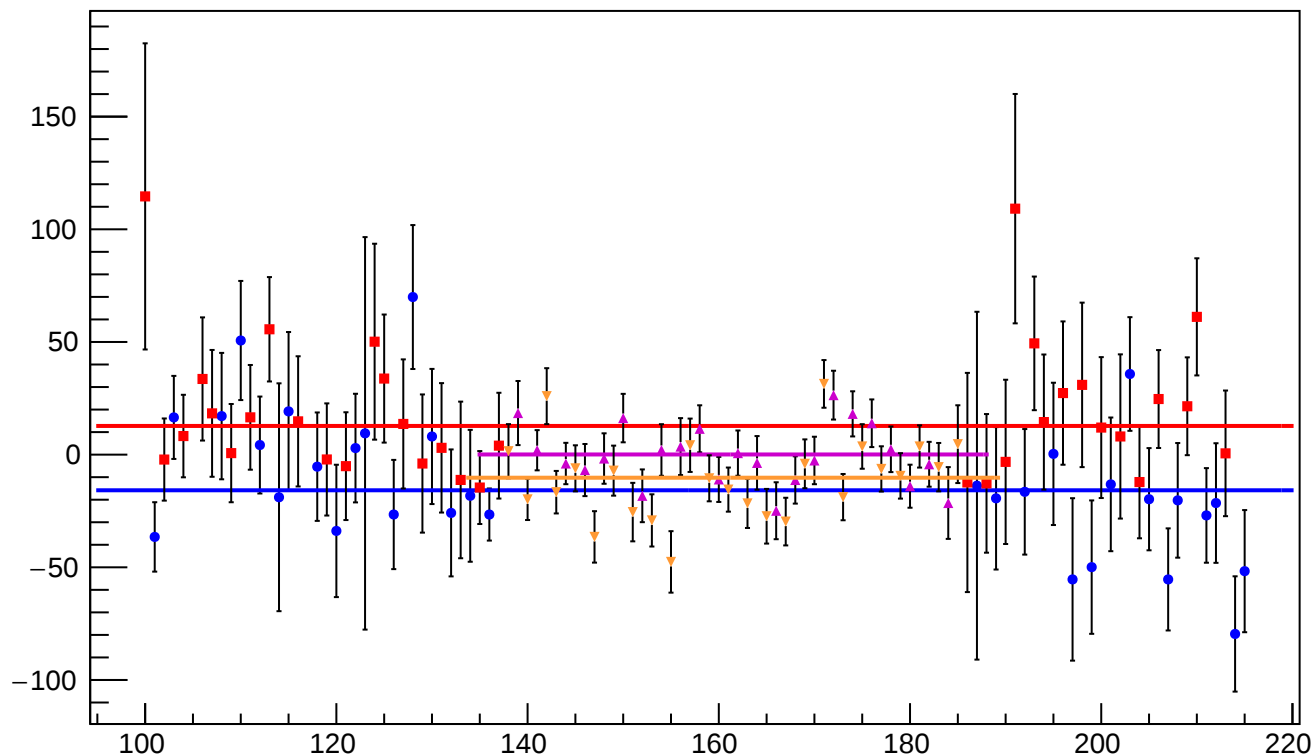


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -15.816 ± 4.395

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

Left Out: -10.238 ± 2.170

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

Right Out: 12.736 ± 4.569

$\chi^2/\text{NDF}: 25.3/33$

Left In: 0.080 ± 2.251

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

Left: -5.266 ± 1.562

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

Right: -2.092 ± 3.167

$\chi^2/\text{NDF}: 88.7/65$

In: -3.222 ± 2.003

$\chi^2/\text{NDF}: 83.4/54$

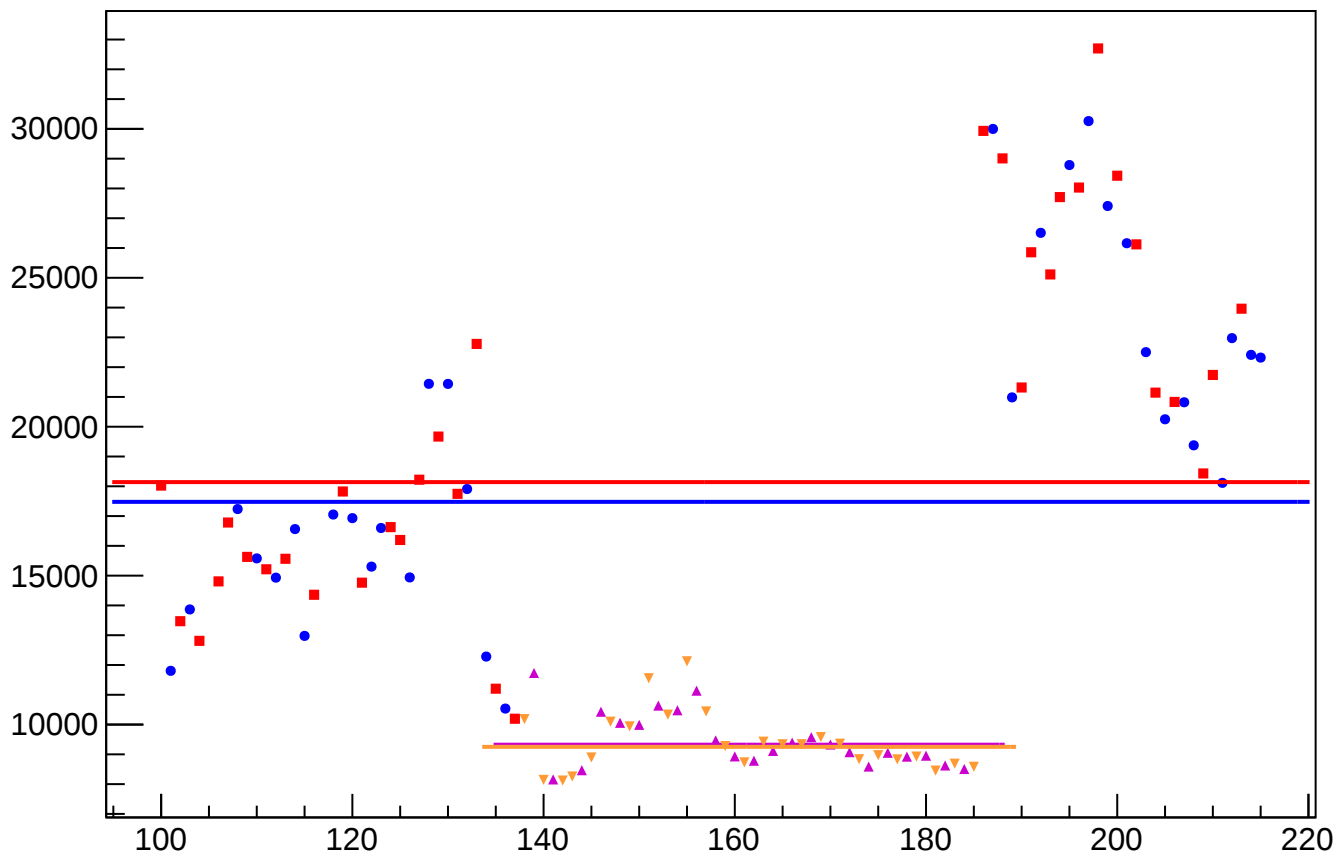
Out: -6.008 ± 1.960

$\chi^2/\text{NDF}: 104.1/58$

All: -4.645 ± 1.401

$\chi^2/\text{NDF}: 188.4/113$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17477.286+/-3.108 χ^2/NDF : 2892071.4/31

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

Right Out: 18140.379+/-3.230 χ^2/NDF : 2894505.1/33

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

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

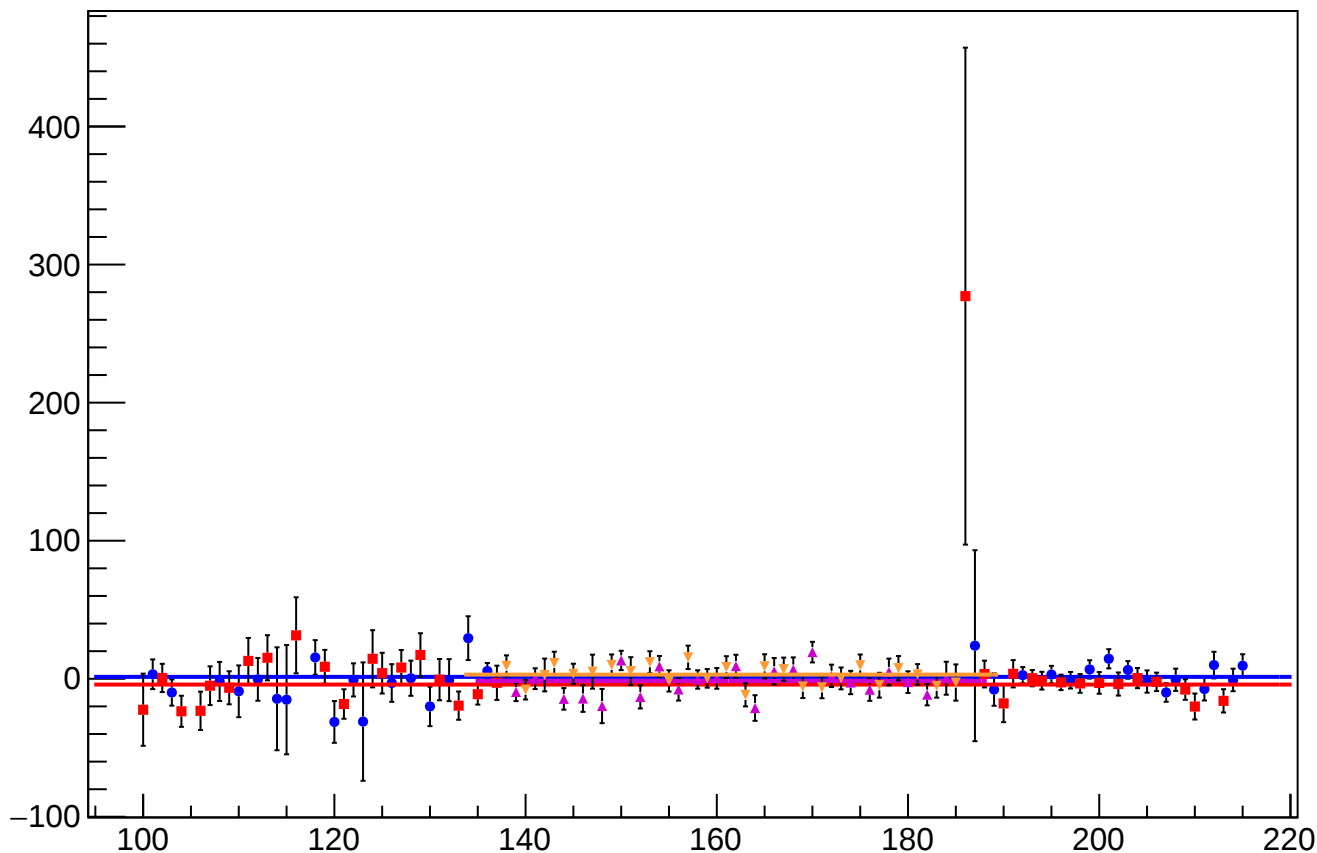
Right: 17796.018+/-2.240 χ^2/NDF : 5808457.5/65

In: 11017.624+/-1.416 χ^2/NDF : 8620486.2/54

Out: 10888.337+/-1.386 χ^2/NDF : 9403731.6/58

All: 10951.581+/-0.991 χ^2/NDF : 18028473.5/117

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.383 ± 1.641 χ^2/NDF : 26.6/31

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

Right Out: -4.176 ± 1.657 χ^2/NDF : 30.8/33

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

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

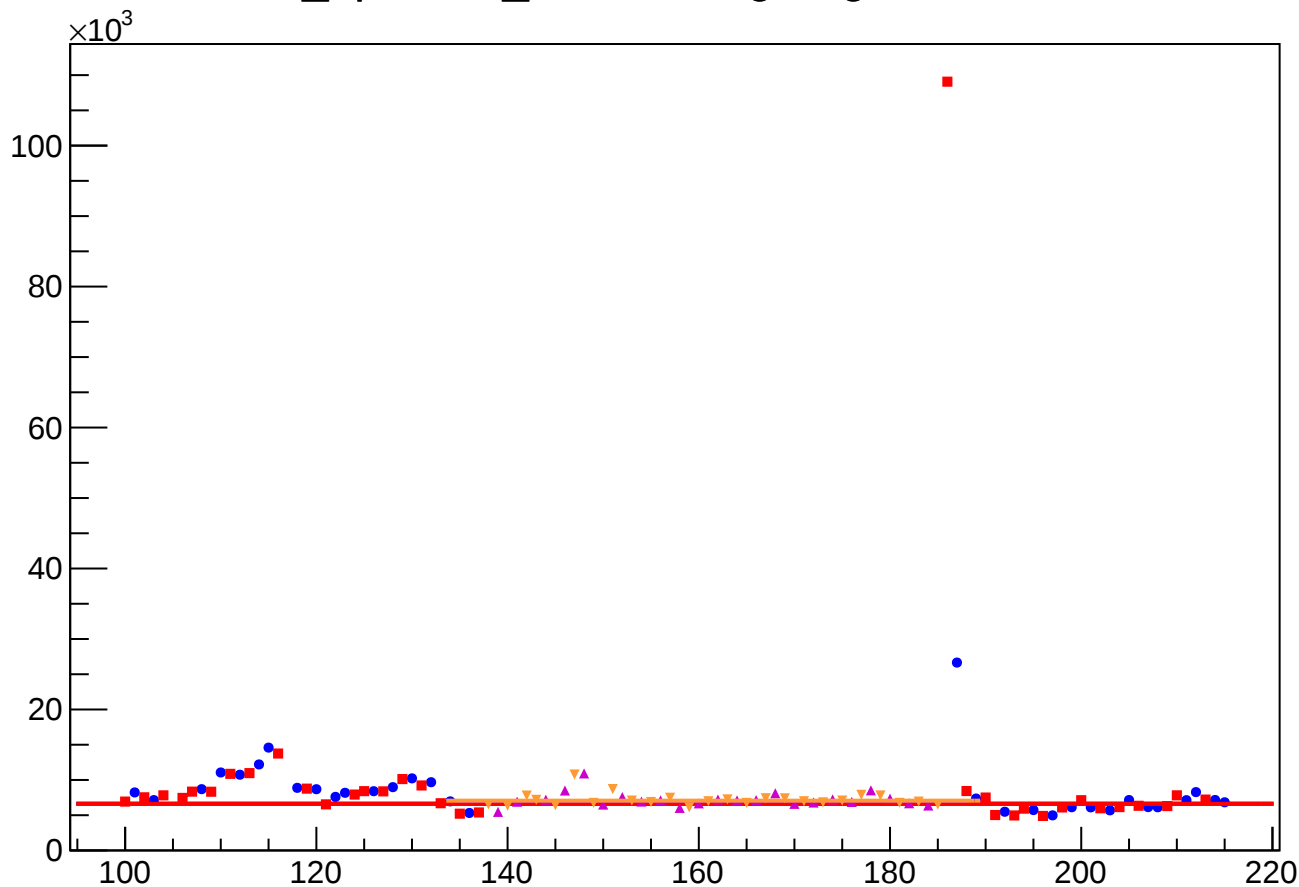
Right: -1.370 ± 1.166 χ^2/NDF : 63.1/65

In: -0.048 ± 1.182 χ^2/NDF : 63.7/54

Out: -0.583 ± 1.173 χ^2/NDF : 58.8/58

All: -0.317 ± 0.832 χ^2/NDF : 122.6/113

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6644.130 $\pm$ 1.161 χ^2/NDF : 1612203.0/31

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

Right Out: 6604.575 $\pm$ 1.172 χ^2/NDF : 2151264.8/33

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

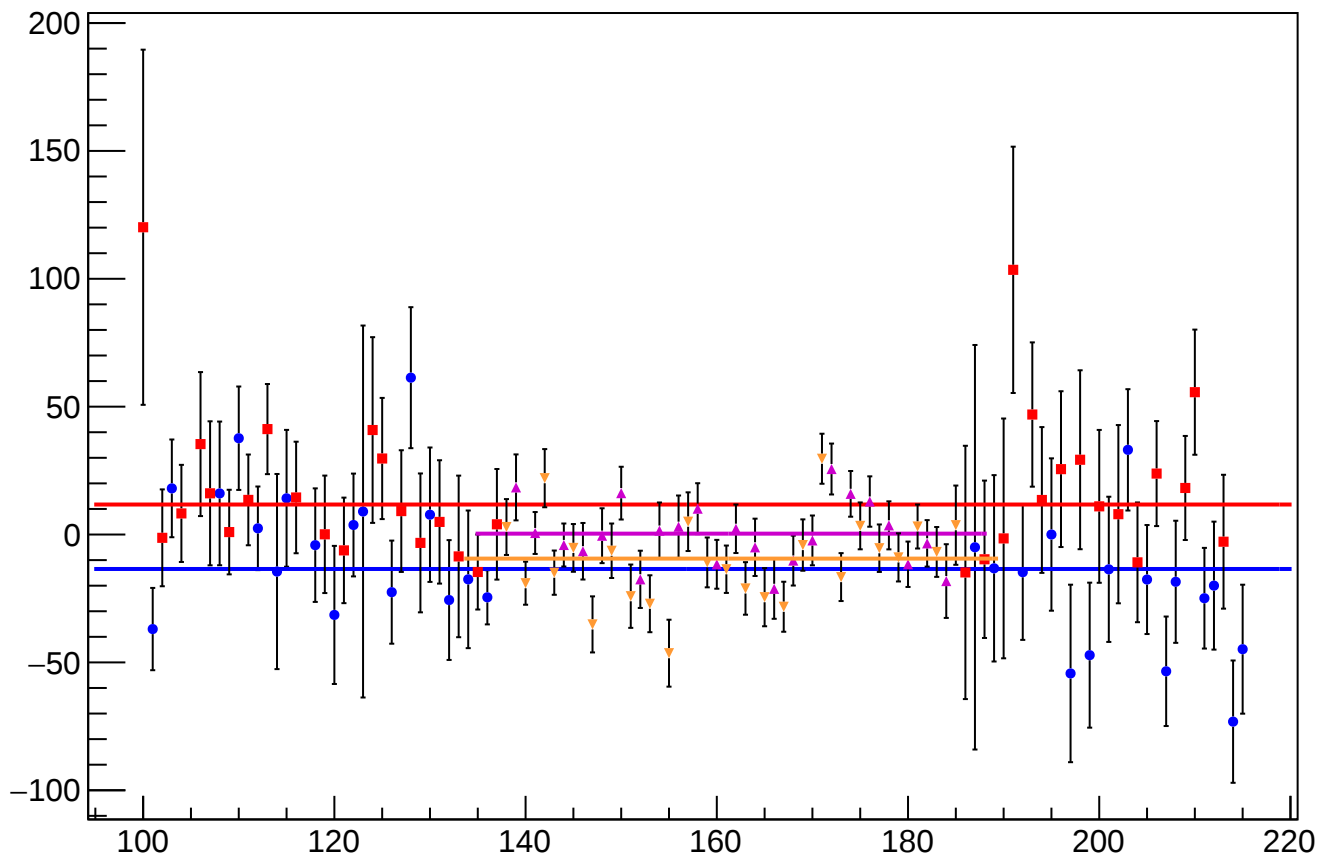
Right: 6624.539 $\pm$ 0.825 χ^2/NDF : 3764043.0/65

In: 6822.575 $\pm$ 0.836 χ^2/NDF : 2186587.9/54

Out: 6834.017 $\pm$ 0.829 χ^2/NDF : 2614942.4/58

All: 6828.339 $\pm$ 0.589 χ^2/NDF : 4801624.8/111

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -13.470 ± 4.024 $\chi^2/\text{NDF}: 44.0/31$

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

Right Out: 11.735 ± 4.142 $\chi^2/\text{NDF}: 24.8/33$

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

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

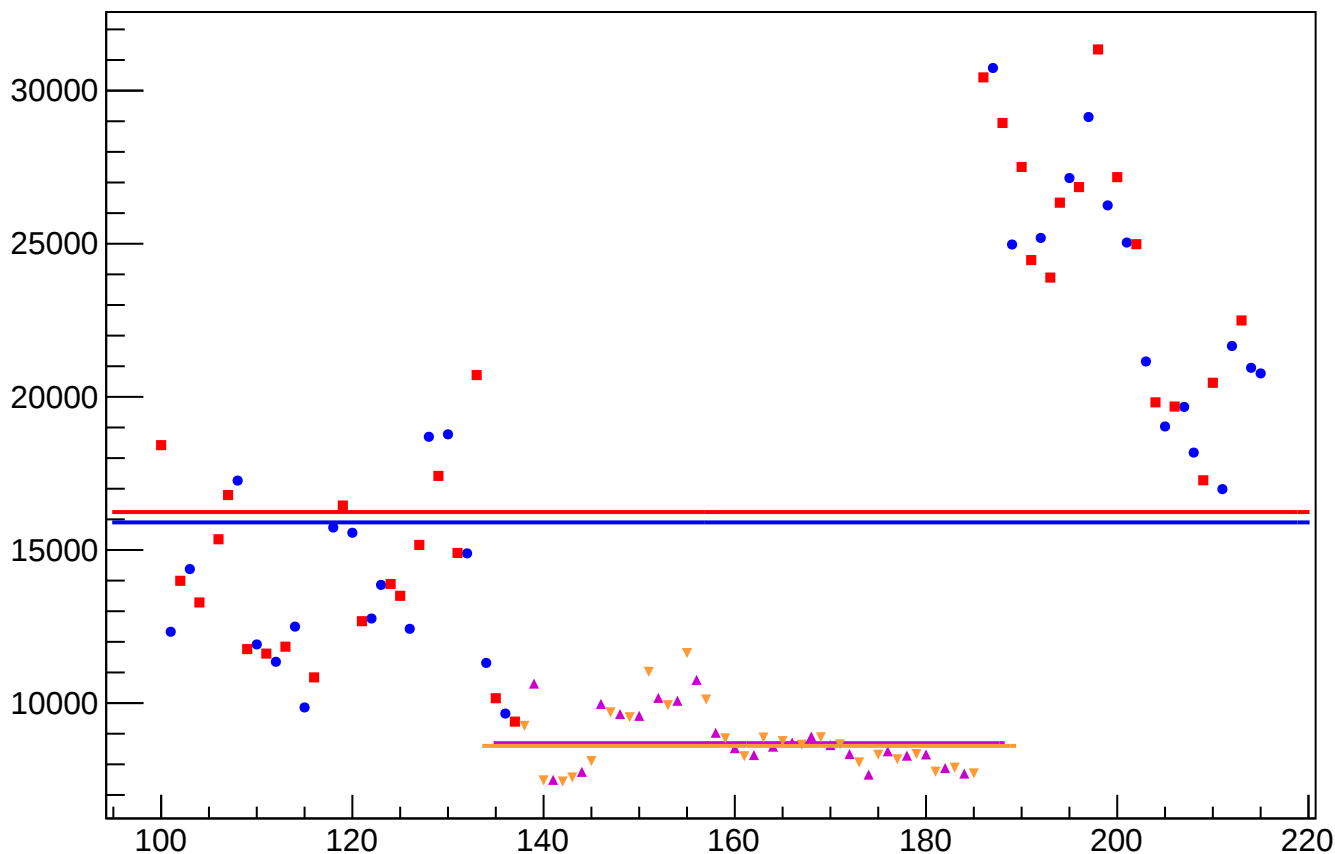
Right: -1.232 ± 2.886 $\chi^2/\text{NDF}: 87.8/65$

In: -2.614 ± 1.862 $\chi^2/\text{NDF}: 83.2/54$

Out: -5.345 ± 1.816 $\chi^2/\text{NDF}: 104.6/58$

All: -4.014 ± 1.300 $\chi^2/\text{NDF}: 188.9/113$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15900.713 $\pm$ 2.846 χ^2 /NDF: 3366143.7/31

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

Right Out: 16238.147 $\pm$ 2.929 χ^2 /NDF: 3672843.2/33

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

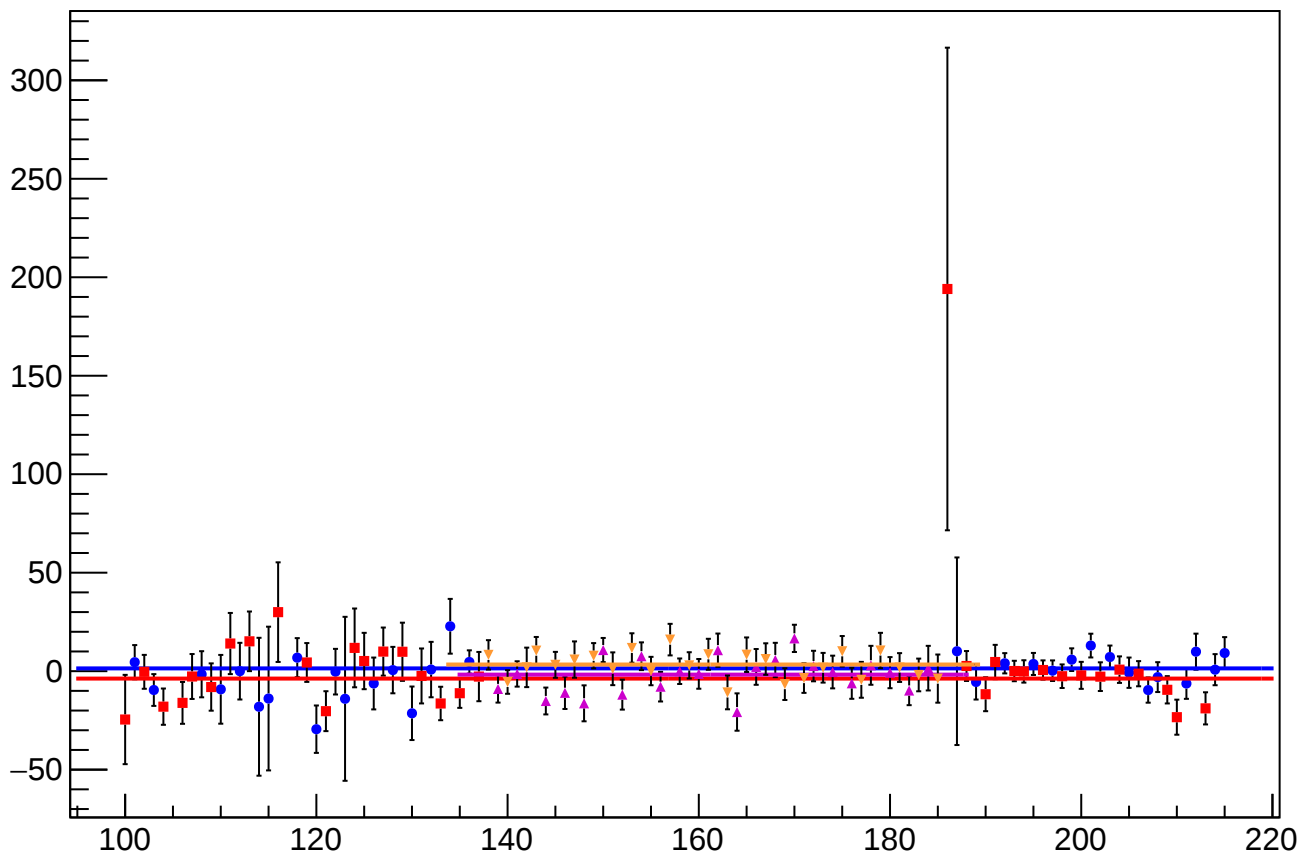
Right: 16064.558 $\pm$ 2.041 χ^2 /NDF: 7045814.4/65

In: 10234.773 $\pm$ 1.317 χ^2 /NDF:8775902.2/54

Out: 10070.386 $\pm$ 1.284 χ^2 /NDF:9601200.5/58

All: 10150.534 $\pm$ 0.919 χ^2 /NDF: 18385089.9

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.408 ± 1.485 χ^2/NDF : 28.3/31

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

Right Out: -3.764 ± 1.474 χ^2/NDF : 35.8/33

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

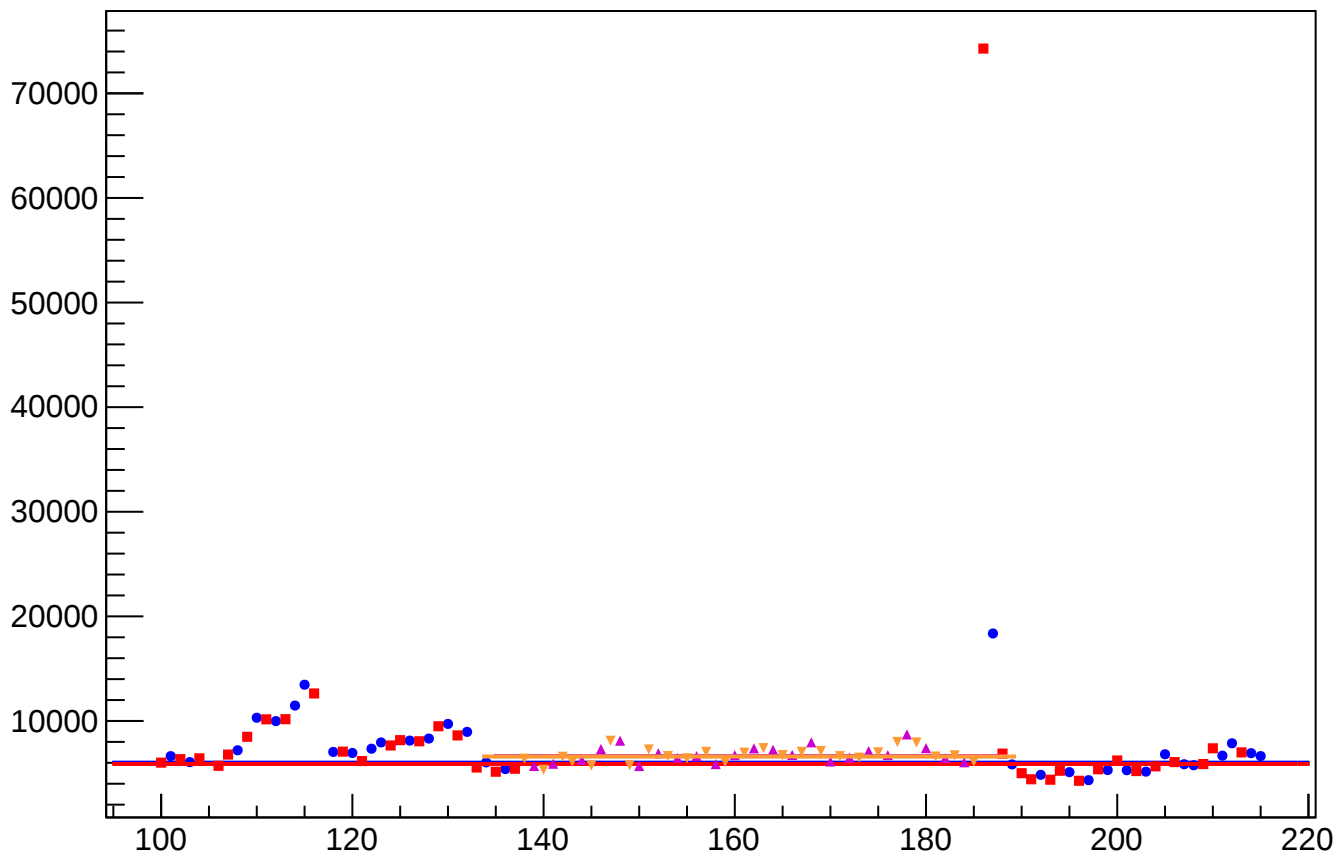
Right: -1.198 ± 1.046 χ^2/NDF : 70.2/65

In: -0.050 ± 1.091 χ^2/NDF : 63.9/54

Out: -0.378 ± 1.069 χ^2/NDF : 64.1/58

All: -0.217 ± 0.763 χ^2/NDF : 128.0/113

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6015.850 $\pm$ 1.050 χ^2/NDF : 1644533.9/31

Left Out: 6603.953 $\pm$ 1.097 χ^2/NDF : 395247.5/24

Right Out: 5888.649 $\pm$ 1.042 χ^2/NDF : 2232452.4/33

Left In: 6637.155 $\pm$ 1.136 χ^2/NDF : 415547.5/22

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

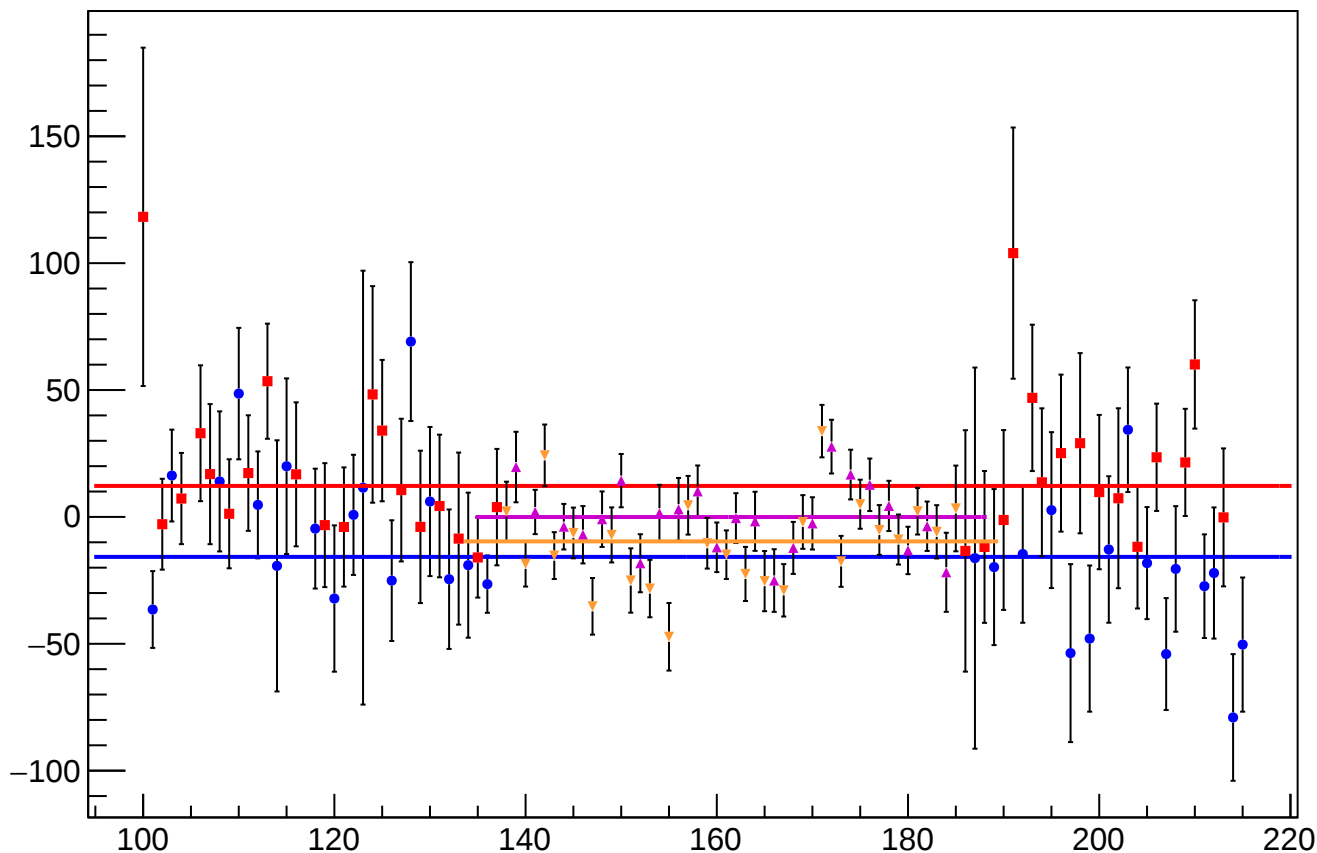
Right: 5951.767 $\pm$ 0.740 χ^2/NDF : 3884376.4/65

In: 6302.086 $\pm$ 0.771 χ^2/NDF : 2221308.7/54

Out: 6227.932 $\pm$ 0.756 χ^2/NDF : 2851088.2/58

All: 6264.254 $\pm$ 0.540 χ^2/NDF : 5077112.9/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -15.753 $\pm$ 4.297 χ^2/NDF : 43.1/31

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

Right Out: 12.214 $\pm$ 4.467 χ^2/NDF : 25.5/33

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

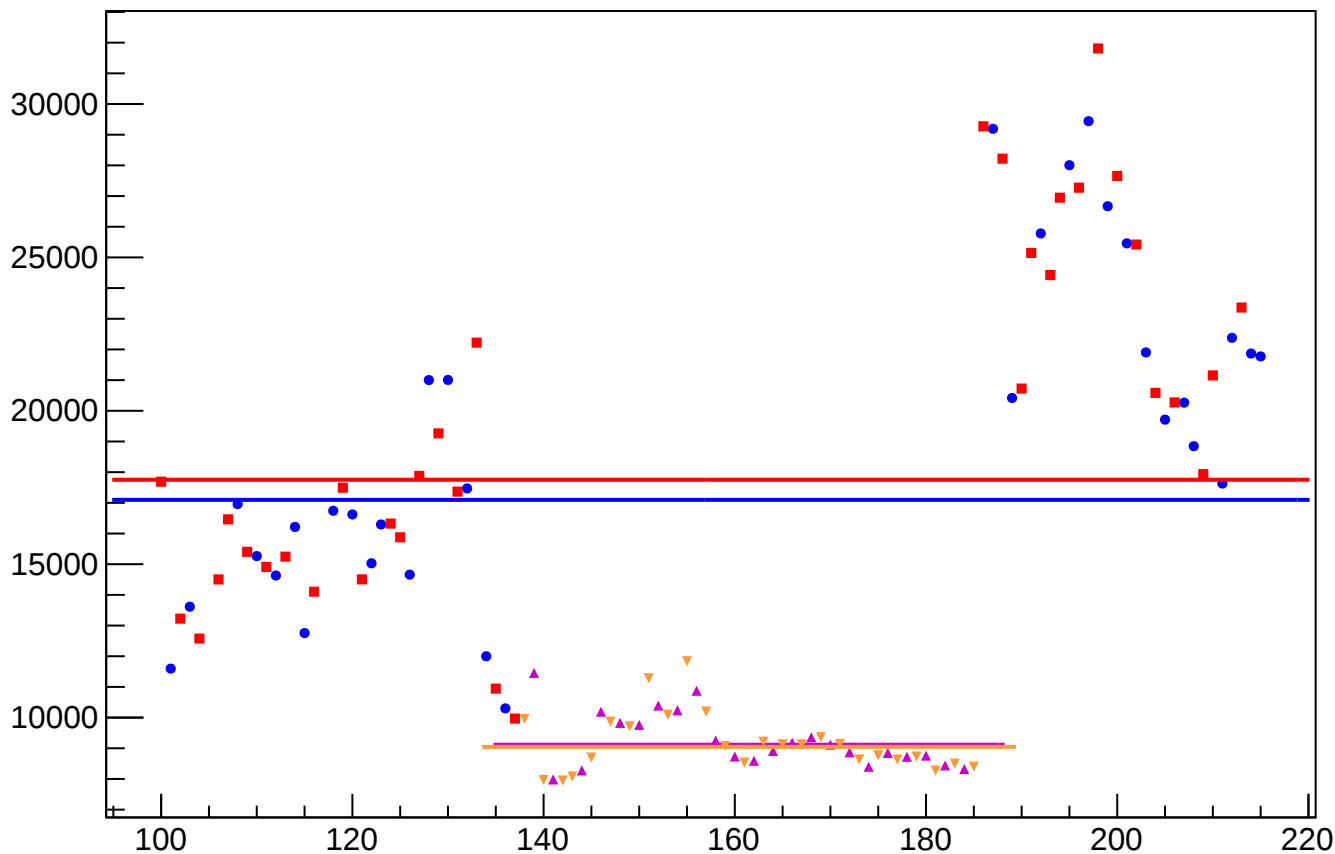
Right: -2.314 $\pm$ 3.097 χ^2/NDF : 89.0/65

In: -3.306 $\pm$ 1.958 χ^2/NDF : 84.5/54

Out: -5.617 $\pm$ 1.917 χ^2/NDF : 104.9/58

All: -4.487 $\pm$ 1.370 χ^2/NDF : 190.1/113

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17097.537 $\pm$ 3.038 χ^2 /NDF: 2845441.4/31

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

Right Out: 17752.563 $\pm$ 3.159 χ^2 /NDF: 2843327.8/33

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

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

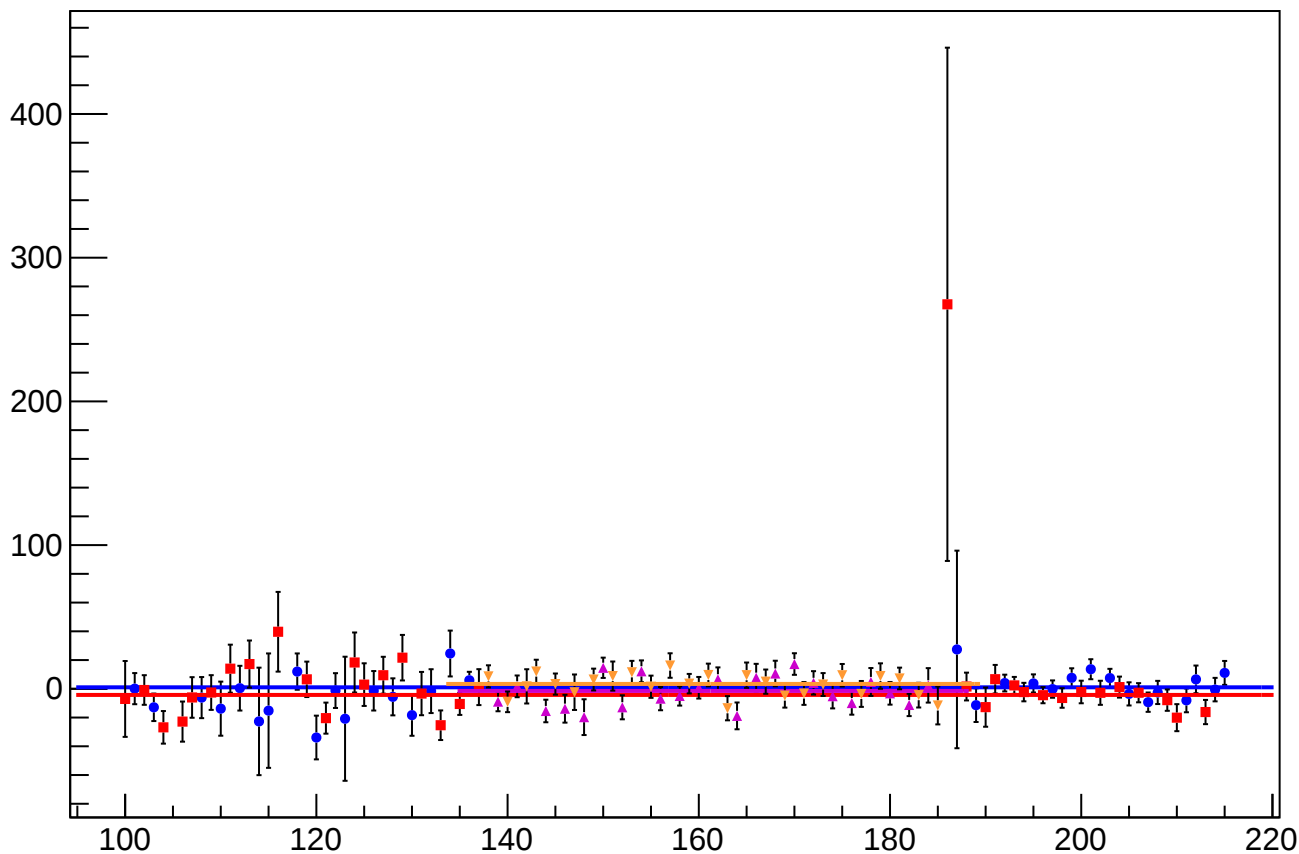
Right: 17412.299 $\pm$ 2.190 χ^2 /NDF: 5711106.6/65

In: 10773.976 $\pm$ 1.385 χ^2 /NDF:8586198.9/54

Out: 10648.455 $\pm$ 1.355 χ^2 /NDF:9370816.9/58

All: 10709.863 $\pm$ 0.969 χ^2 /NDF: 17961212.7

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.035 ± 1.646 χ^2/NDF : 27.8/31

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

Right Out: -4.262 ± 1.663 χ^2/NDF : 36.1/33

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

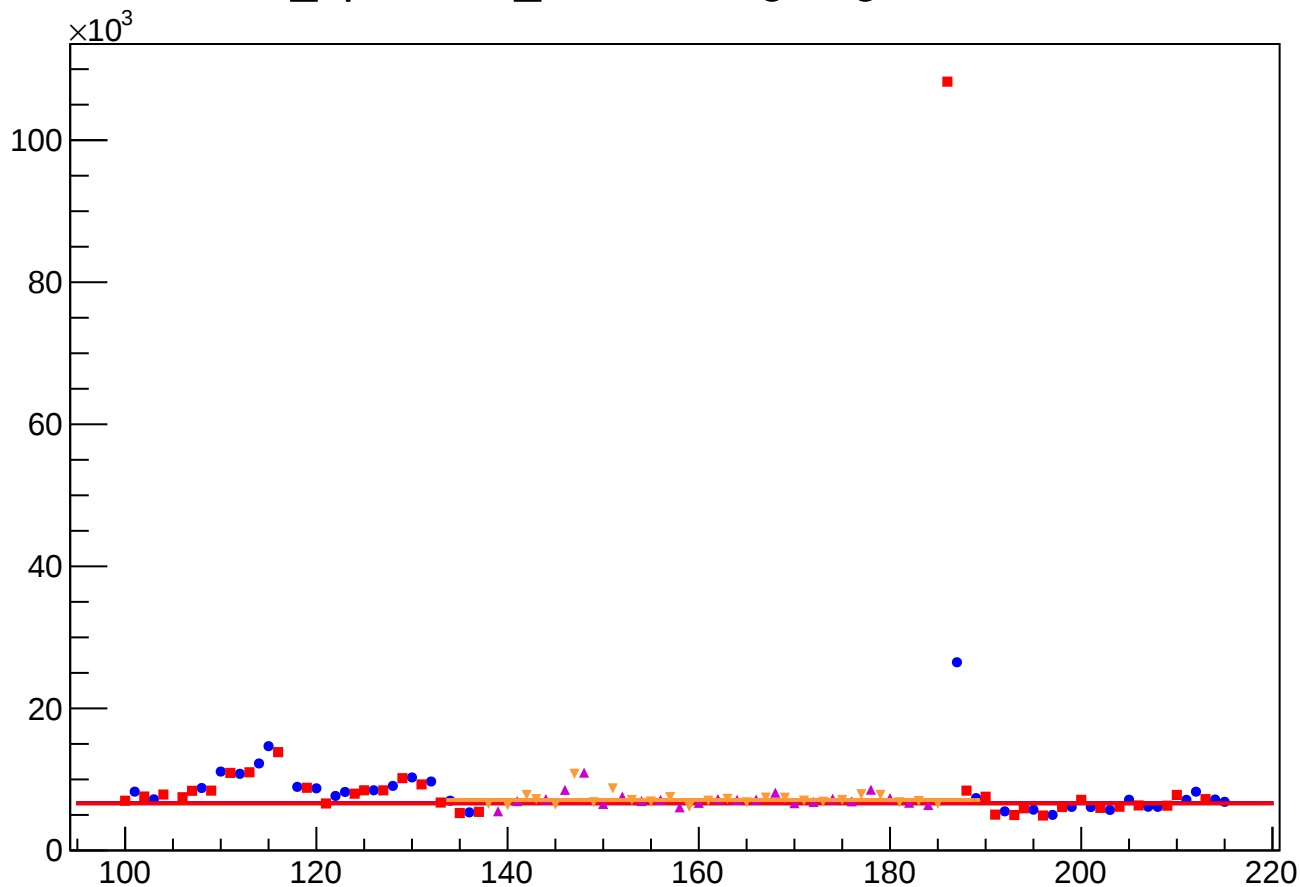
Right: -1.587 ± 1.170 χ^2/NDF : 69.1/65

In: -0.174 ± 1.186 χ^2/NDF : 65.7/54

Out: -0.449 ± 1.178 χ^2/NDF : 66.1/58

All: -0.313 ± 0.836 χ^2/NDF : 131.8/113

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6664.226 $\pm$ 1.164 χ^2/NDF : 1618490.7/31

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

Right Out: 6629.228 $\pm$ 1.176 χ^2/NDF : 2154695.4/33

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

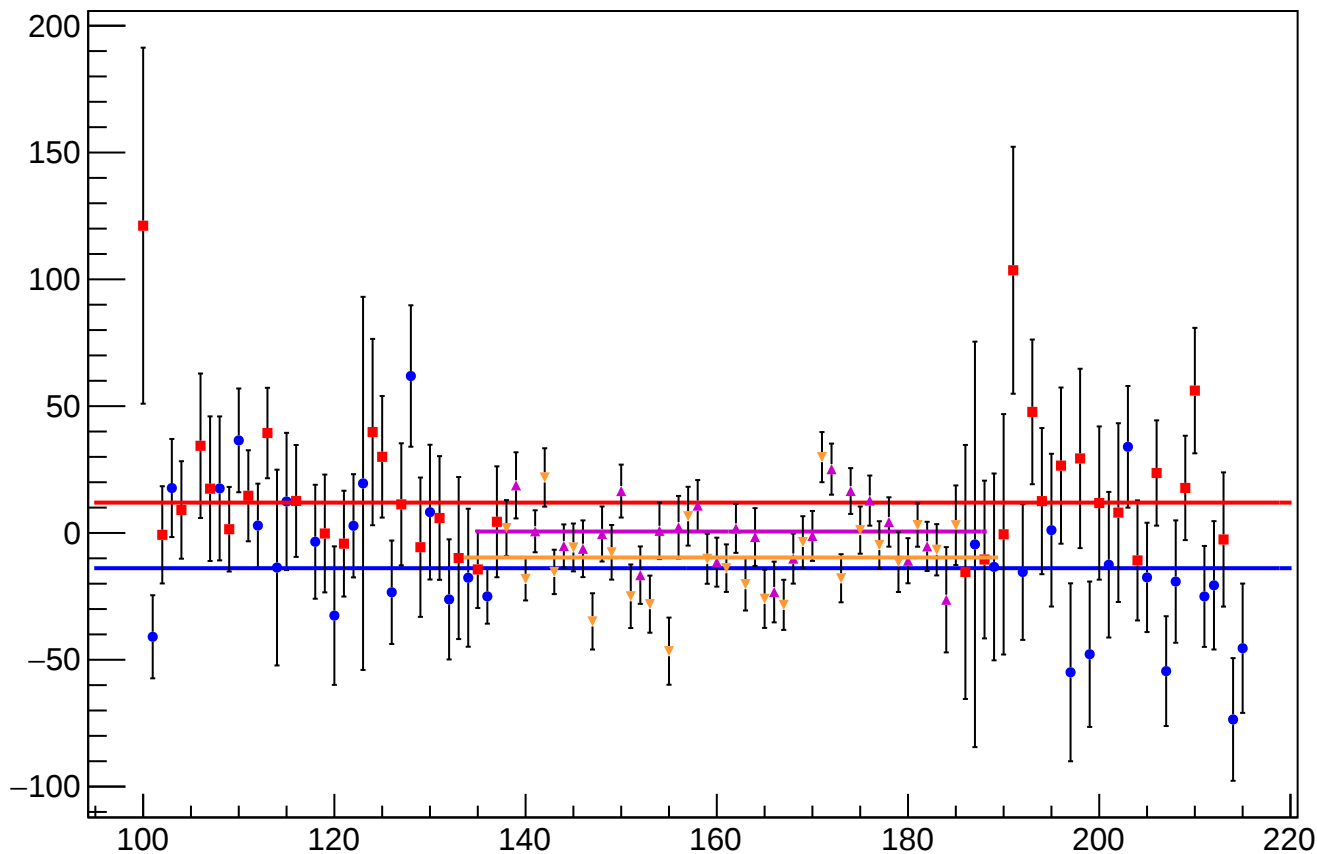
Right: 6646.903 $\pm$ 0.827 χ^2/NDF : 3773633.5/65

In: 6848.454 $\pm$ 0.839 χ^2/NDF : 2187998.2/54

Out: 6862.098 $\pm$ 0.833 χ^2/NDF : 2615312.4/58

All: 6855.325 $\pm$ 0.591 χ^2/NDF : 4803443.8/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -13.889 $\pm$ 4.075 χ^2/NDF : 44.5/31

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

Right Out: 11.972 $\pm$ 4.197 χ^2/NDF : 23.7/33

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

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

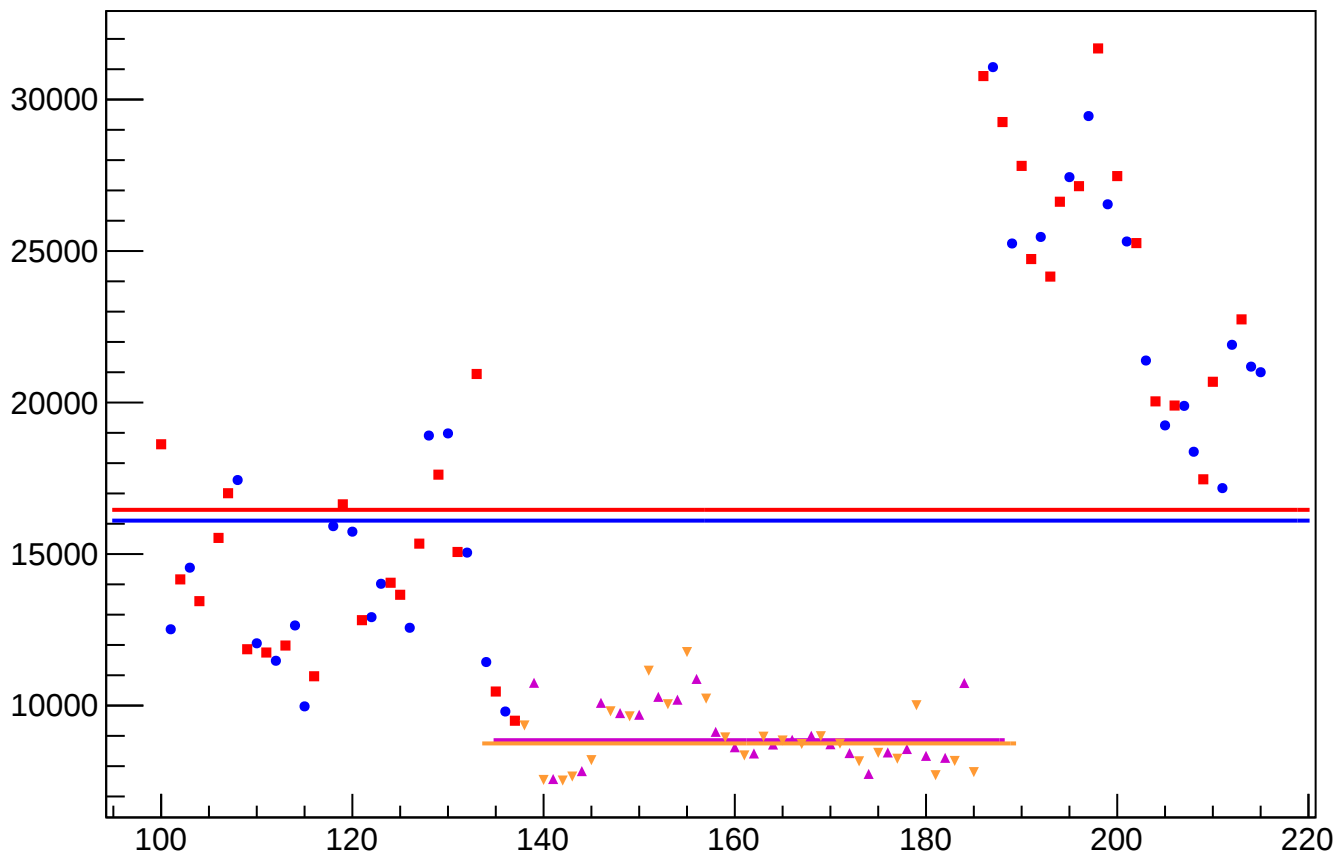
Right: -1.340 $\pm$ 2.924 χ^2/NDF : 87.7/65

In: -2.569 $\pm$ 1.897 χ^2/NDF : 84.1/54

Out: -5.467 $\pm$ 1.850 χ^2/NDF : 103.0/58

All: -4.054 $\pm$ 1.324 χ^2/NDF : 188.3/113

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16103.393 $\pm$ 2.881 χ^2 /NDF: 3342251.0/31

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

Right Out: 16459.344 $\pm$ 2.968 χ^2 /NDF: 3634504.1/33

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

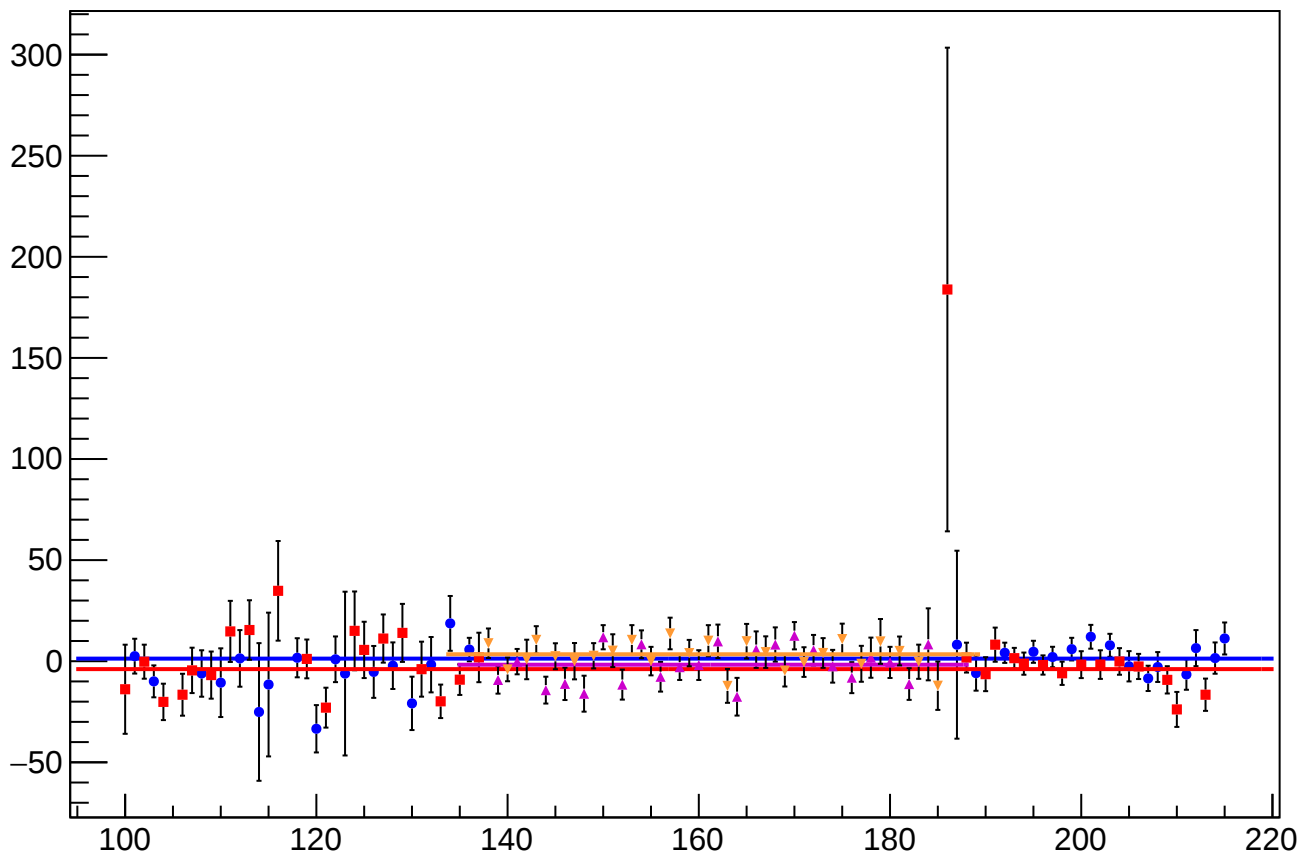
Right: 16276.117 $\pm$ 2.067 χ^2 /NDF: 6984160.2/65

In: 10427.965 $\pm$ 1.342 χ^2 /NDF: 8657301.3/54

Out: 10247.774 $\pm$ 1.308 χ^2 /NDF: 9535249.5/58

All: 10335.588 $\pm$ 0.936 χ^2 /NDF: 18201800.4

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.282 $\pm$ 1.449 χ^2/NDF : 30.8/31

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

Right Out: -3.910 $\pm$ 1.437 χ^2/NDF : 39.8/33

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

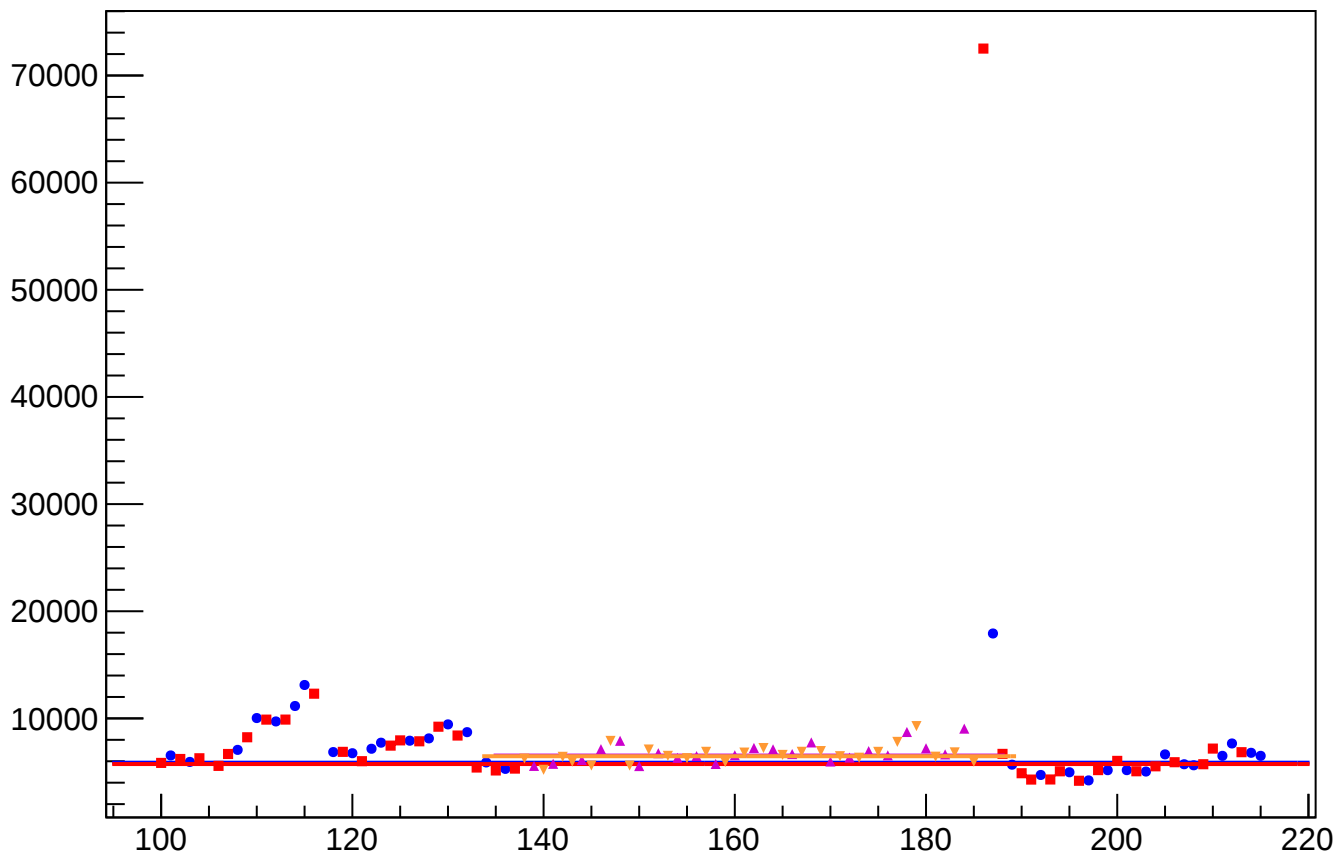
Right: -1.335 $\pm$ 1.020 χ^2/NDF : 77.1/65

In: -0.090 $\pm$ 1.070 χ^2/NDF : 66.4/54

Out: -0.458 $\pm$ 1.046 χ^2/NDF : 68.3/58

All: -0.278 $\pm$ 0.748 χ^2/NDF : 134.8/113

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5866.800+/-1.025 χ^2/NDF : 1652633.1/31

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

Right Out: 5738.923+/-1.016 χ^2/NDF : 2223839.0/33

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

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

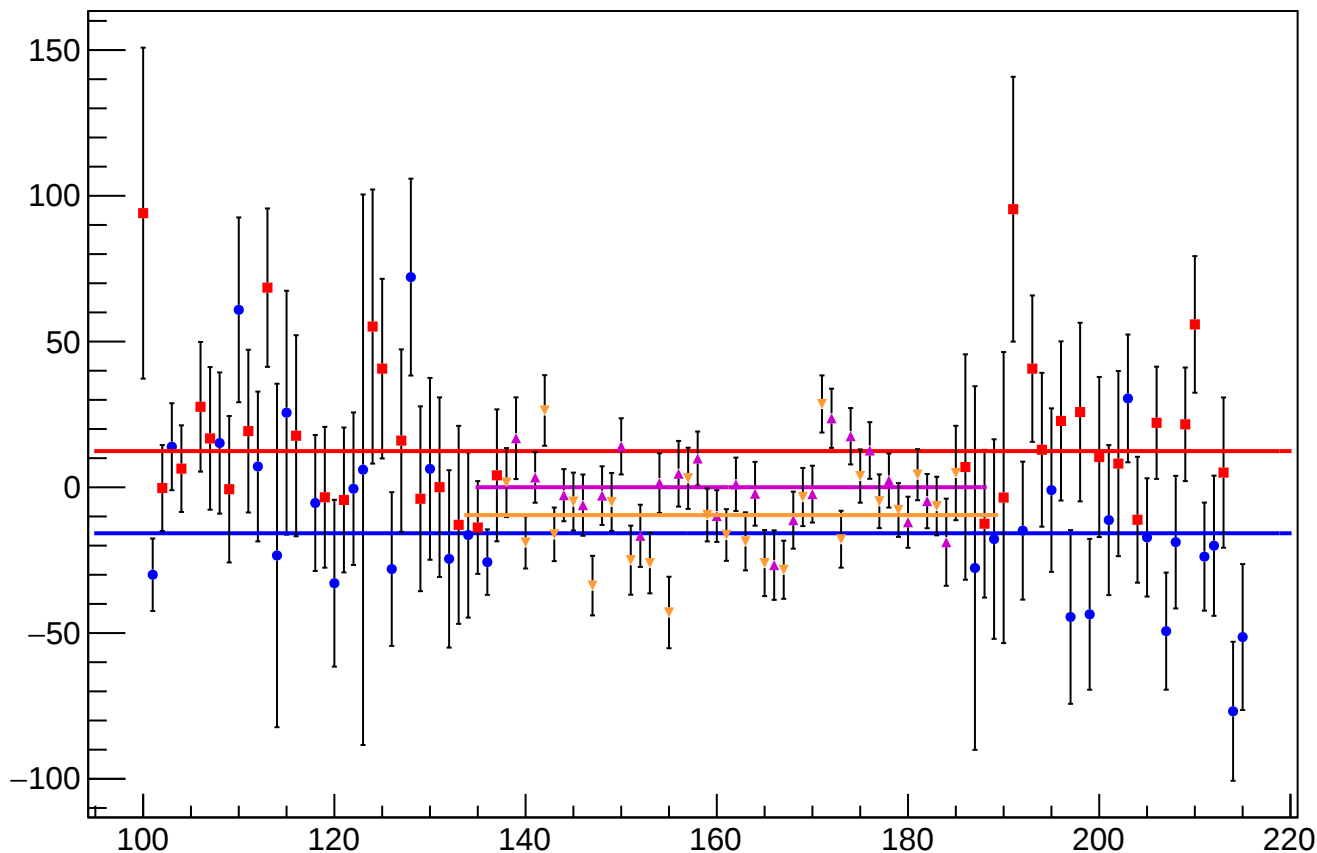
Right: 5802.328+/-0.722 χ^2/NDF : 3884324.6/65

In: 6169.009+/-0.756 χ^2/NDF : 2308474.6/54

Out: 6082.084+/-0.740 χ^2/NDF : 2953623.3/58

All: 6124.574+/-0.529 χ^2/NDF : 5268848.6/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -15.761 ± 4.100 $\chi^2/\text{NDF}: 42.4/31$

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

Right Out: 12.422 ± 4.282 $\chi^2/\text{NDF}: 25.7/33$

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

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

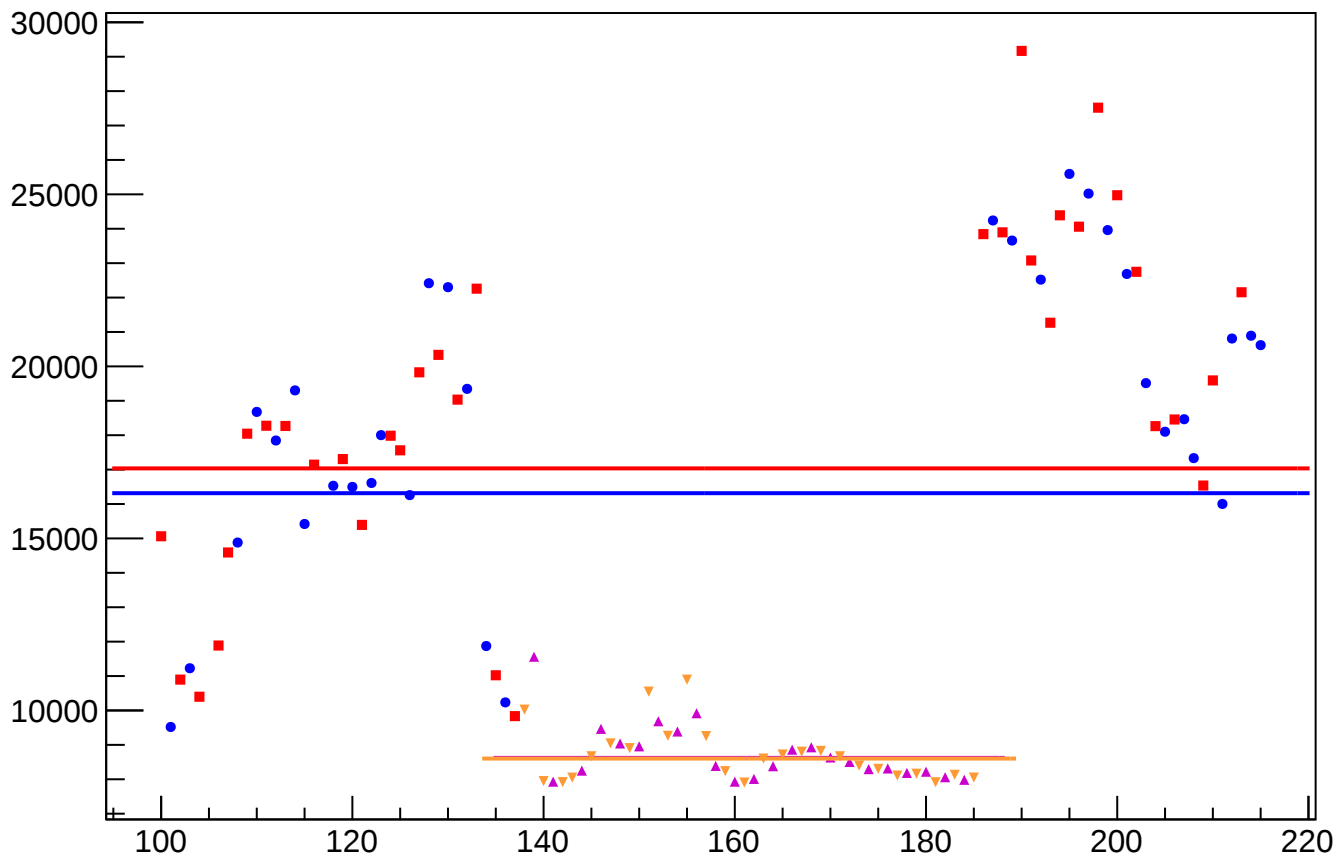
Right: -2.283 ± 2.961 $\chi^2/\text{NDF}: 90.7/65$

In: -3.205 ± 1.855 $\chi^2/\text{NDF}: 84.0/54$

Out: -5.549 ± 1.823 $\chi^2/\text{NDF}: 106.8/58$

All: -4.397 ± 1.300 $\chi^2/\text{NDF}: 191.6/113$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16314.708 $\pm$ 2.899 χ^2 /NDF: 2894623.3/31

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

Right Out: 17035.156 $\pm$ 3.028 χ^2 /NDF: 2771620.9/33

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

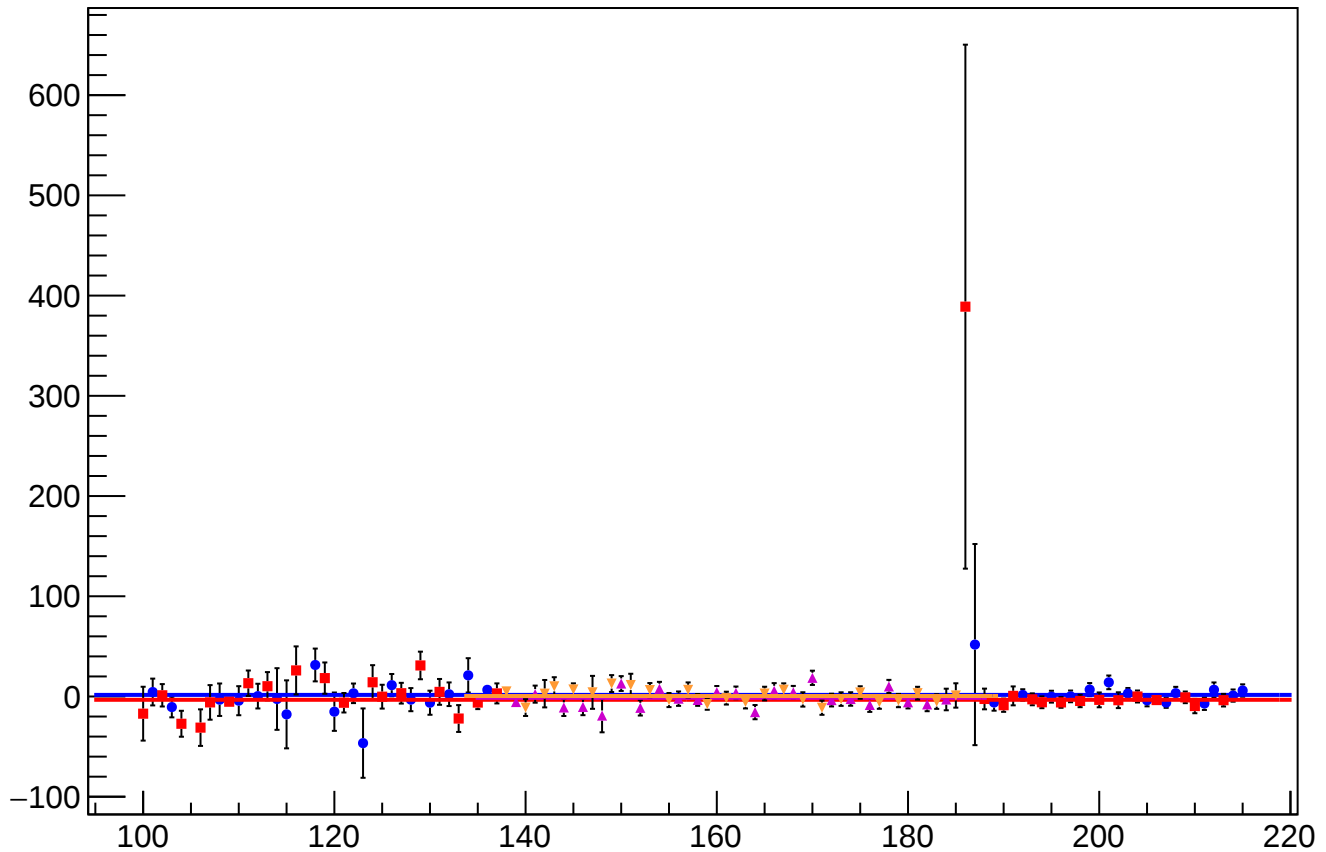
Right: 16659.254 $\pm$ 2.094 χ^2 /NDF: 5695779.1/65

In: 10196.488 $\pm$ 1.312 χ^2 /NDF:8725490.1/54

Out: 10130.890 $\pm$ 1.289 χ^2 /NDF:9370484.9/58

All: 10163.128 $\pm$ 0.919 χ^2 /NDF: 18097247.1

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.592 ± 1.416 $\chi^2/\text{NDF}: 23.2/31$

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

Right Out: -3.291 ± 1.407 $\chi^2/\text{NDF}: 27.9/33$

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

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

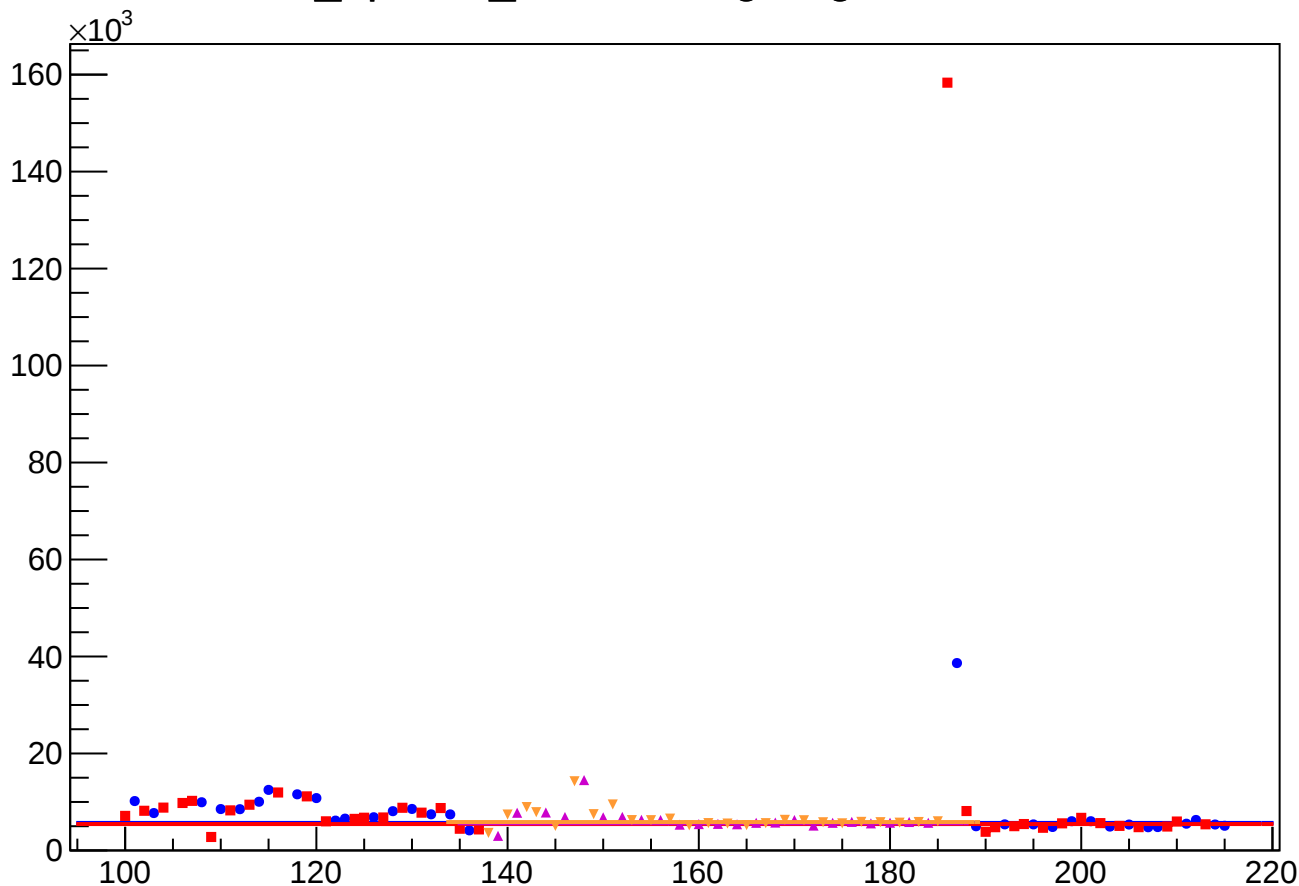
Right: -0.866 ± 0.998 $\chi^2/\text{NDF}: 57.1/65$

In: 0.137 ± 0.998 $\chi^2/\text{NDF}: 58.3/54$

Out: -1.422 ± 0.999 $\chi^2/\text{NDF}: 51.0/58$

All: -0.642 ± 0.706 $\chi^2/\text{NDF}: 110.6/113$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5676.735 $\pm$ 1.001 χ^2/NDF : 2149694.8/31

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

Right Out: 5443.458 $\pm$ 0.995 χ^2/NDF : 3459402.6/33

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

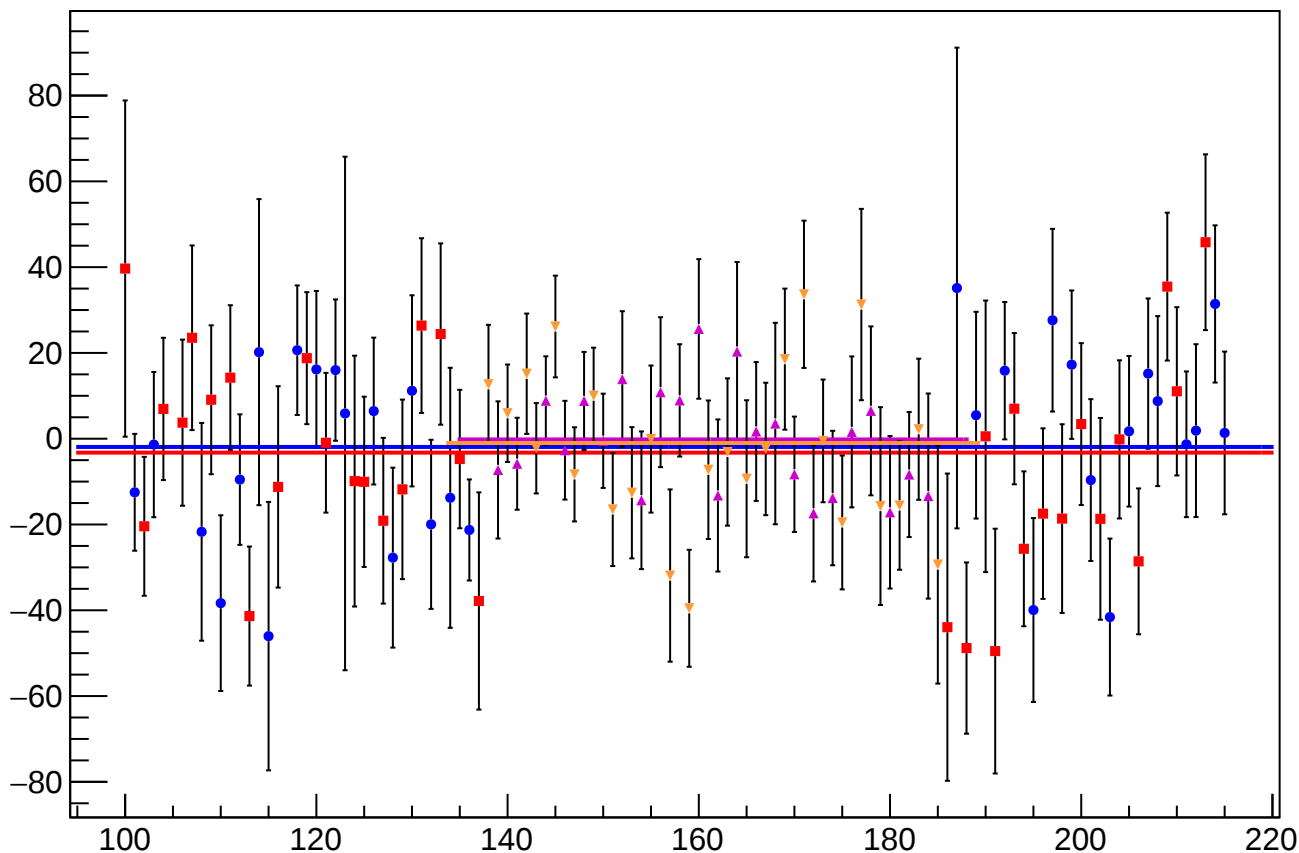
Right: 5559.308 $\pm$ 0.706 χ^2/NDF : 5636414.1/65

In: 5636.525 $\pm$ 0.706 χ^2/NDF : 4242646.9/54

Out: 5649.201 $\pm$ 0.706 χ^2/NDF : 5237089.5/58

All: 5642.855 $\pm$ 0.499 χ^2/NDF : 9479897.5/111

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.920 ± 3.351 χ^2/NDF : 34.8/31

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

Right Out: -3.242 ± 3.374 χ^2/NDF : 46.5/33

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

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

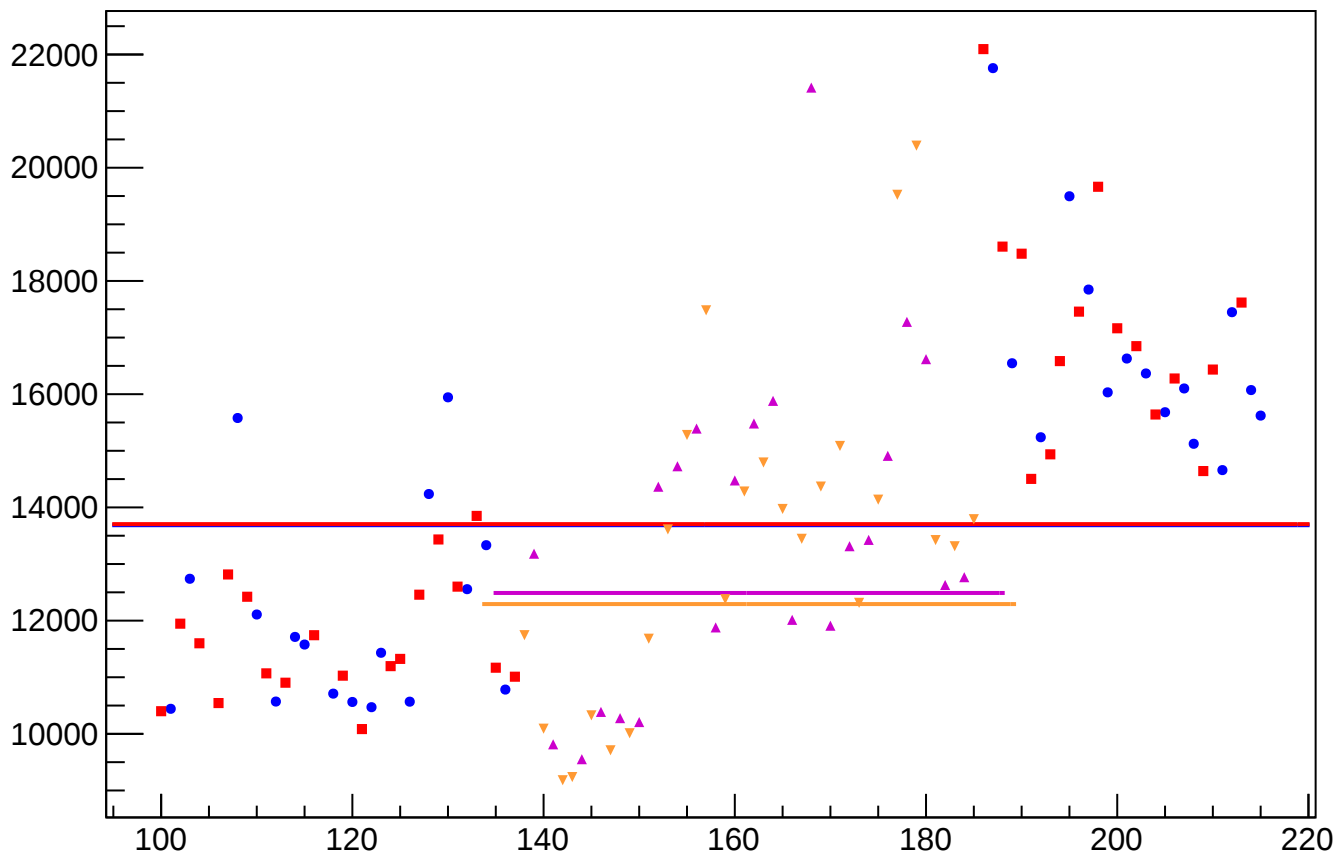
Right: -2.576 ± 2.378 χ^2/NDF : 81.4/65

In: -0.969 ± 2.263 χ^2/NDF : 47.3/54

Out: -1.972 ± 2.217 χ^2/NDF : 80.2/58

All: -1.481 ± 1.584 χ^2/NDF : 127.6/113

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13685.651+/-2.370

χ^2/NDF : 1318784.2/31

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right: 13695.216+/-1.681

χ^2/NDF : 2712901.6/65

Right Out: 13704.910+/-2.386

χ^2/NDF : 1394084.6/33

In: 13034.378+/-1.600

χ^2/NDF : 2812073.9/54

Out: 12902.497+/-1.568

χ^2/NDF : 3095736.6/58

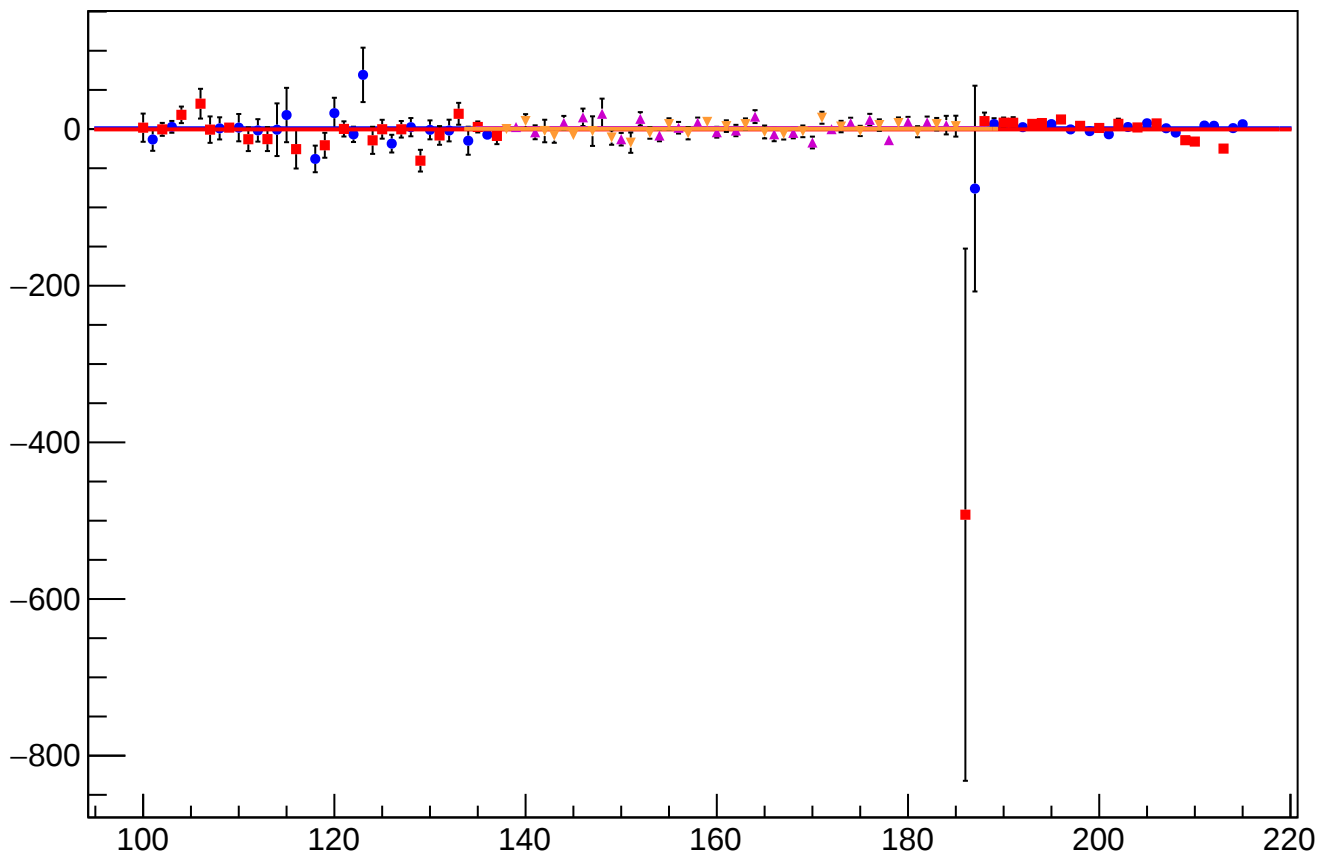
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12967.101+/-1.120

χ^2/NDF : 5911276.6/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.041 $\pm$ 1.161 χ^2/NDF : 29.8/31

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

Right Out: -0.422 $\pm$ 1.198 χ^2/NDF : 90.2/33

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

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

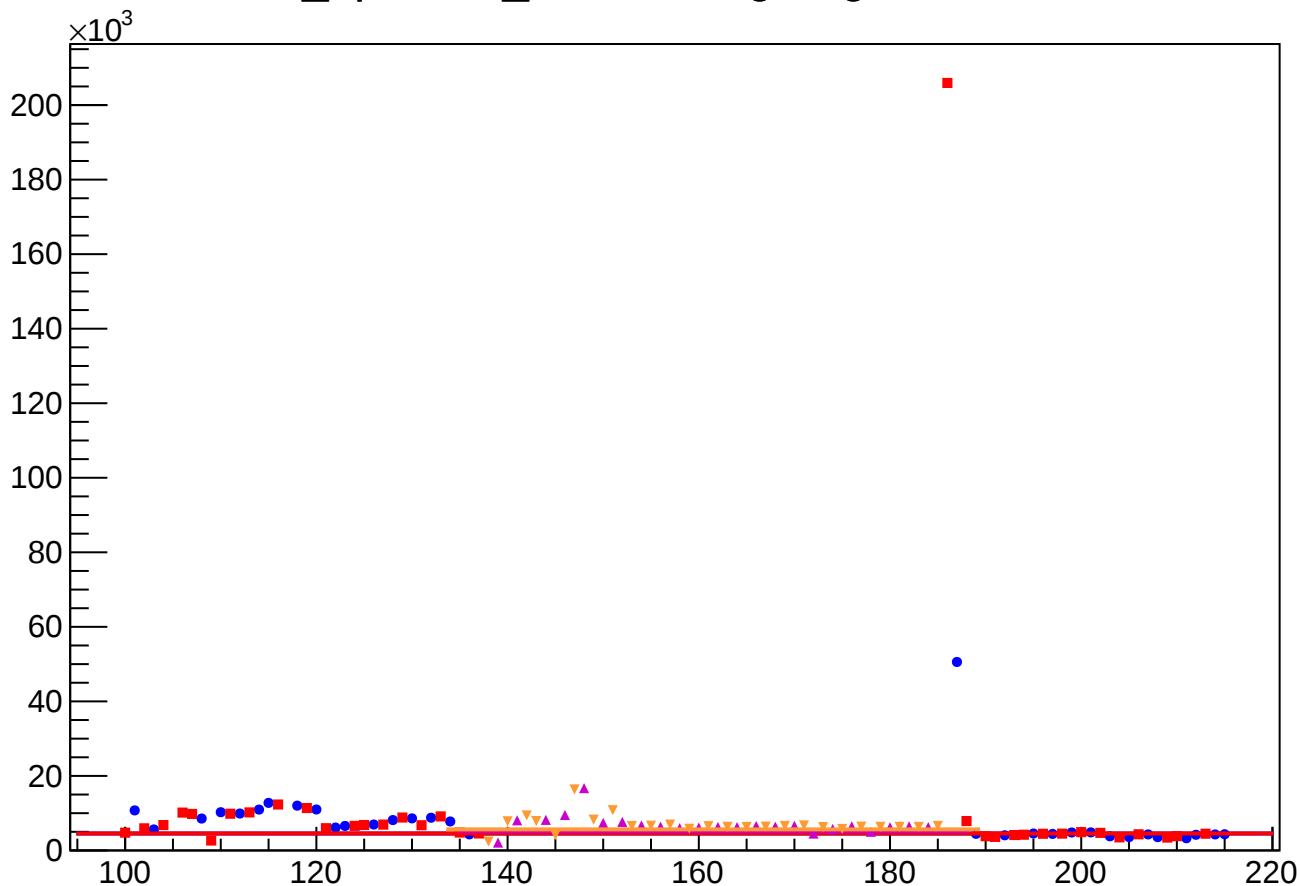
Right: 0.333 $\pm$ 0.834 χ^2/NDF : 120.8/65

In: 1.139 $\pm$ 0.890 χ^2/NDF : 63.8/54

Out: -0.080 $\pm$ 0.920 χ^2/NDF : 109.7/58

All: 0.550 $\pm$ 0.639 χ^2/NDF : 174.4/113

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4544.604 ± 0.821 χ^2/NDF : 3467961.9/31

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

Right Out: 4556.745 ± 0.847 χ^2/NDF : 3954338.6/33

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

Left: 5409.966 ± 0.705 χ^2/NDF : 9587556.1/47

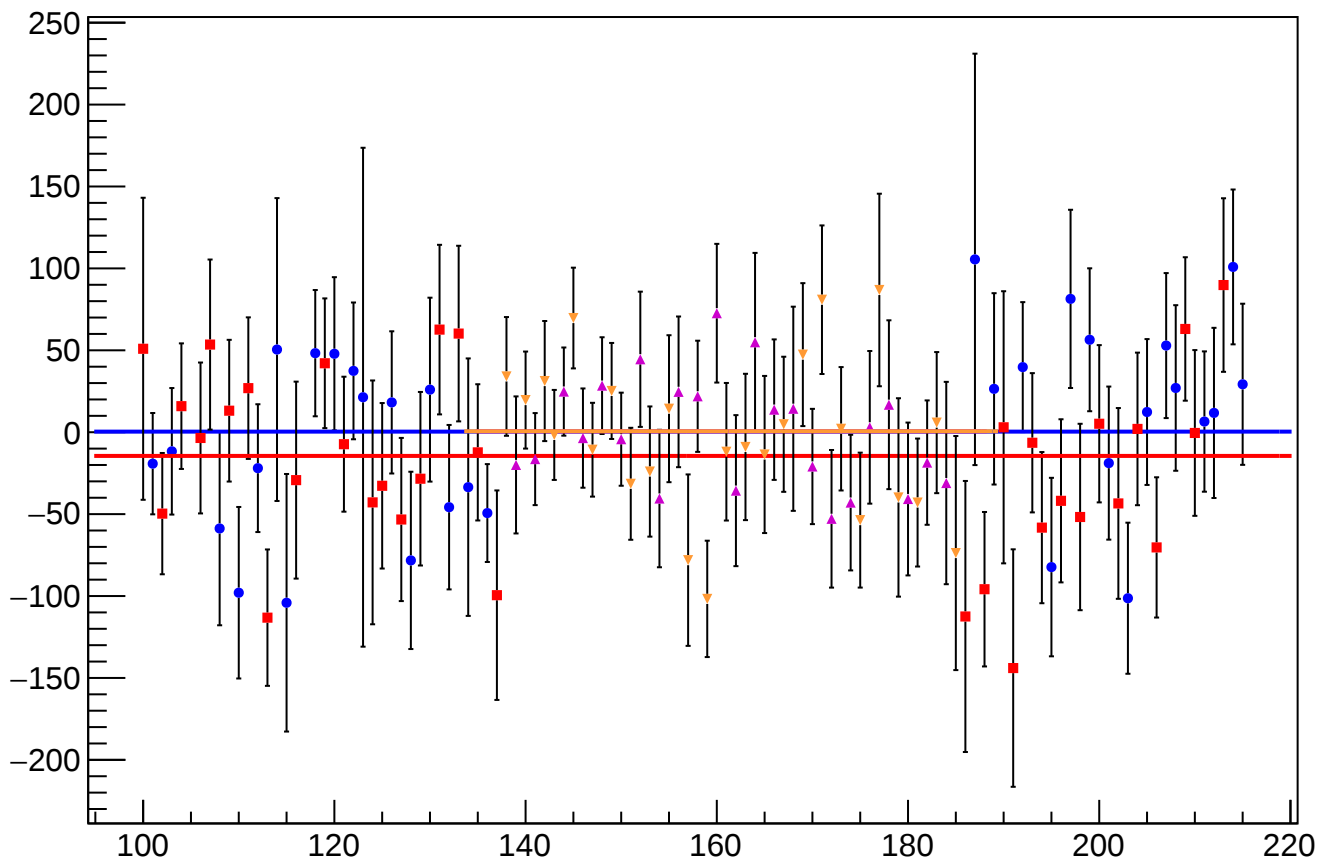
Right: 4550.480 ± 0.589 χ^2/NDF : 7422406.5/65

In: 4806.843 ± 0.629 χ^2/NDF : 9065746.9/54

Out: 5008.296 ± 0.650 χ^2/NDF : 8769757.5/58

All: 4904.242 ± 0.452 χ^2/NDF : 17885078.4/111

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 0.363 ± 8.385 χ^2/NDF : 36.9/31

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

Right Out: -14.464 ± 8.431 χ^2/NDF : 38.4/33

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

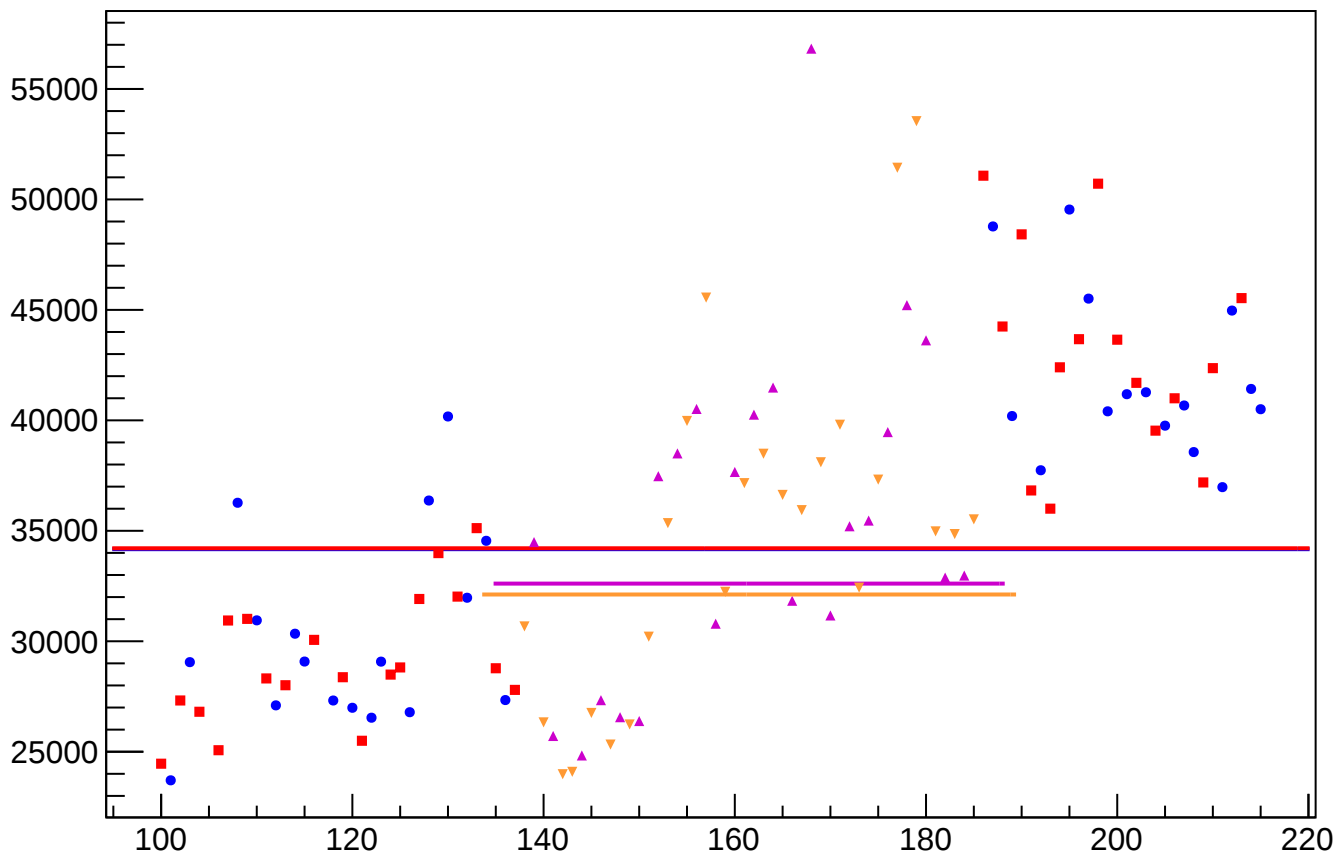
Right: -7.010 ± 5.945 χ^2/NDF : 76.8/65

In: 0.468 ± 5.794 χ^2/NDF : 51.1/54

Out: -6.253 ± 5.682 χ^2/NDF : 71.1/58

All: -2.958 ± 4.057 χ^2/NDF : 123.0/113

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34168.714 $\pm$ 5.929

χ^2/NDF : 1432838.9/31

Left: 32353.483 $\pm$ 3.924

χ^2/NDF : 2939154.5/47

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right: 34188.819 $\pm$ 4.204

χ^2/NDF : 2899522.8/65

Right Out: 34209.146 $\pm$ 5.961

χ^2/NDF : 1466660.8/33

In: 33354.259 $\pm$ 4.097

χ^2/NDF : 2867428.4/54

Out: 33067.319 $\pm$ 4.018

χ^2/NDF : 3070613.6/58

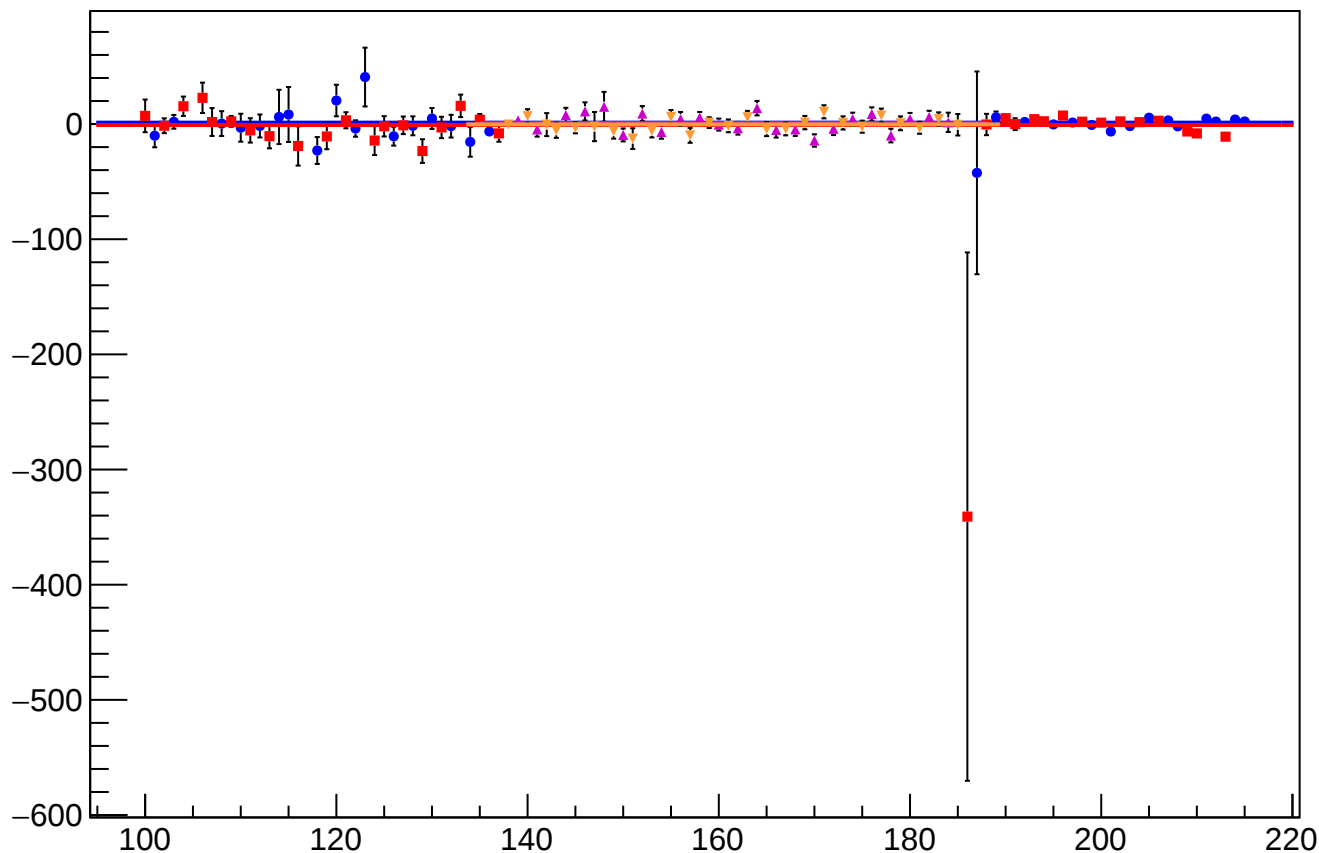
Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

All: 33207.994 $\pm$ 2.868

χ^2/NDF : 5940542.8/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.221 ± 0.674 χ^2/NDF : 38.8/31

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: -0.798 ± 0.745 χ^2/NDF : 73.3/33

Left In: 0.925 ± 1.154 χ^2/NDF : 36.1/22

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

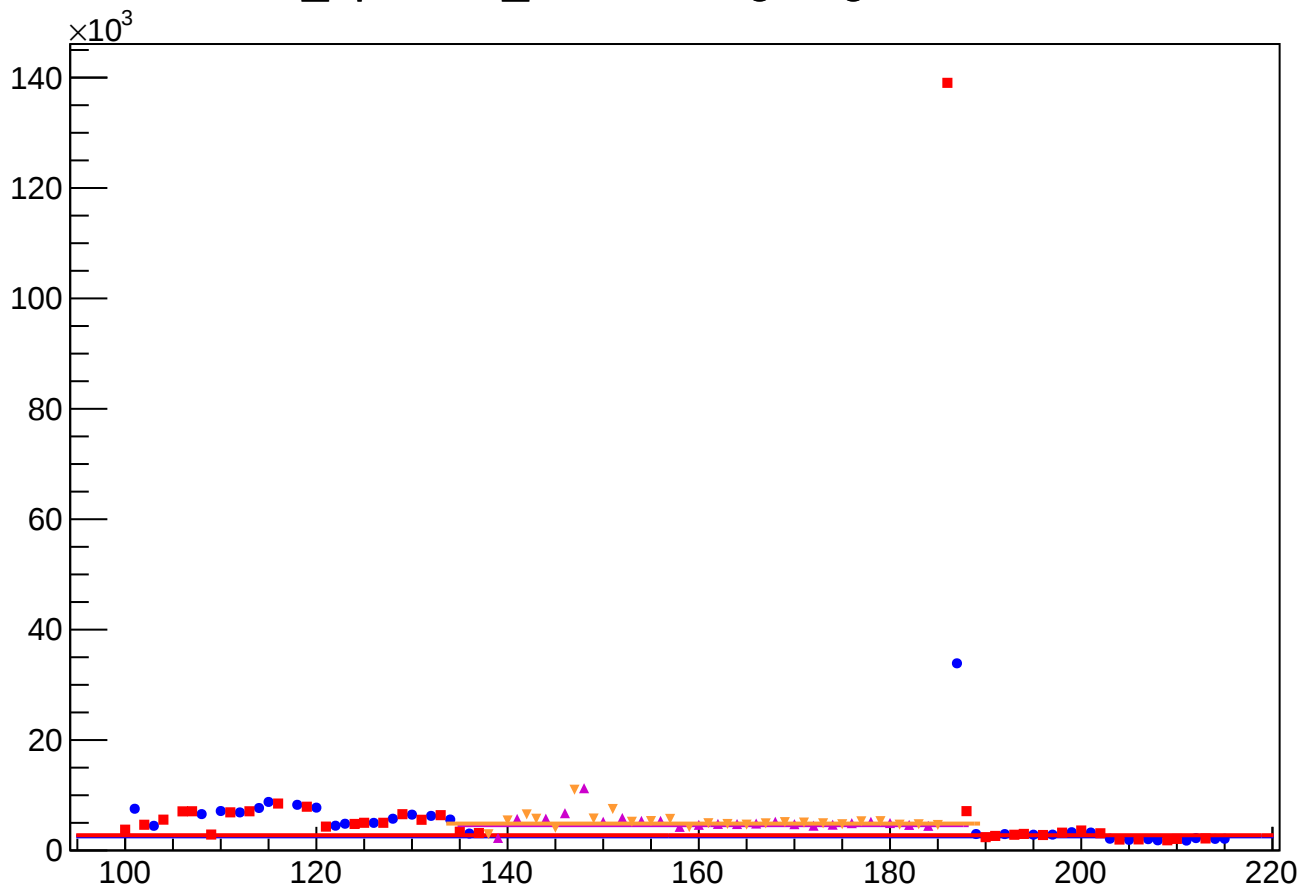
Right: 0.311 ± 0.500 χ^2/NDF : 116.1/65

In: 1.146 ± 0.582 χ^2/NDF : 75.0/54

Out: -0.642 ± 0.629 χ^2/NDF : 91.5/58

All: 0.320 ± 0.427 χ^2/NDF : 170.8/113

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2551.719 $\pm$ 0.477 χ^2/NDF : 5558185.2/31

Left Out: 4866.528 $\pm$ 0.829 χ^2/NDF : 1511486.2/24

Right Out: 2759.796 $\pm$ 0.527 χ^2/NDF : 5825333.9/33

Left In: 4582.193 $\pm$ 0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017 $\pm$ 0.582 χ^2/NDF : 4049906.1/47

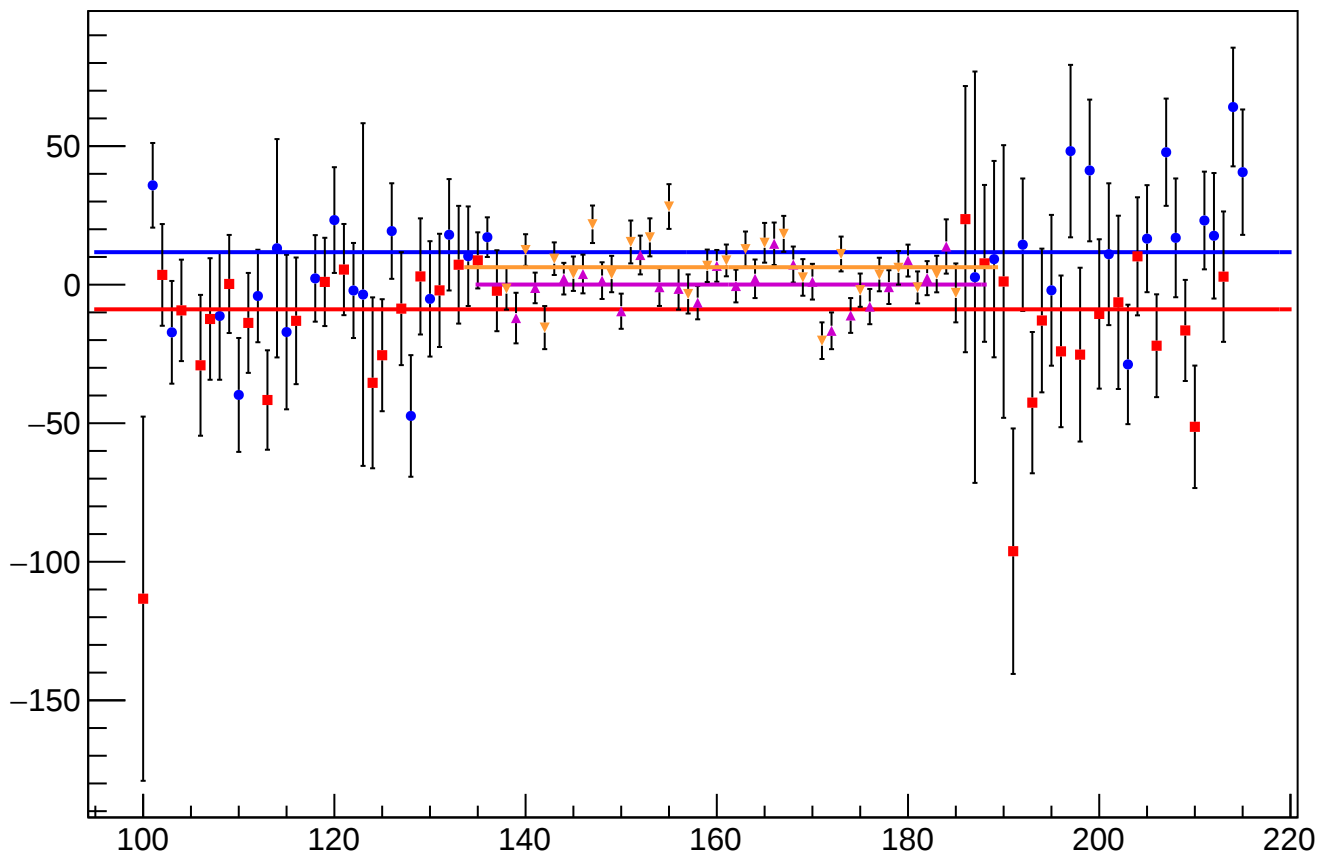
Right: 2645.482 $\pm$ 0.354 χ^2/NDF : 11469290.1/65

In: 3068.936 $\pm$ 0.412 χ^2/NDF : 12653813.2/54

Out: 3365.144 $\pm$ 0.445 χ^2/NDF : 11935443.8/58

All: 3205.700 $\pm$ 0.302 χ^2/NDF : 24828223.1/112

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 11.730 ± 3.382 $\chi^2/\text{NDF}: 42.6/31$

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

Right Out: -8.896 ± 3.573 $\chi^2/\text{NDF}: 26.7/33$

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

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

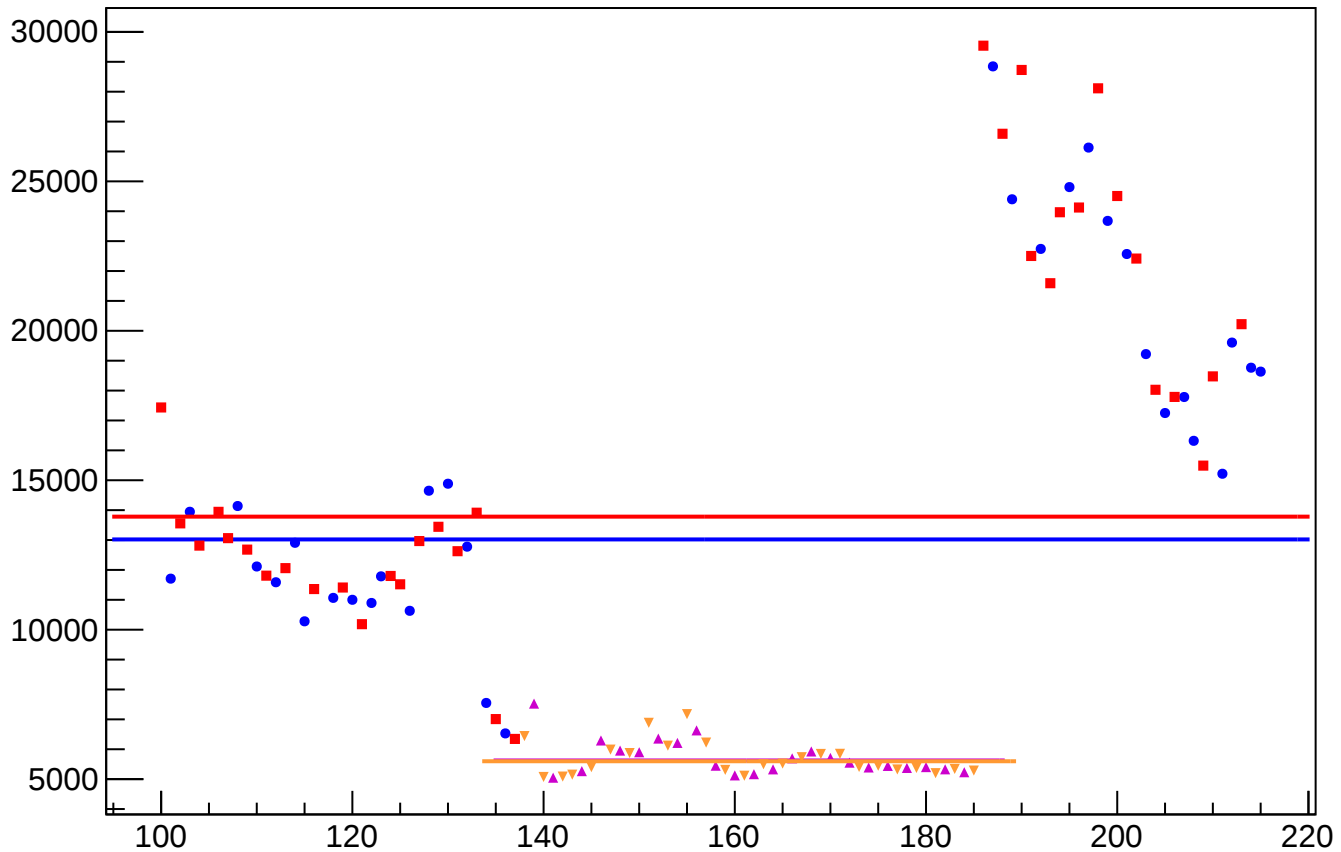
Right: 1.985 ± 2.456 $\chi^2/\text{NDF}: 86.9/65$

In: 1.667 ± 1.260 $\chi^2/\text{NDF}: 82.9/54$

Out: 4.495 ± 1.232 $\chi^2/\text{NDF}: 99.3/58$

All: 3.113 ± 0.881 $\chi^2/\text{NDF}: 184.8/113$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13019.967 $\pm$ 2.391 χ^2 /NDF: 4923779.4/31

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

Right Out: 13782.439 $\pm$ 2.527 χ^2 /NDF: 4669279.9/33

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

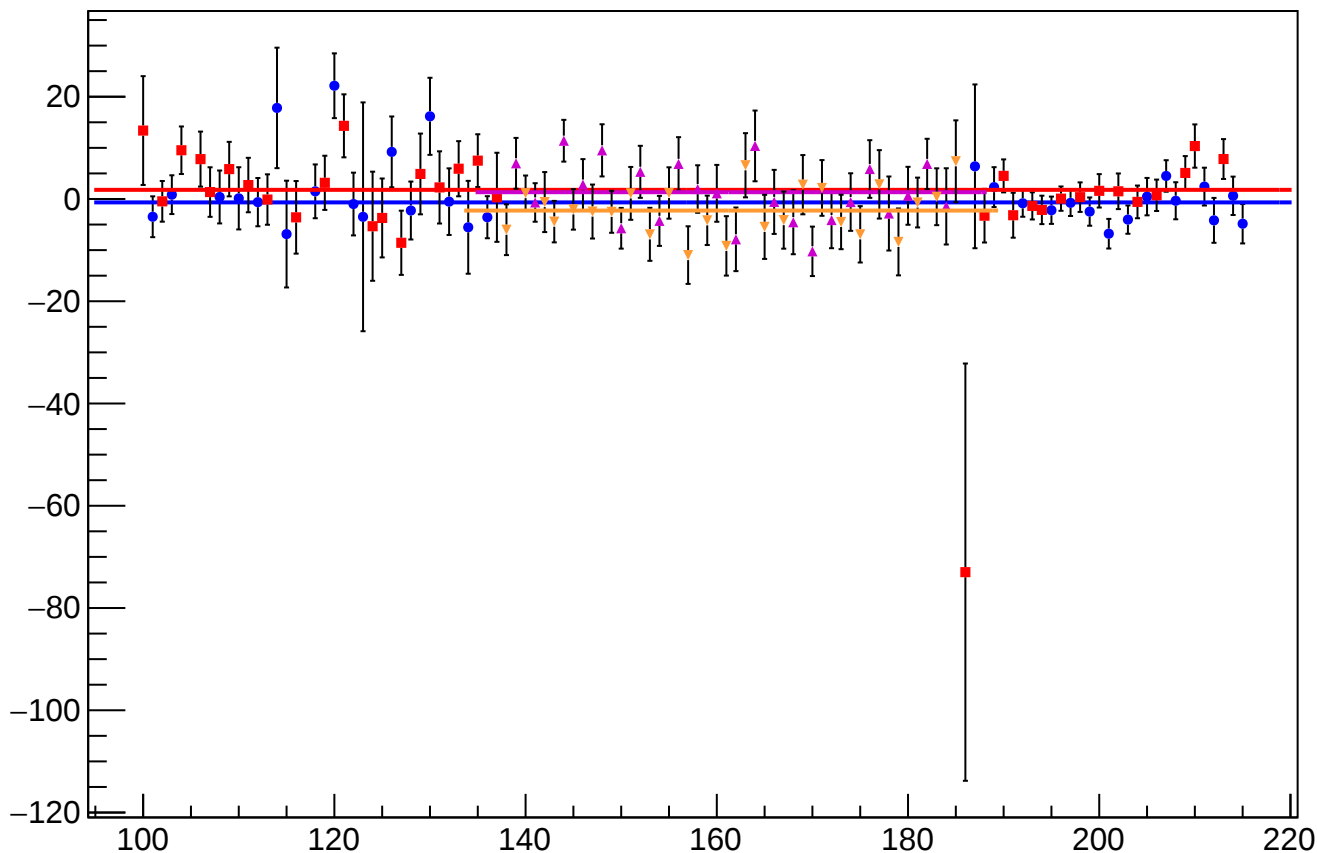
Right: 13380.193 $\pm$ 1.737 χ^2 /NDF: 9641099.5/65

In: 6651.802 $\pm$ 0.891 χ^2 /NDF: 13432914.7/54

Out: 6571.696 $\pm$ 0.871 χ^2 /NDF: 14195593.9/58

All: 6610.852 $\pm$ 0.623 χ^2 /NDF: 27632641.2/111

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.666 ± 0.722 χ^2/NDF : 37.6/31

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

Right Out: 1.788 ± 0.724 χ^2/NDF : 35.3/33

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

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

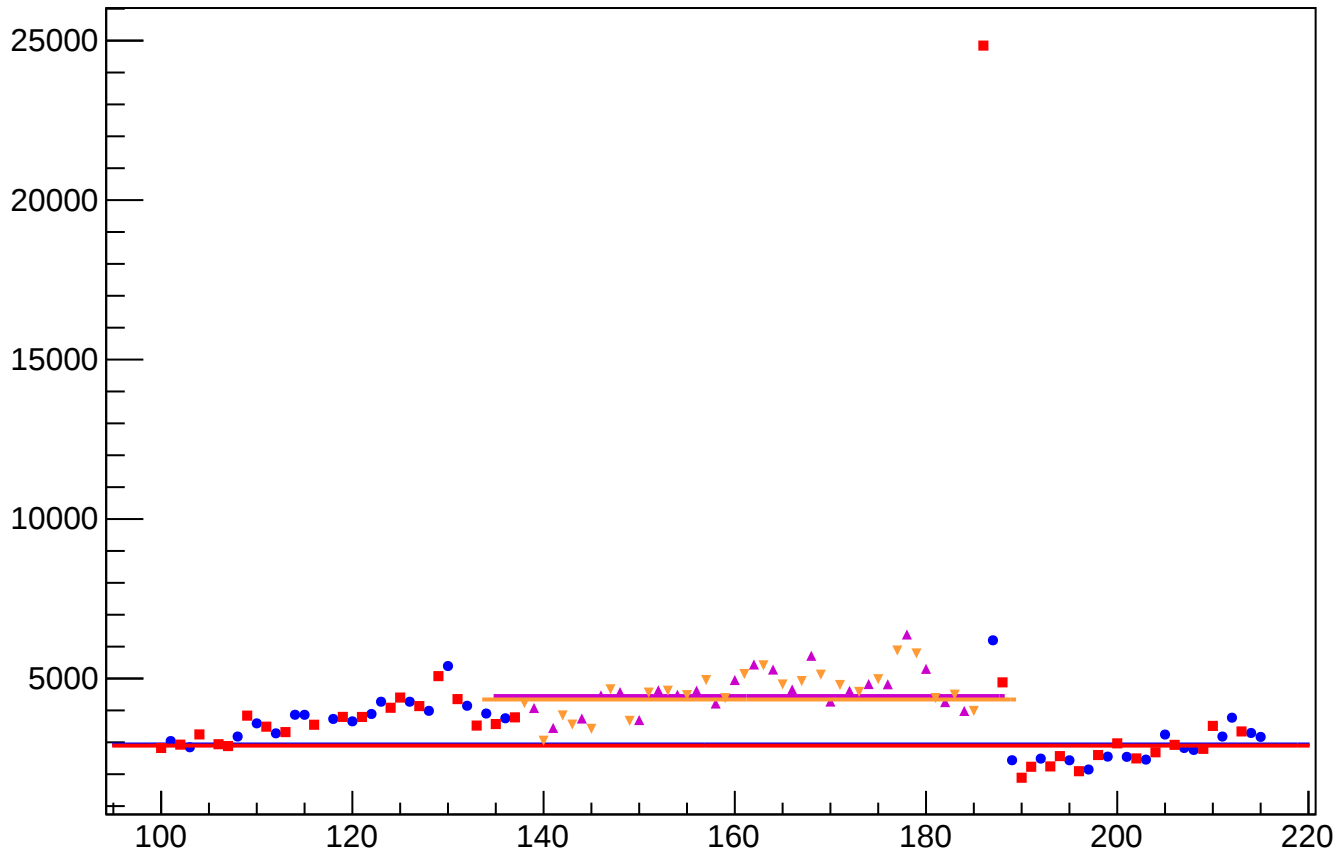
Right: 0.558 ± 0.511 χ^2/NDF : 78.7/65

In: -0.052 ± 0.601 χ^2/NDF : 70.6/54

Out: 0.449 ± 0.592 χ^2/NDF : 61.2/58

All: 0.202 ± 0.422 χ^2/NDF : 132.1/113

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2931.839 ± 0.511 $\chi^2/\text{NDF}: 1416382.5/31$

Left Out: 4342.635 ± 0.728 $\chi^2/\text{NDF}: 993035.5/24$

Right Out: 2896.641 ± 0.512 $\chi^2/\text{NDF}: 2338181.1/33$

Left In: 4450.007 ± 0.765 $\chi^2/\text{NDF}: 693229.8/22$

Left: 4393.686 ± 0.528 $\chi^2/\text{NDF}: 1696596.0/47$

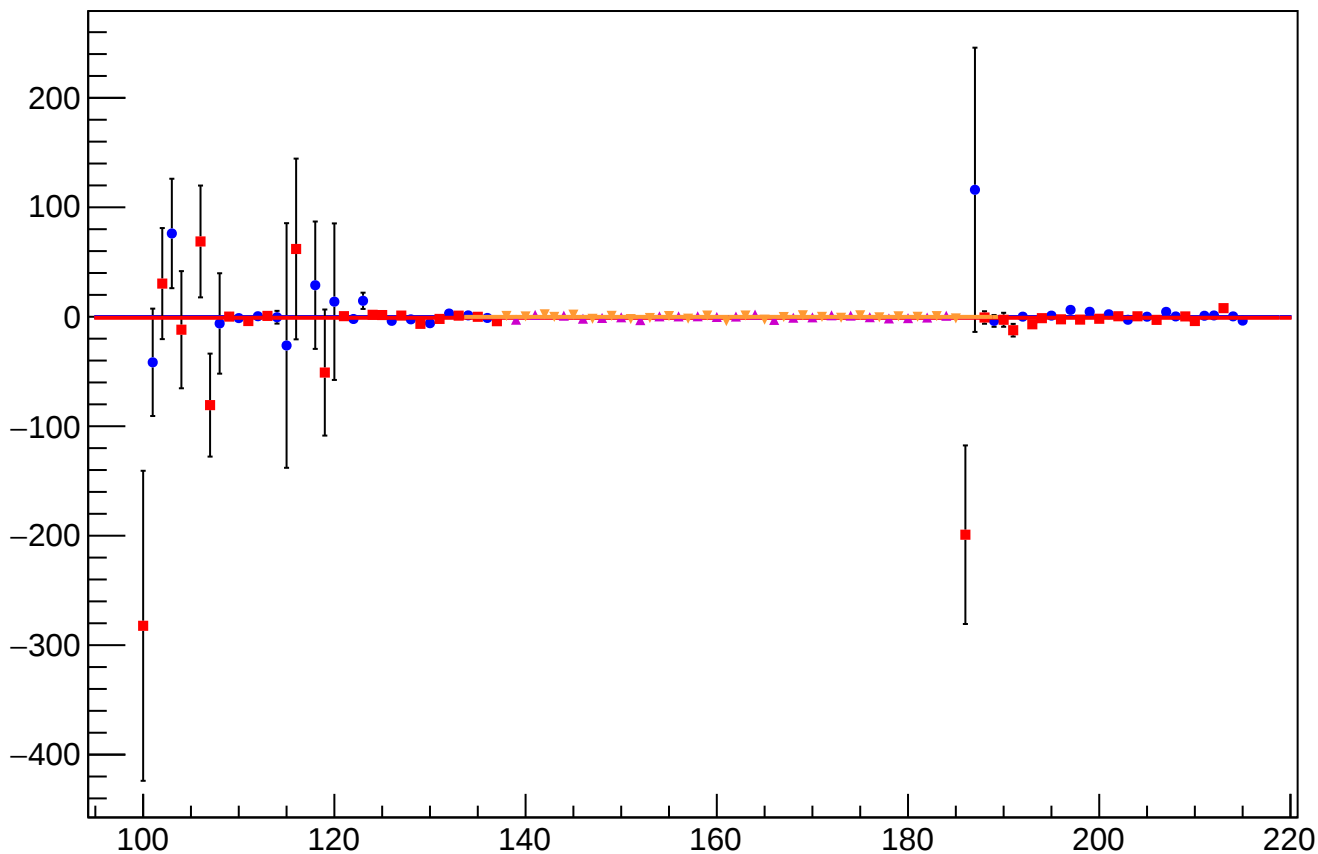
Right: 2914.285 ± 0.362 $\chi^2/\text{NDF}: 3756931.9/65$

In: 3399.858 ± 0.425 $\chi^2/\text{NDF}: 4833186.2/54$

Out: 3374.893 ± 0.419 $\chi^2/\text{NDF}: 5968519.5/58$

All: 3387.201 ± 0.298 $\chi^2/\text{NDF}: 10803456.6/111$

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.241 ± 0.526 χ^2/NDF : 34.0/31

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

Right Out: -0.915 ± 0.543 χ^2/NDF : 47.6/33

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

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

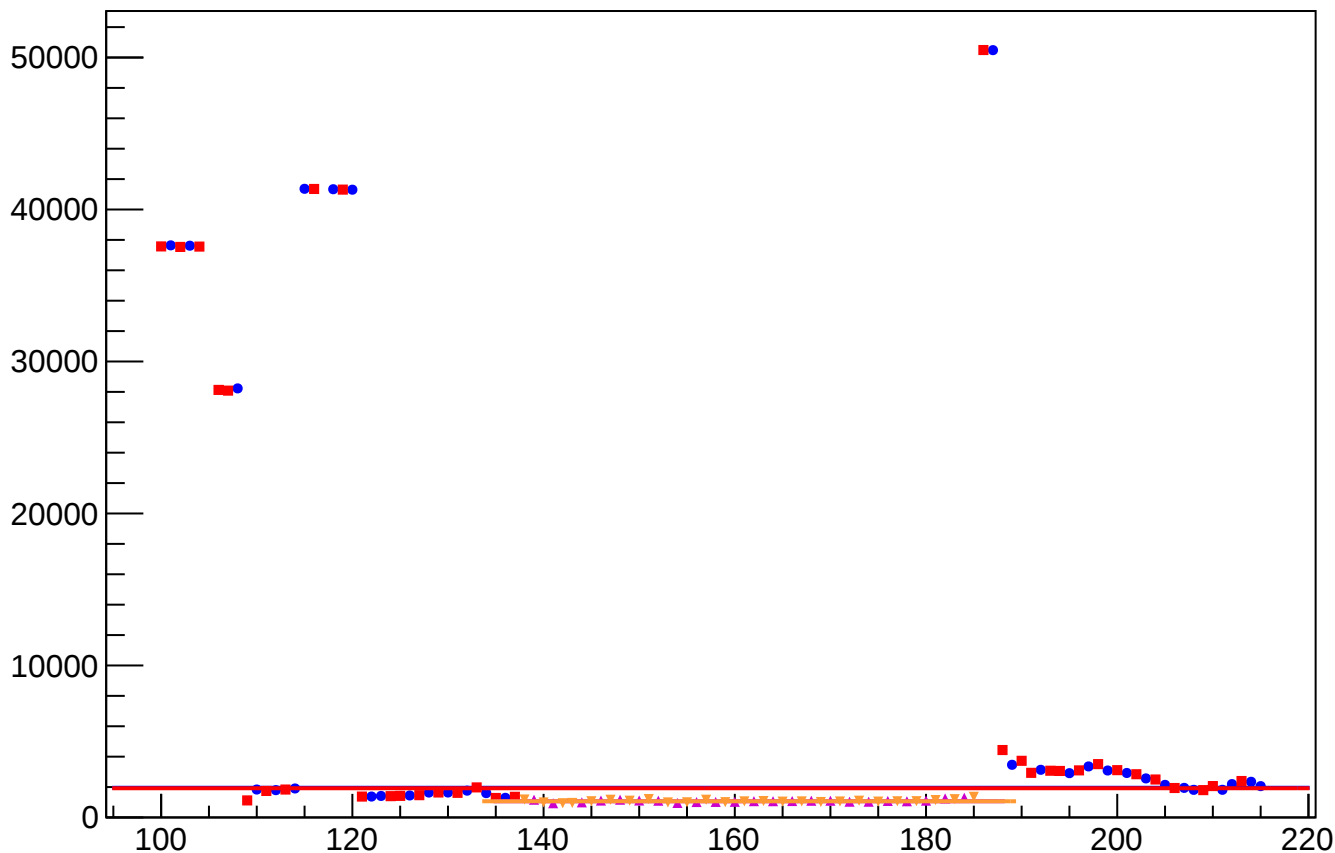
Right: -0.567 ± 0.378 χ^2/NDF : 82.4/65

In: -0.256 ± 0.231 χ^2/NDF : 61.2/54

Out: -0.235 ± 0.226 χ^2/NDF : 83.9/58

All: -0.245 ± 0.162 χ^2/NDF : 145.1/113

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1952.442 $\pm$ 0.372 χ^2/NDF : 7002473.7/31

Left Out: 1064.701 $\pm$ 0.176 χ^2/NDF : 186511.5/24

Right Out: 1921.853 $\pm$ 0.384 χ^2/NDF : 8414511.1/33

Left In: 1066.255 $\pm$ 0.182 χ^2/NDF : 164232.1/22

Left: 1065.454 $\pm$ 0.126 χ^2/NDF : 350781.3/47

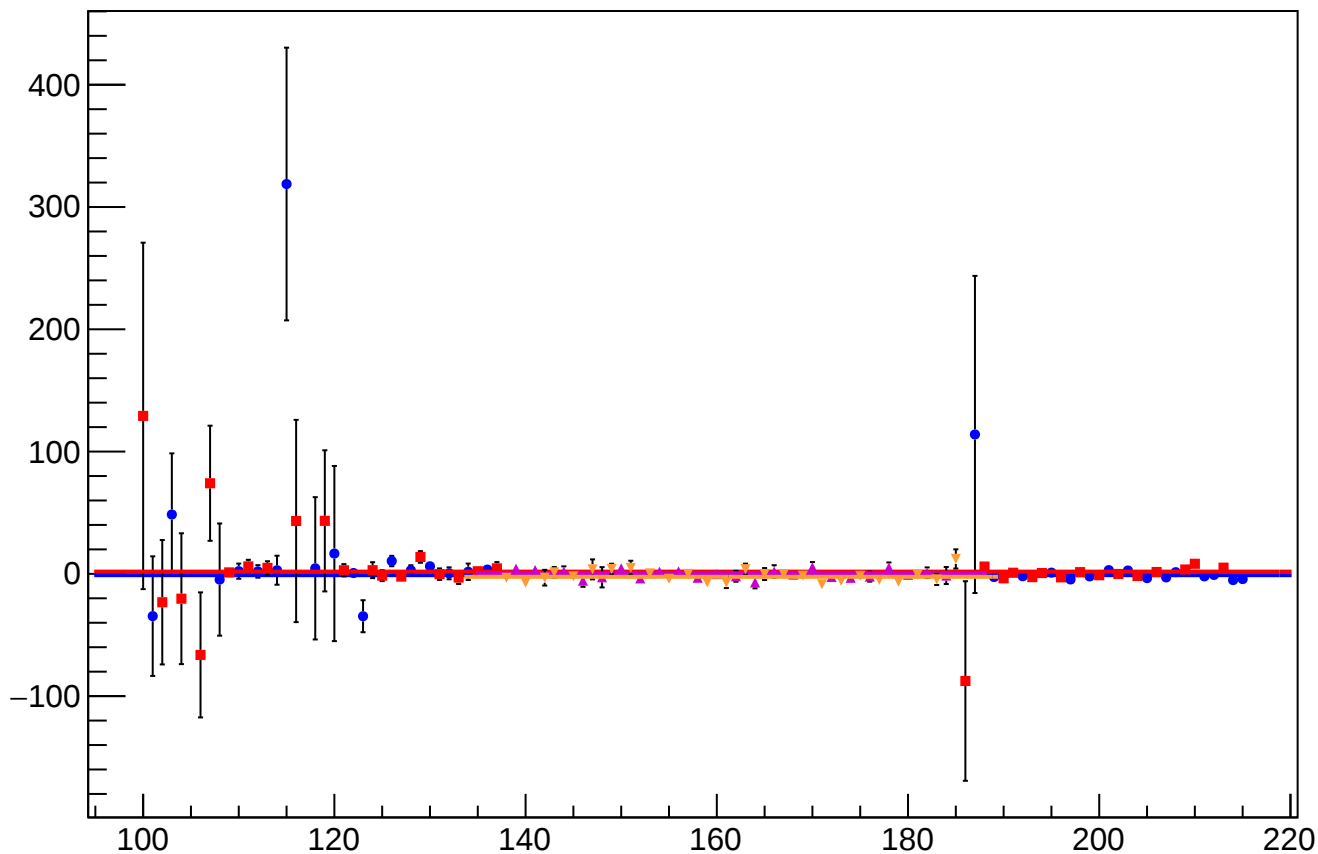
Right: 1937.630 $\pm$ 0.267 χ^2/NDF : 15420258.1/65

In: 1236.913 $\pm$ 0.163 χ^2/NDF : 11747450.0/54

Out: 1213.652 $\pm$ 0.160 χ^2/NDF : 12718011.5/58

All: 1225.053 $\pm$ 0.114 χ^2/NDF : 24475811.1/13

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -1.091 ± 0.454 χ^2/NDF : 61.3/31

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

Right Out: 1.827 ± 0.500 χ^2/NDF : 57.4/33

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

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

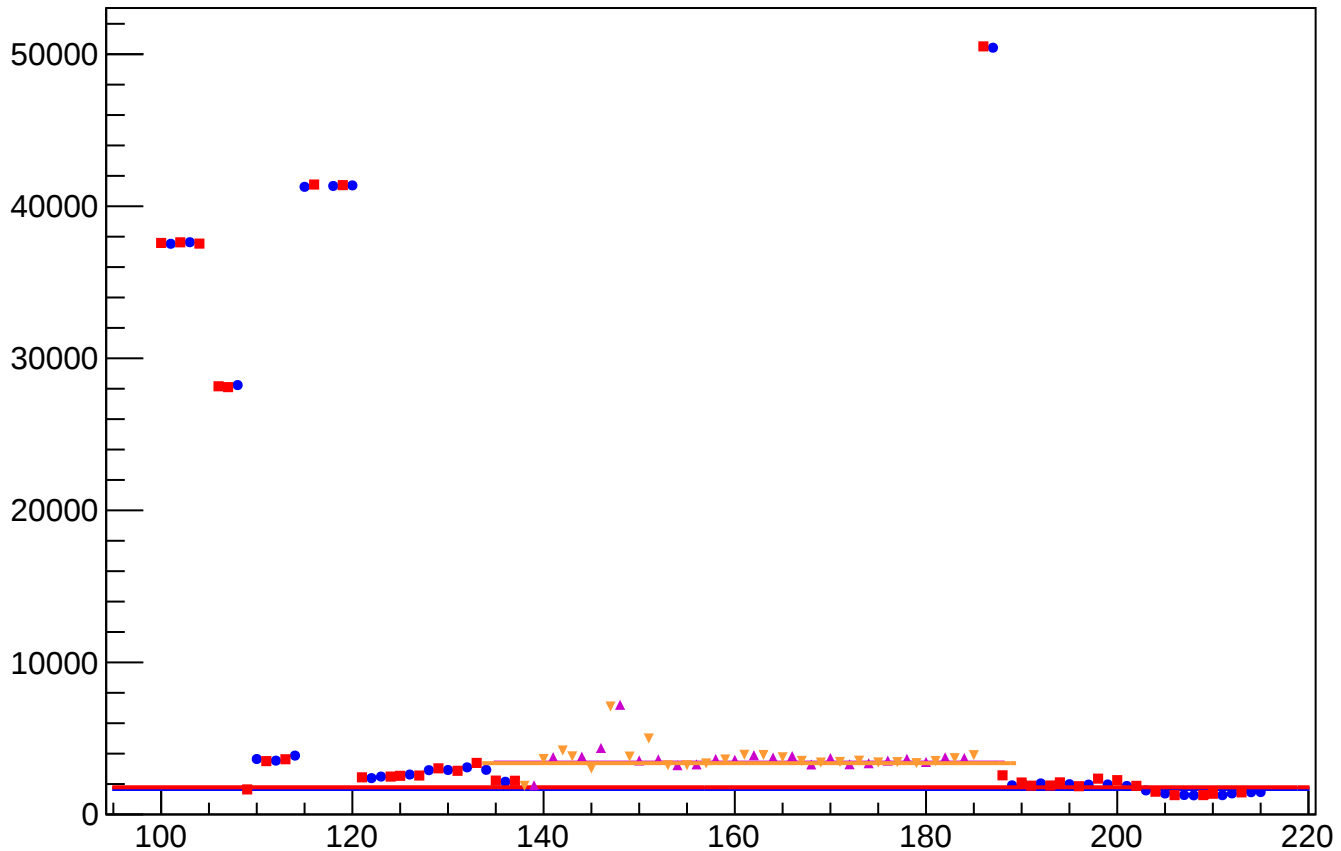
Right: 0.228 ± 0.336 χ^2/NDF : 137.4/65

In: -0.740 ± 0.399 χ^2/NDF : 79.5/54

Out: 0.657 ± 0.425 χ^2/NDF : 98.5/58

All: -0.085 ± 0.291 χ^2/NDF : 183.8/113

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1676.310+/-0.321 χ^2/NDF : 7104849.3/31

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

Right Out: 1787.180+/-0.353 χ^2/NDF : 7540053.6/33

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

Left: 3391.680+/-0.413 χ^2/NDF : 3093609.1/47

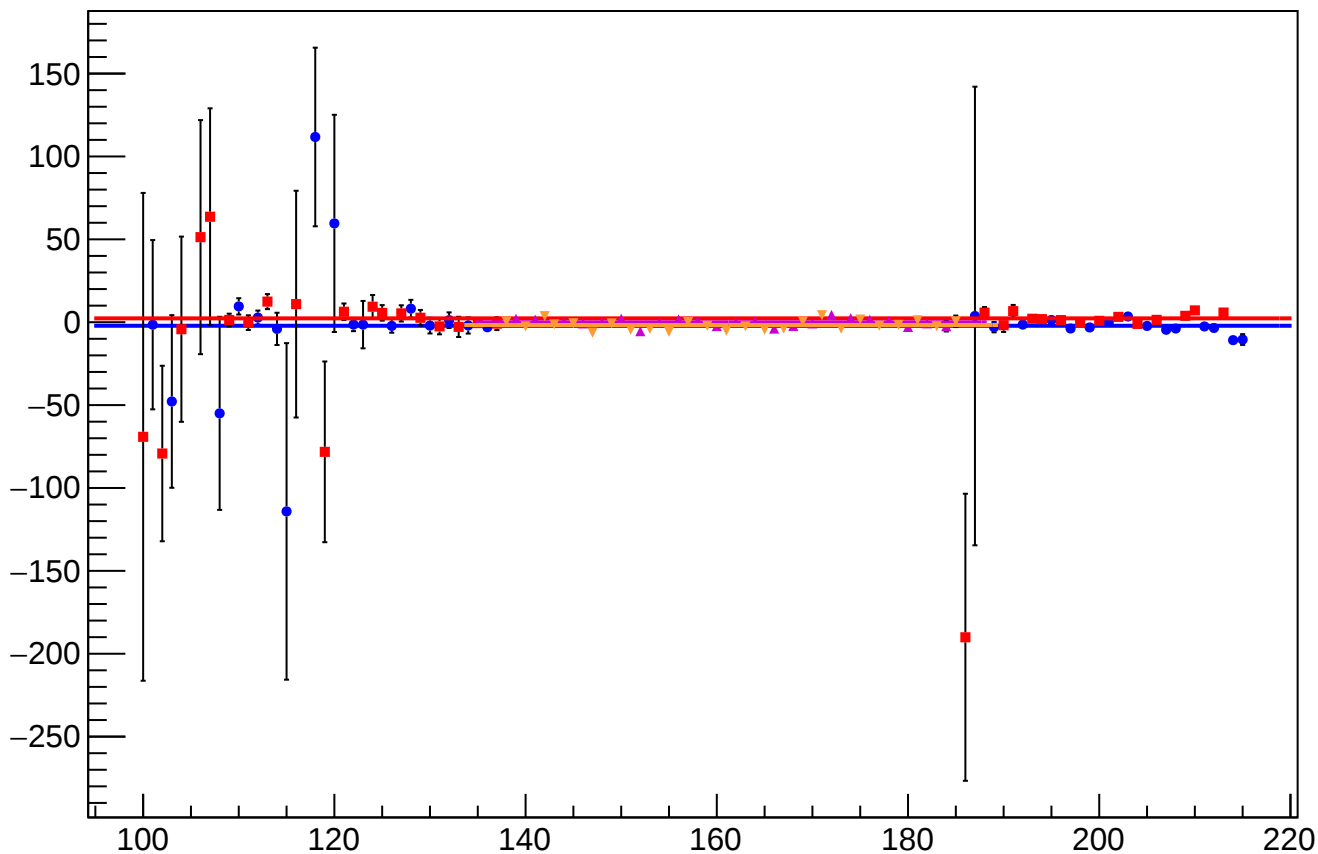
Right: 1726.413+/-0.238 χ^2/NDF : 14698878.5/65

In: 2066.219+/-0.282 χ^2/NDF : 15114882.6/54

Out: 2223.832+/-0.301 χ^2/NDF : 14744294.1/58

All: 2140.093+/-0.206 χ^2/NDF : 30005093.8/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -2.136 ± 0.575 $\chi^2/\text{NDF}: 46.2/31$

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

Right Out: 2.328 ± 0.598 $\chi^2/\text{NDF}: 34.9/33$

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

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

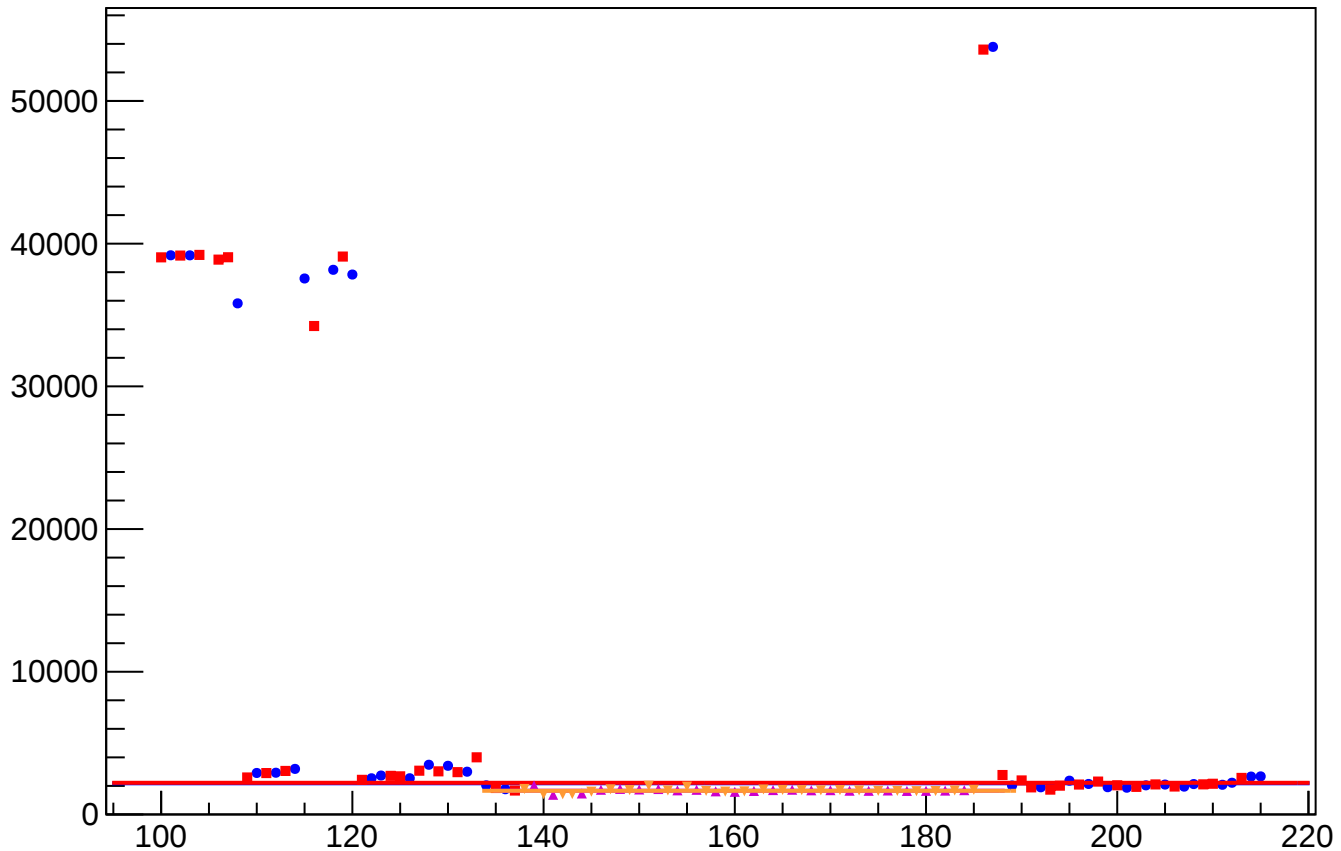
Right: 0.008 ± 0.415 $\chi^2/\text{NDF}: 110.0/65$

In: -0.747 ± 0.329 $\chi^2/\text{NDF}: 83.1/54$

Out: -0.488 ± 0.326 $\chi^2/\text{NDF}: 112.0/58$

All: -0.616 ± 0.231 $\chi^2/\text{NDF}: 195.4/113$

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2182.956+/-0.407 χ^2/NDF : 5561932.1/31

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

Right Out: 2218.675+/-0.423 χ^2/NDF : 6094244.7/33

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

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

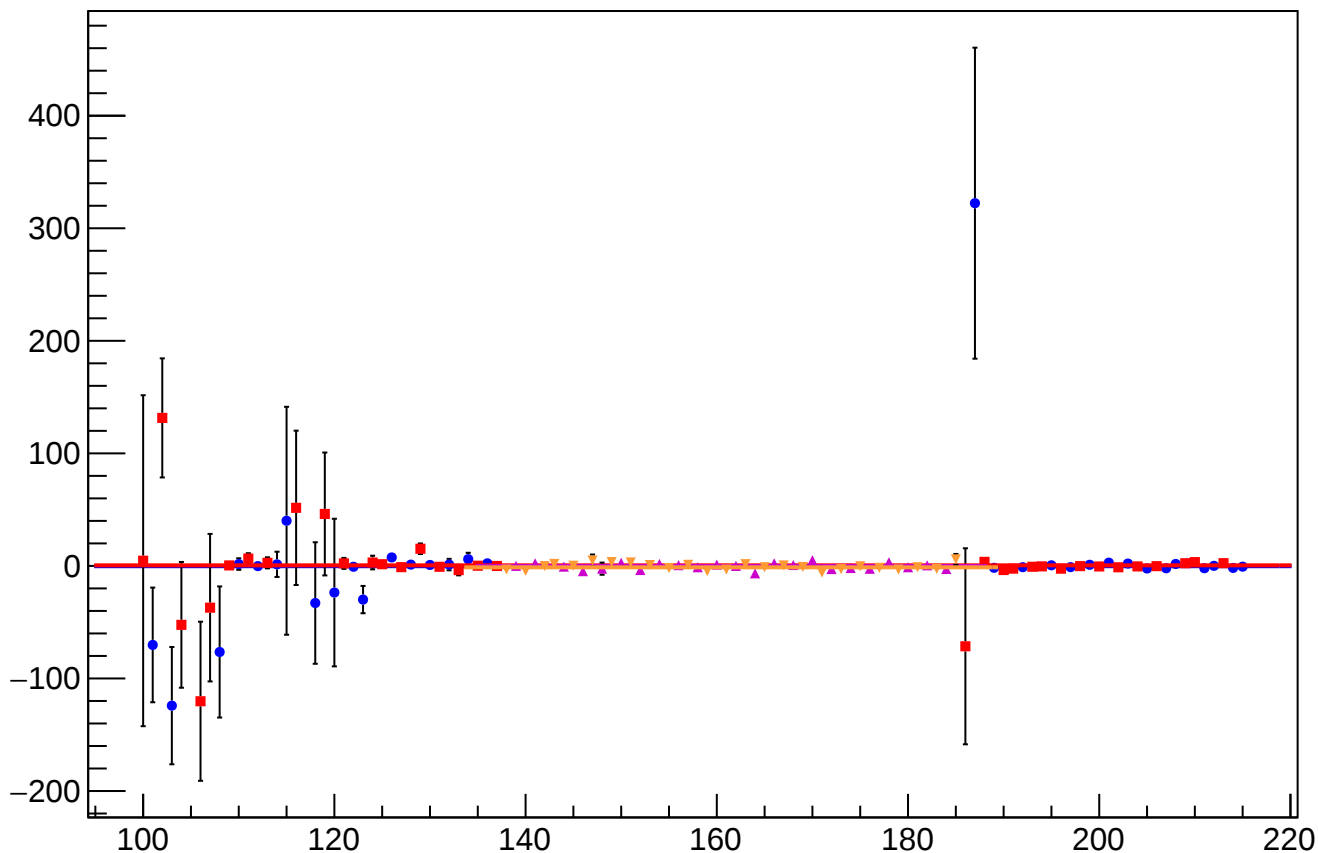
Right: 2200.112+/-0.293 χ^2/NDF : 11659880.1/65

In: 1833.476+/-0.233 χ^2/NDF : 6837676.8/54

Out: 1823.827+/-0.230 χ^2/NDF : 7554642.2/58

All: 1828.602+/-0.164 χ^2/NDF : 14393188.1/112

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.258 ± 0.388 $\chi^2/\text{NDF}: 45.1/31$

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

Right Out: 0.517 ± 0.425 $\chi^2/\text{NDF}: 43.0/33$

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

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

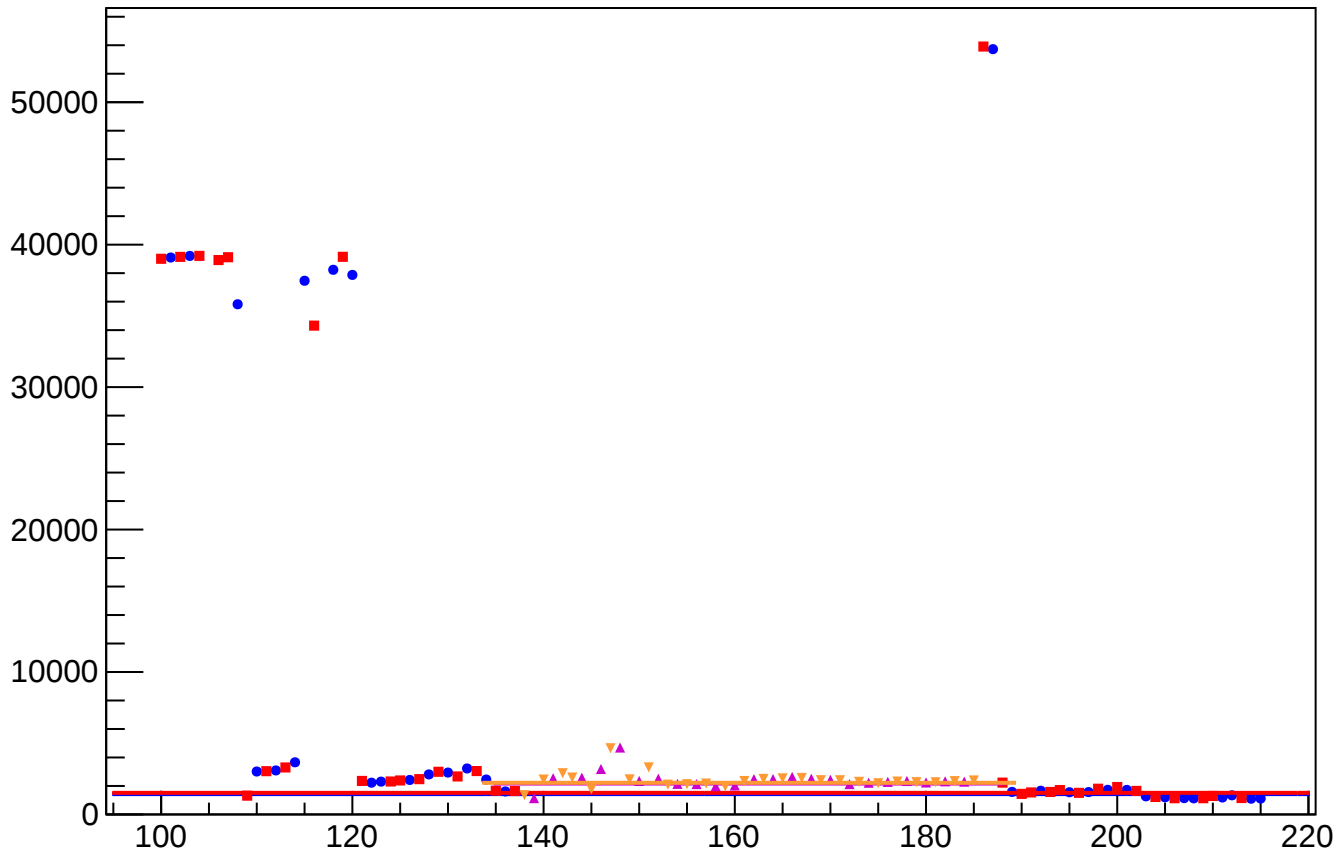
Right: 0.094 ± 0.286 $\chi^2/\text{NDF}: 89.9/65$

In: -0.204 ± 0.315 $\chi^2/\text{NDF}: 64.4/54$

Out: -0.167 ± 0.333 $\chi^2/\text{NDF}: 71.4/58$

All: -0.186 ± 0.229 $\chi^2/\text{NDF}: 135.8/113$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1428.442 $\pm$ 0.274 χ^2/NDF : 7282853.1/31

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

Right Out: 1516.763 $\pm$ 0.300 χ^2/NDF : 7638216.3/33

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

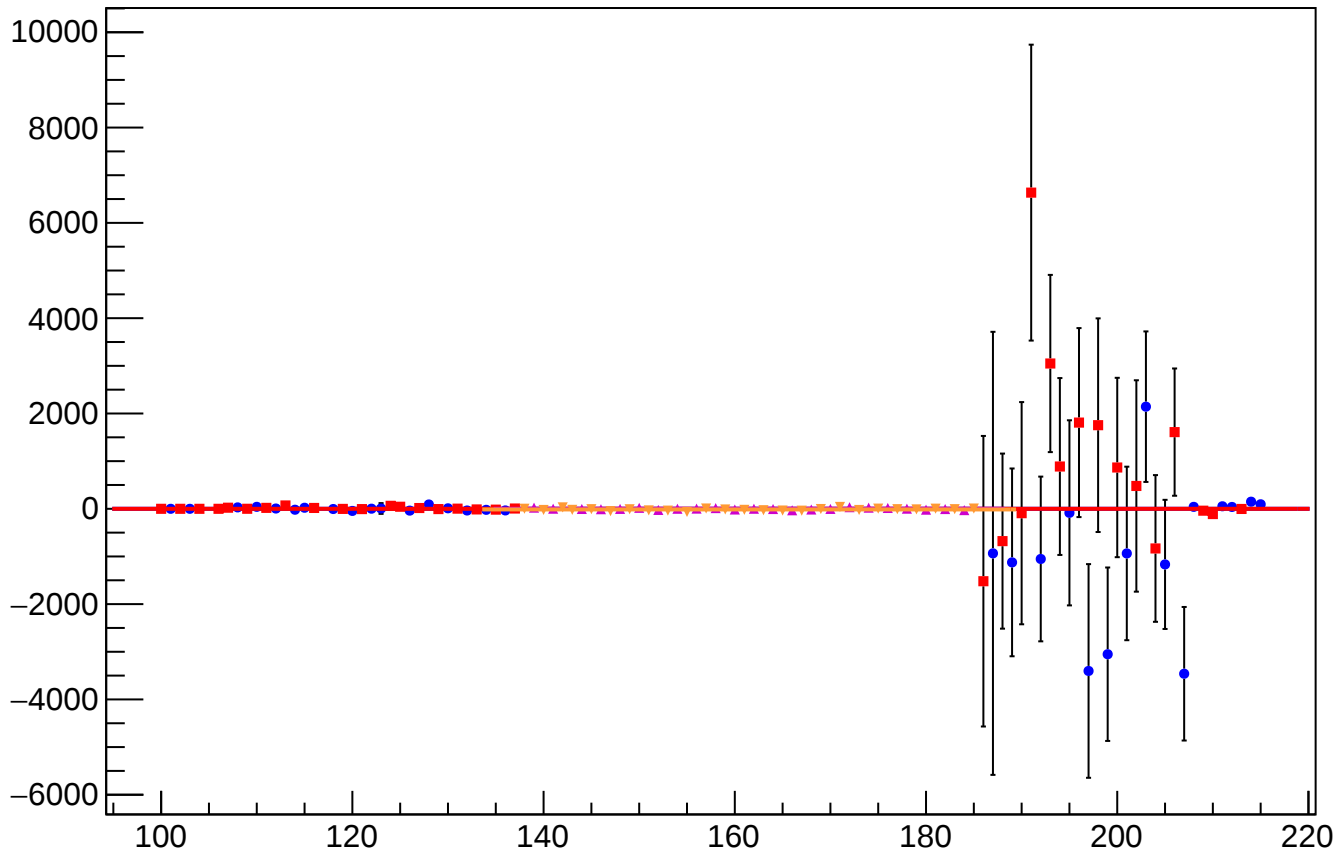
Right: 1468.597 $\pm$ 0.203 χ^2/NDF : 14968208.8/65

In: 1679.911 $\pm$ 0.223 χ^2/NDF : 11734484.7/54

Out: 1789.499 $\pm$ 0.235 χ^2/NDF : 11192278.4/58

All: 1731.760 $\pm$ 0.162 χ^2/NDF : 23041083.9/112

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 47.1/31

Left Out: -13.484+/-2.800 χ^2/NDF : 58.7/24

Right Out: -0.003+/-0.016 χ^2/NDF : 33.2/33

Left In: 0.459+/-2.917 χ^2/NDF : 29.0/22

Left: -6.796+/-2.020 χ^2/NDF : 99.5/47

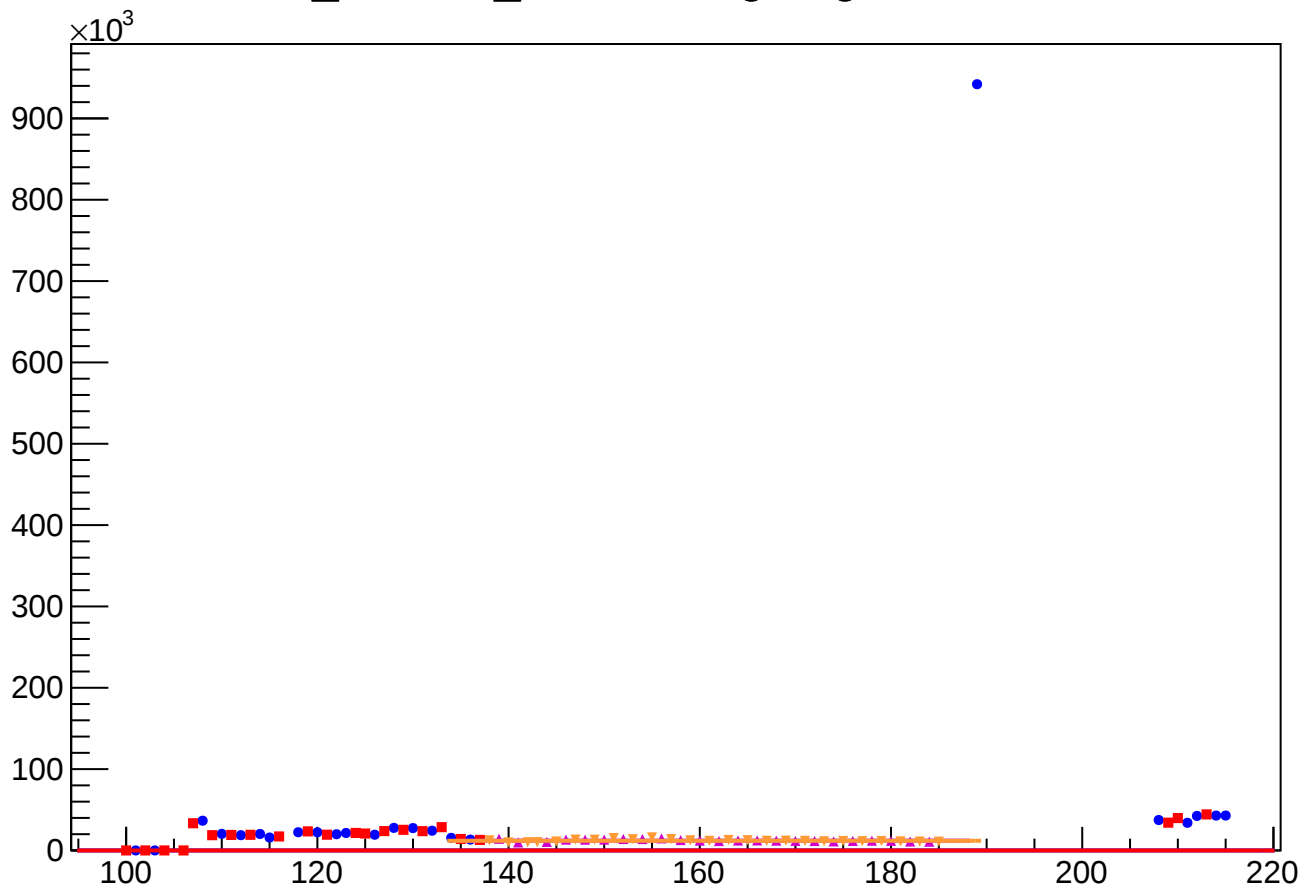
Right: 0.004+/-0.012 χ^2/NDF : 80.8/65

In: 0.013+/-0.017 χ^2/NDF : 76.1/54

Out: -0.004+/-0.016 χ^2/NDF : 115.0/58

All: 0.004+/-0.012 χ^2/NDF : 191.7/113

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.668+/-0.012 χ^2/NDF : 18158797.2/22

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

Right Out: 18.325+/-0.011 χ^2/NDF : 15377929.3/21

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

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

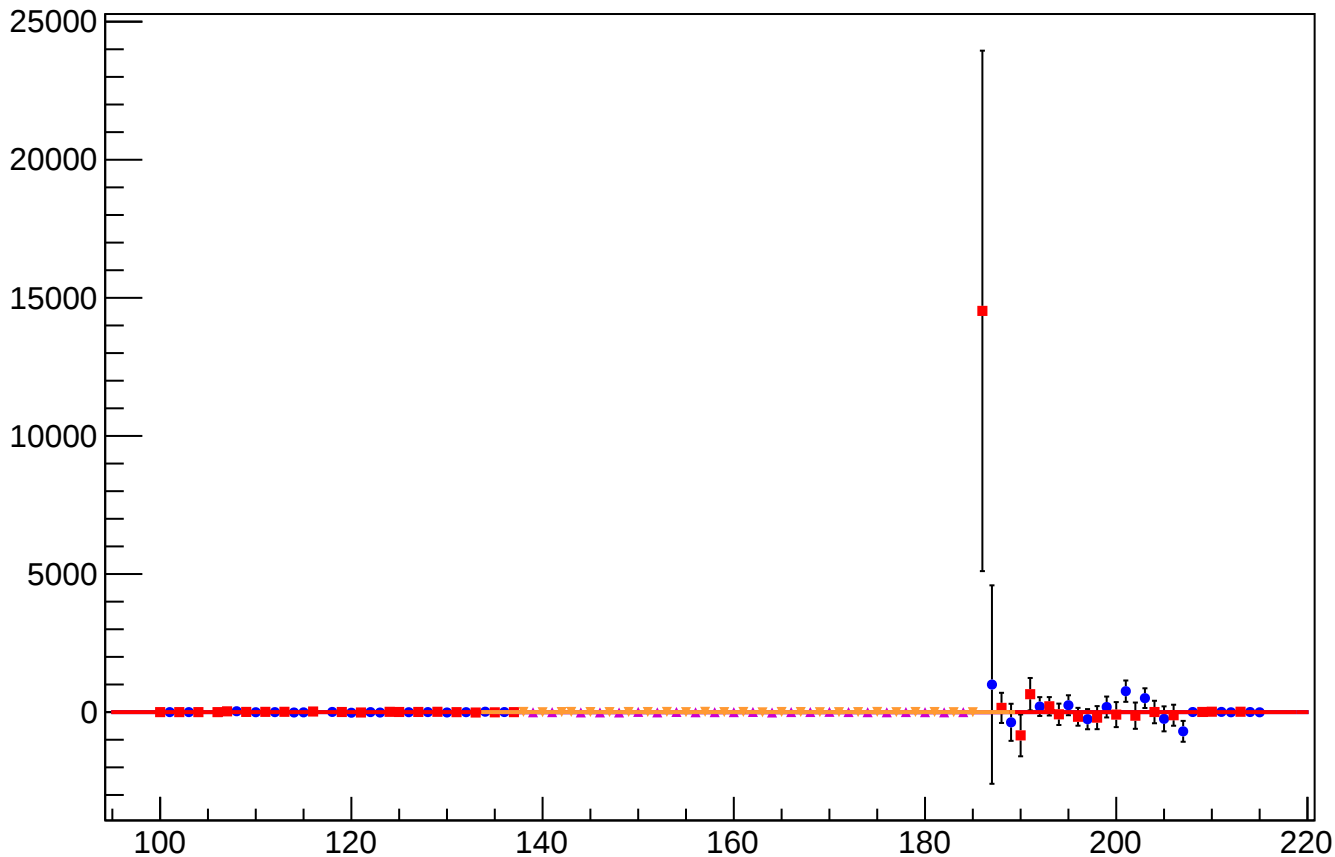
Right: 18.484+/-0.008 χ^2/NDF : 33537146.5/44

In: 19.093+/-0.012 χ^2/NDF : 52640964.7/45

Out: 18.717+/-0.011 χ^2/NDF : 51919688.5/46

All: 18.891+/-0.008 χ^2/NDF : 104561160.0/92

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 27.6/31

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 33.2/33

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

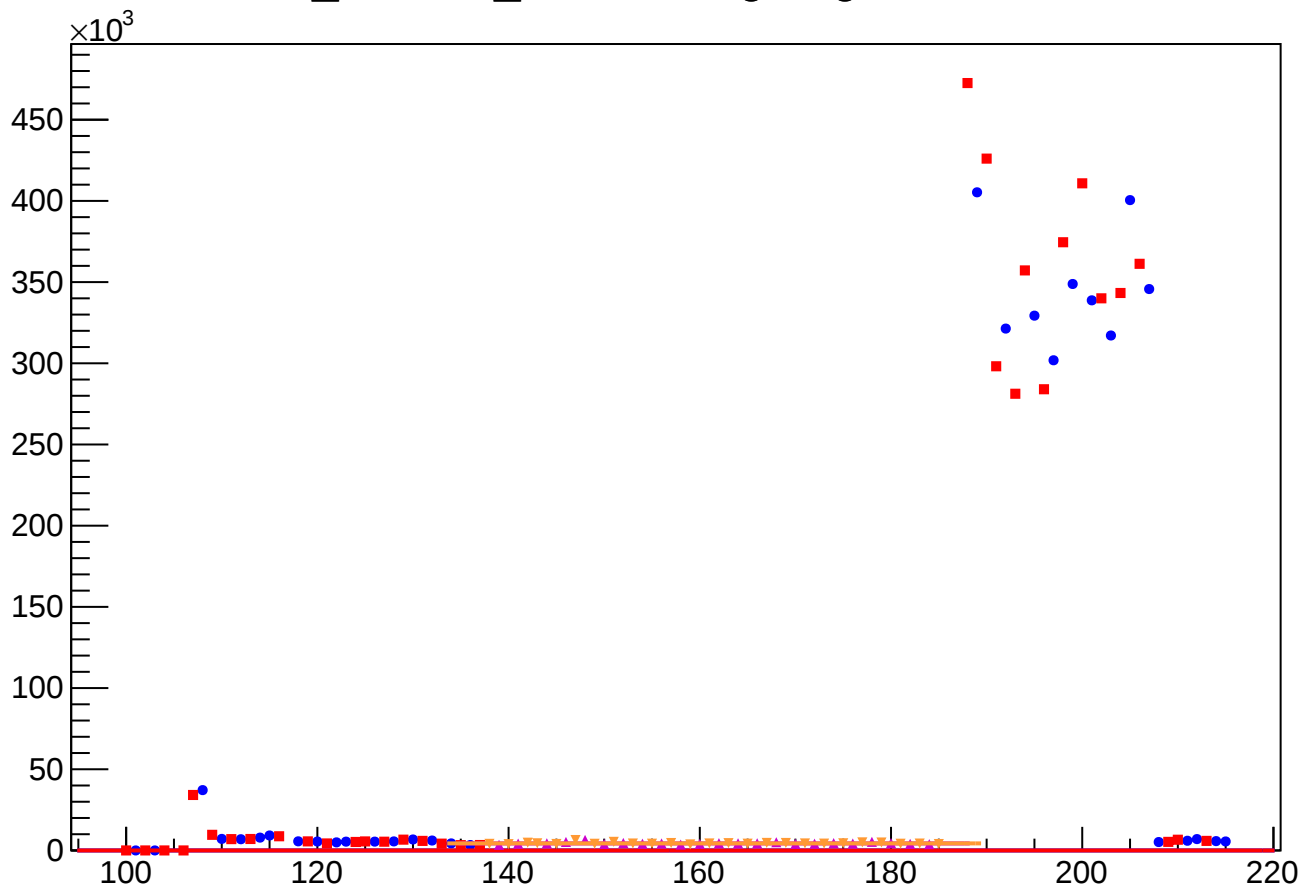
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 62.1/65

In: 0.001 $\pm$ 0.009 χ^2 /NDF:64.0/54

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:54.2/58

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 119.5/113

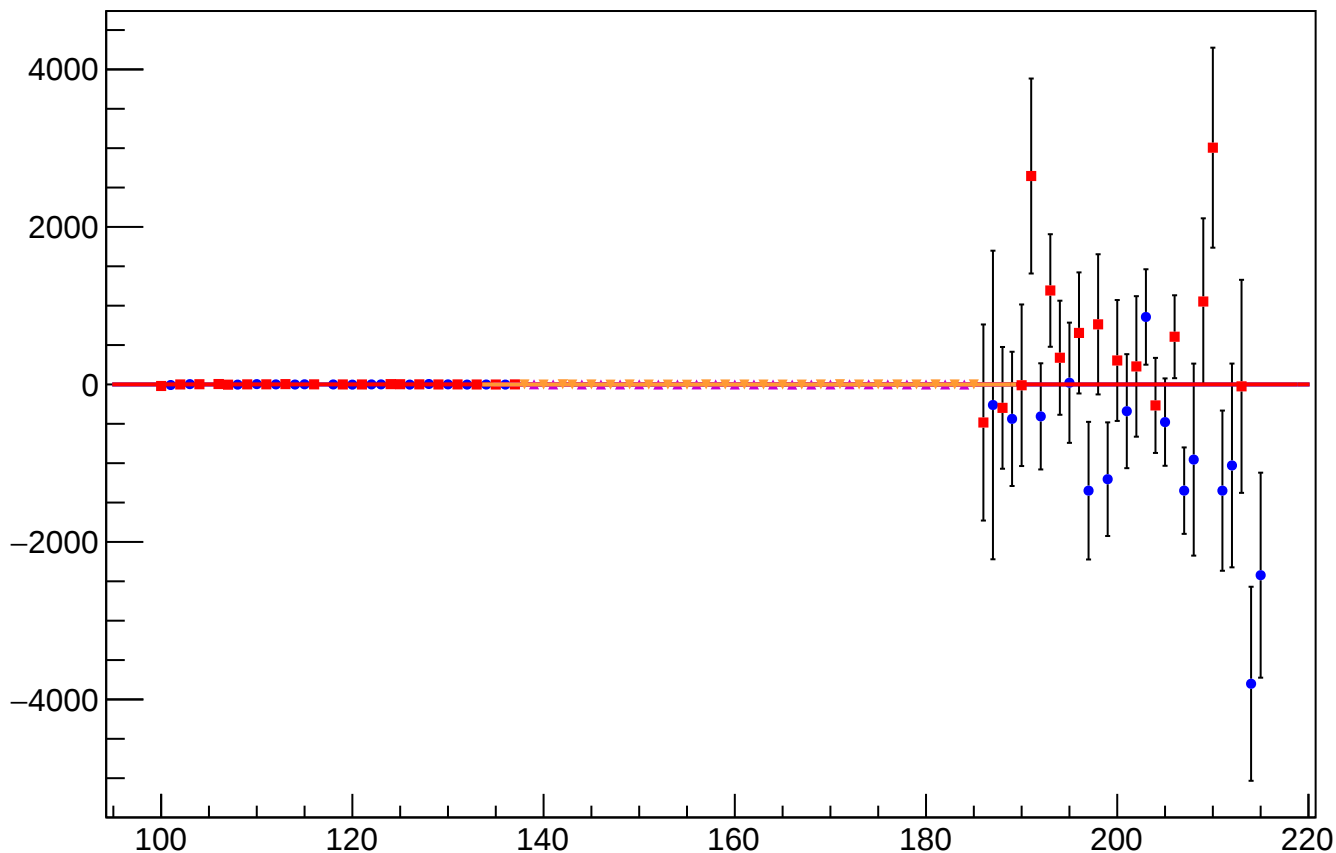
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.991 $\pm$ 0.007 χ^2 /NDF: 31612864.8/30
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.883 $\pm$ 0.006 χ^2 /NDF: 30164910.9/32
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.933 $\pm$ 0.004 χ^2 /NDF: 61777921.8/63
 In: 10.323 $\pm$ 0.007 χ^2 /NDF:65943797.9/53
 Out: 10.194 $\pm$ 0.006 χ^2 /NDF:66593608.4/57
 All: 10.254 $\pm$ 0.004 χ^2 /NDF: 132537615.5/111

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.717 $\pm$ 0.483 χ^2/NDF : 53.5/31

Left Out: -0.775 $\pm$ 0.165 χ^2/NDF : 58.5/24

Right Out: 0.641 $\pm$ 0.501 χ^2/NDF : 30.7/33

Left In: 0.018 $\pm$ 0.171 χ^2/NDF : 29.4/22

Left: -0.393 $\pm$ 0.119 χ^2/NDF : 99.1/47

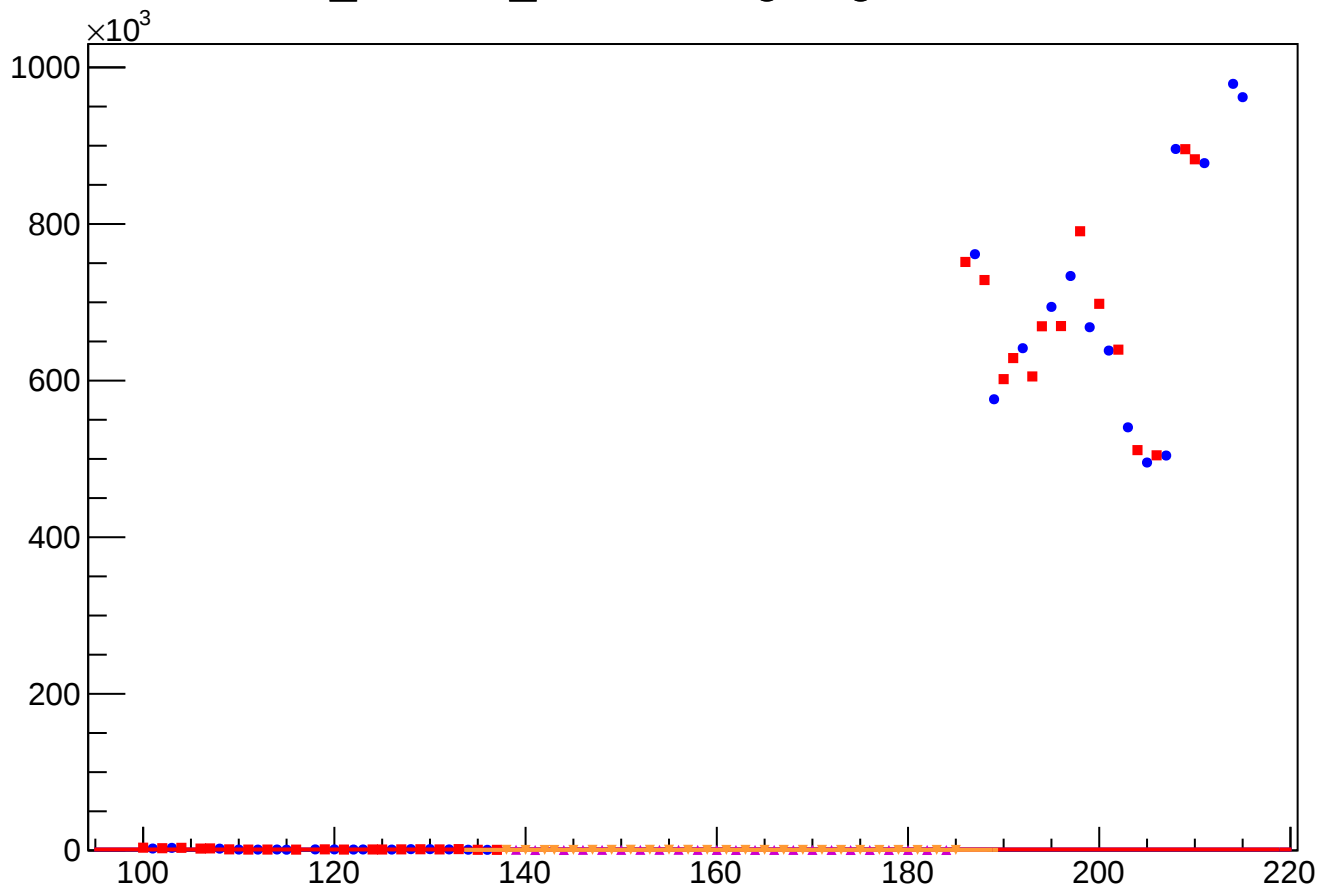
Right: -0.064 $\pm$ 0.348 χ^2/NDF : 88.0/65

In: -0.063 $\pm$ 0.161 χ^2/NDF : 85.0/54

Out: -0.637 $\pm$ 0.156 χ^2/NDF : 96.4/58

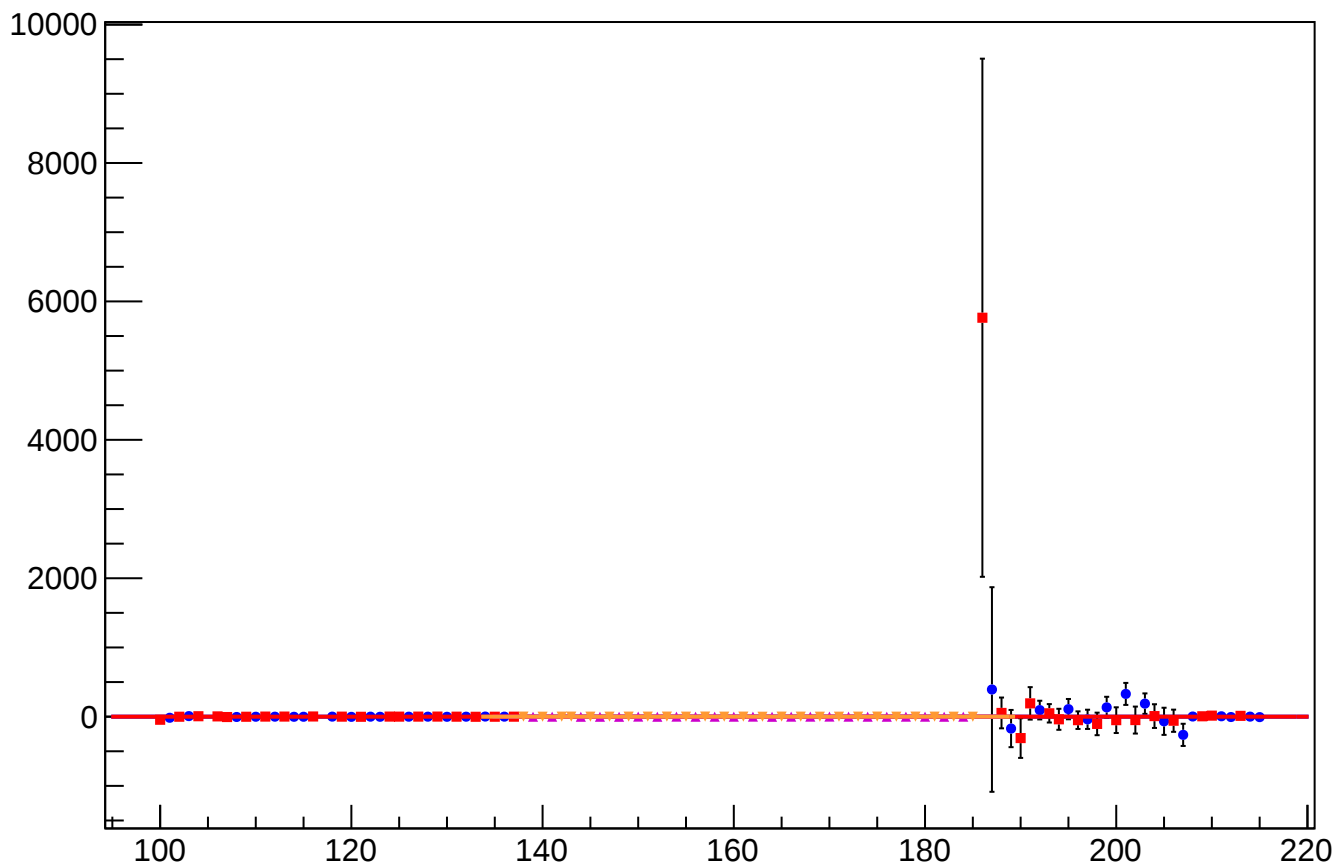
All: -0.359 $\pm$ 0.112 χ^2/NDF : 187.9/113

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.237 $\pm$ 0.342 χ^2/NDF : 18561976.8/30
 Left: 703.867 $\pm$ 0.084 χ^2/NDF : 726141.0/47
 Left Out: 700.984 $\pm$ 0.116 χ^2/NDF : 392855.4/24
 Right: 1209.237 $\pm$ 0.246 χ^2/NDF : 37574940.9/63
 Right Out: 1251.257 $\pm$ 0.355 χ^2/NDF : 18985888.9/32
 In: 758.429 $\pm$ 0.114 χ^2/NDF : 20528712.8/53
 Left In: 706.971 $\pm$ 0.121 χ^2/NDF : 332011.4/22
 Out: 754.488 $\pm$ 0.111 χ^2/NDF : 21552750.8/57
 All: 756.401 $\pm$ 0.079 χ^2/NDF : 42082080.1/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.061 ± 0.267 χ^2/NDF : 33.4/31

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

Right Out: -0.214 ± 0.264 χ^2/NDF : 37.1/33

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

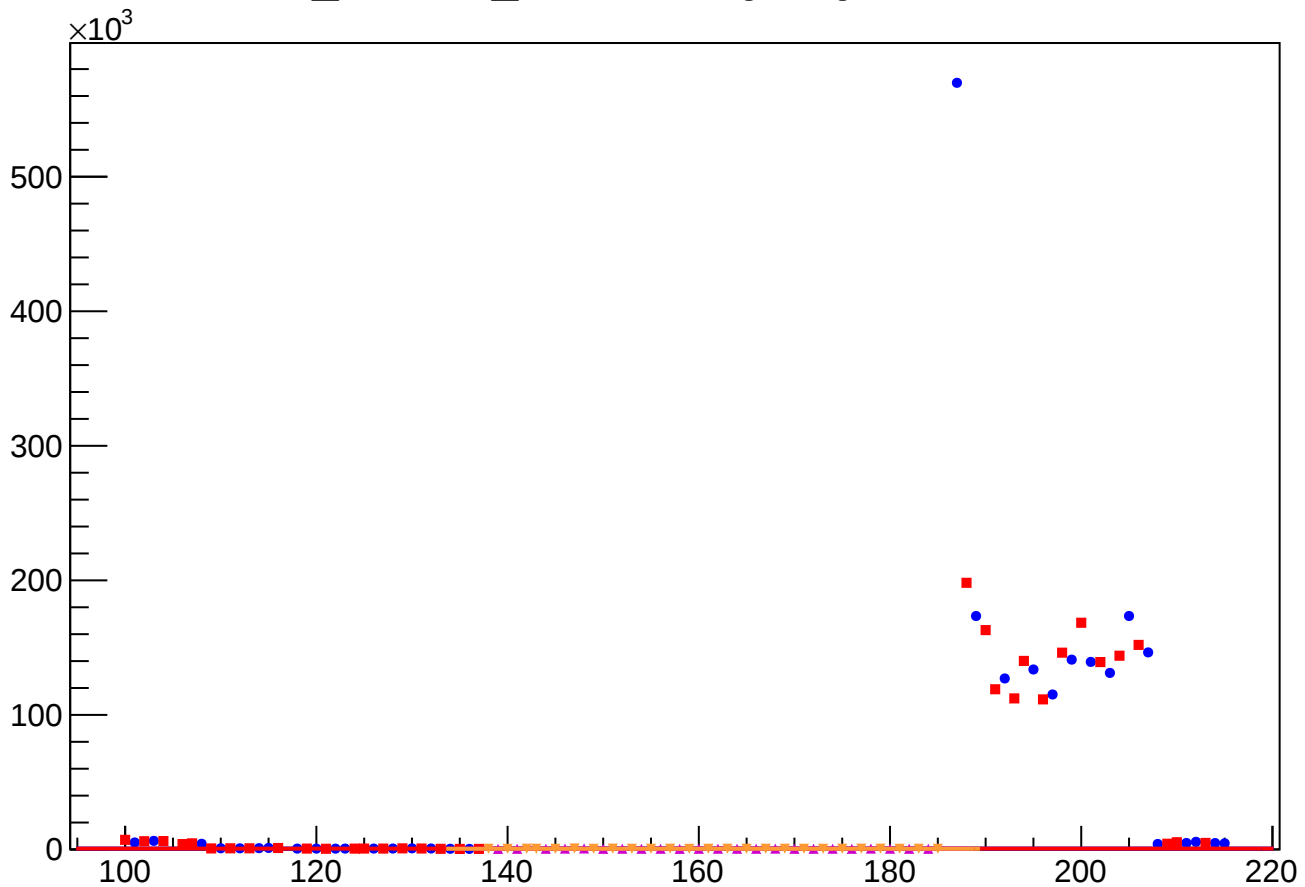
Right: -0.138 ± 0.188 χ^2/NDF : 70.7/65

In: -0.114 ± 0.114 χ^2/NDF : 68.4/54

Out: 0.154 ± 0.111 χ^2/NDF : 57.4/58

All: 0.023 ± 0.080 χ^2/NDF : 128.7/113

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 658.746+/-0.189 χ^2/NDF : 22259881.1/31

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

Right Out: 629.609+/-0.186 χ^2/NDF : 21588201.2/32

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

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

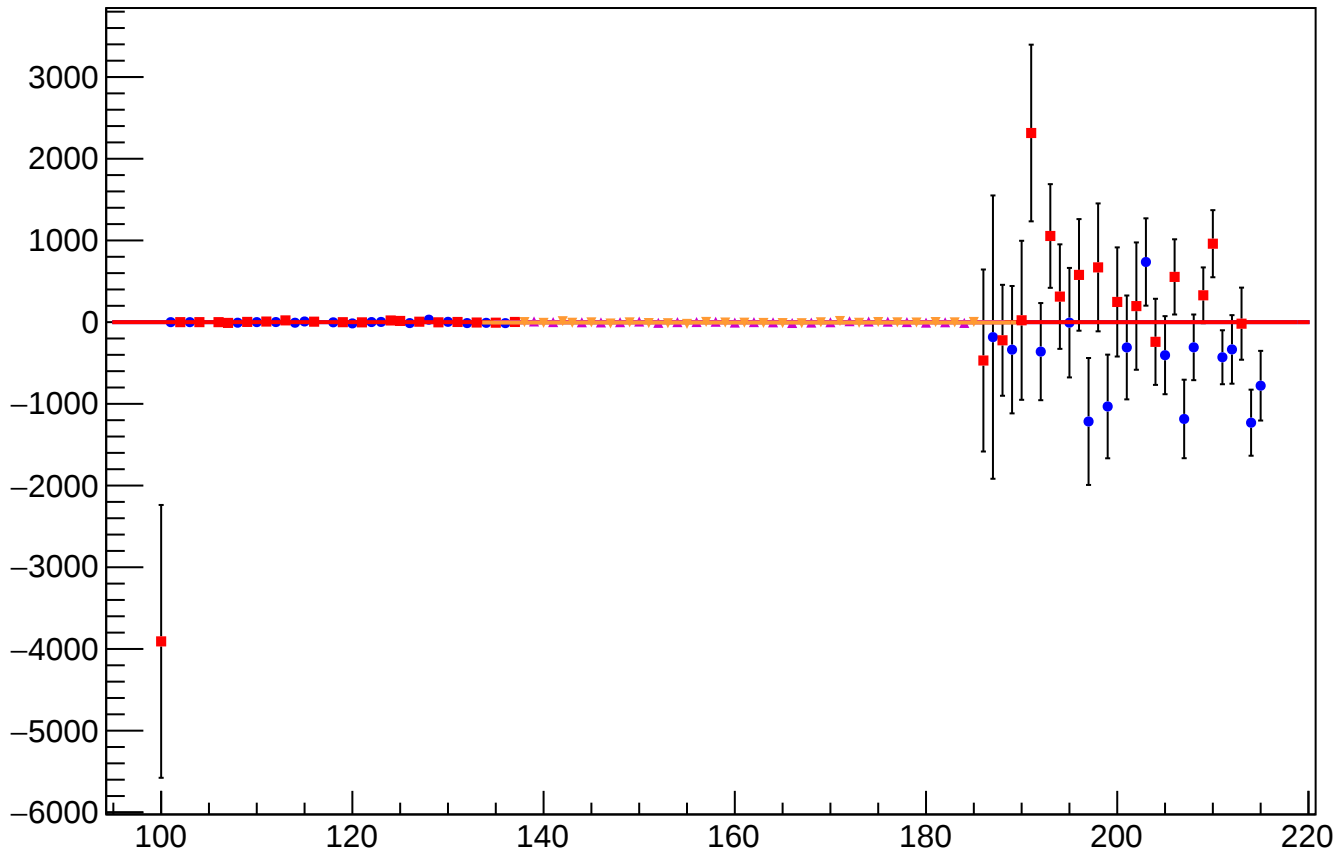
Right: 643.961+/-0.133 χ^2/NDF : 43860123.9/64

In: 545.815+/-0.081 χ^2/NDF : 23123377.0/54

Out: 541.326+/-0.079 χ^2/NDF : 22191601.3/57

All: 543.512+/-0.056 χ^2/NDF : 45316566.7/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 46.1/31

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 35.0/33

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

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

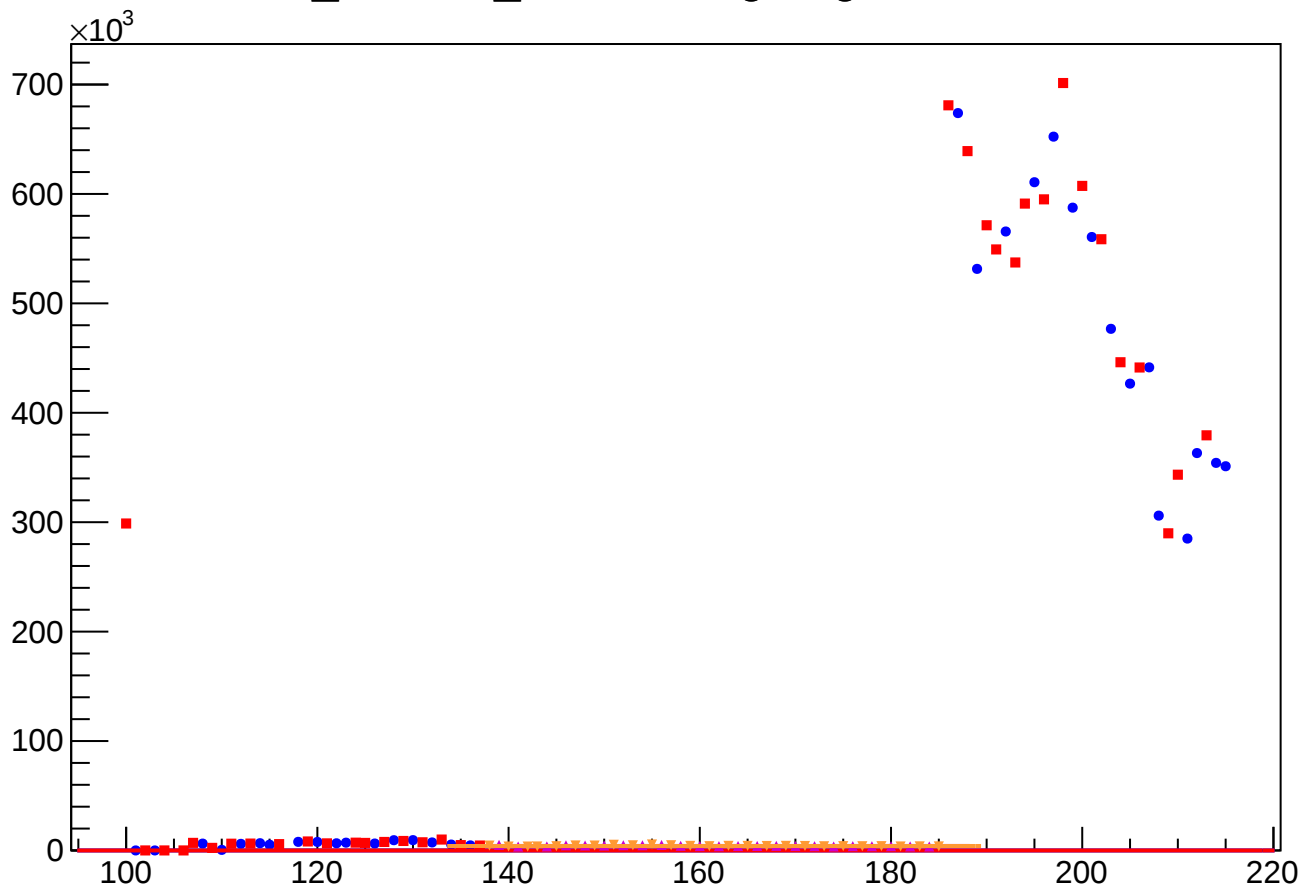
Right: 0.004 ± 0.014 χ^2/NDF : 83.9/65

In: -0.022 ± 0.021 χ^2/NDF : 75.6/54

Out: 0.025 ± 0.020 χ^2/NDF : 115.6/58

All: 0.003 ± 0.014 χ^2/NDF : 193.8/113

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.350 $\pm$ 0.015 χ^2 /NDF: 31757164.0/31

Left Out: 4075.147 $\pm$ 0.677 χ^2 /NDF:417511.0/24

Right Out: 17.276 $\pm$ 0.014 χ^2 /NDF: 31008993.5/33

Left In: 4113.993 $\pm$ 0.703 χ^2 /NDF:349160.6/22

Left: 4093.835 $\pm$ 0.488 χ^2 /NDF: 768256.5/47

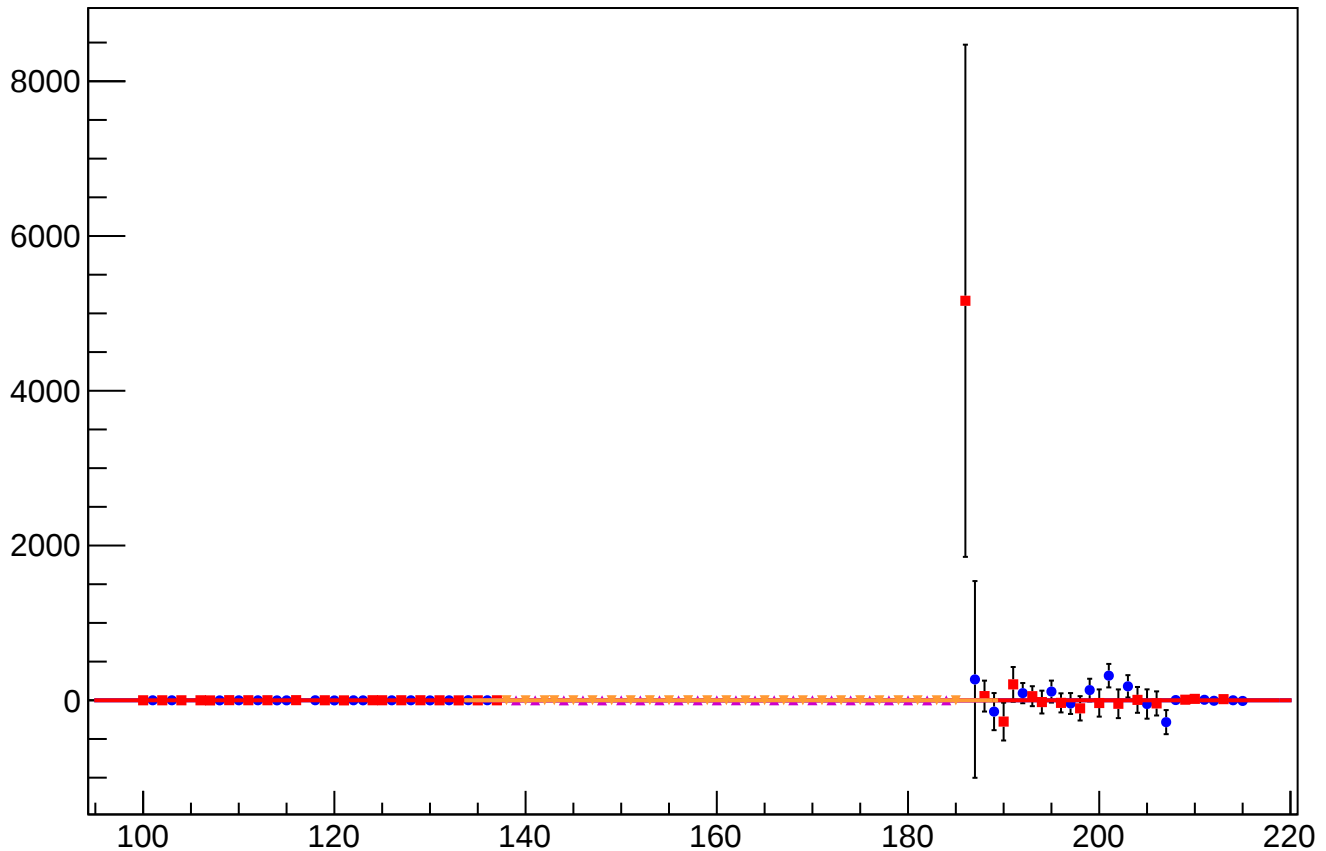
Right: 17.311 $\pm$ 0.010 χ^2 /NDF: 62766170.8/65

In: 19.141 $\pm$ 0.015 χ^2 /NDF:66059528.0/54

Out: 19.007 $\pm$ 0.014 χ^2 /NDF:67361908.9/58

All: 19.071 $\pm$ 0.010 χ^2 /NDF: 133421480.7/11

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 28.6/31

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

Right Out: -0.001 ± 0.002 χ^2/NDF : 35.7/33

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

Left: 0.038 ± 0.055 χ^2/NDF : 56.3/47

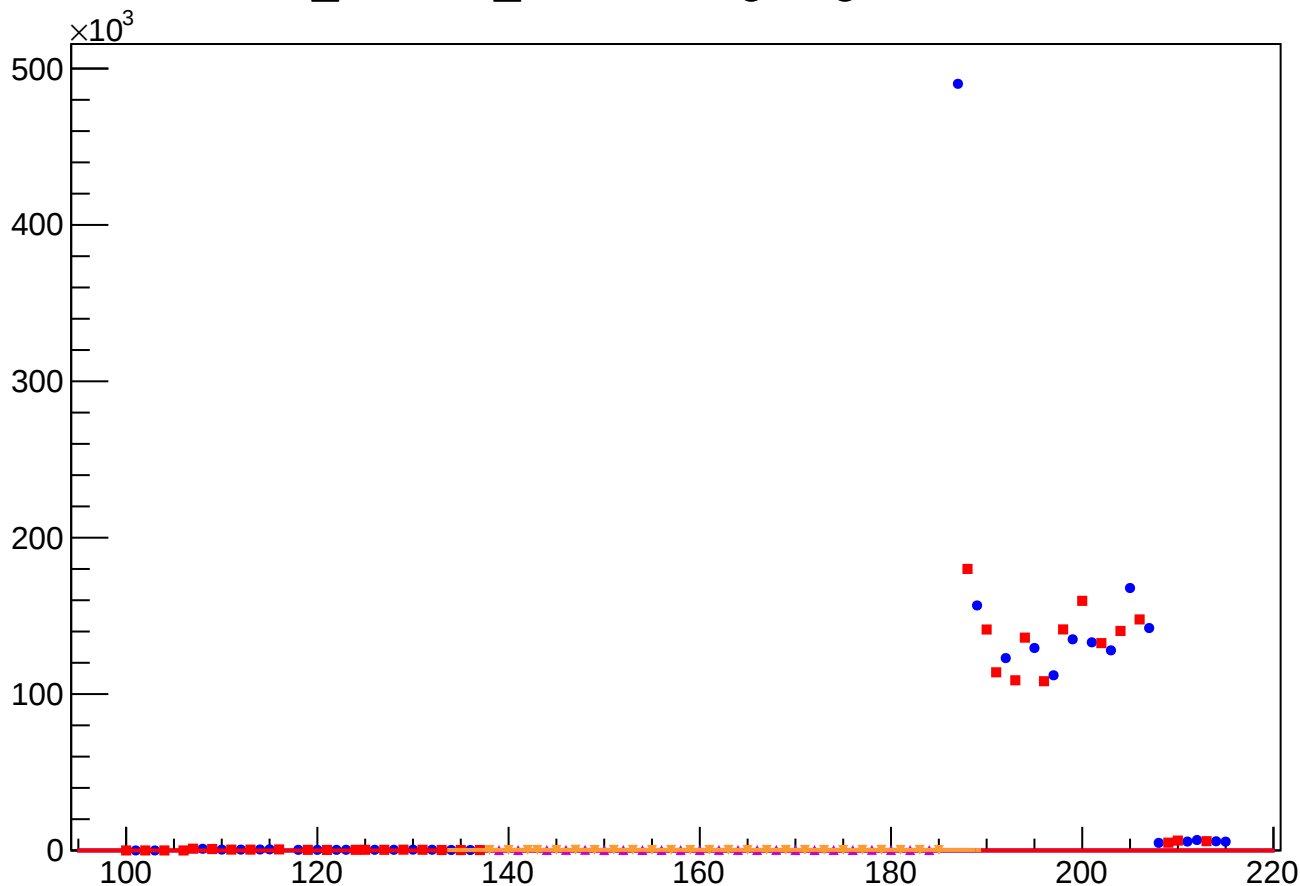
Right: -0.000 ± 0.001 χ^2/NDF : 64.5/65

In: 0.000 ± 0.002 χ^2/NDF : 64.3/54

Out: -0.001 ± 0.002 χ^2/NDF : 56.9/58

All: -0.000 ± 0.001 χ^2/NDF : 121.3/113

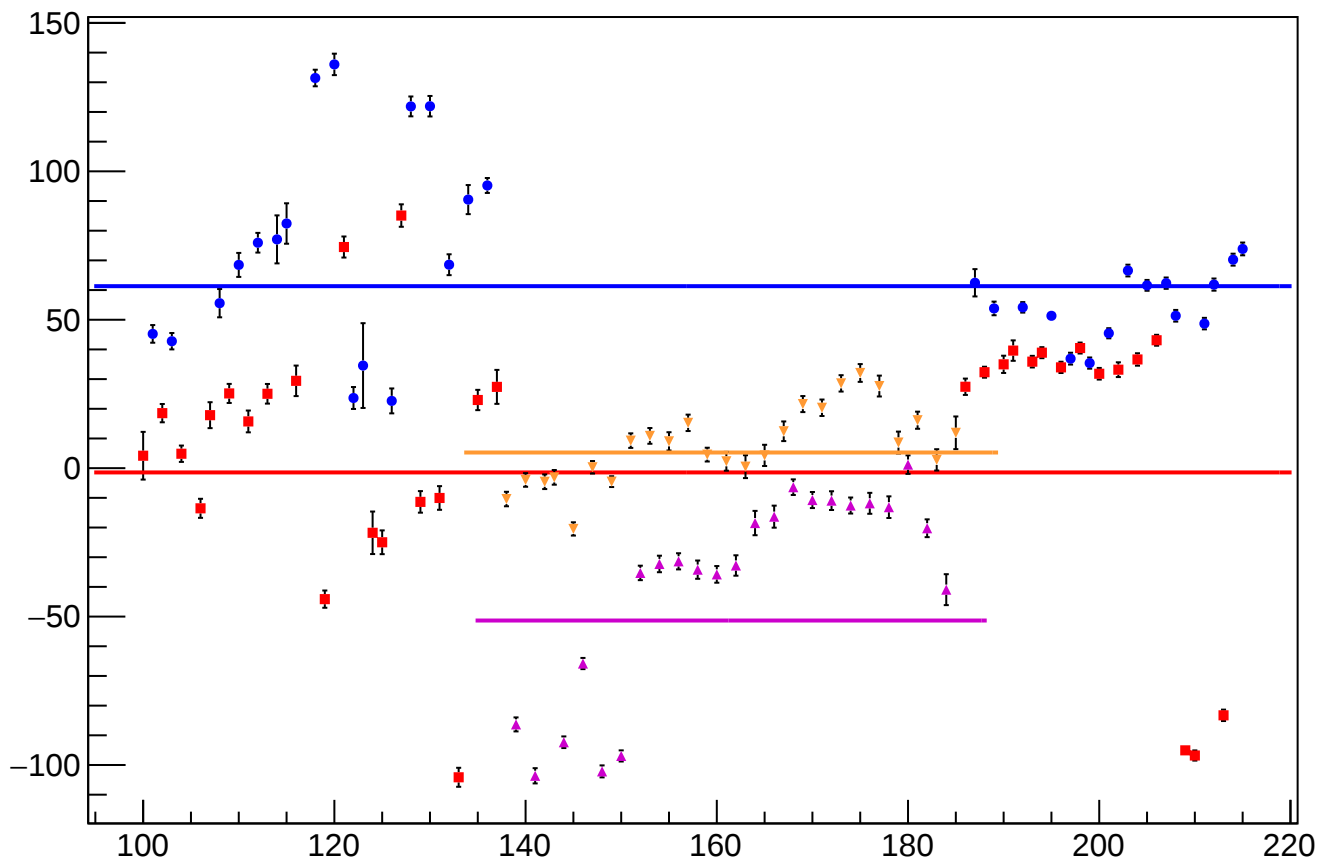
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.702 $\pm$ 0.001 χ^2 /NDF: 32017854.9/31
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.730 $\pm$ 0.001 χ^2 /NDF: 29949251.2/32
 Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47
 Right: 1.716 $\pm$ 0.001 χ^2 /NDF: 61967307.1/64
 In: 1.915 $\pm$ 0.001 χ^2 /NDF:66159449.6/54
 Out: 1.938 $\pm$ 0.001 χ^2 /NDF:66156427.7/57
 All: 1.927 $\pm$ 0.001 χ^2 /NDF: 132316010.6/112

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.312 ± 0.442 $\chi^2/\text{NDF}: 2836.4/31$

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

Right Out: -1.437 ± 0.435 $\chi^2/\text{NDF}: 16407.2/33$

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

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

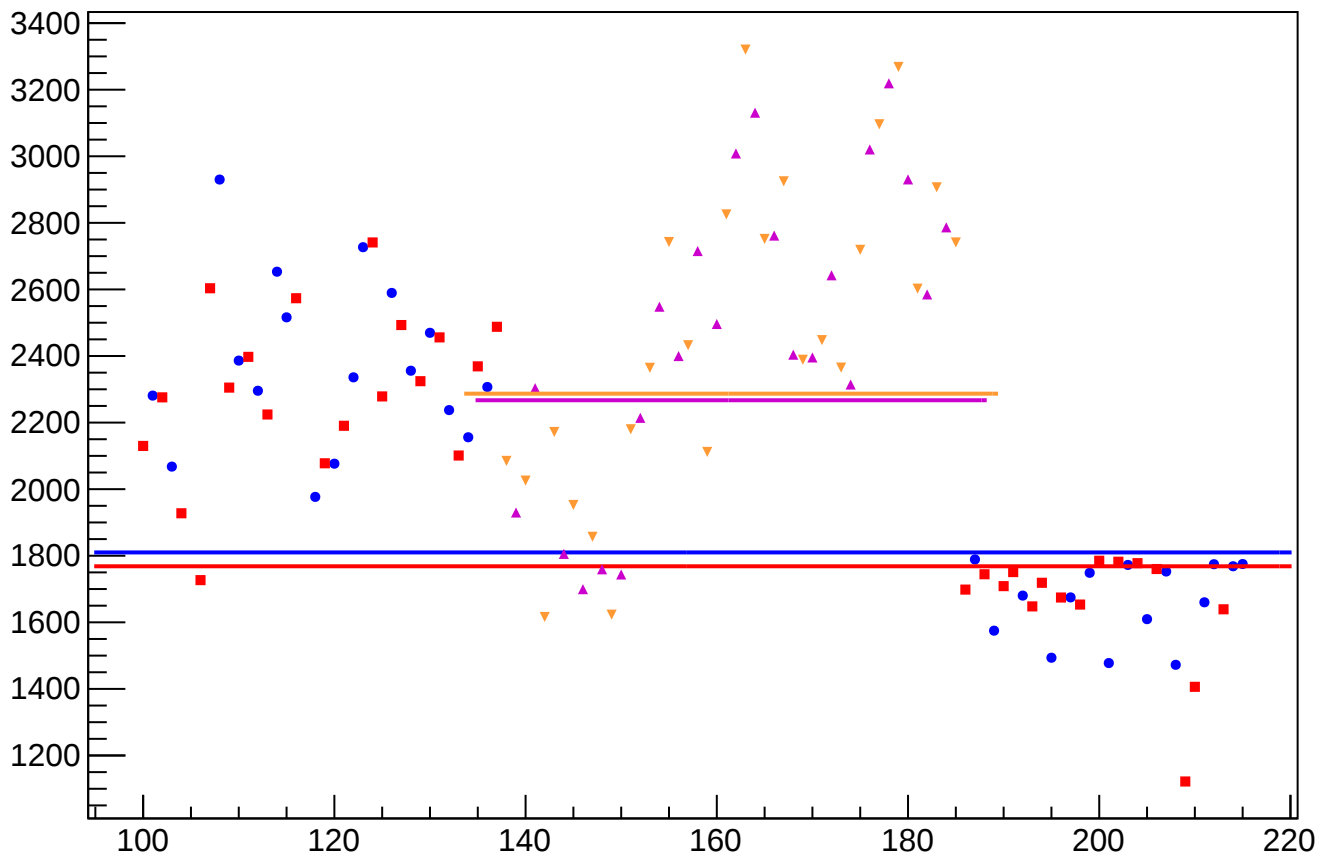
Right: 29.429 ± 0.310 $\chi^2/\text{NDF}: 29480.7/65$

In: 17.909 ± 0.347 $\chi^2/\text{NDF}: 32109.9/54$

Out: 1.180 ± 0.340 $\chi^2/\text{NDF}: 17056.3/58$

All: 9.378 ± 0.243 $\chi^2/\text{NDF}: 50354.2/113$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1809.973+/-0.313

χ^2/NDF : 974491.9/31

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

Right: 1788.815+/-0.219 χ^2/NDF : 2340722.3/65

Left Out: 2286.871+/-0.385

χ^2/NDF : 1360490.8/24

In: 1986.114+/-0.245 χ^2/NDF : 3111854.1/54

Right Out: 1768.332+/-0.308

χ^2/NDF : 1357214.2/33

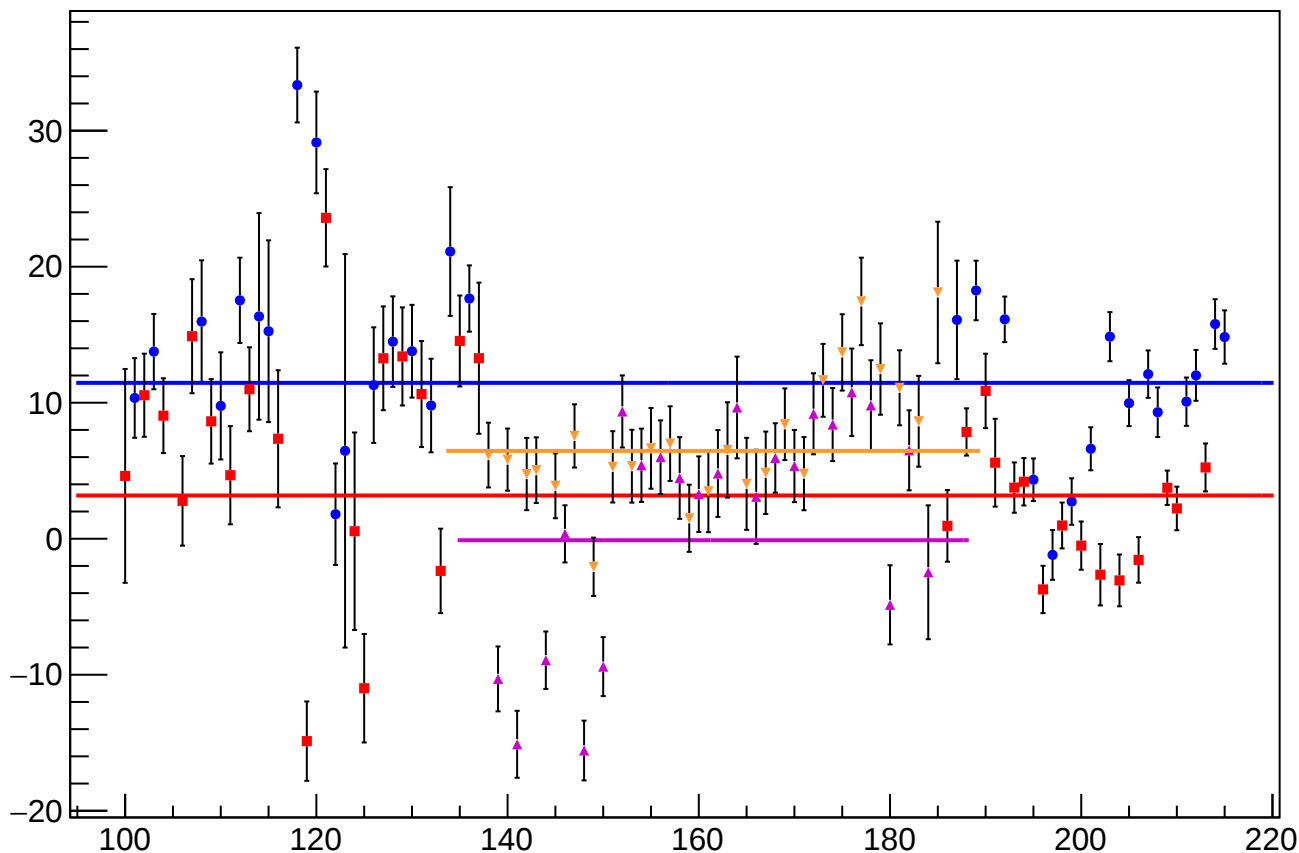
Out: 1970.478+/-0.240 χ^2/NDF : 3825758.9/58

Left In: 2267.097+/-0.395

χ^2/NDF : 1313364.4/22

All: 1978.140+/-0.172 χ^2/NDF : 6939688.9/11

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.461 $\pm$ 0.414 χ^2 /NDF: 249.0/31

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

Right Out: 3.179 $\pm$ 0.410 χ^2 /NDF: 214.9/33

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

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

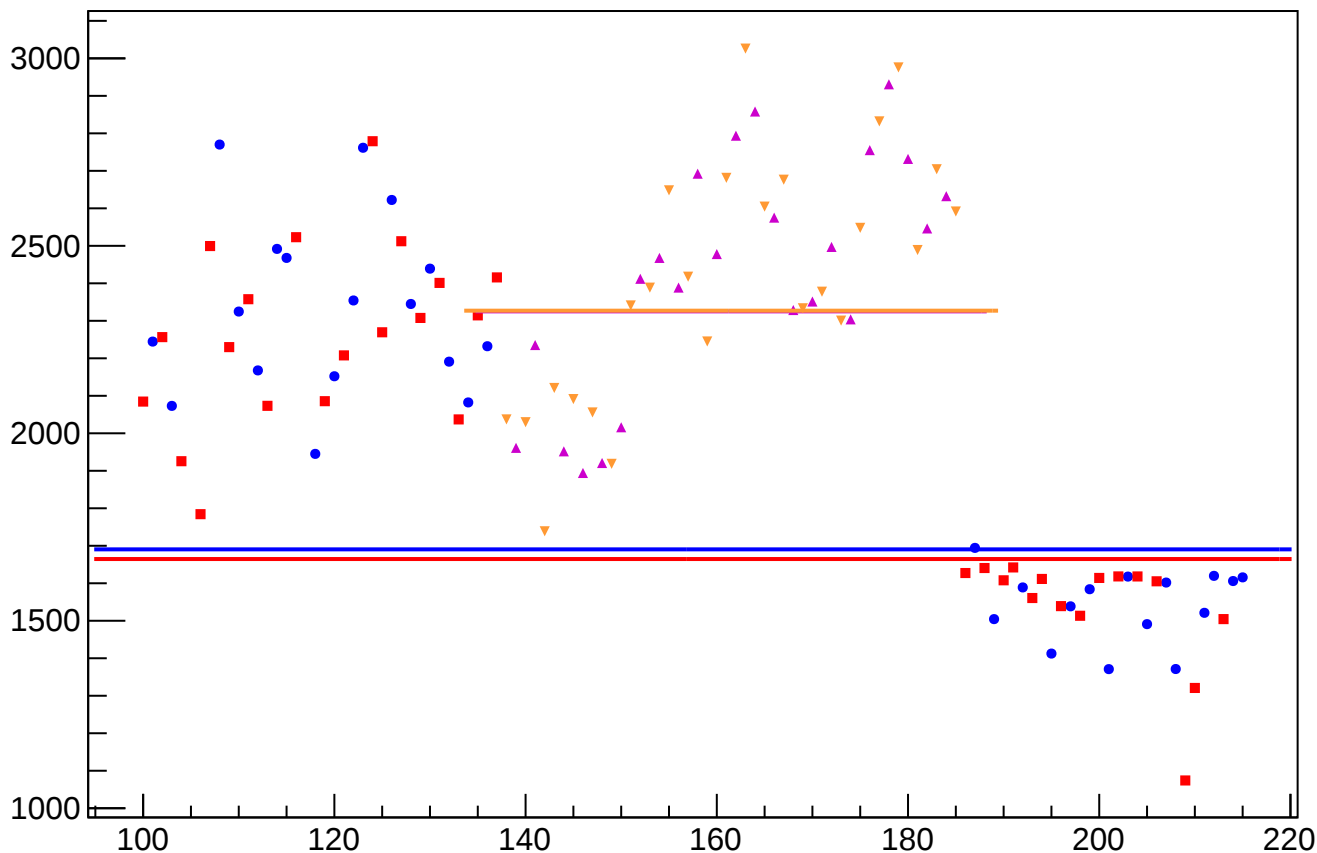
Right: 7.283 $\pm$ 0.291 χ^2 /NDF: 665.7/65

In: 7.419 $\pm$ 0.334 χ^2 /NDF:756.4/54

Out: 4.359 $\pm$ 0.328 χ^2 /NDF:296.6/58

All: 5.863 $\pm$ 0.234 χ^2 /NDF: 1095.6/113

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1690.457 $\pm$ 0.293 χ^2 /NDF: 1233142.9/31

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

Right Out: 1664.642 $\pm$ 0.290 χ^2 /NDF: 1557281.2/33

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

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

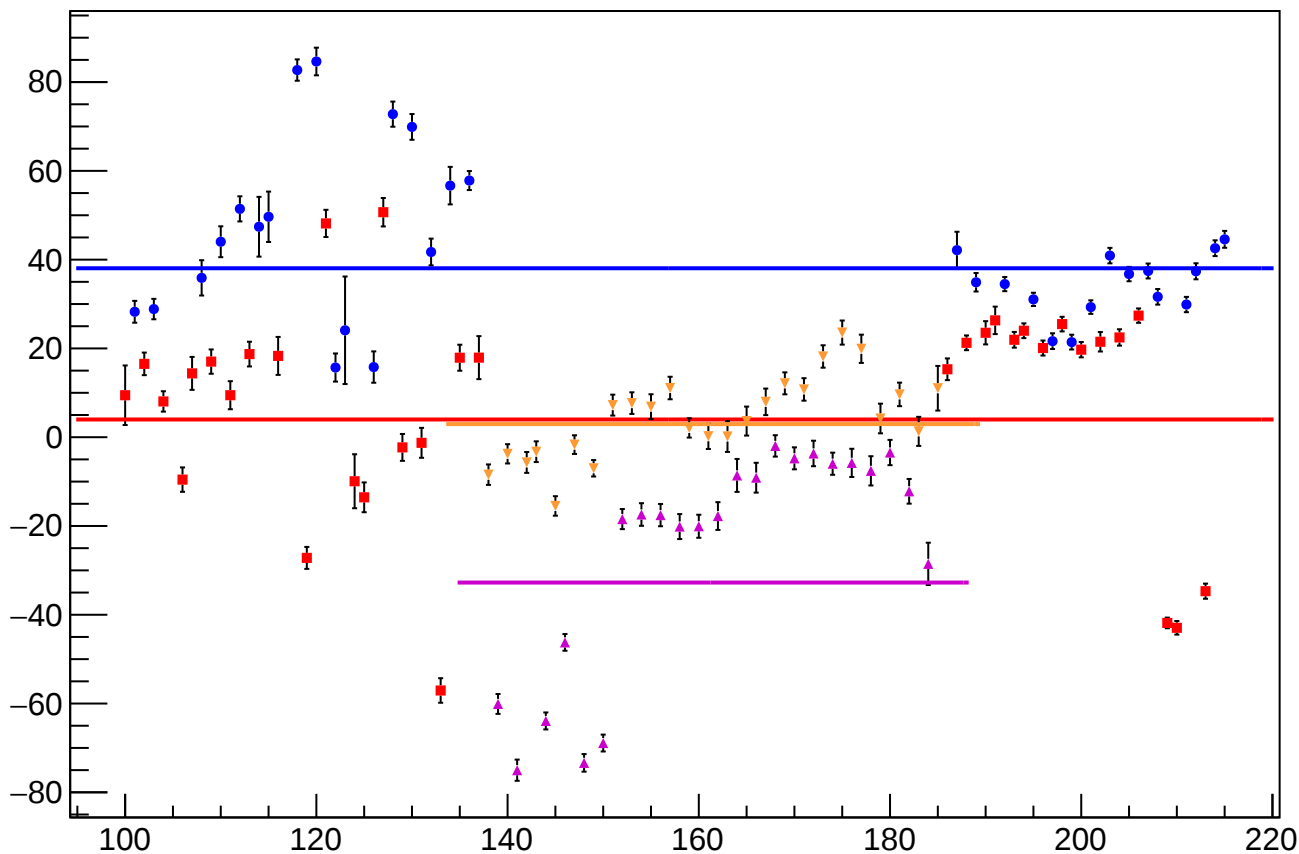
Right: 1677.435 $\pm$ 0.206 χ^2 /NDF: 2794345.8/65

In: 1912.155 $\pm$ 0.236 χ^2 /NDF: 3485388.9/54

Out: 1902.907 $\pm$ 0.232 χ^2 /NDF: 4078098.6/58

All: 1907.453 $\pm$ 0.166 χ^2 /NDF: 7564267.1/111

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.058 ± 0.389 $\chi^2/\text{NDF}: 1405.1/31$

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

Right Out: 3.992 ± 0.383 $\chi^2/\text{NDF}: 5376.2/33$

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

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

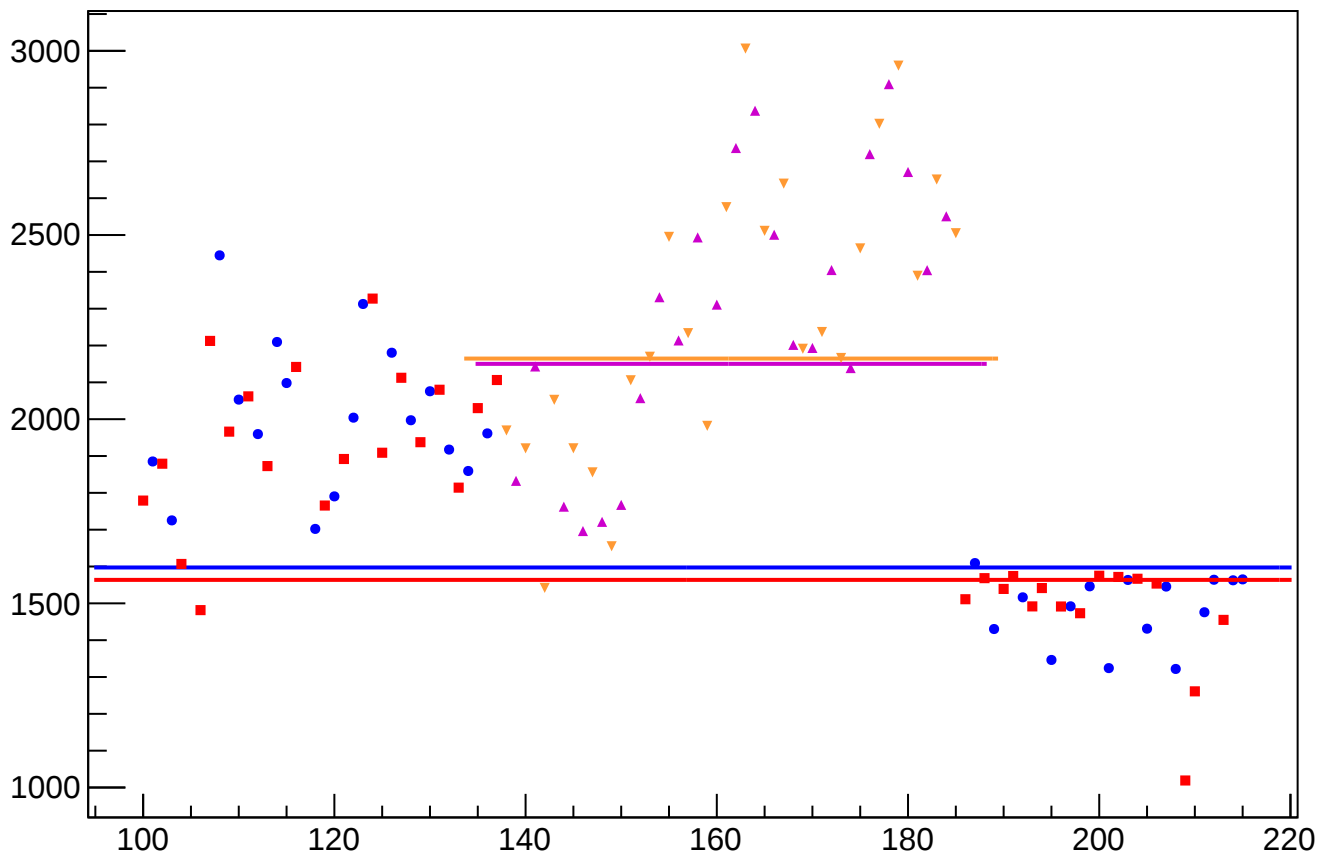
Right: 20.775 ± 0.273 $\chi^2/\text{NDF}: 10681.3/65$

In: 13.071 ± 0.313 $\chi^2/\text{NDF}: 15756.9/54$

Out: 3.619 ± 0.307 $\chi^2/\text{NDF}: 5716.6/58$

All: 8.254 ± 0.219 $\chi^2/\text{NDF}: 21939.5/113$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1597.390 ± 0.275 $\chi^2/\text{NDF}: 743551.3/31$

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

Right Out: 1563.701 ± 0.271 $\chi^2/\text{NDF}: 1080834.6/33$

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

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

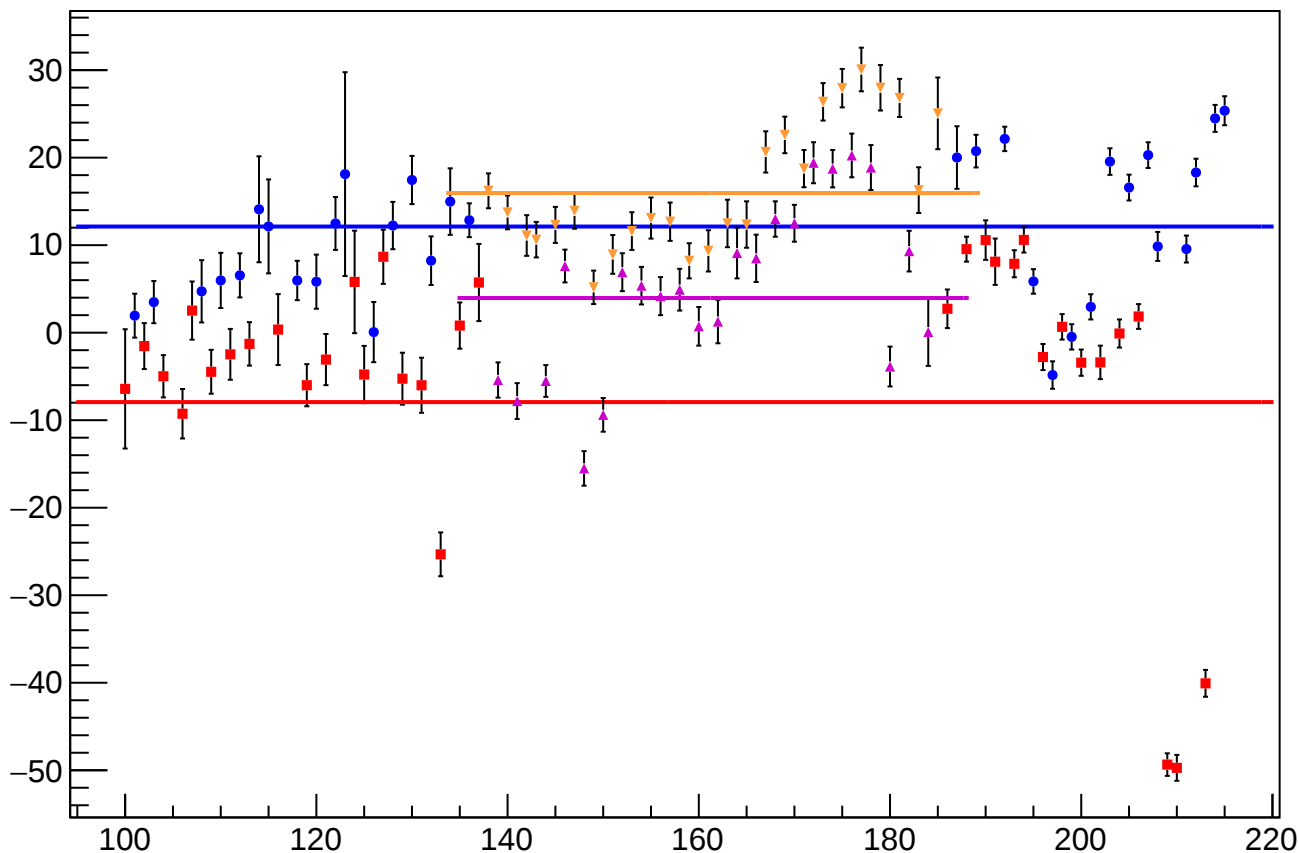
Right: 1580.298 ± 0.193 $\chi^2/\text{NDF}: 1832014.4/65$

In: 1792.480 ± 0.221 $\chi^2/\text{NDF}: 3084150.8/54$

Out: 1779.249 ± 0.217 $\chi^2/\text{NDF}: 3813392.7/58$

All: 1785.738 ± 0.155 $\chi^2/\text{NDF}: 6899370.0/11$

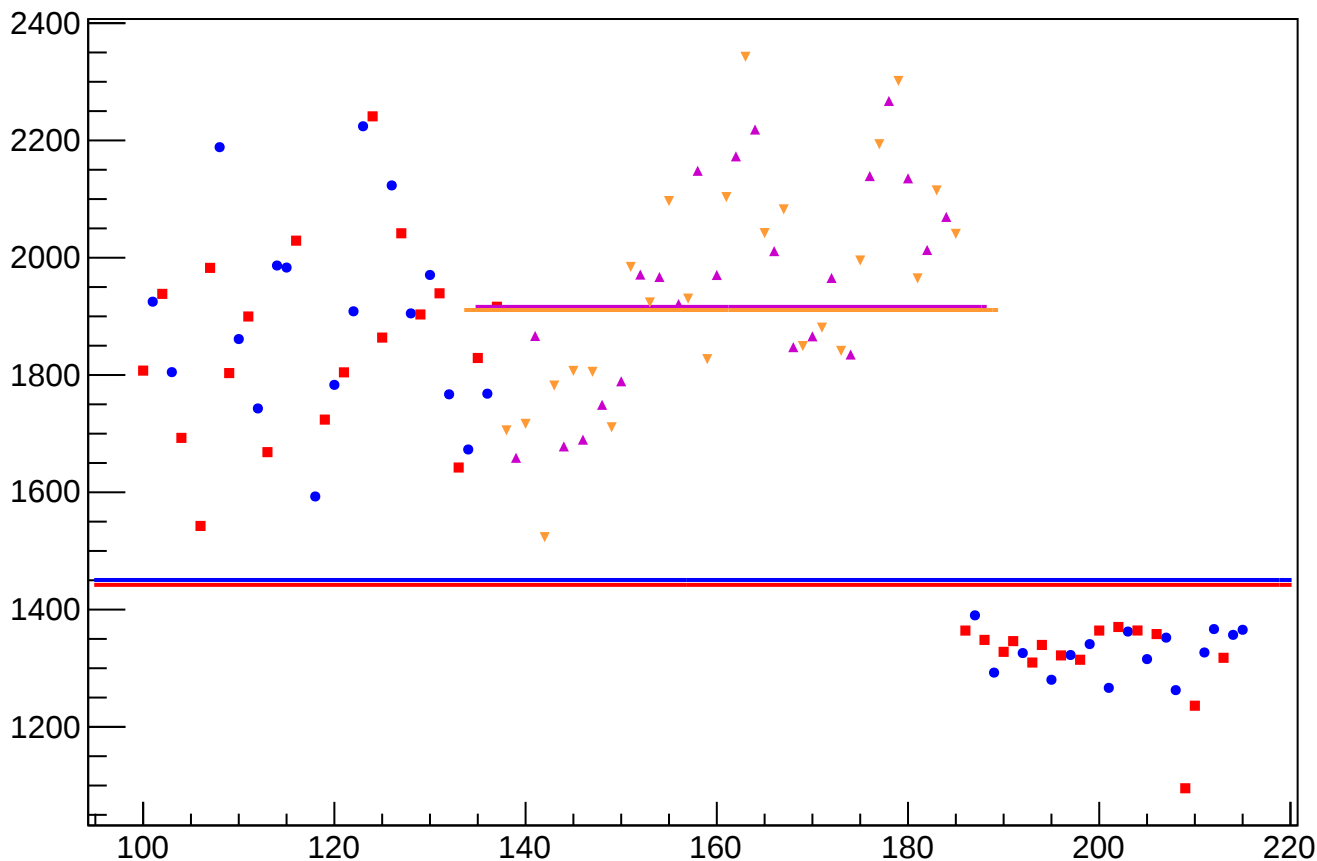
diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.127+/-0.352 χ^2/NDF : 616.3/31
 Left Out: 15.956+/-0.447 χ^2/NDF : 245.2/24
 Right Out: -7.930+/-0.352 χ^2/NDF : 3091.7/33
 Left In: 3.960+/-0.463 χ^2/NDF : 464.9/22

