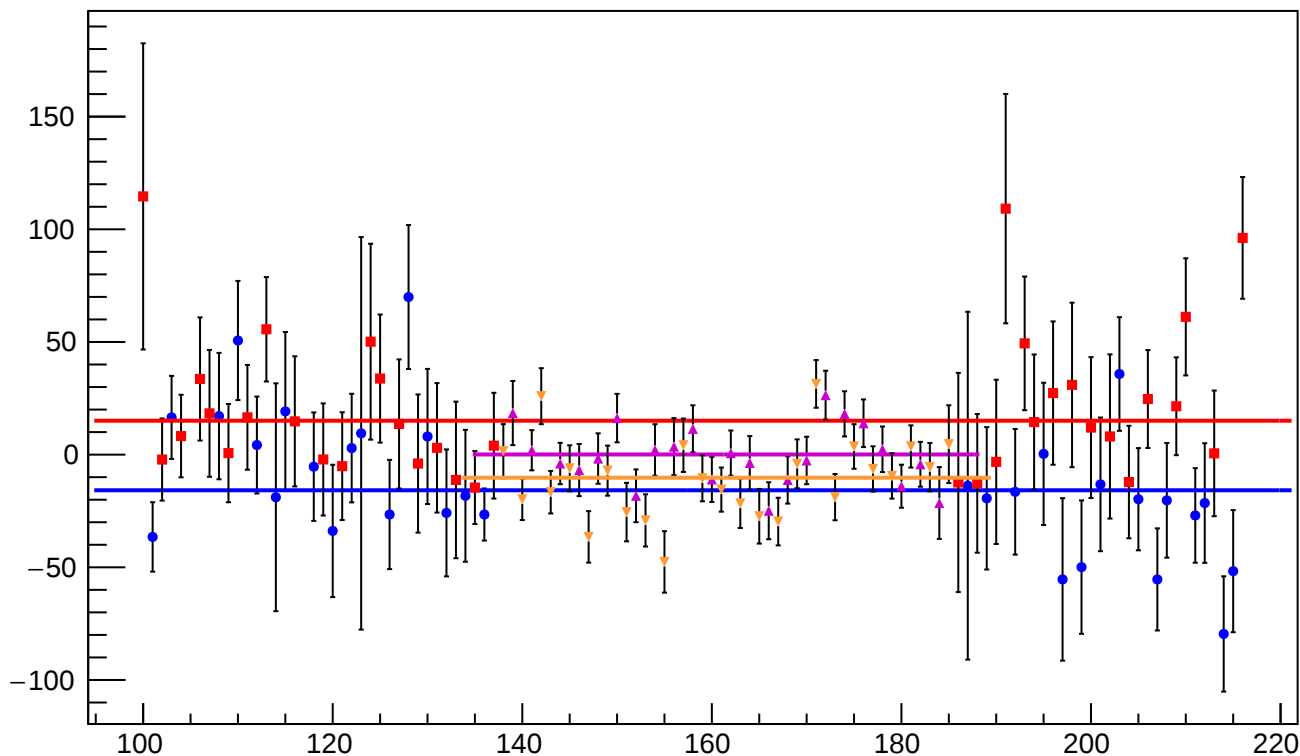


diff_bpm4aX_mean vs Slug, Sign Corrected



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: 15.057 ± 4.505

$\chi^2/\text{NDF}: 34.6/34$

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: -0.759 ± 3.146

$\chi^2/\text{NDF}: 101.8/66$

In: -3.222 ± 2.003

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

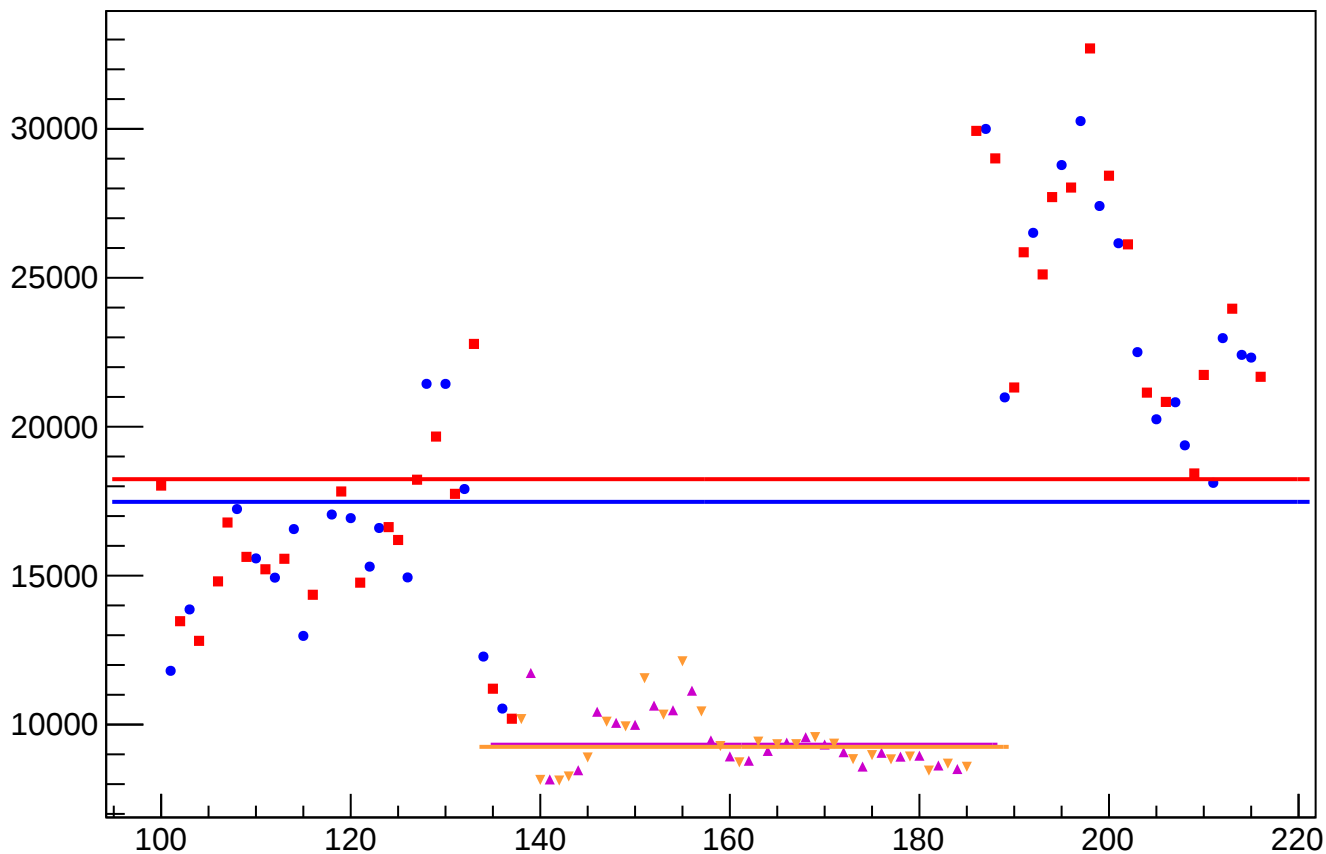
Out: -5.473 ± 1.955

$\chi^2/\text{NDF}: 118.3/59$

All: -4.375 ± 1.399

$\chi^2/\text{NDF}: 202.3/114$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17477.286 $\pm$ 3.108 χ^2 /NDF: 2892071.4/31

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

Right Out: 18238.740 $\pm$ 3.185 χ^2 /NDF: 2927832.3/34

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

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

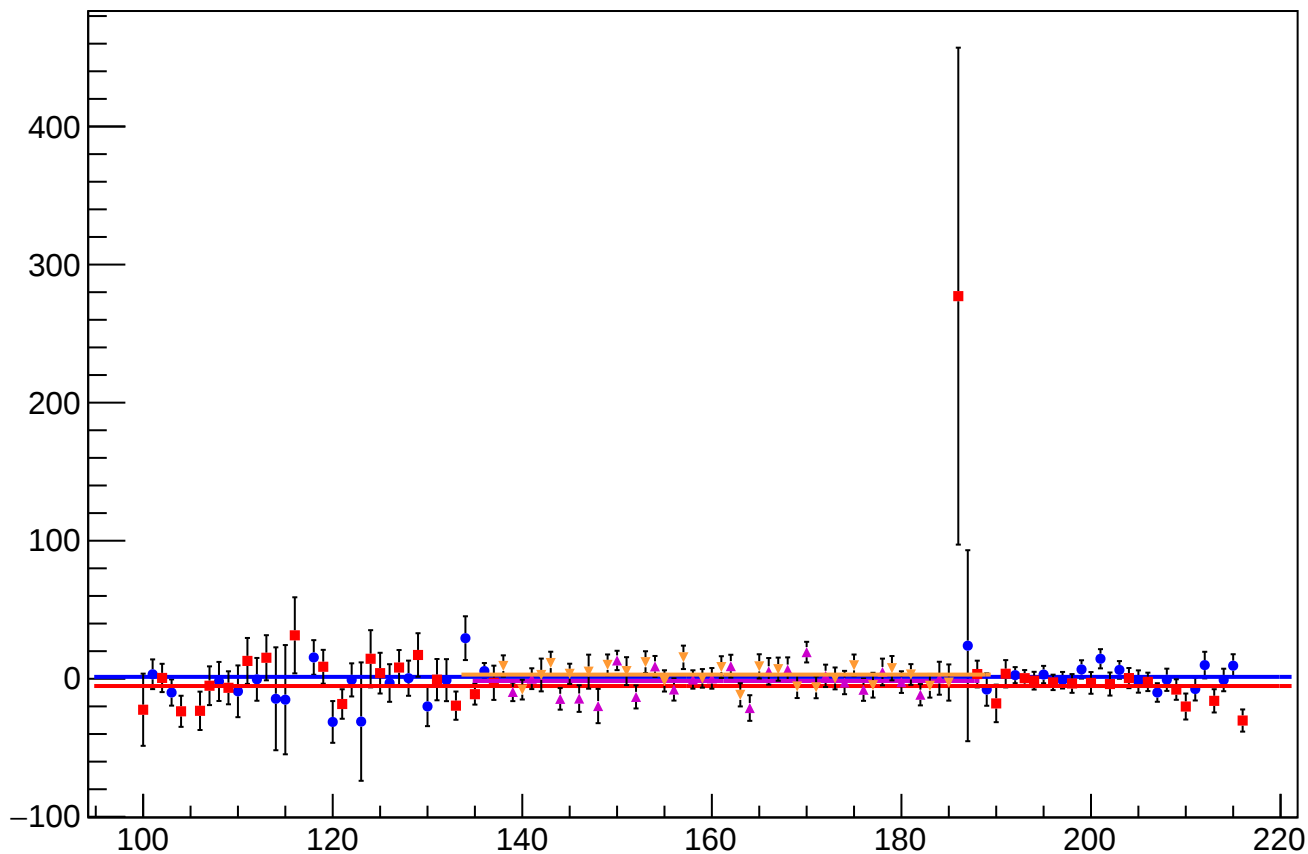
Right: 17848.662 $\pm$ 2.224 χ^2 /NDF: 5849180.6/66

In: 11017.624 $\pm$ 1.416 χ^2 /NDF:8620486.2/54

Out: 10944.872 $\pm$ 1.383 χ^2 /NDF:9721161.5/59

All: 10980.365 $\pm$ 0.989 χ^2 /NDF: 18342998.7

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.383 ± 1.641 $\chi^2/\text{NDF}: 26.6/31$

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

Right Out: -5.240 ± 1.623 $\chi^2/\text{NDF}: 40.9/34$

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

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

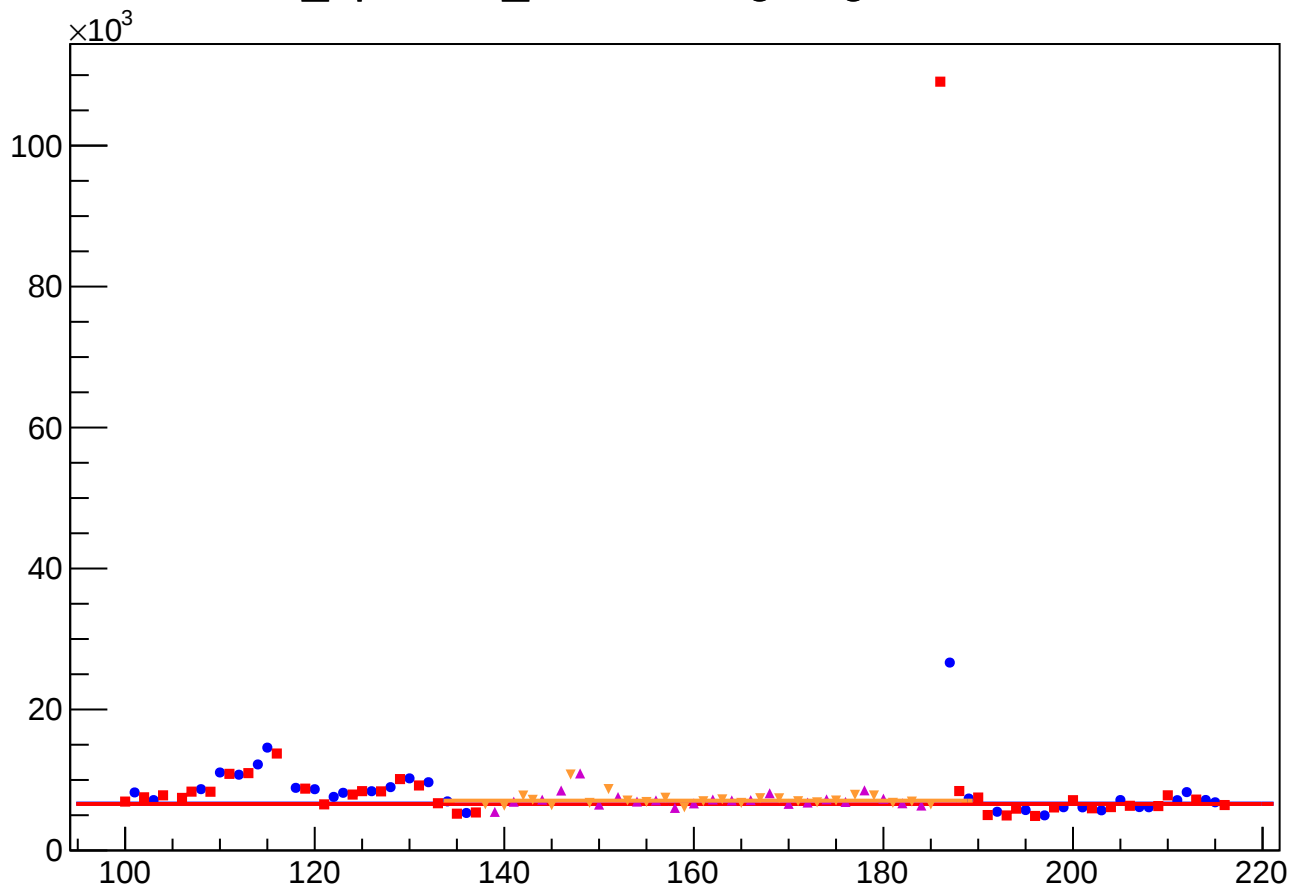
Right: -1.966 ± 1.154 $\chi^2/\text{NDF}: 75.7/66$

In: -0.048 ± 1.182 $\chi^2/\text{NDF}: 63.7/54$

Out: -1.202 ± 1.161 $\chi^2/\text{NDF}: 72.2/59$

All: -0.635 ± 0.828 $\chi^2/\text{NDF}: 136.3/114$

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: 6597.990 $\pm$ 1.147 χ^2/NDF : 2152038.2/34

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

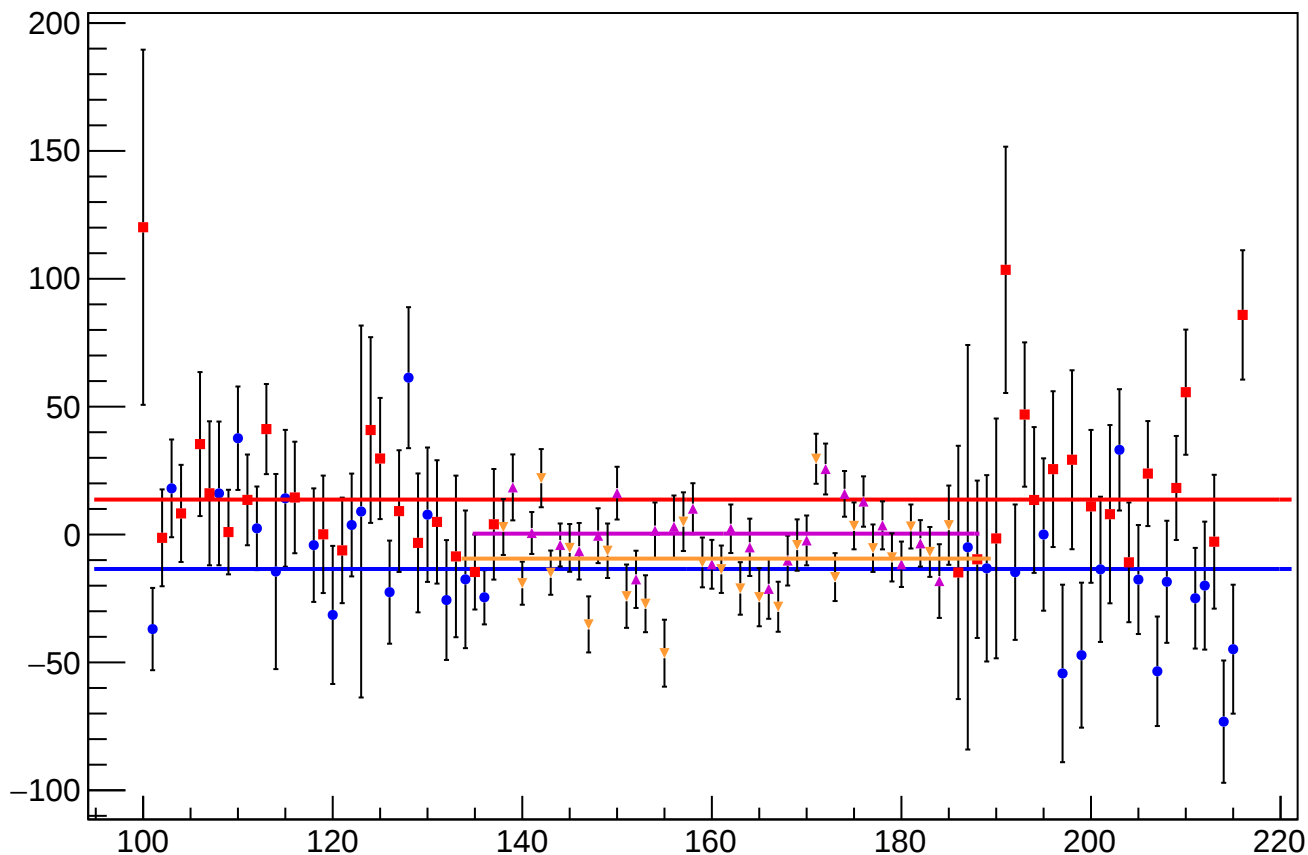
Right: 6620.797 $\pm$ 0.816 χ^2/NDF : 3765040.4/66

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

Out: 6825.856 $\pm$ 0.821 χ^2/NDF : 2619577.5/59

All: 6824.245 $\pm$ 0.586 χ^2/NDF : 4806173.2/111

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: 13.671 ± 4.088 $\chi^2/\text{NDF}: 33.1/34$

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

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

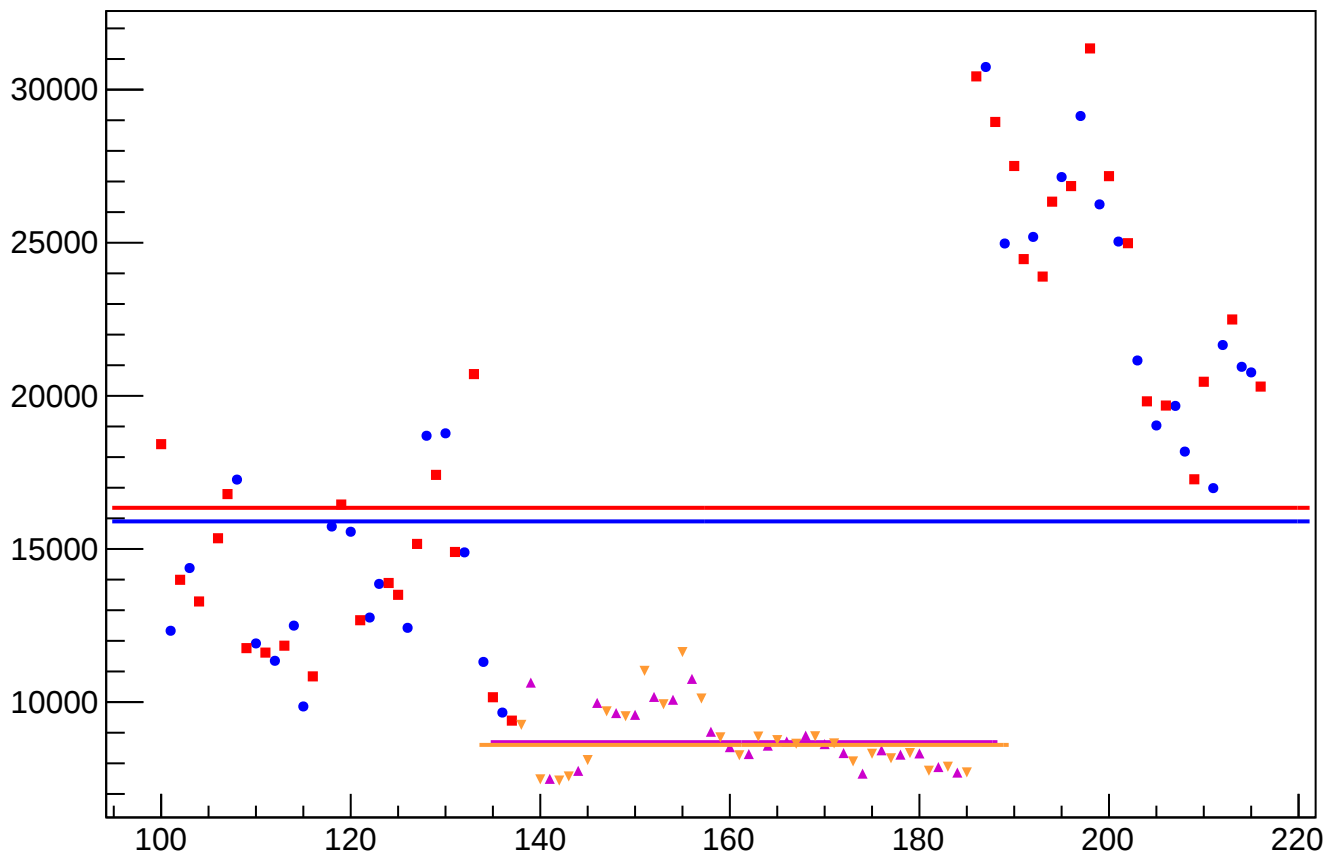
Right: -0.112 ± 2.868 $\chi^2/\text{NDF}: 99.6/66$

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

Out: -4.877 ± 1.812 $\chi^2/\text{NDF}: 117.5/59$

All: -3.777 ± 1.299 $\chi^2/\text{NDF}: 201.5/114$

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: 16344.324 $\pm$ 2.891 χ^2 /NDF: 3723150.5/34

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

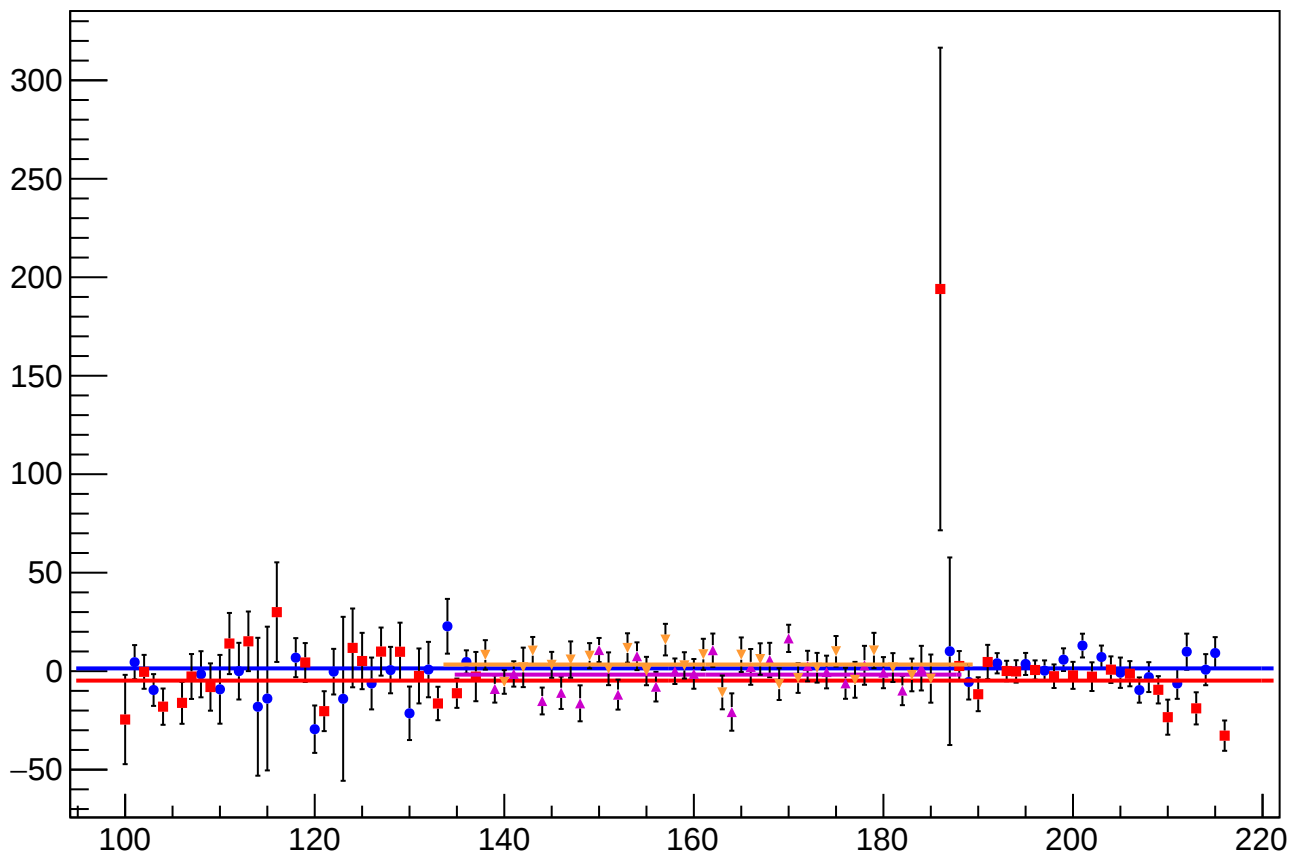
Right: 16119.047 $\pm$ 2.028 χ^2 /NDF: 7101255.1/66

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

Out: 10122.884 $\pm$ 1.281 χ^2 /NDF:9926860.9/59

All: 10177.293 $\pm$ 0.918 χ^2 /NDF: 18706472.6

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: -4.790 ± 1.448 χ^2/NDF : 49.4/34

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

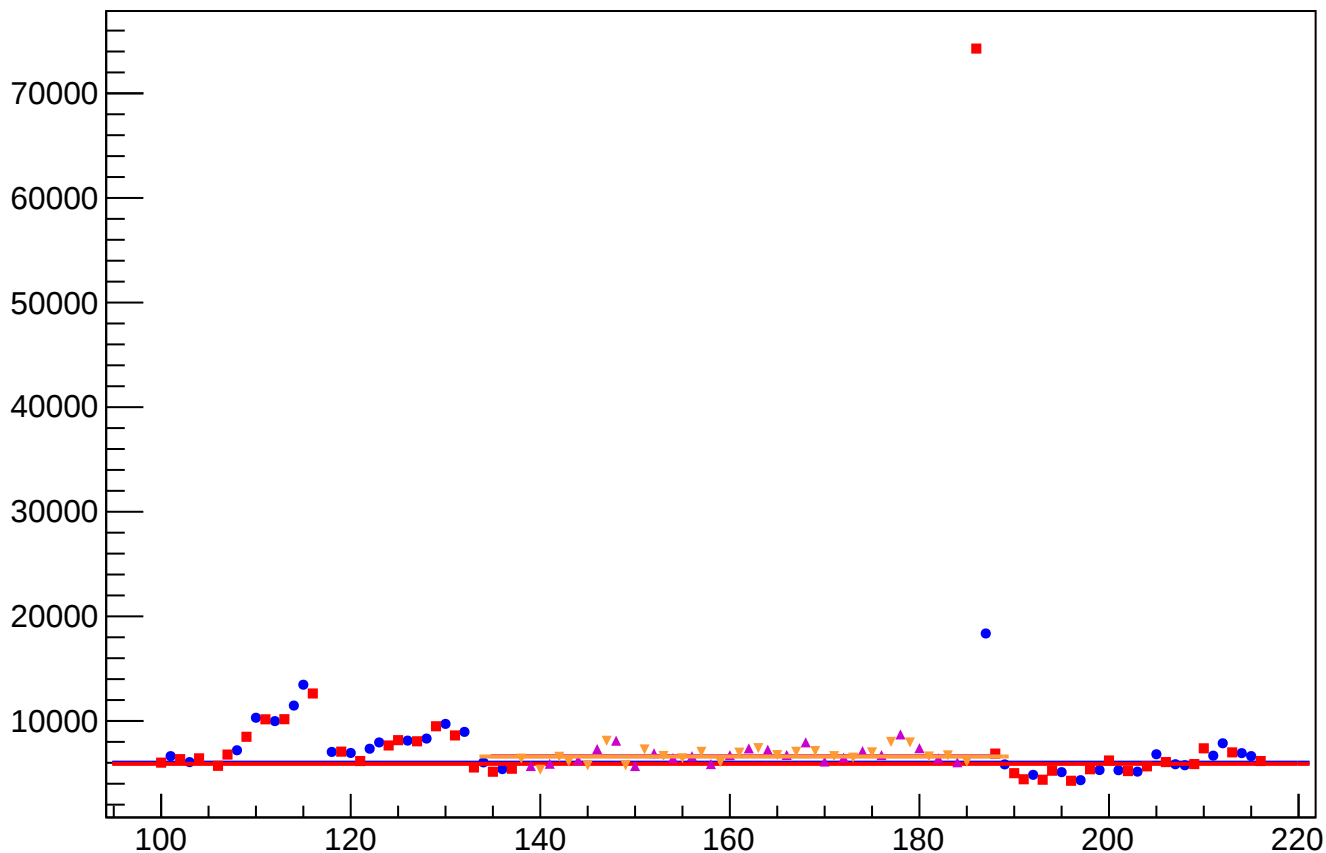
Right: -1.770 ± 1.037 χ^2/NDF : 86.7/66

In: -0.050 ± 1.091 χ^2/NDF : 63.9/54

Out: -0.991 ± 1.059 χ^2/NDF : 81.4/59

All: -0.534 ± 0.760 χ^2/NDF : 145.7/114

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6015.850+/-1.050 χ^2/NDF : 1644533.9/31

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

Right Out: 5898.594+/-1.024 χ^2/NDF : 2235024.4/34

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

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

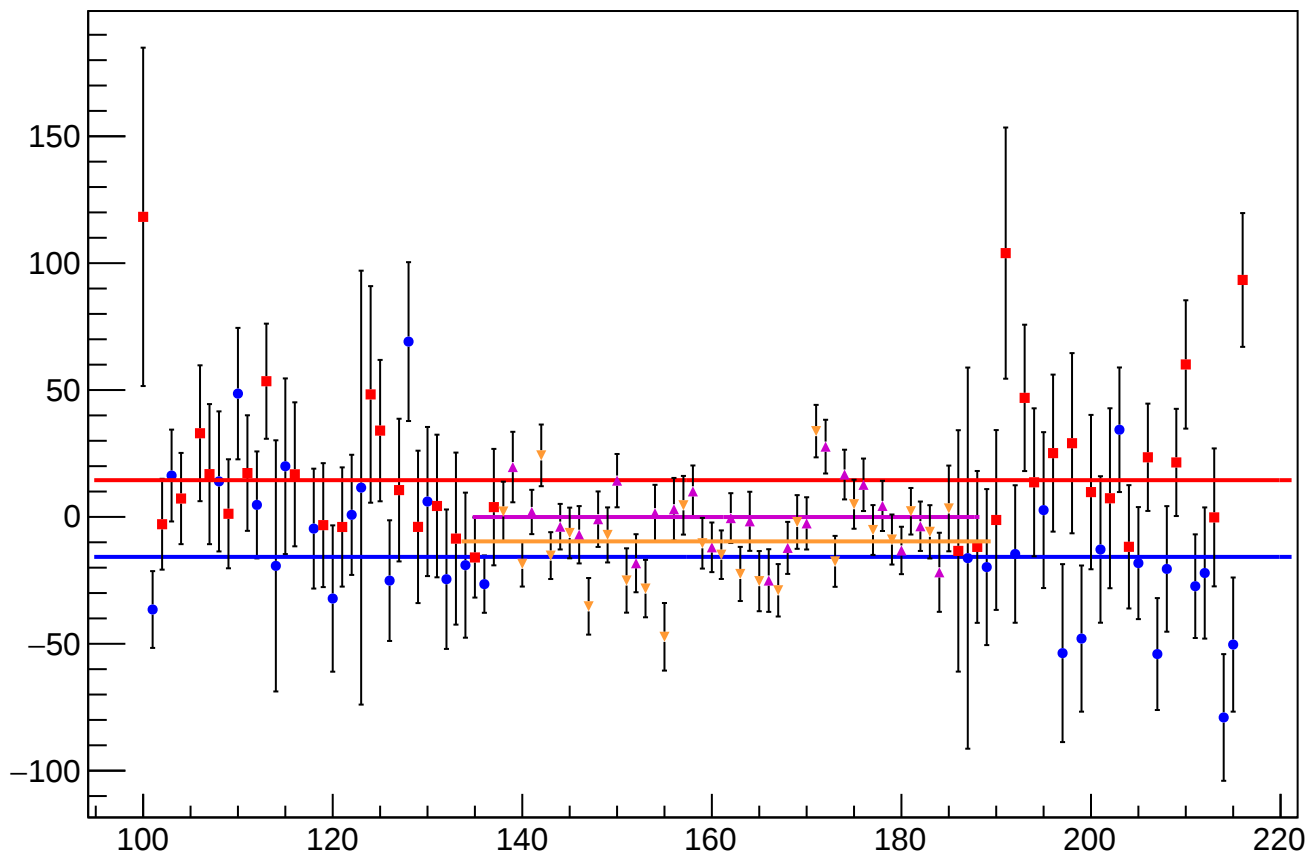
Right: 5955.721+/-0.733 χ^2/NDF : 3885950.2/66

In: 6302.086+/-0.771 χ^2/NDF : 2221308.7/54

Out: 6226.829+/-0.749 χ^2/NDF : 2851200.9/59

All: 6263.331+/-0.537 χ^2/NDF : 5077412.5/11

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: 14.480 $\pm$ 4.404 χ^2/NDF : 34.7/34

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

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

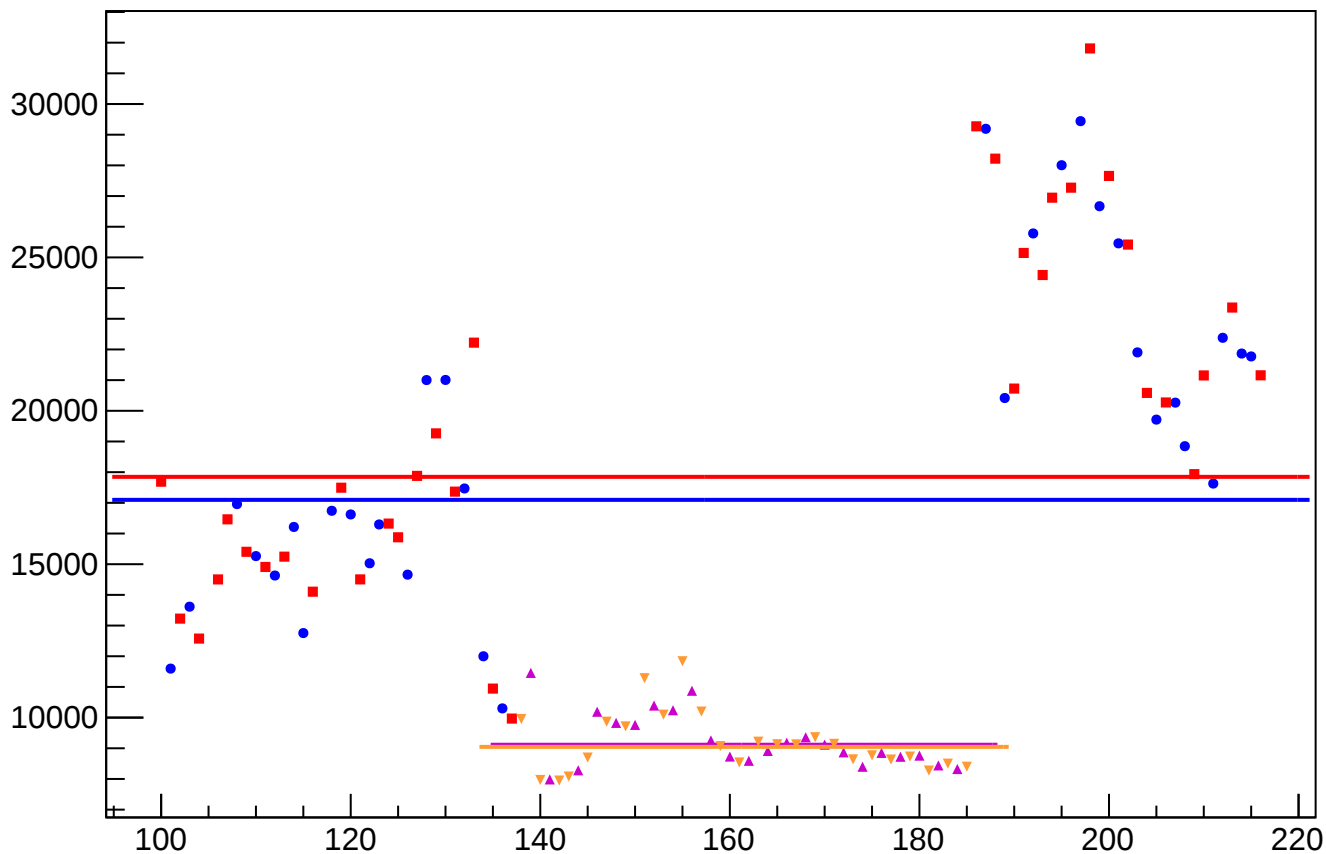
Right: -1.012 $\pm$ 3.076 χ^2/NDF : 102.0/66

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

Out: -5.097 $\pm$ 1.912 χ^2/NDF : 118.9/59

All: -4.223 $\pm$ 1.368 χ^2/NDF : 203.9/114

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: 17847.609 $\pm$ 3.114 χ^2/NDF : 2875757.5/34

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

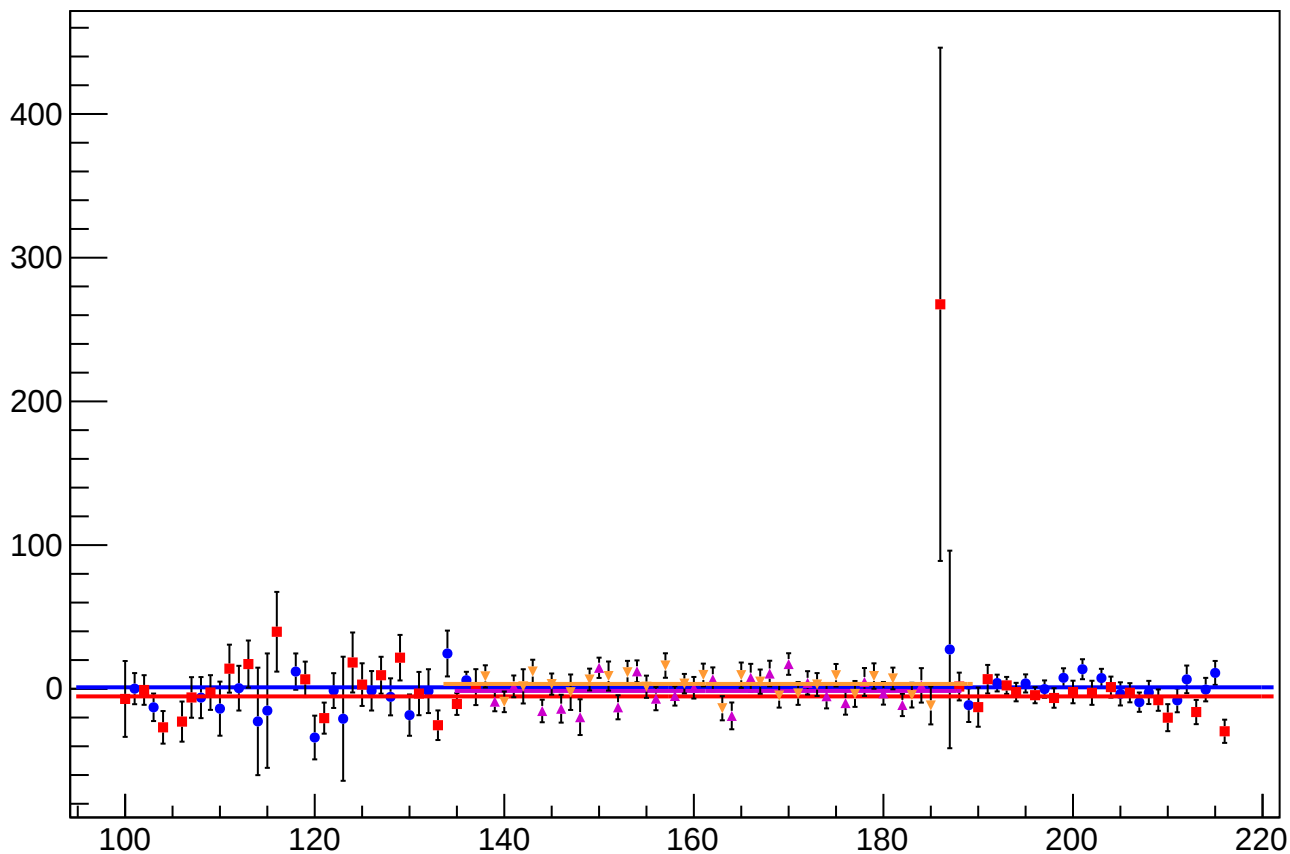
Right: 17463.275 $\pm$ 2.175 χ^2/NDF : 5750920.0/66

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

Out: 10703.713 $\pm$ 1.352 χ^2/NDF :9686995.6/59

All: 10737.995 $\pm$ 0.967 χ^2/NDF : 18274513.0

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.035 $\pm$ 1.646 χ^2/NDF : 27.8/31

Left Out: 3.387 $\pm$ 1.668 χ^2/NDF : 19.4/24

Right Out: -5.291 $\pm$ 1.629 χ^2/NDF : 45.5/34

Left In: -1.479 $\pm$ 1.710 χ^2/NDF : 36.7/22

Left: 1.015 $\pm$ 1.194 χ^2/NDF : 60.3/47

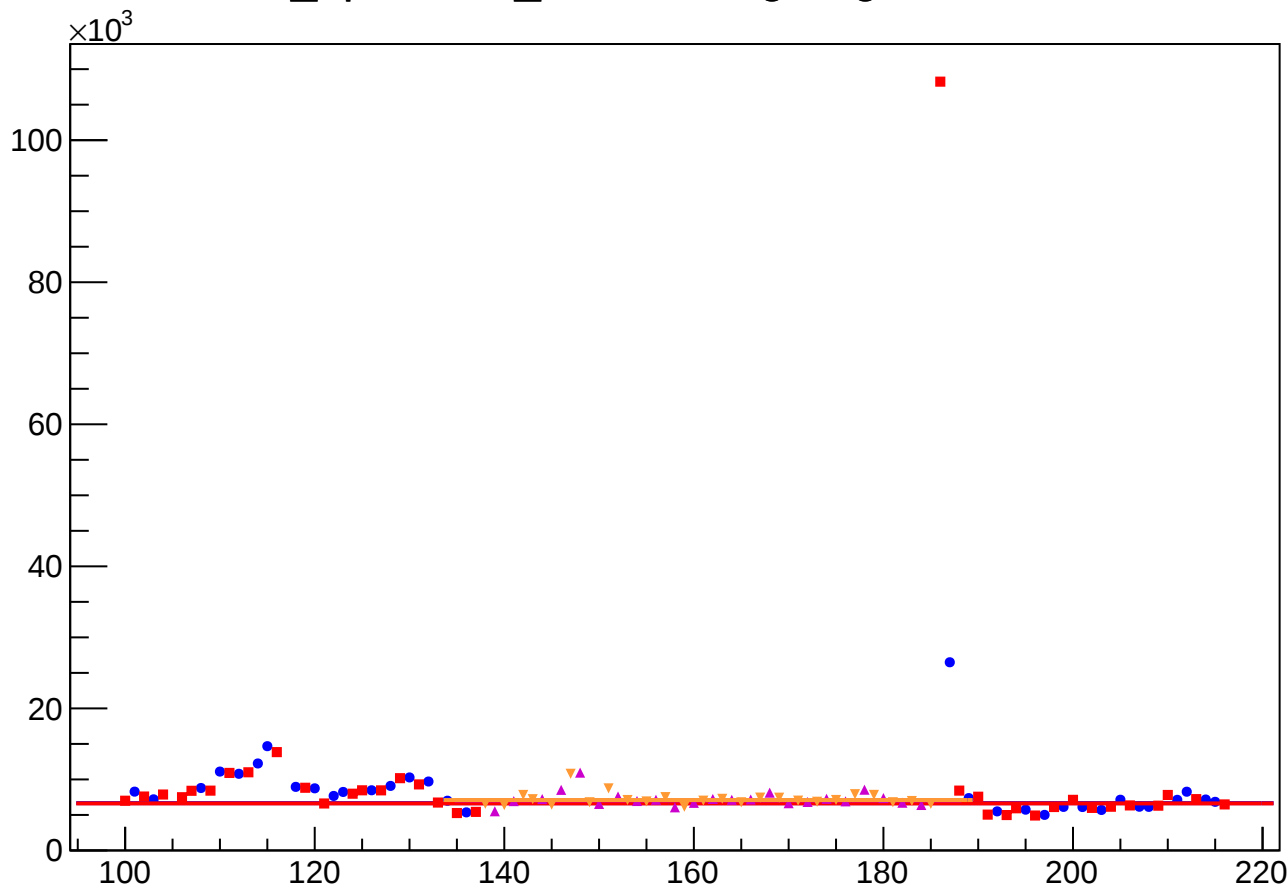
Right: -2.162 $\pm$ 1.158 χ^2/NDF : 80.8/66

In: -0.174 $\pm$ 1.186 χ^2/NDF : 65.7/54

Out: -1.055 $\pm$ 1.165 χ^2/NDF : 78.8/59

All: -0.622 $\pm$ 0.831 χ^2/NDF : 144.8/114

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: 6623.223 $\pm$ 1.152 χ^2/NDF : 2155336.8/34

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

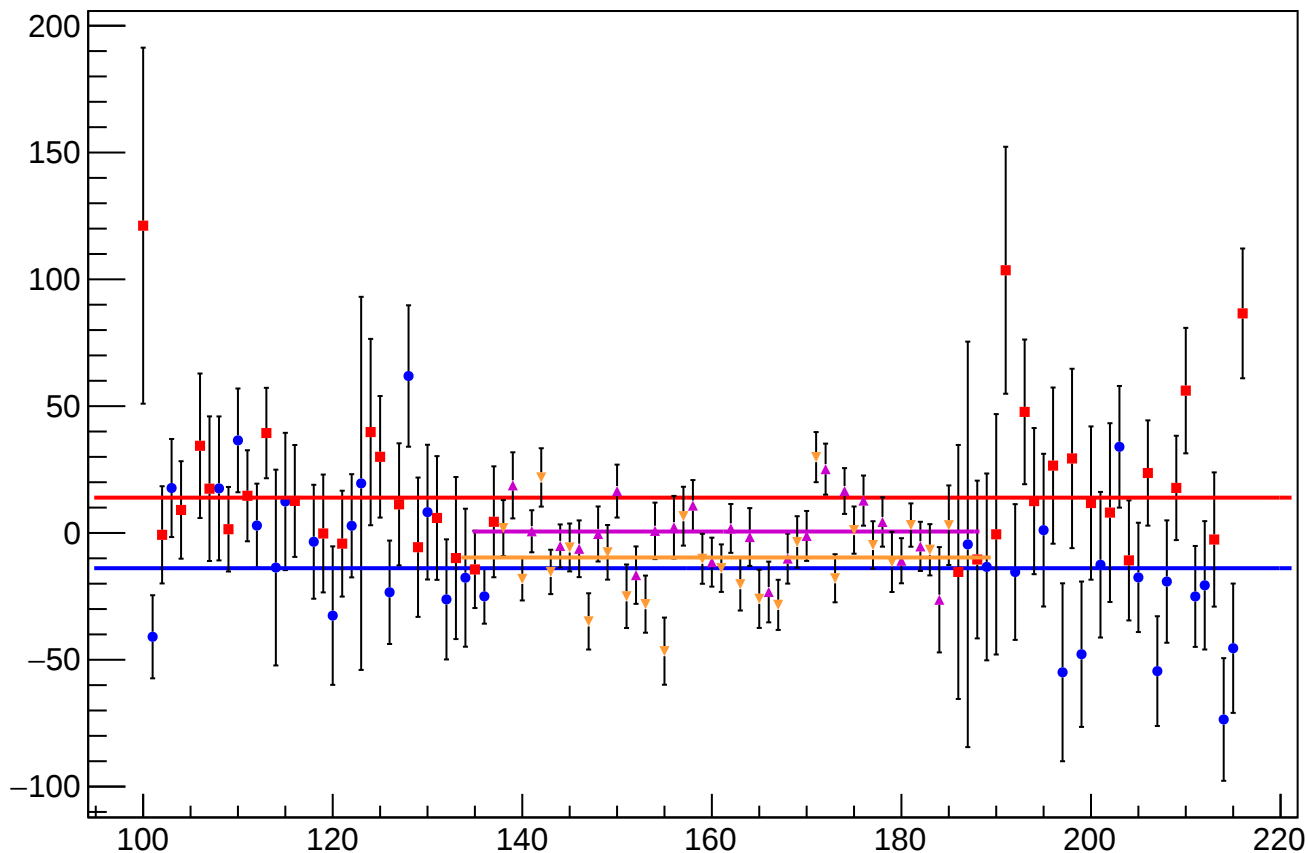
Right: 6643.505 $\pm$ 0.819 χ^2/NDF : 3774454.5/66

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

Out: 6854.177 $\pm$ 0.824 χ^2/NDF : 2619659.7/59

All: 6851.366 $\pm$ 0.588 χ^2/NDF : 4807681.5/111

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: 13.927 $\pm$ 4.142 χ^2/NDF : 32.0/34

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

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

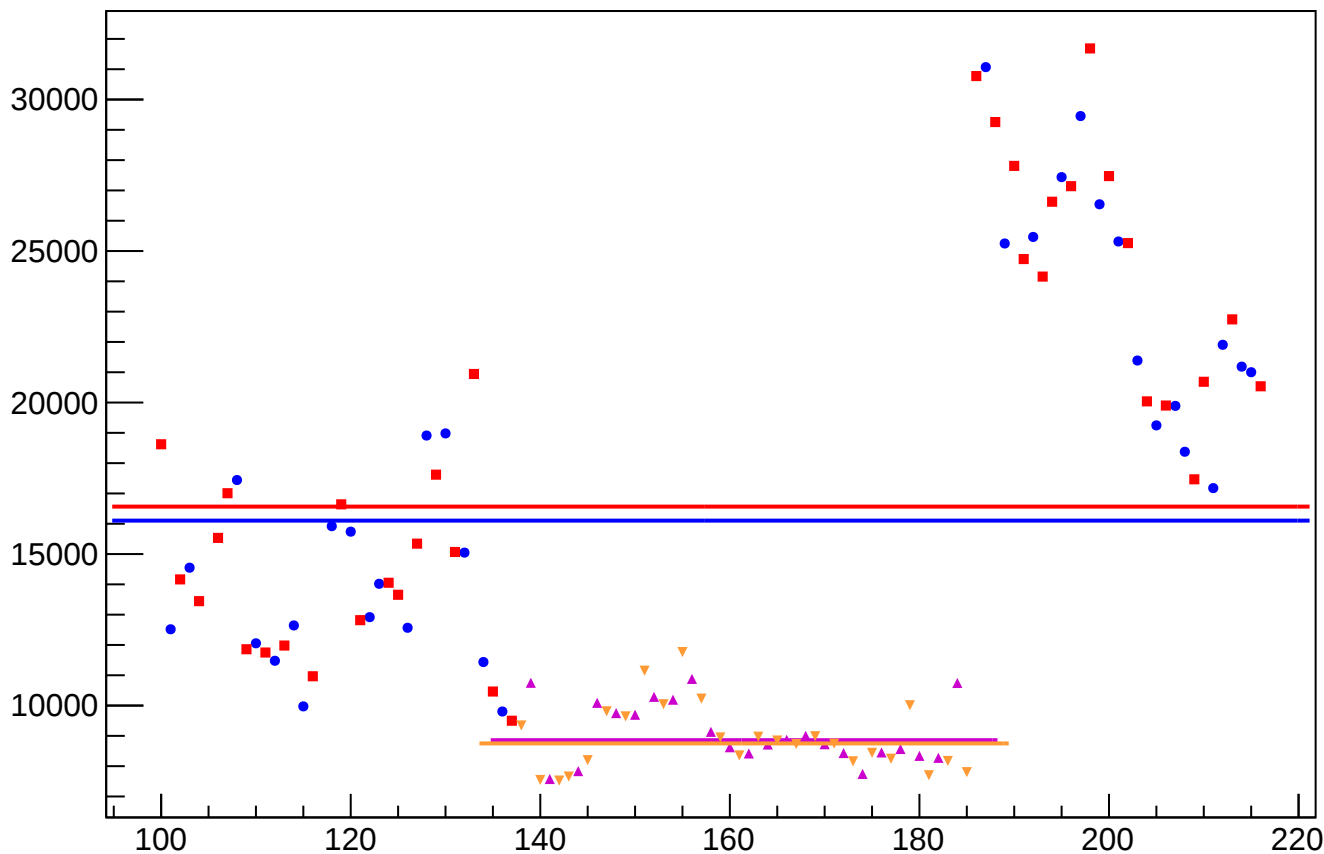
Right: -0.207 $\pm$ 2.905 χ^2/NDF : 99.4/66

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

Out: -4.988 $\pm$ 1.845 χ^2/NDF : 115.9/59

All: -3.812 $\pm$ 1.323 χ^2/NDF : 200.8/114

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: 16566.195 $\pm$ 2.929 χ^2 /NDF: 3683971.0/34

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

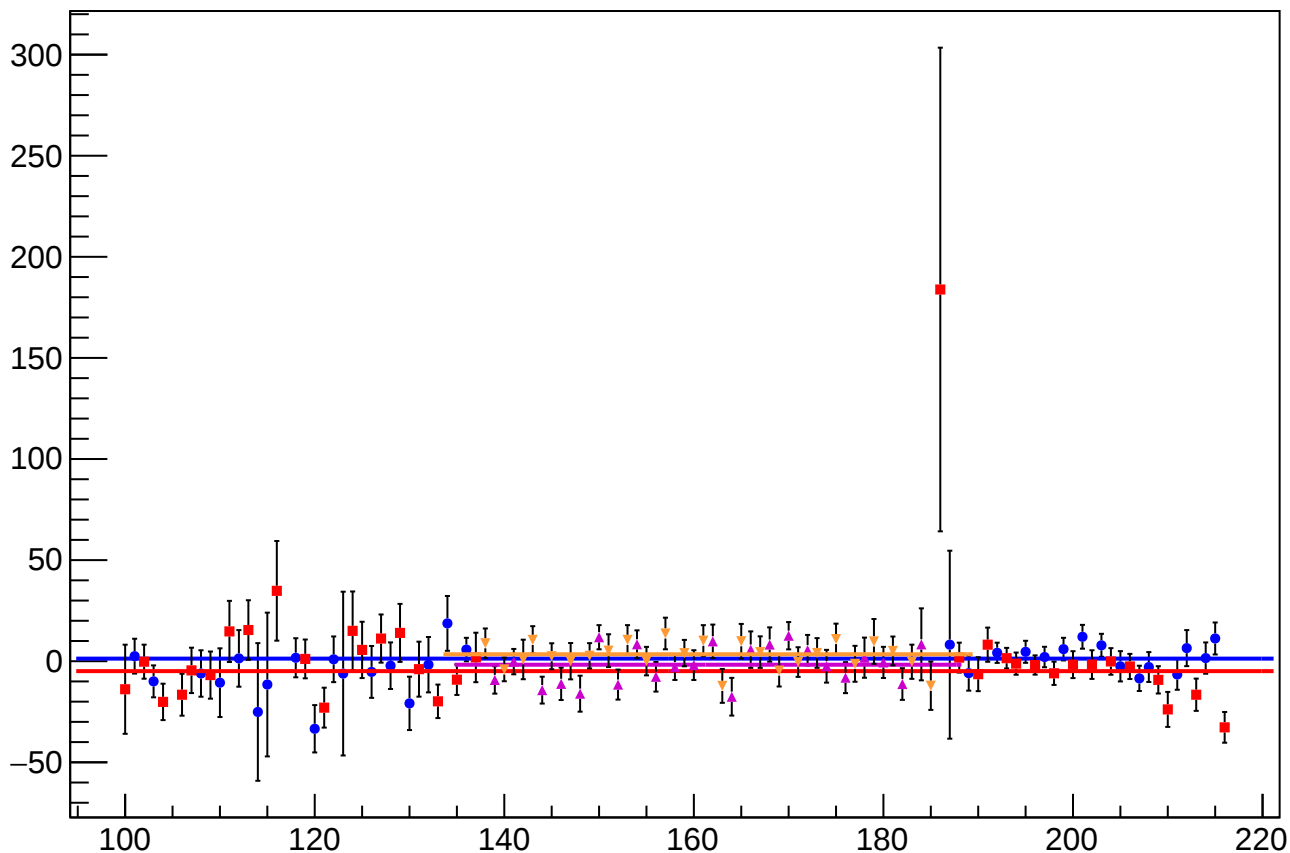
Right: 16331.037 $\pm$ 2.054 χ^2 /NDF: 7038911.4/66

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

Out: 10301.276 $\pm$ 1.305 χ^2 /NDF: 9857030.7/59

All: 10362.851 $\pm$ 0.935 χ^2 /NDF: 18518915.9

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.282 ± 1.449 $\chi^2/\text{NDF}: 30.8/31$

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

Right Out: -4.905 ± 1.412 $\chi^2/\text{NDF}: 53.7/34$

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

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

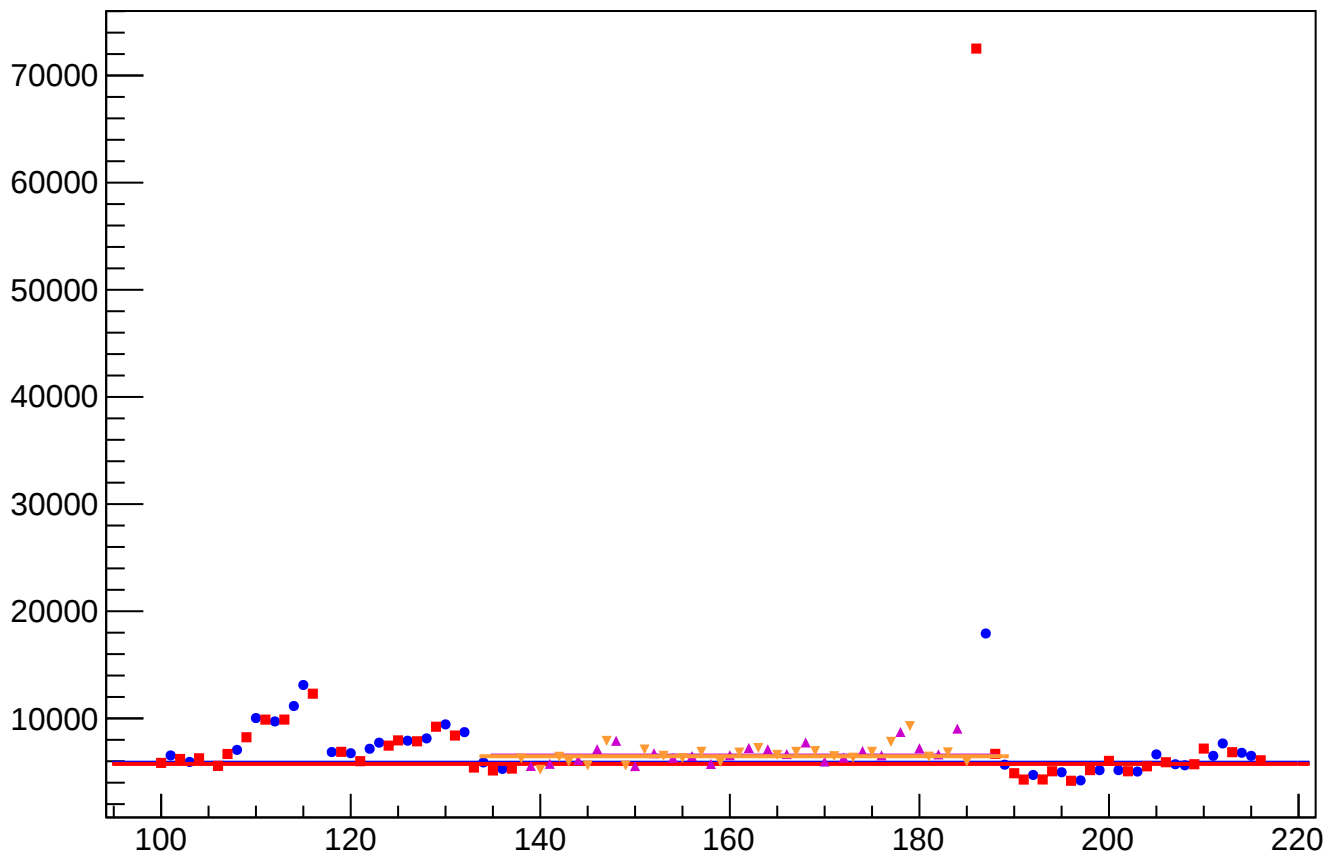
Right: -1.891 ± 1.011 $\chi^2/\text{NDF}: 93.9/66$

In: -0.090 ± 1.070 $\chi^2/\text{NDF}: 66.4/54$

Out: -1.058 ± 1.036 $\chi^2/\text{NDF}: 86.0/59$

All: -0.590 ± 0.744 $\chi^2/\text{NDF}: 152.8/114$

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: 5751.122+/-0.998 χ^2/NDF : 2228009.9/34

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

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

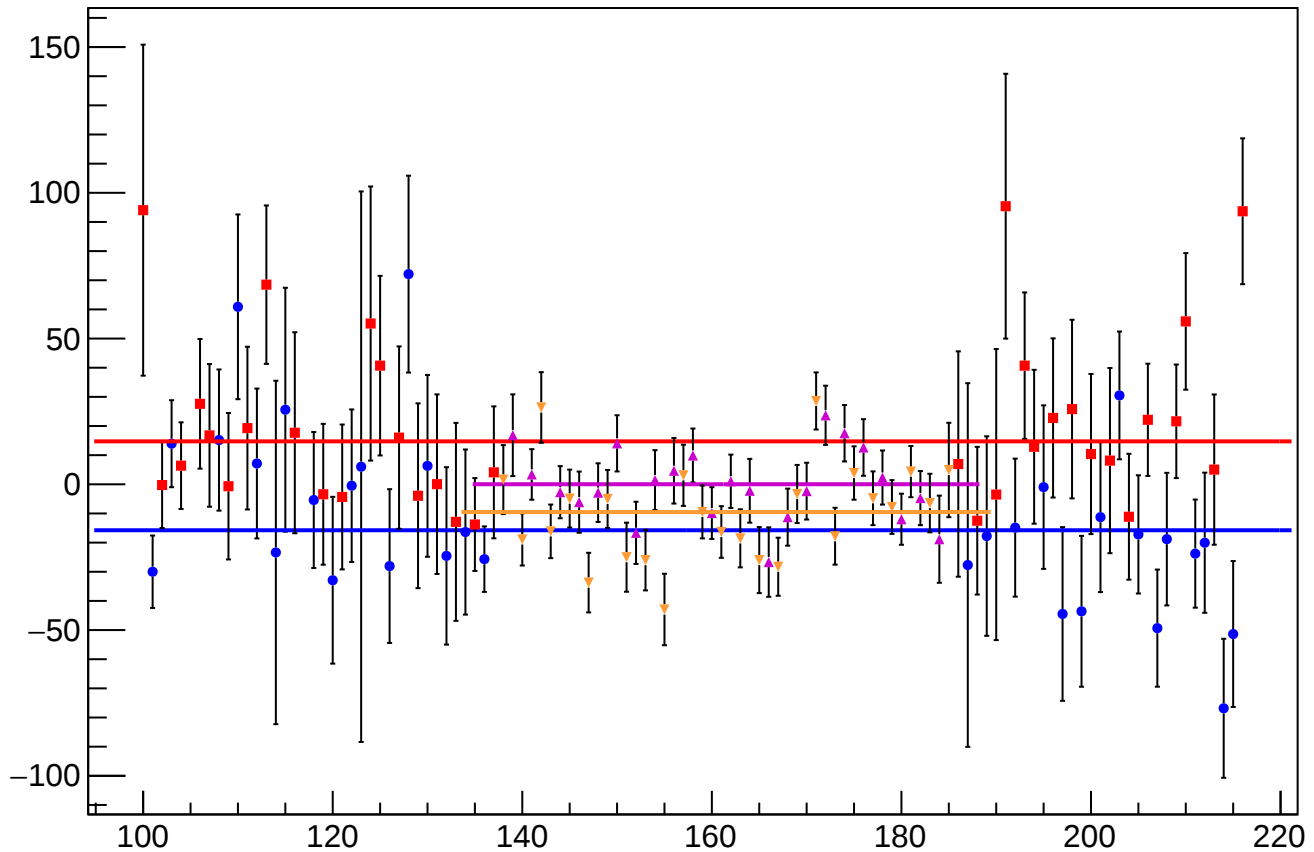
Right: 5807.462+/-0.715 χ^2/NDF : 3887180.8/66

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

Out: 6082.268+/-0.733 χ^2/NDF : 2953626.6/59

All: 6124.261+/-0.526 χ^2/NDF : 5268885.2/111

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: 14.735 ± 4.221 $\chi^2/\text{NDF}: 36.0/34$

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

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

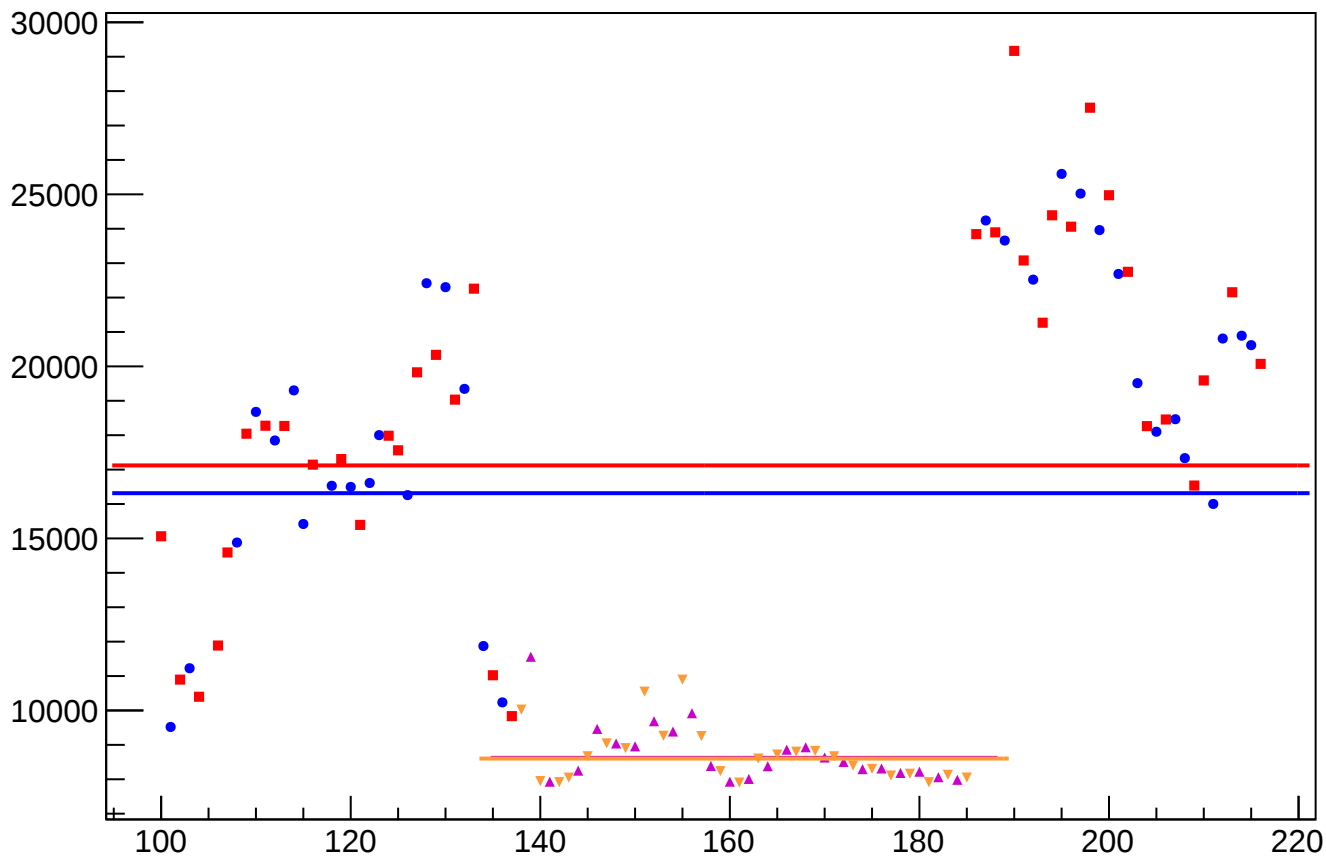
Right: -0.957 ± 2.941 $\chi^2/\text{NDF}: 105.2/66$

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

Out: -5.024 ± 1.819 $\chi^2/\text{NDF}: 122.4/59$

All: -4.133 ± 1.299 $\chi^2/\text{NDF}: 206.9/114$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16314.708 ± 2.899 $\chi^2/\text{NDF}: 2894623.3/31$

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

Right Out: 17121.643 ± 2.985 $\chi^2/\text{NDF}: 2800273.7/34$

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

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

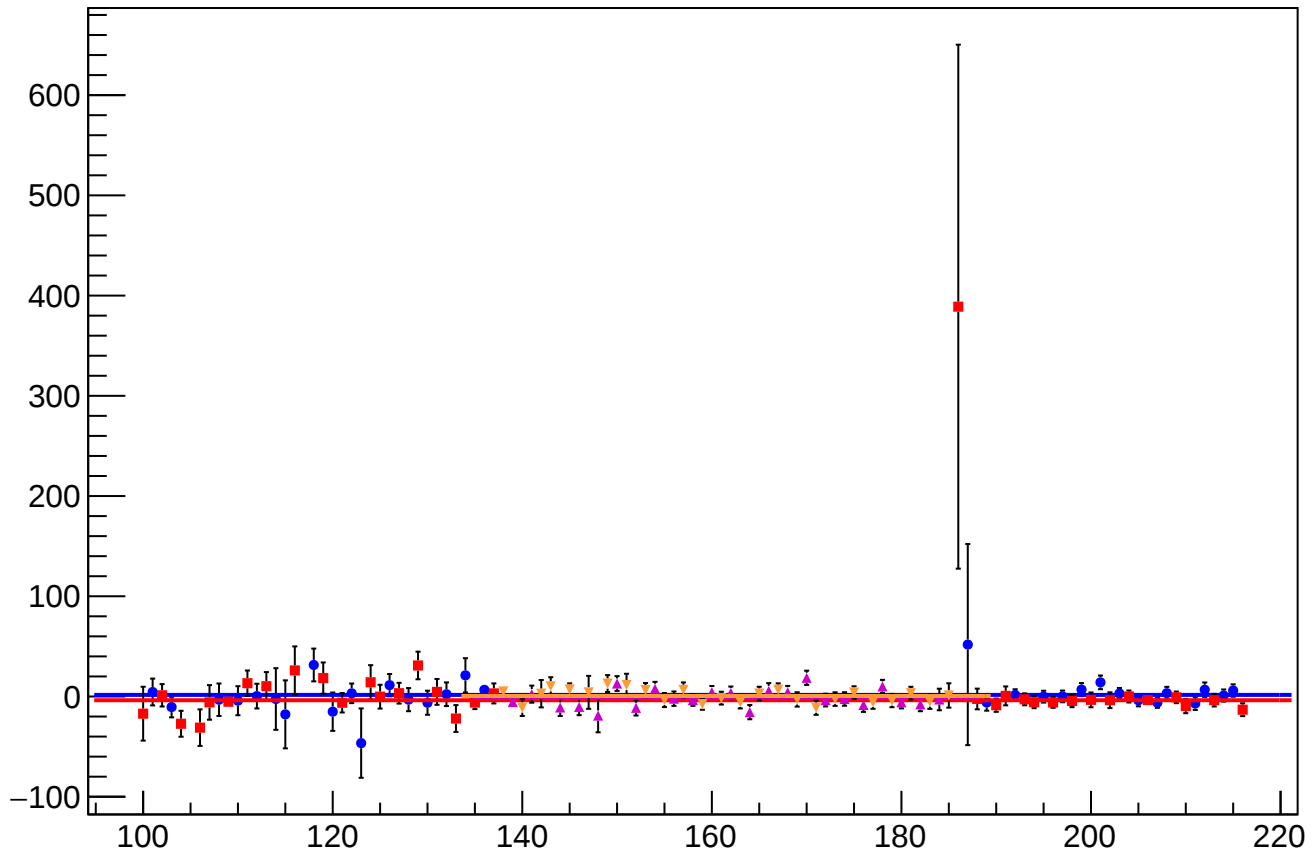
Right: 16706.435 ± 2.080 $\chi^2/\text{NDF}: 5732507.4/66$

In: 10196.488 ± 1.312 $\chi^2/\text{NDF}: 8725490.1/54$

Out: 10183.434 ± 1.286 $\chi^2/\text{NDF}: 9684718.6/59$

All: 10189.832 ± 0.918 $\chi^2/\text{NDF}: 18410259.2$

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.592 $\pm$ 1.416 χ^2/NDF : 23.2/31

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

Right Out: -3.743 $\pm$ 1.374 χ^2/NDF : 30.2/34

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

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

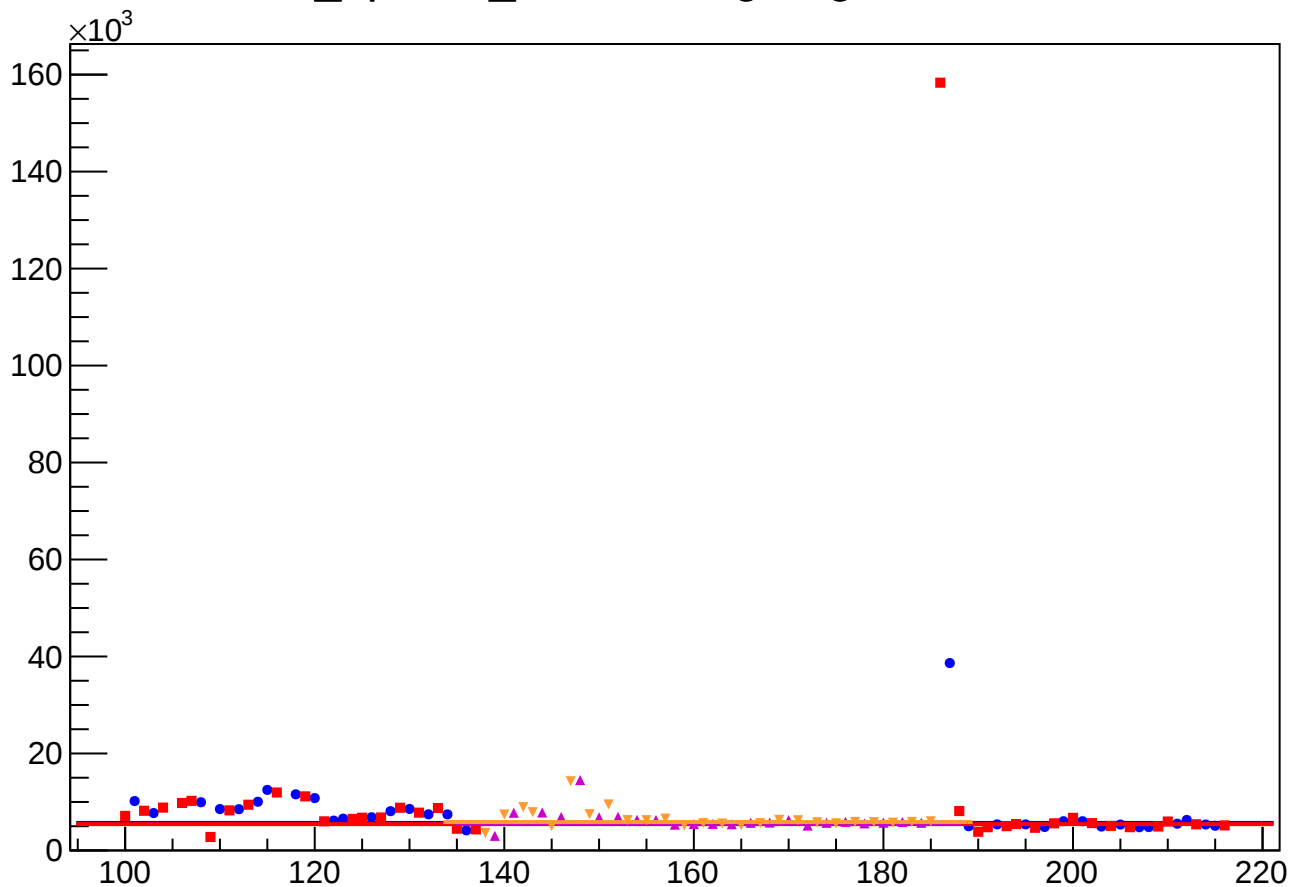
Right: -1.156 $\pm$ 0.986 χ^2/NDF : 60.7/66

In: 0.137 $\pm$ 0.998 χ^2/NDF : 58.3/54

Out: -1.699 $\pm$ 0.987 χ^2/NDF : 54.3/59

All: -0.791 $\pm$ 0.702 χ^2/NDF : 114.4/114

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: 5430.679 $\pm$ 0.972 χ^2/NDF : 3463015.9/34

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

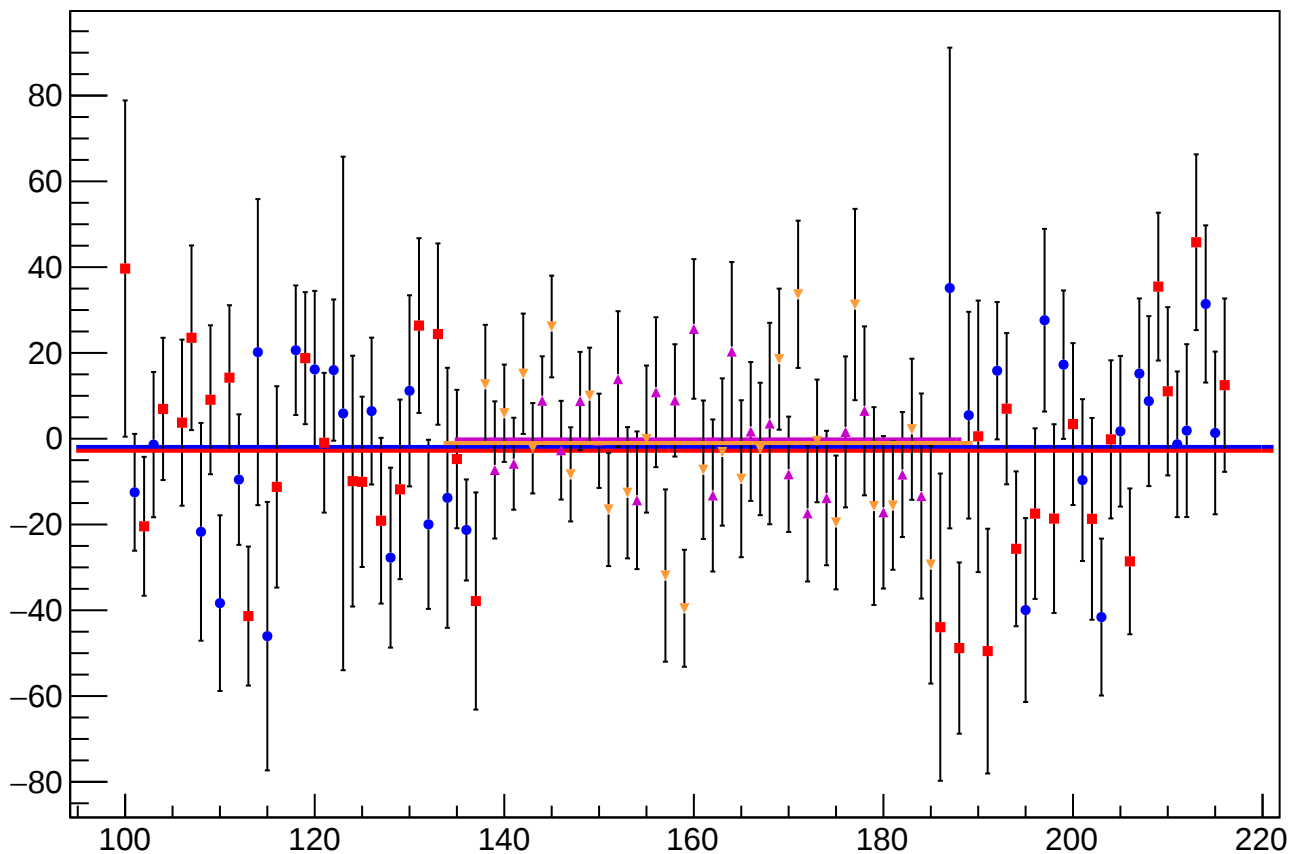
Right: 5550.000 $\pm$ 0.697 χ^2/NDF : 5643807.8/66

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

Out: 5637.753 $\pm$ 0.698 χ^2/NDF : 5248224.8/59

All: 5637.146 $\pm$ 0.496 χ^2/NDF : 9490873.3/11

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: -2.815 ± 3.328 χ^2/NDF : 47.1/34

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

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

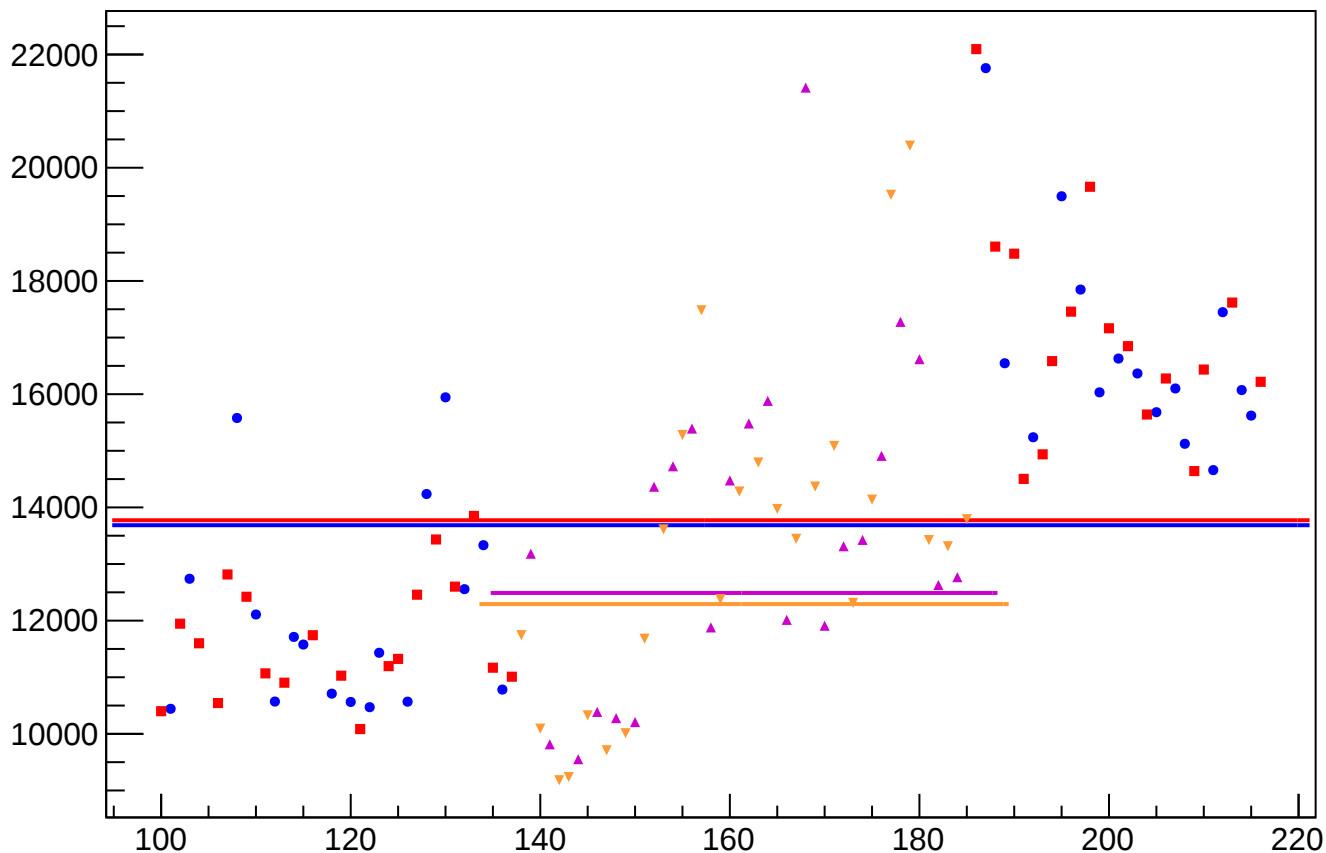
Right: -2.371 ± 2.361 χ^2/NDF : 81.9/66

In: -0.969 ± 2.263 χ^2/NDF : 47.3/54

Out: -1.800 ± 2.204 χ^2/NDF : 80.7/59

All: -1.395 ± 1.579 χ^2/NDF : 128.1/114

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: 13729.677+/-1.670

χ^2/NDF : 2743662.7/66

Right Out: 13773.090+/-2.353

χ^2/NDF : 1424193.0/34

In: 13034.378+/-1.600

χ^2/NDF : 2812073.9/54

Out: 12941.948+/-1.558

χ^2/NDF : 3148957.0/59

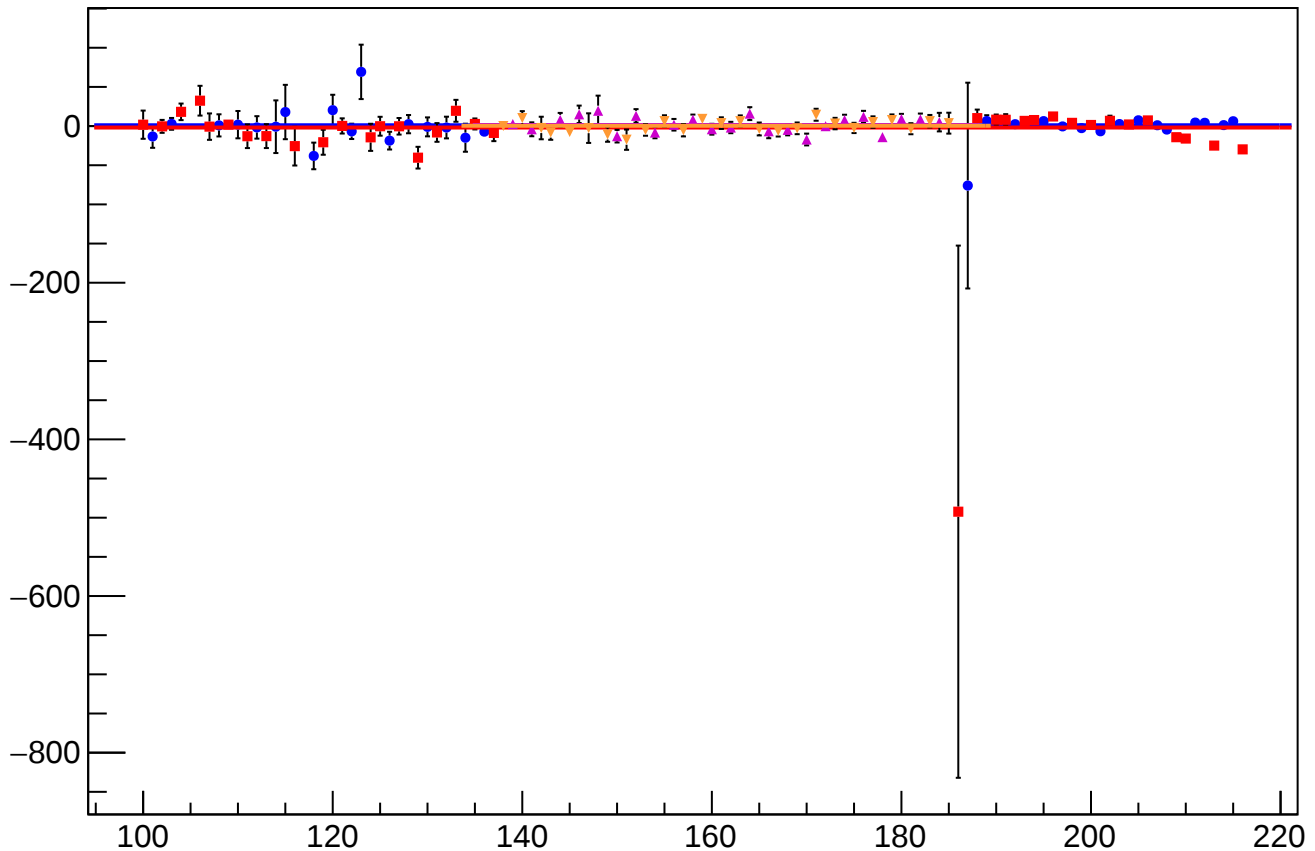
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12986.950+/-1.116

χ^2/NDF : 5962743.5/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.041 ± 1.161 $\chi^2/\text{NDF}: 29.8/31$

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

Right Out: -1.859 ± 1.168 $\chi^2/\text{NDF}: 119.6/34$

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

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

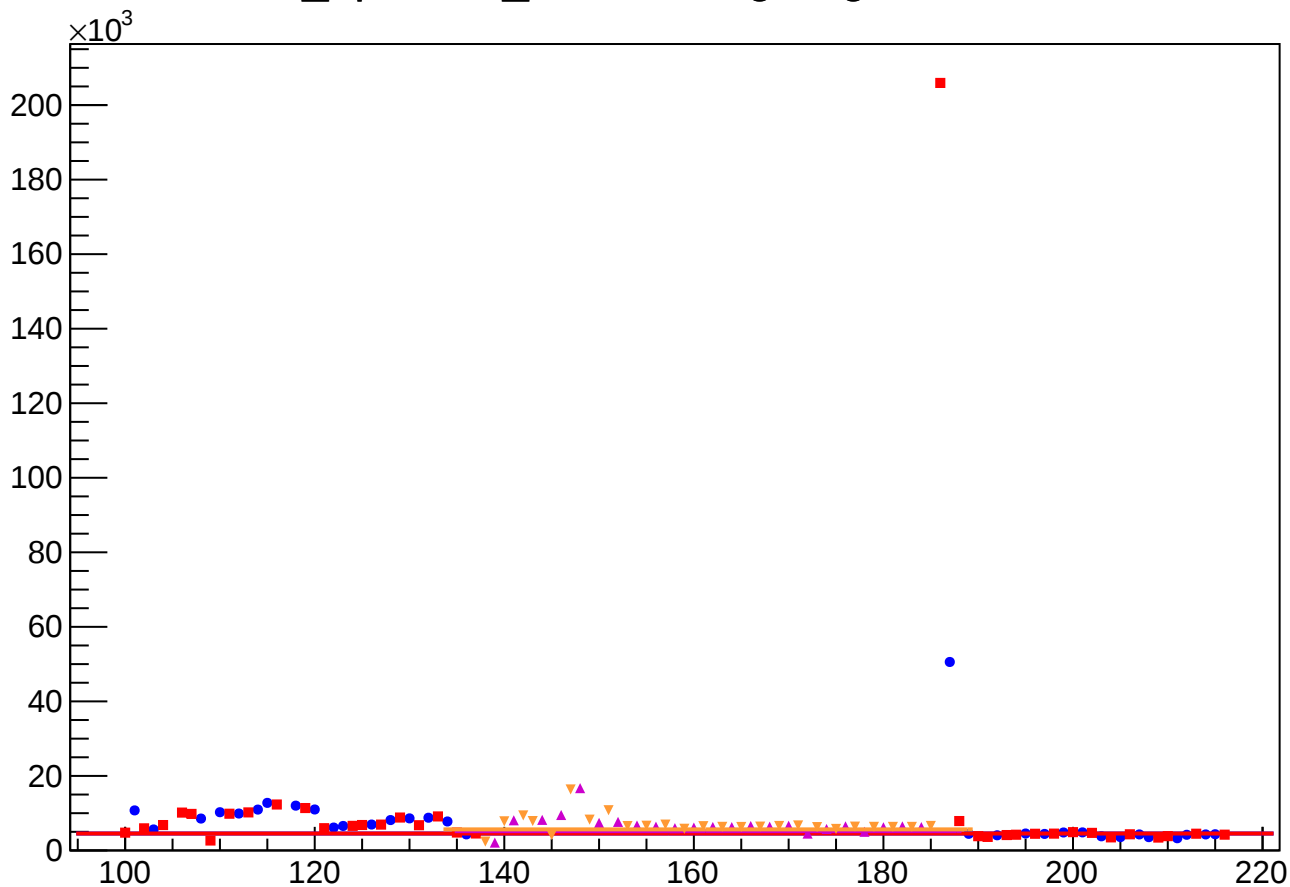
Right: -0.399 ± 0.823 $\chi^2/\text{NDF}: 152.5/66$

In: 1.139 ± 0.890 $\chi^2/\text{NDF}: 63.8/54$

Out: -0.954 ± 0.906 $\chi^2/\text{NDF}: 140.4/59$

All: 0.111 ± 0.635 $\chi^2/\text{NDF}: 206.9/114$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4544.604 $\pm$ 0.821 χ^2/NDF : 3467961.9/31

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

Right Out: 4541.050 $\pm$ 0.826 χ^2/NDF : 3961339.7/34

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

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

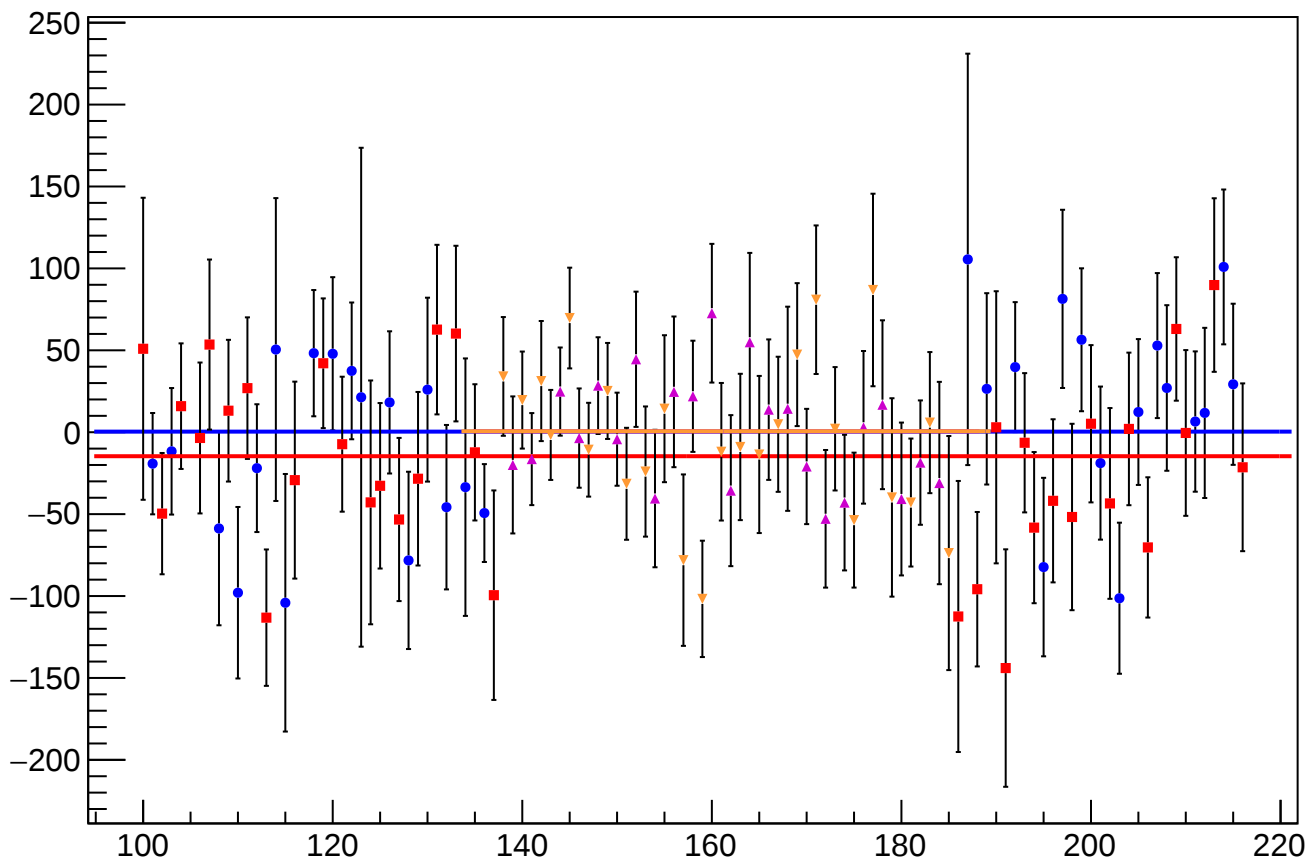
Right: 4542.839 $\pm$ 0.582 χ^2/NDF : 7429310.9/66

In: 4806.843 $\pm$ 0.629 χ^2/NDF : 9065746.9/54

Out: 4985.555 $\pm$ 0.641 χ^2/NDF : 8811264.1/59

All: 4894.582 $\pm$ 0.449 χ^2/NDF : 17916627.1/131

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 0.363 ± 8.385 $\chi^2/\text{NDF}: 36.9/31$

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

Right Out: -14.648 ± 8.319 $\chi^2/\text{NDF}: 38.4/34$

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

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

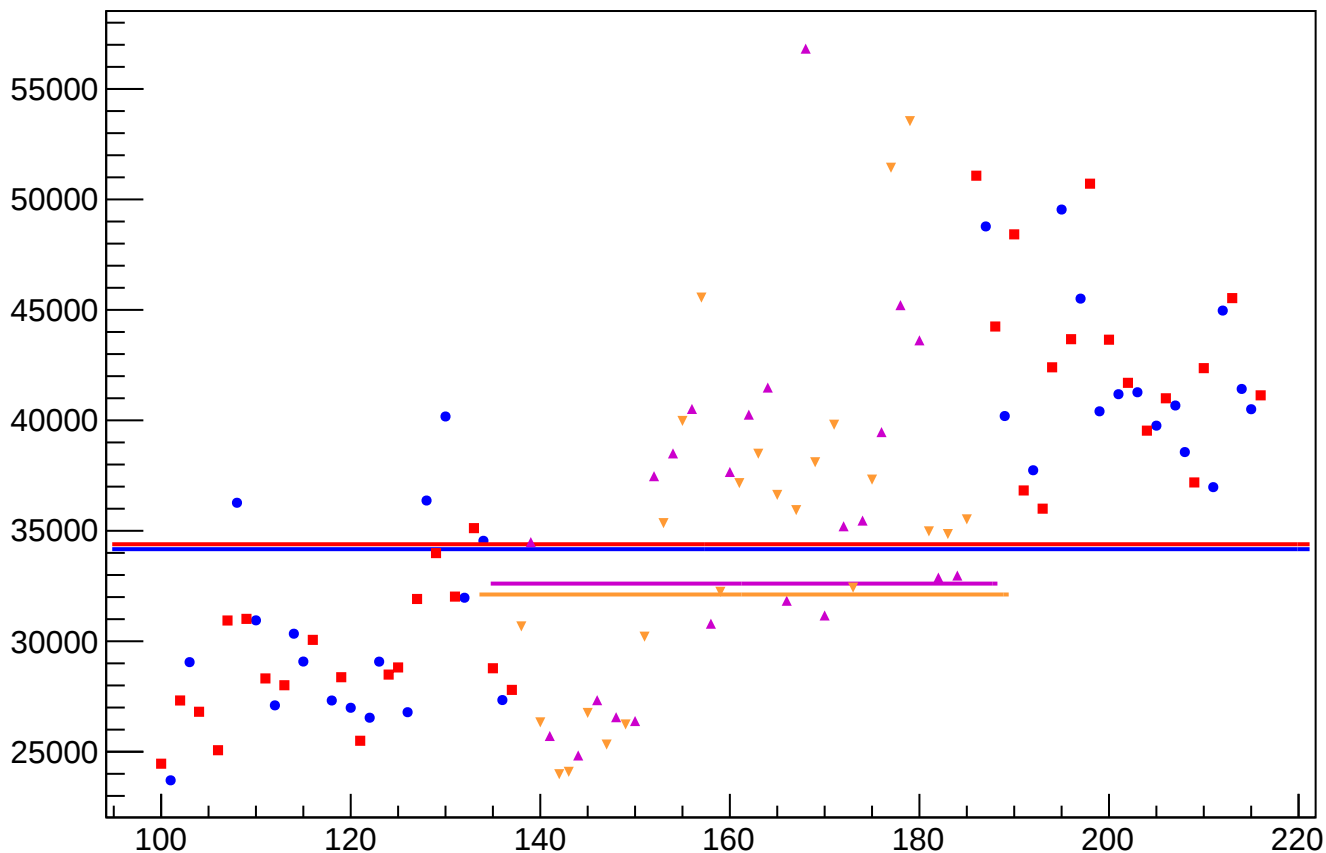
Right: -7.201 ± 5.905 $\chi^2/\text{NDF}: 76.9/66$

In: 0.468 ± 5.794 $\chi^2/\text{NDF}: 51.1/54$

Out: -6.437 ± 5.647 $\chi^2/\text{NDF}: 71.2/59$

All: -3.073 ± 4.044 $\chi^2/\text{NDF}: 123.1/114$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34168.714+/-5.929

χ^2/NDF : 1432838.9/31

Left Out: 32117.184+/-5.438

χ^2/NDF :1536740.0/24

Right Out: 34391.818+/-5.882

χ^2/NDF : 1502246.3/34

Left In: 32610.108+/-5.667

χ^2/NDF :1398475.8/22

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Right: 34281.145+/-4.176

χ^2/NDF : 2935798.7/66

In: 33354.259+/-4.097

χ^2/NDF :2867428.4/54

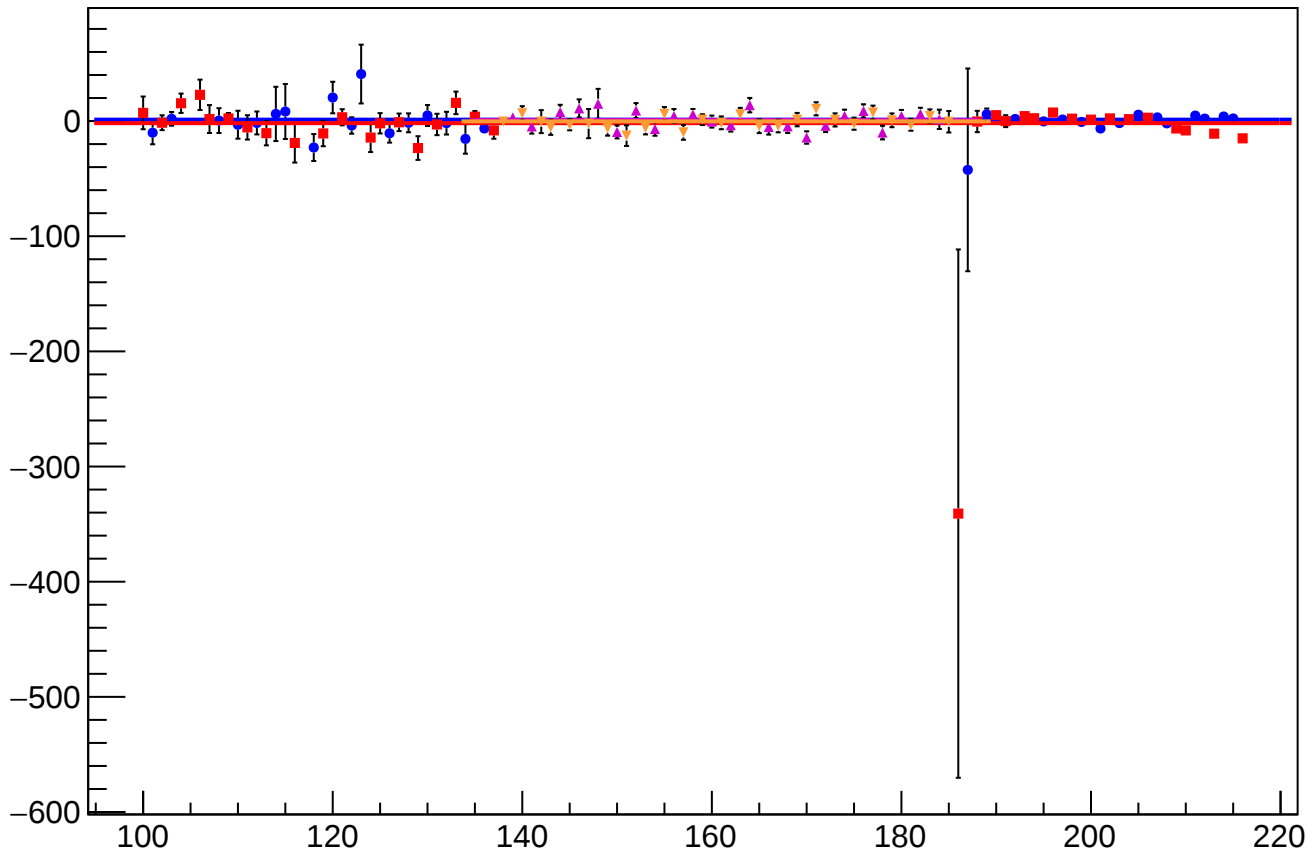
Out: 33165.382+/-3.993

χ^2/NDF :3119610.9/59

All: 33257.403+/-2.859

χ^2/NDF : 5988129.4/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.221 ± 0.674 $\chi^2/\text{NDF}: 38.8/31$

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

Right Out: -1.831 ± 0.717 $\chi^2/\text{NDF}: 99.7/34$

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

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

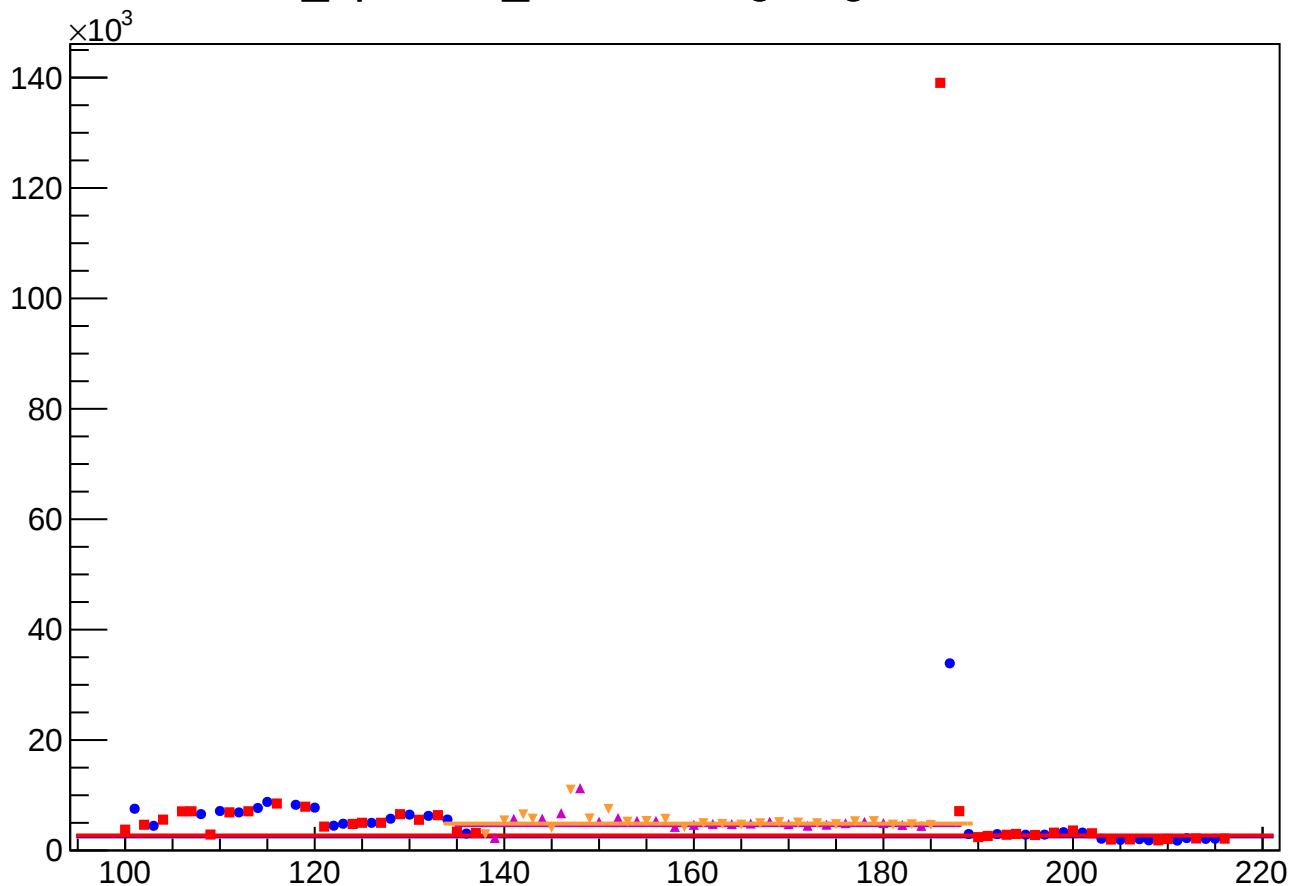
Right: -0.212 ± 0.491 $\chi^2/\text{NDF}: 148.1/66$

In: 1.146 ± 0.582 $\chi^2/\text{NDF}: 75.0/54$

Out: -1.402 ± 0.612 $\chi^2/\text{NDF}: 119.1/59$

All: -0.065 ± 0.422 $\chi^2/\text{NDF}: 203.1/114$

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: 2714.547 $\pm$ 0.507 χ^2/NDF : 5926905.9/34

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

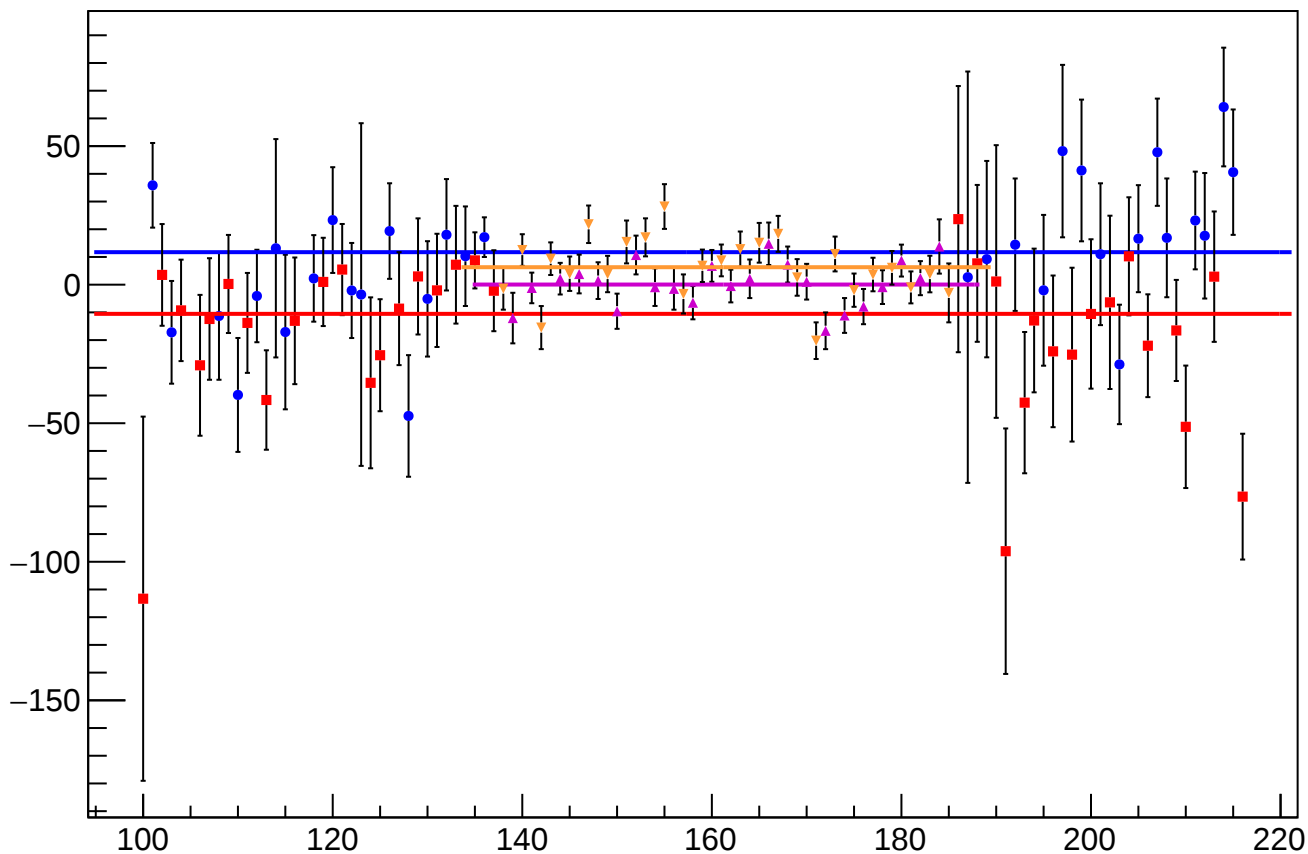
Right: 2628.144 $\pm$ 0.347 χ^2/NDF : 11539798.6/66

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

Out: 3300.181 $\pm$ 0.433 χ^2/NDF : 12339037.3/59

All: 3178.835 $\pm$ 0.298 χ^2/NDF : 25142762.3/100

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: -10.531 ± 3.530 $\chi^2/\text{NDF}: 35.3/34$

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

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

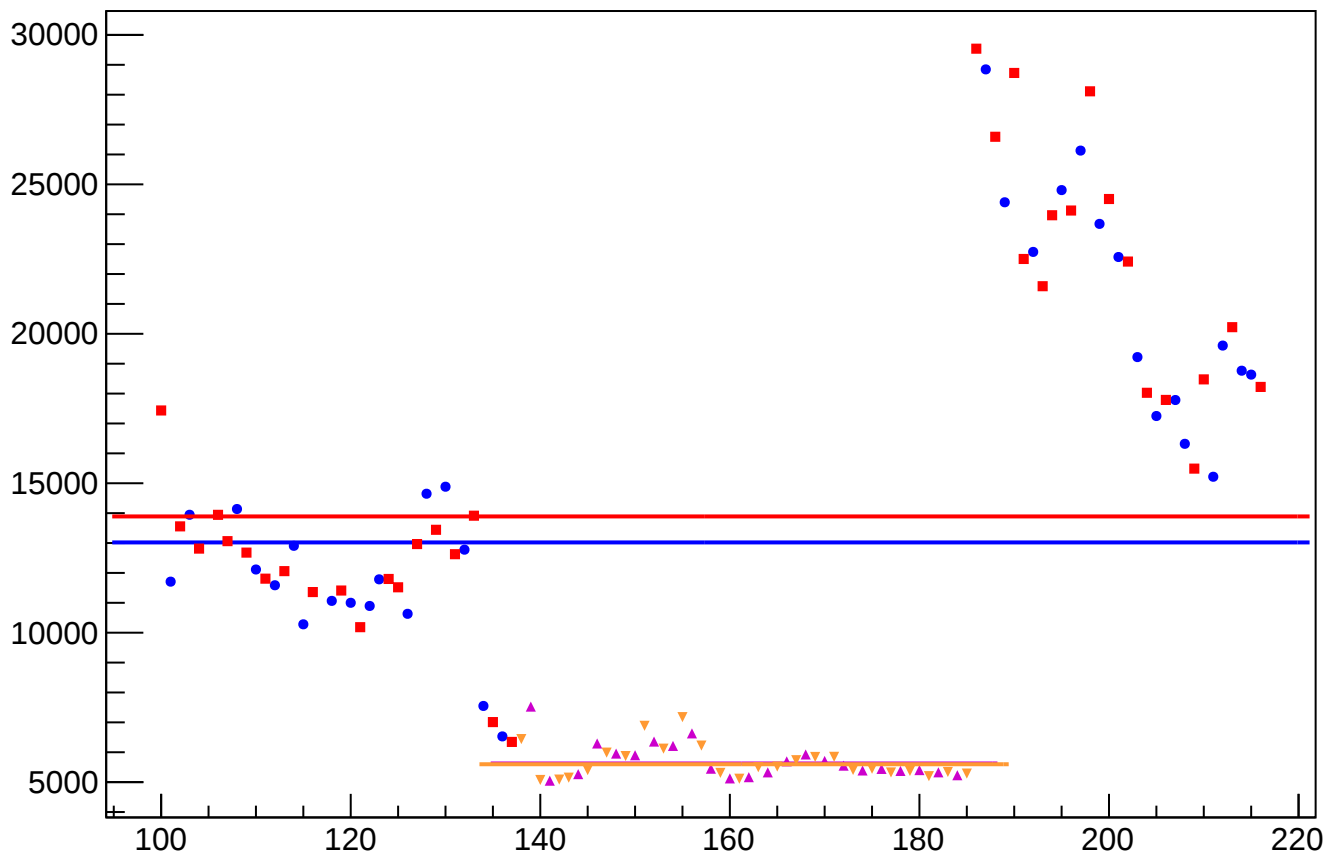
Right: 1.077 ± 2.442 $\chi^2/\text{NDF}: 98.7/66$

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

Out: 4.257 ± 1.230 $\chi^2/\text{NDF}: 112.0/59$

All: 2.993 ± 0.880 $\chi^2/\text{NDF}: 197.1/114$

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: 13889.808 $\pm$ 2.496 χ^2 /NDF: 4743955.2/34

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

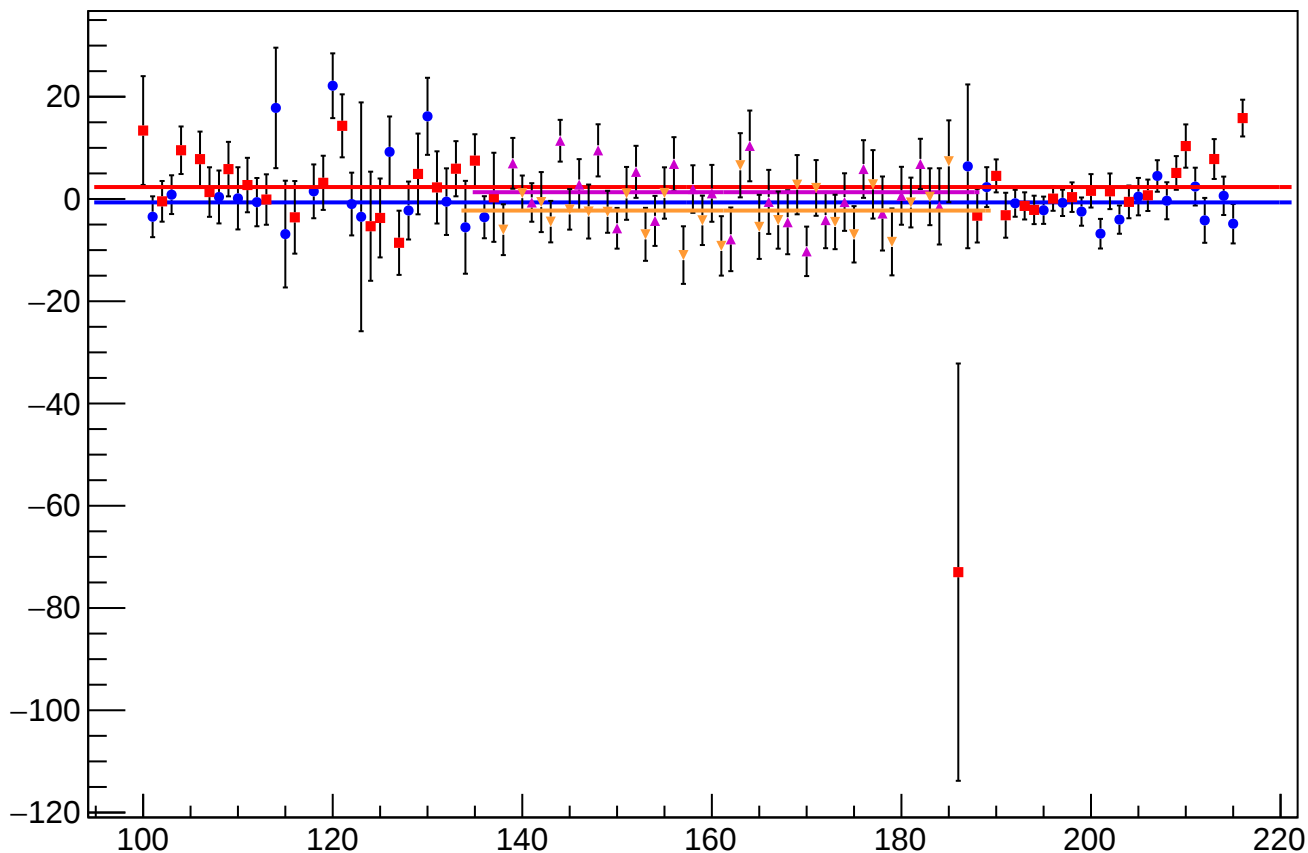
Right: 13436.229 $\pm$ 1.727 χ^2 /NDF: 9731064.9/66

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

Out: 6605.918 $\pm$ 0.870 χ^2 /NDF: 14720930.2/59

All: 6628.313 $\pm$ 0.622 χ^2 /NDF: 28155202.7/111

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: 2.336 ± 0.710 χ^2/NDF : 50.0/34

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

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

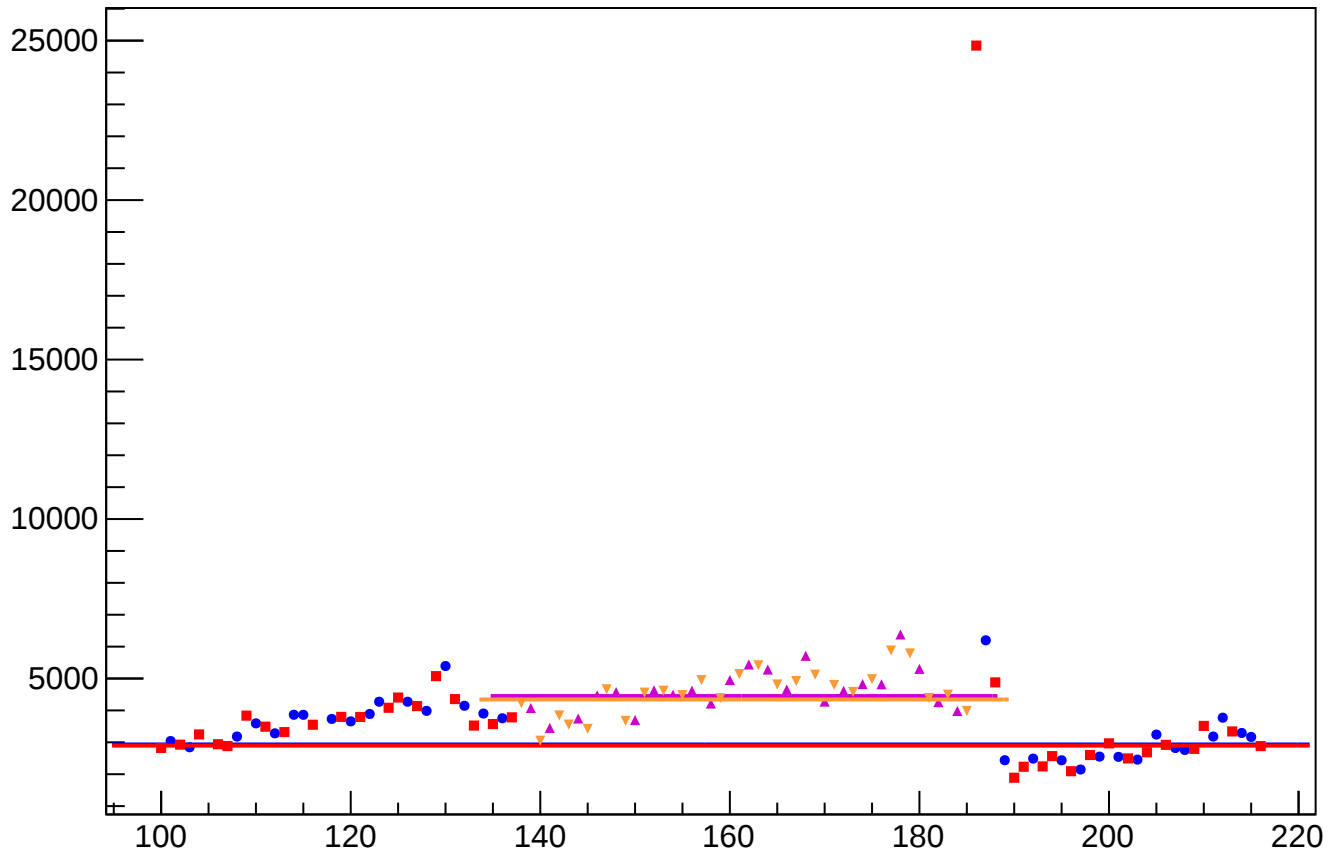
Right: 0.861 ± 0.506 χ^2/NDF : 96.4/66

In: -0.052 ± 0.601 χ^2/NDF : 70.6/54

Out: 0.855 ± 0.585 χ^2/NDF : 79.0/59

All: 0.414 ± 0.419 χ^2/NDF : 150.7/114

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2931.839+/-0.511 χ^2/NDF : 1416382.5/31

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

Right Out: 2896.034+/-0.502 χ^2/NDF : 2338217.2/34

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

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

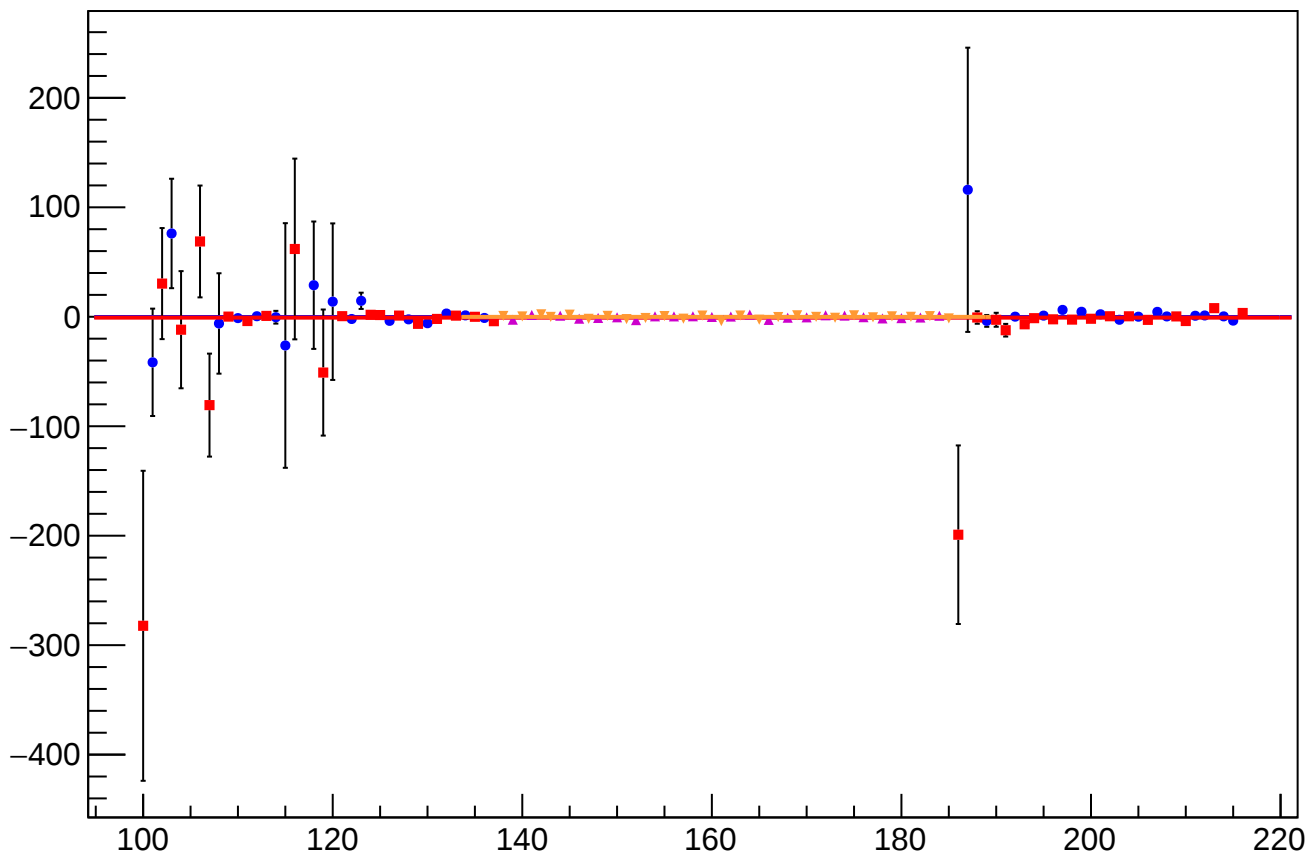
Right: 2913.626+/-0.358 χ^2/NDF : 3757099.4/66

In: 3399.858+/-0.425 χ^2/NDF : 4833186.2/54

Out: 3361.835+/-0.413 χ^2/NDF : 6005266.5/59

All: 3380.326+/-0.296 χ^2/NDF : 10842568.0/117

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: -0.779 ± 0.535 χ^2/NDF : 49.6/34

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

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

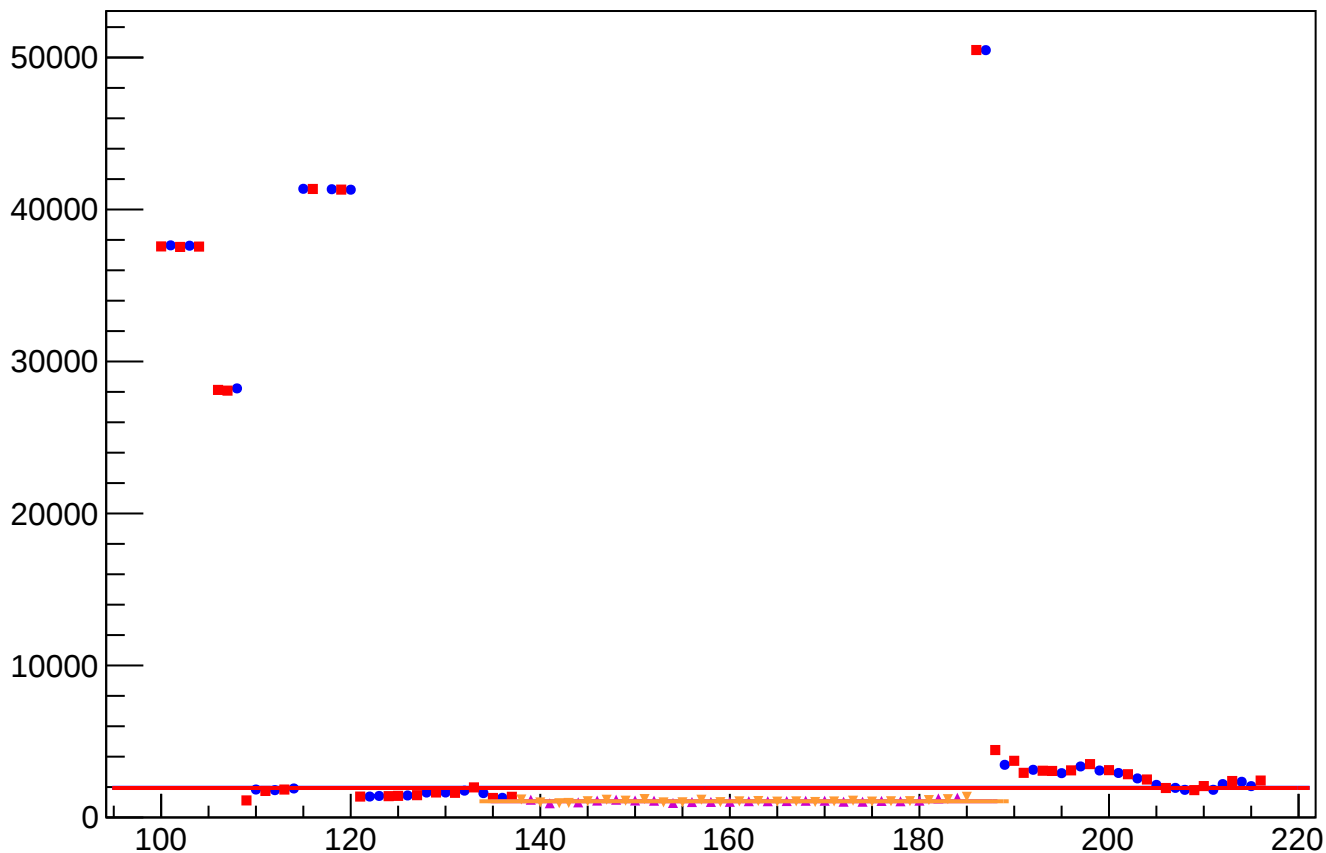
Right: -0.506 ± 0.375 χ^2/NDF : 84.1/66

In: -0.256 ± 0.231 χ^2/NDF : 61.2/54

Out: -0.214 ± 0.226 χ^2/NDF : 85.4/59

All: -0.234 ± 0.161 χ^2/NDF : 146.6/114

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: 1937.528 $\pm$ 0.378 χ^2 /NDF: 8468301.8/34

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

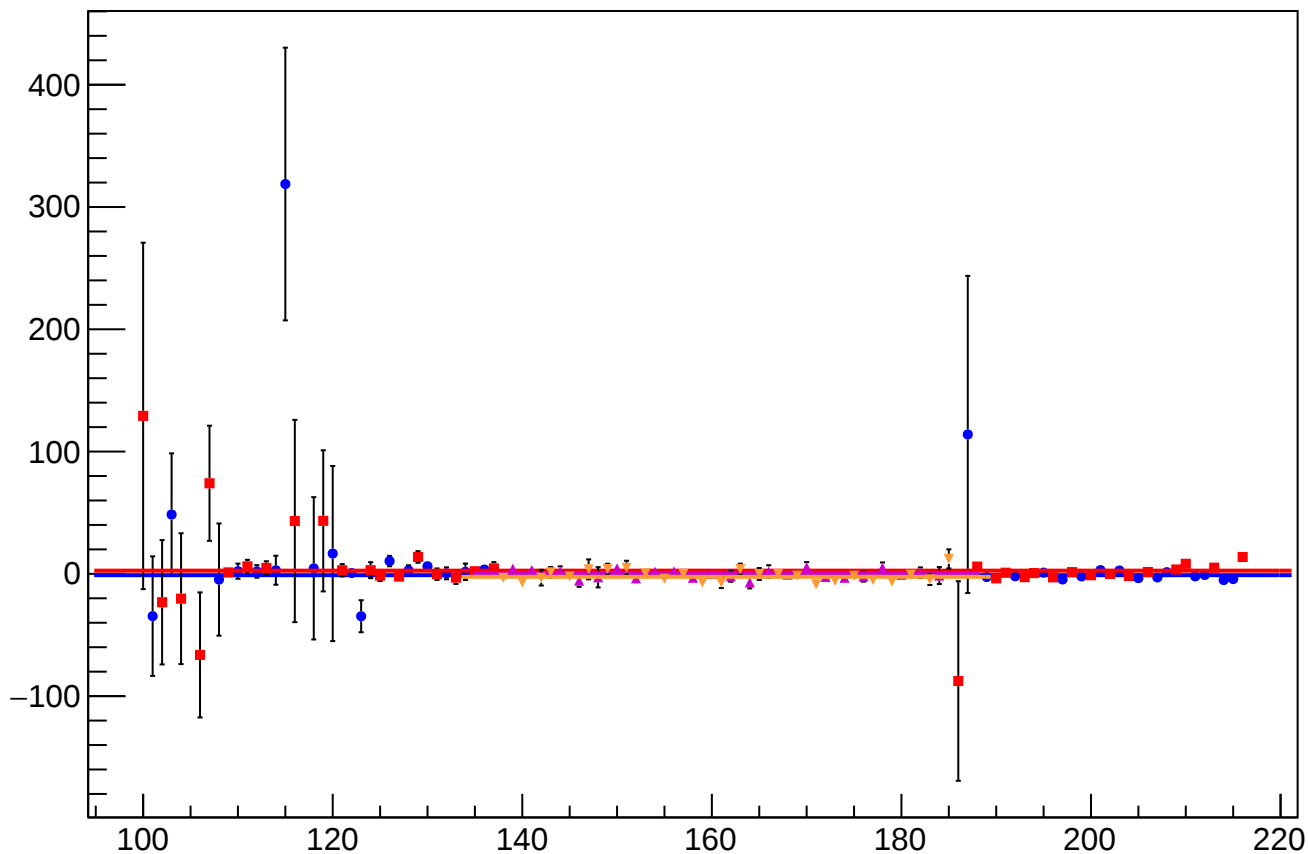
Right: 1945.103 $\pm$ 0.265 χ^2 /NDF: 15471566.3/66

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

Out: 1220.361 $\pm$ 0.160 χ^2 /NDF:13035904.8/59

All: 1228.450 $\pm$ 0.114 χ^2 /NDF: 24788609.8/116

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: 2.613 ± 0.483 χ^2/NDF : 95.0/34

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

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

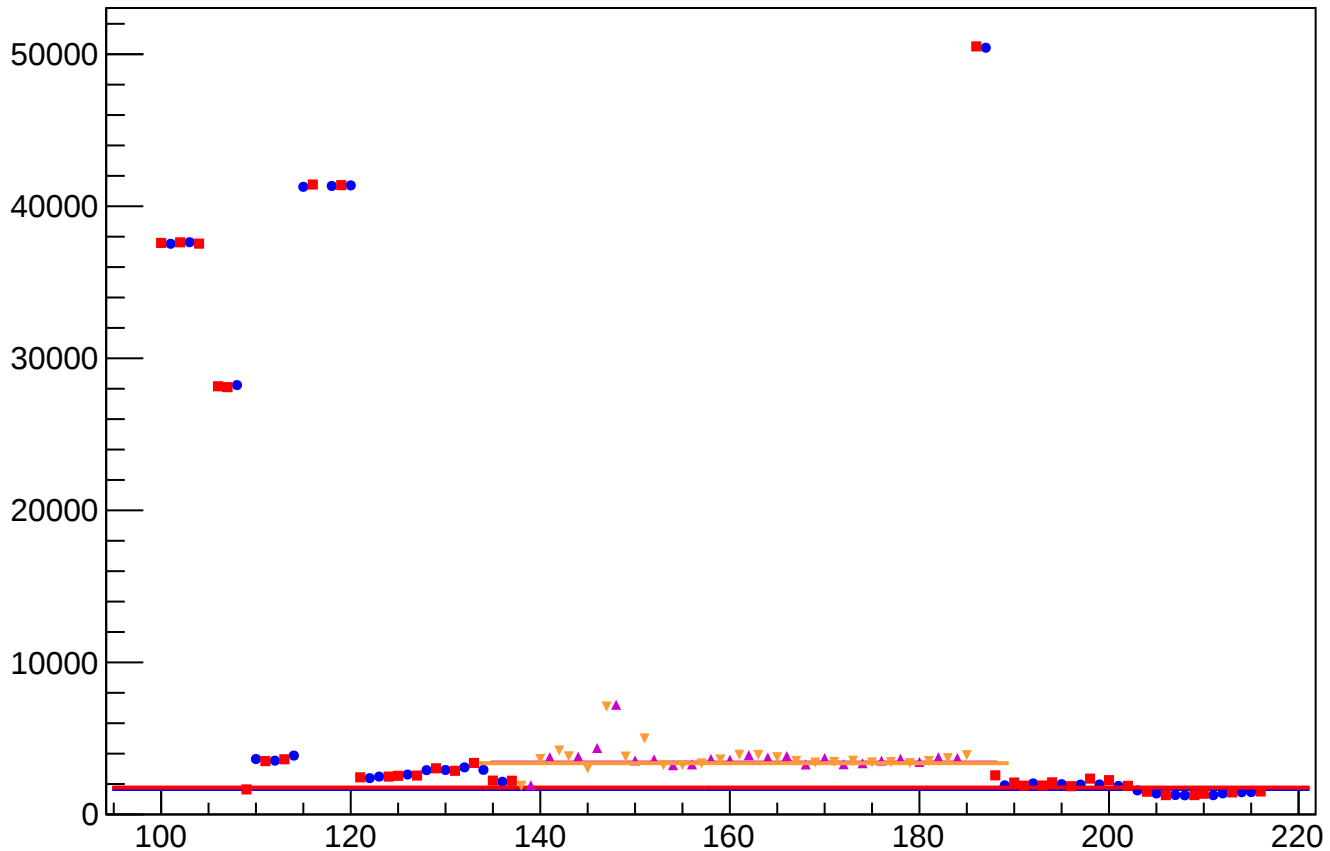
Right: 0.646 ± 0.331 χ^2/NDF : 187.5/66

In: -0.740 ± 0.399 χ^2/NDF : 79.5/54

Out: 1.294 ± 0.415 χ^2/NDF : 144.7/59

All: 0.238 ± 0.288 χ^2/NDF : 236.6/114

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1676.310 $\pm$ 0.321 χ^2/NDF : 7104849.3/31

Left Out: 3372.958 $\pm$ 0.573 χ^2/NDF : 1656864.7/24

Right Out: 1769.066 $\pm$ 0.341 χ^2/NDF : 7580004.6/34

Left In: 3411.924 $\pm$ 0.596 χ^2/NDF : 1434523.7/22

Left: 3391.680 $\pm$ 0.413 χ^2/NDF : 3093609.1/47

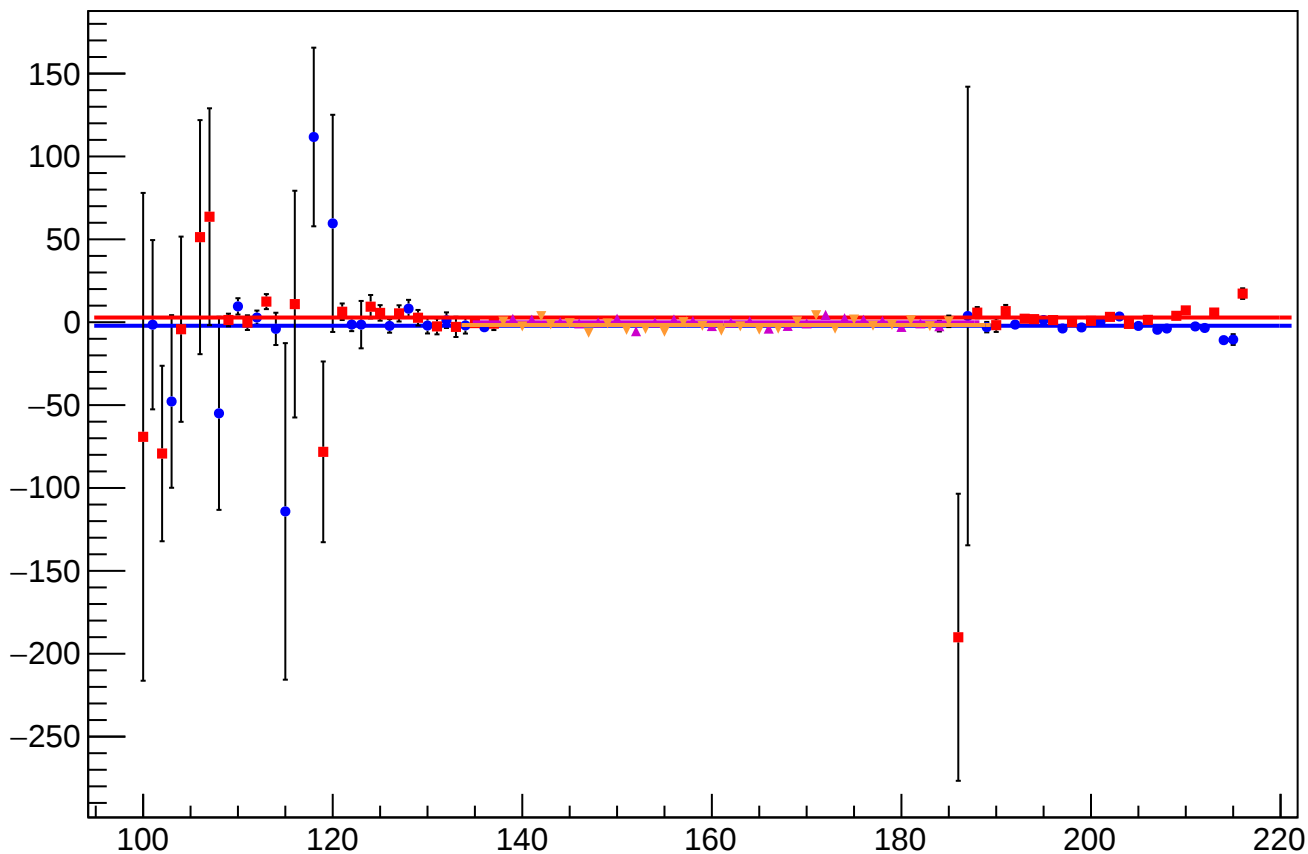
Right: 1719.795 $\pm$ 0.234 χ^2/NDF : 14724046.5/66

In: 2066.219 $\pm$ 0.282 χ^2/NDF : 15114882.6/54

Out: 2189.260 $\pm$ 0.293 χ^2/NDF : 15016417.7/59

All: 2125.416 $\pm$ 0.203 χ^2/NDF : 30222579.0/100

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: 2.834 ± 0.588 $\chi^2/\text{NDF}: 56.0/34$

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

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

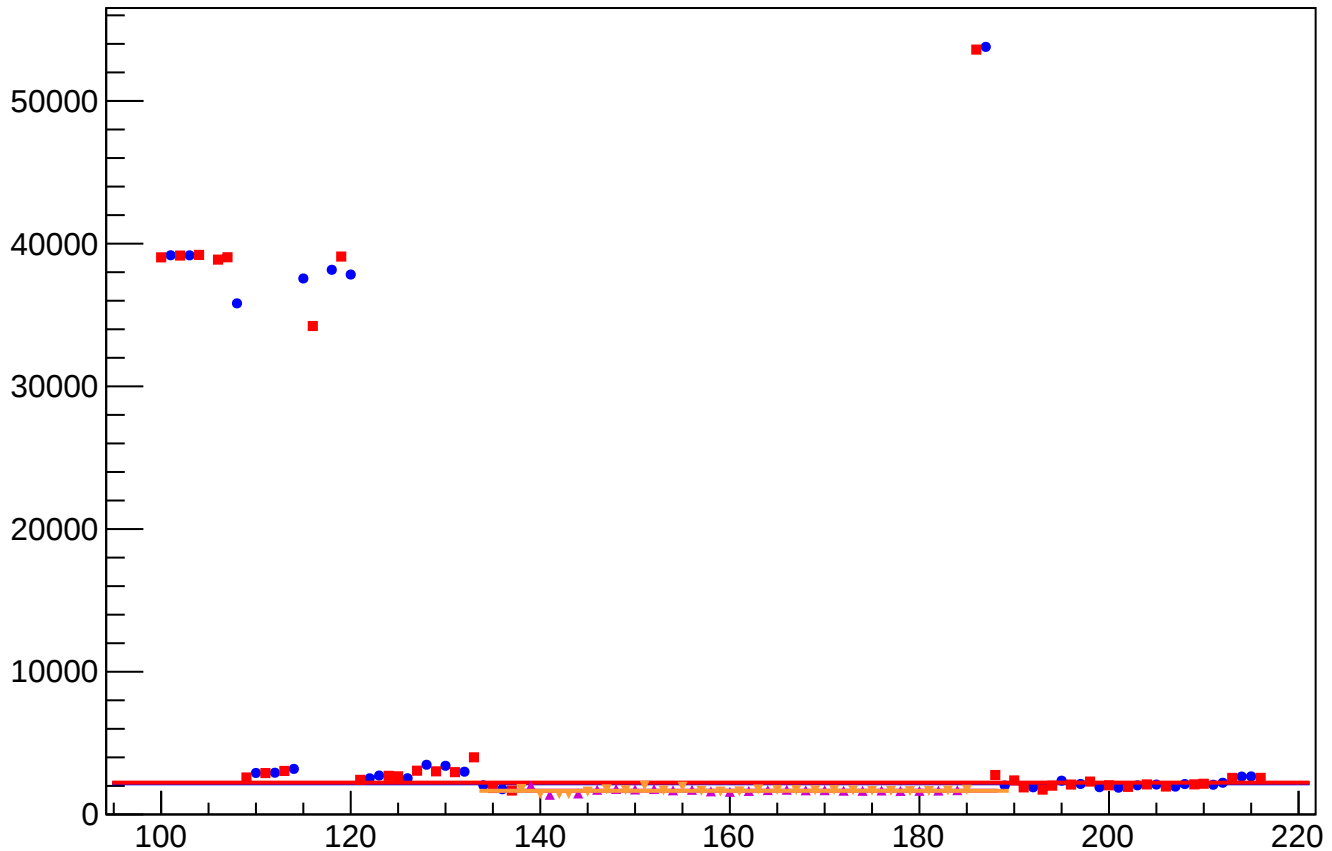
Right: 0.294 ± 0.411 $\chi^2/\text{NDF}: 138.7/66$

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

Out: -0.306 ± 0.324 $\chi^2/\text{NDF}: 142.5/59$

All: -0.523 ± 0.231 $\chi^2/\text{NDF}: 226.5/114$

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: 2230.395+/-0.416 χ^2/NDF : 6116895.5/34

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

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

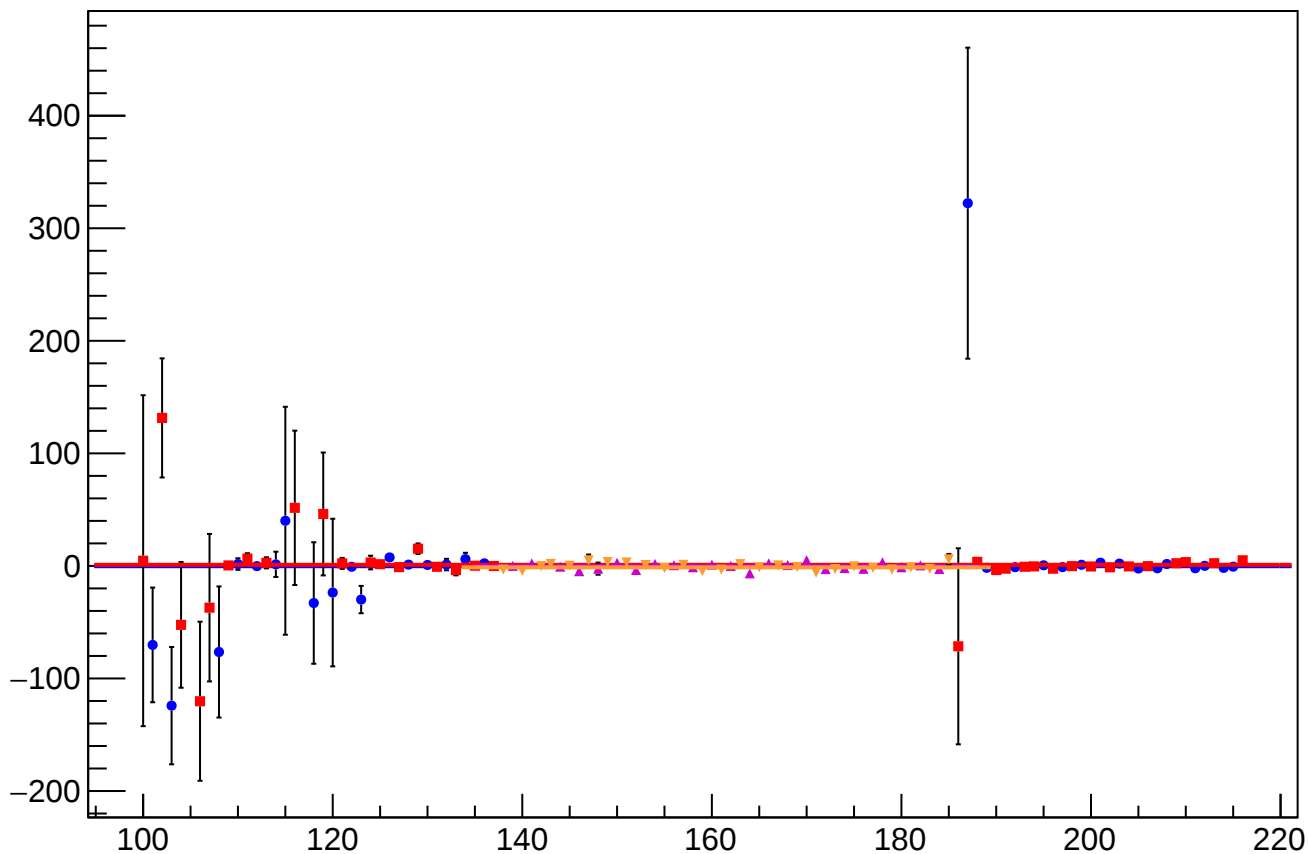
Right: 2206.149+/-0.291 χ^2/NDF : 11685476.8/66

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

Out: 1831.437+/-0.229 χ^2/NDF : 7661007.8/59

All: 1832.441+/-0.163 χ^2/NDF : 14498723.6/119

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: 0.972 ± 0.403 $\chi^2/\text{NDF}: 54.2/34$

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

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

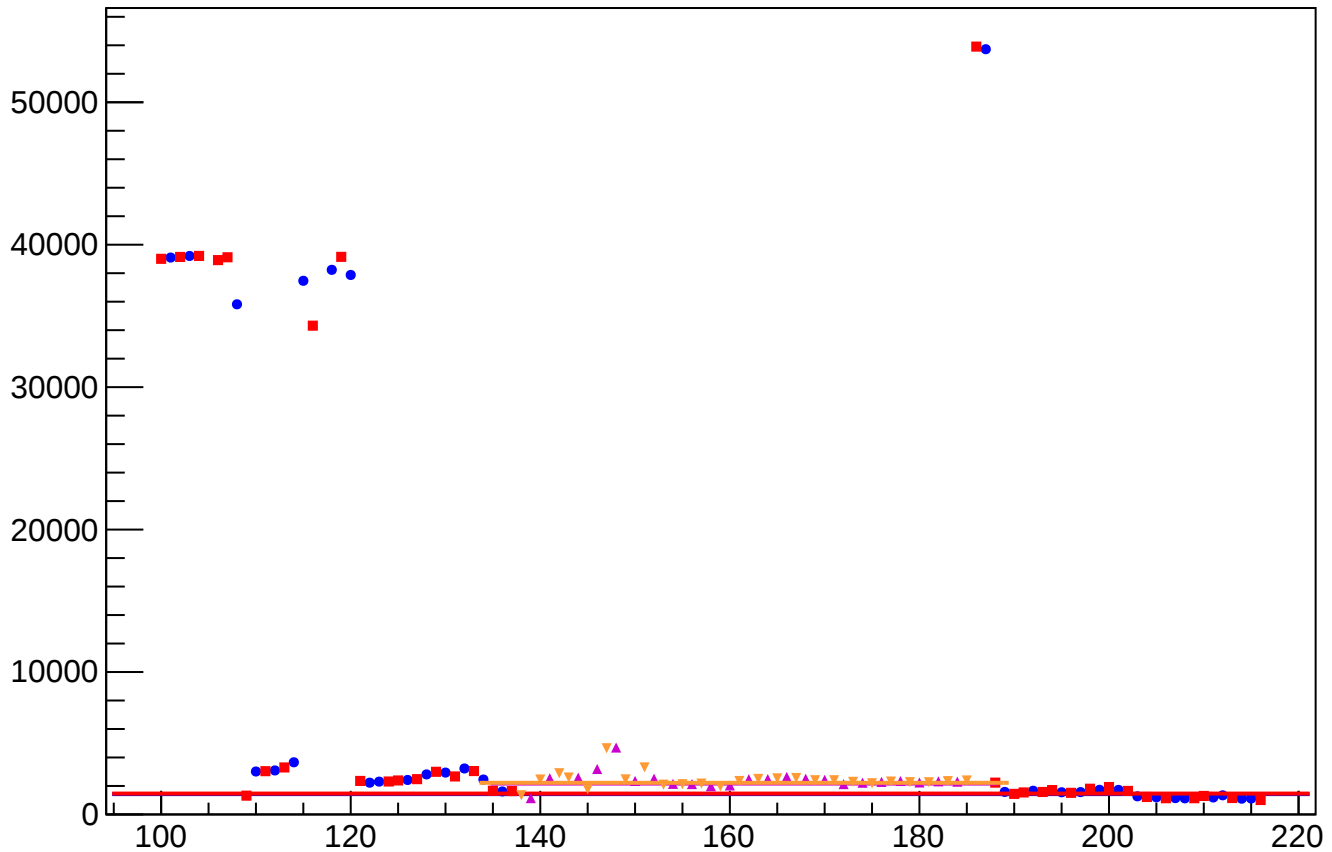
Right: 0.334 ± 0.279 $\chi^2/\text{NDF}: 104.2/66$

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

Out: 0.168 ± 0.322 $\chi^2/\text{NDF}: 87.0/59$

All: -0.021 ± 0.225 $\chi^2/\text{NDF}: 152.1/114$

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: 1465.662 $\pm$ 0.285 χ^2 /NDF: 7922655.8/34

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

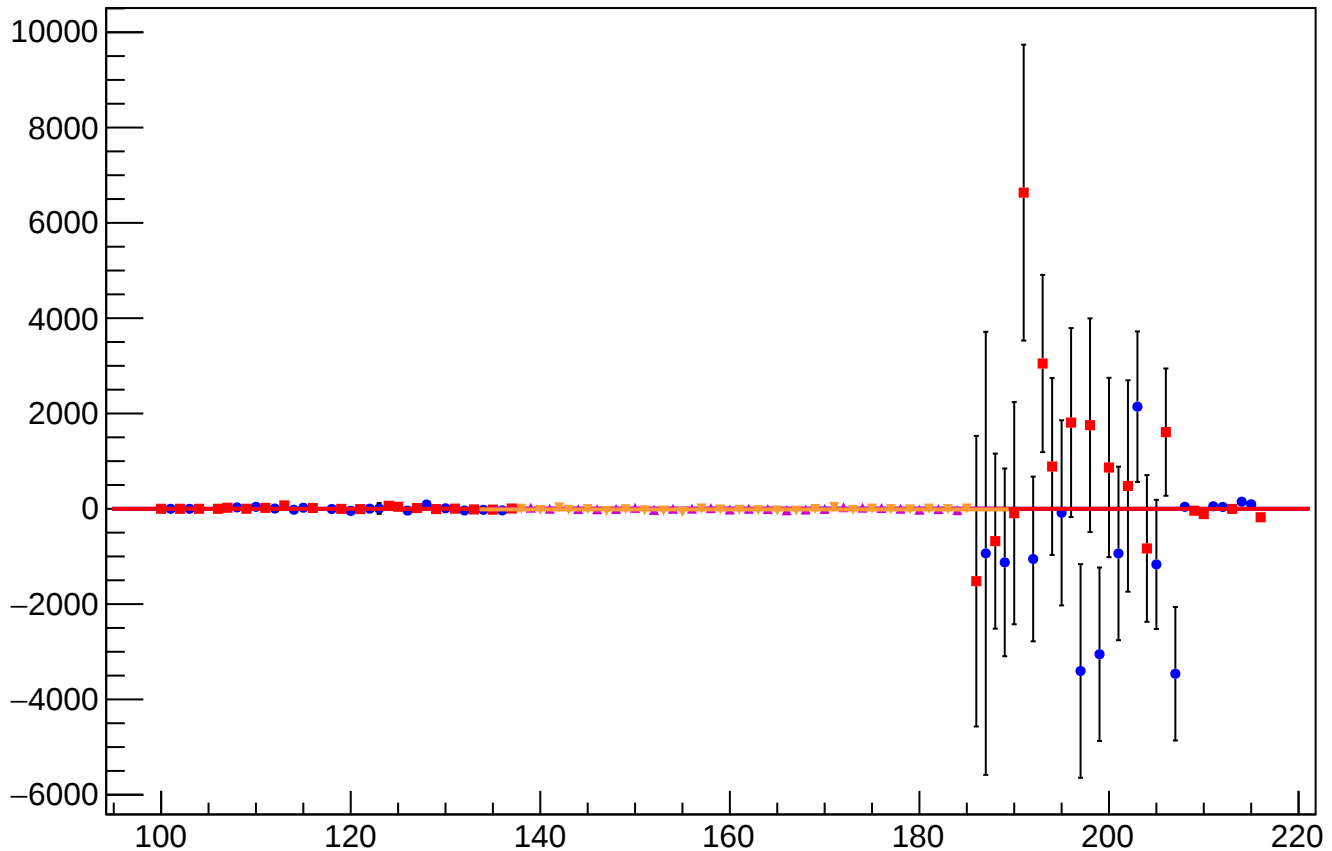
Right: 1446.358 $\pm$ 0.198 χ^2 /NDF: 15214372.5/66

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

Out: 1739.162 $\pm$ 0.227 χ^2 /NDF:11897167.8/59

All: 1708.937 $\pm$ 0.159 χ^2 /NDF: 23666255.2/117

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 47.1/31$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 45.5/34$

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

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

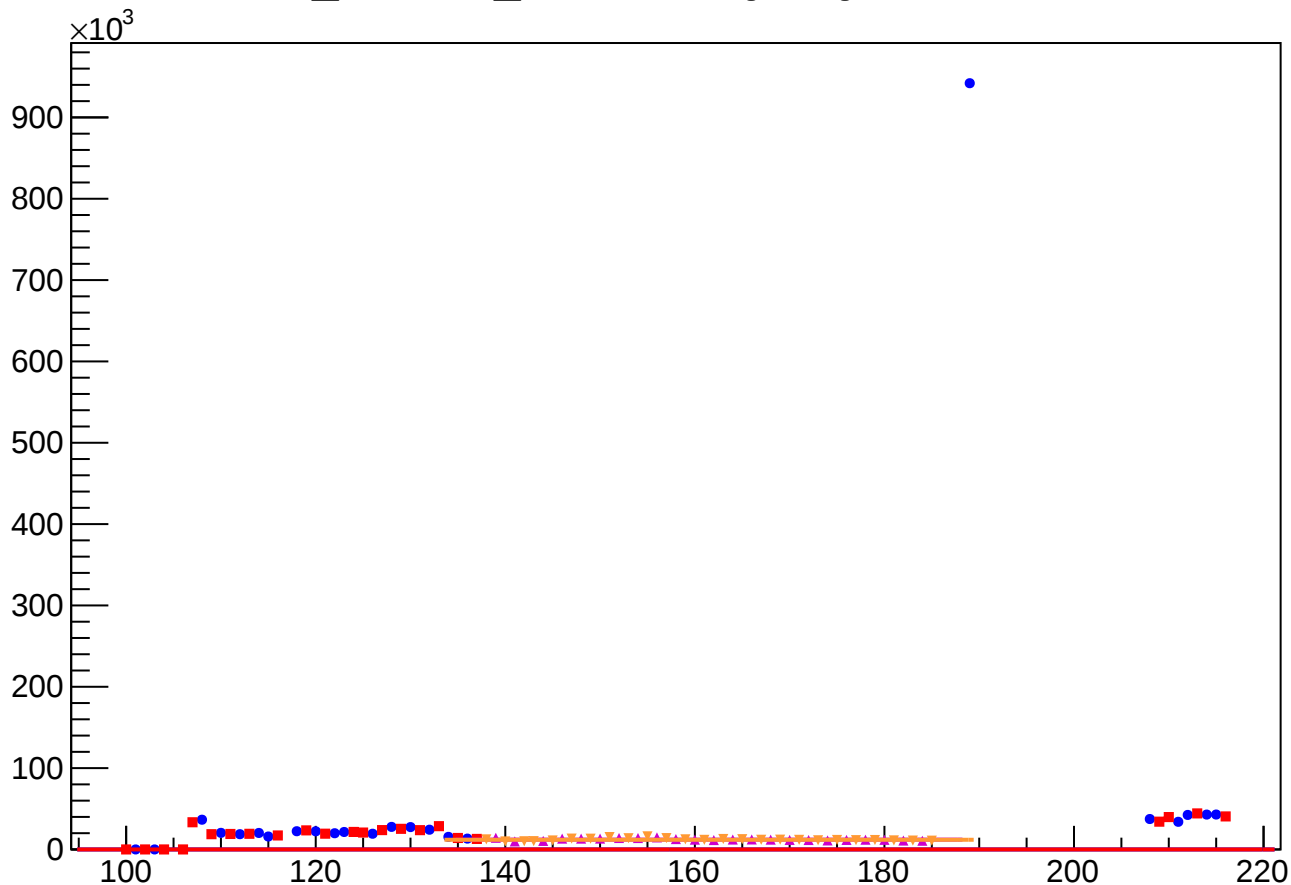
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 93.2/66$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 76.1/54$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 127.4/59$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 204.0/114$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.668 $\pm$ 0.012 χ^2 /NDF: 18158797.2/22

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

Right Out: 18.330 $\pm$ 0.011 χ^2 /NDF: 16665492.7/22

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

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

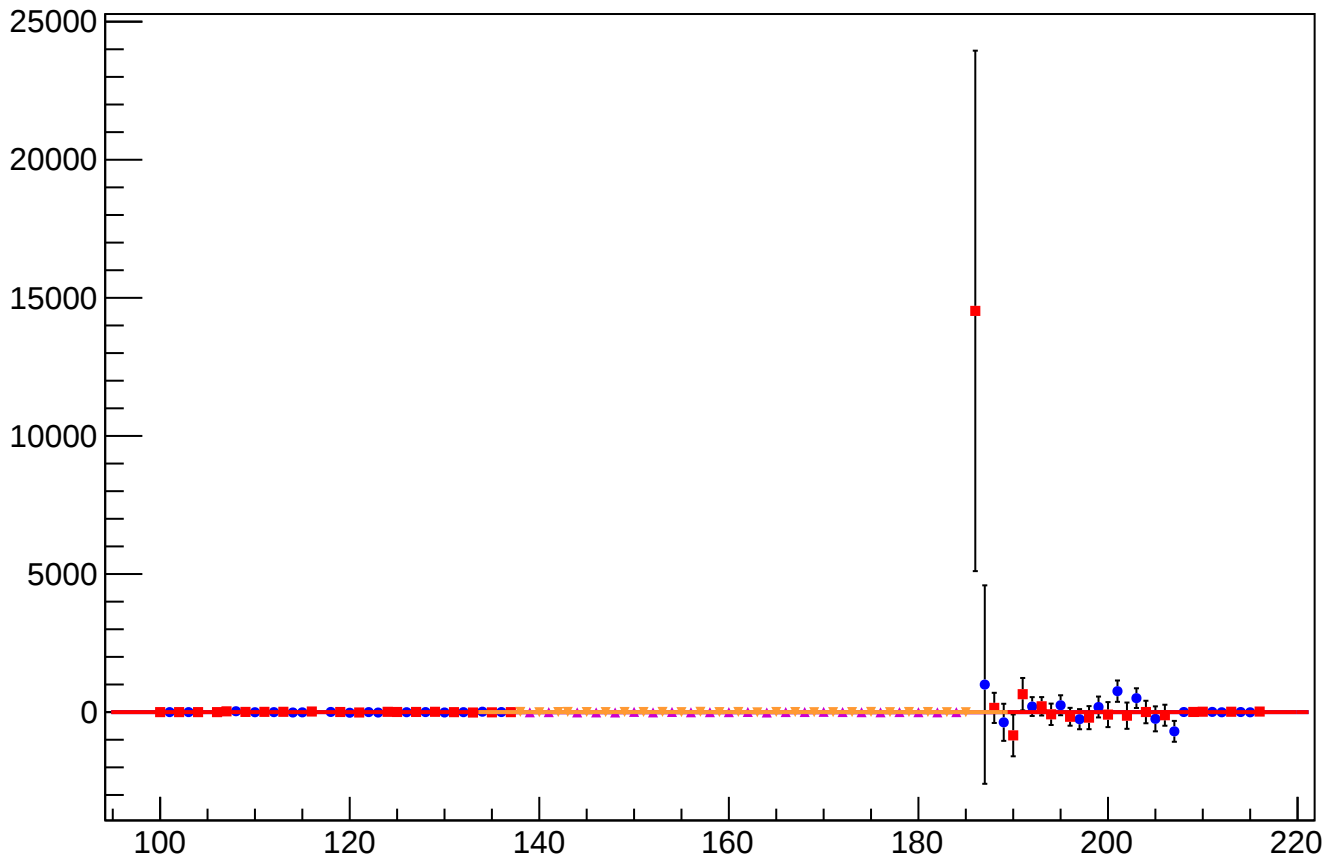
Right: 18.486 $\pm$ 0.008 χ^2 /NDF: 34824700.0/45

In: 19.093 $\pm$ 0.012 χ^2 /NDF: 52640964.7/45

Out: 18.721 $\pm$ 0.011 χ^2 /NDF: 53207227.0/47

All: 18.893 $\pm$ 0.008 χ^2 /NDF: 105848687.5/93

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: 44.0/34

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

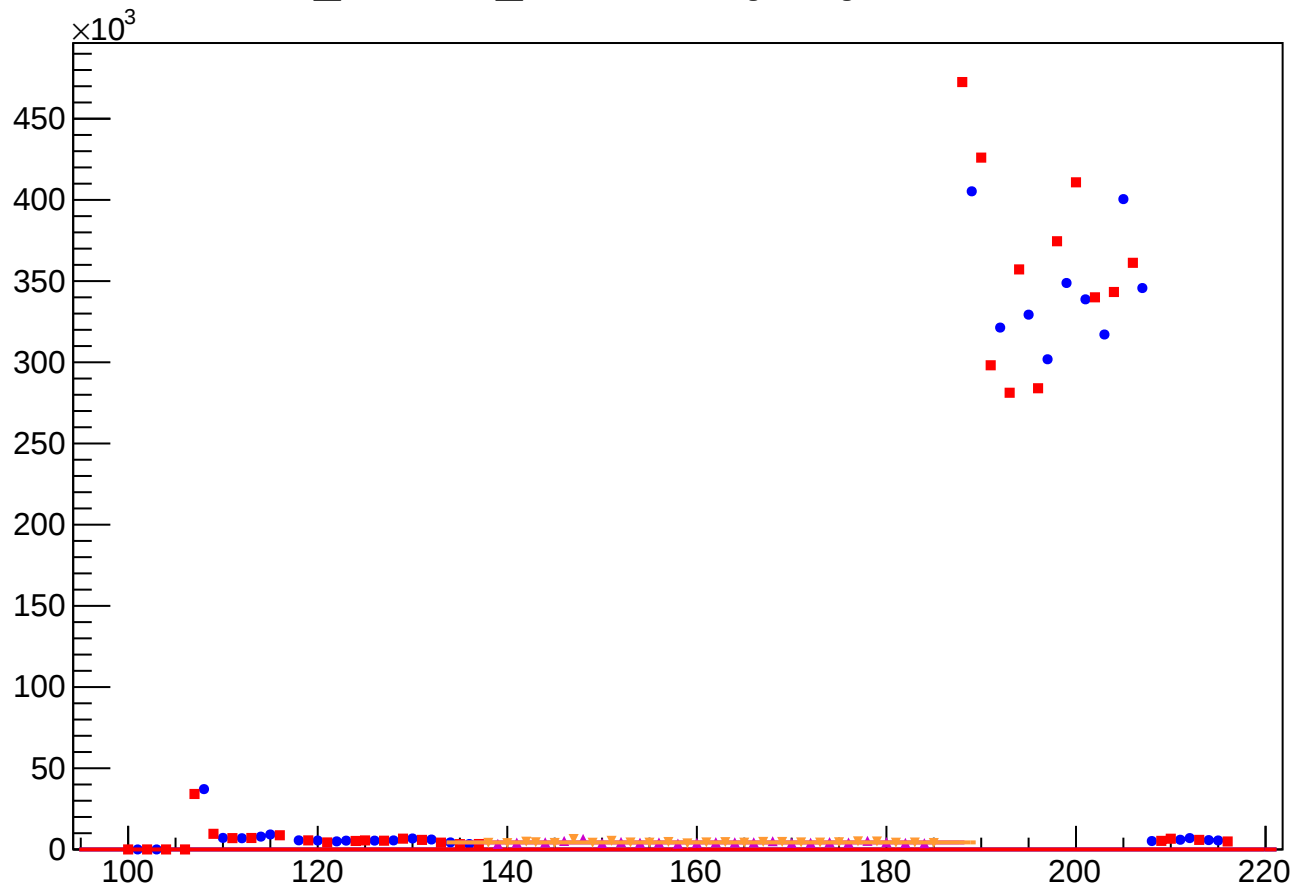
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 72.9/66

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

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:65.0/59

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 130.3/114

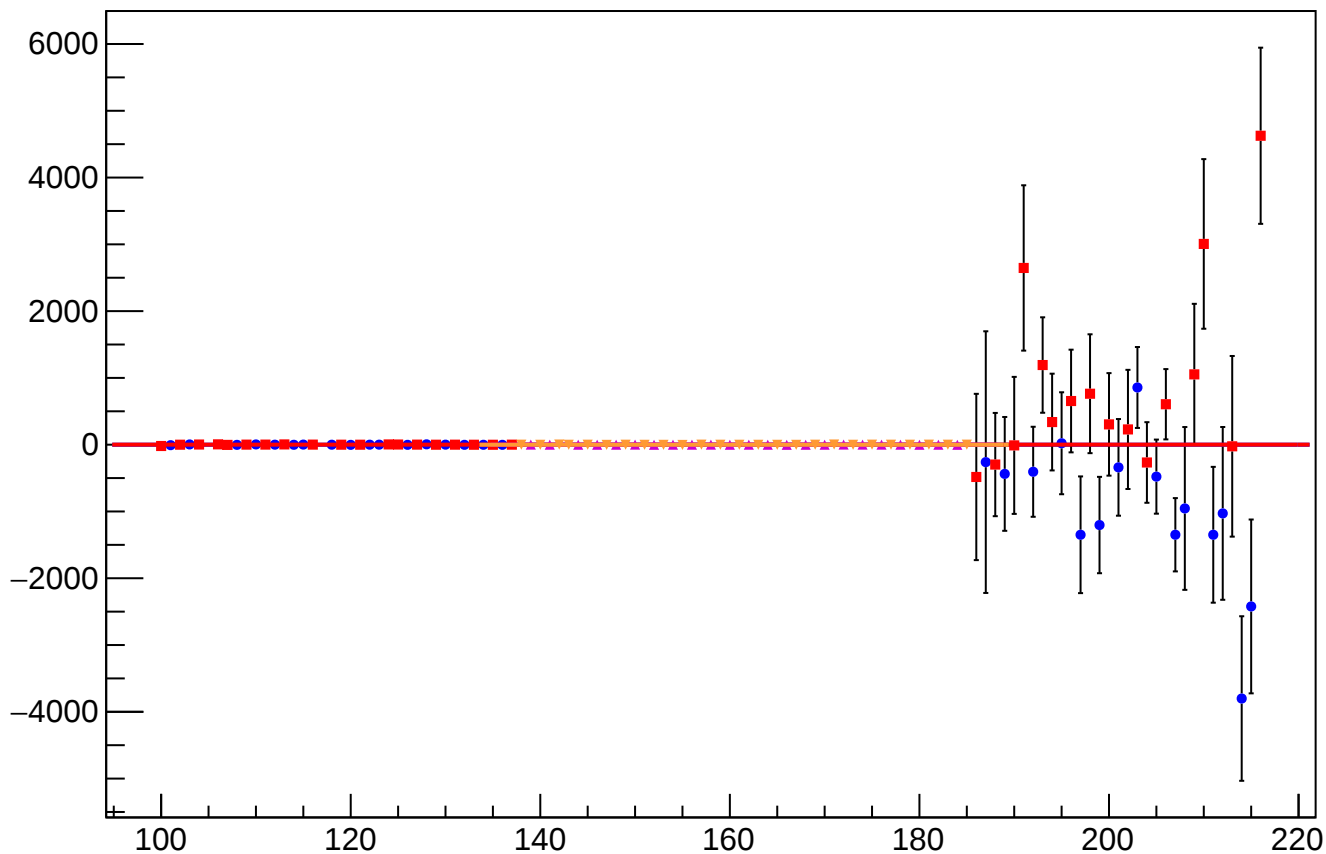
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.991 ± 0.007 χ^2/NDF : 31612864.8/30
 Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24
 Right Out: 9.893 ± 0.006 χ^2/NDF : 31439126.9/33
 Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47
 Right: 9.939 ± 0.004 χ^2/NDF : 63052112.6/64
 In: 10.323 ± 0.007 χ^2/NDF : 65943797.9/53
 Out: 10.203 ± 0.006 χ^2/NDF : 67867662.8/58
 All: 10.259 ± 0.004 χ^2/NDF : 133811639.5/112

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.717 ± 0.483 χ^2/NDF : 53.5/31

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

Right Out: 0.641 ± 0.501 χ^2/NDF : 43.0/34

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

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

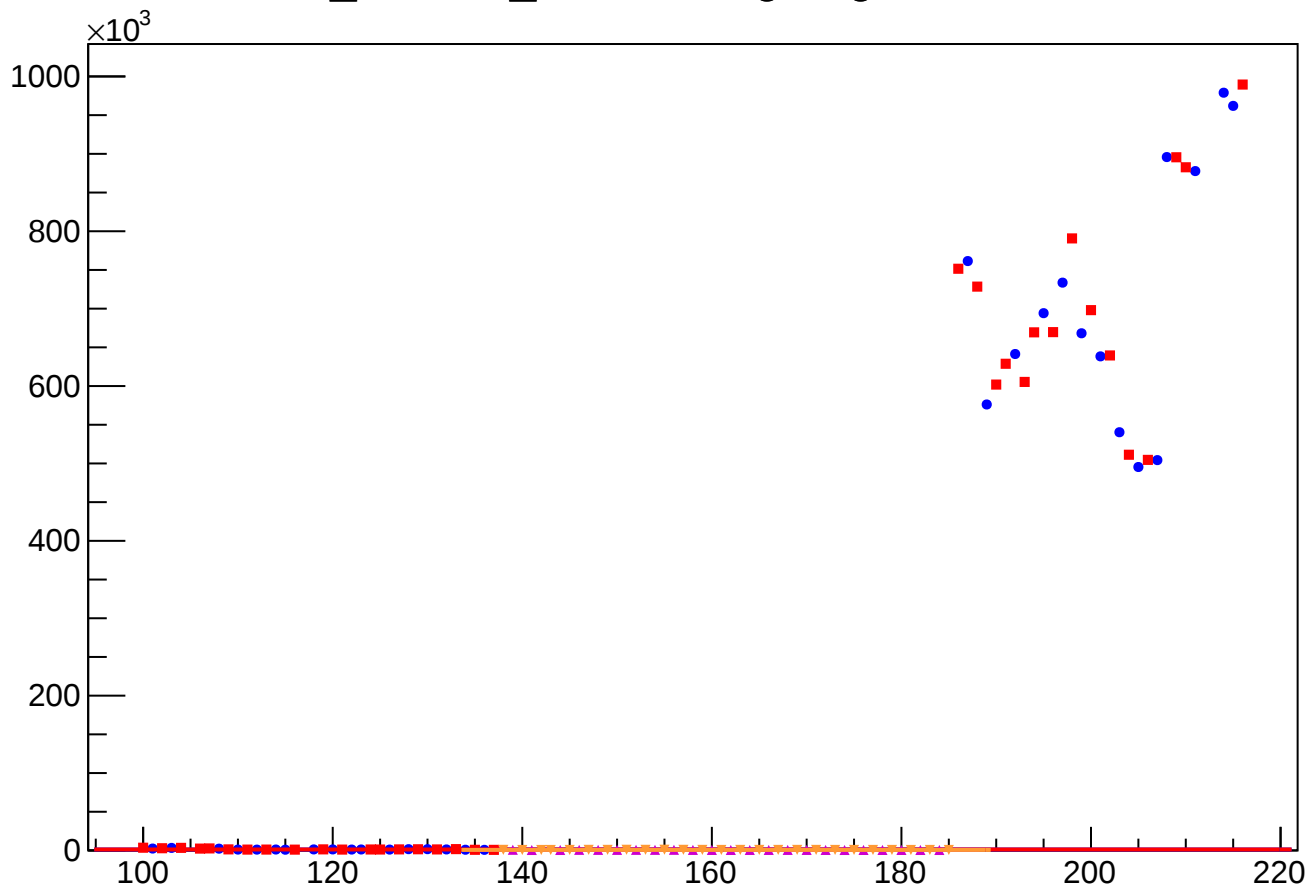
Right: -0.063 ± 0.348 χ^2/NDF : 100.3/66

In: -0.063 ± 0.161 χ^2/NDF : 85.0/54

Out: -0.637 ± 0.156 χ^2/NDF : 108.7/59

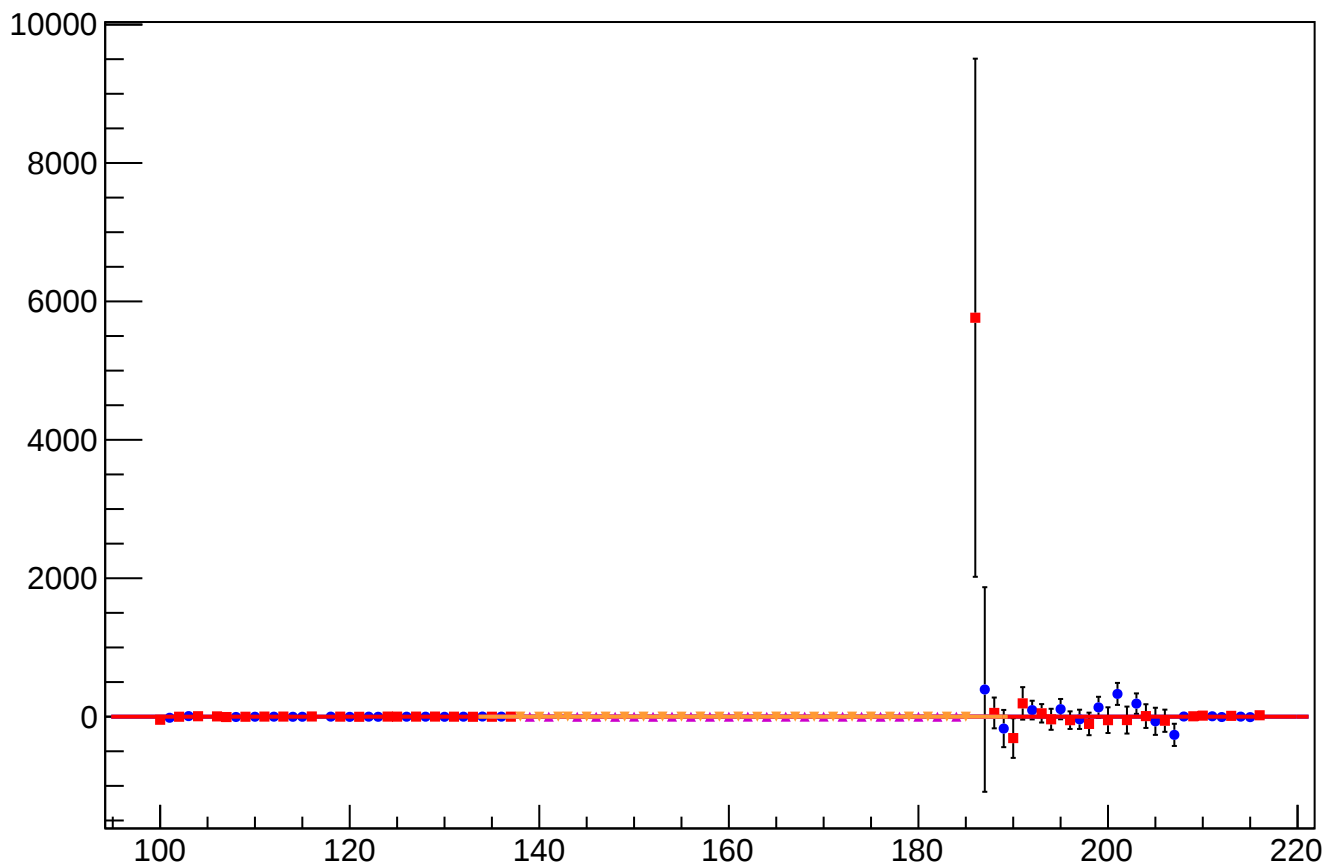
All: -0.359 ± 0.112 χ^2/NDF : 200.2/114

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: 1209.245 $\pm$ 0.246 χ^2/NDF : 37700625.7/64
 Right Out: 1251.273 $\pm$ 0.355 χ^2/NDF : 19111562.9/33 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: 754.489 $\pm$ 0.111 χ^2/NDF : 21678551.2/58
 All: 756.401 $\pm$ 0.079 χ^2/NDF : 42207880.1/11

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: -0.163 ± 0.263 χ^2/NDF : 52.0/34

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

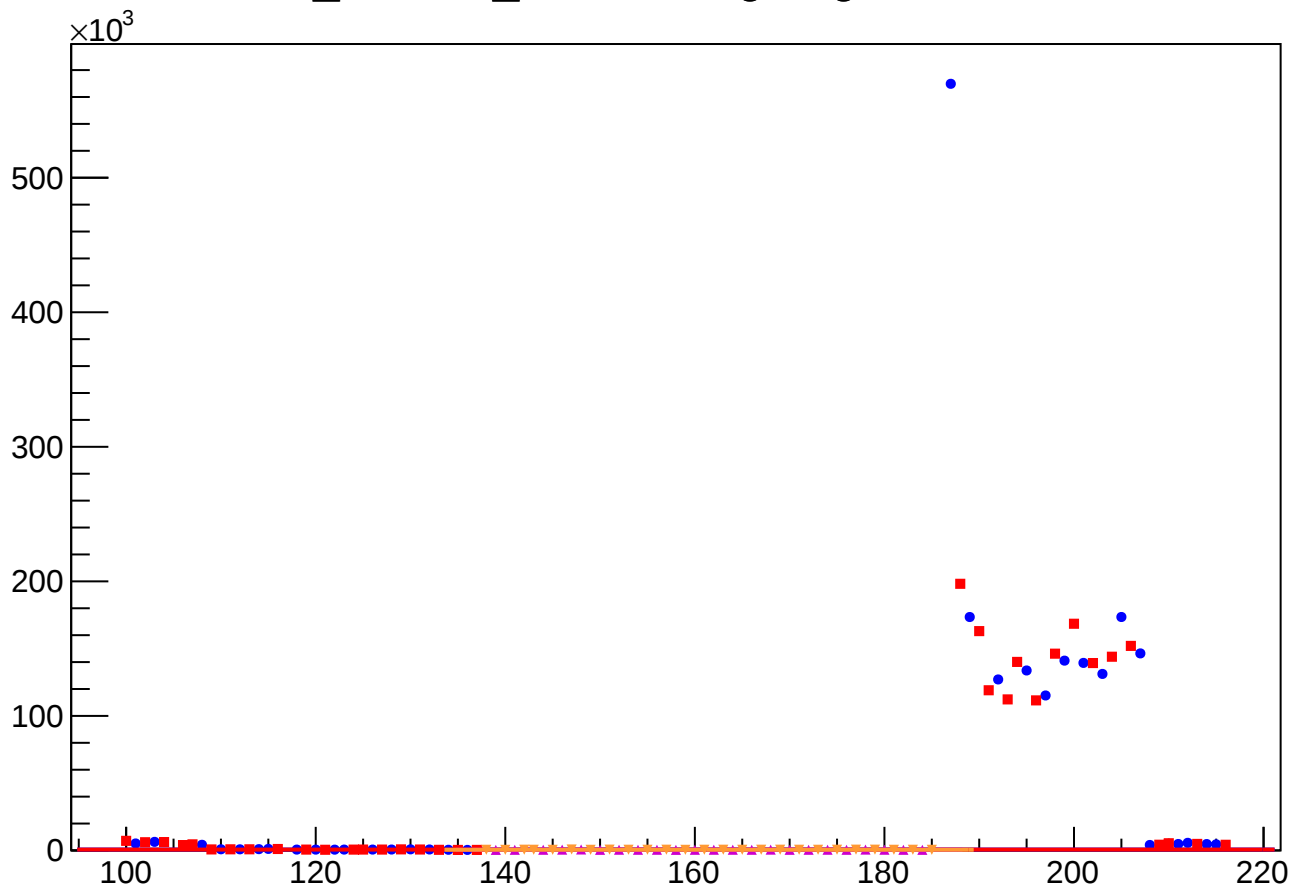
Right: -0.113 ± 0.188 χ^2/NDF : 85.5/66

In: -0.114 ± 0.114 χ^2/NDF : 68.4/54

Out: 0.162 ± 0.111 χ^2/NDF : 71.9/59

All: 0.028 ± 0.080 χ^2/NDF : 143.3/114

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: 638.571+/-0.186 χ^2/NDF : 22515206.0/33

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

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

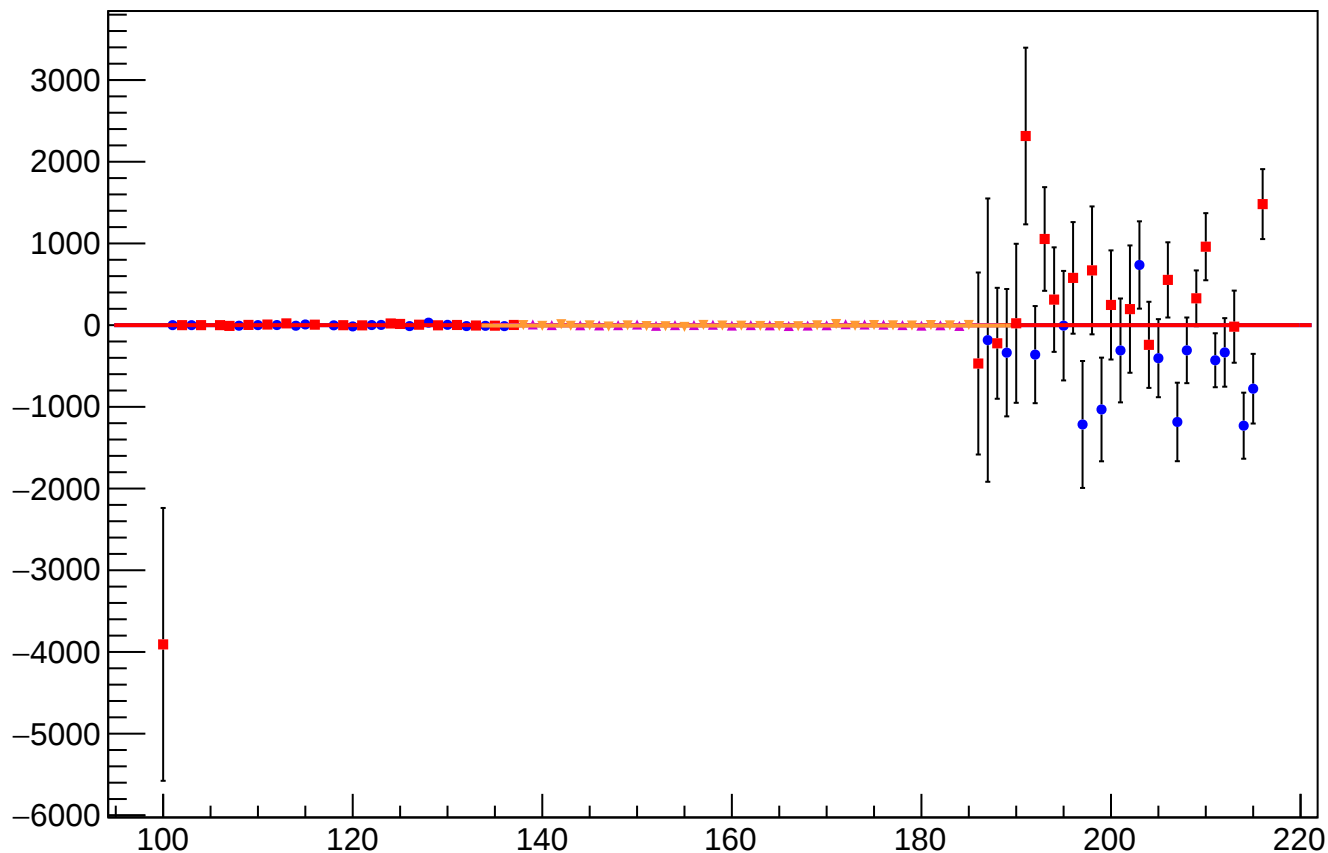
Right: 648.496+/-0.133 χ^2/NDF : 44780867.6/65

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

Out: 542.963+/-0.079 χ^2/NDF : 23166728.9/58

All: 544.352+/-0.056 χ^2/NDF : 46290747.2/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 46.1/31

Left Out: -4.480 $\pm$ 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 47.0/34

Left In: 0.183 $\pm$ 0.994 χ^2/NDF : 29.5/22

Left: -2.236 $\pm$ 0.689 χ^2/NDF : 99.3/47

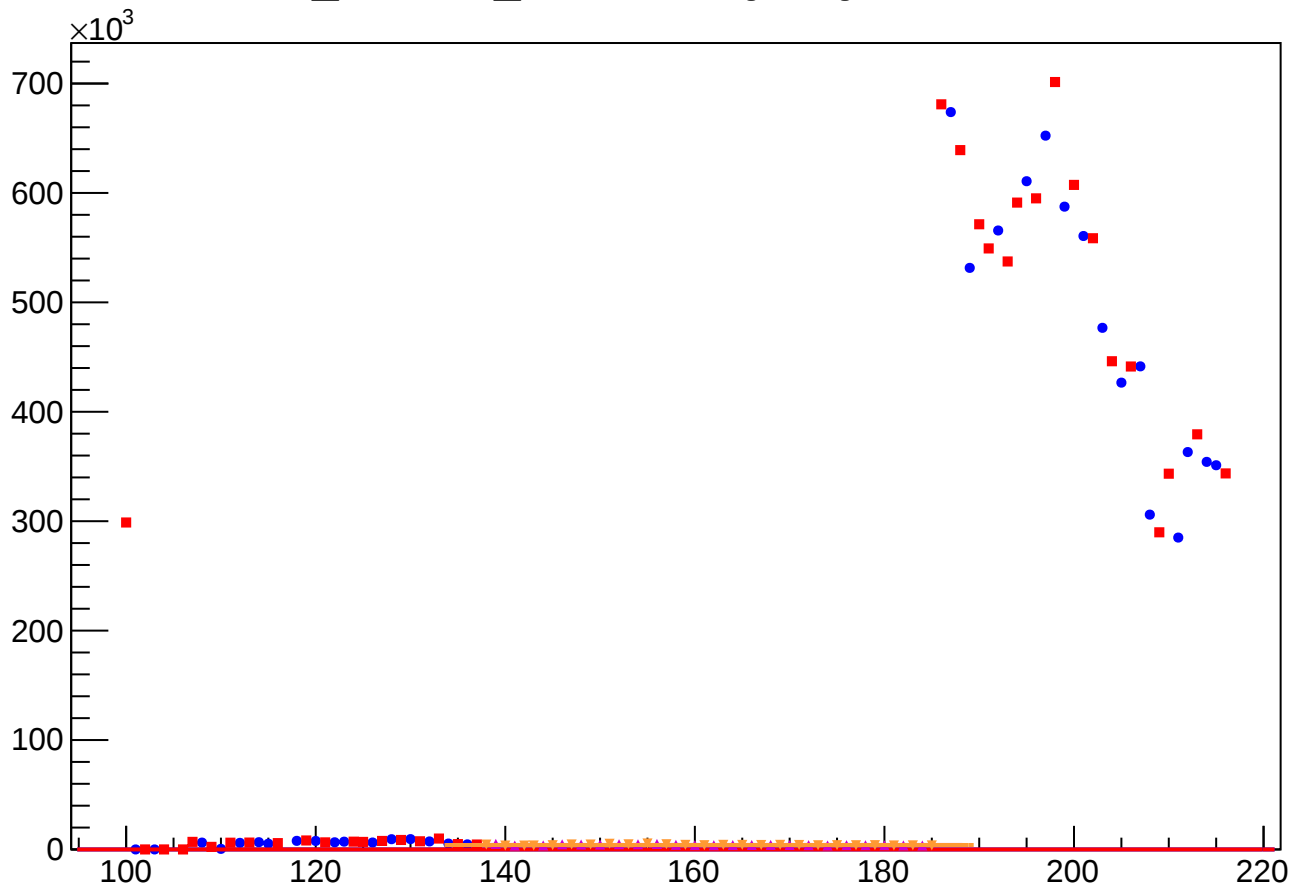
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 95.9/66

In: -0.022 $\pm$ 0.021 χ^2/NDF : 75.6/54

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 127.6/59

All: 0.003 $\pm$ 0.014 χ^2/NDF : 205.8/114

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.350+/-0.015 χ^2/NDF : 31757164.0/31

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

Right Out: 17.276+/-0.014 χ^2/NDF : 32297618.0/34

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

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

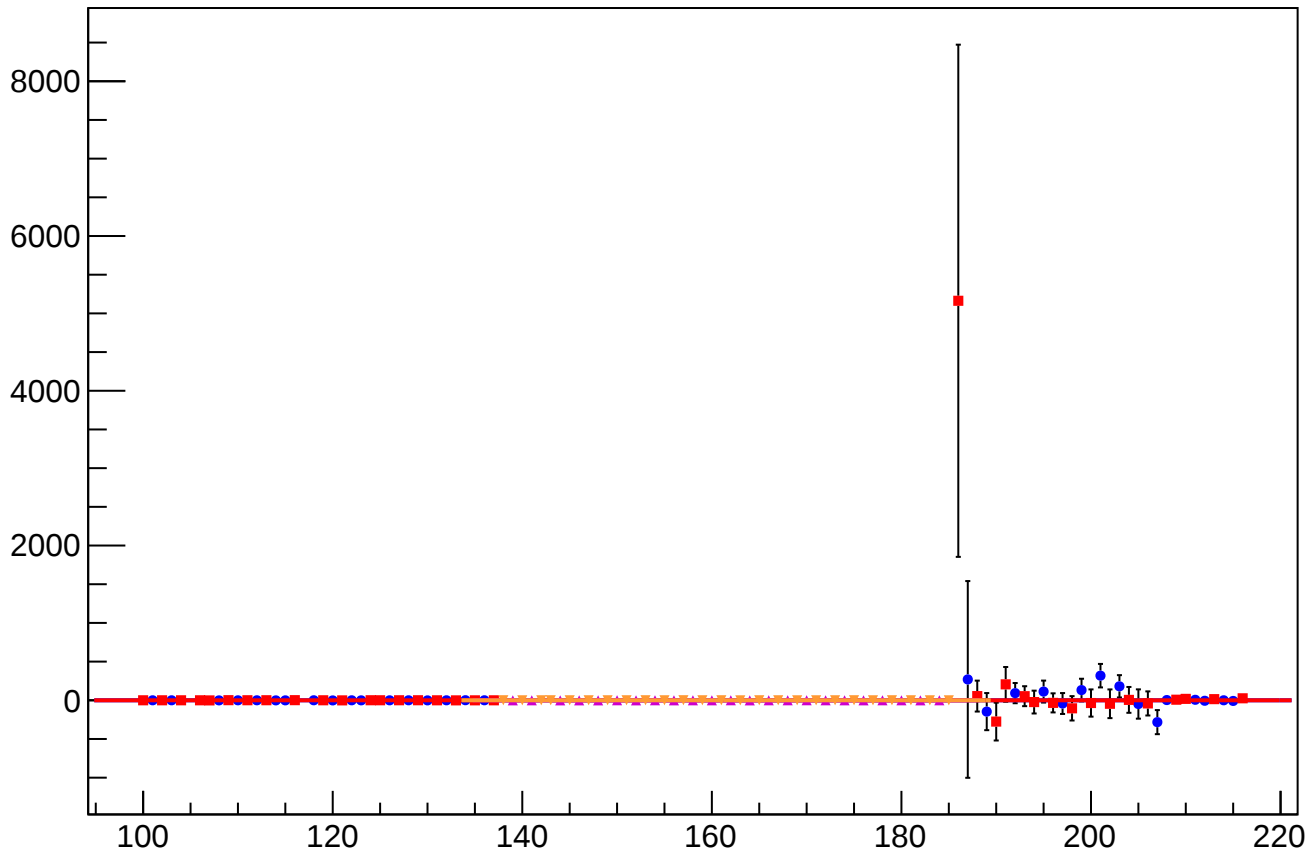
Right: 17.311+/-0.010 χ^2/NDF : 64054795.1/66

In: 19.141+/-0.015 χ^2/NDF : 66059528.0/54

Out: 19.008+/-0.014 χ^2/NDF : 68650520.4/59

All: 19.071+/-0.010 χ^2/NDF : 134710091.7/11

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 : 52.0/34

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

Left: 0.038 ± 0.055 χ^2/NDF : 56.3/47

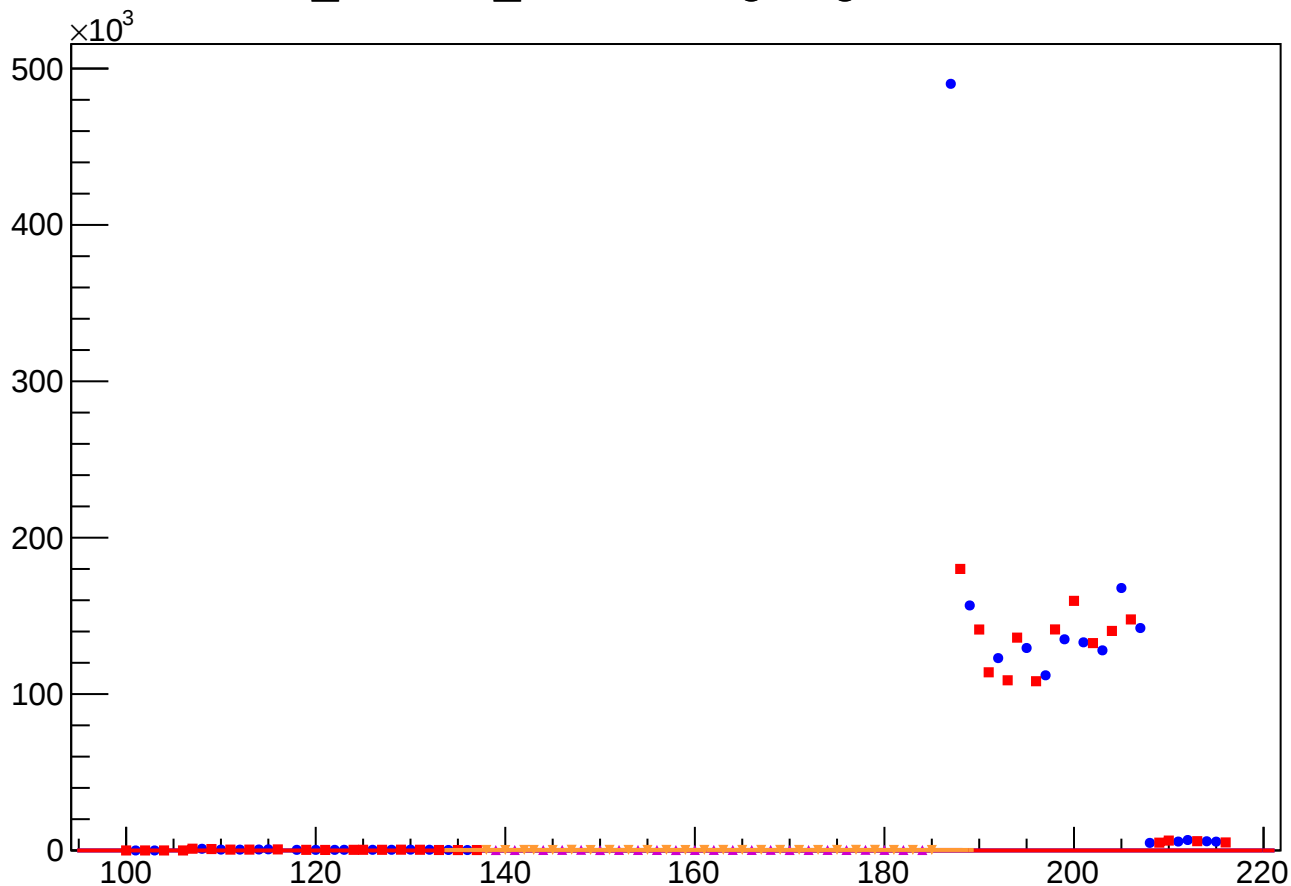
Right: -0.000 ± 0.001 χ^2/NDF : 80.8/66

In: 0.000 ± 0.002 χ^2/NDF : 64.3/54

Out: -0.001 ± 0.002 χ^2/NDF : 73.1/59

All: -0.000 ± 0.001 χ^2/NDF : 137.5/114

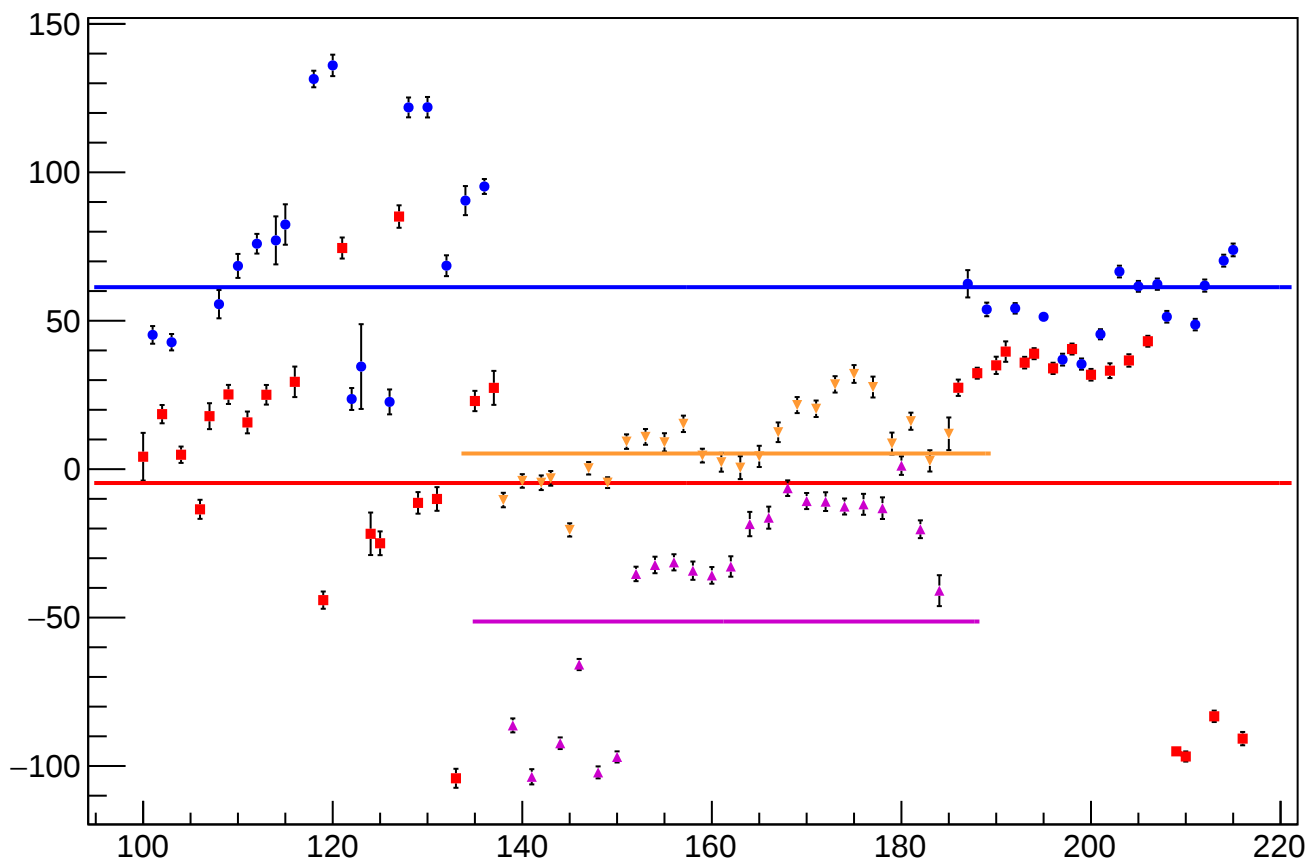
diff_cav4dY_rms vs Slug, Sign Corrected



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: 31231156.5/33
 Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47
 Right: 1.717 $\pm$ 0.001 χ^2 /NDF: 63249219.2/65
 In: 1.915 $\pm$ 0.001 χ^2 /NDF:66159449.6/54
 Out: 1.939 $\pm$ 0.001 χ^2 /NDF:67438228.8/58
 All: 1.927 $\pm$ 0.001 χ^2 /NDF: 133597817.2/113

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: -4.667 ± 0.427 $\chi^2/\text{NDF}: 17932.4/34$

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

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

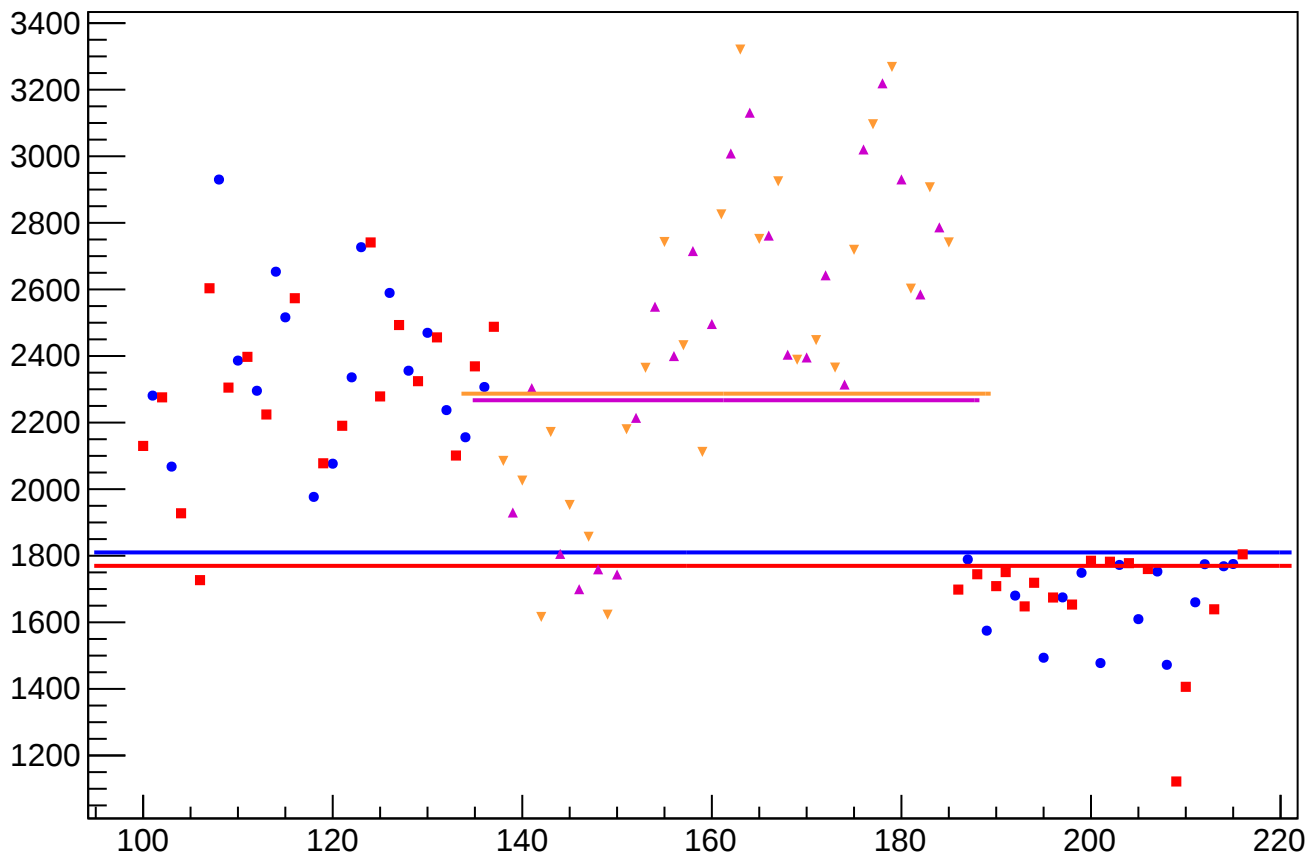
Right: 27.181 ± 0.307 $\chi^2/\text{NDF}: 32291.7/66$