Left: 10.161+/-0.322 χ^2/NDF : 1057.3/47
 Right: 2.080+/-0.249 χ^2/NDF : 5330.8/65
 In: 9.130+/-0.280 χ^2/NDF : 1278.4/54
 Out: 1.194+/-0.277 χ^2/NDF : 5098.4/58
 All: 5.107+/-0.197 χ^2/NDF : 6782.9/113

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1450.499 $\pm$ 0.249 χ^2 /NDF: 881372.9/31

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

Right Out: 1442.173 $\pm$ 0.249 χ^2 /NDF: 973059.8/33

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

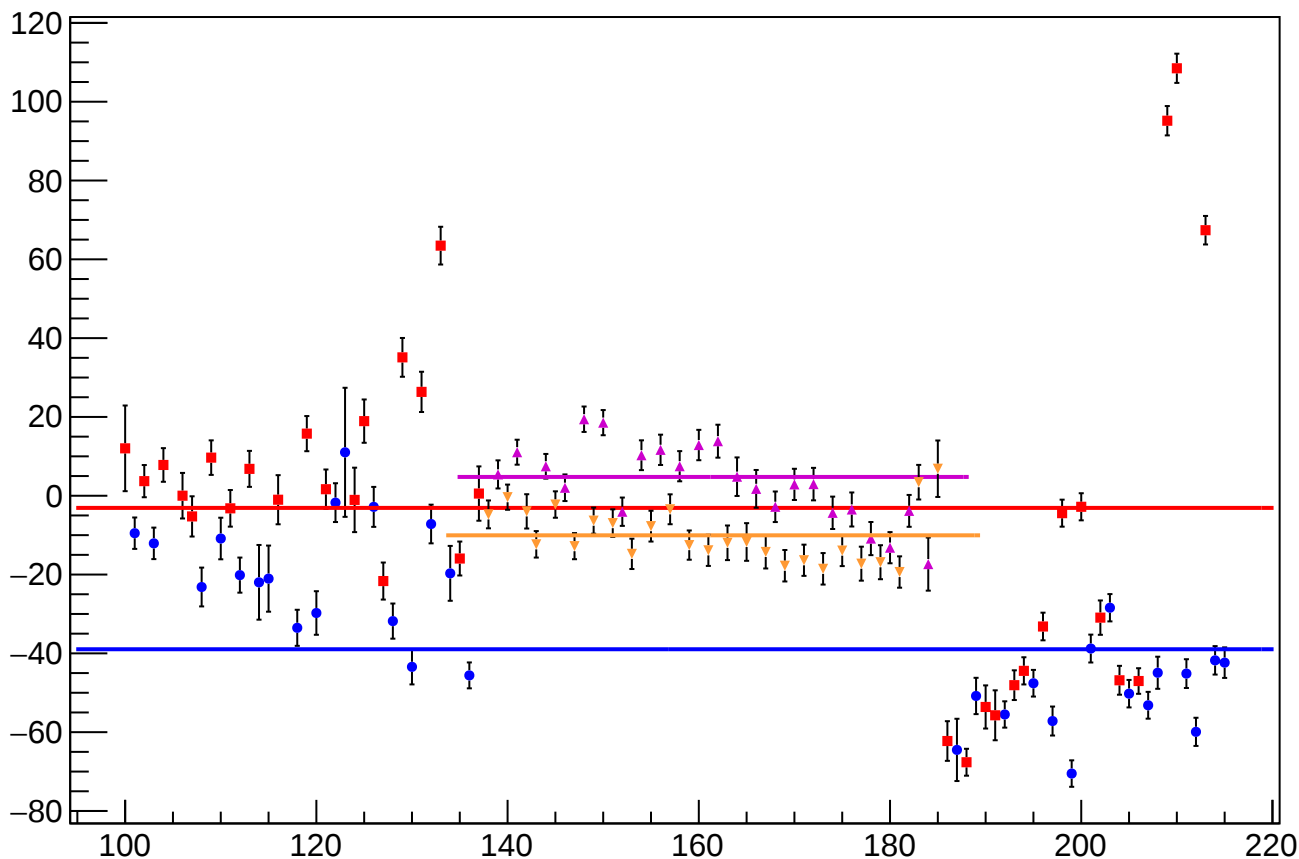
Right: 1446.329 $\pm$ 0.176 χ^2 /NDF: 1854992.0/65

In: 1621.390 $\pm$ 0.198 χ^2 /NDF: 2437227.5/54

Out: 1621.207 $\pm$ 0.196 χ^2 /NDF: 2658417.7/58

All: 1621.297 $\pm$ 0.139 χ^2 /NDF: 5095645.6/111

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.957 ± 0.748 $\chi^2/\text{NDF}: 581.6/31$

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

Right Out: -3.083 ± 0.750 $\chi^2/\text{NDF}: 3726.8/33$

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

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

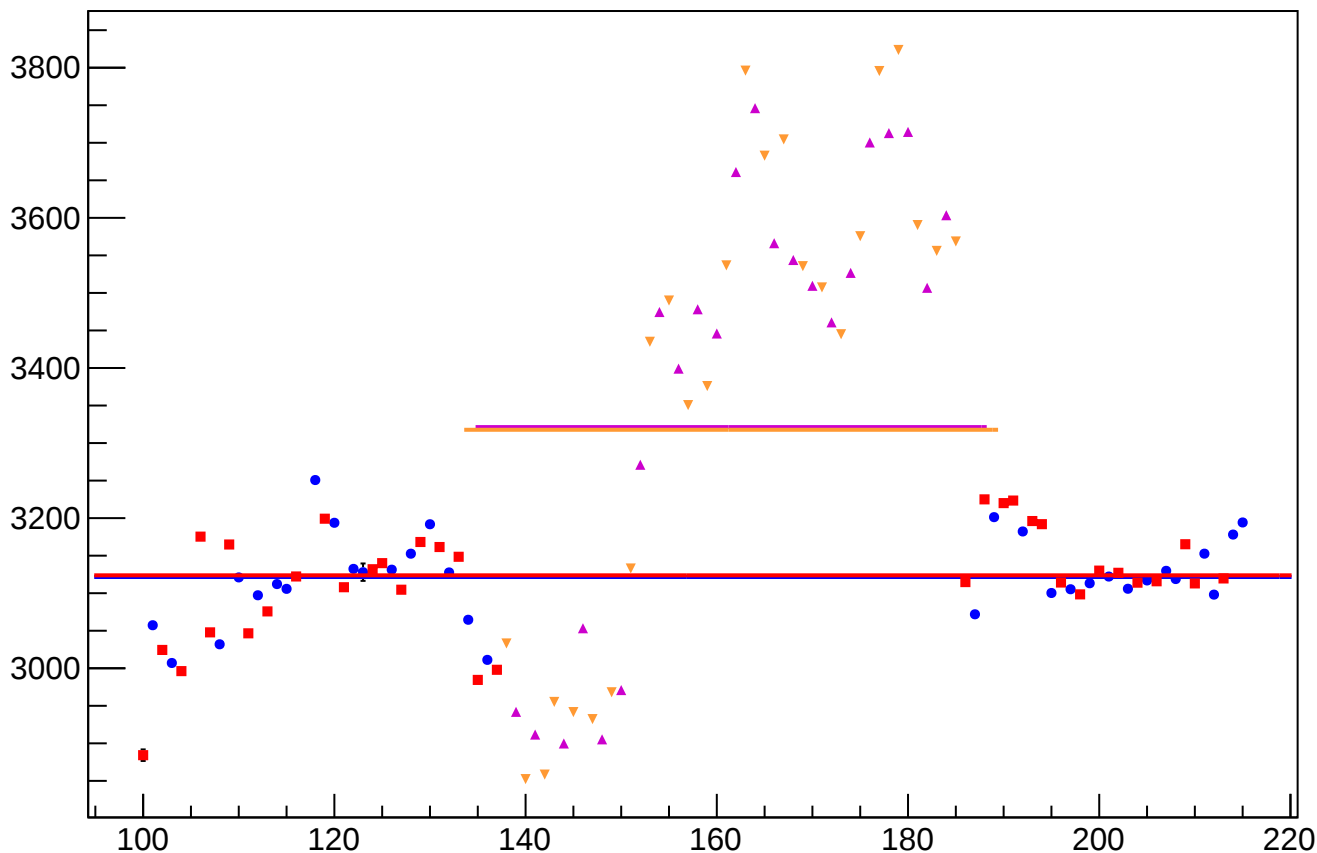
Right: -21.082 ± 0.530 $\chi^2/\text{NDF}: 5455.9/65$

In: -18.585 ± 0.546 $\chi^2/\text{NDF}: 2304.3/54$

Out: -6.443 ± 0.539 $\chi^2/\text{NDF}: 3835.5/58$

All: -12.437 ± 0.384 $\chi^2/\text{NDF}: 6389.9/113$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3121.592 $\pm$ 0.529 χ^2 /NDF: 10782.8/31

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

Right Out: 3123.817 $\pm$ 0.530 χ^2 /NDF: 14038.2/33

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

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

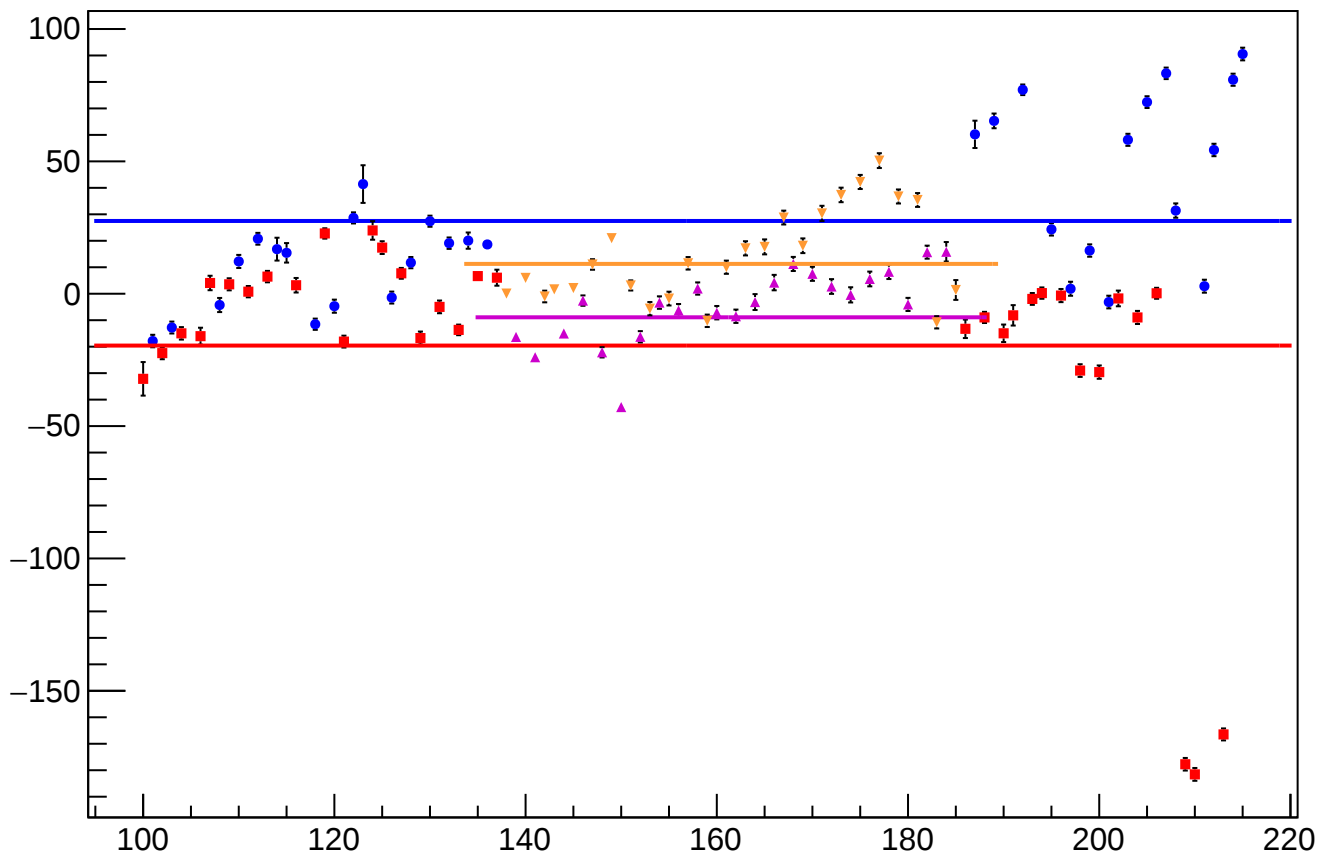
Right: 3122.701 $\pm$ 0.374 χ^2 /NDF: 24829.9/65

In: 3214.615 $\pm$ 0.386 χ^2 /NDF:361595.0/54

Out: 3217.434 $\pm$ 0.381 χ^2 /NDF:415423.0/58

All: 3216.042 $\pm$ 0.271 χ^2 /NDF: 777044.9/113

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 27.486 $\pm$ 0.418 χ^2 /NDF: 5522.2/31

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

Right Out: -19.584 $\pm$ 0.417 χ^2 /NDF: 15369.0/33

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

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

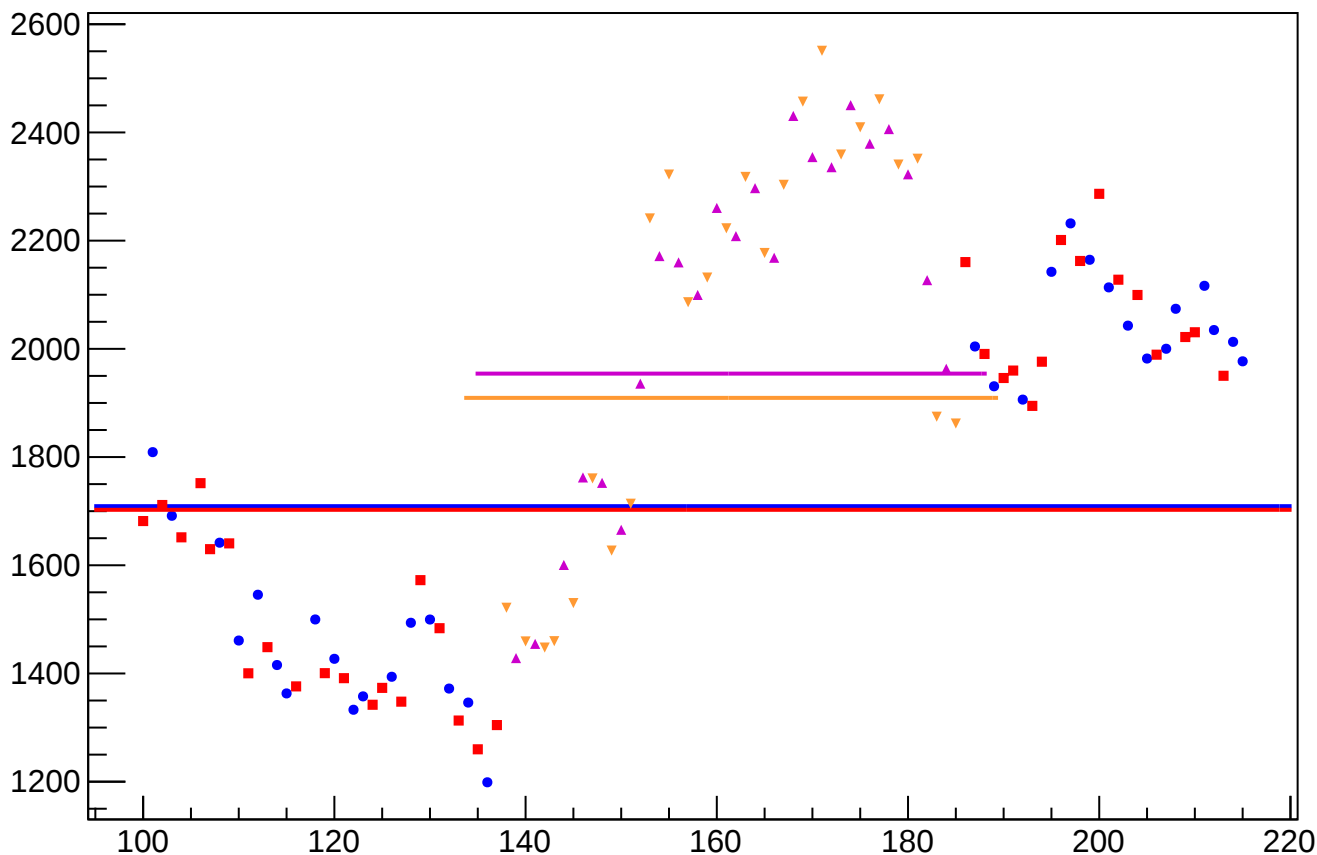
Right: 3.901 $\pm$ 0.295 χ^2 /NDF: 27259.6/65

In: 11.719 $\pm$ 0.314 χ^2 /NDF: 9749.9/54

Out: -5.492 $\pm$ 0.307 χ^2 /NDF: 19015.5/58

All: 2.913 $\pm$ 0.220 χ^2 /NDF: 30299.5/113

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1709.232 $\pm$ 0.295 χ^2 /NDF: 1251899.2/31

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

Right Out: 1702.492 $\pm$ 0.295 χ^2 /NDF: 1183216.8/33

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

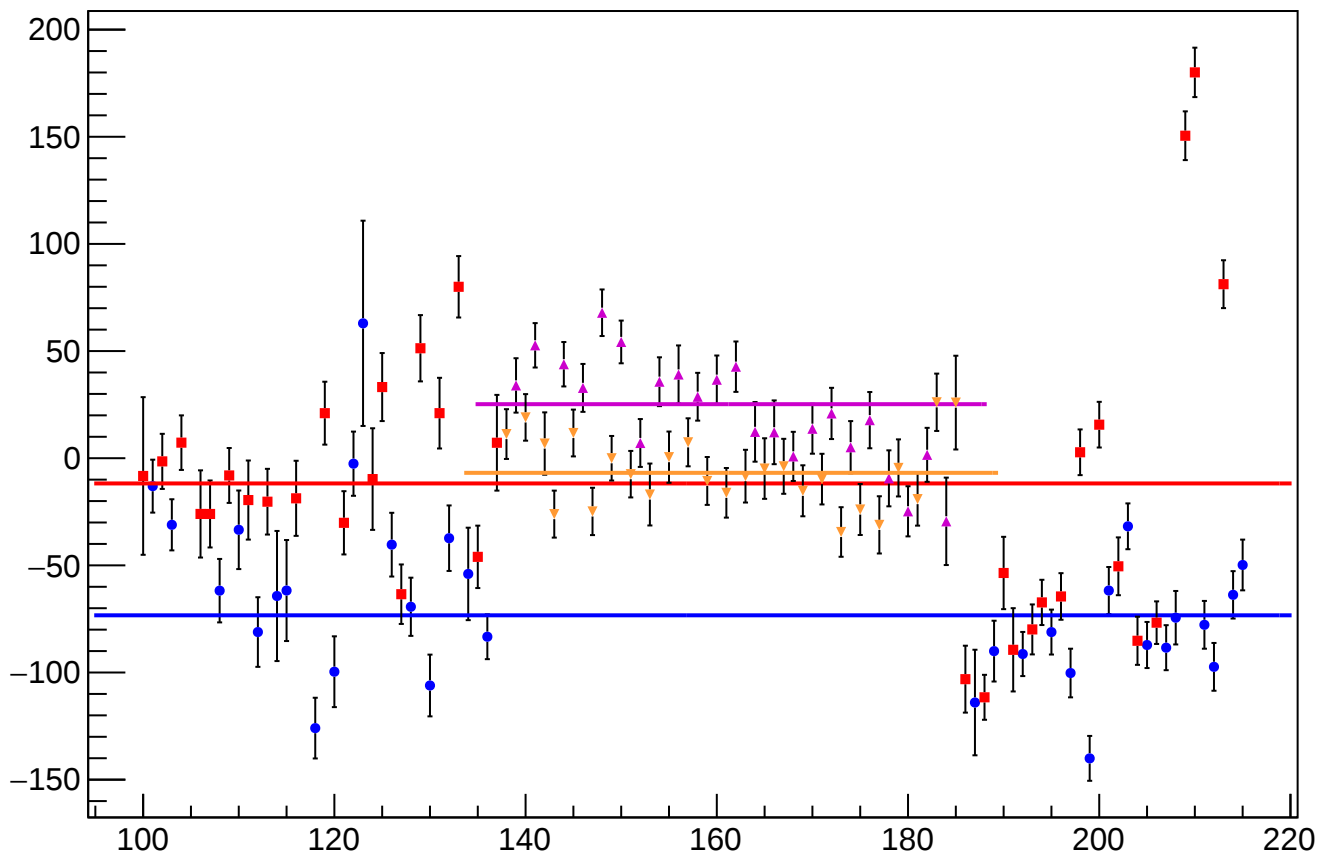
Right: 1705.855 $\pm$ 0.209 χ^2 /NDF: 2435377.1/65

In: 1815.382 $\pm$ 0.222 χ^2 /NDF:2595111.7/54

Out: 1796.995 $\pm$ 0.217 χ^2 /NDF:2806988.7/58

All: 1805.974 $\pm$ 0.155 χ^2 /NDF: 5405602.4/11

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -73.310 $\pm$ 2.317 χ^2/NDF : 189.9/31

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

Right Out: -11.773 $\pm$ 2.330 χ^2/NDF : 984.9/33

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

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

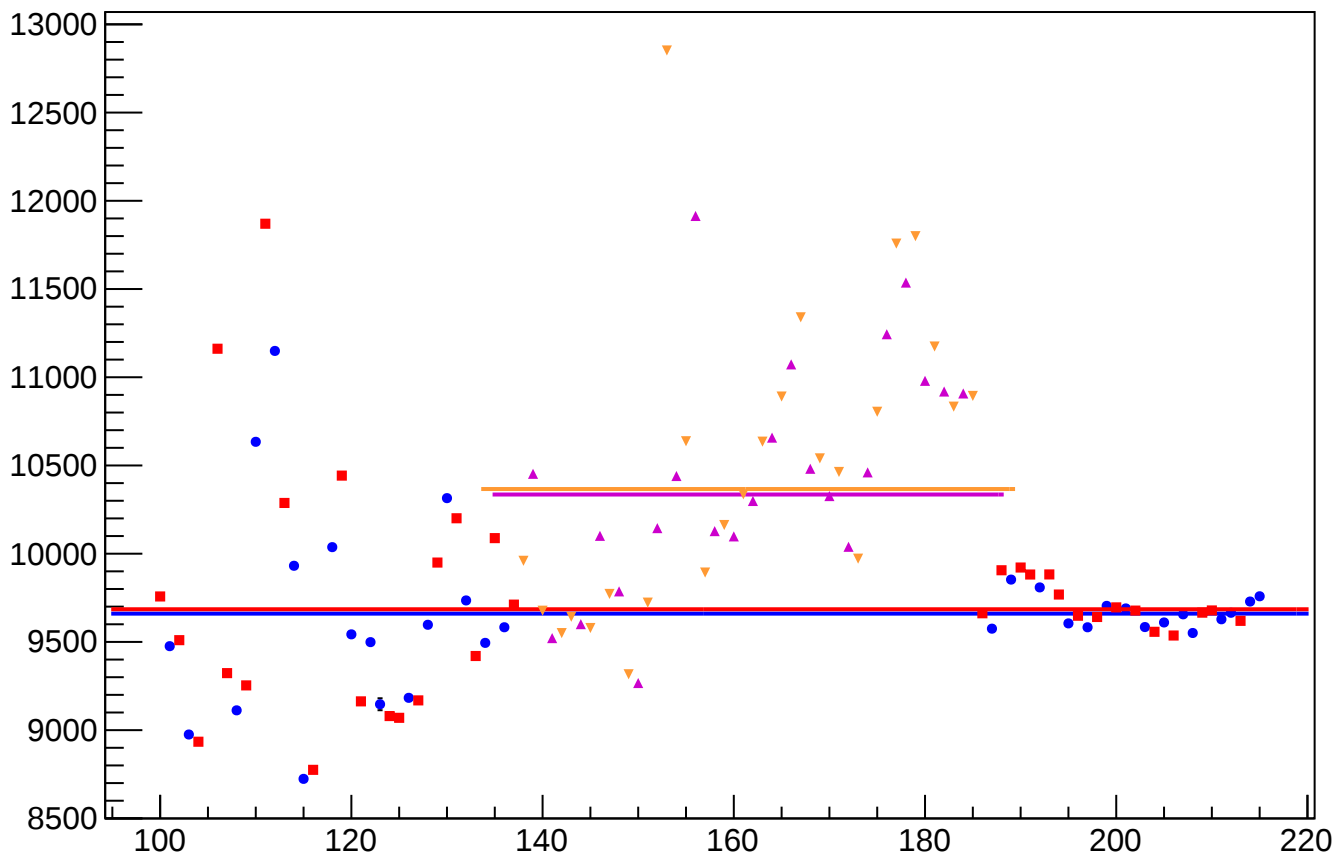
Right: -42.716 $\pm$ 1.643 χ^2/NDF : 1525.4/65

In: -27.521 $\pm$ 1.695 χ^2/NDF : 1119.5/54

Out: -9.395 $\pm$ 1.679 χ^2/NDF : 1029.4/58

All: -18.373 $\pm$ 1.193 χ^2/NDF : 2206.5/113

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9660.369+/-1.638 χ^2/NDF : 45562.3/31

Left Out: 10366.534+/-1.713 χ^2/NDF : 211402.8/24

Right Out: 9685.110+/-1.648 χ^2/NDF : 80423.2/33

Left In: 10335.399+/-1.758 χ^2/NDF : 127173.0/22

Left: 10351.373+/-1.227 χ^2/NDF : 338736.7/47

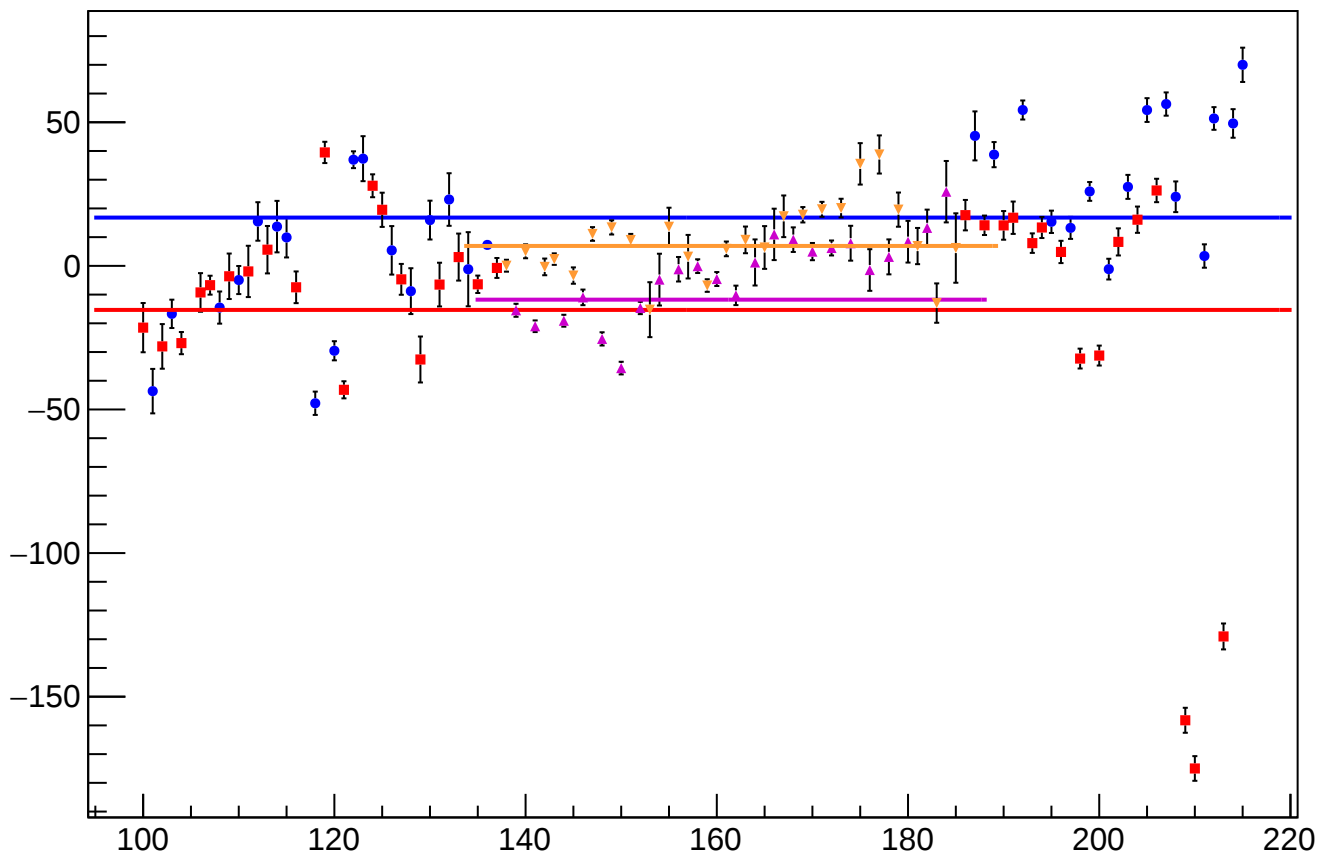
Right: 9672.669+/-1.162 χ^2/NDF : 126098.9/65

In: 9974.088+/-1.199 χ^2/NDF : 251625.6/54

Out: 10012.597+/-1.188 χ^2/NDF : 374018.6/58

All: 9993.523+/-0.844 χ^2/NDF : 626165.1/113

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 16.814 ± 0.757 $\chi^2/\text{NDF}: 1298.8/31$

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

Right Out: -15.335 ± 0.759 $\chi^2/\text{NDF}: 4166.7/33$

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

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

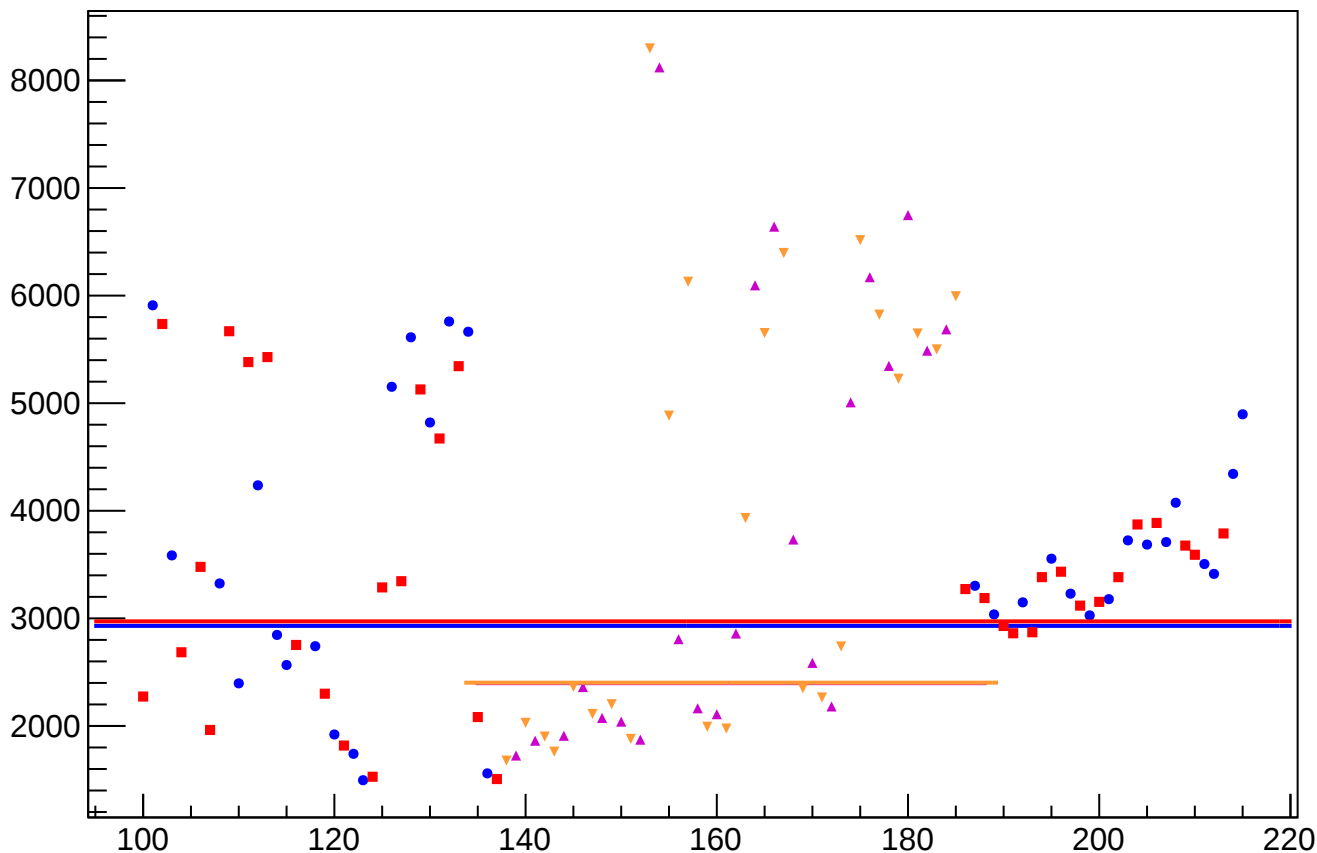
Right: 0.775 ± 0.536 $\chi^2/\text{NDF}: 6364.7/65$

In: 0.323 ± 0.492 $\chi^2/\text{NDF}: 2515.8/54$

Out: -2.297 ± 0.489 $\chi^2/\text{NDF}: 4874.8/58$

All: -0.997 ± 0.347 $\chi^2/\text{NDF}: 7404.8/113$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2930.184 ± 0.535 $\chi^2/\text{NDF}: 3945599.0/31$

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

Right Out: 2972.378 ± 0.537 $\chi^2/\text{NDF}: 3052955.4/33$

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

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

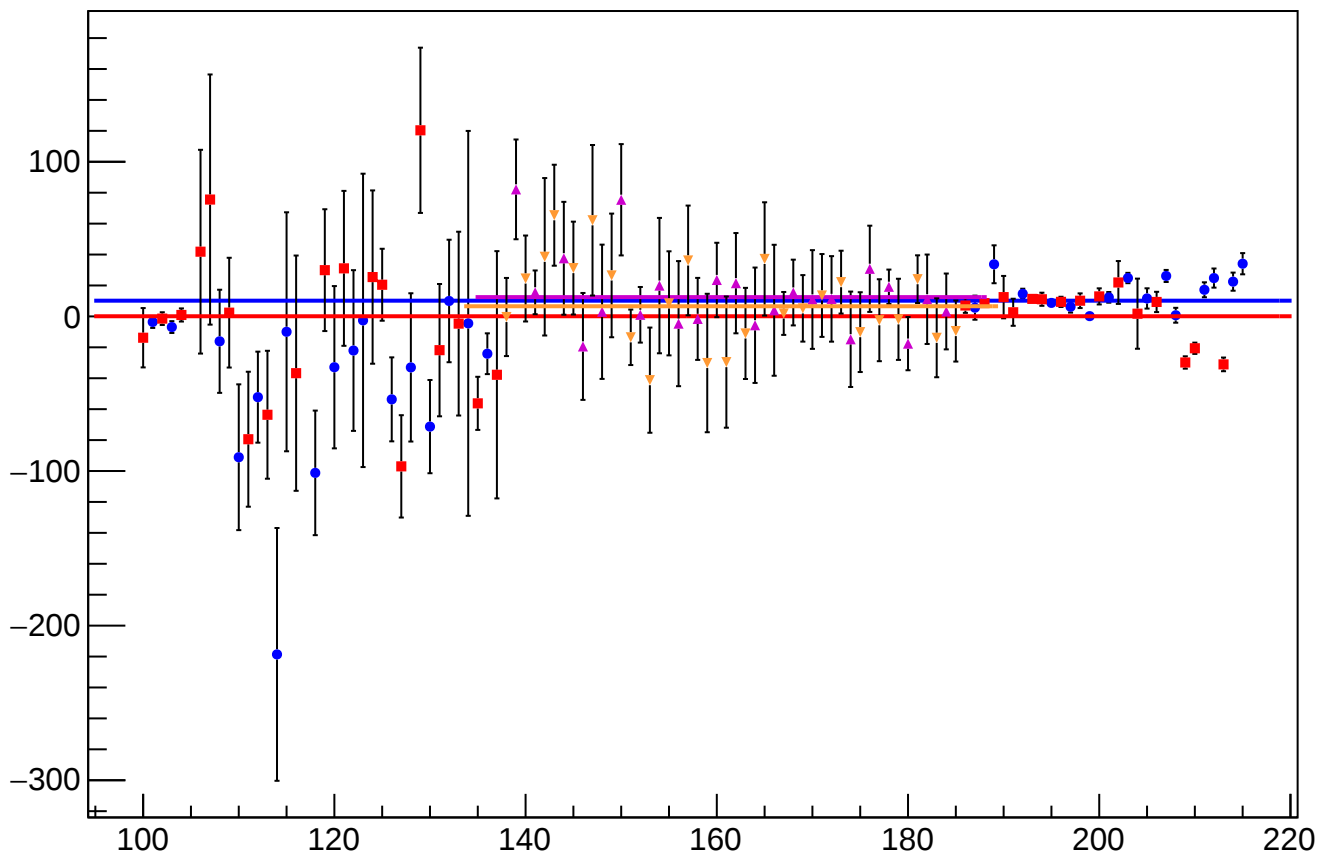
Right: 2951.235 ± 0.379 $\chi^2/\text{NDF}: 7001652.1/65$

In: 2622.931 ± 0.348 $\chi^2/\text{NDF}: 9915131.3/54$

Out: 2638.716 ± 0.346 $\chi^2/\text{NDF}: 10059366.9/58$

All: 2630.885 ± 0.245 $\chi^2/\text{NDF}: 19975533.4/115$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 10.162 $\pm$ 1.020 χ^2/NDF : 161.4/31

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

Right Out: 0.090 $\pm$ 1.076 χ^2/NDF : 227.5/33

Left In: 12.469 $\pm$ 5.025 χ^2/NDF :15.4/22

Left: 9.545 $\pm$ 3.572 χ^2/NDF : 32.8/47

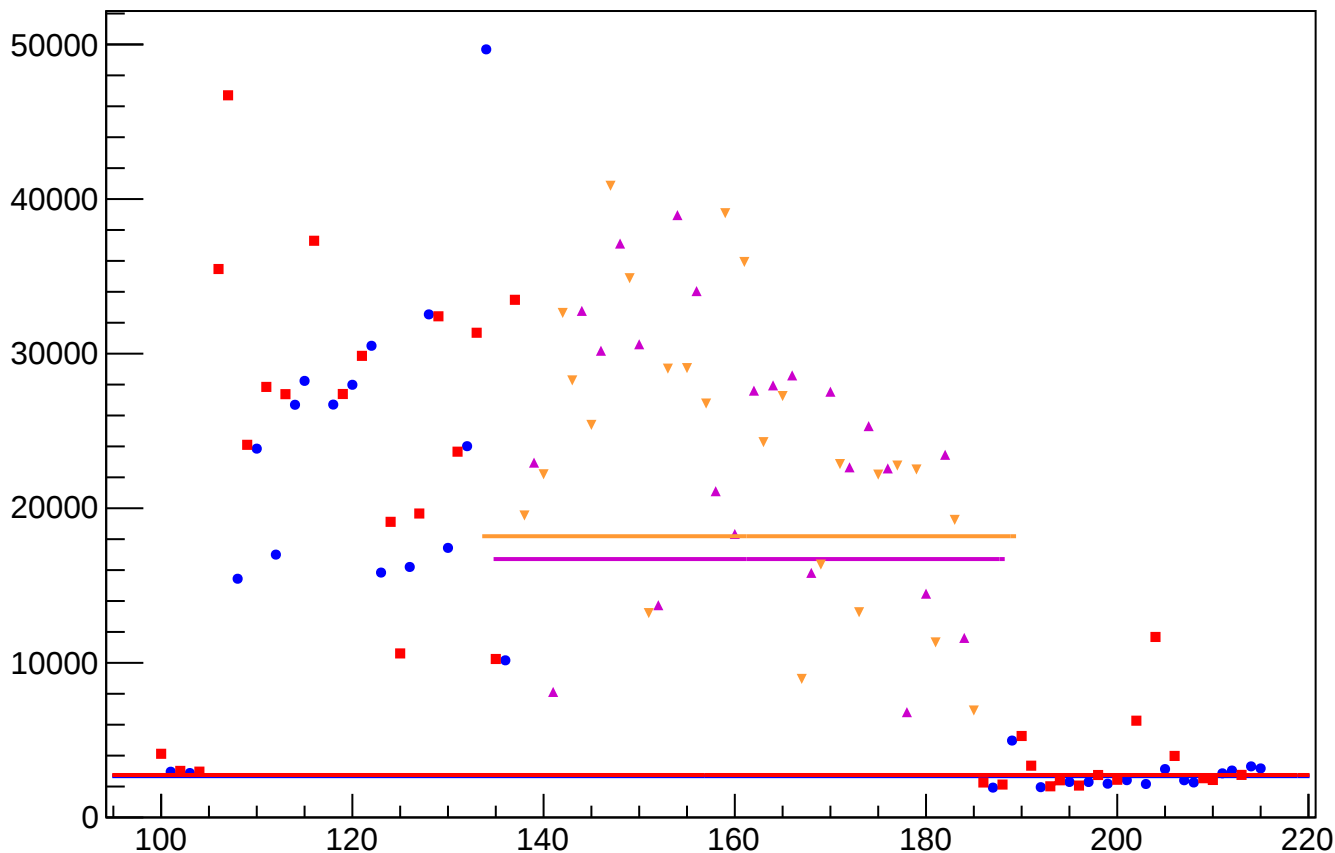
Right: 5.396 $\pm$ 0.740 χ^2/NDF : 435.1/65

In: 10.253 $\pm$ 0.999 χ^2/NDF :177.0/54

Out: 0.368 $\pm$ 1.052 χ^2/NDF :245.8/58

All: 5.567 $\pm$ 0.725 χ^2/NDF : 469.2/113

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2671.015 $\pm$ 0.721 χ^2/NDF : 7046749.2/31

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

Right Out: 2746.995 $\pm$ 0.761 χ^2/NDF : 9079684.0/33

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

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

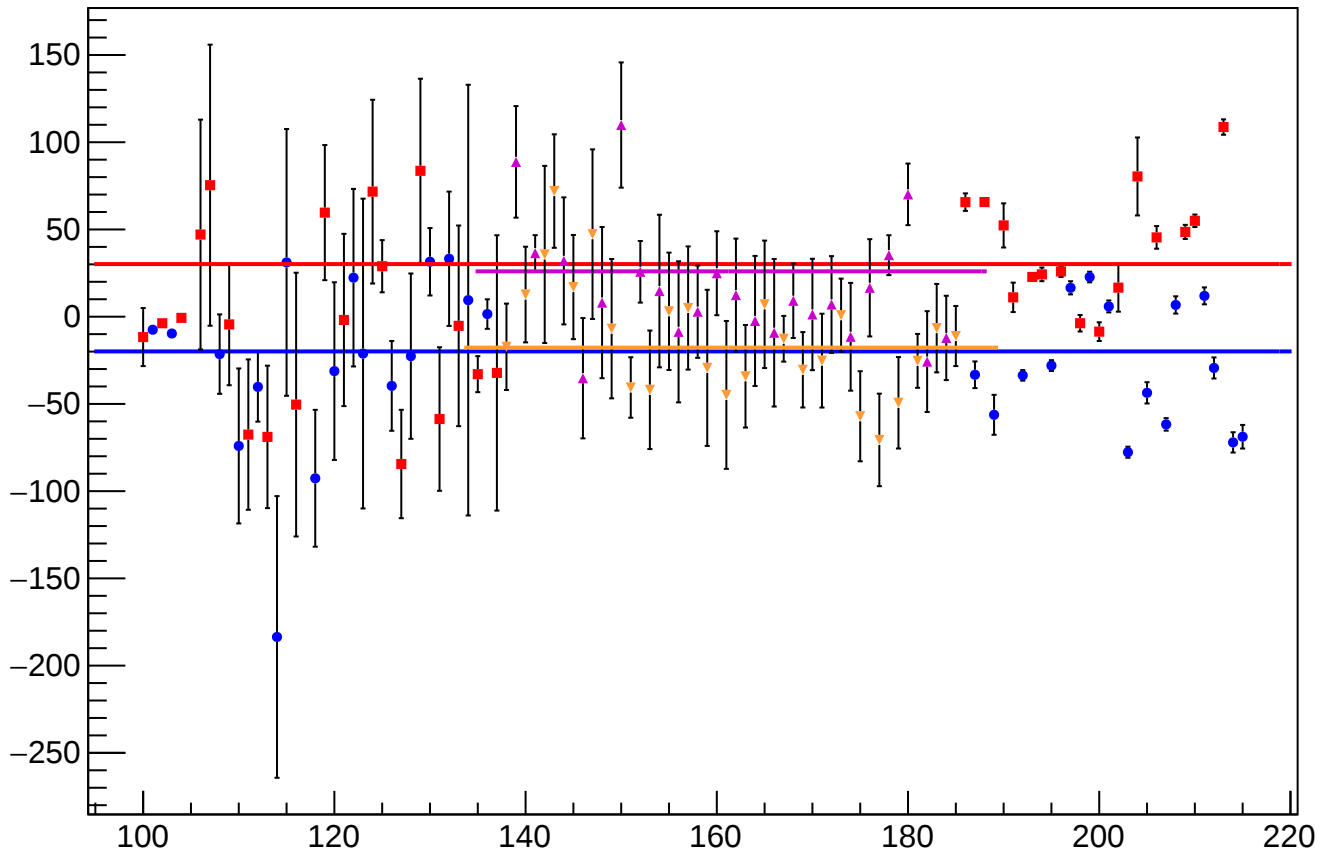
Right: 2706.966 $\pm$ 0.523 χ^2/NDF : 16131689.2/65

In: 3226.149 $\pm$ 0.707 χ^2/NDF : 28240888.0/54

Out: 3410.473 $\pm$ 0.744 χ^2/NDF : 32048493.4/58

All: 3313.529 $\pm$ 0.512 χ^2/NDF : 60321648.3/100

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -19.909 ± 0.918 $\chi^2/\text{NDF}: 1143.9/31$

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

Right Out: 30.157 ± 0.970 $\chi^2/\text{NDF}: 1083.7/33$

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

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

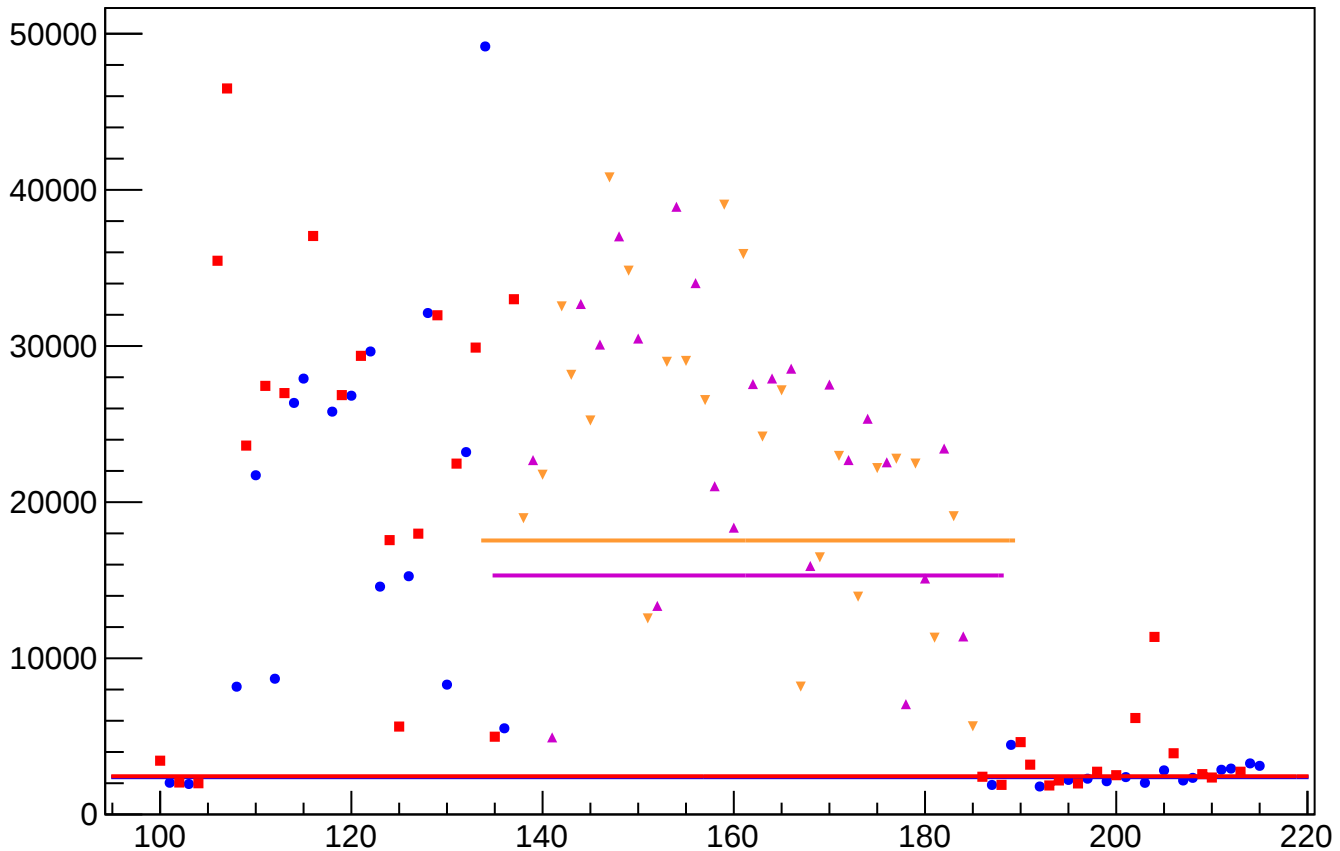
Right: 3.761 ± 0.667 $\chi^2/\text{NDF}: 3632.6/65$

In: -18.281 ± 0.902 $\chi^2/\text{NDF}: 1265.1/54$

Out: 28.404 ± 0.952 $\chi^2/\text{NDF}: 1200.1/58$

All: 3.804 ± 0.655 $\chi^2/\text{NDF}: 3732.5/113$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2387.136 ± 0.649 $\chi^2/\text{NDF}: 5928602.0/31$

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

Right Out: 2446.077 ± 0.686 $\chi^2/\text{NDF}: 8759716.6/33$

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

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

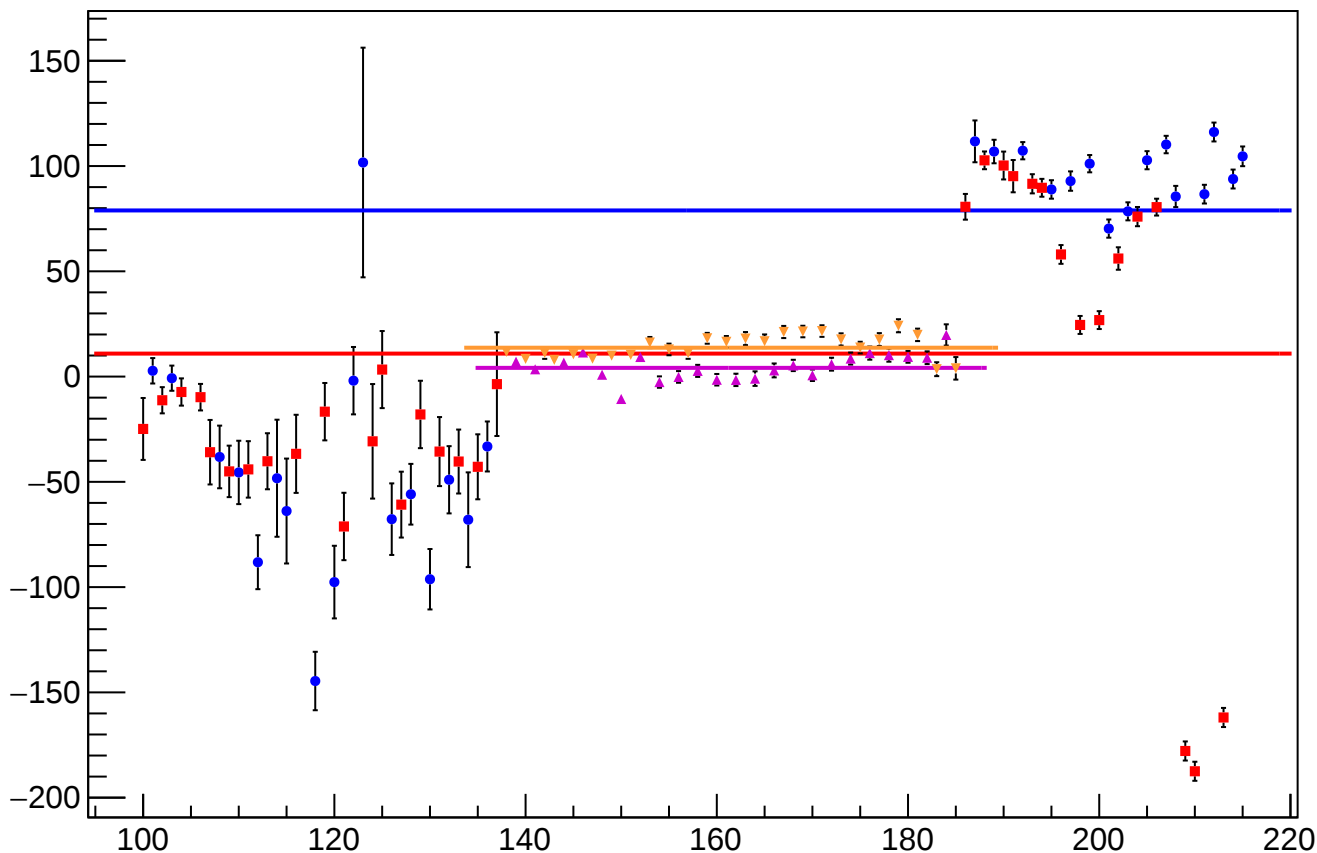
Right: 2415.002 ± 0.472 $\chi^2/\text{NDF}: 14692213.2/65$

In: 2845.393 ± 0.638 $\chi^2/\text{NDF}: 27686908.3/54$

Out: 2999.079 ± 0.673 $\chi^2/\text{NDF}: 32417904.9/58$

All: 2918.097 ± 0.463 $\chi^2/\text{NDF}: 60132282.7/100$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 78.912 $\pm$ 1.099 χ^2 /NDF: 1921.9/31

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

Right Out: 10.916 $\pm$ 1.105 χ^2 /NDF: 7572.6/33

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: 45.103 $\pm$ 0.779 χ^2 /NDF: 11398.0/65

In: 19.327 $\pm$ 0.495 χ^2 /NDF: 5722.7/54

Out: 13.179 $\pm$ 0.482 χ^2 /NDF: 7667.6/58

All: 16.168 $\pm$ 0.345 χ^2 /NDF: 13469.5/113

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4327.739 $\pm$ 0.777 χ^2 /NDF: 3862635.8/31

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

Right Out: 4338.046 $\pm$ 0.781 χ^2 /NDF: 3867491.6/33

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

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

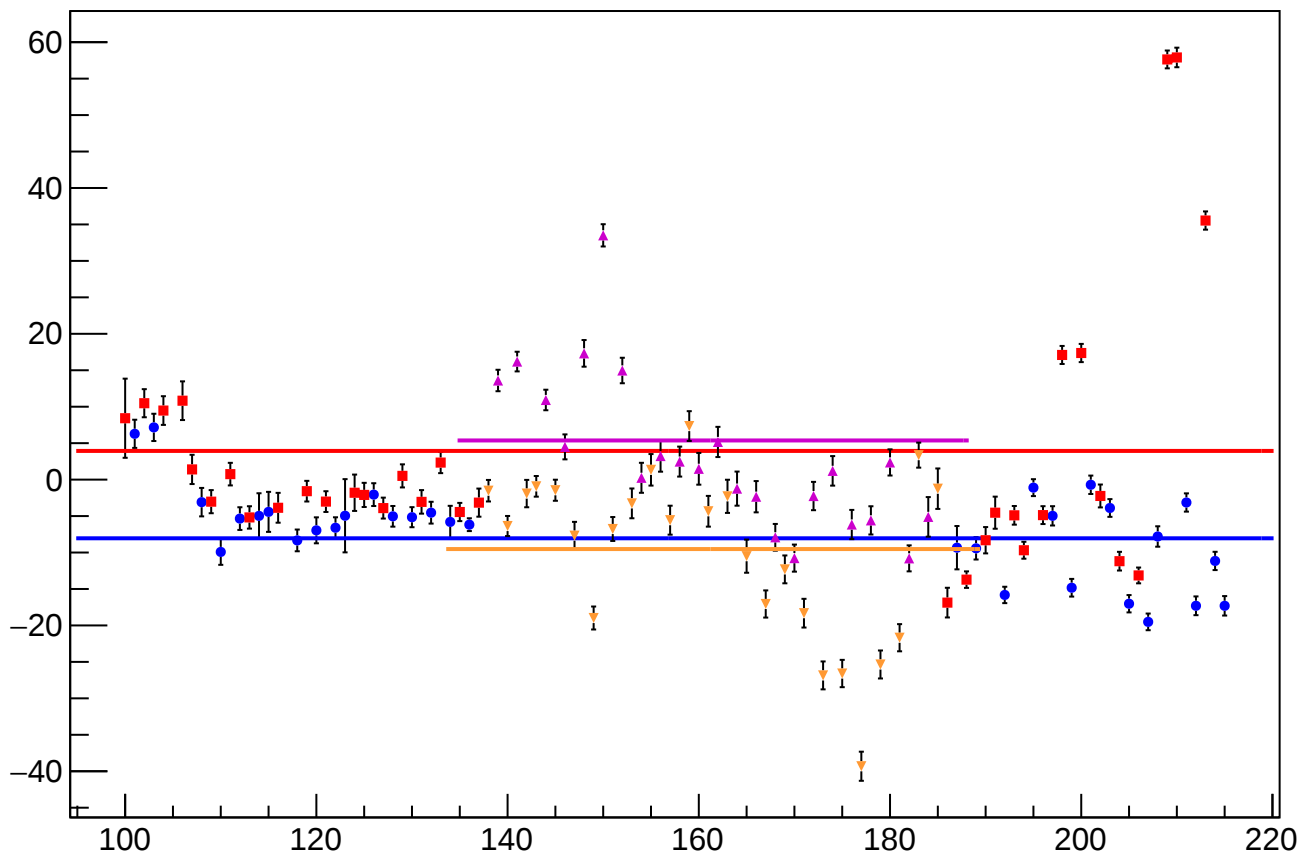
Right: 4332.864 $\pm$ 0.551 χ^2 /NDF: 7730214.9/65

In: 2704.254 $\pm$ 0.350 χ^2 /NDF: 9930479.6/54

Out: 2669.556 $\pm$ 0.341 χ^2 /NDF: 10103643.9/58

All: 2686.424 $\pm$ 0.244 χ^2 /NDF: 20039167.8/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -8.049 ± 0.254 χ^2/NDF : 617.2/31

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

Right Out: 3.936 ± 0.257 χ^2/NDF : 5734.9/33

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

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

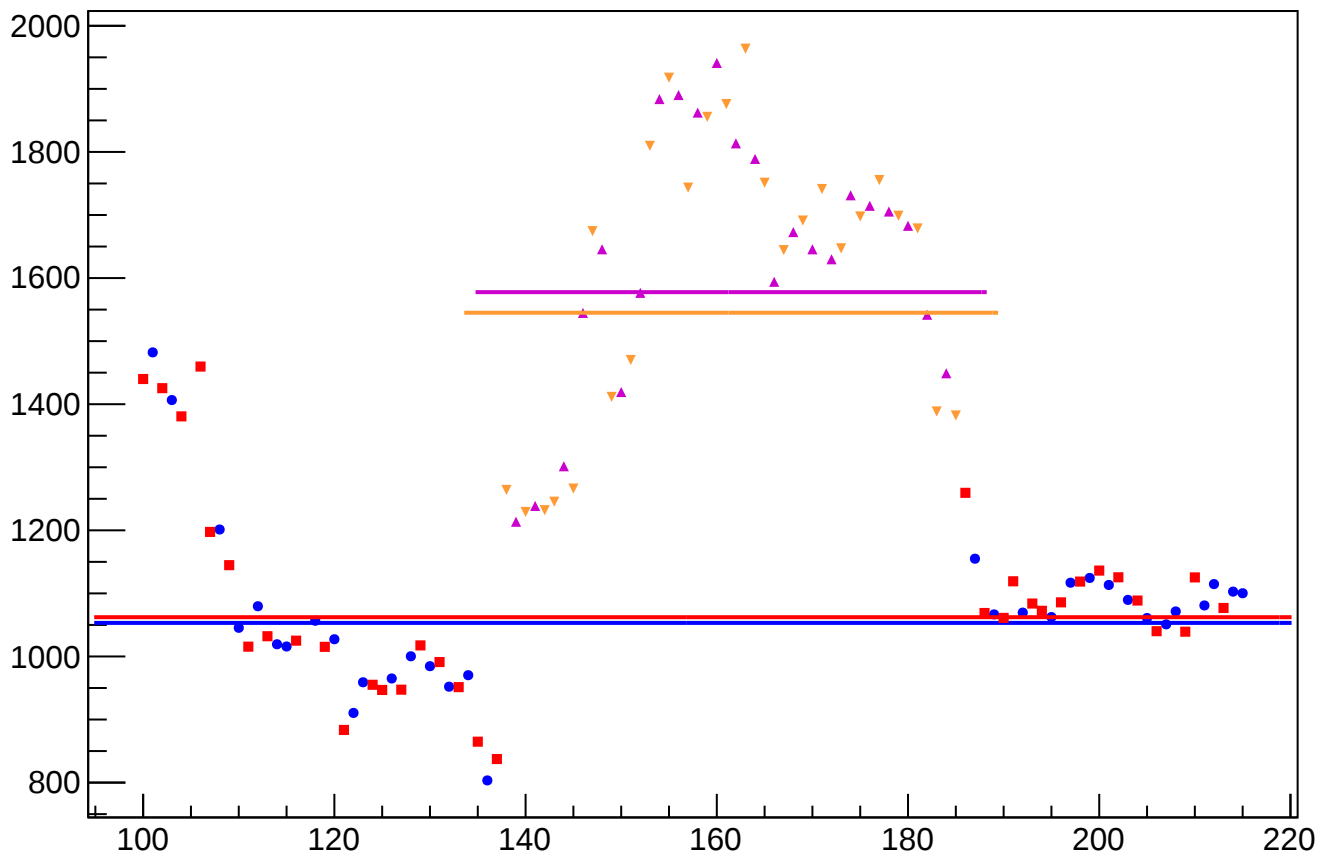
Right: -2.122 ± 0.180 χ^2/NDF : 7454.3/65

In: -3.951 ± 0.212 χ^2/NDF : 2340.4/54

Out: -0.521 ± 0.210 χ^2/NDF : 7529.8/58

All: -2.222 ± 0.149 χ^2/NDF : 10002.7/113

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1053.225 $\pm$ 0.180 χ^2 /NDF: 424248.9/31

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

Right Out: 1062.247 $\pm$ 0.181 χ^2 /NDF: 393148.0/33

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

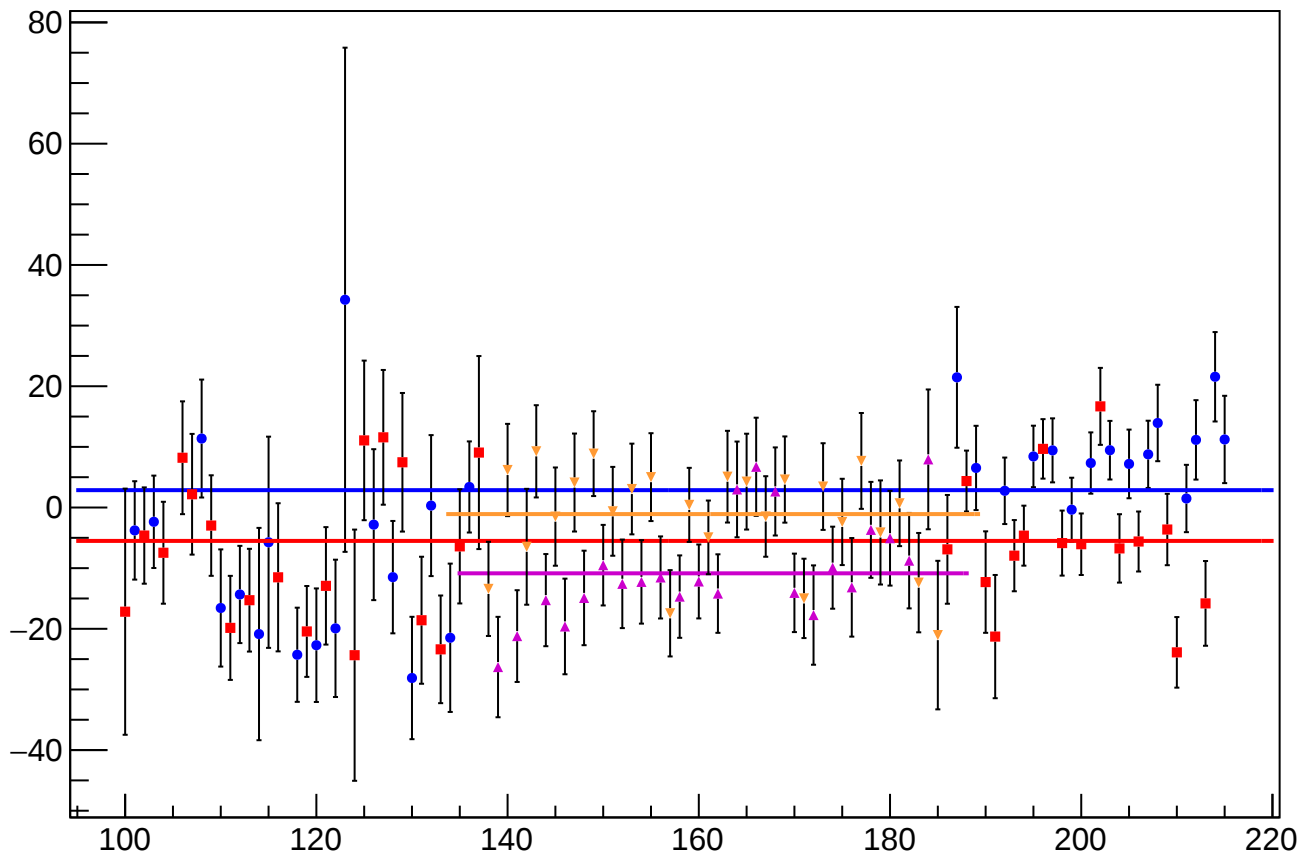
Right: 1057.687 $\pm$ 0.128 χ^2 /NDF: 818646.4/65

In: 1213.363 $\pm$ 0.150 χ^2 /NDF: 3656126.7/54

Out: 1222.104 $\pm$ 0.148 χ^2 /NDF: 3579478.8/58

All: 1217.769 $\pm$ 0.105 χ^2 /NDF: 7237326.1/111

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 2.863 ± 1.282 $\chi^2/\text{NDF}: 75.8/31$

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

Right Out: -5.506 ± 1.261 $\chi^2/\text{NDF}: 66.0/33$

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

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

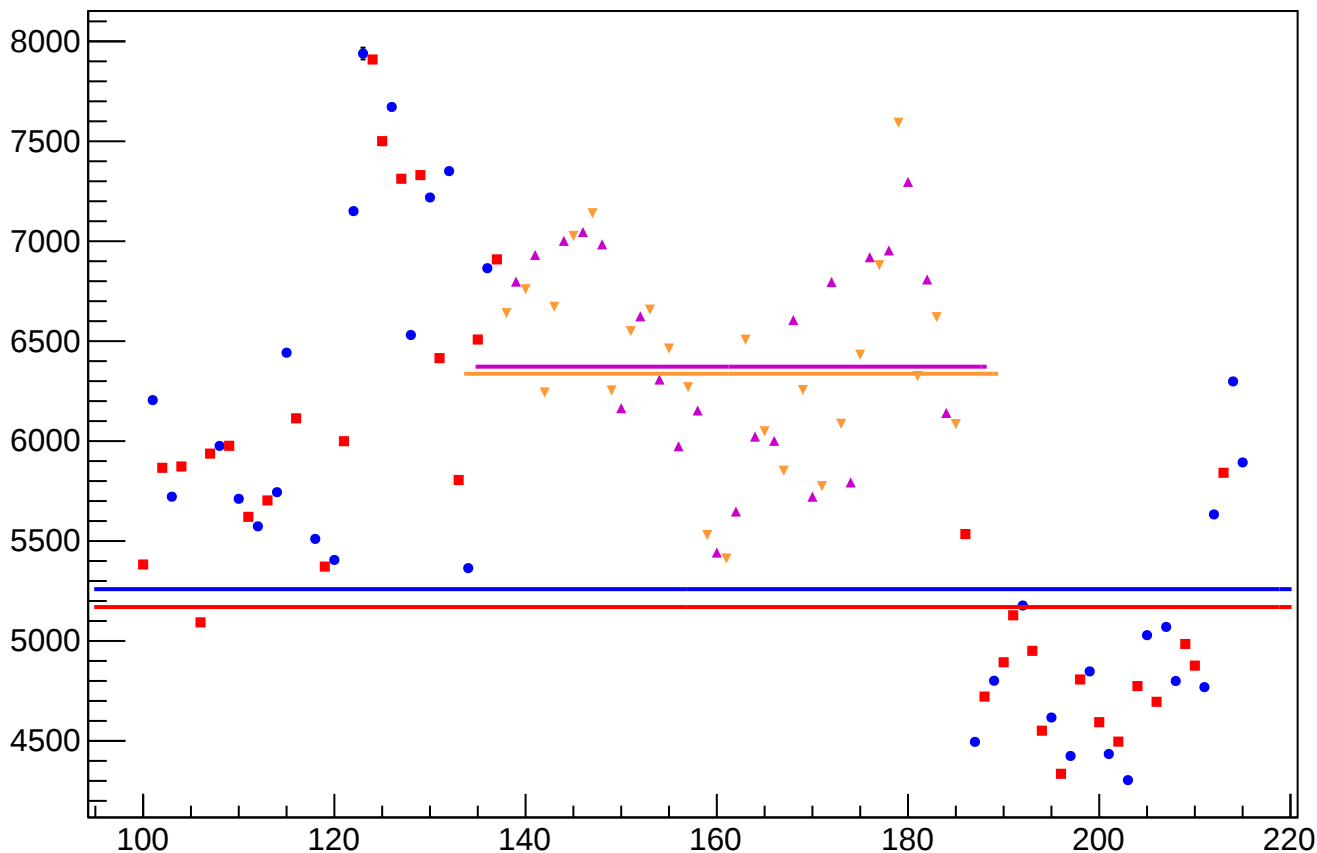
Right: -1.392 ± 0.899 $\chi^2/\text{NDF}: 163.5/65$

In: -2.744 ± 0.986 $\chi^2/\text{NDF}: 147.0/54$

Out: -3.657 ± 0.962 $\chi^2/\text{NDF}: 98.6/58$

All: -3.212 ± 0.688 $\chi^2/\text{NDF}: 246.1/113$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5259.241 $\pm$ 0.907 χ^2/NDF : 812014.3/31

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

Right Out: 5169.736 $\pm$ 0.891 χ^2/NDF : 673196.7/33

Left In: 6372.349 $\pm$ 1.090 χ^2/NDF : 247257.0/22

Left: 6353.974 $\pm$ 0.757 χ^2/NDF : 470718.0/47

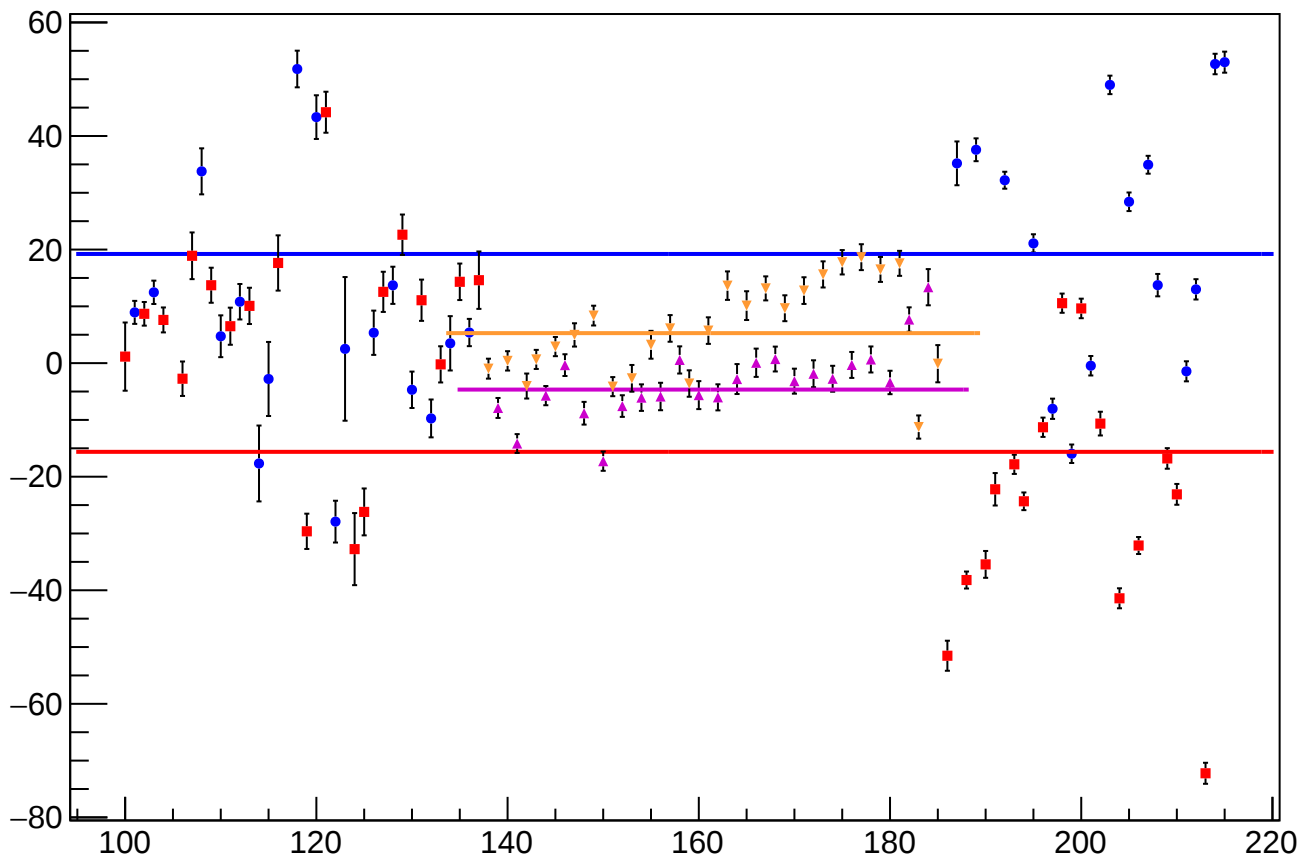
Right: 5213.730 $\pm$ 0.636 χ^2/NDF : 1490167.4/65

In: 5714.335 $\pm$ 0.697 χ^2/NDF : 1675638.6/54

Out: 5657.686 $\pm$ 0.680 χ^2/NDF : 1612967.2/58

All: 5685.307 $\pm$ 0.487 χ^2/NDF : 3291990.4/11

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 19.226 ± 0.395 $\chi^2/\text{NDF}: 2922.0/31$

Left Out: 5.284 ± 0.421 $\chi^2/\text{NDF}: 366.1/24$

Right Out: -15.622 ± 0.399 $\chi^2/\text{NDF}: 3555.1/33$

Left In: -4.657 ± 0.443 $\chi^2/\text{NDF}: 196.5/22$

Left: 0.574 ± 0.305 $\chi^2/\text{NDF}: 827.2/47$

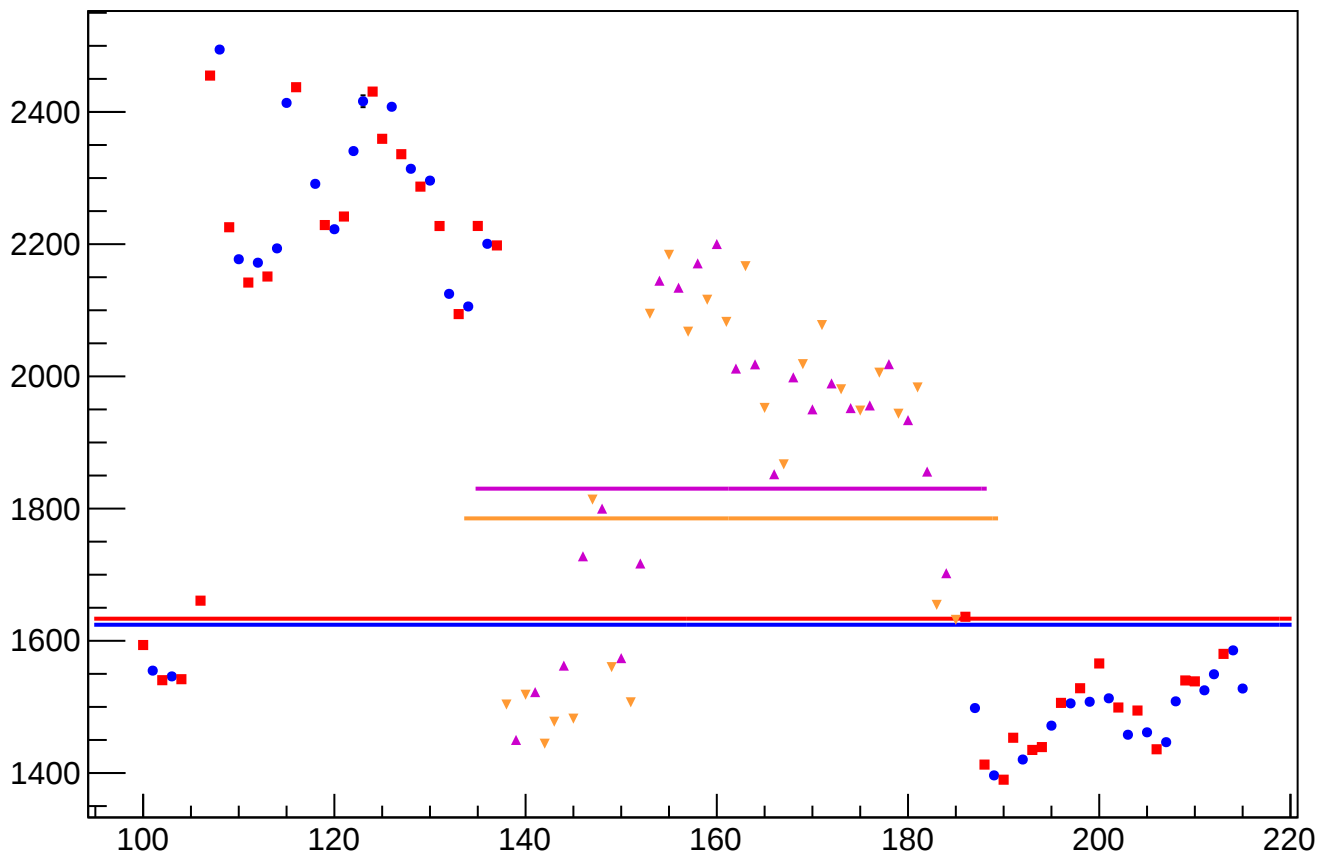
Right: 1.961 ± 0.281 $\chi^2/\text{NDF}: 10327.0/65$

In: 8.647 ± 0.295 $\chi^2/\text{NDF}: 4735.2/54$

Out: -5.723 ± 0.289 $\chi^2/\text{NDF}: 5221.4/58$

All: 1.325 ± 0.207 $\chi^2/\text{NDF}: 11165.3/113$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1624.289 ± 0.280 $\chi^2/\text{NDF}: 1103111.0/31$

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

Right Out: 1633.454 ± 0.282 $\chi^2/\text{NDF}: 1096595.1/33$

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

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

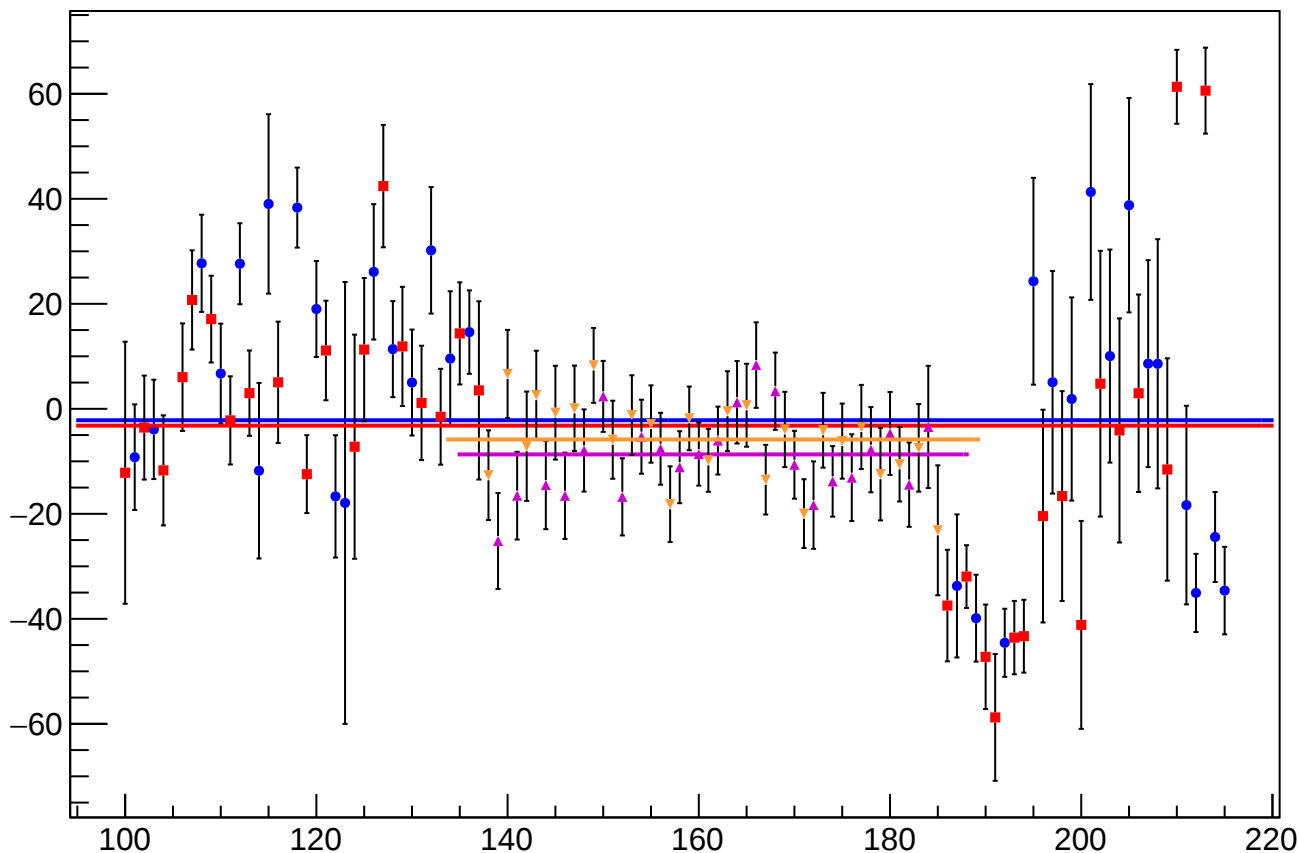
Right: 1628.830 ± 0.199 $\chi^2/\text{NDF}: 2200238.7/65$

In: 1715.477 ± 0.209 $\chi^2/\text{NDF}: 1851750.3/54$

Out: 1705.294 ± 0.205 $\chi^2/\text{NDF}: 1984198.3/58$

All: 1710.288 ± 0.146 $\chi^2/\text{NDF}: 3837162.5/111$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -2.174 ± 1.914 $\chi^2/\text{NDF}: 210.6/31$

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

Right Out: -3.200 ± 1.751 $\chi^2/\text{NDF}: 332.1/33$

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

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

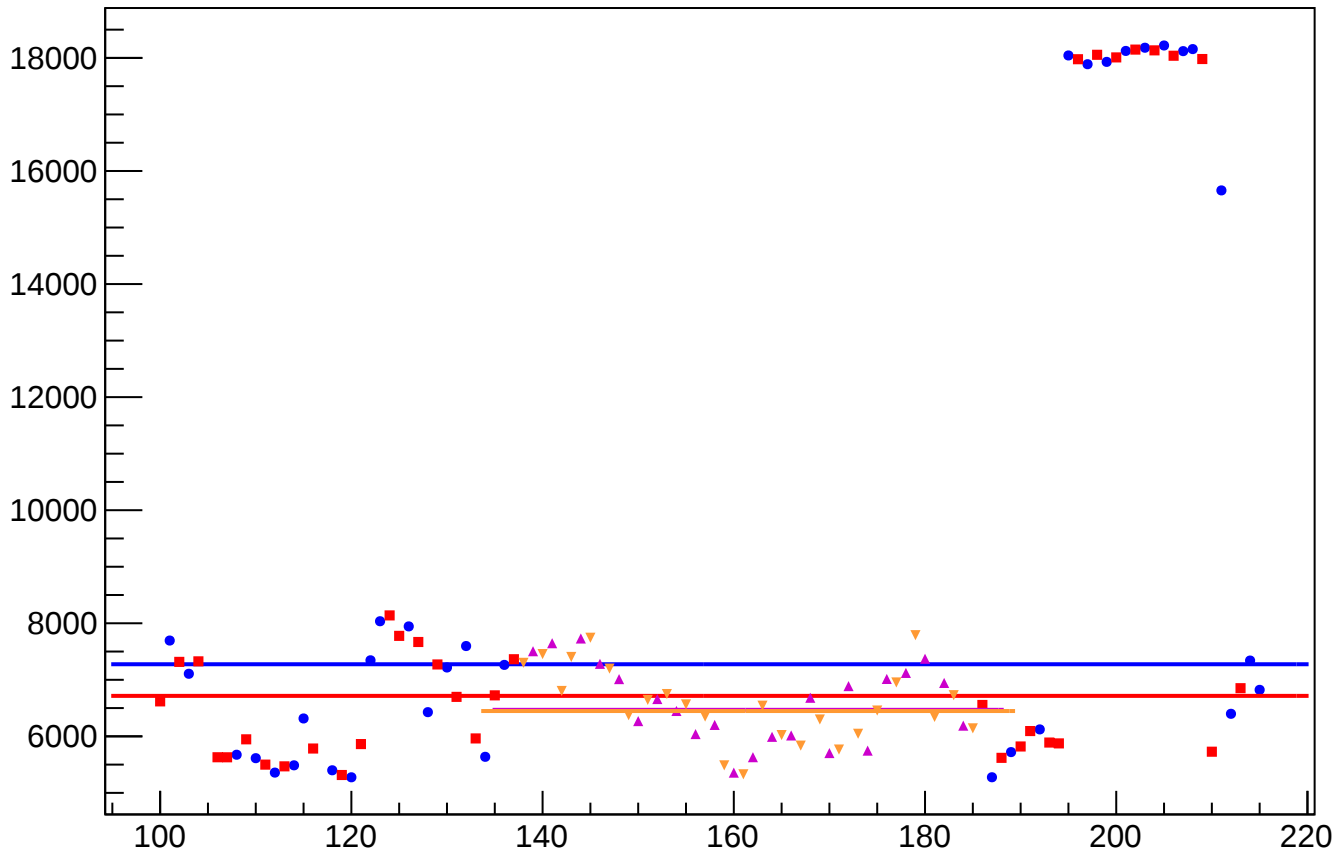
Right: -2.733 ± 1.292 $\chi^2/\text{NDF}: 542.8/65$

In: -6.064 ± 1.214 $\chi^2/\text{NDF}: 239.4/54$

Out: -4.707 ± 1.147 $\chi^2/\text{NDF}: 356.7/58$

All: -5.347 ± 0.834 $\chi^2/\text{NDF}: 596.8/113$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7275.212 $\pm$ 1.353 χ^2/NDF : 5597119.2/31

Left Out: 6447.712 $\pm$ 1.074 χ^2/NDF : 371671.1/24

Right Out: 6715.758 $\pm$ 1.238 χ^2/NDF : 4696207.3/33

Left In: 6468.902 $\pm$ 1.111 χ^2/NDF : 383325.4/22

Left: 6457.948 $\pm$ 0.772 χ^2/NDF : 755184.7/47

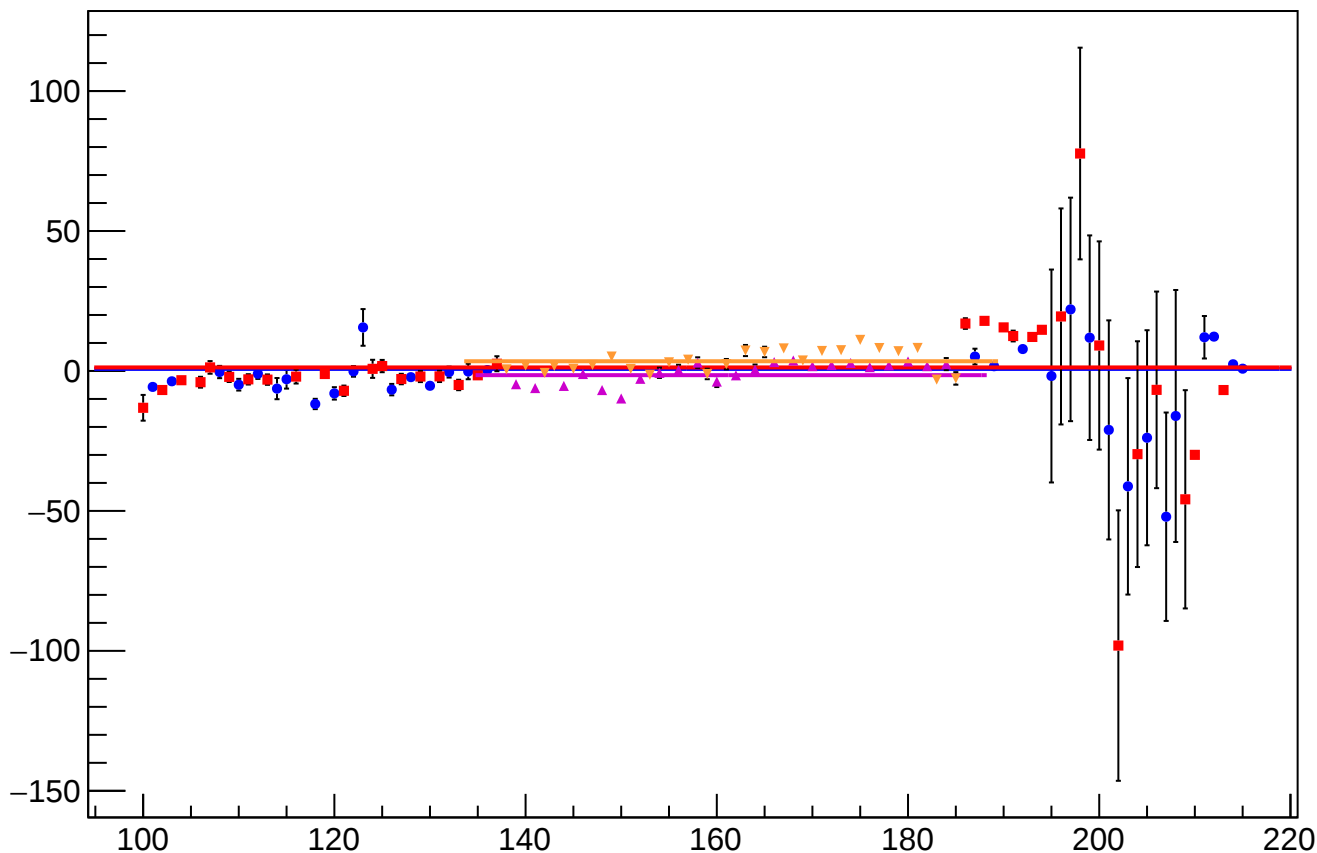
Right: 6970.668 $\pm$ 0.914 χ^2/NDF : 10386344.8/65

In: 6793.359 $\pm$ 0.859 χ^2/NDF : 6192559.7/54

Out: 6562.746 $\pm$ 0.811 χ^2/NDF : 5094630.2/58

All: 6671.515 $\pm$ 0.590 χ^2/NDF : 11325312.7/13

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 0.732 ± 0.345 χ^2/NDF : 292.4/31

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

Right Out: 1.261 ± 0.328 χ^2/NDF : 1362.3/33

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

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

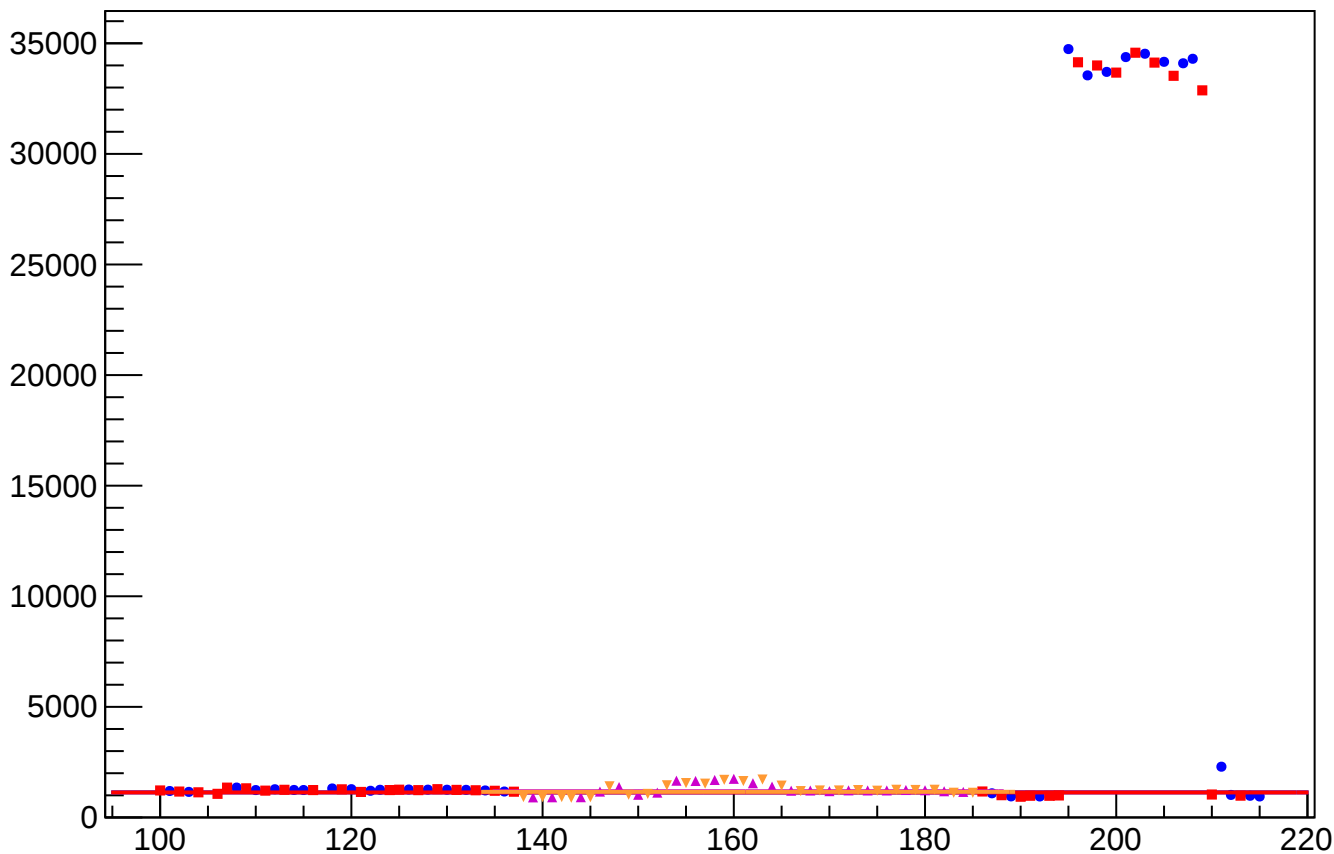
Right: 1.011 ± 0.238 χ^2/NDF : 1655.9/65

In: -0.576 ± 0.222 χ^2/NDF : 519.6/54

Out: 2.553 ± 0.211 χ^2/NDF : 1564.8/58

All: 1.068 ± 0.153 χ^2/NDF : 2188.4/113

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1133.852 $\pm$ 0.244 χ^2/NDF : 11908126.3/31

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

Right Out: 1130.673 $\pm$ 0.232 χ^2/NDF : 10113709.2/33

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

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

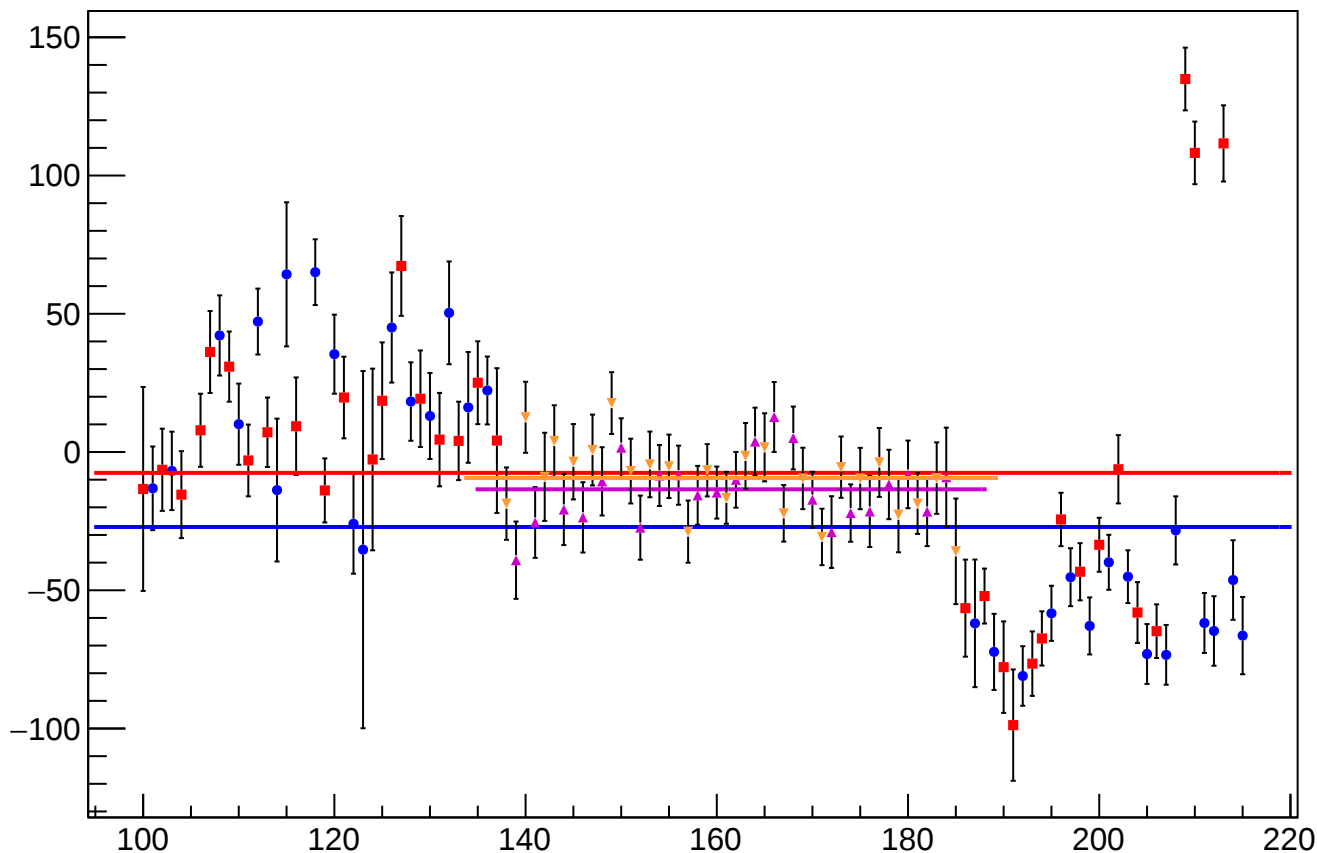
Right: 1132.180 $\pm$ 0.168 χ^2/NDF : 22021924.6/65

In: 1163.780 $\pm$ 0.157 χ^2/NDF : 13124197.3/54

Out: 1147.177 $\pm$ 0.149 χ^2/NDF : 11532790.9/58

All: 1155.056 $\pm$ 0.108 χ^2/NDF : 24662845.1/111

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -27.108 $\pm$ 2.347 χ^2/NDF : 364.3/31

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

Right Out: -7.538 $\pm$ 2.286 χ^2/NDF : 607.0/33

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

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

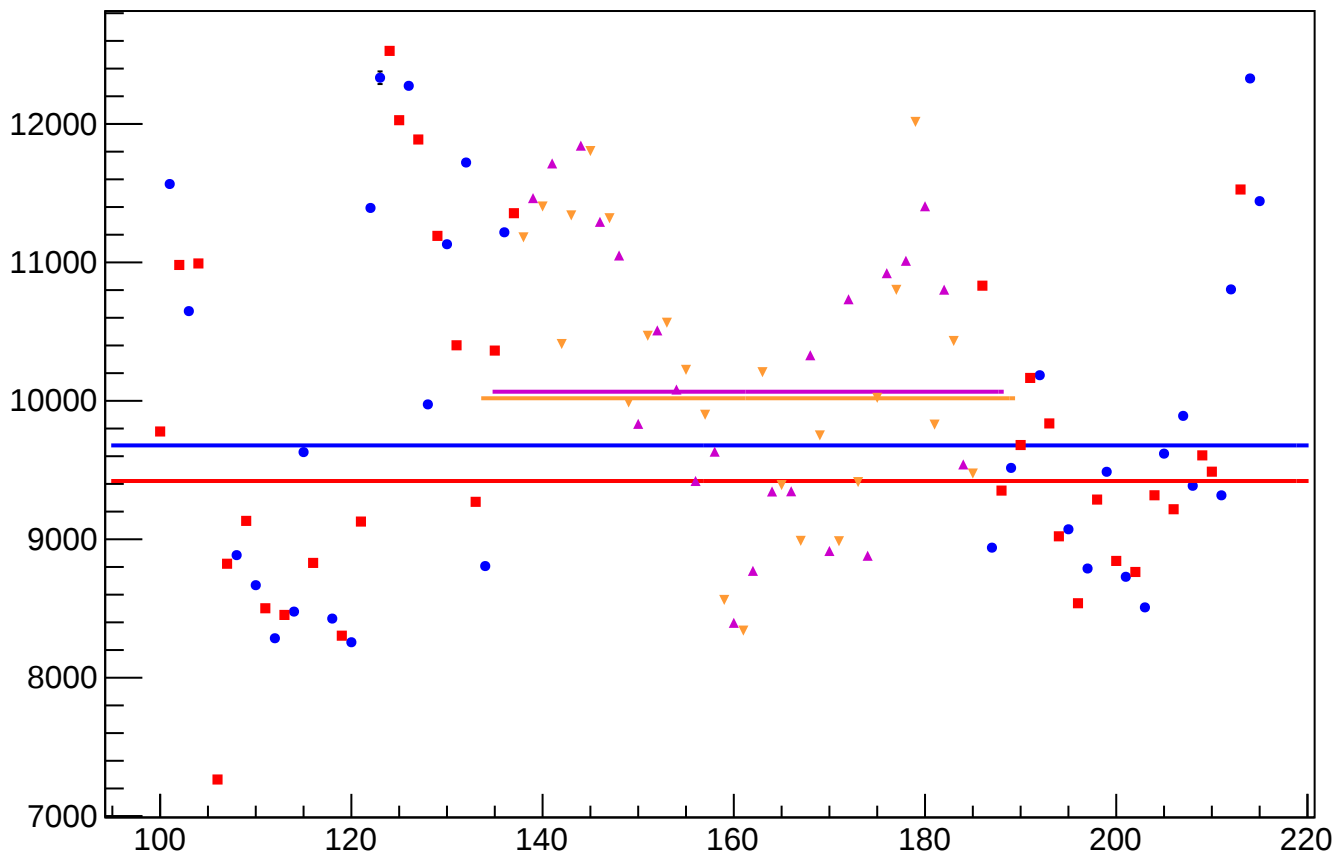
Right: -17.065 $\pm$ 1.637 χ^2/NDF : 1007.0/65

In: -20.570 $\pm$ 1.692 χ^2/NDF : 402.0/54

Out: -8.438 $\pm$ 1.641 χ^2/NDF : 633.6/58

All: -14.319 $\pm$ 1.178 χ^2/NDF : 1062.1/113

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9678.079 $\pm$ 1.659 χ^2/NDF : 460194.0/31

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

Right Out: 9420.983 $\pm$ 1.616 χ^2/NDF : 375675.6/33

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

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

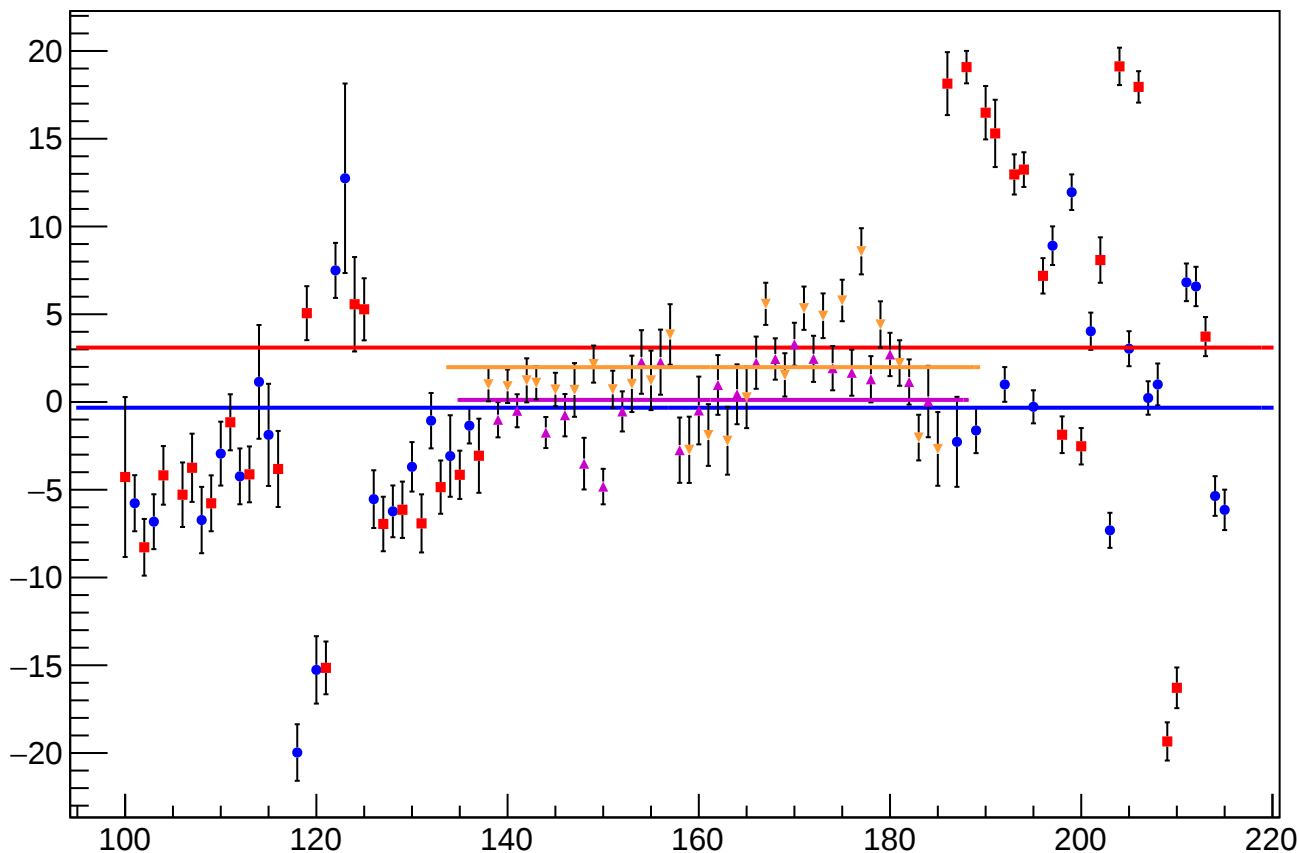
Right: 9546.145 $\pm$ 1.158 χ^2/NDF : 848187.6/65

In: 9864.220 $\pm$ 1.197 χ^2/NDF : 844279.2/54

Out: 9710.417 $\pm$ 1.161 χ^2/NDF : 786419.3/58

All: 9784.968 $\pm$ 0.833 χ^2/NDF : 1639210.3/11

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.326 ± 0.232 χ^2/NDF : 750.1/31

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

Right Out: 3.101 ± 0.233 χ^2/NDF : 2456.3/33

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

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

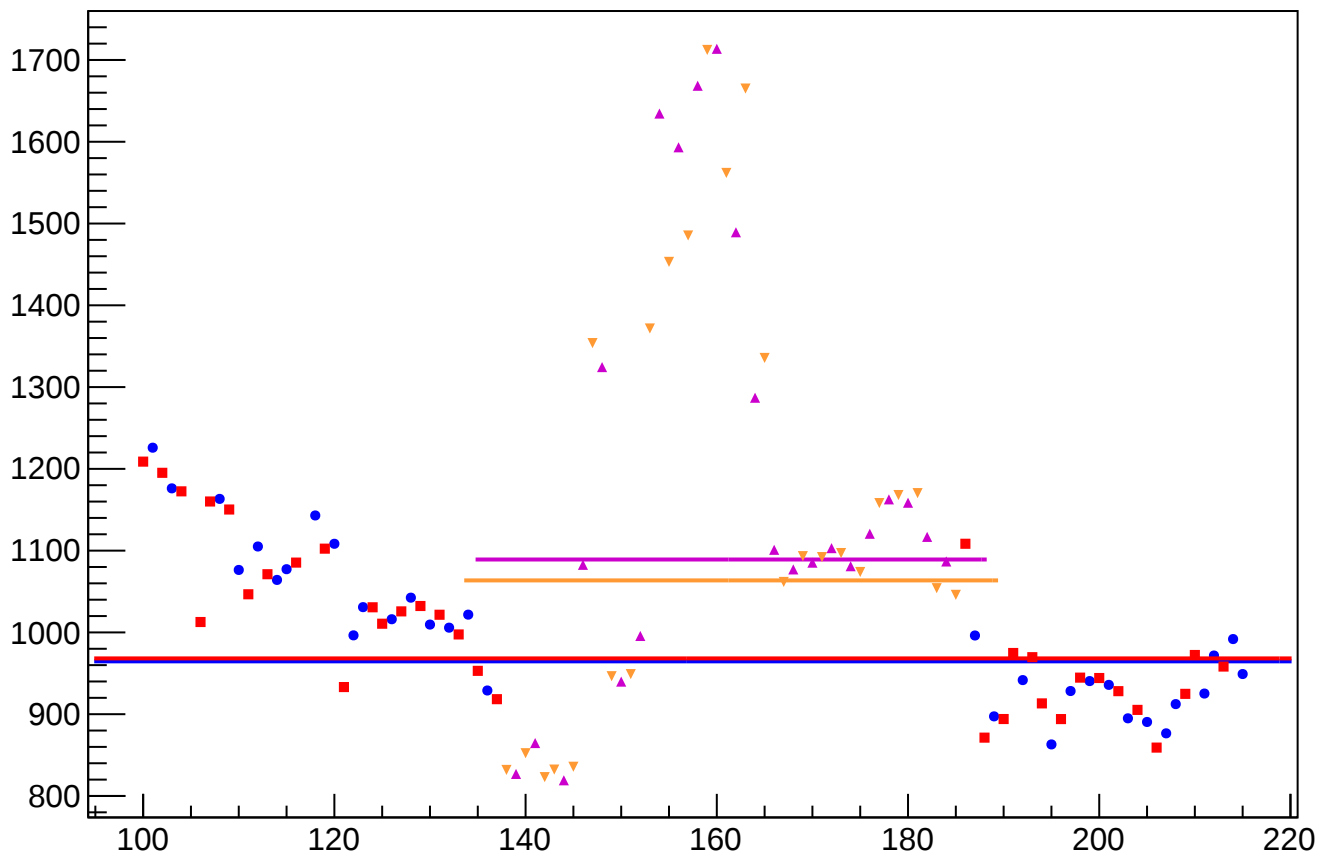
Right: 1.376 ± 0.165 χ^2/NDF : 3314.9/65

In: -0.136 ± 0.176 χ^2/NDF : 819.3/54

Out: 2.591 ± 0.172 χ^2/NDF : 2568.0/58

All: 1.255 ± 0.123 χ^2/NDF : 3510.3/113

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 964.625 $\pm$ 0.164 χ^2/NDF : 272552.2/31

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

Right Out: 968.218 $\pm$ 0.165 χ^2/NDF : 269475.7/33

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

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

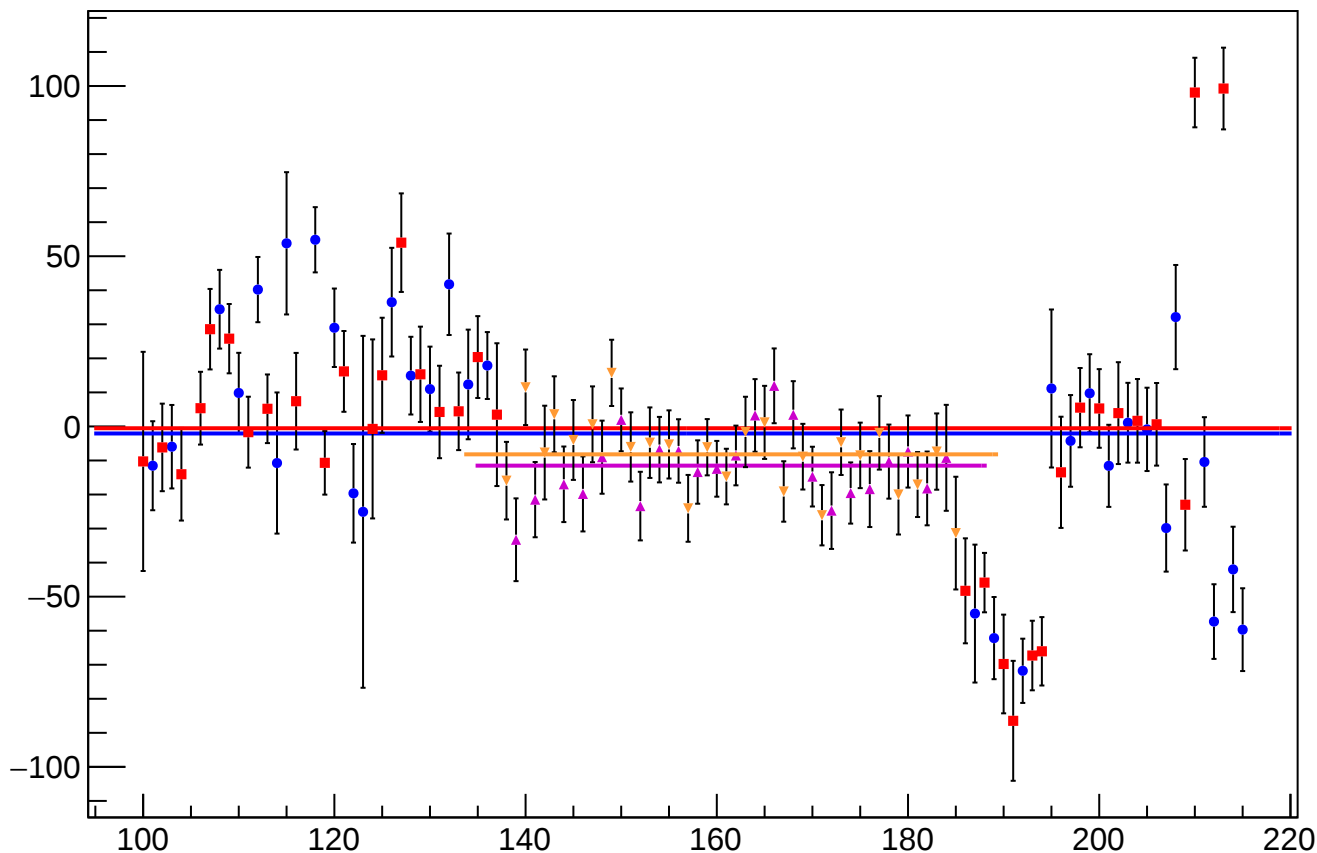
Right: 966.410 $\pm$ 0.116 χ^2/NDF : 542266.1/65

In: 1017.809 $\pm$ 0.124 χ^2/NDF : 1949157.1/54

Out: 1011.753 $\pm$ 0.122 χ^2/NDF : 2039182.4/58

All: 1014.721 $\pm$ 0.087 χ^2/NDF : 3989552.4/111

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -2.066±/2.253 χ^2/NDF : 261.7/31

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

Right Out: -0.532±/2.127 χ^2/NDF : 372.6/33

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

Left: -9.796±/1.474 χ^2/NDF : 48.5/47

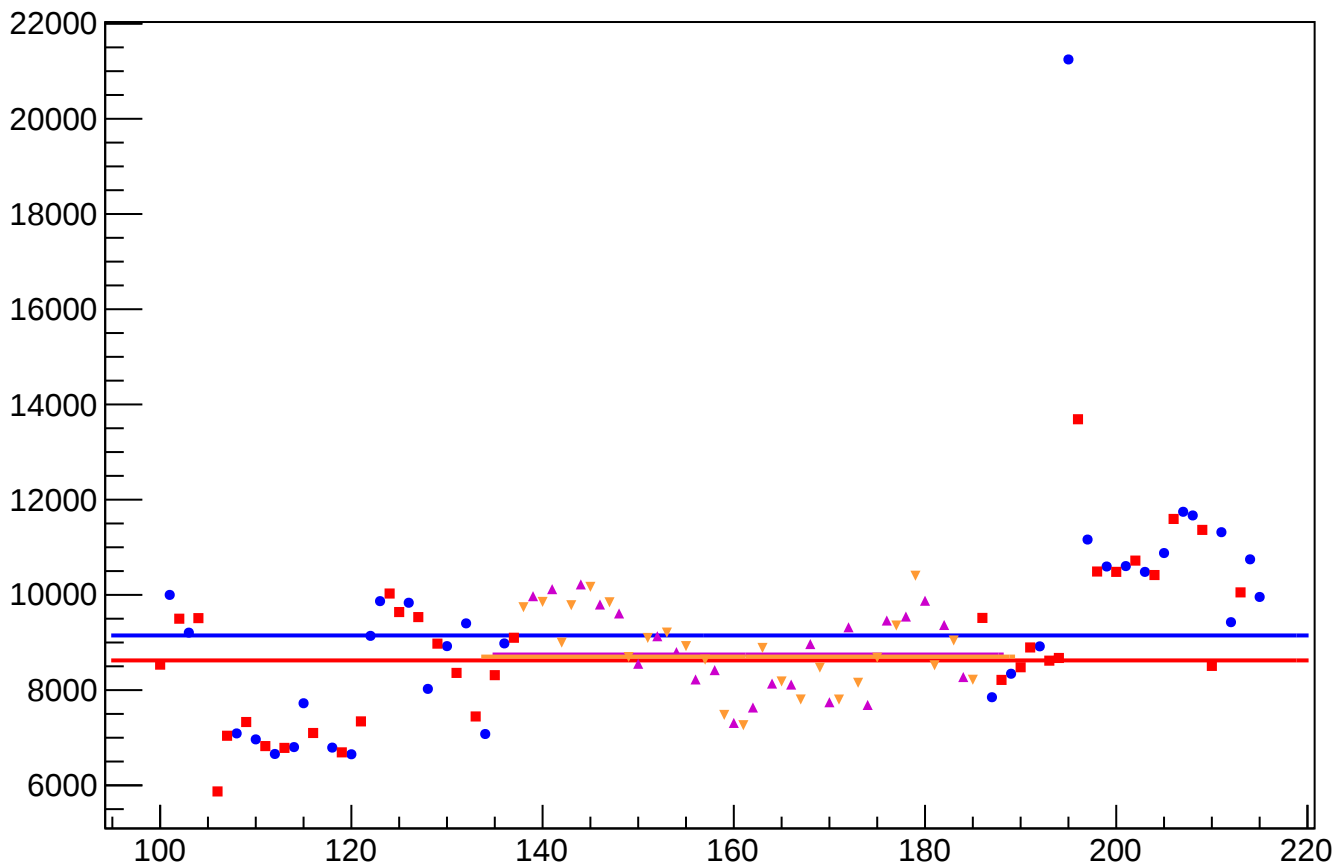
Right: -1.255±/1.547 χ^2/NDF : 634.5/65

In: -7.073±/1.545 χ^2/NDF : 292.1/54

Out: -4.507±/1.475 χ^2/NDF : 405.5/58

All: -5.731±/1.067 χ^2/NDF : 699.0/113

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9148.055 ± 1.593 $\chi^2/\text{NDF}: 1550355.6/31$

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

Right Out: 8623.696 ± 1.504 $\chi^2/\text{NDF}: 1144277.5/33$

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

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

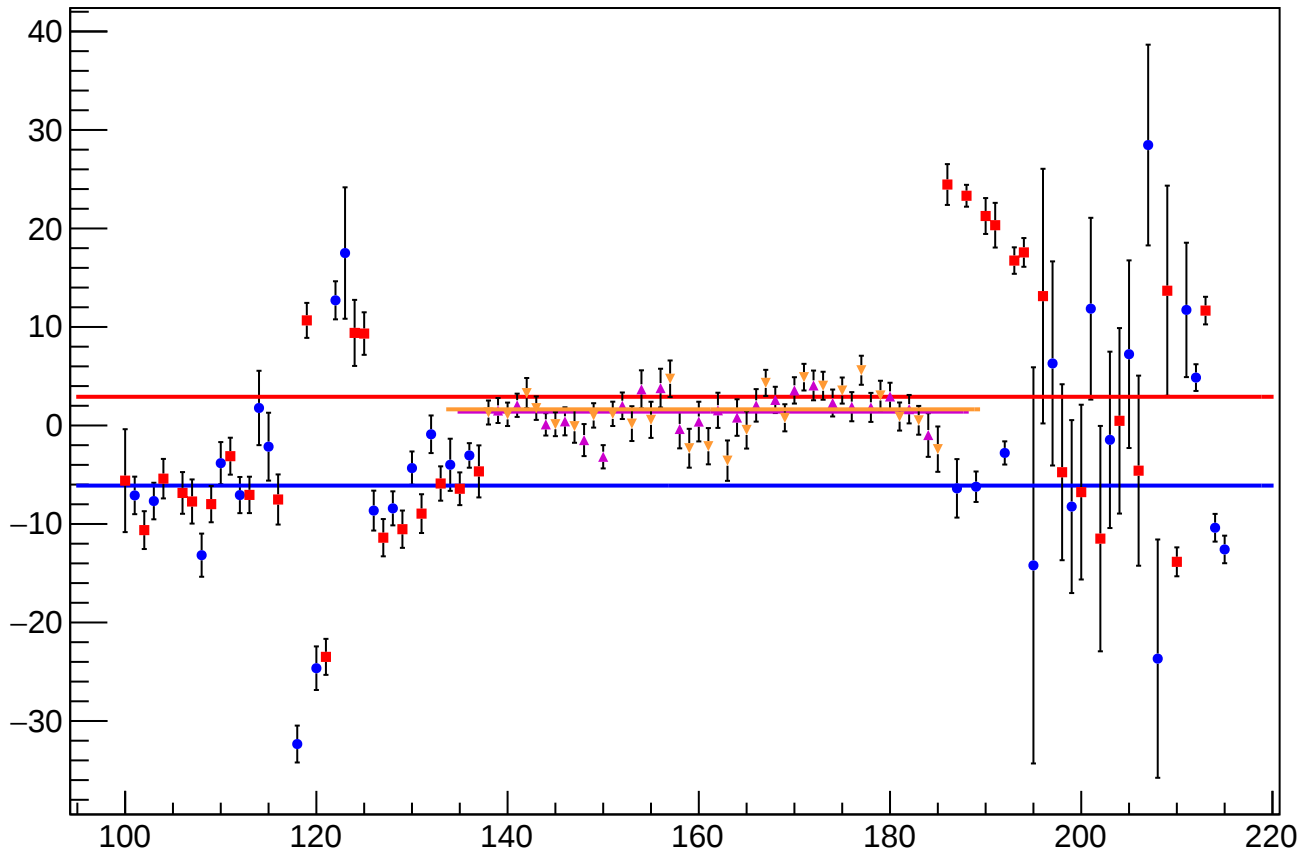
Right: 8870.731 ± 1.094 $\chi^2/\text{NDF}: 2751905.1/65$

In: 8935.741 ± 1.092 $\chi^2/\text{NDF}: 1930967.1/54$

Out: 8665.452 ± 1.043 $\chi^2/\text{NDF}: 1478127.8/58$

All: 8794.379 ± 0.755 $\chi^2/\text{NDF}: 3441108.4/11$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.102 $\pm$ 0.375 χ^2/NDF : 543.0/31

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

Right Out: 2.913 $\pm$ 0.350 χ^2/NDF : 1642.6/33

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

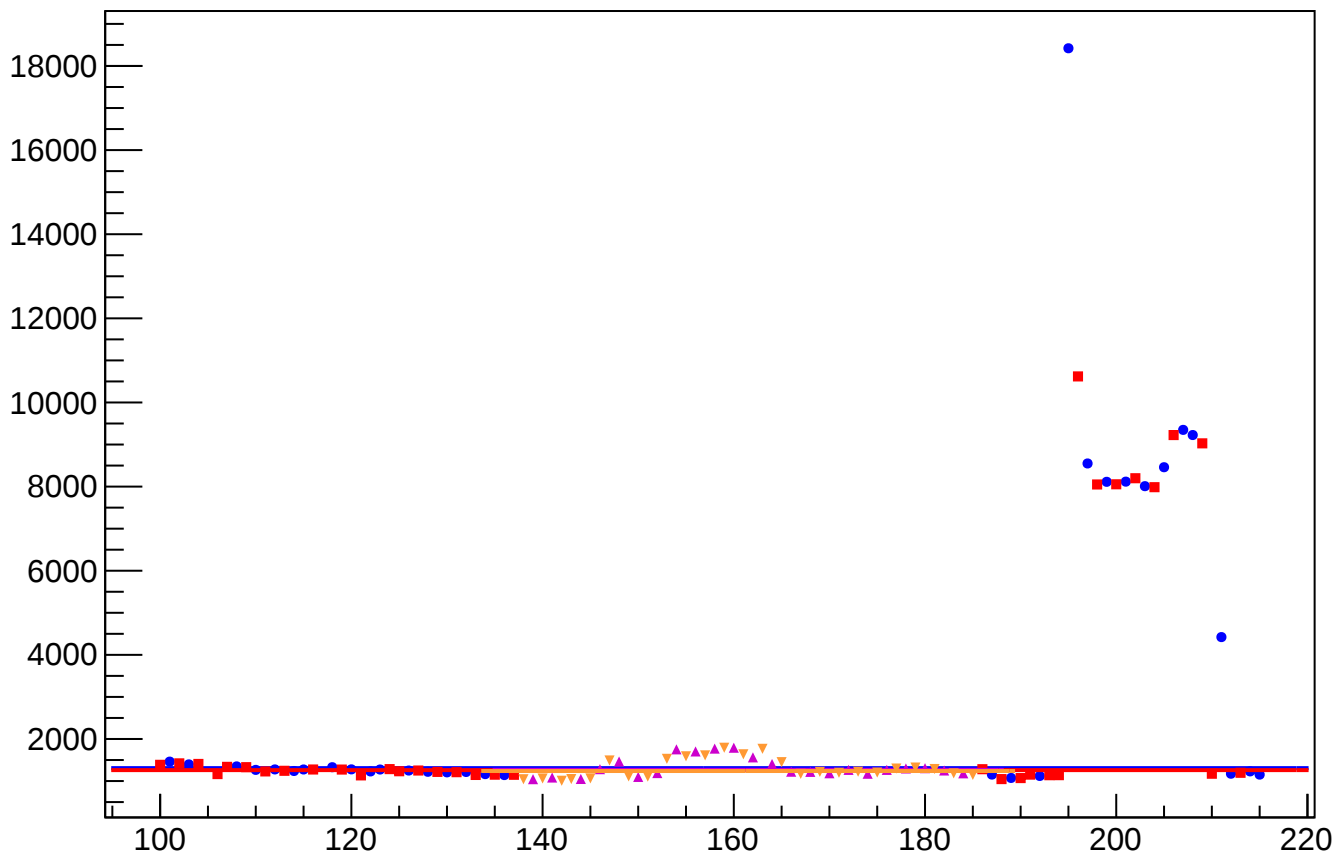
Right: -1.283 $\pm$ 0.256 χ^2/NDF : 2495.2/65

In: -1.635 $\pm$ 0.238 χ^2/NDF : 816.0/54

Out: 2.166 $\pm$ 0.225 χ^2/NDF : 1701.7/58

All: 0.377 $\pm$ 0.164 χ^2/NDF : 2652.3/113

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1307.116+/-0.265 χ^2/NDF : 9721719.9/31

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

Right Out: 1259.864+/-0.247 χ^2/NDF : 7767939.5/33

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

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

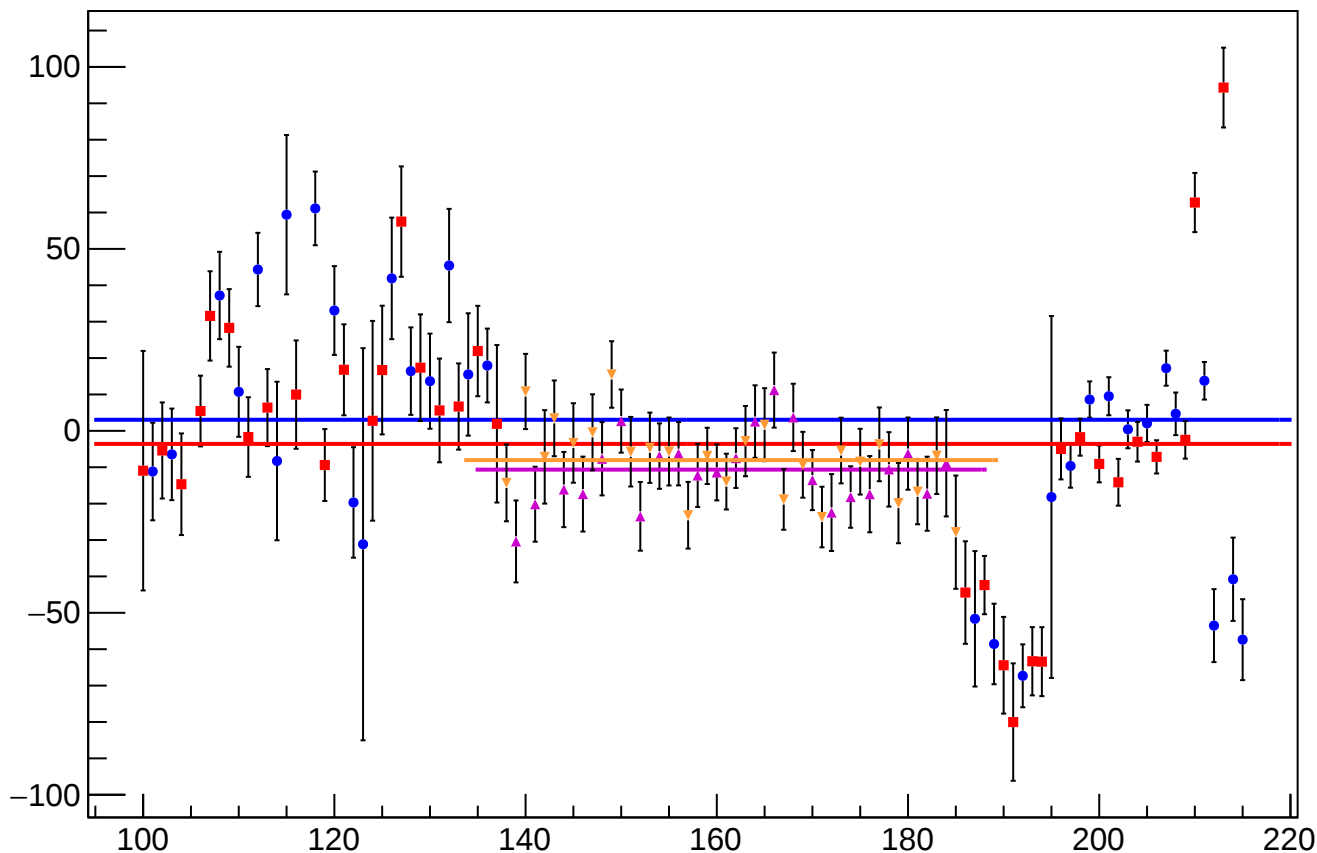
Right: 1281.856+/-0.181 χ^2/NDF : 17506667.6/65

In: 1282.451+/-0.169 χ^2/NDF : 10581442.9/54

Out: 1247.300+/-0.159 χ^2/NDF : 8737518.7/58

All: 1263.849+/-0.116 χ^2/NDF : 19341977.8/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 3.046 ± 1.517 $\chi^2/\text{NDF}: 295.6/31$

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

Right Out: -3.586 ± 1.540 $\chi^2/\text{NDF}: 355.3/33$

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

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

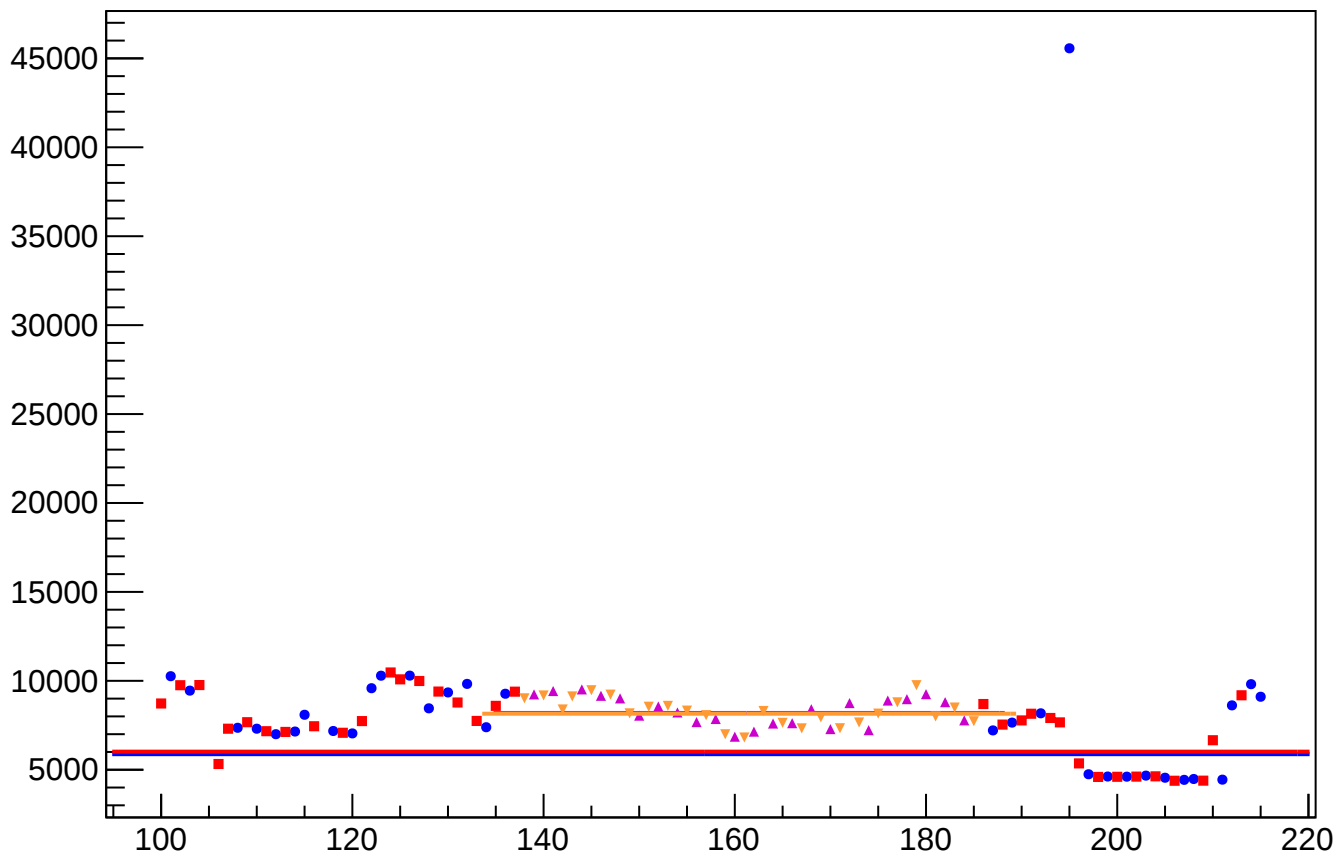
Right: -0.220 ± 1.080 $\chi^2/\text{NDF}: 660.3/65$

In: -1.995 ± 1.206 $\chi^2/\text{NDF}: 347.0/54$

Out: -5.332 ± 1.201 $\chi^2/\text{NDF}: 384.9/58$

All: -3.671 ± 0.851 $\chi^2/\text{NDF}: 735.8/113$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5875.934+/-1.072

χ^2/NDF : 4448397.8/31

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

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

Right: 5945.723+/-0.764 χ^2/NDF : 7174278.8/65

Right Out: 6017.637+/-1.089

χ^2/NDF : 2717282.9/33

In: 6728.862+/-0.853 χ^2/NDF : 6505529.9/54

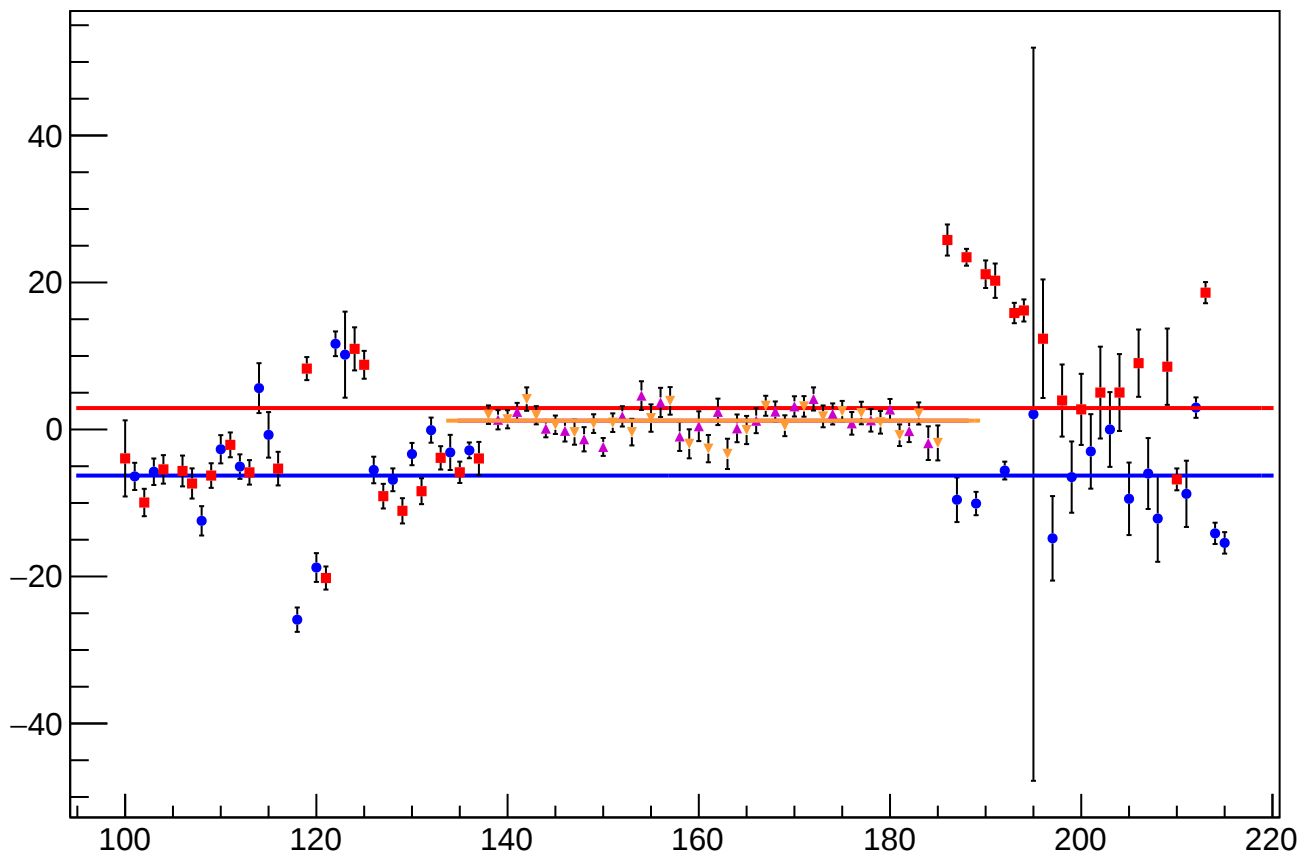
Out: 6853.716+/-0.849 χ^2/NDF : 4544399.1/58

Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

All: 6791.551+/-0.602 χ^2/NDF : 11060696.8/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.272 ± 0.350 $\chi^2/\text{NDF}: 486.6/31$

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

Right Out: 2.914 ± 0.330 $\chi^2/\text{NDF}: 1574.7/33$

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

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

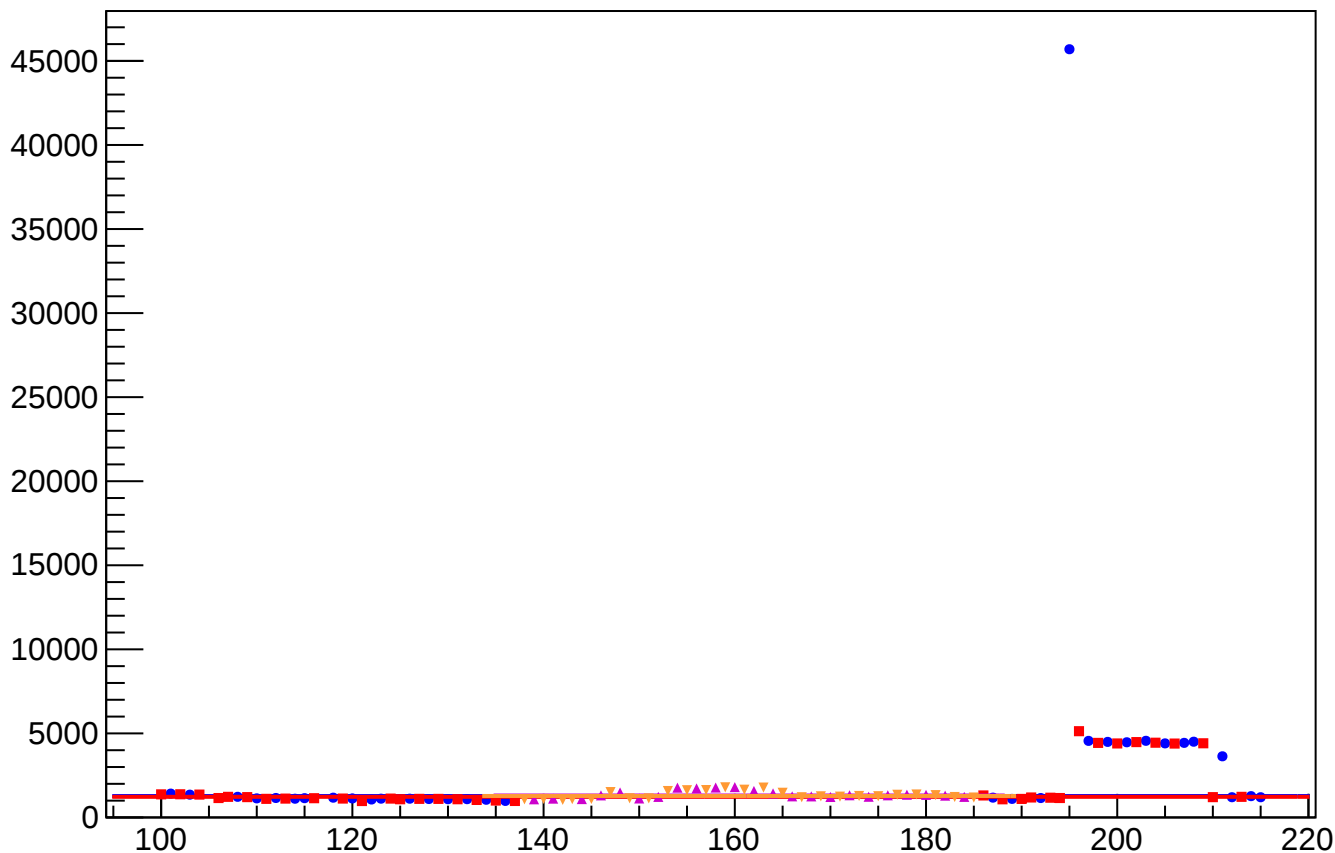
Right: -1.408 ± 0.240 $\chi^2/\text{NDF}: 2426.7/65$

In: -2.185 ± 0.235 $\chi^2/\text{NDF}: 767.4/54$

Out: 1.985 ± 0.223 $\chi^2/\text{NDF}: 1619.3/58$

All: 0.013 ± 0.162 $\chi^2/\text{NDF}: 2552.3/113$

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1272.836 $\pm$ 0.247 χ^2 /NDF: 7977501.2/31

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

Right Out: 1227.876 $\pm$ 0.233 χ^2 /NDF: 5501145.5/33

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

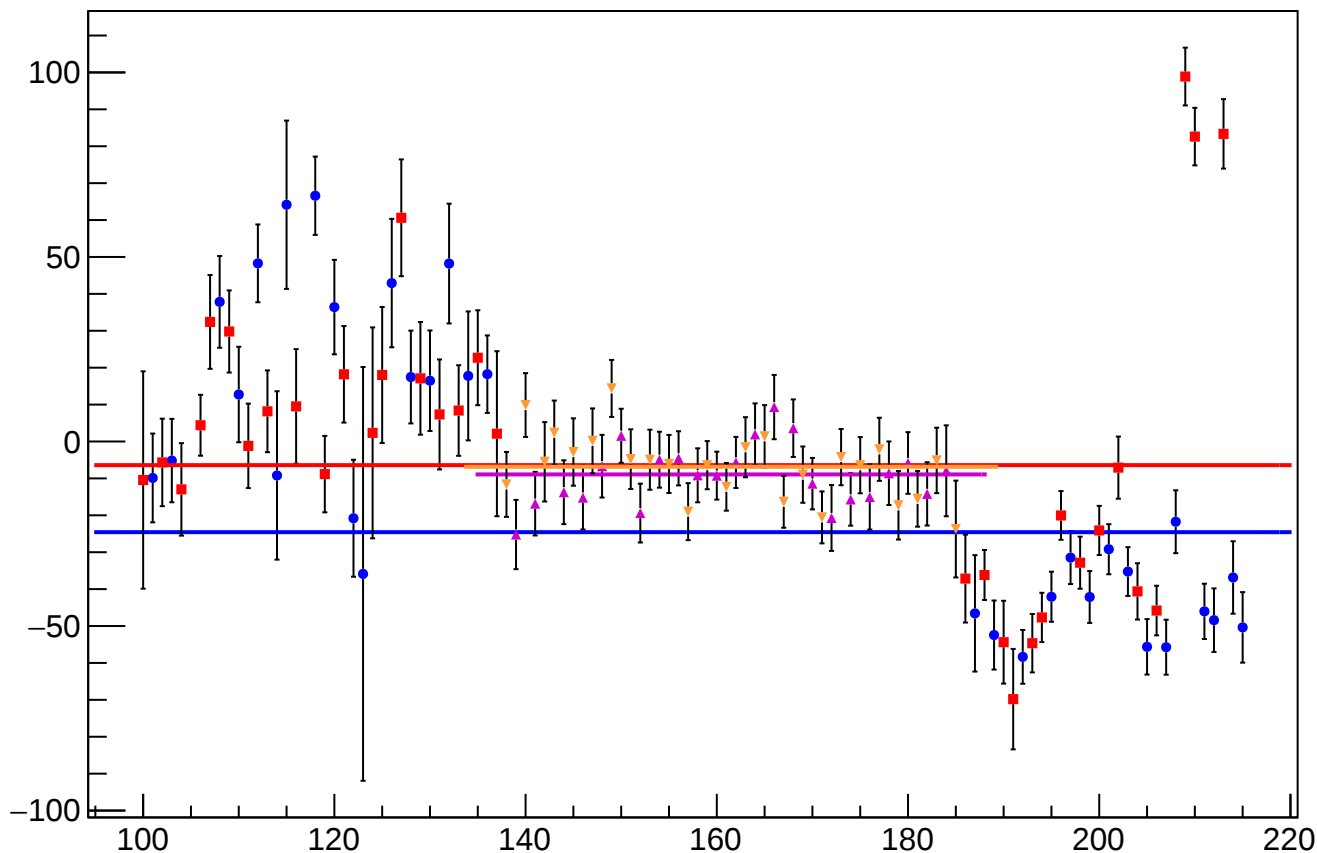
Right: 1249.032 $\pm$ 0.170 χ^2 /NDF: 13496153.8/65

In: 1290.728 $\pm$ 0.166 χ^2 /NDF: 8747524.4/54

Out: 1255.045 $\pm$ 0.158 χ^2 /NDF: 6404297.3/58

All: 1271.916 $\pm$ 0.114 χ^2 /NDF: 15176066.4/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -24.569 ± 1.733 χ^2/NDF : 384.5/31

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

Right Out: -6.408 ± 1.681 χ^2/NDF : 681.9/33

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

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

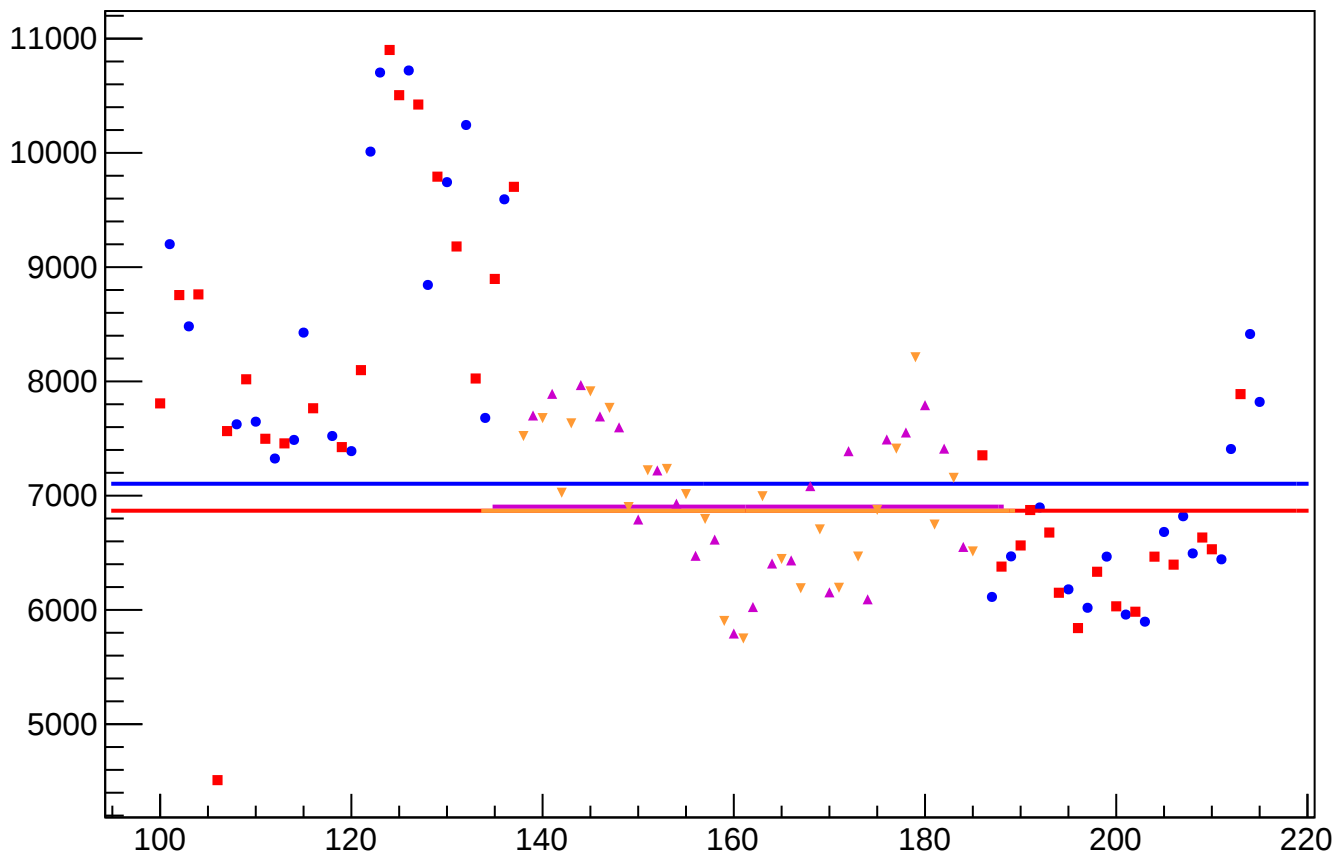
Right: -15.209 ± 1.206 χ^2/NDF : 1123.0/65

In: -16.476 ± 1.204 χ^2/NDF : 448.5/54

Out: -6.640 ± 1.165 χ^2/NDF : 710.6/58

All: -11.394 ± 0.837 χ^2/NDF : 1193.6/113

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7104.231+/-1.225 χ^2/NDF : 901238.4/31

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

Right Out: 6868.254+/-1.188 χ^2/NDF : 968536.7/33

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

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

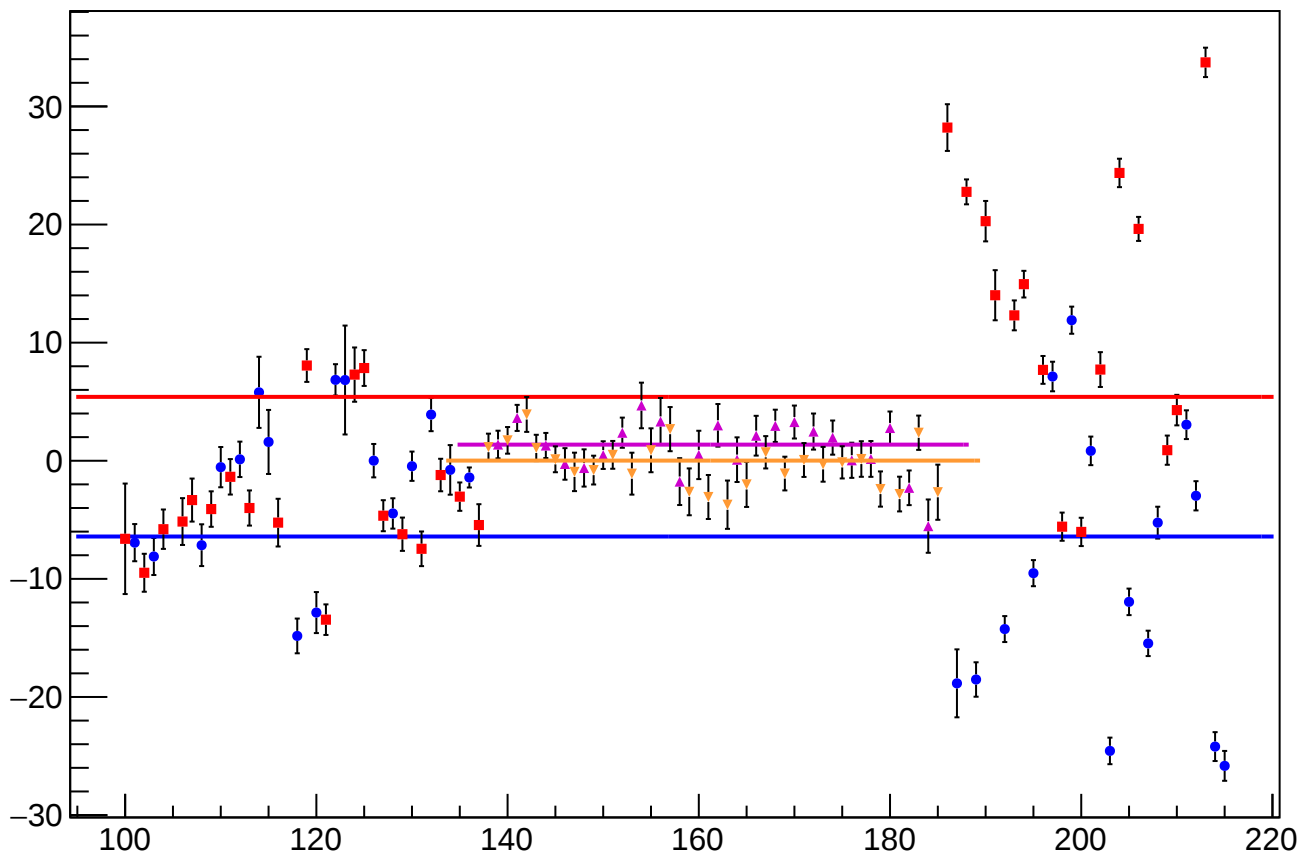
Right: 6982.610+/-0.853 χ^2/NDF : 1888886.1/65

In: 7000.726+/-0.851 χ^2/NDF : 1240943.6/54

Out: 6867.795+/-0.824 χ^2/NDF : 1275432.0/58

All: 6932.044+/-0.592 χ^2/NDF : 2528968.7/11

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -6.414 ± 0.240 χ^2/NDF : 1779.6/31

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

Right Out: 5.409 ± 0.242 χ^2/NDF : 2604.0/33

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

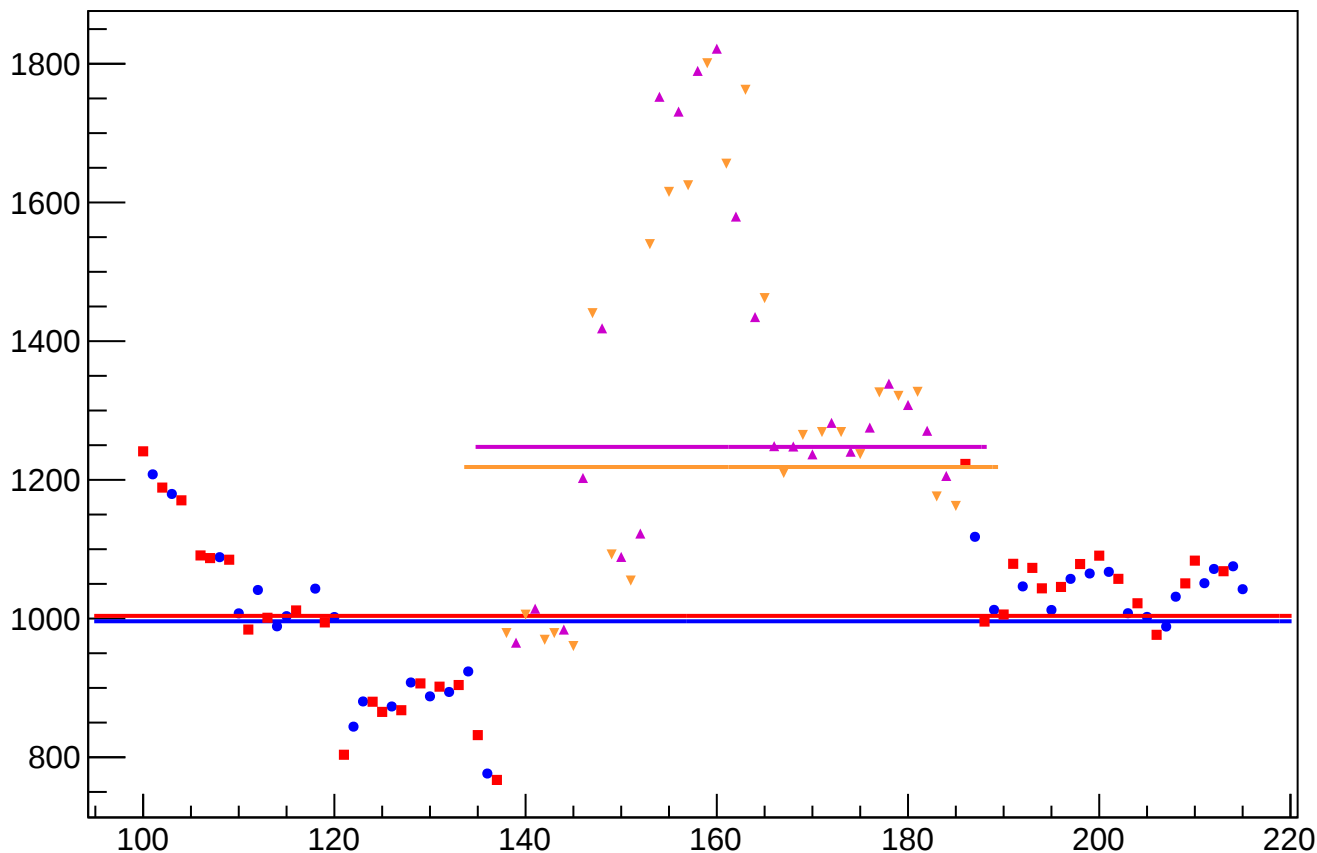
Right: -0.567 ± 0.170 χ^2/NDF : 5586.2/65

In: -3.449 ± 0.189 χ^2/NDF : 2219.4/54

Out: 3.189 ± 0.186 χ^2/NDF : 2842.8/58

All: -0.083 ± 0.132 χ^2/NDF : 5690.3/113

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 996.087 ± 0.170 χ^2/NDF : 339119.7/31

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

Right Out: 1003.885 ± 0.171 χ^2/NDF : 341275.7/33

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

Left: 1232.283 ± 0.149 χ^2/NDF : 2348717.2/47

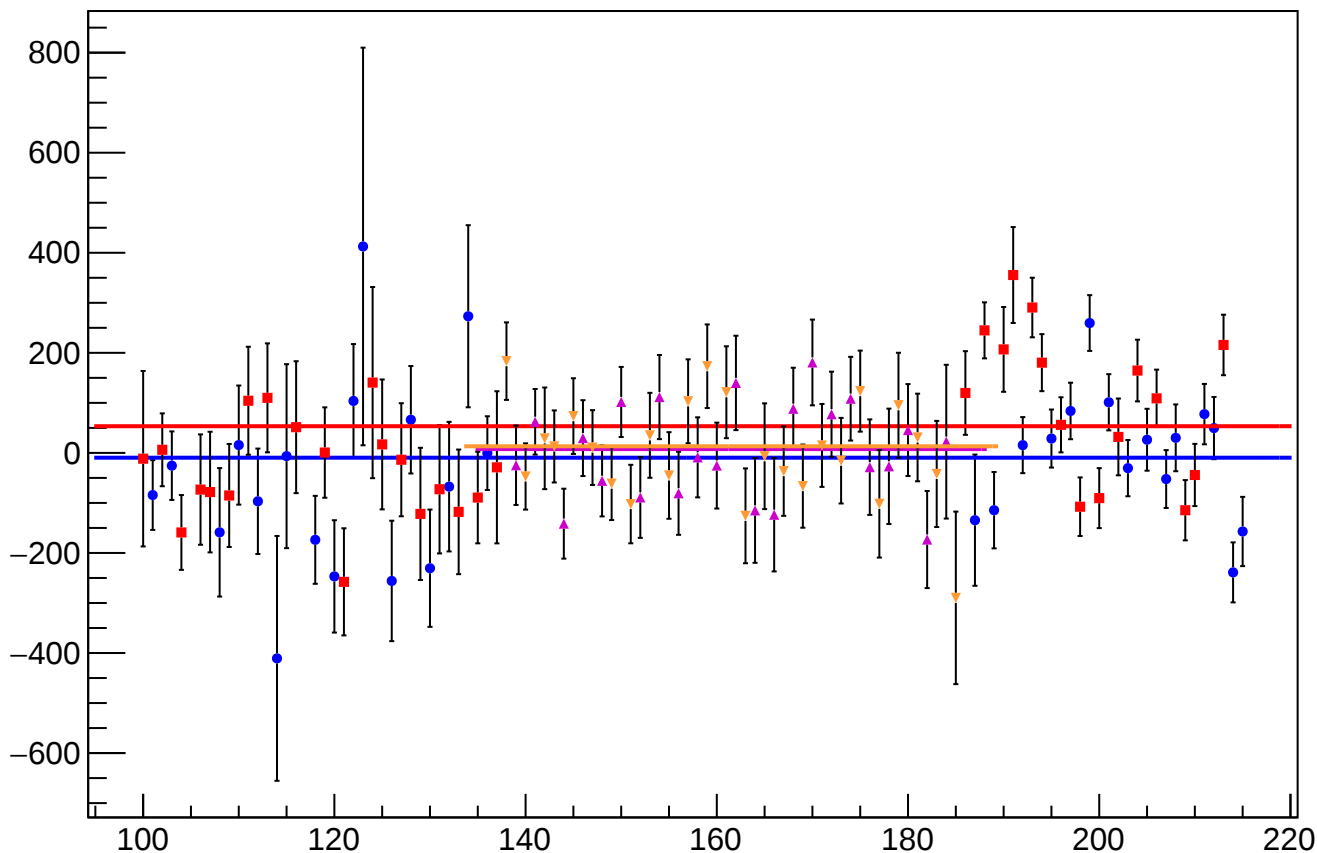
Right: 999.944 ± 0.121 χ^2/NDF : 681441.7/65

In: 1091.932 ± 0.133 χ^2/NDF : 2250983.4/54

Out: 1092.192 ± 0.131 χ^2/NDF : 2252459.1/58

All: 1092.063 ± 0.094 χ^2/NDF : 4503444.5/11

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -9.606 ± 13.606 χ^2/NDF : 83.8/31

Left Out: 13.207 ± 17.146 χ^2/NDF : 26.8/24

Right Out: 53.343 ± 13.688 χ^2/NDF : 111.6/33

Left In: 7.618 ± 17.672 χ^2/NDF : 28.1/22

Left: 10.497 ± 12.306 χ^2/NDF : 55.0/47

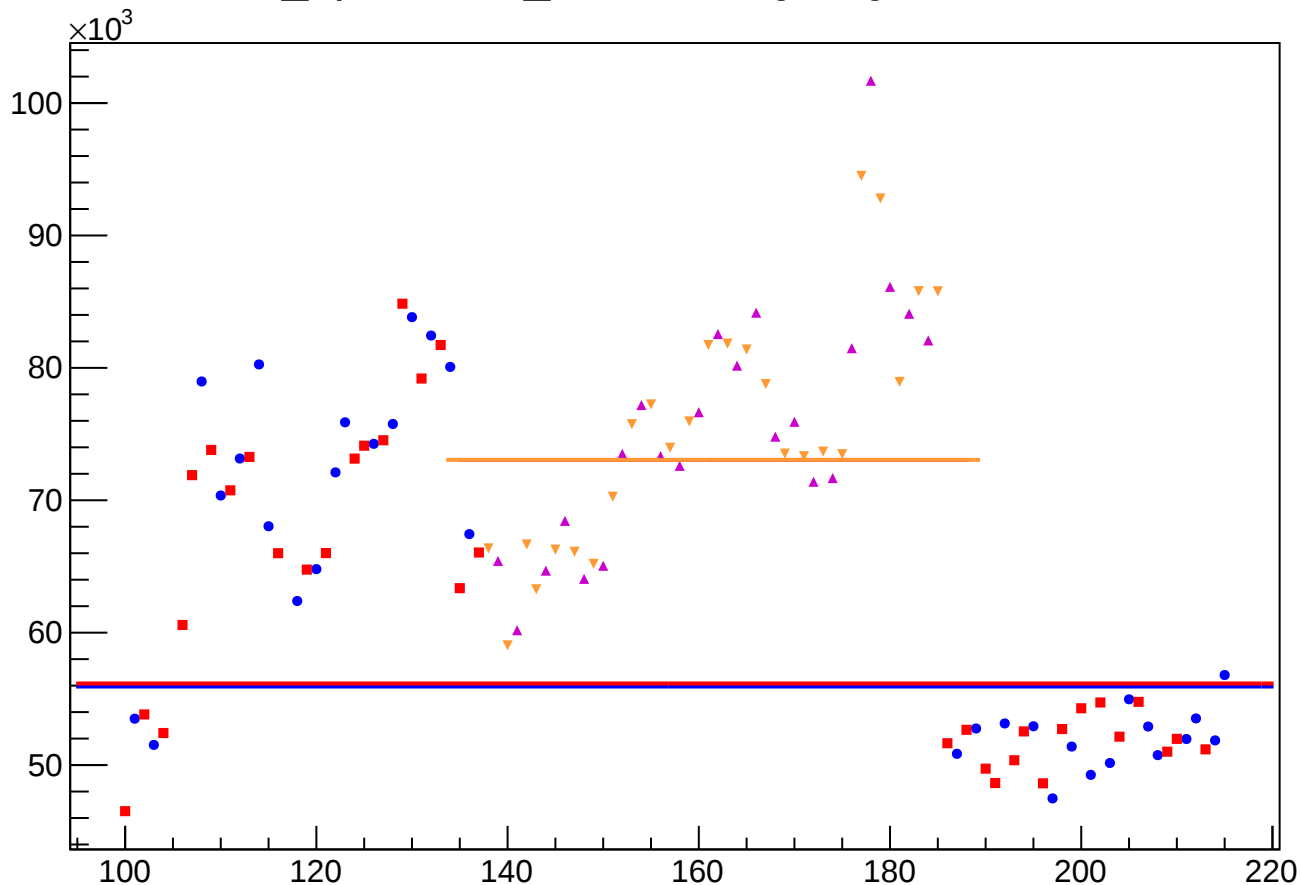
Right: 21.678 ± 9.650 χ^2/NDF : 206.1/65

In: -3.196 ± 10.781 χ^2/NDF : 112.5/54

Out: 37.719 ± 10.698 χ^2/NDF : 141.8/58

All: 17.421 ± 7.594 χ^2/NDF : 261.5/113

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 55932.372 ± 9.621 $\chi^2/\text{NDF}: 814226.4/31$

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

Right Out: 56159.936 ± 9.679 $\chi^2/\text{NDF}: 770527.2/33$

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

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

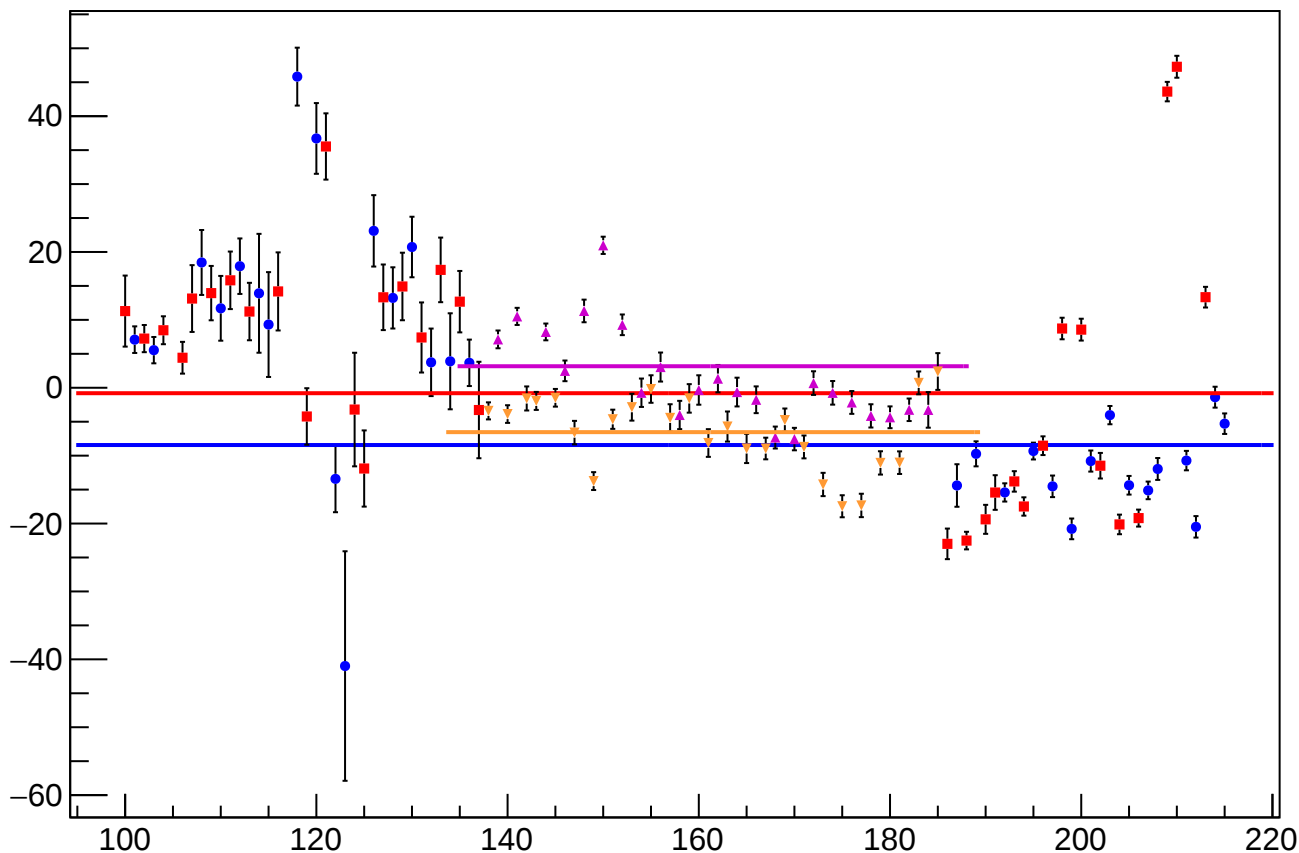
Right: 56045.467 ± 6.824 $\chi^2/\text{NDF}: 1585031.7/65$

In: 62301.526 ± 7.623 $\chi^2/\text{NDF}: 2455284.1/54$

Out: 62736.227 ± 7.564 $\chi^2/\text{NDF}: 2429466.8/58$

All: 62520.561 ± 5.369 $\chi^2/\text{NDF}: 4886389.4/117$

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.435±/0.359 χ^2/NDF : 843.2/31

Left Out: -6.537±/0.332 χ^2/NDF :252.7/24

Right Out: -0.802±/0.365 χ^2/NDF : 3380.6/33

Left In: 3.171±/0.346 χ^2/NDF :487.3/22

Left: -1.892±/0.240 χ^2/NDF : 1149.5/47

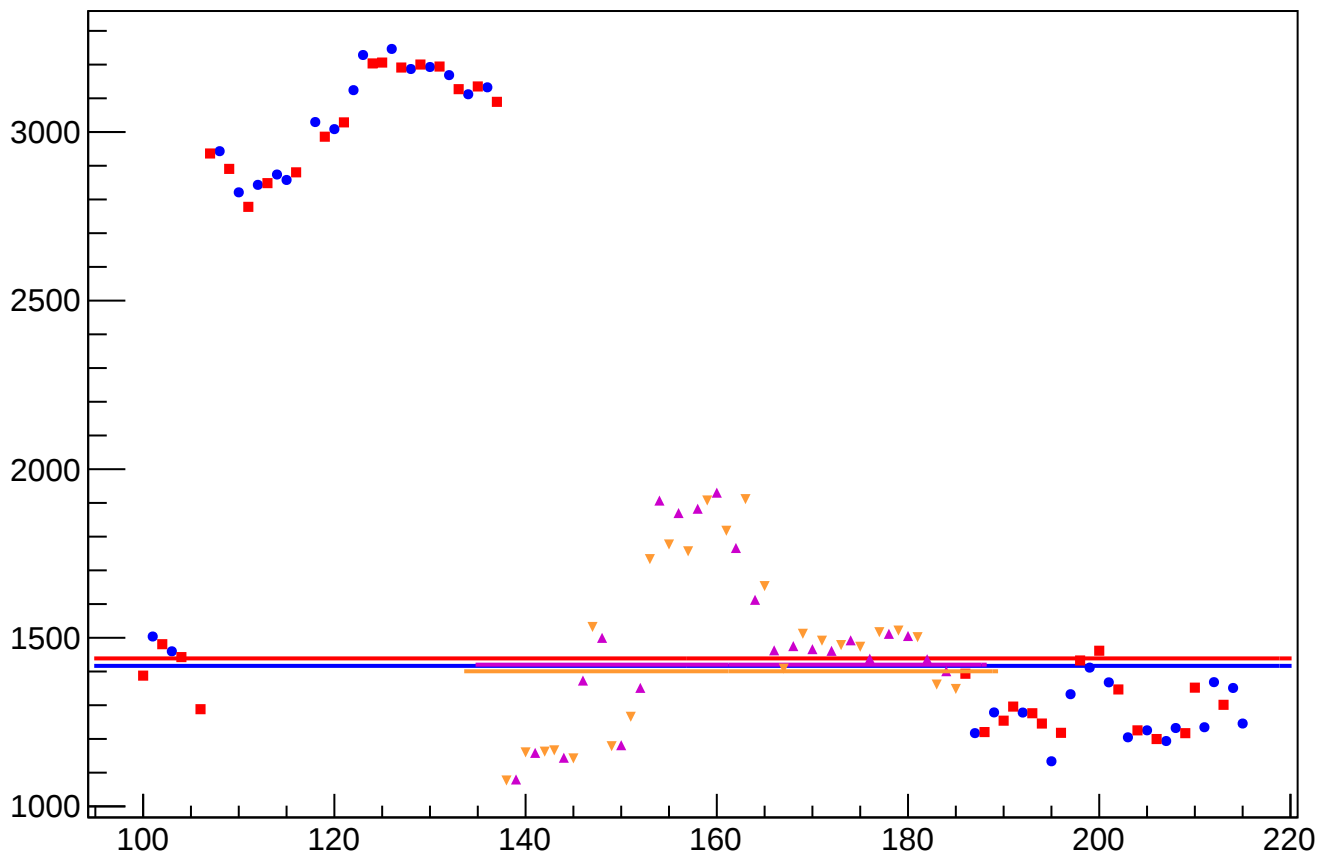
Right: -4.686±/0.256 χ^2/NDF : 4446.2/65

In: -2.431±/0.249 χ^2/NDF :1872.1/54

Out: -3.943±/0.246 χ^2/NDF :3768.4/58

All: -3.198±/0.175 χ^2/NDF : 5659.2/113

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1416.689+/-0.254 χ^2/NDF : 3612302.1/31

Left Out: 1400.637+/-0.235 χ^2/NDF : 1037921.6/24

Right Out: 1438.844+/-0.258 χ^2/NDF : 3553953.0/33

Left In: 1420.285+/-0.245 χ^2/NDF : 905186.2/22

Left: 1410.037+/-0.169 χ^2/NDF : 1946462.8/47

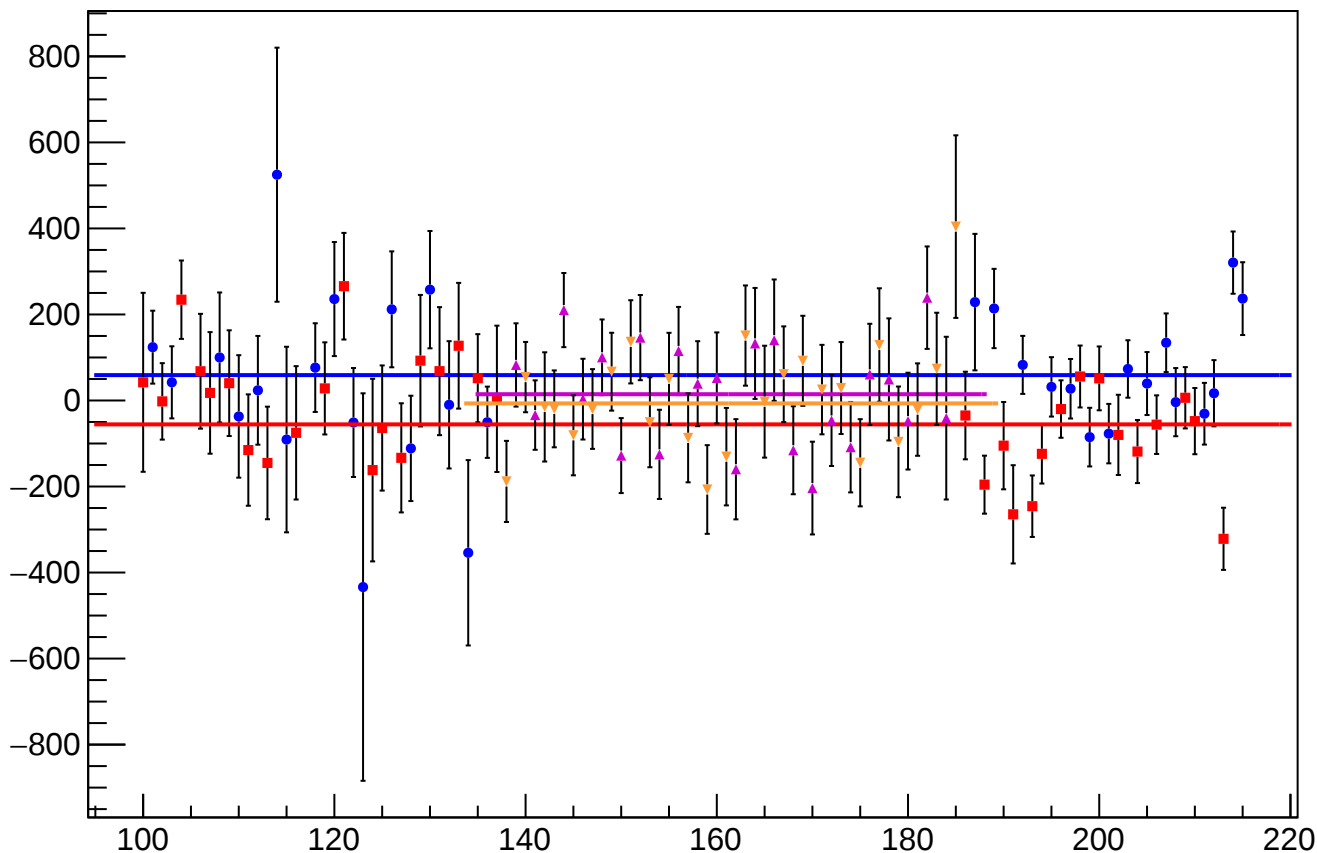
Right: 1427.569+/-0.181 χ^2/NDF : 7170002.1/65

In: 1418.549+/-0.176 χ^2/NDF : 4517592.3/54

Out: 1417.916+/-0.174 χ^2/NDF : 4603867.6/58

All: 1418.228+/-0.124 χ^2/NDF : 9121466.4/111

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 58.999 $\pm$ 16.275 χ^2 /NDF: 53.1/31

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

Right Out: -55.533 $\pm$ 16.399 χ^2 /NDF: 61.4/33

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

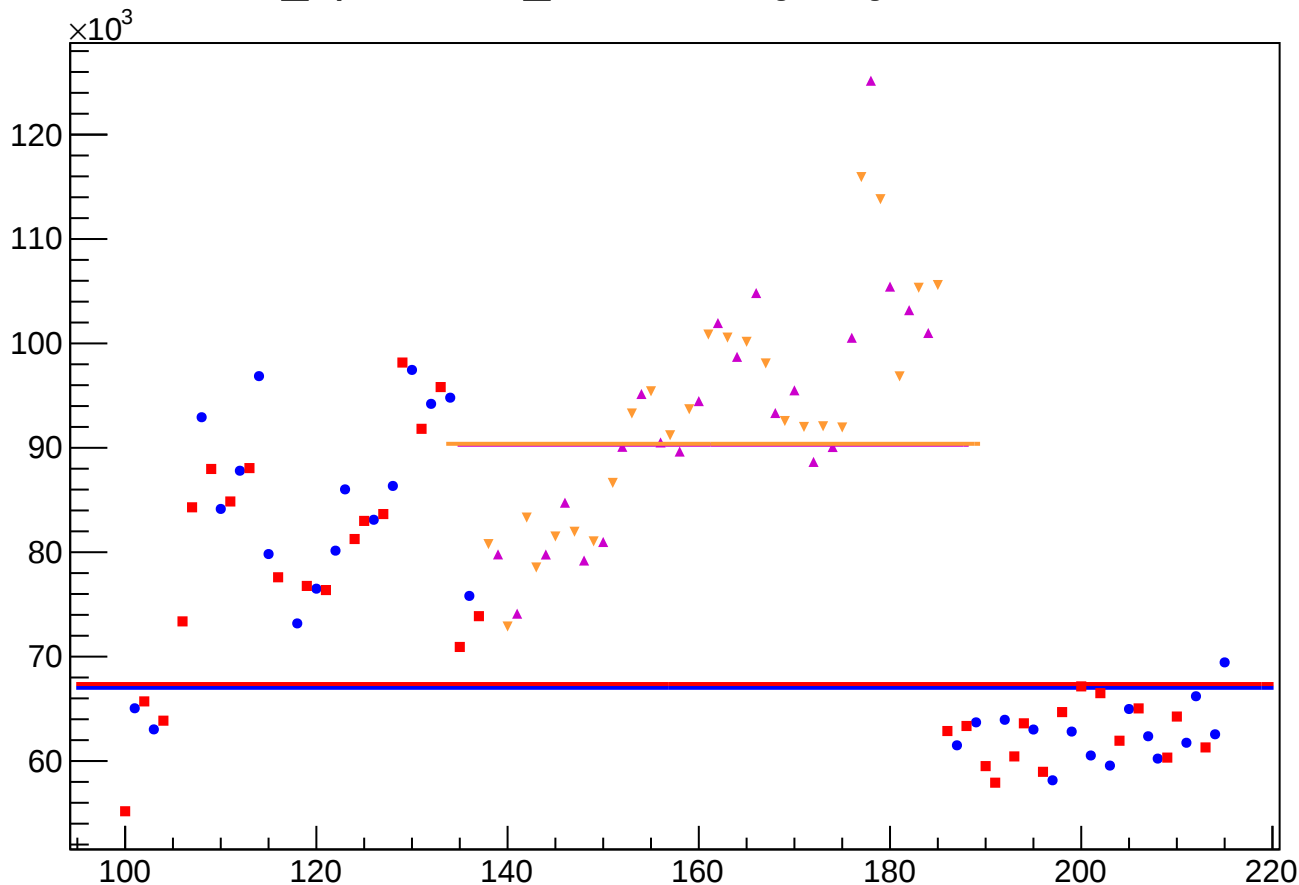
Right: 2.169 $\pm$ 11.552 χ^2 /NDF: 139.0/65

In: 43.157 $\pm$ 13.051 χ^2 /NDF: 85.6/54

Out: -37.299 $\pm$ 12.974 χ^2 /NDF: 89.4/58

All: 2.691 $\pm$ 9.201 χ^2 /NDF: 194.0/113

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67014.706 $\pm$ 11.508 χ^2/NDF : 663271.5/31

Left Out: 90384.853 $\pm$ 15.000 χ^2/NDF : 461648.2/24

Right Out: 67375.354 $\pm$ 11.596 χ^2/NDF : 647684.2/33

Left In: 90293.591 $\pm$ 15.448 χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761 χ^2/NDF : 923003.7/47

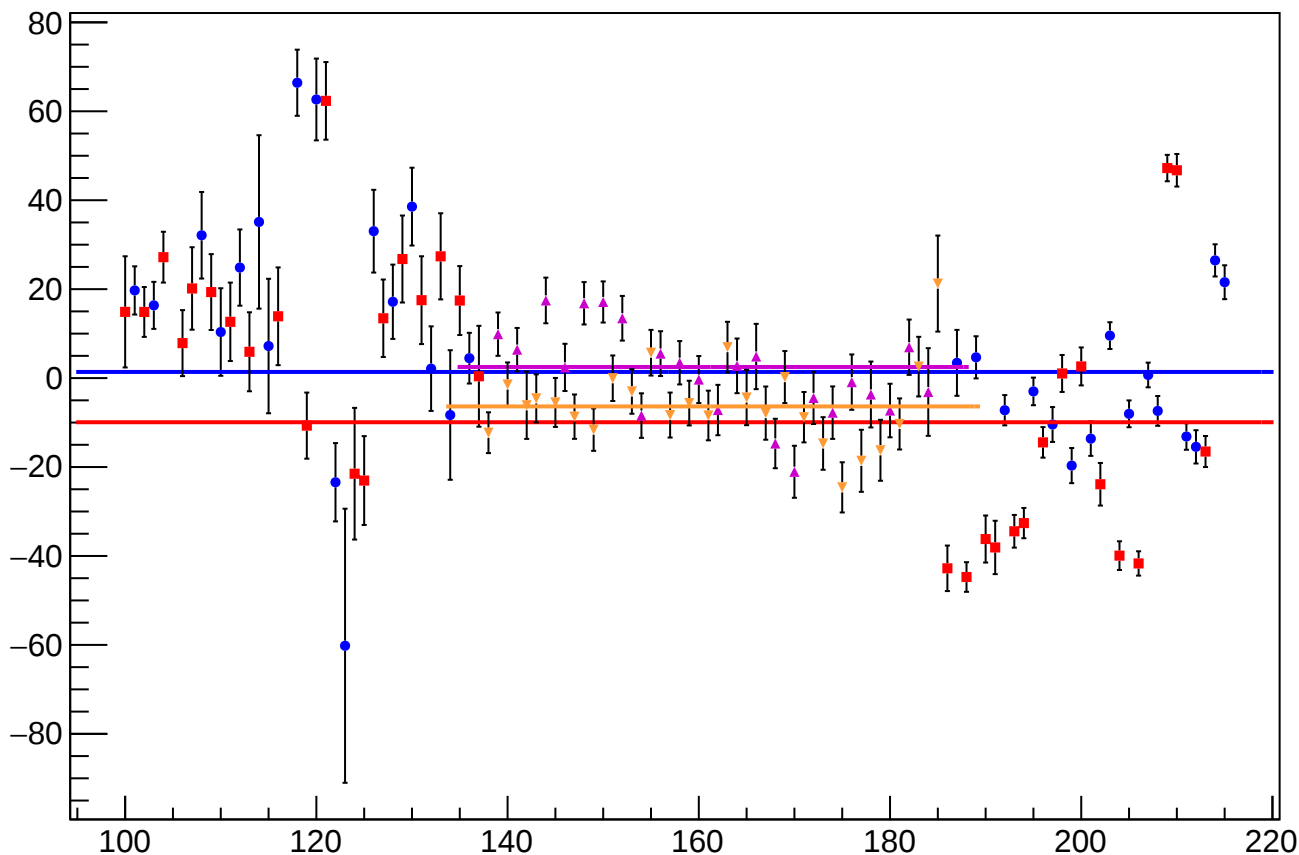
Right: 67193.657 $\pm$ 8.168 χ^2/NDF : 1311443.1/65

In: 75322.962 $\pm$ 9.229 χ^2/NDF : 2585048.1/54

Out: 75982.434 $\pm$ 9.174 χ^2/NDF : 2582198.0/58

All: 75654.649 $\pm$ 6.506 χ^2/NDF : 5169814.4/117

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.385 $\pm$ 0.828 χ^2/NDF : 413.1/31

Left Out: -6.370 $\pm$ 1.124 χ^2/NDF : 45.5/24

Right Out: -9.927 $\pm$ 0.859 χ^2/NDF : 1383.2/33

Left In: 2.501 $\pm$ 1.156 χ^2/NDF : 78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47

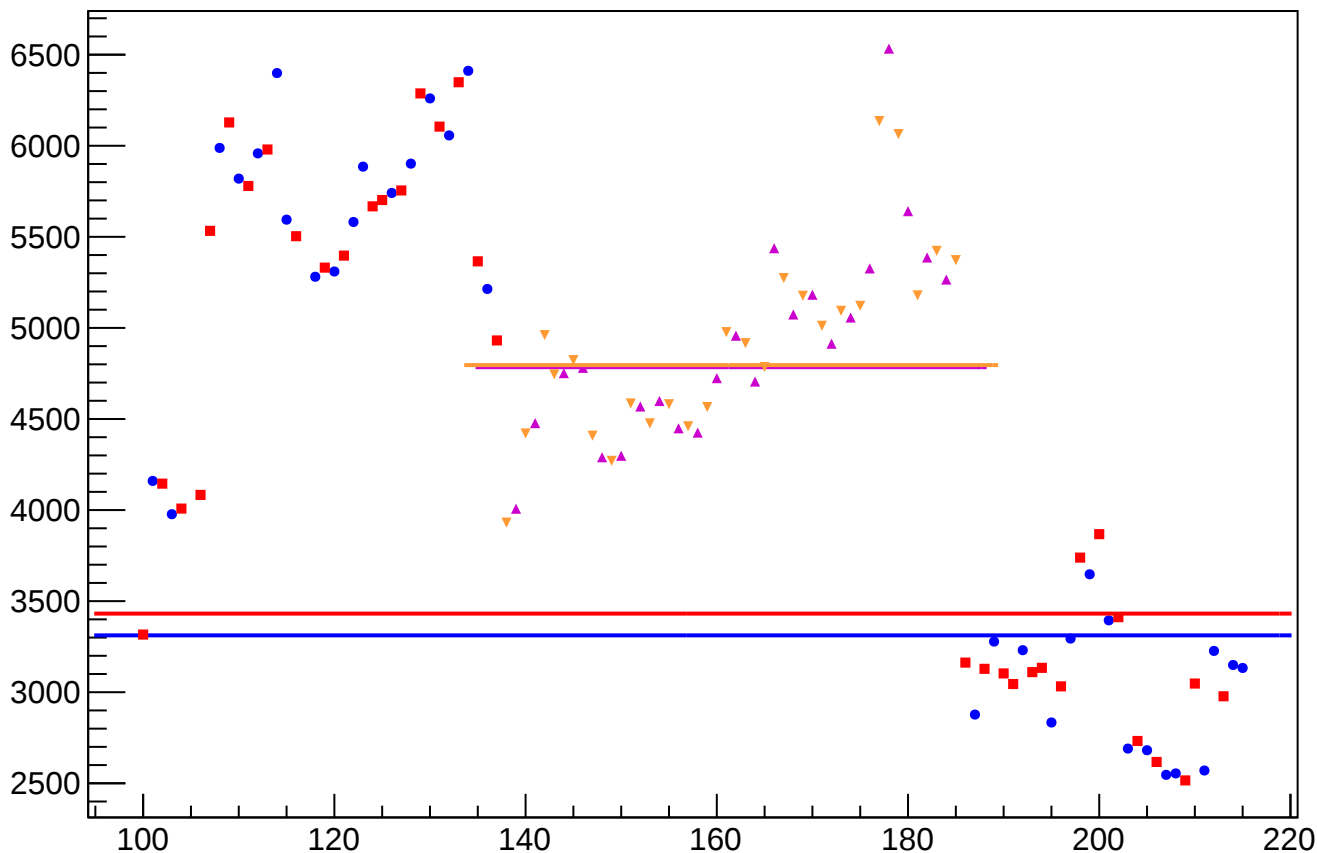
Right: -4.064 $\pm$ 0.596 χ^2/NDF : 1886.0/65

In: 1.764 $\pm$ 0.673 χ^2/NDF : 492.1/54

Out: -8.615 $\pm$ 0.683 χ^2/NDF : 1434.9/58

All: -3.355 $\pm$ 0.479 χ^2/NDF : 2044.2/113

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3312.184 ± 0.586 $\chi^2/\text{NDF}: 2695323.3/31$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3431.606 ± 0.608 $\chi^2/\text{NDF}: 2574535.6/33$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

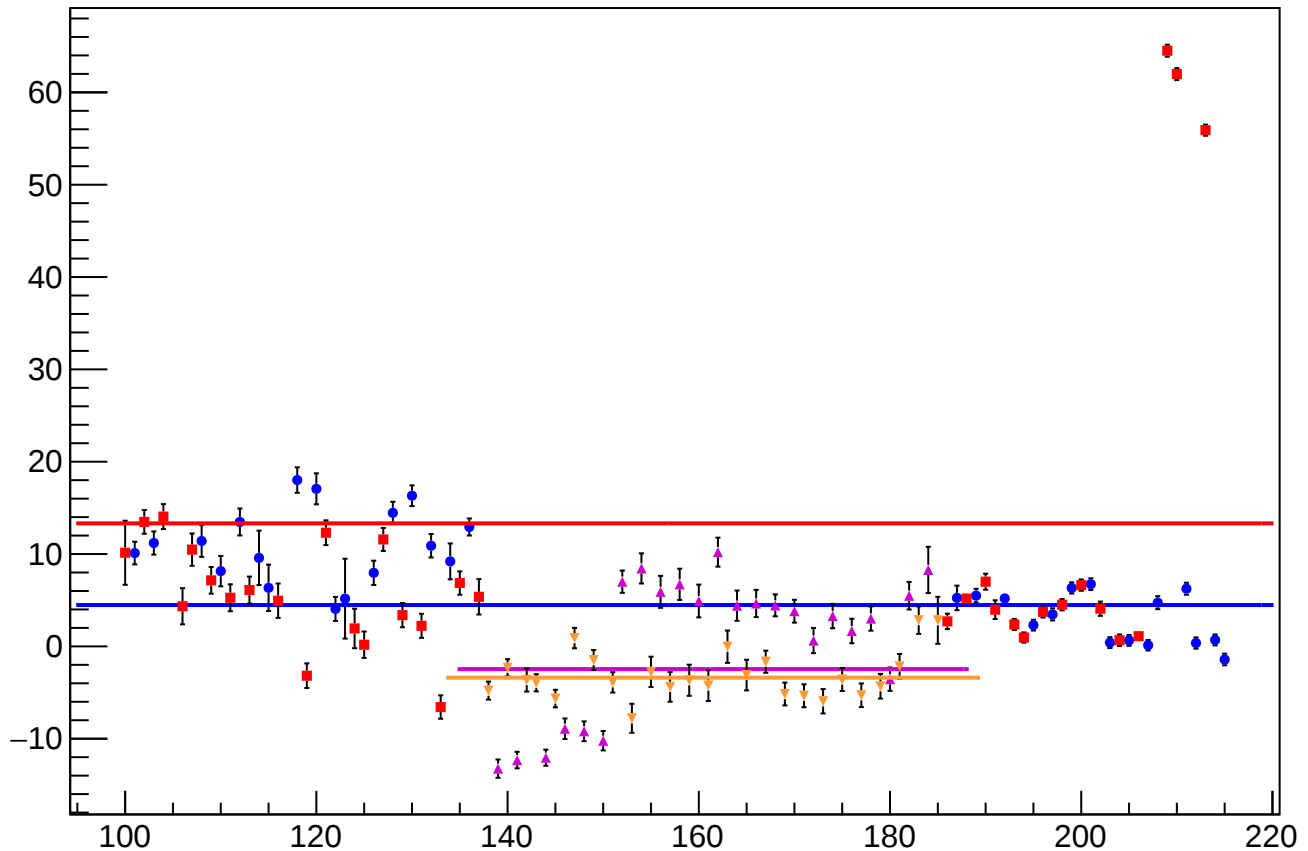
Right: 3369.710 ± 0.422 $\chi^2/\text{NDF}: 5289876.9/65$

In: 3811.812 ± 0.476 $\chi^2/\text{NDF}: 5196223.1/54$

Out: 3934.957 ± 0.483 $\chi^2/\text{NDF}: 4795463.1/58$

All: 3872.542 ± 0.339 $\chi^2/\text{NDF}: 10024672.4/110$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 4.480 ± 0.147 $\chi^2/\text{NDF}: 940.6/31$

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

Right Out: 13.323 ± 0.149 $\chi^2/\text{NDF}: 20616.4/33$

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

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

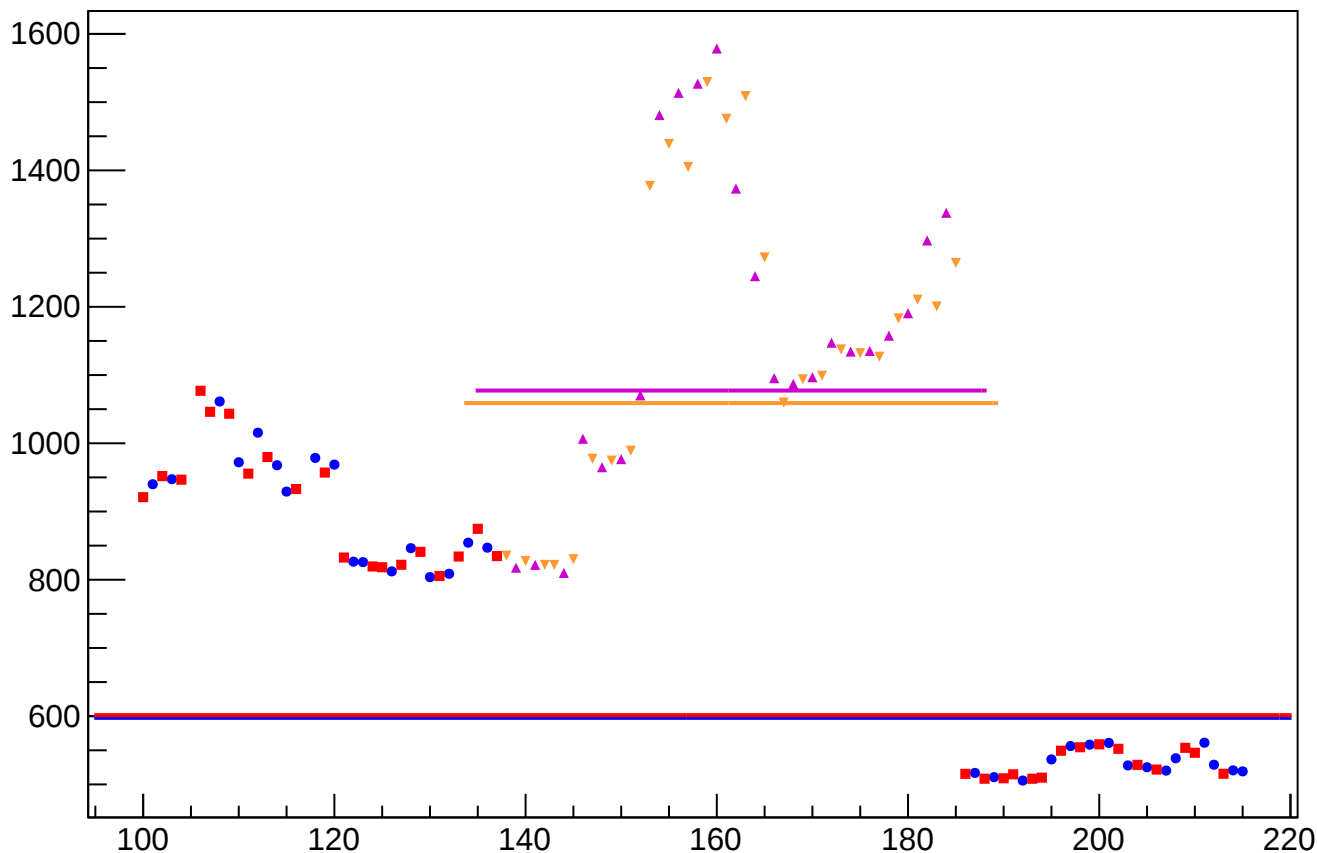
Right: 8.847 ± 0.105 $\chi^2/\text{NDF}: 23339.8/65$

In: 2.837 ± 0.129 $\chi^2/\text{NDF}: 2394.7/54$

Out: 9.000 ± 0.128 $\chi^2/\text{NDF}: 23948.3/58$

All: 5.926 ± 0.091 $\chi^2/\text{NDF}: 27494.0/113$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 597.594 $\pm$ 0.104 χ^2 /NDF: 1896010.3/31

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

Right Out: 601.515 $\pm$ 0.105 χ^2 /NDF: 2085760.4/33

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

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

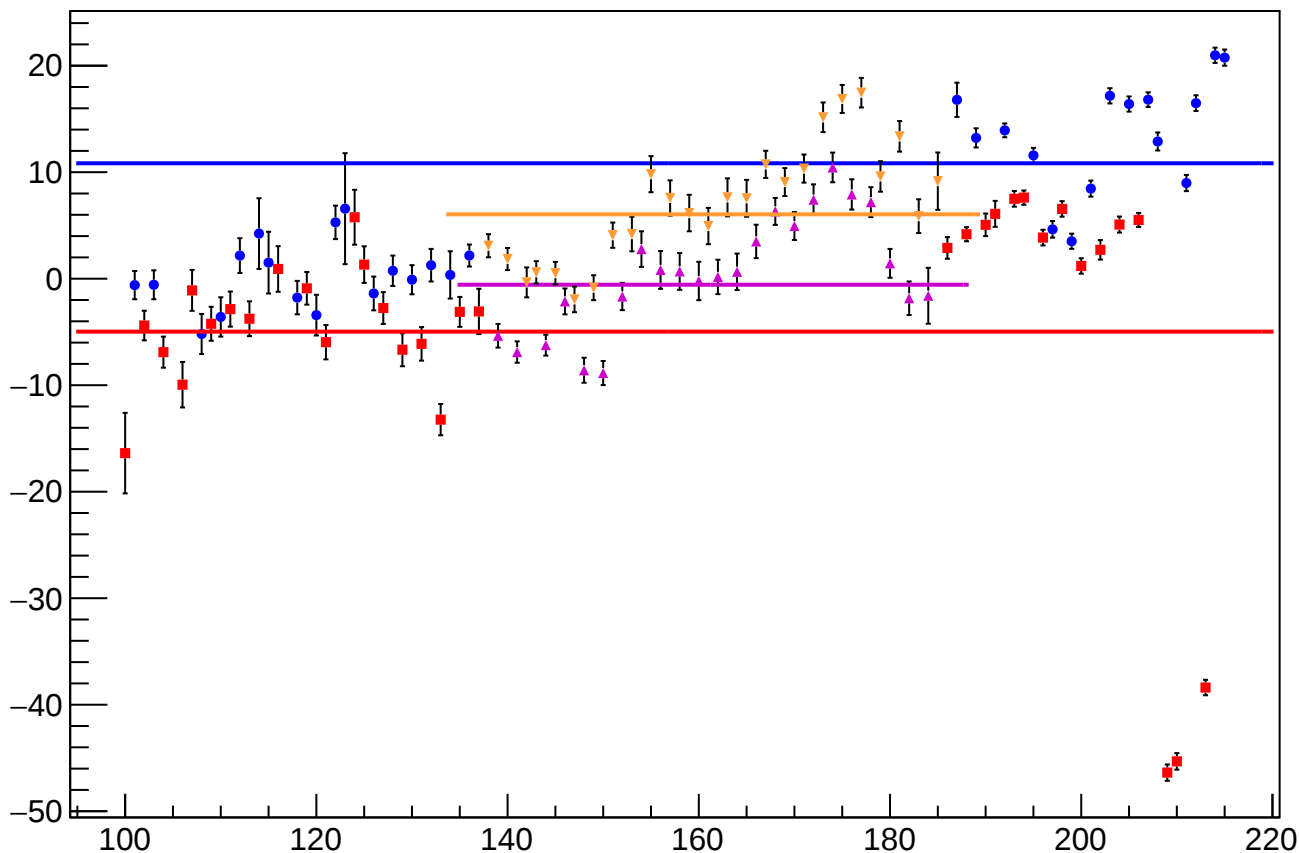
Right: 599.531 $\pm$ 0.074 χ^2 /NDF: 3982471.7/65

In: 711.105 $\pm$ 0.091 χ^2 /NDF:8202972.5/54

Out: 719.828 $\pm$ 0.091 χ^2 /NDF:8364481.8/58

All: 715.477 $\pm$ 0.064 χ^2 /NDF: 16572066.2/111

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 10.838 ± 0.176 $\chi^2/\text{NDF}: 1638.3/31$

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

Right Out: -4.969 ± 0.178 $\chi^2/\text{NDF}: 9854.6/33$

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

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

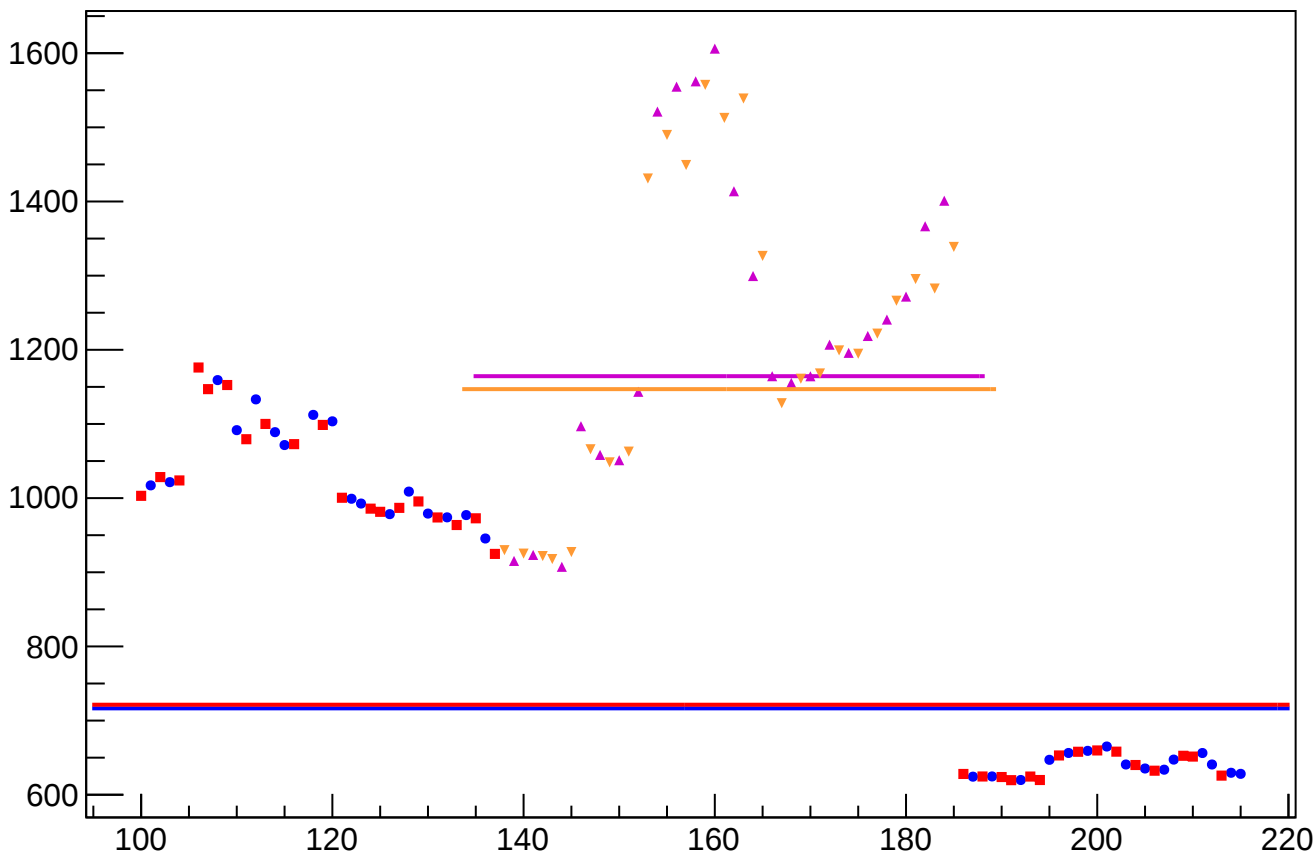
Right: 3.026 ± 0.125 $\chi^2/\text{NDF}: 15496.2/65$

In: 7.685 ± 0.149 $\chi^2/\text{NDF}: 3220.9/54$

Out: -1.669 ± 0.149 $\chi^2/\text{NDF}: 11436.7/58$

All: 2.986 ± 0.105 $\chi^2/\text{NDF}: 16627.2/113$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 716.493+/-0.124 χ^2/NDF : 1562707.9/31

Left Out: 1146.960+/-0.192 χ^2/NDF :1045761.4/24

Right Out: 721.408+/-0.126 χ^2/NDF : 1701195.4/33

Left In: 1164.432+/-0.201 χ^2/NDF :944112.0/22

Left: 1155.305+/-0.139 χ^2/NDF : 1993824.0/47

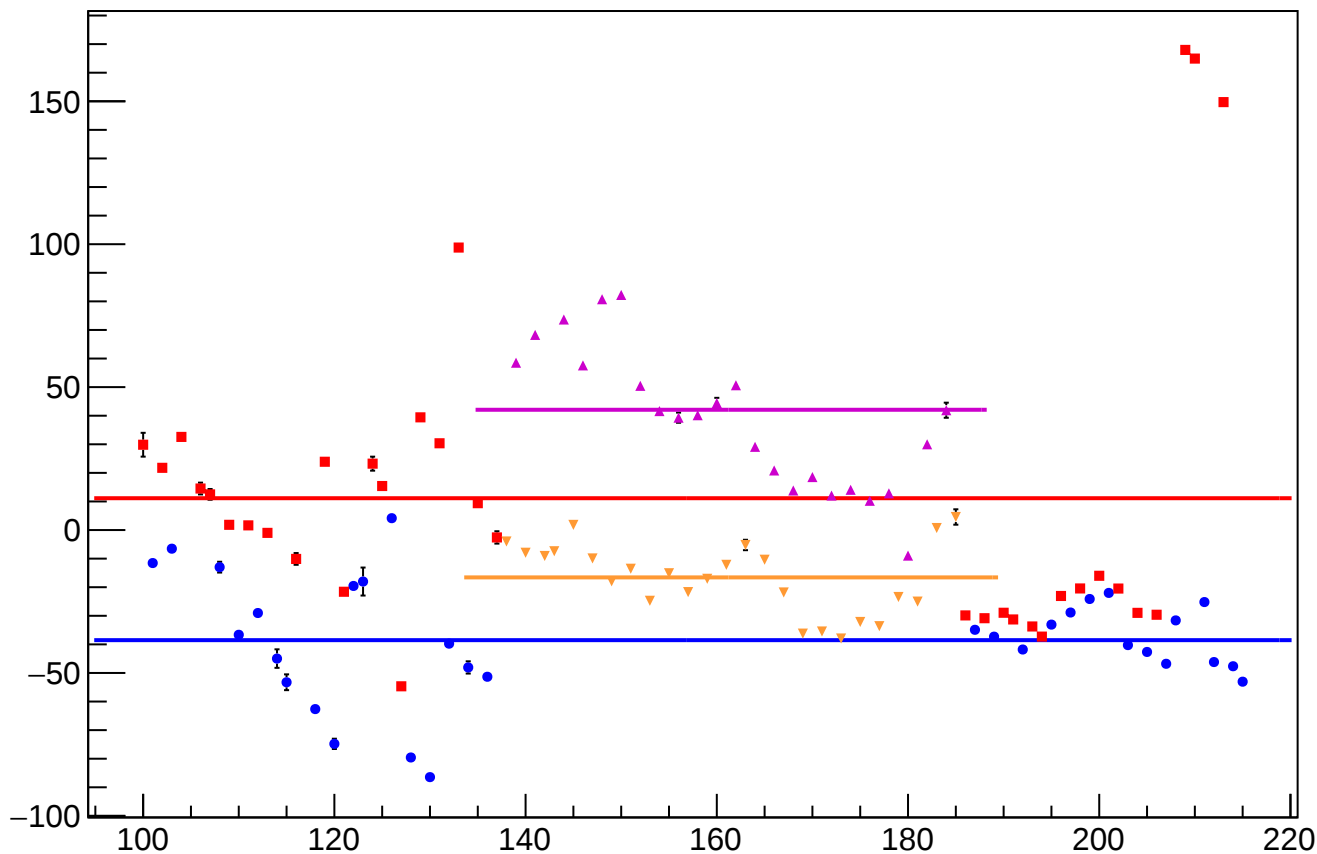
Right: 718.922+/-0.088 χ^2/NDF : 3264677.5/65

In: 840.326+/-0.106 χ^2/NDF :6103699.9/54

Out: 848.907+/-0.105 χ^2/NDF :6184015.6/58

All: 844.636+/-0.075 χ^2/NDF : 12291029.8/11

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -38.523 ± 0.174 χ^2/NDF : 7509.0/31

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: 11.134 ± 0.175 χ^2/NDF : 155352.7/33

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

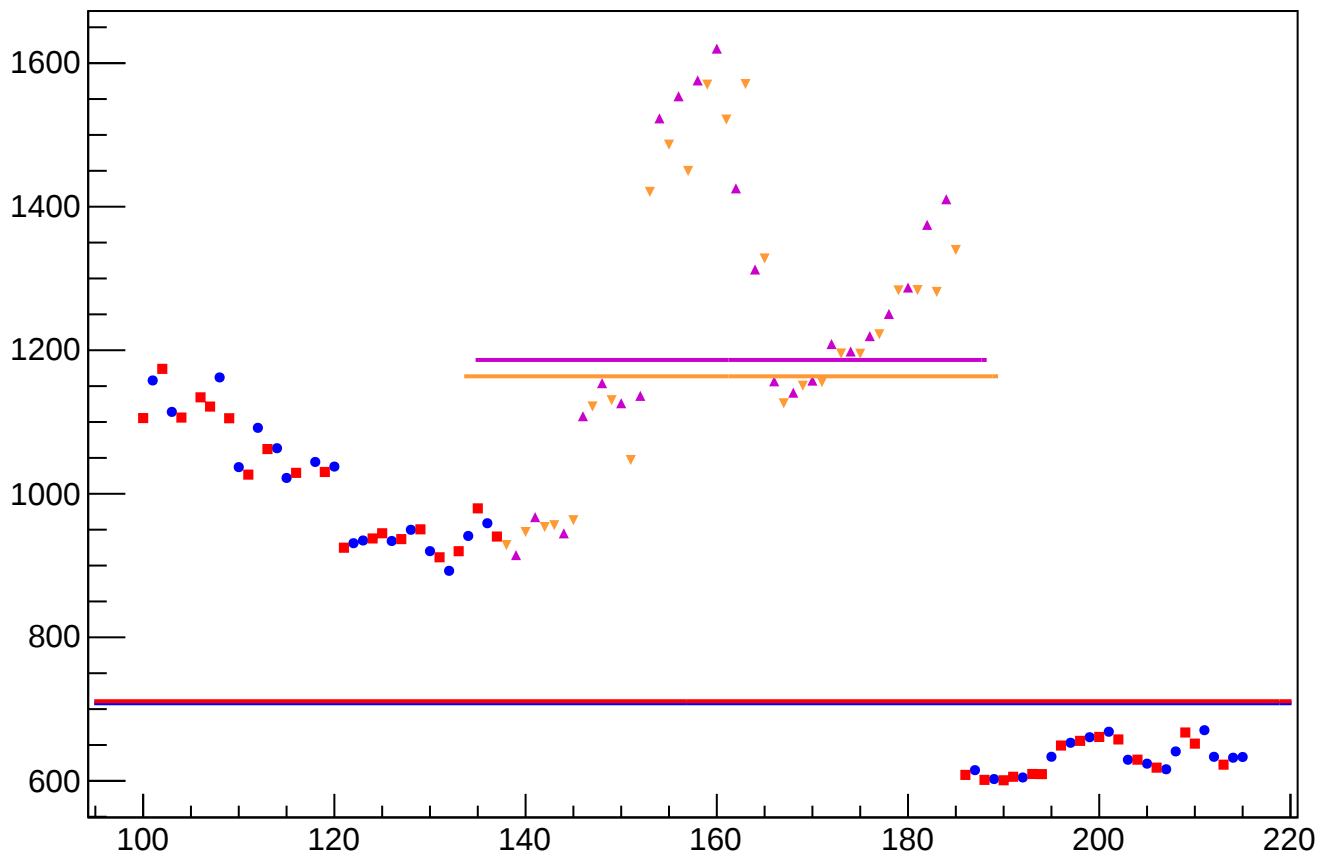
Right: -13.916 ± 0.123 χ^2/NDF : 203452.7/65

In: -17.179 ± 0.149 χ^2/NDF : 72988.5/54

Out: 3.157 ± 0.148 χ^2/NDF : 164494.9/58

All: -6.939 ± 0.105 χ^2/NDF : 246892.6/113

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 708.149 ± 0.123 $\chi^2/\text{NDF}: 1551051.0/31$

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

Right Out: 710.994 ± 0.124 $\chi^2/\text{NDF}: 1693760.4/33$

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

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

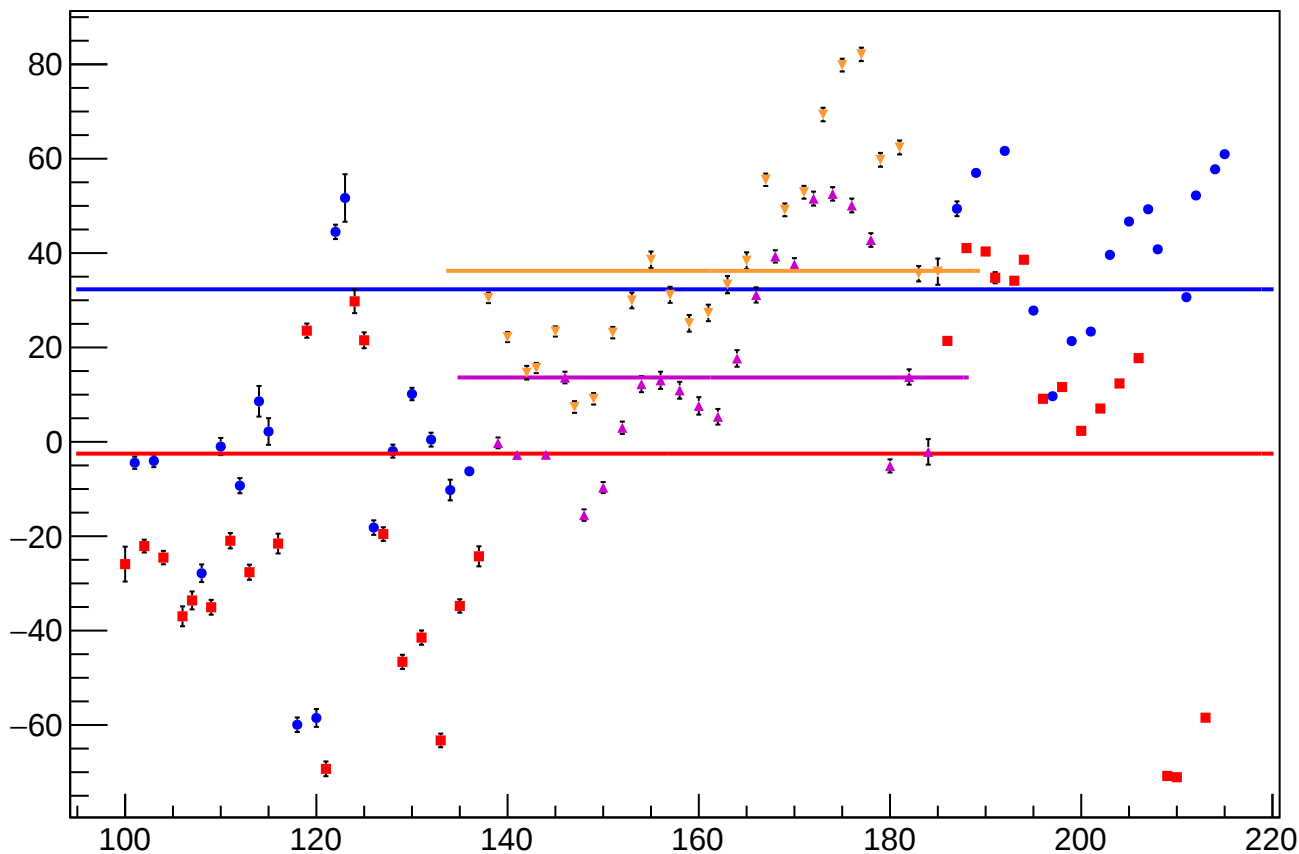
Right: 709.559 ± 0.087 $\chi^2/\text{NDF}: 3245077.8/65$

In: 834.817 ± 0.105 $\chi^2/\text{NDF}: 6409827.5/54$

Out: 841.363 ± 0.104 $\chi^2/\text{NDF}: 6481504.2/58$

All: 838.113 ± 0.074 $\chi^2/\text{NDF}: 12893281.7/11$

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 32.320 ± 0.171 $\chi^2/\text{NDF}: 23189.2/31$

Left Out: 36.234 ± 0.280 $\chi^2/\text{NDF}: 5794.2/24$

Right Out: -2.498 ± 0.173 $\chi^2/\text{NDF}: 48029.4/33$

Left In: 13.640 ± 0.293 $\chi^2/\text{NDF}: 5178.0/22$

Left: 25.447 ± 0.202 $\chi^2/\text{NDF}: 14084.0/47$

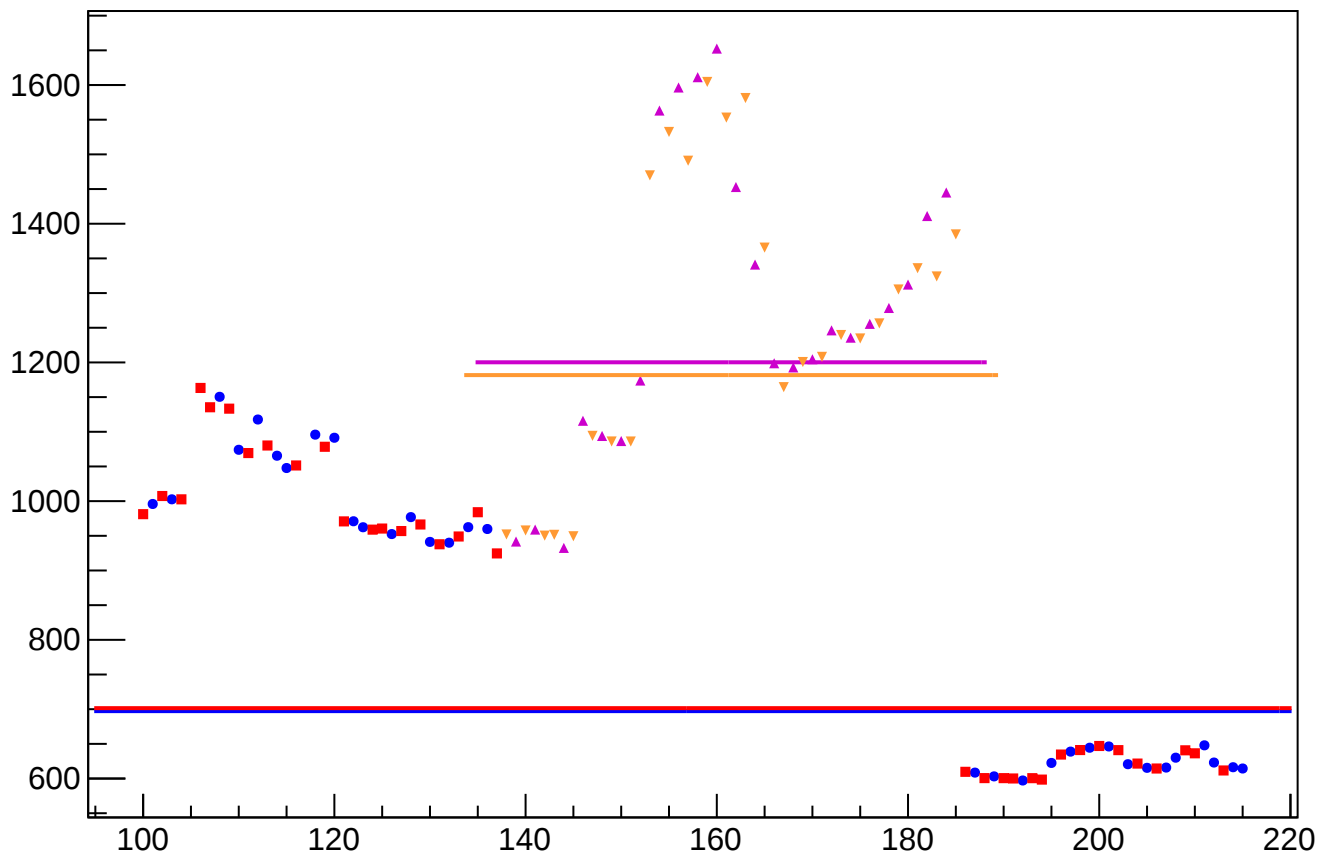
Right: 15.104 ± 0.122 $\chi^2/\text{NDF}: 91714.2/65$

In: 27.568 ± 0.148 $\chi^2/\text{NDF}: 31402.1/54$

Out: 8.203 ± 0.147 $\chi^2/\text{NDF}: 67684.6/58$

All: 17.848 ± 0.104 $\chi^2/\text{NDF}: 107718.1/113$

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 697.213+/-0.121 χ^2/NDF : 1627223.4/31

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

Right Out: 701.498+/-0.122 χ^2/NDF : 1773993.2/33

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

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

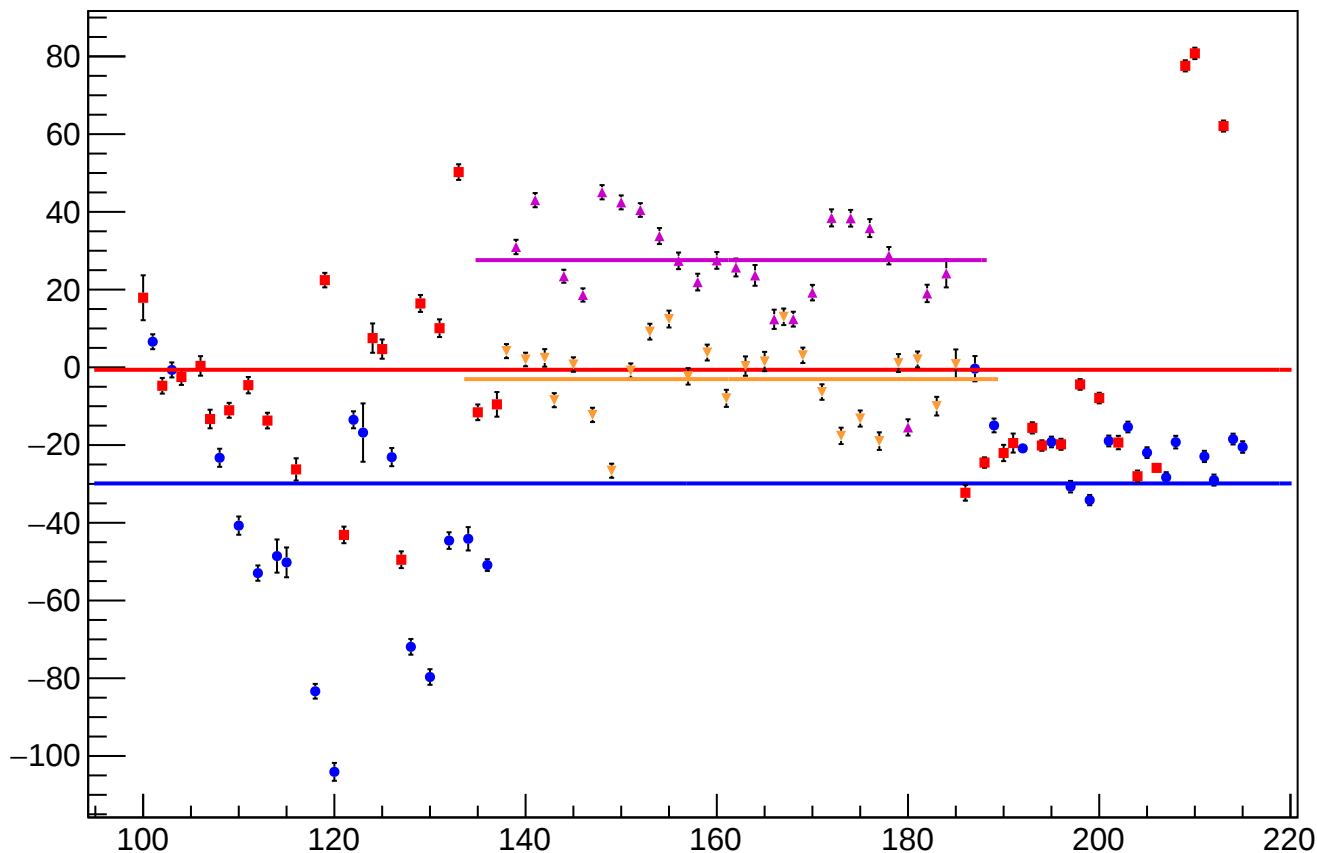
Right: 699.332+/-0.086 χ^2/NDF : 3401837.3/65

In: 825.157+/-0.104 χ^2/NDF :6966348.6/54

Out: 834.176+/-0.104 χ^2/NDF :7079224.7/58

All: 829.684+/-0.074 χ^2/NDF : 14049317.3/11

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -29.876 ± 0.310 χ^2/NDF : 4662.7/31

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -0.634 ± 0.312 χ^2/NDF : 12119.9/33

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

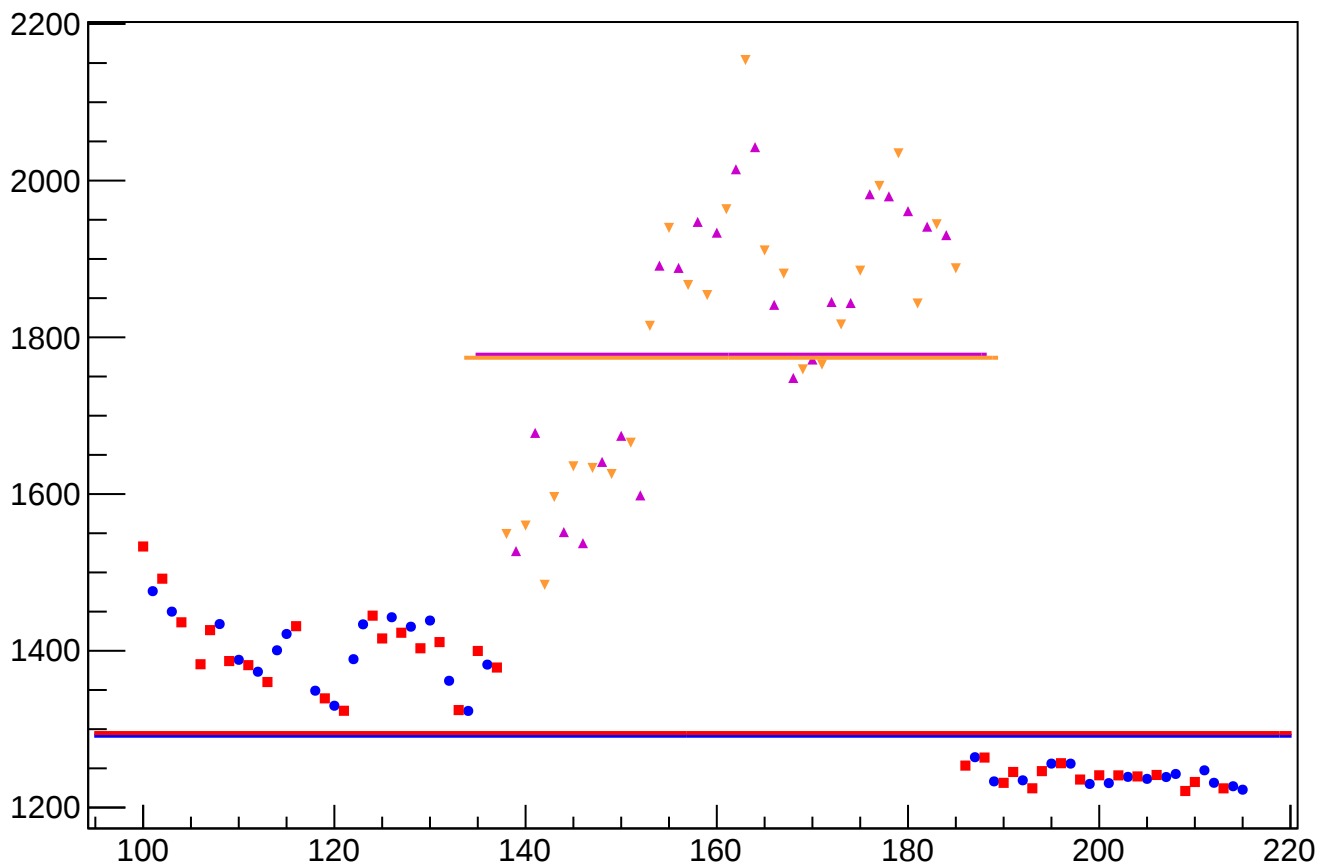
Right: -15.338 ± 0.220 χ^2/NDF : 21209.7/65

In: -10.177 ± 0.251 χ^2/NDF : 17410.2/54

Out: -1.500 ± 0.249 χ^2/NDF : 12696.9/58

All: -5.804 ± 0.177 χ^2/NDF : 30708.3/113

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1291.621+/-0.219 χ^2/NDF : 136689.5/31

Left Out: 1773.965+/-0.294 χ^2/NDF : 313031.1/24

Right Out: 1295.056+/-0.220 χ^2/NDF : 131186.7/33

Left In: 1777.884+/-0.303 χ^2/NDF : 299514.0/22

Left: 1775.860+/-0.211 χ^2/NDF : 612631.3/47

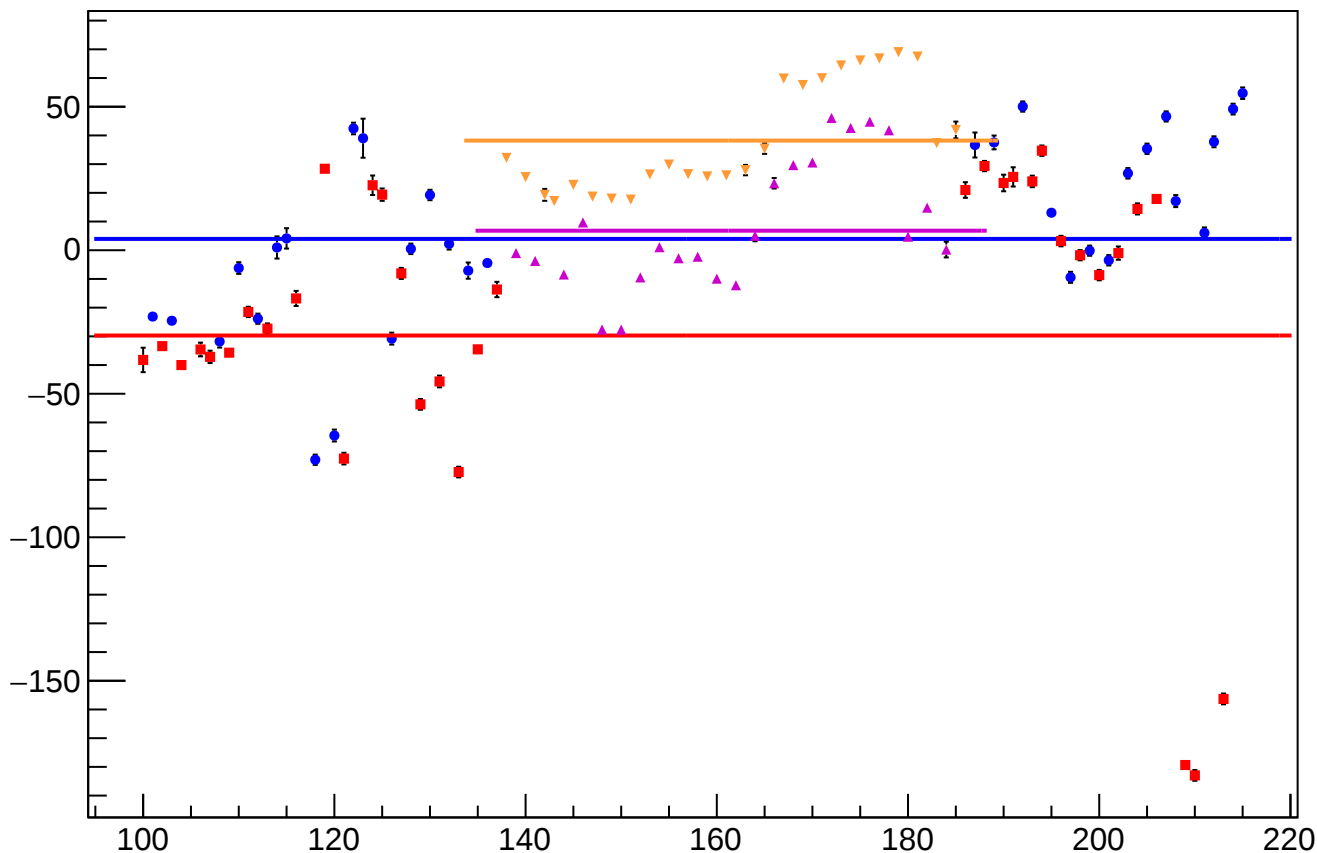
Right: 1293.329+/-0.155 χ^2/NDF : 267998.4/65

In: 1458.328+/-0.178 χ^2/NDF : 2124636.9/54

Out: 1467.694+/-0.176 χ^2/NDF : 2146834.0/58

All: 1463.048+/-0.125 χ^2/NDF : 4272872.2/111

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 3.947 ± 0.344 χ^2/NDF : 8627.1/31