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

Out: -0.878 ± 0.336 $\chi^2/\text{NDF}: 18695.2/59$

All: 8.223 ± 0.241 $\chi^2/\text{NDF}: 52319.9/114$

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: 1789.105 ± 0.217 χ^2/NDF : 2340815.7/66

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: 1769.633 ± 0.302

χ^2/NDF : 1357709.0/34

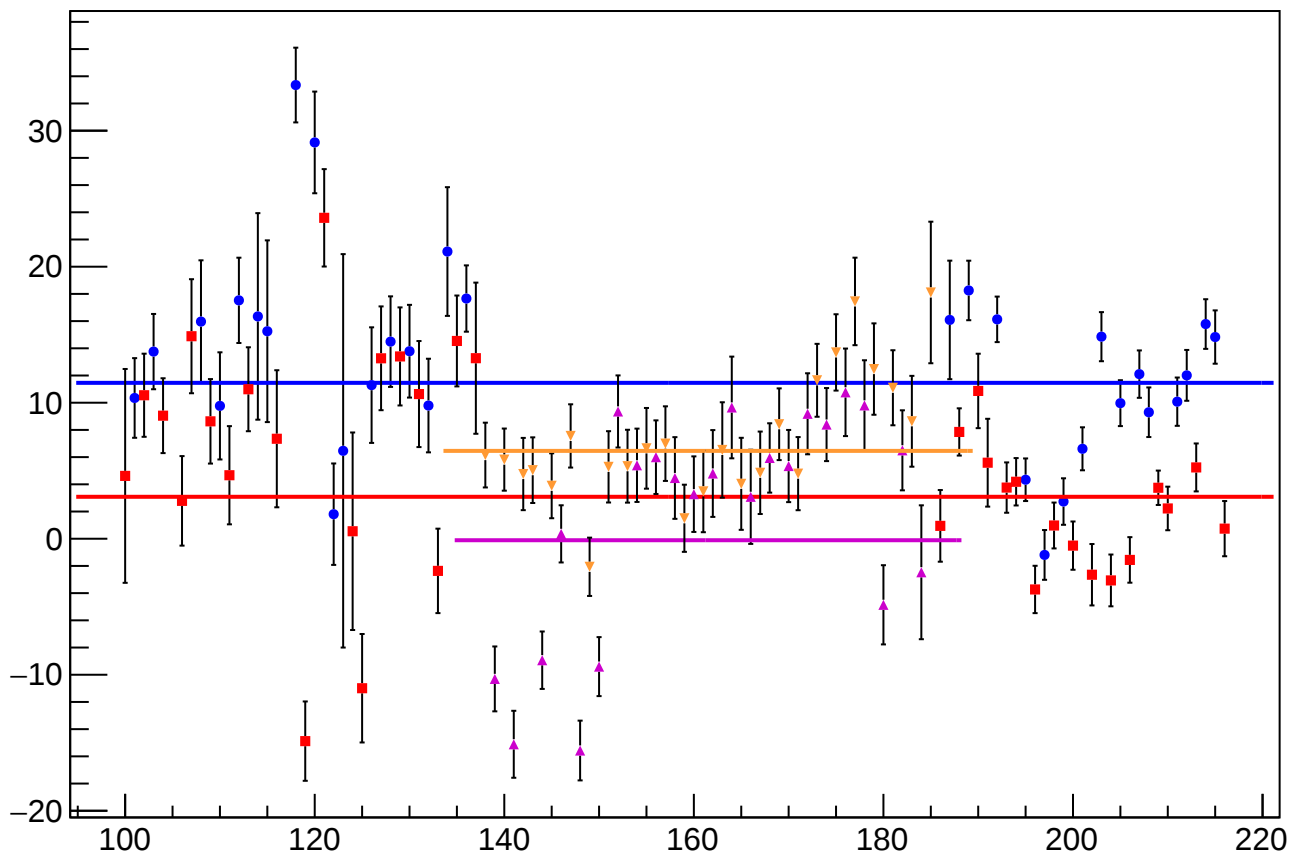
Out: 1966.760 ± 0.238 χ^2/NDF : 3836461.2/59

Left In: 2267.097 ± 0.395

χ^2/NDF : 1313364.4/22

All: 1976.135 ± 0.171 χ^2/NDF : 6951530.9/11

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.461 ± 0.414 $\chi^2/\text{NDF}: 249.0/31$

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

Right Out: 3.083 ± 0.402 $\chi^2/\text{NDF}: 216.3/34$

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

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

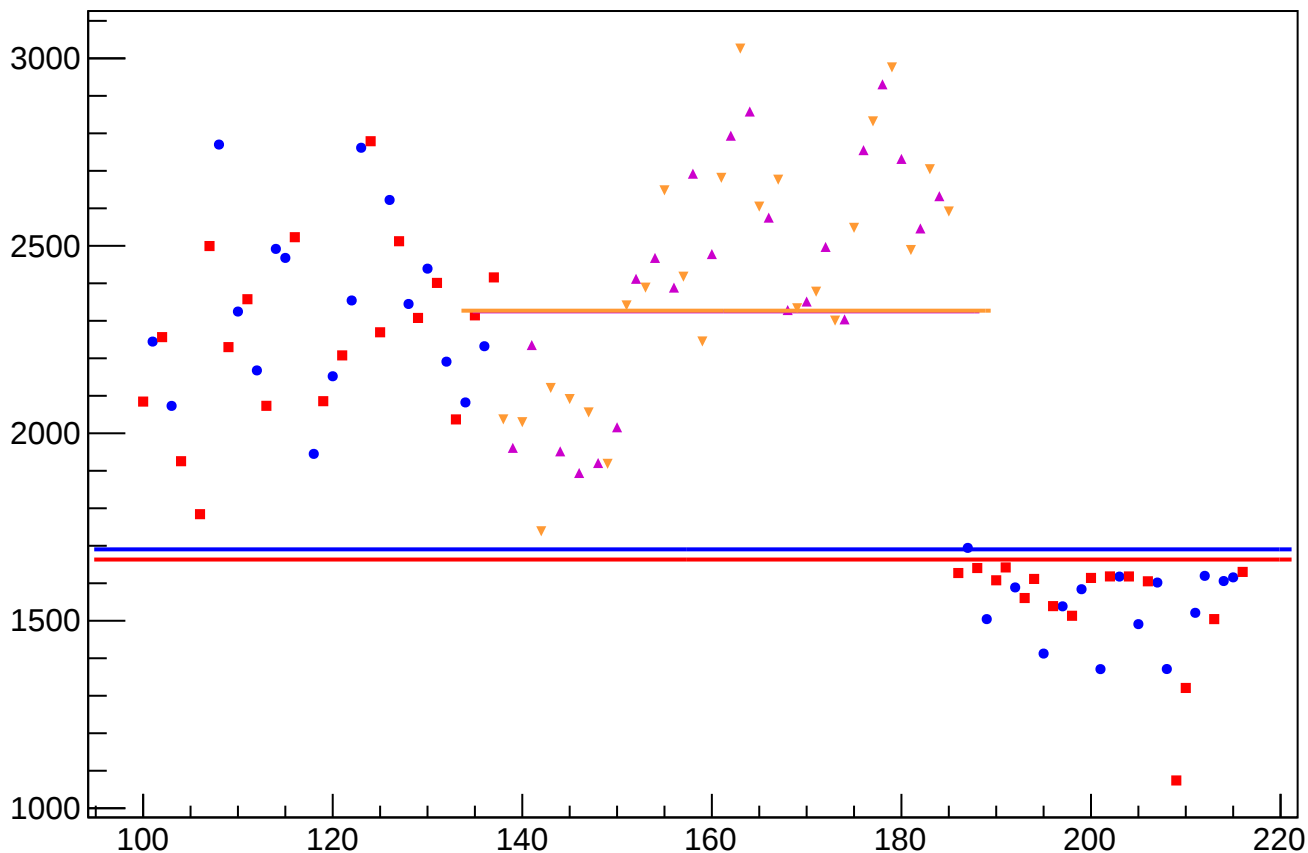
Right: 7.151 ± 0.289 $\chi^2/\text{NDF}: 675.9/66$

In: 7.419 ± 0.334 $\chi^2/\text{NDF}: 756.4/54$

Out: 4.266 ± 0.324 $\chi^2/\text{NDF}: 299.7/59$

All: 5.796 ± 0.233 $\chi^2/\text{NDF}: 1101.9/114$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1690.457+/-0.293

χ^2/NDF : 1233142.9/31

Left Out: 2327.044+/-0.387

χ^2/NDF : 646706.7/24

Right Out: 1663.291+/-0.284

χ^2/NDF : 1557832.1/34

Left In: 2325.175+/-0.400

χ^2/NDF : 610729.2/22

Left: 2326.139+/-0.278

χ^2/NDF : 1257447.2/47

Right: 1676.482+/-0.204

χ^2/NDF : 2795403.8/66

In: 1912.155+/-0.236

χ^2/NDF : 3485388.9/54

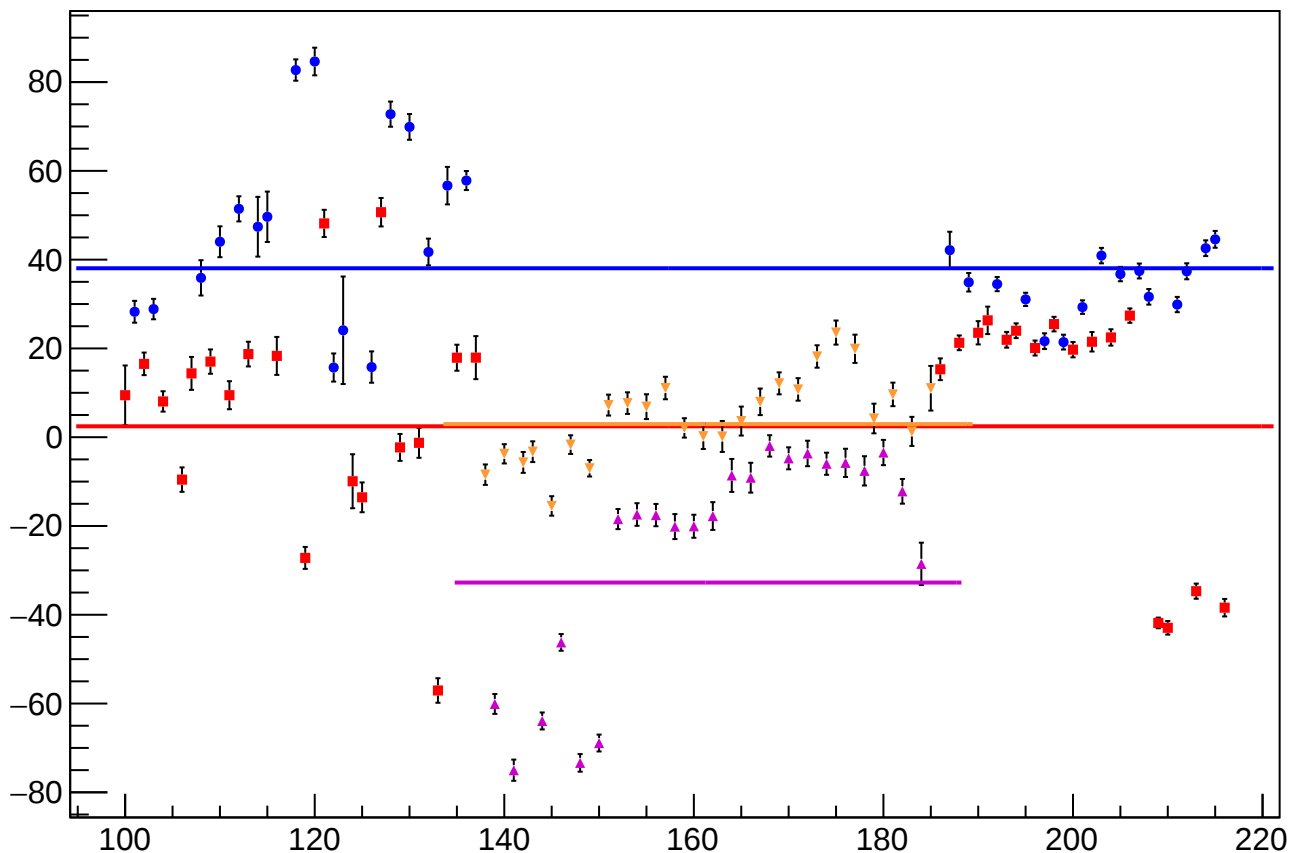
Out: 1895.950+/-0.229

χ^2/NDF : 4113274.1/59

All: 1903.810+/-0.164

χ^2/NDF : 7601087.3/111

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: 2.457 ± 0.376 $\chi^2/\text{NDF}: 5820.1/34$

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

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

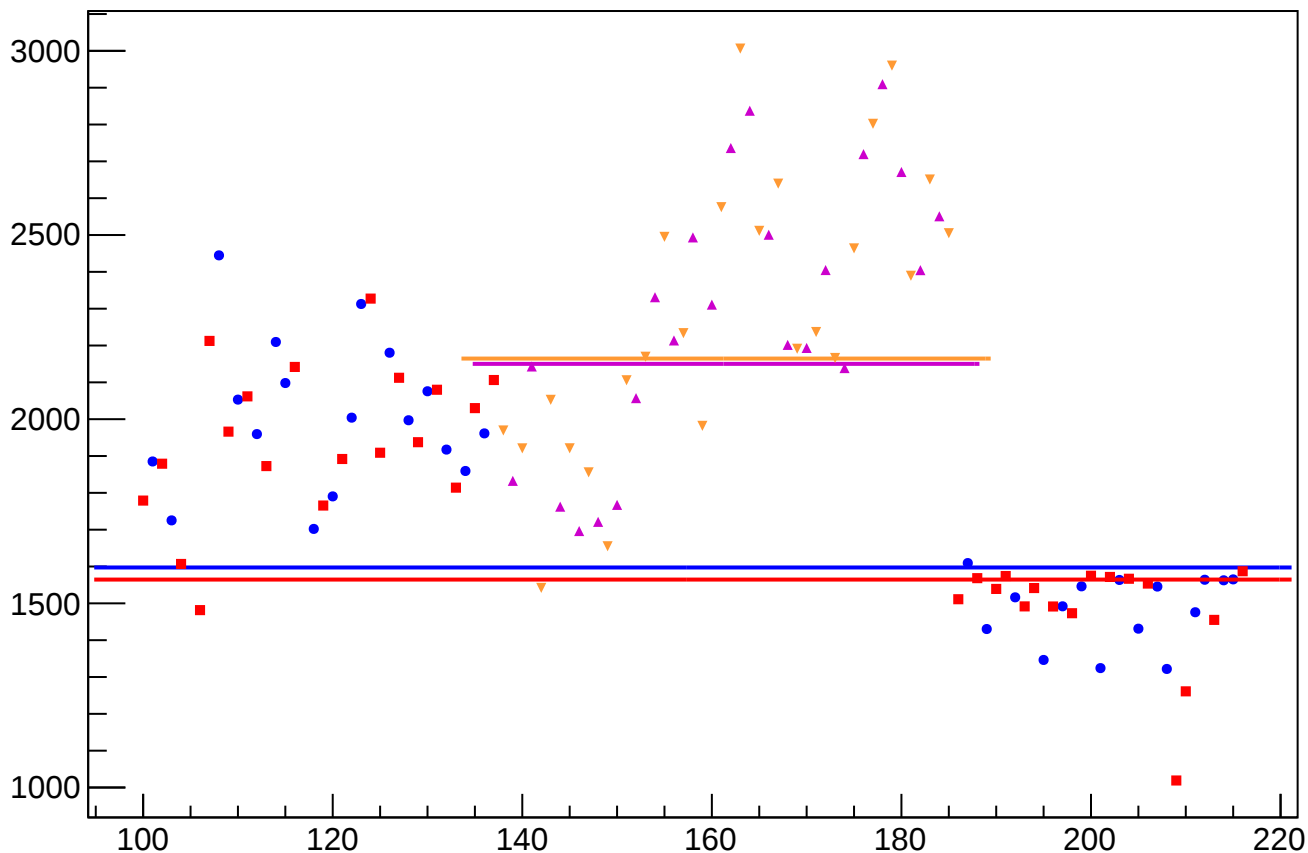
Right: 19.668 ± 0.270 $\chi^2/\text{NDF}: 11562.0/66$

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

Out: 2.630 ± 0.303 $\chi^2/\text{NDF}: 6158.5/59$

All: 7.688 ± 0.218 $\chi^2/\text{NDF}: 22490.6/114$

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: 1564.549 ± 0.266 $\chi^2/\text{NDF}: 1081105.9/34$

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

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

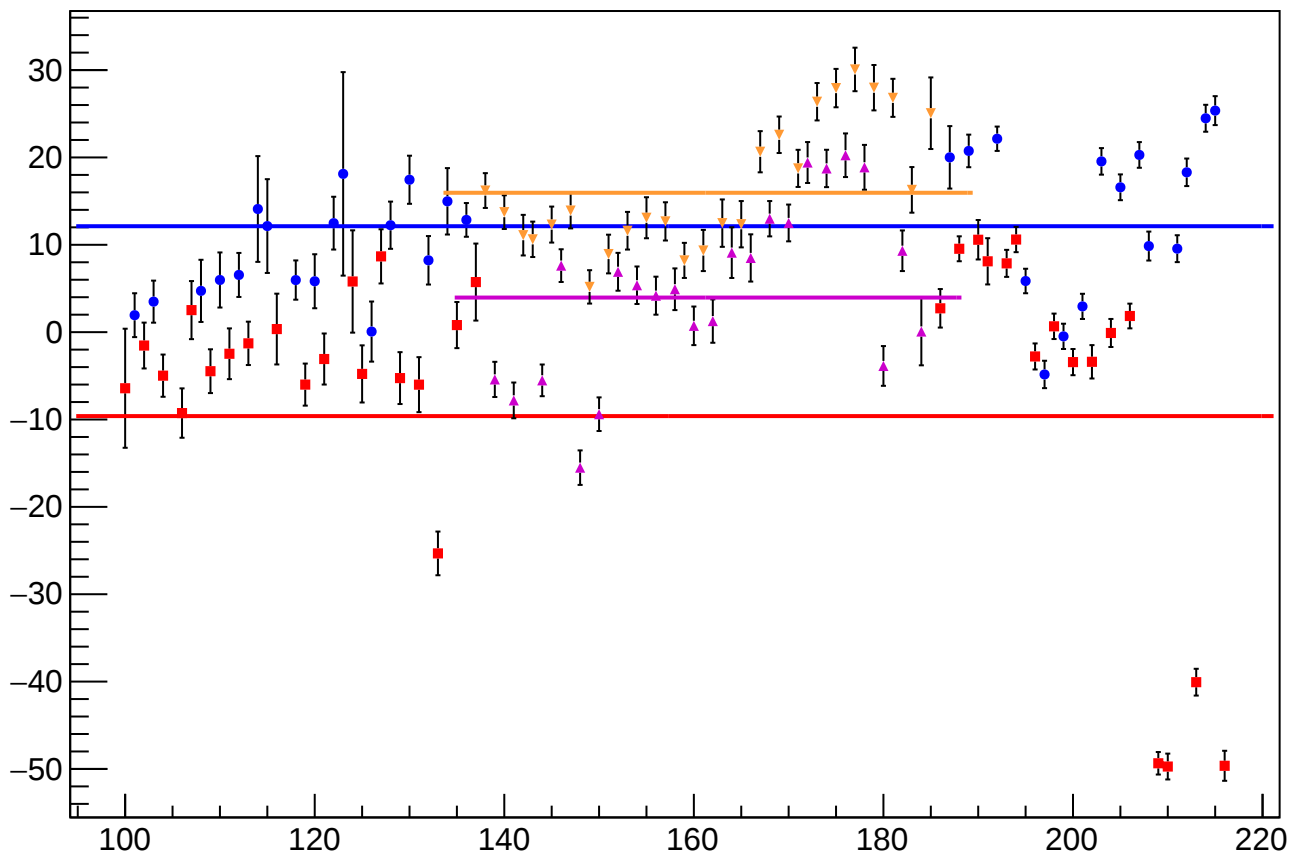
Right: 1580.426 ± 0.191 $\chi^2/\text{NDF}: 1832037.9/66$

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

Out: 1774.731 ± 0.214 $\chi^2/\text{NDF}: 3831860.1/59$

All: 1783.330 ± 0.154 $\chi^2/\text{NDF}: 6919336.3/11$

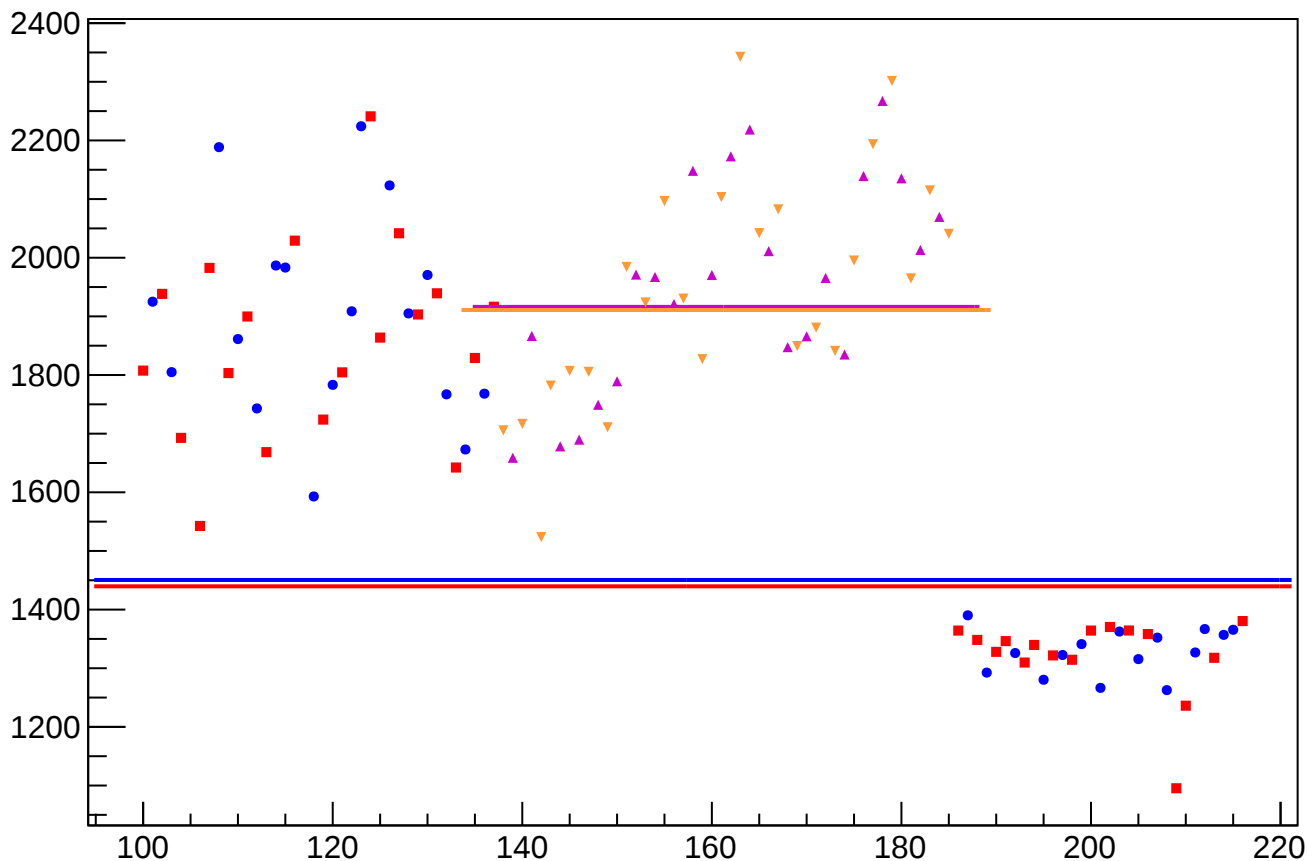
diff_bpm0i01aY_mean vs Slug, Sign Corrected



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: -9.608 ± 0.345 χ^2/NDF : 3657.4/34
 Left In: 3.960 ± 0.463 χ^2/NDF : 464.9/22

Left: 10.161 ± 0.322 χ^2/NDF : 1057.3/47
 Right: 1.016 ± 0.246 χ^2/NDF : 6218.5/66
 In: 9.130 ± 0.280 χ^2/NDF : 1278.4/54
 Out: -0.090 ± 0.273 χ^2/NDF : 5951.8/59
 All: 4.398 ± 0.196 χ^2/NDF : 7785.2/114

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1450.499 ± 0.249 $\chi^2/\text{NDF}: 881372.9/31$

Left Out: 1910.859 ± 0.316 $\chi^2/\text{NDF}: 328970.6/24$

Right Out: 1439.690 ± 0.244 $\chi^2/\text{NDF}: 975537.2/34$

Left In: 1916.159 ± 0.327 $\chi^2/\text{NDF}: 274285.3/22$

Left: 1913.419 ± 0.227 $\chi^2/\text{NDF}: 603391.5/47$

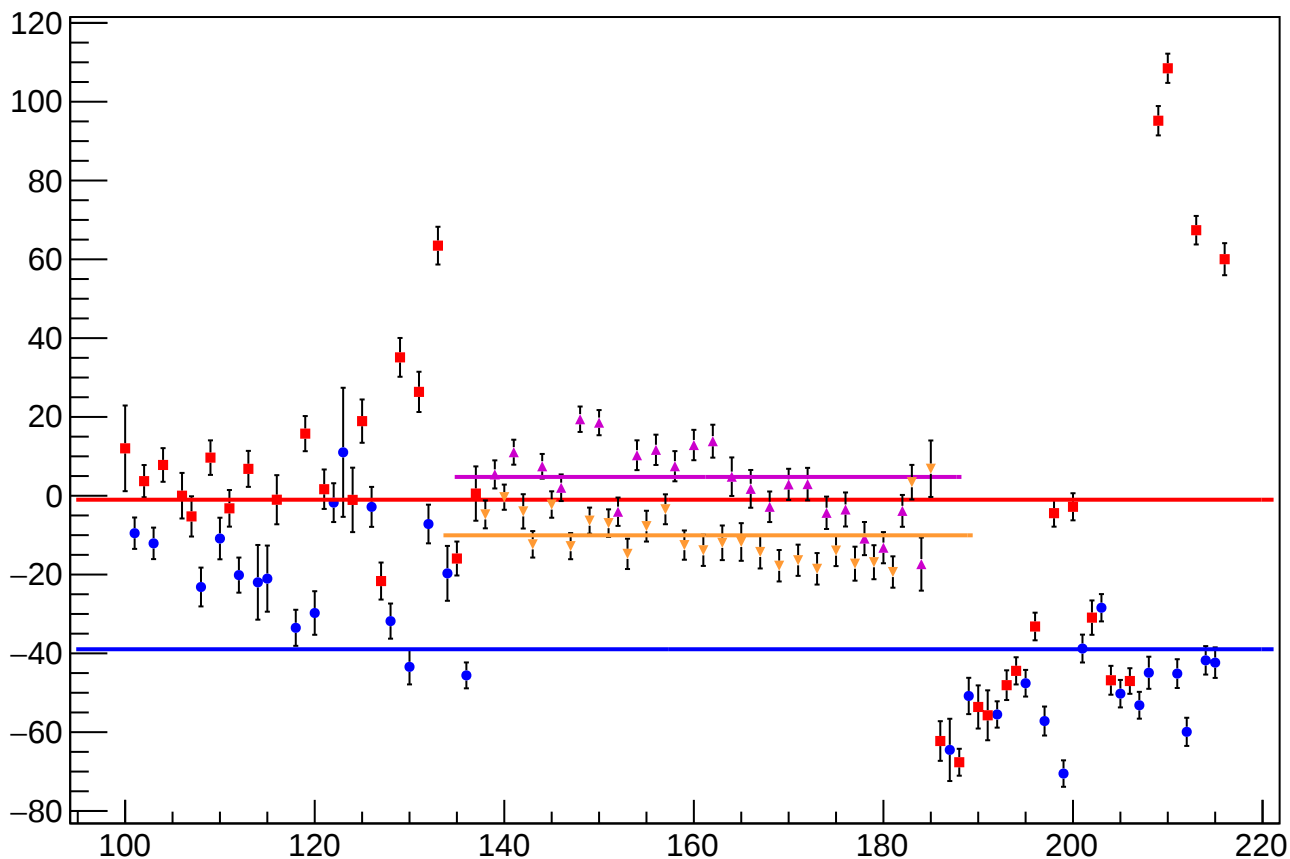
Right: 1444.974 ± 0.174 $\chi^2/\text{NDF}: 1857872.0/66$

In: 1621.390 ± 0.198 $\chi^2/\text{NDF}: 2437227.5/54$

Out: 1615.128 ± 0.193 $\chi^2/\text{NDF}: 2696701.9/59$

All: 1618.175 ± 0.138 $\chi^2/\text{NDF}: 5134441.5/11$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.957±/0.748 χ^2/NDF : 581.6/31

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

Right Out: -1.006±/0.738 χ^2/NDF : 3959.8/34

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

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

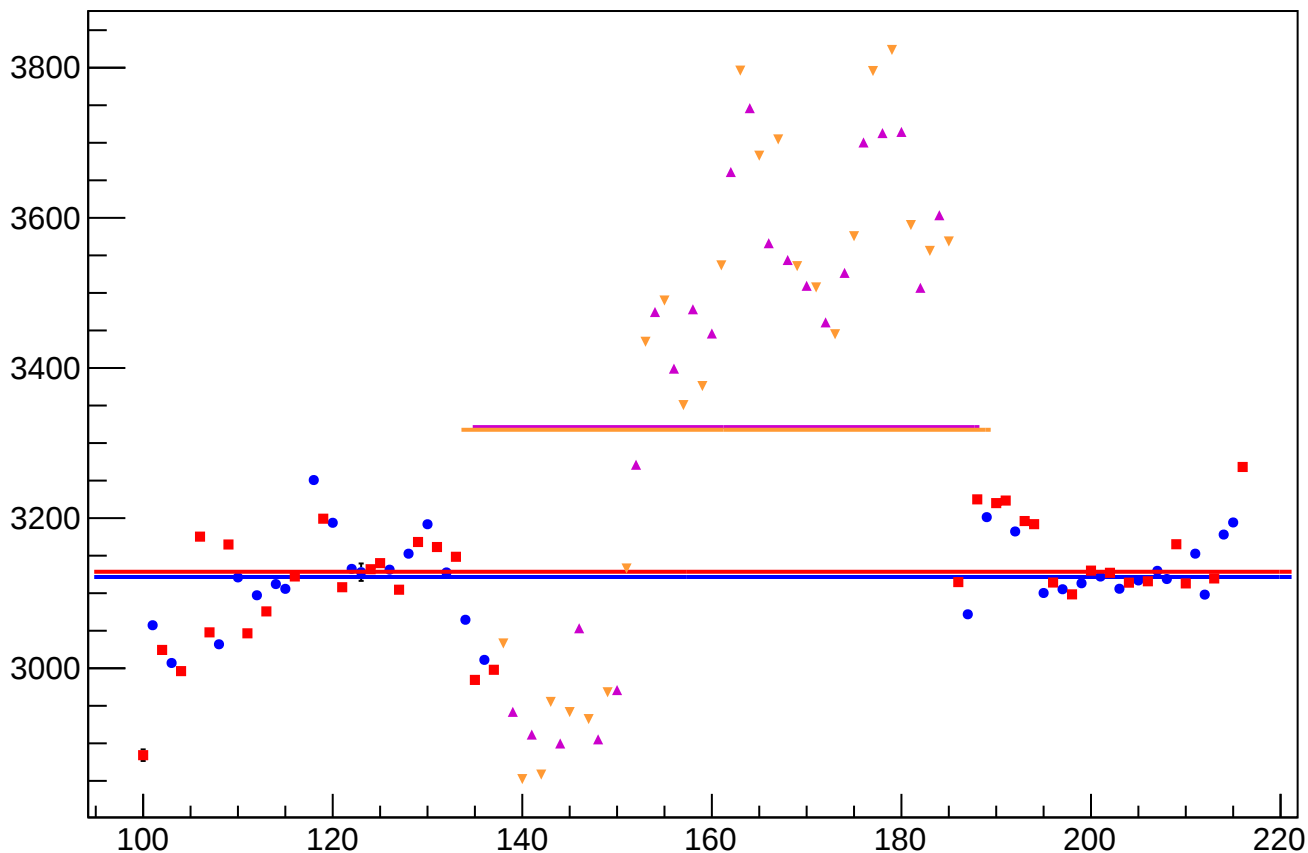
Right: -19.730±/0.525 χ^2/NDF : 5847.0/66

In: -18.585±/0.546 χ^2/NDF : 2304.3/54

Out: -5.293±/0.535 χ^2/NDF : 4098.1/59

All: -11.797±/0.382 χ^2/NDF : 6704.6/114

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: 3128.566 $\pm$ 0.522 χ^2 /NDF: 16474.1/34

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

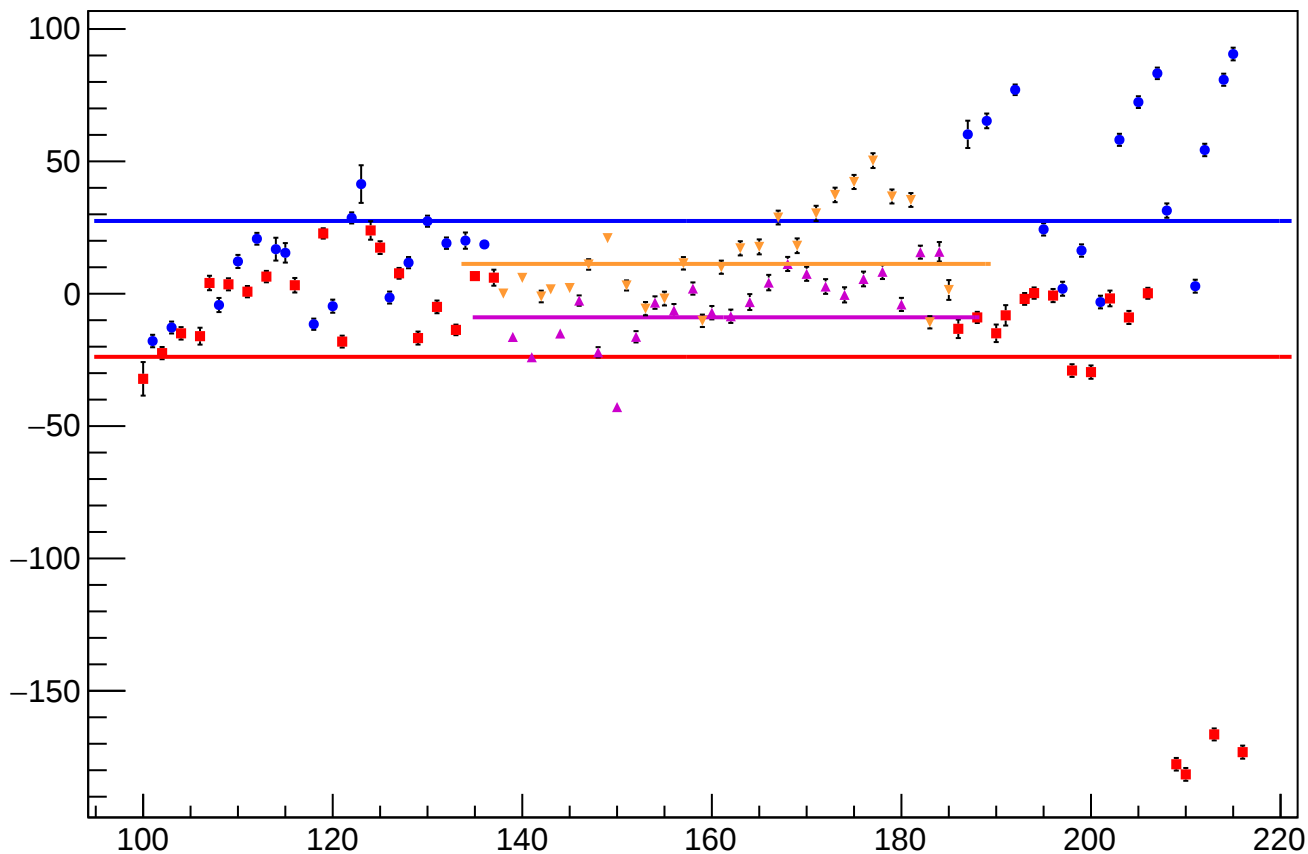
Right: 3125.125 $\pm$ 0.371 χ^2 /NDF: 27345.1/66

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

Out: 3218.311 $\pm$ 0.378 χ^2 /NDF: 415728.6/59

All: 3216.502 $\pm$ 0.270 χ^2 /NDF: 777370.3/114

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: -23.837 $\pm$ 0.411 χ^2/NDF : 19132.2/34

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

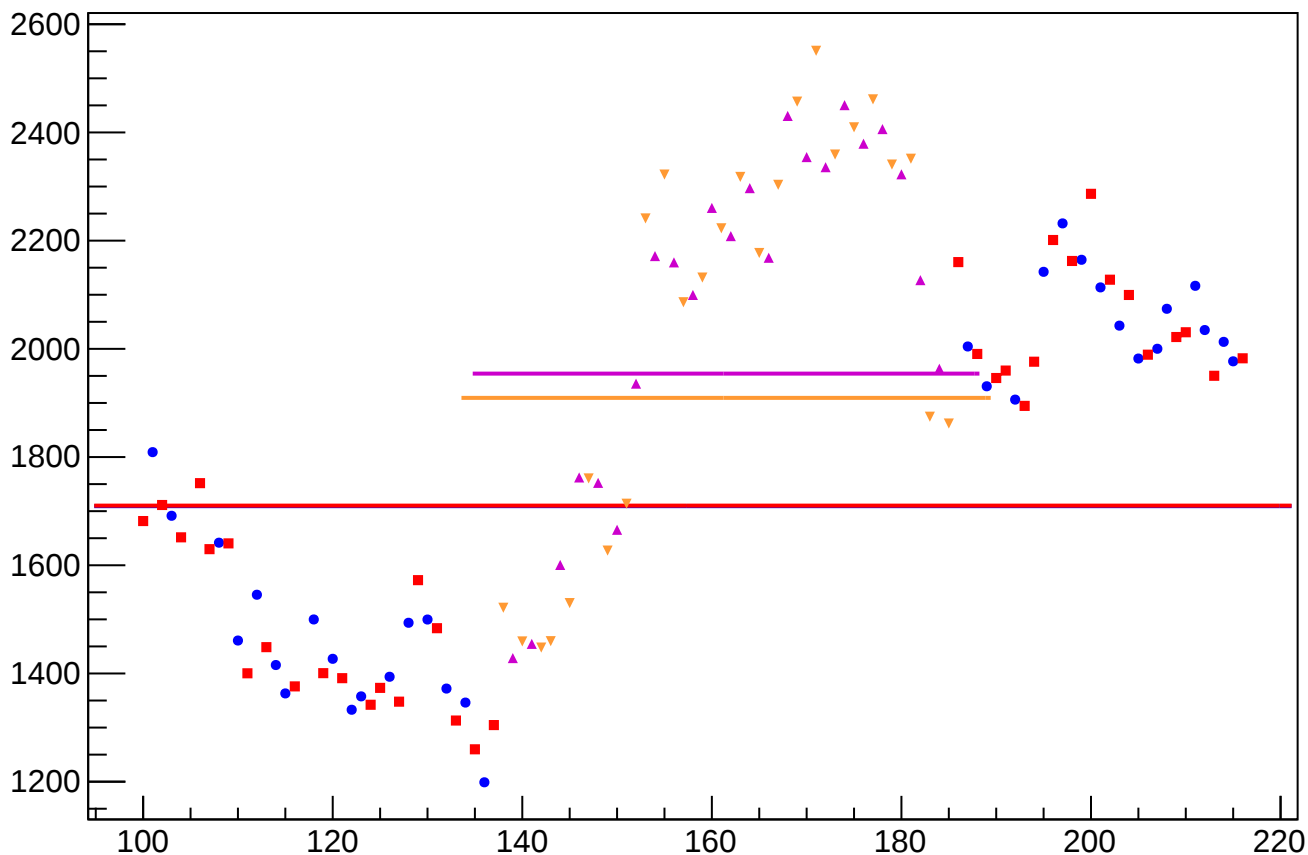
Right: 1.410 $\pm$ 0.293 χ^2/NDF : 32331.8/66

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

Out: -8.047 $\pm$ 0.305 χ^2/NDF : 23558.4/59

All: 1.530 $\pm$ 0.219 χ^2/NDF : 35346.9/114

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1709.232 ± 0.295 $\chi^2/\text{NDF}: 1251899.2/31$

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

Right Out: 1710.248 ± 0.290 $\chi^2/\text{NDF}: 1208240.1/34$

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

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

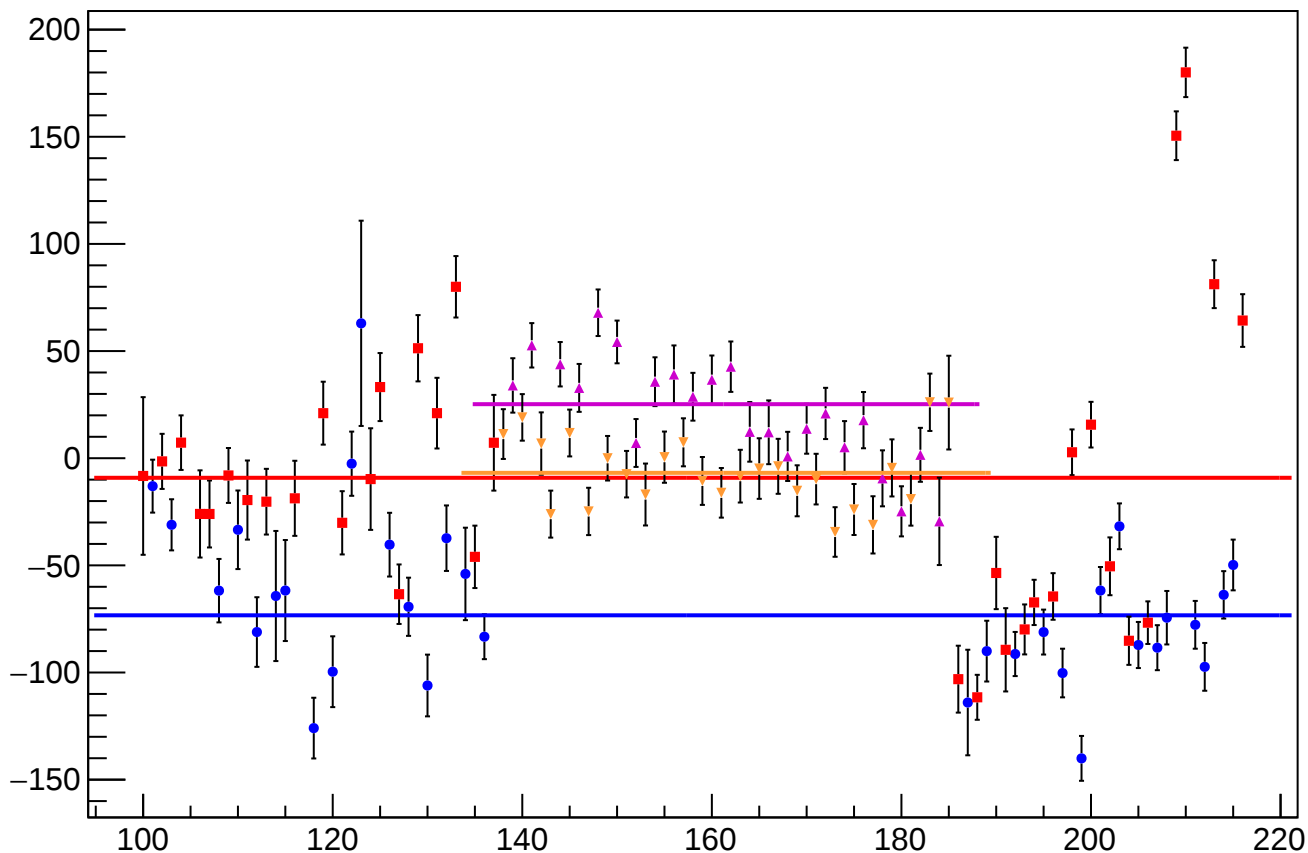
Right: 1709.748 ± 0.207 $\chi^2/\text{NDF}: 2460145.3/66$

In: 1815.382 ± 0.222 $\chi^2/\text{NDF}: 2595111.7/54$

Out: 1799.822 ± 0.215 $\chi^2/\text{NDF}: 2818113.8/59$

All: 1807.361 ± 0.155 $\chi^2/\text{NDF}: 5415752.2/11$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -73.310 ± 2.317 χ^2/NDF : 189.9/31

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

Right Out: -9.136 ± 2.289 χ^2/NDF : 1021.8/34

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

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

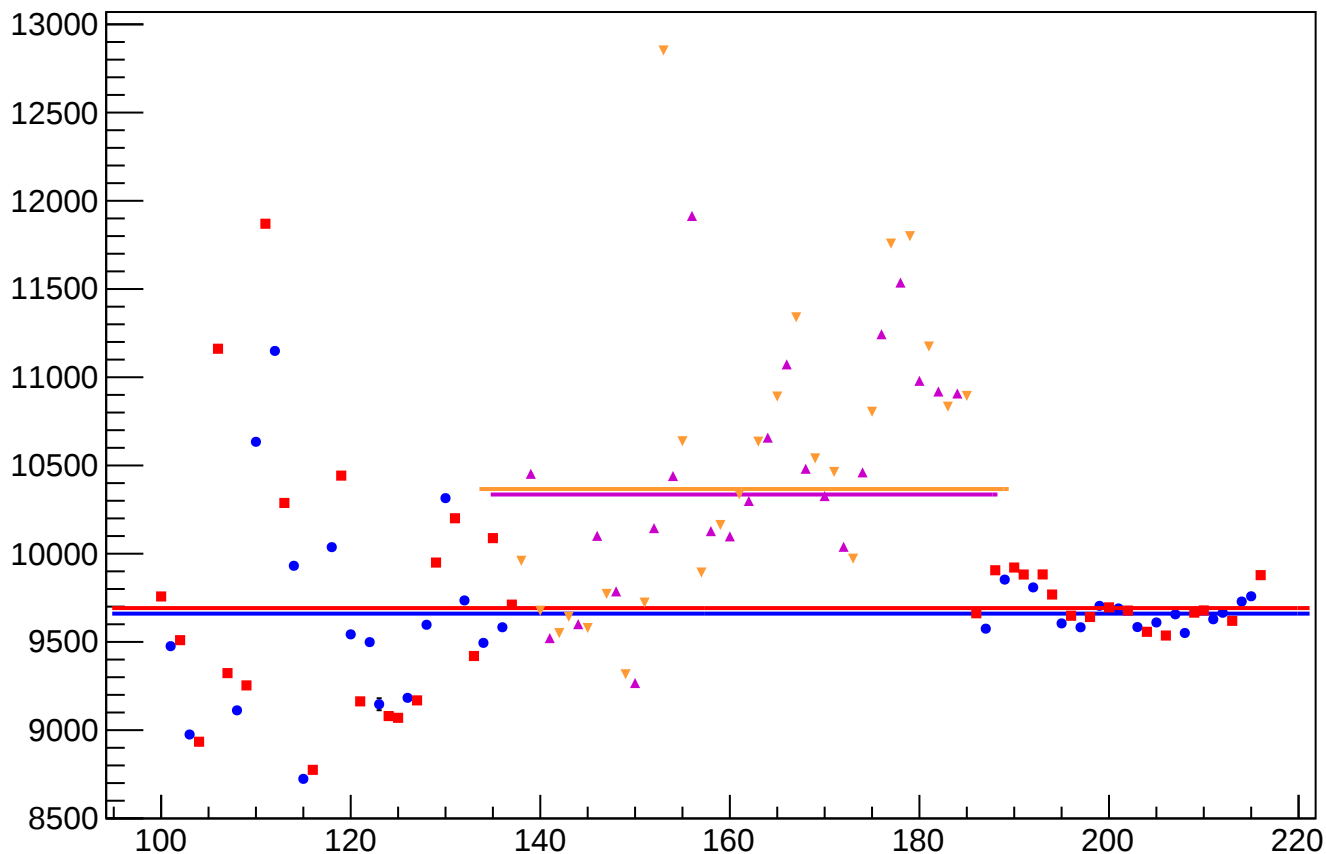
Right: -40.839 ± 1.629 χ^2/NDF : 1599.8/66

In: -27.521 ± 1.695 χ^2/NDF : 1119.5/54

Out: -8.046 ± 1.664 χ^2/NDF : 1064.6/59

All: -17.602 ± 1.187 χ^2/NDF : 2251.3/114

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: 9691.816+/-1.619 χ^2/NDF : 80900.9/34

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

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

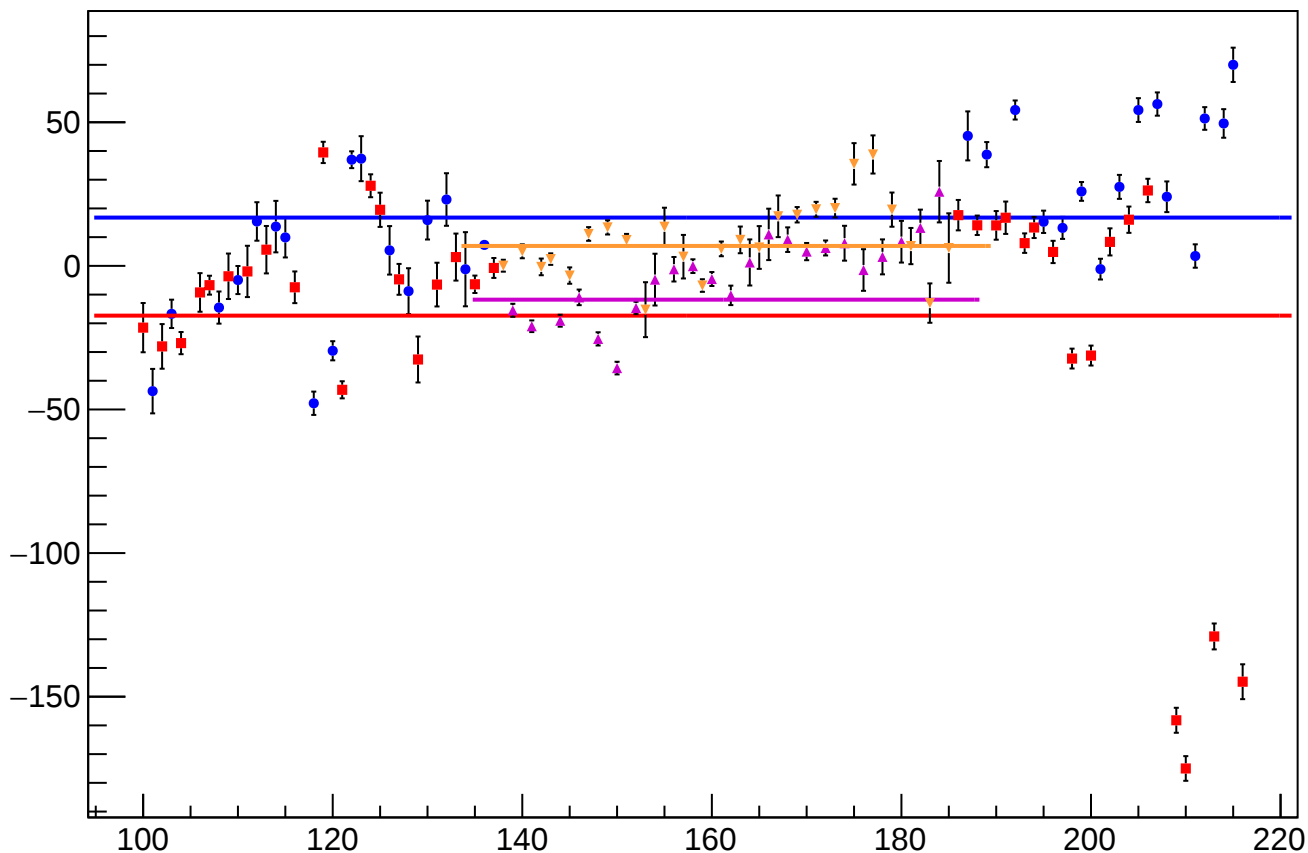
Right: 9676.281+/-1.152 χ^2/NDF : 126649.6/66

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

Out: 10010.141+/-1.177 χ^2/NDF : 374252.3/59

All: 9992.449+/-0.840 χ^2/NDF : 626338.6/114

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: -17.326 ± 0.753 $\chi^2/\text{NDF}: 4614.3/34$

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

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

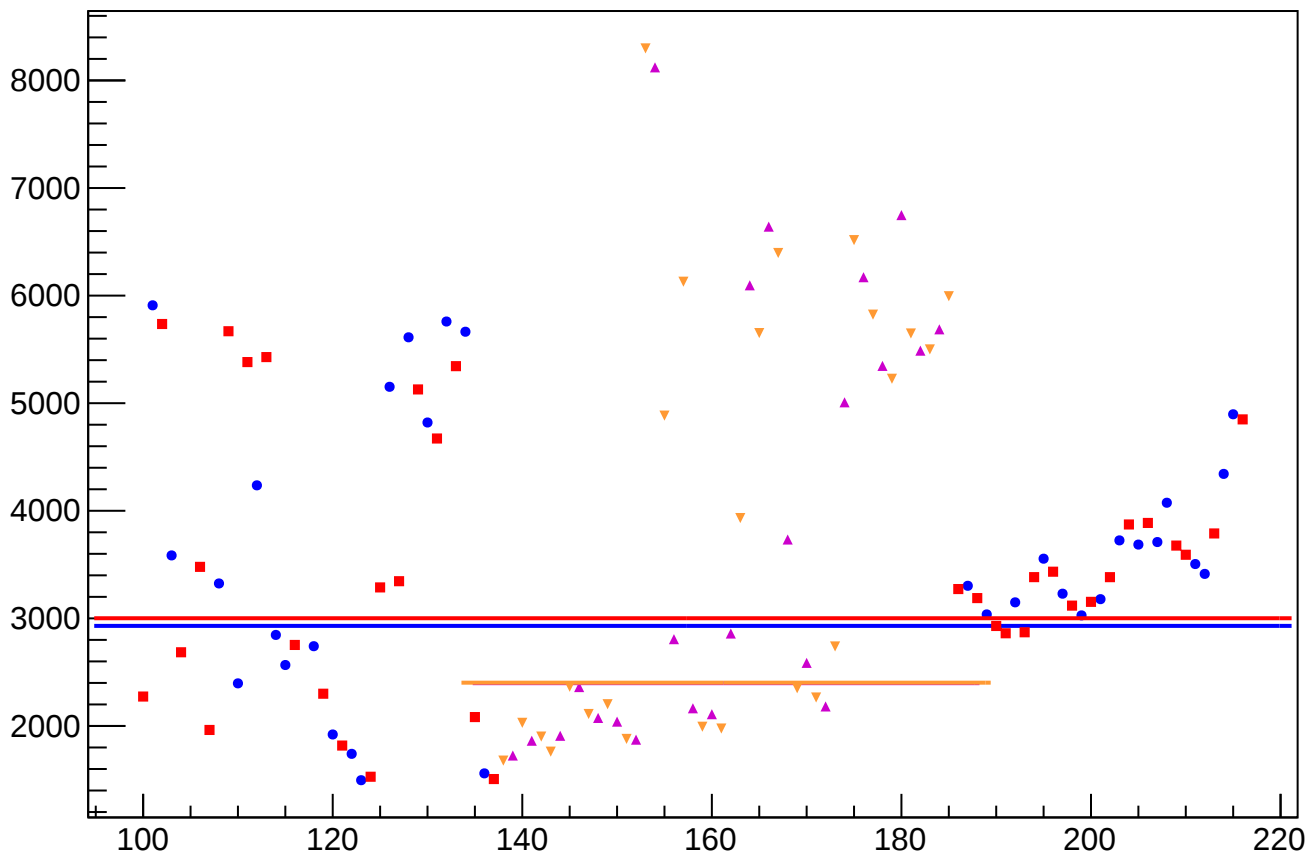
Right: -0.351 ± 0.534 $\chi^2/\text{NDF}: 6935.0/66$

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

Out: -3.214 ± 0.487 $\chi^2/\text{NDF}: 5421.9/59$

All: -1.465 ± 0.346 $\chi^2/\text{NDF}: 7963.8/114$

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: 3001.251 ± 0.532 $\chi^2/\text{NDF}: 3241160.8/34$

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

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

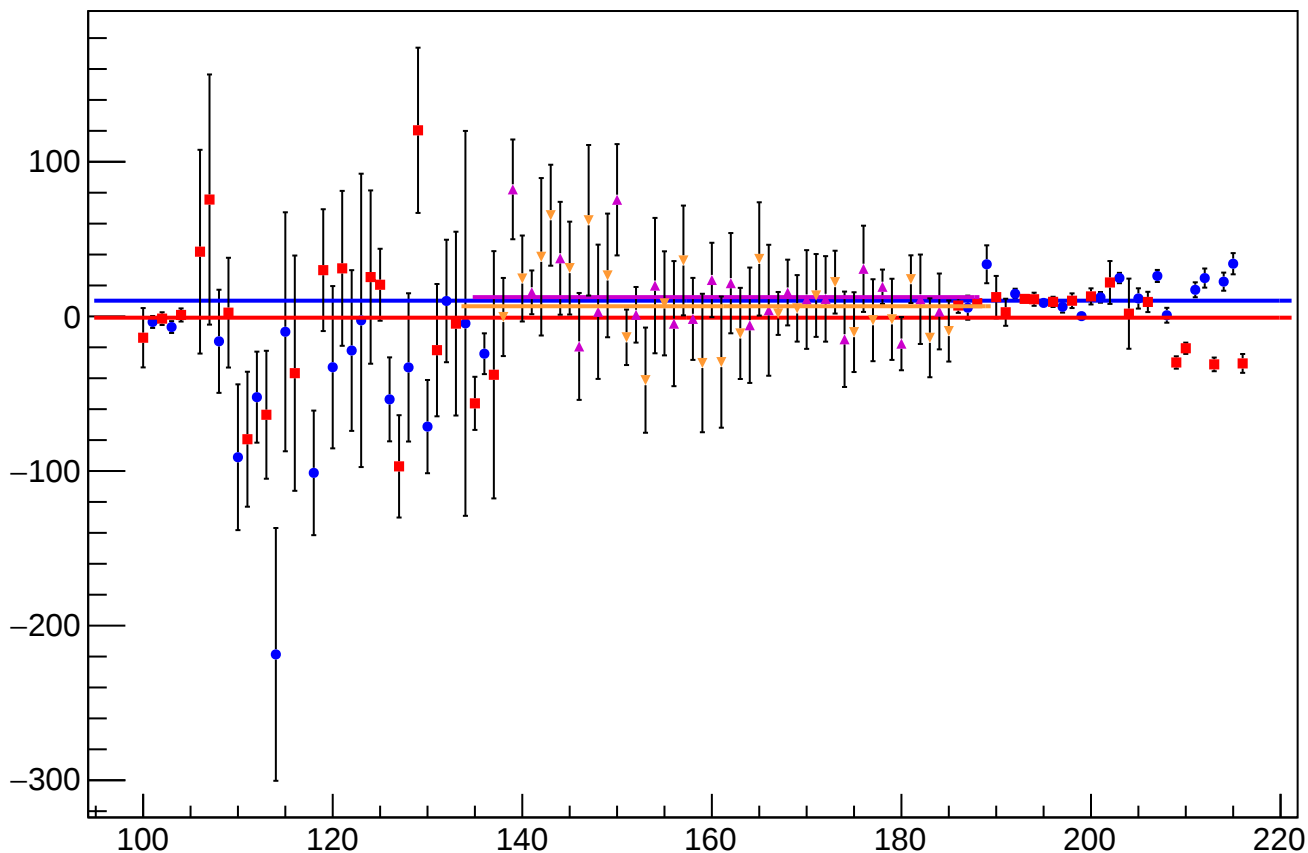
Right: 2965.915 ± 0.378 $\chi^2/\text{NDF}: 7195616.0/66$

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

Out: 2652.945 ± 0.344 $\chi^2/\text{NDF}: 10322796.8/59$

All: 2638.103 ± 0.245 $\chi^2/\text{NDF}: 20241682.7/116$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 10.162 ± 1.020 χ^2/NDF : 161.4/31

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

Right Out: -0.834 ± 1.059 χ^2/NDF : 251.9/34

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

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

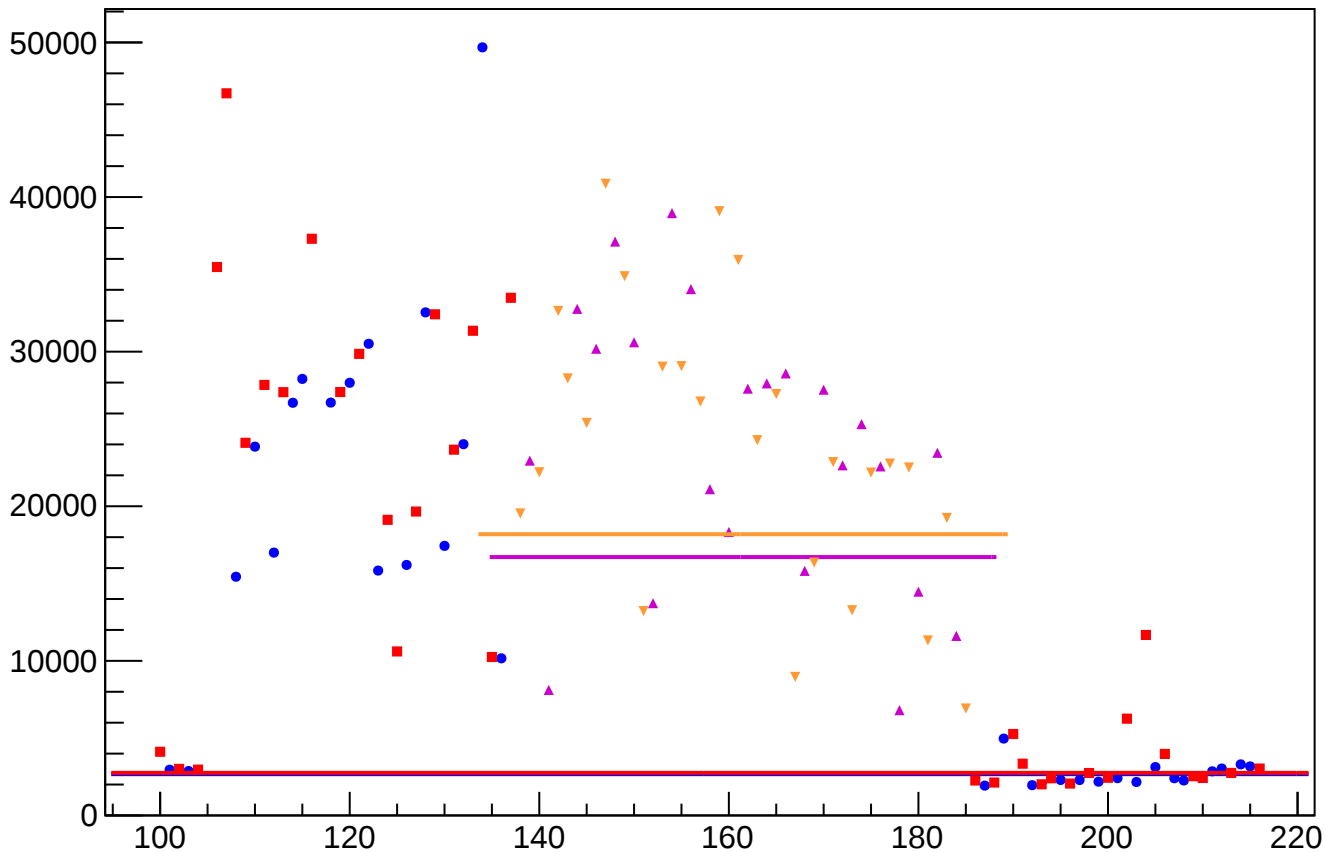
Right: 4.875 ± 0.735 χ^2/NDF : 469.2/66

In: 10.253 ± 0.999 χ^2/NDF : 177.0/54

Out: -0.525 ± 1.037 χ^2/NDF : 270.6/59

All: 5.064 ± 0.720 χ^2/NDF : 503.7/114

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2671.015 ± 0.721 $\chi^2/\text{NDF}: 7046749.2/31$

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

Right Out: 2755.674 ± 0.749 $\chi^2/\text{NDF}: 9083984.6/34$

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

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

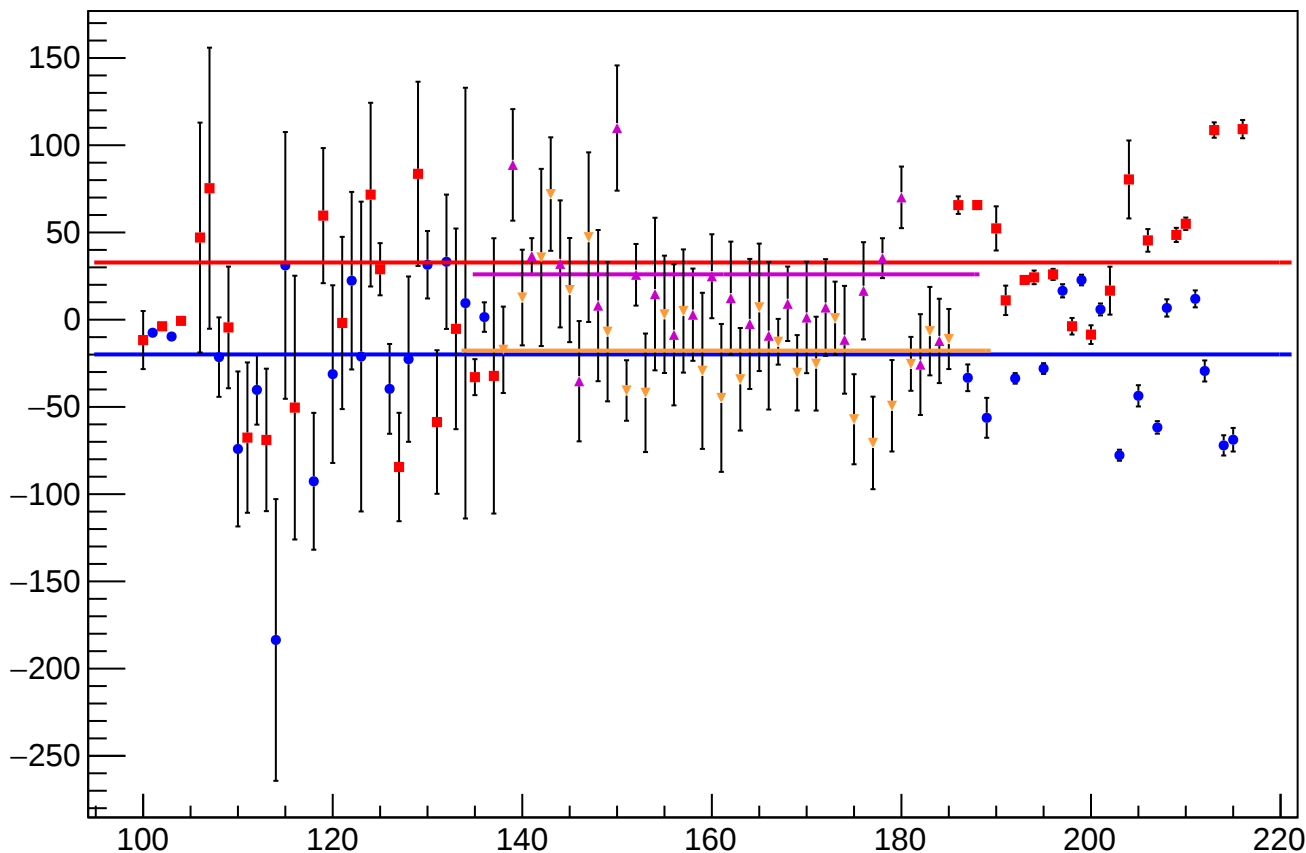
Right: 2711.722 ± 0.519 $\chi^2/\text{NDF}: 16137365.0/66$

In: 3226.149 ± 0.707 $\chi^2/\text{NDF}: 28240888.0/54$

Out: 3399.543 ± 0.733 $\chi^2/\text{NDF}: 32055929.6/59$

All: 3309.622 ± 0.509 $\chi^2/\text{NDF}: 60325813.7/100$

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: 32.794 ± 0.954 $\chi^2/\text{NDF}: 1305.3/34$

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

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

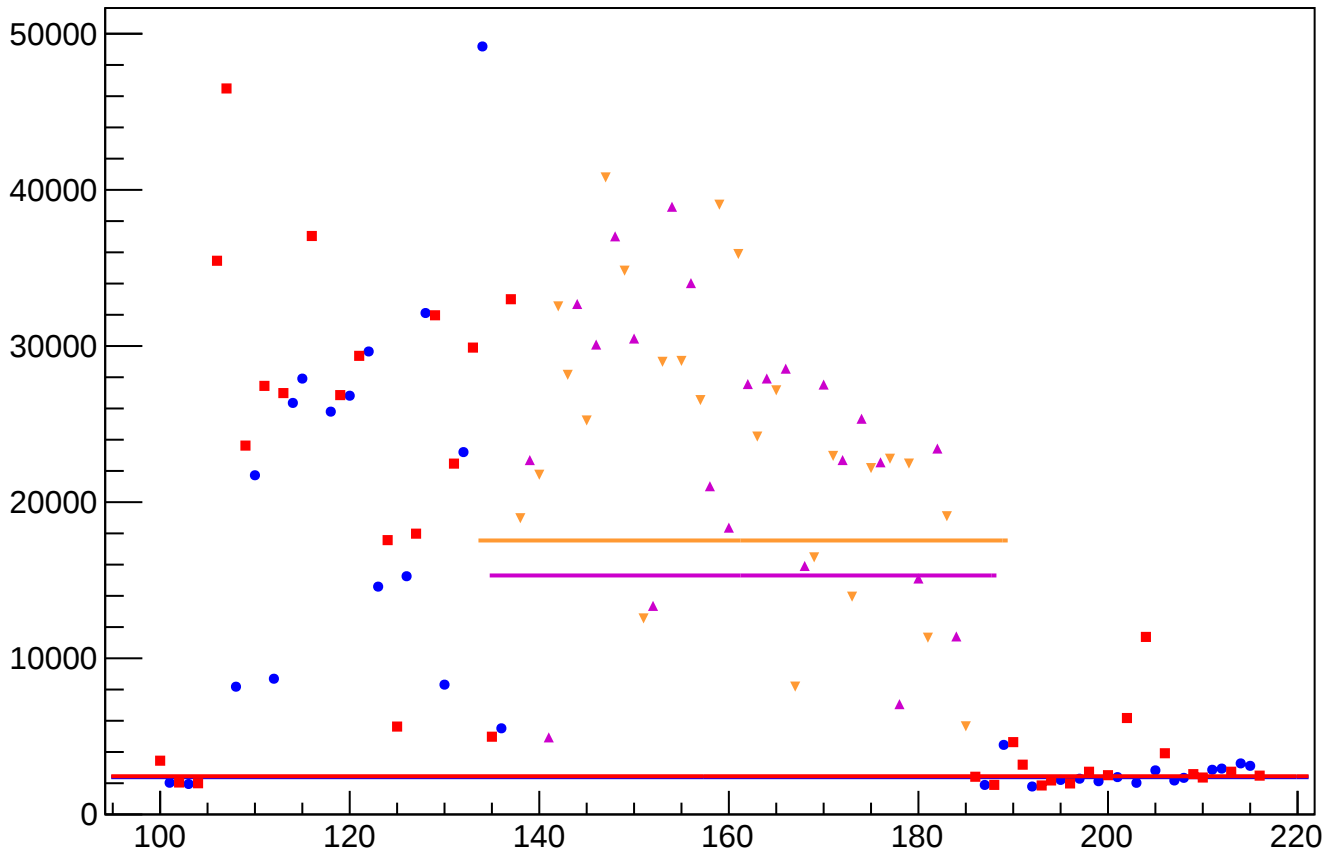
Right: 5.453 ± 0.661 $\chi^2/\text{NDF}: 4034.0/66$

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

Out: 31.003 ± 0.936 $\chi^2/\text{NDF}: 1432.0/59$

All: 5.436 ± 0.650 $\chi^2/\text{NDF}: 4133.8/114$

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: 2447.410 ± 0.674 $\chi^2/\text{NDF}: 8759830.0/34$

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

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

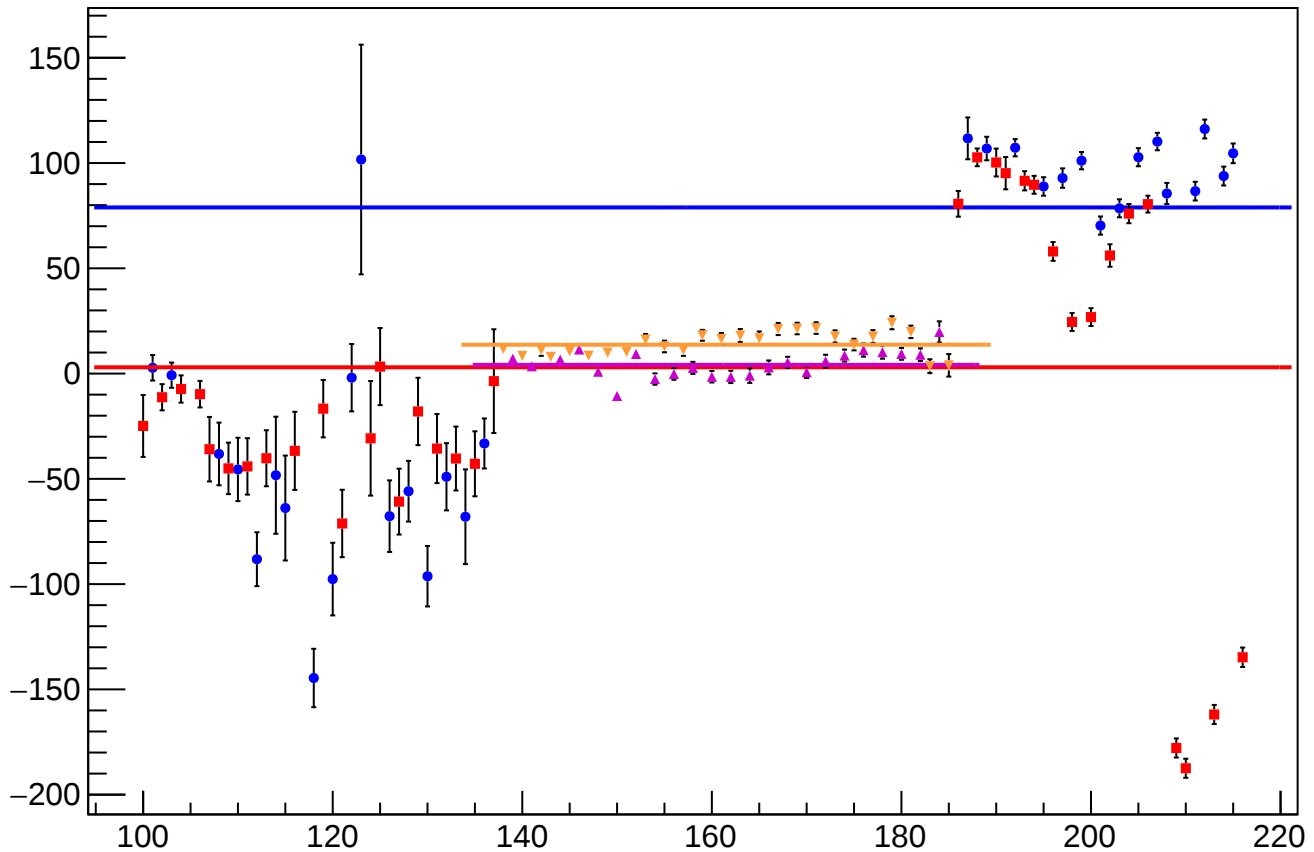
Right: 2416.142 ± 0.468 $\chi^2/\text{NDF}: 14692577.7/66$

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

Out: 2982.577 ± 0.662 $\chi^2/\text{NDF}: 32436589.8/59$

All: 2911.410 ± 0.459 $\chi^2/\text{NDF}: 60145762.7/111$

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: 2.989 $\pm$ 1.075 χ^2/NDF : 8518.0/34

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

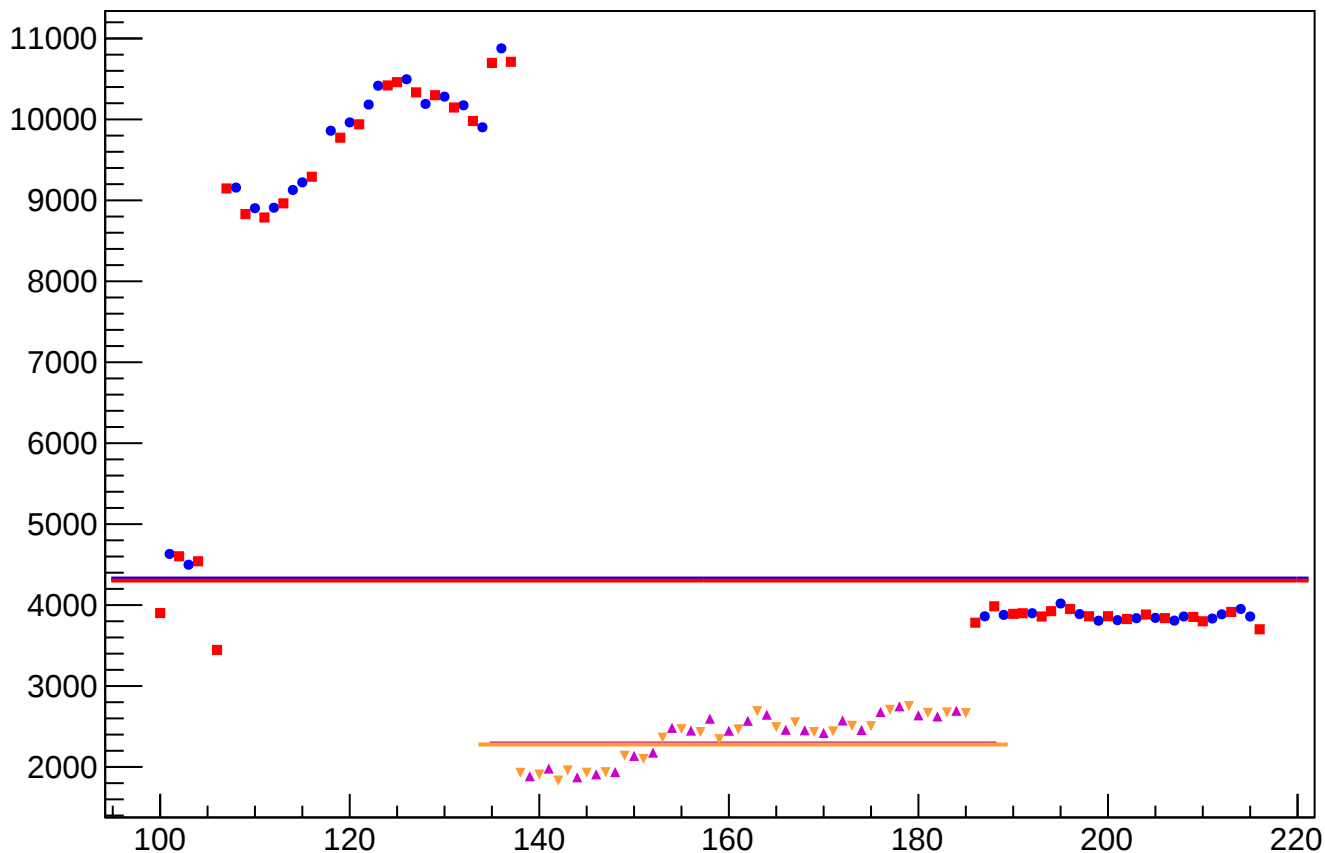
Right: 40.100 $\pm$ 0.768 χ^2/NDF : 12880.0/66

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

Out: 11.579 $\pm$ 0.479 χ^2/NDF :8687.7/59

All: 15.325 $\pm$ 0.344 χ^2/NDF : 14536.8/114

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: 4303.393 $\pm$ 0.760 χ^2/NDF : 3903630.8/34

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

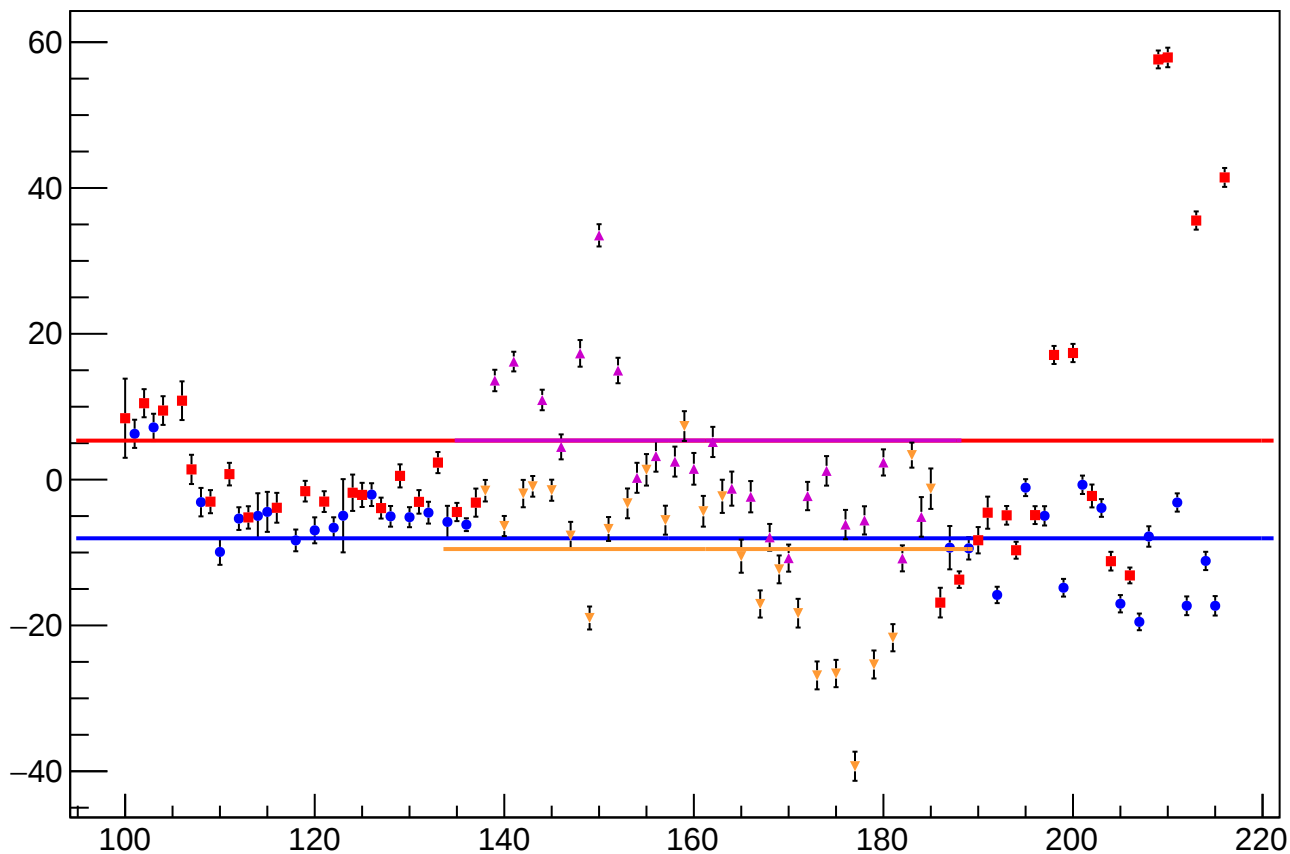
Right: 4315.293 $\pm$ 0.543 χ^2/NDF : 7766768.4/66

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

Out: 2680.717 $\pm$ 0.339 χ^2/NDF : 10202893.9/59

All: 2692.095 $\pm$ 0.243 χ^2/NDF : 20135706.8/100

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: 5.349 ± 0.252 χ^2/NDF : 6539.9/34

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

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

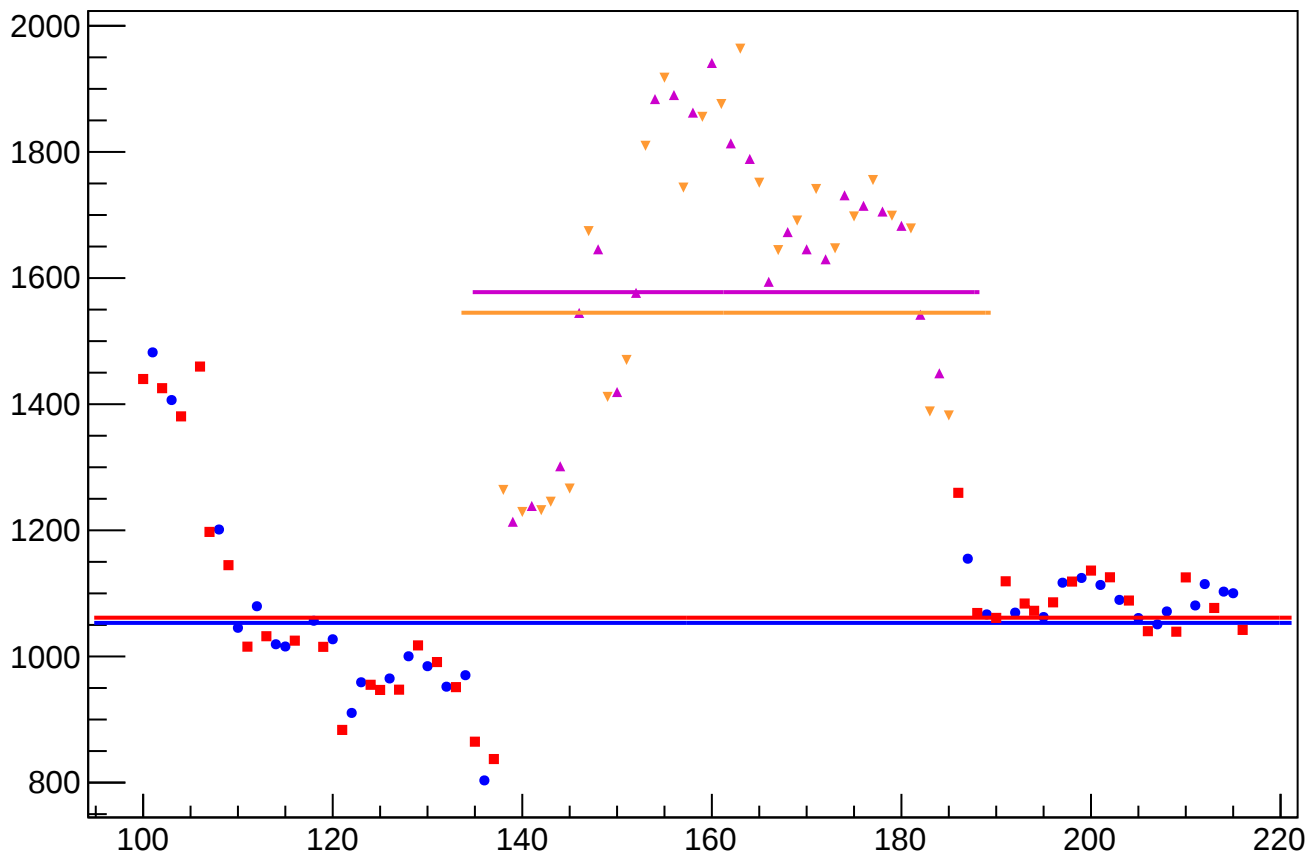
Right: -1.294 ± 0.179 χ^2/NDF : 8561.4/66

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

Out: 0.550 ± 0.207 χ^2/NDF : 8550.1/59

All: -1.653 ± 0.148 χ^2/NDF : 11121.6/114

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: 1061.488 $\pm$ 0.178 χ^2 /NDF: 393612.4/34

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

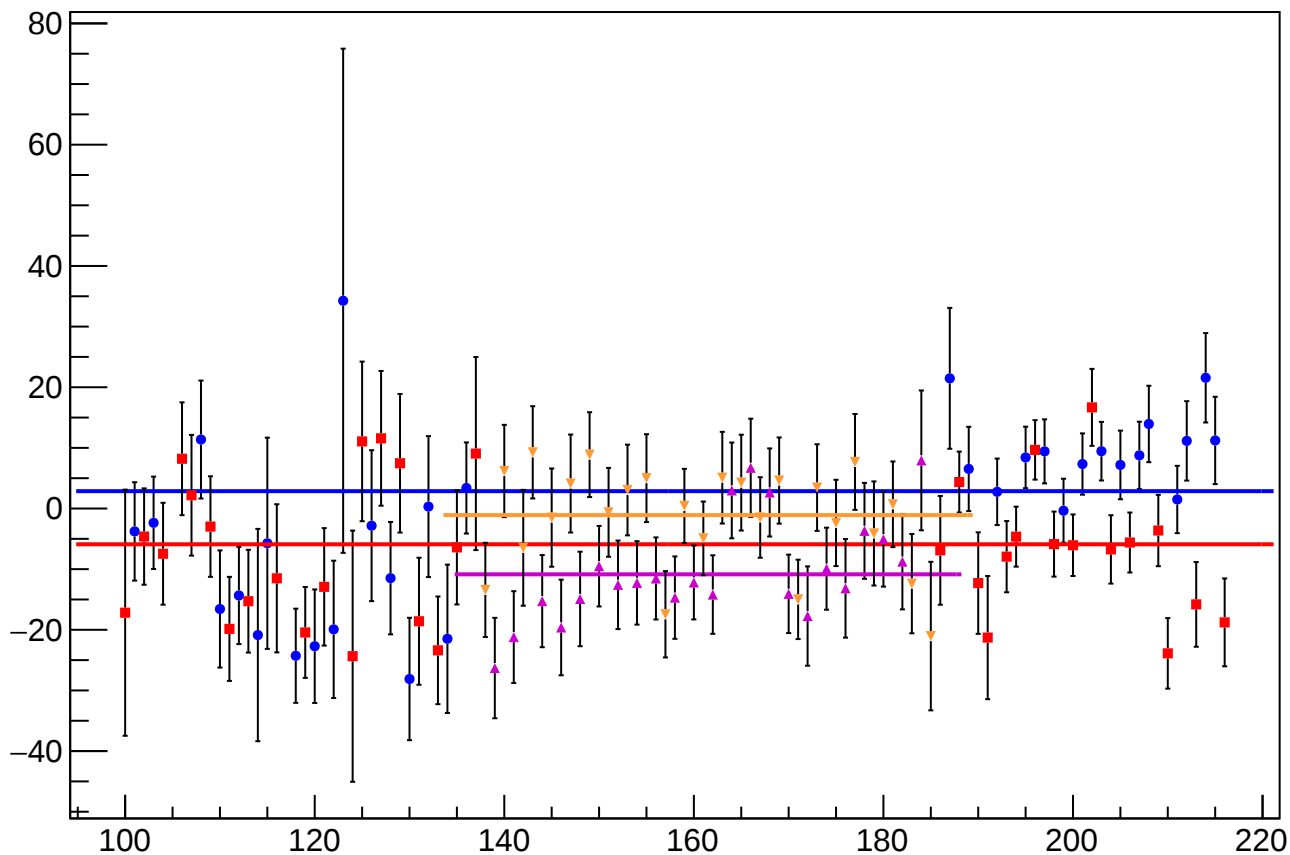
Right: 1057.391 $\pm$ 0.126 χ^2 /NDF: 818929.7/66

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

Out: 1217.510 $\pm$ 0.147 χ^2 /NDF: 3617017.4/59

All: 1215.480 $\pm$ 0.105 χ^2 /NDF: 7273536.5/11

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: -5.896 ± 1.242 $\chi^2/\text{NDF}: 69.2/34$

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

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

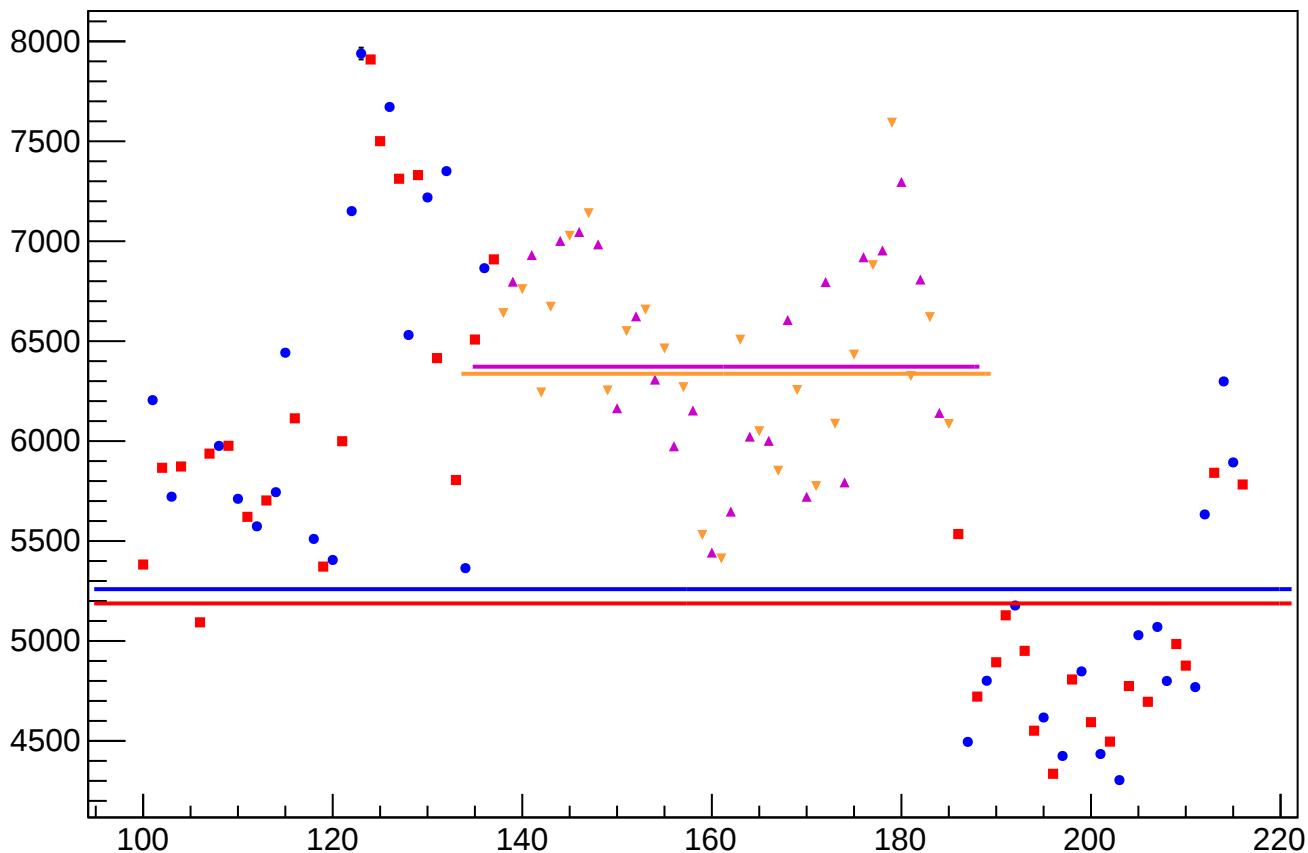
Right: -1.656 ± 0.892 $\chi^2/\text{NDF}: 169.2/66$

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

Out: -3.919 ± 0.953 $\chi^2/\text{NDF}: 102.9/59$

All: -3.351 ± 0.685 $\chi^2/\text{NDF}: 250.6/114$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5259.241 ± 0.907 χ^2/NDF : 812014.3/31

Left Out: 6336.876 ± 1.052 χ^2/NDF : 222912.5/24

Right Out: 5187.758 ± 0.878 χ^2/NDF : 687106.7/34

Left In: 6372.349 ± 1.090 χ^2/NDF : 247257.0/22

Left: 6353.974 ± 0.757 χ^2/NDF : 470718.0/47

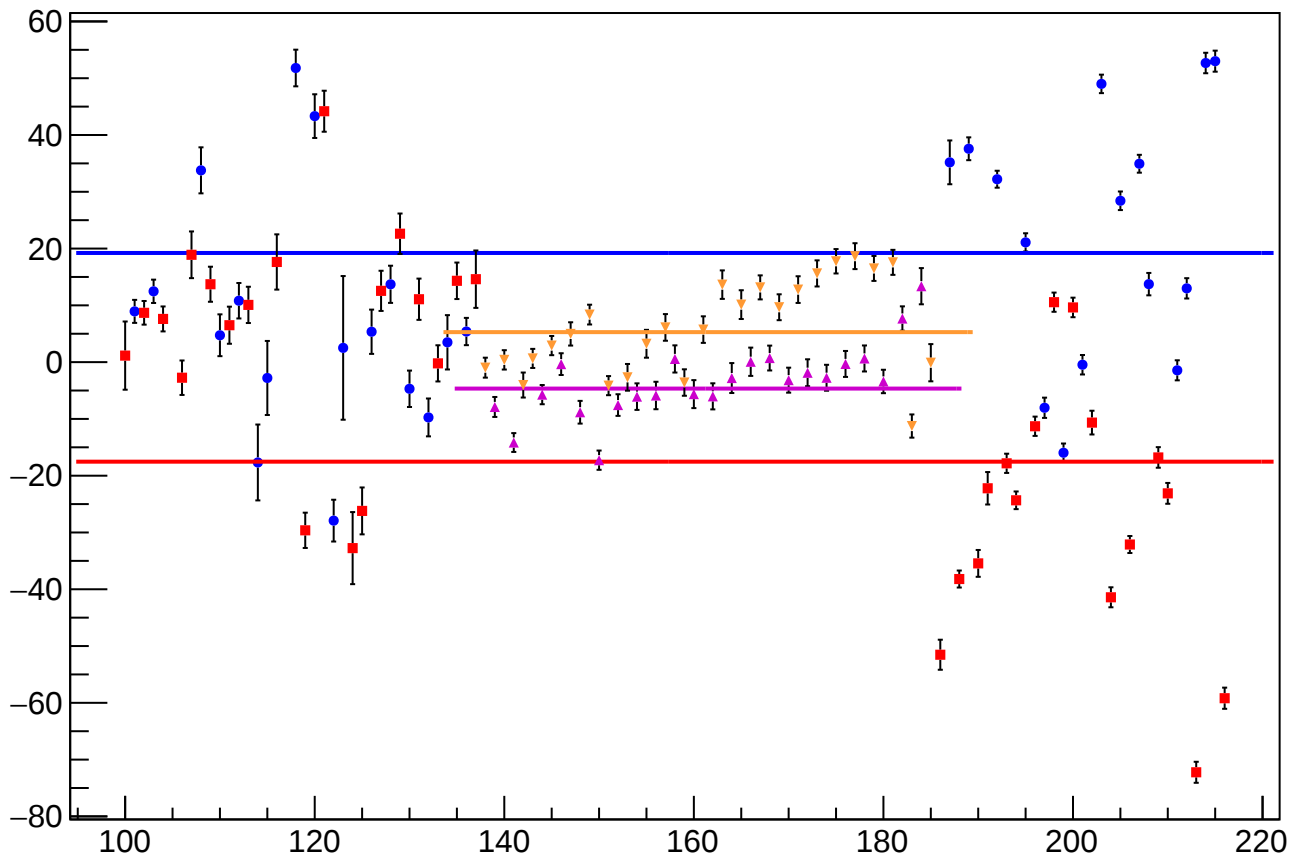
Right: 5222.360 ± 0.631 χ^2/NDF : 1502328.8/66

In: 5714.335 ± 0.697 χ^2/NDF : 1675638.6/54

Out: 5659.854 ± 0.674 χ^2/NDF : 1613554.7/59

All: 5686.181 ± 0.485 χ^2/NDF : 3292350.3/11

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 19.226 ± 0.395 χ^2/NDF : 2922.0/31

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

Right Out: -17.529 ± 0.390 χ^2/NDF : 4077.4/34

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

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

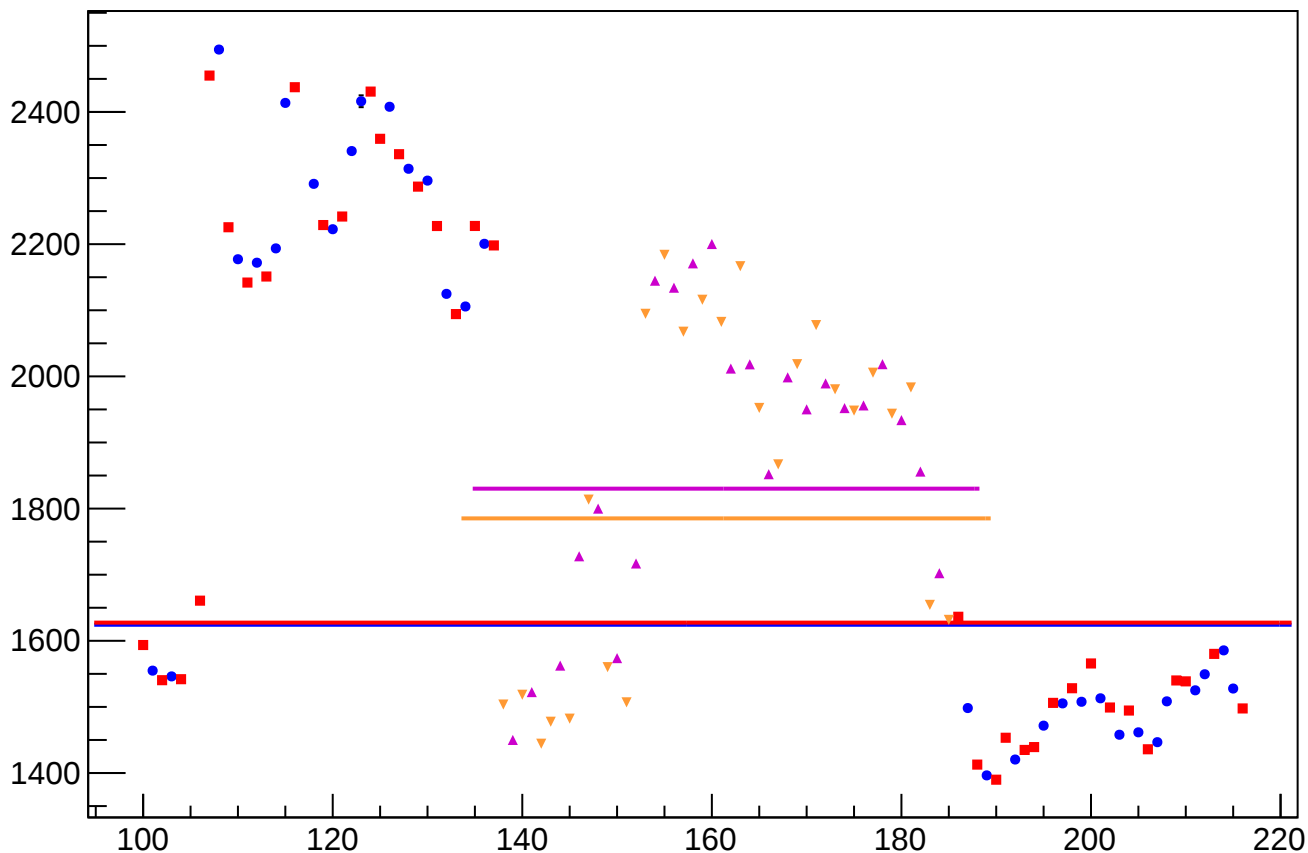
Right: 0.604 ± 0.278 χ^2/NDF : 11379.1/66

In: 8.647 ± 0.295 χ^2/NDF : 4735.2/54

Out: -6.982 ± 0.286 χ^2/NDF : 6024.7/59

All: 0.590 ± 0.205 χ^2/NDF : 12206.3/114

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1624.289 $\pm$ 0.280 χ^2 /NDF: 1103111.0/31

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

Right Out: 1627.509 $\pm$ 0.276 χ^2 /NDF: 1106738.8/34

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

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

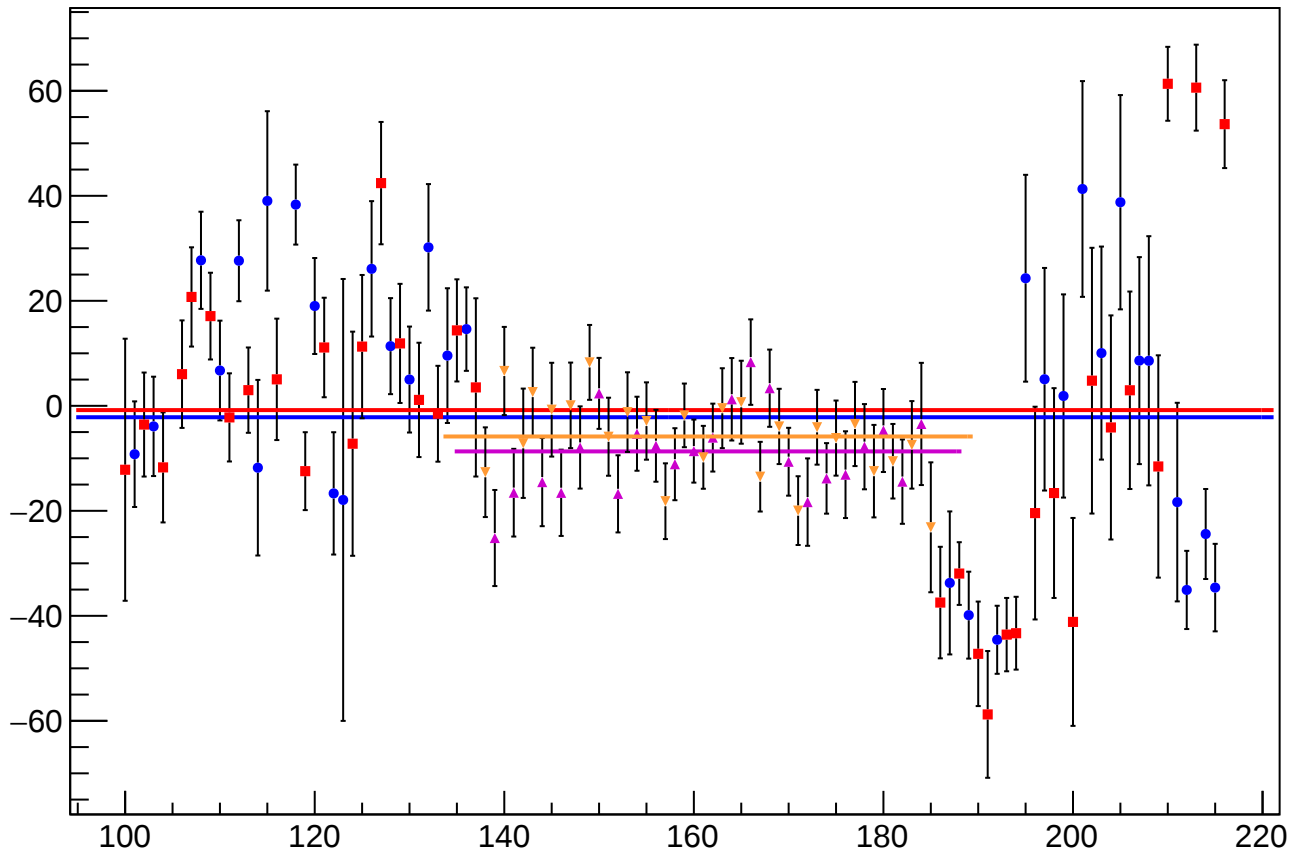
Right: 1625.920 $\pm$ 0.196 χ^2 /NDF: 2209917.0/66

In: 1715.477 $\pm$ 0.209 χ^2 /NDF: 1851750.3/54

Out: 1700.406 $\pm$ 0.202 χ^2 /NDF: 2008419.1/59

All: 1707.708 $\pm$ 0.145 χ^2 /NDF: 3862859.4/11

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: -0.816 ± 1.714 $\chi^2/\text{NDF}: 376.3/34$

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

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

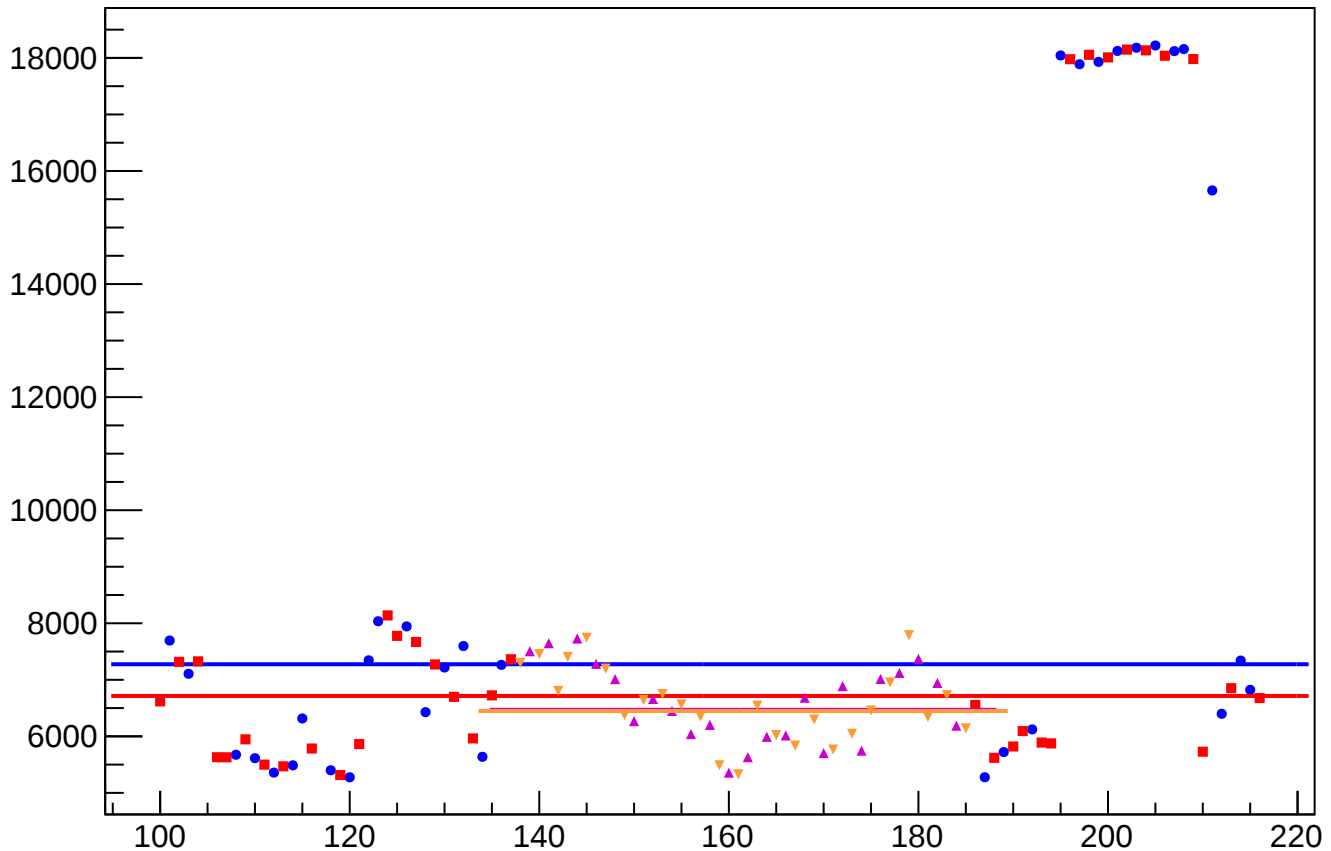
Right: -1.420 ± 1.277 $\chi^2/\text{NDF}: 587.2/66$

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

Out: -3.631 ± 1.137 $\chi^2/\text{NDF}: 404.4/59$

All: -4.767 ± 0.830 $\chi^2/\text{NDF}: 646.0/114$

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: 6714.145 $\pm$ 1.212 χ^2/NDF : 4696247.7/34

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

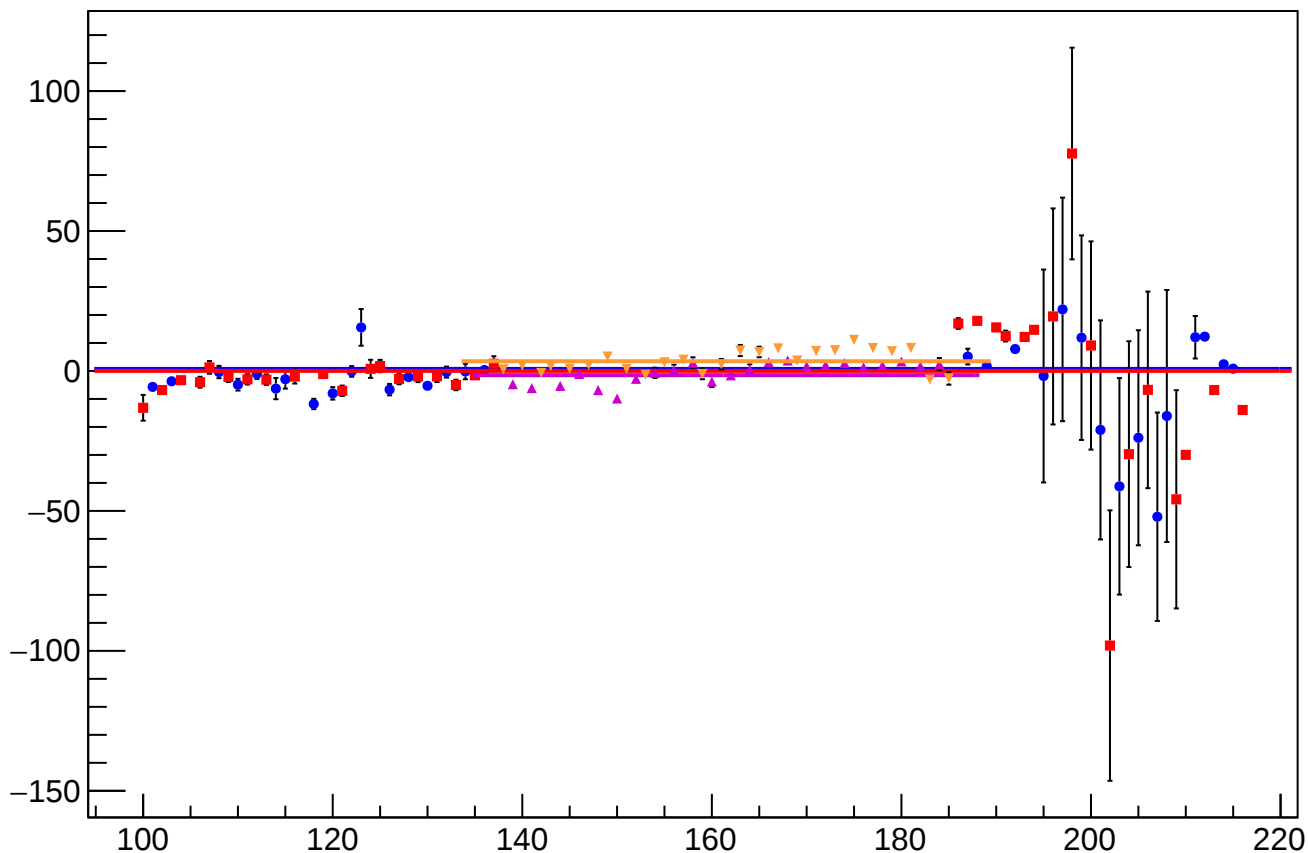
Right: 6963.840 $\pm$ 0.903 χ^2/NDF : 10388745.1/66

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

Out: 6564.859 $\pm$ 0.804 χ^2/NDF : 5094998.0/59

All: 6671.572 $\pm$ 0.587 χ^2/NDF : 11325313.7/13

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: 0.028 ± 0.314 χ^2/NDF : 1536.7/34

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

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

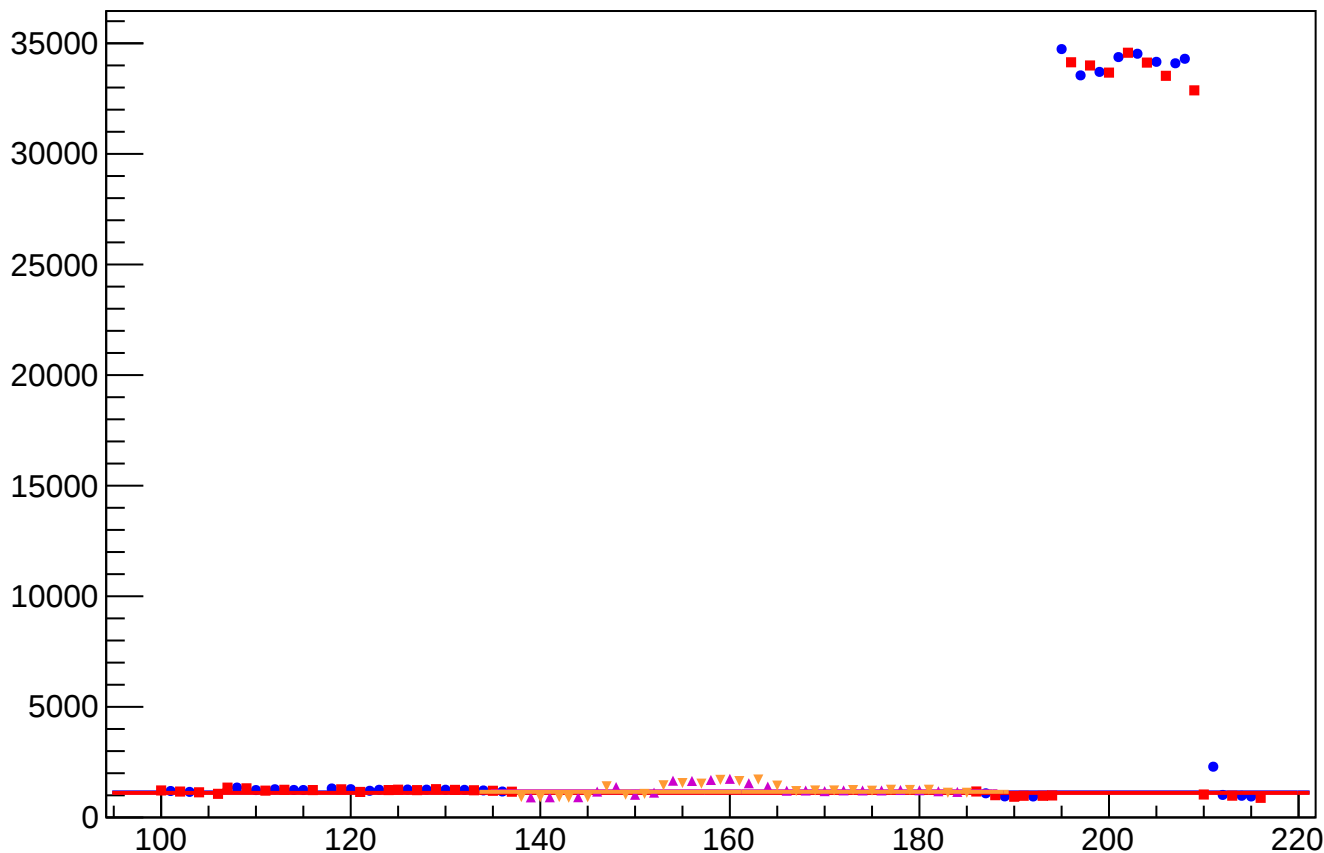
Right: 0.347 ± 0.233 χ^2/NDF : 1831.3/66

In: -0.576 ± 0.222 χ^2/NDF : 519.6/54

Out: 1.970 ± 0.208 χ^2/NDF : 1780.3/59

All: 0.785 ± 0.152 χ^2/NDF : 2369.9/114

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: 1110.891 $\pm$ 0.222 χ^2 /NDF: 10203384.1/34

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

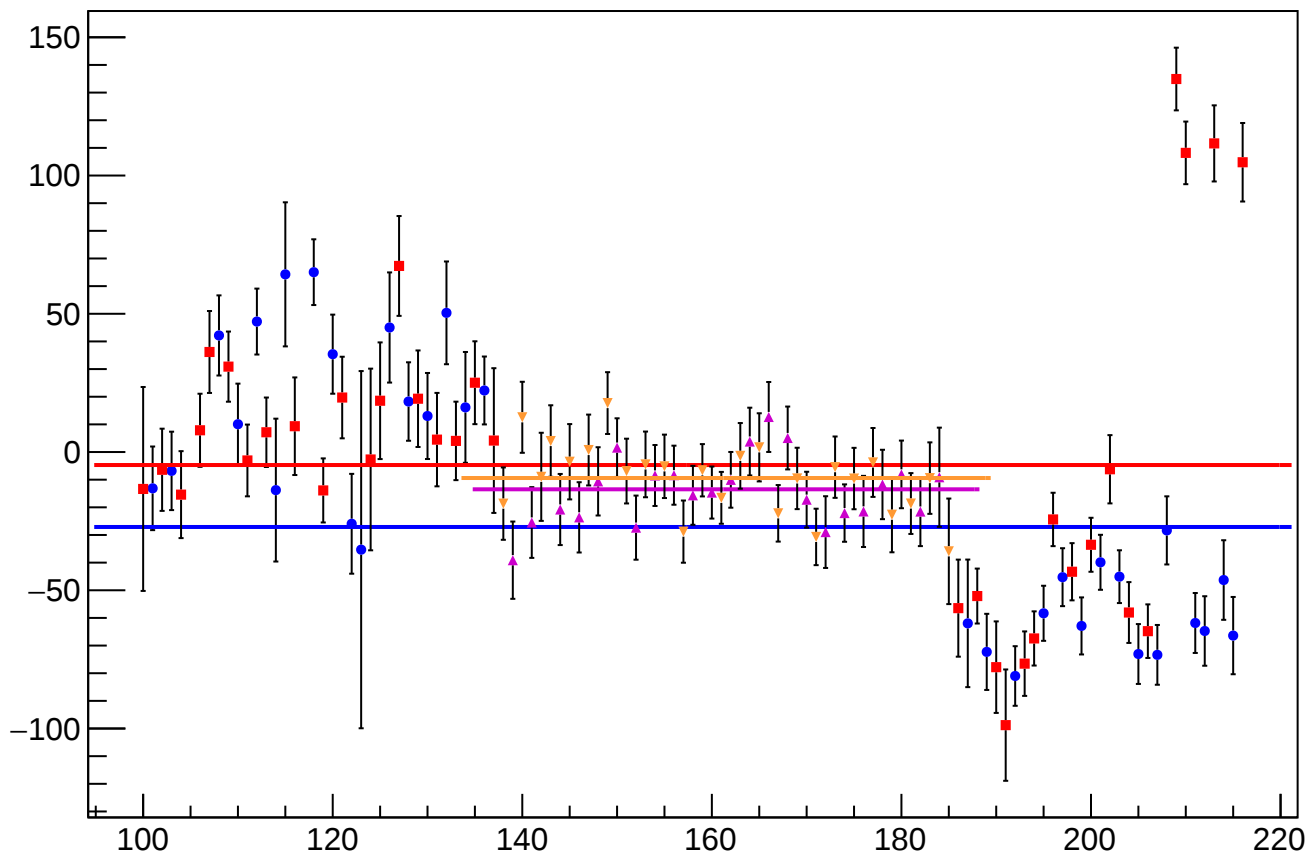
Right: 1121.295 $\pm$ 0.164 χ^2 /NDF: 22116343.2/66

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

Out: 1137.971 $\pm$ 0.147 χ^2 /NDF: 11640106.2/59

All: 1149.987 $\pm$ 0.107 χ^2 /NDF: 24778697.7/131

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -27.108 ± 2.347 χ^2/NDF : 364.3/31

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

Right Out: -4.701 ± 2.257 χ^2/NDF : 668.0/34

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

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

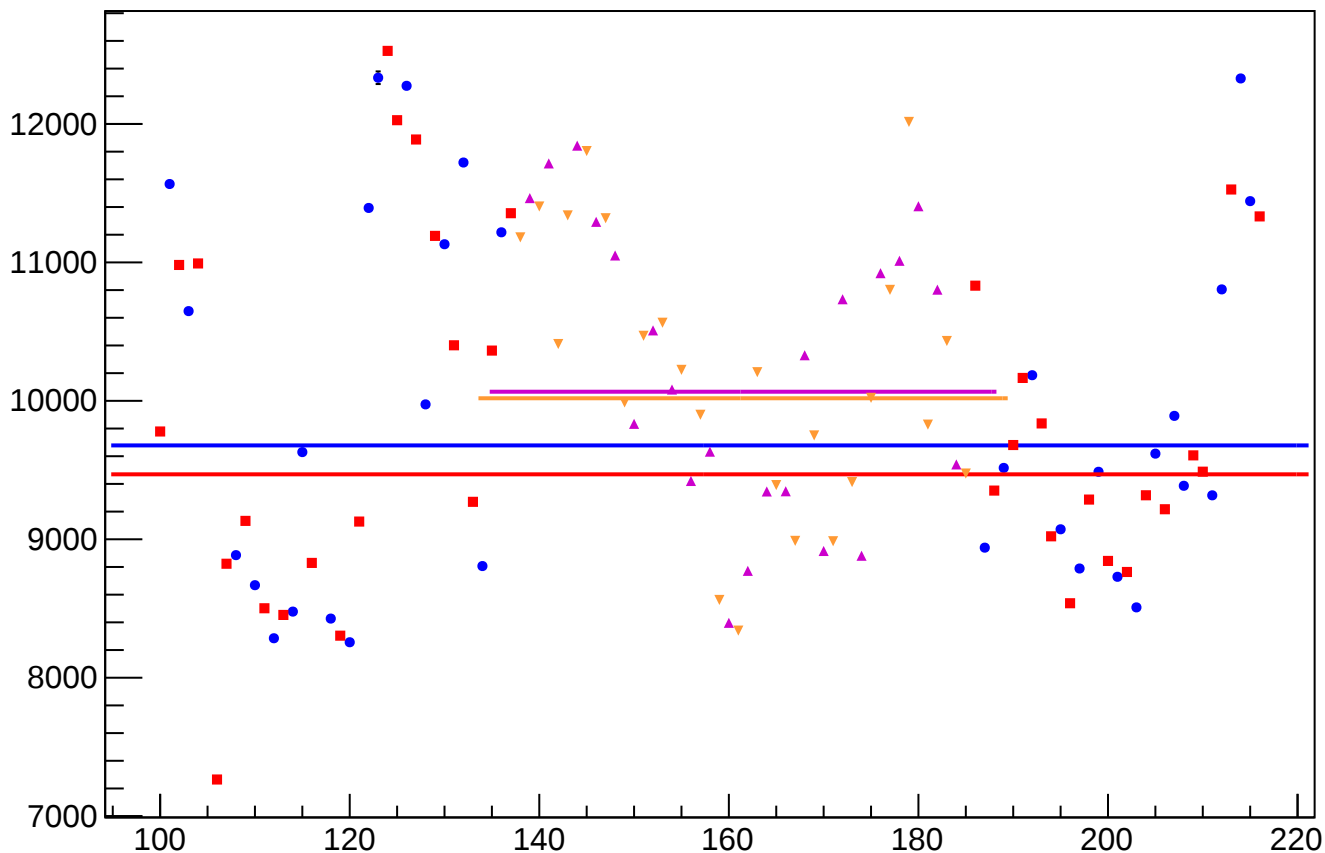
Right: -15.466 ± 1.627 χ^2/NDF : 1079.7/66

In: -20.570 ± 1.692 χ^2/NDF : 402.0/54

Out: -6.946 ± 1.631 χ^2/NDF : 696.4/59

All: -13.504 ± 1.174 χ^2/NDF : 1132.0/114

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9678.079 ± 1.659 $\chi^2/\text{NDF}: 460194.0/31$

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

Right Out: 9469.243 ± 1.596 $\chi^2/\text{NDF}: 410984.2/34$

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

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

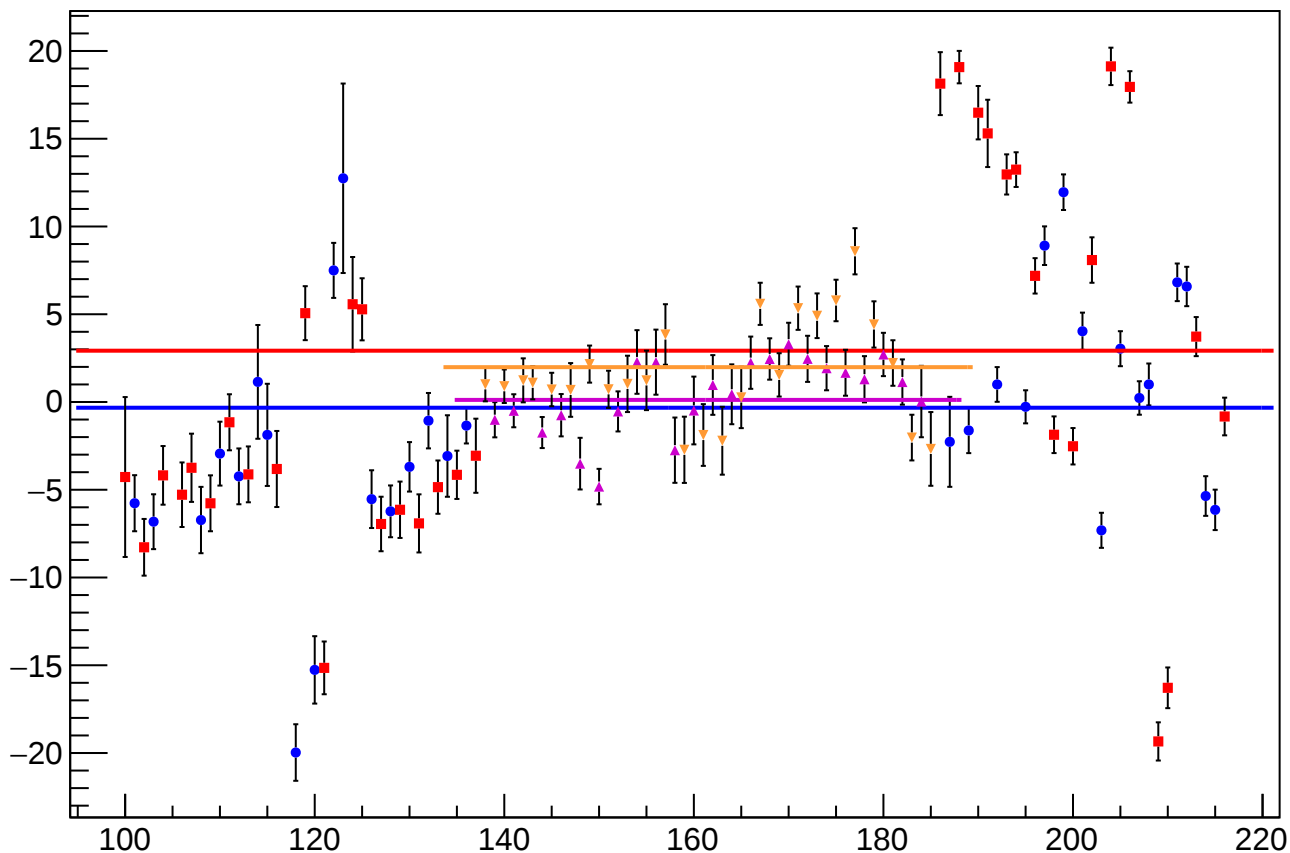
Right: 9569.577 ± 1.150 $\chi^2/\text{NDF}: 879406.9/66$

In: 9864.220 ± 1.197 $\chi^2/\text{NDF}: 844279.2/54$

Out: 9731.796 ± 1.153 $\chi^2/\text{NDF}: 812158.3/59$

All: 9795.545 ± 0.830 $\chi^2/\text{NDF}: 1662788.0/11$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.326 ± 0.232 $\chi^2/\text{NDF}: 750.1/31$

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

Right Out: 2.923 ± 0.228 $\chi^2/\text{NDF}: 2469.1/34$

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

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

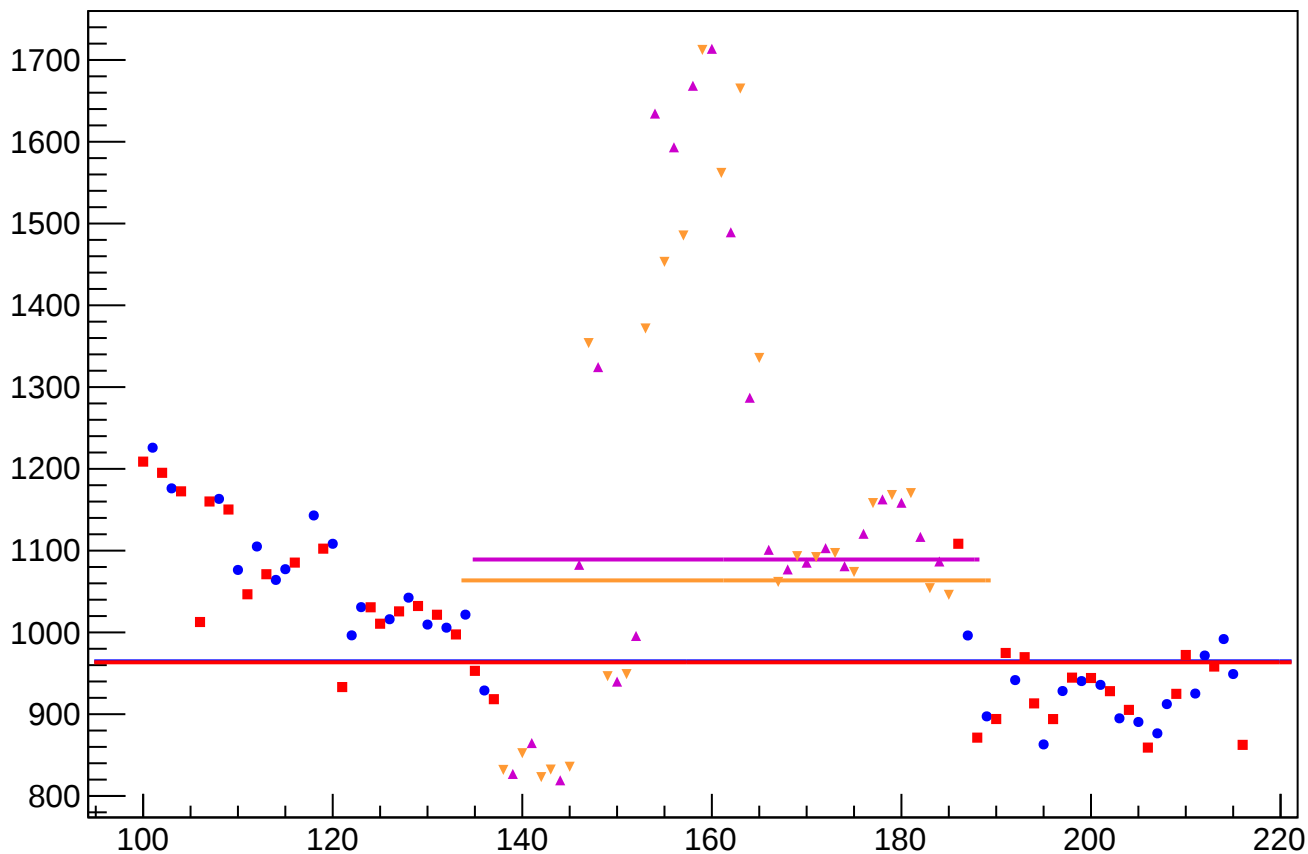
Right: 1.325 ± 0.163 $\chi^2/\text{NDF}: 3319.0/66$

In: -0.136 ± 0.176 $\chi^2/\text{NDF}: 819.3/54$

Out: 2.506 ± 0.170 $\chi^2/\text{NDF}: 2577.8/59$

All: 1.228 ± 0.122 $\chi^2/\text{NDF}: 3514.0/114$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 964.625 ± 0.164 χ^2/NDF : 272552.2/31

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

Right Out: 963.443 ± 0.161 χ^2/NDF : 287994.7/34

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

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

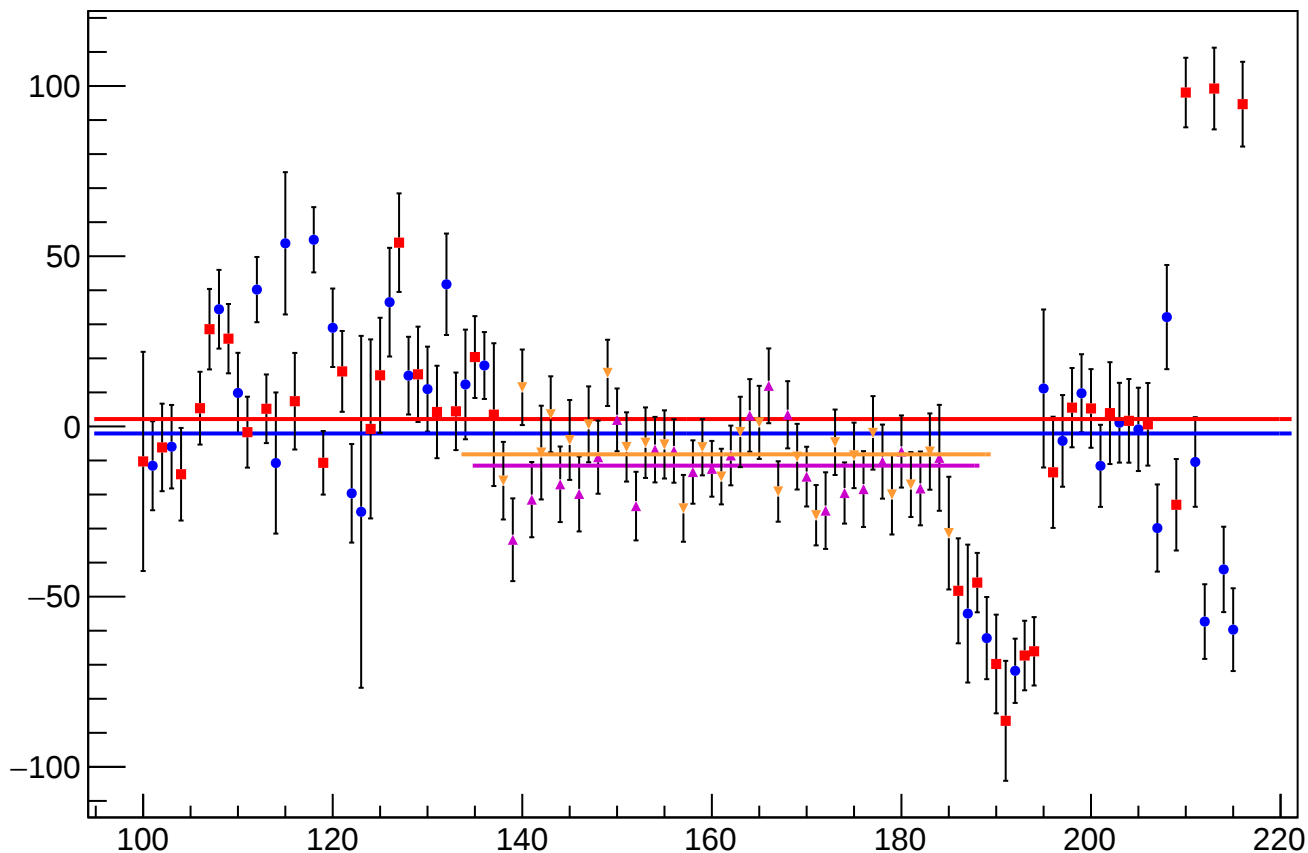
Right: 964.024 ± 0.115 χ^2/NDF : 560573.3/66

In: 1017.809 ± 0.124 χ^2/NDF : 1949157.1/54

Out: 1008.012 ± 0.120 χ^2/NDF : 2076867.7/59

All: 1012.751 ± 0.086 χ^2/NDF : 4029238.5/11

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -2.066 ± 2.253 $\chi^2/\text{NDF}: 261.7/31$

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

Right Out: 2.167 ± 2.096 $\chi^2/\text{NDF}: 429.4/34$

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

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

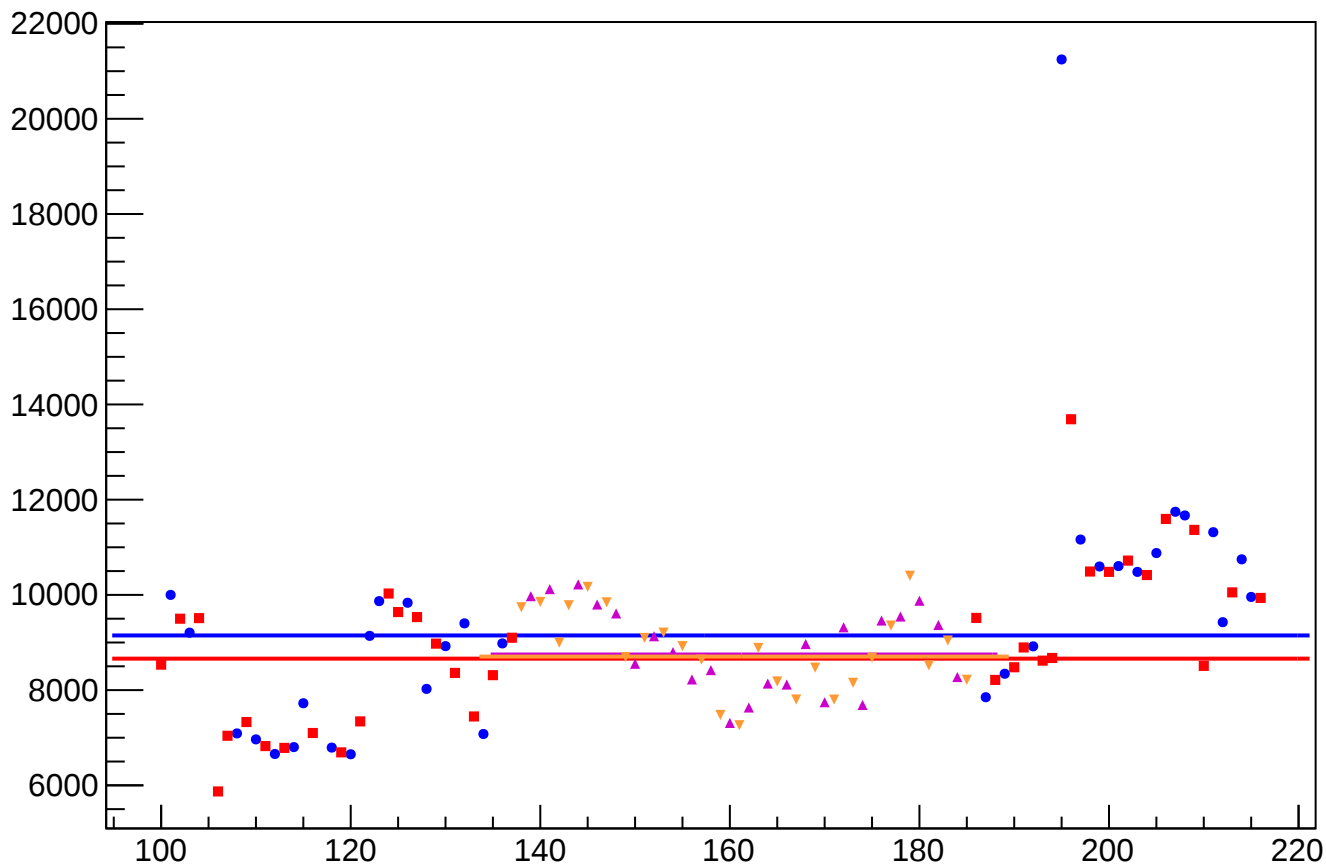
Right: 0.203 ± 1.535 $\chi^2/\text{NDF}: 693.0/66$

In: -7.073 ± 1.545 $\chi^2/\text{NDF}: 292.1/54$

Out: -3.133 ± 1.465 $\chi^2/\text{NDF}: 468.0/59$

All: -4.999 ± 1.063 $\chi^2/\text{NDF}: 763.5/114$

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: 8660.901 ± 1.482 $\chi^2/\text{NDF}: 1165862.9/34$

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

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

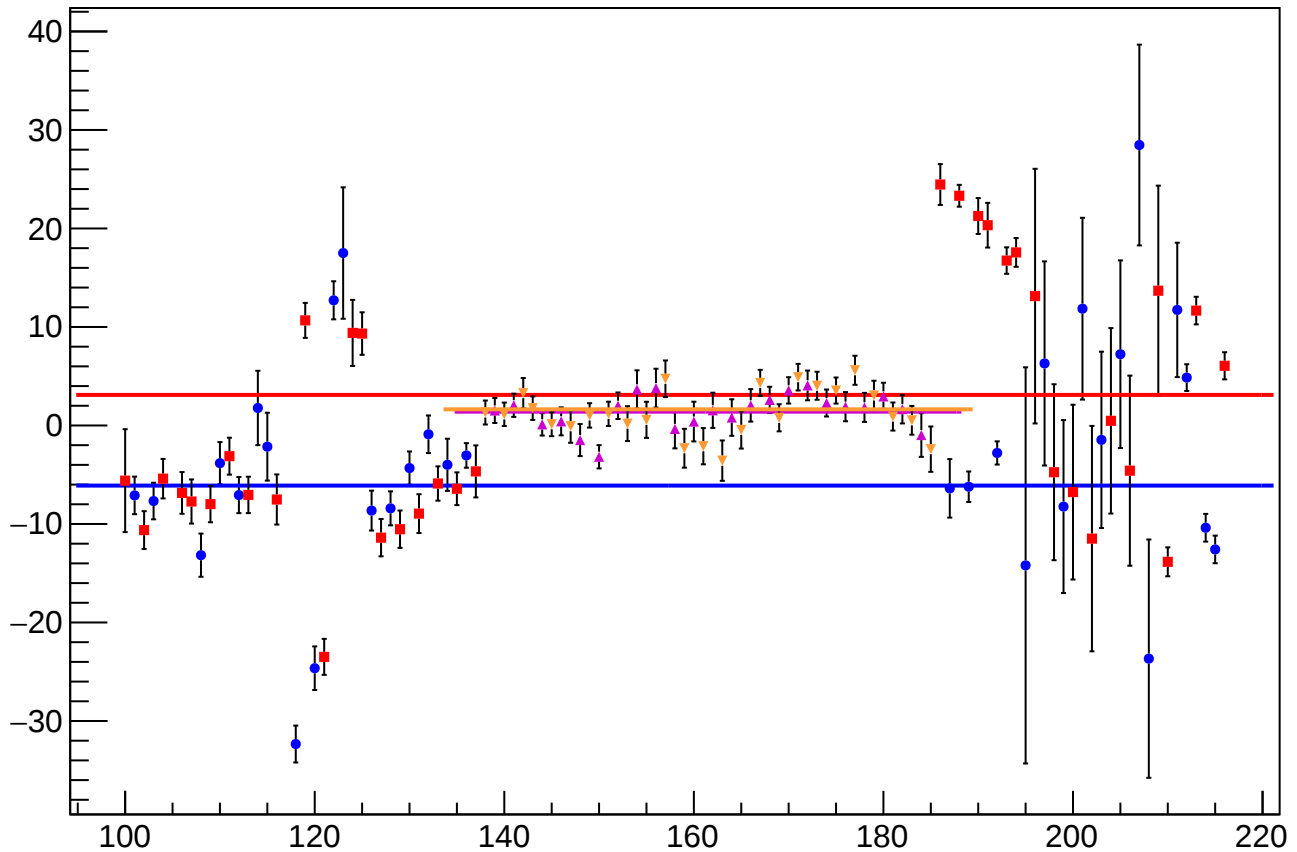
Right: 8886.920 ± 1.085 $\chi^2/\text{NDF}: 2766320.8/66$

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

Out: 8683.047 ± 1.036 $\chi^2/\text{NDF}: 1498663.4/59$

All: 8802.702 ± 0.752 $\chi^2/\text{NDF}: 3457797.7/11$

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: 3.103 $\pm$ 0.339 χ^2/NDF : 1647.5/34

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

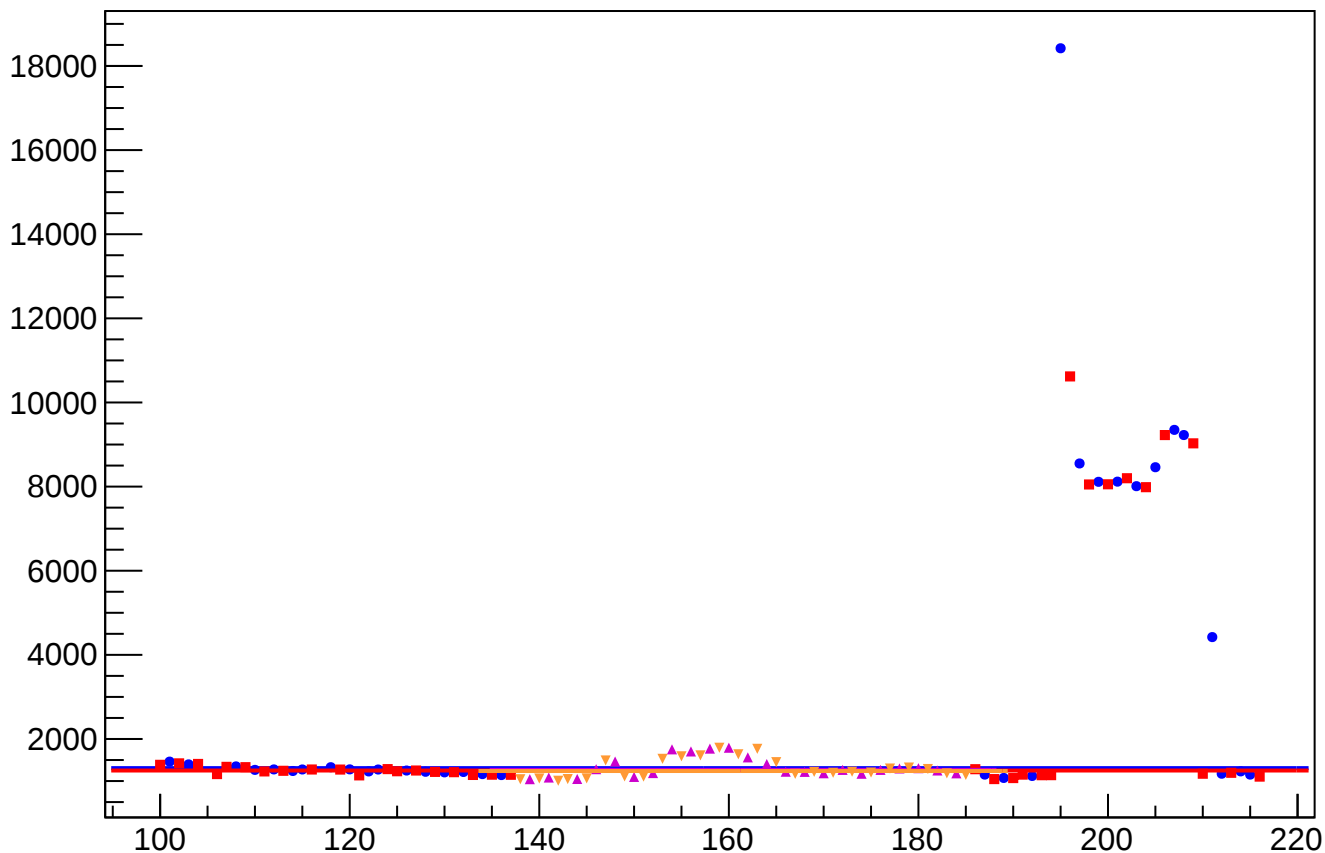
Right: -1.038 $\pm$ 0.251 χ^2/NDF : 2522.6/66

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

Out: 2.267 $\pm$ 0.222 χ^2/NDF : 1709.5/59

All: 0.456 $\pm$ 0.162 χ^2/NDF : 2669.1/114

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1307.116 $\pm$ 0.265 χ^2/NDF : 9721719.9/31

Left Out: 1238.437 $\pm$ 0.208 χ^2/NDF : 965173.0/24

Right Out: 1250.512 $\pm$ 0.240 χ^2/NDF : 7791571.4/34

Left In: 1265.673 $\pm$ 0.218 χ^2/NDF : 845157.0/22

Left: 1251.361 $\pm$ 0.151 χ^2/NDF : 1818496.6/47

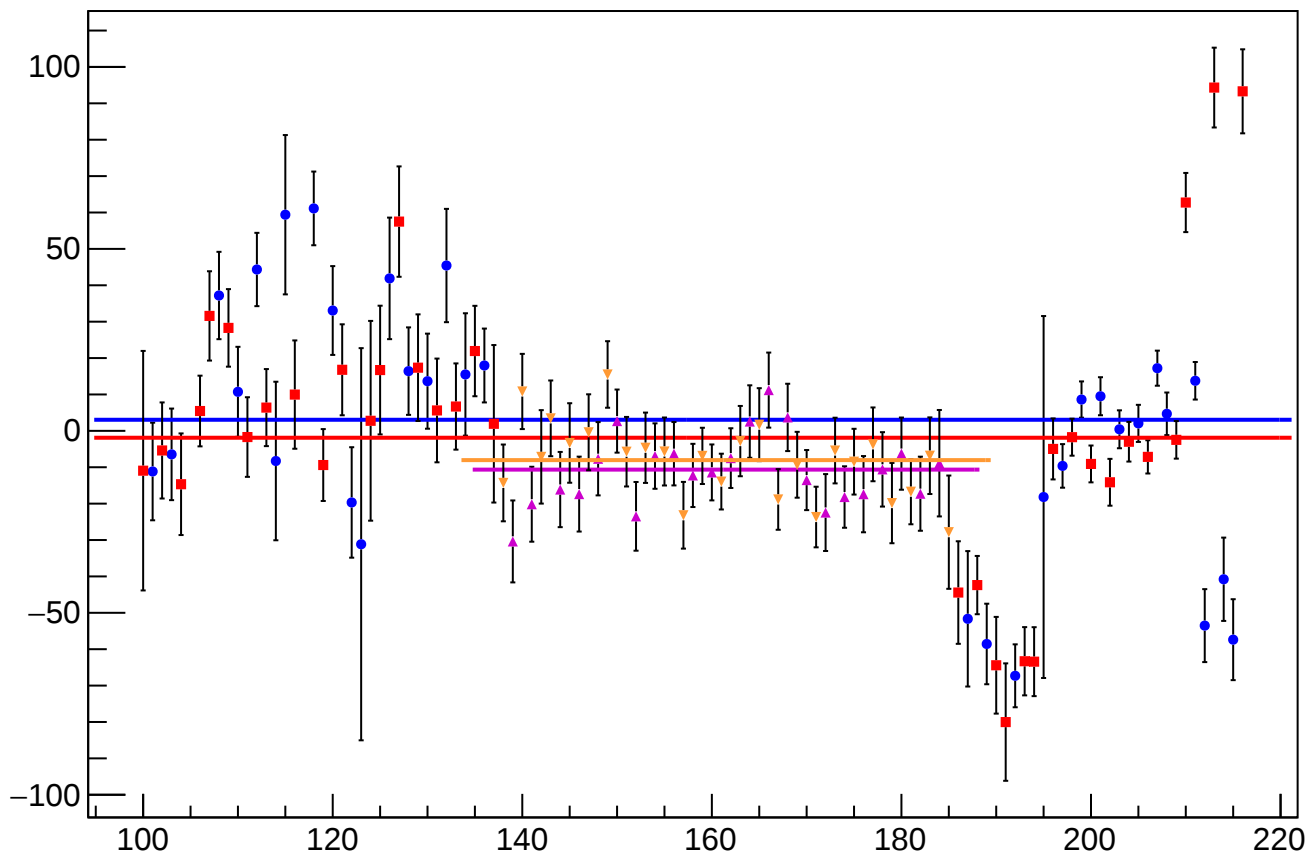
Right: 1275.979 $\pm$ 0.178 χ^2/NDF : 17538406.2/66

In: 1282.451 $\pm$ 0.169 χ^2/NDF : 10581442.9/54

Out: 1243.616 $\pm$ 0.157 χ^2/NDF : 8758195.3/59

All: 1261.644 $\pm$ 0.115 χ^2/NDF : 19368080.2/122

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: -1.893 ± 1.526 $\chi^2/\text{NDF}: 424.5/34$

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

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

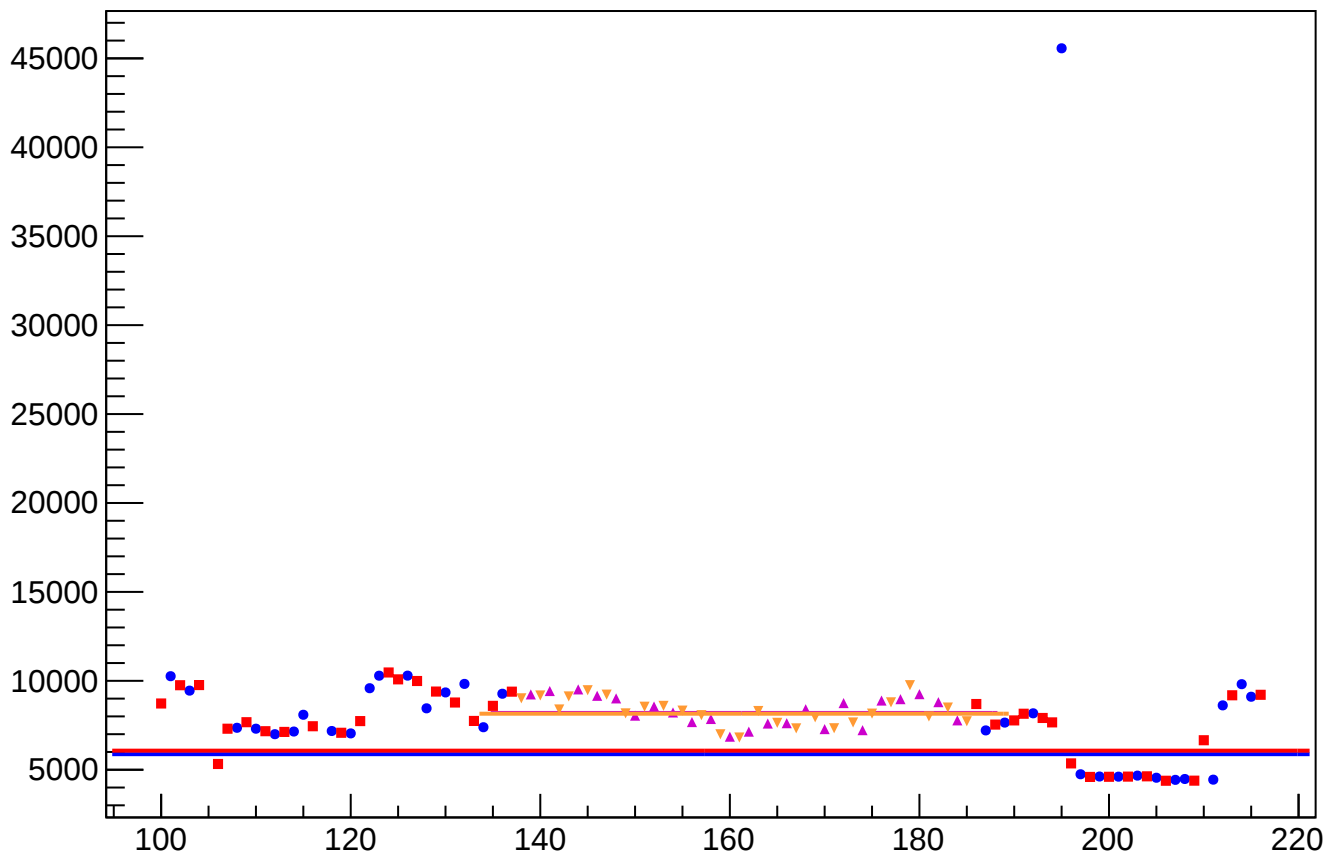
Right: 0.592 ± 1.076 $\chi^2/\text{NDF}: 725.3/66$

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

Out: -4.277 ± 1.194 $\chi^2/\text{NDF}: 457.1/59$

All: -3.147 ± 0.848 $\chi^2/\text{NDF}: 805.9/114$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5875.934+/-1.072

χ^2/NDF : 4448397.8/31

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

Right Out: 6073.500+/-1.079

χ^2/NDF : 2867980.5/34

Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

Left: 8171.814+/-0.976

χ^2/NDF : 660646.6/47

Right: 5974.106+/-0.761

χ^2/NDF : 7333241.5/66

In: 6728.862+/-0.853

χ^2/NDF : 6505529.9/54

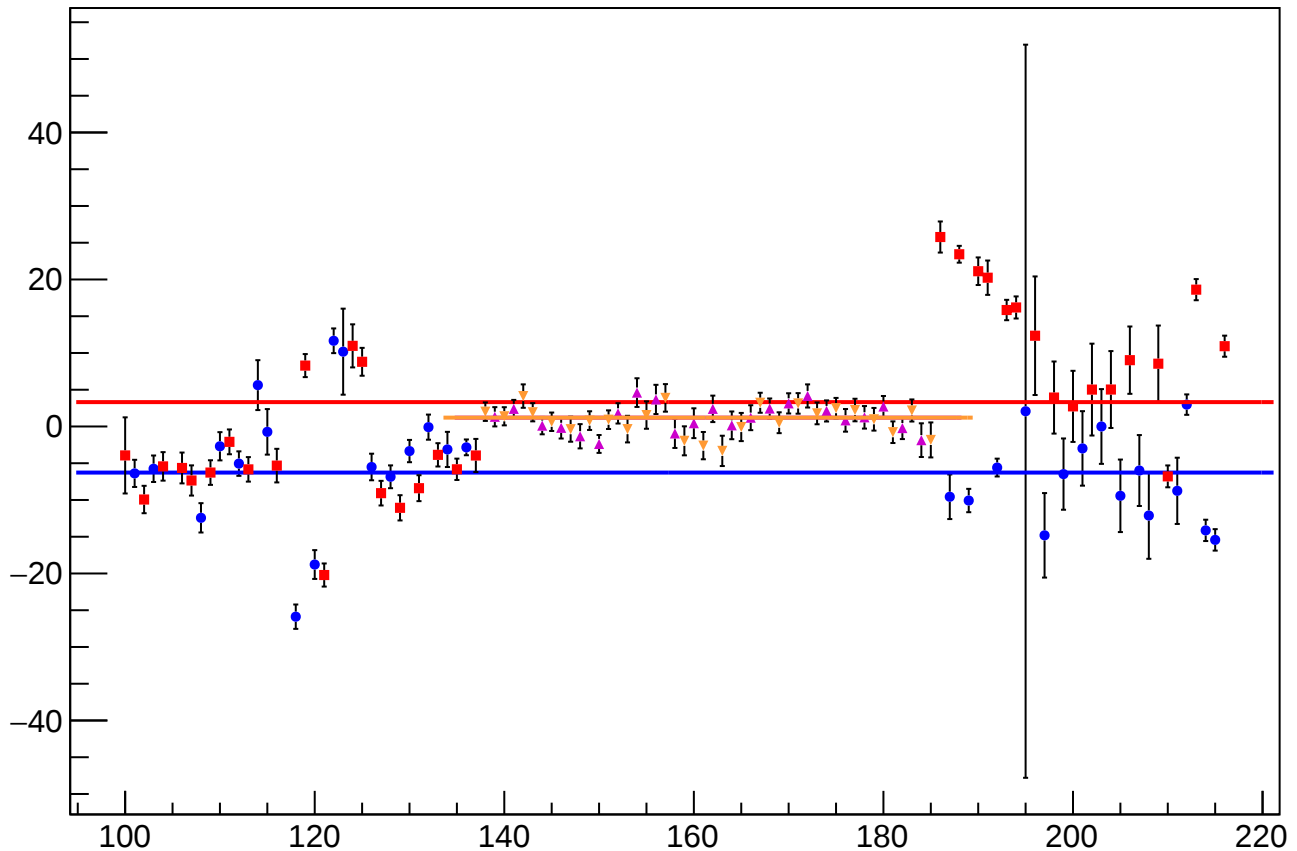
Out: 6878.979+/-0.844

χ^2/NDF : 4627152.8/59

All: 6804.639+/-0.600

χ^2/NDF : 11148332.3/1

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.272 ± 0.350 χ^2/NDF : 486.6/31

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

Right Out: 3.315 ± 0.321 χ^2/NDF : 1604.3/34

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

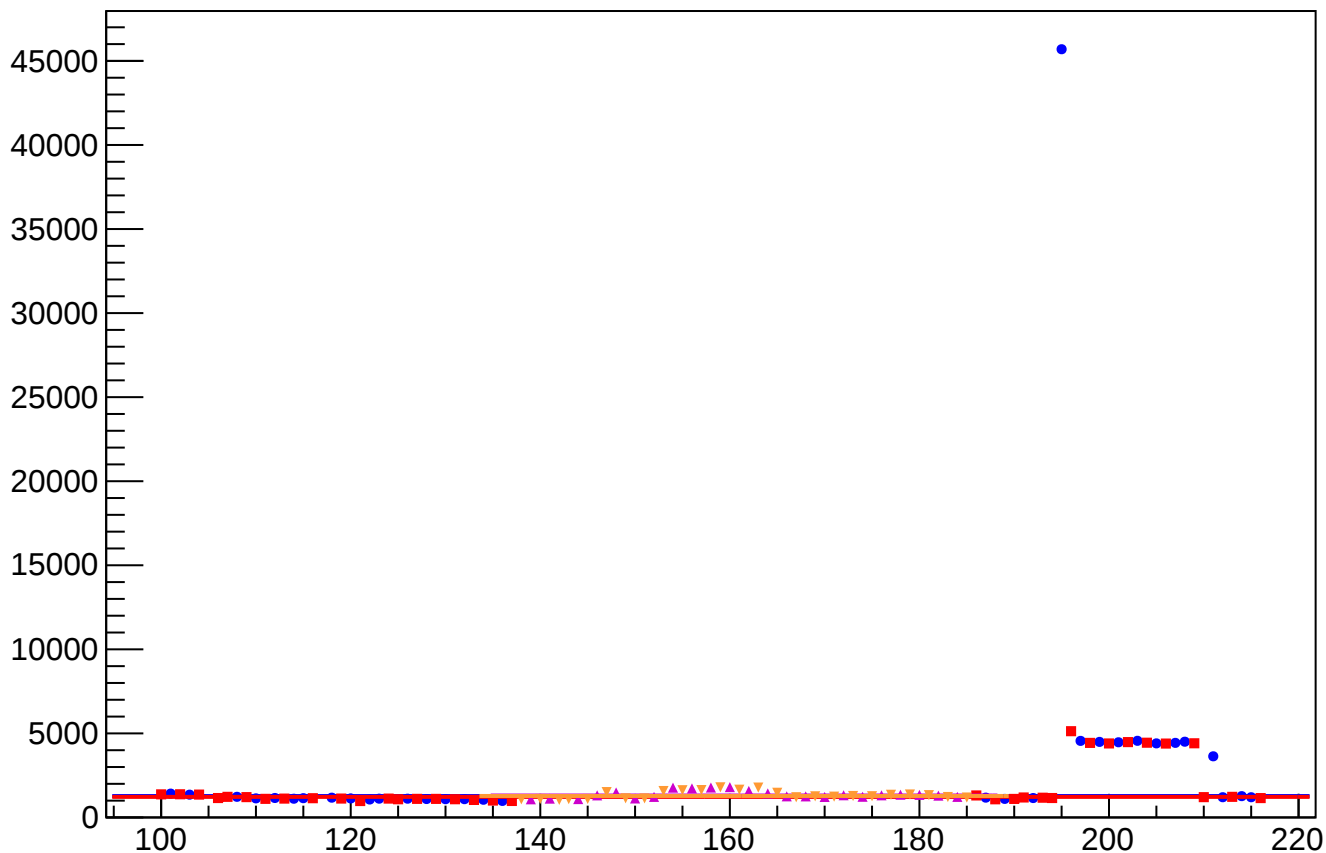
Right: -1.073 ± 0.237 χ^2/NDF : 2498.5/66

In: -2.185 ± 0.235 χ^2/NDF : 767.4/54

Out: 2.196 ± 0.220 χ^2/NDF : 1657.2/59

All: 0.150 ± 0.161 χ^2/NDF : 2609.3/114

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1272.836 +/- 0.247 χ^2/NDF : 7977501.2/31

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

Right Out: 1224.088 +/- 0.227 χ^2/NDF : 5506415.9/34

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

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

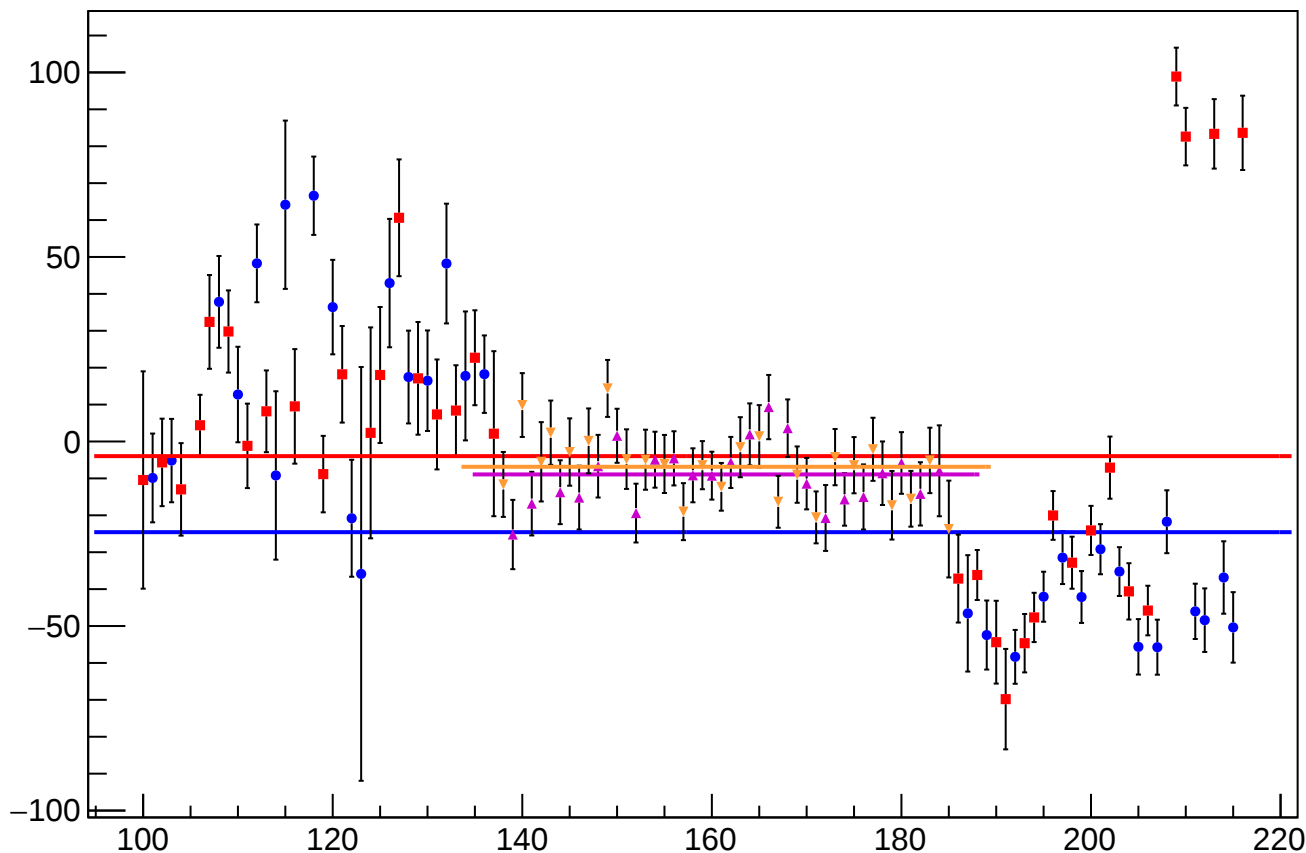
Right: 1246.403 +/- 0.167 χ^2/NDF : 13504995.6/66

In: 1290.728 +/- 0.166 χ^2/NDF : 8747524.4/54

Out: 1252.625 +/- 0.156 χ^2/NDF : 6414309.7/59

All: 1270.415 +/- 0.114 χ^2/NDF : 15189789.3/100

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: -3.966 ± 1.658 χ^2/NDF : 759.8/34

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

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

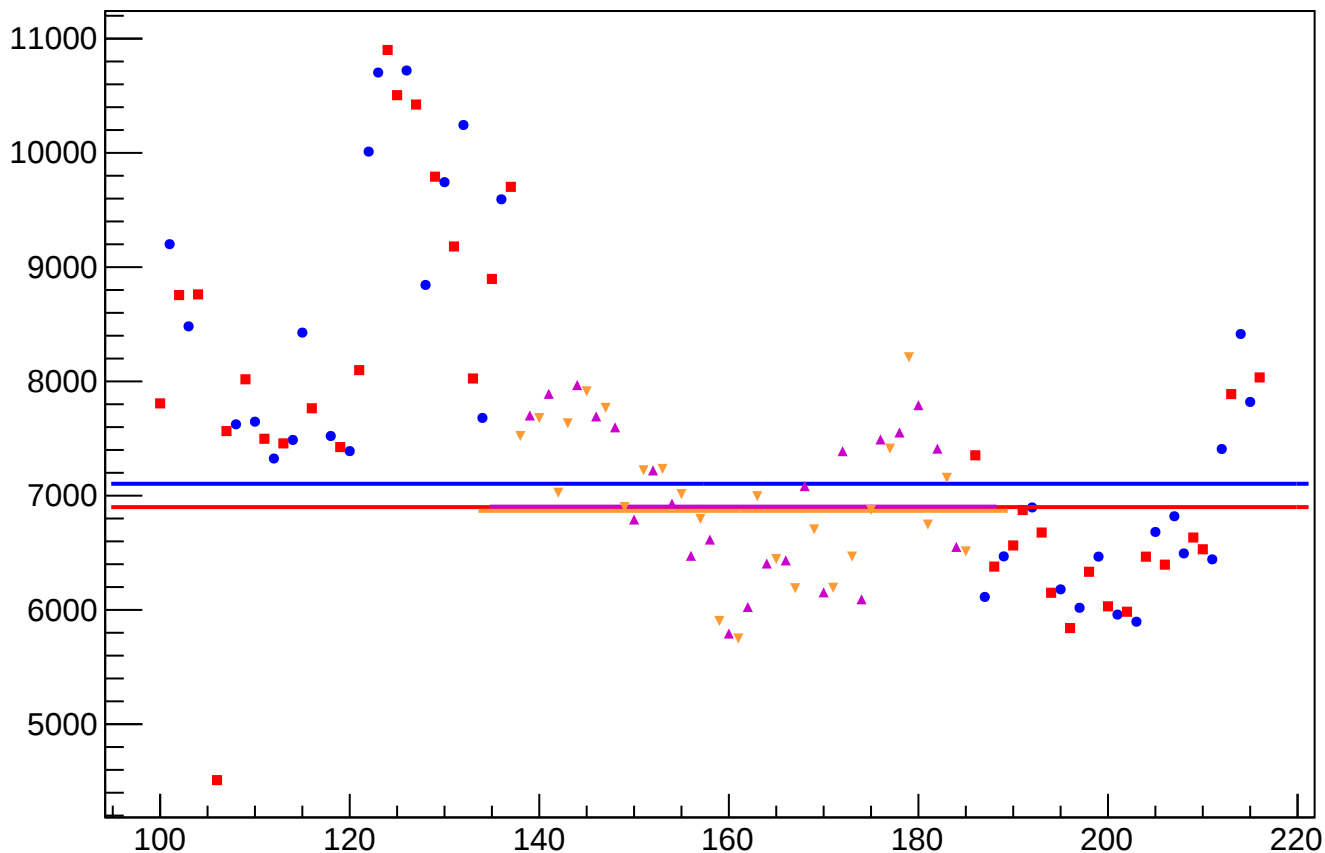
Right: -13.809 ± 1.198 χ^2/NDF : 1218.1/66

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

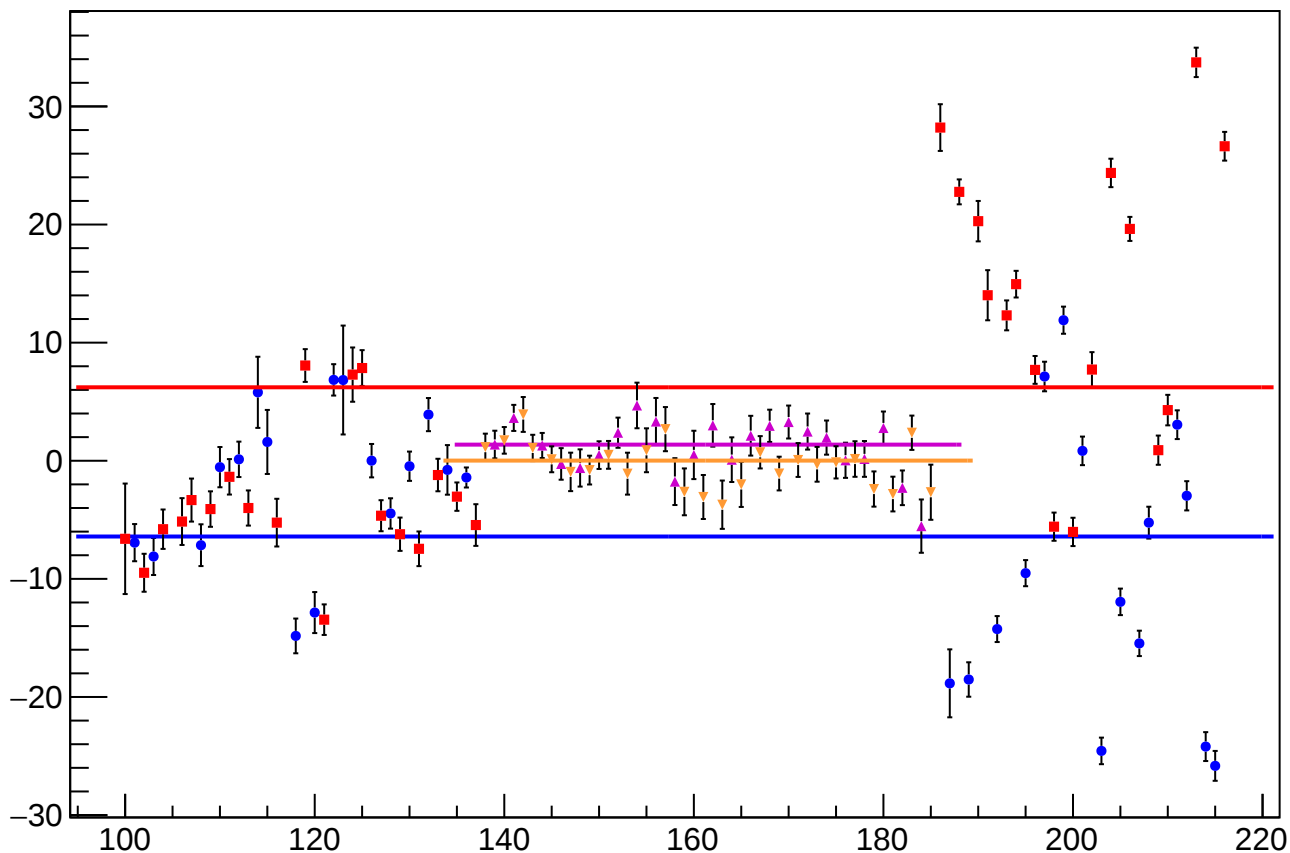
Out: -5.447 ± 1.157 χ^2/NDF : 790.0/59

All: -10.741 ± 0.834 χ^2/NDF : 1282.1/114

diff_bpm0l10X_rms vs Slug, Sign Corrected



diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -6.414 $\pm$ 0.240 χ^2/NDF : 1779.6/31

Left Out: 0.014 $\pm$ 0.290 χ^2/NDF :35.0/24

Right Out: 6.219 $\pm$ 0.238 χ^2/NDF : 2896.7/34

Left In: 1.365 $\pm$ 0.306 χ^2/NDF :38.5/22

Left: 0.654 $\pm$ 0.210 χ^2/NDF : 83.8/47

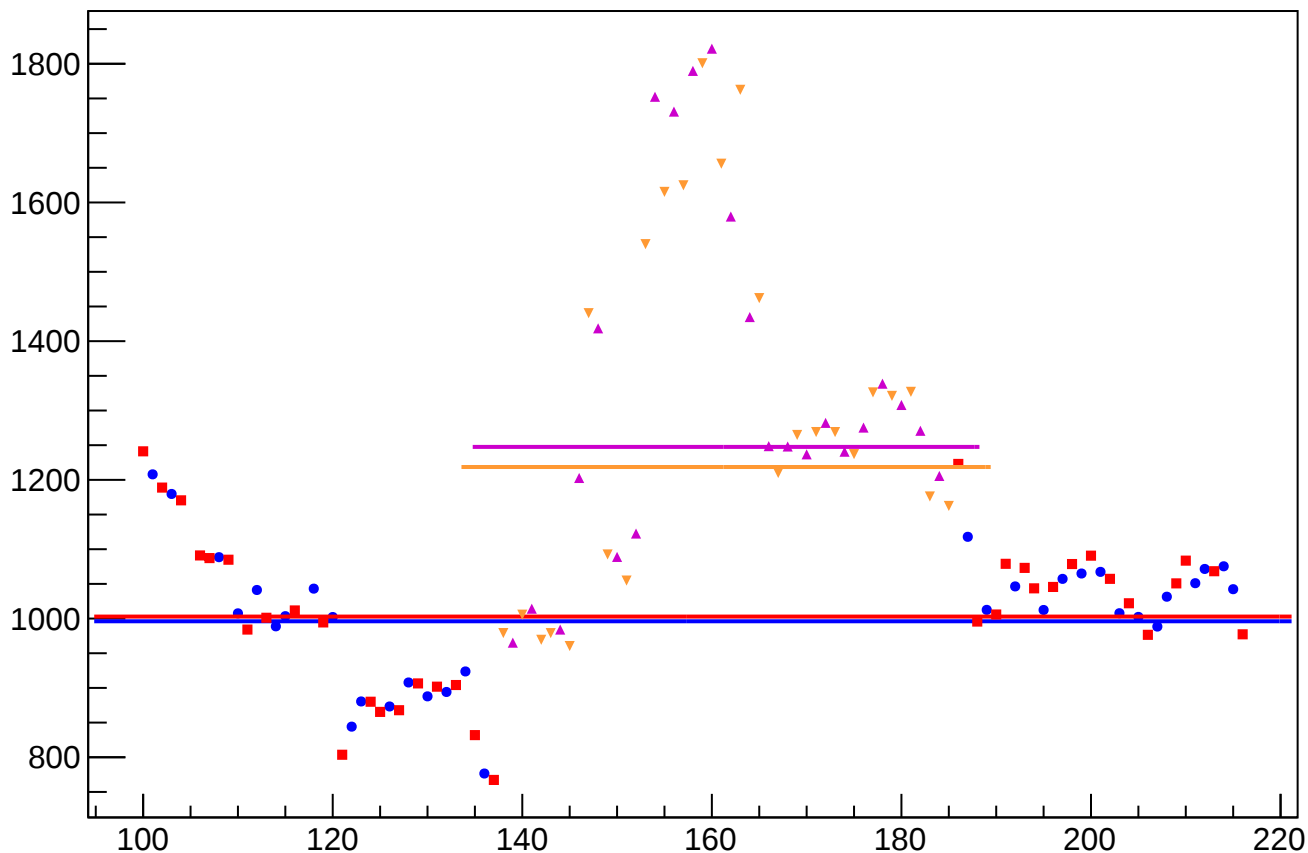
Right: -0.043 $\pm$ 0.169 χ^2/NDF : 6076.4/66

In: -3.449 $\pm$ 0.189 χ^2/NDF :2219.4/54

Out: 3.725 $\pm$ 0.184 χ^2/NDF :3205.6/59

All: 0.230 $\pm$ 0.132 χ^2/NDF : 6166.8/114

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 996.087 $\pm$ 0.170 χ^2 /NDF: 339119.7/31

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

Right Out: 1002.869 $\pm$ 0.168 χ^2 /NDF: 342195.1/34

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

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

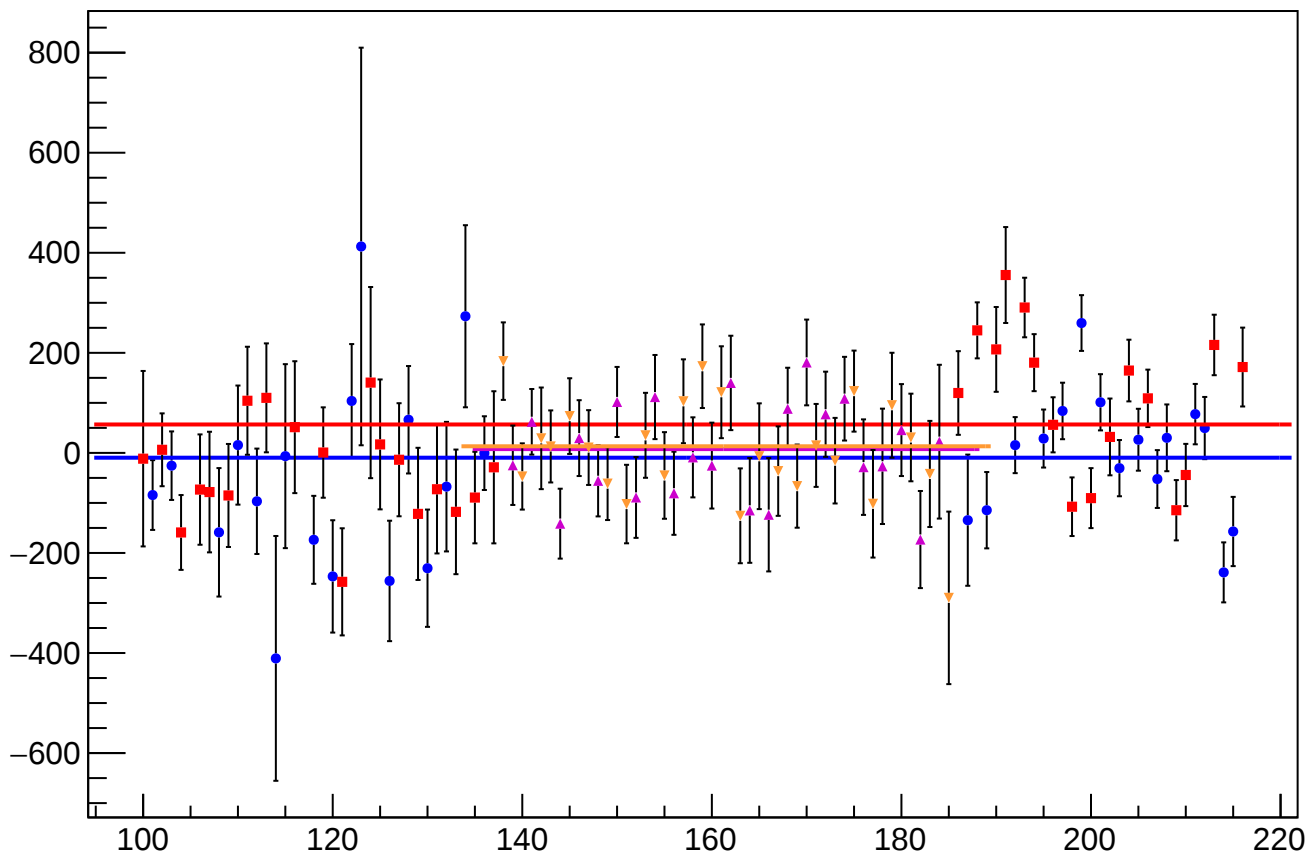
Right: 999.507 $\pm$ 0.119 χ^2 /NDF: 682121.8/66

In: 1091.932 $\pm$ 0.133 χ^2 /NDF:2250983.4/54

Out: 1089.568 $\pm$ 0.130 χ^2 /NDF:2269895.3/59

All: 1090.719 $\pm$ 0.093 χ^2 /NDF: 4521039.8/11

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -9.606 $\pm$ 13.606 χ^2/NDF : 83.8/31

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

Right Out: 56.805 $\pm$ 13.487 χ^2/NDF : 113.8/34

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

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

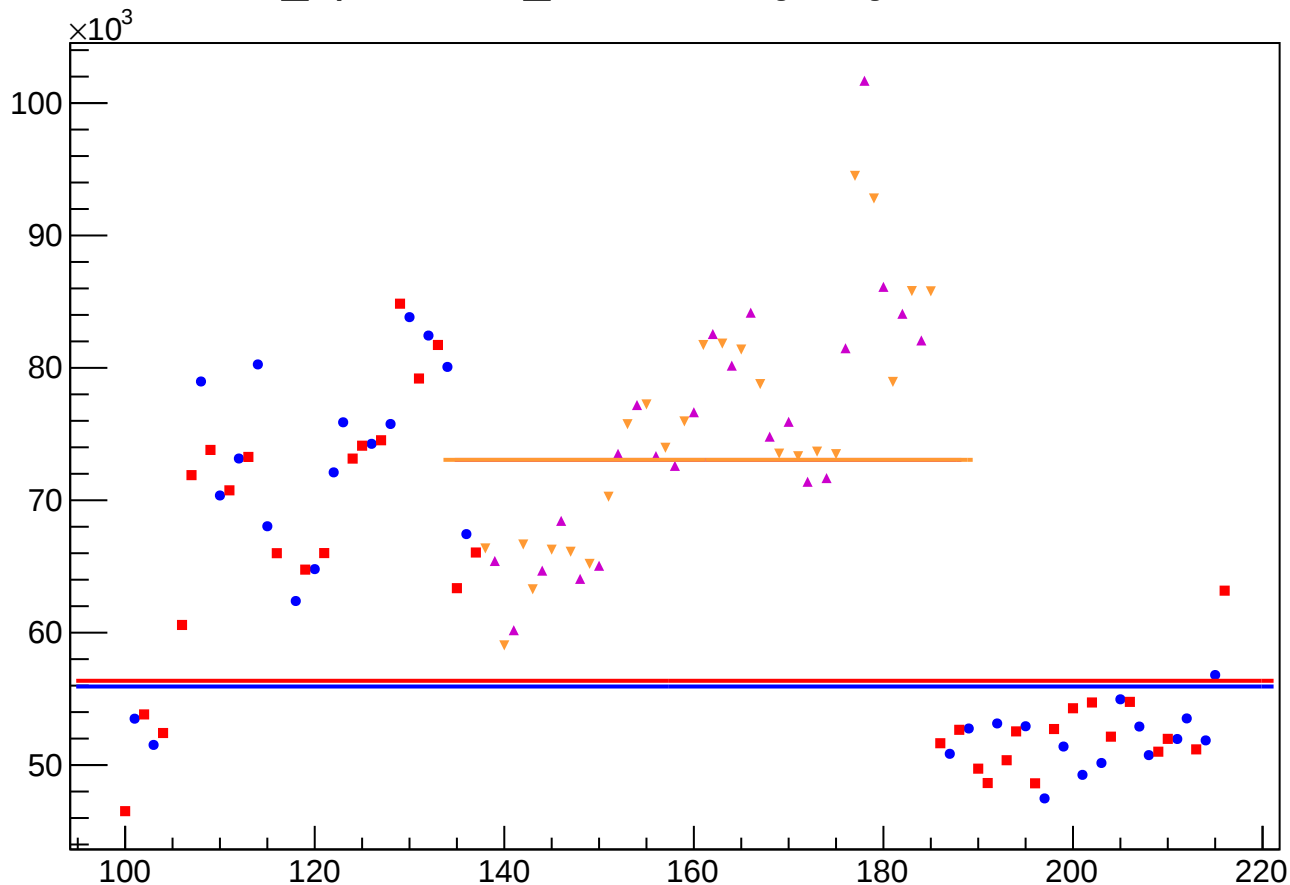
Right: 23.892 $\pm$ 9.578 χ^2/NDF : 209.6/66

In: -3.196 $\pm$ 10.781 χ^2/NDF : 112.5/54

Out: 40.141 $\pm$ 10.600 χ^2/NDF : 144.6/59

All: 18.838 $\pm$ 7.559 χ^2/NDF : 265.3/114

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 55932.372 $\pm$ 9.621 χ^2/NDF : 814226.4/31

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

Right Out: 56365.251 $\pm$ 9.536 χ^2/NDF : 785895.7/34

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

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

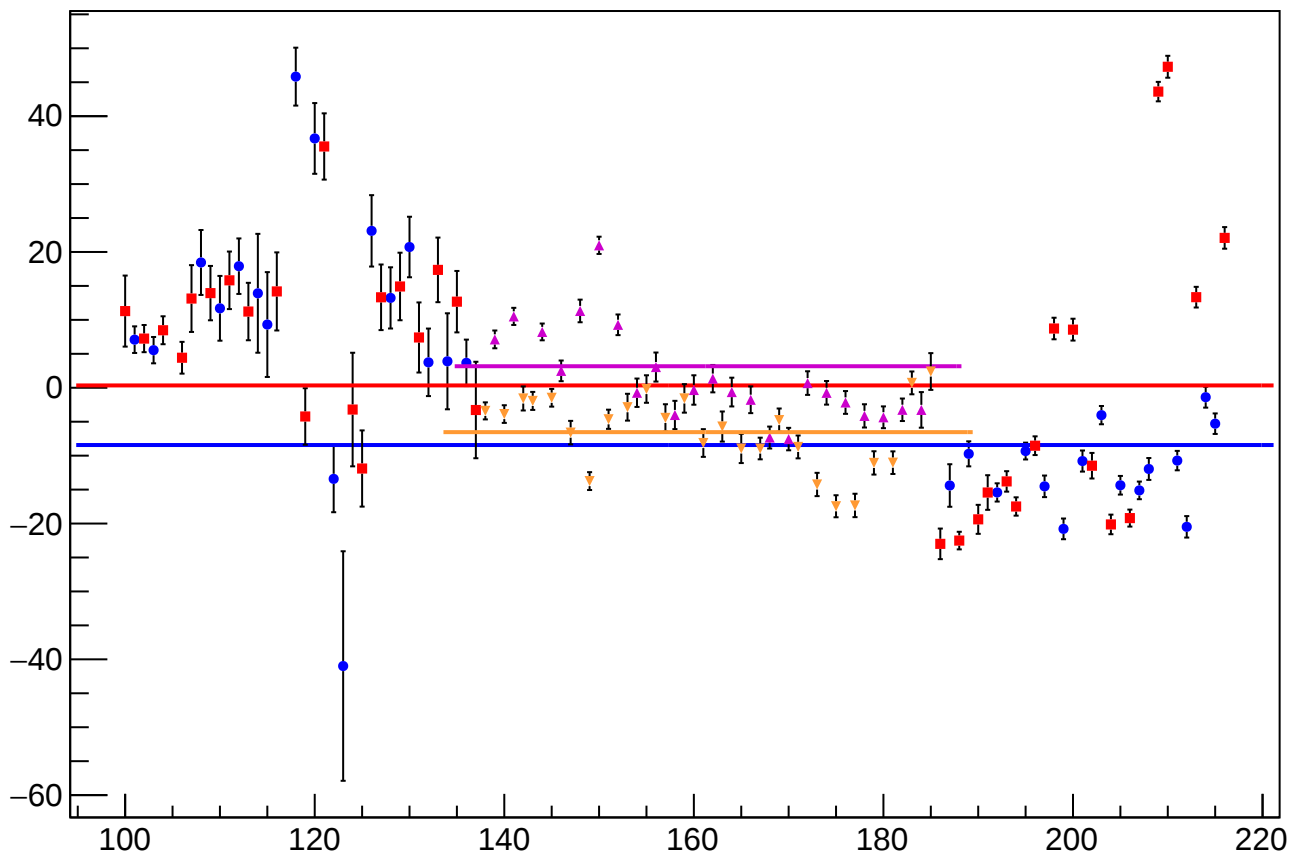
Right: 56150.720 $\pm$ 6.773 χ^2/NDF : 1601143.2/66

In: 62301.526 $\pm$ 7.623 χ^2/NDF : 2455284.1/54

Out: 62744.122 $\pm$ 7.496 χ^2/NDF : 2429527.0/59

All: 62526.559 $\pm$ 5.345 χ^2/NDF : 4886525.0/116

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.435 $\pm$ 0.359 χ^2/NDF : 843.2/31

Left Out: -6.537 $\pm$ 0.332 χ^2/NDF : 252.7/24

Right Out: 0.343 $\pm$ 0.356 χ^2/NDF : 3576.9/34

Left In: 3.171 $\pm$ 0.346 χ^2/NDF : 487.3/22

Left: -1.892 $\pm$ 0.240 χ^2/NDF : 1149.5/47

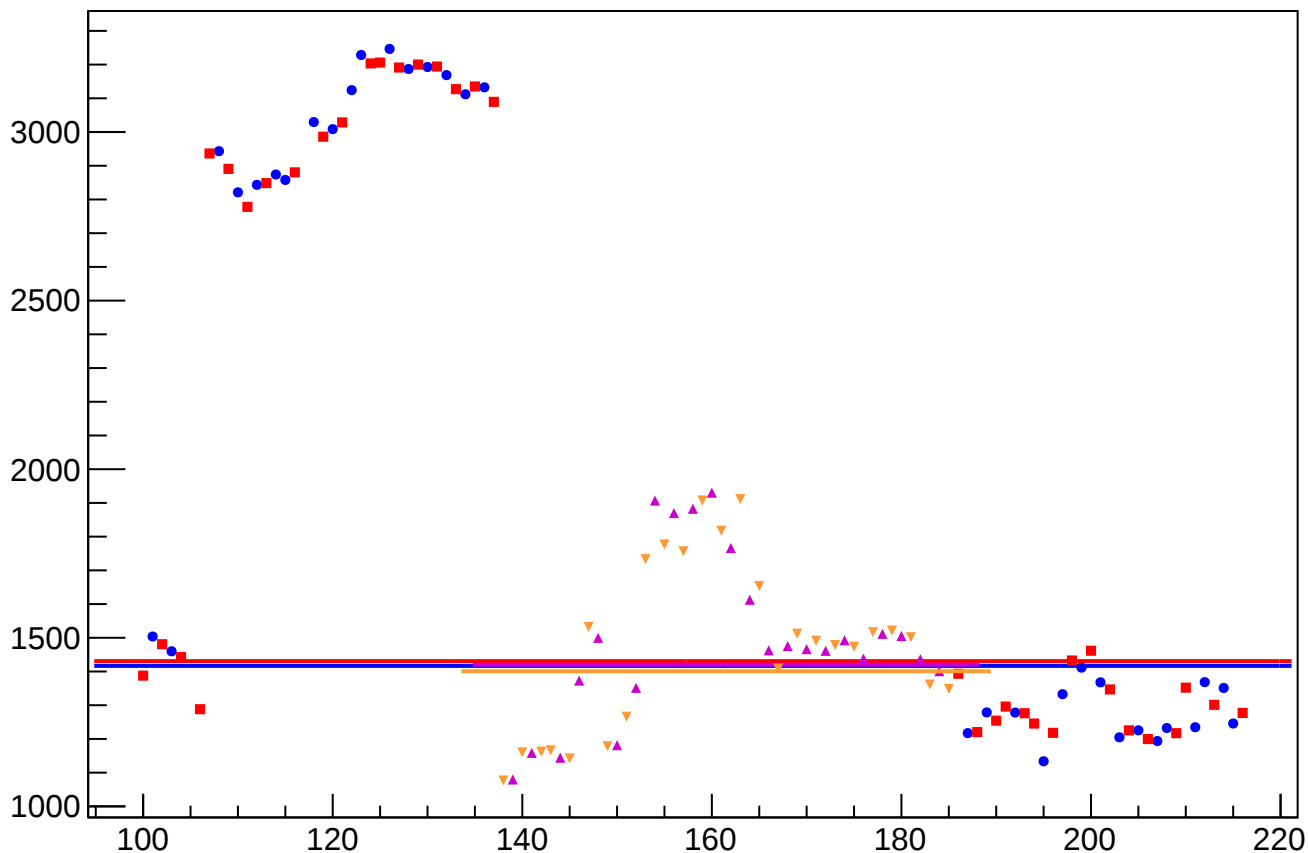
Right: -4.012 $\pm$ 0.253 χ^2/NDF : 4721.9/66

In: -2.431 $\pm$ 0.249 χ^2/NDF : 1872.1/54

Out: -3.338 $\pm$ 0.243 χ^2/NDF : 4029.5/59

All: -2.896 $\pm$ 0.174 χ^2/NDF : 5908.4/114

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1416.689 $\pm$ 0.254 χ^2 /NDF: 3612302.1/31

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF: 1037921.6/24

Right Out: 1430.750 $\pm$ 0.252 χ^2 /NDF: 3573595.0/34

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF: 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

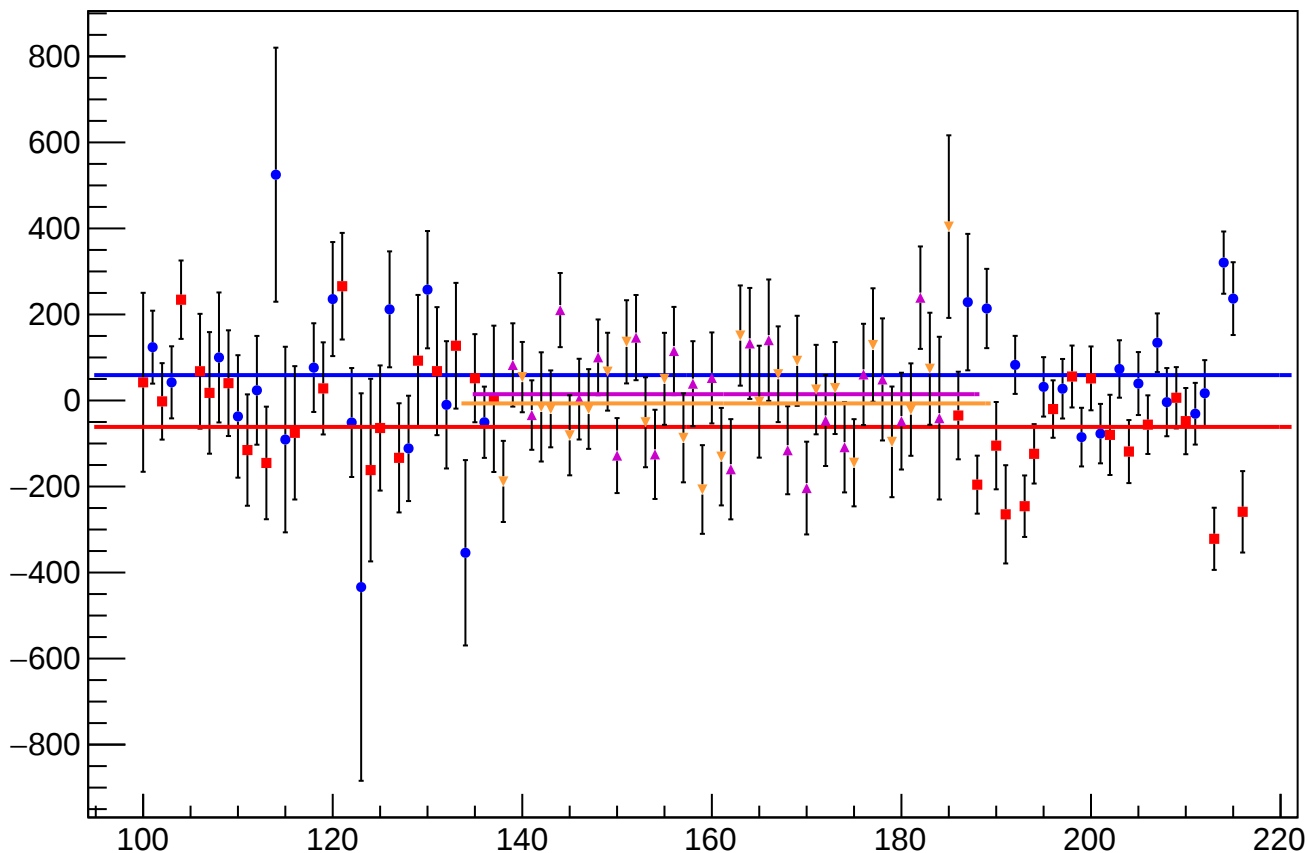
Right: 1423.774 $\pm$ 0.179 χ^2 /NDF: 7187445.8/66

In: 1418.549 $\pm$ 0.176 χ^2 /NDF: 4517592.3/54

Out: 1414.640 $\pm$ 0.172 χ^2 /NDF: 4619176.3/59

All: 1416.543 $\pm$ 0.123 χ^2 /NDF: 9137021.2/111

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 58.999+/-16.275 χ^2/NDF : 53.1/31

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

Right Out: -61.457+/-16.158 χ^2/NDF : 65.9/34

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

Left: 3.596+/-15.219 χ^2/NDF : 55.0/47

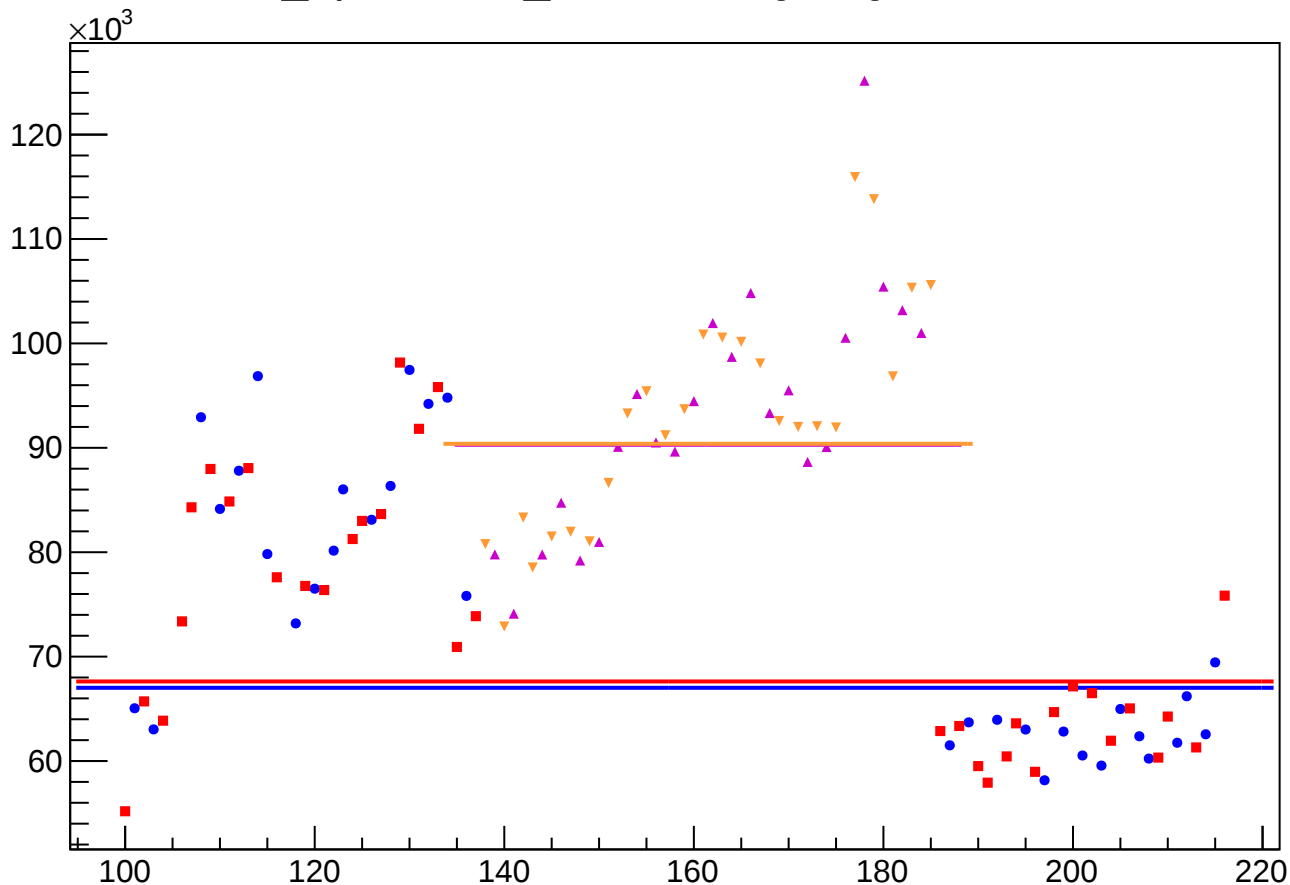
Right: -1.661+/-11.466 χ^2/NDF : 146.5/66

In: 43.157+/-13.051 χ^2/NDF : 85.6/54

Out: -41.385+/-12.854 χ^2/NDF : 94.7/59

All: 0.243+/-9.158 χ^2/NDF : 201.6/114

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67014.706 ± 11.508 $\chi^2/\text{NDF}: 663271.5/31$

Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$

Right Out: 67622.044 ± 11.426 $\chi^2/\text{NDF}: 663215.8/34$

Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761 $\chi^2/\text{NDF}: 923003.7/47$

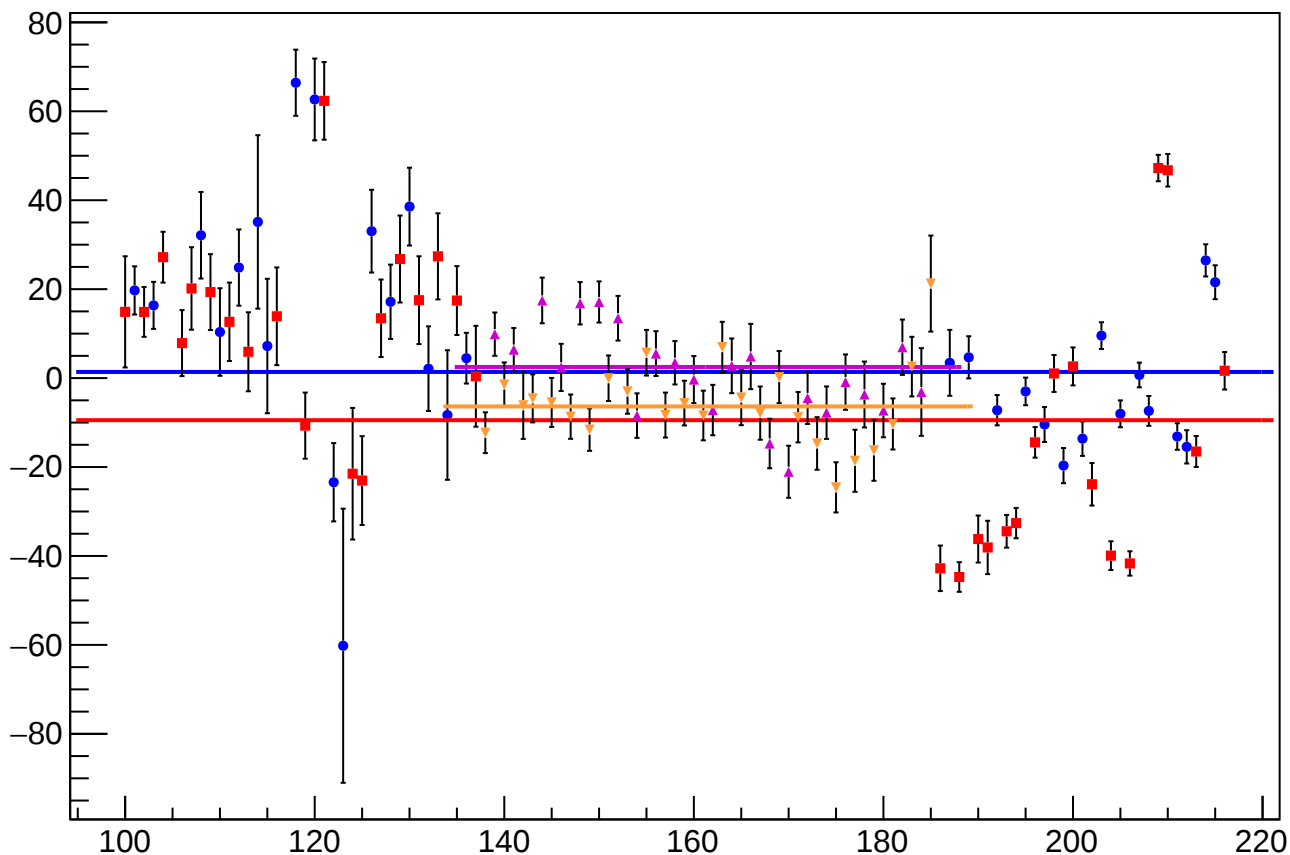
Right: 67320.553 ± 8.108 $\chi^2/\text{NDF}: 1327890.0/66$