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

Right Out: -29.710 ± 0.341 χ^2/NDF : 28384.5/33

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

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

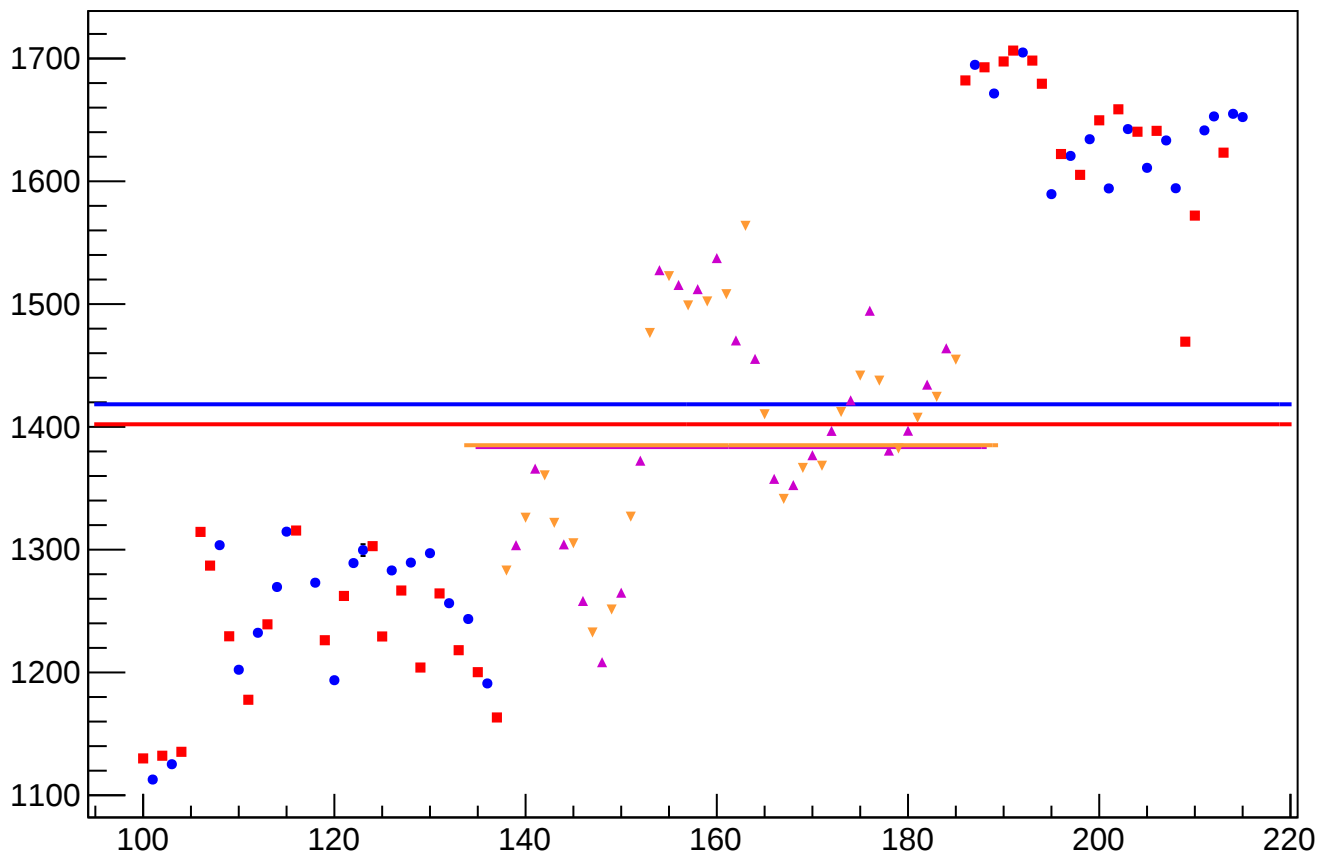
Right: -13.022 ± 0.242 χ^2/NDF : 41851.5/65

In: 5.422 ± 0.239 χ^2/NDF : 13157.4/54

Out: 6.015 ± 0.235 χ^2/NDF : 52806.2/58

All: 5.724 ± 0.167 χ^2/NDF : 65966.7/113

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1418.394 ± 0.243 χ^2/NDF : 760778.8/31

Left Out: 1385.063 ± 0.229 χ^2/NDF : 146001.5/24

Right Out: 1402.115 ± 0.241 χ^2/NDF : 787061.6/33

Left In: 1383.558 ± 0.235 χ^2/NDF : 154696.0/22

Left: 1384.333 ± 0.164 χ^2/NDF : 300718.5/47

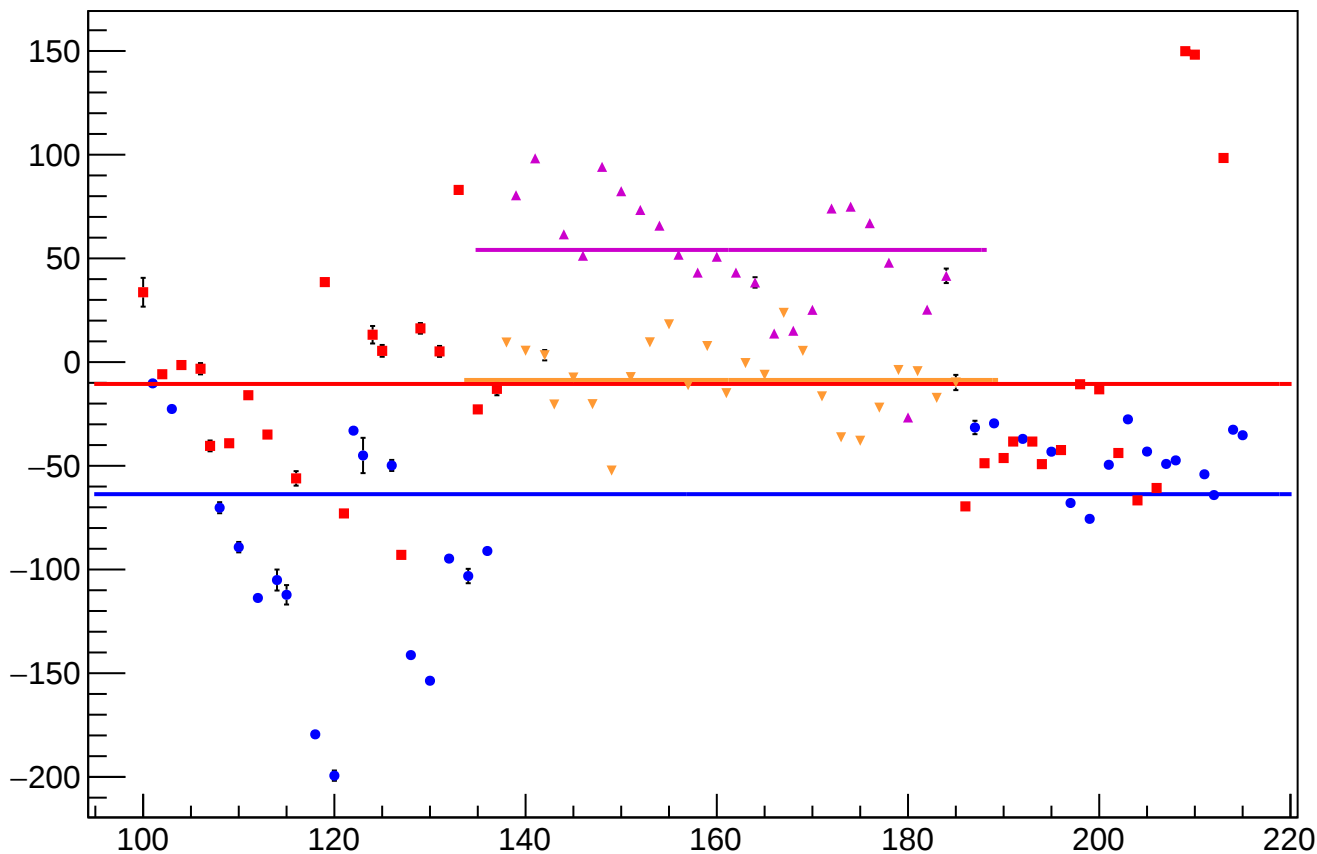
Right: 1410.187 ± 0.171 χ^2/NDF : 1550105.0/65

In: 1400.434 ± 0.169 χ^2/NDF : 926079.6/54

Out: 1393.145 ± 0.166 χ^2/NDF : 935698.8/58

All: 1396.720 ± 0.118 χ^2/NDF : 1862725.6/11

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -63.674 ± 0.349 χ^2/NDF : 13792.8/31

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

Right Out: -10.531 ± 0.346 χ^2/NDF : 32719.2/33

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

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

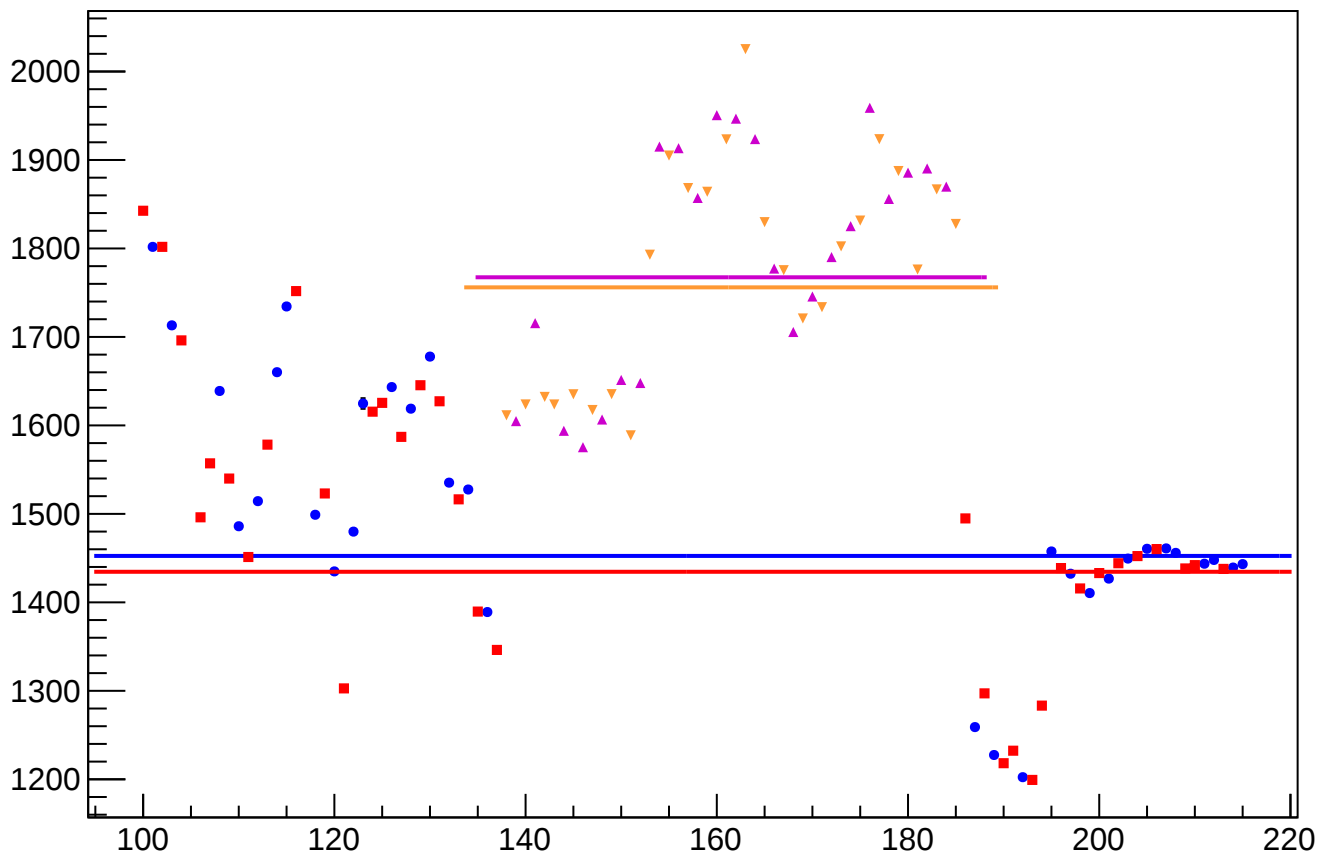
Right: -36.868 ± 0.246 χ^2/NDF : 58197.9/65

In: -16.306 ± 0.270 χ^2/NDF : 64272.7/54

Out: -9.731 ± 0.265 χ^2/NDF : 34662.7/58

All: -12.952 ± 0.189 χ^2/NDF : 99238.1/113

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1452.483 $\pm$ 0.247 χ^2 /NDF: 261875.2/31

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

Right Out: 1434.560 $\pm$ 0.245 χ^2 /NDF: 308801.1/33

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

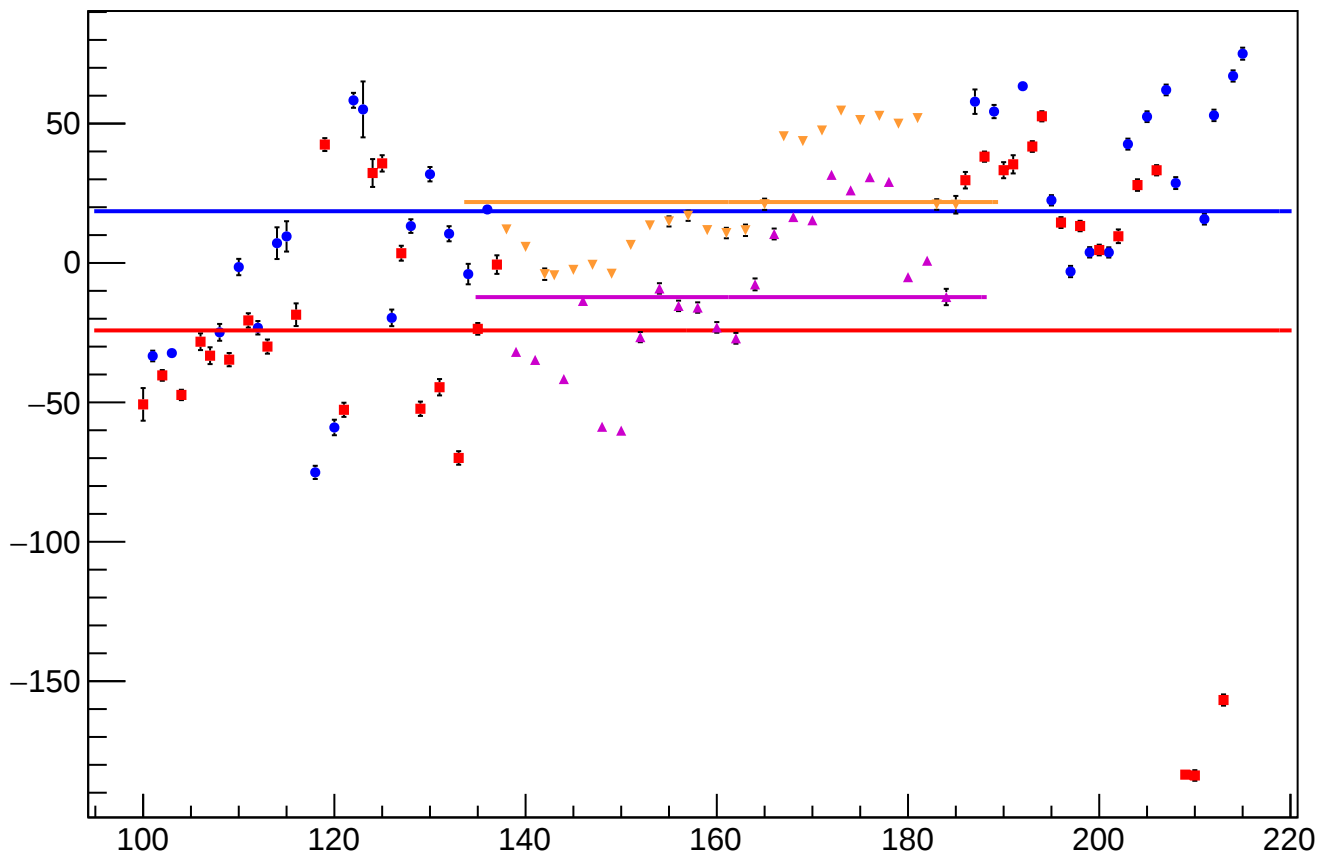
Right: 1443.442 $\pm$ 0.174 χ^2 /NDF: 573334.6/65

In: 1579.156 $\pm$ 0.191 χ^2 /NDF:1104323.8/54

Out: 1568.227 $\pm$ 0.187 χ^2 /NDF:1202116.1/58

All: 1573.580 $\pm$ 0.134 χ^2 /NDF: 2308112.5/111

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 18.564+/-0.402 χ^2/NDF : 8677.1/31

Left Out: 21.856+/-0.335 χ^2/NDF : 4110.5/24

Right Out: -24.193+/-0.397 χ^2/NDF : 31157.7/33

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

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

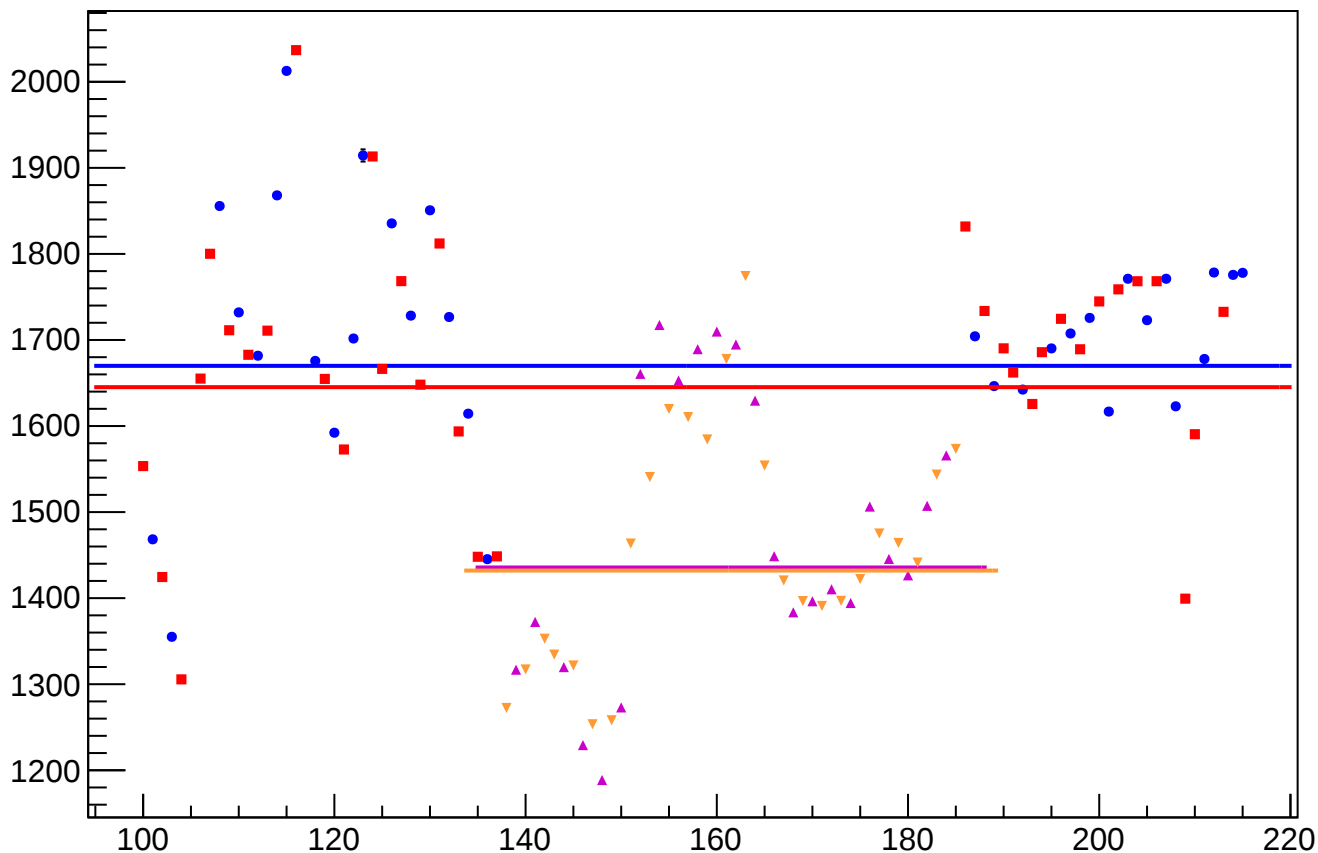
Right: -3.061+/-0.282 χ^2/NDF : 45568.5/65

In: 0.927+/-0.263 χ^2/NDF : 18828.4/54

Out: 2.681+/-0.256 χ^2/NDF : 43121.1/58

All: 1.826+/-0.183 χ^2/NDF : 61972.3/113

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1669.935 $\pm$ 0.284 χ^2 /NDF: 198783.7/31

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1645.172 $\pm$ 0.281 χ^2 /NDF: 258707.7/33

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

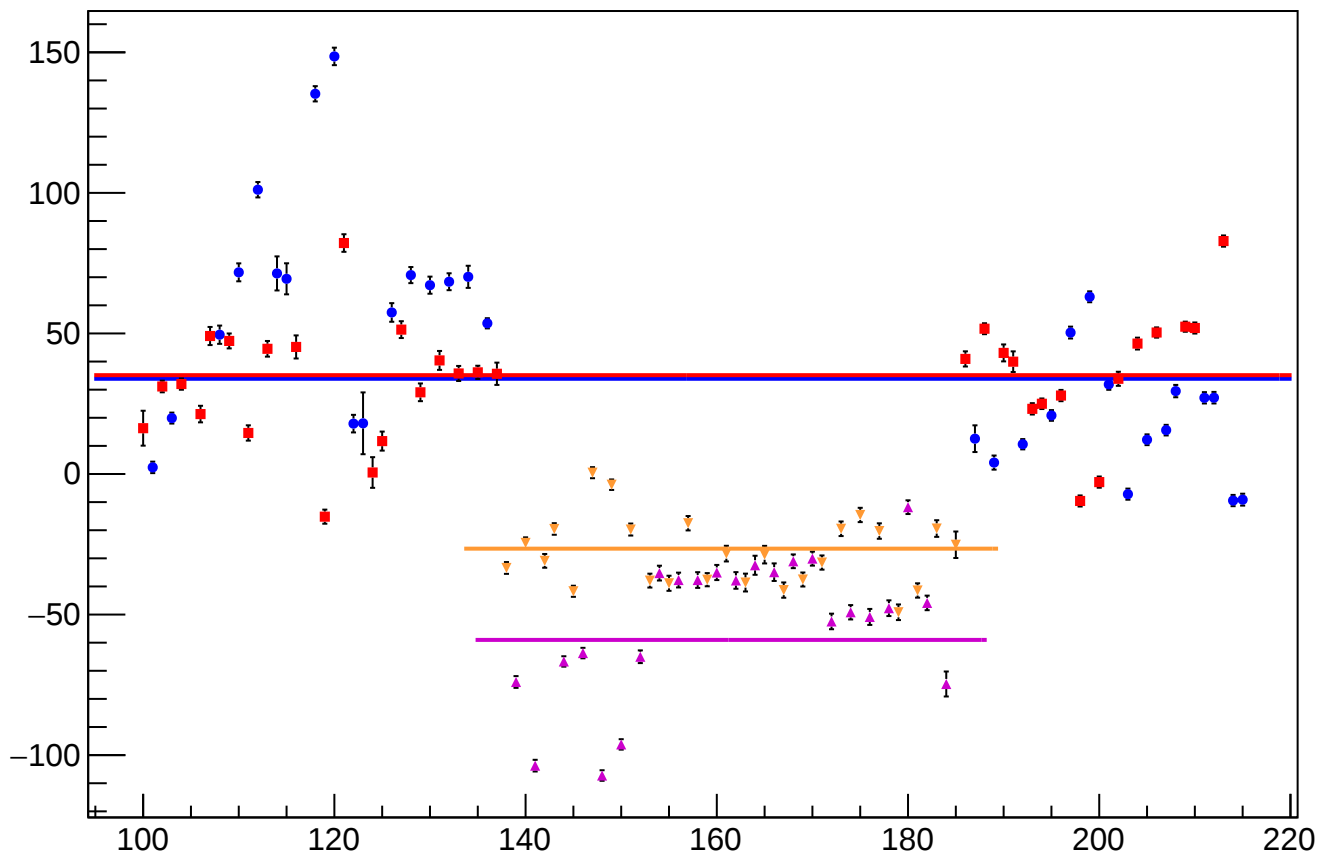
Right: 1657.411 $\pm$ 0.200 χ^2 /NDF: 461338.0/65

In: 1535.819 $\pm$ 0.186 χ^2 /NDF: 1009331.9/54

Out: 1520.800 $\pm$ 0.181 χ^2 /NDF: 892460.2/58

All: 1528.124 $\pm$ 0.130 χ^2 /NDF: 1905144.3/11

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 33.874 ± 0.425 χ^2/NDF : 6797.9/31

Left Out: -26.554 ± 0.488 χ^2/NDF : 717.5/24

Right Out: 35.158 ± 0.422 χ^2/NDF : 2780.5/33

Left In: -59.014 ± 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 ± 0.351 χ^2/NDF : 5632.2/47

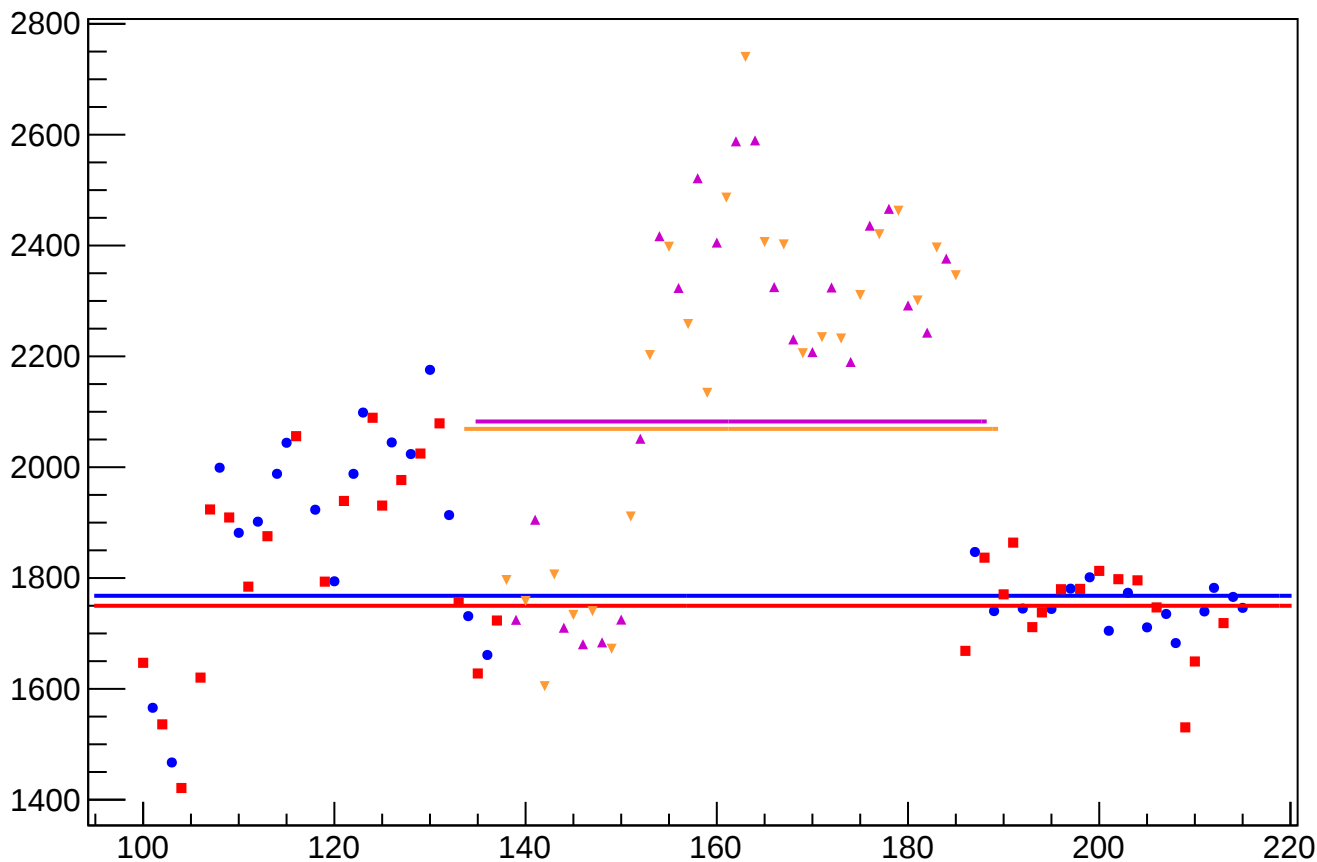
Right: 34.521 ± 0.299 χ^2/NDF : 9582.9/65

In: -4.506 ± 0.326 χ^2/NDF : 29323.9/54

Out: 8.754 ± 0.319 χ^2/NDF : 12652.7/58

All: 2.256 ± 0.228 χ^2/NDF : 42822.7/113

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1767.965 ± 0.300 $\chi^2/\text{NDF}: 198554.8/31$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1749.959 ± 0.298 $\chi^2/\text{NDF}: 228094.3/33$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

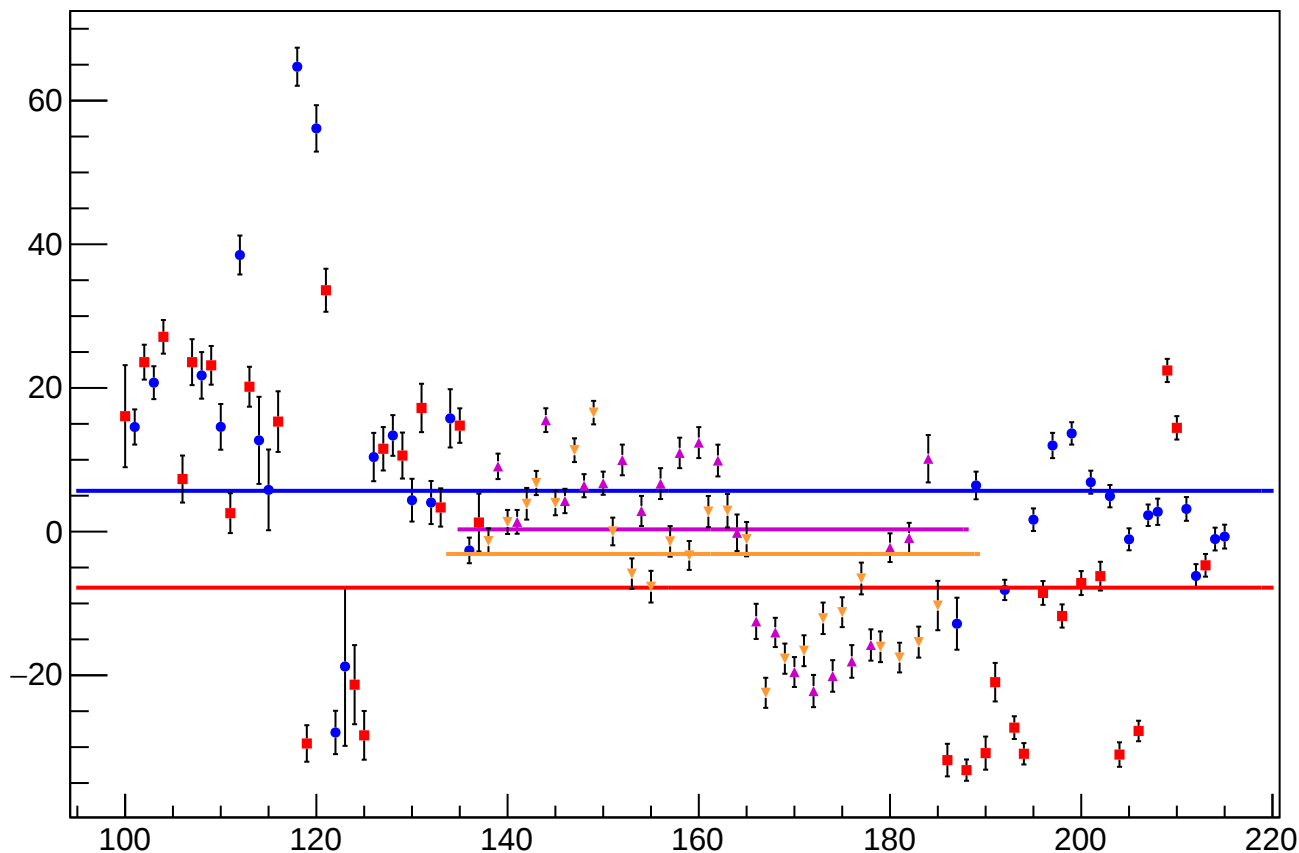
Right: 1758.897 ± 0.212 $\chi^2/\text{NDF}: 428457.6/65$

In: 1897.925 ± 0.230 $\chi^2/\text{NDF}: 1436584.7/54$

Out: 1886.526 ± 0.226 $\chi^2/\text{NDF}: 1516946.0/58$

All: 1892.112 ± 0.161 $\chi^2/\text{NDF}: 2954781.4/111$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 5.678 $\pm$ 0.368 χ^2/NDF : 1425.2/31

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF : 643.7/24

Right Out: -7.801 $\pm$ 0.371 χ^2/NDF : 3193.4/33

Left In: 0.312 $\pm$ 0.421 χ^2/NDF : 736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

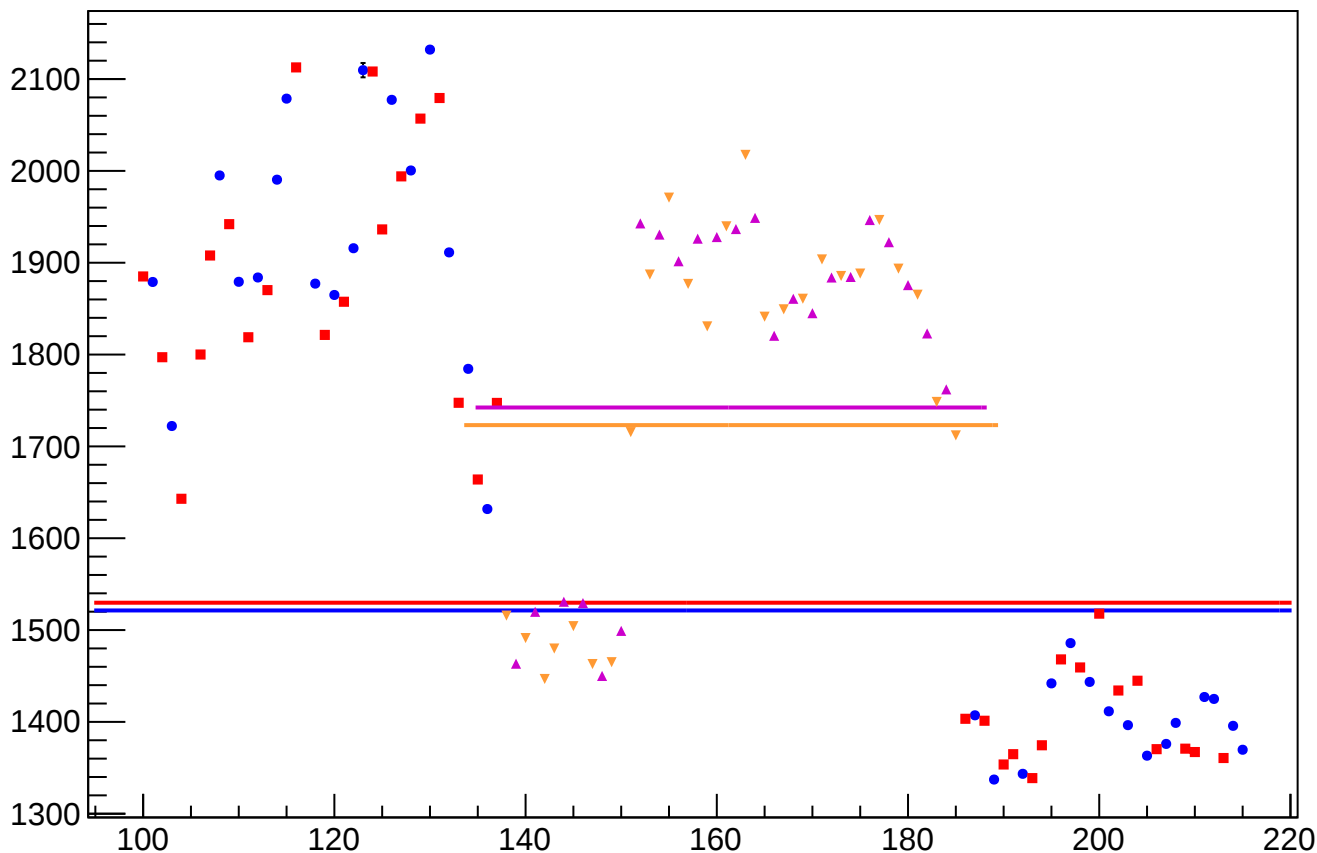
Right: -1.007 $\pm$ 0.261 χ^2/NDF : 5282.8/65

In: 3.352 $\pm$ 0.277 χ^2/NDF : 2253.7/54

Out: -5.655 $\pm$ 0.273 χ^2/NDF : 3910.1/58

All: -1.213 $\pm$ 0.195 χ^2/NDF : 6698.8/113

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1521.350 $\pm$ 0.260 χ^2/NDF : 714726.1/31

Left Out: 1723.168 $\pm$ 0.286 χ^2/NDF : 477441.1/24

Right Out: 1529.777 $\pm$ 0.263 χ^2/NDF : 688249.2/33

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

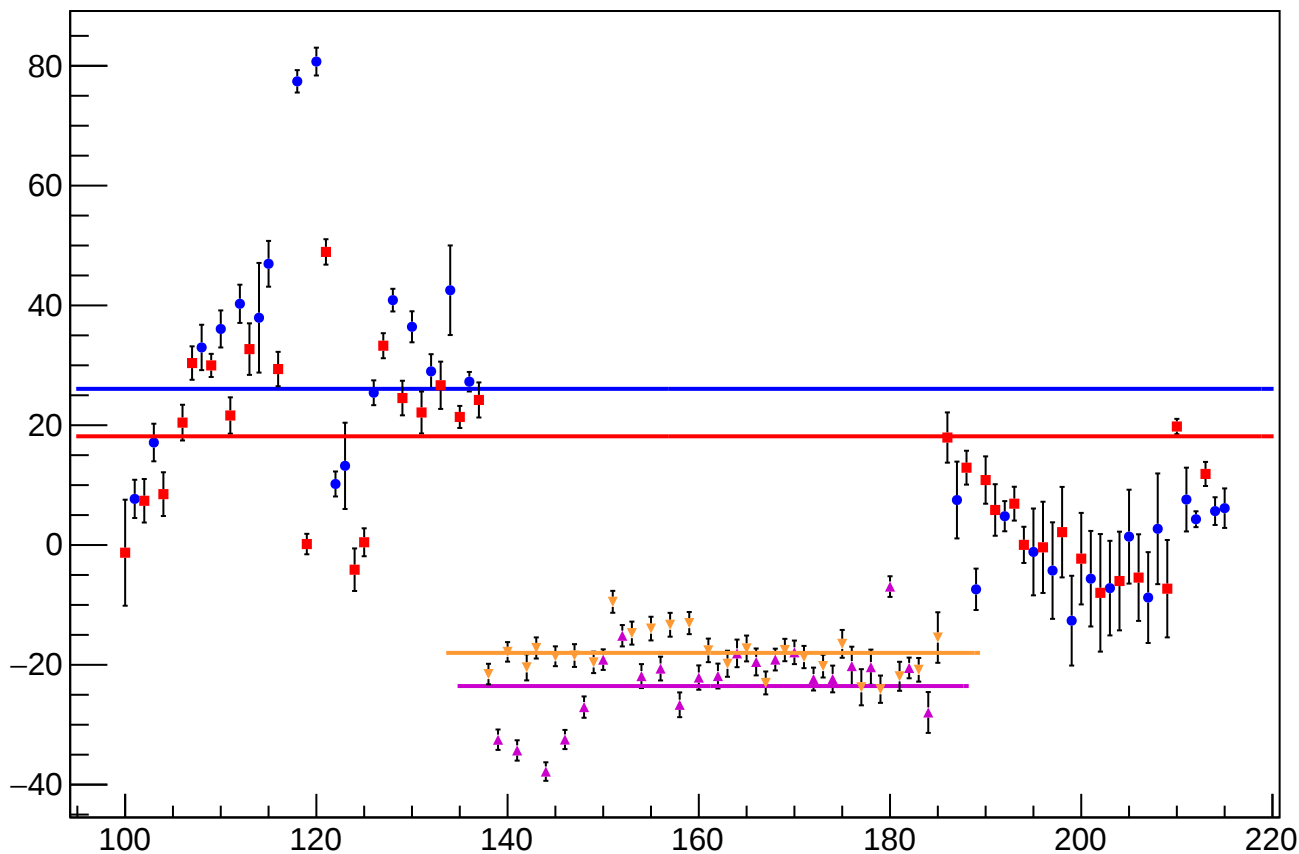
Right: 1525.530 $\pm$ 0.185 χ^2/NDF : 1403494.5/65

In: 1617.153 $\pm$ 0.196 χ^2/NDF : 1462678.5/54

Out: 1618.276 $\pm$ 0.193 χ^2/NDF : 1413964.5/58

All: 1617.722 $\pm$ 0.138 χ^2/NDF : 2876659.6/11

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 26.073 $\pm$ 0.518 χ^2/NDF : 2255.2/31

Left Out: -18.007 $\pm$ 0.397 χ^2/NDF : 73.8/24

Right Out: 18.148 $\pm$ 0.488 χ^2/NDF : 726.6/33

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

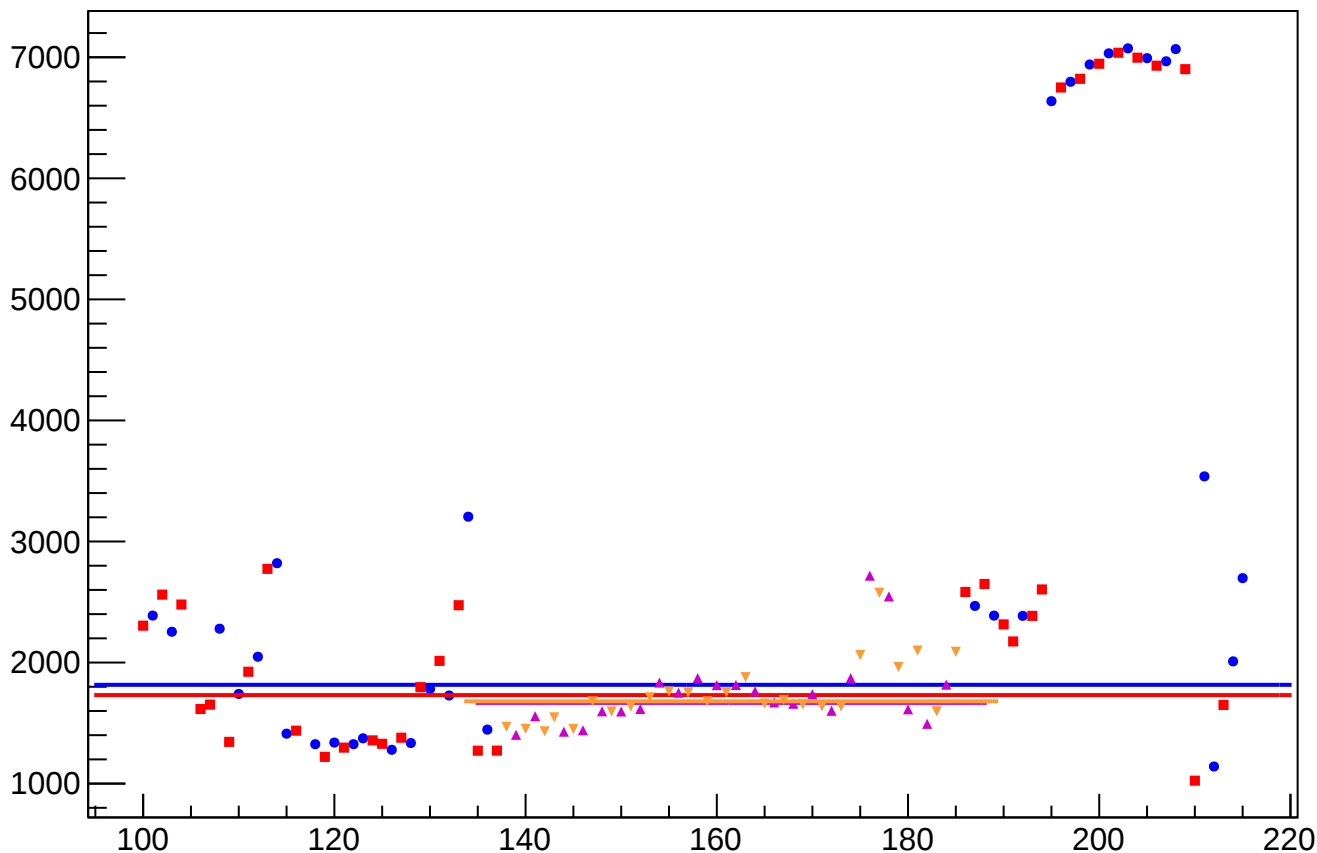
Right: 21.878 $\pm$ 0.355 χ^2/NDF : 3106.0/65

In: -4.667 $\pm$ 0.319 χ^2/NDF : 8293.8/54

Out: -3.628 $\pm$ 0.308 χ^2/NDF : 4104.2/58

All: -4.129 $\pm$ 0.222 χ^2/NDF : 12403.5/113

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1816.034+/-0.366 χ^2/NDF : 8802868.3/31

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

Right Out: 1731.203+/-0.345 χ^2/NDF : 8288213.0/33

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

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

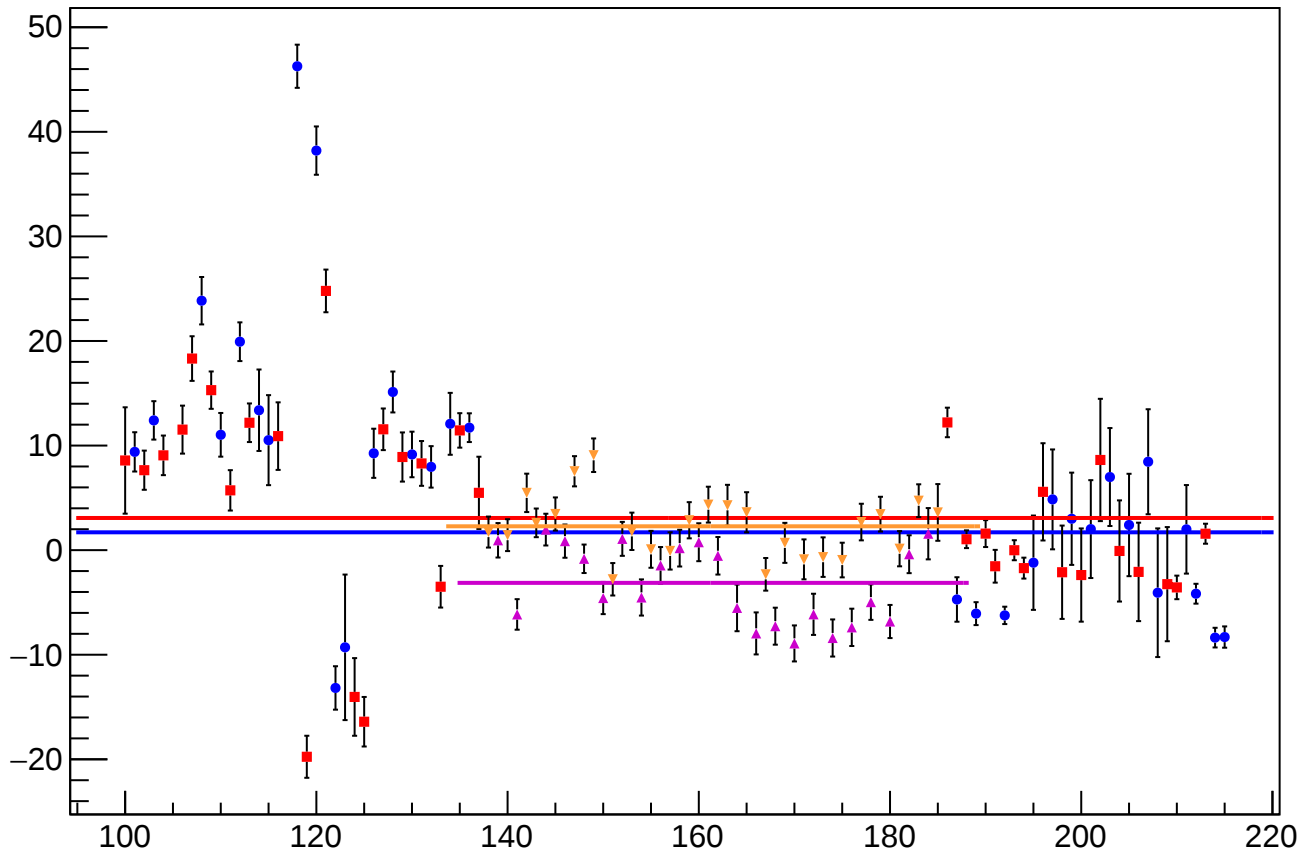
Right: 1771.132+/-0.251 χ^2/NDF : 17119510.1/65

In: 1723.588+/-0.226 χ^2/NDF : 9556812.2/54

Out: 1700.253+/-0.218 χ^2/NDF : 8824357.4/58

All: 1711.495+/-0.157 χ^2/NDF : 18386705.4/117

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 1.705 $\pm$ 0.320 χ^2/NDF : 1596.1/31

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.076 $\pm$ 0.298 χ^2/NDF : 694.3/33

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

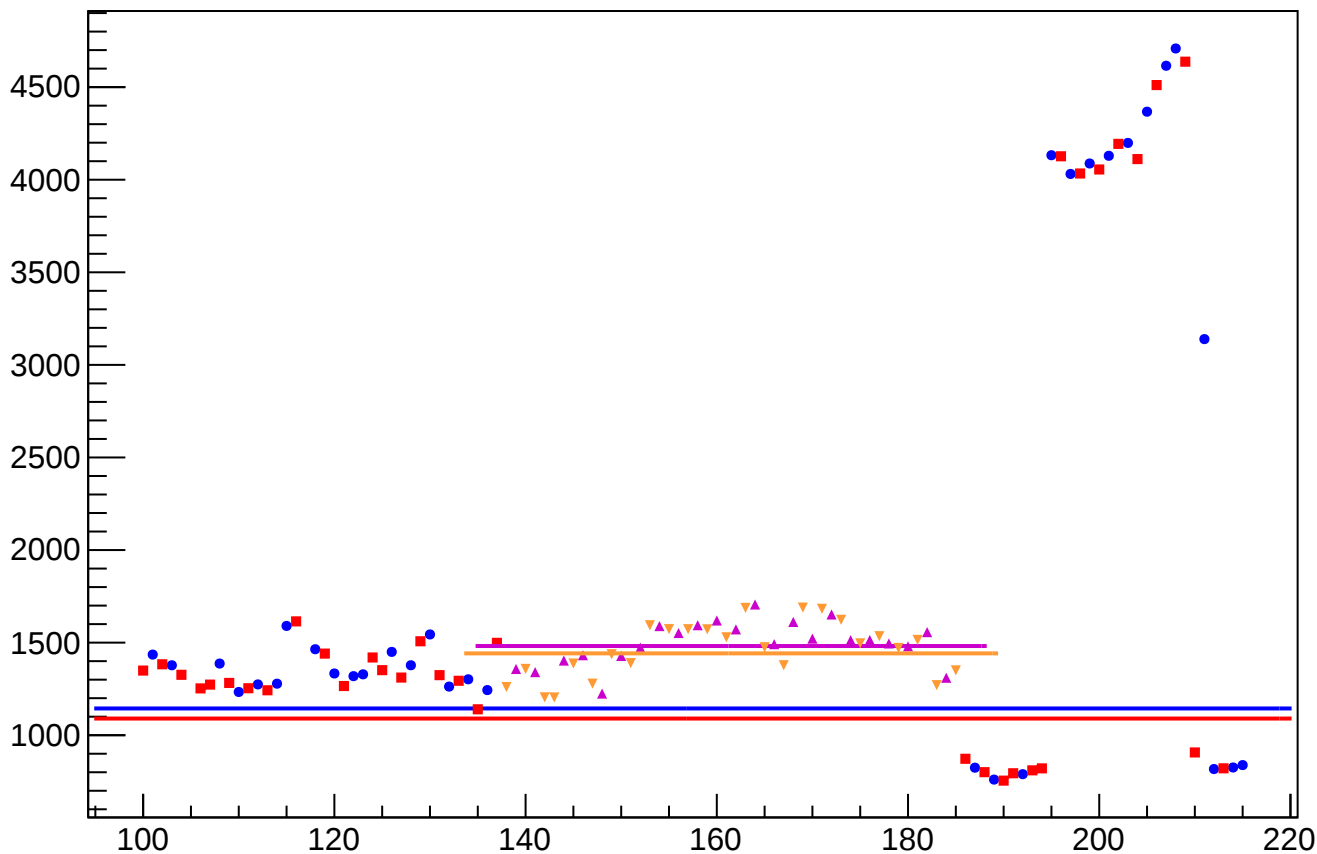
Right: 2.440 $\pm$ 0.218 χ^2/NDF : 2300.2/65

In: -0.446 $\pm$ 0.239 χ^2/NDF : 1800.8/54

Out: 2.728 $\pm$ 0.224 χ^2/NDF : 773.0/58

All: 1.243 $\pm$ 0.163 χ^2/NDF : 2668.0/113

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1144.488 ± 0.226 $\chi^2/\text{NDF}: 8775691.6/31$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1090.018 ± 0.211 $\chi^2/\text{NDF}: 7360506.9/33$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

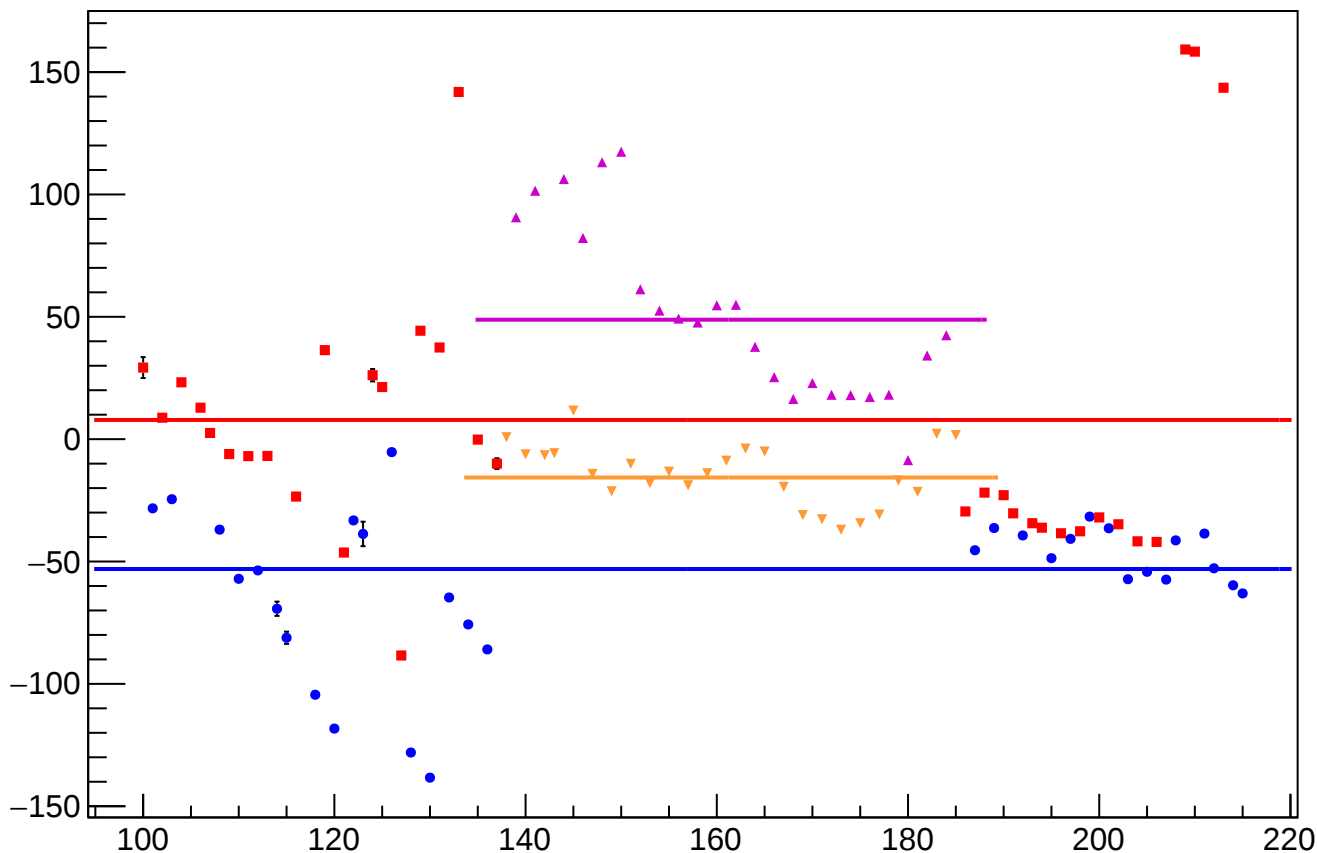
Right: 1115.308 ± 0.154 $\chi^2/\text{NDF}: 16167193.6/65$

In: 1294.554 ± 0.169 $\chi^2/\text{NDF}: 9970924.5/54$

Out: 1243.896 ± 0.158 $\chi^2/\text{NDF}: 8949601.7/58$

All: 1267.591 ± 0.115 $\chi^2/\text{NDF}: 18968518.4/110$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.064 $\pm$ 0.171 χ^2/NDF : 17910.9/31

Left Out: -15.666 $\pm$ 0.212 χ^2/NDF : 3518.1/24

Right Out: 7.847 $\pm$ 0.174 χ^2/NDF : 171886.8/33

Left In: 48.812 $\pm$ 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 $\pm$ 0.152 χ^2/NDF : 73443.2/47

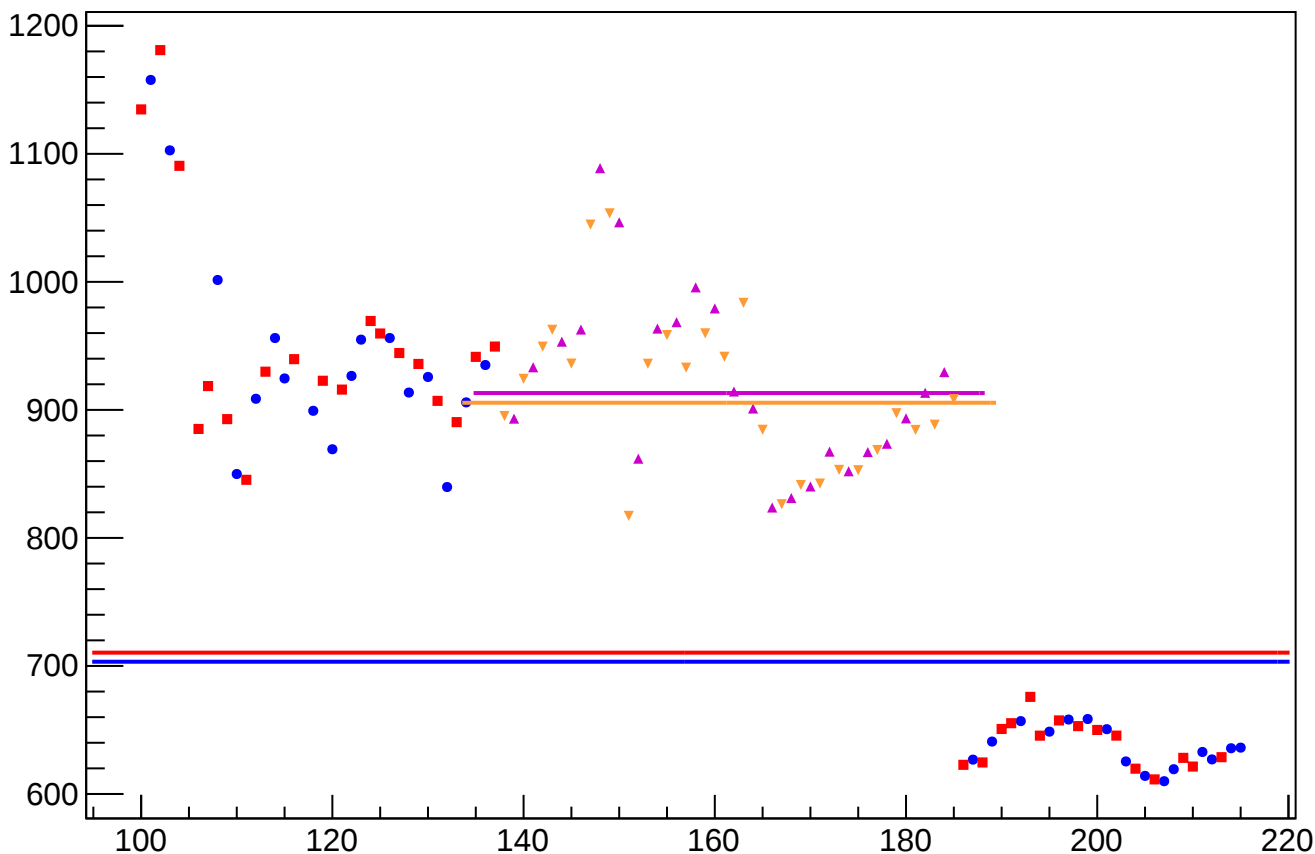
Right: -23.013 $\pm$ 0.122 χ^2/NDF : 252128.2/65

In: -14.566 $\pm$ 0.135 χ^2/NDF : 176728.5/54

Out: -1.621 $\pm$ 0.134 χ^2/NDF : 182786.8/58

All: -8.048 $\pm$ 0.095 χ^2/NDF : 364133.9/113

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 703.301 ± 0.121 $\chi^2/\text{NDF}: 1183477.1/31$

Left Out: 905.578 ± 0.150 $\chi^2/\text{NDF}: 162073.5/24$

Right Out: 710.395 ± 0.123 $\chi^2/\text{NDF}: 1216138.7/33$

Left In: 913.165 ± 0.155 $\chi^2/\text{NDF}: 174438.8/22$

Left: 909.225 ± 0.108 $\chi^2/\text{NDF}: 337749.0/47$

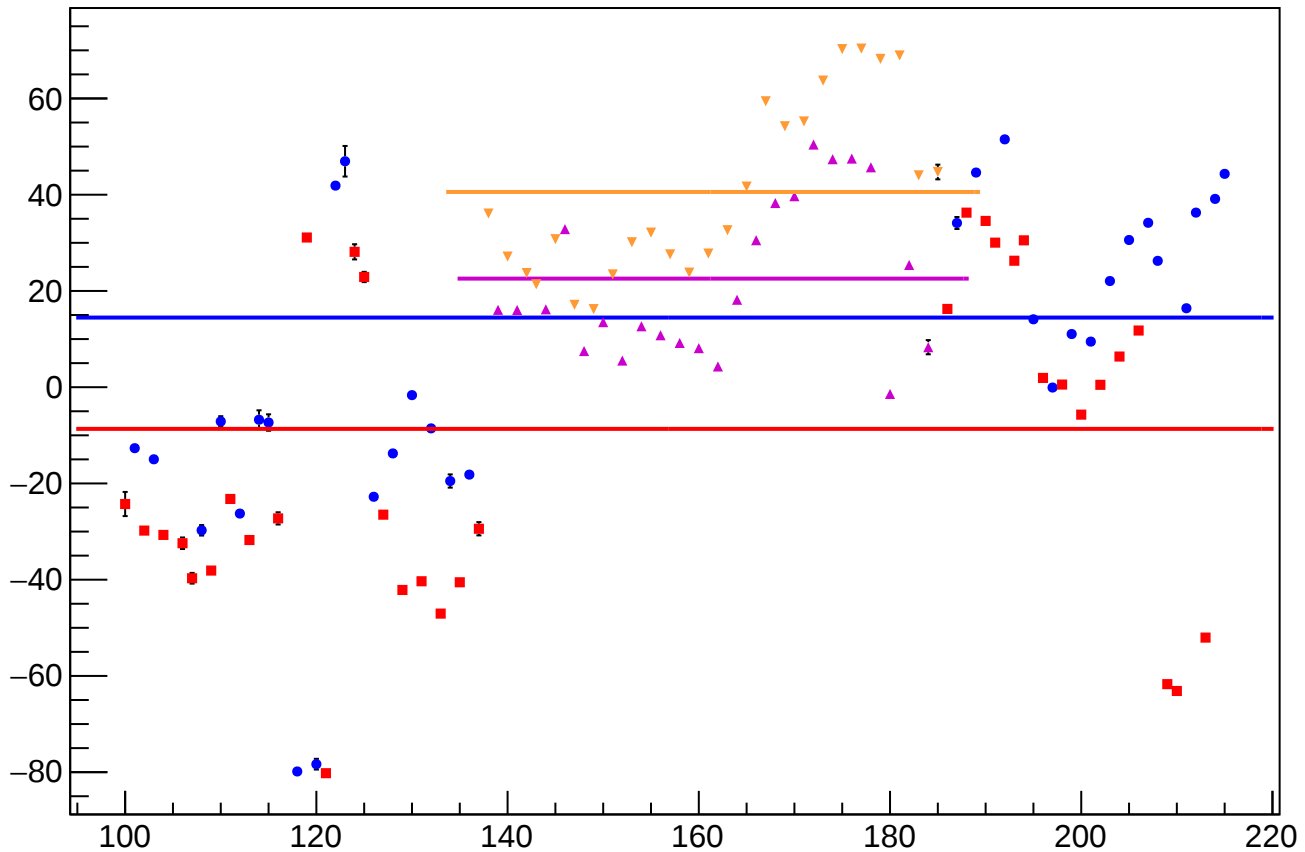
Right: 706.801 ± 0.086 $\chi^2/\text{NDF}: 2401306.6/65$

In: 782.606 ± 0.096 $\chi^2/\text{NDF}: 2491430.6/54$

Out: 788.988 ± 0.095 $\chi^2/\text{NDF}: 2395530.7/58$

All: 785.819 ± 0.067 $\chi^2/\text{NDF}: 4889206.4/113$

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 14.469+/-0.128 χ^2/NDF : 48651.1/31

Left Out: 40.573+/-0.168 χ^2/NDF :12079.0/24

Right Out: -8.660+/-0.128 χ^2/NDF : 68136.5/33

Left In: 22.565+/-0.175 χ^2/NDF :8167.7/22

Left: 31.959+/-0.121 χ^2/NDF : 25752.7/47

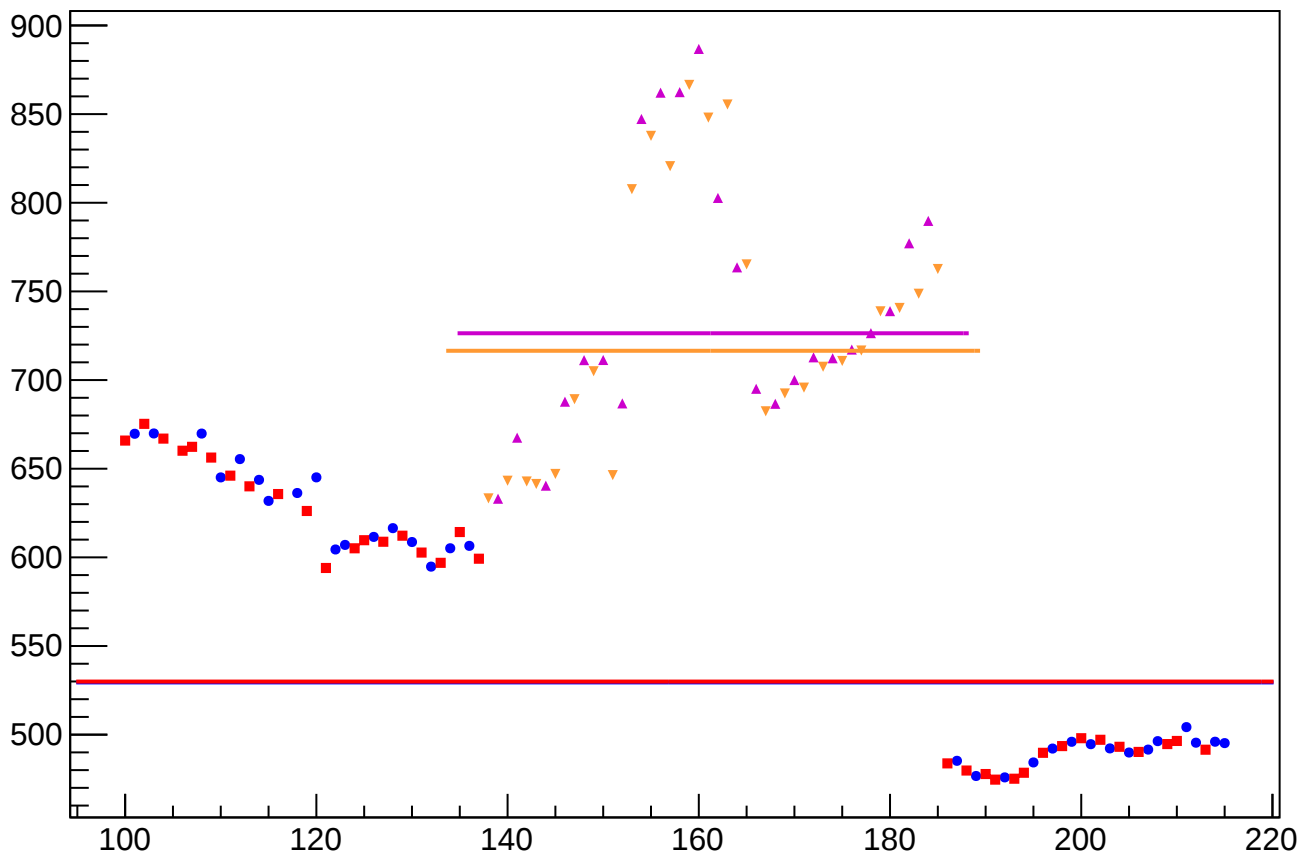
Right: 2.952+/-0.090 χ^2/NDF : 133124.0/65

In: 17.276+/-0.103 χ^2/NDF :58212.5/54

Out: 9.484+/-0.102 χ^2/NDF :134549.0/58

All: 13.330+/-0.073 χ^2/NDF : 195647.9/113

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 529.465 $\pm$ 0.090 χ^2 /NDF: 499181.3/31

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF: 342740.2/24

Right Out: 529.946 $\pm$ 0.091 χ^2 /NDF: 535545.4/33

Left In: 726.390 $\pm$ 0.124 χ^2 /NDF: 289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47

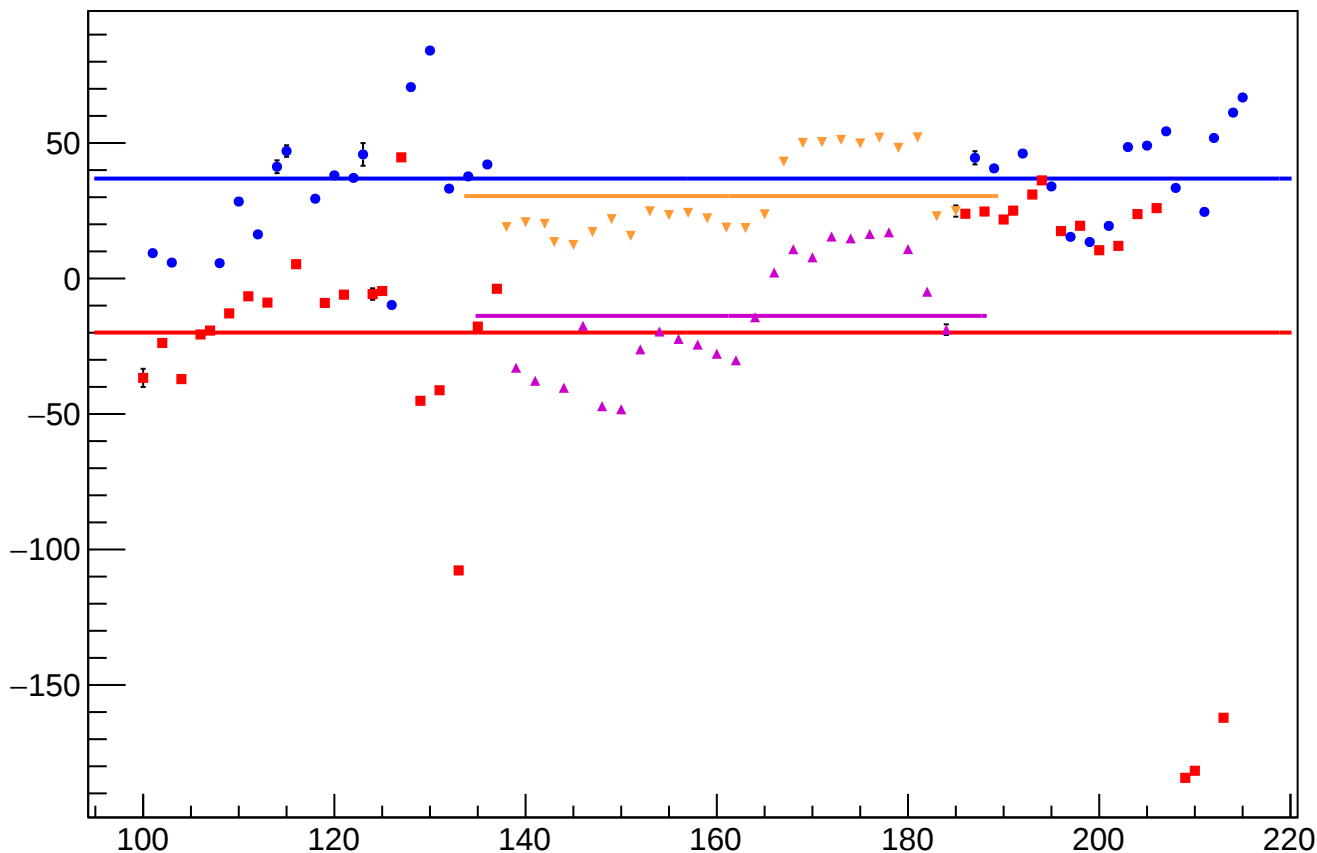
Right: 529.705 $\pm$ 0.064 χ^2 /NDF: 1034740.7/65

In: 597.742 $\pm$ 0.073 χ^2 /NDF: 2438115.1/54

Out: 598.705 $\pm$ 0.072 χ^2 /NDF: 2438793.2/58

All: 598.230 $\pm$ 0.051 χ^2 /NDF: 4876996.4/113

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 36.879 ± 0.208 $\chi^2/\text{NDF}: 9847.8/31$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -19.945 ± 0.207 $\chi^2/\text{NDF}: 89192.8/33$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

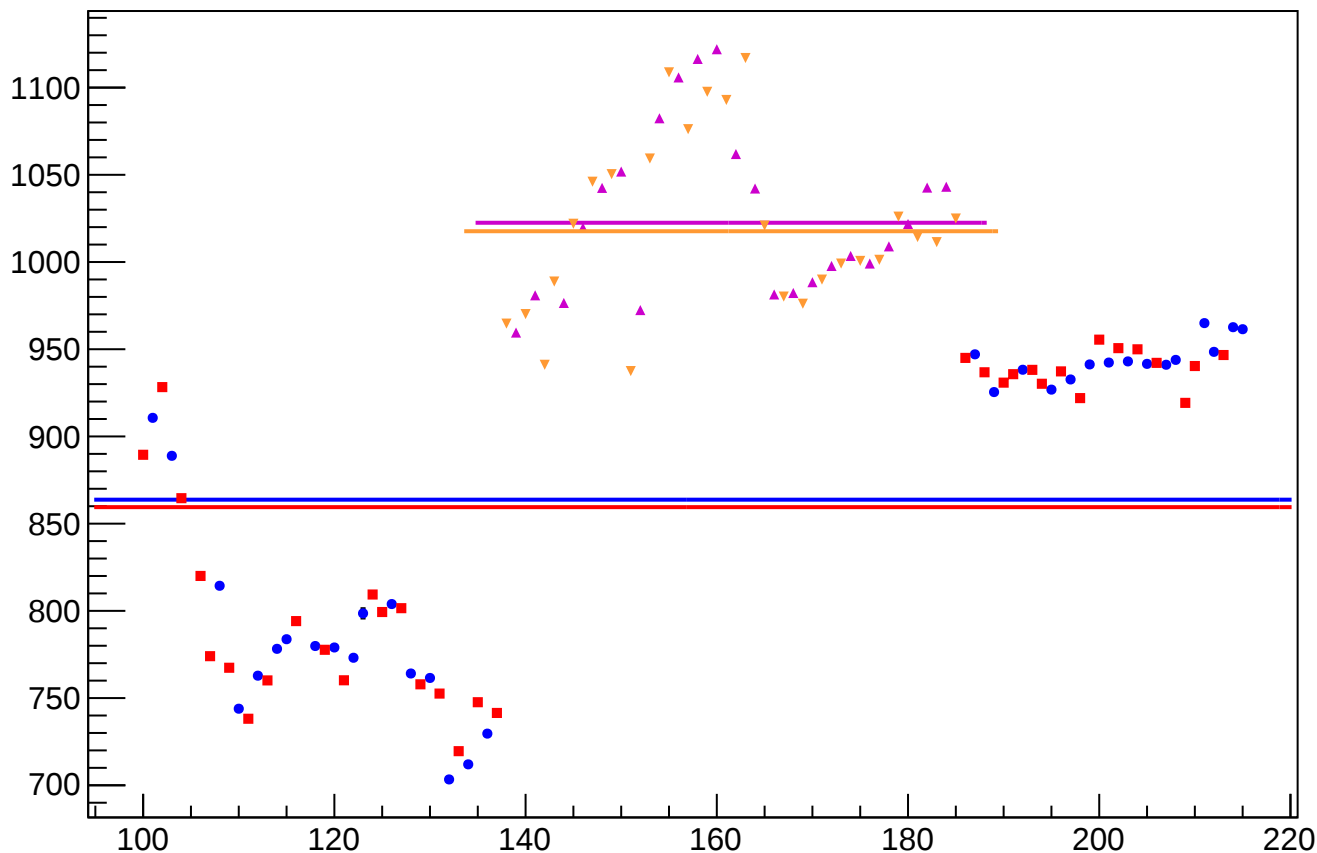
Right: 8.383 ± 0.147 $\chi^2/\text{NDF}: 136458.4/65$

In: 15.737 ± 0.159 $\chi^2/\text{NDF}: 42580.2/54$

Out: 1.853 ± 0.156 $\chi^2/\text{NDF}: 118514.1/58$

All: 8.680 ± 0.111 $\chi^2/\text{NDF}: 164979.9/113$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 863.747 $\pm$ 0.147 χ^2 /NDF: 391782.8/31

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 859.465 $\pm$ 0.147 χ^2 /NDF: 348269.7/33

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

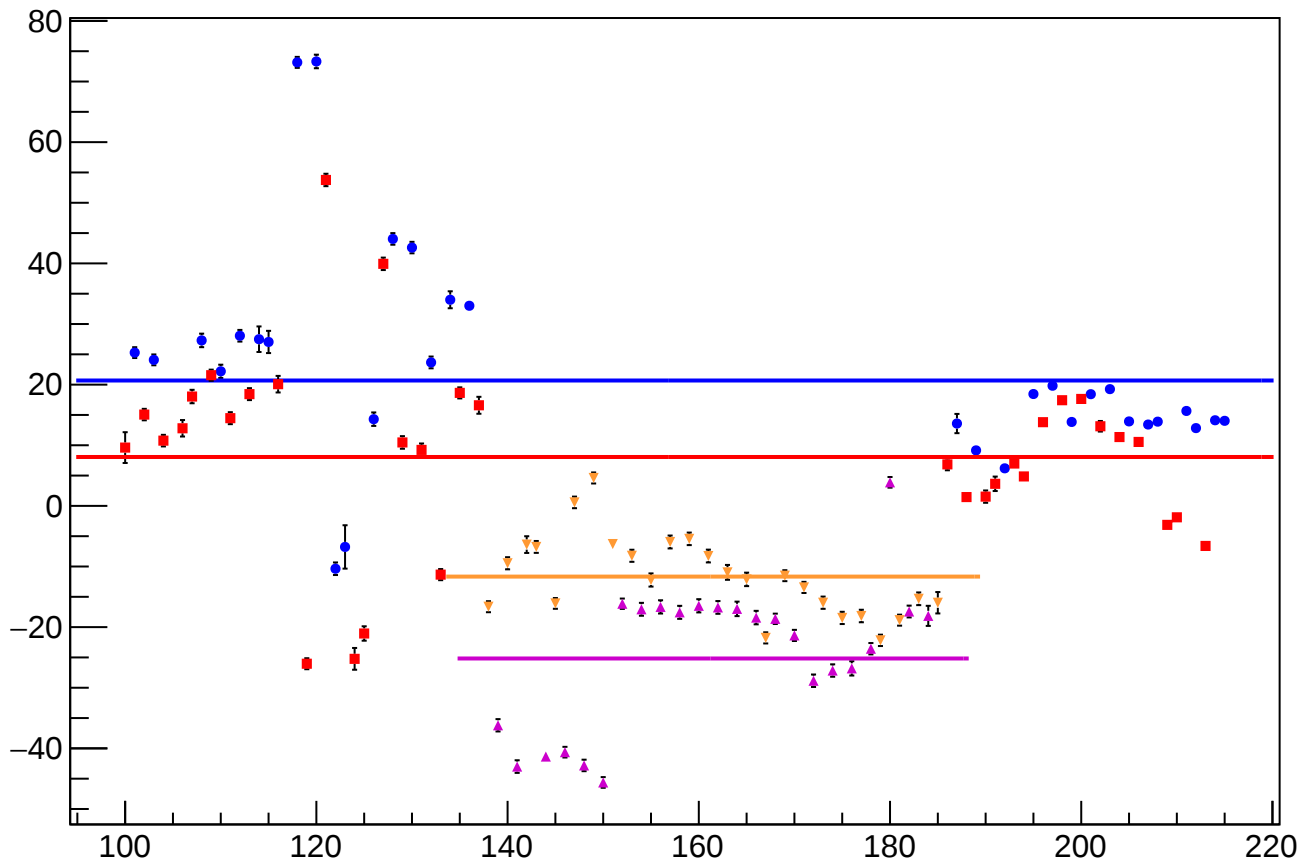
Right: 861.600 $\pm$ 0.104 χ^2 /NDF: 740477.3/65

In: 929.996 $\pm$ 0.112 χ^2 /NDF:947527.6/54

Out: 927.943 $\pm$ 0.110 χ^2 /NDF:935481.1/58

All: 928.953 $\pm$ 0.079 χ^2 /NDF: 1883178.4/113

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.683 $\pm$ 0.148 χ^2/NDF : 9821.9/31

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF : 1147.4/24

Right Out: 8.066 $\pm$ 0.147 χ^2/NDF : 8432.2/33

Left In: -25.174 $\pm$ 0.207 χ^2/NDF : 3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2/NDF : 7090.4/47

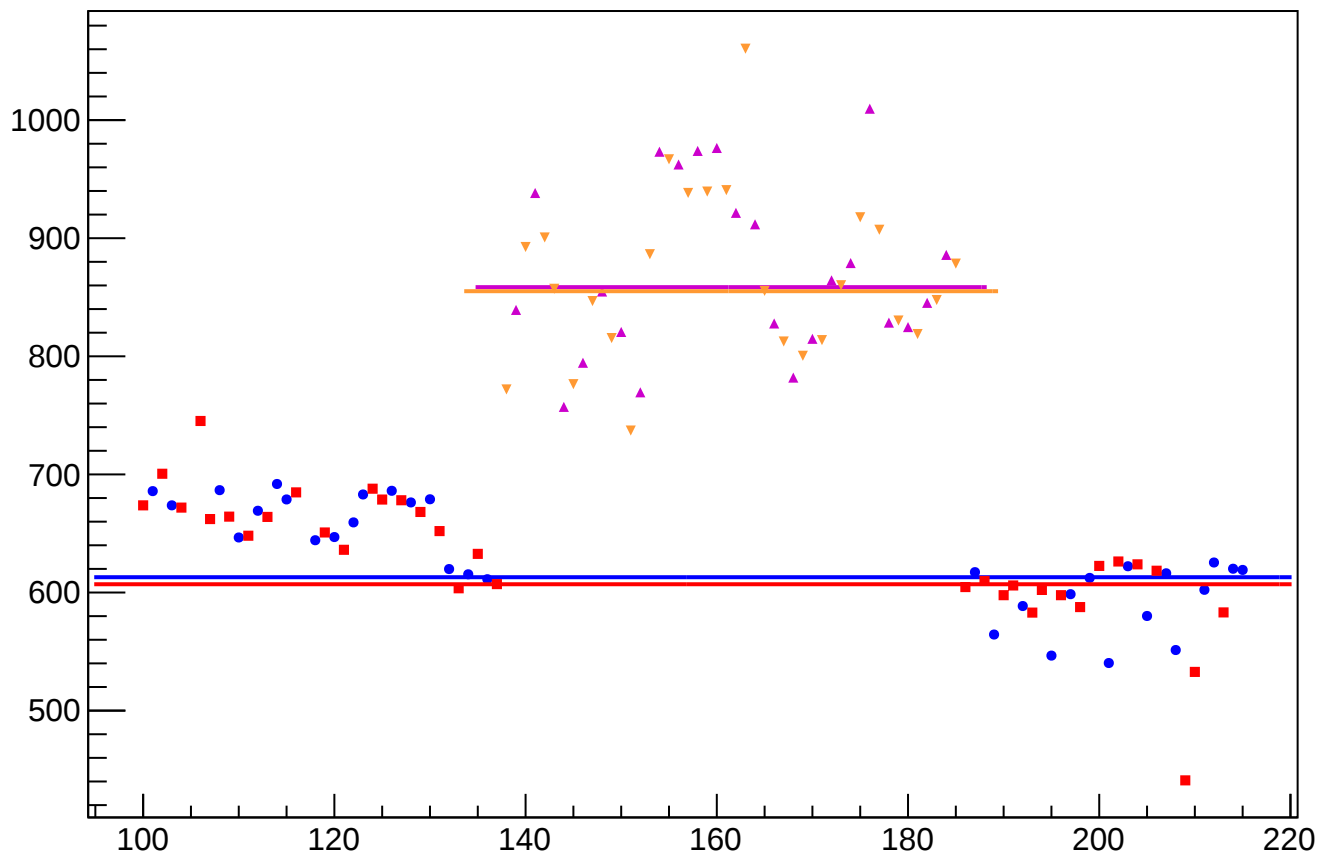
Right: 14.340 $\pm$ 0.104 χ^2/NDF : 21930.1/65

In: 5.272 $\pm$ 0.120 χ^2/NDF : 46033.5/54

Out: 1.174 $\pm$ 0.118 χ^2/NDF : 15893.8/58

All: 3.191 $\pm$ 0.084 χ^2/NDF : 62517.2/113

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.966 ± 0.104 χ^2/NDF : 165271.6/31

Left Out: 855.131 ± 0.142 χ^2/NDF : 233746.7/24

Right Out: 607.011 ± 0.104 χ^2/NDF : 362021.5/33

Left In: 858.563 ± 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 ± 0.102 χ^2/NDF : 473049.9/47

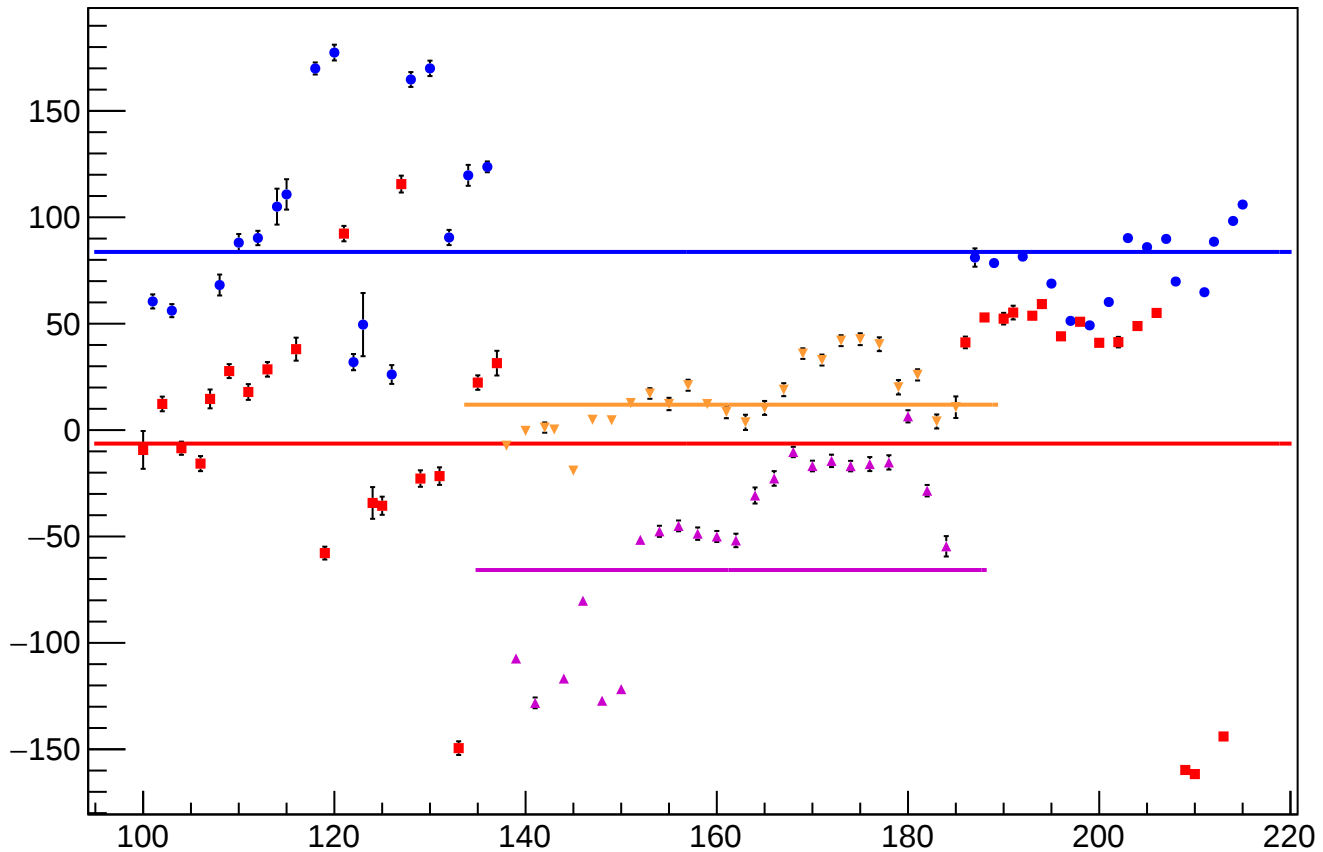
Right: 609.972 ± 0.074 χ^2/NDF : 528931.0/65

In: 695.504 ± 0.085 χ^2/NDF : 2266761.8/54

Out: 693.683 ± 0.084 χ^2/NDF : 2593037.4/58

All: 694.580 ± 0.060 χ^2/NDF : 4860032.2/113

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 83.729 ± 0.444 $\chi^2/\text{NDF}: 4708.6/31$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: -6.344 ± 0.437 $\chi^2/\text{NDF}: 38944.8/33$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

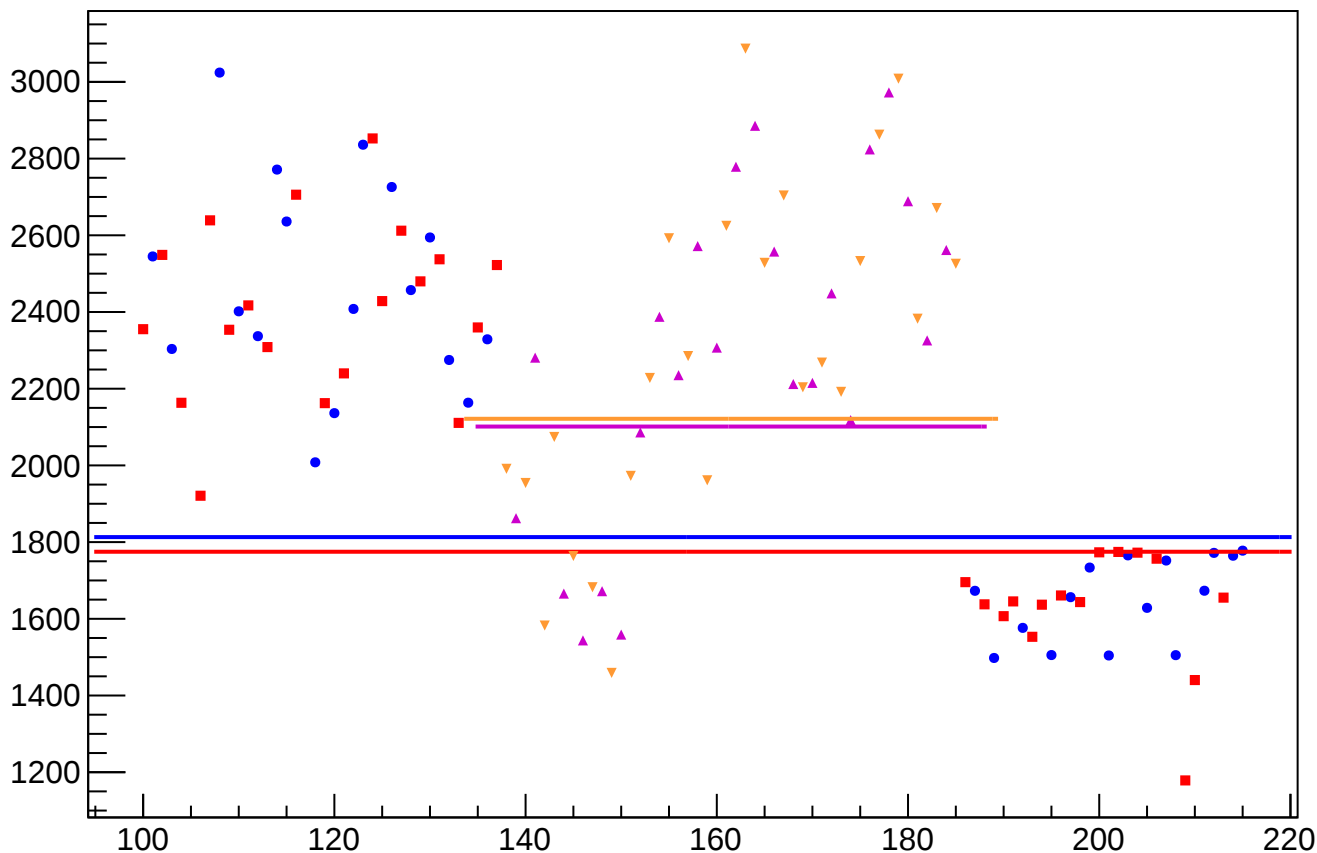
Right: 38.001 ± 0.311 $\chi^2/\text{NDF}: 64566.2/65$

In: 20.408 ± 0.337 $\chi^2/\text{NDF}: 60102.6/54$

Out: 1.479 ± 0.331 $\chi^2/\text{NDF}: 40670.3/58$

All: 10.763 ± 0.236 $\chi^2/\text{NDF}: 102381.2/113$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1813.075 ± 0.314 $\chi^2/\text{NDF}: 1181954.5/31$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1774.885 ± 0.309 $\chi^2/\text{NDF}: 1477433.2/33$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

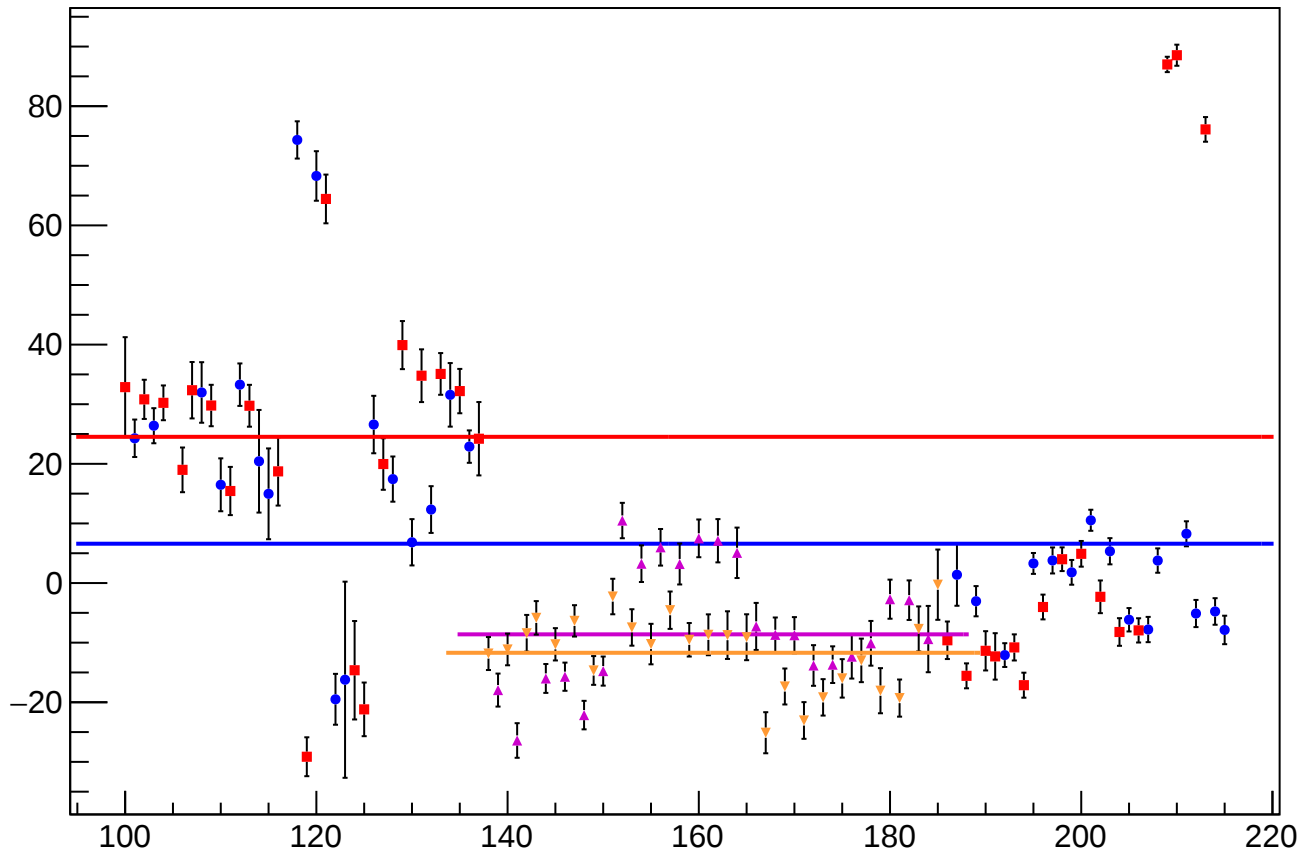
Right: 1793.687 ± 0.220 $\chi^2/\text{NDF}: 2666906.6/65$

In: 1935.178 ± 0.238 $\chi^2/\text{NDF}: 2899883.8/54$

Out: 1923.235 ± 0.234 $\chi^2/\text{NDF}: 3403827.1/58$

All: 1929.093 ± 0.167 $\chi^2/\text{NDF}: 6304991.2/11$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 6.598 ± 0.482 $\chi^2/\text{NDF}: 1280.4/31$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 24.530 ± 0.472 $\chi^2/\text{NDF}: 7105.2/33$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

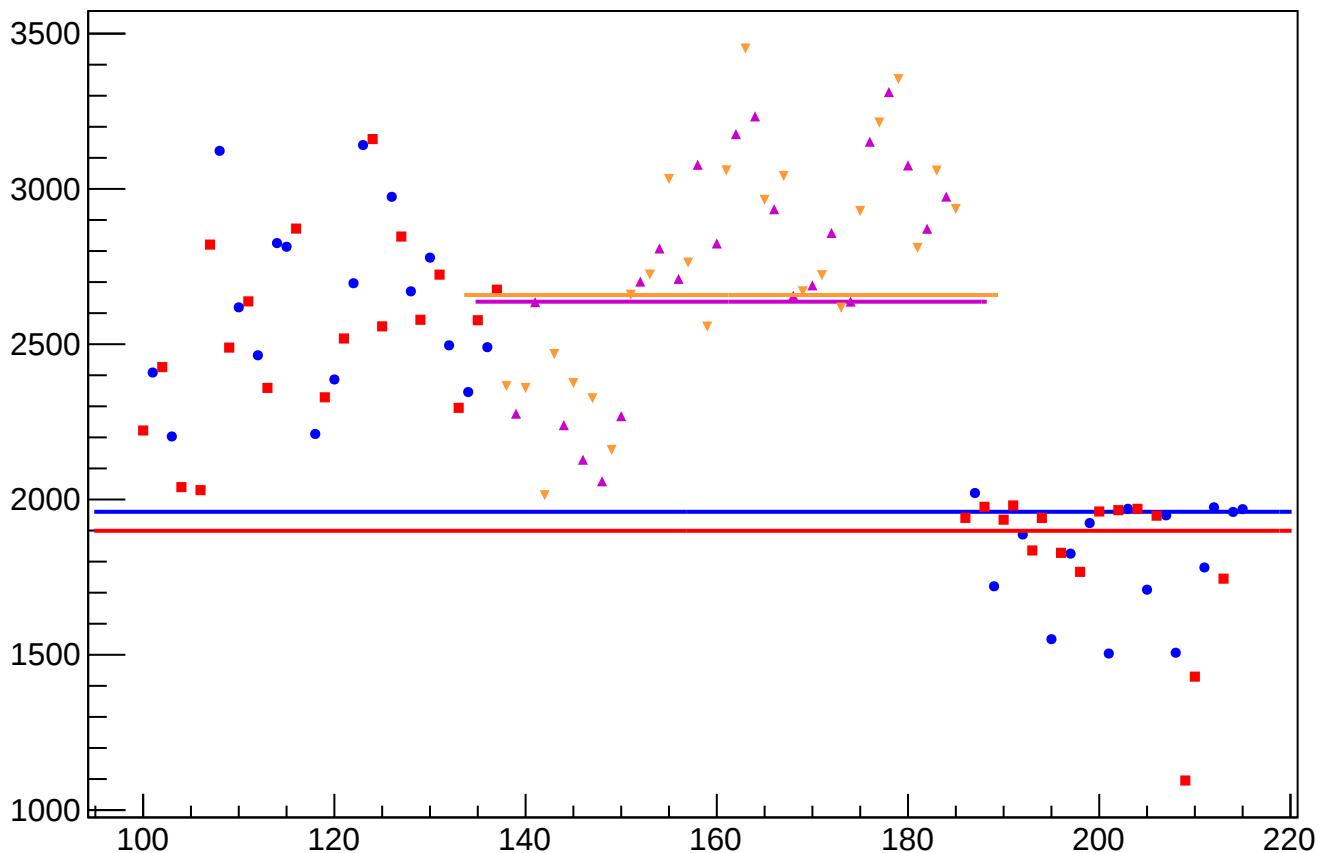
Right: 15.761 ± 0.337 $\chi^2/\text{NDF}: 9092.9/65$

In: 1.117 ± 0.385 $\chi^2/\text{NDF}: 1903.4/54$

Out: 11.401 ± 0.377 $\chi^2/\text{NDF}: 9329.7/58$

All: 6.379 ± 0.269 $\chi^2/\text{NDF}: 11597.4/113$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1960.434 $\pm$ 0.341 χ^2/NDF : 1181162.9/31

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 1899.269 $\pm$ 0.333 χ^2/NDF : 1823863.4/33

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

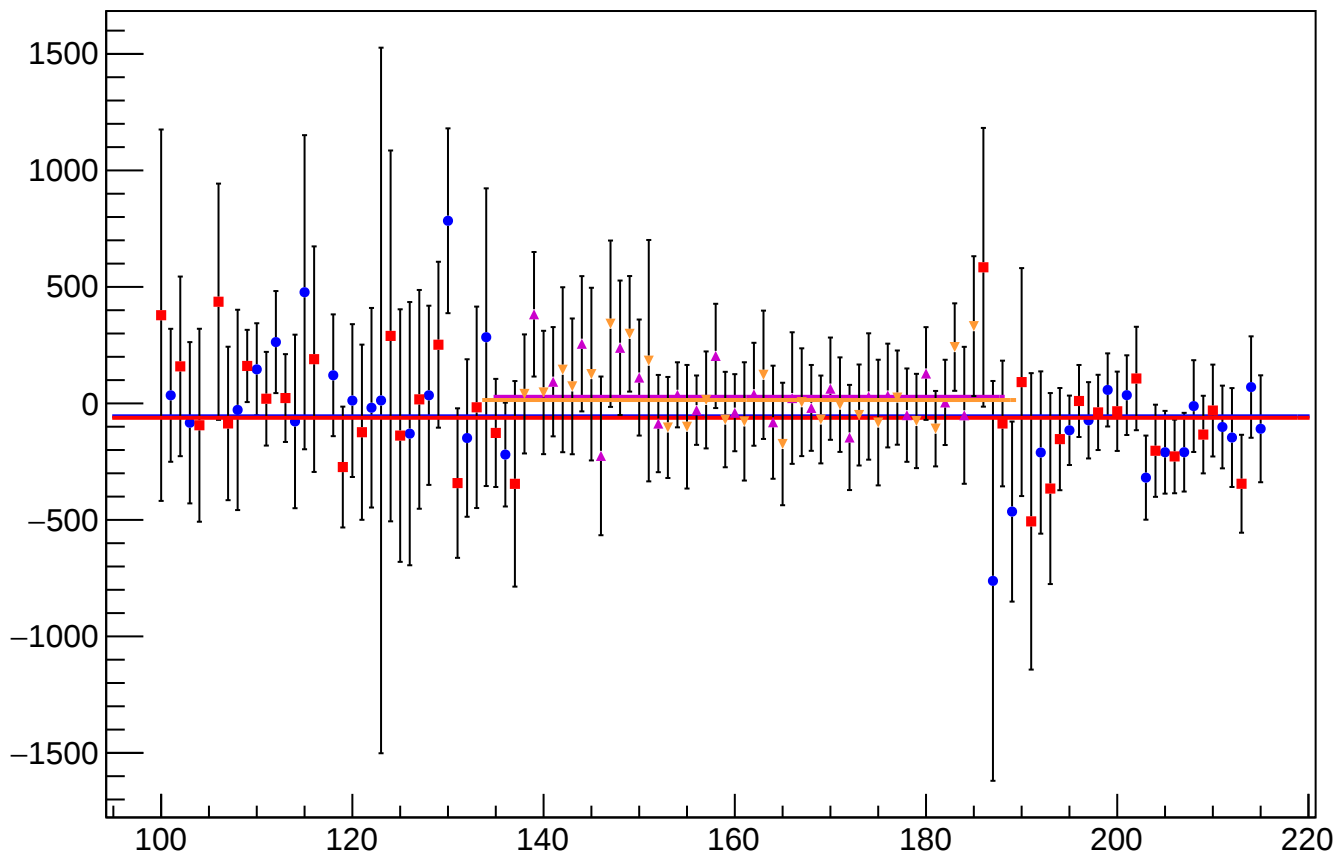
Right: 1929.180 $\pm$ 0.238 χ^2/NDF : 3021485.0/65

In: 2204.300 $\pm$ 0.273 χ^2/NDF : 3254312.4/54

Out: 2174.392 $\pm$ 0.266 χ^2/NDF : 4321096.7/58

All: 2188.996 $\pm$ 0.190 χ^2/NDF : 7581571.5/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.399 ± 42.644 $\chi^2/\text{NDF}: 17.2/31$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -61.770 ± 43.071 $\chi^2/\text{NDF}: 14.2/33$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

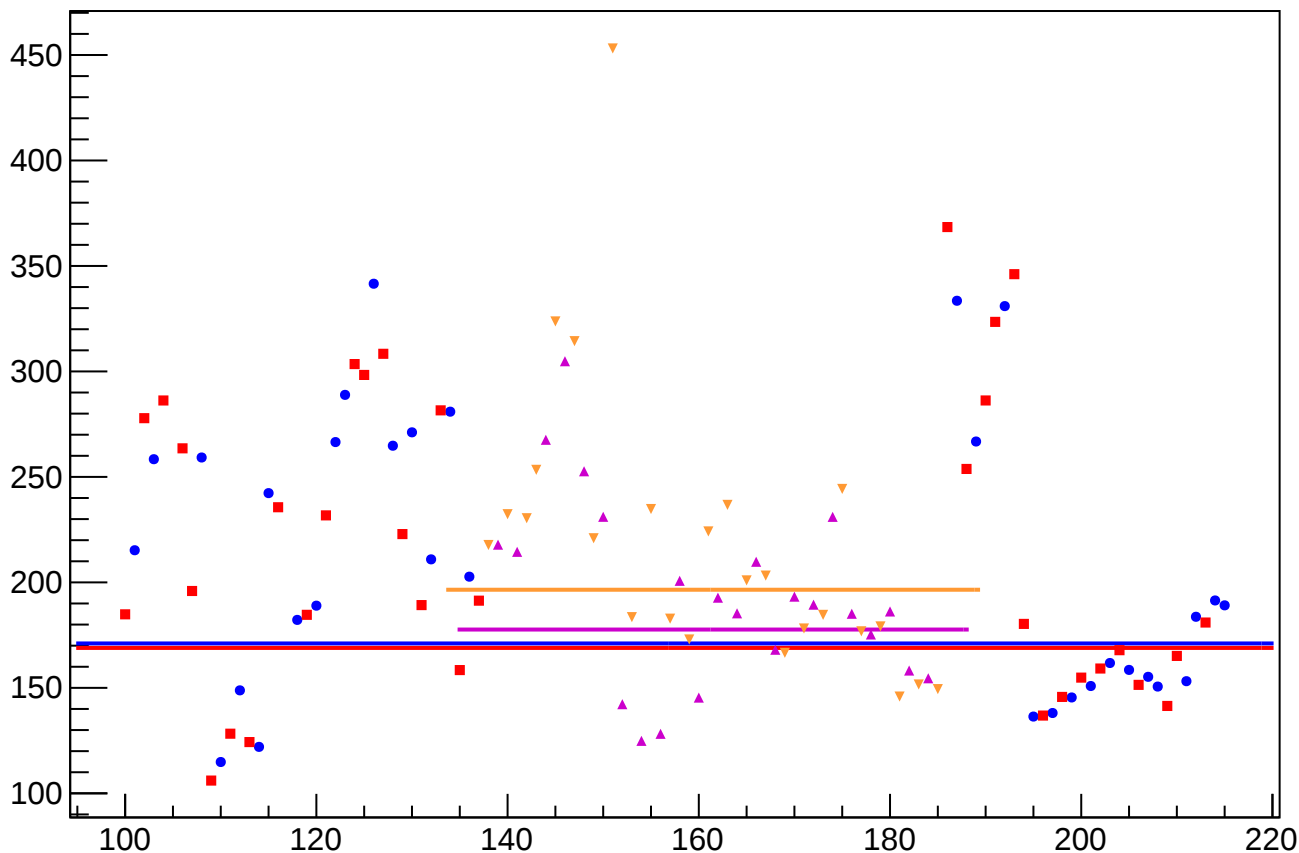
Right: -58.553 ± 30.304 $\chi^2/\text{NDF}: 31.5/65$

In: -15.457 ± 30.835 $\chi^2/\text{NDF}: 25.3/54$

Out: -27.369 ± 31.916 $\chi^2/\text{NDF}: 23.4/58$

All: -21.208 ± 22.176 $\chi^2/\text{NDF}: 48.9/113$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.050+/-0.030 χ^2/NDF : 2173338.2/31

Left Out: 196.514+/-0.034 χ^2/NDF :1789504.4/24

Right Out: 168.930+/-0.030 χ^2/NDF : 2838483.8/33

Left In: 177.643+/-0.032 χ^2/NDF :1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

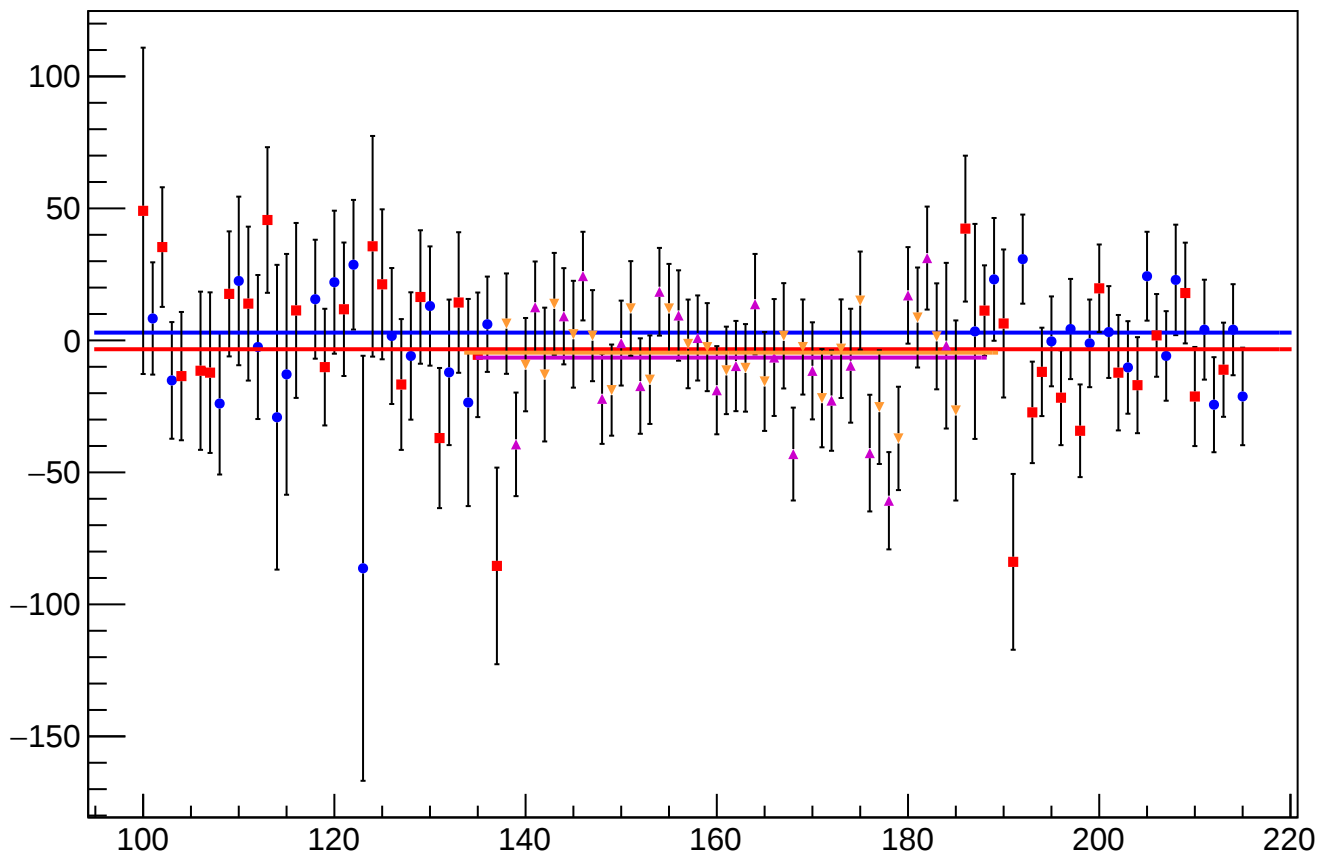
Right: 170.001+/-0.021 χ^2/NDF : 5014268.6/65

In: 174.196+/-0.022 χ^2/NDF :3826814.4/54

Out: 181.368+/-0.023 χ^2/NDF :4997872.7/58

All: 177.659+/-0.016 χ^2/NDF : 8876929.8/113

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.947 ± 3.836 $\chi^2/\text{NDF}: 17.8/31$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -3.351 ± 3.884 $\chi^2/\text{NDF}: 38.8/33$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

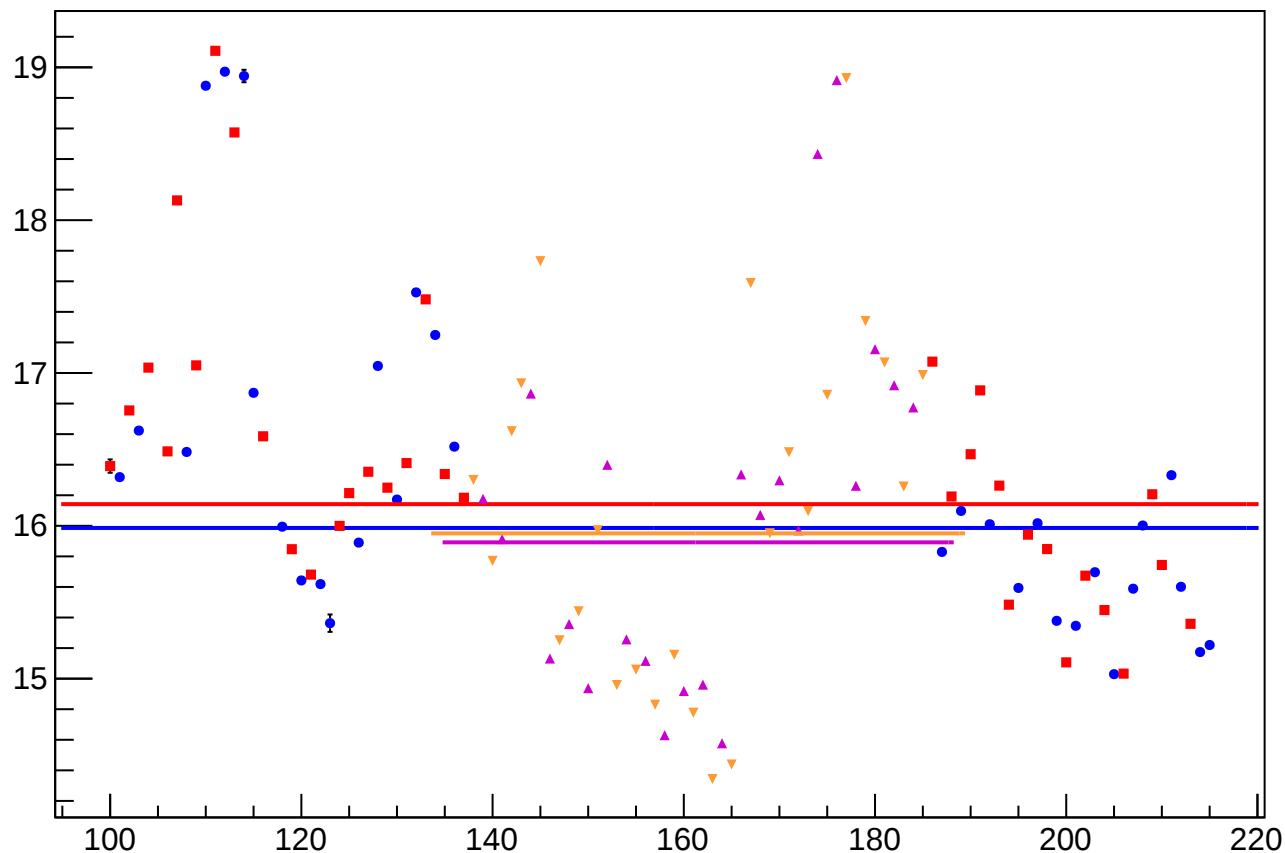
Right: -0.163 ± 2.729 $\chi^2/\text{NDF}: 58.0/65$

In: -1.800 ± 2.710 $\chi^2/\text{NDF}: 57.2/54$

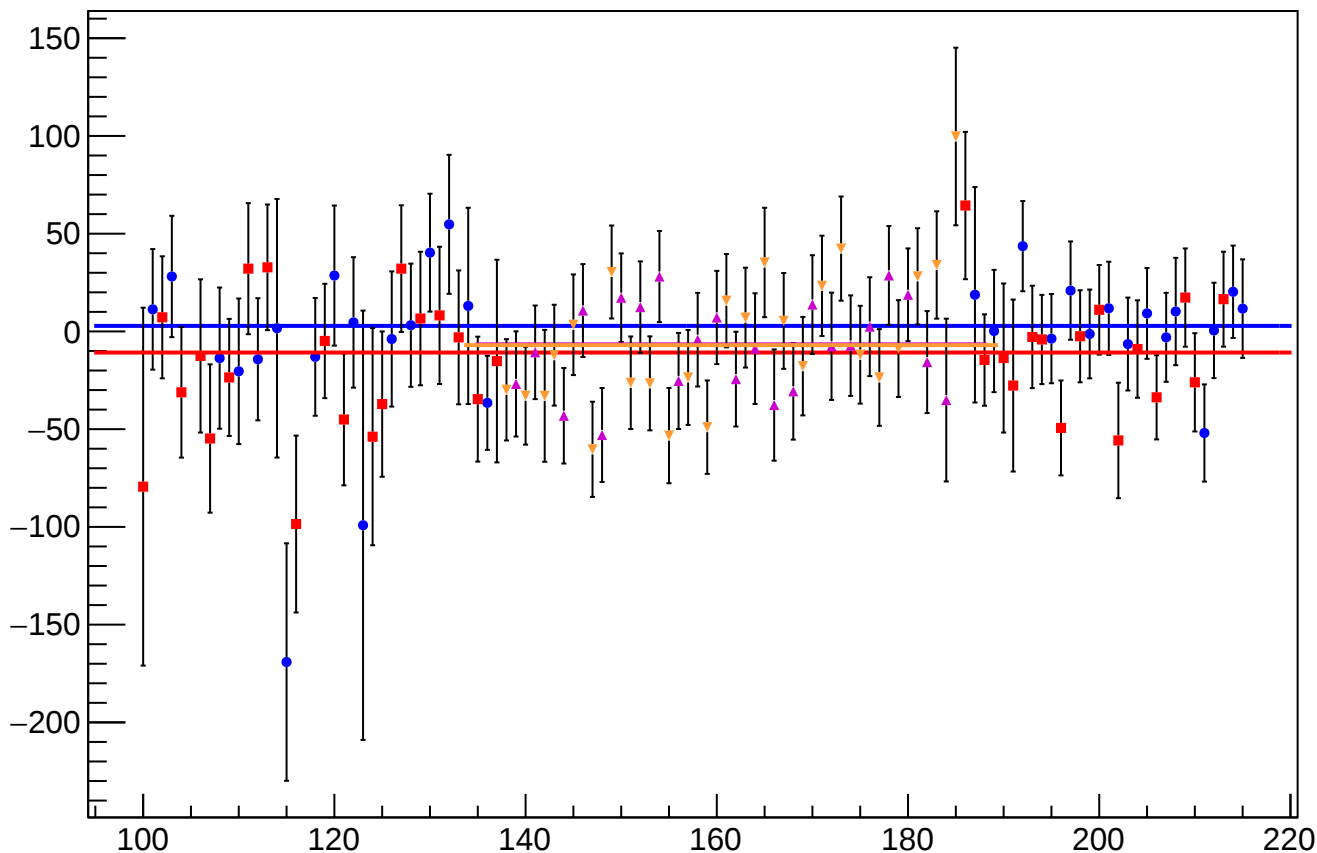
Out: -4.025 ± 2.690 $\chi^2/\text{NDF}: 50.9/58$

All: -2.921 ± 1.909 $\chi^2/\text{NDF}: 108.5/113$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.830 ± 5.143 $\chi^2/\text{NDF}: 27.6/31$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.806 ± 5.194 $\chi^2/\text{NDF}: 29.4/33$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

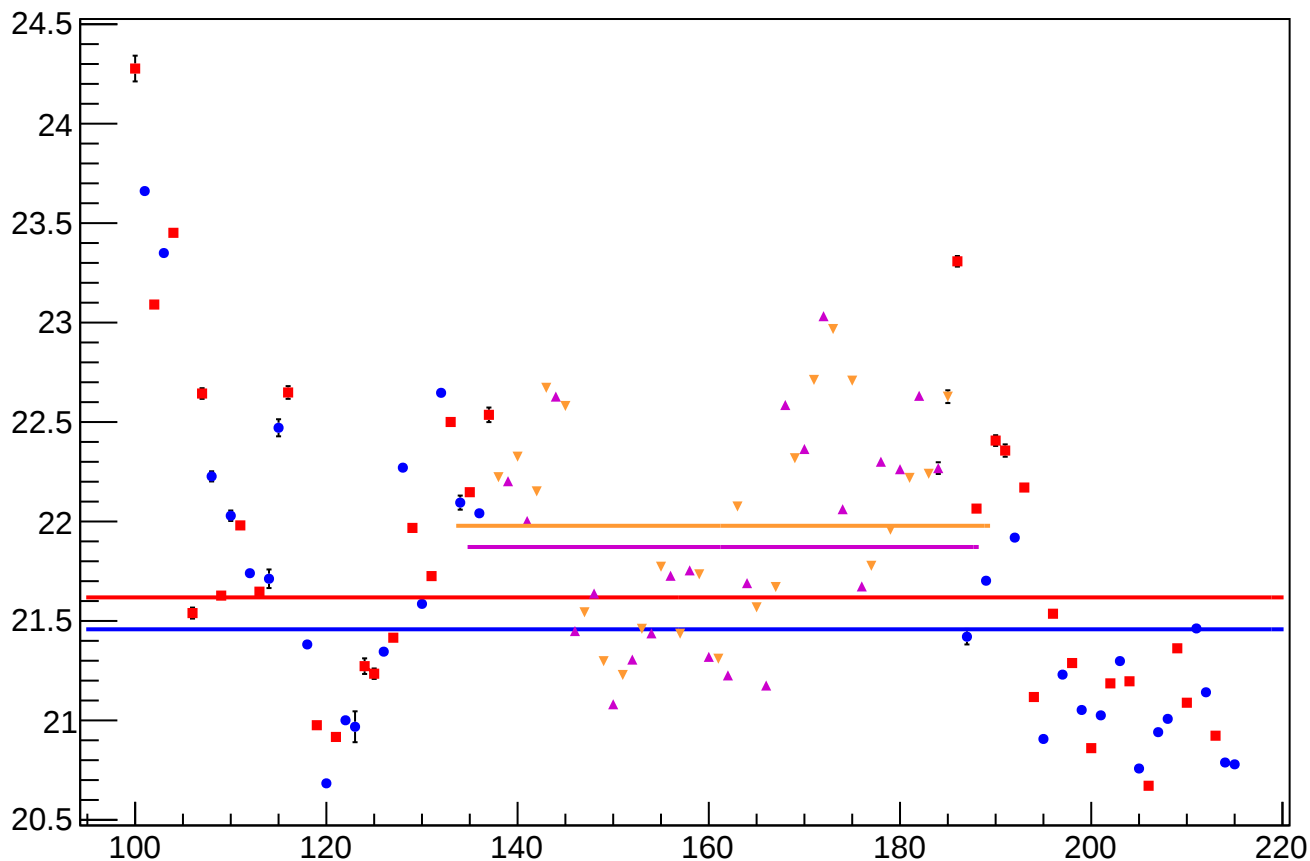
Right: -3.920 ± 3.655 $\chi^2/\text{NDF}: 60.5/65$

In: -1.792 ± 3.674 $\chi^2/\text{NDF}: 48.4/54$

Out: -8.885 ± 3.647 $\chi^2/\text{NDF}: 67.1/58$

All: -5.365 ± 2.588 $\chi^2/\text{NDF}: 117.4/113$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.458 $\pm$ 0.004 χ^2 /NDF: 36673.7/31

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 21.618 $\pm$ 0.004 χ^2 /NDF: 38047.0/33

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

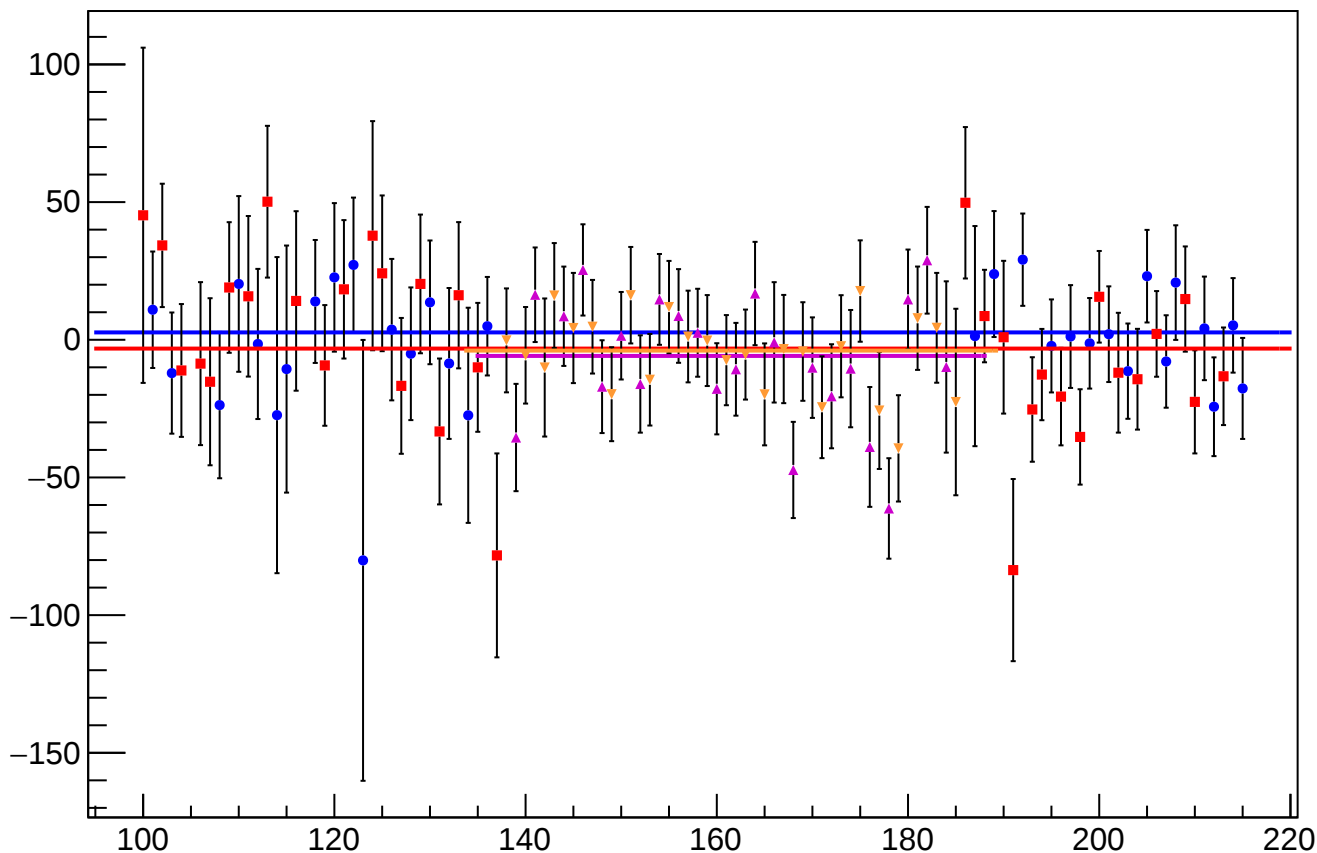
Right: 21.537 $\pm$ 0.003 χ^2 /NDF: 75684.1/65

In: 21.661 $\pm$ 0.003 χ^2 /NDF:63537.3/54

Out: 21.801 $\pm$ 0.003 χ^2 /NDF:62347.9/58

All: 21.731 $\pm$ 0.002 χ^2 /NDF: 127355.7/113

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.677 ± 3.810 χ^2/NDF : 16.6/31

Left Out: -3.927 ± 3.688 χ^2/NDF : 14.0/24

Right Out: -3.196 ± 3.858 χ^2/NDF : 39.4/33

Left In: -5.861 ± 3.787 χ^2/NDF : 36.2/22

Left: -4.869 ± 2.642 χ^2/NDF : 50.3/47

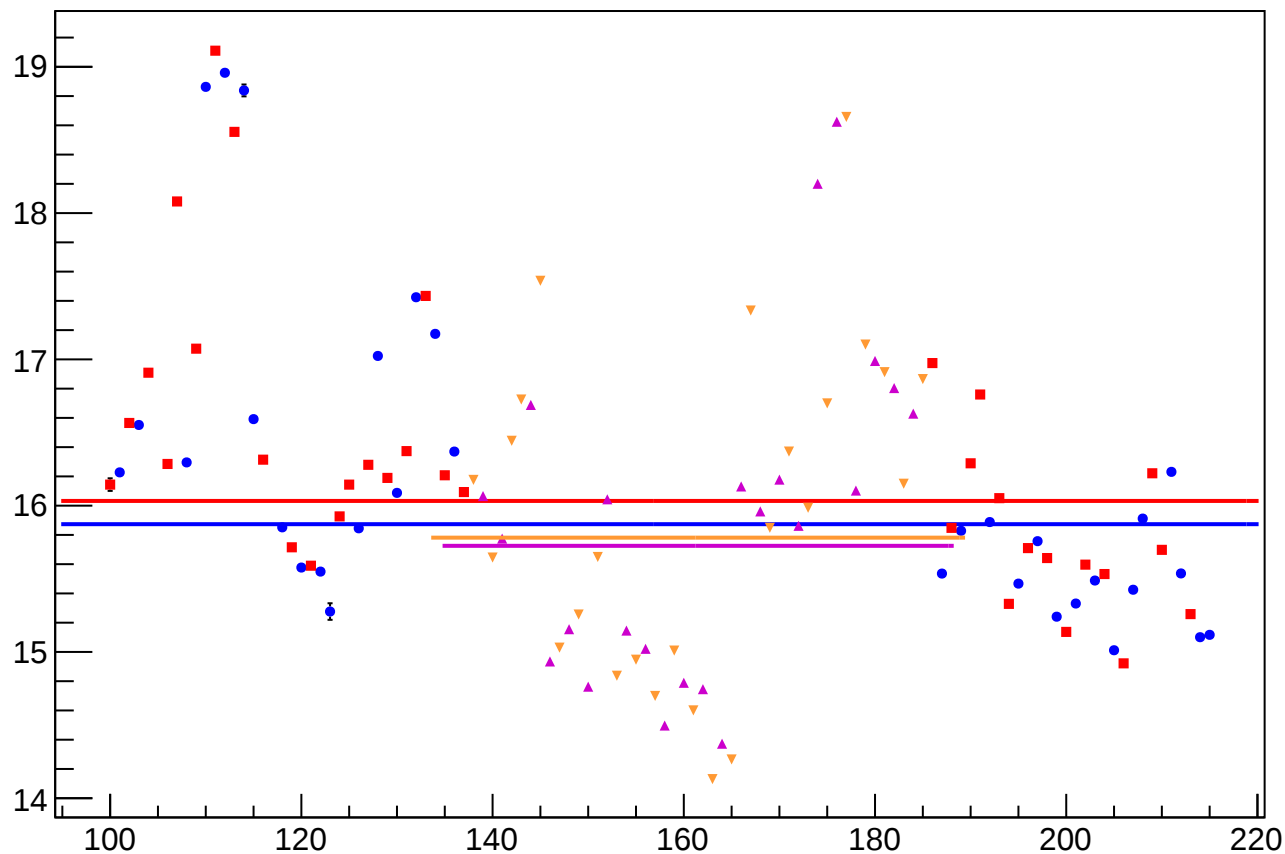
Right: -0.222 ± 2.711 χ^2/NDF : 57.1/65

In: -1.618 ± 2.686 χ^2/NDF : 55.3/54

Out: -3.578 ± 2.666 χ^2/NDF : 53.4/58

All: -2.605 ± 1.892 χ^2/NDF : 109.0/113

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.873 $\pm$ 0.003 χ^2 /NDF: 90472.7/31

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.032 $\pm$ 0.003 χ^2 /NDF: 95405.6/33

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

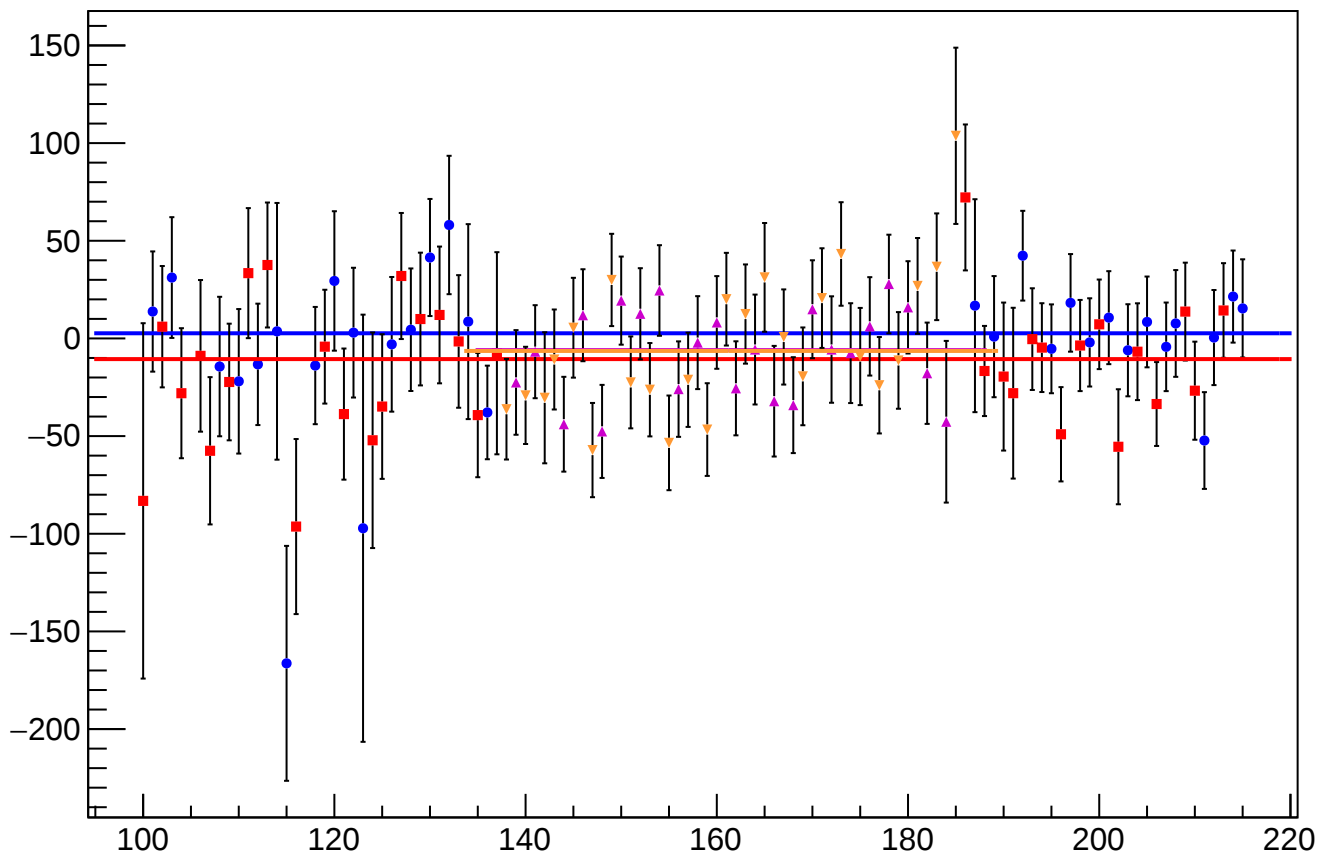
Right: 15.952 $\pm$ 0.002 χ^2 /NDF: 187595.9/65

In: 15.799 $\pm$ 0.002 χ^2 /NDF:237821.3/54

Out: 15.901 $\pm$ 0.002 χ^2 /NDF:272722.2/58

All: 15.850 $\pm$ 0.001 χ^2 /NDF: 512001.6/113

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.639 ± 5.122 $\chi^2/\text{NDF}: 28.4/31$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.580 ± 5.169 $\chi^2/\text{NDF}: 30.3/33$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

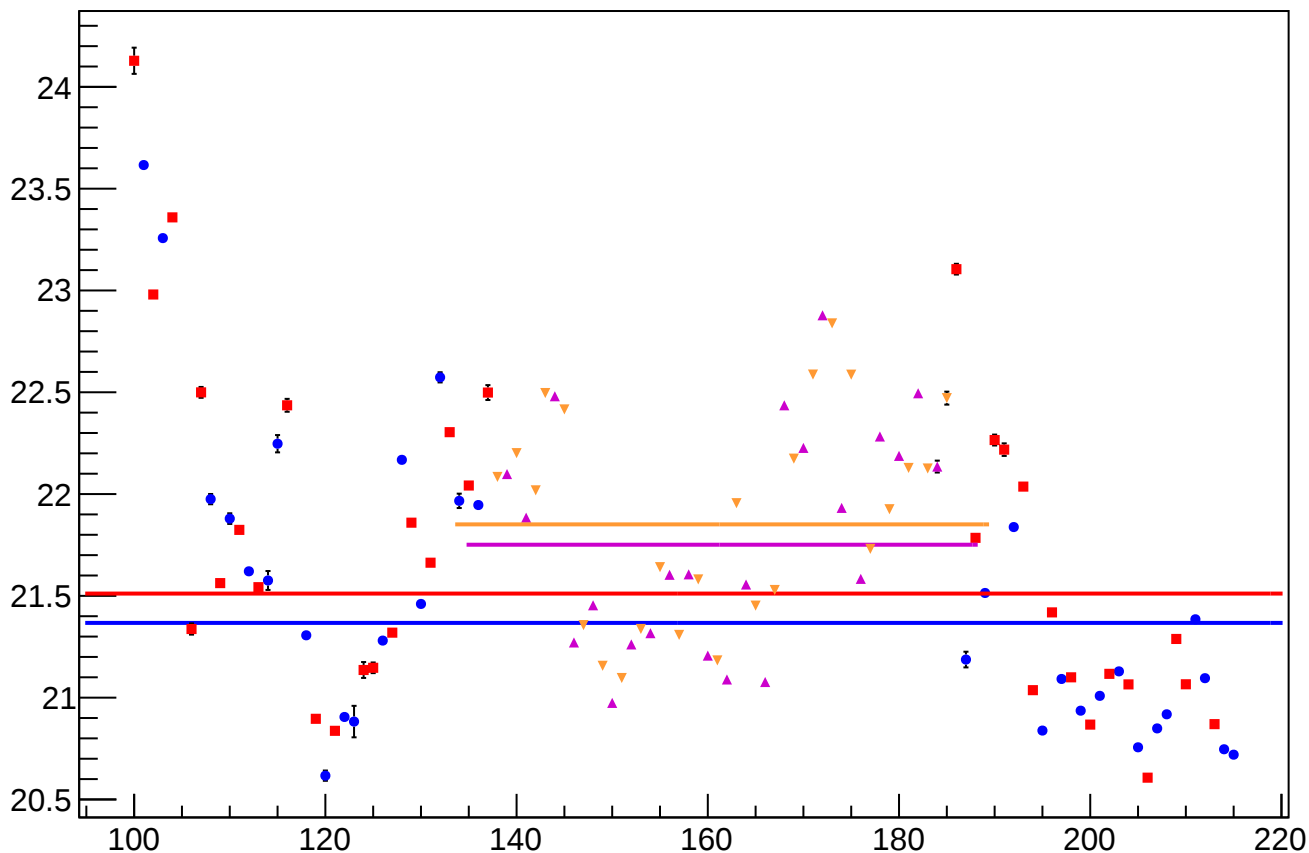
Right: -3.910 ± 3.638 $\chi^2/\text{NDF}: 62.0/65$

In: -1.586 ± 3.657 $\chi^2/\text{NDF}: 48.3/54$

Out: -8.461 ± 3.627 $\chi^2/\text{NDF}: 68.0/58$

All: -5.051 ± 2.575 $\chi^2/\text{NDF}: 118.1/113$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.367 $\pm$ 0.004 χ^2 /NDF: 35677.5/31

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.511 $\pm$ 0.004 χ^2 /NDF: 35308.4/33

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

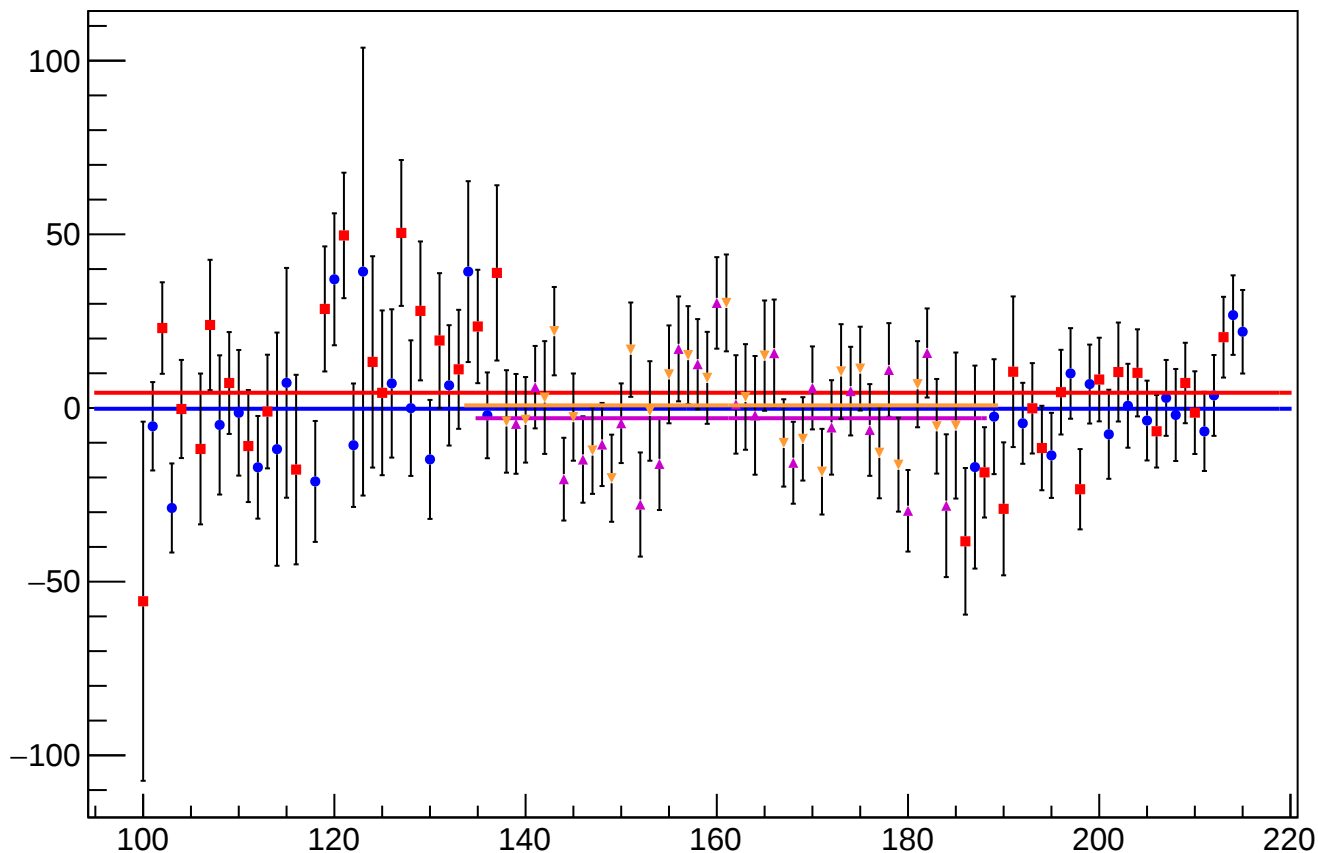
Right: 21.439 $\pm$ 0.003 χ^2 /NDF: 71769.8/65

In: 21.555 $\pm$ 0.003 χ^2 /NDF:61705.7/54

Out: 21.684 $\pm$ 0.003 χ^2 /NDF:59329.3/58

All: 21.620 $\pm$ 0.002 χ^2 /NDF: 122276.0/113

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.218 ± 2.583 $\chi^2/\text{NDF}: 28.6/31$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.391 ± 2.635 $\chi^2/\text{NDF}: 46.9/33$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

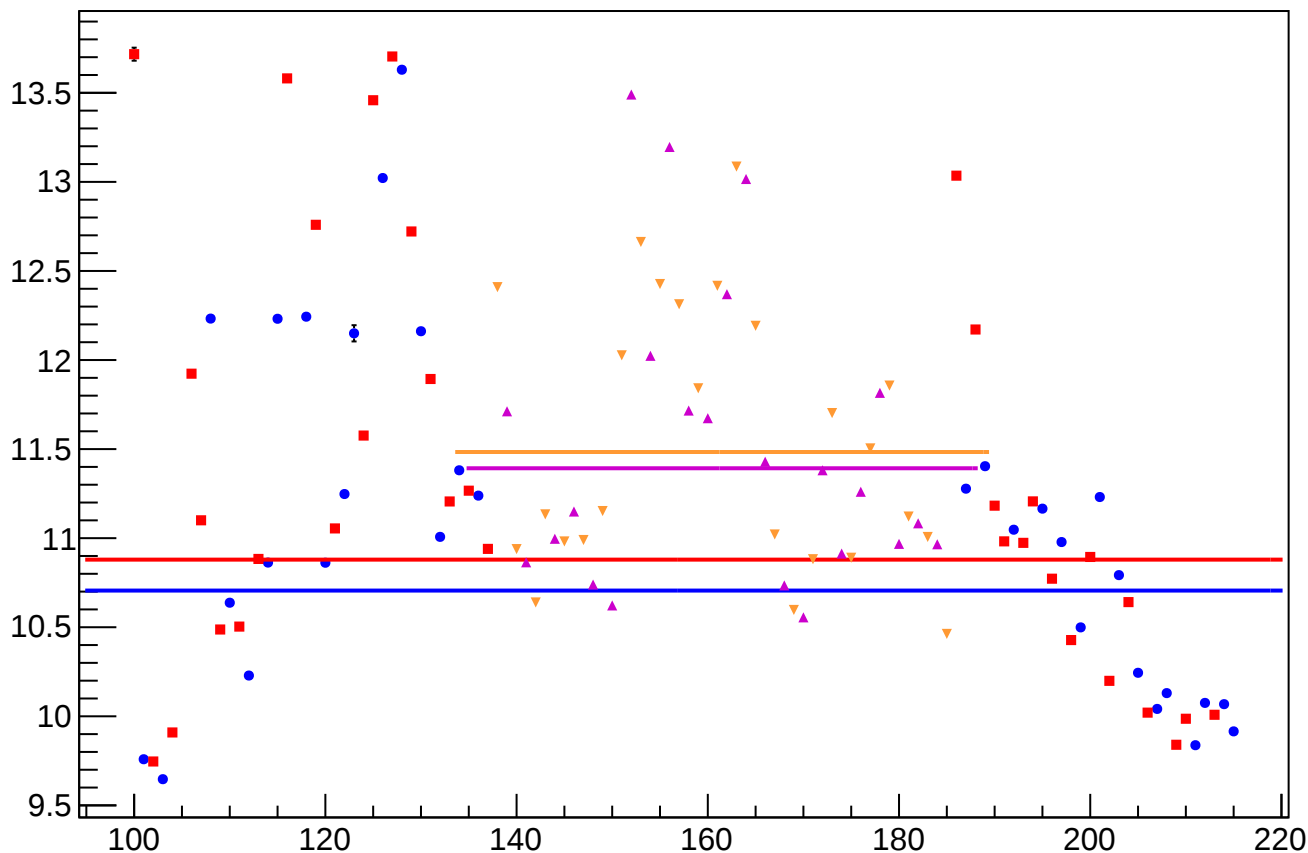
Right: 2.040 ± 1.845 $\chi^2/\text{NDF}: 77.0/65$

In: -1.492 ± 1.885 $\chi^2/\text{NDF}: 60.0/54$

Out: 2.618 ± 1.885 $\chi^2/\text{NDF}: 71.6/58$

All: 0.563 ± 1.333 $\chi^2/\text{NDF}: 134.0/113$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.706 ± 0.002 $\chi^2/\text{NDF}: 210413.9/31$

Left Out: 11.484 ± 0.002 $\chi^2/\text{NDF}: 129805.4/24$

Right Out: 10.880 ± 0.002 $\chi^2/\text{NDF}: 267701.1/33$

Left In: 11.392 ± 0.002 $\chi^2/\text{NDF}: 150493.3/22$

Left: 11.439 ± 0.001 $\chi^2/\text{NDF}: 281419.2/47$

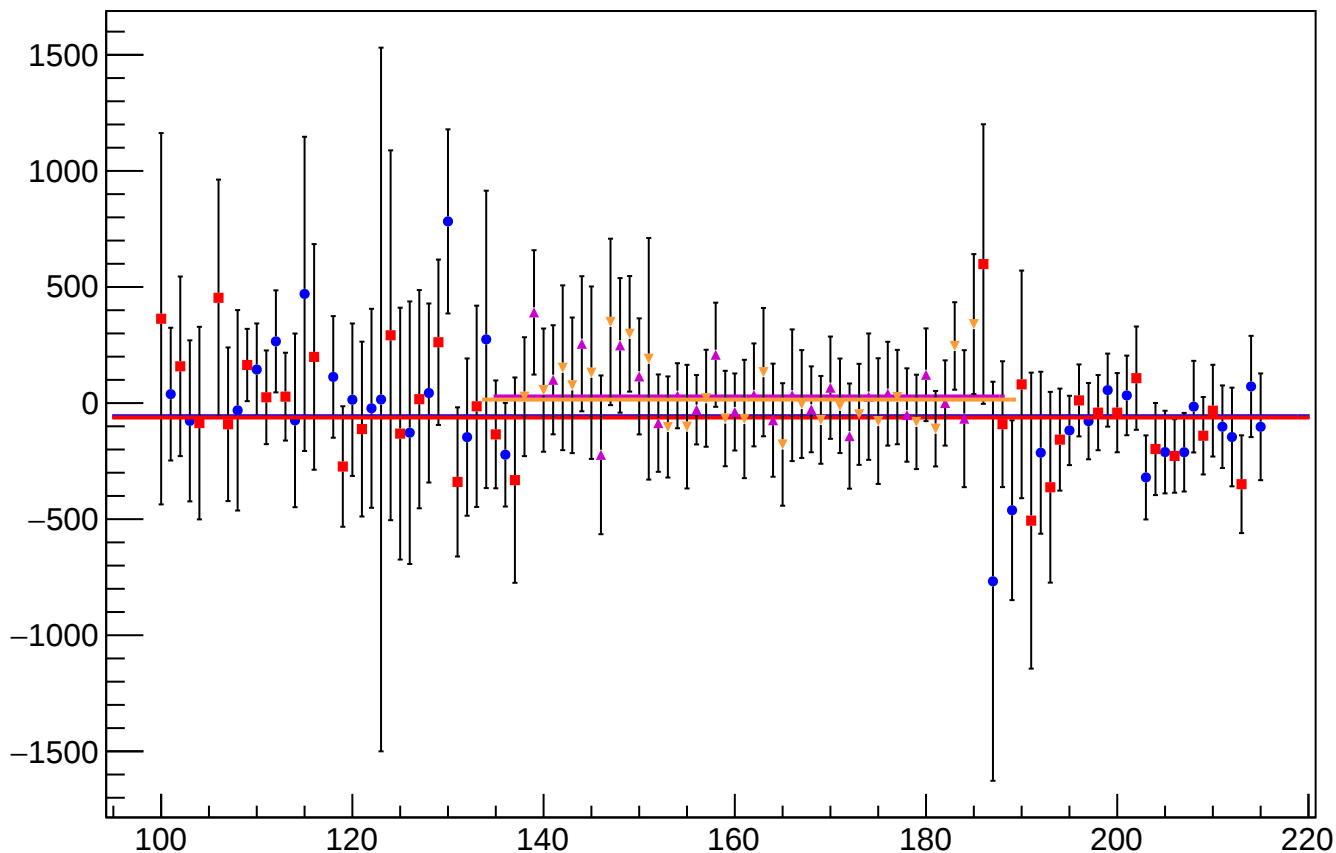
Right: 10.791 ± 0.001 $\chi^2/\text{NDF}: 482546.6/65$

In: 11.027 ± 0.001 $\chi^2/\text{NDF}: 426948.3/54$

Out: 11.174 ± 0.001 $\chi^2/\text{NDF}: 448822.3/58$

All: 11.101 ± 0.001 $\chi^2/\text{NDF}: 881920.7/113$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.575 ± 42.746 $\chi^2/\text{NDF}: 17.2/31$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -62.126 ± 43.184 $\chi^2/\text{NDF}: 14.4/33$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

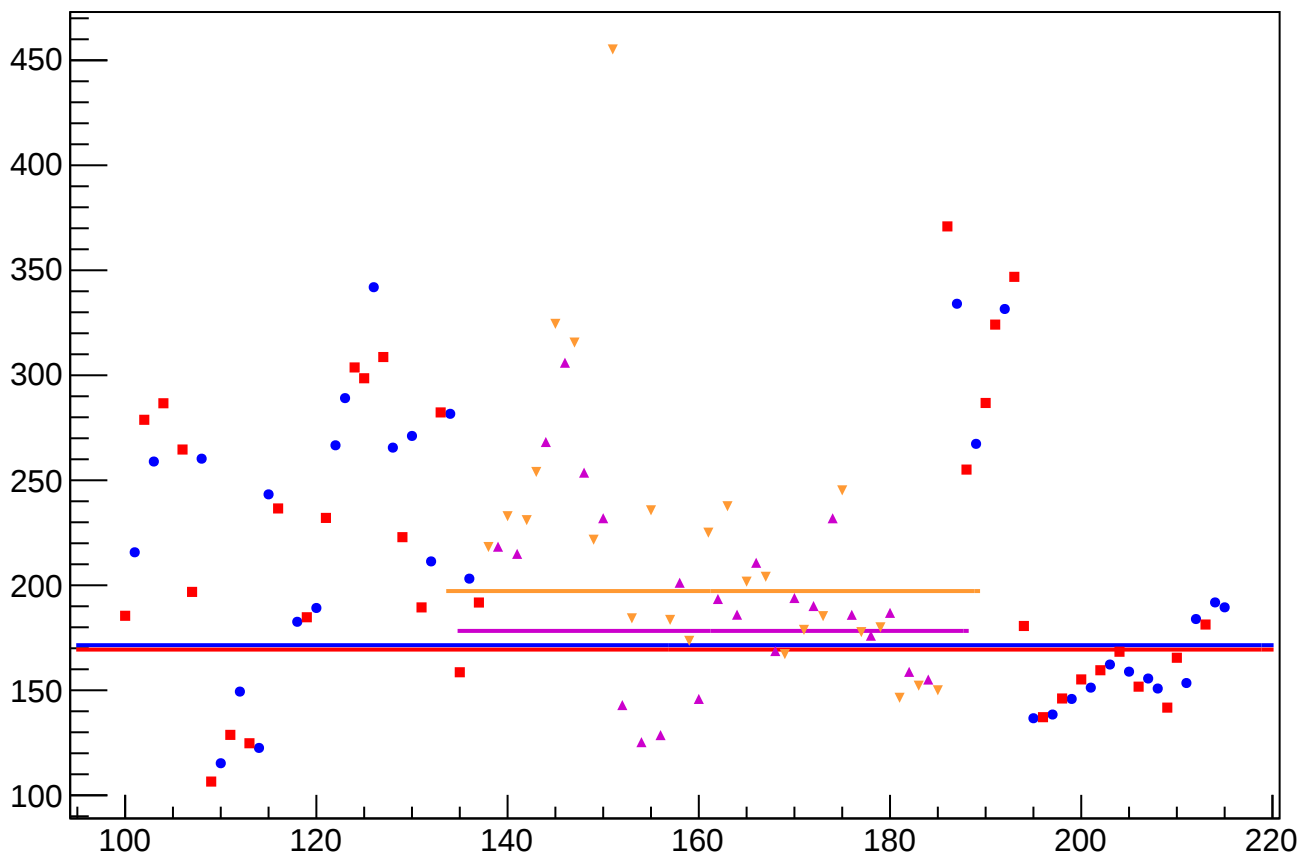
Right: -59.322 ± 30.379 $\chi^2/\text{NDF}: 31.6/65$

In: -16.029 ± 30.925 $\chi^2/\text{NDF}: 25.4/54$

Out: -27.331 ± 32.015 $\chi^2/\text{NDF}: 23.9/58$

All: -21.485 ± 22.243 $\chi^2/\text{NDF}: 49.4/113$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.473+/-0.030 χ^2/NDF : 2168337.2/31

Left Out: 197.249+/-0.034 χ^2/NDF : 1786808.1/24

Right Out: 169.380+/-0.031 χ^2/NDF : 2835072.6/33

Left In: 178.277+/-0.032 χ^2/NDF : 1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

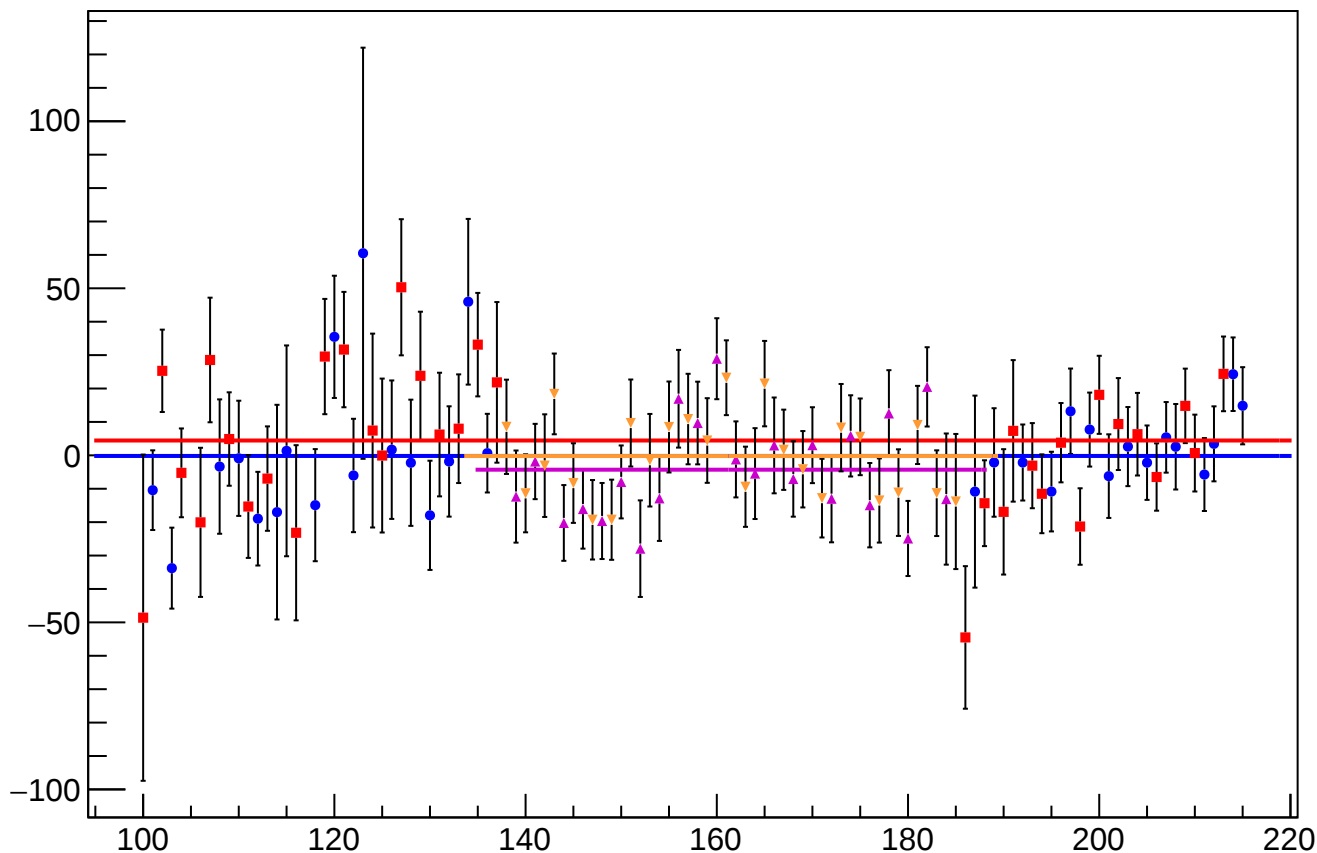
Right: 170.437+/-0.021 χ^2/NDF : 5005780.7/65

In: 174.715+/-0.022 χ^2/NDF : 3821406.7/54

Out: 181.932+/-0.023 χ^2/NDF : 4997031.0/58

All: 178.199+/-0.016 χ^2/NDF : 8871007.6/113

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.184 ± 2.491 χ^2/NDF : 31.1/31

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 4.442 ± 2.549 χ^2/NDF : 50.7/33

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

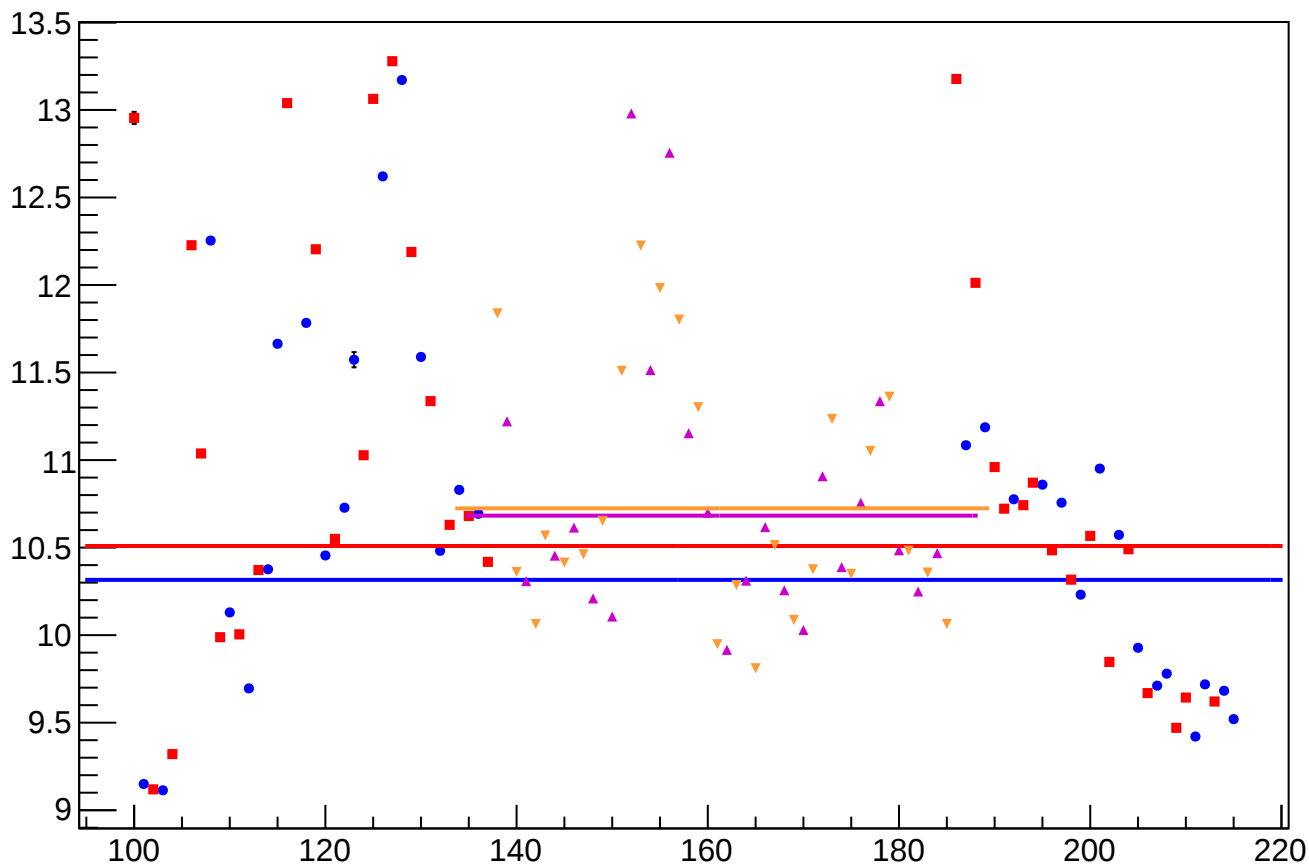
Right: 2.076 ± 1.782 χ^2/NDF : 83.4/65

In: -2.162 ± 1.795 χ^2/NDF : 64.0/54

Out: 2.092 ± 1.793 χ^2/NDF : 76.9/58

All: -0.032 ± 1.269 χ^2/NDF : 143.7/113

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.316 $\pm$ 0.002 χ^2 /NDF: 239205.1/31

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.509 $\pm$ 0.002 χ^2 /NDF: 307789.8/33

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

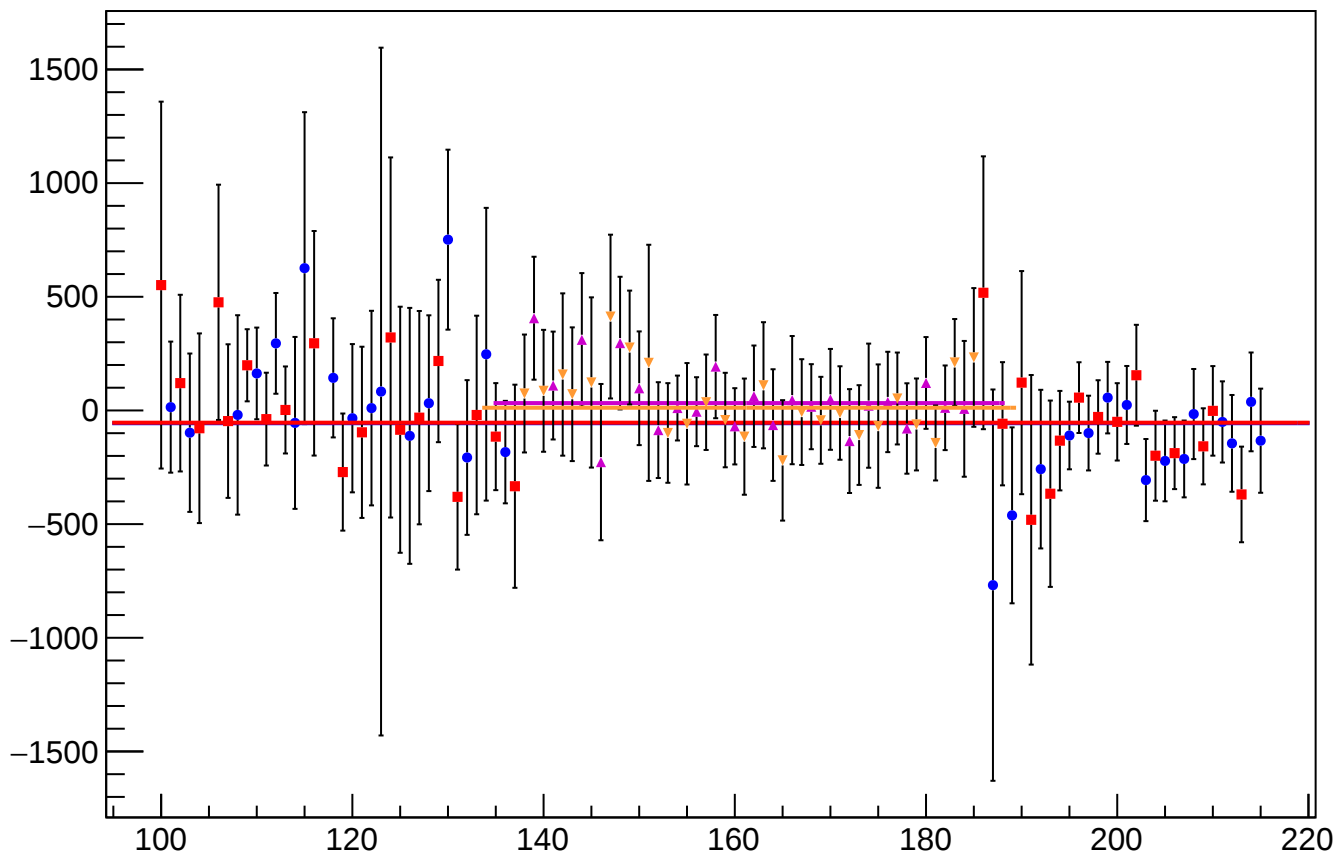
Right: 10.410 $\pm$ 0.001 χ^2 /NDF: 552888.7/65

In: 10.492 $\pm$ 0.001 χ^2 /NDF:407886.4/54

Out: 10.618 $\pm$ 0.001 χ^2 /NDF:447528.2/58

All: 10.555 $\pm$ 0.001 χ^2 /NDF: 860320.3/113

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.214 ± 42.806 χ^2/NDF : 17.6/31

Left Out: 11.891 ± 48.022 χ^2/NDF : 7.6/24

Right Out: -53.848 ± 43.313 χ^2/NDF : 15.5/33

Left In: 32.413 ± 45.155 χ^2/NDF : 6.9/22

Left: 22.783 ± 32.896 χ^2/NDF : 14.6/47

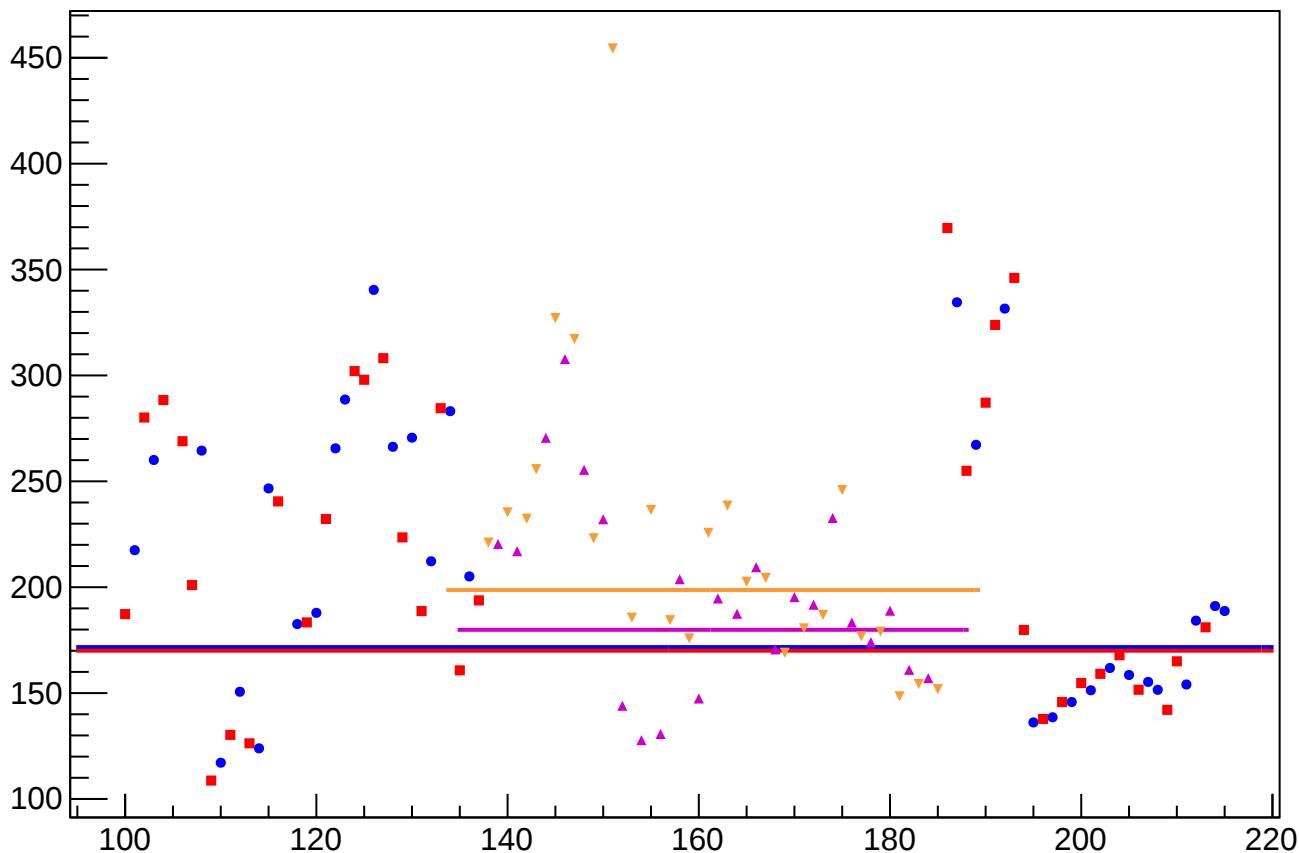
Right: -55.045 ± 30.446 χ^2/NDF : 33.1/65

In: -14.266 ± 31.065 χ^2/NDF : 26.5/54

Out: -24.359 ± 32.163 χ^2/NDF : 24.2/58

All: -19.137 ± 22.345 χ^2/NDF : 50.8/113

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.723 $\pm$ 0.030 χ^2 /NDF: 2163469.5/31

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 170.023 $\pm$ 0.031 χ^2 /NDF: 2794196.9/33

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

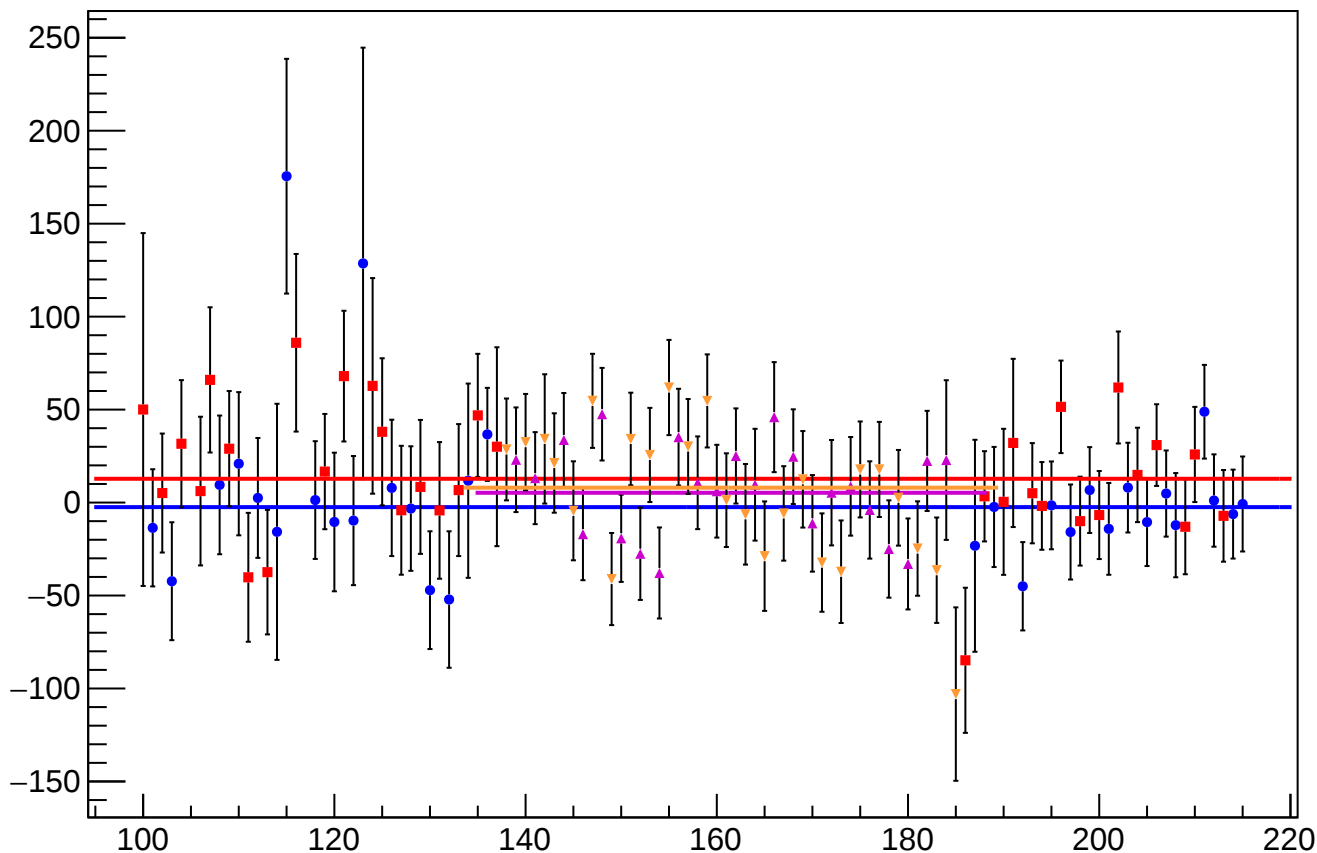
Right: 170.883 $\pm$ 0.022 χ^2 /NDF: 4959224.6/65

In: 175.587 $\pm$ 0.022 χ^2 /NDF:3778533.7/54

Out: 182.885 $\pm$ 0.023 χ^2 /NDF:4946640.8/58

All: 179.109 $\pm$ 0.016 χ^2 /NDF: 8778445.5/113

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.450 ± 5.287 χ^2/NDF : 26.7/31

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 12.797 ± 5.356 χ^2/NDF : 31.3/33

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

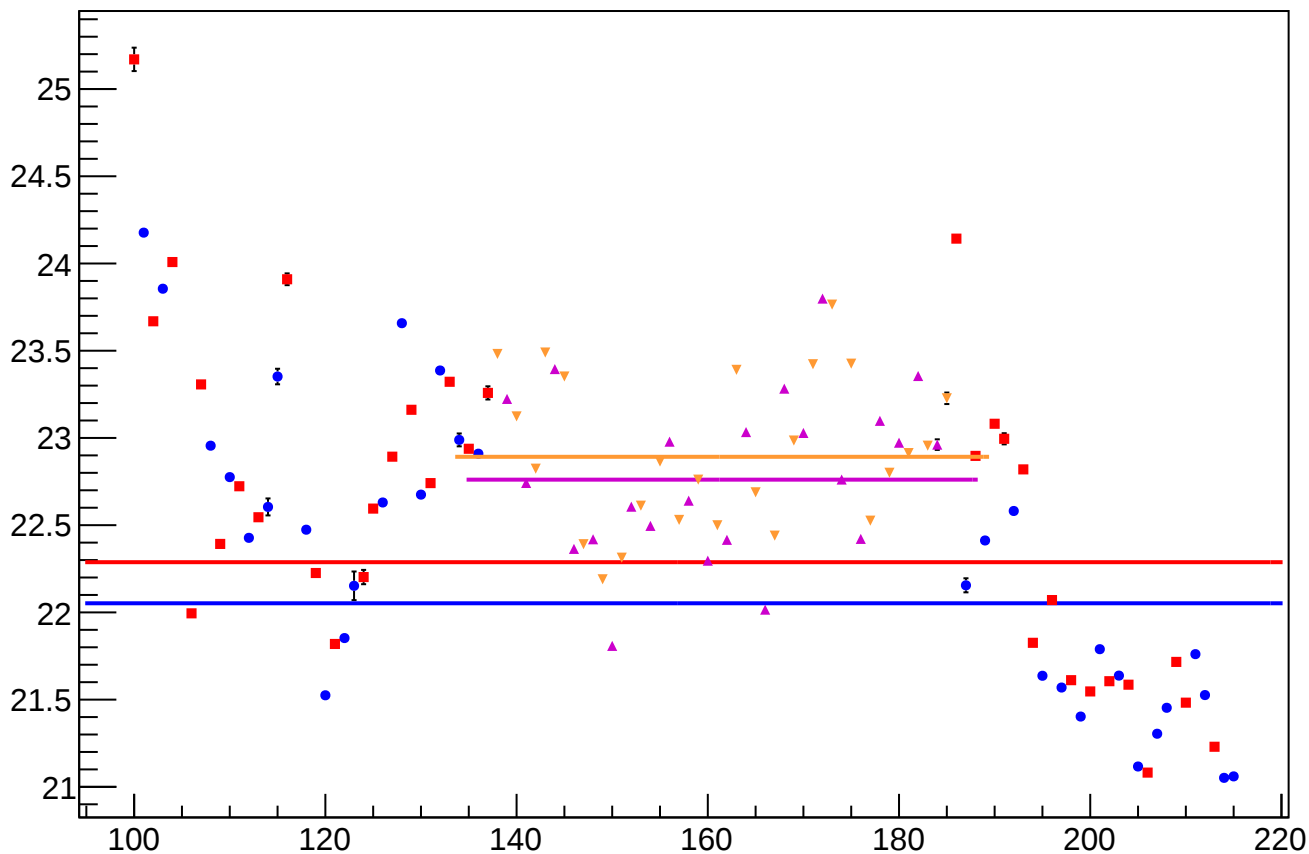
Right: 5.074 ± 3.763 χ^2/NDF : 62.1/65

In: 1.278 ± 3.800 χ^2/NDF : 48.5/54

Out: 10.390 ± 3.780 χ^2/NDF : 69.2/58

All: 5.858 ± 2.680 χ^2/NDF : 120.6/113

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.052 $\pm$ 0.004 χ^2 /NDF: 49810.8/31

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.288 $\pm$ 0.004 χ^2 /NDF: 48156.2/33

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

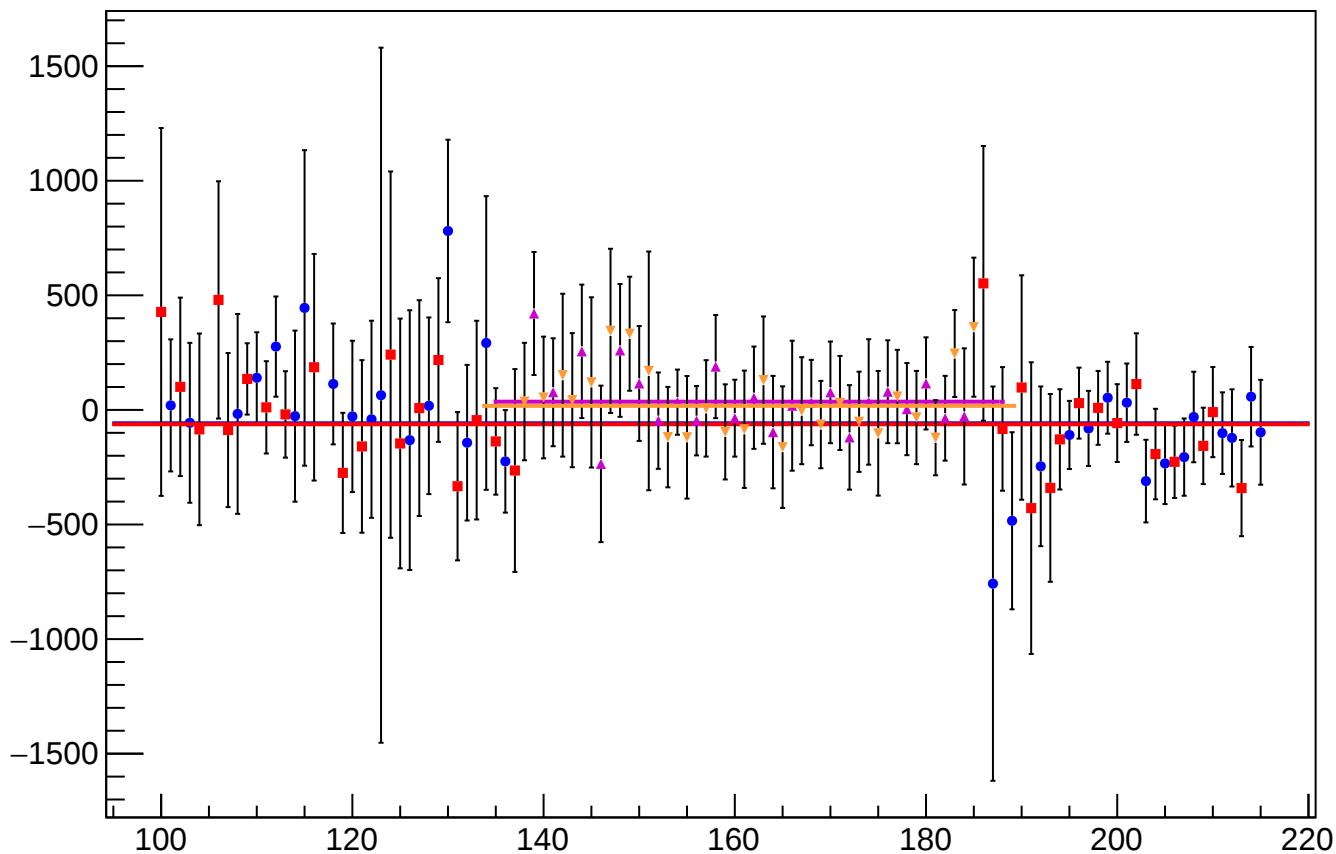
Right: 22.169 $\pm$ 0.003 χ^2 /NDF: 99925.7/65

In: 22.395 $\pm$ 0.003 χ^2 /NDF:81733.5/54

Out: 22.591 $\pm$ 0.003 χ^2 /NDF:73925.2/58

All: 22.494 $\pm$ 0.002 χ^2 /NDF: 158340.0/113

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.370 ± 42.687 $\chi^2/\text{NDF}: 17.1/31$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -62.525 ± 43.130 $\chi^2/\text{NDF}: 13.1/33$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

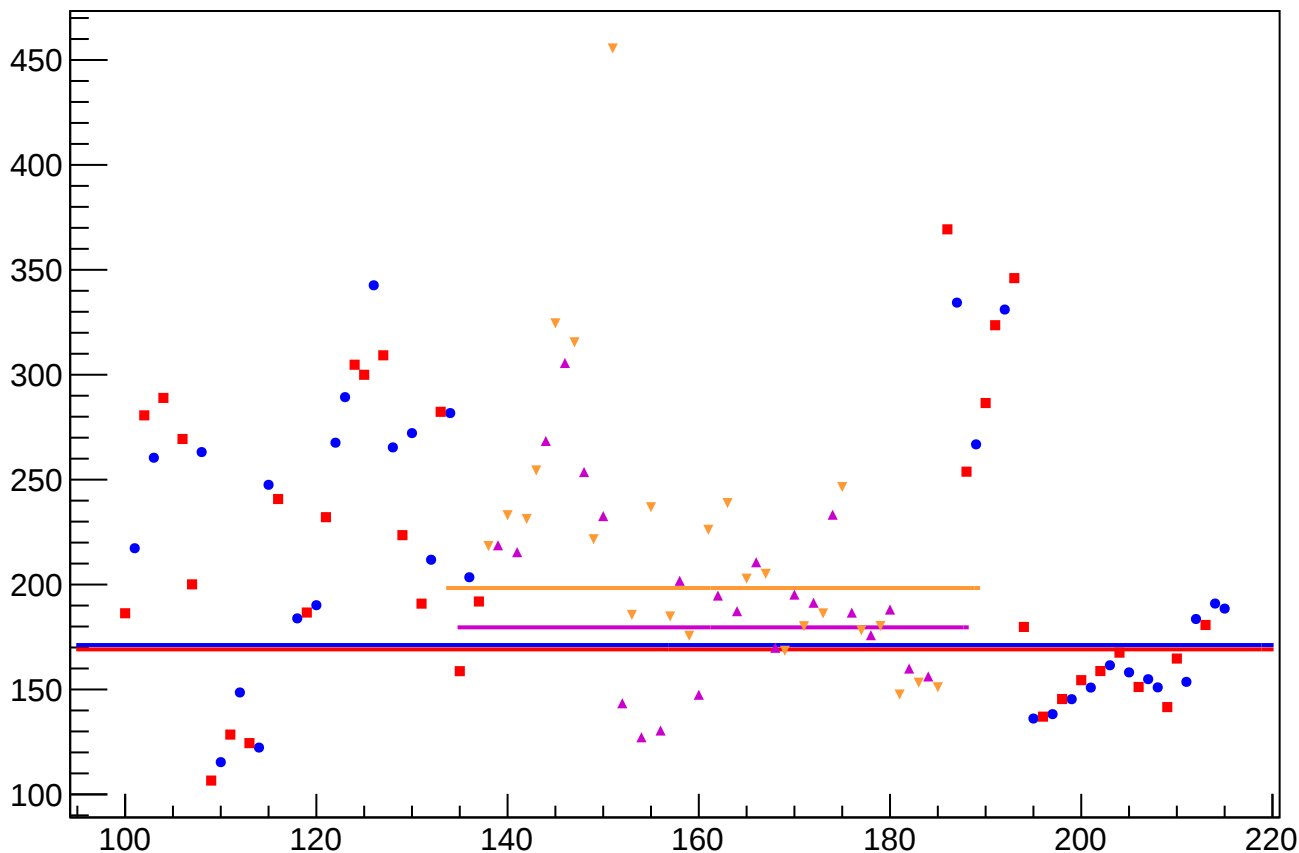
Right: -60.426 ± 30.340 $\chi^2/\text{NDF}: 30.2/65$

In: -13.821 ± 30.998 $\chi^2/\text{NDF}: 25.7/54$

Out: -26.605 ± 32.064 $\chi^2/\text{NDF}: 23.2/58$

All: -19.997 ± 22.286 $\chi^2/\text{NDF}: 49.0/113$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.175+/-0.030 χ^2/NDF : 2194683.9/31

Left Out: 198.344+/-0.034 χ^2/NDF :1757450.6/24

Right Out: 169.113+/-0.030 χ^2/NDF : 2862288.6/33

Left In: 179.605+/-0.032 χ^2/NDF :1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

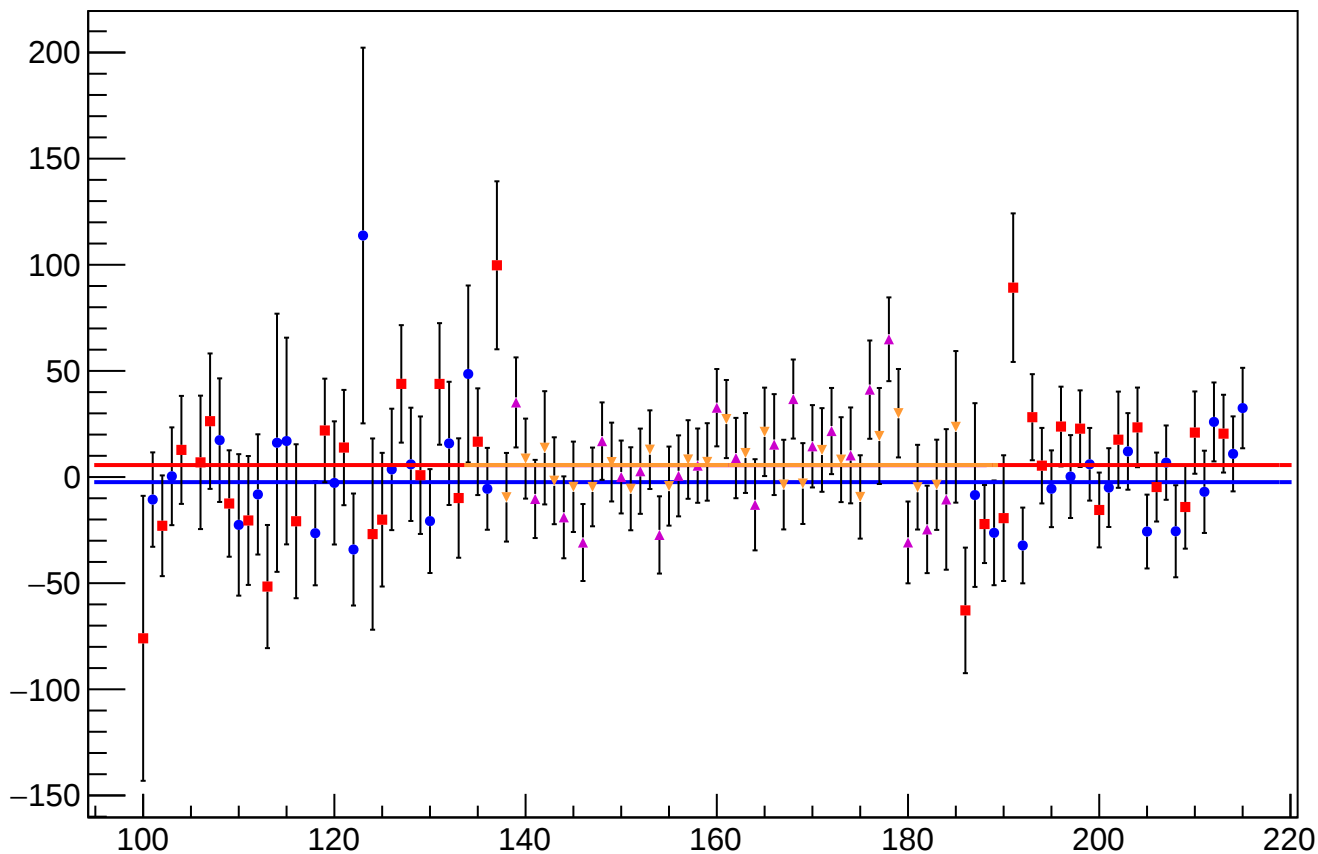
Right: 170.155+/-0.021 χ^2/NDF : 5059282.3/65

In: 175.160+/-0.022 χ^2/NDF :3807292.4/54

Out: 182.188+/-0.023 χ^2/NDF :5030660.1/58

All: 178.555+/-0.016 χ^2/NDF : 8887627.1/113

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.398 ± 4.025 $\chi^2/\text{NDF}: 22.3/31$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 5.645 ± 4.096 $\chi^2/\text{NDF}: 43.2/33$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

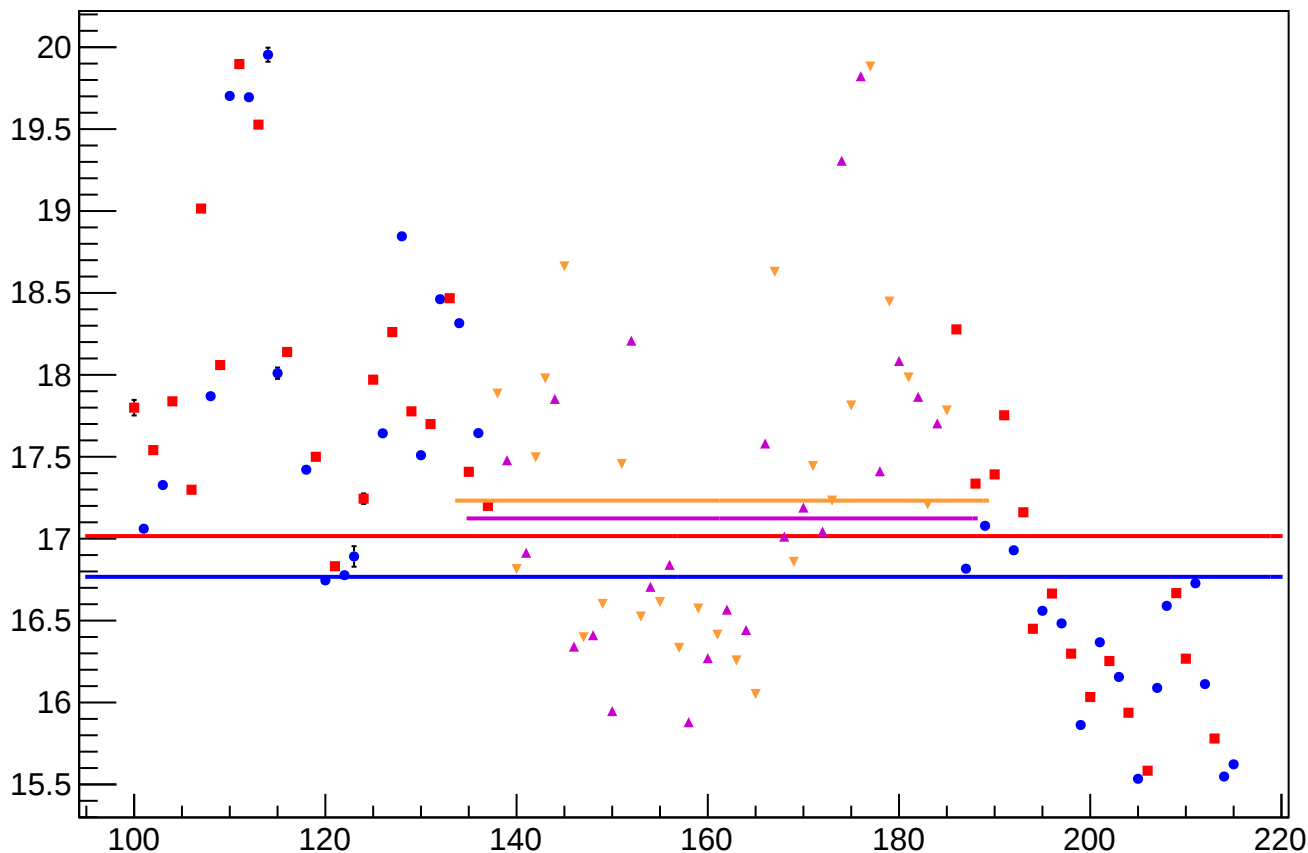
Right: 1.553 ± 2.871 $\chi^2/\text{NDF}: 67.4/65$

In: 1.504 ± 2.880 $\chi^2/\text{NDF}: 60.6/54$

Out: 5.663 ± 2.870 $\chi^2/\text{NDF}: 50.9/58$

All: 3.590 ± 2.033 $\chi^2/\text{NDF}: 112.5/113$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.767 ± 0.003 $\chi^2/\text{NDF}: 121535.1/31$

Left Out: 17.232 ± 0.003 $\chi^2/\text{NDF}: 98701.0/24$

Right Out: 17.016 ± 0.003 $\chi^2/\text{NDF}: 119848.5/33$

Left In: 17.124 ± 0.003 $\chi^2/\text{NDF}: 100747.0/22$

Left: 17.179 ± 0.002 $\chi^2/\text{NDF}: 200160.6/47$

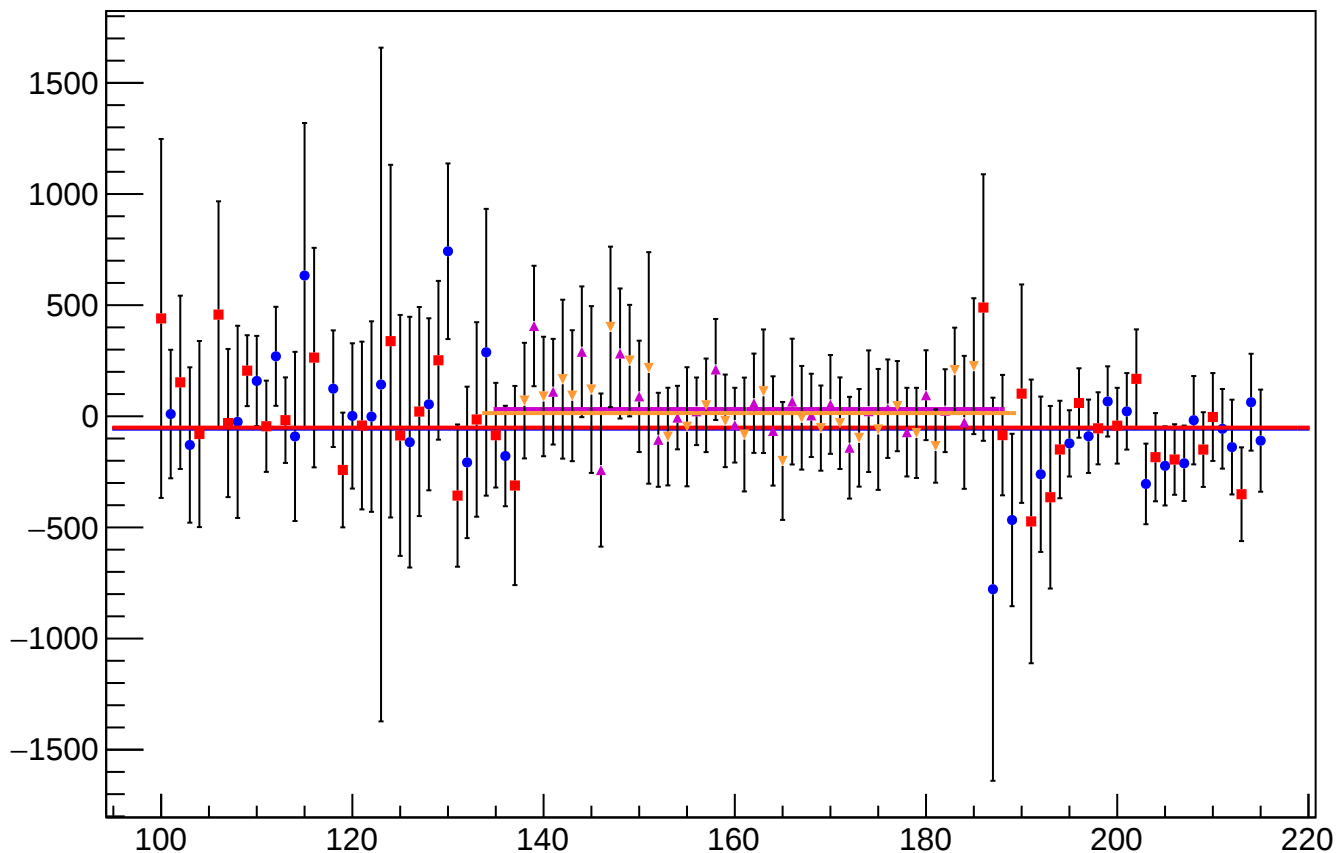
Right: 16.889 ± 0.002 $\chi^2/\text{NDF}: 245131.3/65$

In: 16.941 ± 0.002 $\chi^2/\text{NDF}: 229942.1/54$

Out: 17.126 ± 0.002 $\chi^2/\text{NDF}: 221396.9/58$

All: 17.034 ± 0.001 $\chi^2/\text{NDF}: 455470.4/113$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.820 ± 42.933 $\chi^2/\text{NDF}: 17.2/31$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -50.974 ± 43.427 $\chi^2/\text{NDF}: 14.8/33$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

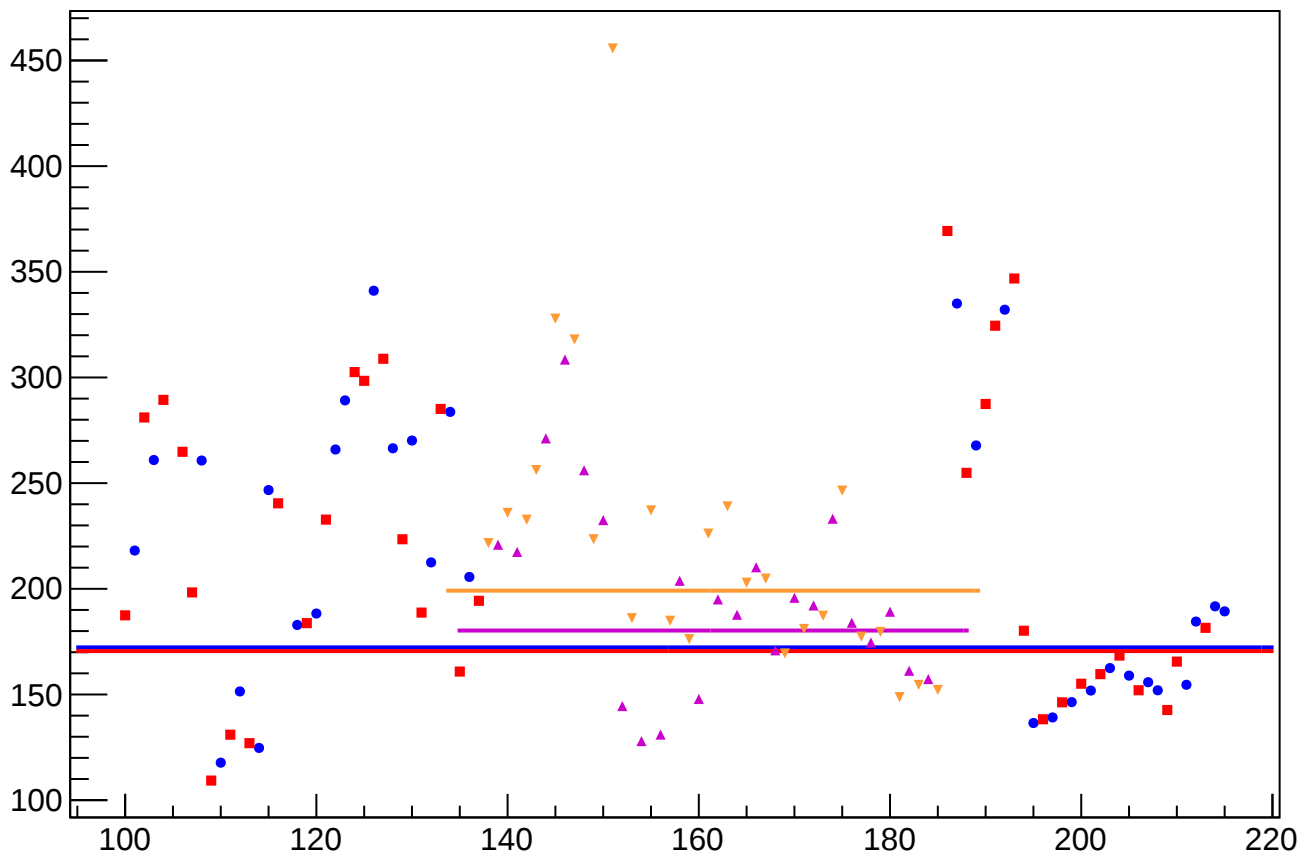
Right: -53.425 ± 30.531 $\chi^2/\text{NDF}: 32.0/65$

In: -13.943 ± 31.144 $\chi^2/\text{NDF}: 25.9/54$

Out: -21.653 ± 32.242 $\chi^2/\text{NDF}: 22.7/58$

All: -17.665 ± 22.400 $\chi^2/\text{NDF}: 48.7/113$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.282 $\pm$ 0.030 χ^2 /NDF: 2145136.9/31

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 170.537 $\pm$ 0.031 χ^2 /NDF: 2769515.6/33

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

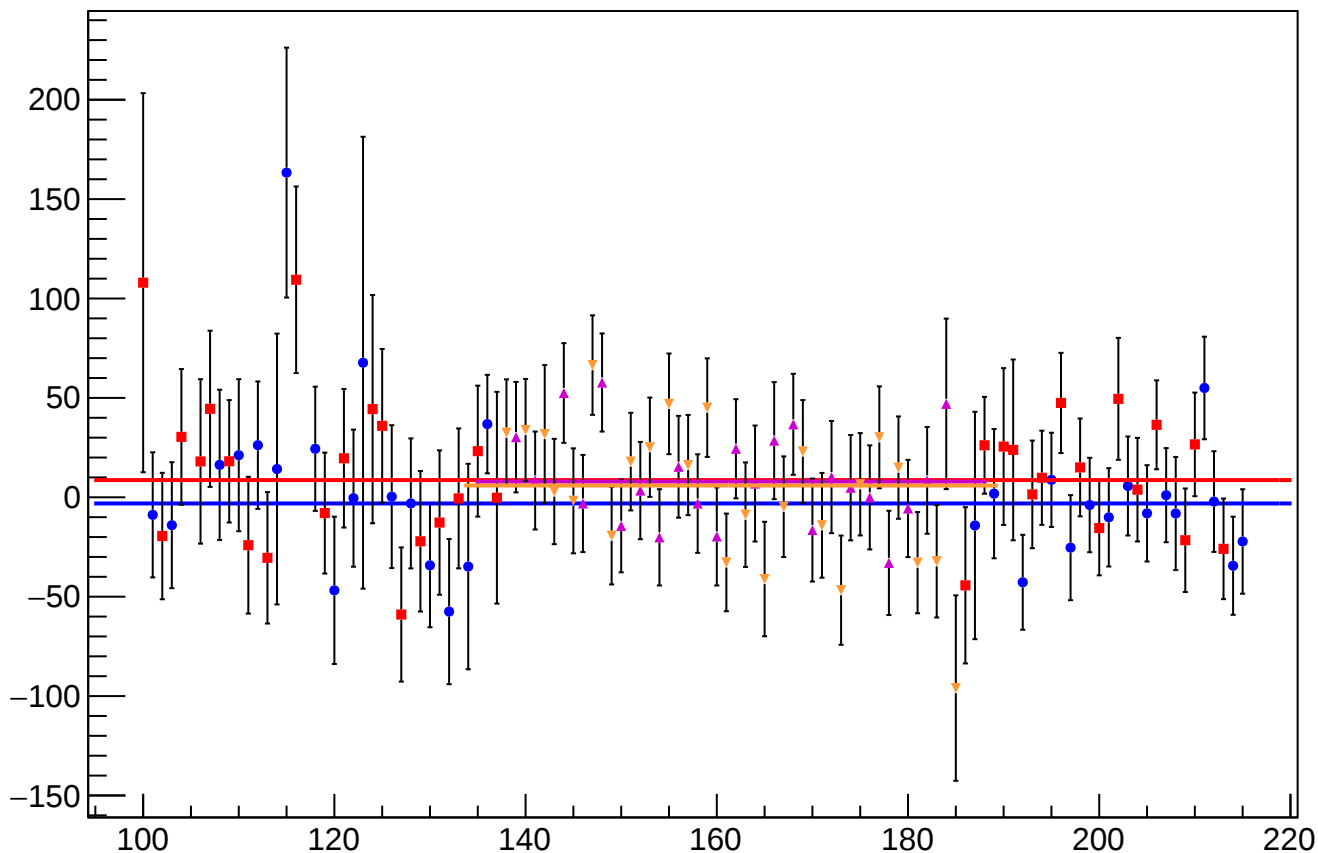
Right: 171.419 $\pm$ 0.022 χ^2 /NDF: 4916286.3/65

In: 176.060 $\pm$ 0.022 χ^2 /NDF:3758380.0/54

Out: 183.371 $\pm$ 0.023 χ^2 /NDF:4919076.9/58

All: 179.589 $\pm$ 0.016 χ^2 /NDF: 8730656.4/113

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.105 ± 5.337 χ^2/NDF : 28.8/31

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 8.660 ± 5.384 χ^2/NDF : 30.1/33

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

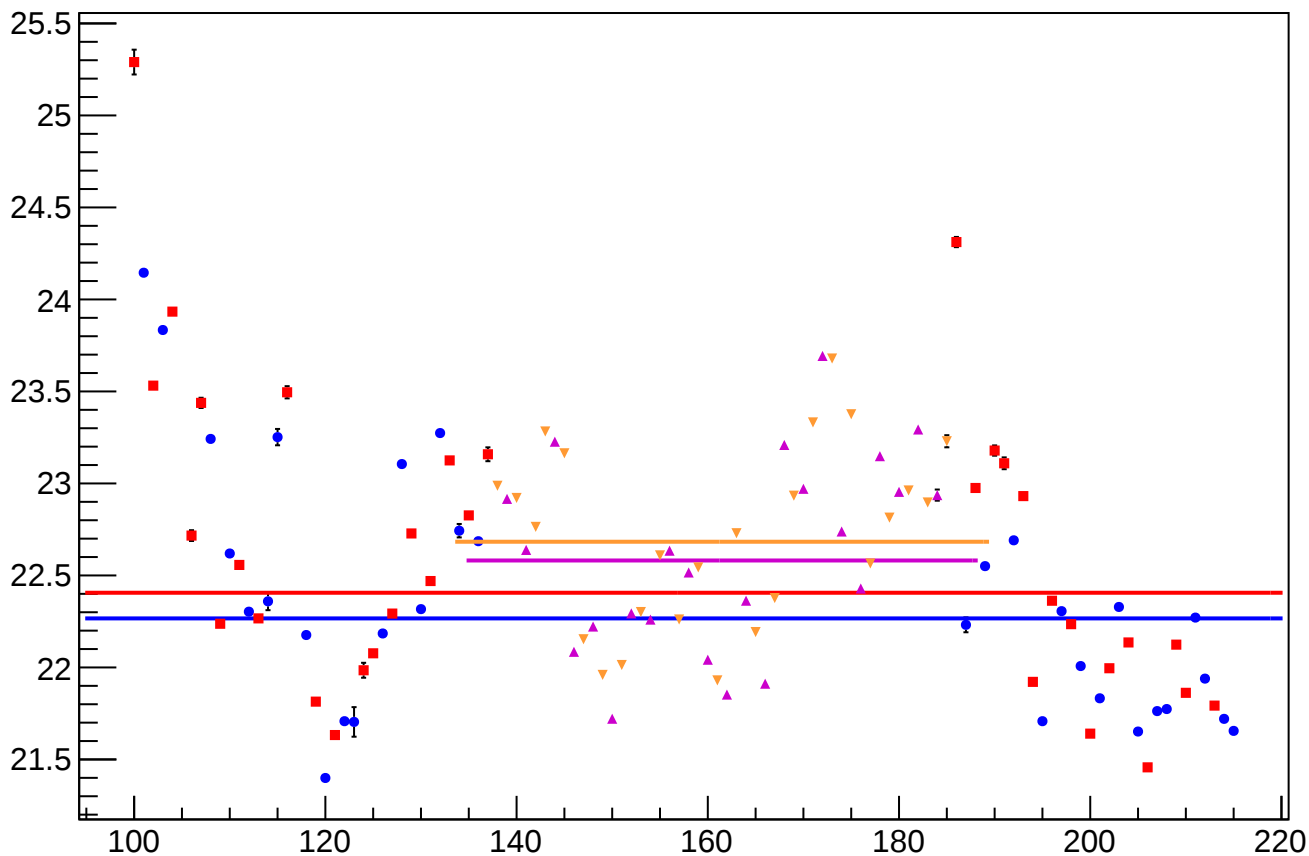
Right: 2.726 ± 3.790 χ^2/NDF : 61.3/65

In: 2.318 ± 3.803 χ^2/NDF : 49.6/54

Out: 7.273 ± 3.771 χ^2/NDF : 66.3/58

All: 4.817 ± 2.678 χ^2/NDF : 116.8/113

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.267+/-0.004 χ^2/NDF : 27265.4/31

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.406+/-0.004 χ^2/NDF : 32065.7/33

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

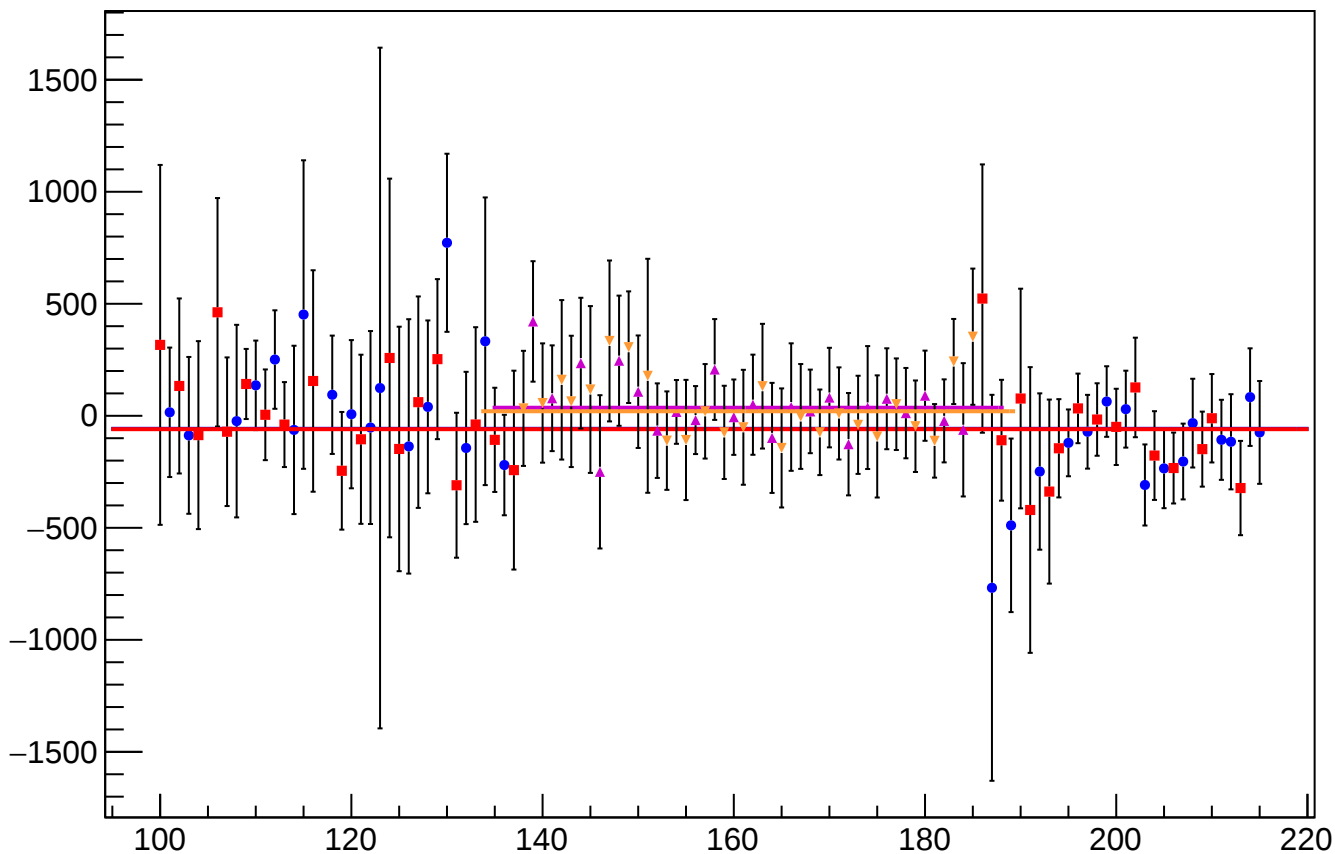
Right: 22.336+/-0.003 χ^2/NDF : 60007.9/65

In: 22.421+/-0.003 χ^2/NDF :48594.7/54

Out: 22.547+/-0.003 χ^2/NDF :51086.9/58

All: 22.485+/-0.002 χ^2/NDF : 100783.2/113

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.052 ± 42.815 $\chi^2/\text{NDF}: 16.8/31$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -59.705 ± 43.245 $\chi^2/\text{NDF}: 12.4/33$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

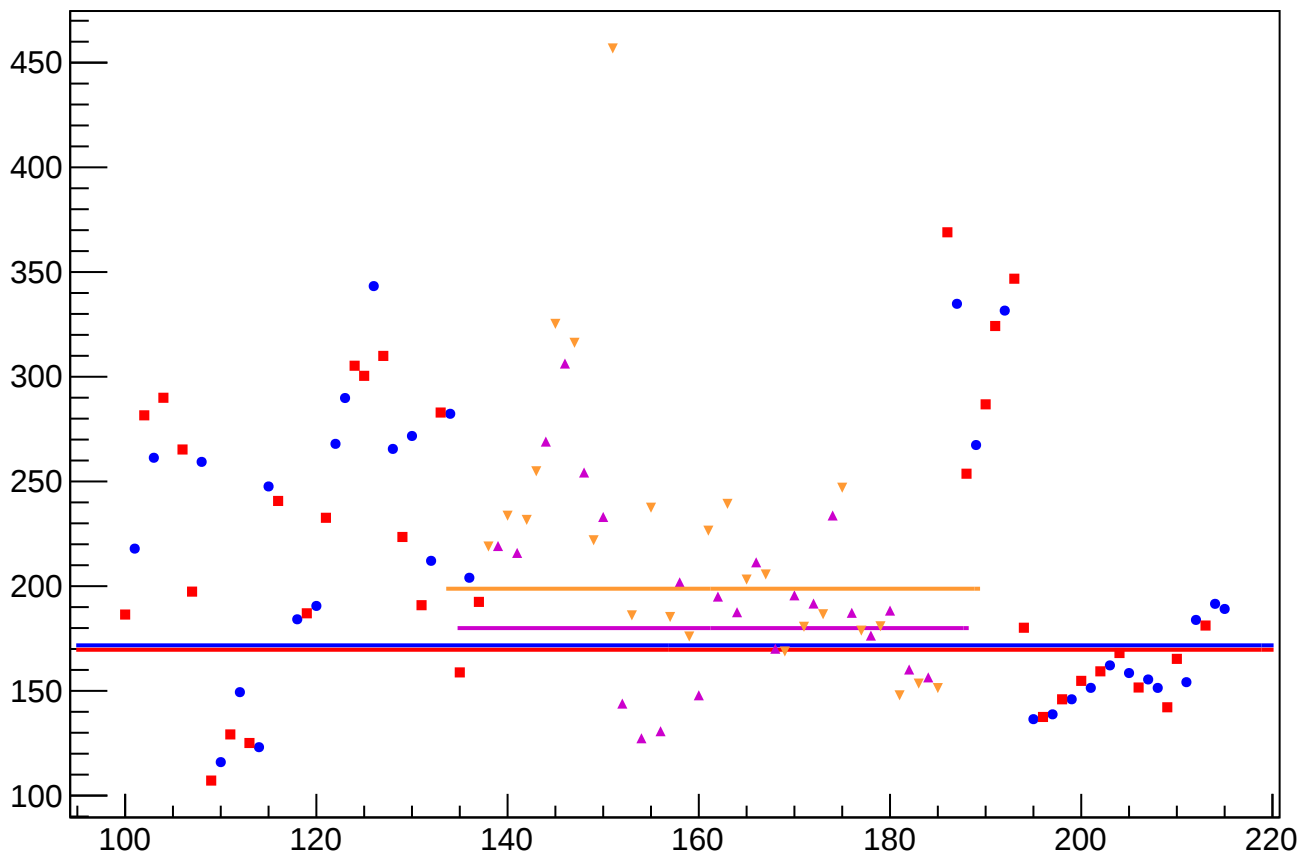
Right: -58.870 ± 30.426 $\chi^2/\text{NDF}: 29.2/65$

In: -13.553 ± 31.077 $\chi^2/\text{NDF}: 25.2/54$

Out: -23.898 ± 32.143 $\chi^2/\text{NDF}: 21.6/58$

All: -18.551 ± 22.342 $\chi^2/\text{NDF}: 46.9/113$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.739 $\pm$ 0.030 χ^2 /NDF: 2175755.5/31

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 169.633 $\pm$ 0.031 χ^2 /NDF: 2836704.8/33

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

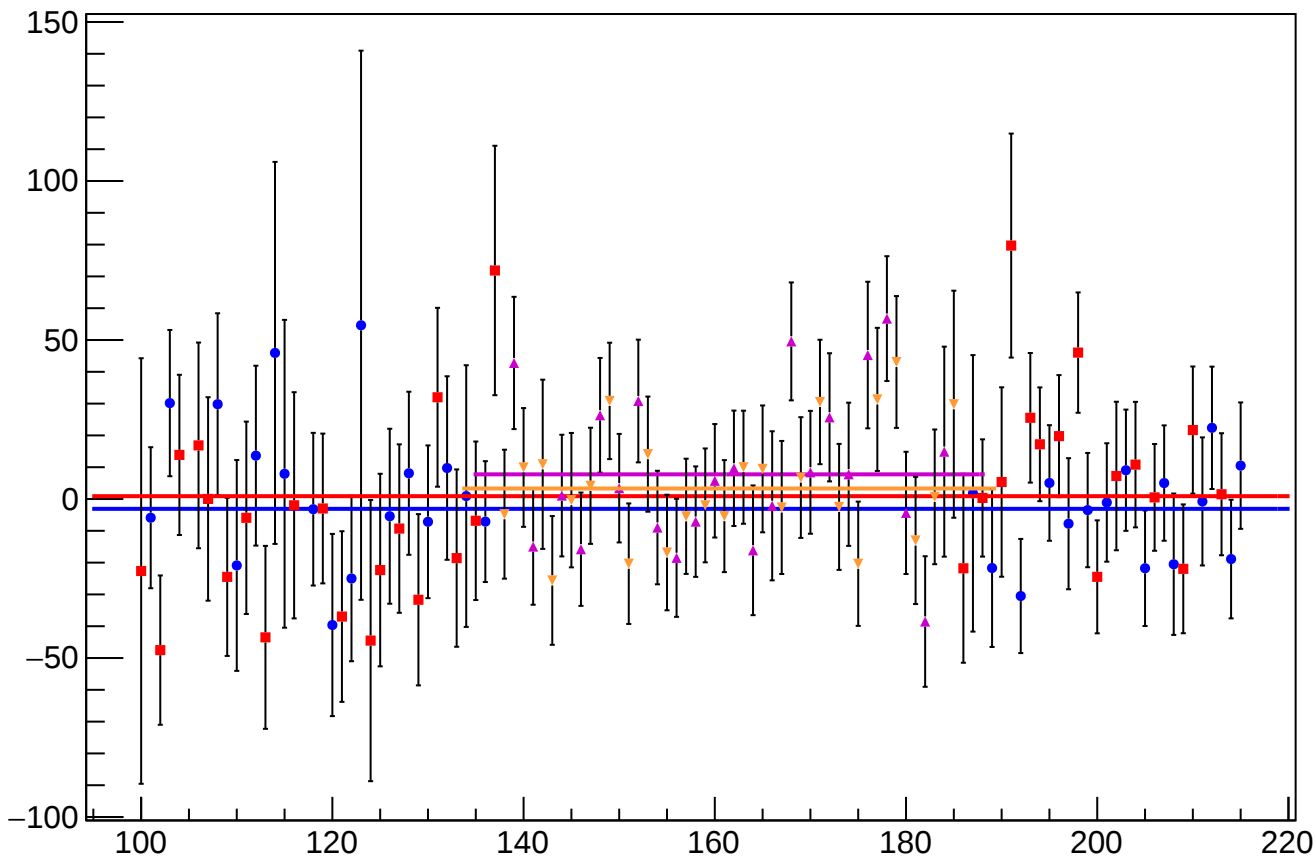
Right: 170.697 $\pm$ 0.022 χ^2 /NDF: 5014855.9/65

In: 175.635 $\pm$ 0.022 χ^2 /NDF:3786636.0/54

Out: 182.679 $\pm$ 0.023 χ^2 /NDF:5001903.7/58

All: 179.038 $\pm$ 0.016 χ^2 /NDF: 8838187.1/113

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.089 ± 4.091 χ^2/NDF : 16.4/31

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 0.893 ± 4.135 χ^2/NDF : 38.0/33

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

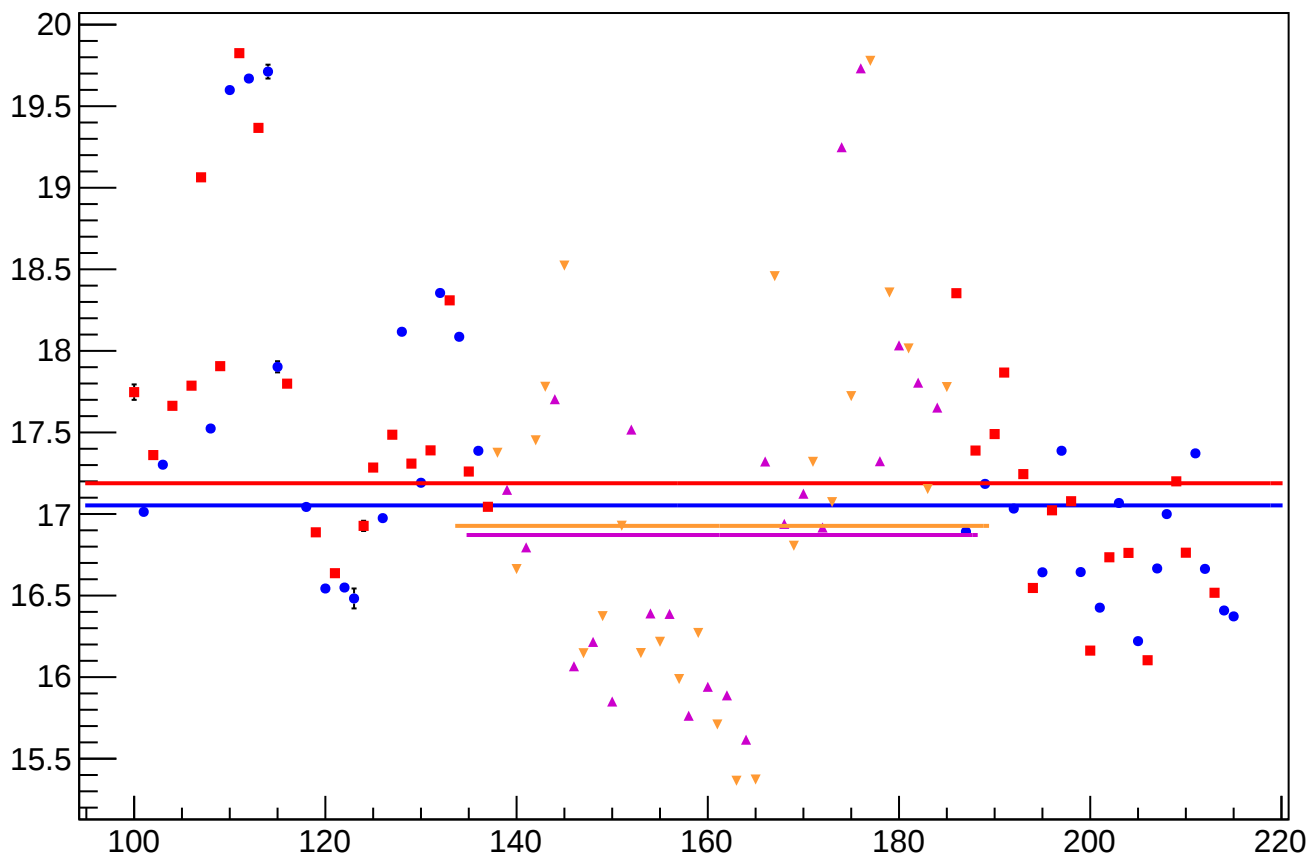
Right: -1.119 ± 2.908 χ^2/NDF : 54.9/65

In: 2.374 ± 2.882 χ^2/NDF : 54.2/54

Out: 2.154 ± 2.858 χ^2/NDF : 56.9/58

All: 2.263 ± 2.029 χ^2/NDF : 111.2/113

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.053+/-0.003 χ^2/NDF : 61294.0/31

Left Out: 16.927+/-0.003 χ^2/NDF :138533.2/24

Right Out: 17.189+/-0.003 χ^2/NDF : 69514.2/33

Left In: 16.871+/-0.003 χ^2/NDF :117993.8/22

Left: 16.900+/-0.002 χ^2/NDF : 256722.4/47

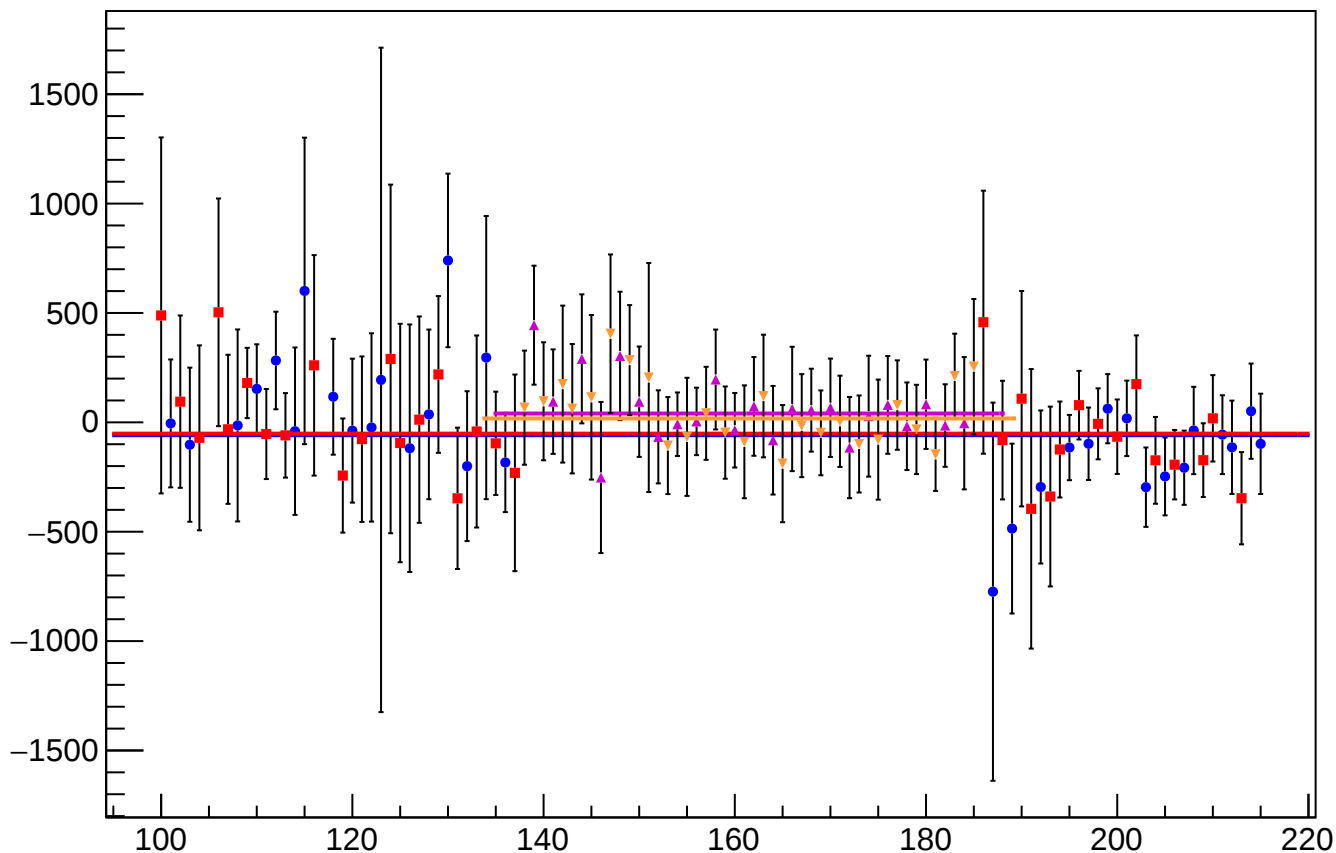
Right: 17.120+/-0.002 χ^2/NDF : 131898.8/65

In: 16.961+/-0.002 χ^2/NDF :181269.8/54

Out: 17.052+/-0.002 χ^2/NDF :212219.3/58

All: 17.007+/-0.001 χ^2/NDF : 394489.0/113

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.675 ± 43.045 $\chi^2/\text{NDF}: 17.1/31$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -51.639 ± 43.565 $\chi^2/\text{NDF}: 13.8/33$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

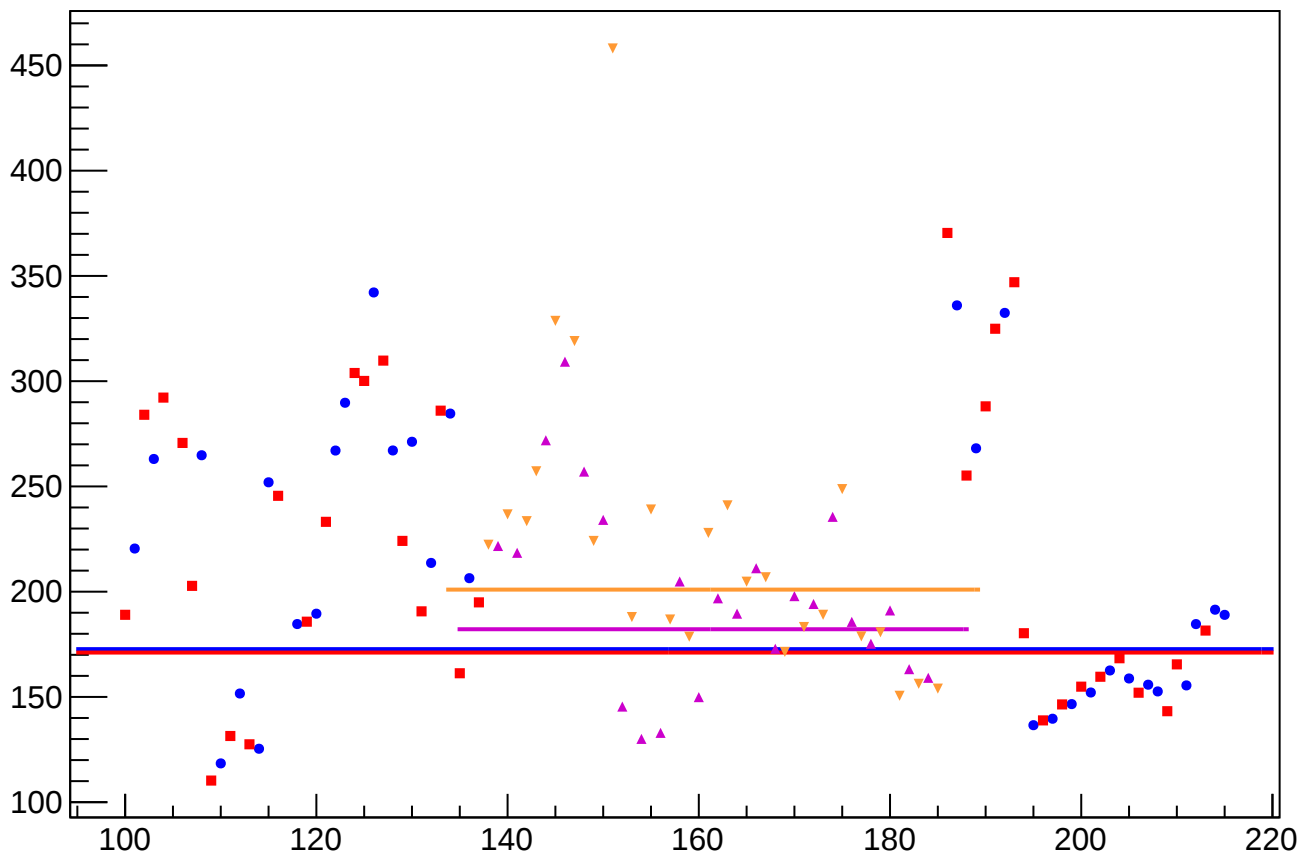
Right: -55.199 ± 30.619 $\chi^2/\text{NDF}: 30.9/65$

In: -12.108 ± 31.330 $\chi^2/\text{NDF}: 26.2/54$

Out: -20.652 ± 32.424 $\chi^2/\text{NDF}: 22.4/58$

All: -16.234 ± 22.531 $\chi^2/\text{NDF}: 48.7/113$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.708 $\pm$ 0.030 χ^2 /NDF: 2157173.1/31

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 171.079 $\pm$ 0.031 χ^2 /NDF: 2779746.7/33

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

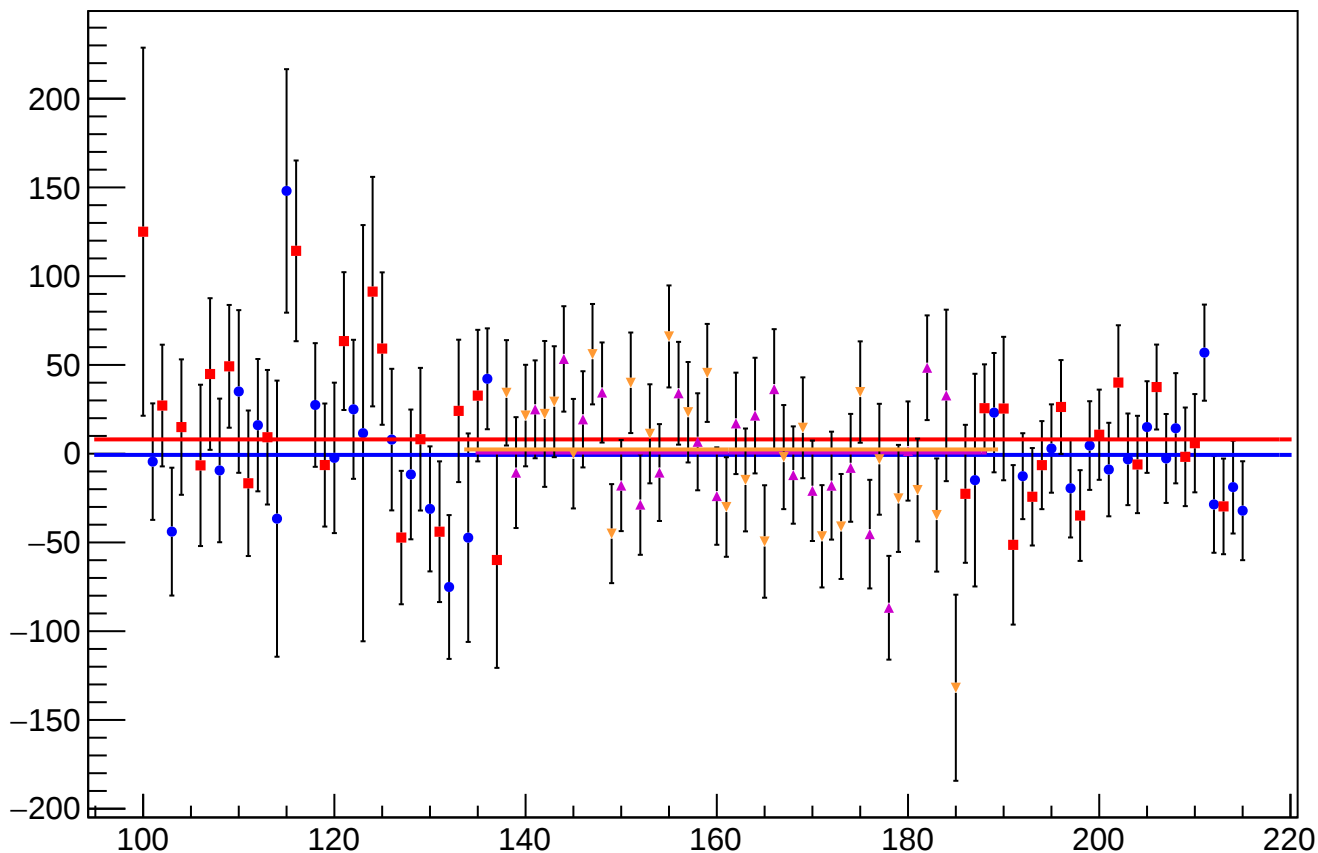
Right: 171.903 $\pm$ 0.022 χ^2 /NDF: 4938334.5/65

In: 177.152 $\pm$ 0.022 χ^2 /NDF:3738425.2/54

Out: 184.419 $\pm$ 0.023 χ^2 /NDF:4927449.4/58

All: 180.661 $\pm$ 0.016 χ^2 /NDF: 8717838.0/113

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.684 ± 5.751 χ^2/NDF : 24.9/31

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: 8.051 ± 5.781 χ^2/NDF : 32.6/33

Left In: 0.641 ± 6.091 χ^2/NDF : 27.3/22

Left: 1.531 ± 4.267 χ^2/NDF : 66.5/47

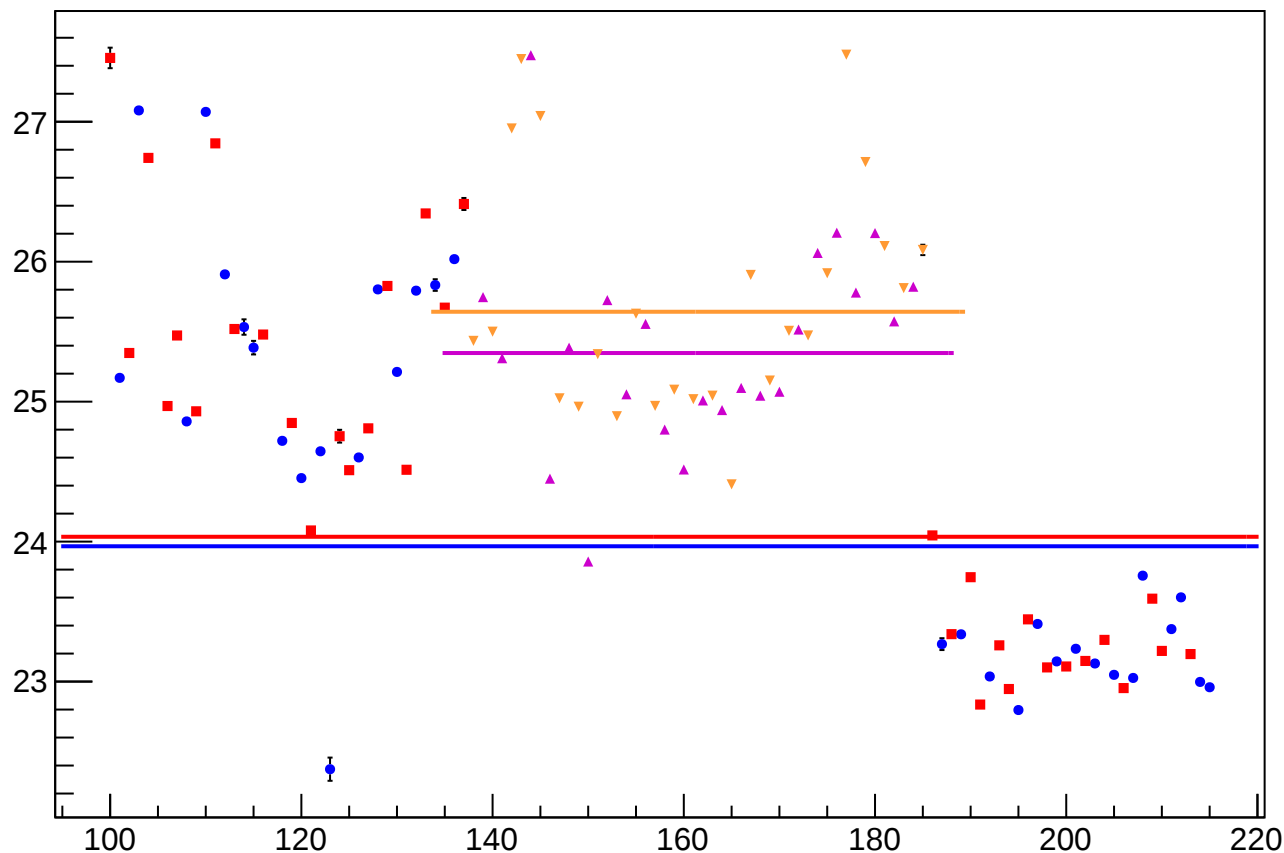
Right: 3.661 ± 4.077 χ^2/NDF : 58.6/65

In: -0.059 ± 4.182 χ^2/NDF : 52.2/54

Out: 5.316 ± 4.156 χ^2/NDF : 72.2/58

All: 2.645 ± 2.948 χ^2/NDF : 125.2/113

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.967 $\pm$ 0.004 χ^2 /NDF: 88711.2/31

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.035 $\pm$ 0.004 χ^2 /NDF: 80135.7/33

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

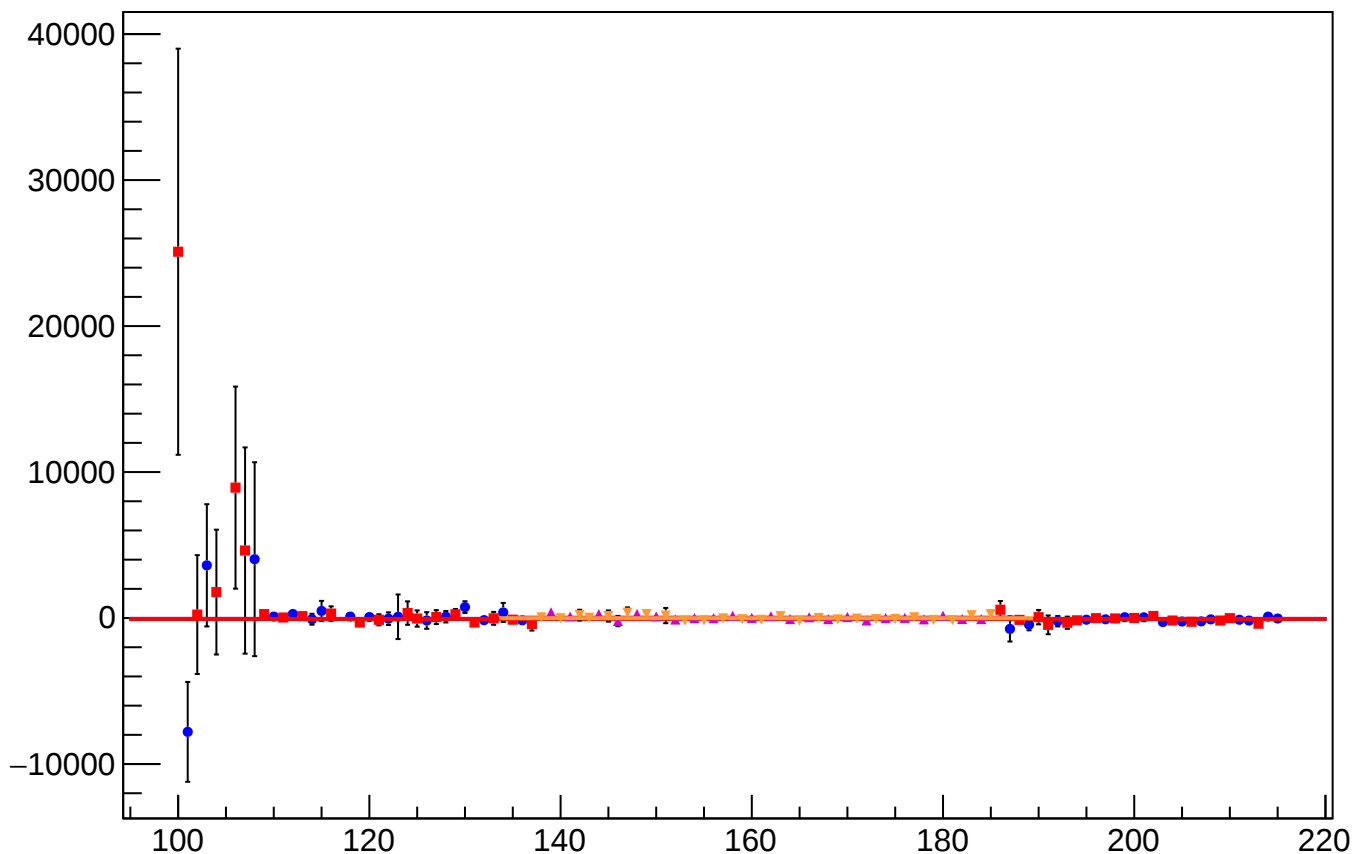
Right: 24.000 $\pm$ 0.003 χ^2 /NDF: 168985.6/65

In: 24.617 $\pm$ 0.003 χ^2 /NDF:172433.8/54

Out: 24.811 $\pm$ 0.003 χ^2 /NDF:189668.8/58

All: 24.715 $\pm$ 0.002 χ^2 /NDF: 364263.7/113

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.860 $\pm$ 44.922 χ^2 /NDF: 22.3/31

Left Out: -11.432 $\pm$ 48.263 χ^2 /NDF:8.0/24

Right Out: -62.231 $\pm$ 46.200 χ^2 /NDF: 20.6/33

Left In: 27.098 $\pm$ 45.999 χ^2 /NDF:7.2/22

Left: 8.758 $\pm$ 33.298 χ^2 /NDF: 15.5/47

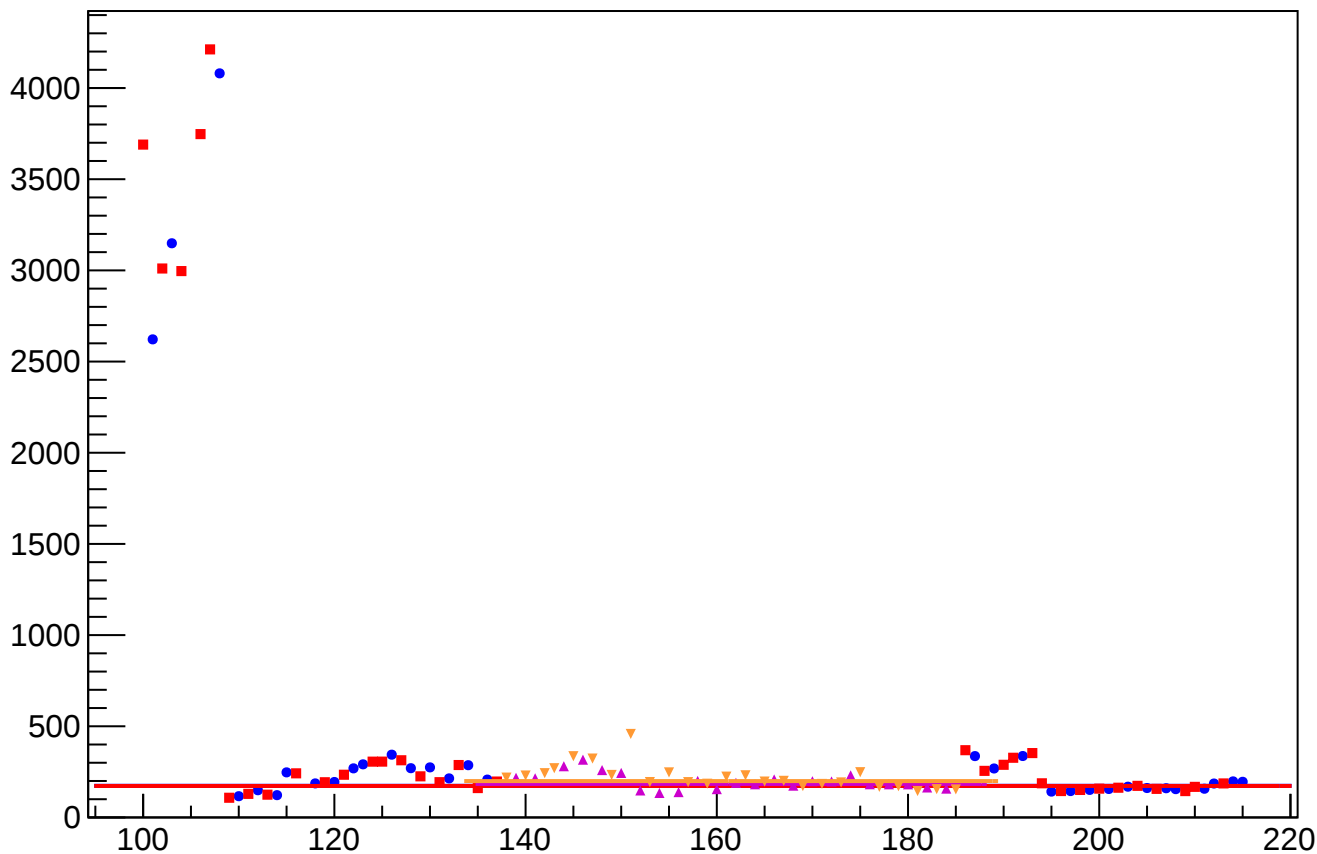
Right: -59.984 $\pm$ 32.207 χ^2 /NDF: 42.9/65

In: -16.386 $\pm$ 32.139 χ^2 /NDF:31.2/54

Out: -37.940 $\pm$ 33.374 χ^2 /NDF:29.2/58

All: -26.757 $\pm$ 23.150 χ^2 /NDF: 60.6/113

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.605+/-0.032 χ^2/NDF : 4569533.0/31

Left Out: 199.438+/-0.034 χ^2/NDF :1877848.7/24

Right Out: 172.719+/-0.033 χ^2/NDF : 5402238.0/33

Left In: 183.805+/-0.033 χ^2/NDF :1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

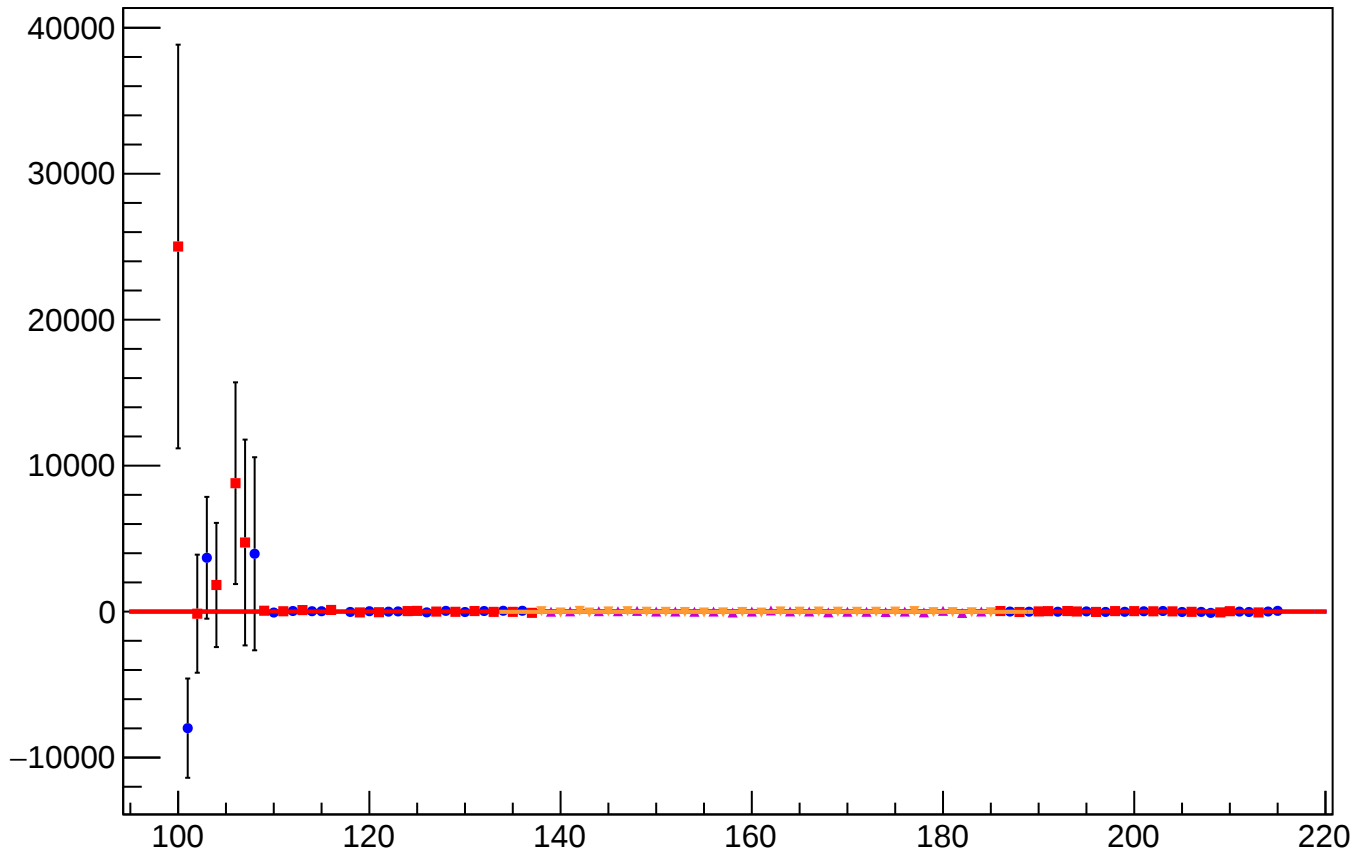
Right: 173.174+/-0.023 χ^2/NDF : 9972148.8/65

In: 178.584+/-0.023 χ^2/NDF :6032740.5/54

Out: 185.495+/-0.024 χ^2/NDF :7599956.1/58

All: 181.910+/-0.016 χ^2/NDF : 13677196.1/11

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.890 ± 6.899 $\chi^2/\text{NDF}: 32.5/31$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 5.536 ± 7.033 $\chi^2/\text{NDF}: 38.1/33$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

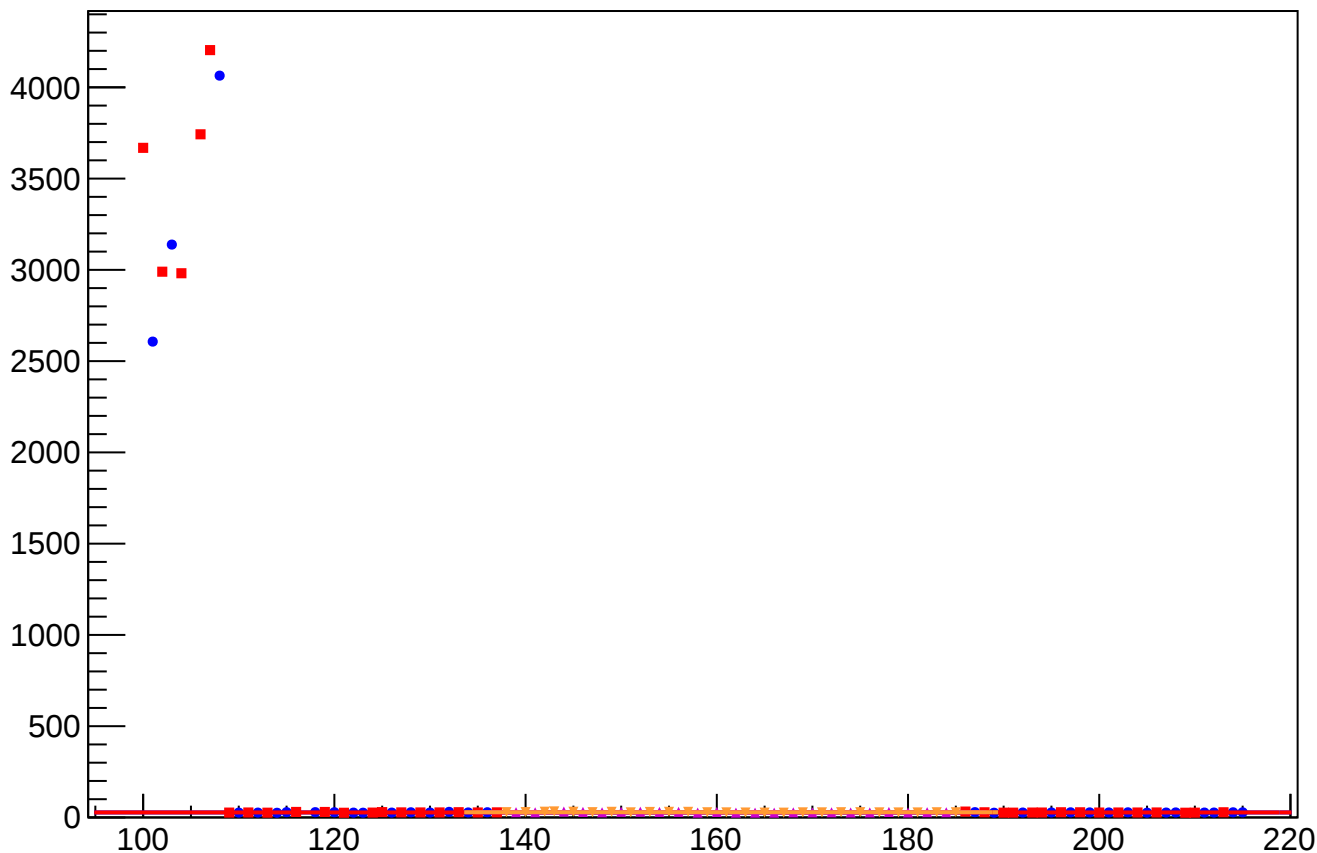
Right: 3.168 ± 4.925 $\chi^2/\text{NDF}: 70.9/65$

In: 1.078 ± 4.882 $\chi^2/\text{NDF}: 64.5/54$

Out: -6.857 ± 4.852 $\chi^2/\text{NDF}: 65.8/58$

All: -2.913 ± 3.441 $\chi^2/\text{NDF}: 131.7/113$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.495+/-0.005 χ^2/NDF : 3043732.5/31

Left Out: 28.694+/-0.005 χ^2/NDF :110466.9/24

Right Out: 27.471+/-0.005 χ^2/NDF : 3513783.2/33

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

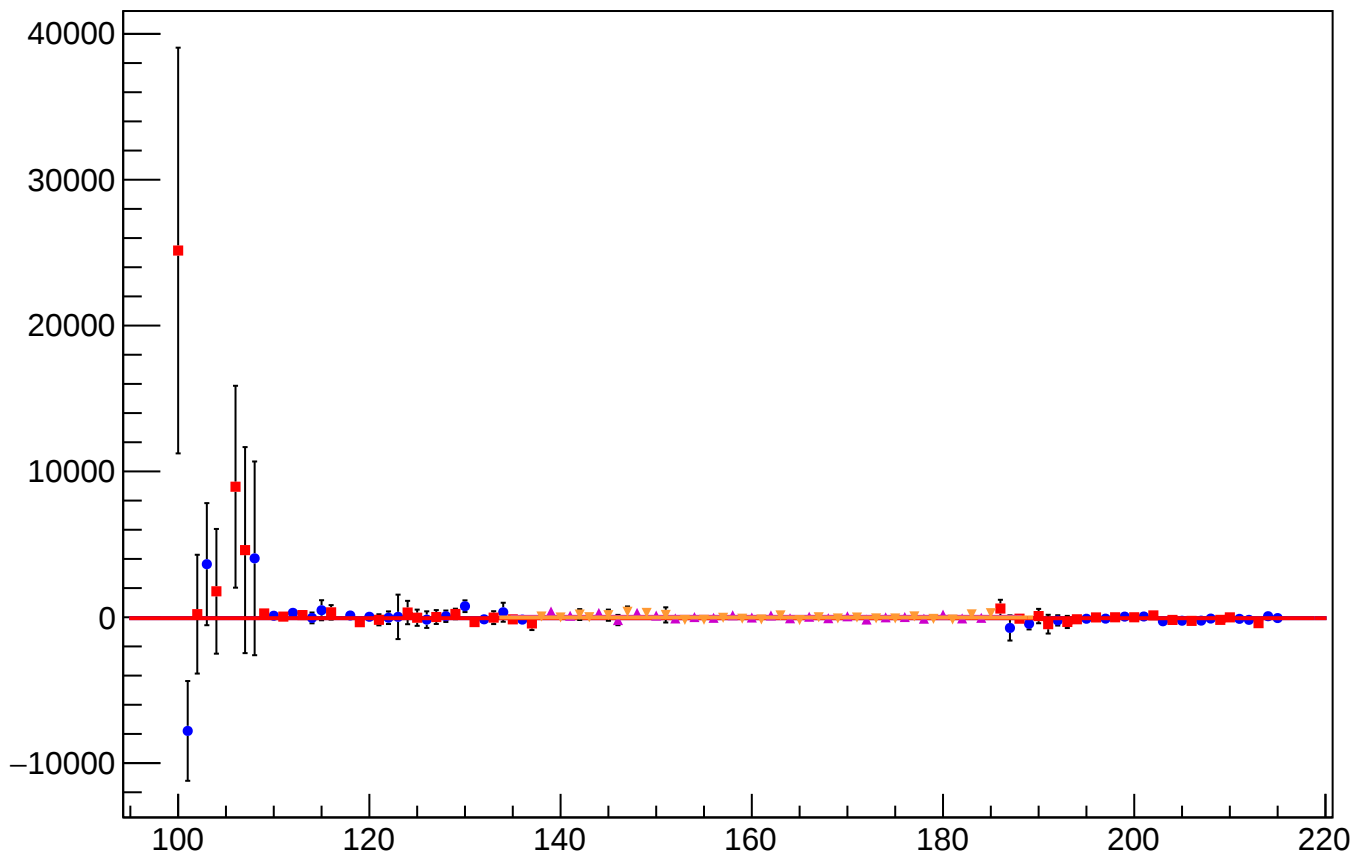
Right: 27.483+/-0.003 χ^2/NDF : 6557528.0/65

In: 28.085+/-0.003 χ^2/NDF :3196828.1/54

Out: 28.112+/-0.003 χ^2/NDF :3655926.9/58

All: 28.099+/-0.002 χ^2/NDF : 6852784.1/113

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.576 ± 44.786 χ^2/NDF : 22.5/31

Left Out: -13.878 ± 48.155 χ^2/NDF : 8.8/24

Right Out: -64.714 ± 46.066 χ^2/NDF : 21.5/33

Left In: 27.286 ± 45.907 χ^2/NDF : 7.5/22

Left: 7.688 ± 33.228 χ^2/NDF : 16.7/47

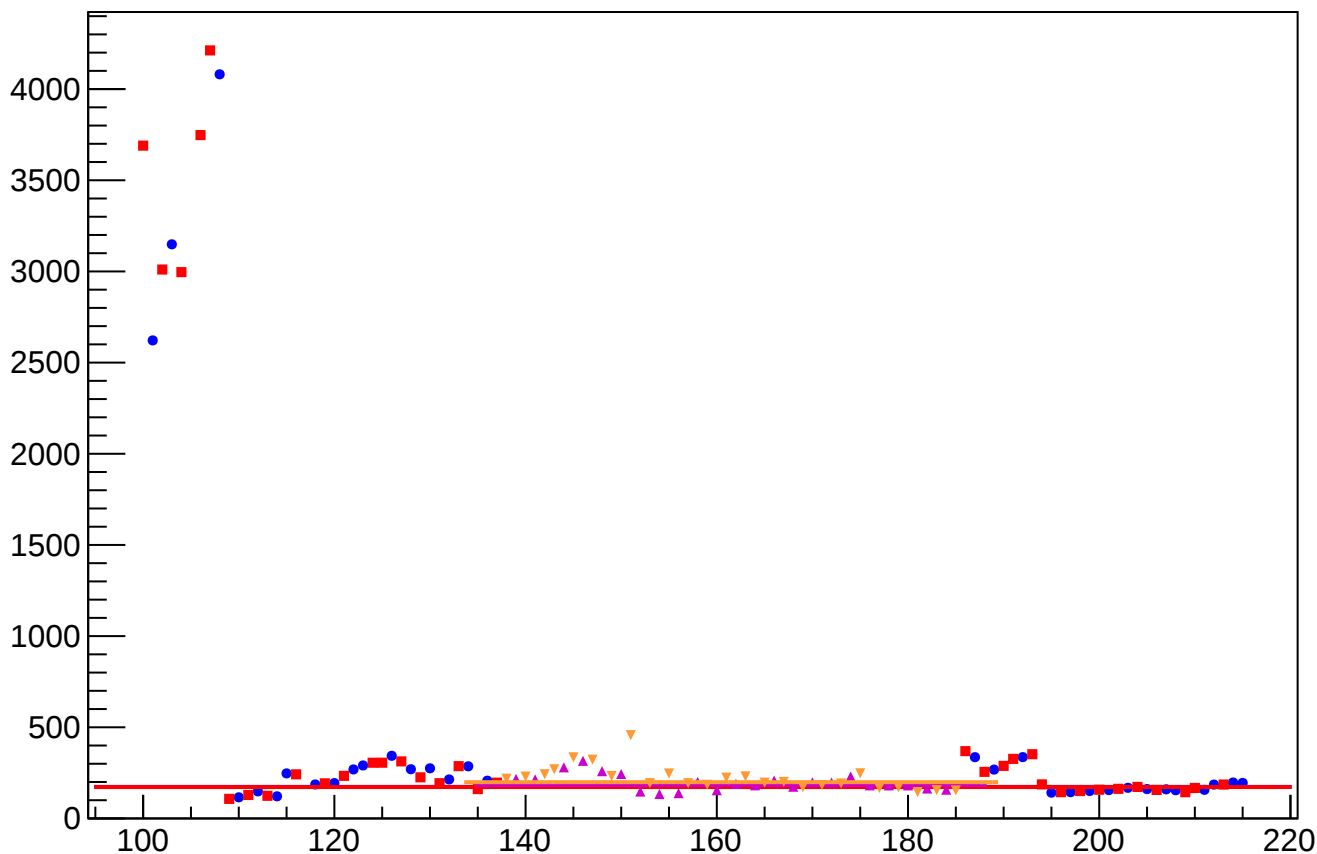
Right: -61.558 ± 32.112 χ^2/NDF : 44.0/65

In: -16.706 ± 32.057 χ^2/NDF : 31.7/54

Out: -40.422 ± 33.288 χ^2/NDF : 30.9/58

All: -28.118 ± 23.091 χ^2/NDF : 62.9/113

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.039+/-0.032 χ^2/NDF : 4583041.6/31

Left Out: 198.997+/-0.034 χ^2/NDF : 1877636.0/24

Right Out: 172.167+/-0.033 χ^2/NDF : 5420056.4/33

Left In: 183.442+/-0.032 χ^2/NDF : 1412341.8/22

Left: 190.847+/-0.023 χ^2/NDF : 3399302.2/47

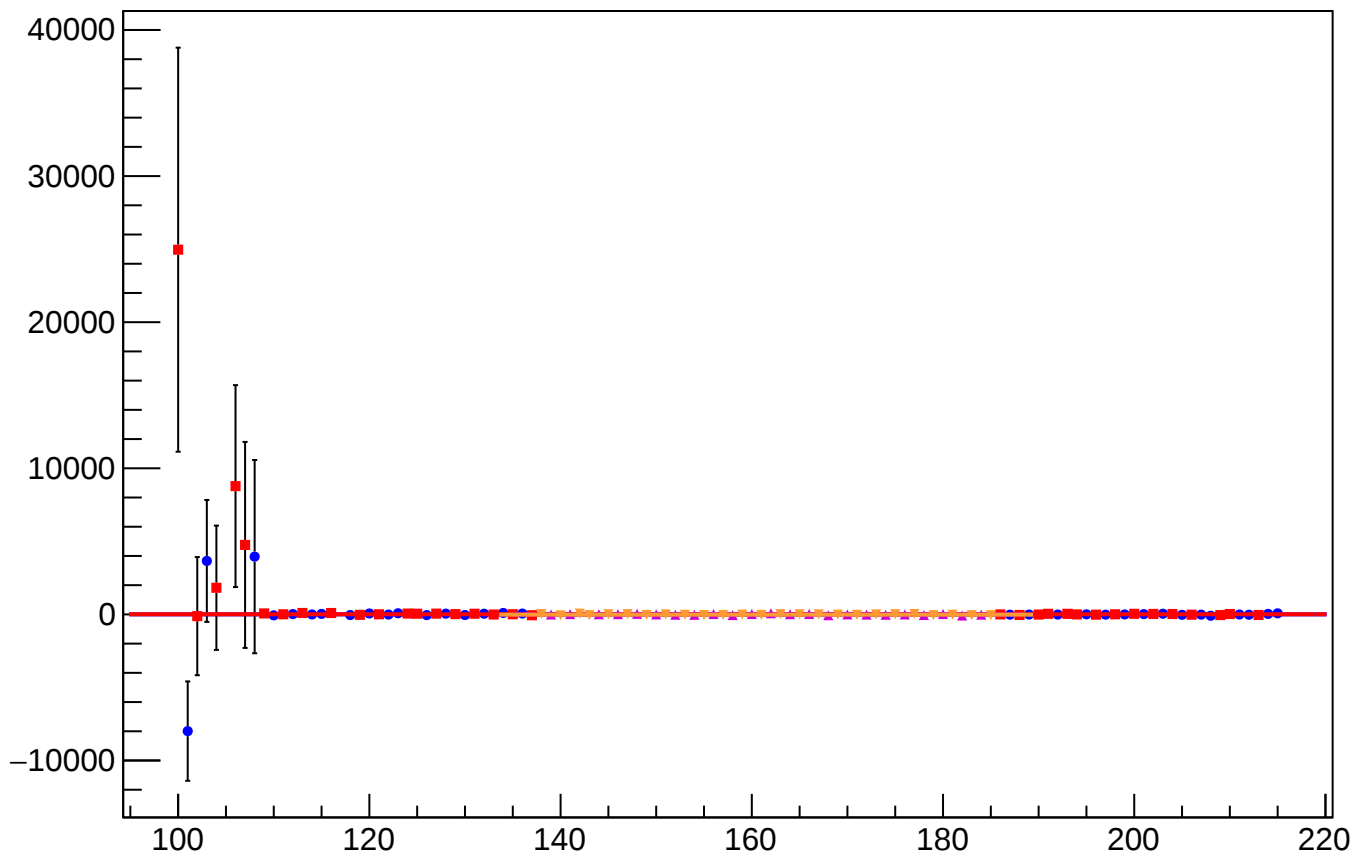
Right: 172.616+/-0.023 χ^2/NDF : 10003466.1/65

In: 178.112+/-0.023 χ^2/NDF : 6047999.9/54

Out: 184.987+/-0.024 χ^2/NDF : 7621850.3/58

All: 181.420+/-0.016 χ^2/NDF : 13714120.2/11

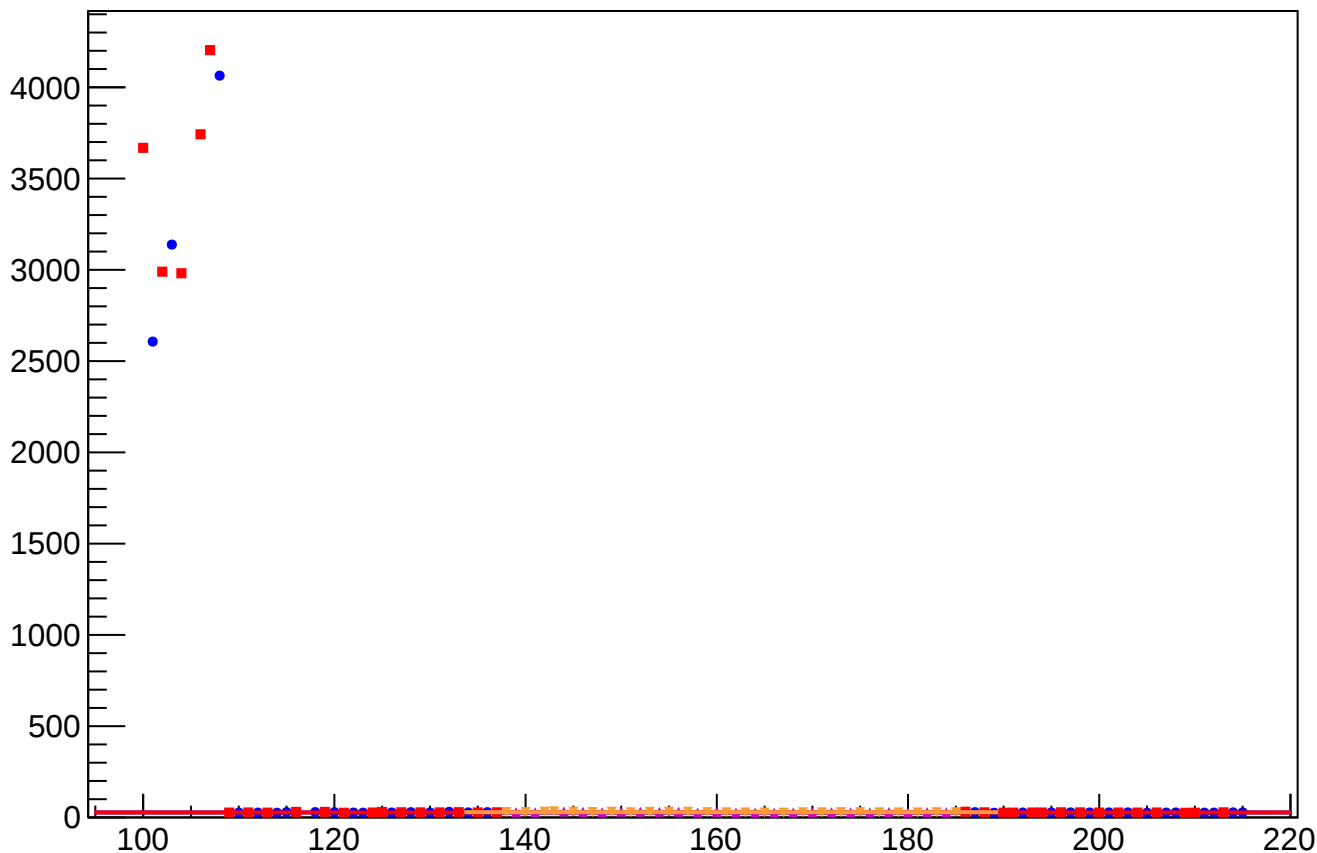
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.641 ± 6.863 $\chi^2/\text{NDF}: 40.7/31$
 Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$
 Right Out: 9.140 ± 7.010 $\chi^2/\text{NDF}: 32.7/33$
 Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$
 Right: 5.311 ± 4.904 $\chi^2/\text{NDF}: 73.9/65$
 In: 0.583 ± 4.879 $\chi^2/\text{NDF}: 66.9/54$
 Out: -3.848 ± 4.856 $\chi^2/\text{NDF}: 55.8/58$
 All: -1.643 ± 3.442 $\chi^2/\text{NDF}: 123.0/113$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.345 $\pm$ 0.005 χ^2 /NDF: 3050708.0/31

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 27.381 $\pm$ 0.005 χ^2 /NDF: 3517364.9/33

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

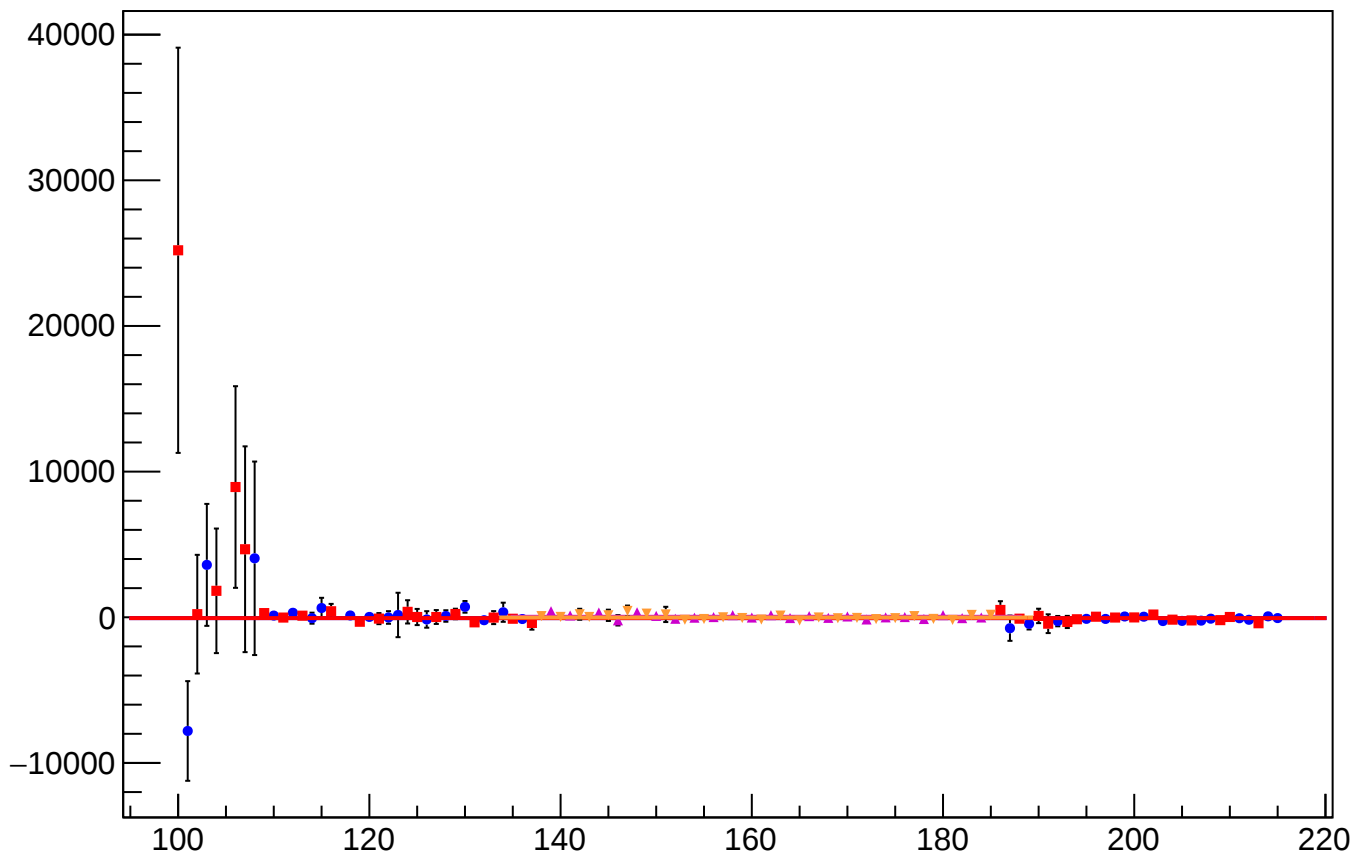
Right: 27.363 $\pm$ 0.003 χ^2 /NDF: 6568100.2/65

In: 28.063 $\pm$ 0.003 χ^2 /NDF:3223303.1/54

Out: 28.127 $\pm$ 0.003 χ^2 /NDF:3682998.5/58

All: 28.095 $\pm$ 0.002 χ^2 /NDF: 6906470.9/113

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.524 $\pm$ 45.078 χ^2 /NDF: 22.6/31

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF: 8.1/24

Right Out: -57.336 $\pm$ 46.398 χ^2 /NDF: 21.0/33

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

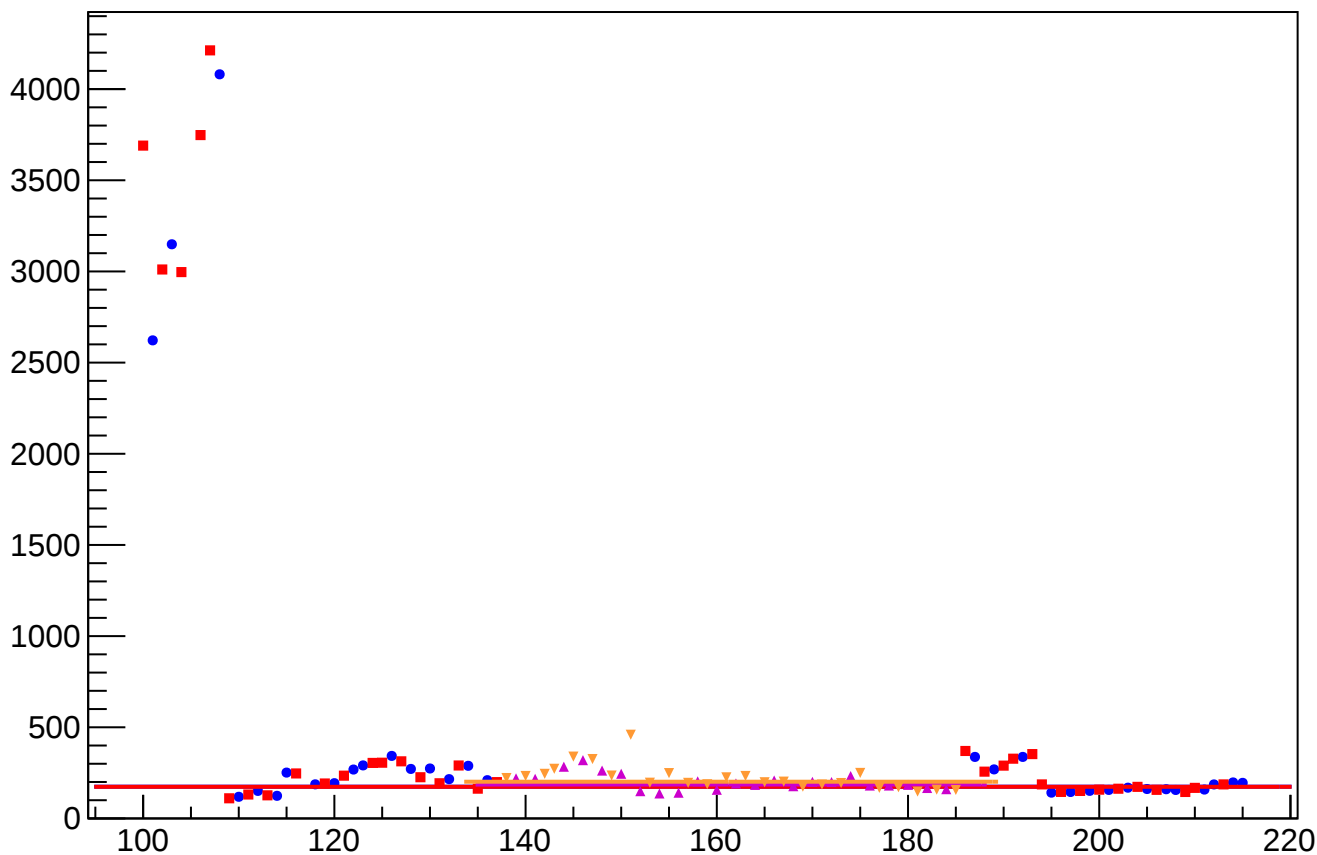
Right: -57.433 $\pm$ 32.332 χ^2 /NDF: 43.6/65

In: -14.388 $\pm$ 32.360 χ^2 /NDF: 32.3/54

Out: -36.716 $\pm$ 33.604 χ^2 /NDF: 29.6/58

All: -25.131 $\pm$ 23.310 χ^2 /NDF: 62.1/113

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.268+/-0.032 χ^2/NDF : 4547372.5/31

Left Out: 201.503+/-0.034 χ^2/NDF :1854905.1/24

Right Out: 173.608+/-0.033 χ^2/NDF : 5360354.9/33

Left In: 185.878+/-0.033 χ^2/NDF :1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

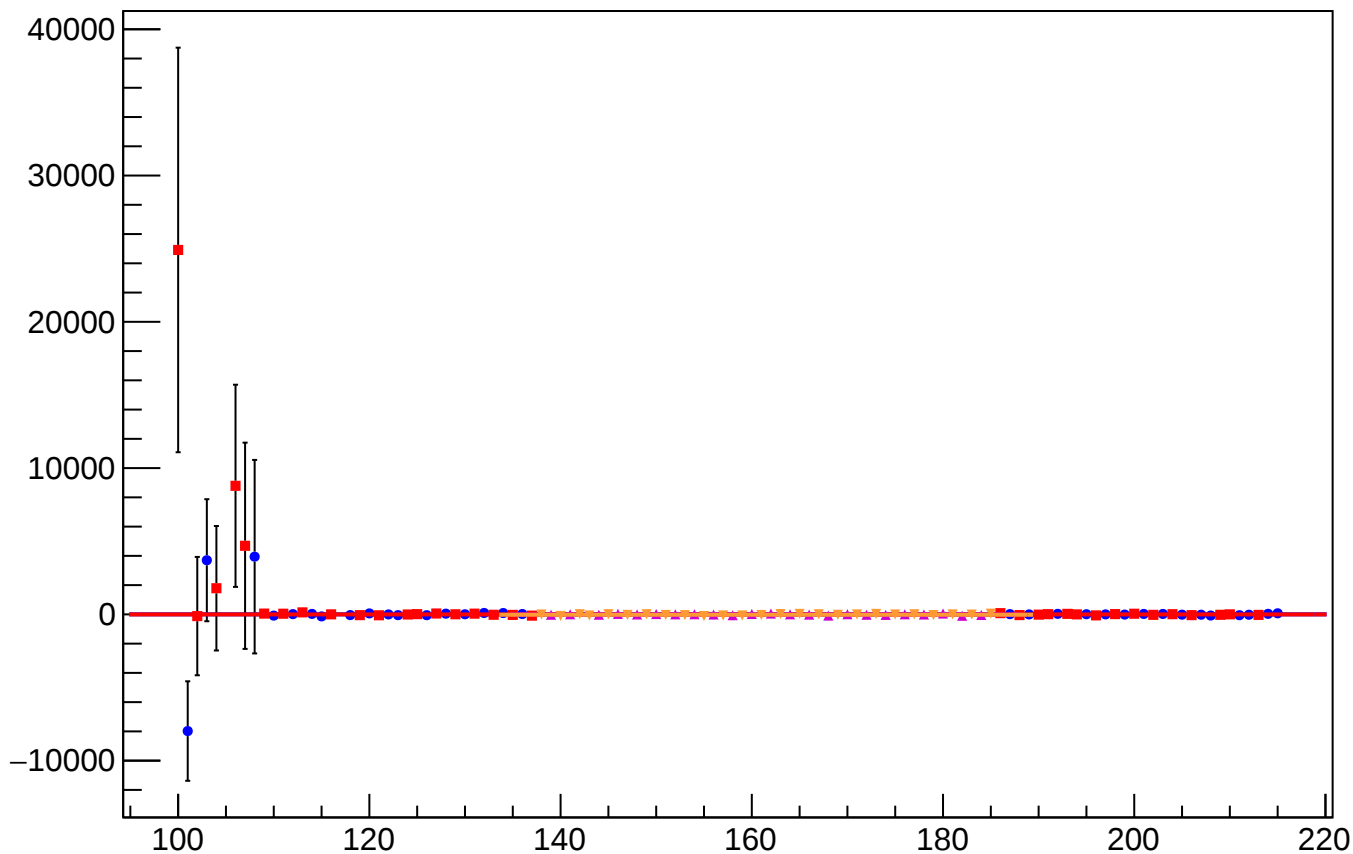
Right: 173.948+/-0.023 χ^2/NDF : 9907935.6/65

In: 179.895+/-0.023 χ^2/NDF :5992551.9/54

Out: 186.871+/-0.024 χ^2/NDF :7558956.7/58

All: 183.251+/-0.016 χ^2/NDF : 13596219.5/117

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.389 ± 8.372 $\chi^2/\text{NDF}: 33.6/31$

Left Out: -24.144 ± 8.076 $\chi^2/\text{NDF}: 24.9/24$

Right Out: -2.417 ± 8.556 $\chi^2/\text{NDF}: 35.6/33$

Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$

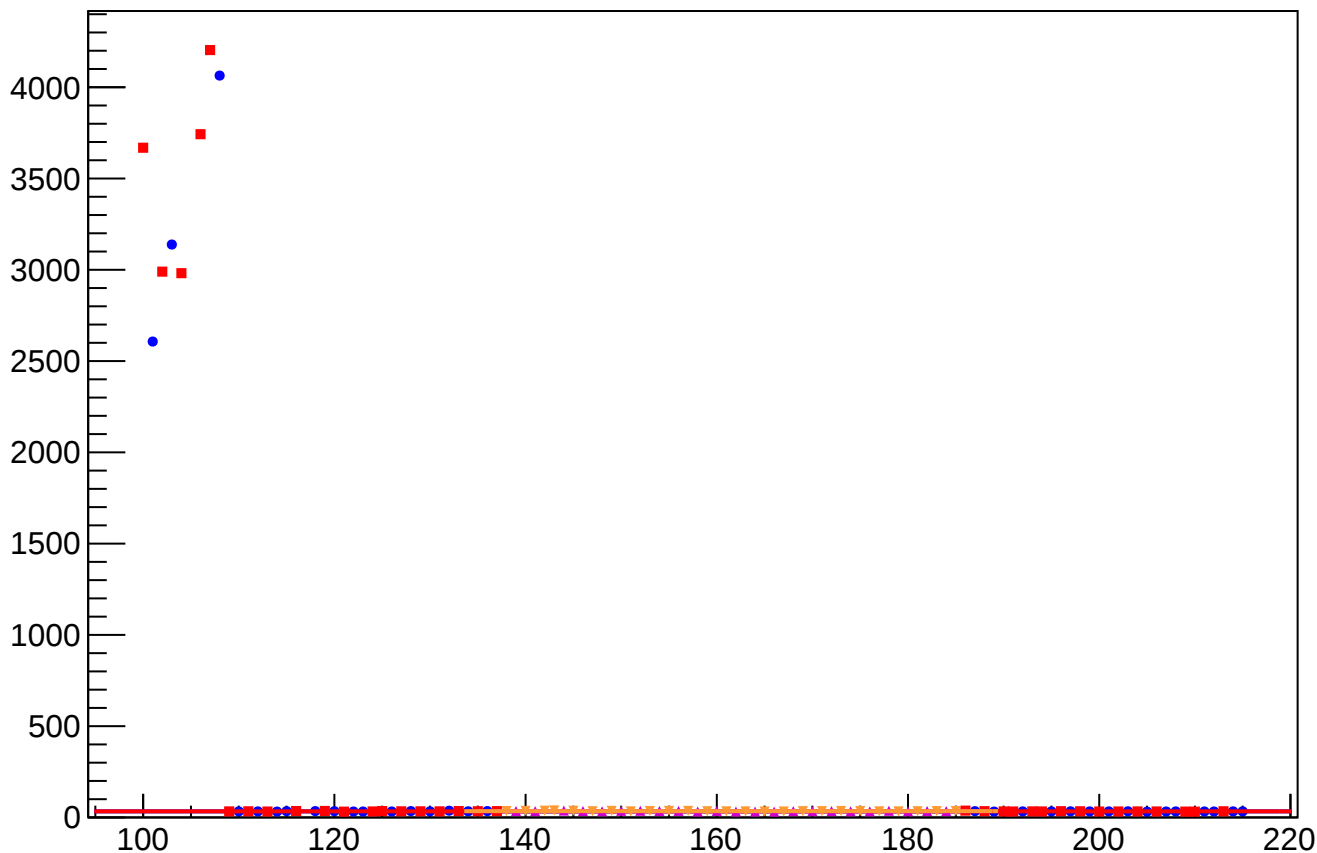
Right: 0.038 ± 5.984 $\chi^2/\text{NDF}: 69.4/65$

In: -1.784 ± 5.909 $\chi^2/\text{NDF}: 55.1/54$

Out: -13.907 ± 5.873 $\chi^2/\text{NDF}: 63.9/58$

All: -7.882 ± 4.165 $\chi^2/\text{NDF}: 121.1/113$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.381 $\pm$ 0.006 χ^2 /NDF: 3020188.2/31

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.467 $\pm$ 0.006 χ^2 /NDF: 3474183.2/33

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

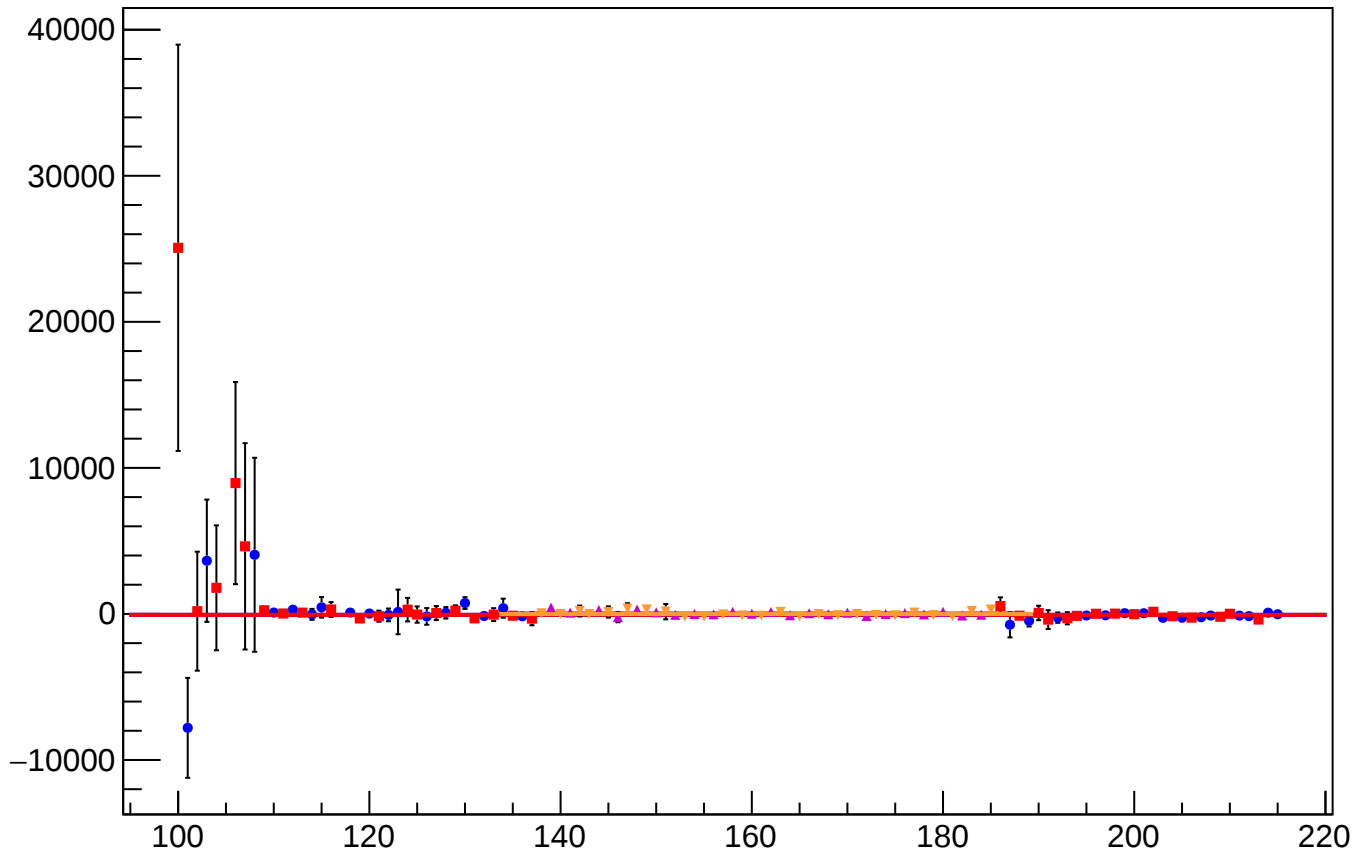
Right: 33.423 $\pm$ 0.004 χ^2 /NDF: 6494474.0/65

In: 34.034 $\pm$ 0.004 χ^2 /NDF: 3104254.4/54

Out: 34.075 $\pm$ 0.004 χ^2 /NDF: 3551182.7/58

All: 34.055 $\pm$ 0.003 χ^2 /NDF: 6655486.5/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.018 ± 44.953 χ^2/NDF : 22.3/31

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -61.649 ± 46.228 χ^2/NDF : 19.4/33

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

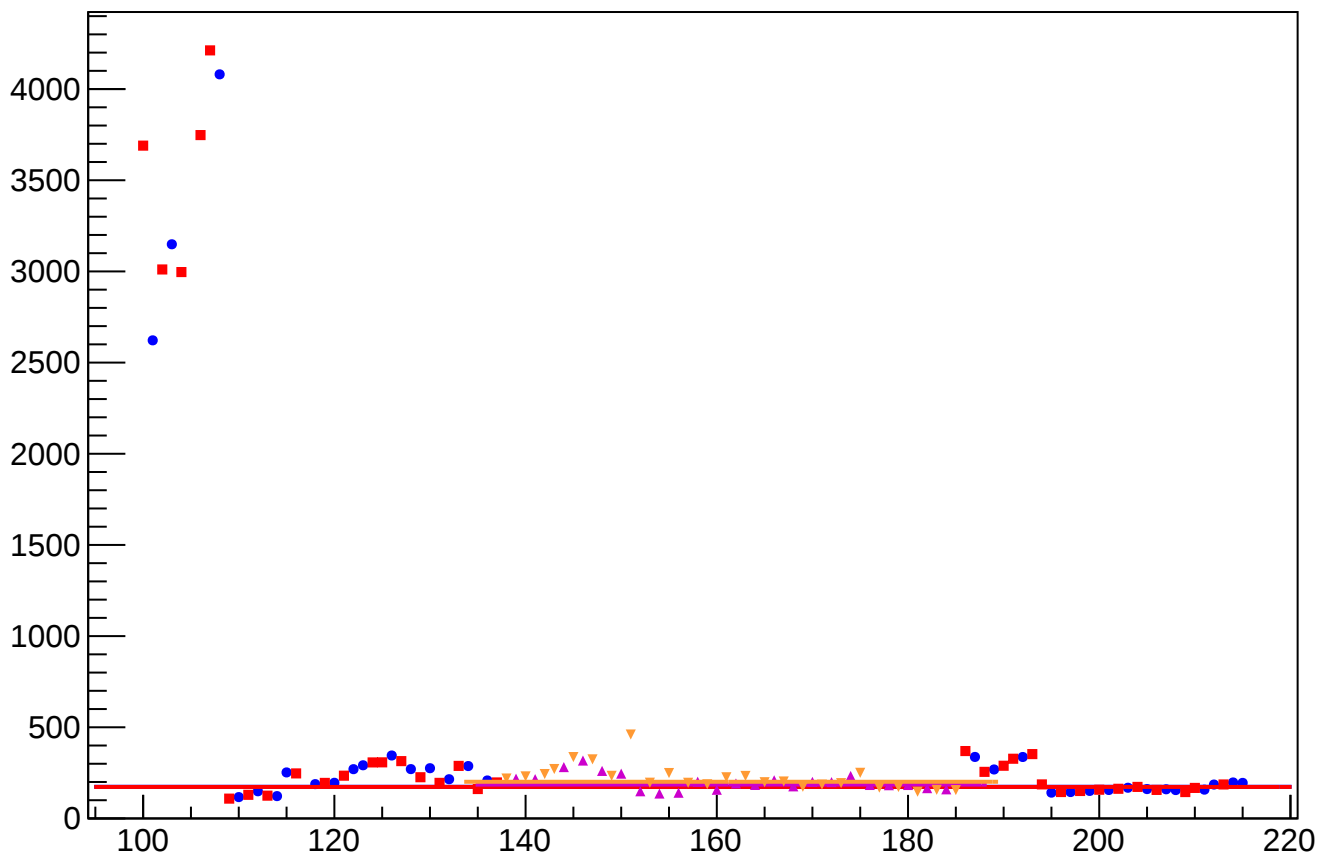
Right: -61.325 ± 32.228 χ^2/NDF : 41.7/65

In: -14.562 ± 32.293 χ^2/NDF : 31.6/54

Out: -35.990 ± 33.516 χ^2/NDF : 28.8/58

All: -24.878 ± 23.255 χ^2/NDF : 60.7/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.703 $\pm$ 0.032 χ^2 /NDF: 4577343.3/31

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 172.817 $\pm$ 0.033 χ^2 /NDF: 5408420.5/33

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

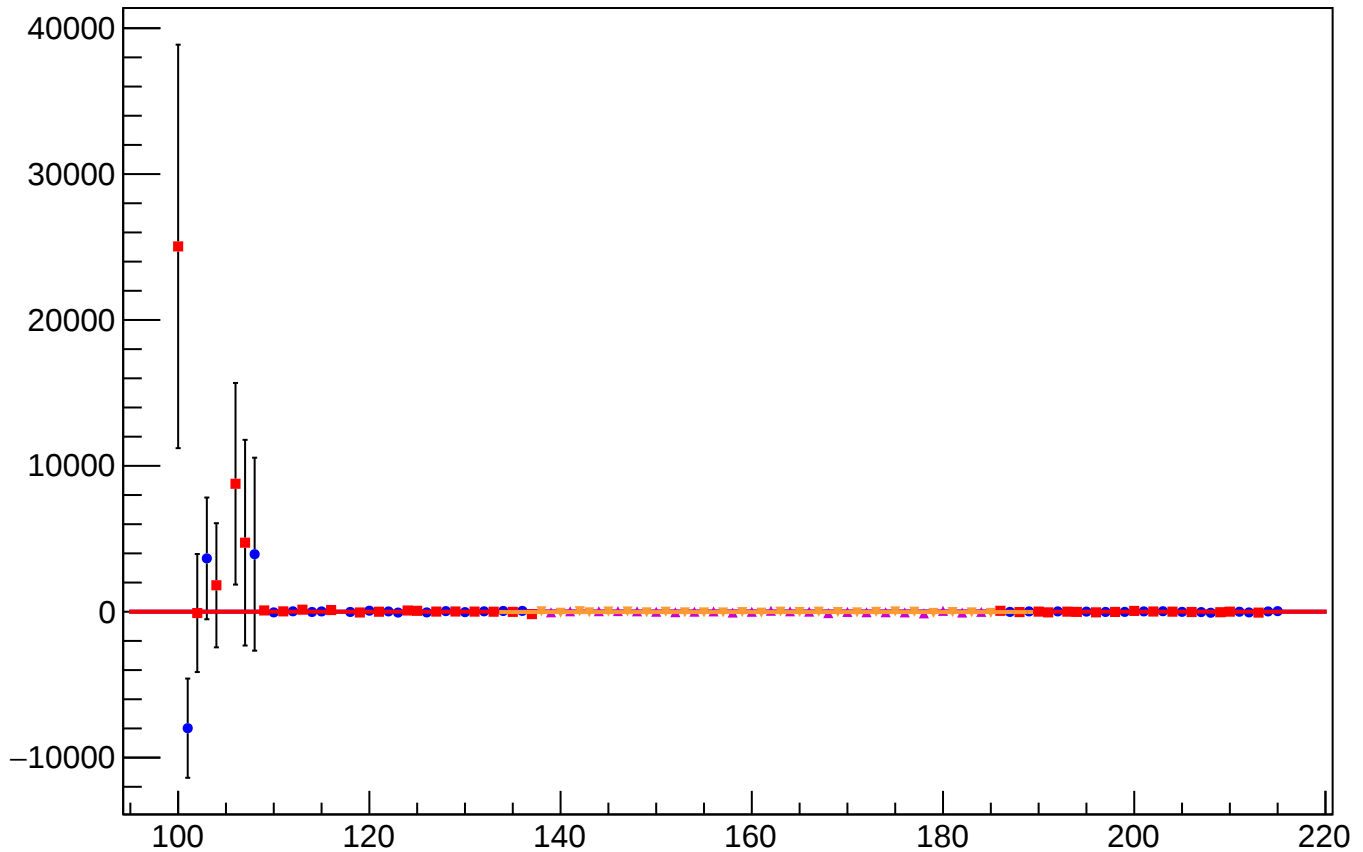
Right: 173.273 $\pm$ 0.023 χ^2 /NDF: 9986141.5/65

In: 179.474 $\pm$ 0.023 χ^2 /NDF:6016858.4/54

Out: 186.280 $\pm$ 0.024 χ^2 /NDF:7614458.6/58

All: 182.751 $\pm$ 0.016 χ^2 /NDF: 13674090.7/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.627+/-7.576 χ^2/NDF : 25.4/31

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 2.241+/-7.745 χ^2/NDF : 41.5/33

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

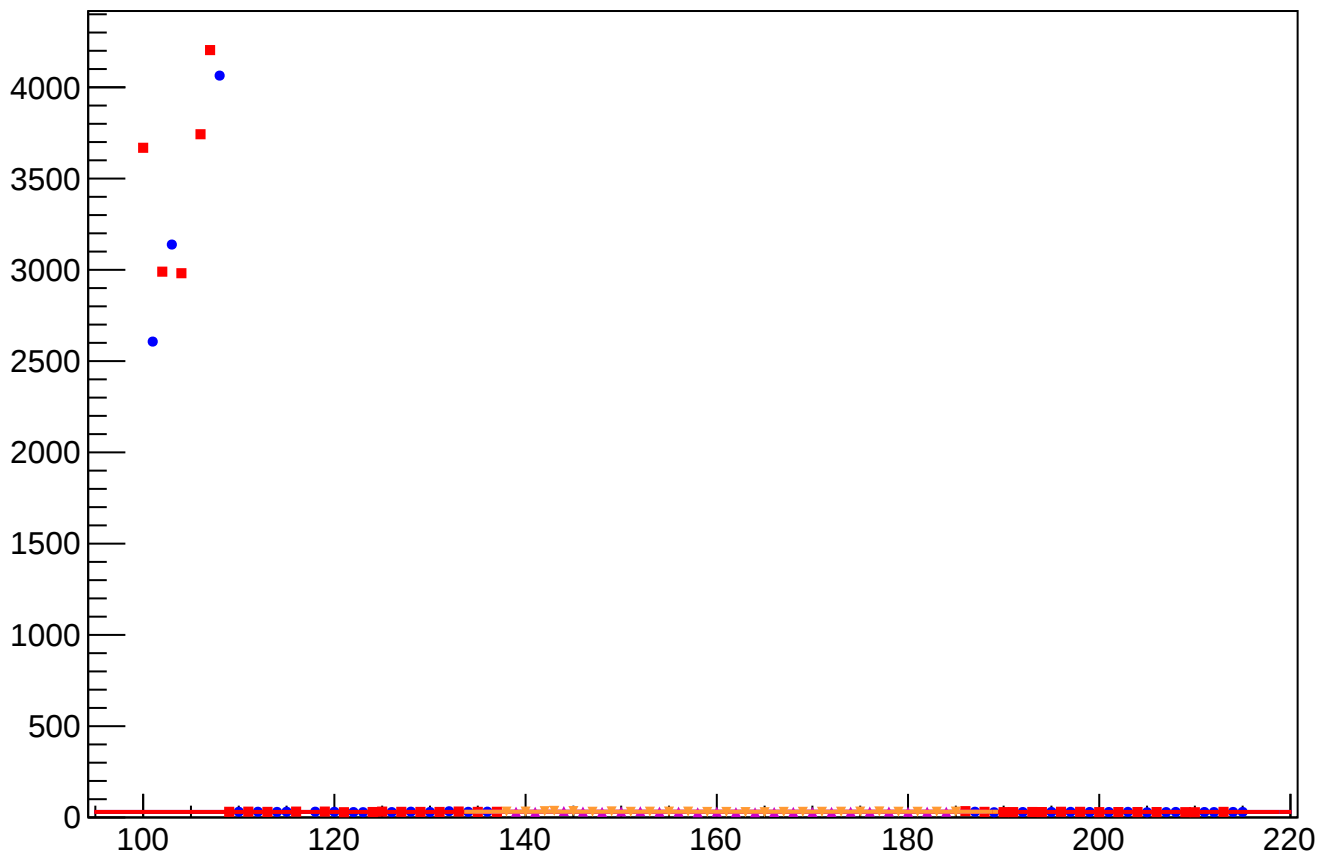
Right: 3.460+/-5.416 χ^2/NDF : 66.9/65

In: -0.878+/-5.357 χ^2/NDF :65.1/54

Out: -11.204+/-5.332 χ^2/NDF :65.5/58

All: -6.066+/-3.779 χ^2/NDF : 132.5/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.196 $\pm$ 0.005 χ^2 /NDF: 3038432.0/31

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.268 $\pm$ 0.005 χ^2 /NDF: 3492211.6/33

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

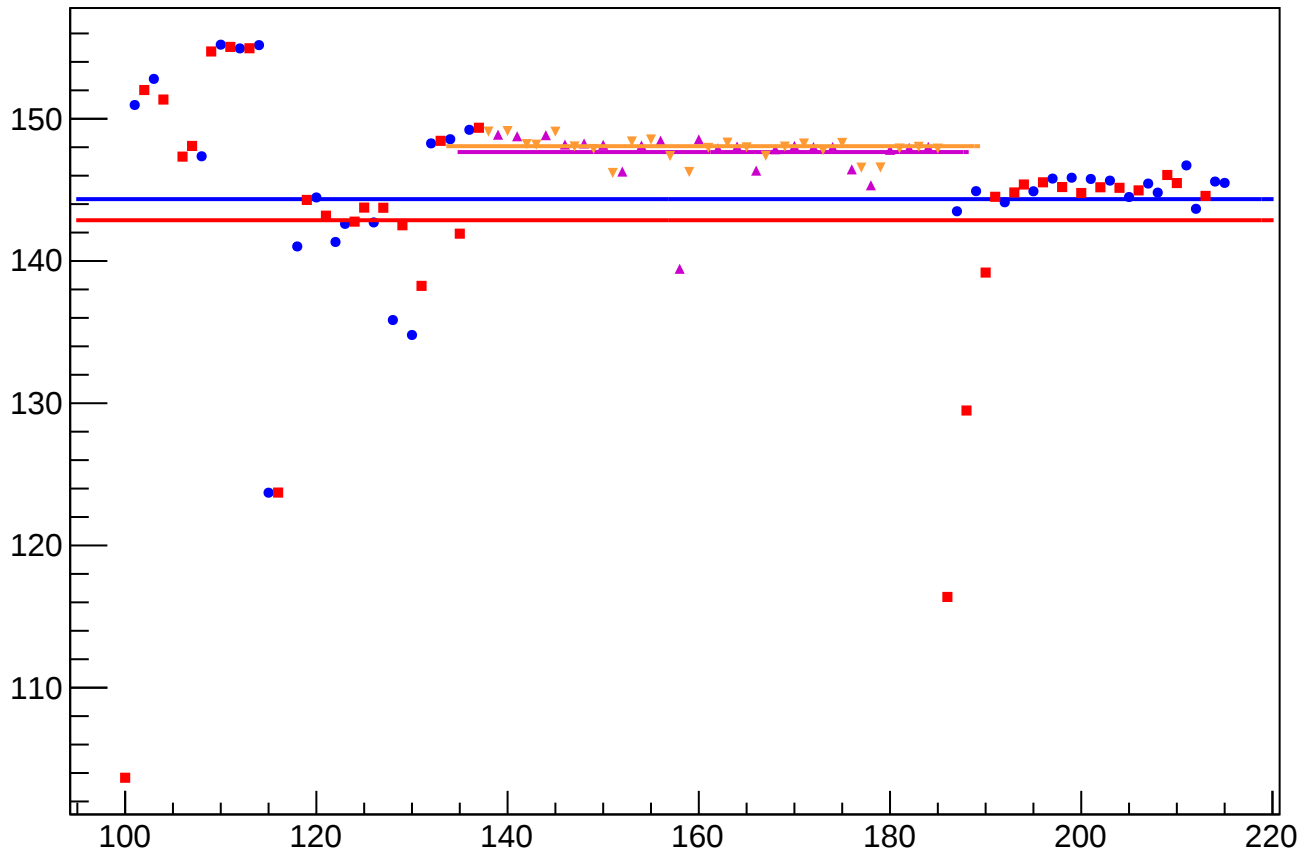
Right: 30.231 $\pm$ 0.004 χ^2 /NDF: 6530732.3/65

In: 30.836 $\pm$ 0.004 χ^2 /NDF:3154752.0/54

Out: 30.910 $\pm$ 0.004 χ^2 /NDF:3600275.1/58

All: 30.873 $\pm$ 0.003 χ^2 /NDF: 6755221.0/113

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.350+/-0.000 χ^2/NDF : 3506504036.5/31

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.868+/-0.000 χ^2/NDF : 7450633308.5/33

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

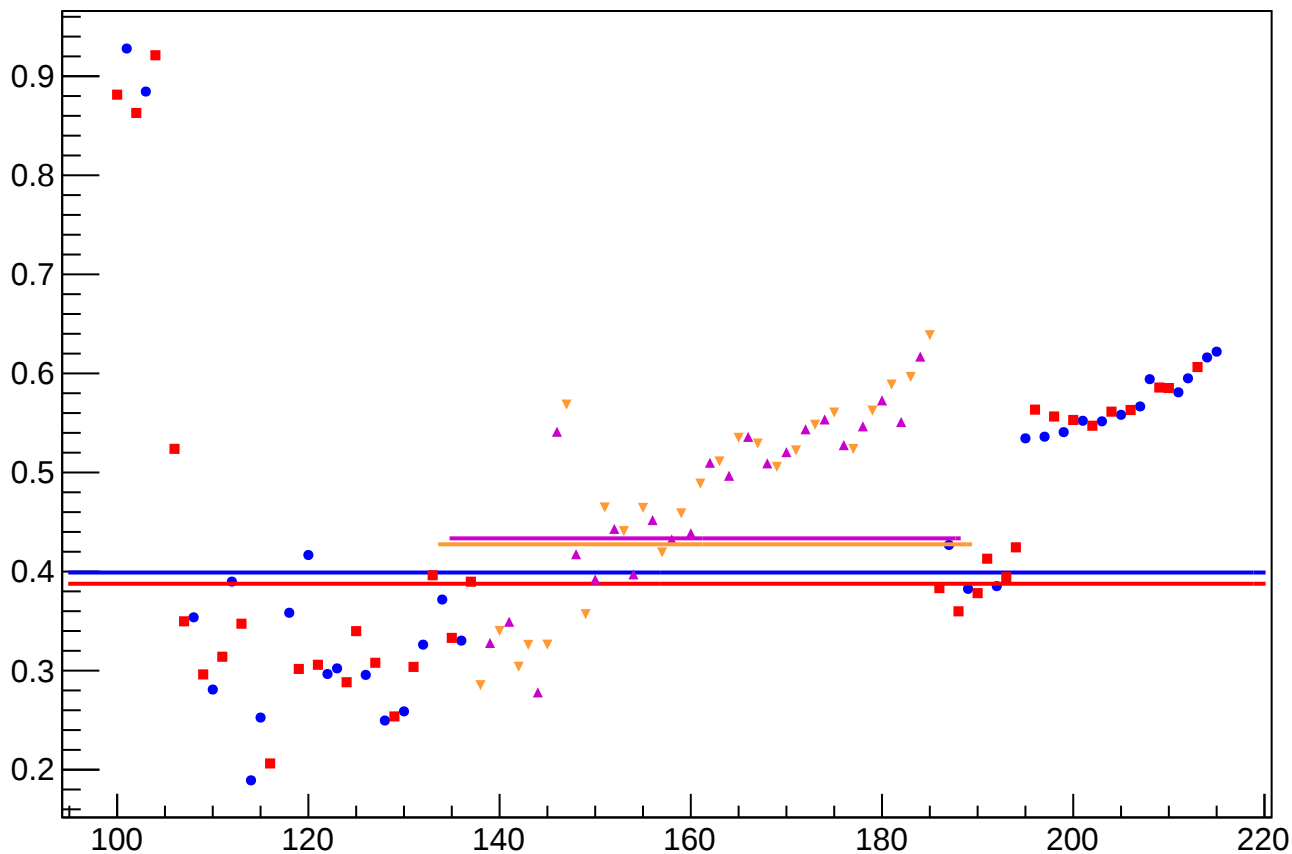
Right: 143.585+/-0.000 χ^2/NDF : 11062210182.3/65

In: 145.943+/-0.000 χ^2/NDF : 4338468485.6/54

Out: 145.386+/-0.000 χ^2/NDF : 8812194456.1/58

All: 145.655+/-0.000 χ^2/NDF : 13179330595.1/118

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 3606299.3/31

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 3075457.2/33

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

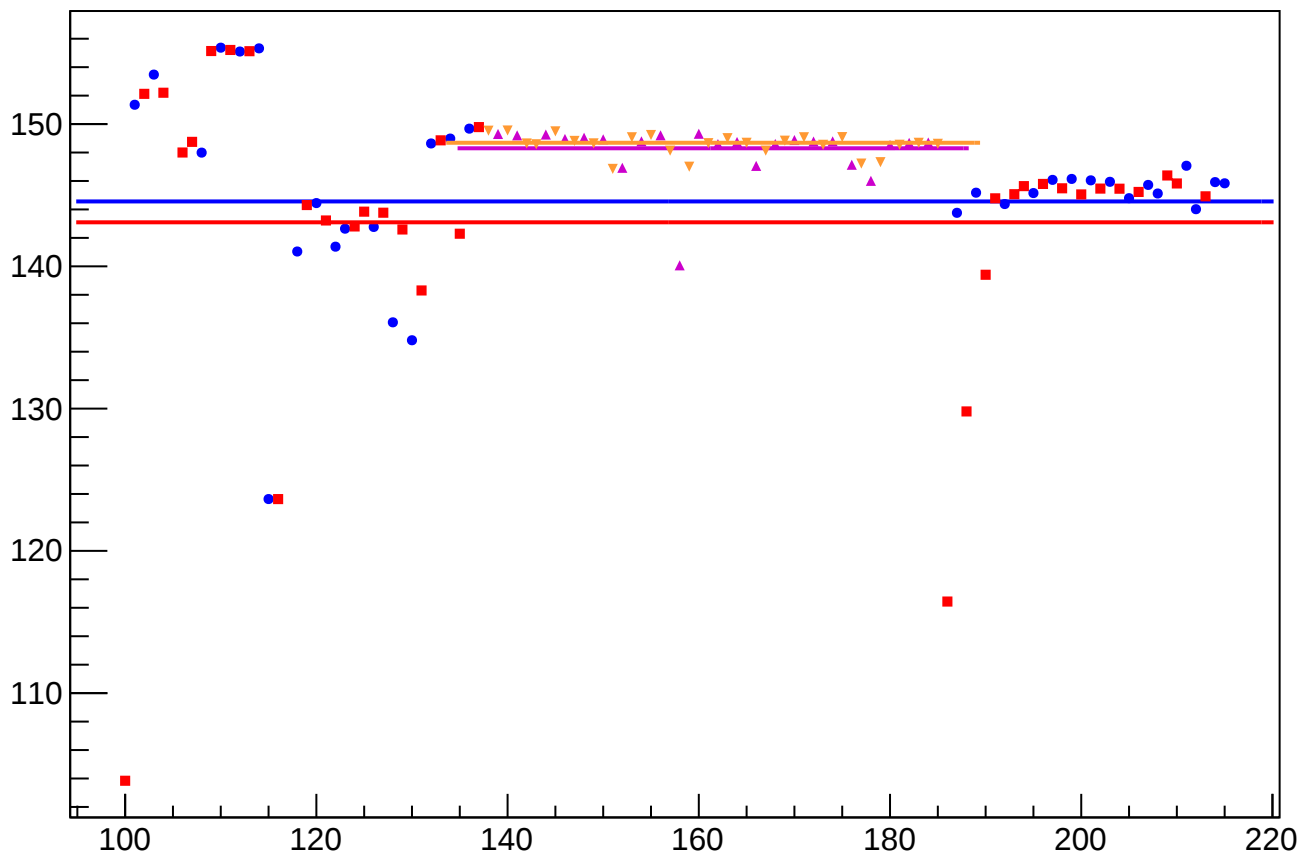
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 6694035.6/65

In: 0.416 $\pm$ 0.000 χ^2 /NDF:5191525.6/54

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:5119847.6/58

All: 0.411 $\pm$ 0.000 χ^2 /NDF: 10325229.2/113

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.562+/-0.000 χ^2/NDF : 3557559837.3/31

Left Out: 148.687+/-0.000 χ^2/NDF : 52285197.5/24

Right Out: 143.095+/-0.000 χ^2/NDF : 7402313816.5/33

Left In: 148.298+/-0.000 χ^2/NDF : 332527463.6/22

Left: 148.500+/-0.000 χ^2/NDF : 391414535.1/47

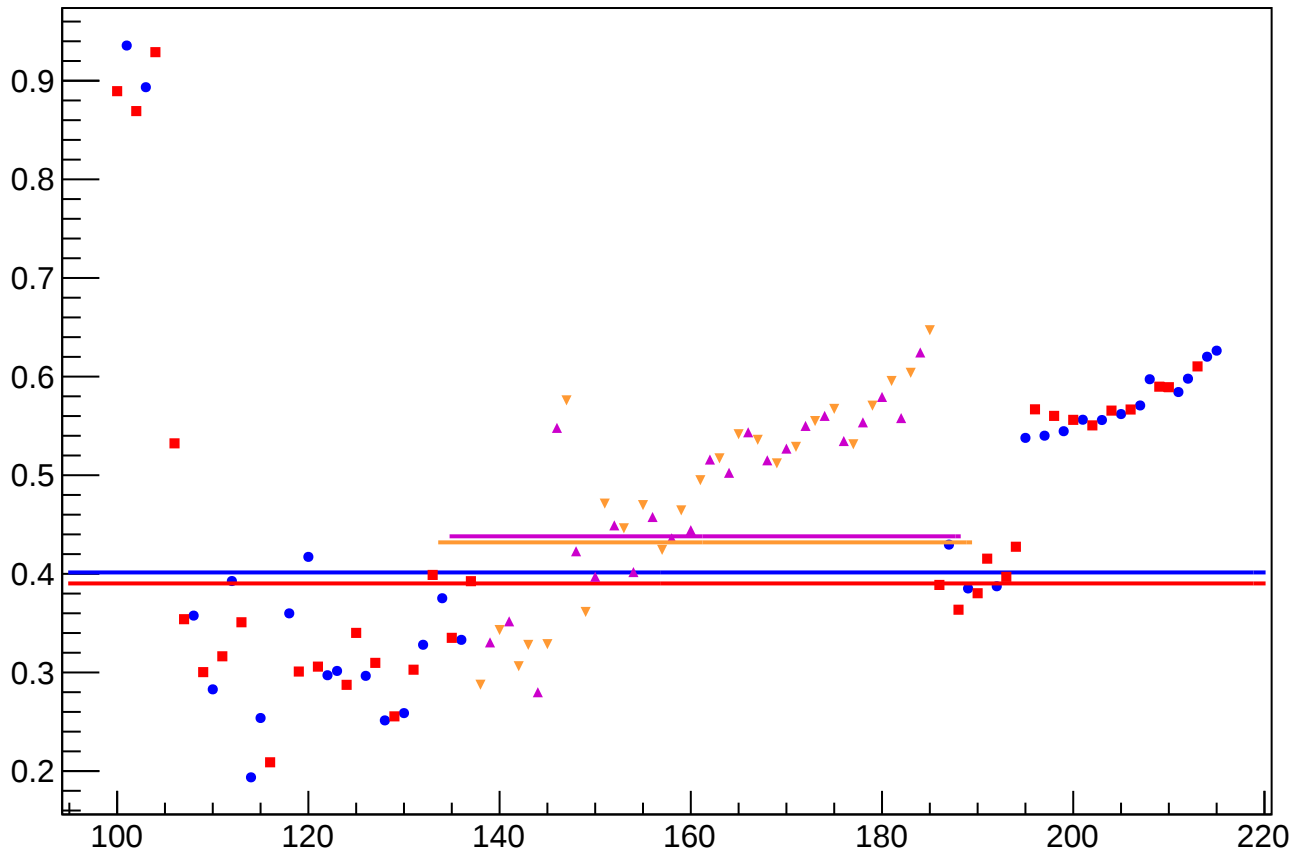
Right: 143.805+/-0.000 χ^2/NDF : 11061497299.0/65

In: 146.351+/-0.000 χ^2/NDF : 4501134390.7/54

Out: 145.789+/-0.000 χ^2/NDF : 8923784262.6/58

All: 146.060+/-0.000 χ^2/NDF : 13453628275.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.401 $\pm$ 0.000 χ^2 /NDF: 3614160.9/31

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.390 $\pm$ 0.000 χ^2 /NDF: 3079538.6/33

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3432903.3/47

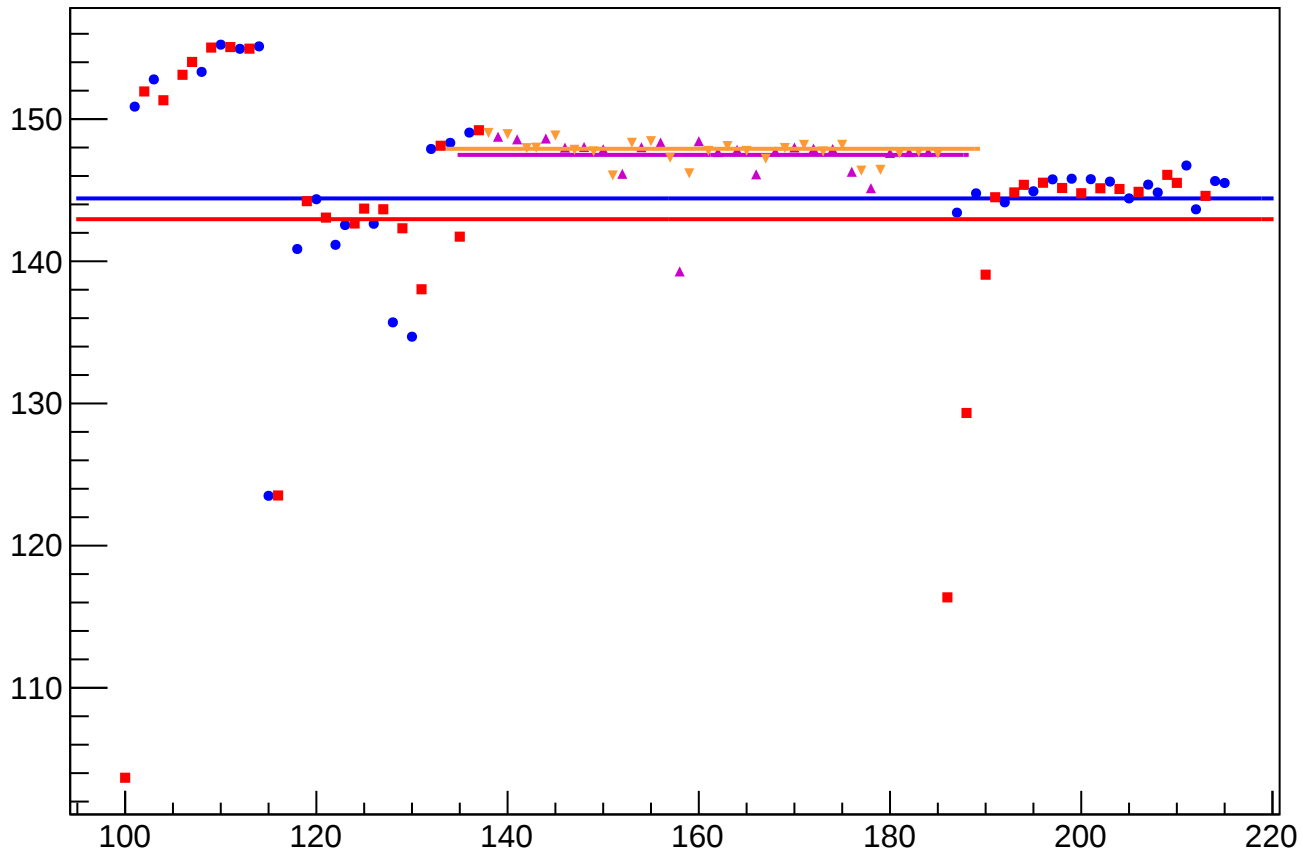
Right: 0.396 $\pm$ 0.000 χ^2 /NDF: 6705431.2/65

In: 0.419 $\pm$ 0.000 χ^2 /NDF:5236333.1/54

Out: 0.410 $\pm$ 0.000 χ^2 /NDF:5167456.4/58

All: 0.414 $\pm$ 0.000 χ^2 /NDF: 10417315.7/113

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.421 $\pm$ 0.000 χ^2/NDF : 3711560857.3/31

Left Out: 147.912 $\pm$ 0.000 χ^2/NDF : 64463426.1/24

Right Out: 142.961 $\pm$ 0.000 χ^2/NDF : 7825139414.0/33

Left In: 147.483 $\pm$ 0.000 χ^2/NDF : 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2/NDF : 415263003.2/47

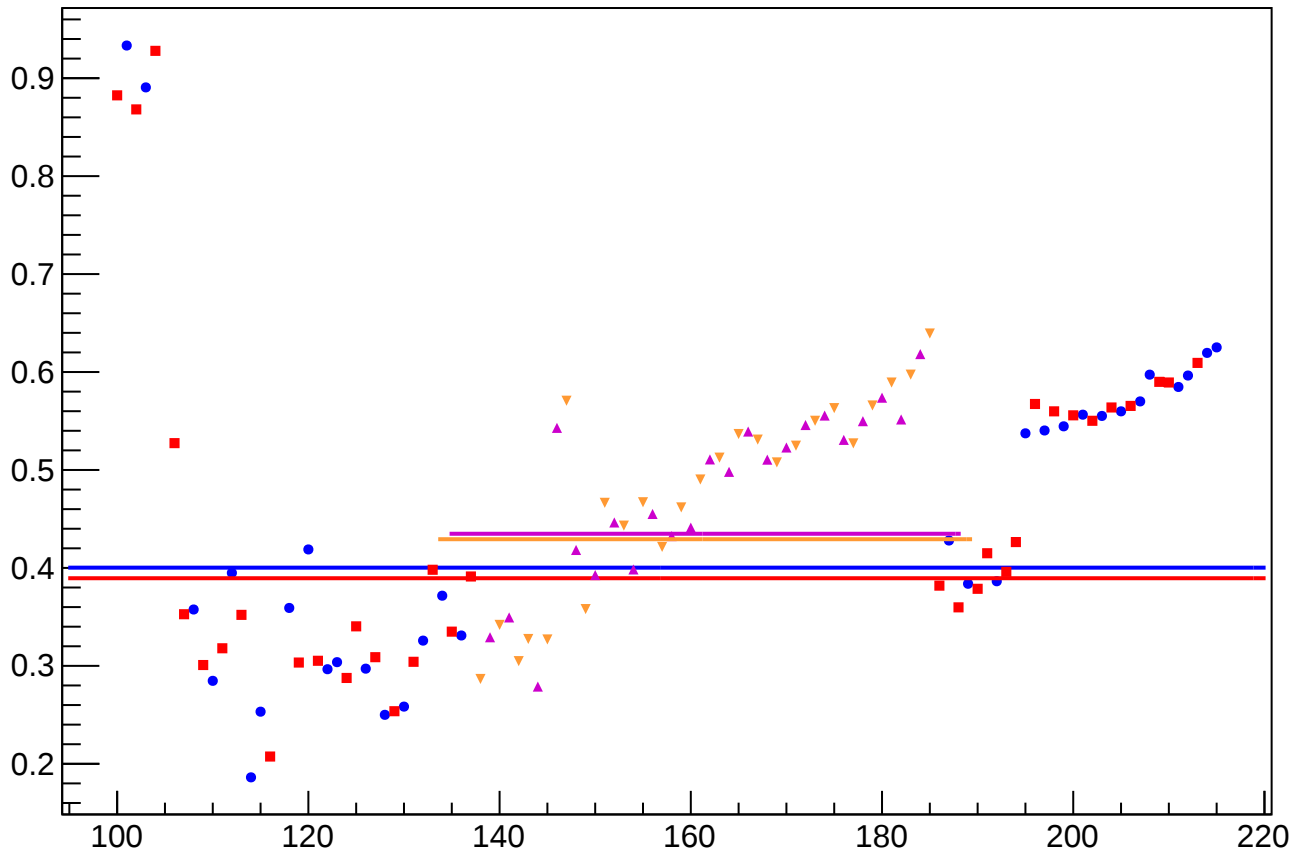
Right: 143.668 $\pm$ 0.000 χ^2/NDF : 11637788914.4/65

In: 145.896 $\pm$ 0.000 χ^2/NDF : 4469058470.6/54

Out: 145.357 $\pm$ 0.000 χ^2/NDF : 9051503709.9/58

All: 145.617 $\pm$ 0.000 χ^2/NDF : 13547147536.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.400 $\pm$ 0.000 χ^2 /NDF: 3645232.1/31

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 3083336.0/33

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

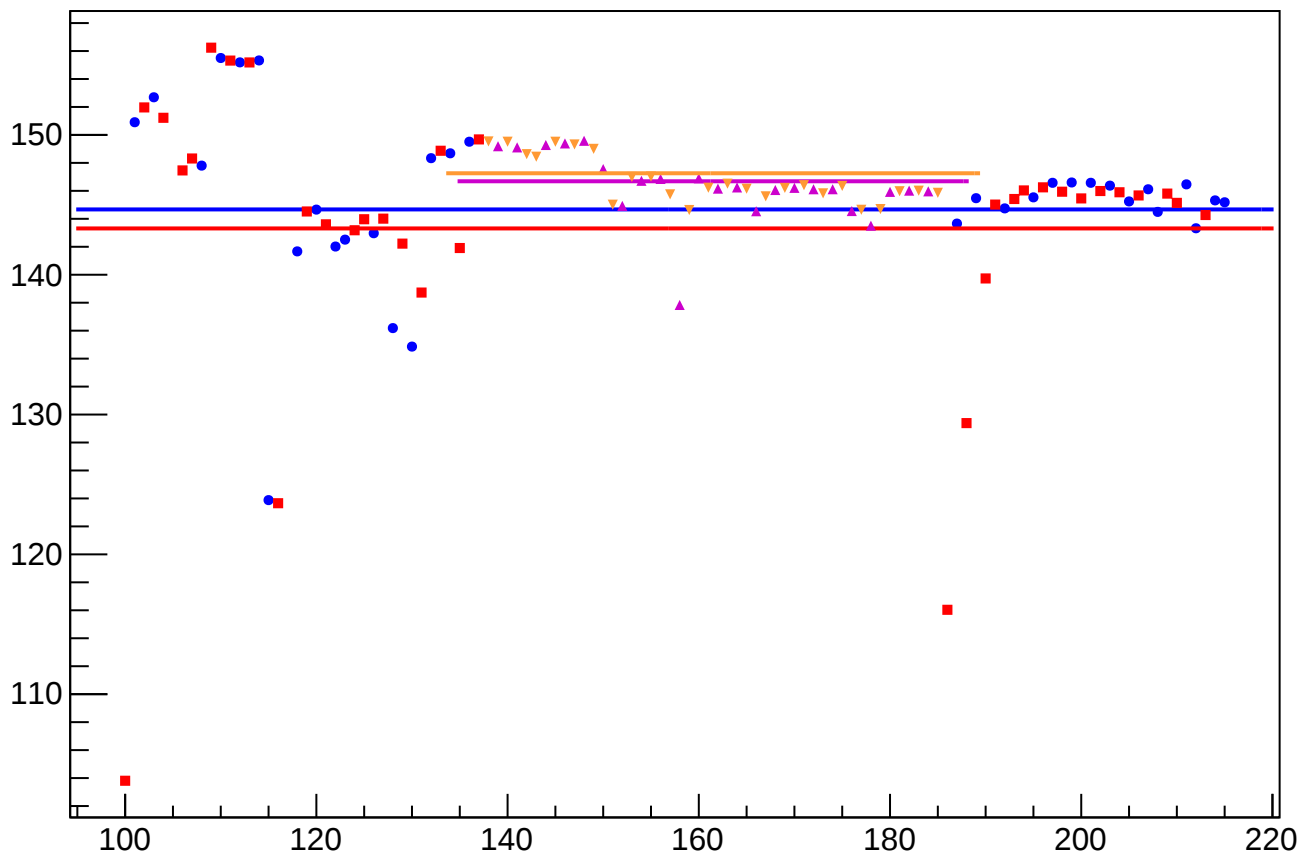
Right: 0.395 $\pm$ 0.000 χ^2 /NDF: 6739624.5/65

In: 0.417 $\pm$ 0.000 χ^2 /NDF:5237111.8/54

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:5125458.8/58

All: 0.413 $\pm$ 0.000 χ^2 /NDF: 10374847.8/113

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.671 $\pm$ 0.000 χ^2 /NDF: 3230737722.8/31

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.311 $\pm$ 0.000 χ^2 /NDF: 7143733487.8/33

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

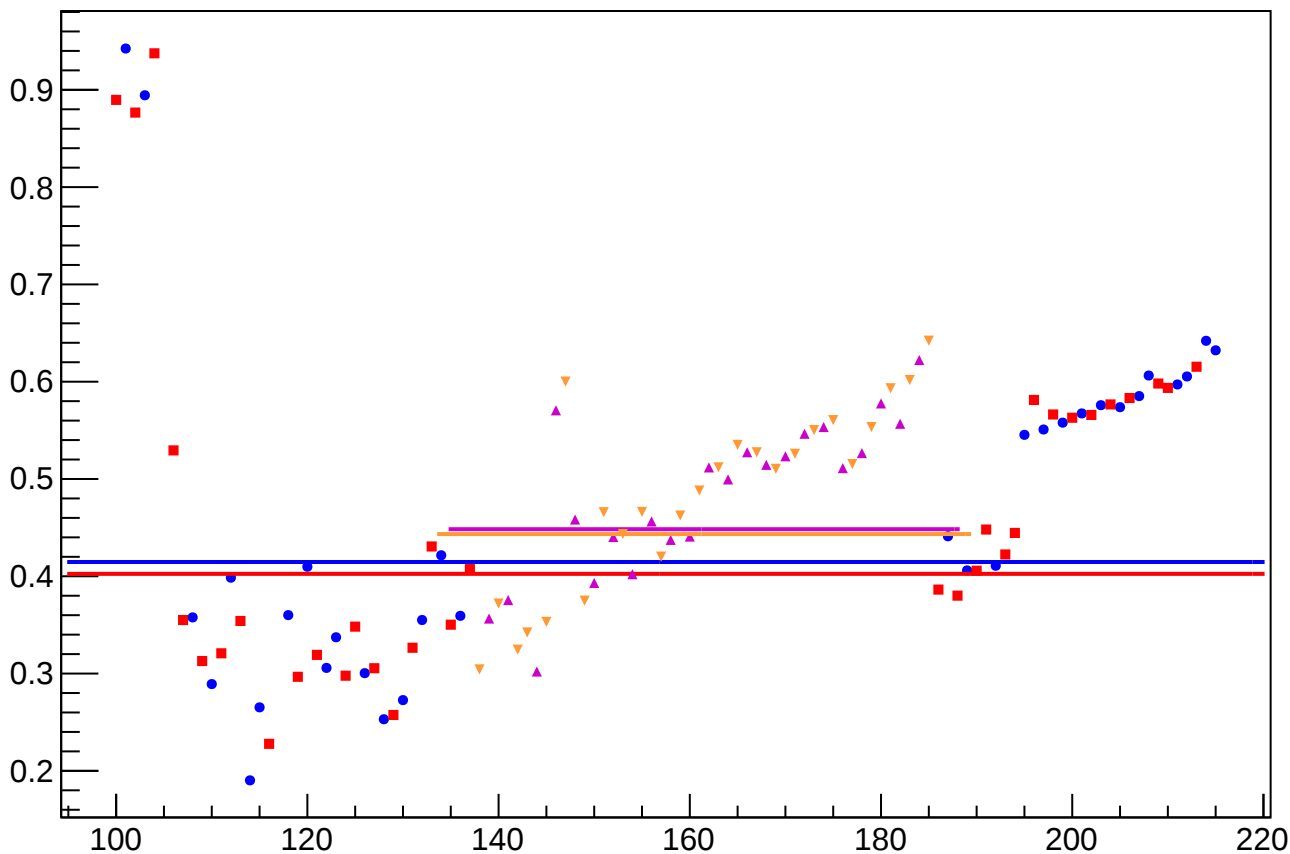
Right: 143.968 $\pm$ 0.000 χ^2 /NDF: 10456353553.3/65

In: 145.650 $\pm$ 0.000 χ^2 /NDF: 3954557421.4/54

Out: 145.232 $\pm$ 0.000 χ^2 /NDF: 8100436052.8/58

All: 145.434 $\pm$ 0.000 χ^2 /NDF: 12070096041.0/114

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.415 $\pm$ 0.000 χ^2 /NDF: 3523935.0/31

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.402 $\pm$ 0.000 χ^2 /NDF: 2975695.8/33

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

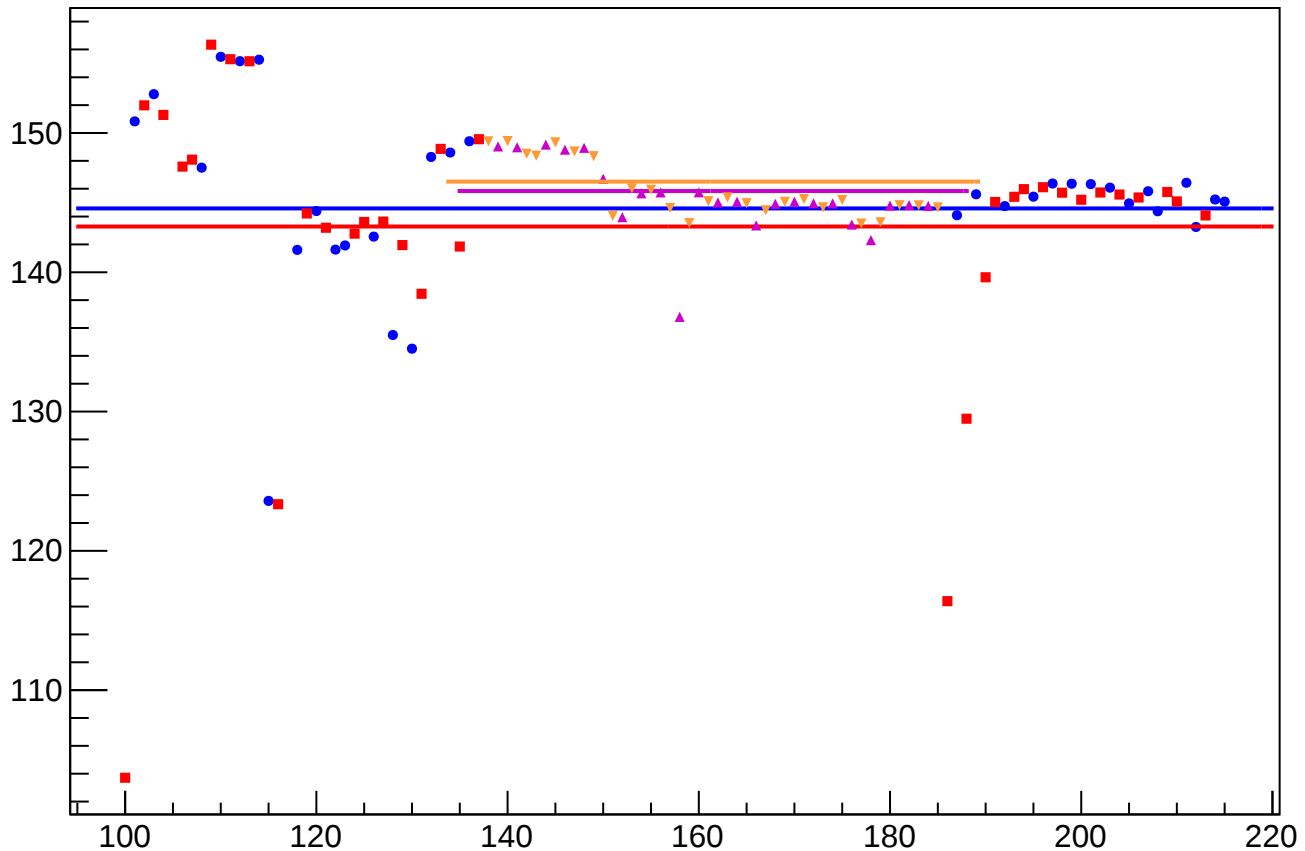
Right: 0.408 $\pm$ 0.000 χ^2 /NDF: 6512796.1/65

In: 0.431 $\pm$ 0.000 χ^2 /NDF:4738870.4/54

Out: 0.422 $\pm$ 0.000 χ^2 /NDF:4605489.6/58

All: 0.427 $\pm$ 0.000 χ^2 /NDF: 9357343.7/113

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.585 $\pm$ 0.000 χ^2/NDF : 3340503262.8/31

Left Out: 146.508 $\pm$ 0.000 χ^2/NDF : 401248837.9/24

Right Out: 143.285 $\pm$ 0.000 χ^2/NDF : 7096224142.5/33

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

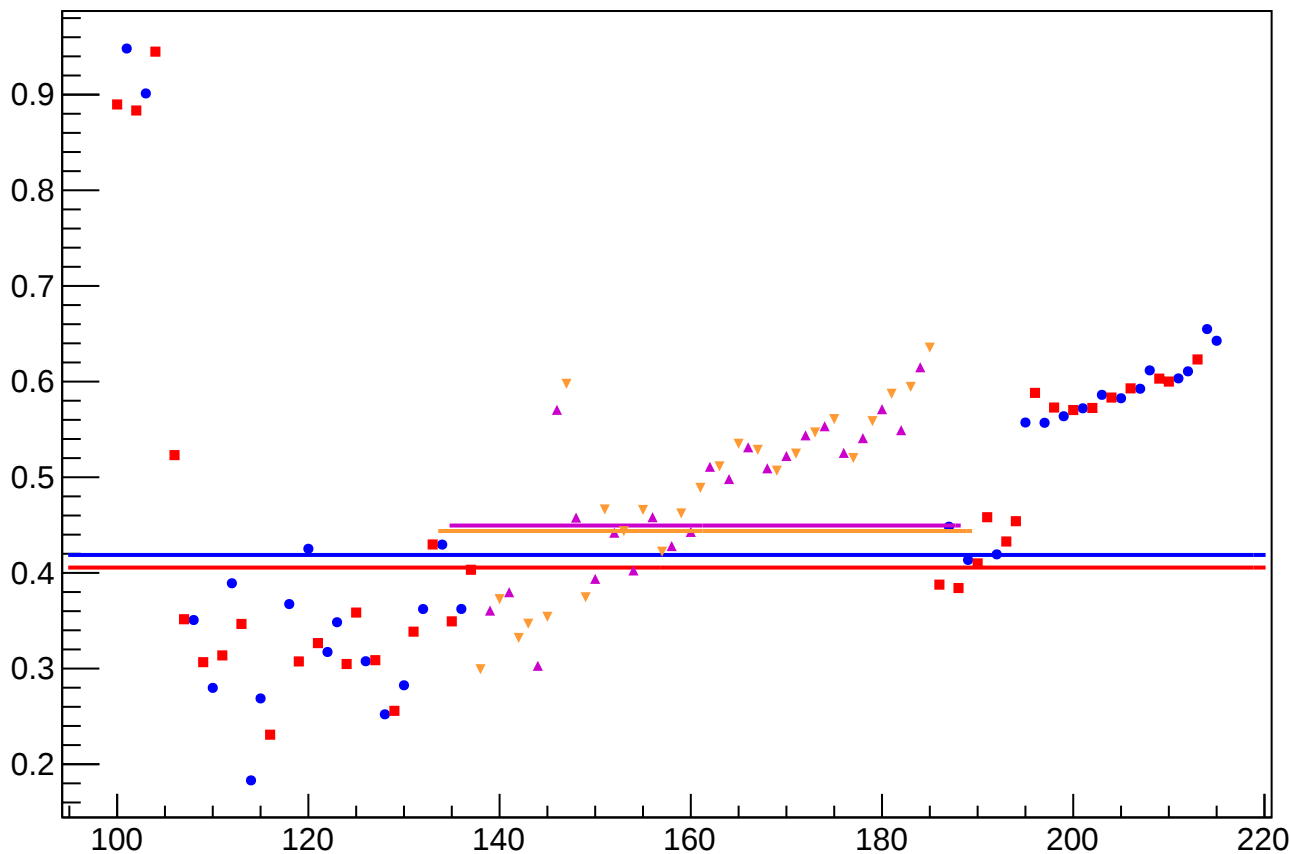
Right: 143.911 $\pm$ 0.000 χ^2/NDF : 10510015864.1/65

In: 145.198 $\pm$ 0.000 χ^2/NDF : 4094778184.2/54

Out: 144.867 $\pm$ 0.000 χ^2/NDF : 7956397859.7/58

All: 145.027 $\pm$ 0.000 χ^2/NDF : 1206051759.7

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.419 $\pm$ 0.000 χ^2 /NDF: 3582792.1/31

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.406 $\pm$ 0.000 χ^2 /NDF: 3013430.7/33

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

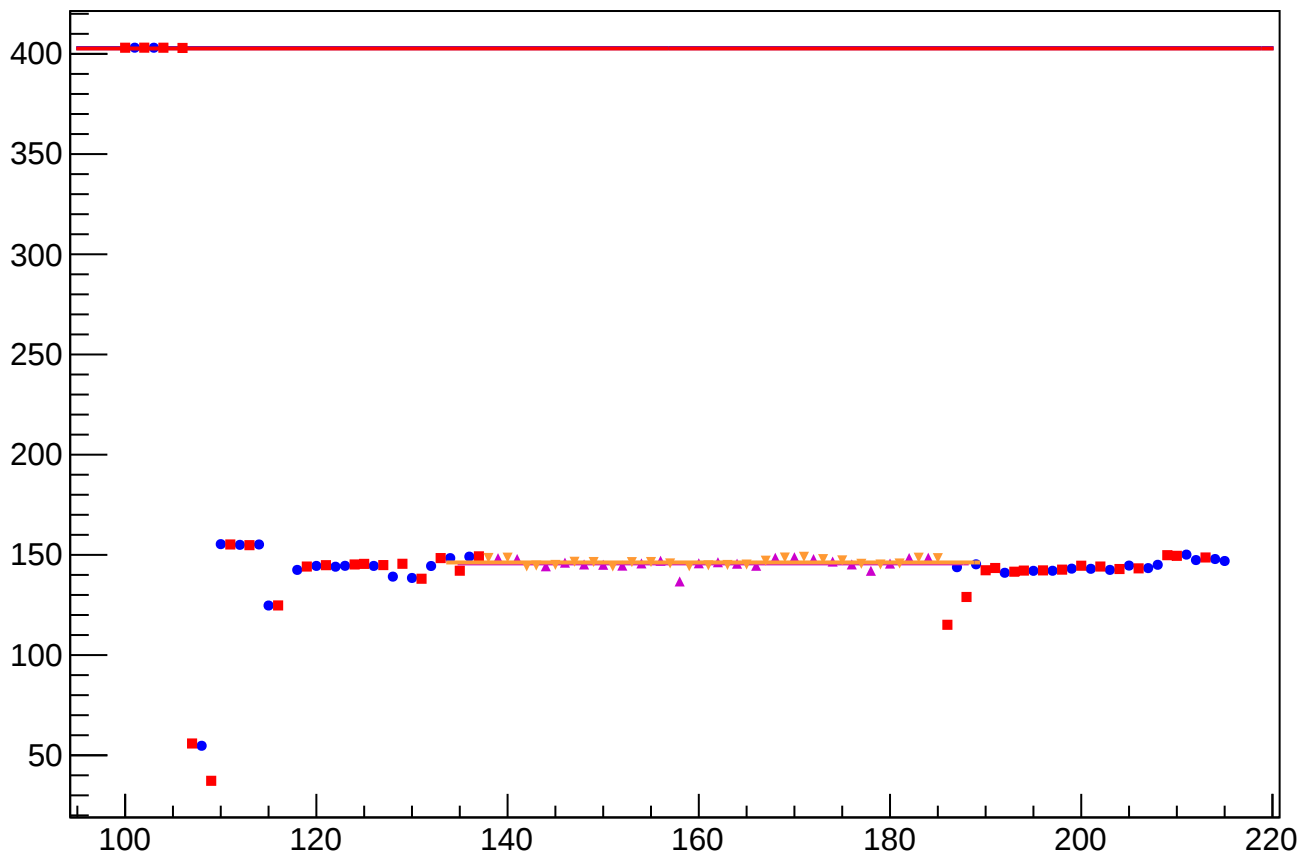
Right: 0.412 $\pm$ 0.000 χ^2 /NDF: 6611316.7/65

In: 0.434 $\pm$ 0.000 χ^2 /NDF:4753277.8/54

Out: 0.424 $\pm$ 0.000 χ^2 /NDF:4602861.2/58

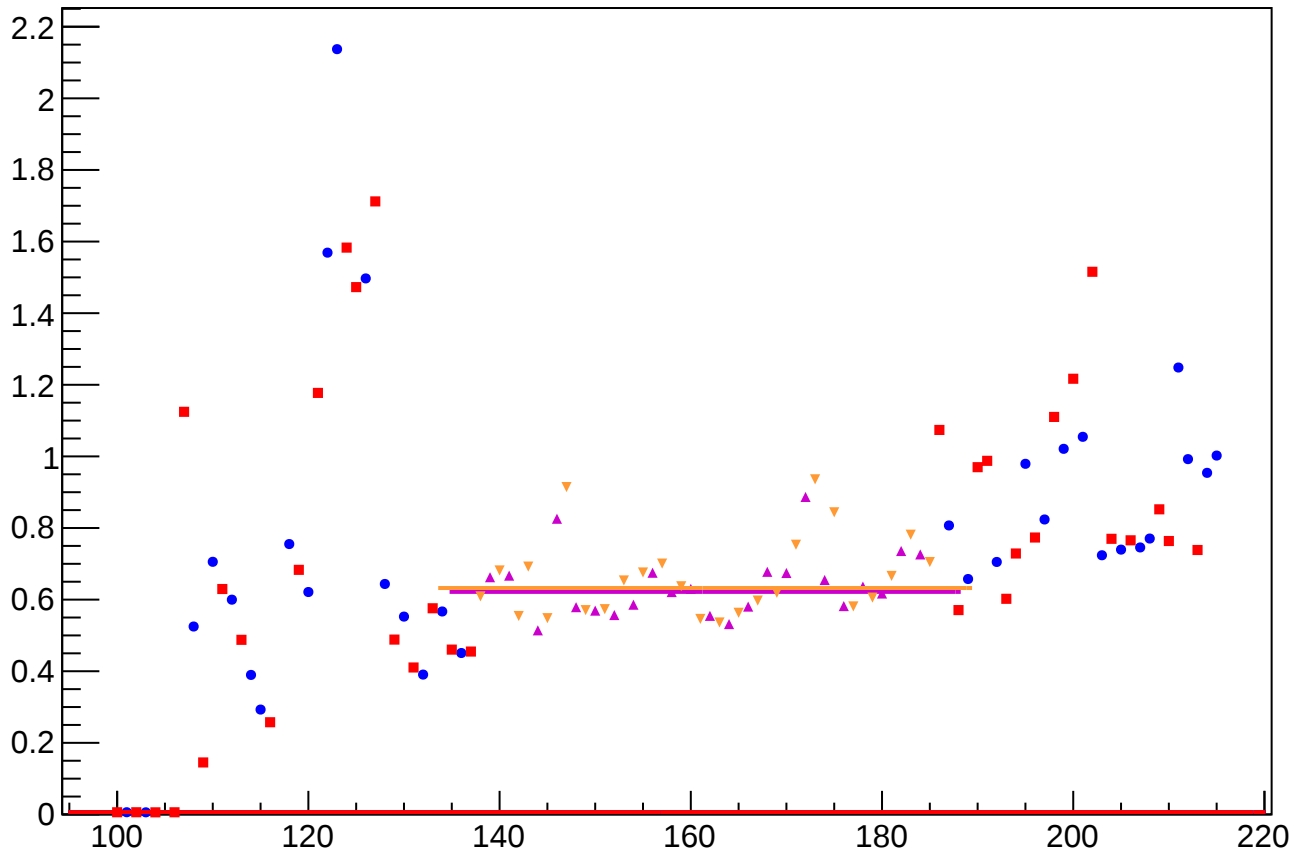
All: 0.429 $\pm$ 0.000 χ^2 /NDF: 9371607.7/113

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.858 $\pm$ 0.000	χ^2 /NDF: 1893258680591.5/31	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: 402.771 $\pm$ 0.000	χ^2 /NDF: 5959771255494.4/
Right Out: 402.694 $\pm$ 0.000	χ^2 /NDF: 4066066385367.7/33	In: 402.568 $\pm$ 0.000	χ^2 /NDF: 4223738906528.6/54
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.434 $\pm$ 0.000	χ^2 /NDF: 6422843298512.0/54
		All: 402.497 $\pm$ 0.000	χ^2 /NDF: 106468789295.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 25915147.7/31

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 26285318.2/33

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

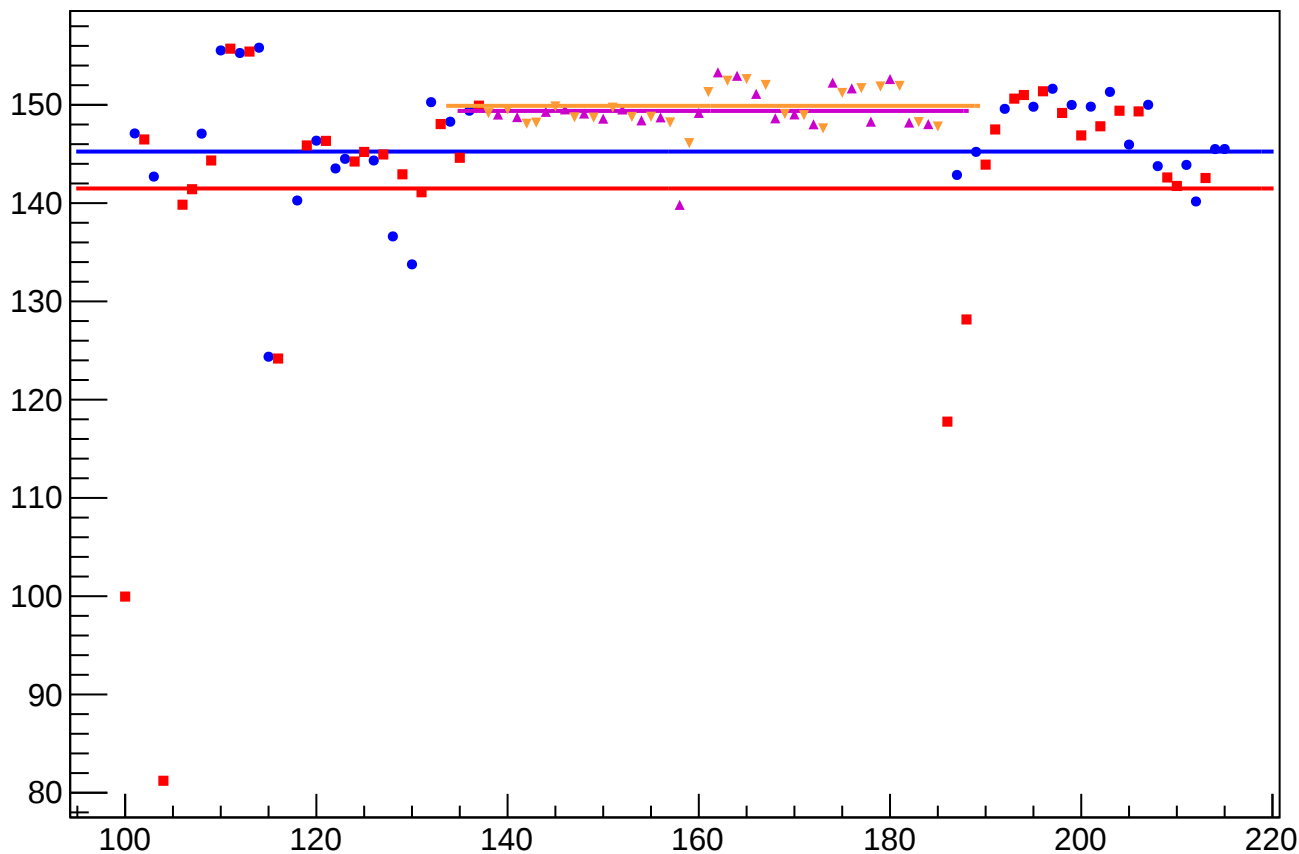
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 52200485.3/65

In: 0.007 $\pm$ 0.000 χ^2 /NDF:52977589.8/54

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:54957924.2/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 107935749.8/113

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.247 $\pm$ 0.000 χ^2 /NDF: 1359841725.8/31

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 141.490 $\pm$ 0.000 χ^2 /NDF: 3251361999.8/33

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

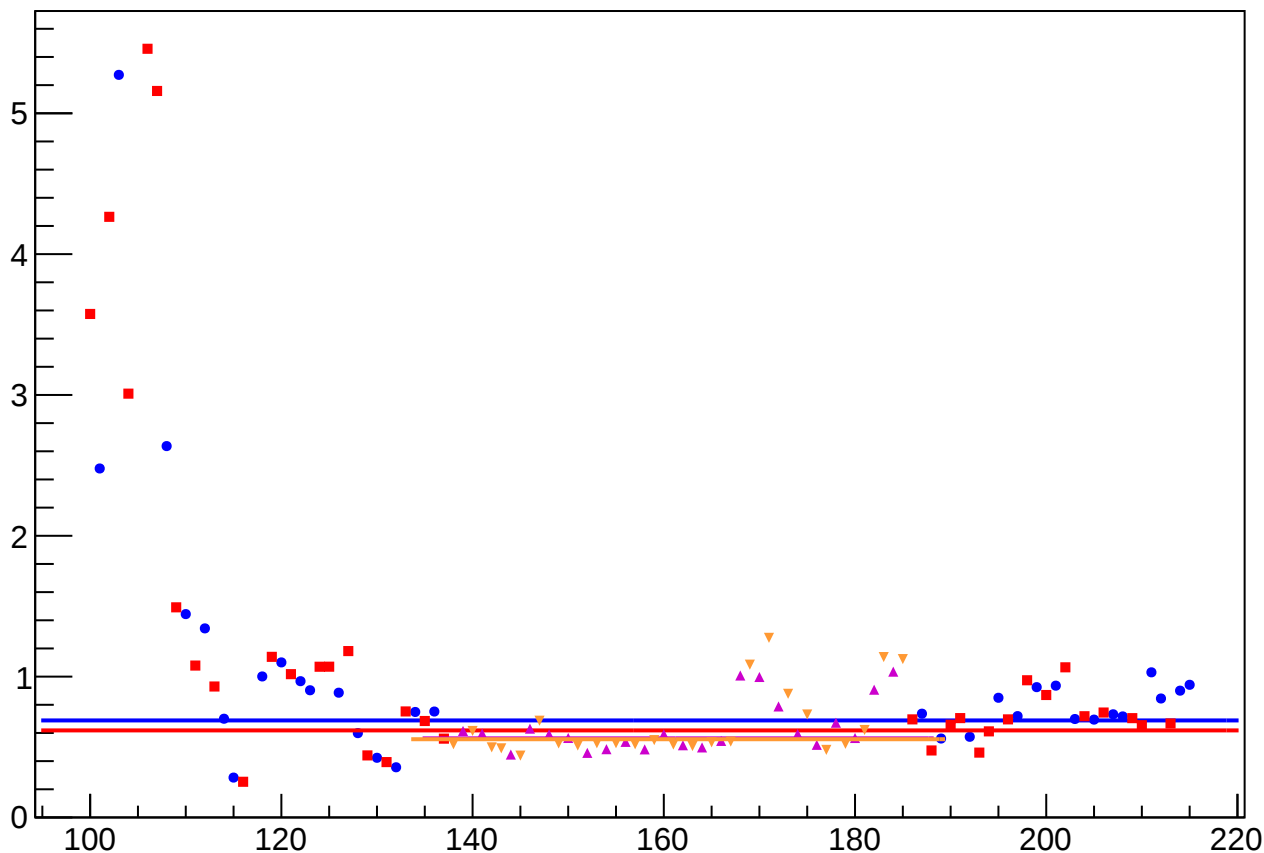
Right: 143.190 $\pm$ 0.000 χ^2 /NDF: 4808493000.9/65

In: 147.932 $\pm$ 0.000 χ^2 /NDF: 2077797606.2/54

Out: 146.718 $\pm$ 0.000 χ^2 /NDF: 4772185757.0/58

All: 147.290 $\pm$ 0.000 χ^2 /NDF: 6906753980.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.689 $\pm$ 0.000 χ^2 /NDF: 4391624.5/31

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.618 $\pm$ 0.000 χ^2 /NDF: 5581444.6/33

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

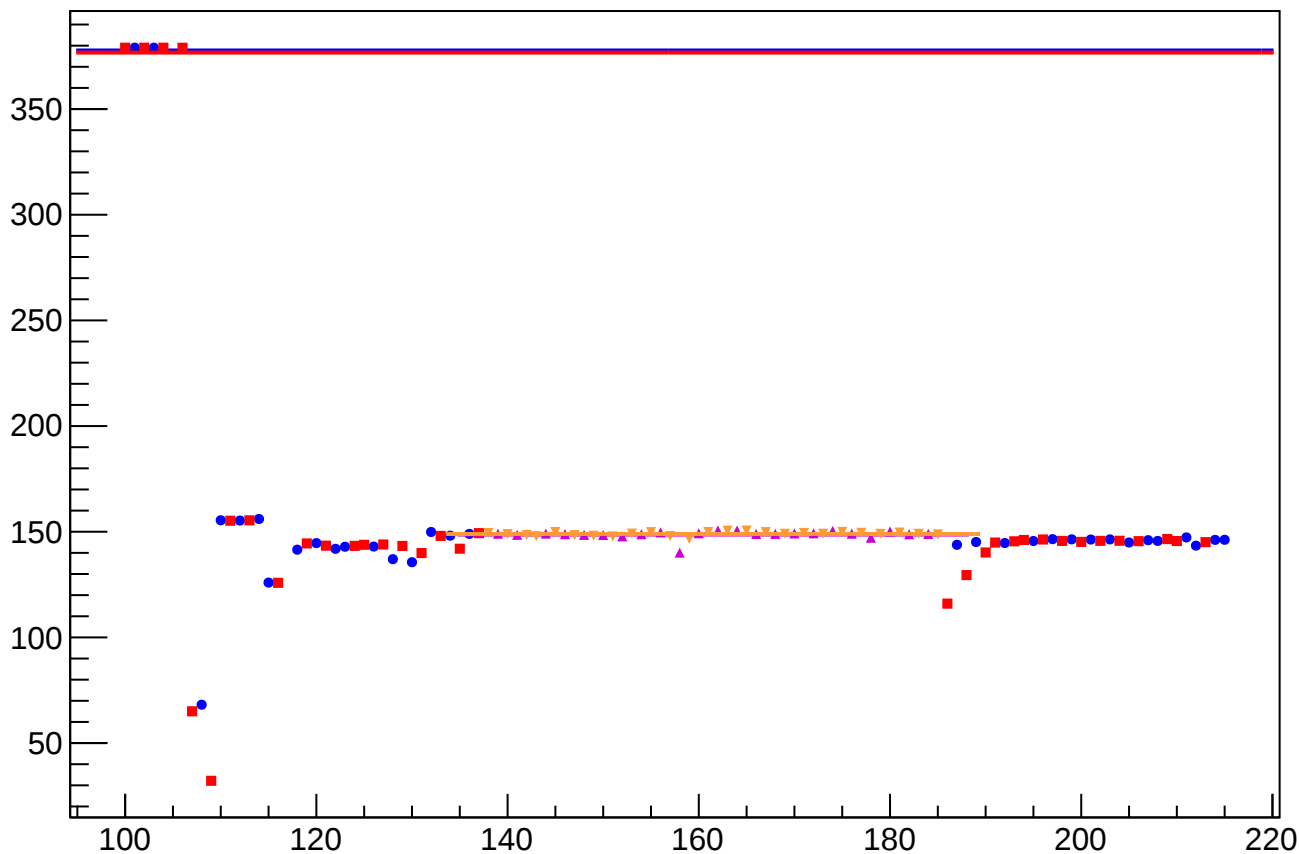
Right: 0.650 $\pm$ 0.000 χ^2 /NDF: 10113347.6/65

In: 0.606 $\pm$ 0.000 χ^2 /NDF:6233507.6/54

Out: 0.579 $\pm$ 0.000 χ^2 /NDF:7505768.0/58

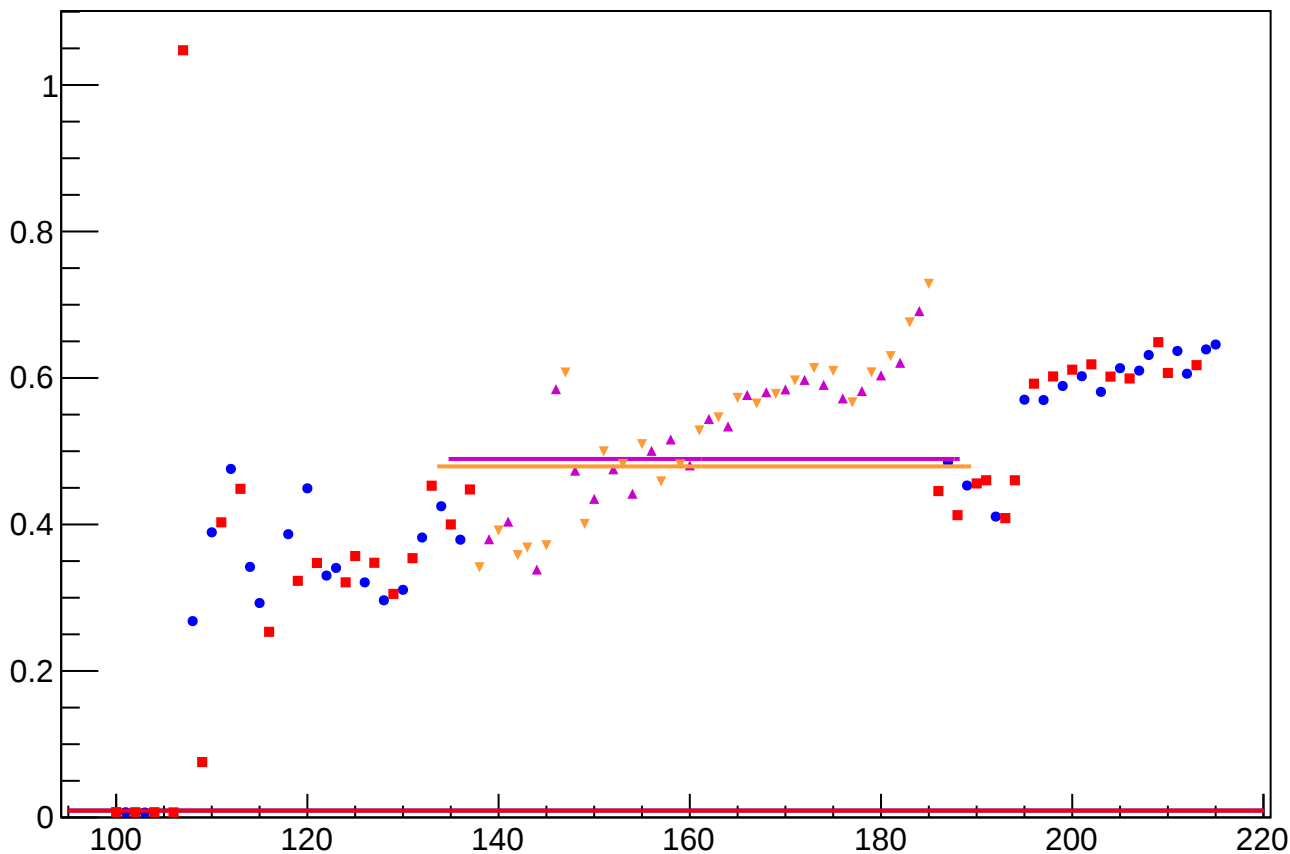
All: 0.592 $\pm$ 0.000 χ^2 /NDF: 13796098.7/113

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.728 $\pm$ 0.000	χ^2 /NDF: 4227133226840.3/31	Left: 148.814 $\pm$ 0.000	χ^2 /NDF: 319467494.9/47
Left Out: 148.944 $\pm$ 0.000	χ^2 /NDF: 63976941.3/24	Right: 377.202 $\pm$ 0.000	χ^2 /NDF: 14475838383224.9
Right Out: 376.741 $\pm$ 0.000	χ^2 /NDF: 10241789201187.7/33	In: 376.560 $\pm$ 0.000	χ^2 /NDF: 7797595525105.6/54
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.629 $\pm$ 0.000	χ^2 /NDF: 14099341509029.9
		All: 376.064 $\pm$ 0.000	χ^2 /NDF: 219031345396.9

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 29847189.9/31

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 28685781.0/33

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

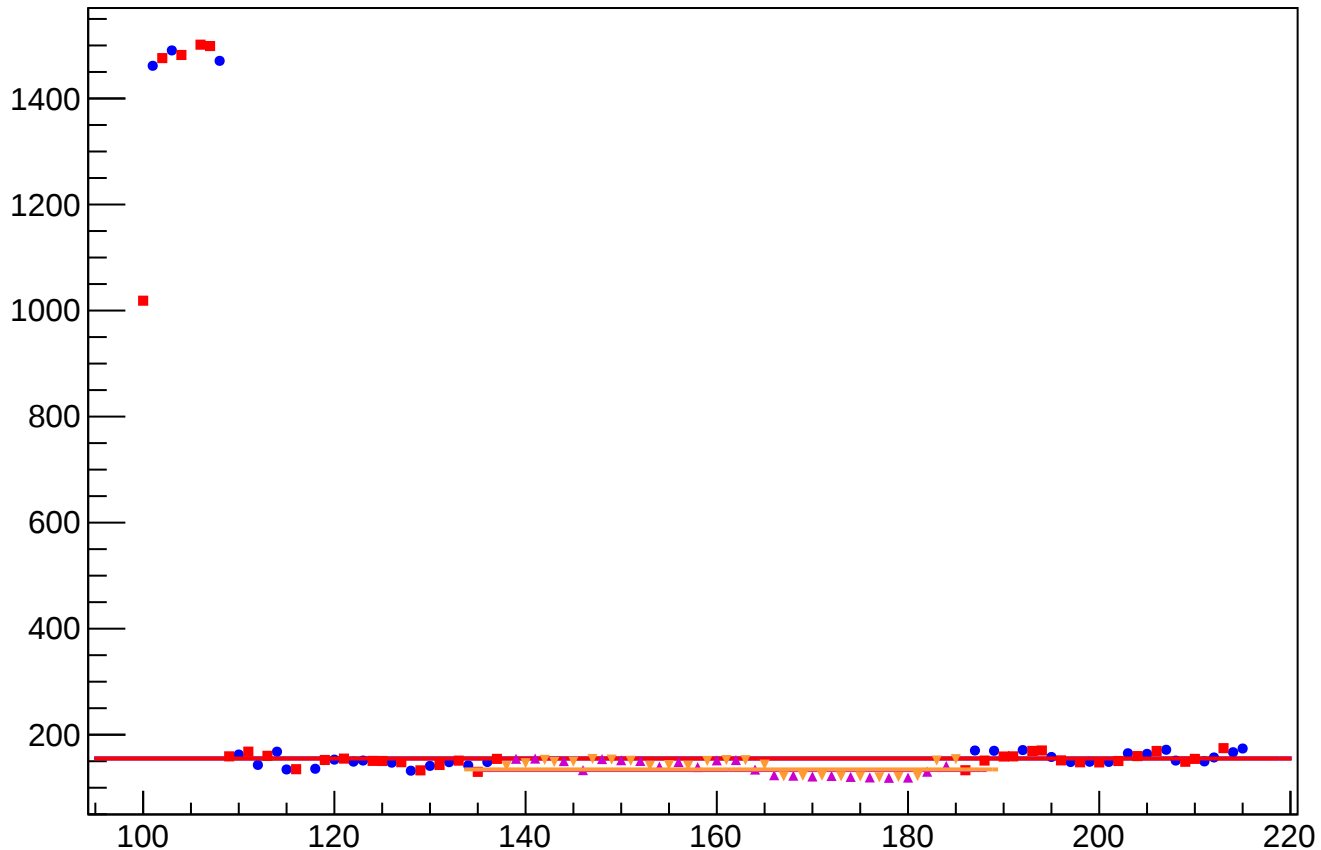
Right: 0.009+/-0.000 χ^2/NDF : 58533151.4/65

In: 0.012+/-0.000 χ^2/NDF :62281696.9/54

Out: 0.012+/-0.000 χ^2/NDF :63039910.6/58

All: 0.012+/-0.000 χ^2/NDF : 125322604.2/113

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.265+/-0.000 χ^2/NDF : 26181938770.9/31

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 155.075+/-0.000 χ^2/NDF : 35199601014.2/33

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

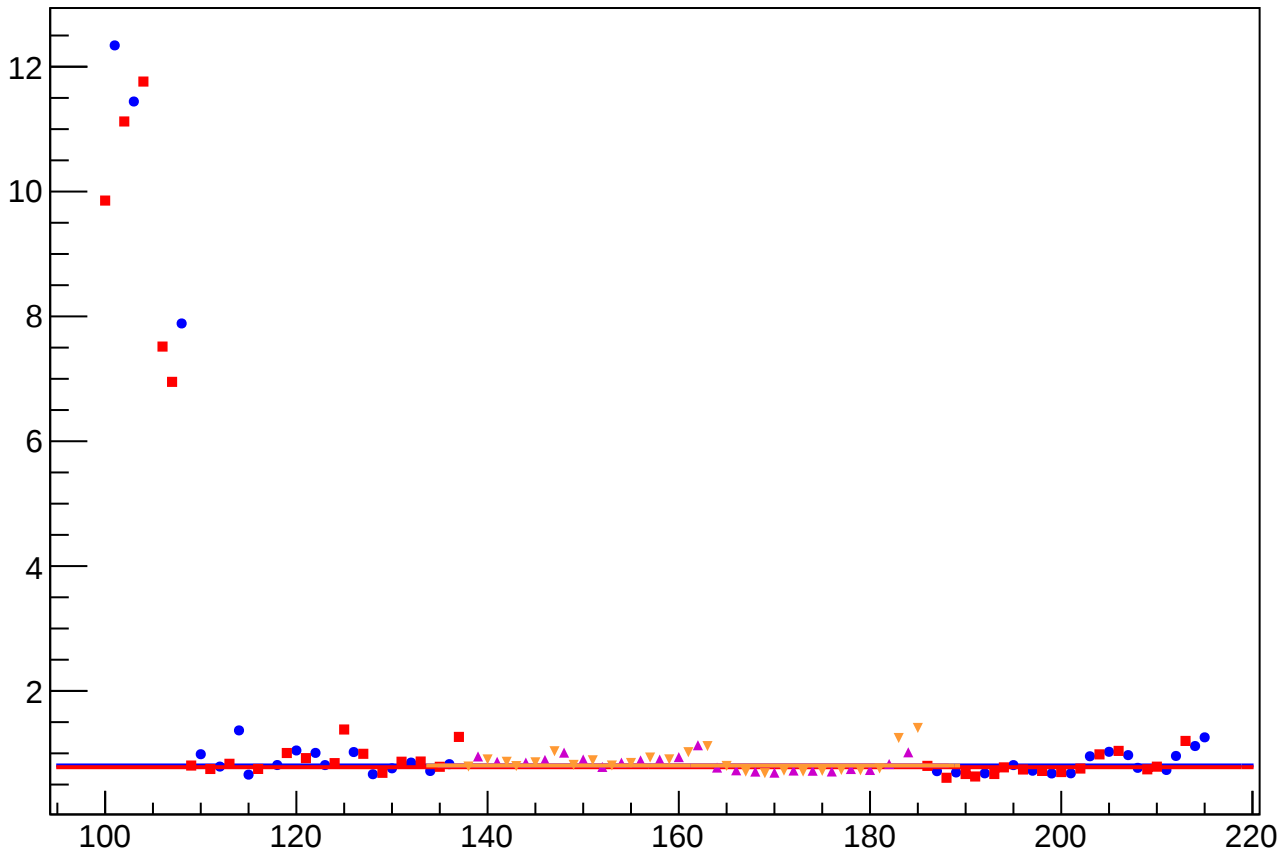
Right: 155.167+/-0.000 χ^2/NDF : 61381903454.7/65

In: 143.506+/-0.000 χ^2/NDF : 35556329421.7/54

Out: 144.173+/-0.000 χ^2/NDF : 44257232076.6/58

All: 143.848+/-0.000 χ^2/NDF : 79823215350.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.806 $\pm$ 0.000 χ^2 /NDF: 3303686.8/31

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.778 $\pm$ 0.000 χ^2 /NDF: 3445620.8/33

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

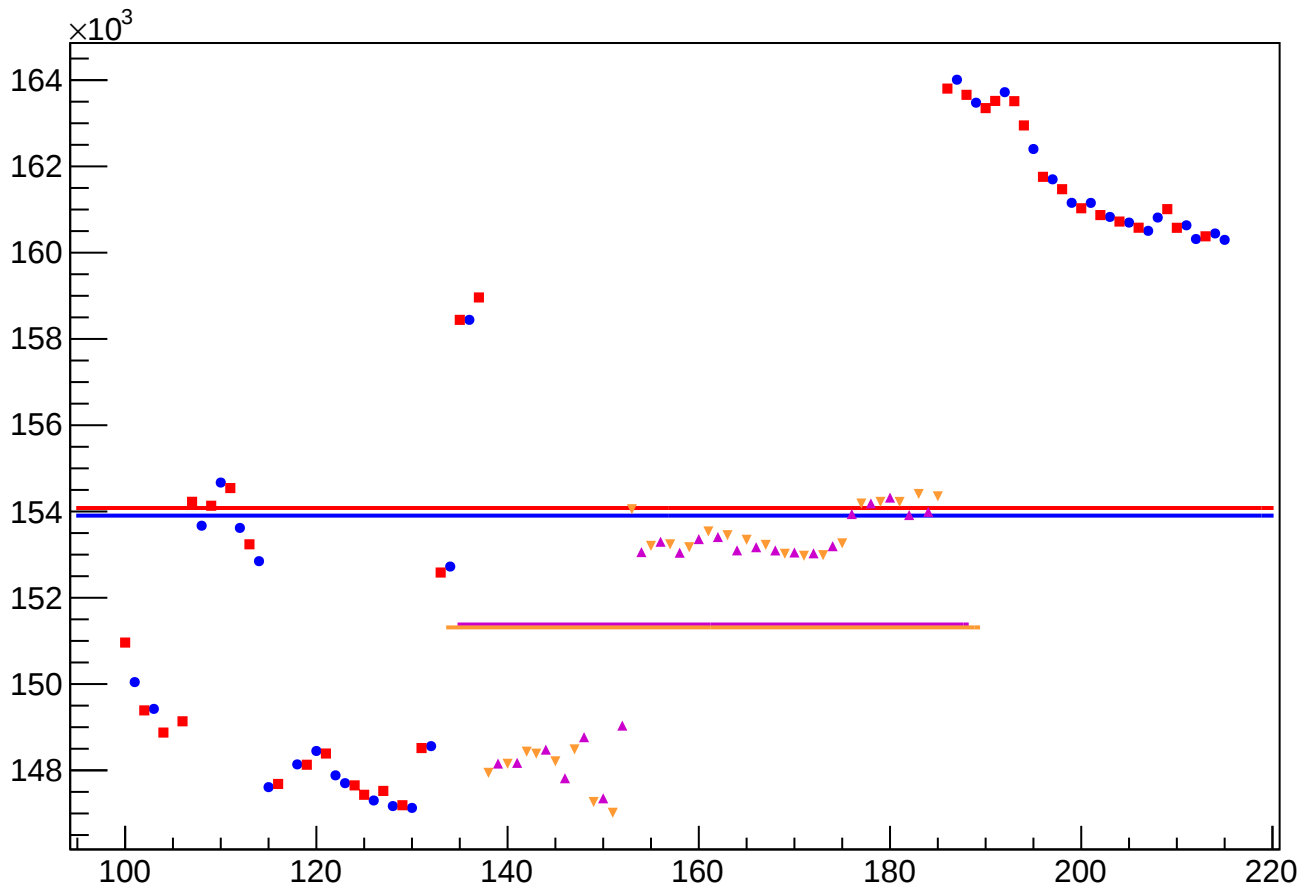
Right: 0.791 $\pm$ 0.000 χ^2 /NDF: 6765155.5/65

In: 0.805 $\pm$ 0.000 χ^2 /NDF:3784222.3/54

Out: 0.793 $\pm$ 0.000 χ^2 /NDF:4153905.3/58

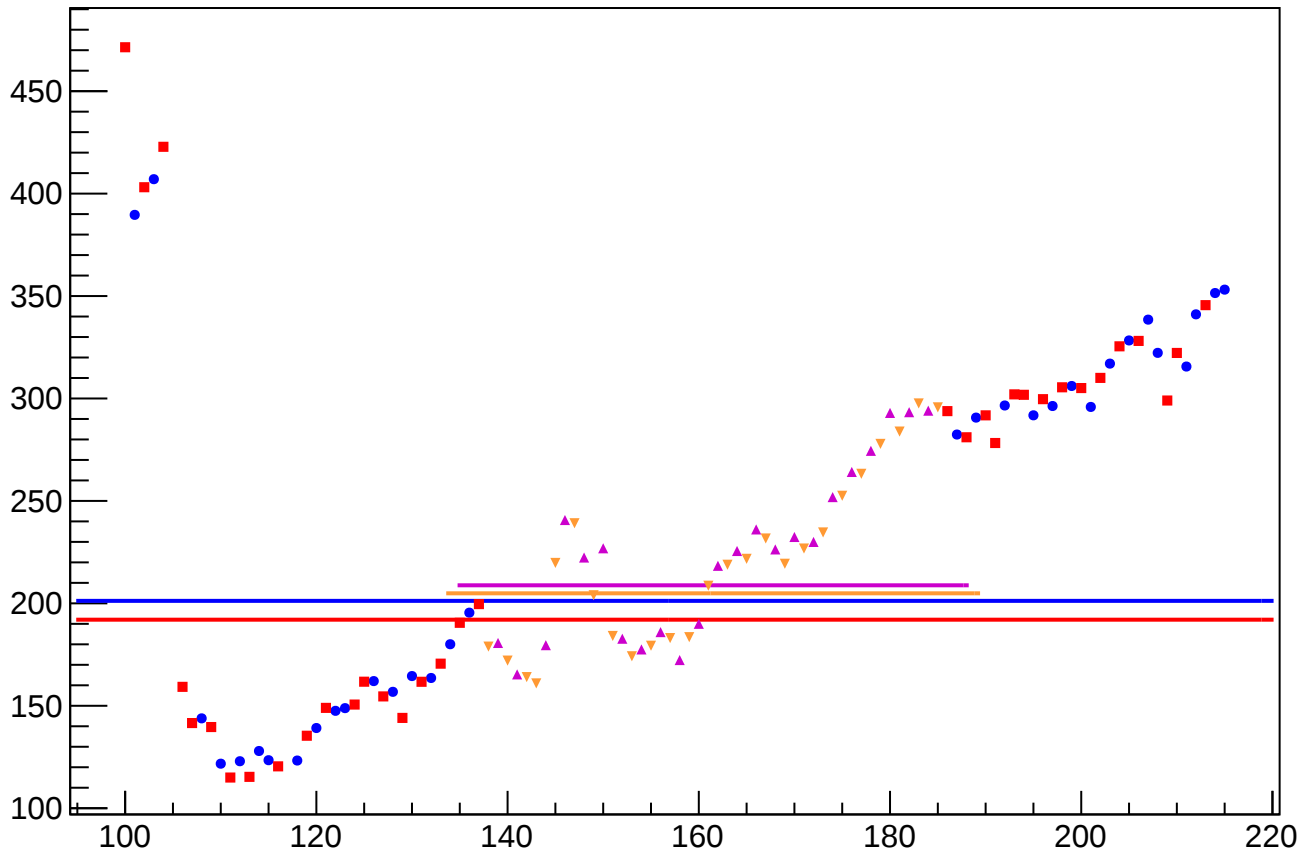
All: 0.799 $\pm$ 0.000 χ^2 /NDF: 7944797.5/113

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153904.363 $\pm$ 0.053	χ^2 /NDF: 12143934356.2/31	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 153996.197 $\pm$ 0.037	χ^2 /NDF: 24689584326.3
Right Out: 154081.066 $\pm$ 0.051	χ^2 /NDF: 12539831057.2/33	In: 152603.017 $\pm$ 0.037	χ^2 /NDF: 15685712684.0/5
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 152639.249 $\pm$ 0.035	χ^2 /NDF: 17242023330.3
		All: 152621.948 $\pm$ 0.025	χ^2 /NDF: 32928243

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 201.215 $\pm$ 0.037 χ^2 /NDF: 5161532.8/31

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 192.028 $\pm$ 0.036 χ^2 /NDF: 5128143.7/33

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

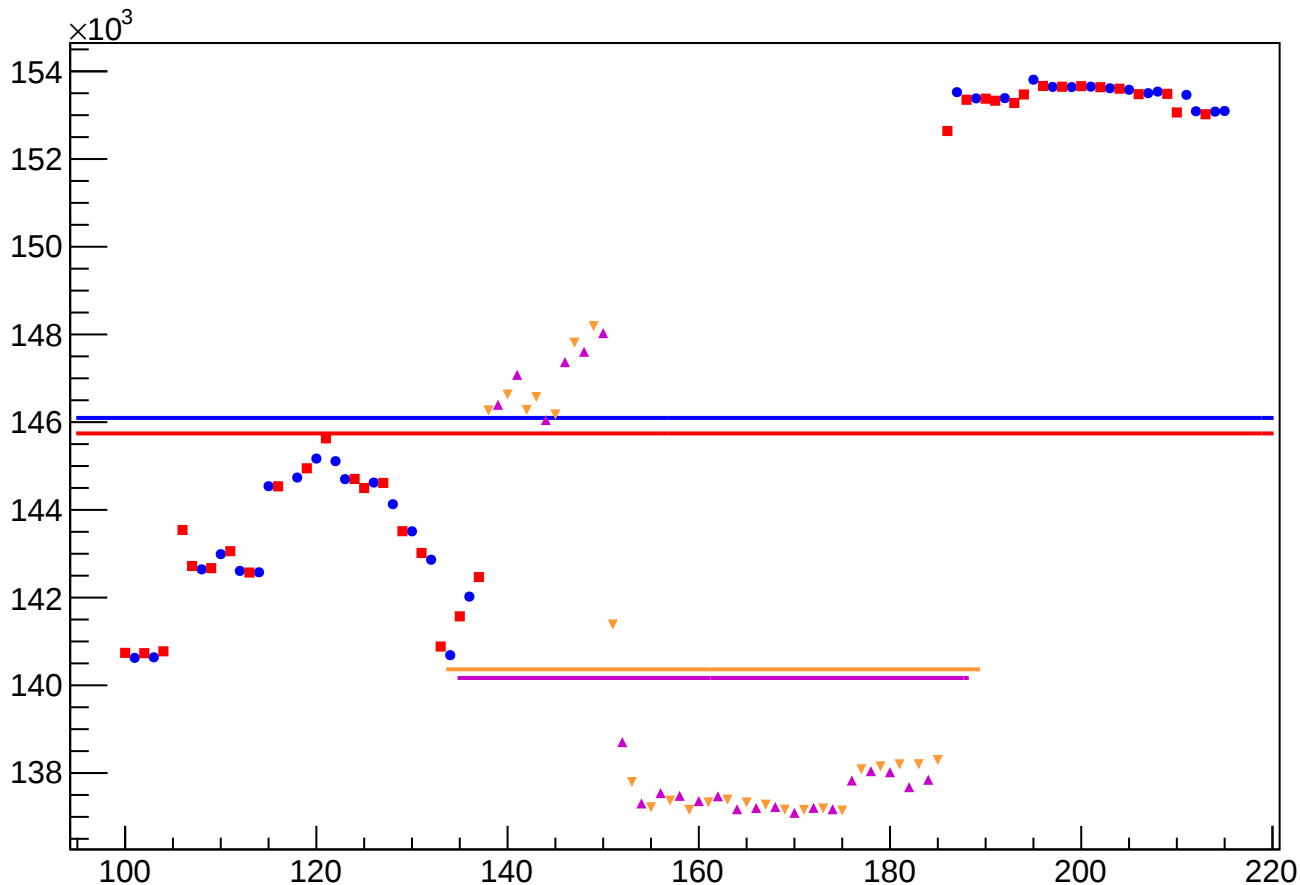
Right: 196.441 $\pm$ 0.026 χ^2 /NDF: 10321133.1/65

In: 205.132 $\pm$ 0.026 χ^2 /NDF:6184811.8/54

Out: 198.733 $\pm$ 0.025 χ^2 /NDF:6251496.2/58

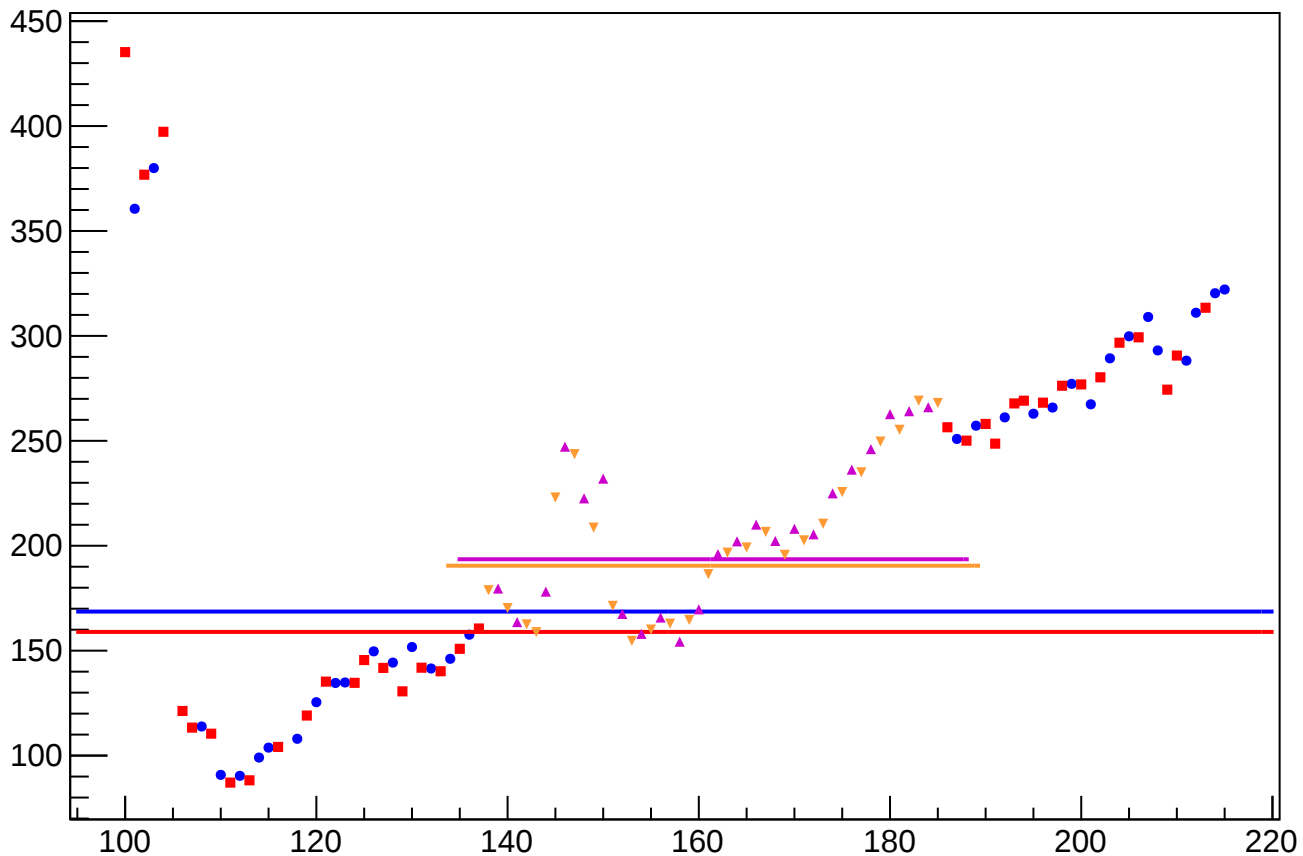
All: 201.789 $\pm$ 0.018 χ^2 /NDF: 12467978.8/11

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146096.874+/-0.045	χ^2/NDF : 10356623359.8/31	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 145910.415+/-0.031	χ^2/NDF : 21333346363.0
Right Out: 145743.443+/-0.043	χ^2/NDF : 10944410724.2/33	In: 143278.386+/-0.033	χ^2/NDF : 26579993920.8/5
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 143205.643+/-0.031	χ^2/NDF : 27095955160.7/
		All: 143240.130+/-0.023	χ^2/NDF : 536785495

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 168.632+/-0.032 χ^2/NDF : 6327704.9/31

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 158.936+/-0.030 χ^2/NDF : 6291419.7/33

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

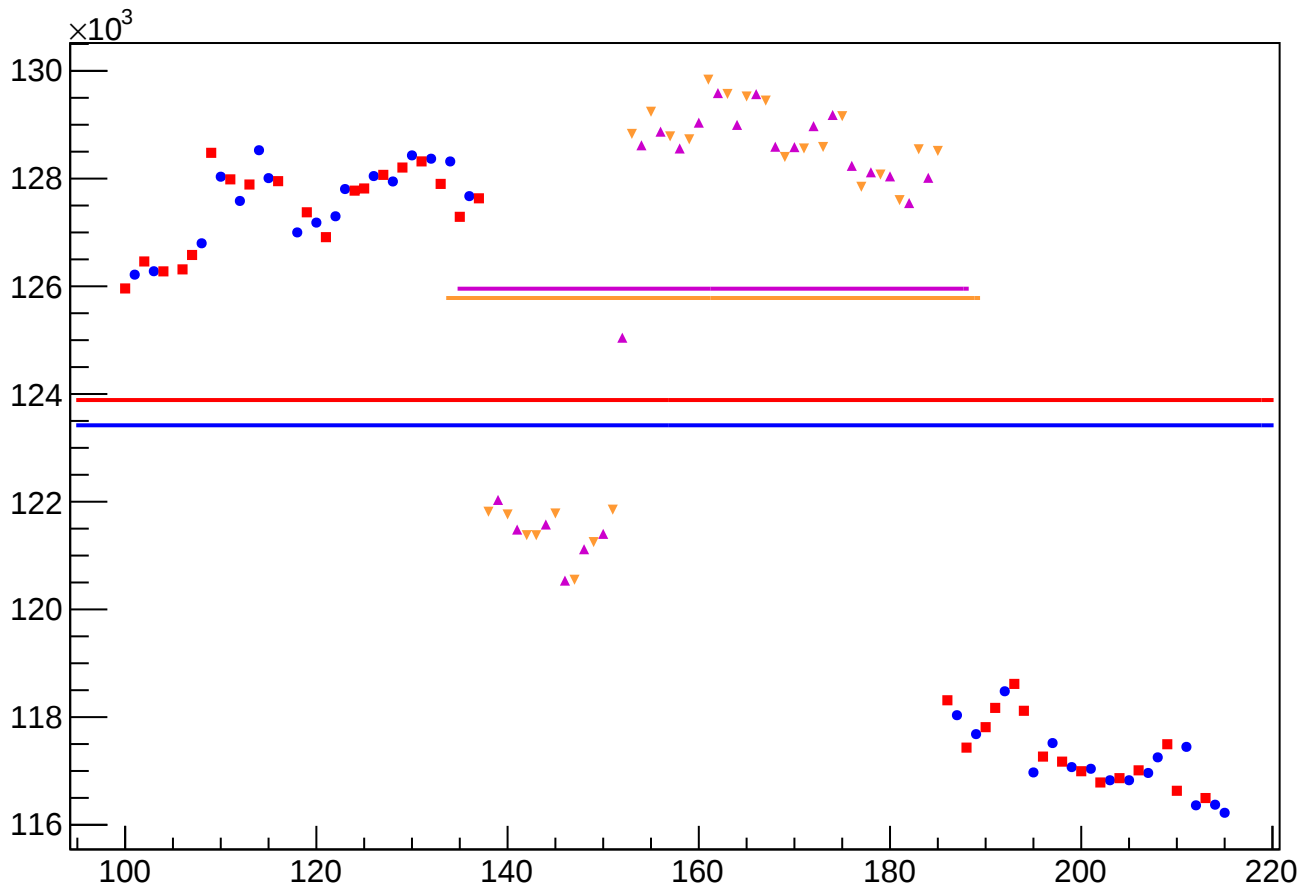
Right: 163.517+/-0.022 χ^2/NDF : 12667768.8/65

In: 180.480+/-0.023 χ^2/NDF : 7580967.7/54

Out: 173.821+/-0.022 χ^2/NDF : 7755947.8/58

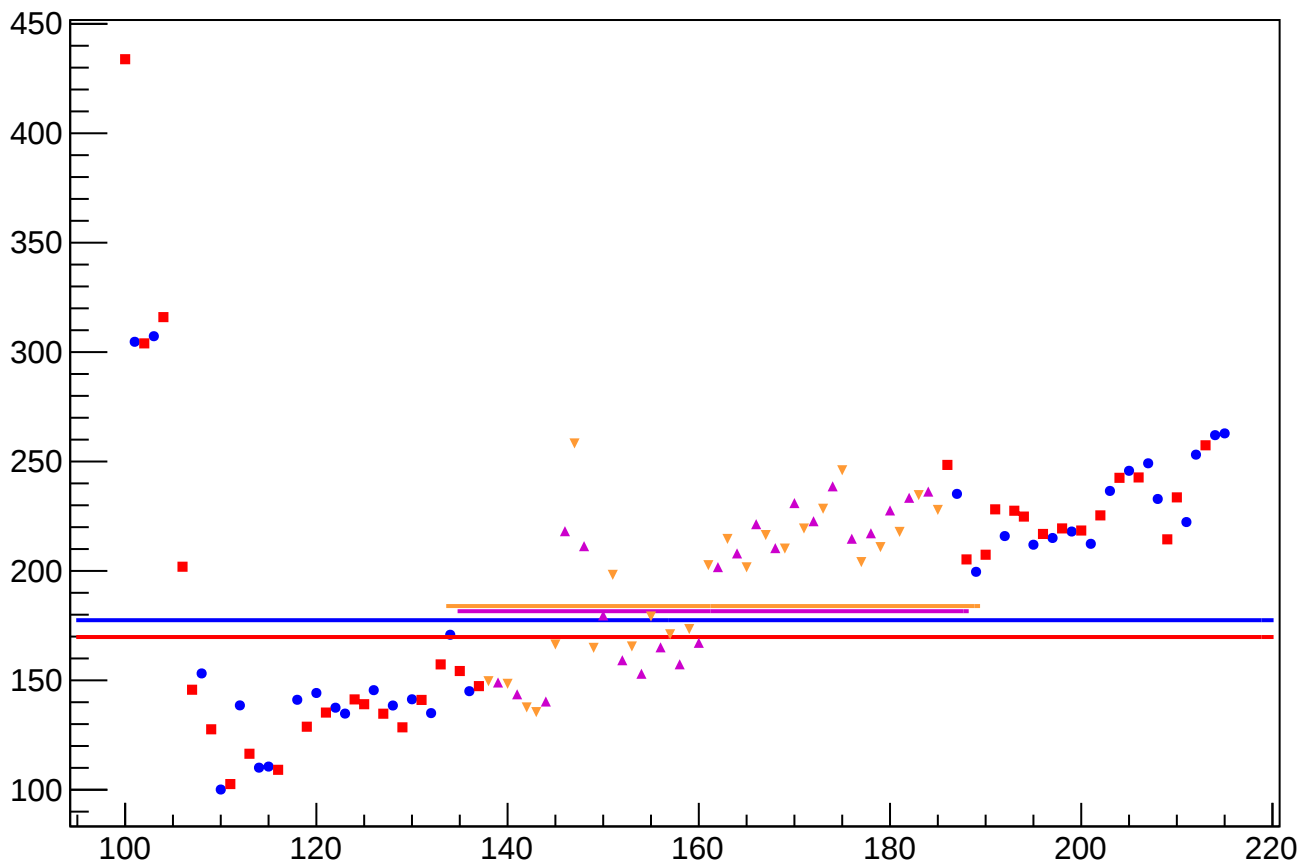
All: 176.978+/-0.016 χ^2/NDF : 15380494.6/11

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123418.891 $\pm$ 0.045	χ^2 /NDF: 13525170553.4/31	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 123661.565 $\pm$ 0.031	χ^2 /NDF: 27123448326.5/24
Right Out: 123887.901 $\pm$ 0.043	χ^2 /NDF: 13541637009.1/33	In: 124687.864 $\pm$ 0.032	χ^2 /NDF: 20931221410.8/5
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 124819.883 $\pm$ 0.031	χ^2 /NDF: 21213674659.4/24
		All: 124755.624 $\pm$ 0.022	χ^2 /NDF: 42153803/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 177.485 +/- 0.032 χ^2/NDF : 2753728.6/31

Left Out: 183.947 +/- 0.031 χ^2/NDF : 1123194.0/24

Right Out: 169.794 +/- 0.031 χ^2/NDF : 2981884.4/33

Left In: 181.596 +/- 0.032 χ^2/NDF : 1103524.3/22

Left: 182.792 +/- 0.022 χ^2/NDF : 2229521.2/47

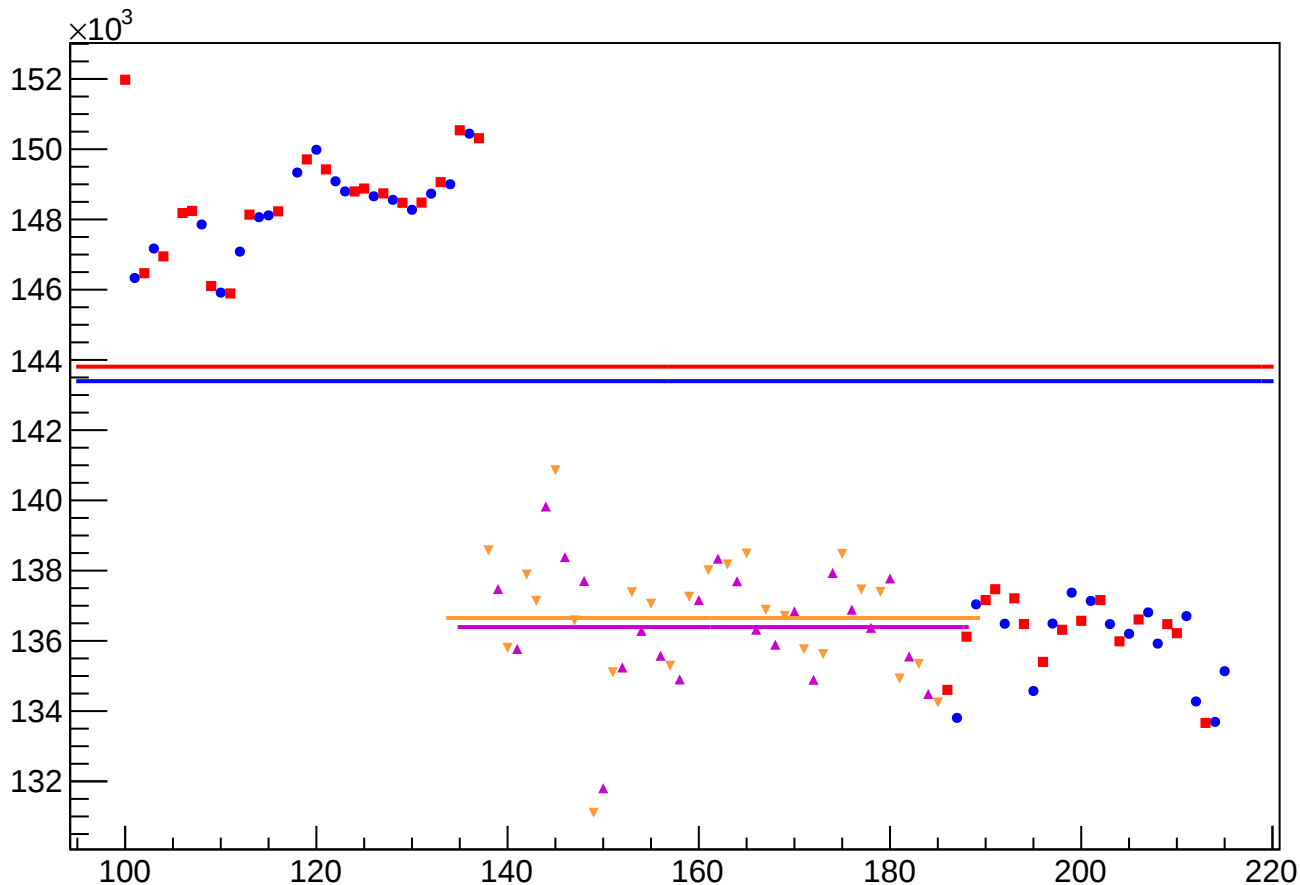
Right: 173.505 +/- 0.022 χ^2/NDF : 5766074.0/65

In: 179.541 +/- 0.022 χ^2/NDF : 3865667.8/54

Out: 176.755 +/- 0.022 χ^2/NDF : 4210213.0/58

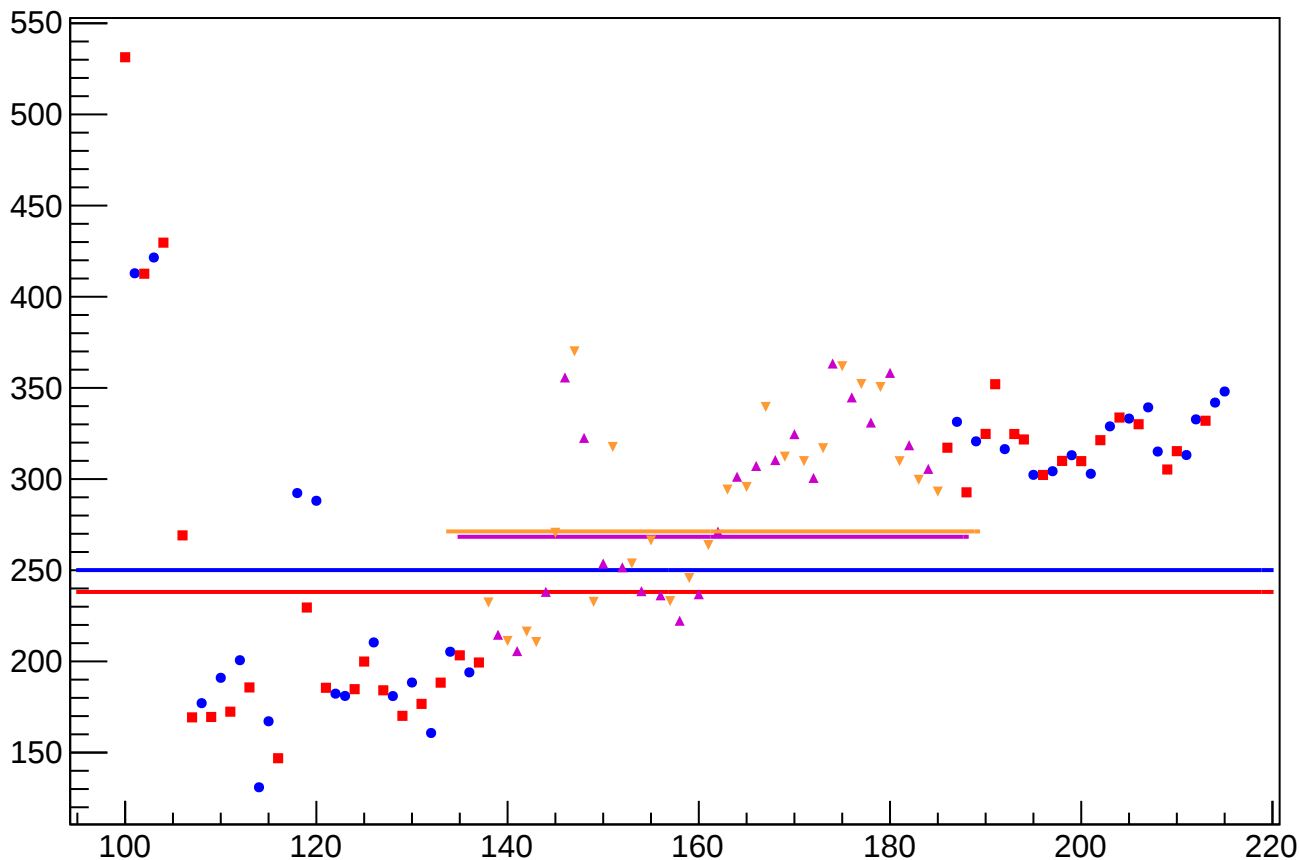
All: 178.111 +/- 0.016 χ^2/NDF : 8083816.5/113

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143394.624 $\pm$ 0.063	χ^2 /NDF: 9820532133.7/31	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: 143609.521 $\pm$ 0.044	χ^2 /NDF: 19526777976.0
Right Out: 143807.810 $\pm$ 0.061	χ^2 /NDF: 9683974740.2/33	In: 140046.561 $\pm$ 0.046	χ^2 /NDF: 16402940688.6/5
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140456.110 $\pm$ 0.044	χ^2 /NDF: 17135194037.9
		All: 140257.662 $\pm$ 0.032	χ^2 /NDF: 335796873

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 250.080+/-0.045 χ^2/NDF : 2739874.7/31

Left Out: 271.295+/-0.046 χ^2/NDF : 1064485.7/24

Right Out: 238.091+/-0.043 χ^2/NDF : 2840015.0/33

Left In: 268.344+/-0.047 χ^2/NDF : 1077364.0/22

Left: 269.850+/-0.033 χ^2/NDF : 2143892.9/47

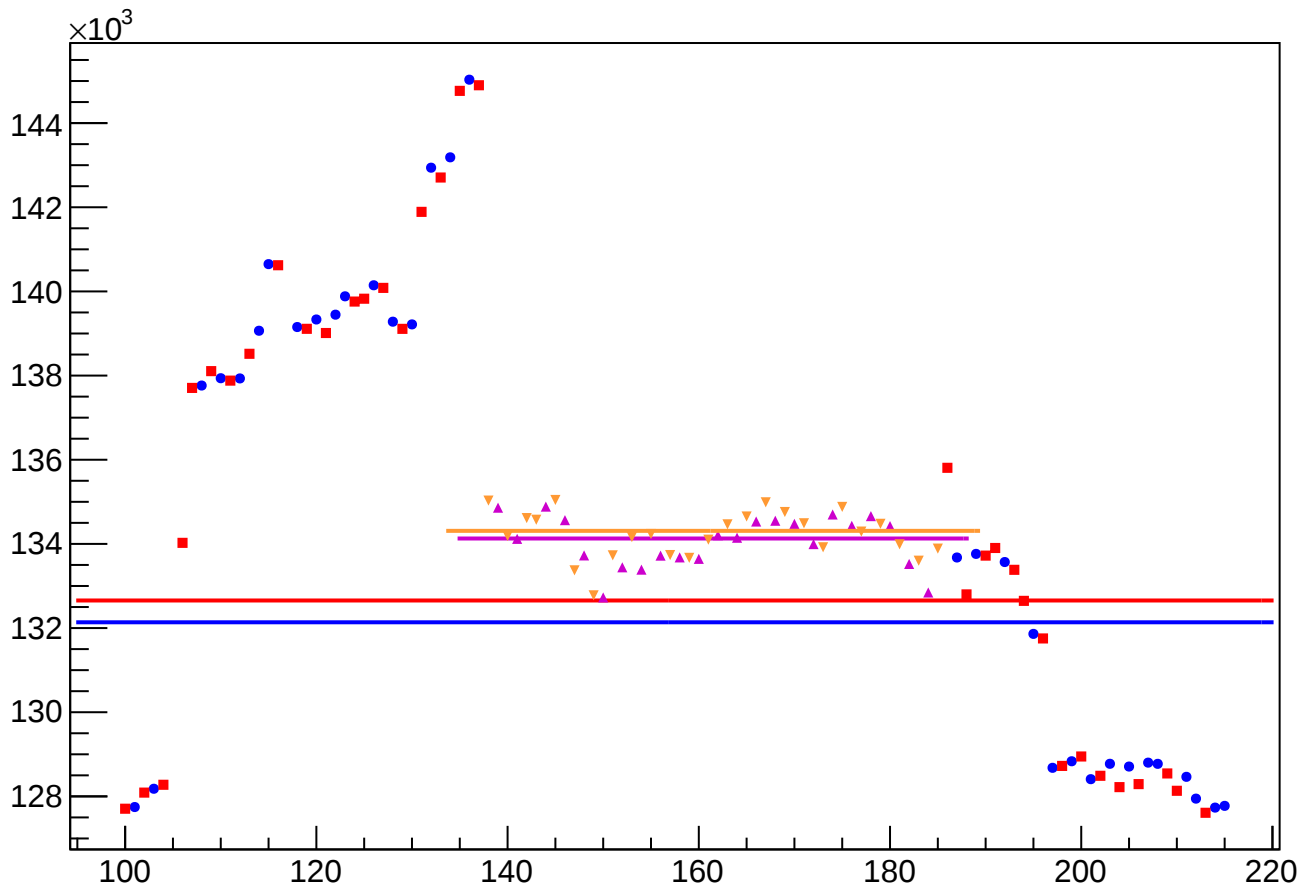
Right: 243.845+/-0.031 χ^2/NDF : 5617396.0/65

In: 258.812+/-0.032 χ^2/NDF : 3897238.8/54

Out: 253.641+/-0.031 χ^2/NDF : 4185214.7/58

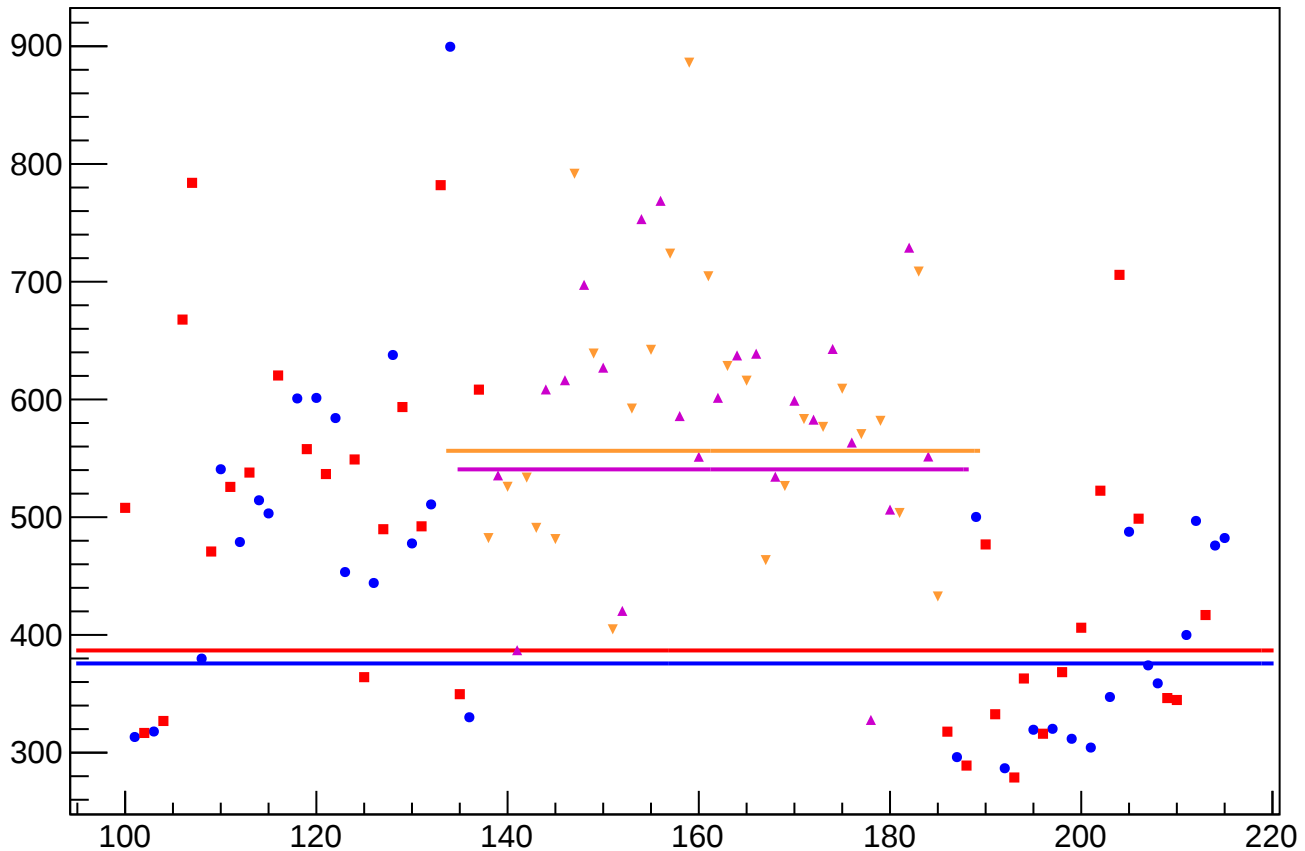
All: 256.147+/-0.022 χ^2/NDF : 8095705.0/113

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132137.151 $\pm$ 0.102	χ^2 /NDF: 2785844251.3/31	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: 132384.331 $\pm$ 0.074	χ^2 /NDF: 4737013144.3/31
Right Out: 132655.367 $\pm$ 0.107	χ^2 /NDF: 1938858065.9/33	In: 132814.923 $\pm$ 0.083	χ^2 /NDF: 2931072571.4/54
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 133272.244 $\pm$ 0.085	χ^2 /NDF: 2043854339.3/54
		All: 133038.800 $\pm$ 0.059	χ^2 /NDF: 498984530.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 375.767 ± 0.072 χ^2/NDF : 1541486.2/31

Left Out: 556.381 ± 0.098 χ^2/NDF : 1002064.0/24

Right Out: 386.812 ± 0.076 χ^2/NDF : 1940835.4/33

Left In: 540.607 ± 0.100 χ^2/NDF : 1409015.2/22

Left: 548.687 ± 0.070 χ^2/NDF : 2423723.9/47

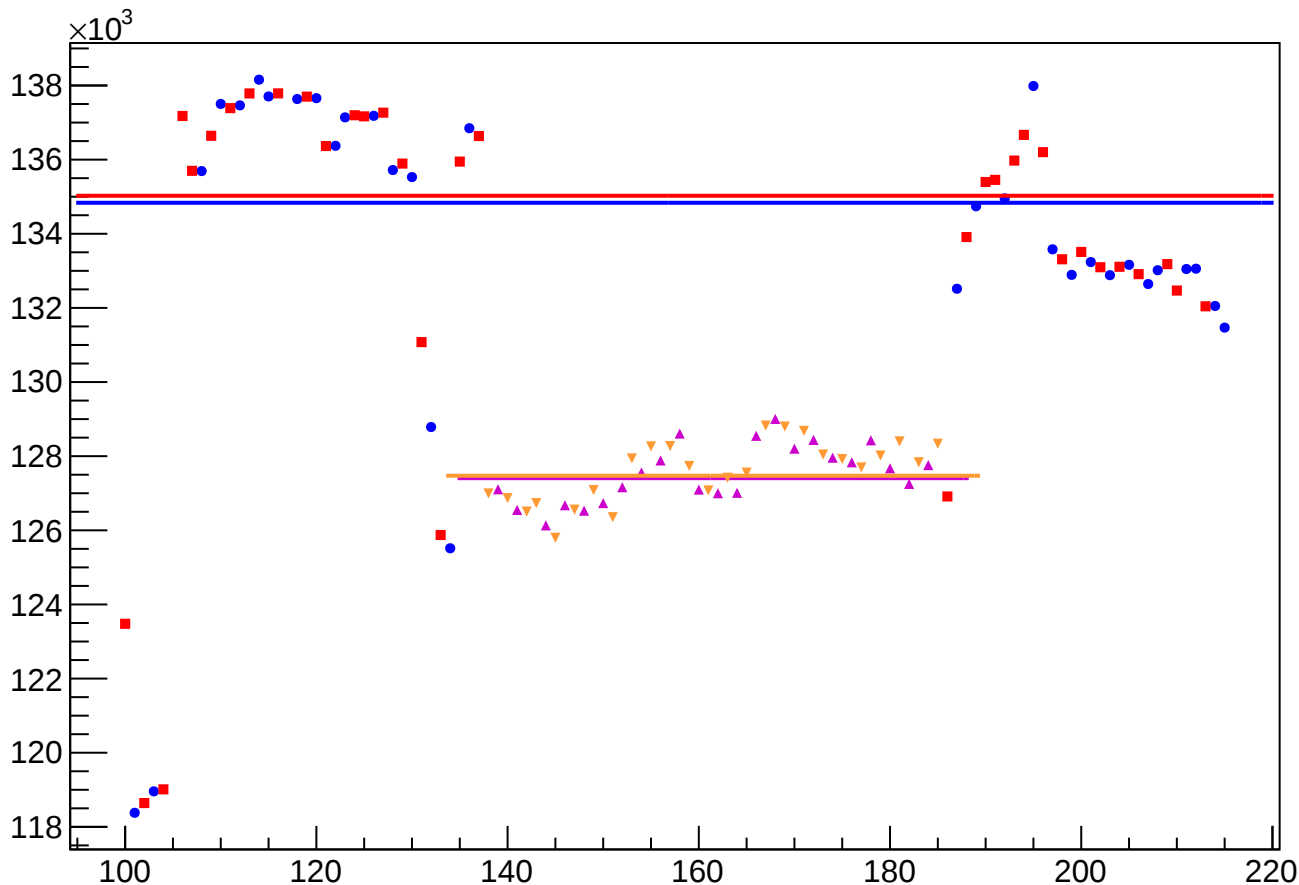
Right: 381.035 ± 0.052 χ^2/NDF : 3493507.4/65

In: 431.881 ± 0.059 χ^2/NDF : 4728484.4/54

Out: 450.021 ± 0.060 χ^2/NDF : 4821807.0/58

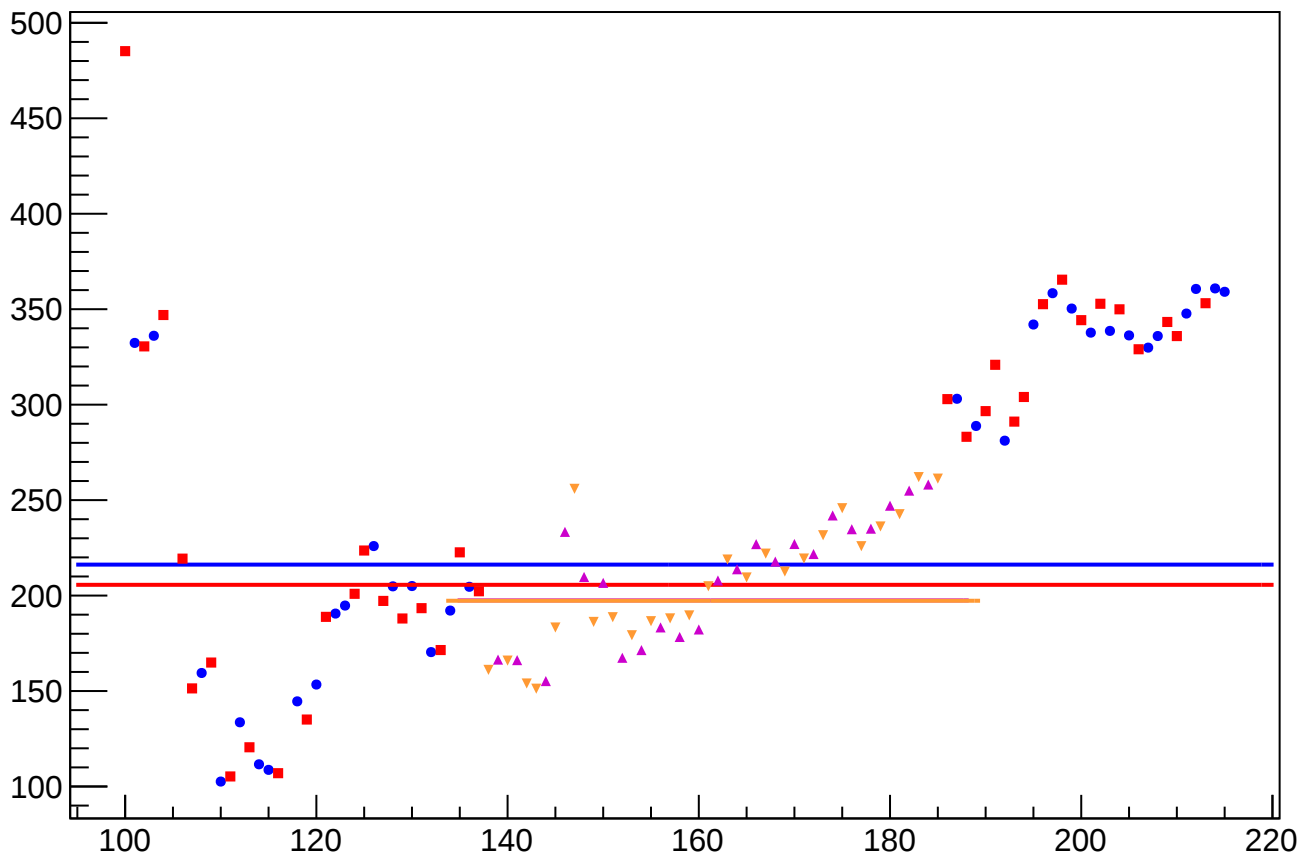
All: 440.761 ± 0.042 χ^2/NDF : 9597238.5/113

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134836.321+/-0.057	χ^2/NDF : 5016601251.8/31	Left: 127440.757+/-0.034	χ^2/NDF : 574486725.7/47
Left Out: 127472.525+/-0.047	χ^2/NDF : 303609315.6/24	Right: 134934.934+/-0.039	χ^2/NDF : 10354124684.0/31
Right Out: 135025.730+/-0.055	χ^2/NDF : 5331757099.7/33	In: 130522.171+/-0.037	χ^2/NDF : 15181574433.5/50
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130675.157+/-0.036	χ^2/NDF : 16653605015.5/31
		All: 130601.396+/-0.026	χ^2/NDF : 318441030.0/31

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 216.219 $\pm$ 0.040 χ^2 /NDF: 5123753.9/31

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 205.632 $\pm$ 0.039 χ^2 /NDF: 5281832.3/33

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

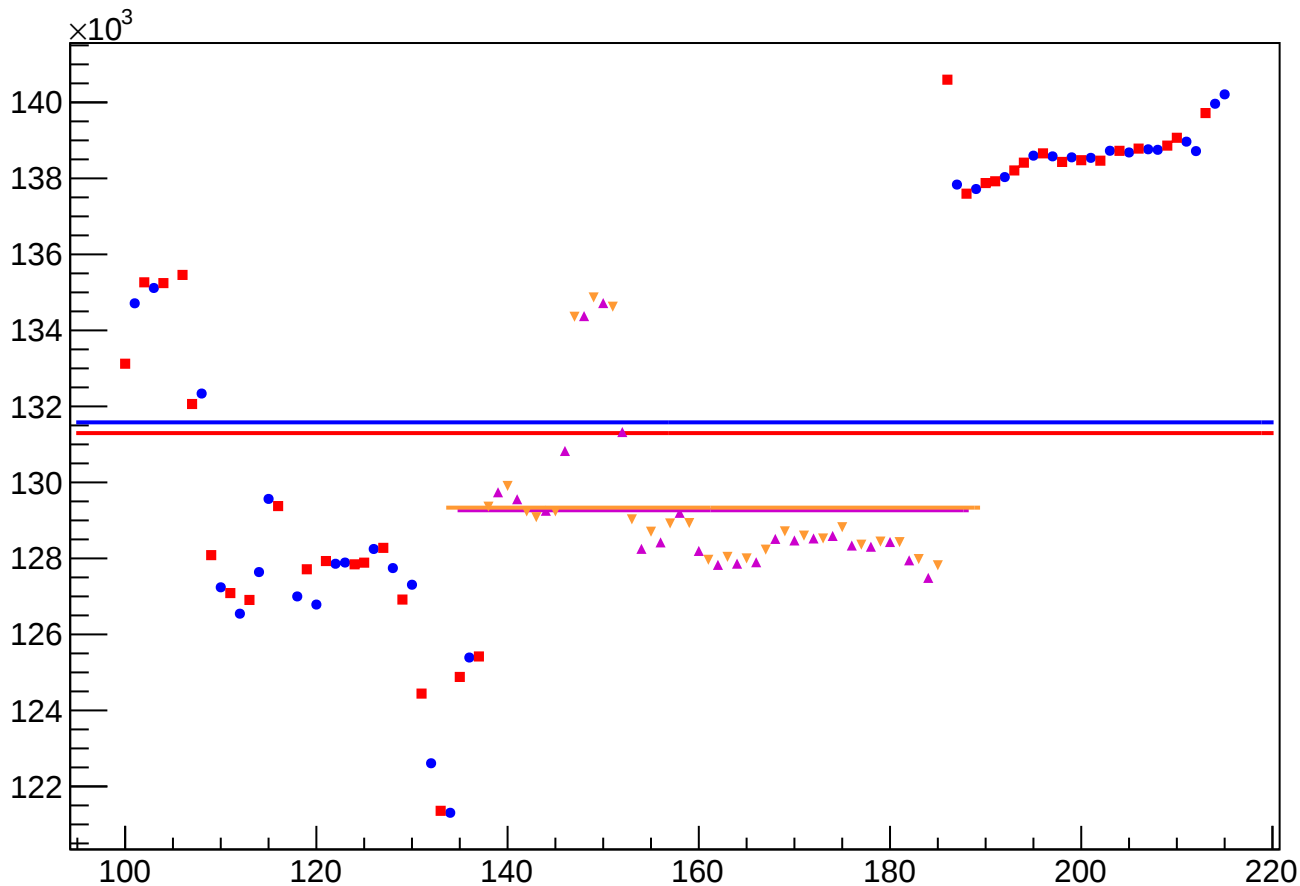
Right: 210.707 $\pm$ 0.028 χ^2 /NDF: 10441621.3/65

In: 205.332 $\pm$ 0.026 χ^2 /NDF: 6041357.2/54

Out: 200.827 $\pm$ 0.025 χ^2 /NDF: 6160738.2/58

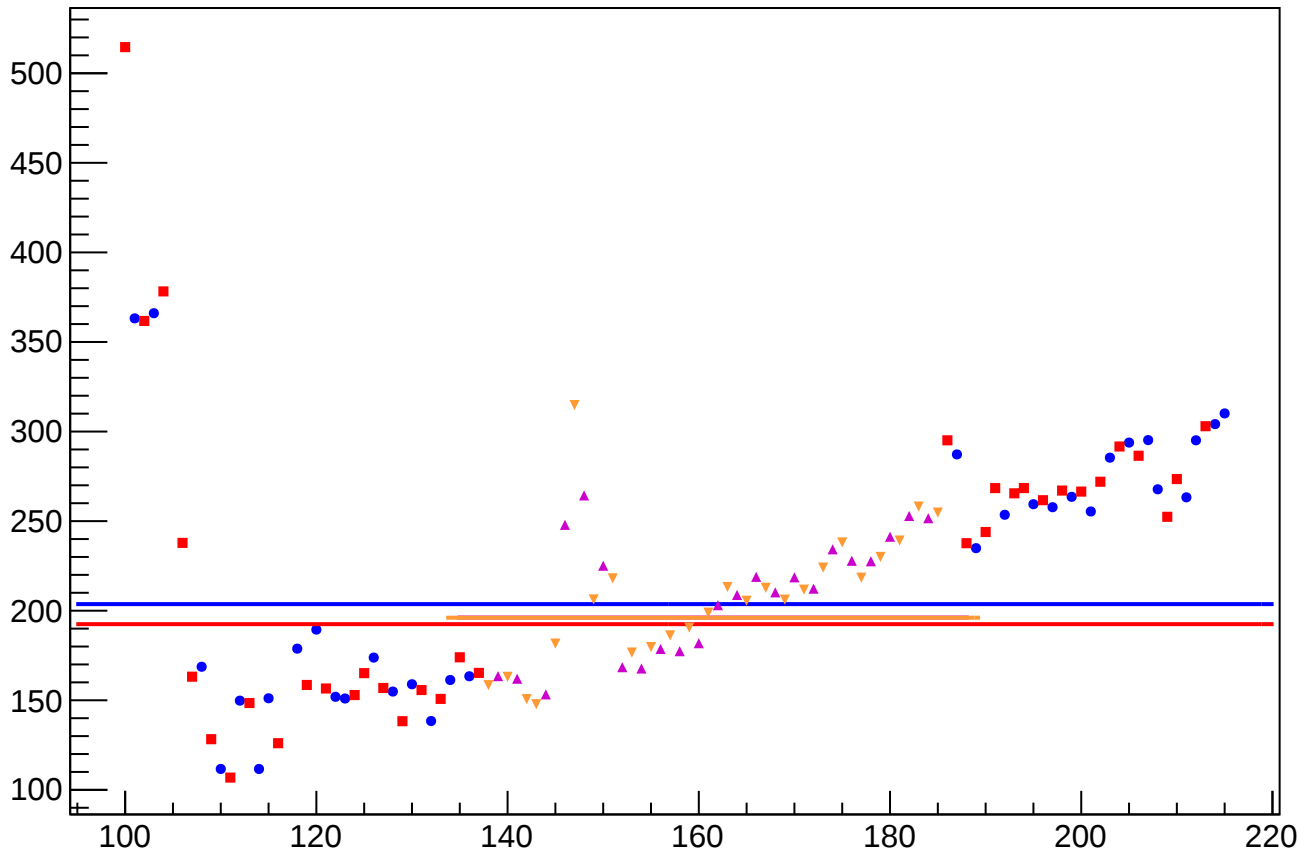
All: 202.999 $\pm$ 0.018 χ^2 /NDF: 12217577.4/11

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131580.188 $\pm$ 0.052	χ^2 /NDF: 13576127406.8/31	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: 131432.539 $\pm$ 0.036	χ^2 /NDF: 27080717104.7/5
Right Out: 131297.428 $\pm$ 0.050	χ^2 /NDF: 13489160146.0/33	In: 130334.480 $\pm$ 0.035	χ^2 /NDF: 15854892174.7/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130255.100 $\pm$ 0.034	χ^2 /NDF: 15765819360.8
		All: 130293.333 $\pm$ 0.025	χ^2 /NDF: 316233272

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 203.681+/-0.037 χ^2/NDF : 3238684.8/31

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 192.490+/-0.035 χ^2/NDF : 3608676.5/33

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

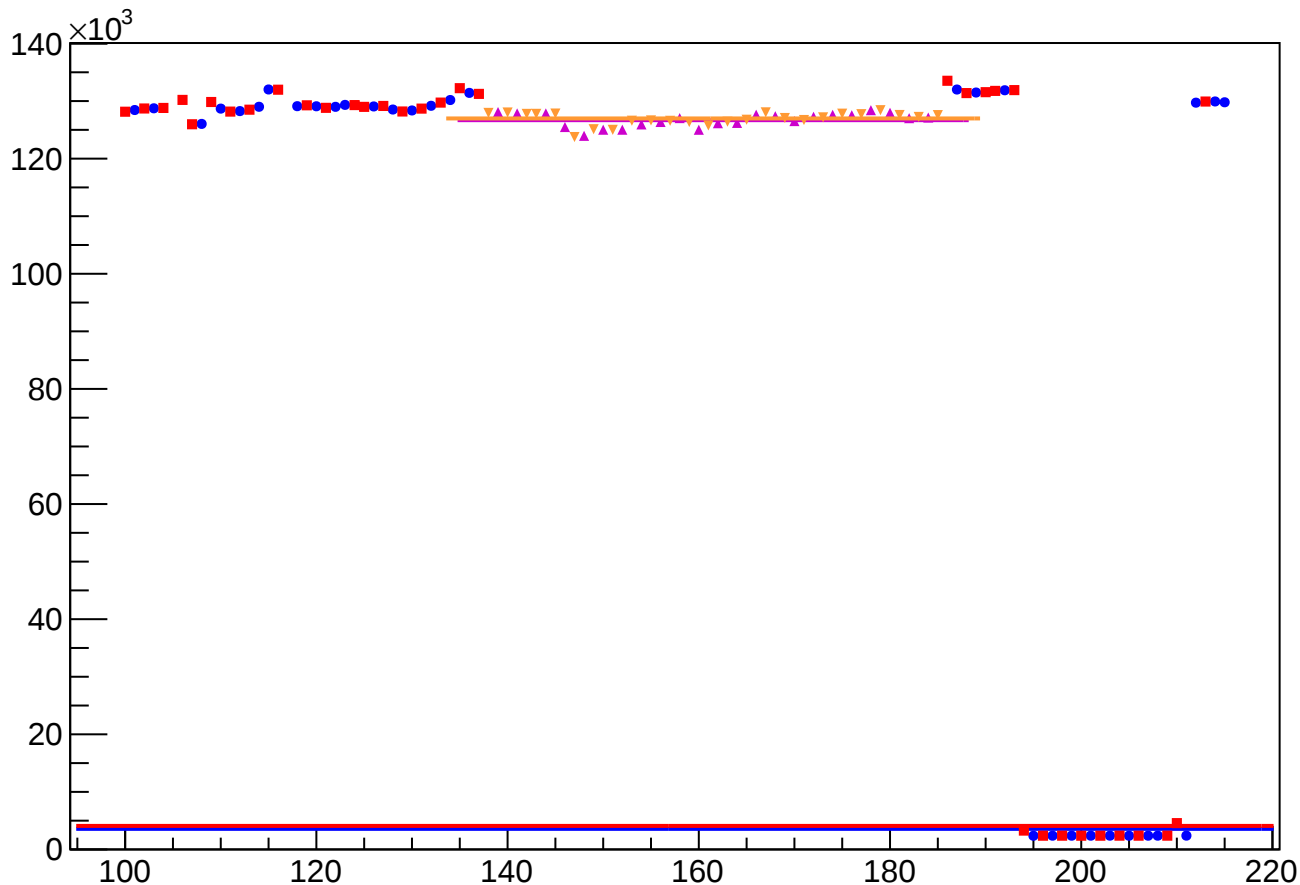
Right: 197.837+/-0.025 χ^2/NDF : 6895700.9/65

In: 199.645+/-0.025 χ^2/NDF : 4159100.8/54

Out: 194.396+/-0.024 χ^2/NDF : 4589912.6/58

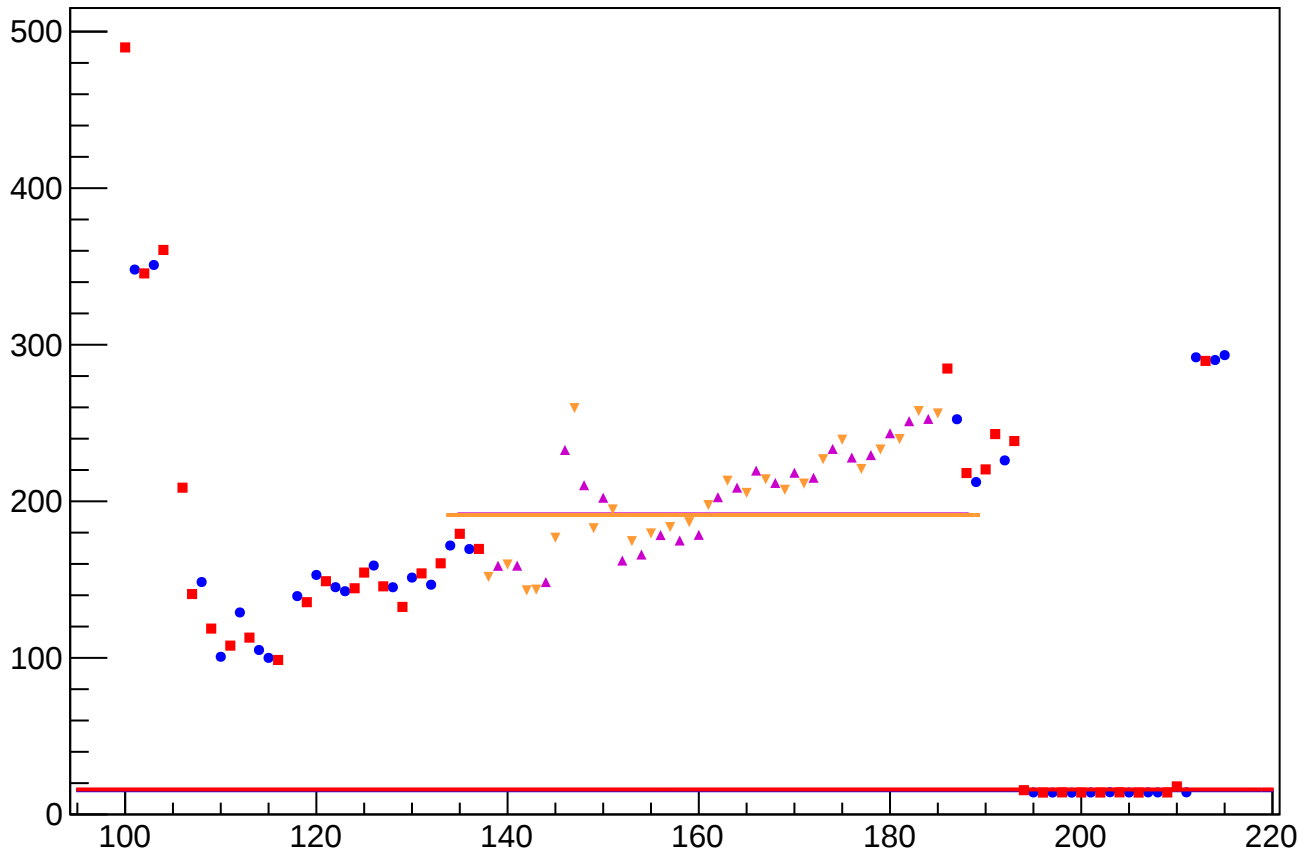
All: 196.924+/-0.017 χ^2/NDF : 8771885.7/113

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3578.723 $\pm$ 0.005 χ^2 /NDF: 5294930021711.9/31
 Left Out: 126981.724 $\pm$ 0.046 χ^2 /NDF: 530573115.8/24
 Right Out: 4090.592 $\pm$ 0.006 χ^2 /NDF: 5949609375147.4/33
 Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22
 All: 5563.737 $\pm$ 0.004 χ^2 /NDF: 25205775058

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.468+/-0.004 χ^2/NDF : 17191713.2/31

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 15.959+/-0.004 χ^2/NDF : 16898982.6/33

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

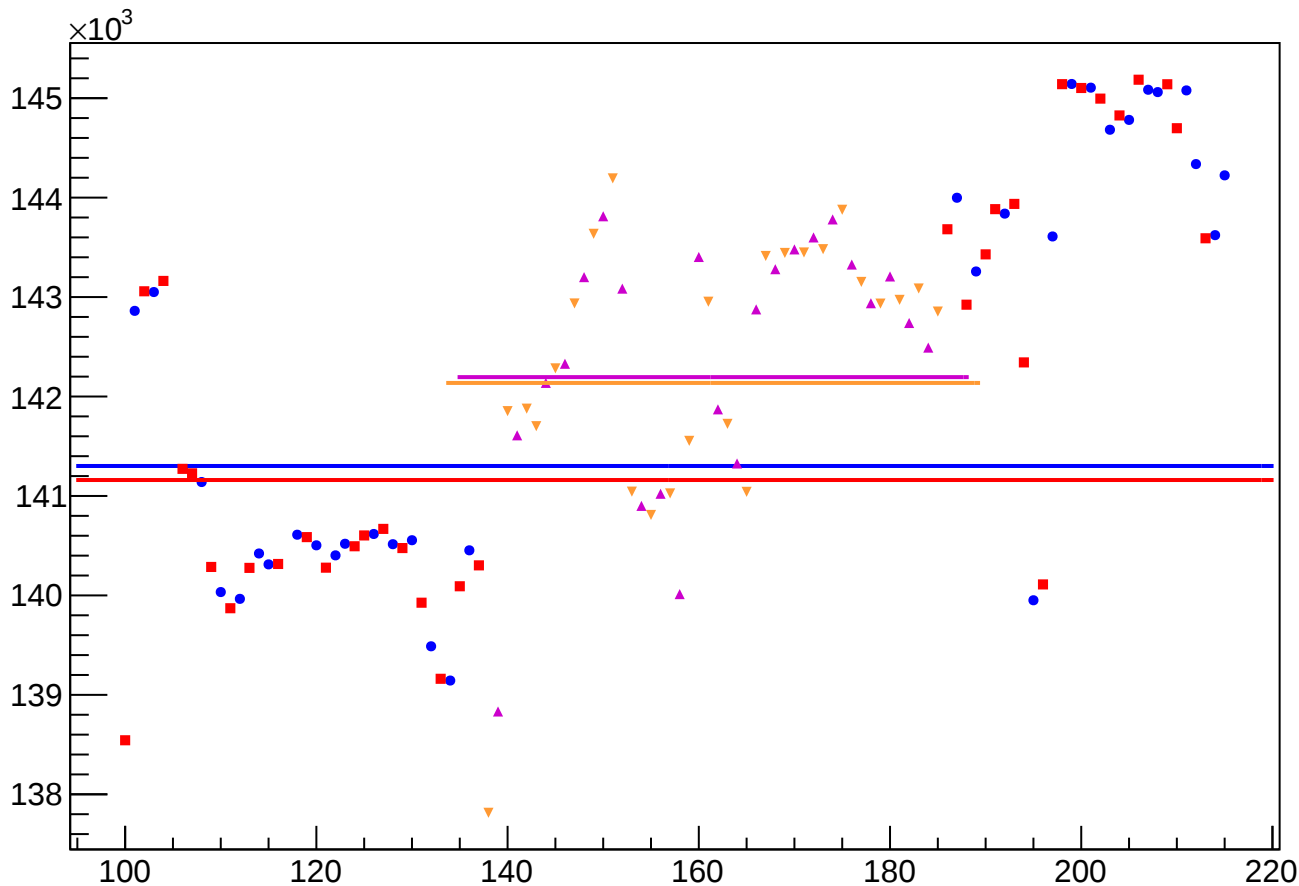
Right: 15.690+/-0.003 χ^2/NDF : 34098415.0/65

In: 17.691+/-0.004 χ^2/NDF : 45823759.3/54

Out: 18.804+/-0.004 χ^2/NDF : 47069426.4/58

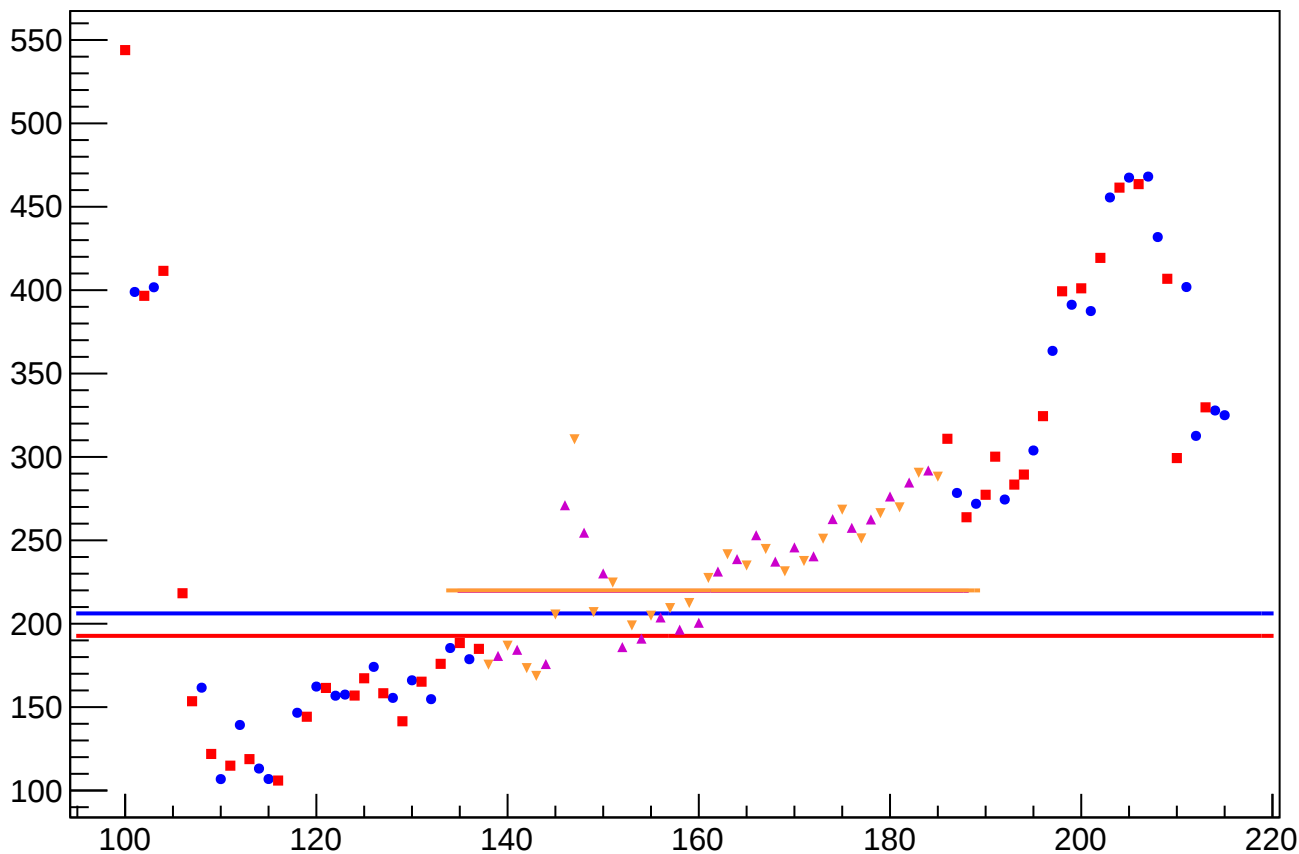
All: 18.195+/-0.003 χ^2/NDF : 92933536.1/113

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141301.502 $\pm$ 0.055	χ^2 /NDF: 1014895438.9/31	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 141226.647 $\pm$ 0.038	χ^2 /NDF: 2007622214.7/5
Right Out: 141160.341 $\pm$ 0.052	χ^2 /NDF: 989282746.9/33	In: 141760.752 $\pm$ 0.039	χ^2 /NDF: 1792674818.7/5
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141646.650 $\pm$ 0.037	χ^2 /NDF: 1979544790.7/5
		All: 141701.158 $\pm$ 0.027	χ^2 /NDF: 377677978.0/1

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 206.176+/-0.039 χ^2/NDF : 6418121.2/31

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 192.723+/-0.037 χ^2/NDF : 6442104.1/33

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

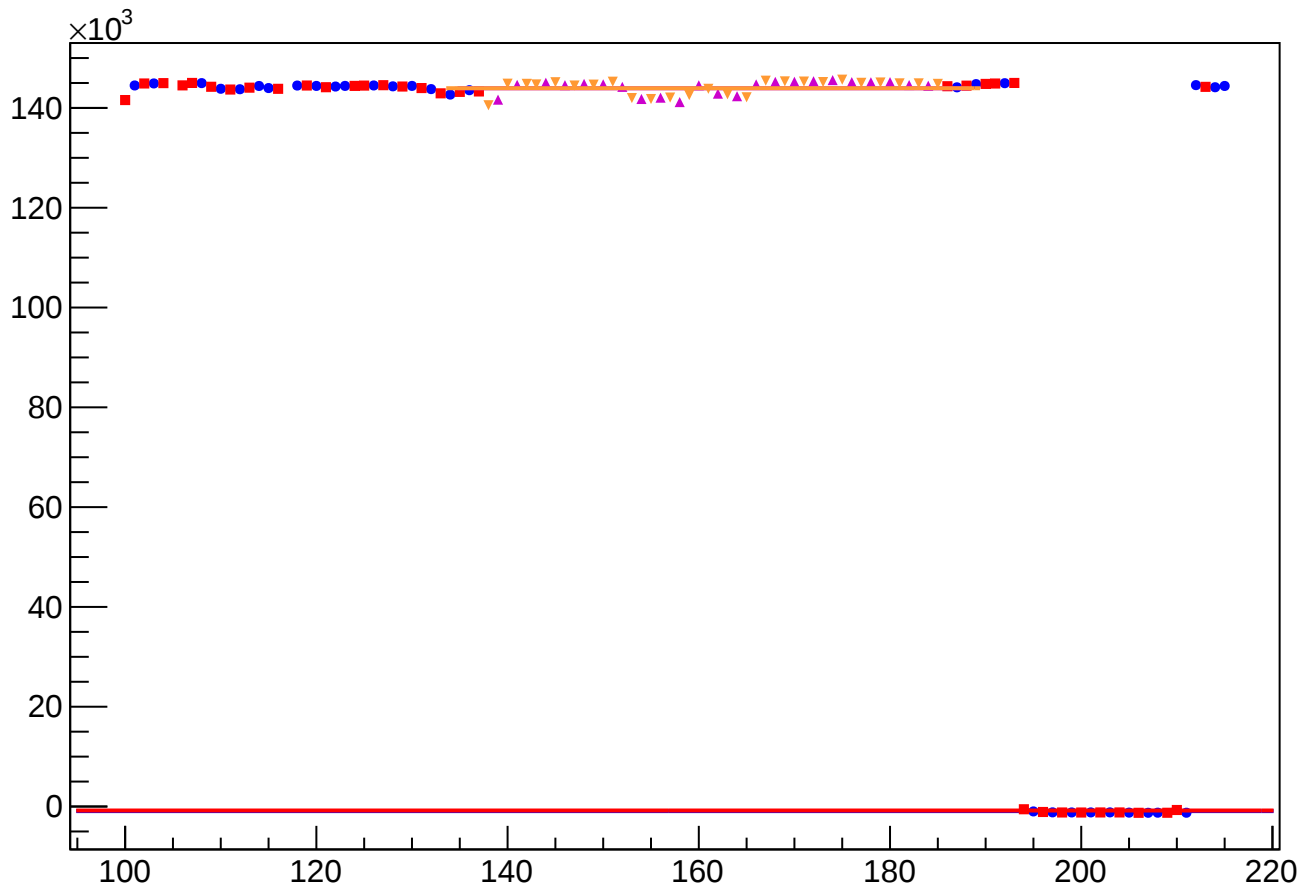
Right: 199.042+/-0.027 χ^2/NDF : 12922786.8/65

In: 213.119+/-0.027 χ^2/NDF : 7292009.1/54

Out: 206.295+/-0.026 χ^2/NDF : 7580865.7/58

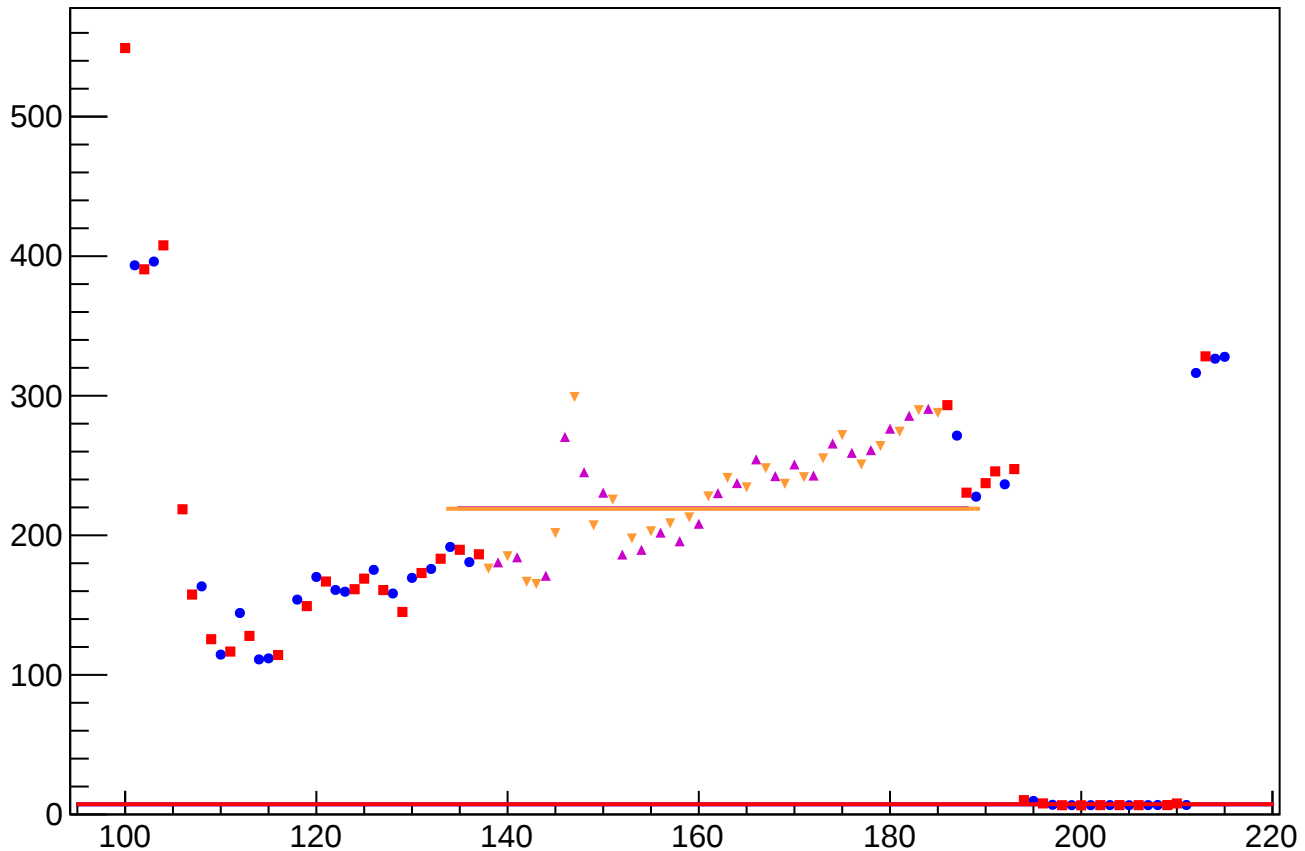
All: 209.555+/-0.019 χ^2/NDF : 14905491.9/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -919.741 ± 0.003 $\chi^2/\text{NDF}: 5736936268228.3/31$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/31$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -865.458 ± 0.002 $\chi^2/\text{NDF}: 12283314463356$
 Right Out: -800.010 ± 0.003 $\chi^2/\text{NDF}: 6545442711476.7/33$ In: -573.401 ± 0.003 $\chi^2/\text{NDF}: 12958968447942.3/33$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: -355.289 ± 0.003 $\chi^2/\text{NDF}: 14231212974702.9/33$
 All: -474.479 ± 0.002 $\chi^2/\text{NDF}: 27193294462$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.237 $\pm$ 0.002 χ^2 /NDF: 19072564.9/31

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.321 $\pm$ 0.002 χ^2 /NDF: 18867640.7/33

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

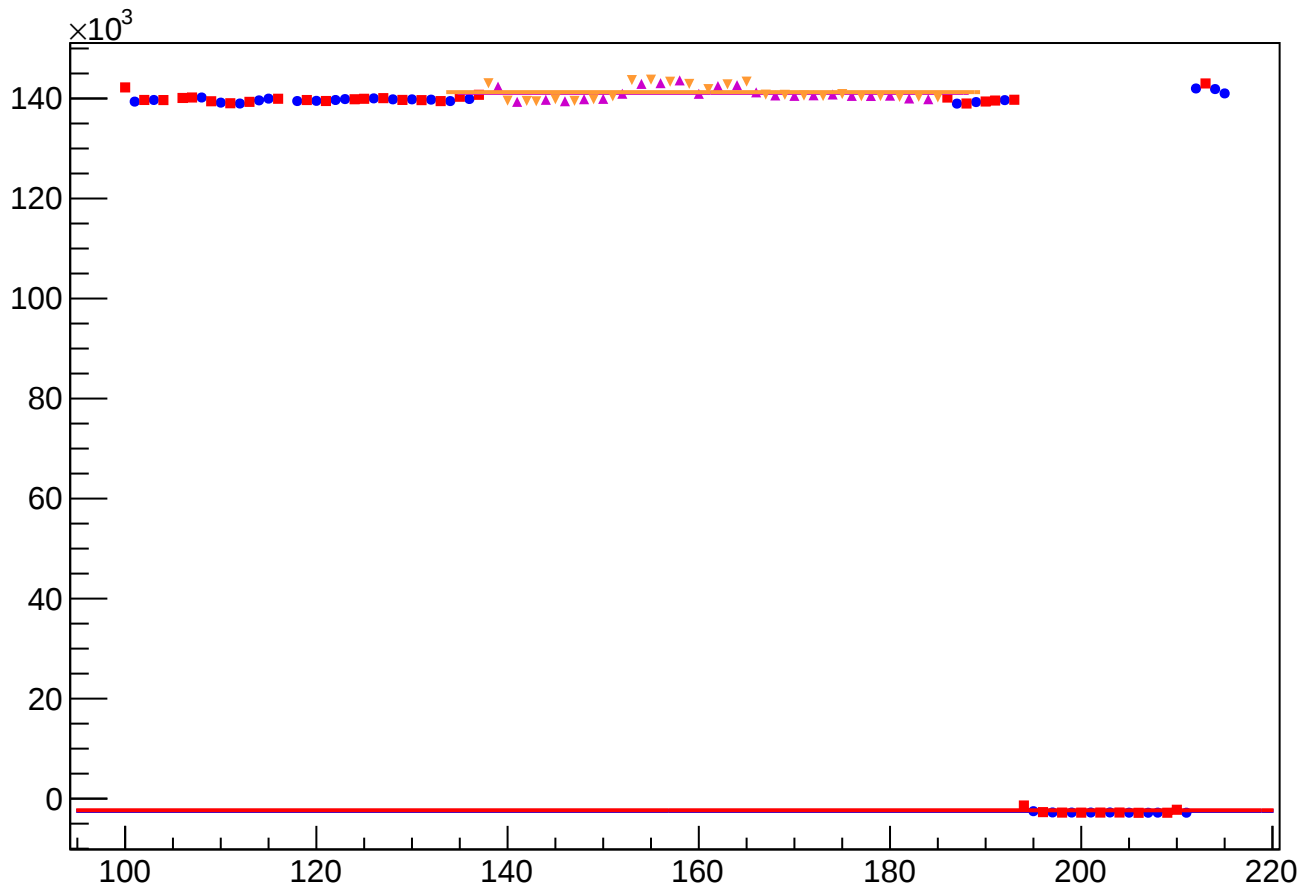
Right: 7.275 $\pm$ 0.001 χ^2 /NDF: 37941112.5/65

In: 7.745 $\pm$ 0.002 χ^2 /NDF:50911397.9/54

Out: 7.971 $\pm$ 0.002 χ^2 /NDF:52686004.4/58

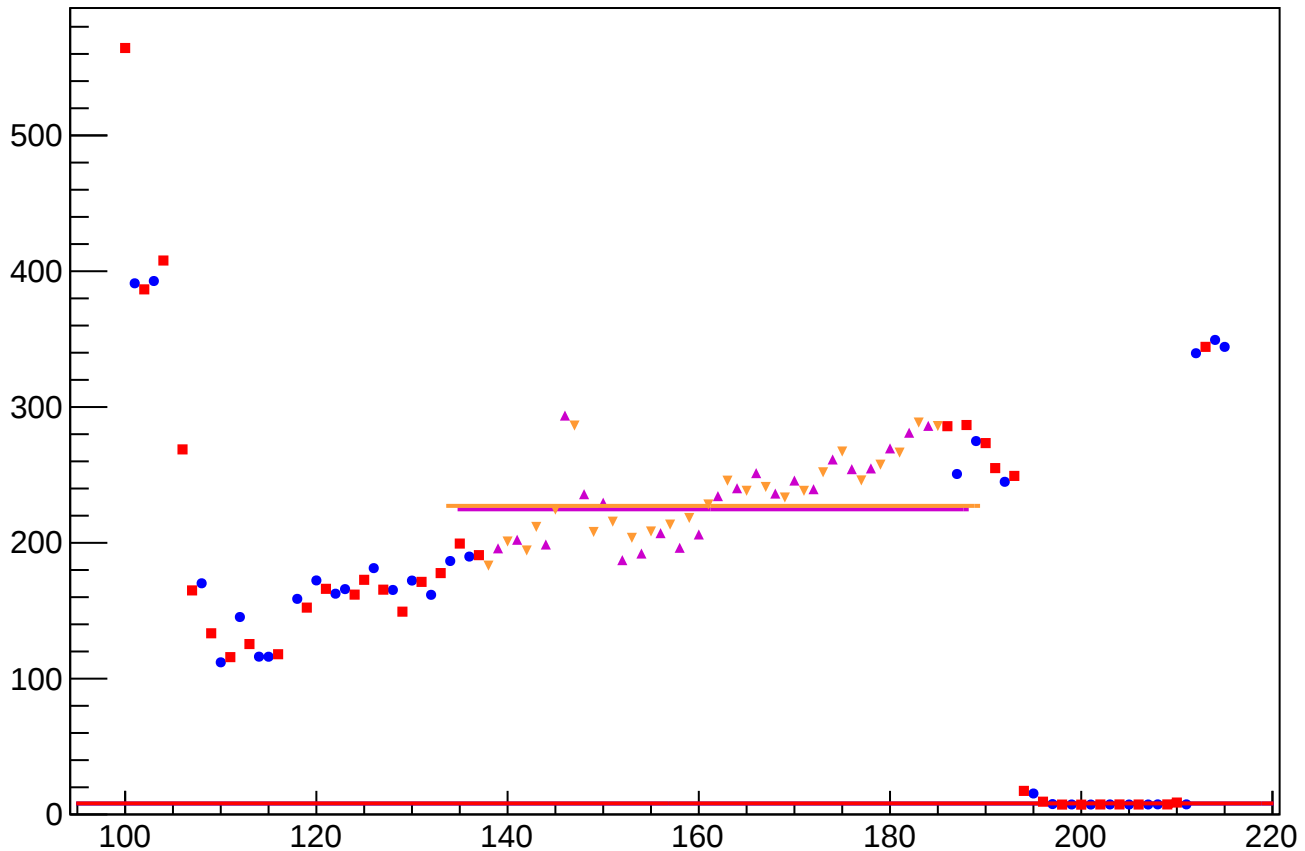
All: 7.847 $\pm$ 0.001 χ^2 /NDF: 103604118.6/113

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2458.922 $\pm$ 0.003	χ^2 /NDF: 5245568962203.0/31	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: -2399.242 $\pm$ 0.002	χ^2 /NDF: 1116798595688.0/3
Right Out: -2327.246 $\pm$ 0.003	χ^2 /NDF: 5921513755819.4/33	In: -2045.891 $\pm$ 0.003	χ^2 /NDF: 12062383981366.0/3
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1806.477 $\pm$ 0.003	χ^2 /NDF: 13047147470074.0/3
		All: -1937.336 $\pm$ 0.002	χ^2 /NDF: 2511252730.0/3

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.034 $\pm$ 0.002 χ^2 /NDF: 19208002.3/31

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF: 484955.3/24

Right Out: 8.144 $\pm$ 0.002 χ^2 /NDF: 18904667.9/33

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF: 578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

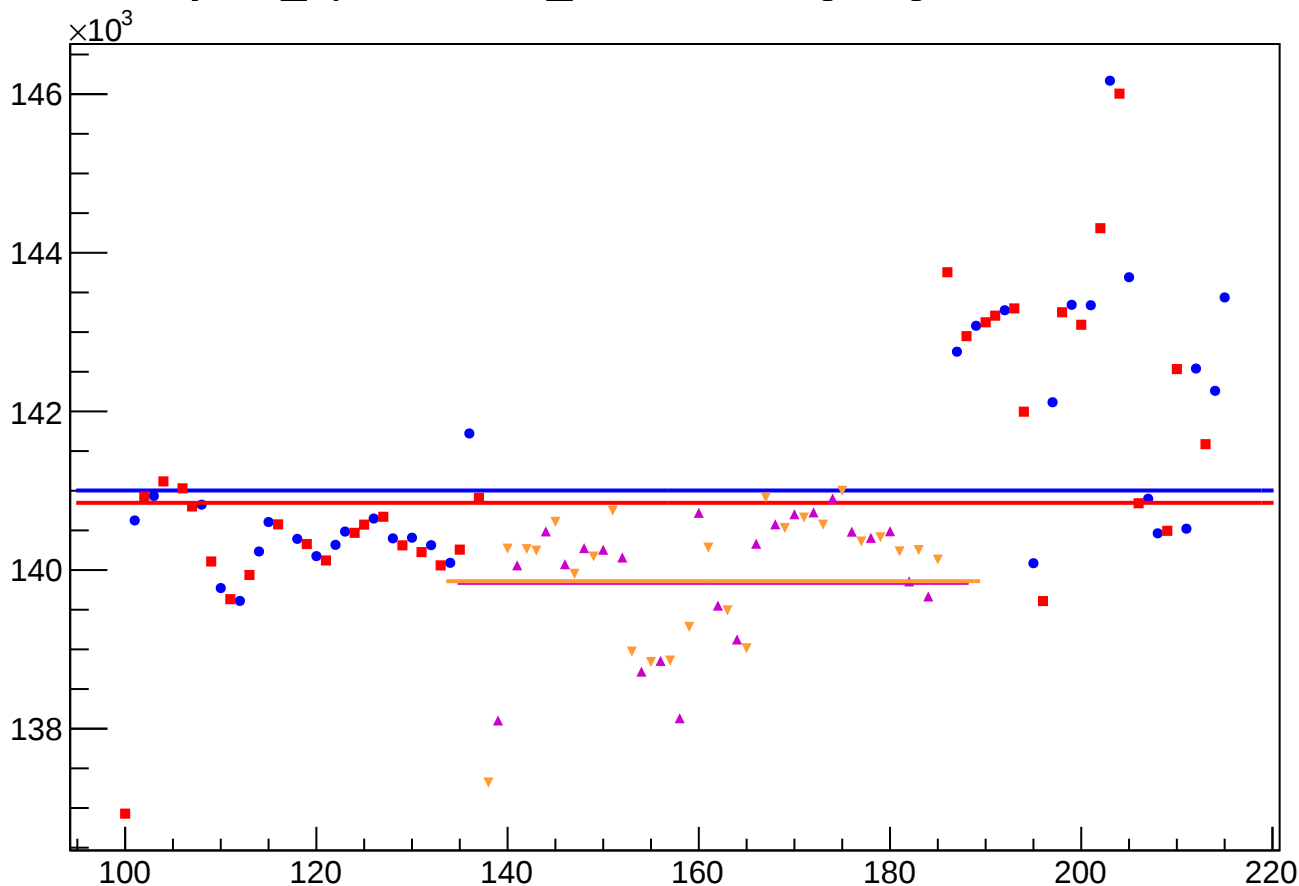
Right: 8.084 $\pm$ 0.002 χ^2 /NDF: 38113930.4/65

In: 8.658 $\pm$ 0.002 χ^2 /NDF: 50826428.5/54

Out: 8.939 $\pm$ 0.002 χ^2 /NDF: 52557995.7/58

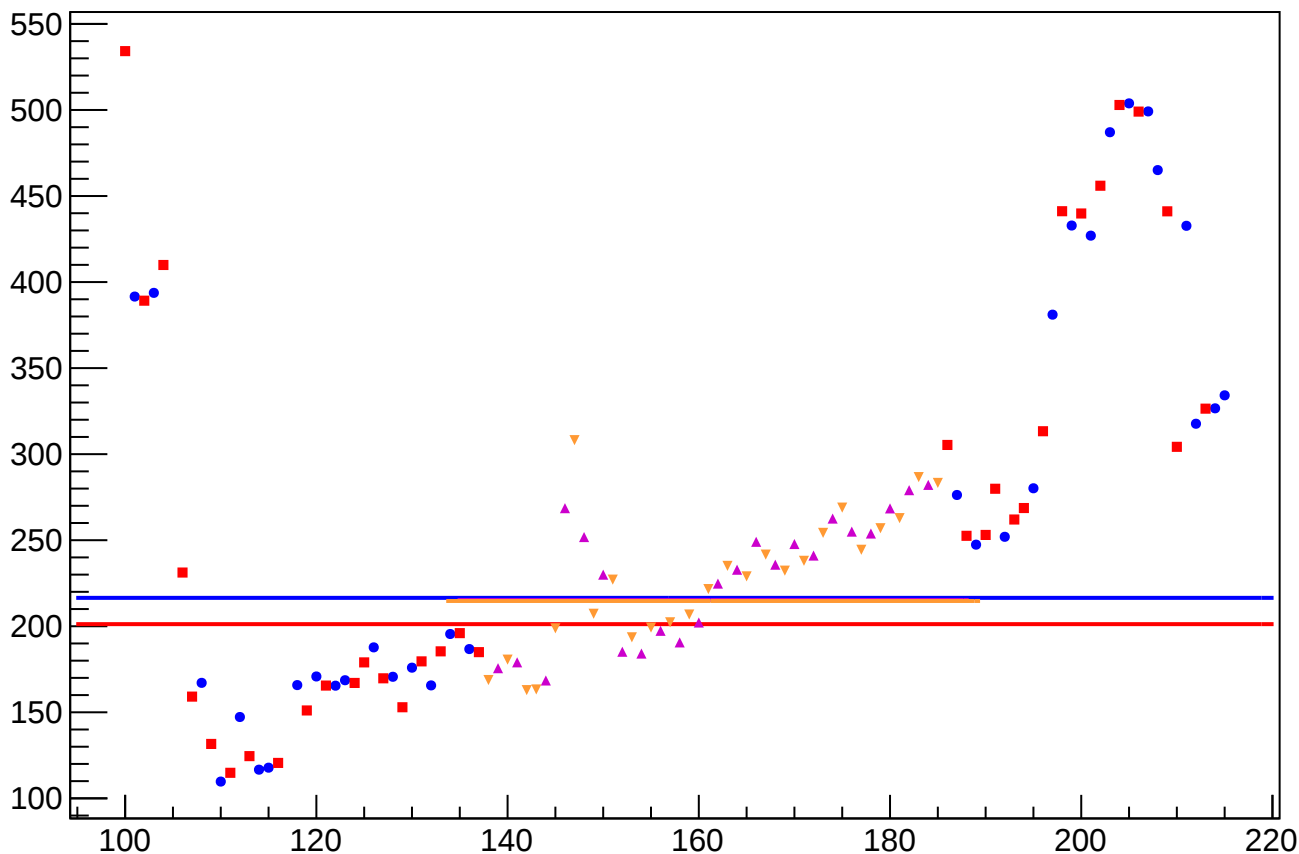
All: 8.785 $\pm$ 0.002 χ^2 /NDF: 103392693.4/113

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 141003.084 $\pm$ 0.058	χ^2 /NDF: 497751982.8/31	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: 140920.096 $\pm$ 0.040	χ^2 /NDF: 1031255881.8/31
Right Out: 140847.722 $\pm$ 0.054	χ^2 /NDF: 529662694.7/33	In: 140367.003 $\pm$ 0.039	χ^2 /NDF: 997976349.8/54
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140325.489 $\pm$ 0.037	χ^2 /NDF: 1036047472.5/54
		All: 140345.224 $\pm$ 0.027	χ^2 /NDF: 203461752.5/110

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 216.503 $\pm$ 0.041 χ^2 /NDF: 6098005.6/31

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 201.224 $\pm$ 0.038 χ^2 /NDF: 6043330.1/33

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

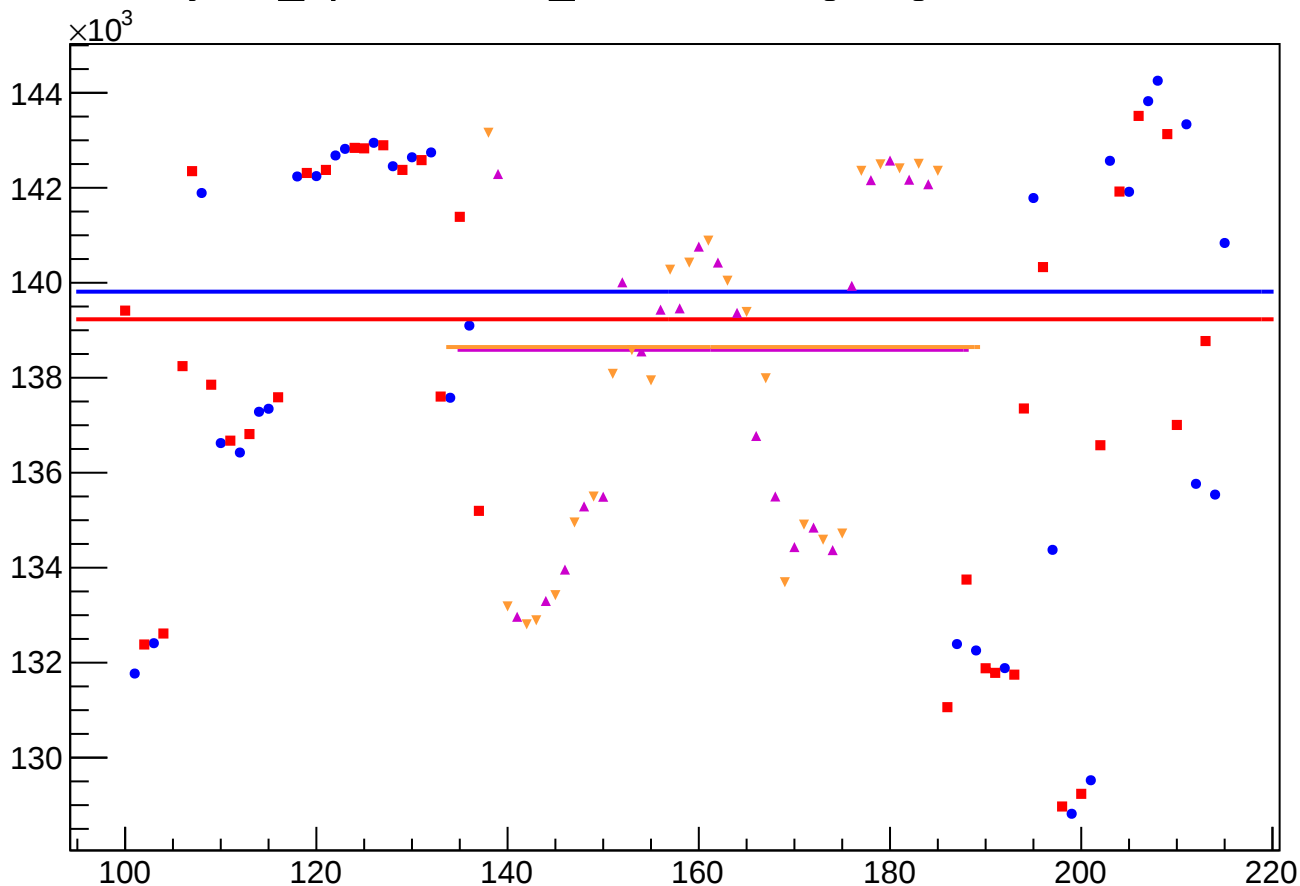
Right: 208.342 $\pm$ 0.028 χ^2 /NDF: 12215644.5/65