In: 75322.962 ± 9.229 $\chi^2/\text{NDF}: 2585048.1/54$

Out: 75979.827 ± 9.089 $\chi^2/\text{NDF}: 2582202.3/59$

All: 75656.394 ± 6.476 $\chi^2/\text{NDF}: 5169822.1/113$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.385 ± 0.828 χ^2/NDF : 413.1/31

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

Right Out: -9.466 ± 0.842 χ^2/NDF : 1390.4/34

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

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

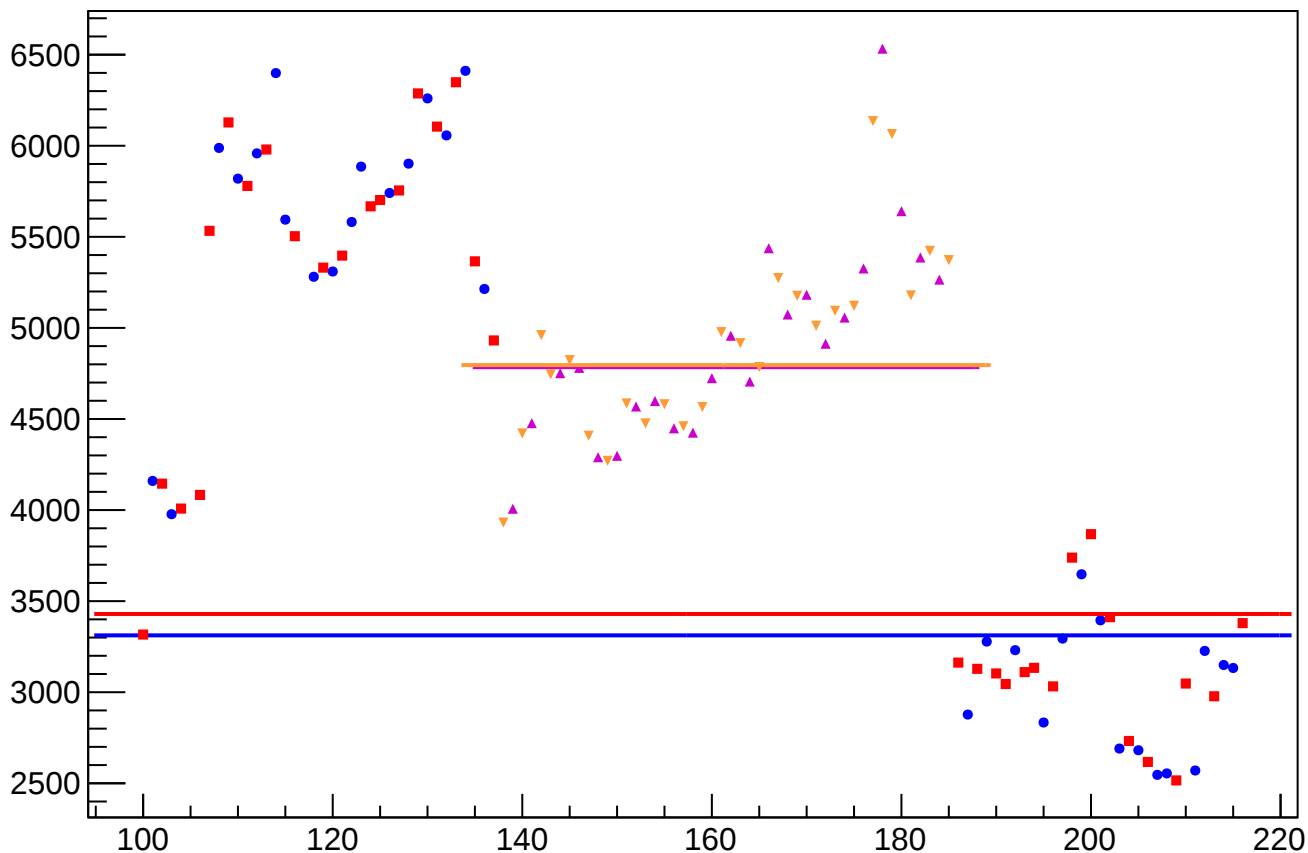
Right: -3.952 ± 0.591 χ^2/NDF : 1887.8/66

In: 1.764 ± 0.673 χ^2/NDF : 492.1/54

Out: -8.353 ± 0.674 χ^2/NDF : 1440.7/59

All: -3.291 ± 0.476 χ^2/NDF : 2045.6/114

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: 3429.520 ± 0.595 $\chi^2/\text{NDF}: 2574831.0/34$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

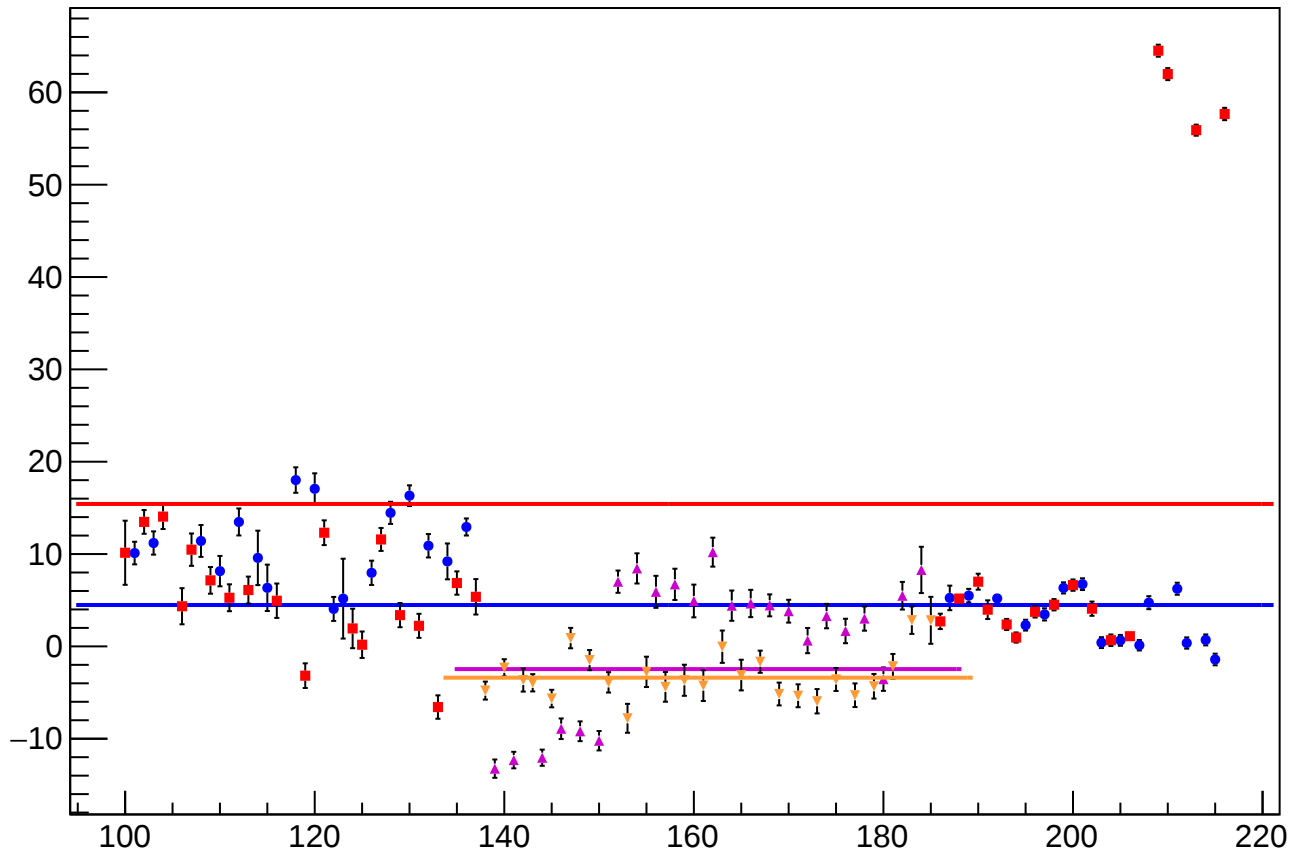
Right: 3369.899 ± 0.418 $\chi^2/\text{NDF}: 5289887.0/66$

In: 3811.812 ± 0.476 $\chi^2/\text{NDF}: 5196223.1/54$

Out: 3920.762 ± 0.477 $\chi^2/\text{NDF}: 4829313.8/59$

All: 3866.246 ± 0.337 $\chi^2/\text{NDF}: 10051695.1/111$

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: 15.426 ± 0.145 $\chi^2/\text{NDF}: 24815.9/34$

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

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

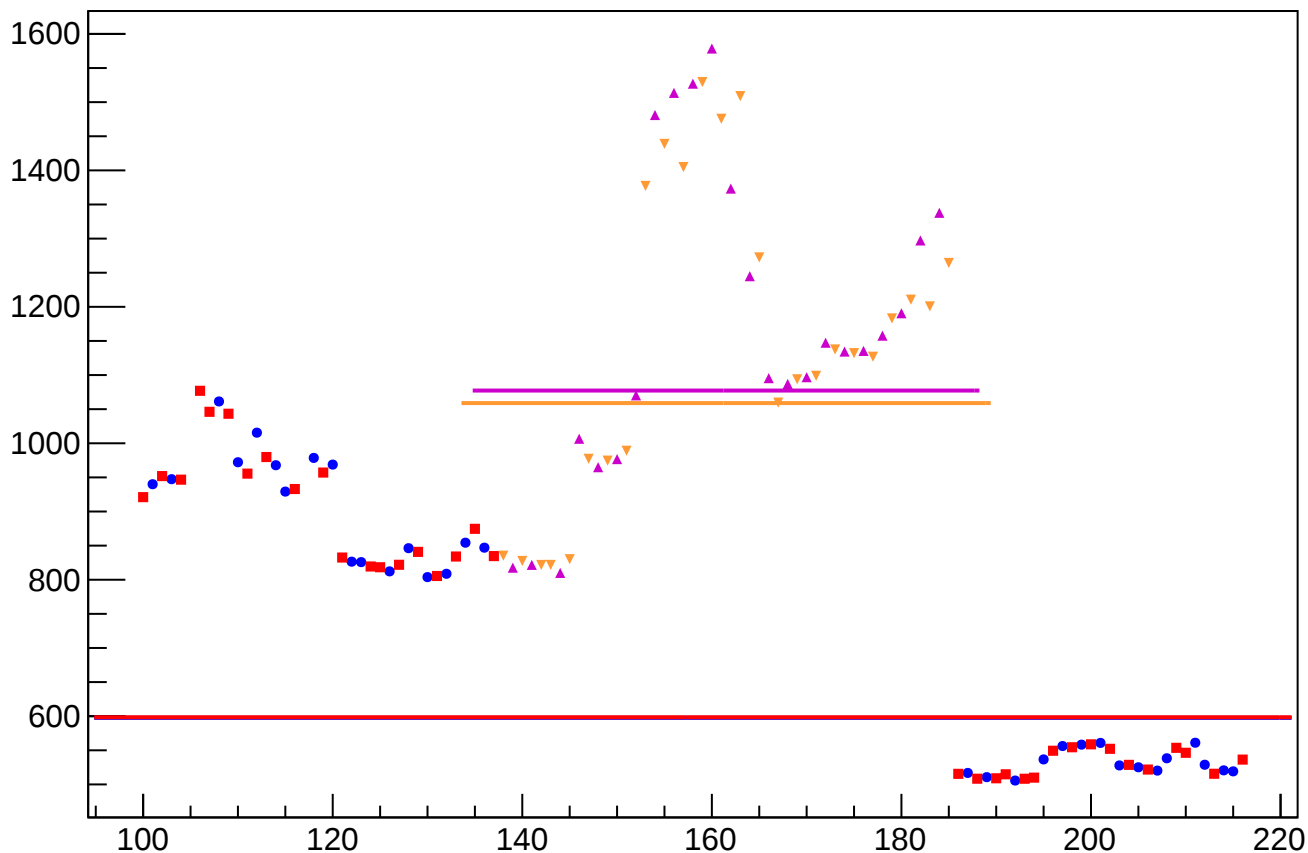
Right: 10.019 ± 0.103 $\chi^2/\text{NDF}: 28555.1/66$

In: 2.837 ± 0.129 $\chi^2/\text{NDF}: 2394.7/54$

Out: 10.732 ± 0.126 $\chi^2/\text{NDF}: 29069.5/59$

All: 6.866 ± 0.090 $\chi^2/\text{NDF}: 33387.3/114$

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: 598.426 $\pm$ 0.103 χ^2 /NDF: 2103881.6/34

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

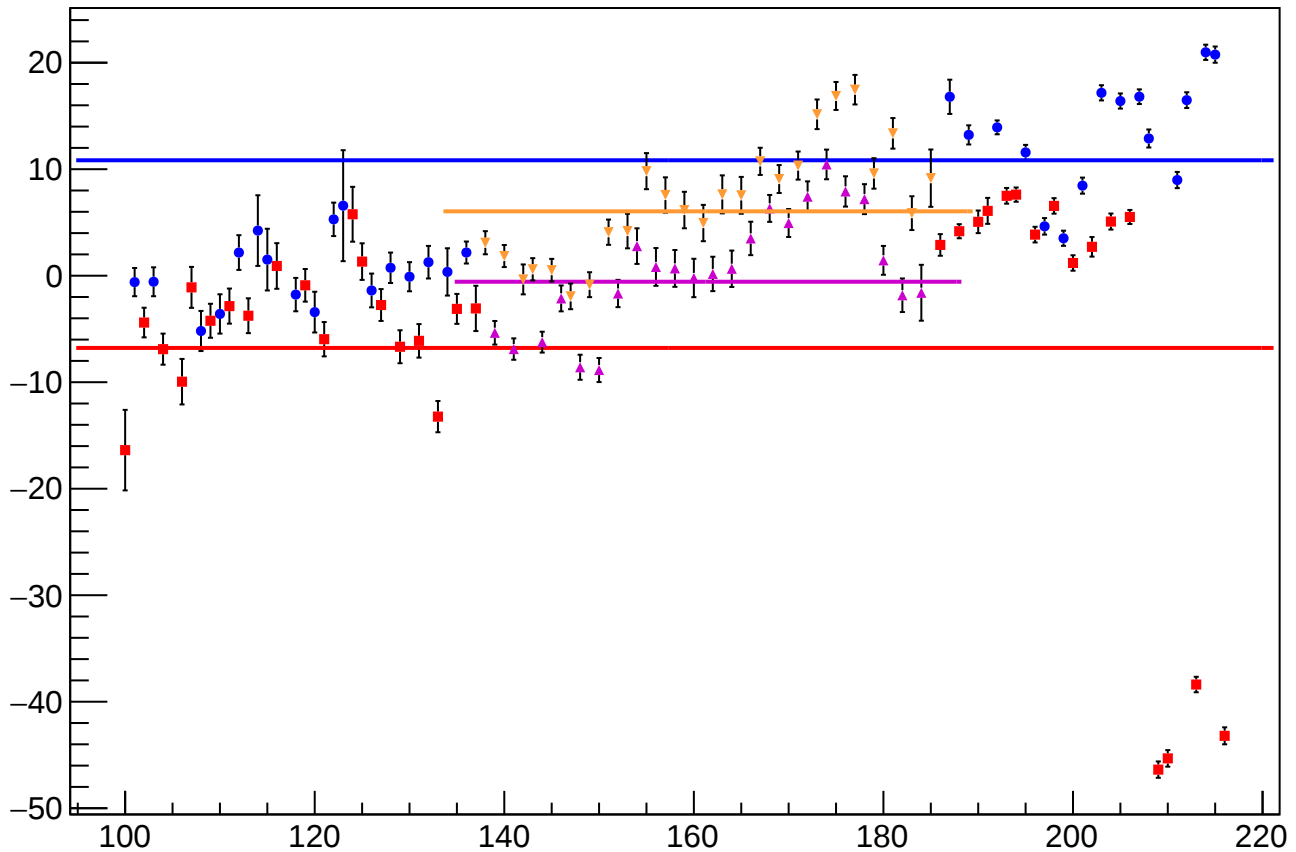
Right: 598.015 $\pm$ 0.073 χ^2 /NDF: 3999924.3/66

In: 711.105 $\pm$ 0.091 χ^2 /NDF: 8202972.5/54

Out: 713.298 $\pm$ 0.089 χ^2 /NDF: 8510047.5/59

All: 712.224 $\pm$ 0.064 χ^2 /NDF: 16713316.6/113

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: -6.781 ± 0.173 $\chi^2/\text{NDF}: 12048.8/34$

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

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

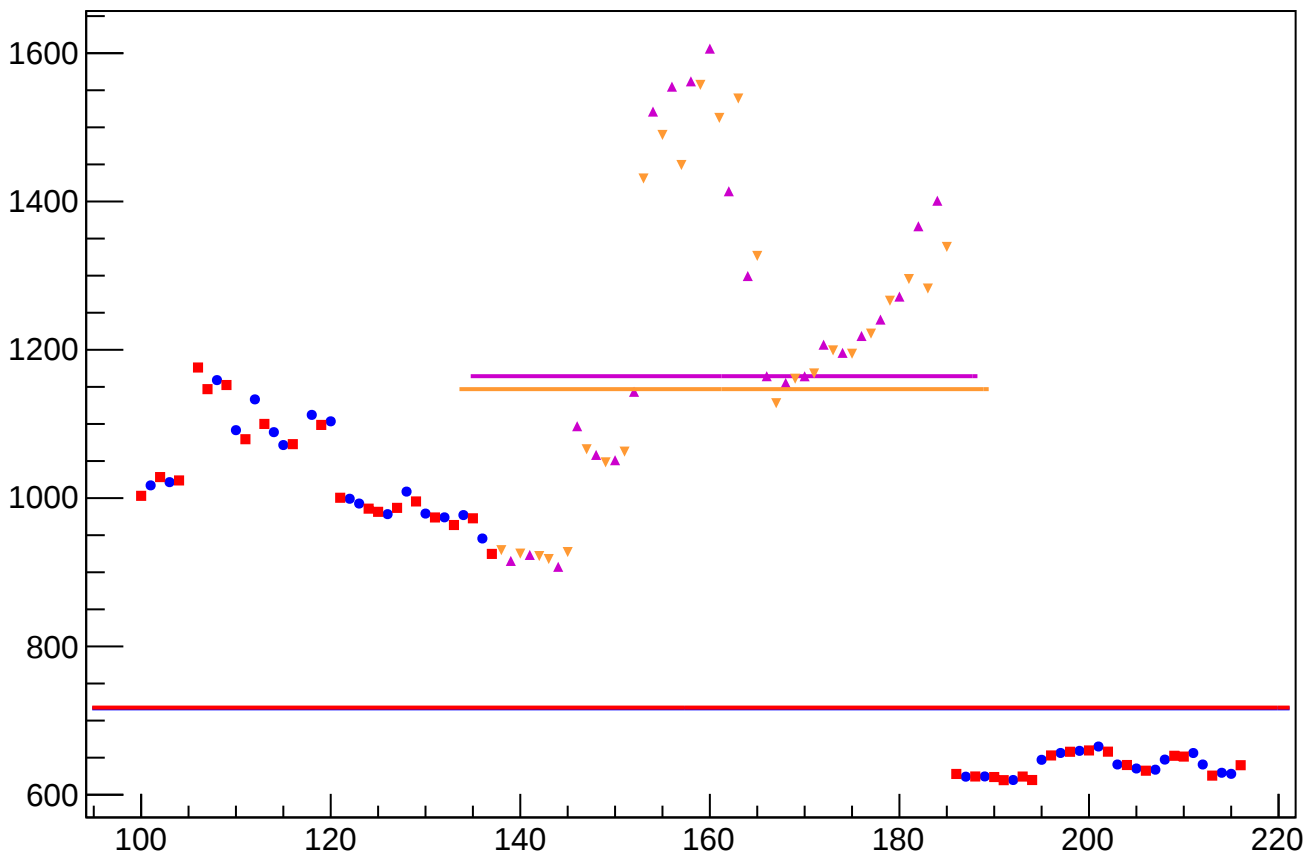
Right: 1.917 ± 0.123 $\chi^2/\text{NDF}: 18782.9/66$

In: 7.685 ± 0.149 $\chi^2/\text{NDF}: 3220.9/54$

Out: -3.068 ± 0.146 $\chi^2/\text{NDF}: 14063.3/59$

All: 2.192 ± 0.104 $\chi^2/\text{NDF}: 19931.0/114$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 716.493 $\pm$ 0.124 χ^2 /NDF: 1562707.9/31

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

Right Out: 717.542 $\pm$ 0.123 χ^2 /NDF: 1721175.1/34

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

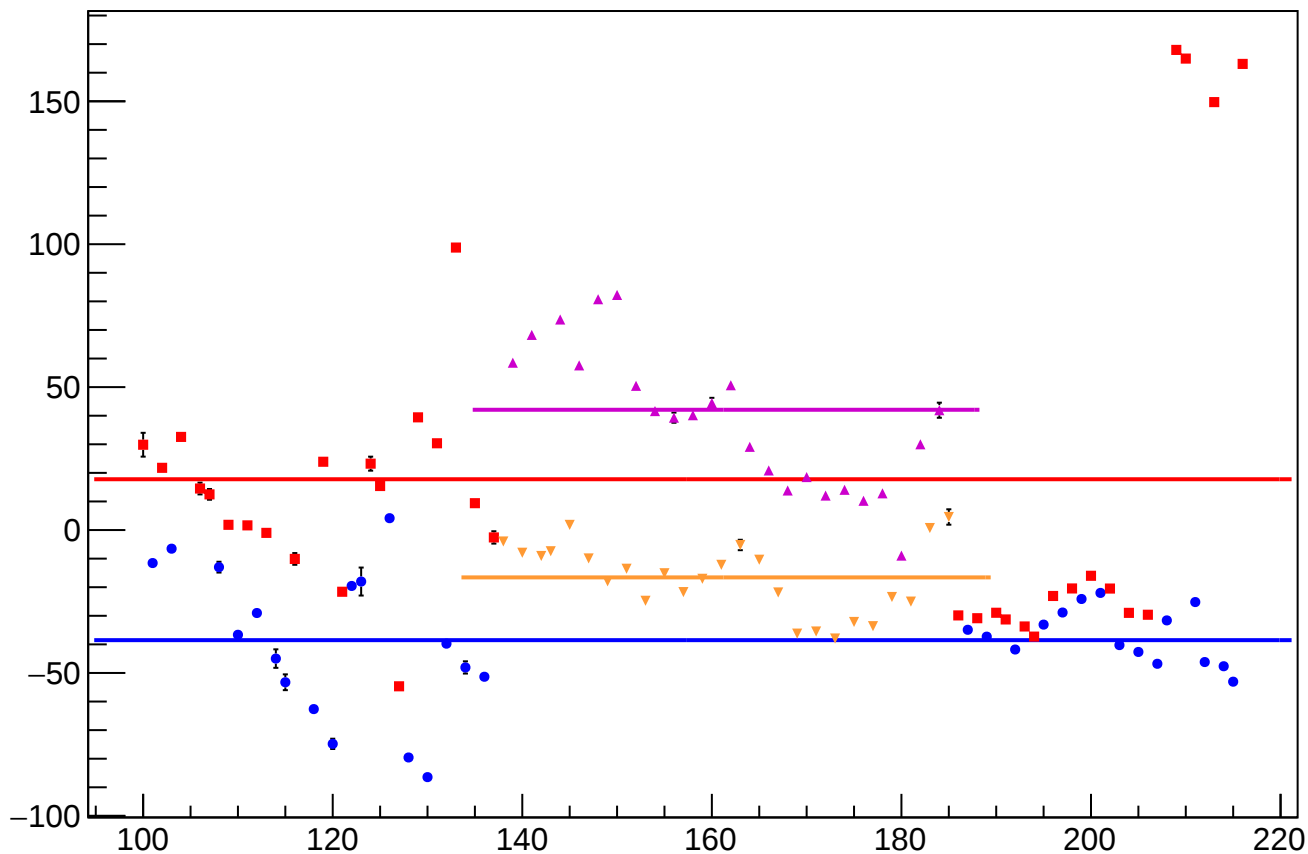
Right: 717.024 $\pm$ 0.087 χ^2 /NDF: 3283919.1/66

In: 840.326 $\pm$ 0.106 χ^2 /NDF:6103699.9/54

Out: 841.867 $\pm$ 0.103 χ^2 /NDF:6317135.1/59

All: 841.113 $\pm$ 0.074 χ^2 /NDF: 12420943.7/11

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -38.523 ± 0.174 $\chi^2/\text{NDF}: 7509.0/31$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 17.772 ± 0.171 $\chi^2/\text{NDF}: 188264.7/34$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

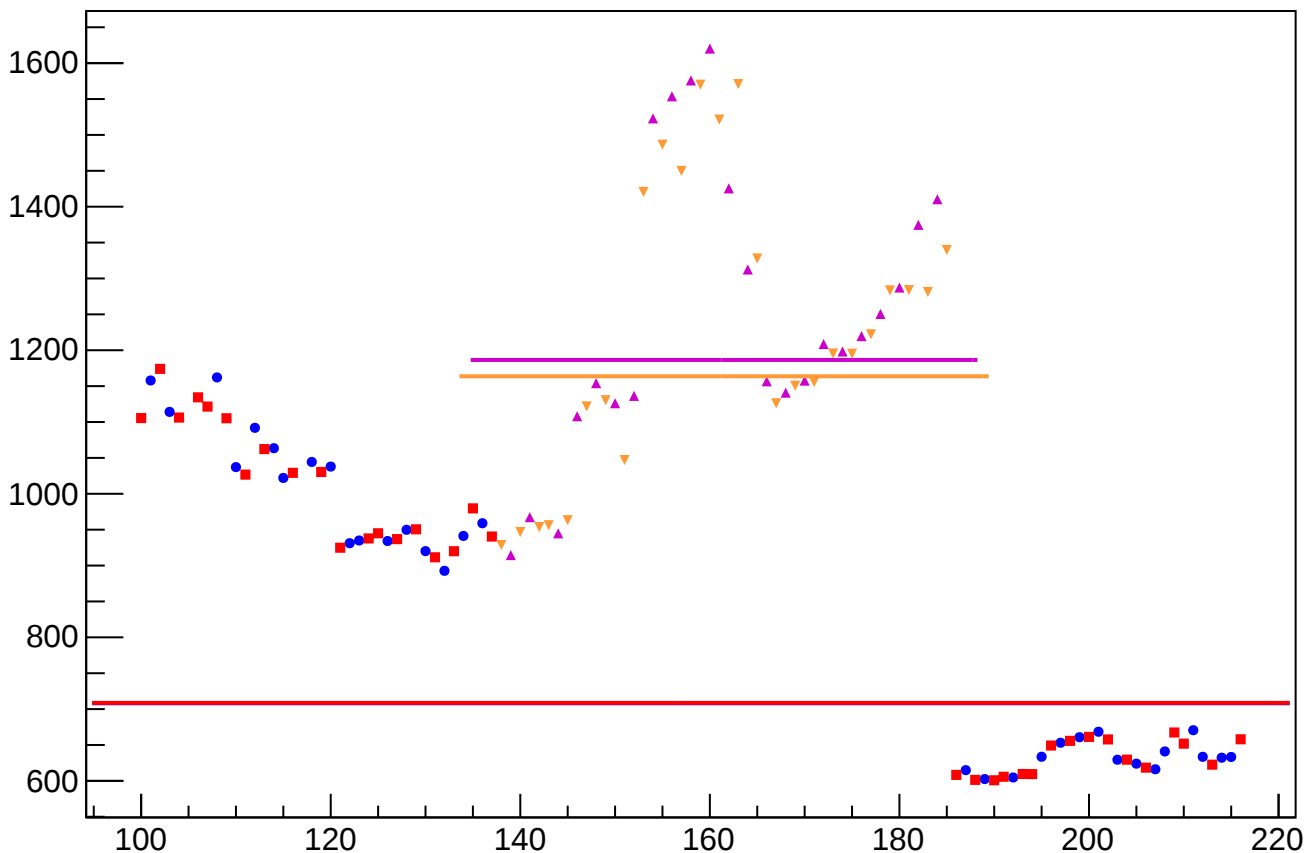
Right: -9.998 ± 0.122 $\chi^2/\text{NDF}: 249117.8/66$

In: -17.179 ± 0.149 $\chi^2/\text{NDF}: 72988.5/54$

Out: 8.195 ± 0.145 $\chi^2/\text{NDF}: 201418.1/59$

All: -4.199 ± 0.104 $\chi^2/\text{NDF}: 289288.0/114$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 708.149+/-0.123 χ^2/NDF : 1551051.0/31

Left Out: 1163.691+/-0.195 χ^2/NDF : 936079.1/24

Right Out: 708.676+/-0.121 χ^2/NDF : 1701783.9/34

Left In: 1186.476+/-0.204 χ^2/NDF : 833420.3/22

Left: 1174.525+/-0.141 χ^2/NDF : 1776015.7/47

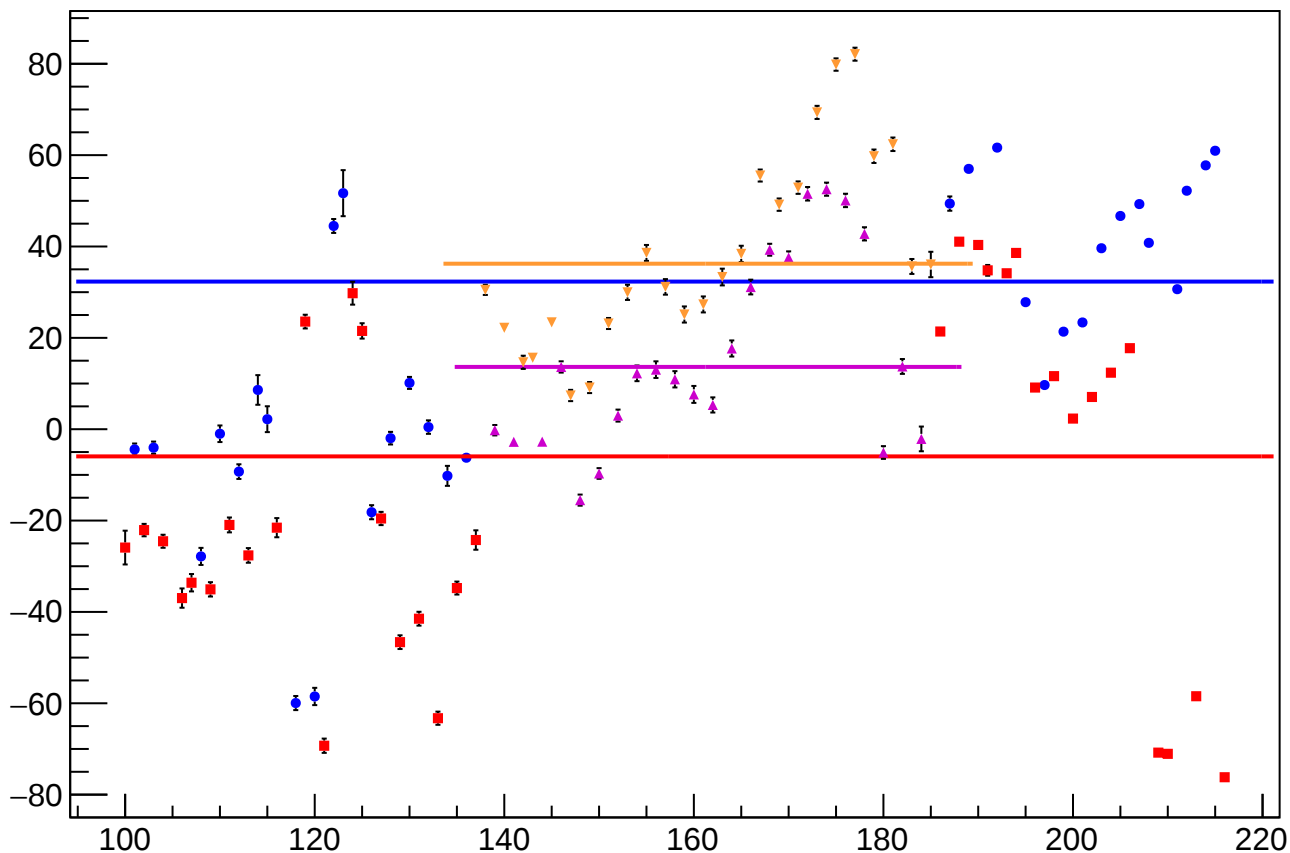
Right: 708.416+/-0.086 χ^2/NDF : 3252844.2/66

In: 834.817+/-0.105 χ^2/NDF : 6409827.5/54

Out: 835.585+/-0.103 χ^2/NDF : 6578646.6/59

All: 835.210+/-0.074 χ^2/NDF : 12988501.3/113

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 32.320 $\pm$ 0.171 χ^2 /NDF: 23189.2/31

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

Right Out: -5.951 $\pm$ 0.169 χ^2 /NDF: 56540.0/34

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

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

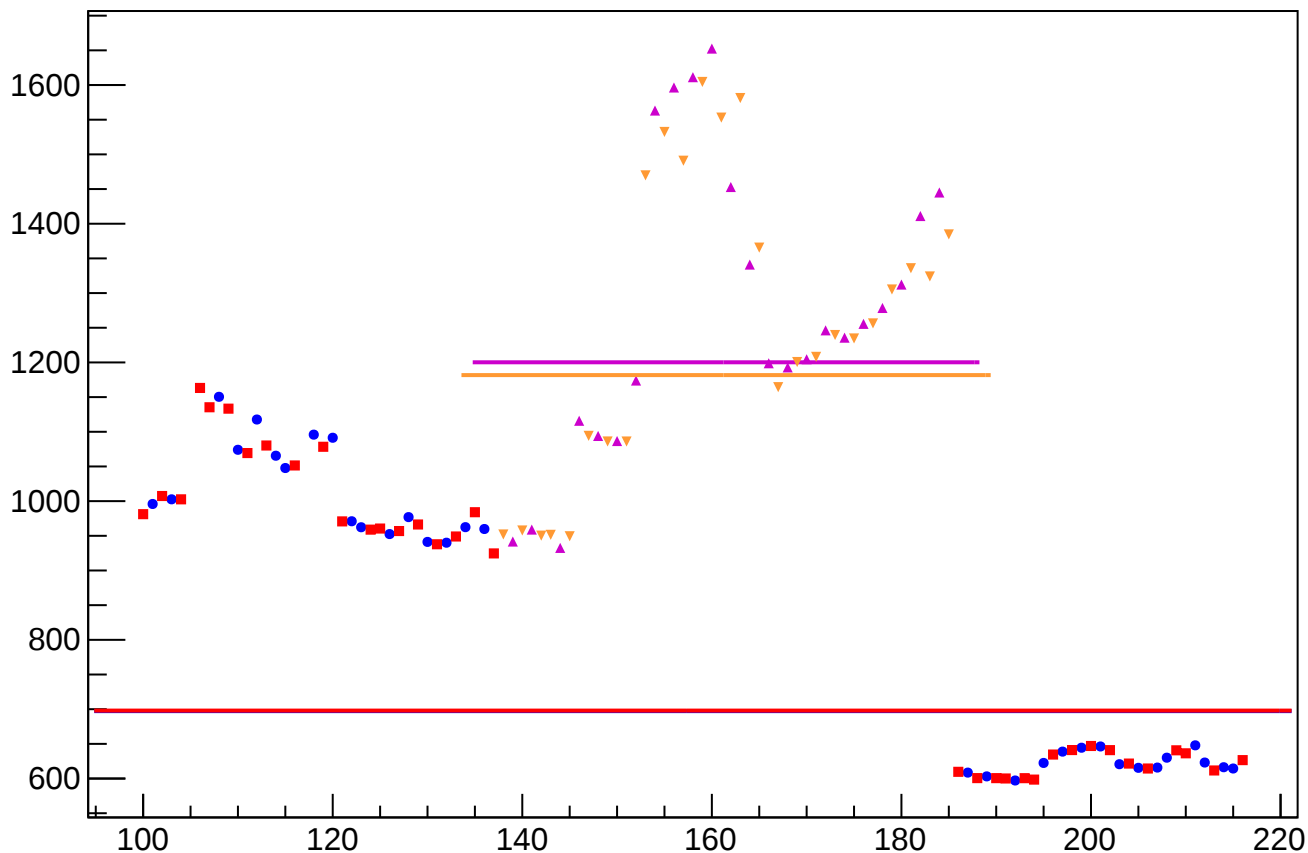
Right: 12.937 $\pm$ 0.120 χ^2 /NDF: 105092.9/66

In: 27.568 $\pm$ 0.148 χ^2 /NDF: 31402.1/54

Out: 5.303 $\pm$ 0.145 χ^2 /NDF: 78992.7/59

All: 16.199 $\pm$ 0.103 χ^2 /NDF: 122003.3/114

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: 697.987+/-0.119 χ^2/NDF : 1791590.5/34

Left In: 1200.198+/-0.207 χ^2/NDF :938224.7/22

Left: 1190.549+/-0.143 χ^2/NDF : 1985902.3/47

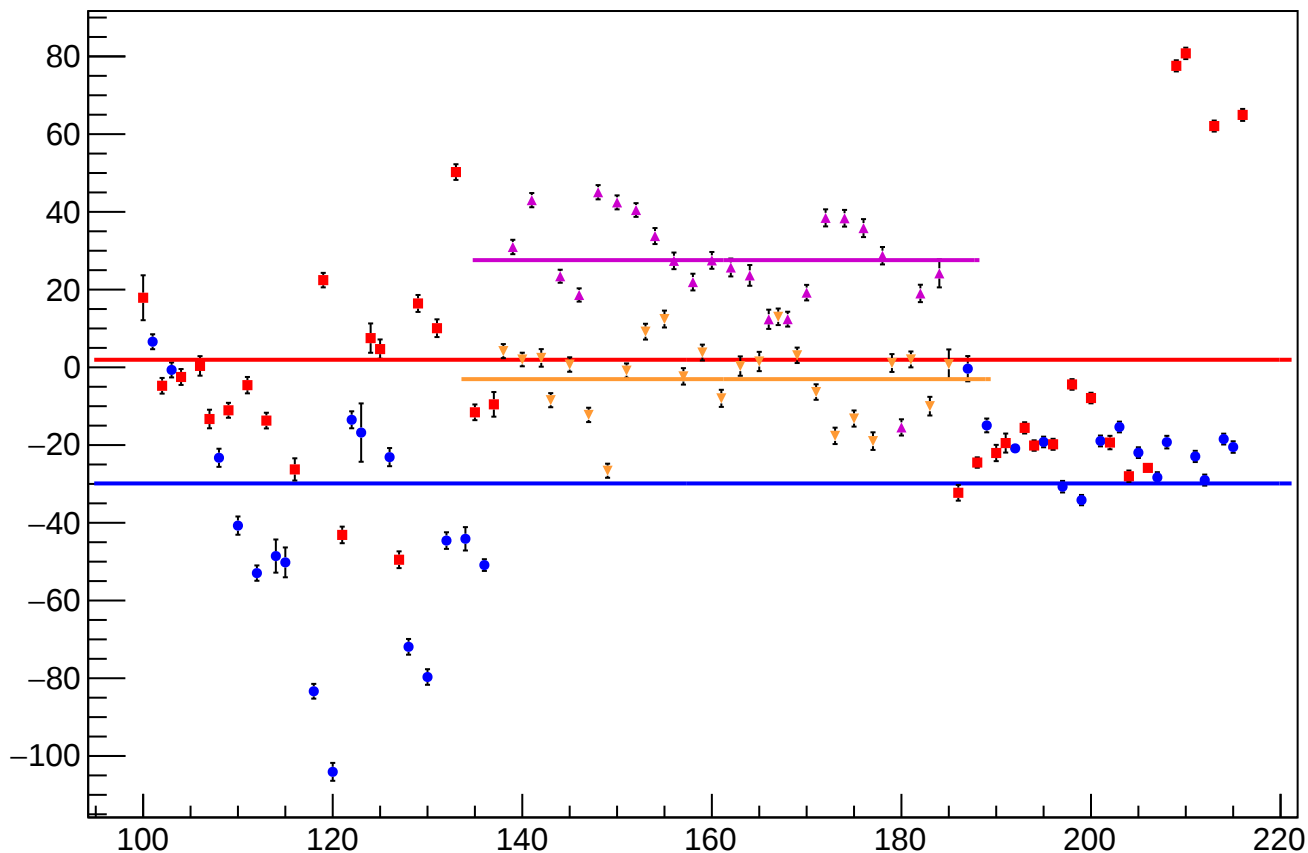
Right: 697.605+/-0.085 χ^2/NDF : 3418834.6/66

In: 825.157+/-0.104 χ^2/NDF :6966348.6/54

Out: 827.043+/-0.102 χ^2/NDF :7216085.8/59

All: 826.120+/-0.073 χ^2/NDF : 14182600.9/119

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: 1.947±/0.305 χ^2/NDF : 13862.8/34

Left In: 27.583±/0.429 χ^2/NDF :960.1/22

Left: 11.767±/0.298 χ^2/NDF : 4146.6/47

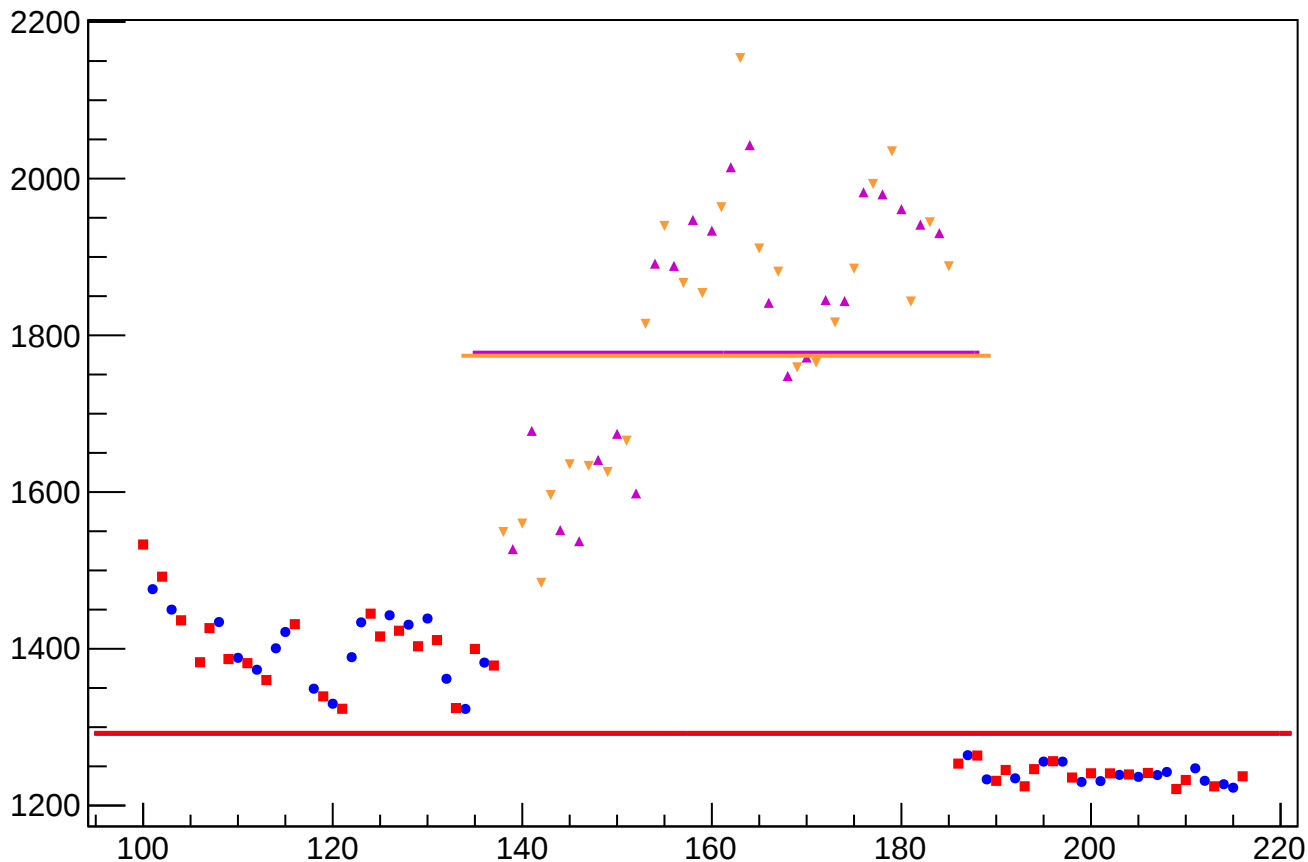
Right: -13.735±/0.218 χ^2/NDF : 23874.5/66

In: -10.177±/0.251 χ^2/NDF :17410.2/54

Out: 0.196±/0.246 χ^2/NDF :14511.9/59

All: -4.882±/0.176 χ^2/NDF : 32792.4/114

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1291.621 $\pm$ 0.219 χ^2/NDF : 136689.5/31

Left Out: 1773.965 $\pm$ 0.294 χ^2/NDF : 313031.1/24

Right Out: 1292.783 $\pm$ 0.216 χ^2/NDF : 133890.5/34

Left In: 1777.884 $\pm$ 0.303 χ^2/NDF : 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2/NDF : 612631.3/47

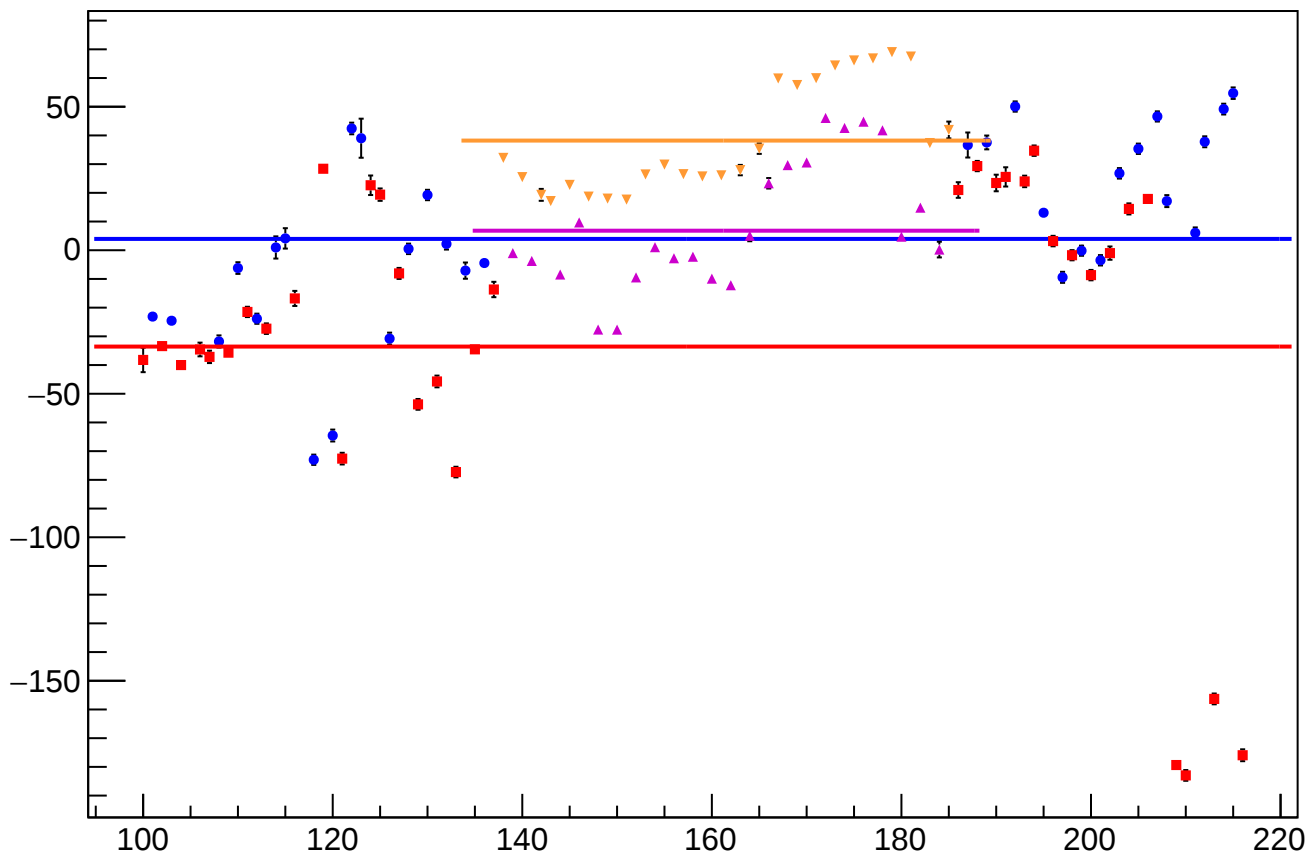
Right: 1292.210 $\pm$ 0.154 χ^2/NDF : 270594.2/66

In: 1458.328 $\pm$ 0.178 χ^2/NDF : 2124636.9/54

Out: 1461.812 $\pm$ 0.174 χ^2/NDF : 2190474.6/59

All: 1460.106 $\pm$ 0.124 χ^2/NDF : 4315307.9/11

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: -33.563 ± 0.336 χ^2/NDF : 33239.3/34

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

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

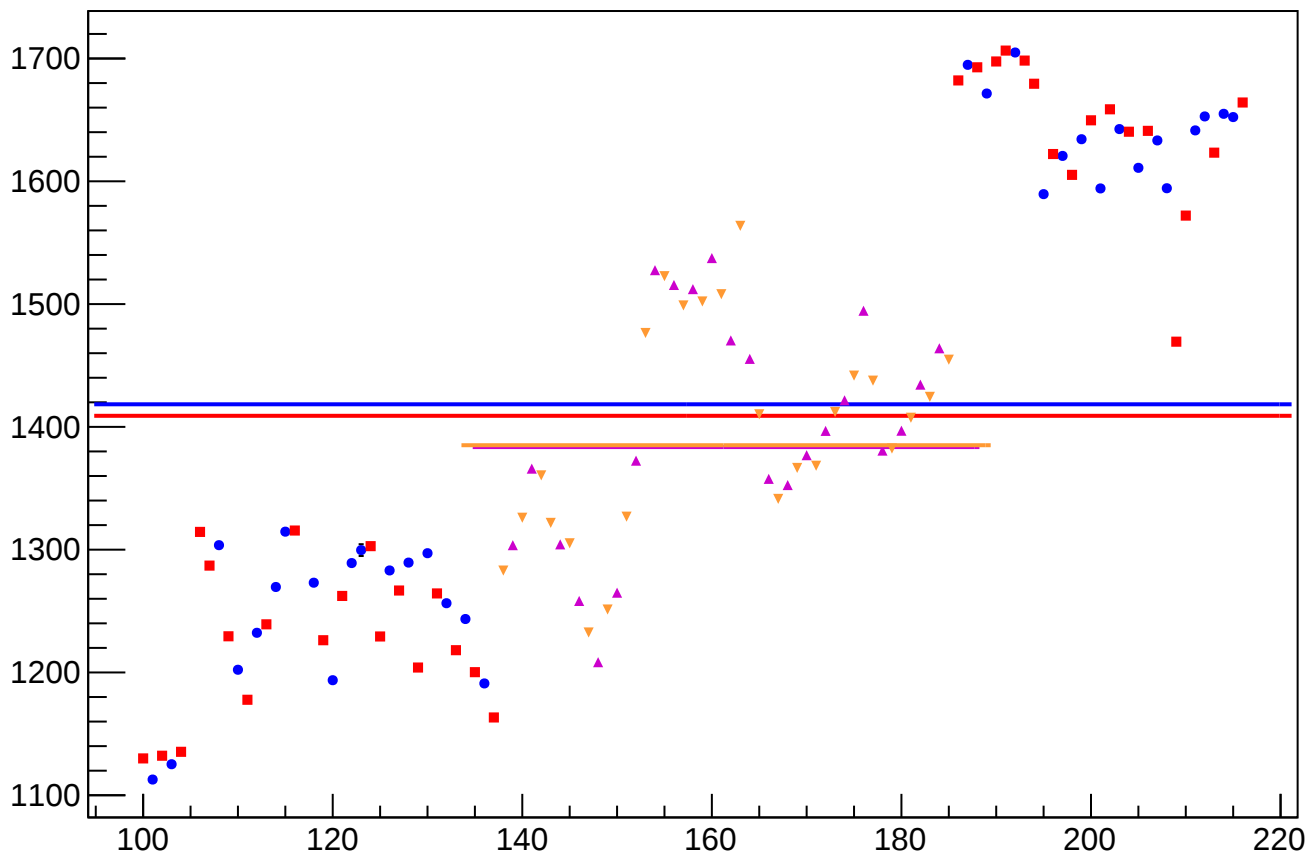
Right: -15.214 ± 0.240 χ^2/NDF : 47957.4/66

In: 5.422 ± 0.239 χ^2/NDF : 13157.4/54

Out: 3.711 ± 0.233 χ^2/NDF : 60428.5/59

All: 4.545 ± 0.167 χ^2/NDF : 73612.1/114

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1418.394 $\pm$ 0.243 χ^2/NDF : 760778.8/31

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF : 146001.5/24

Right Out: 1409.019 $\pm$ 0.238 χ^2/NDF : 818242.8/34

Left In: 1383.558 $\pm$ 0.235 χ^2/NDF : 154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2/NDF : 300718.5/47

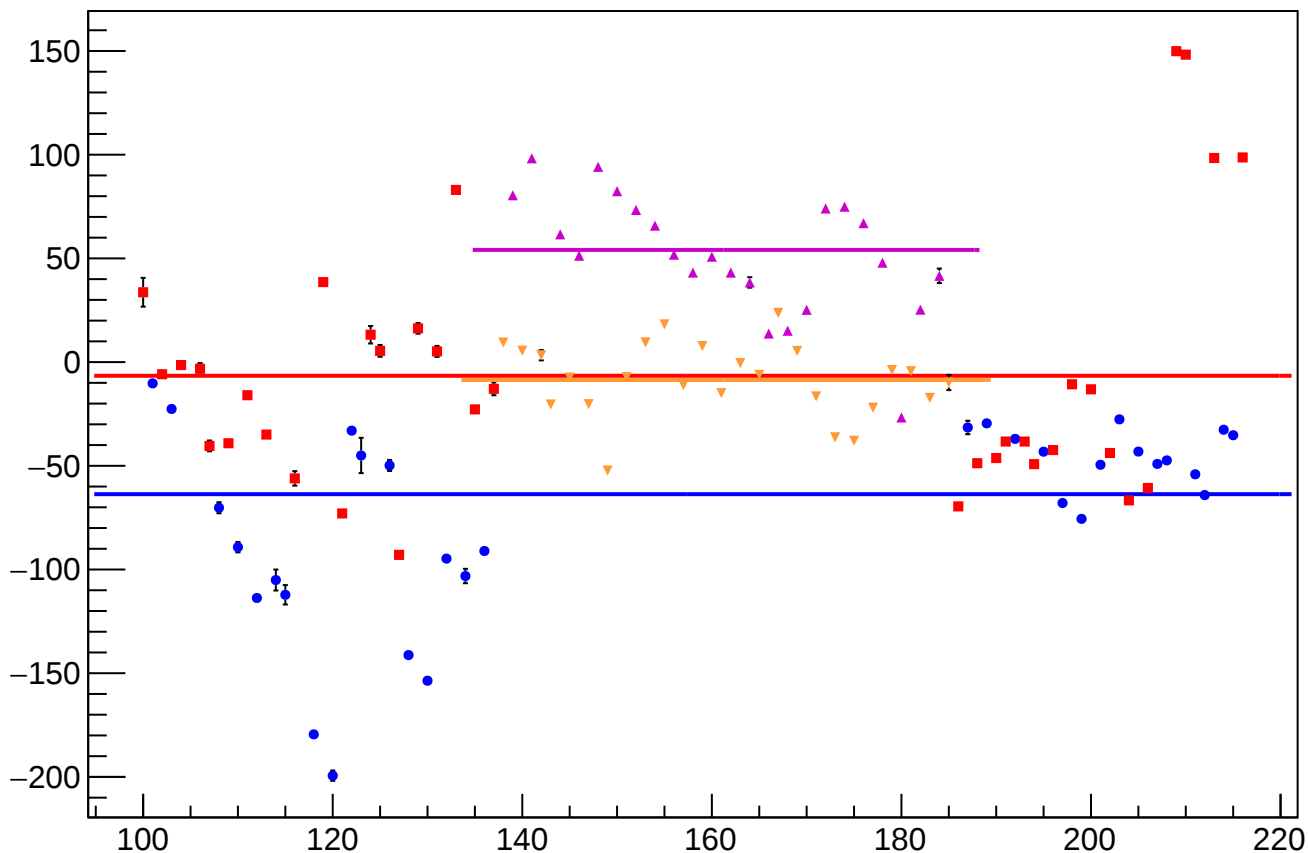
Right: 1413.605 $\pm$ 0.170 χ^2/NDF : 1579782.6/66

In: 1400.434 $\pm$ 0.169 χ^2/NDF : 926079.6/54

Out: 1396.577 $\pm$ 0.165 χ^2/NDF : 969519.7/59

All: 1398.456 $\pm$ 0.118 χ^2/NDF : 1895866.1/111

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -63.674 $\pm$ 0.349 χ^2/NDF : 13792.8/31

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

Right Out: -6.592 $\pm$ 0.340 χ^2/NDF : 36310.8/34

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

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

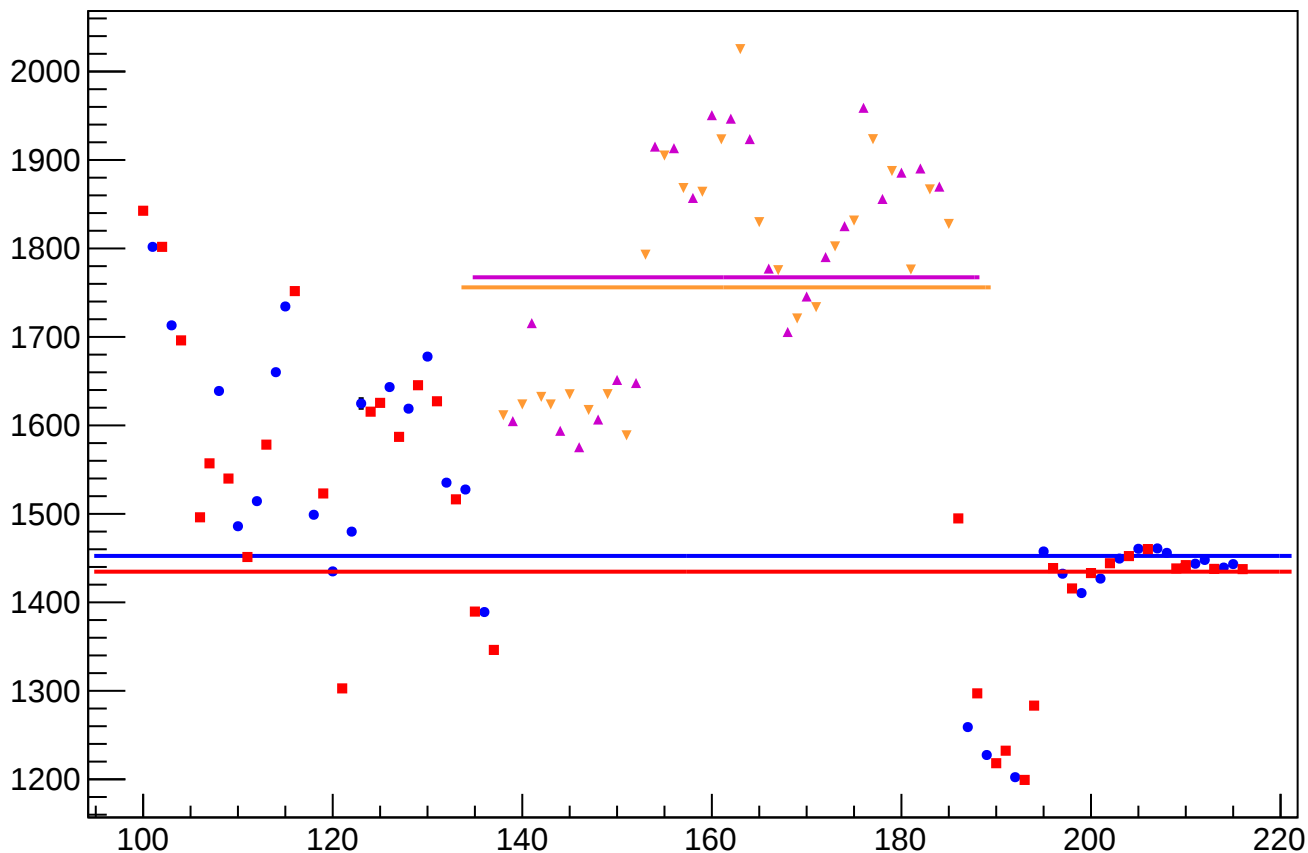
Right: -34.357 $\pm$ 0.244 χ^2/NDF : 63831.5/66

In: -16.306 $\pm$ 0.270 χ^2/NDF : 64272.7/54

Out: -7.411 $\pm$ 0.262 χ^2/NDF : 38255.6/59

All: -11.721 $\pm$ 0.188 χ^2/NDF : 103088.1/114

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: 1434.669 $\pm$ 0.240 χ^2/NDF : 308806.5/34

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

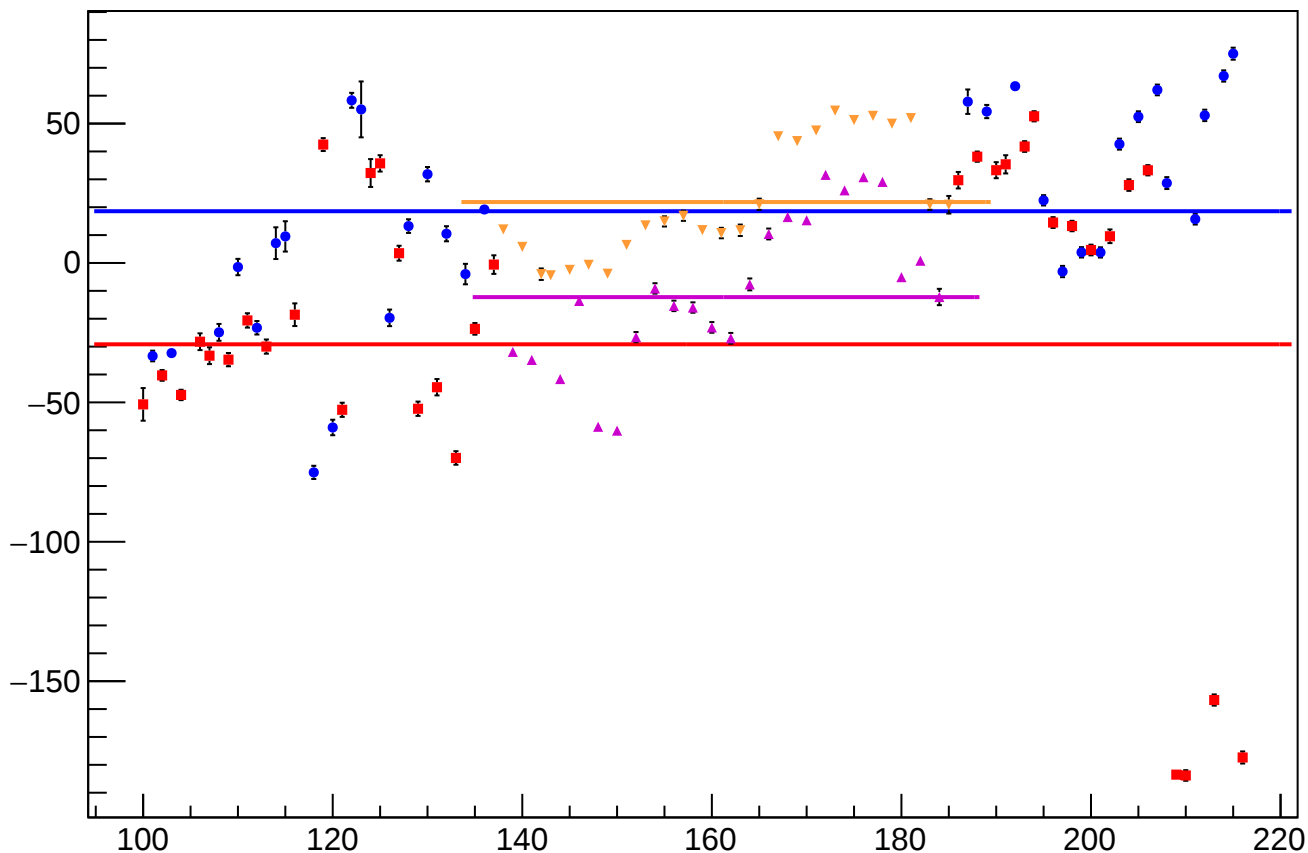
Right: 1443.334 $\pm$ 0.172 χ^2/NDF : 573355.8/66

In: 1579.156 $\pm$ 0.191 χ^2/NDF : 1104323.8/54

Out: 1565.431 $\pm$ 0.185 χ^2/NDF : 1212557.4/59

All: 1572.080 $\pm$ 0.133 χ^2/NDF : 2319546.8/11

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: -29.171+/-0.390 χ^2/NDF : 35996.3/34

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

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

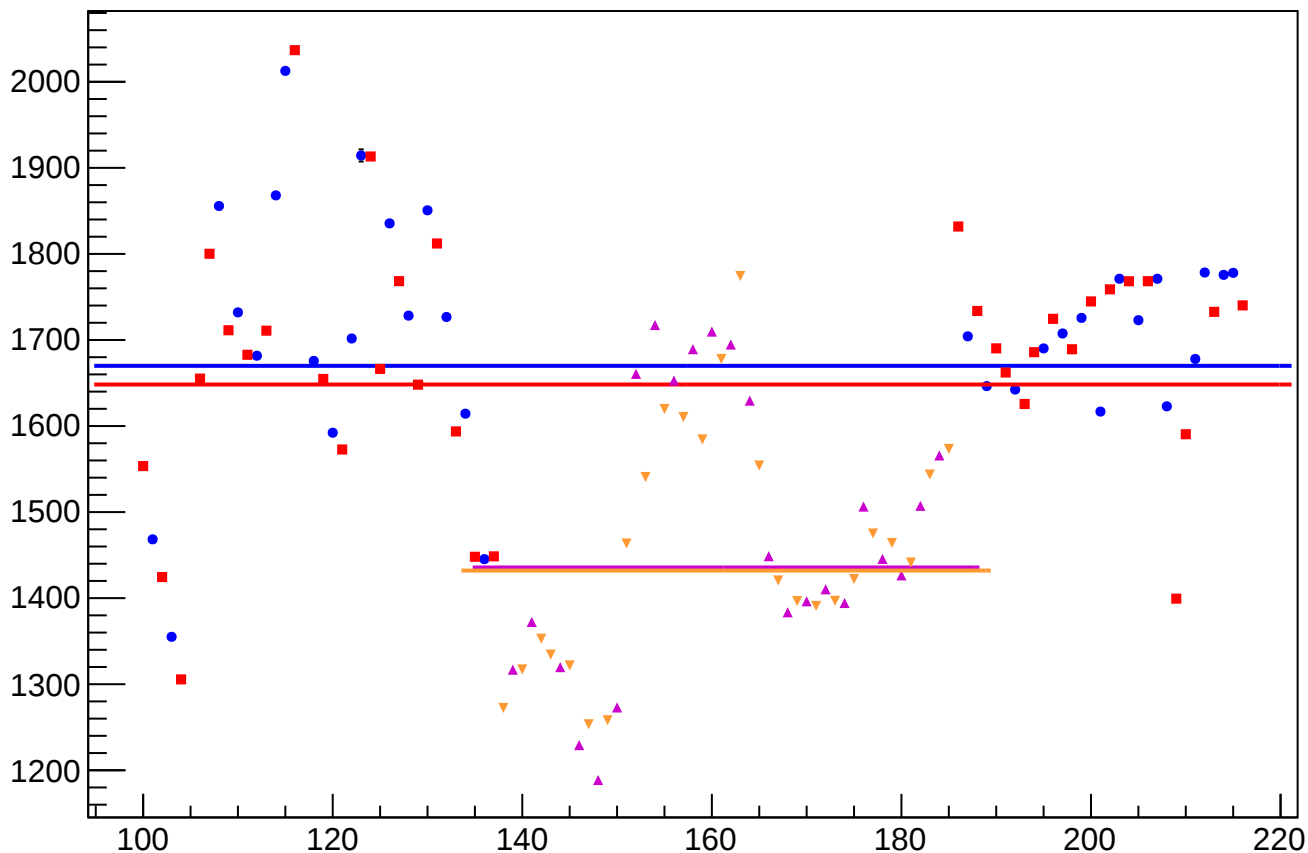
Right: -5.973+/-0.280 χ^2/NDF : 51936.5/66

In: 0.927+/-0.263 χ^2/NDF : 18828.4/54

Out: 0.197+/-0.254 χ^2/NDF : 49935.7/59

All: 0.551+/-0.183 χ^2/NDF : 68768.0/114

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: 1648.260 $\pm$ 0.276 χ^2/NDF : 262431.7/34

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

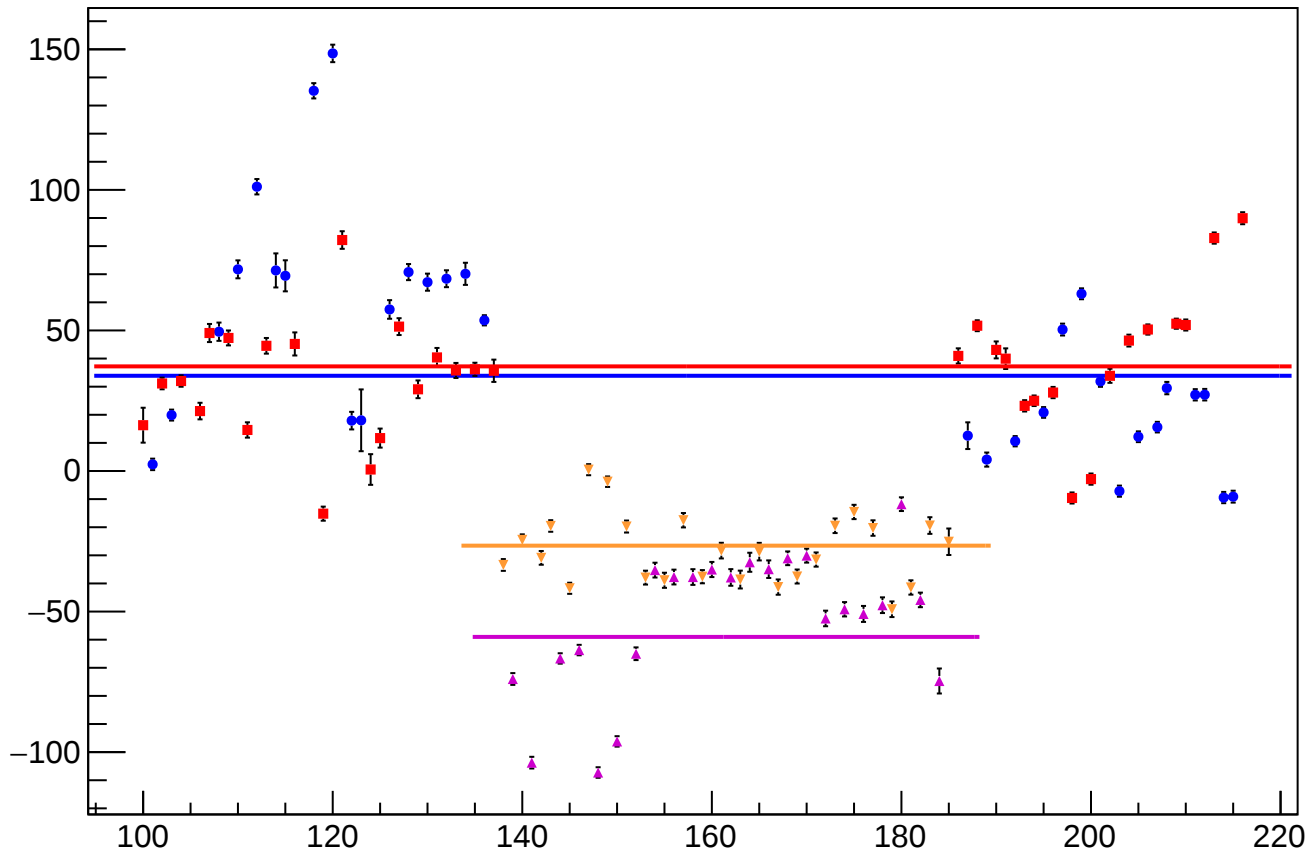
Right: 1658.794 $\pm$ 0.198 χ^2/NDF : 464210.5/66

In: 1535.819 $\pm$ 0.186 χ^2/NDF : 1009331.9/54

Out: 1523.827 $\pm$ 0.180 χ^2/NDF : 912697.0/59

All: 1529.633 $\pm$ 0.129 χ^2/NDF : 1924180.7/11

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: 37.217 ± 0.414 χ^2/NDF : 3414.1/34

Left In: -59.014 ± 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 ± 0.351 χ^2/NDF : 5632.2/47

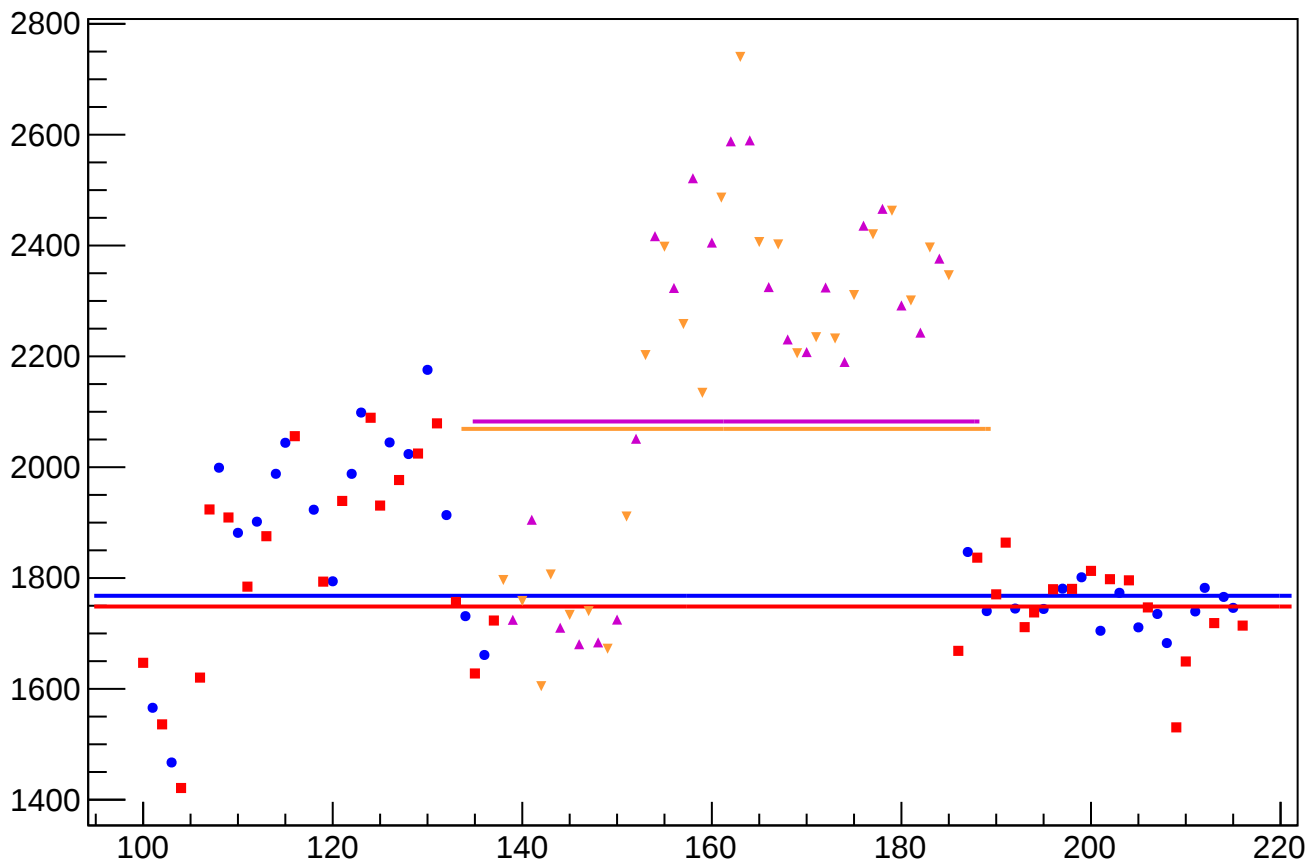
Right: 35.590 ± 0.296 χ^2/NDF : 10243.7/66

In: -4.506 ± 0.326 χ^2/NDF : 29323.9/54

Out: 10.529 ± 0.316 χ^2/NDF : 14067.3/59

All: 3.244 ± 0.227 χ^2/NDF : 44490.8/114

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: 1748.613 ± 0.293 $\chi^2/\text{NDF}: 228635.3/34$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

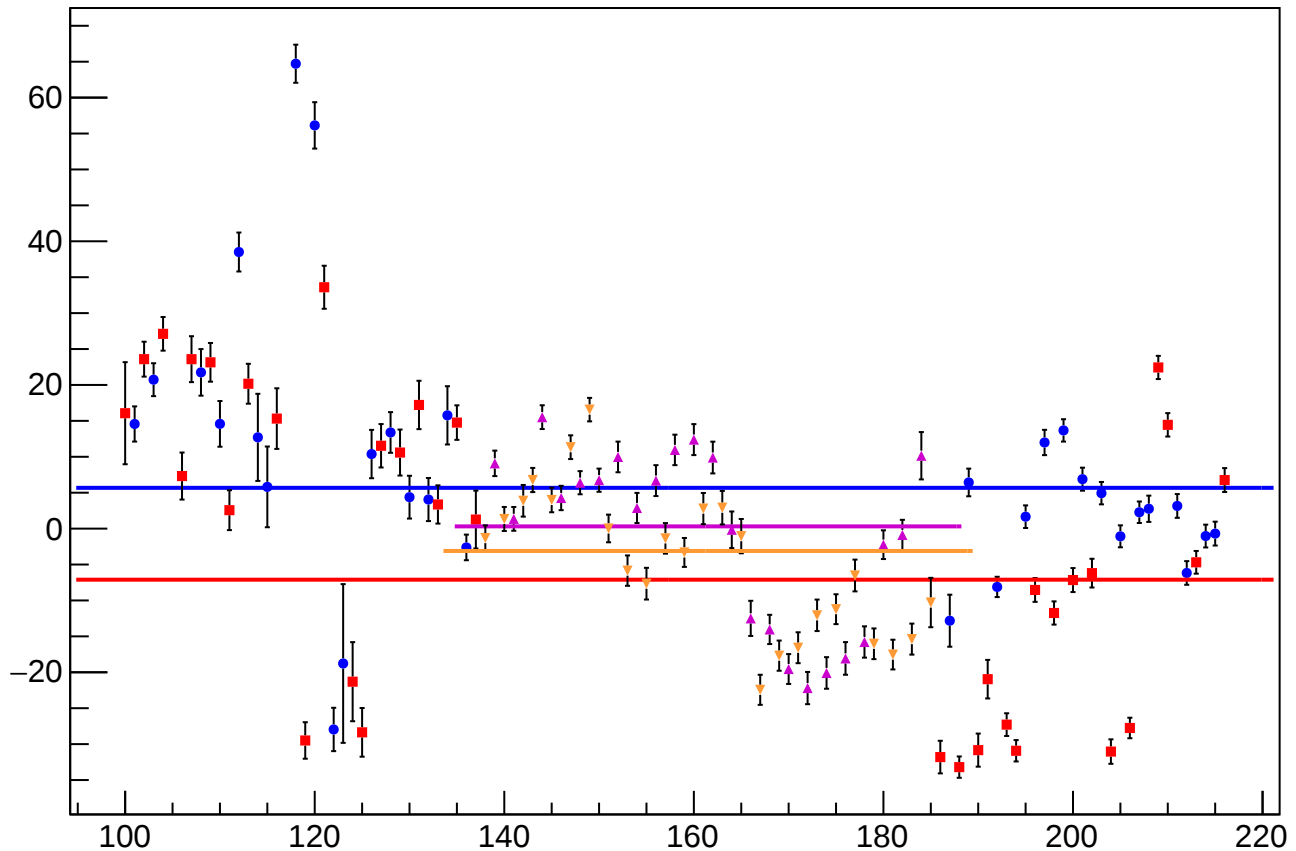
Right: 1758.034 ± 0.210 $\chi^2/\text{NDF}: 429318.7/66$

In: 1897.925 ± 0.230 $\chi^2/\text{NDF}: 1436584.7/54$

Out: 1882.757 ± 0.223 $\chi^2/\text{NDF}: 1529702.6/59$

All: 1890.107 ± 0.160 $\chi^2/\text{NDF}: 2968525.6/11$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 5.678 ± 0.368 χ^2/NDF : 1425.2/31

Left Out: -3.112 ± 0.404 χ^2/NDF : 643.7/24

Right Out: -7.109 ± 0.362 χ^2/NDF : 3266.4/34

Left In: 0.312 ± 0.421 χ^2/NDF : 736.5/22

Left: -1.470 ± 0.292 χ^2/NDF : 1414.7/47

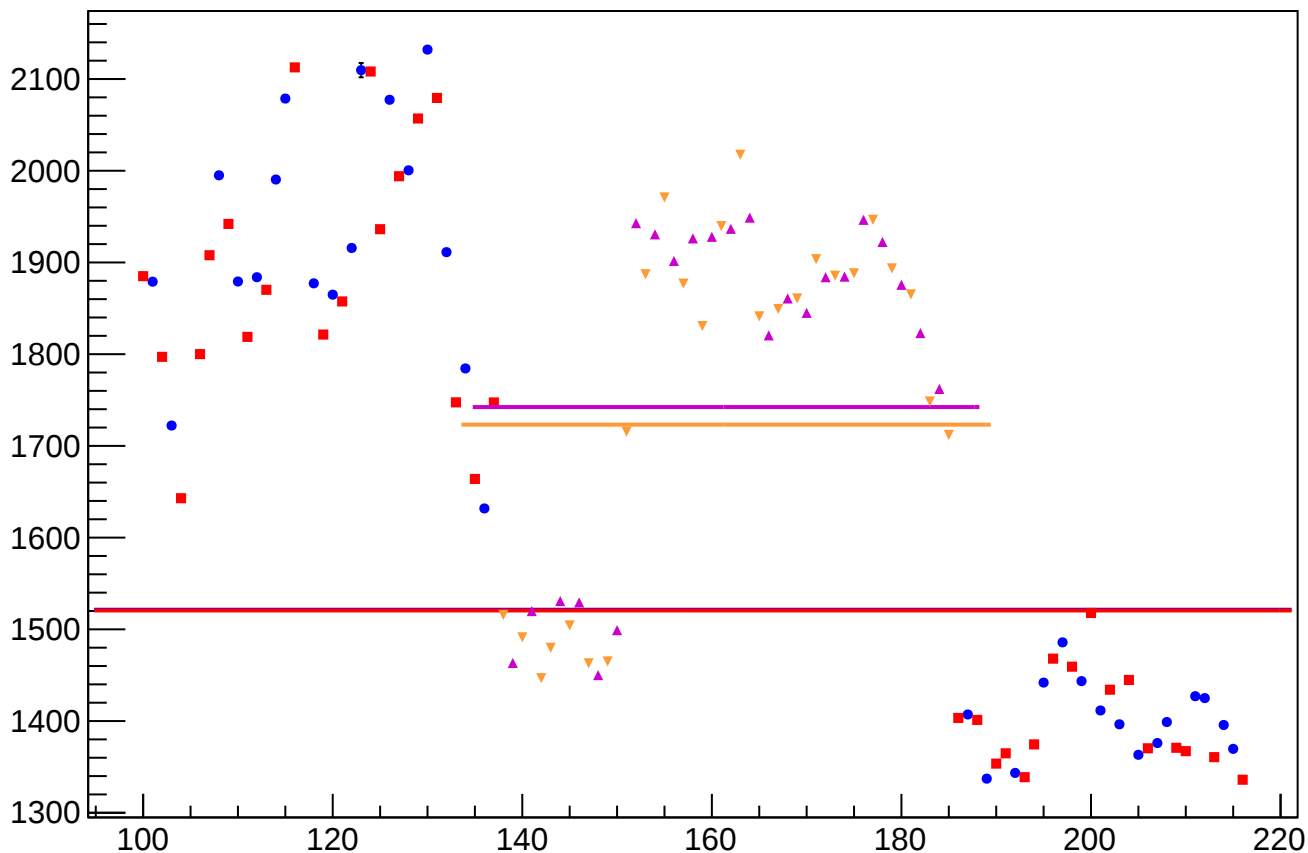
Right: -0.820 ± 0.258 χ^2/NDF : 5304.1/66

In: 3.352 ± 0.277 χ^2/NDF : 2253.7/54

Out: -5.328 ± 0.270 χ^2/NDF : 3964.4/59

All: -1.106 ± 0.193 χ^2/NDF : 6721.5/114

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1521.350 ± 0.260 $\chi^2/\text{NDF}: 714726.1/31$

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

Right Out: 1520.580 ± 0.256 $\chi^2/\text{NDF}: 714096.0/34$

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

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

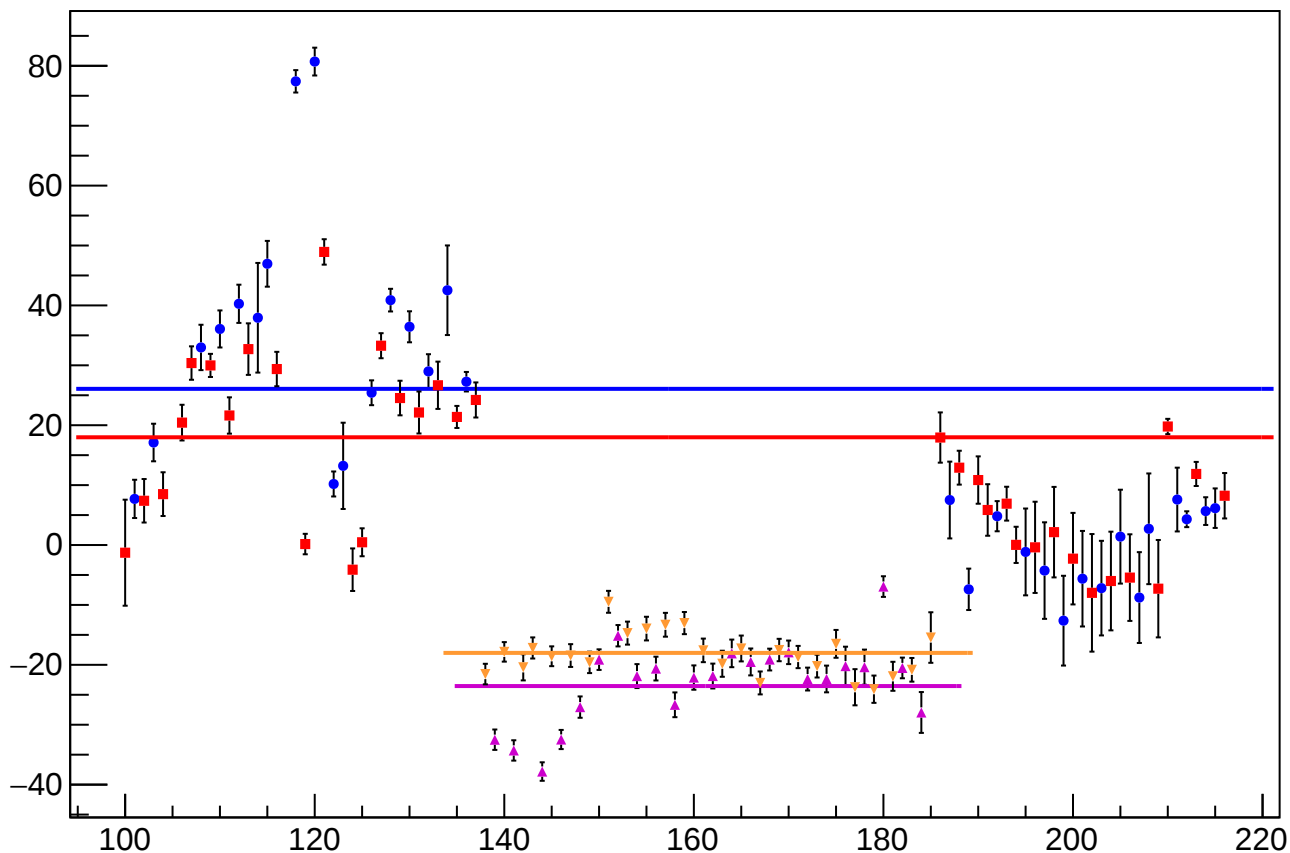
Right: 1520.959 ± 0.183 $\chi^2/\text{NDF}: 1428826.6/66$

In: 1617.153 ± 0.196 $\chi^2/\text{NDF}: 1462678.5/54$

Out: 1610.848 ± 0.191 $\chi^2/\text{NDF}: 1470036.2/59$

All: 1613.915 ± 0.137 $\chi^2/\text{NDF}: 2933245.9/111$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 26.073 ± 0.518 χ^2/NDF : 2255.2/31

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 17.986 ± 0.484 χ^2/NDF : 733.4/34

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

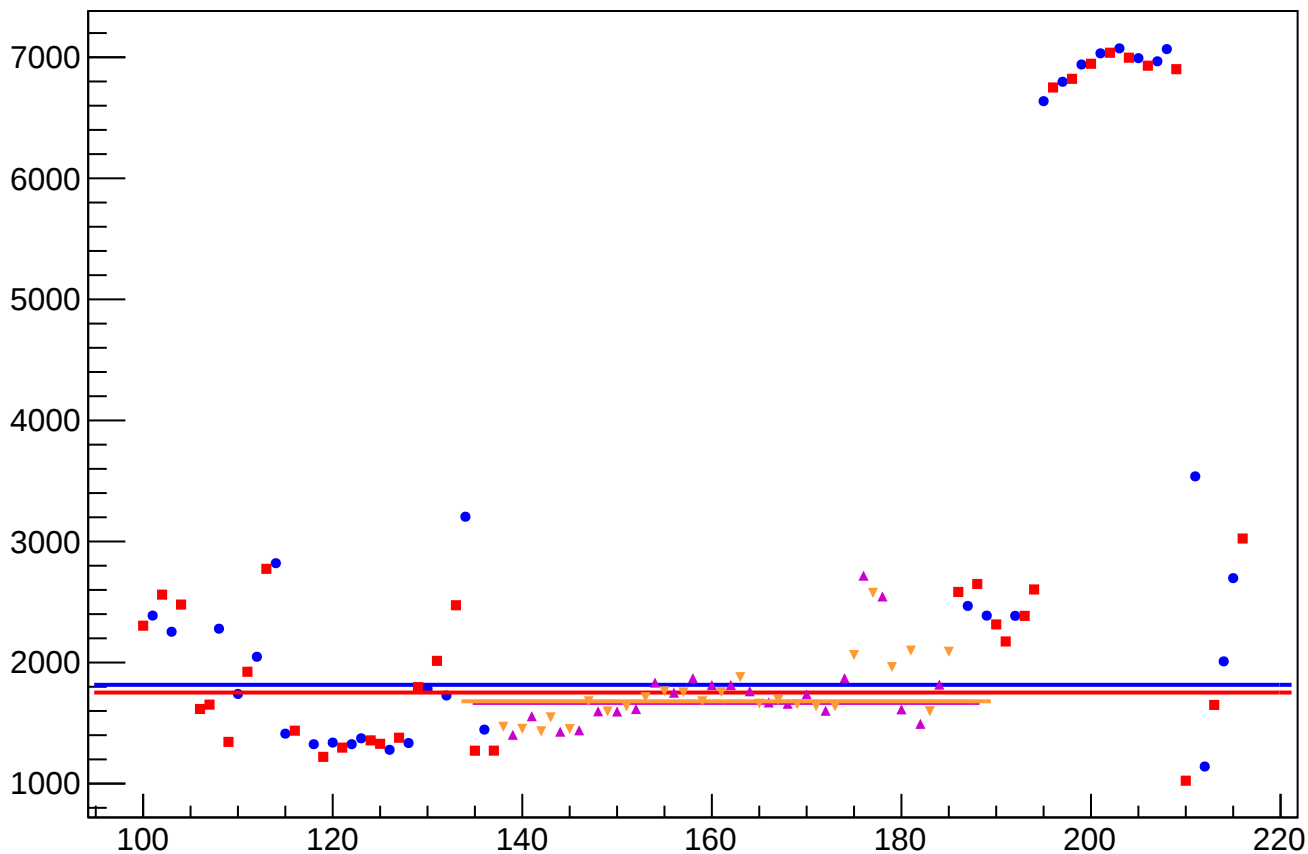
Right: 21.759 ± 0.354 χ^2/NDF : 3118.8/66

In: -4.667 ± 0.319 χ^2/NDF : 8293.8/54

Out: -3.550 ± 0.307 χ^2/NDF : 4113.9/59

All: -4.087 ± 0.221 χ^2/NDF : 12414.1/114

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1816.034 $\pm$ 0.366 χ^2 /NDF: 8802868.3/31

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1752.308 $\pm$ 0.342 χ^2 /NDF: 8517306.7/34

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

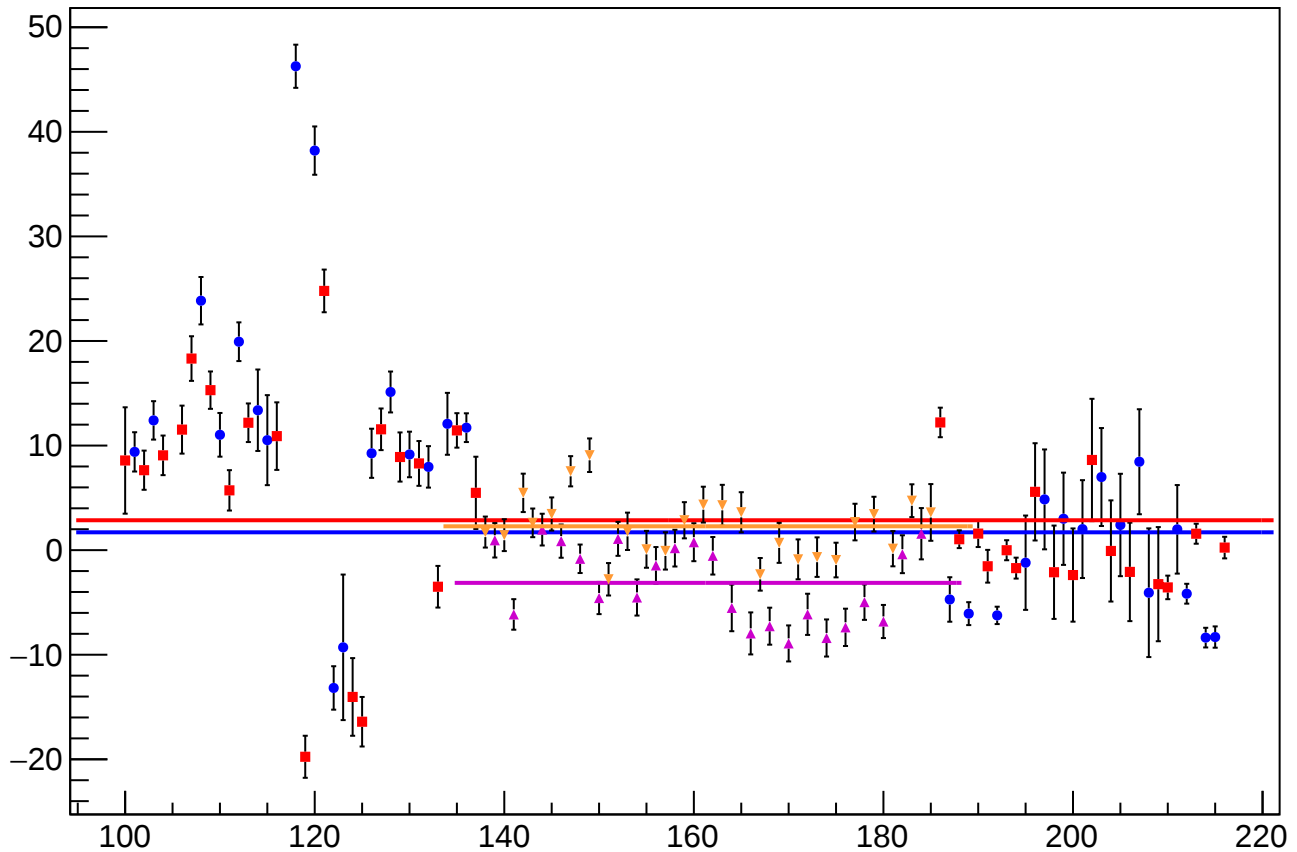
Right: 1782.042 $\pm$ 0.250 χ^2 /NDF: 17336342.2/66

In: 1723.588 $\pm$ 0.226 χ^2 /NDF: 9556812.2/54

Out: 1708.933 $\pm$ 0.217 χ^2 /NDF: 9066930.7/59

All: 1715.969 $\pm$ 0.156 χ^2 /NDF: 18625933.2/115

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: 2.858 $\pm$ 0.286 χ^2/NDF : 701.3/34

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

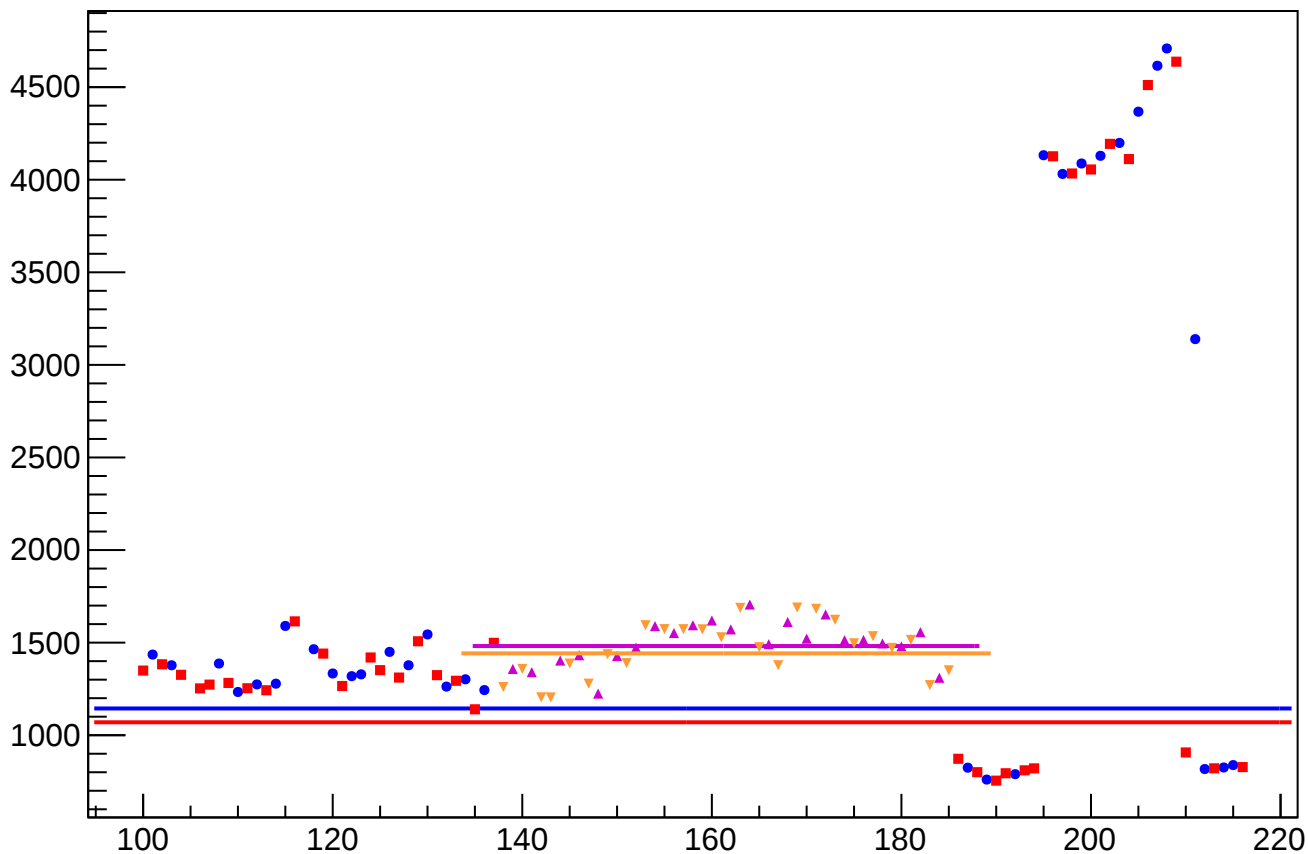
Right: 2.346 $\pm$ 0.213 χ^2/NDF : 2304.5/66

In: -0.446 $\pm$ 0.239 χ^2/NDF : 1800.8/54

Out: 2.617 $\pm$ 0.219 χ^2/NDF : 778.5/59

All: 1.219 $\pm$ 0.161 χ^2/NDF : 2668.9/114

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1144.488 $\pm$ 0.226 χ^2 /NDF: 8775691.6/31

Left Out: 1441.951 $\pm$ 0.239 χ^2 /NDF: 370617.4/24

Right Out: 1069.824 $\pm$ 0.203 χ^2 /NDF: 7479612.6/34

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2 /NDF: 592125.7/47

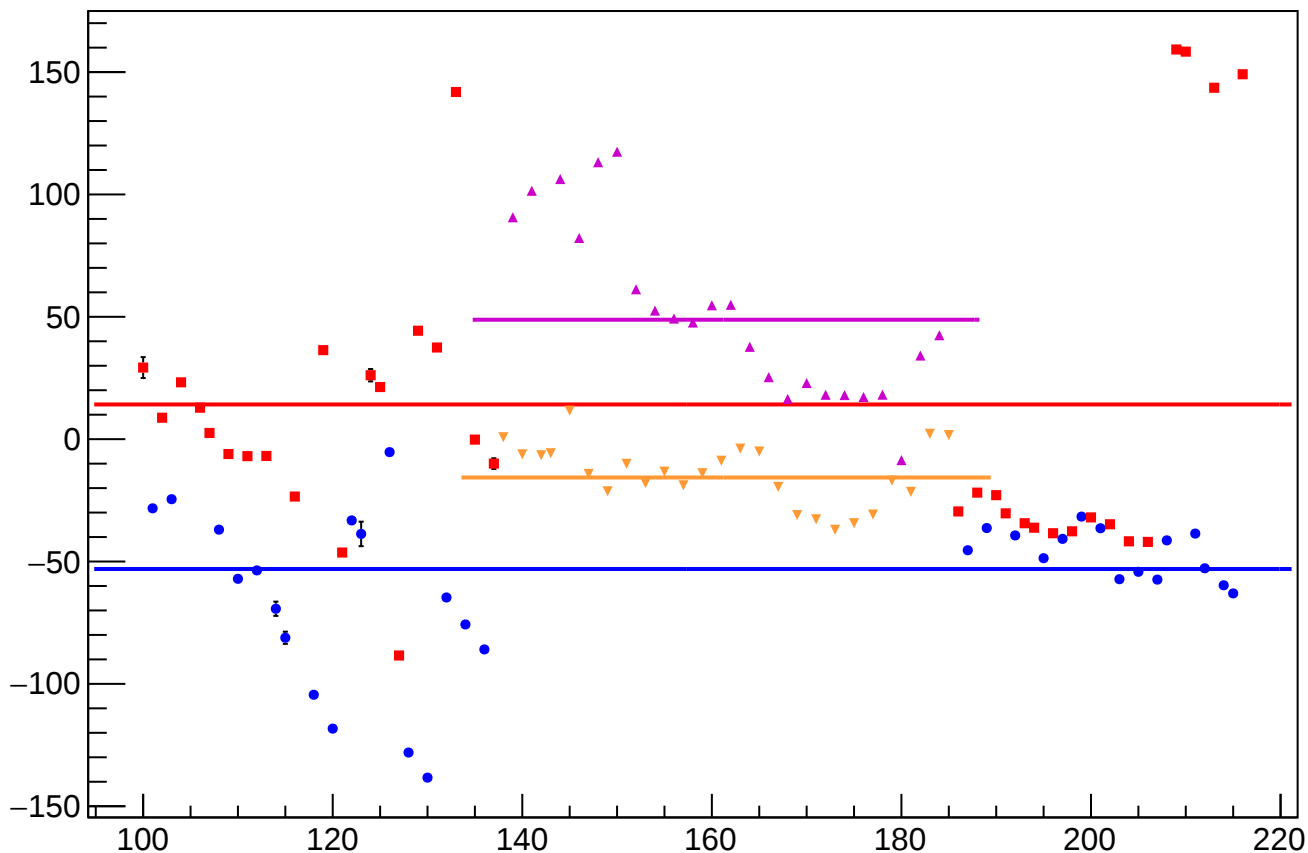
Right: 1103.006 $\pm$ 0.151 χ^2 /NDF: 16315701.2/66

In: 1294.554 $\pm$ 0.169 χ^2 /NDF: 9970924.5/54

Out: 1225.231 $\pm$ 0.155 χ^2 /NDF: 9260038.9/59

All: 1256.866 $\pm$ 0.114 χ^2 /NDF: 19322760.8/115

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.064 ± 0.171 $\chi^2/\text{NDF}: 17910.9/31$

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

Right Out: 14.182 ± 0.170 $\chi^2/\text{NDF}: 201560.4/34$

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

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

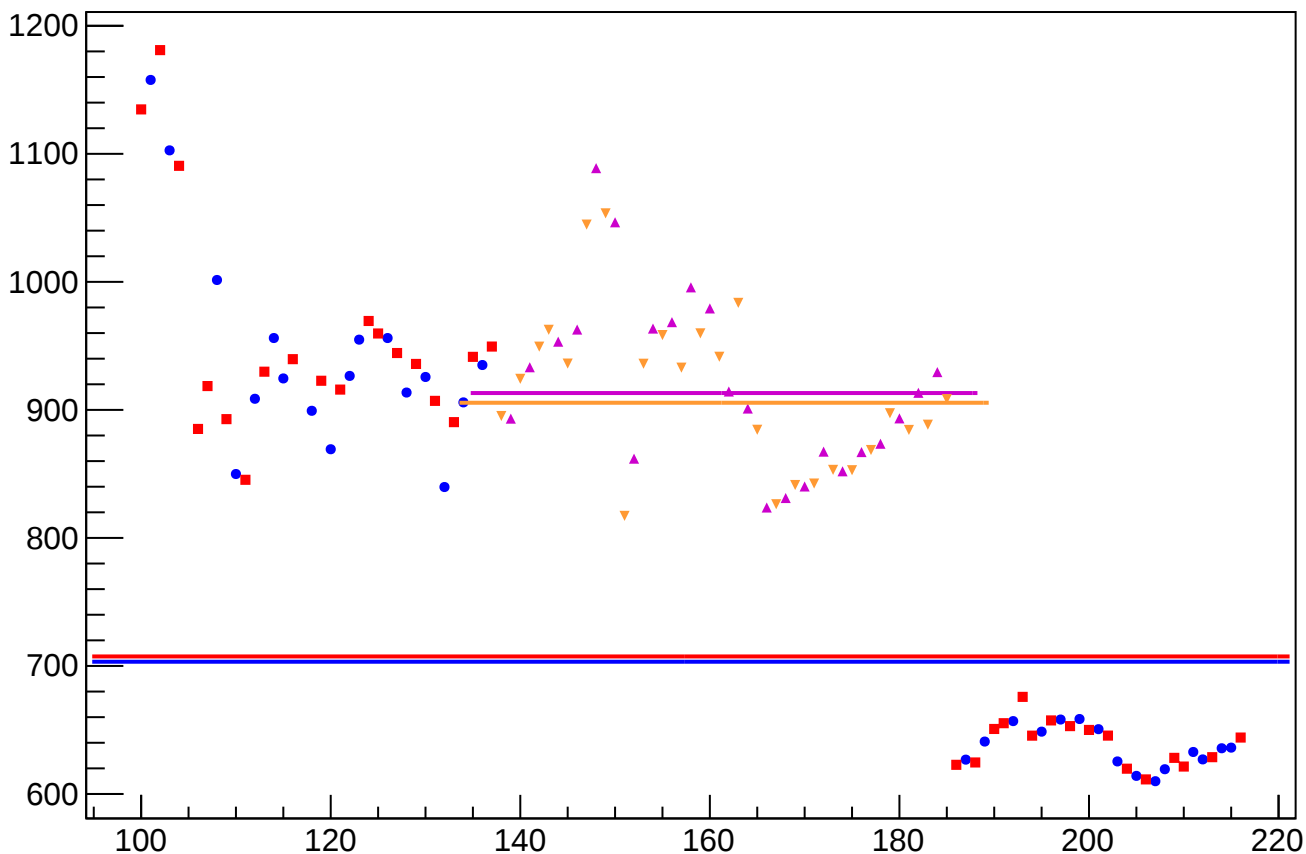
Right: -19.117 ± 0.121 $\chi^2/\text{NDF}: 297205.7/66$

In: -14.566 ± 0.135 $\chi^2/\text{NDF}: 176728.5/54$

Out: 2.491 ± 0.132 $\chi^2/\text{NDF}: 217192.1/59$

All: -5.860 ± 0.095 $\chi^2/\text{NDF}: 402049.0/114$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 703.301 ± 0.121 χ^2/NDF : 1183477.1/31

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 707.421 ± 0.120 χ^2/NDF : 1229216.4/34

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

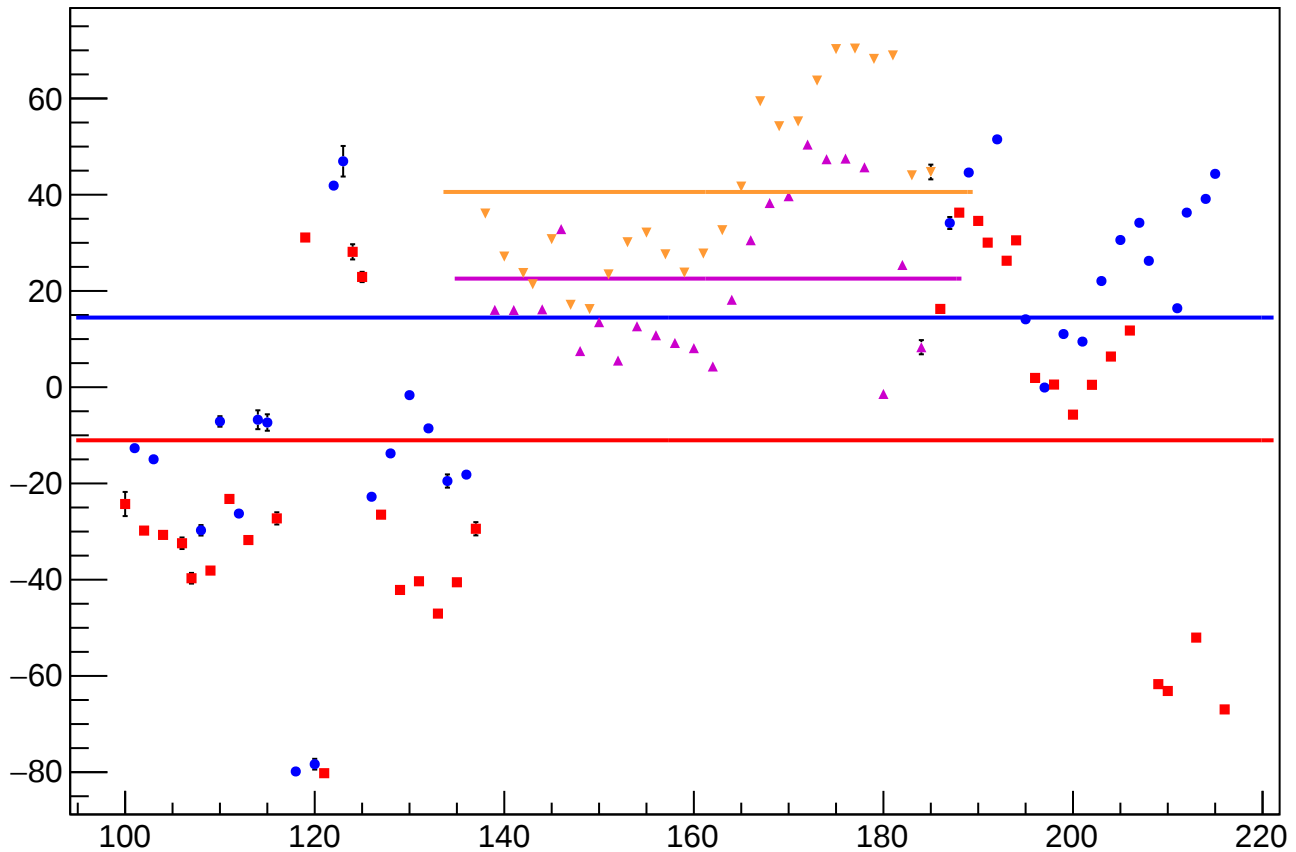
Right: 705.381 ± 0.085 χ^2/NDF : 2413277.2/66

In: 782.606 ± 0.096 χ^2/NDF : 2491430.6/54

Out: 785.036 ± 0.094 χ^2/NDF : 2459119.5/59

All: 783.846 ± 0.067 χ^2/NDF : 4950879.9/114

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 14.469 ± 0.128 $\chi^2/\text{NDF}: 48651.1/31$

Left Out: 40.573 ± 0.168 $\chi^2/\text{NDF}: 12079.0/24$

Right Out: -11.035 ± 0.126 $\chi^2/\text{NDF}: 76556.7/34$

Left In: 22.565 ± 0.175 $\chi^2/\text{NDF}: 8167.7/22$

Left: 31.959 ± 0.121 $\chi^2/\text{NDF}: 25752.7/47$

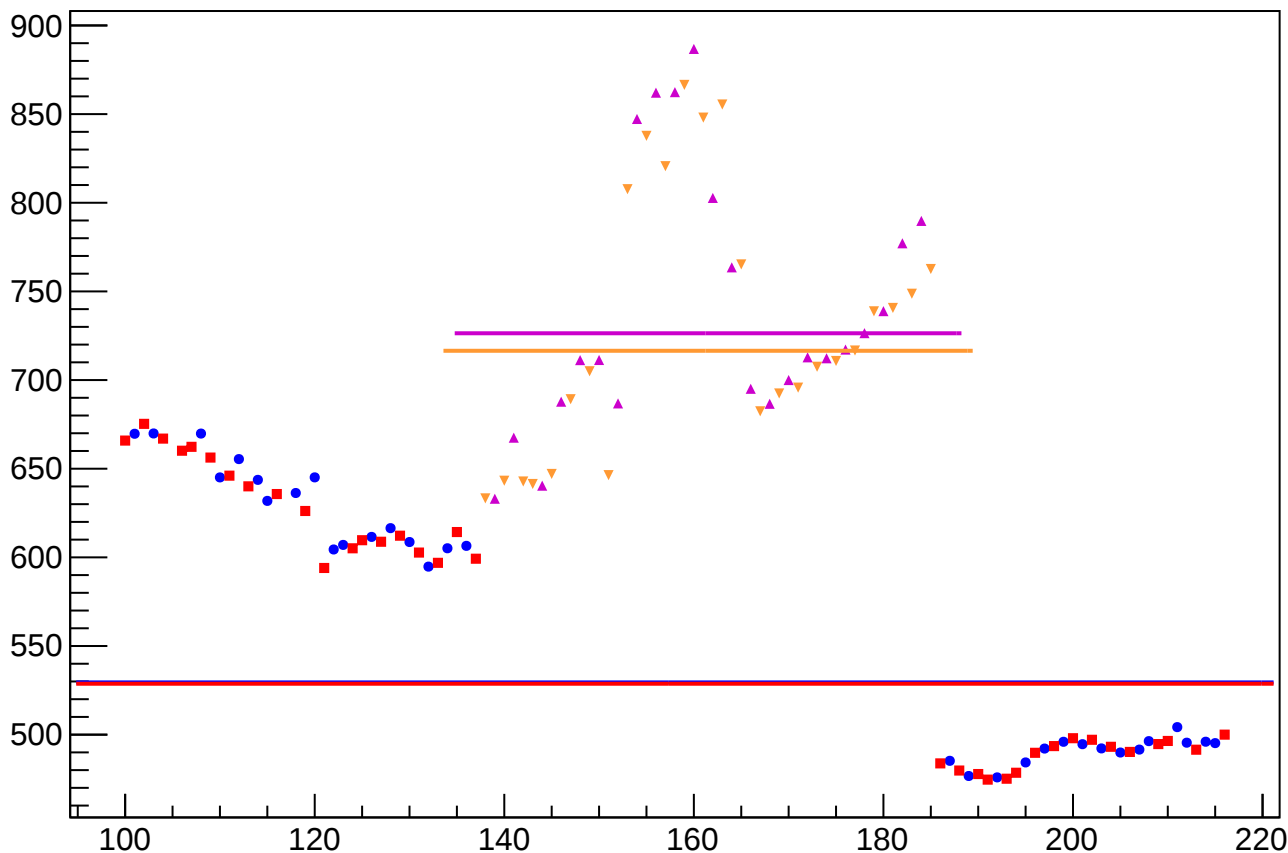
Right: 1.505 ± 0.090 $\chi^2/\text{NDF}: 145485.7/66$

In: 17.276 ± 0.103 $\chi^2/\text{NDF}: 58212.5/54$

Out: 7.488 ± 0.101 $\chi^2/\text{NDF}: 149247.0/59$

All: 12.255 ± 0.072 $\chi^2/\text{NDF}: 212073.8/114$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 529.465 ± 0.090 χ^2/NDF : 499181.3/31

Left Out: 716.515 ± 0.119 χ^2/NDF : 342740.2/24

Right Out: 528.726 ± 0.089 χ^2/NDF : 539985.9/34

Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

Left: 721.238 ± 0.086 χ^2/NDF : 635840.6/47

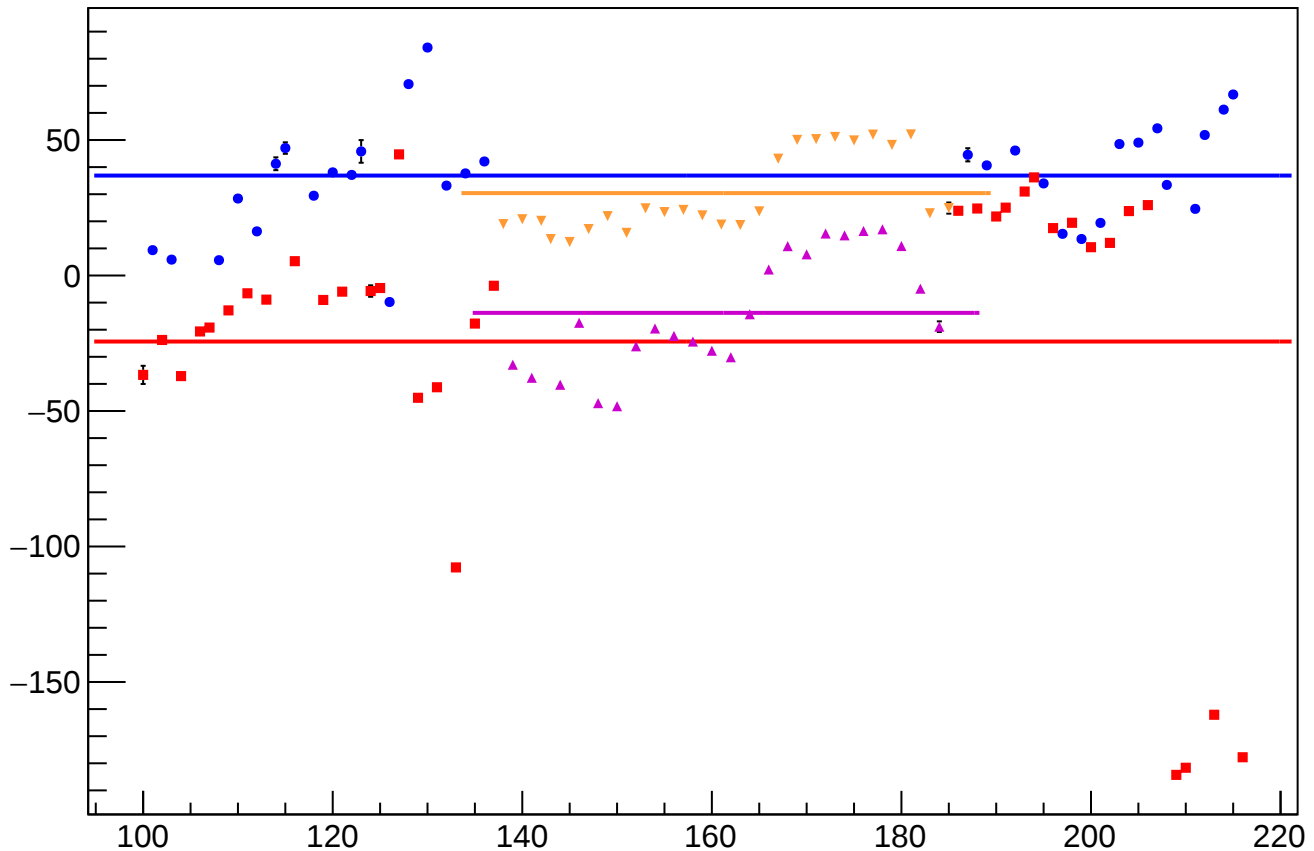
Right: 529.090 ± 0.063 χ^2/NDF : 1039201.2/66

In: 597.742 ± 0.073 χ^2/NDF : 2438115.1/54

Out: 596.128 ± 0.071 χ^2/NDF : 2487795.1/59

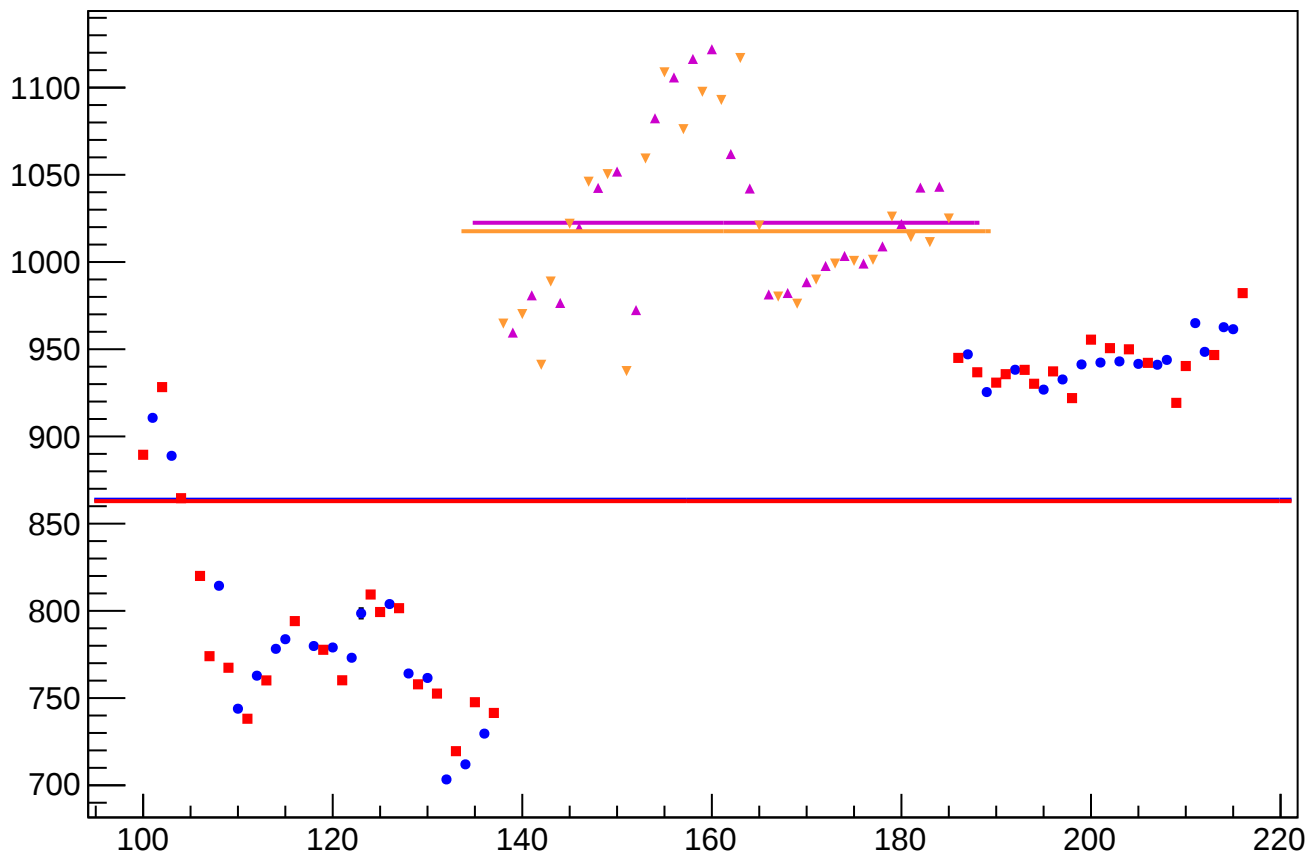
All: 596.914 ± 0.051 χ^2/NDF : 4926161.2/114

diff_bpm1i04X_mean vs Slug, Sign Corrected



Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$
 Right: 5.733 ± 0.146 $\chi^2/\text{NDF}: 159325.4/66$
 In: 15.737 ± 0.159 $\chi^2/\text{NDF}: 42580.2/54$
 Out: -1.034 ± 0.155 $\chi^2/\text{NDF}: 139765.2/59$

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: 862.900 $\pm$ 0.145 χ^2 /NDF: 367863.6/34

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

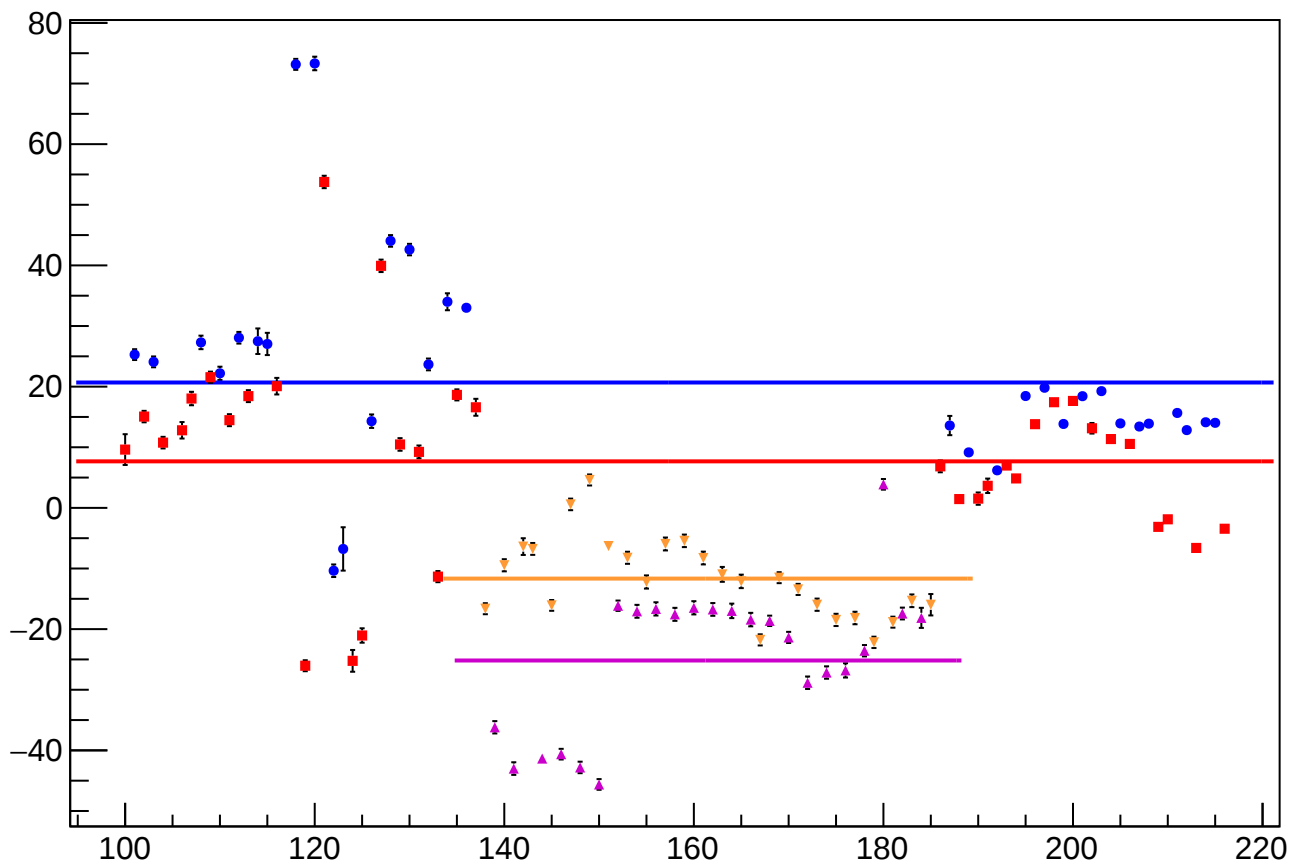
Right: 863.316 $\pm$ 0.103 χ^2 /NDF: 759663.2/66

In: 929.996 $\pm$ 0.112 χ^2 /NDF:947527.6/54

Out: 928.815 $\pm$ 0.110 χ^2 /NDF:939355.0/59

All: 929.391 $\pm$ 0.078 χ^2 /NDF: 1886939.2/114

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.683 ± 0.148 $\chi^2/\text{NDF}: 9821.9/31$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 7.675 ± 0.144 $\chi^2/\text{NDF}: 8641.0/34$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

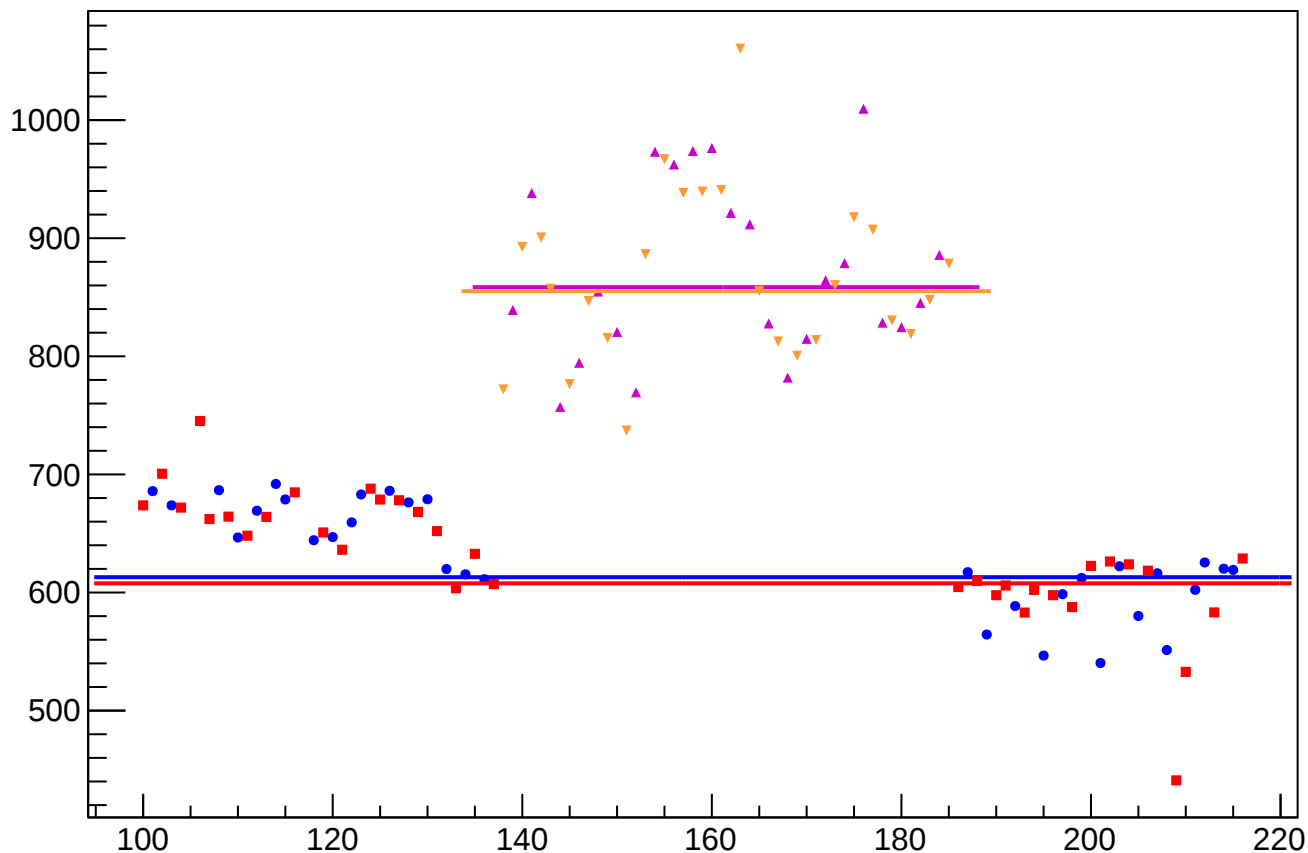
Right: 14.031 ± 0.103 $\chi^2/\text{NDF}: 22437.3/66$

In: 5.272 ± 0.120 $\chi^2/\text{NDF}: 46033.5/54$

Out: 1.071 ± 0.117 $\chi^2/\text{NDF}: 15927.7/59$

All: 3.115 ± 0.084 $\chi^2/\text{NDF}: 62588.2/114$

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: 607.750 ± 0.102 χ^2/NDF : 363516.1/34

Left In: 858.563 ± 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 ± 0.102 χ^2/NDF : 473049.9/47

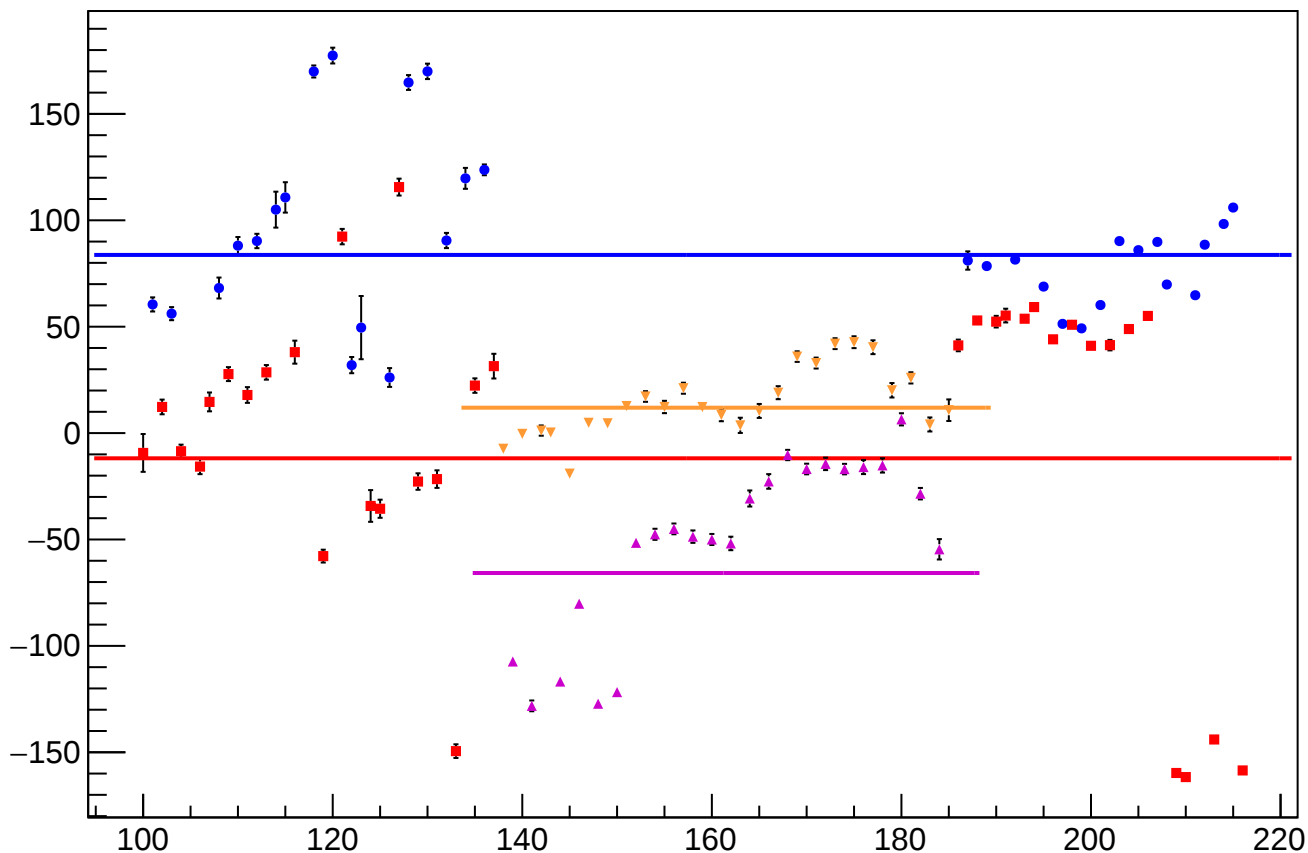
Right: 610.299 ± 0.073 χ^2/NDF : 530065.8/66

In: 695.504 ± 0.085 χ^2/NDF : 2266761.8/54

Out: 692.231 ± 0.083 χ^2/NDF : 2606486.6/59

All: 693.824 ± 0.059 χ^2/NDF : 4874009.5/114

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: -11.849 ± 0.429 $\chi^2/\text{NDF}: 43330.9/34$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

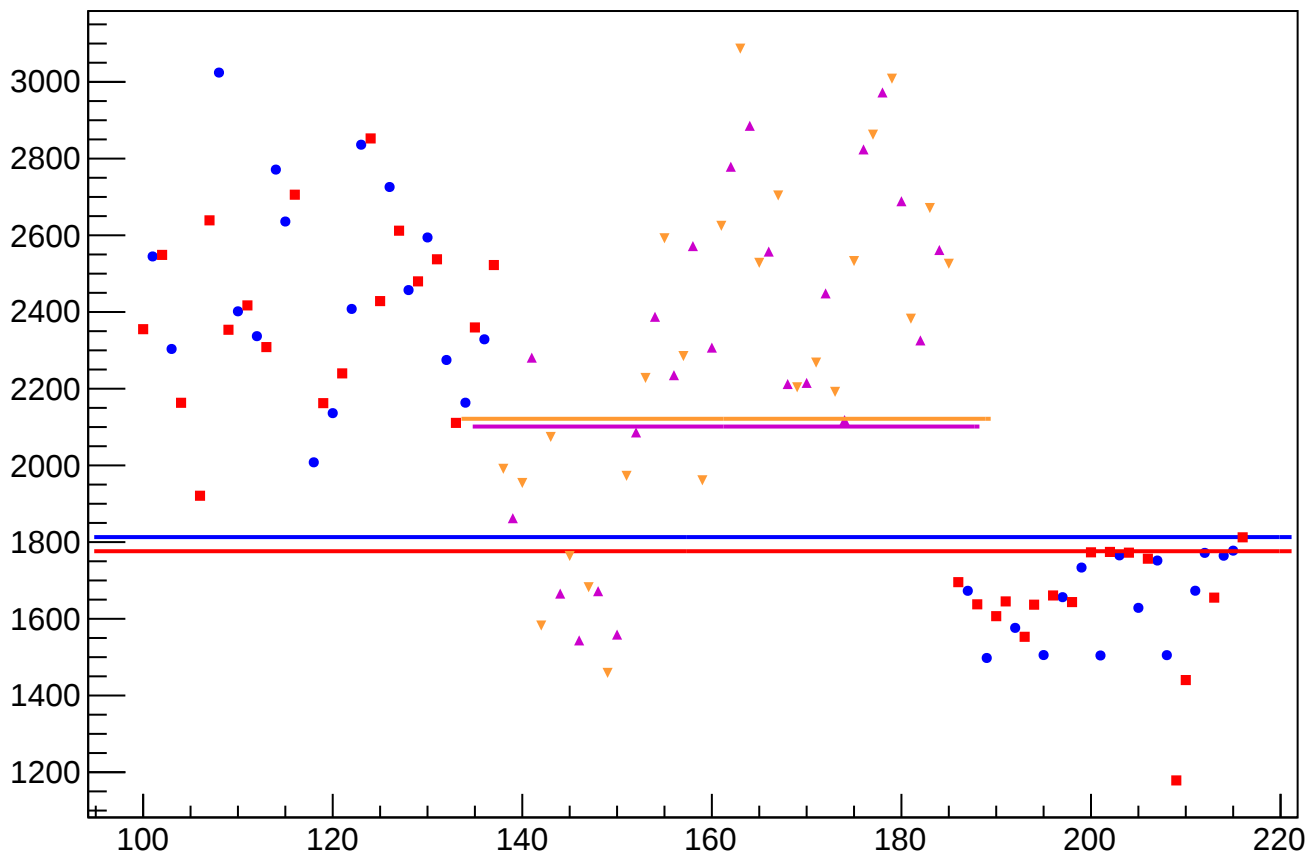
Right: 34.327 ± 0.308 $\chi^2/\text{NDF}: 72013.4/66$

In: 20.408 ± 0.337 $\chi^2/\text{NDF}: 60102.6/54$

Out: -1.884 ± 0.327 $\chi^2/\text{NDF}: 45595.2/59$

All: 8.931 ± 0.235 $\chi^2/\text{NDF}: 107951.6/114$

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: 1776.245 ± 0.303 $\chi^2/\text{NDF}: 1477968.7/34$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

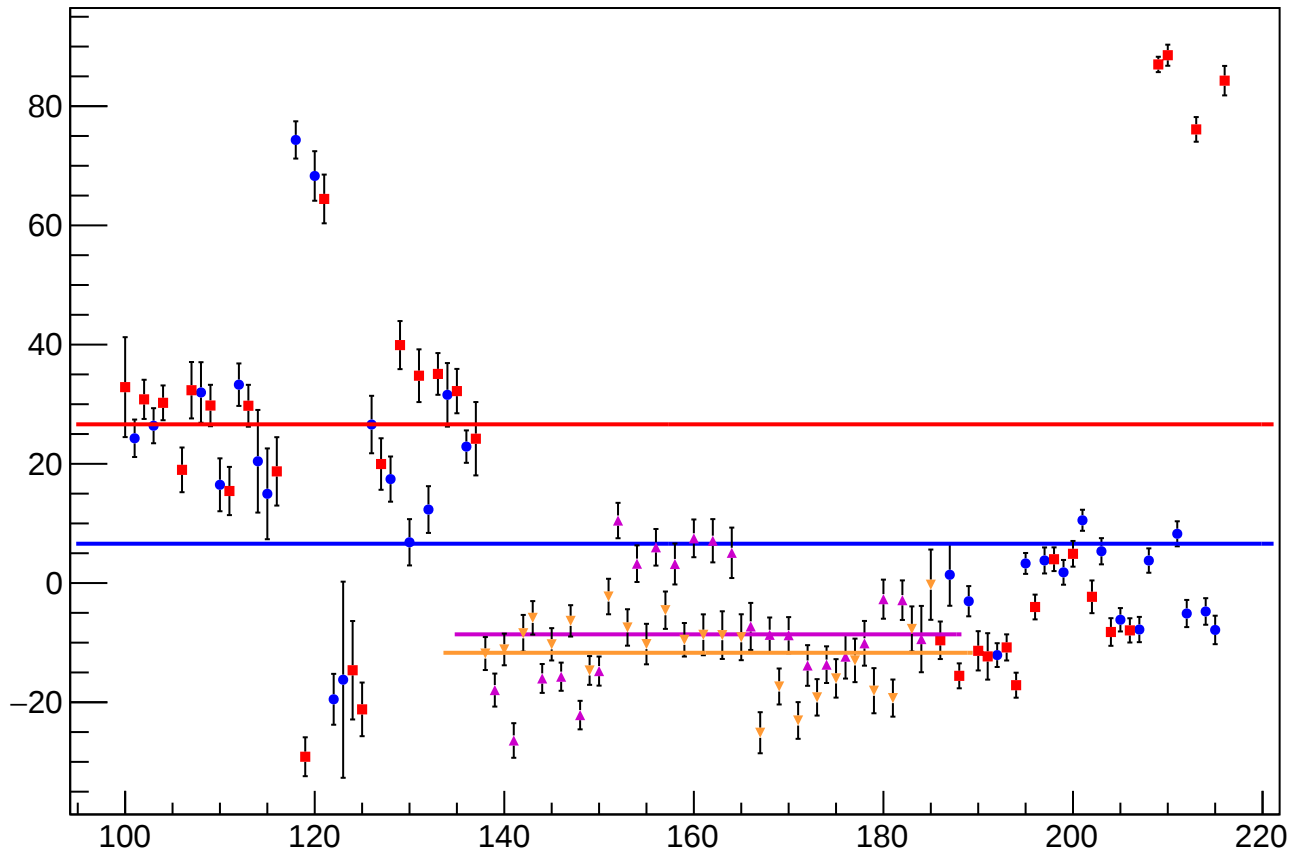
Right: 1794.038 ± 0.218 $\chi^2/\text{NDF}: 2667042.9/66$

In: 1935.178 ± 0.238 $\chi^2/\text{NDF}: 2899883.8/54$

Out: 1920.908 ± 0.231 $\chi^2/\text{NDF}: 3408545.4/59$

All: 1927.831 ± 0.166 $\chi^2/\text{NDF}: 6310276.2/11$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 6.598 ± 0.482 χ^2/NDF : 1280.4/31

Left Out: -11.700 ± 0.625 χ^2/NDF : 85.0/24

Right Out: 26.627 ± 0.463 χ^2/NDF : 7668.7/34

Left In: -8.606 ± 0.642 χ^2/NDF : 264.2/22

Left: -10.193 ± 0.448 χ^2/NDF : 361.1/47

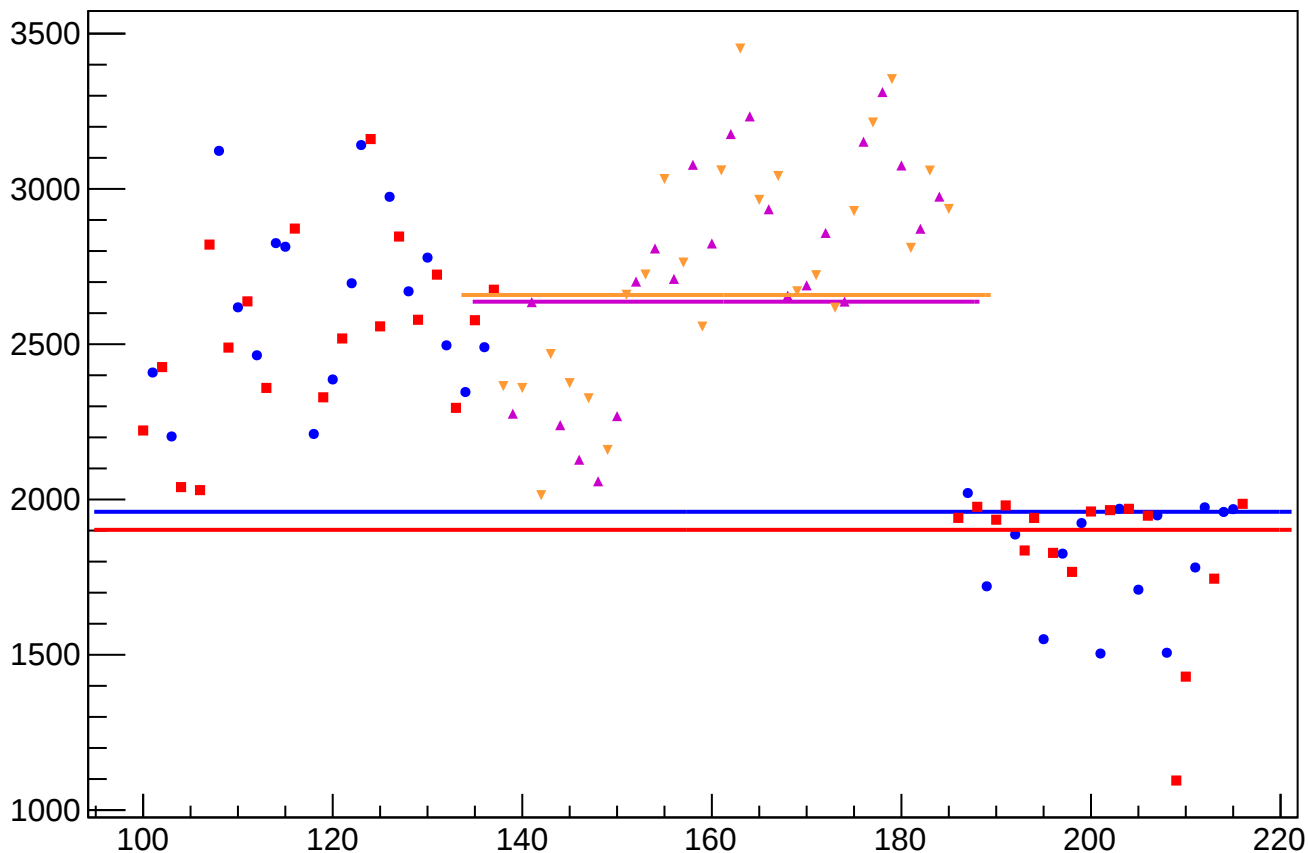
Right: 17.011 ± 0.334 χ^2/NDF : 9846.8/66

In: 1.117 ± 0.385 χ^2/NDF : 1903.4/54

Out: 13.053 ± 0.372 χ^2/NDF : 10178.8/59

All: 7.293 ± 0.268 χ^2/NDF : 12578.4/114

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: 1902.315 $\pm$ 0.328 χ^2/NDF : 1826242.0/34

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

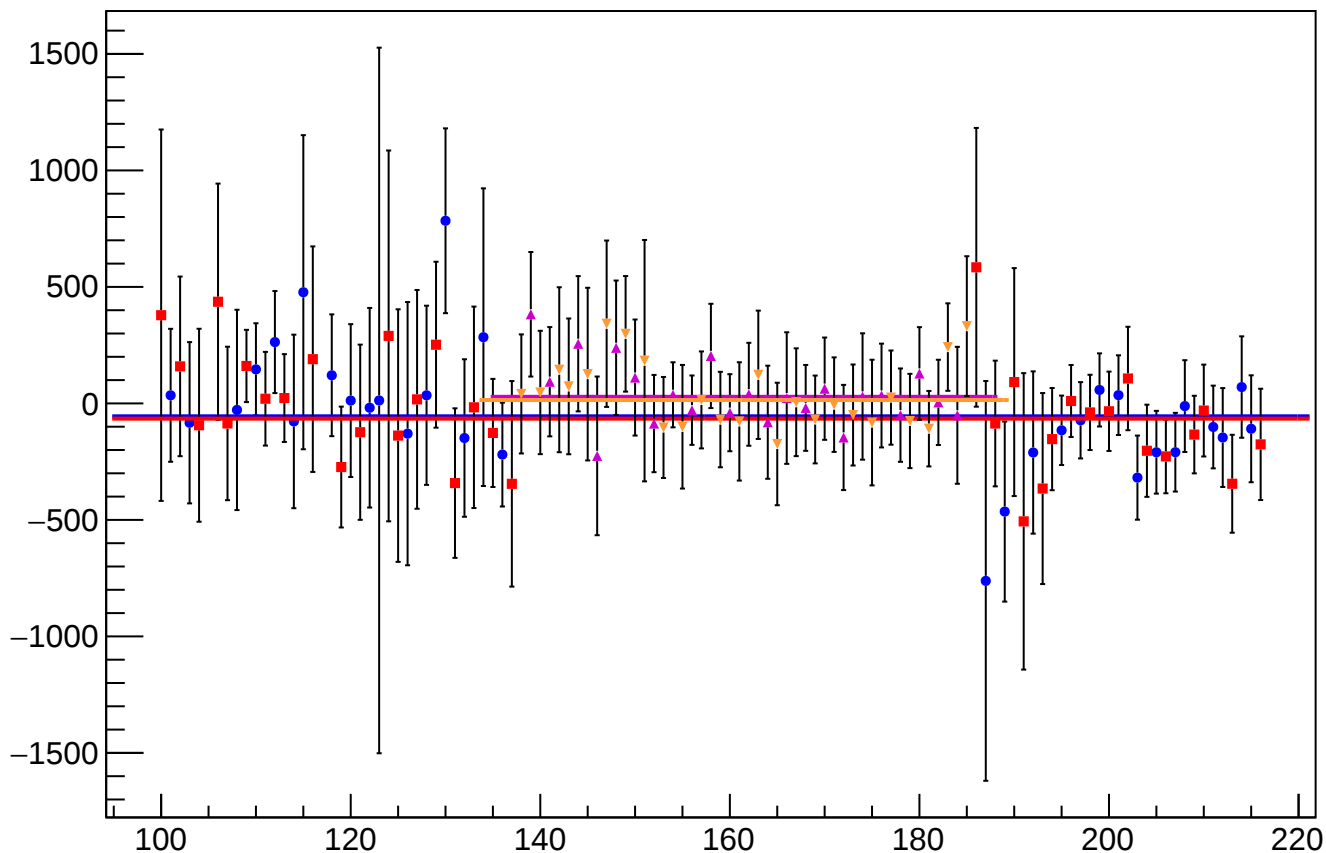
Right: 1930.218 $\pm$ 0.236 χ^2/NDF : 3022524.6/66

In: 2204.300 $\pm$ 0.273 χ^2/NDF : 3254312.4/54

Out: 2170.124 $\pm$ 0.263 χ^2/NDF : 4332435.8/59

All: 2186.616 $\pm$ 0.189 χ^2/NDF : 7594884.7/11

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: -65.364 ± 42.388 $\chi^2/\text{NDF}: 14.5/34$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

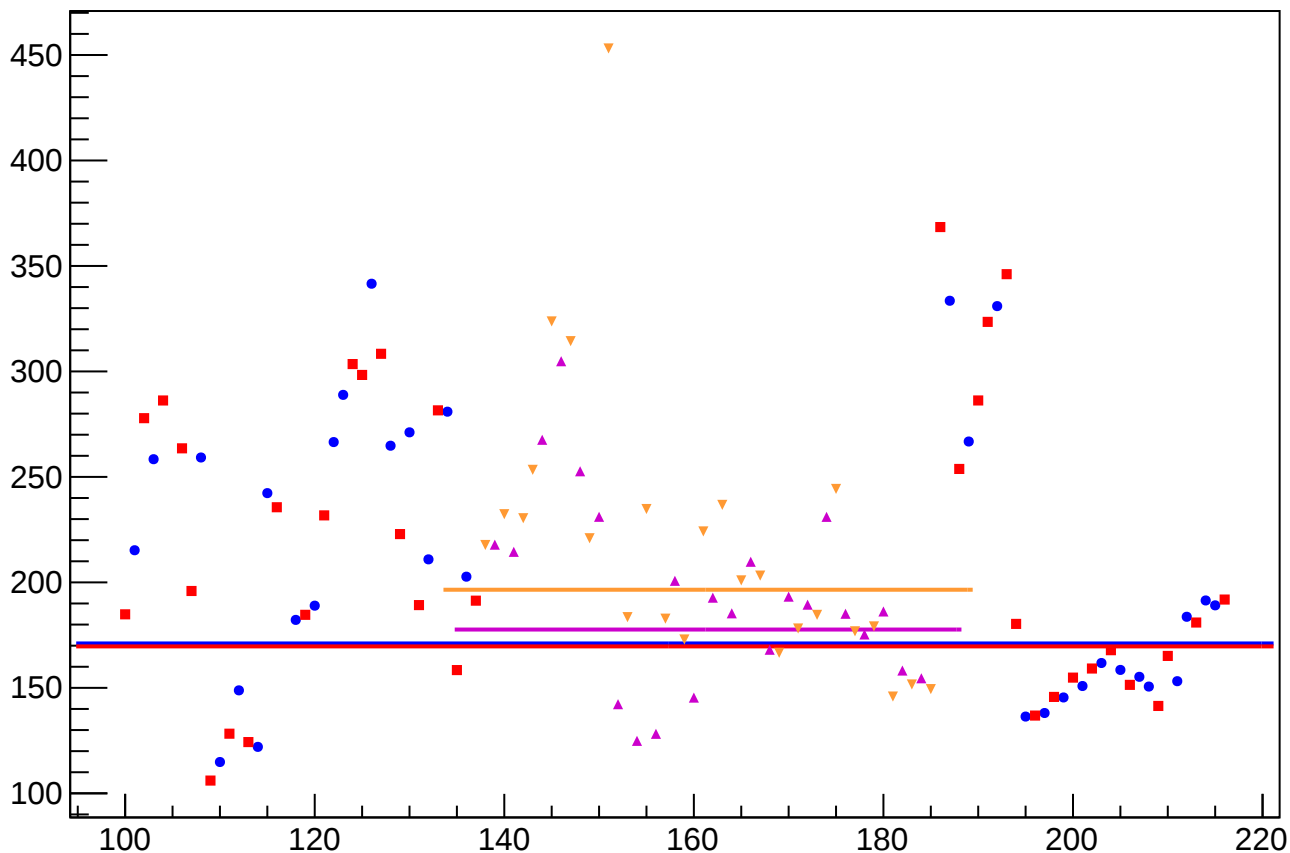
Right: -60.412 ± 30.063 $\chi^2/\text{NDF}: 31.7/66$

In: -15.457 ± 30.835 $\chi^2/\text{NDF}: 25.3/54$

Out: -29.975 ± 31.635 $\chi^2/\text{NDF}: 23.8/59$

All: -22.530 ± 22.081 $\chi^2/\text{NDF}: 49.3/114$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.050 $\pm$ 0.030 χ^2 /NDF: 2173338.2/31

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 169.653 $\pm$ 0.030 χ^2 /NDF: 2856342.4/34

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

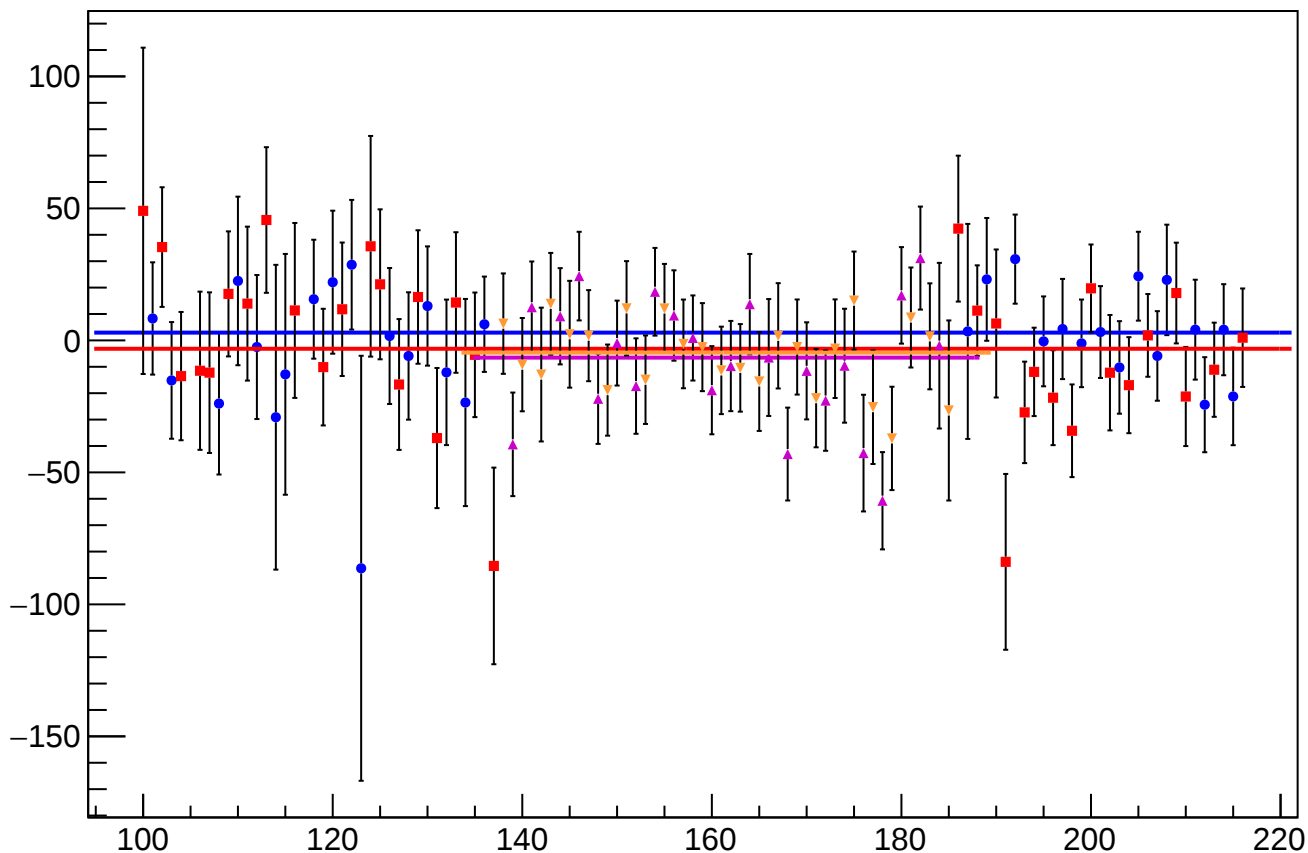
Right: 170.347 $\pm$ 0.021 χ^2 /NDF: 5030761.1/66

In: 174.196 $\pm$ 0.022 χ^2 /NDF:3826814.4/54

Out: 181.553 $\pm$ 0.022 χ^2 /NDF:5001666.7/59

All: 177.780 $\pm$ 0.016 χ^2 /NDF: 8883943.6/114

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: -3.169 ± 3.803 $\chi^2/\text{NDF}: 38.9/34$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

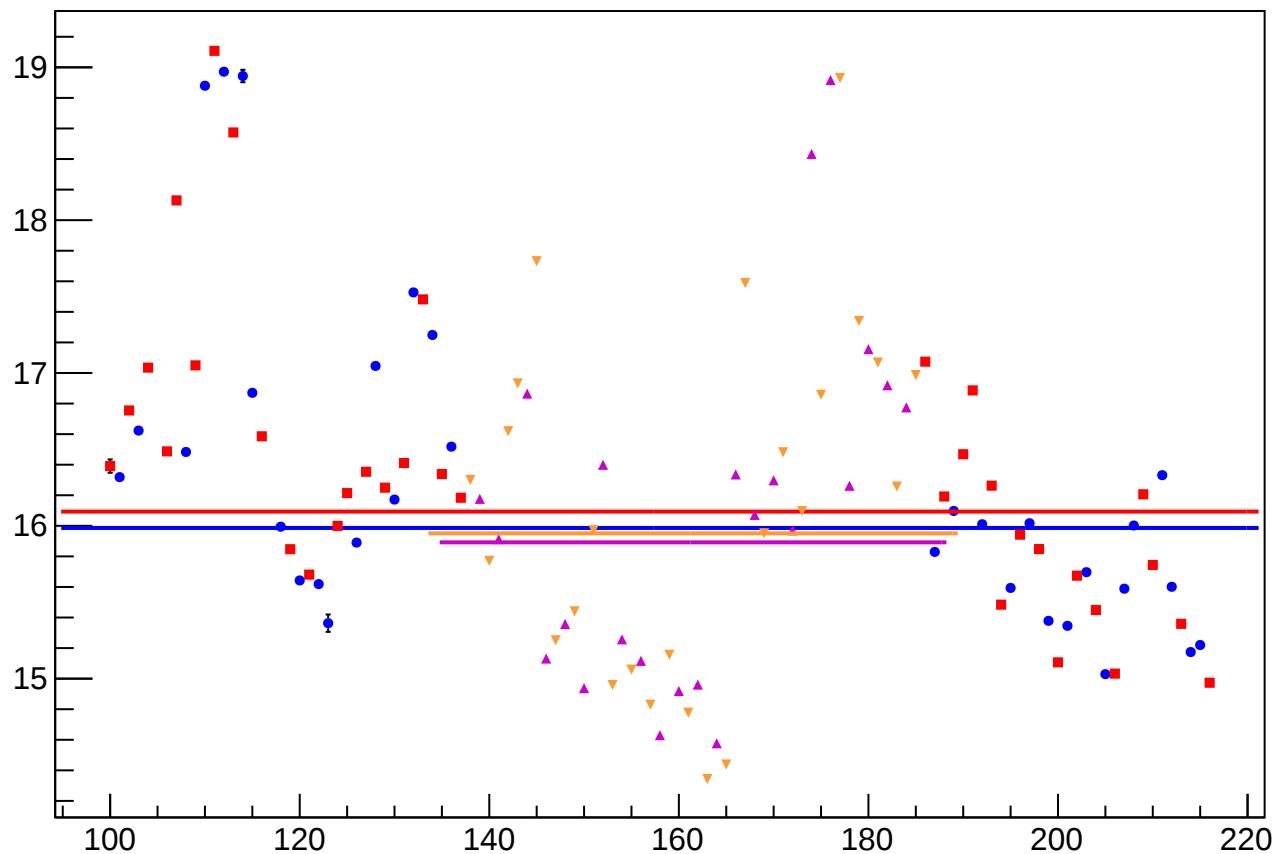
Right: -0.138 ± 2.701 $\chi^2/\text{NDF}: 58.0/66$

In: -1.800 ± 2.710 $\chi^2/\text{NDF}: 57.2/54$

Out: -3.922 ± 2.662 $\chi^2/\text{NDF}: 51.0/59$

All: -2.880 ± 1.899 $\chi^2/\text{NDF}: 108.6/114$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.986 $\pm$ 0.003 χ^2 /NDF: 88287.4/31

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.093 $\pm$ 0.003 χ^2 /NDF: 100648.6/34

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2 /NDF: 320794.5/47

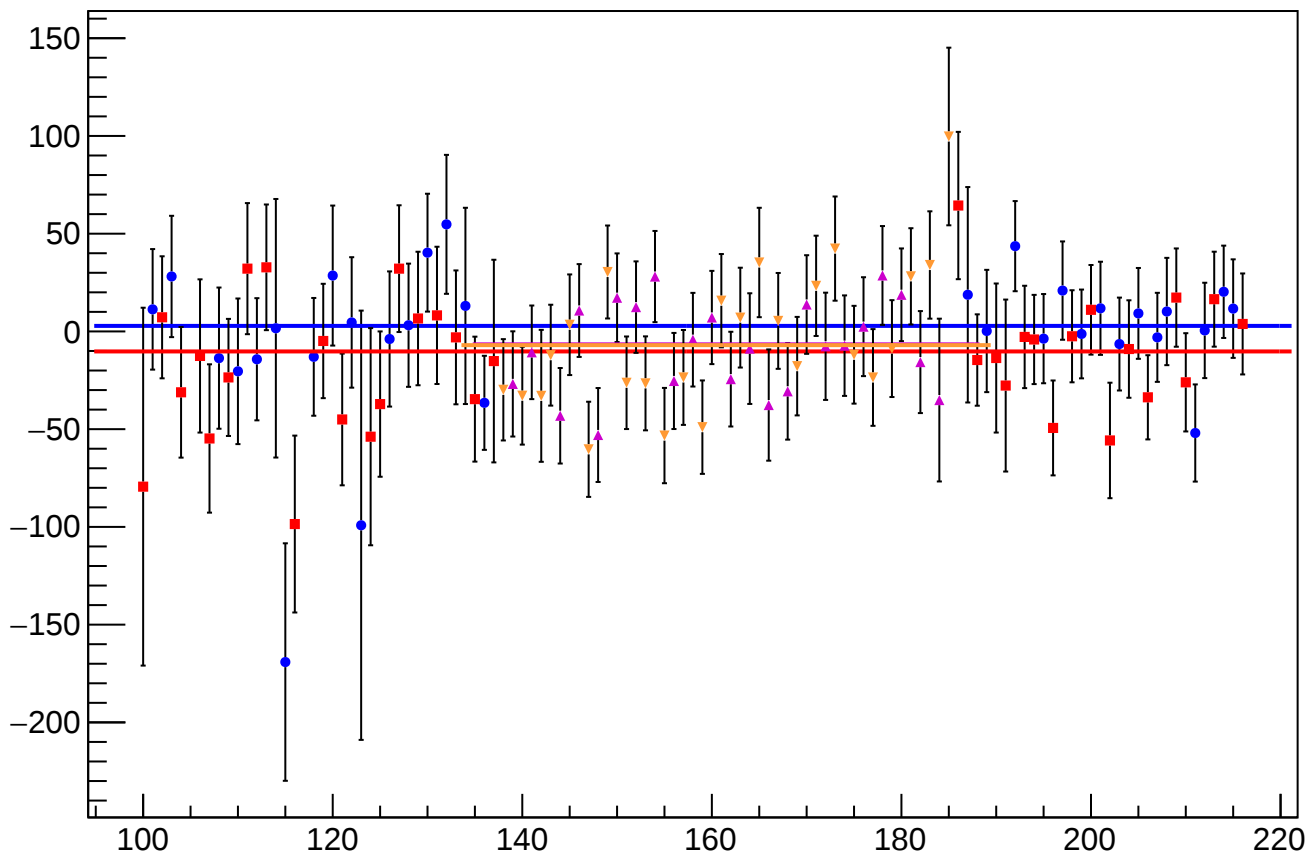
Right: 16.040 $\pm$ 0.002 χ^2 /NDF: 189723.0/66

In: 15.939 $\pm$ 0.002 χ^2 /NDF:235984.6/54

Out: 16.021 $\pm$ 0.002 χ^2 /NDF:275538.6/59

All: 15.980 $\pm$ 0.001 χ^2 /NDF: 512448.4/114

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: -10.237 ± 5.092 $\chi^2/\text{NDF}: 29.7/34$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

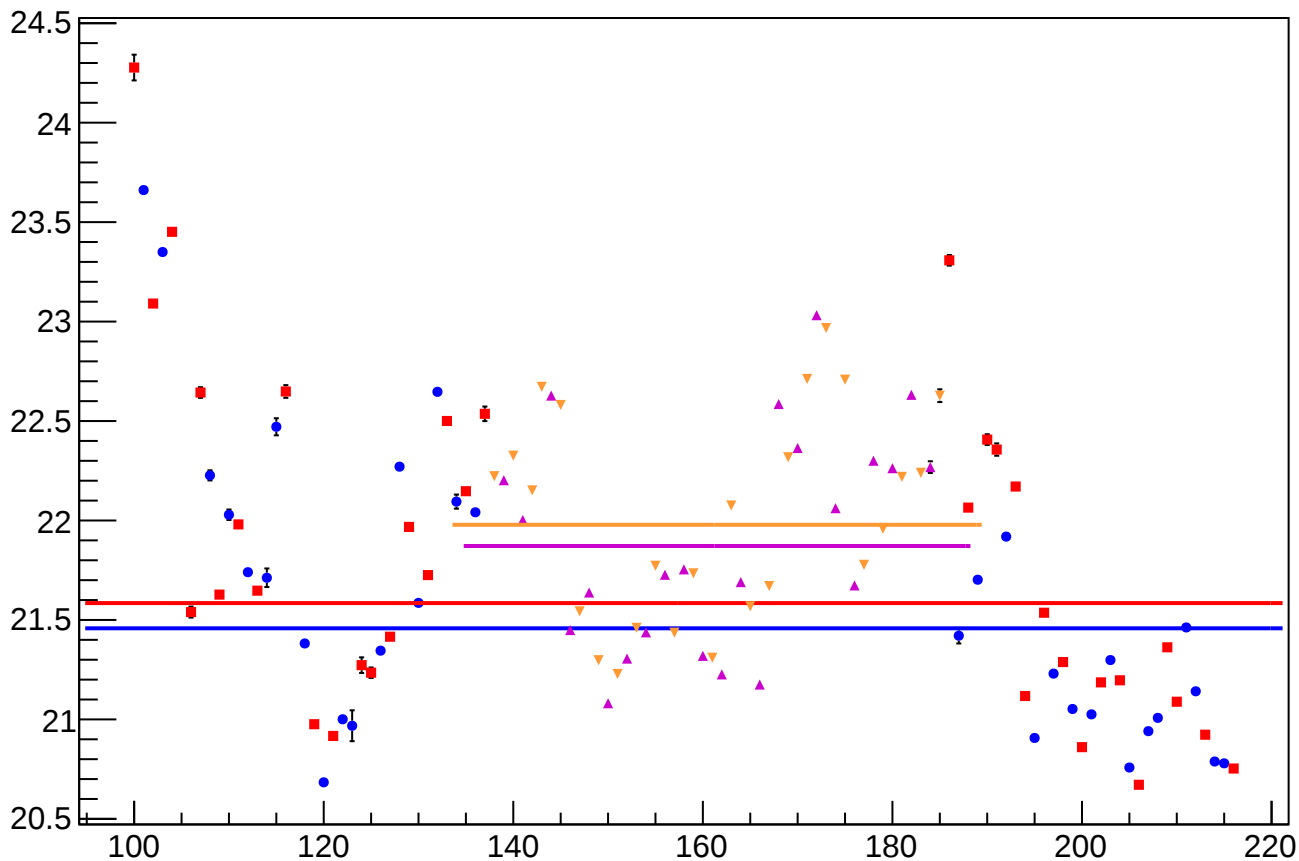
Right: -3.768 ± 3.619 $\chi^2/\text{NDF}: 60.6/66$

In: -1.792 ± 3.674 $\chi^2/\text{NDF}: 48.4/54$

Out: -8.636 ± 3.611 $\chi^2/\text{NDF}: 67.3/59$

All: -5.274 ± 2.576 $\chi^2/\text{NDF}: 117.5/114$

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: 21.585 $\pm$ 0.004 χ^2 /NDF: 40204.3/34

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

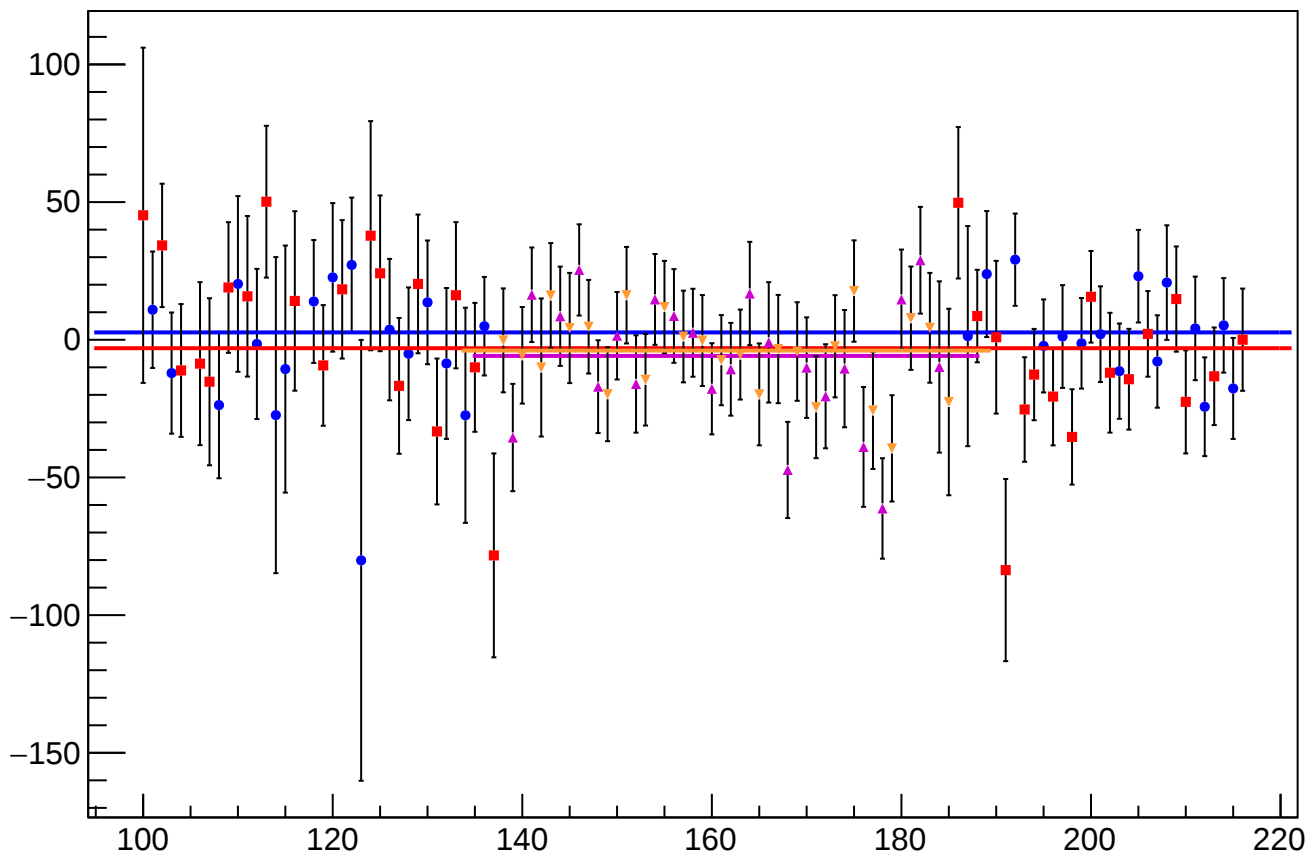
Right: 21.522 $\pm$ 0.003 χ^2 /NDF: 77491.9/66

In: 21.661 $\pm$ 0.003 χ^2 /NDF:63537.3/54

Out: 21.780 $\pm$ 0.003 χ^2 /NDF:65575.1/59

All: 21.722 $\pm$ 0.002 χ^2 /NDF: 130195.7/114

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.677 ± 3.810 $\chi^2/\text{NDF}: 16.6/31$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -3.063 ± 3.778 $\chi^2/\text{NDF}: 39.4/34$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

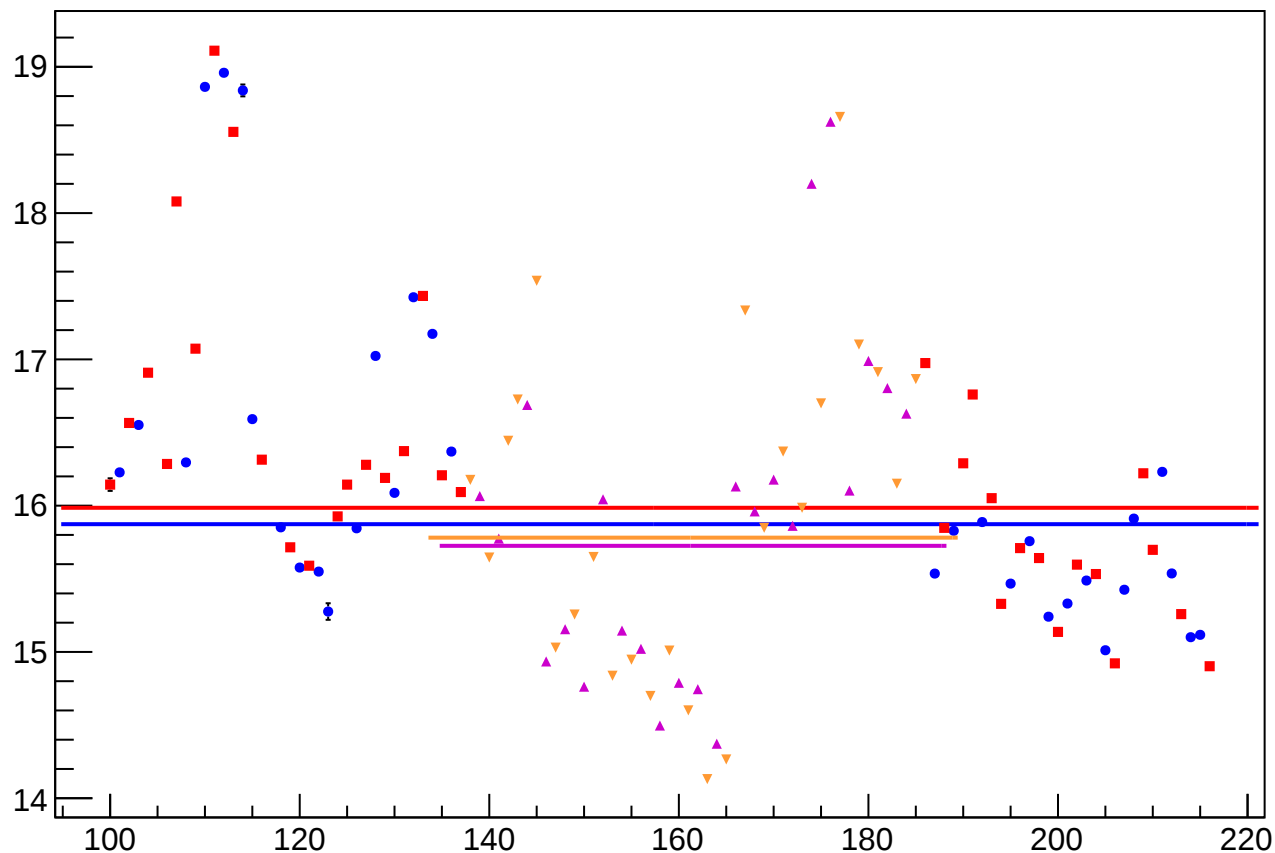
Right: -0.217 ± 2.682 $\chi^2/\text{NDF}: 57.1/66$

In: -1.618 ± 2.686 $\chi^2/\text{NDF}: 55.3/54$

Out: -3.505 ± 2.639 $\chi^2/\text{NDF}: 53.4/59$

All: -2.578 ± 1.882 $\chi^2/\text{NDF}: 109.0/114$

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: 15.985 $\pm$ 0.003 χ^2 /NDF: 102511.3/34

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

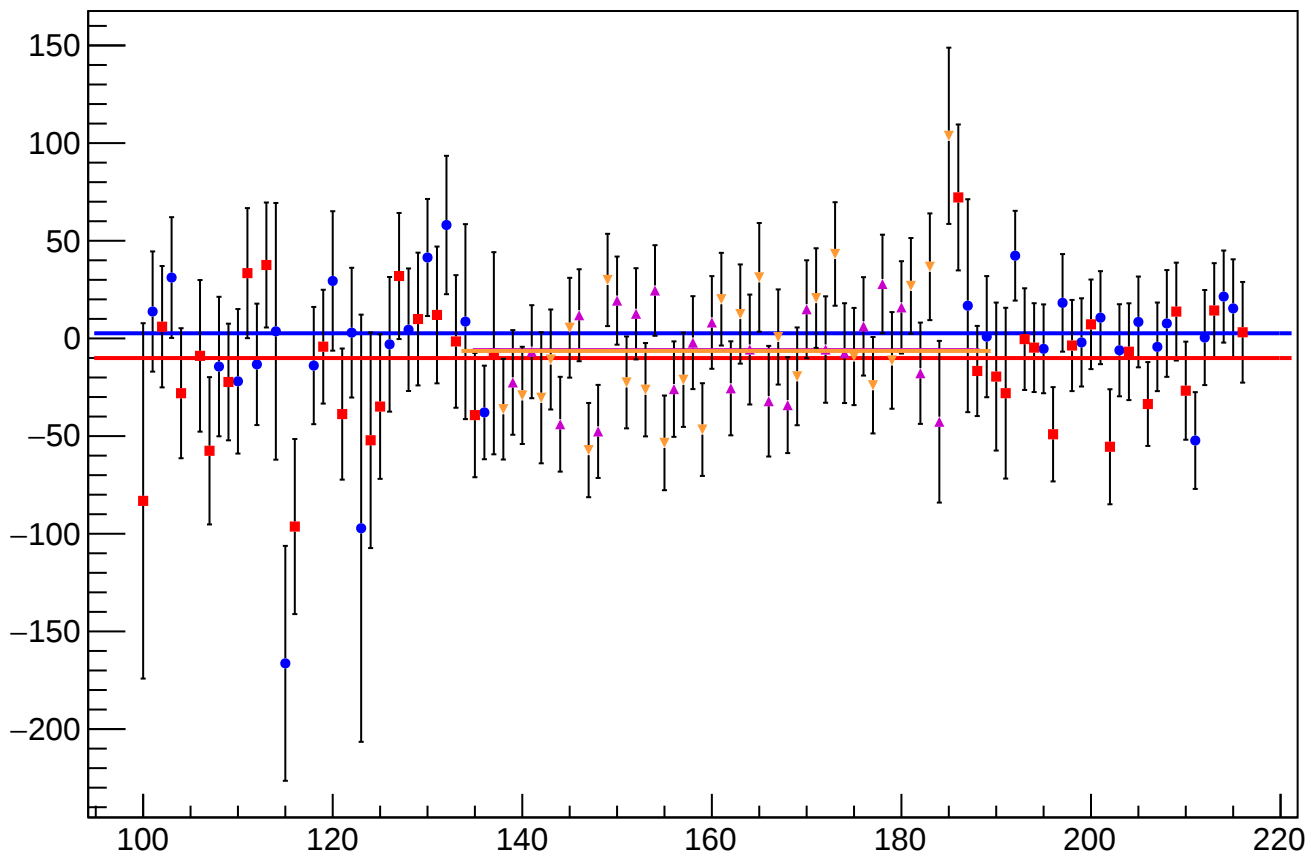
Right: 15.930 $\pm$ 0.002 χ^2 /NDF: 193857.0/66

In: 15.799 $\pm$ 0.002 χ^2 /NDF:237821.3/54

Out: 15.881 $\pm$ 0.002 χ^2 /NDF:278397.0/59

All: 15.841 $\pm$ 0.001 χ^2 /NDF: 517166.5/114

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.639 $\pm$ 5.122 χ^2 /NDF: 28.4/31

Left Out: -6.404 $\pm$ 5.091 χ^2 /NDF: 37.4/24

Right Out: -10.050 $\pm$ 5.068 χ^2 /NDF: 30.6/34

Left In: -5.978 $\pm$ 5.222 χ^2 /NDF: 18.5/22

Left: -6.196 $\pm$ 3.646 χ^2 /NDF: 55.9/47

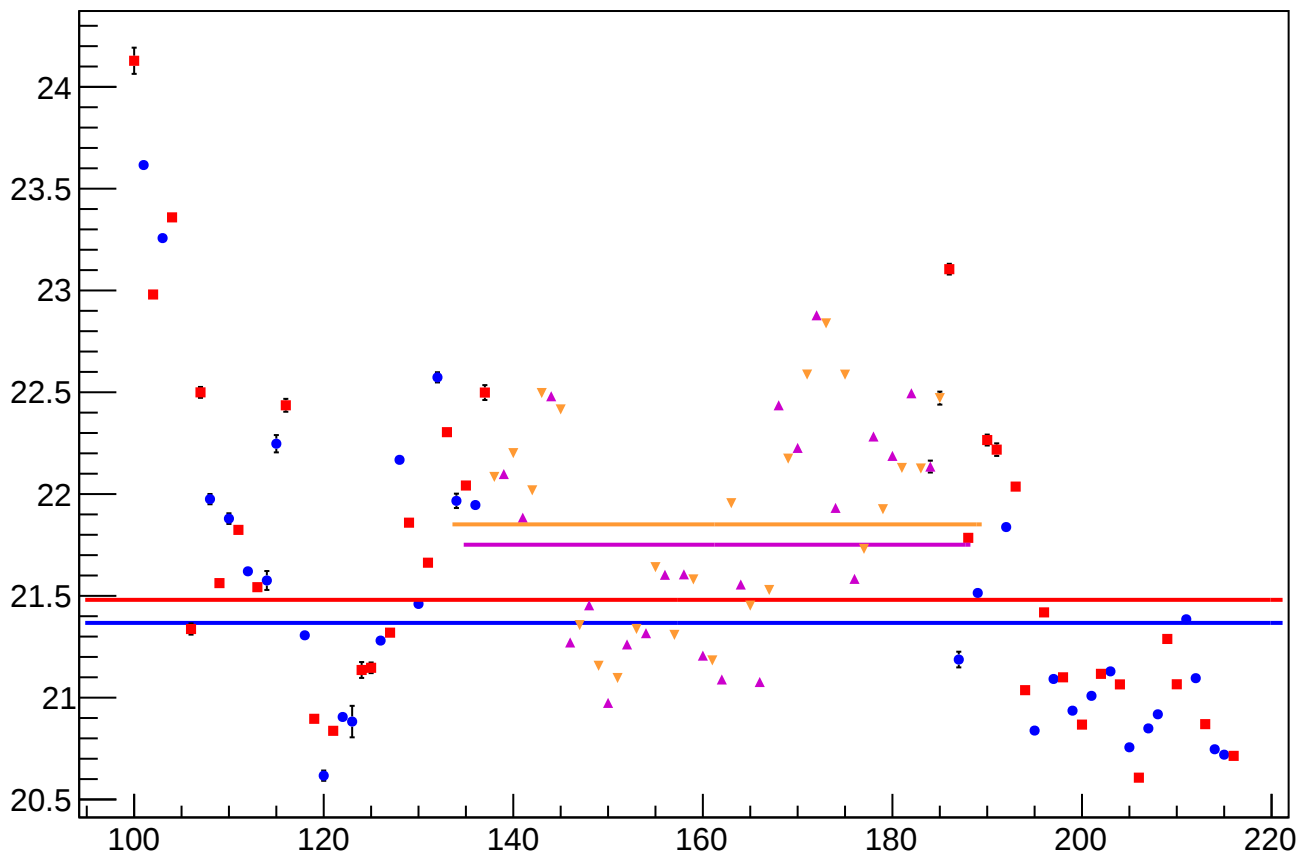
Right: -3.773 $\pm$ 3.602 χ^2 /NDF: 62.1/66

In: -1.586 $\pm$ 3.657 χ^2 /NDF: 48.3/54

Out: -8.235 $\pm$ 3.592 χ^2 /NDF: 68.2/59

All: -4.970 $\pm$ 2.562 χ^2 /NDF: 118.2/114

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.367 ± 0.004 $\chi^2/\text{NDF}: 35677.5/31$

Left Out: 21.851 ± 0.004 $\chi^2/\text{NDF}: 19631.8/24$

Right Out: 21.480 ± 0.004 $\chi^2/\text{NDF}: 37147.0/34$

Left In: 21.751 ± 0.004 $\chi^2/\text{NDF}: 20516.3/22$

Left: 21.802 ± 0.003 $\chi^2/\text{NDF}: 40523.6/47$

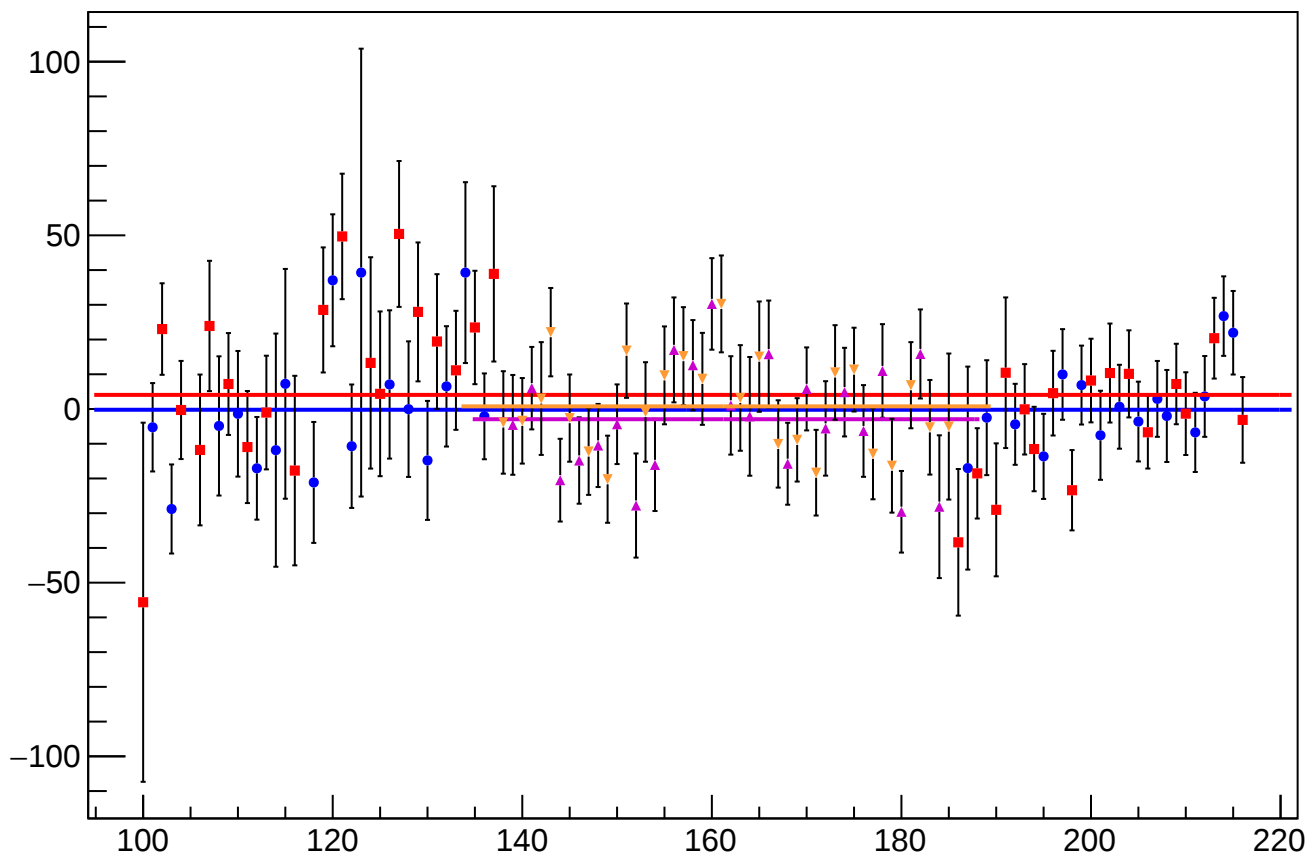
Right: 21.424 ± 0.003 $\chi^2/\text{NDF}: 73318.6/66$

In: 21.555 ± 0.003 $\chi^2/\text{NDF}: 61705.7/54$

Out: 21.665 ± 0.003 $\chi^2/\text{NDF}: 62103.9/59$

All: 21.611 ± 0.002 $\chi^2/\text{NDF}: 124722.0/114$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.218 ± 2.583 χ^2/NDF : 28.6/31

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 4.062 ± 2.577 χ^2/NDF : 47.2/34

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

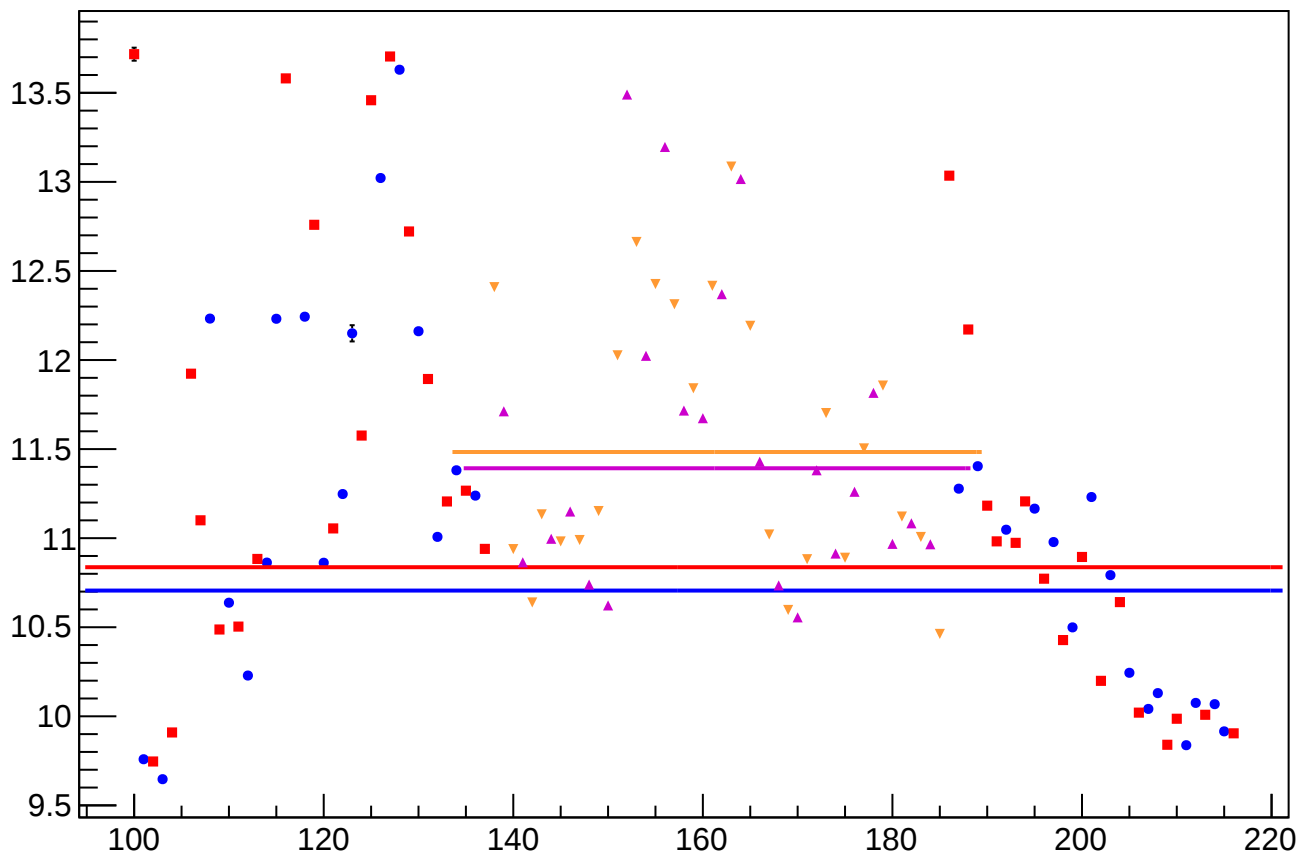
Right: 1.927 ± 1.824 χ^2/NDF : 77.2/66

In: -1.492 ± 1.885 χ^2/NDF : 60.0/54

Out: 2.486 ± 1.864 χ^2/NDF : 71.8/59

All: 0.520 ± 1.325 χ^2/NDF : 134.1/114

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: 10.837 ± 0.002 $\chi^2/\text{NDF}: 279658.1/34$

Left In: 11.392 ± 0.002 $\chi^2/\text{NDF}: 150493.3/22$

Left: 11.439 ± 0.001 $\chi^2/\text{NDF}: 281419.2/47$

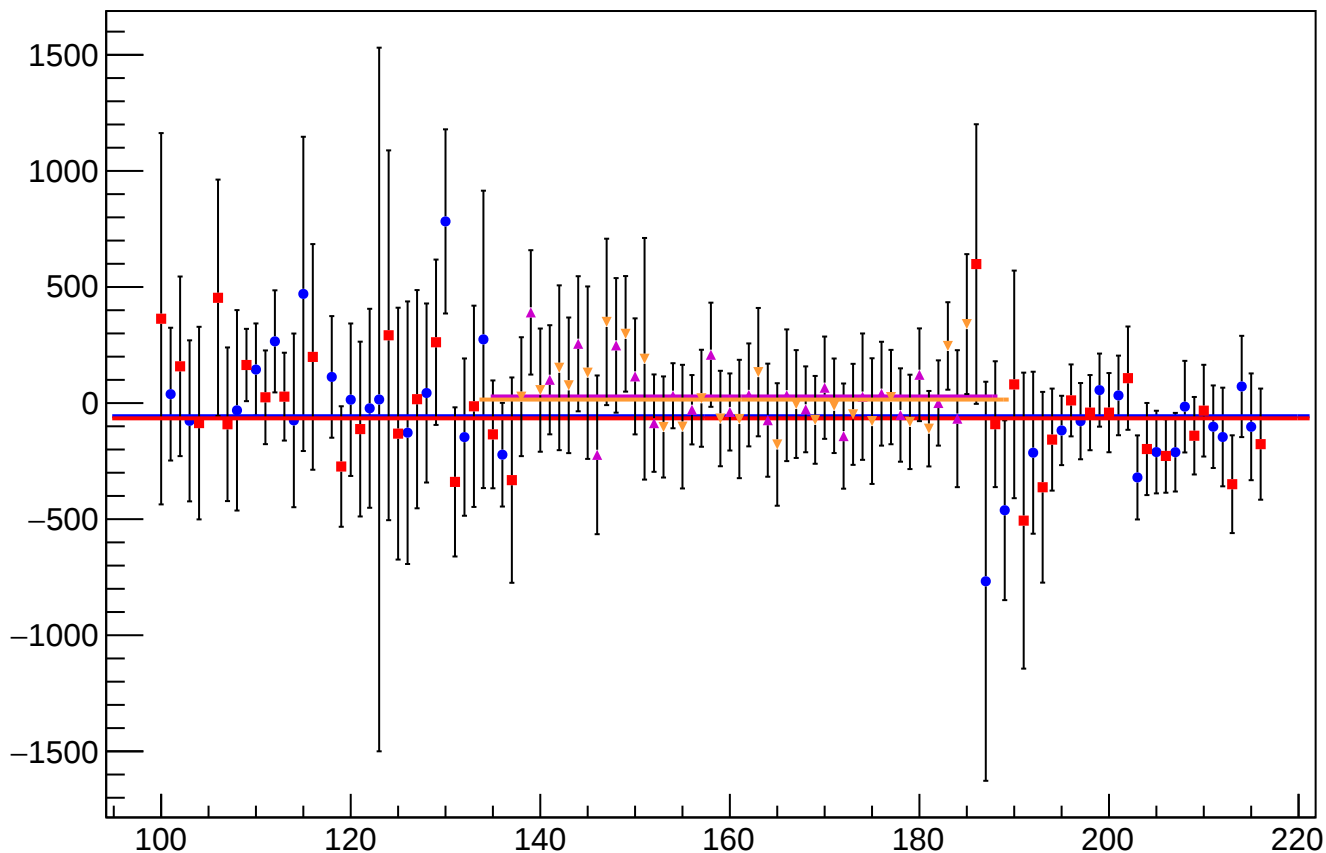
Right: 10.772 ± 0.001 $\chi^2/\text{NDF}: 492654.6/66$

In: 11.027 ± 0.001 $\chi^2/\text{NDF}: 426948.3/54$

Out: 11.145 ± 0.001 $\chi^2/\text{NDF}: 469549.1/59$

All: 11.087 ± 0.001 $\chi^2/\text{NDF}: 900517.0/114$

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: -65.743 ± 42.498 $\chi^2/\text{NDF}: 14.7/34$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

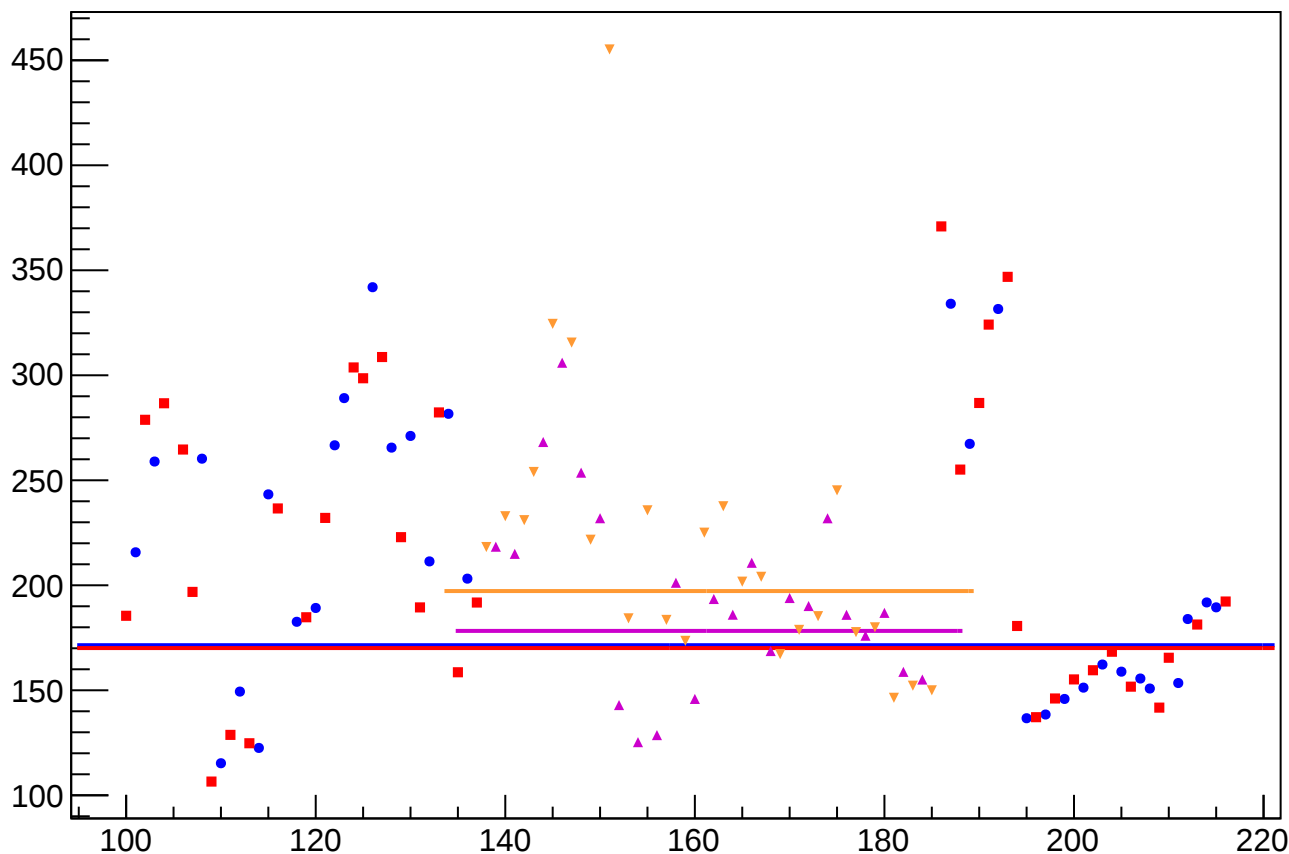
Right: -61.186 ± 30.138 $\chi^2/\text{NDF}: 31.8/66$

In: -16.029 ± 30.925 $\chi^2/\text{NDF}: 25.4/54$

Out: -29.960 ± 31.732 $\chi^2/\text{NDF}: 24.3/59$

All: -22.815 ± 22.147 $\chi^2/\text{NDF}: 49.8/114$

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: 170.102+/-0.030 χ^2/NDF : 2852791.8/34

Left In: 178.277+/-0.032 χ^2/NDF :1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

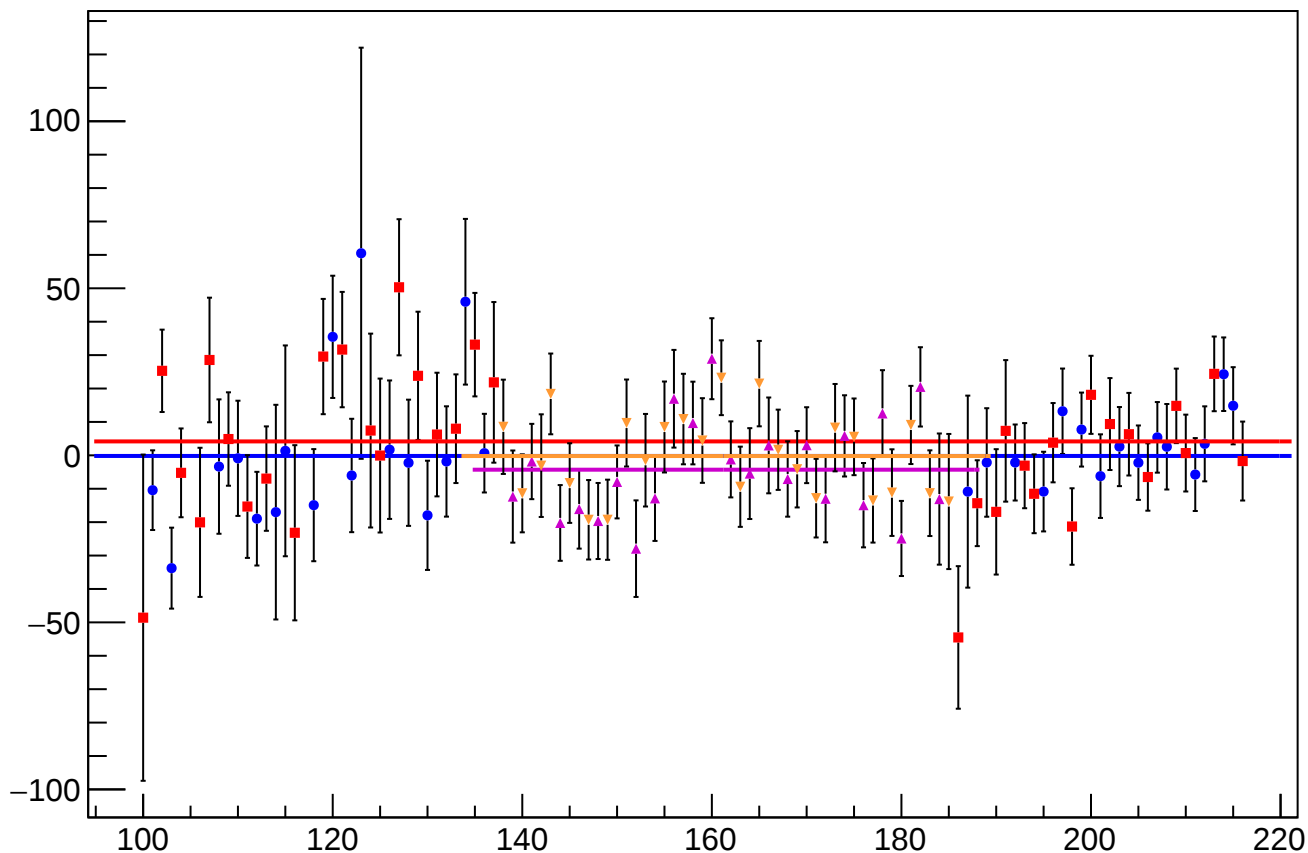
Right: 170.783+/-0.021 χ^2/NDF : 5022162.7/66

In: 174.715+/-0.022 χ^2/NDF :3821406.7/54

Out: 182.114+/-0.022 χ^2/NDF :5000698.7/59

All: 178.319+/-0.016 χ^2/NDF : 8877863.7/114

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: 4.169 ± 2.492 χ^2/NDF : 50.9/34