In: 215.803 $\pm$ 0.028 χ^2 /NDF: 6980485.4/54

Out: 208.343 $\pm$ 0.026 χ^2 /NDF: 7089949.7/58

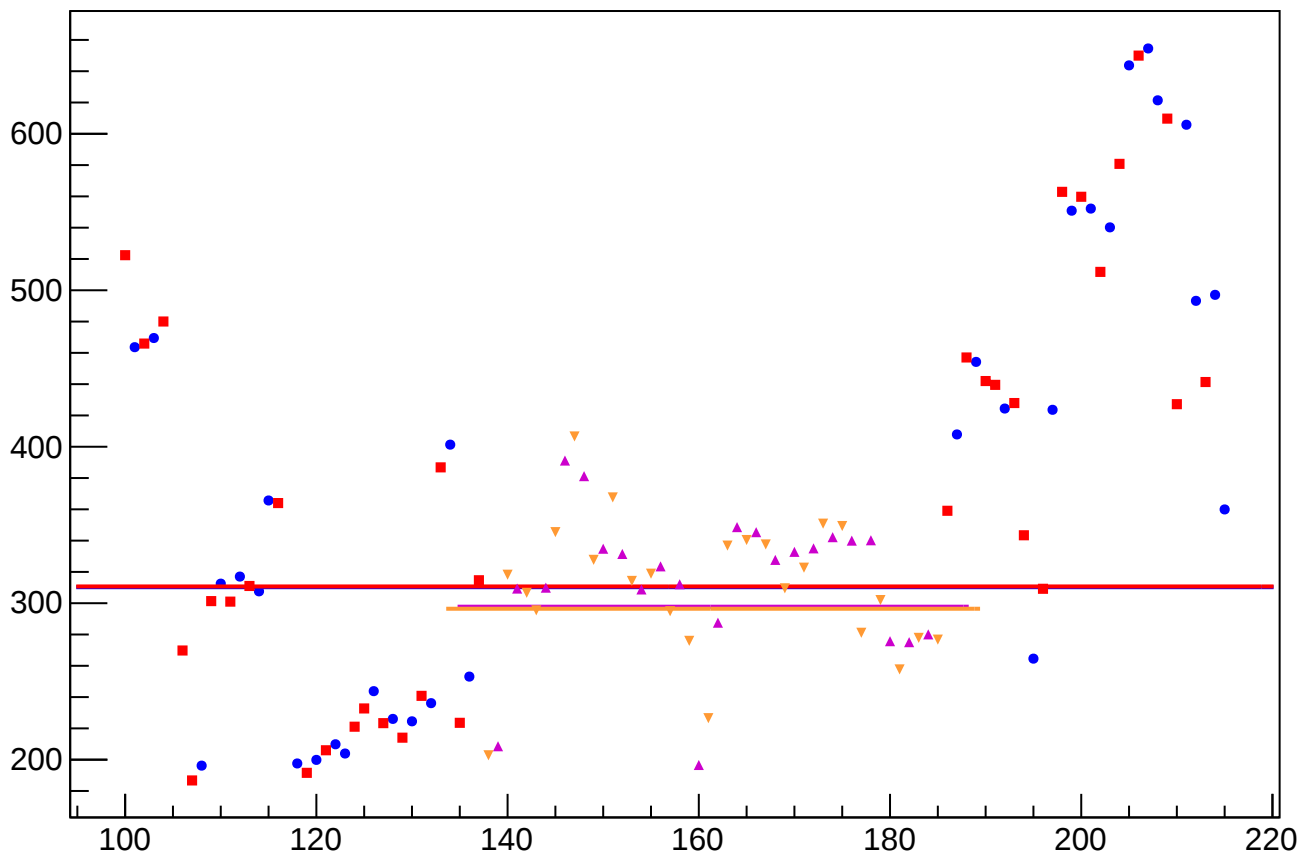
All: 211.889 $\pm$ 0.019 χ^2 /NDF: 14108780.8/11

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139812.768 $\pm$ 0.082	χ^2 /NDF: 2392743172.9/31	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 139520.936 $\pm$ 0.058	χ^2 /NDF: 4854306837.7/
Right Out: 139230.972 $\pm$ 0.082	χ^2 /NDF: 2436174988.8/33	In: 139137.011 $\pm$ 0.055	χ^2 /NDF: 4464496440.8/5
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138897.950 $\pm$ 0.053	χ^2 /NDF: 5014112274.5/5
		All: 139014.703 $\pm$ 0.038	χ^2 /NDF: 948836945

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 310.235 $\pm$ 0.058 χ^2 /NDF: 4967540.4/31

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 310.714 $\pm$ 0.058 χ^2 /NDF: 4389447.8/33

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

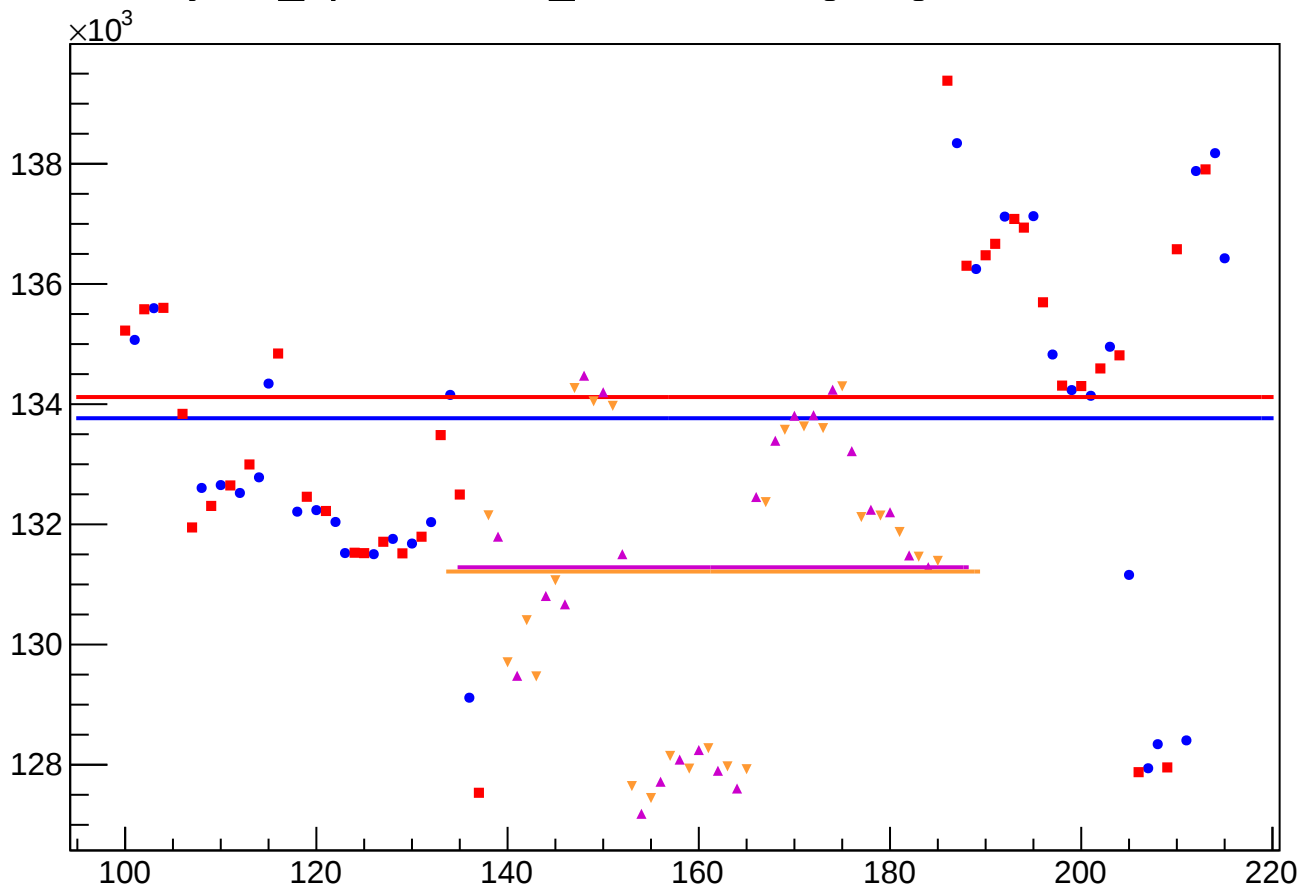
Right: 310.475 $\pm$ 0.041 χ^2 /NDF: 9357022.6/65

In: 303.356 $\pm$ 0.039 χ^2 /NDF:6054666.3/54

Out: 302.597 $\pm$ 0.038 χ^2 /NDF:5317843.1/58

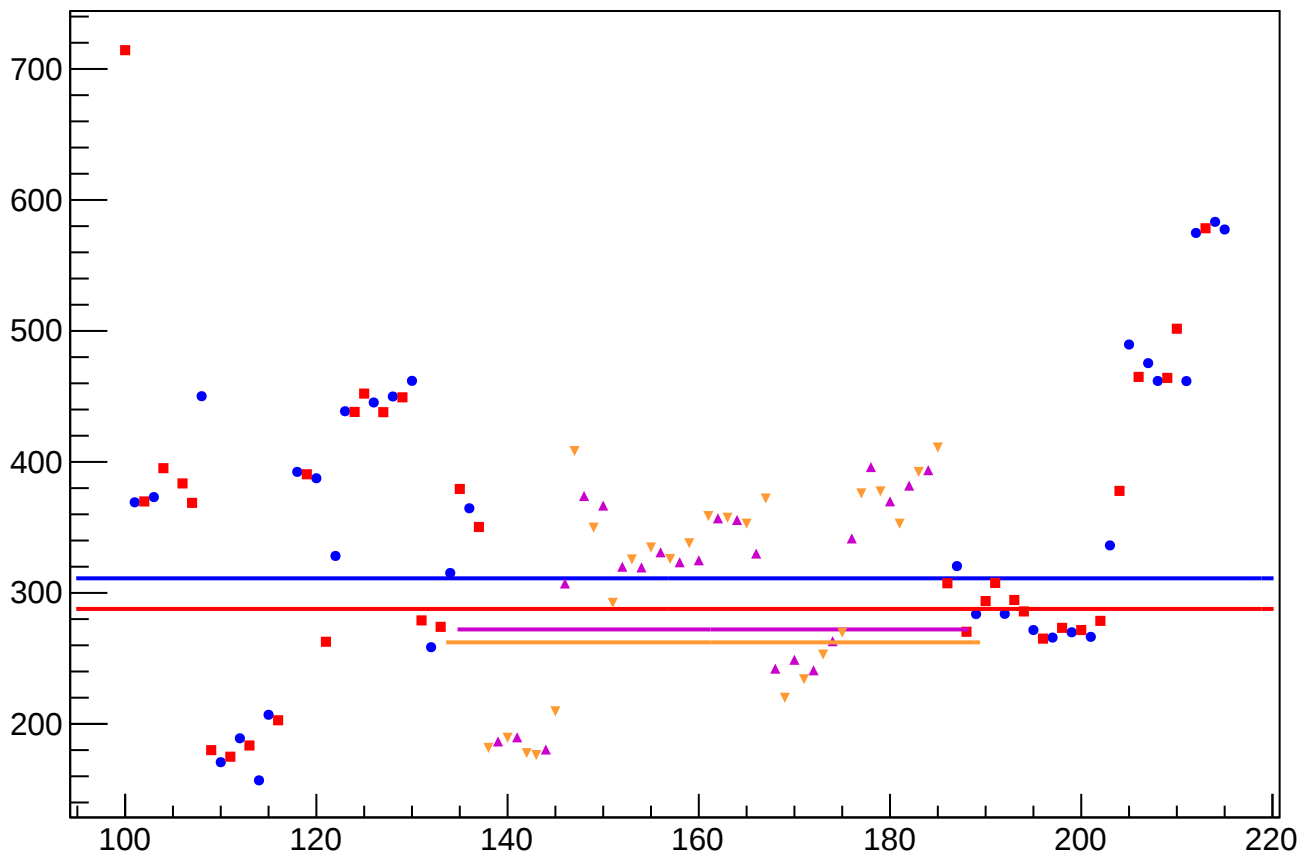
All: 302.968 $\pm$ 0.027 χ^2 /NDF: 11372706.3/11

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133766.284+/-0.079	χ^2/NDF : 1033776162.3/31	Left: 131248.166+/-0.047	χ^2/NDF : 2230223308.9/4
Left Out: 131214.985+/-0.064	χ^2/NDF : 1173424494.6/24	Right: 133955.828+/-0.054	χ^2/NDF : 2069496750.3/4
Right Out: 134118.493+/-0.074	χ^2/NDF : 1025121149.8/33	In: 132341.776+/-0.052	χ^2/NDF : 2651063486.4/54
Left In: 131285.623+/-0.068	χ^2/NDF : 1056232192.1/22	Out: 132473.718+/-0.048	χ^2/NDF : 3082072196.9/5
		All: 132412.189+/-0.035	χ^2/NDF : 573660021.1/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 311.140 ± 0.056 $\chi^2/\text{NDF}: 3418751.2/31$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 287.772 ± 0.052 $\chi^2/\text{NDF}: 2941402.7/33$

Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

Left: 266.889 ± 0.033 $\chi^2/\text{NDF}: 5062151.8/47$

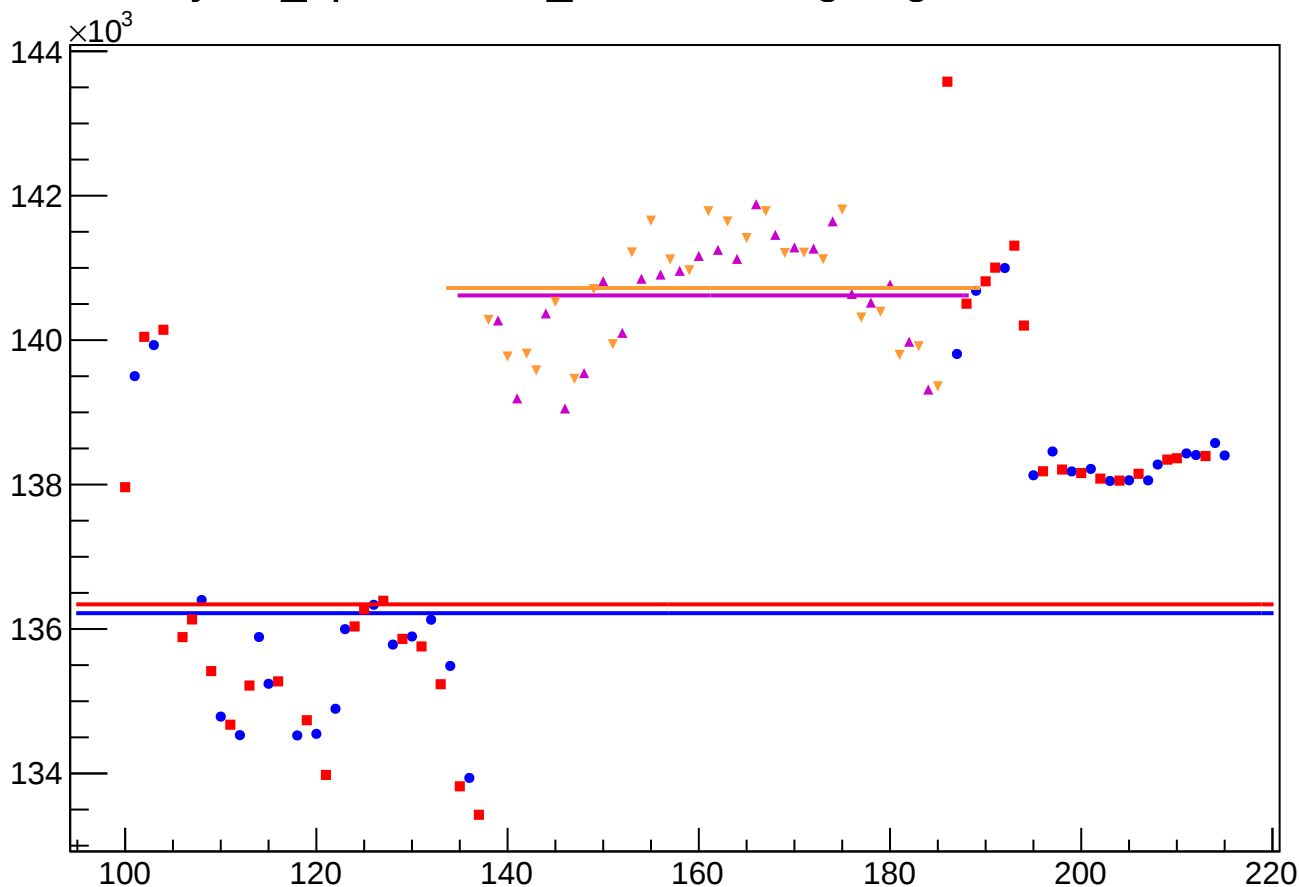
Right: 298.564 ± 0.038 $\chi^2/\text{NDF}: 6453470.1/65$

In: 288.730 ± 0.037 $\chi^2/\text{NDF}: 5918389.2/54$

Out: 273.320 ± 0.034 $\chi^2/\text{NDF}: 5896001.5/58$

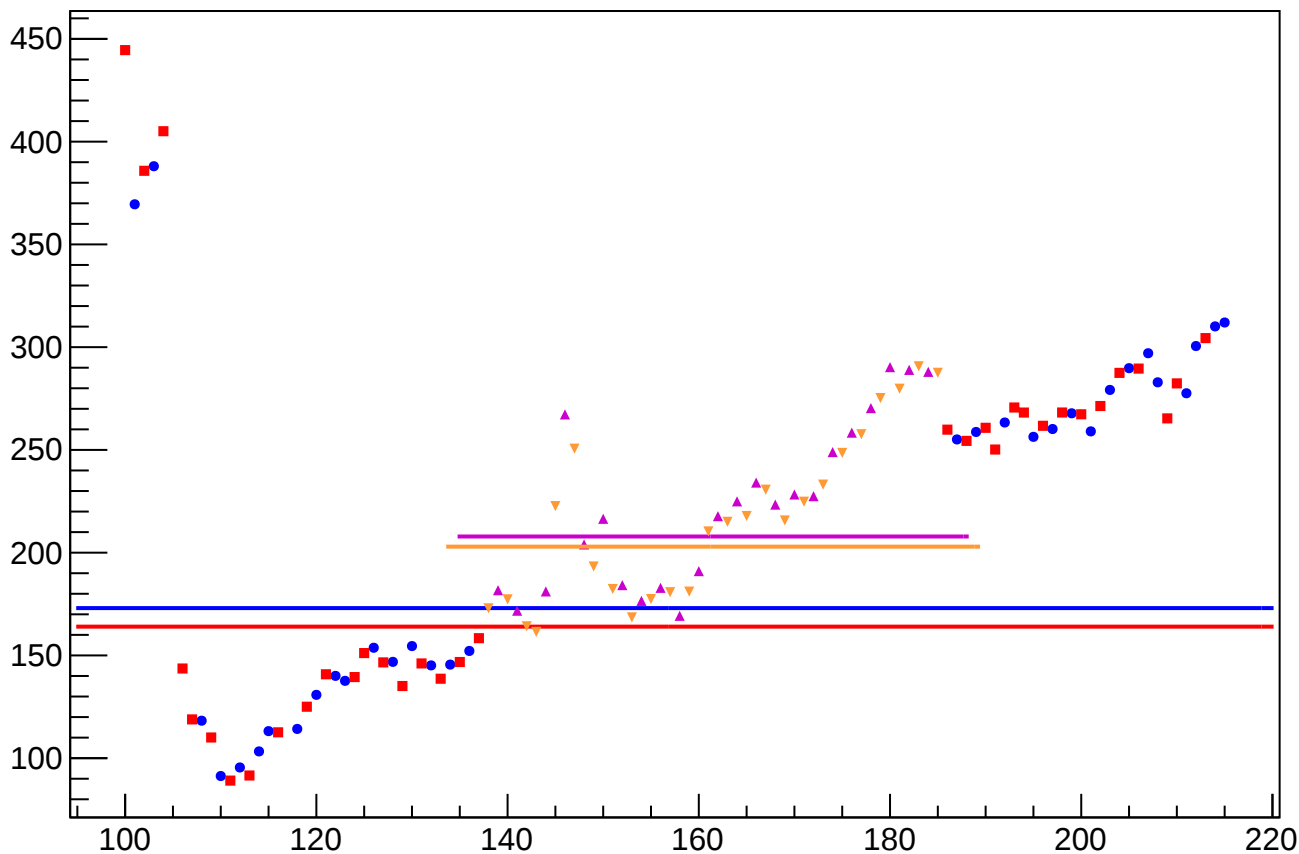
All: 280.506 ± 0.025 $\chi^2/\text{NDF}: 11908910.4/119$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136219.267 $\pm$ 0.046	χ^2 /NDF: 1665082488.4/31	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: 136282.952 $\pm$ 0.032	χ^2 /NDF: 3879744470.9/31
Right Out: 136341.334 $\pm$ 0.044	χ^2 /NDF: 2210961878.6/33	In: 138181.578 $\pm$ 0.034	χ^2 /NDF: 5974801169.7/54
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138317.563 $\pm$ 0.033	χ^2 /NDF: 6952869481.6/54
		All: 138252.840 $\pm$ 0.024	χ^2 /NDF: 129359963.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 173.030 $\pm$ 0.032 χ^2 /NDF: 5667780.4/31

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 164.011 $\pm$ 0.031 χ^2 /NDF: 5756018.6/33

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

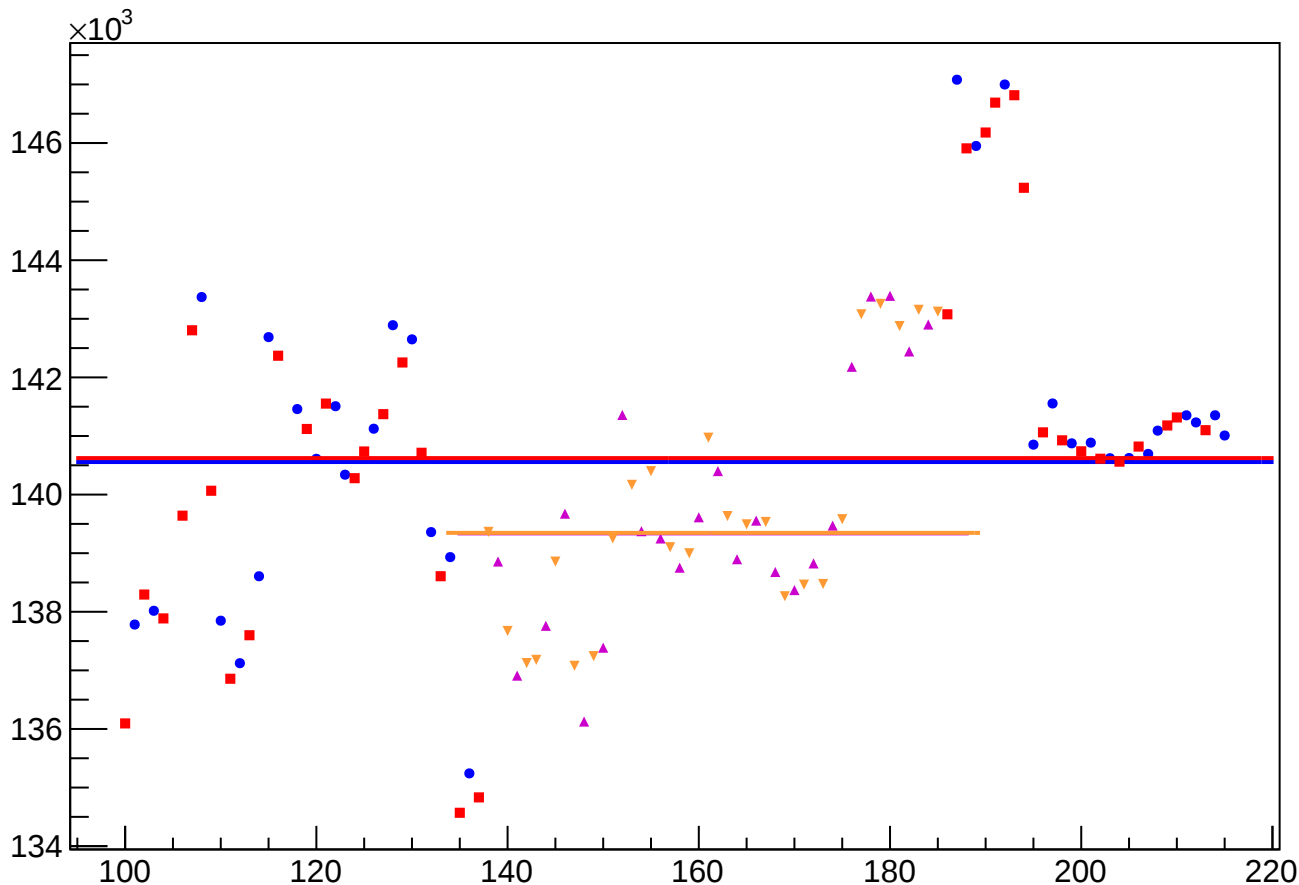
Right: 168.325 $\pm$ 0.022 χ^2 /NDF: 11464192.9/65

In: 188.570 $\pm$ 0.024 χ^2 /NDF:7132385.1/54

Out: 181.571 $\pm$ 0.023 χ^2 /NDF:7518020.2/58

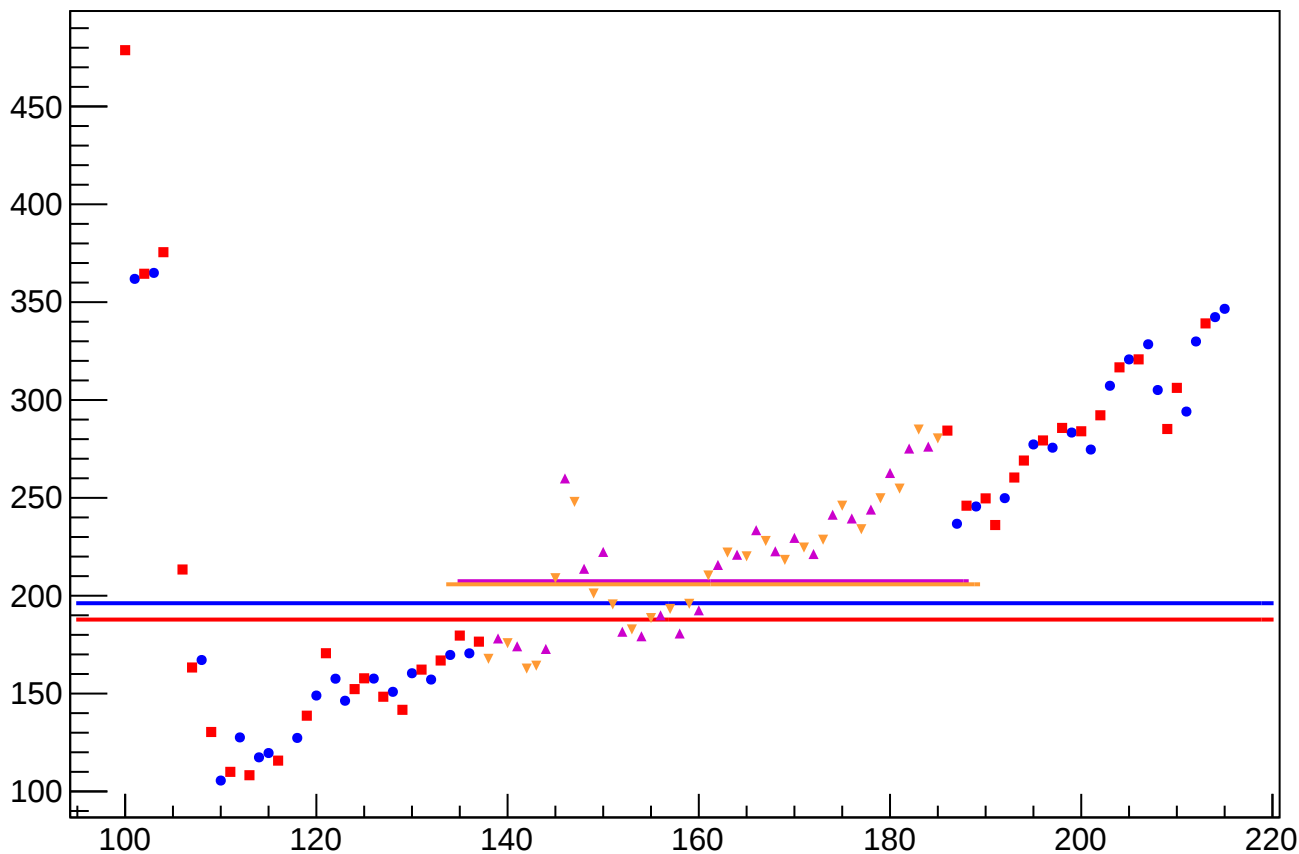
All: 184.902 $\pm$ 0.017 χ^2 /NDF: 14694508.6/11

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140555.658 $\pm$ 0.051	χ^2 /NDF: 2788503152.7/31	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140590.385 $\pm$ 0.035	χ^2 /NDF: 6009275070.0/4
Right Out: 140622.672 $\pm$ 0.049	χ^2 /NDF: 3219879473.1/33	In: 139944.065 $\pm$ 0.036	χ^2 /NDF: 4367128024.3/54
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139981.094 $\pm$ 0.035	χ^2 /NDF: 4828747074.9/5
		All: 139963.264 $\pm$ 0.025	χ^2 /NDF: 919642277.0/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 196.167 $\pm$ 0.036 χ^2 /NDF: 4609887.2/31

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 187.813 $\pm$ 0.035 χ^2 /NDF: 4581822.6/33

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

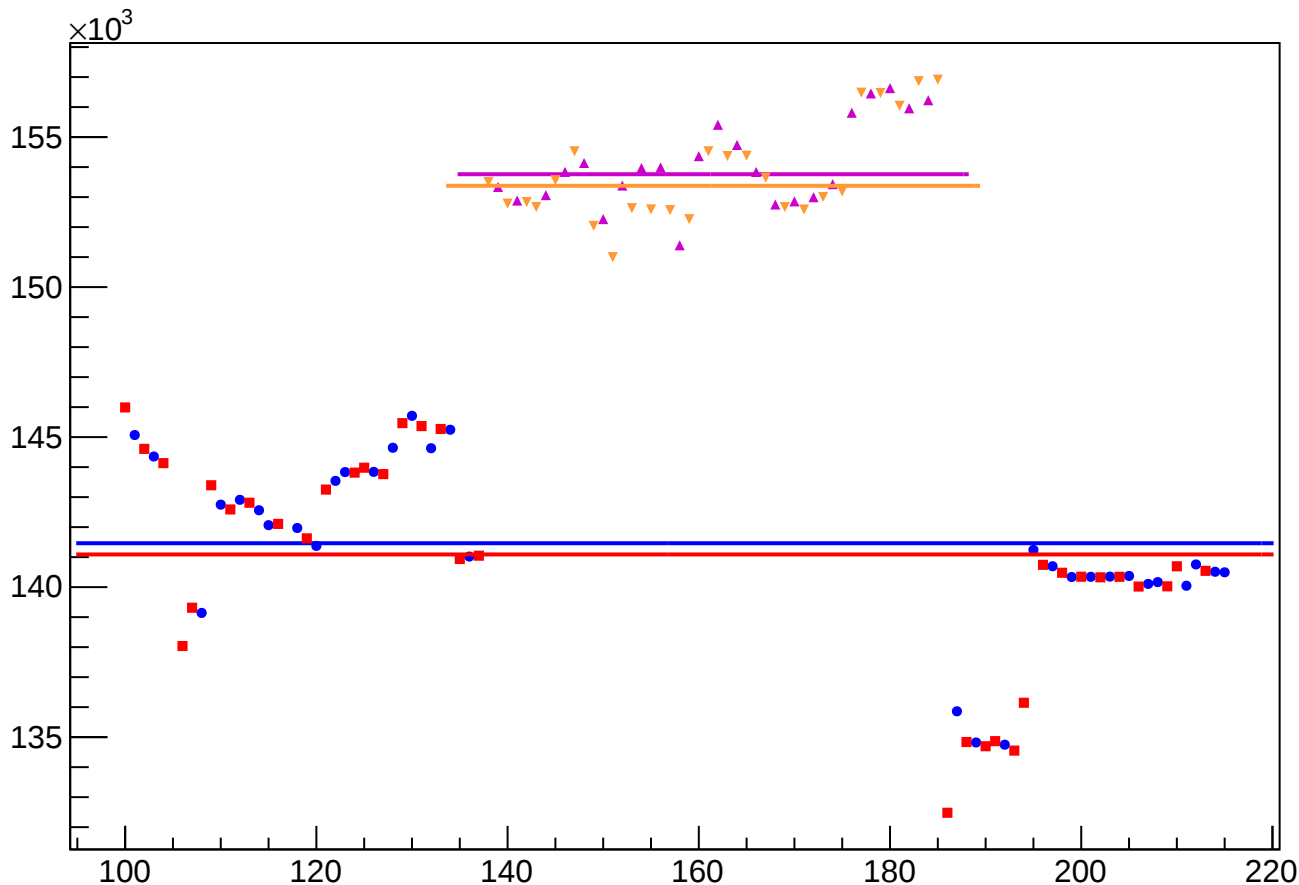
Right: 191.838 $\pm$ 0.025 χ^2 /NDF: 9219450.6/65

In: 201.817 $\pm$ 0.025 χ^2 /NDF: 5360583.0/54

Out: 196.873 $\pm$ 0.025 χ^2 /NDF: 5455169.1/58

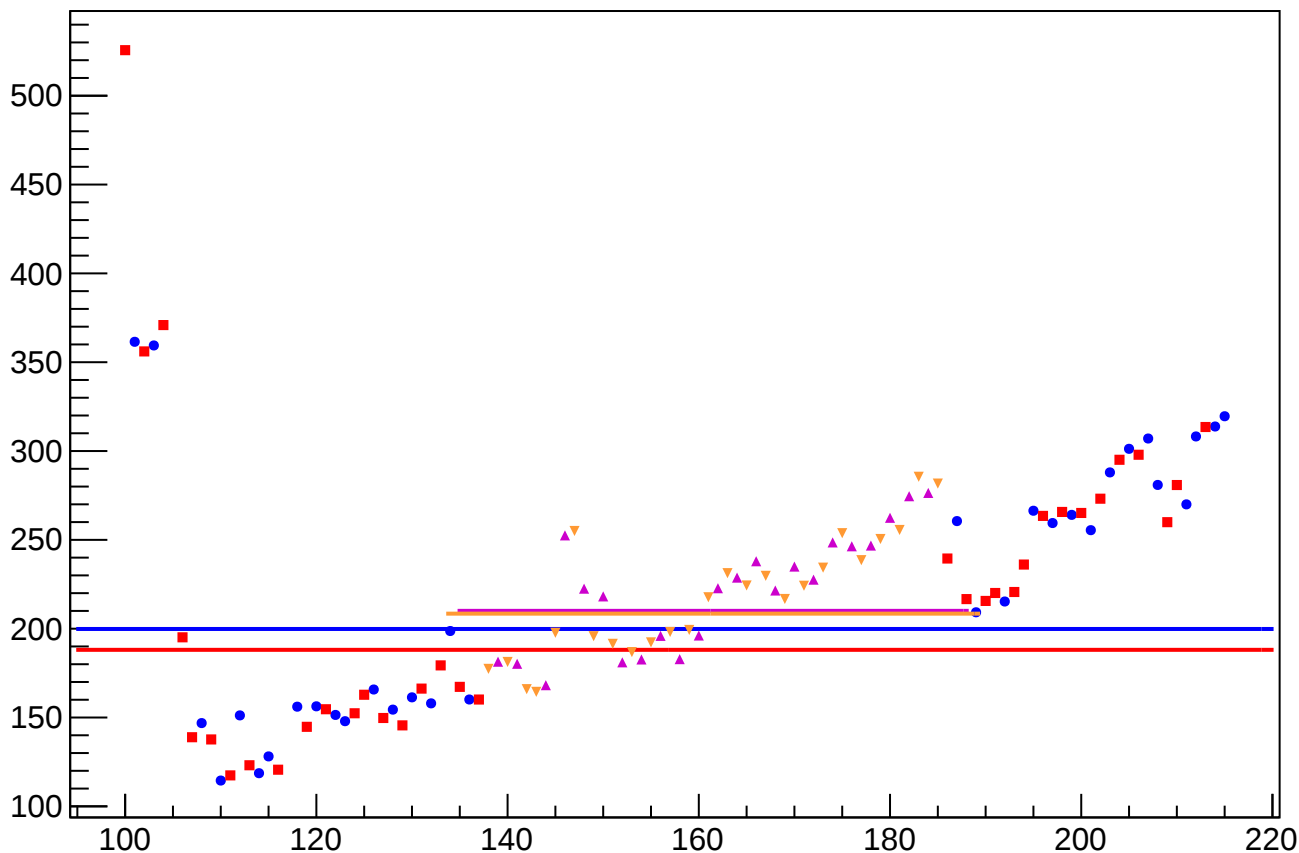
All: 199.253 $\pm$ 0.018 χ^2 /NDF: 10835277.8/111

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141463.517 $\pm$ 0.051	χ^2 /NDF: 2749261135.6/31	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141266.353 $\pm$ 0.035	χ^2 /NDF: 7224167710.4/
Right Out: 141089.196 $\pm$ 0.048	χ^2 /NDF: 4446543845.8/33	In: 147560.659 $\pm$ 0.036	χ^2 /NDF: 32202727853.6/5
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147084.561 $\pm$ 0.035	χ^2 /NDF: 36758596319.9
		All: 147311.715 $\pm$ 0.025	χ^2 /NDF: 690516530

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.840+/-0.036 χ^2/NDF : 3393590.6/31

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 188.099+/-0.034 χ^2/NDF : 3376559.8/33

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

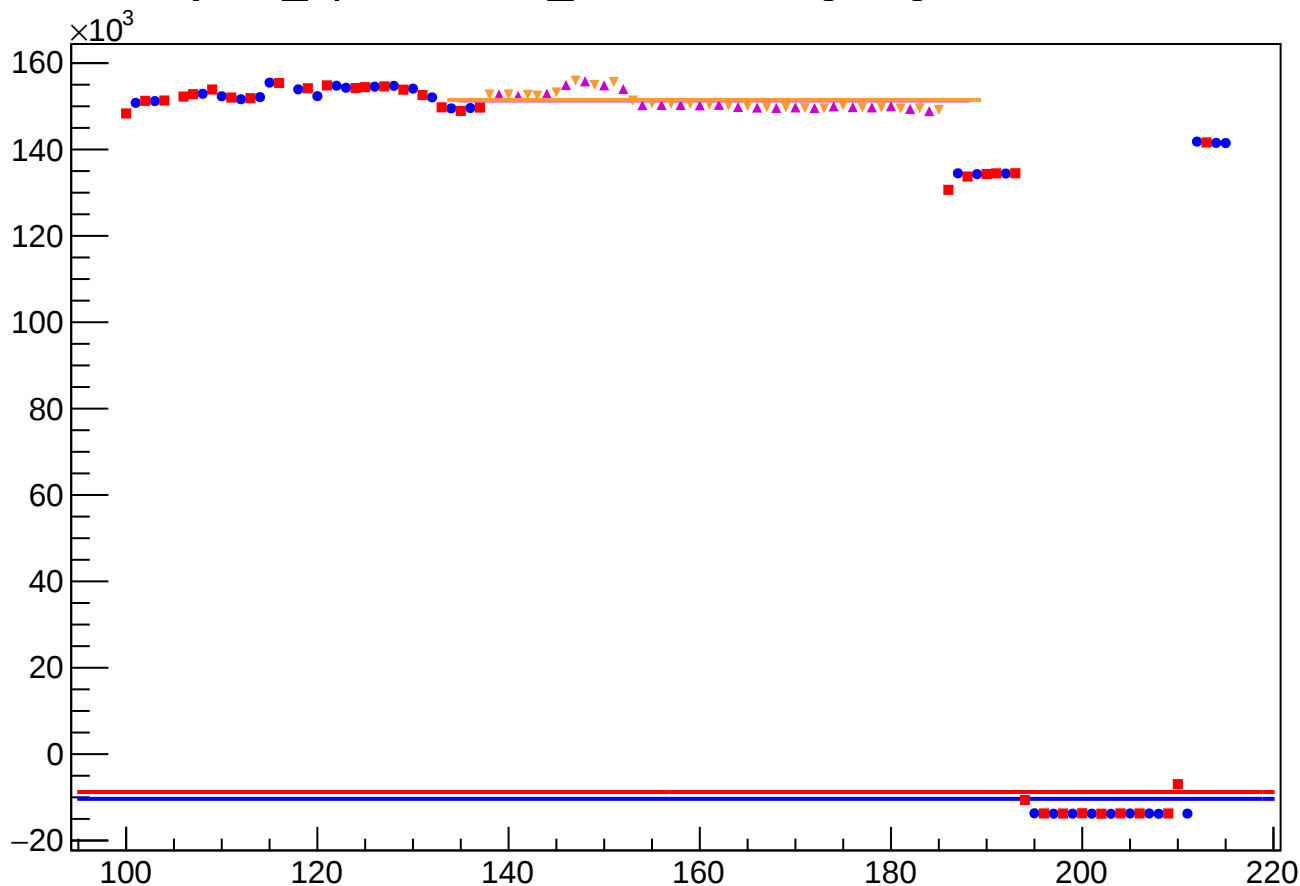
Right: 193.656+/-0.025 χ^2/NDF : 6825955.3/65

In: 204.895+/-0.026 χ^2/NDF : 4135587.1/54

Out: 198.037+/-0.024 χ^2/NDF : 4270581.3/58

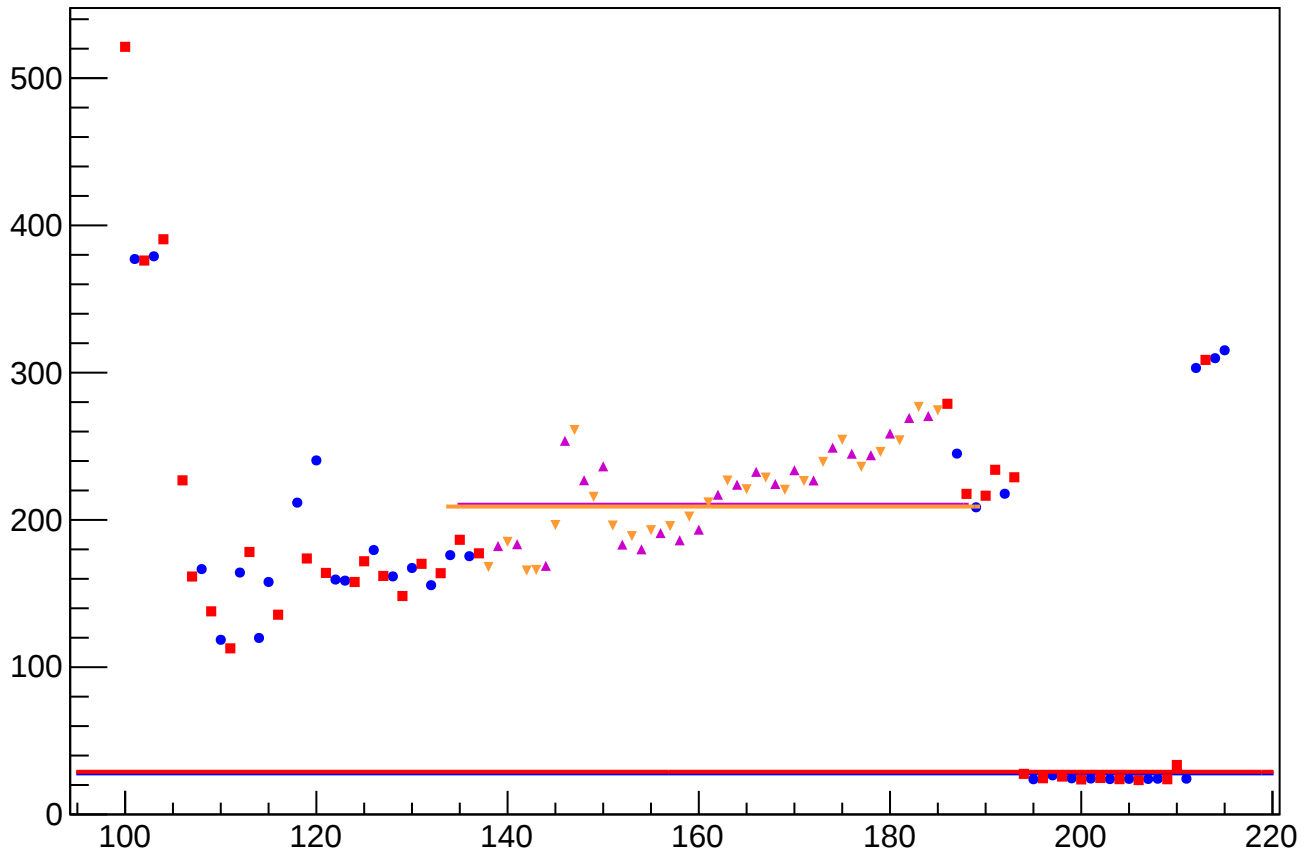
All: 201.309+/-0.018 χ^2/NDF : 8443662.9/113

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10351.511 $\pm$ 0.009	χ^2/NDF : 6424435261107.7/31	Left: 151425.512 $\pm$ 0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2/NDF : 1481910066.9/24	Right: -9628.490 $\pm$ 0.007	χ^2/NDF : 1378026371894.
Right Out: -8768.053 $\pm$ 0.010	χ^2/NDF : 7342348480079.0/33	In: -5314.965 $\pm$ 0.009	χ^2/NDF : 16015752973367.0
Left In: 151363.165 $\pm$ 0.051	χ^2/NDF : 1421662089.0/22	Out: -2425.053 $\pm$ 0.010	χ^2/NDF : 17400644191529
		All: -3989.131 $\pm$ 0.007	χ^2/NDF : 3346296076

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.896 $\pm$ 0.007 χ^2 /NDF: 15189175.0/31

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 28.978 $\pm$ 0.007 χ^2 /NDF: 14752203.8/33

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

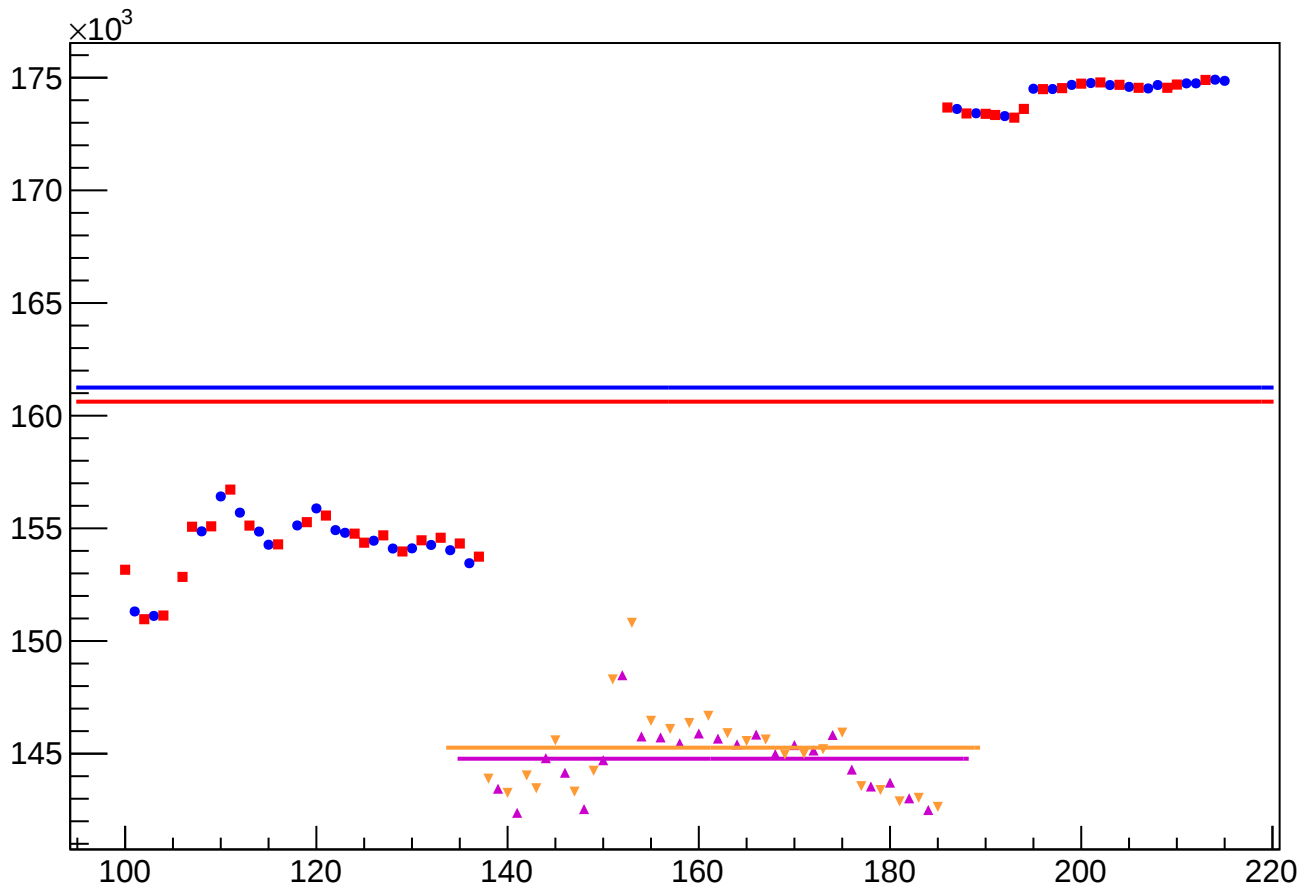
Right: 28.390 $\pm$ 0.005 χ^2 /NDF: 29953978.7/65

In: 33.578 $\pm$ 0.006 χ^2 /NDF: 40280325.1/54

Out: 36.107 $\pm$ 0.007 χ^2 /NDF: 40864504.6/58

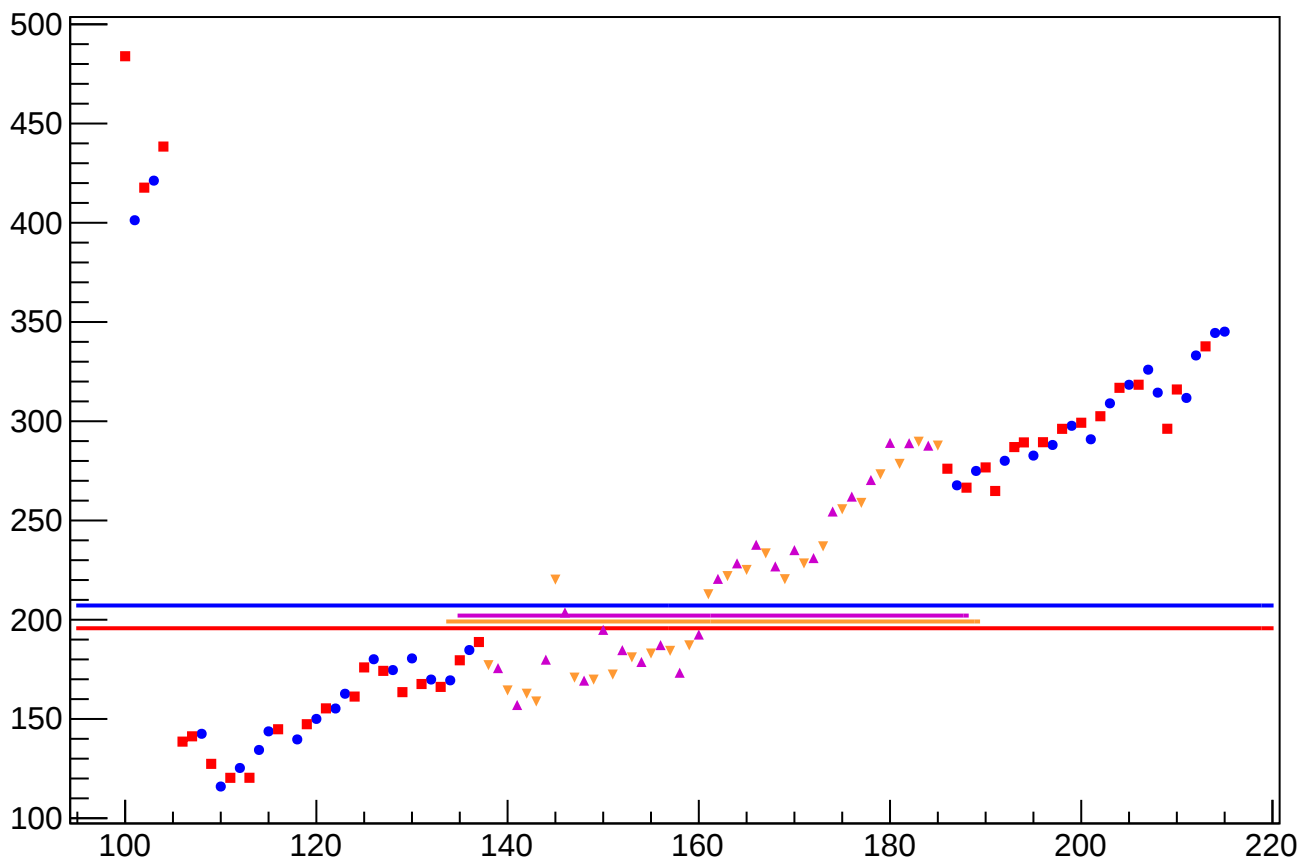
All: 34.738 $\pm$ 0.005 χ^2 /NDF: 81216133.9/113

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161248.441 $\pm$ 0.054	χ^2 /NDF: 2993296687.6/31	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/31
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 160919.459 $\pm$ 0.037	χ^2 /NDF: 60615956169.1/24
Right Out: 160622.430 $\pm$ 0.051	χ^2 /NDF: 30611410883.4/33	In: 152362.032 $\pm$ 0.036	χ^2 /NDF: 81727058321.6/33
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152387.281 $\pm$ 0.035	χ^2 /NDF: 81008295922.8/22
		All: 152375.257 $\pm$ 0.025	χ^2 /NDF: 162735606.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 207.170+/-0.038 χ^2/NDF : 4473429.5/31

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 195.707+/-0.036 χ^2/NDF : 4541813.9/33

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

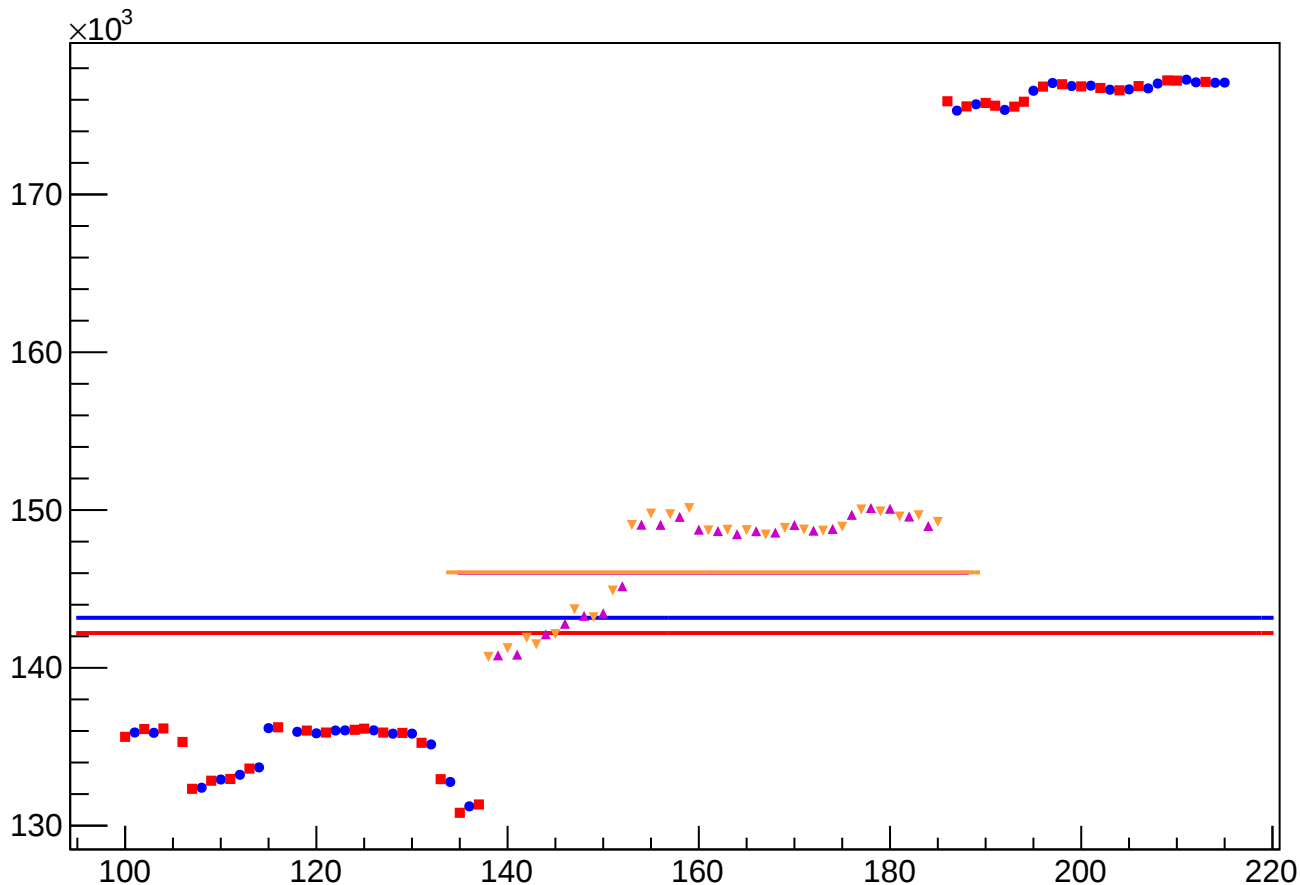
Right: 201.146+/-0.026 χ^2/NDF : 9063238.4/65

In: 204.430+/-0.026 χ^2/NDF : 5540938.6/54

Out: 197.537+/-0.025 χ^2/NDF : 5698847.6/58

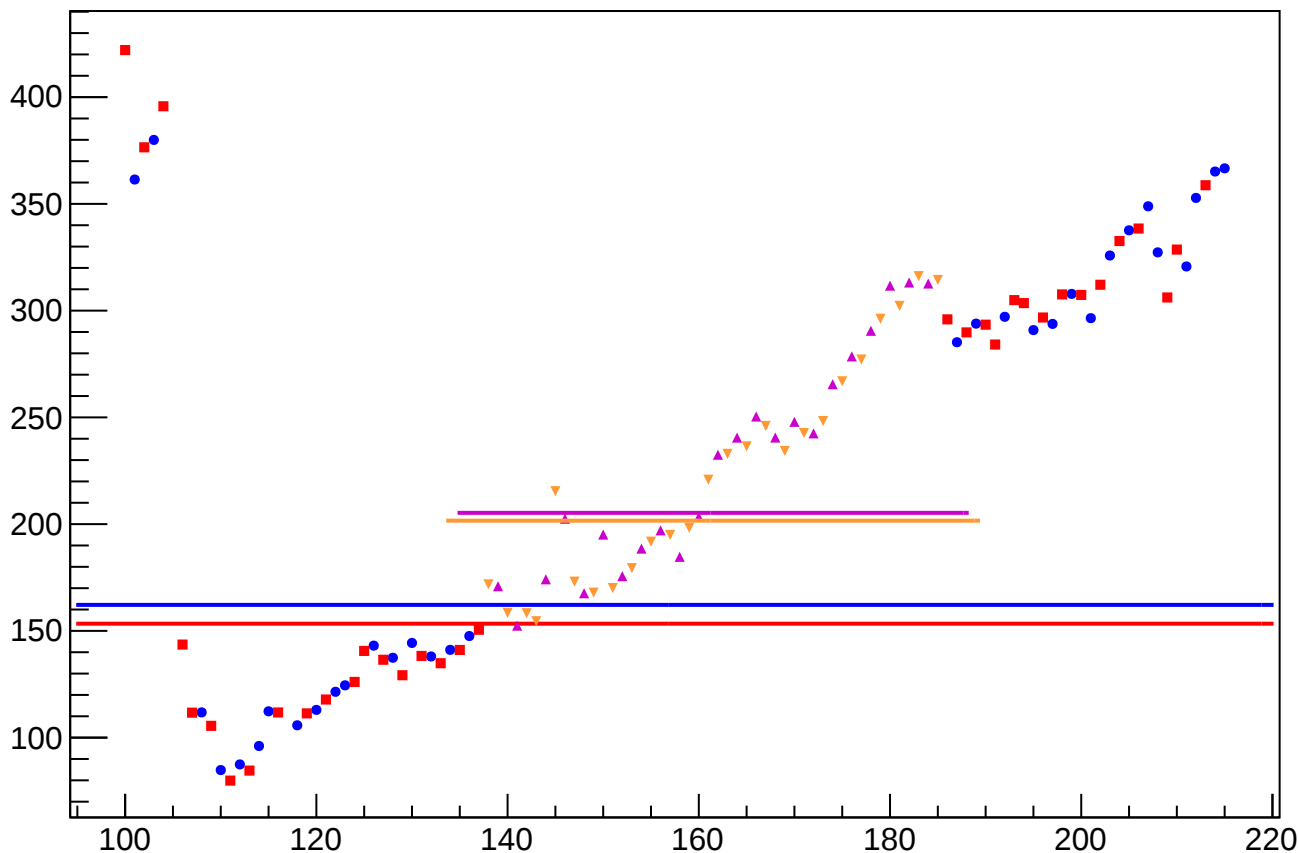
All: 200.819+/-0.018 χ^2/NDF : 11277351.5/11

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 143172.407 $\pm$ 0.045	χ^2 /NDF: 149189922648.4/31	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: 142665.721 $\pm$ 0.031	χ^2 /NDF: 302127991254
Right Out: 142206.401 $\pm$ 0.043	χ^2 /NDF: 152694275322.5/33	In: 144422.492 $\pm$ 0.034	χ^2 /NDF: 155554404325.5
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 143891.454 $\pm$ 0.032	χ^2 /NDF: 161657769771
		All: 144144.140 $\pm$ 0.023	χ^2 /NDF: 31734341

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 162.176+/-0.032 χ^2/NDF : 8051048.7/31

Left Out: 201.632+/-0.034 χ^2/NDF : 1589564.0/24

Right Out: 153.373+/-0.030 χ^2/NDF : 7992519.2/33

Left In: 205.286+/-0.036 χ^2/NDF : 1425292.7/22

Left: 203.372+/-0.025 χ^2/NDF : 3020309.5/47

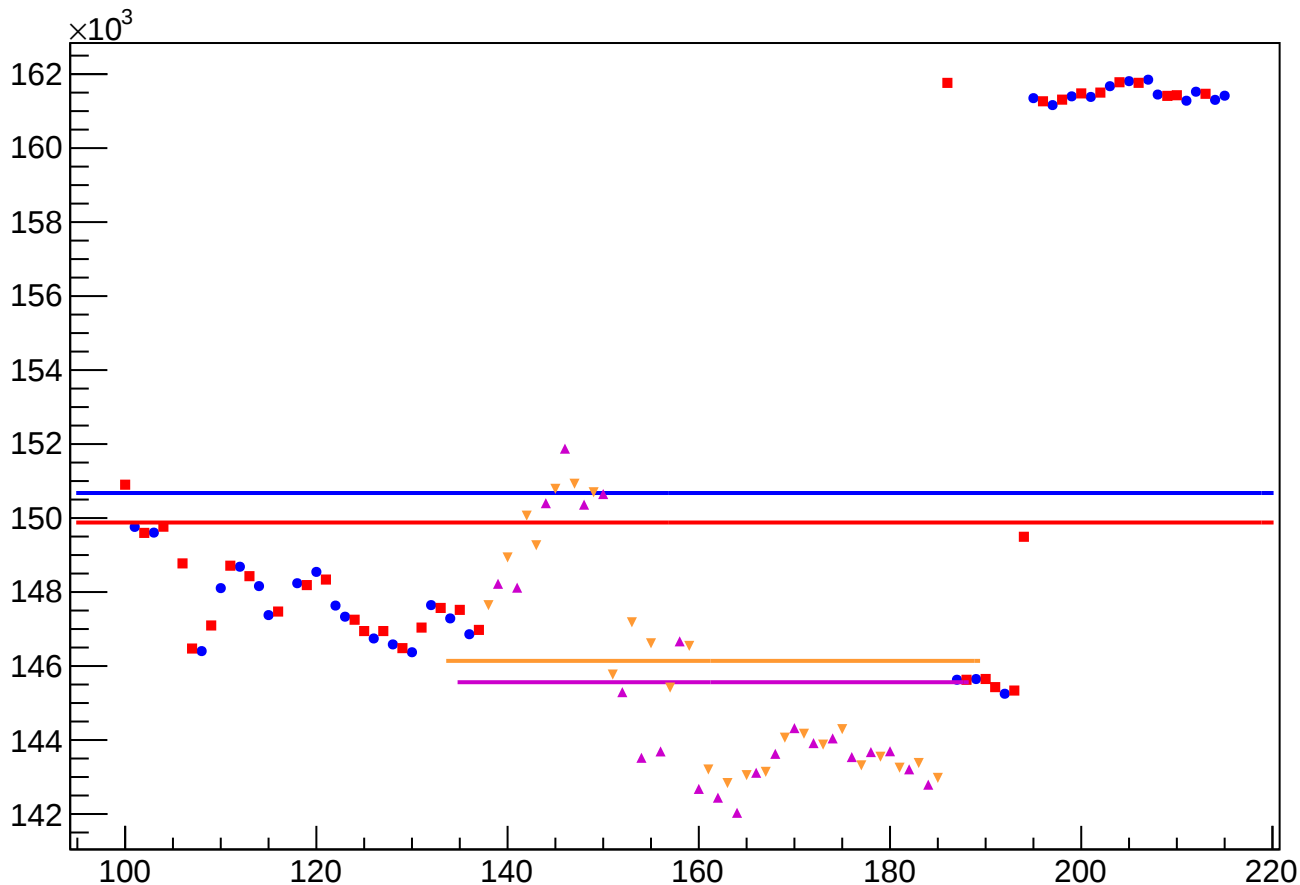
Right: 157.559+/-0.022 χ^2/NDF : 16084059.6/65

In: 181.101+/-0.024 χ^2/NDF : 10289068.6/54

Out: 174.520+/-0.023 χ^2/NDF : 10703532.3/58

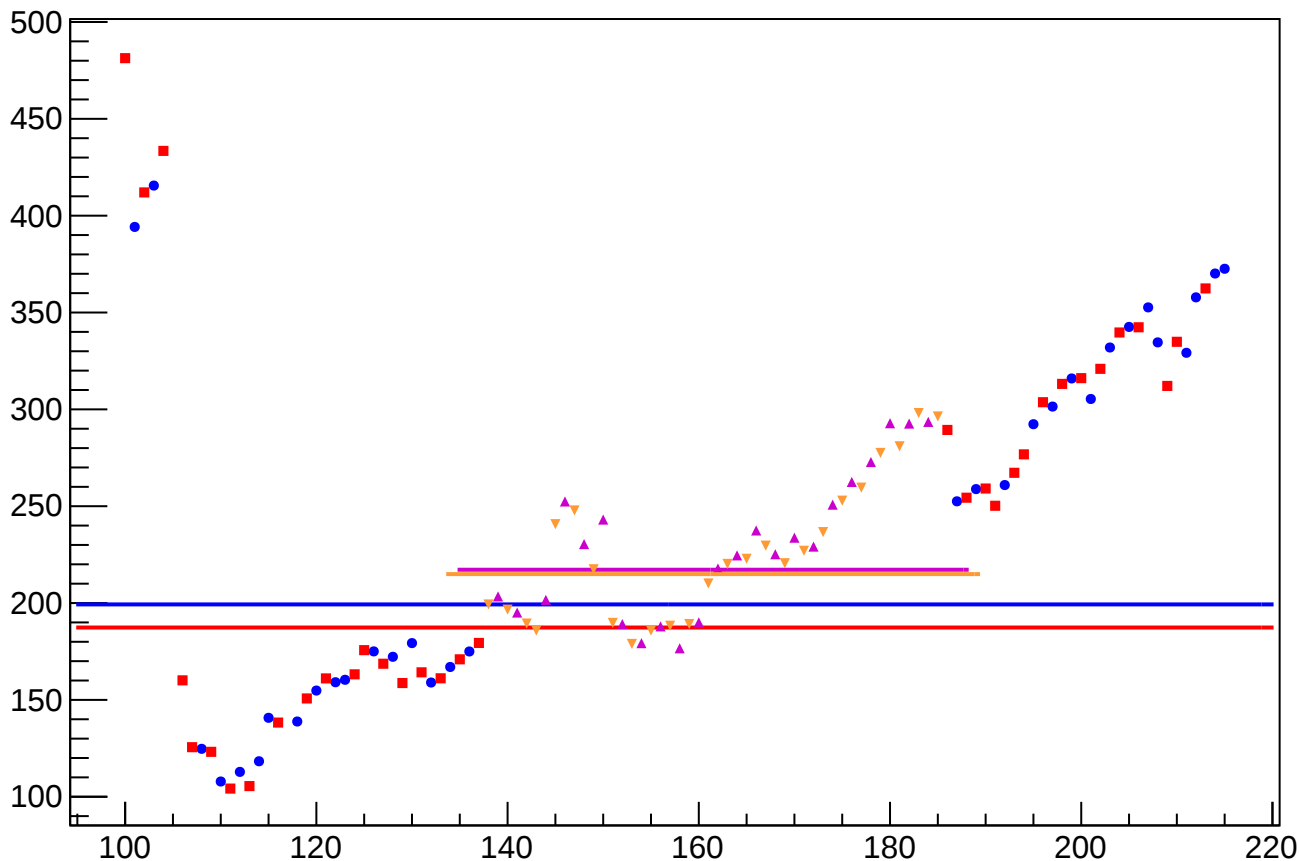
All: 177.652+/-0.016 χ^2/NDF : 21032911.3/11

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150676.938+/-0.053	χ^2/NDF : 12936553816.2/31	Left: 145862.850+/-0.037	χ^2/NDF : 5815743509.5/4
Left Out: 146139.326+/-0.051	χ^2/NDF : 2699546907.6/24	Right: 150255.516+/-0.036	χ^2/NDF : 24385597473.7
Right Out: 149879.342+/-0.050	χ^2/NDF : 11327491454.3/33	In: 148142.999+/-0.037	χ^2/NDF : 20677898460.7/5
Left In: 145562.386+/-0.053	χ^2/NDF : 3054641996.0/22	Out: 148054.795+/-0.036	χ^2/NDF : 16791557241.9
		All: 148096.724+/-0.026	χ^2/NDF : 37472381.1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 199.297 $\pm$ 0.037 χ^2 /NDF: 5533363.8/31

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 187.368 $\pm$ 0.035 χ^2 /NDF: 5481134.2/33

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

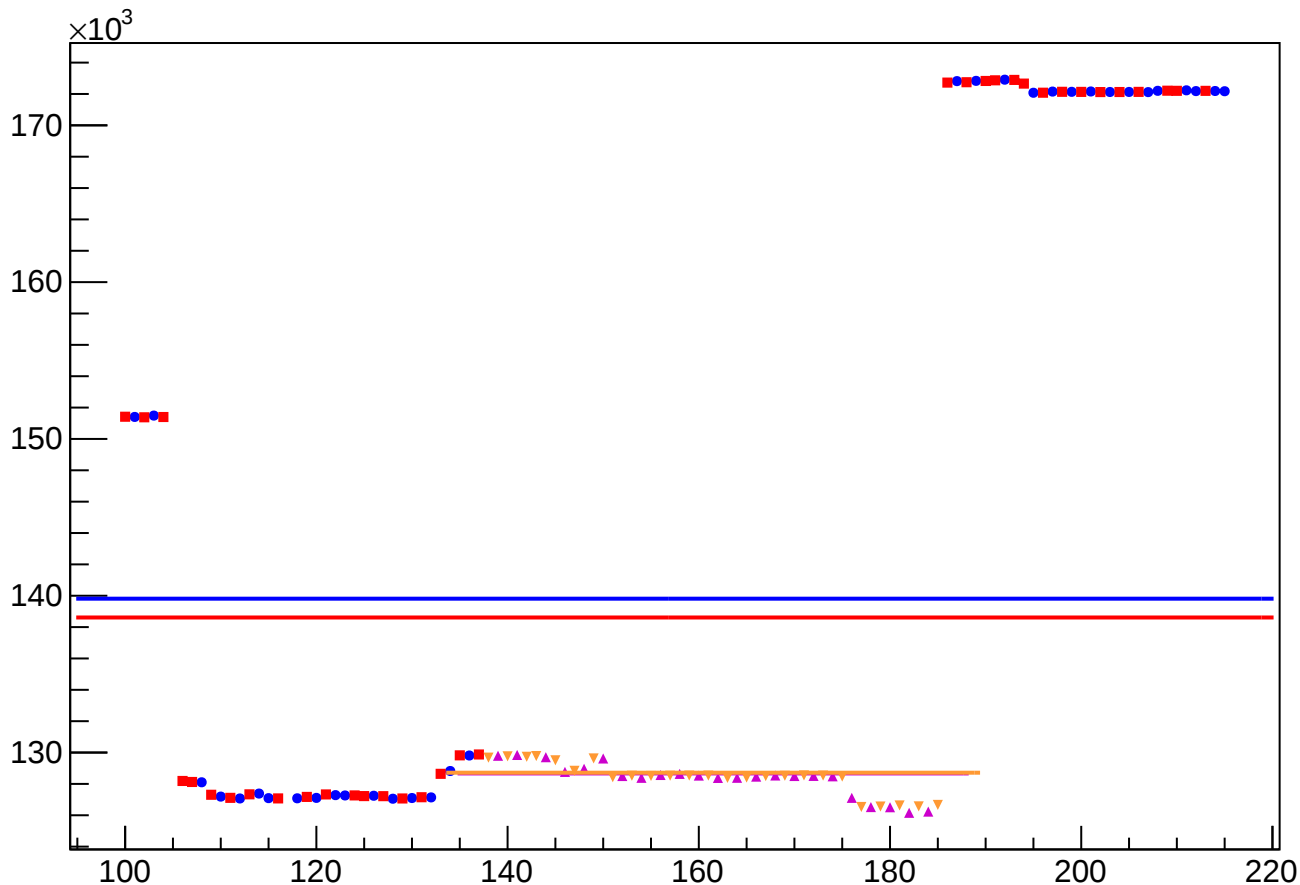
Right: 192.994 $\pm$ 0.026 χ^2 /NDF: 11068883.8/65

In: 208.169 $\pm$ 0.026 χ^2 /NDF: 6413049.9/54

Out: 200.821 $\pm$ 0.025 χ^2 /NDF: 6510259.5/58

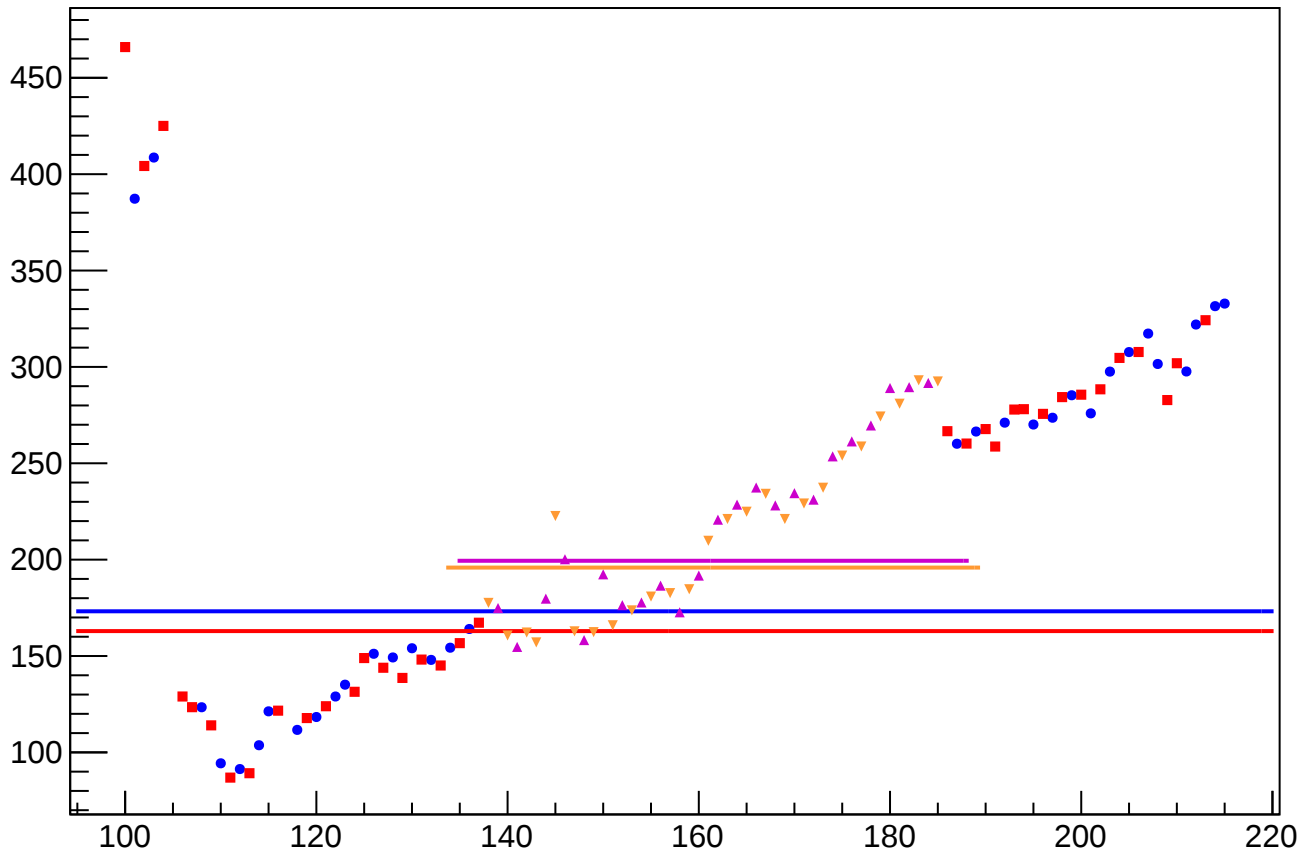
All: 204.314 $\pm$ 0.018 χ^2 /NDF: 12963909.3/11

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139812.369+/-0.046	χ^2/NDF : 182086188987.4/31	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/41
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 139179.397+/-0.032	χ^2/NDF : 373224030530
Right Out: 138612.911+/-0.044	χ^2/NDF : 190785621153.4/33	In: 134539.041+/-0.034	χ^2/NDF : 209685367565.5
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 133966.678+/-0.032	χ^2/NDF : 214973794241.
		All: 134238.008+/-0.023	χ^2/NDF : 424810879

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 173.199 $\pm$ 0.033 χ^2/NDF : 6416919.5/31

Left Out: 195.883 $\pm$ 0.033 χ^2/NDF :1313361.5/24

Right Out: 162.929 $\pm$ 0.031 χ^2/NDF : 6445843.5/33

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

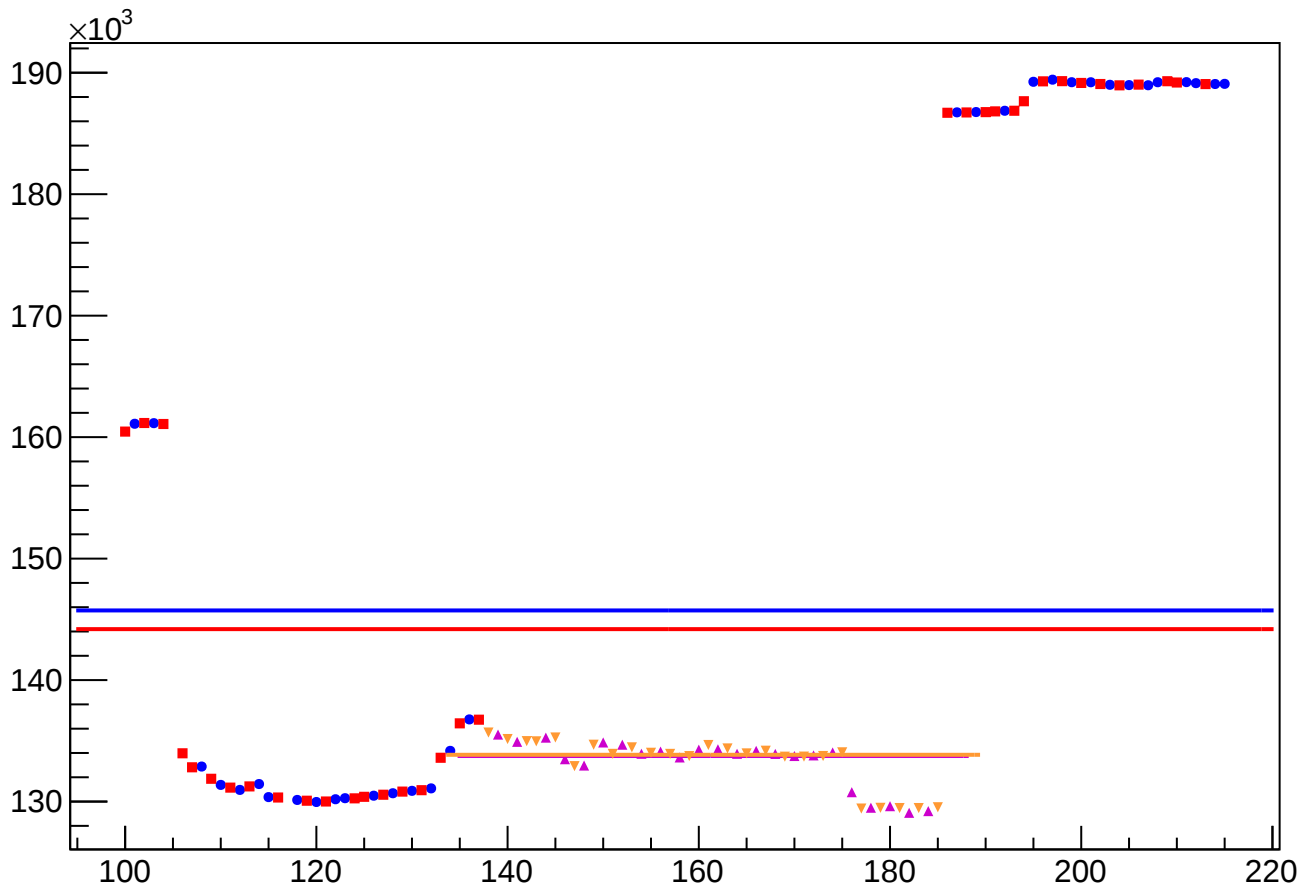
Right: 167.779 $\pm$ 0.023 χ^2/NDF : 12914399.0/65

In: 185.602 $\pm$ 0.024 χ^2/NDF :7884305.5/54

Out: 178.397 $\pm$ 0.023 χ^2/NDF :8287653.4/58

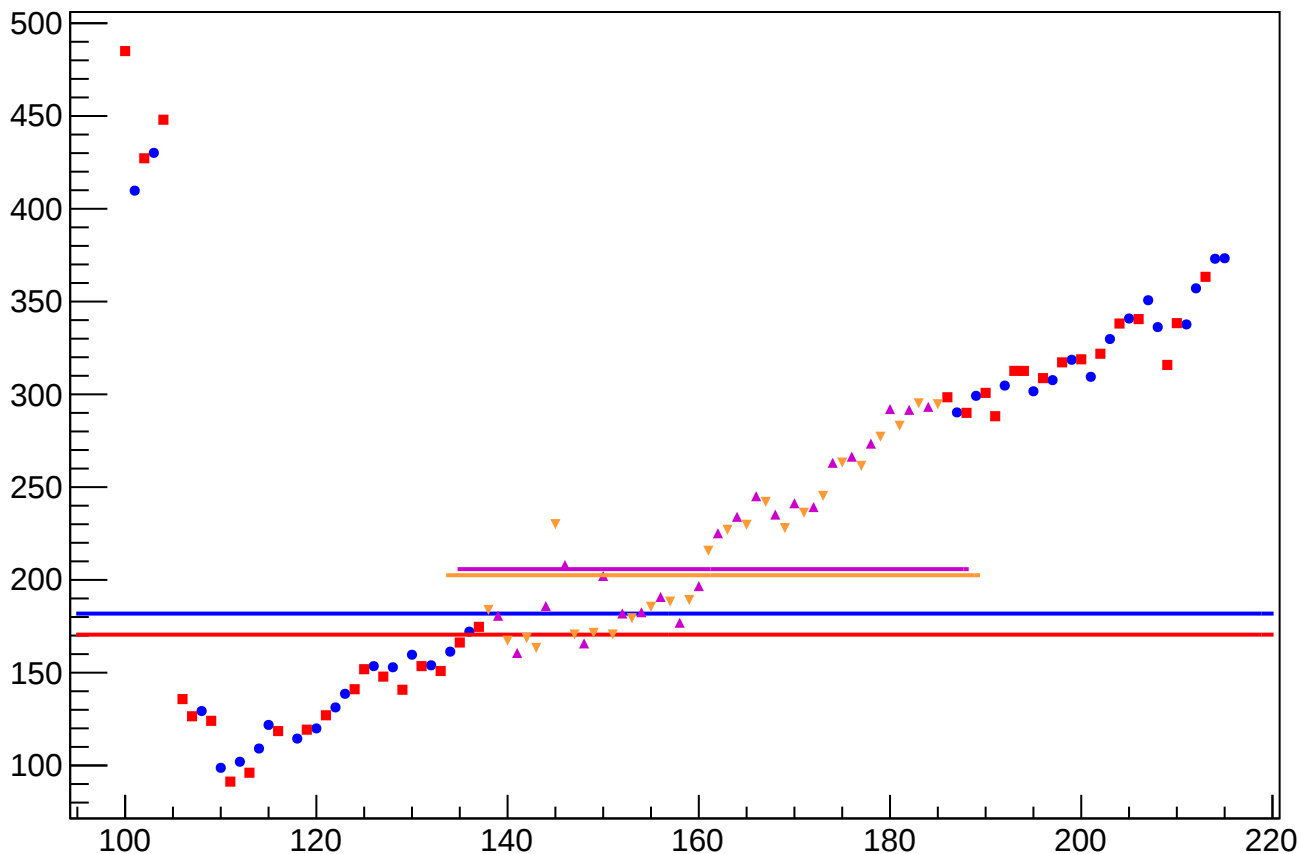
All: 181.813 $\pm$ 0.016 χ^2/NDF : 16220035.7/11

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 145734.050+/-0.049	χ^2/NDF : 248077214918.6/31	Left: 133802.452+/-0.035	χ^2/NDF : 2036267179.3/4
Left Out: 133850.586+/-0.048	χ^2/NDF : 1080107831.1/24	Right: 144919.497+/-0.034	χ^2/NDF : 502549752542
Right Out: 144194.974+/-0.047	χ^2/NDF : 253957296400.0/33	In: 139884.341+/-0.035	χ^2/NDF : 277843904621.2
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 139208.302+/-0.033	χ^2/NDF : 278872372808
		All: 139528.526+/-0.024	χ^2/NDF : 556909407

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 181.848 $\pm$ 0.035 χ^2 /NDF: 7069083.2/31

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 170.510 $\pm$ 0.033 χ^2 /NDF: 7100442.0/33

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

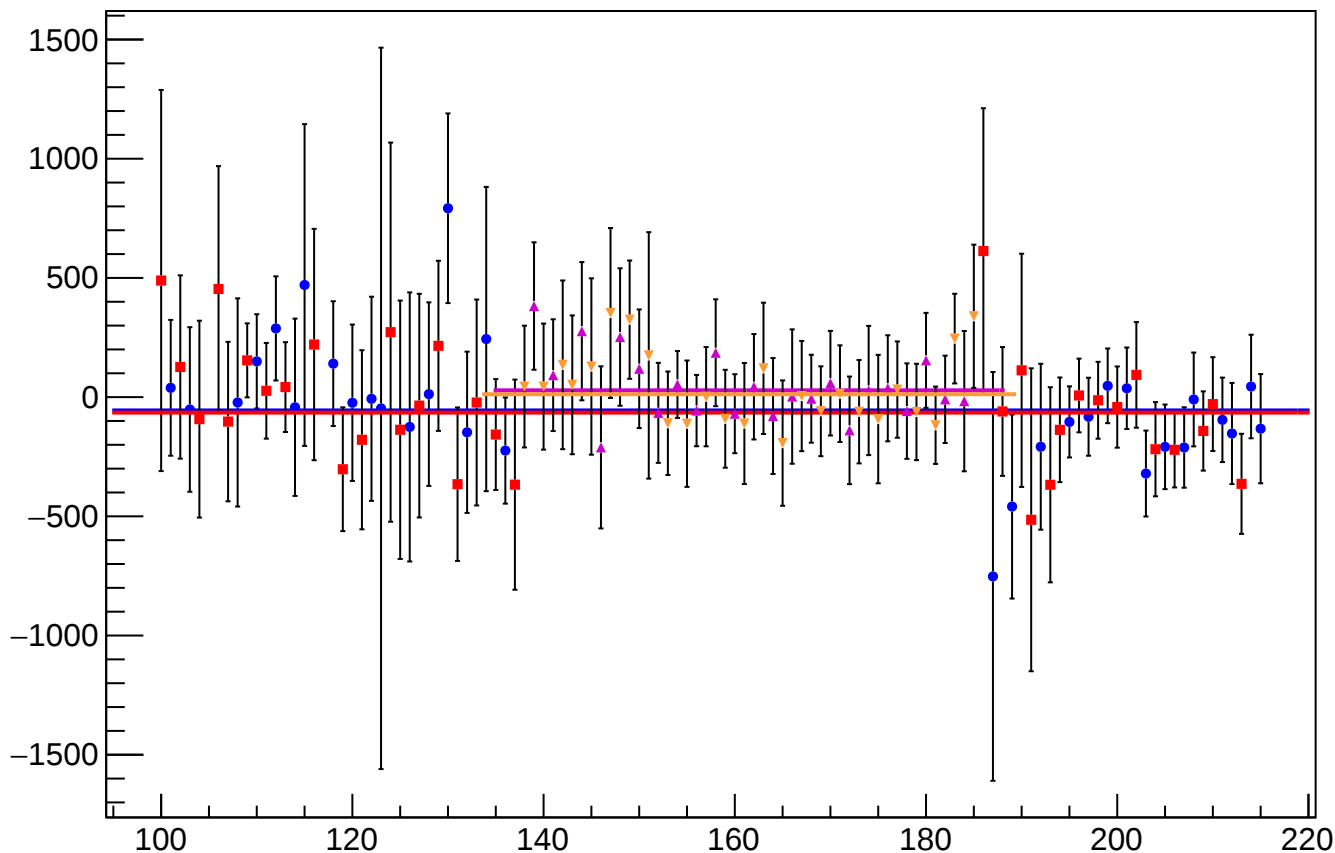
Right: 175.848 $\pm$ 0.024 χ^2 /NDF: 14225443.4/65

In: 193.543 $\pm$ 0.025 χ^2 /NDF:8393745.6/54

Out: 185.945 $\pm$ 0.024 χ^2 /NDF:8769094.2/58

All: 189.544 $\pm$ 0.017 χ^2 /NDF: 17211634.7/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -55.839 ± 42.606 $\chi^2/\text{NDF}: 17.5/31$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -64.854 ± 43.068 $\chi^2/\text{NDF}: 15.1/33$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

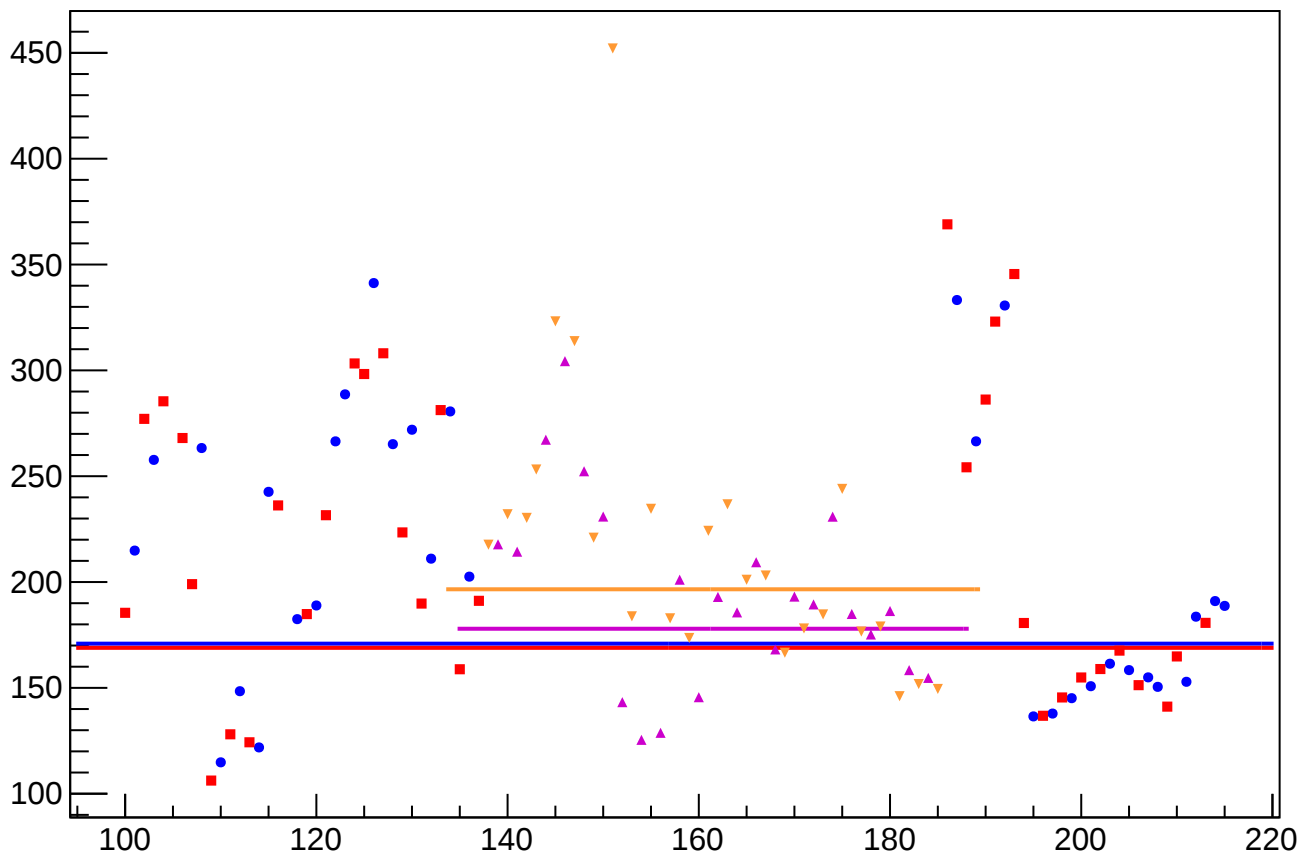
Right: -60.298 ± 30.289 $\chi^2/\text{NDF}: 32.7/65$

In: -15.703 ± 30.837 $\chi^2/\text{NDF}: 26.0/54$

Out: -30.122 ± 31.915 $\chi^2/\text{NDF}: 25.2/58$

All: -22.665 ± 22.176 $\chi^2/\text{NDF}: 51.3/113$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 170.884 $\pm$ 0.030 χ^2 /NDF: 2181351.8/31

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 168.917 $\pm$ 0.030 χ^2 /NDF: 2845861.9/33

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

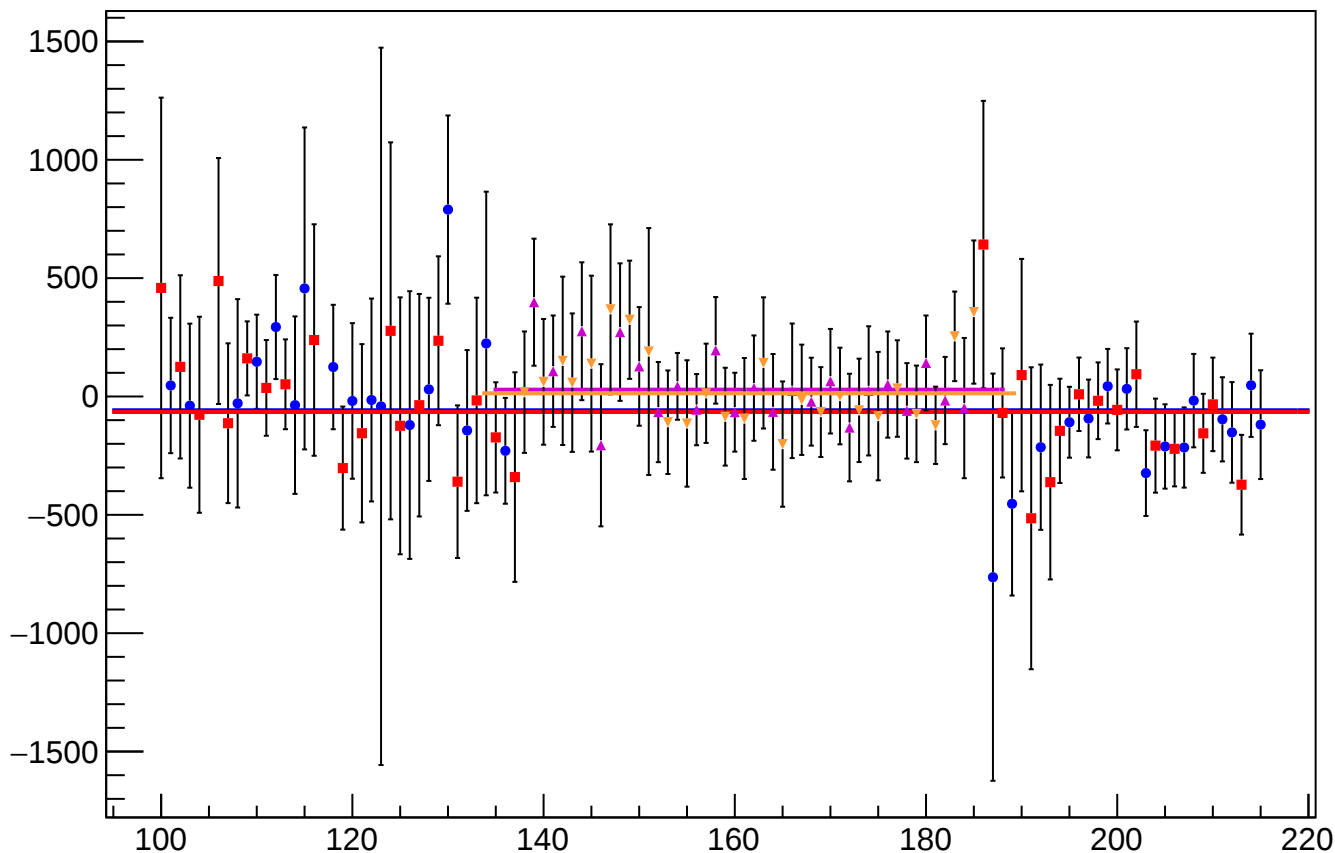
Right: 169.911 $\pm$ 0.021 χ^2 /NDF: 5029323.1/65

In: 174.241 $\pm$ 0.022 χ^2 /NDF:3813195.6/54

Out: 181.388 $\pm$ 0.023 χ^2 /NDF:4996487.8/58

All: 177.691 $\pm$ 0.016 χ^2 /NDF: 8861553.1/113

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -58.159 ± 42.798 $\chi^2/\text{NDF}: 17.4/31$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -65.579 ± 43.278 $\chi^2/\text{NDF}: 15.5/33$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

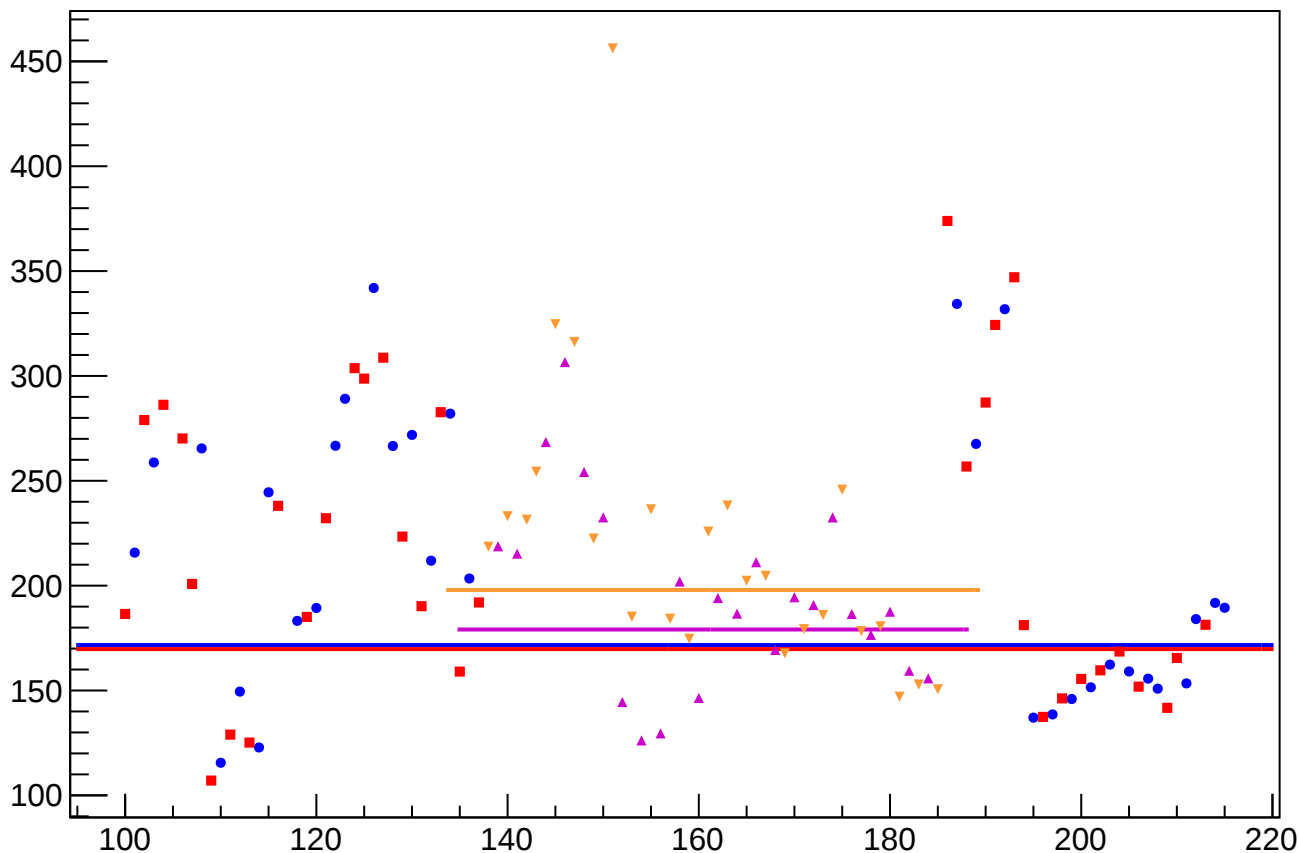
Right: -61.828 ± 30.431 $\chi^2/\text{NDF}: 33.0/65$

In: -16.837 ± 31.005 $\chi^2/\text{NDF}: 26.2/54$

Out: -30.055 ± 32.101 $\chi^2/\text{NDF}: 26.0/58$

All: -23.217 ± 22.301 $\chi^2/\text{NDF}: 52.3/113$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 171.675+/-0.030 χ^2/NDF : 2172651.9/31

Left Out: 197.953+/-0.034 χ^2/NDF : 1774524.3/24

Right Out: 169.747+/-0.031 χ^2/NDF : 2841695.1/33

Left In: 179.090+/-0.032 χ^2/NDF : 1605113.3/22

Left: 187.936+/-0.023 χ^2/NDF : 3544595.8/47

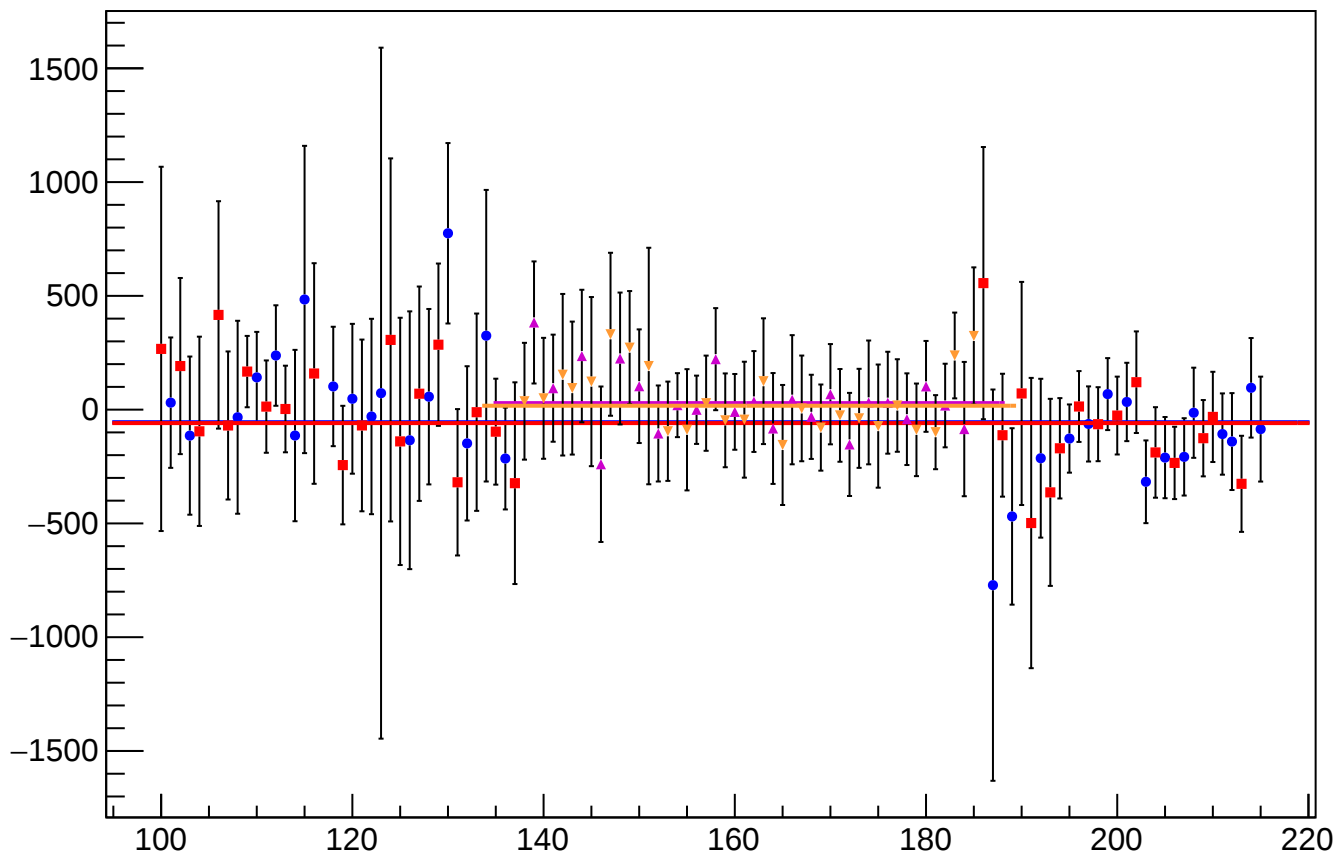
Right: 170.722+/-0.022 χ^2/NDF : 5016353.9/65

In: 175.198+/-0.022 χ^2/NDF : 3806288.8/54

Out: 182.435+/-0.023 χ^2/NDF : 4998355.2/58

All: 178.691+/-0.016 χ^2/NDF : 8857226.1/113

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -55.161+/-42.883 χ^2/NDF : 17.0/31

Left Out: 17.142+/-47.738 χ^2/NDF : 7.1/24

Right Out: -59.157+/-43.308 χ^2/NDF : 13.6/33

Left In: 28.655+/-44.859 χ^2/NDF : 6.1/22

Left: 23.256+/-32.690 χ^2/NDF : 13.2/47

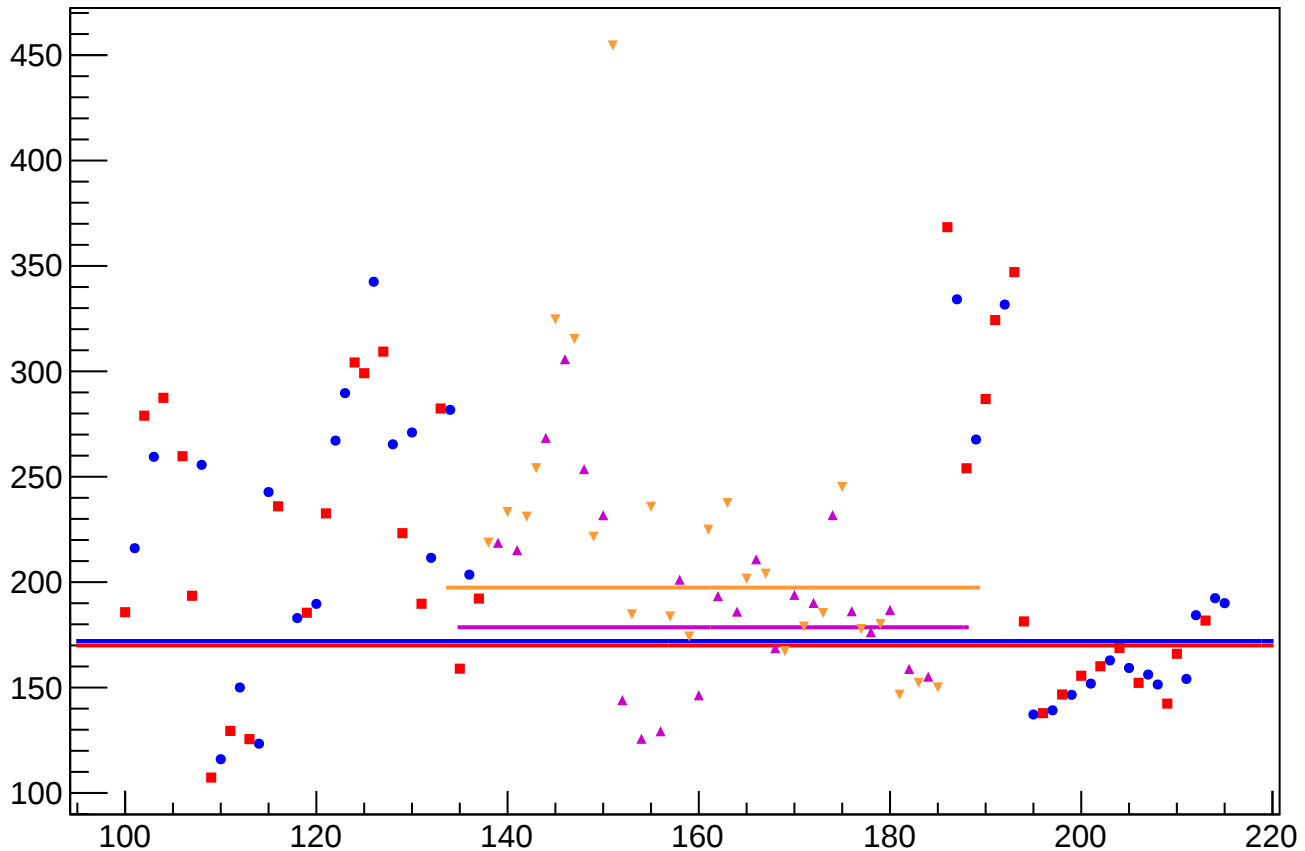
Right: -57.139+/-30.472 χ^2/NDF : 30.6/65

In: -15.139+/-30.998 χ^2/NDF : 24.9/54

Out: -24.711+/-32.075 χ^2/NDF : 22.0/58

All: -19.762+/-22.290 χ^2/NDF : 47.0/113

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 172.103 $\pm$ 0.030 χ^2 /NDF: 2140302.8/31

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 169.994 $\pm$ 0.031 χ^2 /NDF: 2794142.1/33

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

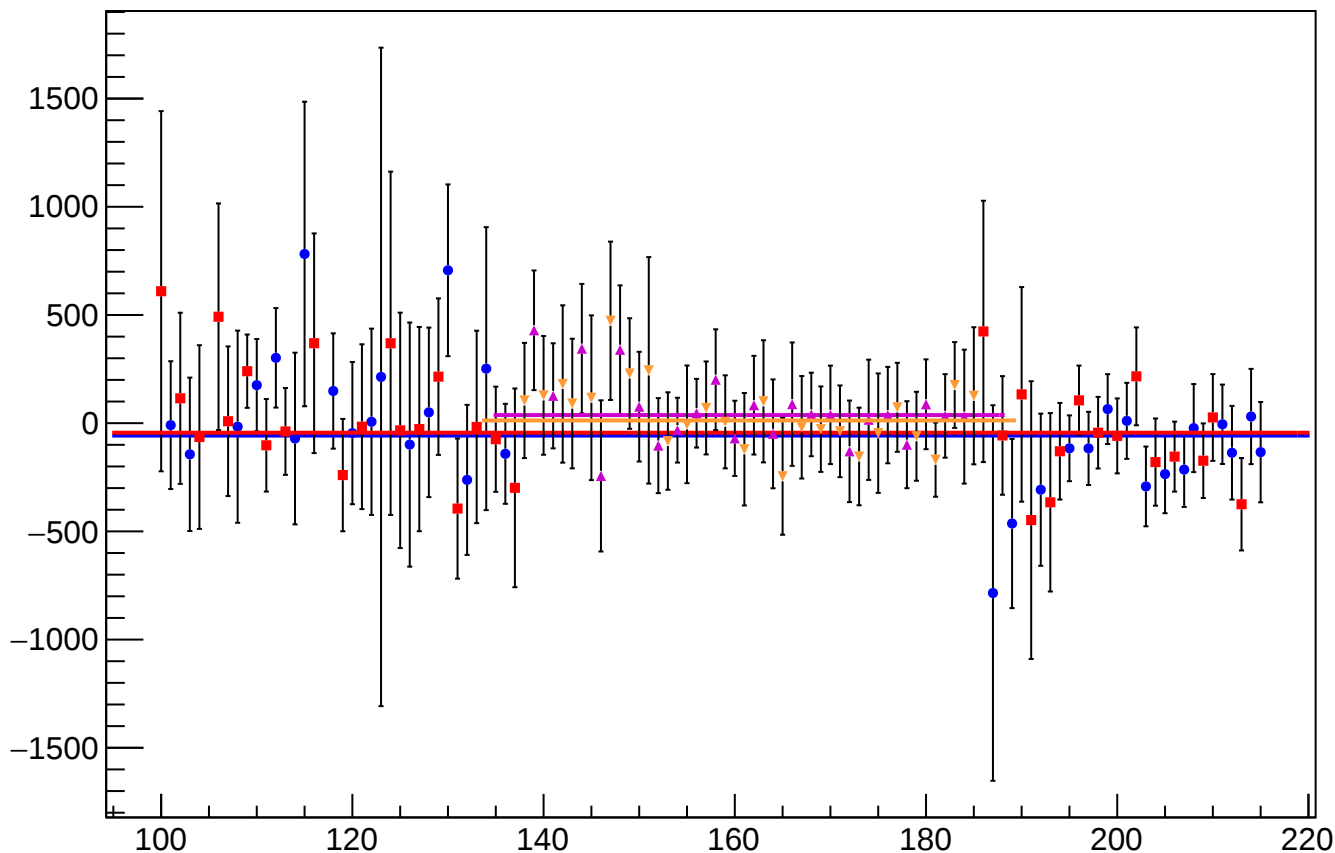
Right: 171.059 $\pm$ 0.022 χ^2 /NDF: 4936839.8/65

In: 175.206 $\pm$ 0.022 χ^2 /NDF:3771230.1/54

Out: 182.377 $\pm$ 0.023 χ^2 /NDF:4936556.1/58

All: 178.669 $\pm$ 0.016 χ^2 /NDF: 8759472.2/113

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -57.237 ± 43.792 $\chi^2/\text{NDF}: 17.5/31$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -44.115 ± 44.451 $\chi^2/\text{NDF}: 16.4/33$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

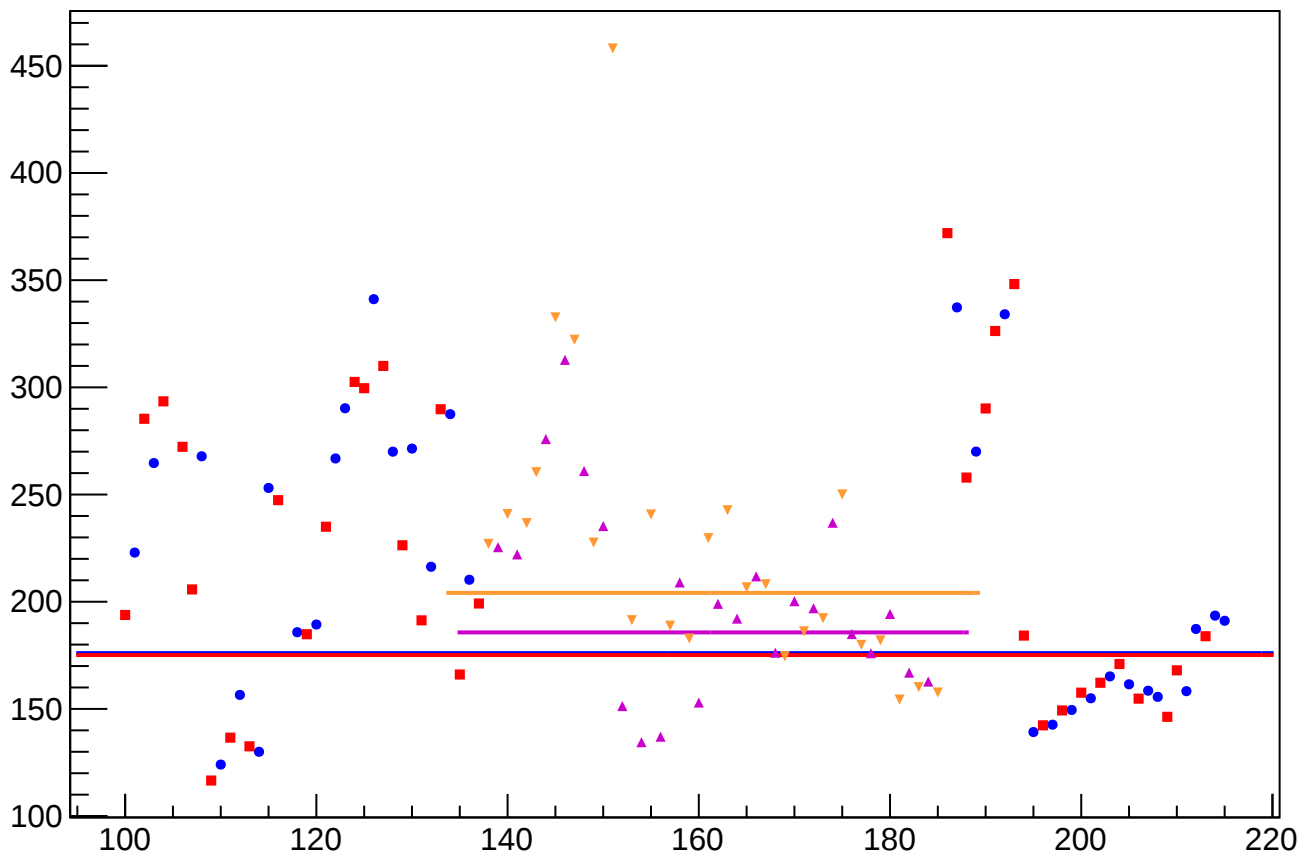
Right: -50.774 ± 31.196 $\chi^2/\text{NDF}: 33.9/65$

In: -12.704 ± 31.873 $\chi^2/\text{NDF}: 27.4/54$

Out: -18.636 ± 32.996 $\chi^2/\text{NDF}: 24.6/58$

All: -15.567 ± 22.924 $\chi^2/\text{NDF}: 52.0/113$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 176.014 $\pm$ 0.031 χ^2 /NDF: 2055517.8/31

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 175.122 $\pm$ 0.031 χ^2 /NDF: 2611870.9/33

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

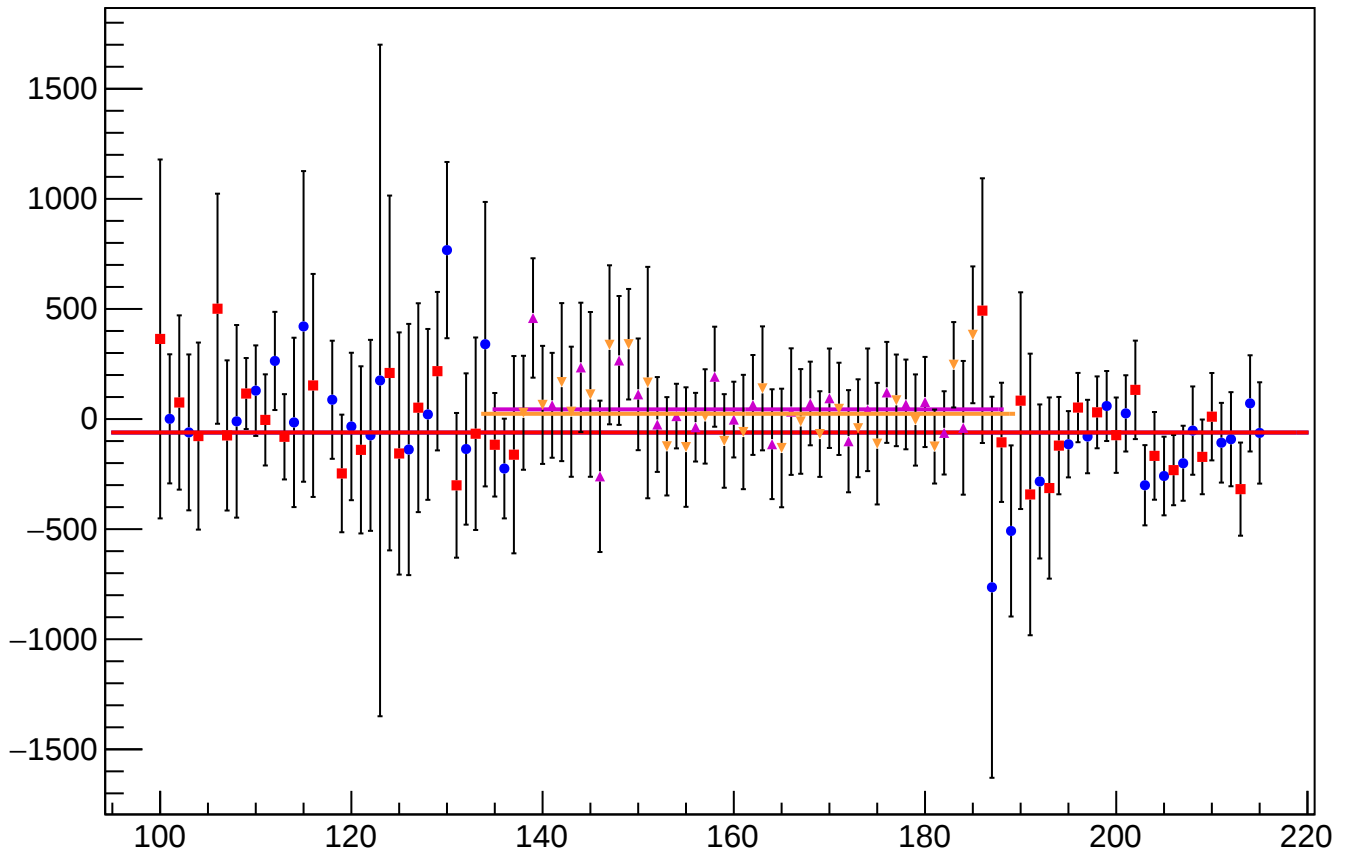
Right: 175.574 $\pm$ 0.022 χ^2 /NDF: 4667797.3/65

In: 180.566 $\pm$ 0.023 χ^2 /NDF:3549238.3/54

Out: 188.147 $\pm$ 0.023 χ^2 /NDF:4666633.7/58

All: 184.225 $\pm$ 0.016 χ^2 /NDF: 8270491.6/113

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -61.407 $\pm$ 43.256 χ^2/NDF : 16.6/31

Left Out: 23.843 $\pm$ 48.783 χ^2/NDF : 8.5/24

Right Out: -60.955 $\pm$ 43.767 χ^2/NDF : 11.6/33

Left In: 43.978 $\pm$ 45.981 χ^2/NDF : 6.5/22

Left: 34.506 $\pm$ 33.460 χ^2/NDF : 15.1/47

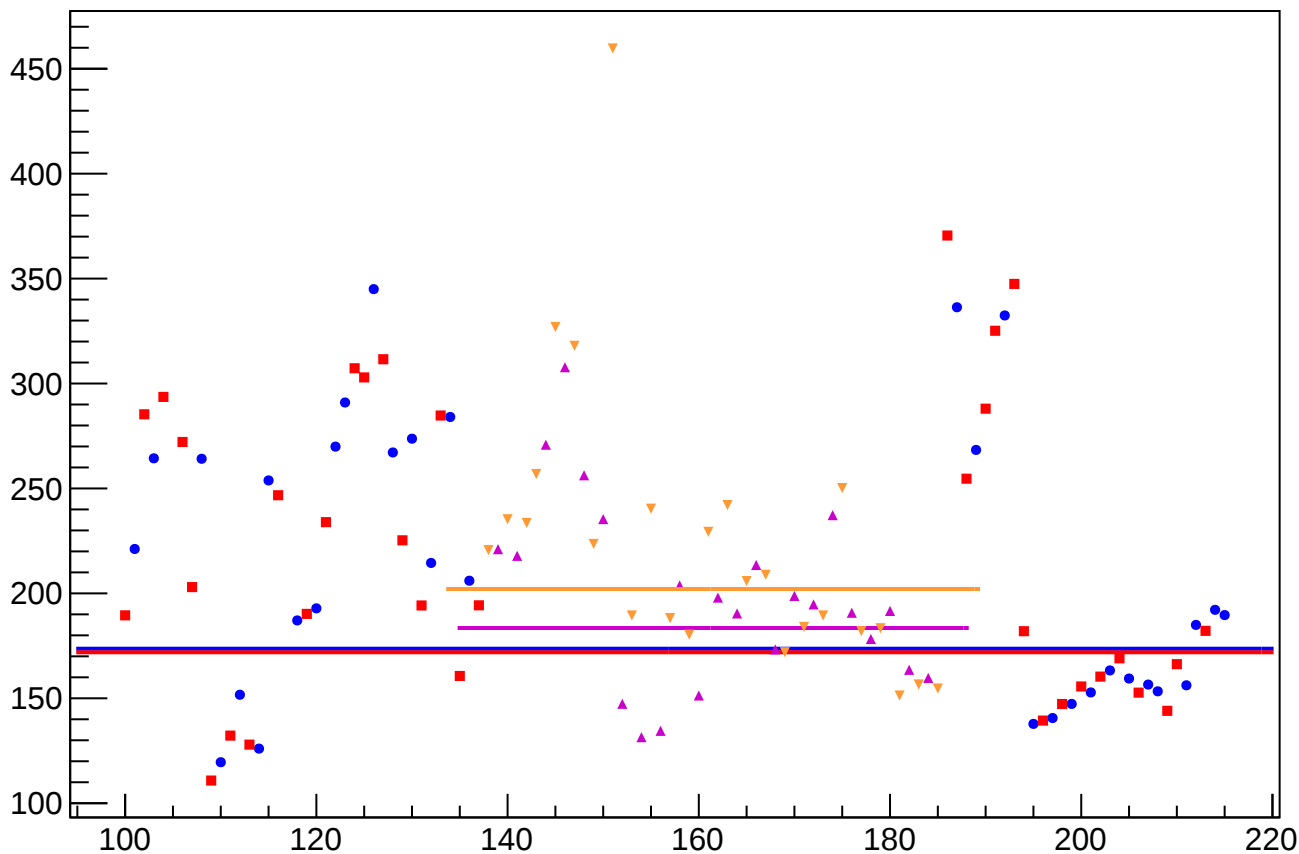
Right: -61.184 $\pm$ 30.766 χ^2/NDF : 28.2/65

In: -11.929 $\pm$ 31.506 χ^2/NDF : 25.9/54

Out: -23.138 $\pm$ 32.577 χ^2/NDF : 21.8/58

All: -17.346 $\pm$ 22.647 χ^2/NDF : 47.8/113

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 173.628+/-0.031 χ^2/NDF : 2140410.9/31

Left Out: 202.081+/-0.034 χ^2/NDF : 1692787.9/24

Right Out: 171.931+/-0.031 χ^2/NDF : 2772824.7/33

Left In: 183.498+/-0.033 χ^2/NDF : 1483383.4/22

Left: 192.240+/-0.024 χ^2/NDF : 3329846.6/47

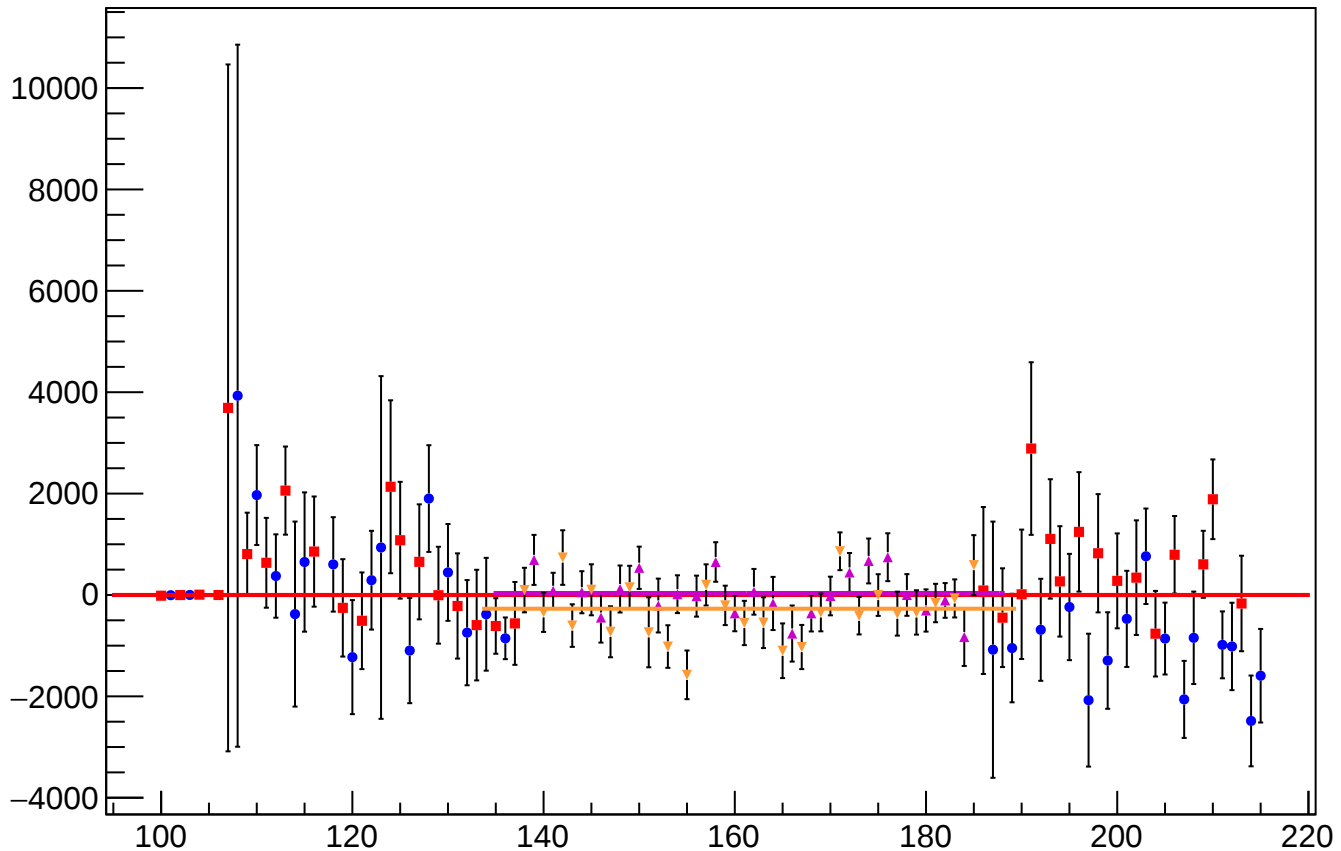
Right: 172.789+/-0.022 χ^2/NDF : 4914756.5/65

In: 178.262+/-0.022 χ^2/NDF : 3672685.2/54

Out: 185.377+/-0.023 χ^2/NDF : 4888865.9/58

All: 181.700+/-0.016 χ^2/NDF : 8610841.9/113

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.627 $\pm$ 2.251 χ^2/NDF : 48.3/31

Left Out: -270.969 $\pm$ 86.967 χ^2/NDF : 38.1/24

Right Out: 0.762 $\pm$ 2.111 χ^2/NDF : 33.5/33

Left In: 39.078 $\pm$ 87.769 χ^2/NDF : 20.3/22

Left: -117.369 $\pm$ 61.777 χ^2/NDF : 64.7/47

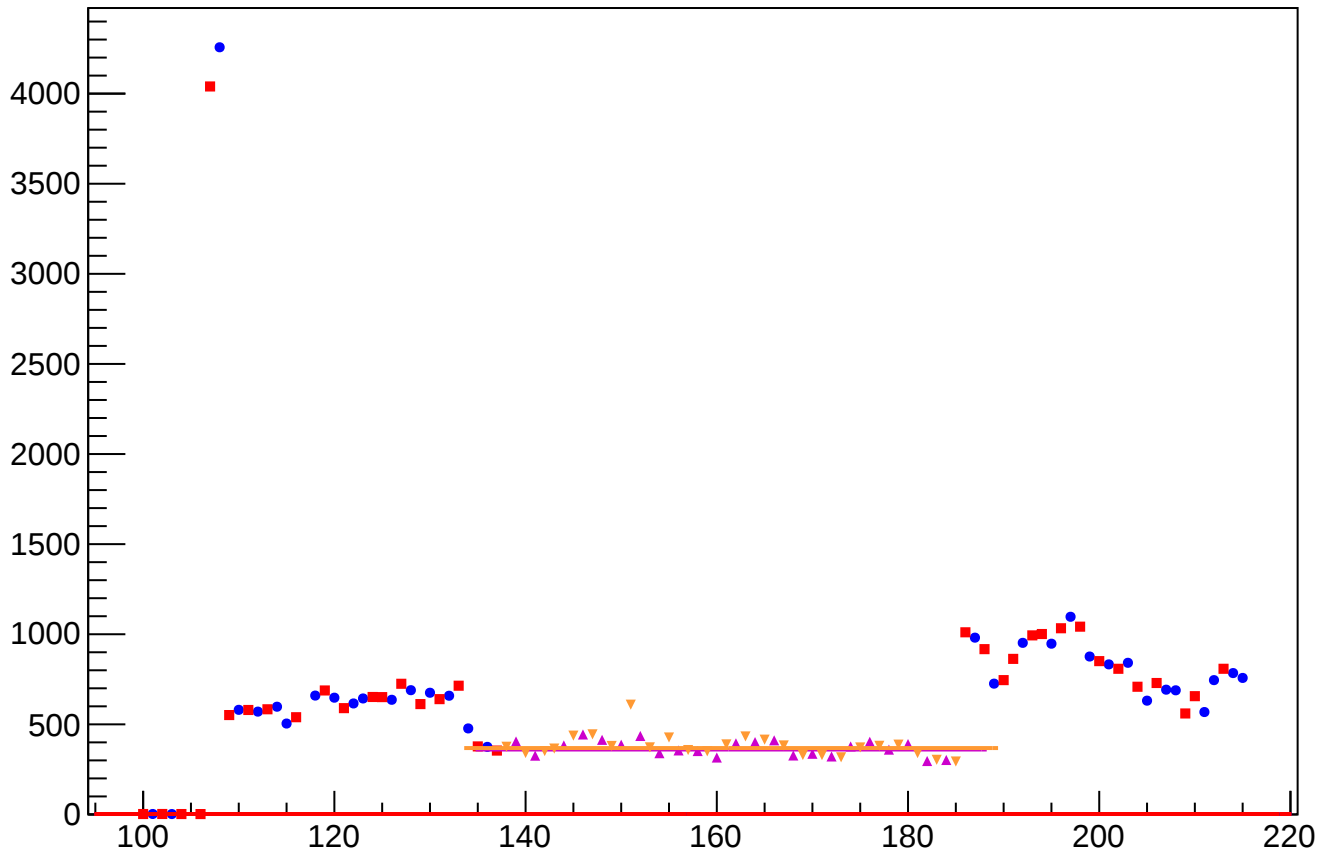
Right: -0.355 $\pm$ 1.540 χ^2/NDF : 82.3/65

In: -1.600 $\pm$ 2.251 χ^2/NDF : 68.7/54

Out: 0.602 $\pm$ 2.110 χ^2/NDF : 81.3/58

All: -0.428 $\pm$ 1.539 χ^2/NDF : 150.6/113

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.525+/-0.002 χ^2/NDF : 31804217.8/31

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.491+/-0.001 χ^2/NDF : 31159386.0/33

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

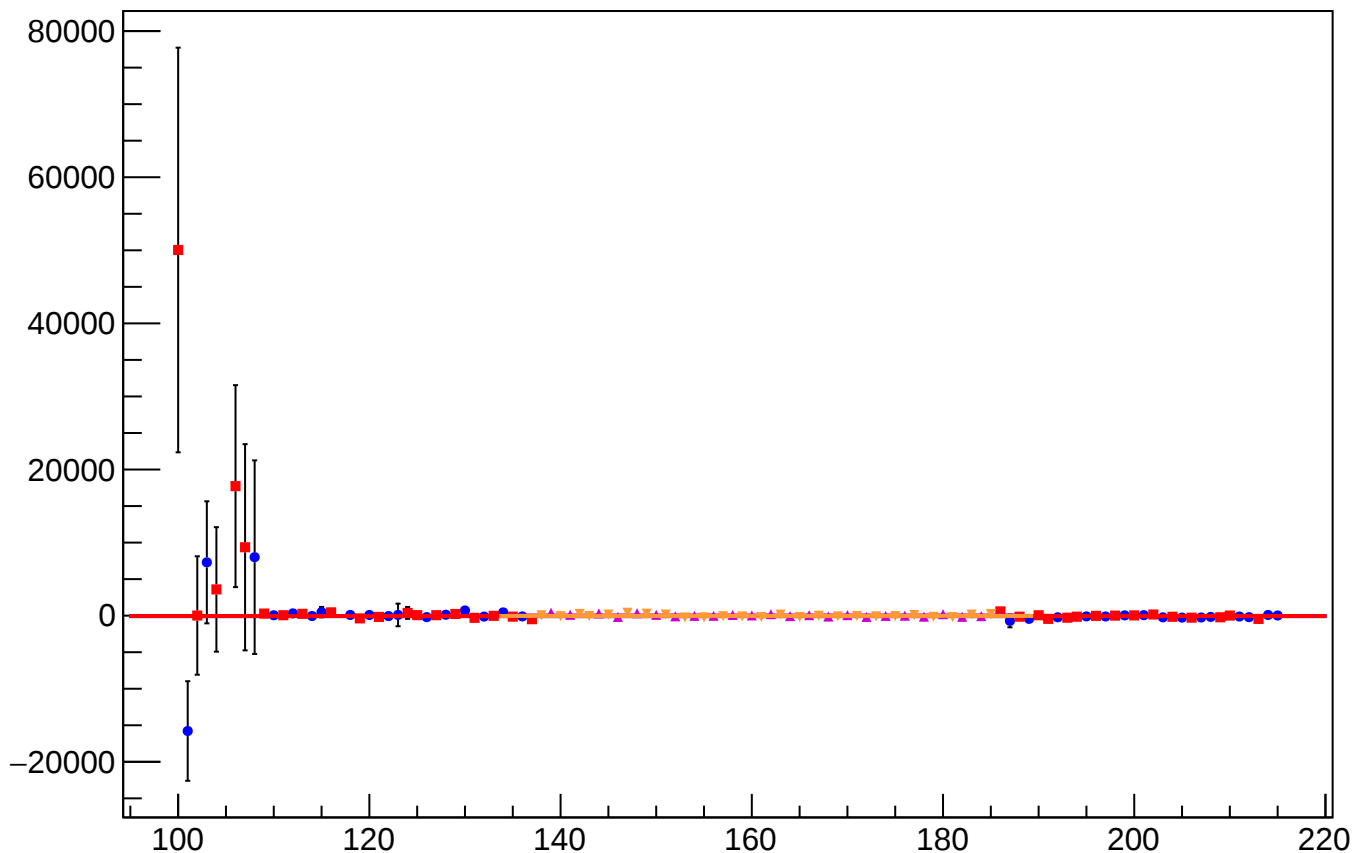
Right: 2.507+/-0.001 χ^2/NDF : 62963842.4/65

In: 2.760+/-0.002 χ^2/NDF : 65452749.9/54

Out: 2.707+/-0.001 χ^2/NDF : 67165372.7/58

All: 2.732+/-0.001 χ^2/NDF : 132618725.0/113

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -58.544 $\pm$ 47.096 χ^2 /NDF: 22.0/31

Left Out: -38.013 $\pm$ 49.628 χ^2 /NDF: 9.3/24

Right Out: -55.982 $\pm$ 48.417 χ^2 /NDF: 24.1/33

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF: 9.2/22

Left: -3.915 $\pm$ 34.564 χ^2 /NDF: 19.4/47

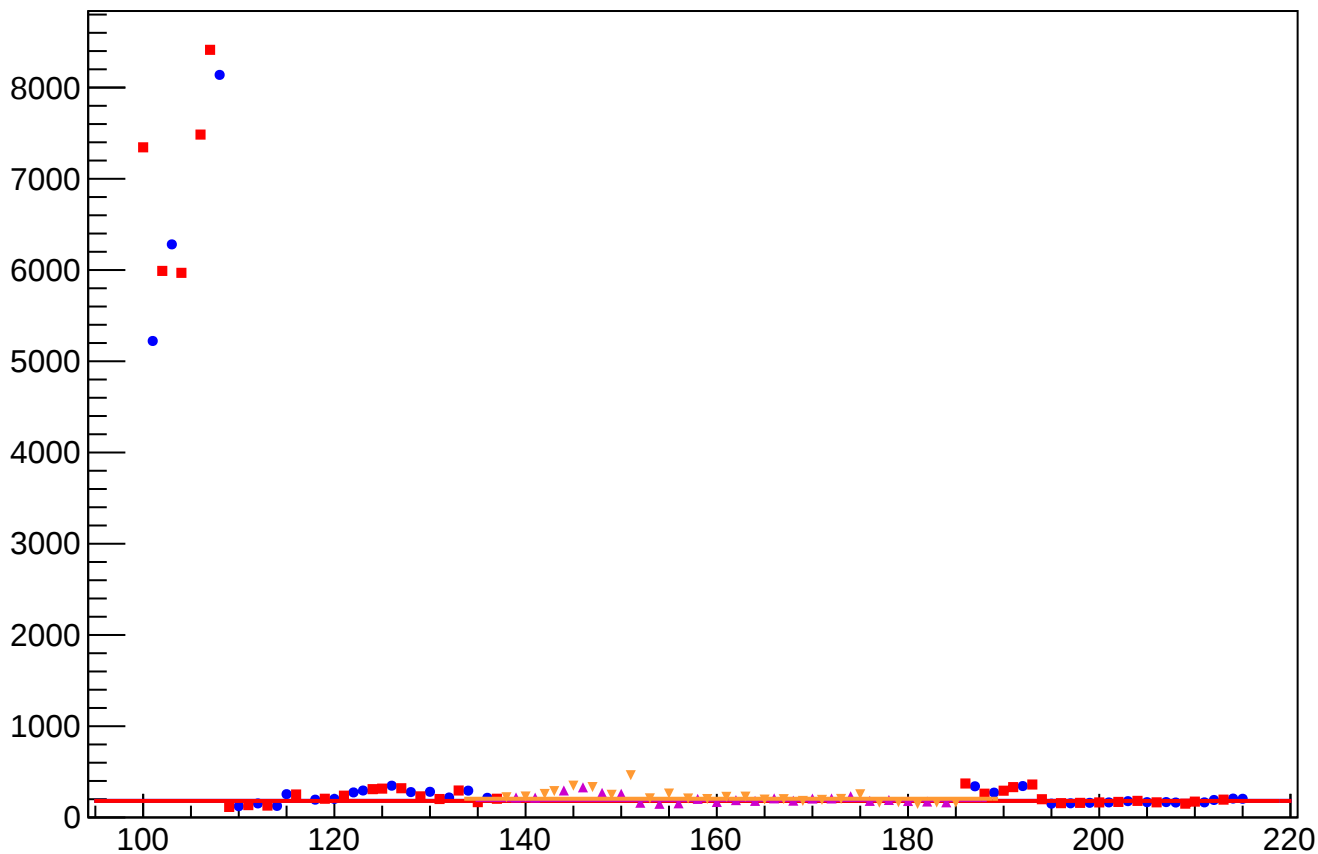
Right: -57.299 $\pm$ 33.759 χ^2 /NDF: 46.1/65

In: -16.145 $\pm$ 33.674 χ^2 /NDF: 32.8/54

Out: -47.220 $\pm$ 34.656 χ^2 /NDF: 33.5/58

All: -31.236 $\pm$ 24.151 χ^2 /NDF: 66.7/113

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.005+/-0.033 χ^2/NDF : 4580681.9/31

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 181.063+/-0.034 χ^2/NDF : 5425244.1/33

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

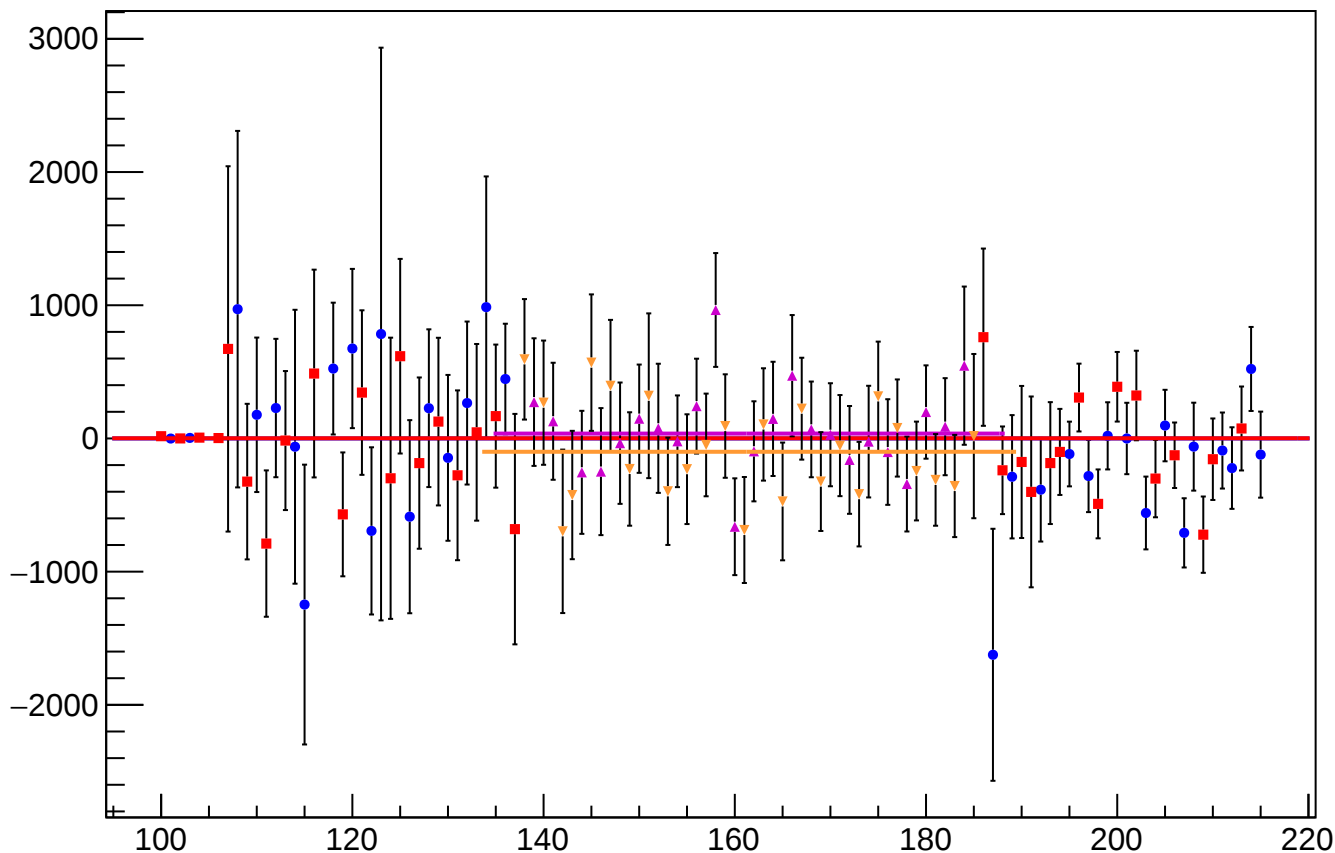
Right: 181.547+/-0.024 χ^2/NDF : 10006314.8/65

In: 187.576+/-0.024 χ^2/NDF :5810128.5/54

Out: 192.749+/-0.025 χ^2/NDF :7620214.8/58

All: 190.088+/-0.017 χ^2/NDF : 13453259.3/11

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.224 $\pm$ 1.736 χ^2/NDF : 31.0/31

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.287 $\pm$ 1.622 χ^2/NDF : 28.1/33

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

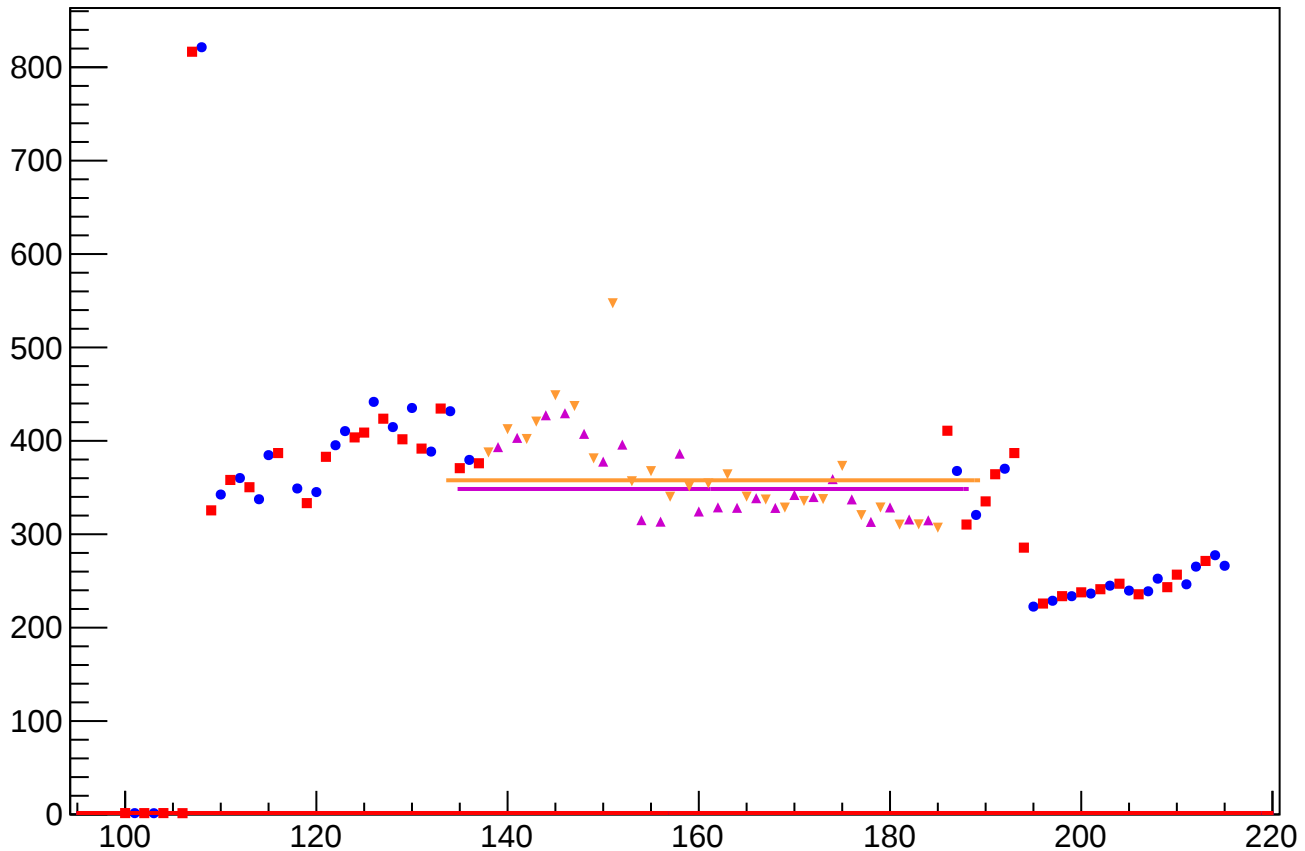
Right: 0.583 $\pm$ 1.185 χ^2/NDF : 59.5/65

In: -0.208 $\pm$ 1.736 χ^2/NDF :44.7/54

Out: 1.250 $\pm$ 1.622 χ^2/NDF :45.3/58

All: 0.570 $\pm$ 1.185 χ^2/NDF : 90.3/113

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.578 $\pm$ 0.001 χ^2 /NDF: 32076692.1/31

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.550 $\pm$ 0.001 χ^2 /NDF: 30866512.3/33

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

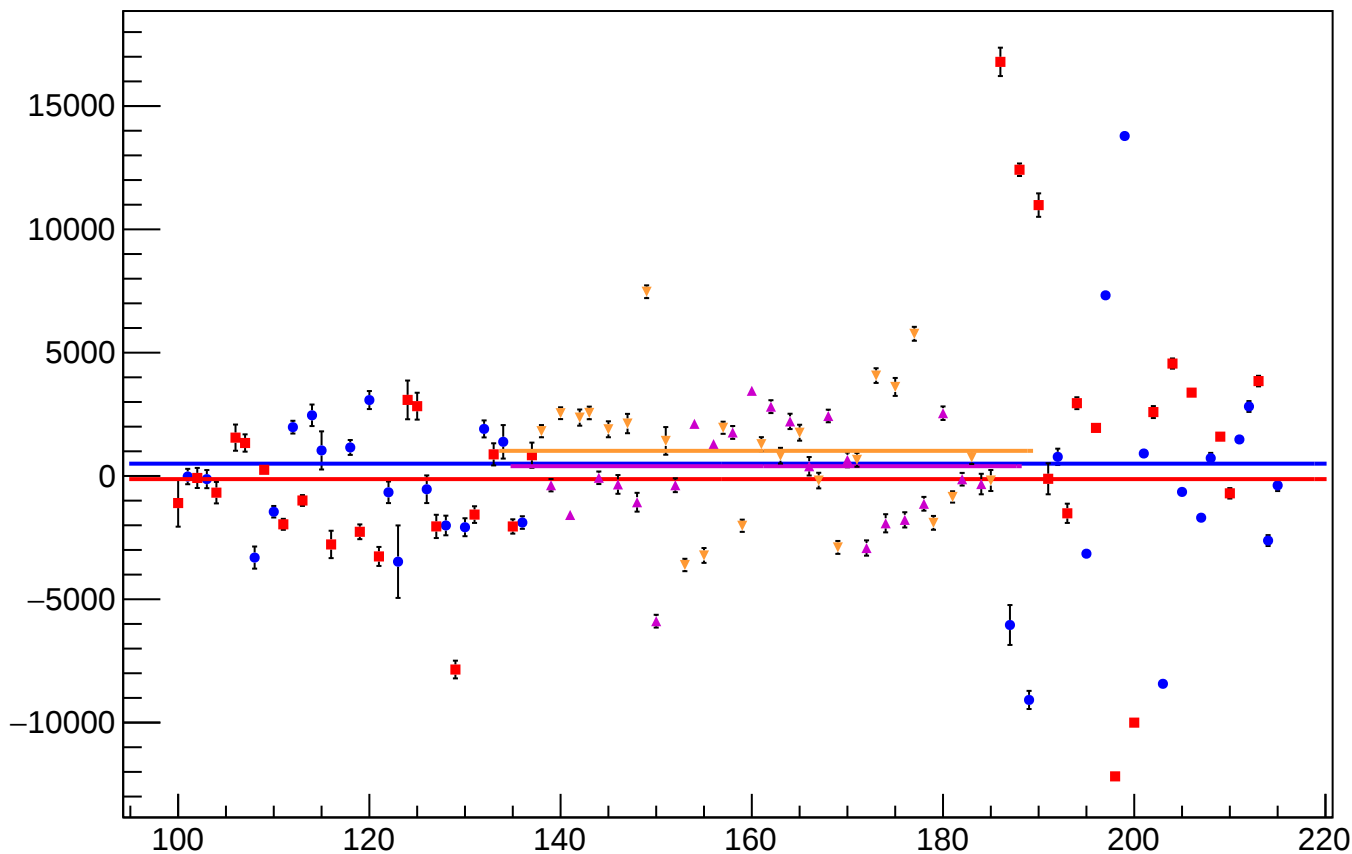
Right: 1.563 $\pm$ 0.001 χ^2 /NDF: 62943477.5/65

In: 1.724 $\pm$ 0.001 χ^2 /NDF: 65988282.1/54

Out: 1.683 $\pm$ 0.001 χ^2 /NDF: 67205872.0/58

All: 1.702 $\pm$ 0.001 χ^2 /NDF: 133194759.4/113

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 499.094 ± 46.626 $\chi^2/\text{NDF}: 11173.1/31$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: -127.454 ± 47.145 $\chi^2/\text{NDF}: 13691.2/33$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

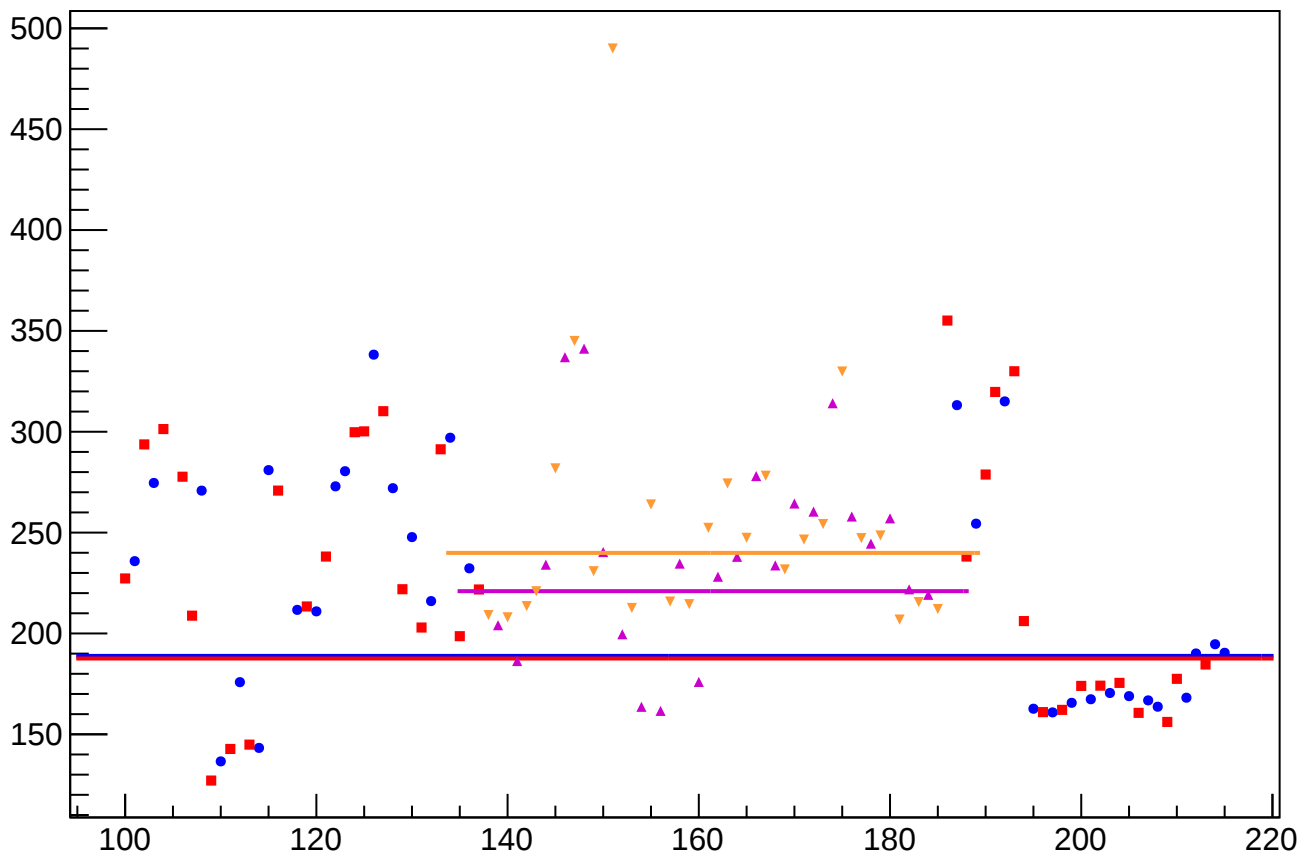
Right: 189.292 ± 33.152 $\chi^2/\text{NDF}: 24953.6/65$

In: 456.321 ± 35.590 $\chi^2/\text{NDF}: 12756.1/54$

Out: 334.359 ± 36.432 $\chi^2/\text{NDF}: 16239.5/58$

All: 396.766 ± 25.459 $\chi^2/\text{NDF}: 29001.4/113$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.871+/-0.033 χ^2/NDF : 1547197.4/31

Left Out: 239.942+/-0.041 χ^2/NDF :1000770.0/24

Right Out: 187.576+/-0.033 χ^2/NDF : 2121642.2/33

Left In: 220.972+/-0.039 χ^2/NDF :1327680.6/22

Left: 230.067+/-0.028 χ^2/NDF : 2442154.9/47

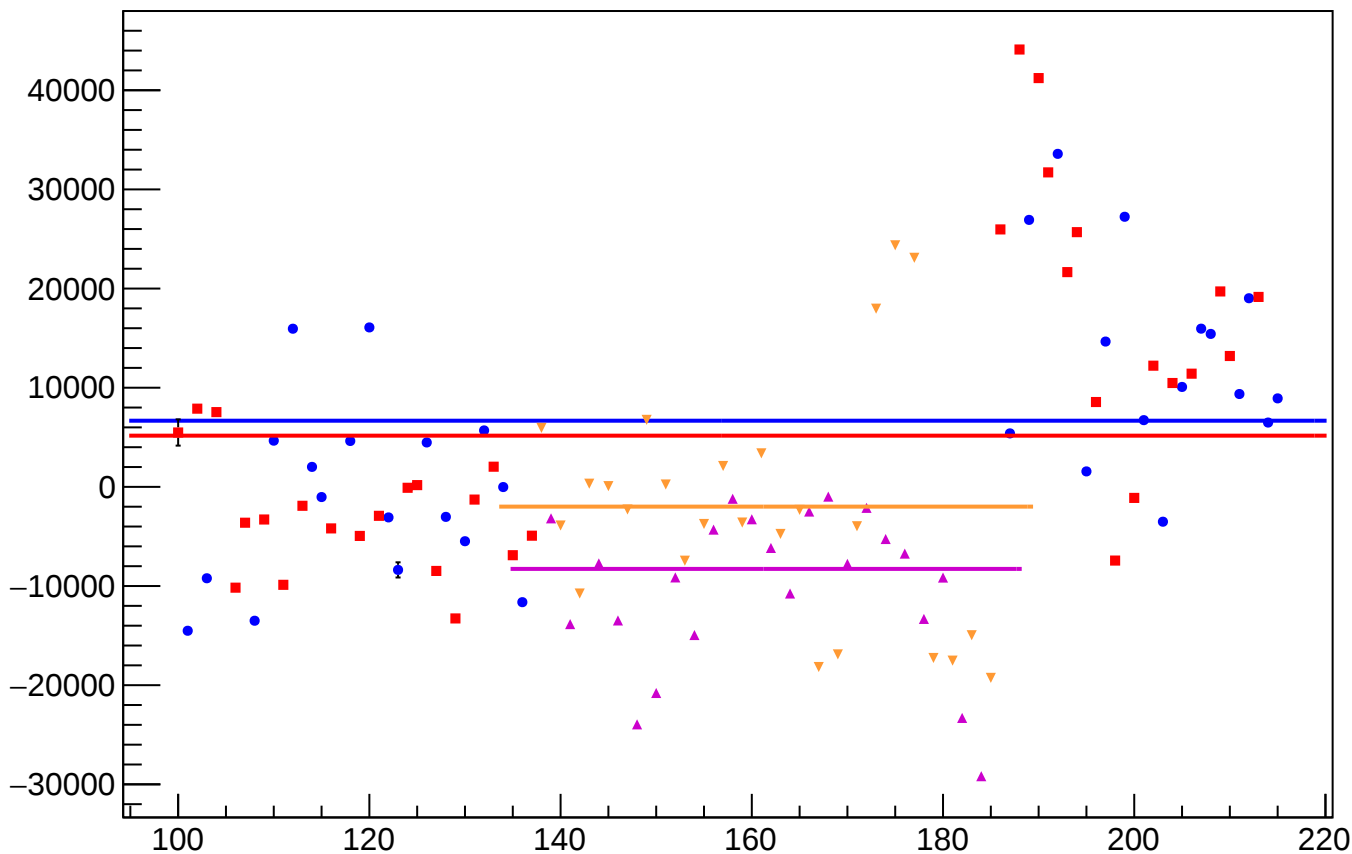
Right: 188.231+/-0.023 χ^2/NDF : 3669603.2/65

In: 202.269+/-0.025 χ^2/NDF :3270515.6/54

Out: 208.670+/-0.026 χ^2/NDF :4116375.4/58

All: 205.395+/-0.018 χ^2/NDF : 7418490.0/113

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6672.533+/-39.654 χ^2/NDF : 93771.6/31

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5164.569+/-38.756 χ^2/NDF : 144038.9/33

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

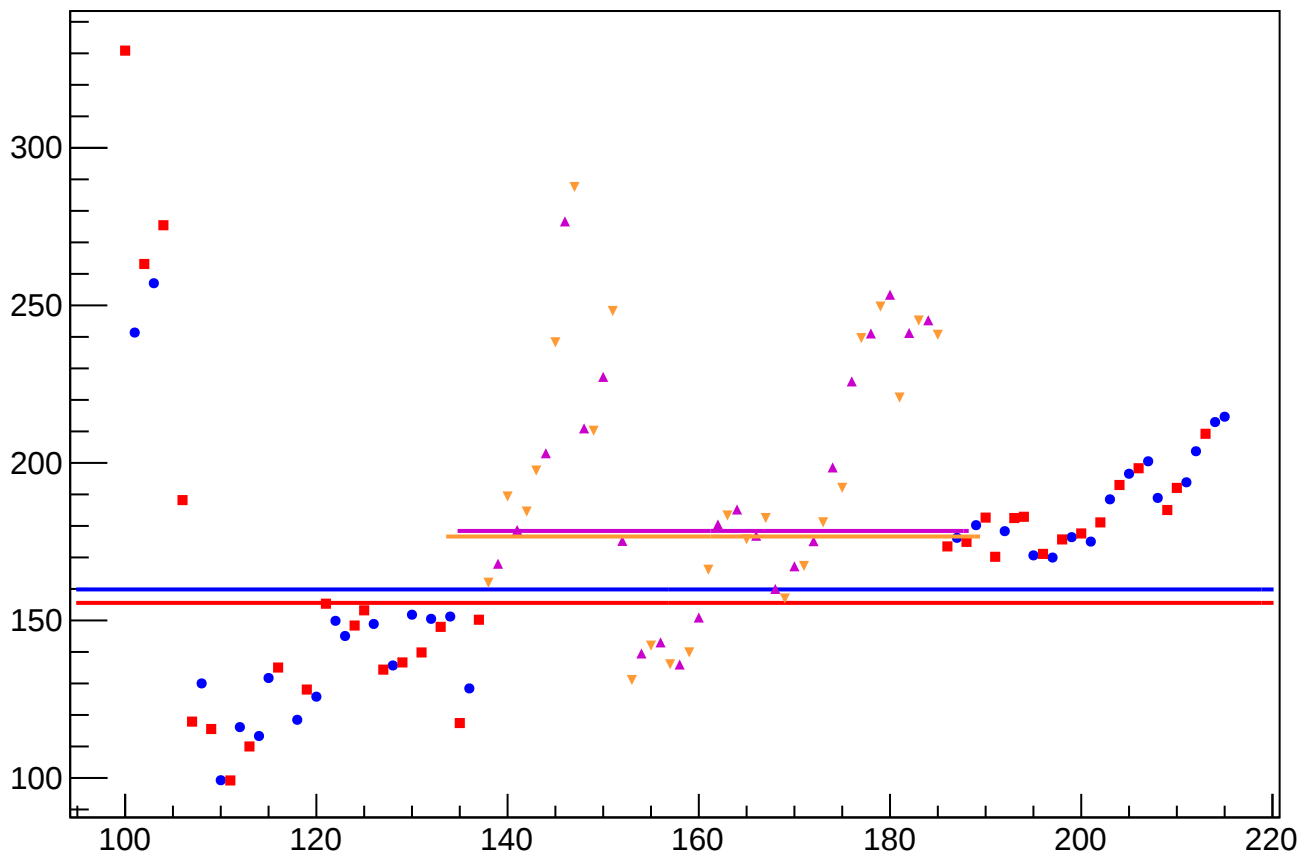
Right: 5901.272+/-27.717 χ^2/NDF : 238550.1/65

In: 24.331+/-29.547 χ^2/NDF : 179830.3/54

Out: 1909.320+/-28.614 χ^2/NDF : 223315.0/58

All: 997.030+/-20.555 χ^2/NDF : 405245.5/113

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 159.839+/-0.028 χ^2/NDF : 1625934.8/31

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 155.571+/-0.027 χ^2/NDF : 1731052.3/33

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

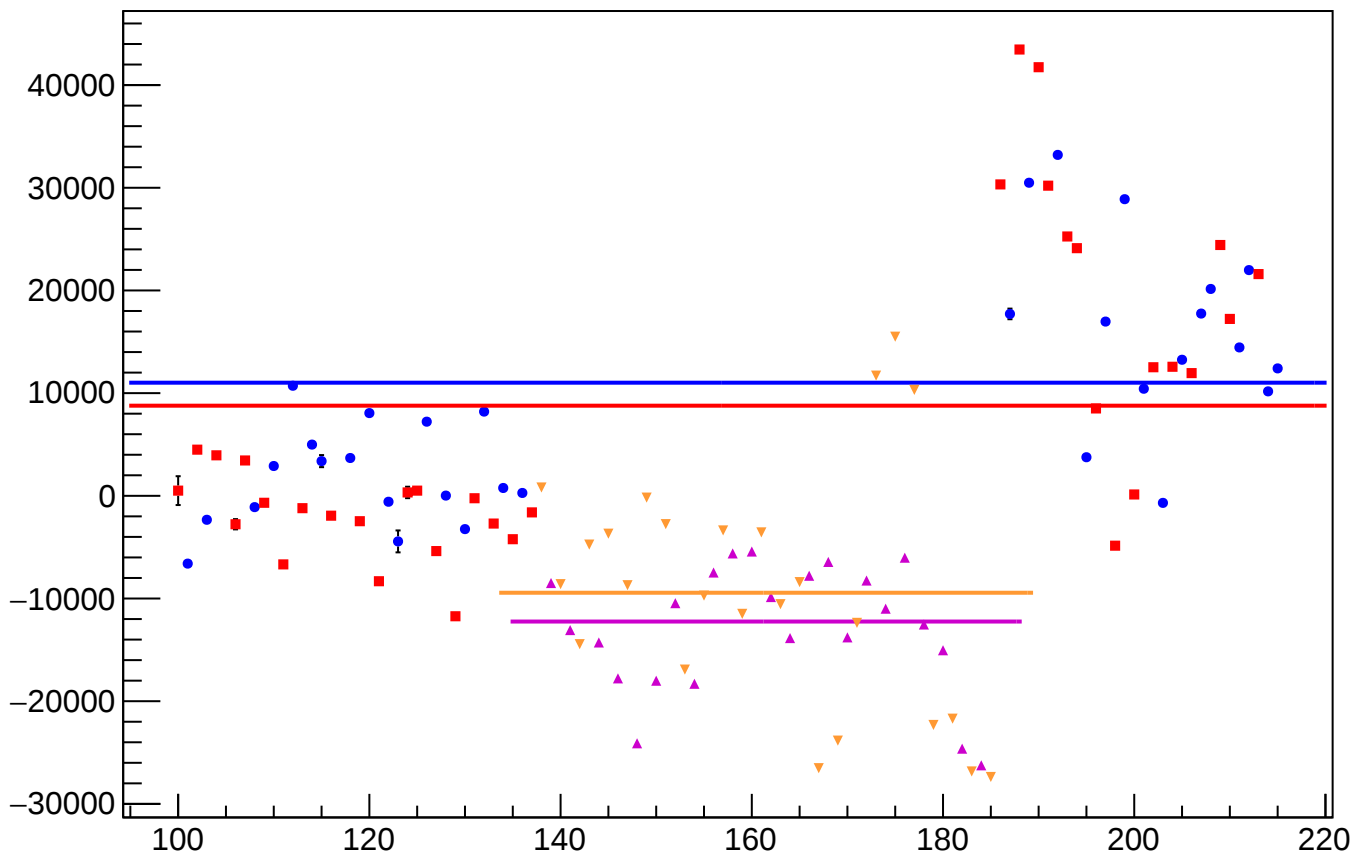
Right: 157.656+/-0.020 χ^2/NDF : 3368835.6/65

In: 168.101+/-0.021 χ^2/NDF :3114855.1/54

Out: 165.155+/-0.020 χ^2/NDF :3550973.0/58

All: 166.581+/-0.015 χ^2/NDF : 6676088.4/113

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11017.661 $\pm$ 43.579

χ^2 /NDF: 55173.7/31

Left Out: -9437.408 $\pm$ 45.534

χ^2 /NDF: 62220.4/24

Right Out: 8778.623 $\pm$ 42.880

χ^2 /NDF: 115696.0/33

Left In: -12242.226 $\pm$ 43.944

χ^2 /NDF: 16615.8/22

Left: -10889.638 $\pm$ 31.621 χ^2 /NDF: 80800.7/47

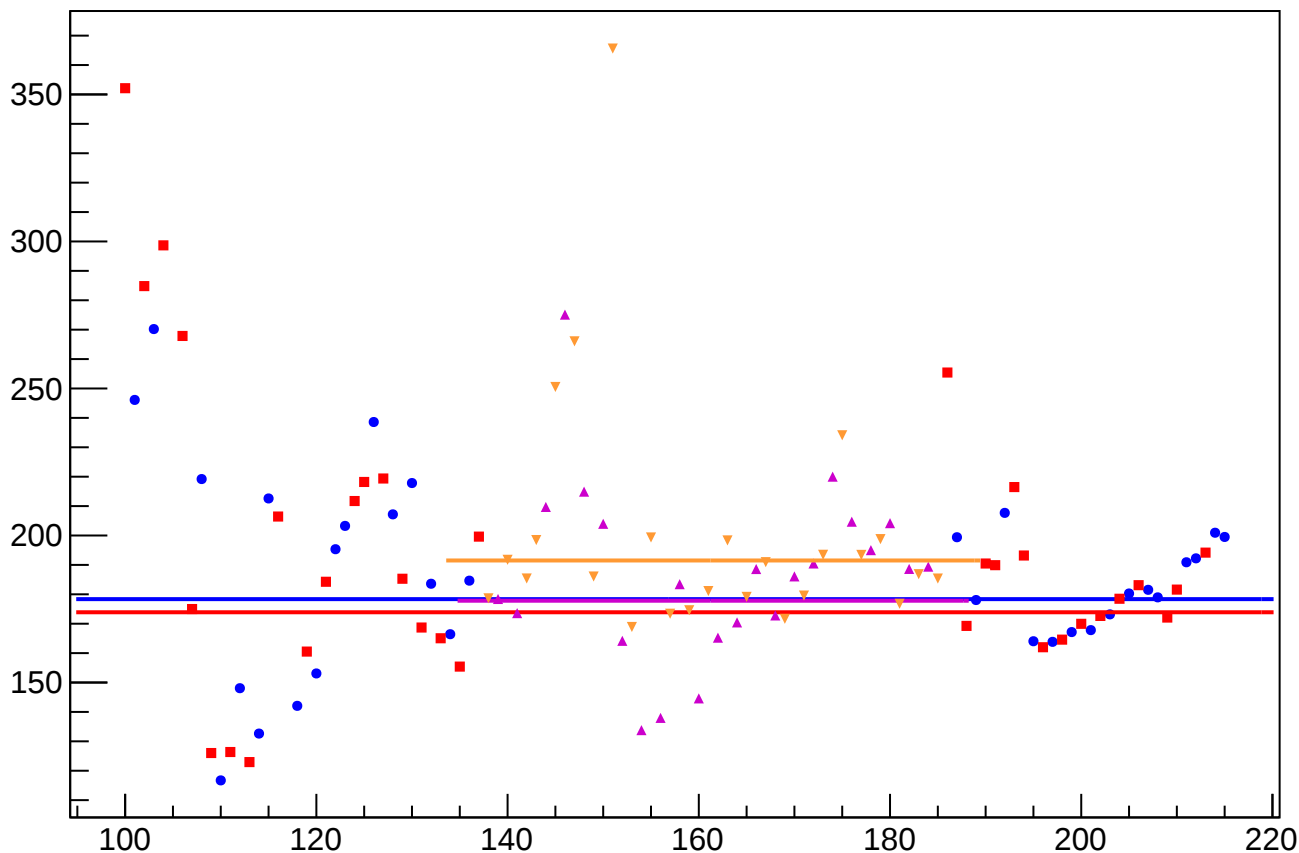
Right: 9880.036 $\pm$ 30.565 χ^2 /NDF: 172211.0/65

In: -515.255 $\pm$ 30.944 χ^2 /NDF: 213038.7/54

Out: 216.964 $\pm$ 31.217 χ^2 /NDF: 262736.7/58

All: -152.367 $\pm$ 21.976 χ^2 /NDF: 476052.9/111

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.360+/-0.031 χ^2/NDF : 819184.8/31

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.891+/-0.030 χ^2/NDF : 1151604.9/33

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

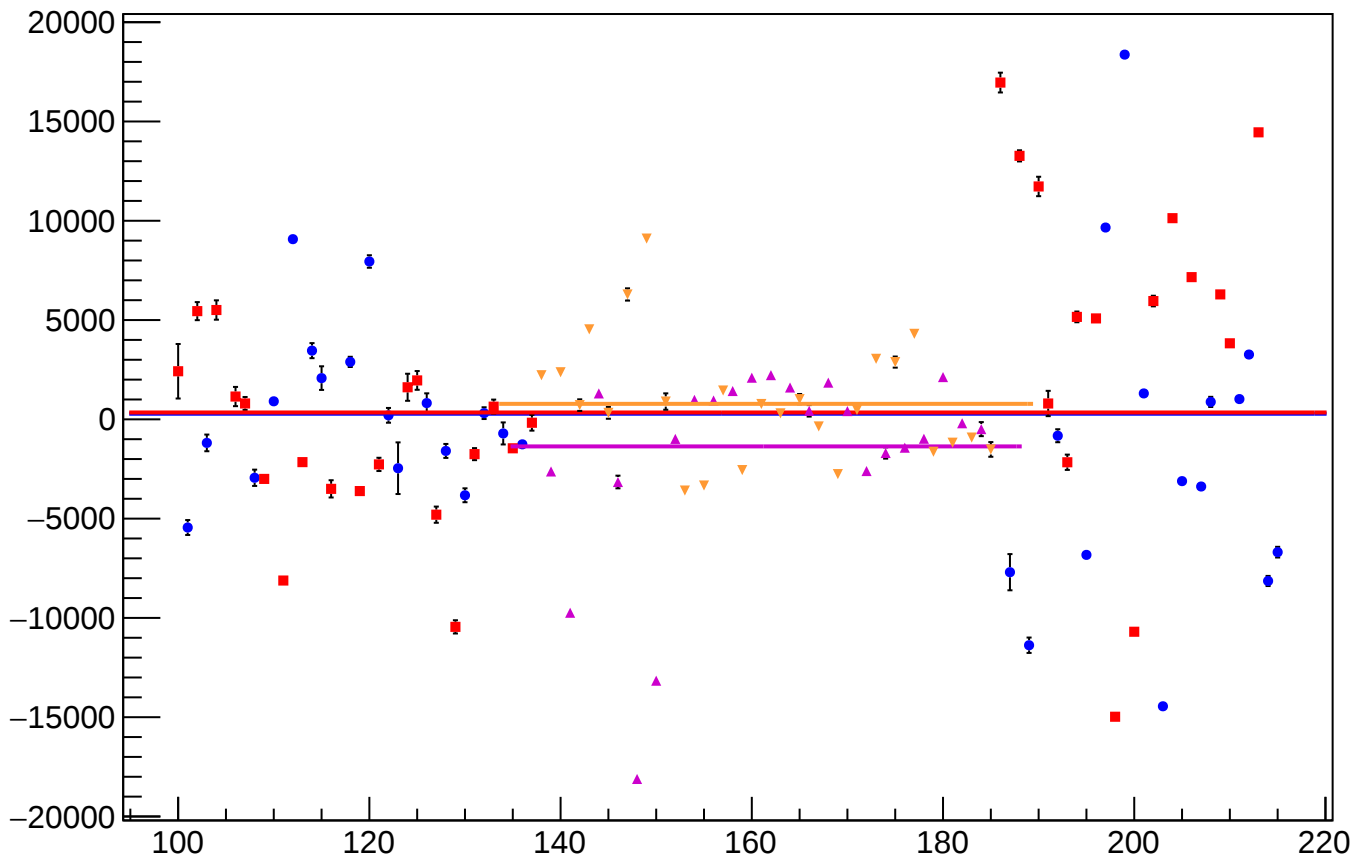
Right: 176.089+/-0.022 χ^2/NDF : 1981477.0/65

In: 178.093+/-0.022 χ^2/NDF : 1681830.6/54

Out: 182.170+/-0.022 χ^2/NDF : 2037506.3/58

All: 180.114+/-0.016 χ^2/NDF : 3736547.4/113

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 282.412 ± 48.813 $\chi^2/\text{NDF}: 22329.3/31$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 345.795 ± 48.260 $\chi^2/\text{NDF}: 24948.3/33$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

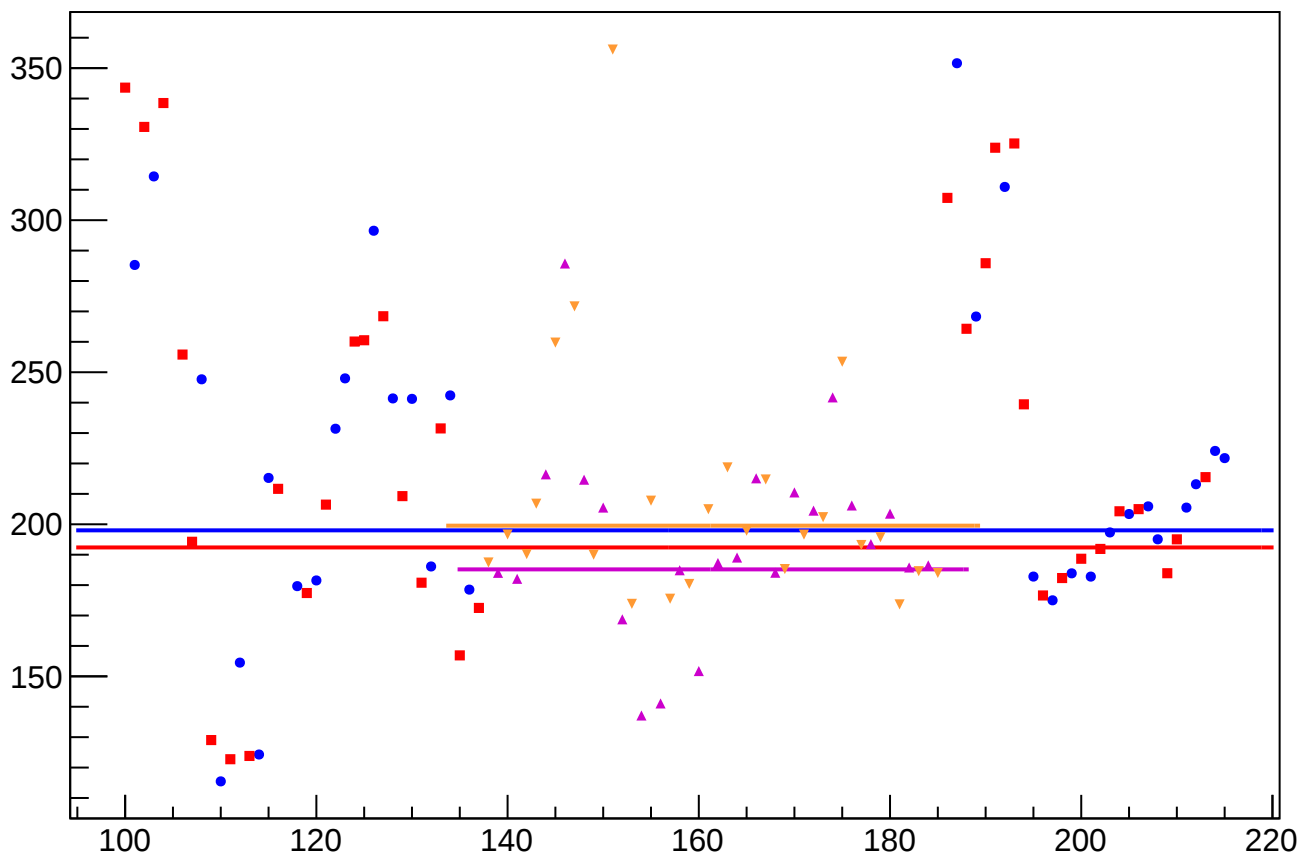
Right: 314.464 ± 34.319 $\chi^2/\text{NDF}: 47278.4/65$

In: -592.538 ± 33.402 $\chi^2/\text{NDF}: 34566.4/54$

Out: 566.529 ± 33.838 $\chi^2/\text{NDF}: 29250.2/58$

All: -20.507 ± 23.771 $\chi^2/\text{NDF}: 64410.8/113$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 198.008 ± 0.035 $\chi^2/\text{NDF}: 1468370.0/31$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 192.384 ± 0.034 $\chi^2/\text{NDF}: 2162853.9/33$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

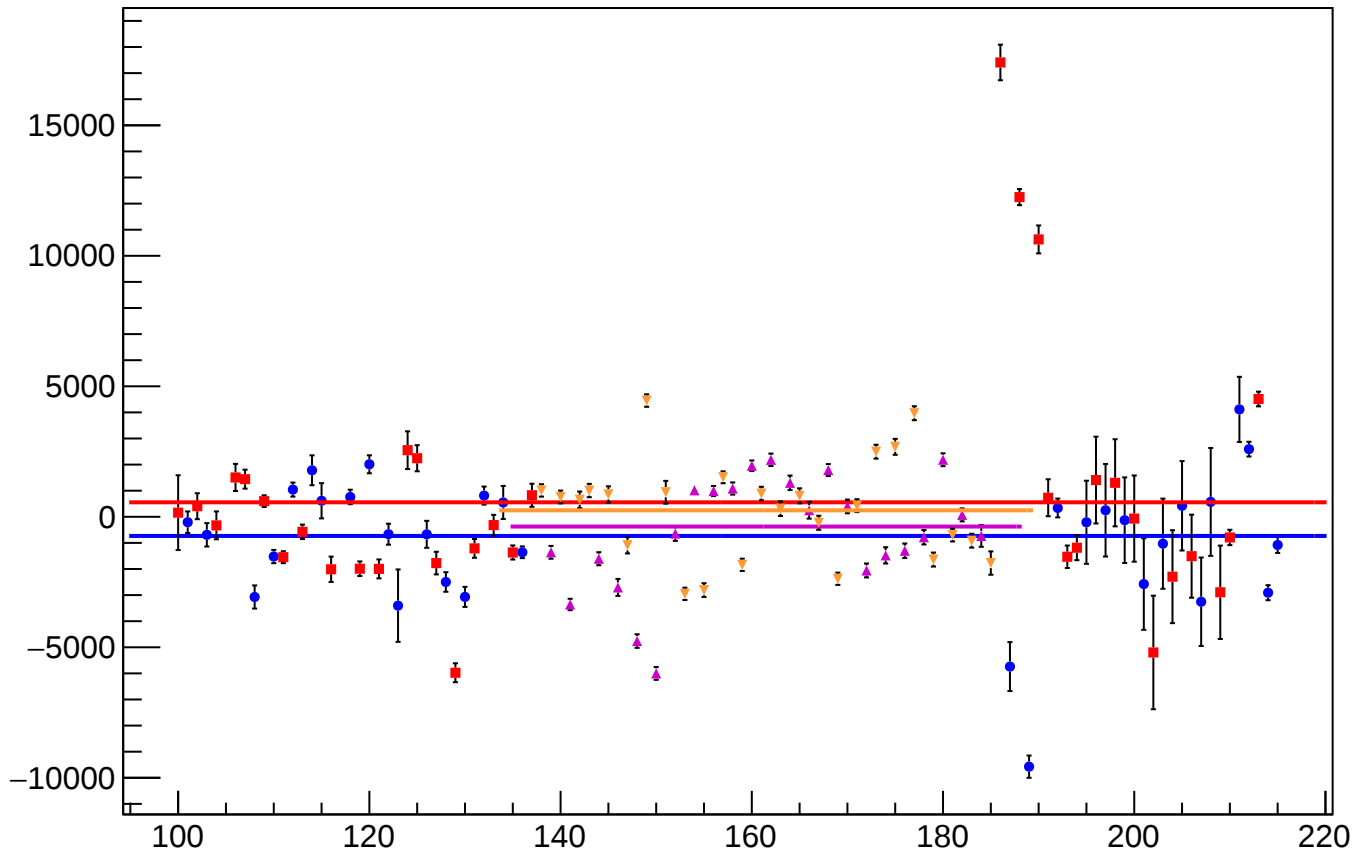
Right: 195.164 ± 0.024 $\chi^2/\text{NDF}: 3644650.8/65$

In: 191.182 ± 0.024 $\chi^2/\text{NDF}: 2424683.8/54$

Out: 196.026 ± 0.024 $\chi^2/\text{NDF}: 2914606.7/58$

All: 193.572 ± 0.017 $\chi^2/\text{NDF}: 5360044.6/113$

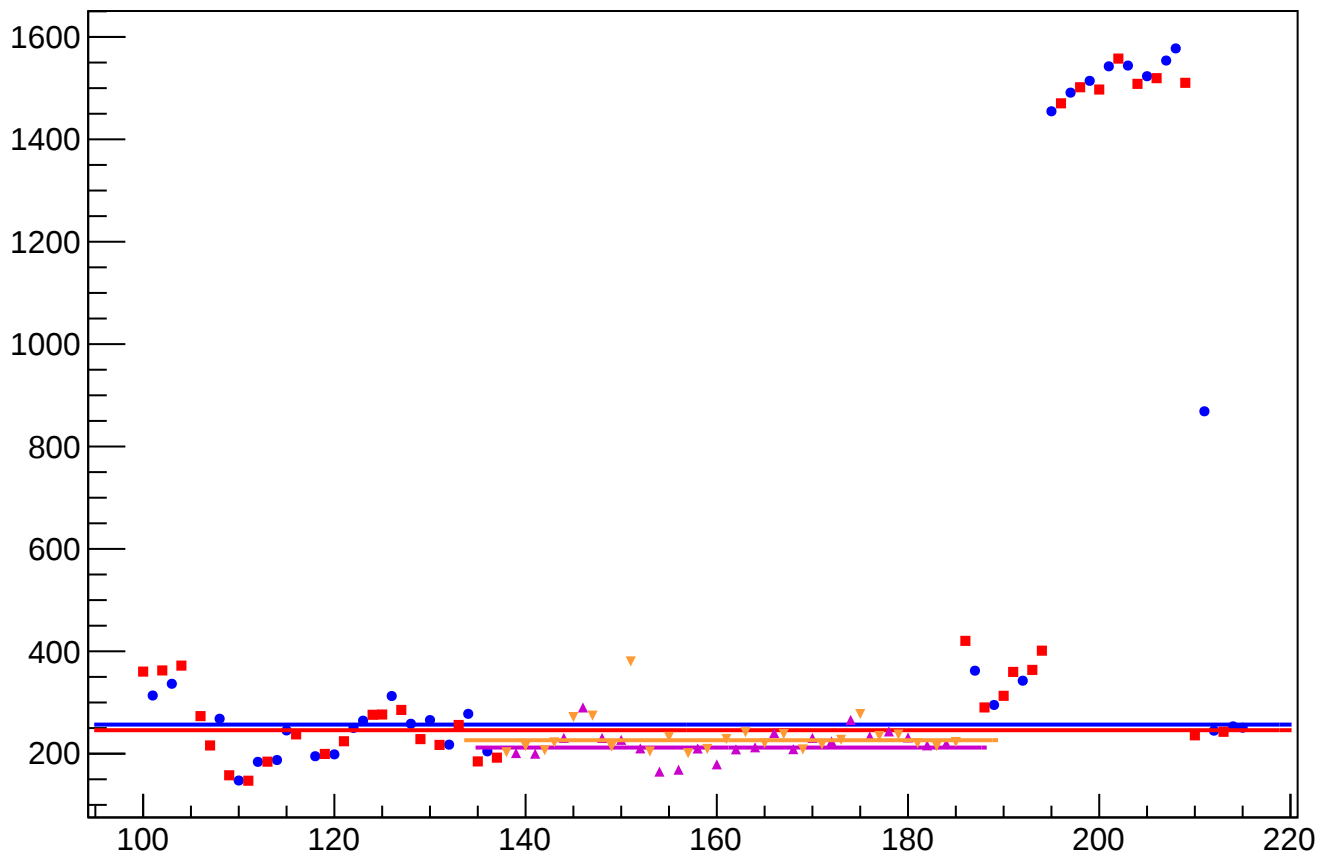
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -733.485 ± 74.568 $\chi^2/\text{NDF}: 977.3/31$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 555.028 ± 70.319 $\chi^2/\text{NDF}: 3400.3/33$
 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: -51.467 ± 51.159 $\chi^2/\text{NDF}: 4535.6/65$
 In: -491.849 ± 42.680 $\chi^2/\text{NDF}: 2793.9/54$
 Out: 360.612 ± 42.605 $\chi^2/\text{NDF}: 4767.5/58$
 All: -64.871 ± 30.153 $\chi^2/\text{NDF}: 7761.2/113$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.836 $\pm$ 0.053 χ^2 /NDF: 10146968.3/31

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 245.898 $\pm$ 0.050 χ^2 /NDF: 9273307.6/33

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

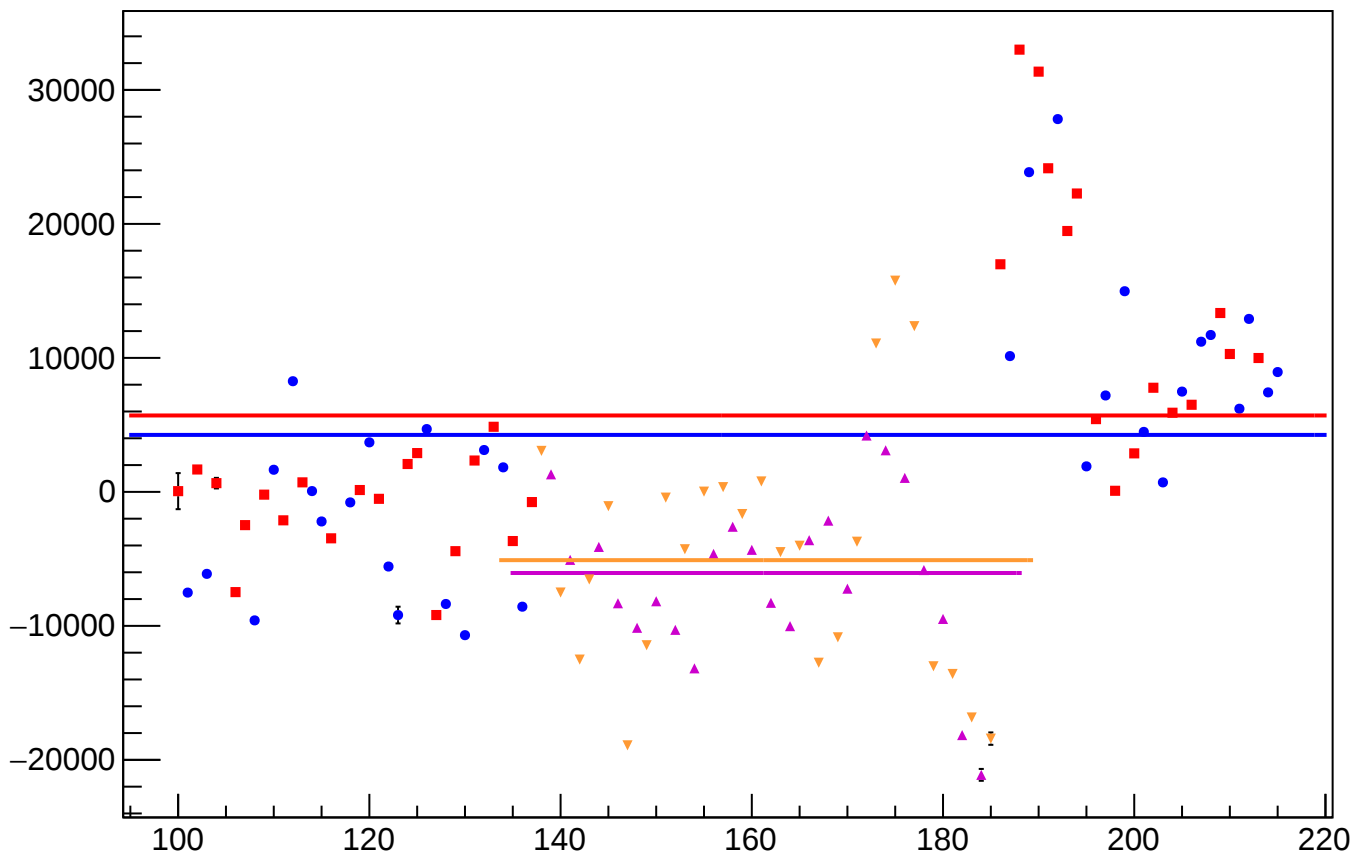
Right: 251.047 $\pm$ 0.036 χ^2 /NDF: 19443053.8/65

In: 226.668 $\pm$ 0.030 χ^2 /NDF: 11218155.1/54

Out: 233.508 $\pm$ 0.030 χ^2 /NDF: 9892454.8/58

All: 230.094 $\pm$ 0.021 χ^2 /NDF: 21136339.0/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4252.380 $\pm$ 33.717 χ^2/NDF : 80123.8/31

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF : 54395.4/24

Right Out: 5703.034 $\pm$ 32.712 χ^2/NDF : 103898.9/33

Left In: -6053.569 $\pm$ 34.998 χ^2/NDF : 17590.3/22

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

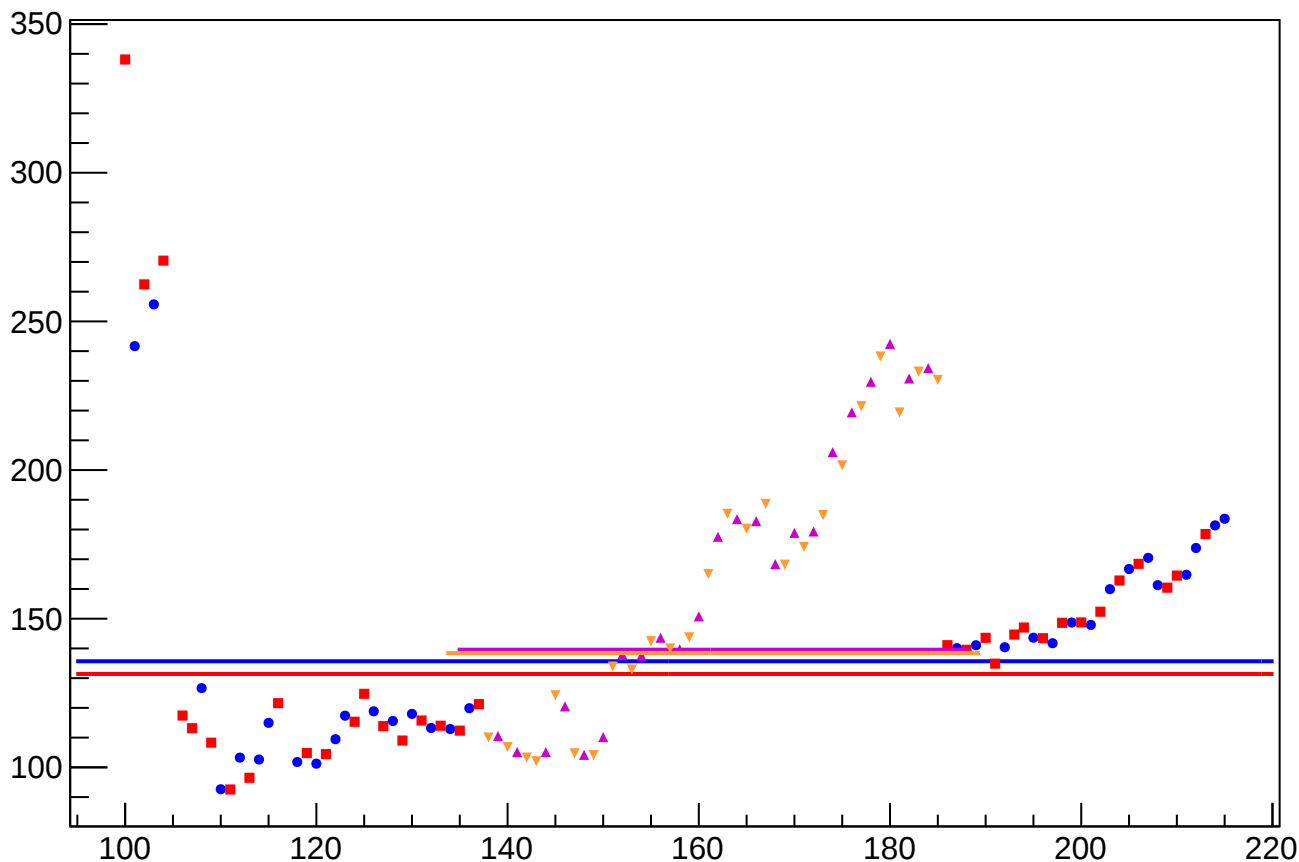
Right: 4999.665 $\pm$ 23.478 χ^2/NDF : 184976.2/65

In: -708.589 $\pm$ 24.282 χ^2/NDF : 142686.5/54

Out: 465.084 $\pm$ 23.473 χ^2/NDF : 211152.6/58

All: -101.888 $\pm$ 16.877 χ^2/NDF : 355046.8/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 135.684+/-0.024 χ^2/NDF : 1632037.2/31

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

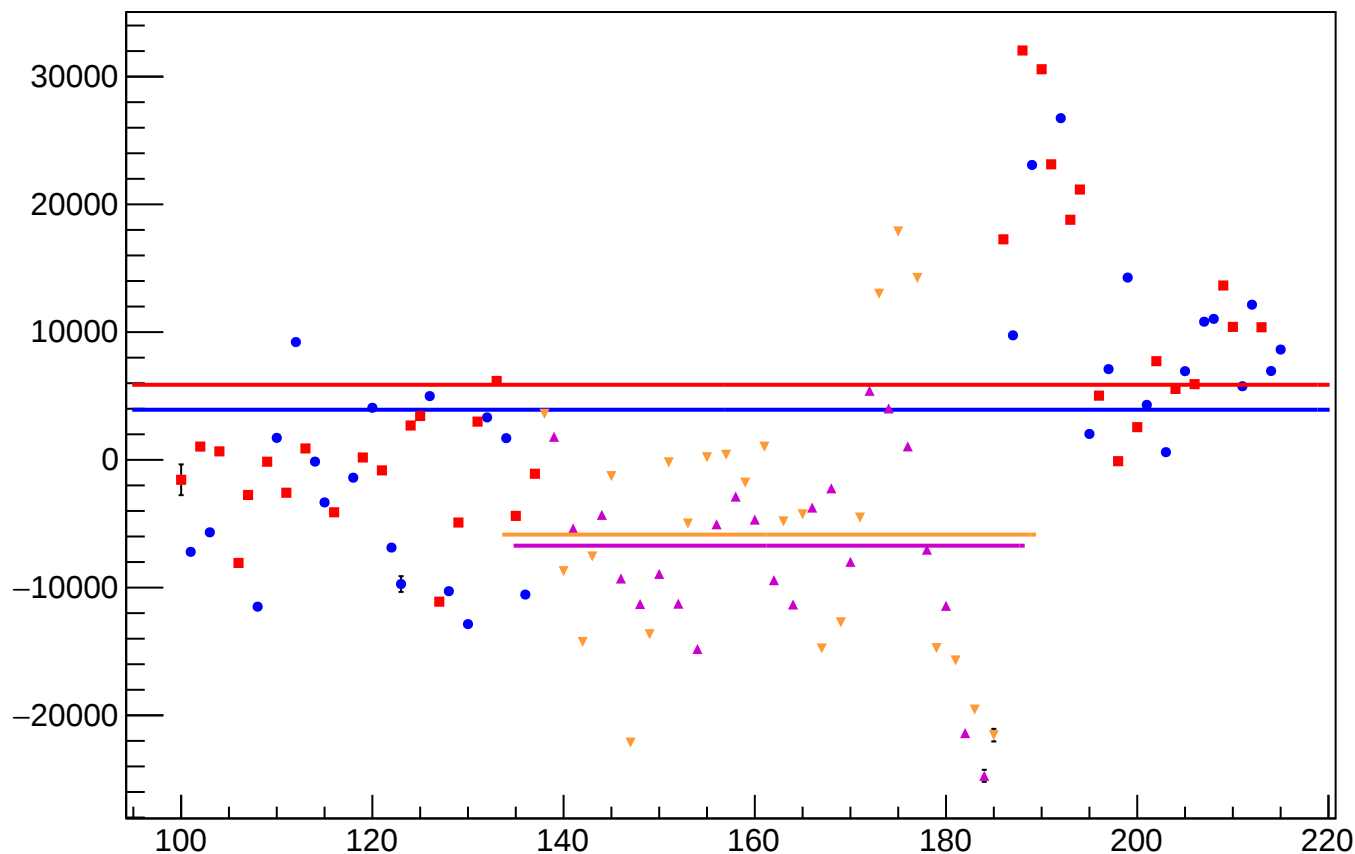
Right: 133.481+/-0.017 χ^2/NDF : 3234165.6/65

In: 137.558+/-0.017 χ^2/NDF :4058535.5/54

Out: 134.817+/-0.017 χ^2/NDF :4179773.7/58

All: 136.141+/-0.012 χ^2/NDF : 8251489.0/113

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3922.607 +/- 33.640

χ^2/NDF : 85267.5/31

Left: -6268.993 +/- 25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544 +/- 35.880

χ^2/NDF : 63411.4/24

Right: 4923.433 +/- 23.495

χ^2/NDF : 191670.9/65

Right Out: 5876.653 +/- 32.830

χ^2/NDF : 104675.2/33

In: -853.798 +/- 24.974

χ^2/NDF : 151115.7/54

Out: 531.654 +/- 24.221

χ^2/NDF : 226253.5/58

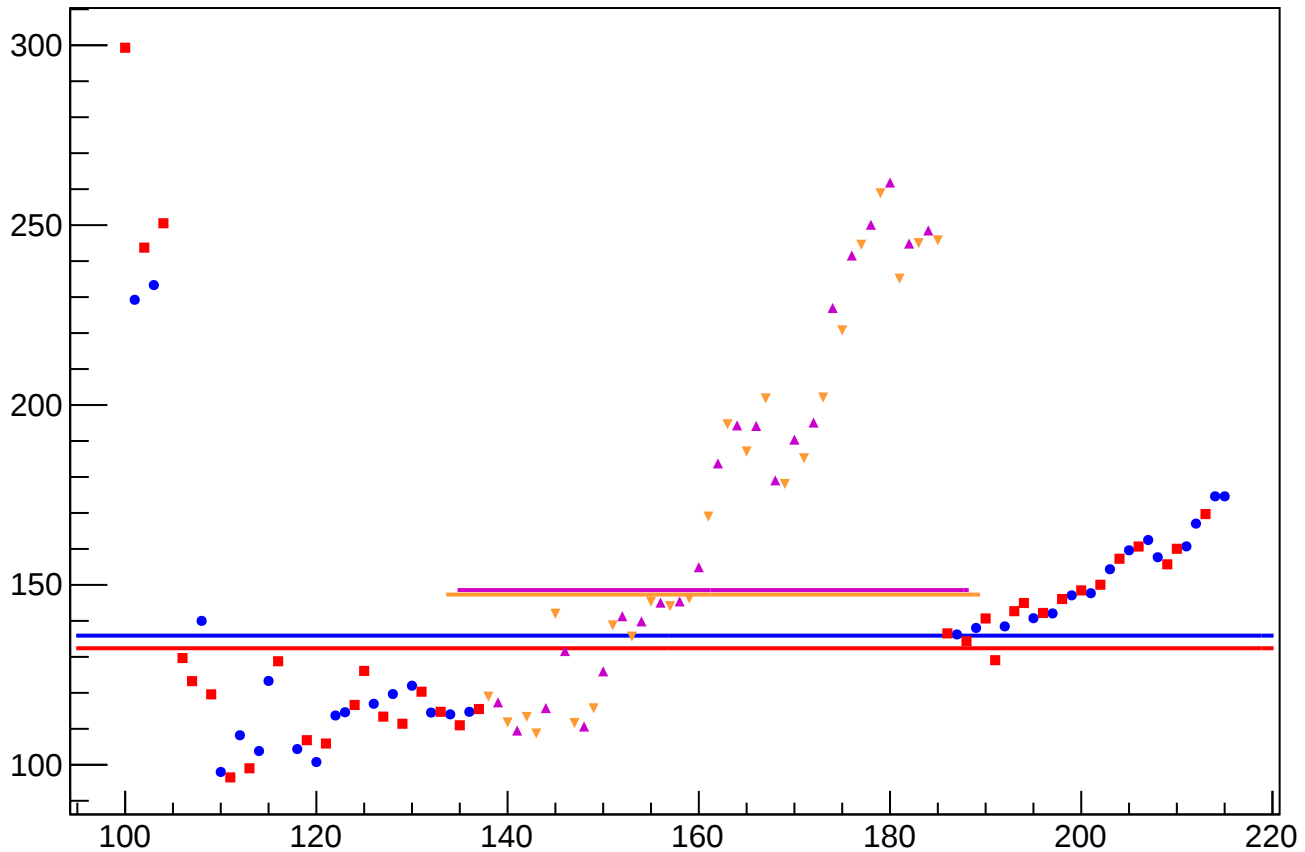
Left In: -6718.475 +/- 37.276

χ^2/NDF : 20934.3/22

All: -139.876 +/- 17.387

χ^2/NDF : 378955.2/11

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.903 $\pm$ 0.024 χ^2/NDF : 1285690.1/31

Left Out: 147.317 $\pm$ 0.025 χ^2/NDF : 2511679.9/24

Right Out: 132.398 $\pm$ 0.023 χ^2/NDF : 1229295.8/33

Left In: 148.569 $\pm$ 0.026 χ^2/NDF : 2393185.0/22

Left: 147.919 $\pm$ 0.018 χ^2/NDF : 4906034.9/47

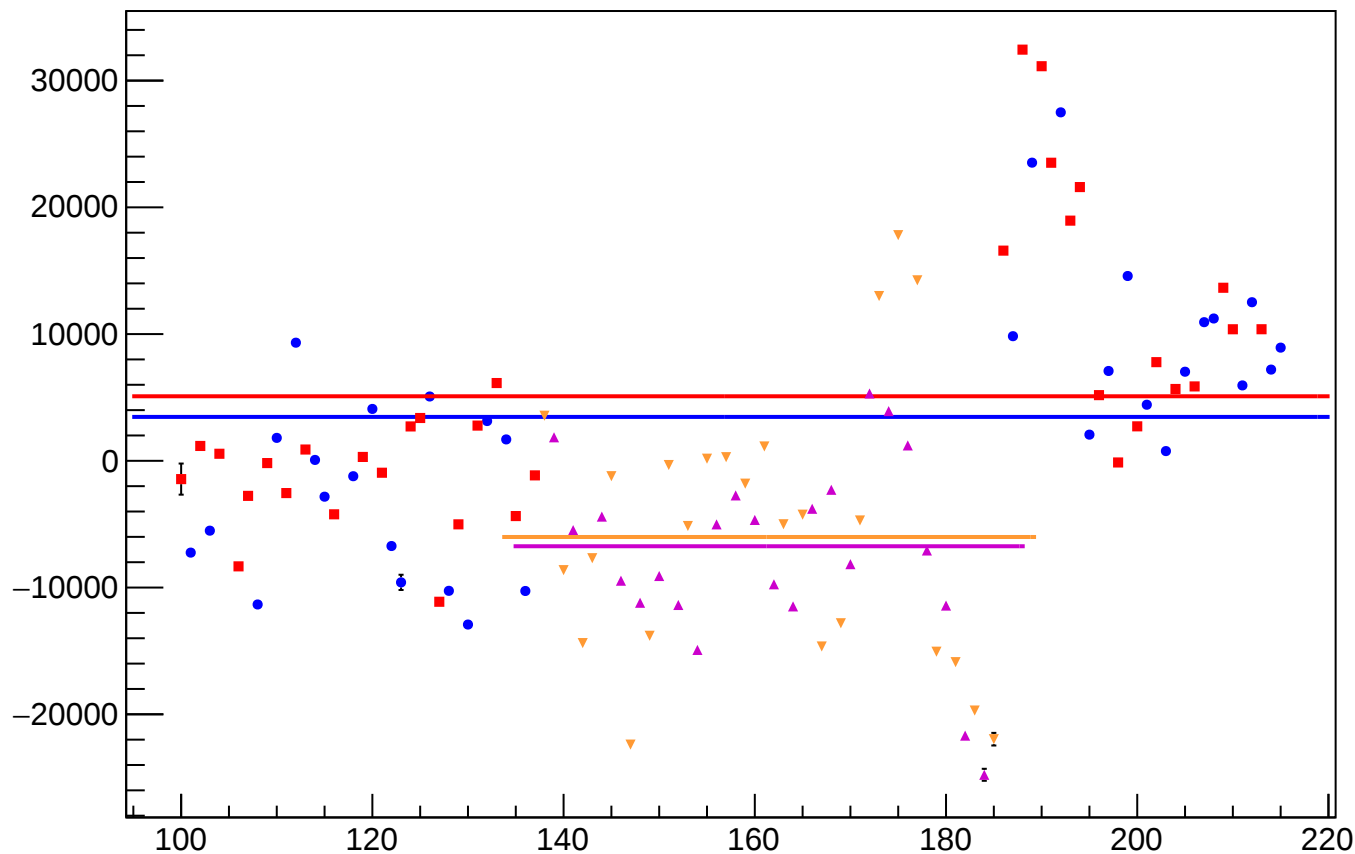
Right: 134.108 $\pm$ 0.017 χ^2/NDF : 2526107.9/65

In: 141.588 $\pm$ 0.018 χ^2/NDF : 3806128.1/54

Out: 139.197 $\pm$ 0.017 χ^2/NDF : 3929191.6/58

All: 140.356 $\pm$ 0.012 χ^2/NDF : 7744771.0/113

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3464.844 ± 33.720 χ^2/NDF : 85119.5/31

Left Out: -6009.913 ± 35.082 χ^2/NDF : 67852.2/24

Right Out: 5092.440 ± 32.820 χ^2/NDF : 99776.9/33

Left In: -6740.666 ± 36.379 χ^2/NDF : 22071.8/22

Left: -6362.031 ± 25.253 χ^2/NDF : 90133.1/47

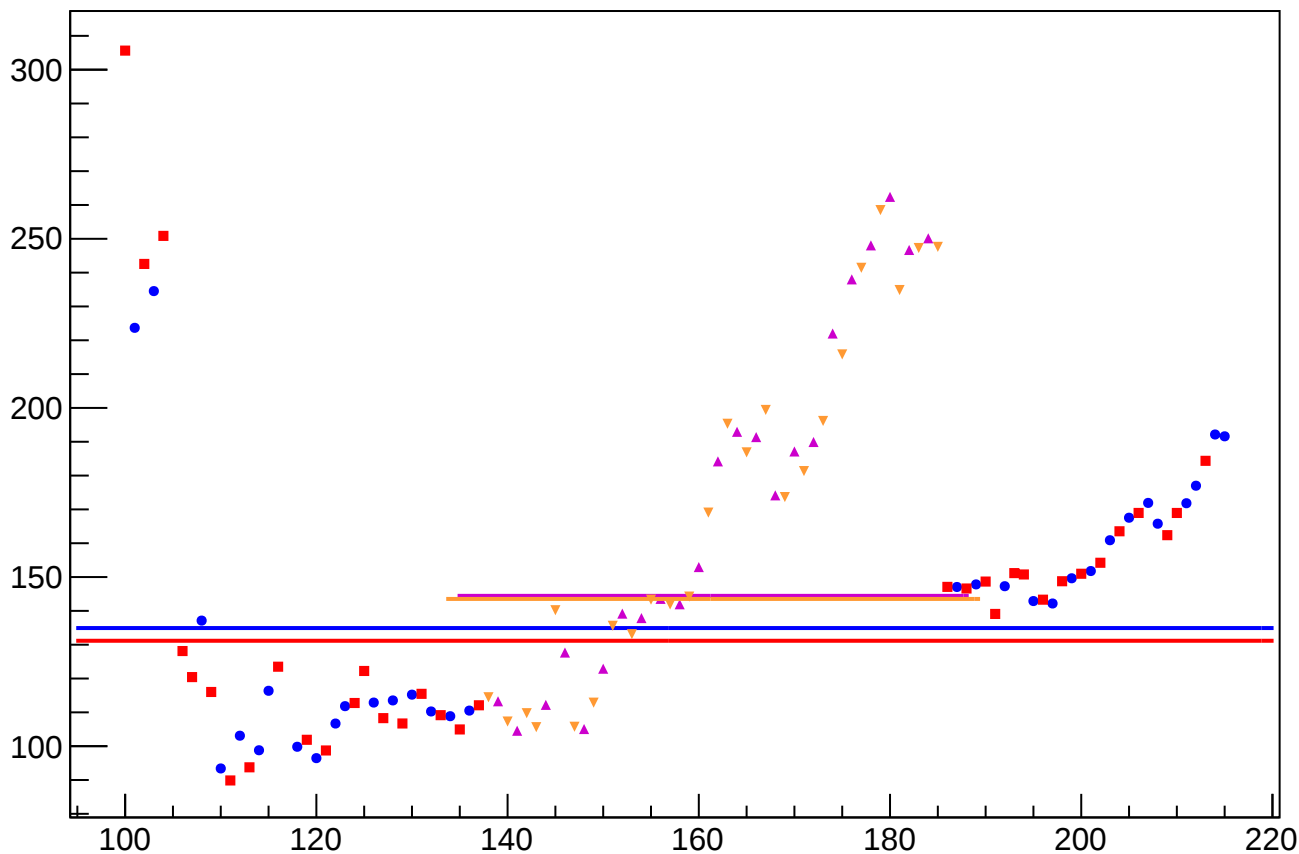
Right: 4300.665 ± 23.519 χ^2/NDF : 186092.8/65

In: -1251.305 ± 24.730 χ^2/NDF : 149521.0/54

Out: -89.163 ± 23.967 χ^2/NDF : 221038.1/58

All: -652.019 ± 17.211 χ^2/NDF : 371697.9/111

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 134.922 $\pm$ 0.024 χ^2 /NDF: 1824248.1/31

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 131.166 $\pm$ 0.023 χ^2 /NDF: 1731252.3/33

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

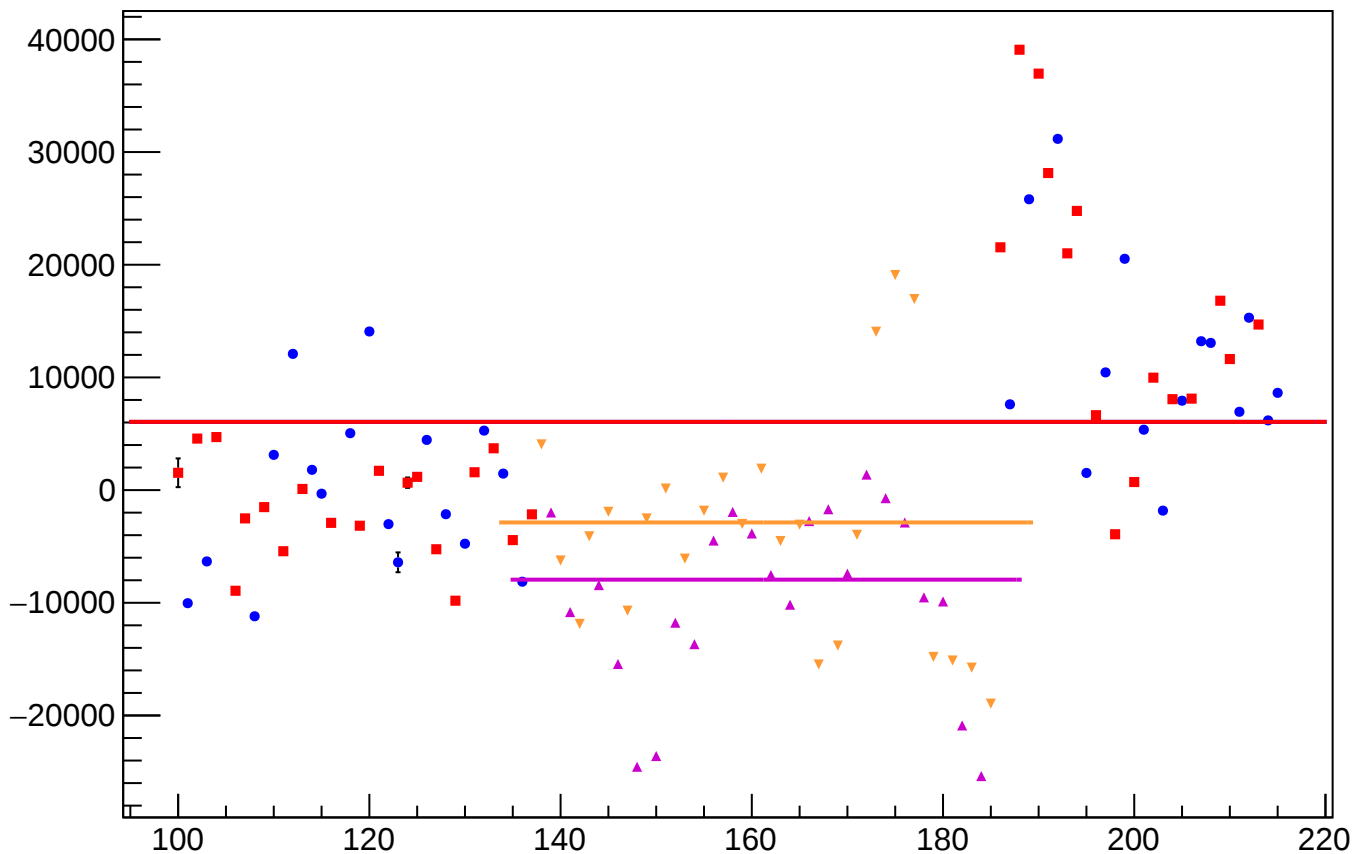
Right: 132.993 $\pm$ 0.017 χ^2 /NDF: 3568249.2/65

In: 139.320 $\pm$ 0.017 χ^2 /NDF: 4484800.4/54

Out: 136.936 $\pm$ 0.017 χ^2 /NDF: 4568541.7/58

All: 138.091 $\pm$ 0.012 χ^2 /NDF: 9062926.1/113

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 6054.214+/-40.608 χ^2/NDF : 63575.0/31

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 6056.897+/-39.629 χ^2/NDF : 99863.5/33

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

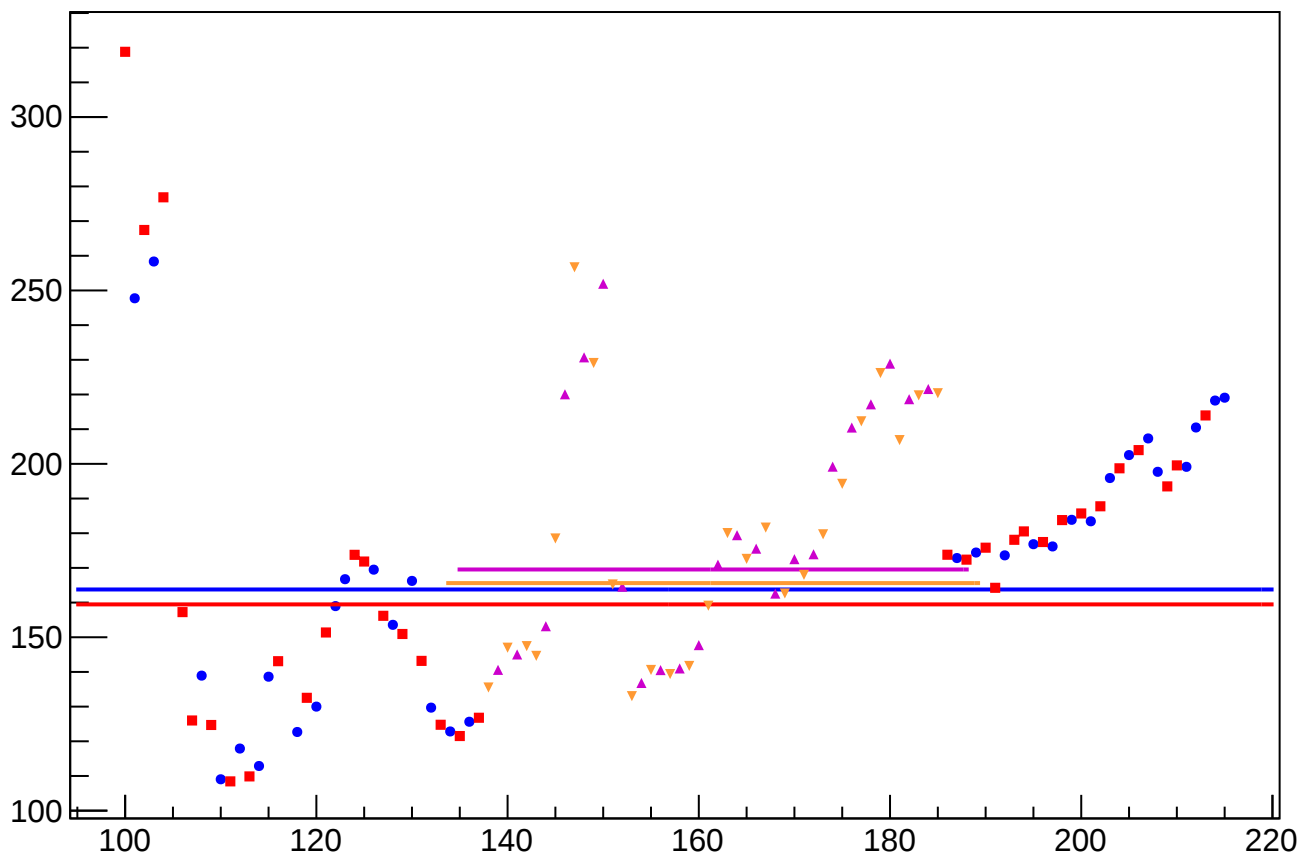
Right: 6055.588+/-28.362 χ^2/NDF : 163438.5/65

In: -756.366+/-29.101 χ^2/NDF : 145277.7/54

Out: 1576.606+/-27.970 χ^2/NDF : 171751.9/58

All: 456.342+/-20.166 χ^2/NDF : 320370.3/113

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 163.776+/-0.029 χ^2/NDF : 1649199.4/31

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 159.475+/-0.028 χ^2/NDF : 1603636.1/33

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

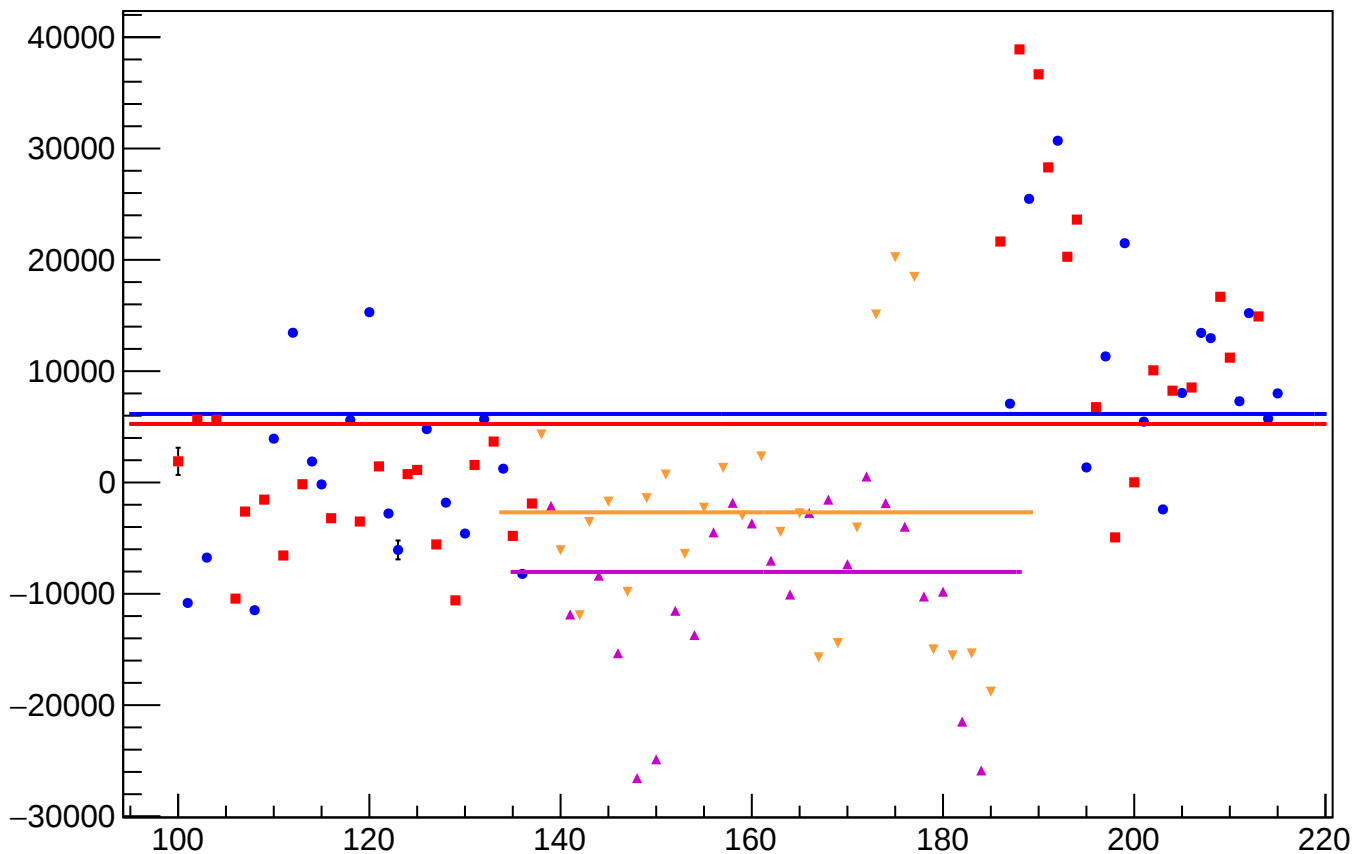
Right: 161.573+/-0.020 χ^2/NDF : 3264329.7/65

In: 166.581+/-0.021 χ^2/NDF :2828051.6/54

Out: 162.557+/-0.020 χ^2/NDF :2772522.0/58

All: 164.489+/-0.014 χ^2/NDF : 5620448.1/113

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6156.489+/-34.434 χ^2/NDF : 88986.9/31

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 5257.217+/-33.338 χ^2/NDF : 139706.5/33

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

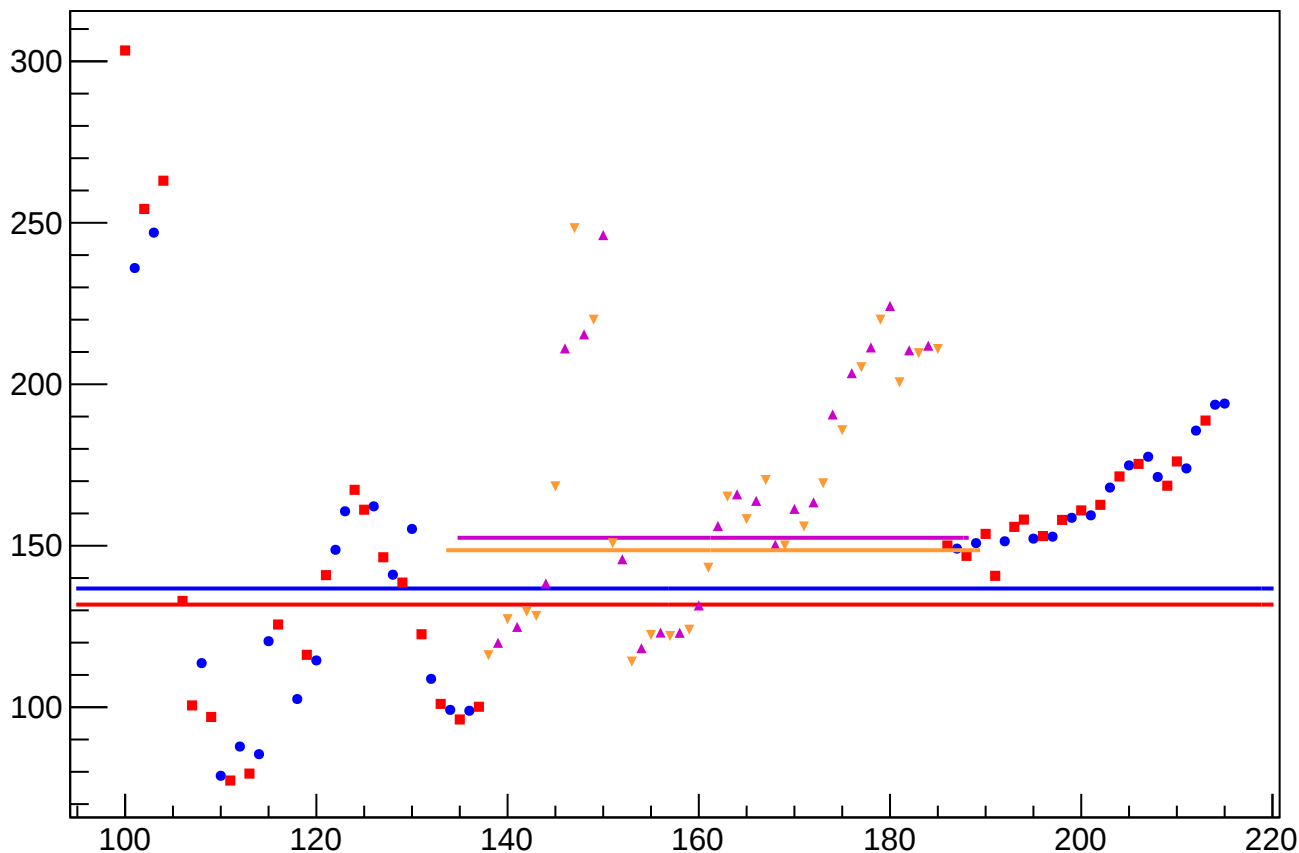
Right: 5692.309+/-23.952 χ^2/NDF : 229045.5/65

In: -257.197+/-25.494 χ^2/NDF : 195021.0/54

Out: 1566.862+/-24.386 χ^2/NDF : 222881.5/58

All: 695.315+/-17.622 χ^2/NDF : 420575.8/113

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 136.761 $\pm$ 0.024 χ^2/NDF : 2490485.6/31

Left Out: 148.611 $\pm$ 0.025 χ^2/NDF :1685424.1/24

Right Out: 131.780 $\pm$ 0.024 χ^2/NDF : 2552244.7/33

Left In: 152.463 $\pm$ 0.027 χ^2/NDF :1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2/NDF : 3387867.0/47

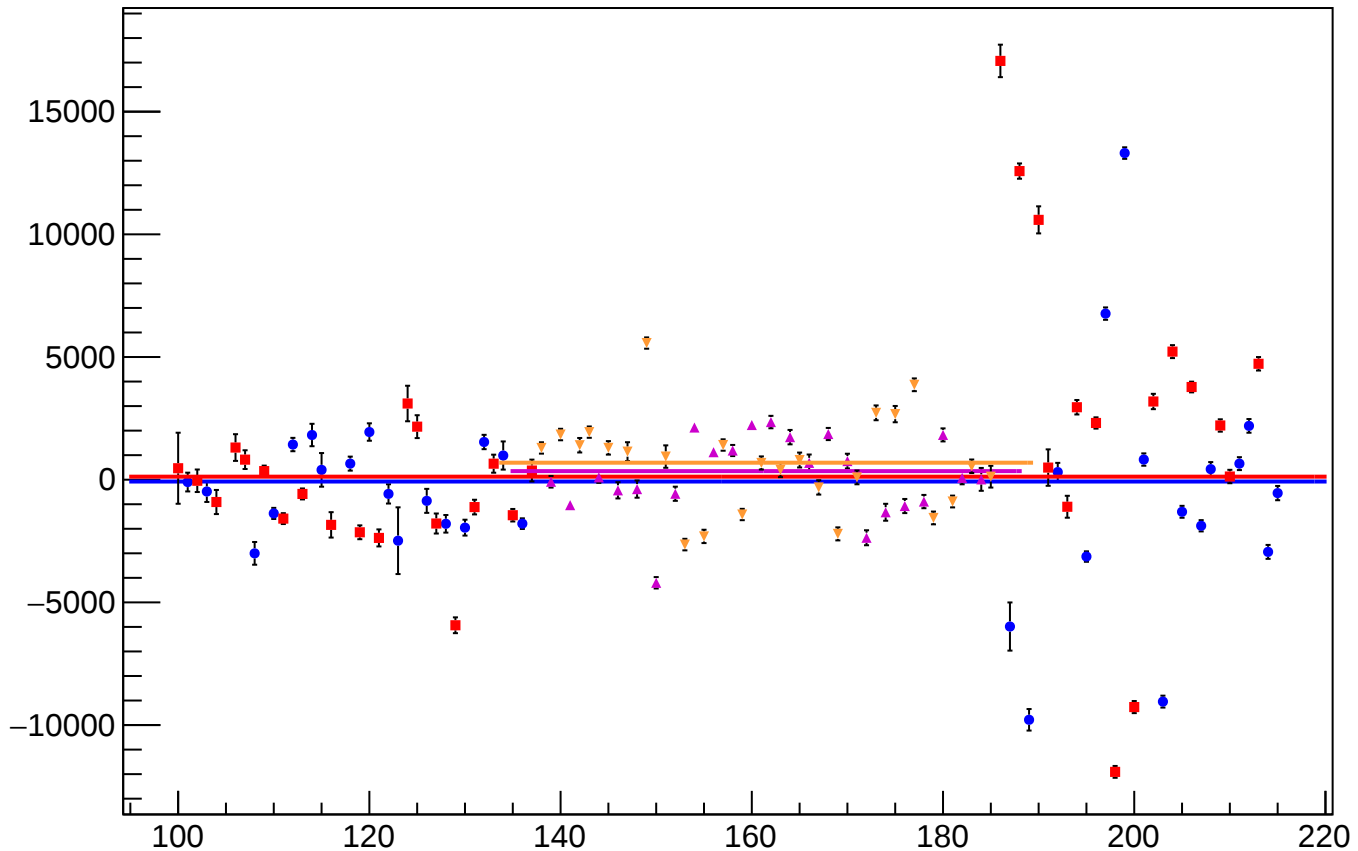
Right: 134.190 $\pm$ 0.017 χ^2/NDF : 5064328.8/65

In: 143.856 $\pm$ 0.018 χ^2/NDF :4369945.4/54

Out: 139.605 $\pm$ 0.017 χ^2/NDF :4474674.7/58

All: 141.636 $\pm$ 0.012 χ^2/NDF : 8873661.4/113

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -74.338 ± 54.000 χ^2/NDF : 6666.2/31

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: 123.535 ± 54.199 χ^2/NDF : 8508.3/33

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

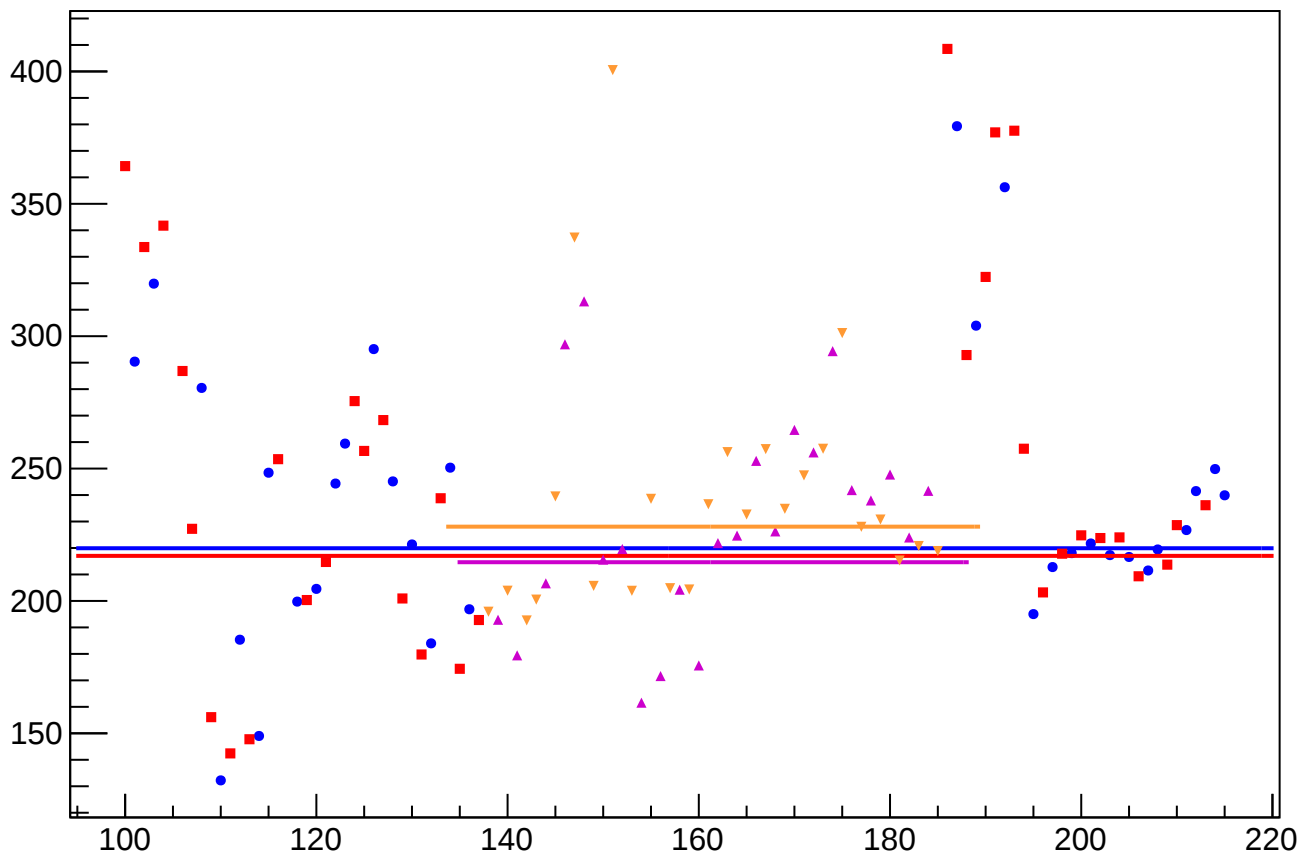
Right: 24.235 ± 38.254 χ^2/NDF : 15181.1/65

In: 141.230 ± 37.859 χ^2/NDF : 7678.5/54

Out: 407.717 ± 38.361 χ^2/NDF : 9985.4/58

All: 272.719 ± 26.946 χ^2/NDF : 17688.3/113

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.908 ± 0.038 $\chi^2/\text{NDF}: 1202460.1/31$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 217.026 ± 0.038 $\chi^2/\text{NDF}: 1837116.6/33$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

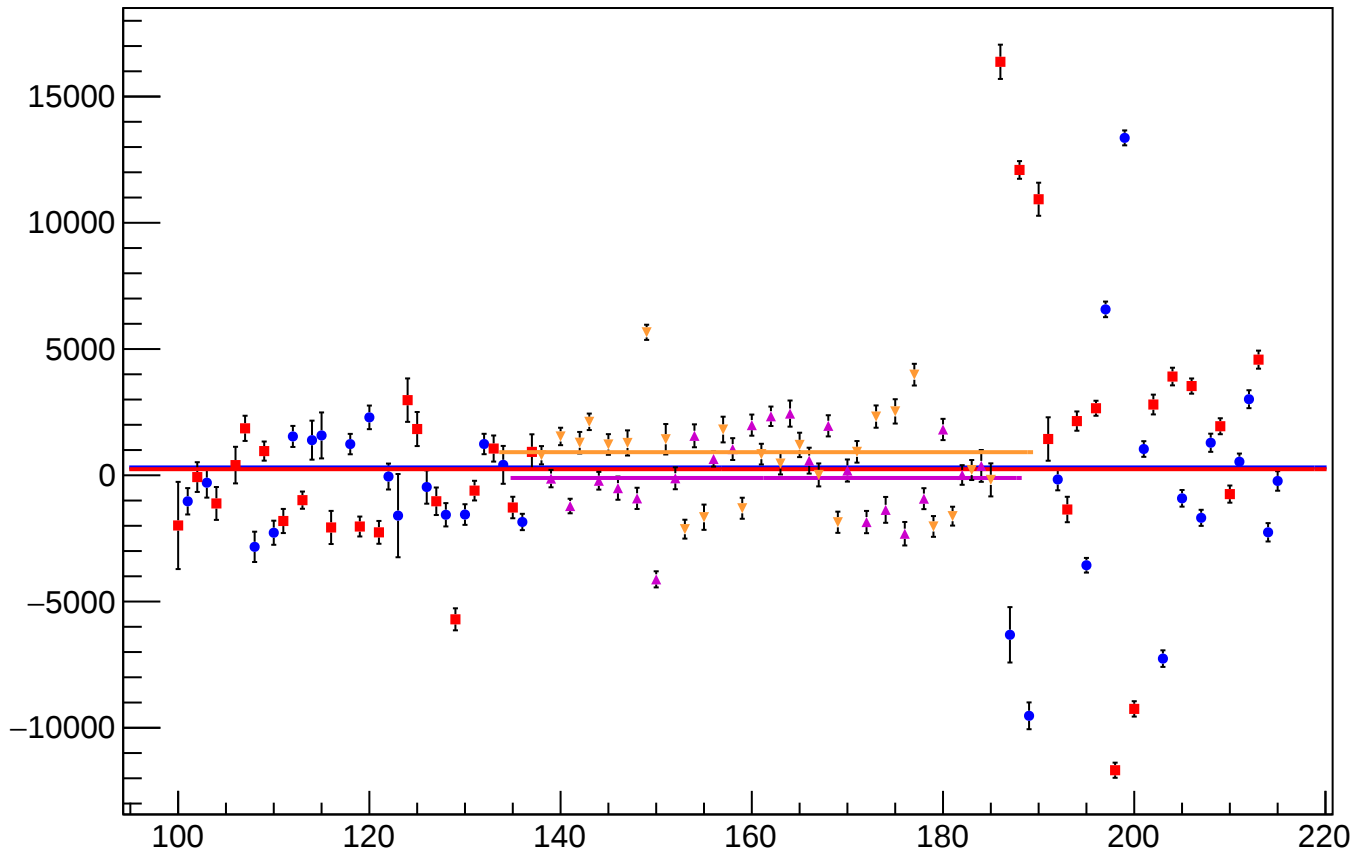
Right: 218.472 ± 0.027 $\chi^2/\text{NDF}: 3042413.7/65$

In: 217.223 ± 0.027 $\chi^2/\text{NDF}: 2237868.0/54$

Out: 222.533 ± 0.027 $\chi^2/\text{NDF}: 2704832.0/58$

All: 219.843 ± 0.019 $\chi^2/\text{NDF}: 4962114.1/113$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 311.339 ± 72.652 $\chi^2/\text{NDF}: 3815.3/31$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: 241.641 ± 73.442 $\chi^2/\text{NDF}: 5444.1/33$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

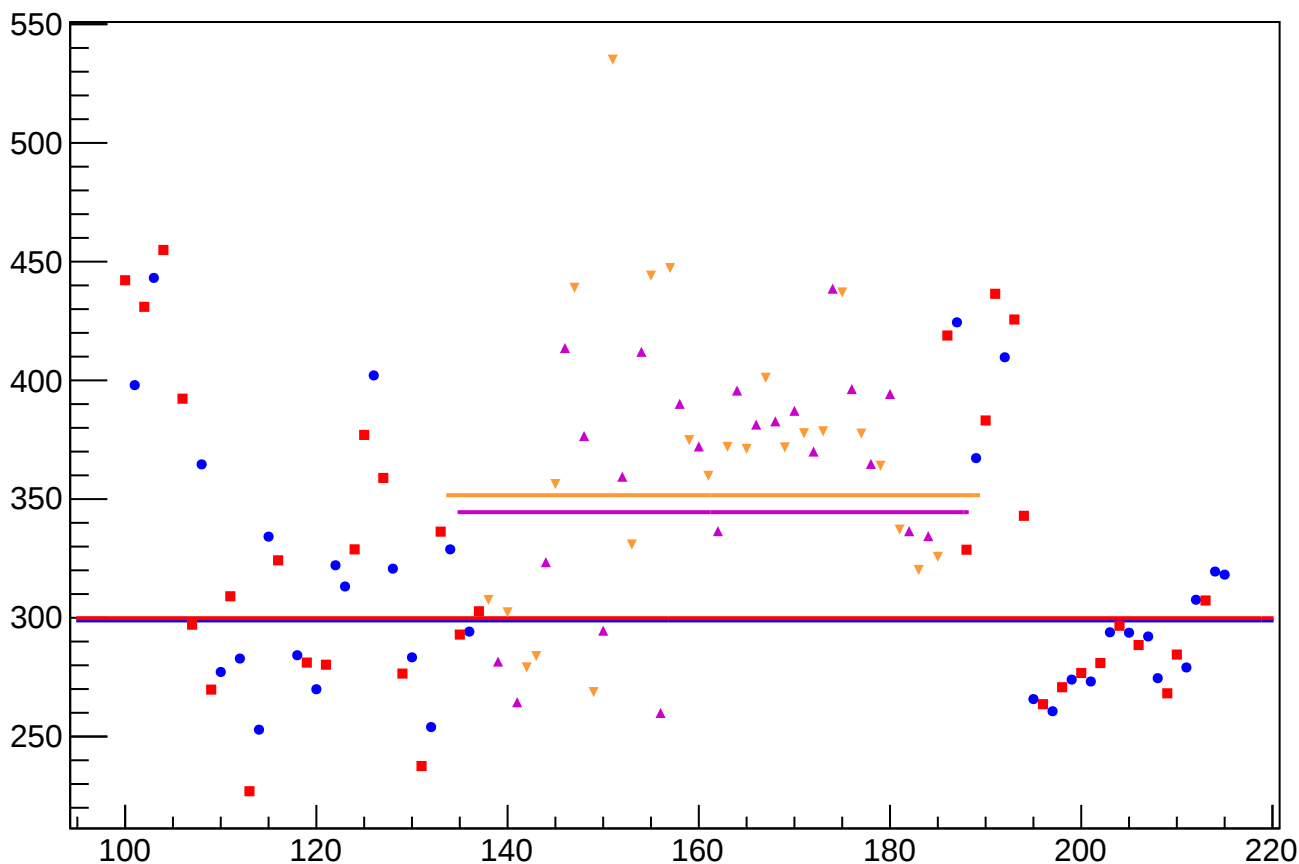
Right: 276.867 ± 51.650 $\chi^2/\text{NDF}: 9259.9/65$

In: 133.648 ± 55.060 $\chi^2/\text{NDF}: 4219.6/54$

Out: 536.171 ± 55.117 $\chi^2/\text{NDF}: 6099.2/58$

All: 334.700 ± 38.953 $\chi^2/\text{NDF}: 10345.6/113$

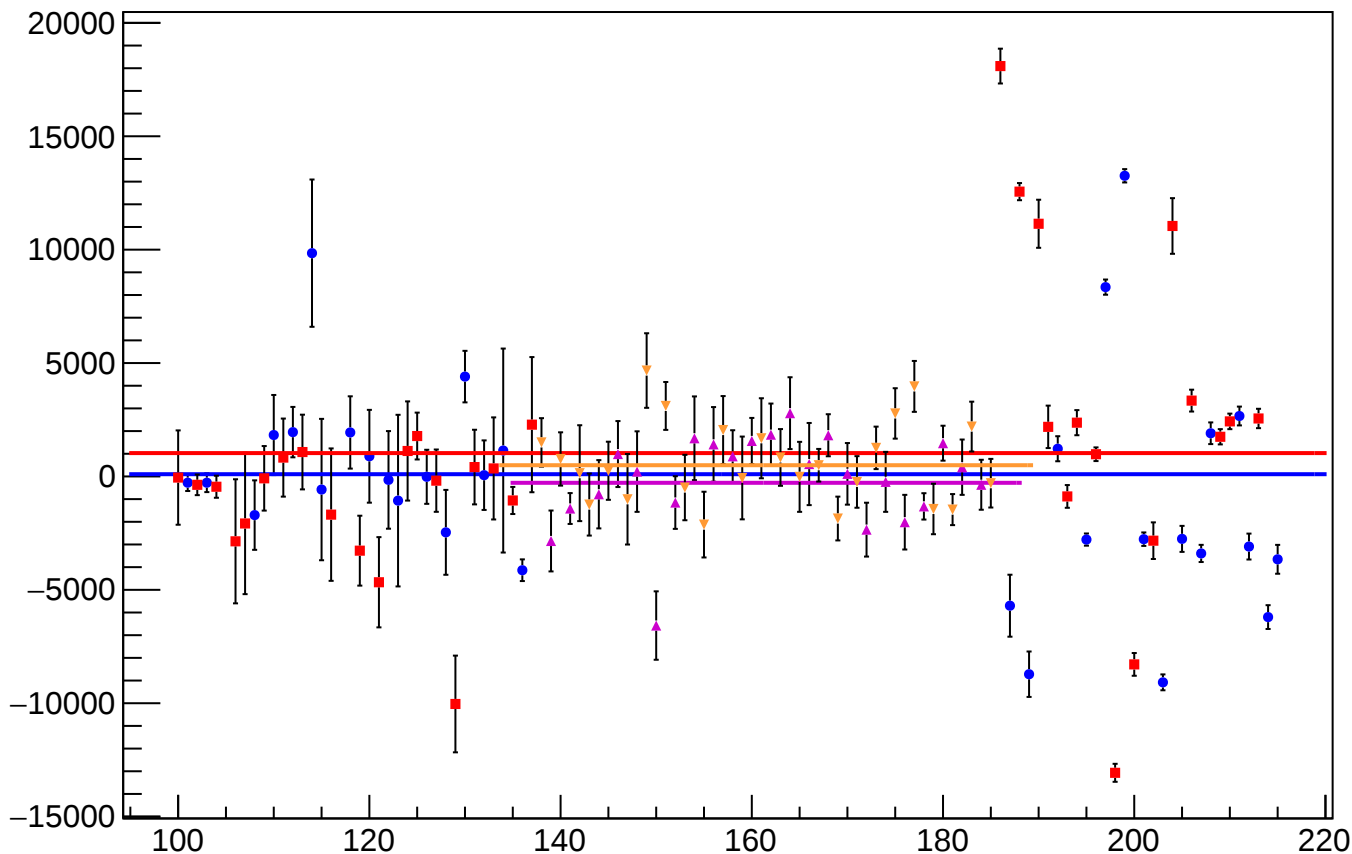
asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 298.899 ± 0.051 $\chi^2/\text{NDF}: 639150.5/31$
 Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$
 Right Out: 299.829 ± 0.052 $\chi^2/\text{NDF}: 894271.9/33$
 Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$
 Right: 299.359 ± 0.037 $\chi^2/\text{NDF}: 1533584.7/65$
 In: 318.305 ± 0.039 $\chi^2/\text{NDF}: 1743285.5/54$
 Out: 322.456 ± 0.039 $\chi^2/\text{NDF}: 2236745.9/58$
 All: 320.378 ± 0.028 $\chi^2/\text{NDF}: 3985708.8/113$

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 98.889 ± 95.078 $\chi^2/\text{NDF}: 4089.6/31$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 1029.800 ± 108.141 $\chi^2/\text{NDF}: 3373.8/33$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

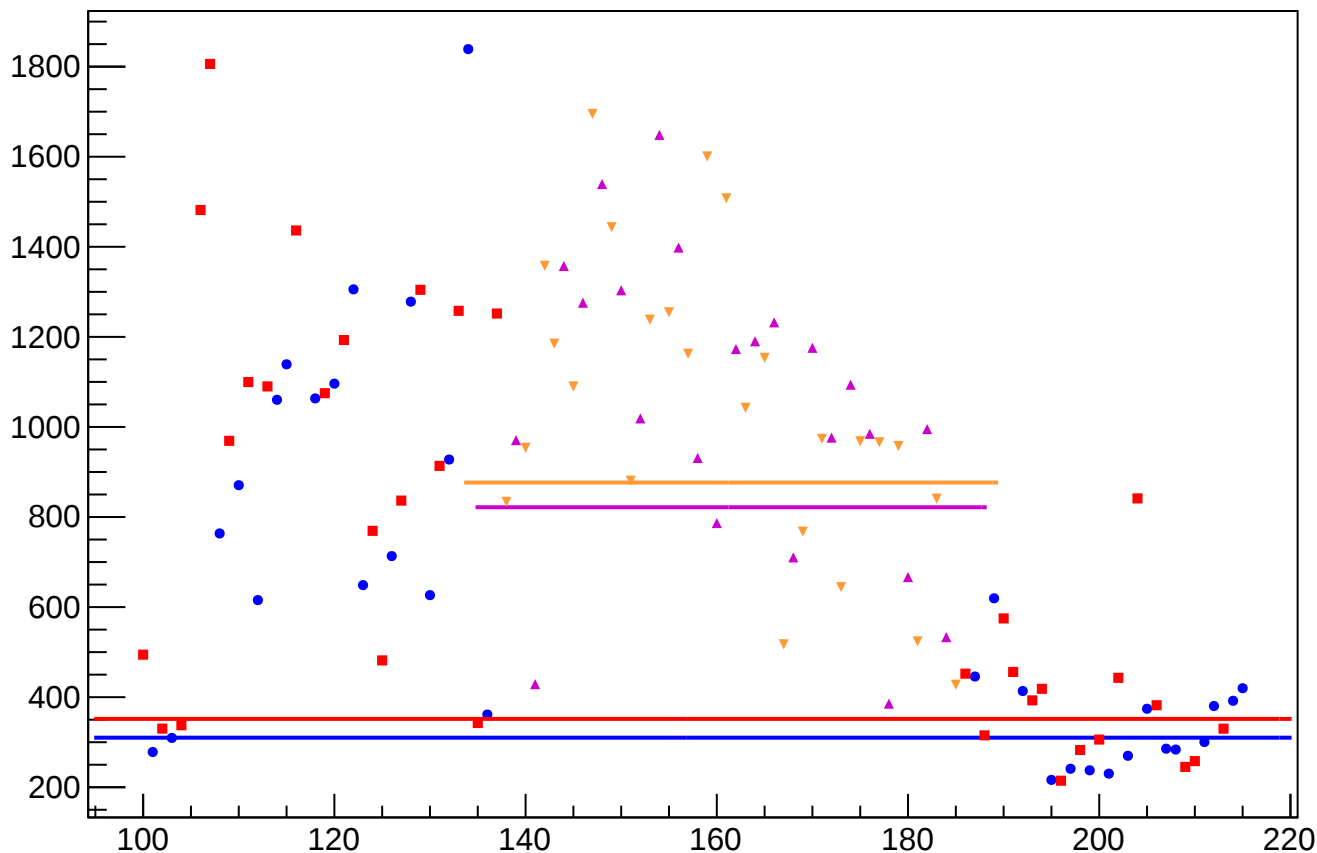
Right: 504.755 ± 71.405 $\chi^2/\text{NDF}: 7505.2/65$

In: 44.324 ± 87.980 $\chi^2/\text{NDF}: 4149.1/54$

Out: 933.707 ± 97.944 $\chi^2/\text{NDF}: 3434.5/58$

All: 441.485 ± 65.451 $\chi^2/\text{NDF}: 7629.2/113$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 310.049 $\pm$ 0.067 χ^2/NDF : 4556998.6/31

Left Out: 876.560 $\pm$ 0.163 χ^2/NDF :3434698.7/24

Right Out: 351.784 $\pm$ 0.076 χ^2/NDF : 5922820.5/33

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

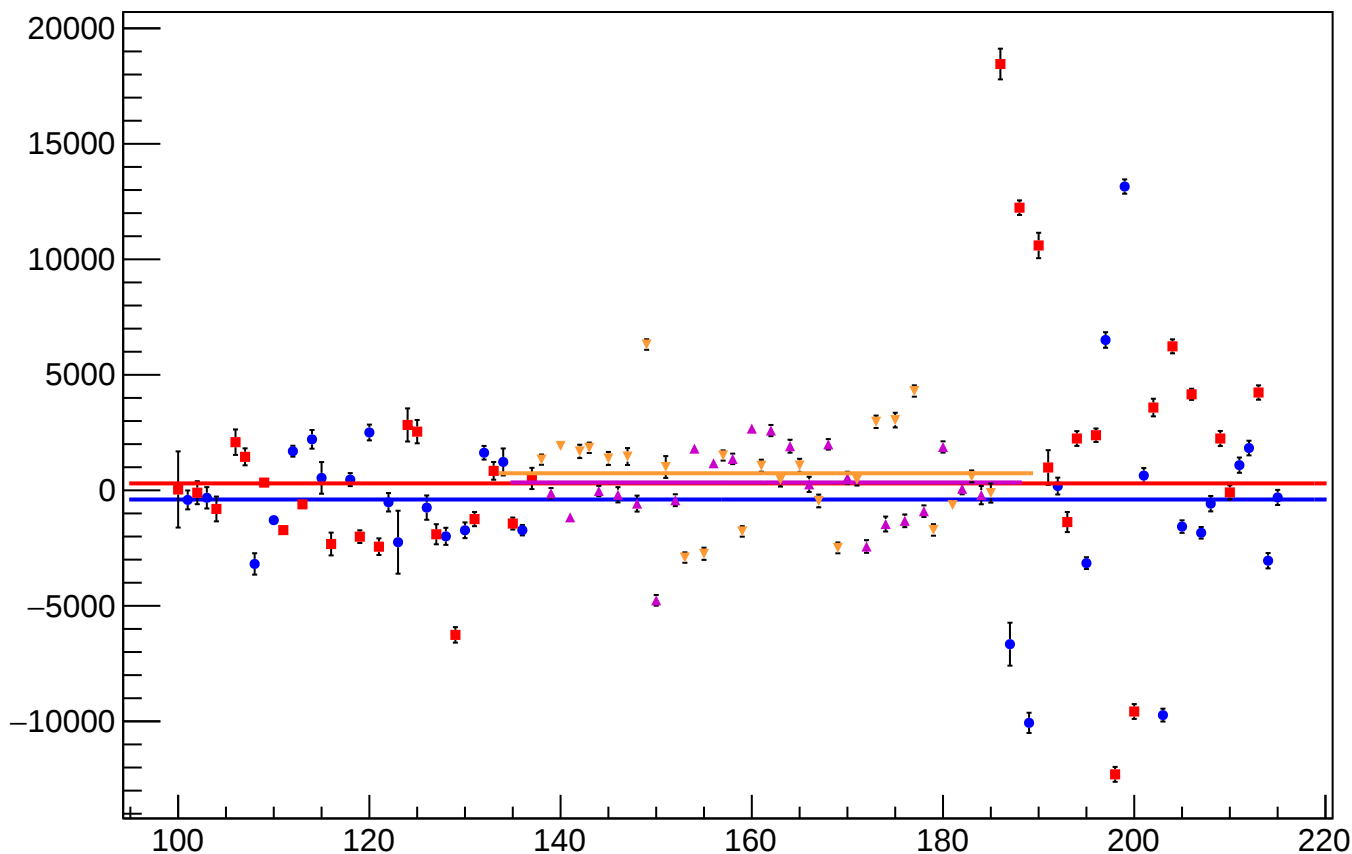
Right: 328.245 $\pm$ 0.050 χ^2/NDF : 10647824.8/65

In: 383.593 $\pm$ 0.062 χ^2/NDF :17324450.6/54

Out: 446.079 $\pm$ 0.069 χ^2/NDF :17820361.1/58

All: 411.497 $\pm$ 0.046 χ^2/NDF : 35595317.8/13

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -397.182+/-58.390 χ^2/NDF : 4678.9/31

Left Out: 738.847+/-51.649 χ^2/NDF :1935.2/24

Right Out: 299.949+/-57.189 χ^2/NDF : 6832.6/33

Left In: 342.465+/-50.044 χ^2/NDF :1254.9/22

Left: 534.403+/-35.941 χ^2/NDF : 3220.5/47

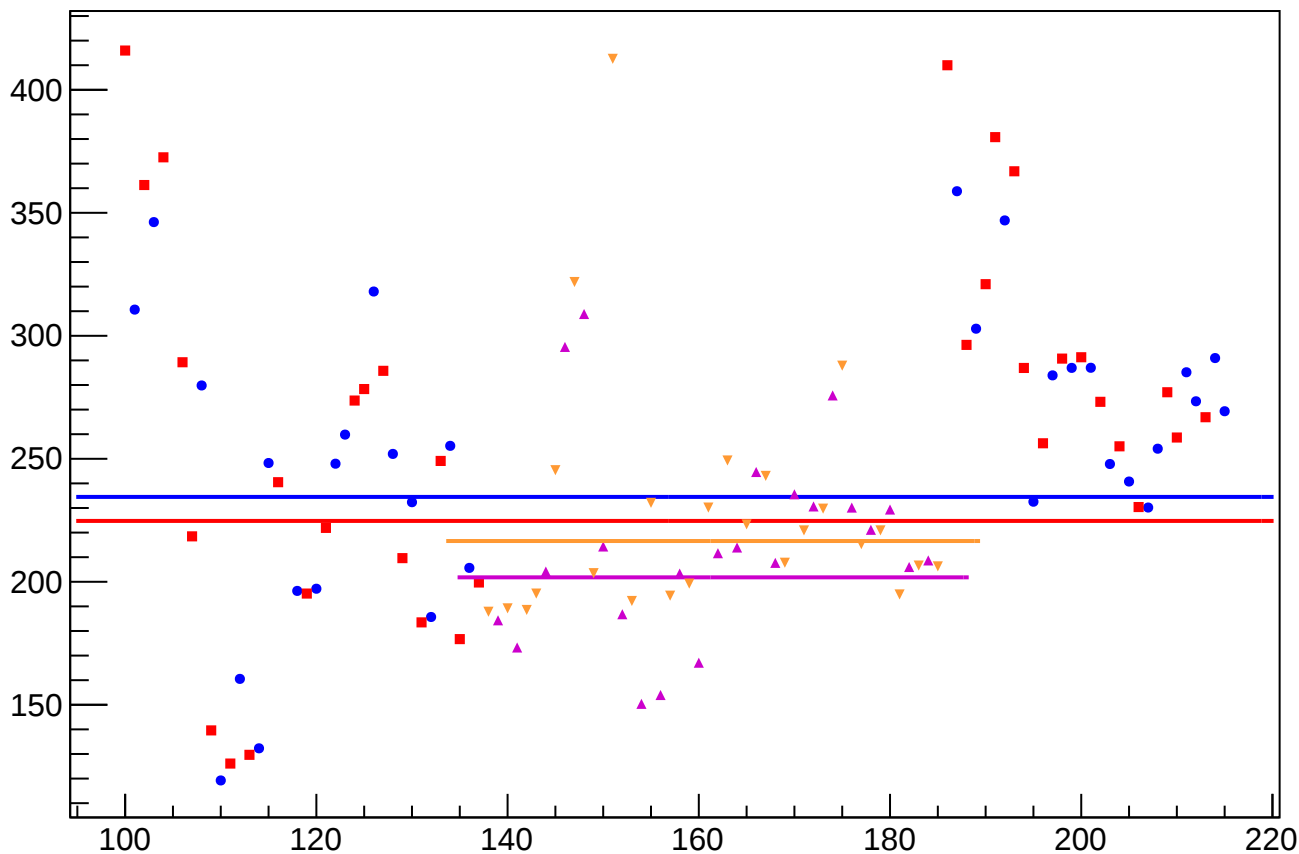
Right: -41.372+/-40.857 χ^2/NDF : 11584.3/65

In: 29.235+/-37.998 χ^2/NDF :6026.3/54

Out: 541.681+/-38.331 χ^2/NDF :8800.2/58

All: 283.224+/-26.985 χ^2/NDF : 14916.7/113

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 234.506 $\pm$ 0.041 χ^2/NDF : 1967076.6/31

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF : 886214.1/24

Right Out: 224.744 $\pm$ 0.040 χ^2/NDF : 2959645.6/33

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

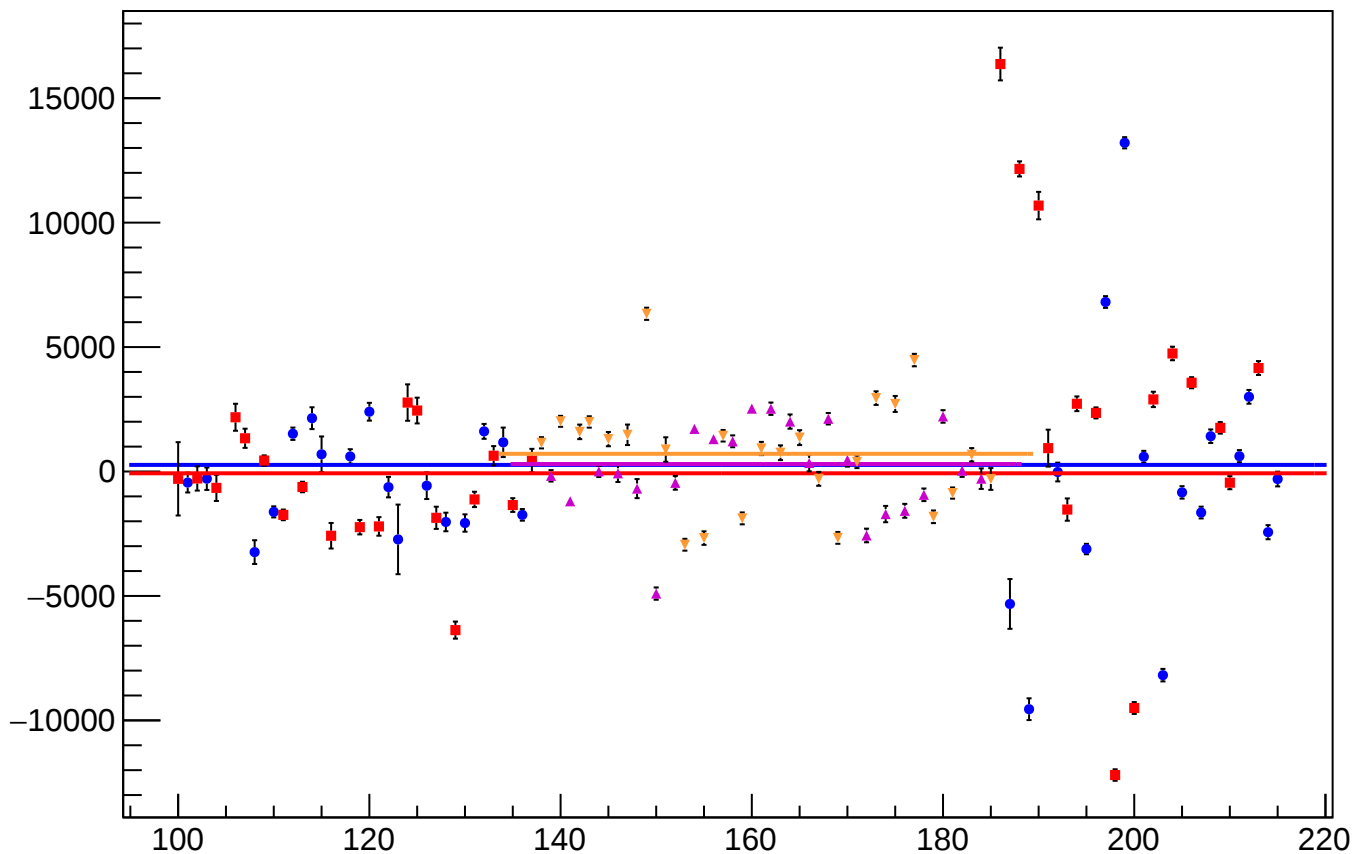
Right: 229.524 $\pm$ 0.029 χ^2/NDF : 4955252.3/65

In: 215.654 $\pm$ 0.027 χ^2/NDF : 3415958.8/54

Out: 220.244 $\pm$ 0.027 χ^2/NDF : 3868342.6/58

All: 217.929 $\pm$ 0.019 χ^2/NDF : 7298770.9/113

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 265.427+/-53.906 χ^2/NDF : 6683.3/31

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -71.631+/-53.929 χ^2/NDF : 8769.0/33

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

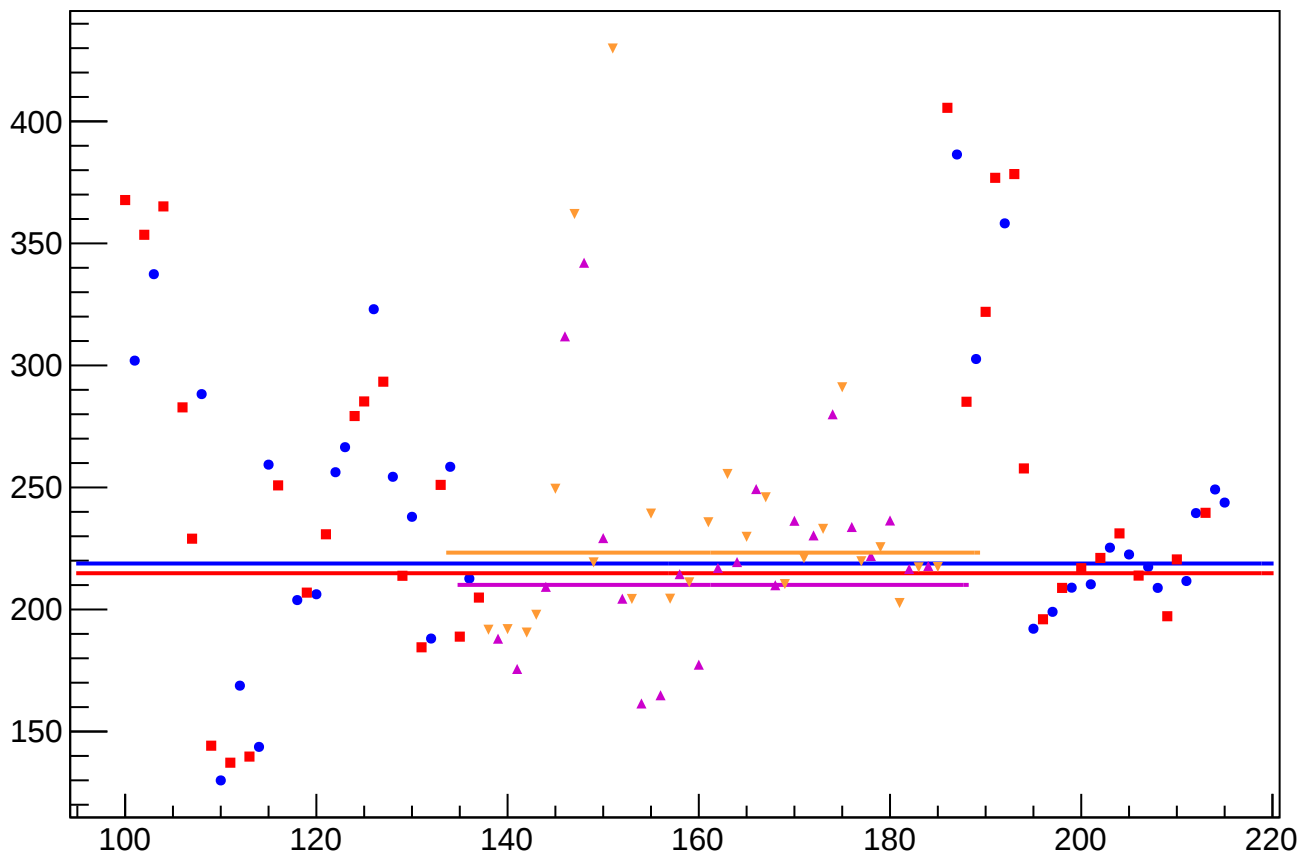
Right: 96.970+/-38.125 χ^2/NDF : 15471.8/65

In: 283.608+/-37.419 χ^2/NDF :7892.1/54

Out: 324.765+/-37.889 χ^2/NDF :10711.0/58

All: 303.930+/-26.624 χ^2/NDF : 18603.7/113

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 218.838 $\pm$ 0.038 χ^2/NDF : 1401443.4/31

Left Out: 223.296 $\pm$ 0.038 χ^2/NDF :922768.4/24

Right Out: 214.858 $\pm$ 0.038 χ^2/NDF : 2121744.5/33

Left In: 210.080 $\pm$ 0.037 χ^2/NDF :1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2/NDF : 2001132.1/47

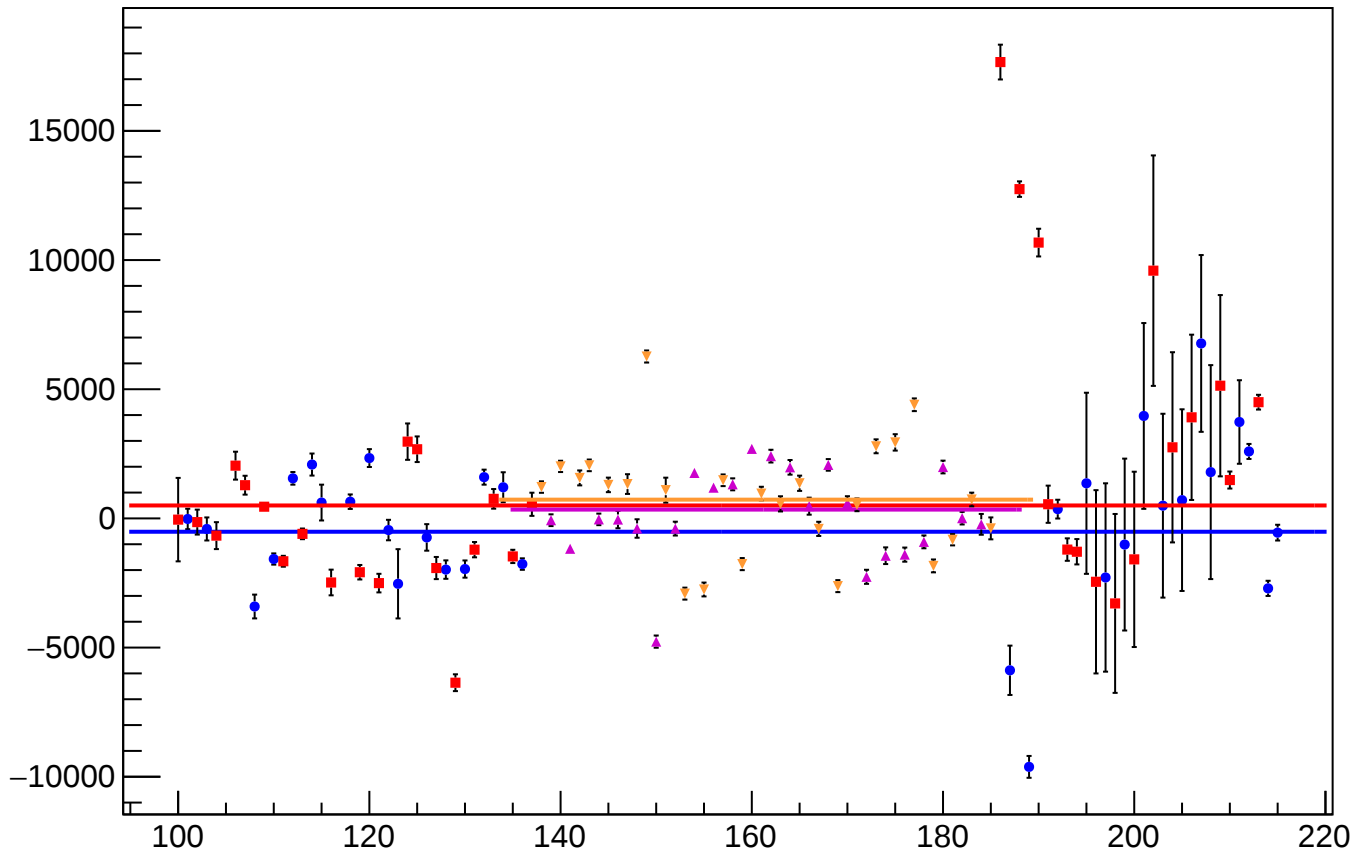
Right: 216.849 $\pm$ 0.027 χ^2/NDF : 3528638.2/65

In: 214.300 $\pm$ 0.026 χ^2/NDF :2444073.9/54

Out: 219.131 $\pm$ 0.027 χ^2/NDF :3069310.4/58

All: 216.685 $\pm$ 0.019 χ^2/NDF : 5529842.1/113

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -516.392+/-71.685 χ^2/NDF : 1076.7/31

Left Out: 725.866+/-52.158 χ^2/NDF : 1912.7/24

Right Out: 500.897+/-66.560 χ^2/NDF : 3862.5/33

Left In: 340.502+/-50.802 χ^2/NDF : 1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

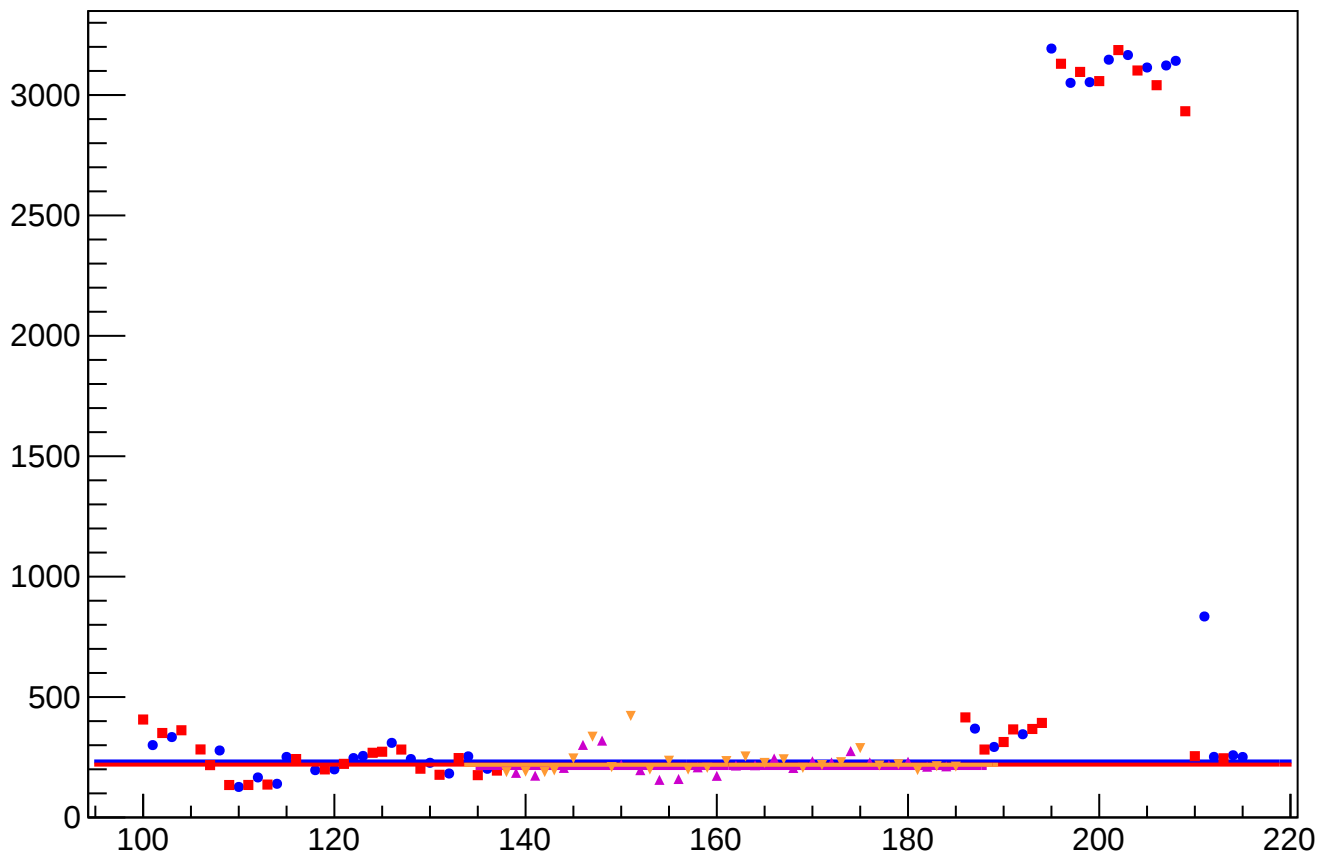
Right: 29.914+/-48.777 χ^2/NDF : 5047.4/65

In: 54.021+/-41.449 χ^2/NDF : 2373.7/54

Out: 640.277+/-41.055 χ^2/NDF : 5782.3/58

All: 349.952+/-29.168 χ^2/NDF : 8257.0/113

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 232.520 $\pm$ 0.051 χ^2 /NDF: 12172663.0/31

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF: 896914.5/24

Right Out: 219.455 $\pm$ 0.047 χ^2 /NDF: 11495508.0/33

Left In: 205.249 $\pm$ 0.036 χ^2 /NDF: 997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2 /NDF: 1963037.5/47

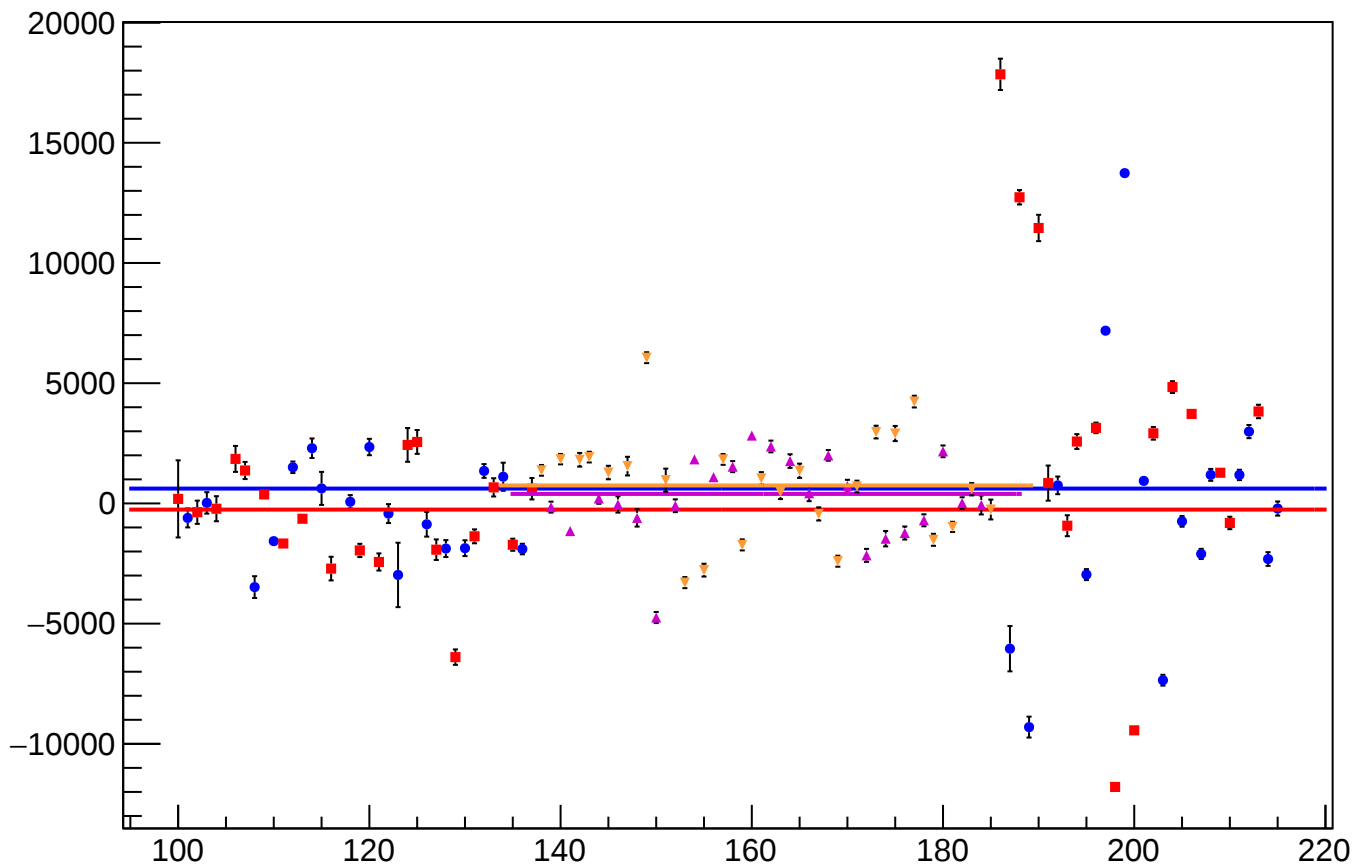
Right: 225.504 $\pm$ 0.034 χ^2 /NDF: 23703844.3/65

In: 214.366 $\pm$ 0.029 χ^2 /NDF: 13362504.2/54

Out: 219.030 $\pm$ 0.029 χ^2 /NDF: 12392554.4/58

All: 216.720 $\pm$ 0.021 χ^2 /NDF: 25767838.3/11

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 616.988 ± 50.388 $\chi^2/\text{NDF}: 8648.1/31$

Left Out: 746.405 ± 51.592 $\chi^2/\text{NDF}: 1942.1/24$

Right Out: -256.584 ± 50.480 $\chi^2/\text{NDF}: 10591.2/33$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

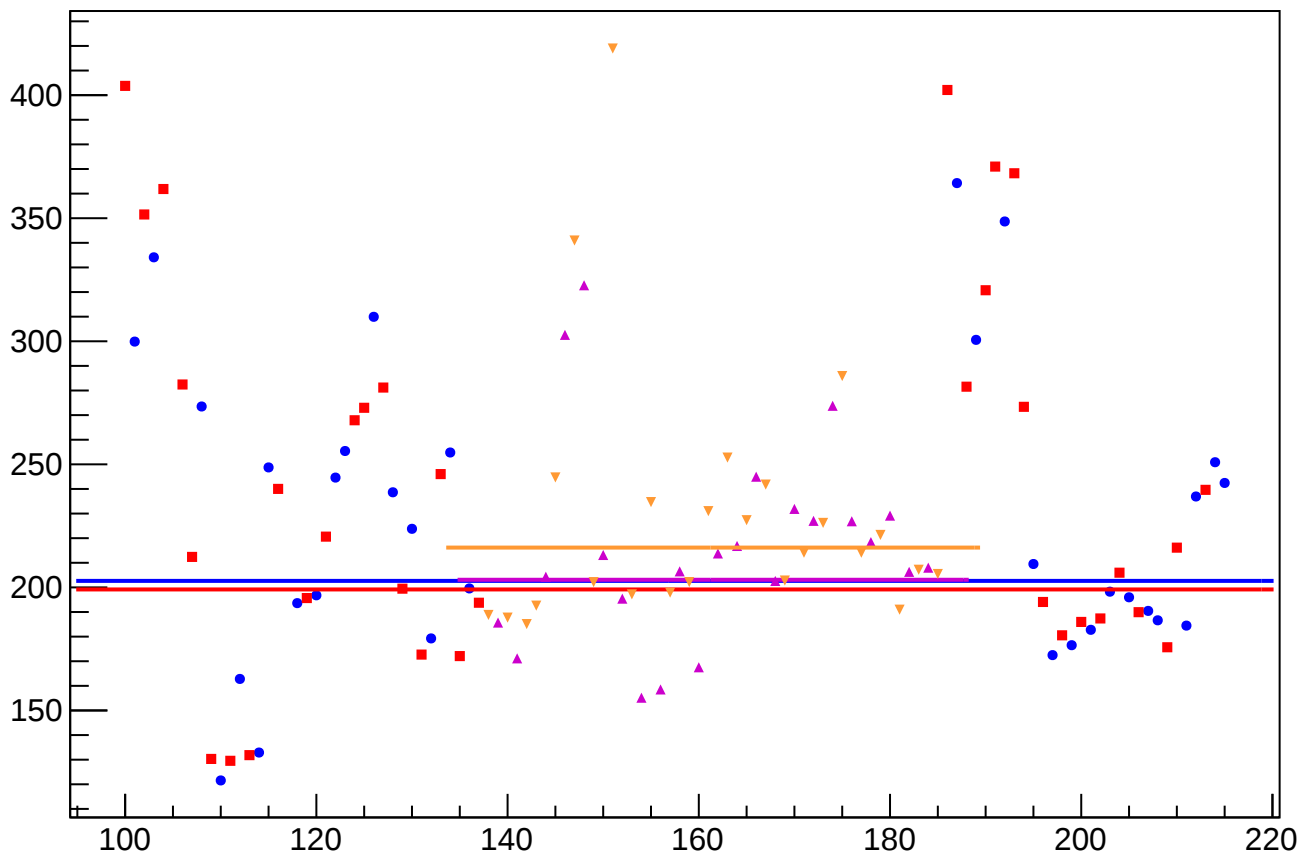
Right: 180.995 ± 35.662 $\chi^2/\text{NDF}: 19389.3/65$

In: 505.513 ± 35.603 $\chi^2/\text{NDF}: 9894.3/54$

Out: 233.988 ± 36.081 $\chi^2/\text{NDF}: 12726.4/58$

All: 371.564 ± 25.342 $\chi^2/\text{NDF}: 22649.4/113$

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 202.647 $\pm$ 0.036 χ^2 /NDF: 1676127.2/31

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 199.168 $\pm$ 0.036 χ^2 /NDF: 2517916.1/33

Left In: 203.101 $\pm$ 0.036 χ^2 /NDF: 1038013.0/22

Left: 209.475 $\pm$ 0.025 χ^2 /NDF: 2049926.5/47

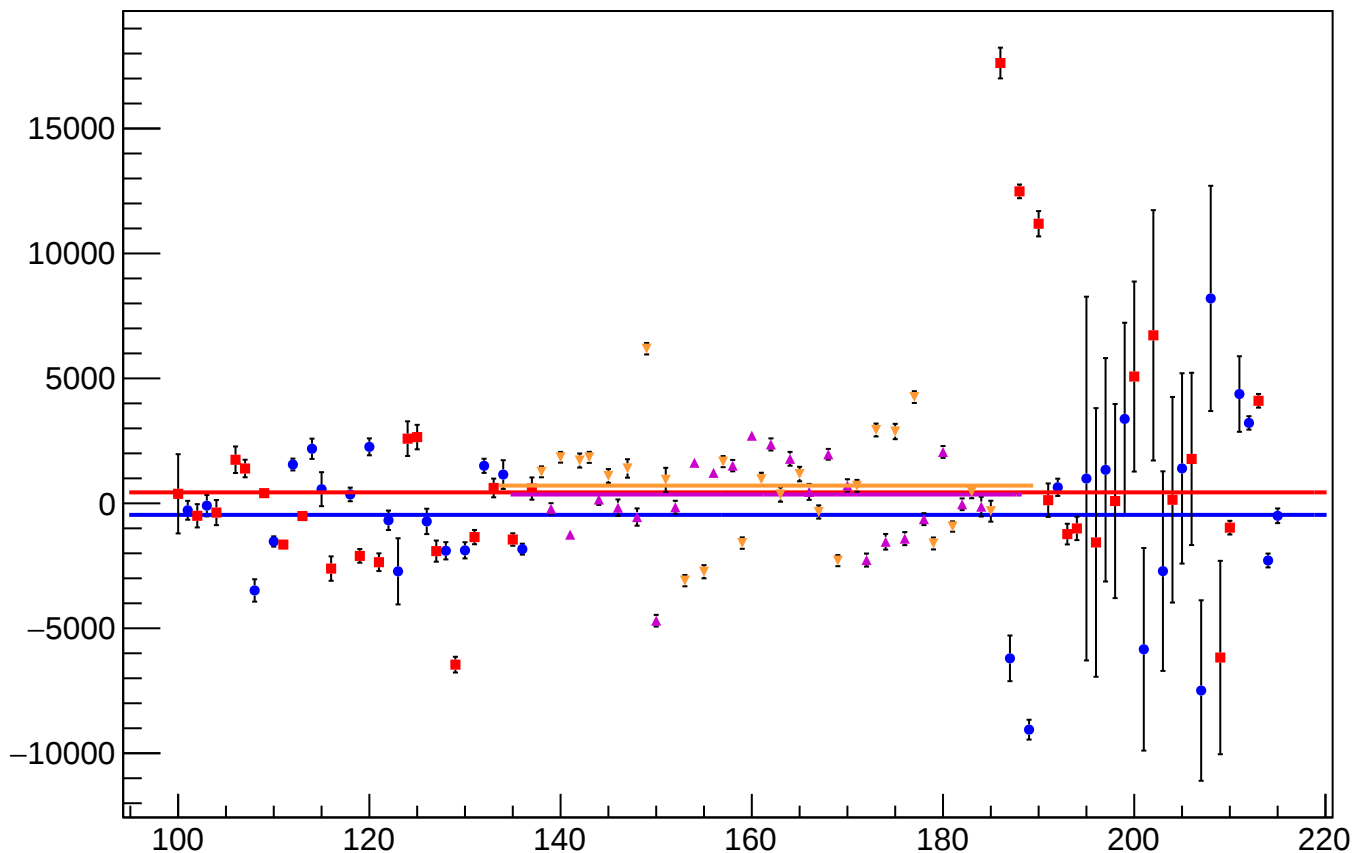
Right: 200.911 $\pm$ 0.025 χ^2 /NDF: 4198800.4/65

In: 202.874 $\pm$ 0.025 χ^2 /NDF: 2714221.5/54

Out: 207.488 $\pm$ 0.026 χ^2 /NDF: 3575035.0/58

All: 205.150 $\pm$ 0.018 χ^2 /NDF: 6305825.4/113

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -461.179 ± 68.994 $\chi^2/\text{NDF}: 1171.2/31$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 439.254 ± 63.402 $\chi^2/\text{NDF}: 4377.7/33$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

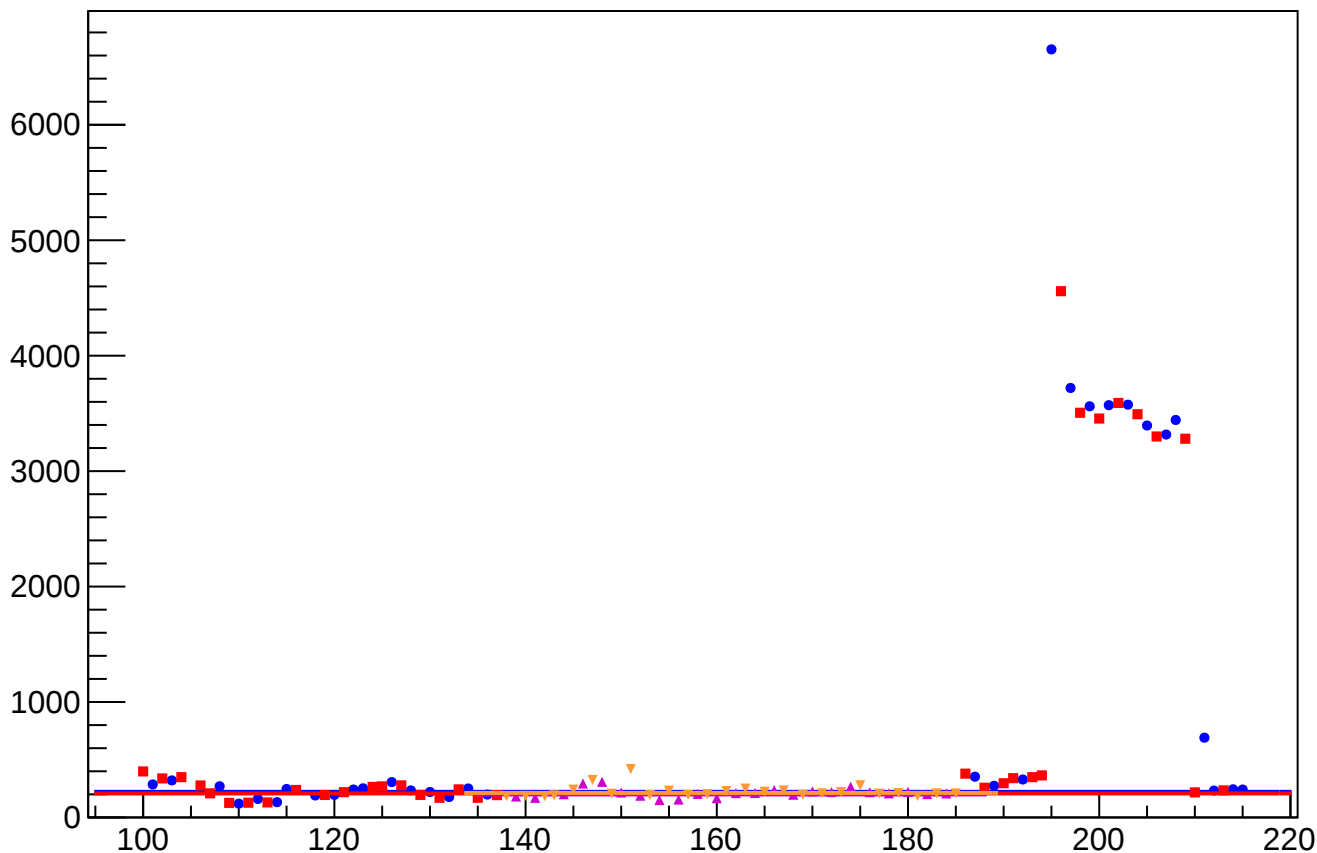
Right: 27.003 ± 46.684 $\chi^2/\text{NDF}: 5641.3/65$

In: 77.308 ± 40.121 $\chi^2/\text{NDF}: 2496.3/54$

Out: 604.414 ± 39.621 $\chi^2/\text{NDF}: 6321.2/58$

All: 344.166 ± 28.191 $\chi^2/\text{NDF}: 8904.8/113$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 221.807+/-0.049 χ^2/NDF : 12531193.0/31

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 207.918+/-0.045 χ^2/NDF : 11730153.1/33

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

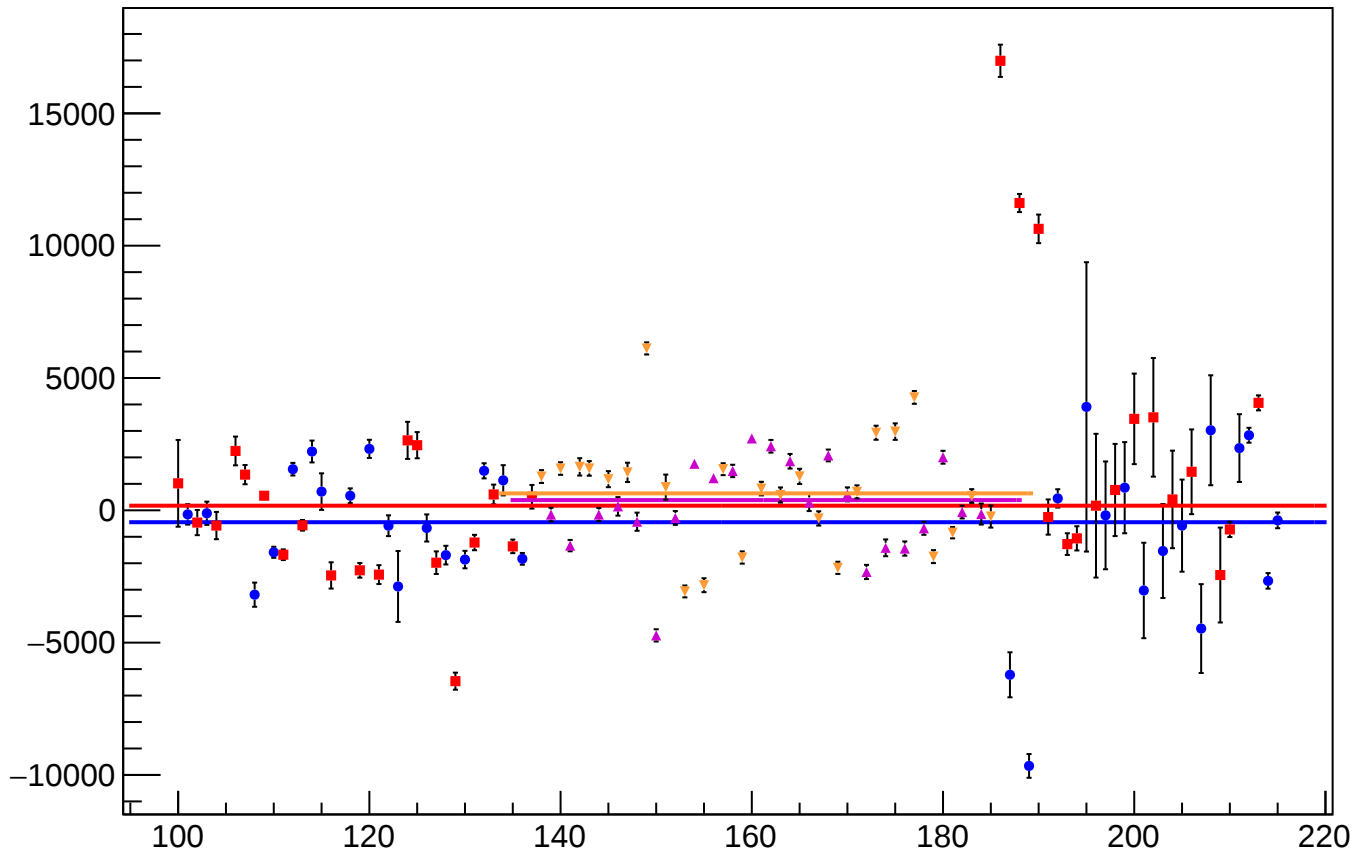
Right: 214.277+/-0.033 χ^2/NDF : 24305290.8/65

In: 206.806+/-0.028 χ^2/NDF : 13659974.4/54

Out: 210.844+/-0.028 χ^2/NDF : 12653368.0/58

All: 208.850+/-0.020 χ^2/NDF : 26323596.0/11

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -449.437 $\pm$ 70.159 χ^2 /NDF: 1070.5/31

Left Out: 639.995 $\pm$ 52.708 χ^2 /NDF:1859.2/24

Right Out: 174.953 $\pm$ 65.119 χ^2 /NDF: 3309.4/33

Left In: 386.248 $\pm$ 50.994 χ^2 /NDF:1238.0/22

Left: 508.926 $\pm$ 36.649 χ^2 /NDF: 3109.2/47

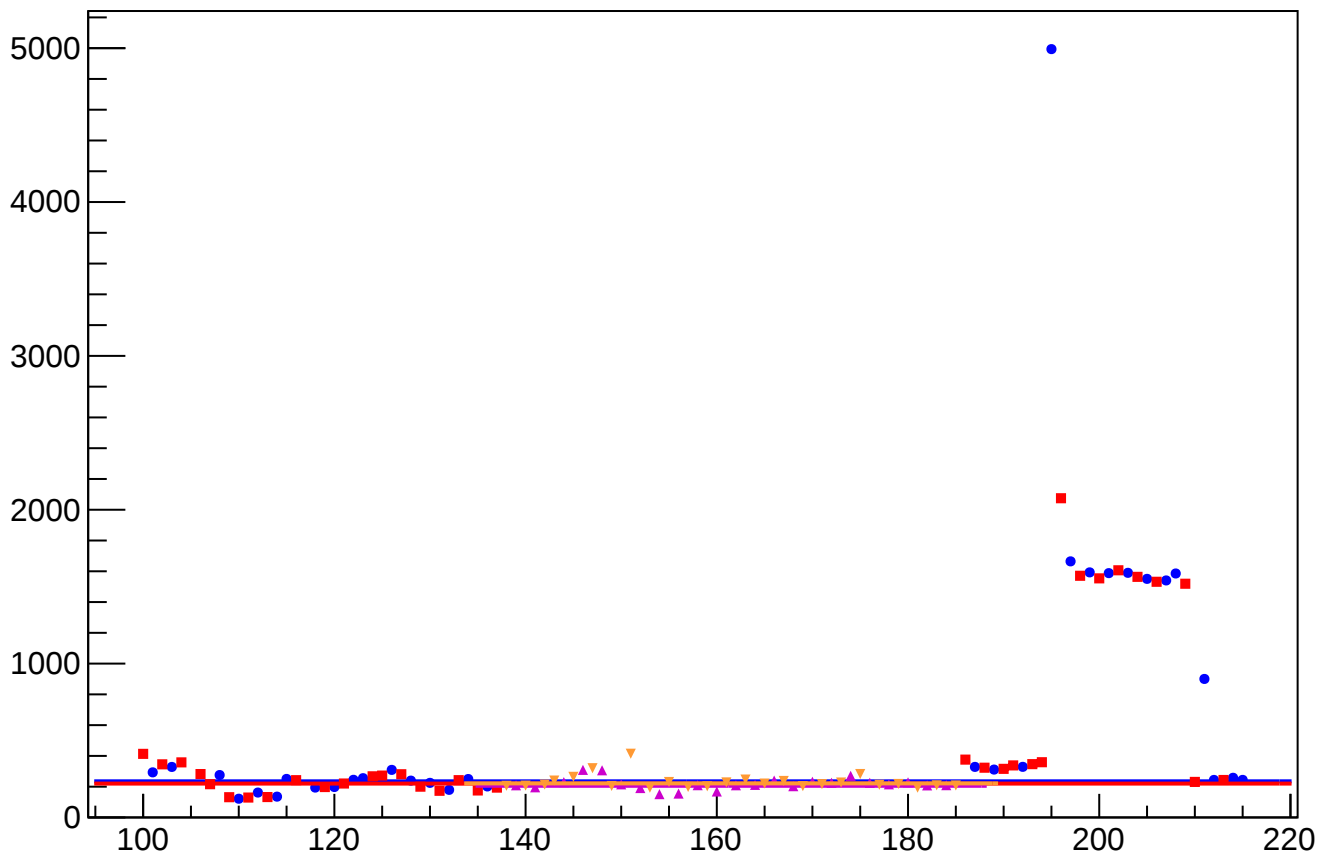
Right: -114.011 $\pm$ 47.728 χ^2 /NDF: 4422.5/65

In: 97.374 $\pm$ 41.249 χ^2 /NDF:2401.3/54

Out: 455.917 $\pm$ 40.969 χ^2 /NDF:5199.5/58

All: 277.865 $\pm$ 29.068 χ^2 /NDF: 7638.9/113

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 234.881 ± 0.050 χ^2/NDF : 11295217.0/31

Left Out: 221.398 ± 0.037 χ^2/NDF : 777833.8/24

Right Out: 220.098 ± 0.046 χ^2/NDF : 10175624.4/33

Left In: 205.803 ± 0.036 χ^2/NDF : 994903.5/22

Left: 213.343 ± 0.026 χ^2/NDF : 1863169.5/47

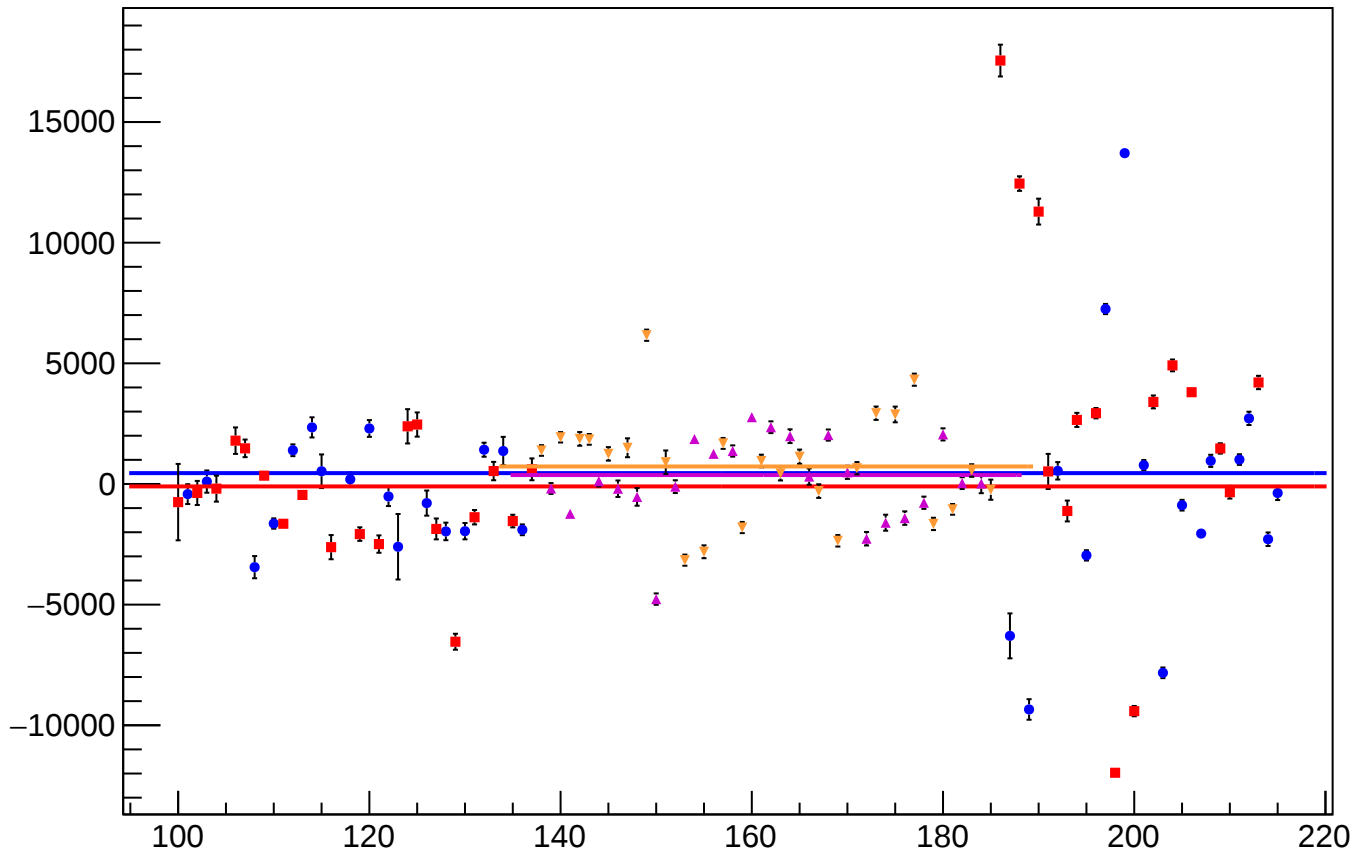
Right: 226.940 ± 0.034 χ^2/NDF : 21518537.5/65

In: 215.855 ± 0.029 χ^2/NDF : 12514906.4/54

Out: 220.884 ± 0.029 χ^2/NDF : 10953939.5/58

All: 218.386 ± 0.021 χ^2/NDF : 23483811.7/11

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 450.043 $\pm$ 50.826 χ^2/NDF : 8618.4/31

Left Out: 725.250 $\pm$ 52.307 χ^2/NDF :1883.1/24

Right Out: -101.283 $\pm$ 51.220 χ^2/NDF : 10296.7/33

Left In: 370.408 $\pm$ 50.884 χ^2/NDF :1223.2/22

Left: 542.938 $\pm$ 36.473 χ^2/NDF : 3129.9/47

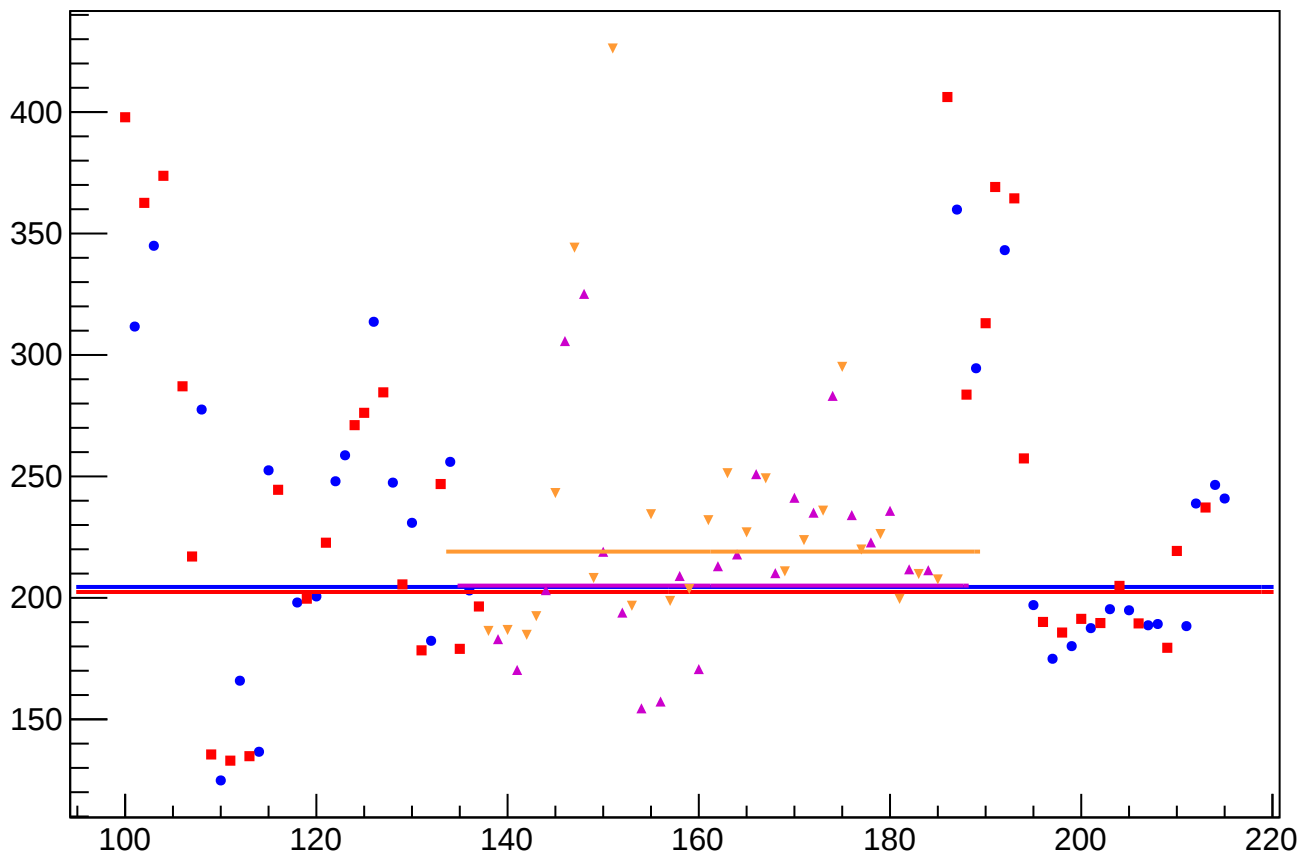
Right: 176.511 $\pm$ 36.078 χ^2/NDF : 18973.5/65

In: 410.272 $\pm$ 35.960 χ^2/NDF :9842.8/54

Out: 303.304 $\pm$ 36.596 χ^2/NDF :12307.3/58

All: 357.726 $\pm$ 25.650 χ^2/NDF : 22154.4/113

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.493+/-0.036 χ^2/NDF : 1612882.7/31

Left Out: 219.049+/-0.037 χ^2/NDF : 975564.4/24

Right Out: 202.425+/-0.036 χ^2/NDF : 2358158.5/33

Left In: 205.046+/-0.036 χ^2/NDF : 1144197.1/22

Left: 211.855+/-0.026 χ^2/NDF : 2193394.9/47

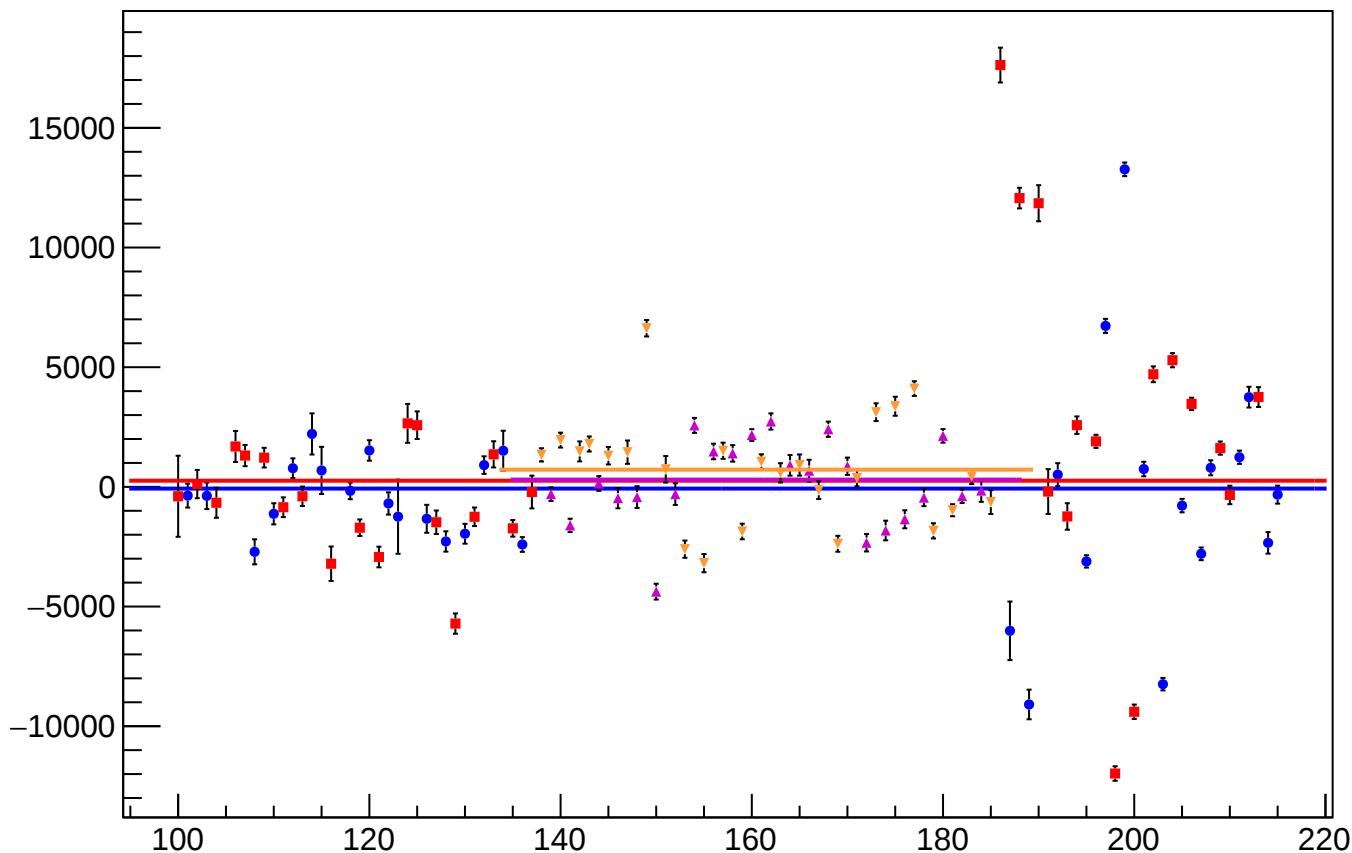
Right: 203.467+/-0.026 χ^2/NDF : 3972683.9/65

In: 204.769+/-0.025 χ^2/NDF : 2757198.3/54

Out: 210.562+/-0.026 χ^2/NDF : 3436847.4/58

All: 207.615+/-0.018 χ^2/NDF : 6219540.7/113

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -71.218 ± 67.972 χ^2/NDF : 4529.0/31

Left Out: 718.705 ± 69.601 χ^2/NDF : 1018.5/24

Right Out: 258.394 ± 70.965 χ^2/NDF : 5427.0/33

Left In: 304.161 ± 70.958 χ^2/NDF : 643.5/22

Left: 515.435 ± 49.688 χ^2/NDF : 1679.4/47

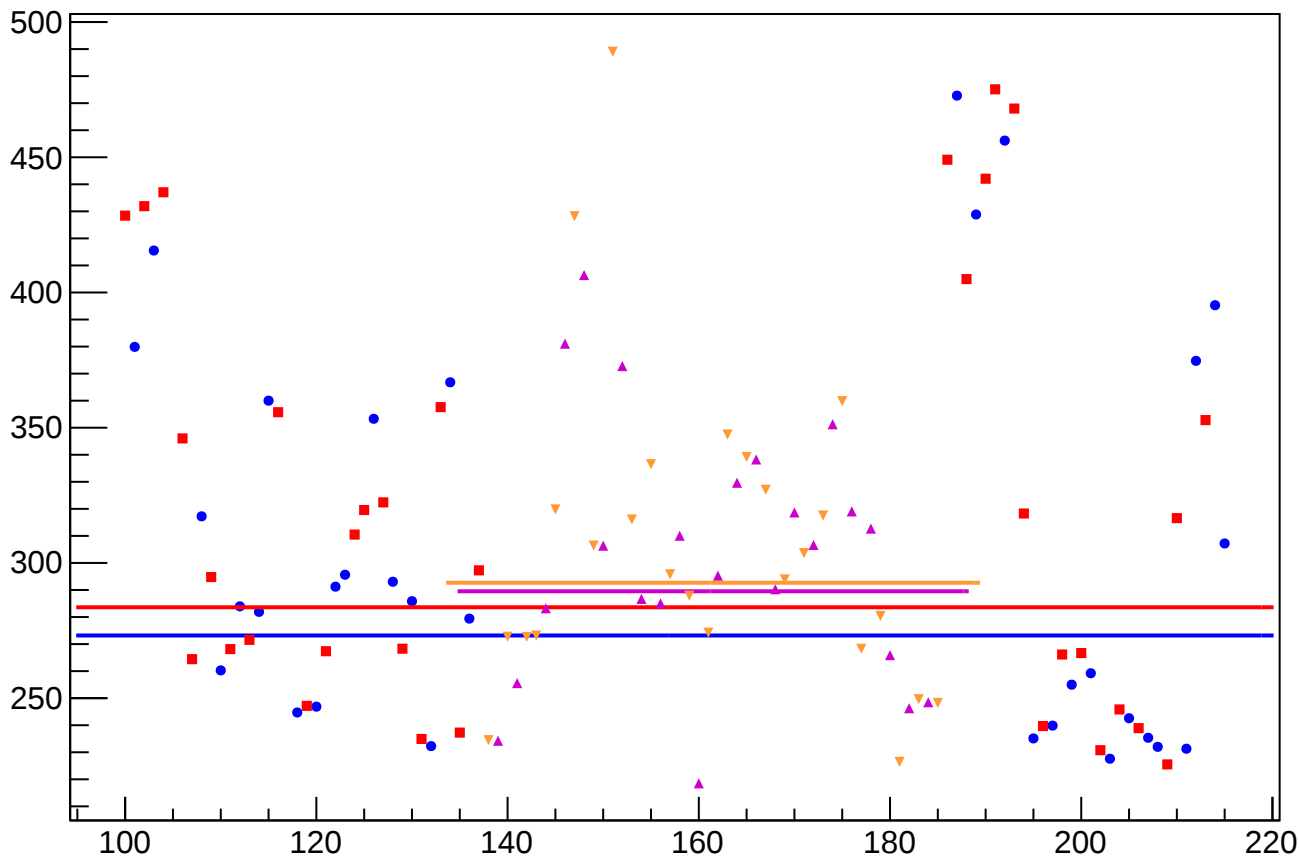
Right: 86.492 ± 49.087 χ^2/NDF : 9967.2/65

In: 108.409 ± 49.085 χ^2/NDF : 5187.1/54

Out: 493.017 ± 49.690 χ^2/NDF : 6467.0/58

All: 298.356 ± 34.920 χ^2/NDF : 11684.3/113

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 273.184 $\pm$ 0.048 χ^2/NDF : 1407287.7/31

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 283.604 $\pm$ 0.050 χ^2/NDF : 1503641.8/33

Left In: 289.522 $\pm$ 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2/NDF : 1705121.5/47

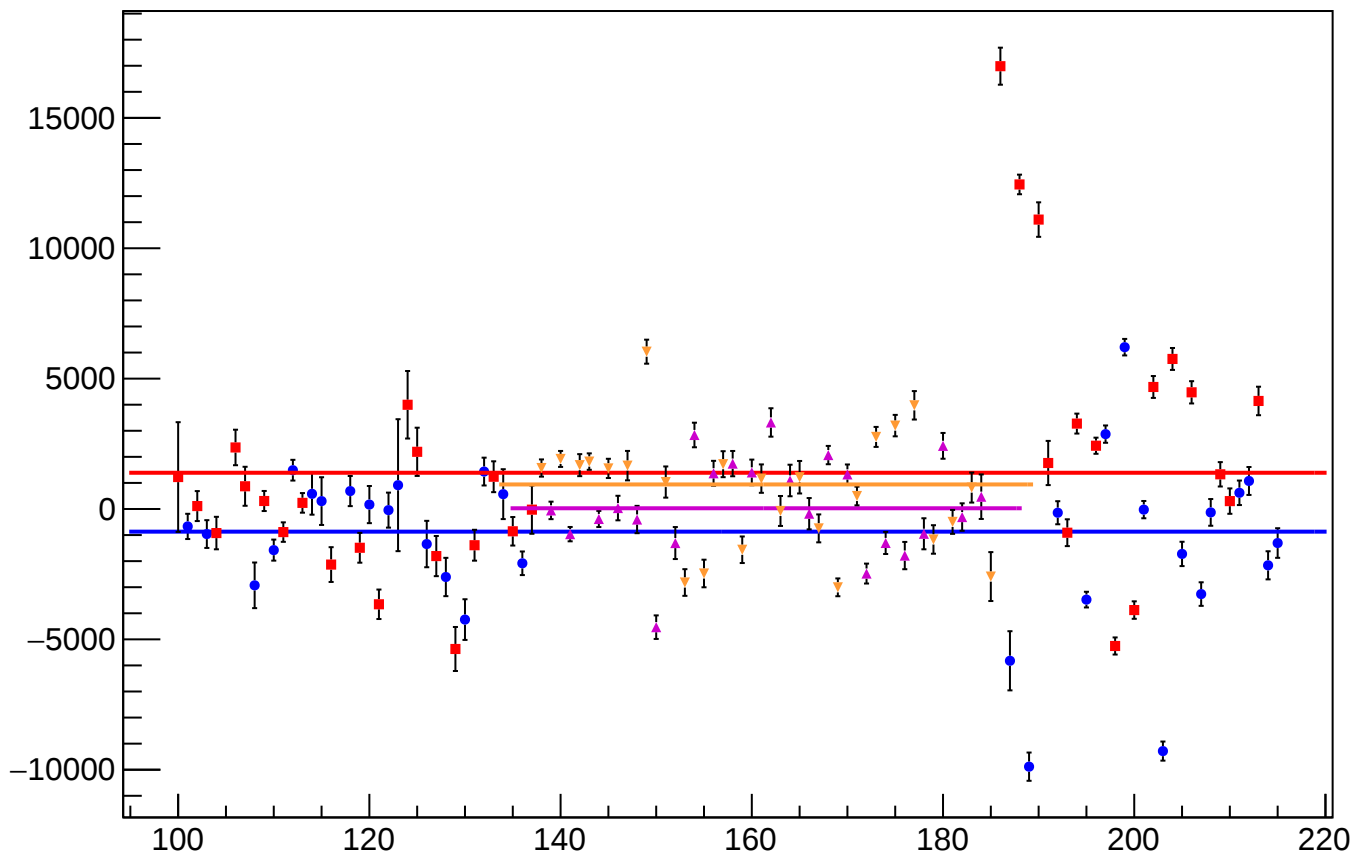
Right: 278.169 $\pm$ 0.035 χ^2/NDF : 2933419.9/65

In: 281.002 $\pm$ 0.035 χ^2/NDF : 2240482.1/54

Out: 288.233 $\pm$ 0.035 χ^2/NDF : 2445531.4/58

All: 284.573 $\pm$ 0.025 χ^2/NDF : 4707451.9/113

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -869.072 $\pm$ 87.794 χ^2 /NDF: 1710.4/31

Left Out: 941.598 $\pm$ 89.119 χ^2 /NDF:544.6/24

Right Out: 1389.640 $\pm$ 85.997 χ^2 /NDF: 2864.2/33

Left In: 27.763 $\pm$ 92.331 χ^2 /NDF:362.5/22

Left: 500.853 $\pm$ 64.122 χ^2 /NDF: 957.8/47

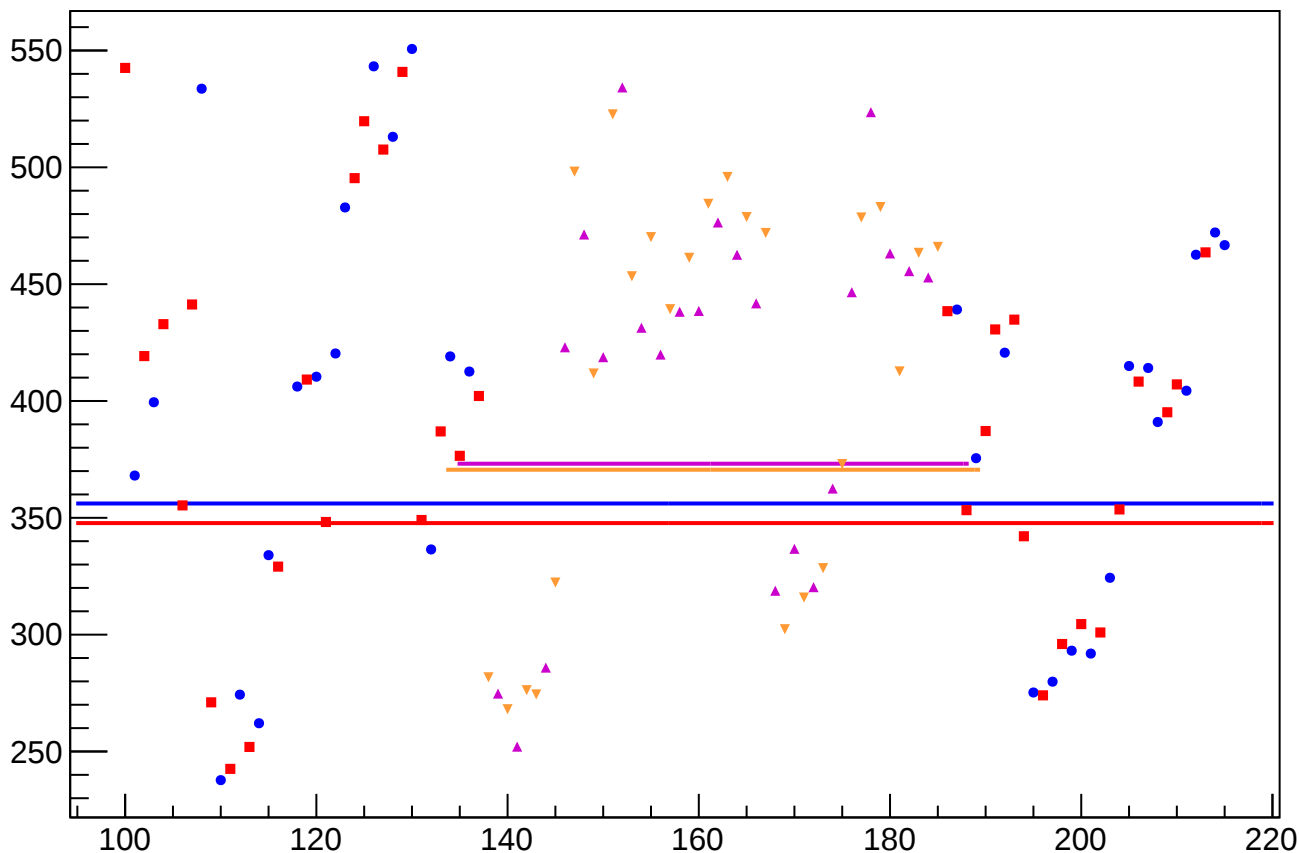
Right: 283.634 $\pm$ 61.435 χ^2 /NDF: 4912.4/65

In: -443.231 $\pm$ 63.623 χ^2 /NDF:2122.5/54

Out: 1173.604 $\pm$ 61.883 χ^2 /NDF:3421.9/58

All: 387.596 $\pm$ 44.360 χ^2 /NDF: 5876.2/113

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 356.133+/-0.062 χ^2/NDF : 1596928.6/31

Left Out: 370.580+/-0.063 χ^2/NDF : 1878118.9/24

Right Out: 347.747+/-0.061 χ^2/NDF : 1335586.8/33

Left In: 373.161+/-0.065 χ^2/NDF : 1636244.2/22

Left: 371.824+/-0.045 χ^2/NDF : 3515172.3/47

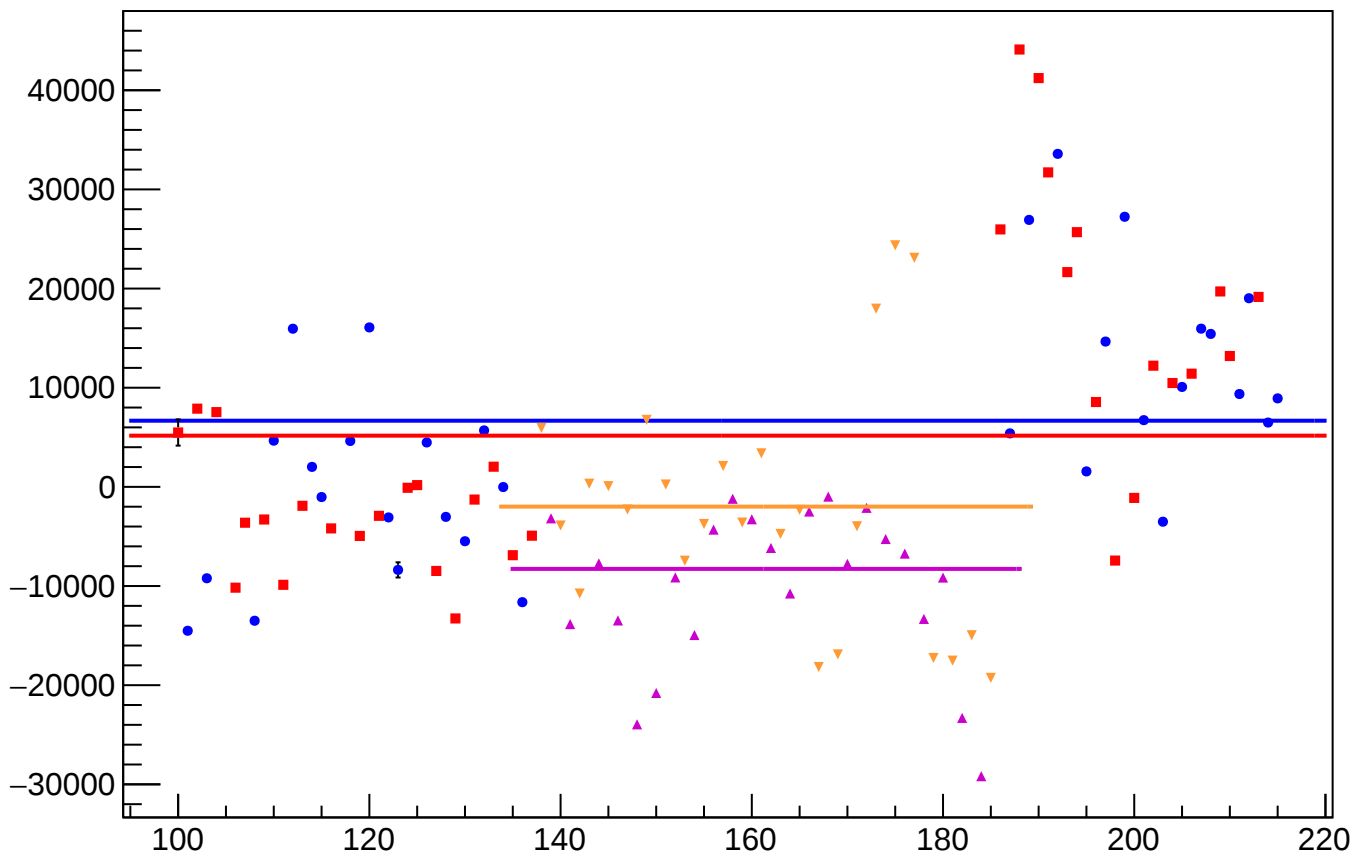
Right: 351.854+/-0.043 χ^2/NDF : 2941827.5/65

In: 364.218+/-0.045 χ^2/NDF : 3268895.6/54

Out: 358.757+/-0.044 χ^2/NDF : 3281683.7/58

All: 361.412+/-0.031 χ^2/NDF : 6558152.9/113

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6672.533+/-39.654 χ^2/NDF : 93771.6/31

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5164.569+/-38.756 χ^2/NDF : 144038.9/33

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

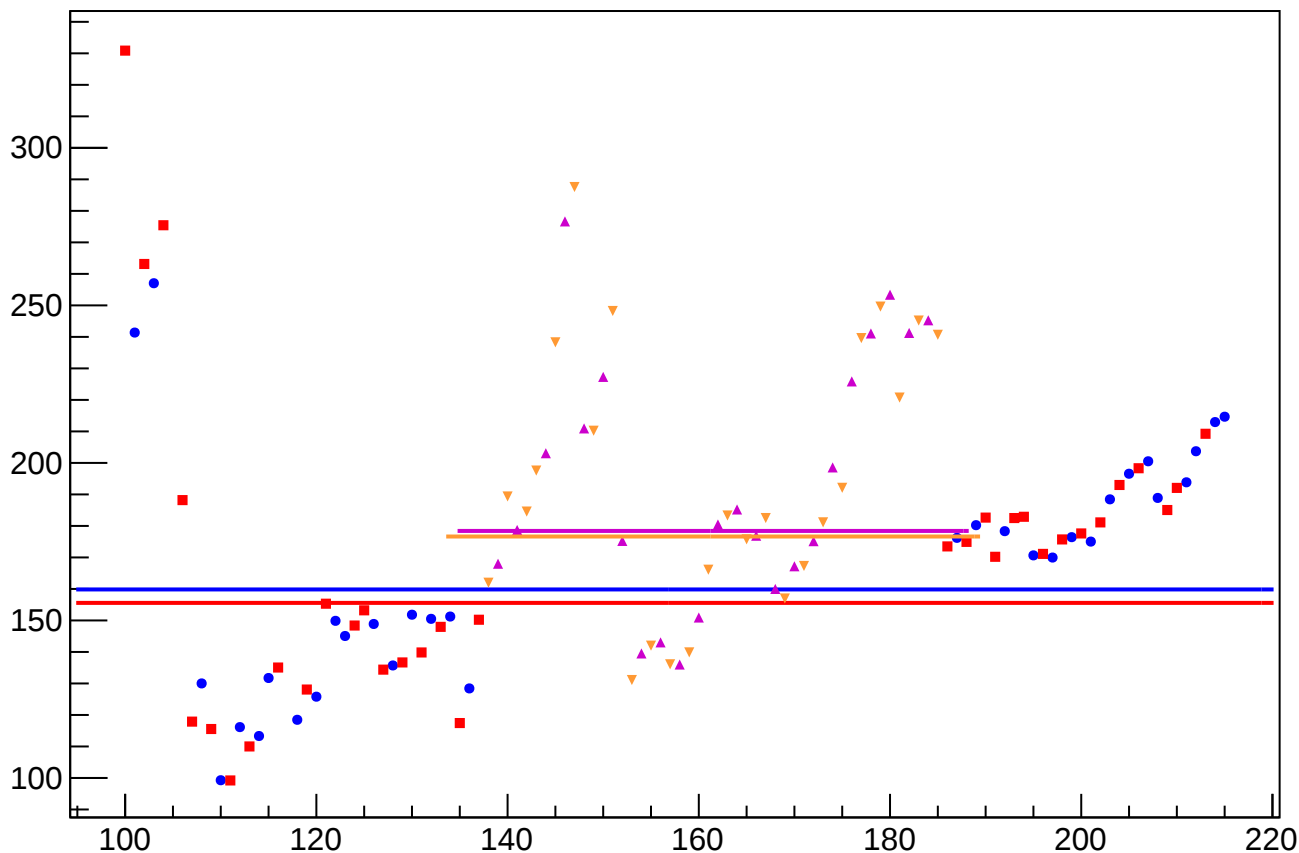
Right: 5901.272+/-27.717 χ^2/NDF : 238550.1/65

In: 24.331+/-29.547 χ^2/NDF : 179830.3/54

Out: 1909.320+/-28.614 χ^2/NDF : 223315.0/58

All: 997.030+/-20.555 χ^2/NDF : 405245.5/113

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 159.839 $\pm$ 0.028 χ^2/NDF : 1625934.8/31

Left Out: 176.641 $\pm$ 0.030 χ^2/NDF :1551048.8/24

Right Out: 155.571 $\pm$ 0.027 χ^2/NDF : 1731052.3/33

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

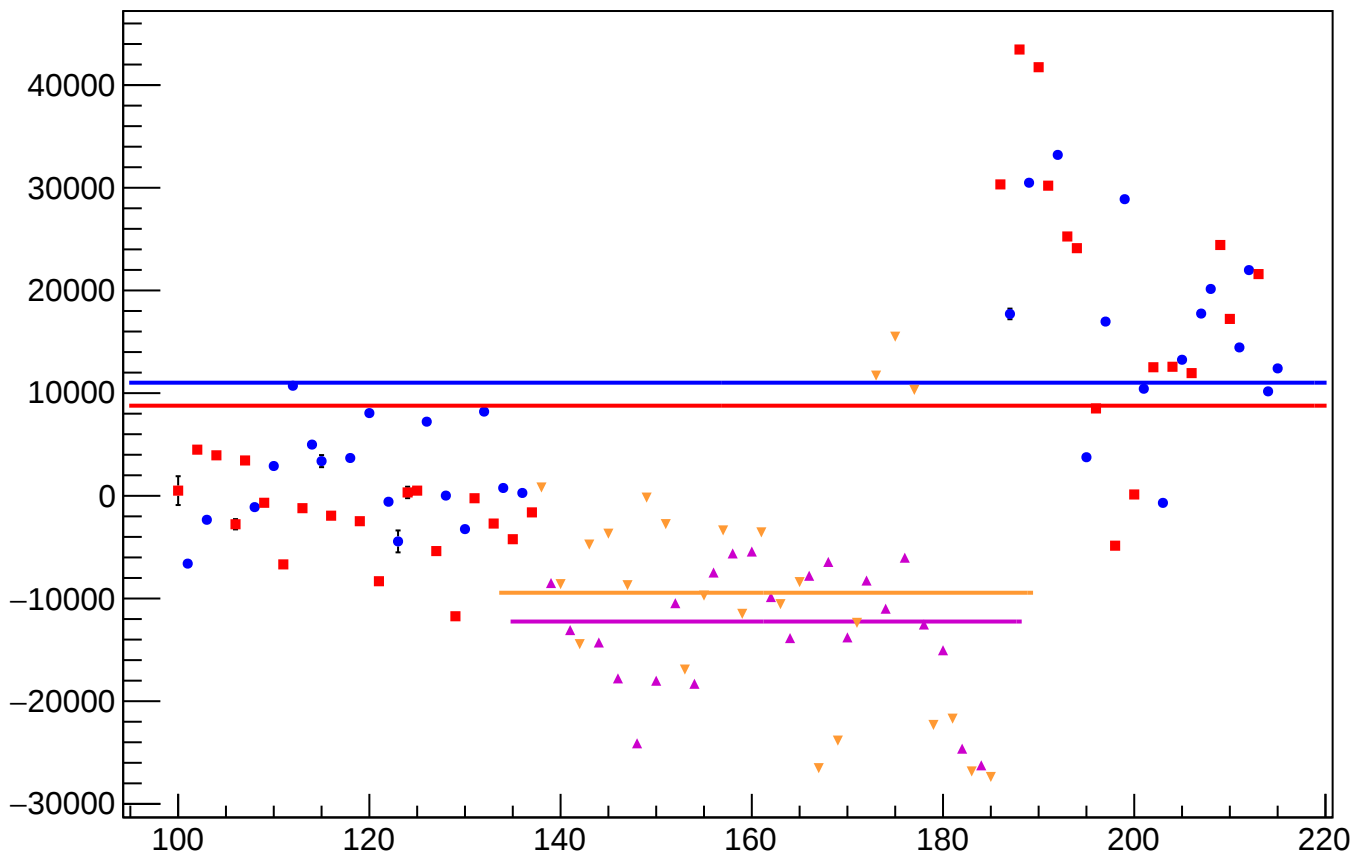
Right: 157.656 $\pm$ 0.020 χ^2/NDF : 3368835.6/65

In: 168.101 $\pm$ 0.021 χ^2/NDF :3114855.1/54

Out: 165.155 $\pm$ 0.020 χ^2/NDF :3550973.0/58

All: 166.581 $\pm$ 0.015 χ^2/NDF : 6676088.4/113

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11017.661 $\pm$ 43.579

χ^2 /NDF: 55173.7/31

Left Out: -9437.408 $\pm$ 45.534

χ^2 /NDF: 62220.4/24

Right Out: 8778.623 $\pm$ 42.880

χ^2 /NDF: 115696.0/33

Left In: -12242.226 $\pm$ 43.944

χ^2 /NDF: 16615.8/22

Left: -10889.638 $\pm$ 31.621 χ^2 /NDF: 80800.7/47

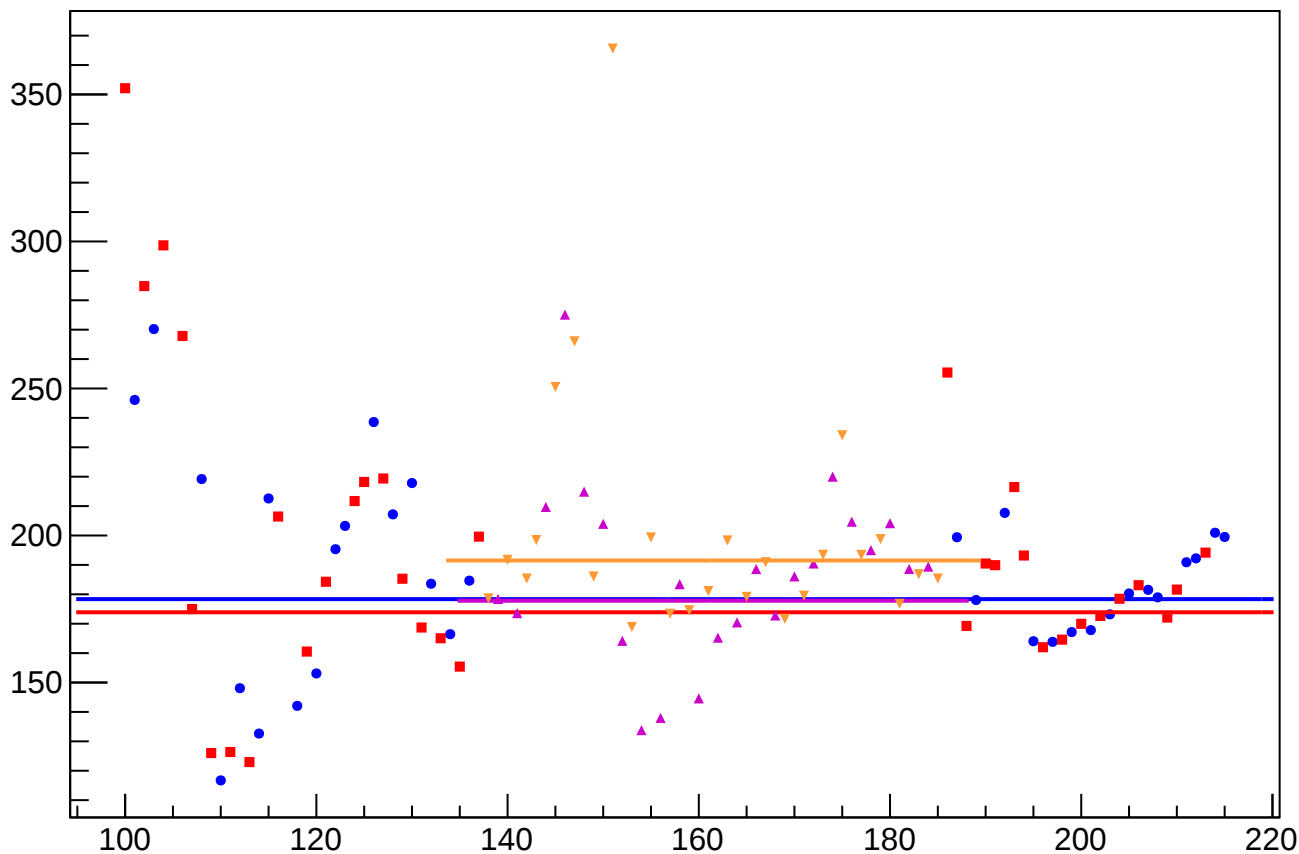
Right: 9880.036 $\pm$ 30.565 χ^2 /NDF: 172211.0/65

In: -515.255 $\pm$ 30.944 χ^2 /NDF: 213038.7/54

Out: 216.964 $\pm$ 31.217 χ^2 /NDF: 262736.7/58

All: -152.367 $\pm$ 21.976 χ^2 /NDF: 476052.9/11

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.360+/-0.031 χ^2/NDF : 819184.8/31

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 173.891+/-0.030 χ^2/NDF : 1151604.9/33

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

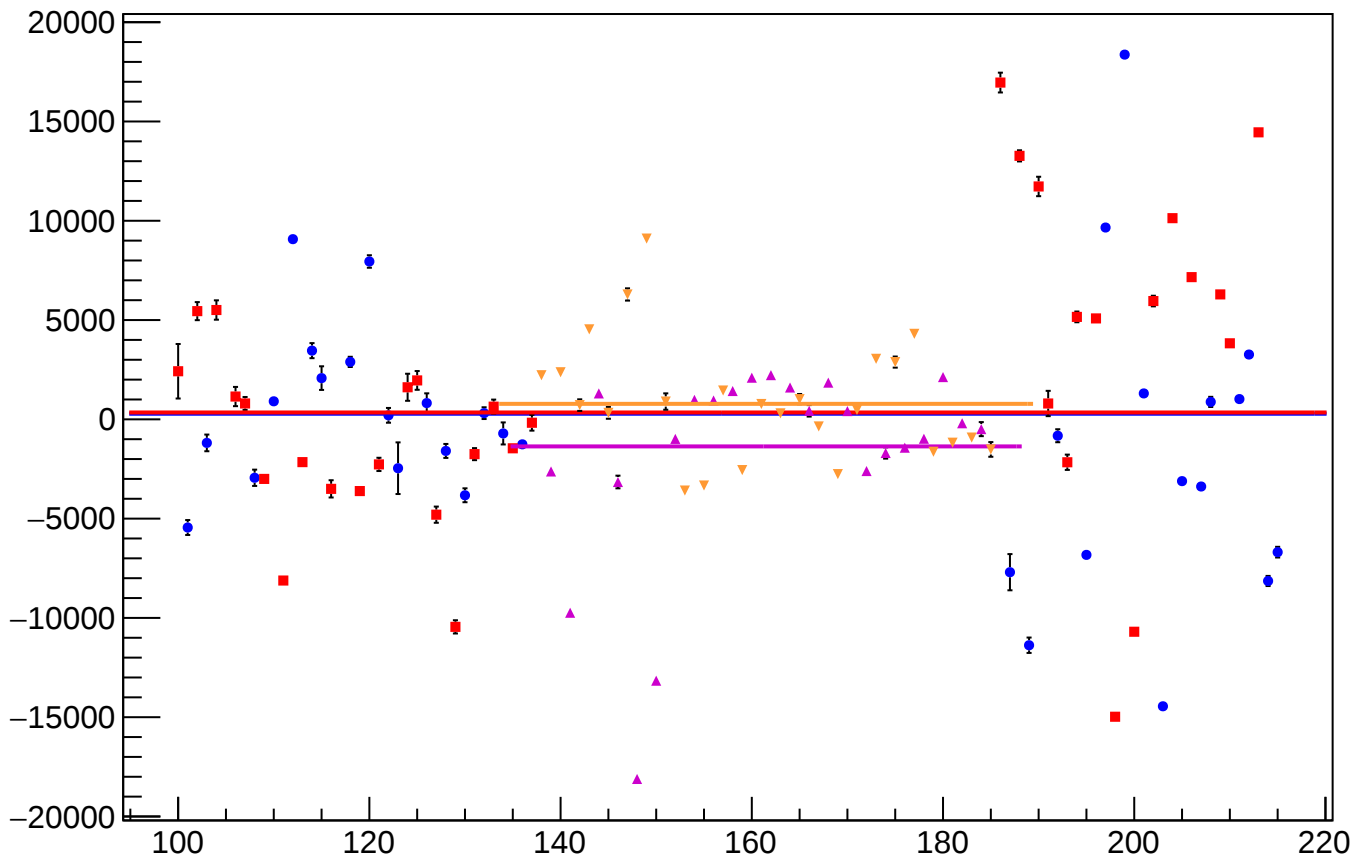
Right: 176.089+/-0.022 χ^2/NDF : 1981477.0/65

In: 178.093+/-0.022 χ^2/NDF : 1681830.6/54

Out: 182.170+/-0.022 χ^2/NDF : 2037506.3/58

All: 180.114+/-0.016 χ^2/NDF : 3736547.4/113

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 282.412 $\pm$ 48.813 χ^2 /NDF: 22329.3/31

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: 345.795 $\pm$ 48.260 χ^2 /NDF: 24948.3/33

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

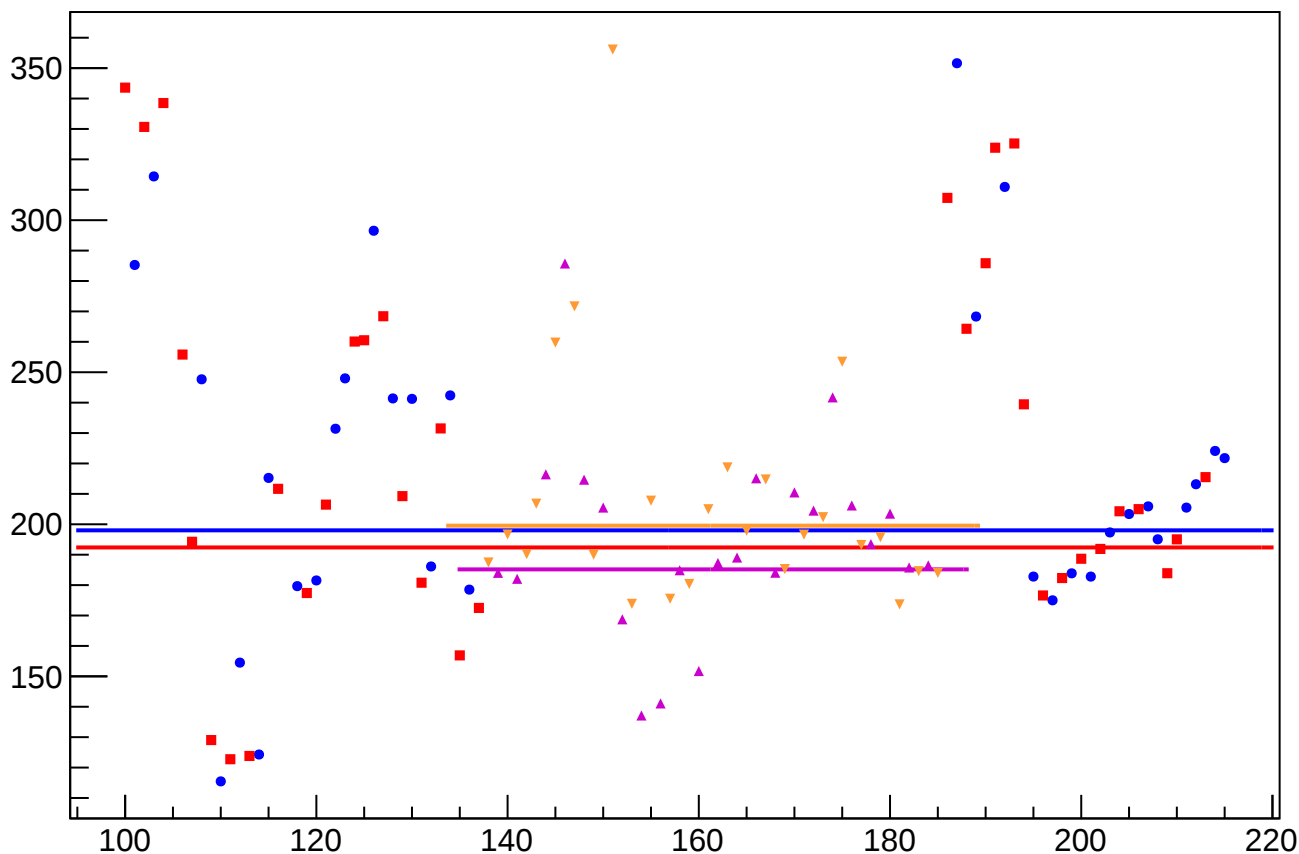
Right: 314.464 $\pm$ 34.319 χ^2 /NDF: 47278.4/65

In: -592.538 $\pm$ 33.402 χ^2 /NDF:34566.4/54

Out: 566.529 $\pm$ 33.838 χ^2 /NDF:29250.2/58

All: -20.507 $\pm$ 23.771 χ^2 /NDF: 64410.8/113

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 198.008 ± 0.035 $\chi^2/\text{NDF}: 1468370.0/31$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 192.384 ± 0.034 $\chi^2/\text{NDF}: 2162853.9/33$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

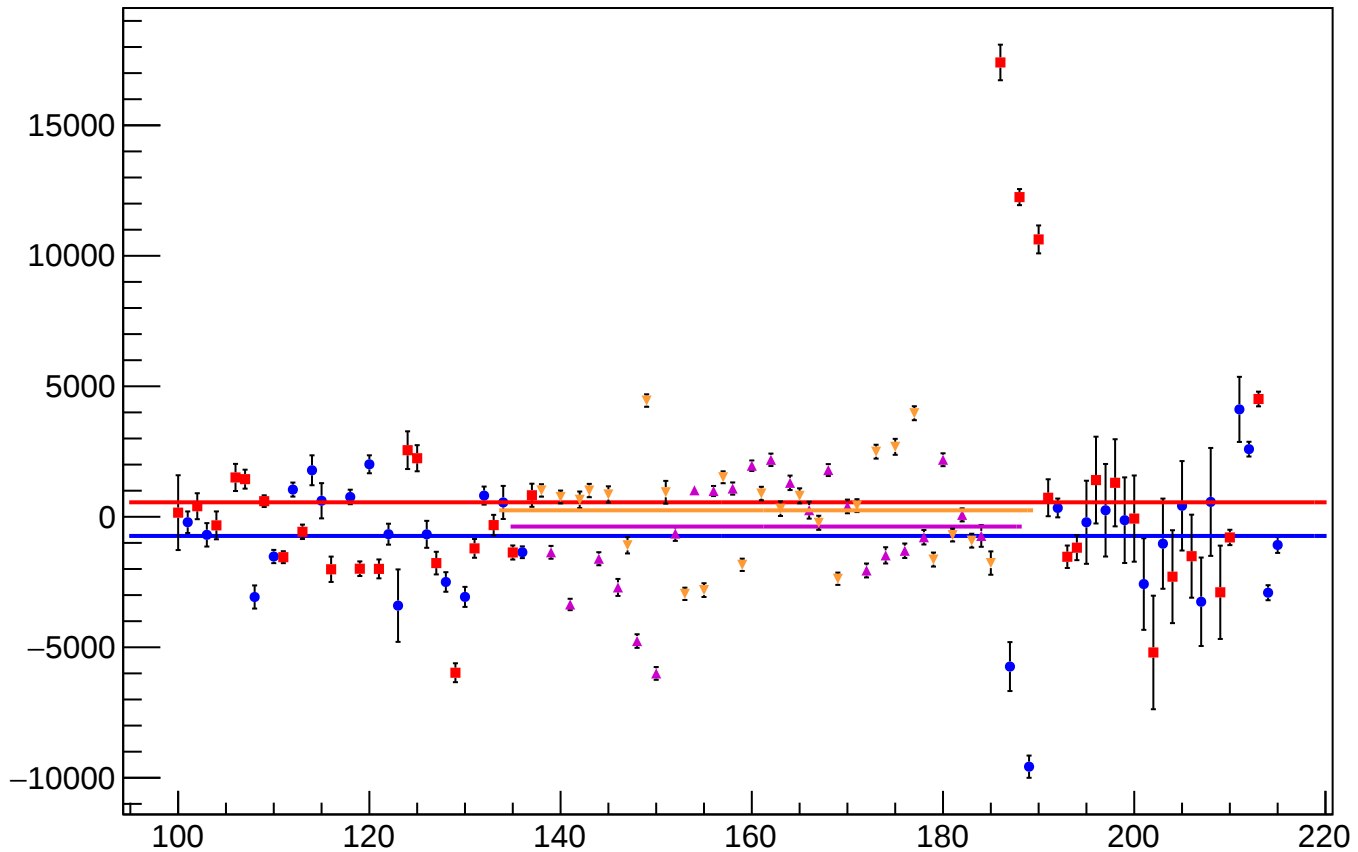
Right: 195.164 ± 0.024 $\chi^2/\text{NDF}: 3644650.8/65$

In: 191.182 ± 0.024 $\chi^2/\text{NDF}: 2424683.8/54$

Out: 196.026 ± 0.024 $\chi^2/\text{NDF}: 2914606.7/58$

All: 193.572 ± 0.017 $\chi^2/\text{NDF}: 5360044.6/113$

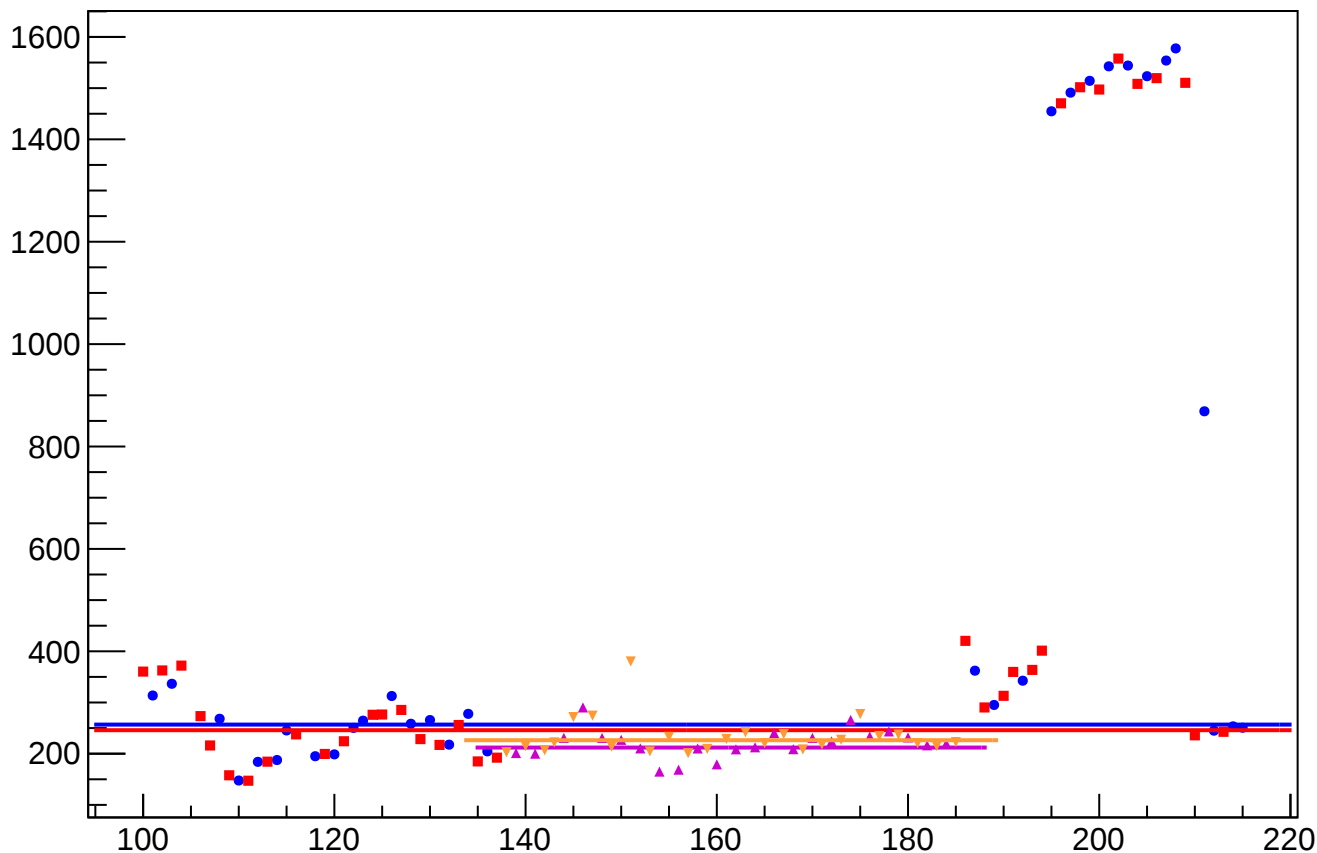
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -733.485 ± 74.568 $\chi^2/\text{NDF}: 977.3/31$
 Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$
 Right Out: 555.028 ± 70.319 $\chi^2/\text{NDF}: 3400.3/33$
 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: -51.467 ± 51.159 $\chi^2/\text{NDF}: 4535.6/65$
 In: -491.849 ± 42.680 $\chi^2/\text{NDF}: 2793.9/54$
 Out: 360.612 ± 42.605 $\chi^2/\text{NDF}: 4767.5/58$
 All: -64.871 ± 30.153 $\chi^2/\text{NDF}: 7761.2/113$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.836 $\pm$ 0.053 χ^2 /NDF: 10146968.3/31

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 245.898 $\pm$ 0.050 χ^2 /NDF: 9273307.6/33

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

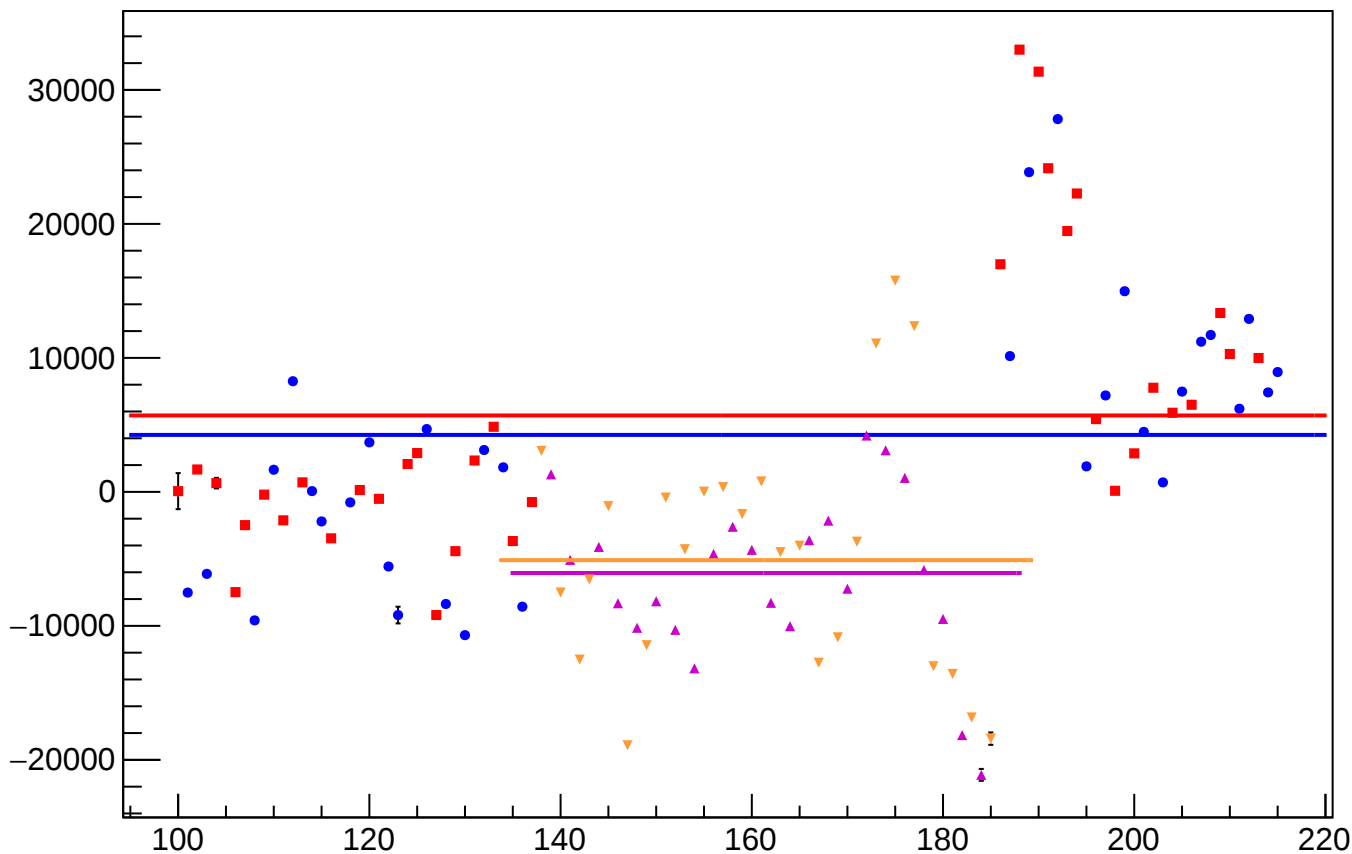
Right: 251.047 $\pm$ 0.036 χ^2 /NDF: 19443053.8/65

In: 226.668 $\pm$ 0.030 χ^2 /NDF: 11218155.1/54

Out: 233.508 $\pm$ 0.030 χ^2 /NDF: 9892454.8/58

All: 230.094 $\pm$ 0.021 χ^2 /NDF: 21136339.0/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4252.380 $\pm$ 33.717 χ^2/NDF : 80123.8/31

Left Out: -5095.305 $\pm$ 33.703 χ^2/NDF : 54395.4/24

Right Out: 5703.034 $\pm$ 32.712 χ^2/NDF : 103898.9/33

Left In: -6053.569 $\pm$ 34.998 χ^2/NDF : 17590.3/22

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

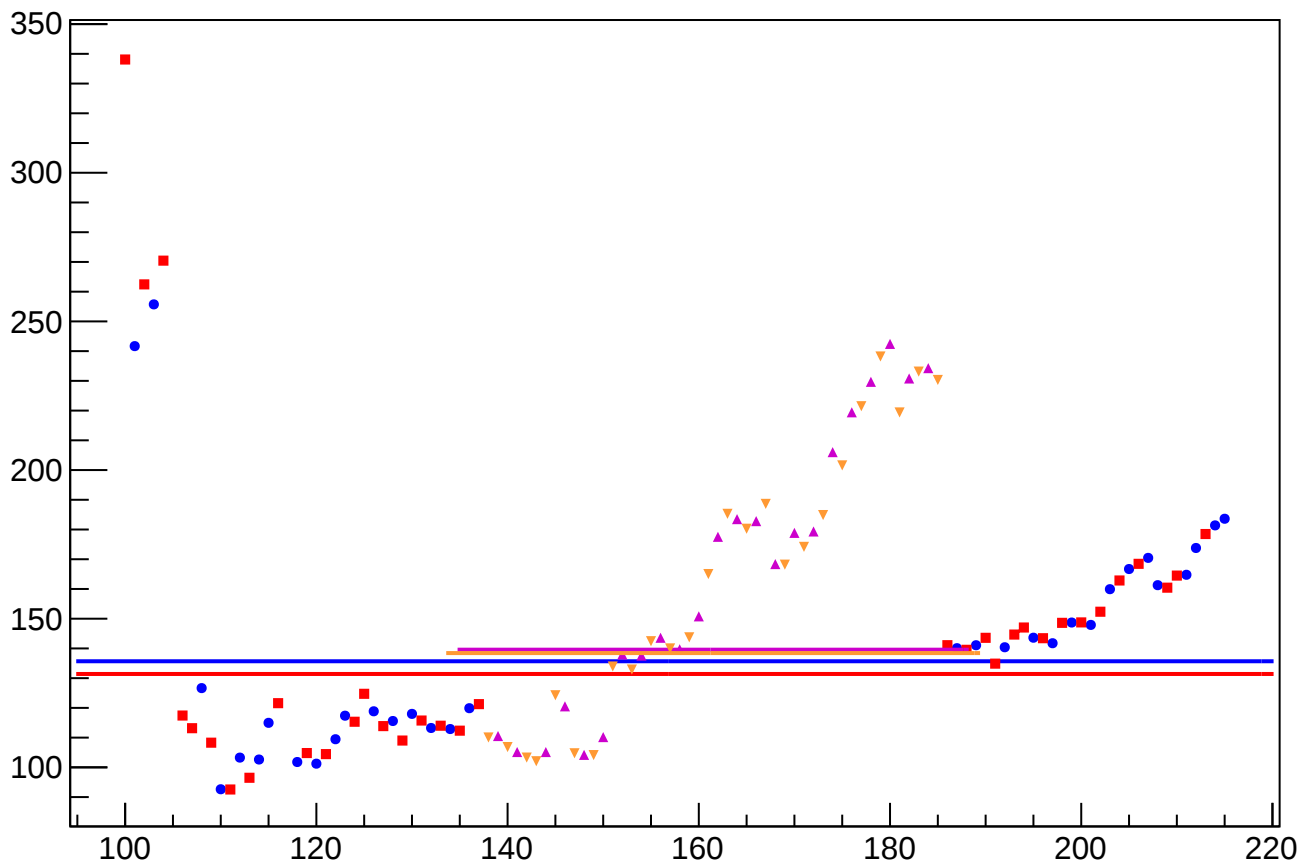
Right: 4999.665 $\pm$ 23.478 χ^2/NDF : 184976.2/65

In: -708.589 $\pm$ 24.282 χ^2/NDF : 142686.5/54

Out: 465.084 $\pm$ 23.473 χ^2/NDF : 211152.6/58

All: -101.888 $\pm$ 16.877 χ^2/NDF : 355046.8/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 135.684+/-0.024 χ^2/NDF : 1632037.2/31

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 131.408+/-0.023 χ^2/NDF : 1585555.3/33

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

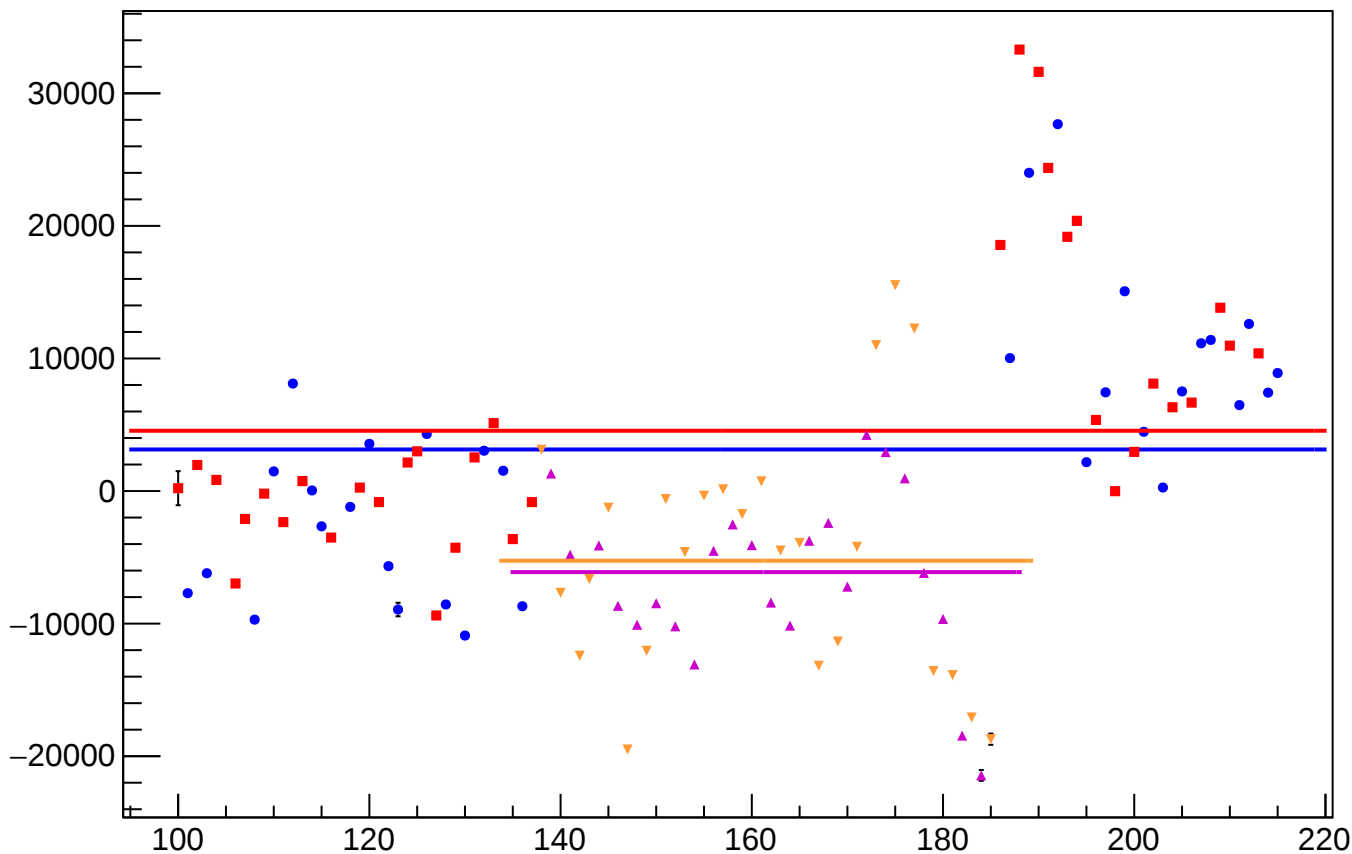
Right: 133.481+/-0.017 χ^2/NDF : 3234165.6/65

In: 137.558+/-0.017 χ^2/NDF : 4058535.5/54

Out: 134.817+/-0.017 χ^2/NDF : 4179773.7/58

All: 136.141+/-0.012 χ^2/NDF : 8251489.0/113

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3135.453+/-30.263 χ^2/NDF : 91084.9/31

Left Out: -5255.652+/-30.622 χ^2/NDF : 64324.6/24

Right Out: 4547.836+/-29.462 χ^2/NDF : 113733.0/33

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

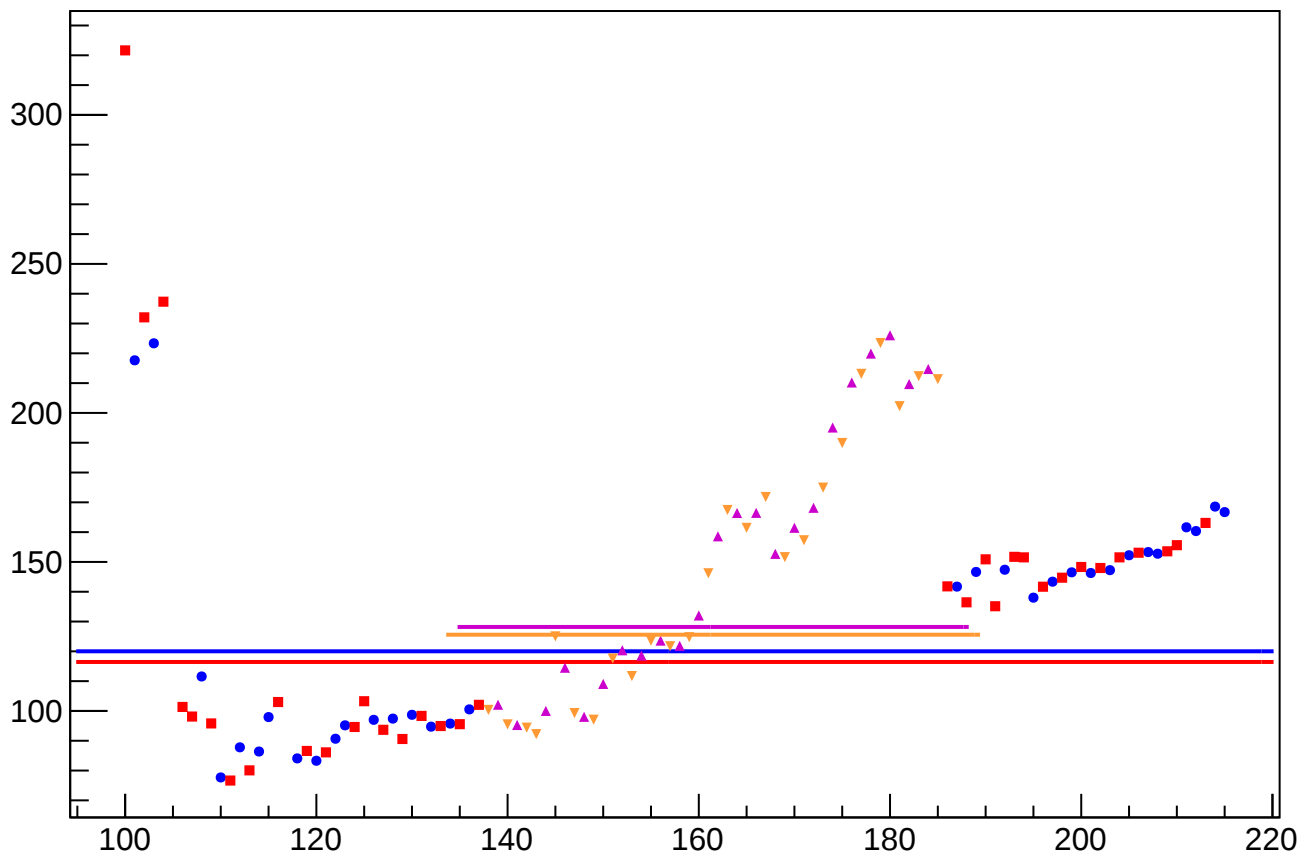
Right: 3860.586+/-21.110 χ^2/NDF : 205936.2/65

In: -1213.805+/-22.028 χ^2/NDF : 156274.5/54

Out: -164.703+/-21.231 χ^2/NDF : 231282.4/58

All: -669.926+/-15.287 χ^2/NDF : 388732.7/111

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.015 ± 0.021 $\chi^2/\text{NDF}: 2445272.5/31$

Left Out: 125.577 ± 0.022 $\chi^2/\text{NDF}: 2595752.6/24$

Right Out: 116.437 ± 0.021 $\chi^2/\text{NDF}: 2474336.2/33$

Left In: 128.184 ± 0.023 $\chi^2/\text{NDF}: 2332977.5/22$

Left: 126.818 ± 0.016 $\chi^2/\text{NDF}: 4935627.6/47$

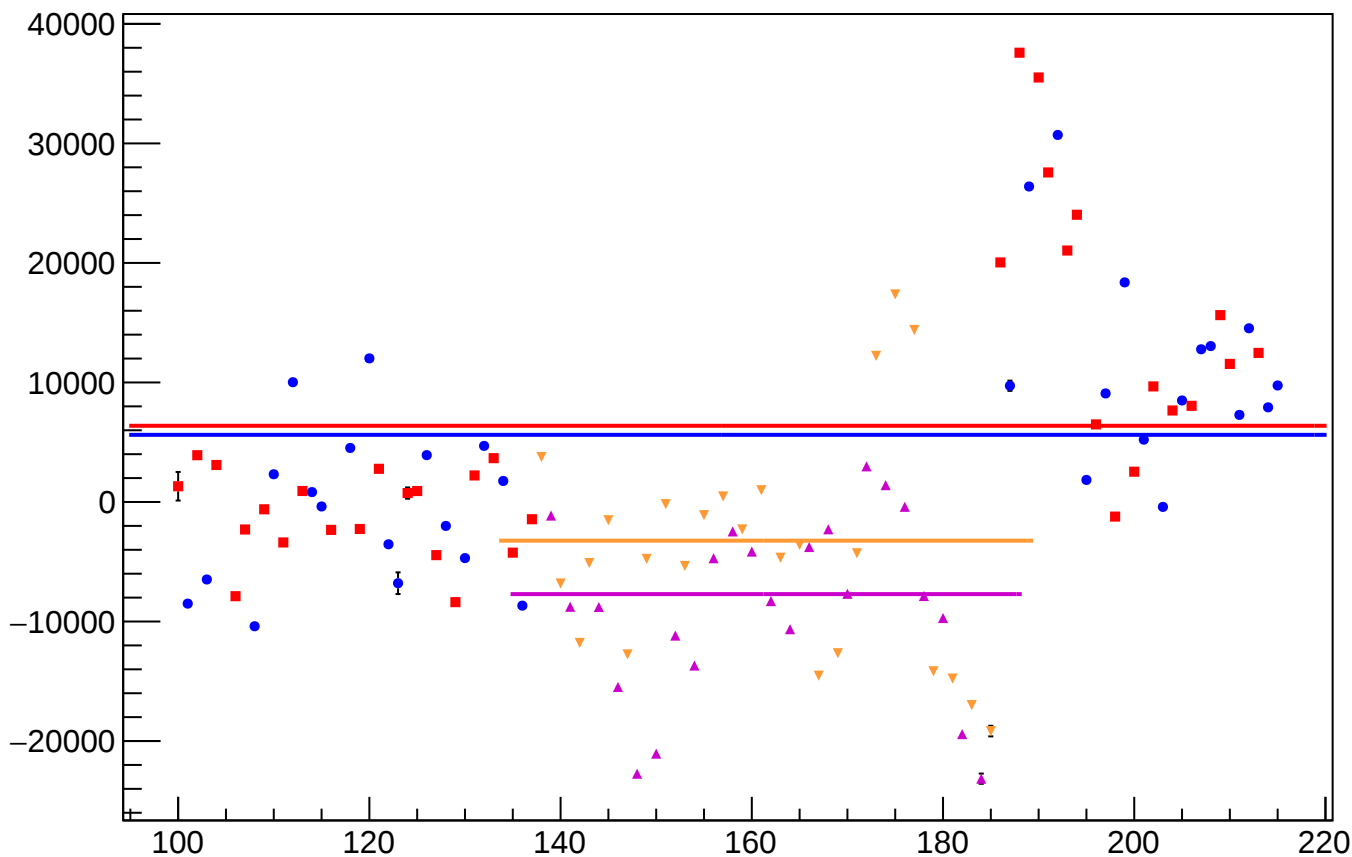
Right: 118.178 ± 0.015 $\chi^2/\text{NDF}: 4933964.0/65$

In: 123.856 ± 0.016 $\chi^2/\text{NDF}: 4846758.0/54$

Out: 120.831 ± 0.015 $\chi^2/\text{NDF}: 5162623.3/58$

All: 122.287 ± 0.011 $\chi^2/\text{NDF}: 10028934.9/11$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5618.191+/-39.982 χ^2/NDF : 62901.2/31

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 6376.236+/-38.871 χ^2/NDF : 93443.9/33

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

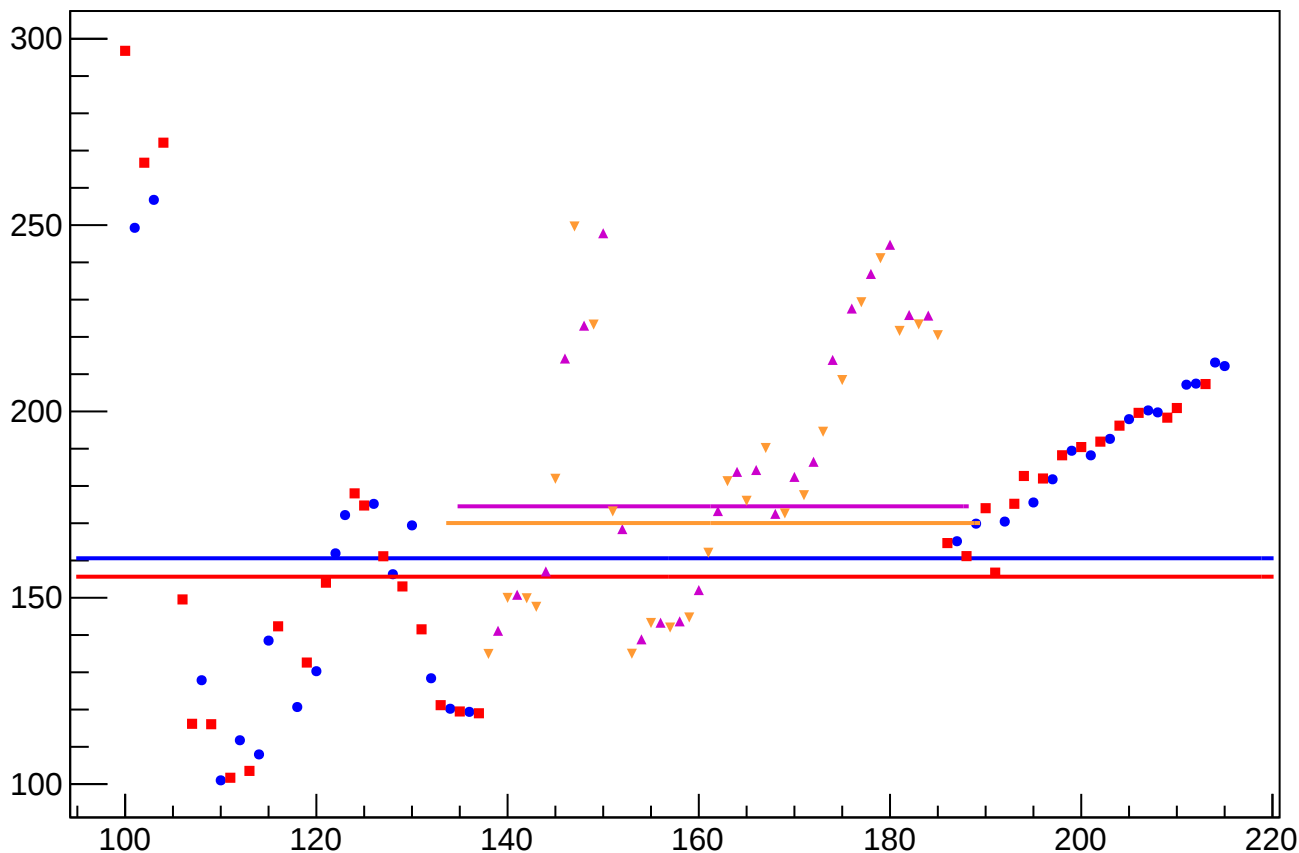
Right: 6007.884+/-27.870 χ^2/NDF : 156529.9/65

In: -561.945+/-29.277 χ^2/NDF : 135686.8/54

Out: 1777.558+/-28.072 χ^2/NDF : 159435.3/58

All: 656.956+/-20.262 χ^2/NDF : 298448.9/113

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 160.599 $\pm$ 0.028 χ^2 /NDF: 1901246.5/31

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 155.655 $\pm$ 0.027 χ^2 /NDF: 1888899.4/33

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

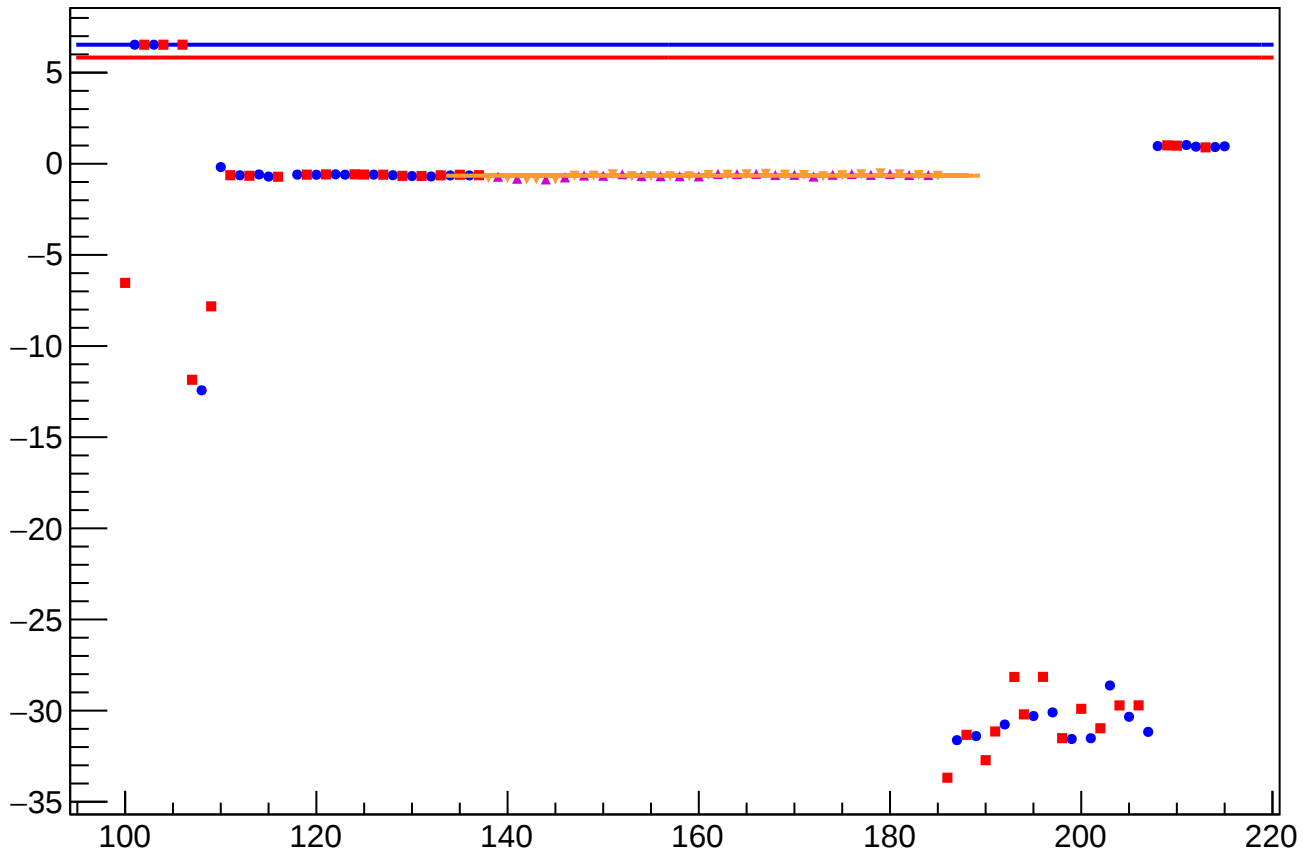
Right: 158.057 $\pm$ 0.020 χ^2 /NDF: 3805870.4/65

In: 167.064 $\pm$ 0.021 χ^2 /NDF:3224075.8/54

Out: 162.542 $\pm$ 0.020 χ^2 /NDF:3260997.1/58

All: 164.708 $\pm$ 0.014 χ^2 /NDF: 6509933.4/113

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 136969014979.3/31

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755951738191681.8/33

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

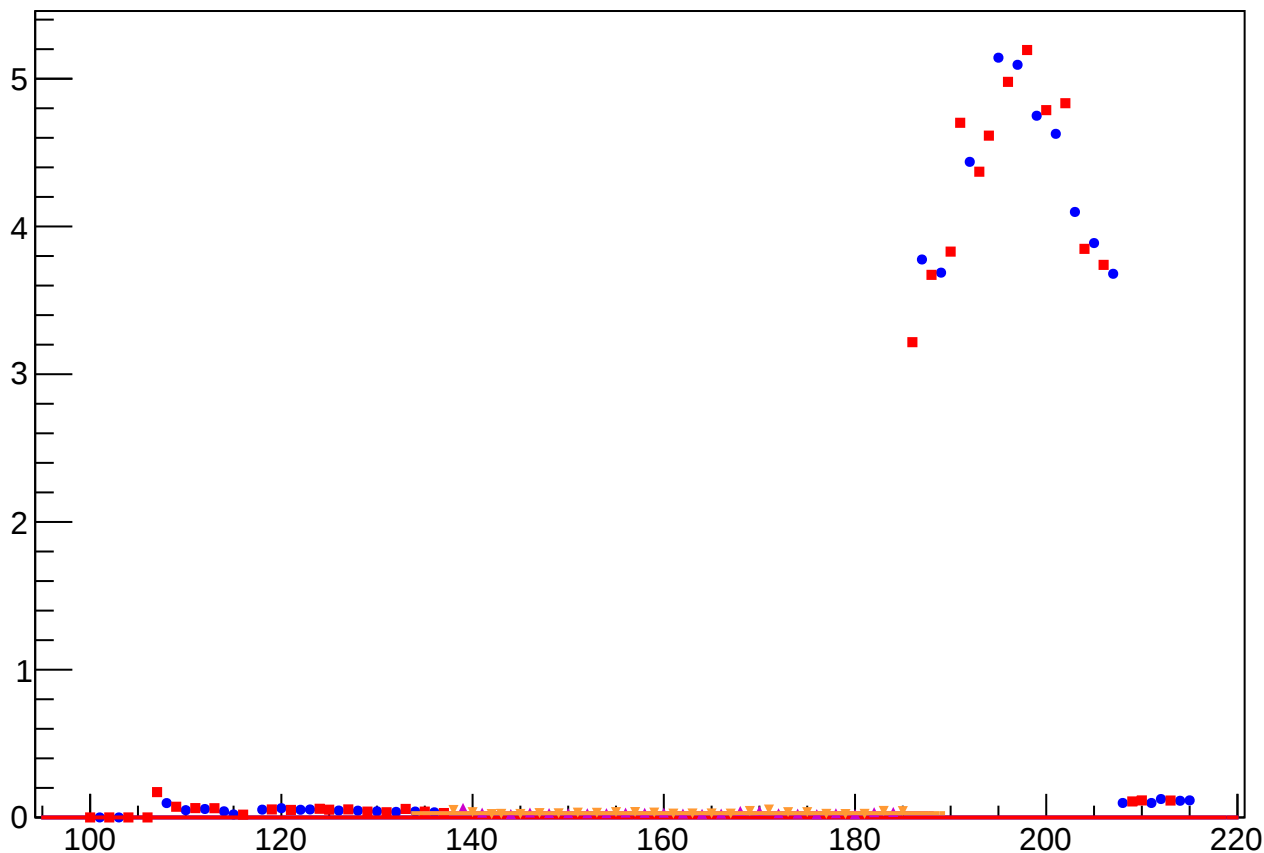
Right: 6.155+/-0.000 χ^2/NDF : 776091247277462.4/50

In: 6.530+/-0.000 χ^2/NDF : 962311519358.5/54

Out: 5.826+/-0.000 χ^2/NDF : 756660764836643.2/50

All: 6.153+/-0.000 χ^2/NDF : 77761461056976.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29745122.7/31

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29049862.2/33

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

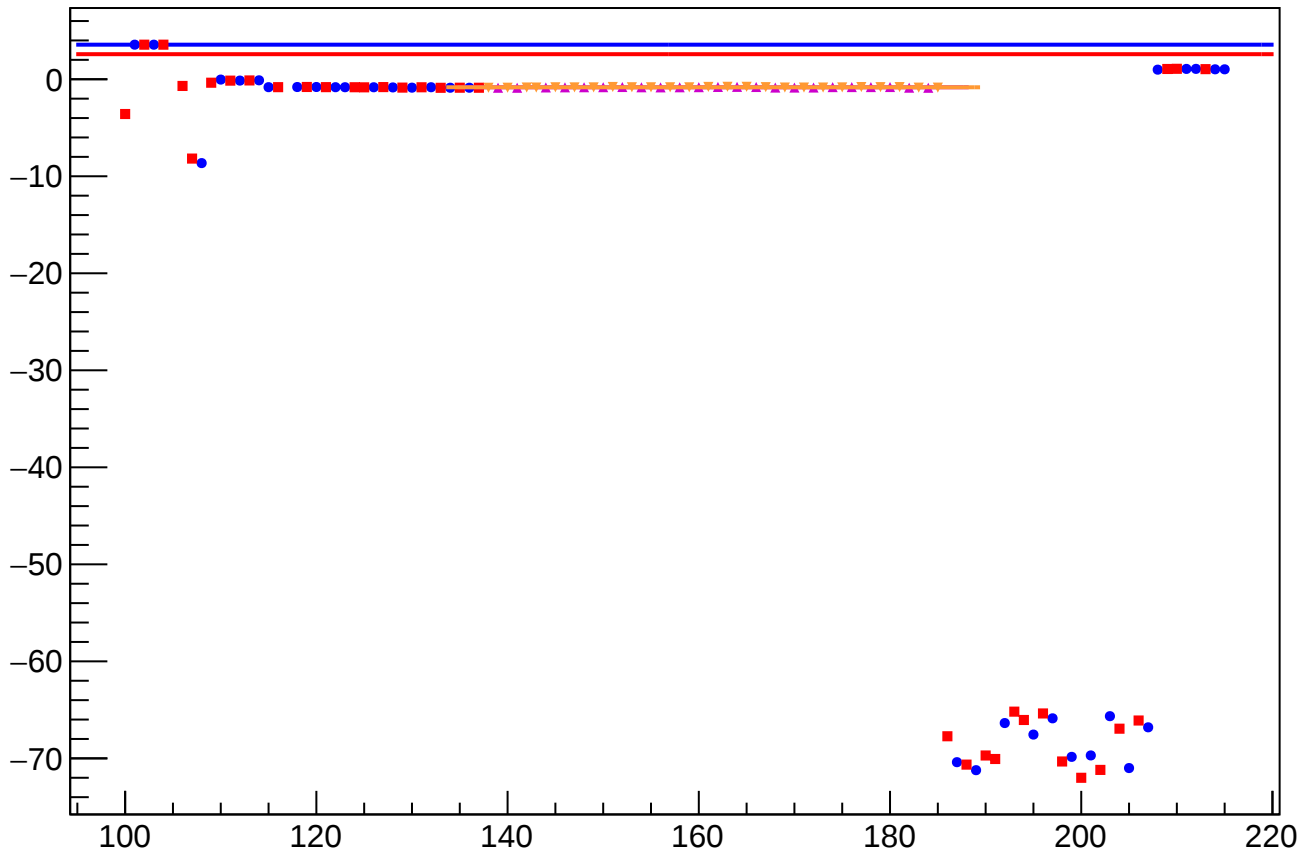
Right: 0.000+/-0.000 χ^2/NDF : 58795295.8/65

In: 0.000+/-0.000 χ^2/NDF :57706024.6/54

Out: 0.000+/-0.000 χ^2/NDF :58925110.4/58

All: 0.000+/-0.000 χ^2/NDF : 116631628.2/113

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 558843691275.2/31

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253549061871063.8/33

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

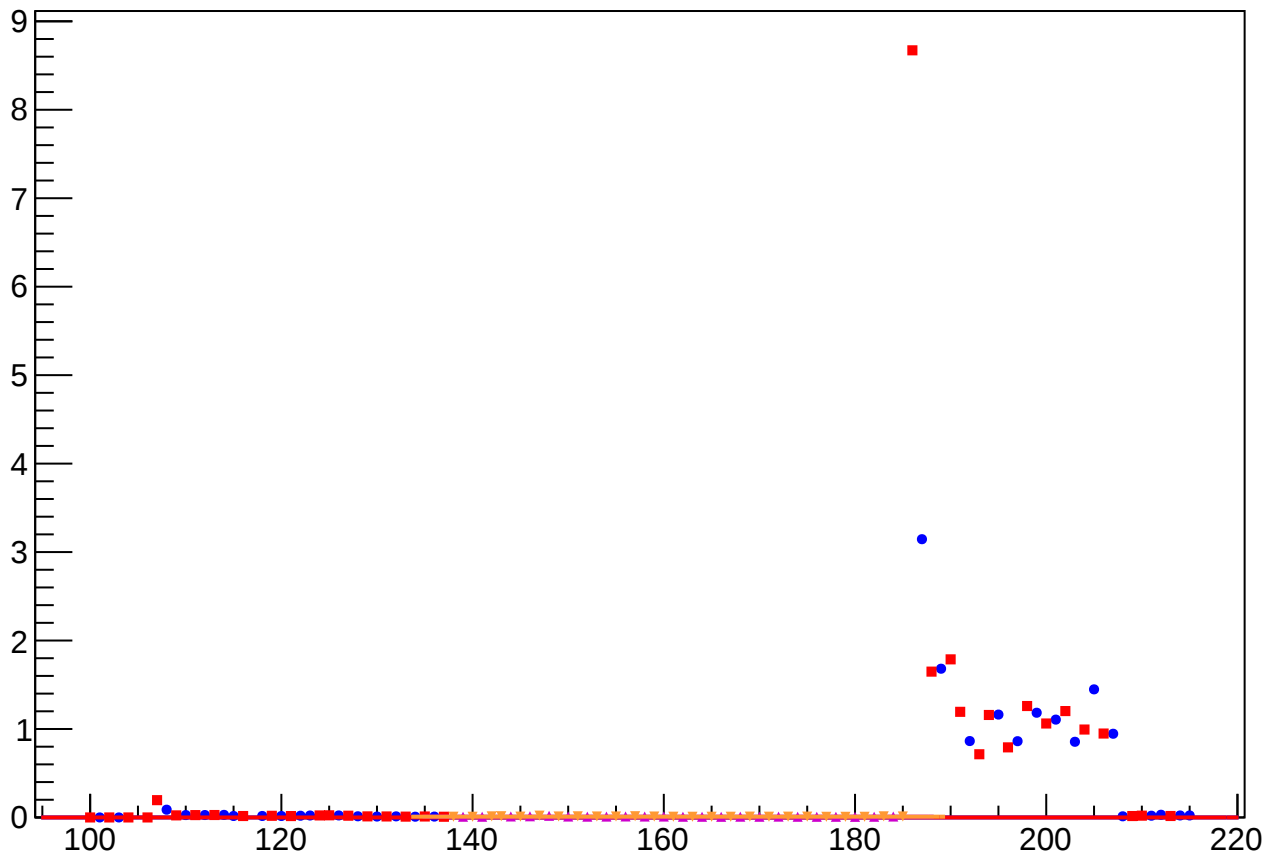
Right: 3.040+/-0.000 χ^2/NDF : 1382372128343056.8

In: 3.560+/-0.000 χ^2/NDF : 4204471152711.8/54

Out: 2.581+/-0.000 χ^2/NDF : 1255771347093987.8

All: 3.038+/-0.000 χ^2/NDF : 13880584475329

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27099456.2/31

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26942214.3/33

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

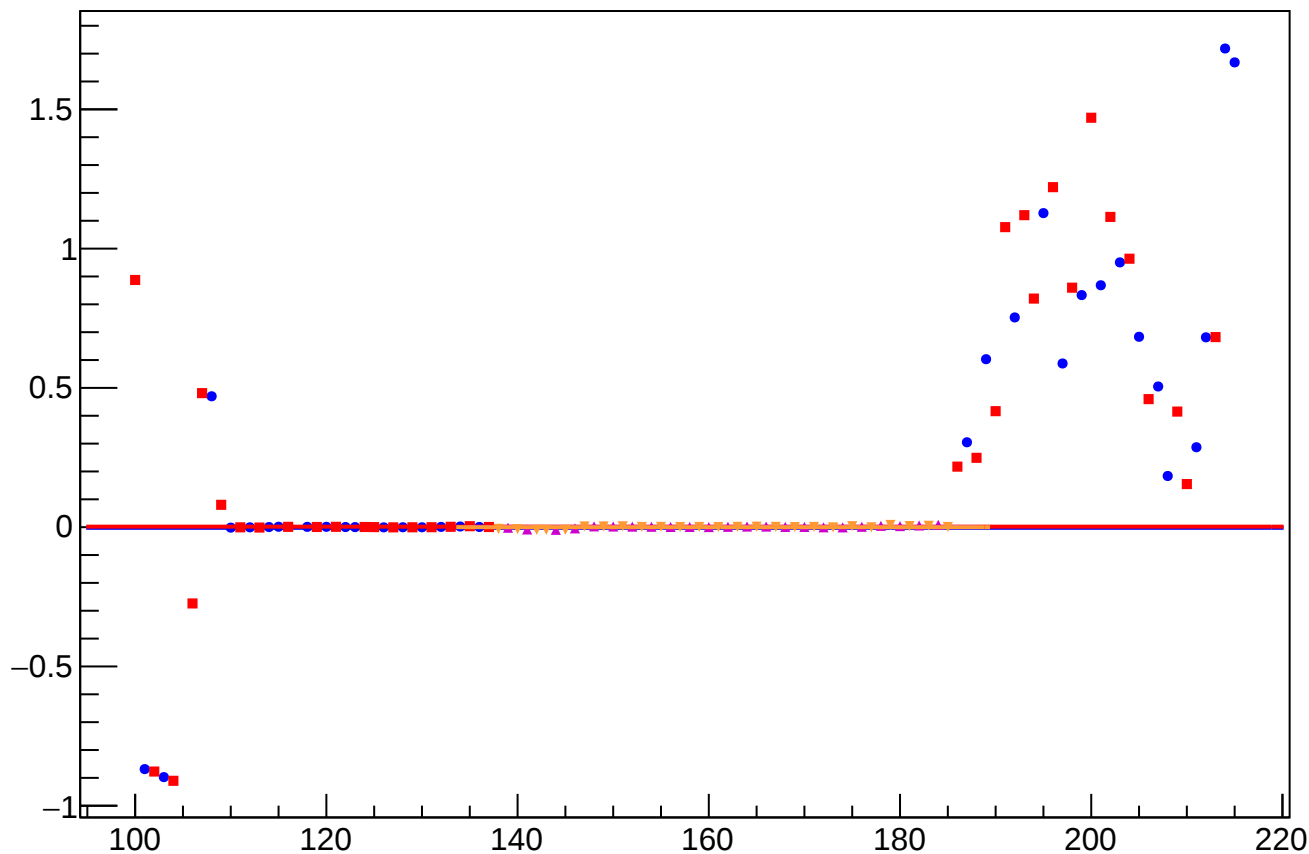
Right: 0.000+/-0.000 χ^2/NDF : 54042050.0/65

In: 0.000+/-0.000 χ^2/NDF :56631814.6/54

Out: 0.000+/-0.000 χ^2/NDF :58358141.4/58

All: 0.000+/-0.000 χ^2/NDF : 114990866.9/113

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797769609.7/31

Left: 0.000 ± 0.000 χ^2/NDF : 254436385.6/47

Left Out: -0.000 ± 0.000

χ^2/NDF : 151482851.1/24

Right: -0.000 ± 0.000 χ^2/NDF : 12855284501.8/65

Right Out: 0.002 ± 0.000

χ^2/NDF : 3043746940.9/33

In: -0.000 ± 0.000 χ^2/NDF : 9910217432.5/54

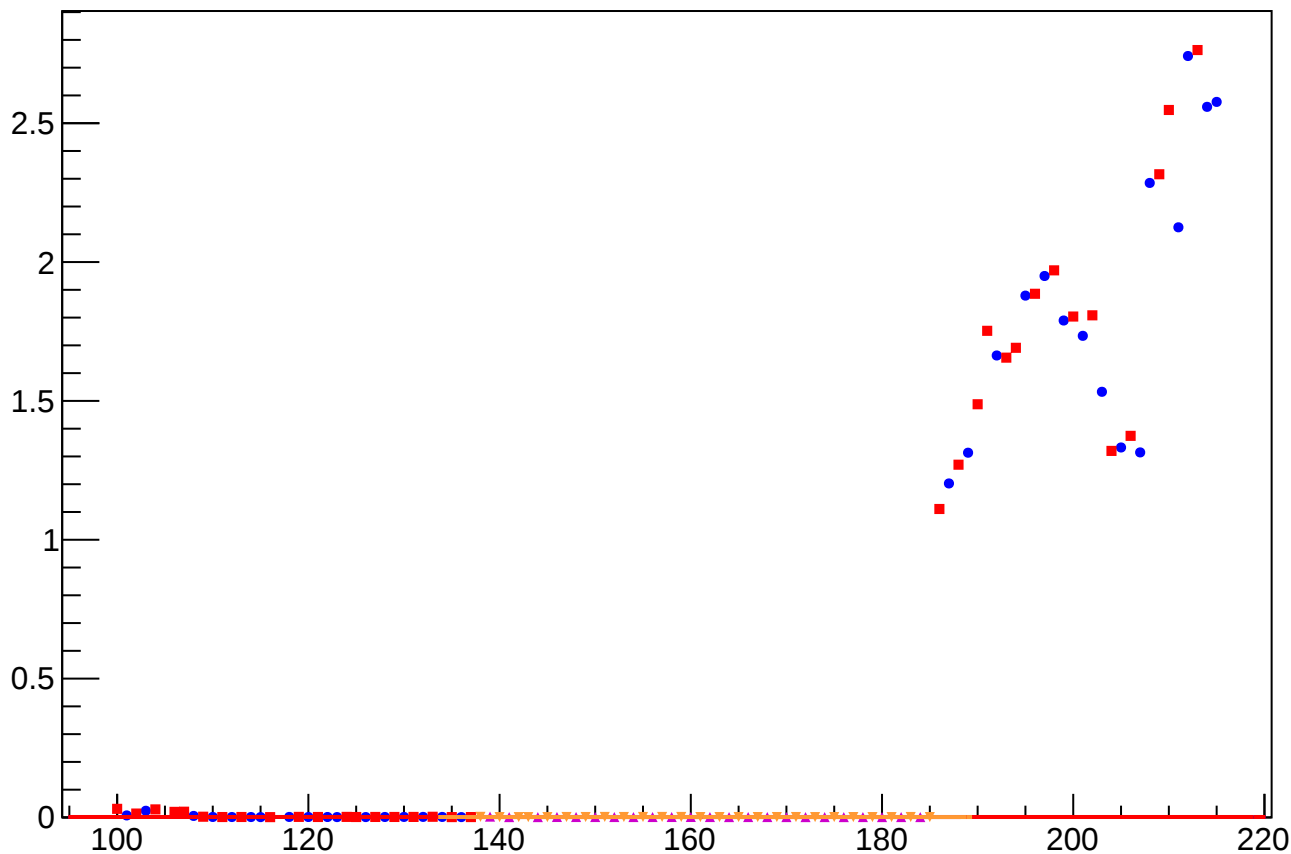
Out: 0.000 ± 0.000 χ^2/NDF : 3199964213.7/58

Left In: 0.001 ± 0.000

χ^2/NDF : 101439617.3/22

All: 0.000 ± 0.000 χ^2/NDF : 13110518565.9/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22637494.9/31

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 22698185.4/33

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

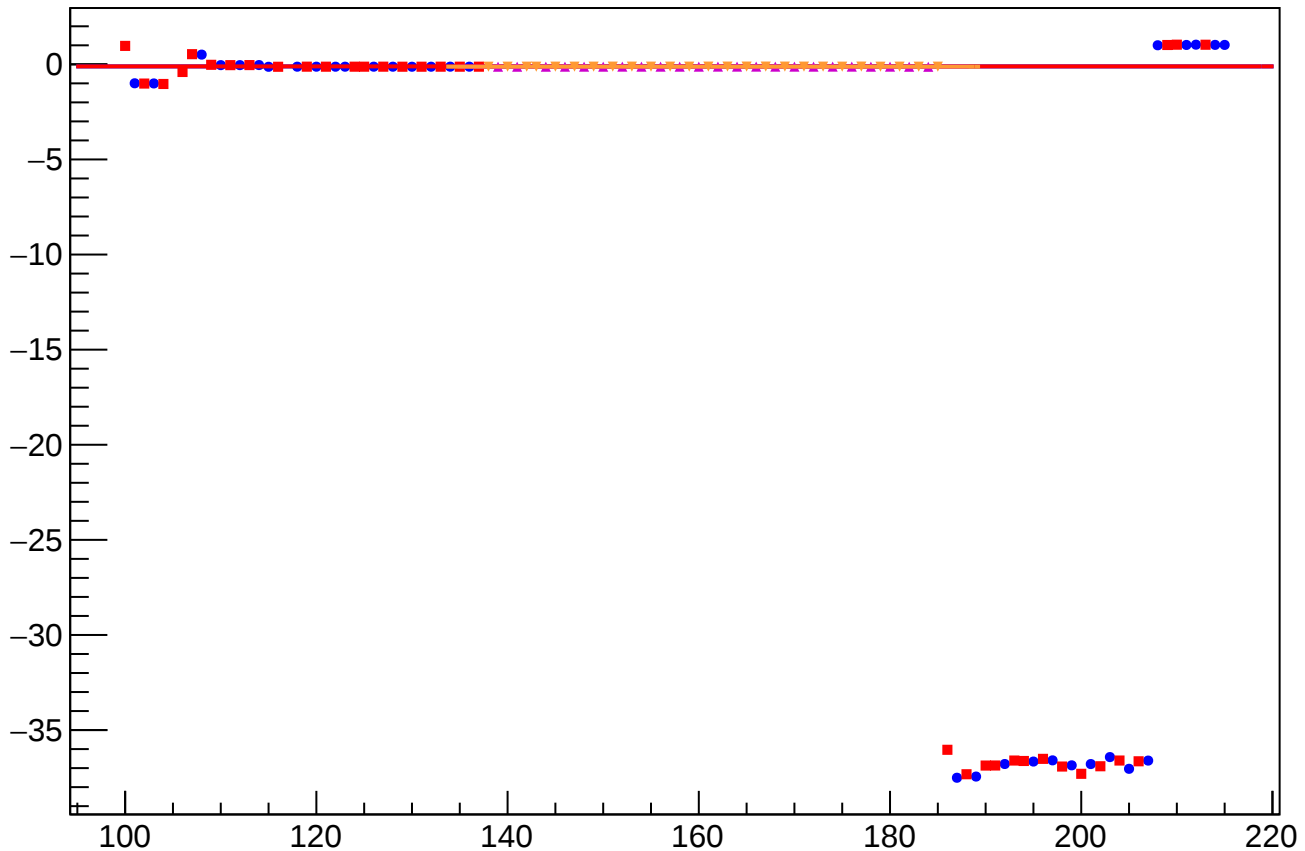
Right: 0.002+/-0.000 χ^2/NDF : 45344134.6/65

In: 0.002+/-0.000 χ^2/NDF : 23315968.0/54

Out: 0.002+/-0.000 χ^2/NDF : 23377880.0/58

All: 0.002+/-0.000 χ^2/NDF : 46694773.1/113

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.109+/-0.000 χ^2/NDF : 92172198063.5/31

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.107+/-0.000 χ^2/NDF : 87770981460.9/33

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

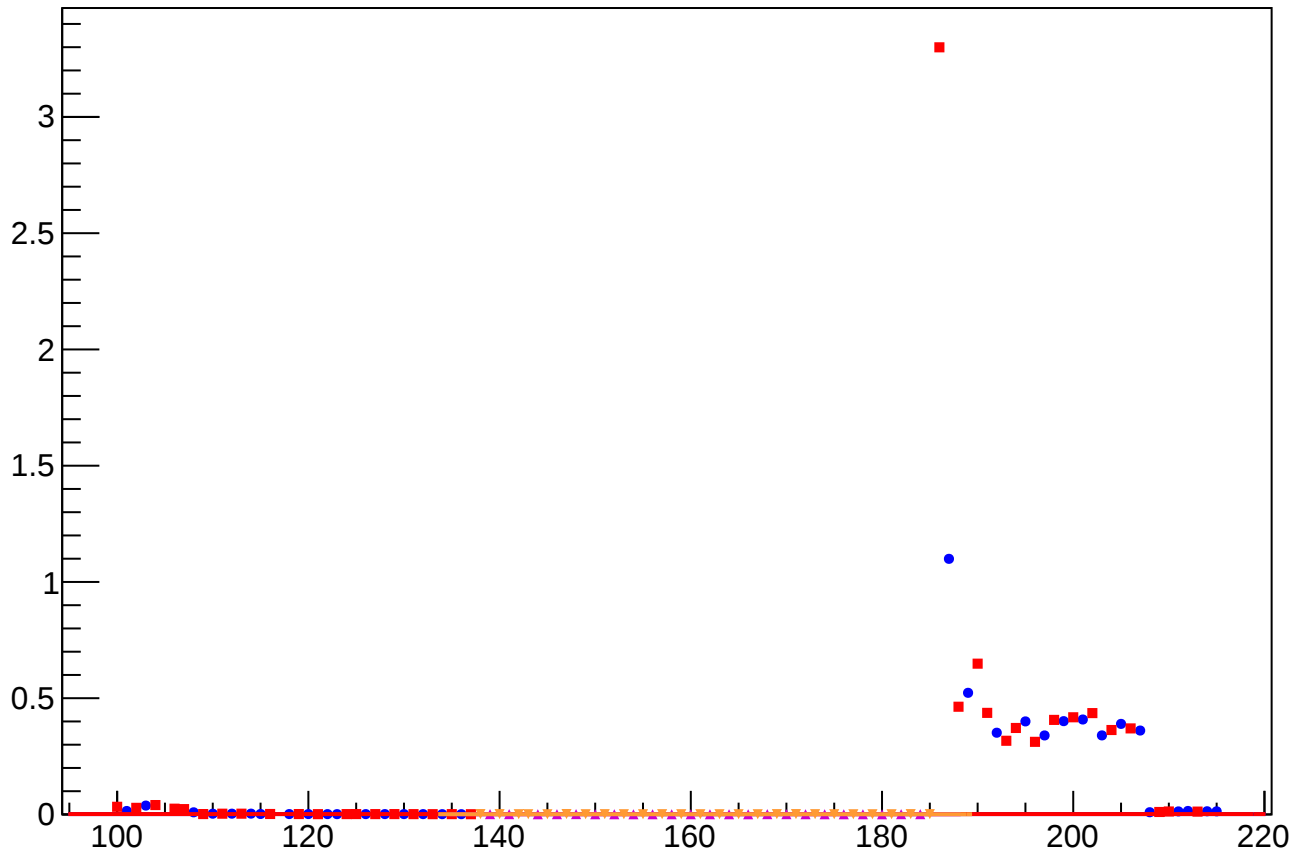
Right: -0.108+/-0.000 χ^2/NDF : 179945354059.2/65

In: -0.120+/-0.000 χ^2/NDF : 92471860477.5/54

Out: -0.120+/-0.000 χ^2/NDF : 88151560104.2/58

All: -0.120+/-0.000 χ^2/NDF : 180623496247.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 21268296.5/31

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21615882.4/33

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

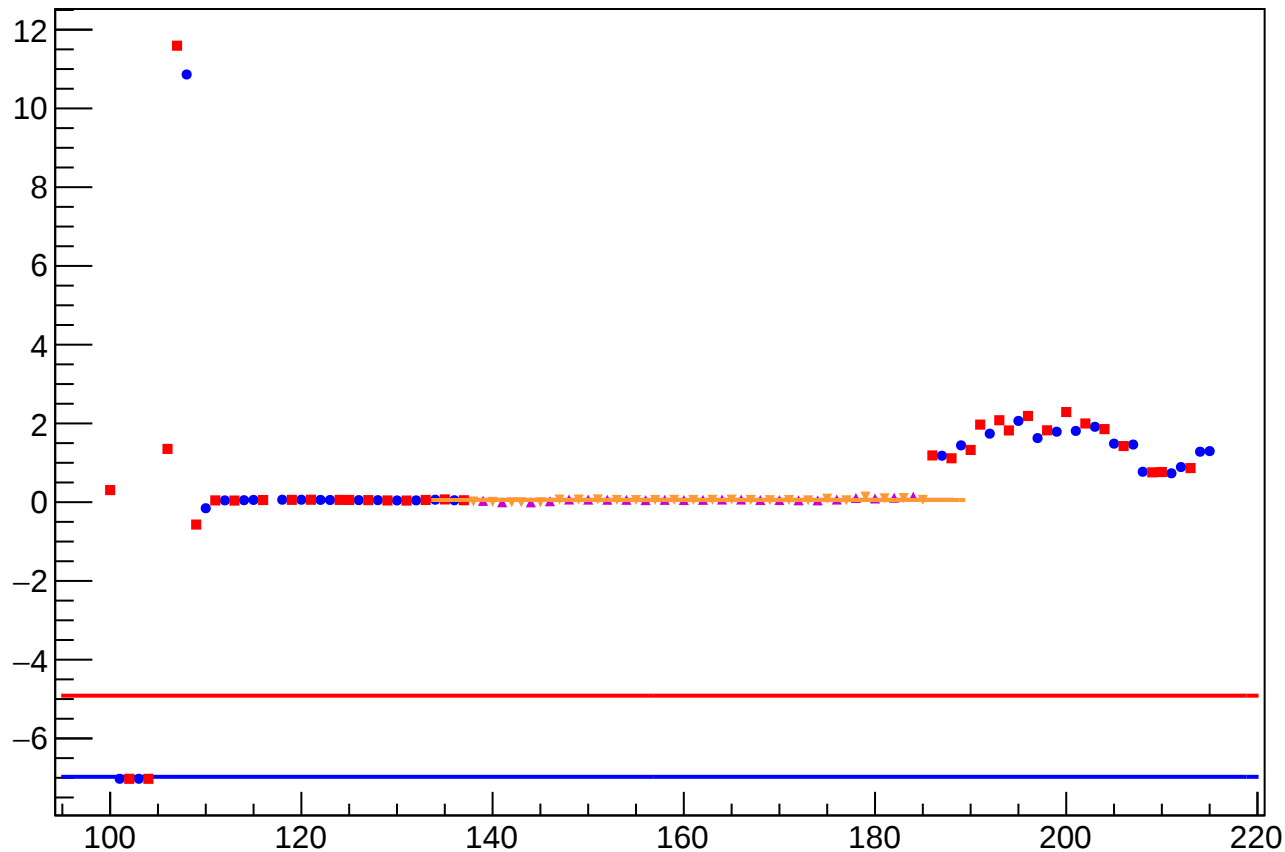
Right: 0.002+/-0.000 χ^2/NDF : 42888335.3/65

In: 0.001+/-0.000 χ^2/NDF :23954570.4/54

Out: 0.001+/-0.000 χ^2/NDF :24515216.2/58

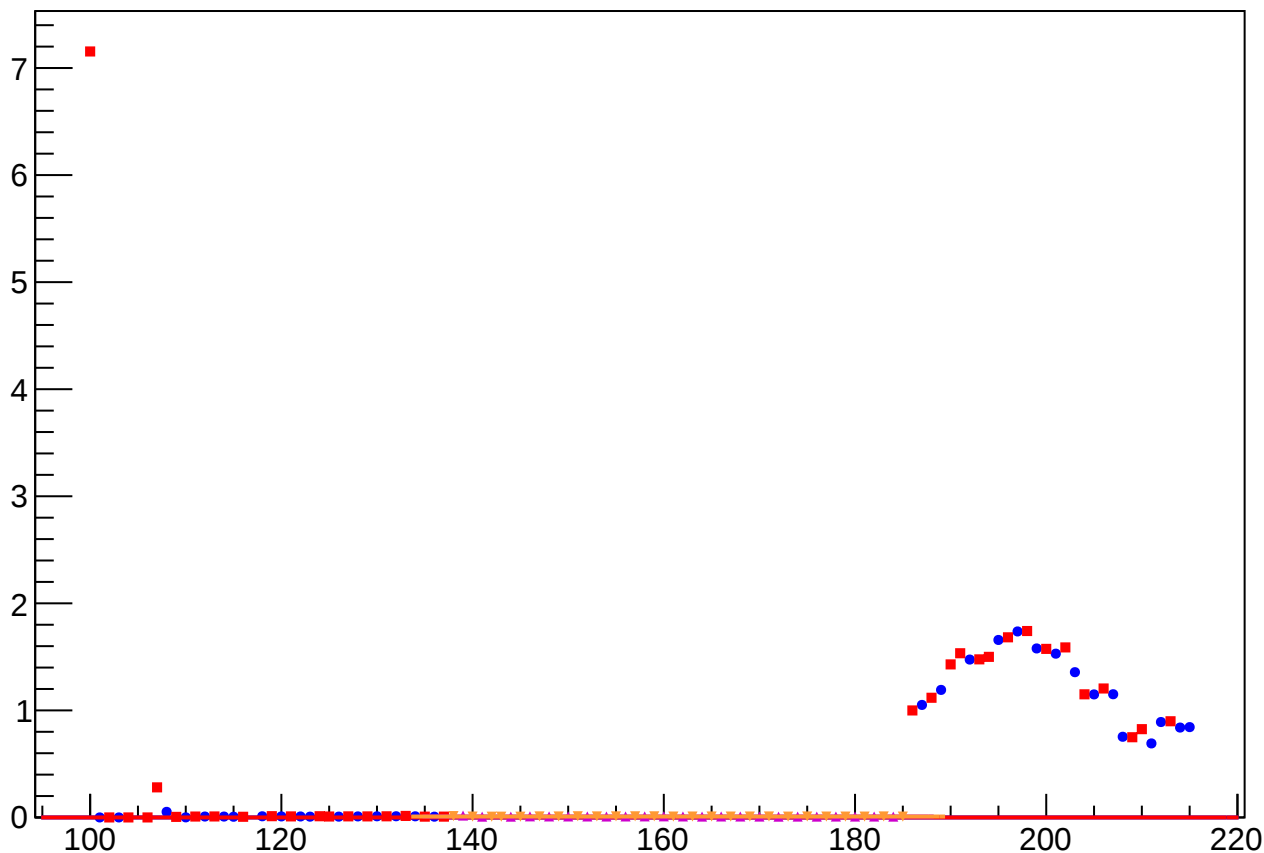
All: 0.001+/-0.000 χ^2/NDF : 48474870.6/113

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797972349608.9/31
 Left Out: 0.055+/-0.000 χ^2/NDF : 243682351.4/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352939436107.6/33
 Left In: 0.059+/-0.000 χ^2/NDF : 178541521.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423736513.4/47
 Right: -5.900+/-0.000 χ^2/NDF : 430334110417744.8
 In: -6.926+/-0.000 χ^2/NDF : 17553485502092.0/54
 Out: -4.879+/-0.000 χ^2/NDF : 370165501025028.1
 All: -5.858+/-0.000 χ^2/NDF : 4435293951040

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000 +/- 0.000 χ^2/NDF : 29091034.5/31

Left Out: 0.009 +/- 0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000 +/- 0.000 χ^2/NDF : 28485107.5/33

Left In: 0.009 +/- 0.000 χ^2/NDF : 602517.2/22

Left: 0.009 +/- 0.000 χ^2/NDF : 1122225.0/47

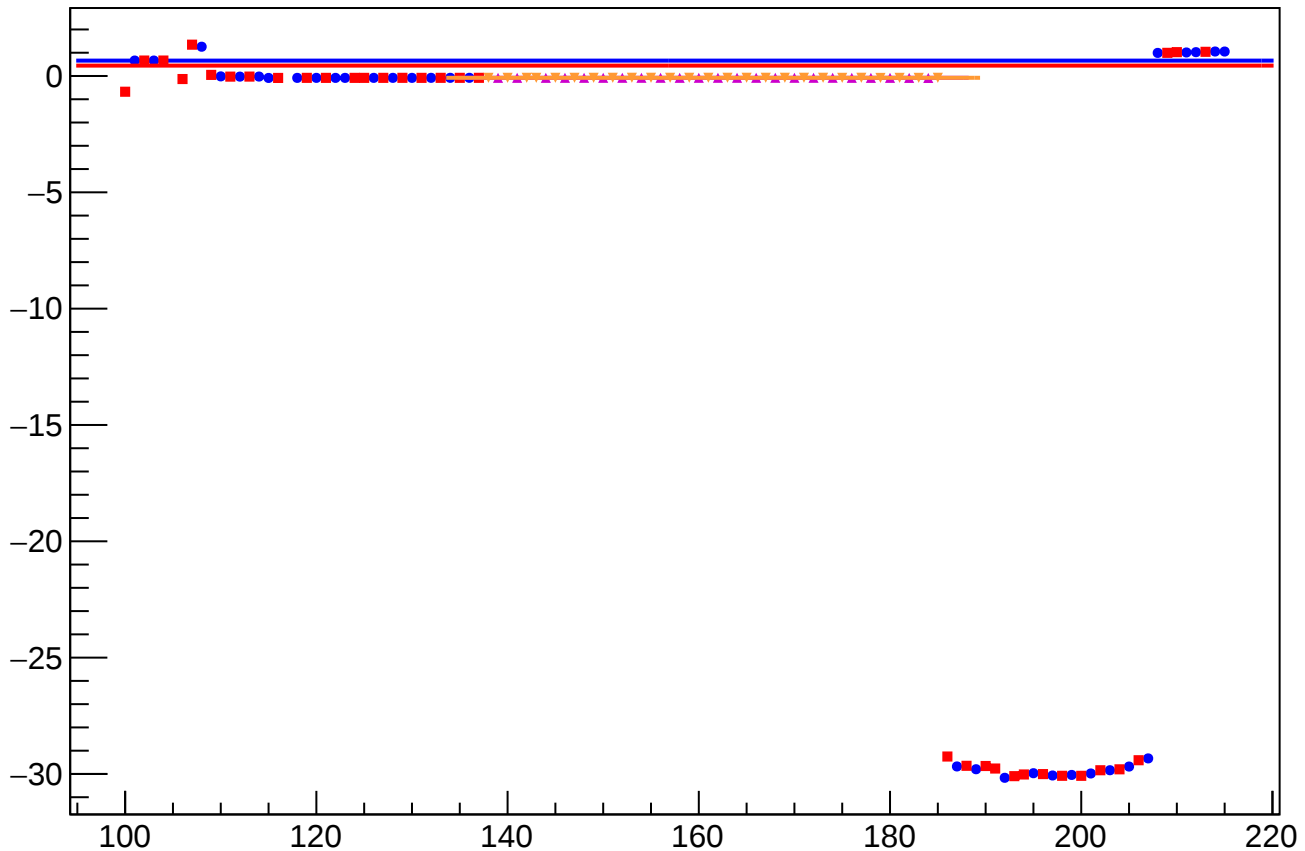
Right: 0.000 +/- 0.000 χ^2/NDF : 57576506.6/65

In: 0.000 +/- 0.000 χ^2/NDF : 56507760.4/54

Out: 0.000 +/- 0.000 χ^2/NDF : 57428450.3/58

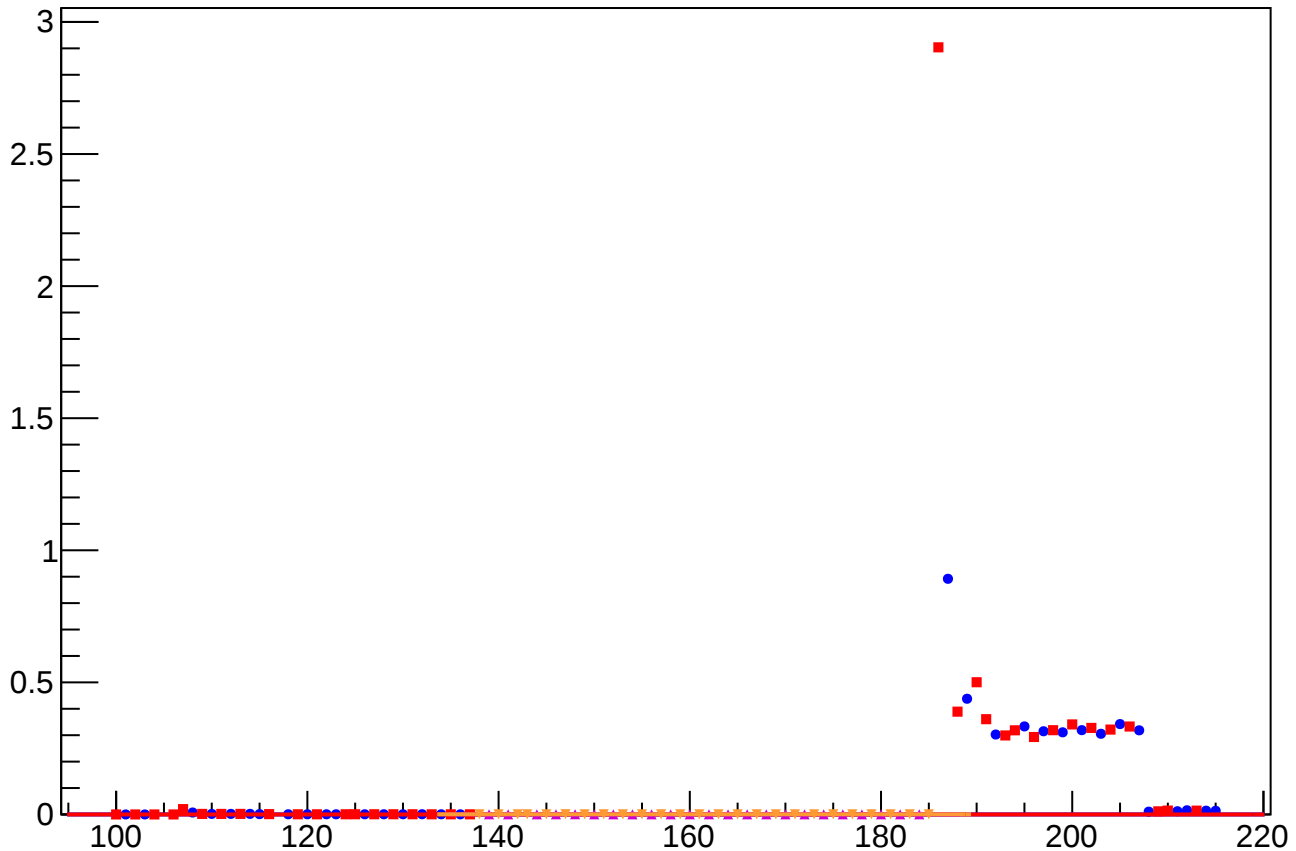
All: 0.000 +/- 0.000 χ^2/NDF : 113936694.6/113

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5721815407373.9/31	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 : 474129972218226.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405494269861149.1/33	In: 0.647+/-0.000	χ^2/NDF : 33762705556688.5/54
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420655482557735.9/5
		All: 0.537+/-0.000	χ^2/NDF : 51597472310750

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30484525.1/31

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29048800.9/33

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

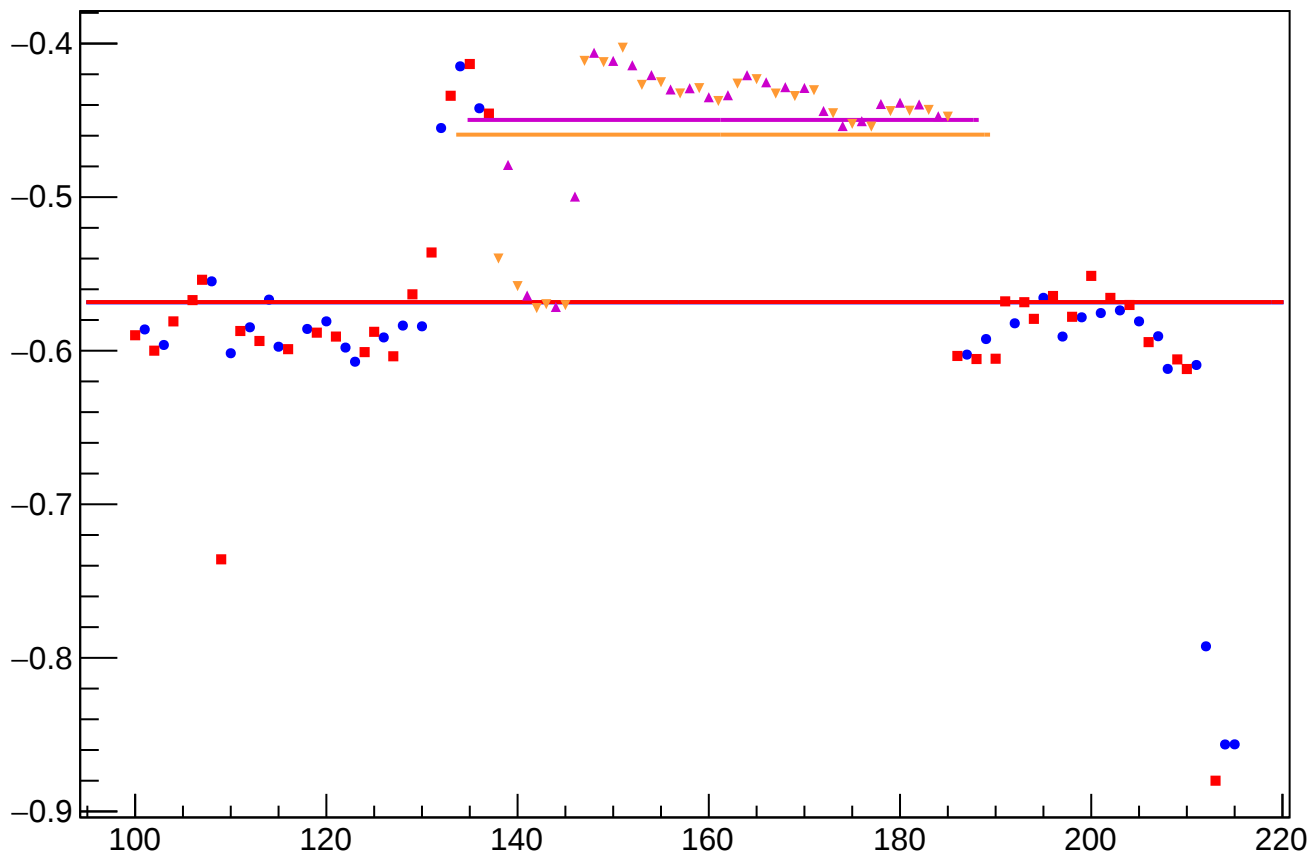
Right: 0.000+/-0.000 χ^2/NDF : 59533365.5/65

In: 0.000+/-0.000 χ^2/NDF : 61205763.1/54

Out: 0.000+/-0.000 χ^2/NDF : 61663444.2/58

All: 0.000+/-0.000 χ^2/NDF : 122869632.7/113

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.569+/-0.000 χ^2/NDF : 104938219.8/31

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.568+/-0.000 χ^2/NDF : 88888204.3/33

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

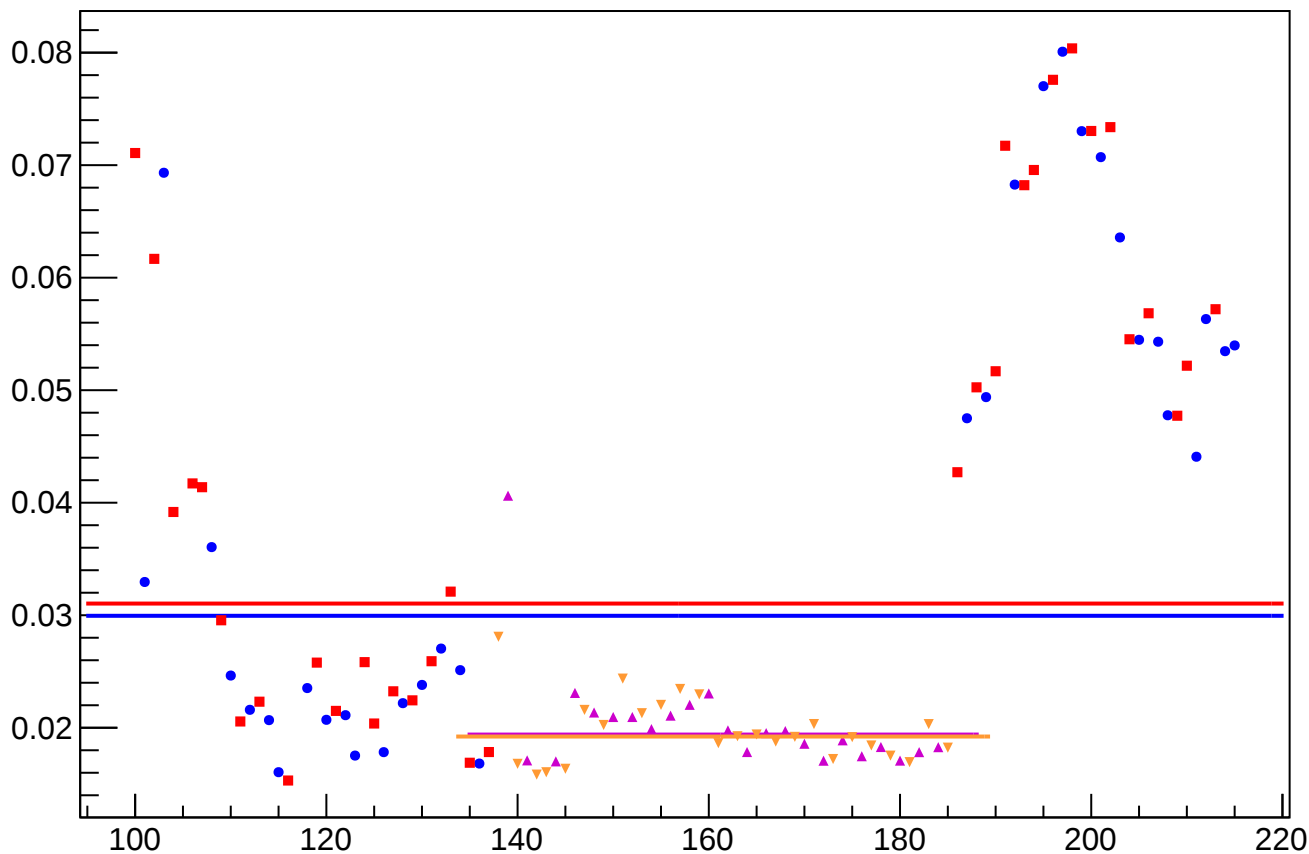
Right: -0.568+/-0.000 χ^2/NDF : 193826685.4/65

In: -0.482+/-0.000 χ^2/NDF : 321479090.1/54

Out: -0.485+/-0.000 χ^2/NDF : 316637957.5/58

All: -0.484+/-0.000 χ^2/NDF : 638488632.8/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7521271.8/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 501711.6/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7178050.8/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

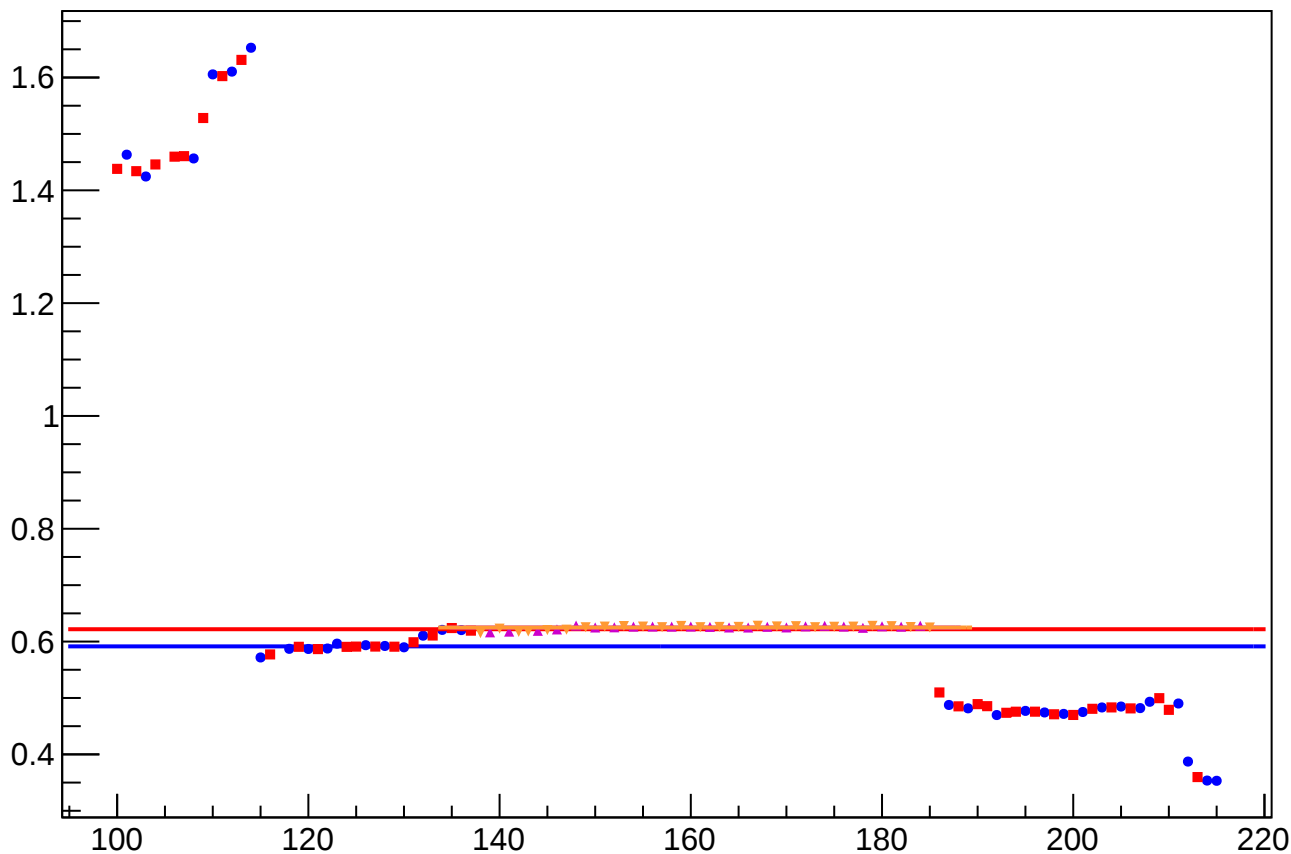
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14714807.1/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF: 10364667.1/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 10362541.9/58

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 20728882.2/113

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.591+/-0.000 χ^2/NDF : 5489624932.0/31

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.622+/-0.000 χ^2/NDF : 6321067552.2/33

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

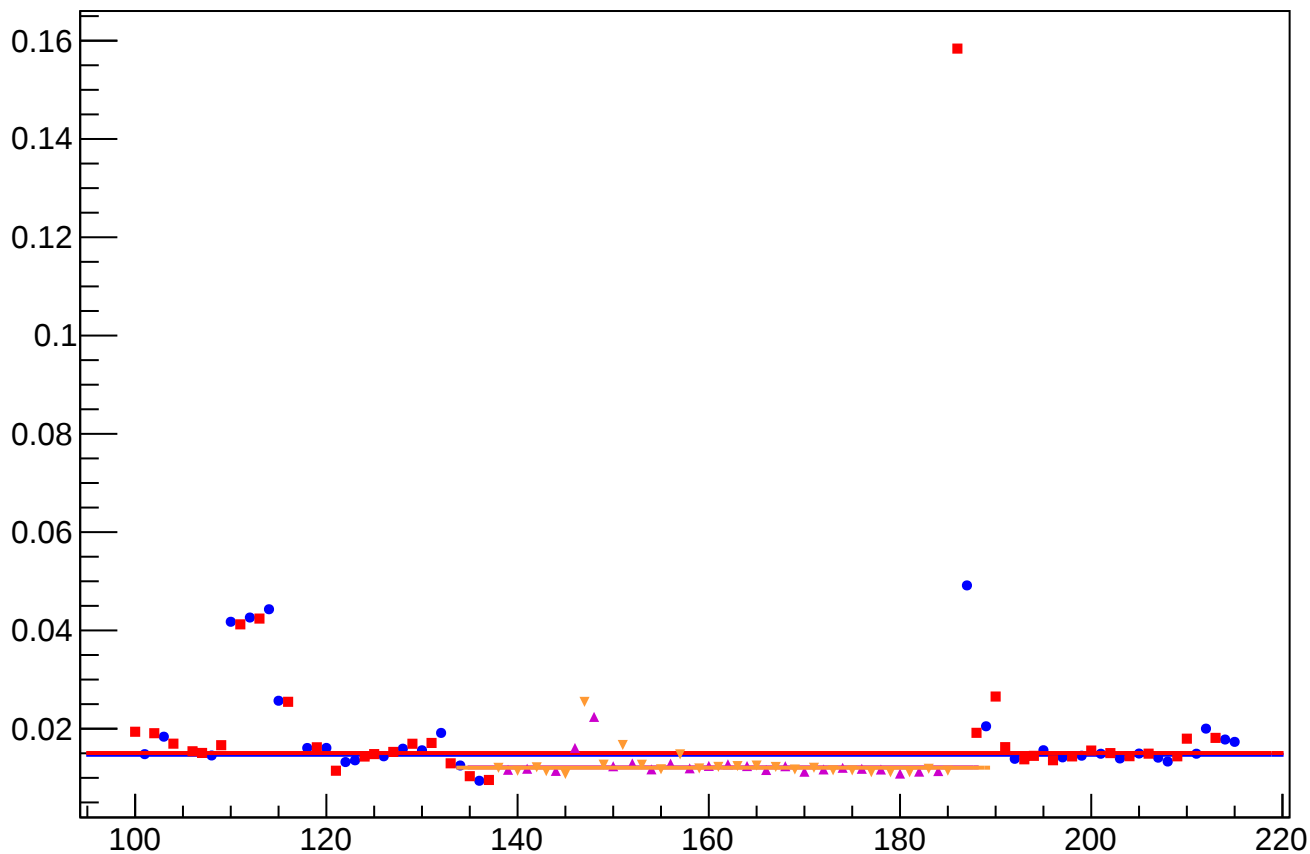
Right: 0.606+/-0.000 χ^2/NDF : 11843057757.3/65

In: 0.612+/-0.000 χ^2/NDF :5540006728.2/54

Out: 0.624+/-0.000 χ^2/NDF :6322911610.0/58

All: 0.618+/-0.000 χ^2/NDF : 11876468014.3/117

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1842741.3/31

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2162730.5/33

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

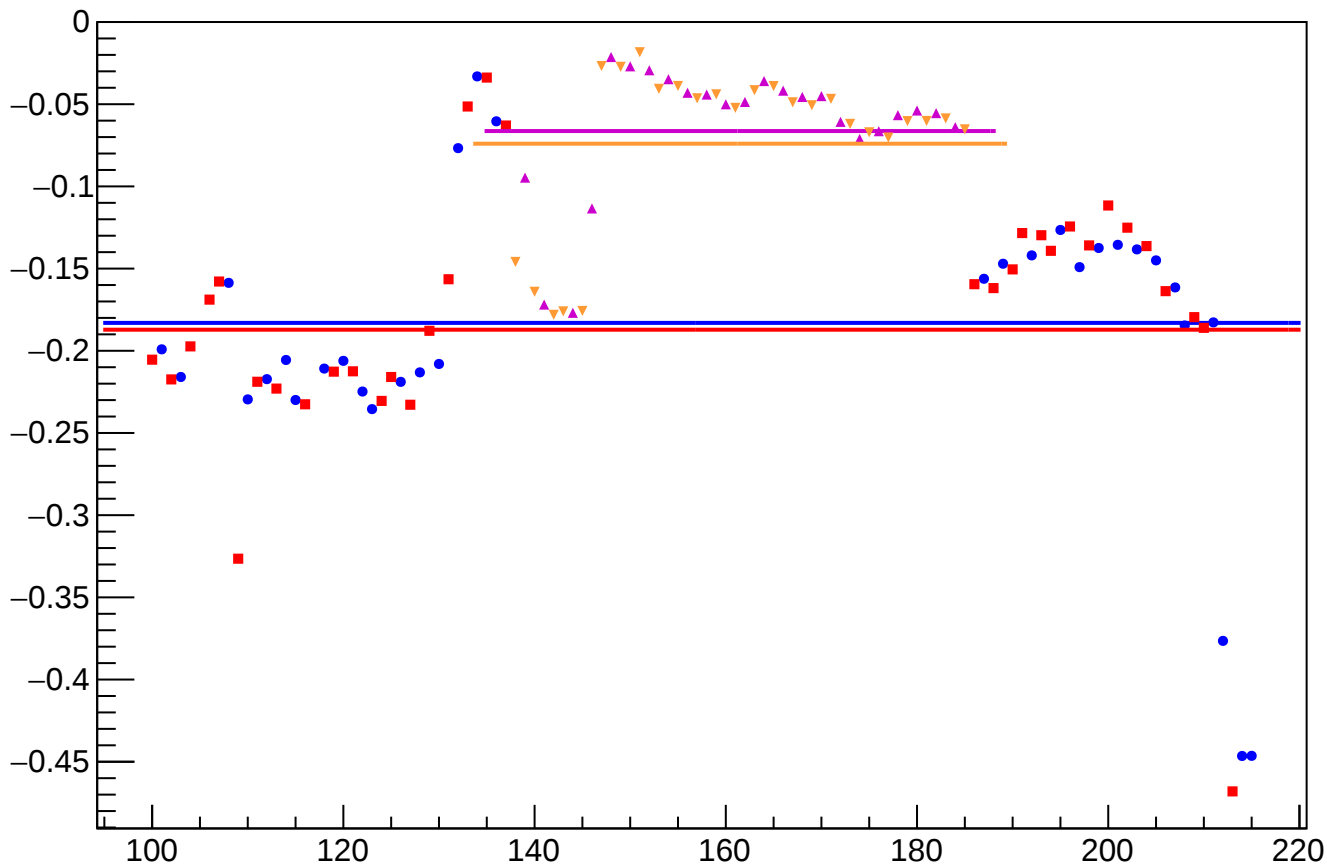
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4014401.2/65

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2911741.5/54

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3591781.7/58

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6503525.1/113

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.183 ± 0.000 $\chi^2/\text{NDF}: 119736484.1/31$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107676601.9/24$

Right Out: -0.187 ± 0.000 $\chi^2/\text{NDF}: 106646484.8/33$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76243051.8/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185076997.5/47$

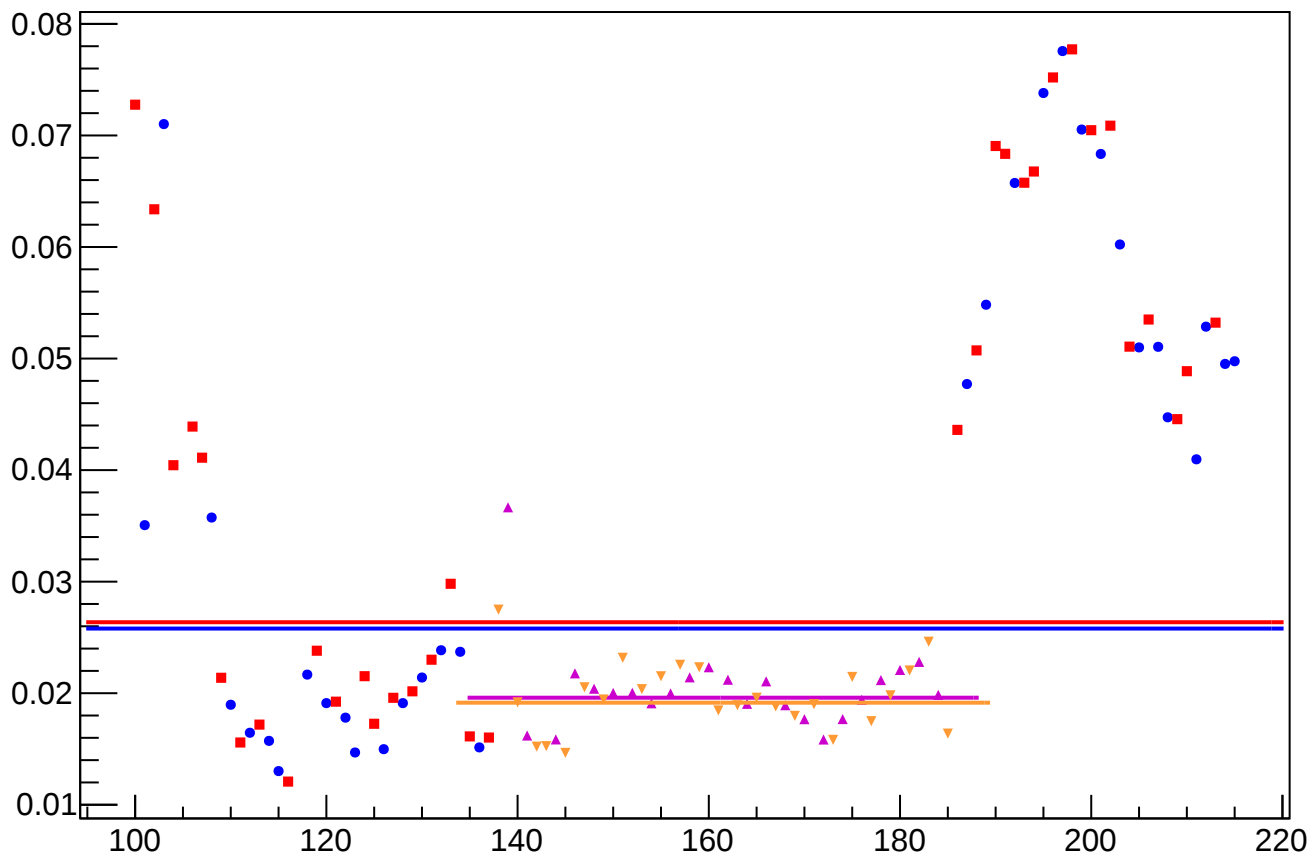
Right: -0.185 ± 0.000 $\chi^2/\text{NDF}: 226527889.7/65$

In: -0.104 ± 0.000 $\chi^2/\text{NDF}: 357300141.3/54$

Out: -0.106 ± 0.000 $\chi^2/\text{NDF}: 364270480.3/58$

All: -0.105 ± 0.000 $\chi^2/\text{NDF}: 721774044.0/11$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 8800718.7/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 8762430.9/33

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

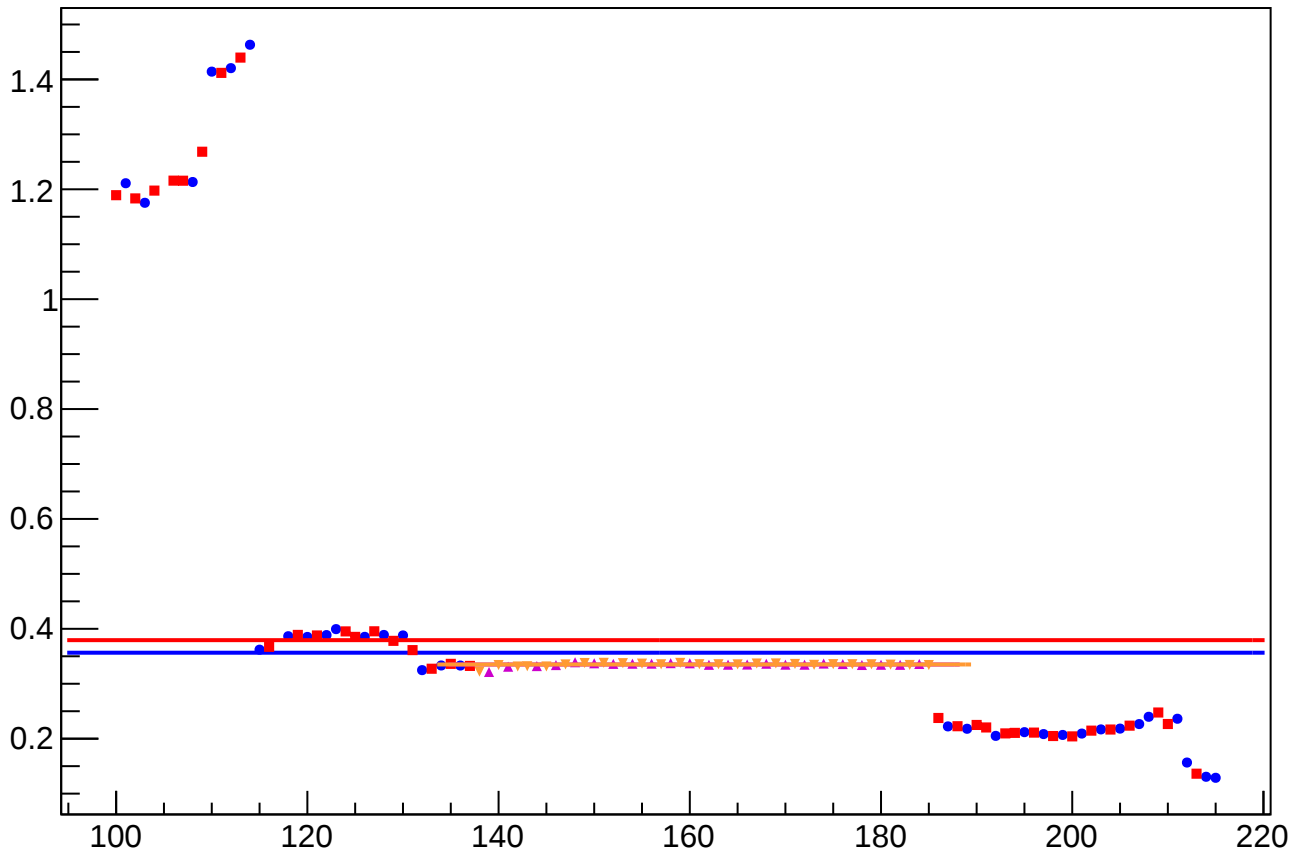
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 17568587.2/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10333802.6/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:10622449.2/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 20963930.4/113

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.356+/-0.000 χ^2/NDF : 7928563019.6/31

Left Out: 0.335+/-0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.379+/-0.000 χ^2/NDF : 8819507193.5/33

Left In: 0.335+/-0.000 χ^2/NDF : 1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

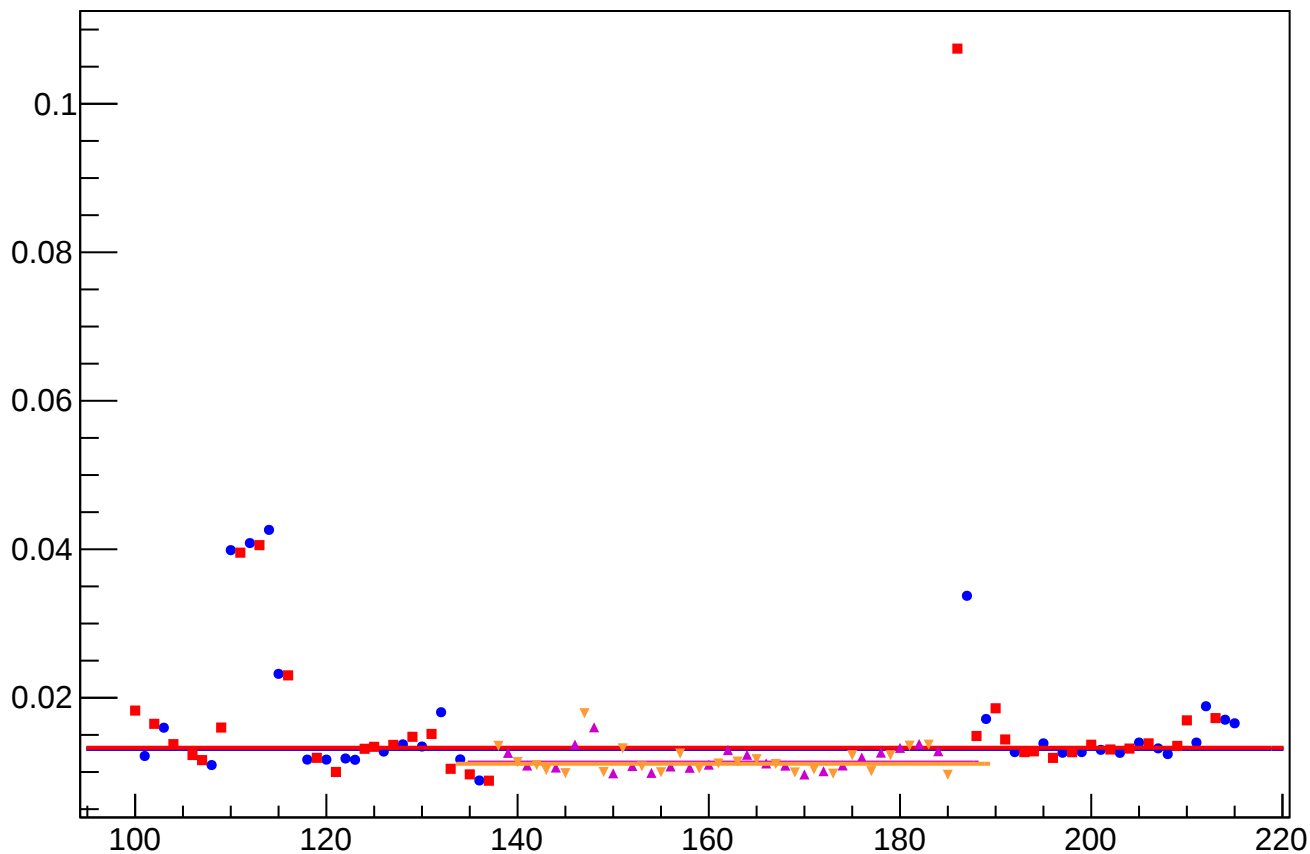
Right: 0.368+/-0.000 χ^2/NDF : 16771271949.2/65

In: 0.344+/-0.000 χ^2/NDF : 7954480559.3/54

Out: 0.352+/-0.000 χ^2/NDF : 8925891240.6/58

All: 0.348+/-0.000 χ^2/NDF : 16887605245.9/1

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1827159.0/31

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2094321.5/33

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

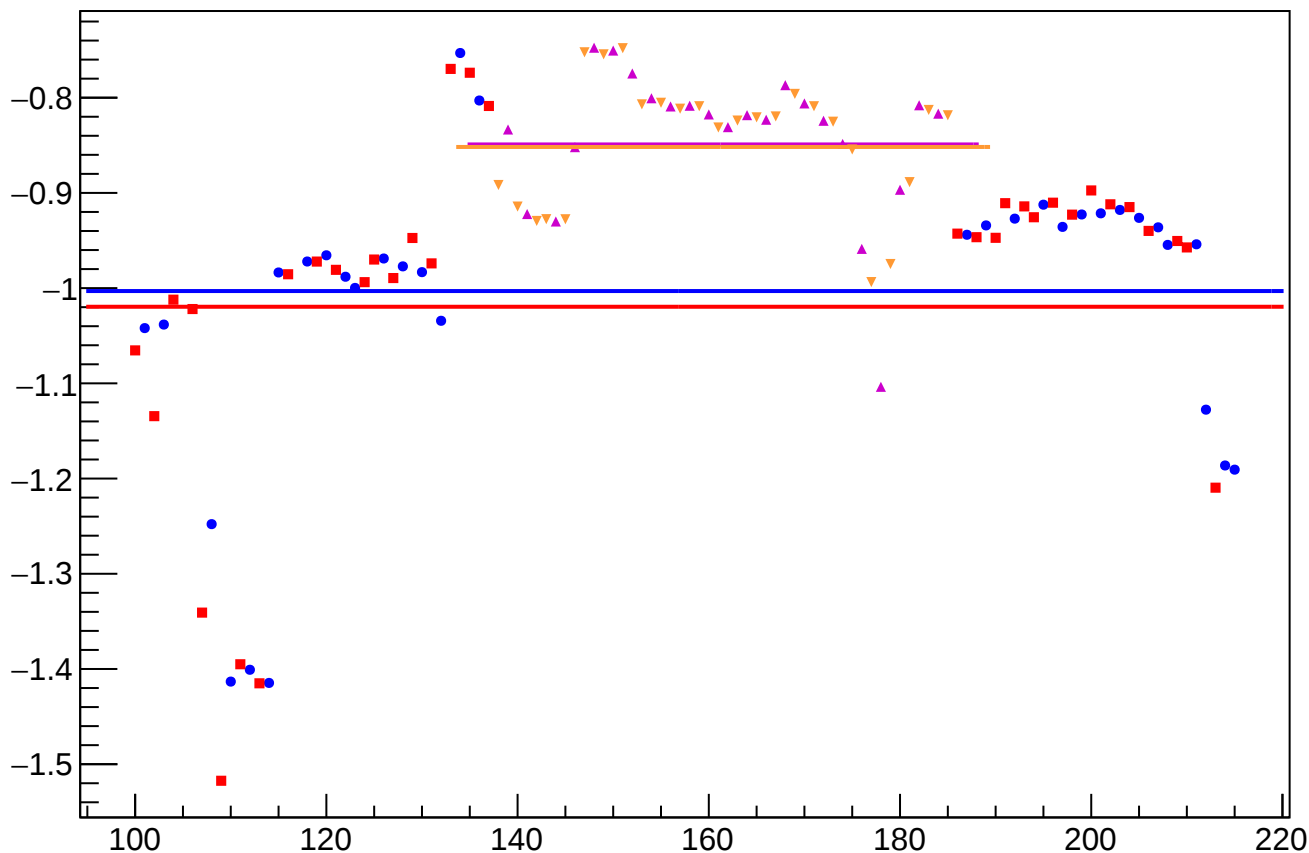
Right: 0.013+/-0.000 χ^2/NDF : 3923685.3/65

In: 0.012+/-0.000 χ^2/NDF : 2692055.6/54

Out: 0.012+/-0.000 χ^2/NDF : 3201969.1/58

All: 0.012+/-0.000 χ^2/NDF : 5896258.4/113

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003 ± 0.000 $\chi^2/\text{NDF}: 427056306.3/31$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.020 ± 0.000 $\chi^2/\text{NDF}: 568645599.1/33$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

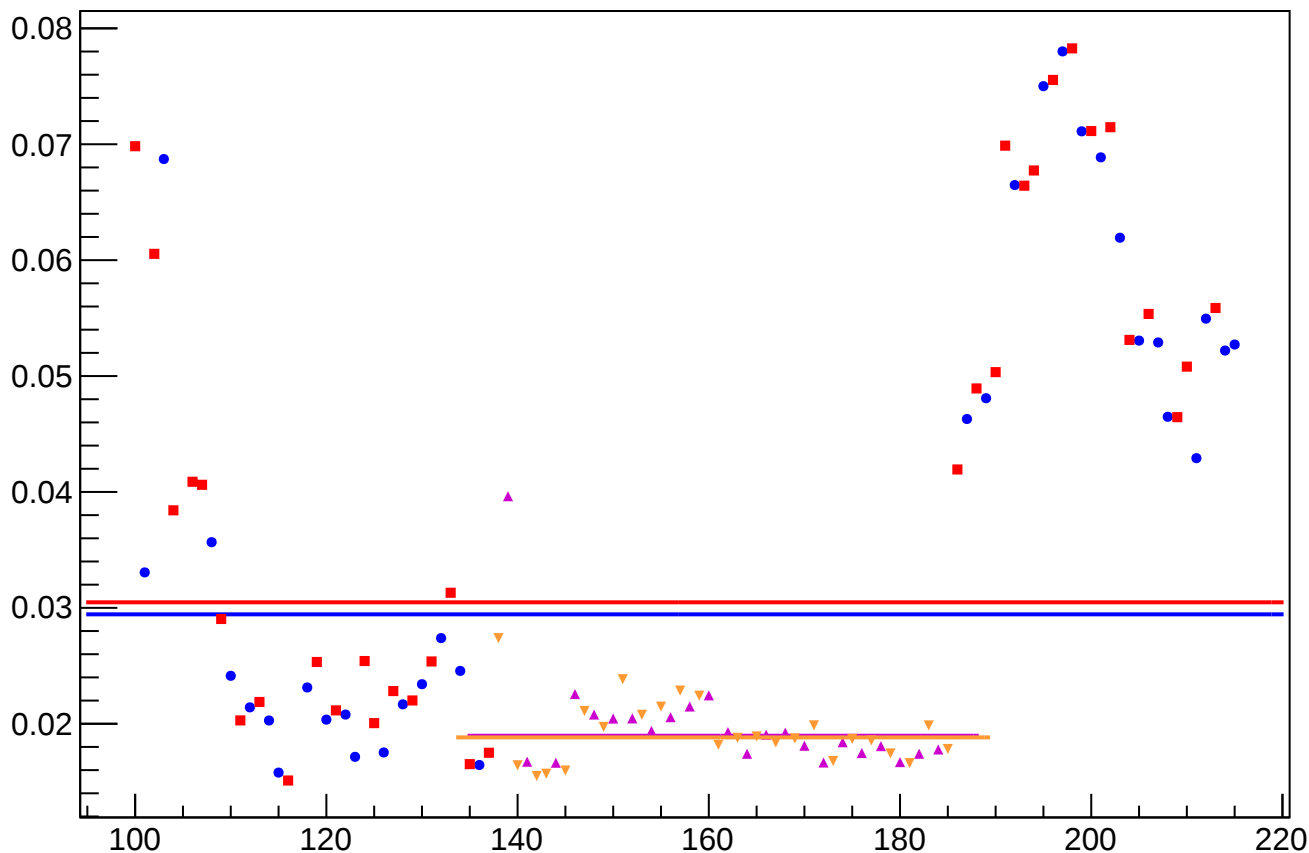
Right: -1.011 ± 0.000 $\chi^2/\text{NDF}: 997551540.5/65$

In: -0.890 ± 0.000 $\chi^2/\text{NDF}: 928750987.8/54$

Out: -0.892 ± 0.000 $\chi^2/\text{NDF}: 1039014511.2/58$

All: -0.891 ± 0.000 $\chi^2/\text{NDF}: 1967838636.4/110$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 7456906.8/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.030 $\pm$ 0.000 χ^2 /NDF: 7099703.1/33

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

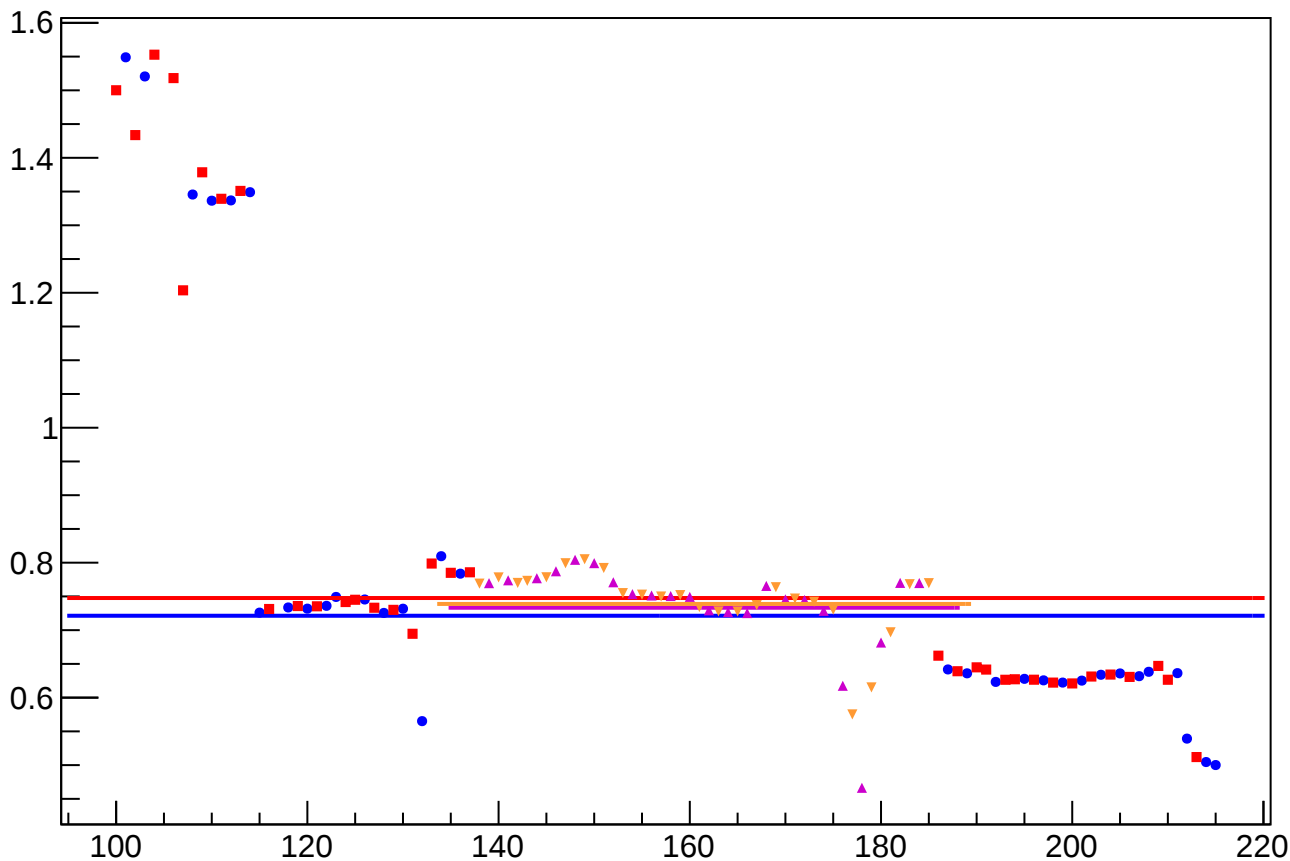
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14571230.3/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10342345.7/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:10303654.8/58

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 20647301.5/113

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.721+/-0.000 χ^2/NDF : 3822617241.3/31