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

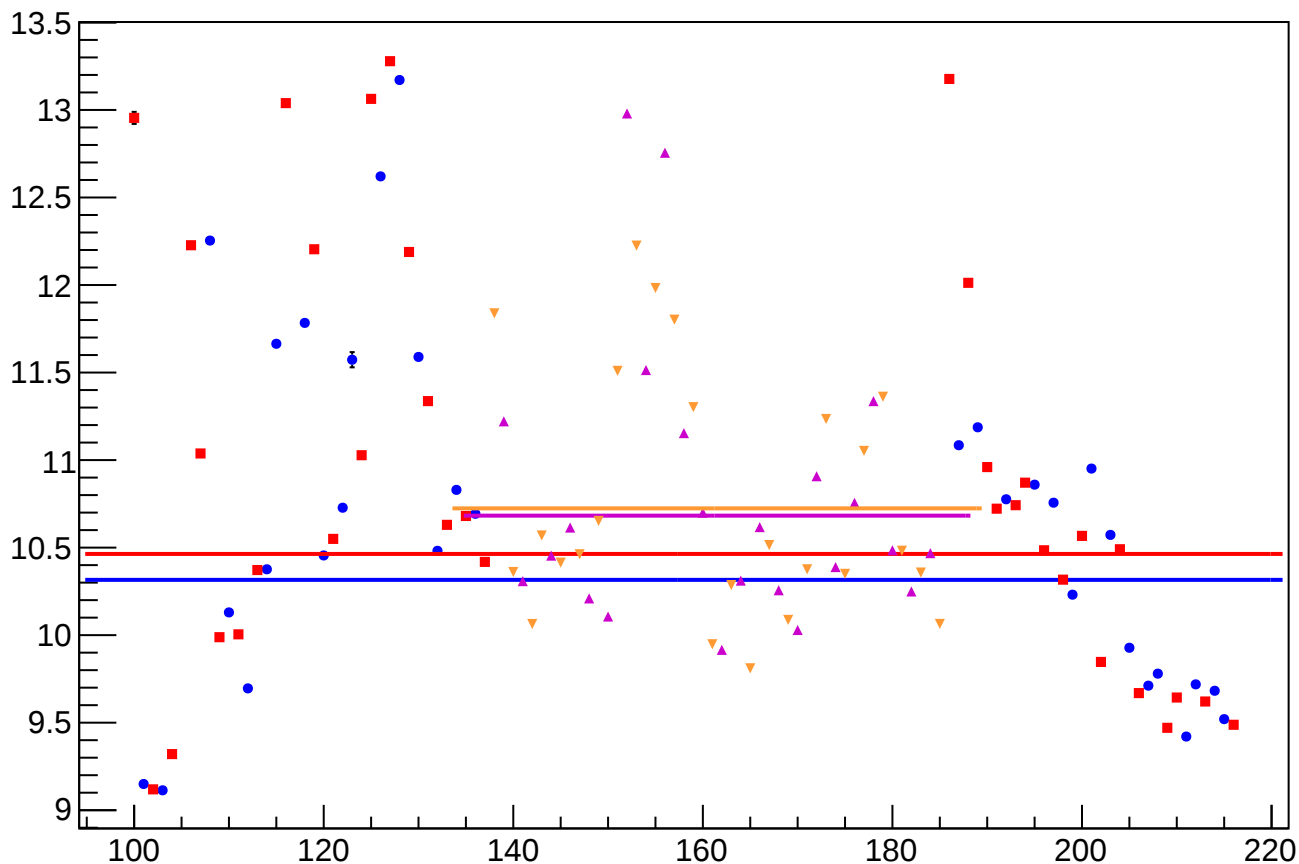
Right: 1.992 ± 1.762 χ^2/NDF : 83.5/66

In: -2.162 ± 1.795 χ^2/NDF : 64.0/54

Out: 2.007 ± 1.773 χ^2/NDF : 77.0/59

All: -0.052 ± 1.261 χ^2/NDF : 143.7/114

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: 10.464 $\pm$ 0.002 χ^2/NDF : 322066.9/34

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

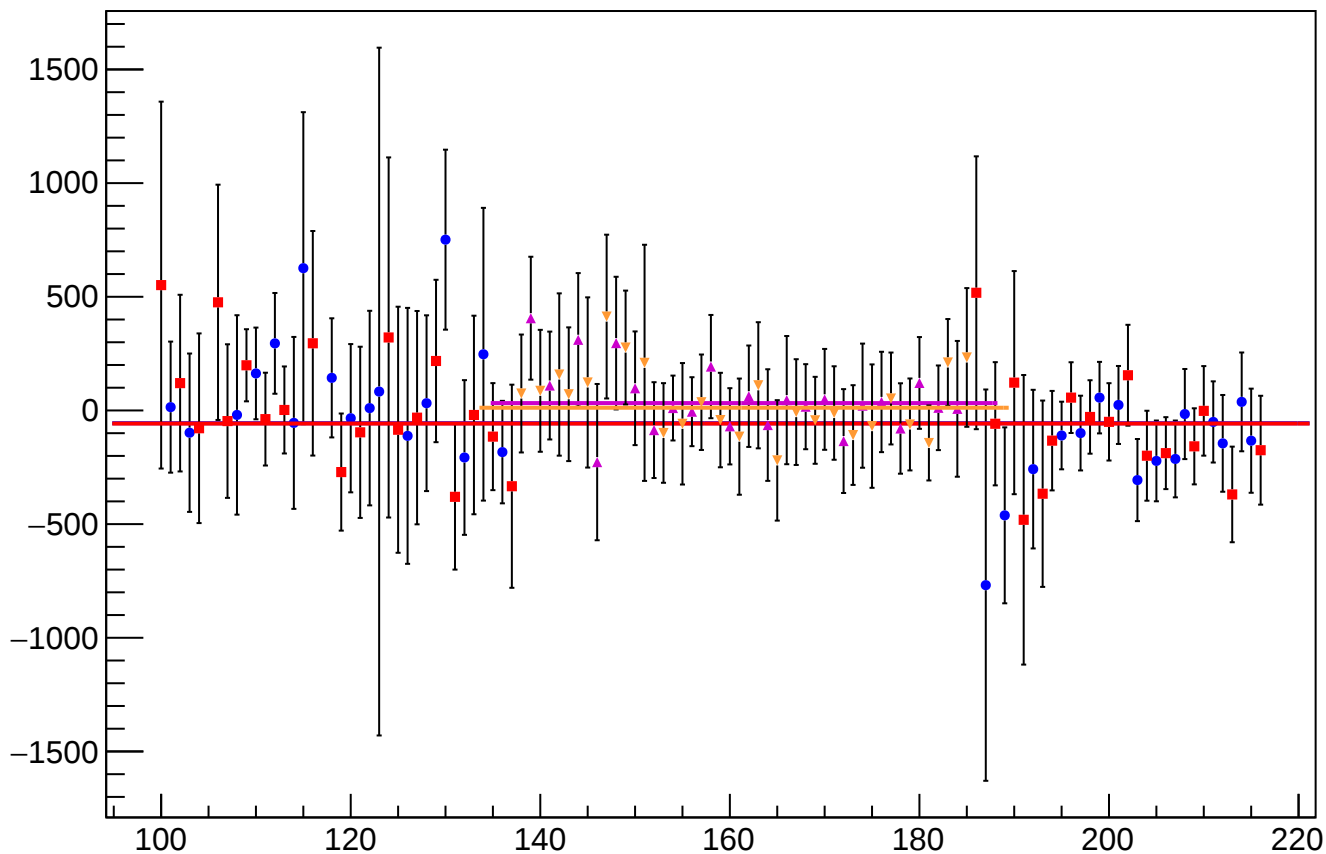
Right: 10.390 $\pm$ 0.001 χ^2/NDF : 564804.0/66

In: 10.492 $\pm$ 0.001 χ^2/NDF : 407886.4/54

Out: 10.592 $\pm$ 0.001 χ^2/NDF : 465402.3/59

All: 10.543 $\pm$ 0.001 χ^2/NDF : 876444.8/114

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.214 ± 42.806 $\chi^2/\text{NDF}: 17.6/31$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -57.683 ± 42.621 $\chi^2/\text{NDF}: 15.8/34$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

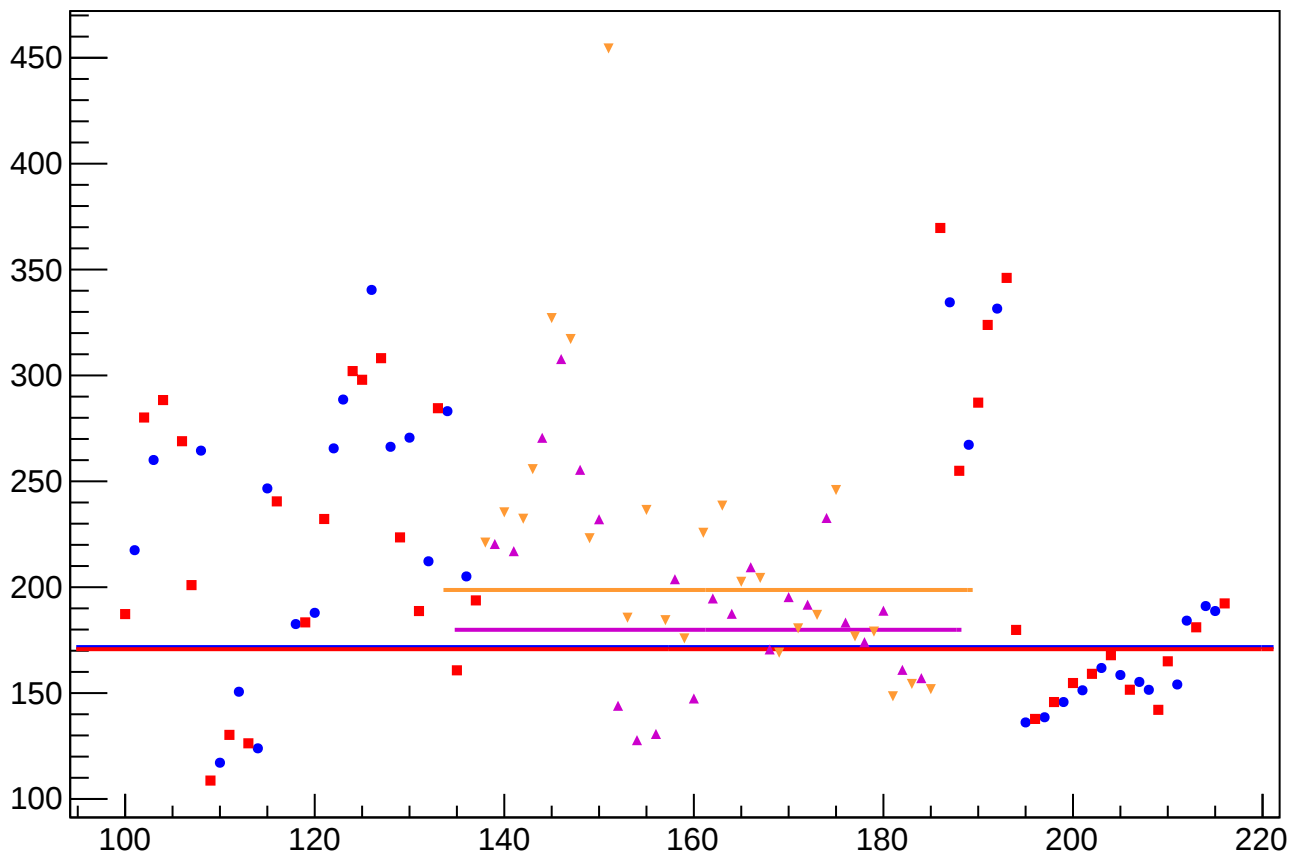
Right: -56.952 ± 30.203 $\chi^2/\text{NDF}: 33.4/66$

In: -14.266 ± 31.065 $\chi^2/\text{NDF}: 26.5/54$

Out: -27.027 ± 31.877 $\chi^2/\text{NDF}: 24.6/59$

All: -20.482 ± 22.248 $\chi^2/\text{NDF}: 51.2/114$

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: 170.731 $\pm$ 0.030 χ^2 /NDF: 2811029.2/34

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

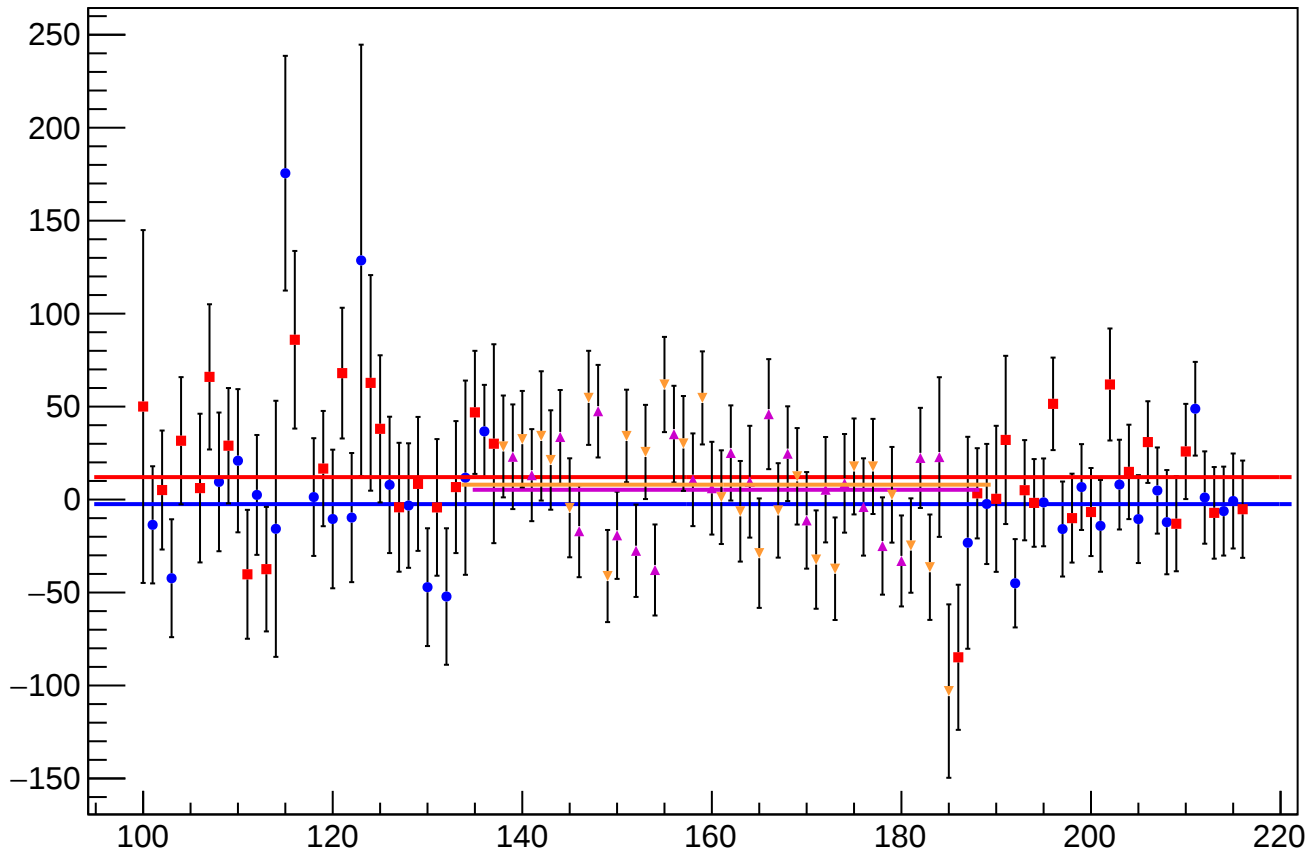
Right: 171.225 $\pm$ 0.021 χ^2 /NDF: 4975038.6/66

In: 175.587 $\pm$ 0.022 χ^2 /NDF:3778533.7/54

Out: 183.052 $\pm$ 0.023 χ^2 /NDF:4949708.4/59

All: 179.223 $\pm$ 0.016 χ^2 /NDF: 8784505.2/114

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: 12.074 ± 5.247 χ^2/NDF : 31.8/34

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

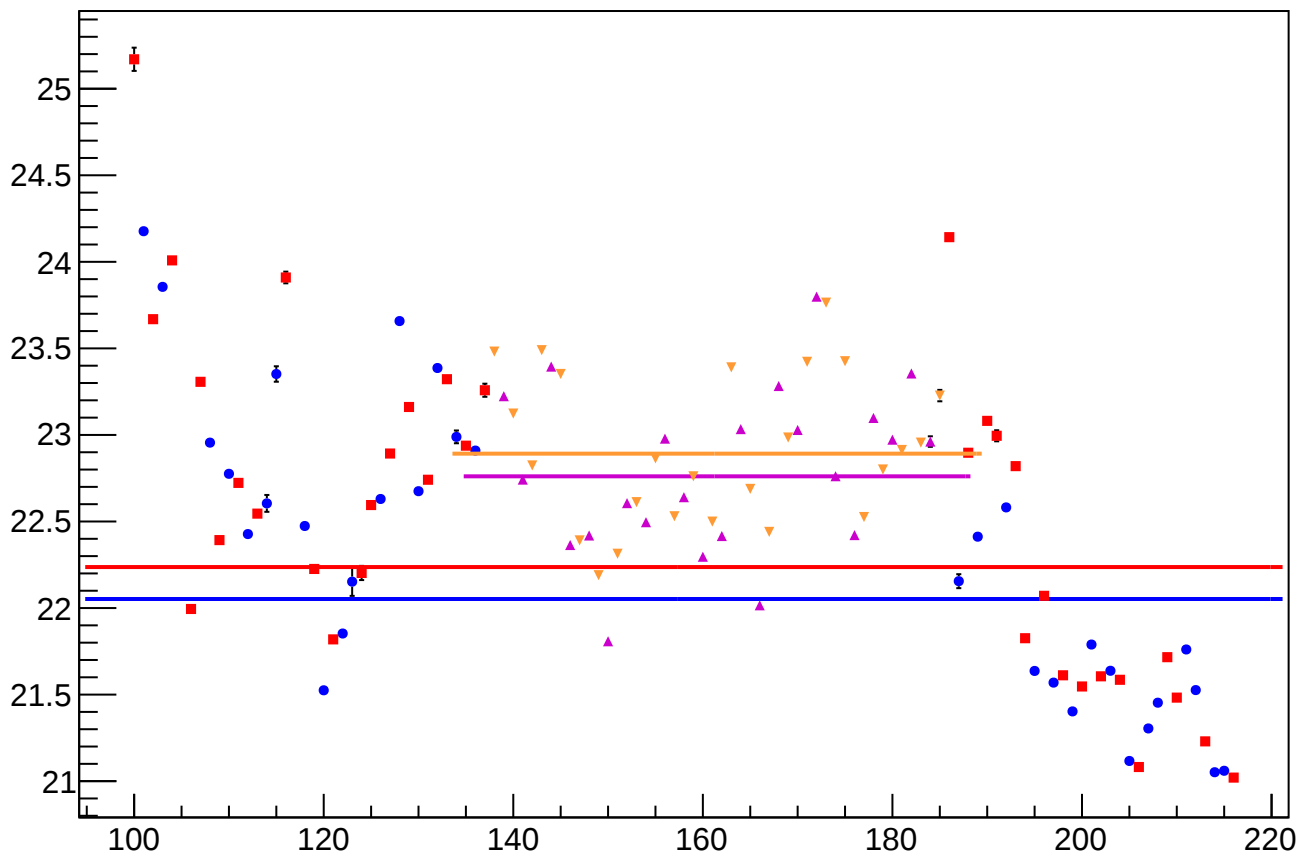
Right: 4.866 ± 3.724 χ^2/NDF : 62.3/66

In: 1.278 ± 3.800 χ^2/NDF : 48.5/54

Out: 10.072 ± 3.741 χ^2/NDF : 69.5/59

All: 5.744 ± 2.666 χ^2/NDF : 120.7/114

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: 22.237 $\pm$ 0.004 χ^2 /NDF: 52660.8/34

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

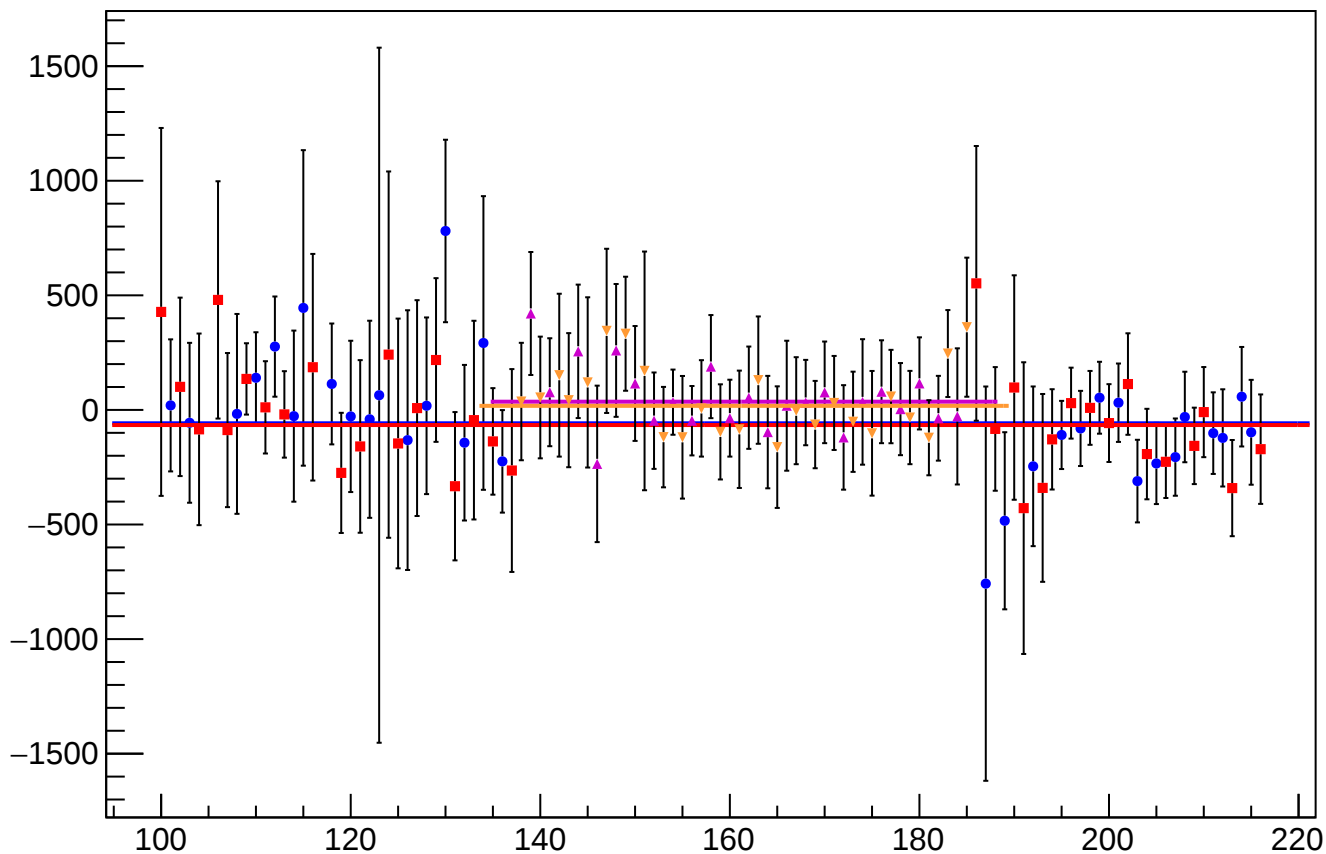
Right: 22.145 $\pm$ 0.003 χ^2 /NDF: 103698.9/66

In: 22.395 $\pm$ 0.003 χ^2 /NDF:81733.5/54

Out: 22.559 $\pm$ 0.003 χ^2 /NDF:80986.9/59

All: 22.478 $\pm$ 0.002 χ^2 /NDF: 164615.2/114

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: -65.959 ± 42.443 $\chi^2/\text{NDF}: 13.3/34$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

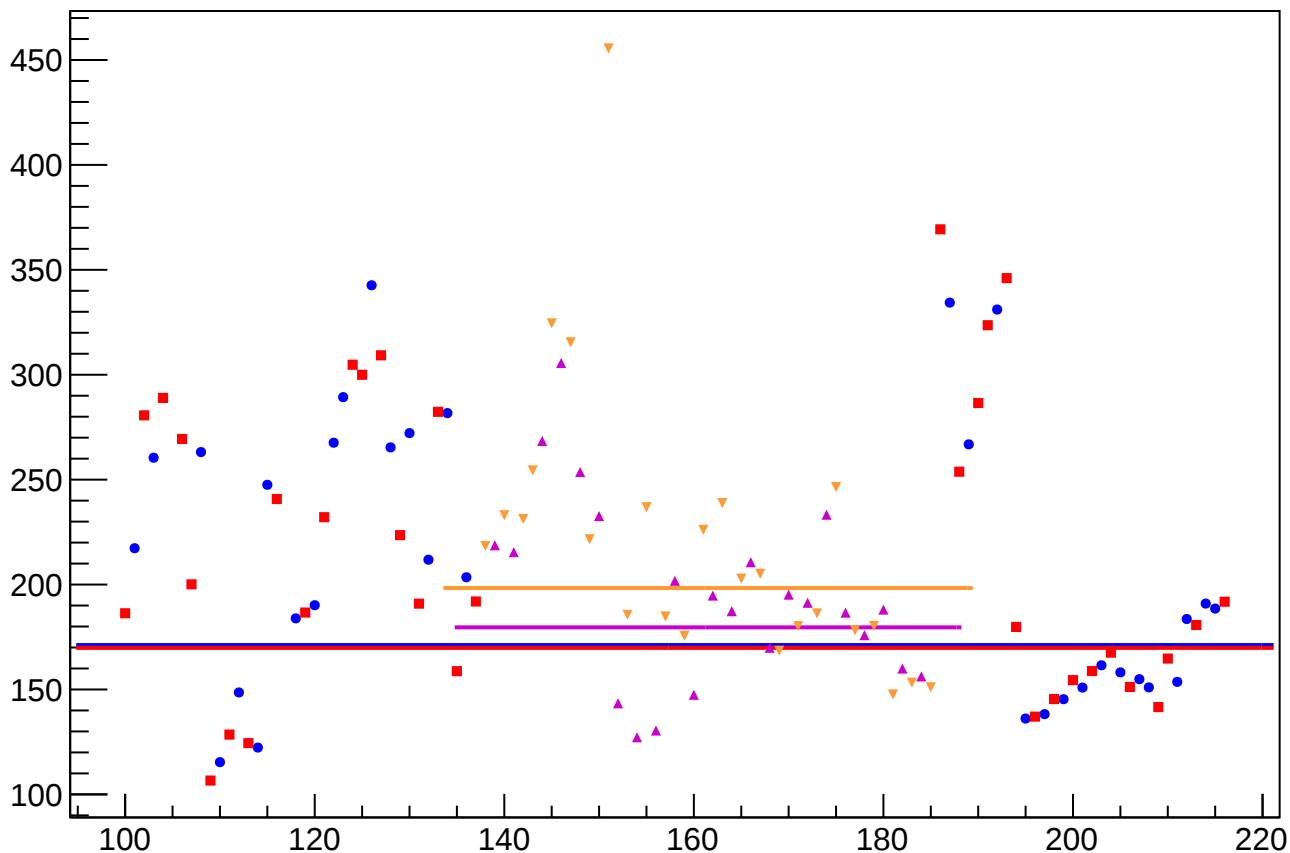
Right: -62.186 ± 30.098 $\chi^2/\text{NDF}: 30.4/66$

In: -13.821 ± 30.998 $\chi^2/\text{NDF}: 25.7/54$

Out: -29.166 ± 31.779 $\chi^2/\text{NDF}: 23.6/59$

All: -21.303 ± 22.190 $\chi^2/\text{NDF}: 49.4/114$

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: 169.831+/-0.030 χ^2/NDF : 2879812.8/34

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

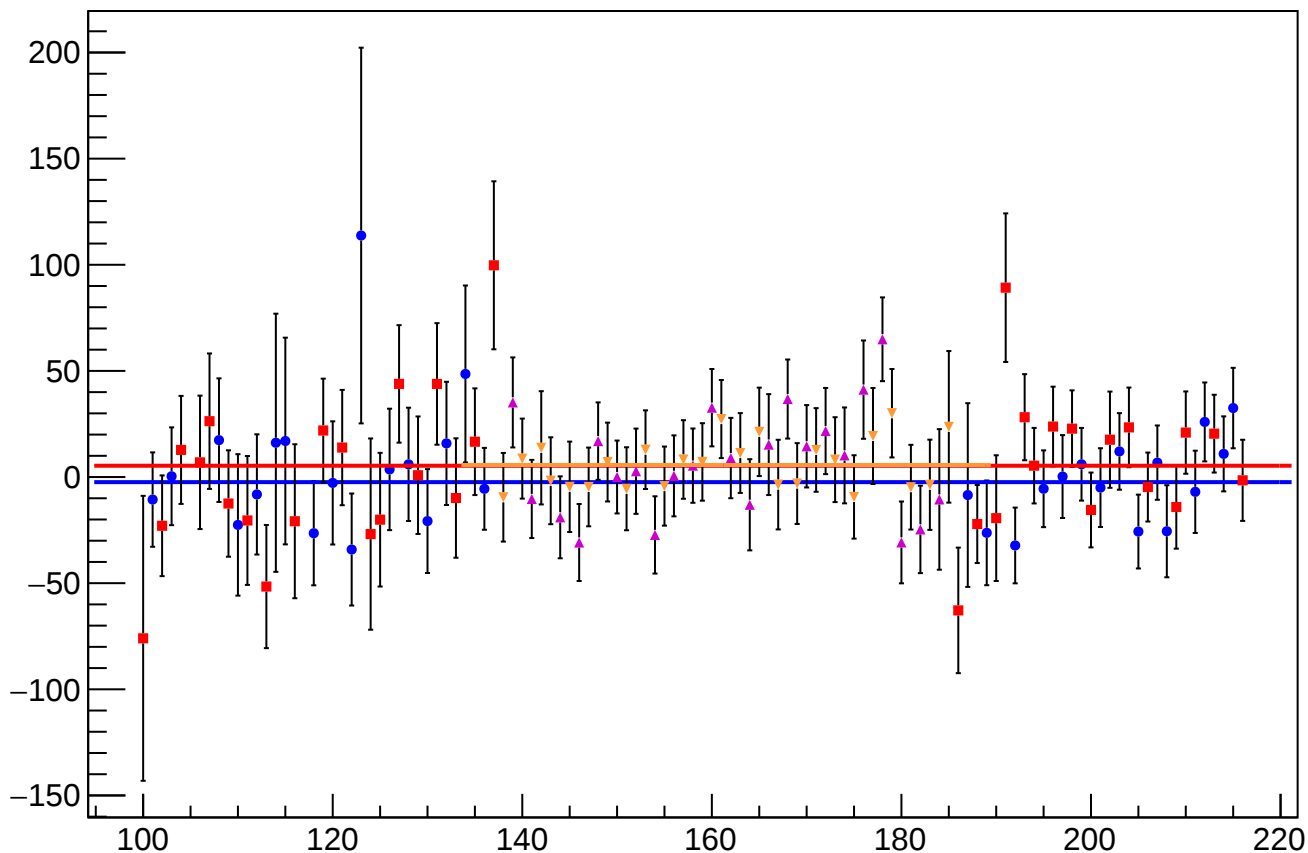
Right: 170.499+/-0.021 χ^2/NDF : 5075494.7/66

In: 175.160+/-0.022 χ^2/NDF : 3807292.4/54

Out: 182.359+/-0.022 χ^2/NDF : 5033861.4/59

All: 178.670+/-0.016 χ^2/NDF : 8893752.2/114

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: 5.329 ± 4.005 $\chi^2/\text{NDF}: 43.3/34$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

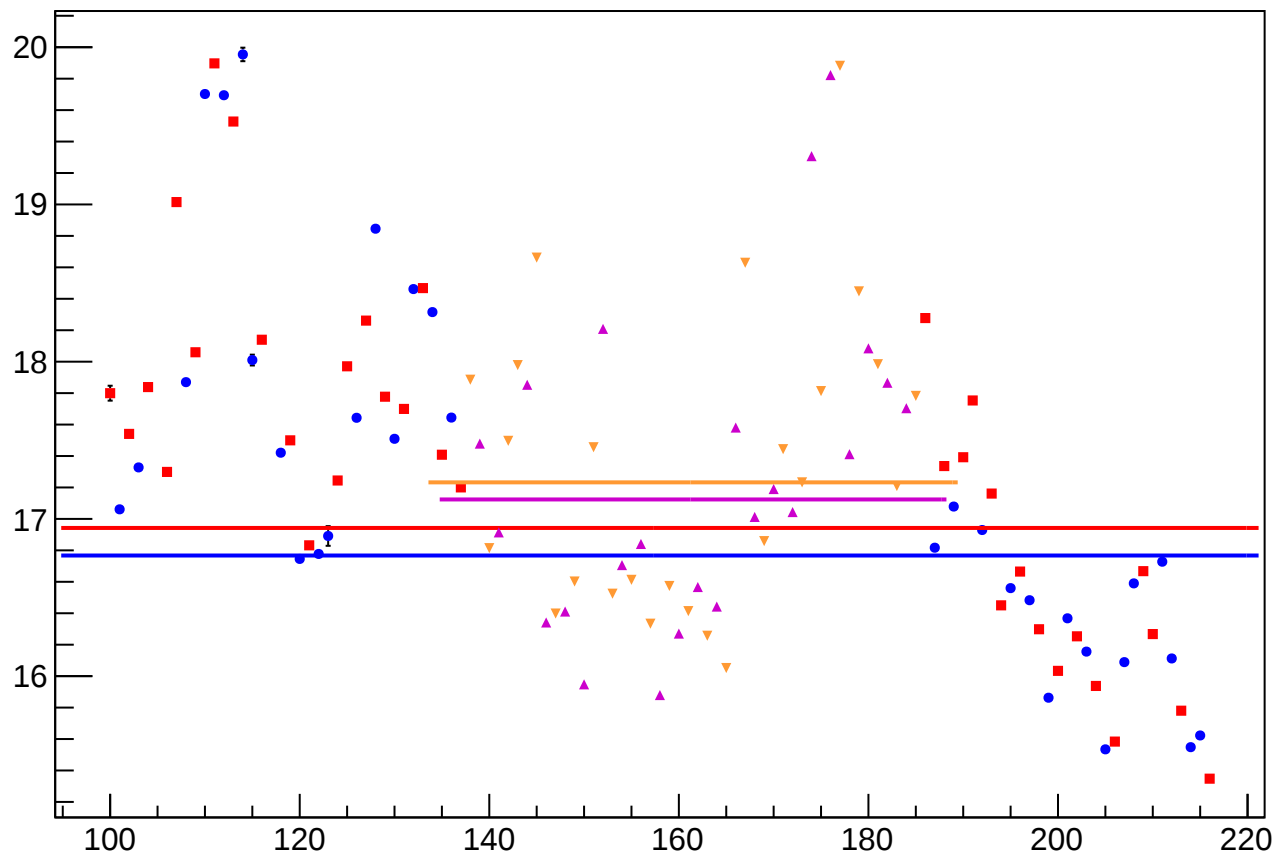
Right: 1.485 ± 2.839 $\chi^2/\text{NDF}: 67.4/66$

In: 1.504 ± 2.880 $\chi^2/\text{NDF}: 60.6/54$

Out: 5.504 ± 2.839 $\chi^2/\text{NDF}: 51.0/59$

All: 3.533 ± 2.022 $\chi^2/\text{NDF}: 112.6/114$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.767 $\pm$ 0.003 χ^2/NDF : 121535.1/31

Left Out: 17.232 $\pm$ 0.003 χ^2/NDF : 98701.0/24

Right Out: 16.943 $\pm$ 0.003 χ^2/NDF : 134418.5/34

Left In: 17.124 $\pm$ 0.003 χ^2/NDF : 100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2/NDF : 200160.6/47

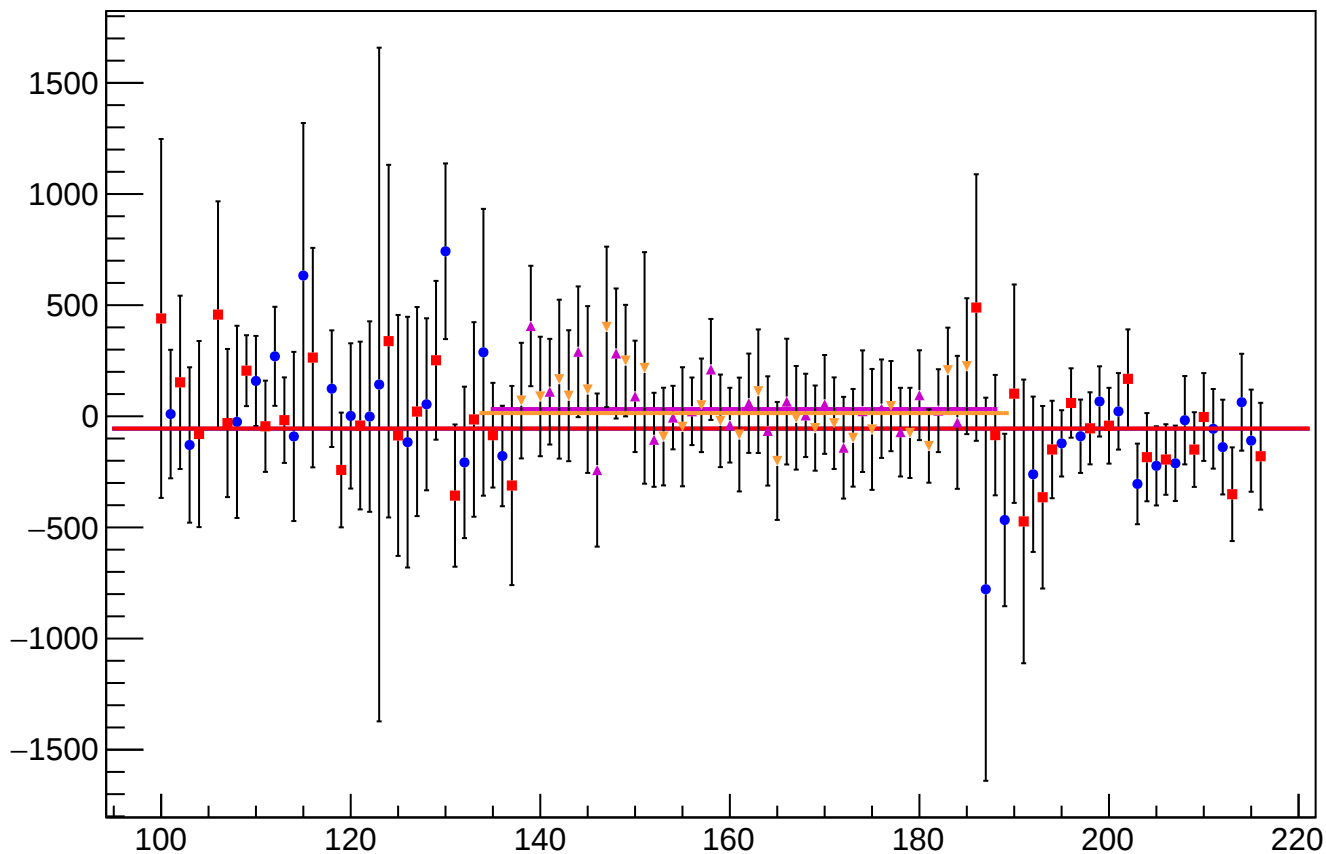
Right: 16.855 $\pm$ 0.002 χ^2/NDF : 257860.1/66

In: 16.941 $\pm$ 0.002 χ^2/NDF : 229942.1/54

Out: 17.087 $\pm$ 0.002 χ^2/NDF : 238335.7/59

All: 17.015 $\pm$ 0.001 χ^2/NDF : 470869.4/114

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: -55.044 ± 42.735 $\chi^2/\text{NDF}: 15.1/34$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

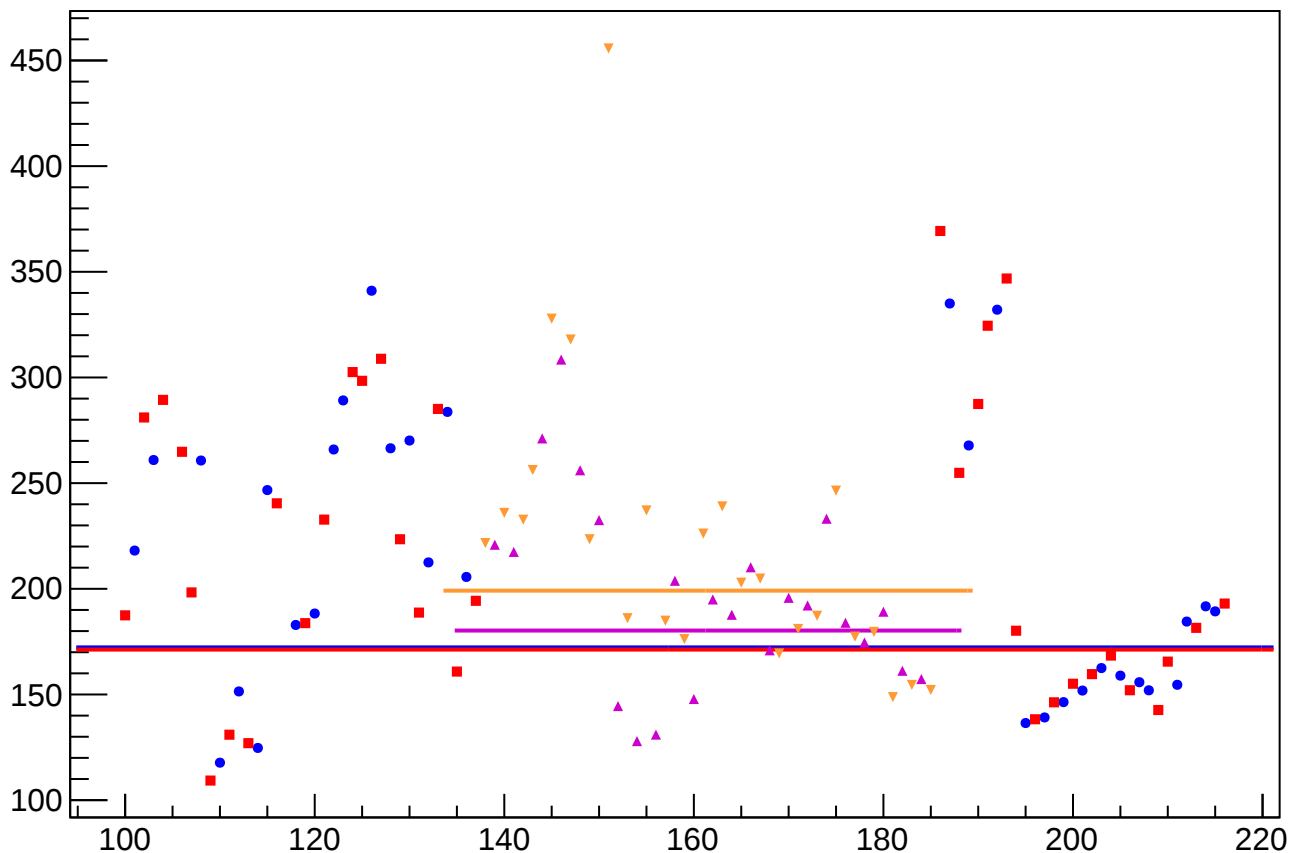
Right: -55.430 ± 30.288 $\chi^2/\text{NDF}: 32.3/66$

In: -13.943 ± 31.144 $\chi^2/\text{NDF}: 25.9/54$

Out: -24.447 ± 31.956 $\chi^2/\text{NDF}: 23.2/59$

All: -19.060 ± 22.304 $\chi^2/\text{NDF}: 49.2/114$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.282 ± 0.030 $\chi^2/\text{NDF}: 2145136.9/31$

Left Out: 199.136 ± 0.034 $\chi^2/\text{NDF}: 1760298.1/24$

Right Out: 171.248 ± 0.030 $\chi^2/\text{NDF}: 2786479.5/34$

Left In: 180.256 ± 0.032 $\chi^2/\text{NDF}: 1580553.5/22$

Left: 189.114 ± 0.023 $\chi^2/\text{NDF}: 3504211.1/47$

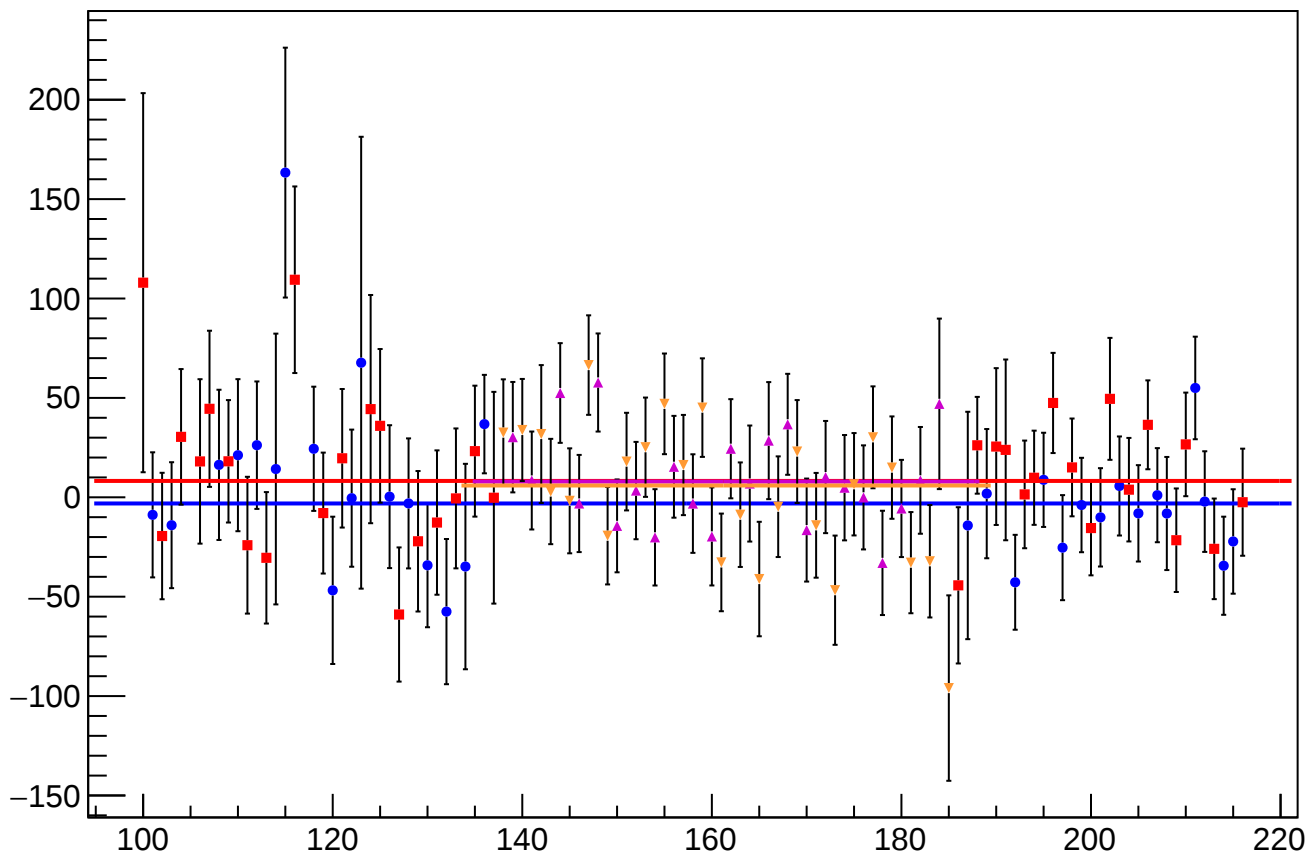
Right: 171.763 ± 0.021 $\chi^2/\text{NDF}: 4932199.2/66$

In: 176.060 ± 0.022 $\chi^2/\text{NDF}: 3758380.0/54$

Out: 183.542 ± 0.023 $\chi^2/\text{NDF}: 4922248.2/59$

All: 179.705 ± 0.016 $\chi^2/\text{NDF}: 8736856.0/114$

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: 8.232 ± 5.279 χ^2/NDF : 30.2/34

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

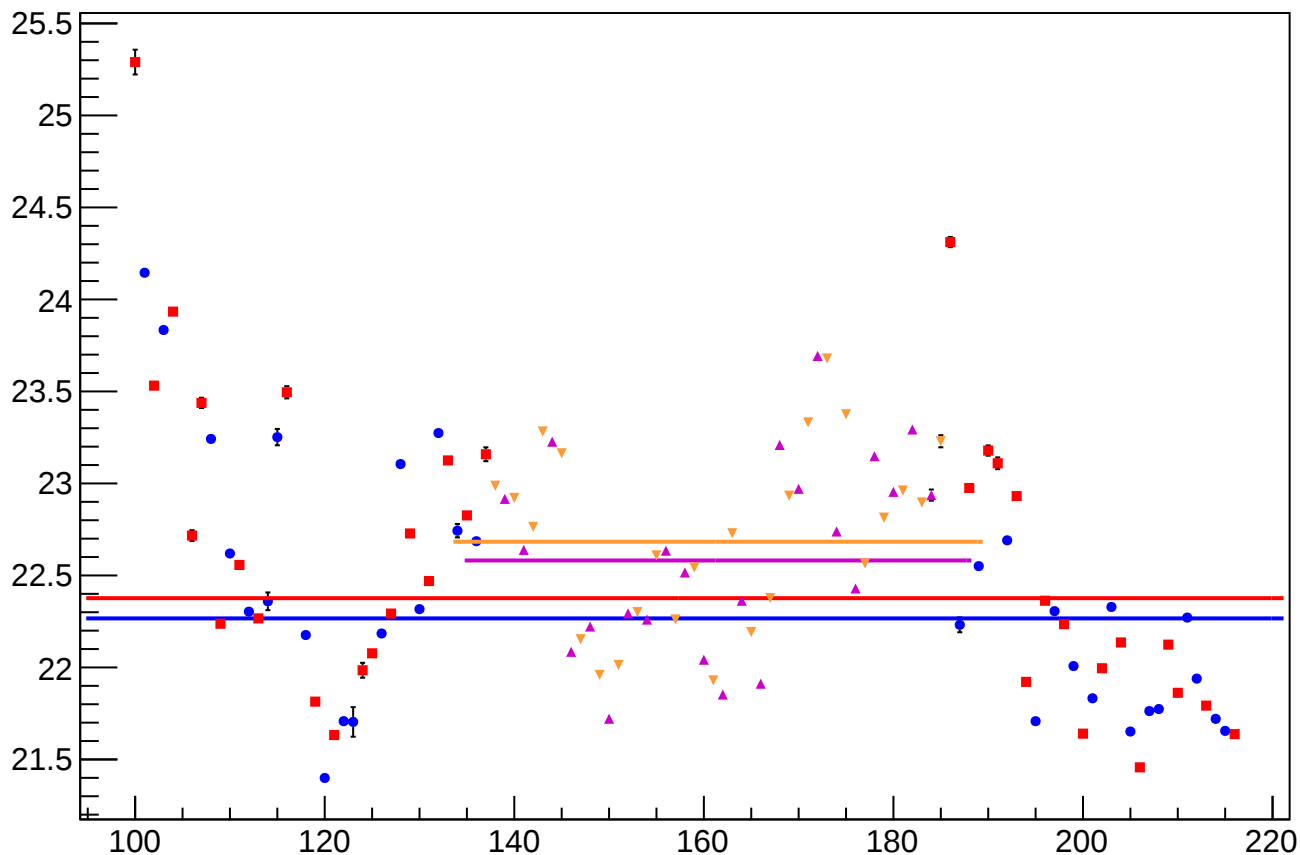
Right: 2.625 ± 3.753 χ^2/NDF : 61.3/66

In: 2.318 ± 3.803 χ^2/NDF : 49.6/54

Out: 7.086 ± 3.735 χ^2/NDF : 66.5/59

All: 4.745 ± 2.665 χ^2/NDF : 116.9/114

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.267 $\pm$ 0.004 χ^2 /NDF: 27265.4/31

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16320.2/24

Right Out: 22.376 $\pm$ 0.004 χ^2 /NDF: 33630.4/34

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF: 17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

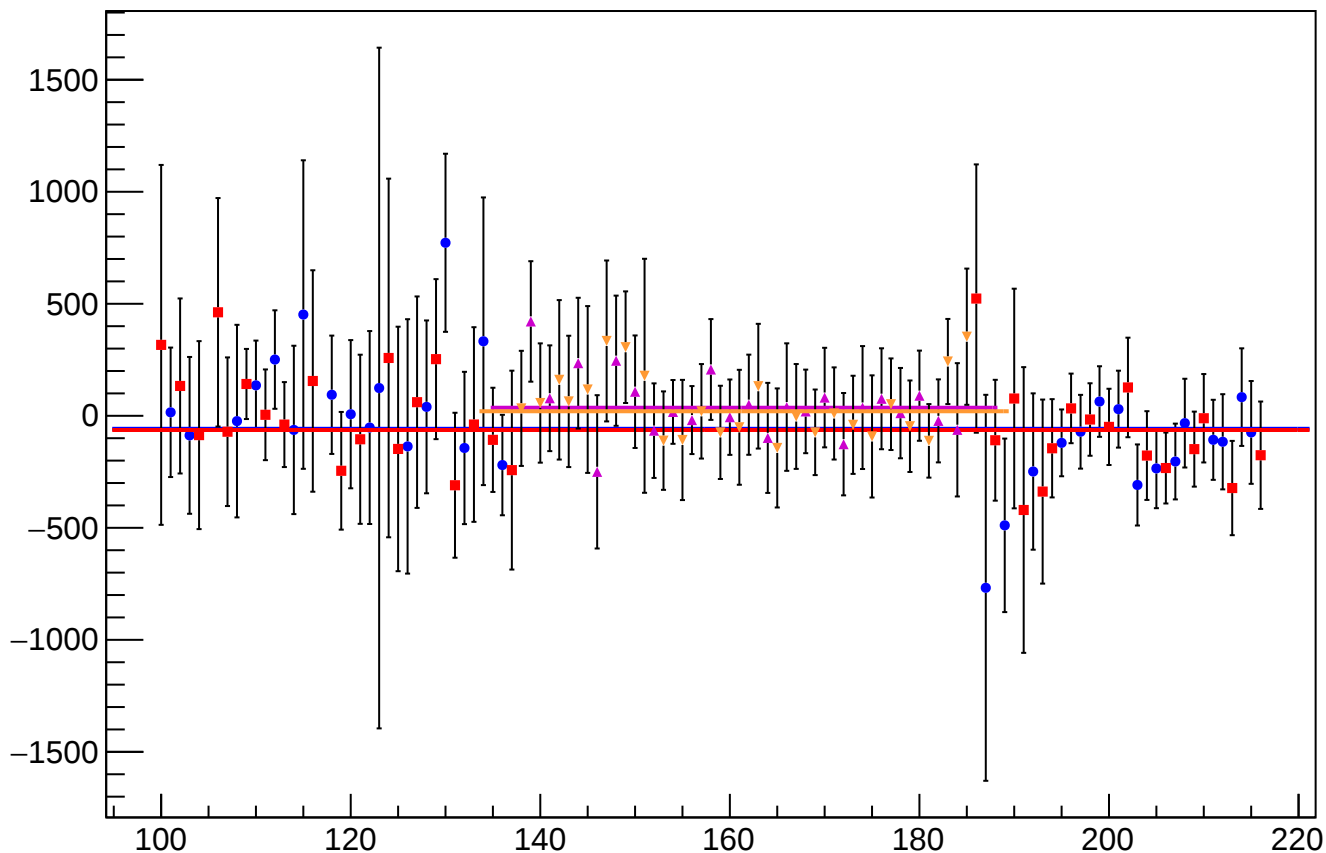
Right: 22.322 $\pm$ 0.003 χ^2 /NDF: 61324.7/66

In: 22.421 $\pm$ 0.003 χ^2 /NDF: 48594.7/54

Out: 22.530 $\pm$ 0.003 χ^2 /NDF: 53323.1/59

All: 22.477 $\pm$ 0.002 χ^2 /NDF: 102742.1/114

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: -63.371 ± 42.558 $\chi^2/\text{NDF}: 12.6/34$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

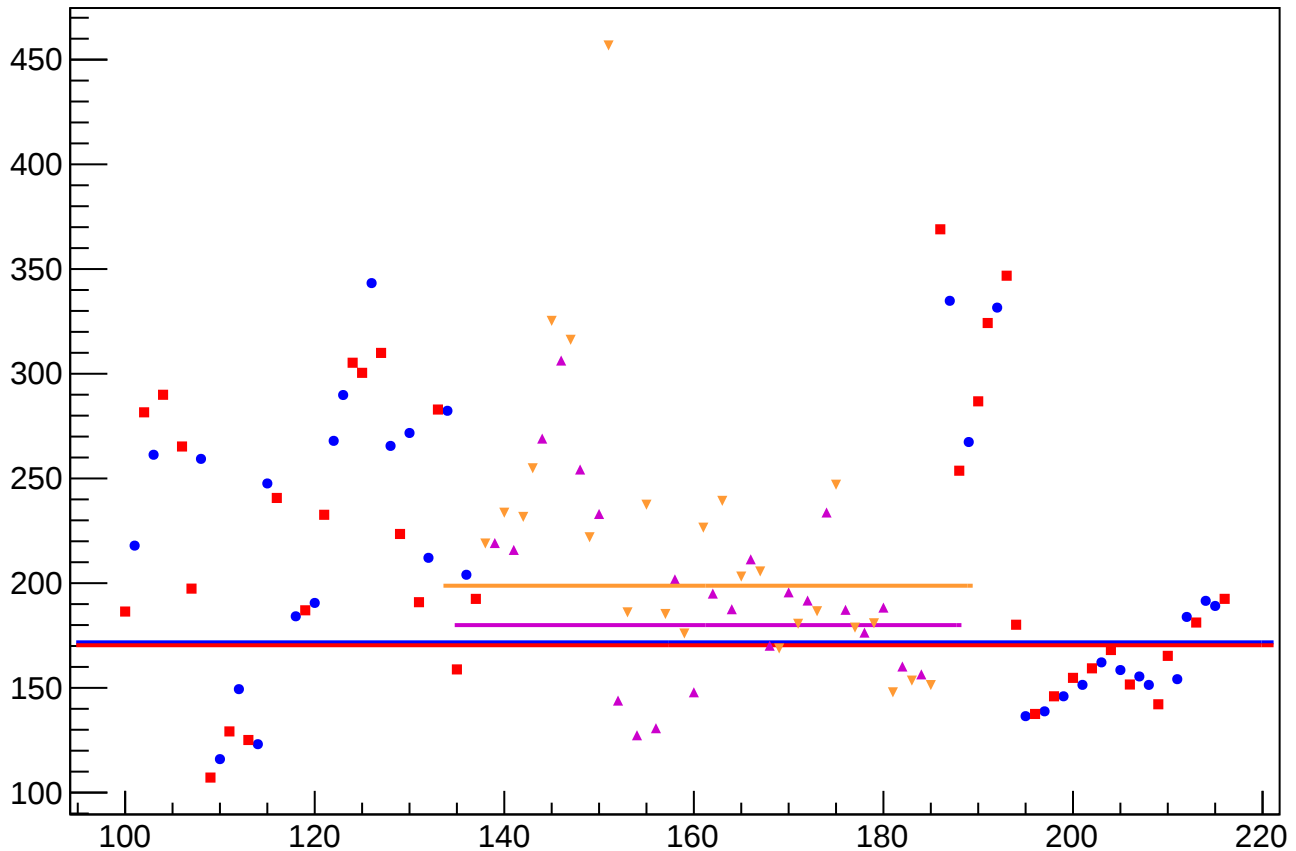
Right: -60.727 ± 30.184 $\chi^2/\text{NDF}: 29.5/66$

In: -13.553 ± 31.077 $\chi^2/\text{NDF}: 25.2/54$

Out: -26.585 ± 31.858 $\chi^2/\text{NDF}: 22.0/59$

All: -19.907 ± 22.246 $\chi^2/\text{NDF}: 47.3/114$

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: 170.354 $\pm$ 0.030 χ^2 /NDF: 2854352.2/34

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

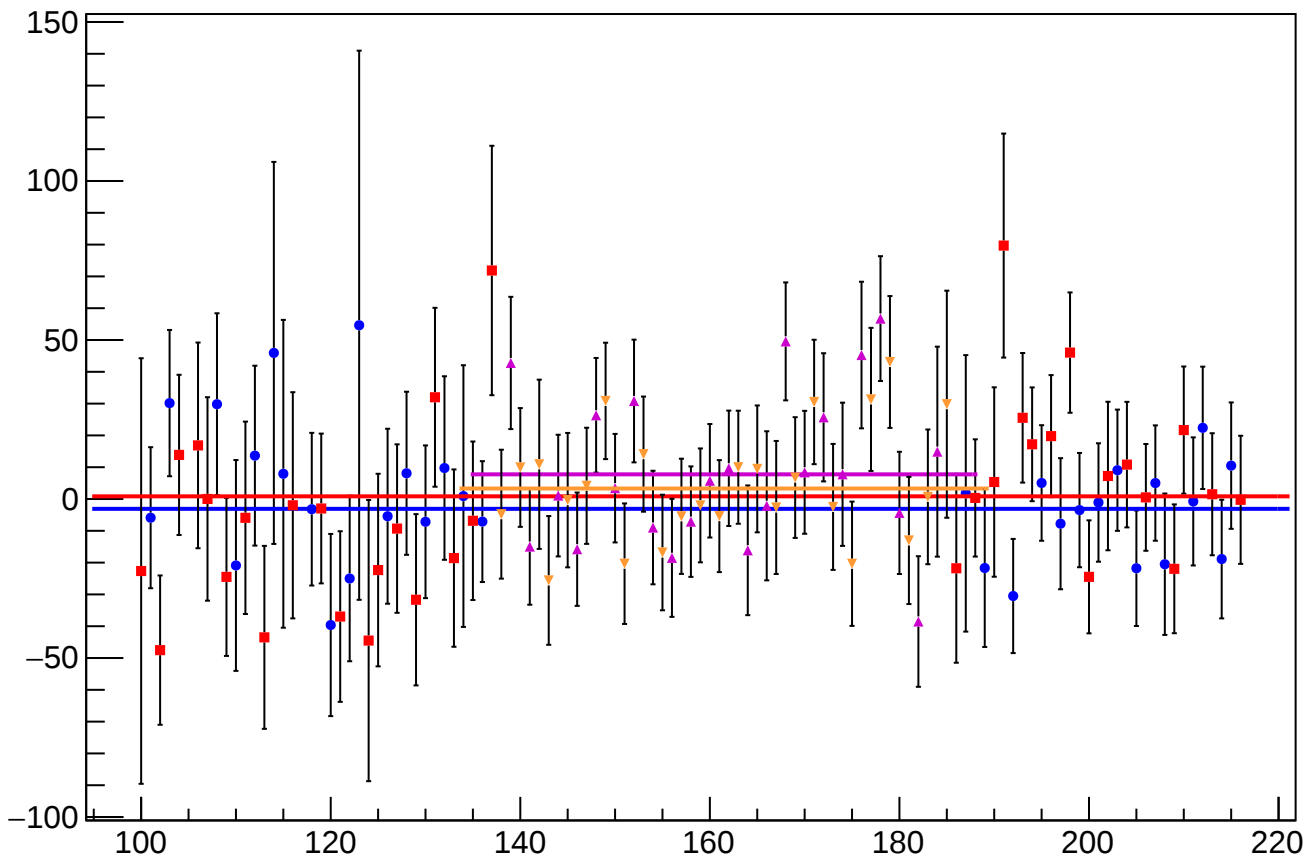
Right: 171.043 $\pm$ 0.021 χ^2 /NDF: 5031160.0/66

In: 175.635 $\pm$ 0.022 χ^2 /NDF:3786636.0/54

Out: 182.853 $\pm$ 0.023 χ^2 /NDF:5005208.4/59

All: 179.154 $\pm$ 0.016 χ^2 /NDF: 8844450.9/114

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: 0.847 ± 4.050 χ^2/NDF : 38.0/34

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

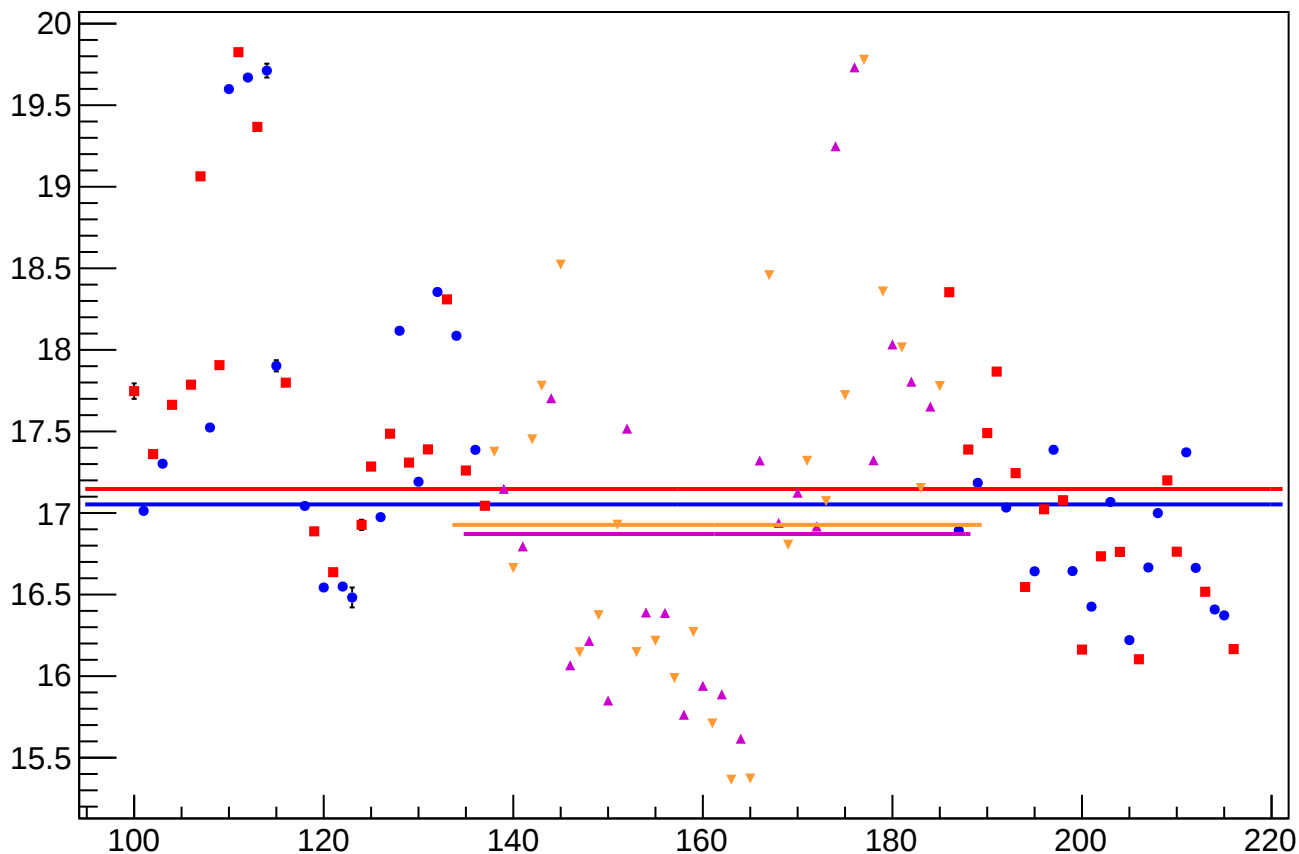
Right: -1.101 ± 2.878 χ^2/NDF : 54.9/66

In: 2.374 ± 2.882 χ^2/NDF : 54.2/54

Out: 2.107 ± 2.829 χ^2/NDF : 56.9/59

All: 2.238 ± 2.019 χ^2/NDF : 111.2/114

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.053 $\pm$ 0.003 χ^2 /NDF: 61294.0/31

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.147 $\pm$ 0.003 χ^2 /NDF: 74462.2/34

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

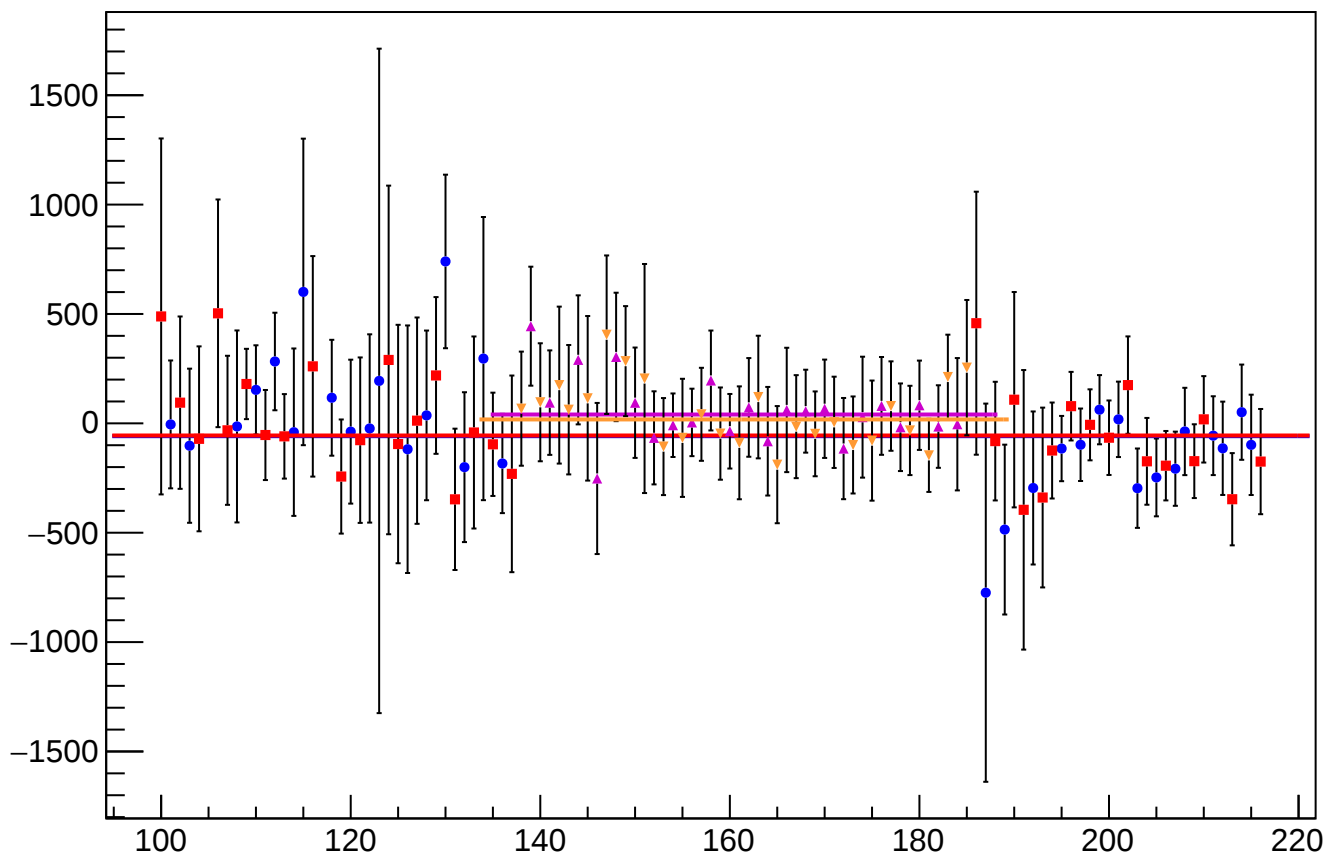
Right: 17.100 $\pm$ 0.002 χ^2 /NDF: 136294.9/66

In: 16.961 $\pm$ 0.002 χ^2 /NDF:181269.8/54

Out: 17.035 $\pm$ 0.002 χ^2 /NDF:216015.1/59

All: 16.999 $\pm$ 0.001 χ^2 /NDF: 397943.0/114

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: -55.552 ± 42.867 $\chi^2/\text{NDF}: 14.1/34$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

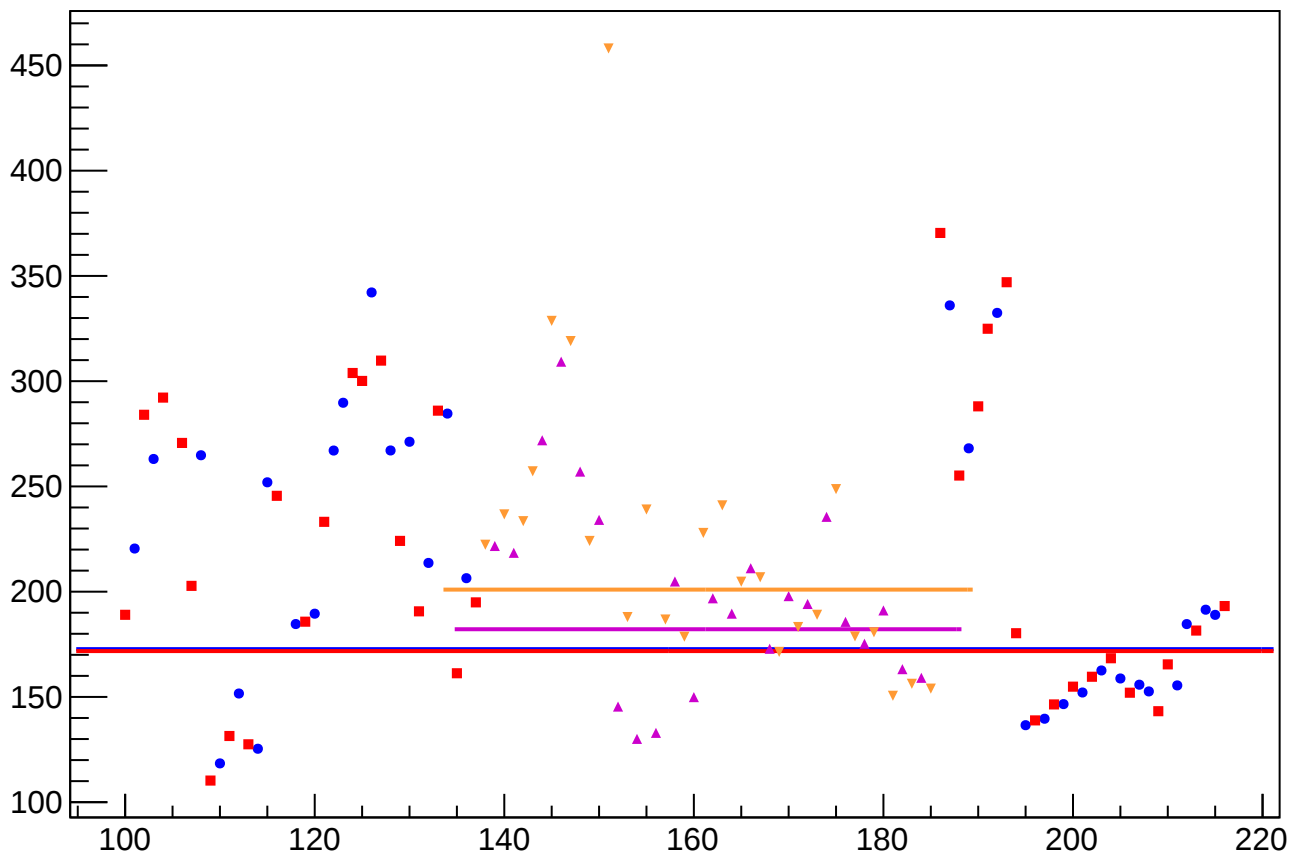
Right: -57.107 ± 30.374 $\chi^2/\text{NDF}: 31.2/66$

In: -12.108 ± 31.330 $\chi^2/\text{NDF}: 26.2/54$

Out: -23.404 ± 32.133 $\chi^2/\text{NDF}: 22.8/59$

All: -17.613 ± 22.432 $\chi^2/\text{NDF}: 49.1/114$

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: 171.781 $\pm$ 0.030 χ^2 /NDF: 2796100.4/34

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

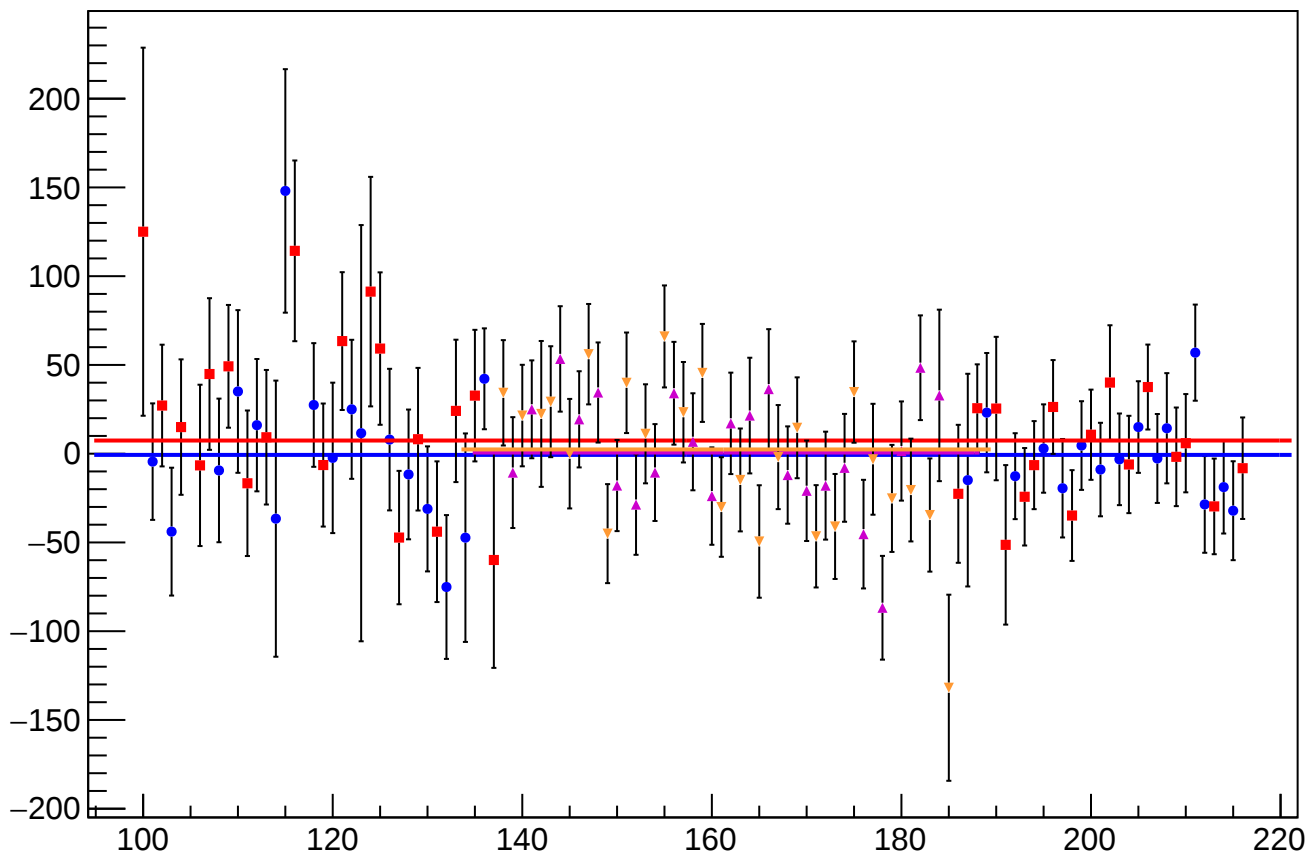
Right: 172.243 $\pm$ 0.021 χ^2 /NDF: 4953738.8/66

In: 177.152 $\pm$ 0.022 χ^2 /NDF:3738425.2/54

Out: 184.576 $\pm$ 0.023 χ^2 /NDF:4930055.9/59

All: 180.770 $\pm$ 0.016 χ^2 /NDF: 8723210.4/114

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: 7.414 ± 5.666 χ^2/NDF : 32.9/34

Left In: 0.641 ± 6.091 χ^2/NDF : 27.3/22

Left: 1.531 ± 4.267 χ^2/NDF : 66.5/47

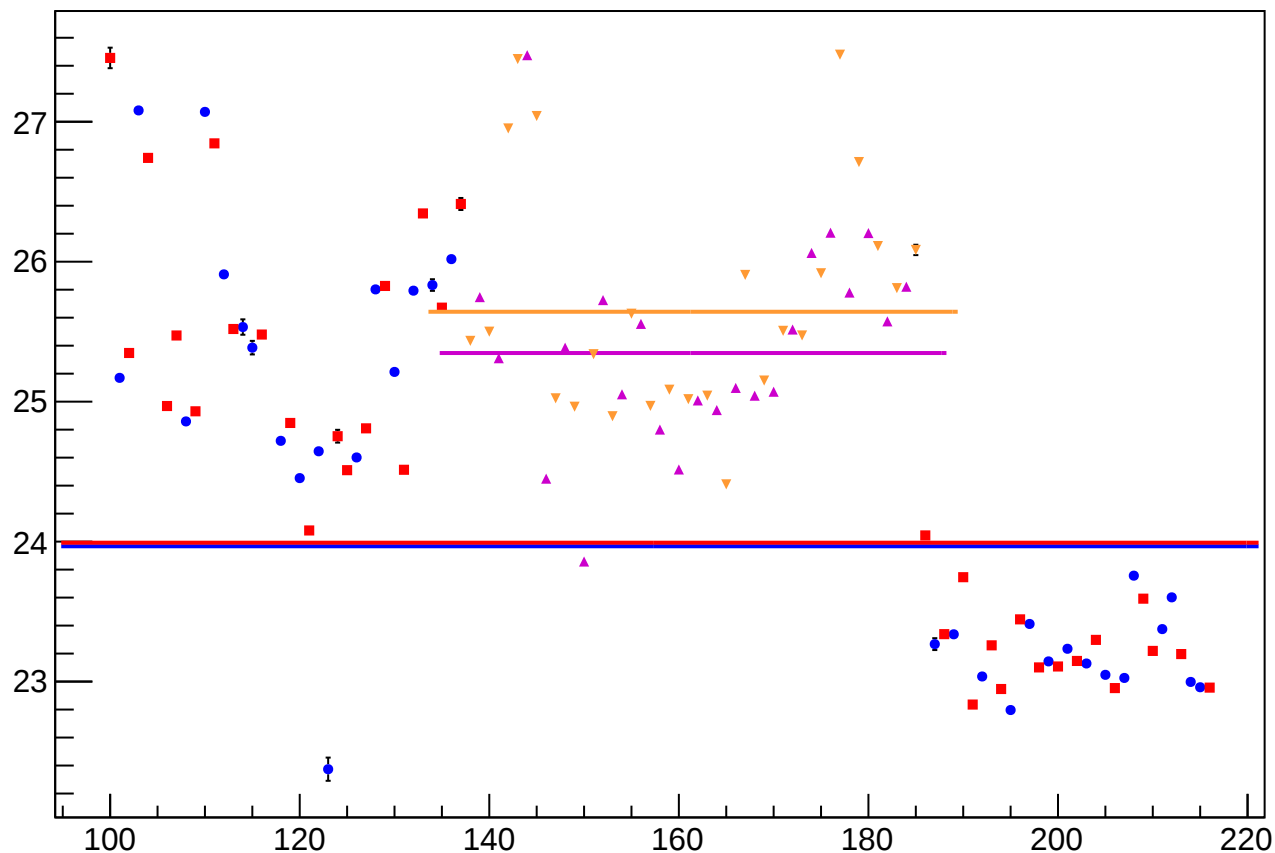
Right: 3.425 ± 4.036 χ^2/NDF : 58.8/66

In: -0.059 ± 4.182 χ^2/NDF : 52.2/54

Out: 5.037 ± 4.113 χ^2/NDF : 72.4/59

All: 2.531 ± 2.932 χ^2/NDF : 125.3/114

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: 23.992 $\pm$ 0.004 χ^2 /NDF: 82865.7/34

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

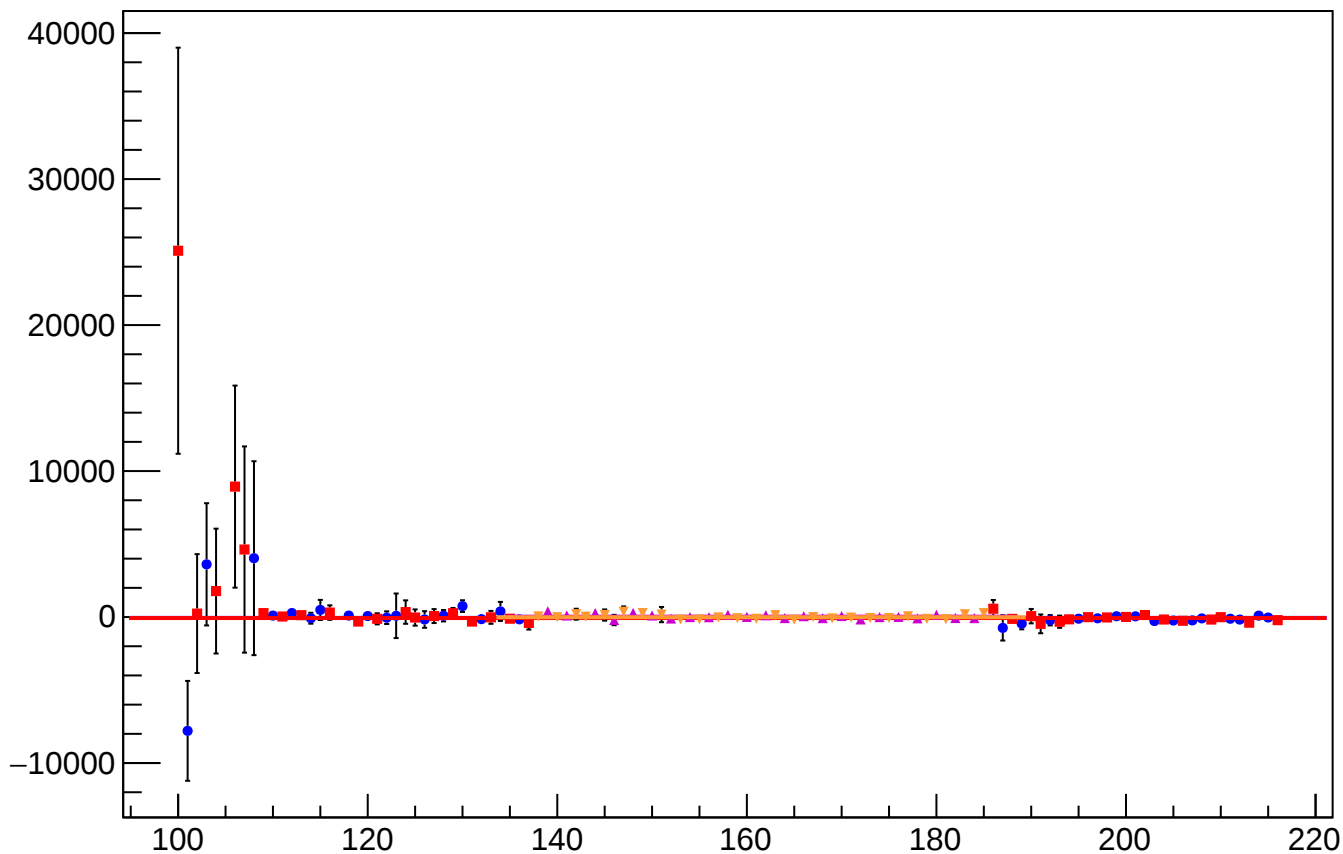
Right: 23.980 $\pm$ 0.003 χ^2 /NDF: 171596.9/66

In: 24.617 $\pm$ 0.003 χ^2 /NDF:172433.8/54

Out: 24.773 $\pm$ 0.003 χ^2 /NDF:197906.3/59

All: 24.696 $\pm$ 0.002 χ^2 /NDF: 371744.7/114

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.860+/-44.922 χ^2/NDF : 22.3/31

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: -67.447+/-45.388 χ^2/NDF : 21.0/34

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

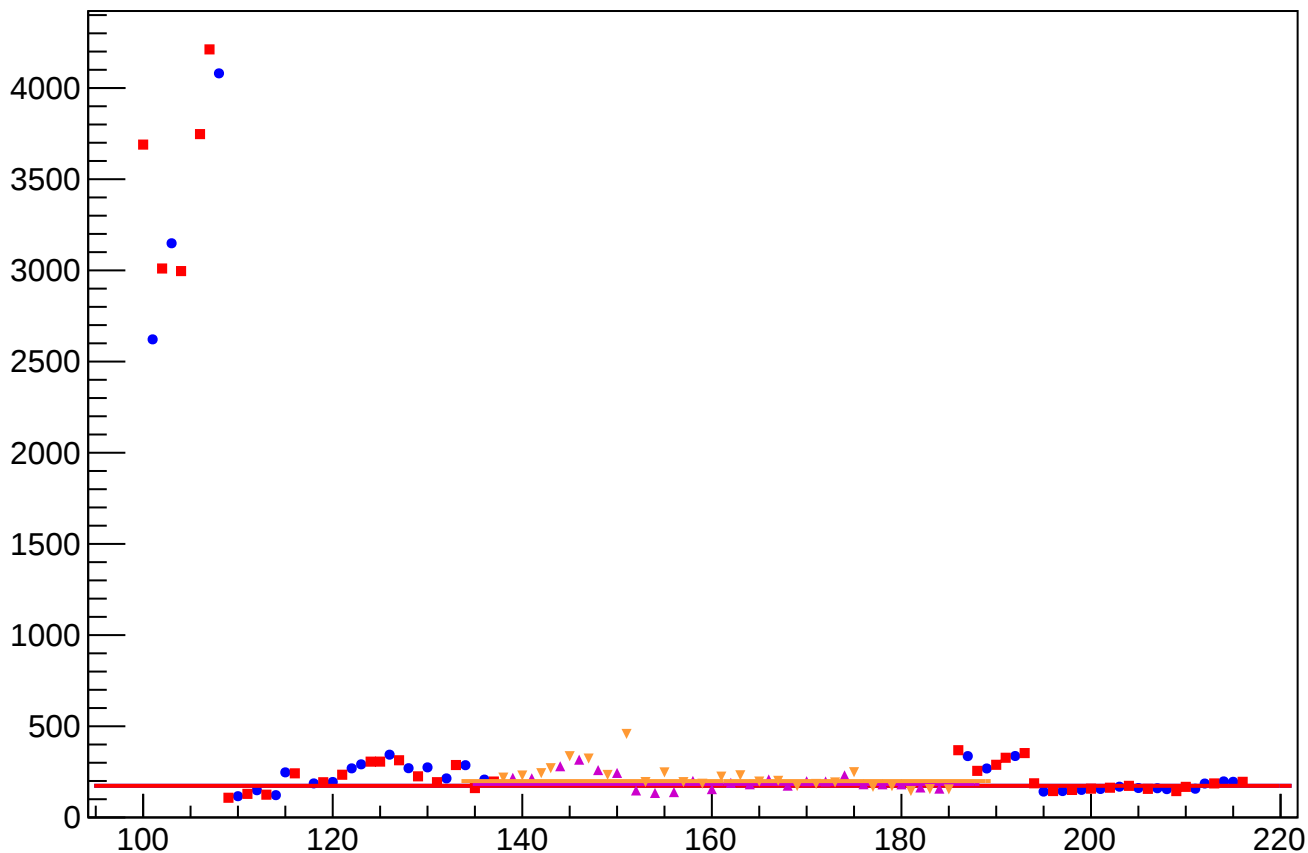
Right: -62.604+/-31.928 χ^2/NDF : 43.3/66

In: -16.386+/-32.139 χ^2/NDF : 31.2/54

Out: -41.157+/-33.064 χ^2/NDF : 29.7/59

All: -28.420+/-23.046 χ^2/NDF : 61.2/114

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: 173.508+/-0.032 χ^2/NDF : 5418993.3/34

Left In: 183.805+/-0.033 χ^2/NDF :1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

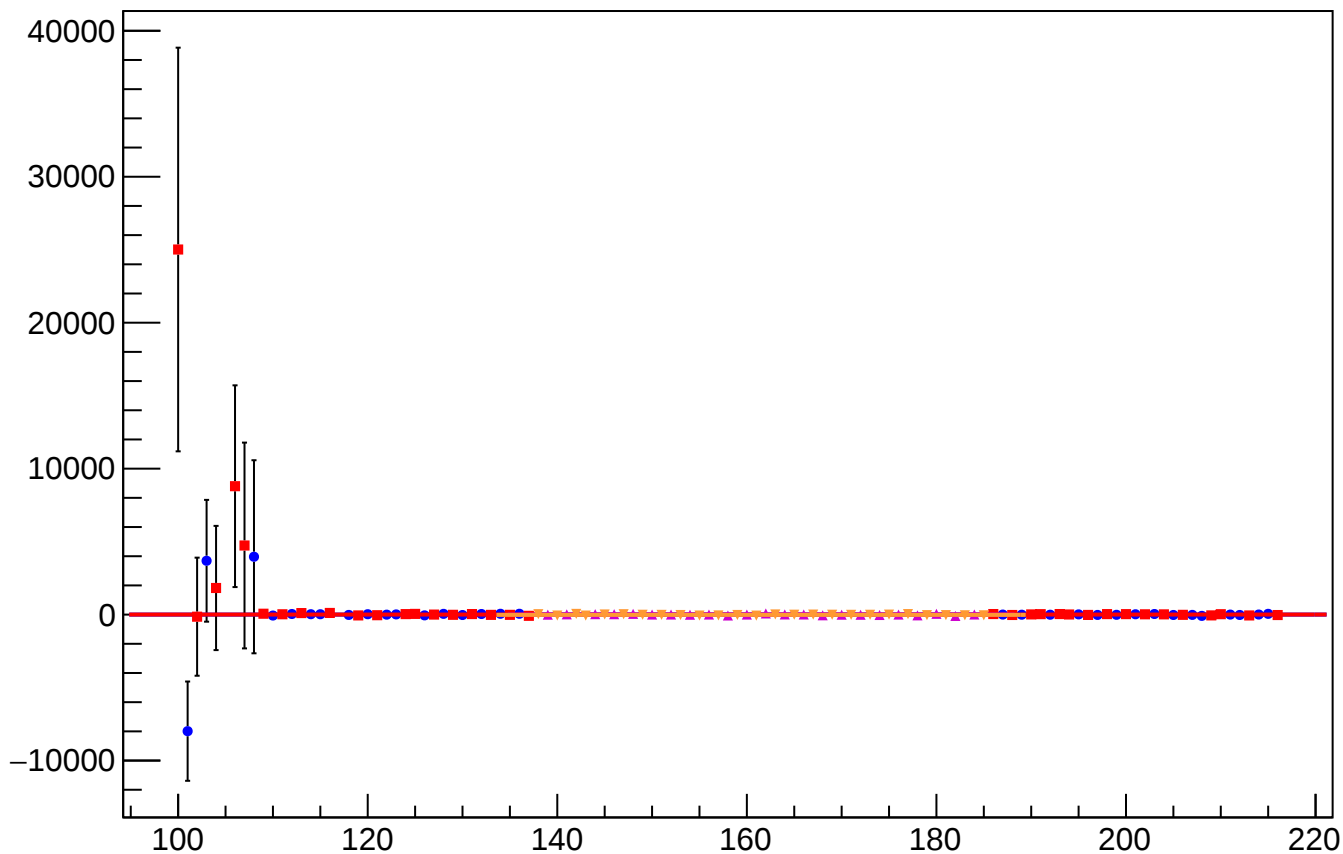
Right: 173.557+/-0.023 χ^2/NDF : 9988530.8/66

In: 178.584+/-0.023 χ^2/NDF :6032740.5/54

Out: 185.678+/-0.023 χ^2/NDF :7603198.2/59

All: 182.030+/-0.016 χ^2/NDF : 13683275.2/111

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: 4.058 ± 6.882 $\chi^2/\text{NDF}: 39.2/34$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

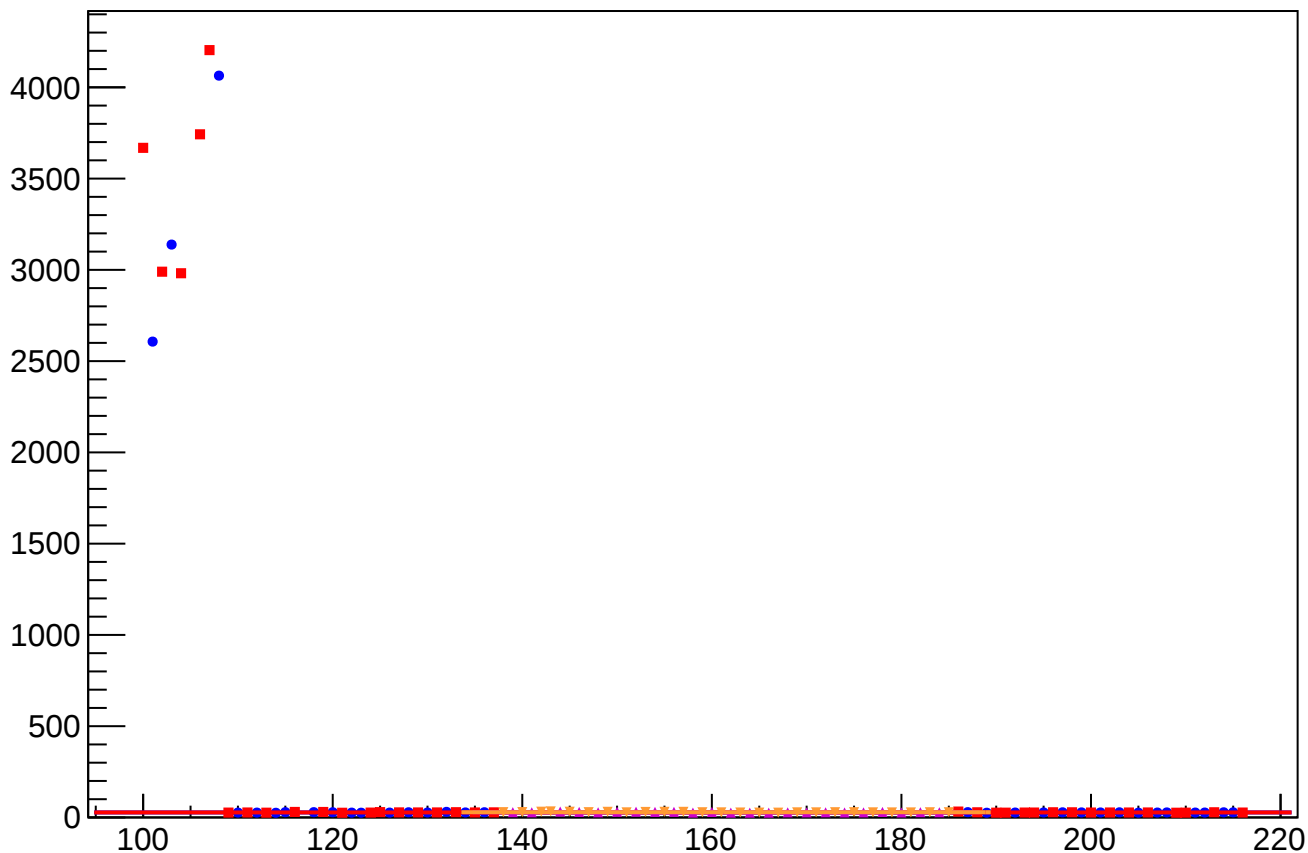
Right: 2.478 ± 4.873 $\chi^2/\text{NDF}: 71.8/66$

In: 1.078 ± 4.882 $\chi^2/\text{NDF}: 64.5/54$

Out: -7.321 ± 4.802 $\chi^2/\text{NDF}: 66.2/59$

All: -3.190 ± 3.423 $\chi^2/\text{NDF}: 132.3/114$

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: 27.446+/-0.005 χ^2/NDF : 3514393.3/34

Left In: 28.677+/-0.005 χ^2/NDF : 123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

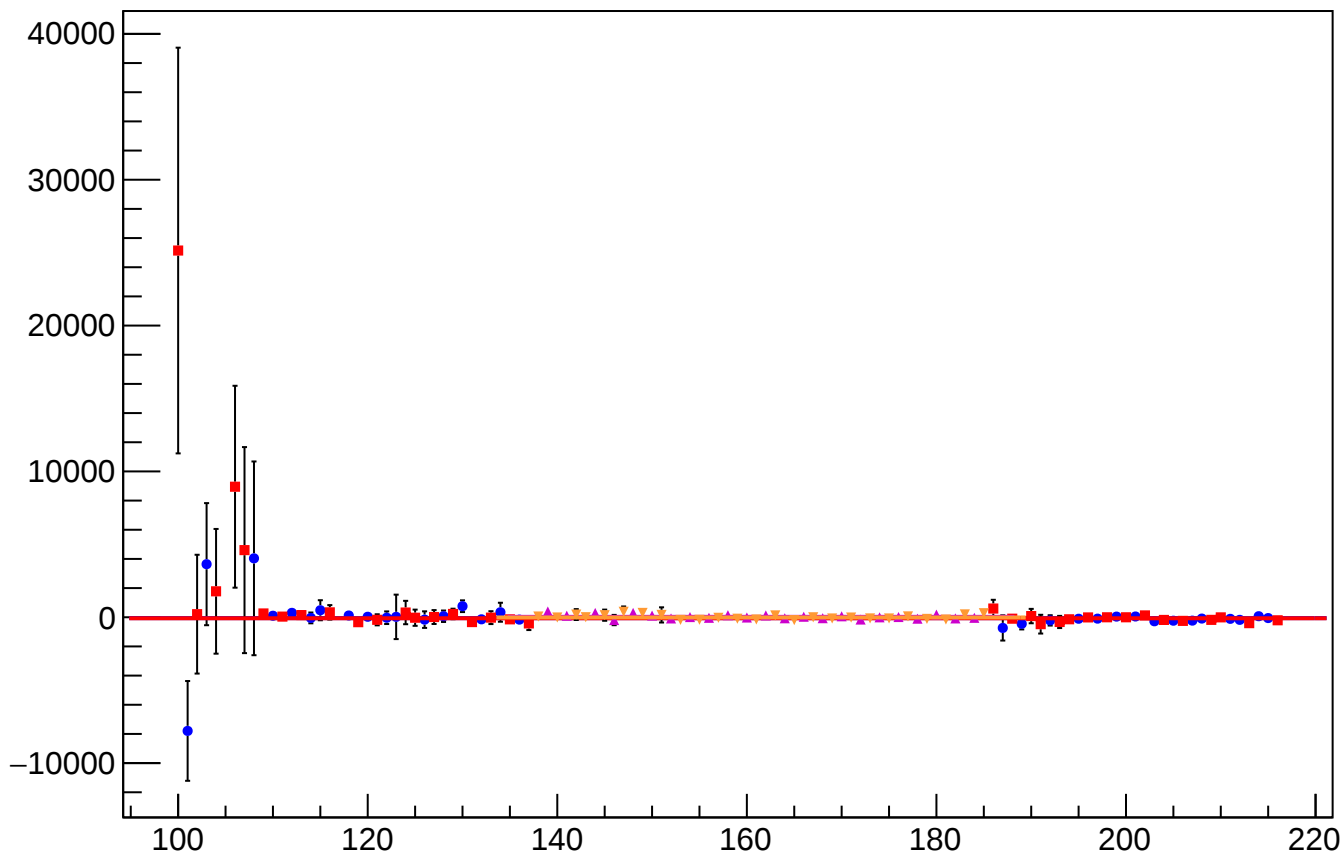
Right: 27.471+/-0.003 χ^2/NDF : 6558177.8/66

In: 28.085+/-0.003 χ^2/NDF : 3196828.1/54

Out: 28.086+/-0.003 χ^2/NDF : 3658605.8/59

All: 28.086+/-0.002 χ^2/NDF : 6855433.9/114

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.576 $\pm$ 44.786 χ^2 /NDF: 22.5/31

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF:8.8/24

Right Out: -69.682 $\pm$ 45.256 χ^2 /NDF: 21.9/34

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF:7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

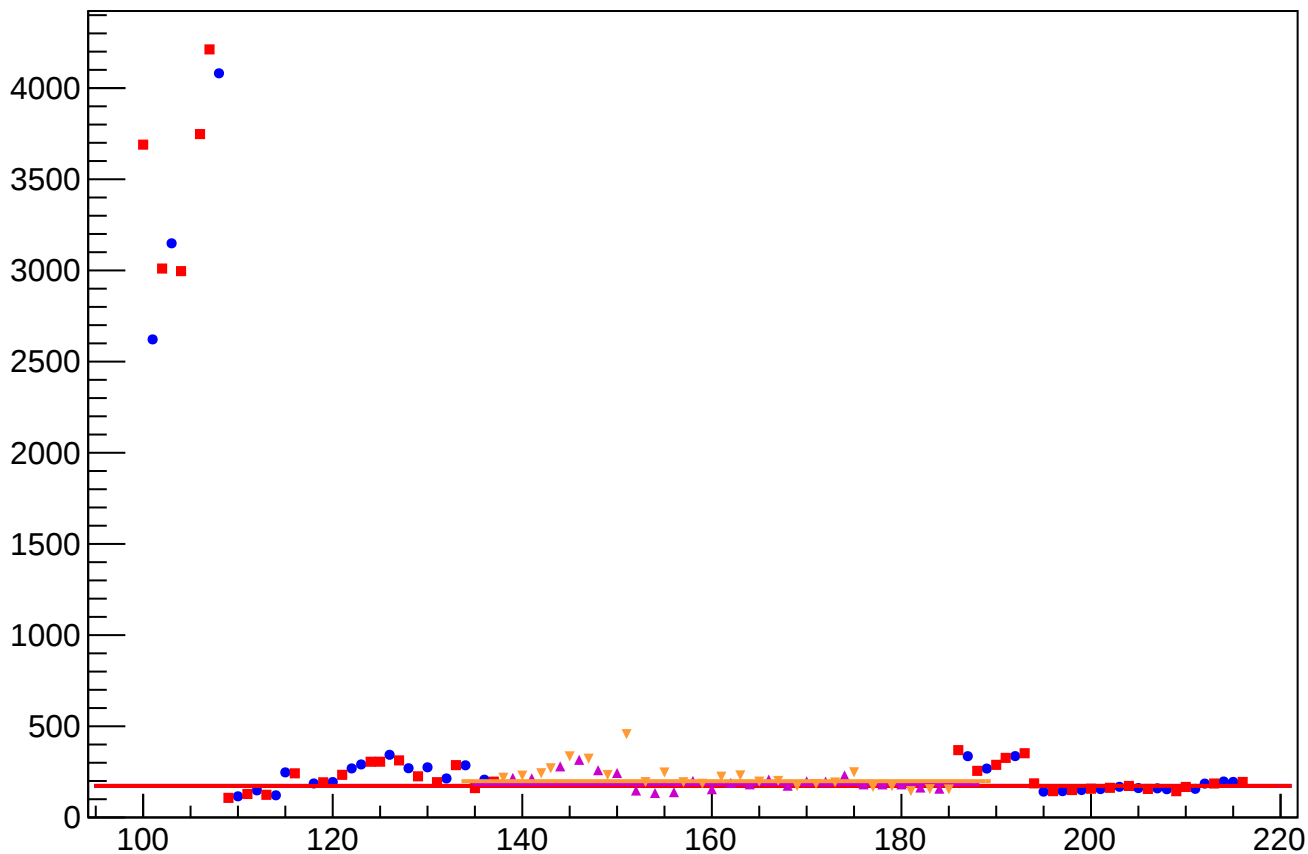
Right: -64.071 $\pm$ 31.833 χ^2 /NDF: 44.4/66

In: -16.706 $\pm$ 32.057 χ^2 /NDF:31.7/54

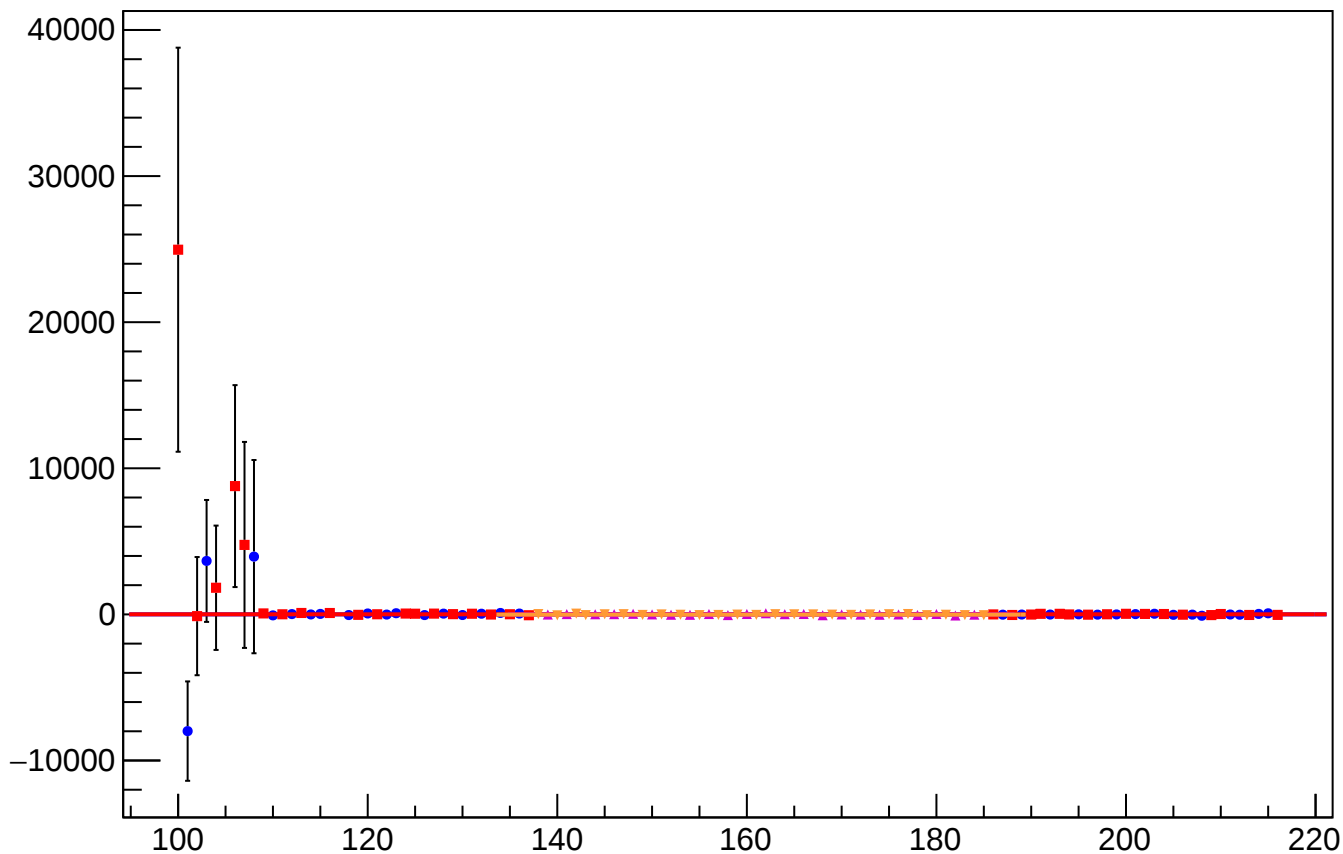
Out: -43.510 $\pm$ 32.978 χ^2 /NDF:31.4/59

All: -29.729 $\pm$ 22.987 χ^2 /NDF: 63.5/114

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



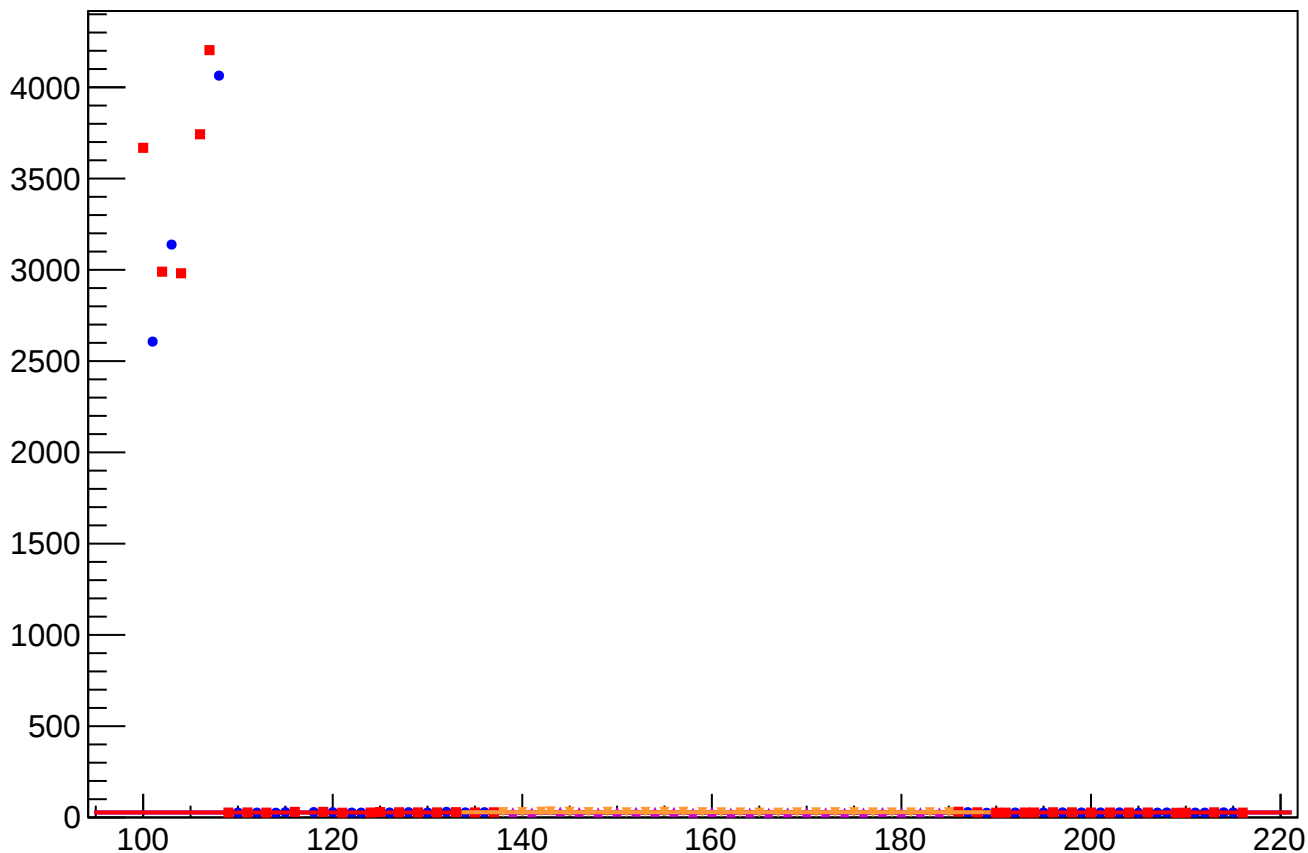
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.641+/-6.863 χ^2/NDF : 40.7/31
 Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24
 Right Out: 7.244+/-6.856 χ^2/NDF : 34.3/34
 Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47
 Right: 4.445+/-4.850 χ^2/NDF : 75.4/66
 In: 0.583+/-4.879 χ^2/NDF : 66.9/54
 Out: -4.501+/-4.804 χ^2/NDF : 56.6/59
 All: -1.998+/-3.423 χ^2/NDF : 124.0/114

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: 27.337 $\pm$ 0.005 χ^2 /NDF: 3519202.2/34

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

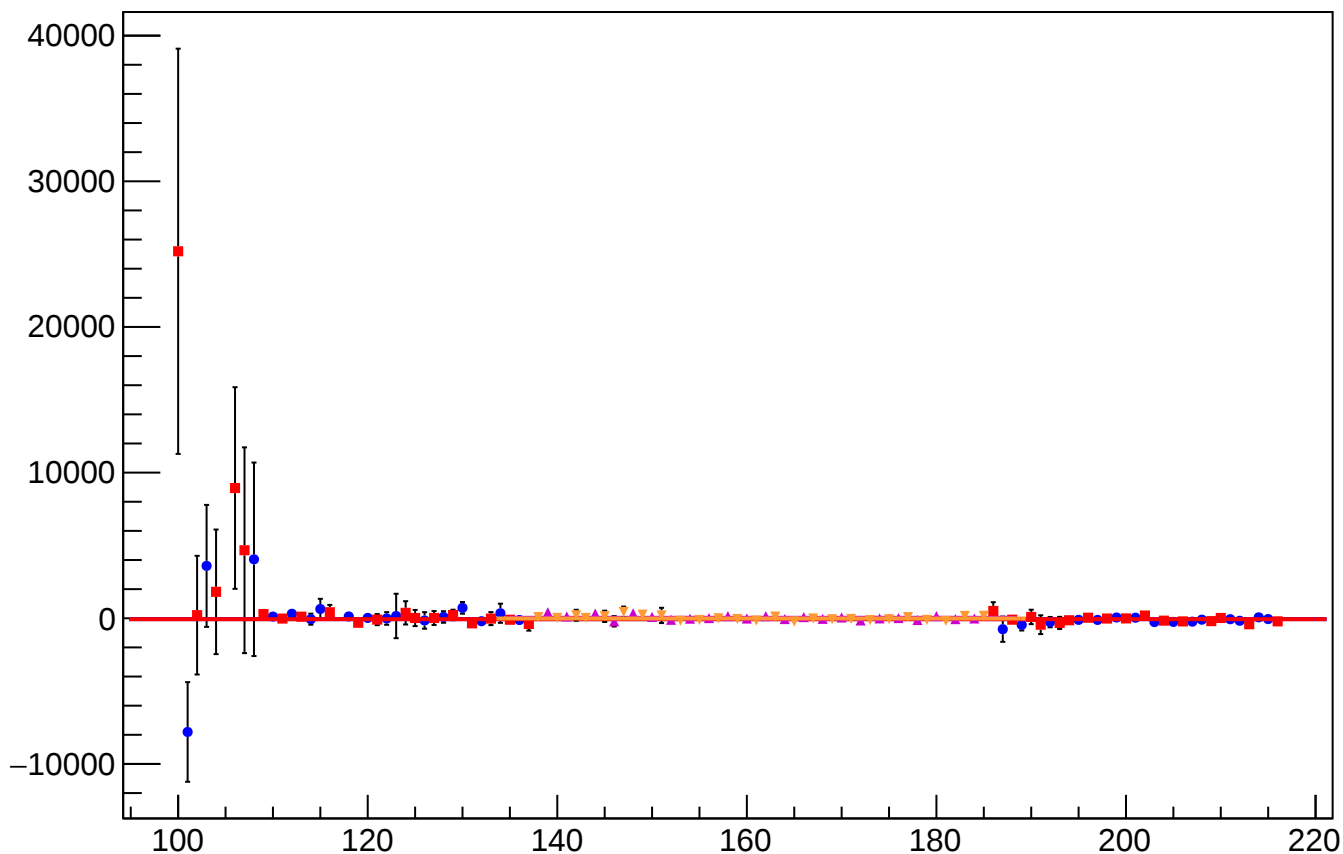
Right: 27.341 $\pm$ 0.003 χ^2 /NDF: 6569911.5/66

In: 28.063 $\pm$ 0.003 χ^2 /NDF:3223303.1/54

Out: 28.089 $\pm$ 0.003 χ^2 /NDF:3688639.6/59

All: 28.076 $\pm$ 0.002 χ^2 /NDF: 6911970.7/114

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.524+/-45.078 χ^2/NDF : 22.6/31

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: -62.718+/-45.581 χ^2/NDF : 21.4/34

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

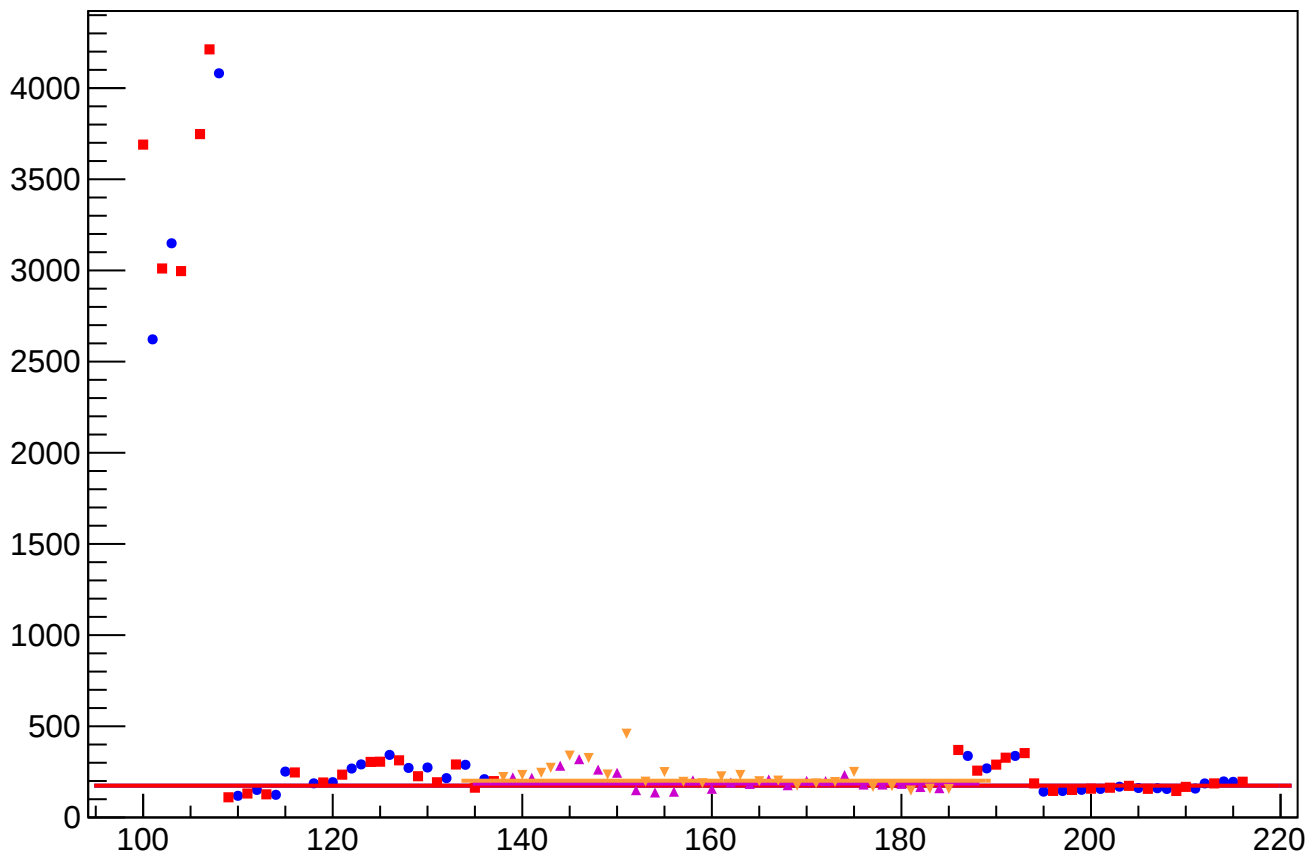
Right: -60.092+/-32.051 χ^2/NDF : 44.0/66

In: -14.388+/-32.360 χ^2/NDF : 32.3/54

Out: -39.970+/-33.290 χ^2/NDF : 30.1/59

All: -26.817+/-23.204 χ^2/NDF : 62.7/114

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.268 $\pm$ 0.032 χ^2 /NDF: 4547372.5/31

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 174.388 $\pm$ 0.032 χ^2 /NDF: 5376538.8/34

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

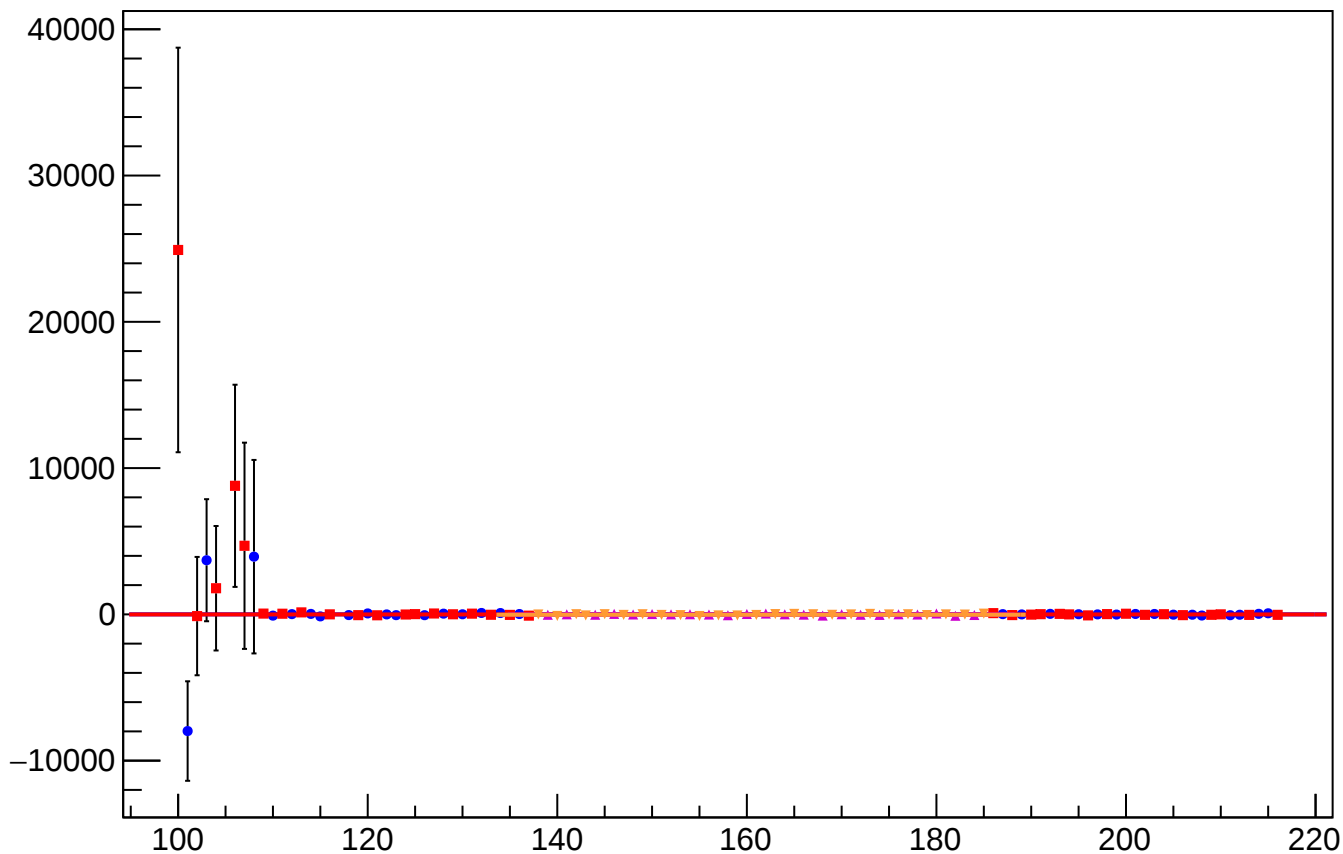
Right: 174.327 $\pm$ 0.023 χ^2 /NDF: 9923918.3/66

In: 179.895 $\pm$ 0.023 χ^2 /NDF:5992551.9/54

Out: 187.040 $\pm$ 0.024 χ^2 /NDF:7561673.1/59

All: 183.366 $\pm$ 0.016 χ^2 /NDF: 13601586.3/11

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: -3.722 ± 8.366 $\chi^2/\text{NDF}: 36.1/34$

Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$

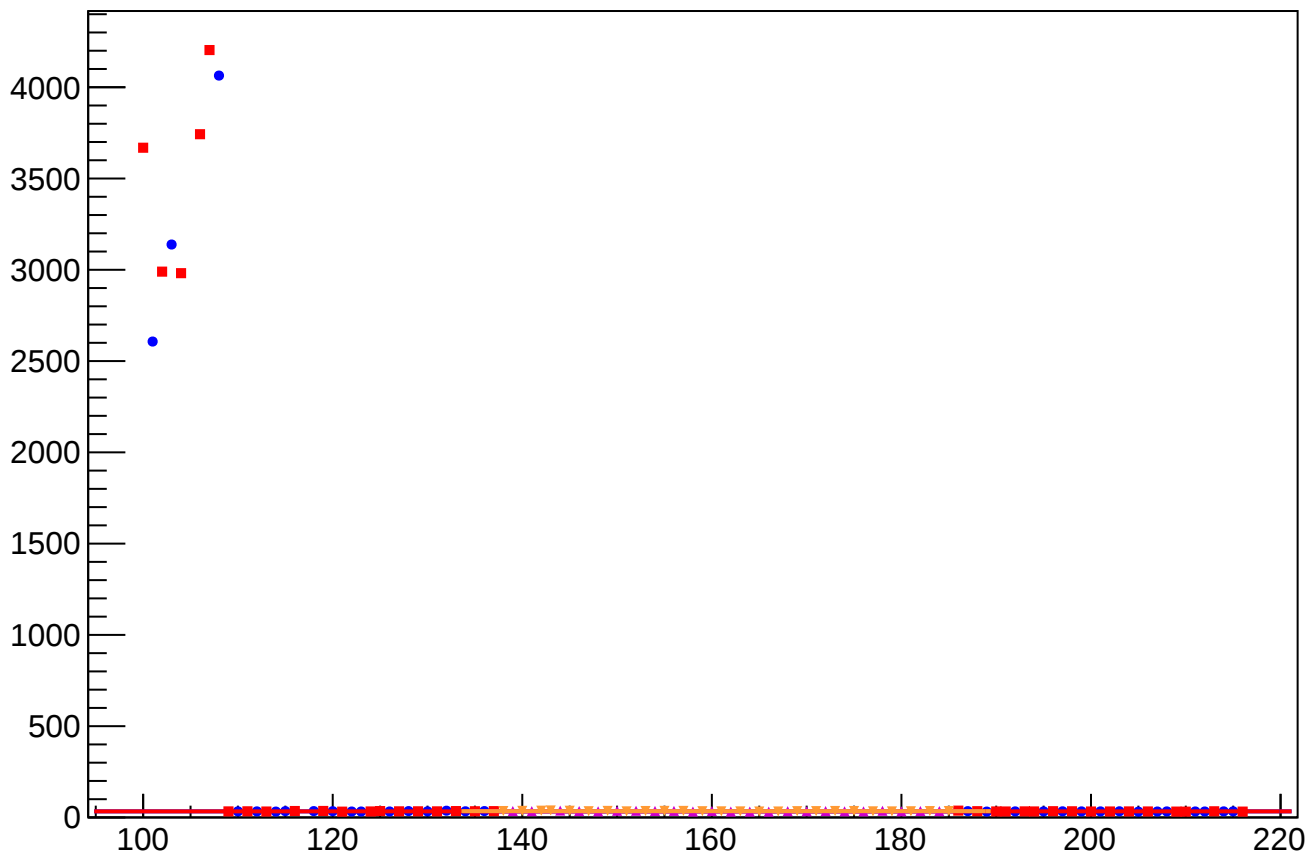
Right: -0.669 ± 5.918 $\chi^2/\text{NDF}: 70.0/66$

In: -1.784 ± 5.909 $\chi^2/\text{NDF}: 55.1/54$

Out: -14.293 ± 5.811 $\chi^2/\text{NDF}: 64.1/59$

All: -8.143 ± 4.143 $\chi^2/\text{NDF}: 121.5/114$

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: 33.406 $\pm$ 0.006 χ^2 /NDF: 3476486.8/34

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

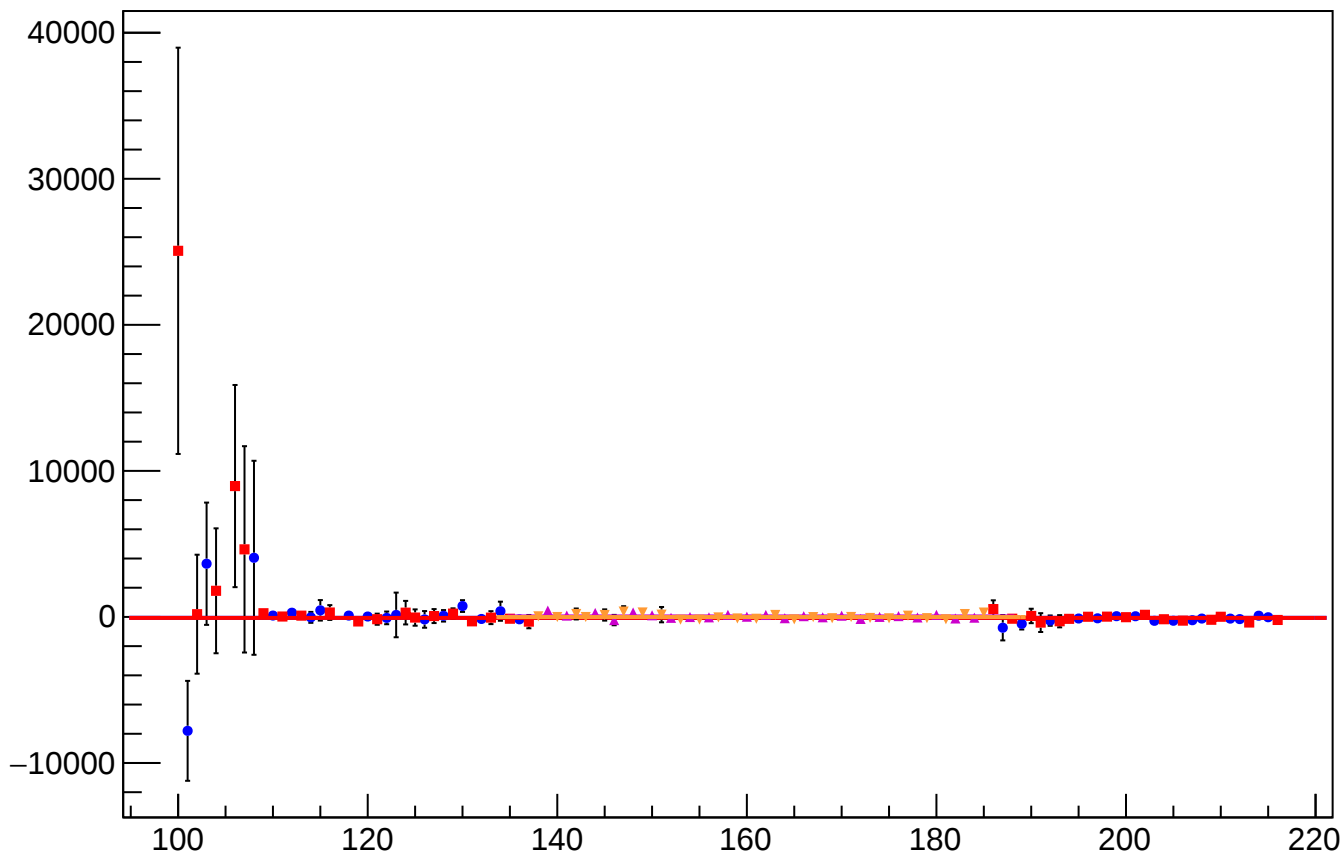
Right: 33.393 $\pm$ 0.004 χ^2 /NDF: 6496683.8/66

In: 34.034 $\pm$ 0.004 χ^2 /NDF: 3104254.4/54

Out: 34.033 $\pm$ 0.004 χ^2 /NDF: 3556065.3/59

All: 34.033 $\pm$ 0.003 χ^2 /NDF: 6660319.7/114

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: -66.728+/-45.415 χ^2/NDF : 19.8/34

Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47

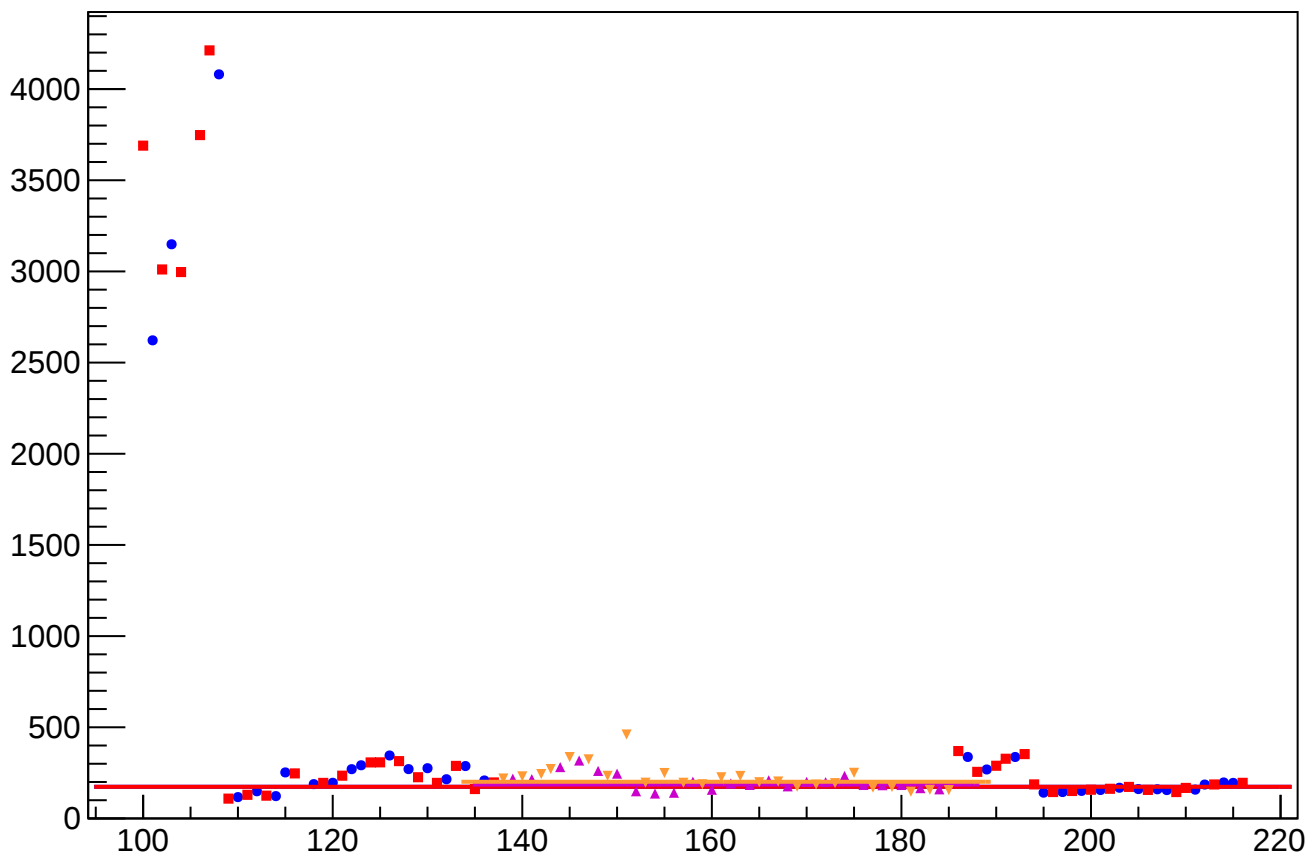
Right: -63.844+/-31.949 χ^2/NDF : 42.1/66

In: -14.562+/-32.293 χ^2/NDF : 31.6/54

Out: -39.182+/-33.202 χ^2/NDF : 29.3/59

All: -26.530+/-23.149 χ^2/NDF : 61.2/114

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.703+/-0.032 χ^2/NDF : 4577343.3/31

Left Out: 201.198+/-0.034 χ^2/NDF : 1848437.4/24

Right Out: 173.605+/-0.032 χ^2/NDF : 5425085.3/34

Left In: 185.627+/-0.033 χ^2/NDF : 1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

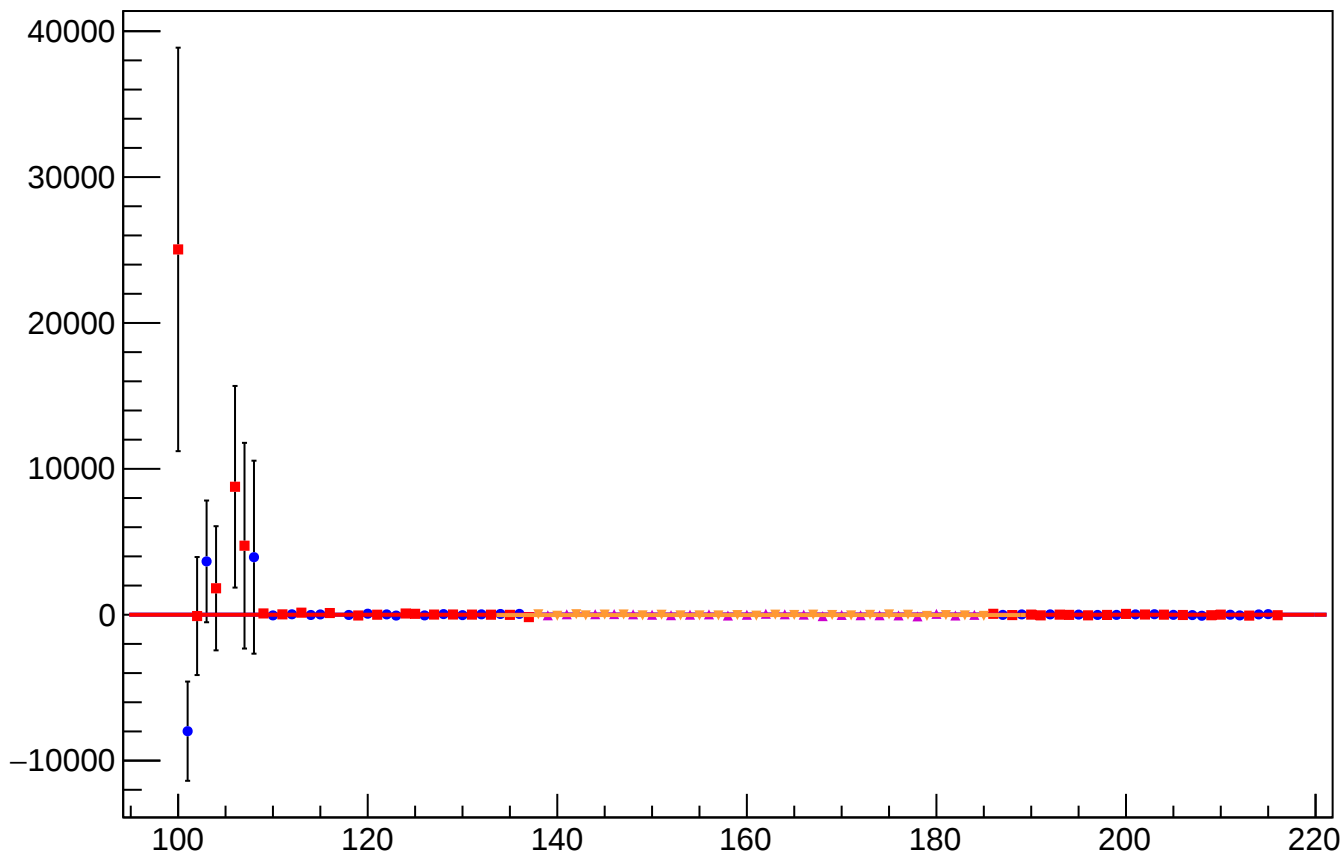
Right: 173.654+/-0.023 χ^2/NDF : 10002433.3/66

In: 179.474+/-0.023 χ^2/NDF : 6016858.4/54

Out: 186.450+/-0.023 χ^2/NDF : 7617230.3/59

All: 182.865+/-0.016 χ^2/NDF : 13679467.5/131

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: 0.610+/-7.570 χ^2/NDF : 42.5/34

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

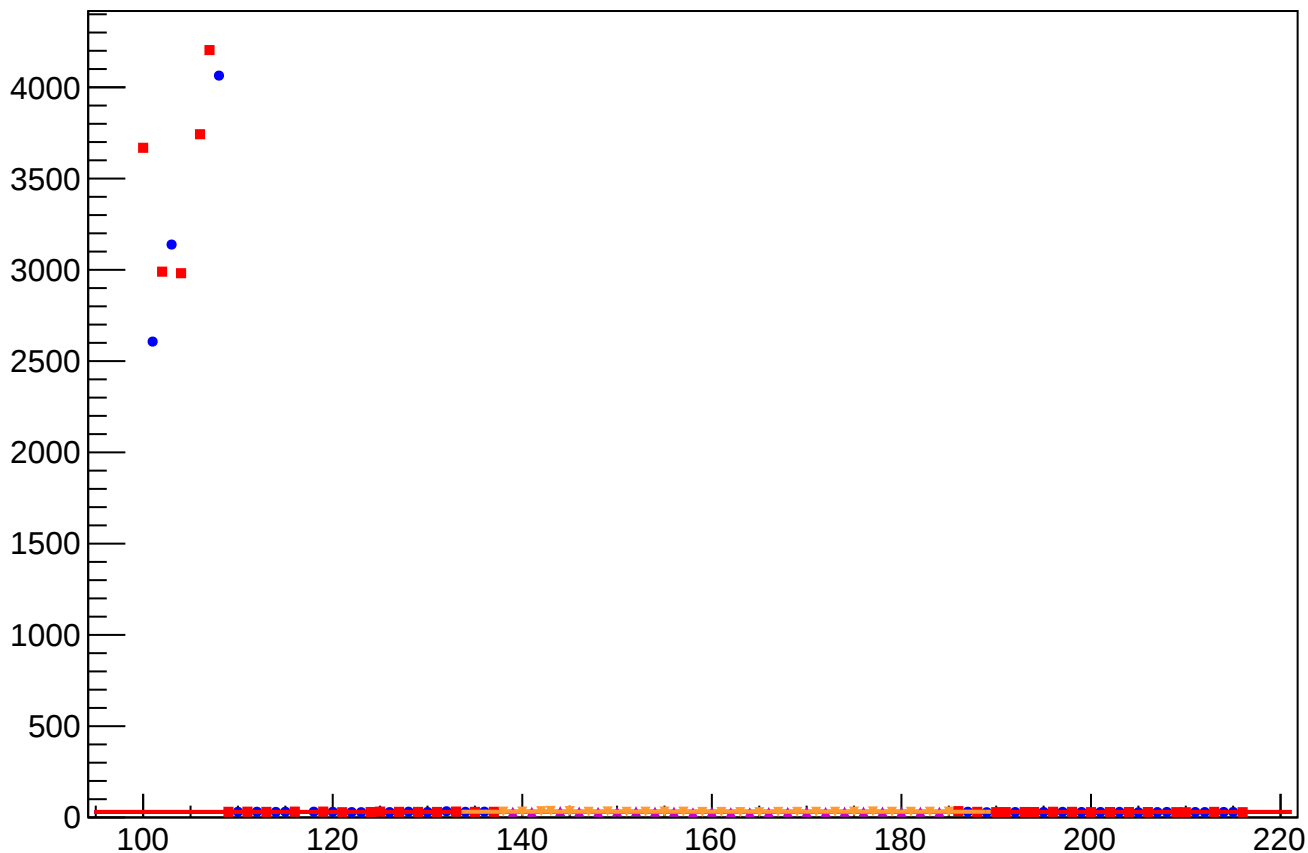
Right: 2.617+/-5.355 χ^2/NDF : 68.0/66

In: -0.878+/-5.357 χ^2/NDF :65.1/54

Out: -11.704+/-5.274 χ^2/NDF :66.0/59

All: -6.376+/-3.758 χ^2/NDF : 133.2/114

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: 30.200 $\pm$ 0.005 χ^2 /NDF: 3495643.2/34

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

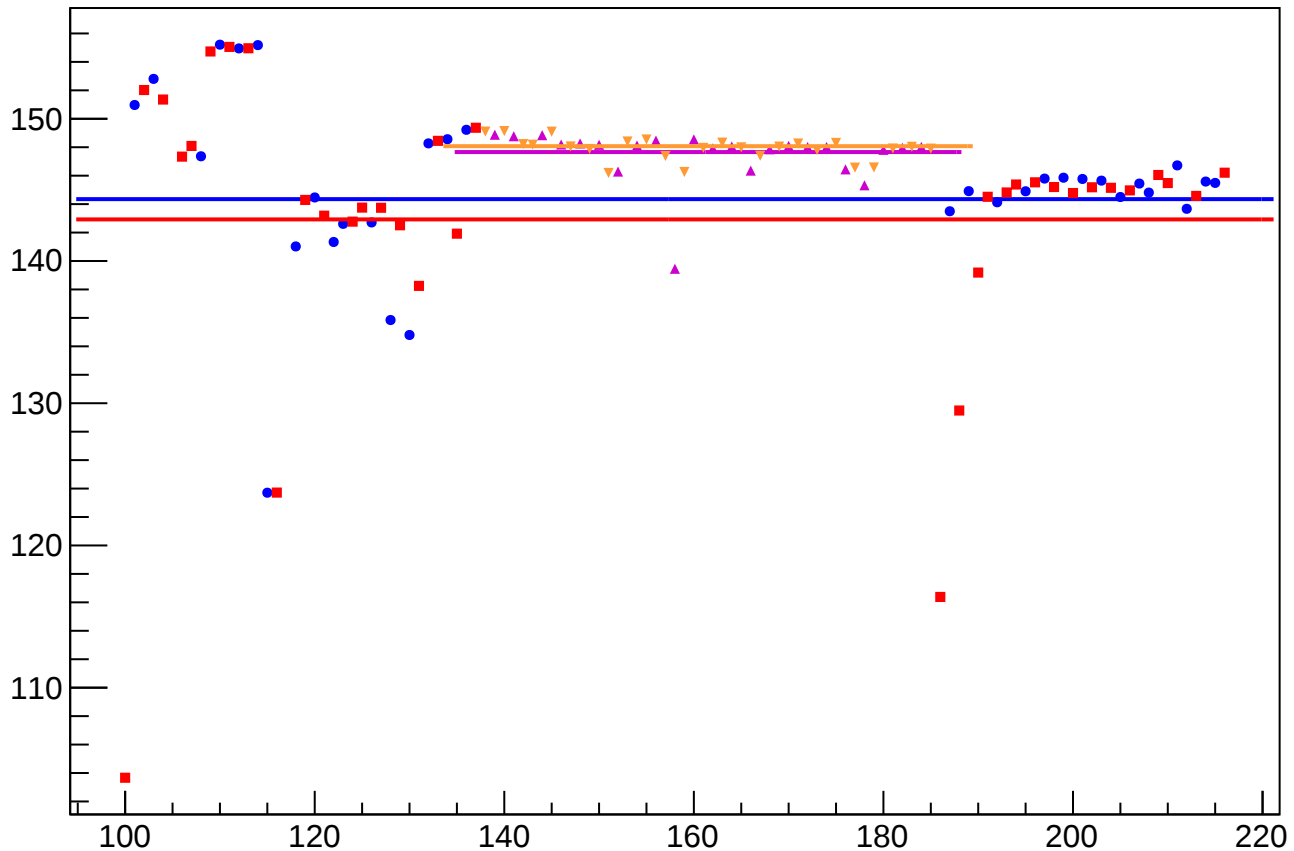
Right: 30.198 $\pm$ 0.004 χ^2 /NDF: 6534075.5/66

In: 30.836 $\pm$ 0.004 χ^2 /NDF:3154752.0/54

Out: 30.863 $\pm$ 0.004 χ^2 /NDF:3607389.8/59

All: 30.850 $\pm$ 0.003 χ^2 /NDF: 6762168.7/114

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: 142.925+/-0.000 χ^2/NDF : 7469687420.9/34

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

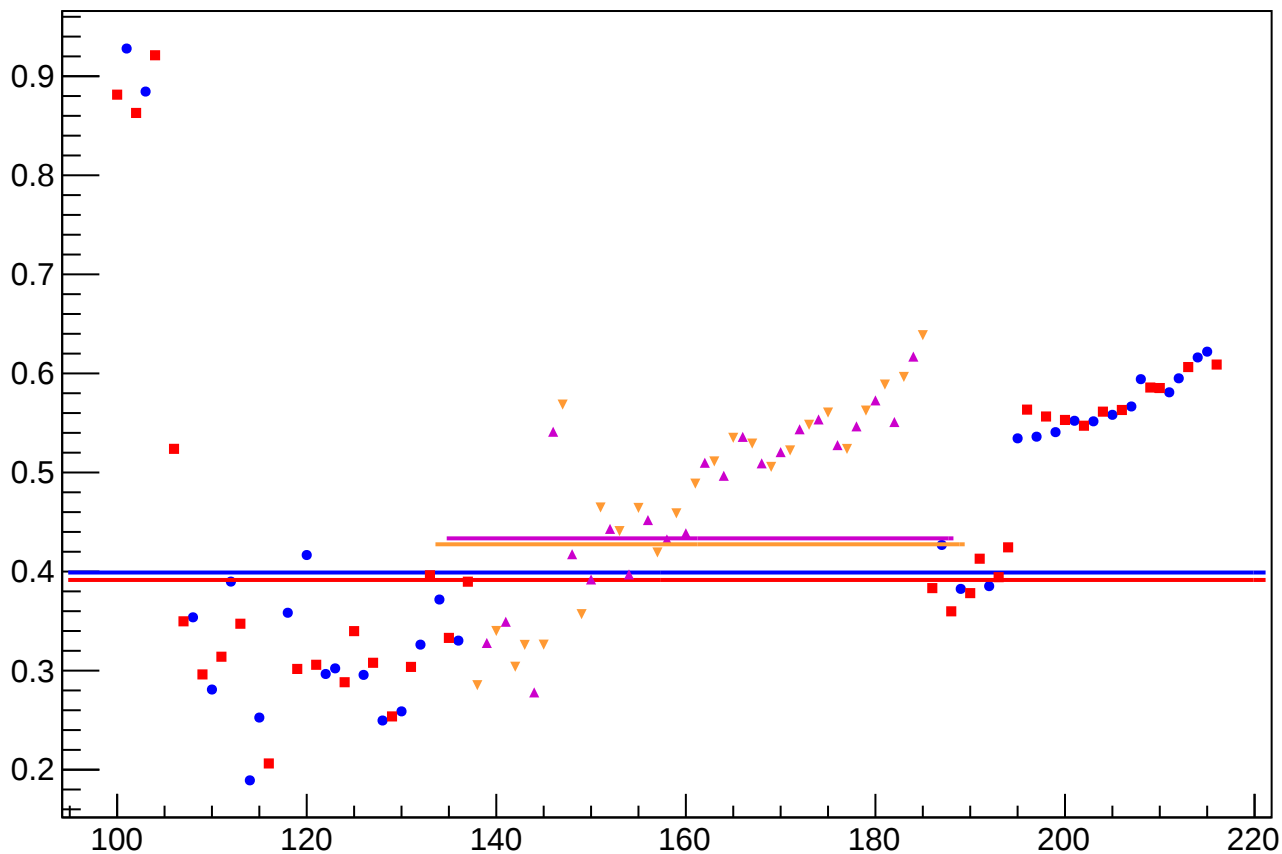
Right: 143.608+/-0.000 χ^2/NDF : 11074064735.6/66

In: 145.943+/-0.000 χ^2/NDF : 4338468485.6/54

Out: 145.393+/-0.000 χ^2/NDF : 8813362037.2/59

All: 145.657+/-0.000 χ^2/NDF : 13179862959.0

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: 0.392 $\pm$ 0.000 χ^2 /NDF: 3242467.0/34

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

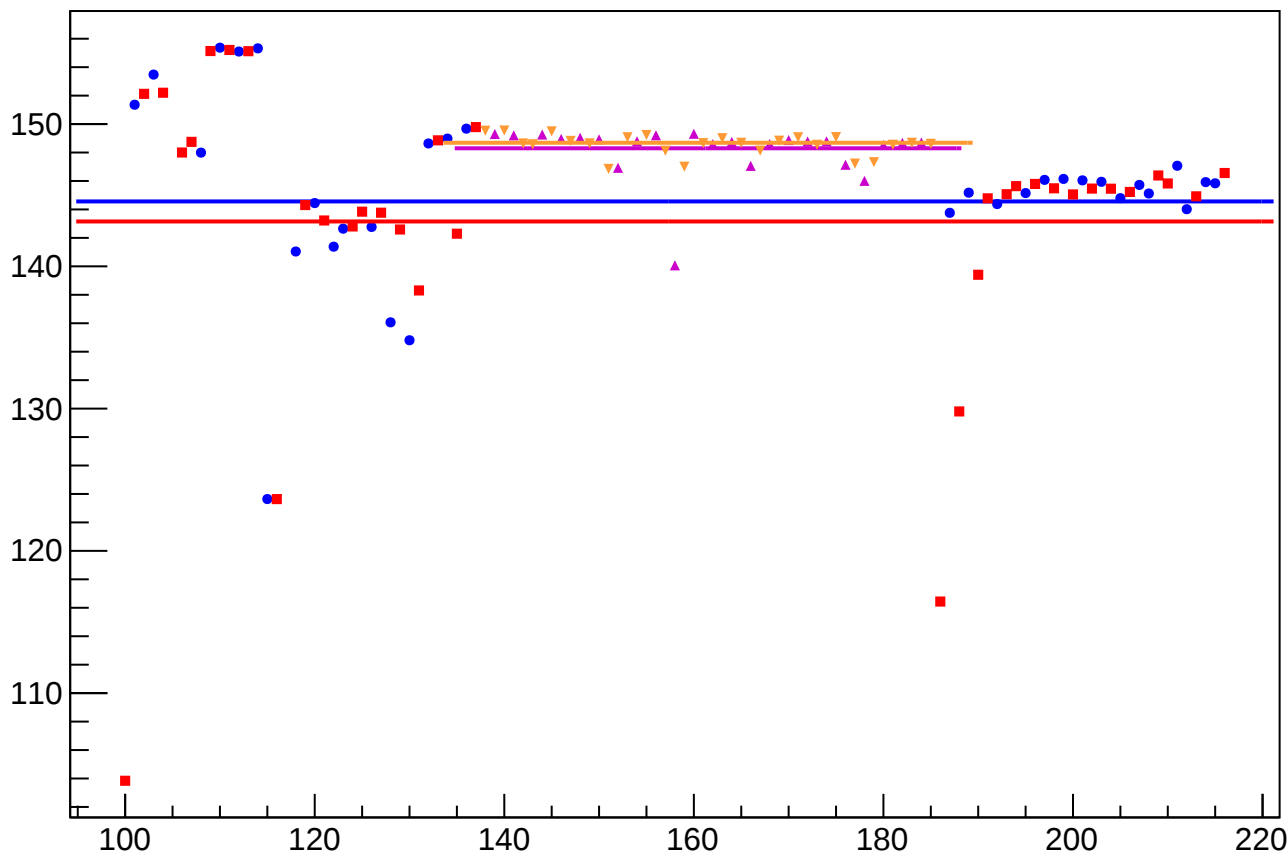
Right: 0.395 $\pm$ 0.000 χ^2 /NDF: 6854210.5/66

In: 0.416 $\pm$ 0.000 χ^2 /NDF:5191525.6/54

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:5260219.4/59

All: 0.412 $\pm$ 0.000 χ^2 /NDF: 10460440.2/114

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.562 $\pm$ 0.000 χ^2 /NDF: 3557559837.3/31

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.155 $\pm$ 0.000 χ^2 /NDF: 7422512603.5/34

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

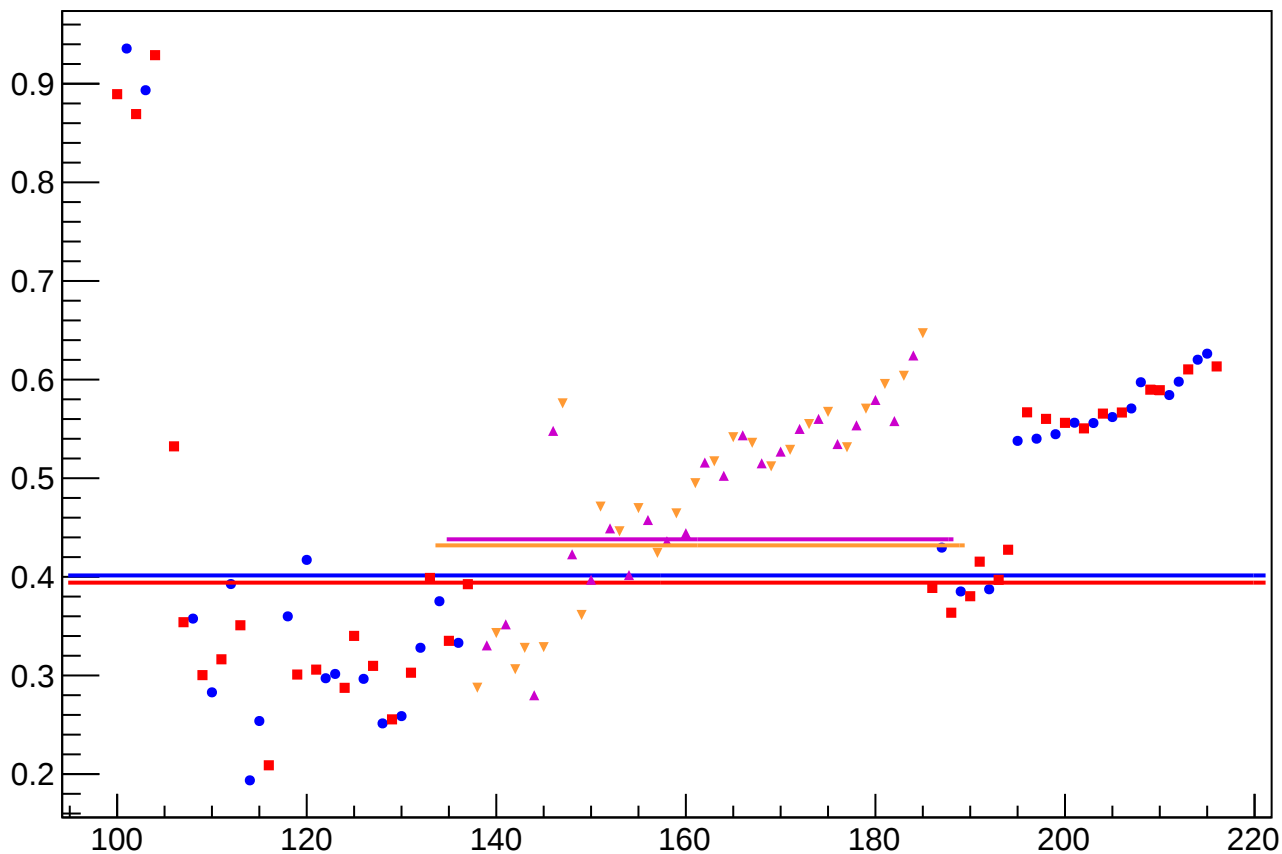
Right: 143.830 $\pm$ 0.000 χ^2 /NDF: 11074374987.8/66

In: 146.351 $\pm$ 0.000 χ^2 /NDF: 4501134390.7/54

Out: 145.796 $\pm$ 0.000 χ^2 /NDF: 8924795367.6/59

All: 146.062 $\pm$ 0.000 χ^2 /NDF: 13454055552.0/110

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: 0.394 $\pm$ 0.000 χ^2 /NDF: 3246904.9/34

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

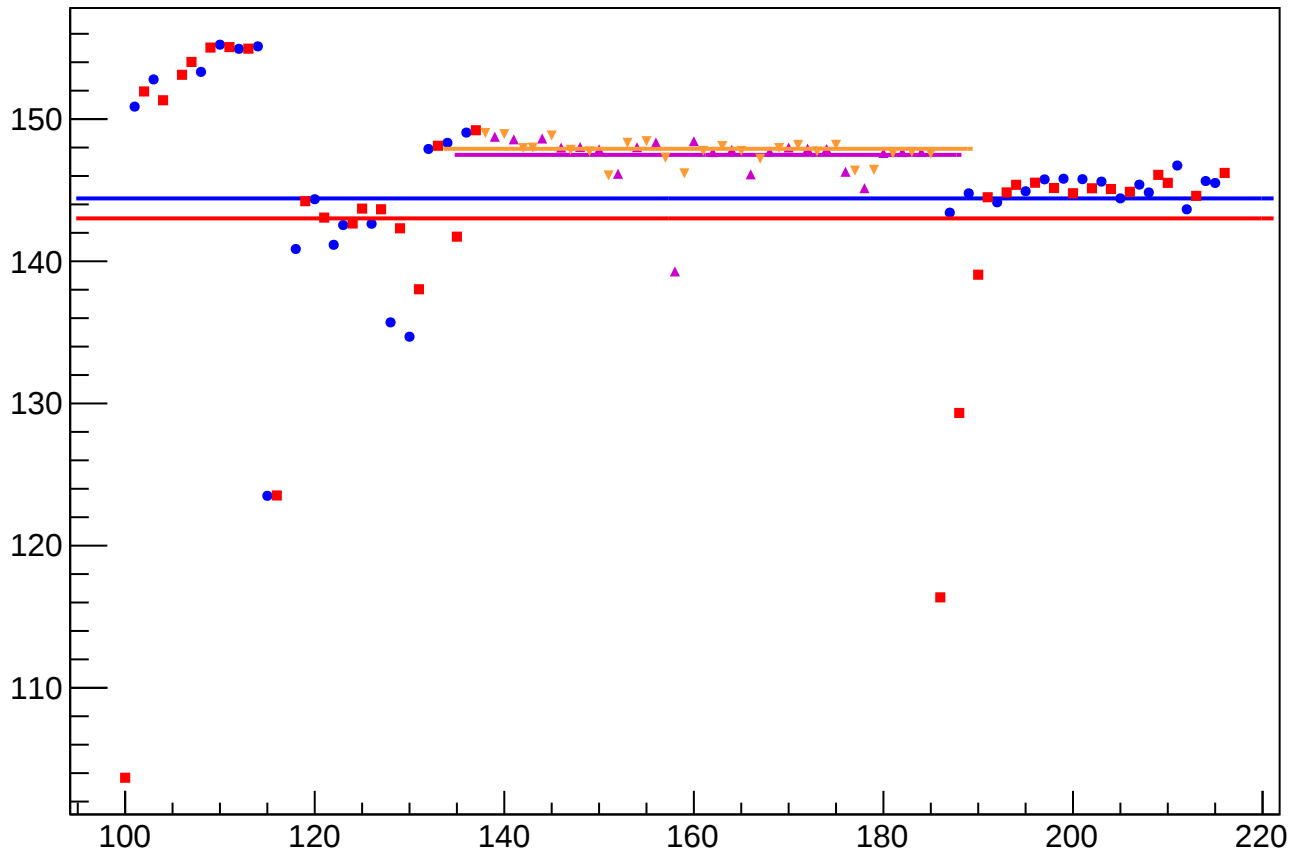
Right: 0.398 $\pm$ 0.000 χ^2 /NDF: 6866141.6/66

In: 0.419 $\pm$ 0.000 χ^2 /NDF:5236333.1/54

Out: 0.412 $\pm$ 0.000 χ^2 /NDF:5307239.0/59

All: 0.415 $\pm$ 0.000 χ^2 /NDF: 10552008.7/114

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.421+/-0.000 χ^2/NDF : 3711560857.3/31

Left Out: 147.912+/-0.000 χ^2/NDF : 64463426.1/24

Right Out: 143.017+/-0.000 χ^2/NDF : 7842990005.3/34

Left In: 147.483+/-0.000 χ^2/NDF : 342674720.4/22

Left: 147.706+/-0.000 χ^2/NDF : 415263003.2/47

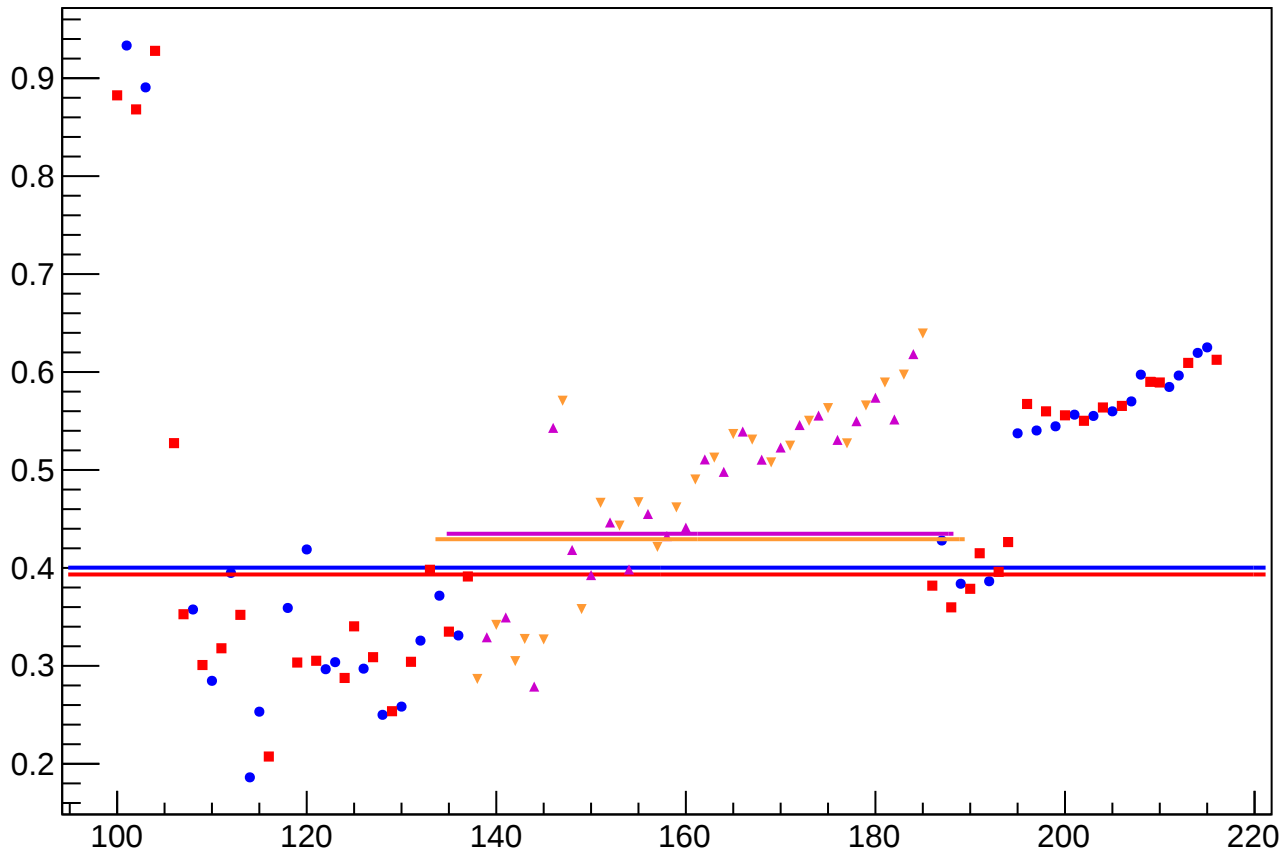
Right: 143.690+/-0.000 χ^2/NDF : 11648818067.9/66

In: 145.896+/-0.000 χ^2/NDF : 4469058470.6/54

Out: 145.365+/-0.000 χ^2/NDF : 9052754069.7/59

All: 145.620+/-0.000 χ^2/NDF : 13547757107.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.400+/-0.000 χ^2/NDF : 3645232.1/31

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.393+/-0.000 χ^2/NDF : 3251086.9/34

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

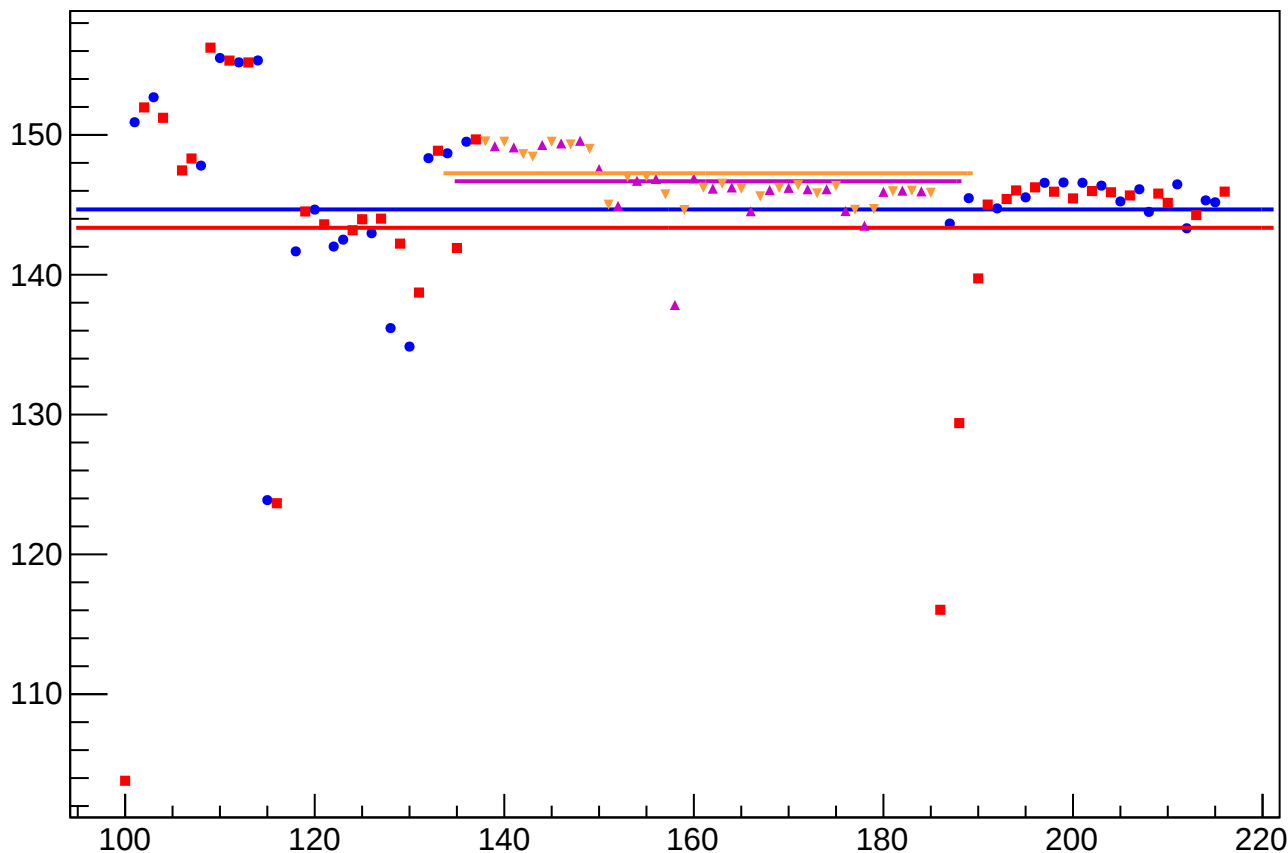
Right: 0.397+/-0.000 χ^2/NDF : 6900949.0/66

In: 0.417+/-0.000 χ^2/NDF :5237111.8/54

Out: 0.411+/-0.000 χ^2/NDF :5266640.1/59

All: 0.414+/-0.000 χ^2/NDF : 10511195.3/114

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.671+/-0.000 χ^2/NDF : 3230737722.8/31

Left Out: 147.257+/-0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.358+/-0.000 χ^2/NDF : 7154866759.0/34

Left In: 146.685+/-0.000 χ^2/NDF : 554922388.0/22

Left: 146.981+/-0.000 χ^2/NDF : 830580031.2/47

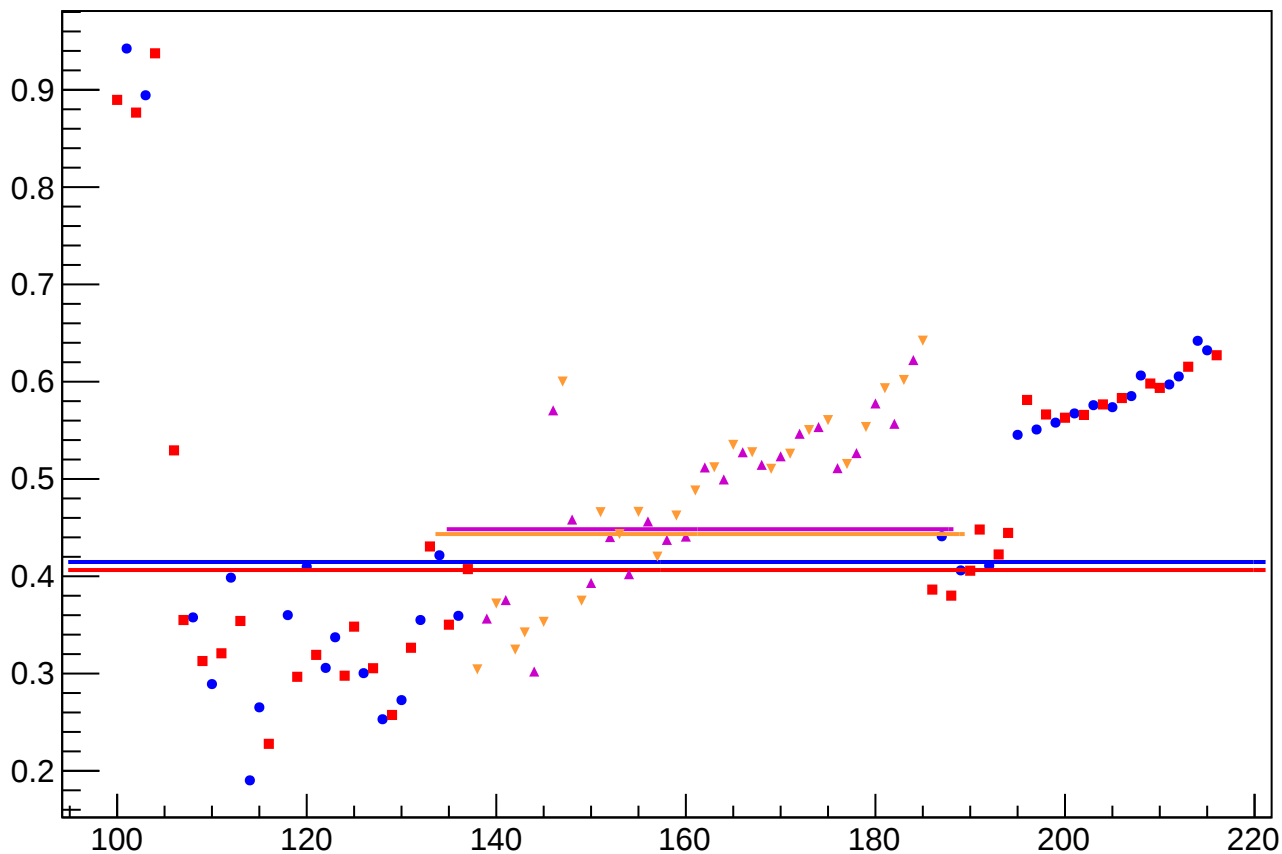
Right: 143.986+/-0.000 χ^2/NDF : 10462679298.3/66

In: 145.650+/-0.000 χ^2/NDF : 3954557421.4/54

Out: 145.238+/-0.000 χ^2/NDF : 8101259177.2/59

All: 145.436+/-0.000 χ^2/NDF : 12070520583.0

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: 0.406 $\pm$ 0.000 χ^2 /NDF: 3137859.4/34

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

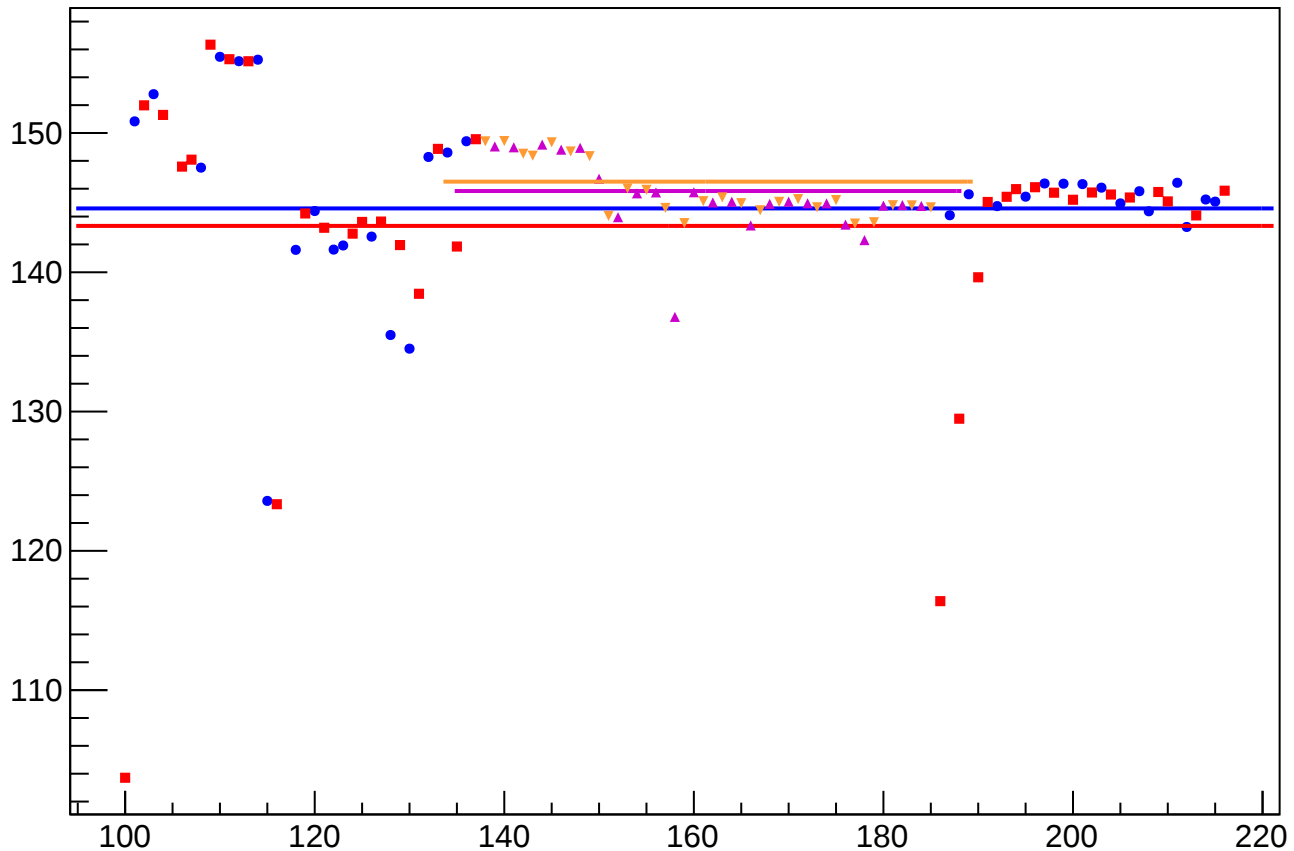
Right: 0.410 $\pm$ 0.000 χ^2 /NDF: 6667883.9/66

In: 0.431 $\pm$ 0.000 χ^2 /NDF:4738870.4/54

Out: 0.424 $\pm$ 0.000 χ^2 /NDF:4741354.4/59

All: 0.428 $\pm$ 0.000 χ^2 /NDF: 9488280.9/114

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: 143.330 $\pm$ 0.000 χ^2 /NDF: 7106646603.1/34

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

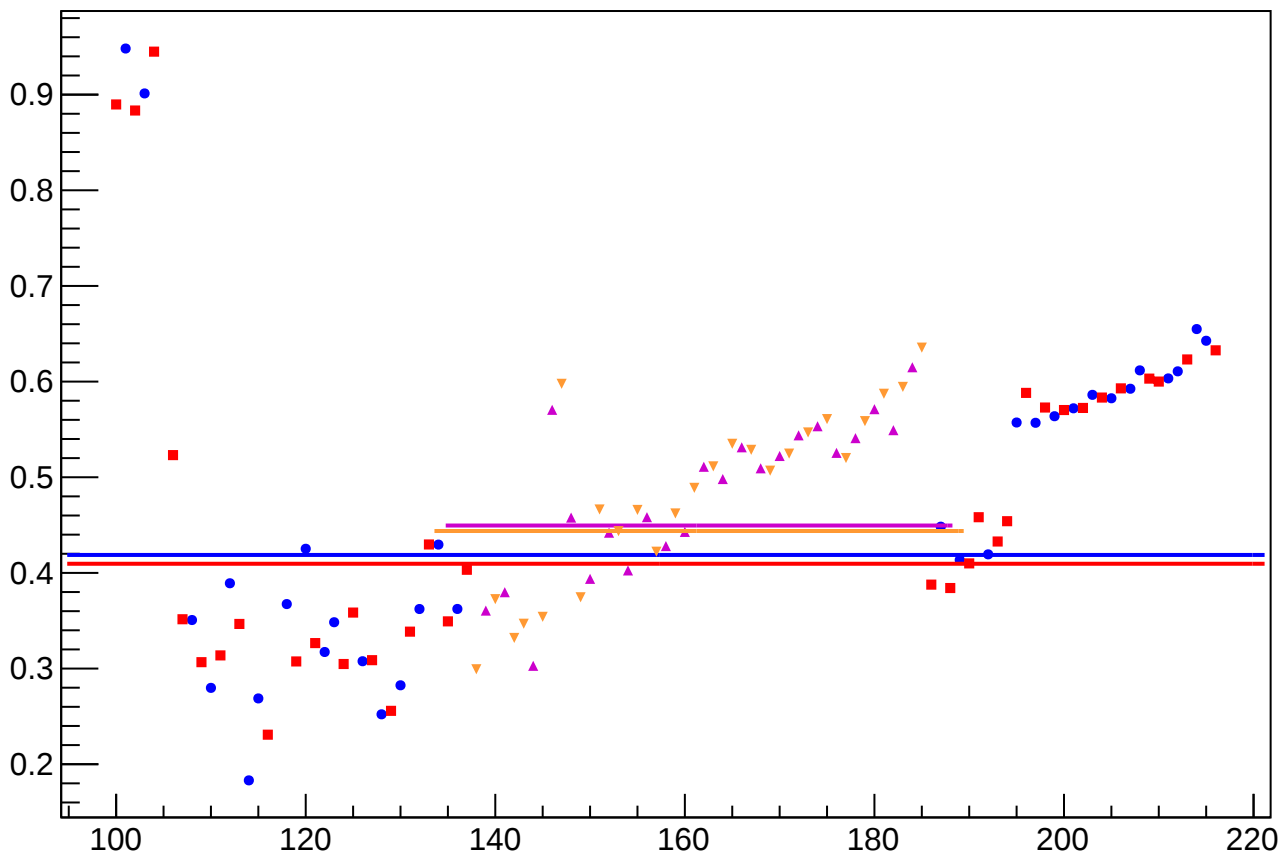
Right: 143.929 $\pm$ 0.000 χ^2 /NDF: 10516029903.4/66

In: 145.198 $\pm$ 0.000 χ^2 /NDF: 4094778184.2/54

Out: 144.876 $\pm$ 0.000 χ^2 /NDF: 7957954349.0/59

All: 145.030 $\pm$ 0.000 χ^2 /NDF: 12061617285.0/110

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.419+/-0.000 χ^2/NDF : 3582792.1/31

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.410+/-0.000 χ^2/NDF : 3175972.6/34

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

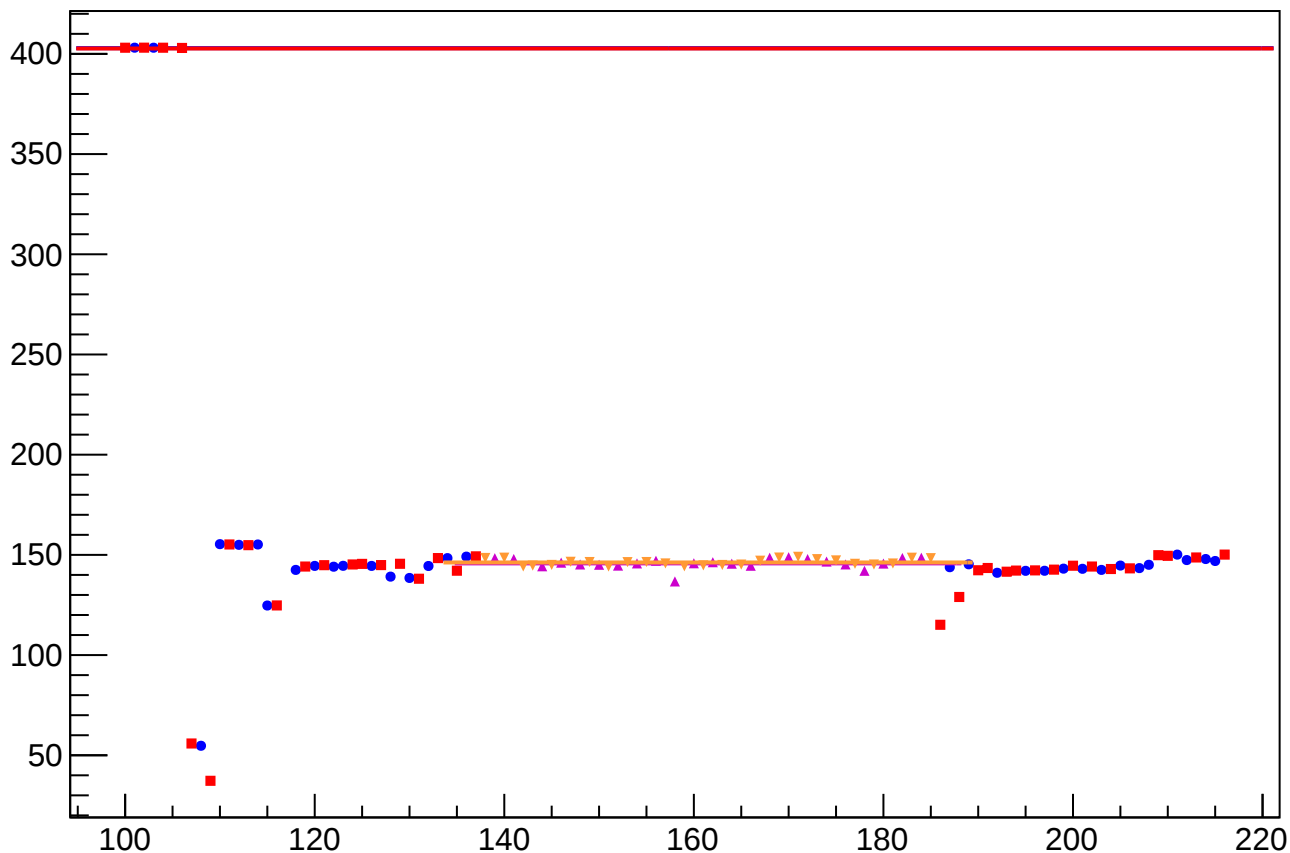
Right: 0.414+/-0.000 χ^2/NDF : 6766193.0/66

In: 0.434+/-0.000 χ^2/NDF :4753277.8/54

Out: 0.426+/-0.000 χ^2/NDF :4740843.2/59

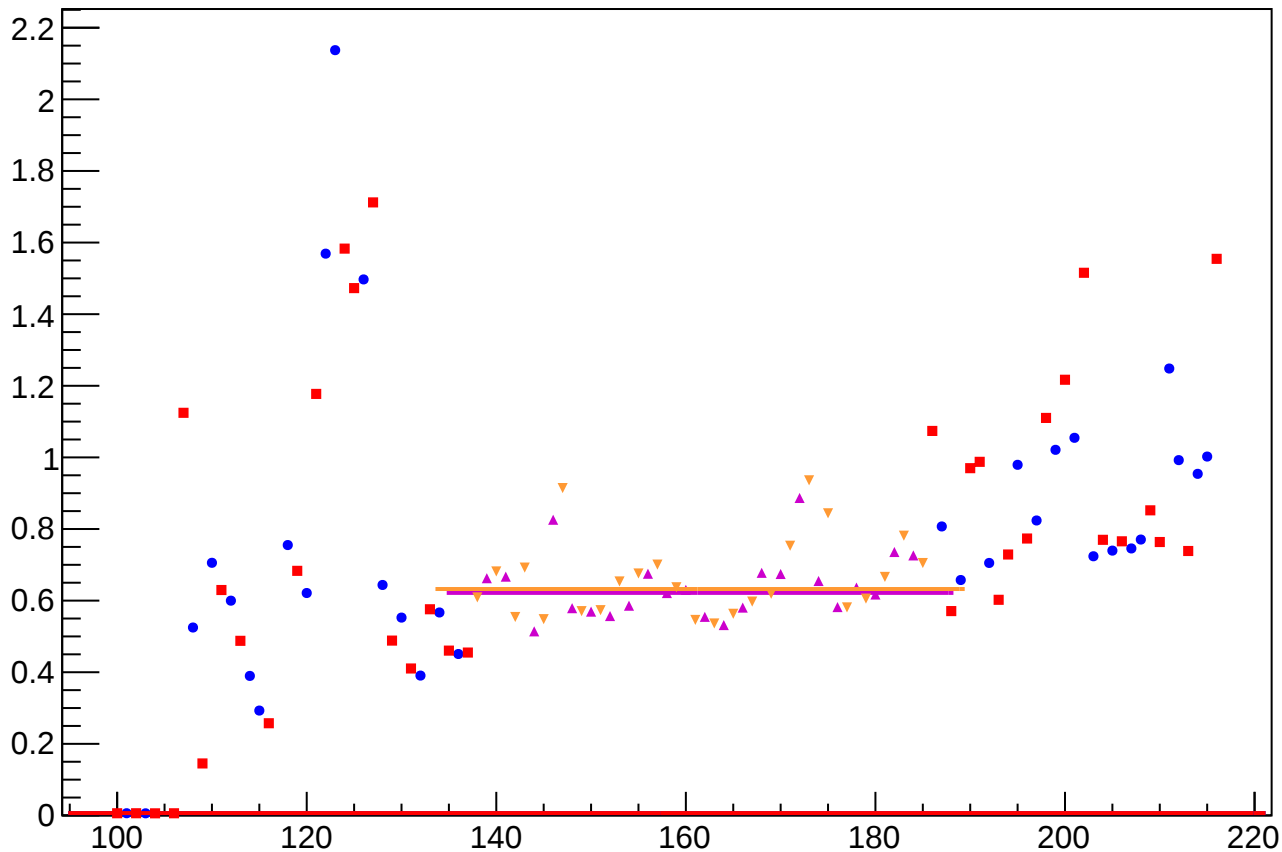
All: 0.430+/-0.000 χ^2/NDF : 9504148.3/114

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: 402.770 $\pm$ 0.000	χ^2 /NDF: 5975594742493.8
Right Out: 402.693 $\pm$ 0.000	χ^2 /NDF: 4081880173941.0/34	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: 402.432 $\pm$ 0.000	χ^2 /NDF: 6438624490429.1/54
		All: 402.496 $\pm$ 0.000	χ^2 /NDF: 106626680278

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 25915147.7/31

Left Out: 0.632+/-0.000 χ^2/NDF : 613604.5/24

Right Out: 0.007+/-0.000 χ^2/NDF : 27473401.1/34

Left In: 0.622+/-0.000 χ^2/NDF : 399965.3/22

Left: 0.627+/-0.000 χ^2/NDF : 1017722.4/47

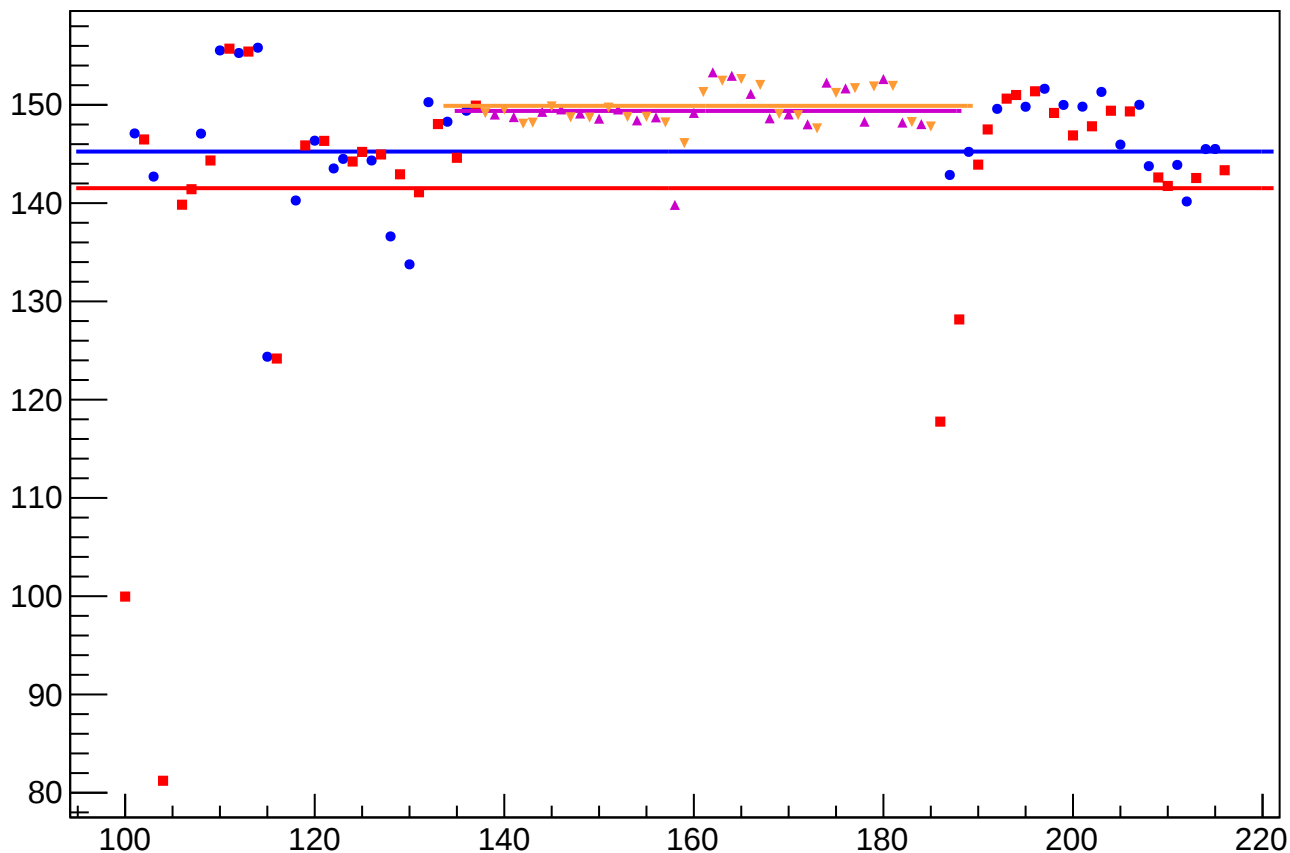
Right: 0.007+/-0.000 χ^2/NDF : 53388554.7/66

In: 0.007+/-0.000 χ^2/NDF : 52977589.8/54

Out: 0.007+/-0.000 χ^2/NDF : 56145031.9/59

All: 0.007+/-0.000 χ^2/NDF : 109122800.6/114

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: 141.521 $\pm$ 0.000

χ^2 /NDF: 3253109124.4/34

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: 143.192 $\pm$ 0.000

χ^2 /NDF: 4808505511.2/66

In: 147.932 $\pm$ 0.000

χ^2 /NDF: 2077797606.2/54

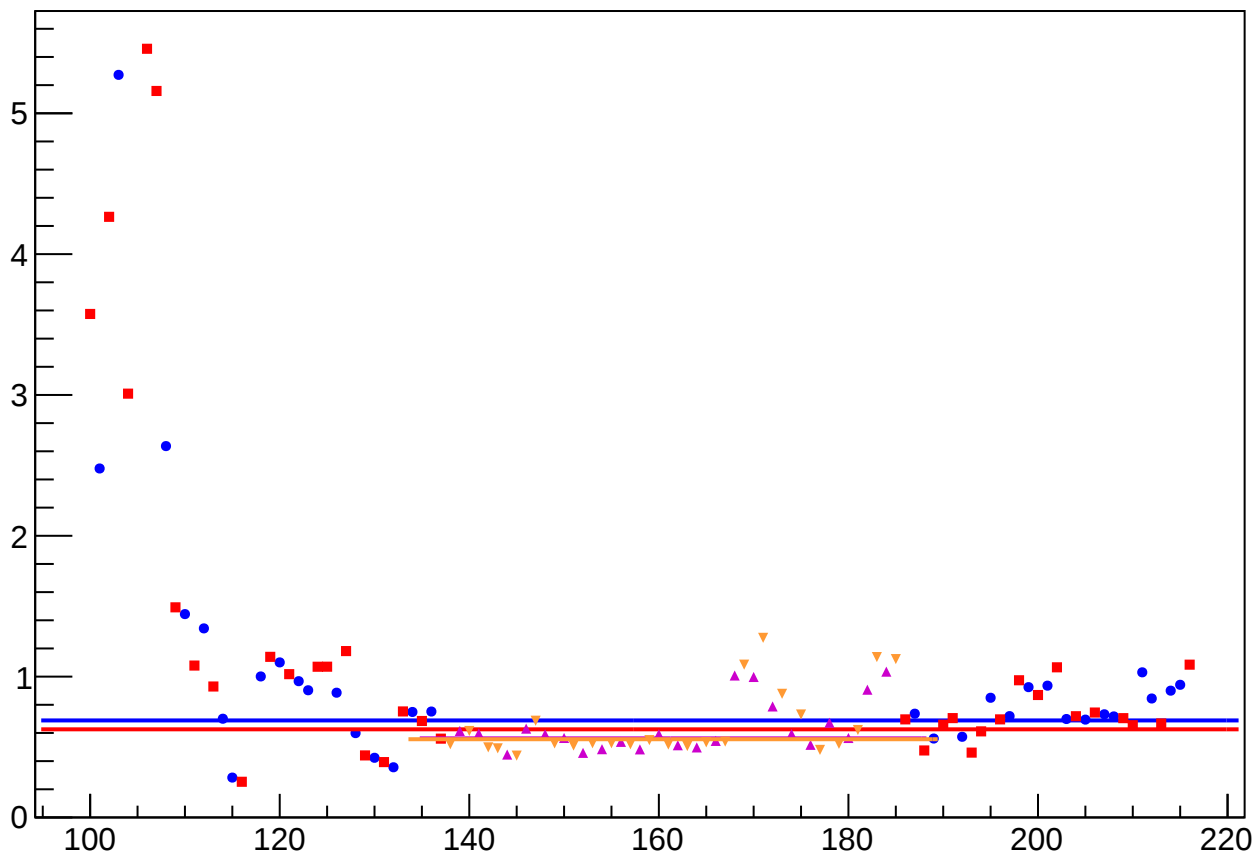
Out: 146.697 $\pm$ 0.000

χ^2 /NDF: 4778006524.1/59

All: 147.277 $\pm$ 0.000

χ^2 /NDF: 6914743600.2

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.689 ± 0.000 χ^2/NDF : 4391624.5/31

Left Out: 0.555 ± 0.000 χ^2/NDF : 1773688.1/24

Right Out: 0.626 ± 0.000 χ^2/NDF : 5802387.4/34

Left In: 0.562 ± 0.000 χ^2/NDF : 1305573.4/22

Left: 0.559 ± 0.000 χ^2/NDF : 3081194.0/47

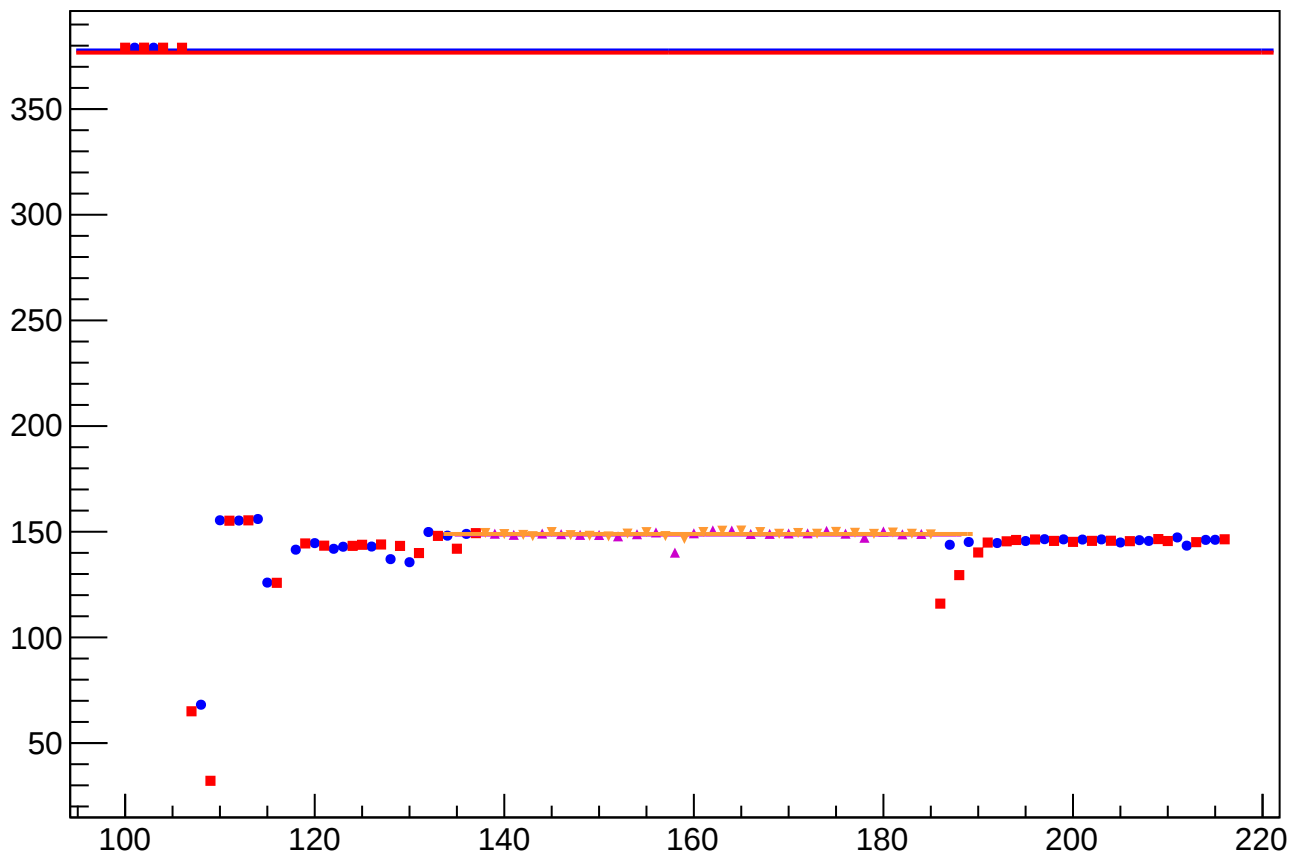
Right: 0.654 ± 0.000 χ^2/NDF : 10306425.0/66

In: 0.606 ± 0.000 χ^2/NDF : 6233507.6/54

Out: 0.582 ± 0.000 χ^2/NDF : 7767773.5/59

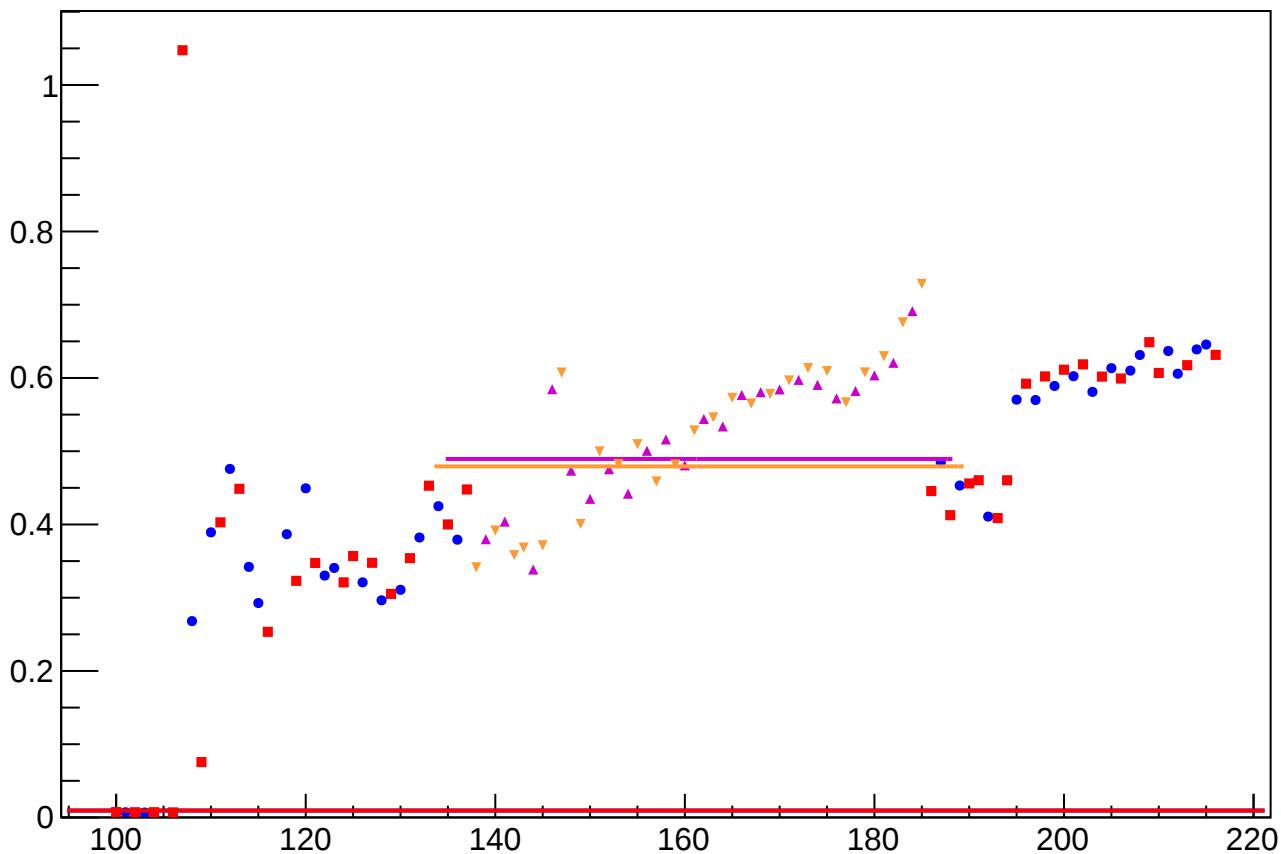
All: 0.594 ± 0.000 χ^2/NDF : 14045738.6/114

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.728 $\pm$ 0.000 χ^2 /NDF: 4227133226840.3/31
 Left Out: 148.944 $\pm$ 0.000 χ^2 /NDF: 63976941.3/24
 Right Out: 376.717 $\pm$ 0.000 χ^2 /NDF: 10327409533227.1/34
 Left In: 148.672 $\pm$ 0.000 χ^2 /NDF: 252846428.3/22
 Left: 148.814 $\pm$ 0.000 χ^2 /NDF: 319467494.9/47
 Right: 377.189 $\pm$ 0.000 χ^2 /NDF: 14561805956567.4
 In: 376.560 $\pm$ 0.000 χ^2 /NDF: 7797595525105.6/54
 Out: 375.604 $\pm$ 0.000 χ^2 /NDF: 14184136487147.2
 All: 376.051 $\pm$ 0.000 χ^2 /NDF: 219882560369.1

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 : 29935697.8/34

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

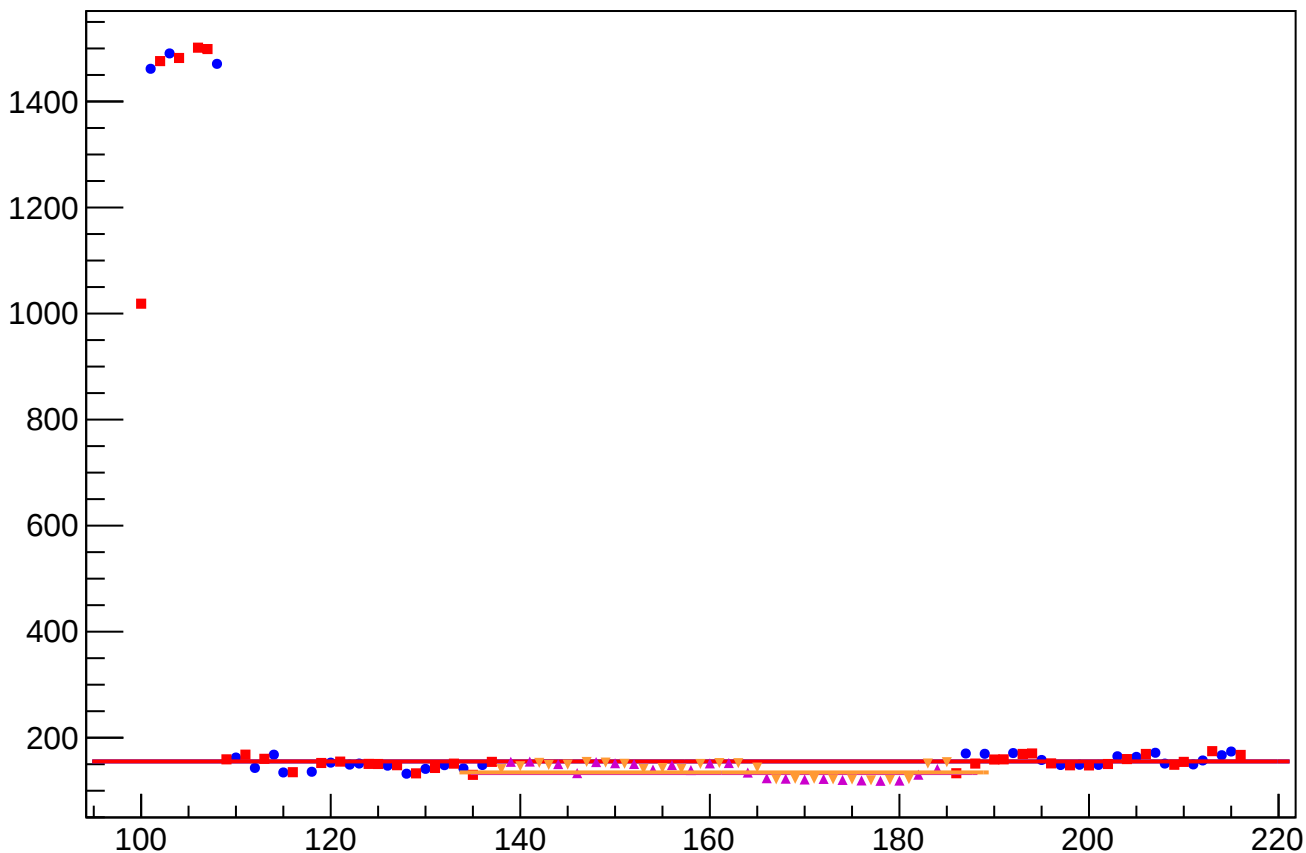
Right: 0.009+/-0.000 χ^2/NDF : 59782918.7/66

In: 0.012+/-0.000 χ^2/NDF :62281696.9/54

Out: 0.012+/-0.000 χ^2/NDF :64280621.5/59

All: 0.012+/-0.000 χ^2/NDF : 126562882.4/114

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: 155.308+/-0.000 χ^2/NDF : 35260220500.2/34

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

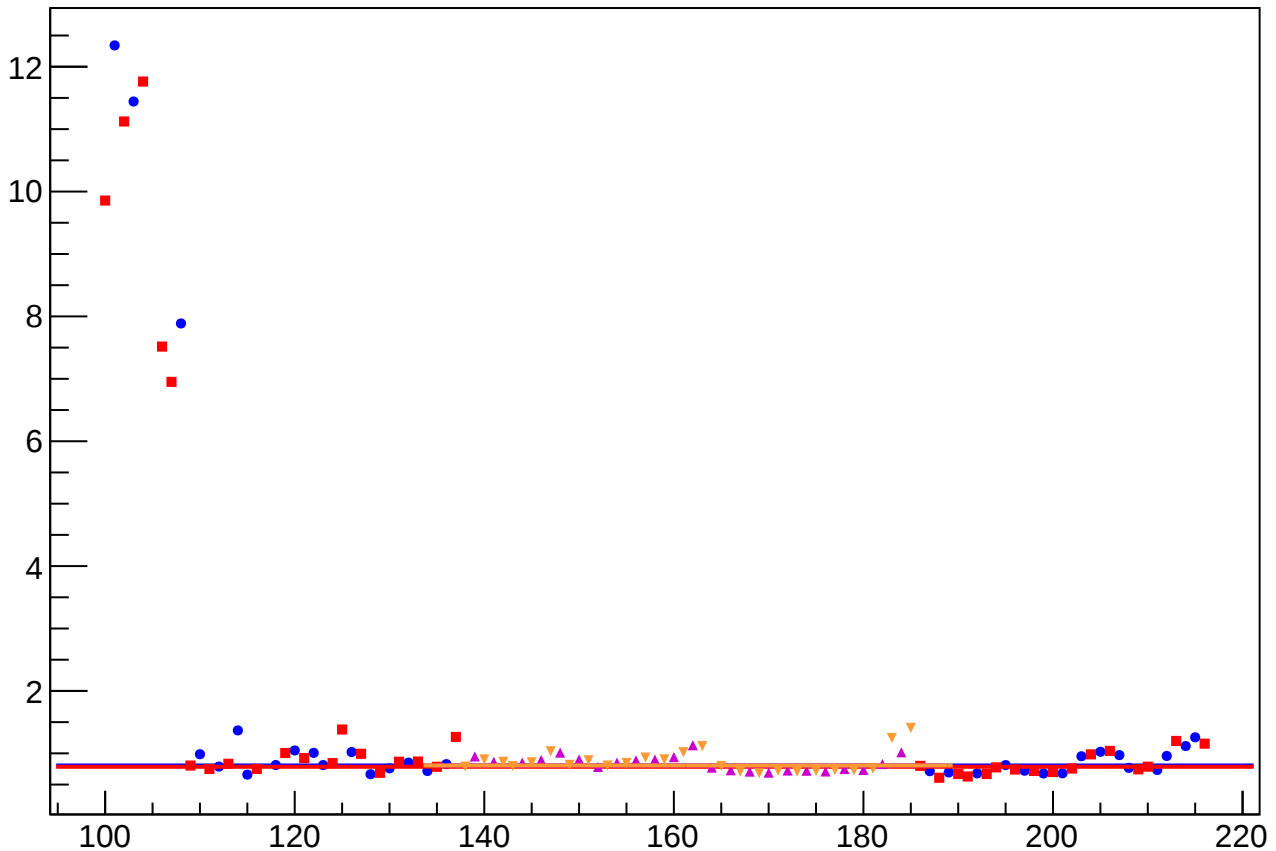
Right: 155.287+/-0.000 χ^2/NDF : 61442178432.1/66

In: 143.506+/-0.000 χ^2/NDF : 35556329421.7/54

Out: 144.379+/-0.000 χ^2/NDF : 44472599726.1/59

All: 143.956+/-0.000 χ^2/NDF : 80045569902.0/110

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.806+/-0.000 χ^2/NDF : 3303686.8/31

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.785+/-0.000 χ^2/NDF : 3556779.6/34

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

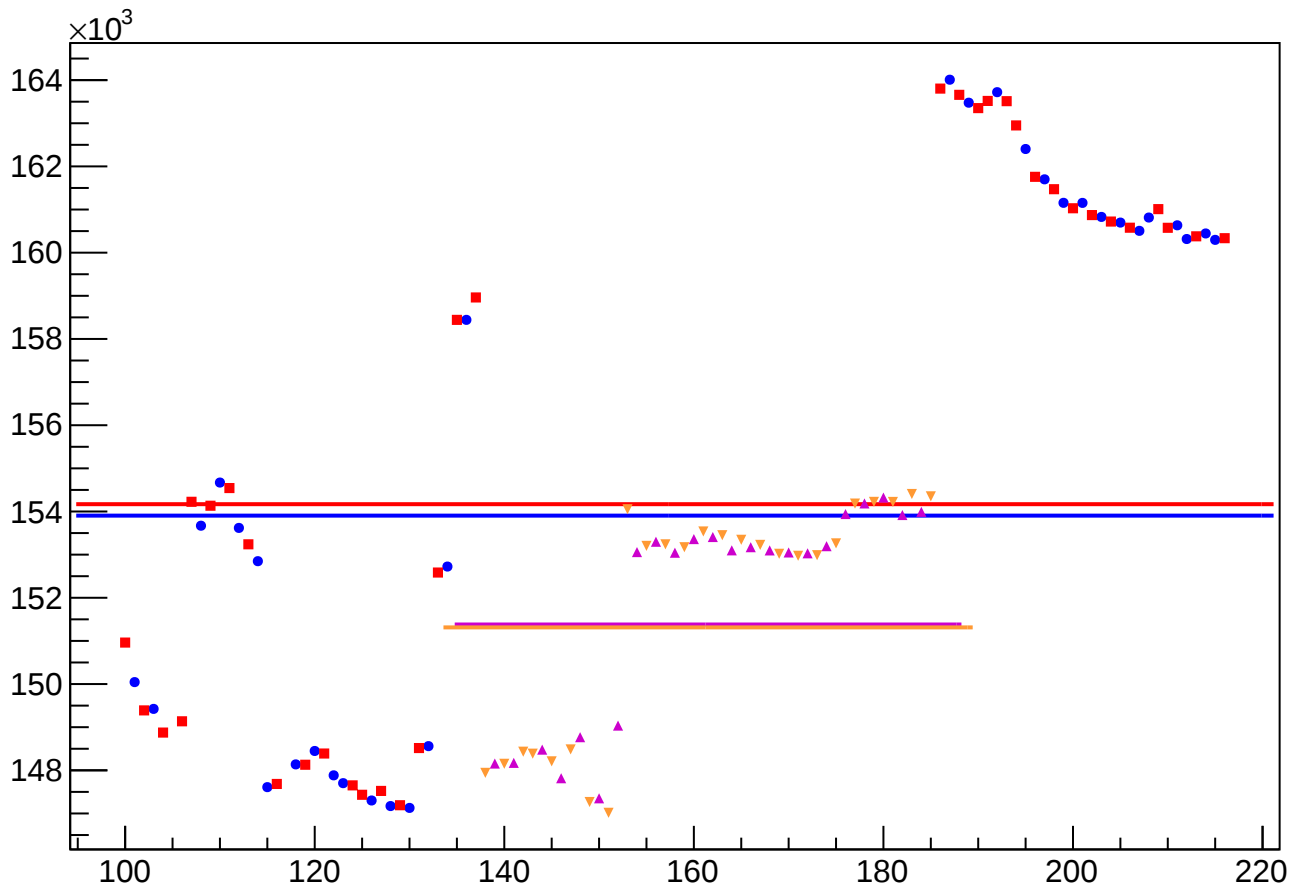
Right: 0.795+/-0.000 χ^2/NDF : 6869414.3/66

In: 0.805+/-0.000 χ^2/NDF : 3784222.3/54

Out: 0.796+/-0.000 χ^2/NDF : 4257427.1/59

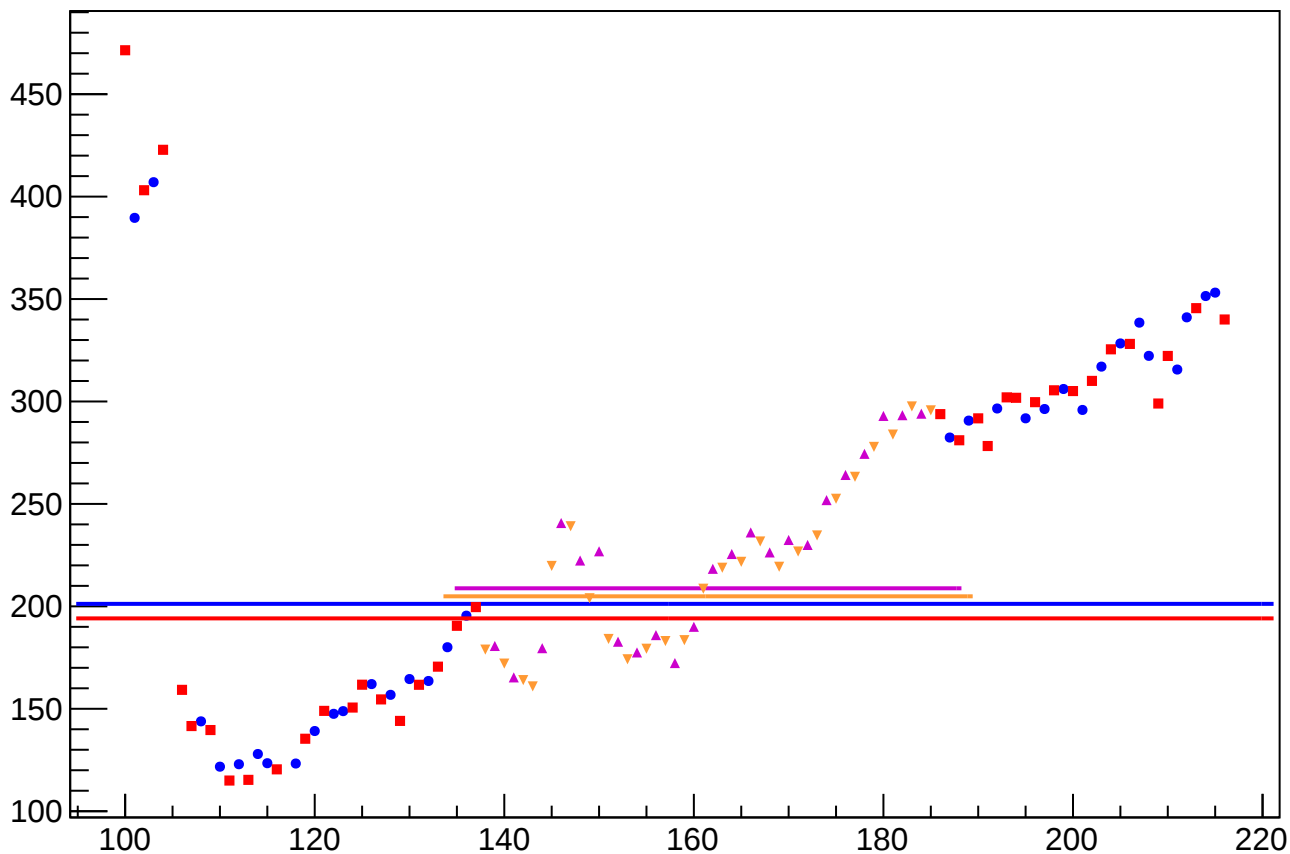
All: 0.801+/-0.000 χ^2/NDF : 8045331.2/114

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: 154043.149 $\pm$ 0.036	χ^2 /NDF: 24911820517.4
Right Out: 154169.595 $\pm$ 0.050	χ^2 /NDF: 12754686326.8/34	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: 152691.825 $\pm$ 0.035	χ^2 /NDF: 17569766066.6
		All: 152649.570 $\pm$ 0.025	χ^2 /NDF: 332585389

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 201.215+/-0.037 χ^2/NDF : 5161532.8/31

Left Out: 204.900+/-0.034 χ^2/NDF :1056380.8/24

Right Out: 194.123+/-0.036 χ^2/NDF : 5368714.9/34

Left In: 208.813+/-0.036 χ^2/NDF :1001936.6/22

Left: 206.758+/-0.025 χ^2/NDF : 2064453.9/47

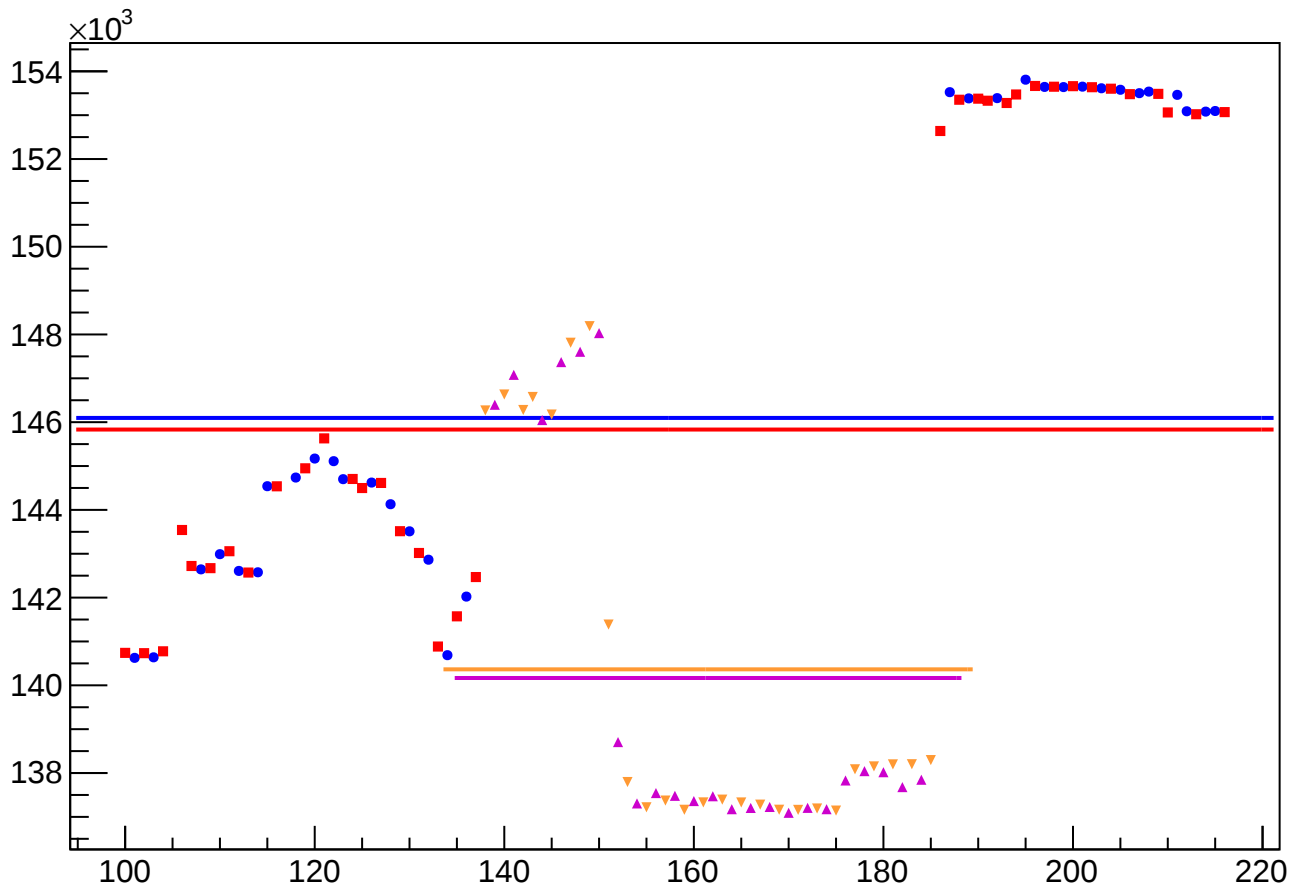
Right: 197.504+/-0.026 χ^2/NDF : 10549123.1/66

In: 205.132+/-0.026 χ^2/NDF :6184811.8/54

Out: 199.699+/-0.025 χ^2/NDF :6472391.6/59

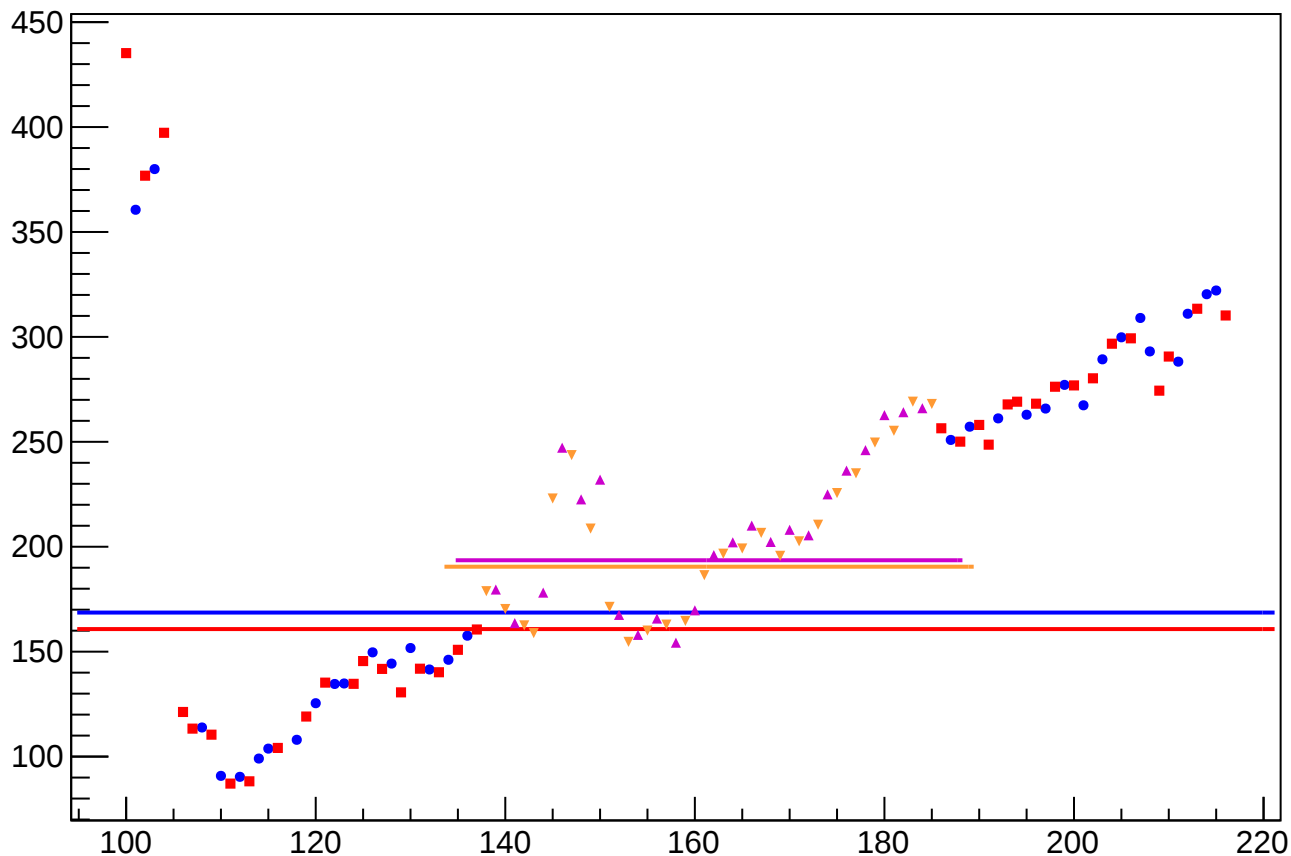
All: 202.284+/-0.018 χ^2/NDF : 12680115.4/11

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: 145956.325+/-0.031	χ^2/NDF : 21674491773.2
Right Out: 145831.987+/-0.042	χ^2/NDF : 11299614050.5/34	In: 143278.386+/-0.033	χ^2/NDF : 26579993920.8/5
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 143268.974+/-0.031	χ^2/NDF : 27743543792.1/5
		All: 143273.421+/-0.022	χ^2/NDF : 543235813

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 168.632 $\pm$ 0.032 χ^2/NDF : 6327704.9/31

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF : 950233.2/24

Right Out: 160.764 $\pm$ 0.030 χ^2/NDF : 6594262.9/34

Left In: 193.558 $\pm$ 0.034 χ^2/NDF : 963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2/NDF : 1918302.4/47

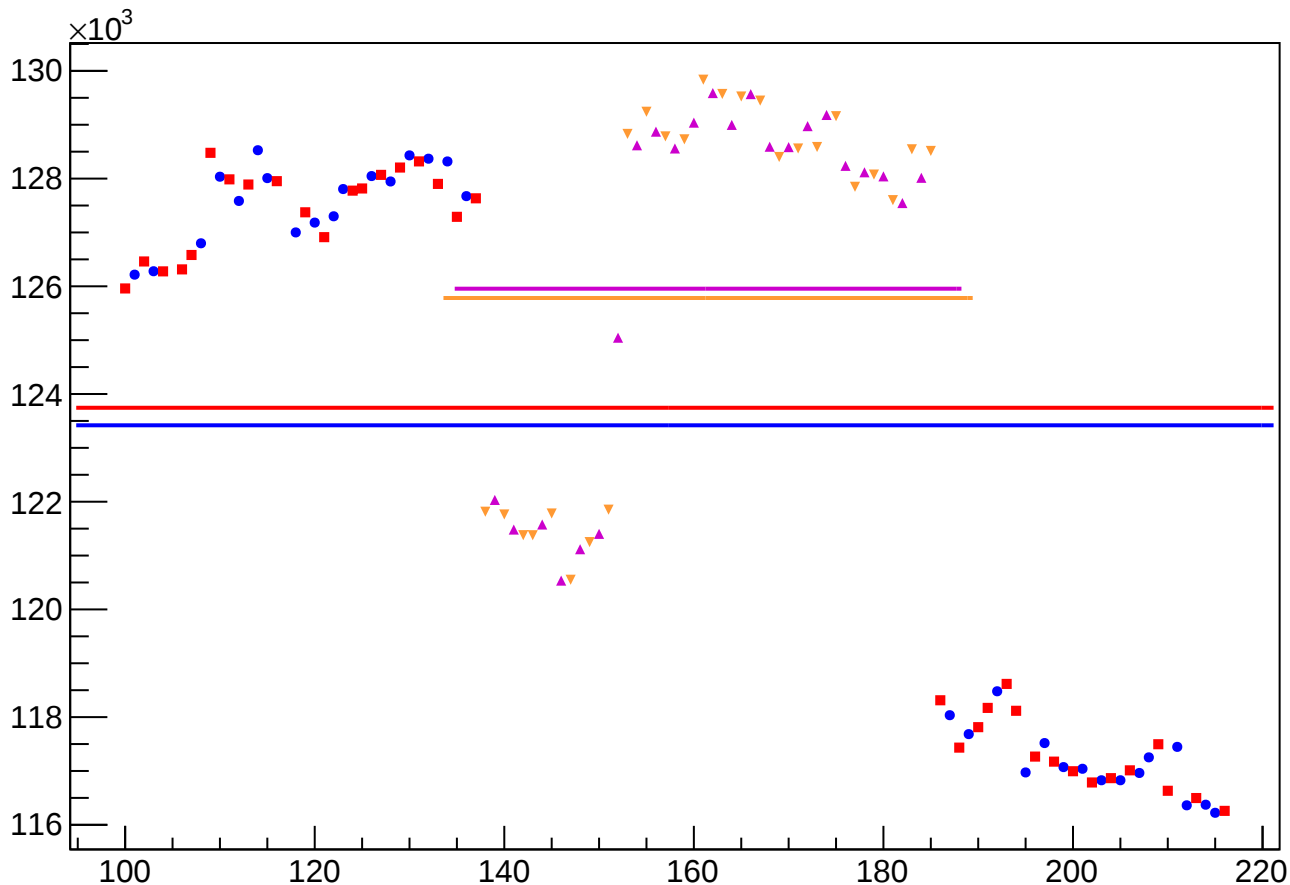
Right: 164.457 $\pm$ 0.022 χ^2/NDF : 12954182.7/66

In: 180.480 $\pm$ 0.023 χ^2/NDF : 7580967.7/54

Out: 174.697 $\pm$ 0.022 χ^2/NDF : 8003534.2/59

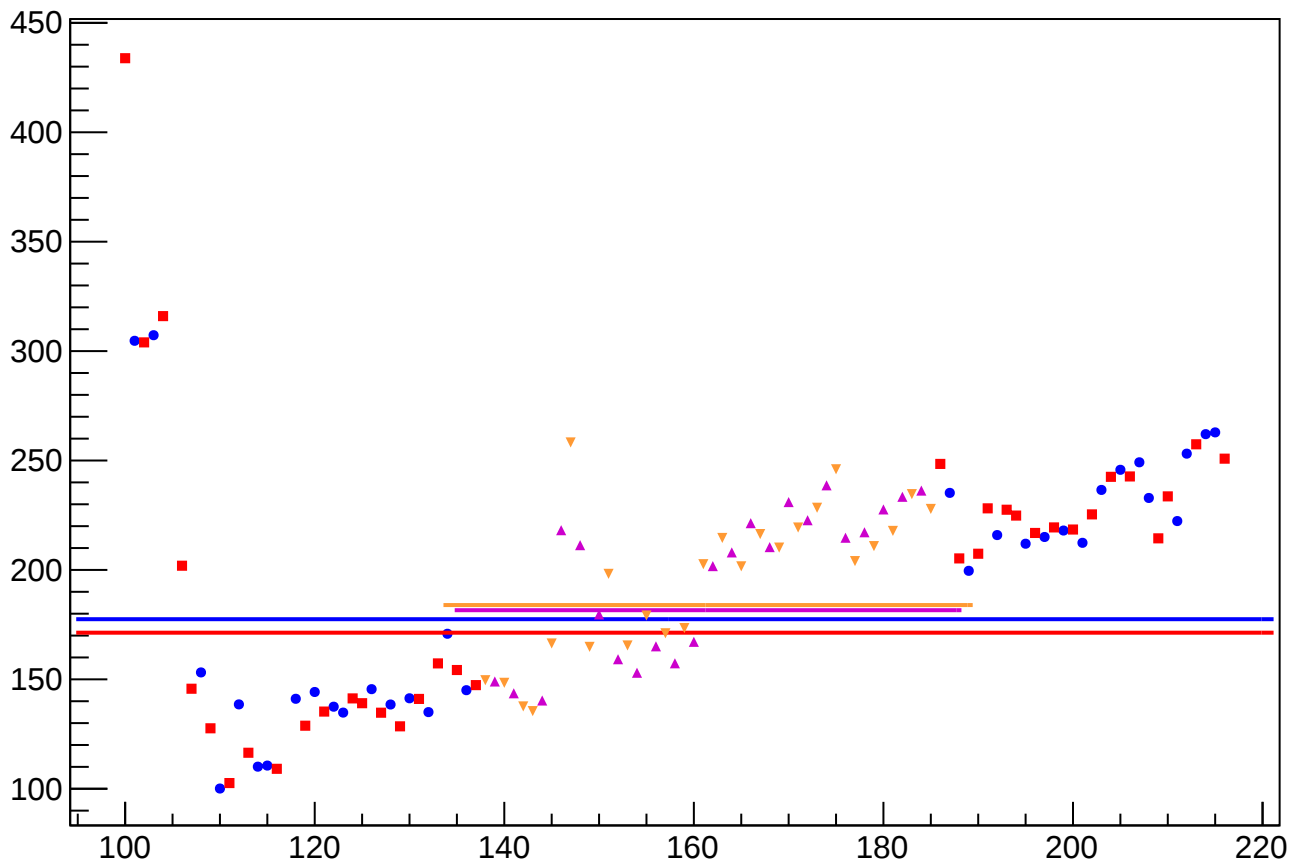
All: 177.429 $\pm$ 0.016 χ^2/NDF : 15617473.6/11

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: 123588.916 $\pm$ 0.031	χ^2 /NDF: 27678011856.6/24
Right Out: 123744.515 $\pm$ 0.043	χ^2 /NDF: 14125289235.9/34	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: 124737.356 $\pm$ 0.031	χ^2 /NDF: 21955501742.7/24
		All: 124713.386 $\pm$ 0.022	χ^2 /NDF: 428879805.1/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 177.485 $\pm$ 0.032 χ^2 /NDF: 2753728.6/31

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 171.317 $\pm$ 0.030 χ^2 /NDF: 3113653.1/34

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

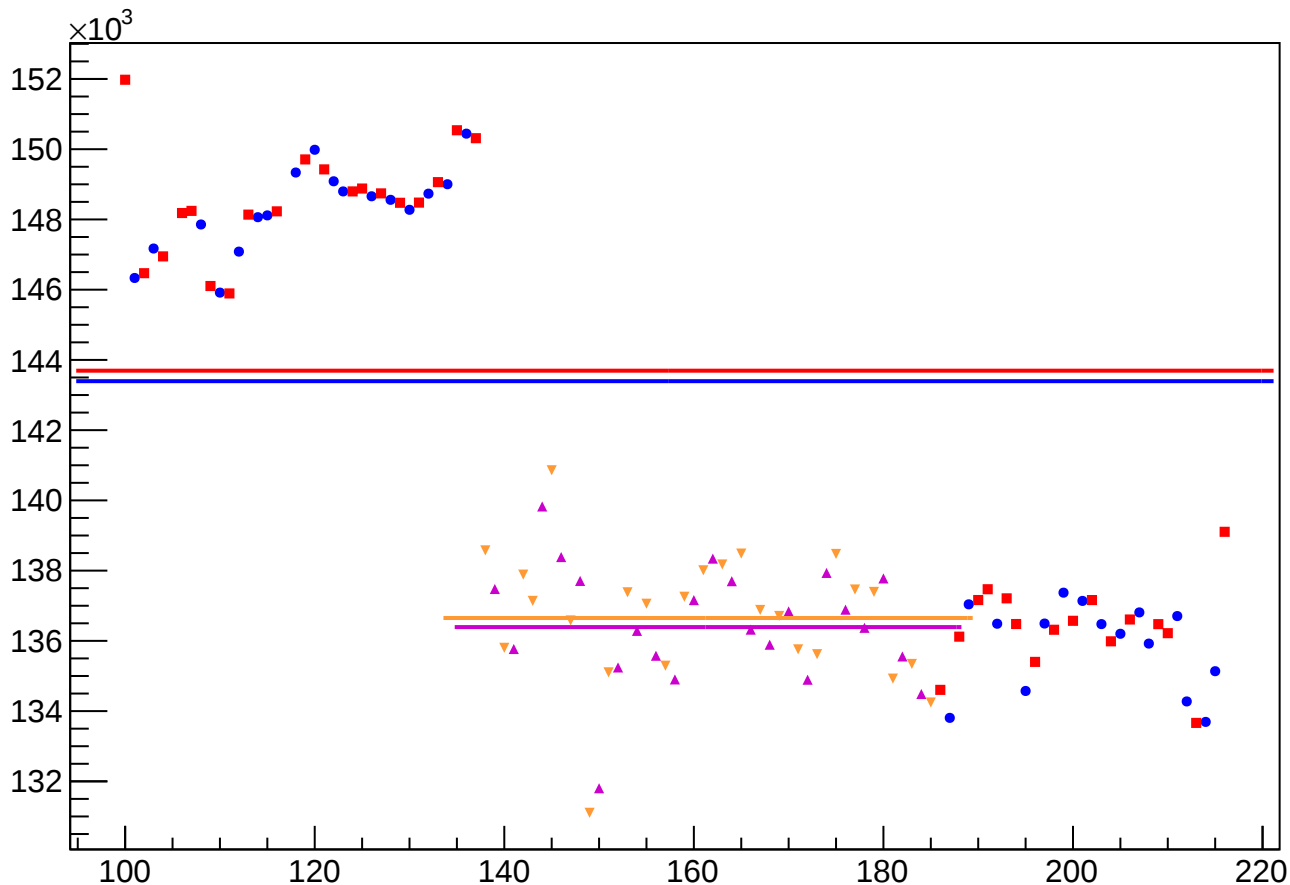
Right: 174.264 $\pm$ 0.022 χ^2 /NDF: 5887149.6/66

In: 179.541 $\pm$ 0.022 χ^2 /NDF: 3865667.8/54

Out: 177.469 $\pm$ 0.022 χ^2 /NDF: 4321347.6/59

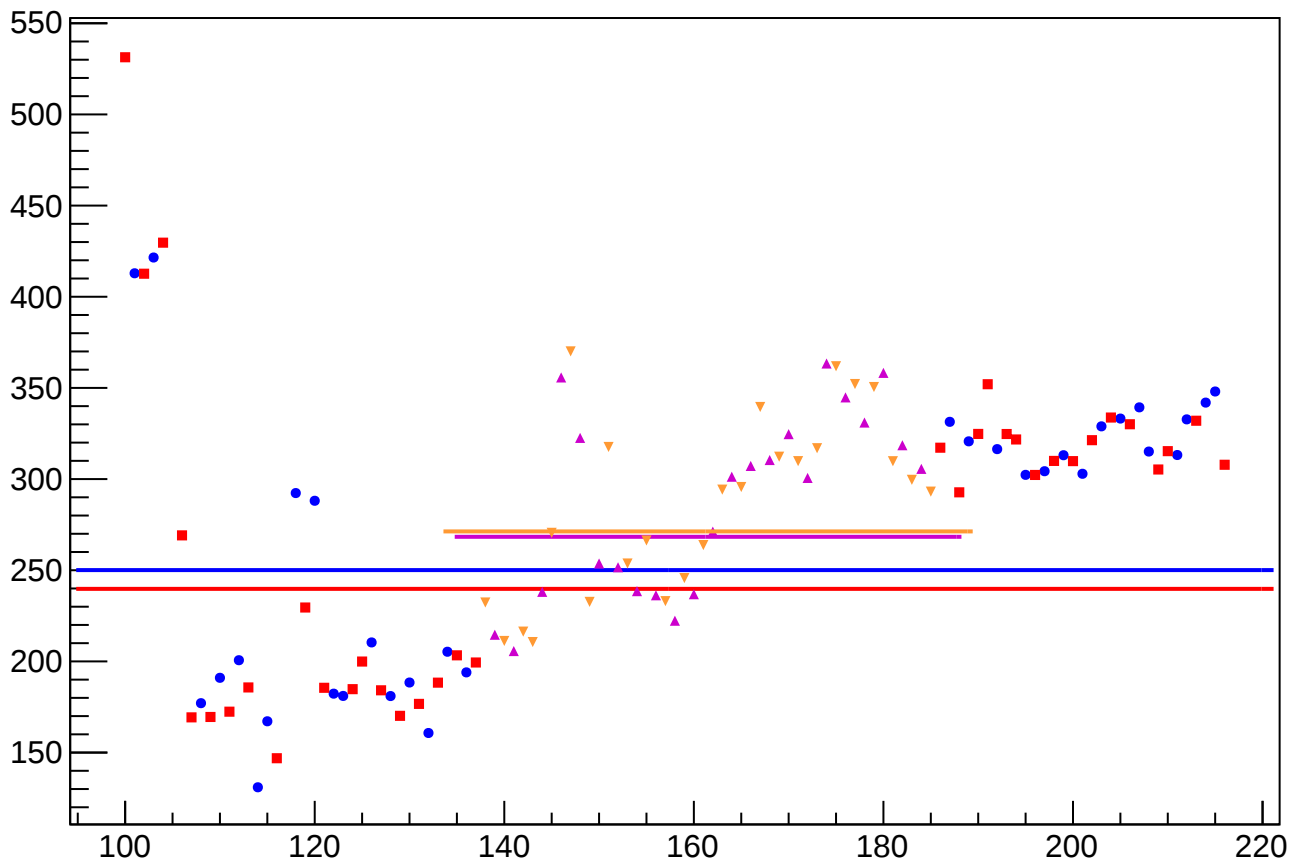
All: 178.473 $\pm$ 0.016 χ^2 /NDF: 8191424.7/114

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: 143551.894 $\pm$ 0.043	χ^2 /NDF: 19662430443.3
Right Out: 143693.482 $\pm$ 0.060	χ^2 /NDF: 9830109284.3/34	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: 140438.451 $\pm$ 0.044	χ^2 /NDF: 17147387480.4
		All: 140249.848 $\pm$ 0.032	χ^2 /NDF: 335886173

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 250.080 $\pm$ 0.045 χ^2 /NDF: 2739874.7/31

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 239.787 $\pm$ 0.042 χ^2 /NDF: 2904345.7/34

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

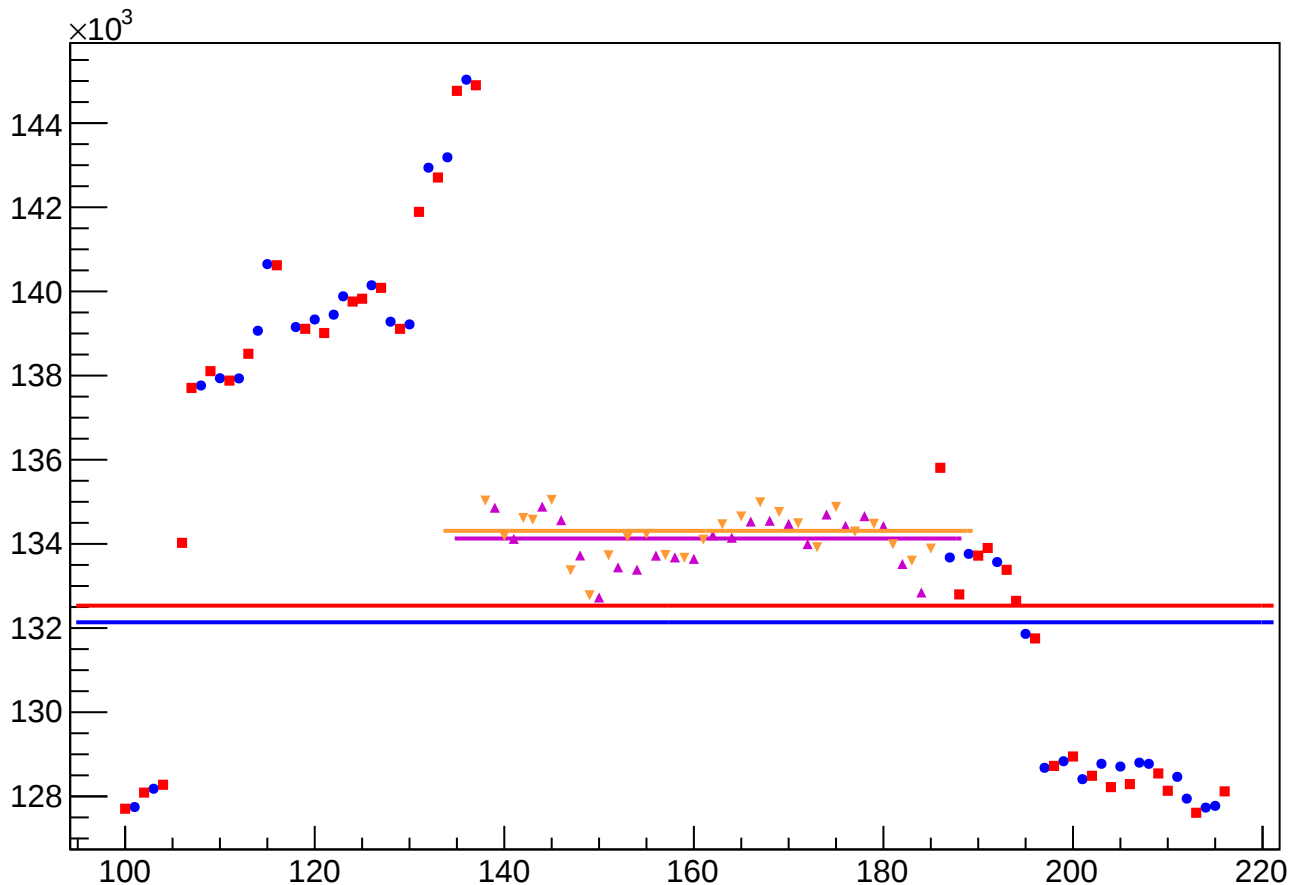
Right: 244.663 $\pm$ 0.031 χ^2 /NDF: 5672191.9/66

In: 258.812 $\pm$ 0.032 χ^2 /NDF:3897238.8/54

Out: 254.350 $\pm$ 0.031 χ^2 /NDF:4224510.1/59

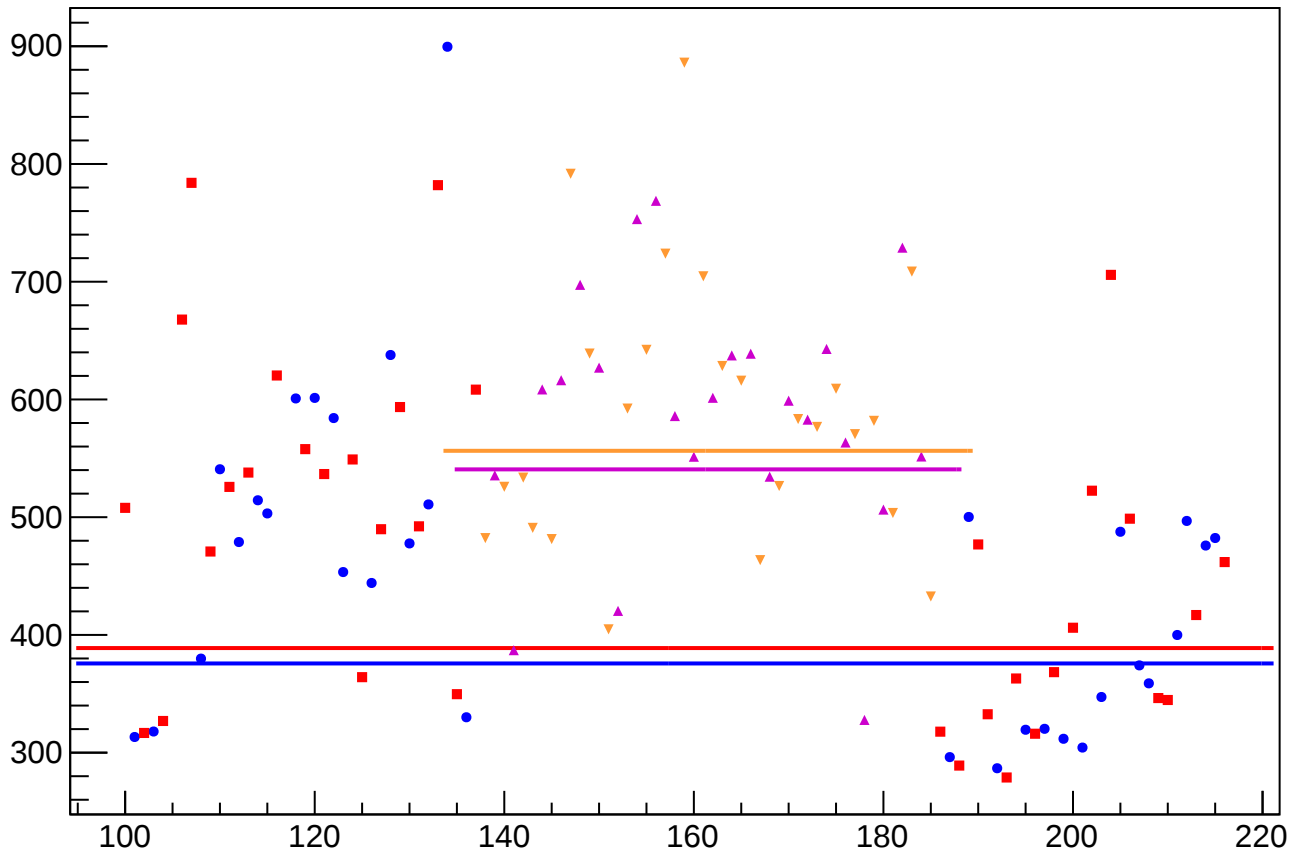
All: 256.498 $\pm$ 0.022 χ^2 /NDF: 8131679.5/114

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132137.151 ± 0.102	$\chi^2/\text{NDF}: 2785844251.3/31$	Left: 134221.438 ± 0.099	$\chi^2/\text{NDF}: 31894688.0/47$
Left Out: 134310.250 ± 0.139	$\chi^2/\text{NDF}: 15518632.9/24$	Right: 132328.569 ± 0.073	$\chi^2/\text{NDF}: 4780716856.0/7$
Right Out: 132532.789 ± 0.105	$\chi^2/\text{NDF}: 1987594105.0/34$	In: 132814.923 ± 0.083	$\chi^2/\text{NDF}: 2931072571.4/54$
Left In: 134128.172 ± 0.142	$\chi^2/\text{NDF}: 15533736.2/22$	Out: 133184.014 ± 0.084	$\chi^2/\text{NDF}: 2107387053.7/5$
		All: 132997.200 ± 0.059	$\chi^2/\text{NDF}: 504826259.0/100$

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 375.767 $\pm$ 0.072 χ^2/NDF : 1541486.2/31

Left Out: 556.381 $\pm$ 0.098 χ^2/NDF :1002064.0/24

Right Out: 388.841 $\pm$ 0.075 χ^2/NDF : 1967533.1/34

Left In: 540.607 $\pm$ 0.100 χ^2/NDF :1409015.2/22

Left: 548.687 $\pm$ 0.070 χ^2/NDF : 2423723.9/47

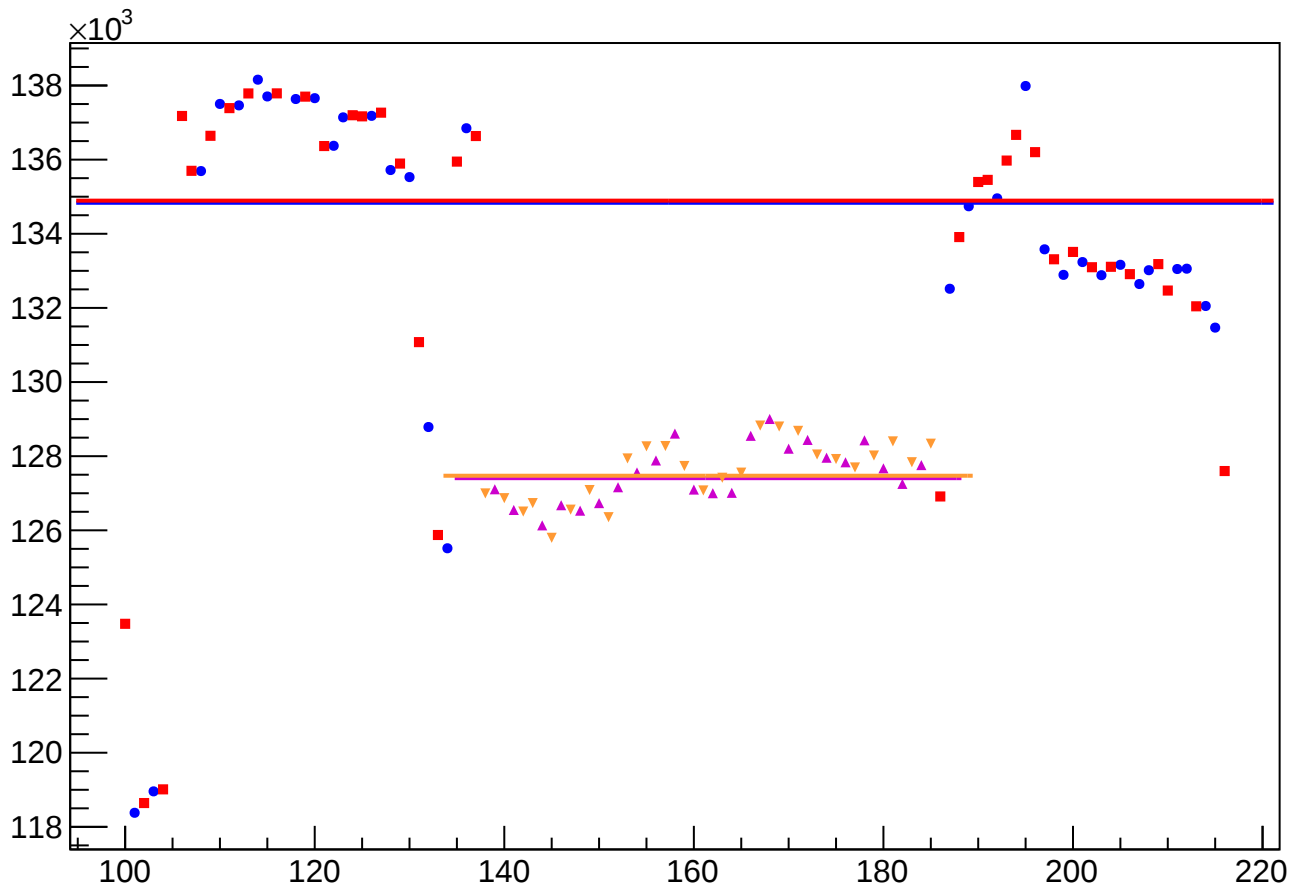
Right: 382.092 $\pm$ 0.052 χ^2/NDF : 3524916.0/66

In: 431.881 $\pm$ 0.059 χ^2/NDF :4728484.4/54

Out: 450.224 $\pm$ 0.059 χ^2/NDF :4822480.5/59

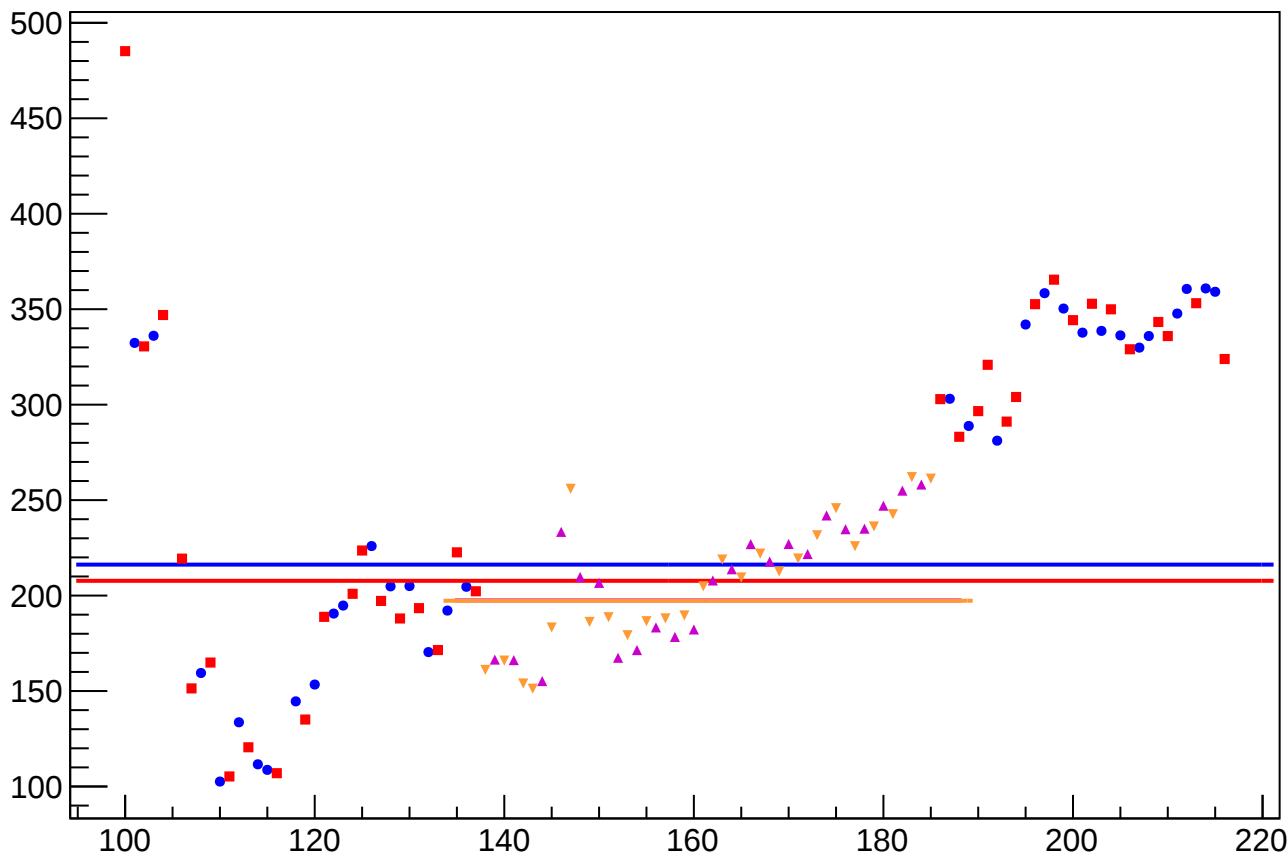
All: 440.940 $\pm$ 0.042 χ^2/NDF : 9599392.6/114

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: 134866.449+/-0.039	χ^2/NDF : 10677664322.0/31
Right Out: 134893.695+/-0.054	χ^2/NDF : 5660529429.2/34	In: 130522.171+/-0.037	χ^2/NDF : 15181574433.5/50
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130651.731+/-0.035	χ^2/NDF : 16710584682.0/31
		All: 130589.512+/-0.026	χ^2/NDF : 318985826.0/31

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: 207.735 $\pm$ 0.038 χ^2 /NDF: 5448639.5/34

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

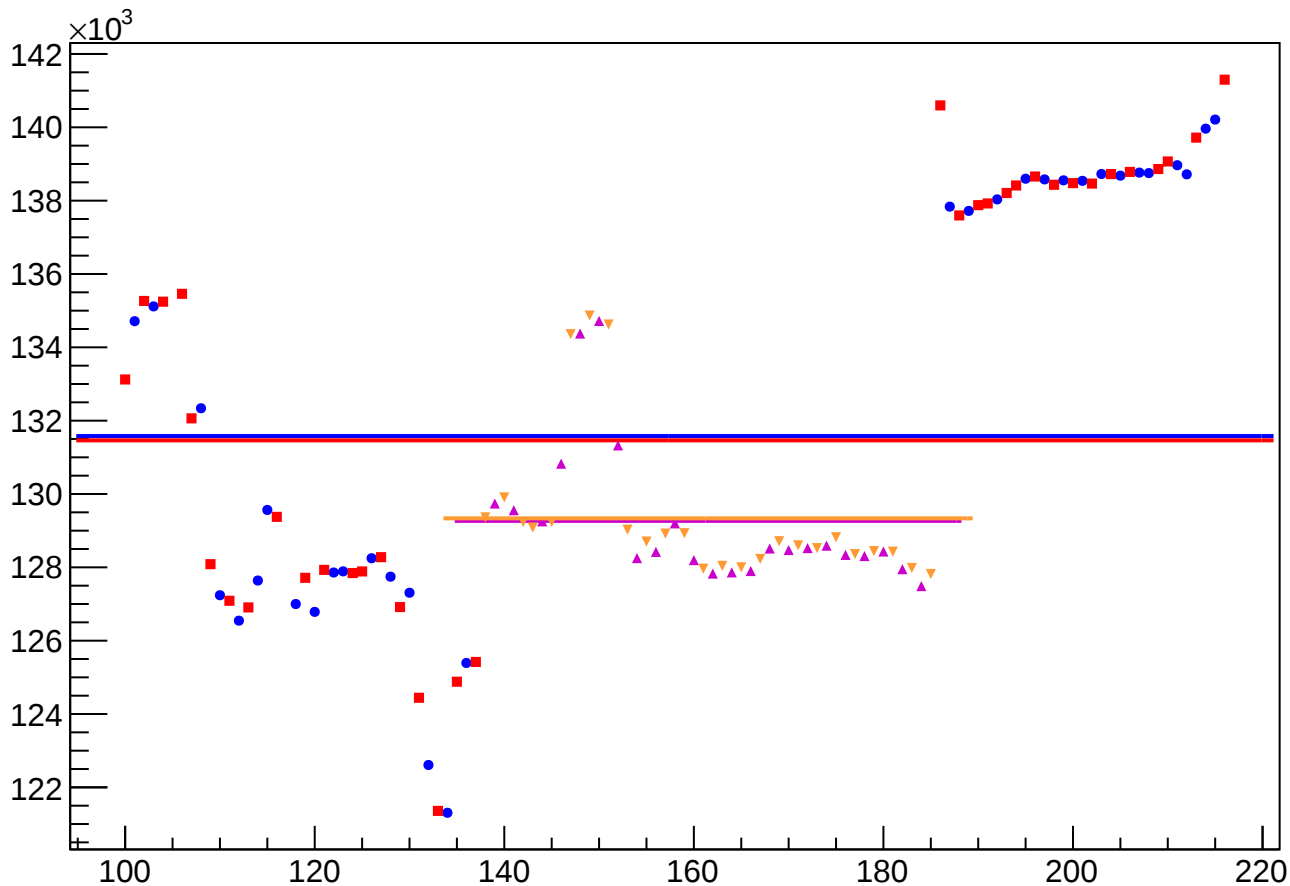
Right: 211.764 $\pm$ 0.028 χ^2 /NDF: 10595734.1/66

In: 205.332 $\pm$ 0.026 χ^2 /NDF: 6041357.2/54

Out: 201.764 $\pm$ 0.025 χ^2 /NDF: 6343242.4/59

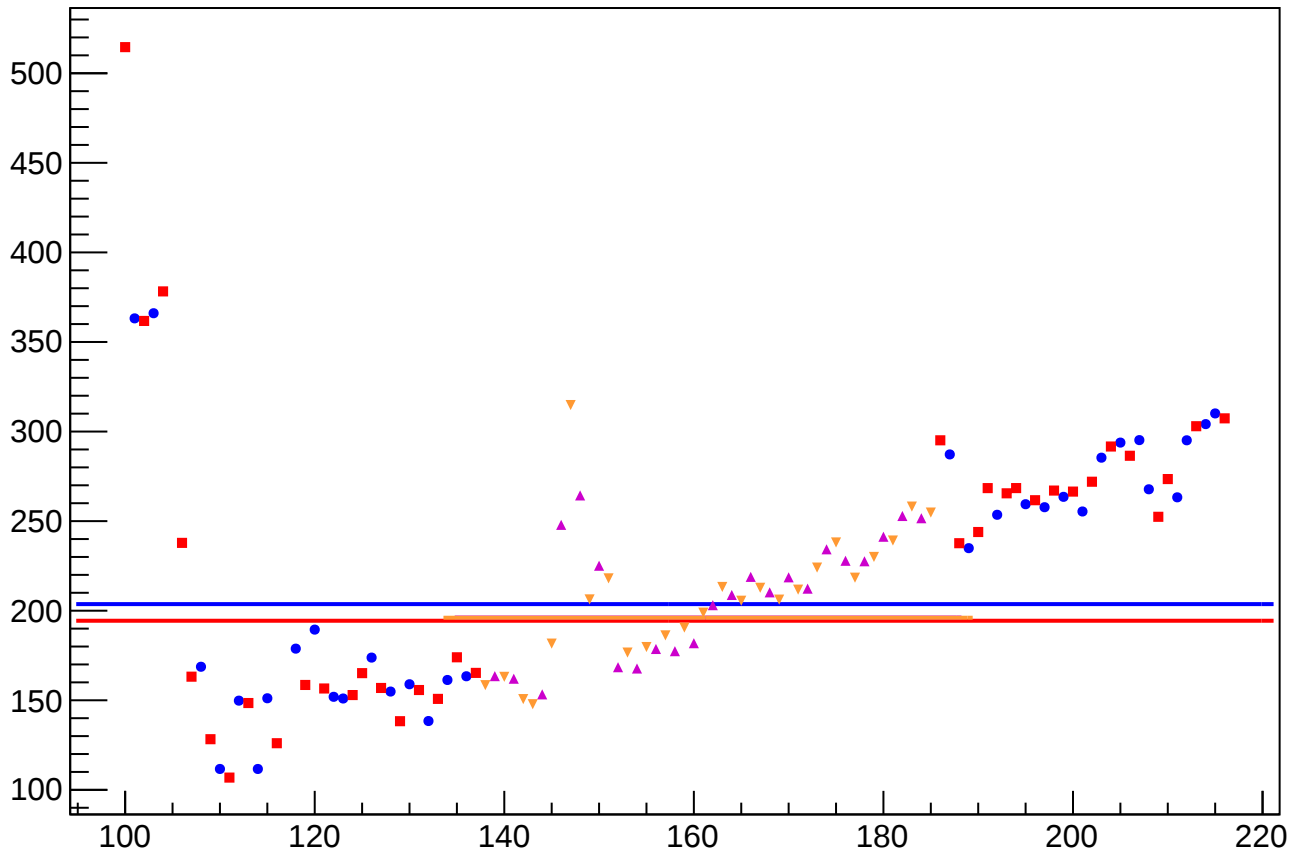
All: 203.478 $\pm$ 0.018 χ^2 /NDF: 12394345.2/11

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131580.188 $\pm$ 0.052 χ^2 /NDF: 13576127406.8/31
 Left Out: 129335.946 $\pm$ 0.047 χ^2 /NDF: 1450933621.0/24
 Right Out: 131463.466 $\pm$ 0.049 χ^2 /NDF: 14159846423.3/34
 Left In: 129266.909 $\pm$ 0.048 χ^2 /NDF: 1213762773.1/22
 Left: 129302.466 $\pm$ 0.034 χ^2 /NDF: 2665755007.2/4
 Right: 131518.751 $\pm$ 0.036 χ^2 /NDF: 27738624067.4
 In: 130334.480 $\pm$ 0.035 χ^2 /NDF: 15854892174.7/5
 Out: 130341.778 $\pm$ 0.034 χ^2 /NDF: 16590861905.8
 All: 130338.277 $\pm$ 0.024 χ^2 /NDF: 324457762

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: 194.397+/-0.035 χ^2/NDF : 3785664.5/34

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

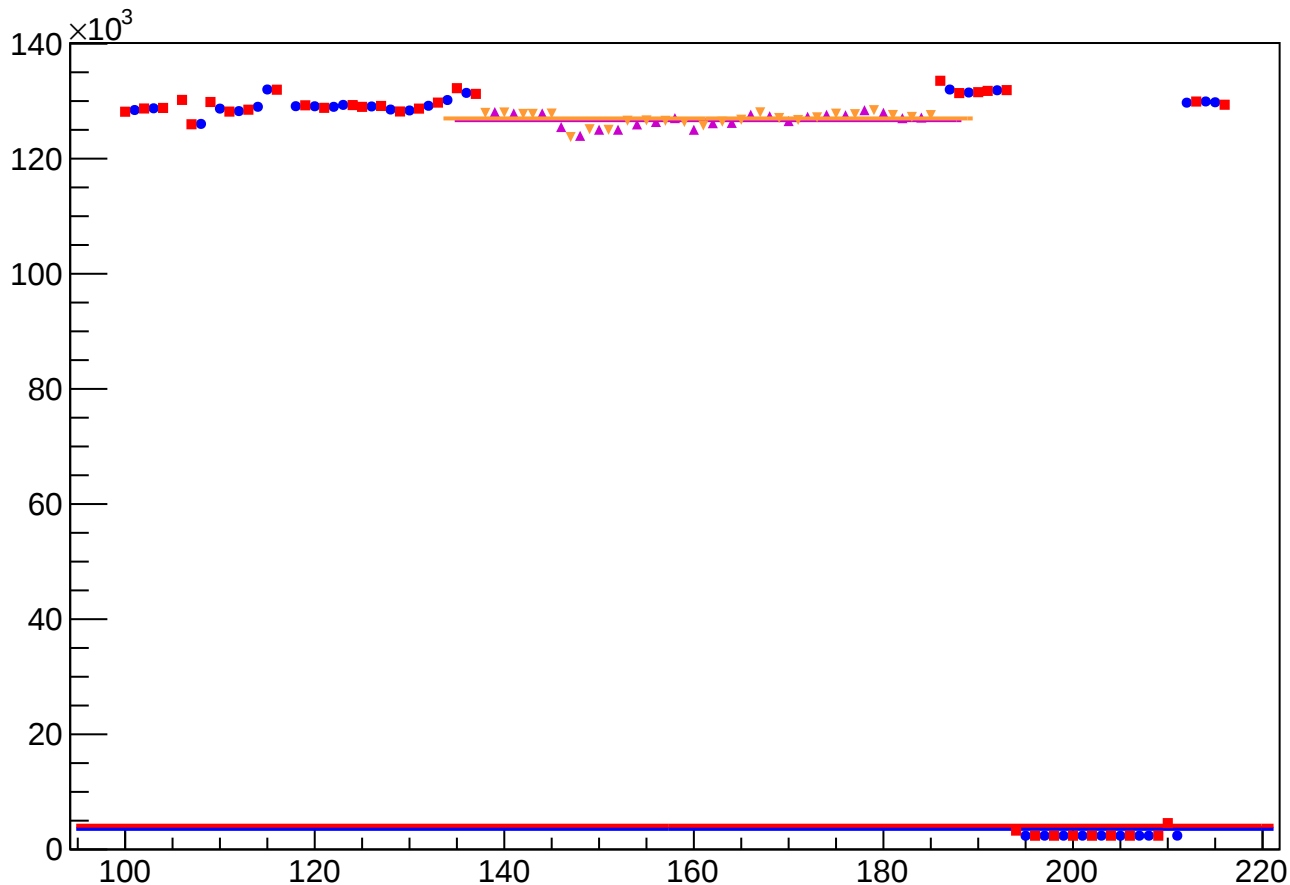
Right: 198.794+/-0.025 χ^2/NDF : 7057882.6/66

In: 199.645+/-0.025 χ^2/NDF : 4159100.8/54

Out: 195.283+/-0.024 χ^2/NDF : 4762598.5/59

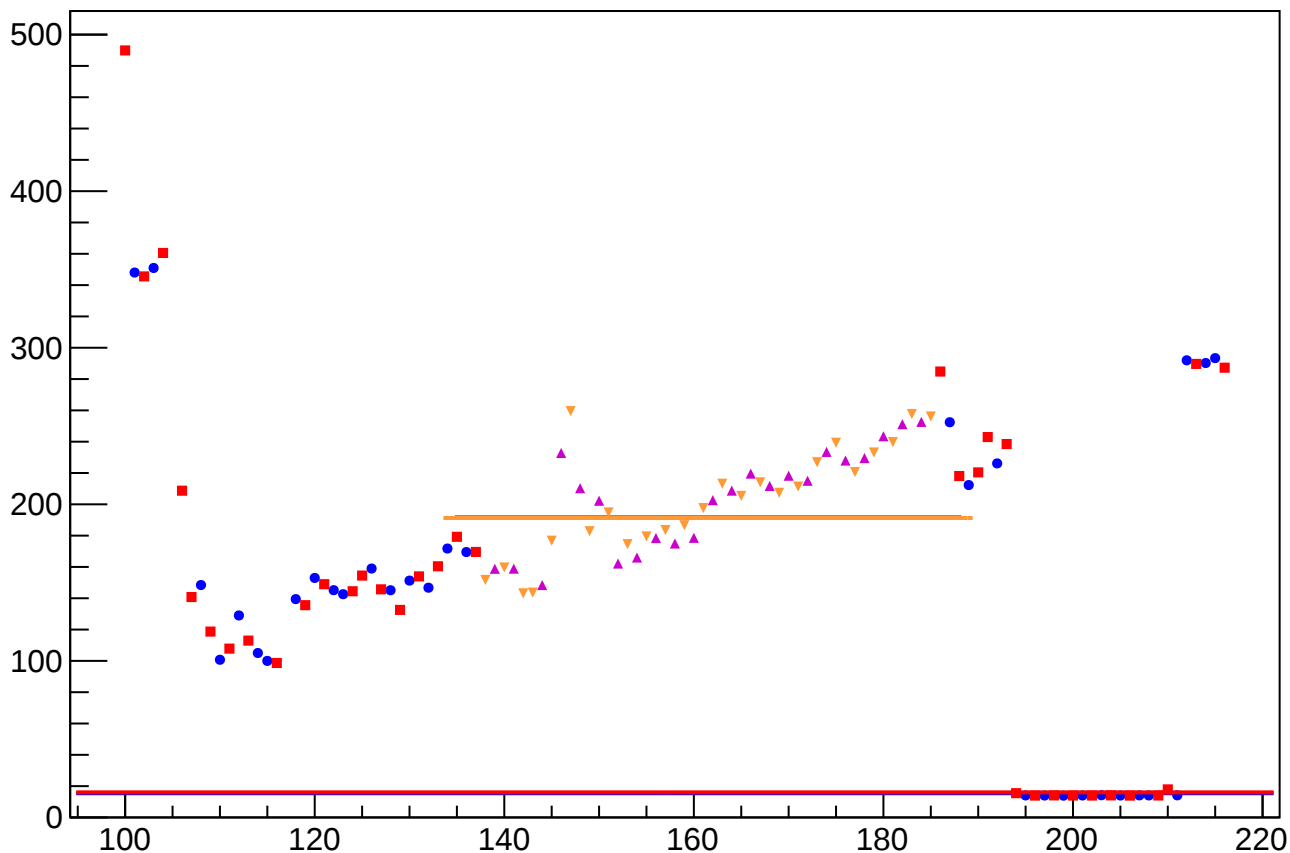
All: 197.375+/-0.017 χ^2/NDF : 8937556.3/114

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: 4123.998 $\pm$ 0.006 χ^2 /NDF: 6071983998928.8/34
 Left In: 126682.659 $\pm$ 0.047 χ^2 /NDF: 660415880.0/22
 Left: 126836.943 $\pm$ 0.033 χ^2 /NDF: 1211882944.2/4
 Right: 3825.251 $\pm$ 0.004 χ^2 /NDF: 11371678785641
 In: 5131.597 $\pm$ 0.005 χ^2 /NDF: 12071508959618.0
 Out: 6117.973 $\pm$ 0.006 χ^2 /NDF: 13237974488893.0
 All: 5578.450 $\pm$ 0.004 χ^2 /NDF: 25325306158

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: 16.031+/-0.004 χ^2/NDF : 18046813.0/34

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

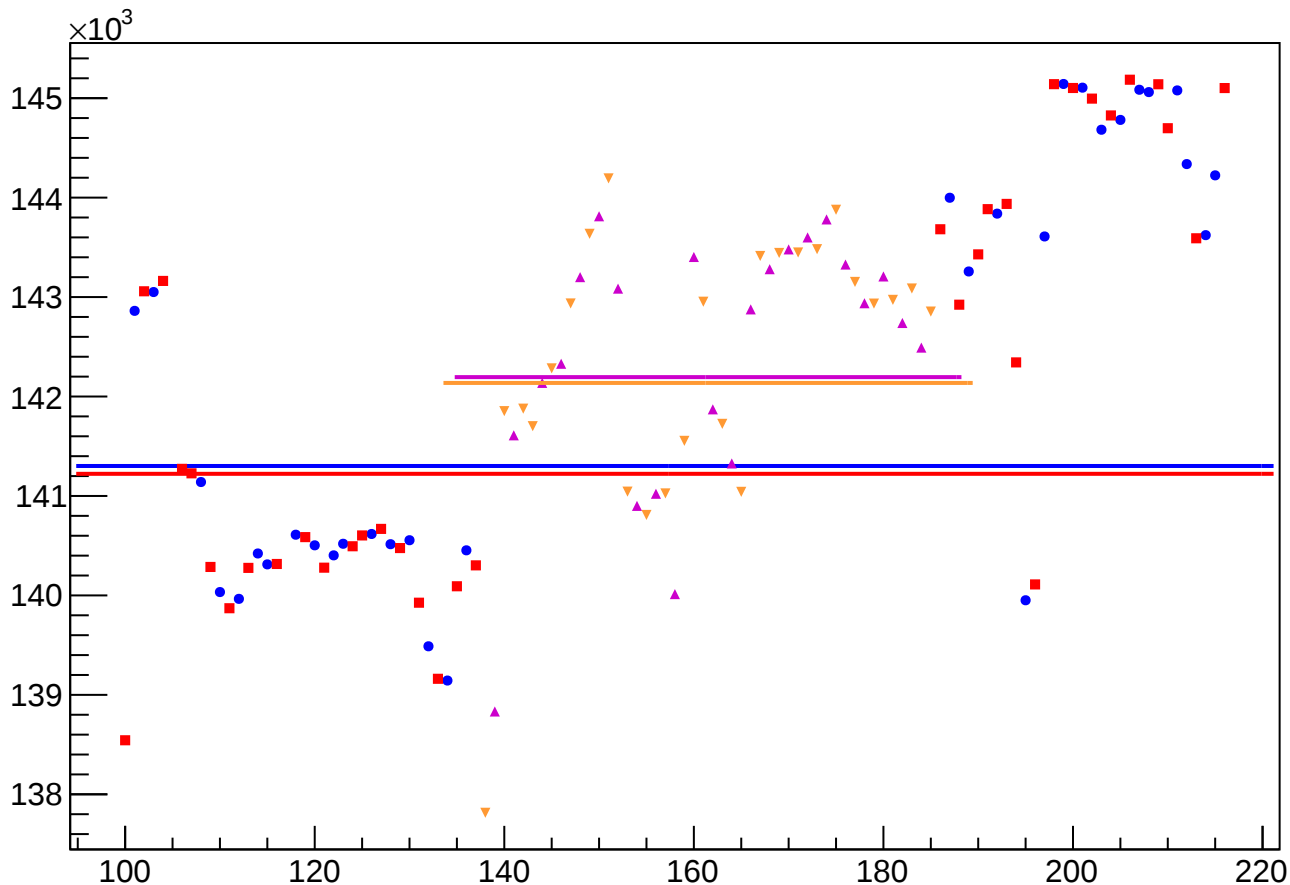
Right: 15.722+/-0.003 χ^2/NDF : 35248690.2/66

In: 17.691+/-0.004 χ^2/NDF : 45823759.3/54

Out: 18.875+/-0.004 χ^2/NDF : 48193305.8/59

All: 18.227+/-0.003 χ^2/NDF : 94062685.6/114

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

Right: 141259.398 $\pm$ 0.038

χ^2 /NDF: 2095685129.5/4

Left Out: 142136.579 $\pm$ 0.052

χ^2 /NDF: 815573343.0/24

In: 141760.752 $\pm$ 0.039

χ^2 /NDF: 1792674818.7/54

Right Out: 141222.692 $\pm$ 0.052

χ^2 /NDF: 1079708164.6/34

Out: 141674.298 $\pm$ 0.037

χ^2 /NDF: 2049584475.2/54

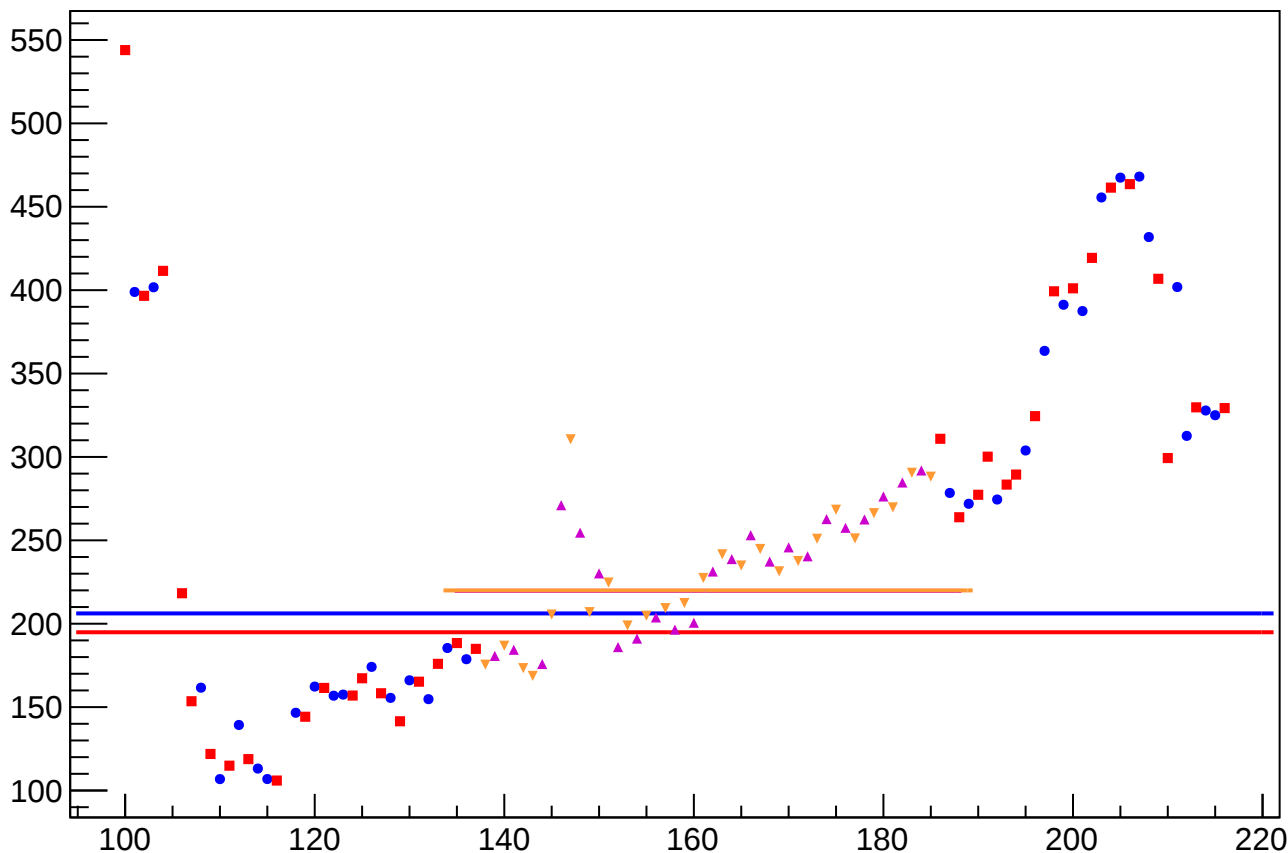
Left In: 142195.020 $\pm$ 0.054

χ^2 /NDF: 644030906.9/22

All: 141715.425 $\pm$ 0.027

χ^2 /NDF: 384488731.0/100

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: 194.883+/-0.037 χ^2/NDF : 6659252.9/34

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

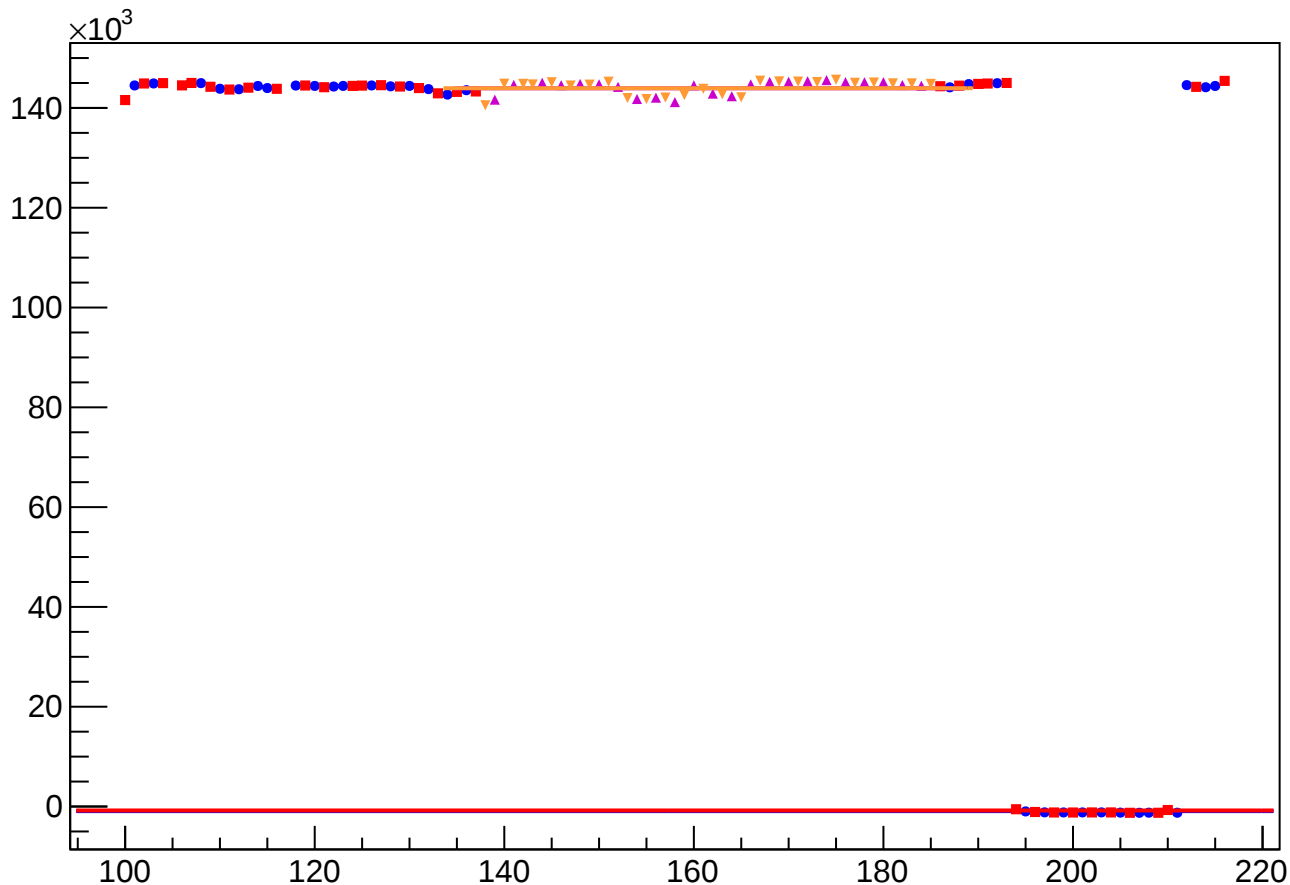
Right: 200.143+/-0.027 χ^2/NDF : 13121784.5/66

In: 213.119+/-0.027 χ^2/NDF : 7292009.1/54

Out: 207.280+/-0.026 χ^2/NDF : 7758397.8/59

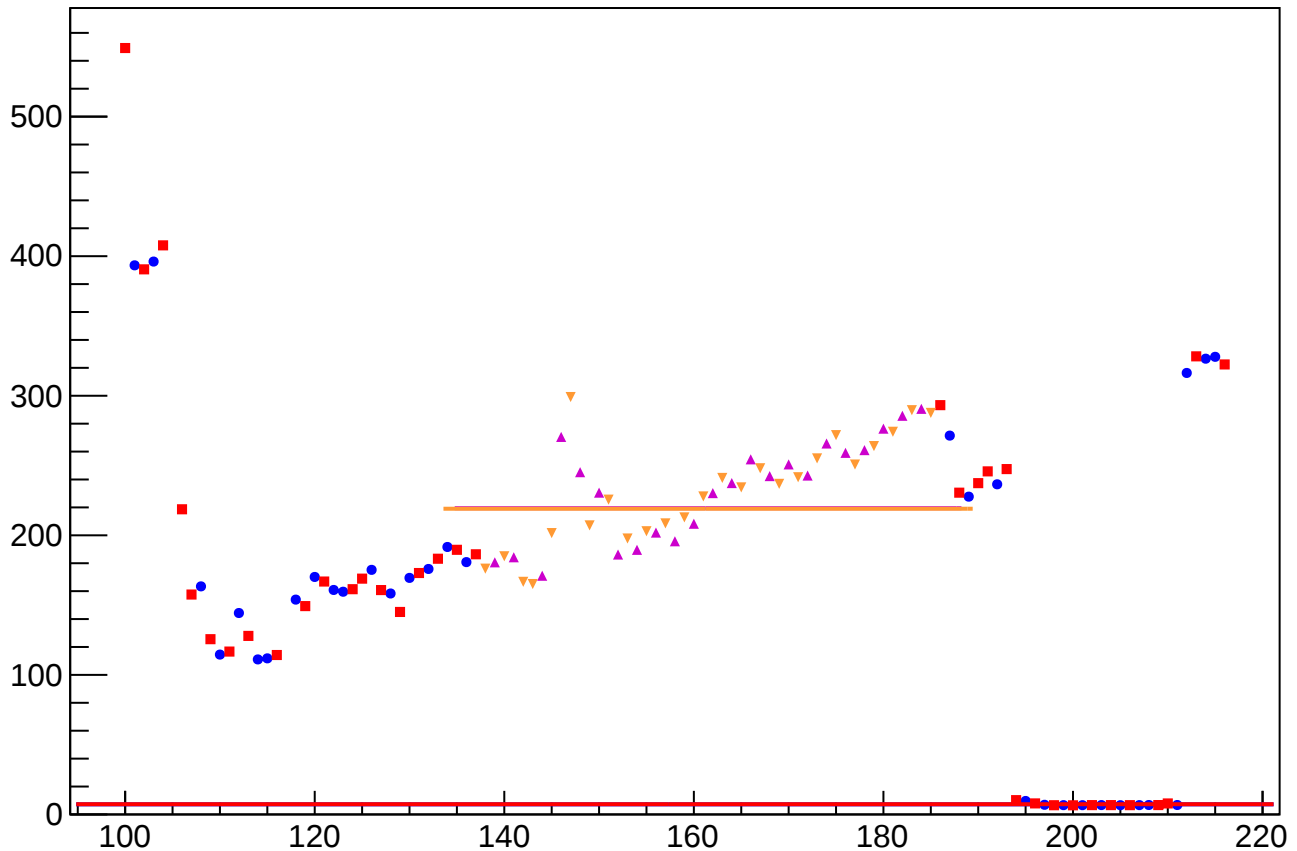
All: 210.058+/-0.019 χ^2/NDF : 15074384.6/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -919.741 ± 0.003 $\chi^2/\text{NDF}: 5736936268228.3/31$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -792.443 ± 0.003 $\chi^2/\text{NDF}: 6677526517084.5/34$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 All: -471.065 ± 0.002 $\chi^2/\text{NDF}: 27324794542$

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: 7.337 $\pm$ 0.002 χ^2 /NDF: 20094470.6/34

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

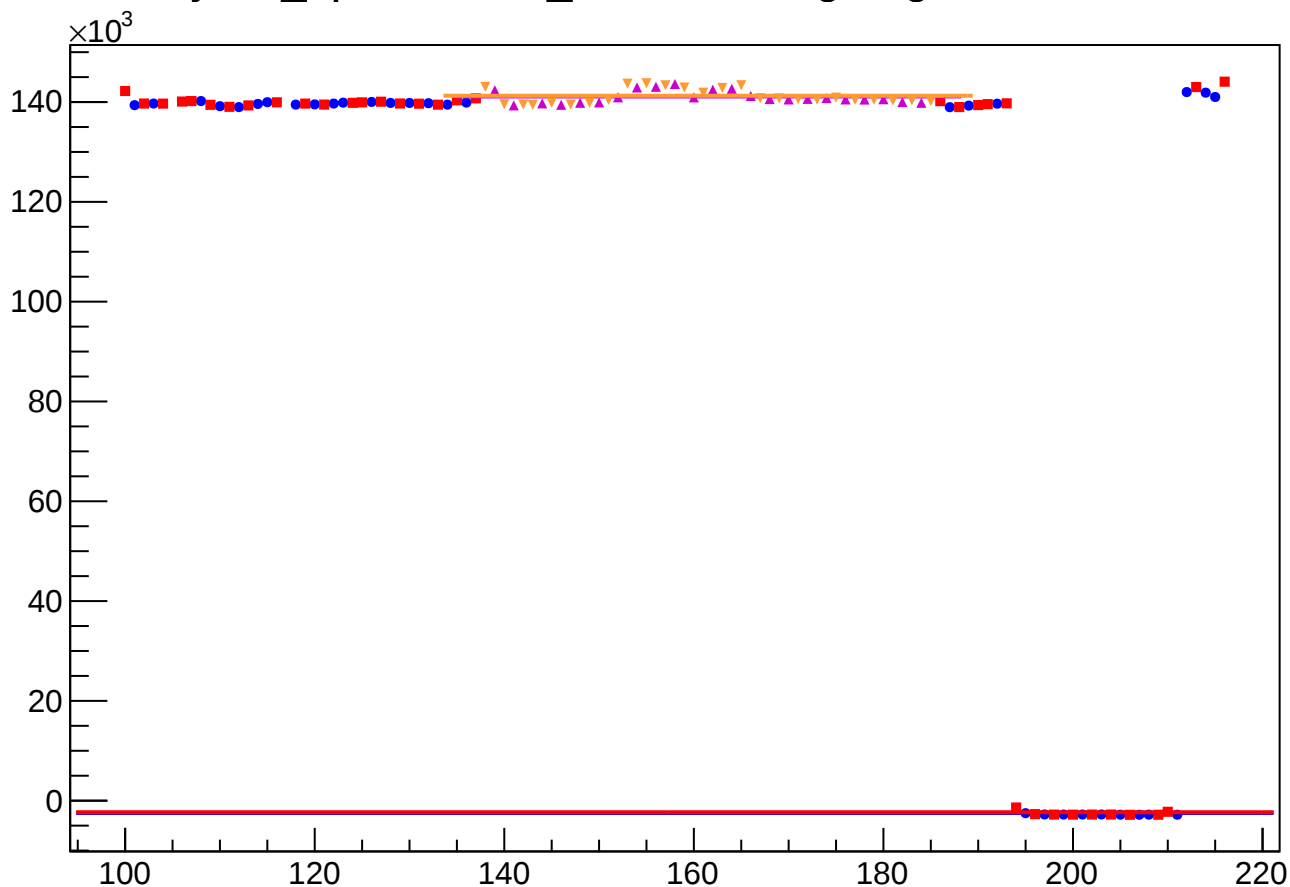
Right: 7.283 $\pm$ 0.001 χ^2 /NDF: 39168331.9/66

In: 7.745 $\pm$ 0.002 χ^2 /NDF: 50911397.9/54

Out: 7.987 $\pm$ 0.002 χ^2 /NDF: 53907774.5/59

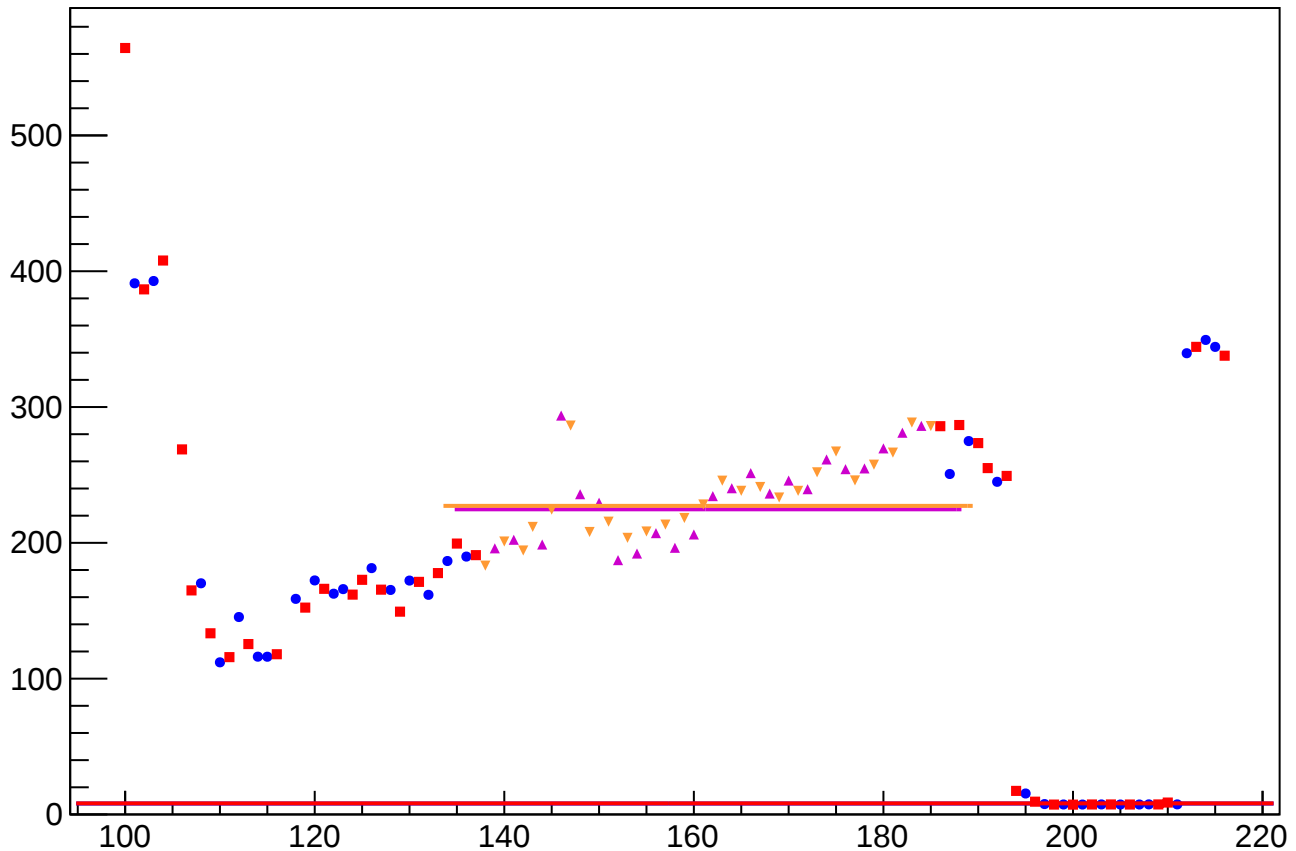
All: 7.855 $\pm$ 0.001 χ^2 /NDF: 104826885.3/114

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: -2395.328 $\pm$ 0.002	χ^2 /NDF: 1128854219022.0/3
Right Out: -2318.613 $\pm$ 0.003	χ^2 /NDF: 6041947629939.4/34	In: -2045.891 $\pm$ 0.003	χ^2 /NDF: 12062383981366.3/1
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1797.905 $\pm$ 0.003	χ^2 /NDF: 13166726160315.0/1
		All: -1933.446 $\pm$ 0.002	χ^2 /NDF: 2523232445.0/1

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.034 ± 0.002 χ^2/NDF : 19208002.3/31

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.164 ± 0.002 χ^2/NDF : 20125691.7/34

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

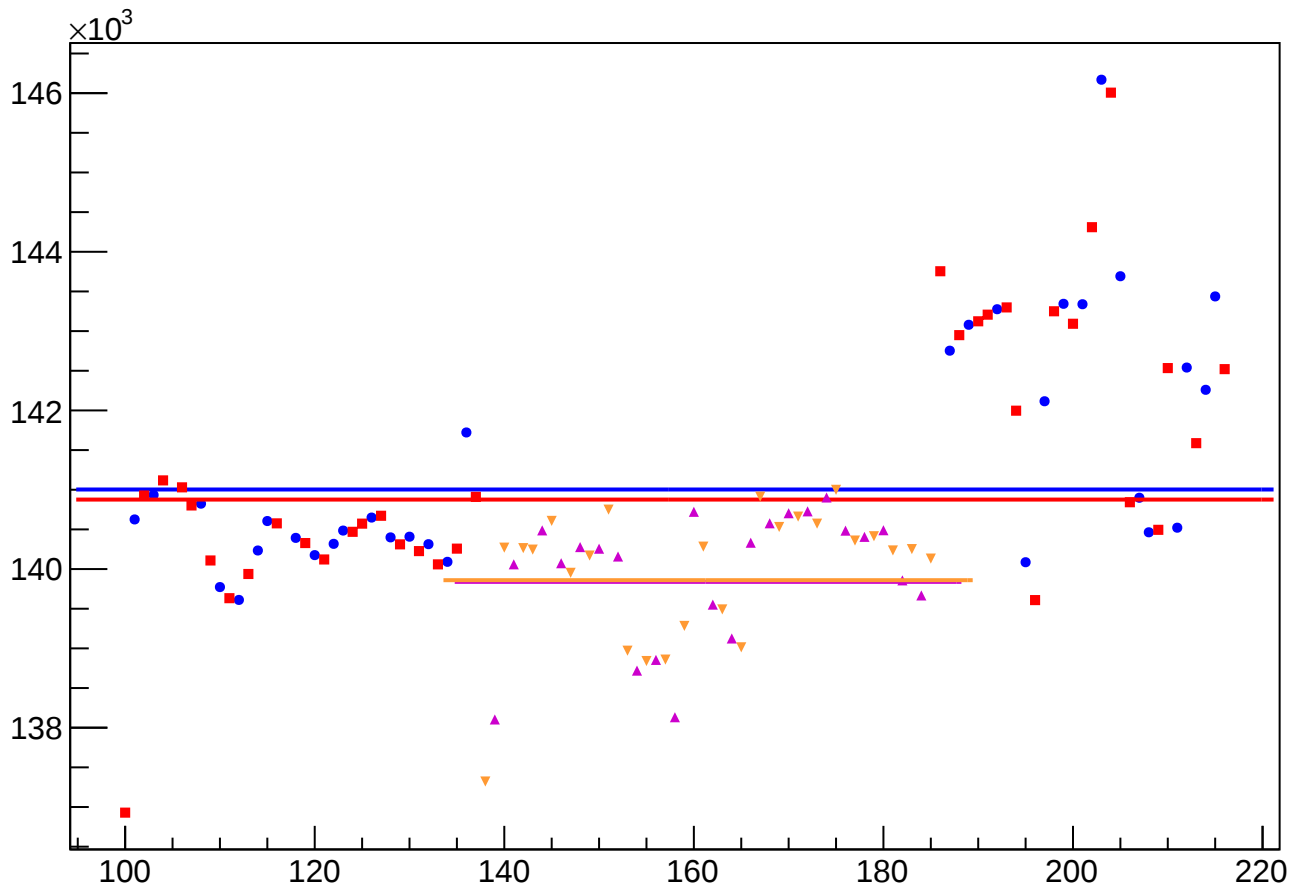
Right: 8.093 ± 0.002 χ^2/NDF : 39335439.1/66

In: 8.658 ± 0.002 χ^2/NDF : 50826428.5/54

Out: 8.958 ± 0.002 χ^2/NDF : 53773141.0/59

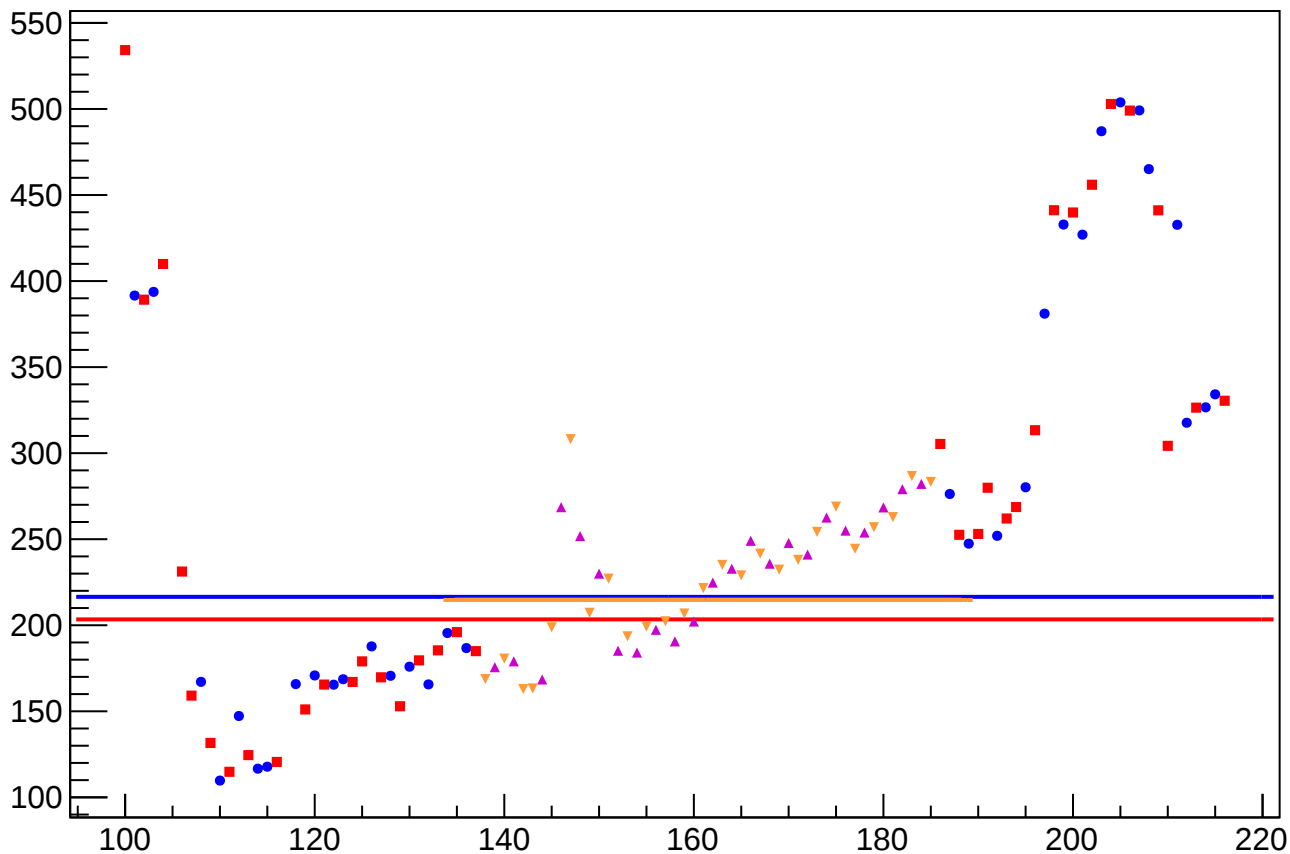
All: 8.794 ± 0.002 χ^2/NDF : 104609014.2/114

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: 609773442.9/41
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 140934.680 $\pm$ 0.039	χ^2 /NDF: 1046183774.3/31
Right Out: 140876.034 $\pm$ 0.054	χ^2 /NDF: 545842590.1/34	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: 140343.161 $\pm$ 0.037	χ^2 /NDF: 1064157418.2/54
		All: 140354.447 $\pm$ 0.027	χ^2 /NDF: 206233030.1/100

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: 203.411 $\pm$ 0.038 χ^2/NDF : 6236429.0/34

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

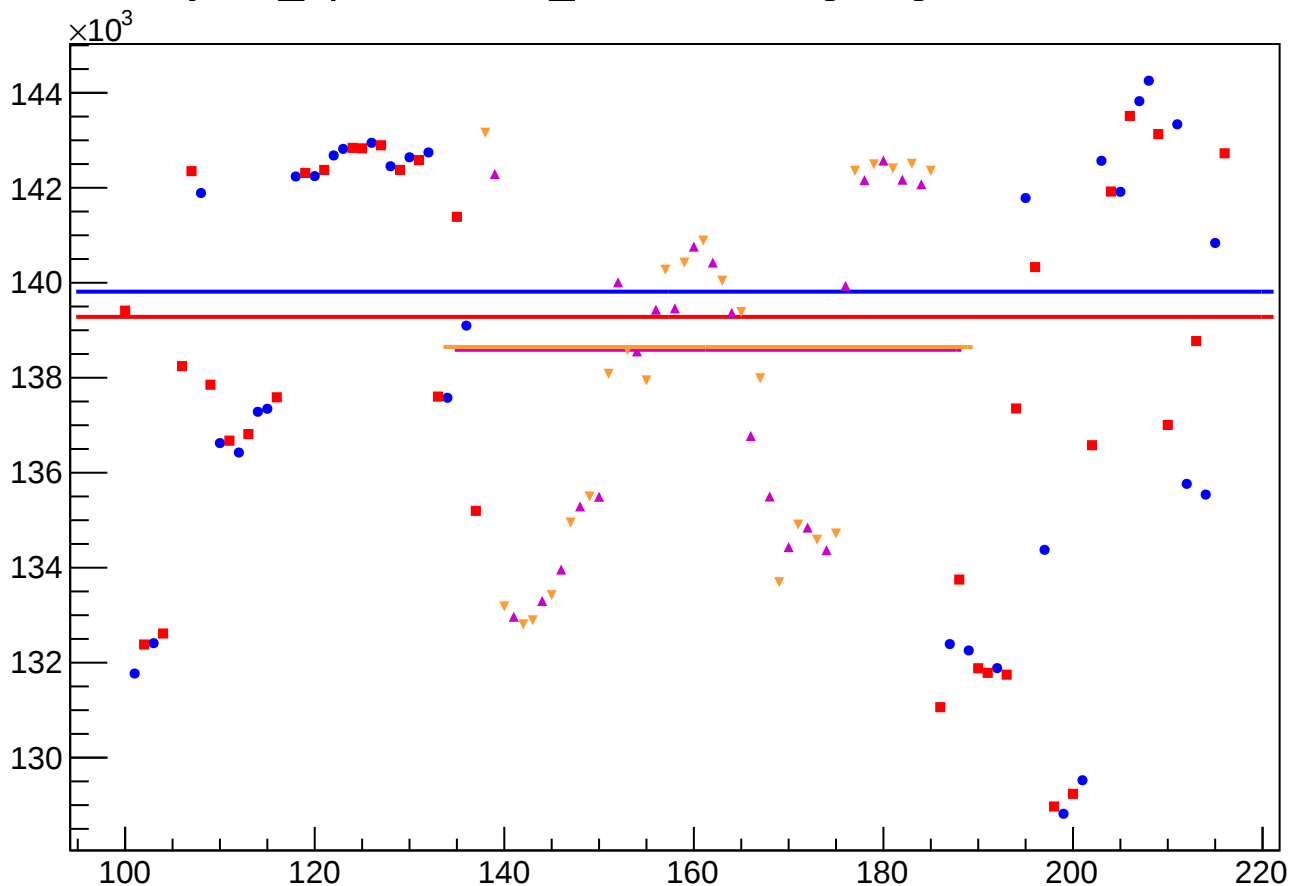
Right: 209.454 $\pm$ 0.028 χ^2/NDF : 12389427.3/66

In: 215.803 $\pm$ 0.028 χ^2/NDF : 6980485.4/54

Out: 209.326 $\pm$ 0.026 χ^2/NDF : 7263915.1/59

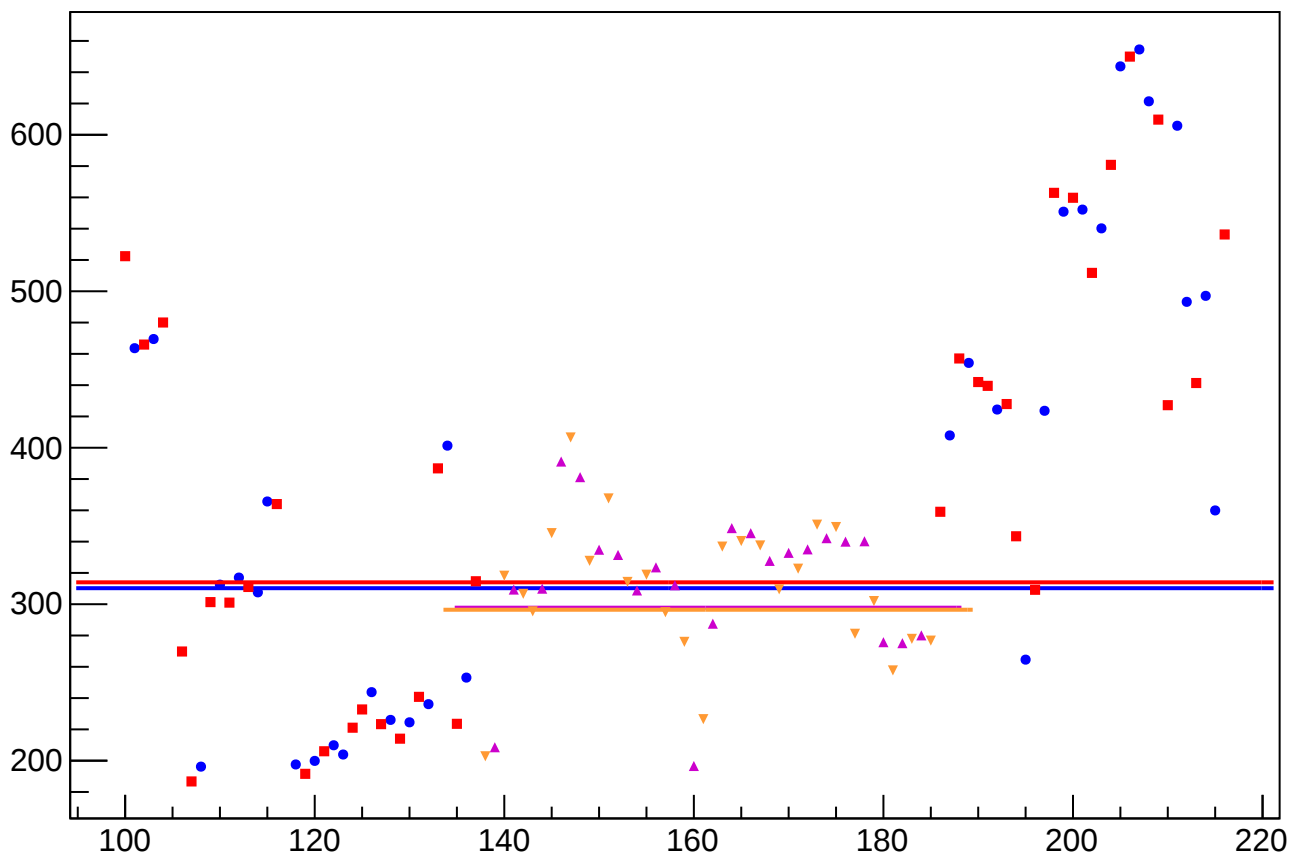
All: 212.392 $\pm$ 0.019 χ^2/NDF : 14273417.6/11

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: 139544.419 $\pm$ 0.058	χ^2 /NDF: 4876890544.1/4
Right Out: 139281.656 $\pm$ 0.081	χ^2 /NDF: 2462835495.8/34	In: 139137.011 $\pm$ 0.055	χ^2 /NDF: 4464496440.8/54
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138922.039 $\pm$ 0.053	χ^2 /NDF: 5046361586.0/5
		All: 139026.688 $\pm$ 0.038	χ^2 /NDF: 951877514

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 310.235+/-0.058 χ^2/NDF : 4967540.4/31

Left Out: 296.464+/-0.050 χ^2/NDF :893579.7/24

Right Out: 313.985+/-0.057 χ^2/NDF : 4611556.3/34

Left In: 297.774+/-0.052 χ^2/NDF :1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

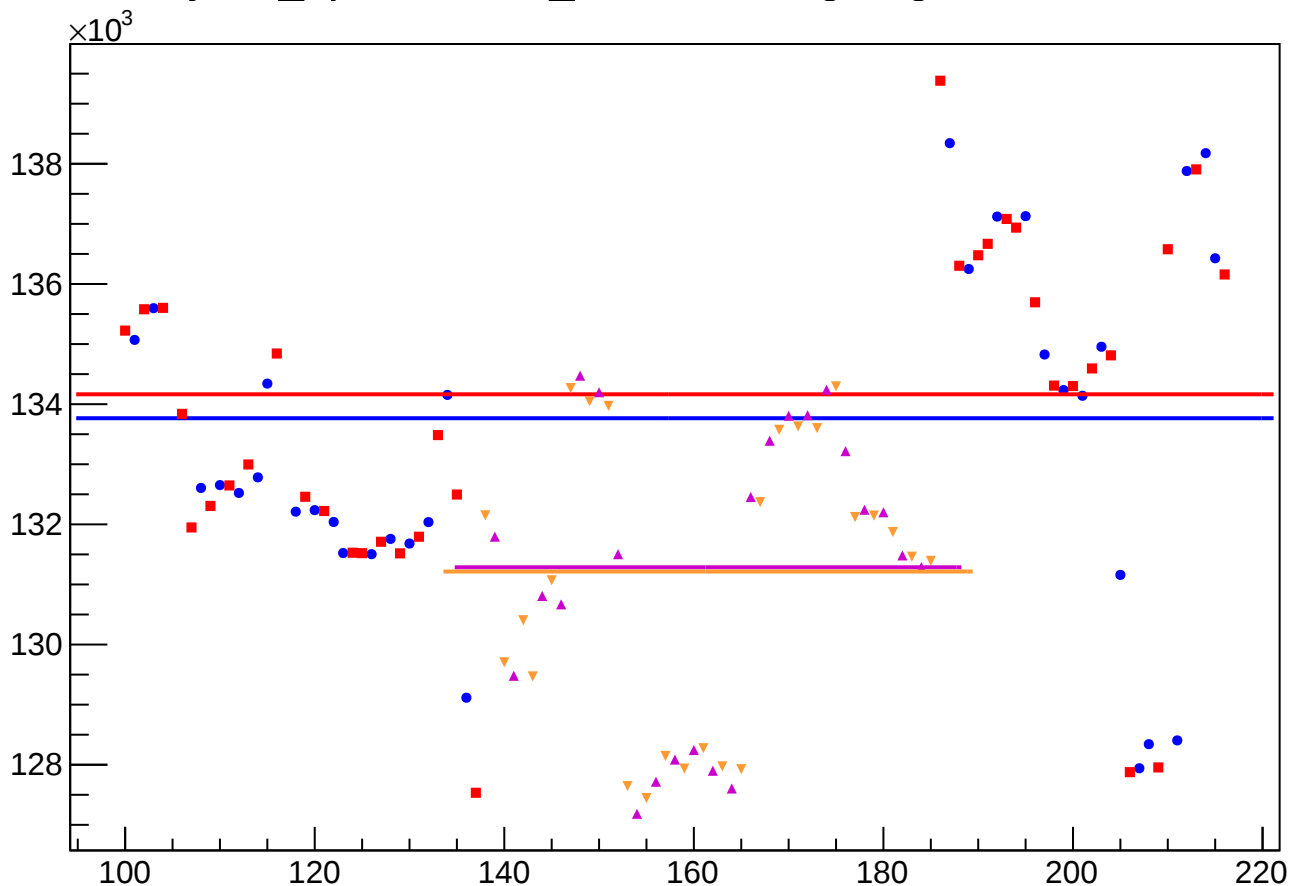
Right: 312.130+/-0.041 χ^2/NDF : 9581221.5/66

In: 303.356+/-0.039 χ^2/NDF :6054666.3/54

Out: 304.067+/-0.038 χ^2/NDF :5558209.2/59

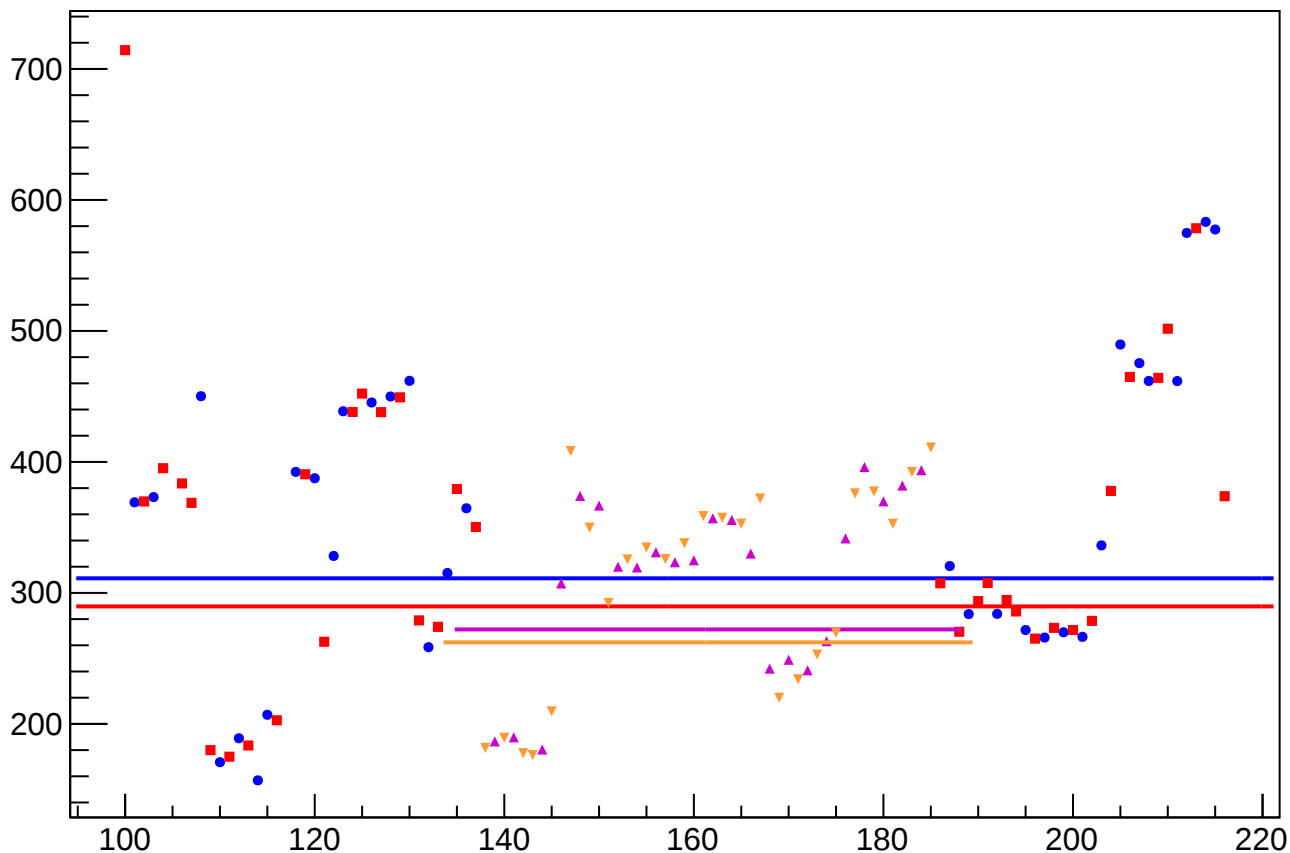
All: 303.721+/-0.027 χ^2/NDF : 11613048.8/11

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: 133982.691+/-0.054	χ^2/NDF : 2089835869.7/4
Right Out: 134164.243+/-0.073	χ^2/NDF : 1042386170.3/34	In: 132341.776+/-0.052	χ^2/NDF : 2651063486.4/54
Left In: 131285.623+/-0.068	χ^2/NDF : 1056232192.1/22	Out: 132510.005+/-0.048	χ^2/NDF : 3139130837.4/5
		All: 132431.968+/-0.035	χ^2/NDF : 579585256

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 311.140 $\pm$ 0.056 χ^2 /NDF: 3418751.2/31

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 289.702 $\pm$ 0.051 χ^2 /NDF: 3002853.8/34

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

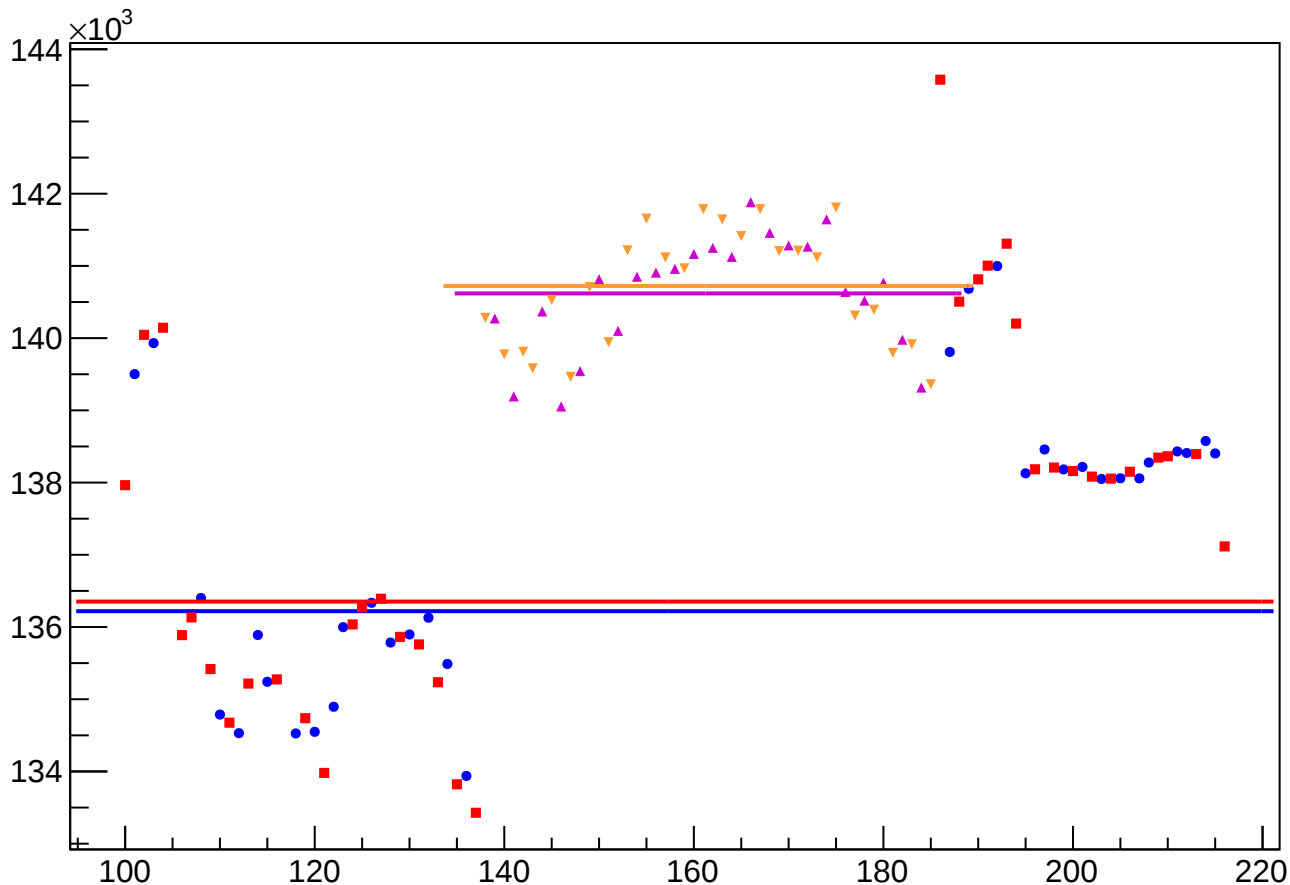
Right: 299.482 $\pm$ 0.038 χ^2 /NDF: 6500965.6/66

In: 288.730 $\pm$ 0.037 χ^2 /NDF: 5918389.2/54

Out: 274.310 $\pm$ 0.034 χ^2 /NDF: 5980906.3/59

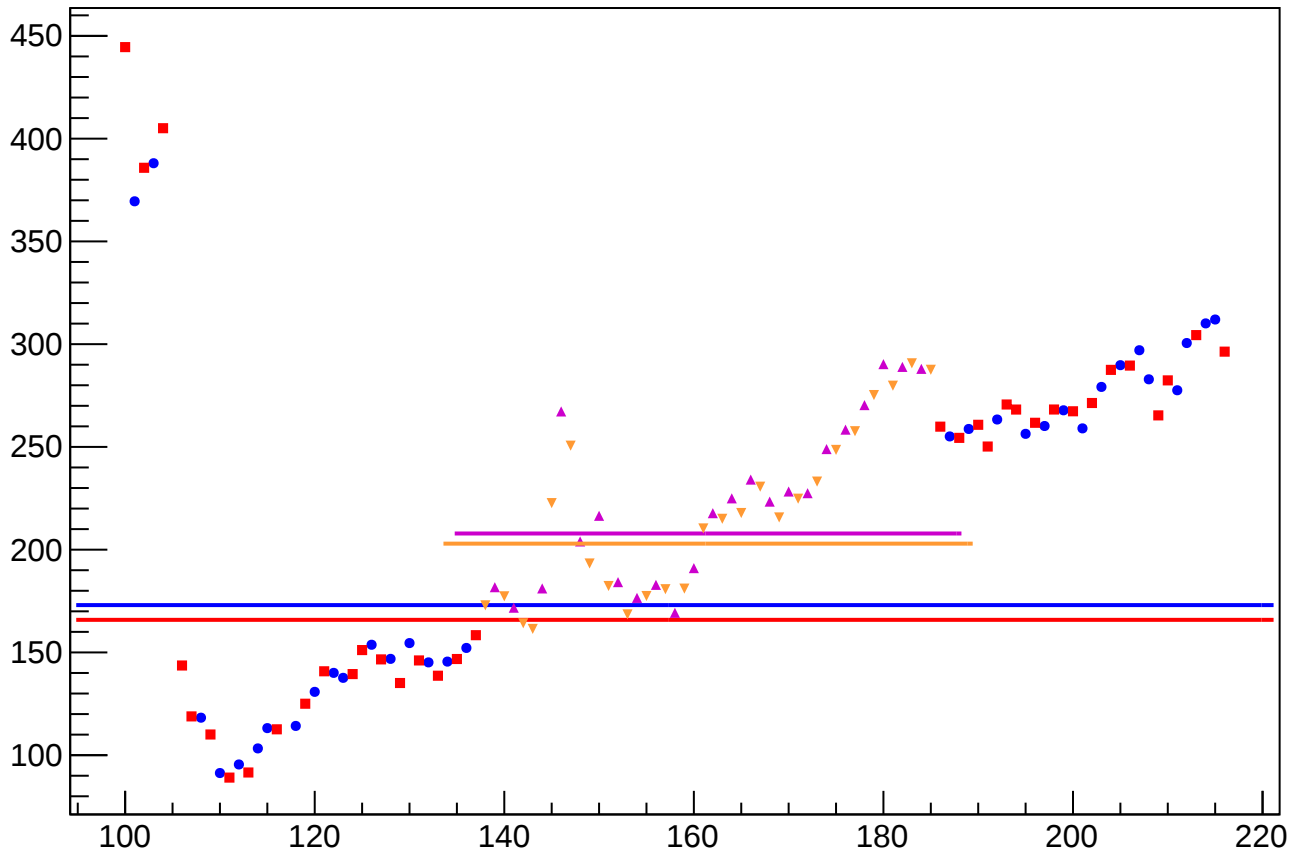
All: 280.999 $\pm$ 0.025 χ^2 /NDF: 11982445.0/119

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136219.267+/-0.046	χ^2/NDF : 1665082488.4/31	Left: 140673.196+/-0.035	χ^2/NDF : 449761004.9/47
Left Out: 140721.823+/-0.048	χ^2/NDF : 247257762.8/24	Right: 136289.053+/-0.032	χ^2/NDF : 3884804064.5/10
Right Out: 136352.136+/-0.044	χ^2/NDF : 2215308187.2/34	In: 138181.578+/-0.034	χ^2/NDF : 5974801169.7/54
Left In: 140619.038+/-0.051	χ^2/NDF : 200370178.0/22	Out: 138308.314+/-0.032	χ^2/NDF : 6963380125.4/54
		All: 138248.238+/-0.023	χ^2/NDF : 129454395.0/100

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: 165.856 $\pm$ 0.031 χ^2 /NDF: 6009561.6/34

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

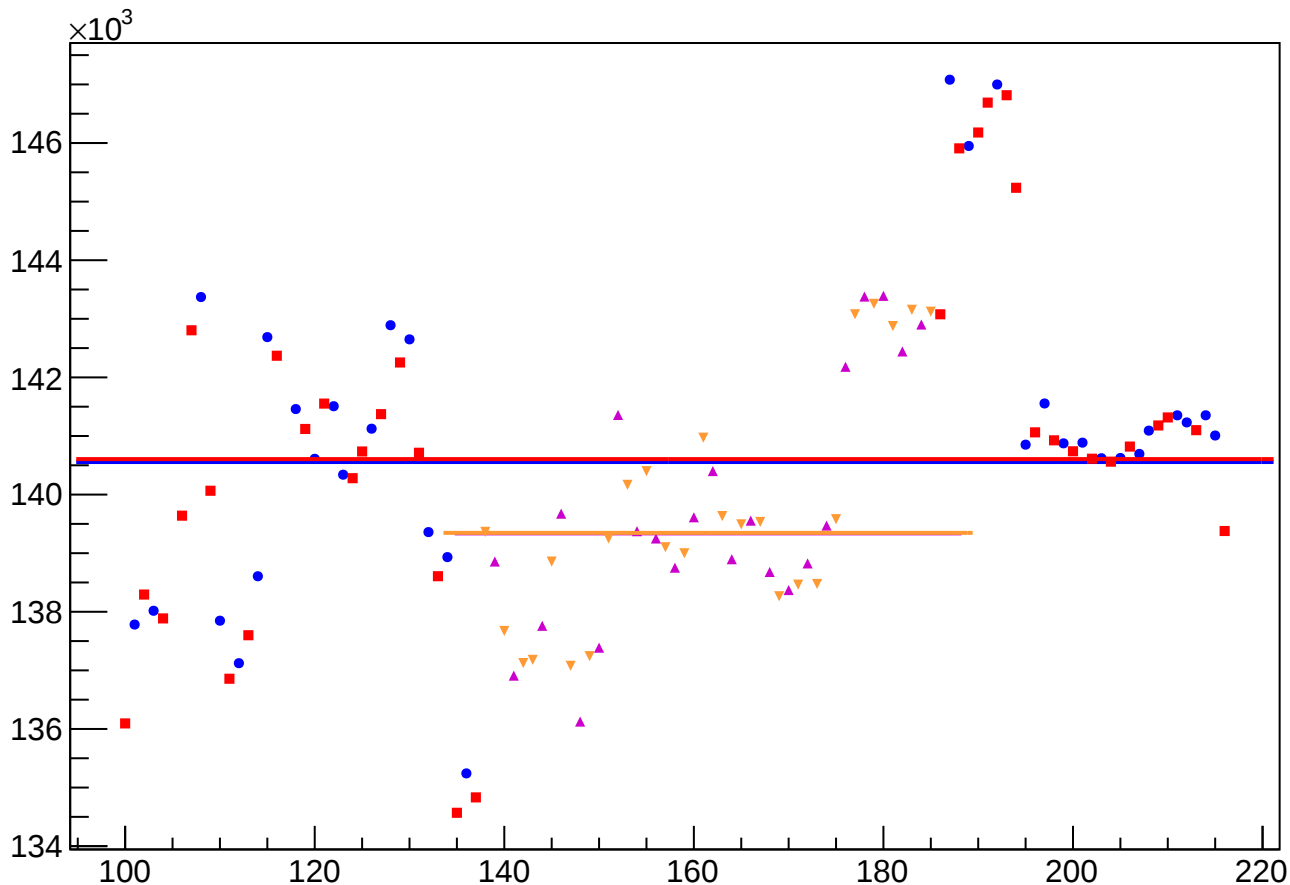
Right: 169.262 $\pm$ 0.022 χ^2 /NDF: 11703071.3/66

In: 188.570 $\pm$ 0.024 χ^2 /NDF:7132385.1/54

Out: 182.455 $\pm$ 0.023 χ^2 /NDF:7709953.9/59

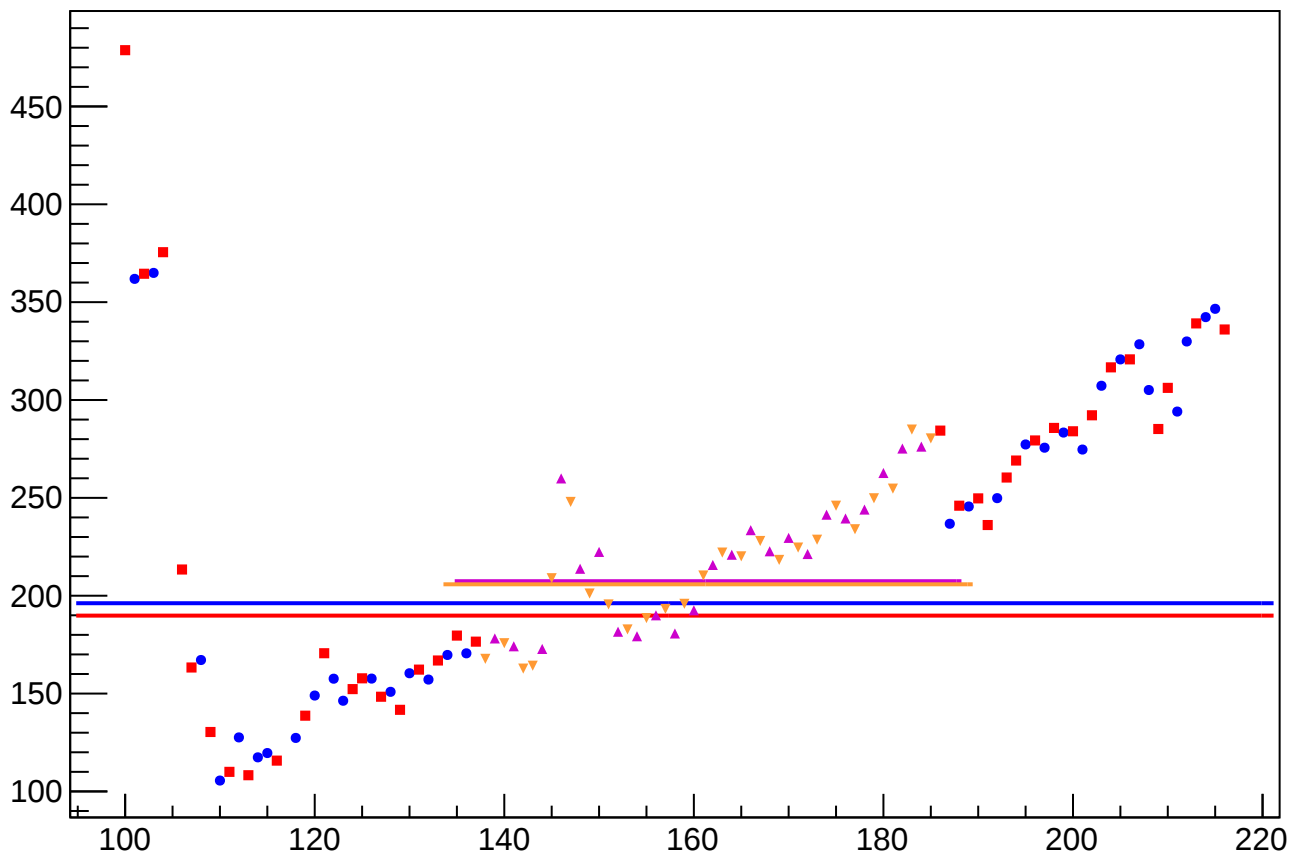
All: 185.353 $\pm$ 0.017 χ^2 /NDF: 14876130.3/11

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140555.658 $\pm$ 0.051 χ^2 /NDF: 2788503152.7/31
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140605.723 $\pm$ 0.049 χ^2 /NDF: 3228577038.3/34
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/4
 Right: 140581.774 $\pm$ 0.035 χ^2 /NDF: 6017581587.5/4
 In: 139944.065 $\pm$ 0.036 χ^2 /NDF: 4367128024.3/54
 Out: 139976.984 $\pm$ 0.035 χ^2 /NDF: 4830801230.6/54
 All: 139961.189 $\pm$ 0.025 χ^2 /NDF: 919836353.0/108

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: 189.832 $\pm$ 0.035 χ^2 /NDF: 4828732.7/34

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

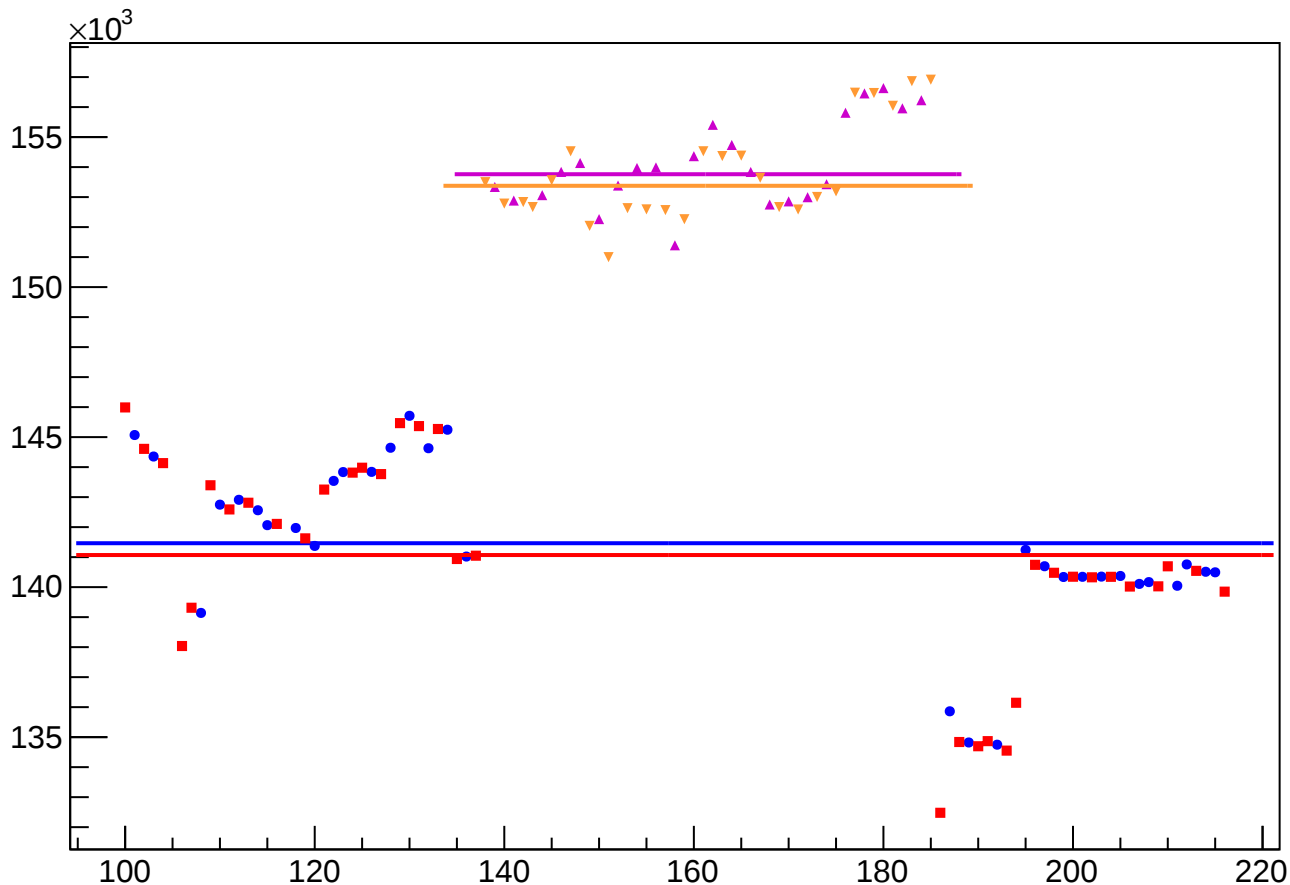
Right: 192.863 $\pm$ 0.025 χ^2 /NDF: 9454676.9/66

In: 201.817 $\pm$ 0.025 χ^2 /NDF: 5360583.0/54

Out: 197.822 $\pm$ 0.024 χ^2 /NDF: 5674318.9/59

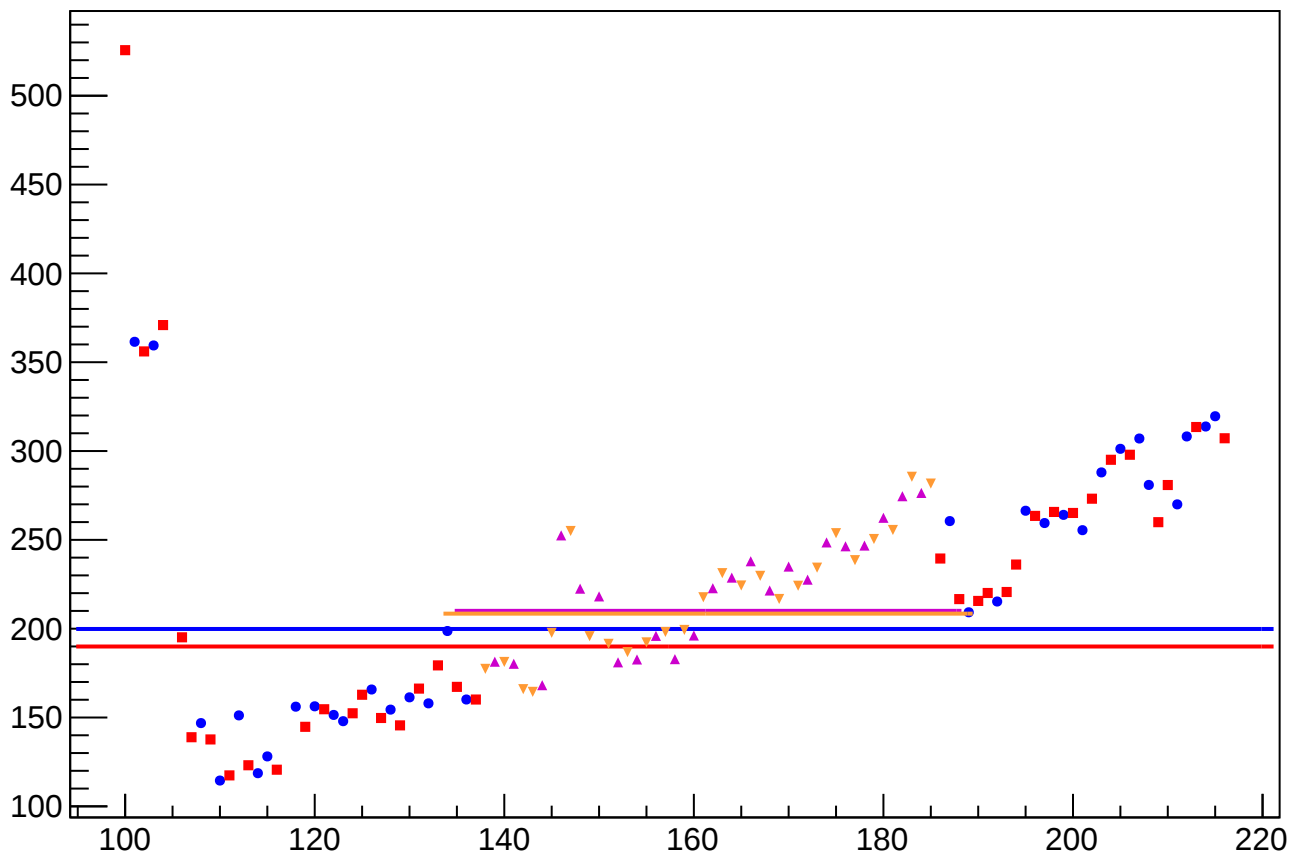
All: 199.739 $\pm$ 0.018 χ^2 /NDF: 11047691.9/11

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141463.517+/-0.051	χ^2/NDF : 2749261135.6/31	Left: 153562.262+/-0.036	χ^2/NDF : 1468093411.3/4
Left Out: 153376.698+/-0.050	χ^2/NDF : 803848095.1/24	Right: 141254.545+/-0.035	χ^2/NDF : 7237753067.3/
Right Out: 141069.726+/-0.048	χ^2/NDF : 4456866943.9/34	In: 147560.659+/-0.036	χ^2/NDF : 32202727853.6/5
Left In: 153762.419+/-0.051	χ^2/NDF : 635075685.0/22	Out: 147025.925+/-0.034	χ^2/NDF : 37112931389.8
		All: 147279.970+/-0.025	χ^2/NDF : 694300502

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: 189.970+/-0.034 χ^2/NDF : 3567105.3/34

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

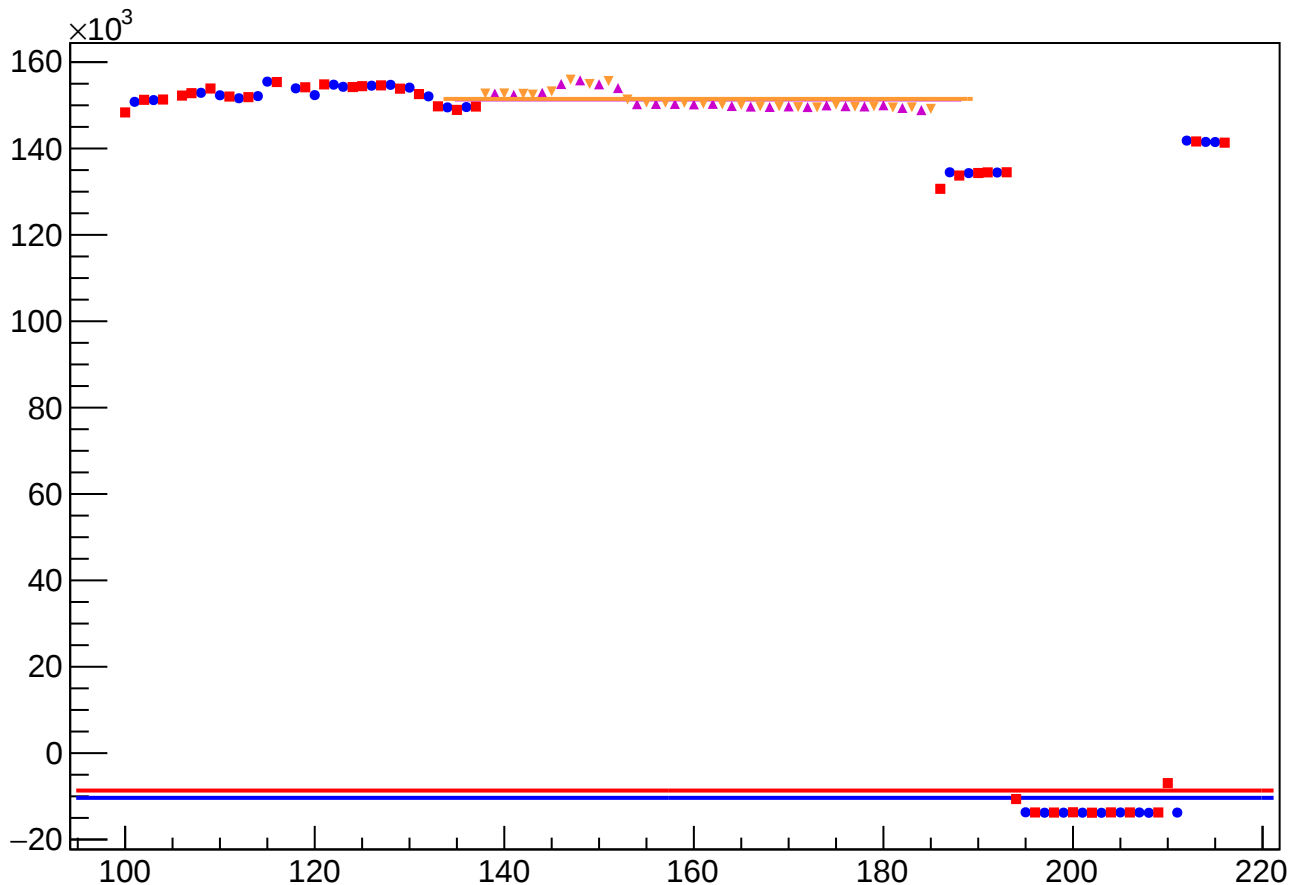
Right: 194.602+/-0.025 χ^2/NDF : 7000431.9/66

In: 204.895+/-0.026 χ^2/NDF : 4135587.1/54

Out: 198.921+/-0.024 χ^2/NDF : 4431890.9/59

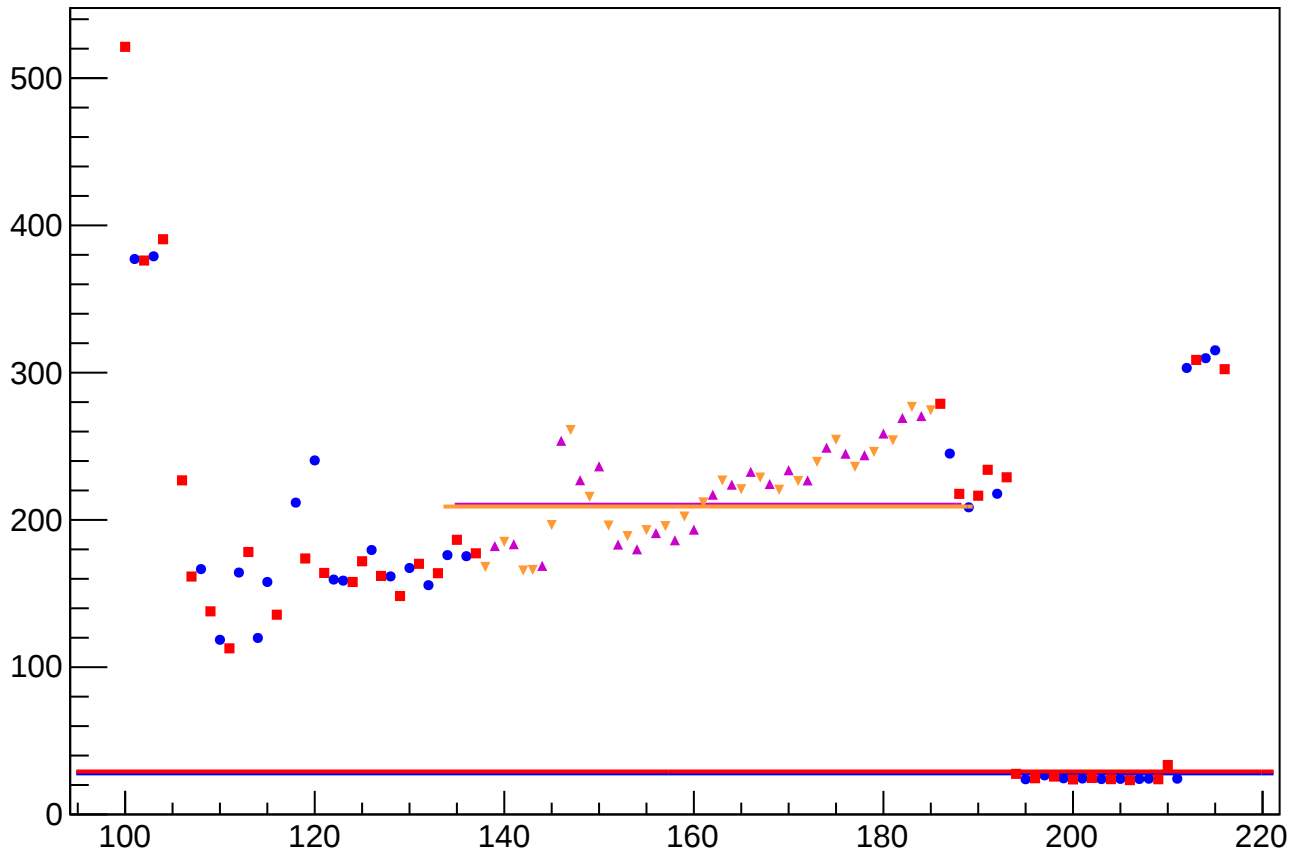
All: 201.760+/-0.018 χ^2/NDF : 8596034.6/114

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10351.511+/-0.009	χ^2/NDF : 6424435261107.7/31	Left: 151425.512+/-0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385+/-0.050	χ^2/NDF : 1481910066.9/24	Right: -9579.416+/-0.007	χ^2/NDF : 1394080324996
Right Out: -8661.232+/-0.010	χ^2/NDF : 7501001985004.1/34	In: -5314.965+/-0.009	χ^2/NDF : 16015752973367.0
Left In: 151363.165+/-0.051	χ^2/NDF : 1421662089.0/22	Out: -2326.792+/-0.010	χ^2/NDF : 17546177611931
		All: -3943.544+/-0.007	χ^2/NDF : 3361173288

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: 29.173 $\pm$ 0.007 χ^2 /NDF: 15804595.6/34

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

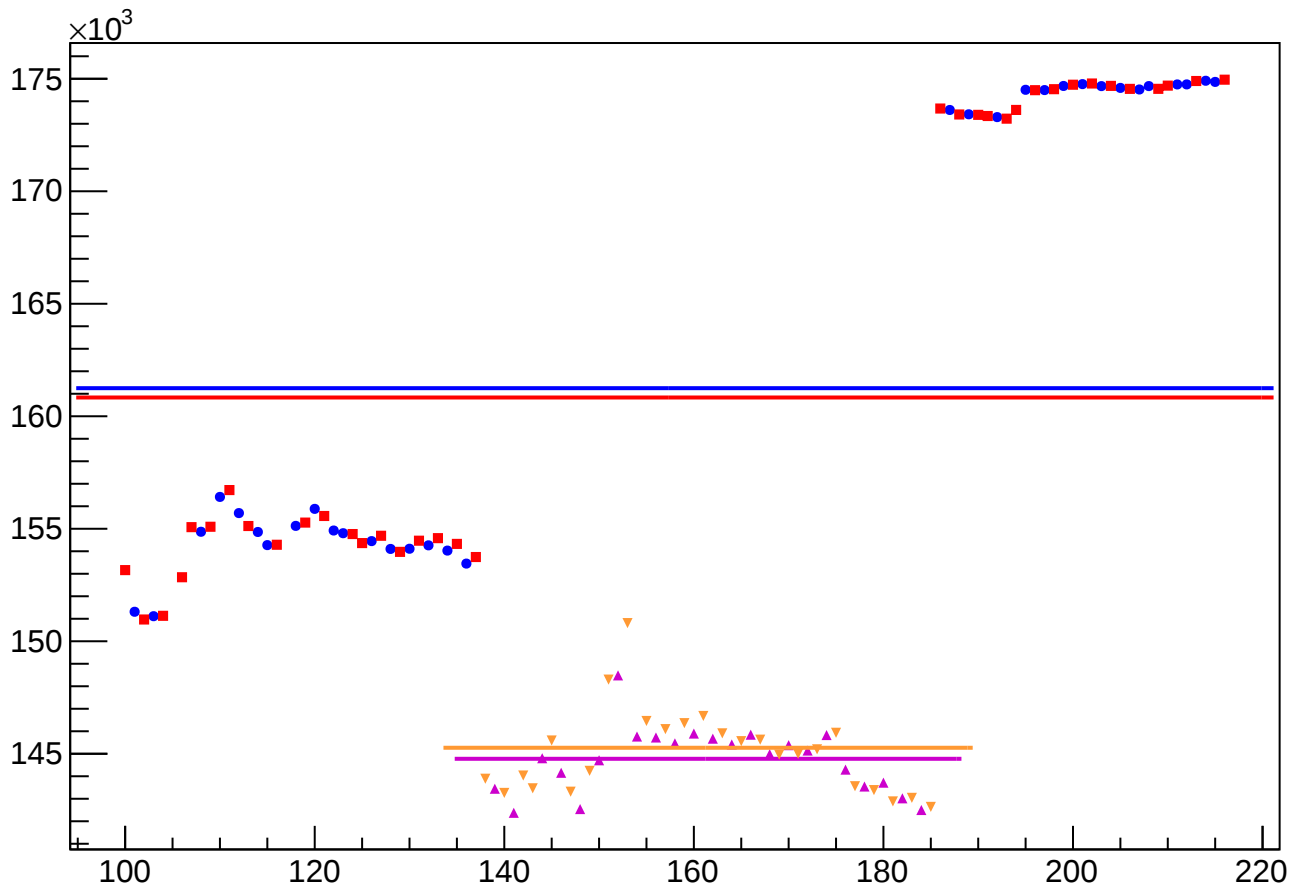
Right: 28.479 $\pm$ 0.005 χ^2 /NDF: 31011312.9/66

In: 33.578 $\pm$ 0.006 χ^2 /NDF: 40280325.1/54

Out: 36.289 $\pm$ 0.007 χ^2 /NDF: 41862757.9/59

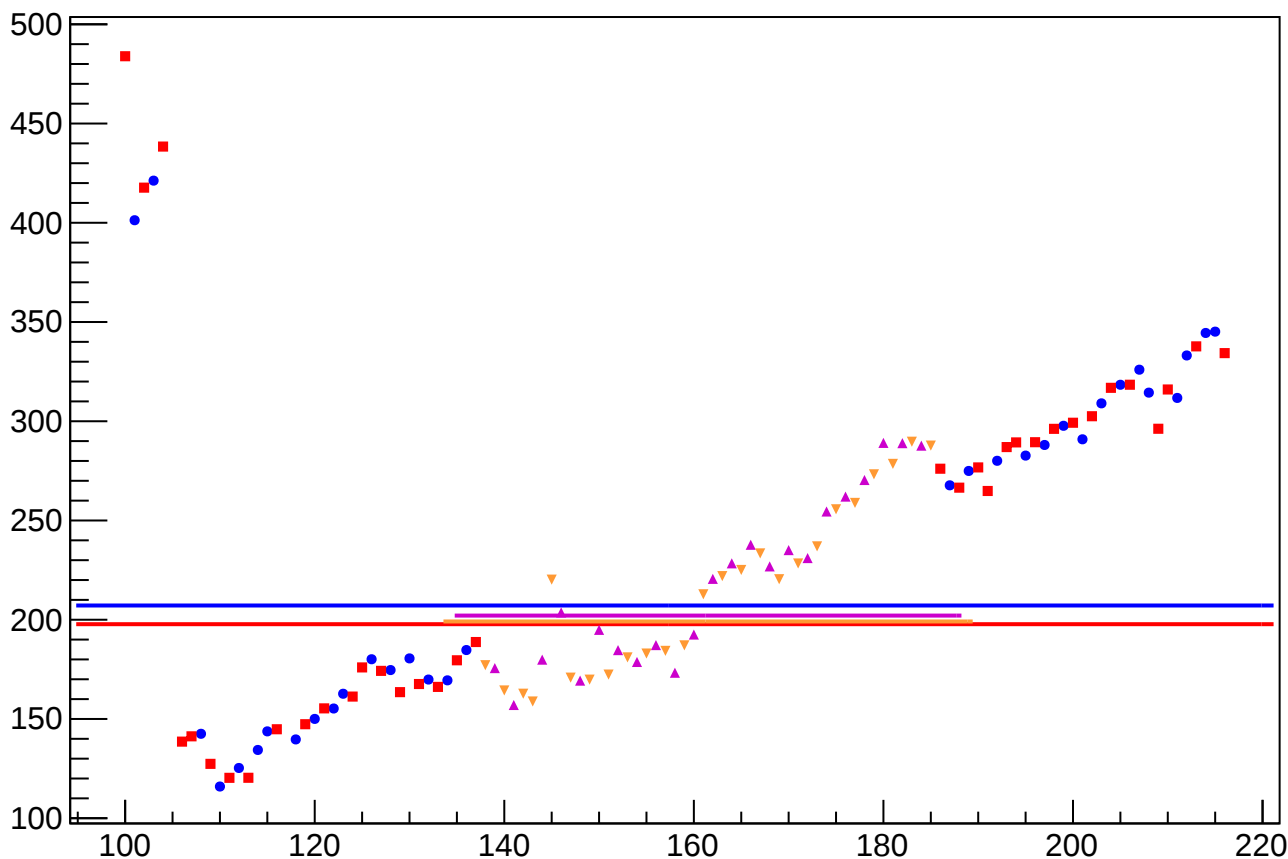
All: 34.822 $\pm$ 0.005 χ^2 /NDF: 82225049.1/114

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161248.441 $\pm$ 0.054 χ^2 /NDF: 2993296687.6/31
 Left Out: 145266.717 $\pm$ 0.047 χ^2 /NDF: 1717707352.7/24
 Right Out: 160834.092 $\pm$ 0.051 χ^2 /NDF: 31779575711.7/34
 Left In: 144776.016 $\pm$ 0.050 χ^2 /NDF: 918120275.4/22
 All: 152457.157 $\pm$ 0.025 χ^2 /NDF: 165667018

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: 197.754+/-0.036 χ^2/NDF : 4760221.1/34

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

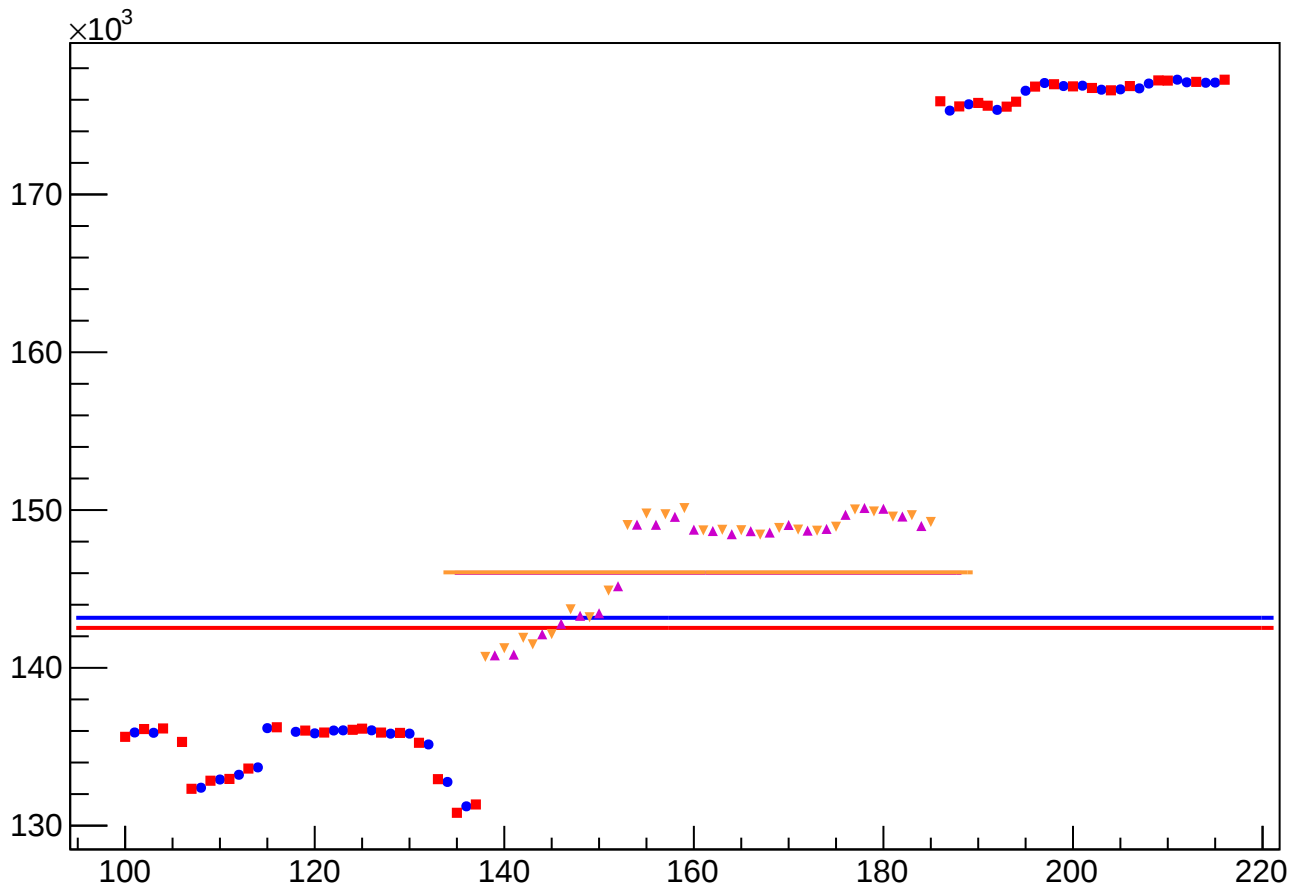
Right: 202.187+/-0.026 χ^2/NDF : 9266266.0/66

In: 204.430+/-0.026 χ^2/NDF : 5540938.6/54

Out: 198.480+/-0.024 χ^2/NDF : 5913226.5/59

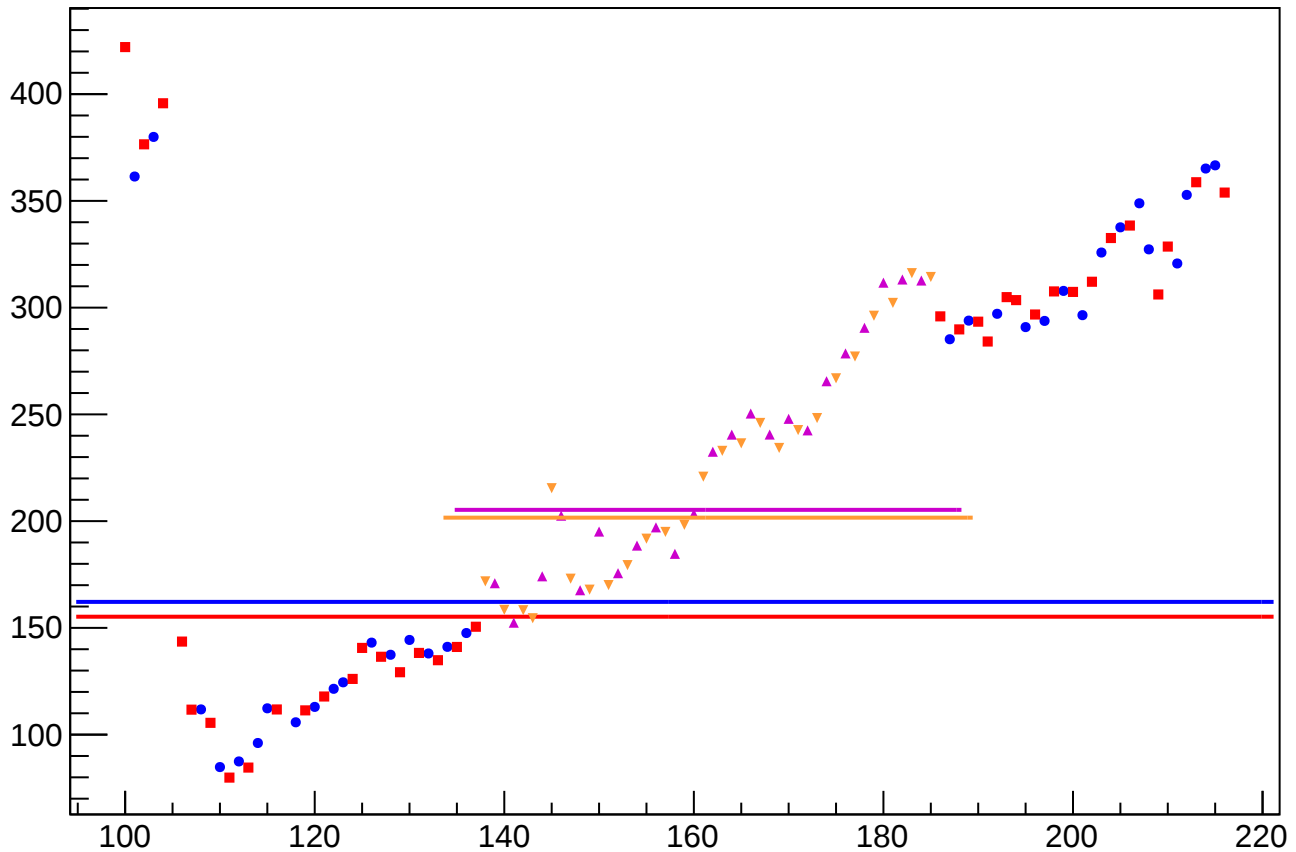
All: 201.303+/-0.018 χ^2/NDF : 11482238.7/11

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: 142834.973 $\pm$ 0.031	χ^2/NDF : 308263527852
Right Out: 142531.923 $\pm$ 0.042	χ^2/NDF : 158965958596.2/34	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: 144066.253 $\pm$ 0.032	χ^2/NDF : 167364382948
		All: 144235.297 $\pm$ 0.023	χ^2/NDF : 3229777994

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 162.176 $\pm$ 0.032 χ^2 /NDF: 8051048.7/31

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF: 1589564.0/24

Right Out: 155.235 $\pm$ 0.030 χ^2 /NDF: 8402697.7/34

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF: 1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

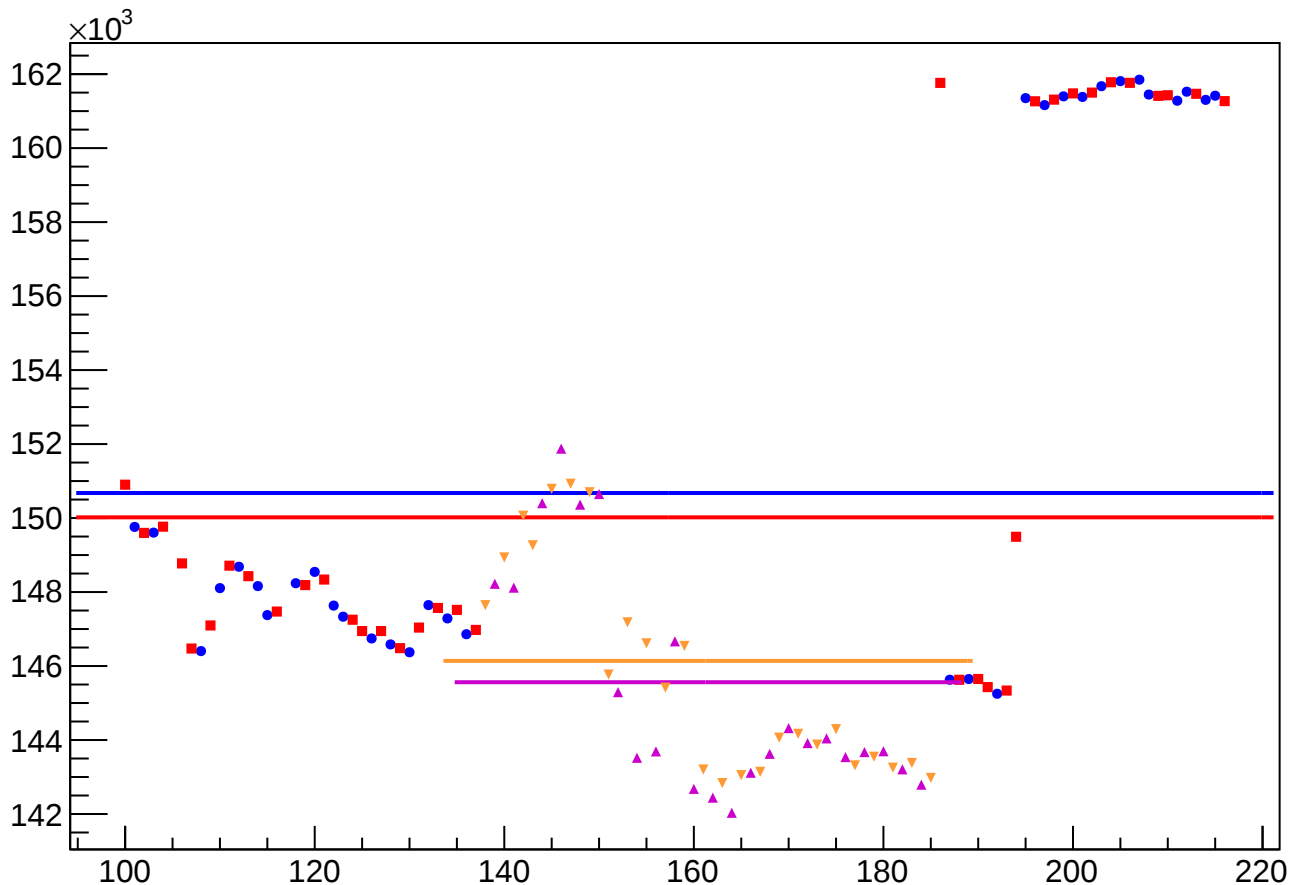
Right: 158.519 $\pm$ 0.022 χ^2 /NDF: 16479035.7/66

In: 181.101 $\pm$ 0.024 χ^2 /NDF: 10289068.6/54

Out: 175.460 $\pm$ 0.023 χ^2 /NDF: 11033097.4/59

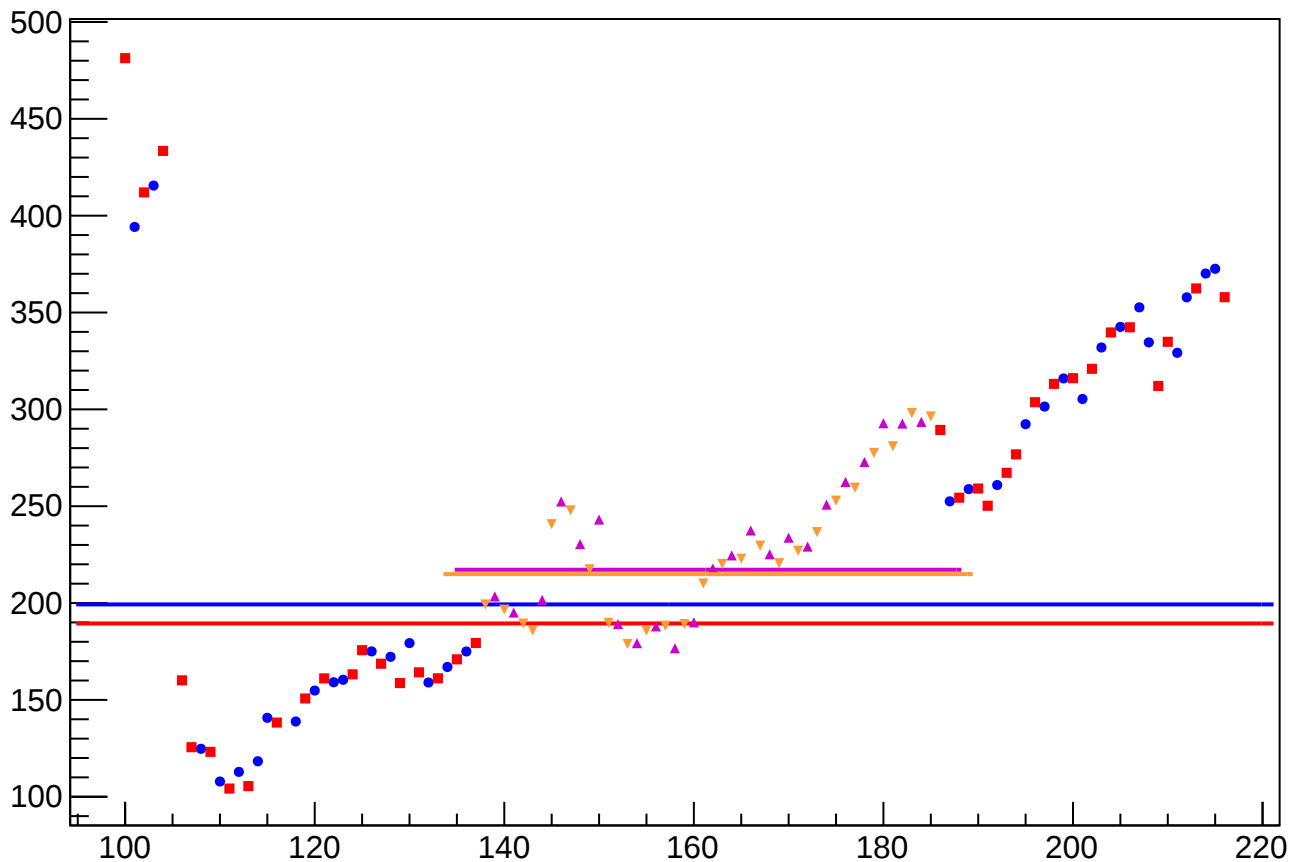
All: 178.137 $\pm$ 0.016 χ^2 /NDF: 21351864.6/11

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150676.938 $\pm$ 0.053	χ^2 /NDF: 12936553816.2/31	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 150327.341 $\pm$ 0.036	χ^2 /NDF: 24992203545.1
Right Out: 150019.110 $\pm$ 0.049	χ^2 /NDF: 11972484333.7/34	In: 148142.999 $\pm$ 0.037	χ^2 /NDF: 20677898460.7/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148138.344 $\pm$ 0.035	χ^2 /NDF: 17664951163.3
		All: 148140.549 $\pm$ 0.026	χ^2 /NDF: 383428577

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: 189.460 $\pm$ 0.035 χ^2 /NDF: 5770325.8/34

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

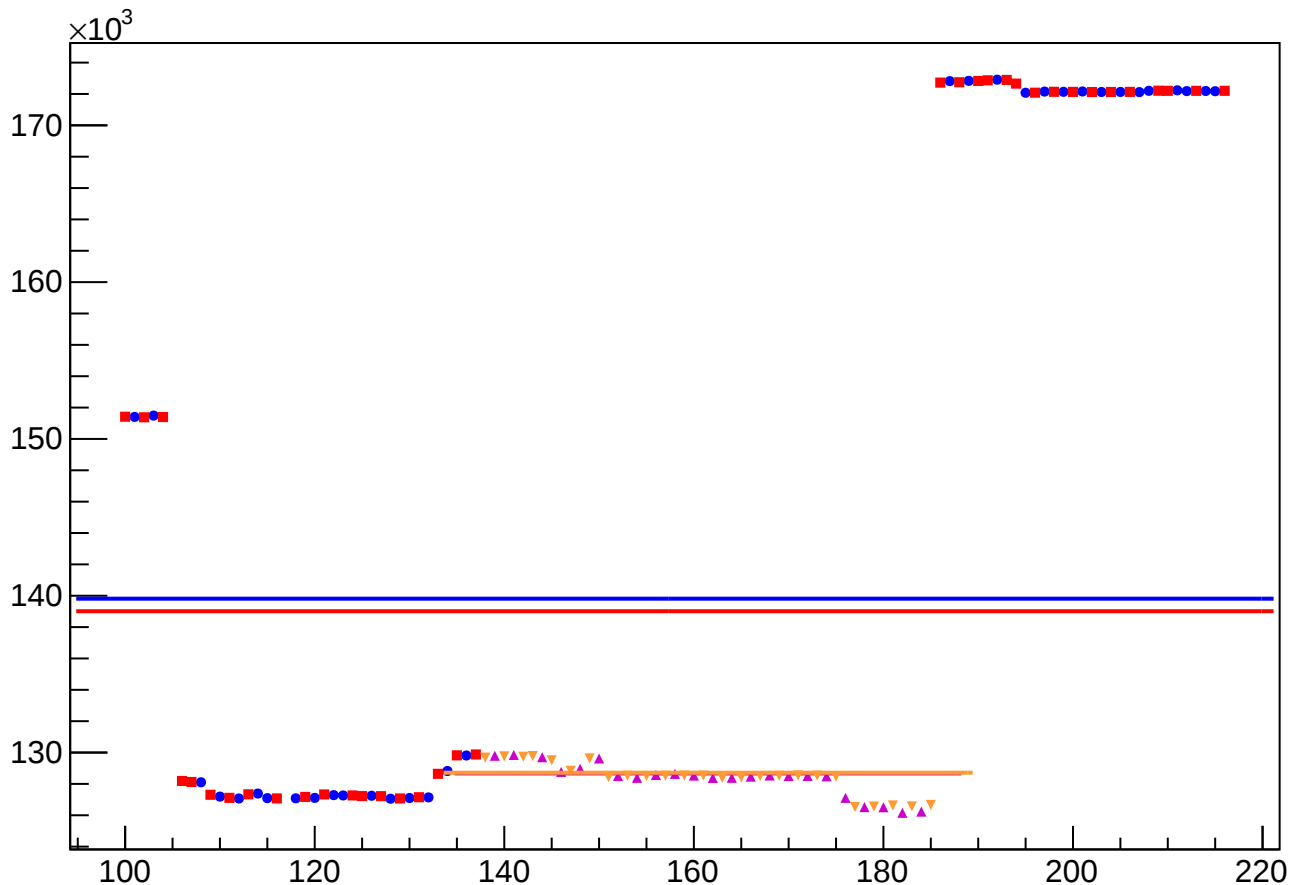
Right: 194.070 $\pm$ 0.025 χ^2 /NDF: 11340883.5/66

In: 208.169 $\pm$ 0.026 χ^2 /NDF: 6413049.9/54

Out: 201.814 $\pm$ 0.025 χ^2 /NDF: 6757104.4/59

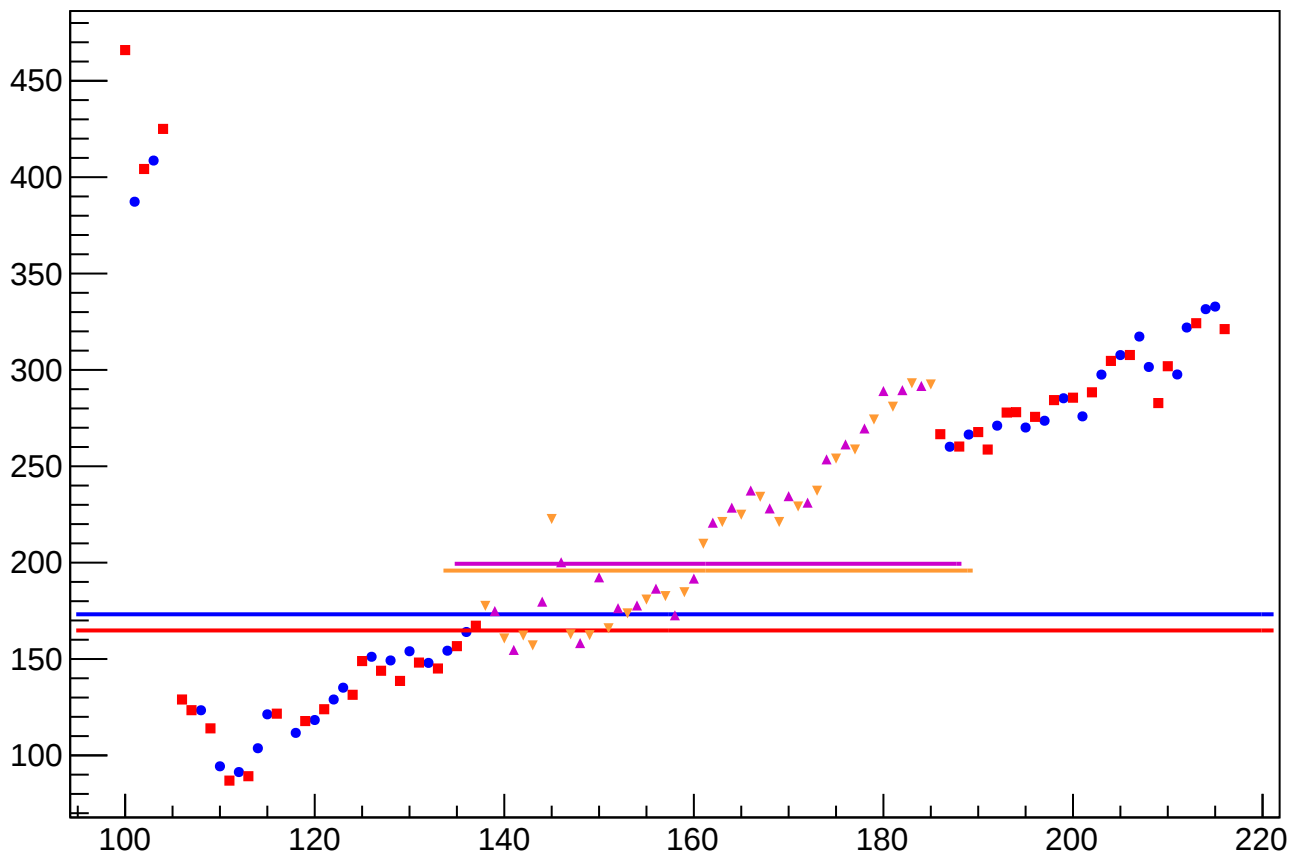
All: 204.825 $\pm$ 0.018 χ^2 /NDF: 13200611.6/13

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: 139388.147+/-0.032	χ^2/NDF : 379995404937
Right Out: 139013.006+/-0.044	χ^2/NDF : 197751896471.9/34	In: 134539.041+/-0.034	χ^2/NDF : 209685367565.5
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 134209.696+/-0.032	χ^2/NDF : 224051350234.
		All: 134365.300+/-0.023	χ^2/NDF : 433787103

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 173.199+/-0.033 χ^2/NDF : 6416919.5/31

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 164.814+/-0.031 χ^2/NDF : 6755093.0/34

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

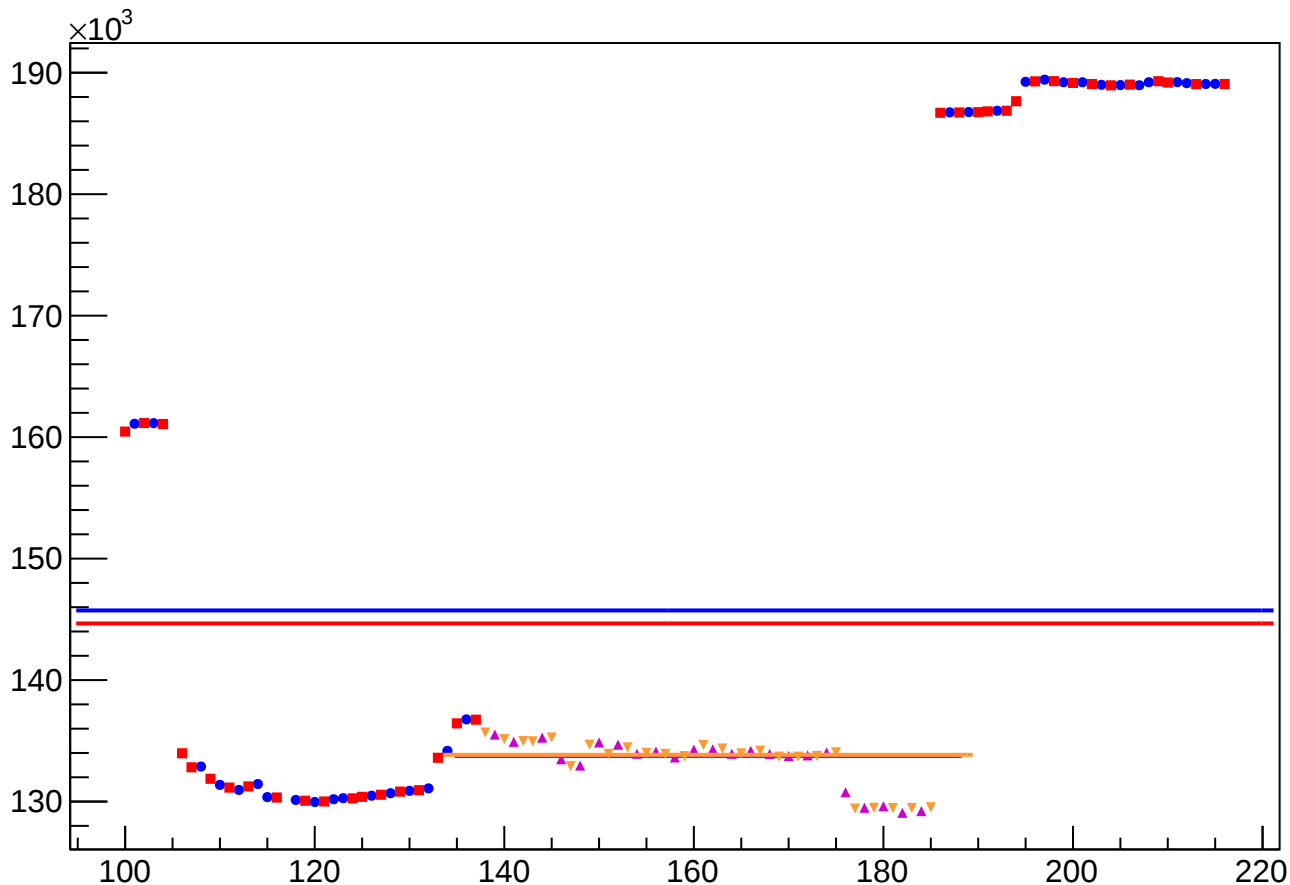
Right: 168.749+/-0.022 χ^2/NDF : 13206627.1/66

In: 185.602+/-0.024 χ^2/NDF :7884305.5/54

Out: 179.305+/-0.023 χ^2/NDF :8540817.4/59

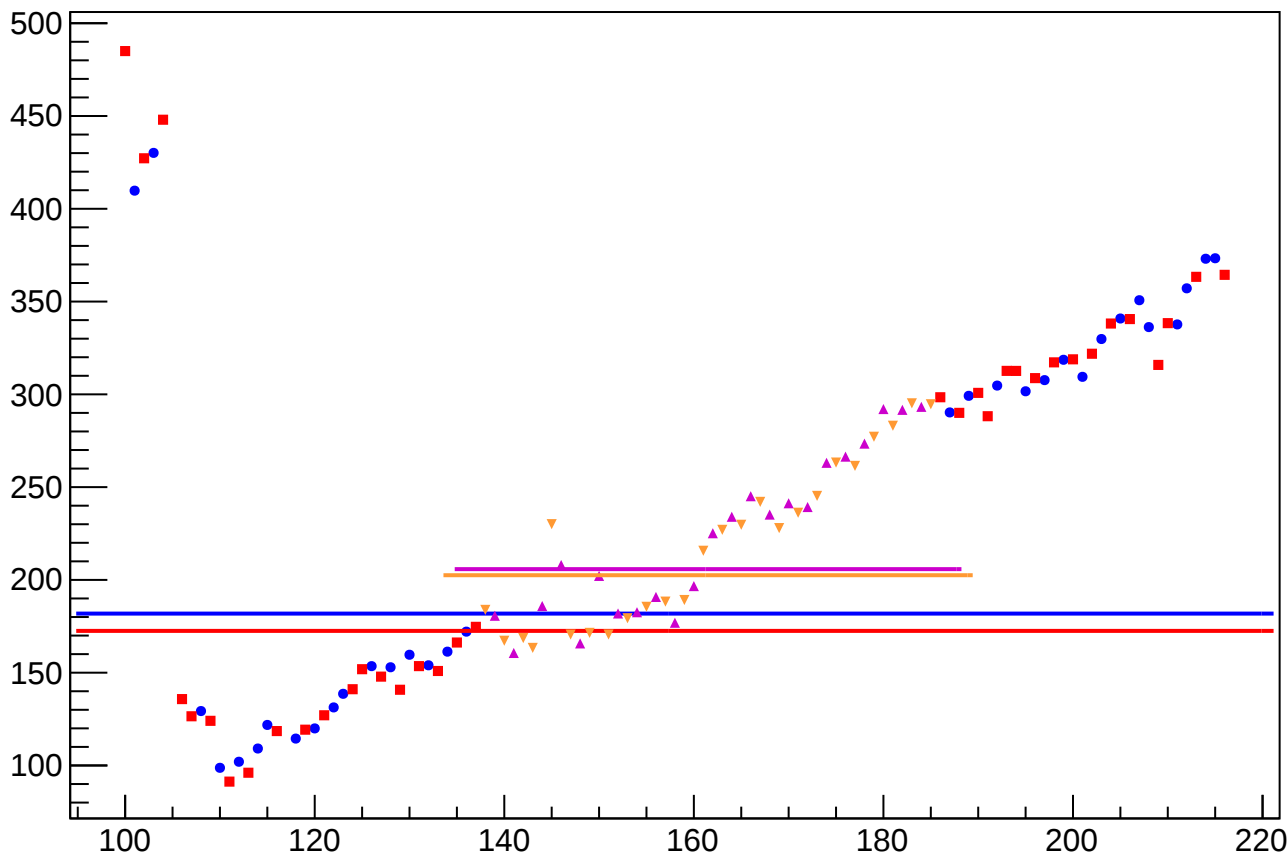
All: 182.280+/-0.016 χ^2/NDF : 16461962.0/11

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: 145163.681+/-0.034	χ^2/NDF : 511961489432
Right Out: 144661.629+/-0.046	χ^2/NDF : 263632881707.8/34	In: 139884.341+/-0.035	χ^2/NDF : 277843904621.2
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 139478.211+/-0.033	χ^2/NDF : 290878114045.
		All: 139670.036+/-0.024	χ^2/NDF : 568791898

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: 172.527 $\pm$ 0.033 χ^2/NDF : 7461755.4/34

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

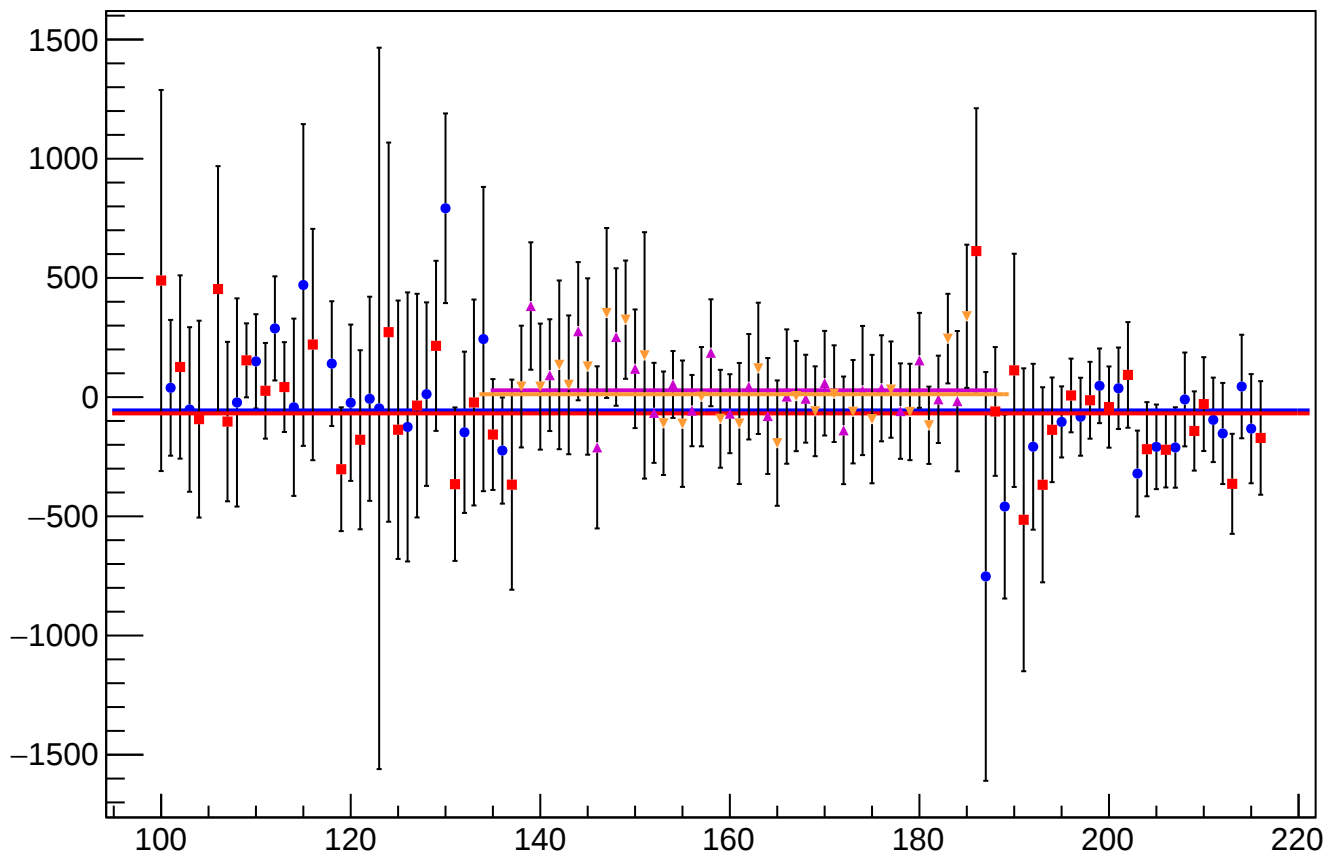
Right: 176.890 $\pm$ 0.024 χ^2/NDF : 14568820.8/66

In: 193.543 $\pm$ 0.025 χ^2/NDF :8393745.6/54

Out: 186.911 $\pm$ 0.024 χ^2/NDF :9076717.9/59

All: 190.043 $\pm$ 0.017 χ^2/NDF : 17507734.8/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -55.839 $\pm$ 42.606 χ^2/NDF : 17.5/31

Left Out: 12.180 $\pm$ 47.531 χ^2/NDF : 8.6/24

Right Out: -68.221 $\pm$ 42.381 χ^2/NDF : 15.3/34

Left In: 28.452 $\pm$ 44.688 χ^2/NDF : 6.7/22

Left: 20.817 $\pm$ 32.558 χ^2/NDF : 15.3/47

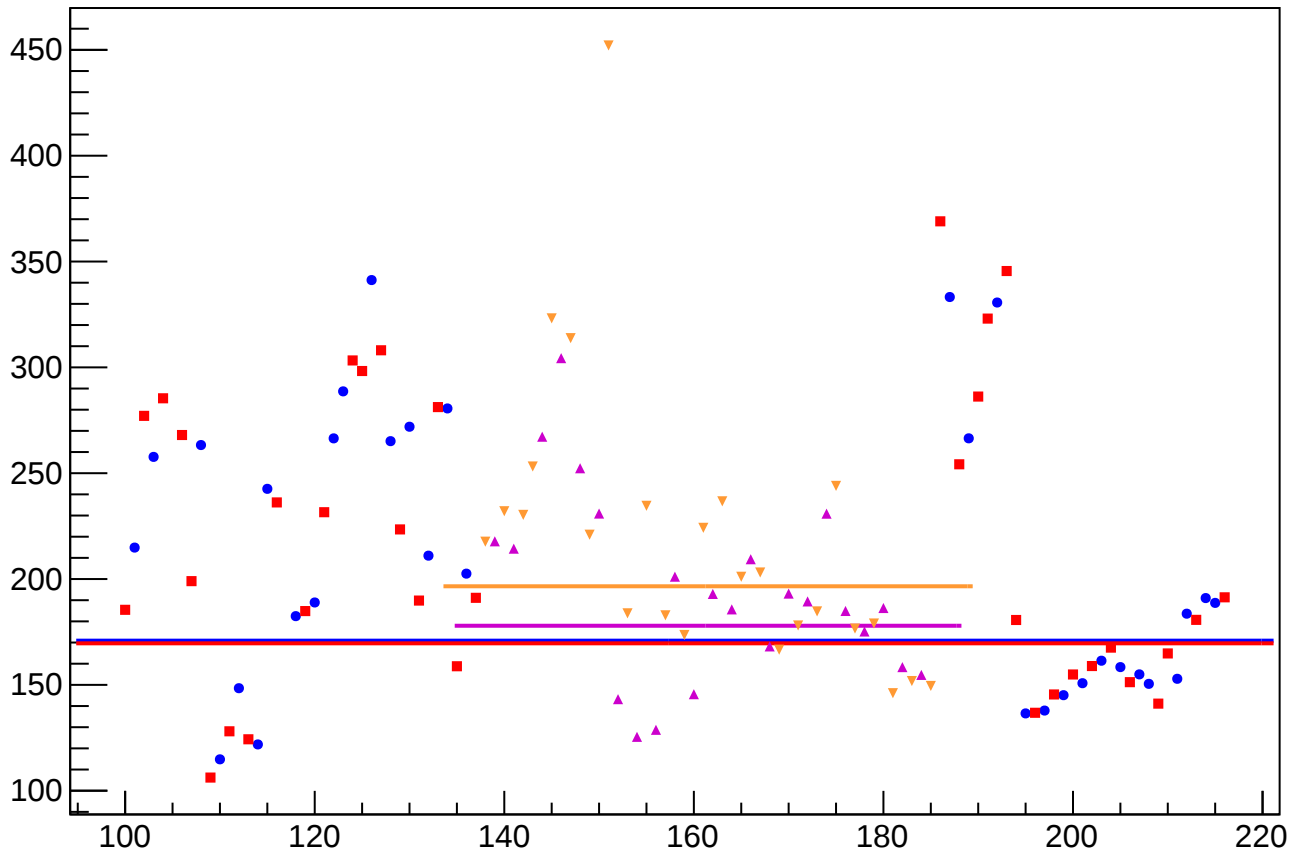
Right: -62.063 $\pm$ 30.047 χ^2/NDF : 32.9/66

In: -15.703 $\pm$ 30.837 χ^2/NDF : 26.0/54

Out: -32.610 $\pm$ 31.633 χ^2/NDF : 25.5/59

All: -23.941 $\pm$ 22.081 χ^2/NDF : 51.7/114

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: 169.628 $\pm$ 0.030 χ^2 /NDF: 2863060.3/34

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF: 1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

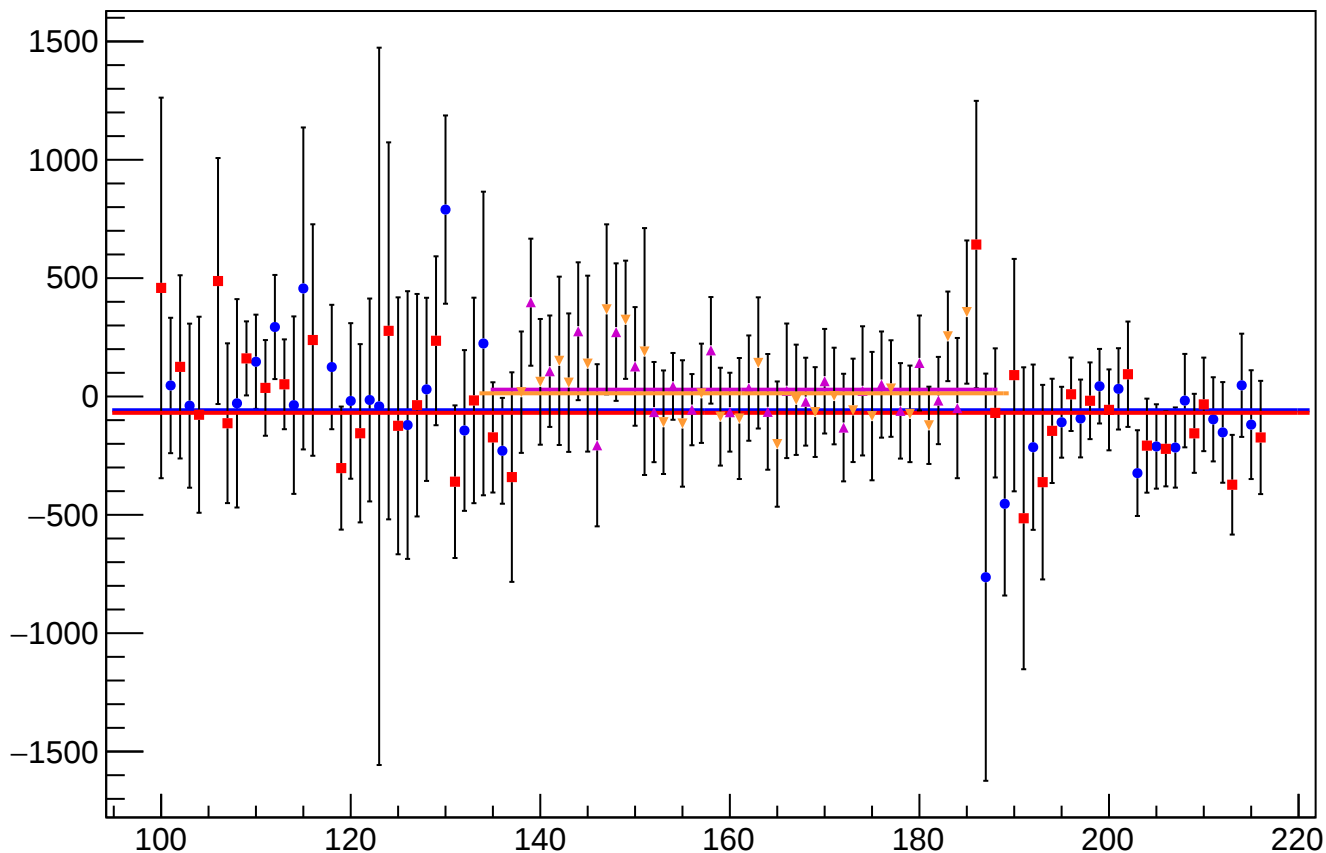
Right: 170.253 $\pm$ 0.021 χ^2 /NDF: 5045287.0/66

In: 174.241 $\pm$ 0.022 χ^2 /NDF: 3813195.6/54

Out: 181.563 $\pm$ 0.022 χ^2 /NDF: 4999934.9/59

All: 177.809 $\pm$ 0.016 χ^2 /NDF: 8868086.6/114

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: -68.989 ± 42.586 $\chi^2/\text{NDF}: 15.7/34$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

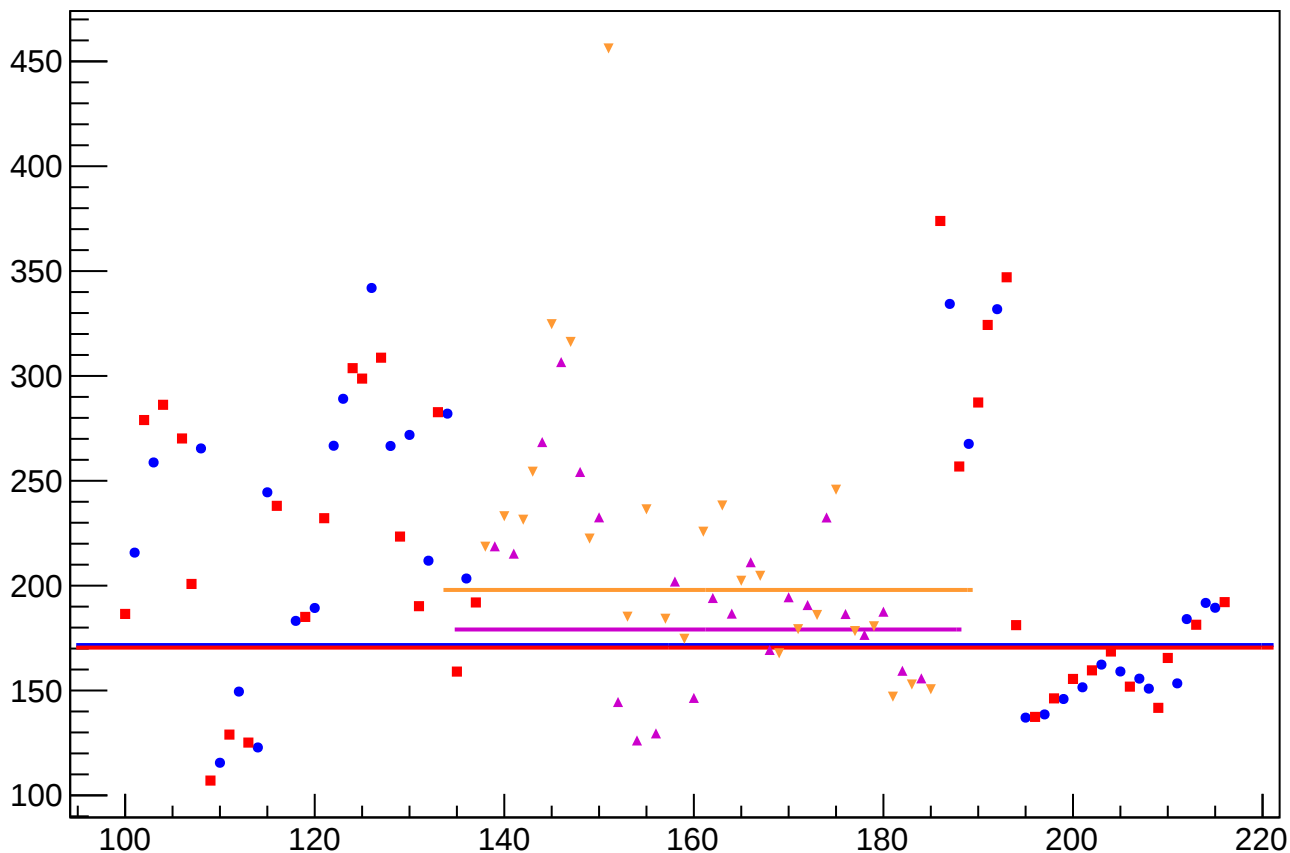
Right: -63.601 ± 30.188 $\chi^2/\text{NDF}: 33.2/66$

In: -16.837 ± 31.005 $\chi^2/\text{NDF}: 26.2/54$

Out: -32.587 ± 31.815 $\chi^2/\text{NDF}: 26.4/59$

All: -24.509 ± 22.205 $\chi^2/\text{NDF}: 52.7/114$

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: 170.457 ± 0.030 χ^2/NDF : 2858674.9/34

Left In: 179.090 ± 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 ± 0.023 χ^2/NDF : 3544595.8/47

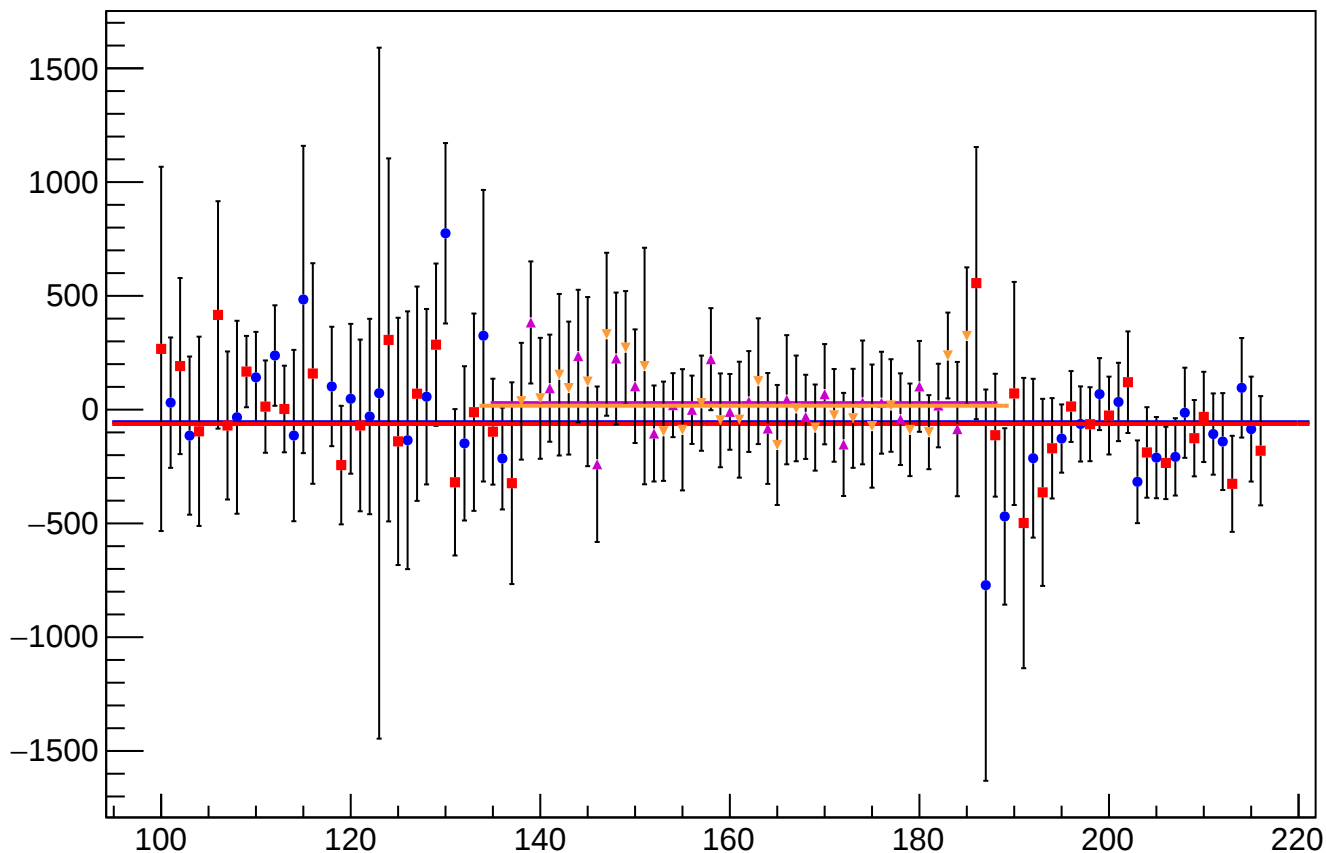
Right: 171.063 ± 0.021 χ^2/NDF : 5032140.8/66

In: 175.198 ± 0.022 χ^2/NDF : 3806288.8/54

Out: 182.606 ± 0.022 χ^2/NDF : 5001592.3/59

All: 178.807 ± 0.016 χ^2/NDF : 8863498.4/114

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -55.161 ± 42.883 $\chi^2/\text{NDF}: 17.0/31$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -62.983 ± 42.621 $\chi^2/\text{NDF}: 13.8/34$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