Left Out: 0.739+/-0.000 χ^2/NDF : 333013236.5/24

Right Out: 0.748+/-0.000 χ^2/NDF : 3969360937.7/33

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 904456968.5/47

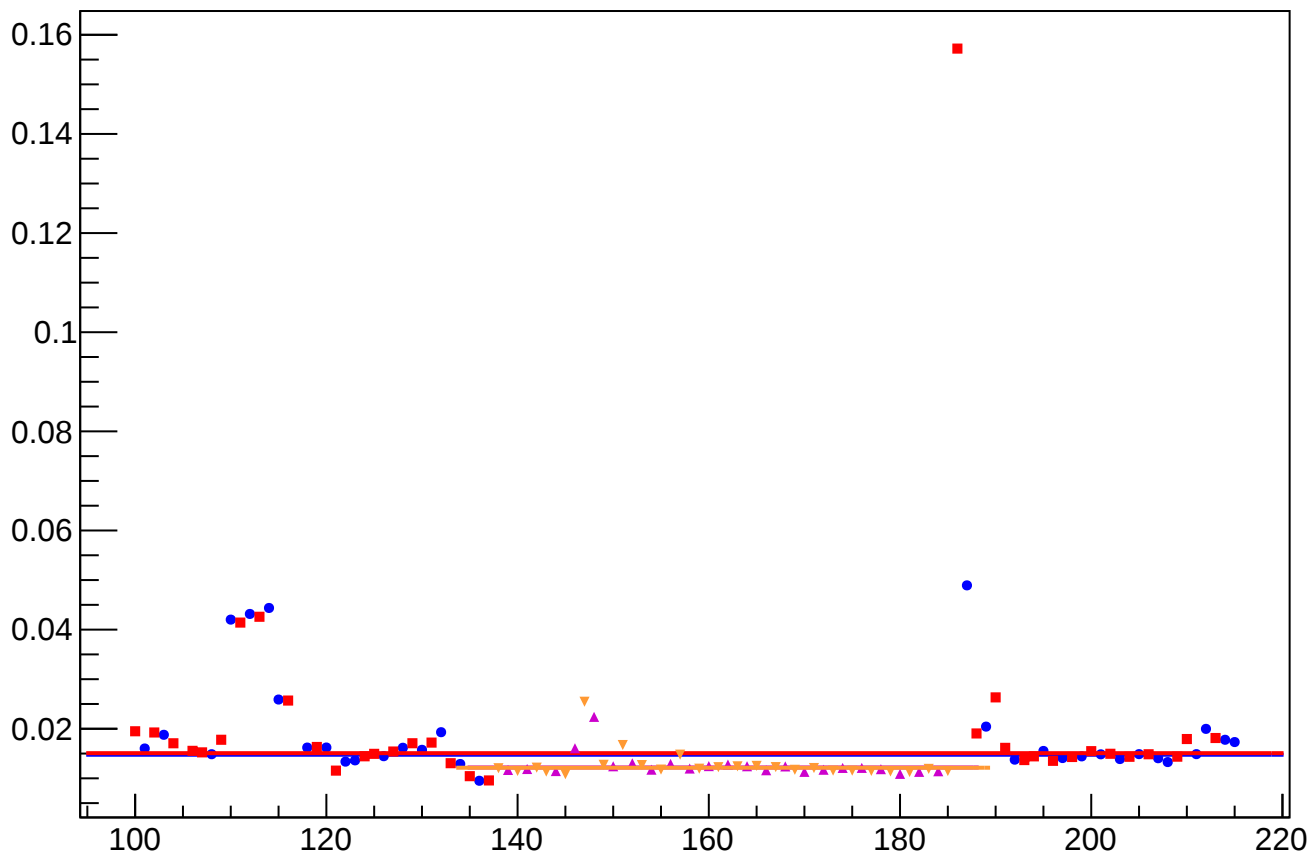
Right: 0.734+/-0.000 χ^2/NDF : 7815985507.0/65

In: 0.729+/-0.000 χ^2/NDF : 4398407935.0/54

Out: 0.742+/-0.000 χ^2/NDF : 4305688625.2/58

All: 0.735+/-0.000 χ^2/NDF : 8720817230.0/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1836951.7/31

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2164625.9/33

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

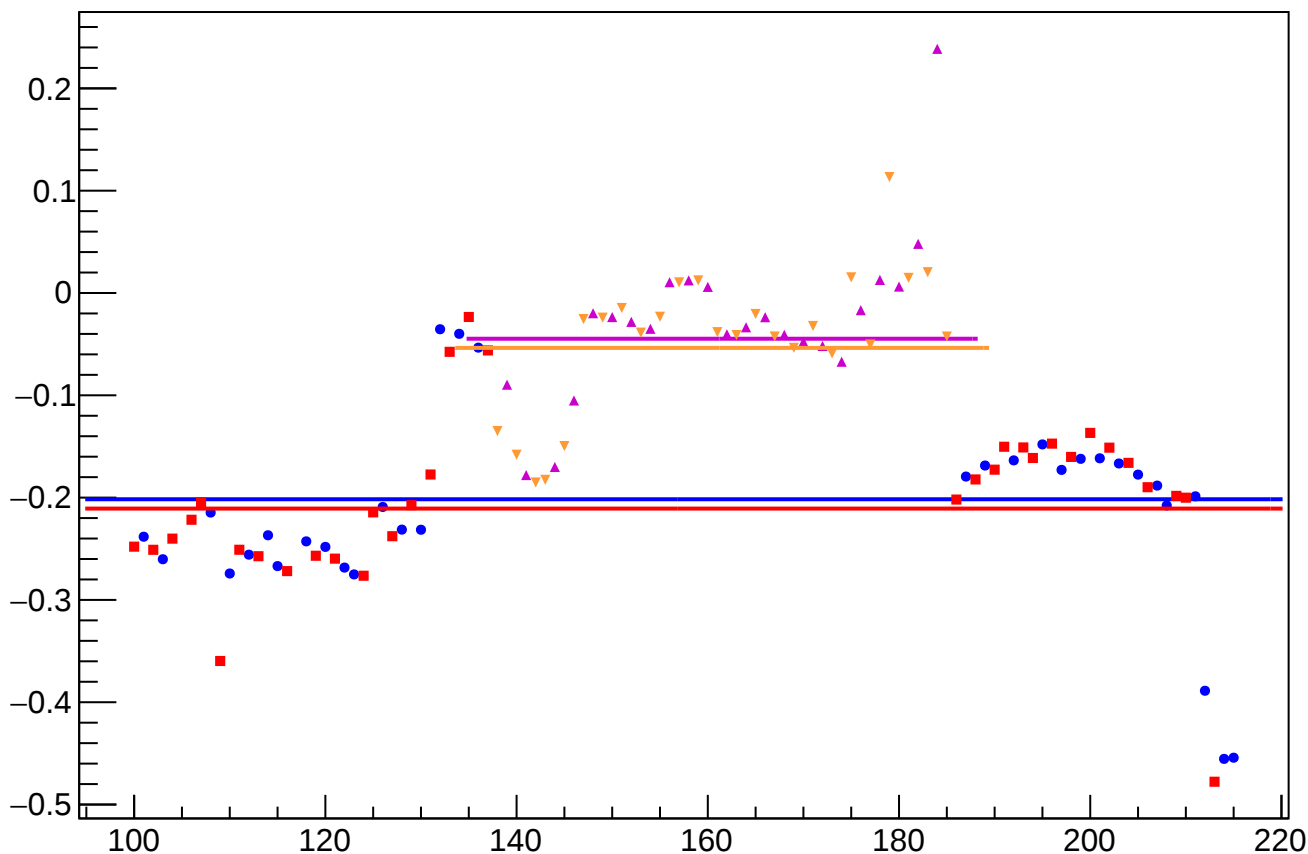
Right: 0.015+/-0.000 χ^2/NDF : 4008677.3/65

In: 0.013+/-0.000 χ^2/NDF : 2896763.2/54

Out: 0.013+/-0.000 χ^2/NDF : 3545961.0/58

All: 0.013+/-0.000 χ^2/NDF : 6442727.5/113

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.202 ± 0.000 $\chi^2/\text{NDF}: 153527491.4/31$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 132531792.0/33$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

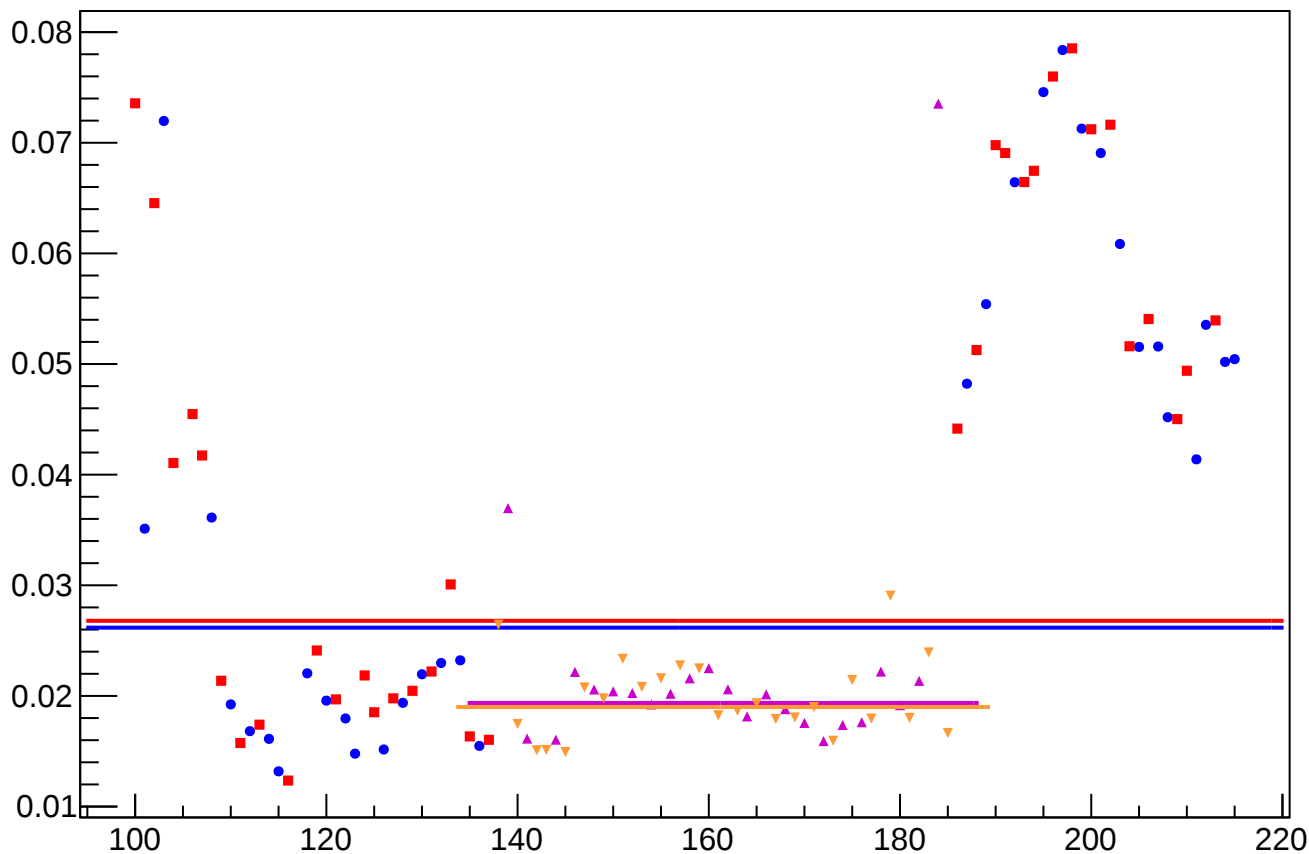
Right: -0.206 ± 0.000 $\chi^2/\text{NDF}: 286740189.1/65$

In: -0.094 ± 0.000 $\chi^2/\text{NDF}: 566477280.8/54$

Out: -0.098 ± 0.000 $\chi^2/\text{NDF}: 581734973.0/58$

All: -0.096 ± 0.000 $\chi^2/\text{NDF}: 1148625707.7/111$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 8737179.2/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:700229.7/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 8705642.4/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

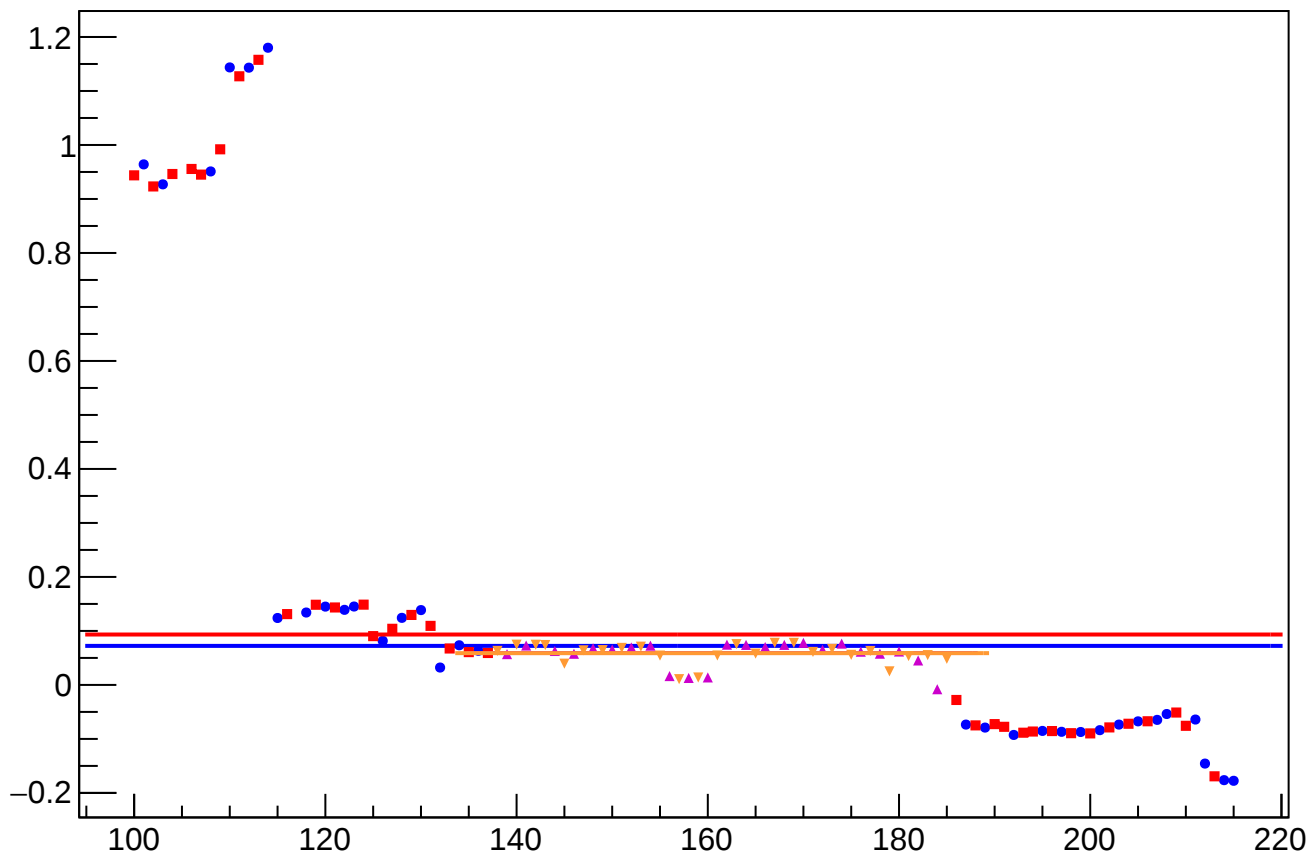
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 17449107.6/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10671345.9/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:10791909.6/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 21468615.5/113

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 8645146701.0/31

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.093+/-0.000 χ^2/NDF : 9346745732.7/33

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

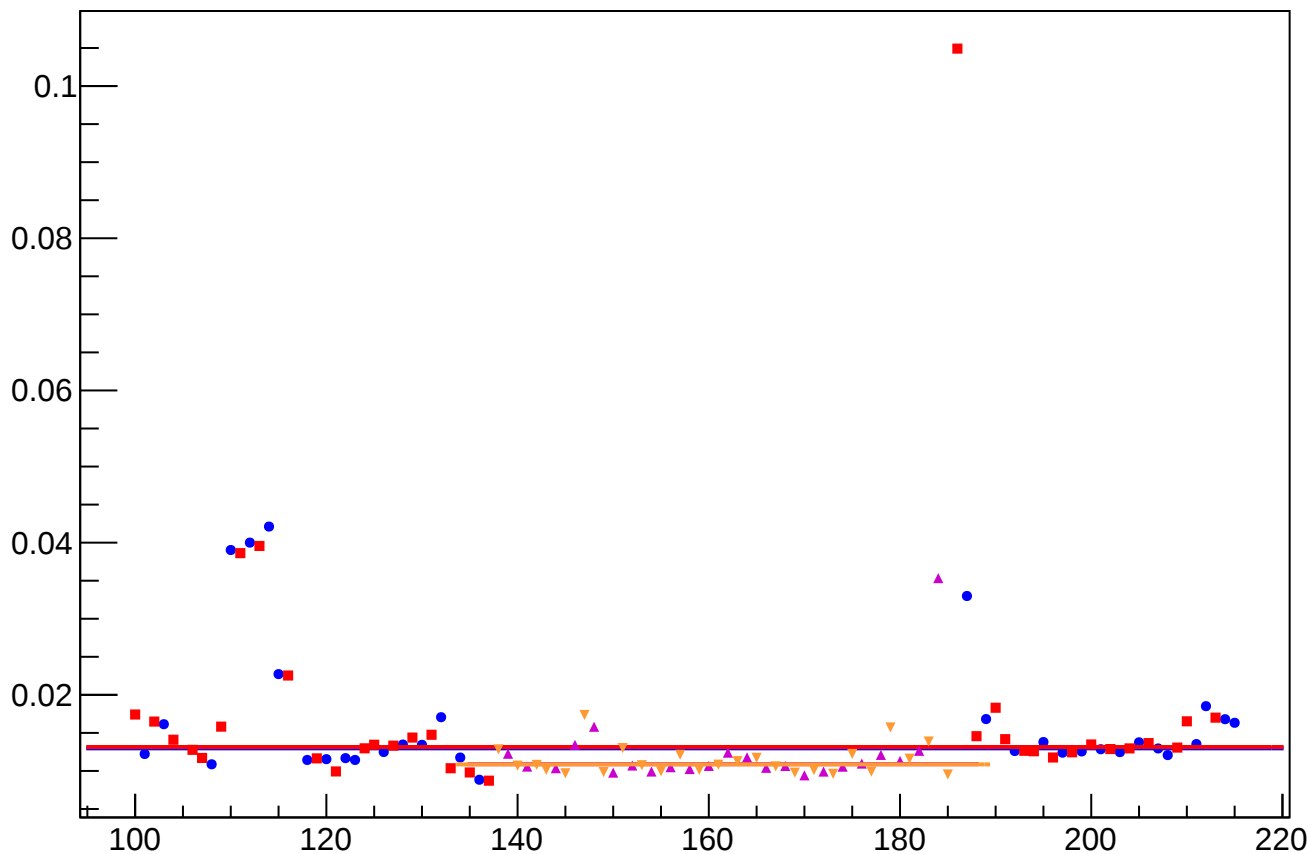
Right: 0.083+/-0.000 χ^2/NDF : 18011995503.6/65

In: 0.064+/-0.000 χ^2/NDF : 8713320124.8/54

Out: 0.072+/-0.000 χ^2/NDF : 9458723630.9/58

All: 0.068+/-0.000 χ^2/NDF : 18178545690.3/113

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 1779661.1/31

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2036025.8/33

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 1134994.9/47

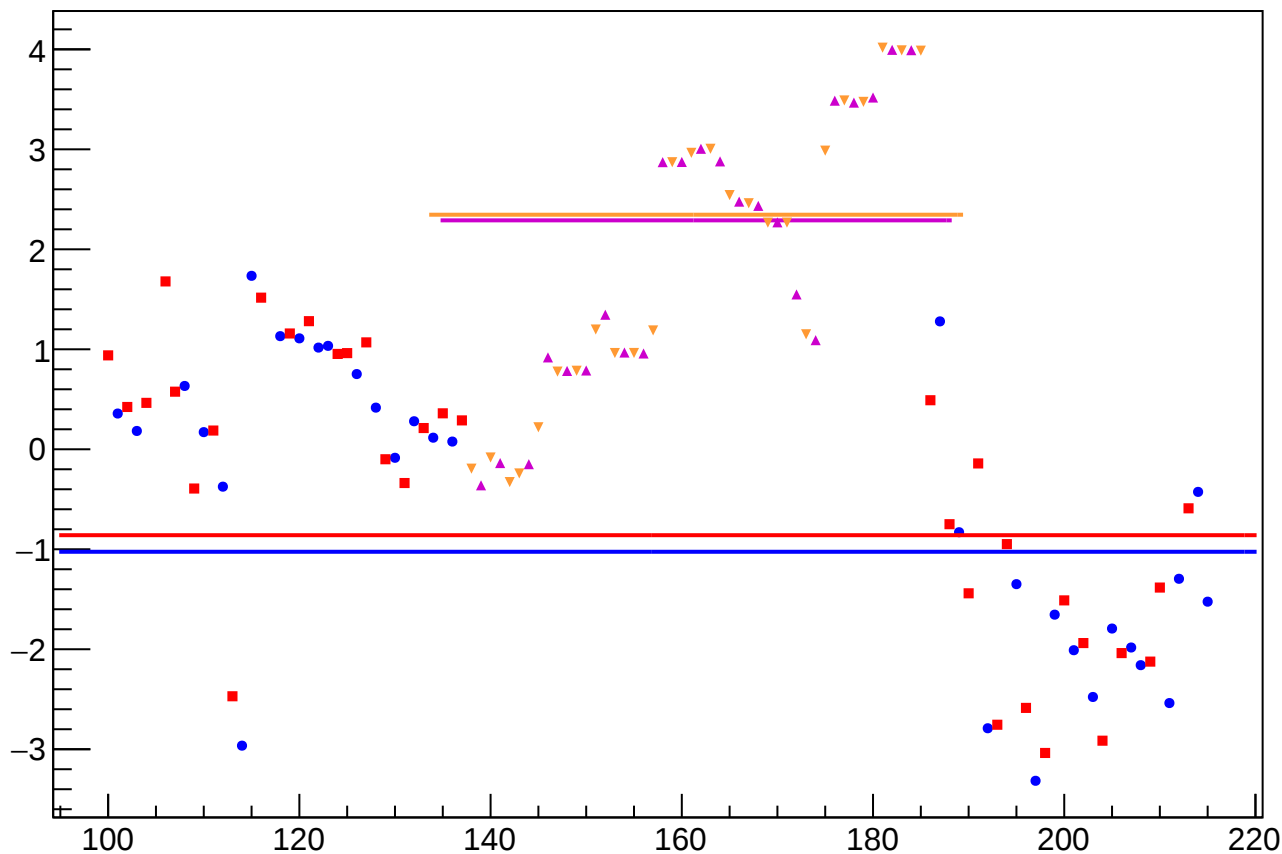
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 3818449.5/65

In: 0.012 $\pm$ 0.000 χ^2/NDF : 2788126.4/54

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 3212336.7/58

All: 0.012 $\pm$ 0.000 χ^2/NDF : 6000477.8/113

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.025+/-0.000 χ^2/NDF : 7816031203.1/31

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.859+/-0.000 χ^2/NDF : 8182386545.8/33

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

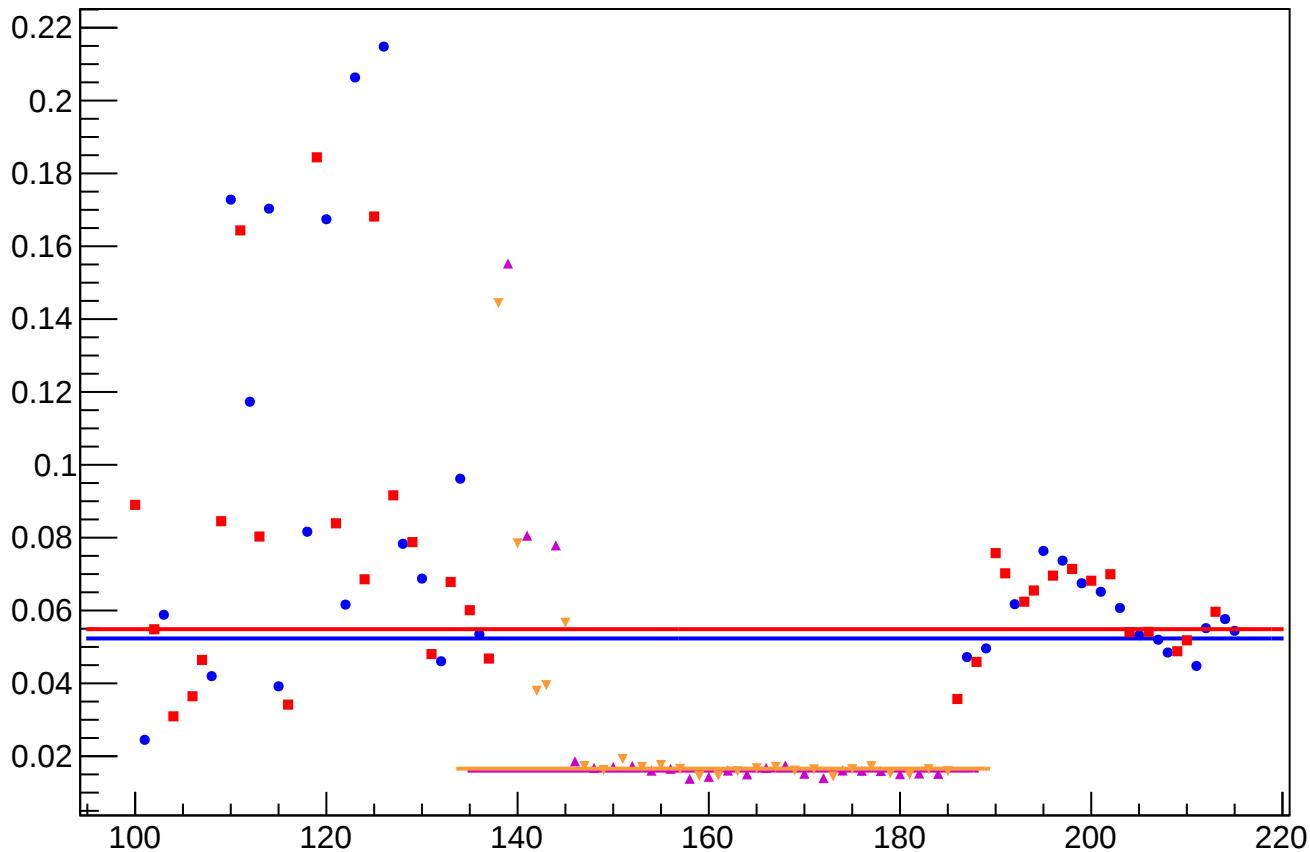
Right: -0.946+/-0.000 χ^2/NDF : 16062250850.9/65

In: 2.005+/-0.000 χ^2/NDF : 117512834662.5/54

Out: 2.089+/-0.000 χ^2/NDF : 113670914089.9/58

All: 2.046+/-0.000 χ^2/NDF : 231378214225.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3566973.2/31

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2873225.3/33

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

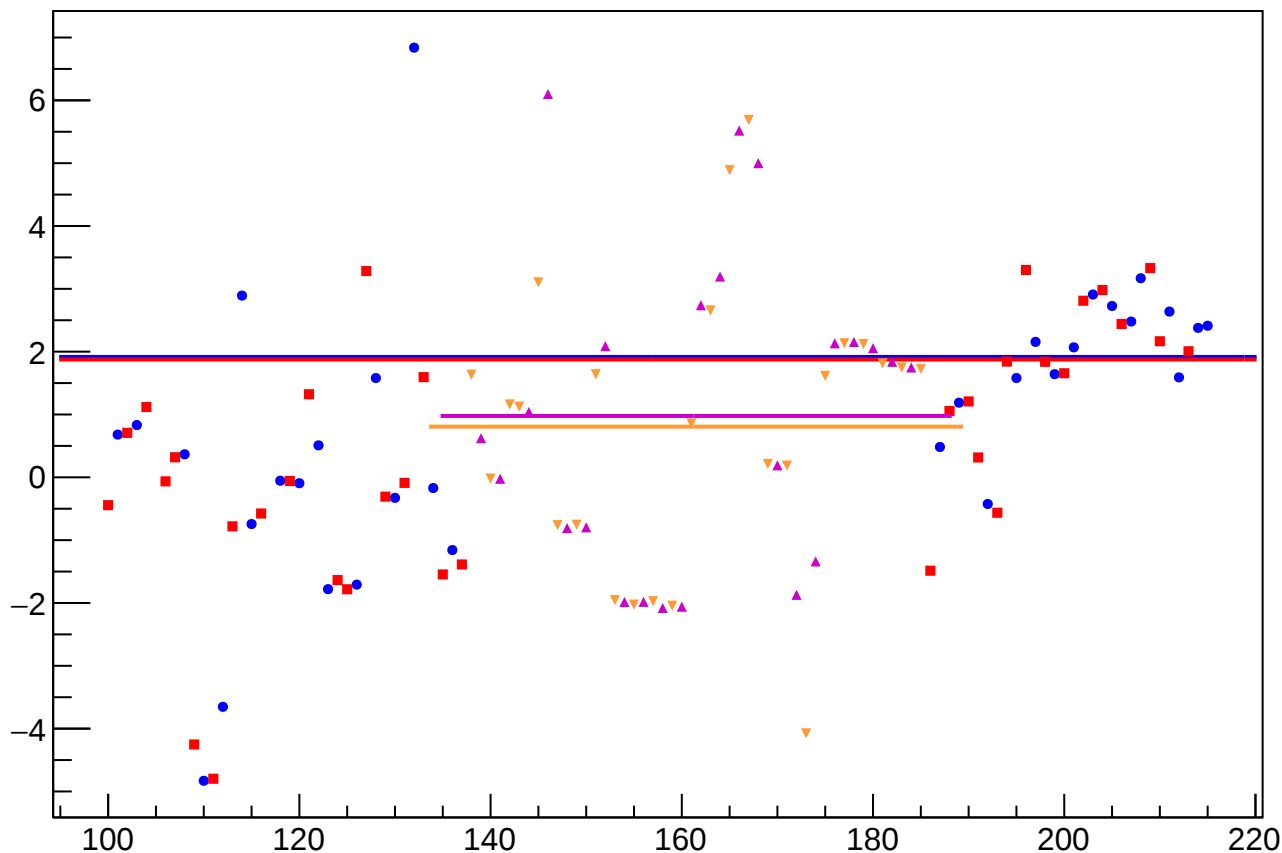
Right: 0.054 $\pm$ 0.000 χ^2 /NDF: 6470512.5/65

In: 0.019 $\pm$ 0.000 χ^2 /NDF:17656603.2/54

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:17485233.5/58

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 35155965.7/113

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.916+/-0.000

χ^2/NDF : 39479113551.2/31

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.896+/-0.000

χ^2/NDF : 79110086682.5/65

Right Out: 1.874+/-0.000

χ^2/NDF : 39605561258.6/33

In: 1.230+/-0.000

χ^2/NDF : 627867325965.6/54

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

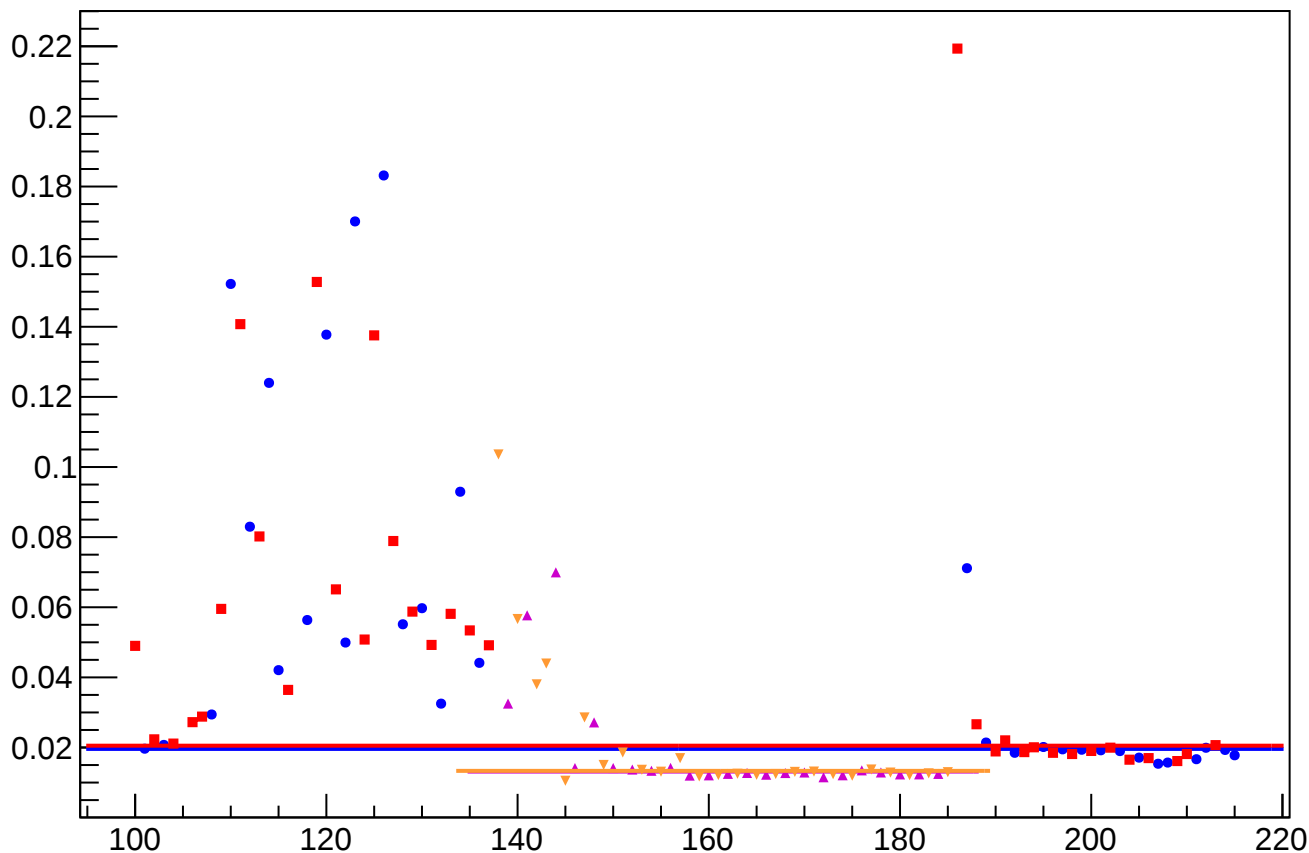
Out: 1.069+/-0.000

χ^2/NDF : 571029336274.6/58

All: 1.151+/-0.000

χ^2/NDF : 1200382157044.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4209706.3/31

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167049.8/33

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

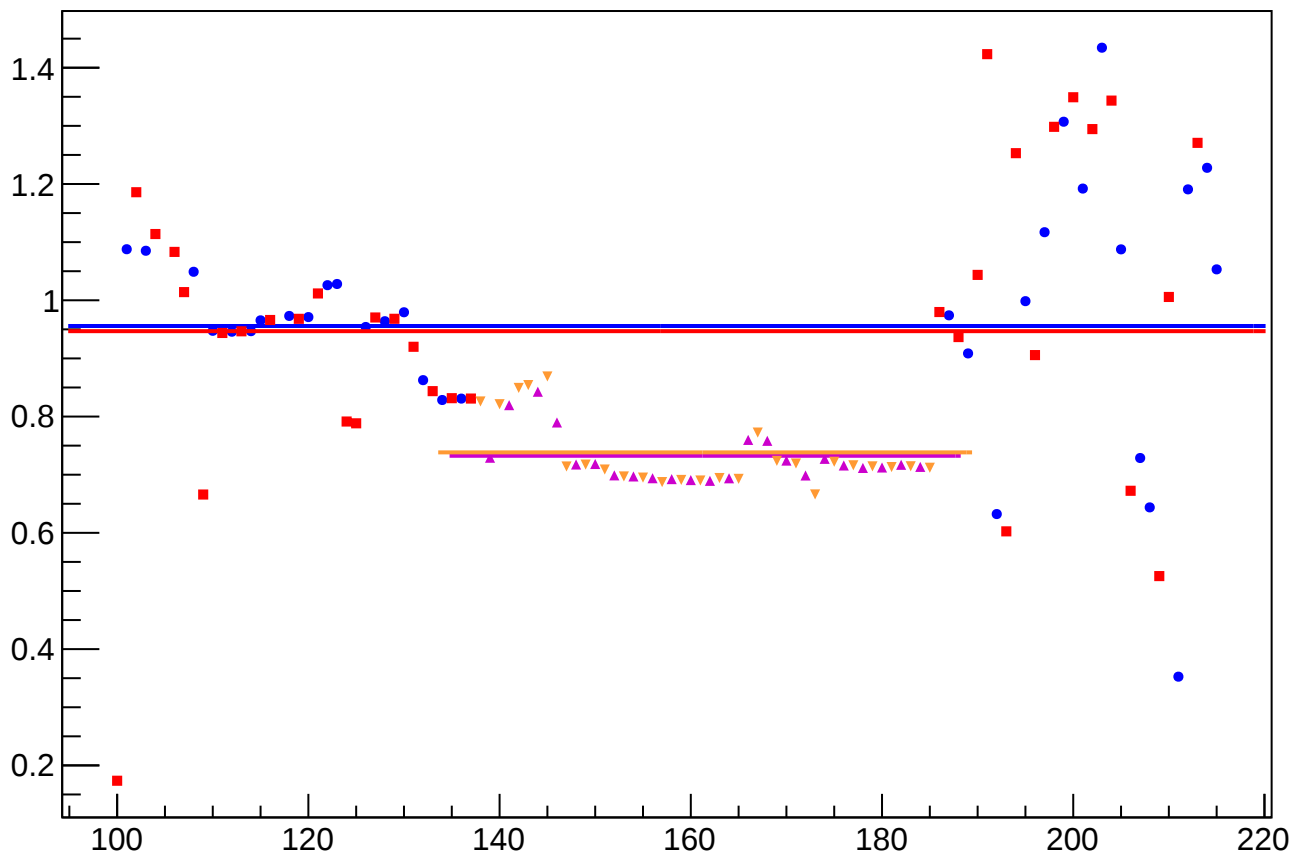
Right: 0.020+/-0.000 χ^2/NDF : 9401702.0/65

In: 0.015+/-0.000 χ^2/NDF :8069376.8/54

Out: 0.015+/-0.000 χ^2/NDF :10151096.0/58

All: 0.015+/-0.000 χ^2/NDF : 18226495.7/113

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.956+/-0.000 χ^2/NDF : 976714469.1/31

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.947+/-0.000 χ^2/NDF : 1201270257.7/33

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

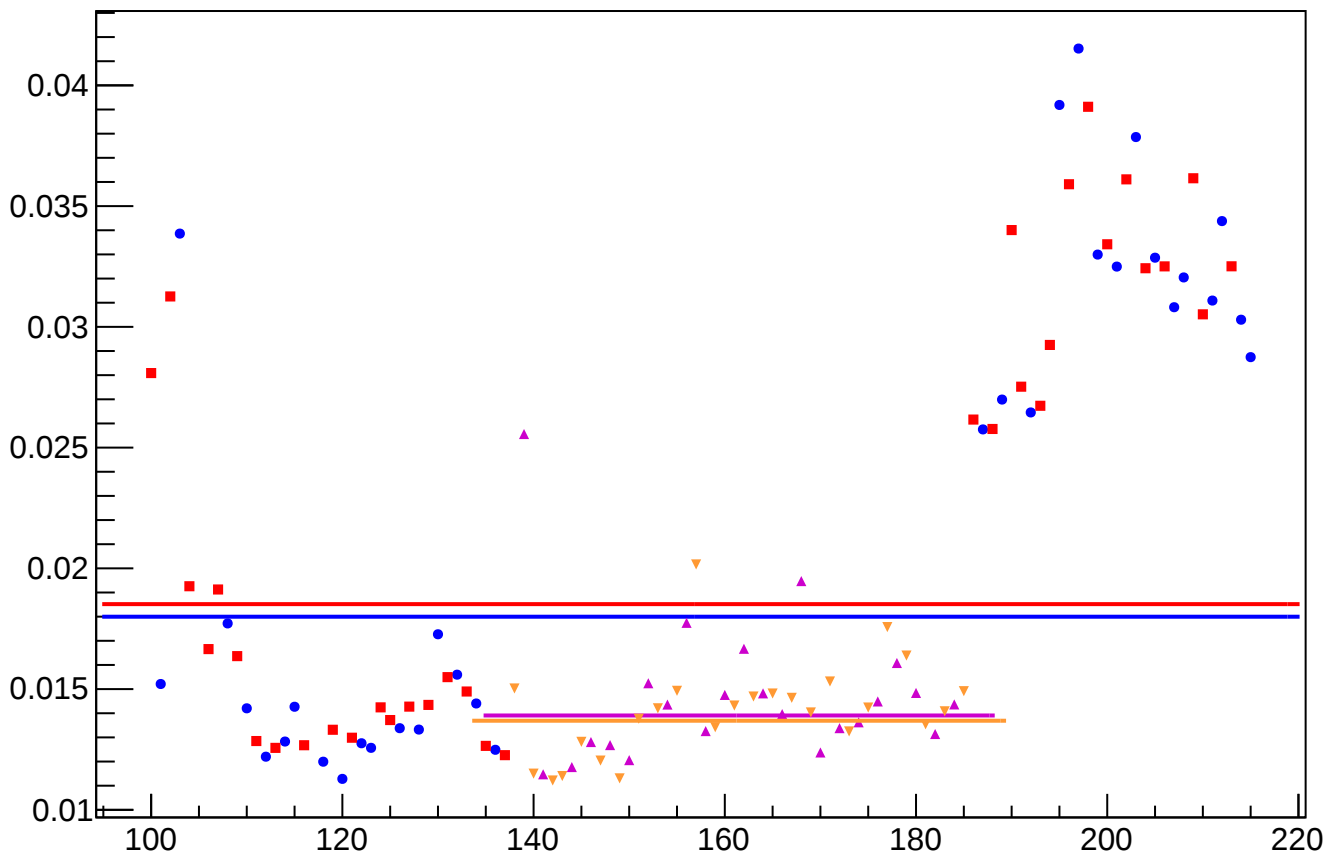
Right: 0.951+/-0.000 χ^2/NDF : 2179552546.4/65

In: 0.808+/-0.000 χ^2/NDF : 2486058718.6/54

Out: 0.803+/-0.000 χ^2/NDF : 2676663458.4/58

All: 0.805+/-0.000 χ^2/NDF : 5164002019.0/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5583793.7/31

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 4789479.3/33

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

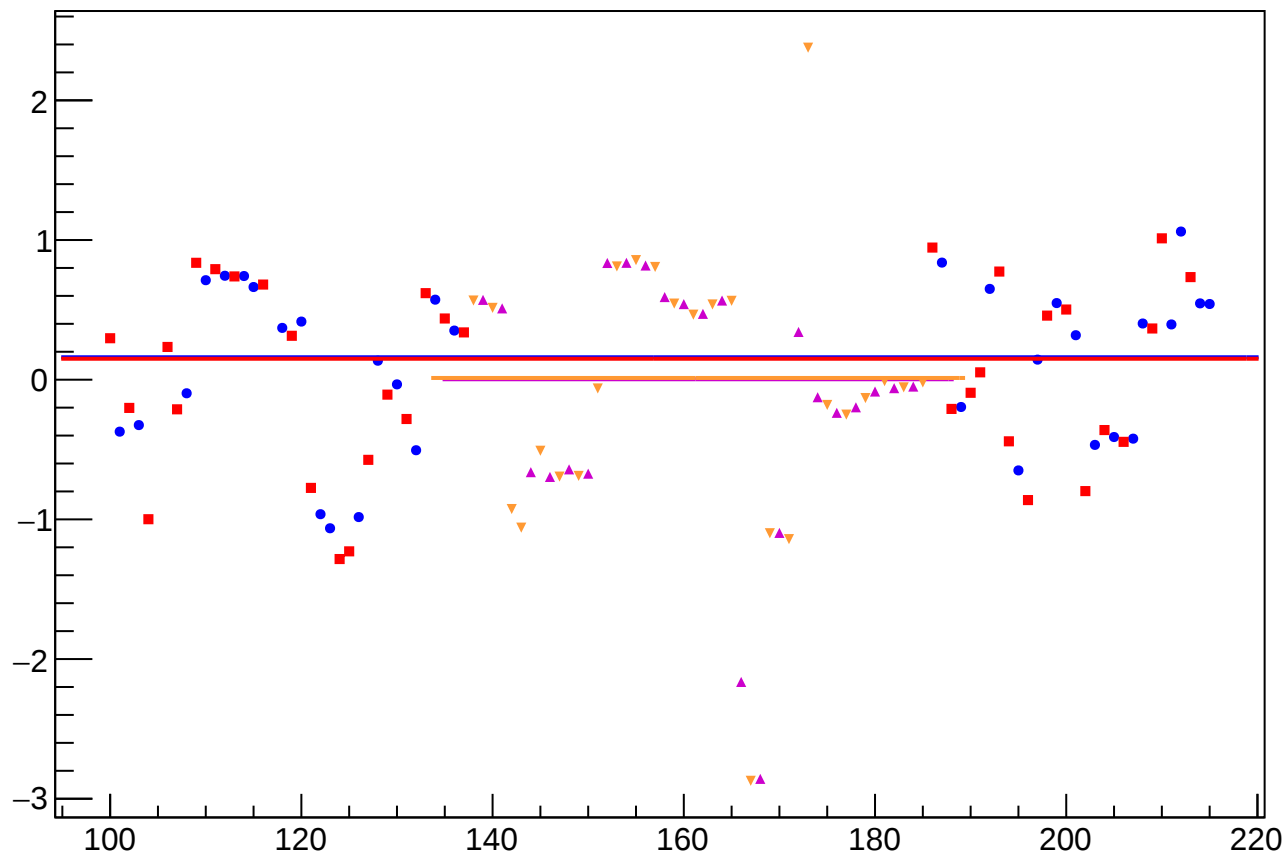
Right: 0.018+/-0.000 χ^2/NDF : 10384046.7/65

In: 0.015+/-0.000 χ^2/NDF : 7251369.5/54

Out: 0.015+/-0.000 χ^2/NDF : 6567863.5/58

All: 0.015+/-0.000 χ^2/NDF : 13820333.7/113

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.161 $\pm$ 0.000 χ^2 /NDF: 30852294464.5/31

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.150 $\pm$ 0.000 χ^2 /NDF: 40764385031.3/33

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 175214894006.3/47

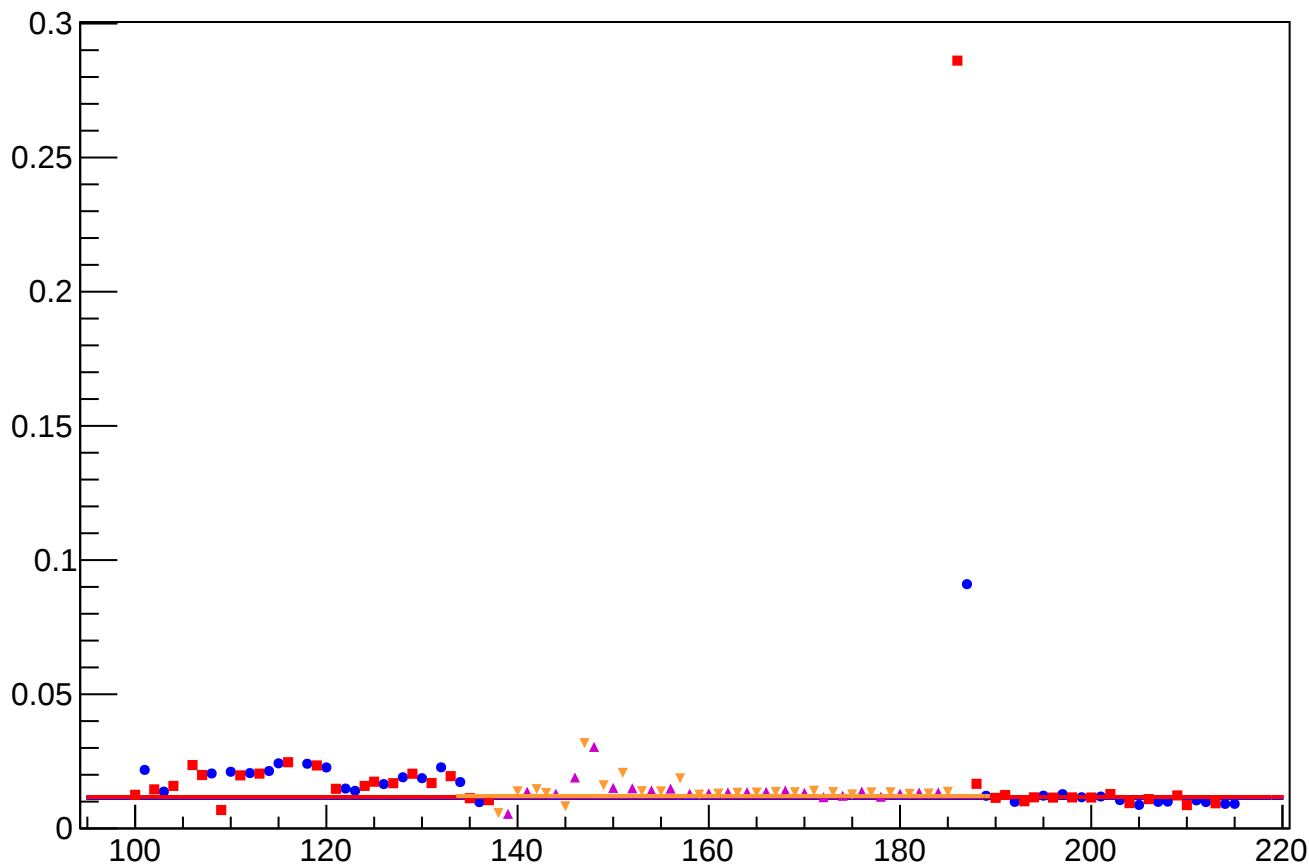
Right: 0.156 $\pm$ 0.000 χ^2 /NDF: 71622554930.9/65

In: 0.085 $\pm$ 0.000 χ^2 /NDF: 111018837972.6/54

Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 138147705418.6/58

All: 0.082 $\pm$ 0.000 χ^2 /NDF: 249170033665.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2615153.5/31

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2968421.2/33

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

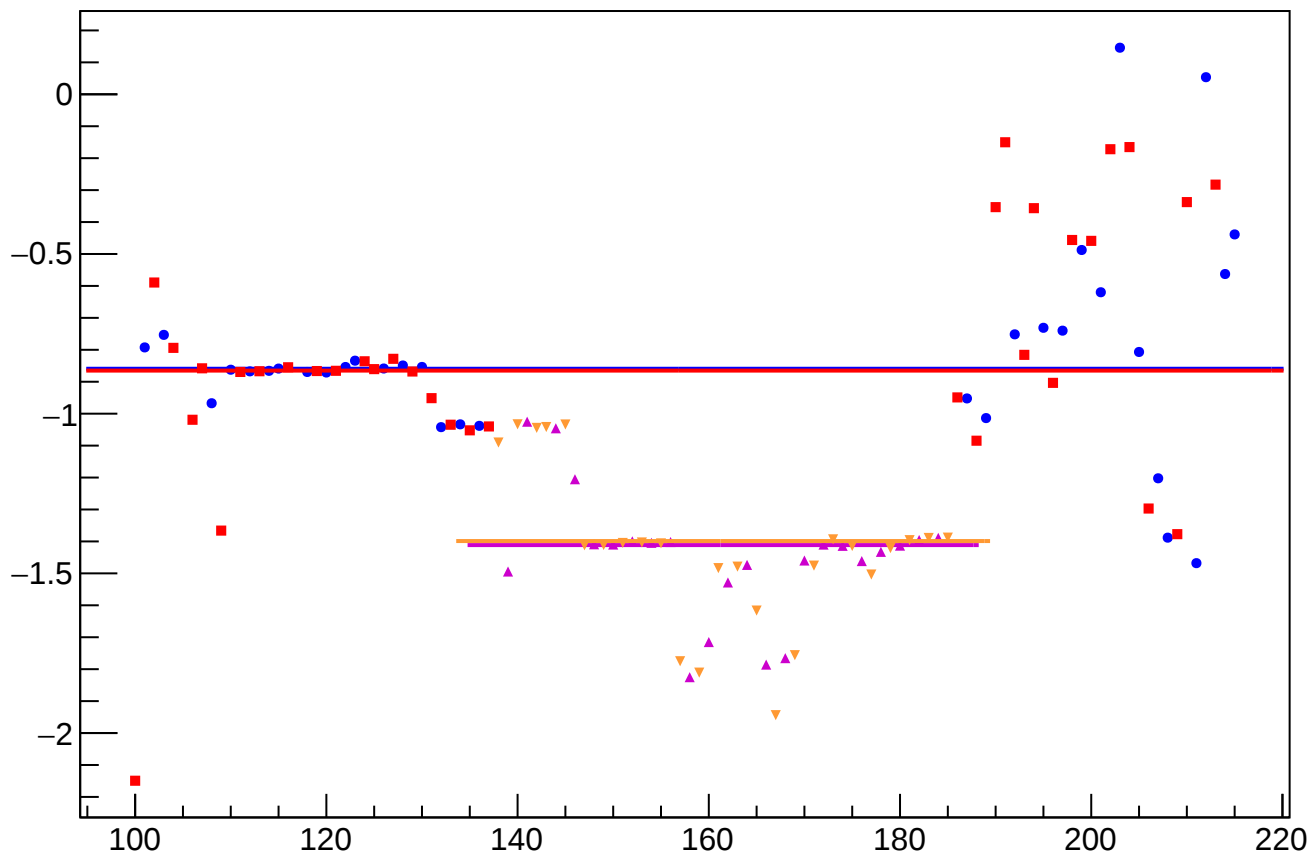
Right: 0.012+/-0.000 χ^2/NDF : 5597062.2/65

In: 0.012+/-0.000 χ^2/NDF :5661856.7/54

Out: 0.012+/-0.000 χ^2/NDF :6089328.7/58

All: 0.012+/-0.000 χ^2/NDF : 11764524.6/113

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.859 ± 0.000 $\chi^2/\text{NDF}: 372770707.7/31$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.865 ± 0.000 $\chi^2/\text{NDF}: 482626288.6/33$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

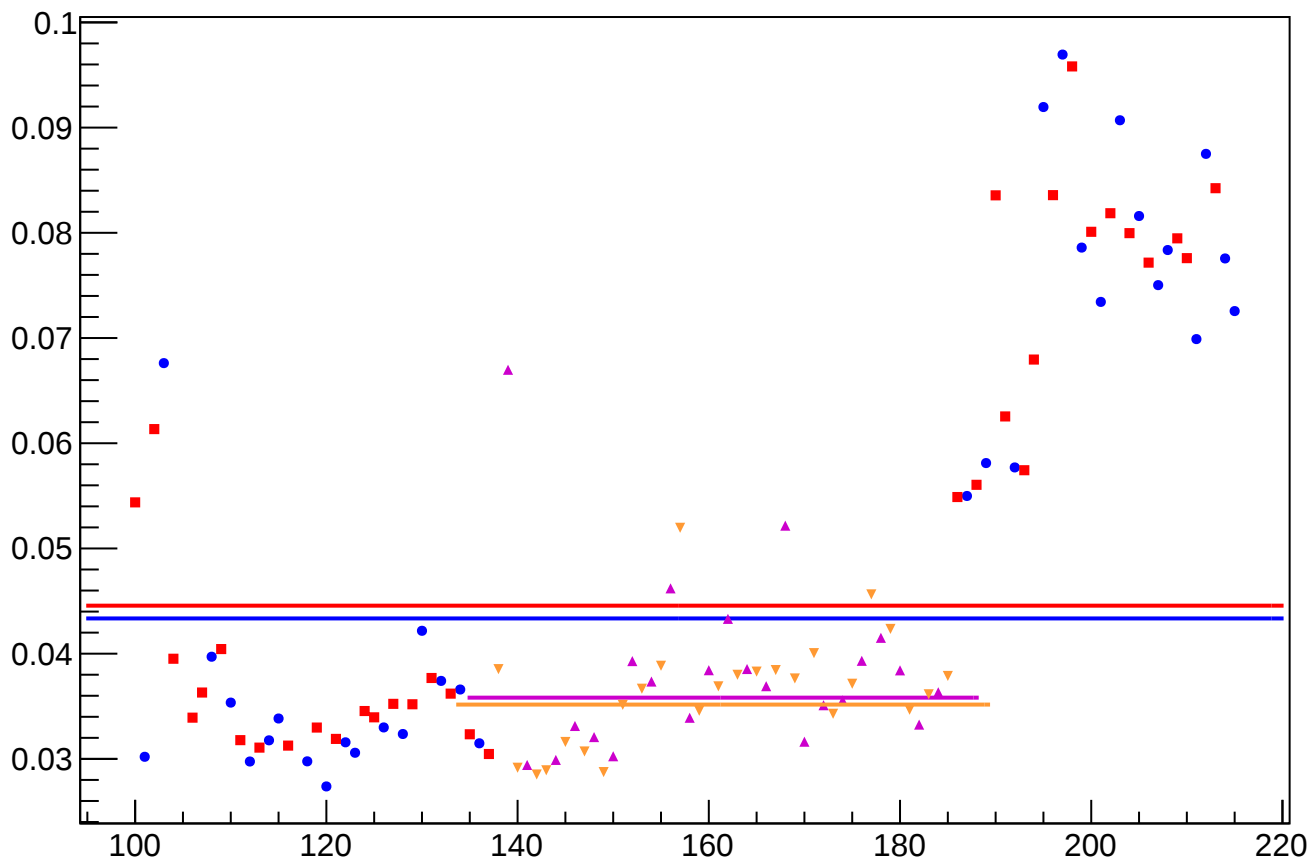
Right: -0.862 ± 0.000 $\chi^2/\text{NDF}: 855511859.3/65$

In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 2244549229.1/54$

Out: -1.214 ± 0.000 $\chi^2/\text{NDF}: 2497601905.6/58$

All: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4743059636.7/111$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.000 χ^2/NDF : 5392766.6/31

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF : 595219.5/24

Right Out: 0.045 $\pm$ 0.000 χ^2/NDF : 4353937.8/33

Left In: 0.036 $\pm$ 0.000 χ^2/NDF : 864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1464751.5/47

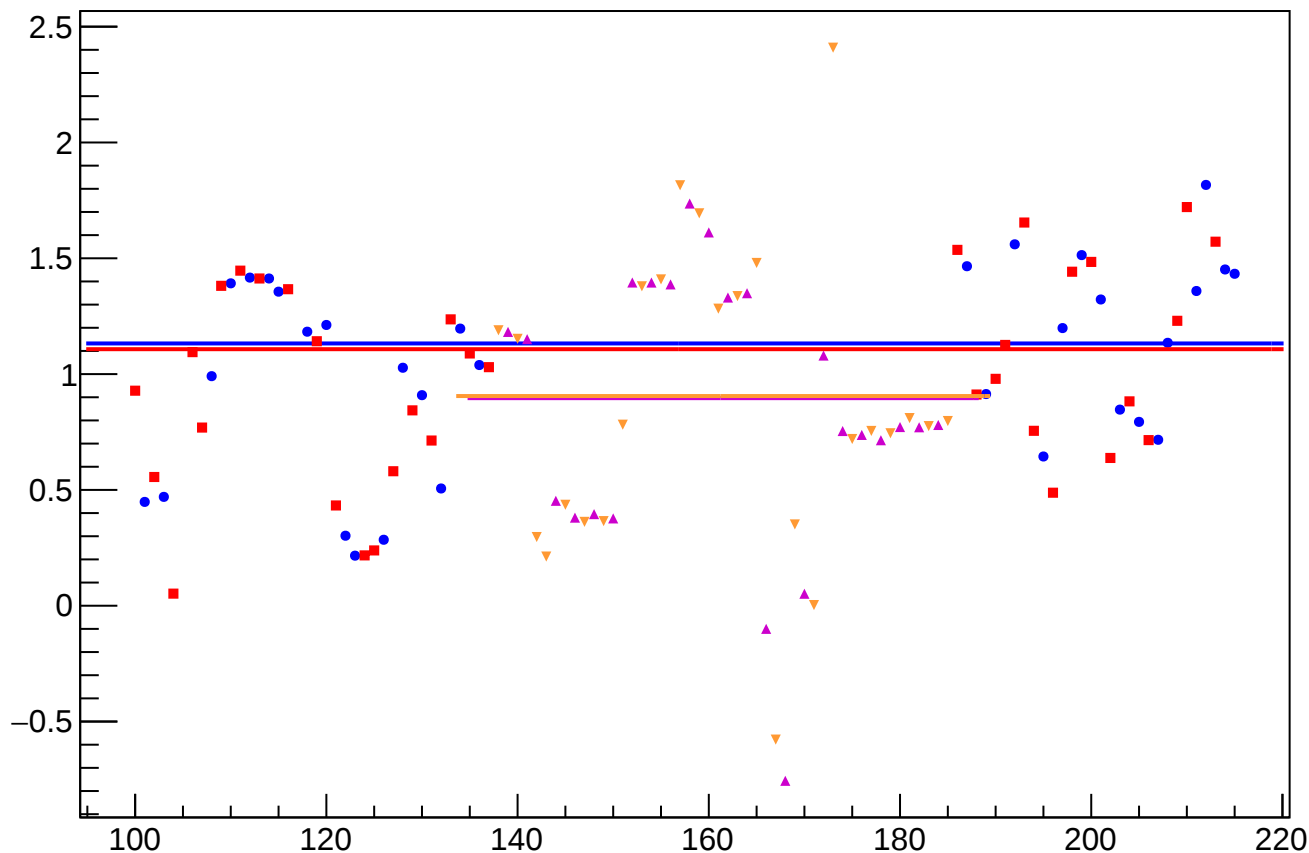
Right: 0.044 $\pm$ 0.000 χ^2/NDF : 9757005.6/65

In: 0.039 $\pm$ 0.000 χ^2/NDF : 6762386.5/54

Out: 0.038 $\pm$ 0.000 χ^2/NDF : 5741414.4/58

All: 0.039 $\pm$ 0.000 χ^2/NDF : 12504817.4/113

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.132 $\pm$ 0.000

χ^2 /NDF: 42362777269.5/31

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

Right Out: 1.108 $\pm$ 0.000

χ^2 /NDF: 43647471236.9/33

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

Left: 0.901 $\pm$ 0.000

χ^2 /NDF: 150868618084.6/47

Right: 1.121 $\pm$ 0.000

χ^2 /NDF: 86093577663.0/65

In: 1.038 $\pm$ 0.000

χ^2 /NDF: 115806232922.6/54

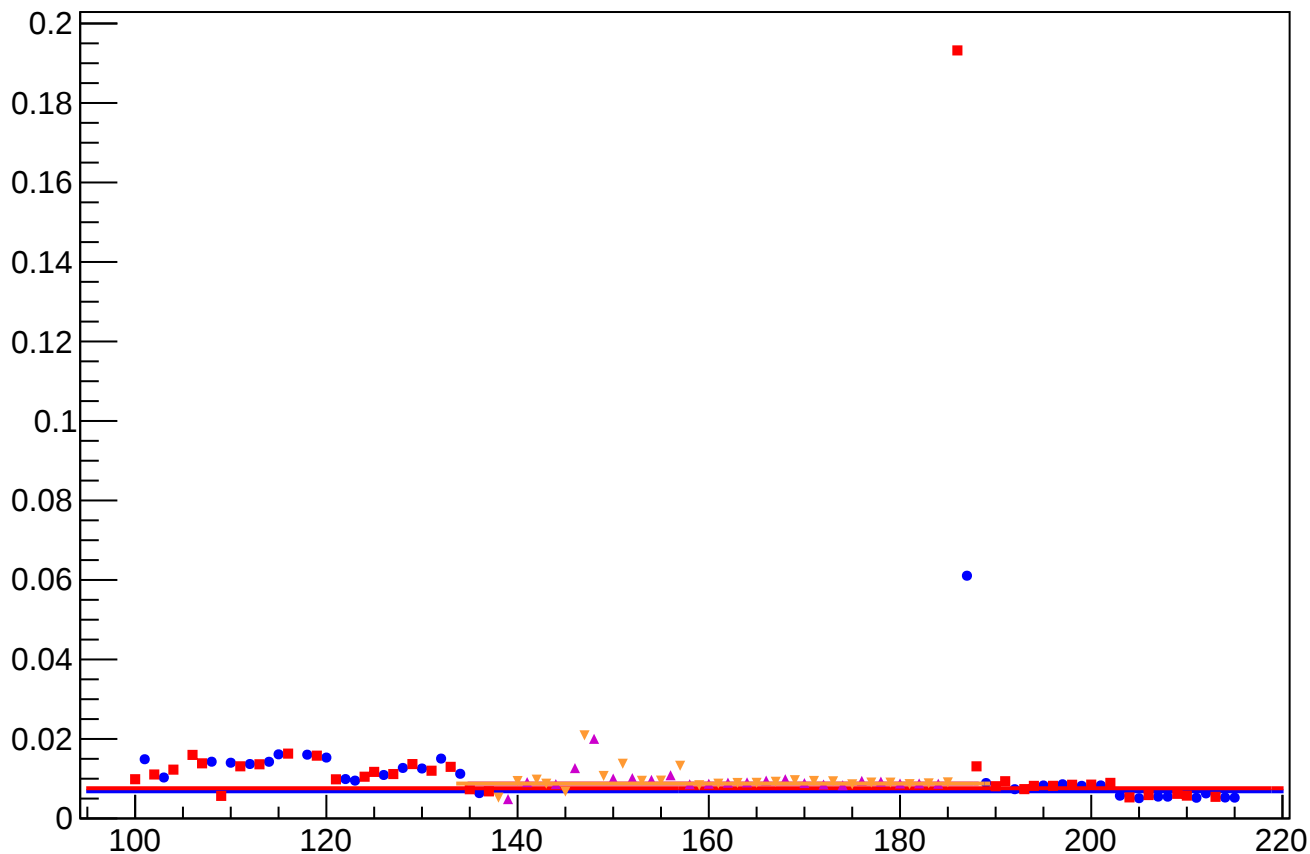
Out: 1.012 $\pm$ 0.000

χ^2 /NDF: 132633309111.7/58

All: 1.026 $\pm$ 0.000

χ^2 /NDF: 248602986306.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3754340.6/31

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3680080.7/33

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

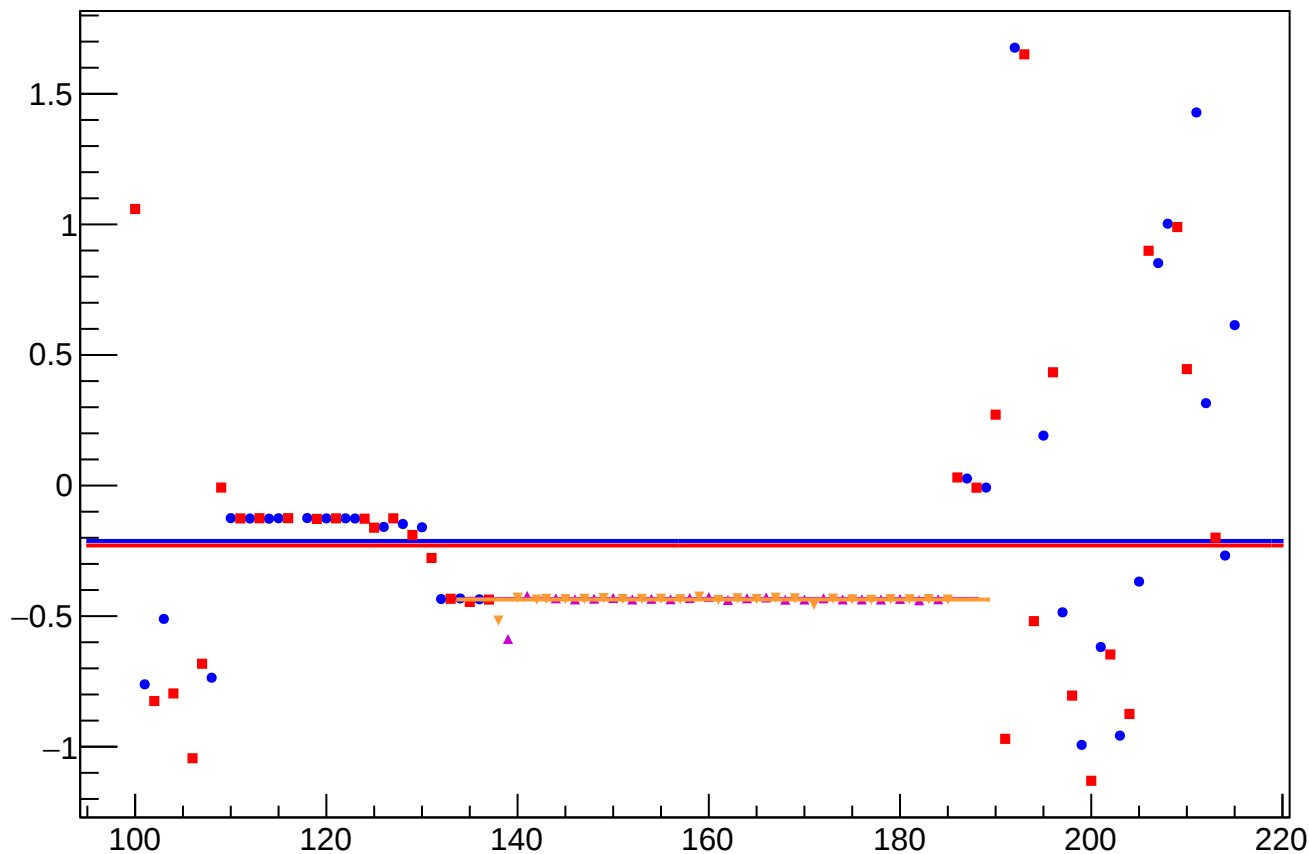
Right: 0.007+/-0.000 χ^2/NDF : 7592333.8/65

In: 0.008+/-0.000 χ^2/NDF :6282150.3/54

Out: 0.008+/-0.000 χ^2/NDF :5698049.9/58

All: 0.008+/-0.000 χ^2/NDF : 12124660.6/113

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.212+/-0.000 χ^2/NDF : 4980665593.5/31

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.229+/-0.000 χ^2/NDF : 3417363082.8/33

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

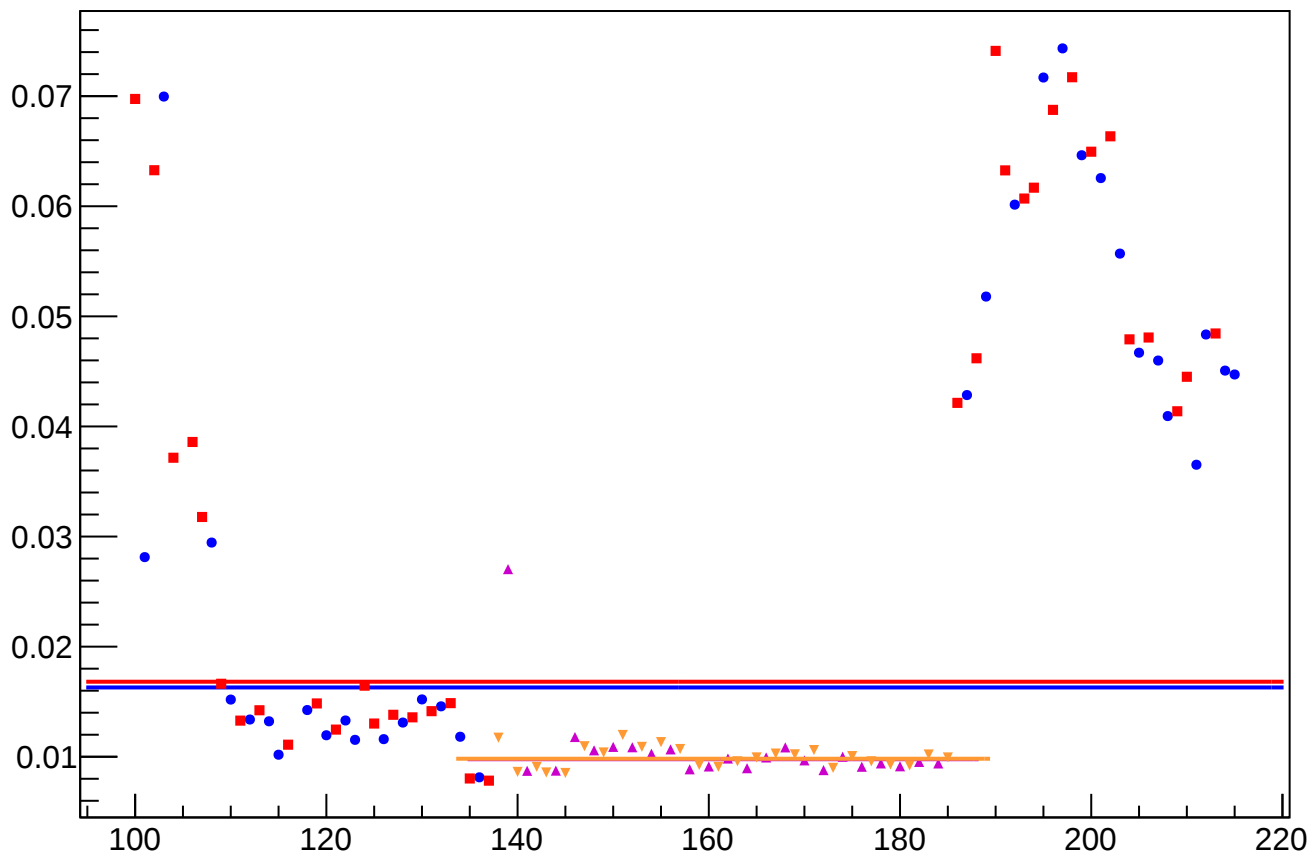
Right: -0.220+/-0.000 χ^2/NDF : 8403177809.6/65

In: -0.392+/-0.000 χ^2/NDF : 6438542049.0/54

Out: -0.401+/-0.000 χ^2/NDF : 4626006204.3/58

All: -0.396+/-0.000 χ^2/NDF : 11072971687.1/117

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2 /NDF: 12505327.1/31

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.017 $\pm$ 0.000 χ^2 /NDF: 12266222.1/33

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1017115.3/47

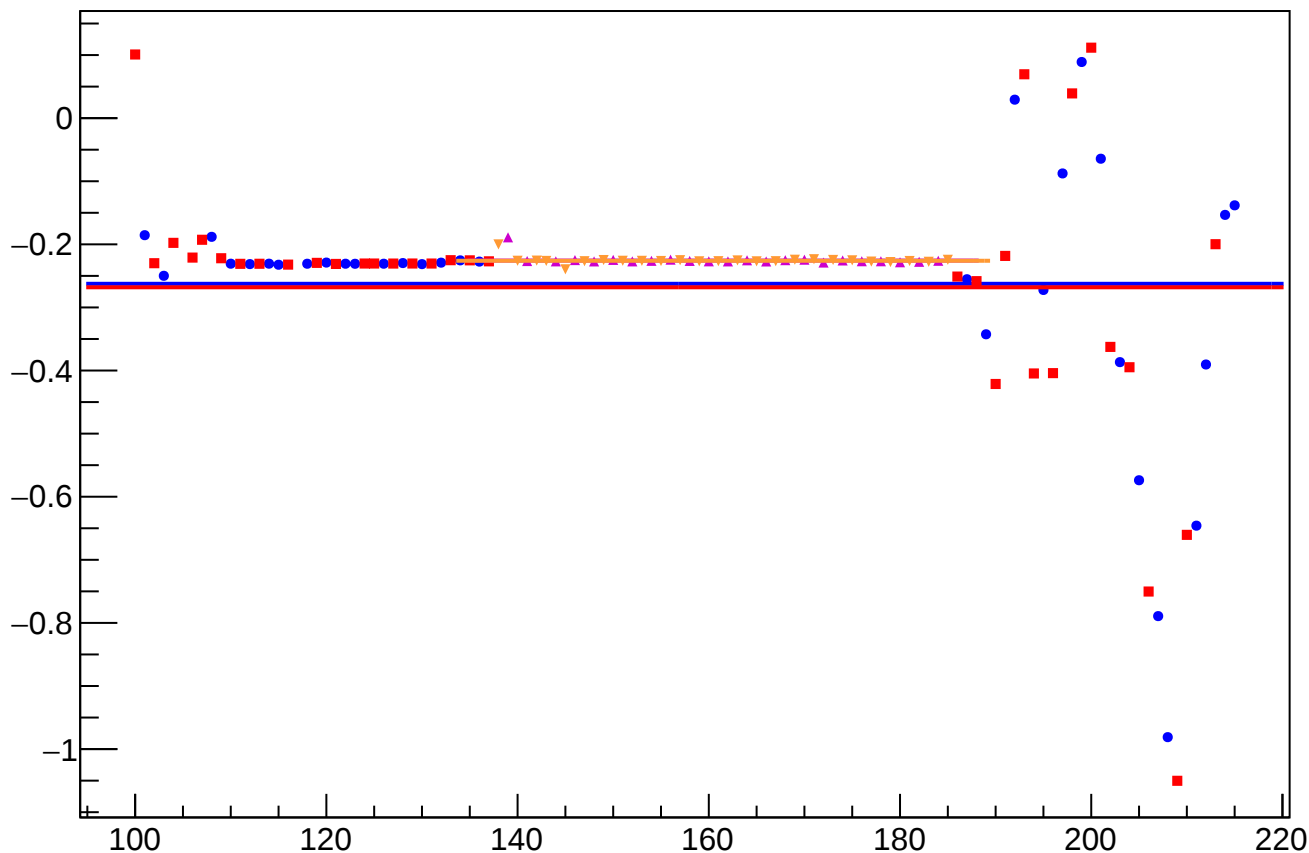
Right: 0.017 $\pm$ 0.000 χ^2 /NDF: 24780910.5/65

In: 0.011 $\pm$ 0.000 χ^2 /NDF:15727310.3/54

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:15233984.6/58

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 30961315.4/113

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.263+/-0.000 χ^2/NDF : 25128939462.3/31

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.268+/-0.000 χ^2/NDF : 25233911908.2/33

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

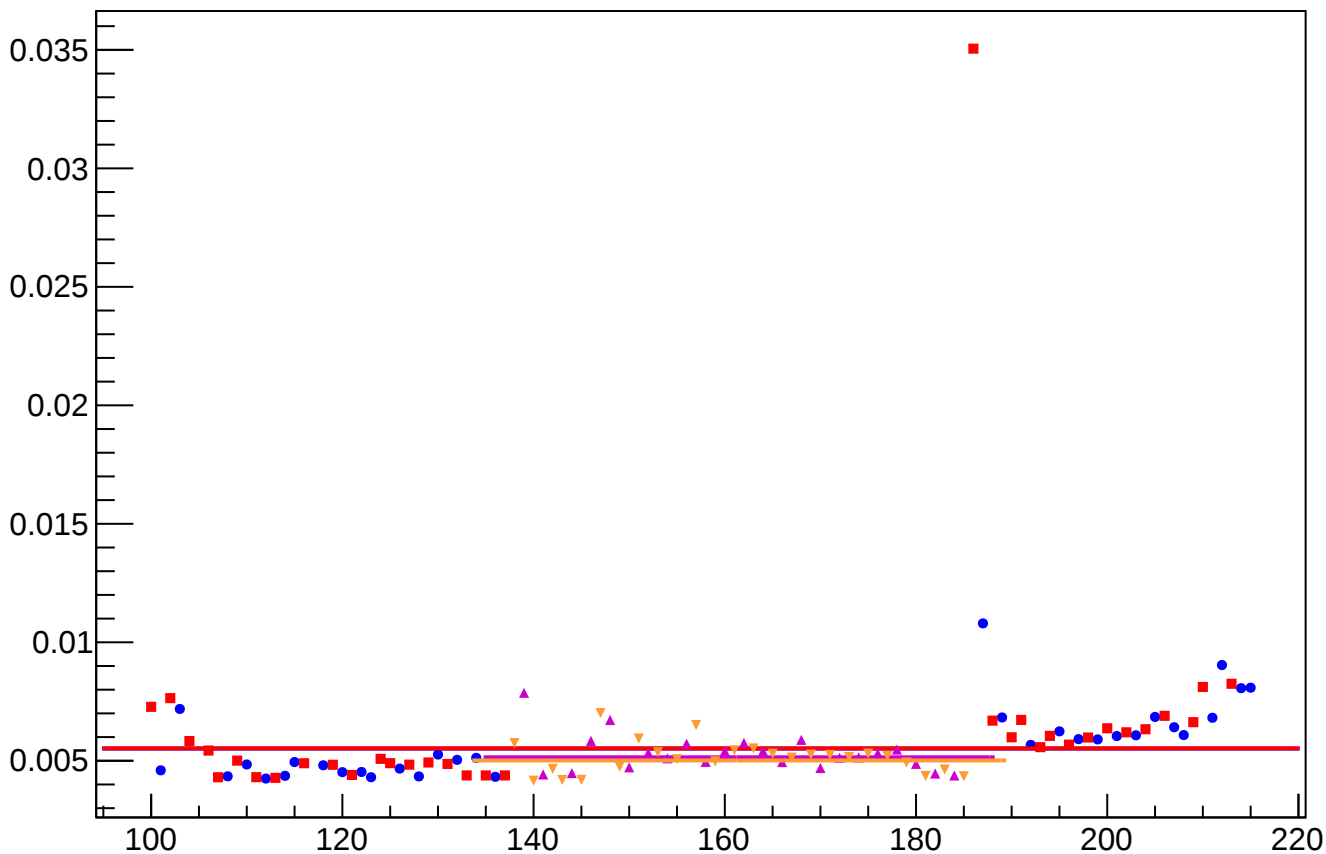
Right: -0.265+/-0.000 χ^2/NDF : 50370653658.9/65

In: -0.242+/-0.000 χ^2/NDF : 25522745304.1/54

Out: -0.244+/-0.000 χ^2/NDF : 25768738231.2/58

All: -0.243+/-0.000 χ^2/NDF : 51292632540.1/117

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1366143.7/31

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1607744.0/33

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

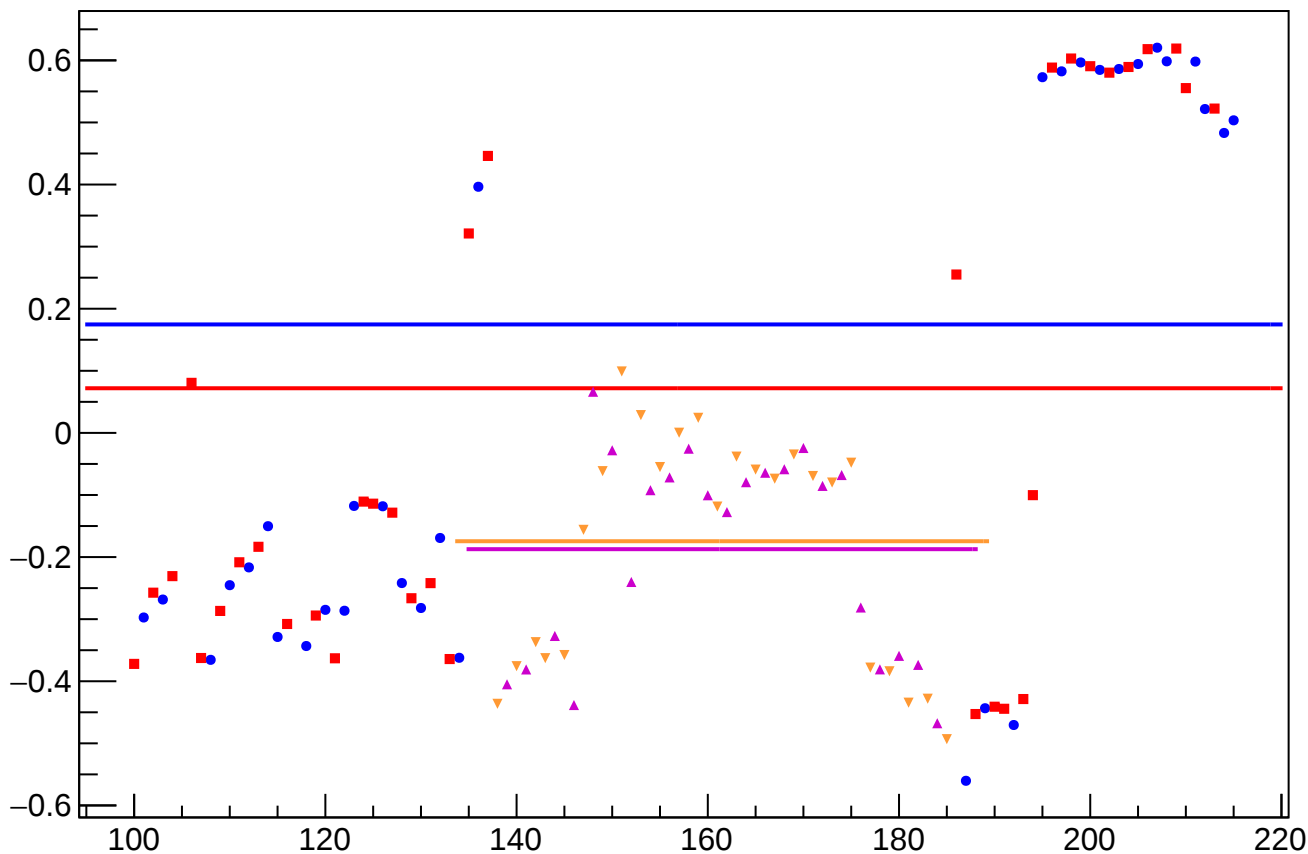
Right: 0.006+/-0.000 χ^2/NDF : 2973935.4/65

In: 0.005+/-0.000 χ^2/NDF : 1935016.7/54

Out: 0.005+/-0.000 χ^2/NDF : 2289917.7/58

All: 0.005+/-0.000 χ^2/NDF : 4233000.3/113

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.175+/-0.000

χ^2/NDF : 68815783718.4/31

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.123+/-0.000

χ^2/NDF : 136934592838.7/65

Right Out: 0.072+/-0.000

χ^2/NDF : 66224140462.2/33

In: -0.044+/-0.000

χ^2/NDF : 109911394999.5/54

Out: -0.080+/-0.000

χ^2/NDF : 97736153035.2/58

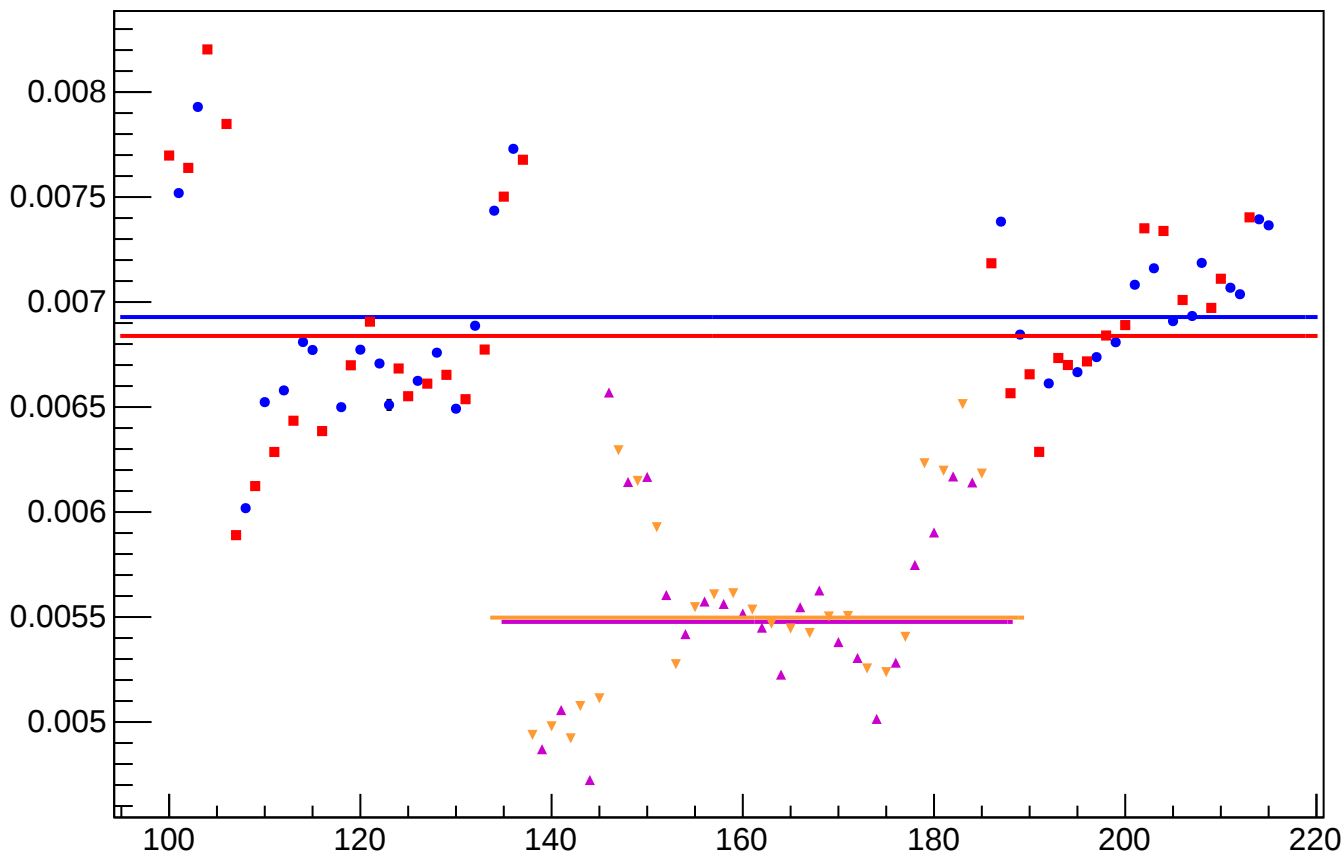
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.062+/-0.000

χ^2/NDF : 208220046556.8

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 104658.1/31

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 142070.0/33

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

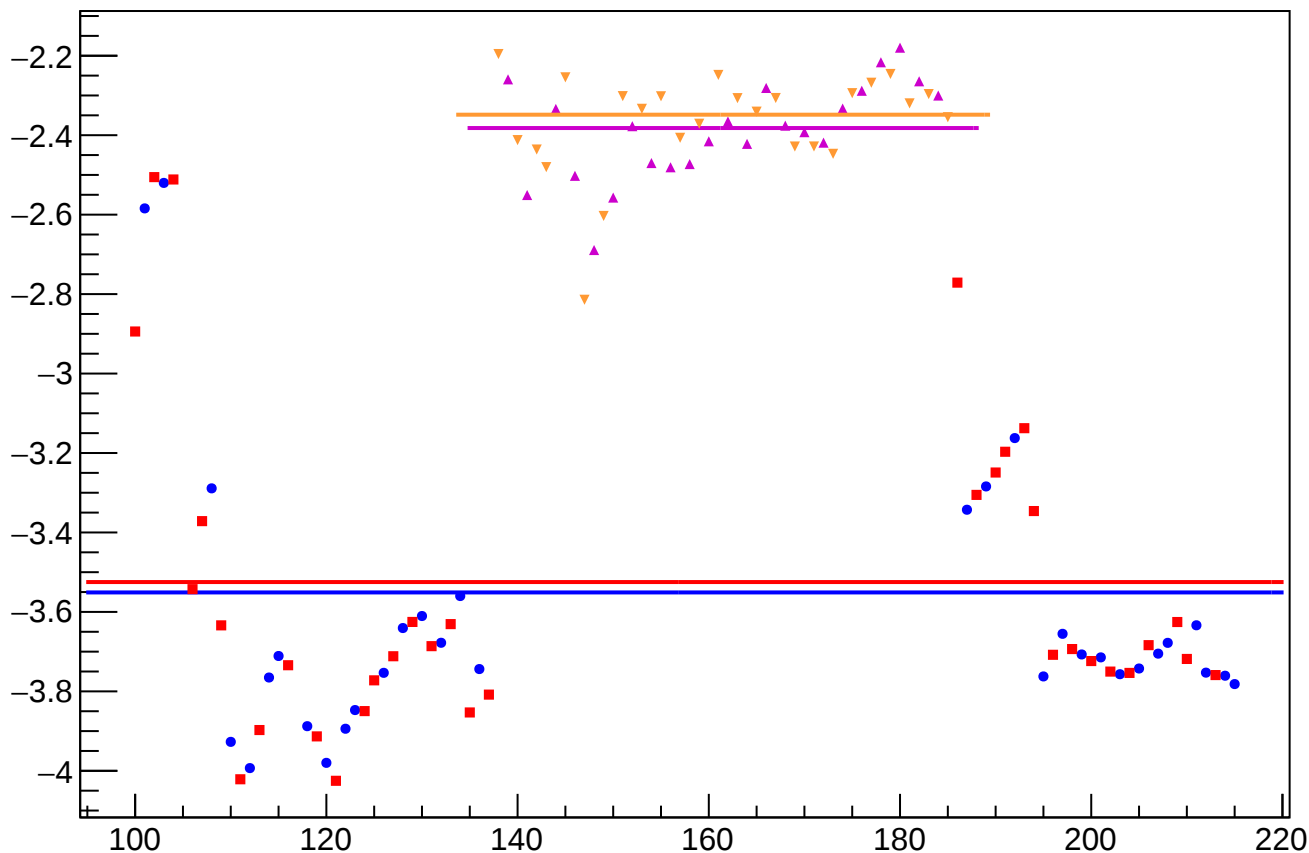
Right: 0.007+/-0.000 χ^2/NDF : 249630.0/65

In: 0.006+/-0.000 χ^2/NDF :1216755.4/54

Out: 0.006+/-0.000 χ^2/NDF :1140243.0/58

All: 0.006+/-0.000 χ^2/NDF : 2358221.5/113

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.551 $\pm$ 0.000 χ^2/NDF : 30702735195.5/31

Left Out: -2.348 $\pm$ 0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.525 $\pm$ 0.000 χ^2/NDF : 31318054954.9/33

Left In: -2.382 $\pm$ 0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365 $\pm$ 0.000 χ^2/NDF : 4600738143.2/47

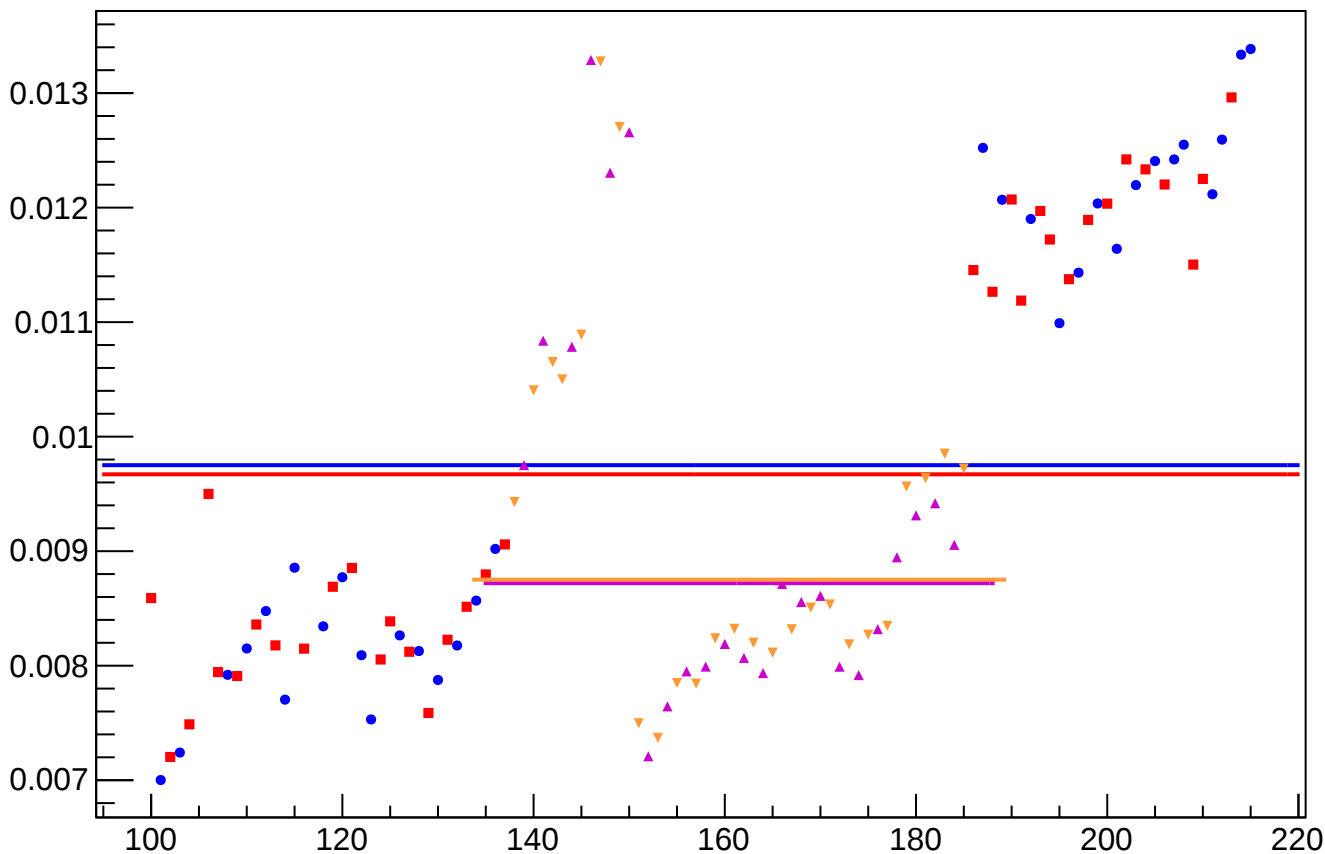
Right: -3.538 $\pm$ 0.000 χ^2/NDF : 62079564232.2/65

In: -2.903 $\pm$ 0.000 χ^2/NDF : 162877937304.1/54

Out: -2.860 $\pm$ 0.000 χ^2/NDF : 168796876262.4/58

All: -2.881 $\pm$ 0.000 χ^2/NDF : 332034033096.0

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 1522535.2/31

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:663672.8/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1274912.0/33

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:747867.0/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 1411749.0/47

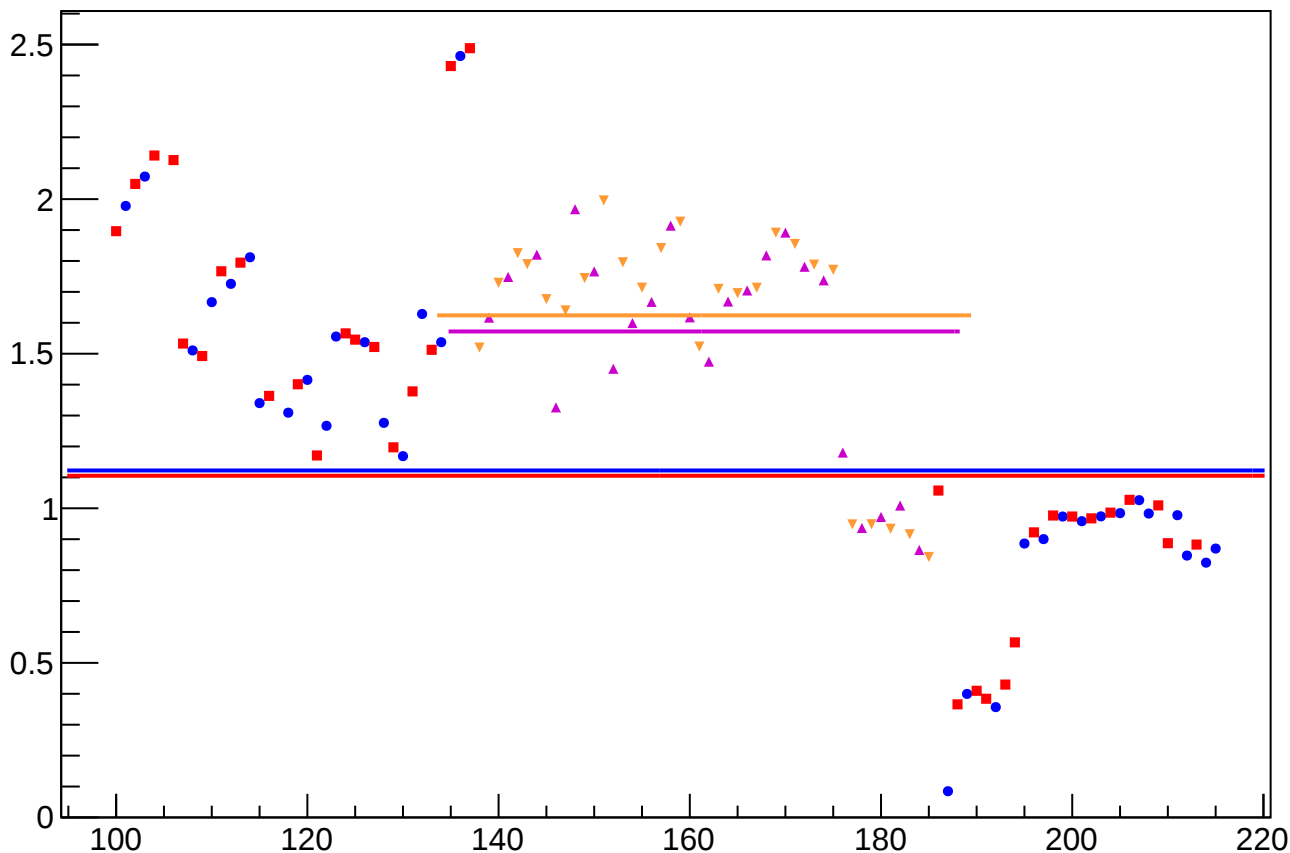
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2798545.0/65

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2472212.1/54

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2103981.5/58

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4576505.9/113

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.122+/-0.000 χ^2/NDF : 28842286254.3/31

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.105+/-0.000 χ^2/NDF : 33157275731.4/33

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

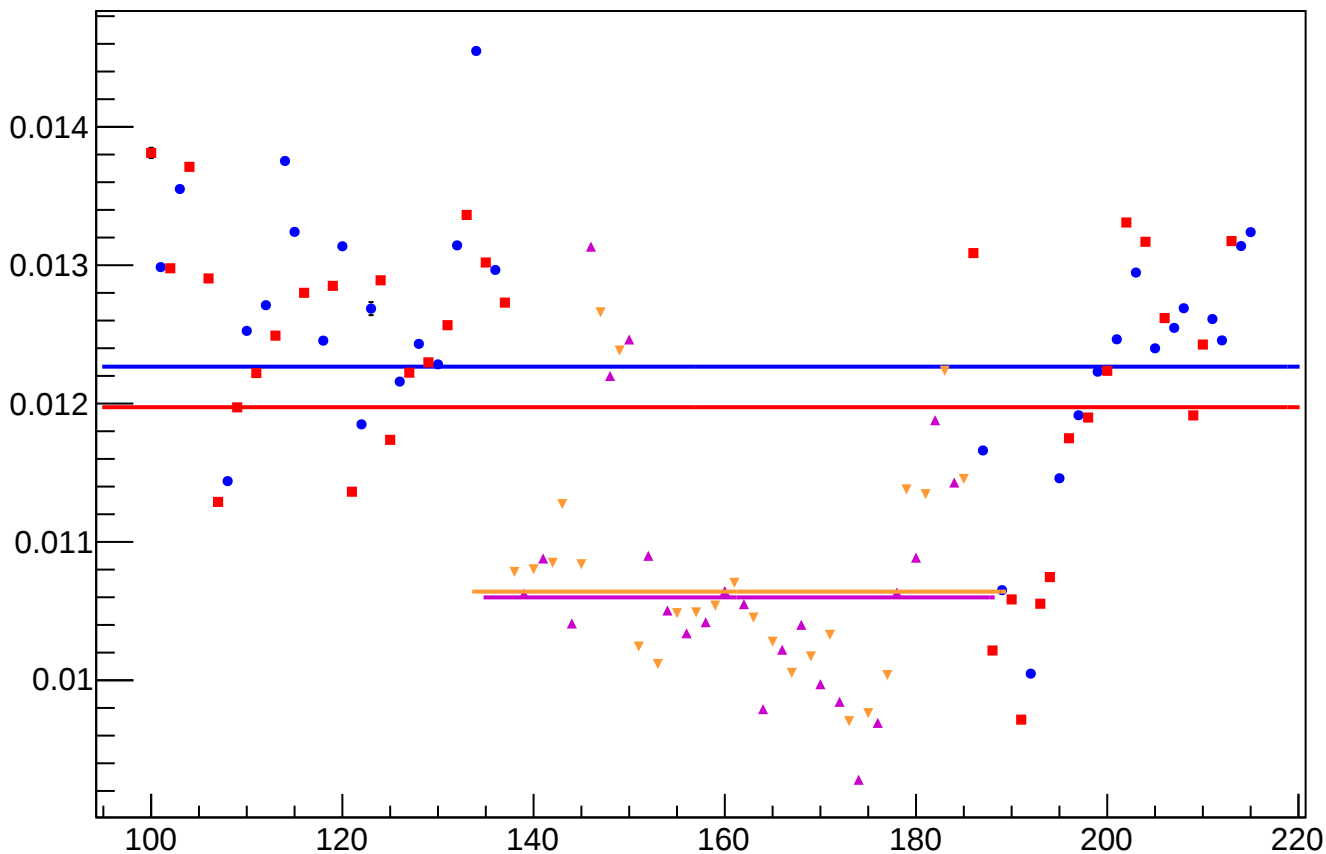
Right: 1.114+/-0.000 χ^2/NDF : 62016355507.3/65

In: 1.377+/-0.000 χ^2/NDF : 56005349818.0/54

Out: 1.402+/-0.000 χ^2/NDF : 67765248441.9/58

All: 1.390+/-0.000 χ^2/NDF : 123852237373.2

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 186300.5/31

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 245510.7/33

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

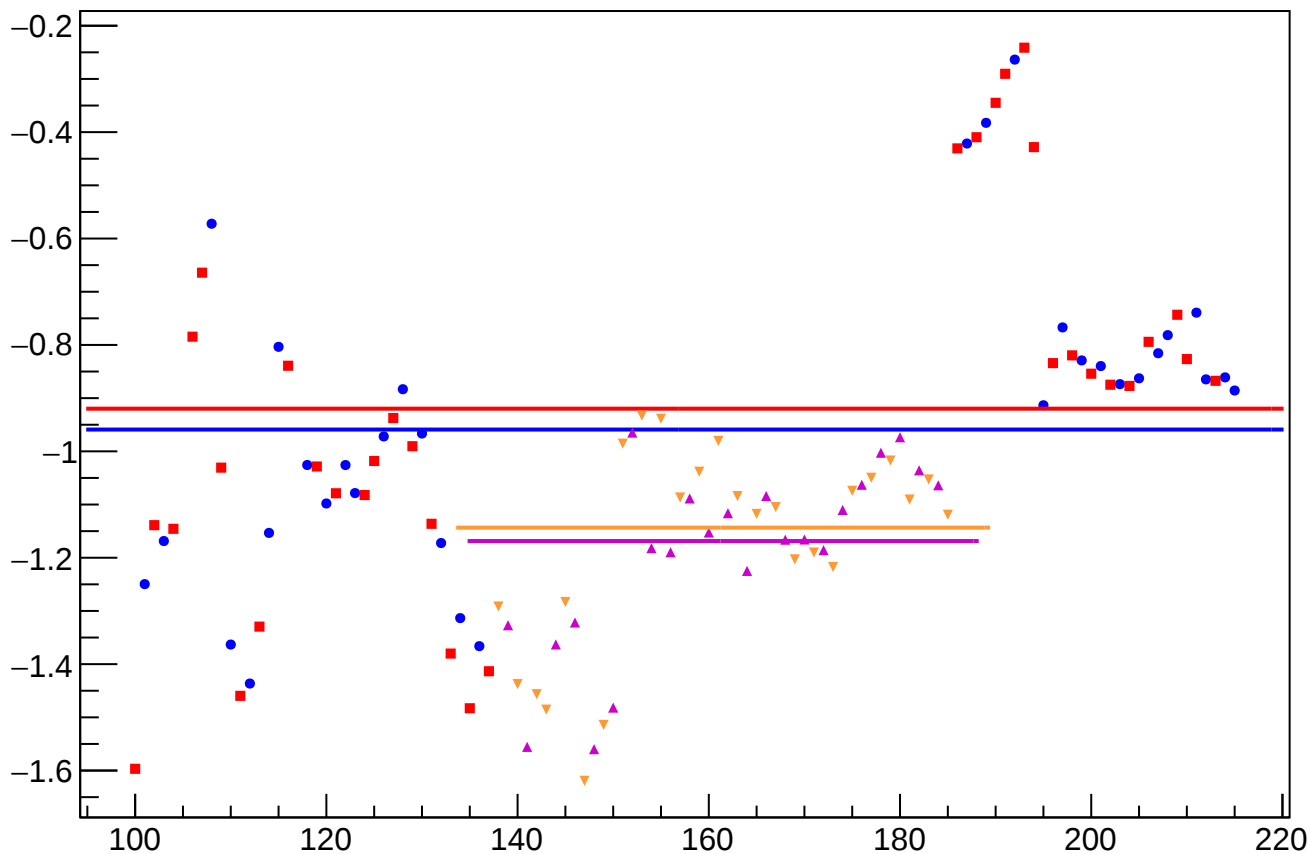
Right: 0.012+/-0.000 χ^2/NDF : 441664.8/65

In: 0.011+/-0.000 χ^2/NDF :746668.0/54

Out: 0.011+/-0.000 χ^2/NDF :642550.8/58

All: 0.011+/-0.000 χ^2/NDF : 1392439.3/113

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.959 ± 0.000 $\chi^2/\text{NDF}: 11487342105.7/31$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.920 ± 0.000 $\chi^2/\text{NDF}: 16091002804.6/33$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

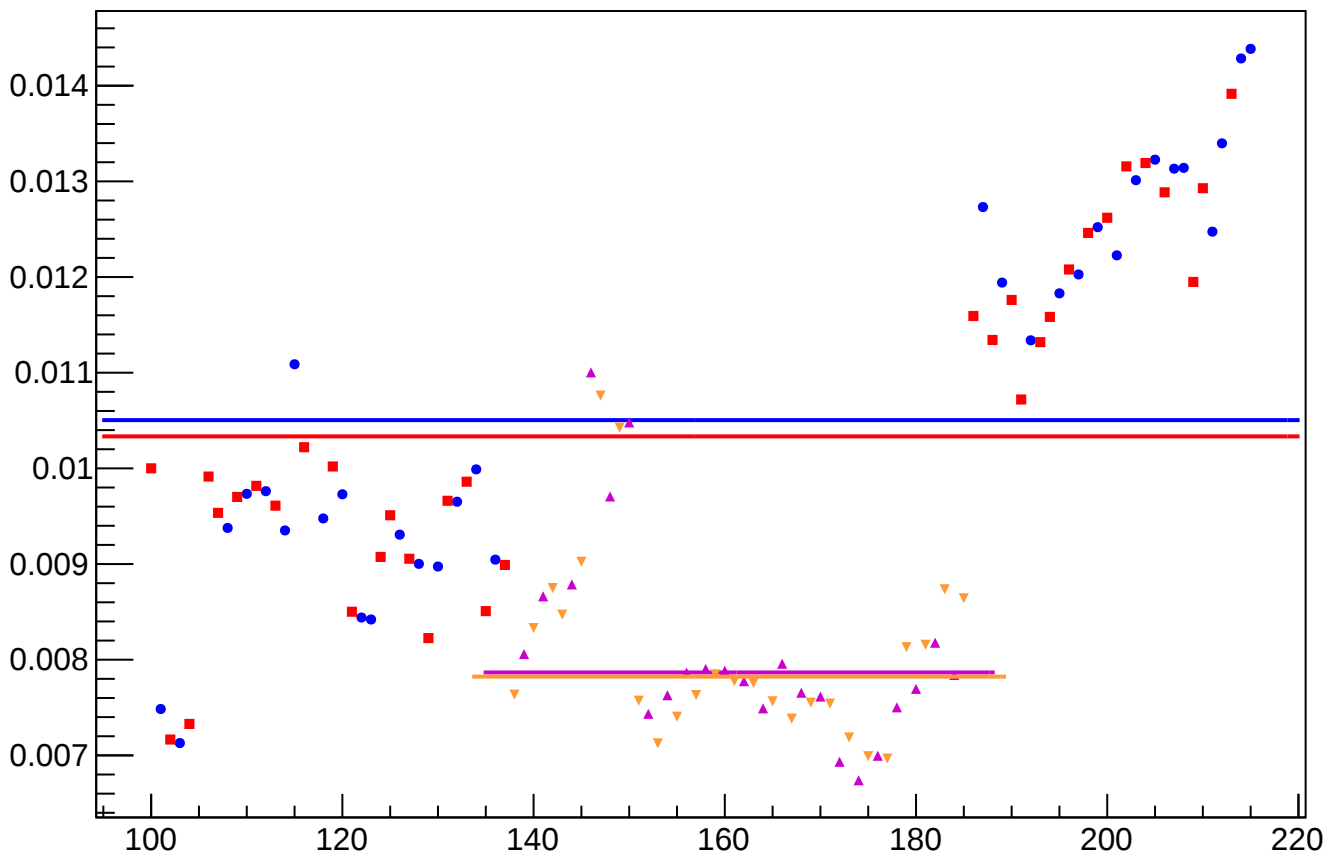
Right: -0.939 ± 0.000 $\chi^2/\text{NDF}: 27692888148.9/65$

In: -1.093 ± 0.000 $\chi^2/\text{NDF}: 21987287454.9/54$

Out: -1.065 ± 0.000 $\chi^2/\text{NDF}: 28965096287.5/58$

All: -1.079 ± 0.000 $\chi^2/\text{NDF}: 51118238637.3/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1322161.5/31

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1100601.8/33

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

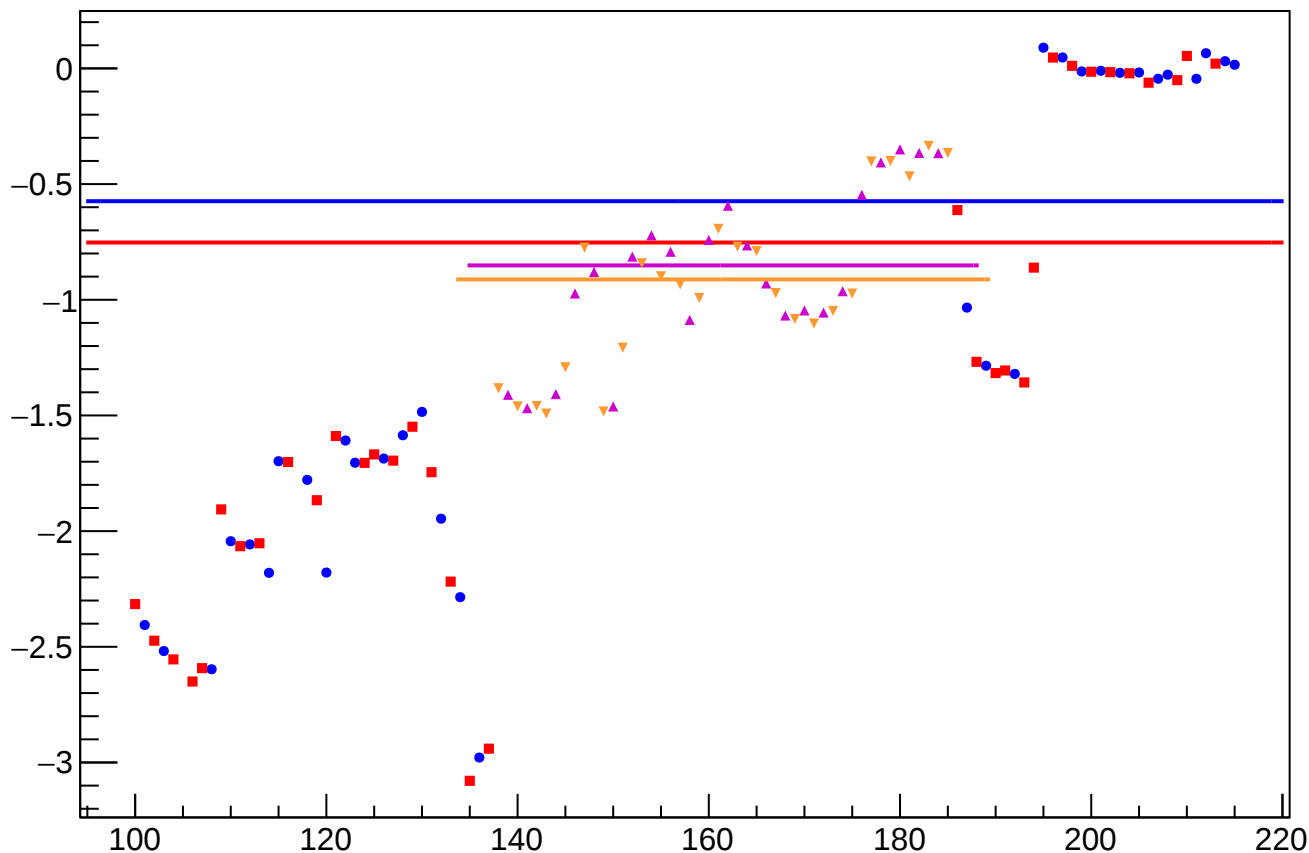
Right: 0.010+/-0.000 χ^2/NDF : 2427071.7/65

In: 0.009+/-0.000 χ^2/NDF : 3012871.0/54

Out: 0.009+/-0.000 χ^2/NDF : 2672636.3/58

All: 0.009+/-0.000 χ^2/NDF : 5690867.5/113

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.574 ± 0.000 $\chi^2/\text{NDF}: 405090601800.3/31$

Left Out: -0.912 ± 0.000 $\chi^2/\text{NDF}: 49039425818.1/24$

Right Out: -0.753 ± 0.000 $\chi^2/\text{NDF}: 420187253668.8/33$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

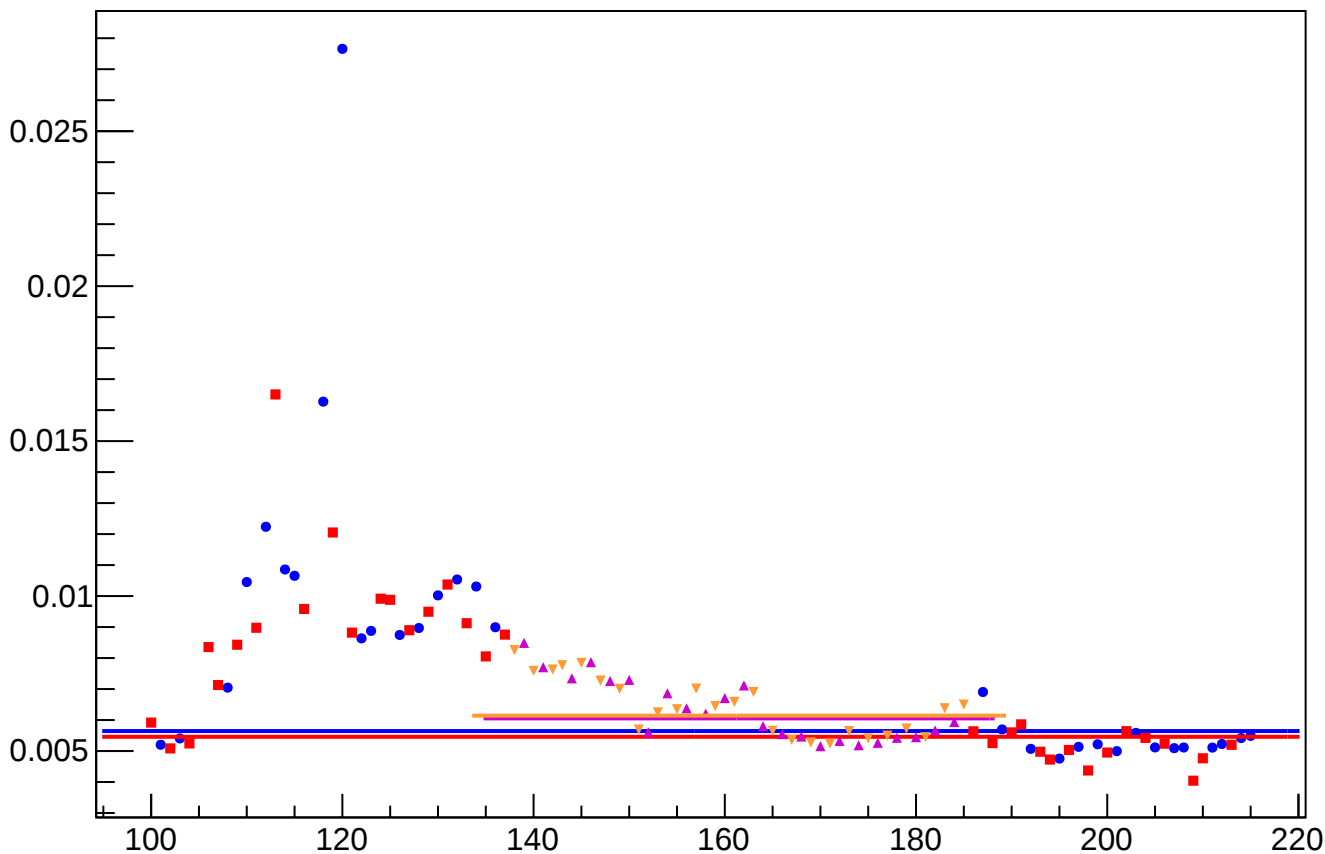
Right: -0.666 ± 0.000 $\chi^2/\text{NDF}: 832775761837.5/65$

In: -0.709 ± 0.000 $\chi^2/\text{NDF}: 468684843951.1/54$

Out: -0.829 ± 0.000 $\chi^2/\text{NDF}: 475133313098.4/58$

All: -0.770 ± 0.000 $\chi^2/\text{NDF}: 950326629598.4$

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2060691.5/31

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2130057.0/33

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

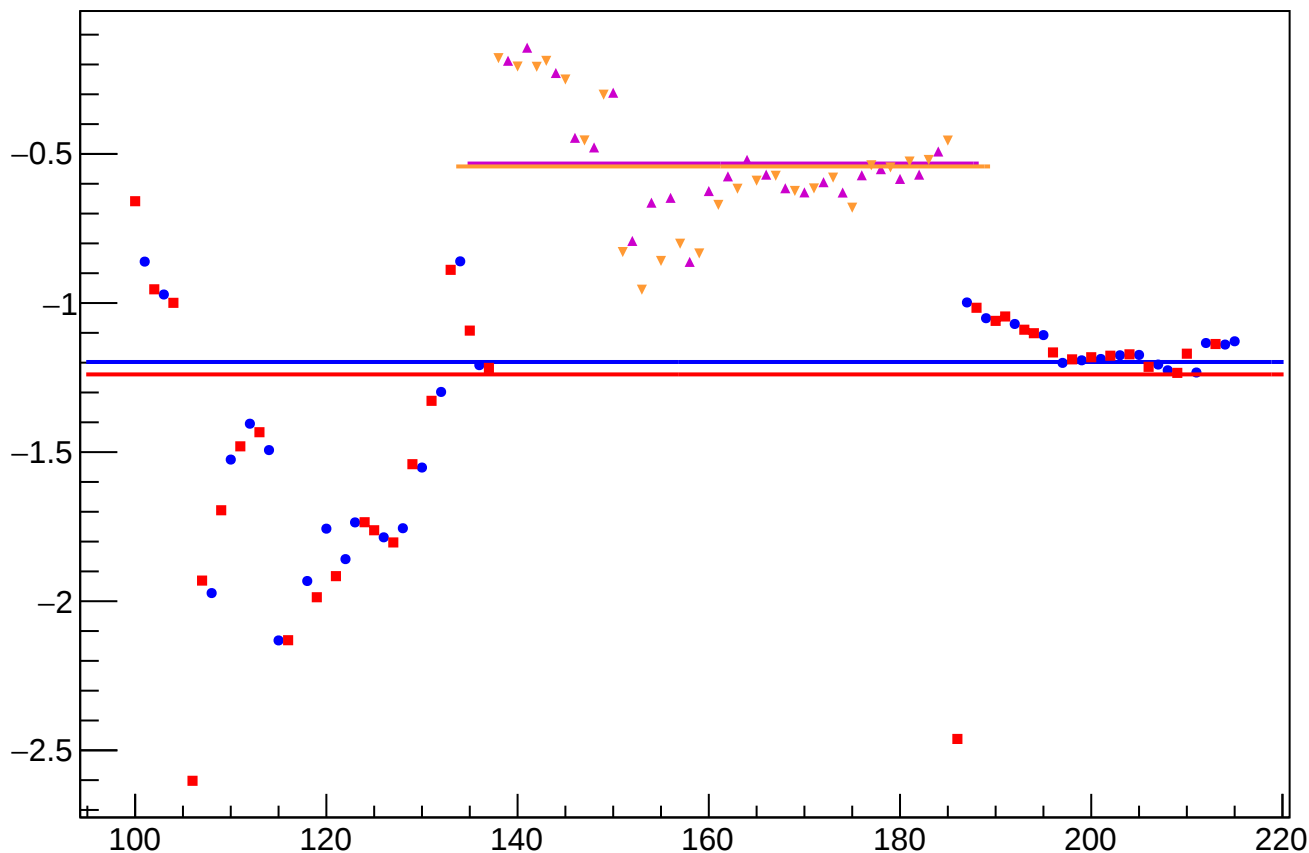
Right: 0.006+/-0.000 χ^2/NDF : 4206765.1/65

In: 0.006+/-0.000 χ^2/NDF :2832585.4/54

Out: 0.006+/-0.000 χ^2/NDF :2983984.6/58

All: 0.006+/-0.000 χ^2/NDF : 5819532.4/113

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.198 ± 0.000 $\chi^2/\text{NDF}: 26913537136.1/31$

Left Out: -0.542 ± 0.000 $\chi^2/\text{NDF}: 47268284910.3/24$

Right Out: -1.239 ± 0.000 $\chi^2/\text{NDF}: 79541584147.8/33$

Left In: -0.532 ± 0.000 $\chi^2/\text{NDF}: 30715235426.8/22$

Left: -0.537 ± 0.000 $\chi^2/\text{NDF}: 78028833870.1/47$

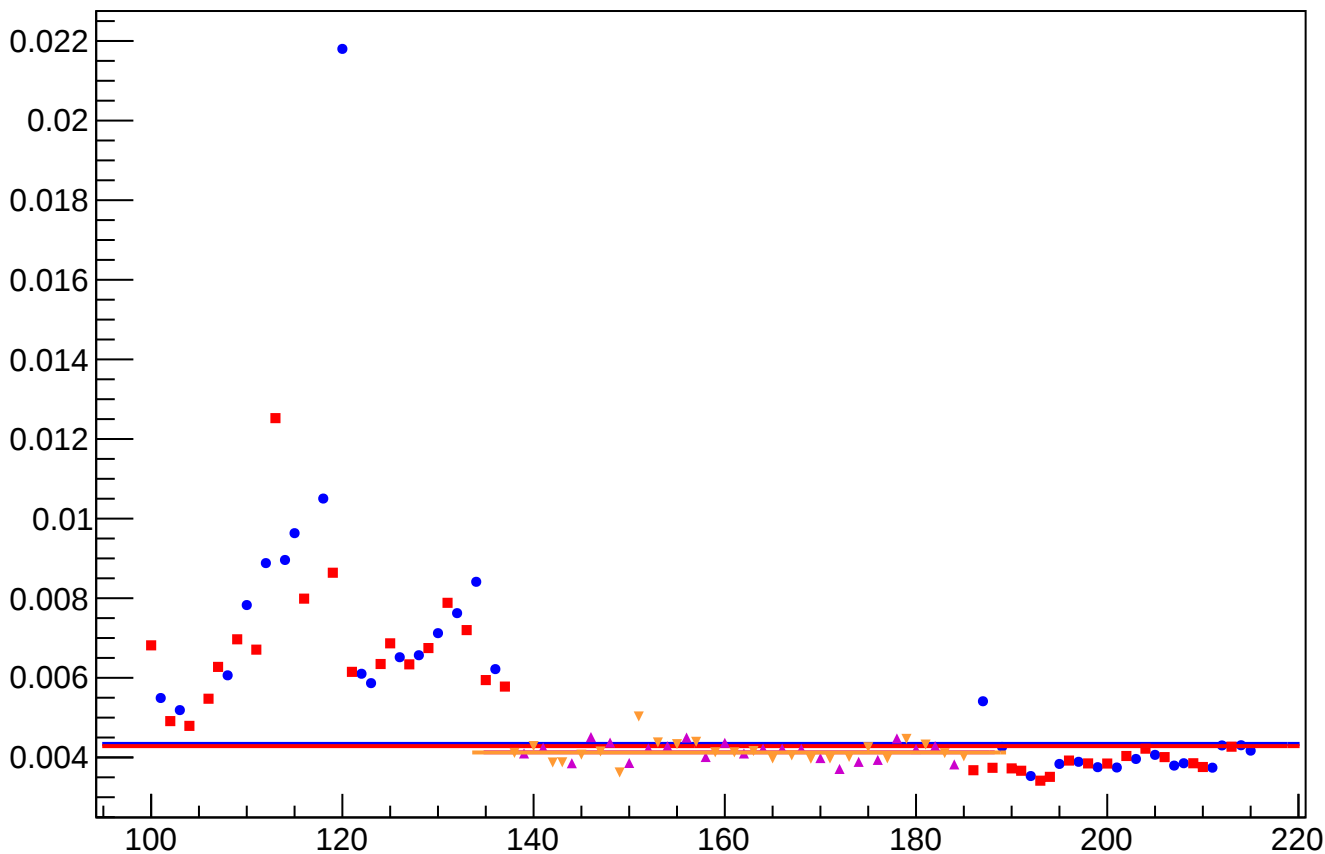
Right: -1.219 ± 0.000 $\chi^2/\text{NDF}: 107129295318.7/65$

In: -0.833 ± 0.000 $\chi^2/\text{NDF}: 244807121866.6/54$

Out: -0.850 ± 0.000 $\chi^2/\text{NDF}: 339812604769.6/58$

All: -0.841 ± 0.000 $\chi^2/\text{NDF}: 584879501773.0$

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2071962.5/31

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1889295.5/33

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

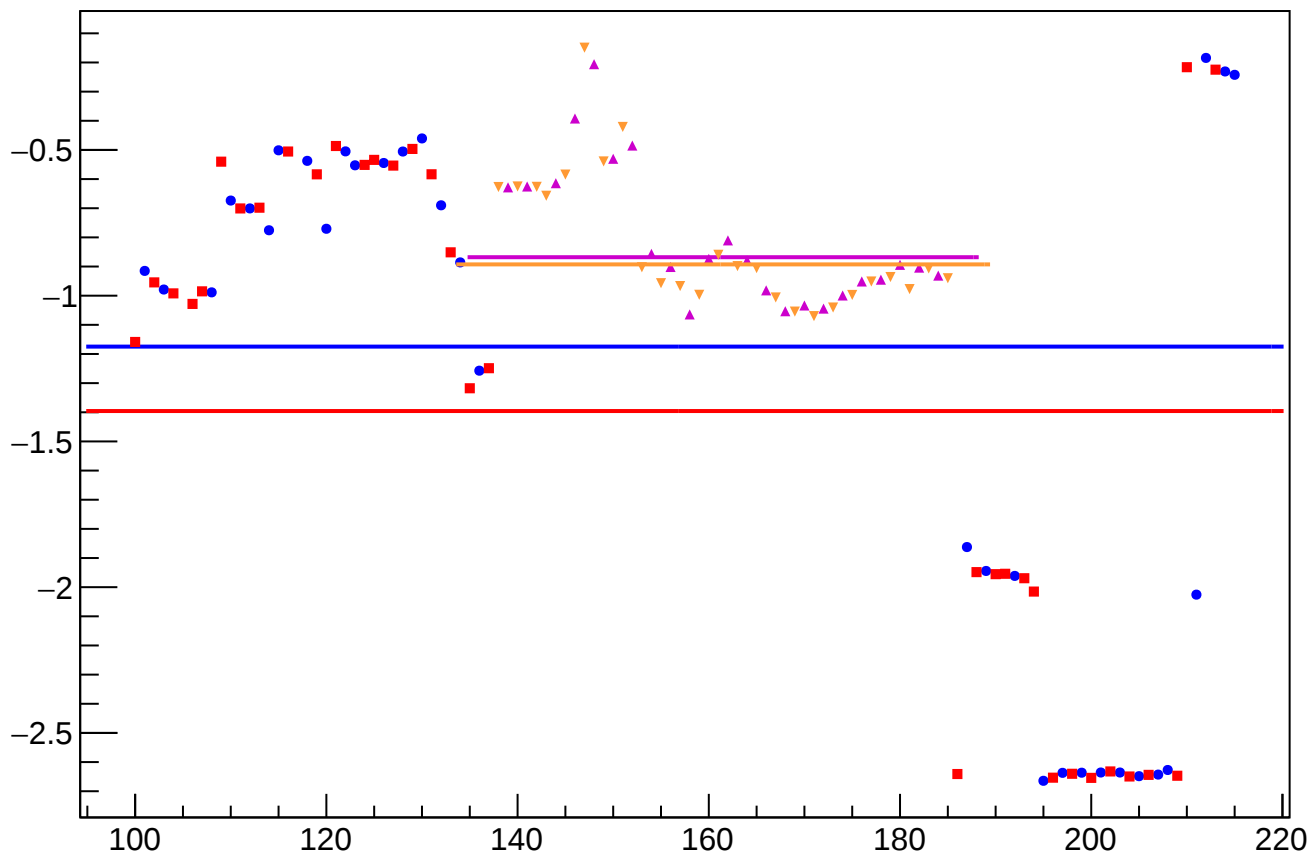
Right: 0.004+/-0.000 χ^2/NDF : 3963672.0/65

In: 0.004+/-0.000 χ^2/NDF :2202303.0/54

Out: 0.004+/-0.000 χ^2/NDF :2024590.0/58

All: 0.004+/-0.000 χ^2/NDF : 4228420.7/113

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.175+/-0.000 χ^2/NDF : 542364286804.8/31

Left Out: -0.893+/-0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.396+/-0.000 χ^2/NDF : 590587816086.1/33

Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000 χ^2/NDF : 84980637247.0/47

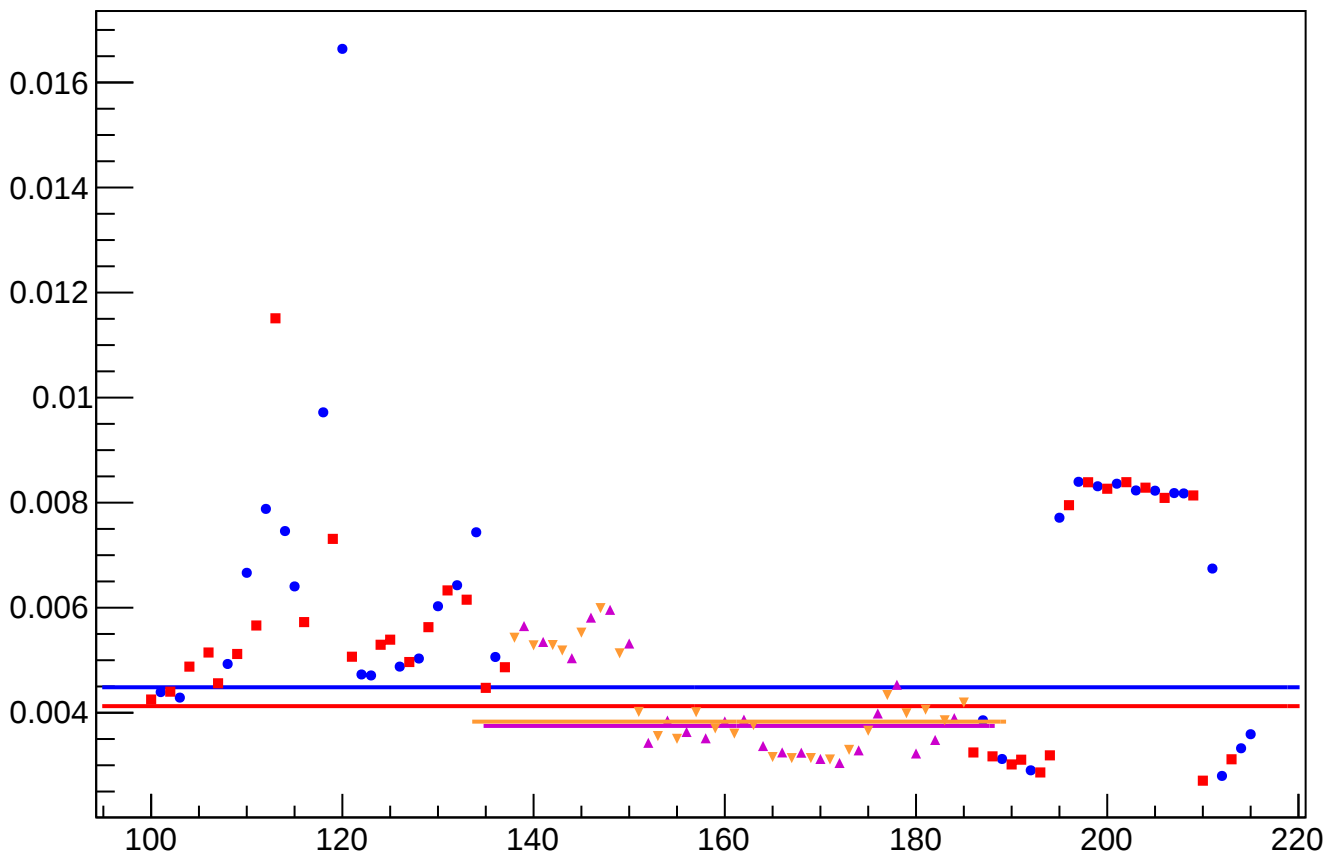
Right: -1.295+/-0.000 χ^2/NDF : 1150867495896.7/6

In: -0.984+/-0.000 χ^2/NDF : 625830698356.5/54

Out: -1.102+/-0.000 χ^2/NDF : 749796234479.0/58

All: -1.045+/-0.000 χ^2/NDF : 1388565559422

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 5060983.4/31

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4712771.9/33

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

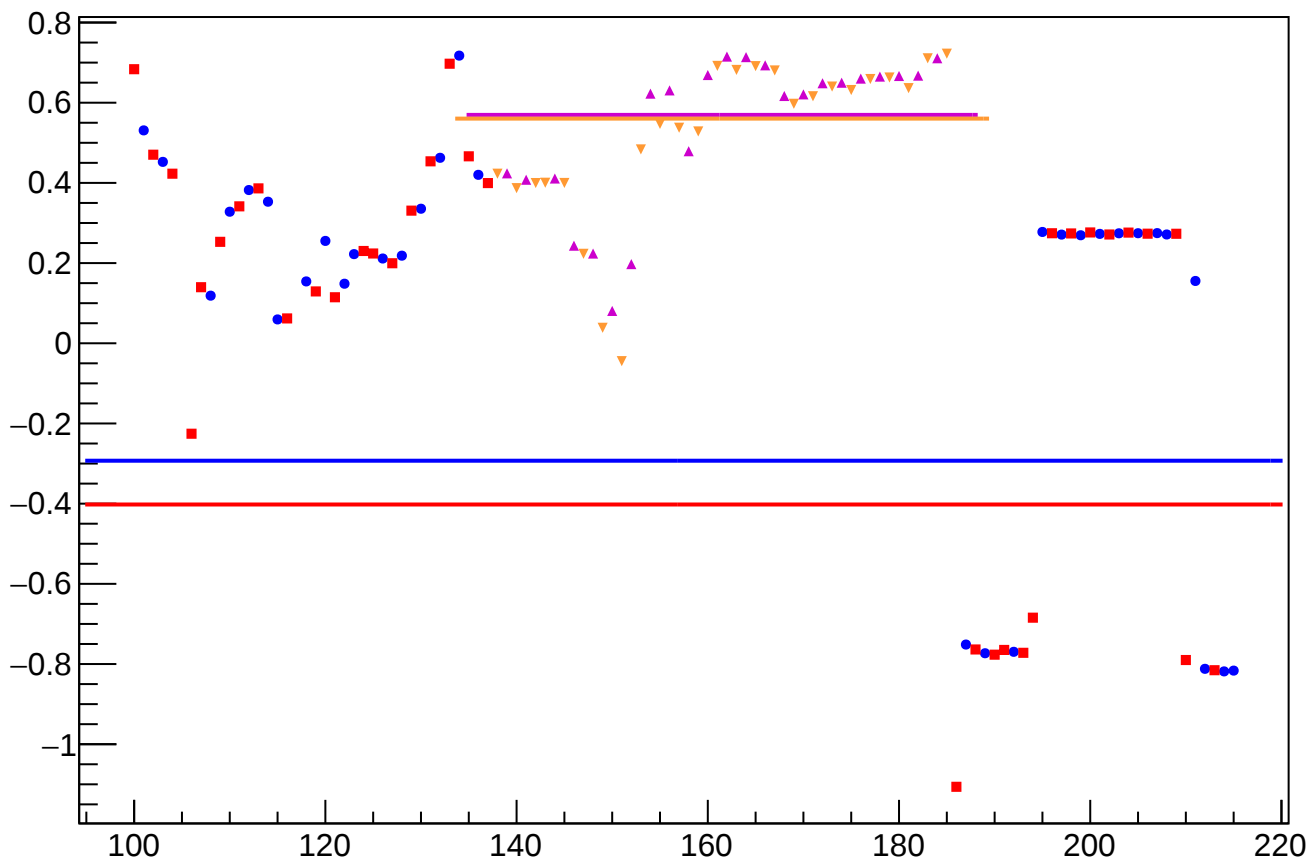
Right: 0.004+/-0.000 χ^2/NDF : 9868581.8/65

In: 0.004+/-0.000 χ^2/NDF :6806081.7/54

Out: 0.004+/-0.000 χ^2/NDF :5973937.7/58

All: 0.004+/-0.000 χ^2/NDF : 12790037.2/113

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.293+/-0.000 χ^2/NDF : 446655557599.8/31

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.402+/-0.000 χ^2/NDF : 515809360427.2/33

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

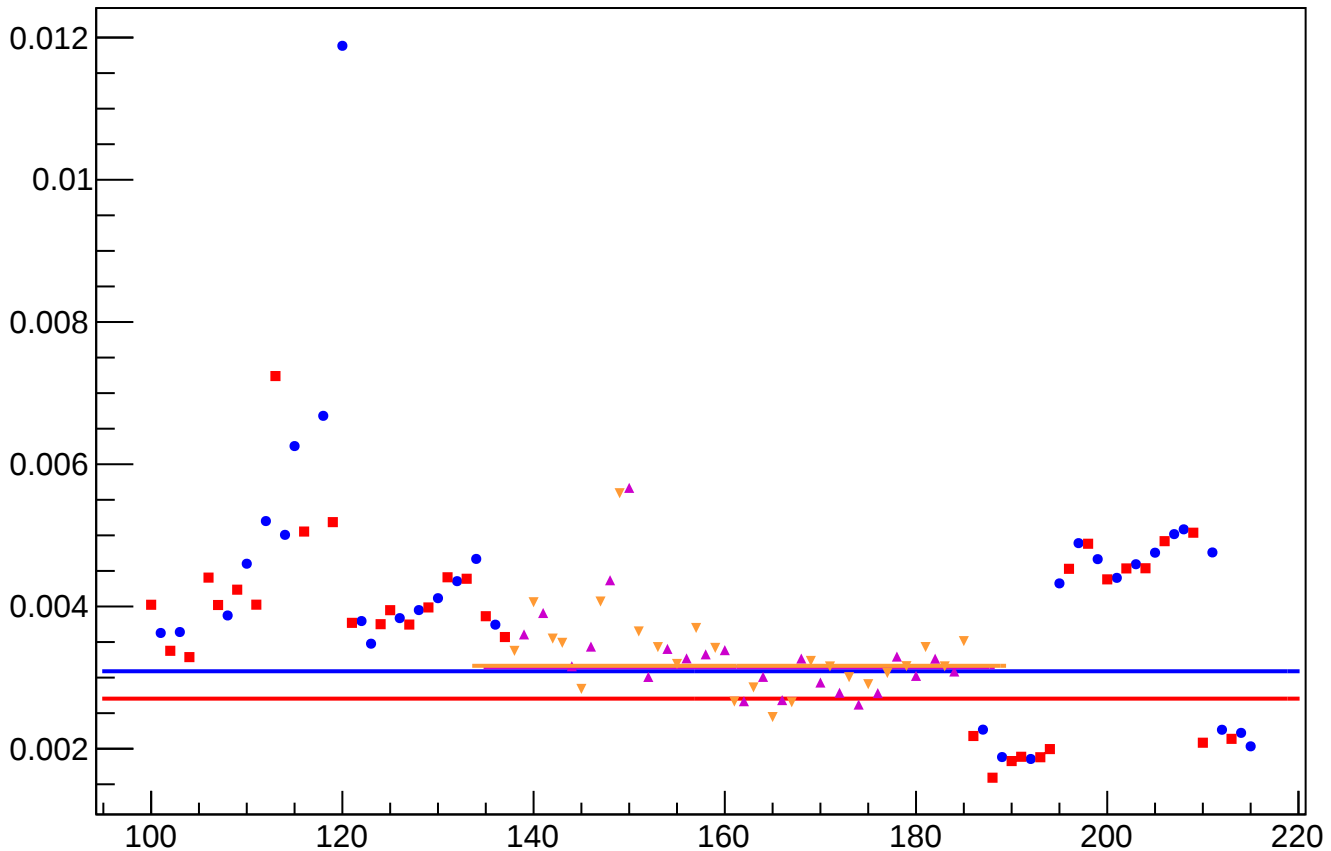
Right: -0.354+/-0.000 χ^2/NDF : 972077900084.2/65

In: 0.154+/-0.000 χ^2/NDF : 1047717150385.1/54

Out: 0.052+/-0.000 χ^2/NDF : 1353376842537.3/58

All: 0.099+/-0.000 χ^2/NDF : 2417745738732.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003 ± 0.000 $\chi^2/\text{NDF}: 4528650.2/31$

Left Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 744886.7/24$

Right Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 5024490.5/33$

Left In: 0.003 ± 0.000 $\chi^2/\text{NDF}: 716402.8/22$

Left: 0.003 ± 0.000 $\chi^2/\text{NDF}: 1461906.1/47$

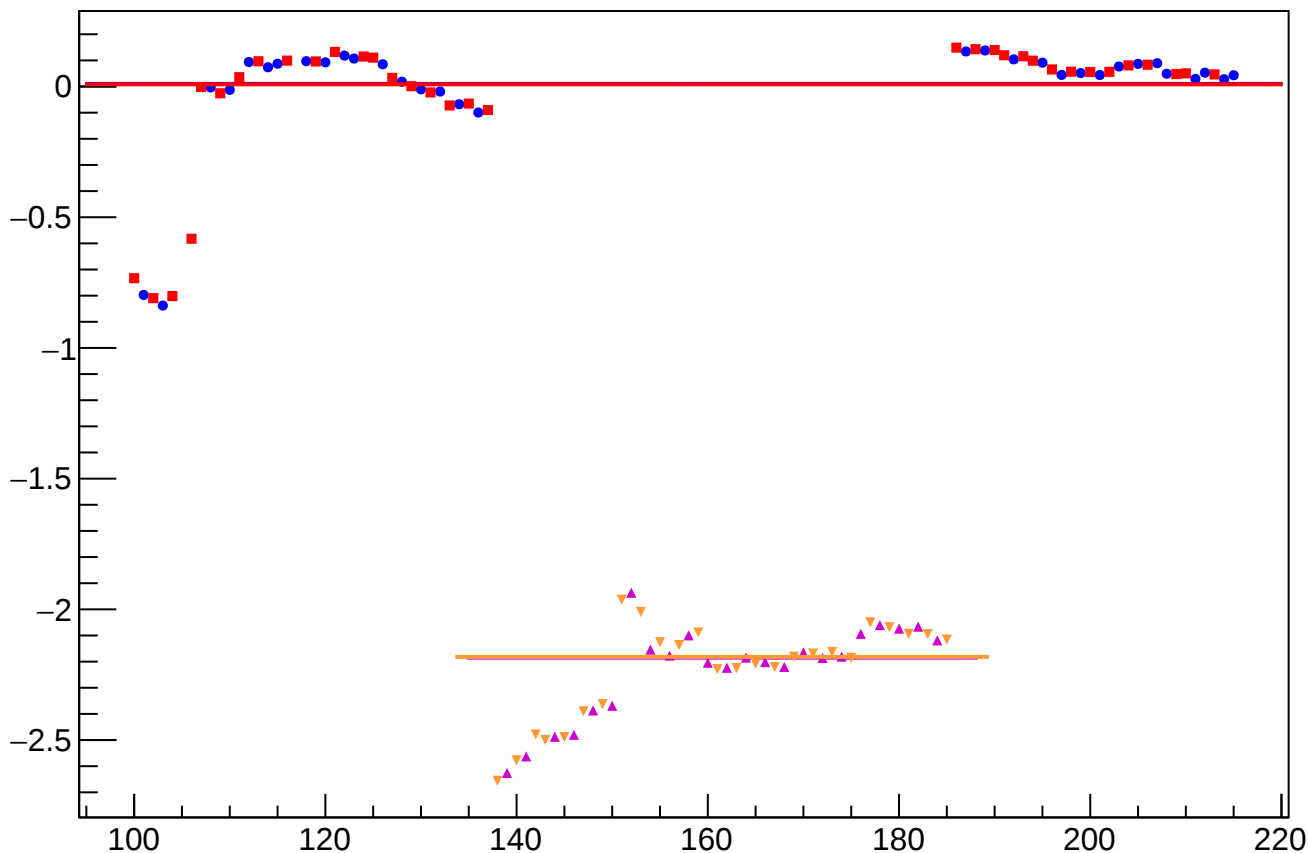
Right: 0.003 ± 0.000 $\chi^2/\text{NDF}: 9792112.6/65$

In: 0.003 ± 0.000 $\chi^2/\text{NDF}: 5249957.9/54$

Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 6134265.9/58$

All: 0.003 ± 0.000 $\chi^2/\text{NDF}: 11508399.2/113$

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010+/-0.000

χ^2/NDF : 5917460731.5/31

Left: -2.183+/-0.000

χ^2/NDF : 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2/NDF : 4008829567.0/24

Right: 0.009+/-0.000

χ^2/NDF : 12901123612.9/65

Right Out: 0.008+/-0.000

χ^2/NDF : 6983479600.3/33

In: -1.121+/-0.000

χ^2/NDF : 376859821163.5/54

Out: -1.139+/-0.000

χ^2/NDF : 394230886192.2/58

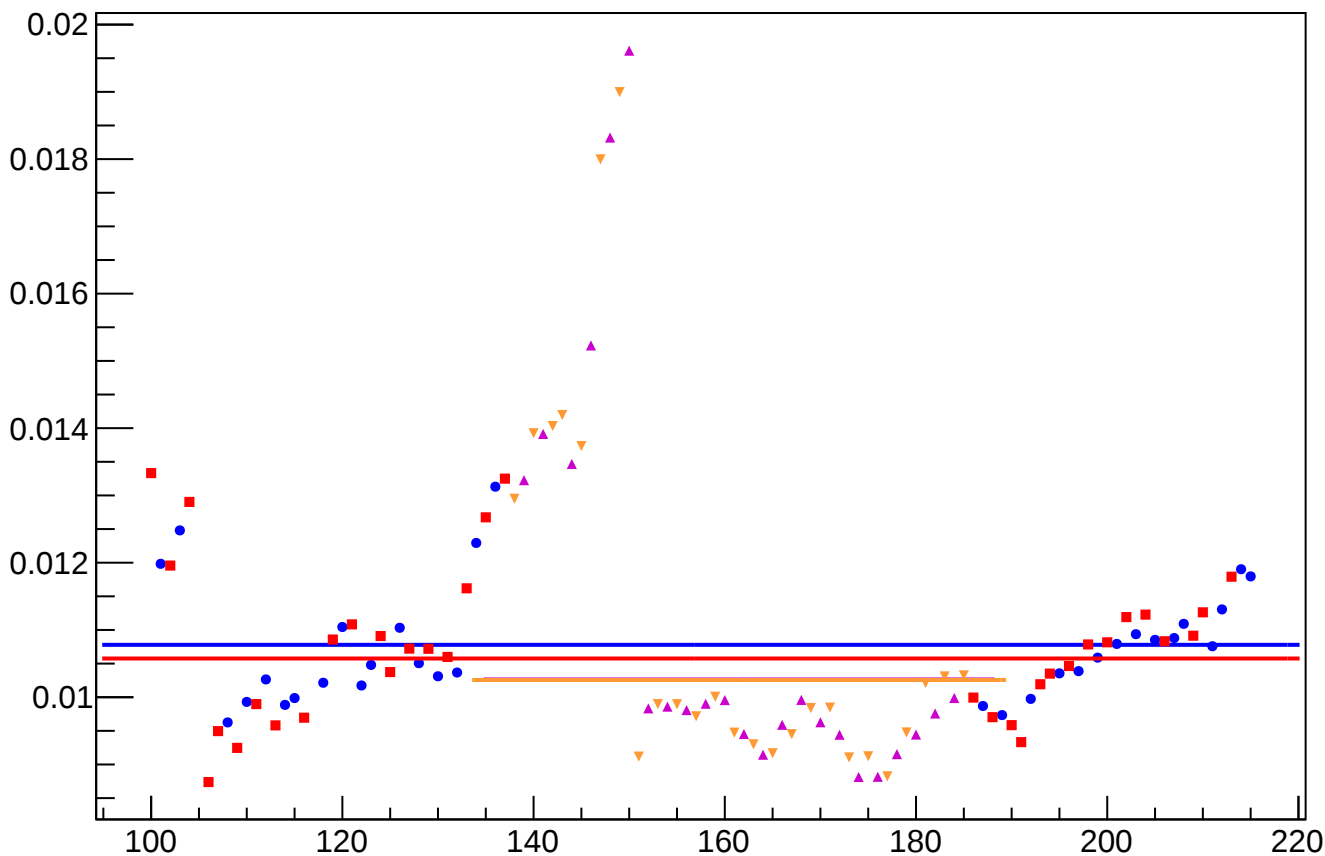
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.130+/-0.000

χ^2/NDF : 771141439209.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 183487.6/31

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 247355.9/33

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

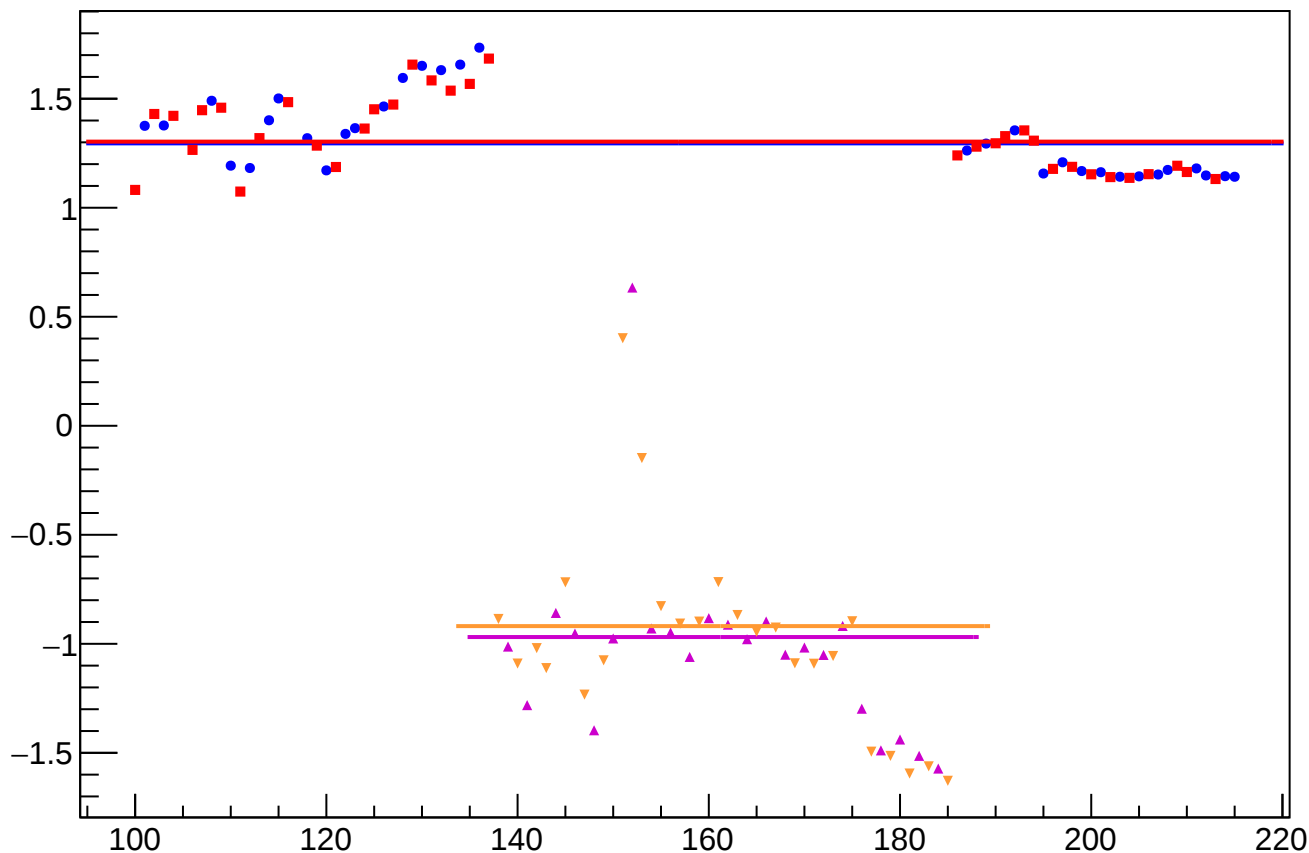
Right: 0.011+/-0.000 χ^2/NDF : 437064.2/65

In: 0.011+/-0.000 χ^2/NDF :1564170.6/54

Out: 0.010+/-0.000 χ^2/NDF :1534289.6/58

All: 0.010+/-0.000 χ^2/NDF : 3101953.5/113

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.295 $\pm$ 0.000 χ^2 /NDF: 8571290019.7/31

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.303 $\pm$ 0.000 χ^2 /NDF: 6502505422.5/33

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110825900215.1/47

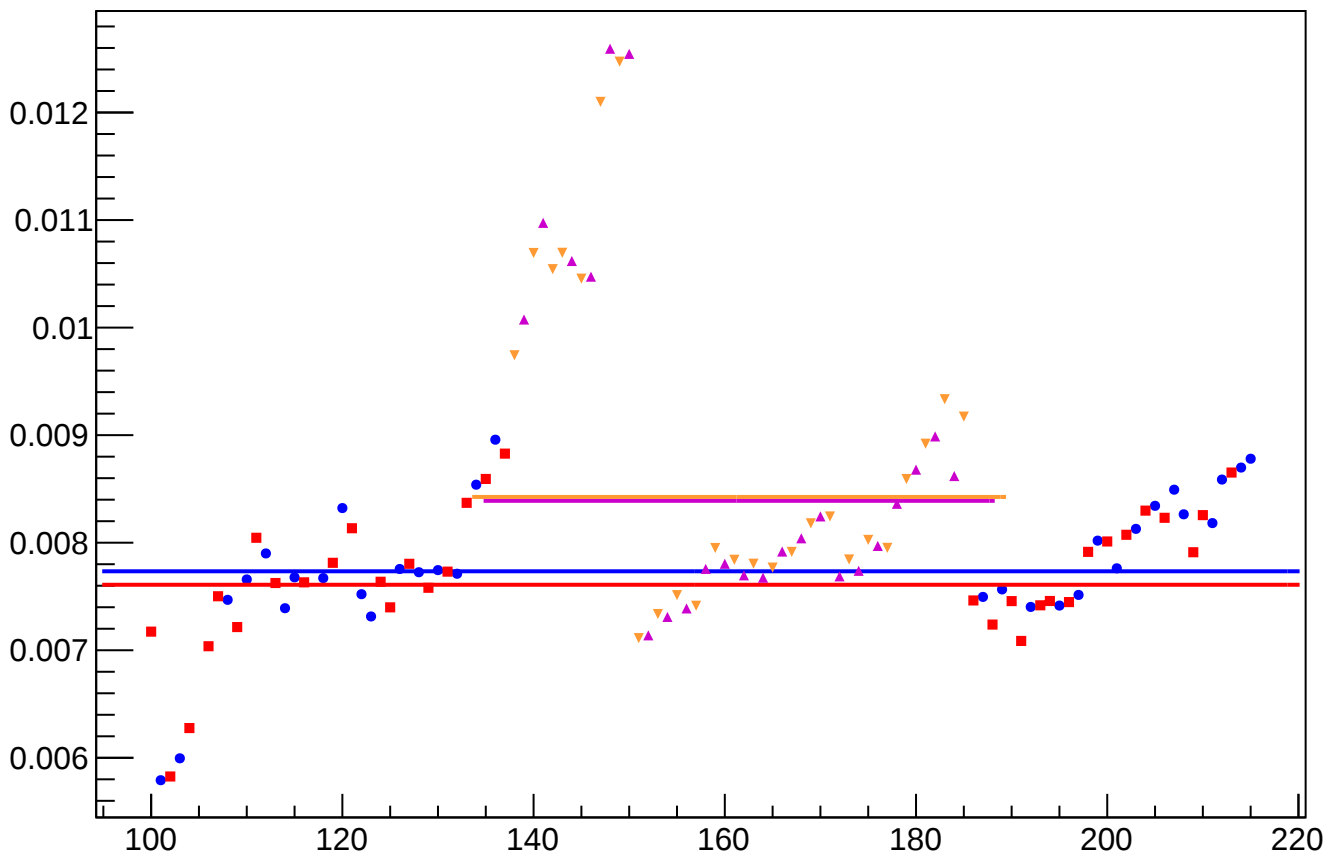
Right: 1.299 $\pm$ 0.000 χ^2 /NDF: 15082986832.6/65

In: 0.264 $\pm$ 0.000 χ^2 /NDF: 731960844637.0/54

Out: 0.280 $\pm$ 0.000 χ^2 /NDF: 733487333208.2/58

All: 0.272 $\pm$ 0.000 χ^2 /NDF: 1465512168703.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 363355.3/31

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 260066.2/33

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

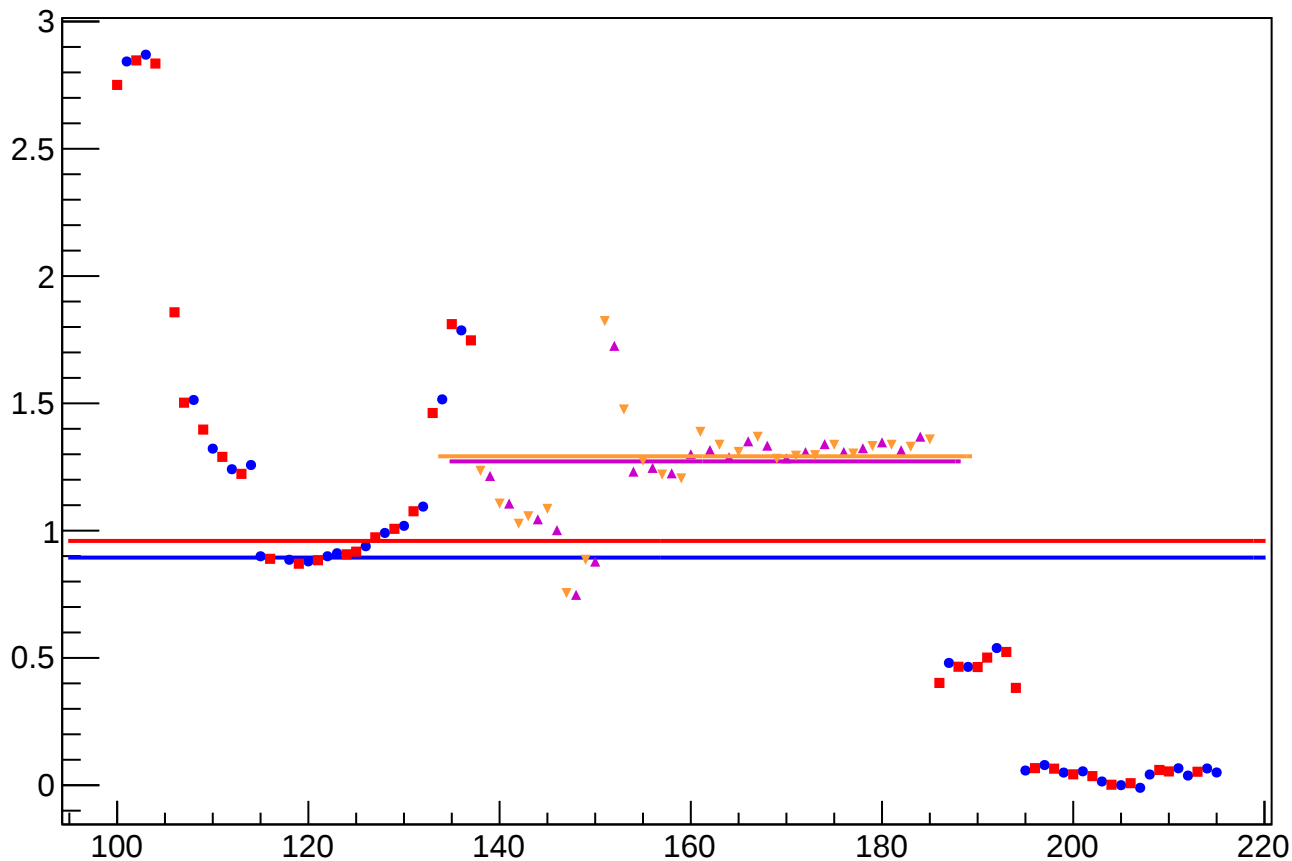
Right: 0.008+/-0.000 χ^2/NDF : 627982.9/65

In: 0.008+/-0.000 χ^2/NDF : 1315217.7/54

Out: 0.008+/-0.000 χ^2/NDF : 1233735.4/58

All: 0.008+/-0.000 χ^2/NDF : 2550163.7/113

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.894+/-0.000 χ^2/NDF : 142507826524.3/31

Left Out: 1.292+/-0.000 χ^2/NDF : 9305298695.5/24

Right Out: 0.960+/-0.000 χ^2/NDF : 132467826342.6/33

Left In: 1.272+/-0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282+/-0.000 χ^2/NDF : 16930321584.4/47

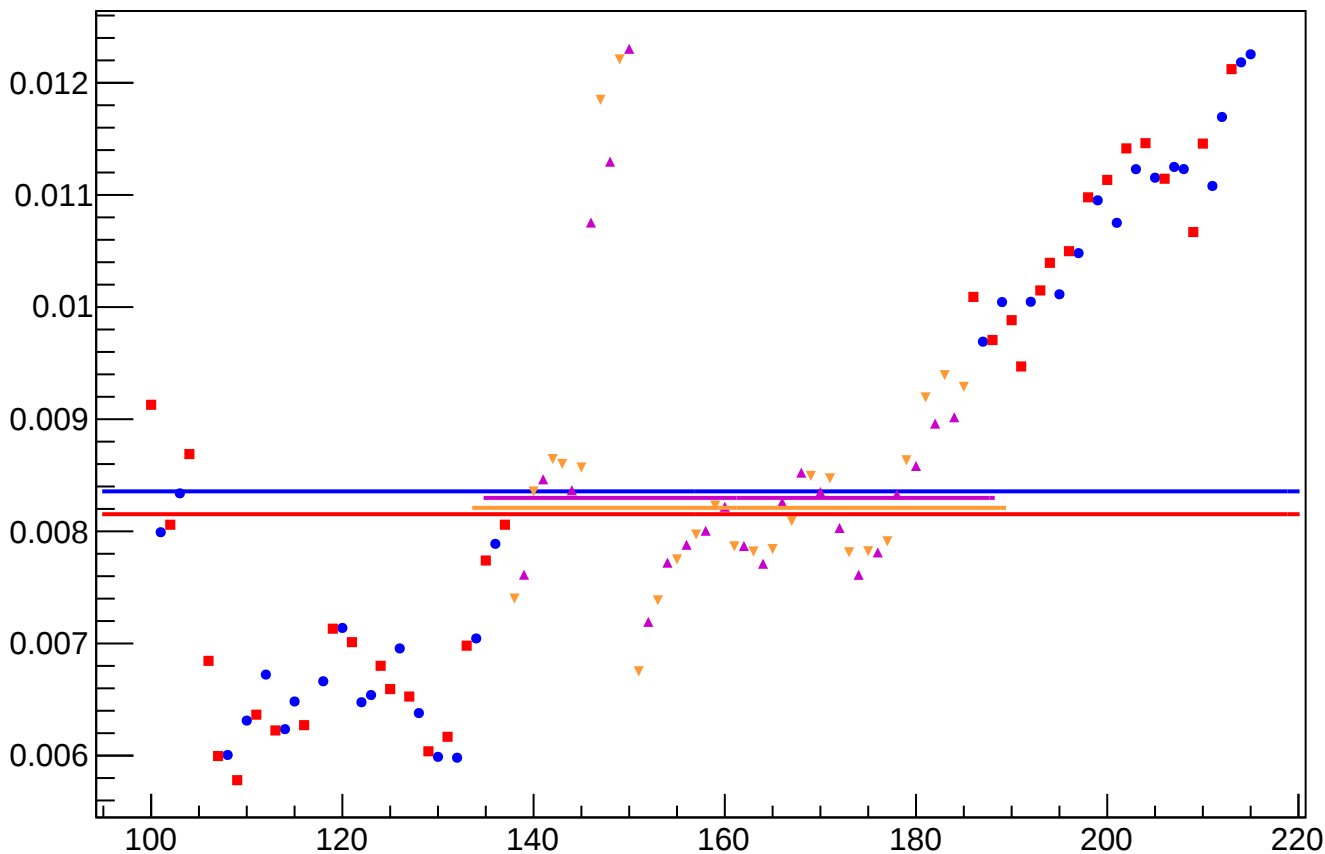
Right: 0.928+/-0.000 χ^2/NDF : 275485135233.3/65

In: 1.087+/-0.000 χ^2/NDF : 167065293887.5/54

Out: 1.132+/-0.000 χ^2/NDF : 155739752245.6/58

All: 1.111+/-0.000 χ^2/NDF : 323298994229.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2137698.4/31

Left Out: 0.008+/-0.000 χ^2/NDF :478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2068295.7/33

Left In: 0.008+/-0.000 χ^2/NDF :462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

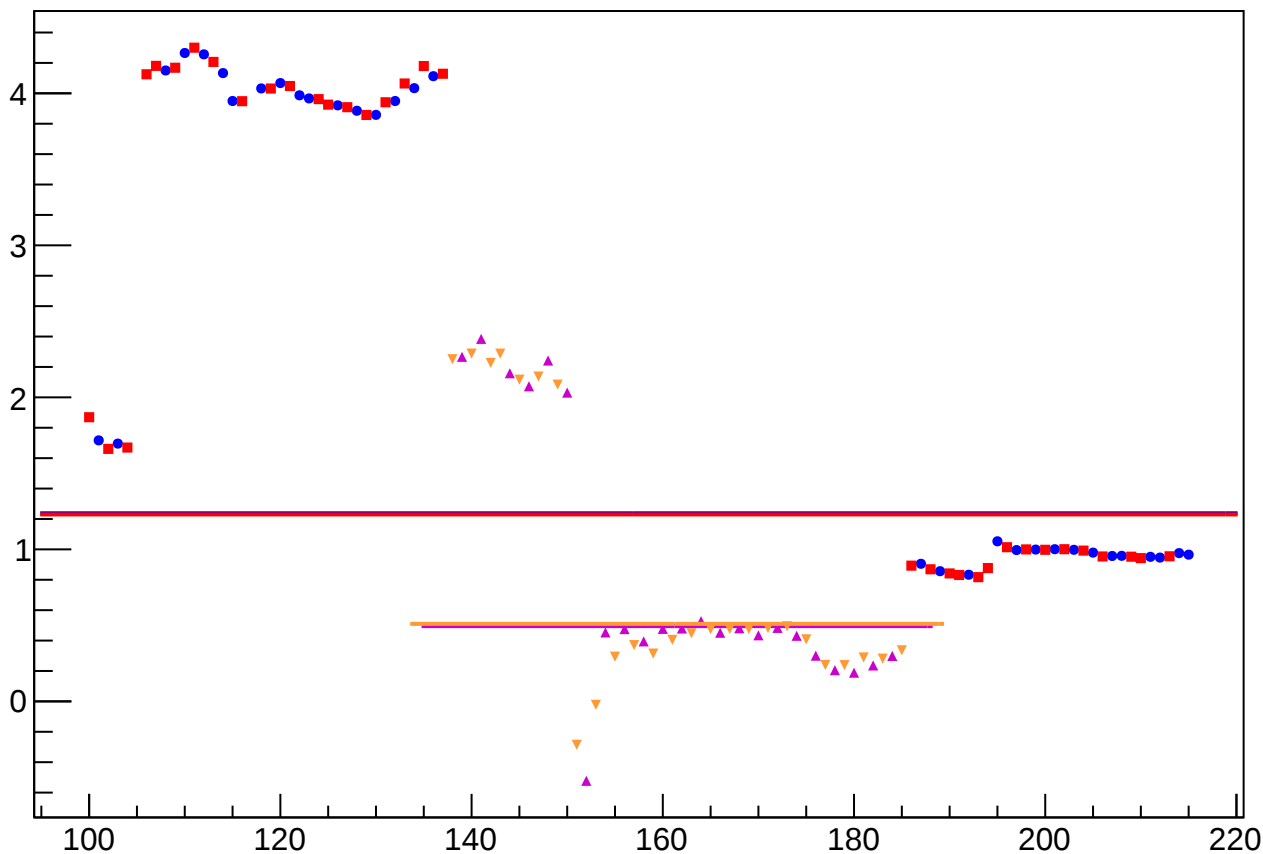
Right: 0.008+/-0.000 χ^2/NDF : 4215867.6/65

In: 0.008+/-0.000 χ^2/NDF :2600528.7/54

Out: 0.008+/-0.000 χ^2/NDF :2547973.6/58

All: 0.008+/-0.000 χ^2/NDF : 5158745.0/113

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.237 $\pm$ 0.000 χ^2 /NDF: 1533139010675.9/31

Left Out: 0.510 $\pm$ 0.000 χ^2 /NDF: 274818814912.4/24

Right Out: 1.230 $\pm$ 0.000 χ^2 /NDF: 1716529455397.1/33

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

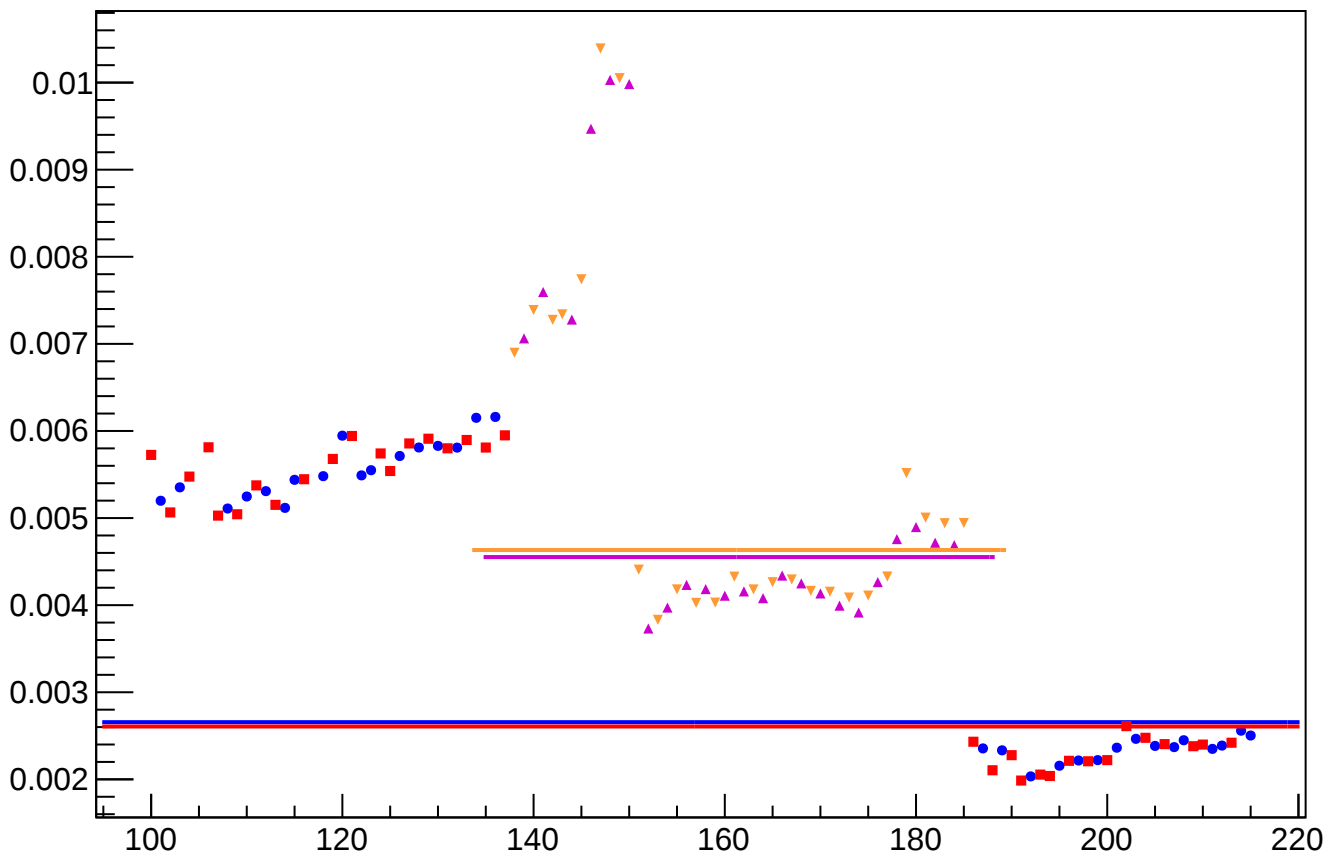
Right: 1.234 $\pm$ 0.000 χ^2 /NDF: 3249729099970.6/65

In: 1.037 $\pm$ 0.000 χ^2 /NDF: 2107092364220.1/54

Out: 1.035 $\pm$ 0.000 χ^2 /NDF: 2284698456078.5/58

All: 1.036 $\pm$ 0.000 χ^2 /NDF: 4391799968076.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 4190984.2/31

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2114007.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 4474345.7/33

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4356682.7/47

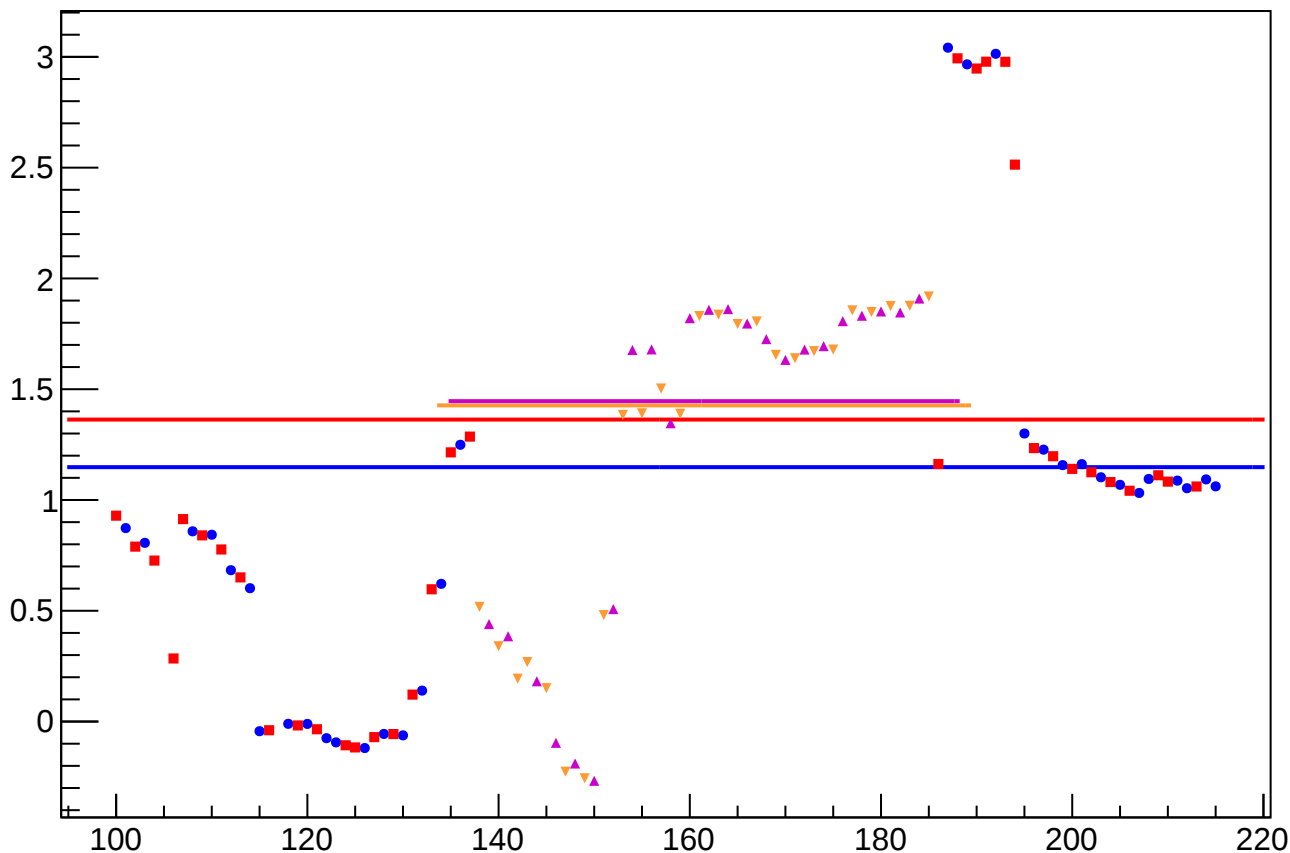
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 8670466.8/65

In: 0.003 $\pm$ 0.000 χ^2 /NDF:10407505.5/54

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:11238253.6/58

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 21646156.6/113

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.148 $\pm$ 0.000 χ^2 /NDF: 72900934801.1/31

Left Out: 1.427 $\pm$ 0.000 χ^2 /NDF: 49990787038.3/24

Right Out: 1.363 $\pm$ 0.000 χ^2 /NDF: 101181373221.0/33

Left In: 1.446 $\pm$ 0.000 χ^2 /NDF: 53752493130.3/22

Left: 1.436 $\pm$ 0.000 χ^2 /NDF: 103768857952.7/47

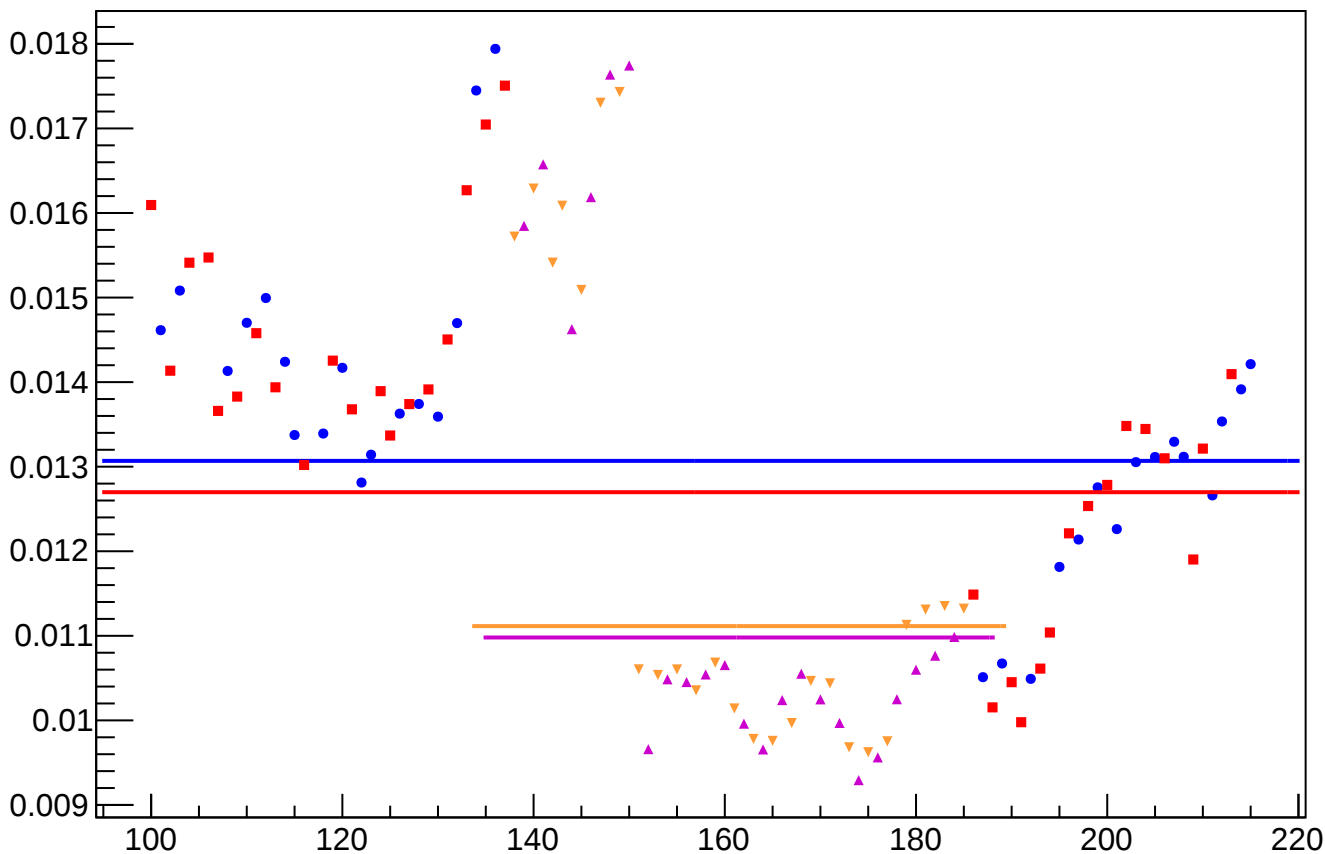
Right: 1.258 $\pm$ 0.000 χ^2 /NDF: 176424727174.0/65

In: 1.321 $\pm$ 0.000 χ^2 /NDF: 131773919734.7/54

Out: 1.400 $\pm$ 0.000 χ^2 /NDF: 151417609040.7/58

All: 1.361 $\pm$ 0.000 χ^2 /NDF: 283944812813.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 454872.1/31

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 583366.2/33

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264827.0/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2494847.1/47

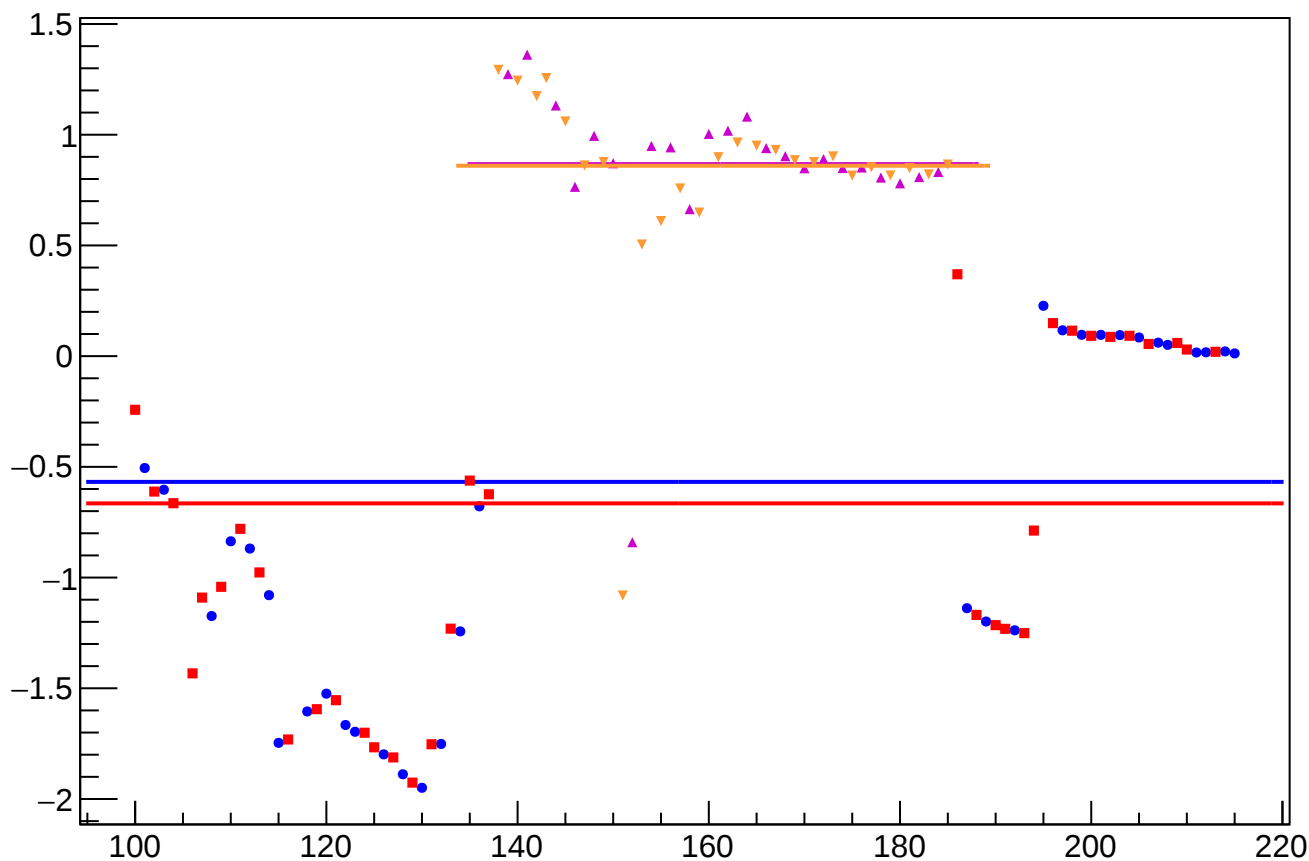
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 1052169.0/65

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2222992.6/54

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2111600.9/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4335949.6/113

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.568 ± 0.000 $\chi^2/\text{NDF}: 199281457721.3/31$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -0.665 ± 0.000 $\chi^2/\text{NDF}: 180119658750.2/33$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

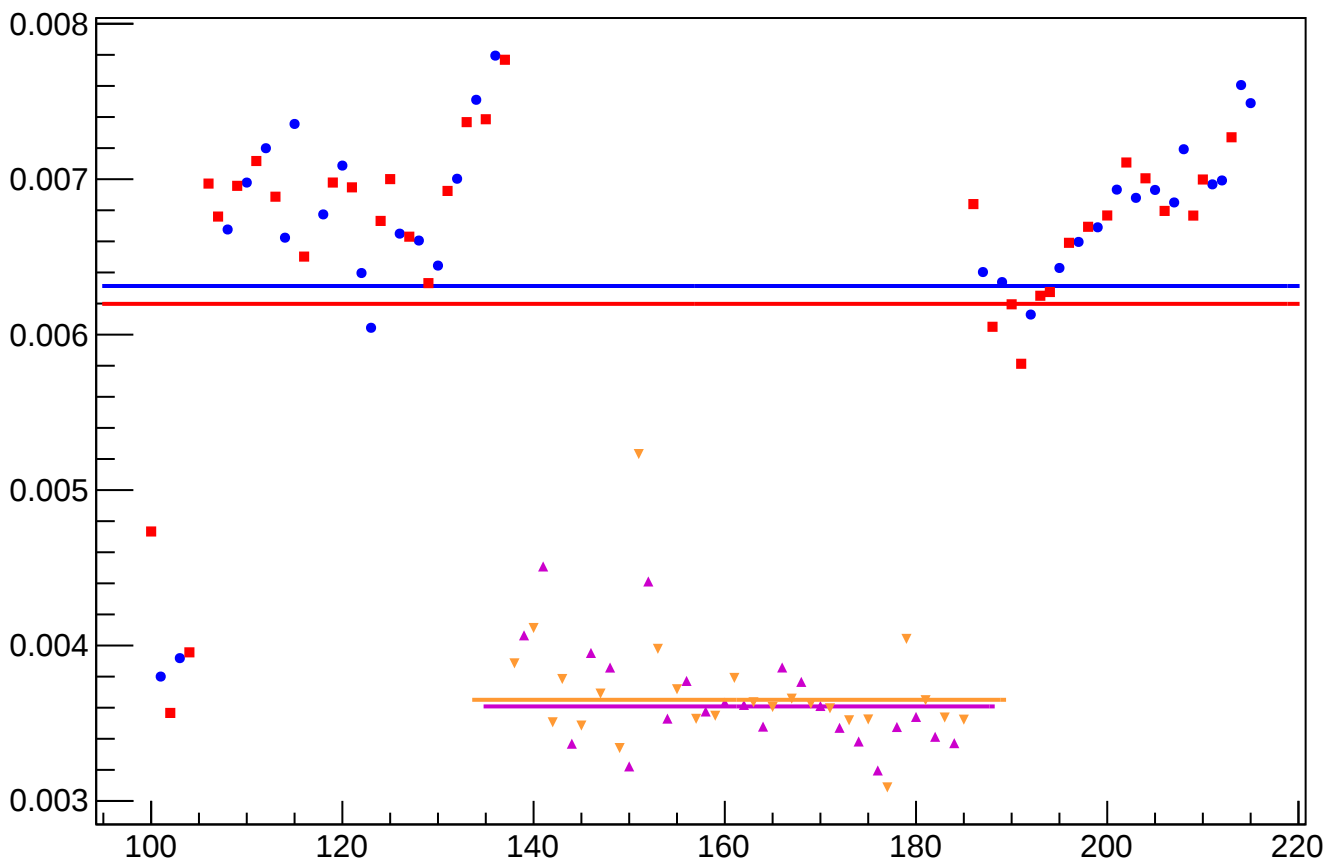
Right: -0.617 ± 0.000 $\chi^2/\text{NDF}: 381326135769.1/65$

In: 0.508 ± 0.000 $\chi^2/\text{NDF}: 968637304361.3/54$

Out: 0.482 ± 0.000 $\chi^2/\text{NDF}: 1028981576823.7/58$

All: 0.495 ± 0.000 $\chi^2/\text{NDF}: 1998175006926.0$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1139958.3/31

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1153690.3/33

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

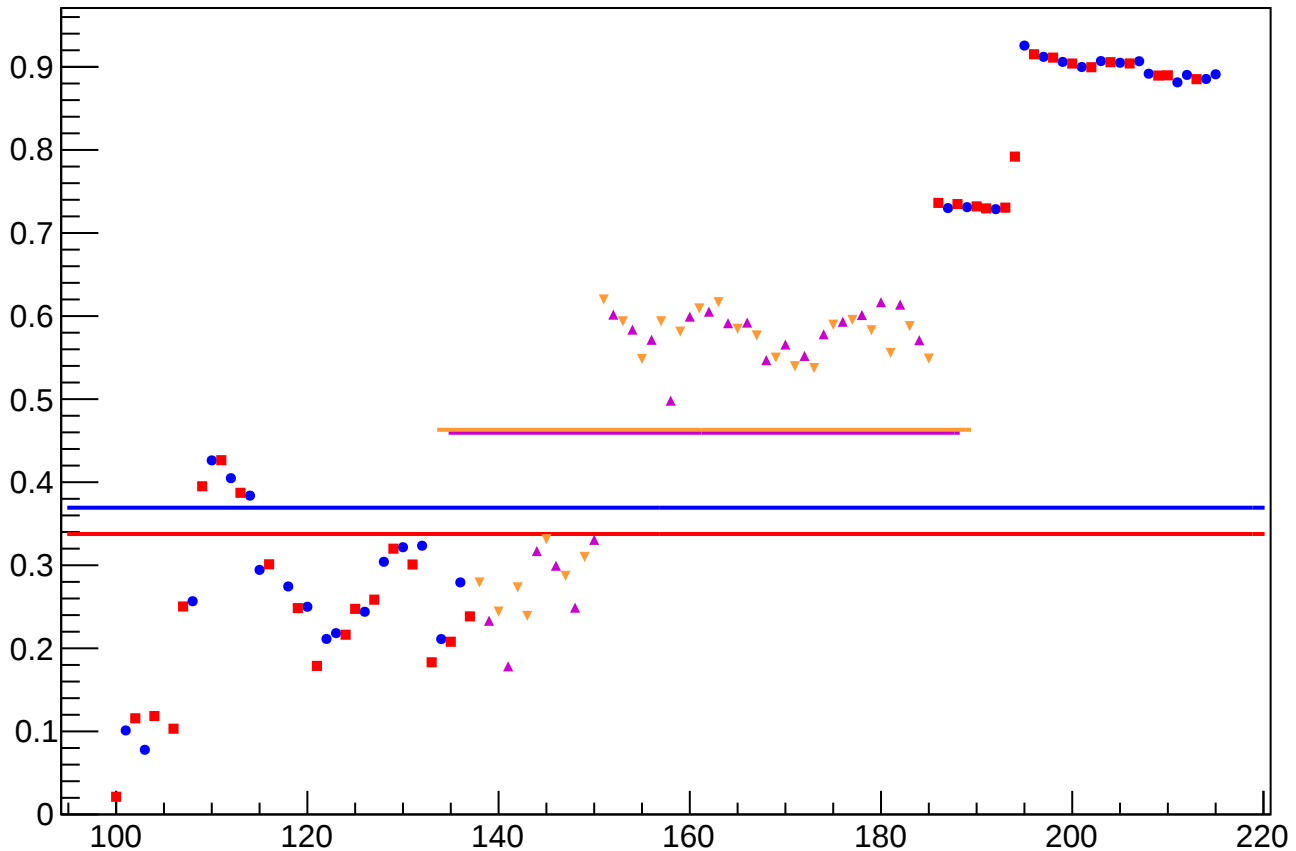
Right: 0.006+/-0.000 χ^2/NDF : 2299042.8/65

In: 0.004+/-0.000 χ^2/NDF :5789609.4/54

Out: 0.004+/-0.000 χ^2/NDF :5423155.9/58

All: 0.004+/-0.000 χ^2/NDF : 11212780.4/113

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.369+/-0.000 χ^2/NDF : 194529685053.0/31

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.338+/-0.000 χ^2/NDF : 193531029057.9/33

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

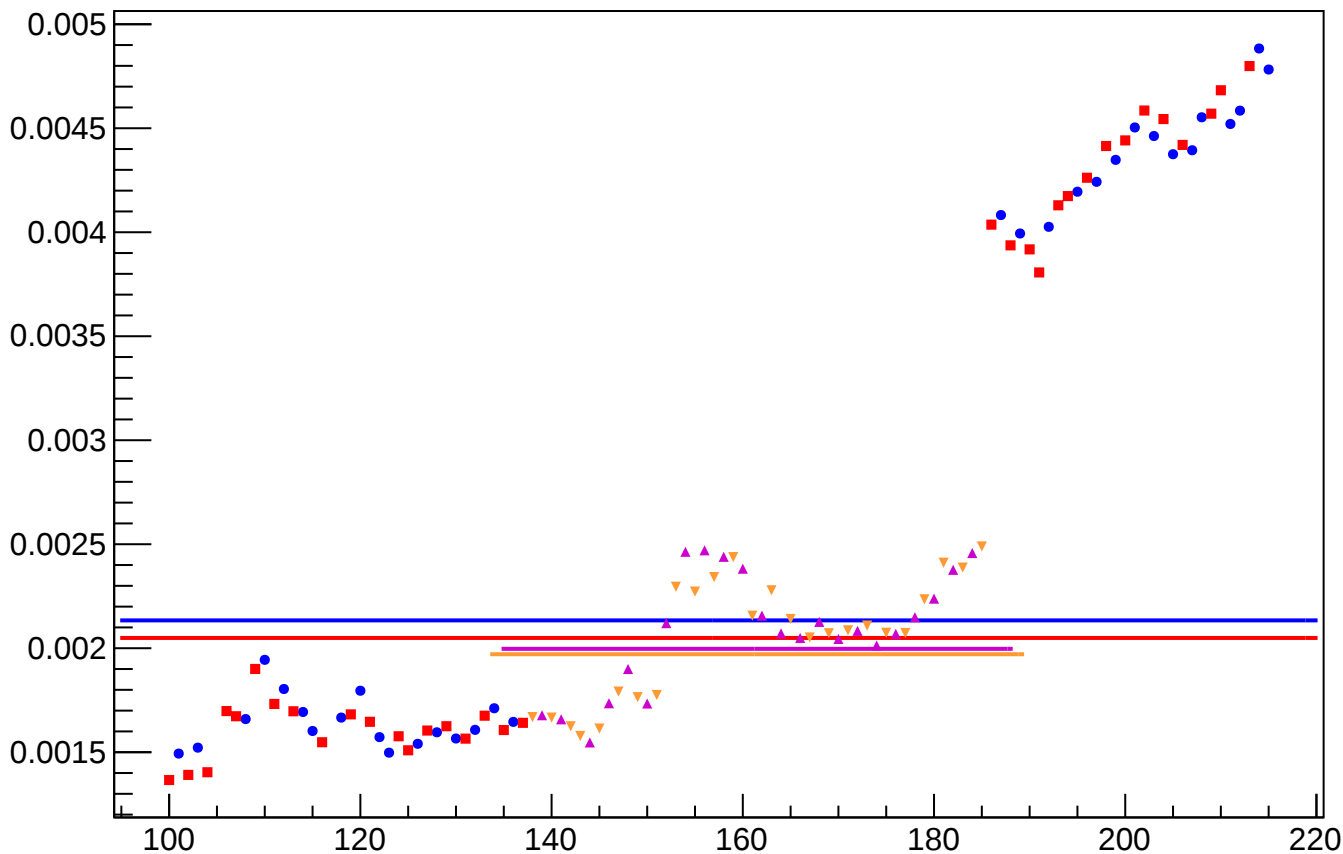
Right: 0.353+/-0.000 χ^2/NDF : 389619903469.1/65

In: 0.422+/-0.000 χ^2/NDF : 313310292713.1/54

Out: 0.411+/-0.000 χ^2/NDF : 326049703921.8/58

All: 0.416+/-0.000 χ^2/NDF : 639810253488.3

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 6975124.5/31

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6837828.4/33

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

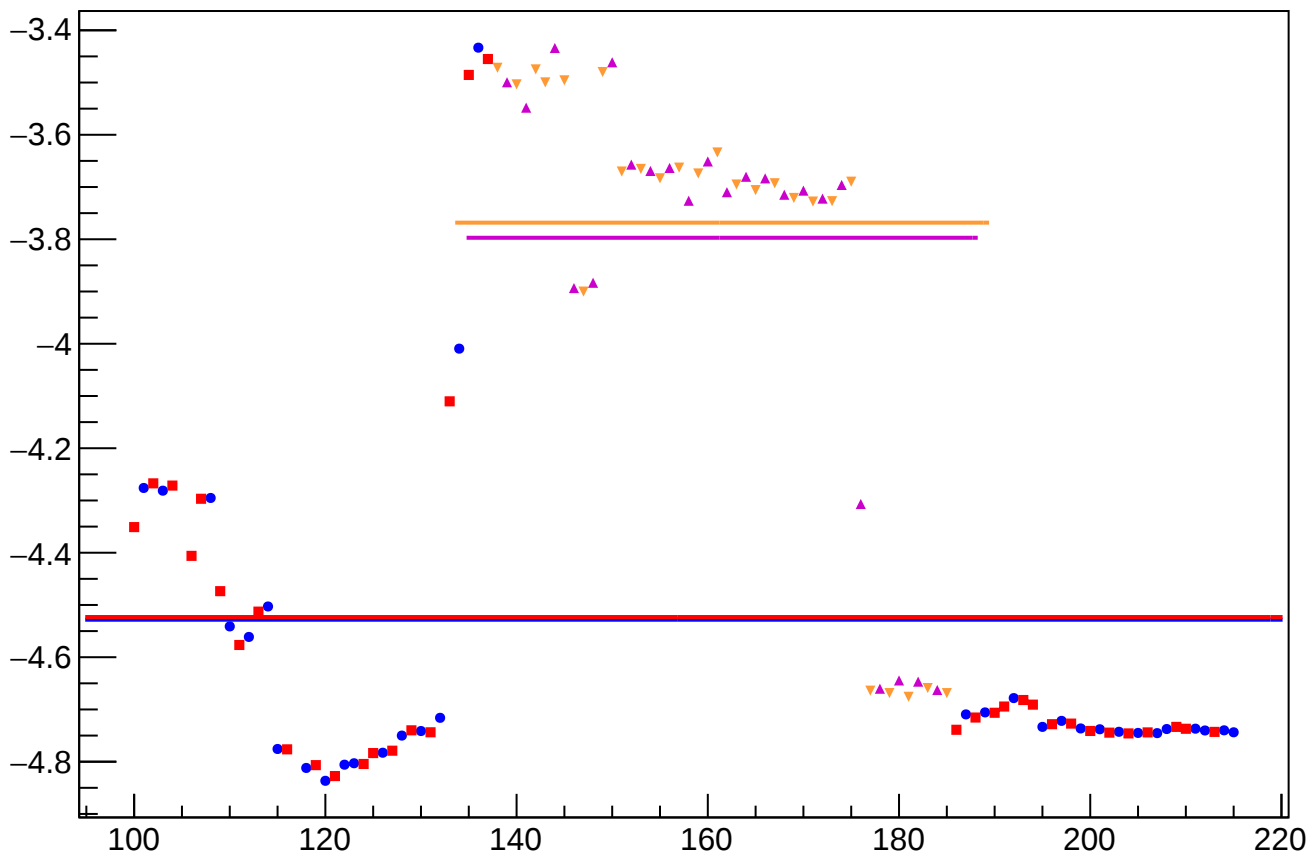
Right: 0.002+/-0.000 χ^2/NDF : 13835126.2/65

In: 0.002+/-0.000 χ^2/NDF : 7706802.4/54

Out: 0.002+/-0.000 χ^2/NDF : 7591430.5/58

All: 0.002+/-0.000 χ^2/NDF : 15317220.2/113

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.528+/-0.000 χ^2/NDF : 446666877567.0/31

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.523+/-0.000 χ^2/NDF : 378776501064.5/33

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

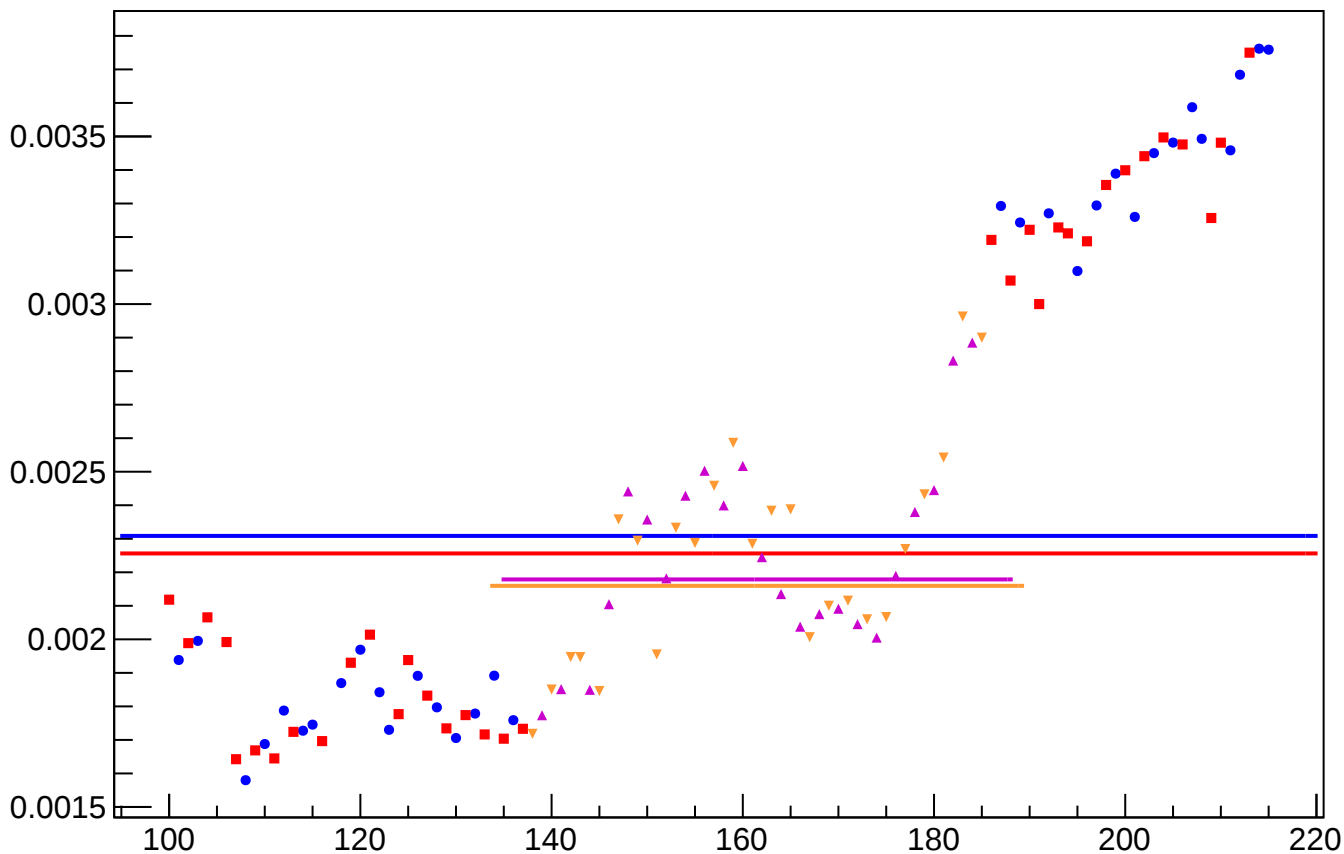
Right: -4.526+/-0.000 χ^2/NDF : 825482478407.2/65

In: -4.126+/-0.000 χ^2/NDF : 1744137638469.3/54

Out: -4.103+/-0.000 χ^2/NDF : 1859302920738.9/58

All: -4.114+/-0.000 χ^2/NDF : 3605136229934

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3364855.7/31

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3098988.7/33

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

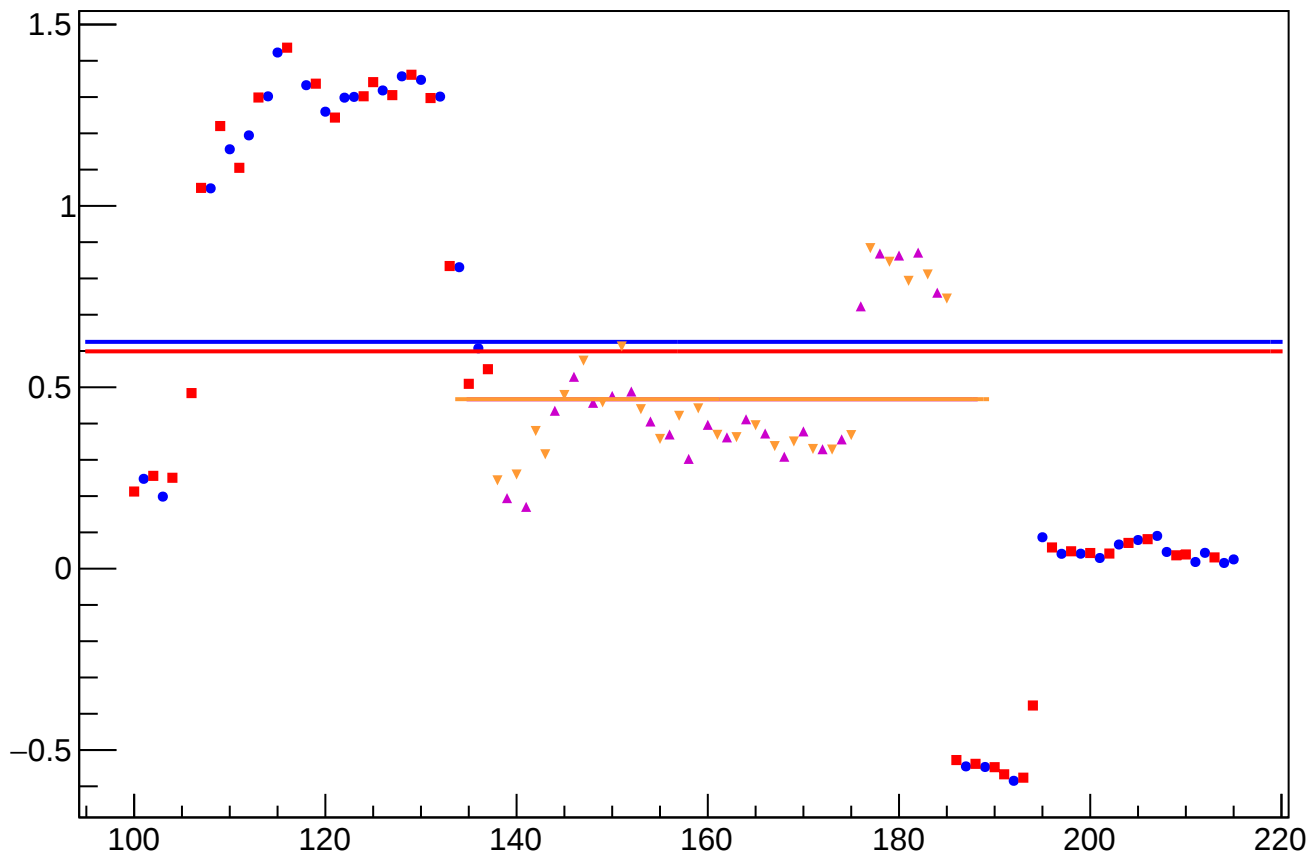
Right: 0.002+/-0.000 χ^2/NDF : 6471955.2/65

In: 0.002+/-0.000 χ^2/NDF :3881901.8/54

Out: 0.002+/-0.000 χ^2/NDF :3678390.6/58

All: 0.002+/-0.000 χ^2/NDF : 7568227.0/113

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.625 ± 0.000 $\chi^2/\text{NDF}: 84950563791.8/31$

Left Out: 0.467 ± 0.000 $\chi^2/\text{NDF}: 7359344143.3/24$

Right Out: 0.599 ± 0.000 $\chi^2/\text{NDF}: 100774787487.7/33$

Left In: 0.467 ± 0.000 $\chi^2/\text{NDF}: 8036741308.0/22$

Left: 0.467 ± 0.000 $\chi^2/\text{NDF}: 15396100488.4/47$

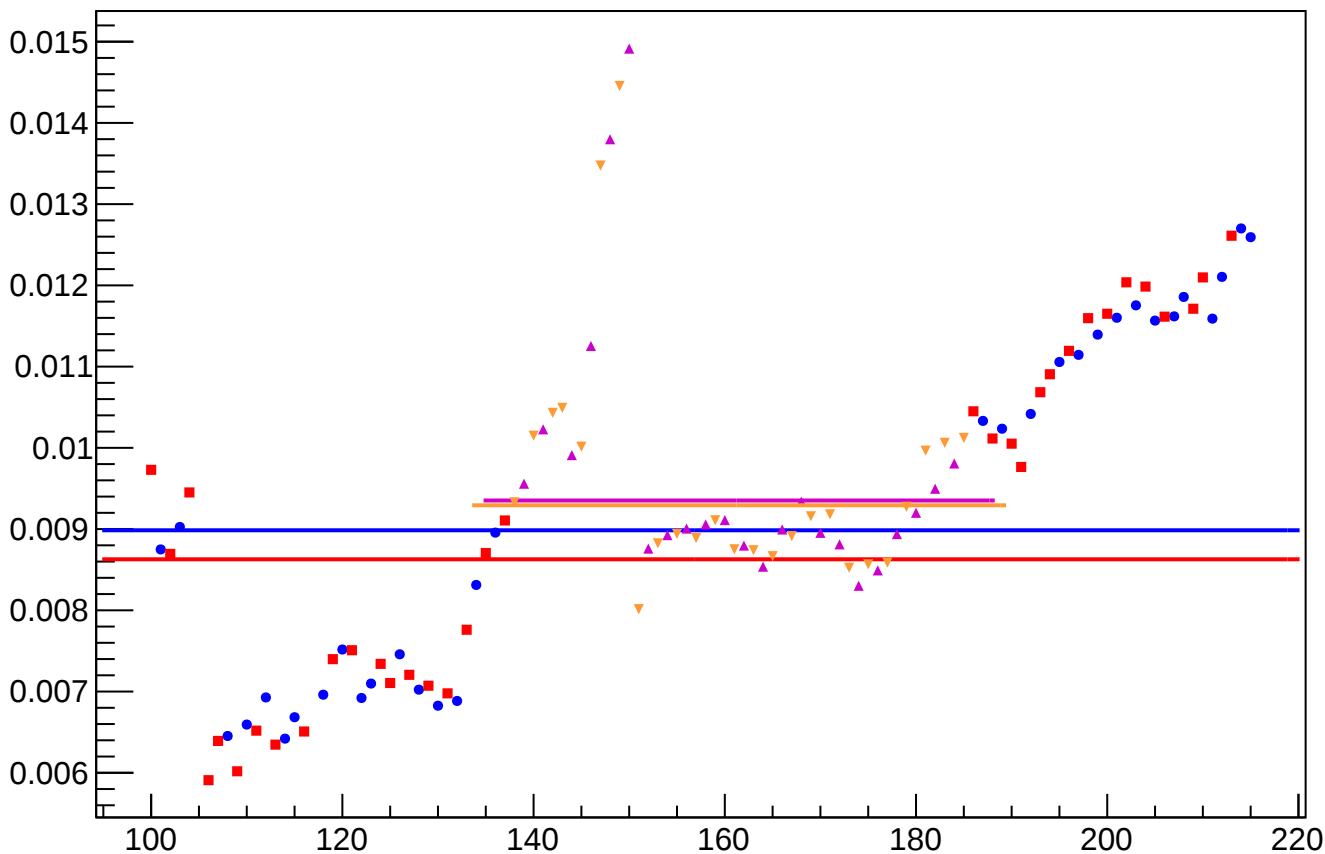
Right: 0.612 ± 0.000 $\chi^2/\text{NDF}: 185797338167.9/65$

In: 0.548 ± 0.000 $\chi^2/\text{NDF}: 95475425499.0/54$

Out: 0.534 ± 0.000 $\chi^2/\text{NDF}: 109983515798.0/58$

All: 0.541 ± 0.000 $\chi^2/\text{NDF}: 205495446161.0$

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1889531.4/31

Left Out: 0.009+/-0.000 χ^2/NDF : 528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2068895.0/33

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

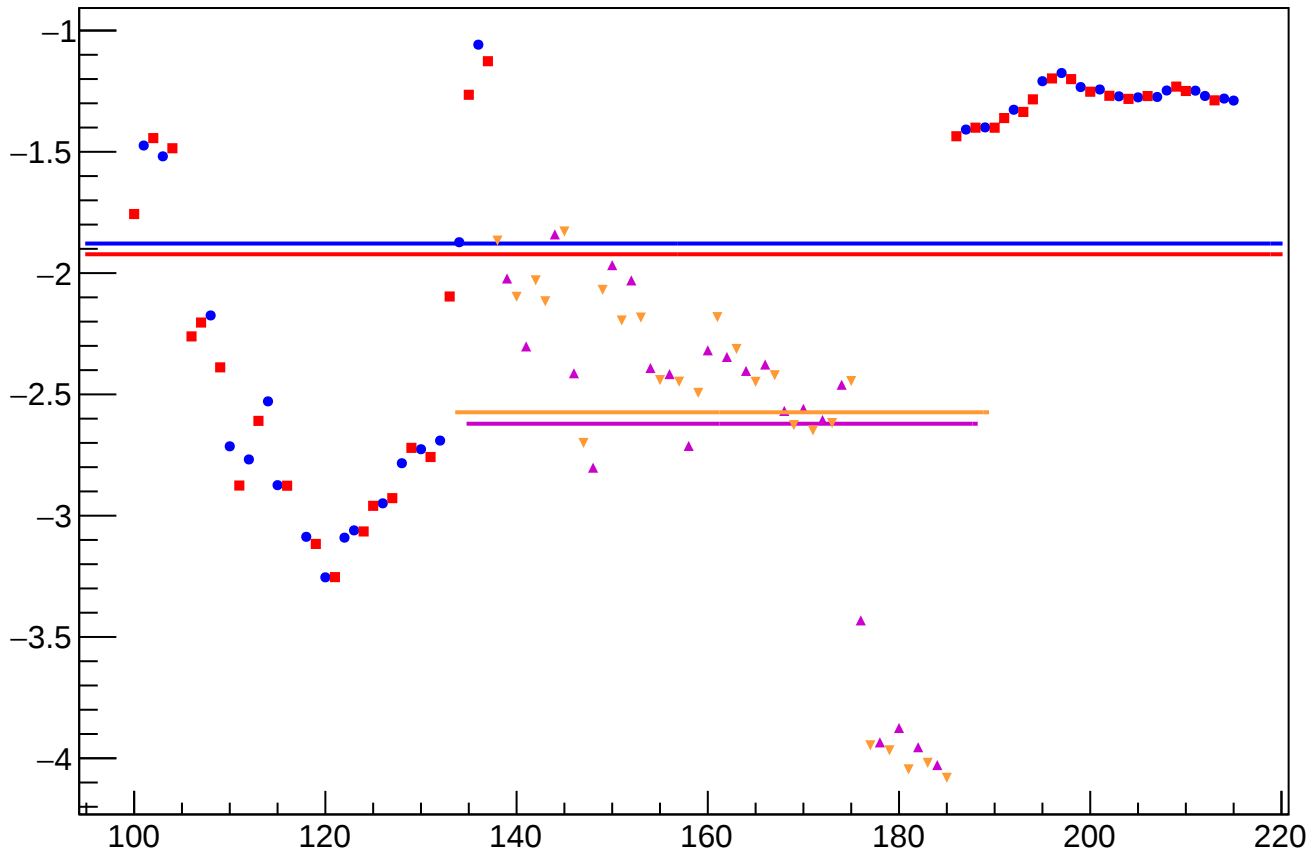
Right: 0.009+/-0.000 χ^2/NDF : 3985171.2/65

In: 0.009+/-0.000 χ^2/NDF : 2473766.6/54

Out: 0.009+/-0.000 χ^2/NDF : 2691268.6/58

All: 0.009+/-0.000 χ^2/NDF : 5183271.7/113

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.878+/-0.000 χ^2/NDF : 136535365291.9/31

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -1.922+/-0.000 χ^2/NDF : 130742222161.9/33

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

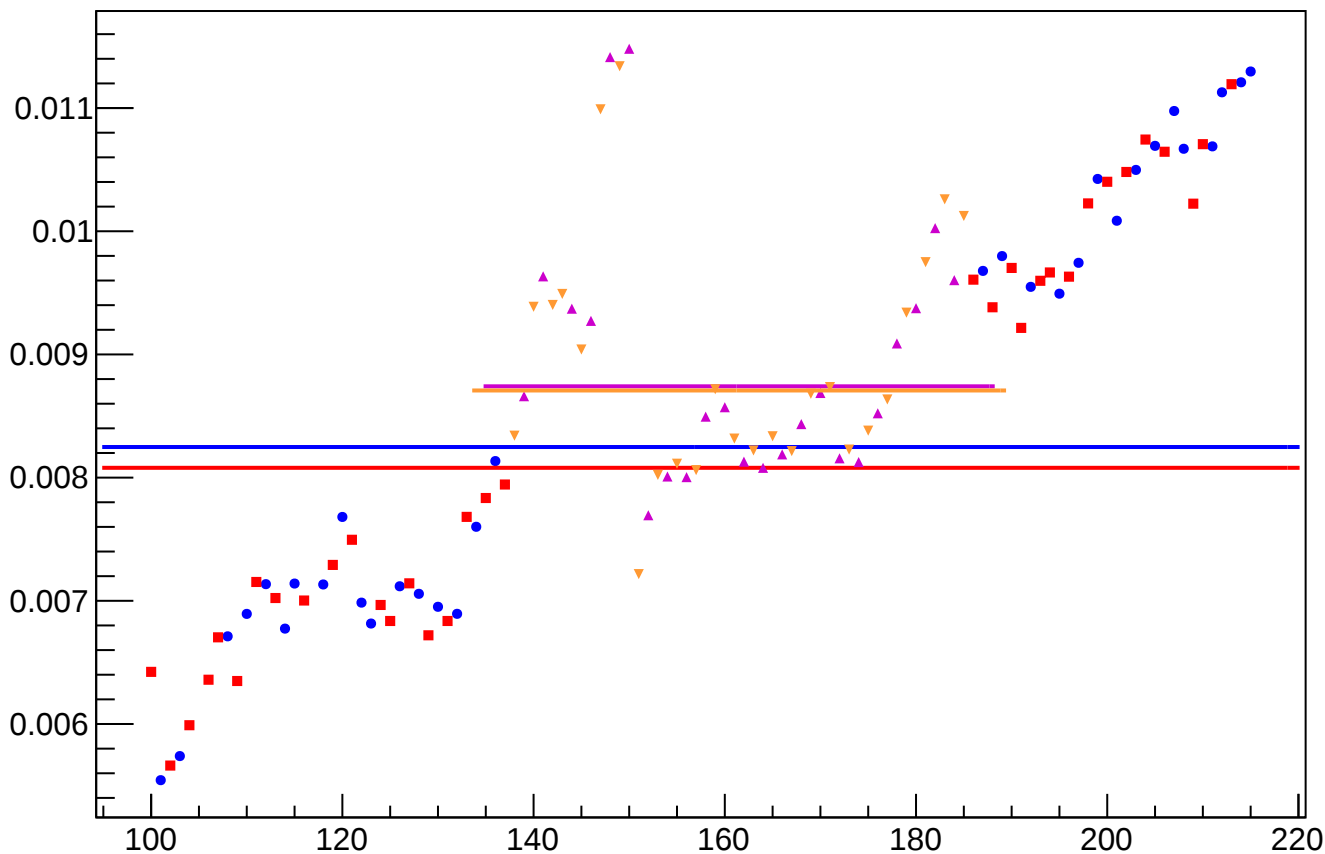
Right: -1.901+/-0.000 χ^2/NDF : 267519692012.8/65

In: -2.235+/-0.000 χ^2/NDF : 281667800454.8/54

Out: -2.239+/-0.000 χ^2/NDF : 282121246758.0/58

All: -2.237+/-0.000 χ^2/NDF : 563793193227.1

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1732329.1/31

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1516109.3/33

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

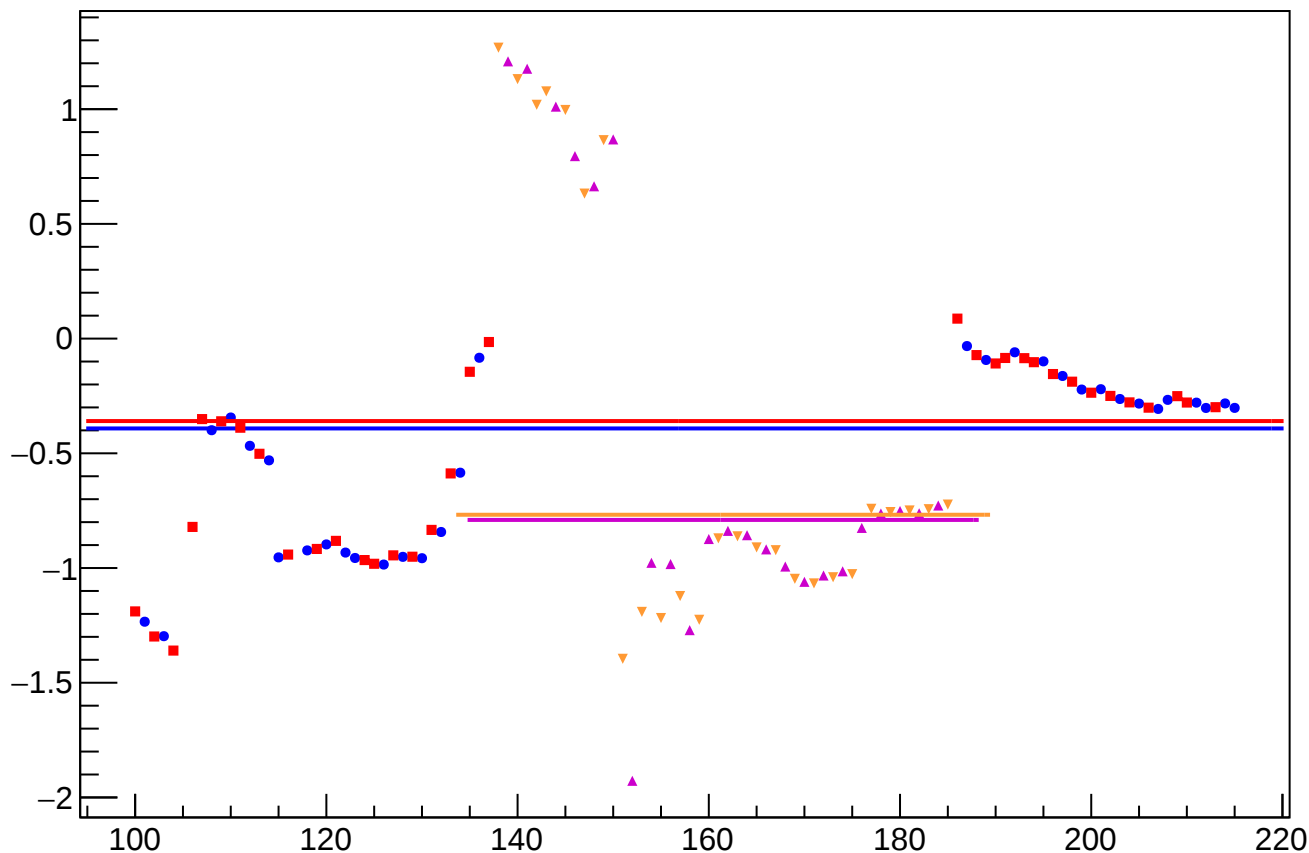
Right: 0.008+/-0.000 χ^2/NDF : 3255493.5/65

In: 0.008+/-0.000 χ^2/NDF : 2142641.2/54

Out: 0.008+/-0.000 χ^2/NDF : 1982455.0/58

All: 0.008+/-0.000 χ^2/NDF : 4129909.1/113

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.392 $\pm$ 0.000 χ^2 /NDF: 23058993113.1/31

Left Out: -0.768 $\pm$ 0.000 χ^2 /NDF: 120774855982.9/24

Right Out: -0.359 $\pm$ 0.000 χ^2 /NDF: 25317389516.4/33

Left In: -0.790 $\pm$ 0.000 χ^2 /NDF: 123452478408.2/22

Left: -0.779 $\pm$ 0.000 χ^2 /NDF: 244297726249.8/47

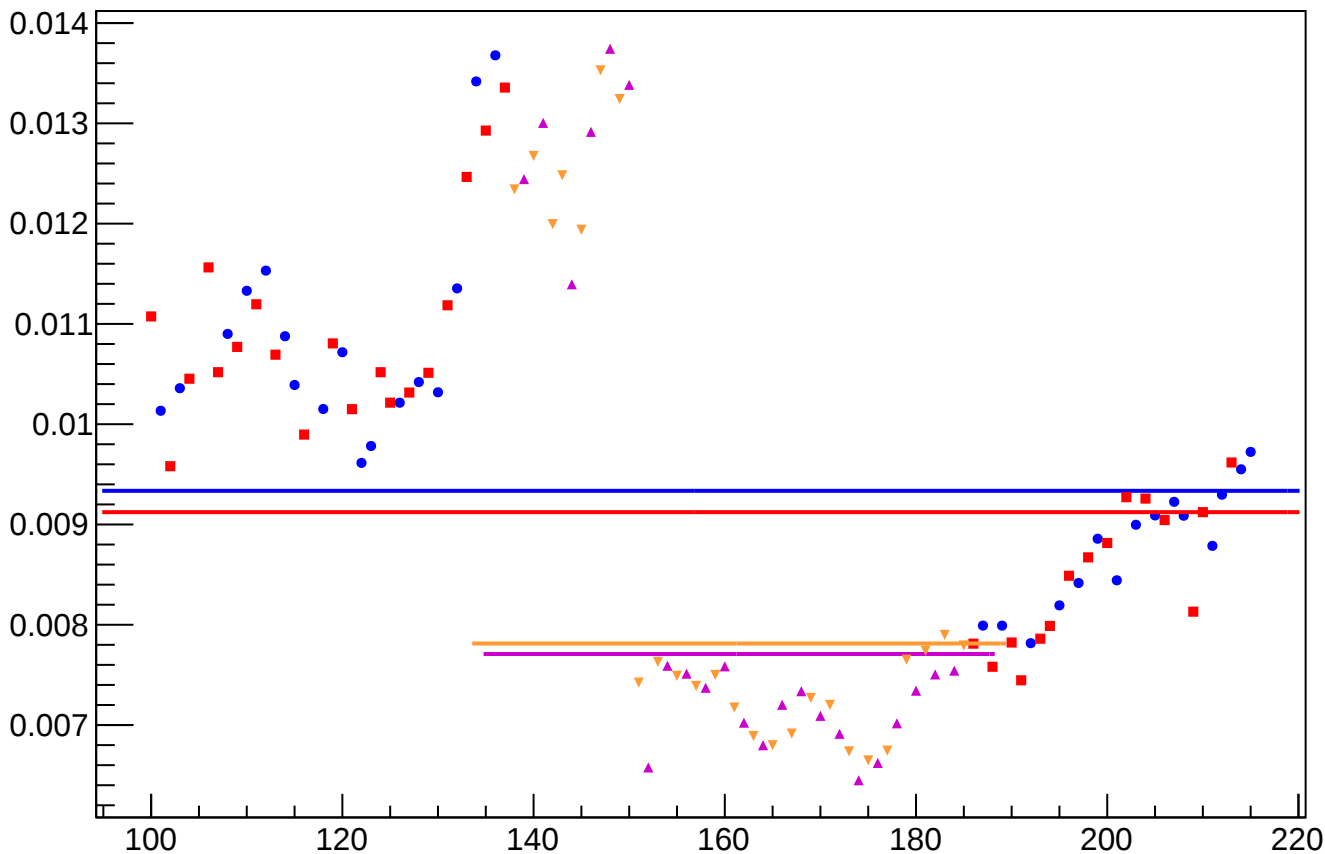
Right: -0.375 $\pm$ 0.000 χ^2 /NDF: 48478138692.6/65

In: -0.625 $\pm$ 0.000 χ^2 /NDF: 164484268820.0/54

Out: -0.598 $\pm$ 0.000 χ^2 /NDF: 165580231762.2/58

All: -0.611 $\pm$ 0.000 χ^2 /NDF: 330228029606.5

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 550680.6/31

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 654300.6/33

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

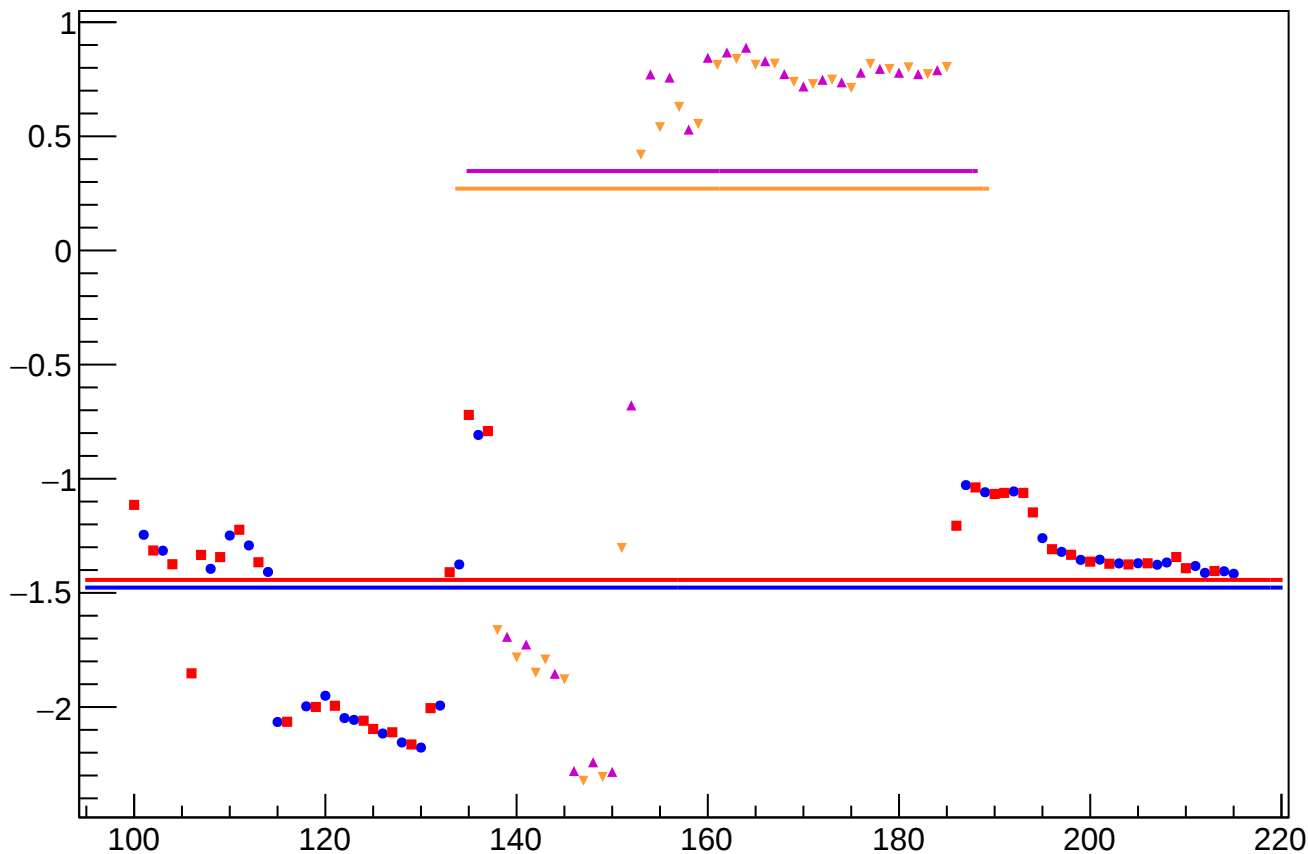
Right: 0.009+/-0.000 χ^2/NDF : 1213893.4/65

In: 0.008+/-0.000 χ^2/NDF :2895945.0/54

Out: 0.008+/-0.000 χ^2/NDF :2761108.7/58

All: 0.008+/-0.000 χ^2/NDF : 5657428.9/113

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.477+/-0.000 χ^2/NDF : 175206639061.9/31

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.443+/-0.000 χ^2/NDF : 164550282262.6/33

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

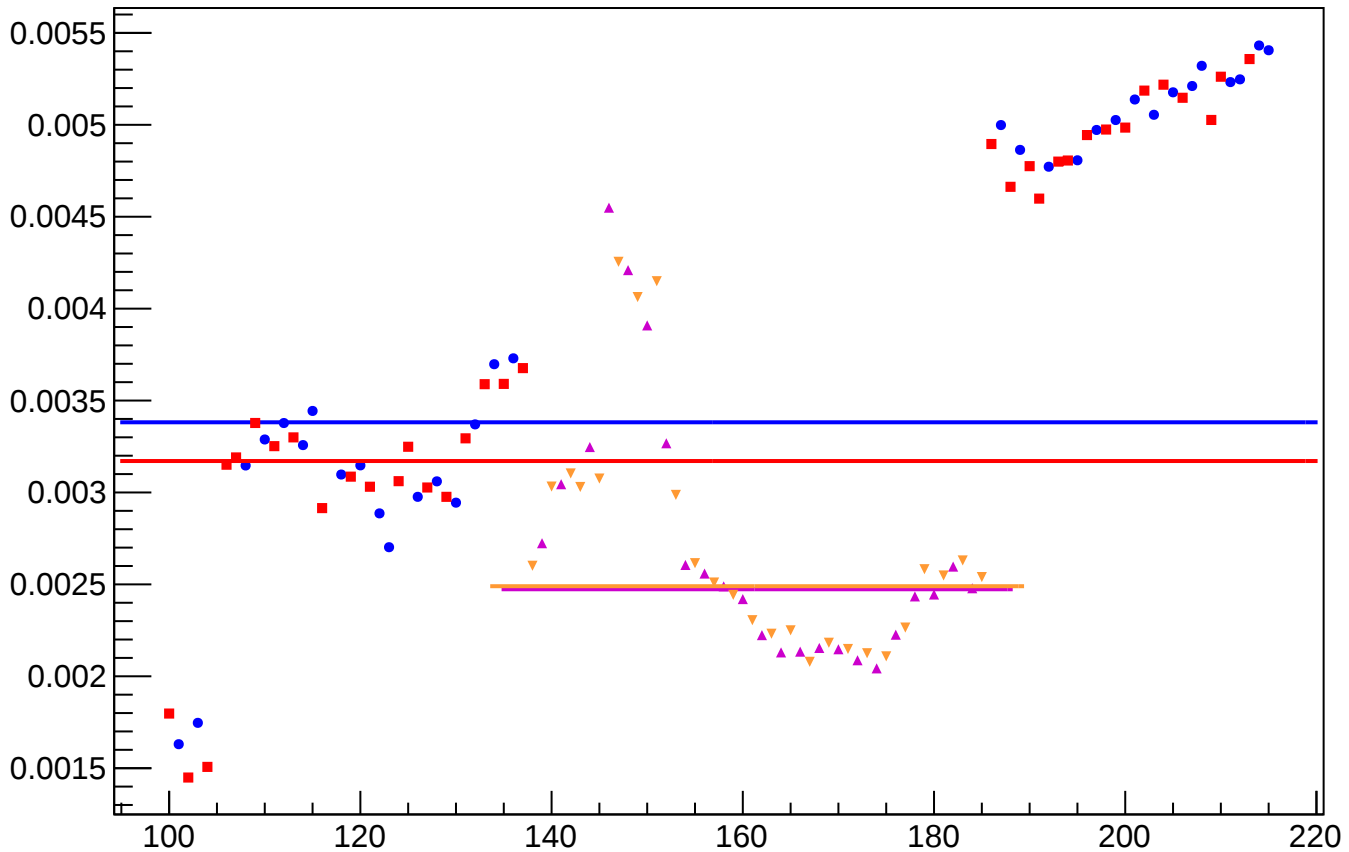
Right: -1.459+/-0.000 χ^2/NDF : 340497255376.7/65

In: -0.263+/-0.000 χ^2/NDF : 5217395717679.0/54

Out: -0.316+/-0.000 χ^2/NDF : 5385395593606.7/58

All: -0.291+/-0.000 χ^2/NDF : 1060822441178

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4507442.8/31

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5220375.6/33

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

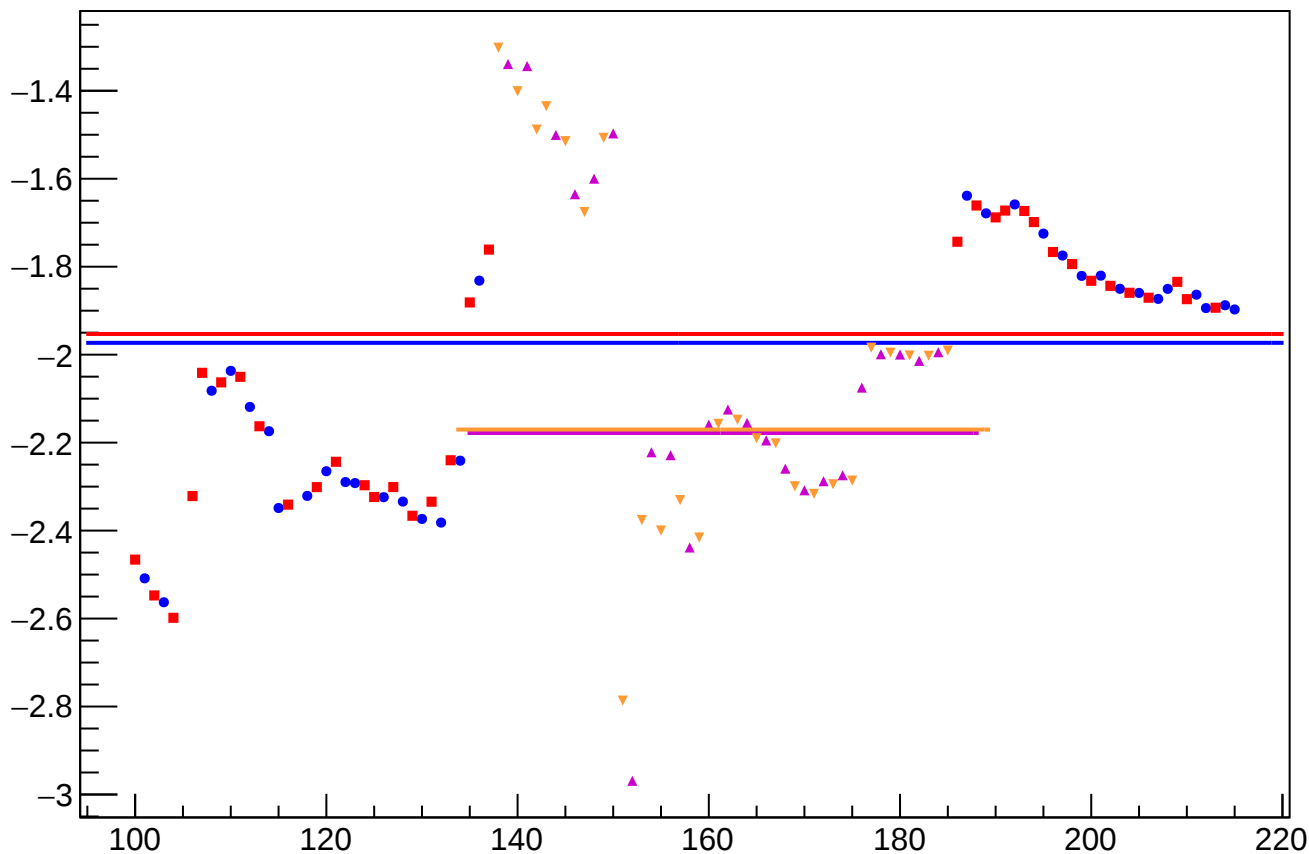
Right: 0.003+/-0.000 χ^2/NDF : 9785764.5/65