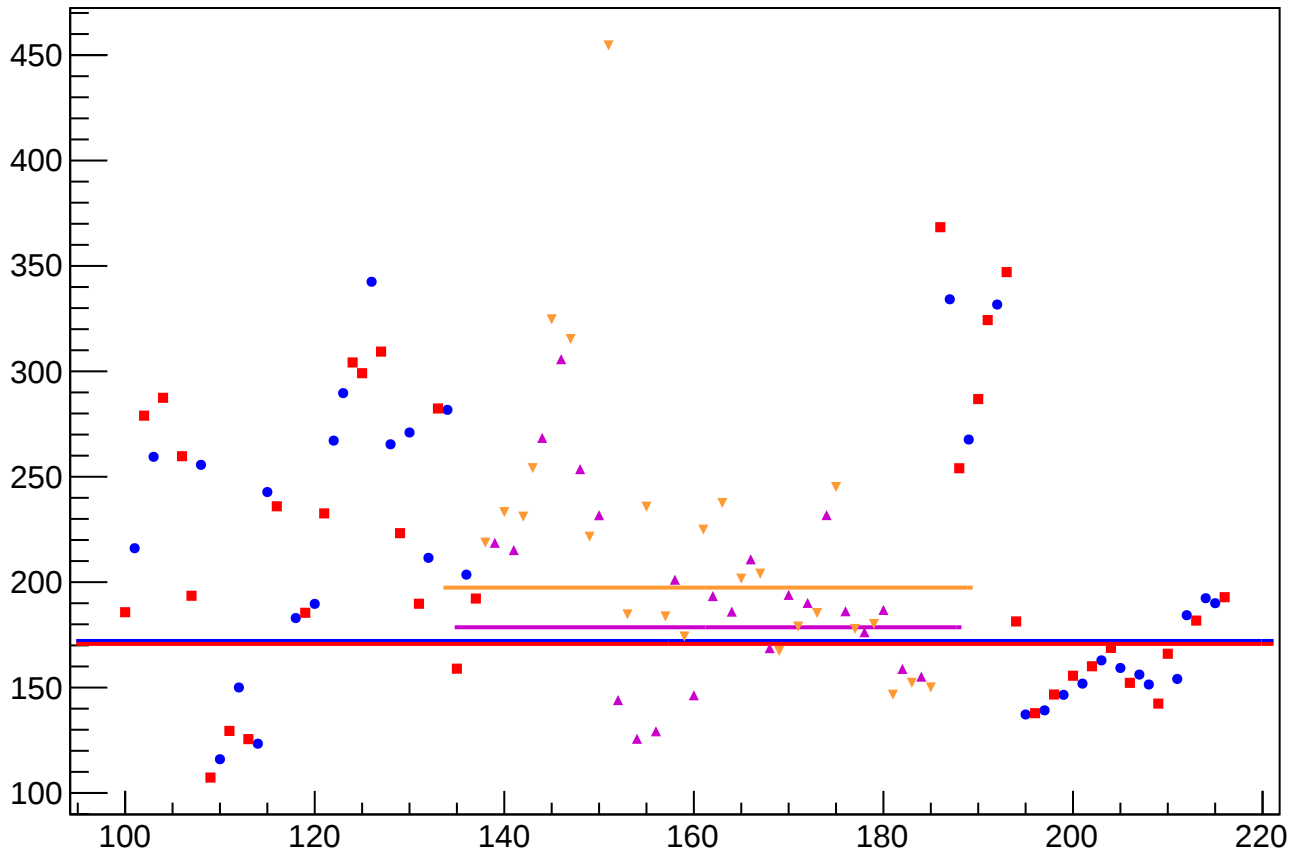
Right: -59.096 ± 30.230 $\chi^2/\text{NDF}: 30.8/66$

In: -15.139 ± 30.998 $\chi^2/\text{NDF}: 24.9/54$

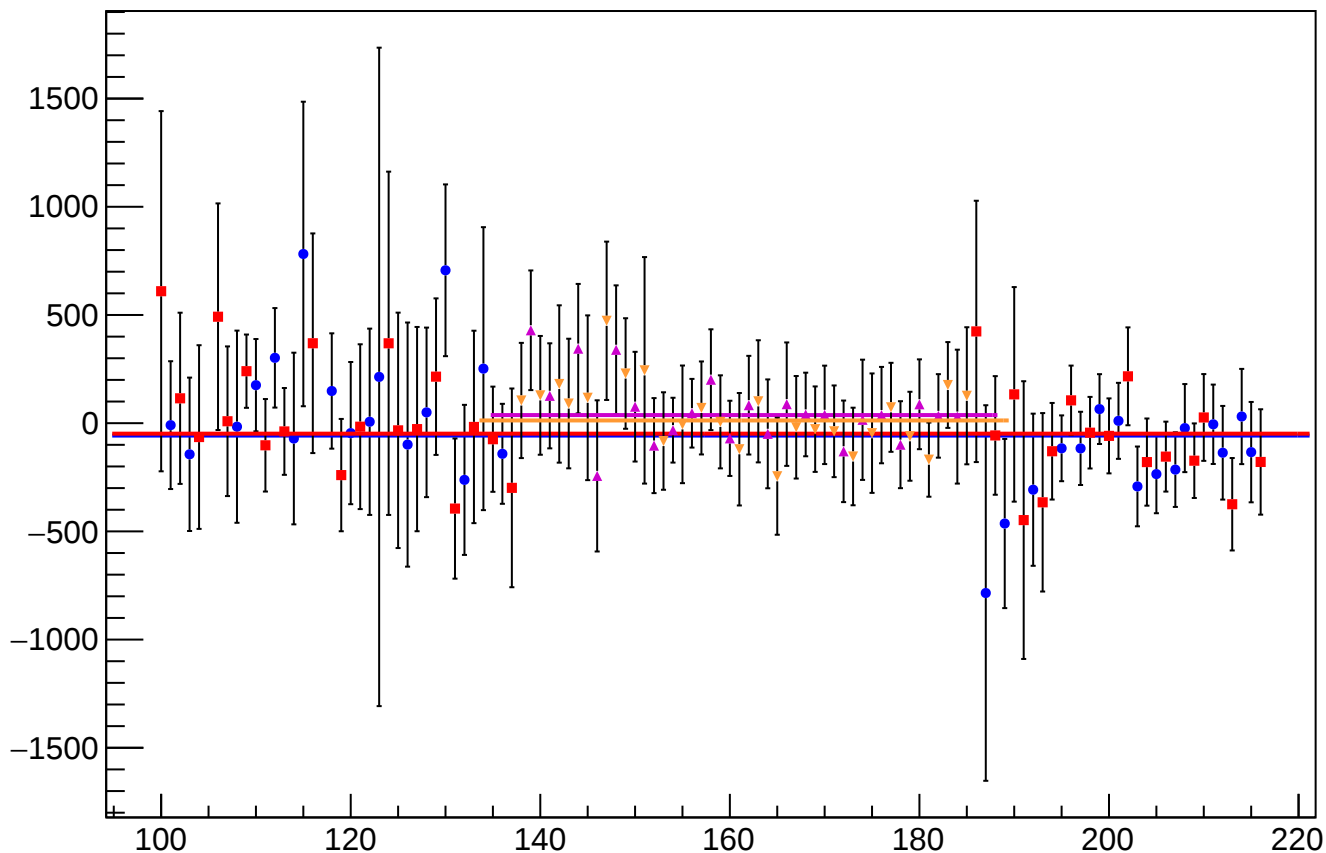
Out: -27.444 ± 31.793 $\chi^2/\text{NDF}: 22.5/59$

All: -21.136 ± 22.195 $\chi^2/\text{NDF}: 47.5/114$

asym_bcm_an_us_rms vs Slug, Sign Corrected



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: -48.472 ± 43.728 $\chi^2/\text{NDF}: 16.7/34$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

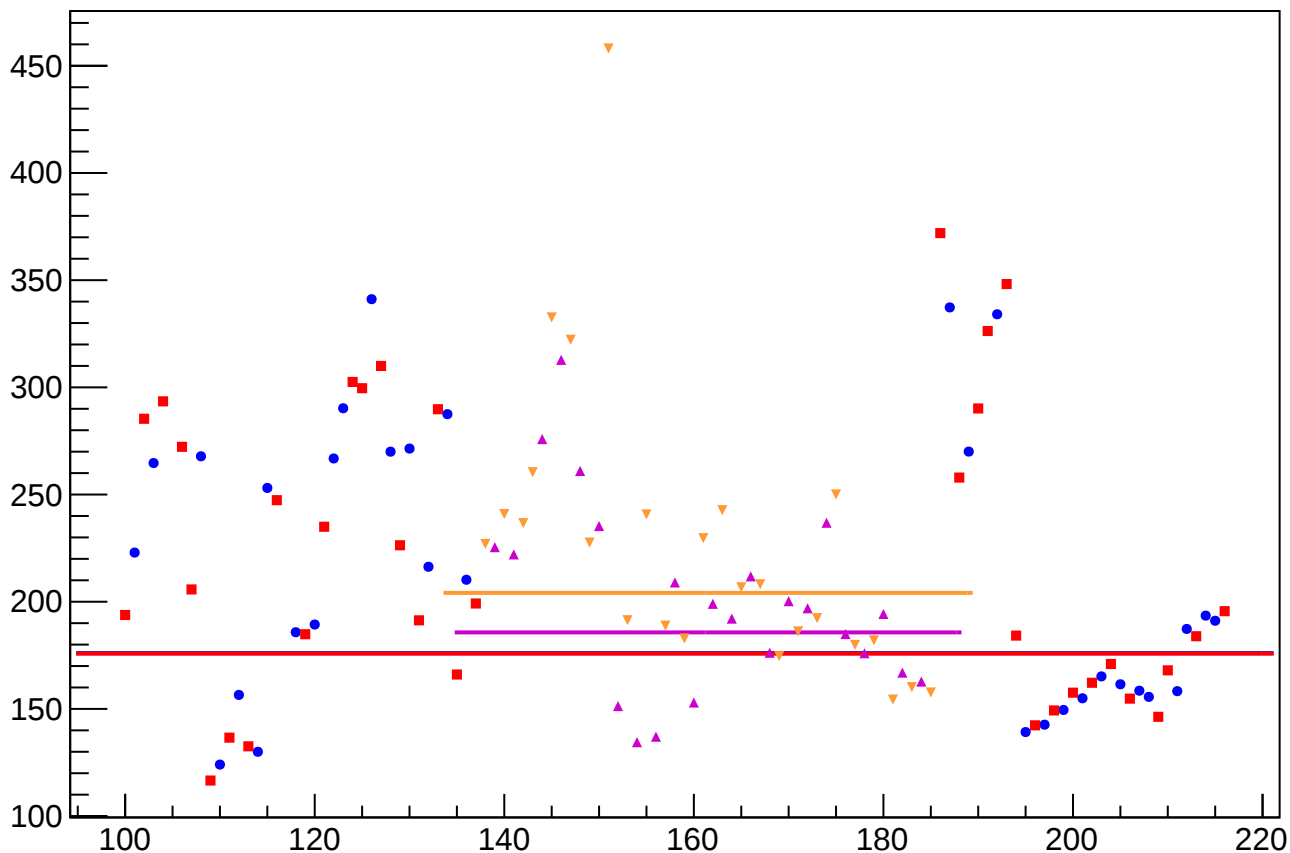
Right: -52.848 ± 30.943 $\chi^2/\text{NDF}: 34.2/66$

In: -12.704 ± 31.873 $\chi^2/\text{NDF}: 27.4/54$

Out: -21.531 ± 32.697 $\chi^2/\text{NDF}: 25.1/59$

All: -17.005 ± 22.823 $\chi^2/\text{NDF}: 52.4/114$

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: 175.782 $\pm$ 0.031 χ^2 /NDF: 2625547.5/34

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

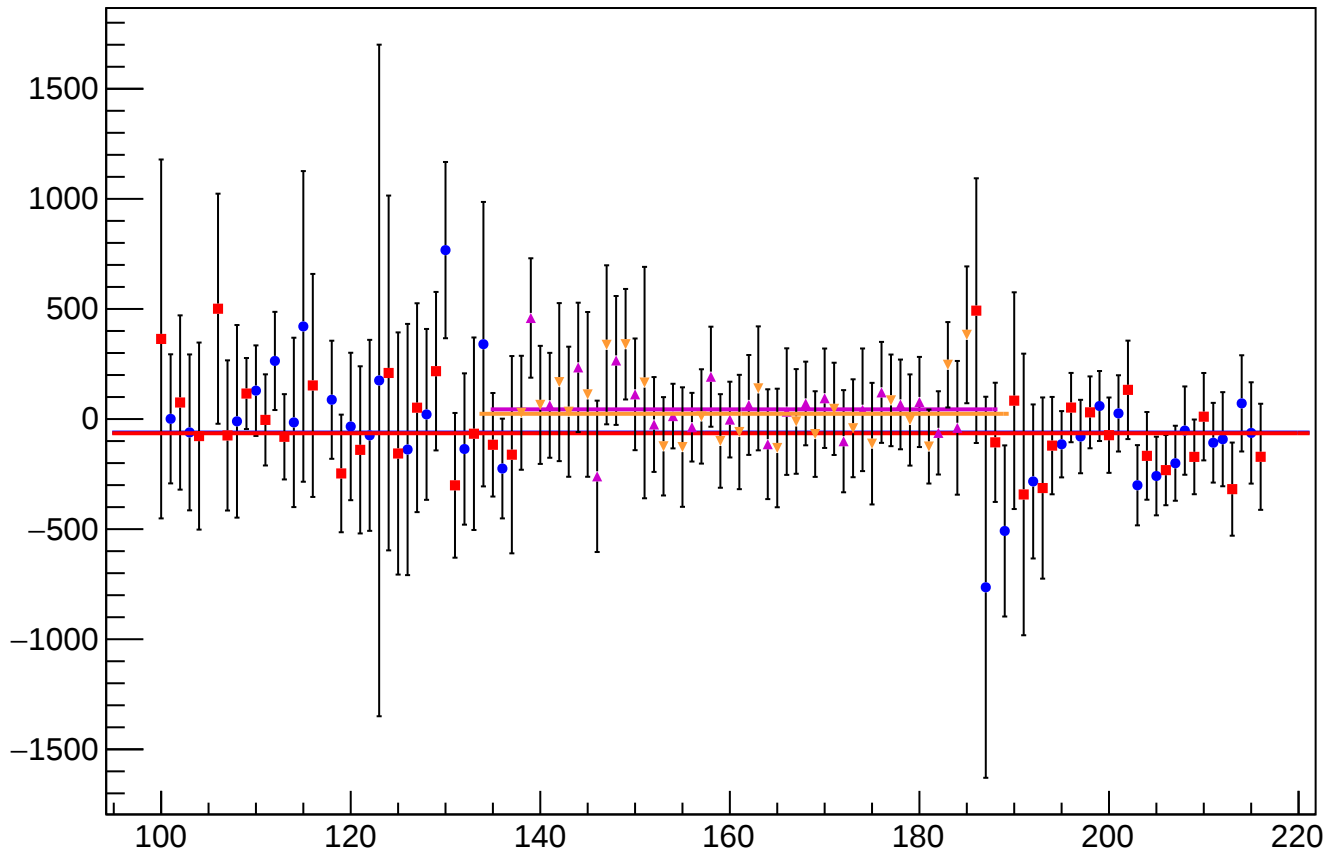
Right: 175.898 $\pm$ 0.022 χ^2 /NDF: 4681093.3/66

In: 180.566 $\pm$ 0.023 χ^2 /NDF: 3549238.3/54

Out: 188.281 $\pm$ 0.023 χ^2 /NDF: 4668468.6/59

All: 184.325 $\pm$ 0.016 χ^2 /NDF: 8274810.0/114

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -61.407 ± 43.256 $\chi^2/\text{NDF}: 16.6/31$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -64.485 ± 43.062 $\chi^2/\text{NDF}: 11.8/34$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

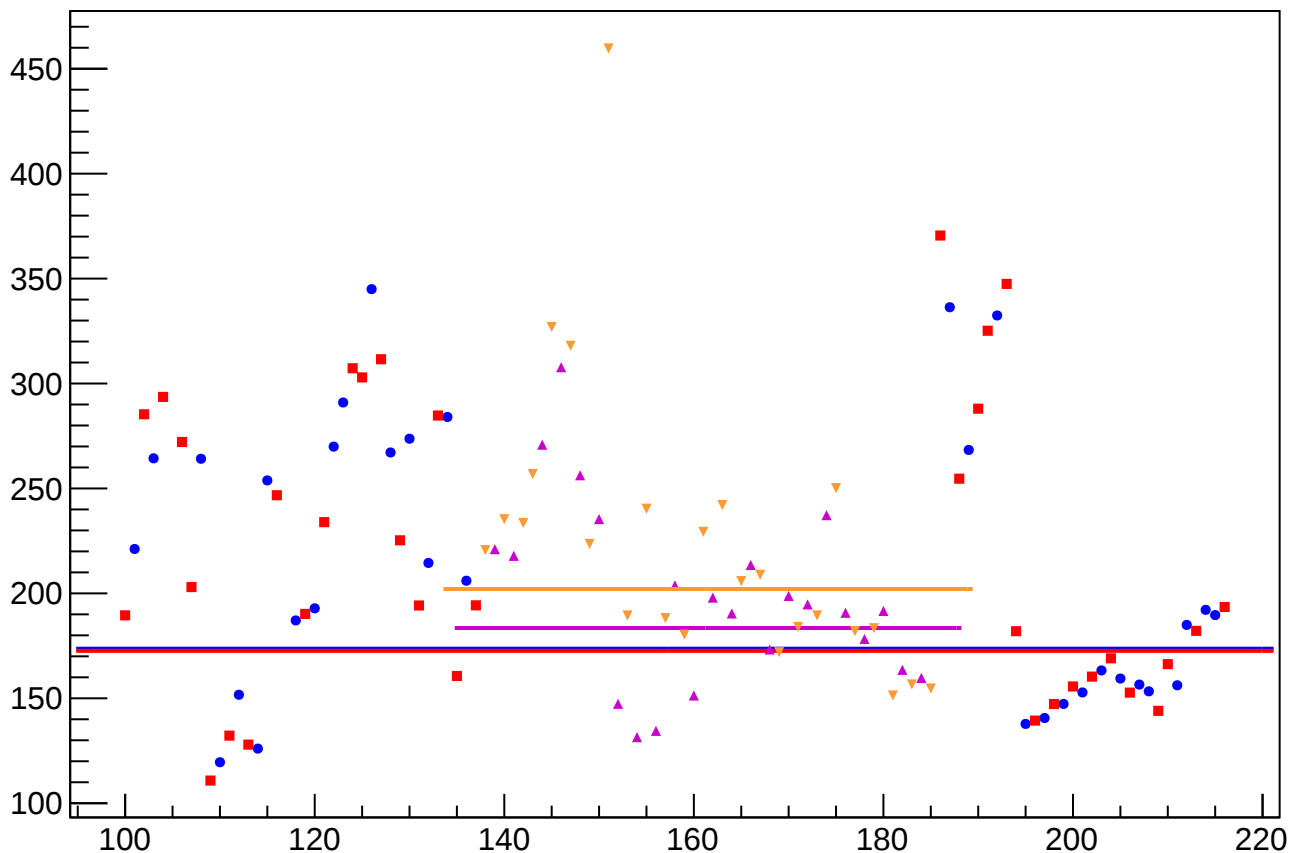
Right: -62.953 ± 30.518 $\chi^2/\text{NDF}: 28.4/66$

In: -11.929 ± 31.506 $\chi^2/\text{NDF}: 25.9/54$

Out: -25.801 ± 32.284 $\chi^2/\text{NDF}: 22.2/59$

All: -18.696 ± 22.548 $\chi^2/\text{NDF}: 48.2/114$

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: 172.620+/-0.030 χ^2/NDF : 2788360.7/34

Left In: 183.498+/-0.033 χ^2/NDF :1483383.4/22

Left: 192.240+/-0.024 χ^2/NDF : 3329846.6/47

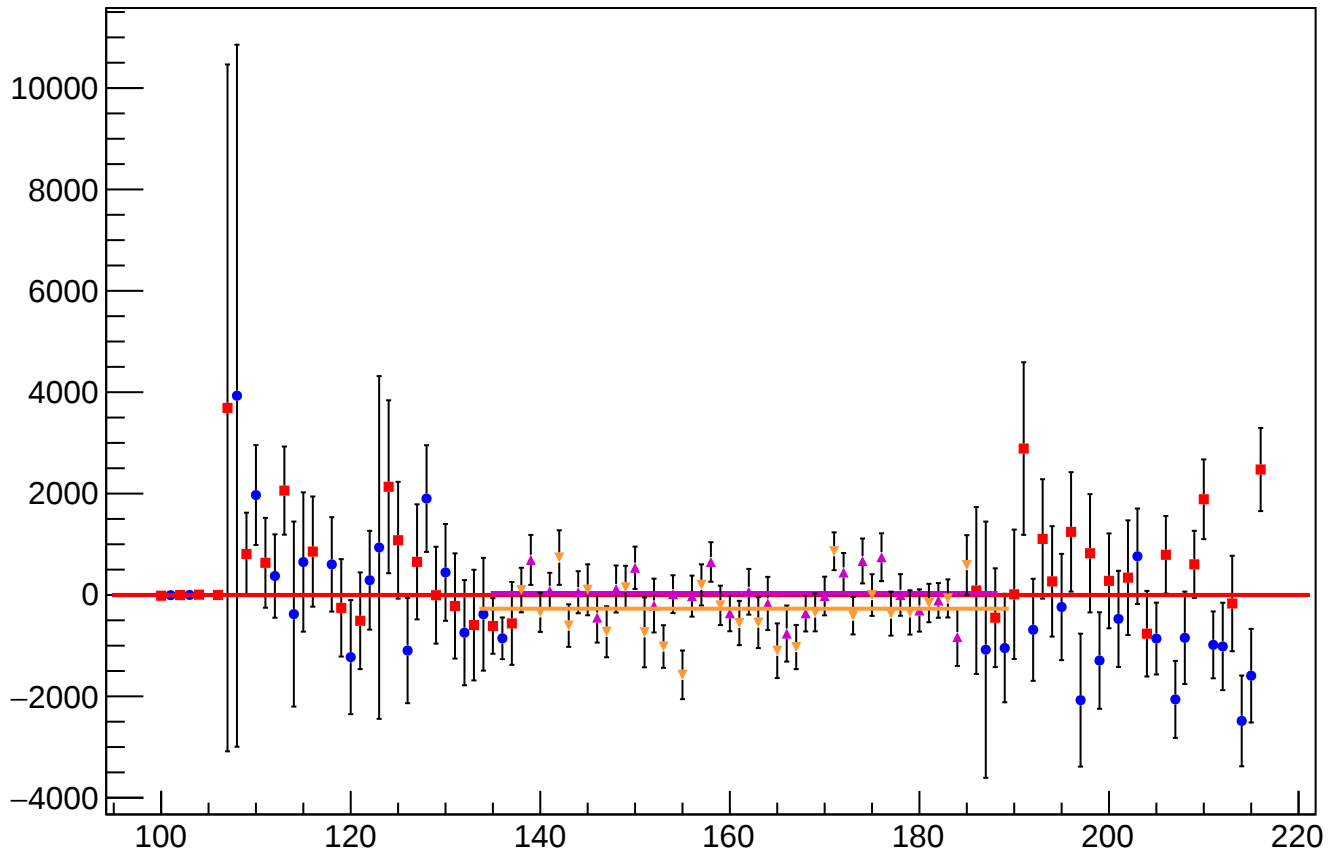
Right: 173.122+/-0.022 χ^2/NDF : 4929316.5/66

In: 178.262+/-0.022 χ^2/NDF :3672685.2/54

Out: 185.523+/-0.023 χ^2/NDF :4891105.1/59

All: 181.804+/-0.016 χ^2/NDF : 8615606.9/114

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.627 ± 2.251 χ^2/NDF : 48.3/31

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.779 ± 2.111 χ^2/NDF : 42.6/34

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

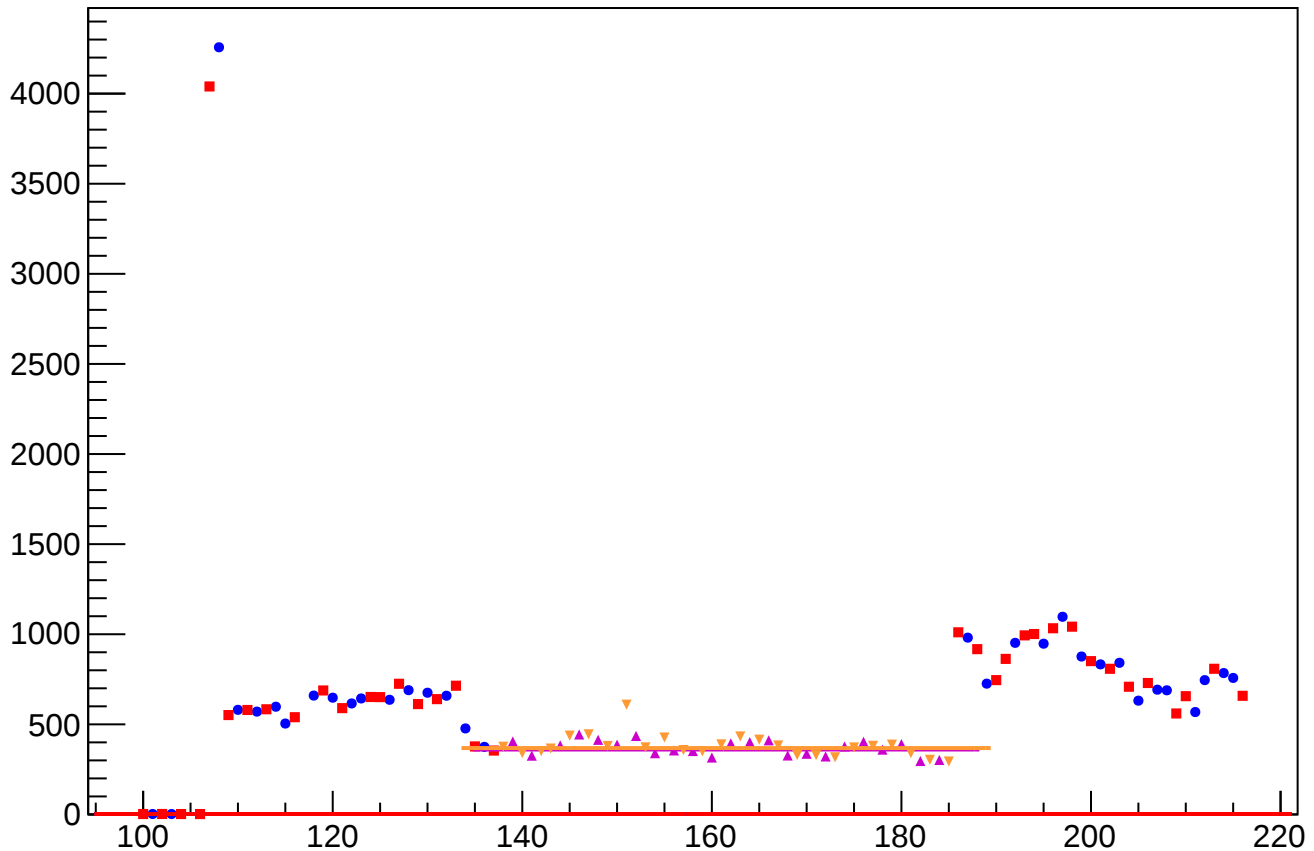
Right: -0.347 ± 1.540 χ^2/NDF : 91.4/66

In: -1.600 ± 2.251 χ^2/NDF : 68.7/54

Out: 0.619 ± 2.110 χ^2/NDF : 90.4/59

All: -0.419 ± 1.539 χ^2/NDF : 159.7/114

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.525 $\pm$ 0.002 χ^2 /NDF: 31804217.8/31

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.495 $\pm$ 0.001 χ^2 /NDF: 32437715.3/34

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

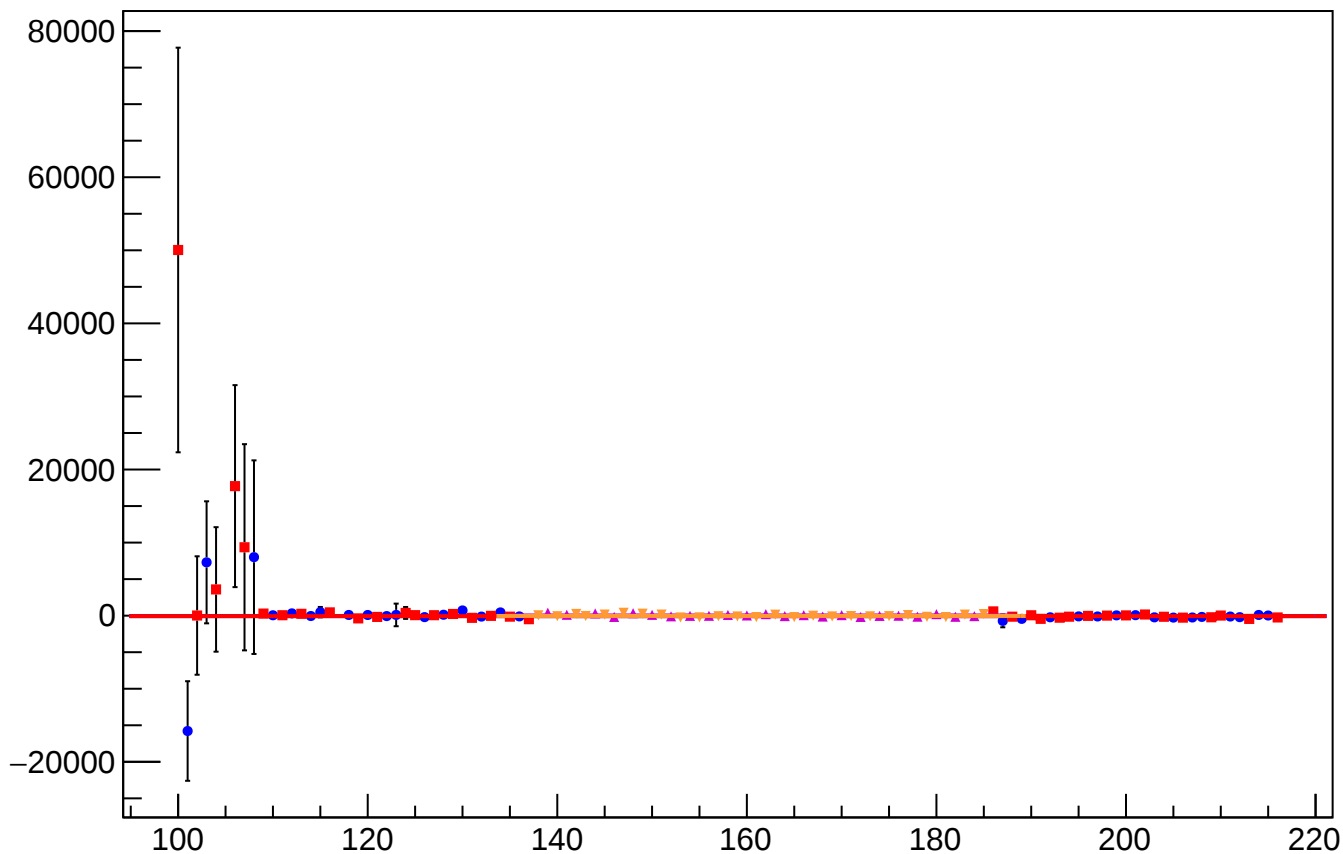
Right: 2.509 $\pm$ 0.001 χ^2 /NDF: 64242114.2/66

In: 2.760 $\pm$ 0.002 χ^2 /NDF: 65452749.9/54

Out: 2.711 $\pm$ 0.001 χ^2 /NDF: 68442862.3/59

All: 2.734 $\pm$ 0.001 χ^2 /NDF: 133896121.0/114

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: -62.735 $\pm$ 47.540 χ^2/NDF : 24.7/34

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

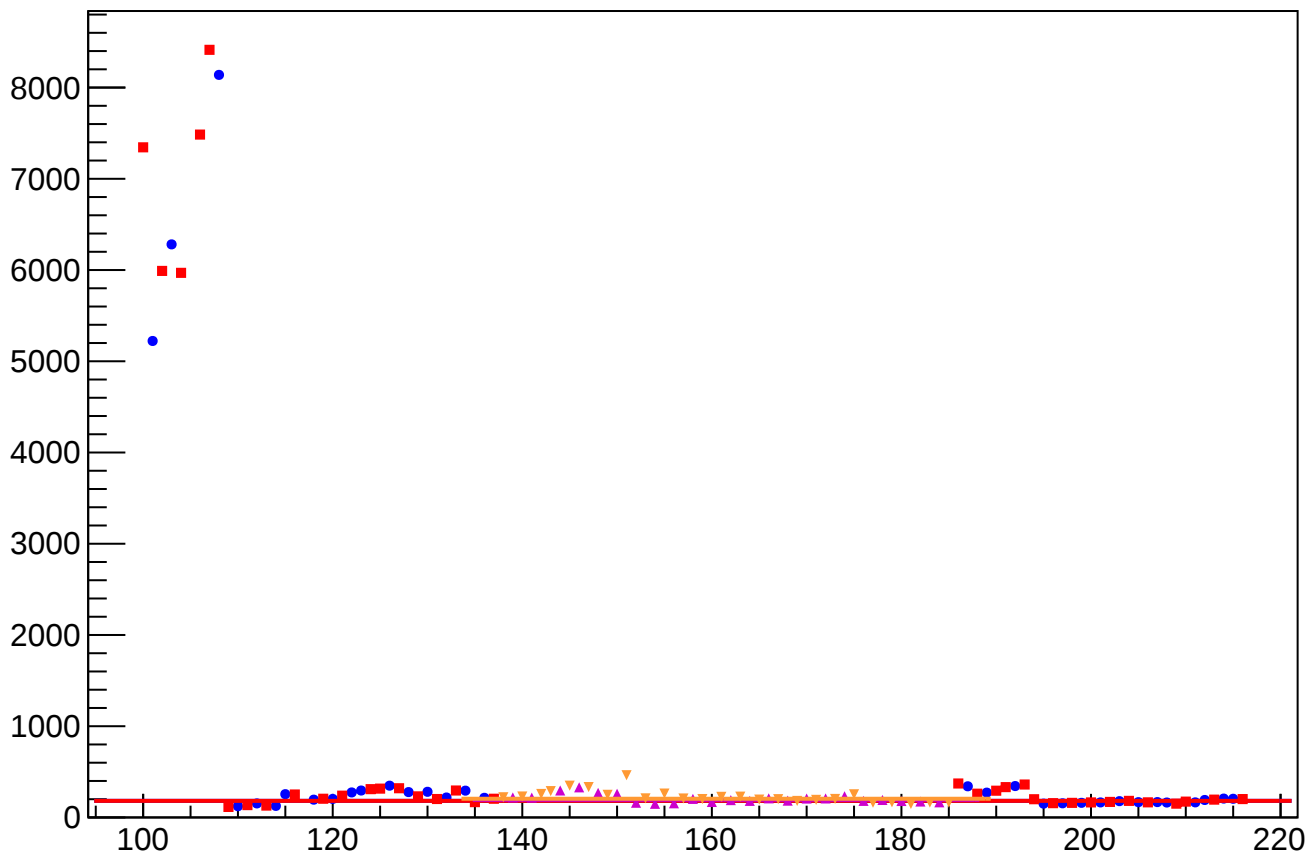
Right: -60.620 $\pm$ 33.458 χ^2/NDF : 46.7/66

In: -16.145 $\pm$ 33.674 χ^2/NDF : 32.8/54

Out: -50.905 $\pm$ 34.330 χ^2/NDF : 34.1/59

All: -33.190 $\pm$ 24.040 χ^2/NDF : 67.5/114

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.005 $\pm$ 0.033 χ^2 /NDF: 4580681.9/31

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 181.795 $\pm$ 0.034 χ^2 /NDF: 5437991.3/34

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

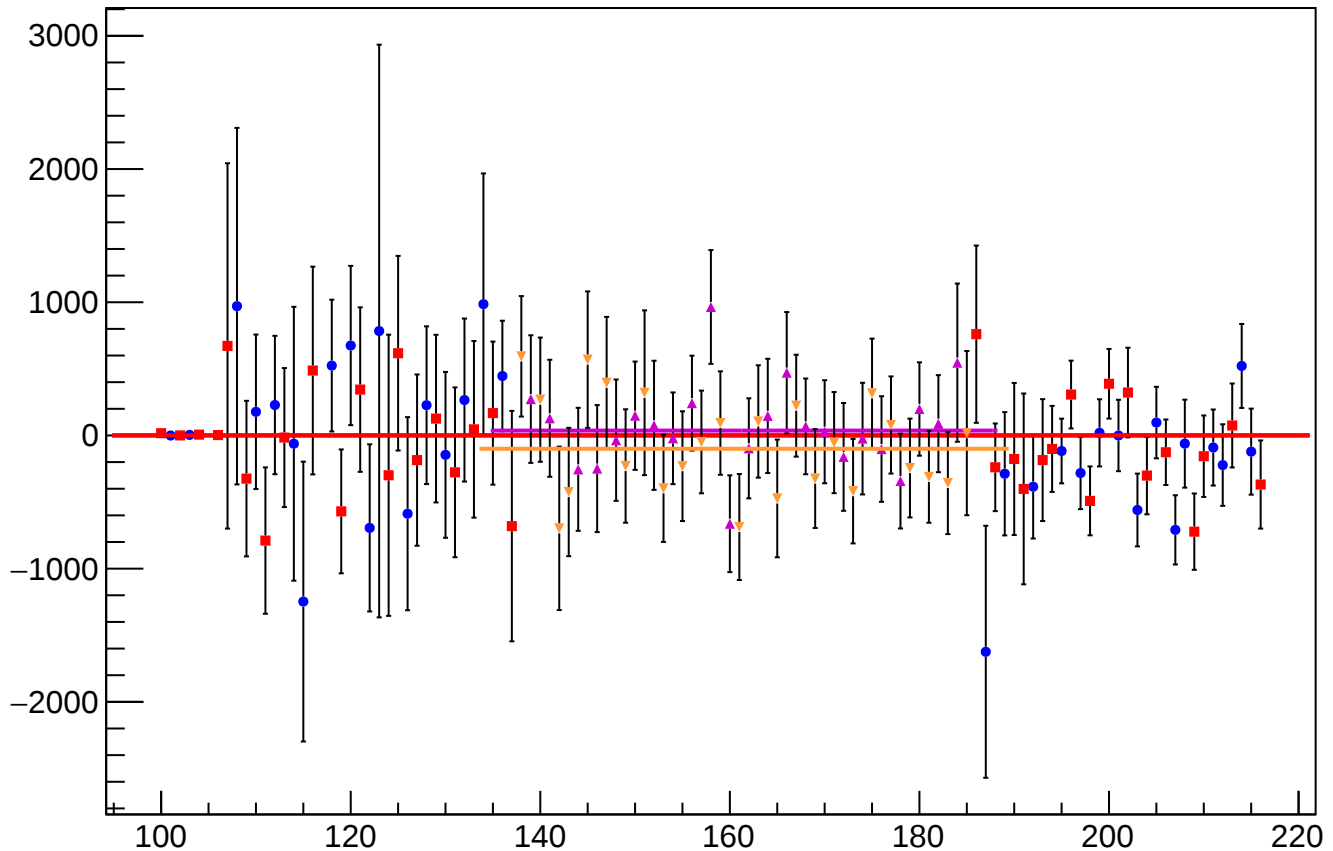
Right: 181.901 $\pm$ 0.024 χ^2 /NDF: 10018692.7/66

In: 187.576 $\pm$ 0.024 χ^2 /NDF:5810128.5/54

Out: 192.912 $\pm$ 0.024 χ^2 /NDF:7622580.3/59

All: 190.193 $\pm$ 0.017 χ^2 /NDF: 13457330.3/117

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.224 ± 1.736 χ^2/NDF : 31.0/31

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.279 ± 1.622 χ^2/NDF : 29.4/34

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

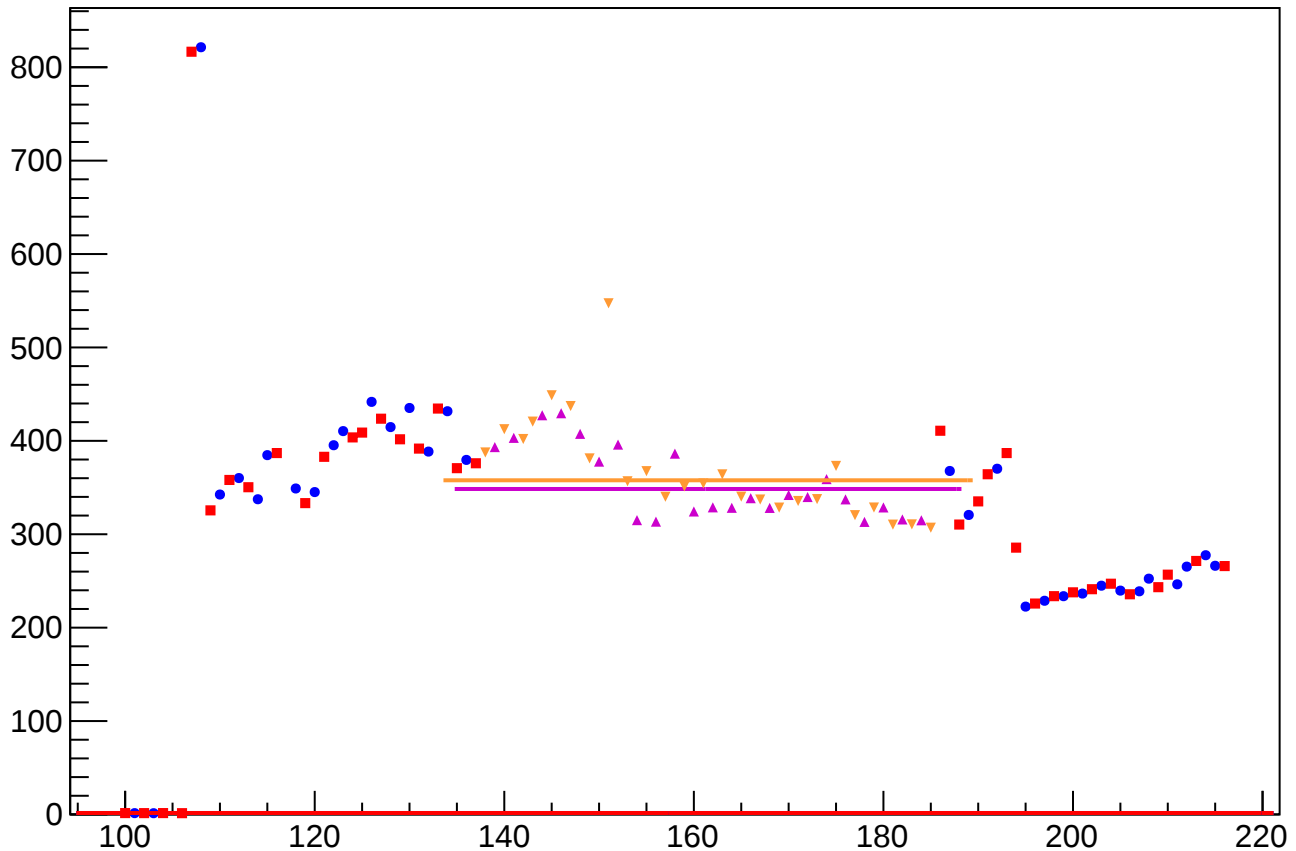
Right: 0.578 ± 1.185 χ^2/NDF : 60.7/66

In: -0.208 ± 1.736 χ^2/NDF : 44.7/54

Out: 1.241 ± 1.622 χ^2/NDF : 46.5/59

All: 0.566 ± 1.185 χ^2/NDF : 91.6/114

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.578+/-0.001 χ^2/NDF : 32076692.1/31

Left Out: 357.771+/-0.060 χ^2/NDF : 547124.8/24

Right Out: 1.557+/-0.001 χ^2/NDF : 32142526.1/34

Left In: 348.464+/-0.060 χ^2/NDF : 360425.7/22

Left: 353.145+/-0.042 χ^2/NDF : 919701.2/47

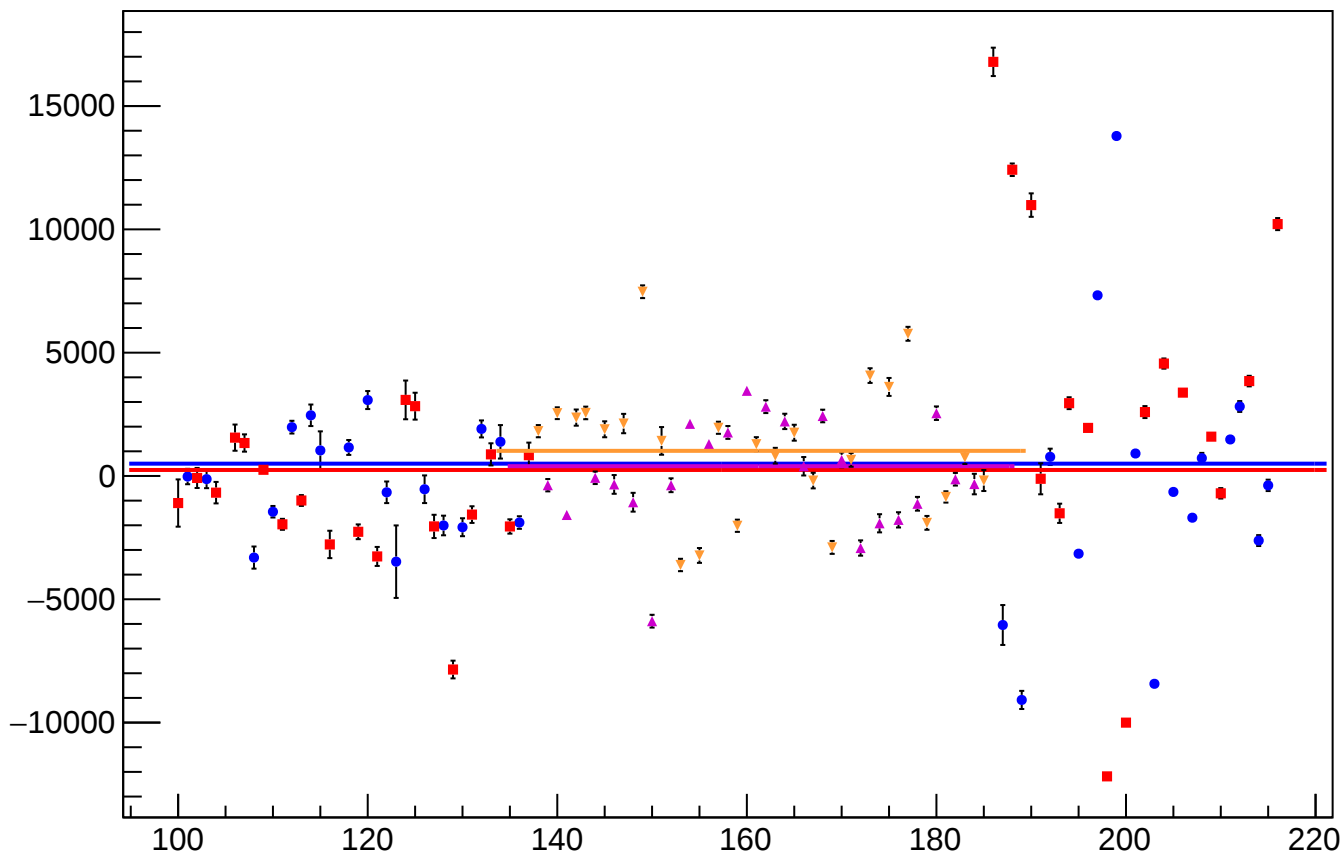
Right: 1.567+/-0.001 χ^2/NDF : 64219380.7/66

In: 1.724+/-0.001 χ^2/NDF : 65988282.1/54

Out: 1.689+/-0.001 χ^2/NDF : 68480609.9/59

All: 1.705+/-0.001 χ^2/NDF : 134469325.7/114

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 499.094+/-46.626 χ^2/NDF : 11173.1/31

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: 243.371+/-46.292 χ^2/NDF : 15416.6/34

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

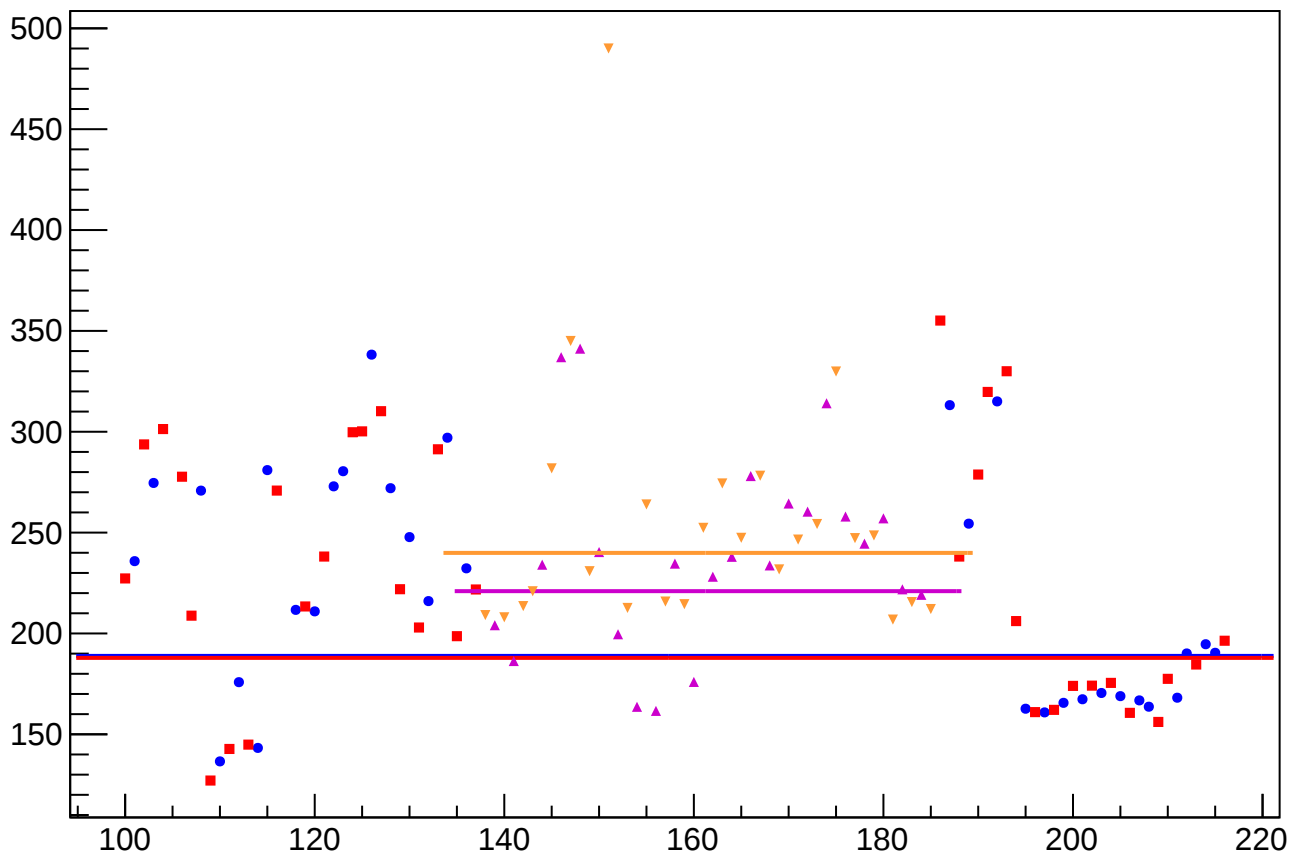
Right: 370.315+/-32.851 χ^2/NDF : 26604.8/66

In: 456.321+/-35.590 χ^2/NDF : 12756.1/54

Out: 549.016+/-36.034 χ^2/NDF : 17837.3/59

All: 502.093+/-25.322 χ^2/NDF : 30596.7/114

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: 187.892+/-0.033 χ^2/NDF : 2124150.4/34

Left In: 220.972+/-0.039 χ^2/NDF :1327680.6/22

Left: 230.067+/-0.028 χ^2/NDF : 2442154.9/47

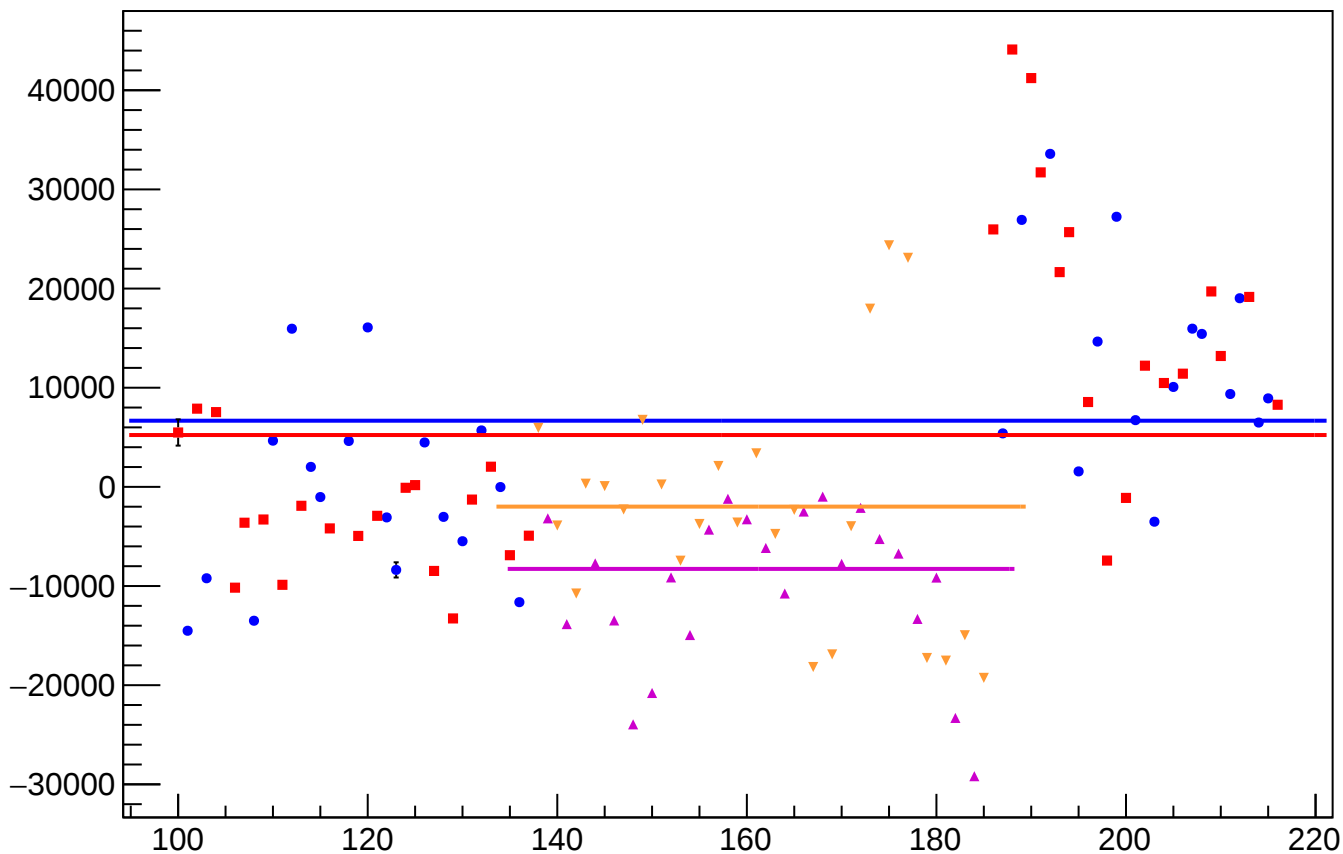
Right: 188.378+/-0.023 χ^2/NDF : 3671792.3/66

In: 202.269+/-0.025 χ^2/NDF :3270515.6/54

Out: 208.404+/-0.025 χ^2/NDF :4121310.6/59

All: 205.298+/-0.018 χ^2/NDF : 7421172.8/114

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: 5228.076+/-38.359 χ^2/NDF : 144170.6/34

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

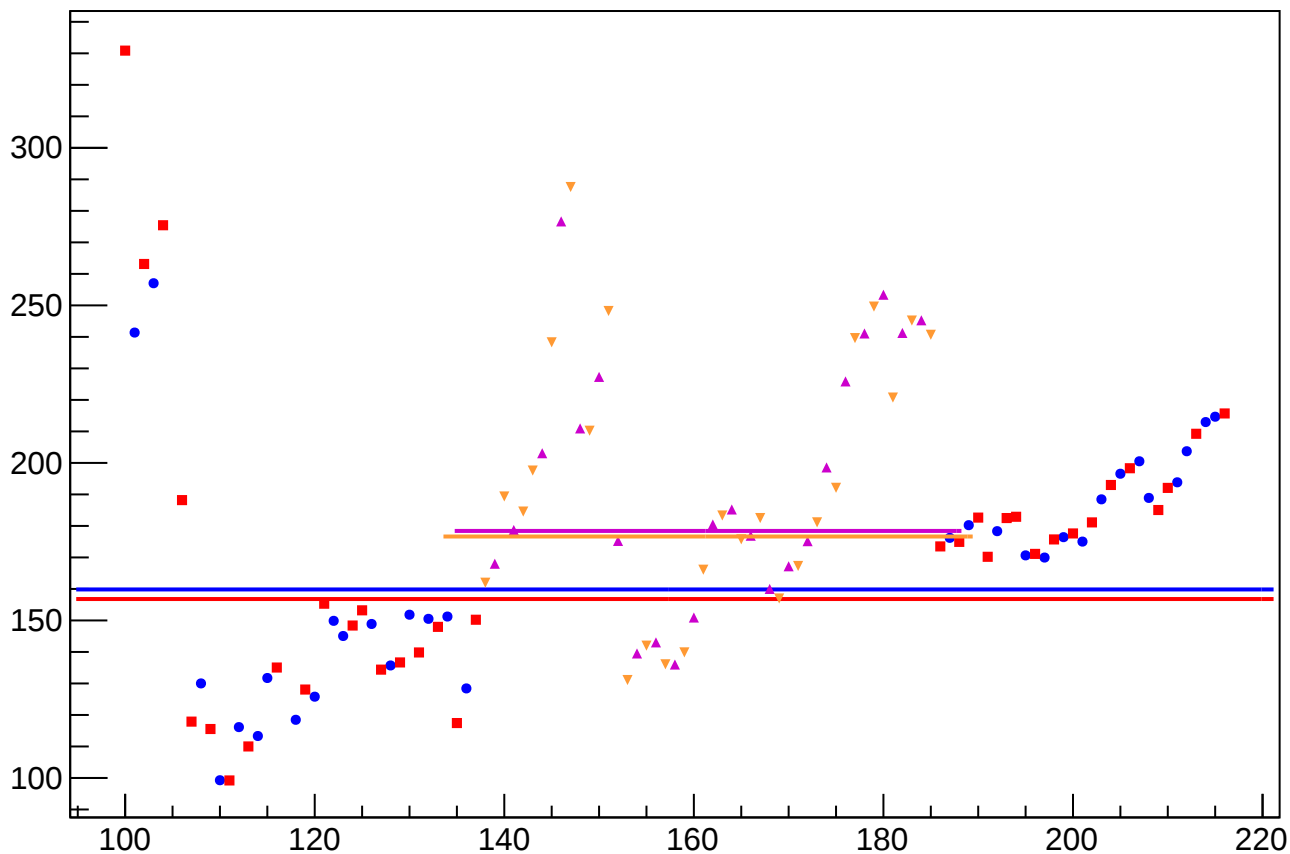
Right: 5926.324+/-27.571 χ^2/NDF : 238627.7/66

In: 24.331+/-29.547 χ^2/NDF : 179830.3/54

Out: 1980.763+/-28.454 χ^2/NDF : 223871.0/59

All: 1039.405+/-20.495 χ^2/NDF : 405976.0/11

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: 156.797+/-0.027 χ^2/NDF : 1829154.3/34

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

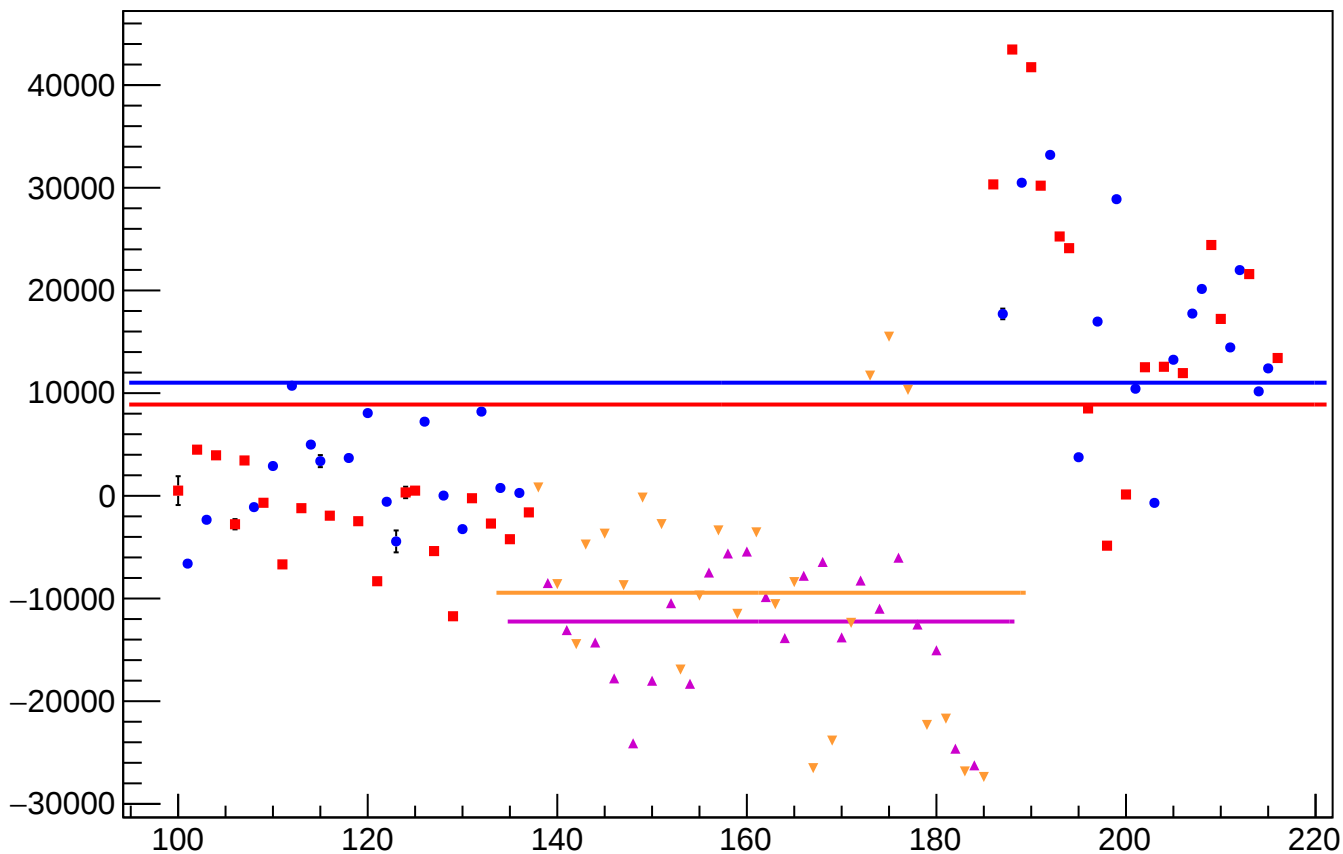
Right: 158.268+/-0.019 χ^2/NDF : 3461171.2/66

In: 168.101+/-0.021 χ^2/NDF :3114855.1/54

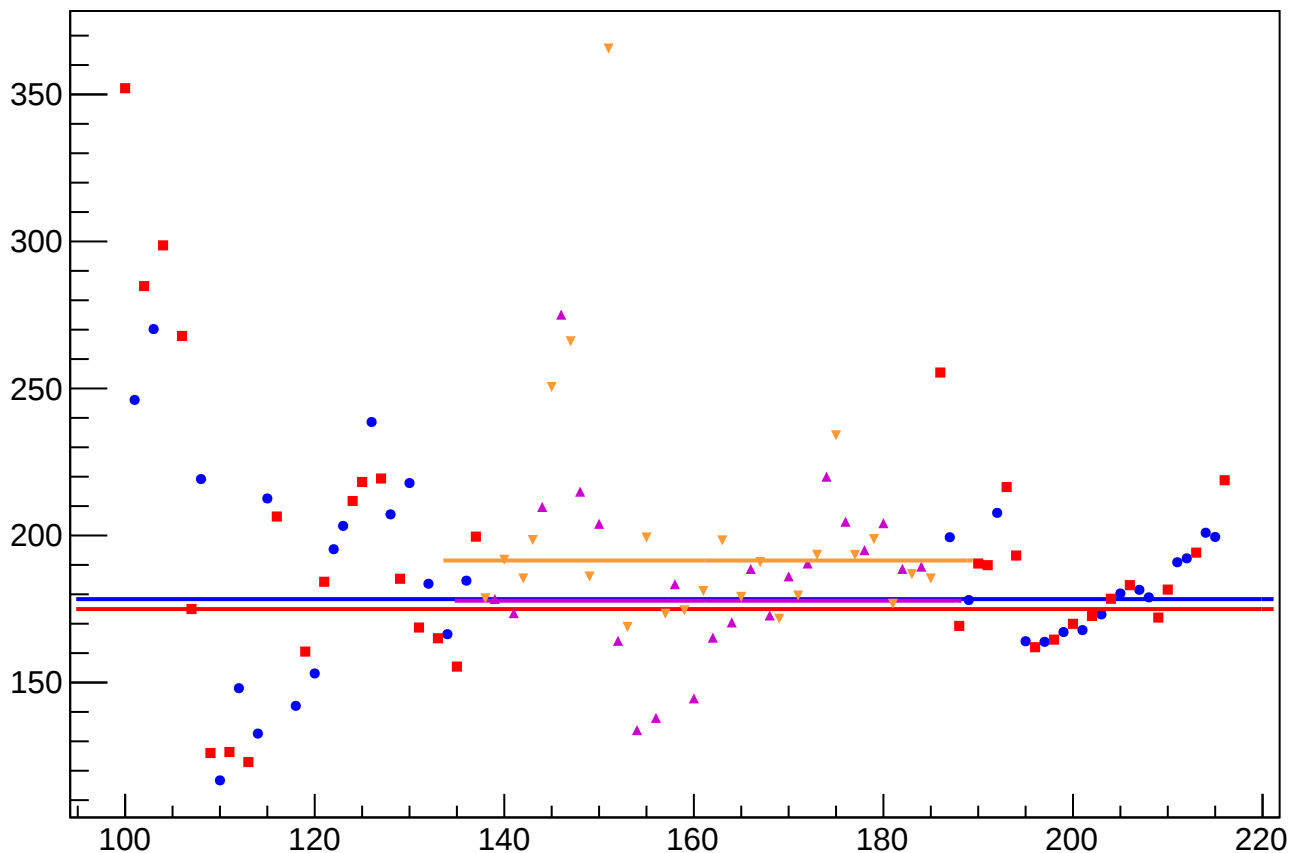
Out: 165.722+/-0.020 χ^2/NDF :3620942.7/59

All: 166.867+/-0.014 χ^2/NDF : 6742526.7/114

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.360 ± 0.031 $\chi^2/\text{NDF}: 819184.8/31$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 174.976 ± 0.030 $\chi^2/\text{NDF}: 1204608.1/34$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

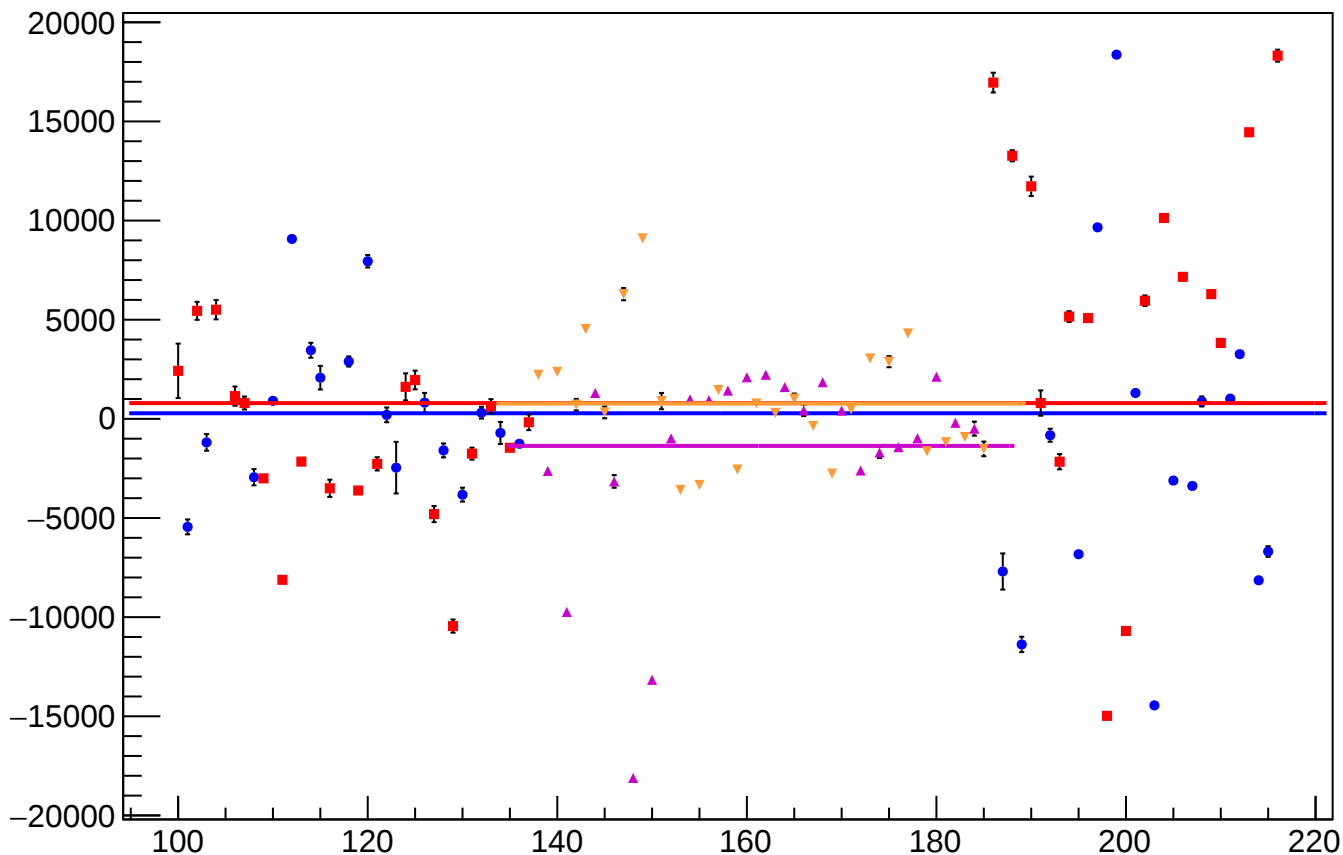
Right: 176.620 ± 0.021 $\chi^2/\text{NDF}: 2029993.3/66$

In: 178.093 ± 0.022 $\chi^2/\text{NDF}: 1681830.6/54$

Out: 182.645 ± 0.022 $\chi^2/\text{NDF}: 2073167.6/59$

All: 180.364 ± 0.015 $\chi^2/\text{NDF}: 3776589.1/114$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 282.412+/-48.813 χ^2/NDF : 22329.3/31

Left Out: 779.983+/-47.457 χ^2/NDF :4260.8/24

Right Out: 795.328+/-47.652 χ^2/NDF : 28417.2/34

Left In: -1363.043+/-45.807 χ^2/NDF :11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

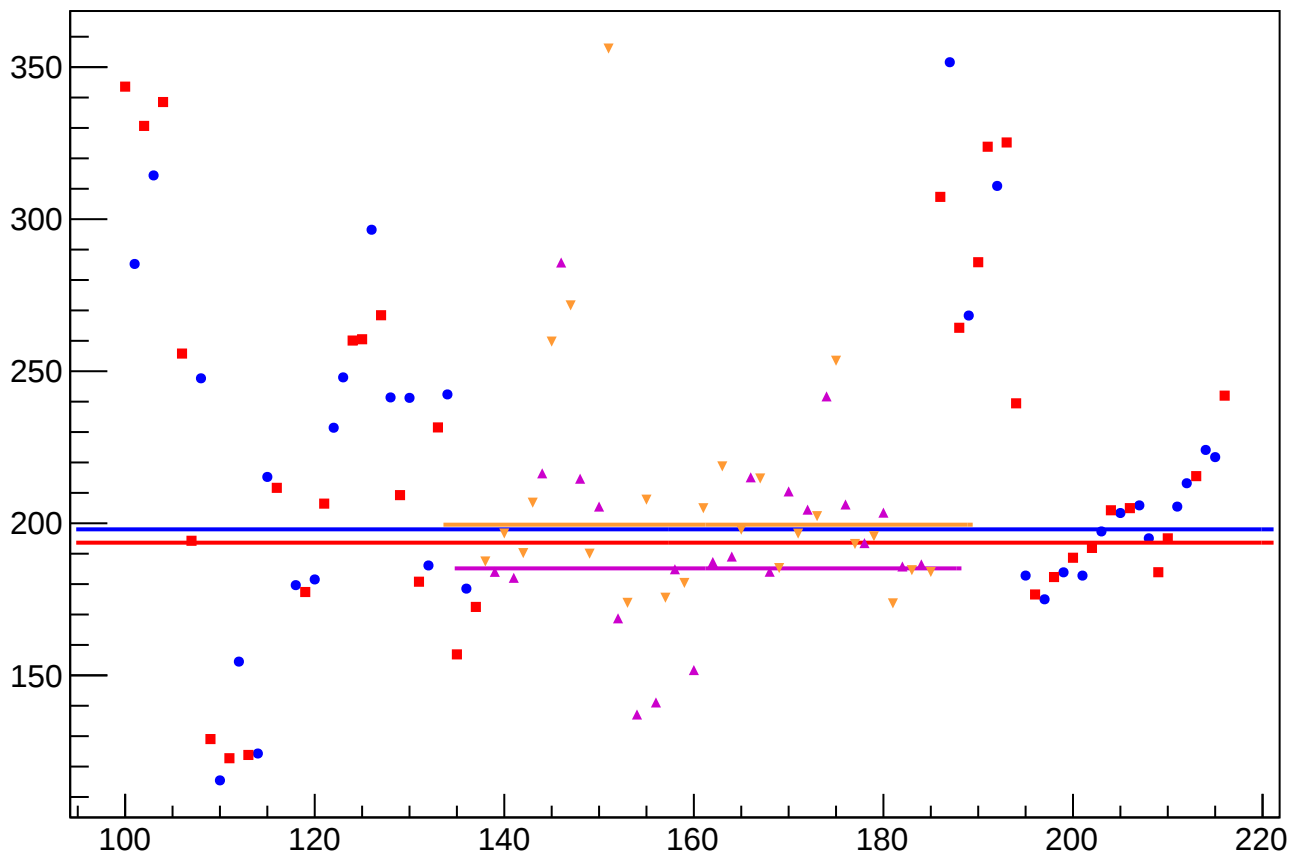
Right: 545.038+/-34.098 χ^2/NDF : 50803.0/66

In: -592.538+/-33.402 χ^2/NDF :34566.4/54

Out: 787.624+/-33.626 χ^2/NDF :32678.0/59

All: 92.934+/-23.698 χ^2/NDF : 68092.3/114

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: 193.625 ± 0.034 $\chi^2/\text{NDF}: 2215673.2/34$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

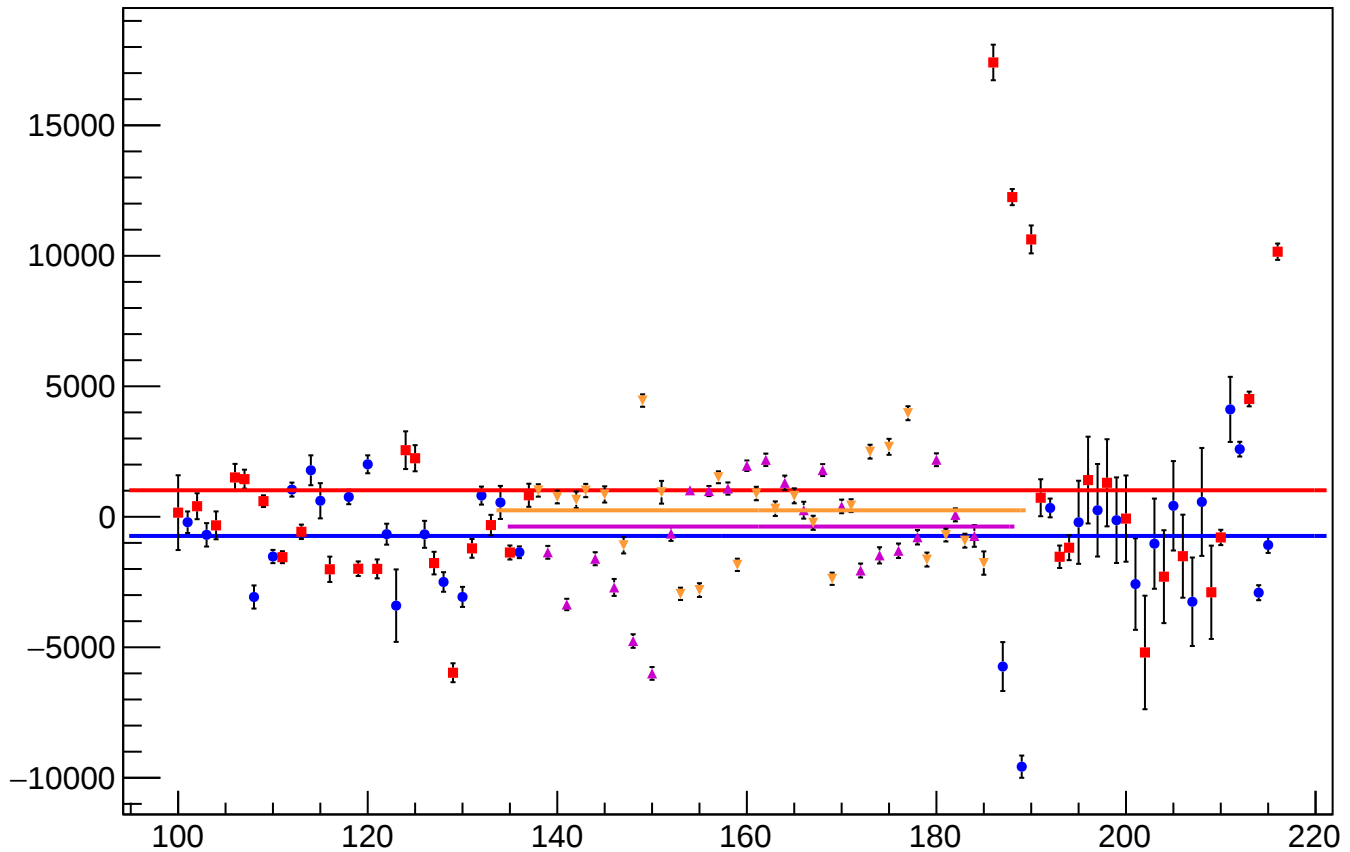
Right: 195.764 ± 0.024 $\chi^2/\text{NDF}: 3692302.9/66$

In: 191.182 ± 0.024 $\chi^2/\text{NDF}: 2424683.8/54$

Out: 196.598 ± 0.024 $\chi^2/\text{NDF}: 2960537.8/59$

All: 193.872 ± 0.017 $\chi^2/\text{NDF}: 5411334.7/114$

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: 1015.856 ± 68.610 $\chi^2/\text{NDF}: 4295.2/34$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

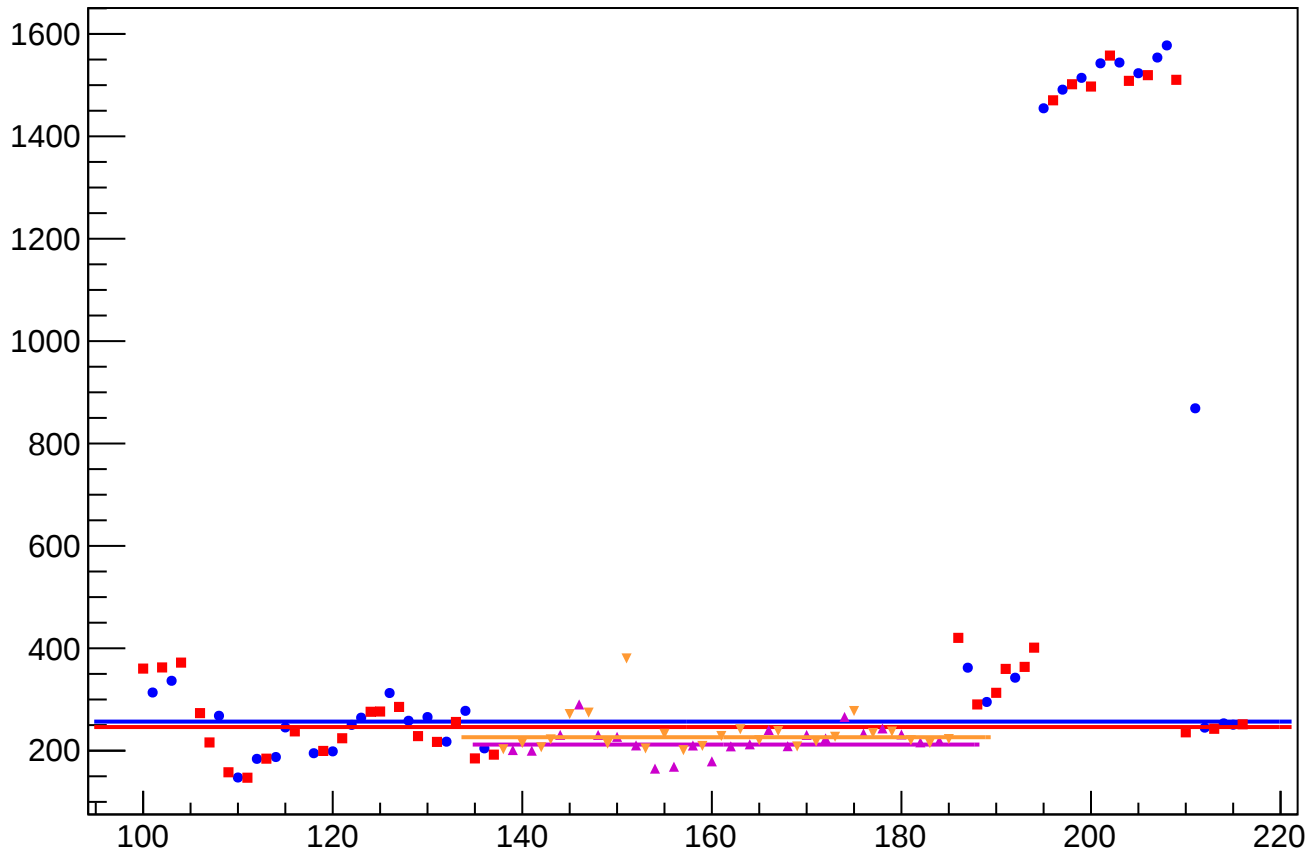
Right: 213.852 ± 50.490 $\chi^2/\text{NDF}: 5570.5/66$

In: -491.849 ± 42.680 $\chi^2/\text{NDF}: 2793.9/54$

Out: 538.617 ± 42.217 $\chi^2/\text{NDF}: 5728.1/59$

All: 29.011 ± 30.014 $\chi^2/\text{NDF}: 8816.7/114$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.836+/-0.053 χ^2/NDF : 10146968.3/31

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 246.170+/-0.049 χ^2/NDF : 9273928.5/34

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

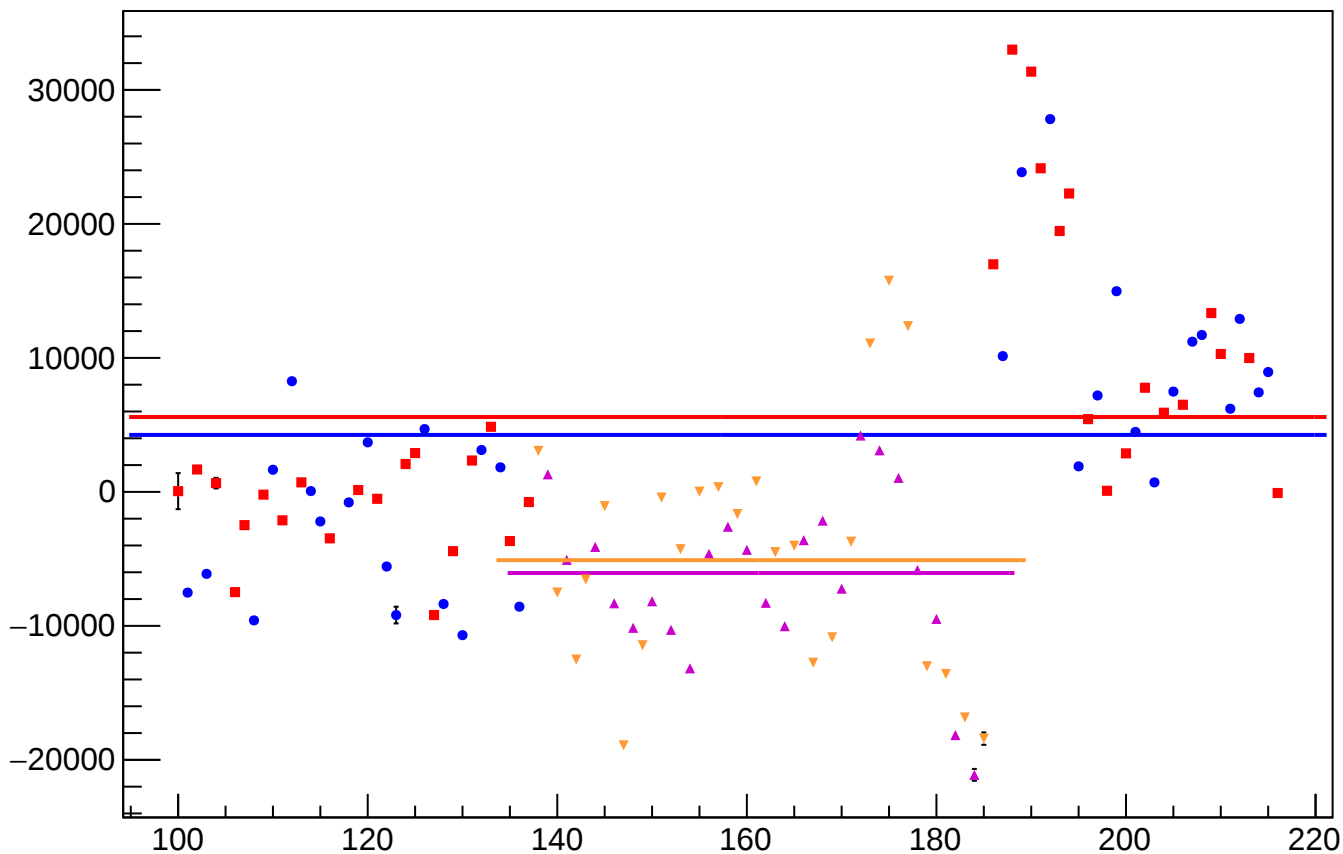
Right: 251.060+/-0.036 χ^2/NDF : 19443058.9/66

In: 226.668+/-0.030 χ^2/NDF : 11218155.1/54

Out: 233.836+/-0.030 χ^2/NDF : 9898974.1/59

All: 230.291+/-0.021 χ^2/NDF : 21145642.8/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4252.380+/-33.717 χ^2/NDF : 80123.8/31

Left Out: -5095.305+/-33.703 χ^2/NDF :54395.4/24

Right Out: 5587.122+/-32.382 χ^2/NDF : 104525.7/34

Left In: -6053.569+/-34.998 χ^2/NDF :17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

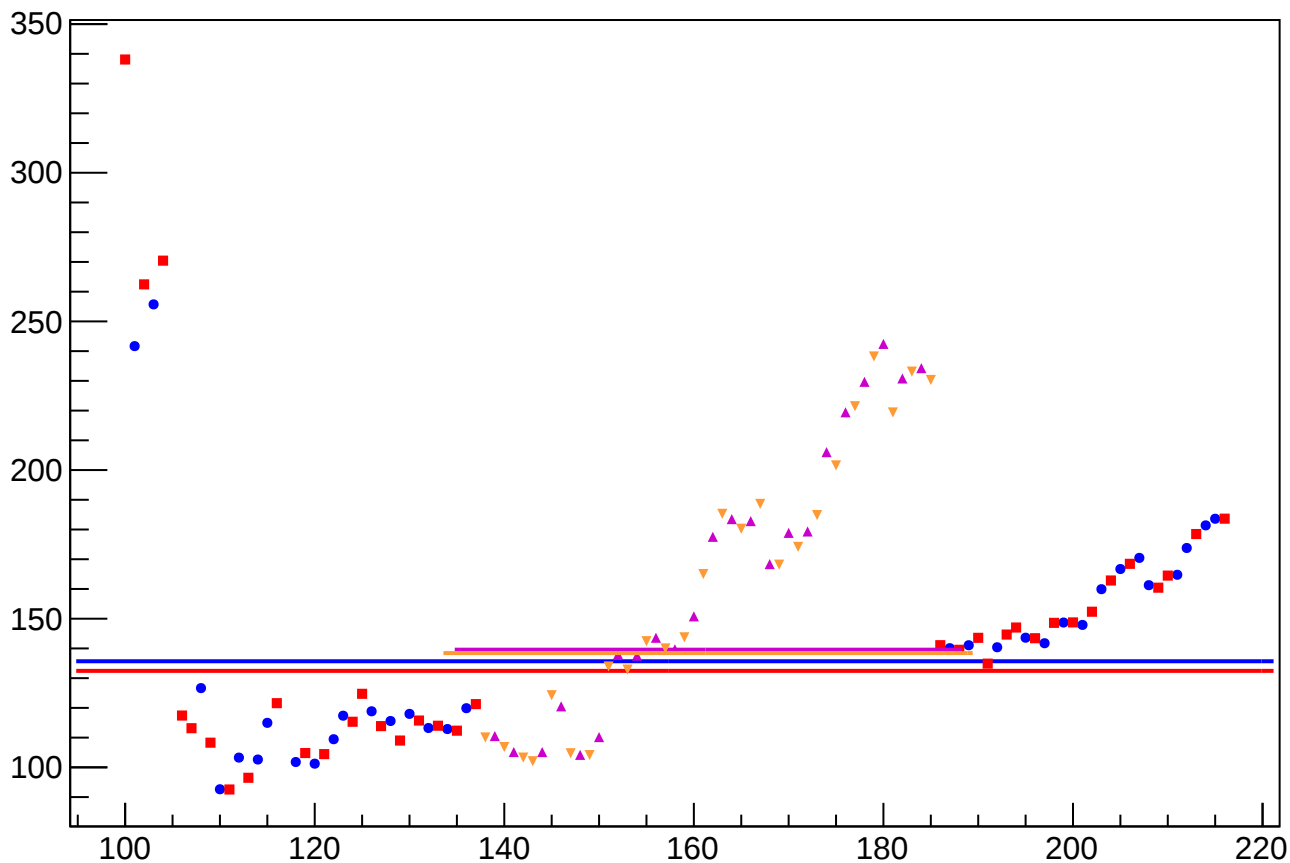
Right: 4946.698+/-23.356 χ^2/NDF : 185464.7/66

In: -708.589+/-24.282 χ^2/NDF :142686.5/54

Out: 459.368+/-23.351 χ^2/NDF :211158.3/59

All: -101.790+/-16.831 χ^2/NDF : 355046.8/111

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 135.684 $\pm$ 0.024 χ^2/NDF : 1632037.2/31

Left Out: 138.436 $\pm$ 0.024 χ^2/NDF : 2549435.8/24

Right Out: 132.454 $\pm$ 0.023 χ^2/NDF : 1687712.1/34

Left In: 139.578 $\pm$ 0.025 χ^2/NDF : 2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2/NDF : 4964199.7/47

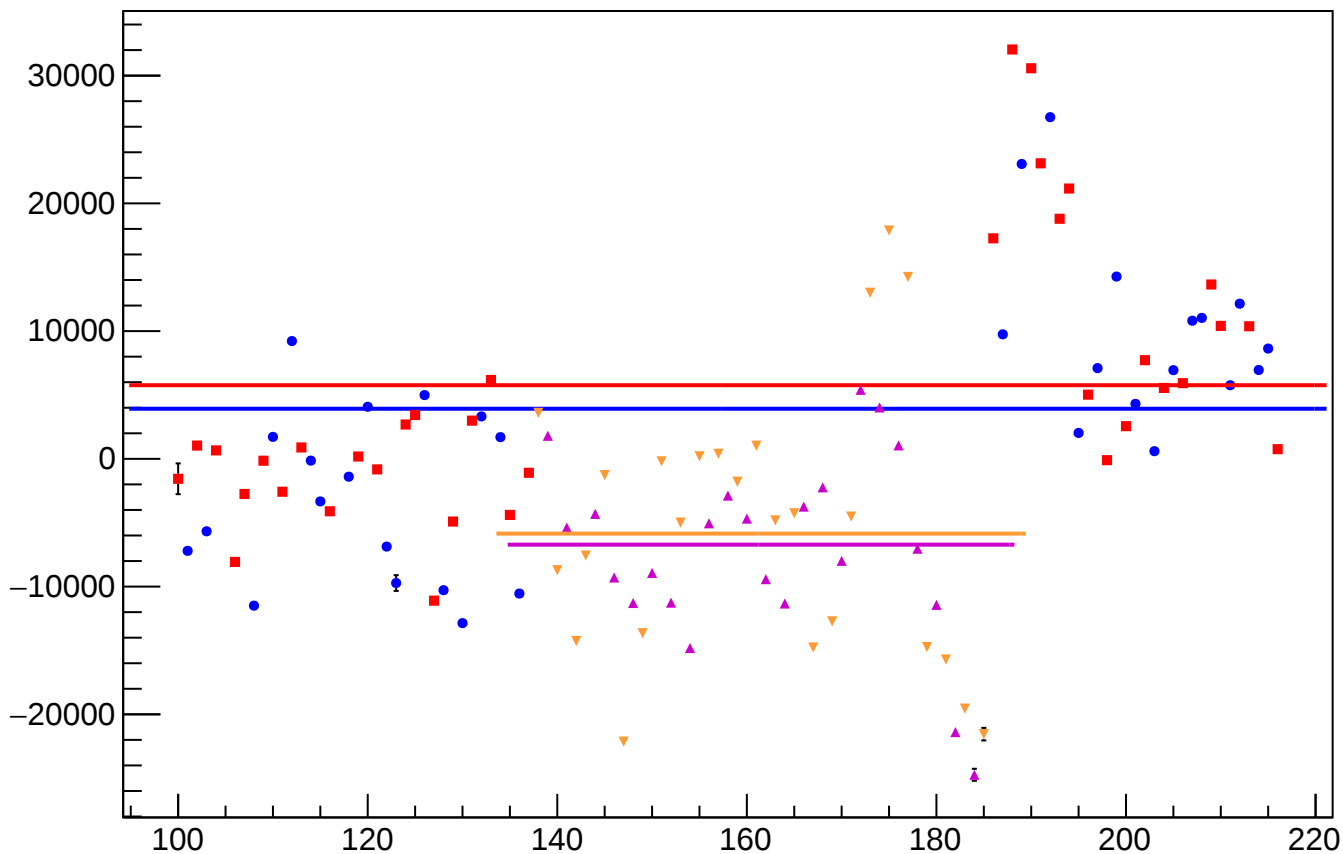
Right: 134.004 $\pm$ 0.017 χ^2/NDF : 3329297.3/66

In: 137.558 $\pm$ 0.017 χ^2/NDF : 4058535.5/54

Out: 135.325 $\pm$ 0.017 χ^2/NDF : 4269907.2/59

All: 136.398 $\pm$ 0.012 χ^2/NDF : 8337230.6/114

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: 4876.326 +/- 23.362

χ^2/NDF : 192026.4/66

Right Out: 5764.837 +/- 32.469

χ^2/NDF : 105206.3/34

In: -853.798 +/- 24.974

χ^2/NDF : 151115.7/54

Out: 534.369 +/- 24.075

χ^2/NDF : 226254.6/59

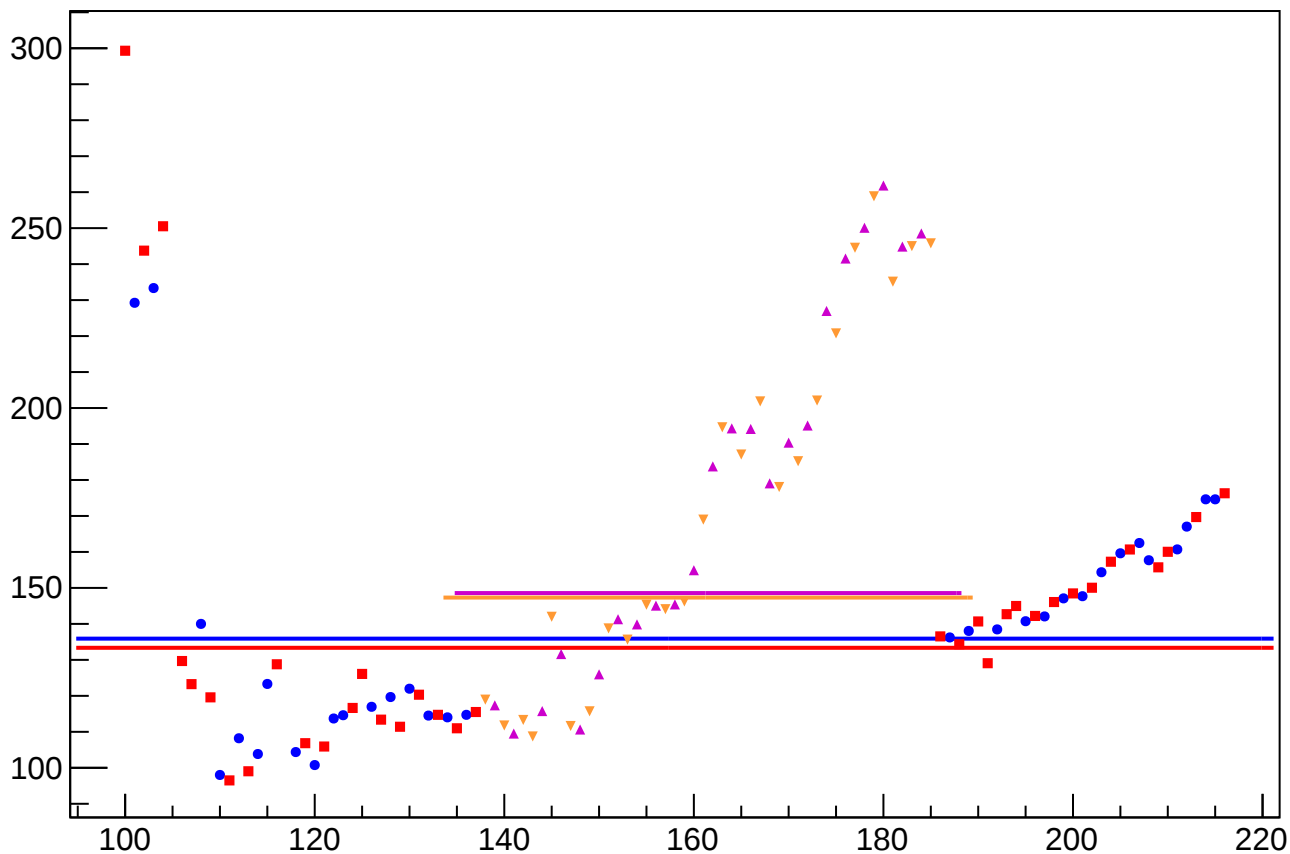
Left In: -6718.475 +/- 37.276

χ^2/NDF : 20934.3/22

All: -134.289 +/- 17.333

χ^2/NDF : 378971.8/111

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: 133.357 $\pm$ 0.023 χ^2/NDF : 1307442.8/34

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

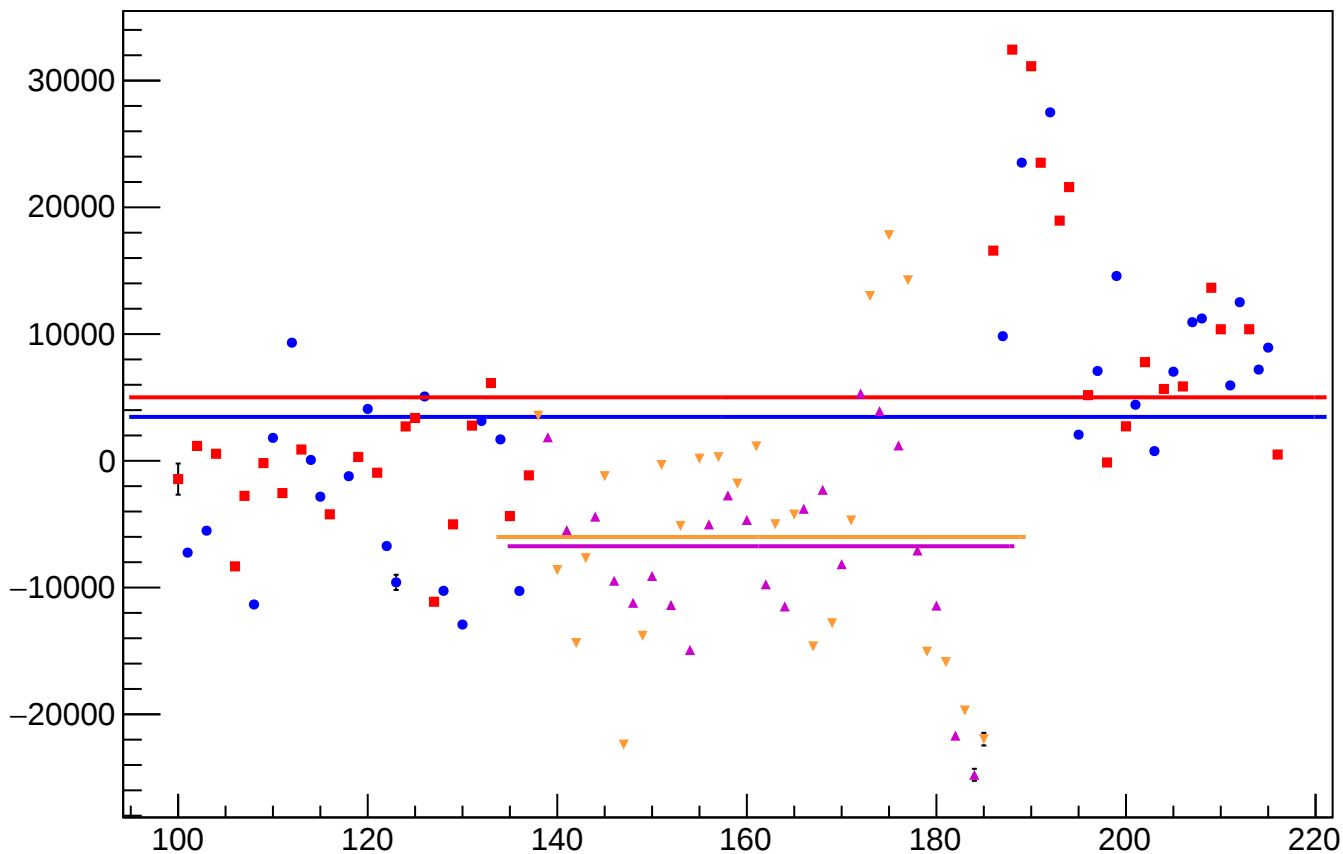
Right: 134.585 $\pm$ 0.017 χ^2/NDF : 2599064.4/66

In: 141.588 $\pm$ 0.018 χ^2/NDF : 3806128.1/54

Out: 139.642 $\pm$ 0.017 χ^2/NDF : 3985573.4/59

All: 140.580 $\pm$ 0.012 χ^2/NDF : 7797995.2/114

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3464.844+/-33.720

χ^2/NDF : 85119.5/31

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right: 4265.526+/-23.410

χ^2/NDF : 186334.4/66

Right Out: 5010.488+/-32.526

χ^2/NDF : 100126.5/34

In: -1251.305+/-24.730

χ^2/NDF : 149521.0/54

Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

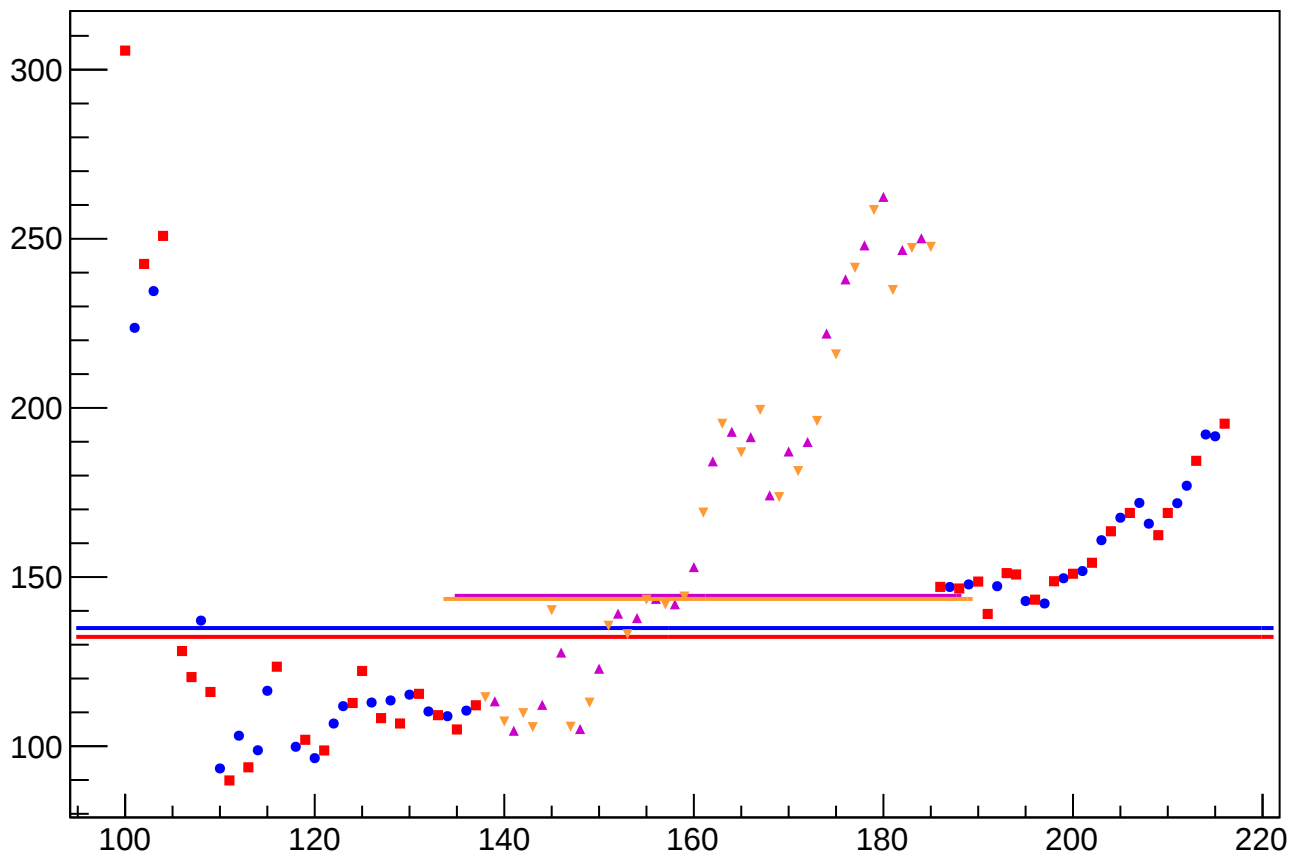
Out: -83.541+/-23.852

χ^2/NDF : 221043.9/59

All: -646.310+/-17.168

χ^2/NDF : 371720.1/111

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: 132.310 $\pm$ 0.023 χ^2 /NDF: 1867609.4/34

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

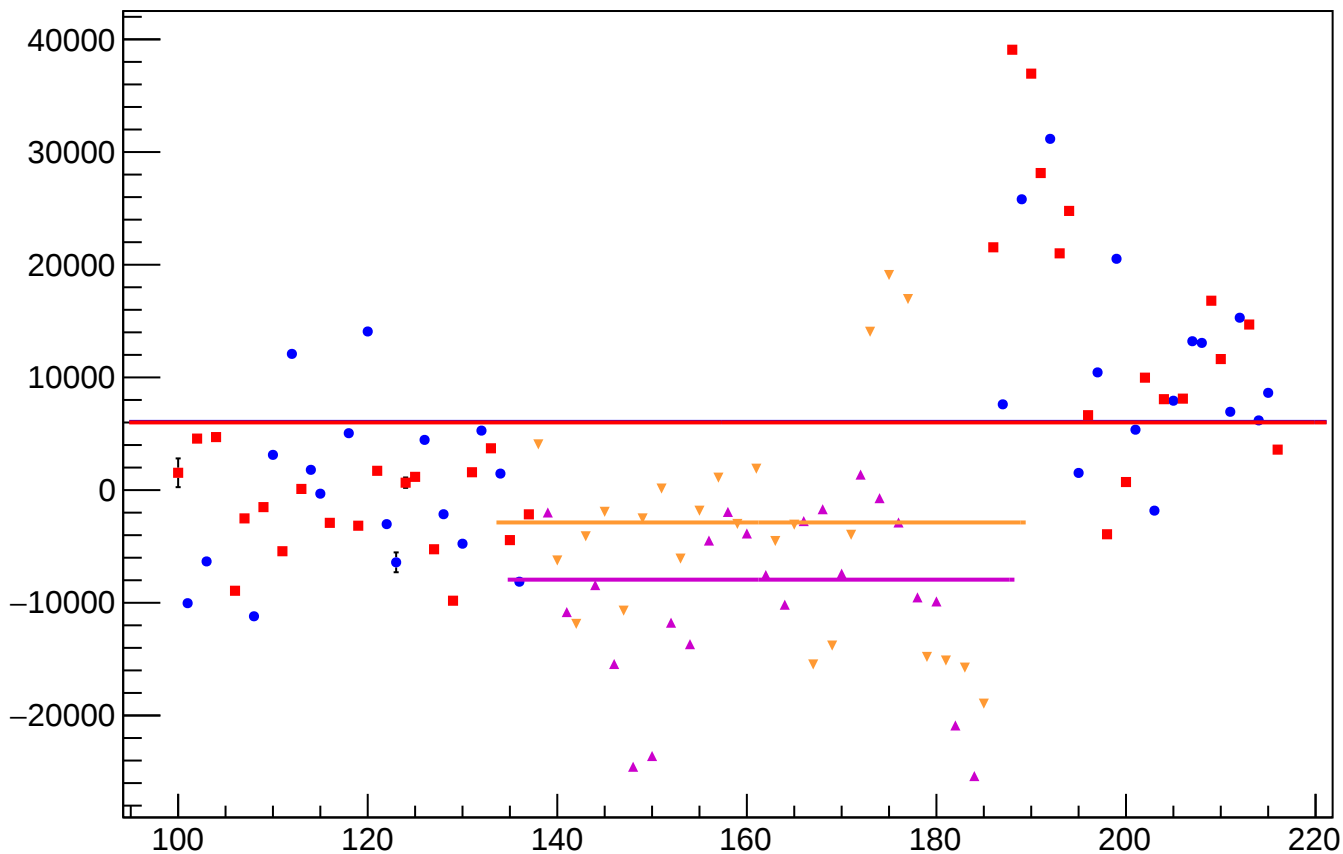
Right: 133.569 $\pm$ 0.017 χ^2 /NDF: 3698076.2/66

In: 139.320 $\pm$ 0.017 χ^2 /NDF: 4484800.4/54

Out: 137.497 $\pm$ 0.017 χ^2 /NDF: 4682423.8/59

All: 138.376 $\pm$ 0.012 χ^2 /NDF: 9172860.3/114

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: 6006.197+/-39.220 χ^2/NDF : 99943.1/34

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

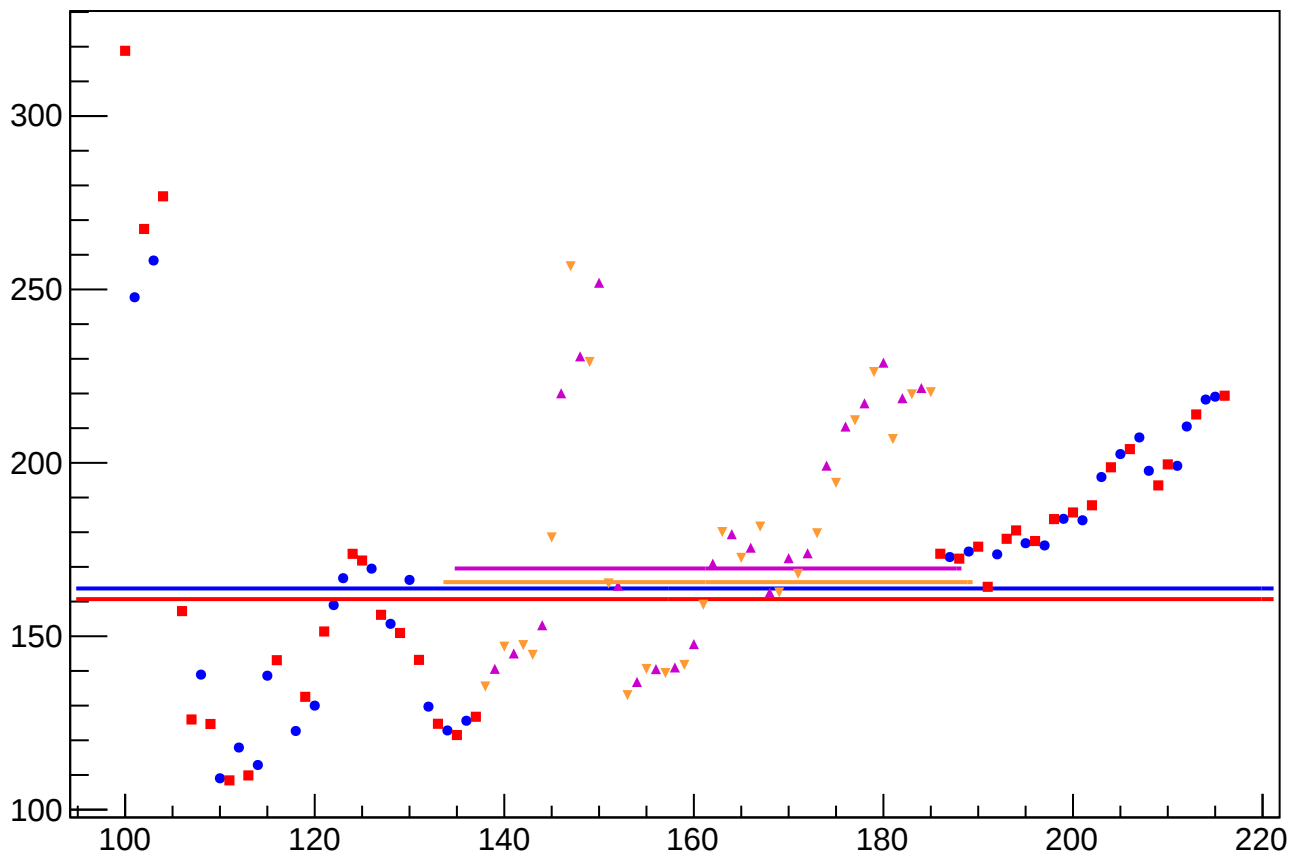
Right: 6029.371+/-28.210 χ^2/NDF : 163518.7/66

In: -756.366+/-29.101 χ^2/NDF : 145277.7/54

Out: 1597.478+/-27.825 χ^2/NDF : 171805.6/59

All: 473.306+/-20.111 χ^2/NDF : 320501.1/114

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: 160.707+/-0.028 χ^2/NDF : 1697593.9/34

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

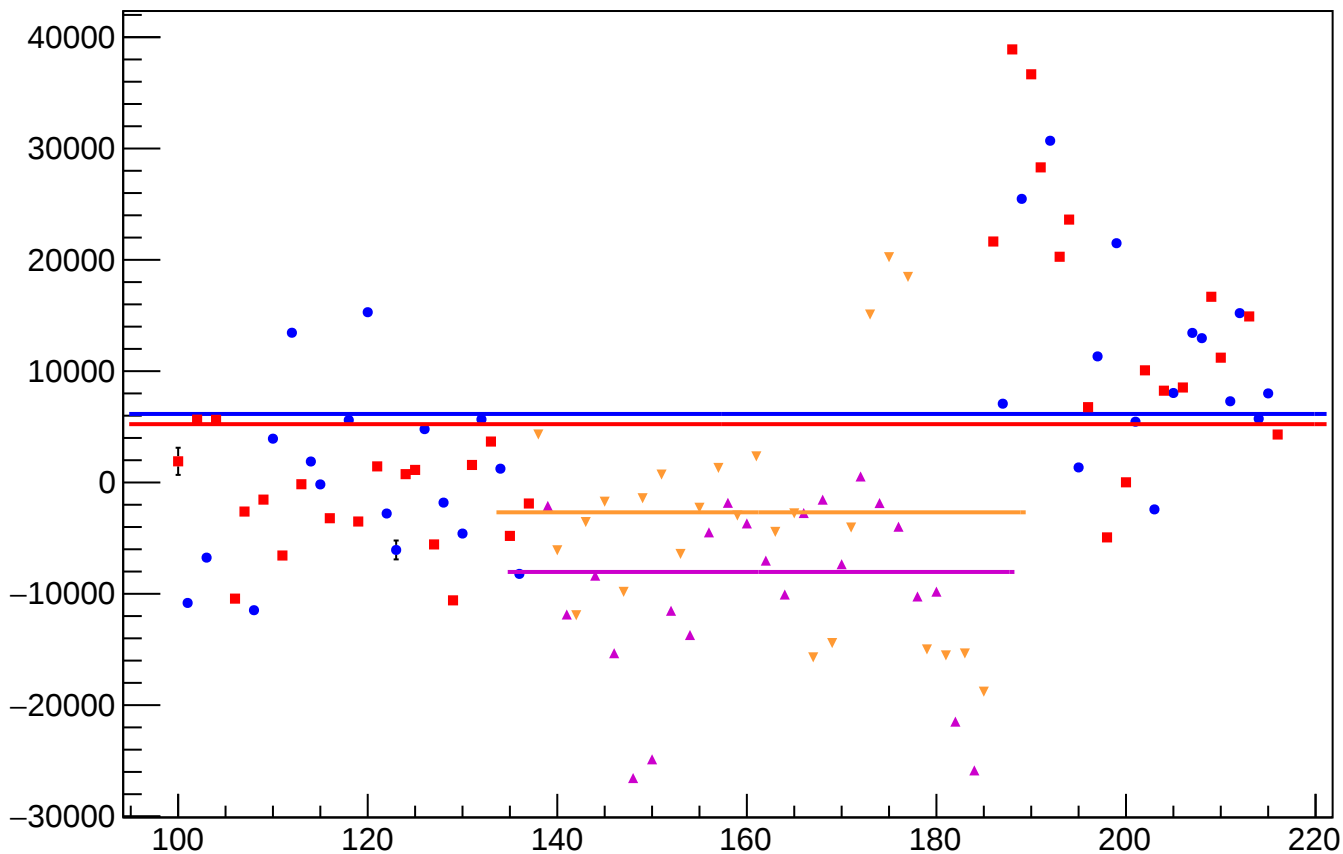
Right: 162.188+/-0.020 χ^2/NDF : 3352705.6/66

In: 166.581+/-0.021 χ^2/NDF :2828051.6/54

Out: 163.145+/-0.020 χ^2/NDF :2857939.1/59

All: 164.786+/-0.014 χ^2/NDF : 5700551.7/114

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: 5239.744+/-33.030 χ^2/NDF : 139721.4/34

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

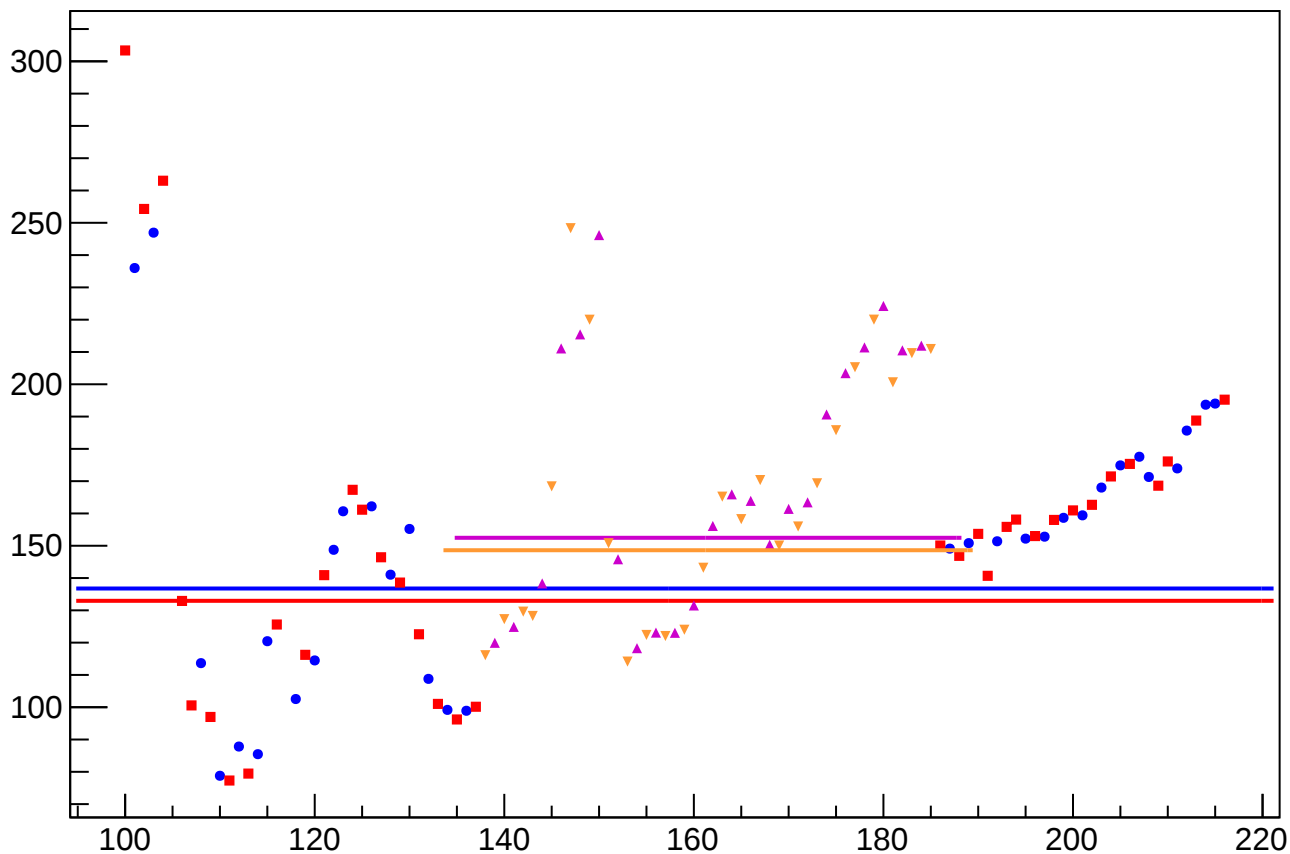
Right: 5679.035+/-23.837 χ^2/NDF : 229077.5/66

In: -257.197+/-25.494 χ^2/NDF : 195021.0/54

Out: 1594.123+/-24.264 χ^2/NDF : 223007.2/59

All: 714.165+/-17.576 χ^2/NDF : 420795.1/114

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 136.761+/-0.024 χ^2/NDF : 2490485.6/31

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 132.949+/-0.023 χ^2/NDF : 2685717.0/34

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

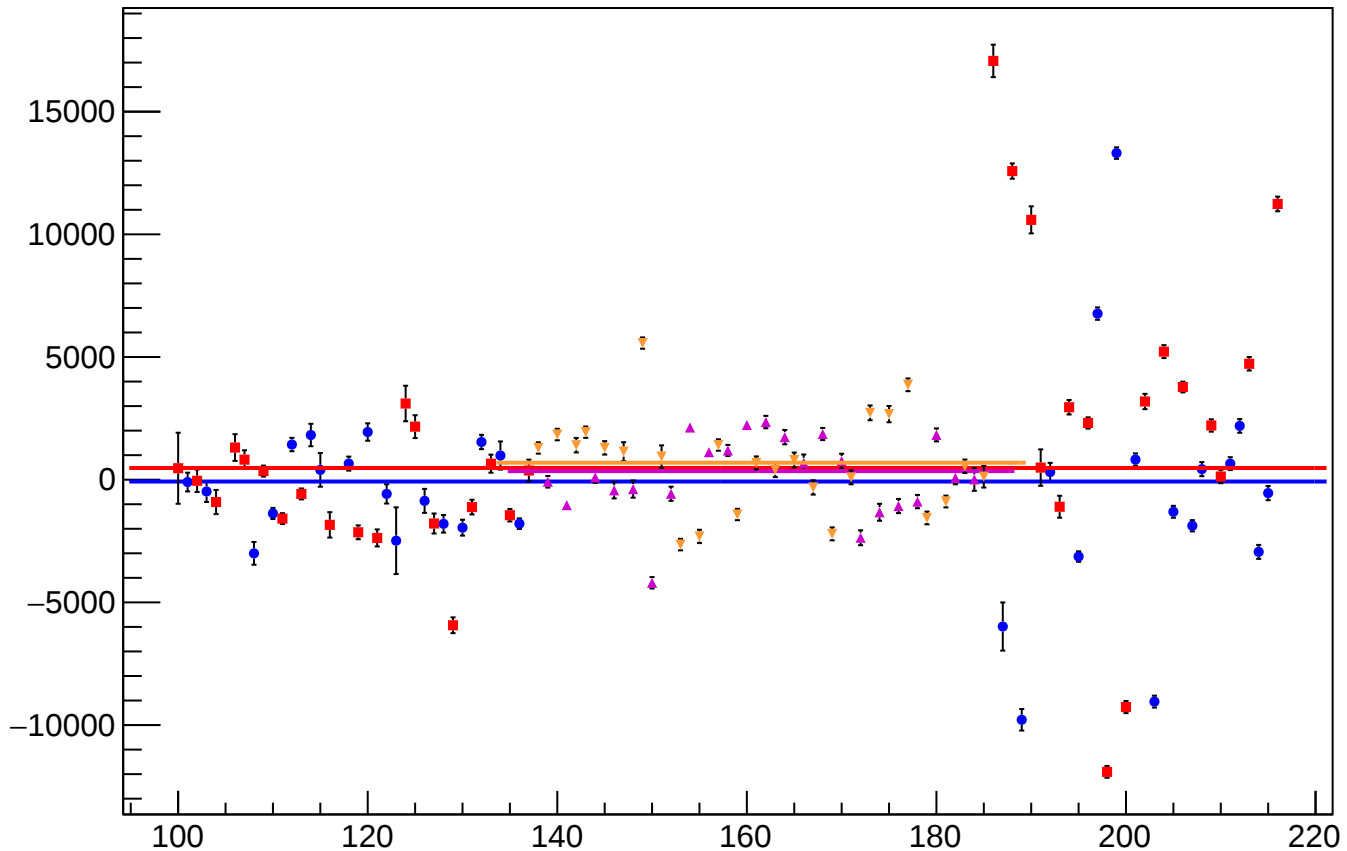
Right: 134.775+/-0.017 χ^2/NDF : 5188966.5/66

In: 143.856+/-0.018 χ^2/NDF :4369945.4/54

Out: 140.158+/-0.017 χ^2/NDF :4578142.0/59

All: 141.916+/-0.012 χ^2/NDF : 8970168.9/114

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: 477.637 ± 53.328 χ^2/NDF : 9848.1/34

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

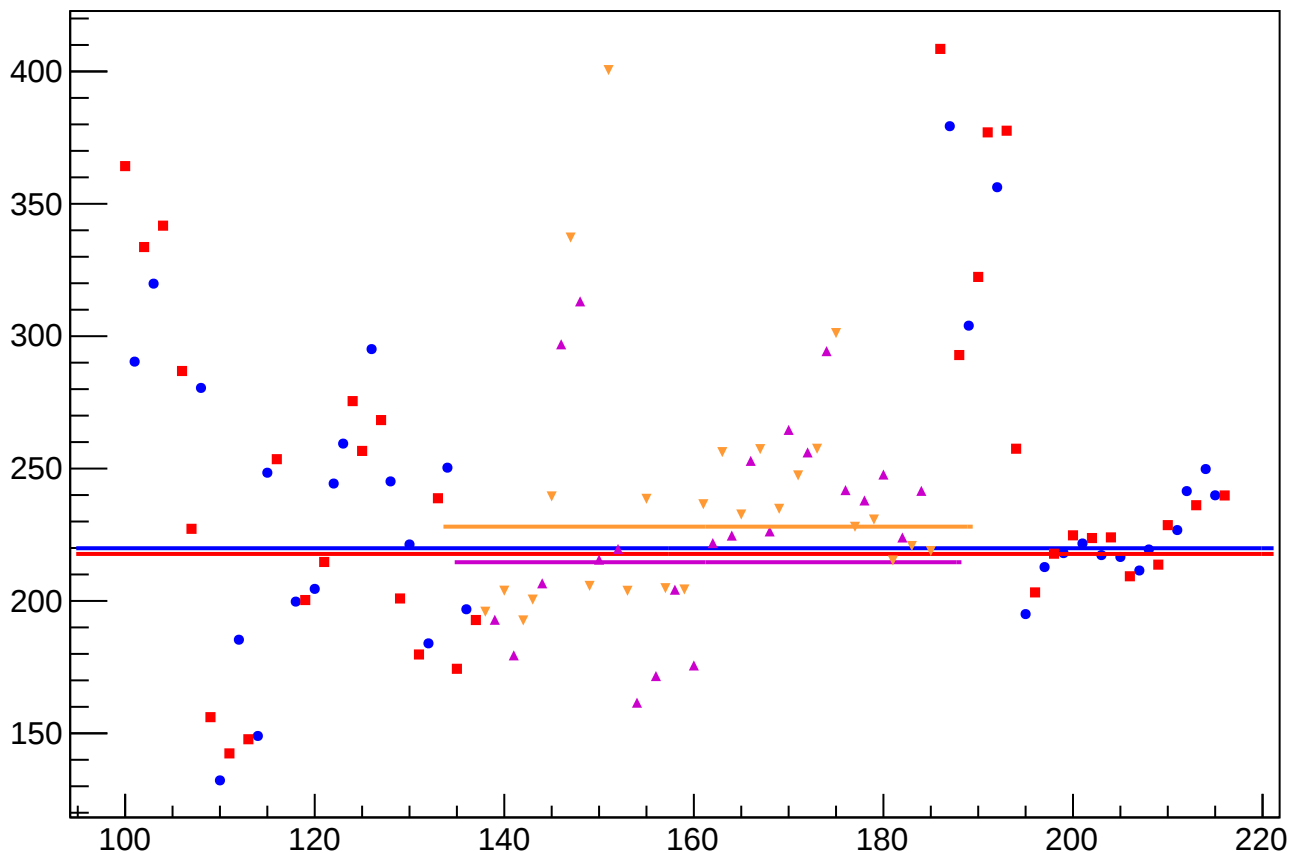
Right: 205.104 ± 37.944 χ^2/NDF : 16567.1/66

In: 141.230 ± 37.859 χ^2/NDF : 7678.5/54

Out: 583.367 ± 38.049 χ^2/NDF : 11278.1/59

All: 361.195 ± 26.837 χ^2/NDF : 19024.4/114

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.908 $\pm$ 0.038 χ^2/NDF : 1202460.1/31

Left Out: 228.061 $\pm$ 0.038 χ^2/NDF : 826343.8/24

Right Out: 217.753 $\pm$ 0.038 χ^2/NDF : 1848409.4/34

Left In: 214.627 $\pm$ 0.038 χ^2/NDF : 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2/NDF : 1914604.4/47

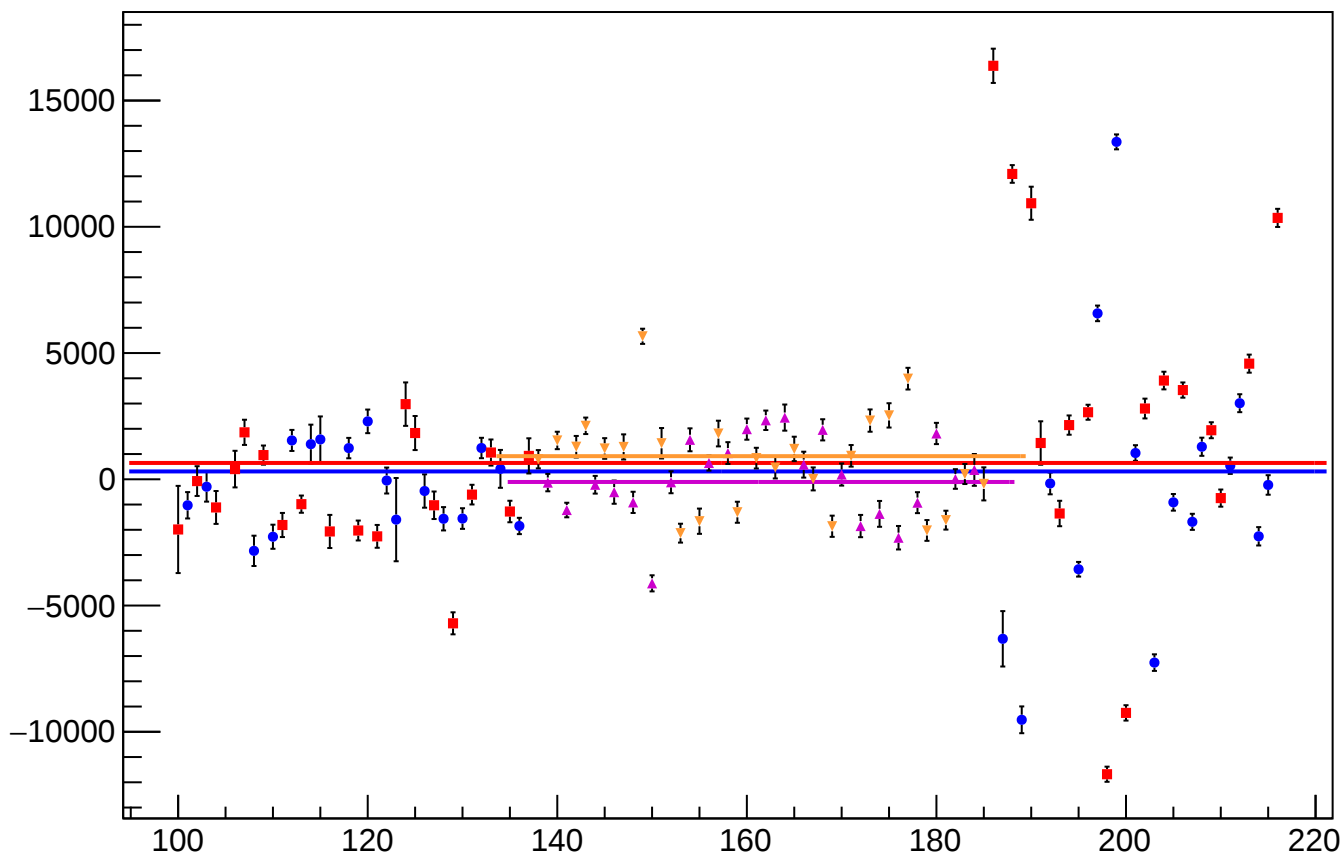
Right: 218.817 $\pm$ 0.027 χ^2/NDF : 3052481.4/66

In: 217.223 $\pm$ 0.027 χ^2/NDF : 2237868.0/54

Out: 222.814 $\pm$ 0.027 χ^2/NDF : 2711436.6/59

All: 220.004 $\pm$ 0.019 χ^2/NDF : 4971004.1/114

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 311.339 $\pm$ 72.652 χ^2/NDF : 3815.3/31

Left Out: 915.968 $\pm$ 83.398 χ^2/NDF : 618.3/24

Right Out: 647.436 $\pm$ 71.953 χ^2/NDF : 6204.8/34

Left In: -106.116 $\pm$ 84.393 χ^2/NDF : 390.3/22

Left: 410.985 $\pm$ 59.320 χ^2/NDF : 1082.8/47

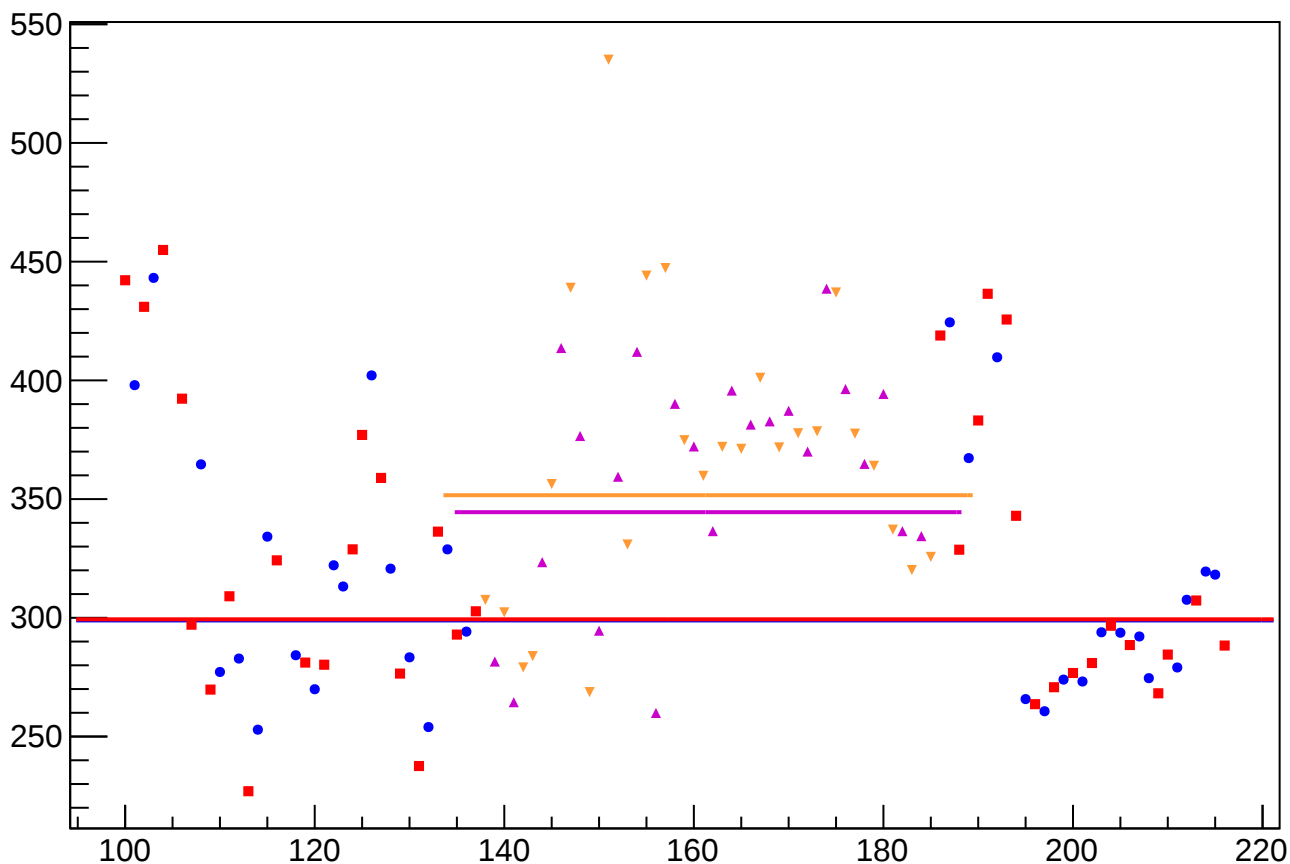
Right: 481.011 $\pm$ 51.124 χ^2/NDF : 10030.9/66

In: 133.648 $\pm$ 55.060 χ^2/NDF : 4219.6/54

Out: 762.026 $\pm$ 54.479 χ^2/NDF : 6829.0/59

All: 451.166 $\pm$ 38.726 χ^2/NDF : 11114.5/114

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: 299.367 ± 0.051 $\chi^2/\text{NDF}: 896246.4/34$

Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$

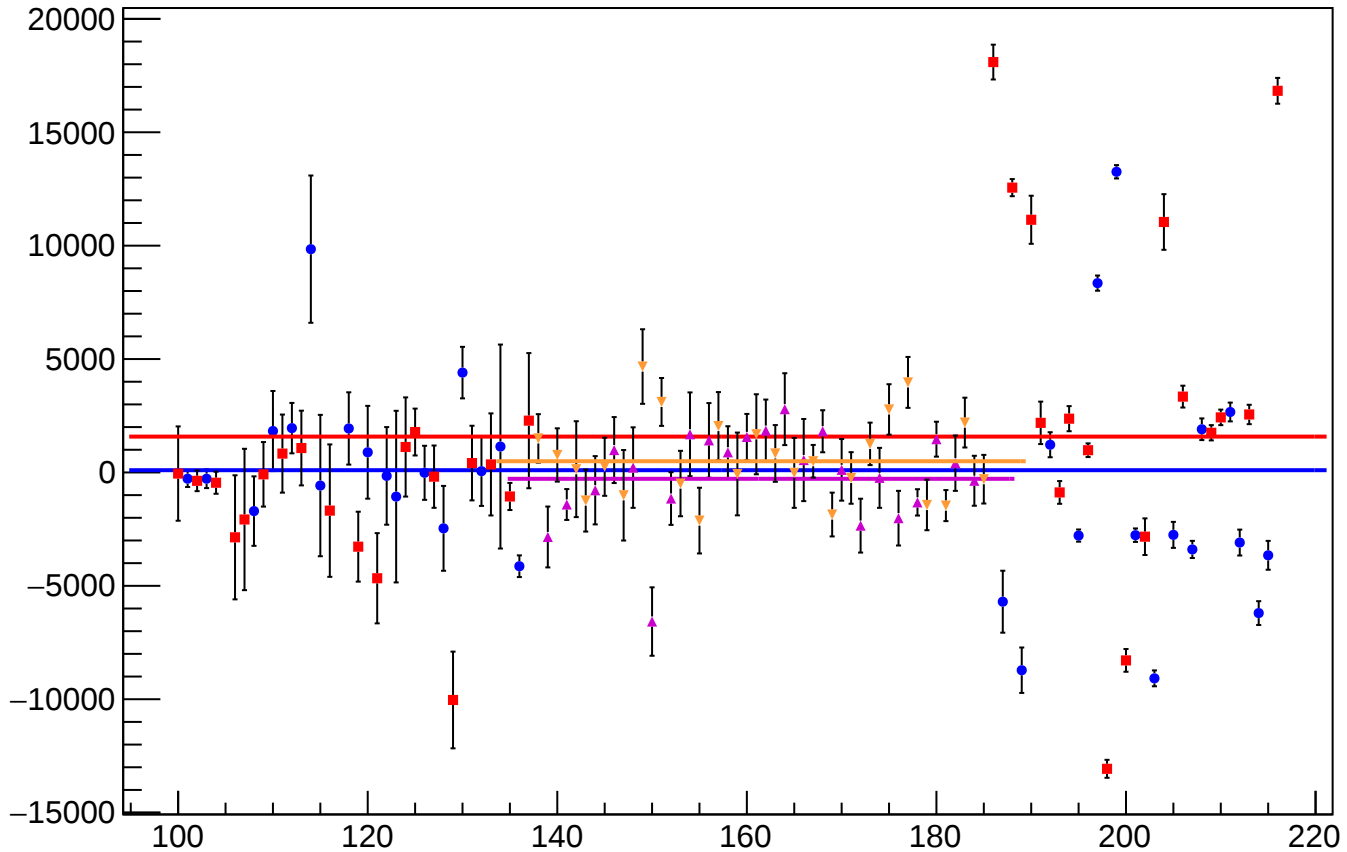
Right: 299.135 ± 0.036 $\chi^2/\text{NDF}: 1535438.9/66$

In: 318.305 ± 0.039 $\chi^2/\text{NDF}: 1743285.5/54$

Out: 321.670 ± 0.039 $\chi^2/\text{NDF}: 2254406.3/59$

All: 320.006 ± 0.027 $\chi^2/\text{NDF}: 4001466.9/114$

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: 1580.337 ± 106.240 $\chi^2/\text{NDF}: 4117.6/34$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

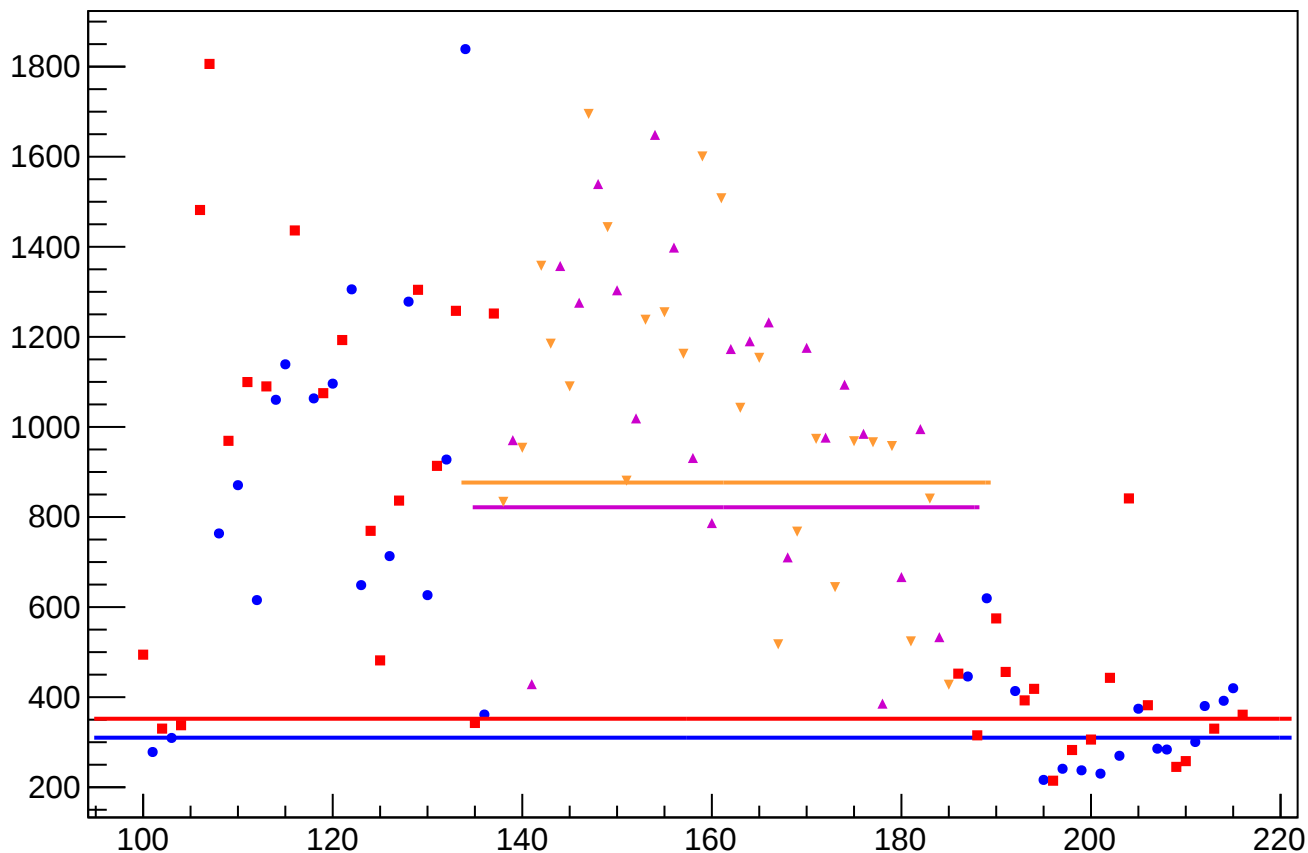
Right: 757.732 ± 70.849 $\chi^2/\text{NDF}: 8315.1/66$

In: 44.324 ± 87.980 $\chi^2/\text{NDF}: 4149.1/54$

Out: 1390.929 ± 96.525 $\chi^2/\text{NDF}: 4192.0/59$

All: 655.390 ± 65.023 $\chi^2/\text{NDF}: 8447.4/114$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 310.049+/-0.067 χ^2/NDF : 4556998.6/31

Left Out: 876.560+/-0.163 χ^2/NDF : 3434698.7/24

Right Out: 352.106+/-0.075 χ^2/NDF : 5923331.8/34

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

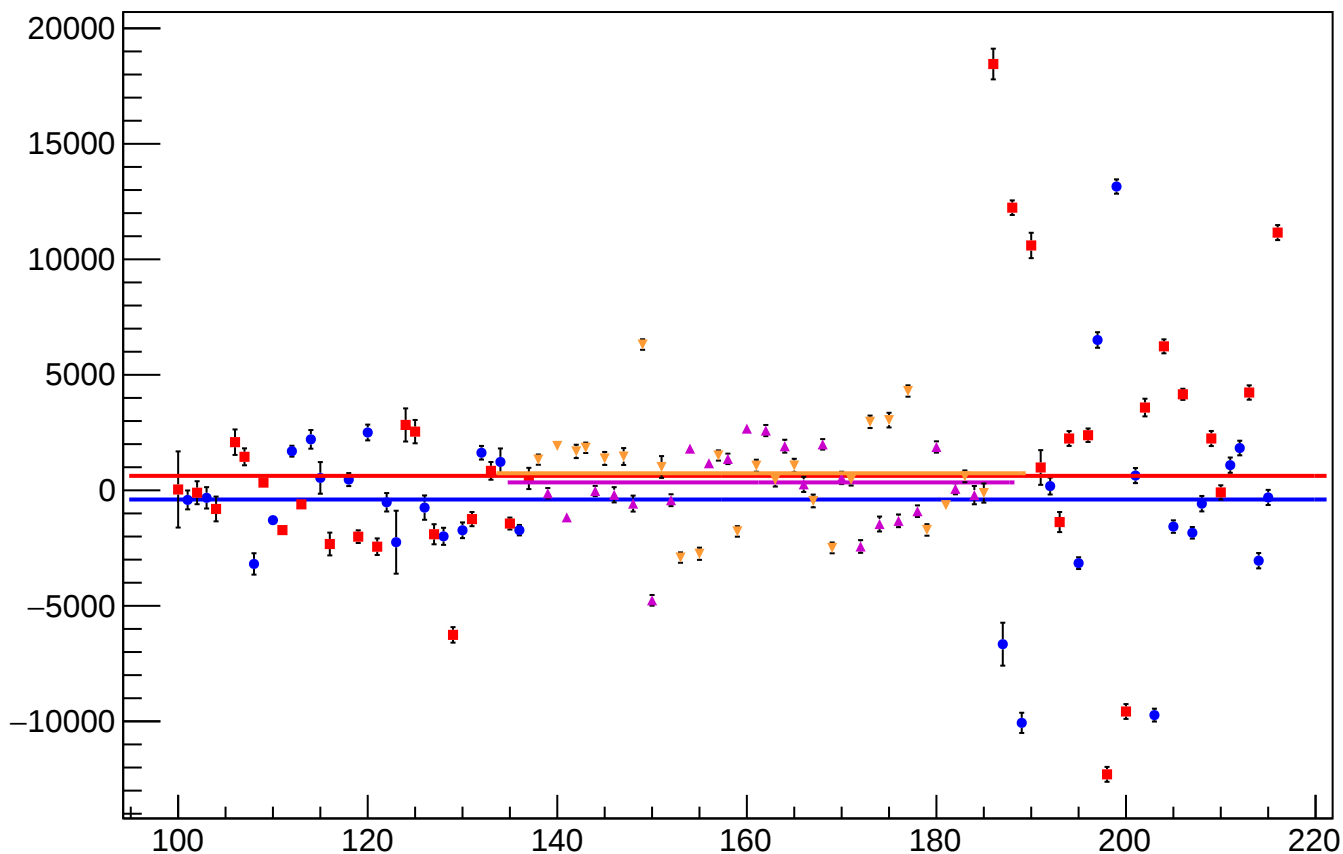
Right: 328.753+/-0.050 χ^2/NDF : 10654365.3/66

In: 383.593+/-0.062 χ^2/NDF : 17324450.6/54

Out: 443.633+/-0.068 χ^2/NDF : 17863725.6/59

All: 410.838+/-0.046 χ^2/NDF : 35610829.9/11

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -397.182 ± 58.390 $\chi^2/\text{NDF}: 4678.9/31$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 626.199 ± 56.323 $\chi^2/\text{NDF}: 7915.7/34$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

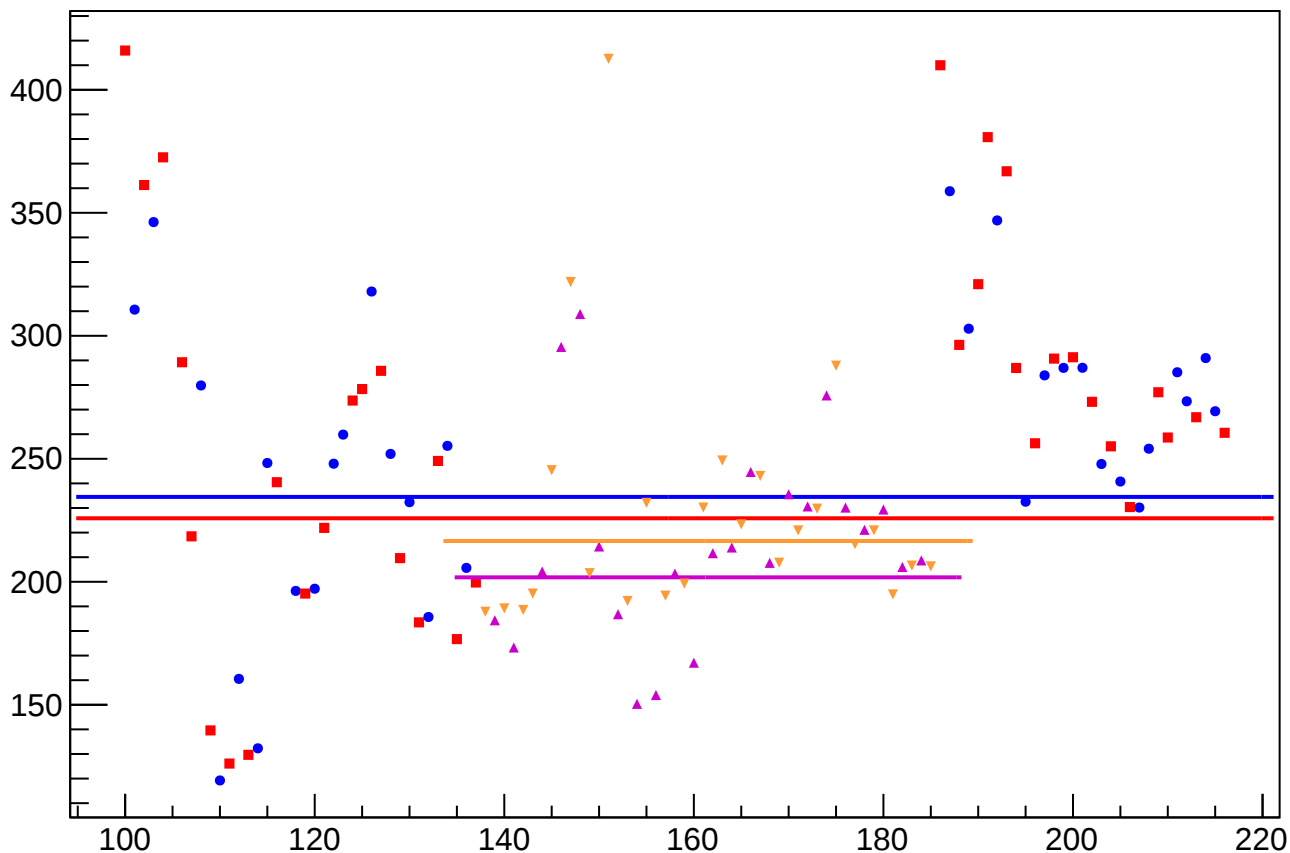
Right: 132.942 ± 40.538 $\chi^2/\text{NDF}: 12753.7/66$

In: 29.235 ± 37.998 $\chi^2/\text{NDF}: 6026.3/54$

Out: 687.391 ± 38.067 $\chi^2/\text{NDF}: 9853.1/59$

All: 357.717 ± 26.893 $\chi^2/\text{NDF}: 16029.1/114$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 234.506 ± 0.041 $\chi^2/\text{NDF}: 1967076.6/31$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 225.821 ± 0.040 $\chi^2/\text{NDF}: 2983226.8/34$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

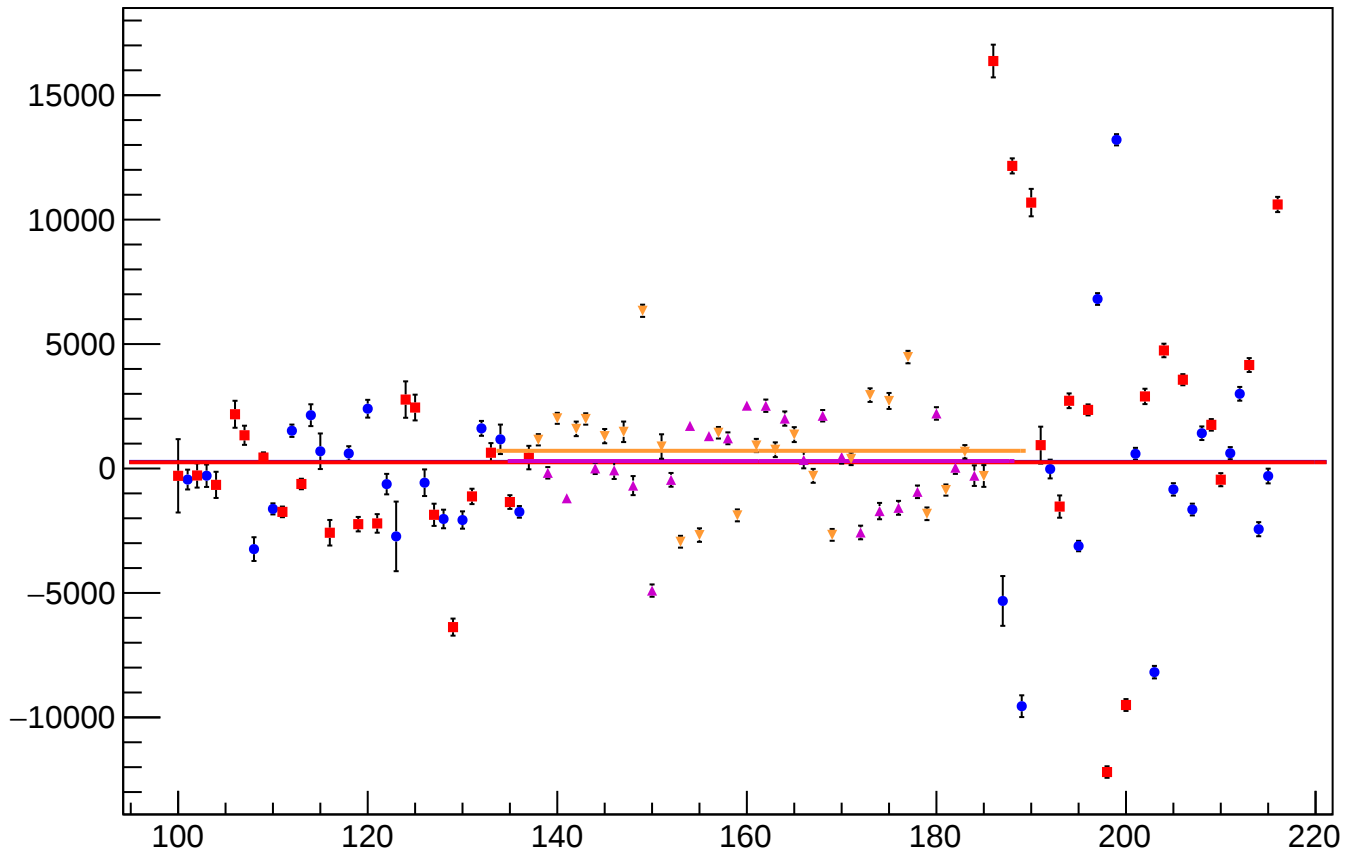
Right: 230.007 ± 0.029 $\chi^2/\text{NDF}: 4973225.6/66$

In: 215.654 ± 0.027 $\chi^2/\text{NDF}: 3415958.8/54$

Out: 220.798 ± 0.027 $\chi^2/\text{NDF}: 3898722.9/59$

All: 218.221 ± 0.019 $\chi^2/\text{NDF}: 7332977.0/114$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 265.427 ± 53.906 $\chi^2/\text{NDF}: 6683.3/31$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 250.659 ± 53.109 $\chi^2/\text{NDF}: 9952.5/34$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

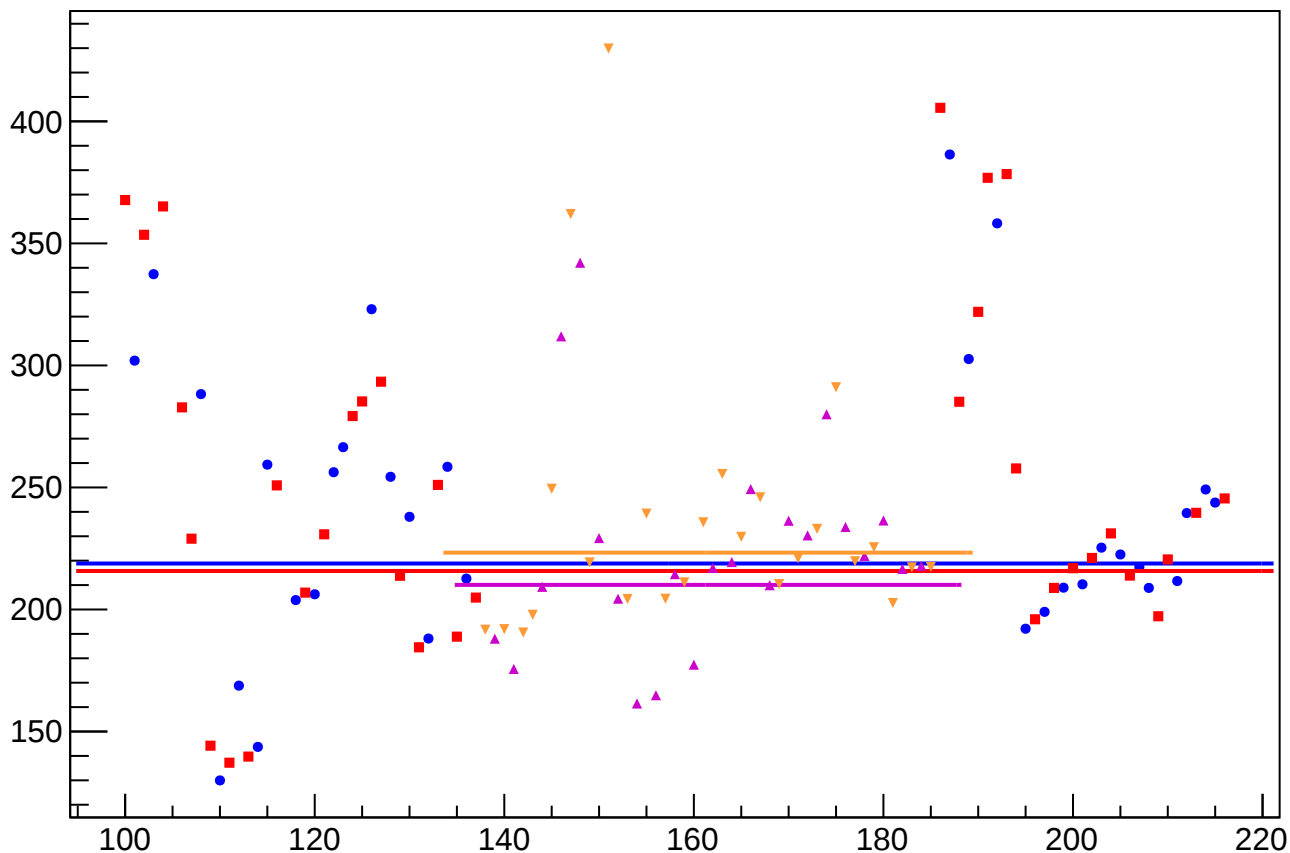
Right: 257.933 ± 37.832 $\chi^2/\text{NDF}: 16635.9/66$

In: 283.608 ± 37.419 $\chi^2/\text{NDF}: 7892.1/54$

Out: 480.327 ± 37.602 $\chi^2/\text{NDF}: 11825.4/59$

All: 381.489 ± 26.524 $\chi^2/\text{NDF}: 19731.3/114$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 218.838 ± 0.038 $\chi^2/\text{NDF}: 1401443.4/31$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 215.783 ± 0.038 $\chi^2/\text{NDF}: 2141240.3/34$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

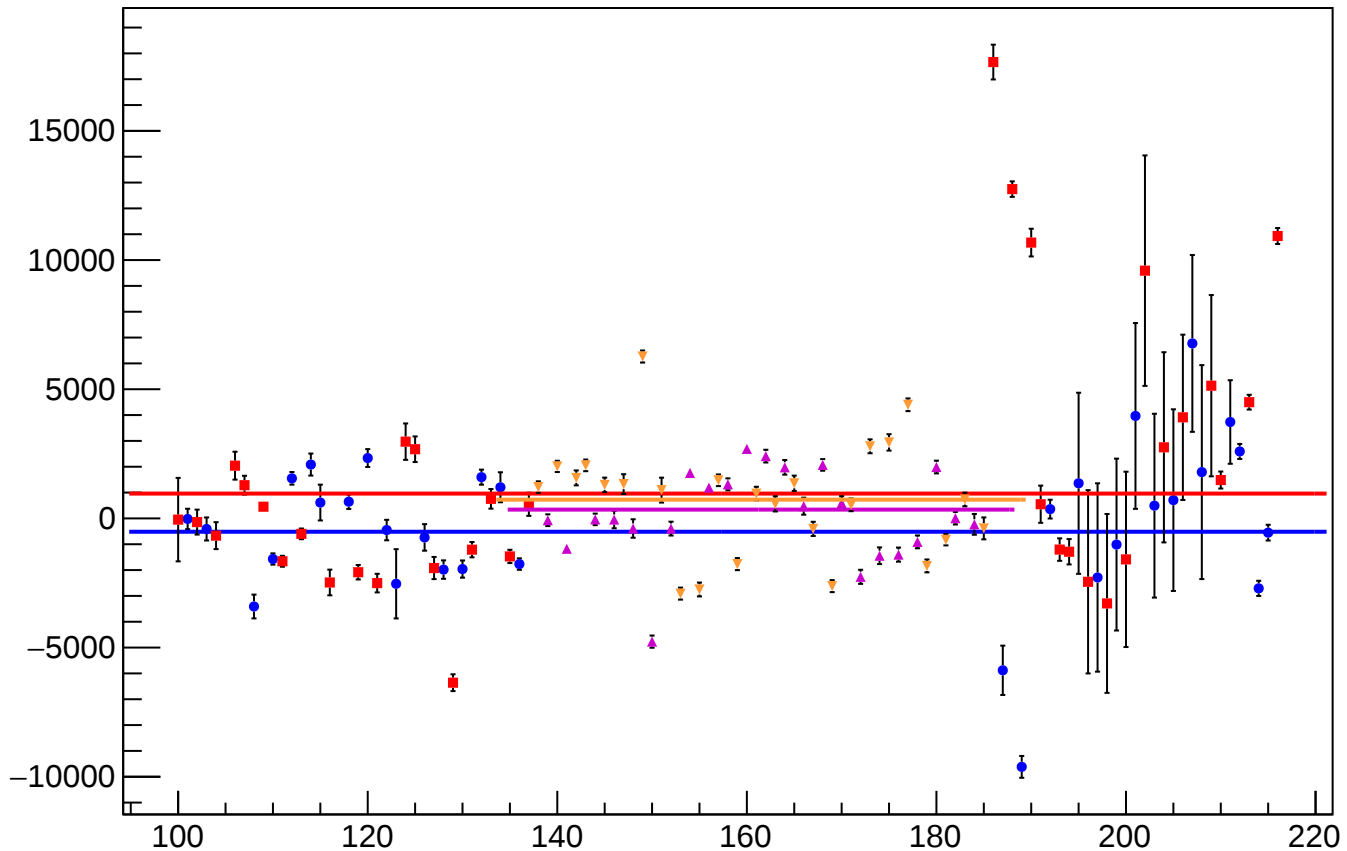
Right: 217.288 ± 0.027 $\chi^2/\text{NDF}: 3545944.6/66$

In: 214.300 ± 0.026 $\chi^2/\text{NDF}: 2444073.9/54$

Out: 219.530 ± 0.027 $\chi^2/\text{NDF}: 3083973.3/59$

All: 216.902 ± 0.019 $\chi^2/\text{NDF}: 5547484.9/114$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -516.392 ± 71.685 $\chi^2/\text{NDF}: 1076.7/31$

Left Out: 725.866 ± 52.158 $\chi^2/\text{NDF}: 1912.7/24$

Right Out: 960.763 ± 65.076 $\chi^2/\text{NDF}: 4945.2/34$

Left In: 340.502 ± 50.802 $\chi^2/\text{NDF}: 1201.8/22$

Left: 528.110 ± 36.393 $\chi^2/\text{NDF}: 3142.6/47$

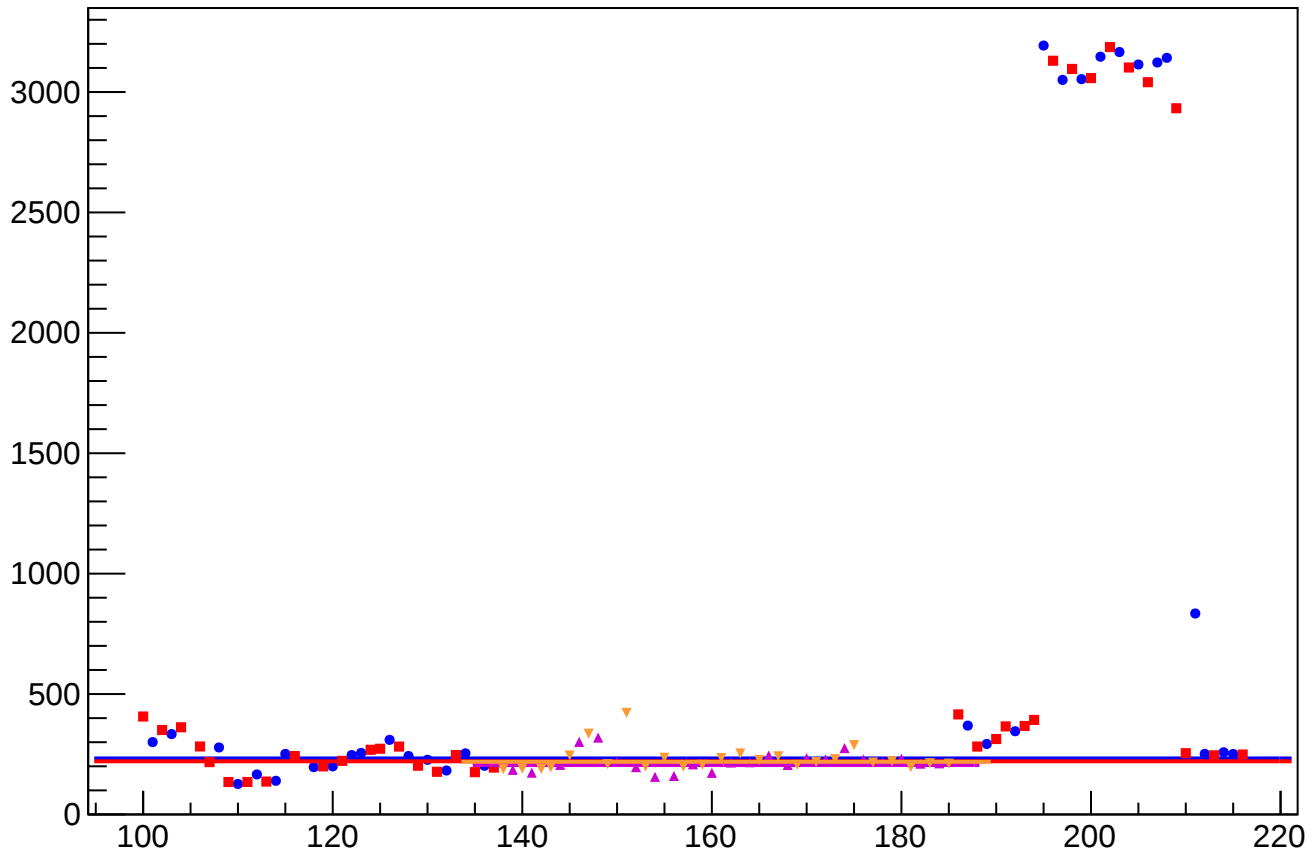
Right: 293.402 ± 48.183 $\chi^2/\text{NDF}: 6254.7/66$

In: 54.021 ± 41.449 $\chi^2/\text{NDF}: 2373.7/54$

Out: 817.742 ± 40.699 $\chi^2/\text{NDF}: 6865.9/59$

All: 442.853 ± 29.040 $\chi^2/\text{NDF}: 9412.4/114$

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: 220.752 $\pm$ 0.046 χ^2 /NDF: 11512733.8/34

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

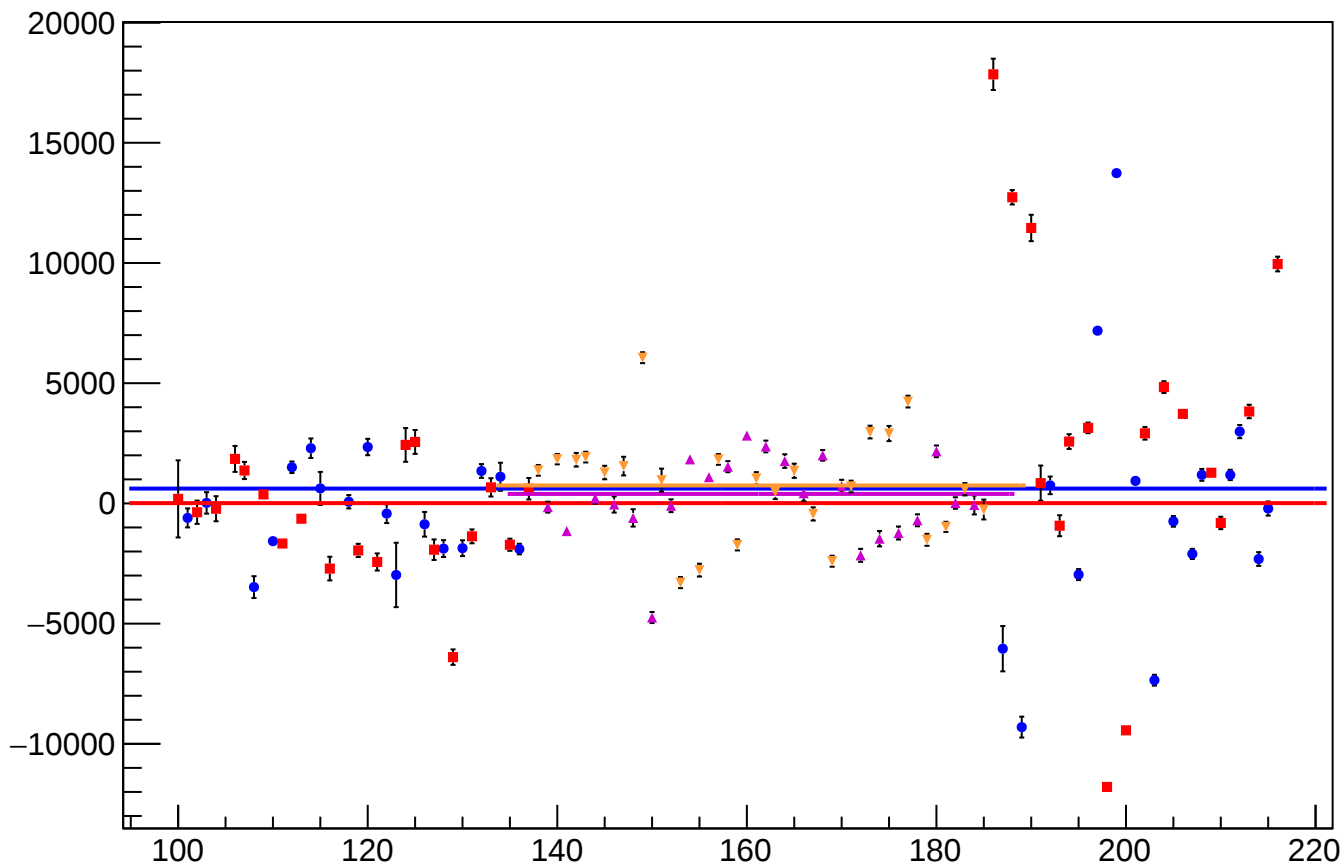
Right: 226.069 $\pm$ 0.034 χ^2 /NDF: 23714941.4/66

In: 214.366 $\pm$ 0.029 χ^2 /NDF: 13362504.2/54

Out: 219.544 $\pm$ 0.029 χ^2 /NDF: 12410779.9/59

All: 217.003 $\pm$ 0.021 χ^2 /NDF: 25789175.8/11

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: 12.272 ± 49.811 $\chi^2/\text{NDF}: 11668.8/34$

Left In: 394.379 ± 50.311 $\chi^2/\text{NDF}: 1236.4/22$

Left: 565.969 ± 36.020 $\chi^2/\text{NDF}: 3202.4/47$

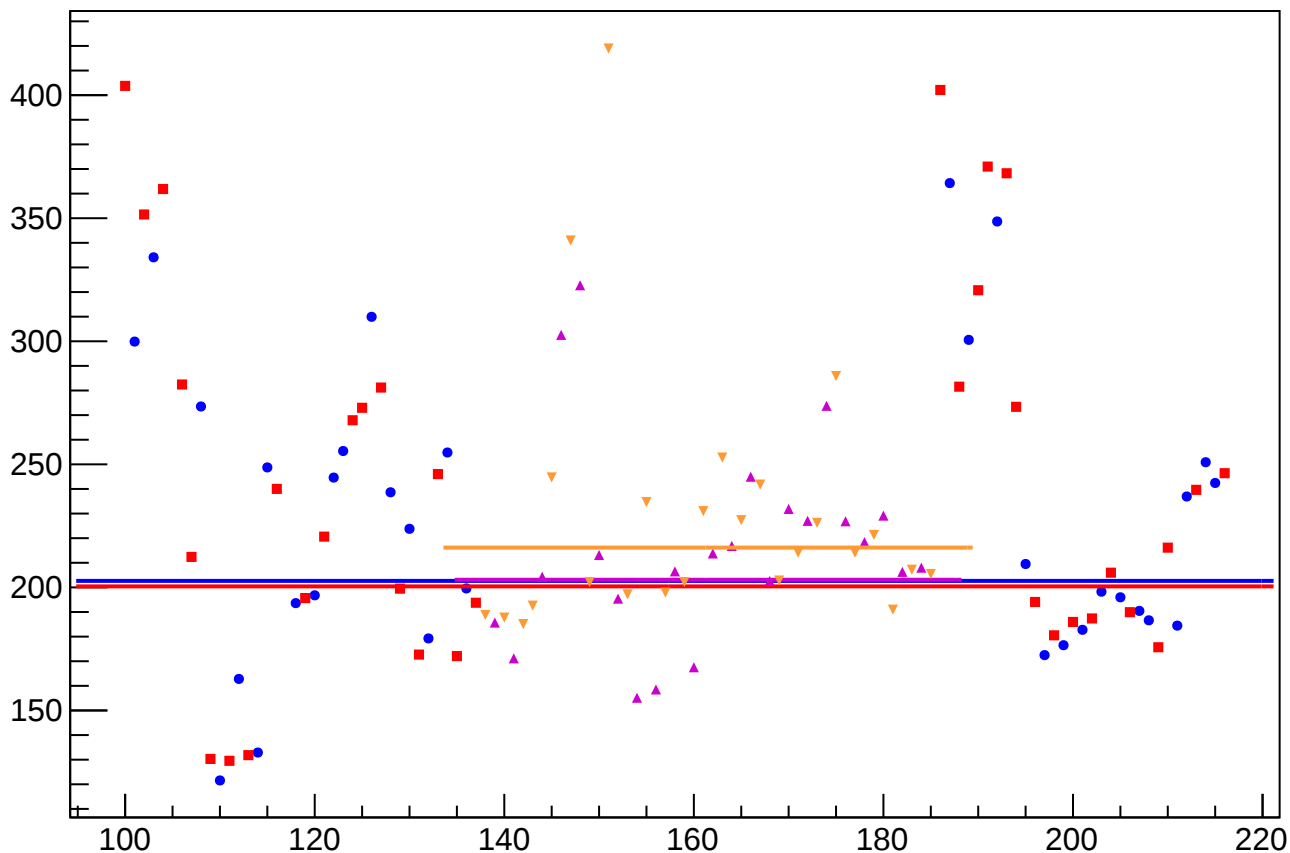
Right: 311.146 ± 35.424 $\chi^2/\text{NDF}: 20389.7/66$

In: 505.513 ± 35.603 $\chi^2/\text{NDF}: 9894.3/54$

Out: 366.452 ± 35.835 $\chi^2/\text{NDF}: 13715.7/59$

All: 436.434 ± 25.257 $\chi^2/\text{NDF}: 23617.5/114$

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: 200.411 $\pm$ 0.035 χ^2 /NDF: 2564002.3/34

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

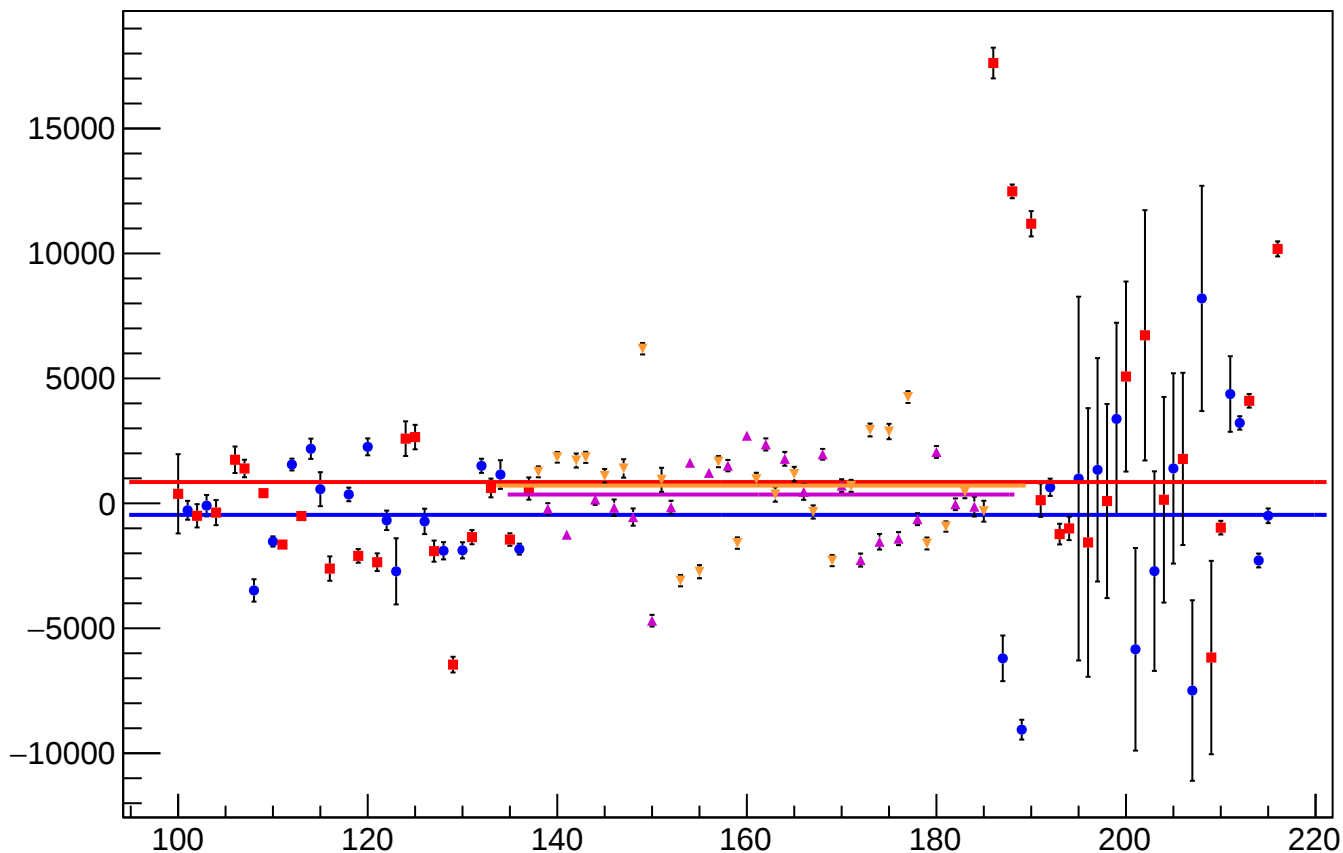
Right: 201.516 $\pm$ 0.025 χ^2 /NDF: 4242120.0/66

In: 202.874 $\pm$ 0.025 χ^2 /NDF: 2714221.5/54

Out: 208.018 $\pm$ 0.025 χ^2 /NDF: 3606722.7/59

All: 205.429 $\pm$ 0.018 χ^2 /NDF: 6341682.5/114

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: 852.066 ± 62.044 $\chi^2/\text{NDF}: 5378.3/34$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

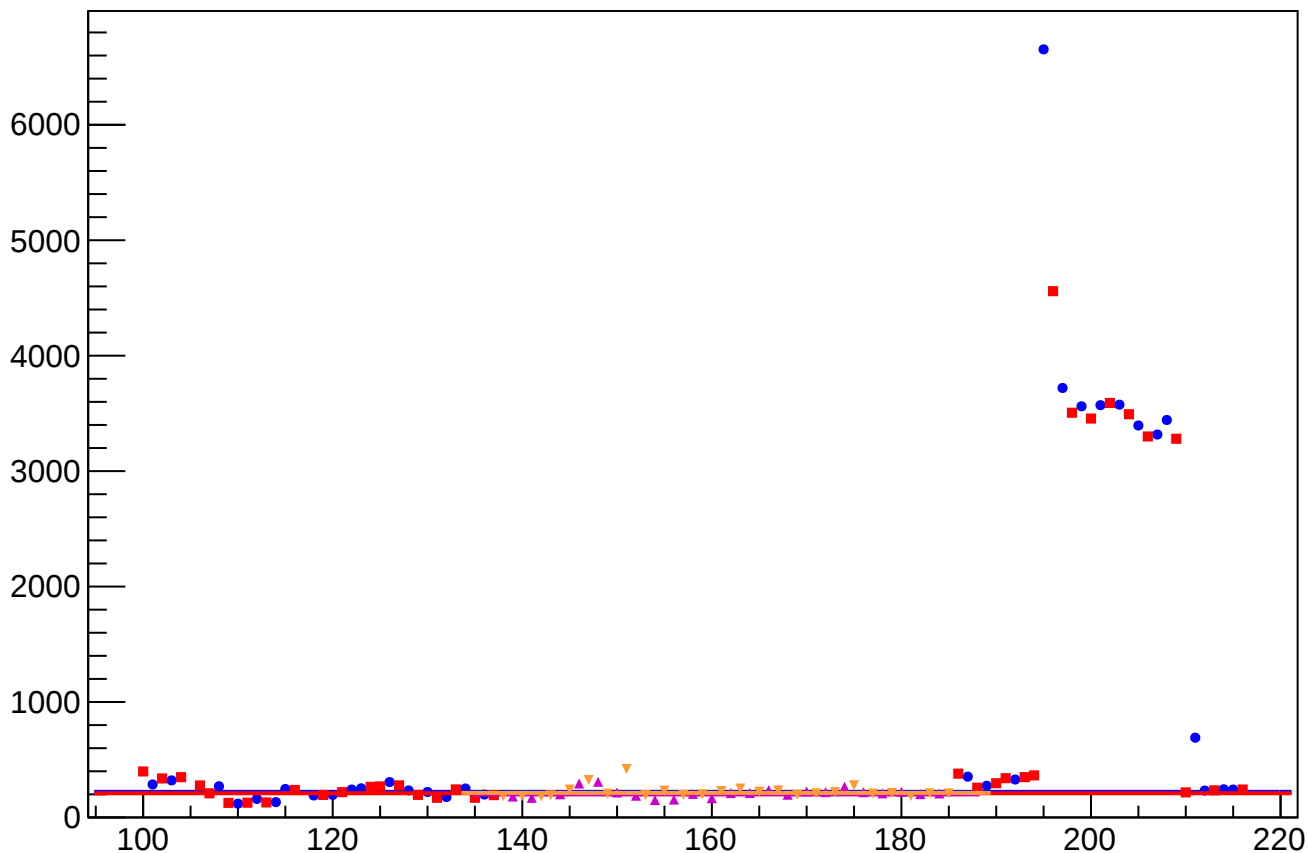
Right: 264.899 ± 46.134 $\chi^2/\text{NDF}: 6749.8/66$

In: 77.308 ± 40.121 $\chi^2/\text{NDF}: 2496.3/54$

Out: 767.092 ± 39.283 $\chi^2/\text{NDF}: 7313.7/59$

All: 429.478 ± 28.069 $\chi^2/\text{NDF}: 9960.9/114$

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: 209.361+/-0.044 χ^2/NDF : 11754623.6/34

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

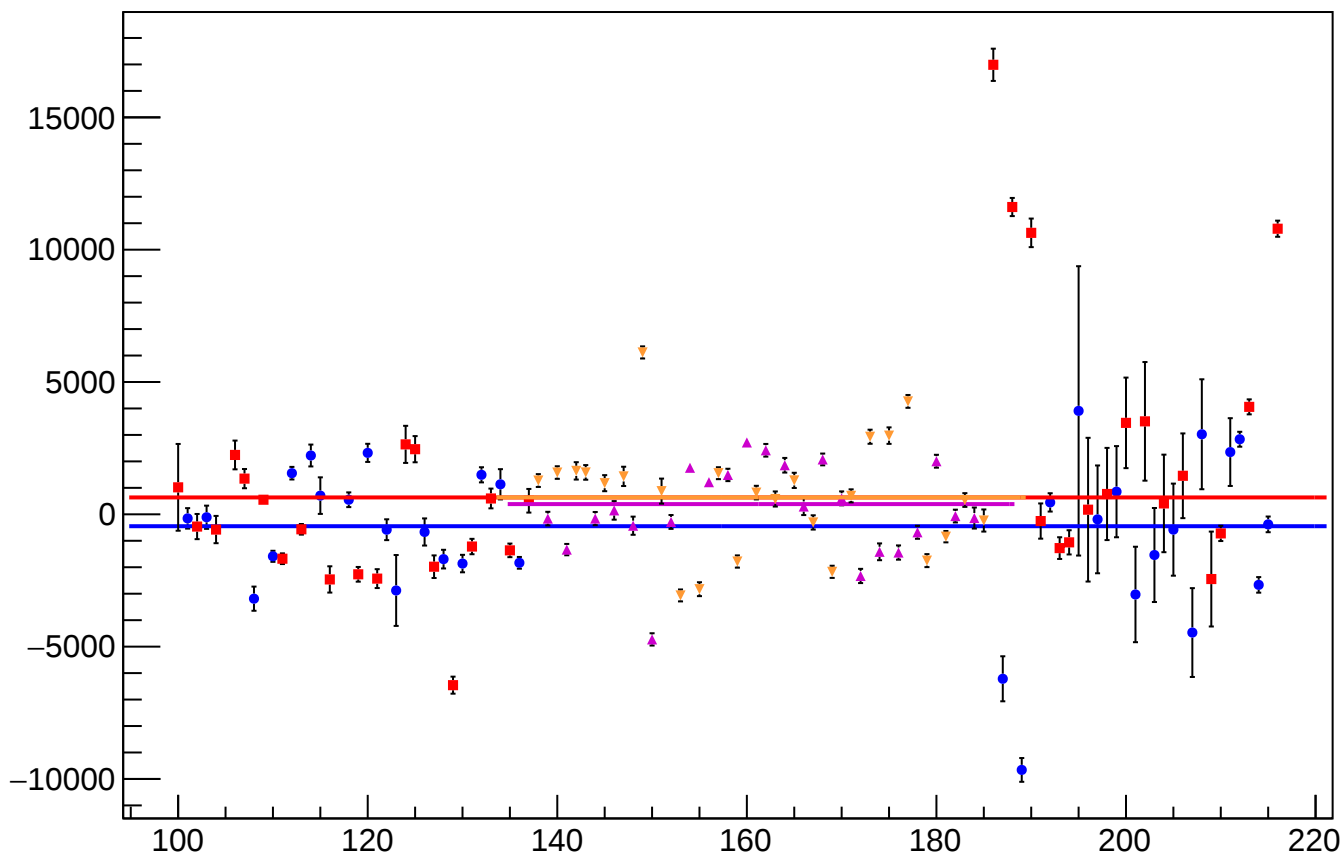
Right: 214.926+/-0.033 χ^2/NDF : 24321799.3/66

In: 206.806+/-0.028 χ^2/NDF : 13659974.4/54

Out: 211.373+/-0.028 χ^2/NDF : 12674357.9/59

All: 209.138+/-0.020 χ^2/NDF : 26347559.8/11

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: 637.929 $\pm$ 63.683 χ^2 /NDF: 4468.6/34

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

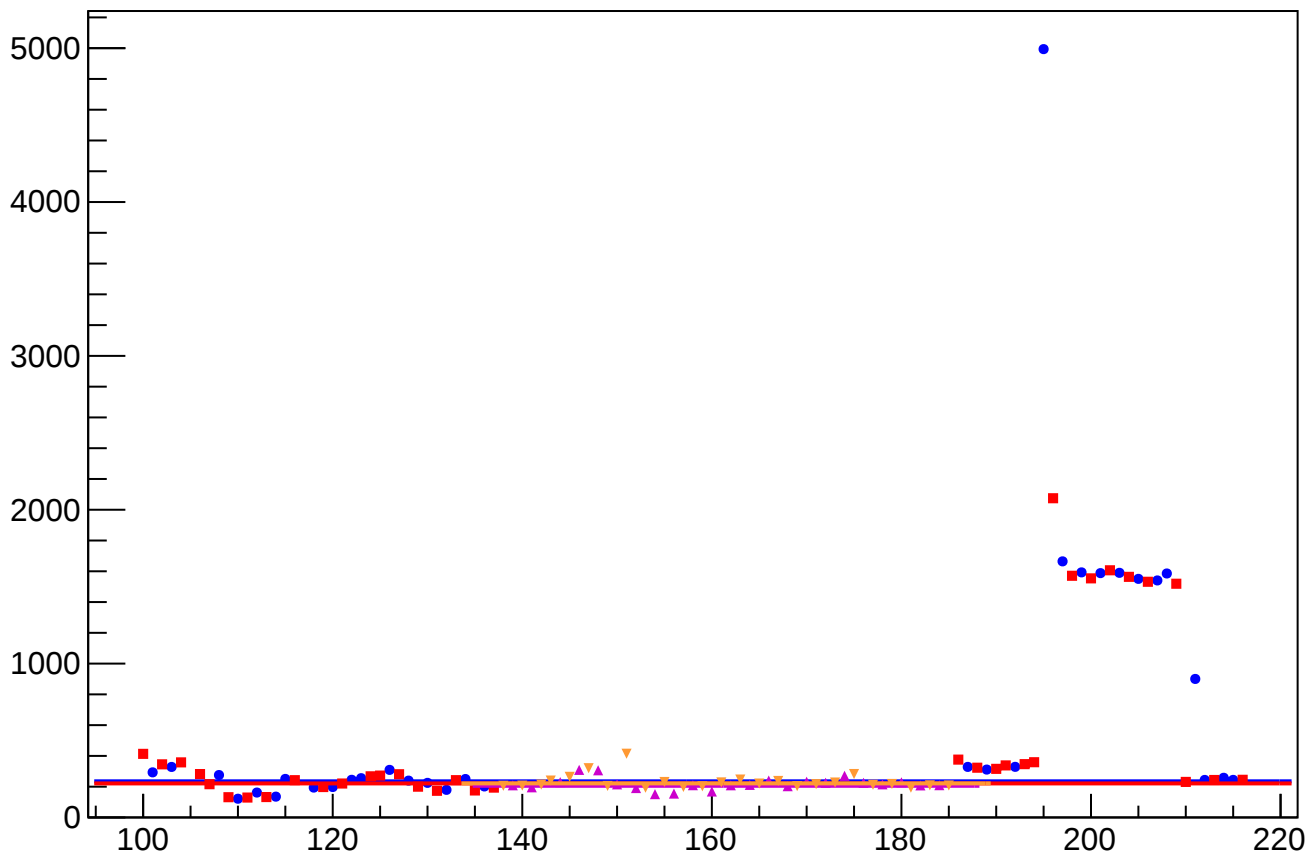
Right: 146.733 $\pm$ 47.154 χ^2 /NDF: 5670.8/66

In: 97.374 $\pm$ 41.249 χ^2 /NDF:2401.3/54

Out: 639.155 $\pm$ 40.605 χ^2 /NDF:6327.9/59

All: 372.529 $\pm$ 28.937 χ^2 /NDF: 8816.8/114

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: 221.176+/-0.045 χ^2/NDF : 10188174.0/34

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

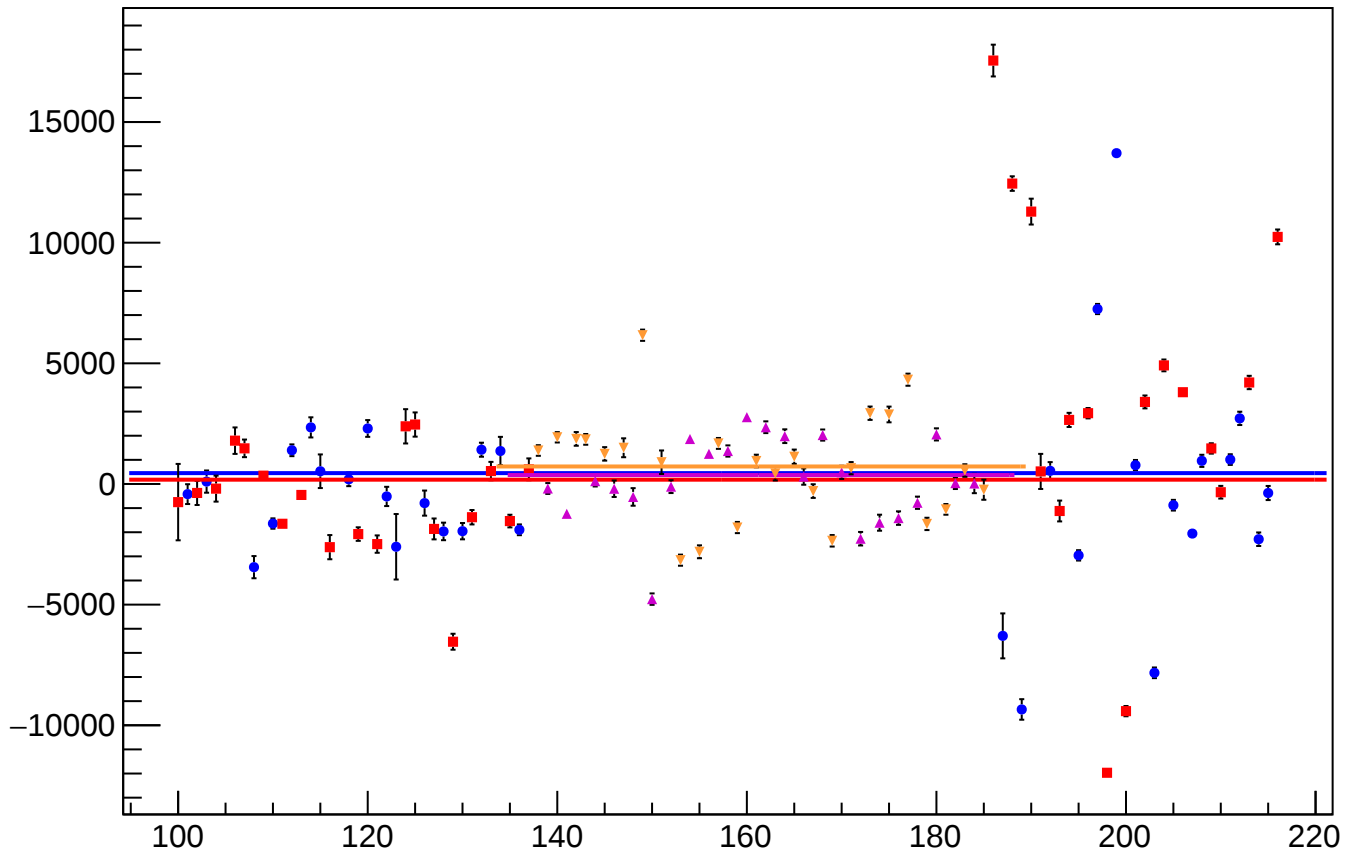
Right: 227.367+/-0.033 χ^2/NDF : 21525233.6/66

In: 215.855+/-0.029 χ^2/NDF : 12514906.4/54

Out: 221.308+/-0.029 χ^2/NDF : 10966022.3/59

All: 218.624+/-0.020 χ^2/NDF : 23498680.6/11

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 450.043+/-50.826 χ^2/NDF : 8618.4/31

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 178.025+/-50.523 χ^2/NDF : 11397.6/34

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

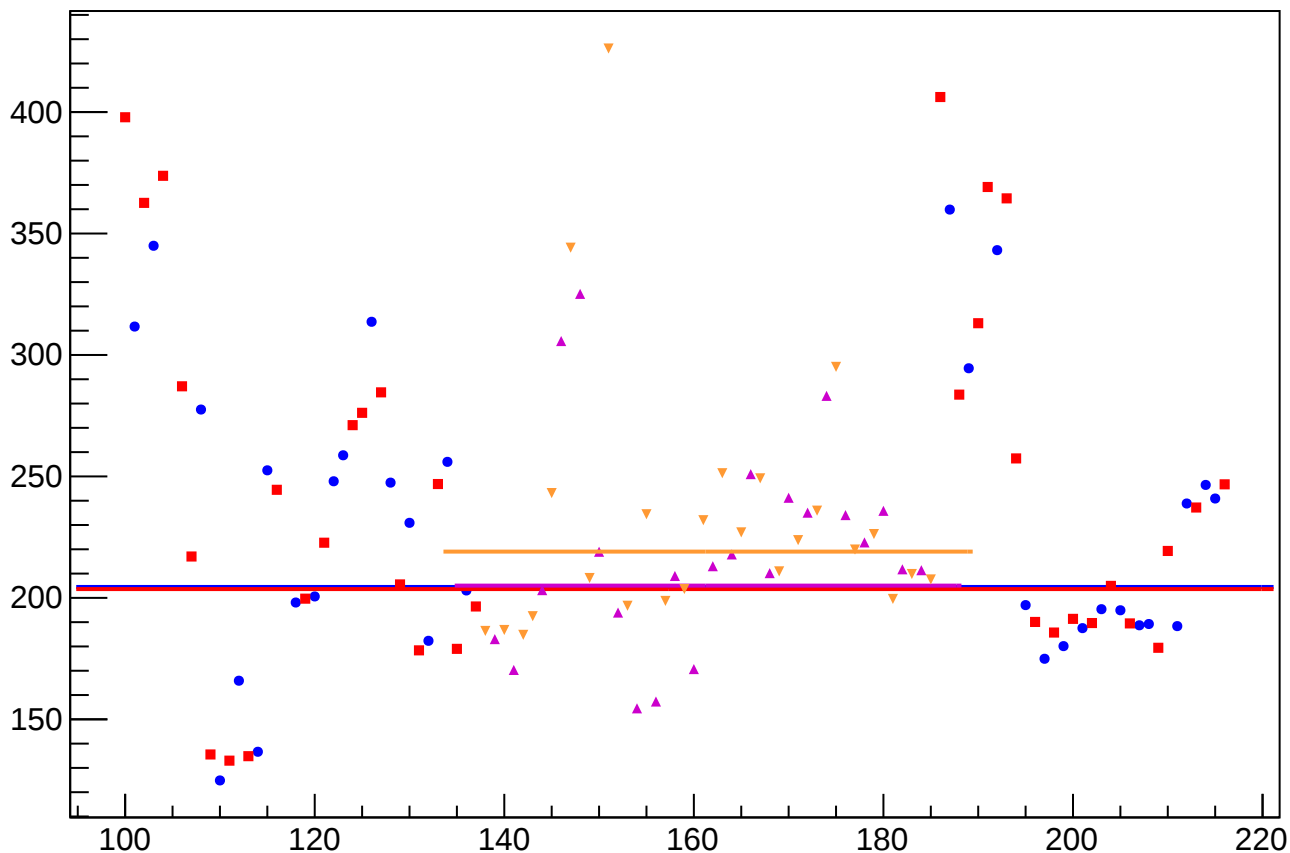
Right: 313.223+/-35.832 χ^2/NDF : 20030.4/66

In: 410.272+/-35.960 χ^2/NDF :9842.8/54

Out: 442.148+/-36.340 χ^2/NDF :13337.3/59

All: 426.042+/-25.561 χ^2/NDF : 23180.5/114

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.493 $\pm$ 0.036 χ^2/NDF : 1612882.7/31

Left Out: 219.049 $\pm$ 0.037 χ^2/NDF : 975564.4/24

Right Out: 203.622 $\pm$ 0.036 χ^2/NDF : 2398607.9/34

Left In: 205.046 $\pm$ 0.036 χ^2/NDF : 1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2/NDF : 2193394.9/47

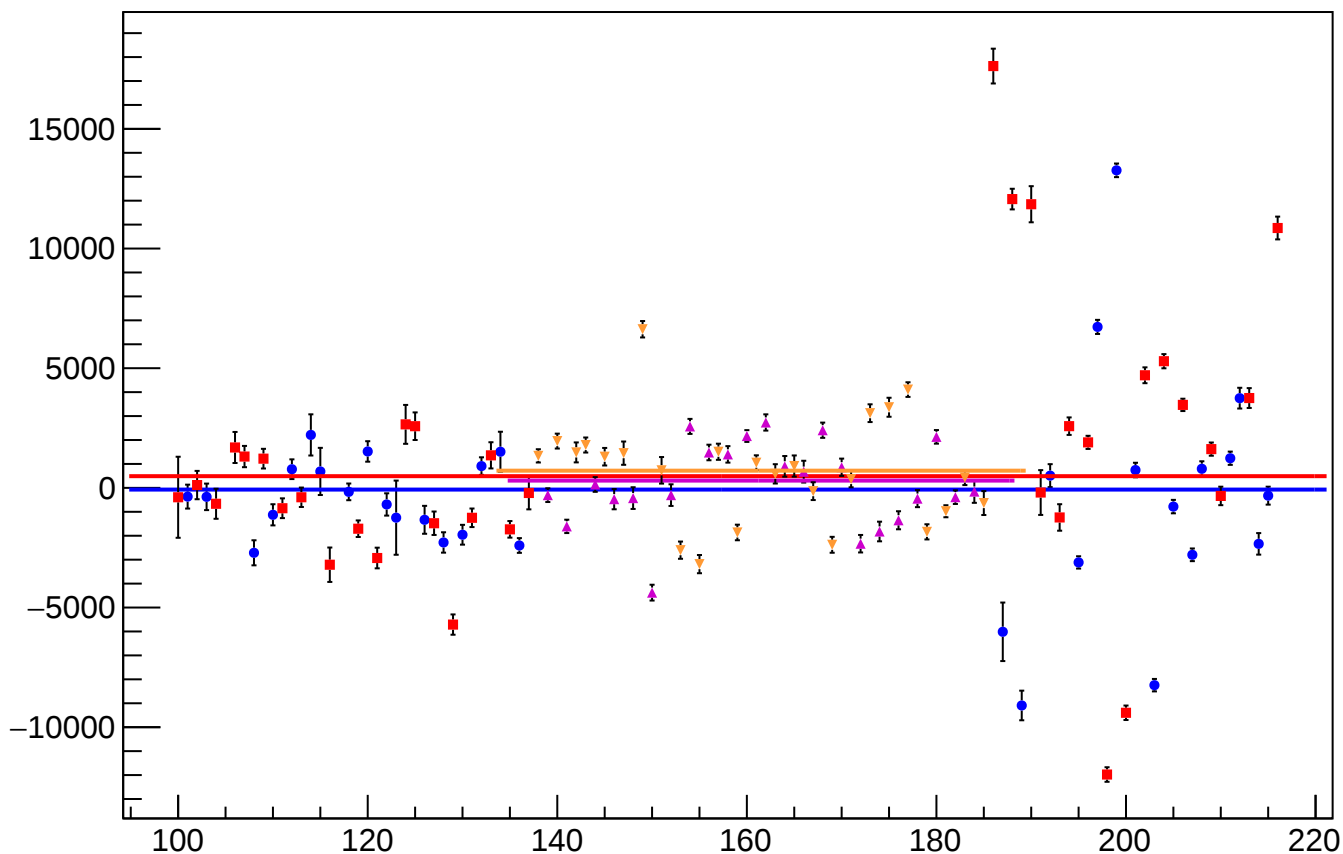
Right: 204.055 $\pm$ 0.025 χ^2/NDF : 4011785.9/66

In: 204.769 $\pm$ 0.025 χ^2/NDF : 2757198.3/54

Out: 211.068 $\pm$ 0.026 χ^2/NDF : 3464168.7/59

All: 207.885 $\pm$ 0.018 χ^2/NDF : 6251722.7/114

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: 488.908+/-70.189 χ^2/NDF : 5912.2/34

Left In: 304.161+/-70.958 χ^2/NDF : 643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

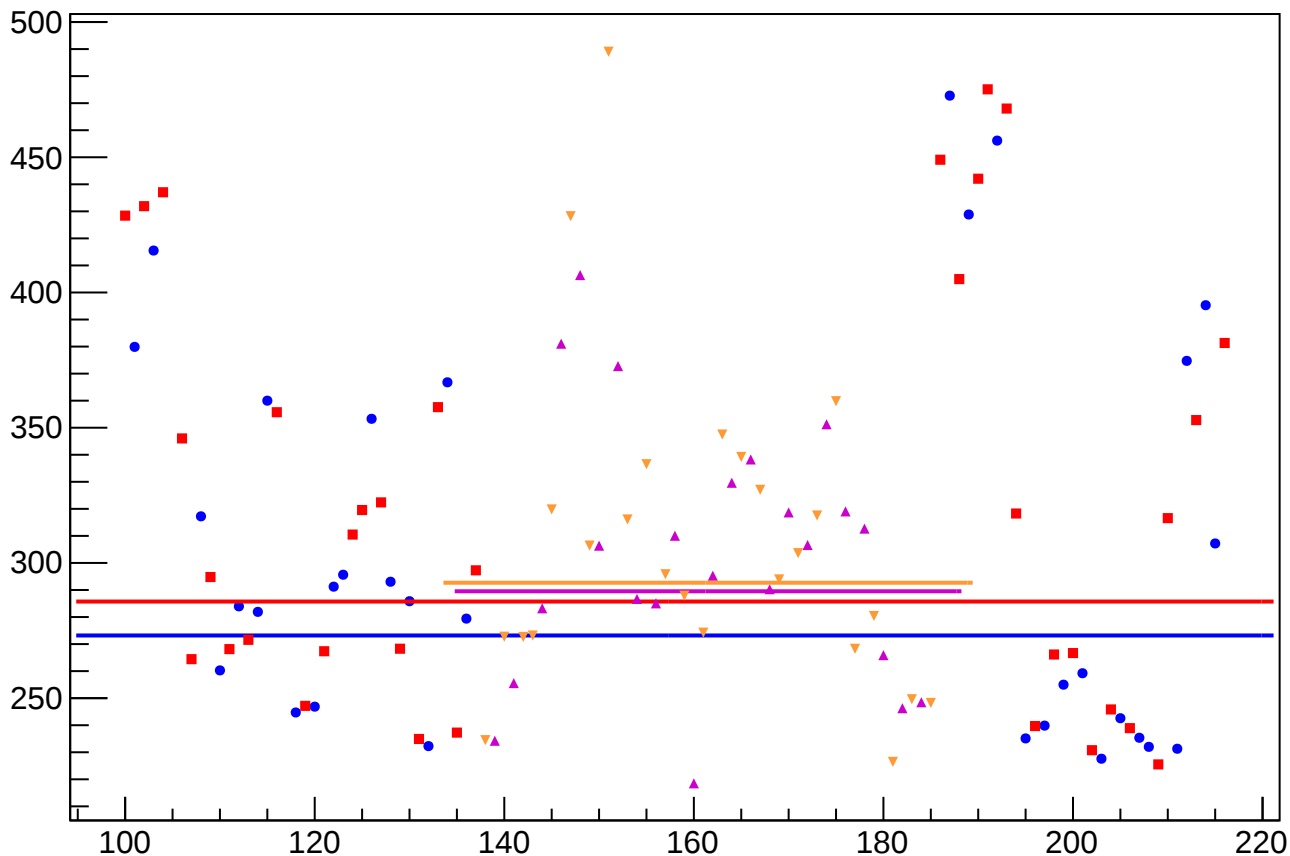
Right: 199.860+/-48.828 χ^2/NDF : 10474.0/66

In: 108.409+/-49.085 χ^2/NDF : 5187.1/54

Out: 604.773+/-49.422 χ^2/NDF : 6936.1/59

All: 354.895+/-34.827 χ^2/NDF : 12173.9/114

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: 285.729 $\pm$ 0.050 χ^2/NDF : 1586117.3/34

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

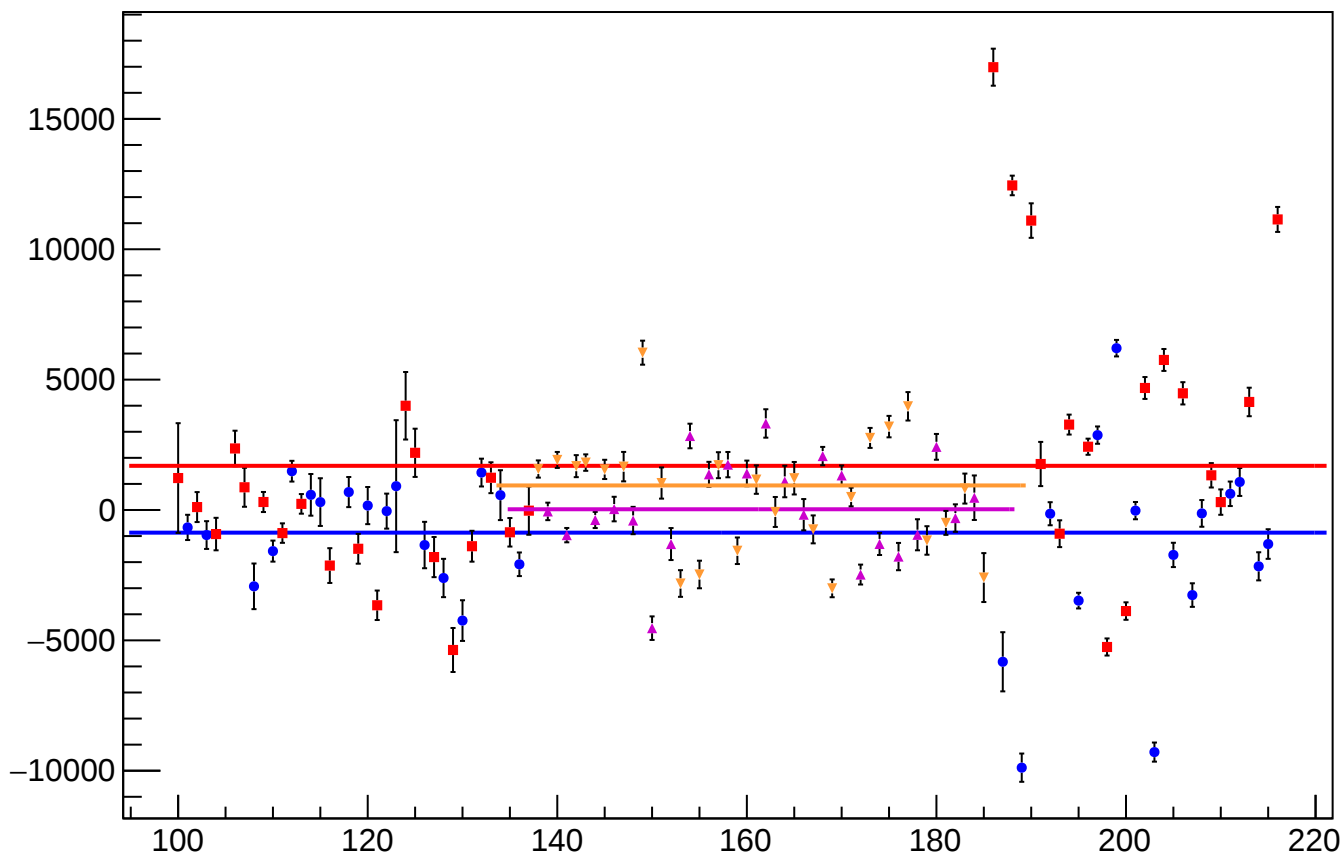
Right: 279.255 $\pm$ 0.035 χ^2/NDF : 3026378.2/66

In: 281.002 $\pm$ 0.035 χ^2/NDF : 2240482.1/54

Out: 289.237 $\pm$ 0.035 χ^2/NDF : 2521217.2/59

All: 285.091 $\pm$ 0.025 χ^2/NDF : 4789654.5/114

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -869.072 ± 87.794 $\chi^2/\text{NDF}: 1710.4/31$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1693.992 ± 84.645 $\chi^2/\text{NDF}: 3265.7/34$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

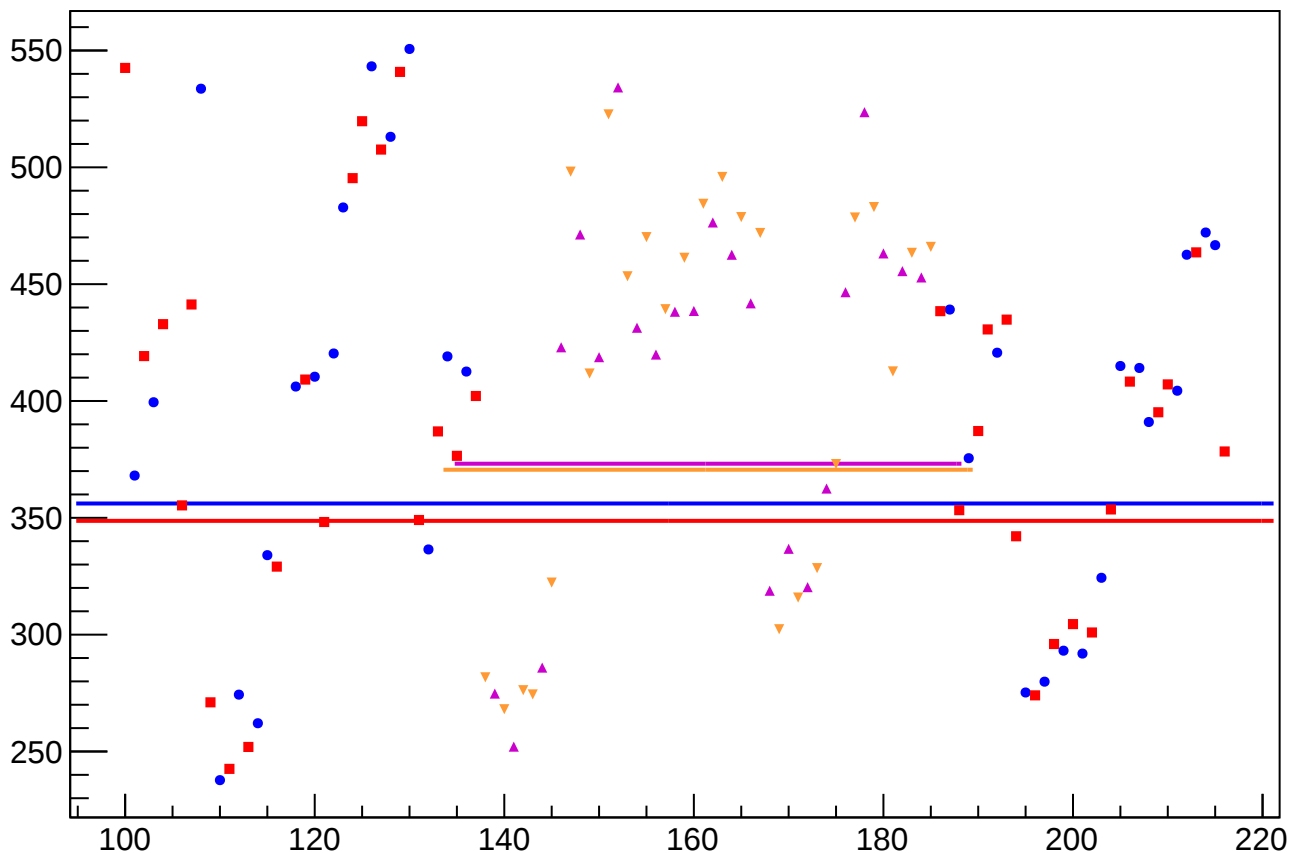
Right: 459.251 ± 60.936 $\chi^2/\text{NDF}: 5417.8/66$

In: -443.231 ± 63.623 $\chi^2/\text{NDF}: 2122.5/54$

Out: 1337.156 ± 61.374 $\chi^2/\text{NDF}: 3847.7/59$

All: 478.993 ± 44.172 $\chi^2/\text{NDF}: 6375.8/114$

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: 348.704 ± 0.060 χ^2/NDF : 1343513.0/34

Left In: 373.161 ± 0.065 χ^2/NDF : 1636244.2/22

Left: 371.824 ± 0.045 χ^2/NDF : 3515172.3/47

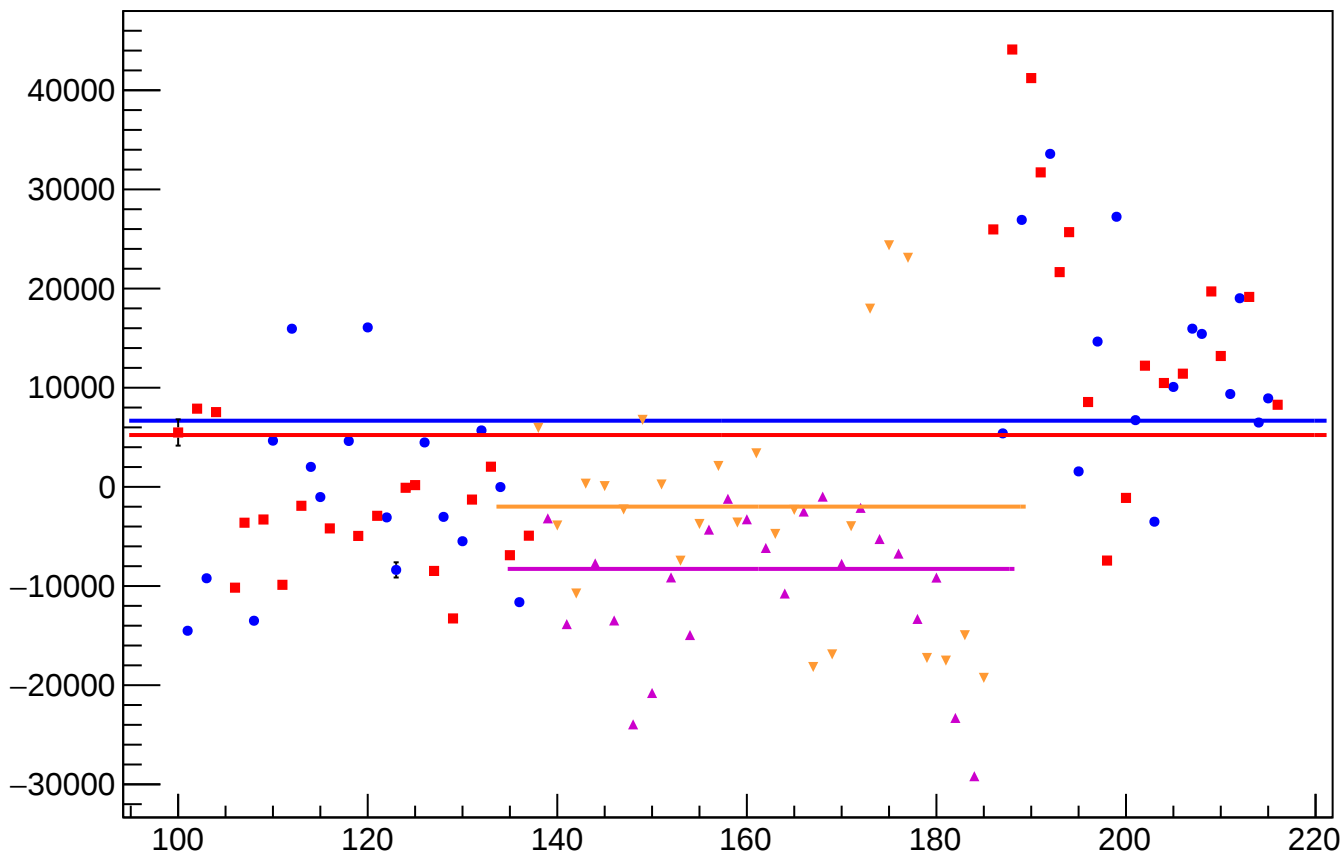
Right: 352.283 ± 0.043 χ^2/NDF : 2947864.4/66

In: 364.218 ± 0.045 χ^2/NDF : 3268895.6/54

Out: 359.079 ± 0.043 χ^2/NDF : 3284988.1/59

All: 361.556 ± 0.031 χ^2/NDF : 6560644.1/114

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: 5228.076+/-38.359 χ^2/NDF : 144170.6/34

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

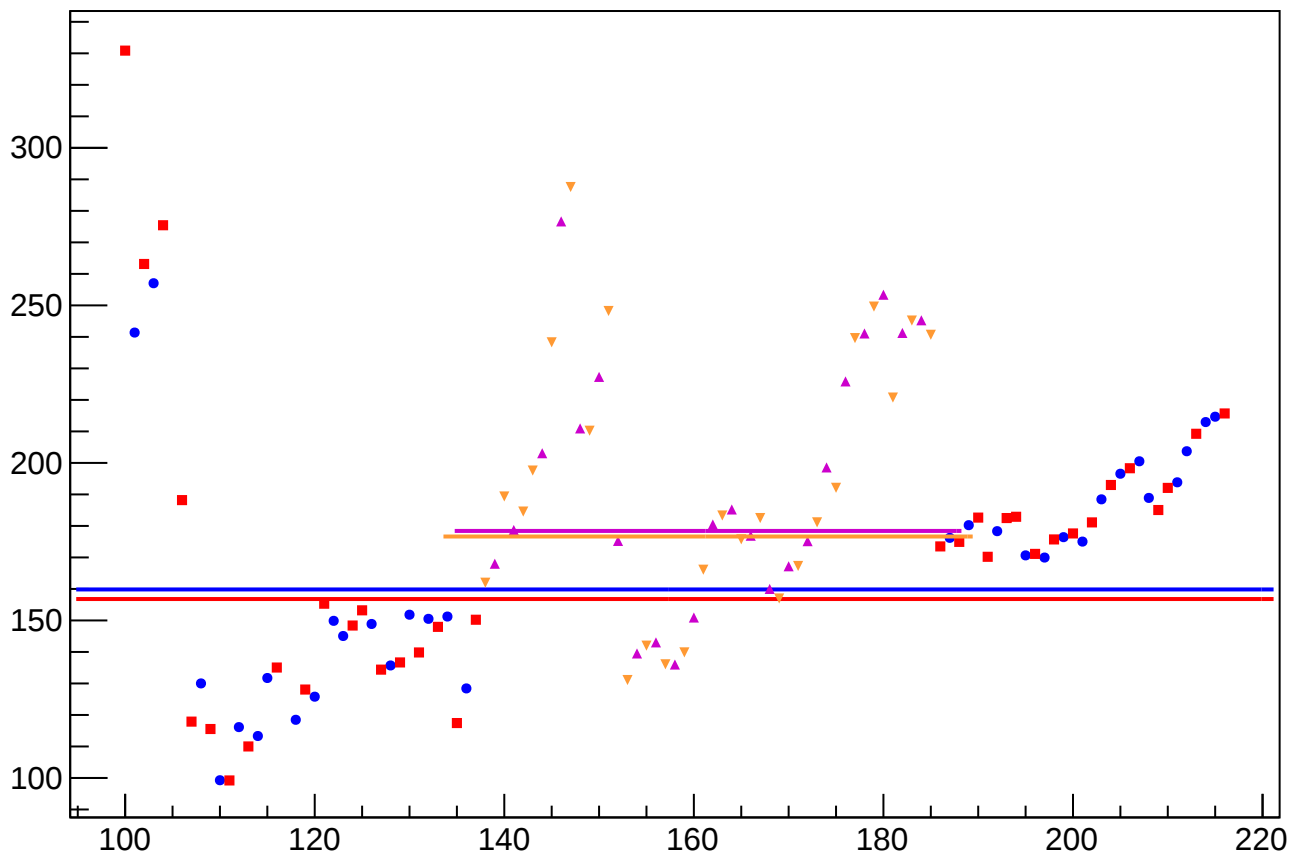
Right: 5926.324+/-27.571 χ^2/NDF : 238627.7/66

In: 24.331+/-29.547 χ^2/NDF : 179830.3/54

Out: 1980.763+/-28.454 χ^2/NDF : 223871.0/59

All: 1039.405+/-20.495 χ^2/NDF : 405976.0/11

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: 156.797+/-0.027 χ^2/NDF : 1829154.3/34

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

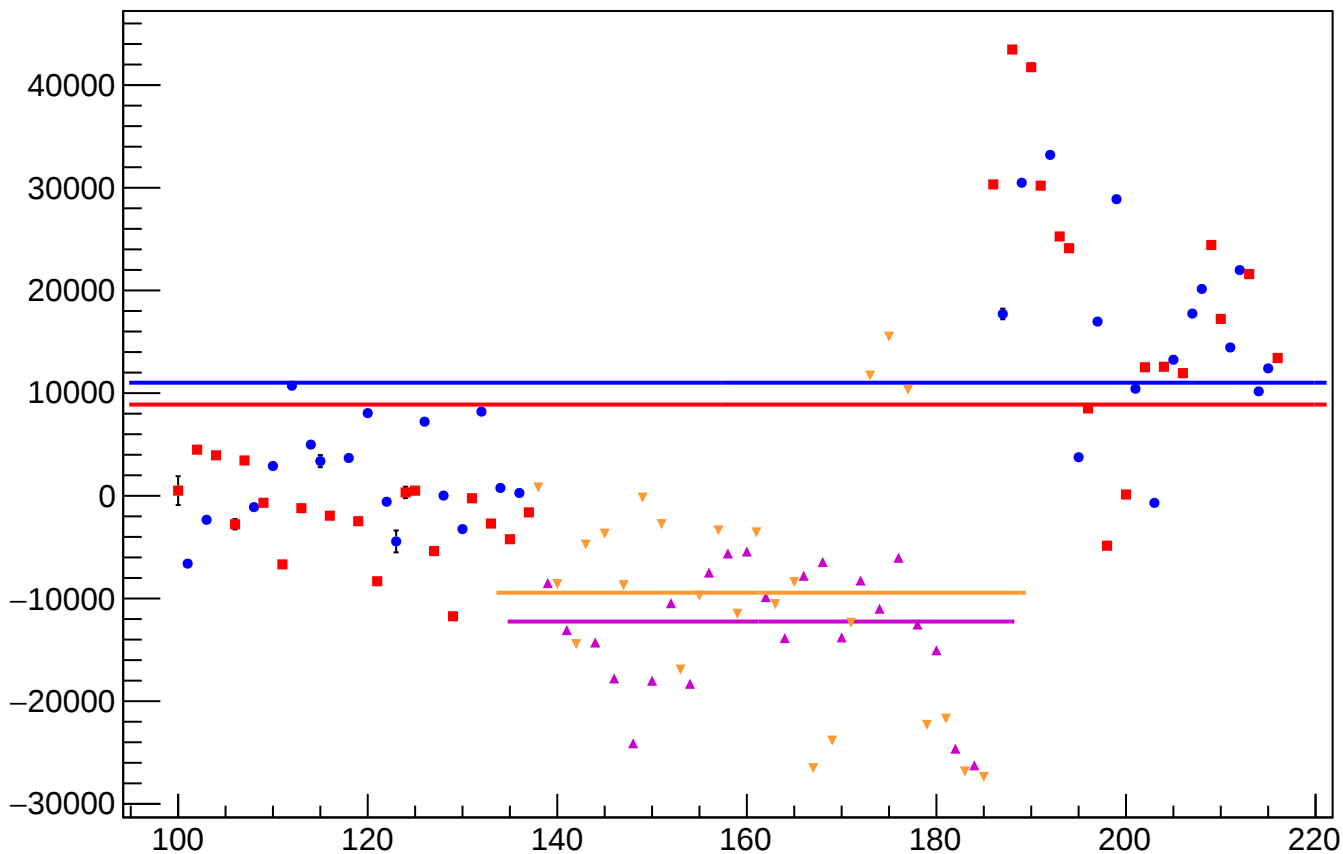
Right: 158.268+/-0.019 χ^2/NDF : 3461171.2/66

In: 168.101+/-0.021 χ^2/NDF :3114855.1/54

Out: 165.722+/-0.020 χ^2/NDF :3620942.7/59

All: 166.867+/-0.014 χ^2/NDF : 6742526.7/114

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 11017.661 +/- 43.579

χ^2/NDF : 55173.7/31

Left: -10889.638 +/- 31.621 χ^2/NDF : 80800.7/47

Right: 9924.062 +/- 30.374 χ^2/NDF : 172377.9/66

Left Out: -9437.408 +/- 45.534

χ^2/NDF : 62220.4/24

In: -515.255 +/- 30.944 χ^2/NDF : 213038.7/54

Out: 388.100 +/- 31.014 χ^2/NDF : 265055.6/59

Right Out: 8890.872 +/- 42.359

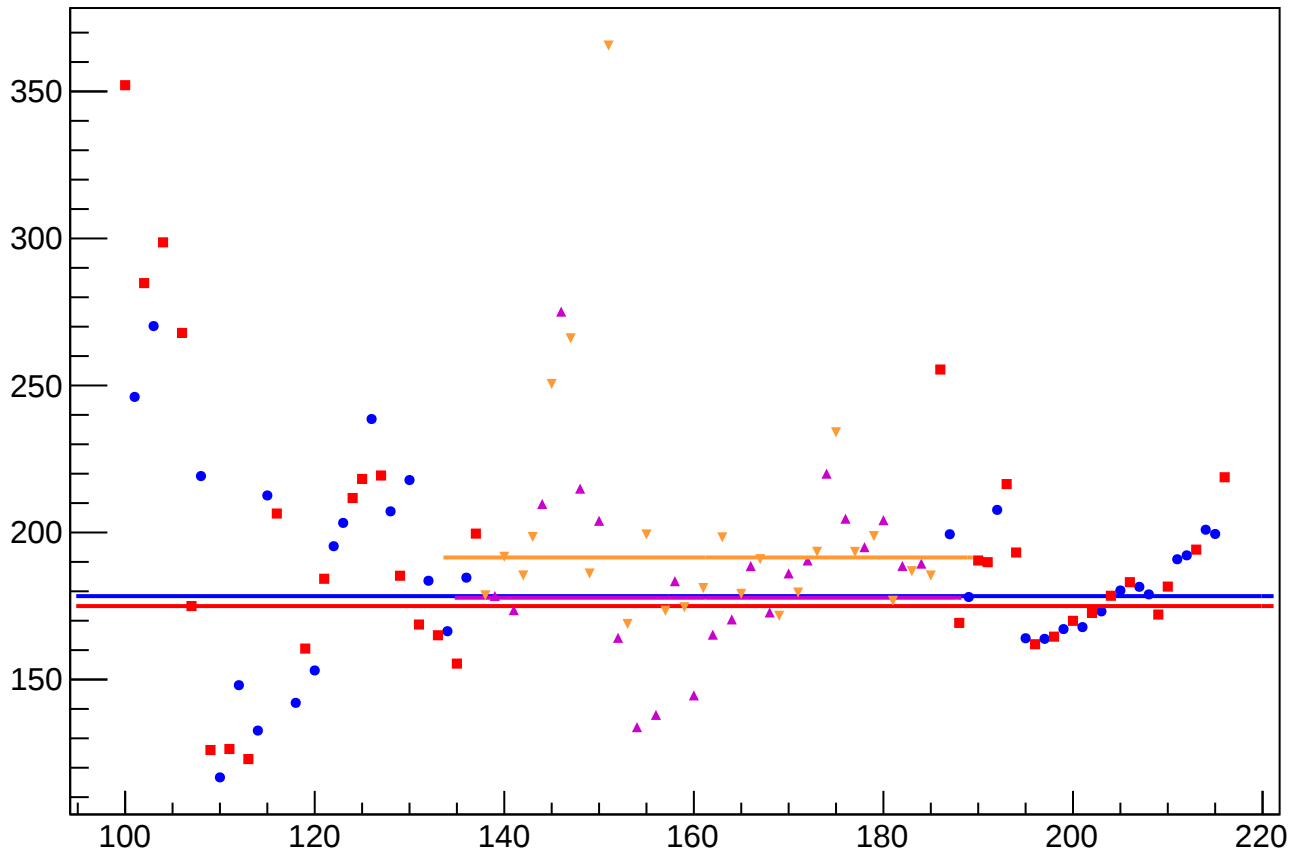
χ^2/NDF : 115979.5/34

Left In: -12242.226 +/- 43.944

χ^2/NDF : 16615.8/22

All: -64.606 +/- 21.905 χ^2/NDF : 478519.5/114

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.360 ± 0.031 $\chi^2/\text{NDF}: 819184.8/31$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 174.976 ± 0.030 $\chi^2/\text{NDF}: 1204608.1/34$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

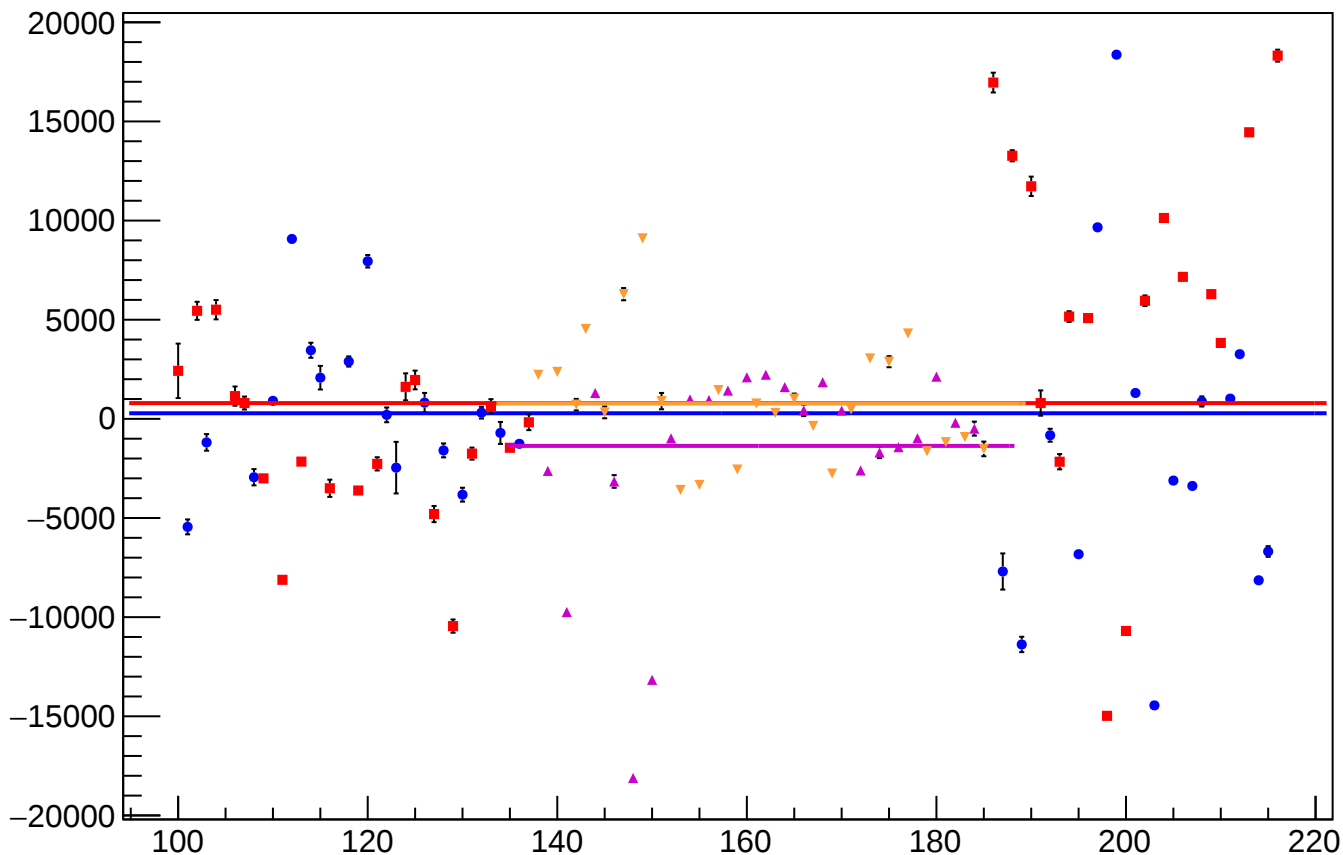
Right: 176.620 ± 0.021 $\chi^2/\text{NDF}: 2029993.3/66$

In: 178.093 ± 0.022 $\chi^2/\text{NDF}: 1681830.6/54$

Out: 182.645 ± 0.022 $\chi^2/\text{NDF}: 2073167.6/59$

All: 180.364 ± 0.015 $\chi^2/\text{NDF}: 3776589.1/114$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 282.412 +/- 48.813 χ^2/NDF : 22329.3/31

Left Out: 779.983 +/- 47.457 χ^2/NDF : 4260.8/24

Right Out: 795.328 +/- 47.652 χ^2/NDF : 28417.2/34

Left In: -1363.043 +/- 45.807 χ^2/NDF : 11632.9/22

Left: -329.448 +/- 32.958 χ^2/NDF : 16949.3/47

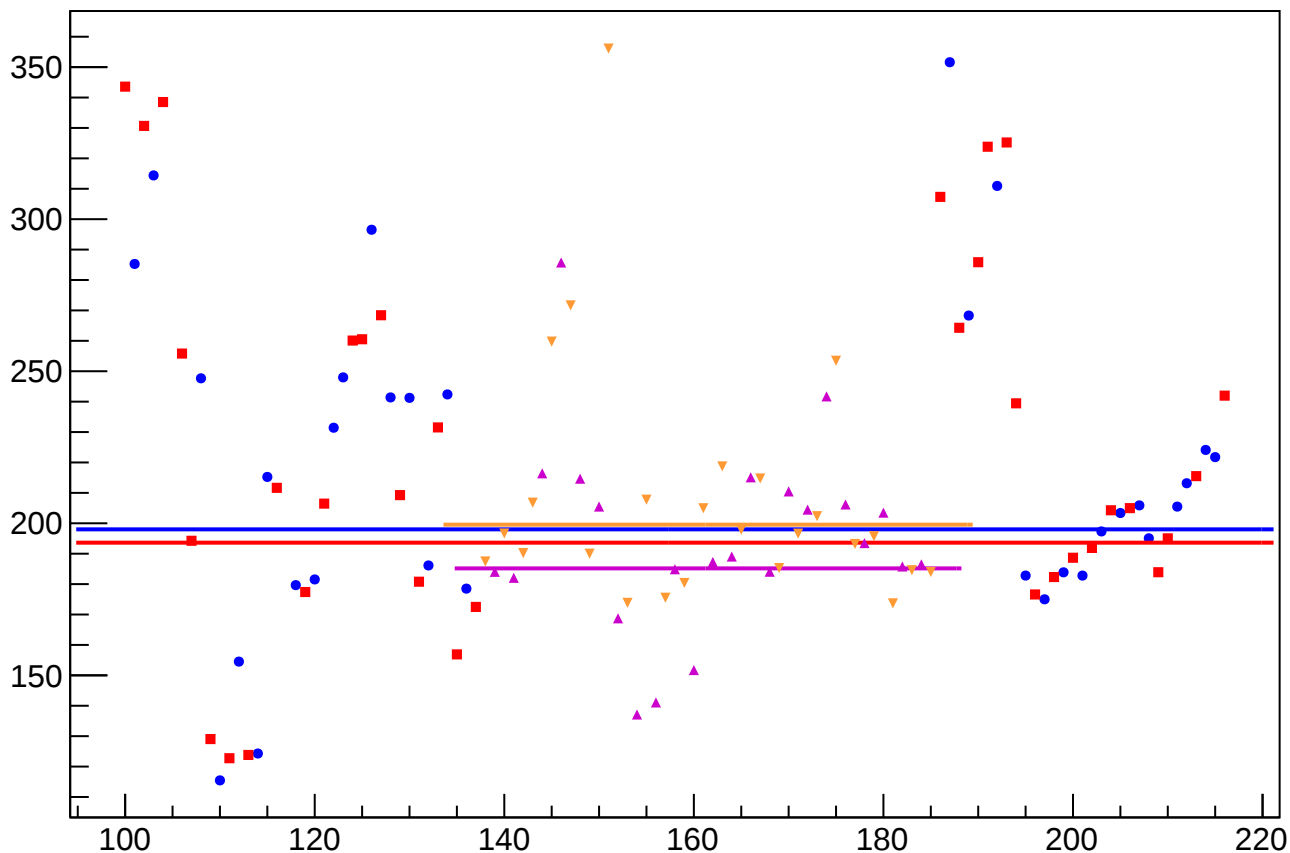
Right: 545.038 +/- 34.098 χ^2/NDF : 50803.0/66

In: -592.538 +/- 33.402 χ^2/NDF : 34566.4/54

Out: 787.624 +/- 33.626 χ^2/NDF : 32678.0/59

All: 92.934 +/- 23.698 χ^2/NDF : 68092.3/114

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: 193.625 ± 0.034 $\chi^2/\text{NDF}: 2215673.2/34$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

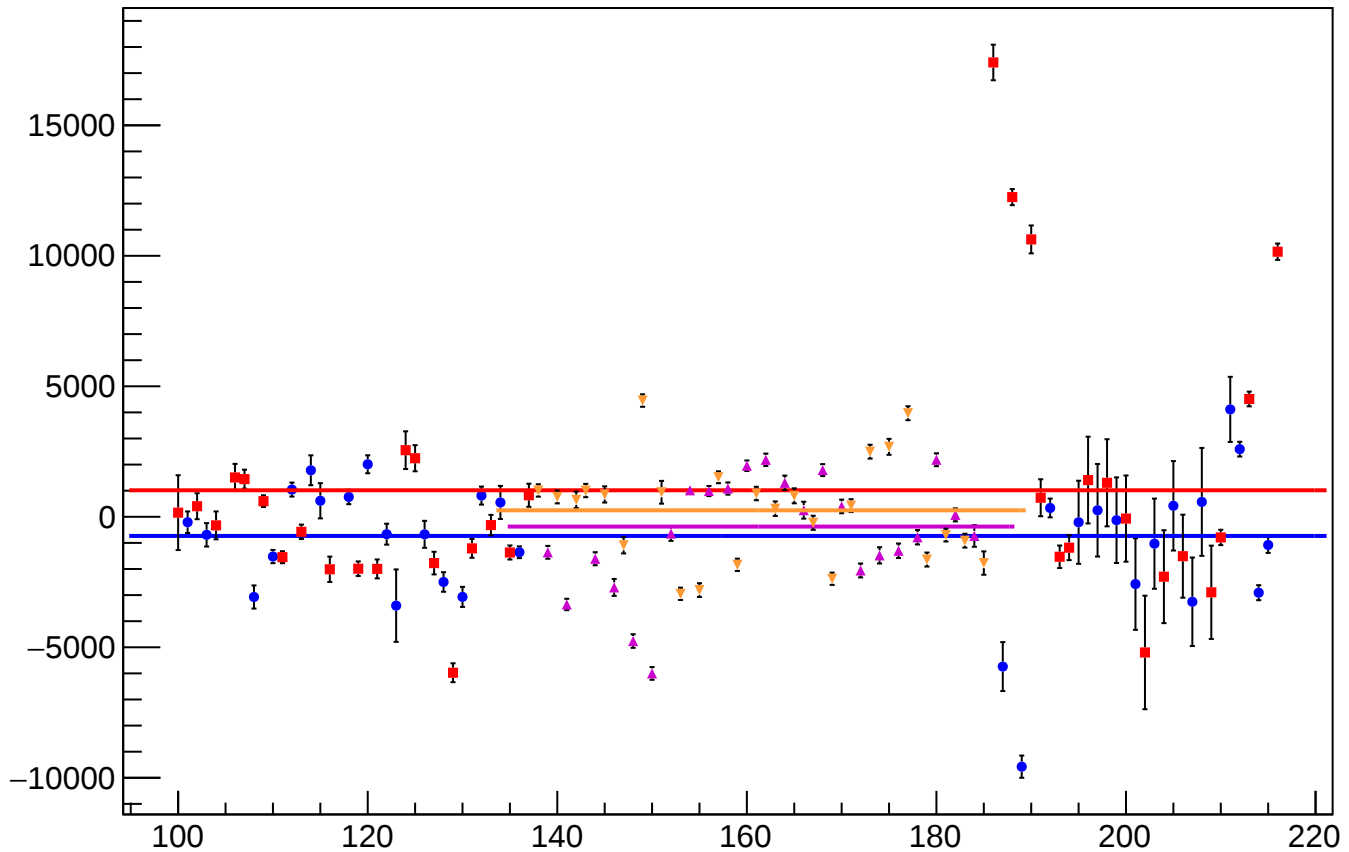
Right: 195.764 ± 0.024 $\chi^2/\text{NDF}: 3692302.9/66$

In: 191.182 ± 0.024 $\chi^2/\text{NDF}: 2424683.8/54$

Out: 196.598 ± 0.024 $\chi^2/\text{NDF}: 2960537.8/59$

All: 193.872 ± 0.017 $\chi^2/\text{NDF}: 5411334.7/114$

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: 1015.856 ± 68.610 $\chi^2/\text{NDF}: 4295.2/34$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

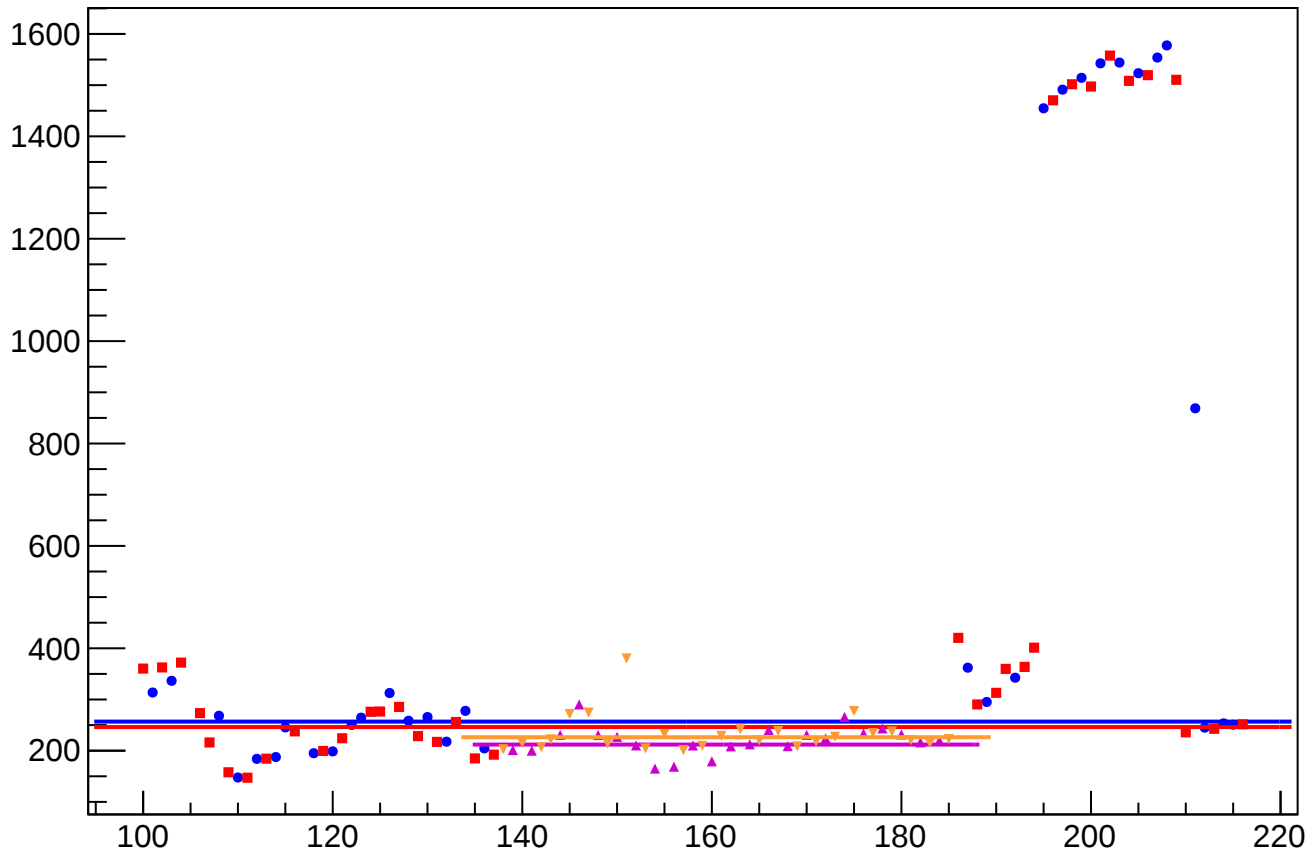
Right: 213.852 ± 50.490 $\chi^2/\text{NDF}: 5570.5/66$

In: -491.849 ± 42.680 $\chi^2/\text{NDF}: 2793.9/54$

Out: 538.617 ± 42.217 $\chi^2/\text{NDF}: 5728.1/59$

All: 29.011 ± 30.014 $\chi^2/\text{NDF}: 8816.7/114$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.836+/-0.053 χ^2/NDF : 10146968.3/31

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 246.170+/-0.049 χ^2/NDF : 9273928.5/34

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

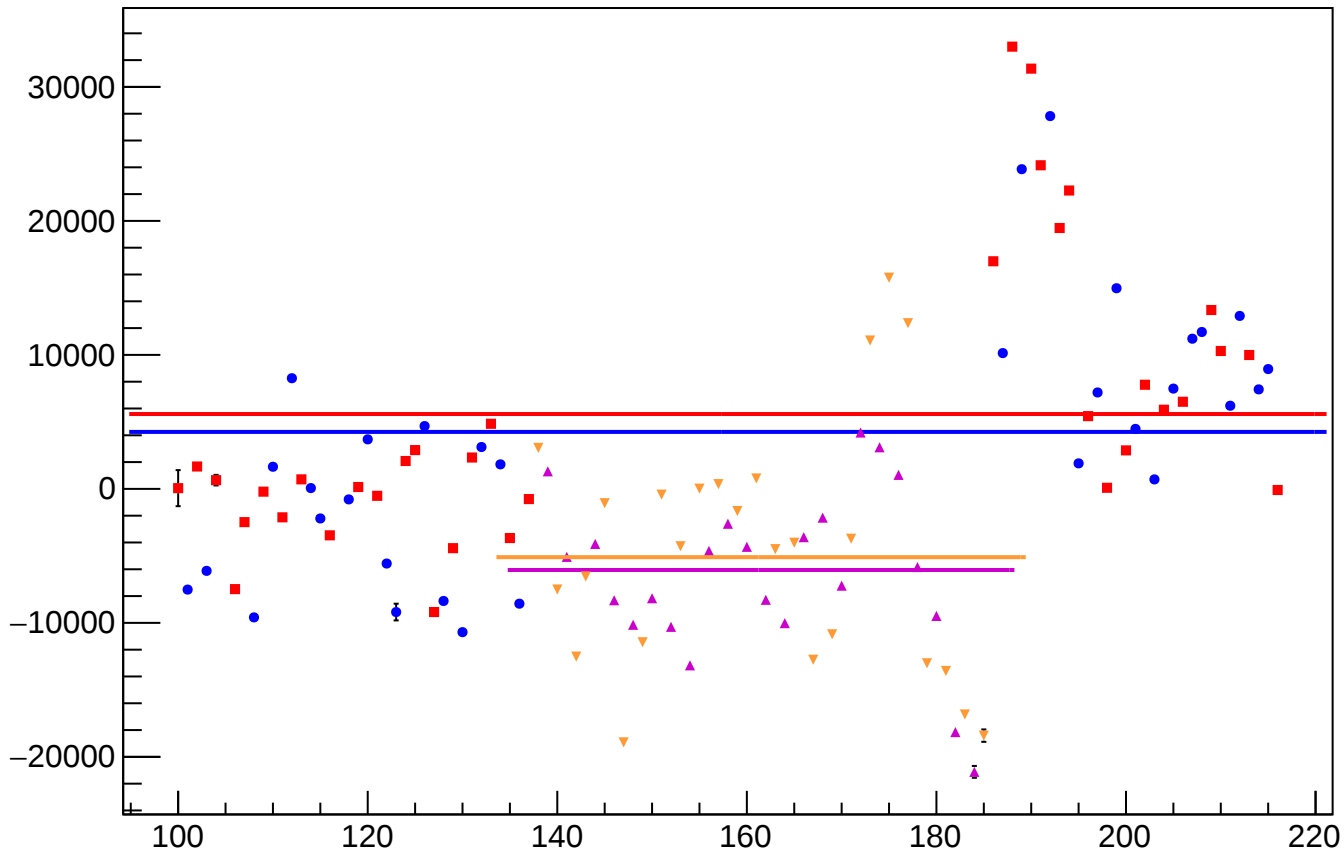
Right: 251.060+/-0.036 χ^2/NDF : 19443058.9/66

In: 226.668+/-0.030 χ^2/NDF : 11218155.1/54

Out: 233.836+/-0.030 χ^2/NDF : 9898974.1/59

All: 230.291+/-0.021 χ^2/NDF : 21145642.8/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4252.380 ± 33.717 $\chi^2/\text{NDF}: 80123.8/31$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 5587.122 ± 32.382 $\chi^2/\text{NDF}: 104525.7/34$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5556.386 ± 24.277 $\chi^2/\text{NDF}: 72374.6/47$

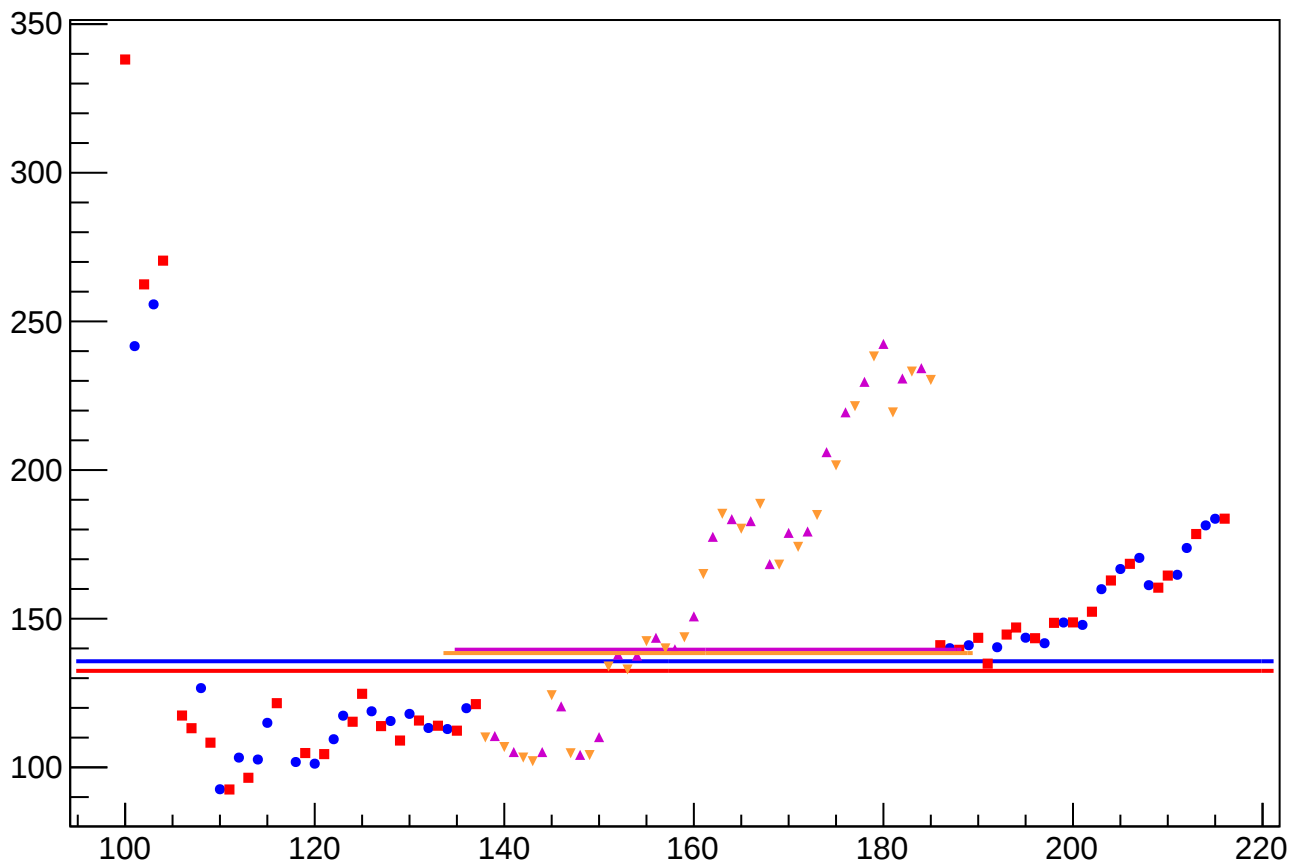
Right: 4946.698 ± 23.356 $\chi^2/\text{NDF}: 185464.7/66$

In: -708.589 ± 24.282 $\chi^2/\text{NDF}: 142686.5/54$

Out: 459.368 ± 23.351 $\chi^2/\text{NDF}: 211158.3/59$

All: -101.790 ± 16.831 $\chi^2/\text{NDF}: 355046.8/11$

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: 132.454+/-0.023 χ^2/NDF : 1687712.1/34

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

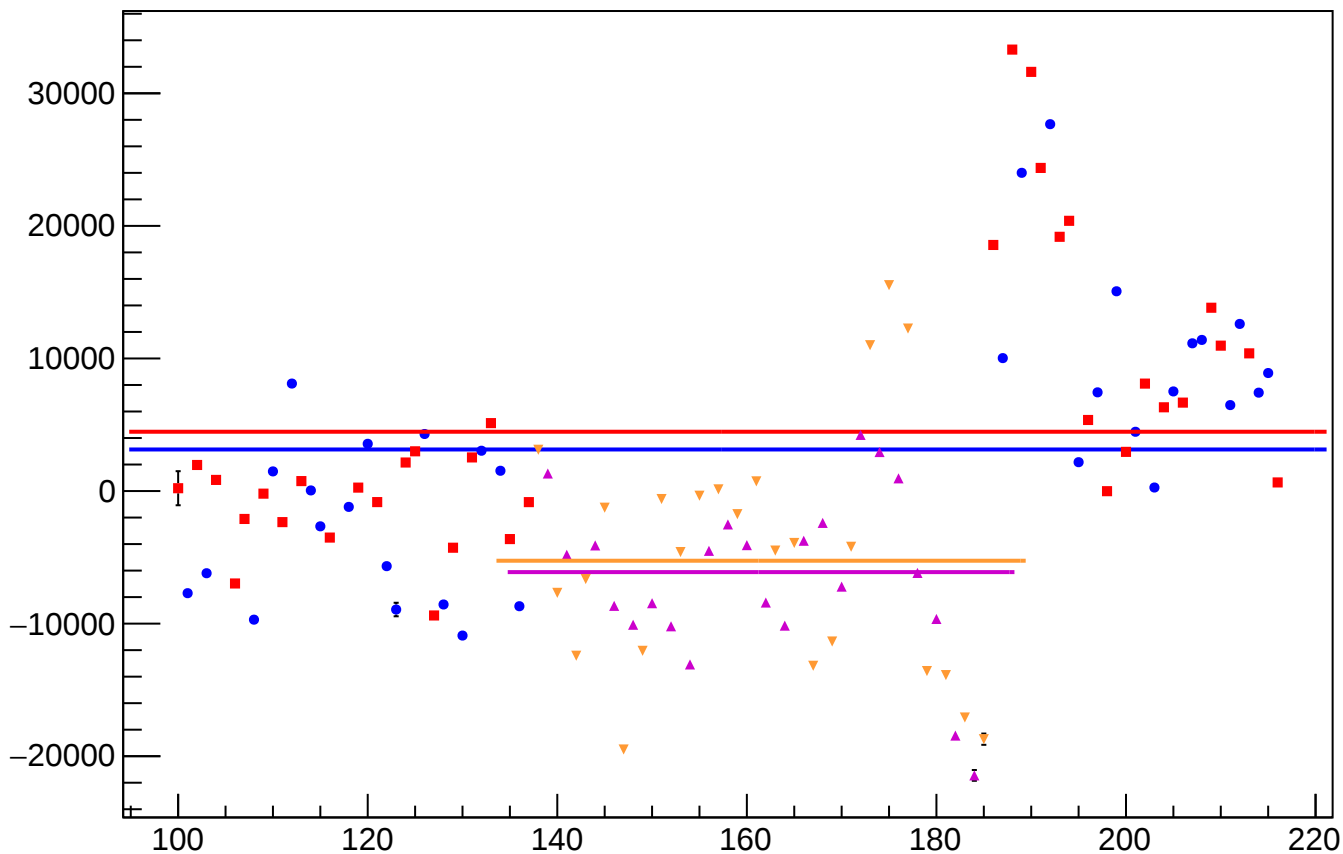
Right: 134.004+/-0.017 χ^2/NDF : 3329297.3/66

In: 137.558+/-0.017 χ^2/NDF :4058535.5/54

Out: 135.325+/-0.017 χ^2/NDF :4269907.2/59

All: 136.398+/-0.012 χ^2/NDF : 8337230.6/114

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: 4473.693+/-29.180 χ^2/NDF : 114066.0/34

Left In: -6114.901+/-32.126 χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166 χ^2/NDF : 85960.3/47

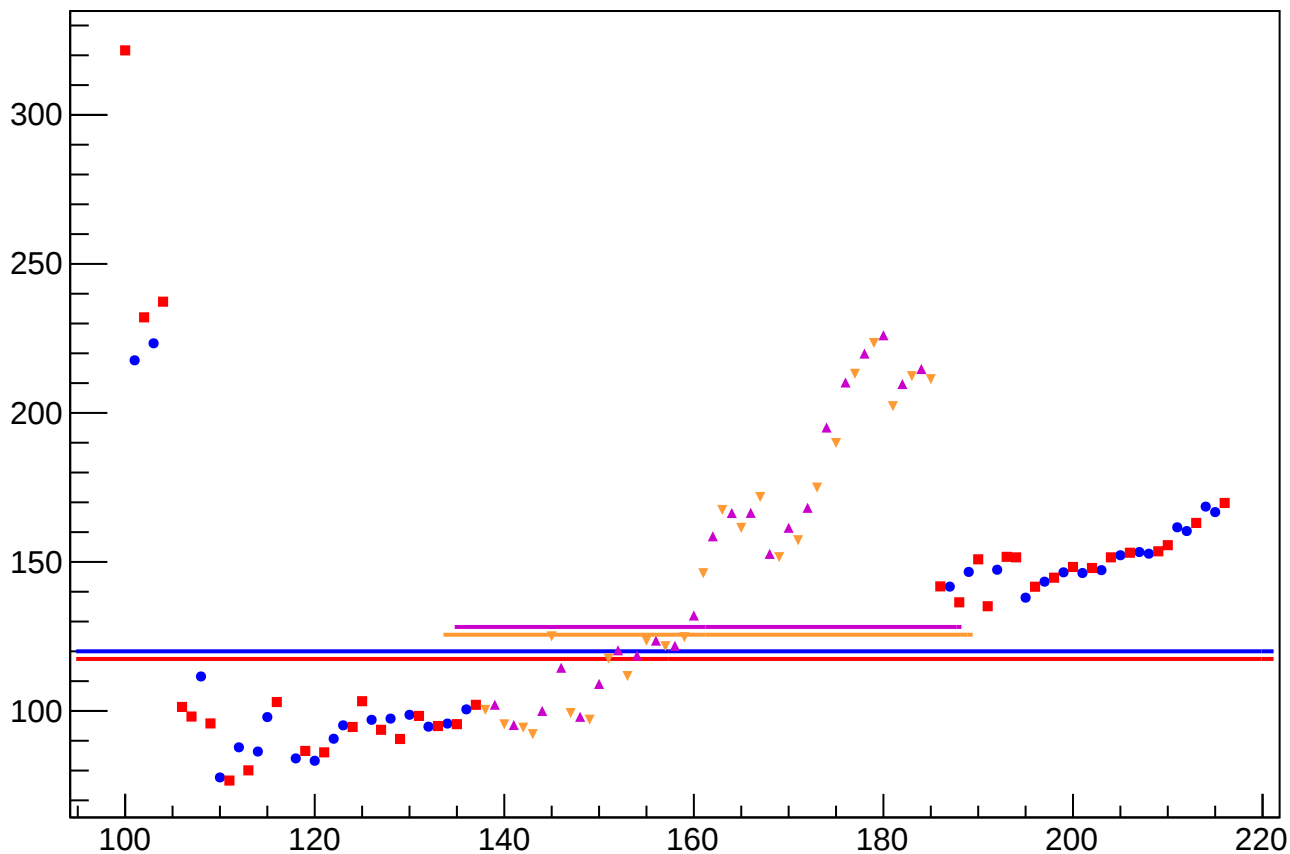
Right: 3828.938+/-21.006 χ^2/NDF : 206164.2/66

In: -1213.805+/-22.028 χ^2/NDF : 156274.5/54

Out: -156.589+/-21.125 χ^2/NDF : 231297.0/59

All: -663.076+/-15.247 χ^2/NDF : 388771.4/11

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 120.015+/-0.021 χ^2/NDF : 2445272.5/31

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 117.452+/-0.021 χ^2/NDF : 2599084.7/34

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

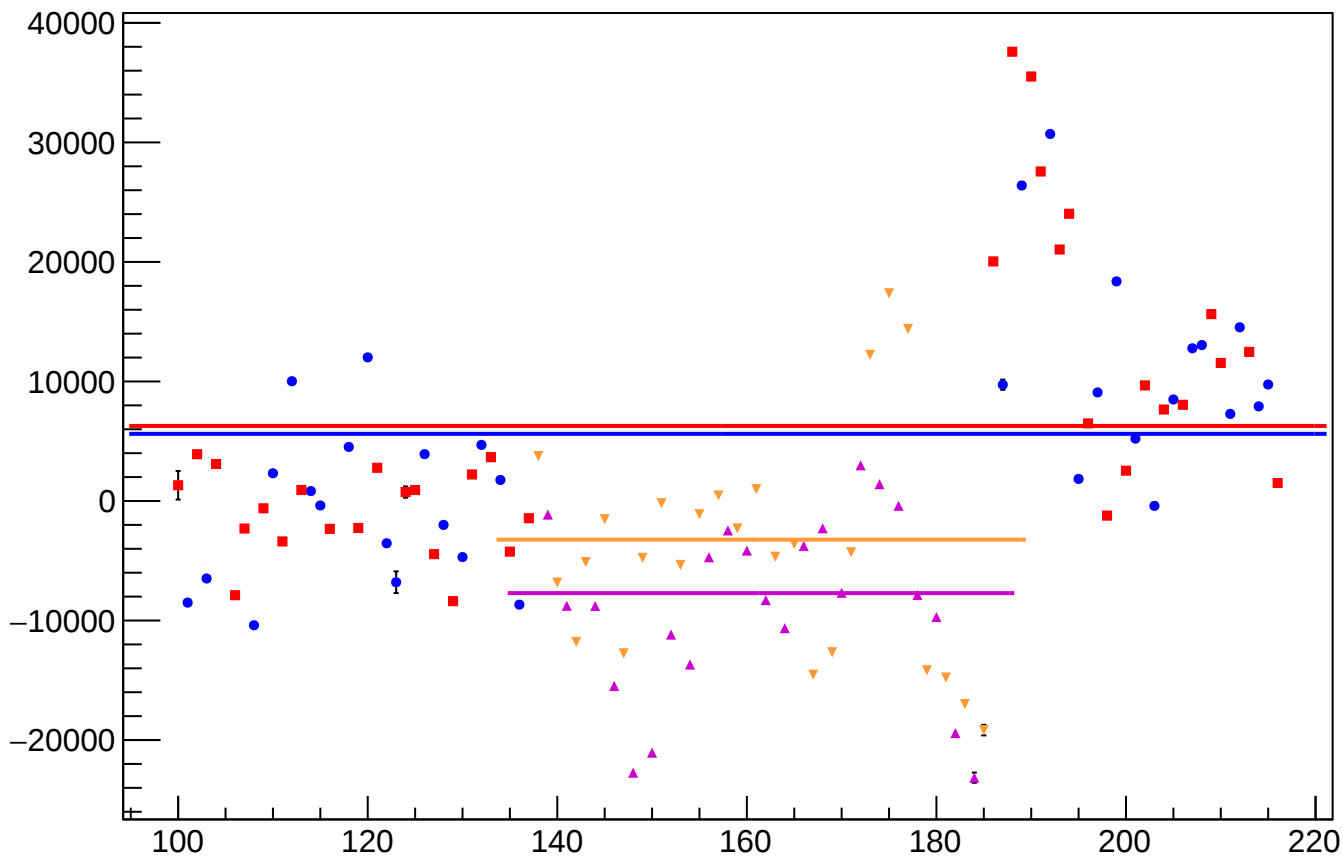
Right: 118.687+/-0.015 χ^2/NDF : 5051794.0/66

In: 123.856+/-0.016 χ^2/NDF : 4846758.0/54

Out: 121.319+/-0.015 χ^2/NDF : 5268641.3/59

All: 122.534+/-0.011 χ^2/NDF : 10129219.2/111

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5618.191 $\pm$ 39.982 χ^2/NDF : 62901.2/31

Left Out: -3234.922 $\pm$ 40.583 χ^2/NDF : 36739.9/24

Right Out: 6278.024 $\pm$ 38.477 χ^2/NDF : 93760.4/34

Left In: -7707.068 $\pm$ 42.990 χ^2/NDF : 21268.3/22

Left: -5342.284 $\pm$ 29.511 χ^2/NDF : 63730.6/47

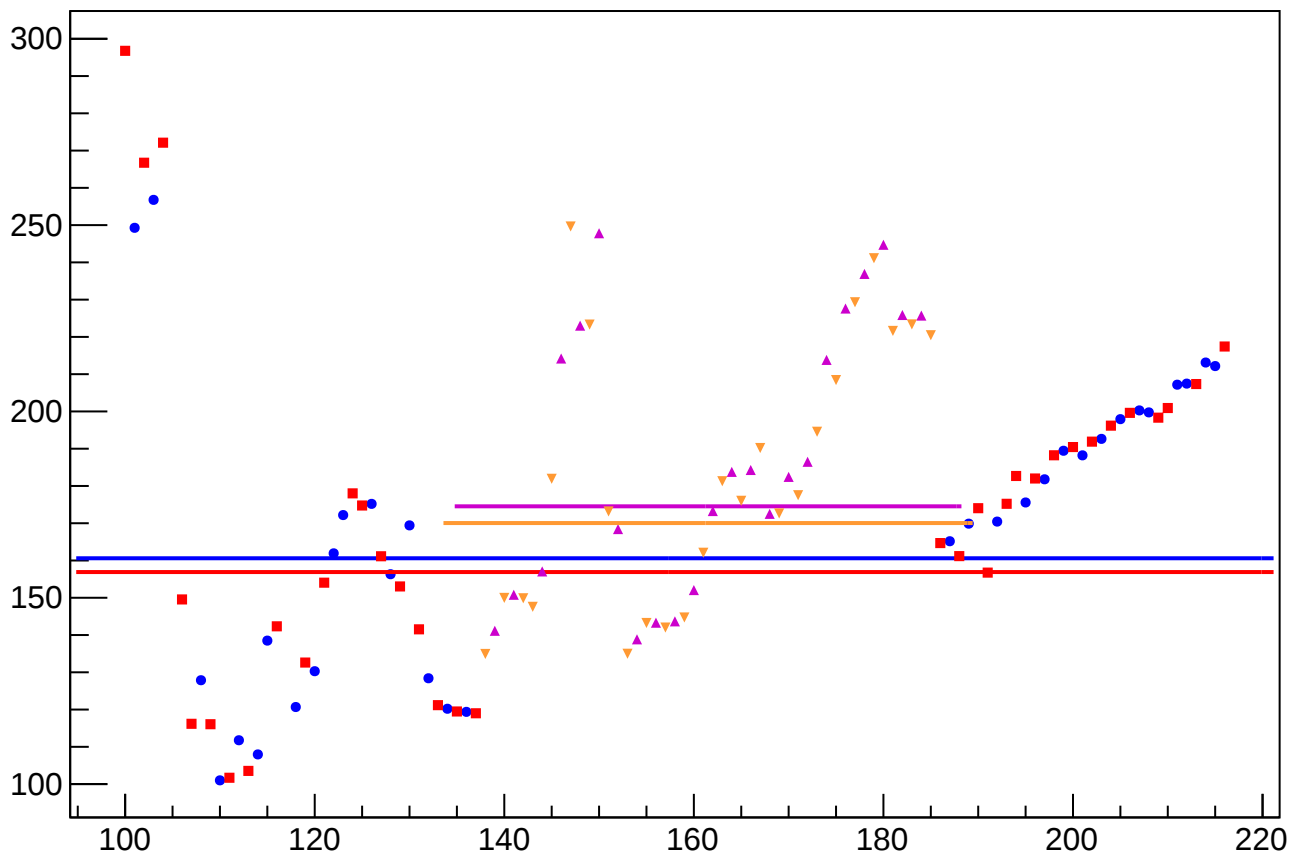
Right: 5960.753 $\pm$ 27.724 χ^2/NDF : 156803.1/66

In: -561.945 $\pm$ 29.277 χ^2/NDF : 135686.8/54

Out: 1774.675 $\pm$ 27.922 χ^2/NDF : 159436.2/59

All: 661.678 $\pm$ 20.206 χ^2/NDF : 298458.7/114

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 160.599+/-0.028 χ^2/NDF : 1901246.5/31

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 156.900+/-0.027 χ^2/NDF : 1990743.3/34

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.165+/-0.021 χ^2/NDF : 2462472.2/47

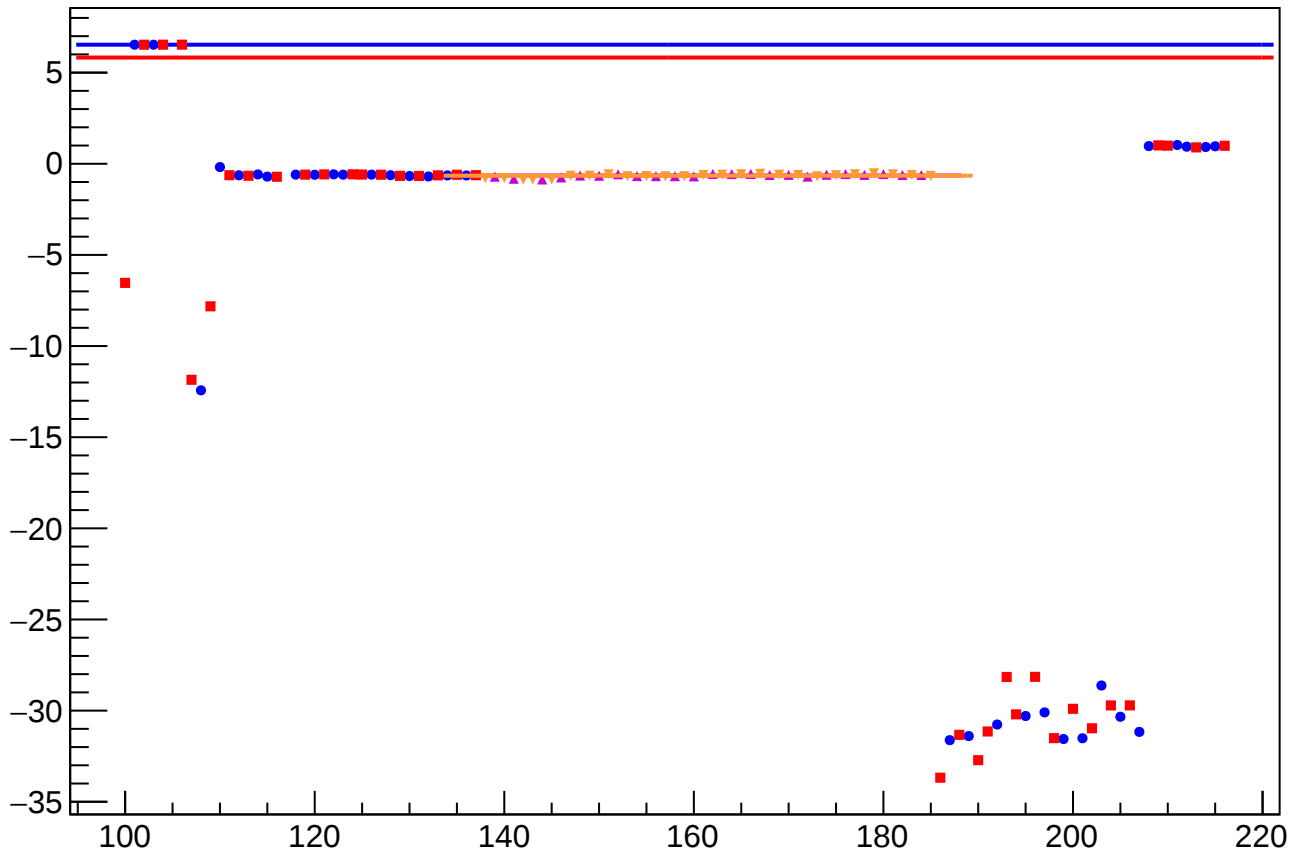
Right: 158.679+/-0.020 χ^2/NDF : 3900876.6/66

In: 167.064+/-0.021 χ^2/NDF :3224075.8/54

Out: 163.125+/-0.020 χ^2/NDF :3342178.6/59

All: 165.002+/-0.014 χ^2/NDF : 6585216.2/114

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 : 755952943512190.9/34

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

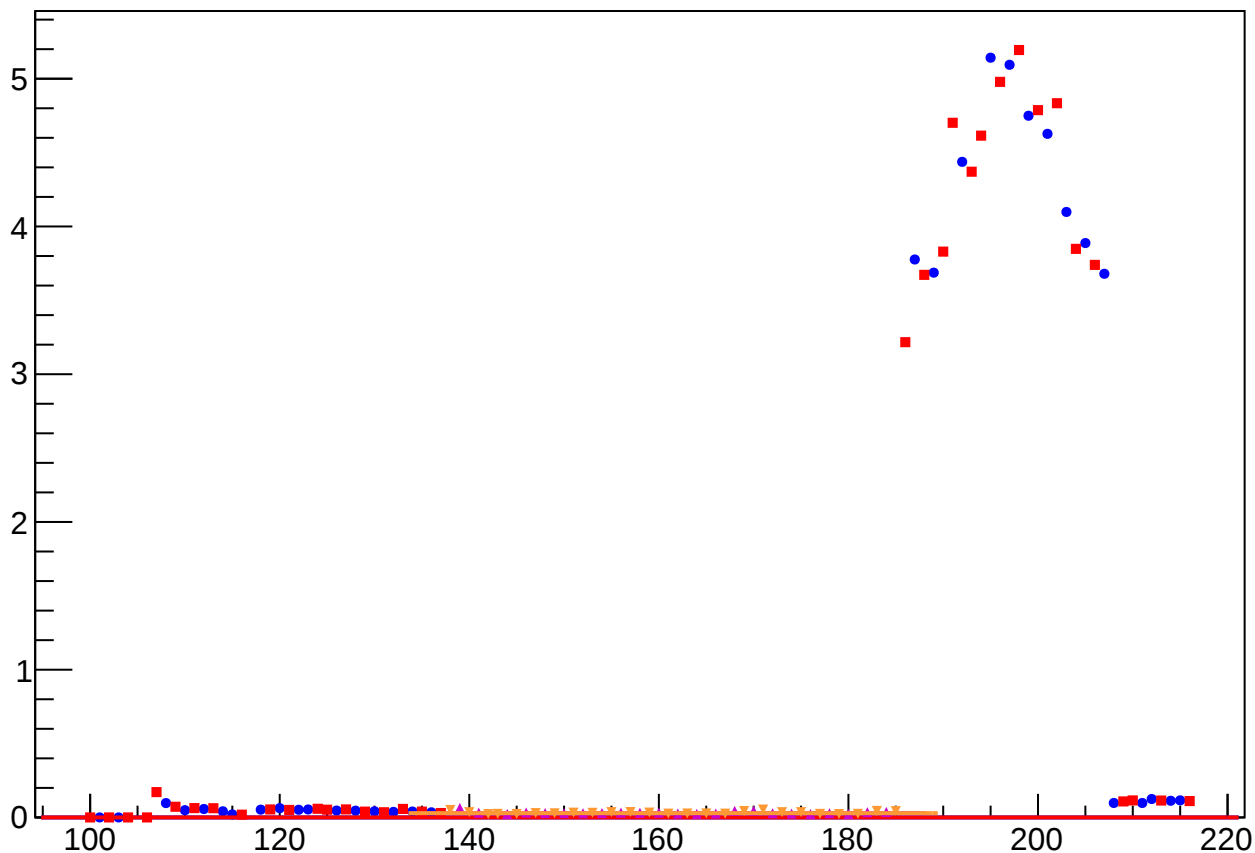
Right: 6.155+/-0.000 χ^2/NDF : 776092621145041.6/47

In: 6.530+/-0.000 χ^2/NDF : 962311519358.5/54

Out: 5.826+/-0.000 χ^2/NDF : 756661969529564.9/54

All: 6.153+/-0.000 χ^2/NDF : 77761598370336.0/94

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 : 30315949.8/34

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

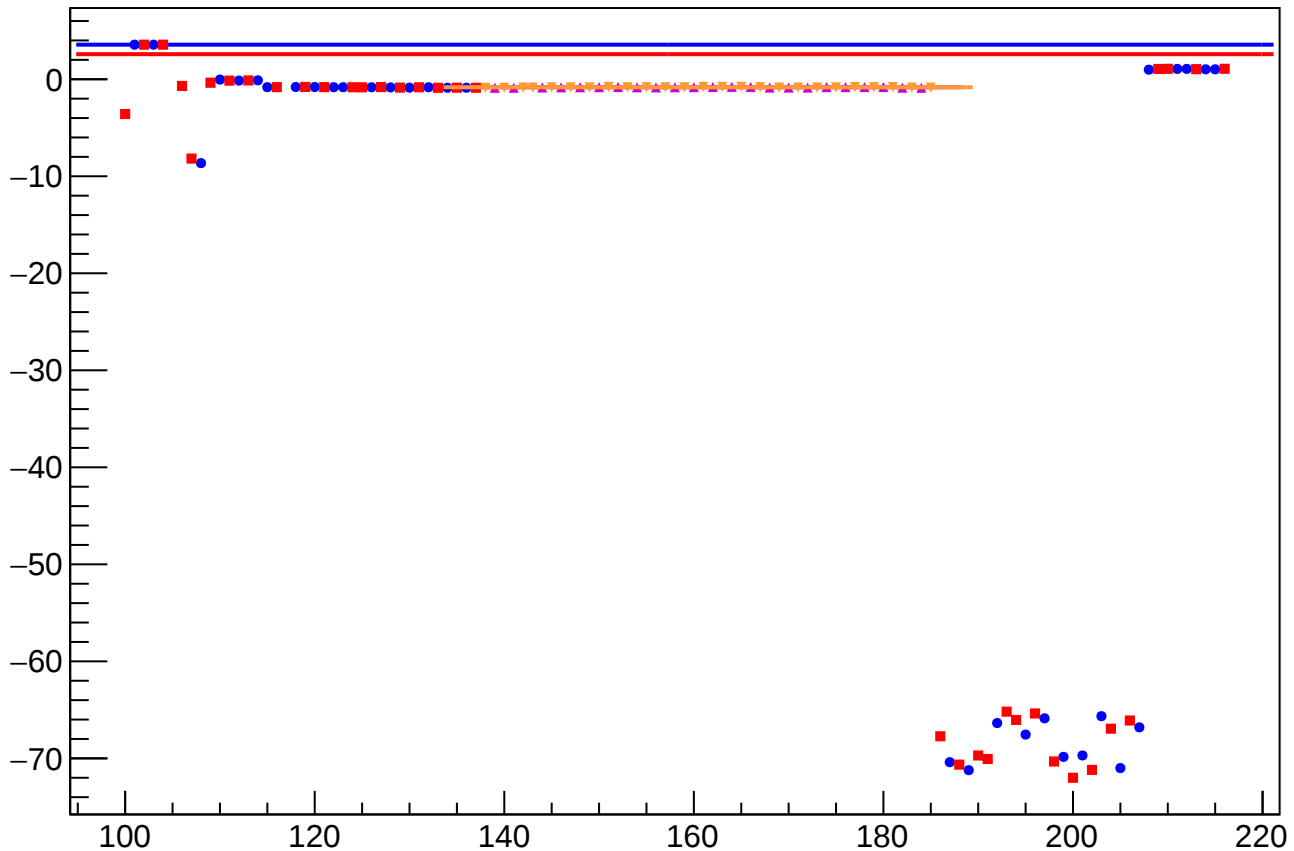
Right: 0.000+/-0.000 χ^2/NDF : 60061362.9/66

In: 0.000+/-0.000 χ^2/NDF :57706024.6/54

Out: 0.000+/-0.000 χ^2/NDF :60191069.4/59

All: 0.000+/-0.000 χ^2/NDF : 117897561.2/114

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 : 1253552558384997.8/34

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

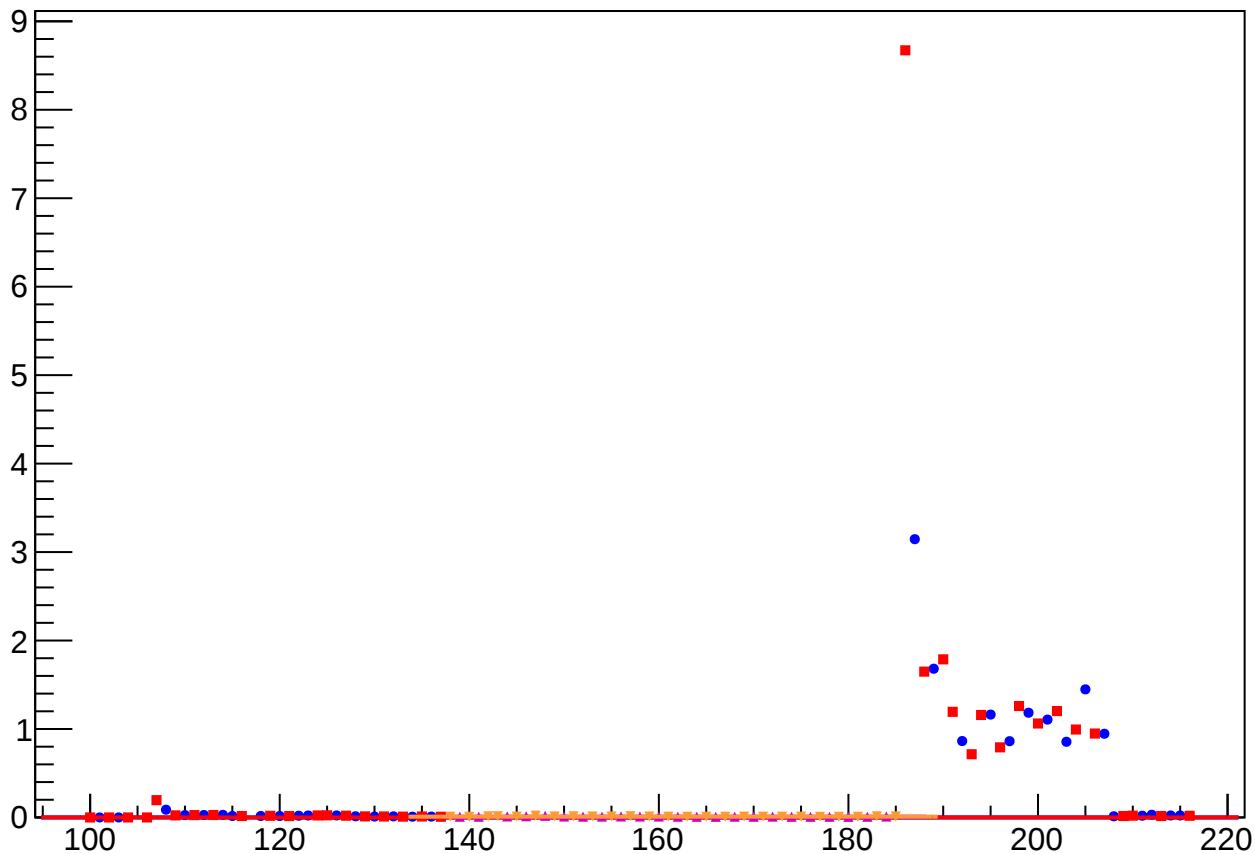
Right: 3.040+/-0.000 χ^2/NDF : 1382378070076925.1

In: 3.560+/-0.000 χ^2/NDF : 4204471152711.8/54

Out: 2.581+/-0.000 χ^2/NDF : 1255774833050168.2

All: 3.038+/-0.000 χ^2/NDF : 13880643726890

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 : 28051973.0/34

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

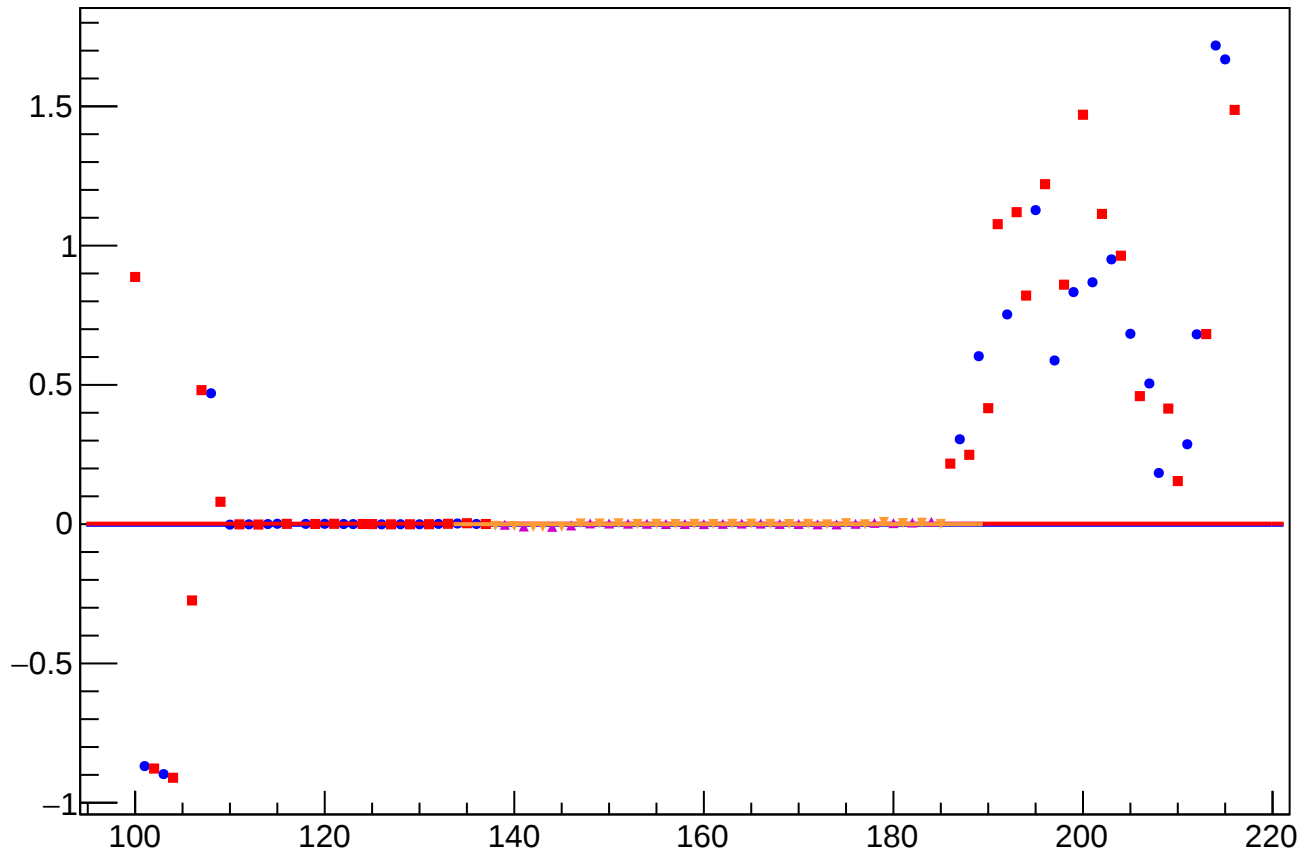
Right: 0.000+/-0.000 χ^2/NDF : 55151746.4/66

In: 0.000+/-0.000 χ^2/NDF :56631814.6/54

Out: 0.000+/-0.000 χ^2/NDF :59467209.0/59

All: 0.000+/-0.000 χ^2/NDF : 116099836.5/114

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000 χ^2/NDF : 9797769609.7/31

Left Out: -0.000 ± 0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002 ± 0.000 χ^2/NDF : 3043986194.7/34

Left In: 0.001 ± 0.000 χ^2/NDF : 101439617.3/22

Left: 0.000 ± 0.000 χ^2/NDF : 254436385.6/47

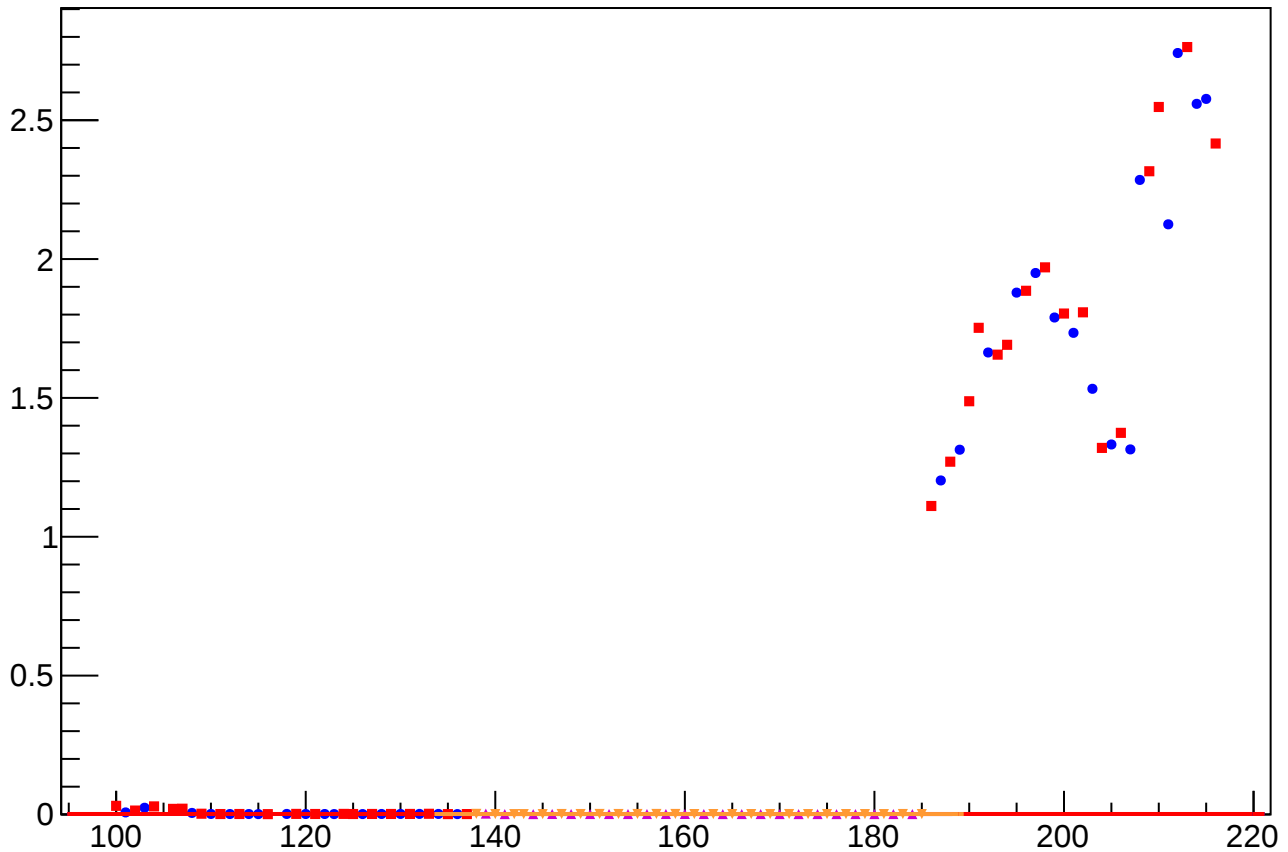
Right: -0.000 ± 0.000 χ^2/NDF : 12855524456.6/66

In: -0.000 ± 0.000 χ^2/NDF : 9910217432.5/54

Out: 0.000 ± 0.000 χ^2/NDF : 3200203979.9/59

All: 0.000 ± 0.000 χ^2/NDF : 13110758377.1/131

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 : 23962466.7/34

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

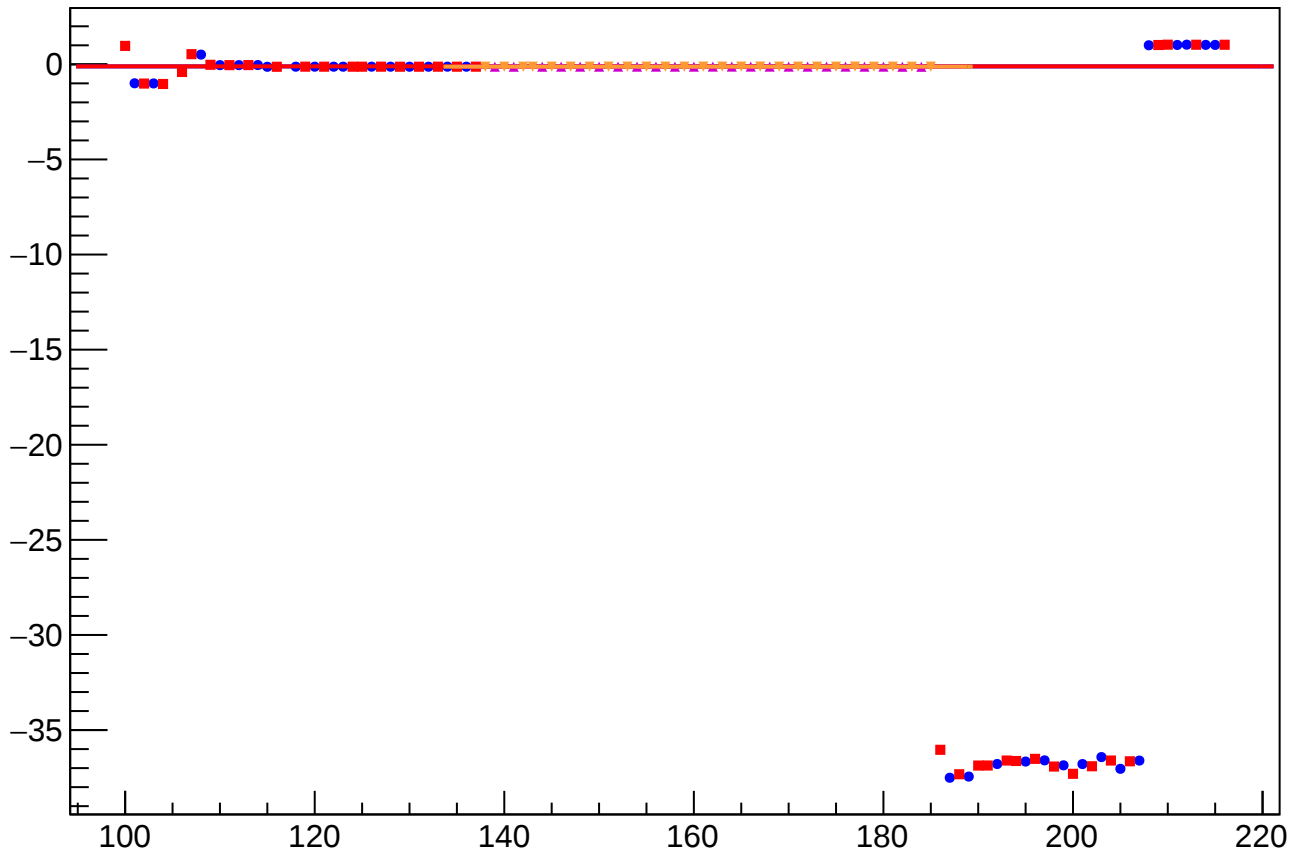
Right: 0.002+/-0.000 χ^2/NDF : 46608455.8/66

In: 0.002+/-0.000 χ^2/NDF :23315968.0/54

Out: 0.002+/-0.000 χ^2/NDF :24642363.7/59

All: 0.002+/-0.000 χ^2/NDF : 47959251.3/114

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: -0.105+/-0.000 χ^2/NDF : 92004931304.4/34

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

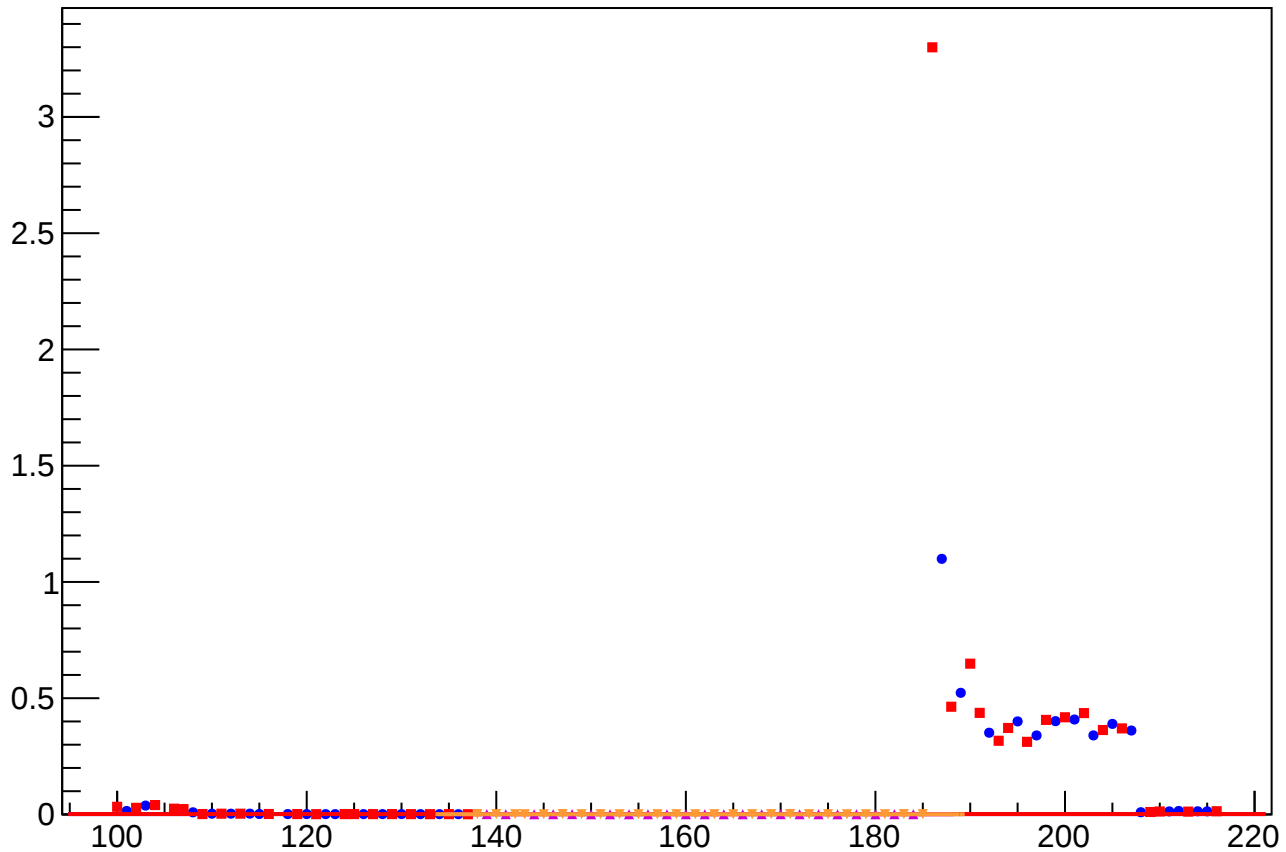
Right: -0.107+/-0.000 χ^2/NDF : 184188576694.4/66

In: -0.120+/-0.000 χ^2/NDF : 92471860477.5/54

Out: -0.120+/-0.000 χ^2/NDF : 92484684124.3/59

All: -0.120+/-0.000 χ^2/NDF : 184956643715.9

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 : 22594834.7/34

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

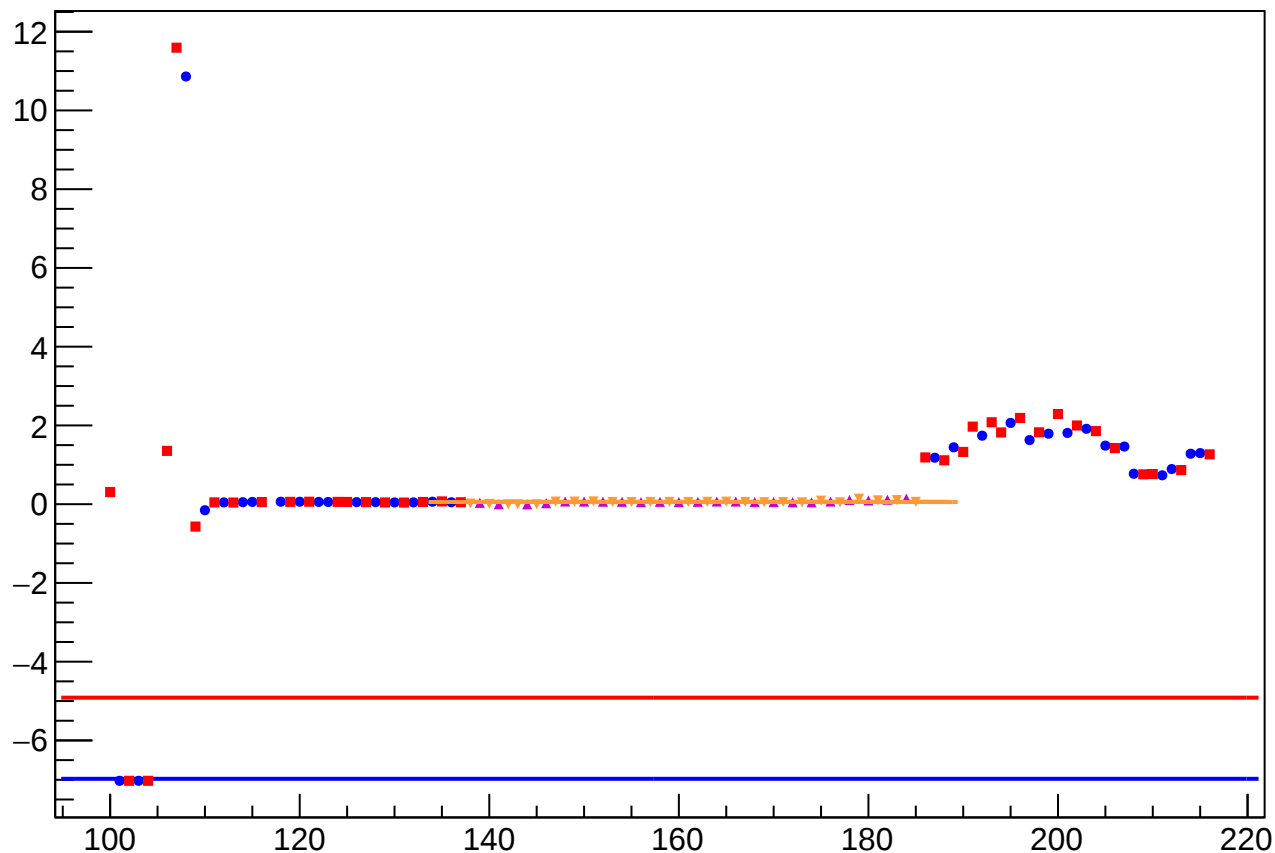
Right: 0.002+/-0.000 χ^2/NDF : 43864390.3/66

In: 0.001+/-0.000 χ^2/NDF :23954570.4/54

Out: 0.001+/-0.000 χ^2/NDF :25594732.7/59

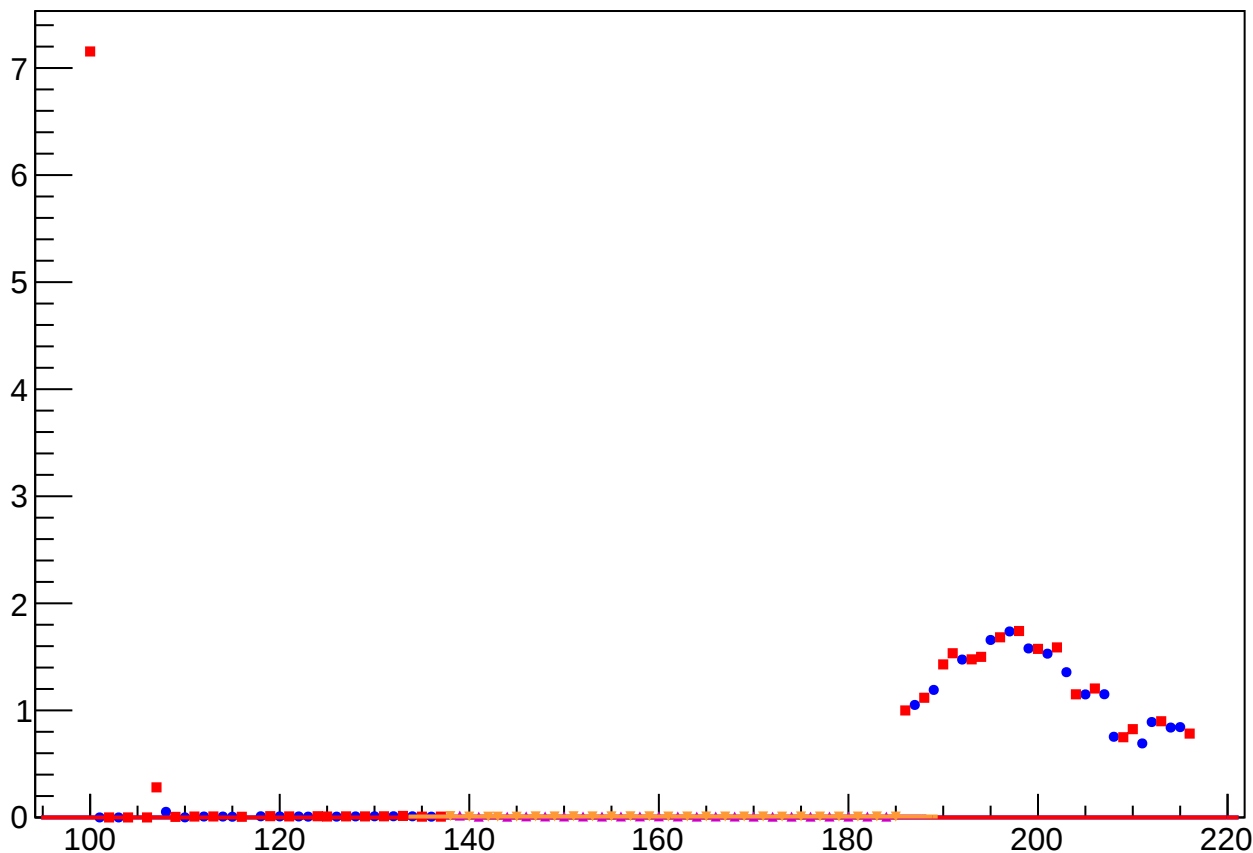
All: 0.001+/-0.000 χ^2/NDF : 49553146.3/114

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797972349608.9/31$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352978802966.4/34$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430334163347506.6$
 In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553485502092.0/54$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165539946903.1/54$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435294474182$

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 : 29749851.2/34

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

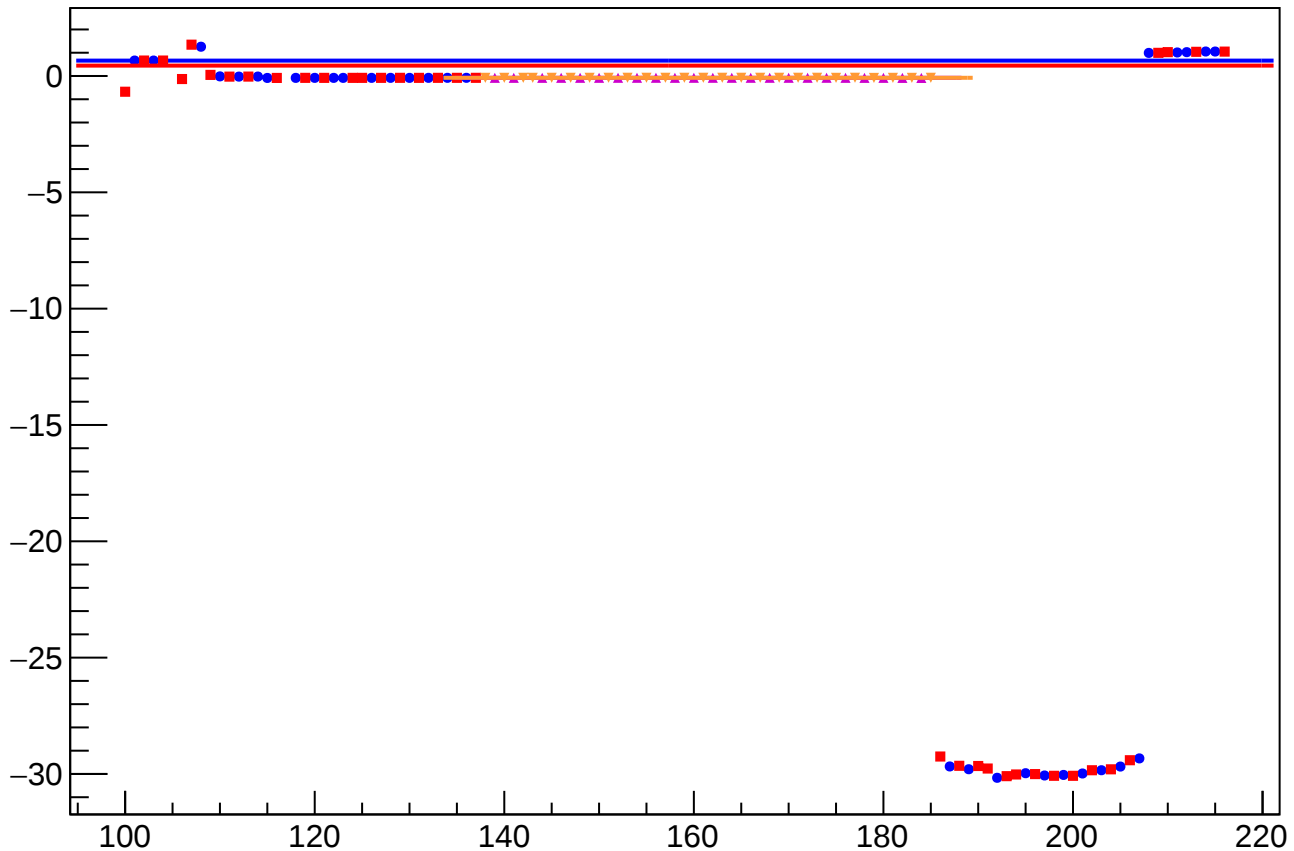
Right: 0.000+/-0.000 χ^2/NDF : 58841244.7/66

In: 0.000+/-0.000 χ^2/NDF :56507760.4/54

Out: 0.000+/-0.000 χ^2/NDF :58692999.6/59

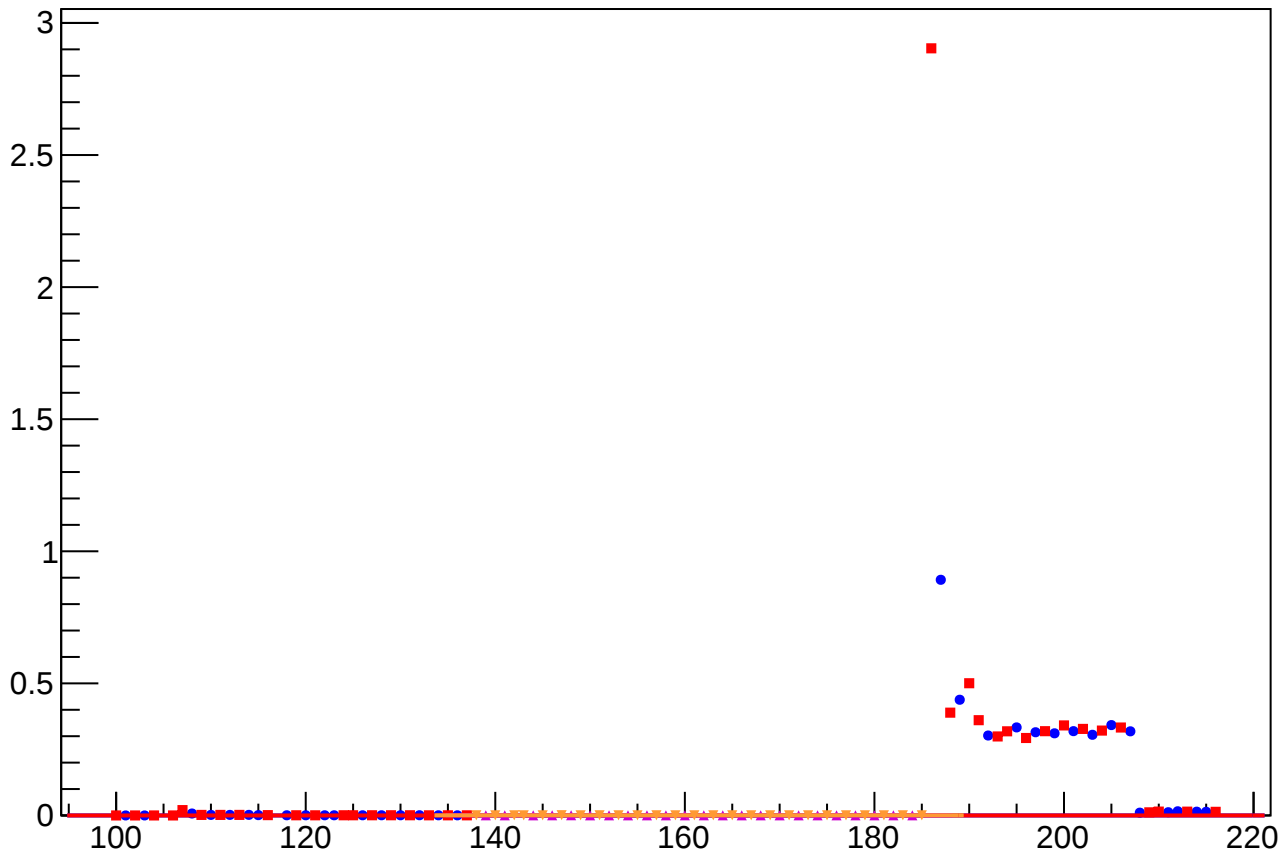
All: 0.000+/-0.000 χ^2/NDF : 115201237.4/114

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 : 474130804755788.6
Right Out: 0.446+/-0.000	χ^2/NDF : 405495479807662.2/34	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 : 420656733640629.2/5
		All: 0.537+/-0.000	χ^2/NDF : 51597559695775

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 : 30308976.2/34

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

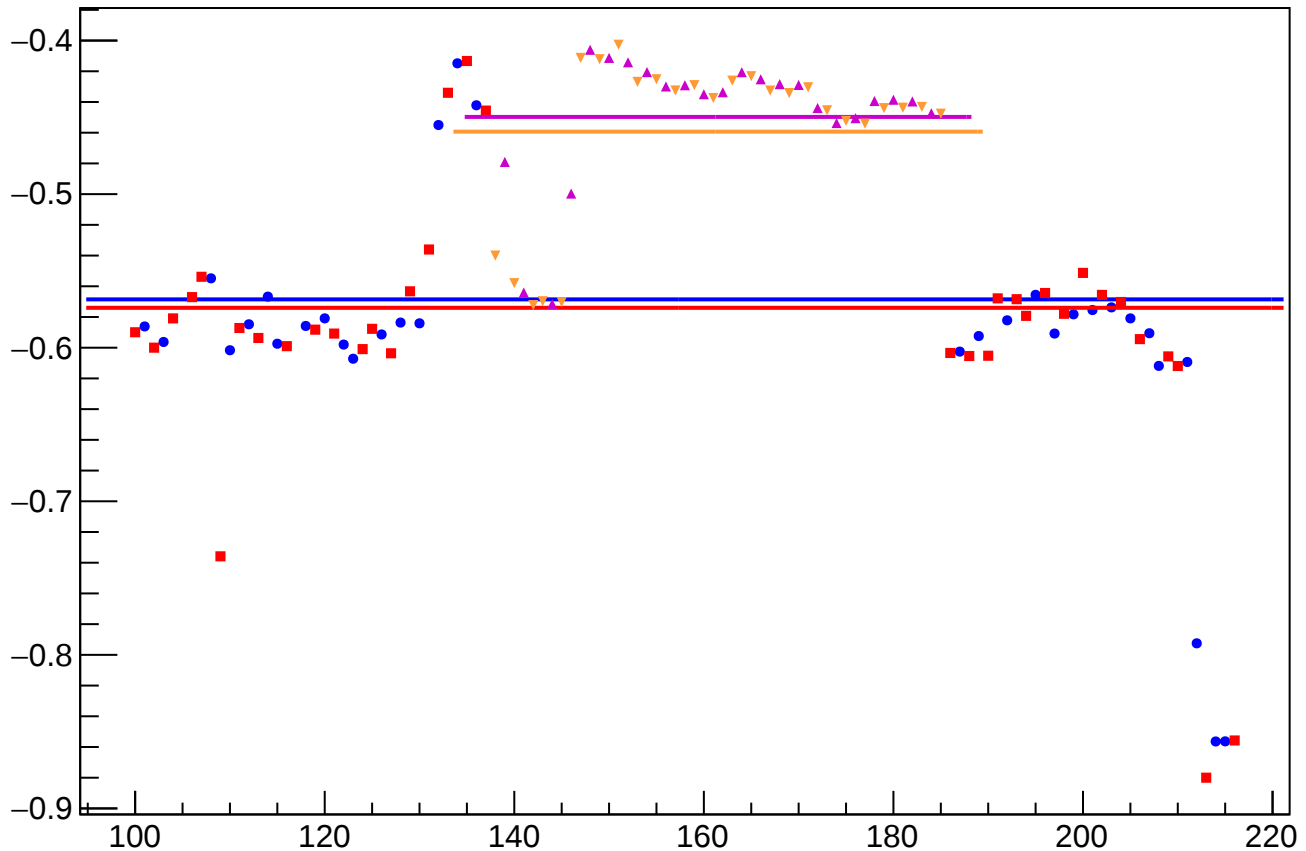
Right: 0.000+/-0.000 χ^2/NDF : 60793531.0/66

In: 0.000+/-0.000 χ^2/NDF : 61205763.1/54

Out: 0.000+/-0.000 χ^2/NDF : 62921703.2/59

All: 0.000+/-0.000 χ^2/NDF : 124127858.1/114

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.569 $\pm$ 0.000 χ^2/NDF : 104938219.8/31

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.574 $\pm$ 0.000 χ^2/NDF : 109527548.8/34

Left In: -0.450 $\pm$ 0.000 χ^2/NDF : 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2/NDF : 191493218.8/47

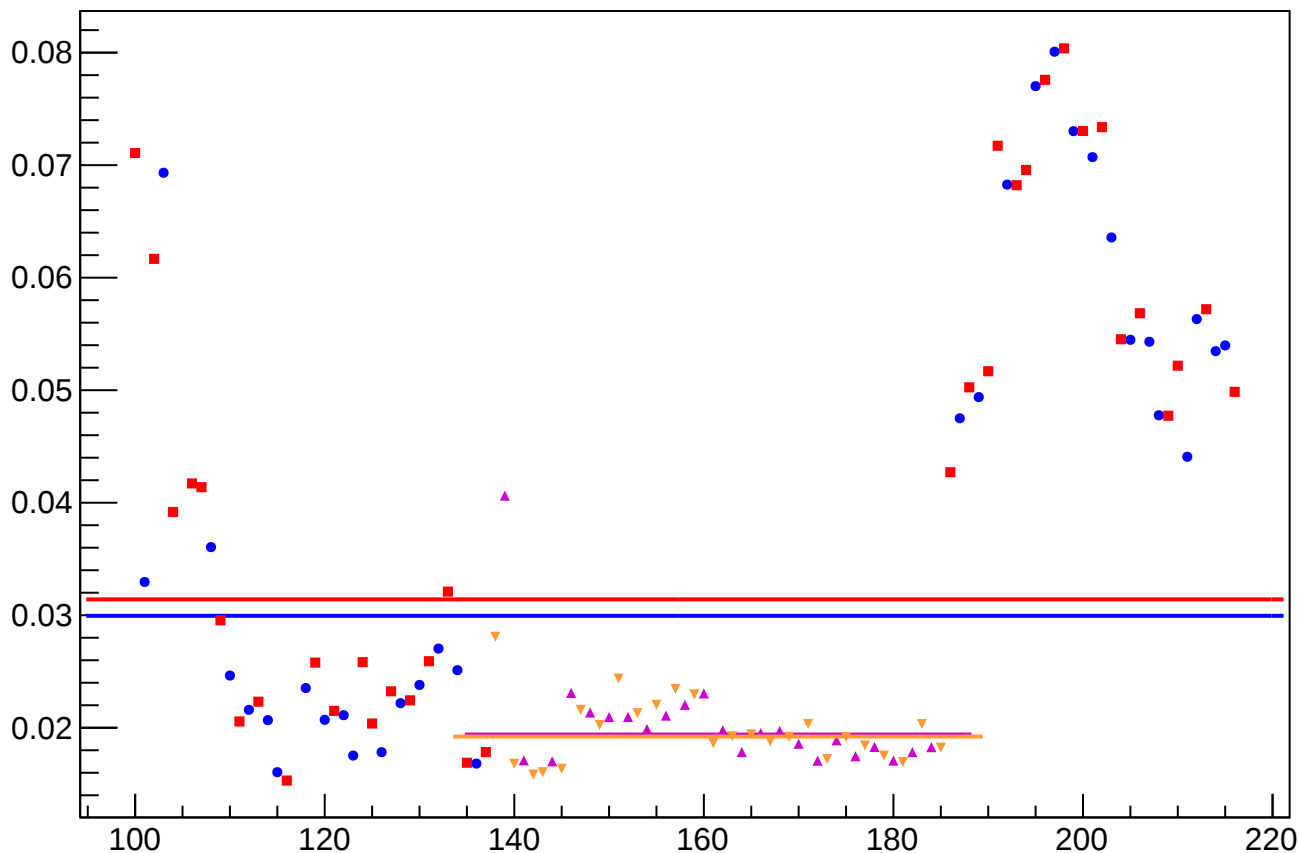
Right: -0.571 $\pm$ 0.000 χ^2/NDF : 214664991.7/66

In: -0.482 $\pm$ 0.000 χ^2/NDF : 321479090.1/54

Out: -0.487 $\pm$ 0.000 χ^2/NDF : 351431235.0/59

All: -0.484 $\pm$ 0.000 χ^2/NDF : 673714639.3/11

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: 7354931.8/34

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

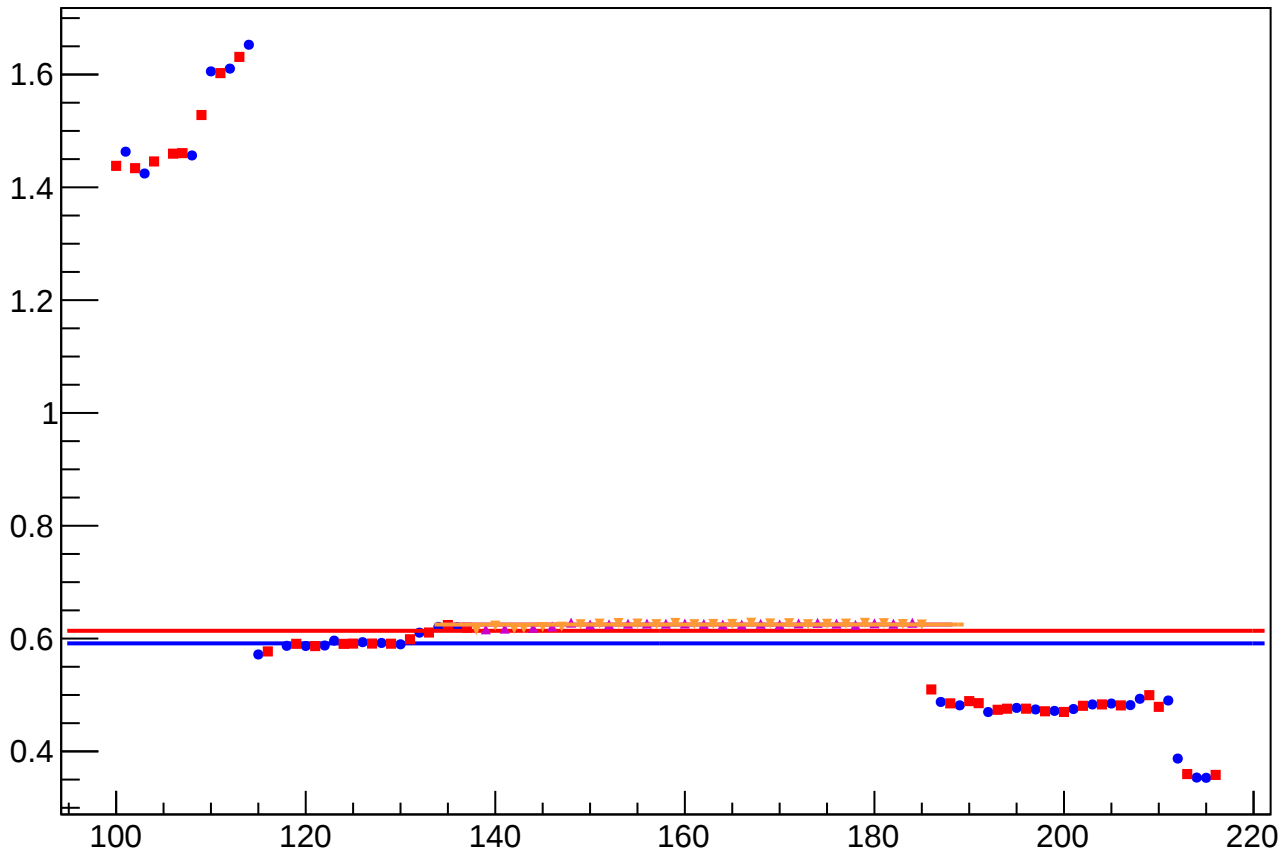
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 14904395.4/66

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10364667.1/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:10754771.1/59

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 21119549.0/114

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: 0.614+/-0.000 χ^2/NDF : 6465461038.8/34

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

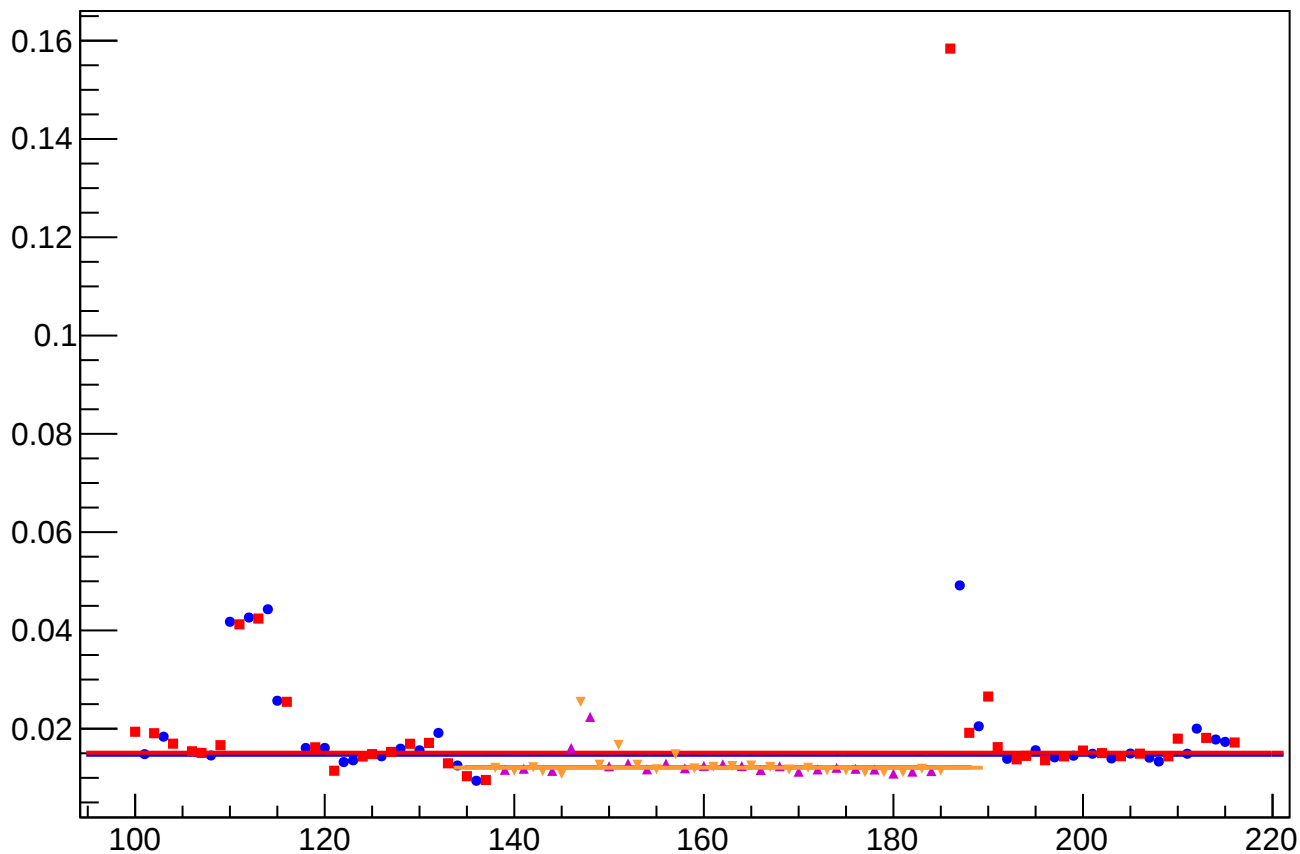
Right: 0.602+/-0.000 χ^2/NDF : 11972776168.1/66

In: 0.612+/-0.000 χ^2/NDF :5540006728.2/54

Out: 0.621+/-0.000 χ^2/NDF :6472395008.7/59

All: 0.616+/-0.000 χ^2/NDF : 12020104904.3/122

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: 2181773.8/34

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

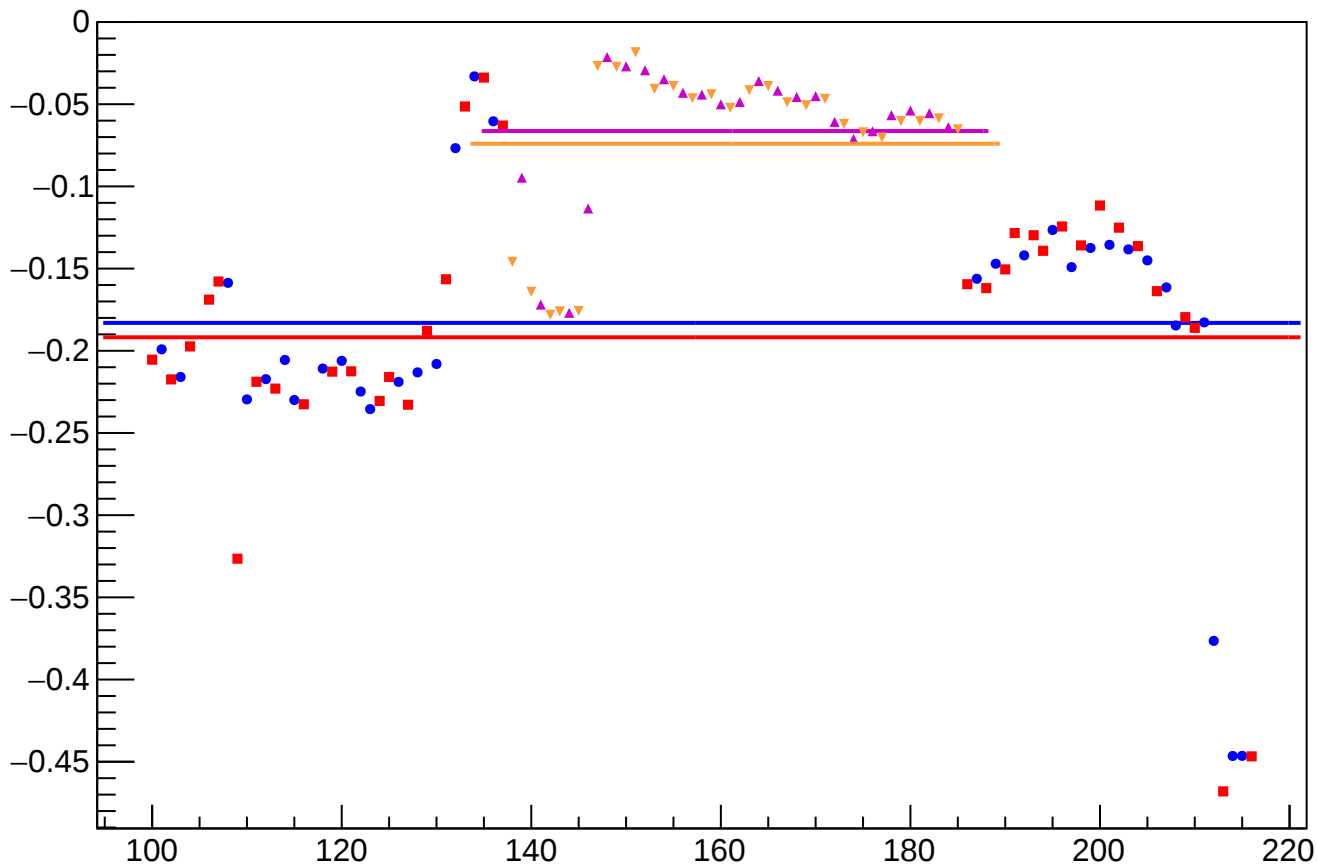
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4037242.6/66

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2911741.5/54

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3661494.0/59

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6573683.1/114

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: -0.192 ± 0.000 $\chi^2/\text{NDF}: 126260568.8/34$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76243051.8/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185076997.5/47$

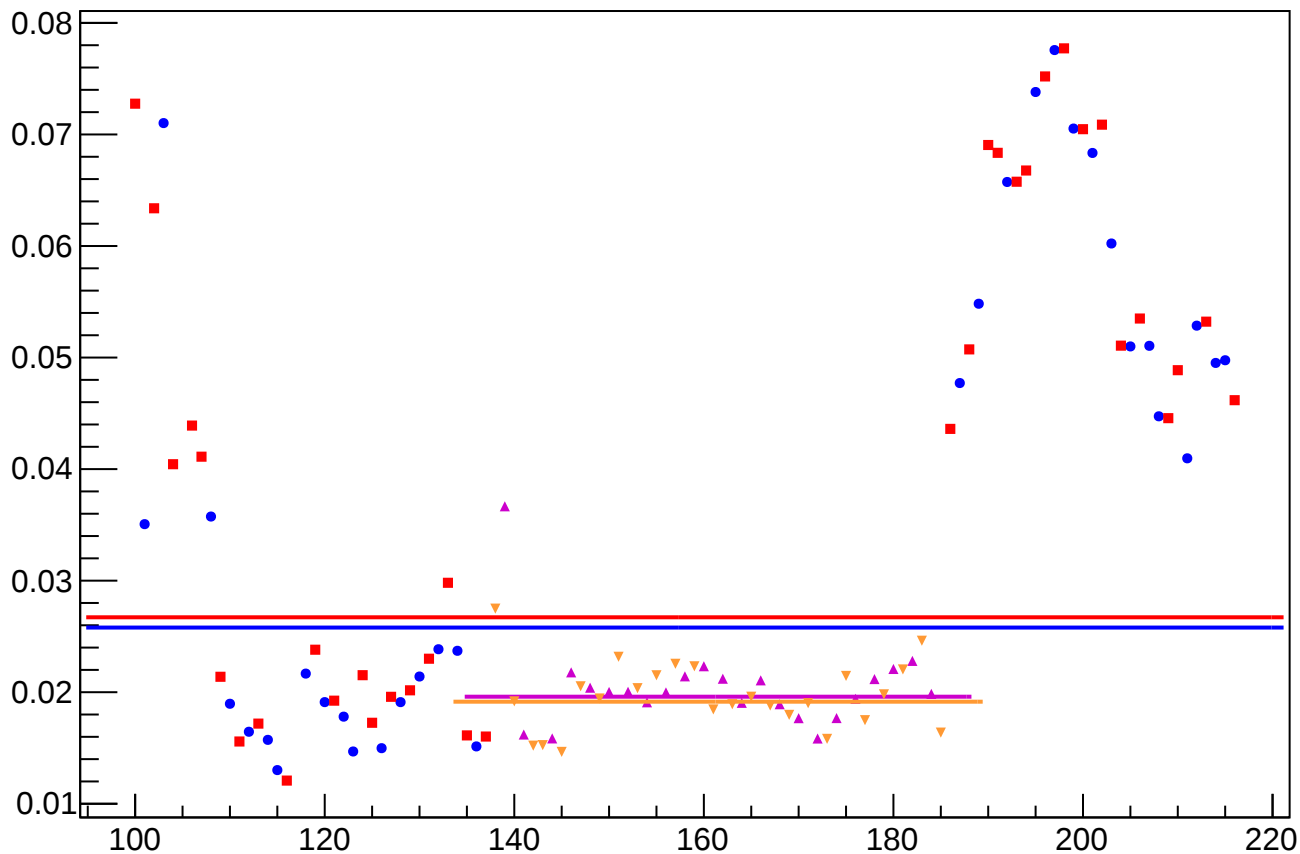
Right: -0.187 ± 0.000 $\chi^2/\text{NDF}: 246650277.8/66$

In: -0.104 ± 0.000 $\chi^2/\text{NDF}: 357300141.3/54$

Out: -0.108 ± 0.000 $\chi^2/\text{NDF}: 398457404.2/59$

All: -0.106 ± 0.000 $\chi^2/\text{NDF}: 756311240.5/111$

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: 0.027 $\pm$ 0.000 χ^2 /NDF: 8991106.1/34

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

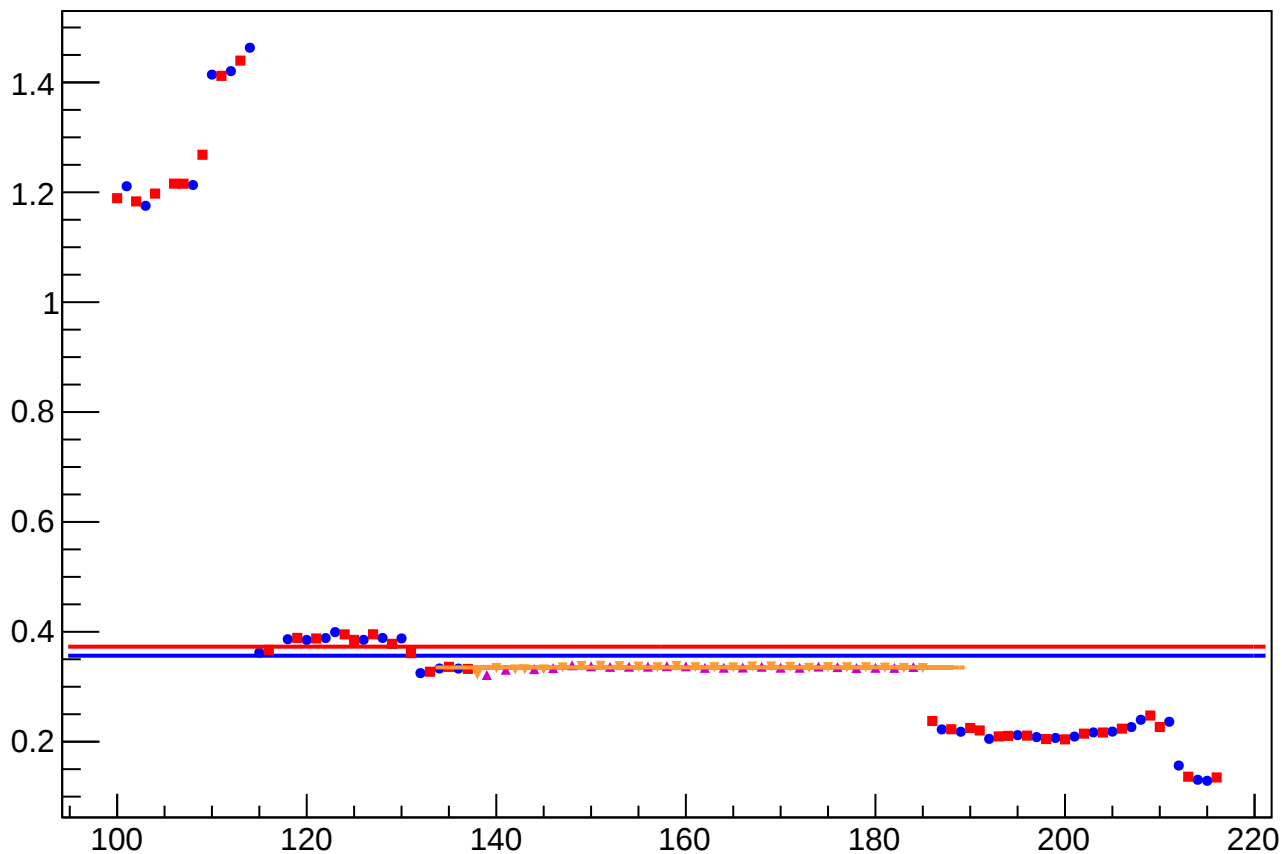
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 17806238.0/66

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10333802.6/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:10990366.2/59

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 21327462.6/114

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.356 $\pm$ 0.000 χ^2/NDF : 7928563019.6/31

Left Out: 0.335 $\pm$ 0.000 χ^2/NDF : 1154310.3/24

Right Out: 0.373 $\pm$ 0.000 χ^2/NDF : 8954720380.8/34

Left In: 0.335 $\pm$ 0.000 χ^2/NDF : 1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2/NDF : 2356931.1/47

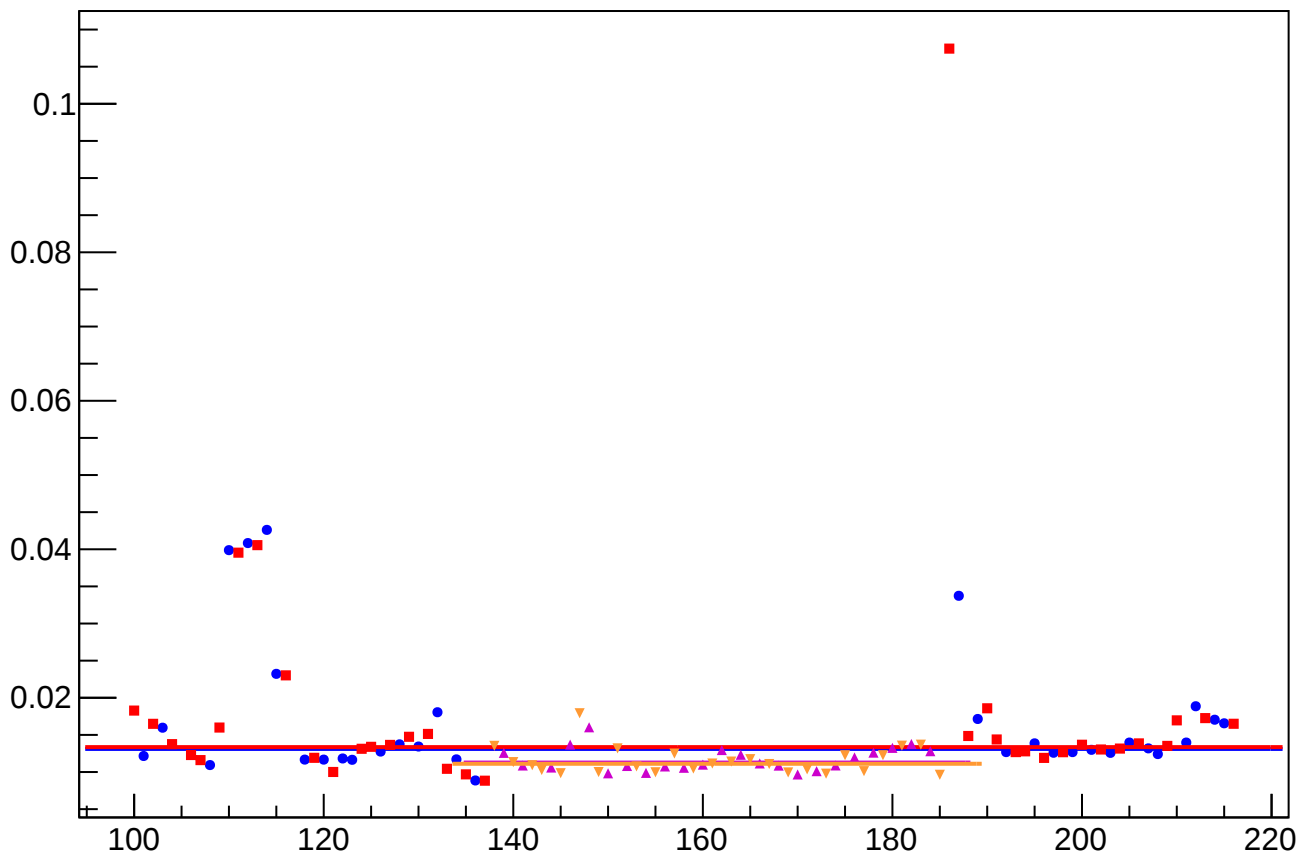
Right: 0.365 $\pm$ 0.000 χ^2/NDF : 16895494951.9/66

In: 0.344 $\pm$ 0.000 χ^2/NDF : 7954480559.3/54

Out: 0.350 $\pm$ 0.000 χ^2/NDF : 9034199983.4/59

All: 0.347 $\pm$ 0.000 χ^2/NDF : 16992526481.8/1

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 : 2141541.3/34

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

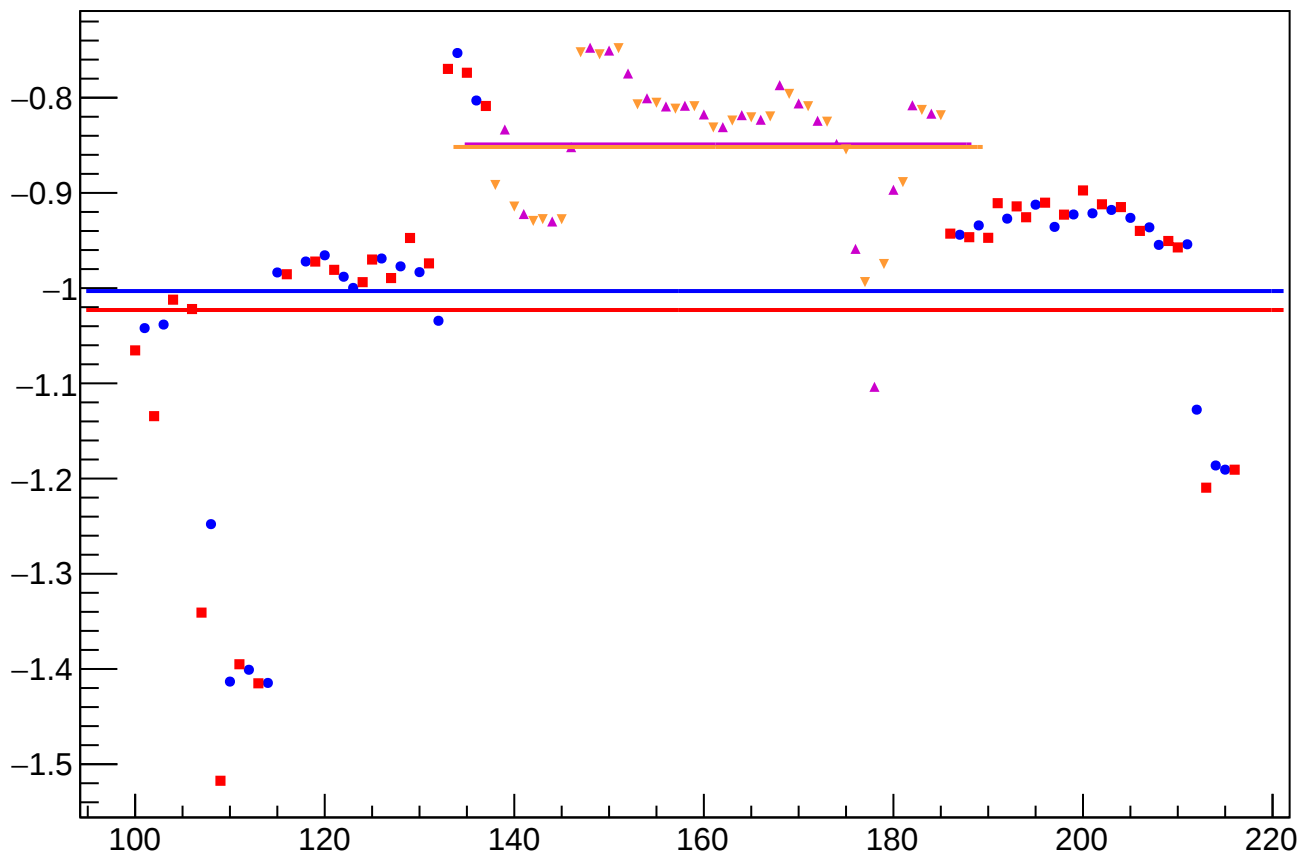
Right: 0.013+/-0.000 χ^2/NDF : 3973969.9/66

In: 0.012+/-0.000 χ^2/NDF : 2692055.6/54

Out: 0.012+/-0.000 χ^2/NDF : 3297962.7/59

All: 0.012+/-0.000 χ^2/NDF : 5990668.3/114

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: -1.023 ± 0.000 $\chi^2/\text{NDF}: 576316587.0/34$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

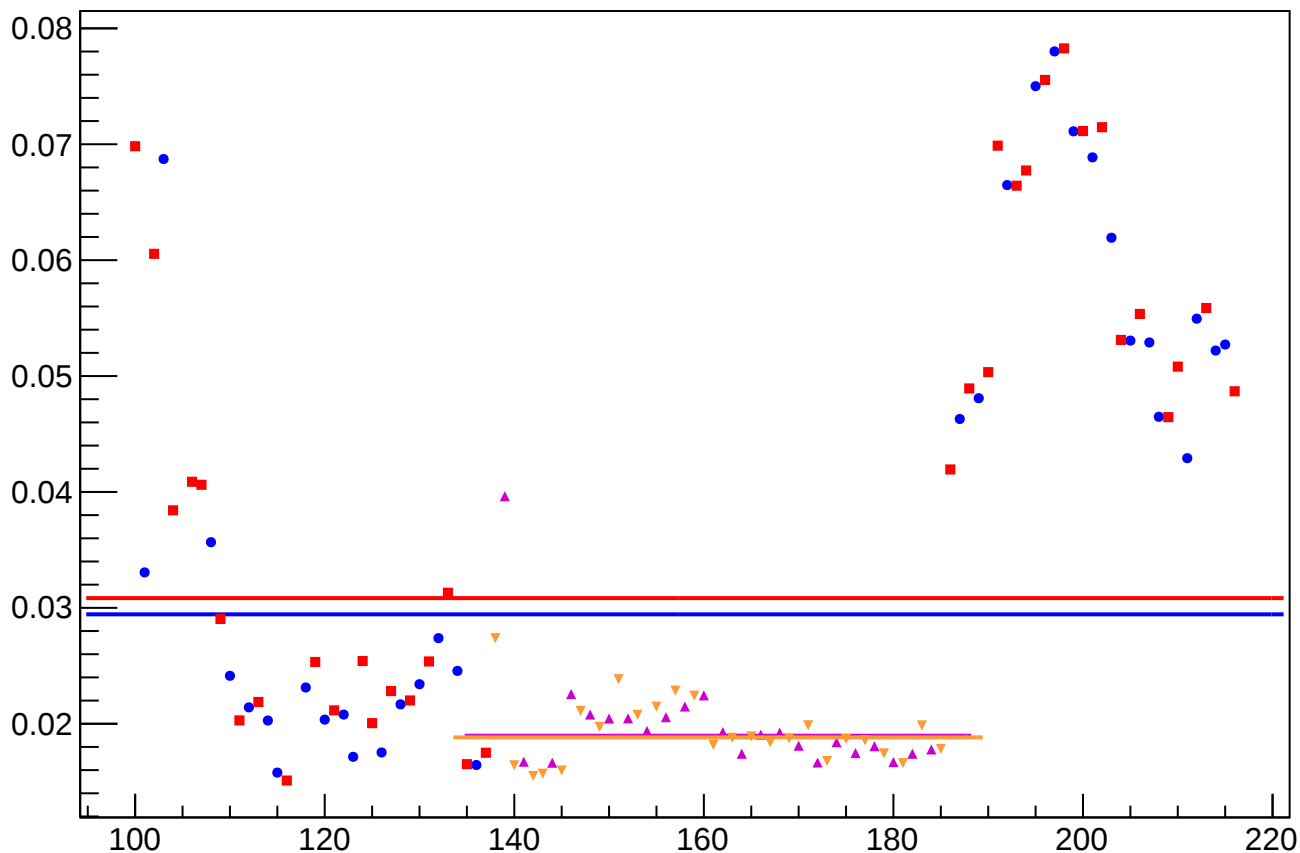
Right: -1.013 ± 0.000 $\chi^2/\text{NDF}: 1006096322.7/66$

In: -0.890 ± 0.000 $\chi^2/\text{NDF}: 928750987.8/54$

Out: -0.893 ± 0.000 $\chi^2/\text{NDF}: 1062774273.5/59$

All: -0.892 ± 0.000 $\chi^2/\text{NDF}: 1991783861.4/111$

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: 0.031 $\pm$ 0.000 χ^2 /NDF: 7273378.2/34

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

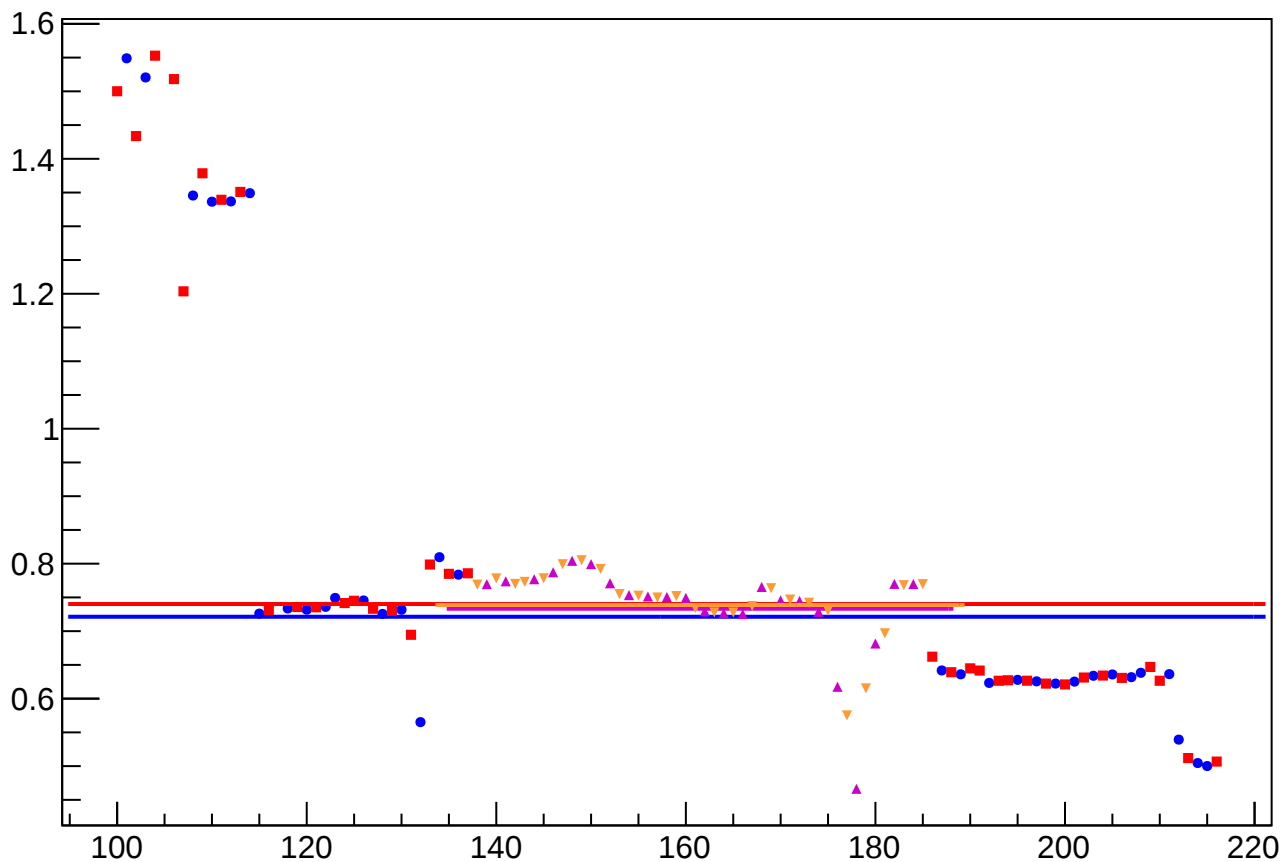
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14757231.7/66

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10342345.7/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:10693761.2/59

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 21036138.8/114

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: 0.740+/-0.000 χ^2/NDF : 4089468161.3/34

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 904456968.5/47

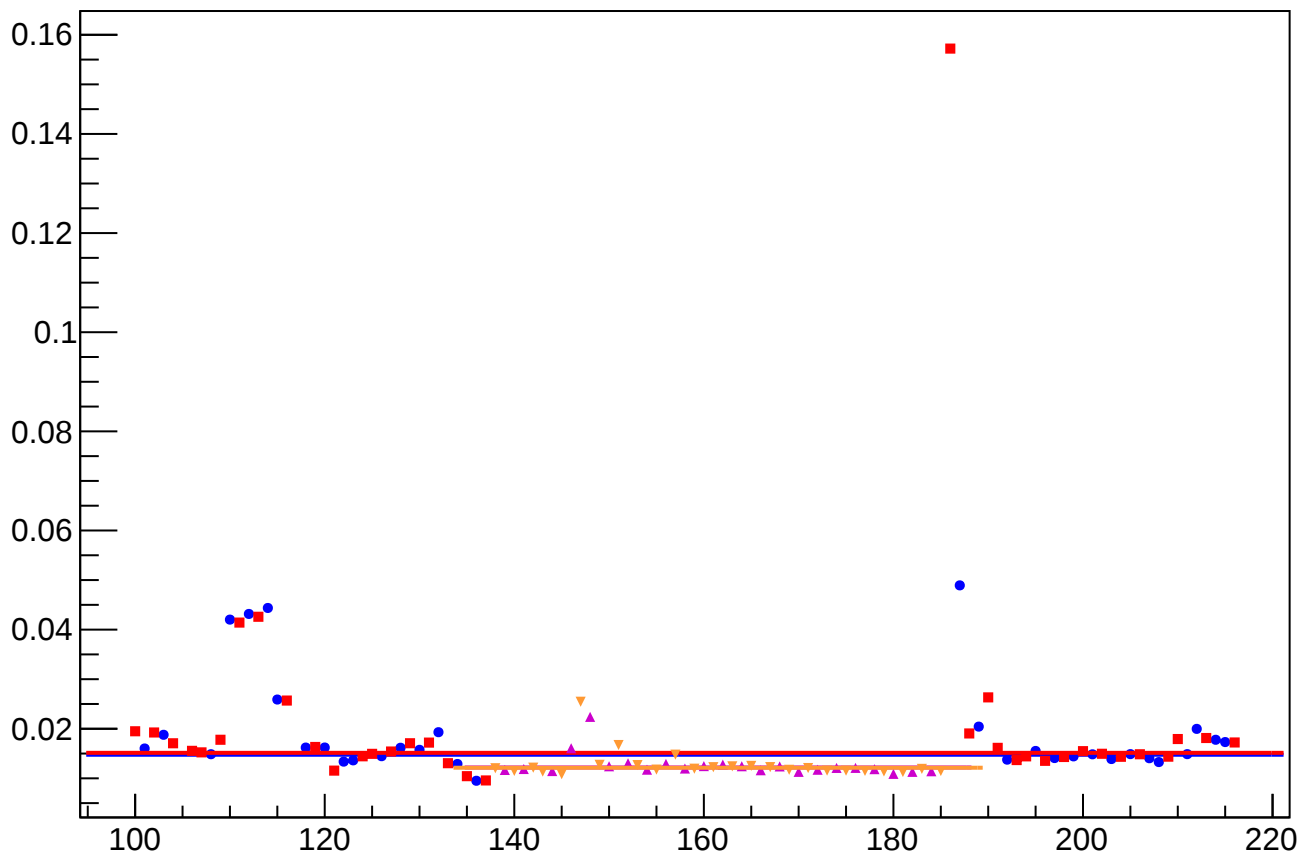
Right: 0.731+/-0.000 χ^2/NDF : 7924662301.4/66

In: 0.729+/-0.000 χ^2/NDF : 4398407935.0/54

Out: 0.739+/-0.000 χ^2/NDF : 4422563352.6/59

All: 0.734+/-0.000 χ^2/NDF : 8831783911.6/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1836951.7/31

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2183882.7/34

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

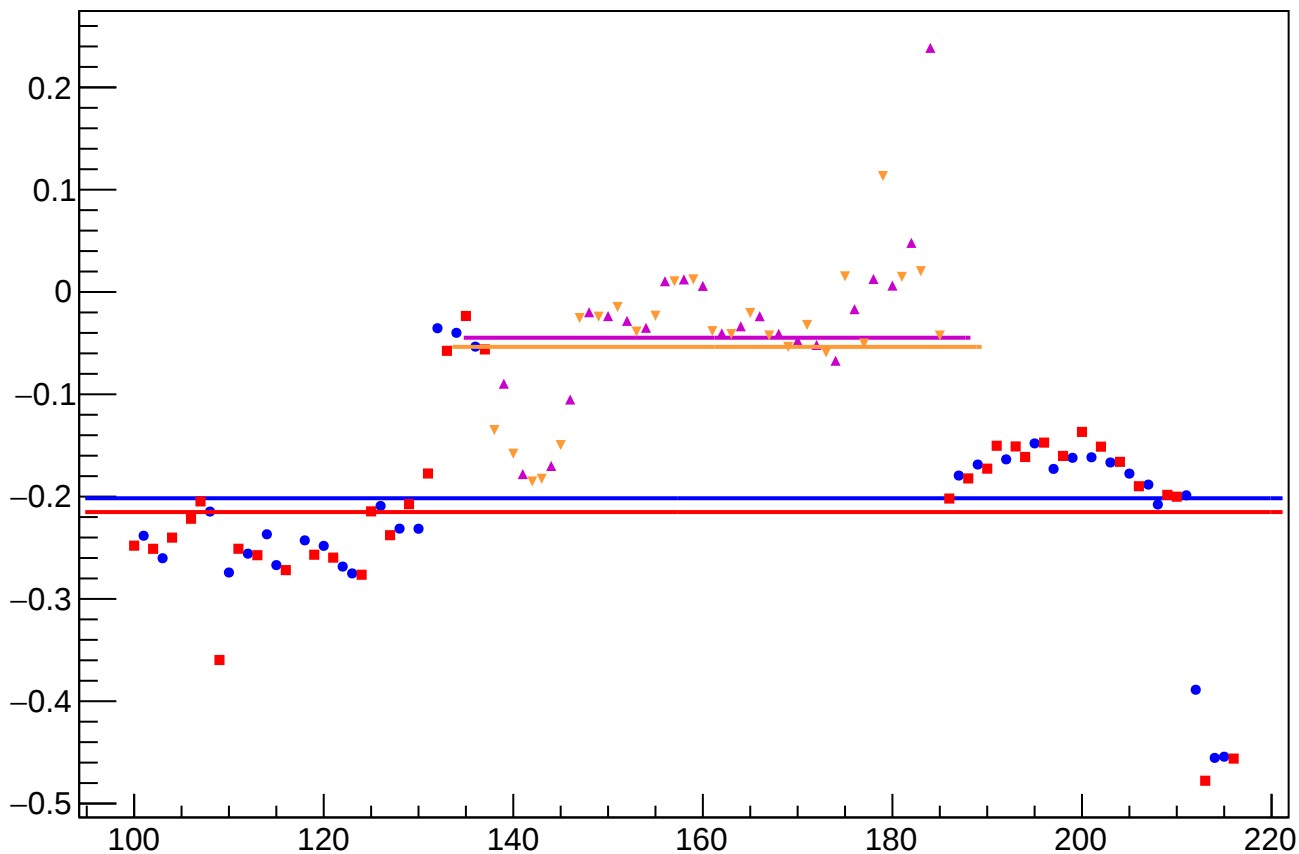
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4031355.6/66

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2896763.2/54

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3614755.6/59

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6511983.5/114

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: -0.215 ± 0.000 $\chi^2/\text{NDF}: 149587368.3/34$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

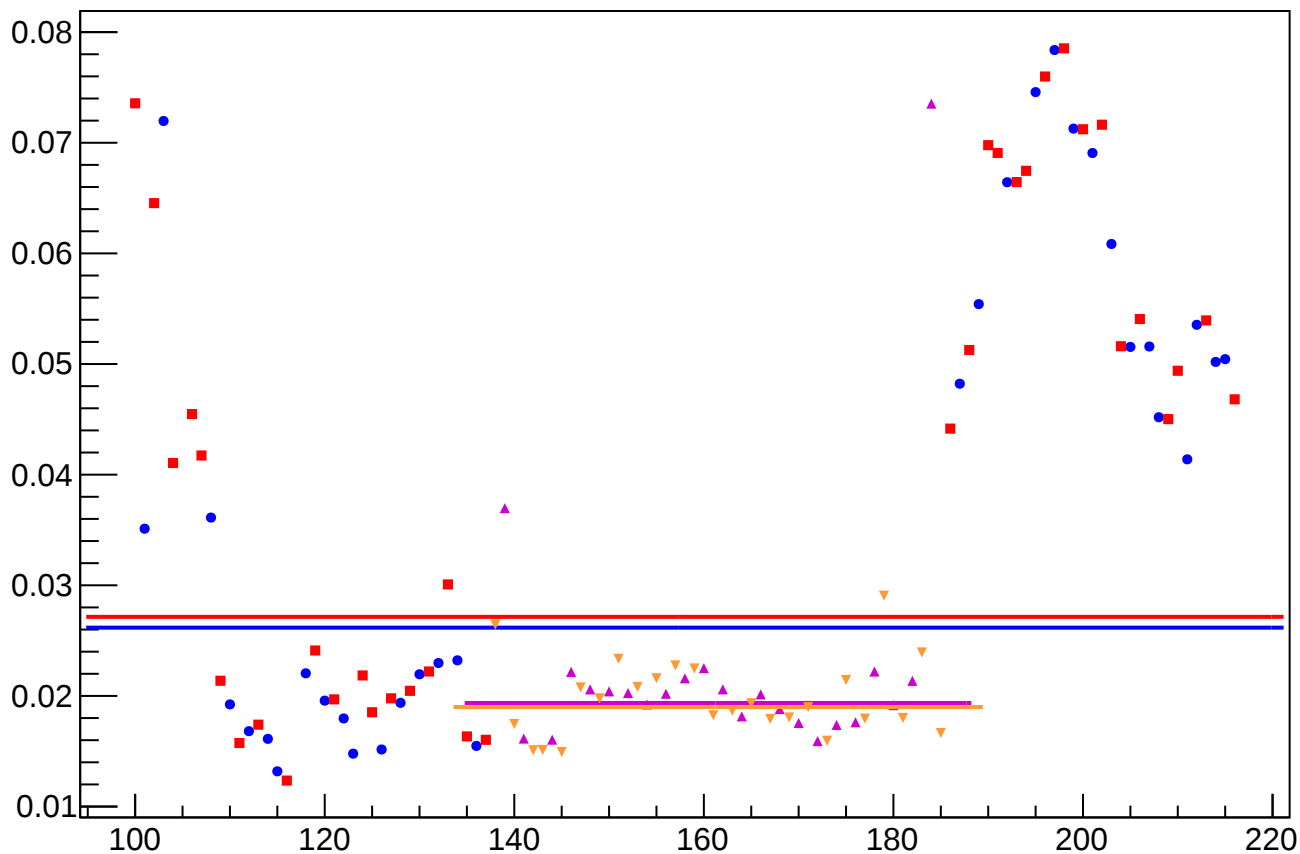
Right: -0.208 ± 0.000 $\chi^2/\text{NDF}: 304620704.4/66$

In: -0.094 ± 0.000 $\chi^2/\text{NDF}: 566477280.8/54$

Out: -0.100 ± 0.000 $\chi^2/\text{NDF}: 618552190.9/59$

All: -0.097 ± 0.000 $\chi^2/\text{NDF}: 1185926149.3/1$

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: 8932731.7/34

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

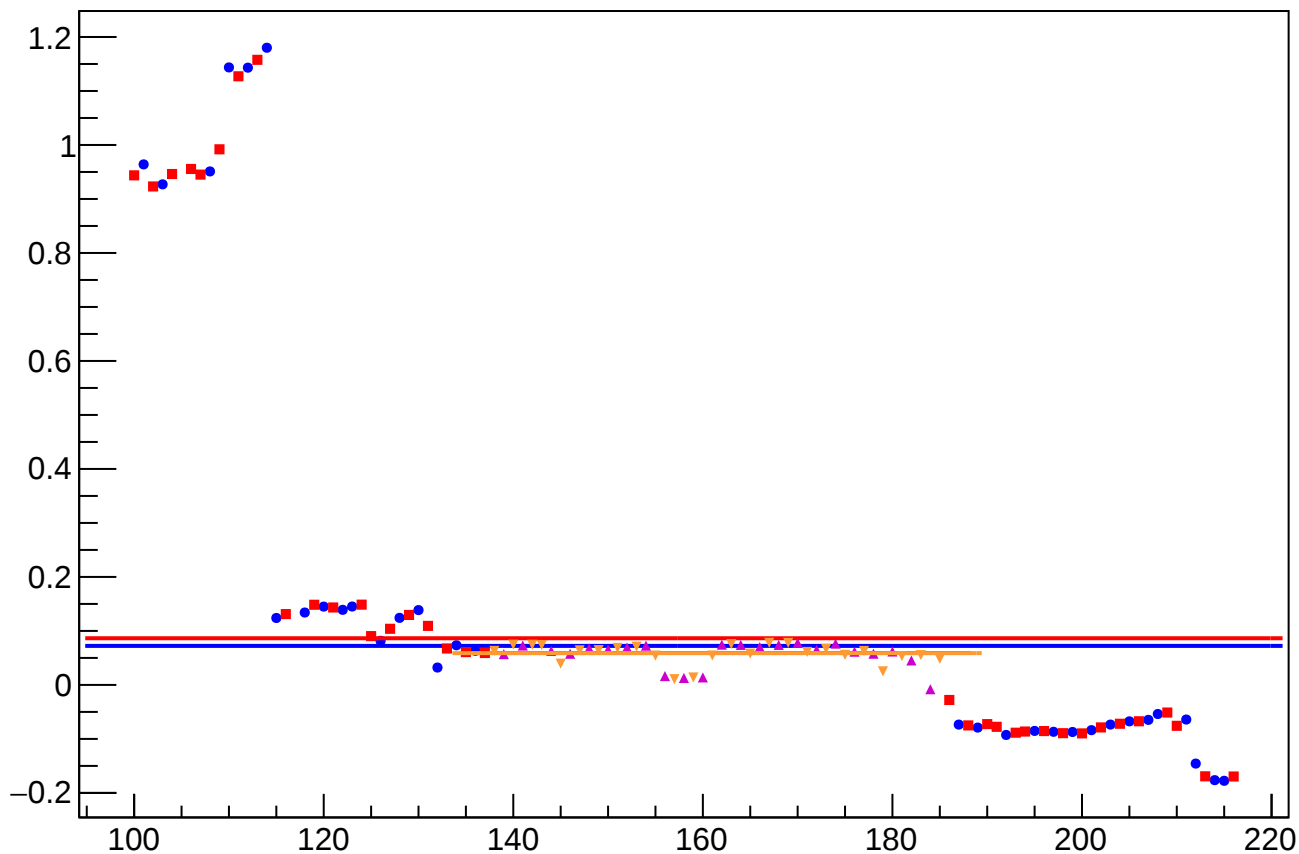
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 17685684.2/66

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10671345.9/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:11168608.8/59

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 21841773.1/114

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.072 $\pm$ 0.000 χ^2 /NDF: 8645146701.0/31

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.086 $\pm$ 0.000 χ^2 /NDF: 9507290125.3/34

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

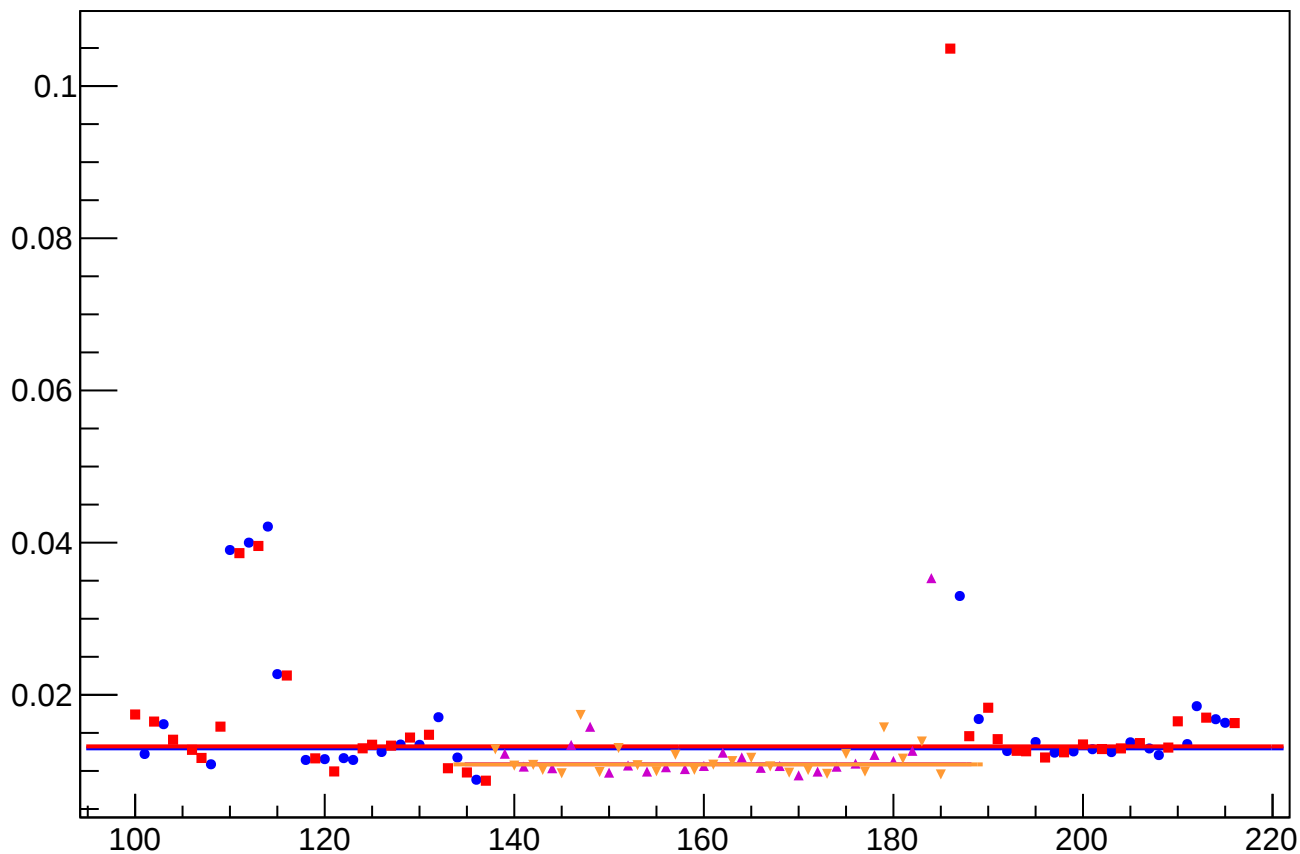
Right: 0.079 $\pm$ 0.000 χ^2 /NDF: 18161631119.0/66

In: 0.064 $\pm$ 0.000 χ^2 /NDF: 8713320124.8/54

Out: 0.070 $\pm$ 0.000 χ^2 /NDF: 9596468665.6/59

All: 0.067 $\pm$ 0.000 χ^2 /NDF: 18312748999.6/122

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1779661.1/31

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2081982.1/34

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

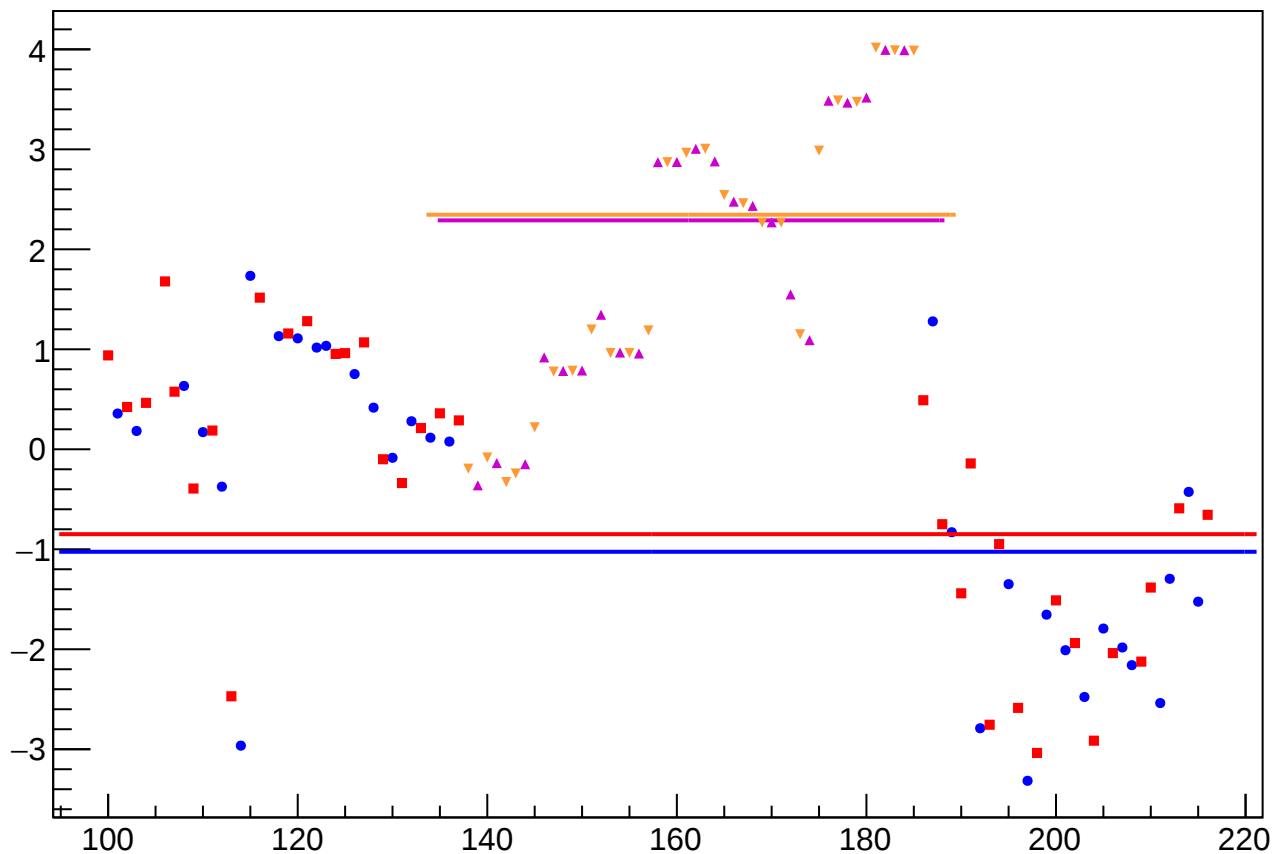
Right: 0.013+/-0.000 χ^2/NDF : 3867726.0/66

In: 0.012+/-0.000 χ^2/NDF : 2788126.4/54

Out: 0.012+/-0.000 χ^2/NDF : 3310562.9/59

All: 0.012+/-0.000 χ^2/NDF : 6099030.8/114

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: -0.849+/-0.000 χ^2/NDF : 8191767096.4/34

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

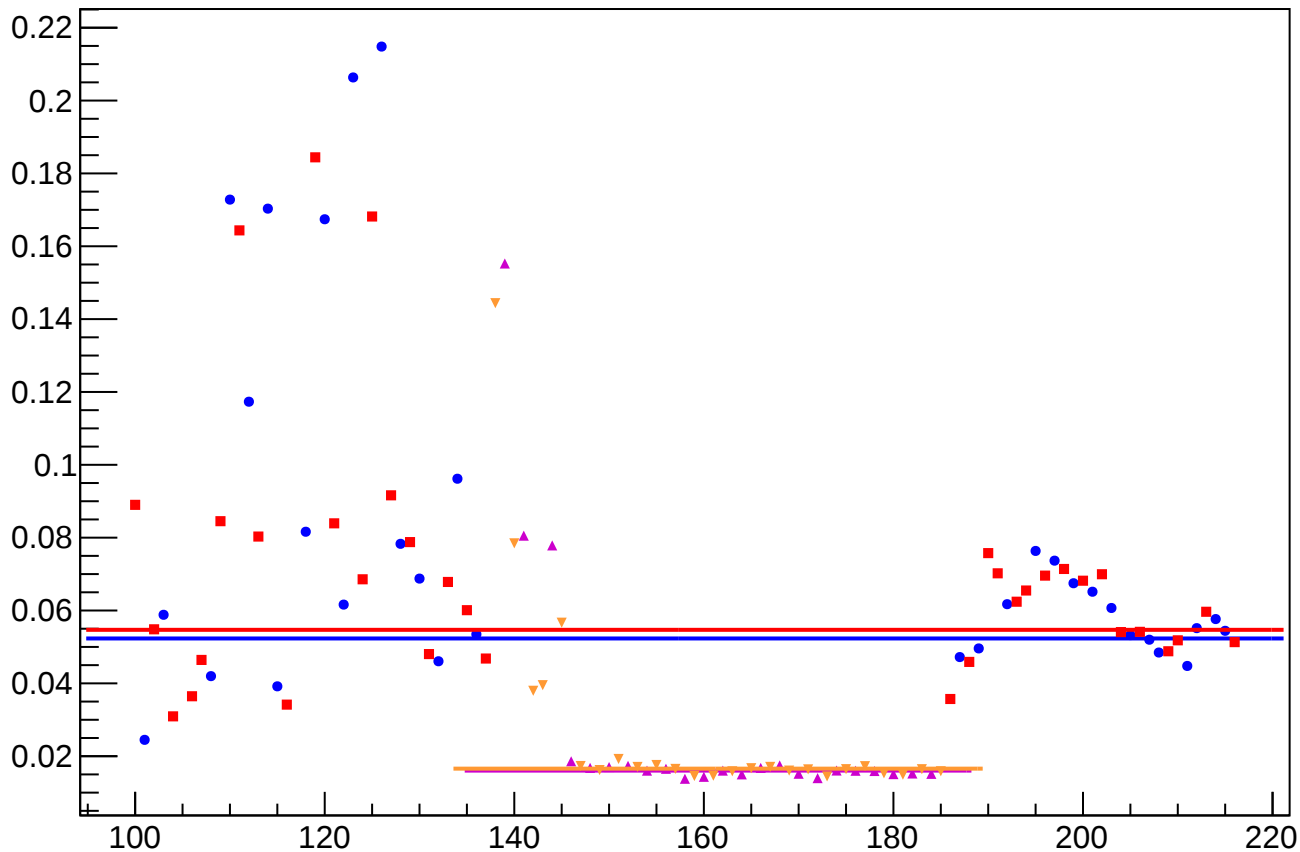
Right: -0.939+/-0.000 χ^2/NDF : 16081805048.6/66

In: 2.005+/-0.000 χ^2/NDF : 117512834662.5/54

Out: 2.077+/-0.000 χ^2/NDF : 115451445871.5/59

All: 2.041+/-0.000 χ^2/NDF : 233108192854.7

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: 2878935.4/34

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

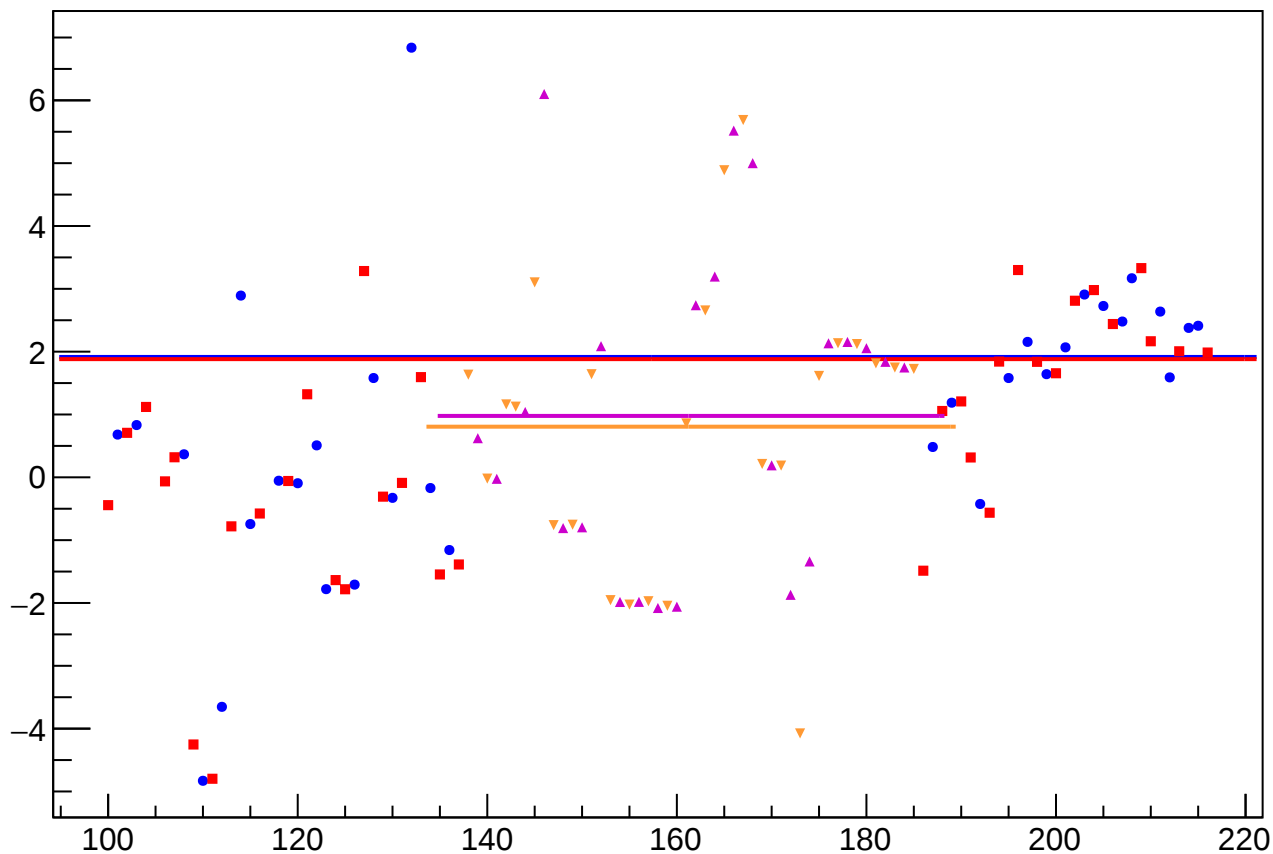
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6472803.8/66

In: 0.019 $\pm$ 0.000 χ^2 /NDF:17656603.2/54

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:17959293.5/59

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 35638709.2/114

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.916 $\pm$ 0.000 χ^2 /NDF: 39479113551.2/31

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF: 507578952196.2/24

Right Out: 1.881 $\pm$ 0.000 χ^2 /NDF: 39626849885.5/34

Left In: 0.977 $\pm$ 0.000 χ^2 /NDF: 568209676597.4/22

Left: 0.892 $\pm$ 0.000 χ^2 /NDF: 1077036497291.8/47

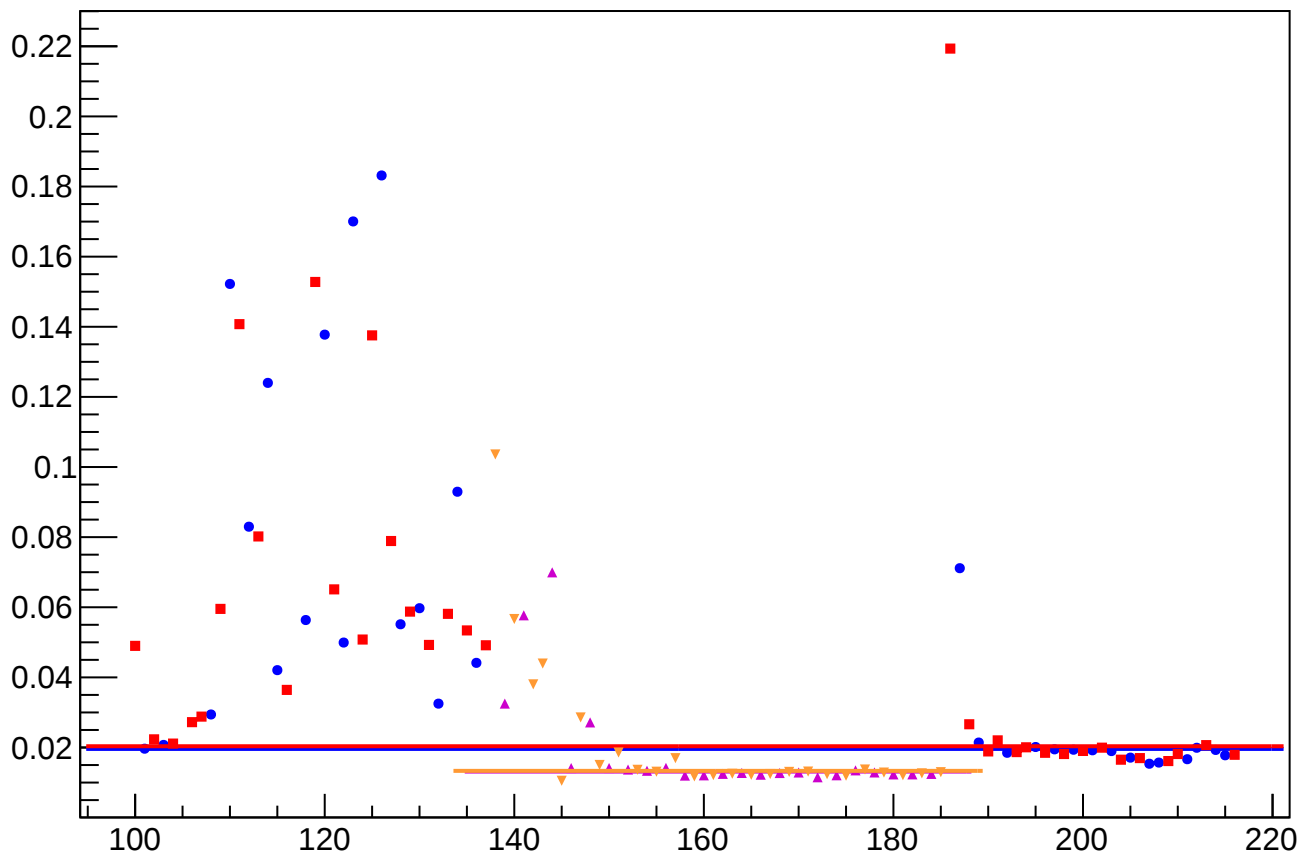
Right: 1.899 $\pm$ 0.000 χ^2 /NDF: 79124267888.6/66

In: 1.230 $\pm$ 0.000 χ^2 /NDF: 627867325965.6/54

Out: 1.084 $\pm$ 0.000 χ^2 /NDF: 572530032112.0/59

All: 1.158 $\pm$ 0.000 χ^2 /NDF: 1201636835930.