In: 0.003+/-0.000 χ^2/NDF :7014533.2/54

Out: 0.003+/-0.000 χ^2/NDF :7123553.6/58

All: 0.003+/-0.000 χ^2/NDF : 14149472.7/113

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.973+/-0.000 χ^2/NDF : 31539979669.5/31

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.953+/-0.000 χ^2/NDF : 35330349310.6/33

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

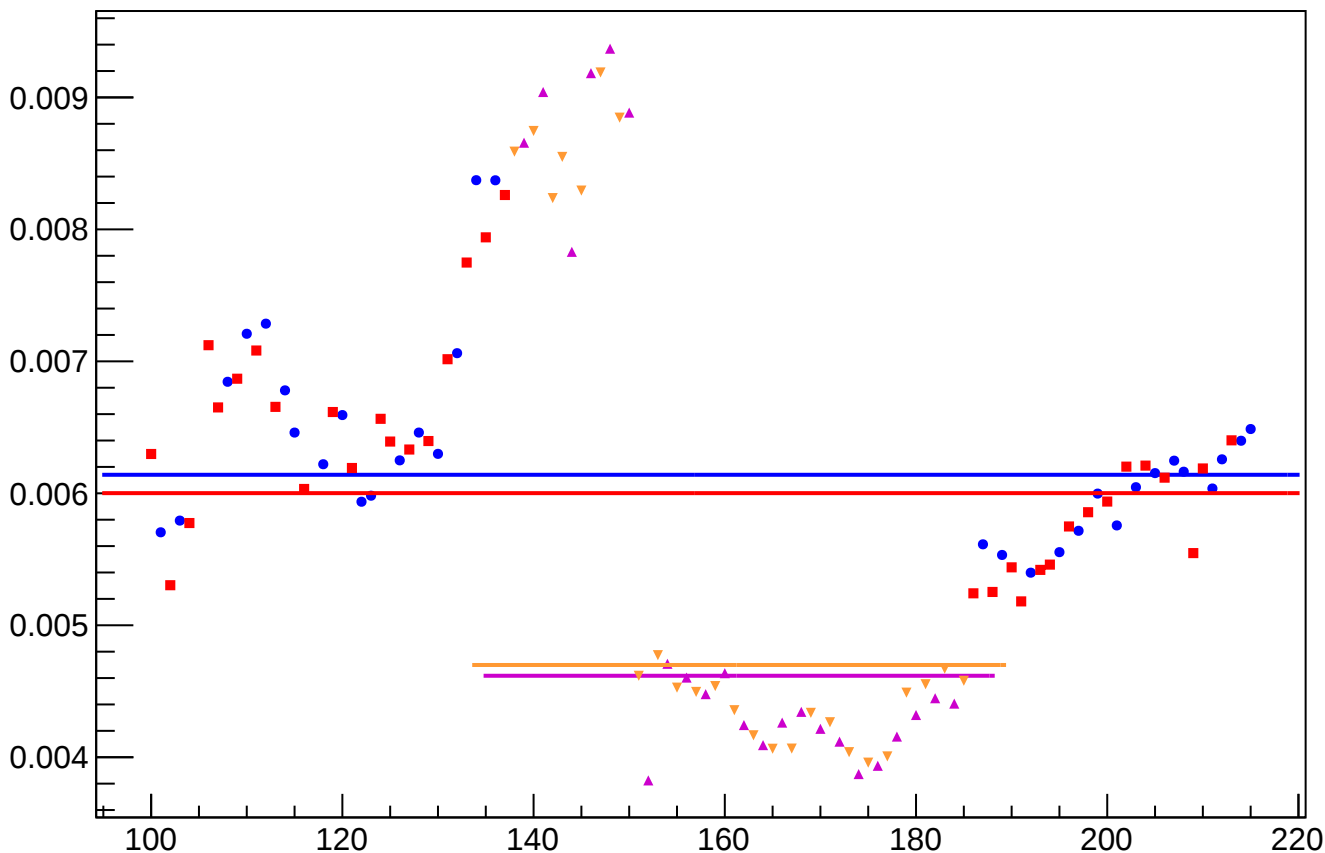
Right: -1.963+/-0.000 χ^2/NDF : 66962460825.7/65

In: -2.100+/-0.000 χ^2/NDF : 116599882217.0/54

Out: -2.088+/-0.000 χ^2/NDF : 108837617177.9/58

All: -2.094+/-0.000 χ^2/NDF : 225533757581.4

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 310629.0/31

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 370023.1/33

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

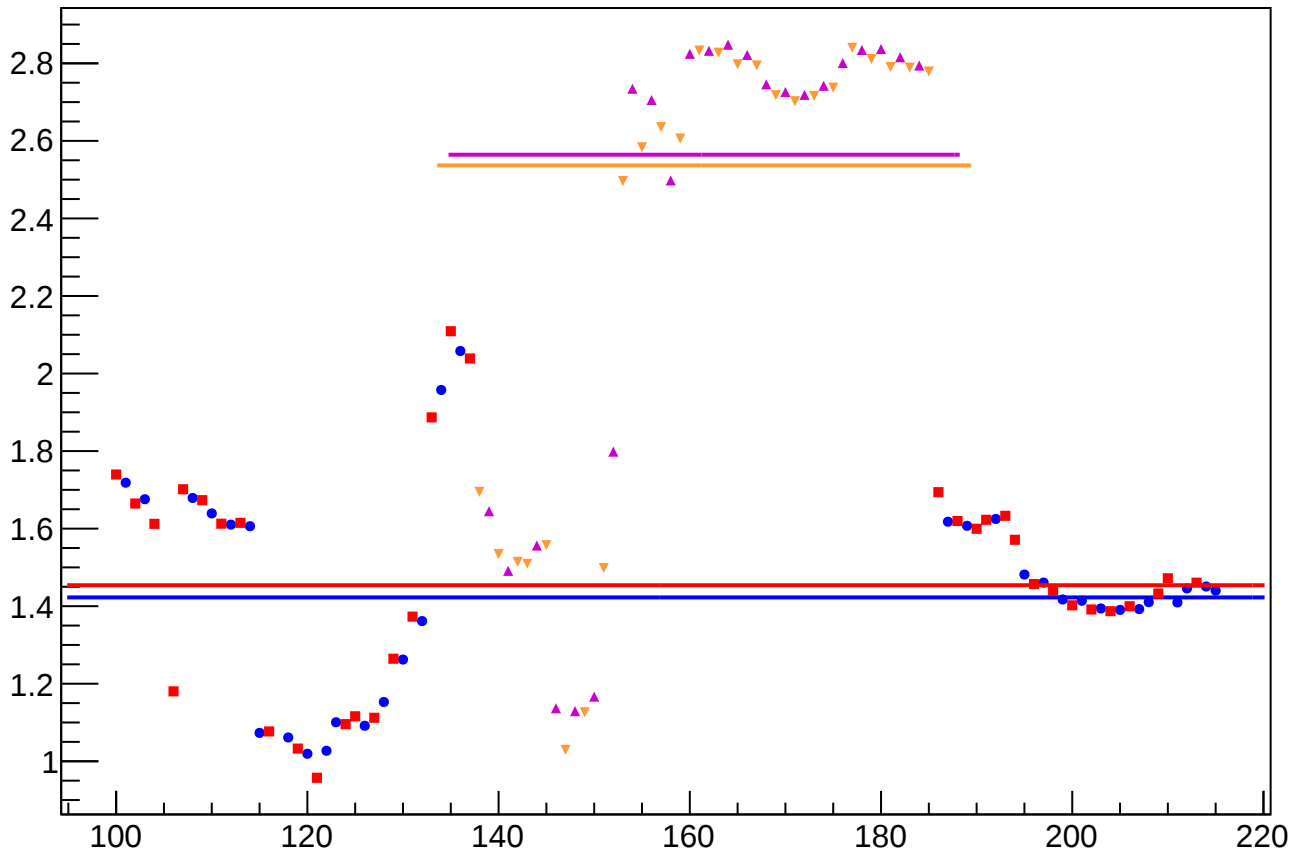
Right: 0.006+/-0.000 χ^2/NDF : 689447.8/65

In: 0.005+/-0.000 χ^2/NDF :3965376.5/54

Out: 0.005+/-0.000 χ^2/NDF :3662267.8/58

All: 0.005+/-0.000 χ^2/NDF : 7627645.2/113

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174196881797.0/31

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177000558058.9/33

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

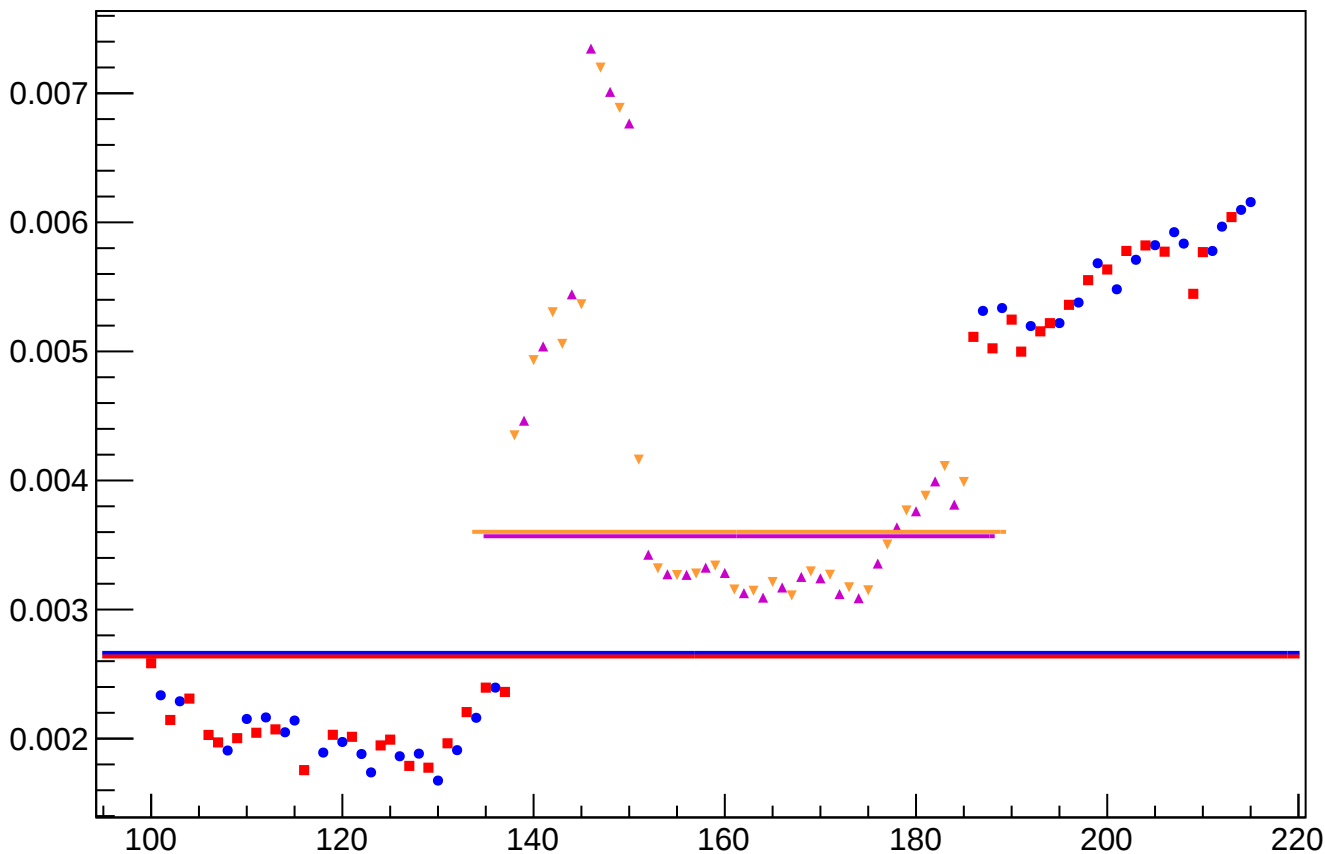
Right: 1.439+/-0.000 χ^2/NDF : 352127385048.2/65

In: 1.878+/-0.000 χ^2/NDF : 1395495140941.2/54

Out: 1.890+/-0.000 χ^2/NDF : 1348573178651.3/58

All: 1.884+/-0.000 χ^2/NDF : 2744302326026.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 7390955.3/31

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 6729197.3/33

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

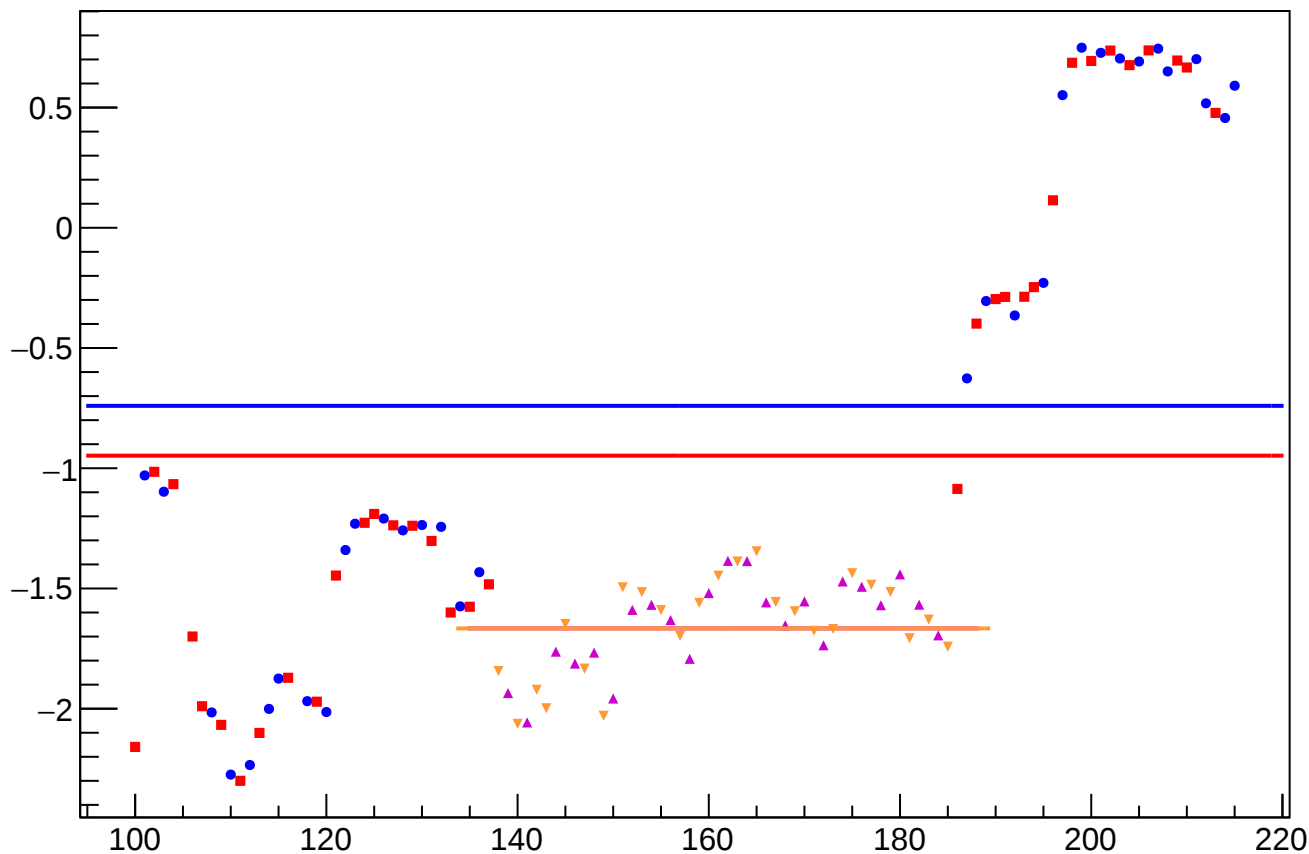
Right: 0.003+/-0.000 χ^2/NDF : 14121601.8/65

In: 0.003+/-0.000 χ^2/NDF :10158236.8/54

Out: 0.003+/-0.000 χ^2/NDF :9575415.6/58

All: 0.003+/-0.000 χ^2/NDF : 19733654.4/113

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.740+/-0.000 χ^2/NDF : 238422610562.4/31

Left Out: -1.666+/-0.000 χ^2/NDF : 18325162131.2/24

Right Out: -0.948+/-0.000 χ^2/NDF : 250548390922.0/33

Left In: -1.666+/-0.000 χ^2/NDF : 14292570816.9/22

Left: -1.666+/-0.000 χ^2/NDF : 32617732948.1/47

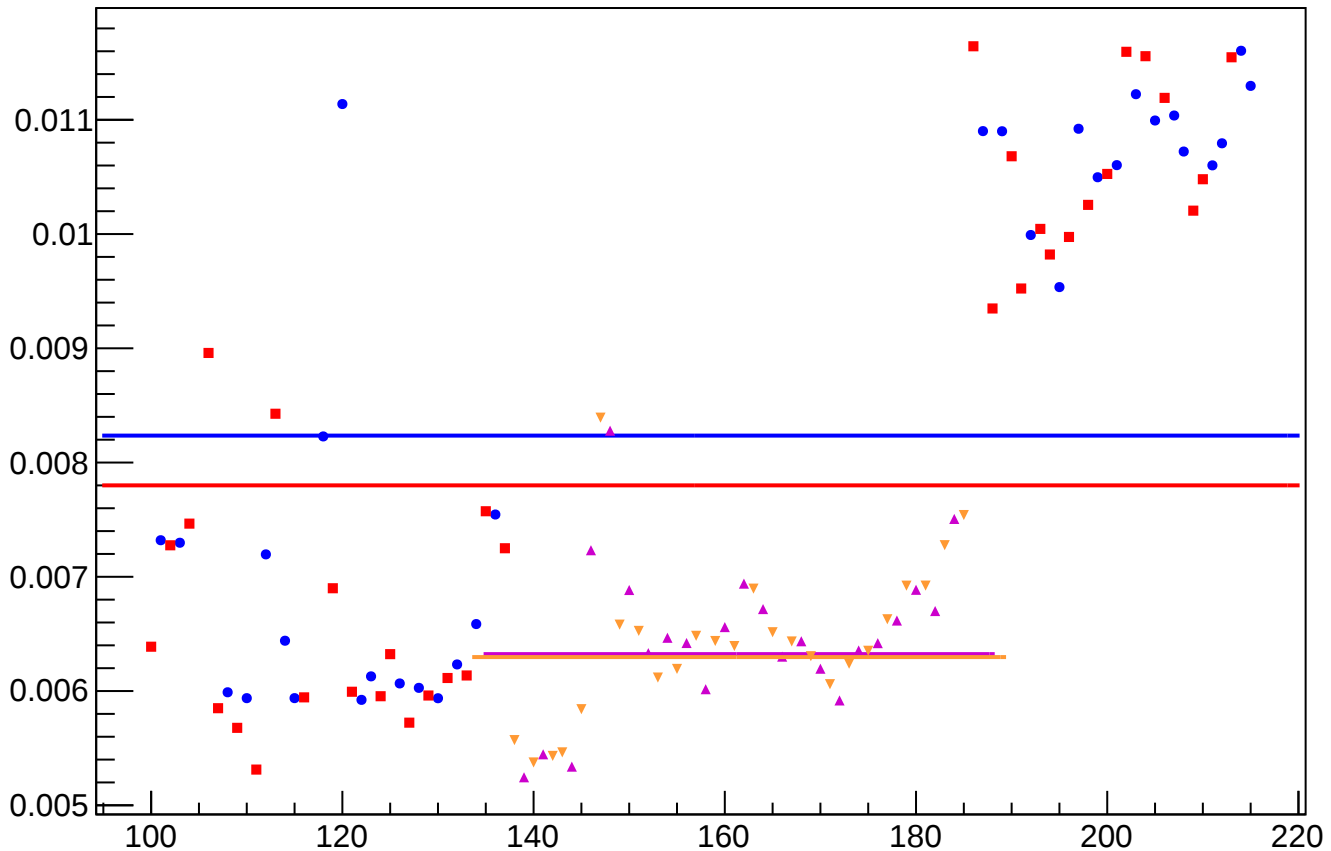
Right: -0.849+/-0.000 χ^2/NDF : 494141956919.6/65

In: -1.334+/-0.000 χ^2/NDF : 378639842736.9/54

Out: -1.403+/-0.000 χ^2/NDF : 352079616795.7/58

All: -1.370+/-0.000 χ^2/NDF : 732309070072.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2093739.3/31

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2254205.1/33

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

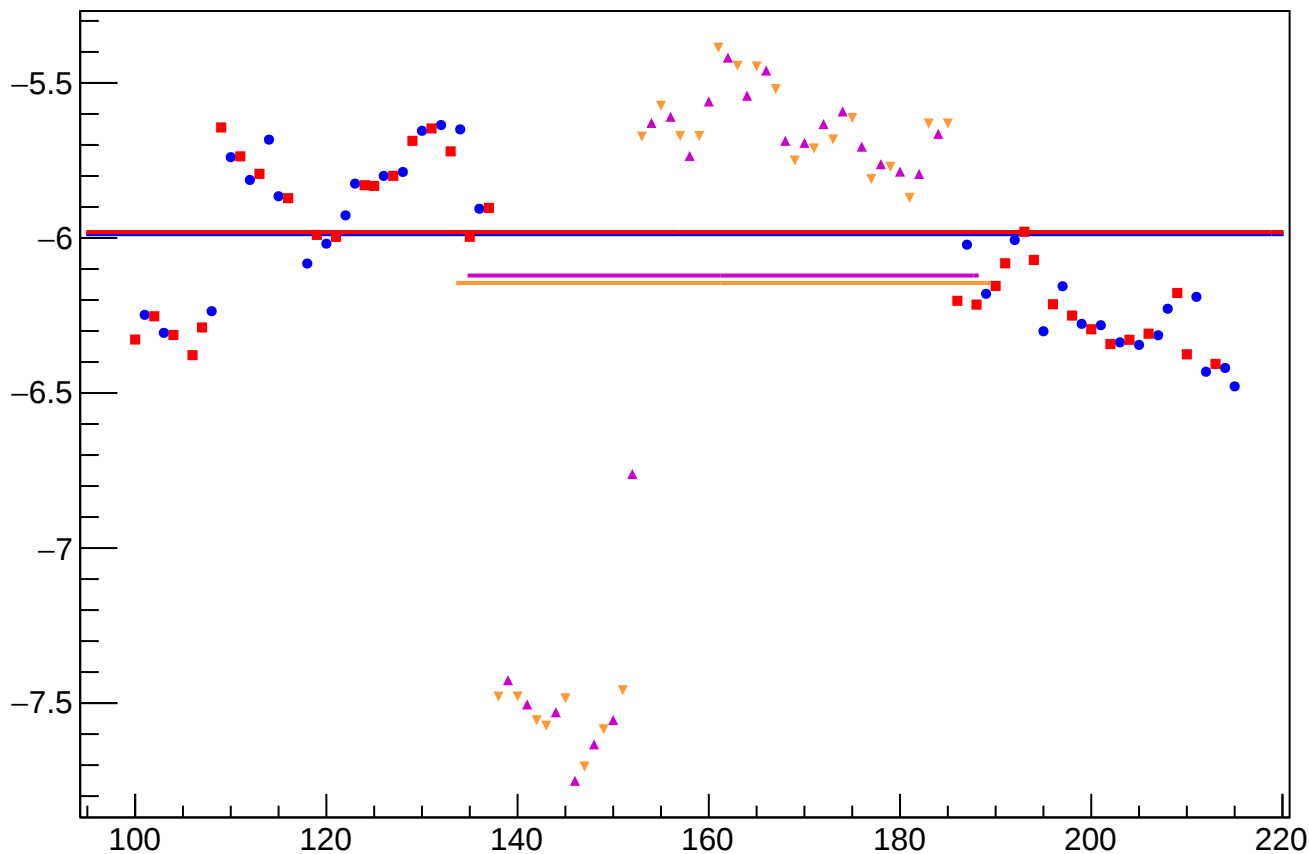
Right: 0.008+/-0.000 χ^2/NDF : 4393666.0/65

In: 0.007+/-0.000 χ^2/NDF : 3499882.4/54

Out: 0.007+/-0.000 χ^2/NDF : 3293178.5/58

All: 0.007+/-0.000 χ^2/NDF : 6810528.5/113

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.988+/-0.000 χ^2/NDF : 17553673564.2/31

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.981+/-0.000 χ^2/NDF : 17717423760.2/33

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

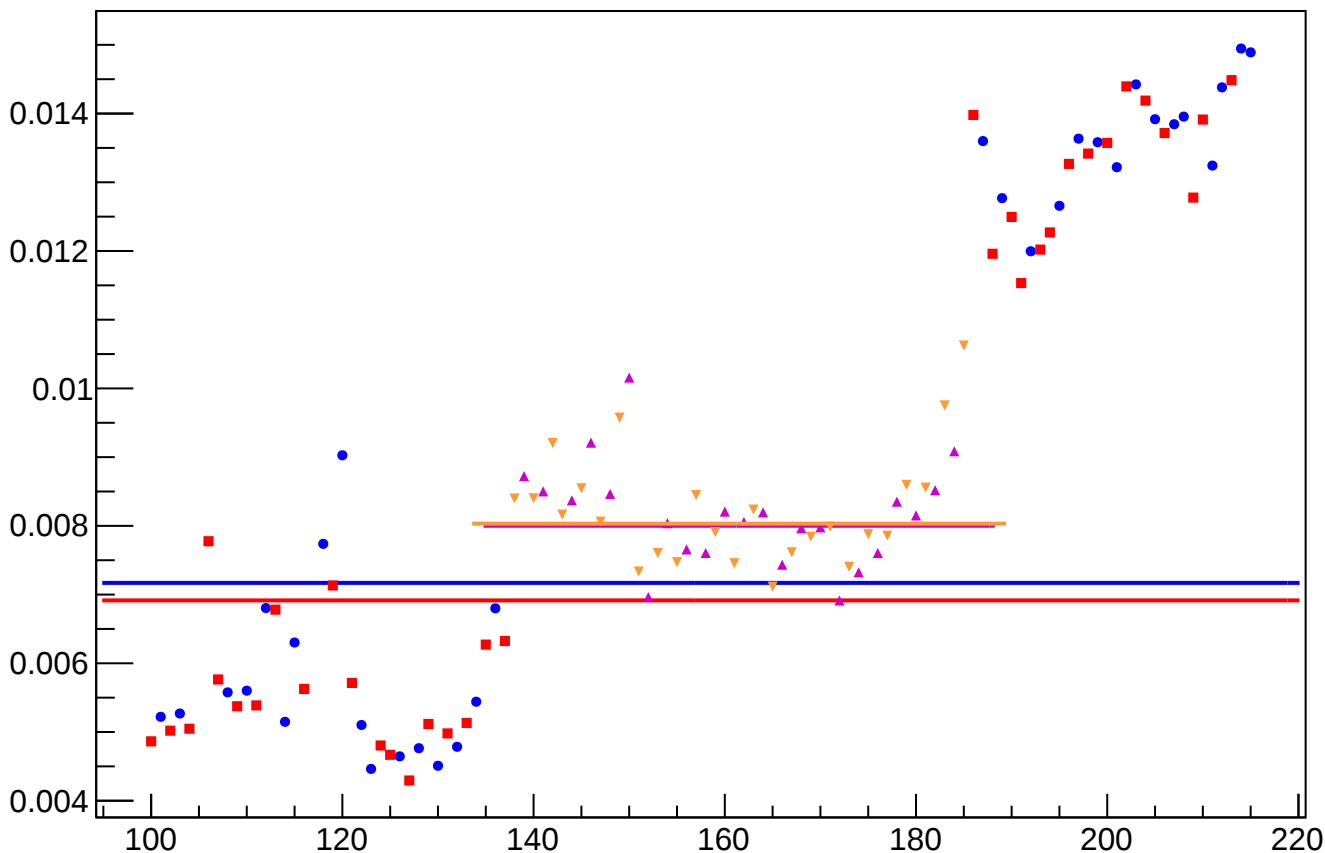
Right: -5.984+/-0.000 χ^2/NDF : 35277934094.7/65

In: -6.053+/-0.000 χ^2/NDF : 178107874346.7/54

Out: -6.059+/-0.000 χ^2/NDF : 206703483527.1/58

All: -6.056+/-0.000 χ^2/NDF : 384822527590.1

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6281342.3/31

Left Out: 0.008+/-0.000 χ^2/NDF : 205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5796891.7/33

Left In: 0.008+/-0.000 χ^2/NDF : 220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

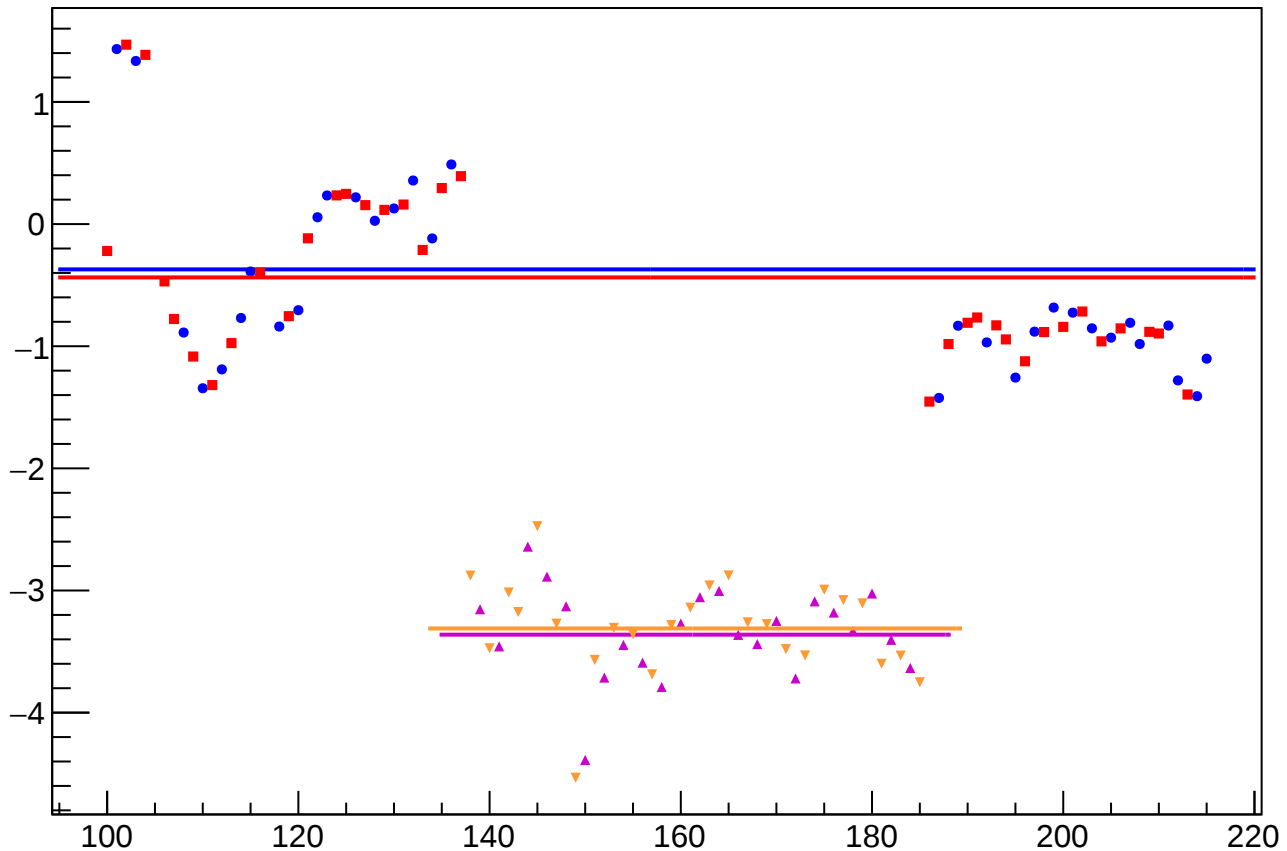
Right: 0.007+/-0.000 χ^2/NDF : 12095660.9/65

In: 0.008+/-0.000 χ^2/NDF : 6676301.7/54

Out: 0.007+/-0.000 χ^2/NDF : 6336890.5/58

All: 0.008+/-0.000 χ^2/NDF : 13021414.0/113

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.371 ± 0.000 χ^2/NDF : 36476990836.7/31

Left Out: -3.311 ± 0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.437 ± 0.000 χ^2/NDF : 34911855017.5/33

Left In: -3.362 ± 0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336 ± 0.000 χ^2/NDF : 17613895190.9/47

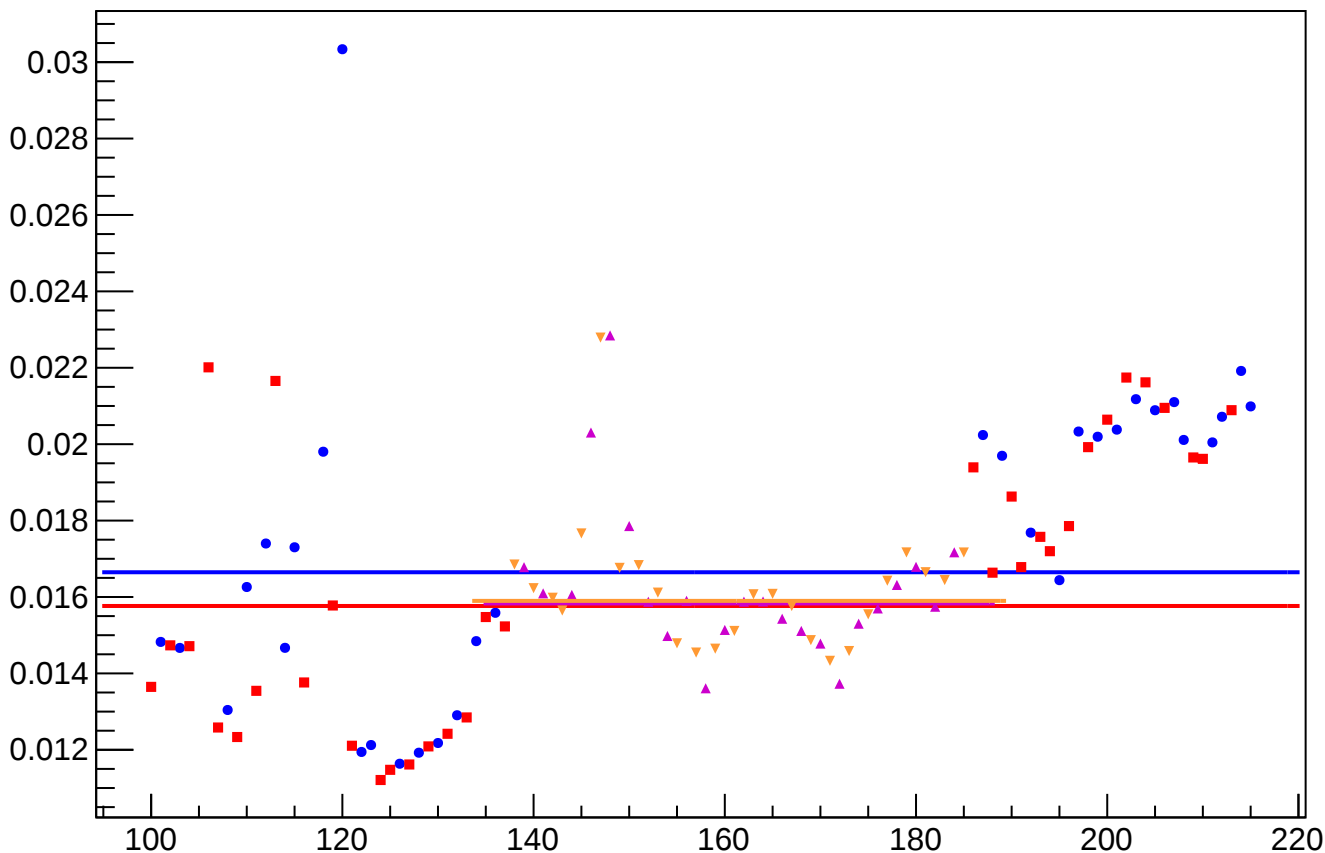
Right: -0.406 ± 0.000 χ^2/NDF : 71518872484.3/65

In: -1.979 ± 0.000 χ^2/NDF : 318717984678.9/54

Out: -1.941 ± 0.000 χ^2/NDF : 319609574441.2/58

All: -1.959 ± 0.000 χ^2/NDF : 638417998578.4

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1539071.3/31

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1478469.8/33

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

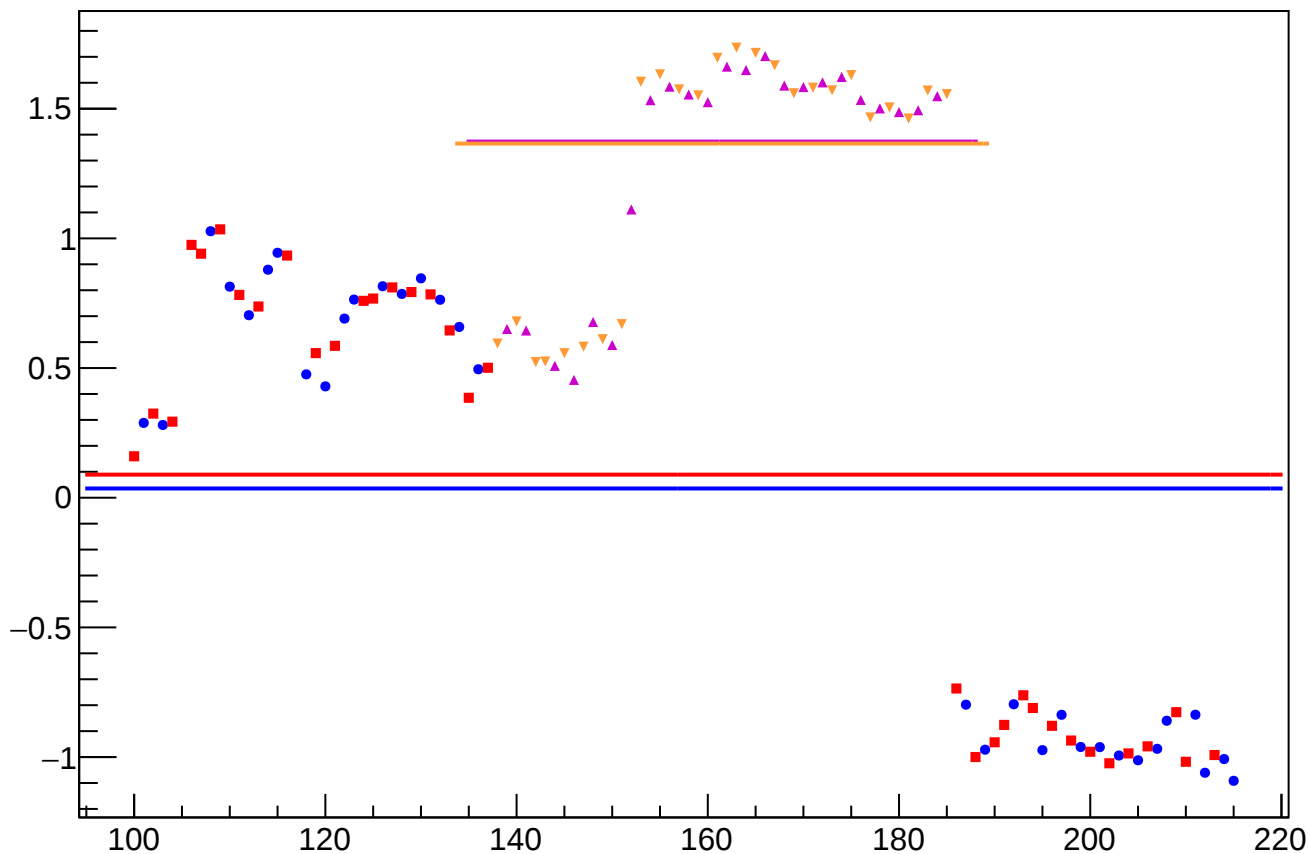
Right: 0.016+/-0.000 χ^2/NDF : 3064419.6/65

In: 0.016+/-0.000 χ^2/NDF :1919518.2/54

Out: 0.016+/-0.000 χ^2/NDF :1731570.4/58

All: 0.016+/-0.000 χ^2/NDF : 3668998.1/113

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.036+/-0.000 χ^2/NDF : 92006719898.6/31

Left Out: 1.366+/-0.000 χ^2/NDF : 74741956067.9/24

Right Out: 0.089+/-0.000 χ^2/NDF : 96749521168.5/33

Left In: 1.373+/-0.000 χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

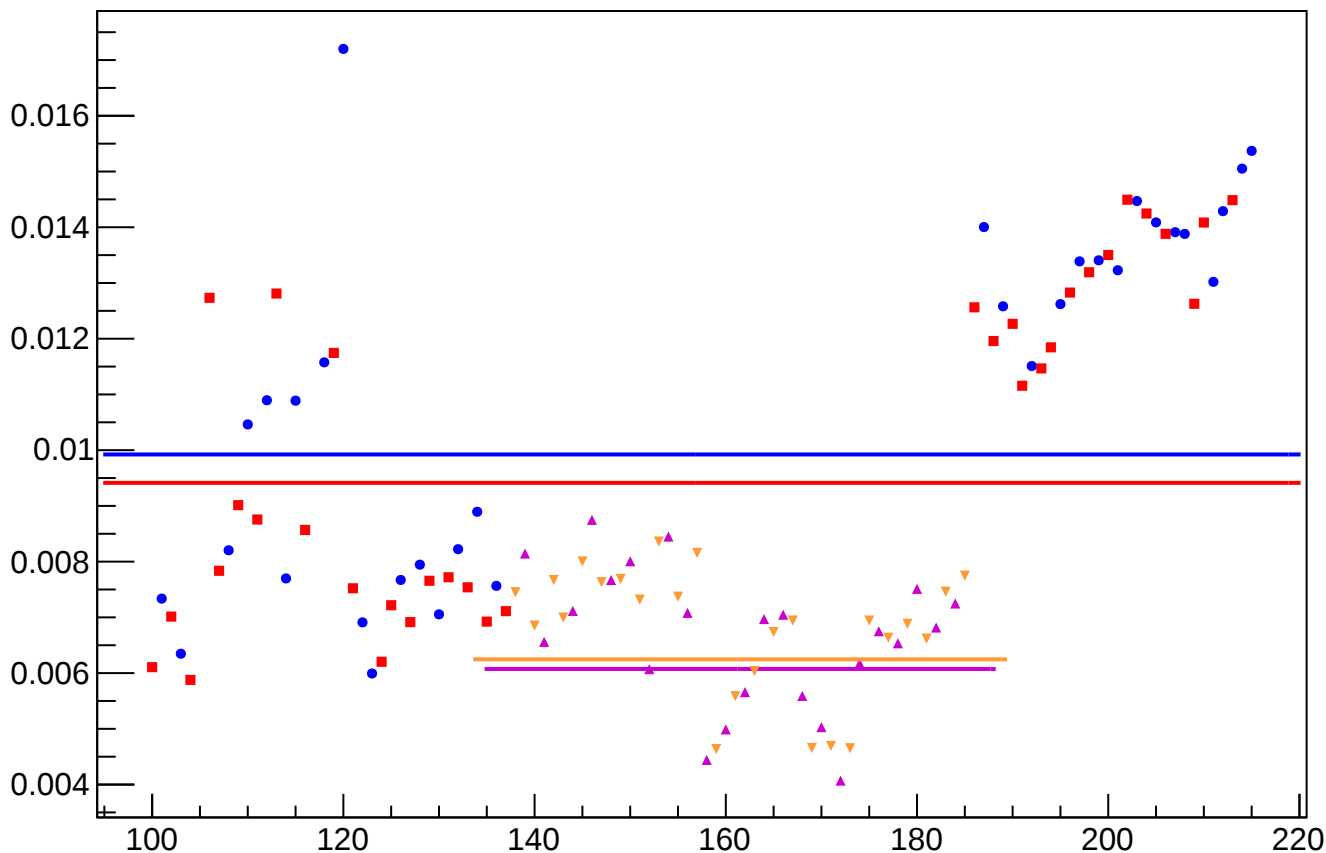
Right: 0.064+/-0.000 χ^2/NDF : 188982900839.5/65

In: 1.023+/-0.000 χ^2/NDF : 355719983559.8/54

Out: 1.006+/-0.000 χ^2/NDF : 366993248785.5/58

All: 1.014+/-0.000 χ^2/NDF : 722795339037.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 2853286.1/31

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2741334.6/33

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

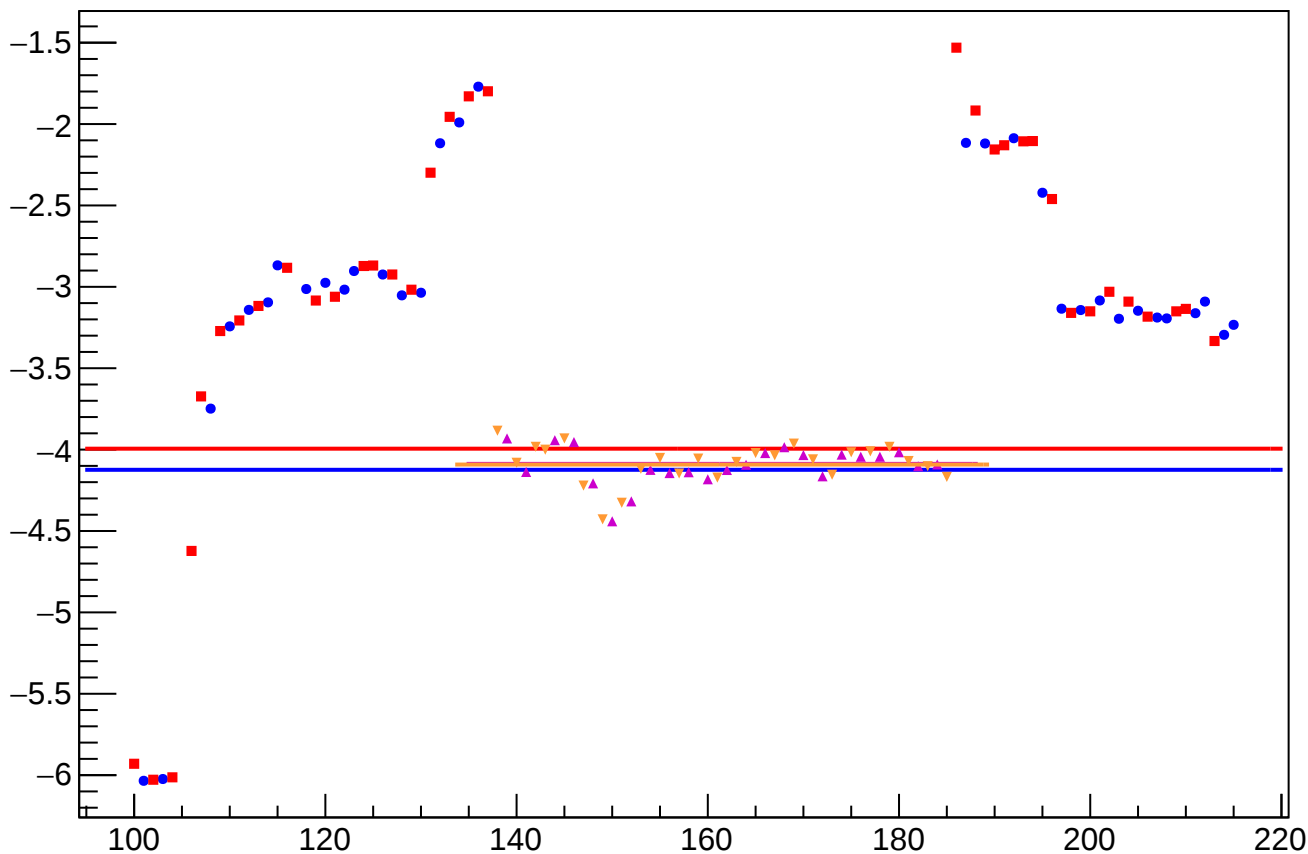
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 5635941.1/65

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7602454.6/54

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:6477567.3/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 14081882.9/113

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.124 ± 0.000 $\chi^2/\text{NDF}: 286050119061.2/31$

Left Out: -4.092 ± 0.000 $\chi^2/\text{NDF}: 39806766.7/24$

Right Out: -3.994 ± 0.000 $\chi^2/\text{NDF}: 275549758128.6/33$

Left In: -4.088 ± 0.000 $\chi^2/\text{NDF}: 34412880.7/22$

Left: -4.089 ± 0.000 $\chi^2/\text{NDF}: 74248792.8/47$

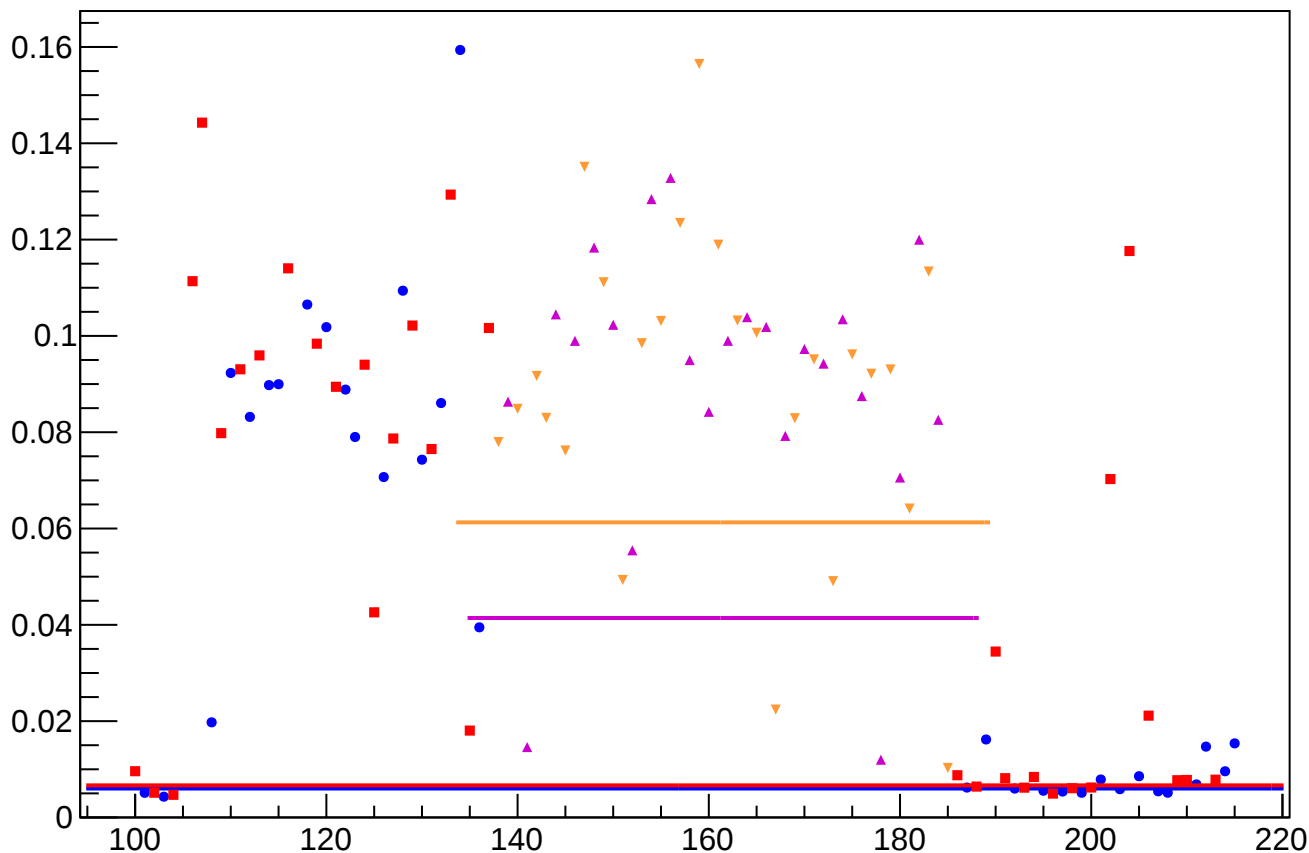
Right: -4.069 ± 0.000 $\chi^2/\text{NDF}: 562457434129.8/65$

In: -4.123 ± 0.000 $\chi^2/\text{NDF}: 286089985371.6/54$

Out: -3.997 ± 0.000 $\chi^2/\text{NDF}: 275616725384.8/58$

All: -4.070 ± 0.000 $\chi^2/\text{NDF}: 562534616743.9$

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8352056.1/31

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10357194.1/33

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

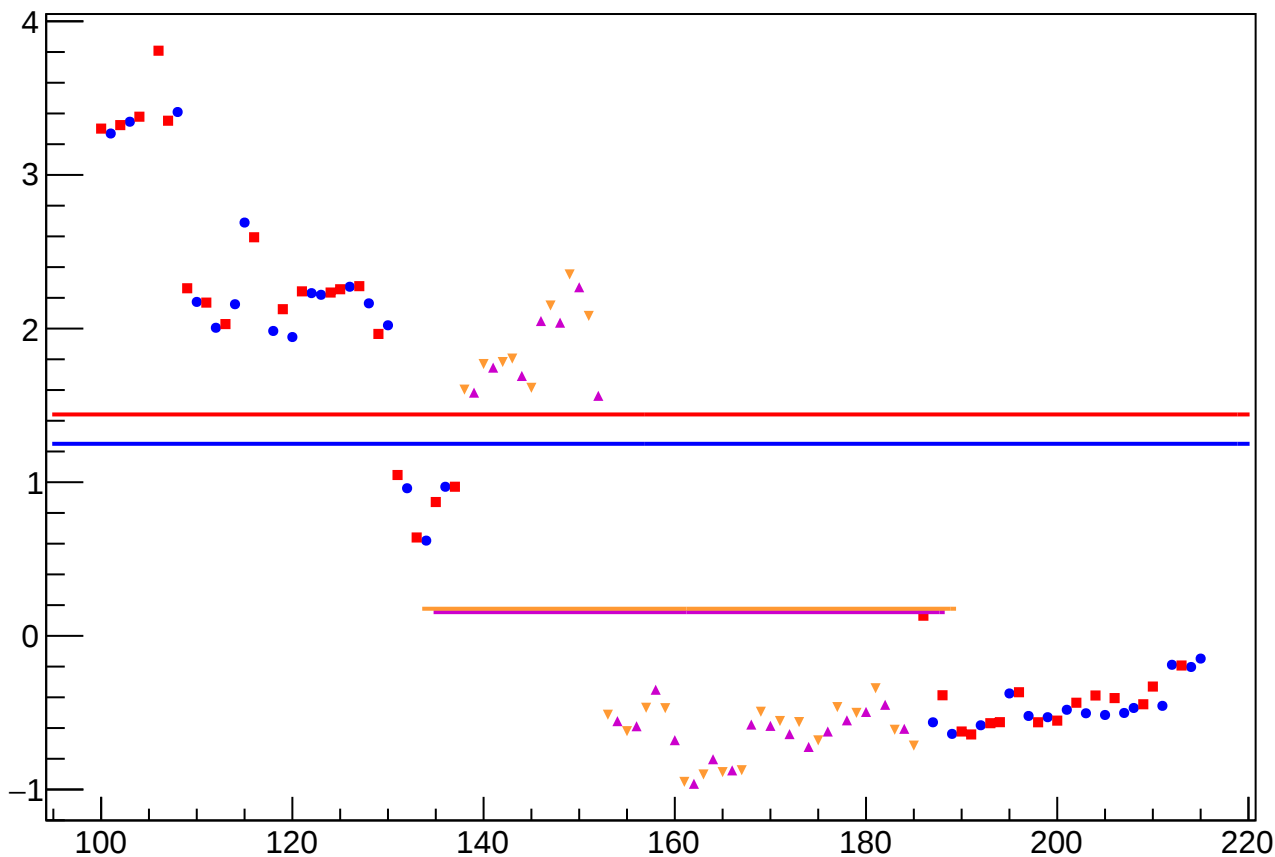
Right: 0.006+/-0.000 χ^2/NDF : 18752329.4/65

In: 0.007+/-0.000 χ^2/NDF :31804265.0/54

Out: 0.008+/-0.000 χ^2/NDF :35759157.4/58

All: 0.008+/-0.000 χ^2/NDF : 67713288.0/113

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.250+/-0.000 χ^2/NDF : 219681951115.8/31

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.441+/-0.000 χ^2/NDF : 185866200129.3/33

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

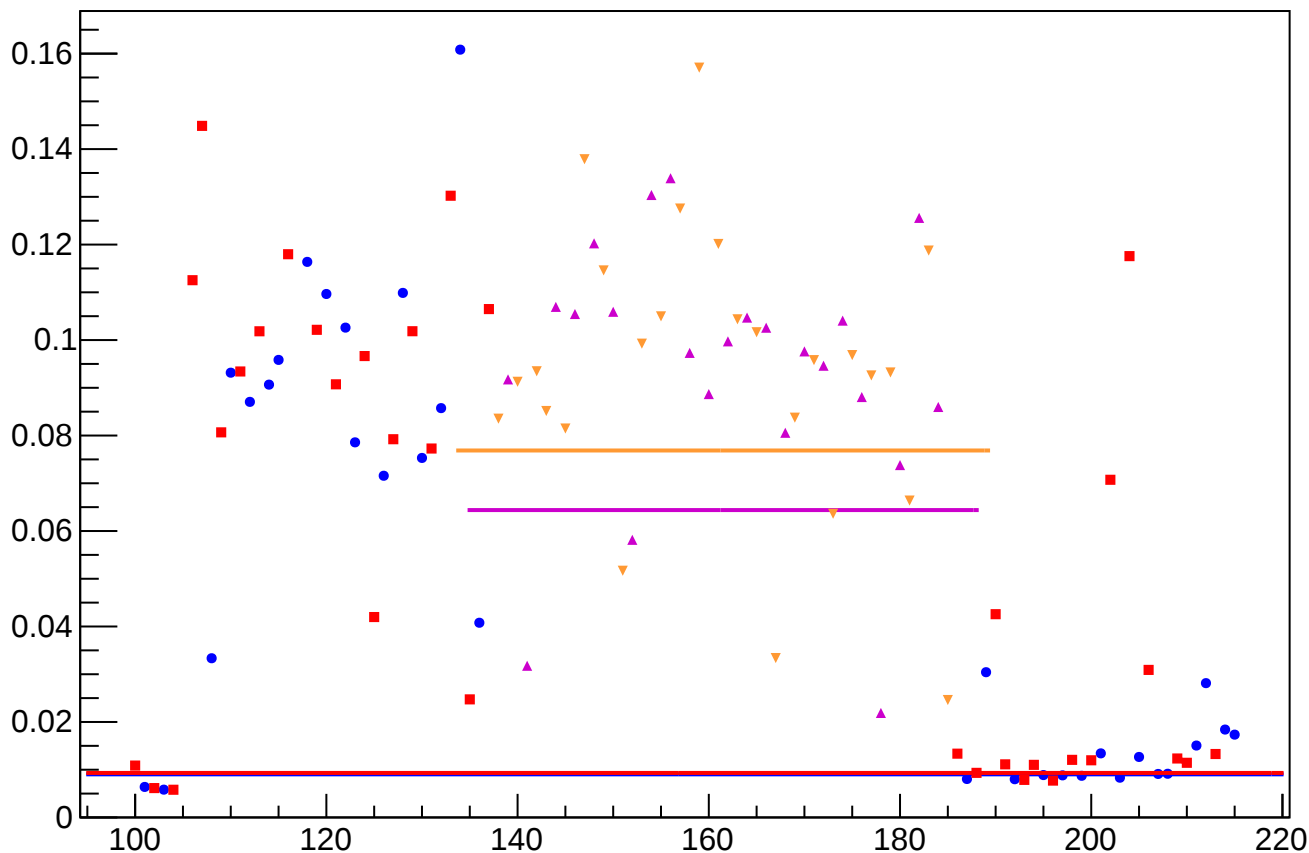
Right: 1.338+/-0.000 χ^2/NDF : 406588319637.5/65

In: 1.206+/-0.000 χ^2/NDF : 225818775558.5/54

Out: 1.389+/-0.000 χ^2/NDF : 192616900188.5/58

All: 1.290+/-0.000 χ^2/NDF : 419425909098.4

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8569830.8/31

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10383715.6/33

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

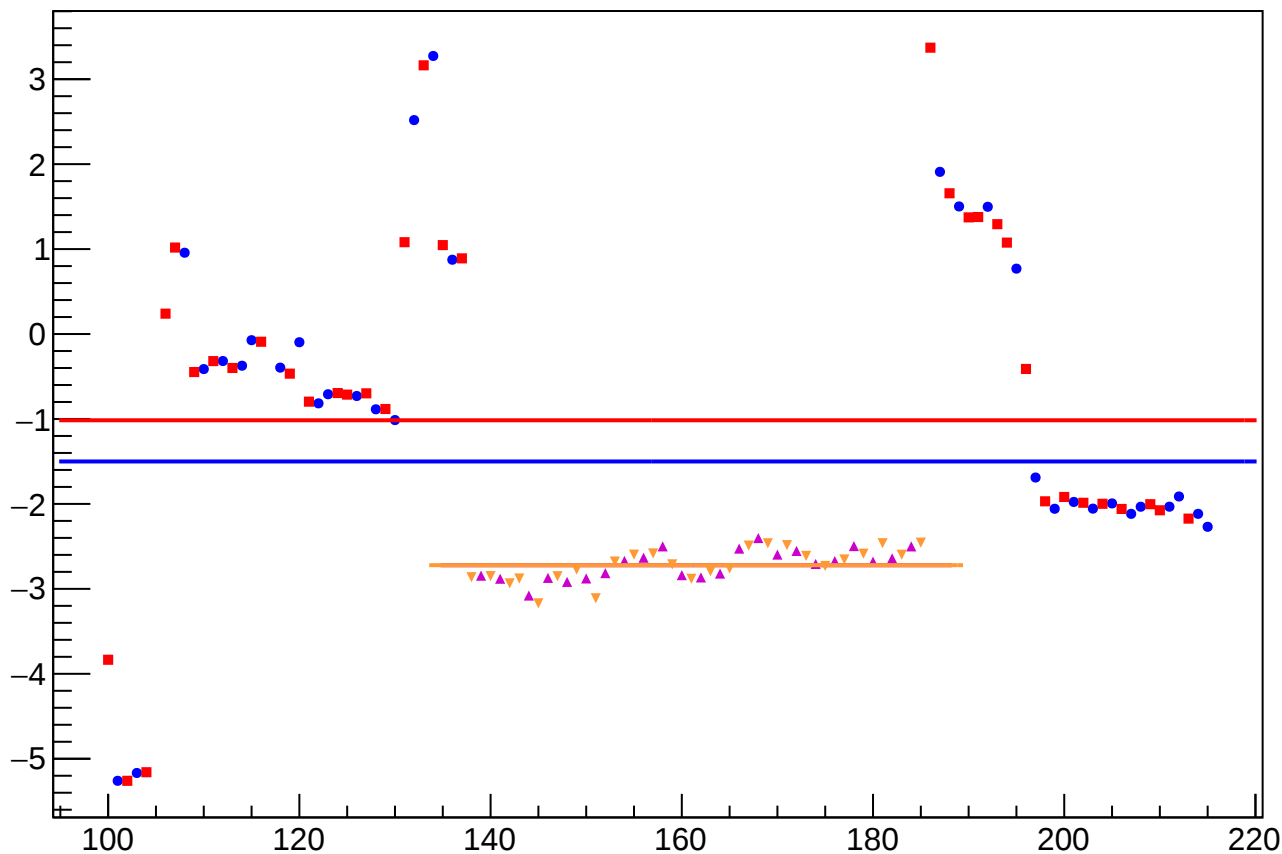
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 18958458.4/65

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30736996.2/54

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34433835.0/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65216052.3/113

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.500+/-0.000 χ^2/NDF : 208282633216.4/31

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.015+/-0.000 χ^2/NDF : 240855138227.2/33

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

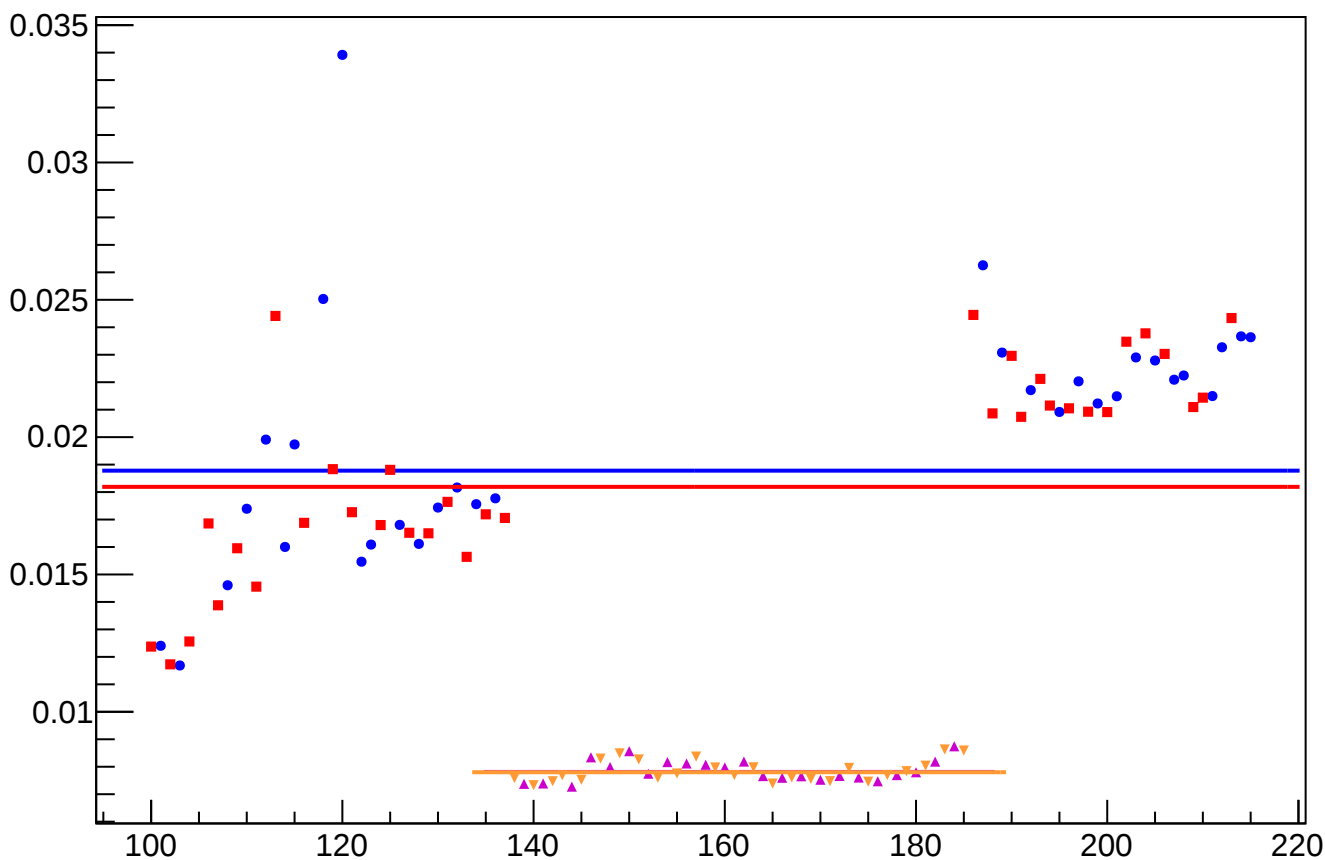
Right: -1.250+/-0.000 χ^2/NDF : 454456519507.0/65

In: -2.553+/-0.000 χ^2/NDF : 272809349874.9/54

Out: -2.485+/-0.000 χ^2/NDF : 368529913061.0/58

All: -2.518+/-0.000 χ^2/NDF : 642104871414.0

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1567504.5/31

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1395733.2/33

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

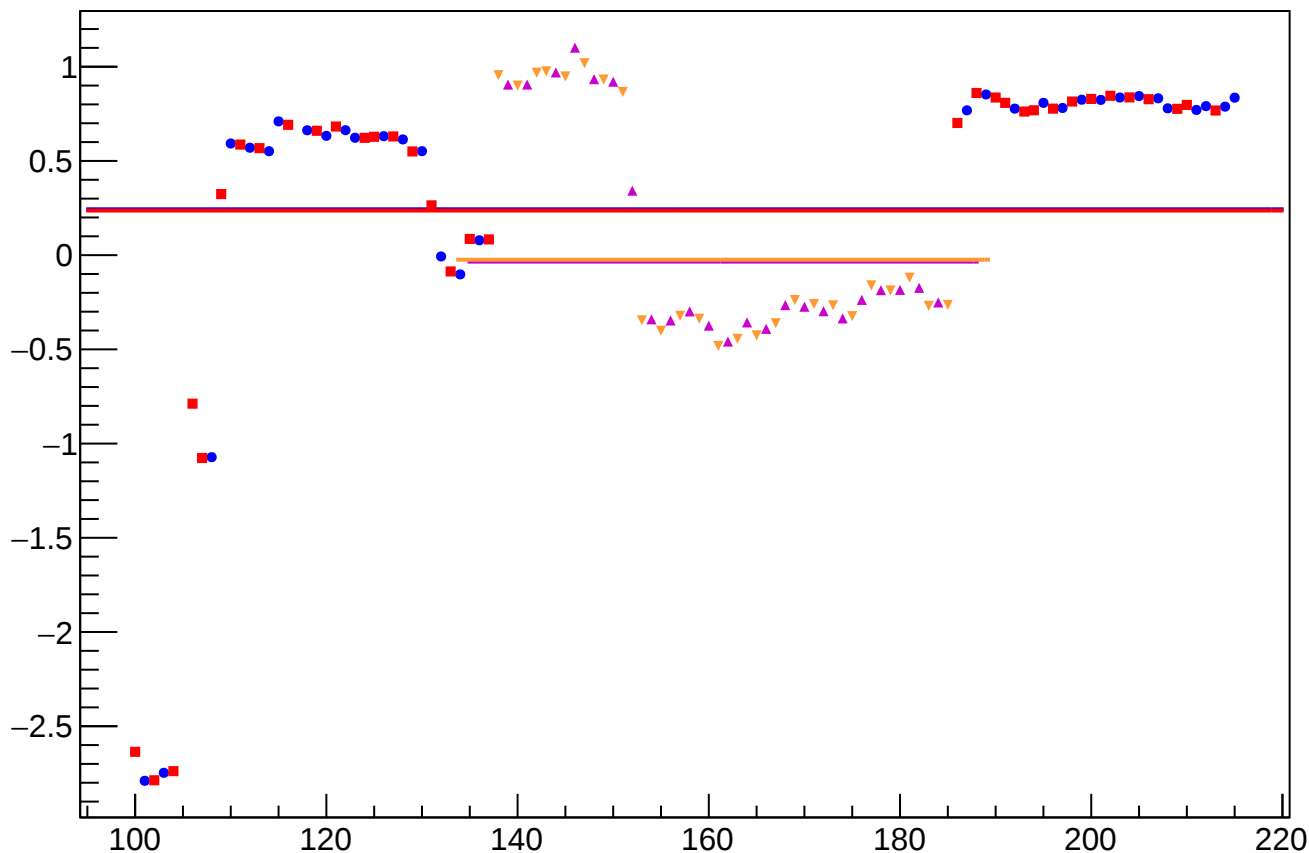
Right: 0.018+/-0.000 χ^2/NDF : 2978992.5/65

In: 0.009+/-0.000 χ^2/NDF : 10725175.3/54

Out: 0.009+/-0.000 χ^2/NDF : 10167466.4/58

All: 0.009+/-0.000 χ^2/NDF : 20895001.0/113

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.243+/-0.000 χ^2/NDF : 900755184623.0/31

Left Out: -0.024+/-0.000 χ^2/NDF : 135451649275.0/24

Right Out: 0.237+/-0.000 χ^2/NDF : 949897077042.2/33

Left In: -0.034+/-0.000 χ^2/NDF : 113929060918.1/22

Left: -0.029+/-0.000 χ^2/NDF : 249405201350.6/47

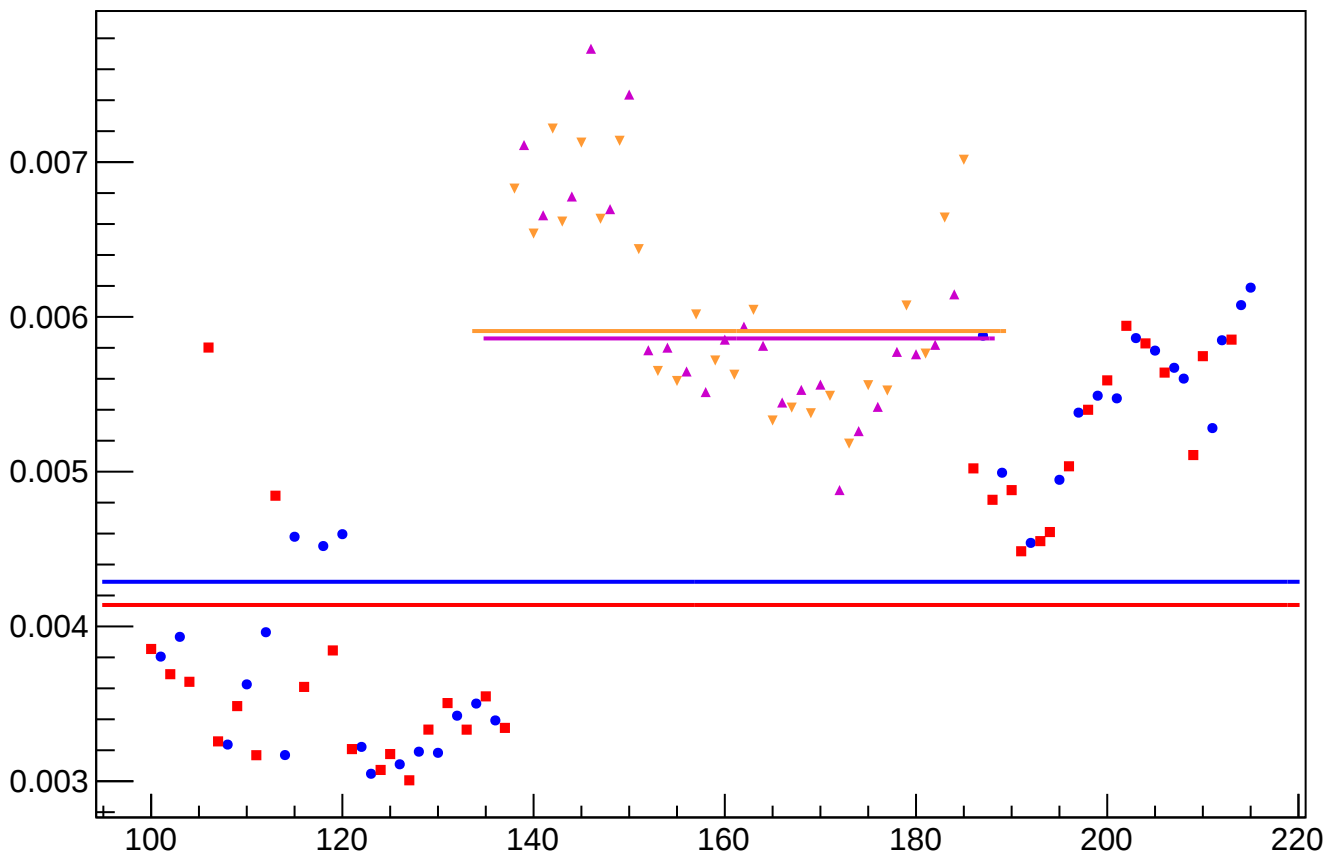
Right: 0.240+/-0.000 χ^2/NDF : 1850670677488.4/65

In: 0.146+/-0.000 χ^2/NDF : 1037951297841.4/54

Out: 0.147+/-0.000 χ^2/NDF : 1106907492479.7/58

All: 0.146+/-0.000 χ^2/NDF : 2144859860805.6/114

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1851549.3/31

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1676173.9/33

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

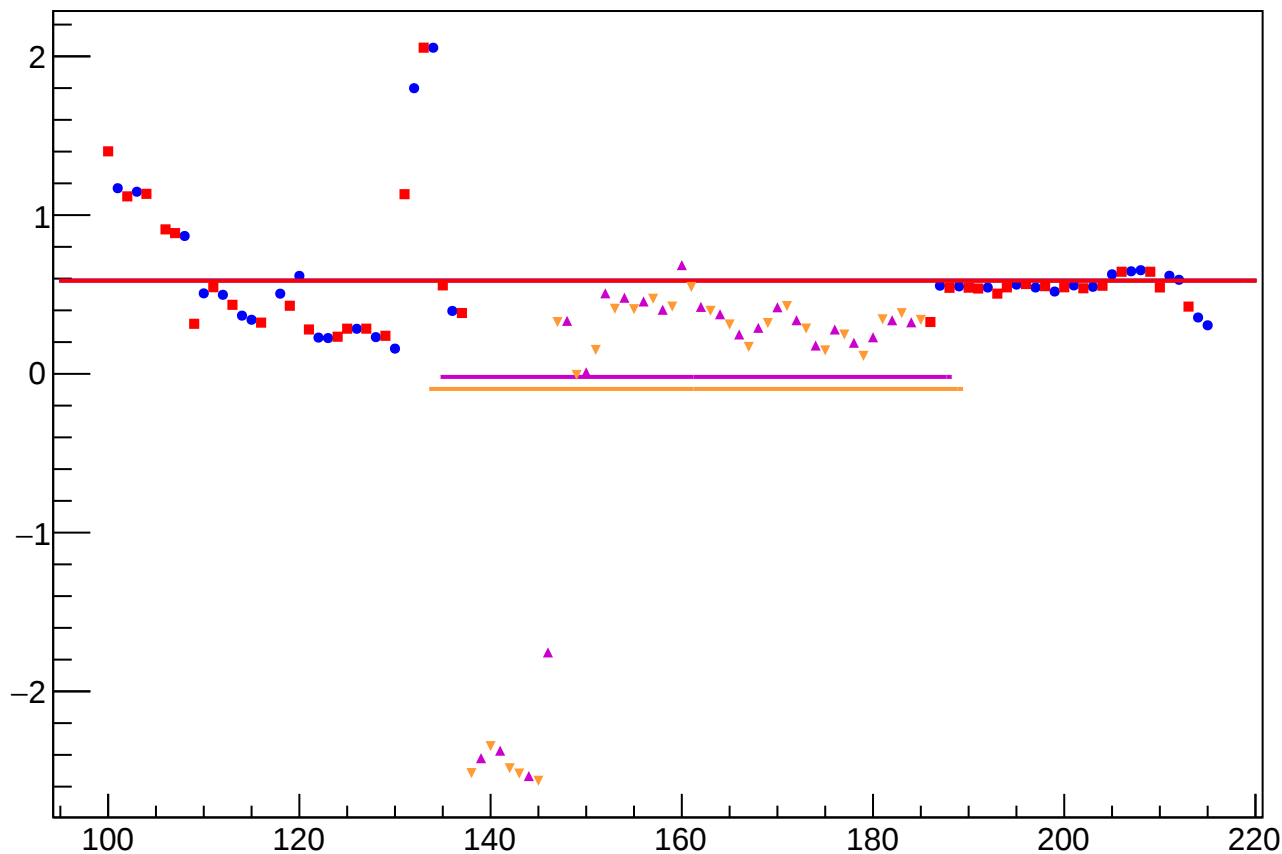
Right: 0.004+/-0.000 χ^2/NDF : 3547649.6/65

In: 0.005+/-0.000 χ^2/NDF :3708782.4/54

Out: 0.005+/-0.000 χ^2/NDF :3973363.6/58

All: 0.005+/-0.000 χ^2/NDF : 7693900.1/113

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.588+/-0.000 χ^2/NDF : 47751076689.3/31

Left Out: -0.095+/-0.000 χ^2/NDF : 505606573631.9/24

Right Out: 0.587+/-0.000 χ^2/NDF : 47631291176.9/33

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

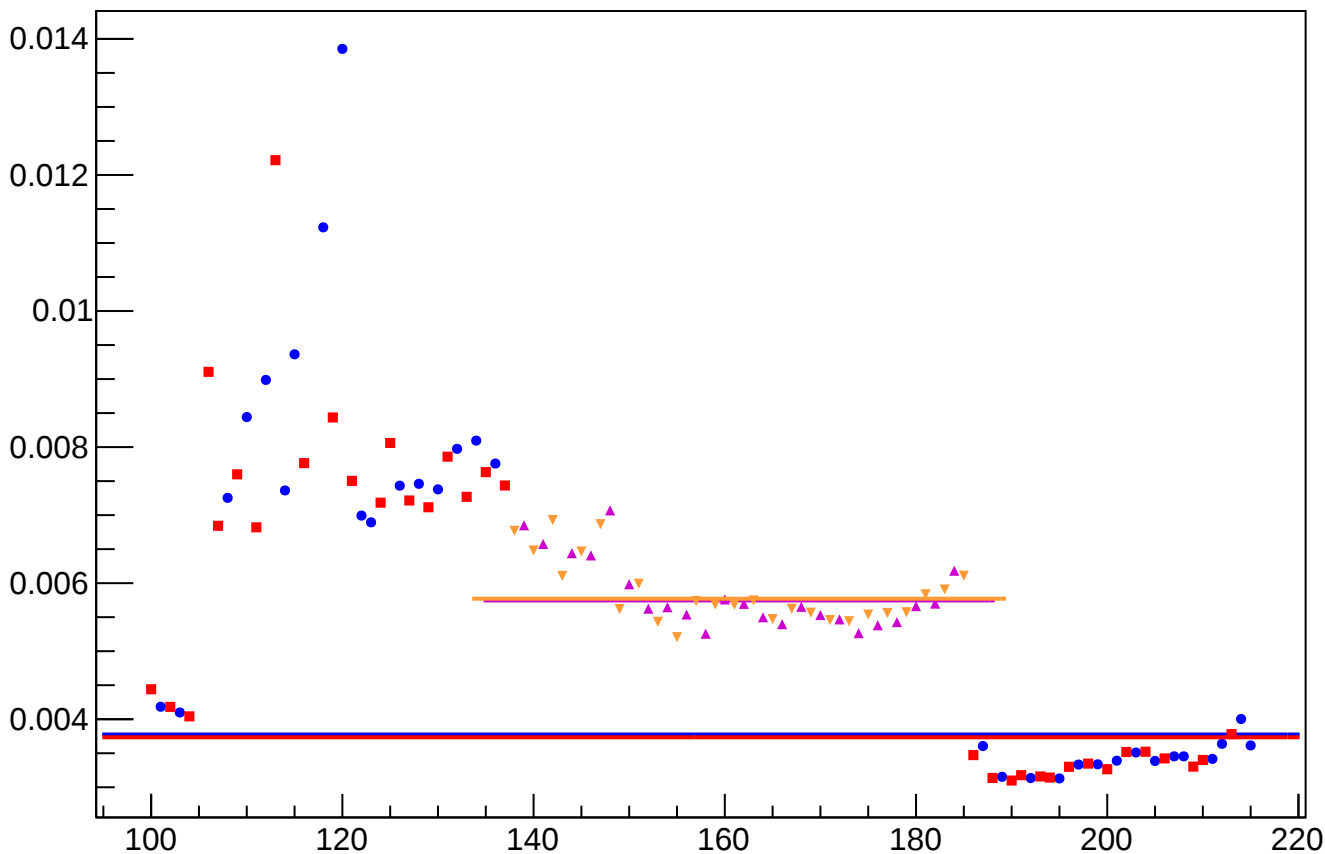
Right: 0.587+/-0.000 χ^2/NDF : 95382686235.0/65

In: 0.391+/-0.000 χ^2/NDF : 587697229547.9/54

Out: 0.362+/-0.000 χ^2/NDF : 713872192598.8/58

All: 0.376+/-0.000 χ^2/NDF : 1302197630172.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3152741.7/31

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3193455.4/33

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

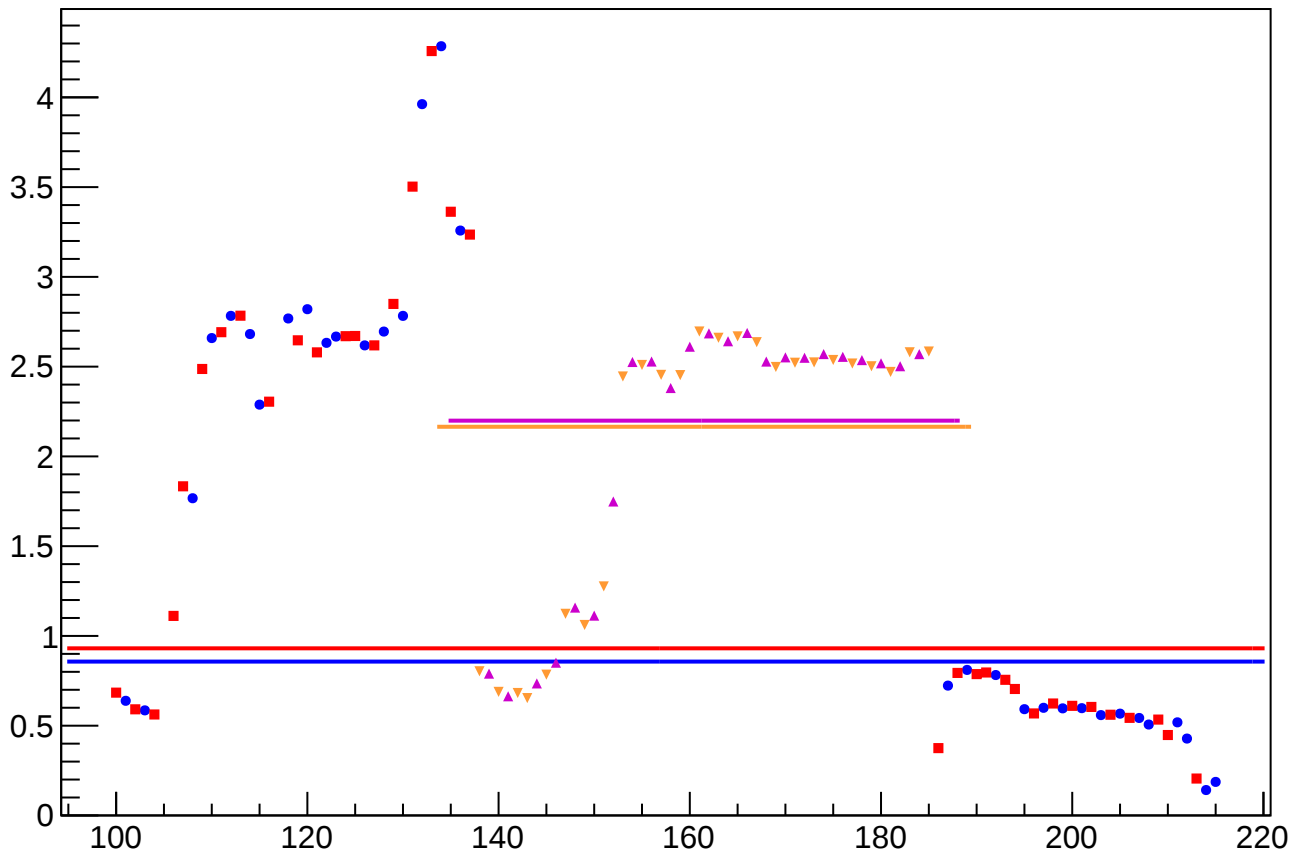
Right: 0.004+/-0.000 χ^2/NDF : 6347975.2/65

In: 0.004+/-0.000 χ^2/NDF :5945051.3/54

Out: 0.004+/-0.000 χ^2/NDF :6238946.7/58

All: 0.004+/-0.000 χ^2/NDF : 12184131.6/113

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.857+/-0.000 χ^2/NDF : 327657052571.4/31

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.931+/-0.000 χ^2/NDF : 363286686893.6/33

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

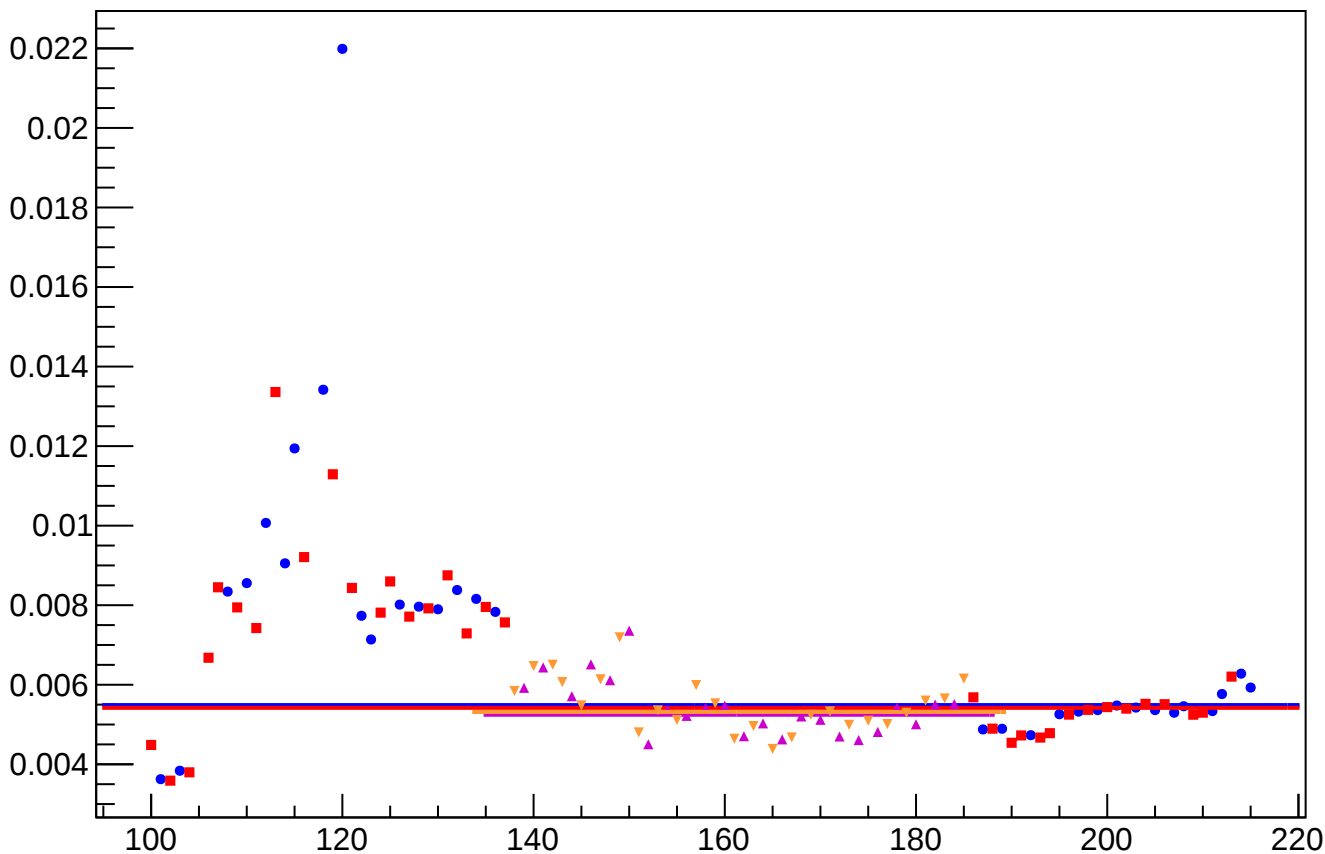
Right: 0.894+/-0.000 χ^2/NDF : 692327556186.4/65

In: 1.573+/-0.000 χ^2/NDF : 1062148283255.9/54

Out: 1.589+/-0.000 χ^2/NDF : 1073816268679.6/58

All: 1.581+/-0.000 χ^2/NDF : 2136108199293.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2044848.4/31

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1903128.6/33

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

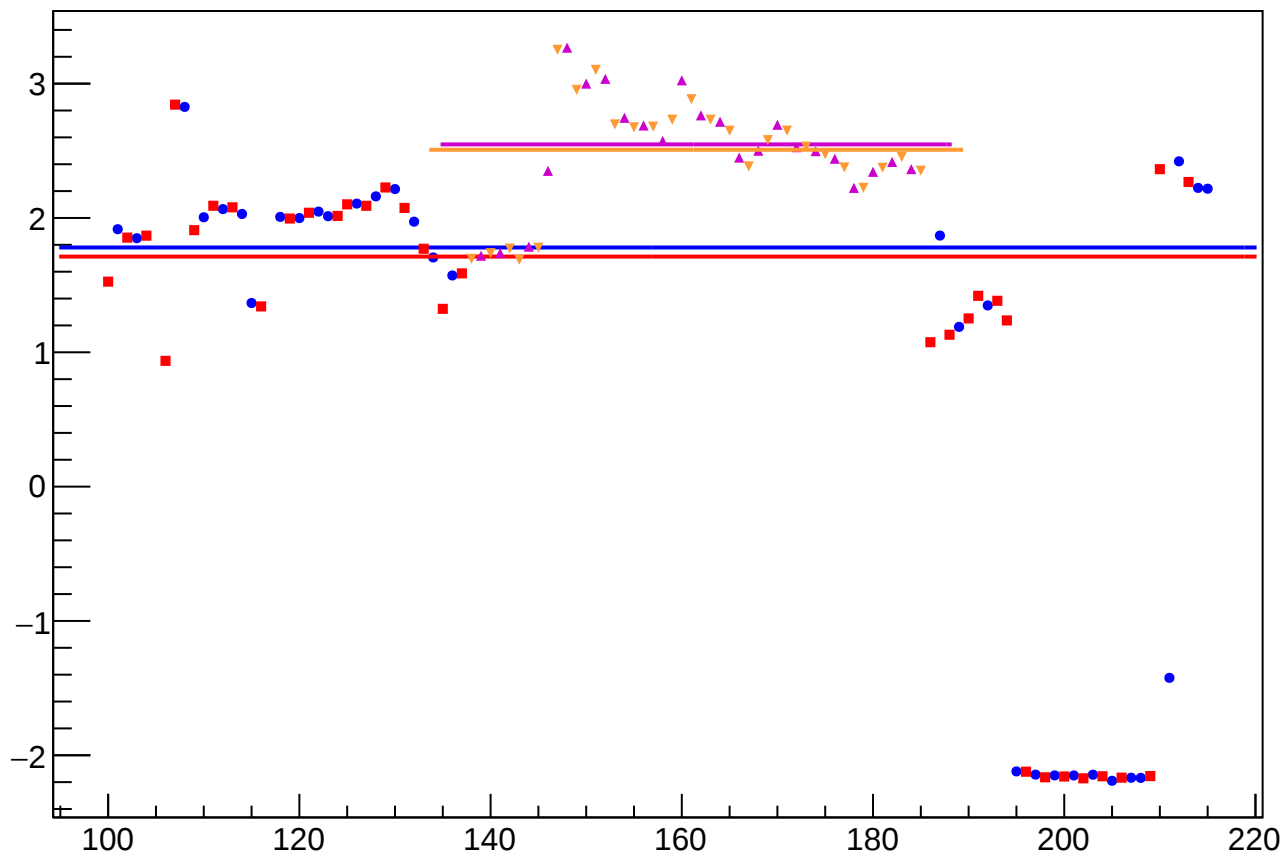
Right: 0.005+/-0.000 χ^2/NDF : 3950432.4/65

In: 0.005+/-0.000 χ^2/NDF :2502418.8/54

Out: 0.005+/-0.000 χ^2/NDF :2307894.3/58

All: 0.005+/-0.000 χ^2/NDF : 4810337.1/113

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.780 $\pm$ 0.000 χ^2 /NDF: 163116688385.0/31

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.713 $\pm$ 0.000 χ^2 /NDF: 143787934785.4/33

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

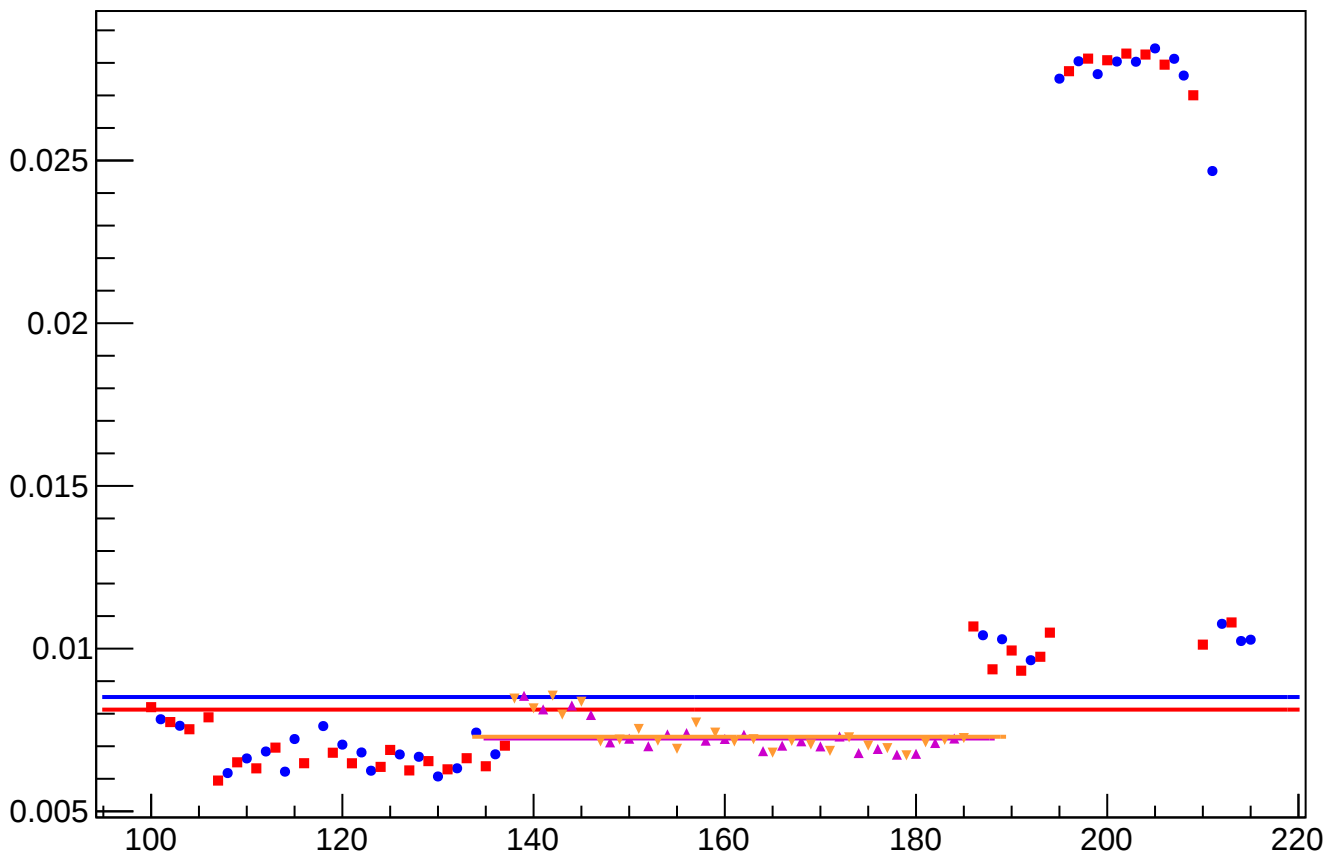
Right: 1.744 $\pm$ 0.000 χ^2 /NDF: 307343352716.9/65

In: 2.270 $\pm$ 0.000 χ^2 /NDF: 276058064313.1/54

Out: 2.203 $\pm$ 0.000 χ^2 /NDF: 275729278018.0/58

All: 2.235 $\pm$ 0.000 χ^2 /NDF: 552933187466.7

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 7671780.0/31

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6397949.2/33

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

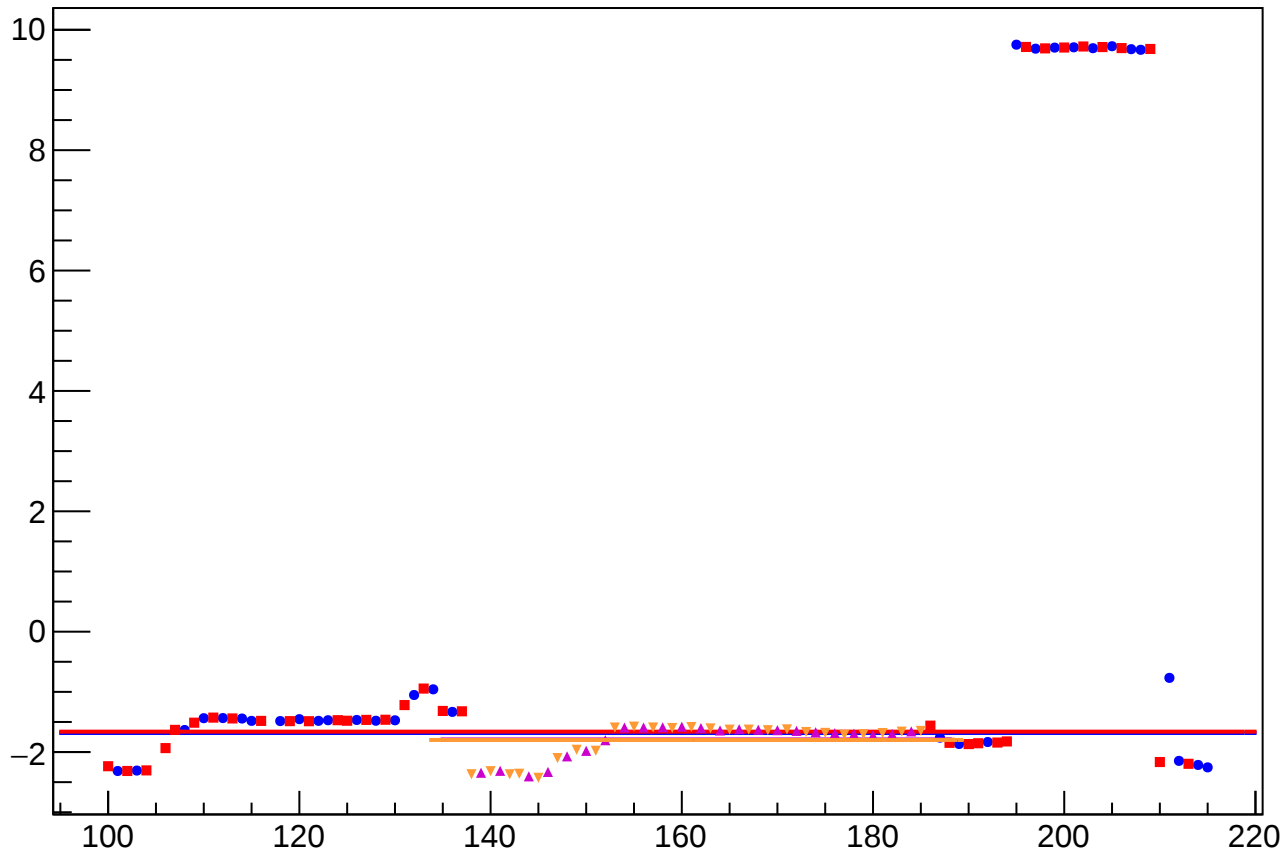
Right: 0.008+/-0.000 χ^2/NDF : 14098317.8/65

In: 0.008+/-0.000 χ^2/NDF :8169655.0/54

Out: 0.008+/-0.000 χ^2/NDF :6713843.1/58

All: 0.008+/-0.000 χ^2/NDF : 14887511.6/113

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.683 ± 0.000 χ^2/NDF : 402095917540.5/31

Left Out: -1.799 ± 0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.661 ± 0.000 χ^2/NDF : 365011907264.5/33

Left In: -1.790 ± 0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795 ± 0.000 χ^2/NDF : 345099435201.4/47

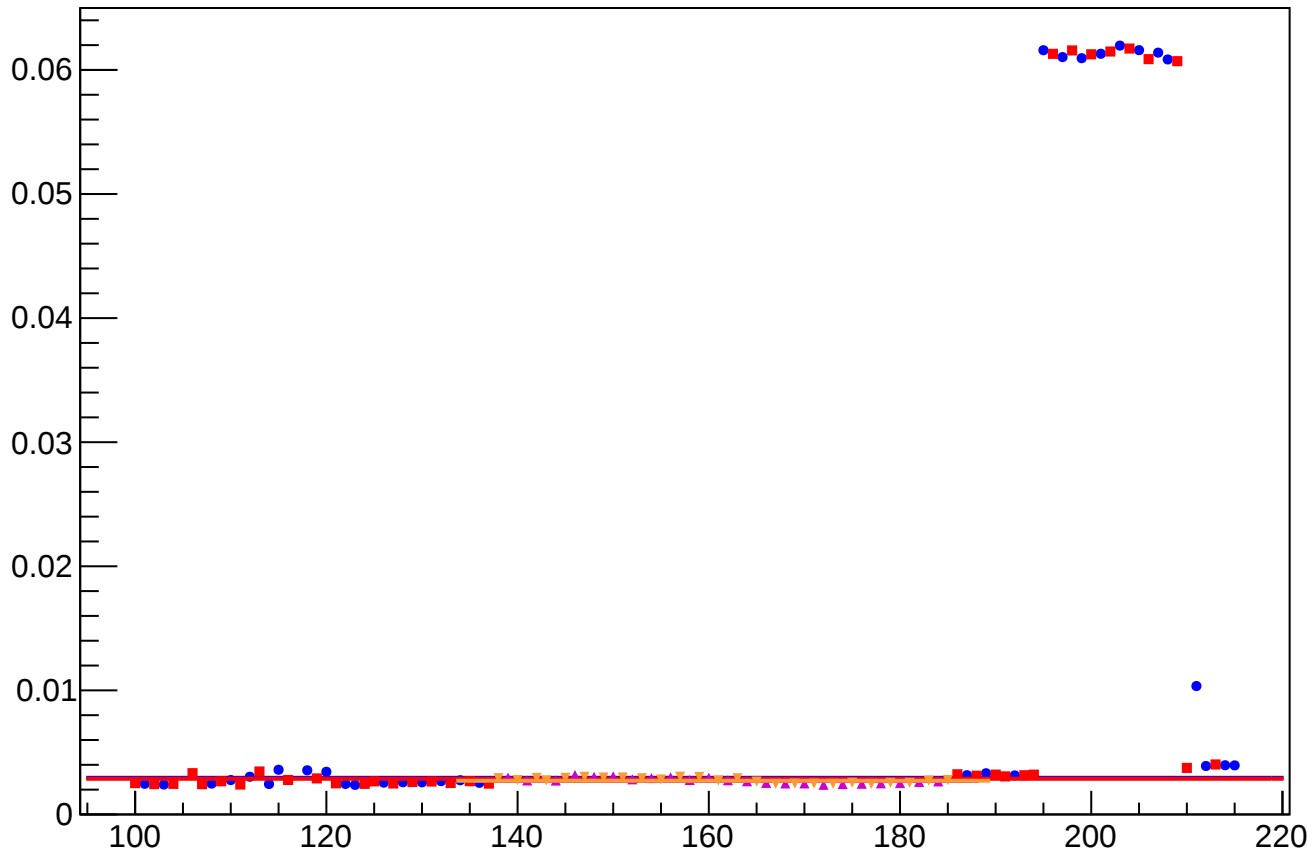
Right: -1.671 ± 0.000 χ^2/NDF : 767416531559.9/65

In: -1.754 ± 0.000 χ^2/NDF : 570667929813.6/54

Out: -1.748 ± 0.000 χ^2/NDF : 566928920908.3/58

All: -1.751 ± 0.000 χ^2/NDF : 1137648018898

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 12058701.6/31

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10117997.4/33

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

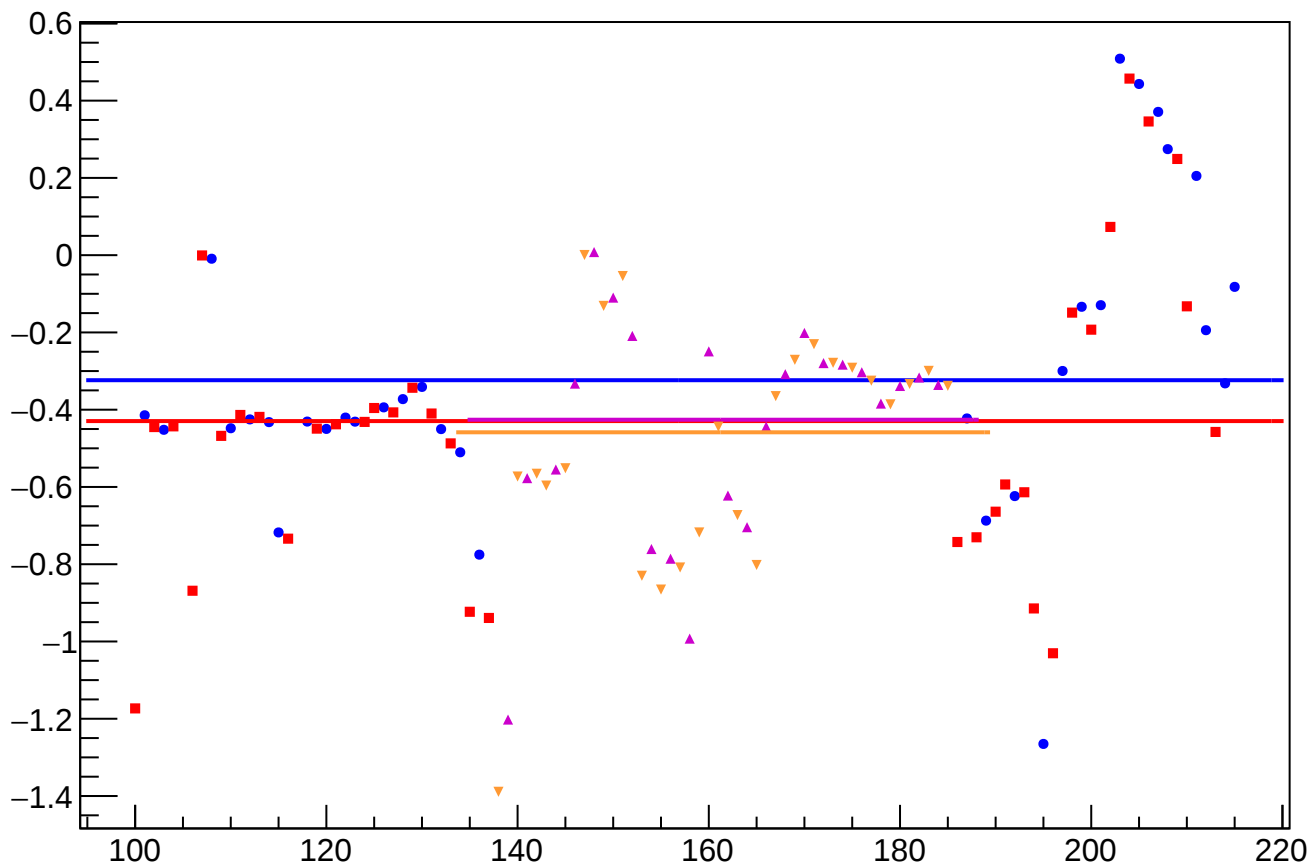
Right: 0.003+/-0.000 χ^2/NDF : 22184392.2/65

In: 0.003+/-0.000 χ^2/NDF :12377961.9/54

Out: 0.003+/-0.000 χ^2/NDF :10360711.3/58

All: 0.003+/-0.000 χ^2/NDF : 22739123.9/113

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.324+/-0.000

χ^2/NDF : 10923398398.8/31

Left: -0.443+/-0.000

χ^2/NDF : 18401926676.9/47

Left Out: -0.459+/-0.000

χ^2/NDF : 9916462814.9/24

Right: -0.378+/-0.000

χ^2/NDF : 21560262029.5/65

Right Out: -0.429+/-0.000

χ^2/NDF : 10158243554.2/33

In: -0.383+/-0.000

χ^2/NDF : 19847808340.5/54

Out: -0.446+/-0.000

χ^2/NDF : 20117345563.7/58

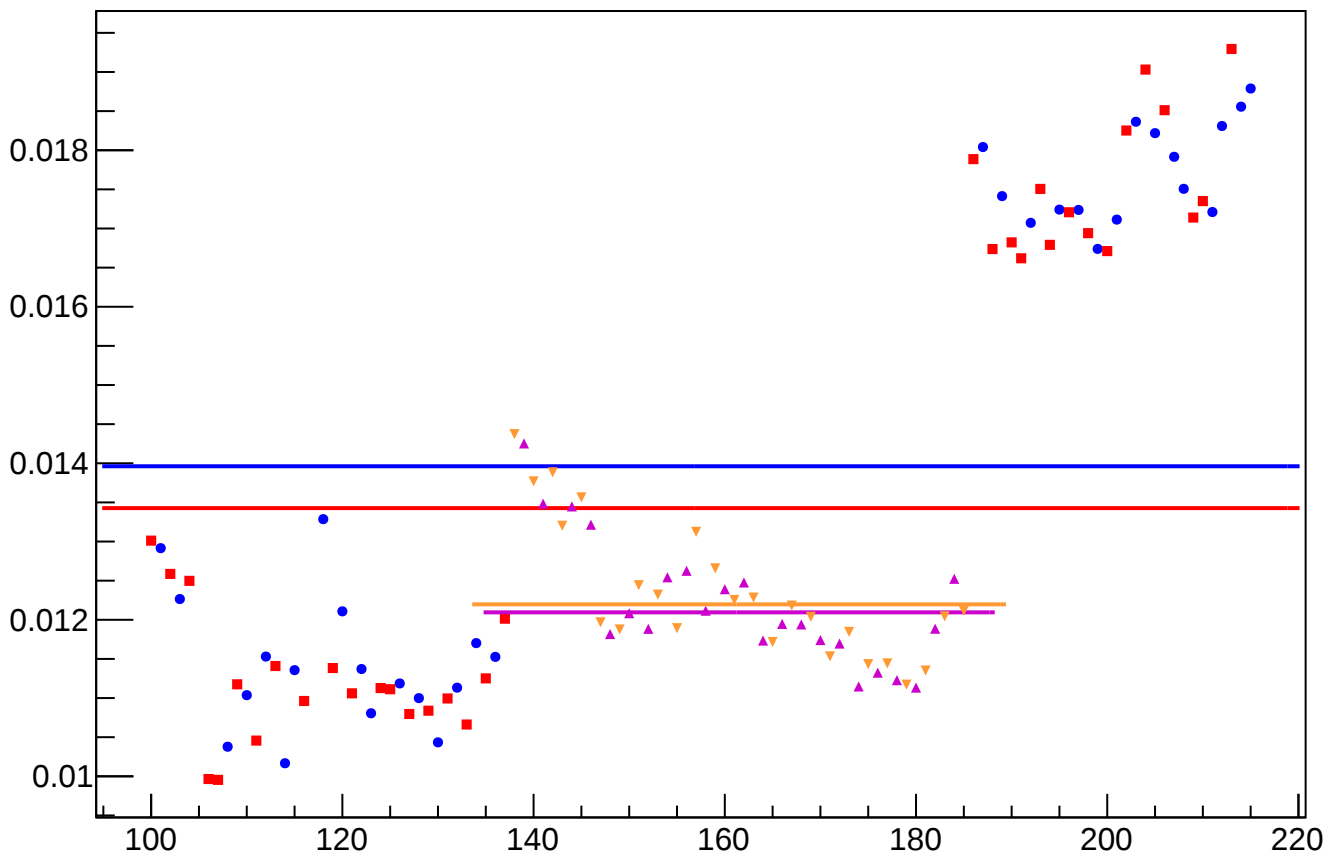
Left In: -0.426+/-0.000

χ^2/NDF : 8424222576.0/22

All: -0.415+/-0.000

χ^2/NDF : 40366988121.8/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1607547.4/31

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1757165.4/33

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

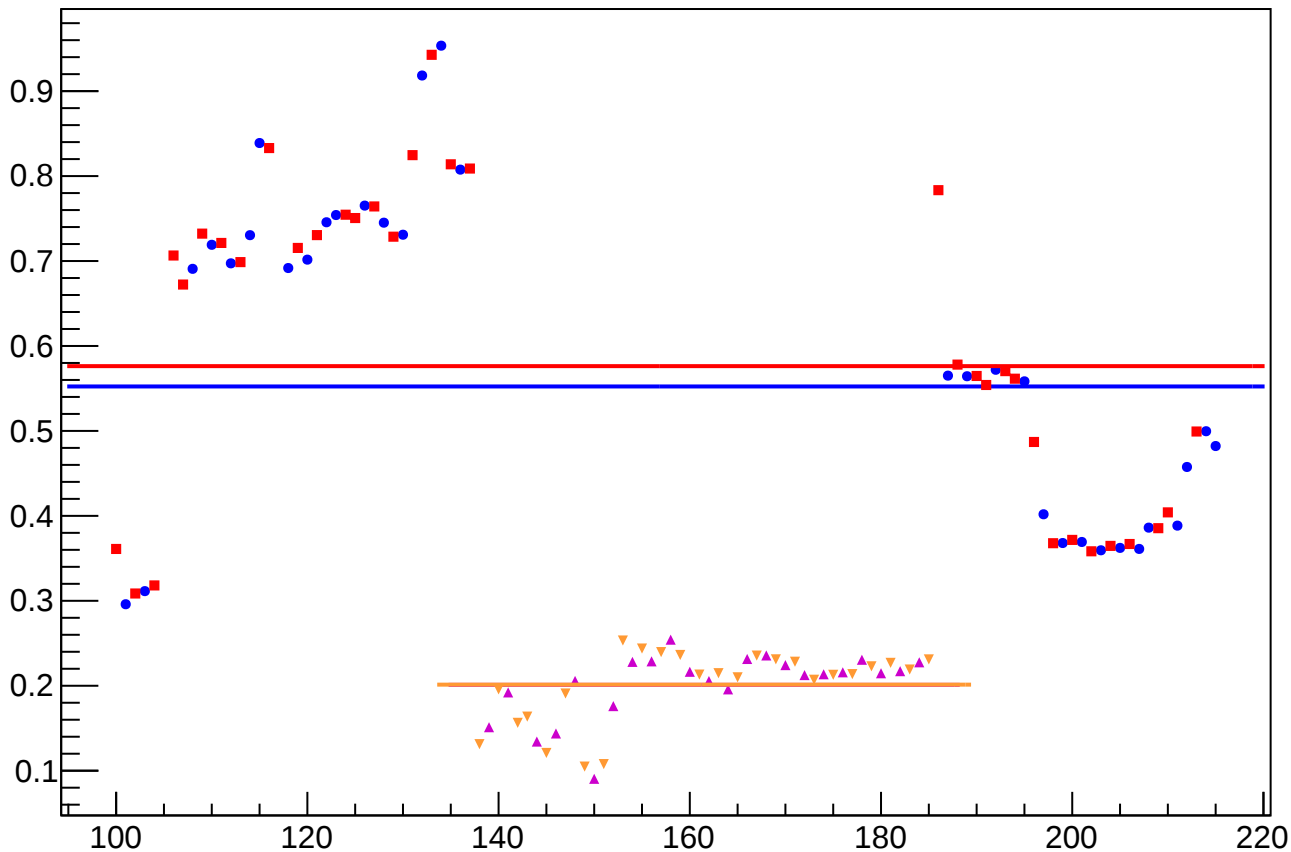
Right: 0.014+/-0.000 χ^2/NDF : 3389147.8/65

In: 0.013+/-0.000 χ^2/NDF :2067932.8/54

Out: 0.013+/-0.000 χ^2/NDF :2052167.6/58

All: 0.013+/-0.000 χ^2/NDF : 4125068.1/113

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.552 $\pm$ 0.000 χ^2 /NDF: 76584585372.9/31

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.576 $\pm$ 0.000 χ^2 /NDF: 73763444849.1/33

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

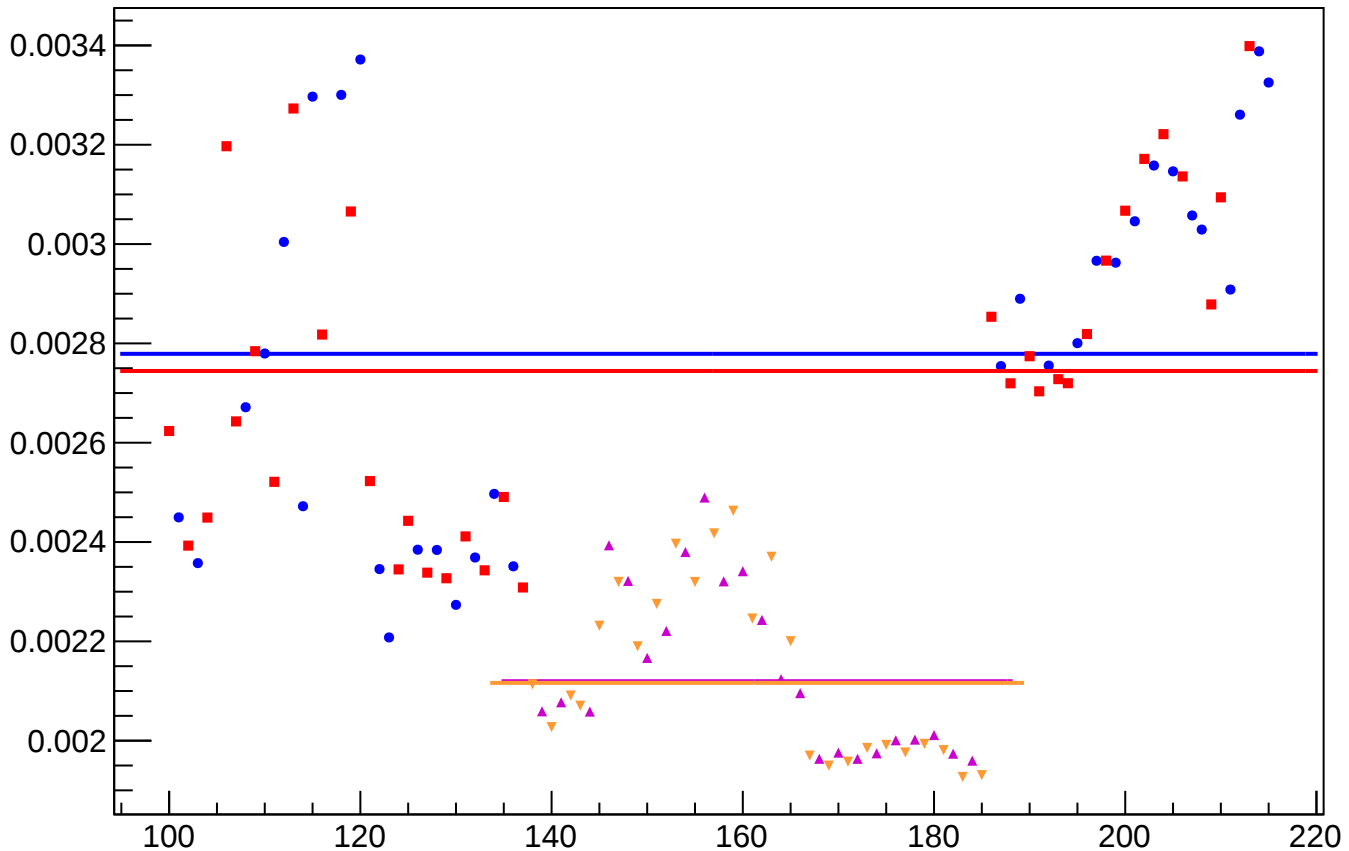
Right: 0.564 $\pm$ 0.000 χ^2 /NDF: 150968674138.0/65

In: 0.328 $\pm$ 0.000 χ^2 /NDF: 251984491451.7/54

Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 280498404156.5/58

All: 0.330 $\pm$ 0.000 χ^2 /NDF: 532559197245.2

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 533367.5/31

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 401802.6/33

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

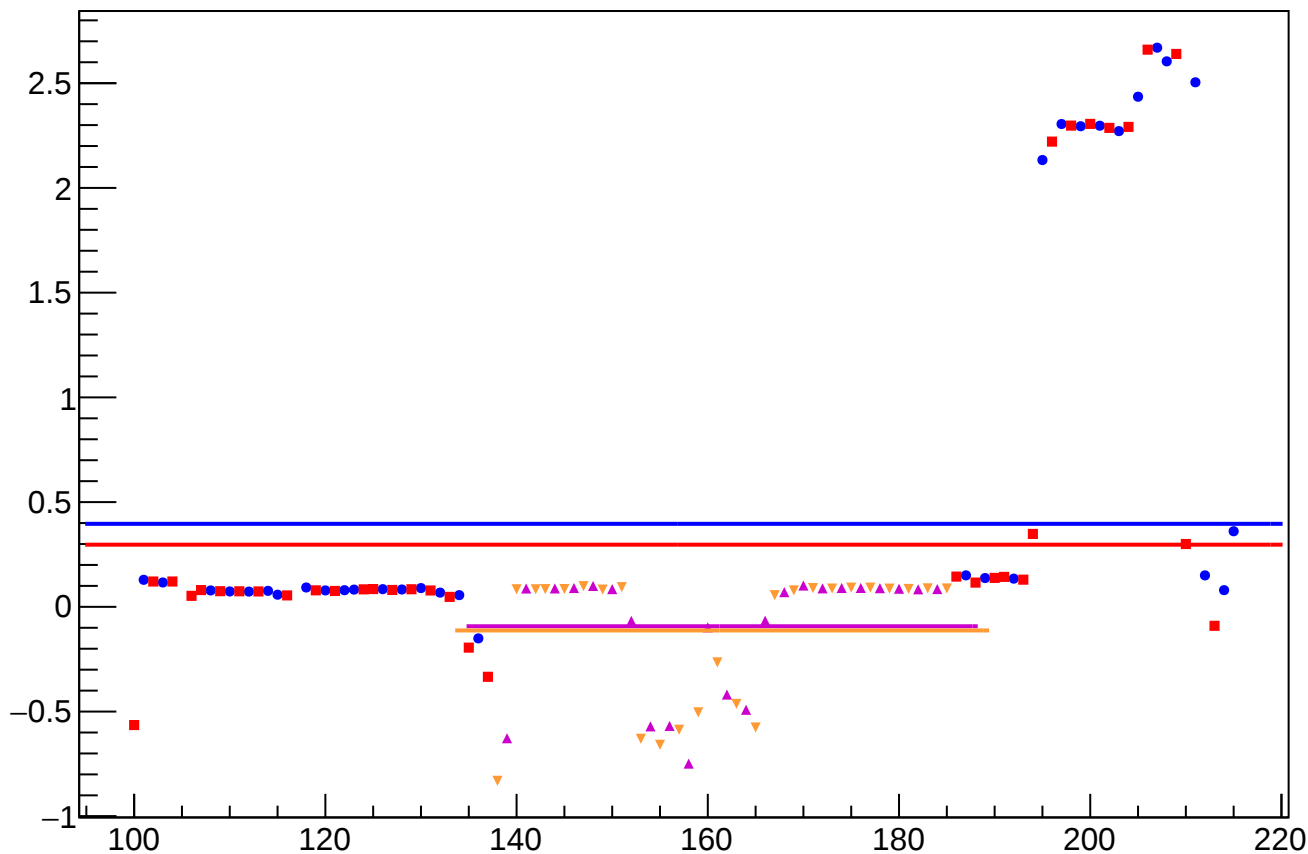
Right: 0.003+/-0.000 χ^2/NDF : 937754.2/65

In: 0.002+/-0.000 χ^2/NDF :1917853.3/54

Out: 0.002+/-0.000 χ^2/NDF :1746712.3/58

All: 0.002+/-0.000 χ^2/NDF : 3667252.9/113

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.396+/-0.000

χ^2/NDF : 61376458294.8/31

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.344+/-0.000

χ^2/NDF : 114057125241.4/65

Right Out: 0.297+/-0.000

χ^2/NDF : 52186722862.1/33

In: 0.105+/-0.000

χ^2/NDF : 85831693610.4/54

Out: 0.060+/-0.000

χ^2/NDF : 76105844002.7/58

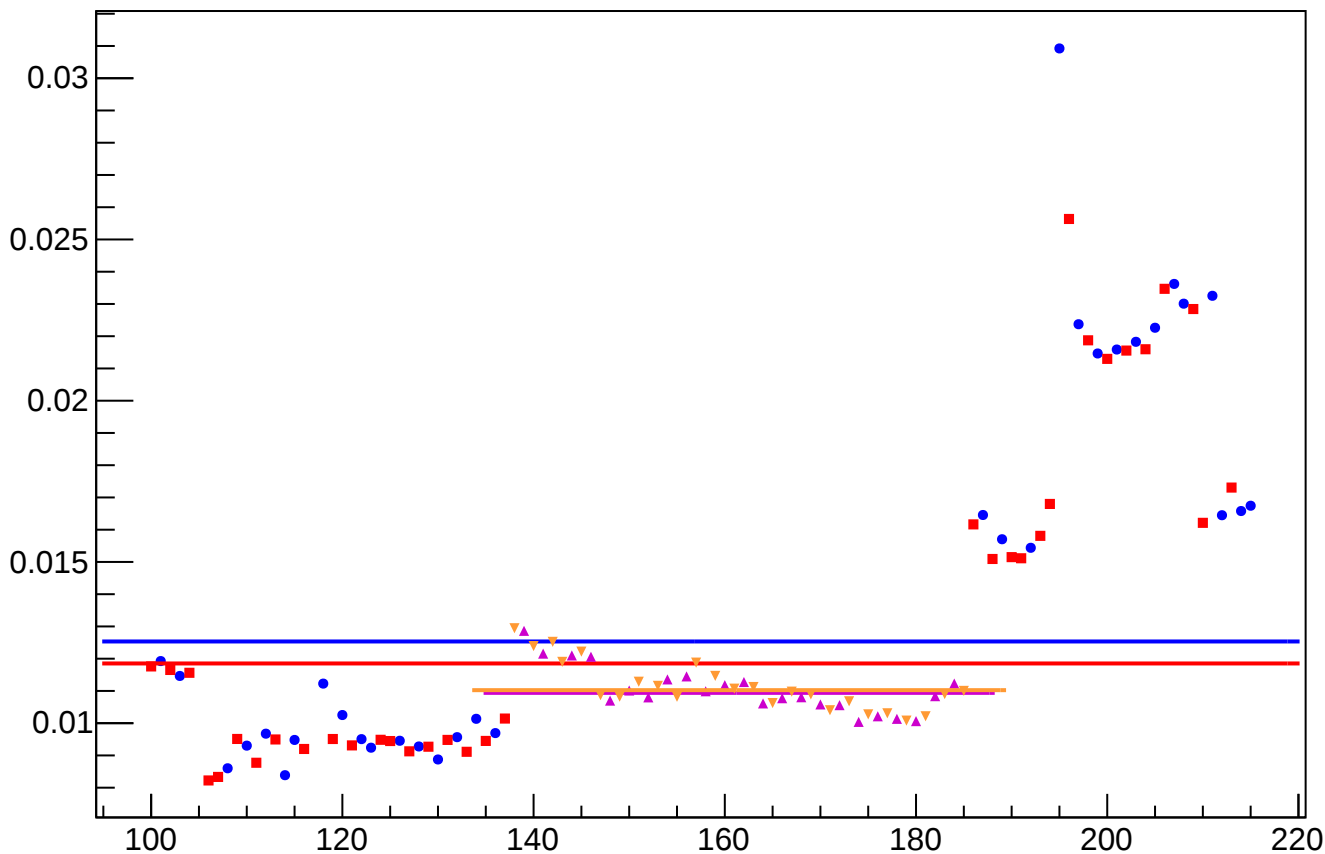
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.082+/-0.000

χ^2/NDF : 162180016601.5

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4465808.1/31

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4047817.5/33

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

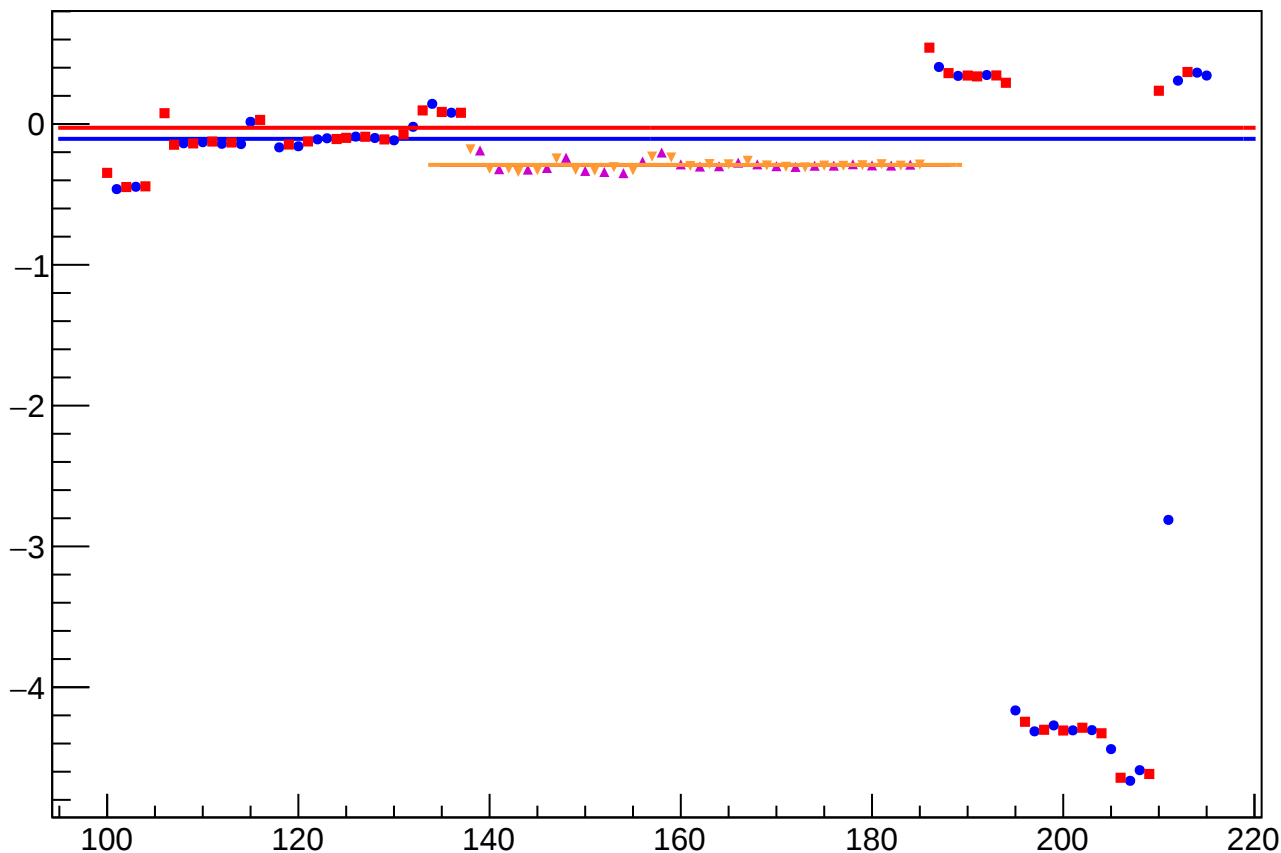
Right: 0.012+/-0.000 χ^2/NDF : 8559950.4/65

In: 0.012+/-0.000 χ^2/NDF :4879382.3/54

Out: 0.011+/-0.000 χ^2/NDF :4273175.7/58

All: 0.011+/-0.000 χ^2/NDF : 9163303.1/113

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.000 $\chi^2/\text{NDF}: 387655162290.6/31$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 343495947414.5/33$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

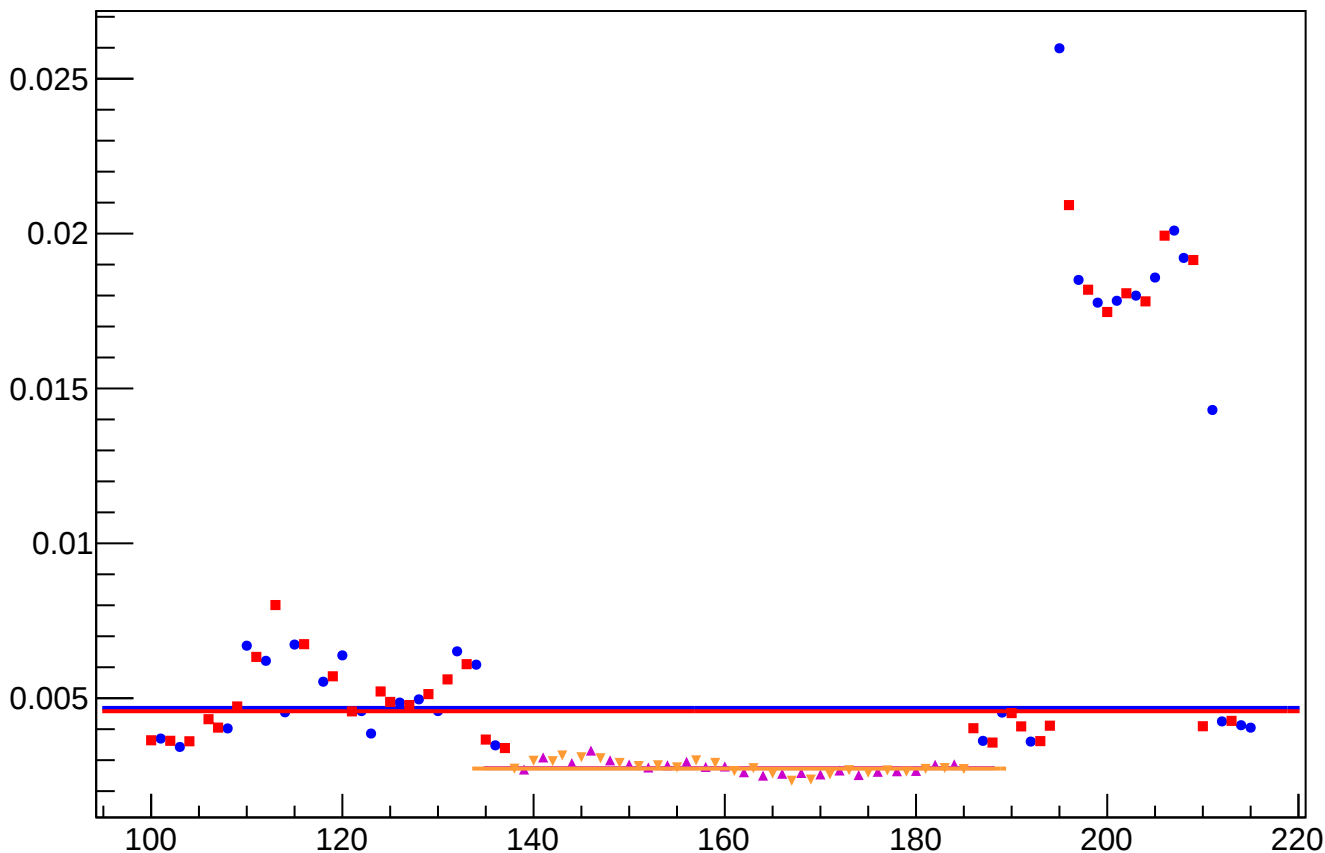
Right: -0.064 ± 0.000 $\chi^2/\text{NDF}: 732931380053.1/65$

In: -0.254 ± 0.000 $\chi^2/\text{NDF}: 405981831061.1/54$

Out: -0.236 ± 0.000 $\chi^2/\text{NDF}: 379864015049.3/58$

All: -0.245 ± 0.000 $\chi^2/\text{NDF}: 786278651761.0$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8581345.9/31

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6963815.3/33

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

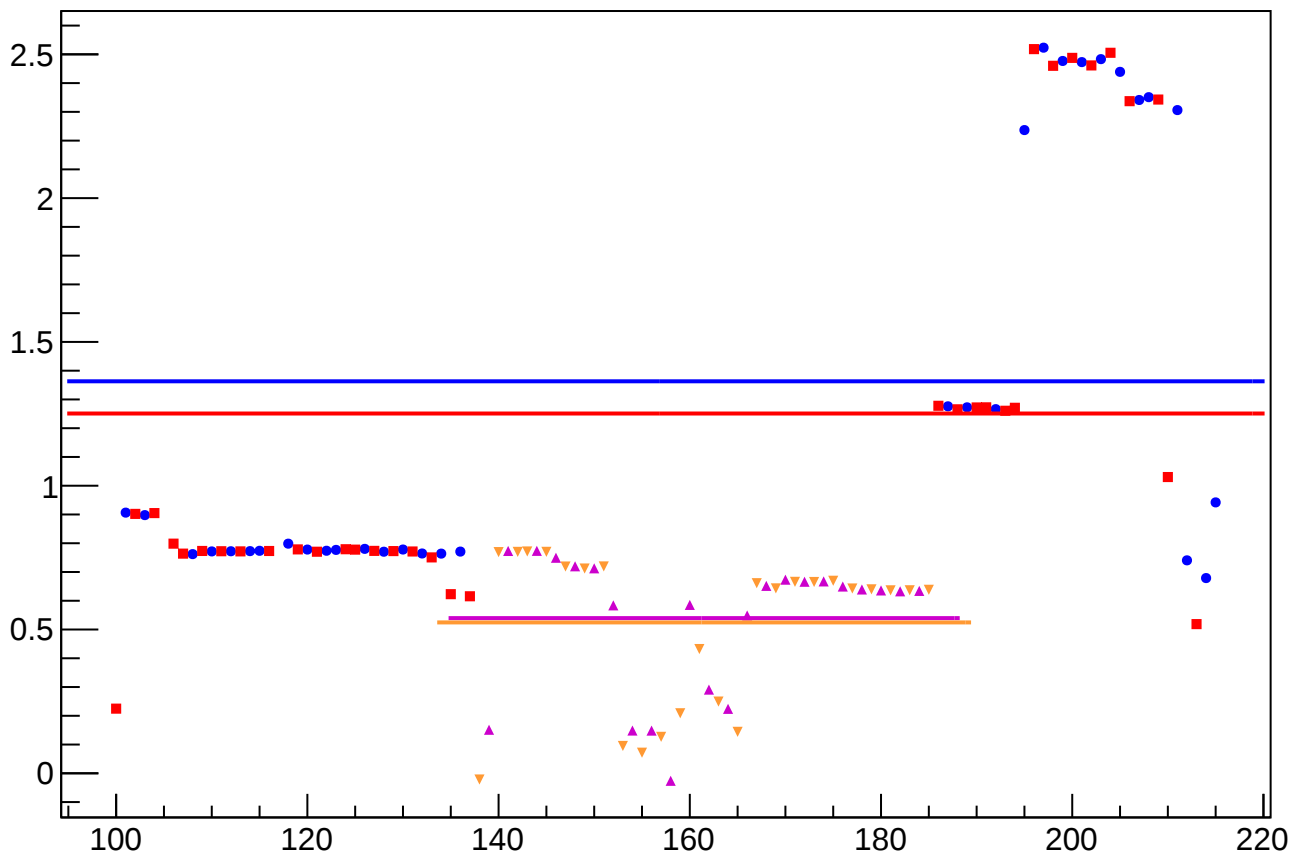
Right: 0.005+/-0.000 χ^2/NDF : 15551799.0/65

In: 0.003+/-0.000 χ^2/NDF :12061927.1/54

Out: 0.003+/-0.000 χ^2/NDF :10476325.1/58

All: 0.003+/-0.000 χ^2/NDF : 22540034.6/113

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.363+/-0.000

χ^2/NDF : 59276306343.5/31

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.305+/-0.000

χ^2/NDF : 114628974109.4/65

Right Out: 1.251+/-0.000

χ^2/NDF : 54684177626.6/33

In: 0.880+/-0.000

χ^2/NDF : 108104114202.9/54

Out: 0.829+/-0.000

χ^2/NDF : 98079043289.0/58

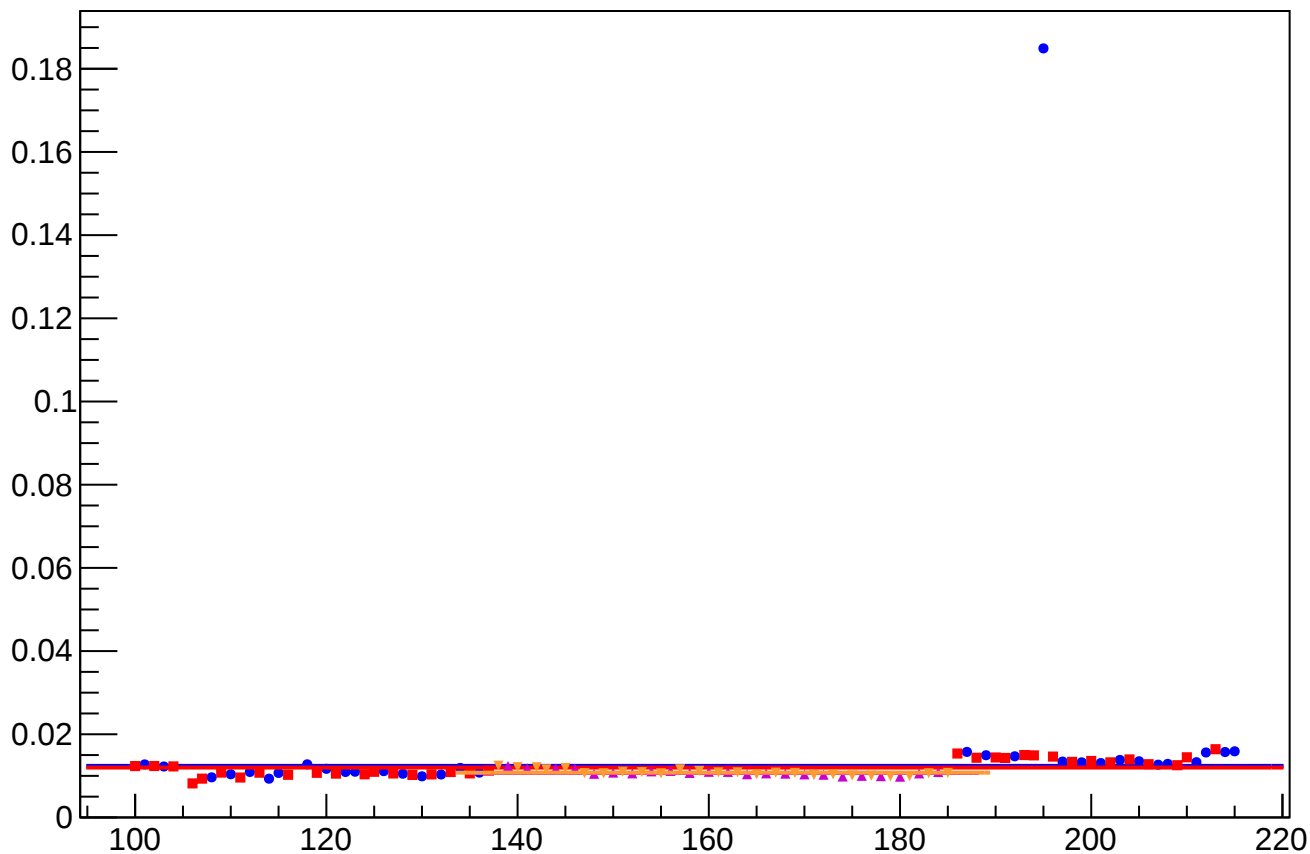
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.854+/-0.000

χ^2/NDF : 206515445794.4

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2114475.1/31

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 871438.4/33

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

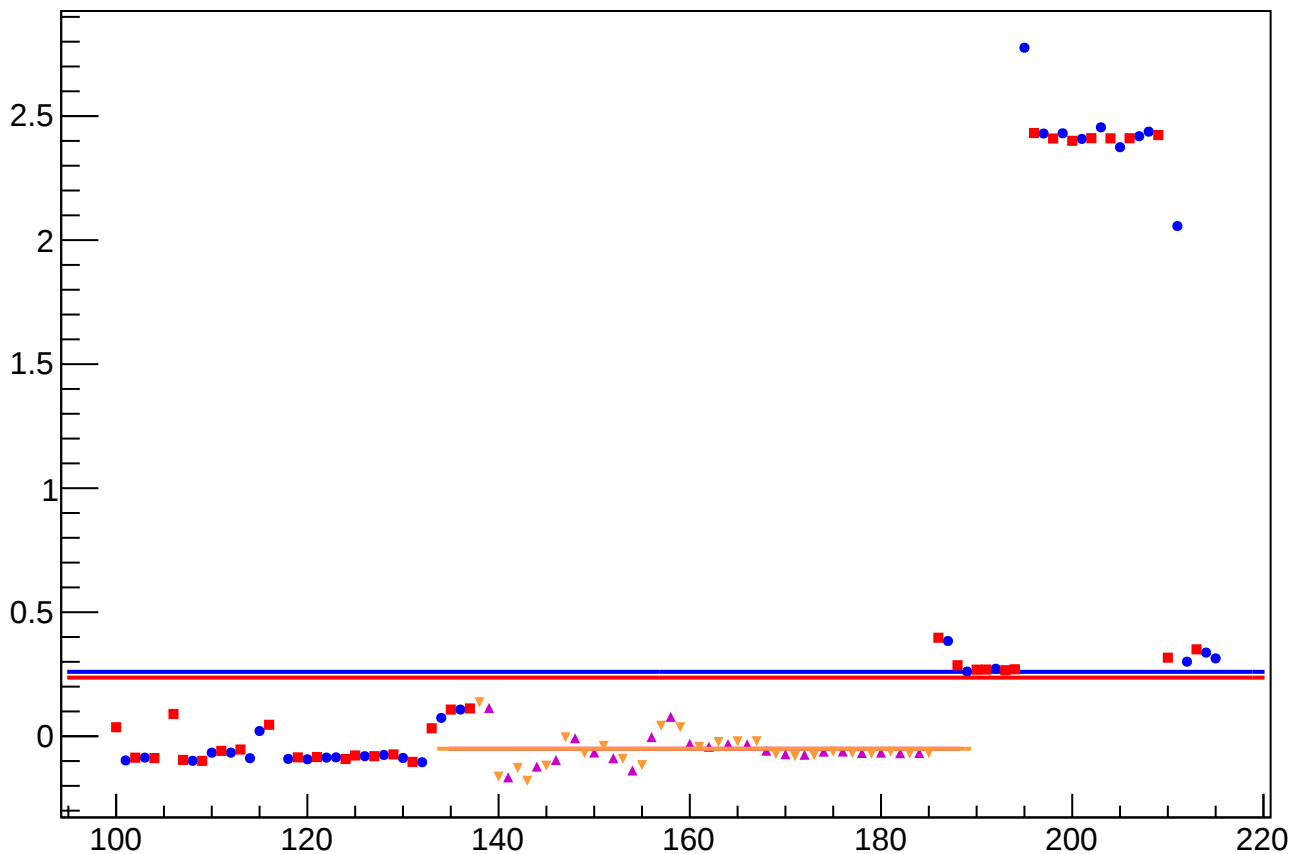
Right: 0.012+/-0.000 χ^2/NDF : 3002948.4/65

In: 0.011+/-0.000 χ^2/NDF :2585438.3/54

Out: 0.011+/-0.000 χ^2/NDF :1196282.4/58

All: 0.011+/-0.000 χ^2/NDF : 3784984.8/113

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.260+/-0.000 χ^2/NDF : 195912507644.6/31

Left Out: -0.050+/-0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.236+/-0.000 χ^2/NDF : 160224040452.2/33

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

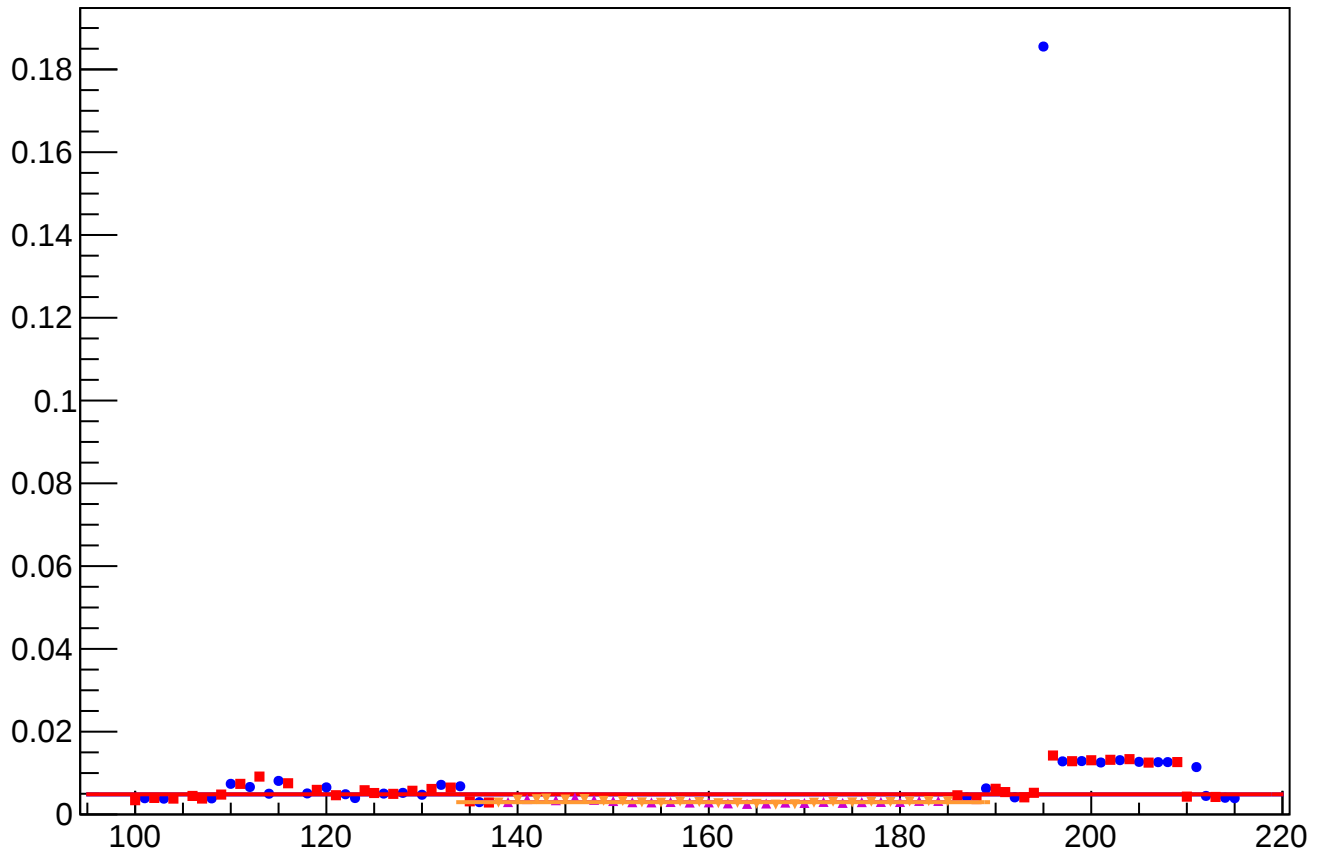
Right: 0.248+/-0.000 χ^2/NDF : 356282751270.2/65

In: 0.021+/-0.000 χ^2/NDF : 241424902727.7/54

Out: 0.012+/-0.000 χ^2/NDF : 202258555780.7/58

All: 0.016+/-0.000 χ^2/NDF : 443770781272.8

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7446829.2/31

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5155616.6/33

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

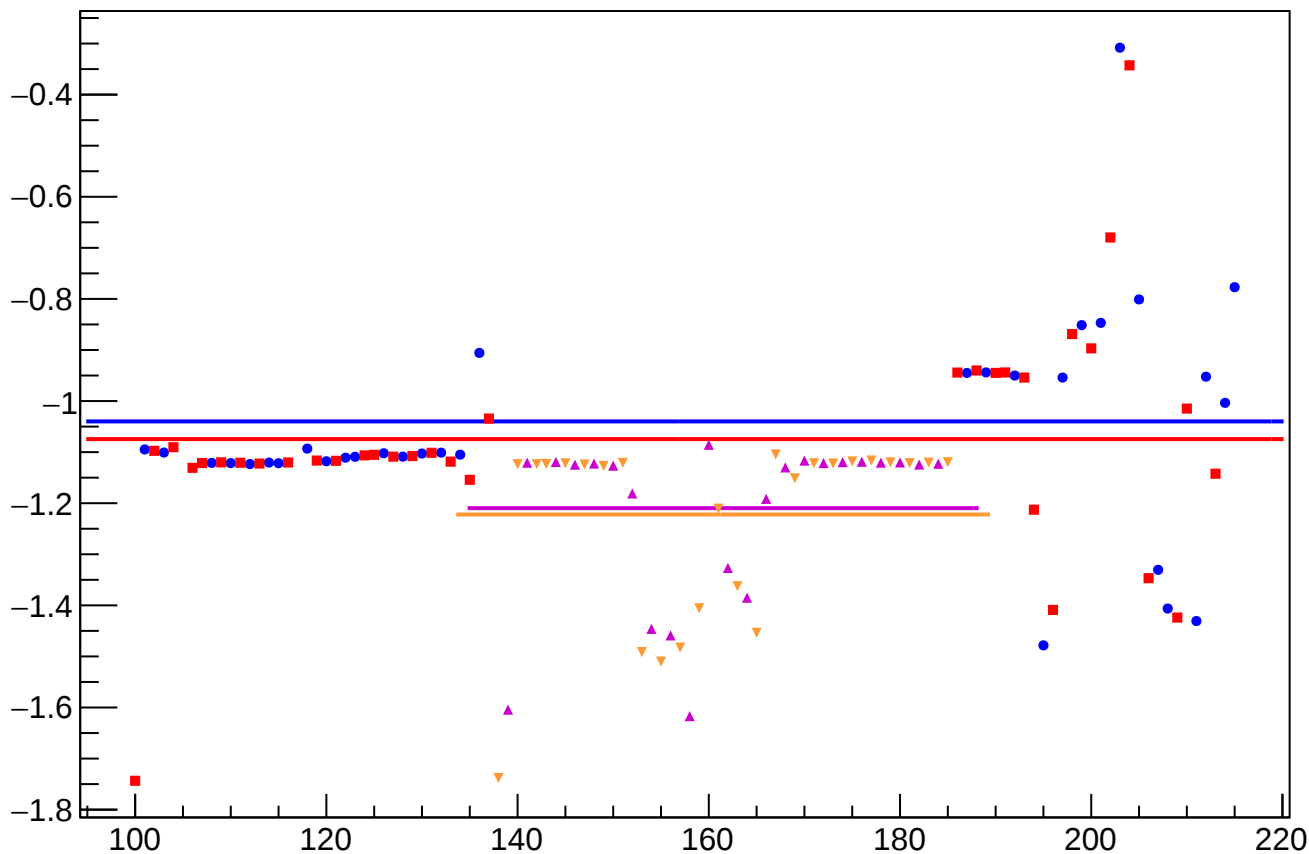
Right: 0.005+/-0.000 χ^2/NDF : 12602993.3/65

In: 0.003+/-0.000 χ^2/NDF : 10519975.3/54

Out: 0.003+/-0.000 χ^2/NDF : 8719711.2/58

All: 0.003+/-0.000 χ^2/NDF : 19244724.7/113

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.040+/-0.000

χ^2/NDF : 5871868532.3/31

Left: -1.216+/-0.000

χ^2/NDF : 9796254294.5/47

Left Out: -1.222+/-0.000

χ^2/NDF : 5279548861.3/24

Right: -1.058+/-0.000

χ^2/NDF : 10598650617.3/65

Right Out: -1.074+/-0.000

χ^2/NDF : 4662734096.5/33

In: -1.148+/-0.000

χ^2/NDF : 12276569756.7/54

Out: -1.168+/-0.000

χ^2/NDF : 11461339356.8/58

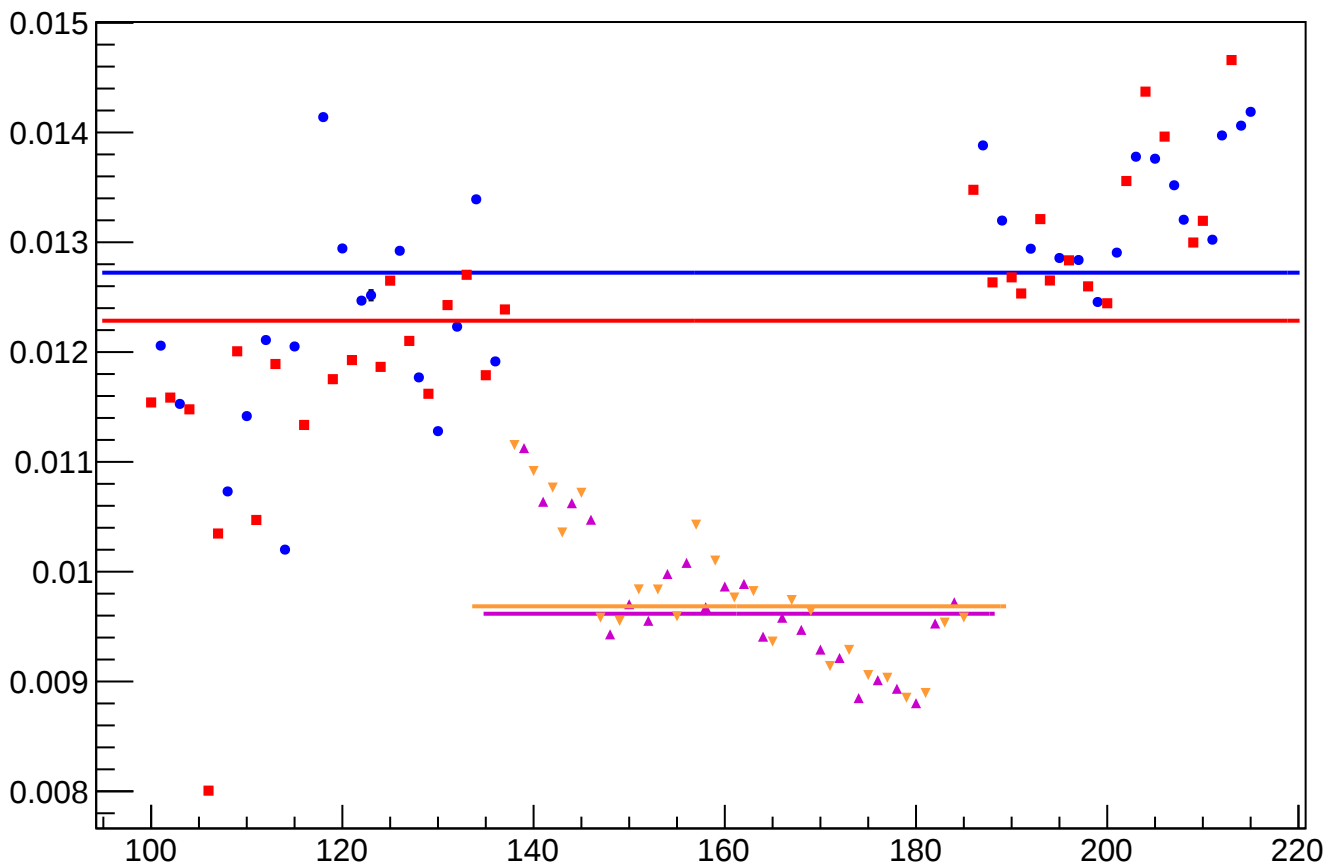
Left In: -1.210+/-0.000

χ^2/NDF : 4502367902.8/22

All: -1.158+/-0.000

χ^2/NDF : 23795878491.1/114

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 177214.7/31

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 370696.5/33

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

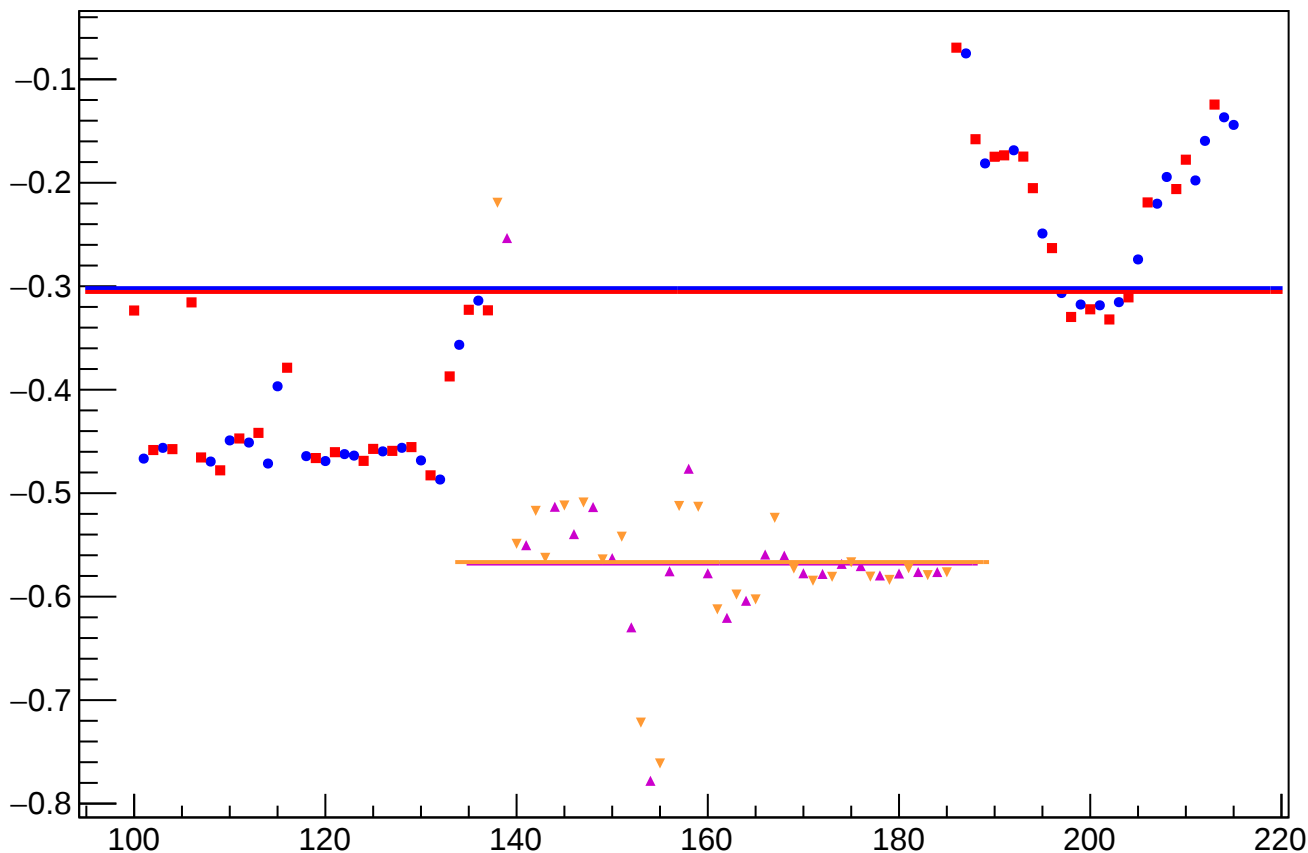
Right: 0.012+/-0.000 χ^2/NDF : 568358.4/65

In: 0.011+/-0.000 χ^2/NDF :1569653.5/54

Out: 0.011+/-0.000 χ^2/NDF :1448404.4/58

All: 0.011+/-0.000 χ^2/NDF : 3021326.3/113

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.302 ± 0.000 $\chi^2/\text{NDF}: 14458347809.6/31$

Left Out: -0.567 ± 0.000 $\chi^2/\text{NDF}: 13368458519.3/24$

Right Out: -0.305 ± 0.000 $\chi^2/\text{NDF}: 14327710948.8/33$

Left In: -0.568 ± 0.000 $\chi^2/\text{NDF}: 10458990019.9/22$

Left: -0.567 ± 0.000 $\chi^2/\text{NDF}: 23829000396.4/47$

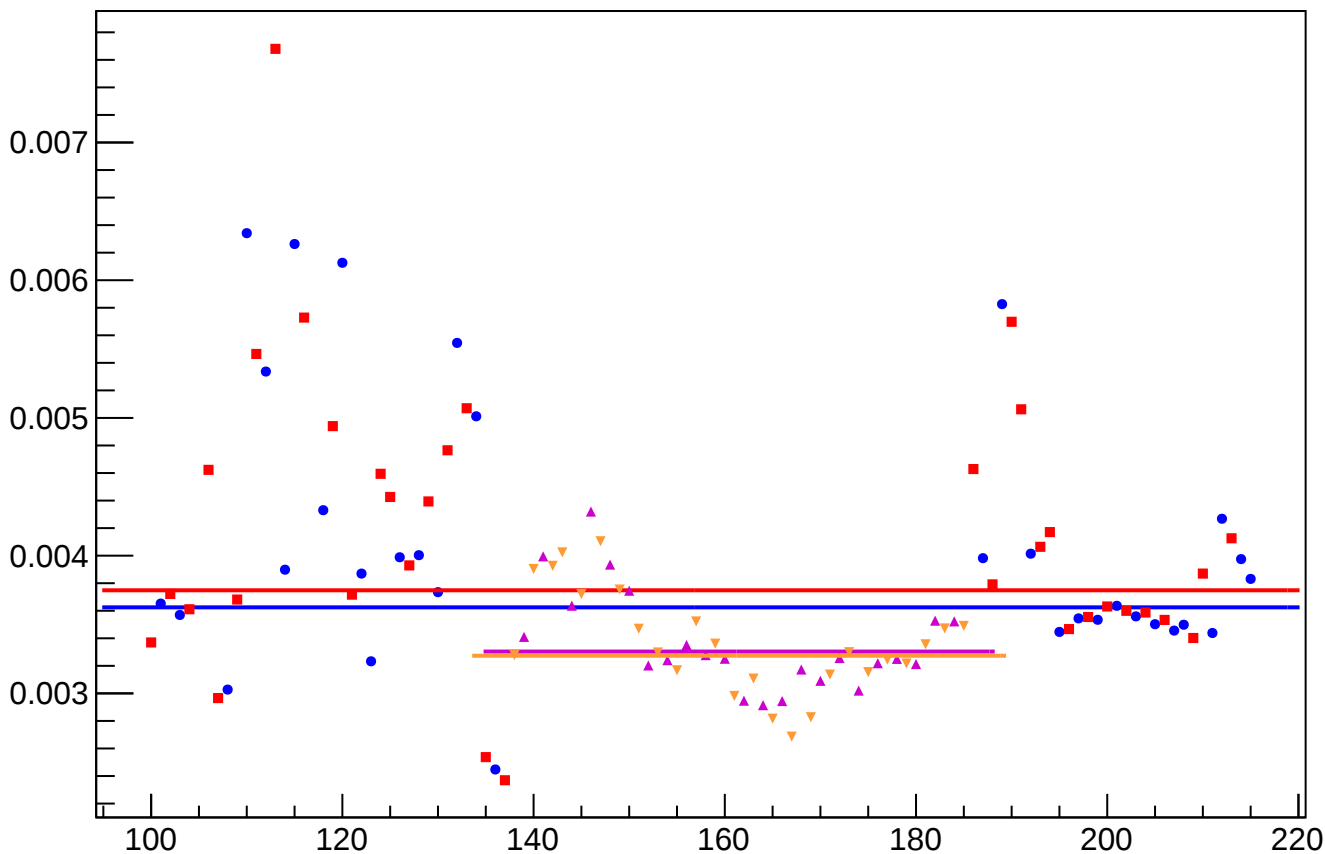
Right: -0.304 ± 0.000 $\chi^2/\text{NDF}: 28793681661.6/65$

In: -0.449 ± 0.000 $\chi^2/\text{NDF}: 71643497212.4/54$

Out: -0.460 ± 0.000 $\chi^2/\text{NDF}: 72248201705.8/58$

All: -0.455 ± 0.000 $\chi^2/\text{NDF}: 144047874245.4$

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1052063.4/31

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1099126.3/33

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

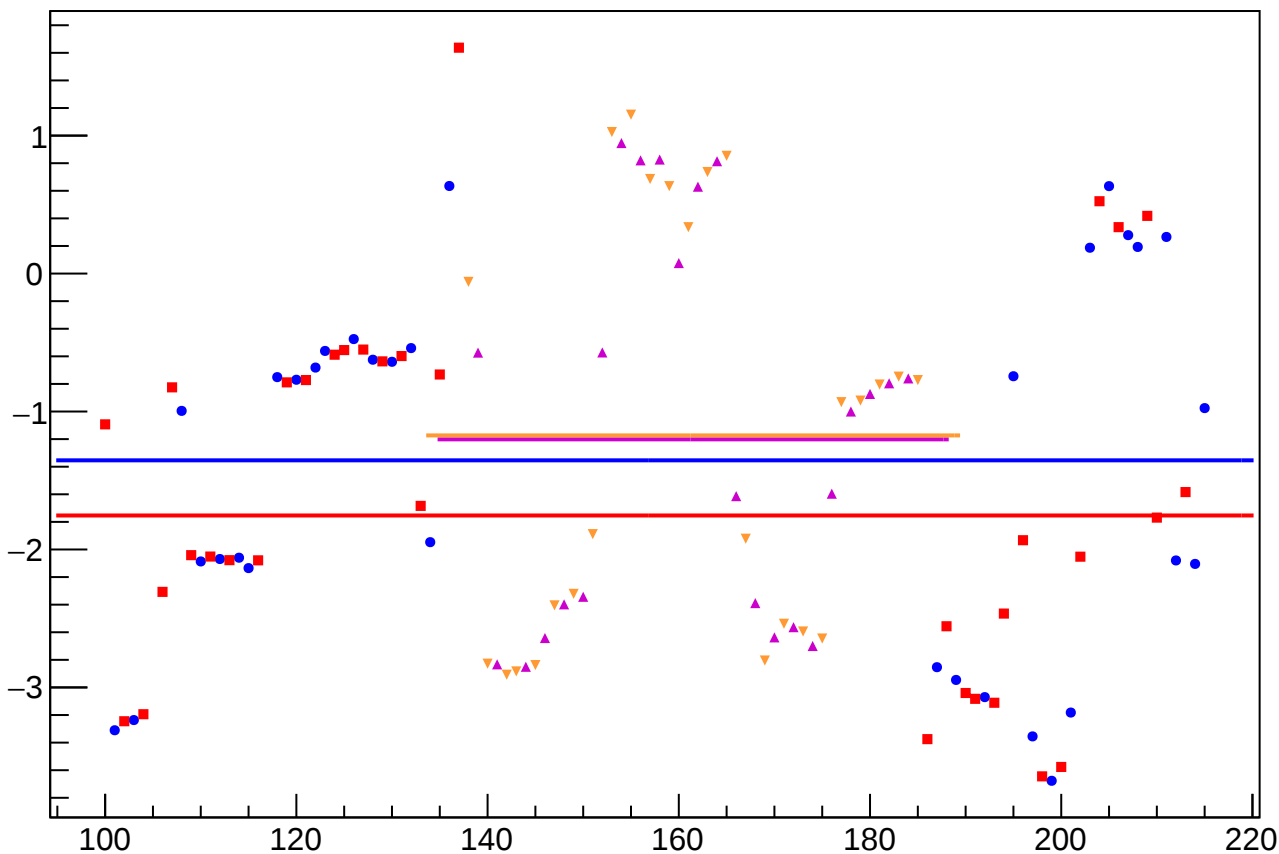
Right: 0.004+/-0.000 χ^2/NDF : 2168782.3/65

In: 0.003+/-0.000 χ^2/NDF : 1474002.1/54

Out: 0.003+/-0.000 χ^2/NDF : 1789070.4/58

All: 0.003+/-0.000 χ^2/NDF : 3264192.7/113

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.354 ± 0.000 $\chi^2/\text{NDF}: 6237618386.9/31$

Left Out: -1.173 ± 0.000 $\chi^2/\text{NDF}: 6882684653.2/24$

Right Out: -1.754 ± 0.000 $\chi^2/\text{NDF}: 5219550970.3/33$

Left In: -1.202 ± 0.000 $\chi^2/\text{NDF}: 5606782515.9/22$

Left: -1.187 ± 0.000 $\chi^2/\text{NDF}: 12490828303.3/47$

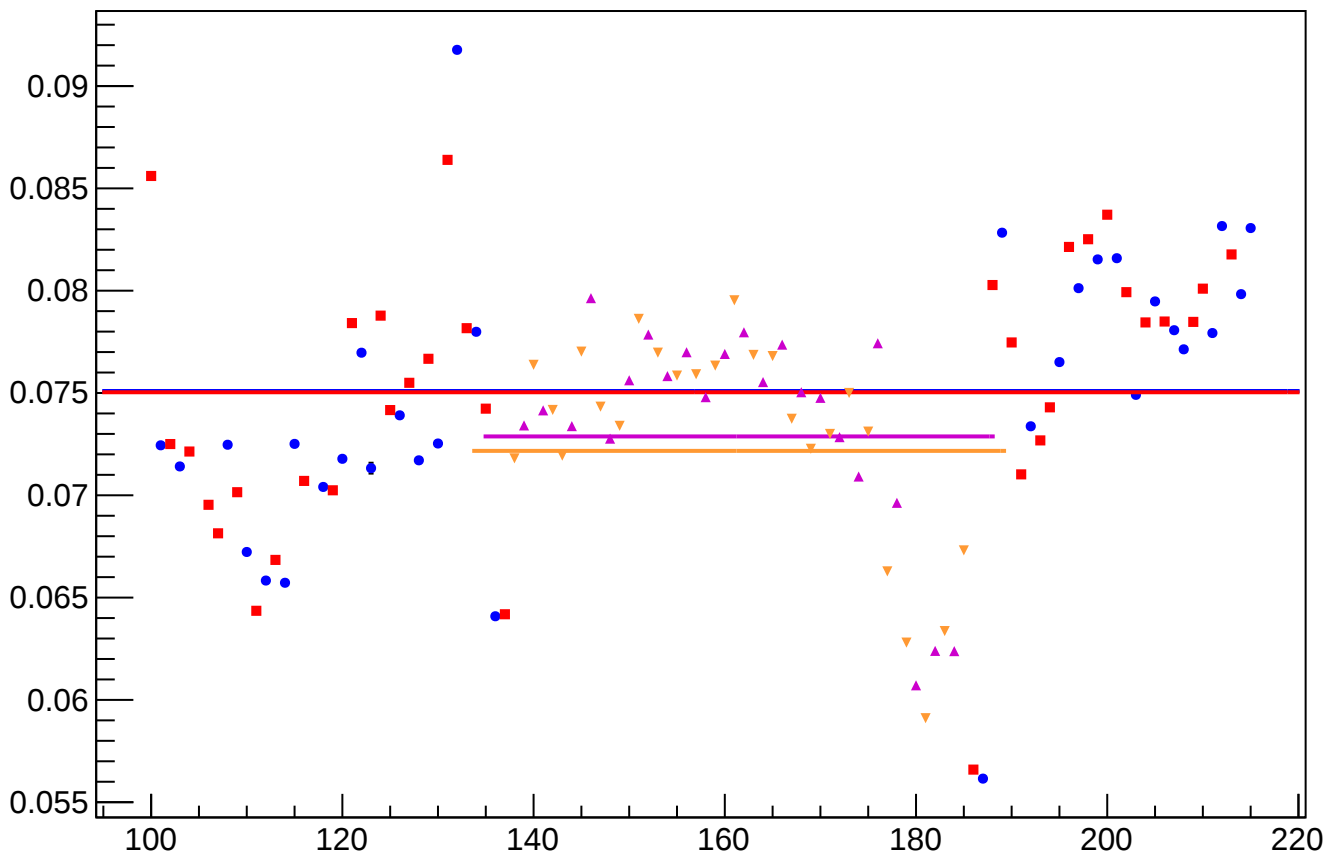
Right: -1.553 ± 0.000 $\chi^2/\text{NDF}: 11698354598.9/65$

In: -1.276 ± 0.000 $\chi^2/\text{NDF}: 11880317586.8/54$

Out: -1.443 ± 0.000 $\chi^2/\text{NDF}: 12644985518.0/58$

All: -1.361 ± 0.000 $\chi^2/\text{NDF}: 24614400714.7/114$

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.075+/-0.000 χ^2/NDF : 230666.3/31

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.075+/-0.000 χ^2/NDF : 251904.3/33

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

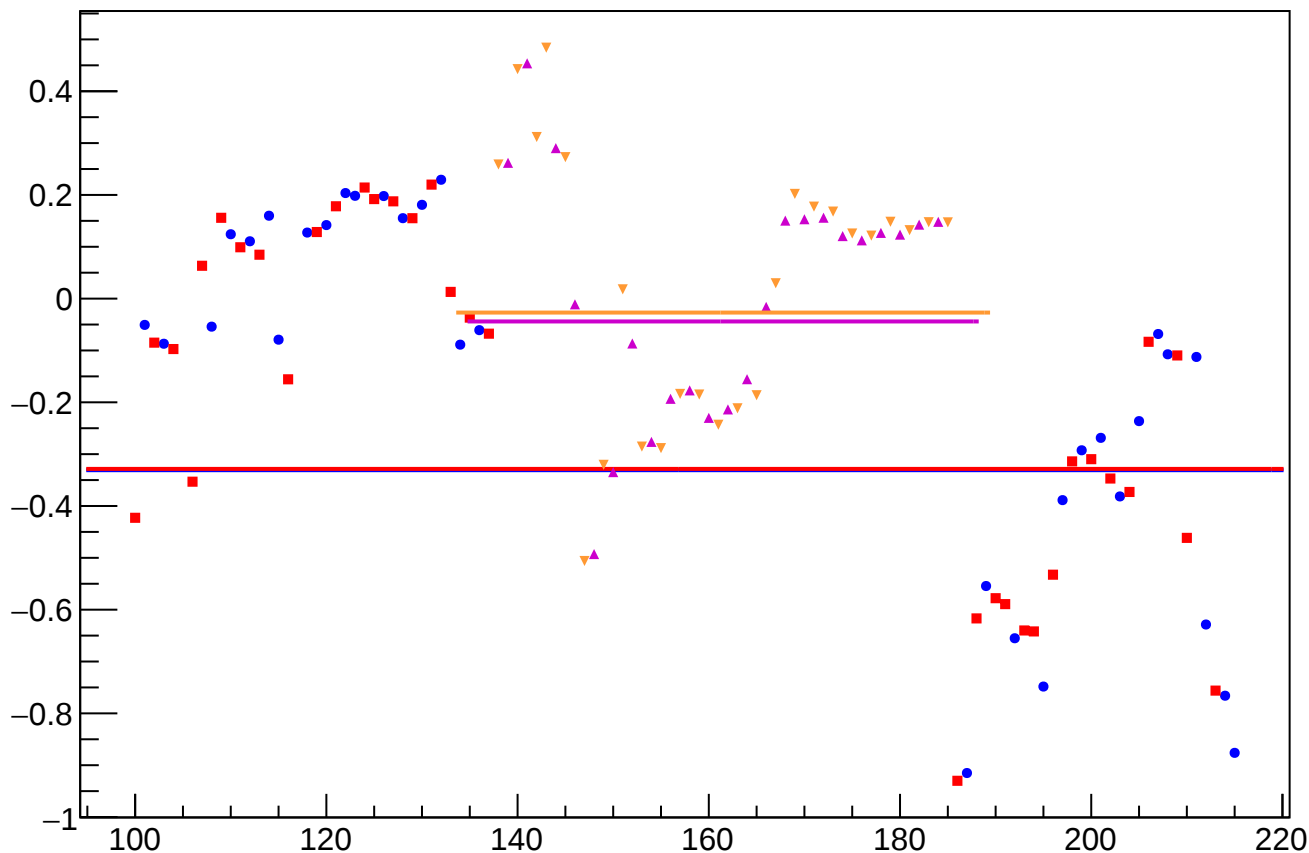
Right: 0.075+/-0.000 χ^2/NDF : 482581.7/65

In: 0.074+/-0.000 χ^2/NDF :429469.2/54

Out: 0.074+/-0.000 χ^2/NDF :500622.8/58

All: 0.074+/-0.000 χ^2/NDF : 931387.7/113

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.331+/-0.000 χ^2/NDF : 22640760348.5/31

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.328+/-0.000 χ^2/NDF : 15502810422.9/33

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

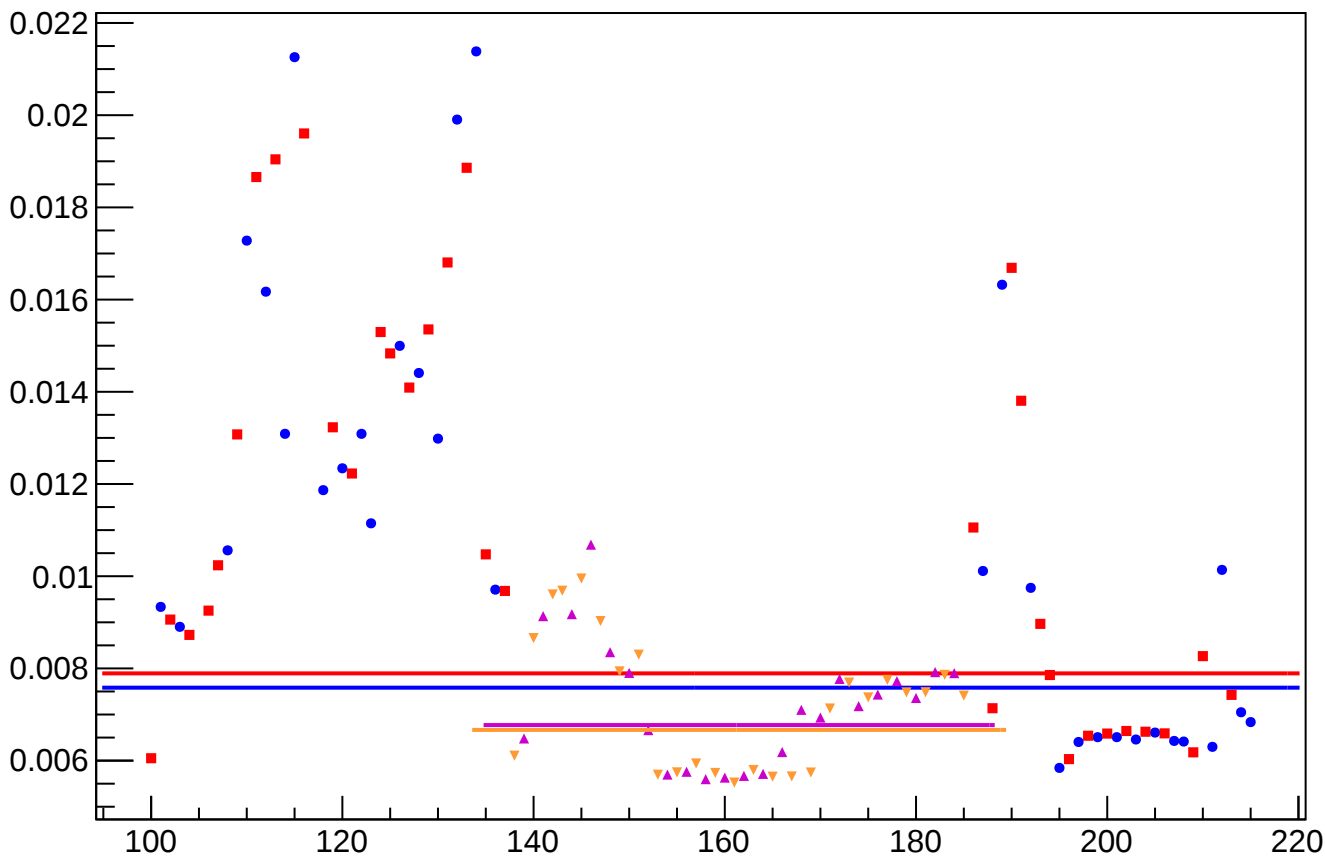
Right: -0.330+/-0.000 χ^2/NDF : 38144324374.3/65

In: -0.167+/-0.000 χ^2/NDF : 50550564936.1/54

Out: -0.141+/-0.000 χ^2/NDF : 48911530646.2/58

All: -0.154+/-0.000 χ^2/NDF : 99666435423.4/113

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2963149.6/31

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3079831.8/33

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

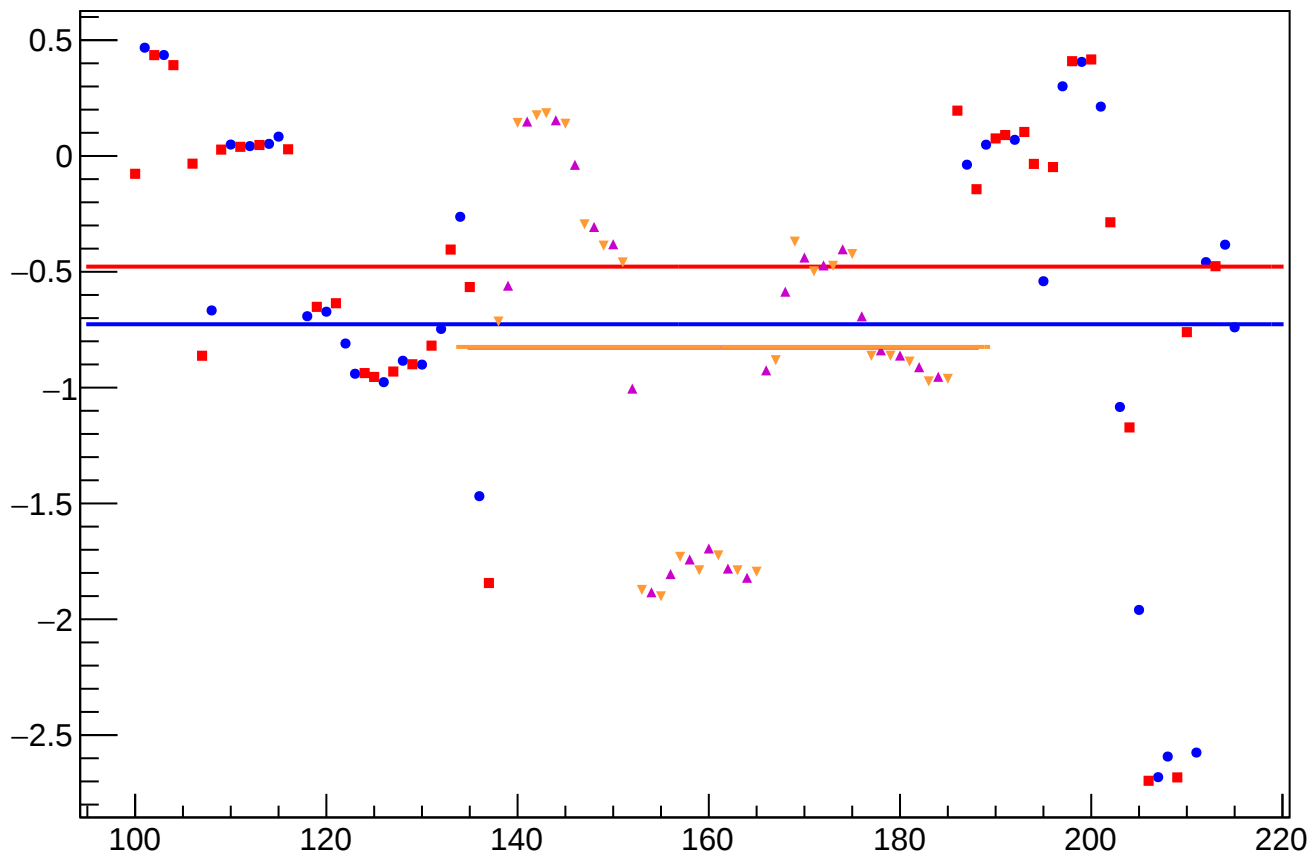
Right: 0.008+/-0.000 χ^2/NDF : 6066479.2/65

In: 0.007+/-0.000 χ^2/NDF :4091917.8/54

Out: 0.007+/-0.000 χ^2/NDF :4654656.9/58

All: 0.007+/-0.000 χ^2/NDF : 8746654.8/113

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.726+/-0.000 χ^2/NDF : 1766746051.3/31

Left Out: -0.824+/-0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.478+/-0.000 χ^2/NDF : 1474547095.8/33

Left In: -0.827+/-0.000 χ^2/NDF : 921651117.3/22

Left: -0.826+/-0.000 χ^2/NDF : 2025270716.0/47

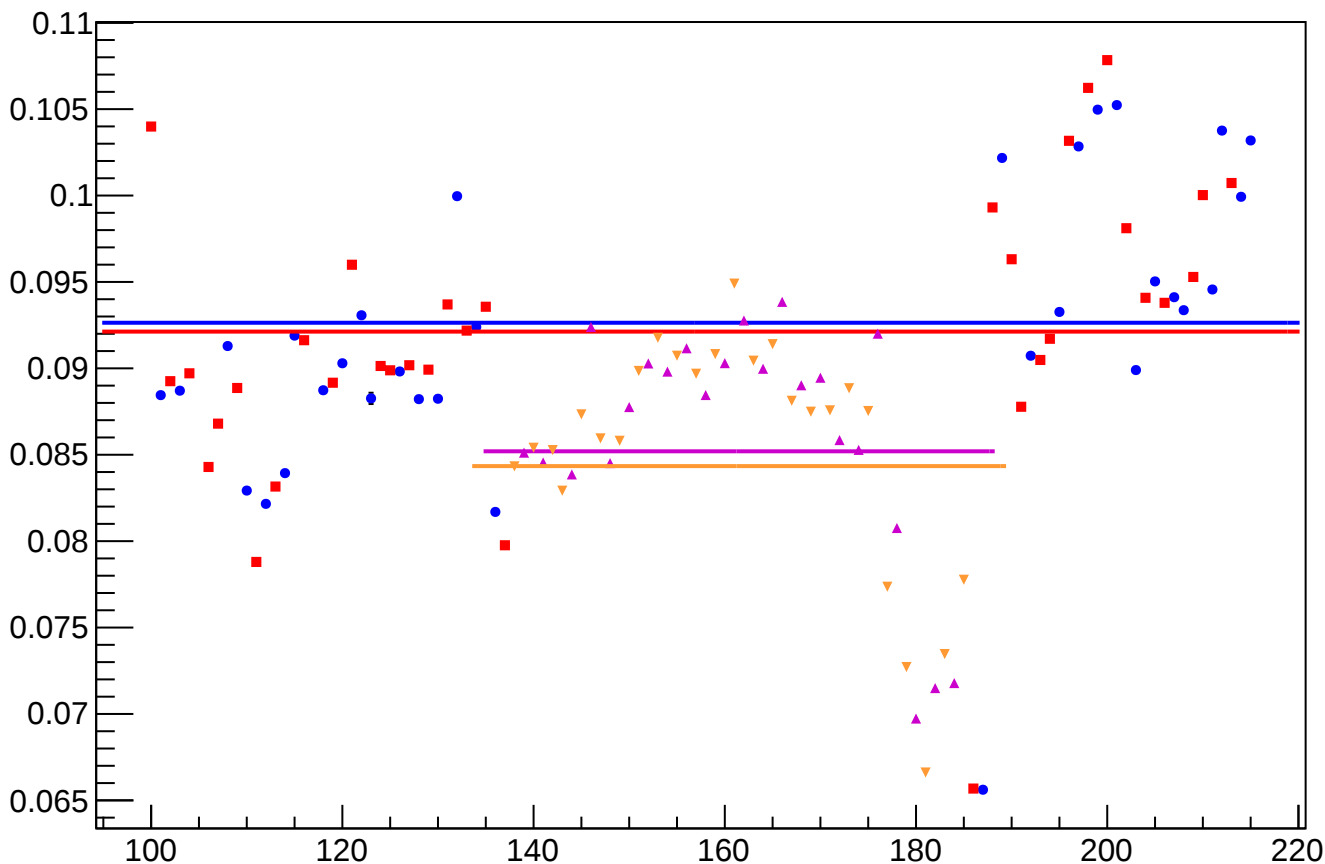
Right: -0.602+/-0.000 χ^2/NDF : 3303540001.4/65

In: -0.781+/-0.000 χ^2/NDF : 2699354508.8/54

Out: -0.671+/-0.000 χ^2/NDF : 2713554817.5/58

All: -0.725+/-0.000 χ^2/NDF : 5439616600.7/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2/NDF : 236974.4/31

Left Out: 0.084 $\pm$ 0.000 χ^2/NDF :288312.6/24

Right Out: 0.092 $\pm$ 0.000 χ^2/NDF : 304878.8/33

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

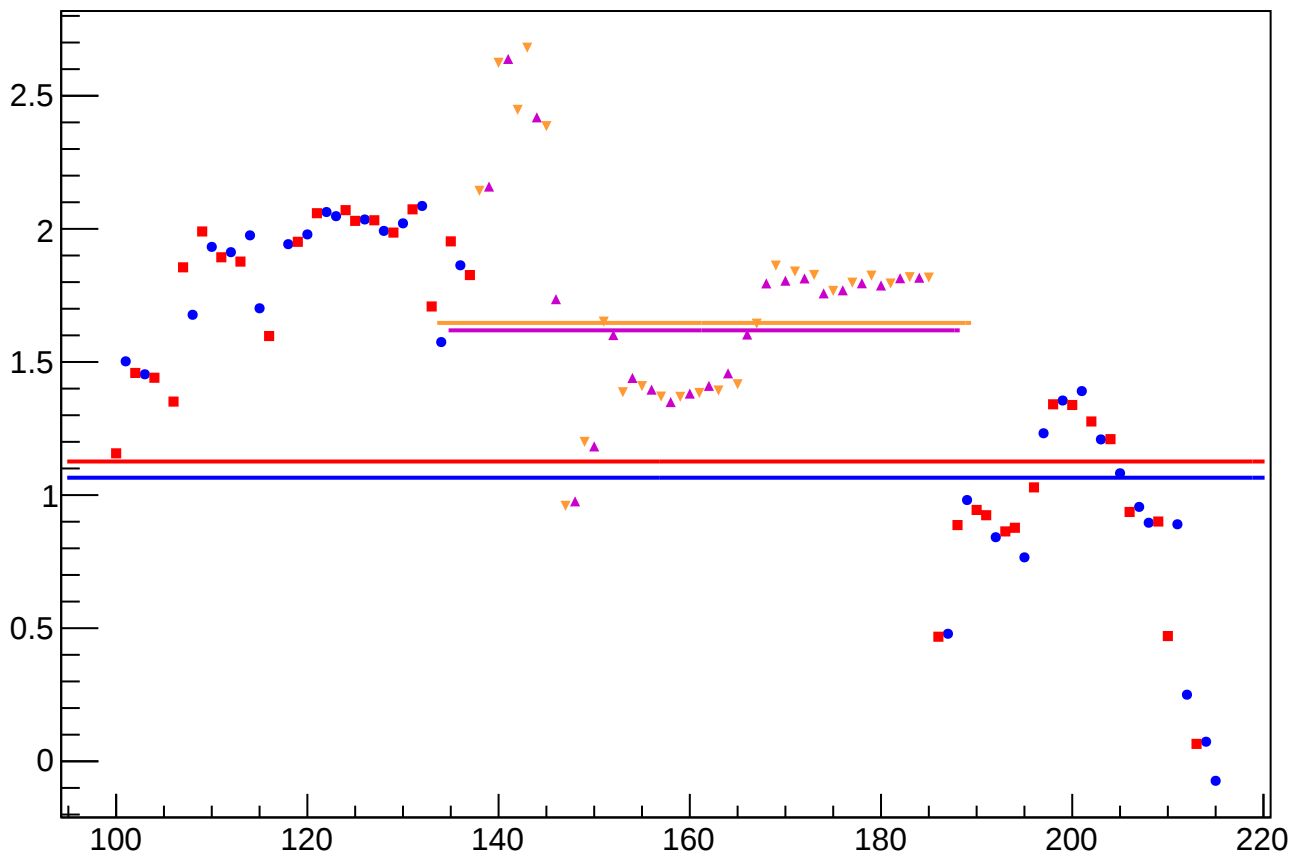
Right: 0.092 $\pm$ 0.000 χ^2/NDF : 542381.3/65

In: 0.089 $\pm$ 0.000 χ^2/NDF :595269.7/54

Out: 0.088 $\pm$ 0.000 χ^2/NDF :729715.4/58

All: 0.088 $\pm$ 0.000 χ^2/NDF : 1328160.8/113

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.065+/-0.000 χ^2/NDF : 36870893883.6/31

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.126+/-0.000 χ^2/NDF : 24135203484.0/33

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

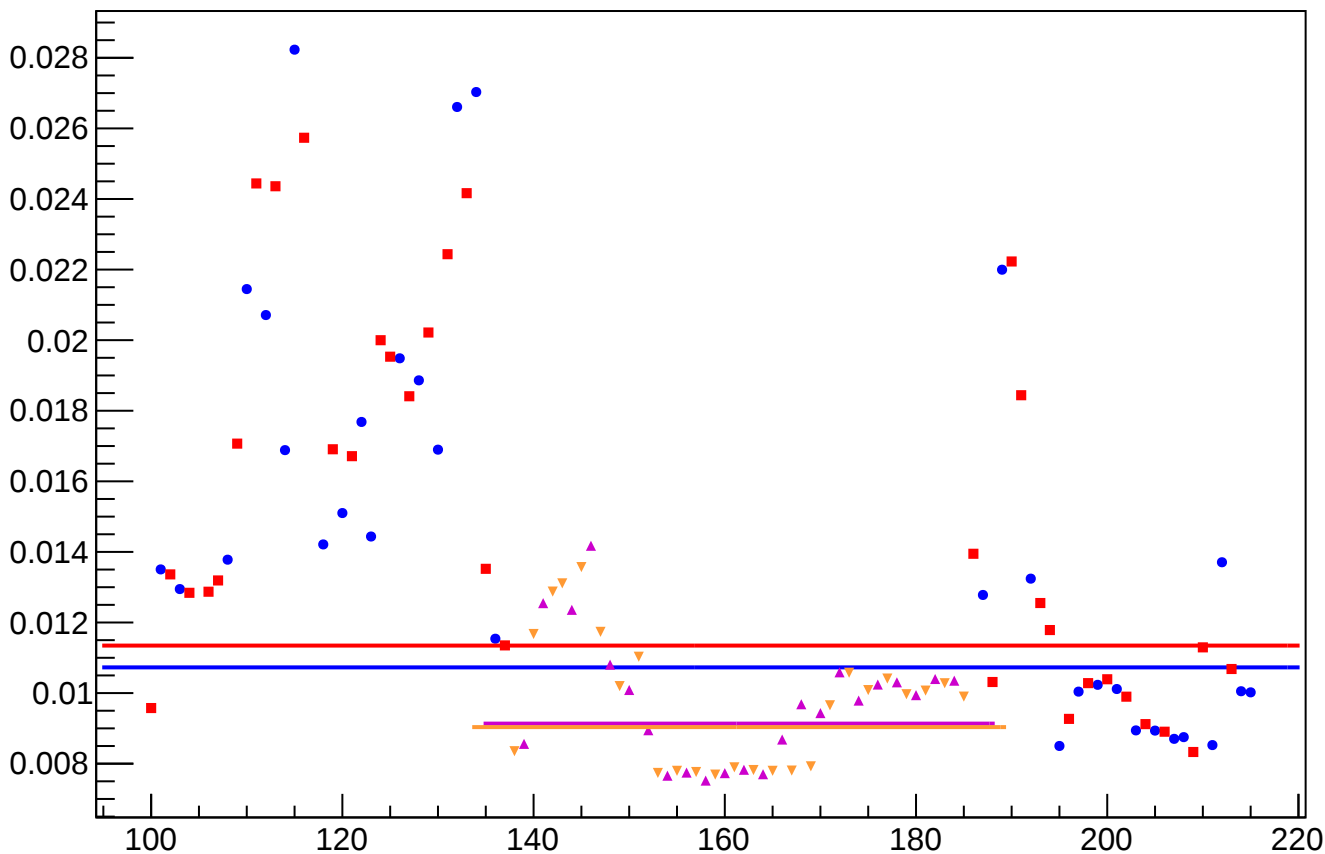
Right: 1.094+/-0.000 χ^2/NDF : 61233220821.7/65

In: 1.393+/-0.000 χ^2/NDF : 81420873805.1/54

Out: 1.462+/-0.000 χ^2/NDF : 70668204405.3/58

All: 1.428+/-0.000 χ^2/NDF : 152862562326.0

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2427009.9/31

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2529999.9/33

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

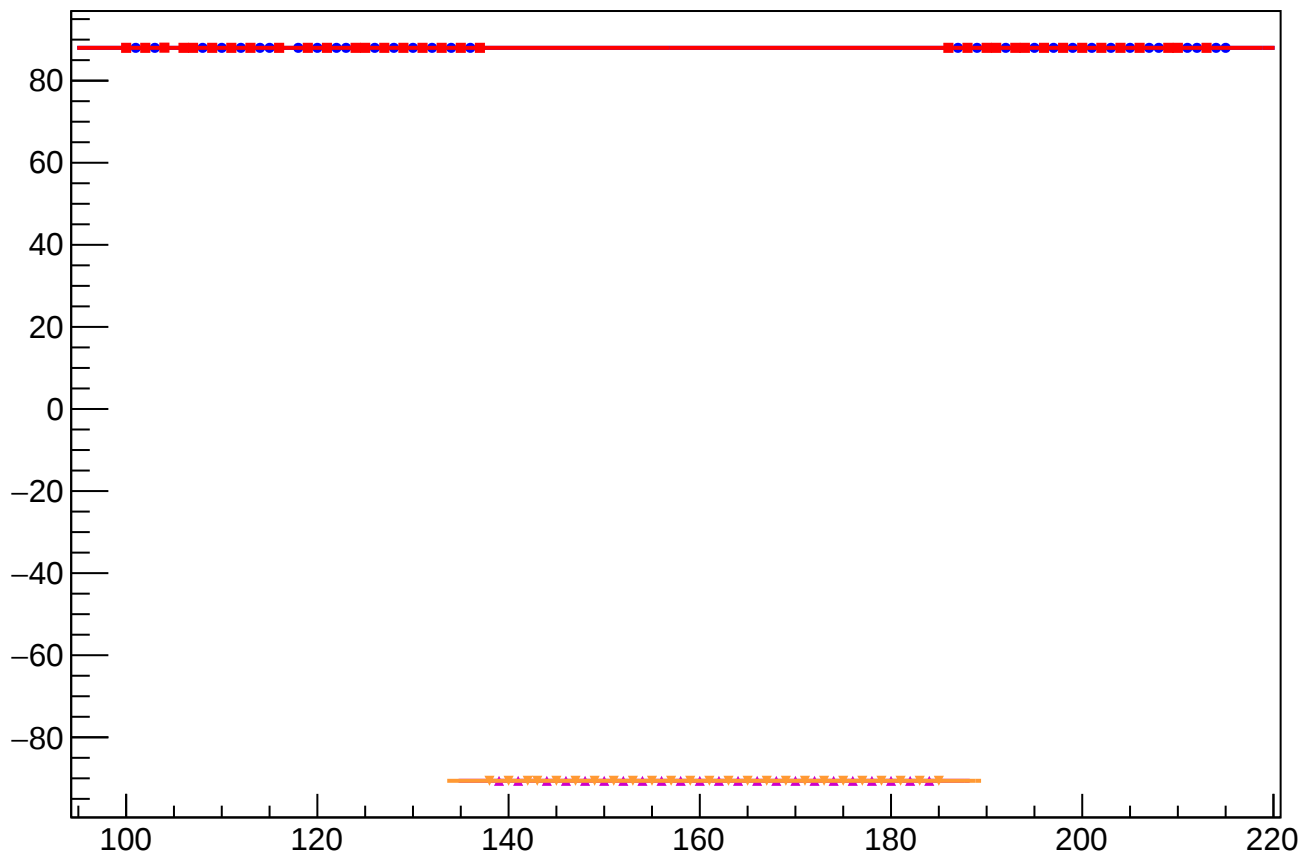
Right: 0.011+/-0.000 χ^2/NDF : 5003728.0/65

In: 0.010+/-0.000 χ^2/NDF :3702001.3/54

Out: 0.010+/-0.000 χ^2/NDF :4360452.0/58

All: 0.010+/-0.000 χ^2/NDF : 8064026.8/113

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 4417015.2/31

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81039712137946389306203439104.0/33

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

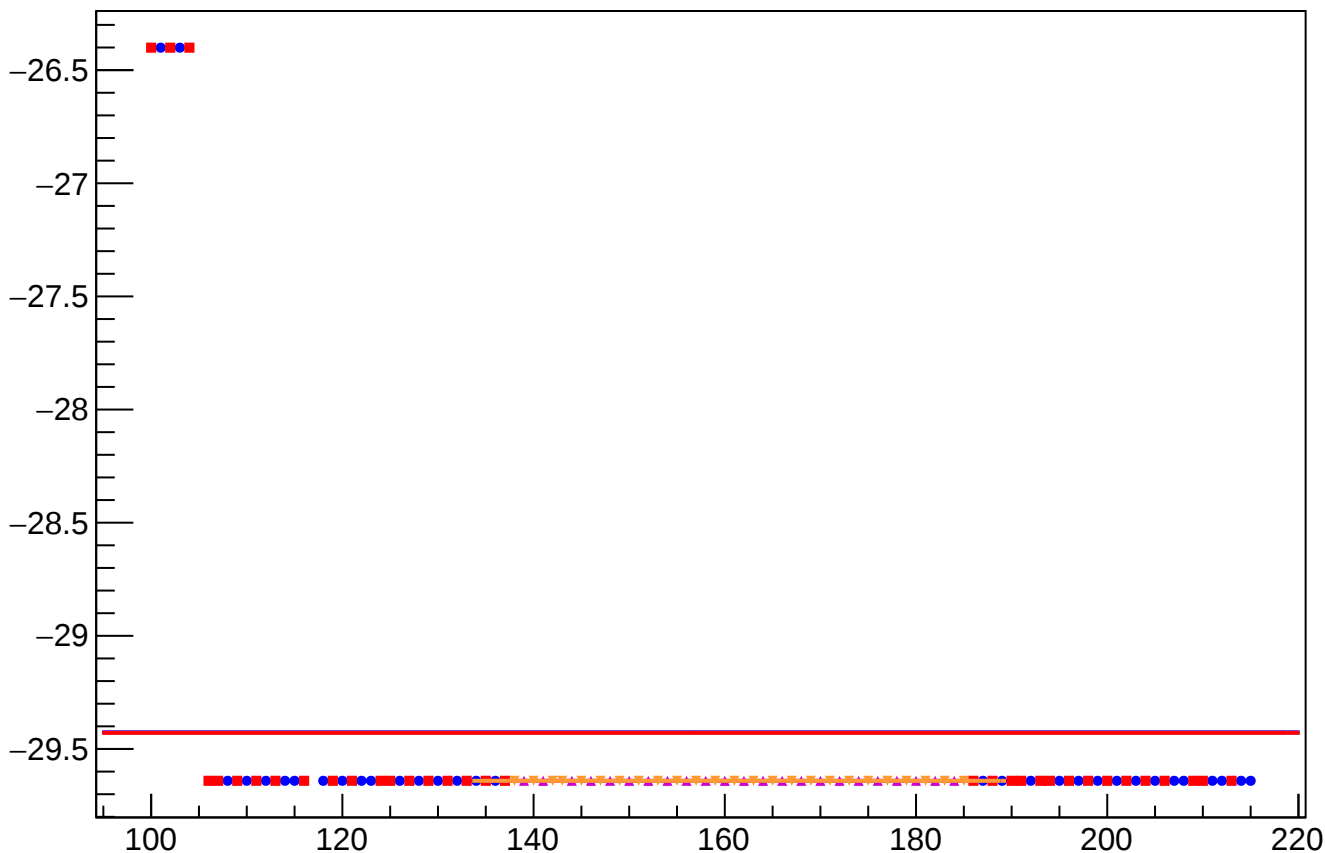
Right: 88.001+/-0.000 χ^2/NDF : 8224416105430751

In: -1.549+/-0.000 χ^2/NDF : 285644005532551347

Out: -4.504+/-0.000 χ^2/NDF : 29292777945303802

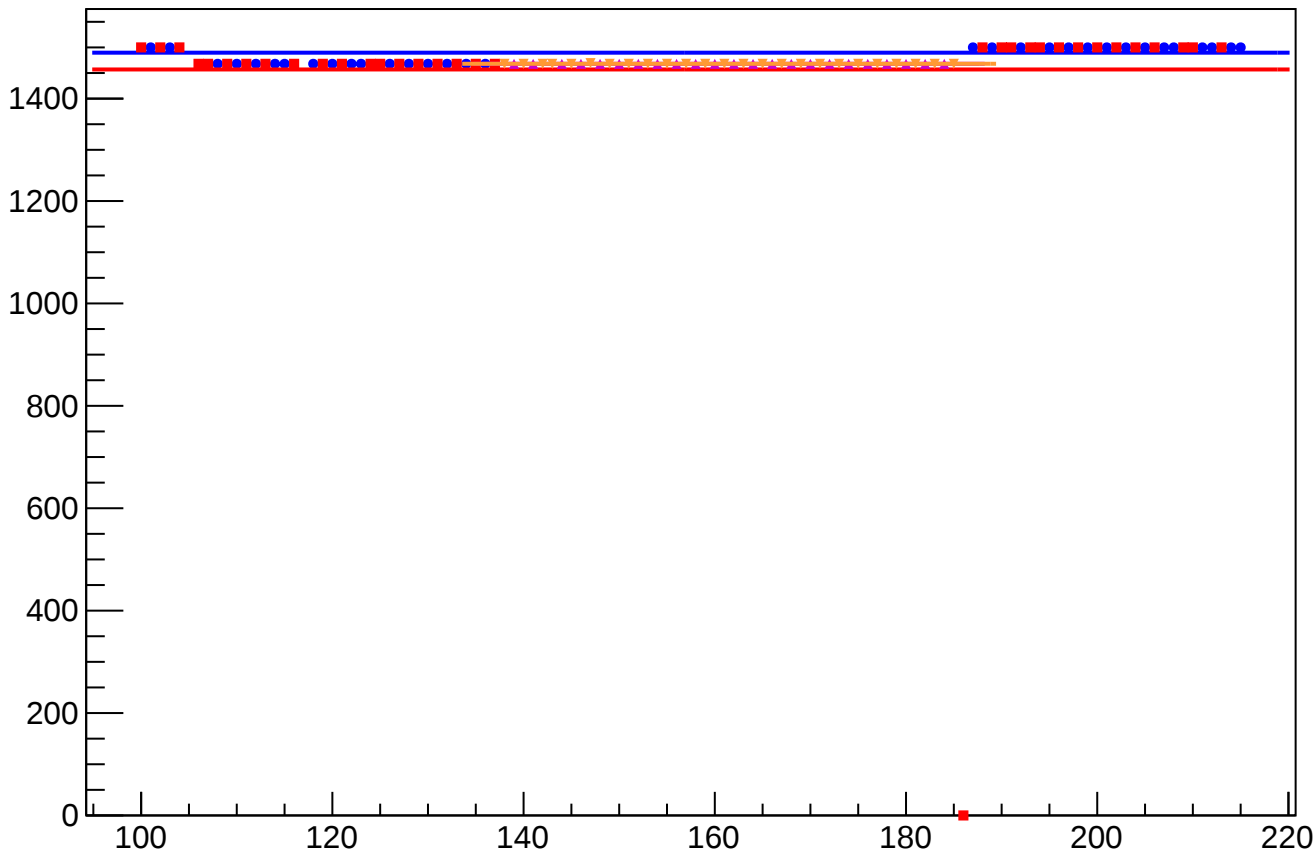
All: -3.046+/-0.000 χ^2/NDF : 5787302468558

epics_HWienAngles_mean vs Slug, Sign Corrected



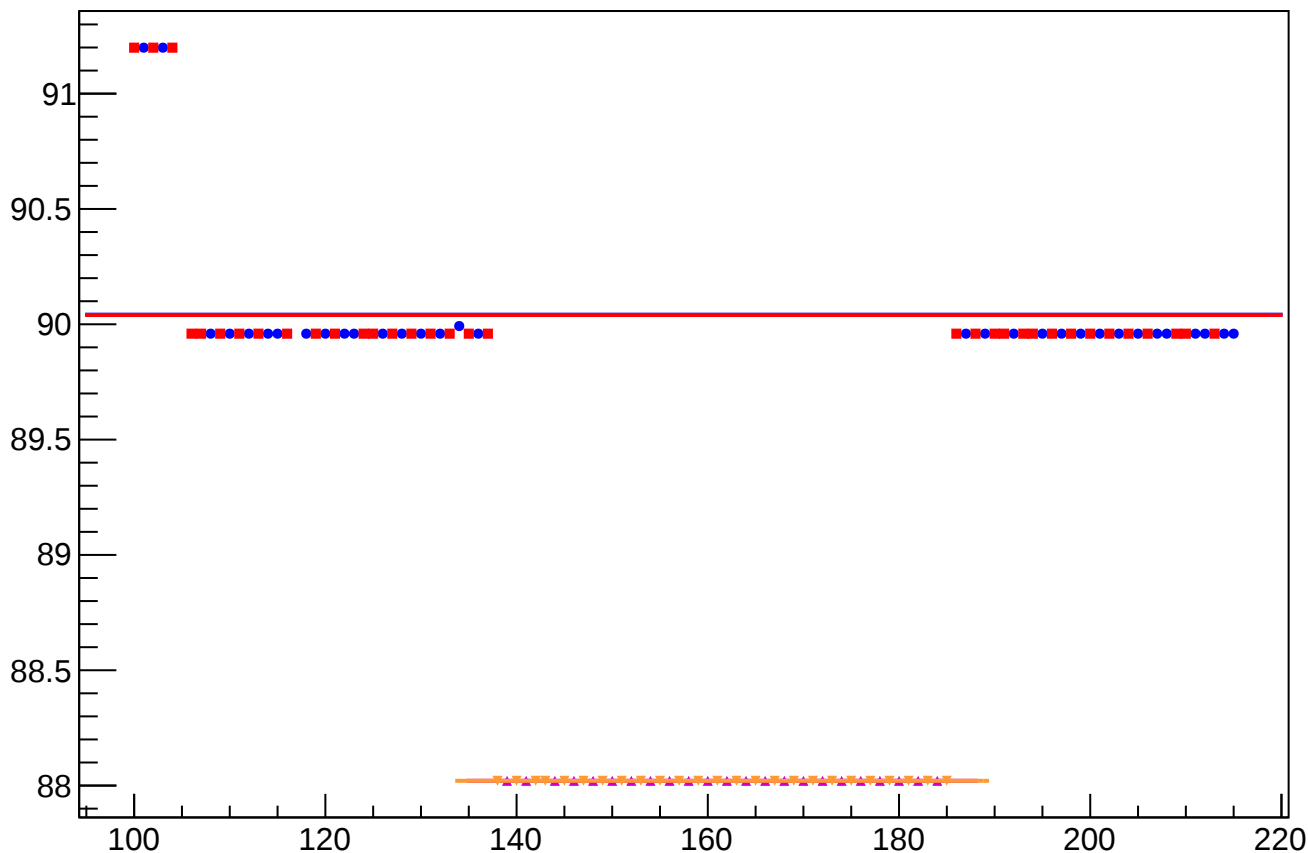
Right In: -29.427+/-0.000 χ^2/NDF : 1156875488465837222566731962122240.0/31
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.429+/-0.000 χ^2/NDF : 1138051151269020880481693009444864.0/33
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.534+/-0.000 χ^2/NDF : 11979103839195814
 Out: -29.539+/-0.000 χ^2/NDF : 1179316024796057
 All: -29.536+/-0.000 χ^2/NDF : 237726393917

epics_psub_pl_pos_mean vs Slug, Sign Corrected



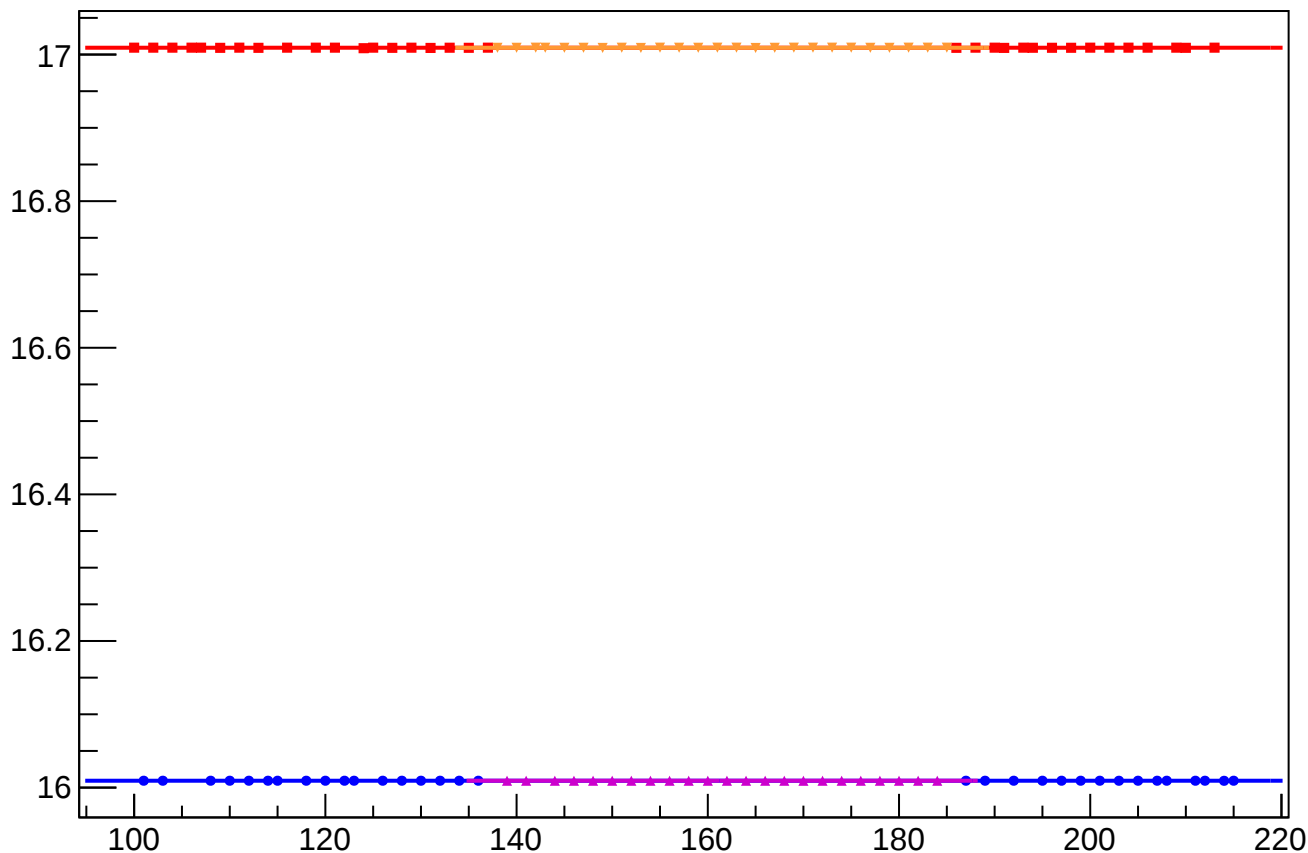
Right In: 1489.728+/-0.000 χ^2/NDF : 399049221026877405853629807985688576.0/31
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1456.943+/-0.000 χ^2/NDF : 82831314757245295880748752022951428096.0/33
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1470.656+/-0.000 χ^2/NDF : 84239181852

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.042 ± 0.000 $\chi^2/\text{NDF}: 169358323208848618303207654817792.0/31$
 Left Out: 88.021 ± 0.000 $\chi^2/\text{NDF}: 5679798.5/24$
 Right Out: 90.040 ± 0.000 $\chi^2/\text{NDF}: 166692143936874971510791865368576.0/33$
 Left In: 88.021 ± 0.000 $\chi^2/\text{NDF}: 6257169.0/22$
 In: 89.028 ± 0.000 $\chi^2/\text{NDF}: 382661531845199824.0/31$
 Out: 88.994 ± 0.000 $\chi^2/\text{NDF}: 39127552478755231.0/31$
 All: 89.011 ± 0.000 $\chi^2/\text{NDF}: 7741470237021.0/31$

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000

χ^2/NDF : 845024157249485972439040.0/31

Left Out: 17.009+/-0.000

χ^2/NDF : 26194929080144976634970112.0/24

Right Out: 17.009+/-0.000

χ^2/NDF : 20535813240298827063230464.0/33

Left In: 16.009+/-0.000

χ^2/NDF : 127920993667935400624128.0/22

Left: 16.524+/-0.000

χ^2/NDF : 85855870772921272

Right: 16.502+/-0.000

χ^2/NDF : 8647176029405184

In: 16.009+/-0.000

χ^2/NDF : 989214338588838470

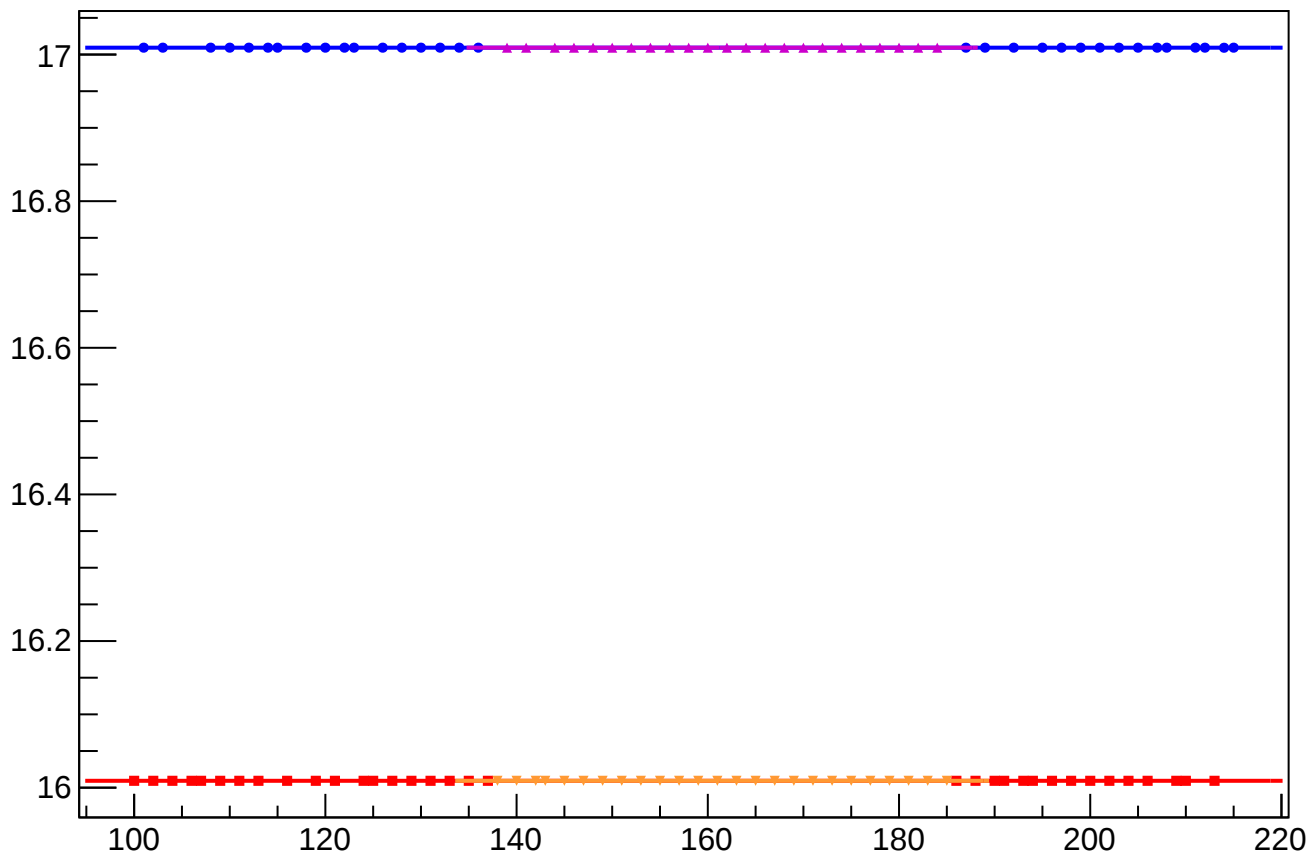
Out: 17.009+/-0.000

χ^2/NDF : 47868654961621131

All: 16.513+/-0.000

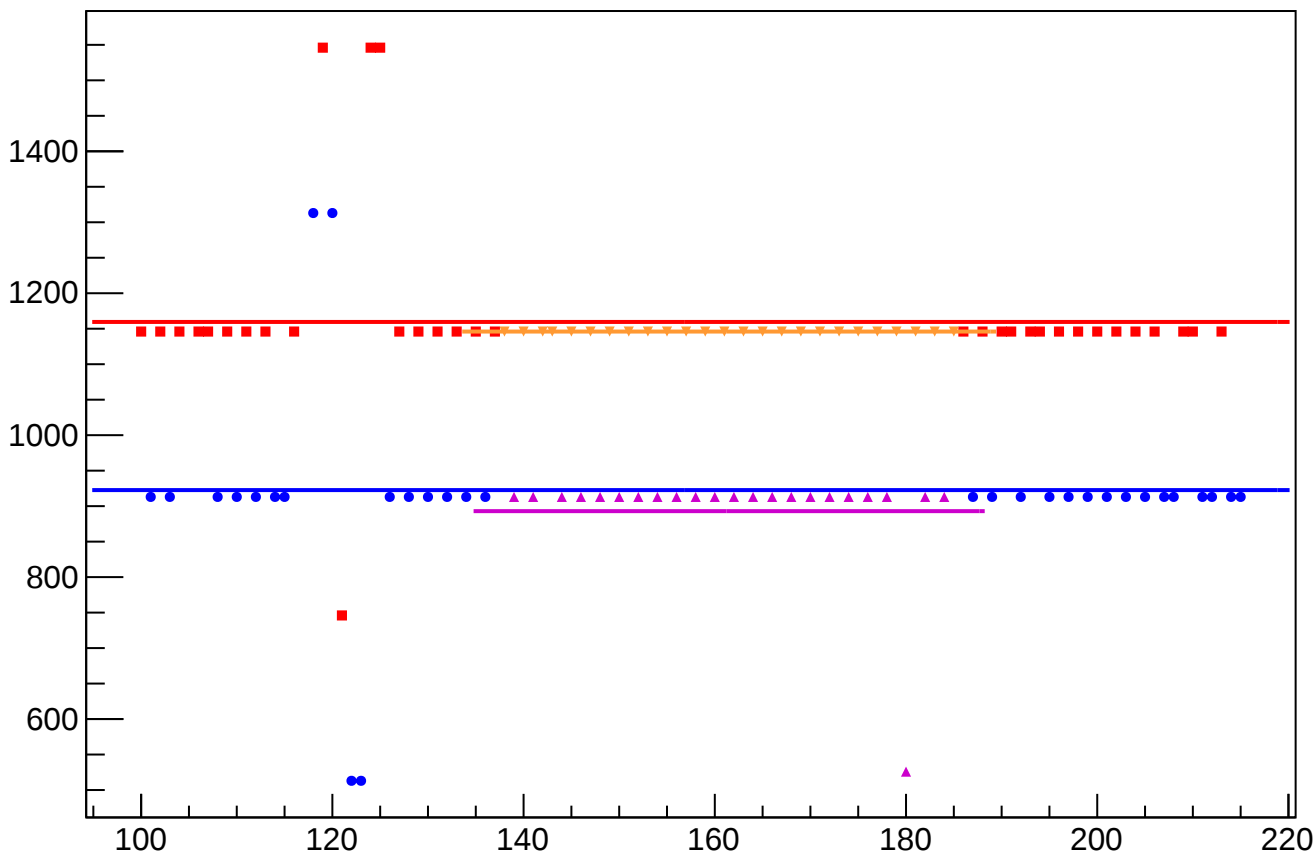
χ^2/NDF : 1724092297155

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000	χ^2/NDF : 845024157385466381860864.0/31	Left: 16.491+/-0.000	χ^2/NDF : 90683349233974458
Left Out: 16.009+/-0.000	χ^2/NDF : 61253.5/24	Right: 16.508+/-0.000	χ^2/NDF : 8799787988195425
Right Out: 16.009+/-0.000	χ^2/NDF : 302644.9/33	In: 17.009+/-0.000	χ^2/NDF : 977370394933047945
Left In: 17.009+/-0.000	χ^2/NDF : 114986101427233622065152.0/22	Out: 16.009+/-0.000	χ^2/NDF : 563133.1/58
		All: 16.499+/-0.000	χ^2/NDF : 1787280821493

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 922.625+/-0.000 χ^2/NDF : 2111571560555938737099509780793262080.0/31

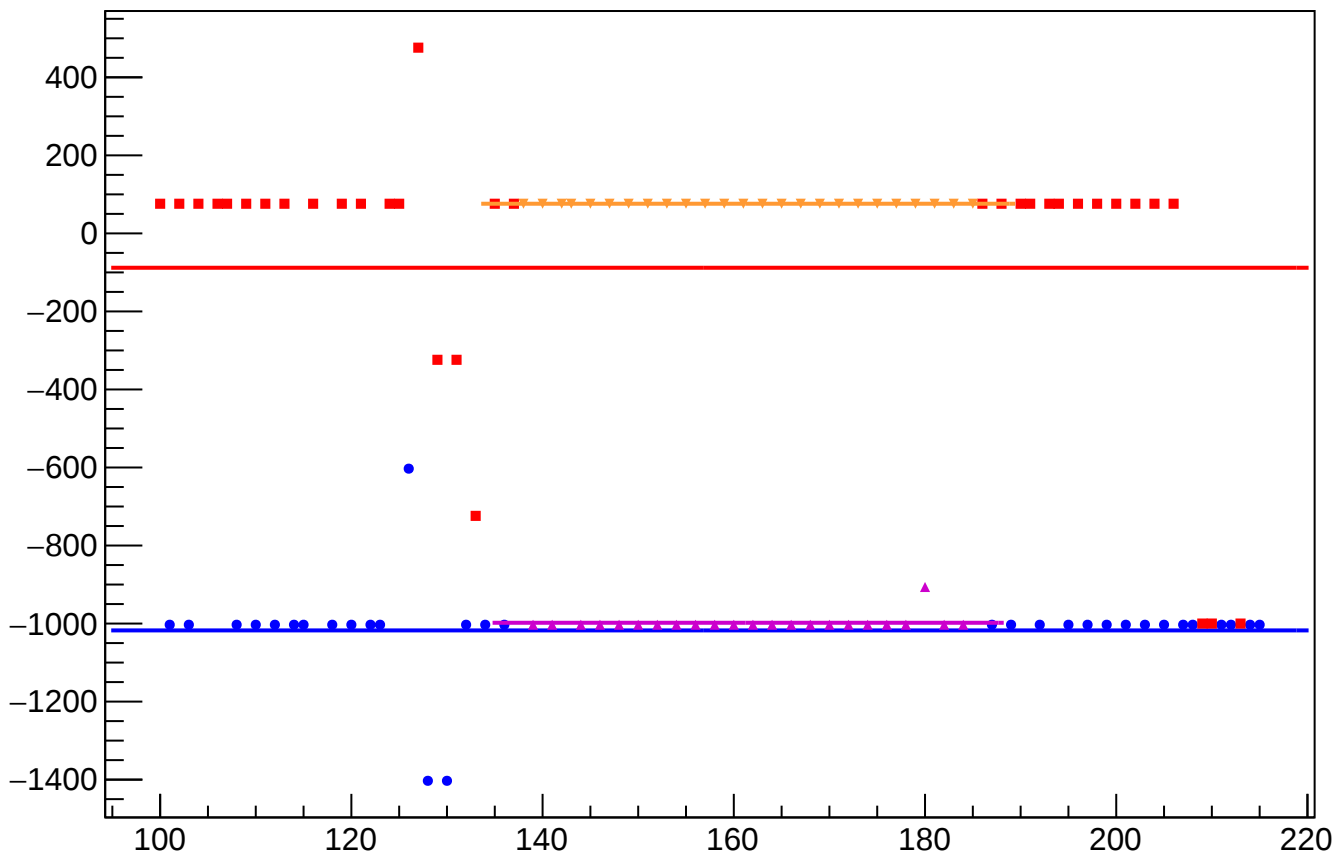
Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24

Right Out: 1159.546+/-0.000 χ^2/NDF : 21755852214984316784798186999210049536.0/33

Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22

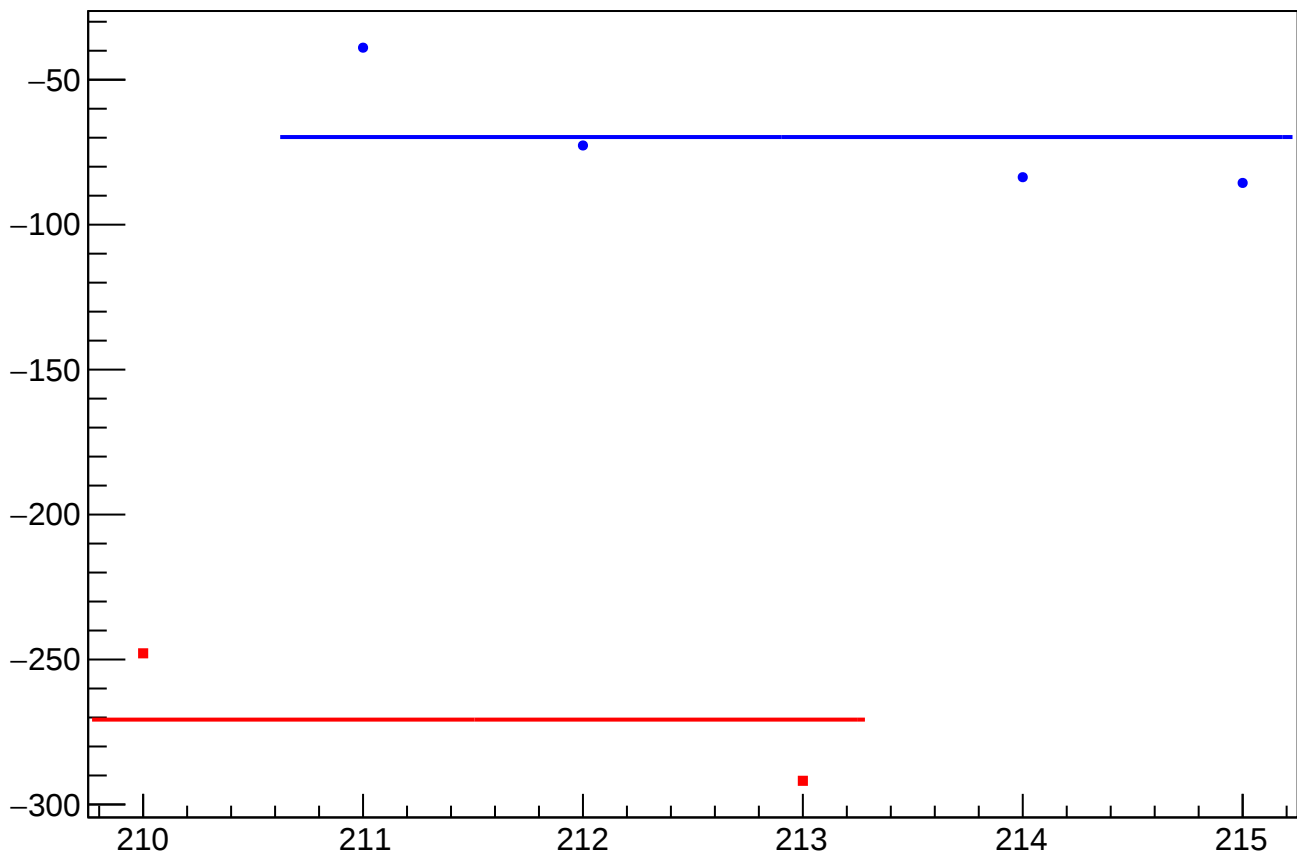
All: 1031.759+/-0.000 χ^2/NDF : 16578142673

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



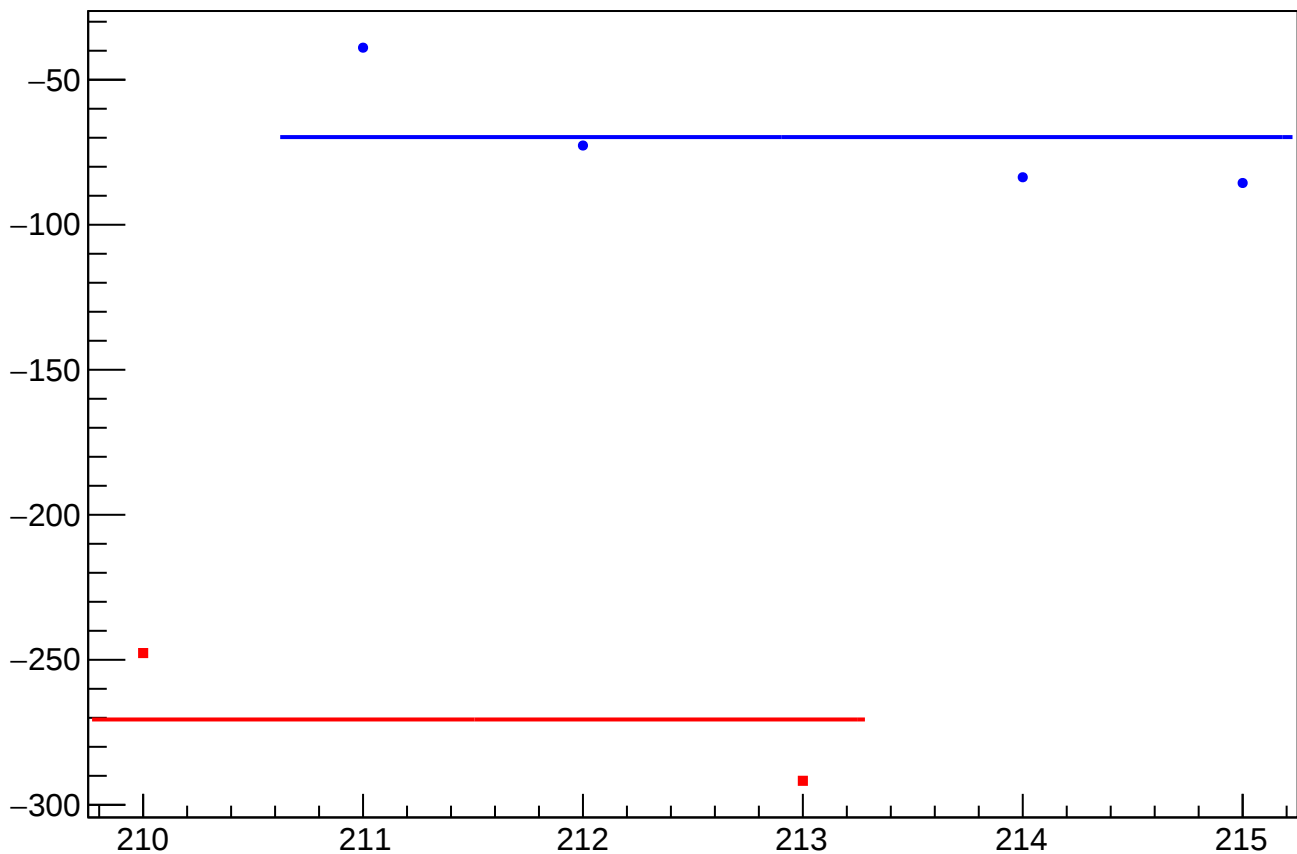
Right In: -1017.547+/-0.000 χ^2/NDF : 22821183713305920842493302895435317248.0/31
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -88.061+/-0.000 χ^2/NDF : 259809232483906796704877021850469662720.0/33
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -498.766+/-0.000 χ^2/NDF : 21401344814

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right In: -69.774+/-0.000 χ^2/NDF : 105864088683195568752421154630664192.0/3
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -270.729+/-0.000 χ^2/NDF : 72391751130083692399004283901575168.0/1
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -69.774+/-0.000 χ^2/NDF : 10586408868319556
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -137.209+/-0.000 χ^2/NDF : 42029800726183

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 Right In: -69.774+/-0.000 χ^2 /NDF: 105864088683195568752421154630664192.0/3
 Left Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 Right Out: -270.574+/-0.000 χ^2 /NDF: 72629179805941194116968620035670016.0/1
 Left In: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 In: -69.774+/-0.000 χ^2 /NDF: 10586408868319556
 Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0
 All: -137.157+/-0.000 χ^2 /NDF: 41970247925734