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: 0.020+/-0.000 χ^2/NDF : 5189930.7/34

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

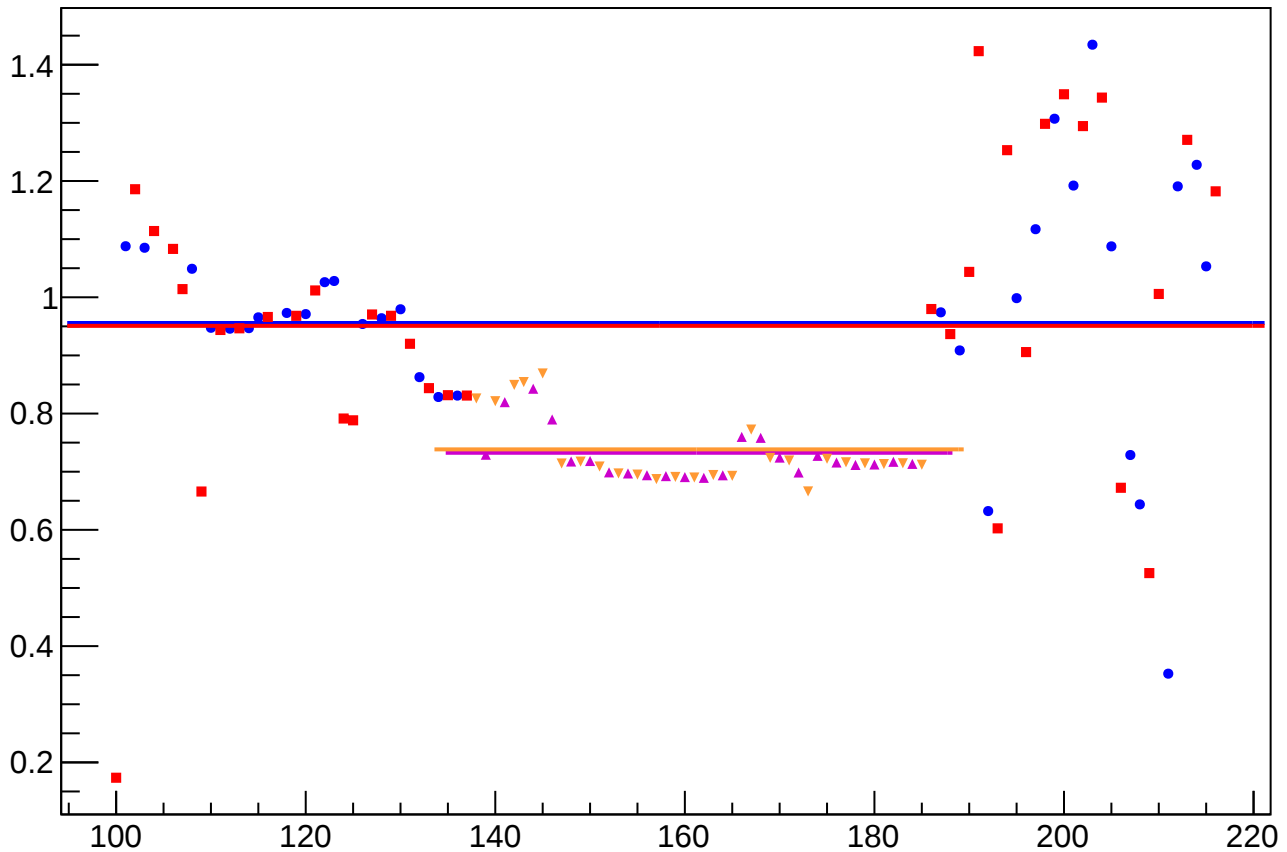
Right: 0.020+/-0.000 χ^2/NDF : 9417277.5/66

In: 0.015+/-0.000 χ^2/NDF :8069376.8/54

Out: 0.015+/-0.000 χ^2/NDF :10179460.4/59

All: 0.015+/-0.000 χ^2/NDF : 18257505.6/114

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: 0.951+/-0.000 χ^2/NDF : 1237824845.2/34

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

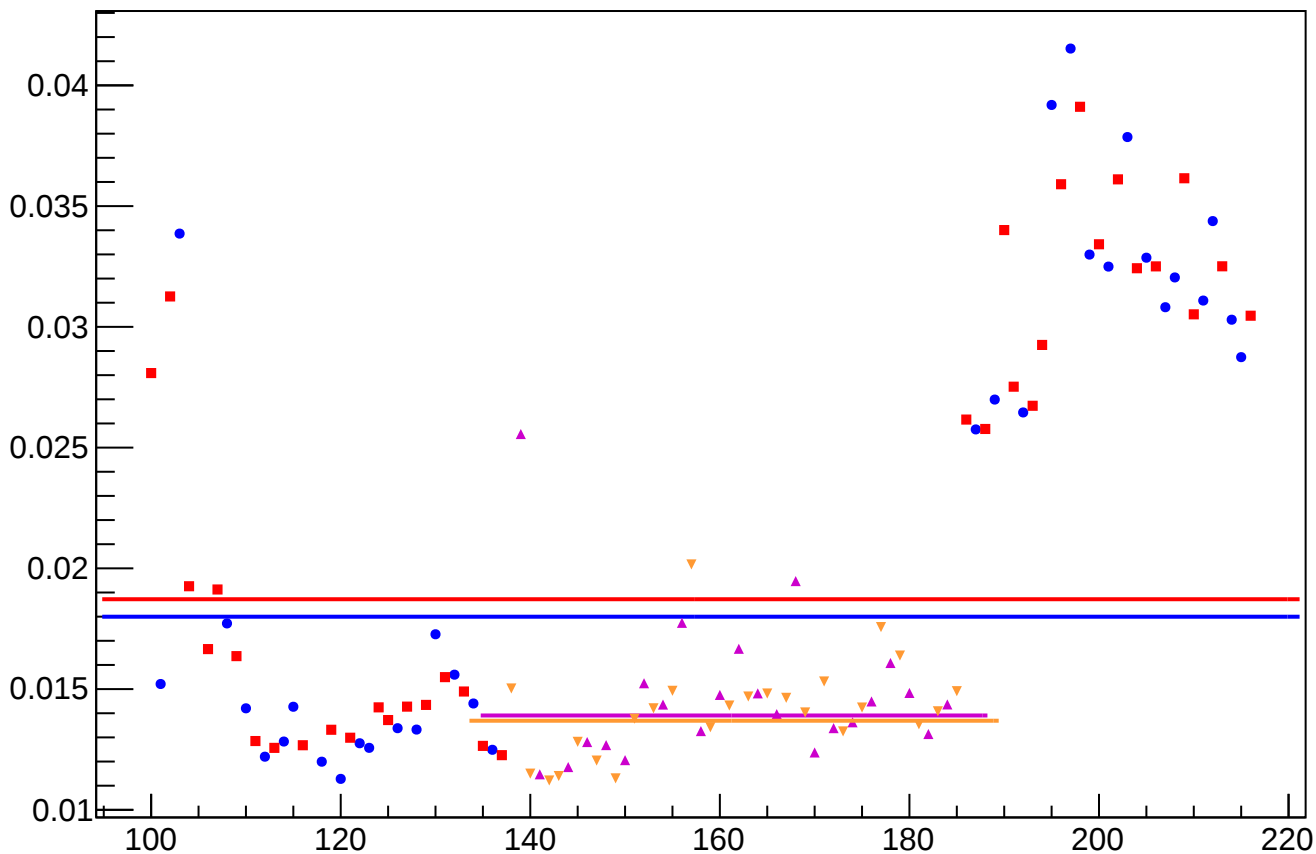
Right: 0.953+/-0.000 χ^2/NDF : 2215018780.8/66

In: 0.808+/-0.000 χ^2/NDF : 2486058718.6/54

Out: 0.805+/-0.000 χ^2/NDF : 2772627906.1/59

All: 0.806+/-0.000 χ^2/NDF : 5259085146.7/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 5583793.7/31

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:528480.6/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 4977726.0/34

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1300553.4/47

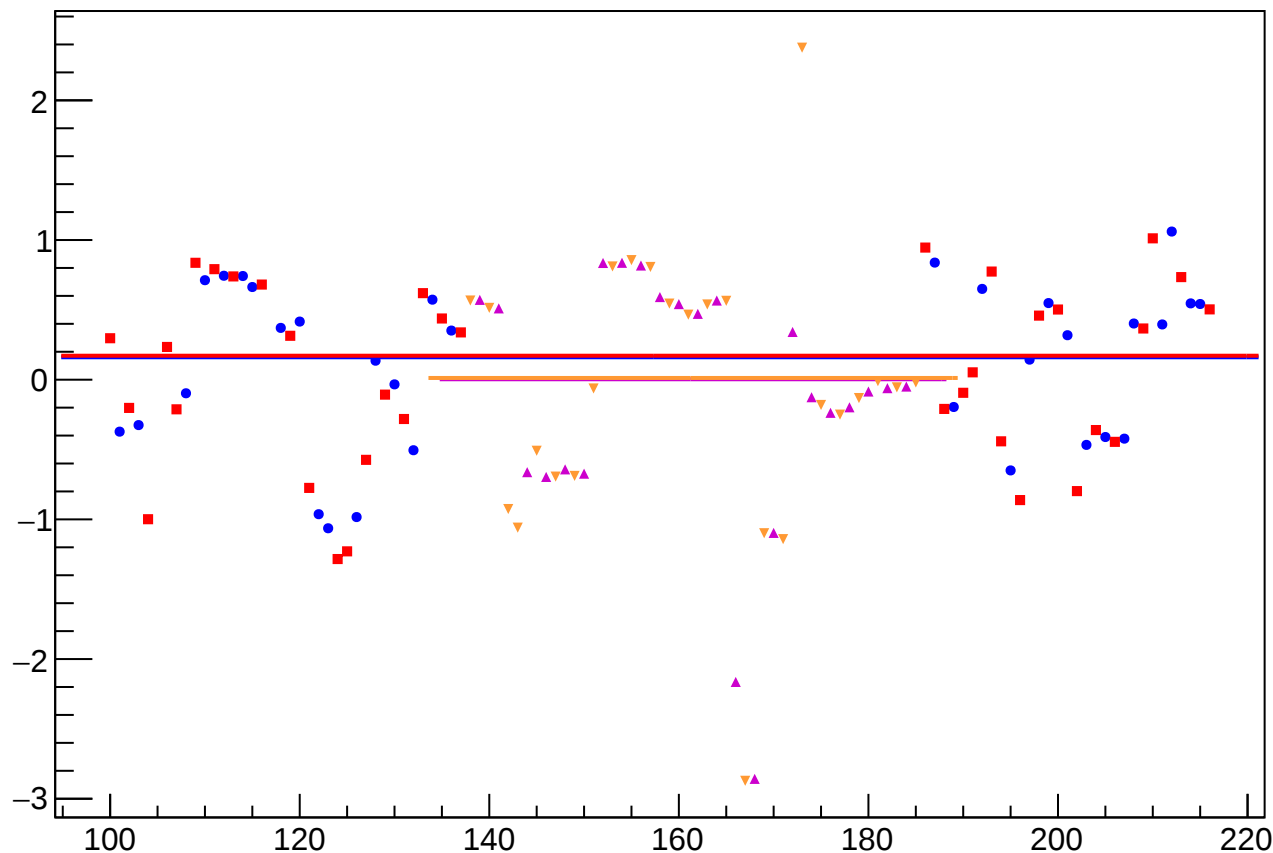
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 10582488.1/66

In: 0.015 $\pm$ 0.000 χ^2 /NDF:7251369.5/54

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:6879327.9/59

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 14130719.0/114

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: 0.172 $\pm$ 0.000 χ^2 /NDF: 41539880147.9/34

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

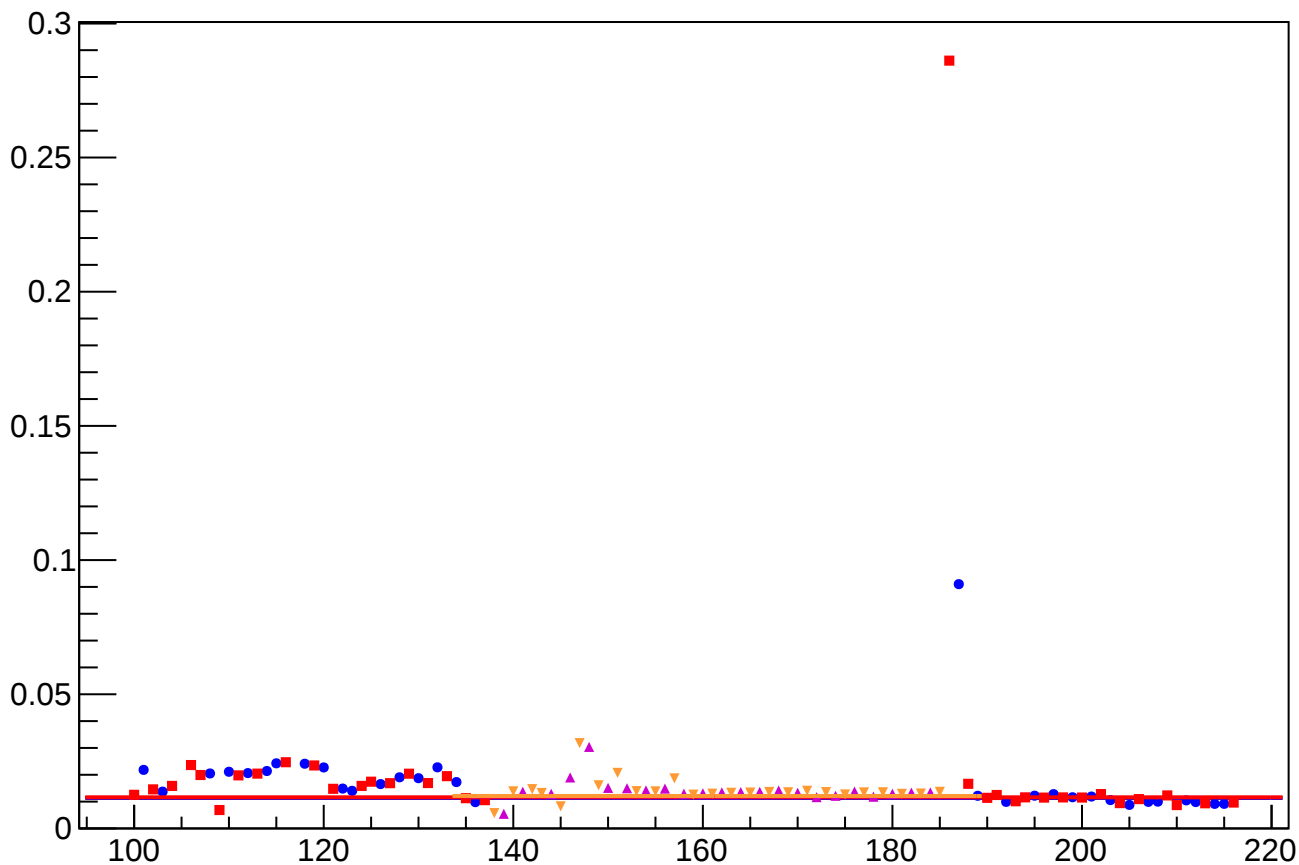
Right: 0.166 $\pm$ 0.000 χ^2 /NDF: 72398903700.1/66

In: 0.085 $\pm$ 0.000 χ^2 /NDF: 111018837972.6/54

Out: 0.092 $\pm$ 0.000 χ^2 /NDF: 139303955832.3/59

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 250328404550.6

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 : 3021571.0/34

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

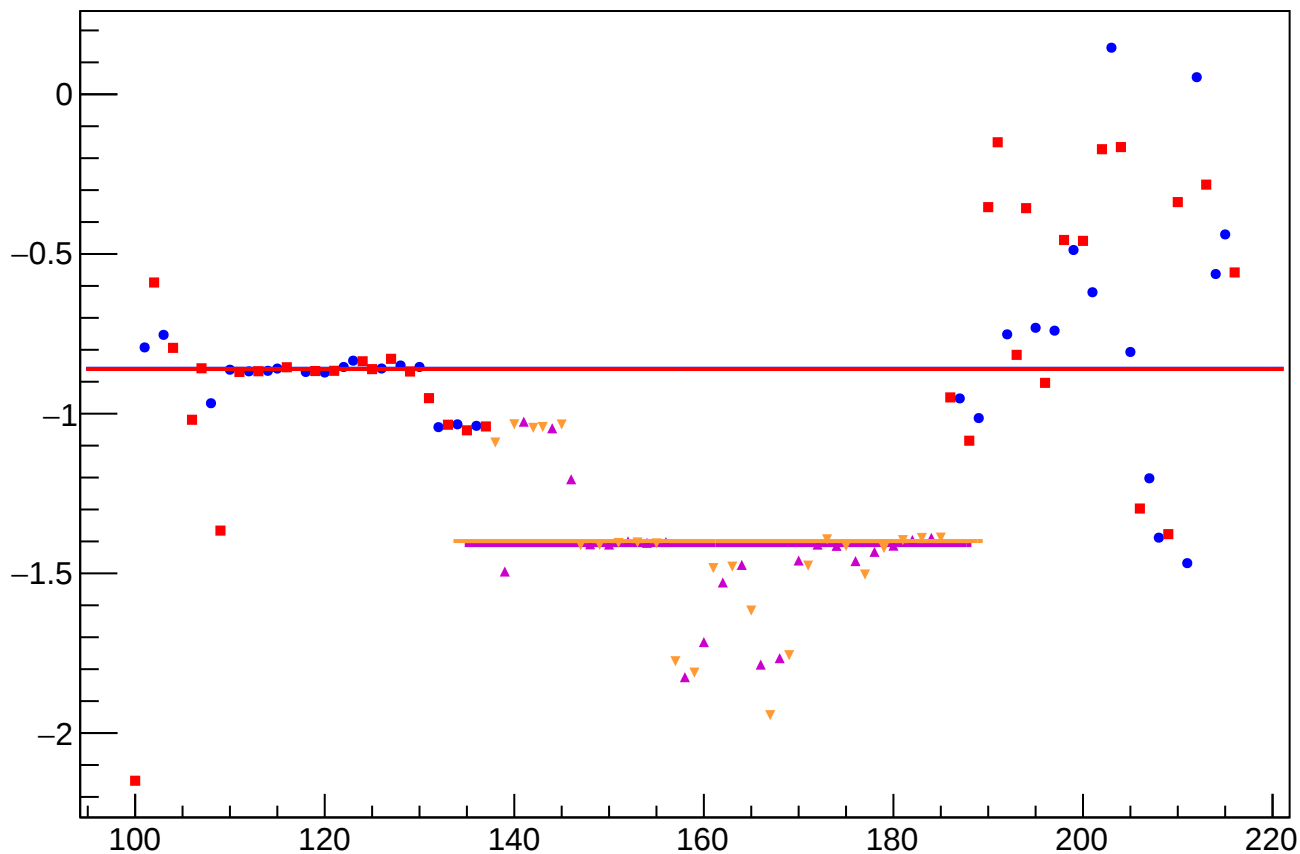
Right: 0.011+/-0.000 χ^2/NDF : 5642525.6/66

In: 0.012+/-0.000 χ^2/NDF :5661856.7/54

Out: 0.012+/-0.000 χ^2/NDF :6155305.8/59

All: 0.012+/-0.000 χ^2/NDF : 11824265.5/114

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: -0.860 ± 0.000 $\chi^2/\text{NDF}: 492958942.6/34$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

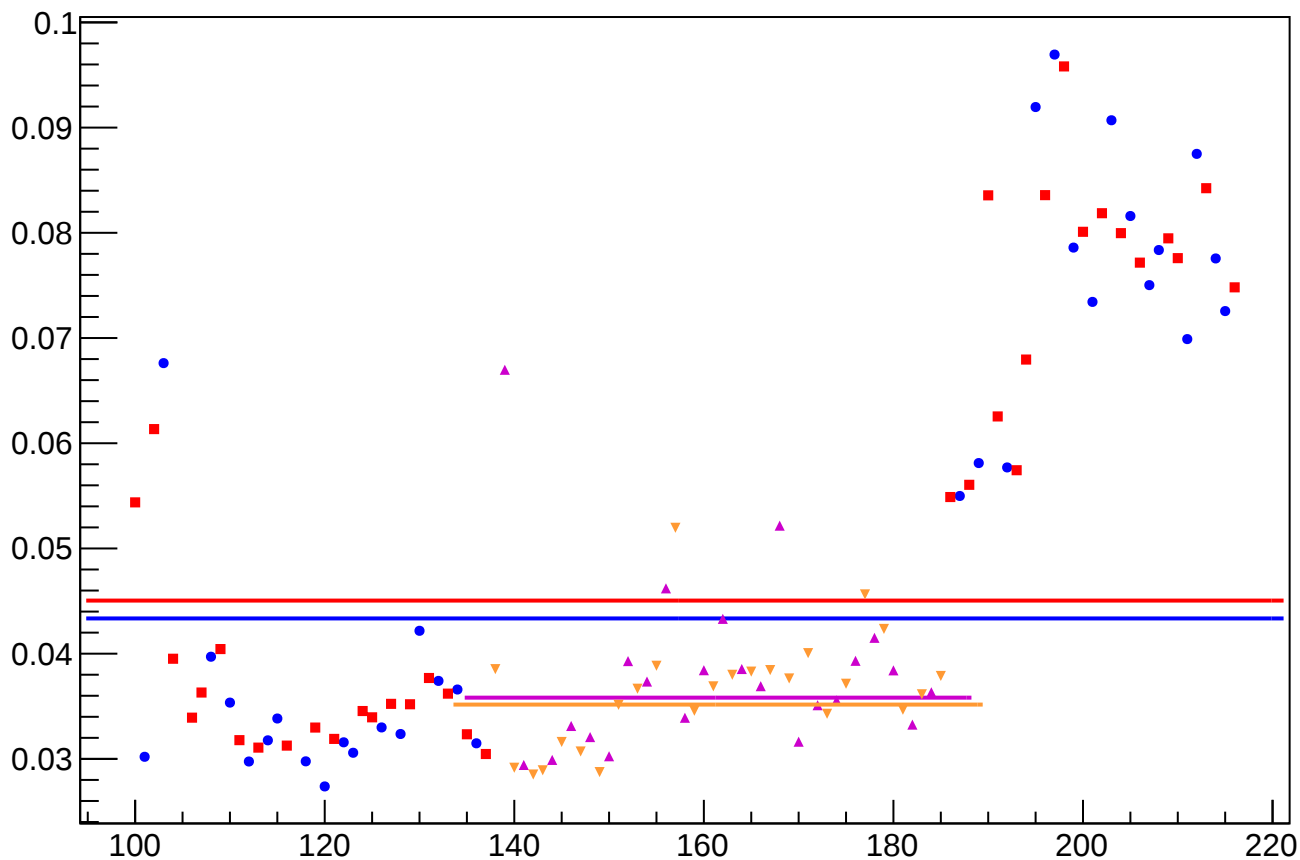
Right: -0.860 ± 0.000 $\chi^2/\text{NDF}: 865732042.6/66$

In: -1.205 ± 0.000 $\chi^2/\text{NDF}: 2244549229.1/54$

Out: -1.211 ± 0.000 $\chi^2/\text{NDF}: 2545269892.6/59$

All: -1.208 ± 0.000 $\chi^2/\text{NDF}: 4790170585.7/111$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.043+/-0.000 χ^2/NDF : 5392766.6/31

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.045+/-0.000 χ^2/NDF : 4554336.8/34

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

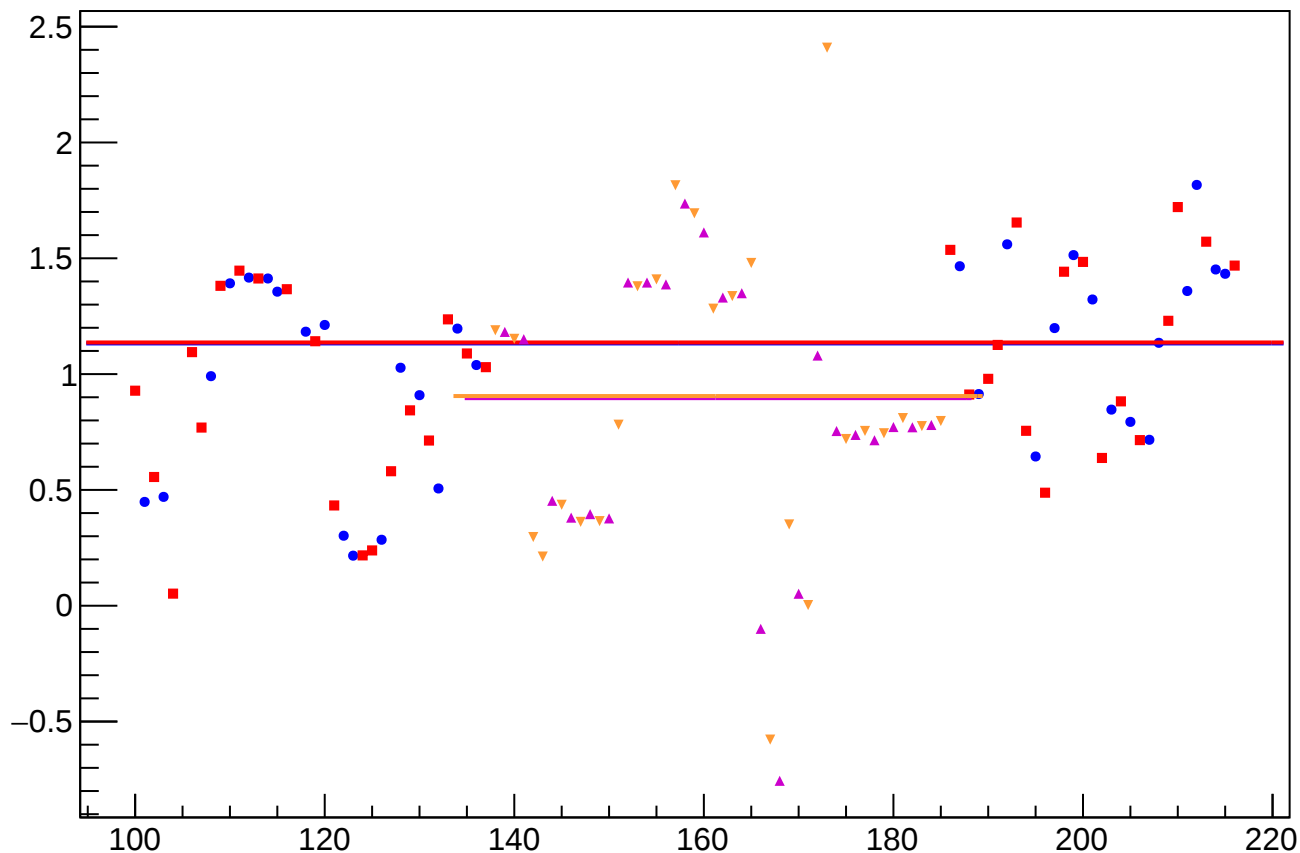
Right: 0.044+/-0.000 χ^2/NDF : 9967407.3/66

In: 0.039+/-0.000 χ^2/NDF : 6762386.5/54

Out: 0.039+/-0.000 χ^2/NDF : 6034647.9/59

All: 0.039+/-0.000 χ^2/NDF : 12797047.1/114

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.132 $\pm$ 0.000

χ^2 /NDF: 42362777269.5/31

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 1.134 $\pm$ 0.000 χ^2 /NDF: 88570104648.5/66

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 1.038 $\pm$ 0.000 χ^2 /NDF: 115806232922.6/54

Right Out: 1.137 $\pm$ 0.000

χ^2 /NDF: 46204706459.6/34

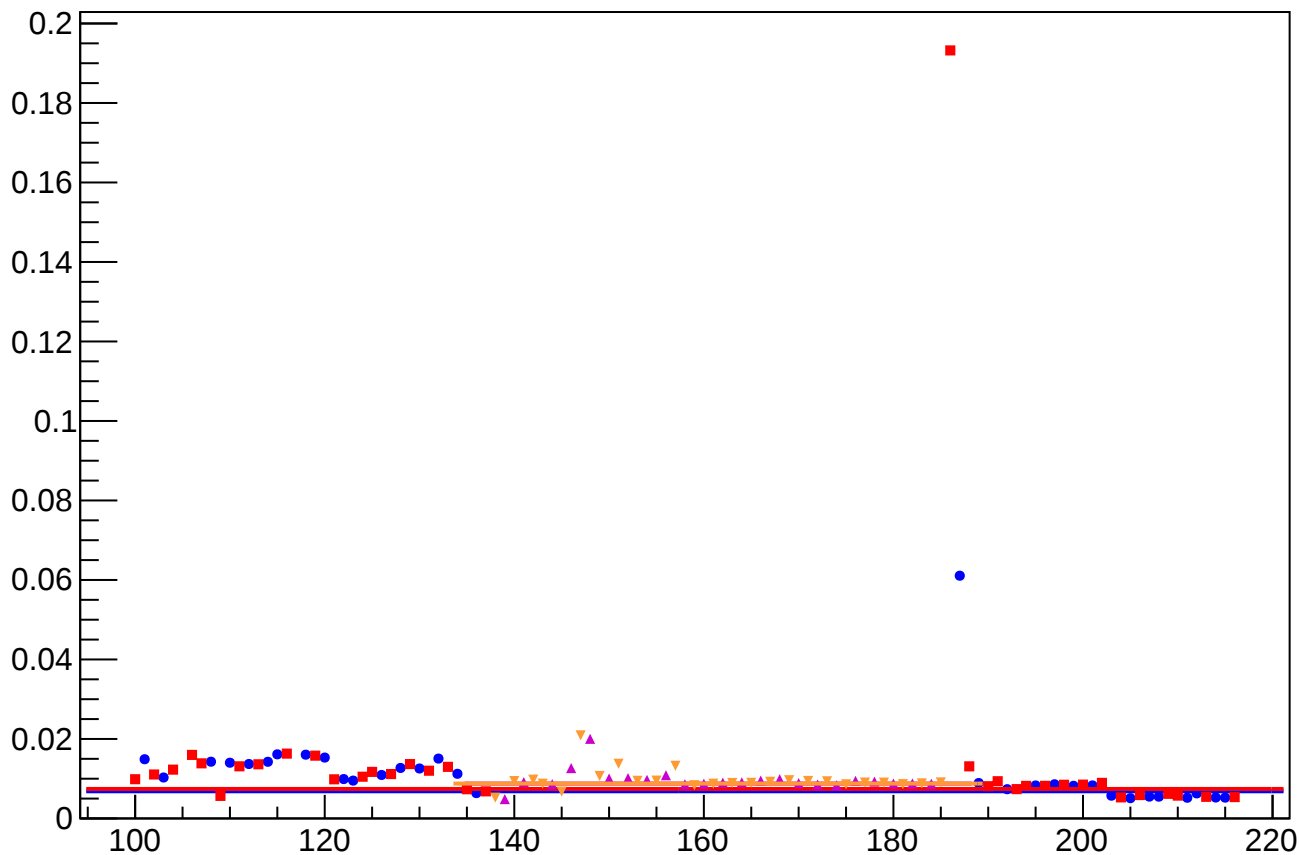
Out: 1.032 $\pm$ 0.000 χ^2 /NDF: 136887917716.6/59

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 1.035 $\pm$ 0.000 χ^2 /NDF: 252702502780.5

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: 0.007+/-0.000 χ^2/NDF : 3874670.0/34

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

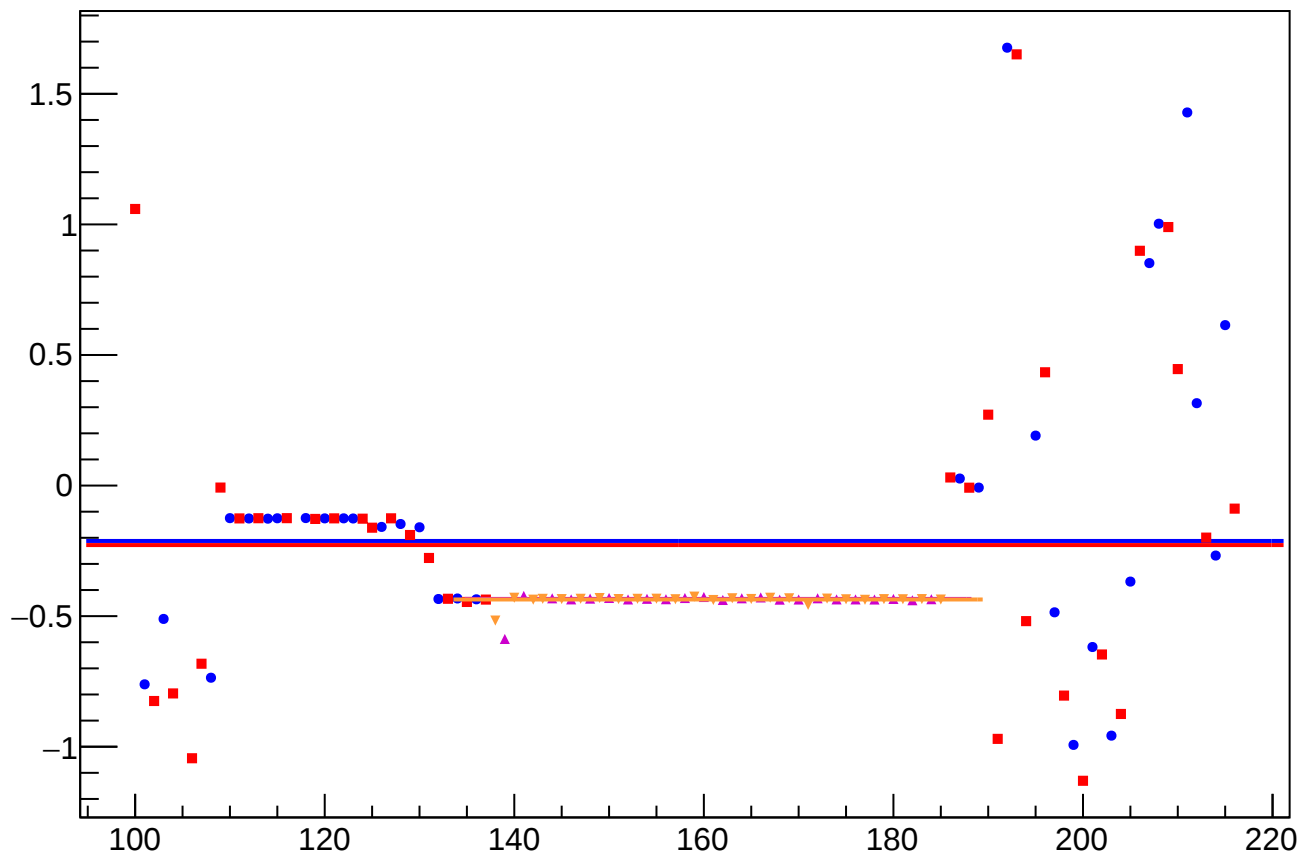
Right: 0.007+/-0.000 χ^2/NDF : 7725736.0/66

In: 0.008+/-0.000 χ^2/NDF :6282150.3/54

Out: 0.008+/-0.000 χ^2/NDF :6014310.9/59

All: 0.008+/-0.000 χ^2/NDF : 12385237.3/114

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: -0.228 ± 0.000 χ^2/NDF : 3424446144.6/34

Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

Left: -0.435 ± 0.000 χ^2/NDF : 53122221.7/47

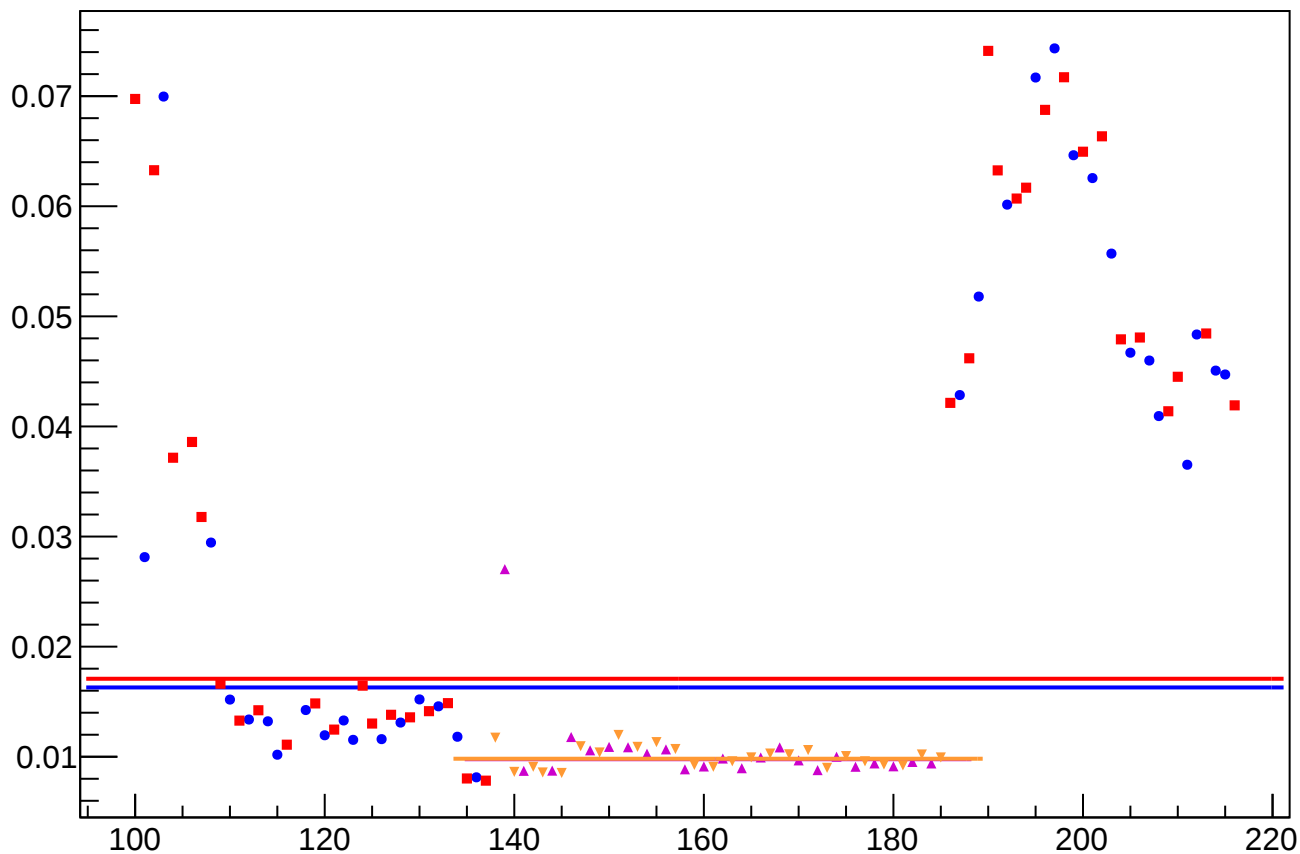
Right: -0.220 ± 0.000 χ^2/NDF : 8409422977.5/66

In: -0.392 ± 0.000 χ^2/NDF : 6438542049.0/54

Out: -0.400 ± 0.000 χ^2/NDF : 4661123120.9/59

All: -0.396 ± 0.000 χ^2/NDF : 11107092962.6/115

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: 12714895.2/34

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

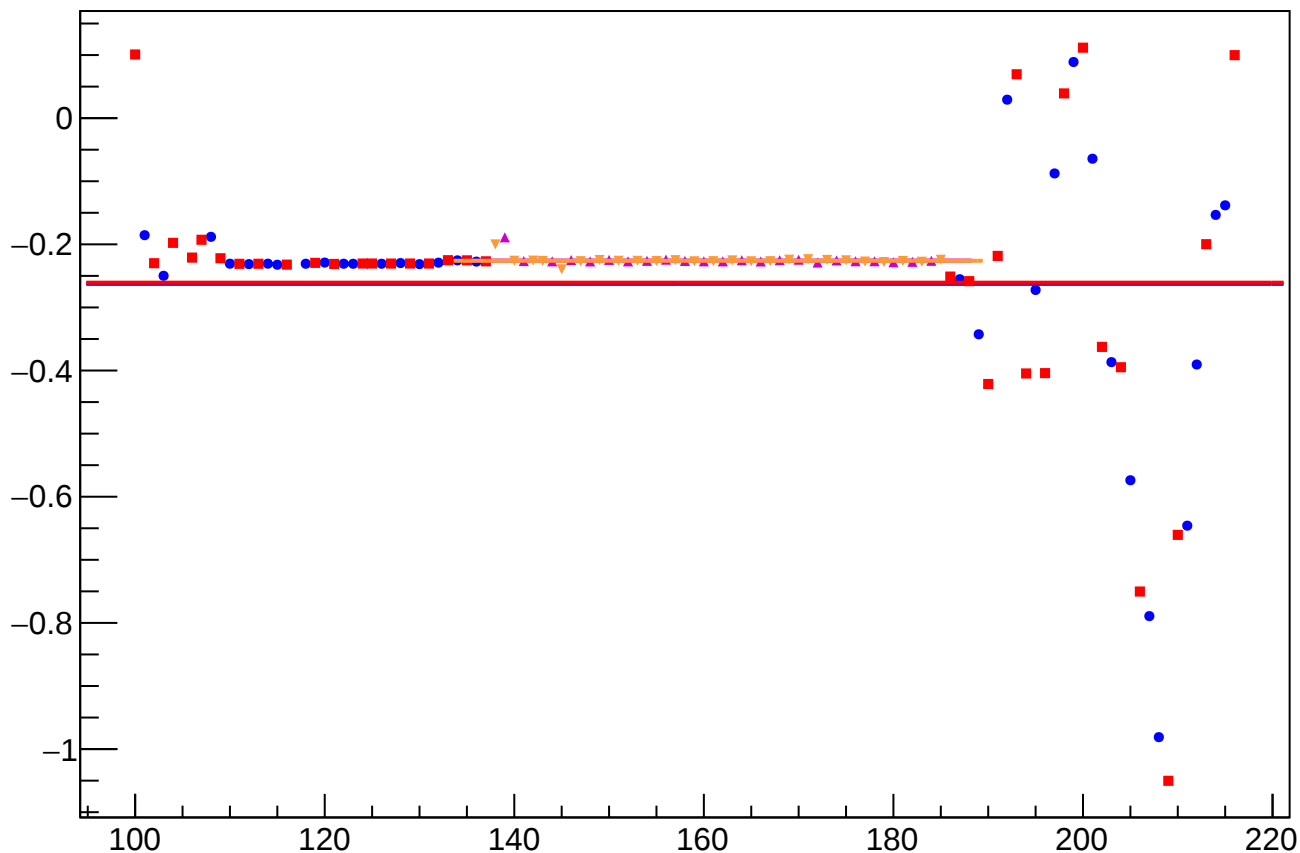
Right: 0.017 $\pm$ 0.000 χ^2 /NDF: 25241875.5/66

In: 0.011 $\pm$ 0.000 χ^2 /NDF:15727310.3/54

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:15920200.8/59

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 31647926.6/114

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.263 ± 0.000

$\chi^2/\text{NDF}: 25128939462.3/31$

Left: -0.226 ± 0.000

$\chi^2/\text{NDF}: 36480793.2/47$

Left Out: -0.226 ± 0.000

$\chi^2/\text{NDF}: 21205667.4/24$

Right: -0.262 ± 0.000

$\chi^2/\text{NDF}: 51719822136.7/66$

Right Out: -0.261 ± 0.000

$\chi^2/\text{NDF}: 26590083609.5/34$

In: -0.242 ± 0.000

$\chi^2/\text{NDF}: 25522745304.1/54$

Out: -0.241 ± 0.000

$\chi^2/\text{NDF}: 26966030399.7/59$

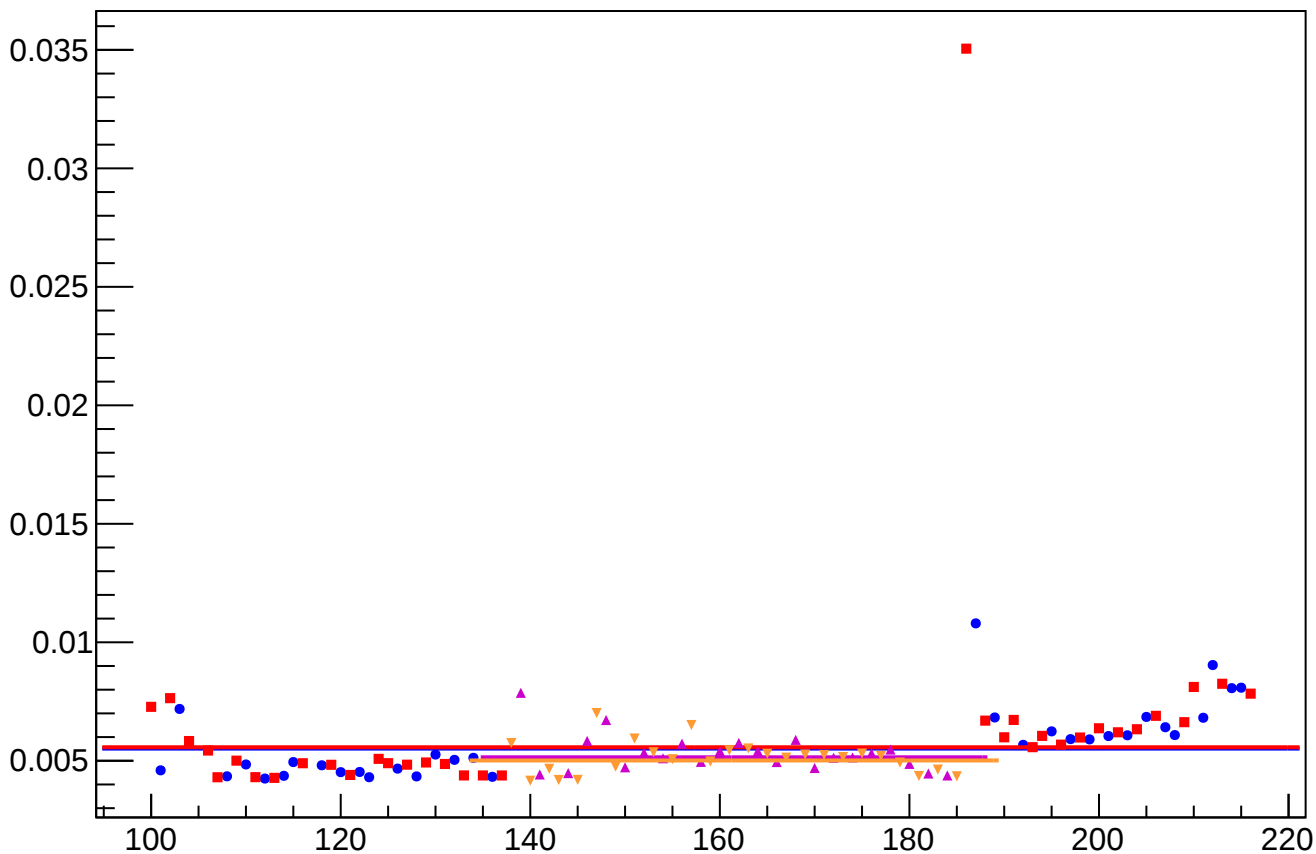
Left In: -0.226 ± 0.000

$\chi^2/\text{NDF}: 15245251.1/22$

All: -0.242 ± 0.000

$\chi^2/\text{NDF}: 52490117899.2/100$

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 : 1714521.5/34

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

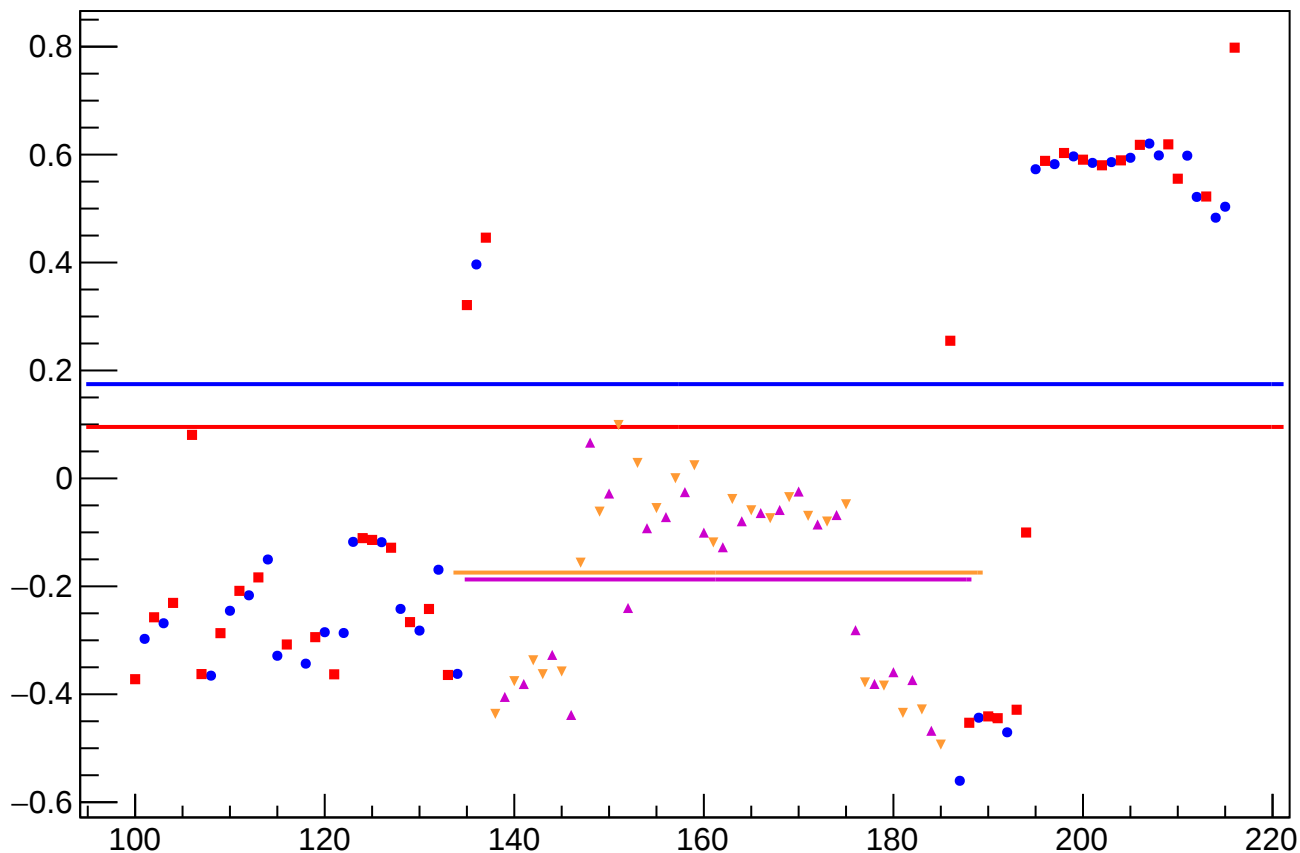
Right: 0.006+/-0.000 χ^2/NDF : 3082247.5/66

In: 0.005+/-0.000 χ^2/NDF : 1935016.7/54

Out: 0.005+/-0.000 χ^2/NDF : 2427190.5/59

All: 0.005+/-0.000 χ^2/NDF : 4366575.1/114

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.175 ± 0.000 $\chi^2/\text{NDF}: 68815783718.4/31$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: 0.095 ± 0.000 $\chi^2/\text{NDF}: 72372621959.8/34$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

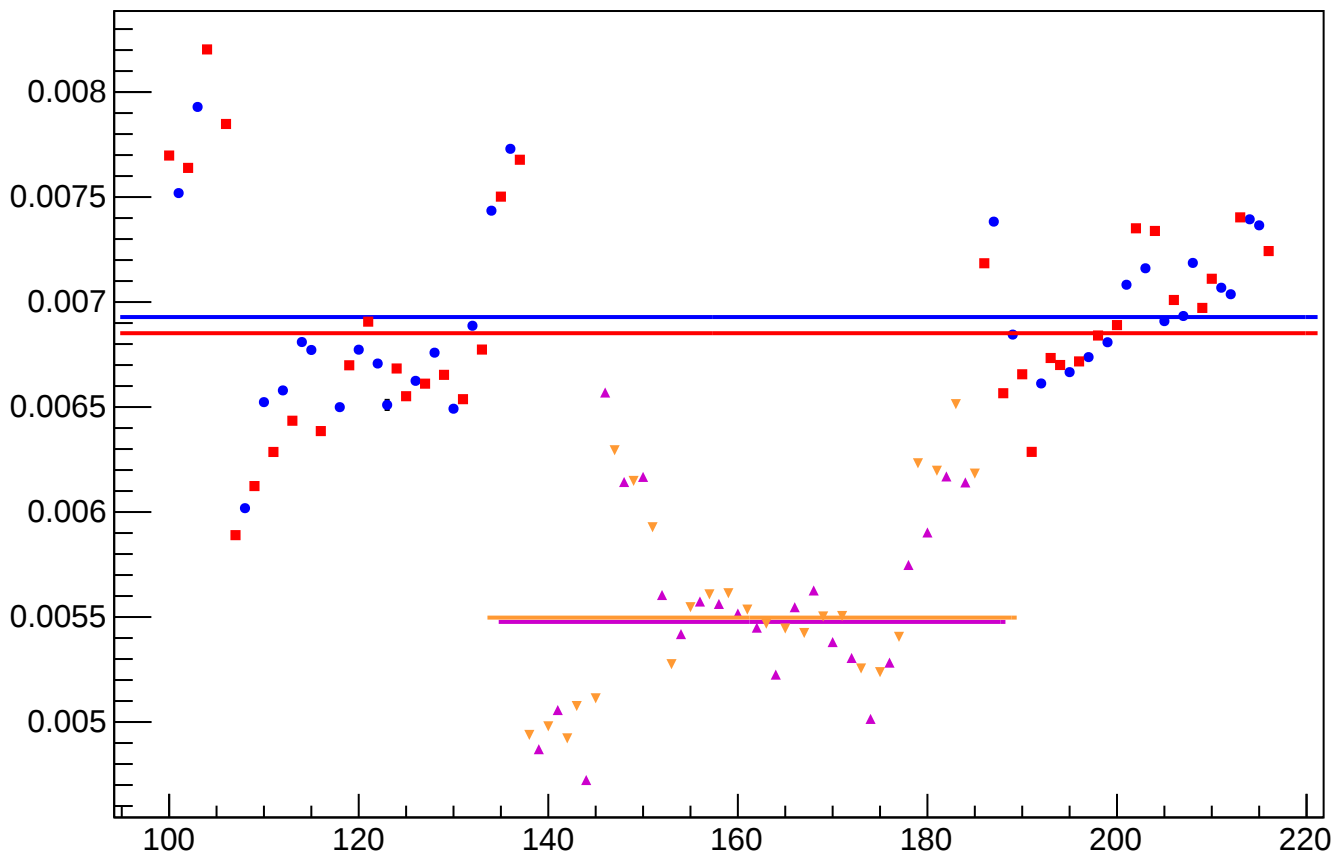
Right: 0.134 ± 0.000 $\chi^2/\text{NDF}: 142335381066.2/66$

In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 109911394999.5/54$

Out: -0.069 ± 0.000 $\chi^2/\text{NDF}: 106902991403.3/59$

All: -0.057 ± 0.000 $\chi^2/\text{NDF}: 217084352259.7$

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 : 145880.3/34

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

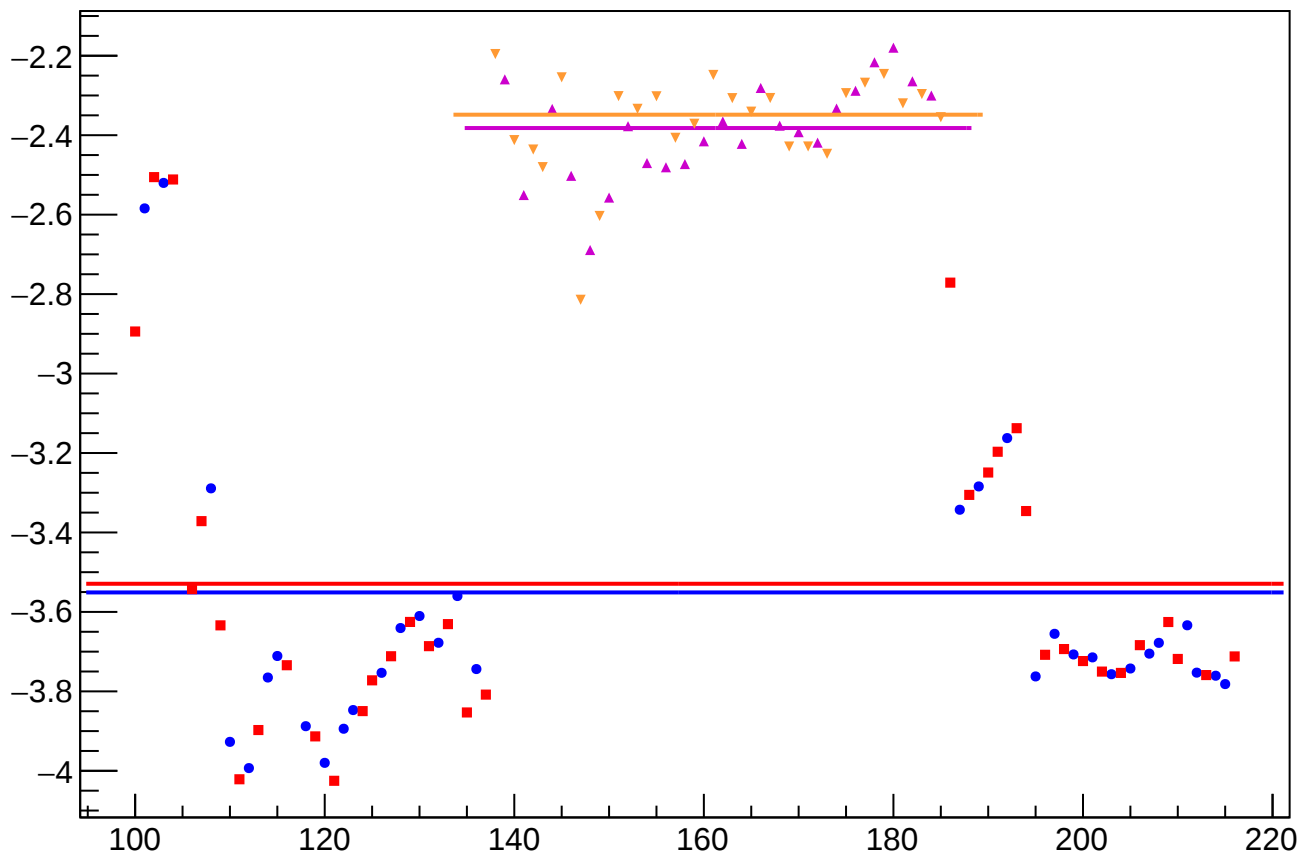
Right: 0.007+/-0.000 χ^2/NDF : 252693.5/66

In: 0.006+/-0.000 χ^2/NDF :1216755.4/54

Out: 0.006+/-0.000 χ^2/NDF :1176226.8/59

All: 0.006+/-0.000 χ^2/NDF : 2393385.5/114

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.551+/-0.000 χ^2/NDF : 30702735195.5/31

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.529+/-0.000 χ^2/NDF : 31457248112.4/34

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

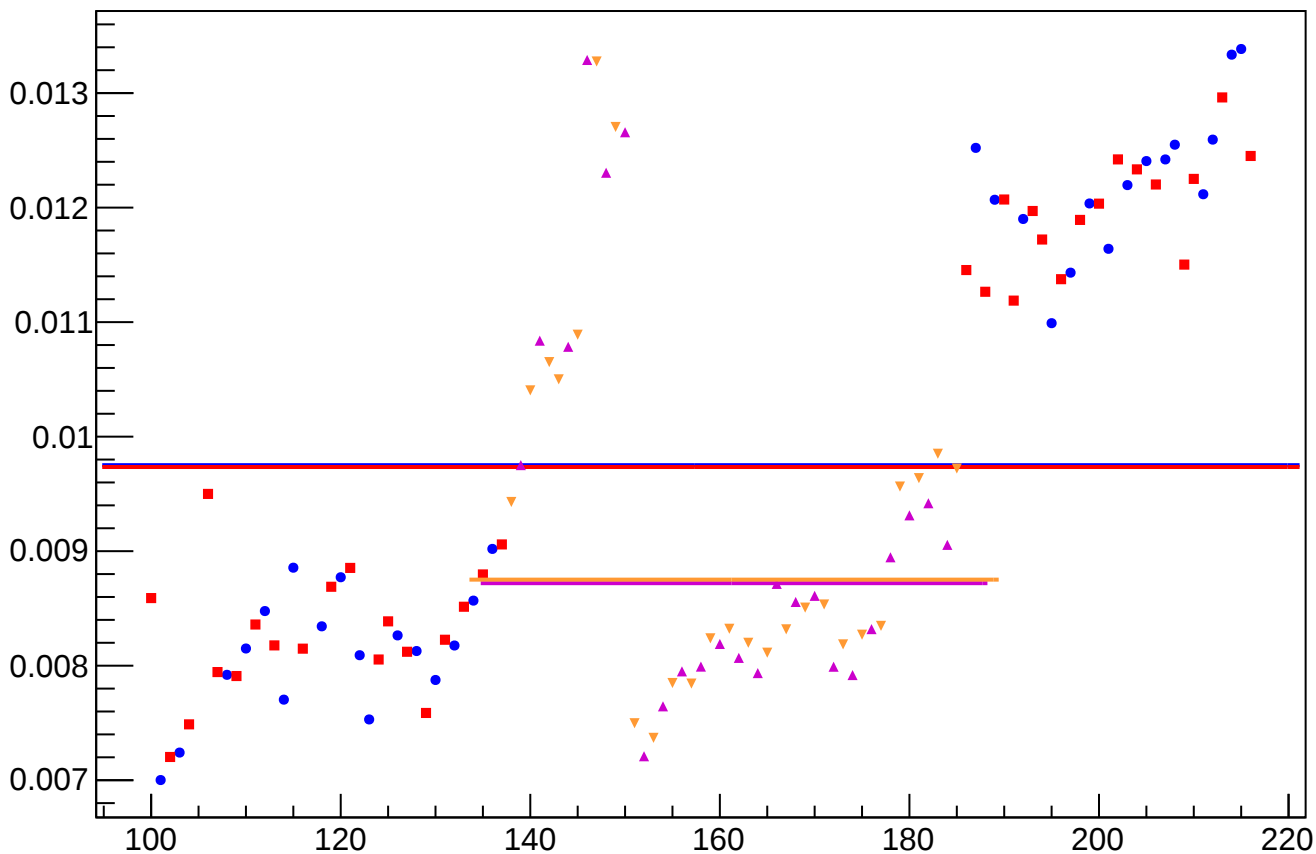
Right: -3.540+/-0.000 χ^2/NDF : 62201485224.9/66

In: -2.903+/-0.000 χ^2/NDF : 162877937304.1/54

Out: -2.868+/-0.000 χ^2/NDF : 171719414900.9/59

All: -2.885+/-0.000 χ^2/NDF : 334827768856.1

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: 1336281.3/34

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

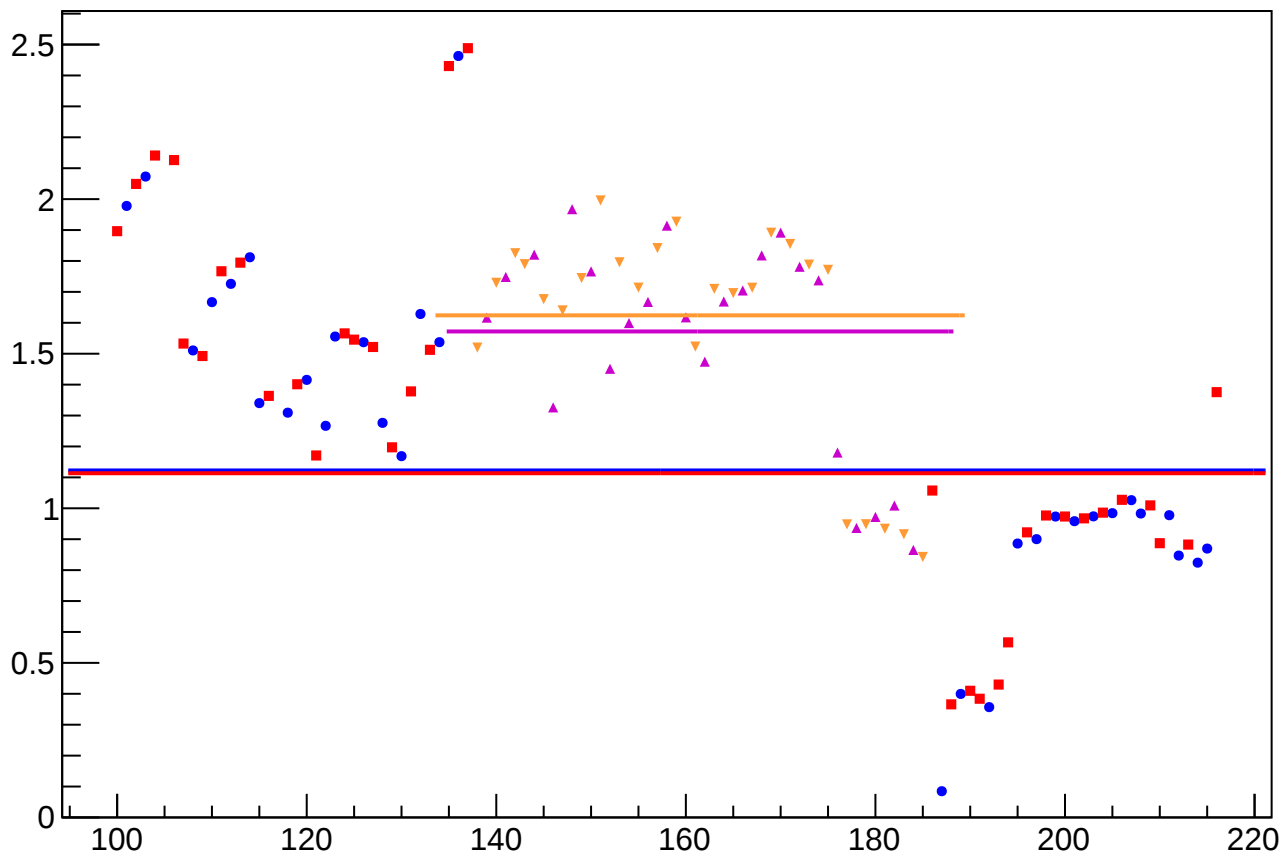
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 2858861.3/66

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2472212.1/54

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2191591.7/59

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4663814.1/114

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: 1.113+/-0.000 χ^2/NDF : 33414962804.6/34

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

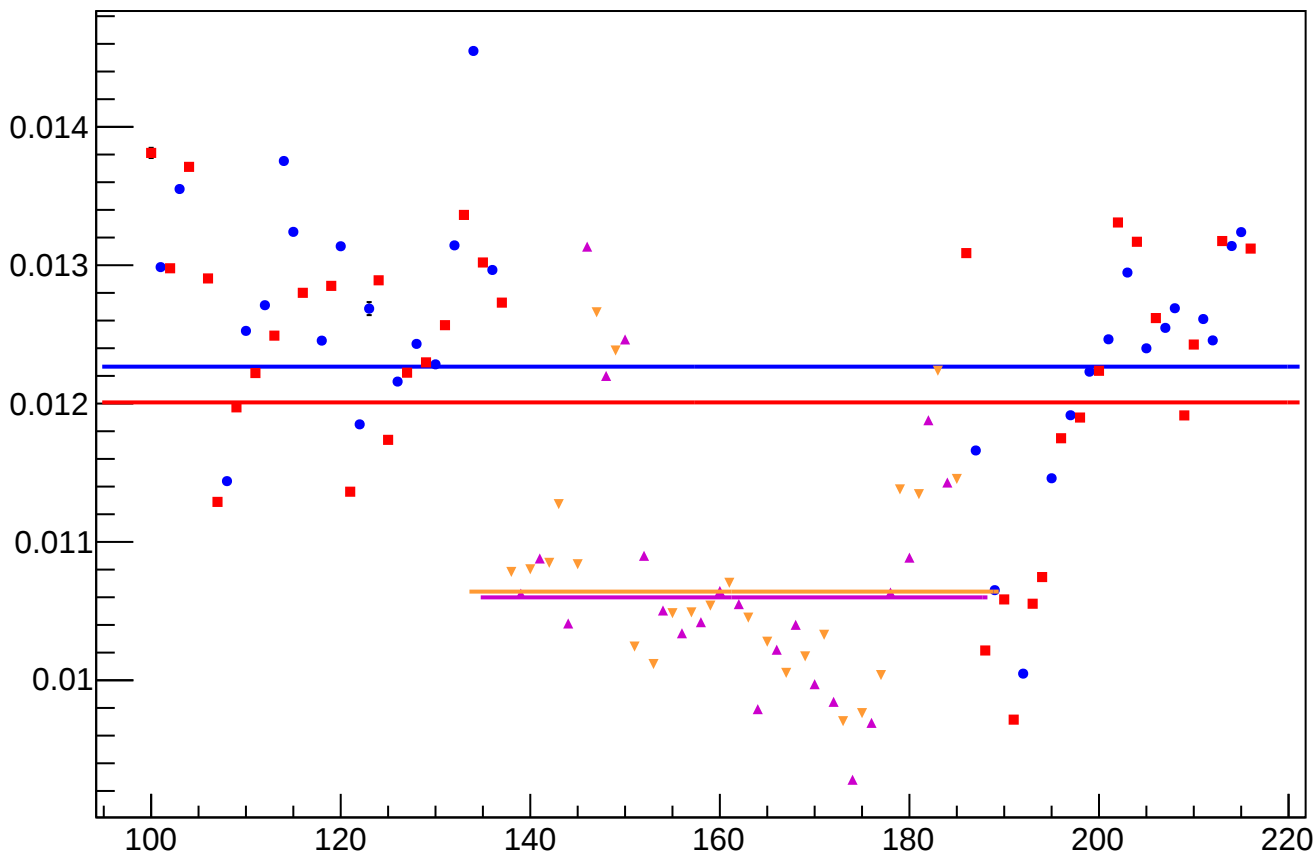
Right: 1.118+/-0.000 χ^2/NDF : 62261910880.2/66

In: 1.377+/-0.000 χ^2/NDF : 56005349818.0/54

Out: 1.402+/-0.000 χ^2/NDF : 67767732765.4/59

All: 1.390+/-0.000 χ^2/NDF : 123852968239.0

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 : 254771.5/34

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

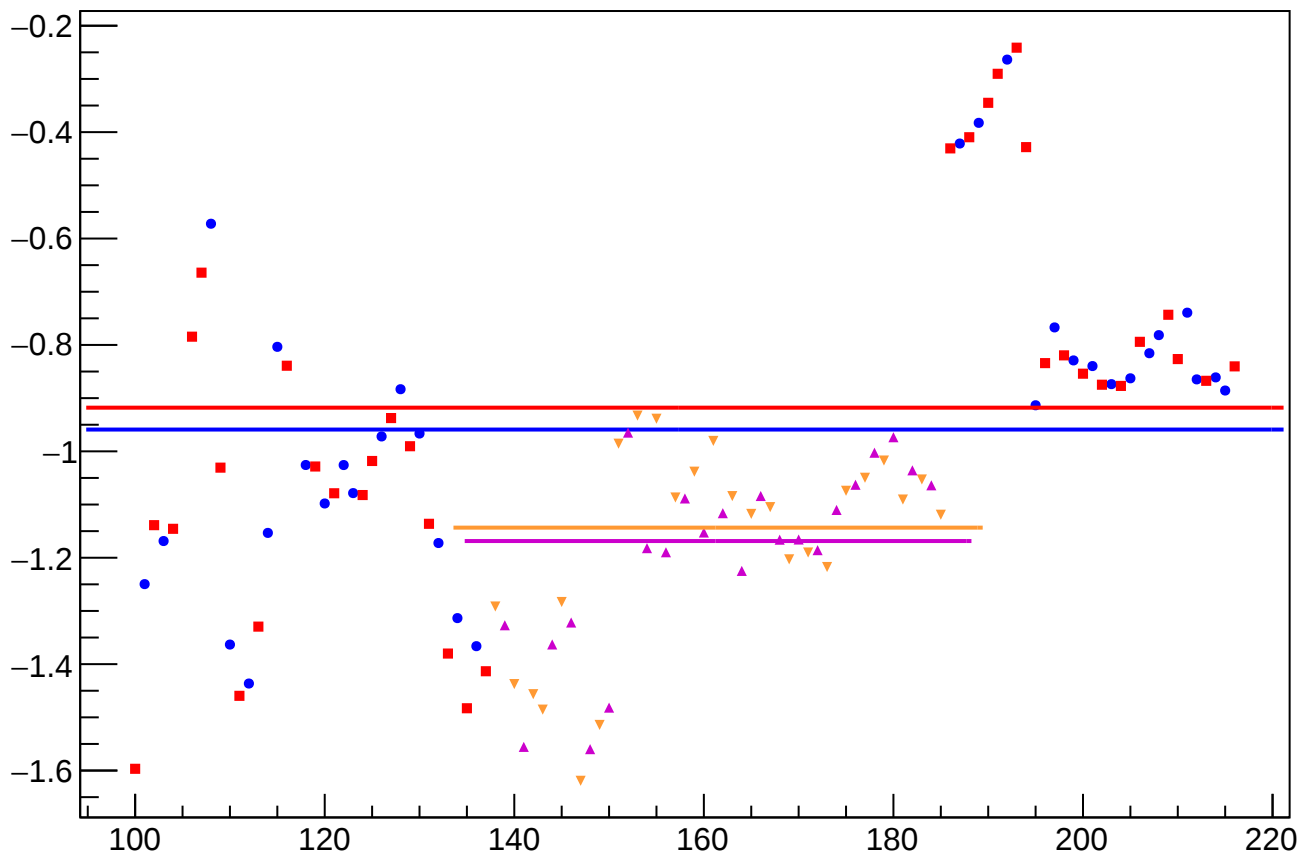
Right: 0.012+/-0.000 χ^2/NDF : 448851.7/66

In: 0.011+/-0.000 χ^2/NDF :746668.0/54

Out: 0.011+/-0.000 χ^2/NDF :668675.4/59

All: 0.011+/-0.000 χ^2/NDF : 1417274.0/114

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: -0.918 ± 0.000 $\chi^2/\text{NDF}: 16113929306.6/34$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

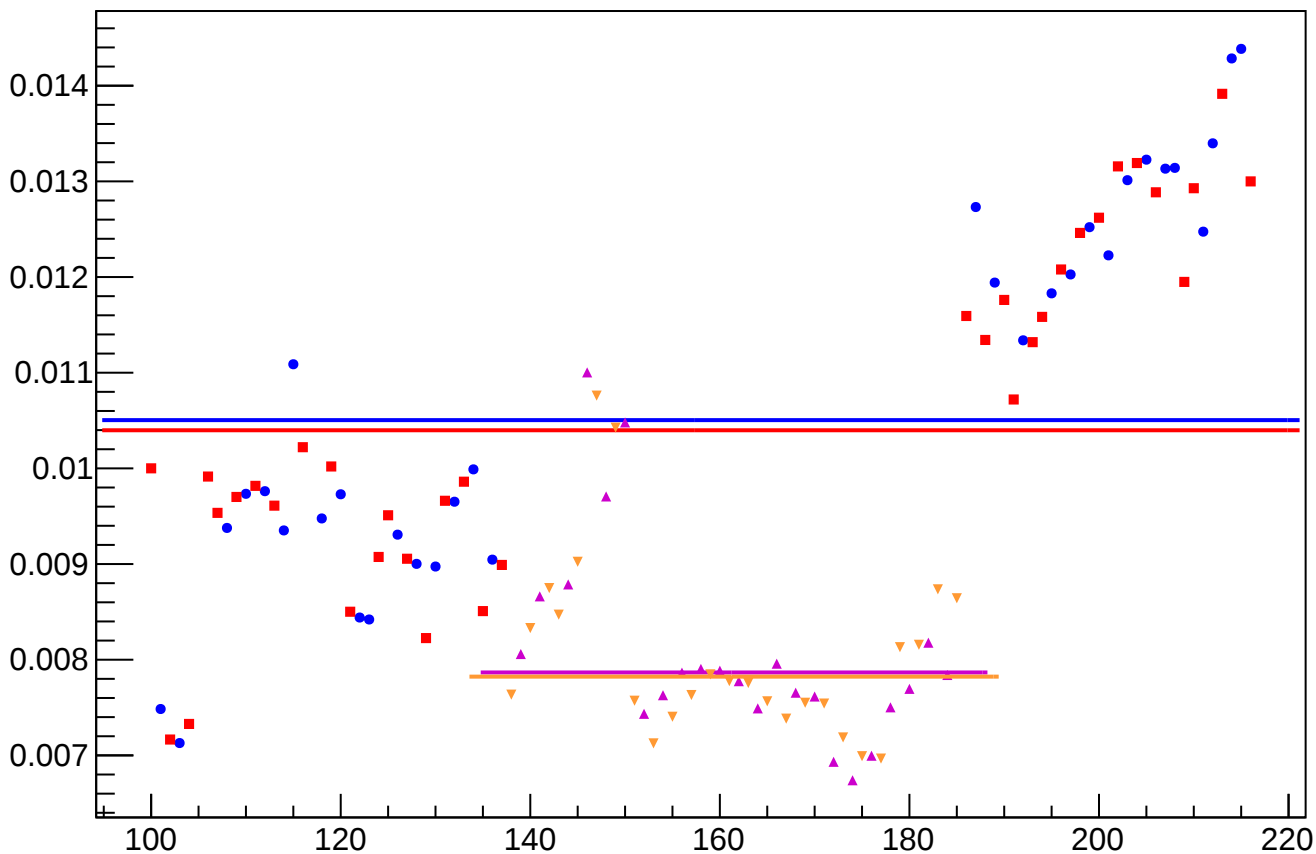
Right: -0.938 ± 0.000 $\chi^2/\text{NDF}: 27728771756.1/66$

In: -1.093 ± 0.000 $\chi^2/\text{NDF}: 21987287454.9/54$

Out: -1.063 ± 0.000 $\chi^2/\text{NDF}: 29151289085.5/59$

All: -1.078 ± 0.000 $\chi^2/\text{NDF}: 51328685621.8/100$

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 : 1152117.0/34

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

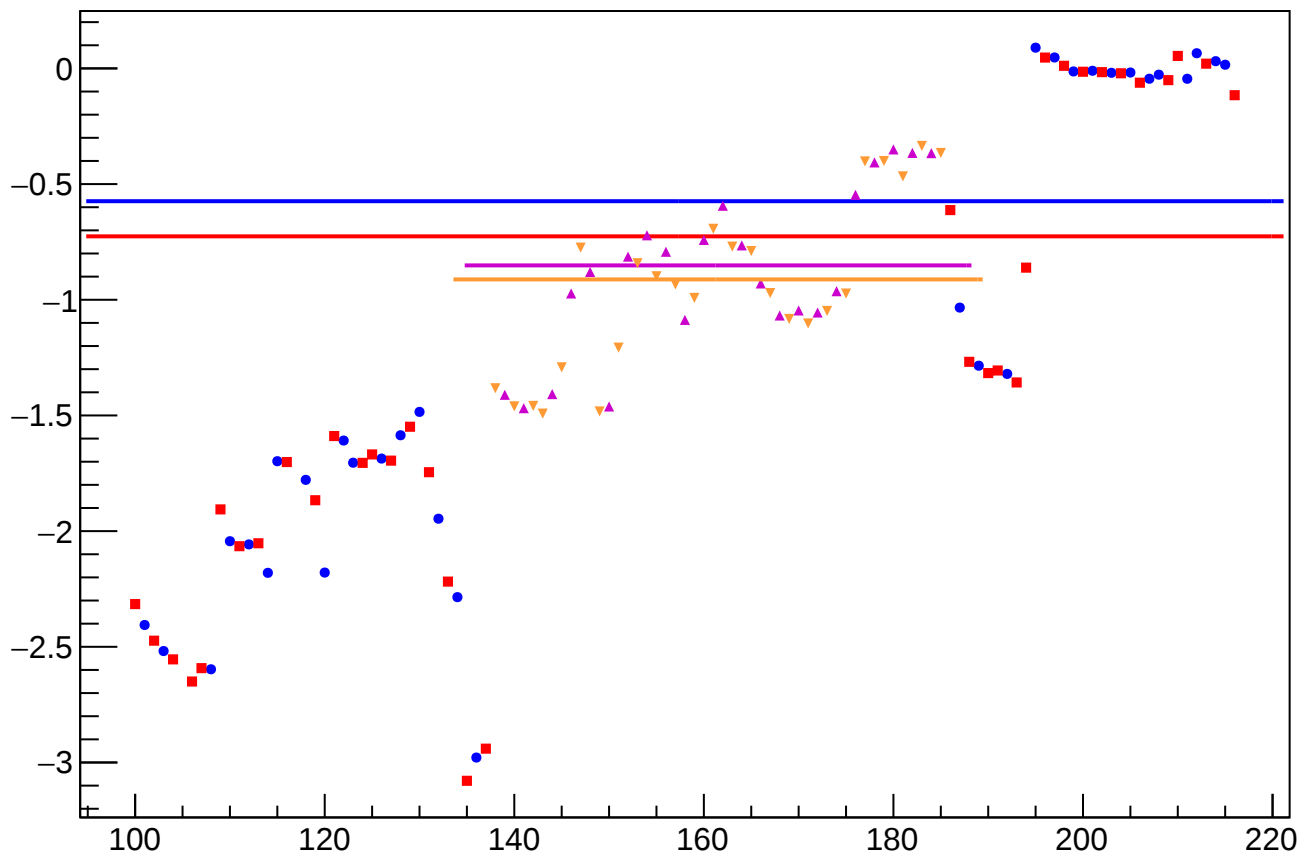
Right: 0.010+/-0.000 χ^2/NDF : 2475971.5/66

In: 0.009+/-0.000 χ^2/NDF :3012871.0/54

Out: 0.009+/-0.000 χ^2/NDF :2808683.6/59

All: 0.009+/-0.000 χ^2/NDF : 5824005.7/114

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: -0.726 ± 0.000 $\chi^2/\text{NDF}: 428405289565.6/34$

Left In: -0.851 ± 0.000 $\chi^2/\text{NDF}: 46438446008.2/22$

Left: -0.882 ± 0.000 $\chi^2/\text{NDF}: 96285672564.6/47$

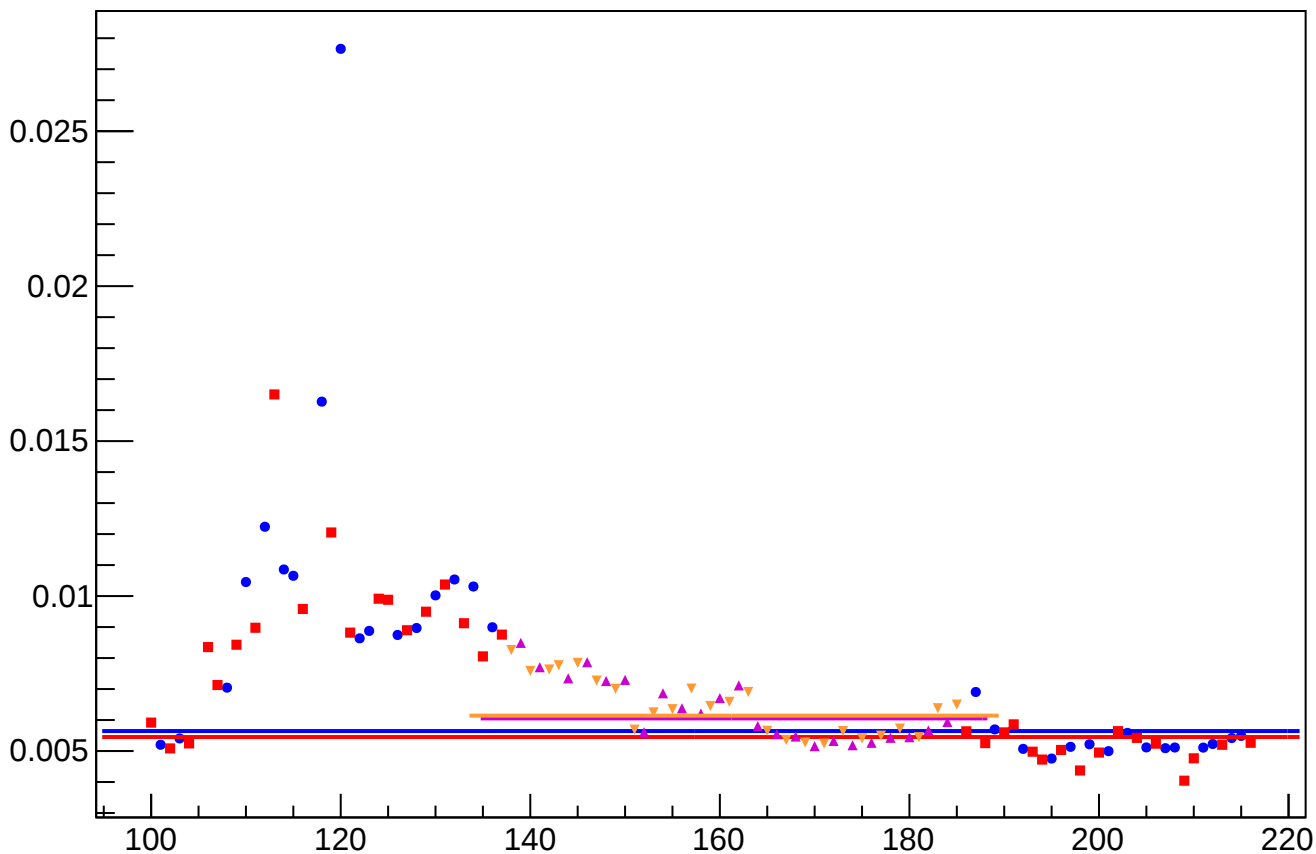
Right: -0.654 ± 0.000 $\chi^2/\text{NDF}: 839036830110.2/66$

In: -0.709 ± 0.000 $\chi^2/\text{NDF}: 468684843951.1/54$

Out: -0.813 ± 0.000 $\chi^2/\text{NDF}: 485651513306.9/59$

All: -0.763 ± 0.000 $\chi^2/\text{NDF}: 959286442159.1$

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 : 2131571.1/34

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

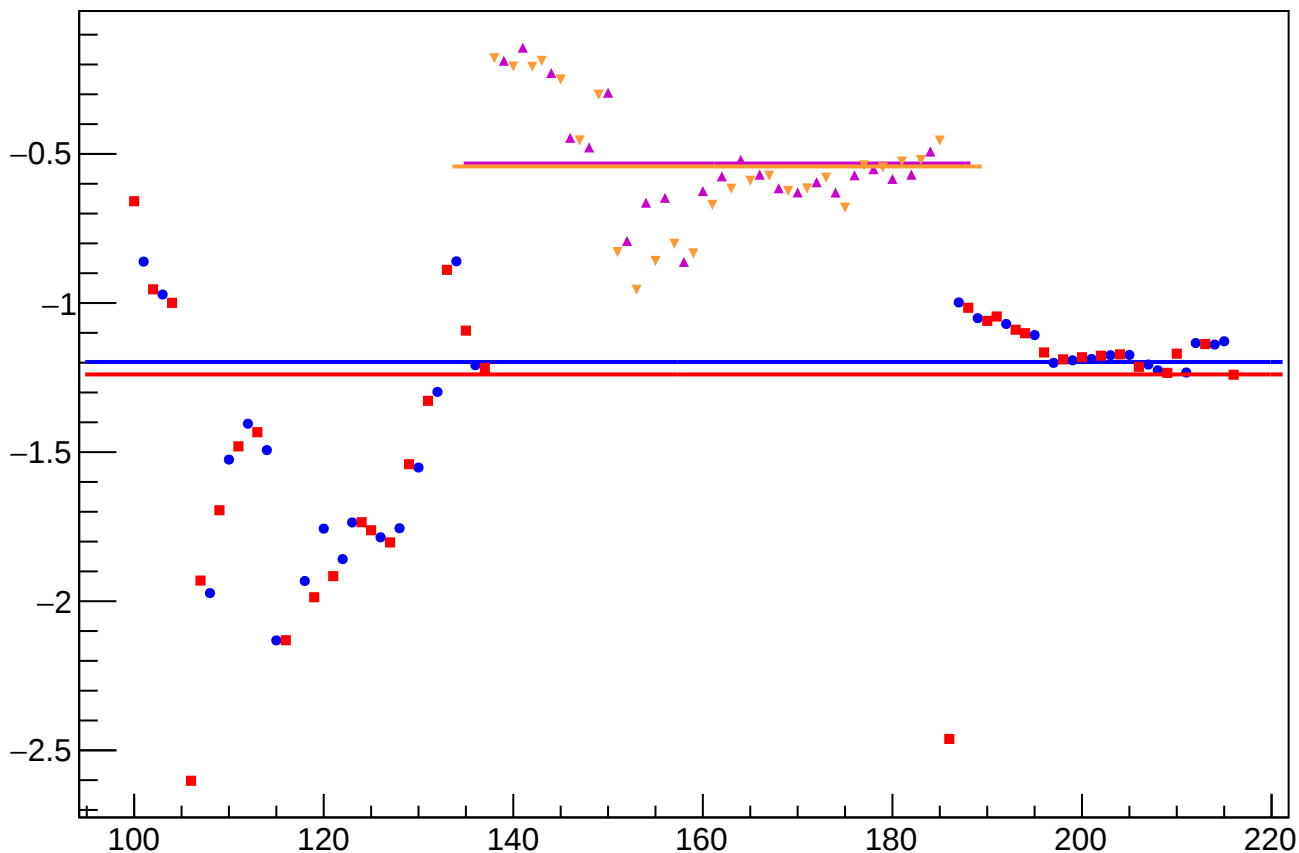
Right: 0.006+/-0.000 χ^2/NDF : 4210074.0/66

In: 0.006+/-0.000 χ^2/NDF : 2832585.4/54

Out: 0.006+/-0.000 χ^2/NDF : 2995168.4/59

All: 0.006+/-0.000 χ^2/NDF : 5832086.5/114

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.198+/-0.000 χ^2/NDF : 26913537136.1/31

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.239+/-0.000 χ^2/NDF : 79541629551.1/34

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

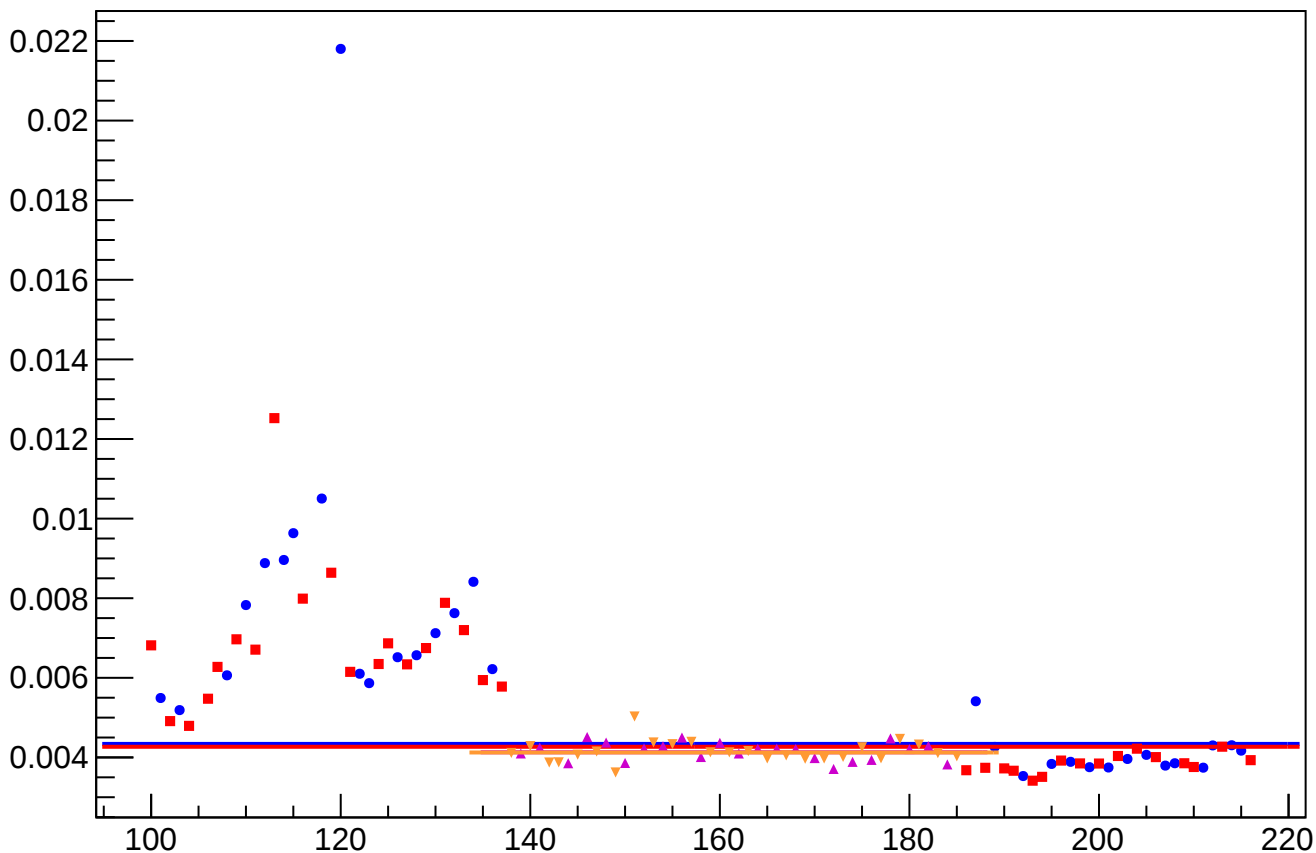
Right: -1.219+/-0.000 χ^2/NDF : 107146713678.0/66

In: -0.833+/-0.000 χ^2/NDF : 244807121866.6/54

Out: -0.858+/-0.000 χ^2/NDF : 345439167040.9/59

All: -0.846+/-0.000 χ^2/NDF : 590813001841.1

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 : 1898220.4/34

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

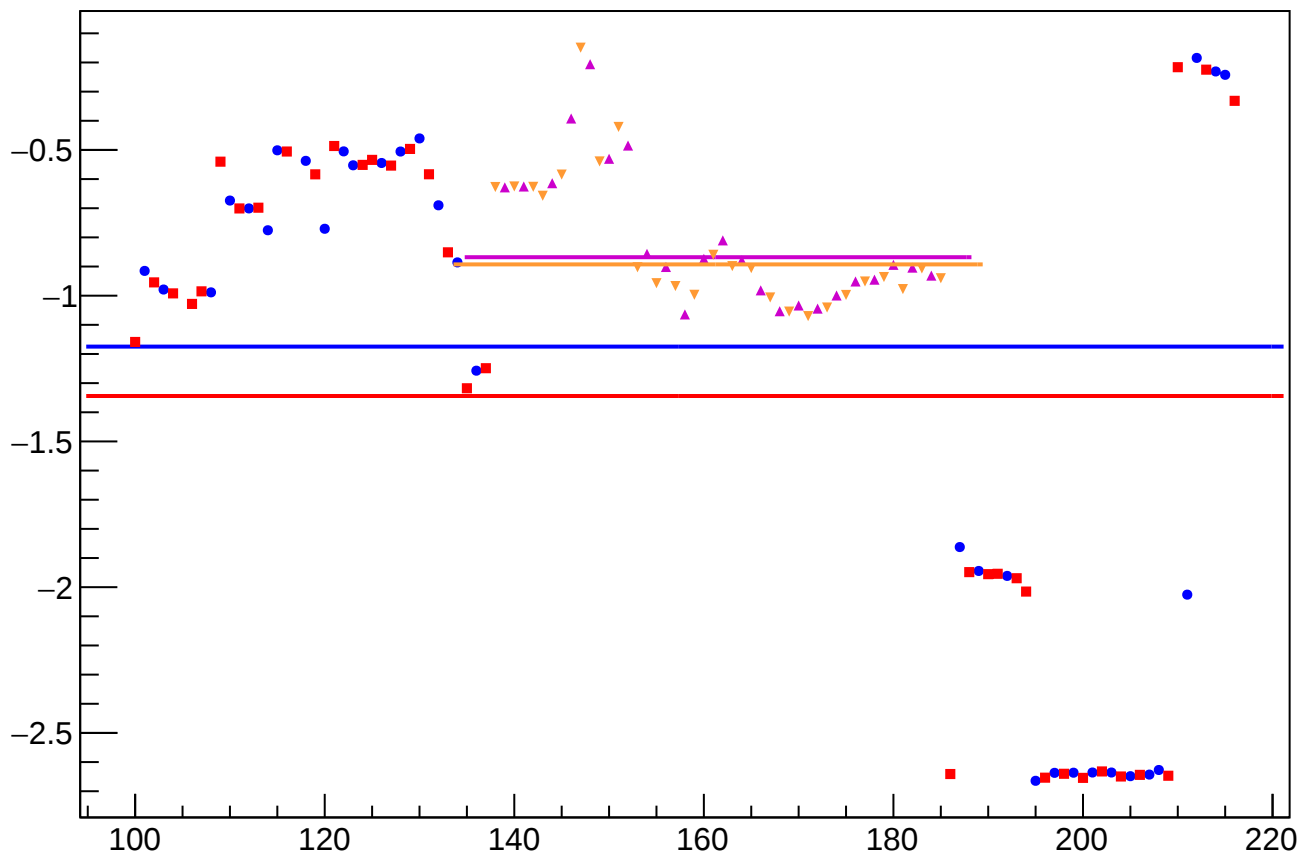
Right: 0.004+/-0.000 χ^2/NDF : 3974291.7/66

In: 0.004+/-0.000 χ^2/NDF :2202303.0/54

Out: 0.004+/-0.000 χ^2/NDF :2029705.8/59

All: 0.004+/-0.000 χ^2/NDF : 4234174.6/114

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: -1.344+/-0.000 χ^2/NDF : 634529775798.6/34

Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000 χ^2/NDF : 84980637247.0/47

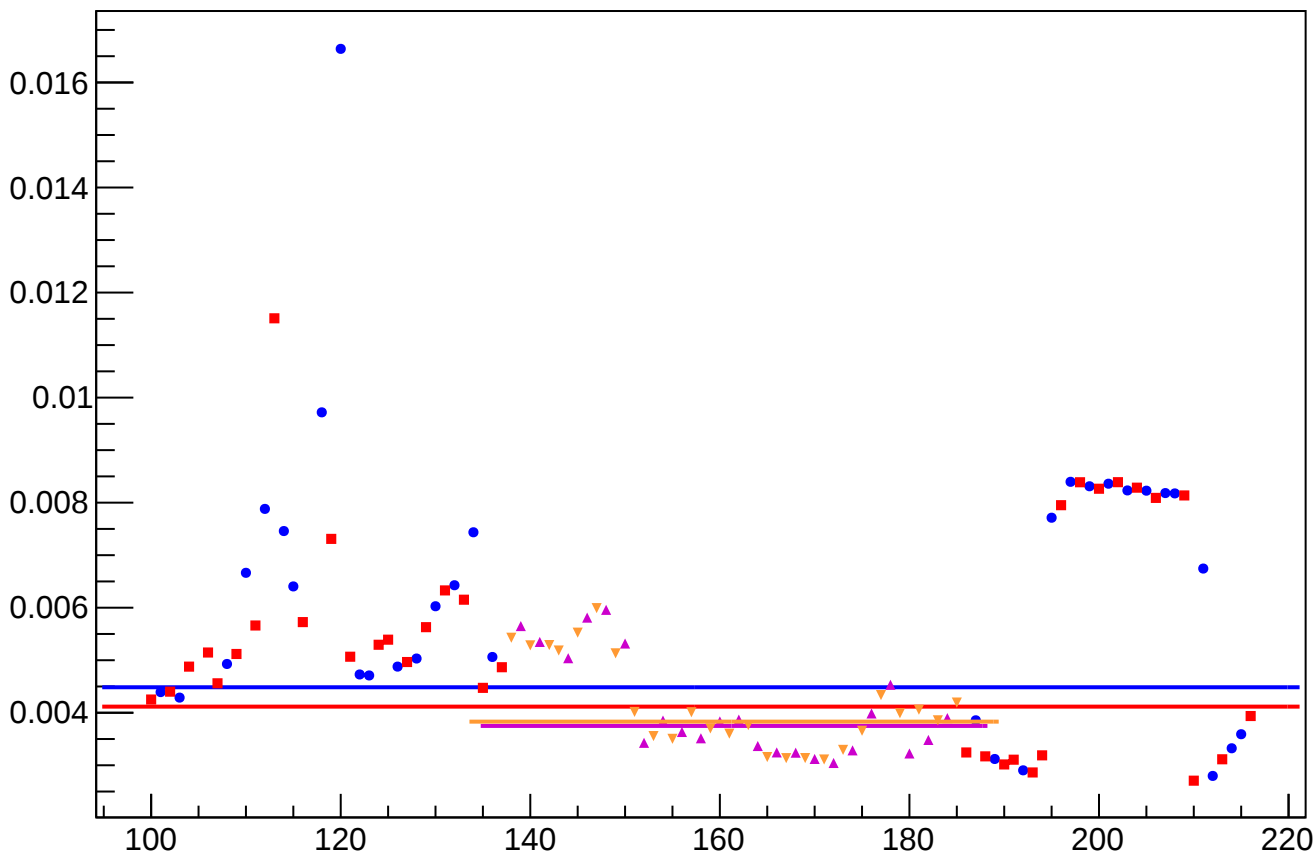
Right: -1.269+/-0.000 χ^2/NDF : 1187664713249.2/6

In: -0.984+/-0.000 χ^2/NDF : 625830698356.5/54

Out: -1.086+/-0.000 χ^2/NDF : 773485730493.0/59

All: -1.037+/-0.000 χ^2/NDF : 1409089420828

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 : 4715517.5/34

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

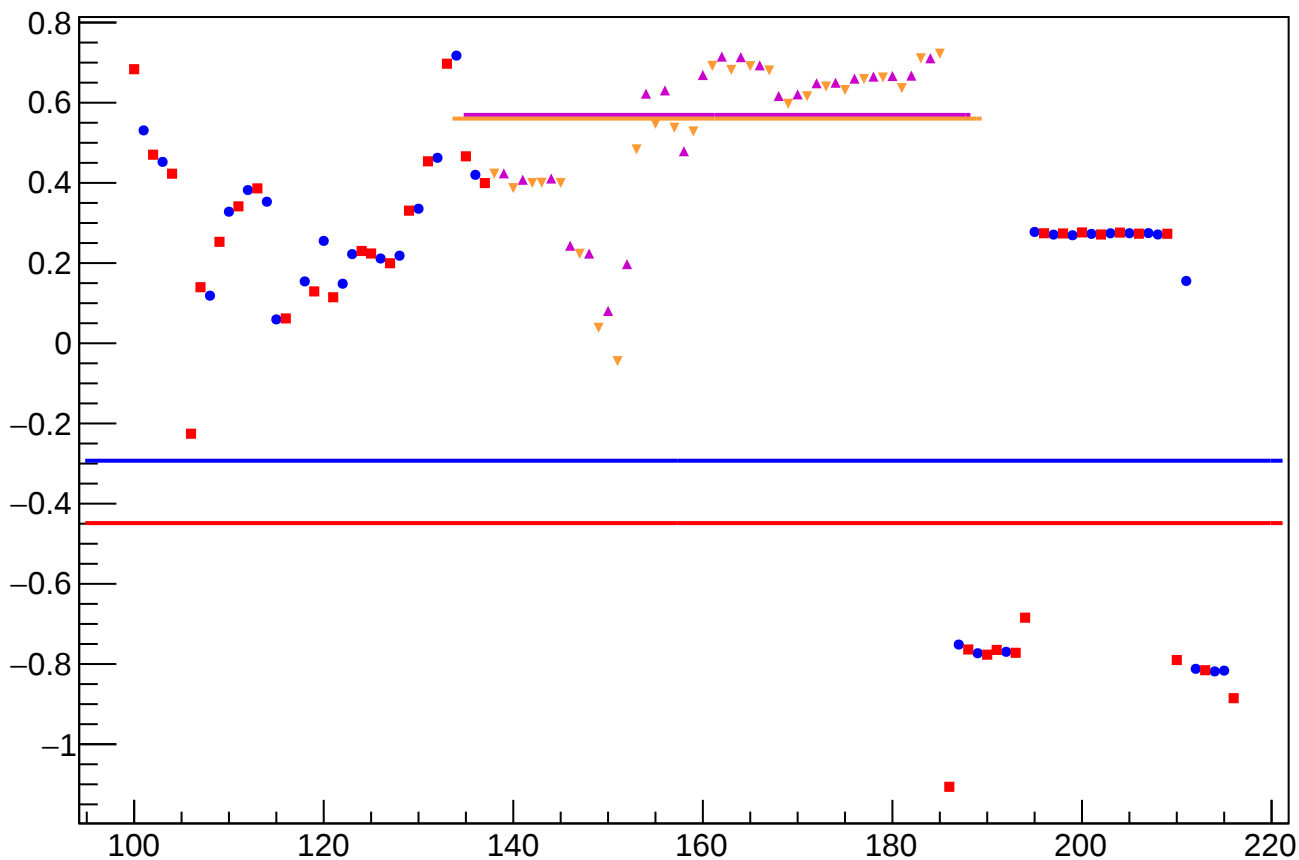
Right: 0.004+/-0.000 χ^2/NDF : 9878457.4/66

In: 0.004+/-0.000 χ^2/NDF :6806081.7/54

Out: 0.004+/-0.000 χ^2/NDF :5973957.6/59

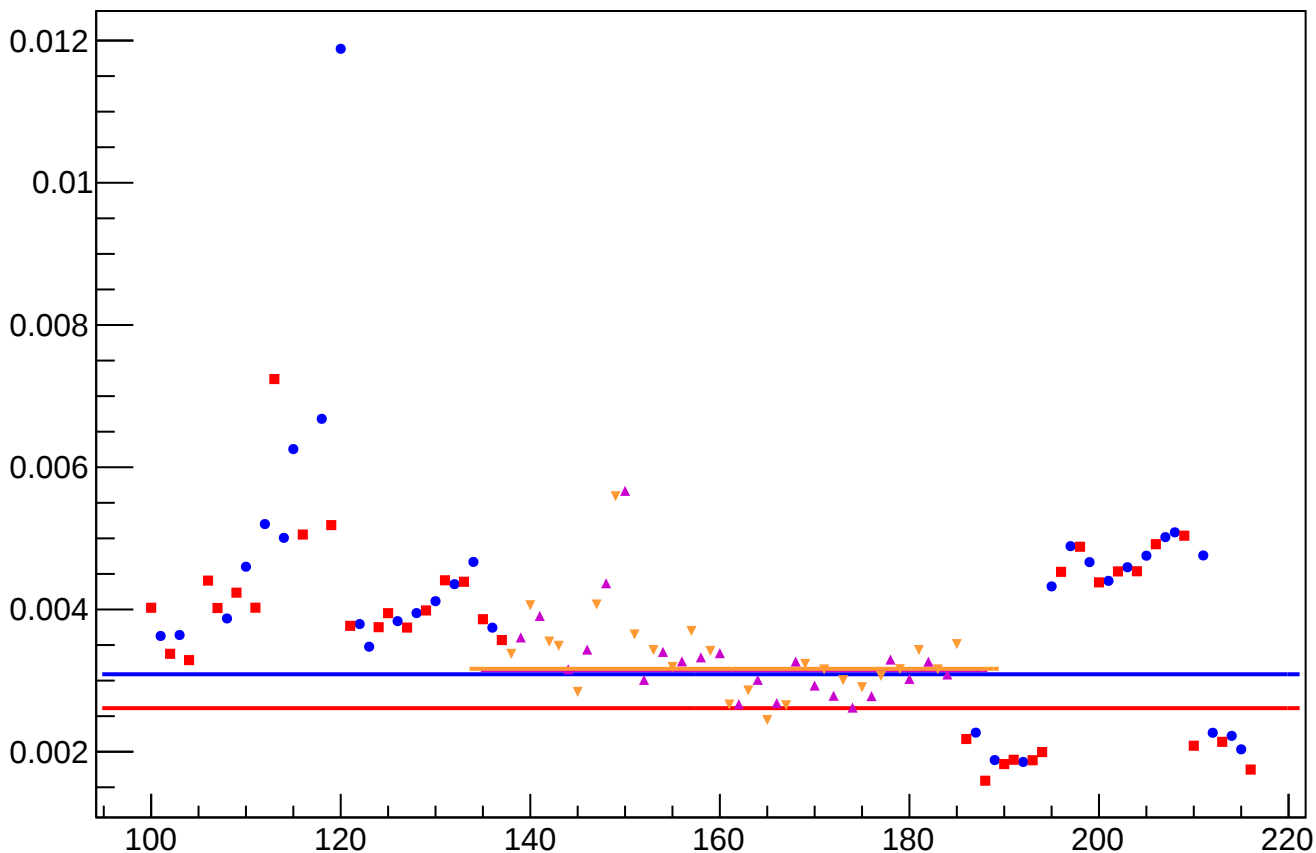
All: 0.004+/-0.000 χ^2/NDF : 12790248.7/114

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Left: 0.565 +/- 0.000 χ^2/NDF : 87378176036.1/47
 Right: -0.383 +/- 0.000 χ^2/NDF : 1023479845076.0/6
 In: 0.154 +/- 0.000 χ^2/NDF : 1047717150385.1/54
 Out: 0.002 +/- 0.000 χ^2/NDF : 1513506406032.4/59
 All: 0.071 +/- 0.000 χ^2/NDF : 2599061820000.0

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4528650.2/31

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5342205.5/34

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

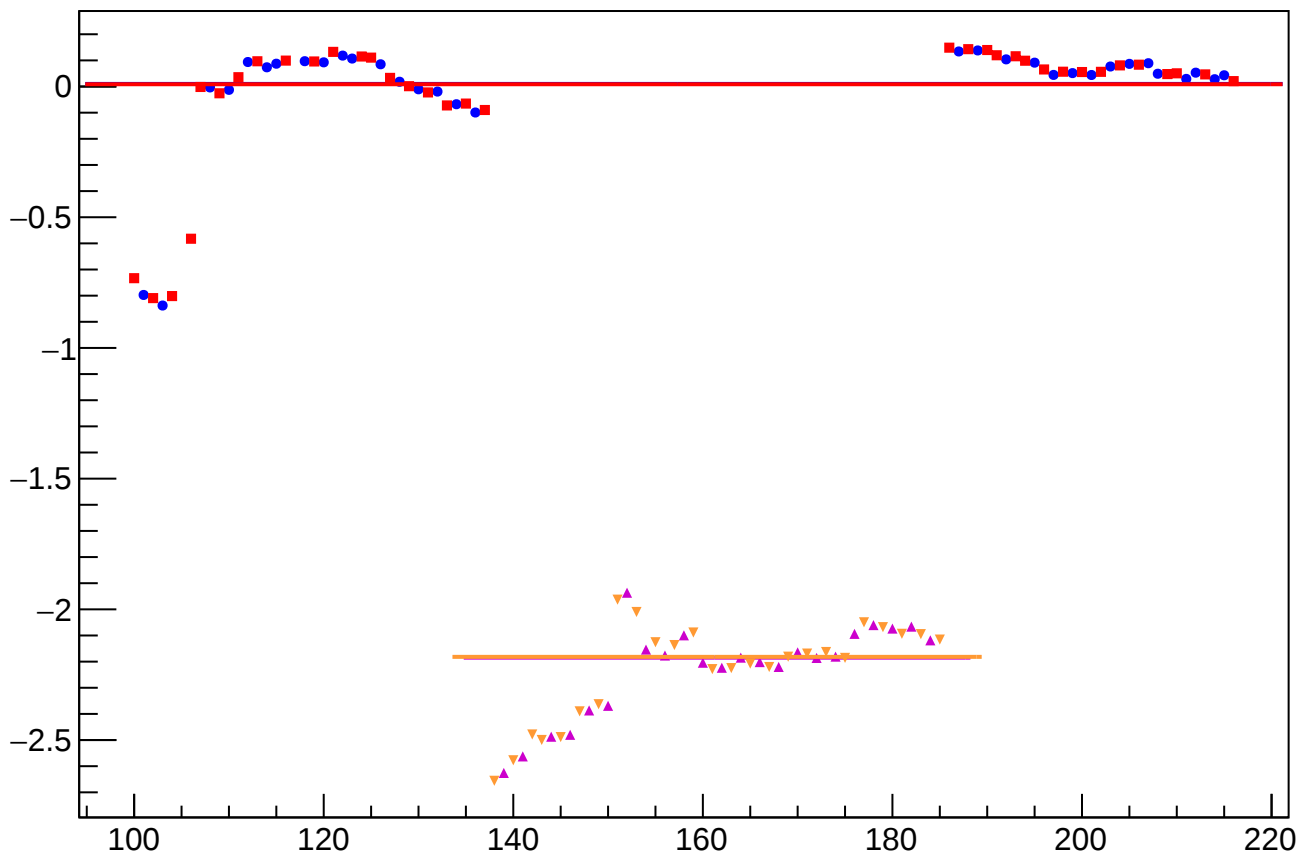
Right: 0.003+/-0.000 χ^2/NDF : 10253564.3/66

In: 0.003+/-0.000 χ^2/NDF : 5249957.9/54

Out: 0.003+/-0.000 χ^2/NDF : 6636140.2/59

All: 0.003+/-0.000 χ^2/NDF : 12106879.9/114

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 5917460731.5/31

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF:4008829567.0/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 6984183011.6/34

Left In: -2.185 $\pm$ 0.000 χ^2 /NDF:3372742534.3/22

Left: -2.183 $\pm$ 0.000 χ^2 /NDF: 7382310821.5/47

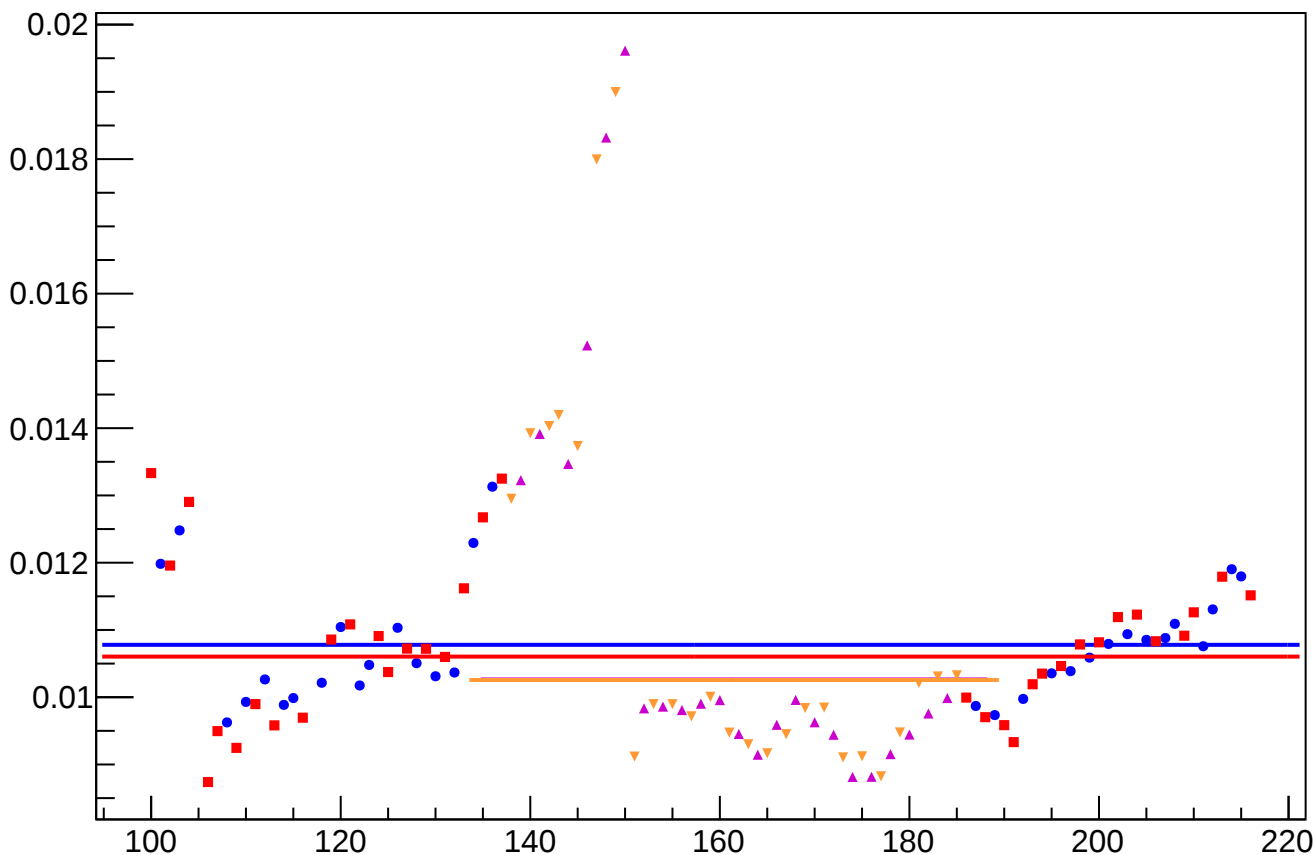
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 12901751420.0/66

In: -1.121 $\pm$ 0.000 χ^2 /NDF:376859821163.5/54

Out: -1.122 $\pm$ 0.000 χ^2 /NDF:400539675626.4/59

All: -1.121 $\pm$ 0.000 χ^2 /NDF: 777399662411.7

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 : 255503.3/34

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

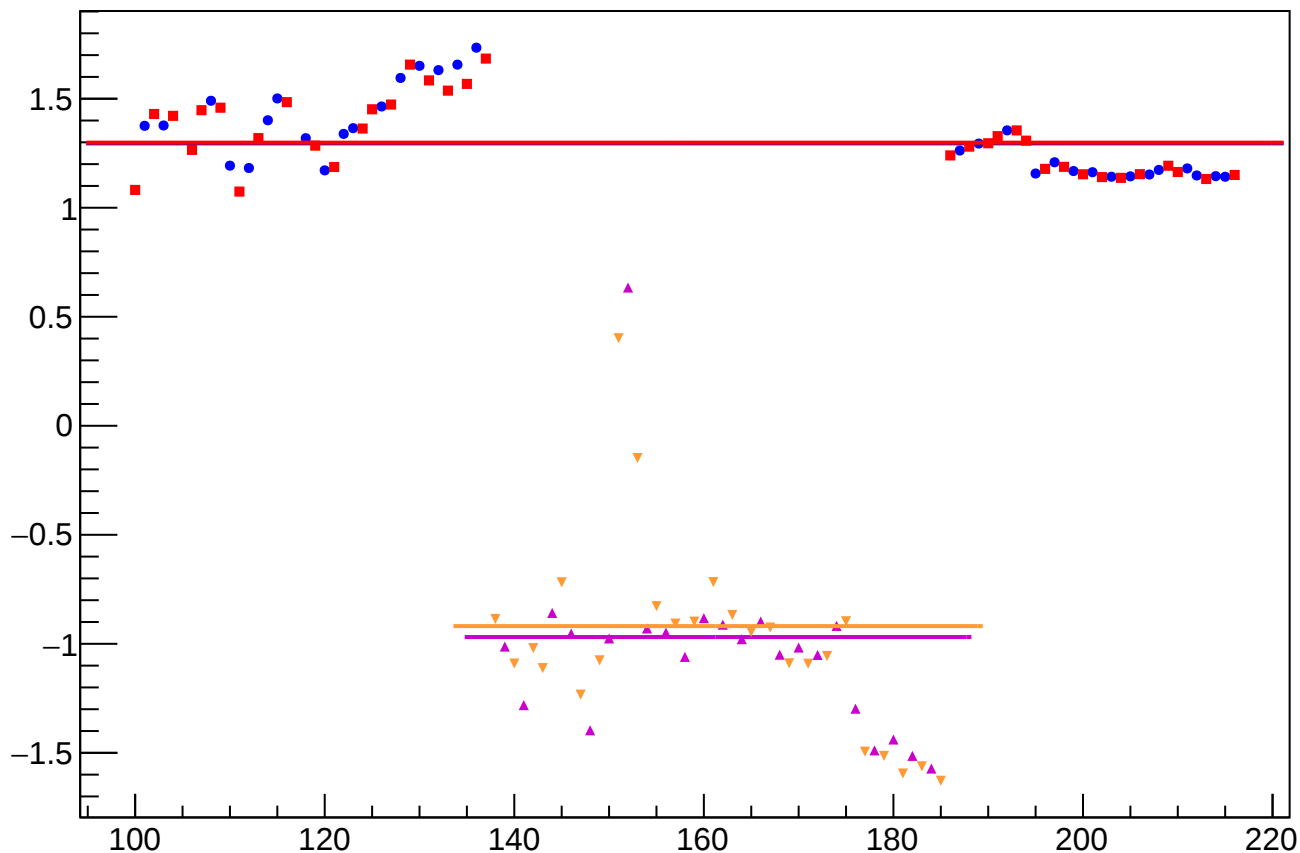
Right: 0.011+/-0.000 χ^2/NDF : 443663.9/66

In: 0.011+/-0.000 χ^2/NDF :1564170.6/54

Out: 0.010+/-0.000 χ^2/NDF :1545781.8/59

All: 0.010+/-0.000 χ^2/NDF : 3112474.2/114

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: 1.299 $\pm$ 0.000 χ^2 /NDF: 6711772272.0/34

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

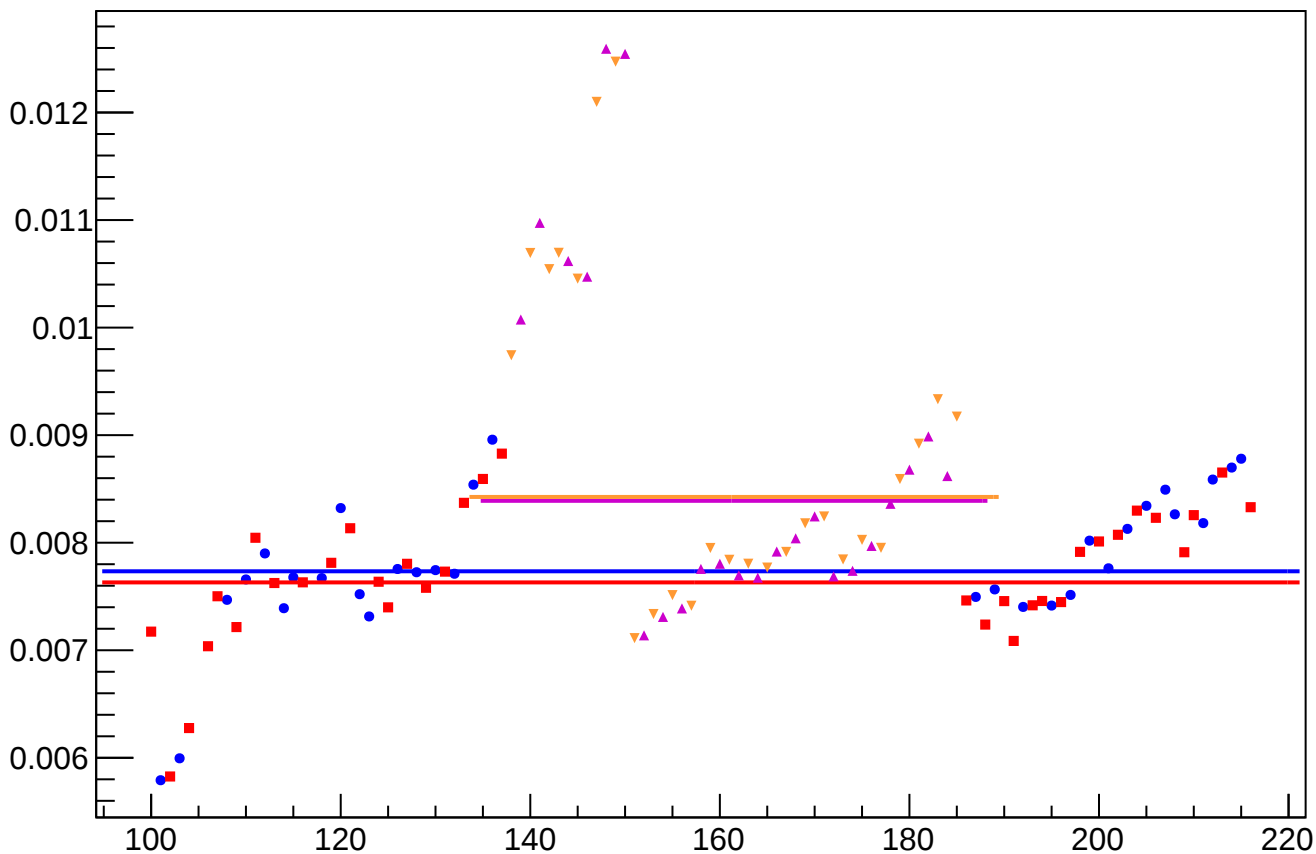
Right: 1.297 $\pm$ 0.000 χ^2 /NDF: 15284681793.2/66

In: 0.264 $\pm$ 0.000 χ^2 /NDF: 731960844637.0/54

Out: 0.294 $\pm$ 0.000 χ^2 /NDF: 740379139634.1/59

All: 0.279 $\pm$ 0.000 χ^2 /NDF: 1472581811759.

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 : 269388.9/34

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

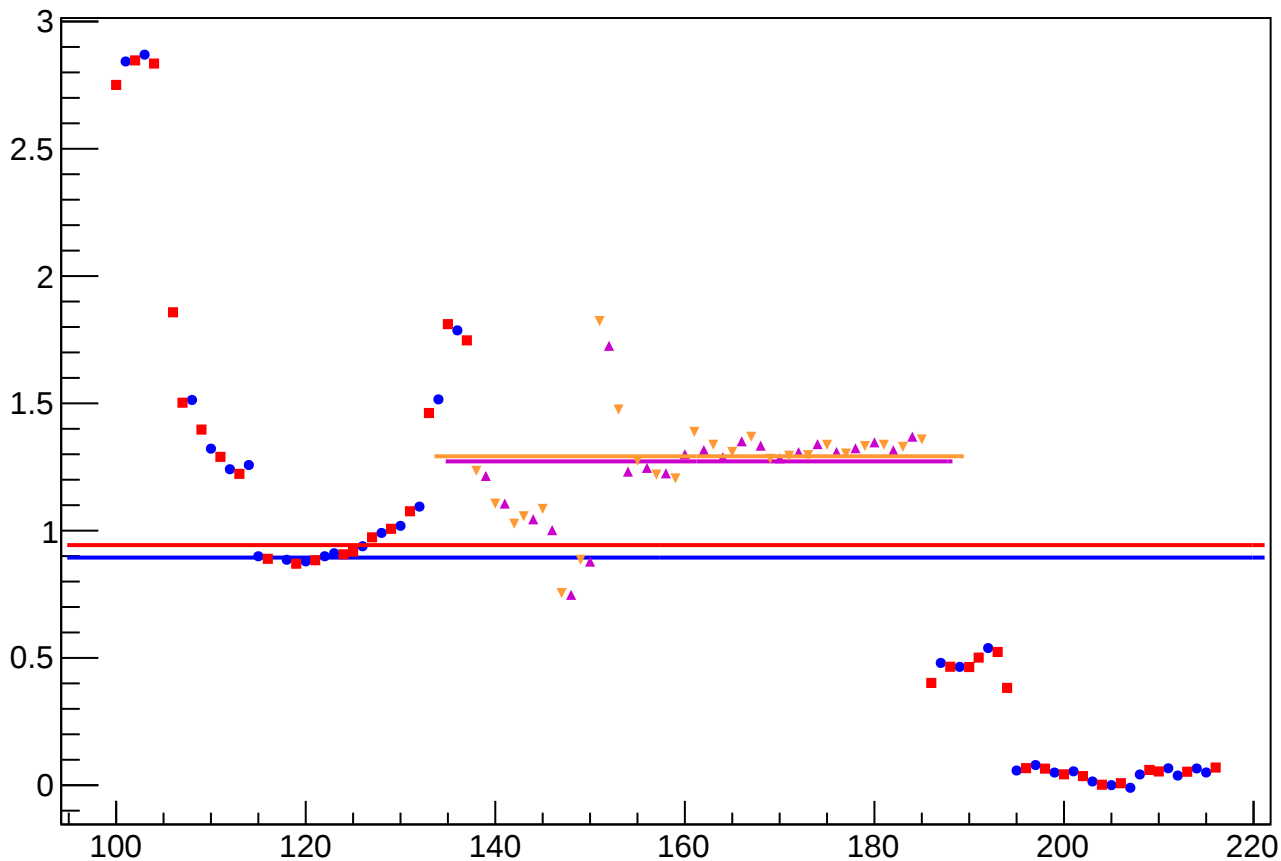
Right: 0.008+/-0.000 χ^2/NDF : 635897.5/66

In: 0.008+/-0.000 χ^2/NDF : 1315217.7/54

Out: 0.008+/-0.000 χ^2/NDF : 1235899.6/59

All: 0.008+/-0.000 χ^2/NDF : 2552061.2/114

yield_bpm1i04X_mean vs Slug, Sign Corrected



Left: 1.282 +/- 0.000 χ^2/NDF : 16930321584.4/47

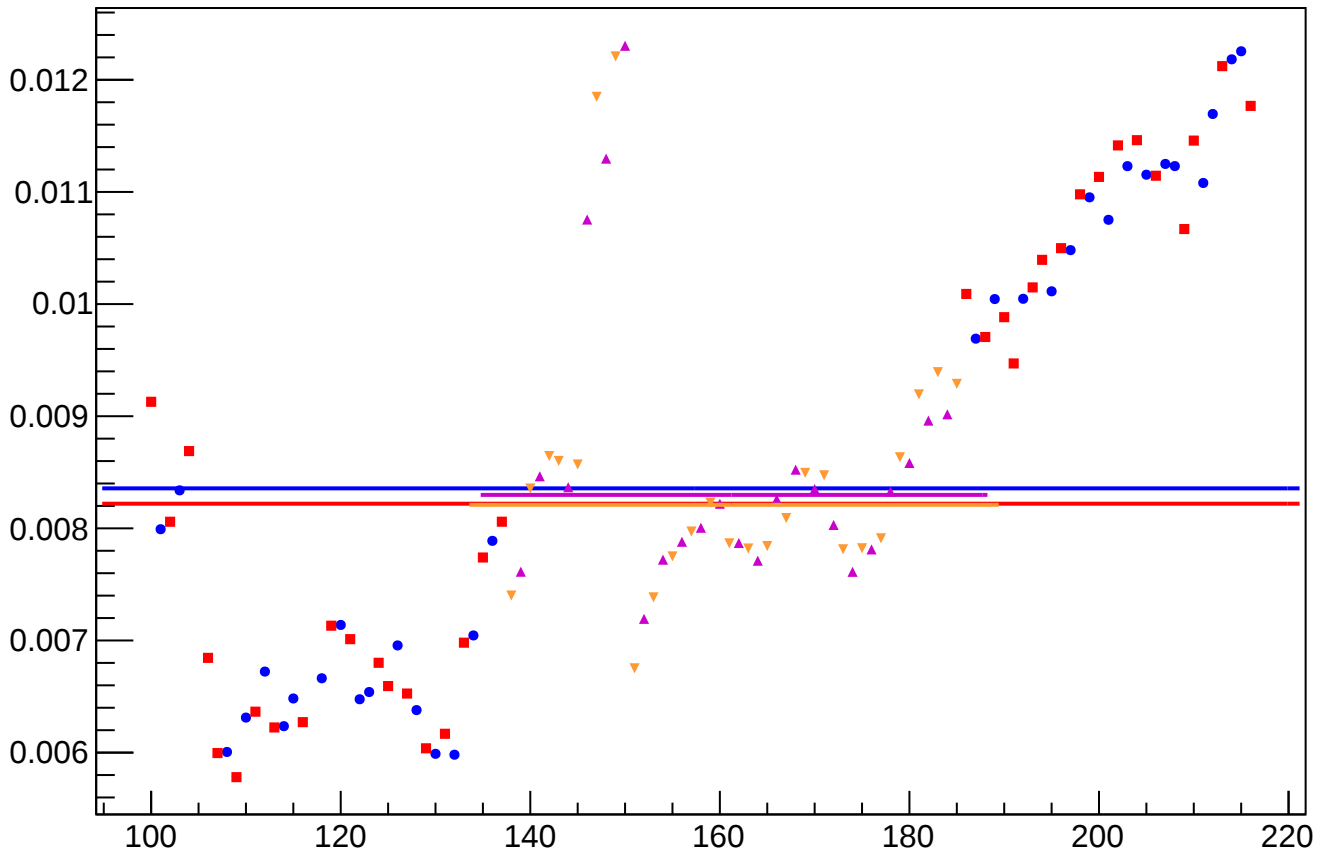
Right: 0.919 +/- 0.000 χ^2/NDF : 278831583439.3/66

In: 1.087 +/- 0.000 χ^2/NDF : 167065293887.5/54

Out: 1.123 +/- 0.000 χ^2/NDF : 160875176225.6/59

All: 1.106 +/- 0.000 χ^2/NDF : 328247936615.1

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 : 2185944.1/34

Left In: 0.008+/-0.000 χ^2/NDF :462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

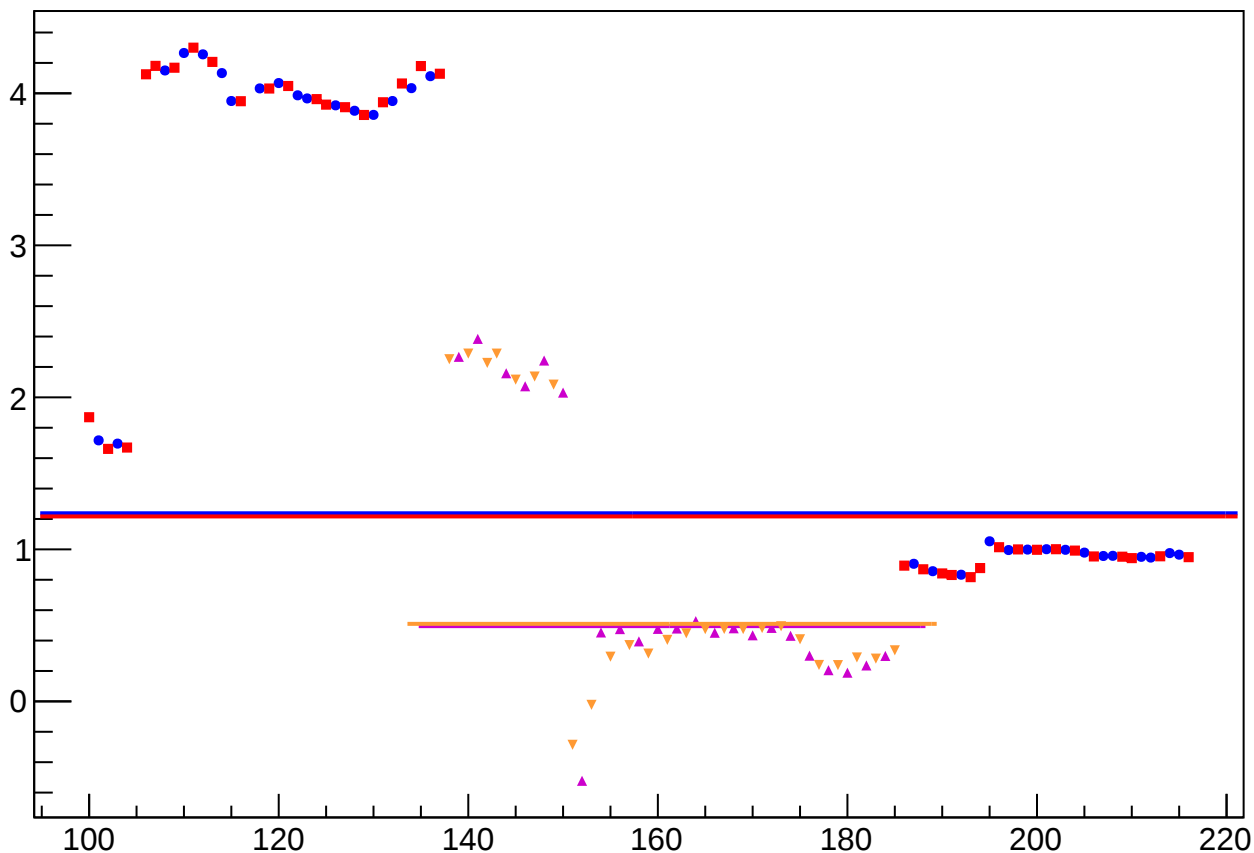
Right: 0.008+/-0.000 χ^2/NDF : 4328138.2/66

In: 0.008+/-0.000 χ^2/NDF :2600528.7/54

Out: 0.008+/-0.000 χ^2/NDF :2664835.3/59

All: 0.008+/-0.000 χ^2/NDF : 5271576.9/114

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.237+/-0.000

χ^2/NDF : 1533139010675.9/31

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

Right: 1.227+/-0.000

χ^2/NDF : 3257807897411.4/66

Left Out: 0.510+/-0.000

χ^2/NDF : 274818814912.4/24

In: 1.037+/-0.000

χ^2/NDF : 2107092364220.1/54

Right Out: 1.217+/-0.000

χ^2/NDF : 1724213080401.8/34

Out: 1.032+/-0.000

χ^2/NDF : 2285427707366.0/59

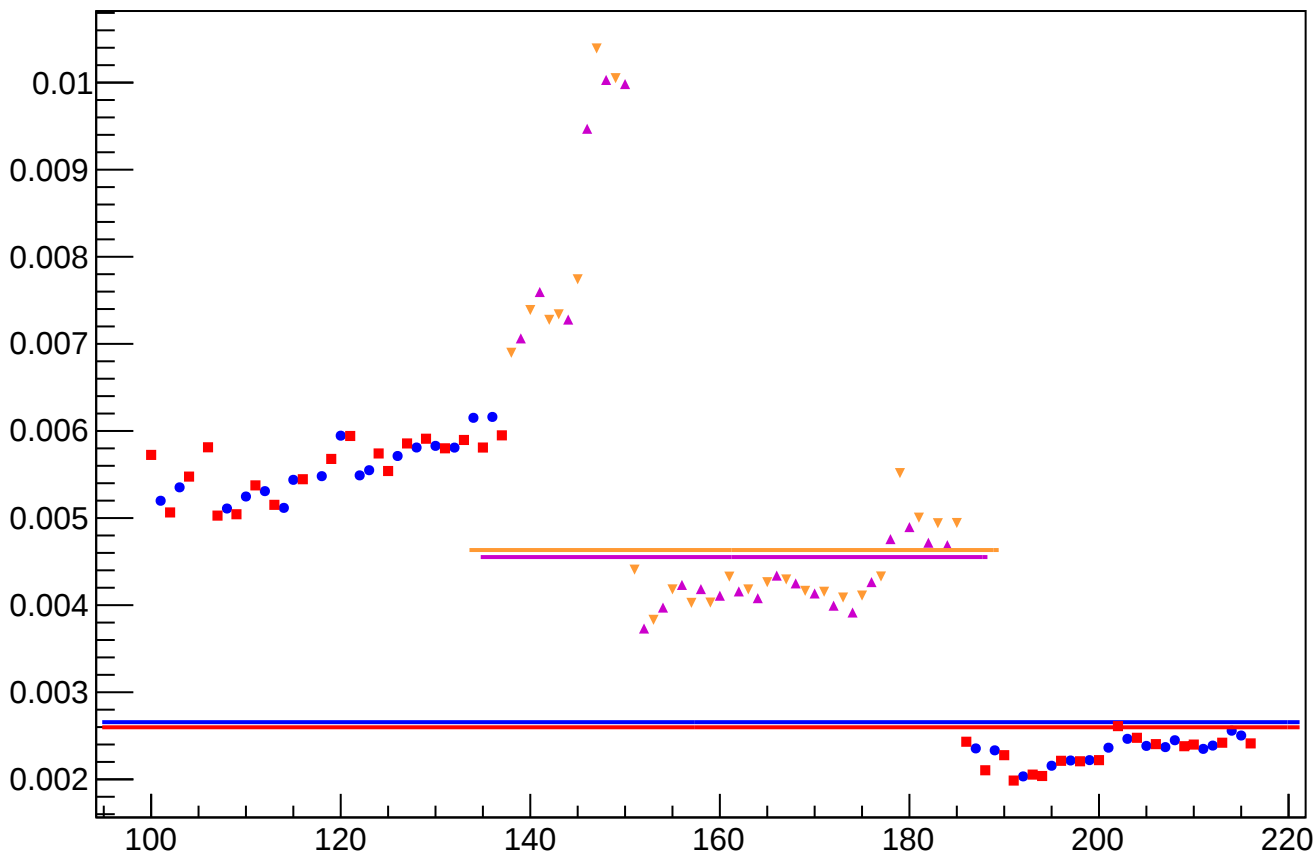
Left In: 0.495+/-0.000

χ^2/NDF : 268863202792.4/22

All: 1.034+/-0.000

χ^2/NDF : 4392563688607.0/100

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4190984.2/31

Left Out: 0.005+/-0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4481671.1/34

Left In: 0.005+/-0.000 χ^2/NDF : 2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

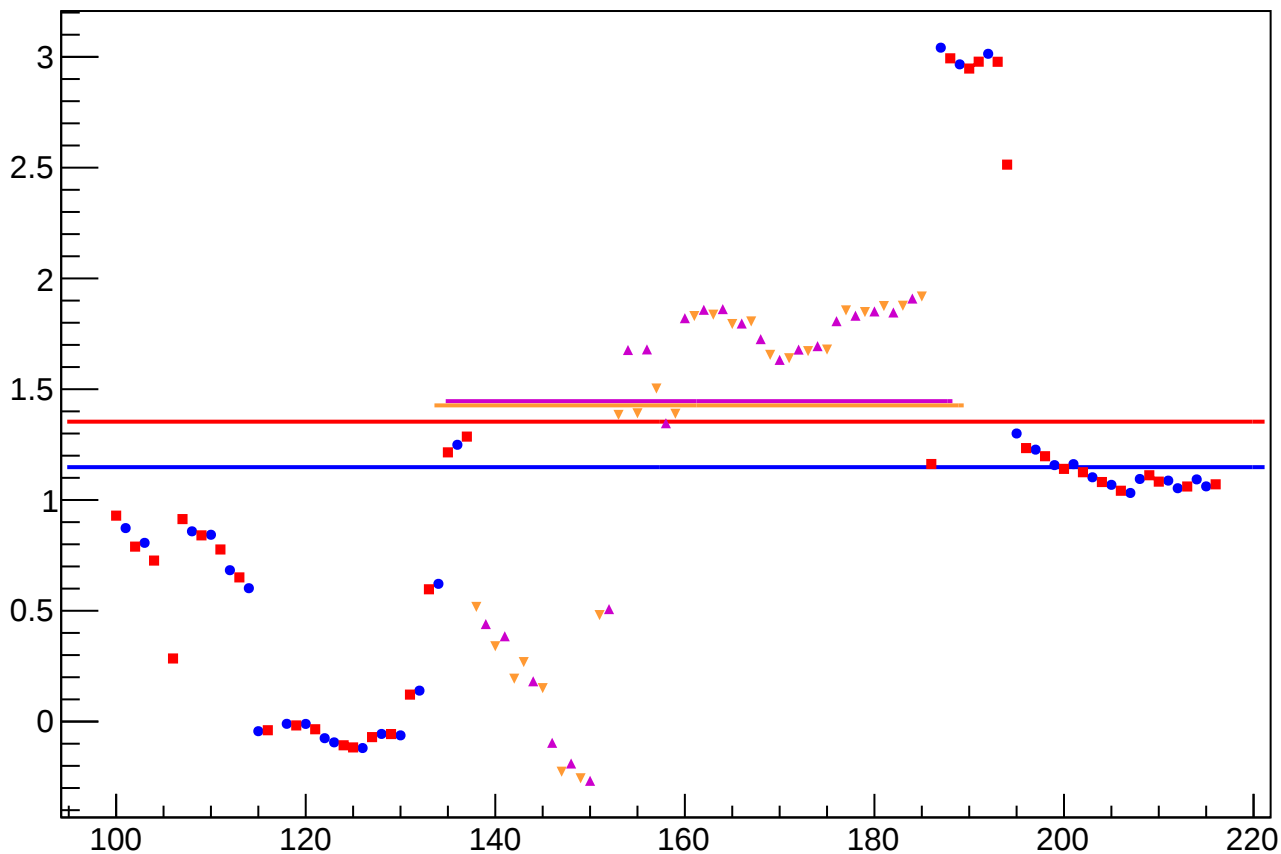
Right: 0.003+/-0.000 χ^2/NDF : 8679994.3/66

In: 0.003+/-0.000 χ^2/NDF : 10407505.5/54

Out: 0.003+/-0.000 χ^2/NDF : 11347041.3/59

All: 0.003+/-0.000 χ^2/NDF : 21758580.8/114

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: 1.353 $\pm$ 0.000 χ^2/NDF : 101469699723.4/34

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

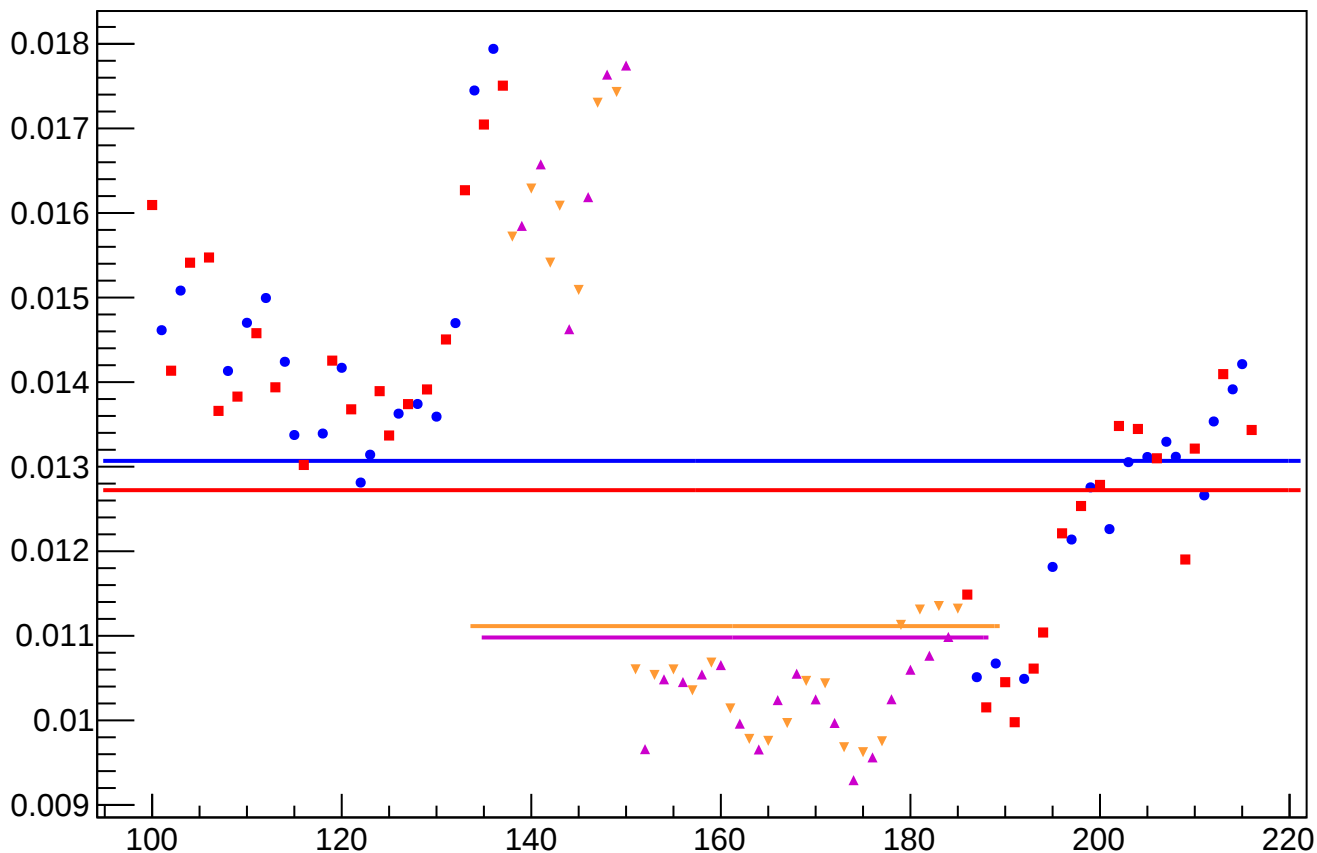
Right: 1.255 $\pm$ 0.000 χ^2/NDF : 176544785390.4/66

In: 1.321 $\pm$ 0.000 χ^2/NDF : 131773919734.7/54

Out: 1.395 $\pm$ 0.000 χ^2/NDF : 151790584422.1/59

All: 1.359 $\pm$ 0.000 χ^2/NDF : 284237130954.8

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 454872.1/31

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 587019.4/34

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

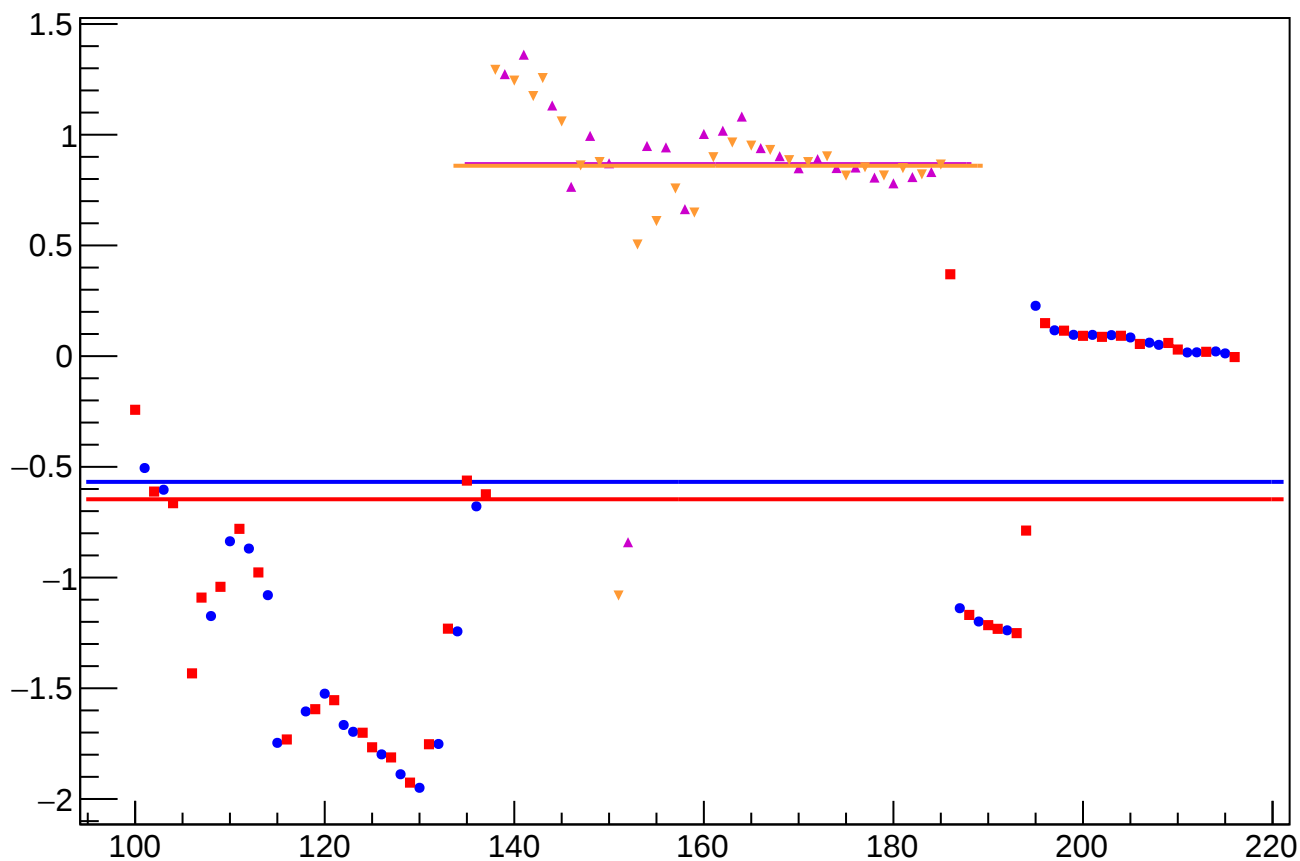
Right: 0.013+/-0.000 χ^2/NDF : 1054276.5/66

In: 0.012+/-0.000 χ^2/NDF :2222992.6/54

Out: 0.012+/-0.000 χ^2/NDF :2130366.1/59

All: 0.012+/-0.000 χ^2/NDF : 4354012.2/114

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.568+/-0.000 χ^2/NDF : 199281457721.3/31

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.646+/-0.000 χ^2/NDF : 185194980197.6/34

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

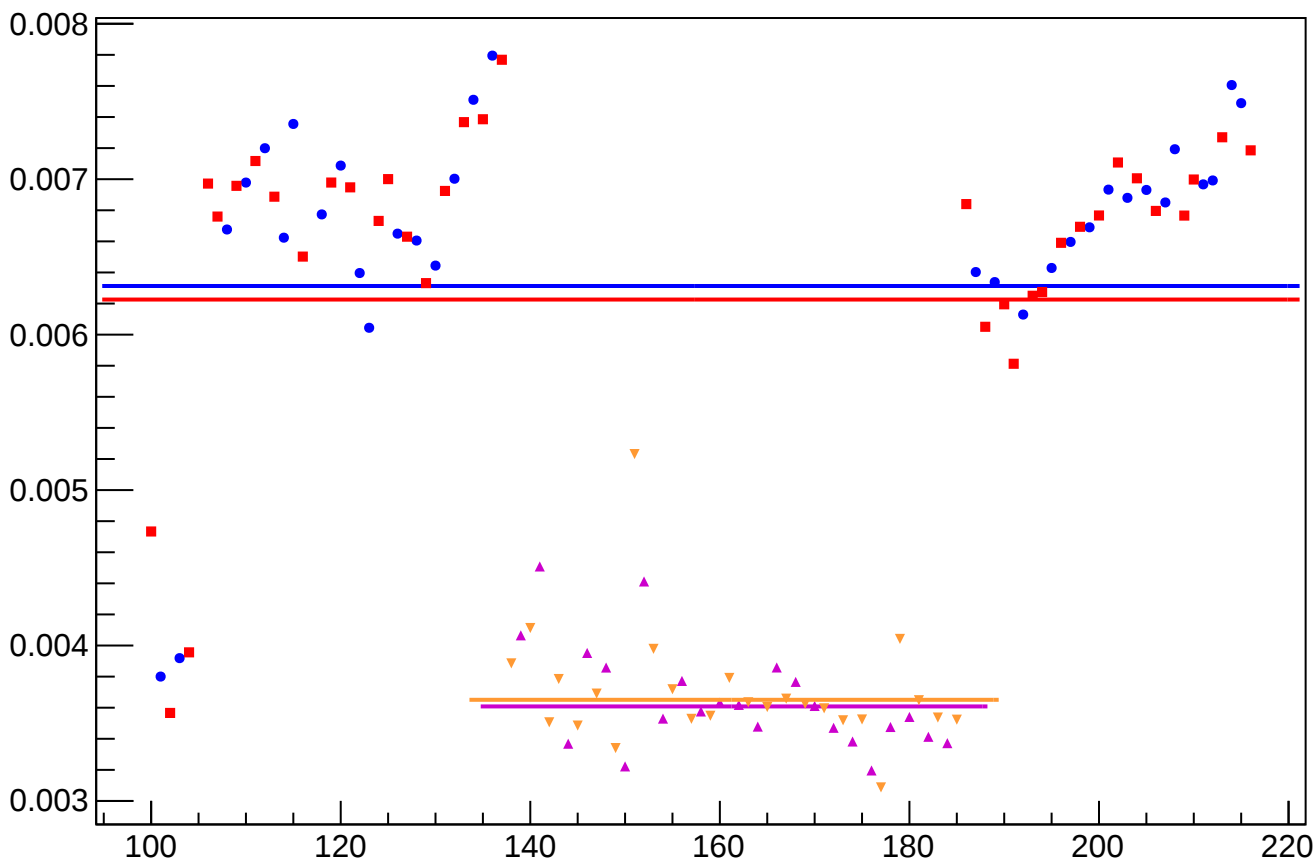
Right: -0.608+/-0.000 χ^2/NDF : 385752910941.6/66

In: 0.508+/-0.000 χ^2/NDF : 968637304361.3/54

Out: 0.478+/-0.000 χ^2/NDF : 1031785088704.6/59

All: 0.493+/-0.000 χ^2/NDF : 2001138601122.0

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 : 1176360.4/34

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

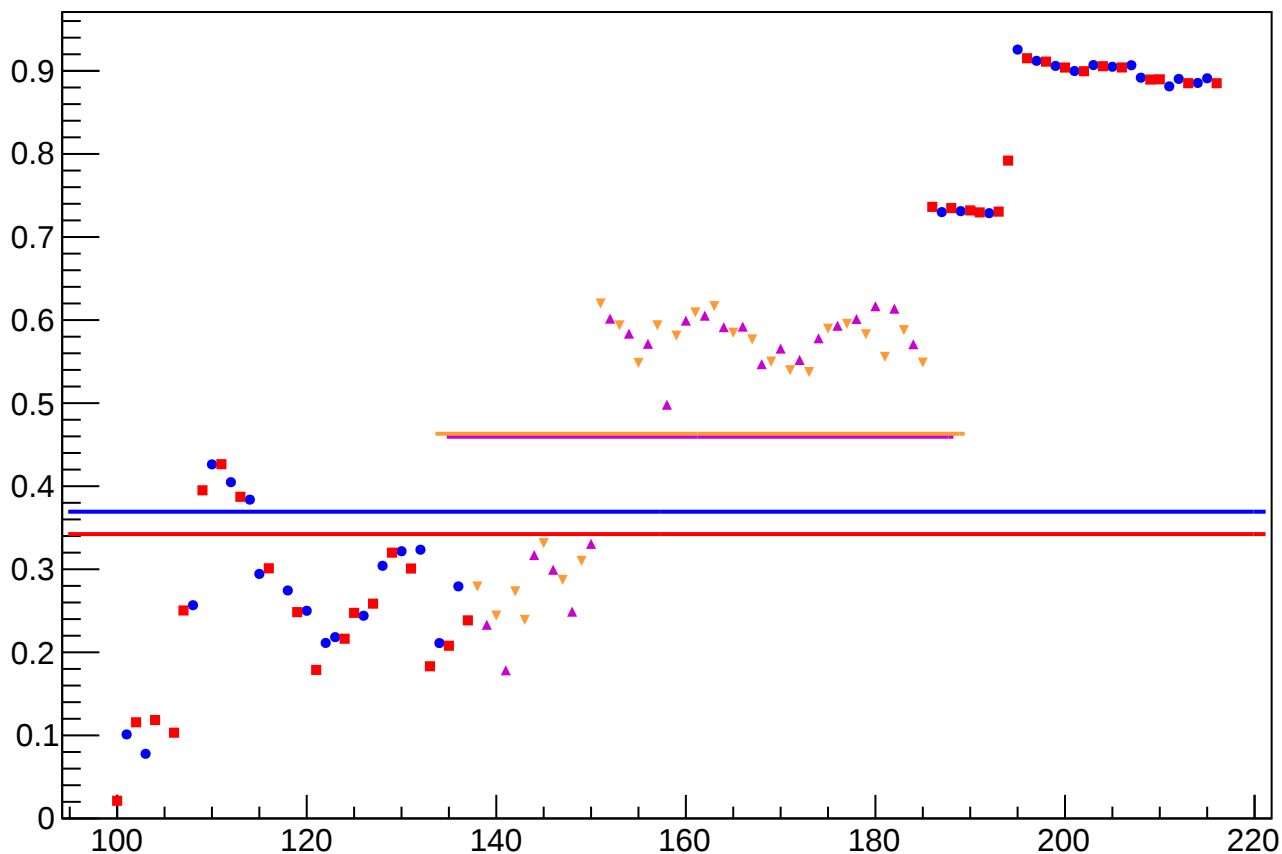
Right: 0.006+/-0.000 χ^2/NDF : 2319464.9/66

In: 0.004+/-0.000 χ^2/NDF :5789609.4/54

Out: 0.004+/-0.000 χ^2/NDF :5623297.6/59

All: 0.004+/-0.000 χ^2/NDF : 11413419.4/114

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.369 $\pm$ 0.000 χ^2 /NDF: 194529685053.0/31

Left Out: 0.463 $\pm$ 0.000 χ^2 /NDF:102506270538.7/24

Right Out: 0.342 $\pm$ 0.000 χ^2 /NDF: 201884894773.5/34

Left In: 0.460 $\pm$ 0.000 χ^2 /NDF:104559088628.4/22

Left: 0.461 $\pm$ 0.000 χ^2 /NDF: 207093695005.5/47

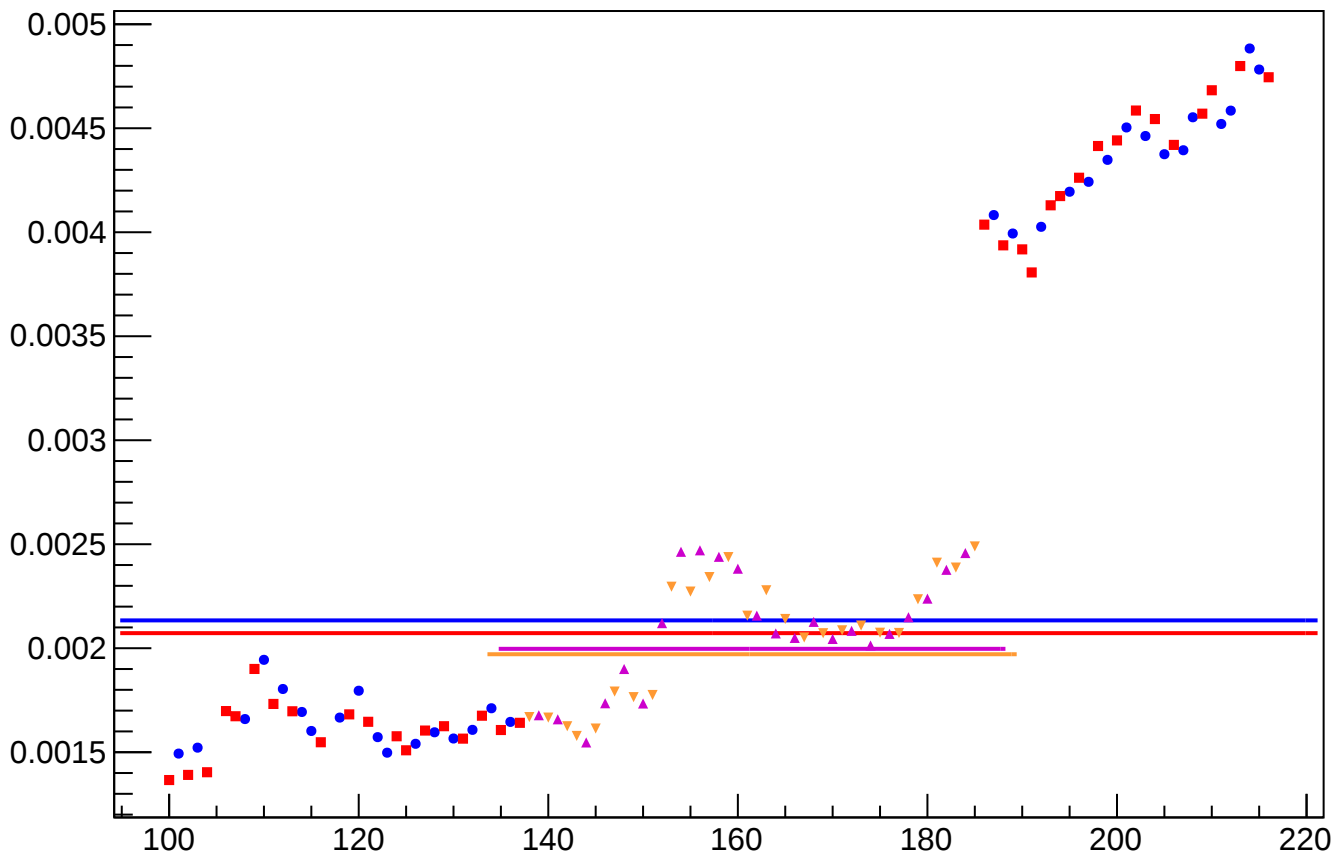
Right: 0.355 $\pm$ 0.000 χ^2 /NDF: 397550705450.1/66

In: 0.422 $\pm$ 0.000 χ^2 /NDF:313310292713.1/54

Out: 0.413 $\pm$ 0.000 χ^2 /NDF:332343466109.0/59

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 645976287081.2

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 : 7242919.5/34

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

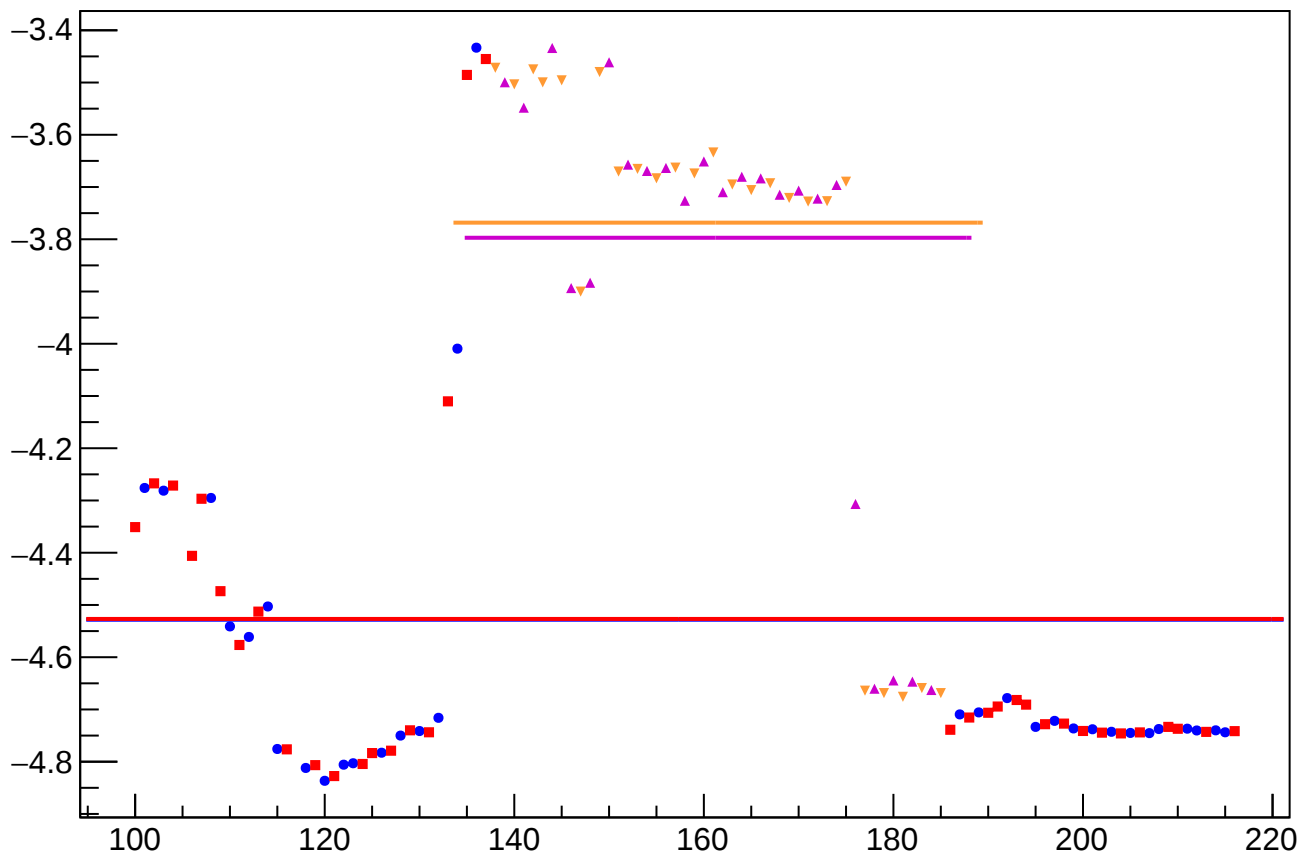
Right: 0.002+/-0.000 χ^2/NDF : 14229794.1/66

In: 0.002+/-0.000 χ^2/NDF : 7706802.4/54

Out: 0.002+/-0.000 χ^2/NDF : 8012535.4/59

All: 0.002+/-0.000 χ^2/NDF : 15731680.2/114

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: -4.527+/-0.000 χ^2/NDF : 381211055314.7/34

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

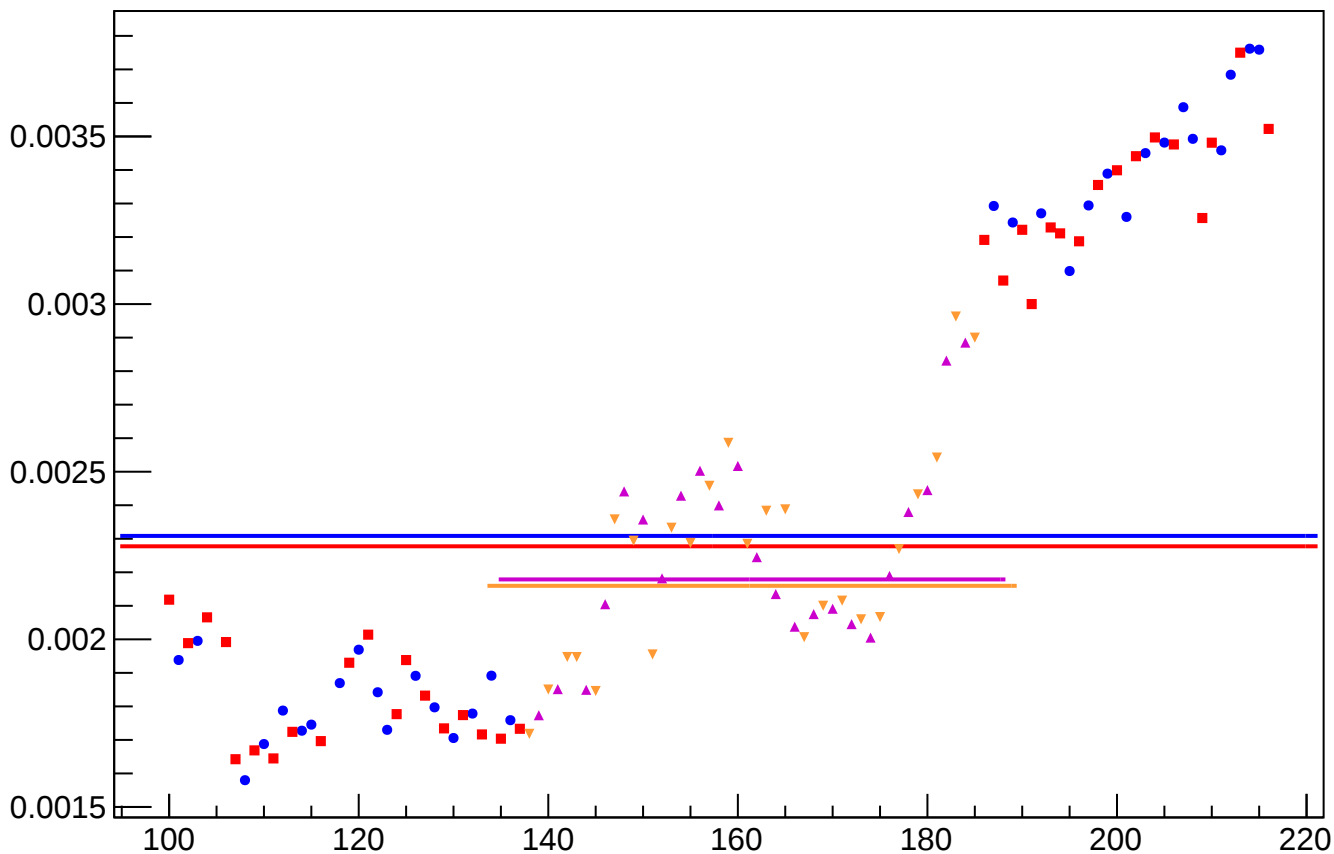
Right: -4.527+/-0.000 χ^2/NDF : 827881151949.2/66

In: -4.126+/-0.000 χ^2/NDF : 1744137638469.3/54

Out: -4.108+/-0.000 χ^2/NDF : 1880299843322.0/59

All: -4.116+/-0.000 χ^2/NDF : 3625493075750

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 : 3262649.5/34

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

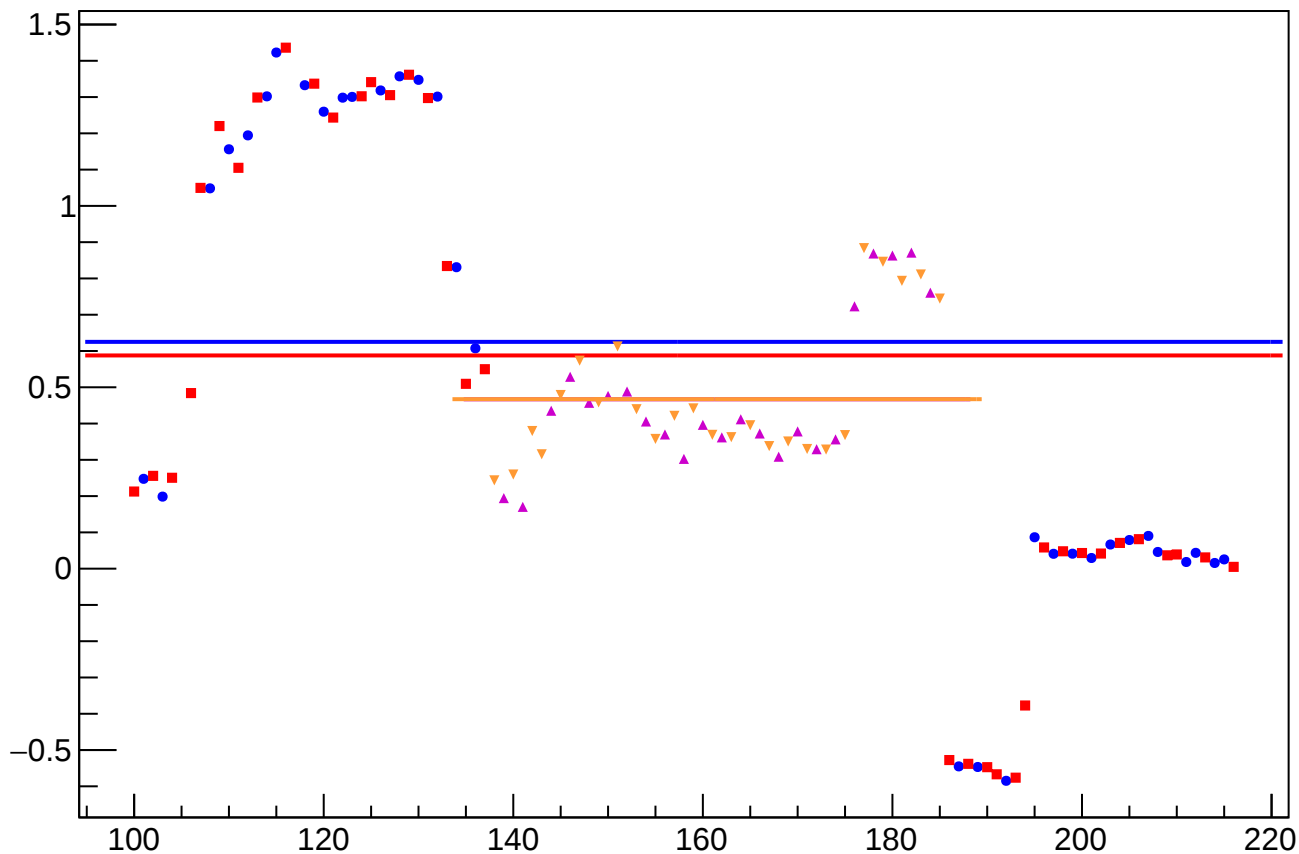
Right: 0.002+/-0.000 χ^2/NDF : 6630384.9/66

In: 0.002+/-0.000 χ^2/NDF :3881901.8/54

Out: 0.002+/-0.000 χ^2/NDF :3857918.3/59

All: 0.002+/-0.000 χ^2/NDF : 7743866.7/114

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.625 $\pm$ 0.000 χ^2 /NDF: 84950563791.8/31

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.588 $\pm$ 0.000 χ^2 /NDF: 102226580485.9/34

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

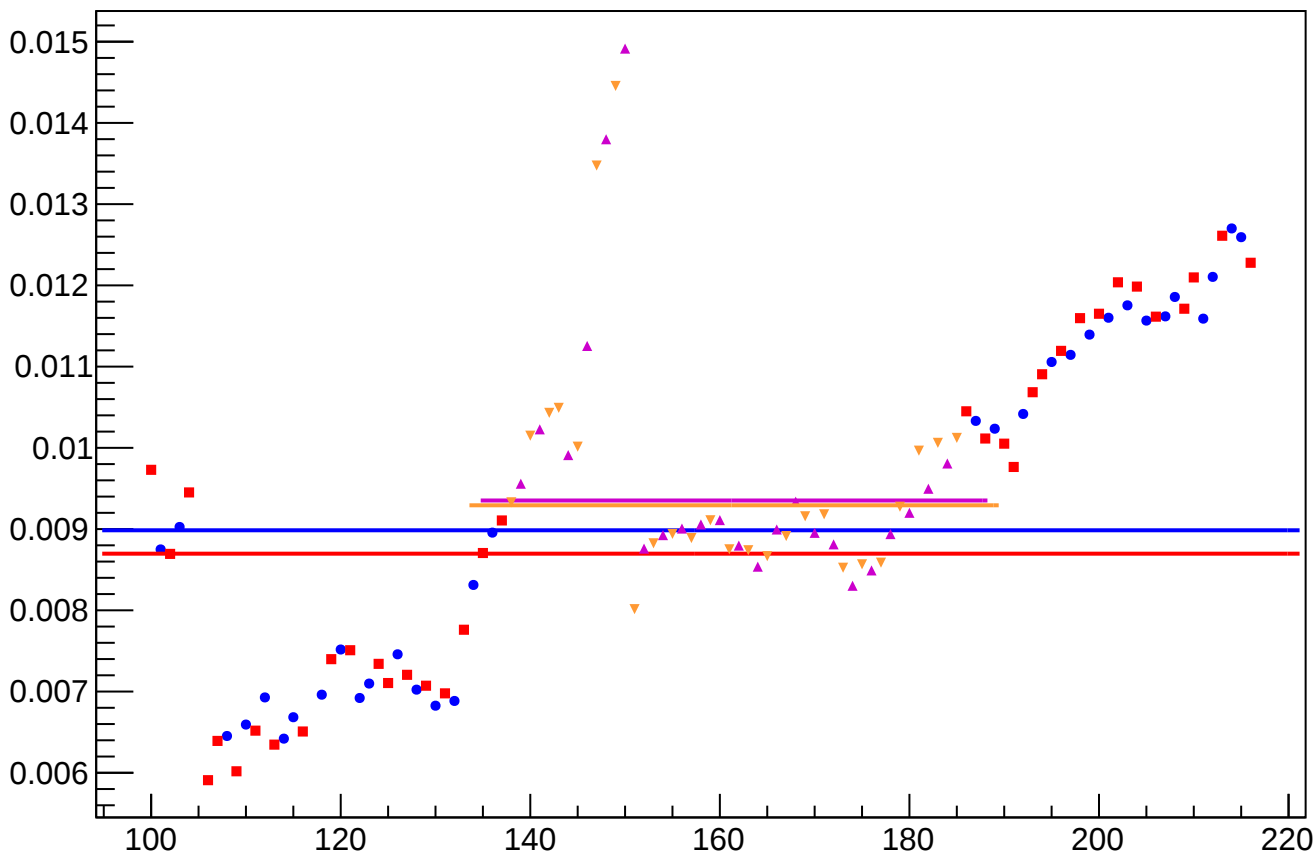
Right: 0.606 $\pm$ 0.000 χ^2 /NDF: 187325609150.5/66

In: 0.548 $\pm$ 0.000 χ^2 /NDF: 95475425499.0/54

Out: 0.529 $\pm$ 0.000 χ^2 /NDF: 111147423913.4/59

All: 0.538 $\pm$ 0.000 χ^2 /NDF: 206693422501.2

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 : 2178530.6/34

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

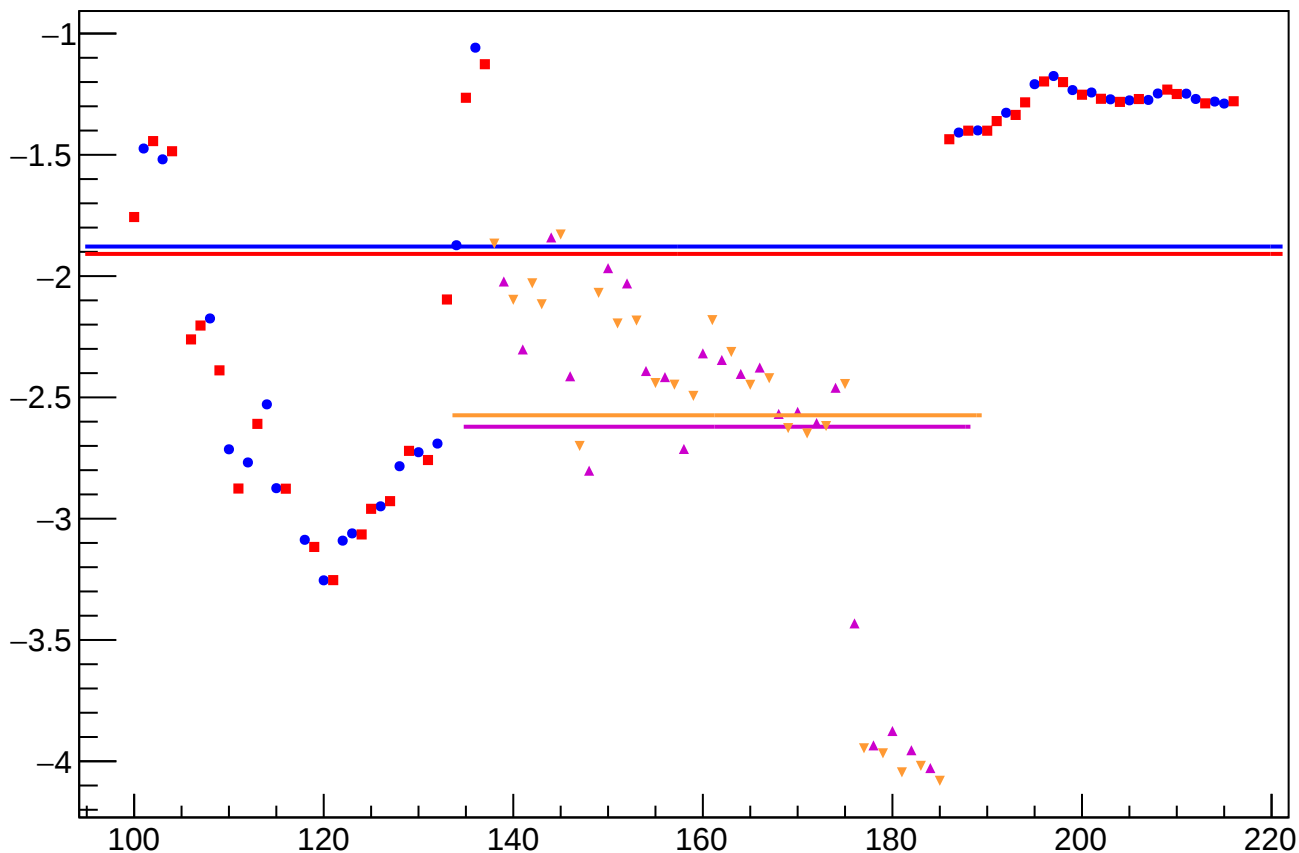
Right: 0.009+/-0.000 χ^2/NDF : 4085612.1/66

In: 0.009+/-0.000 χ^2/NDF :2473766.6/54

Out: 0.009+/-0.000 χ^2/NDF :2783051.1/59

All: 0.009+/-0.000 χ^2/NDF : 5269937.3/114

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: -1.908+/-0.000 χ^2/NDF : 132996167935.1/34

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

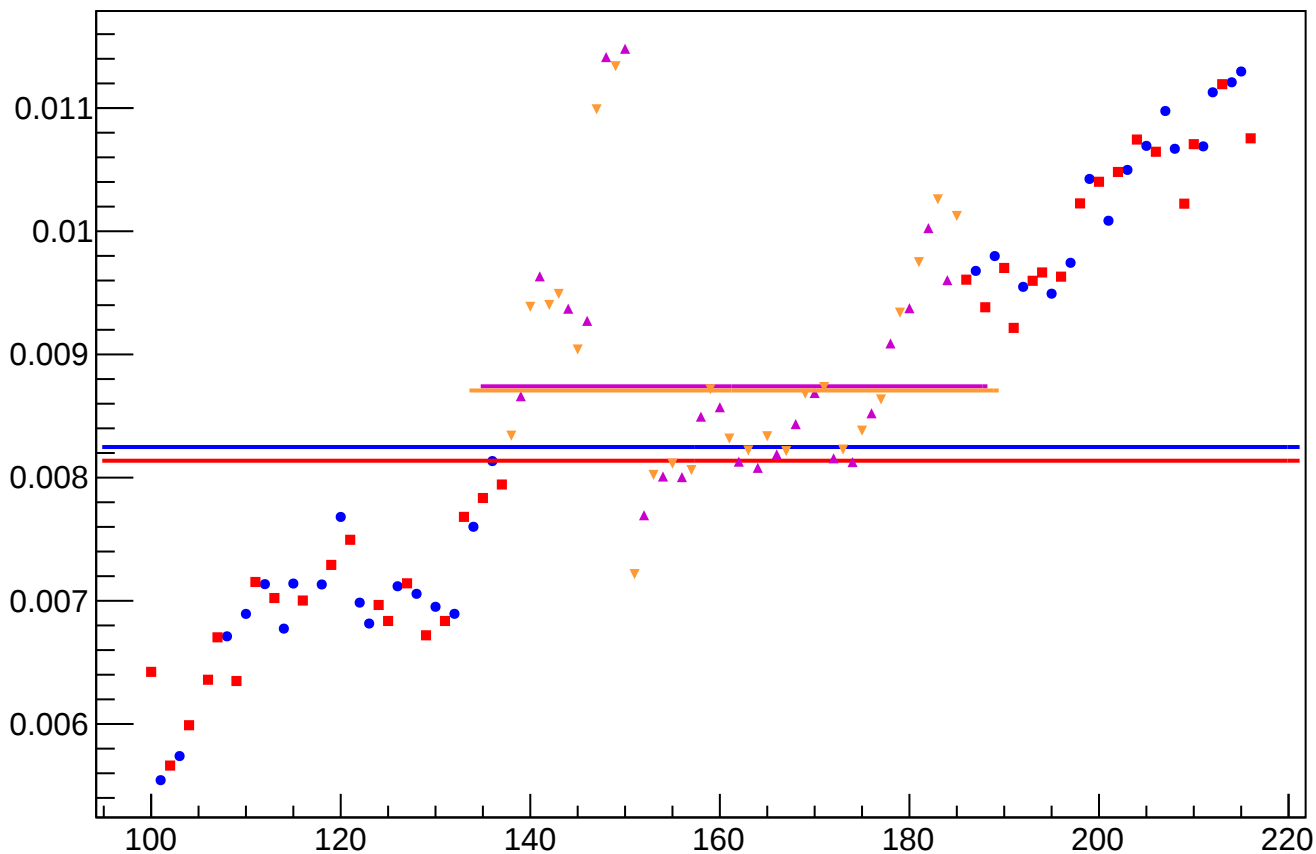
Right: -1.894+/-0.000 χ^2/NDF : 269646931643.8/66

In: -2.235+/-0.000 χ^2/NDF : 281667800454.8/54

Out: -2.228+/-0.000 χ^2/NDF : 287195466809.5/59

All: -2.232+/-0.000 χ^2/NDF : 568873675712.5

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 : 1594054.9/34

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

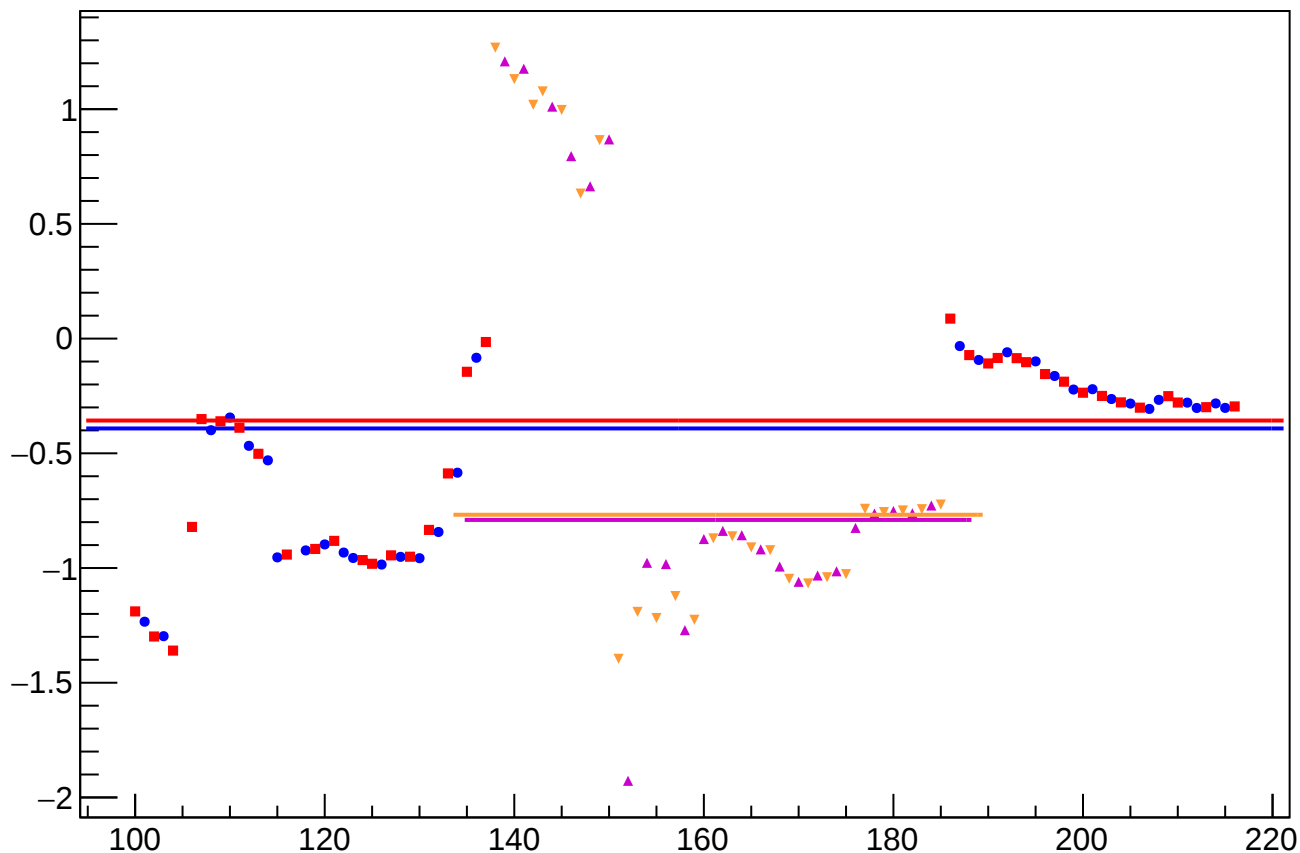
Right: 0.008+/-0.000 χ^2/NDF : 3329478.2/66

In: 0.008+/-0.000 χ^2/NDF : 2142641.2/54

Out: 0.008+/-0.000 χ^2/NDF : 2044268.3/59

All: 0.008+/-0.000 χ^2/NDF : 4189528.7/114

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.392 ± 0.000 $\chi^2/\text{NDF}: 23058993113.1/31$

Left Out: -0.768 ± 0.000 $\chi^2/\text{NDF}: 120774855982.9/24$

Right Out: -0.357 ± 0.000 $\chi^2/\text{NDF}: 25346722269.4/34$

Left In: -0.790 ± 0.000 $\chi^2/\text{NDF}: 123452478408.2/22$

Left: -0.779 ± 0.000 $\chi^2/\text{NDF}: 244297726249.8/47$

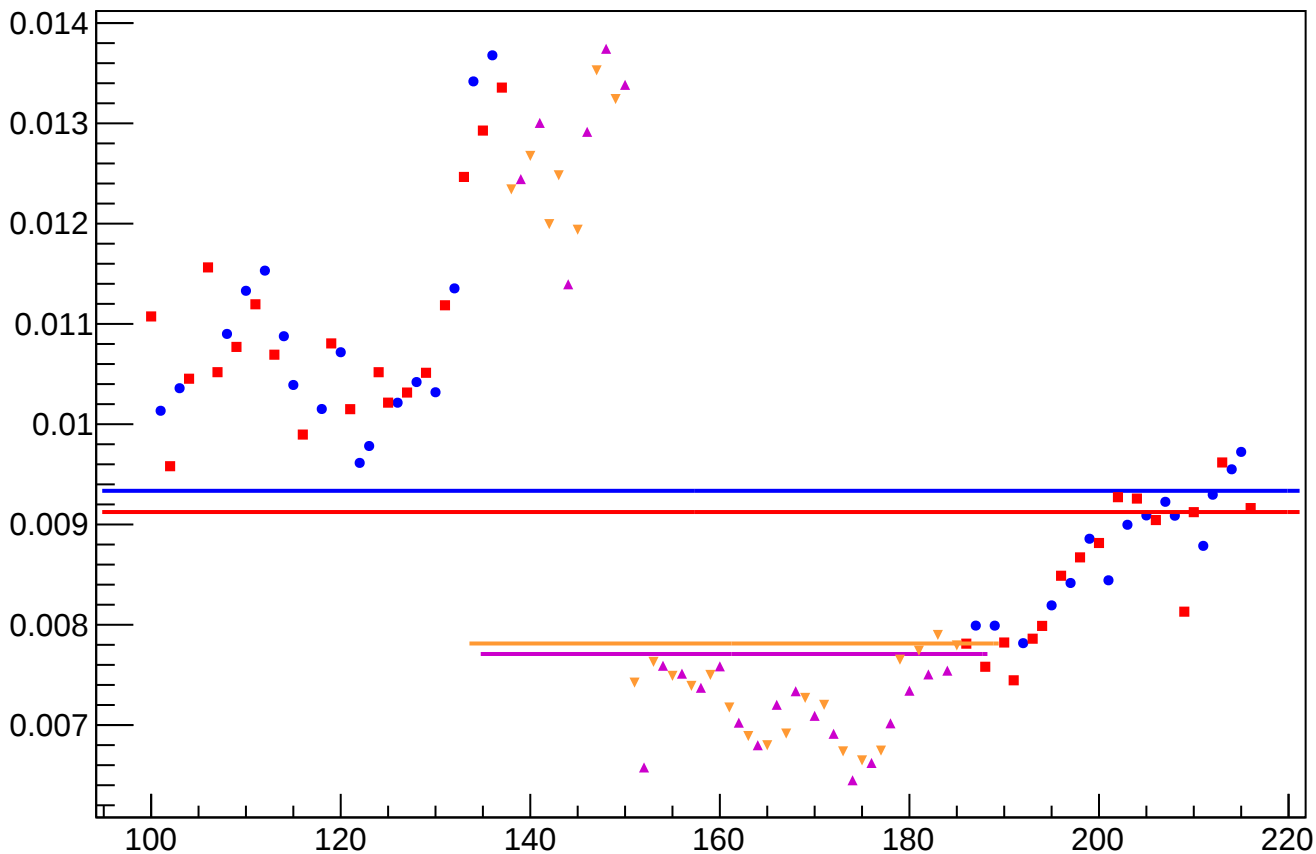
Right: -0.374 ± 0.000 $\chi^2/\text{NDF}: 48524685279.9/66$

In: -0.625 ± 0.000 $\chi^2/\text{NDF}: 164484268820.0/54$

Out: -0.594 ± 0.000 $\chi^2/\text{NDF}: 166256387105.3/59$

All: -0.609 ± 0.000 $\chi^2/\text{NDF}: 330968715358.3$

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 : 654324.7/34

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

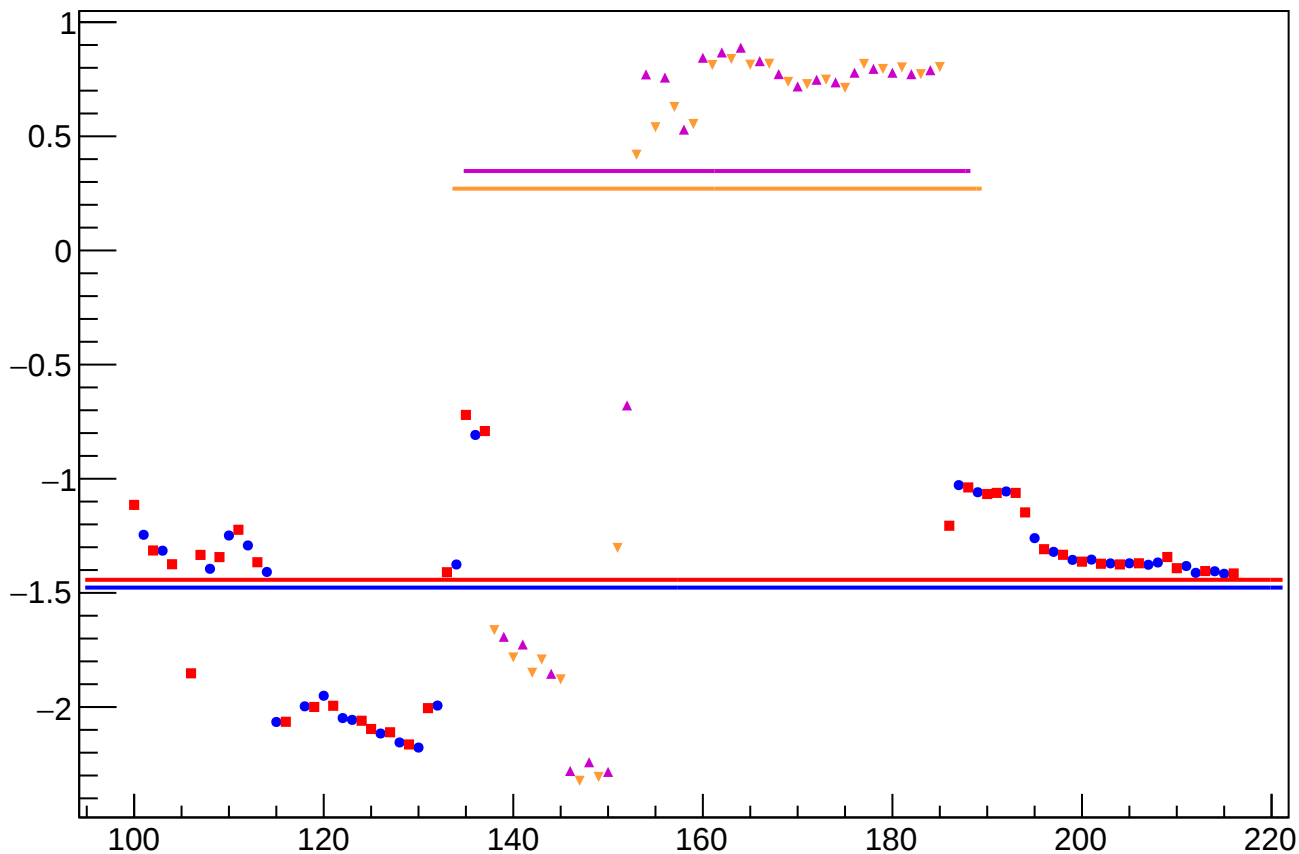
Right: 0.009+/-0.000 χ^2/NDF : 1213953.5/66

In: 0.008+/-0.000 χ^2/NDF :2895945.0/54

Out: 0.008+/-0.000 χ^2/NDF :2770724.9/59

All: 0.008+/-0.000 χ^2/NDF : 5666788.7/114

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.477 ± 0.000 $\chi^2/\text{NDF}: 175206639061.9/31$

Left Out: 0.271 ± 0.000 $\chi^2/\text{NDF}: 2583233987355.9/24$

Right Out: -1.443 ± 0.000 $\chi^2/\text{NDF}: 164568149306.0/34$

Left In: 0.348 ± 0.000 $\chi^2/\text{NDF}: 2274004426513.8/22$

Left: 0.308 ± 0.000 $\chi^2/\text{NDF}: 4864843200778.2/47$

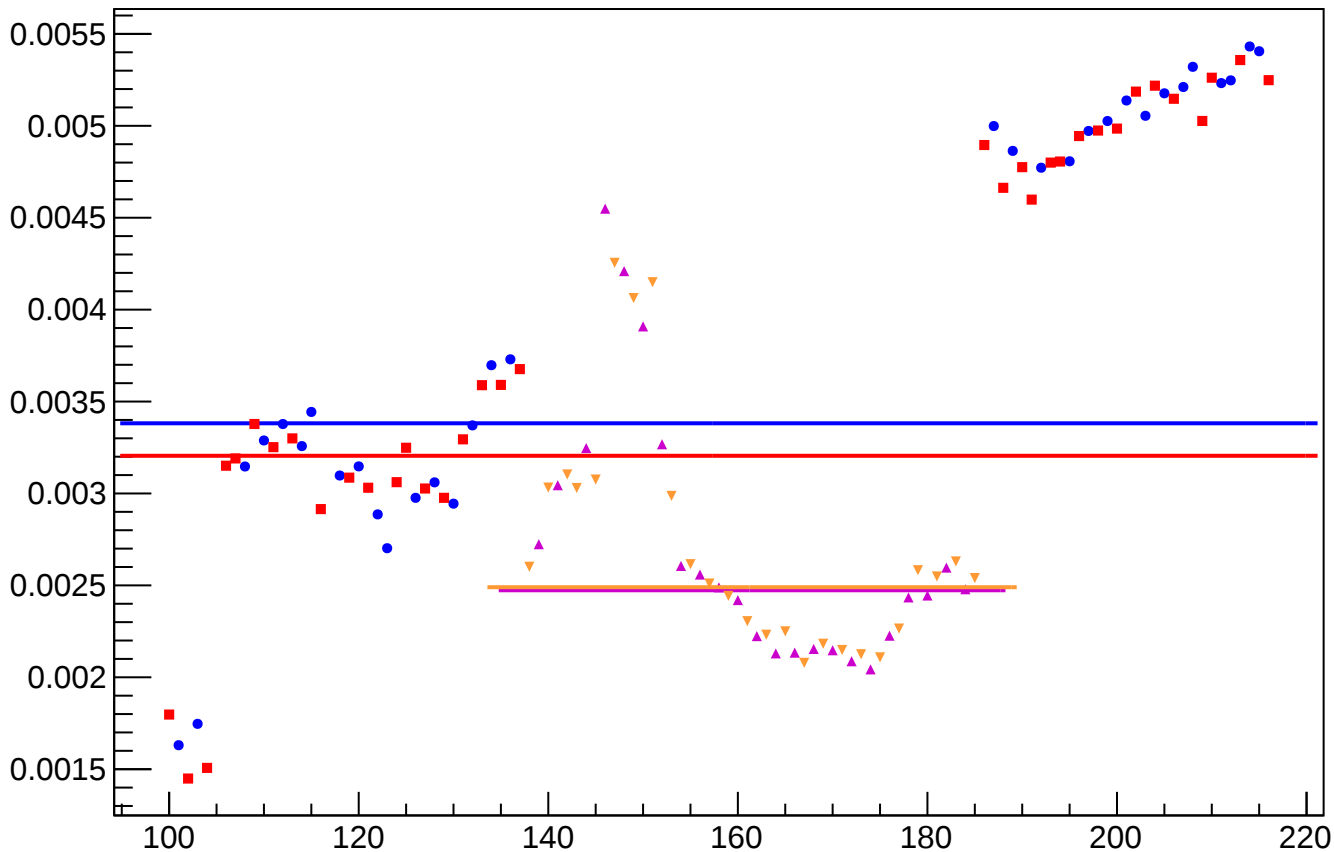
Right: -1.459 ± 0.000 $\chi^2/\text{NDF}: 340541597099.1/66$

In: -0.263 ± 0.000 $\chi^2/\text{NDF}: 5217395717679.0/54$

Out: -0.322 ± 0.000 $\chi^2/\text{NDF}: 5412659048547.4/59$

All: -0.294 ± 0.000 $\chi^2/\text{NDF}: 1063685492845$

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 : 5413227.0/34

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

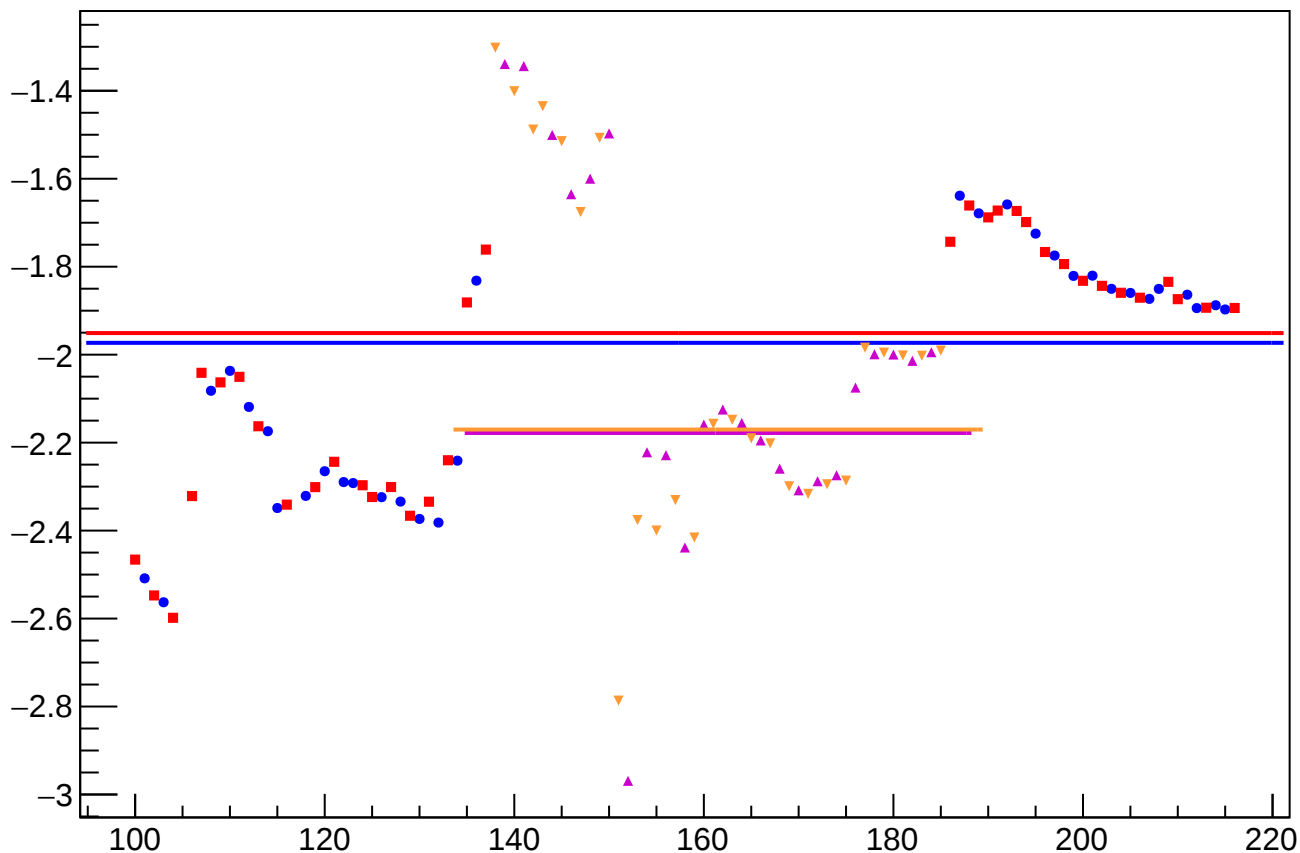
Right: 0.003+/-0.000 χ^2/NDF : 9961750.0/66

In: 0.003+/-0.000 χ^2/NDF :7014533.2/54

Out: 0.003+/-0.000 χ^2/NDF :7411604.5/59

All: 0.003+/-0.000 χ^2/NDF : 14432335.6/114

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: -1.951+/-0.000 χ^2/NDF : 35386469679.1/34

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

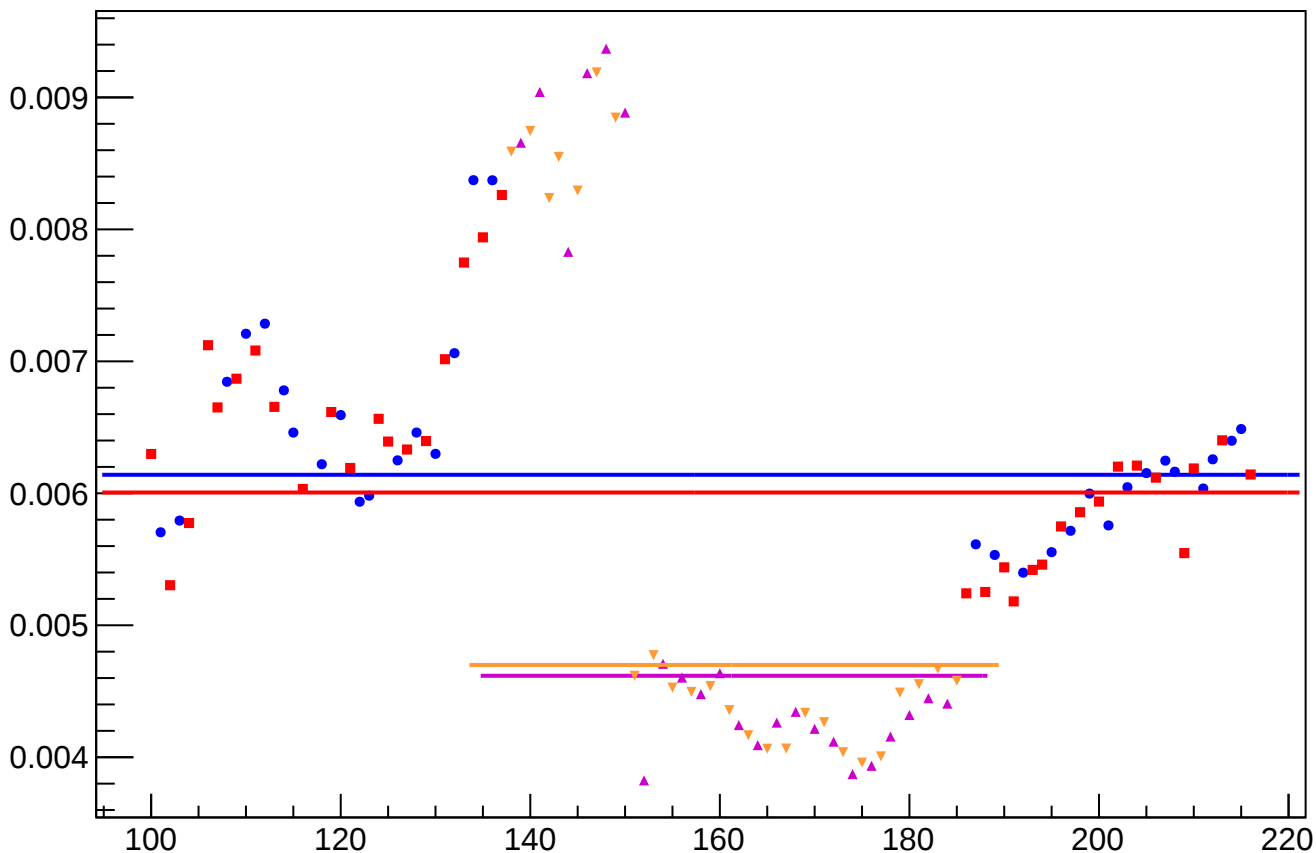
Right: -1.962+/-0.000 χ^2/NDF : 67040277168.4/66

In: -2.100+/-0.000 χ^2/NDF : 116599882217.0/54

Out: -2.085+/-0.000 χ^2/NDF : 109454660114.4/59

All: -2.093+/-0.000 χ^2/NDF : 226195556248.0

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 : 370664.3/34

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

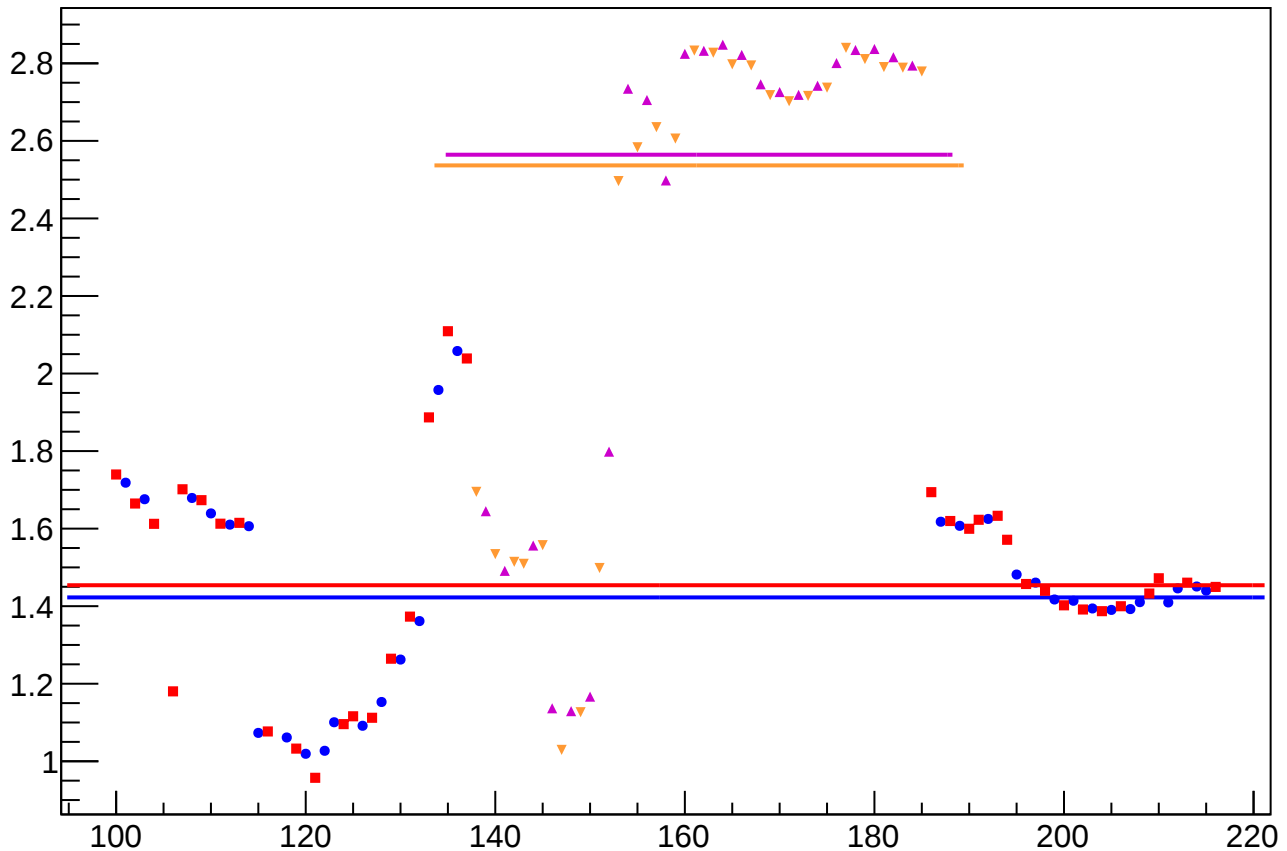
Right: 0.006+/-0.000 χ^2/NDF : 689621.5/66

In: 0.005+/-0.000 χ^2/NDF :3965376.5/54

Out: 0.005+/-0.000 χ^2/NDF :3691833.7/59

All: 0.005+/-0.000 χ^2/NDF : 7657382.3/114

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423 $\pm$ 0.000 χ^2/NDF : 174196881797.0/31

Left Out: 2.537 $\pm$ 0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454 $\pm$ 0.000 χ^2/NDF : 177000911519.5/34

Left In: 2.564 $\pm$ 0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550 $\pm$ 0.000 χ^2/NDF : 530319507083.6/47

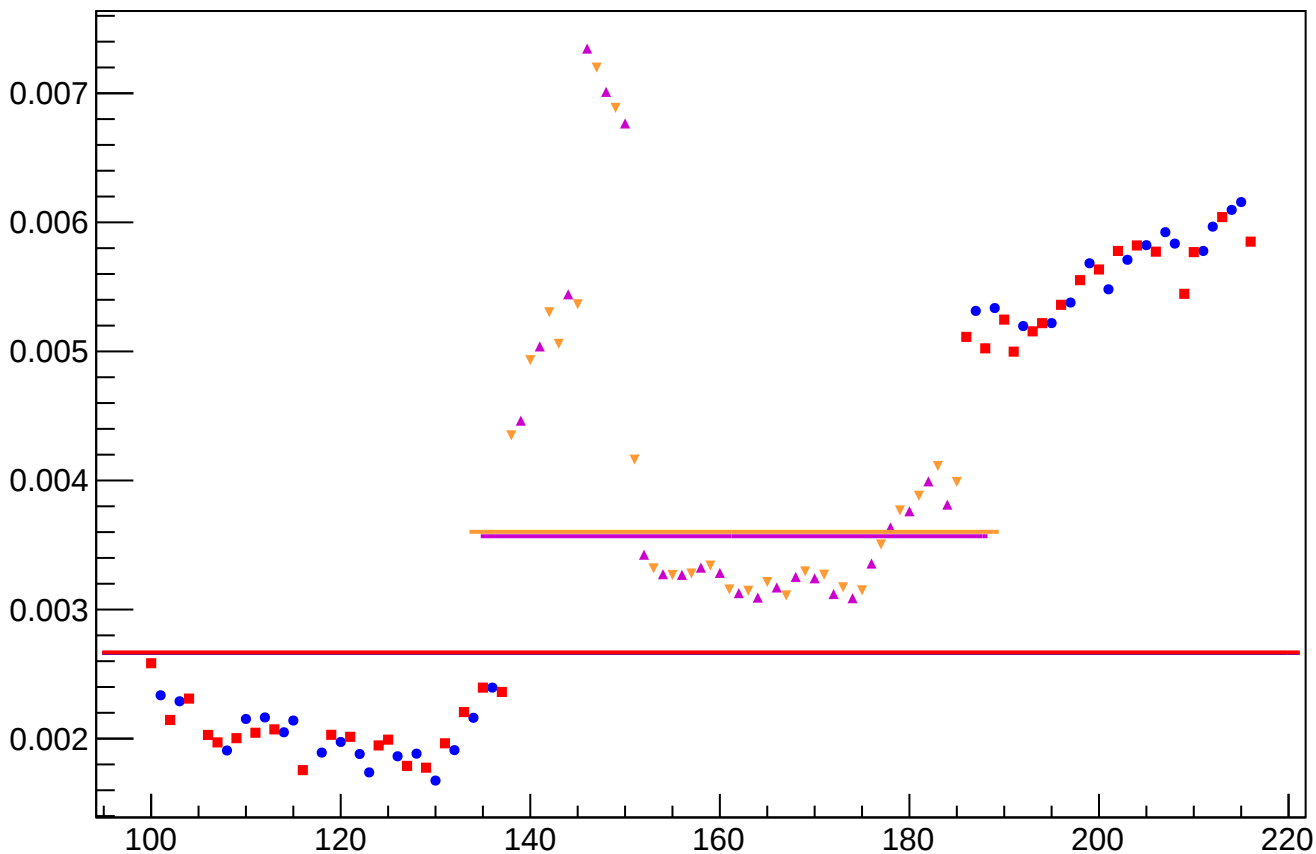
Right: 1.439 $\pm$ 0.000 χ^2/NDF : 352129669288.5/66

In: 1.878 $\pm$ 0.000 χ^2/NDF : 1395495140941.2/54

Out: 1.887 $\pm$ 0.000 χ^2/NDF : 1352168144131.1/59

All: 1.883 $\pm$ 0.000 χ^2/NDF : 2747810155291.

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 : 7110736.0/34

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

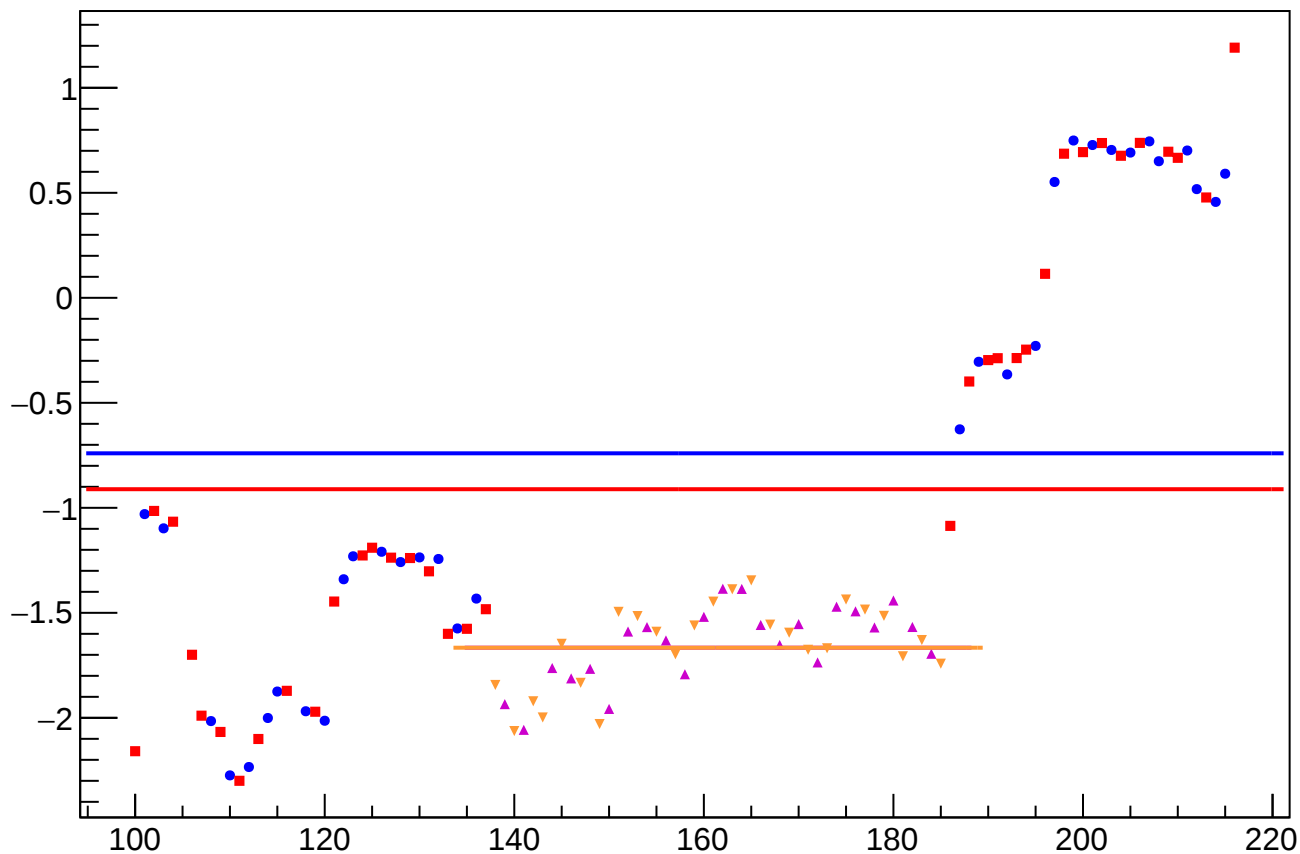
Right: 0.003+/-0.000 χ^2/NDF : 14501711.8/66

In: 0.003+/-0.000 χ^2/NDF :10158236.8/54

Out: 0.003+/-0.000 χ^2/NDF :9871359.0/59

All: 0.003+/-0.000 χ^2/NDF : 20030523.9/114

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.740 ± 0.000 $\chi^2/\text{NDF}: 238422610562.4/31$

Left Out: -1.666 ± 0.000 $\chi^2/\text{NDF}: 18325162131.2/24$

Right Out: -0.911 ± 0.000 $\chi^2/\text{NDF}: 270262399233.2/34$

Left In: -1.666 ± 0.000 $\chi^2/\text{NDF}: 14292570816.9/22$

Left: -1.666 ± 0.000 $\chi^2/\text{NDF}: 32617732948.1/47$

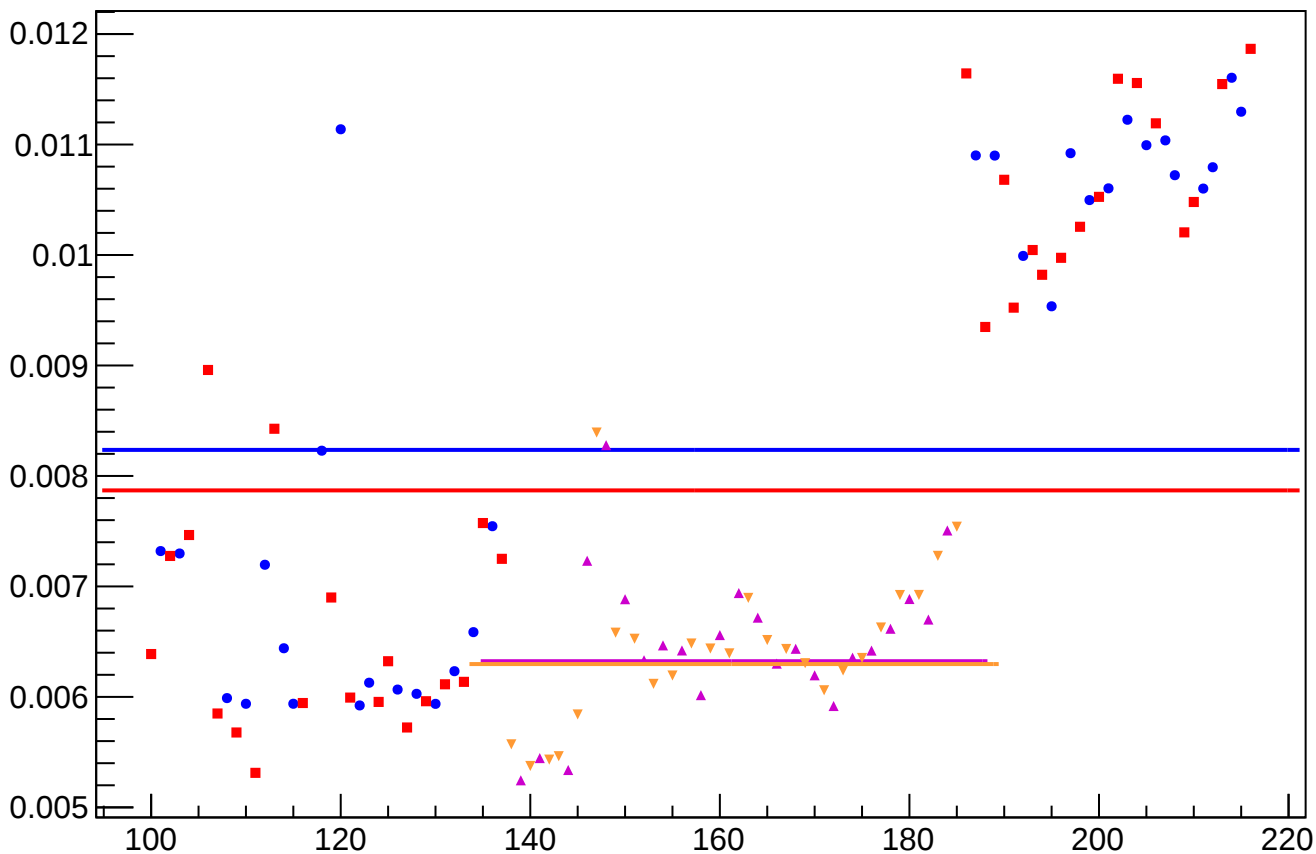
Right: -0.831 ± 0.000 $\chi^2/\text{NDF}: 512232251464.6/66$

In: -1.334 ± 0.000 $\chi^2/\text{NDF}: 378639842736.9/54$

Out: -1.387 ± 0.000 $\chi^2/\text{NDF}: 381405329996.4/59$

All: -1.362 ± 0.000 $\chi^2/\text{NDF}: 760977240149.5$

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 : 2396693.2/34

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

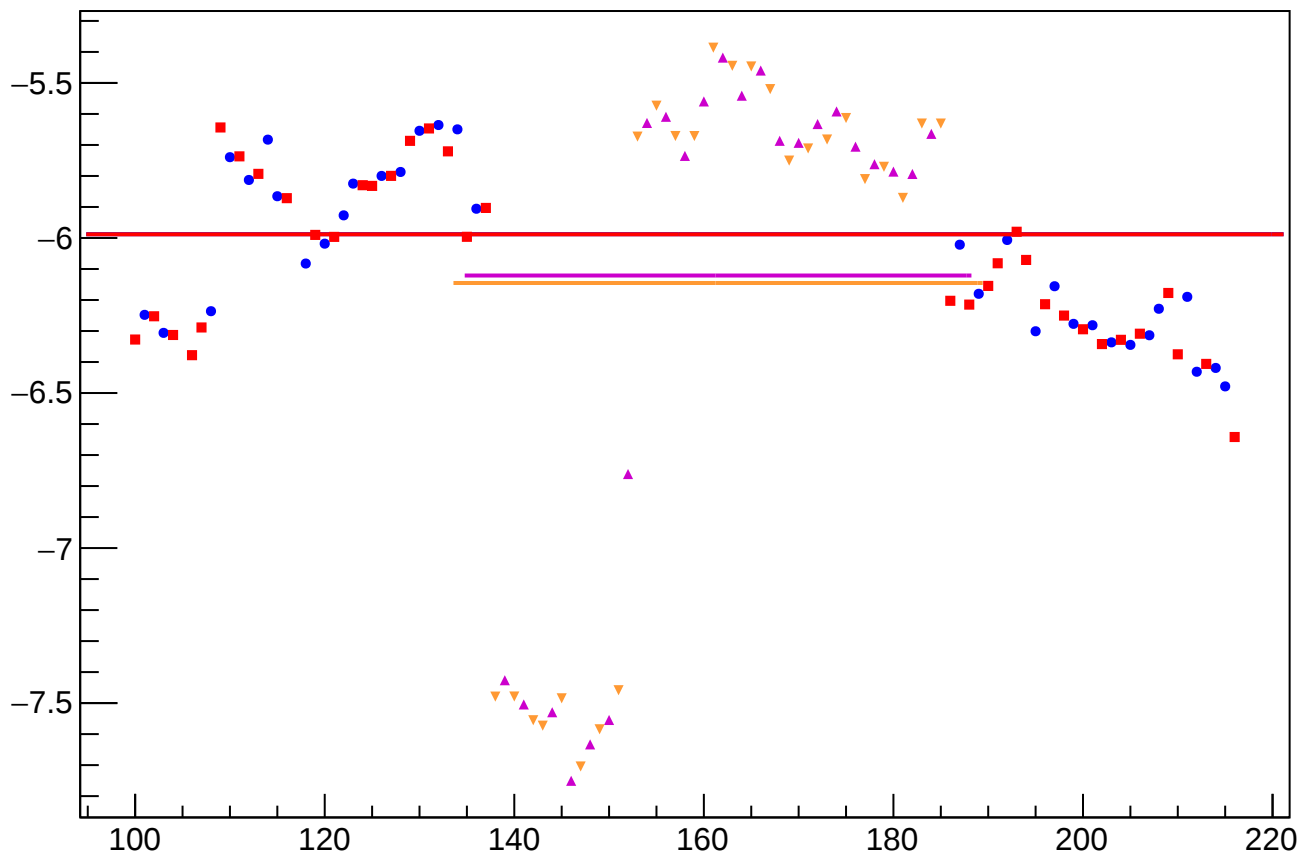
Right: 0.008+/-0.000 χ^2/NDF : 4523086.8/66

In: 0.007+/-0.000 χ^2/NDF : 3499882.4/54

Out: 0.007+/-0.000 χ^2/NDF : 3512679.7/59

All: 0.007+/-0.000 χ^2/NDF : 7023935.5/114

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: -5.988+/-0.000 χ^2/NDF : 19103787779.5/34

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

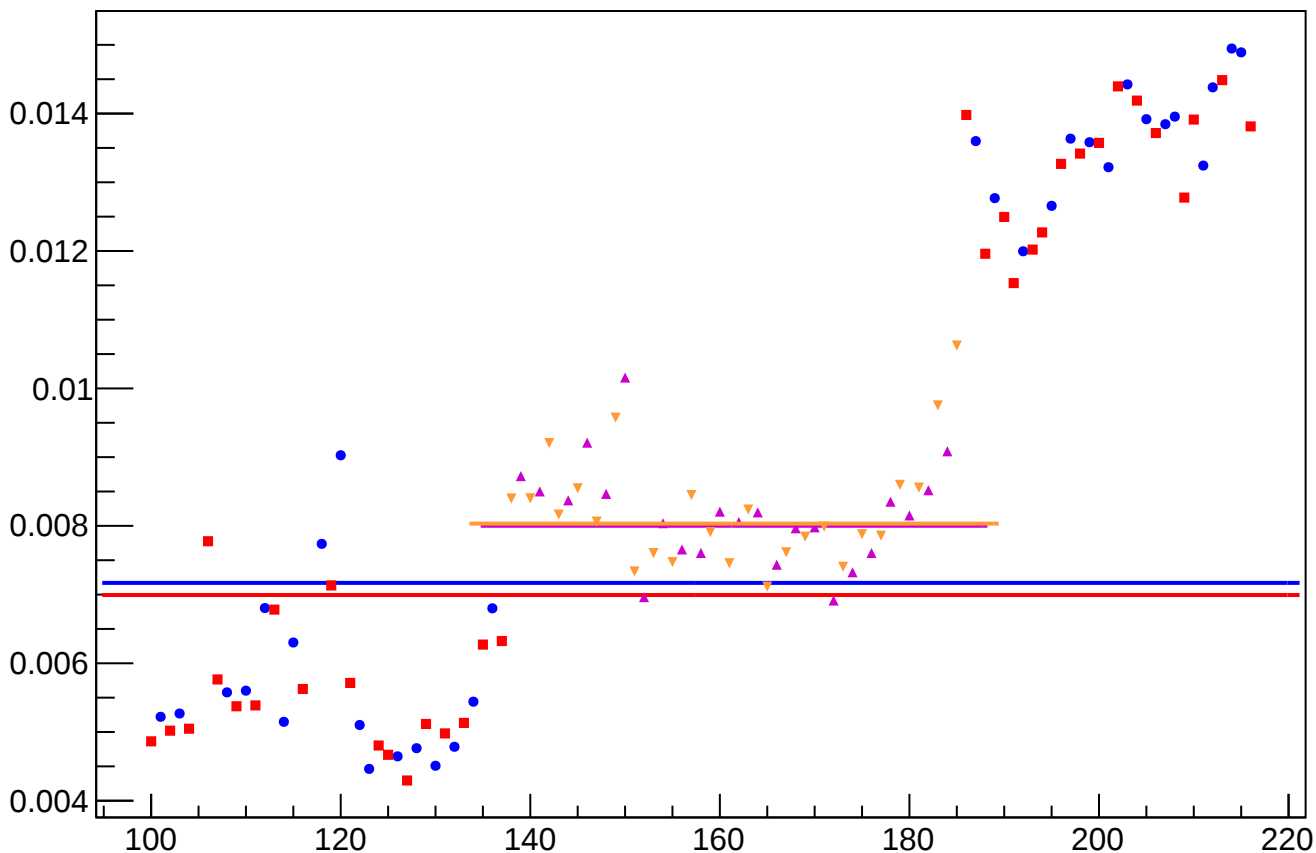
Right: -5.988+/-0.000 χ^2/NDF : 36657479291.0/66

In: -6.053+/-0.000 χ^2/NDF : 178107874346.7/54

Out: -6.063+/-0.000 χ^2/NDF : 207784945836.5/59

All: -6.058+/-0.000 χ^2/NDF : 385918979106.4

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 : 6098654.4/34

Left In: 0.008+/-0.000 χ^2/NDF : 220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

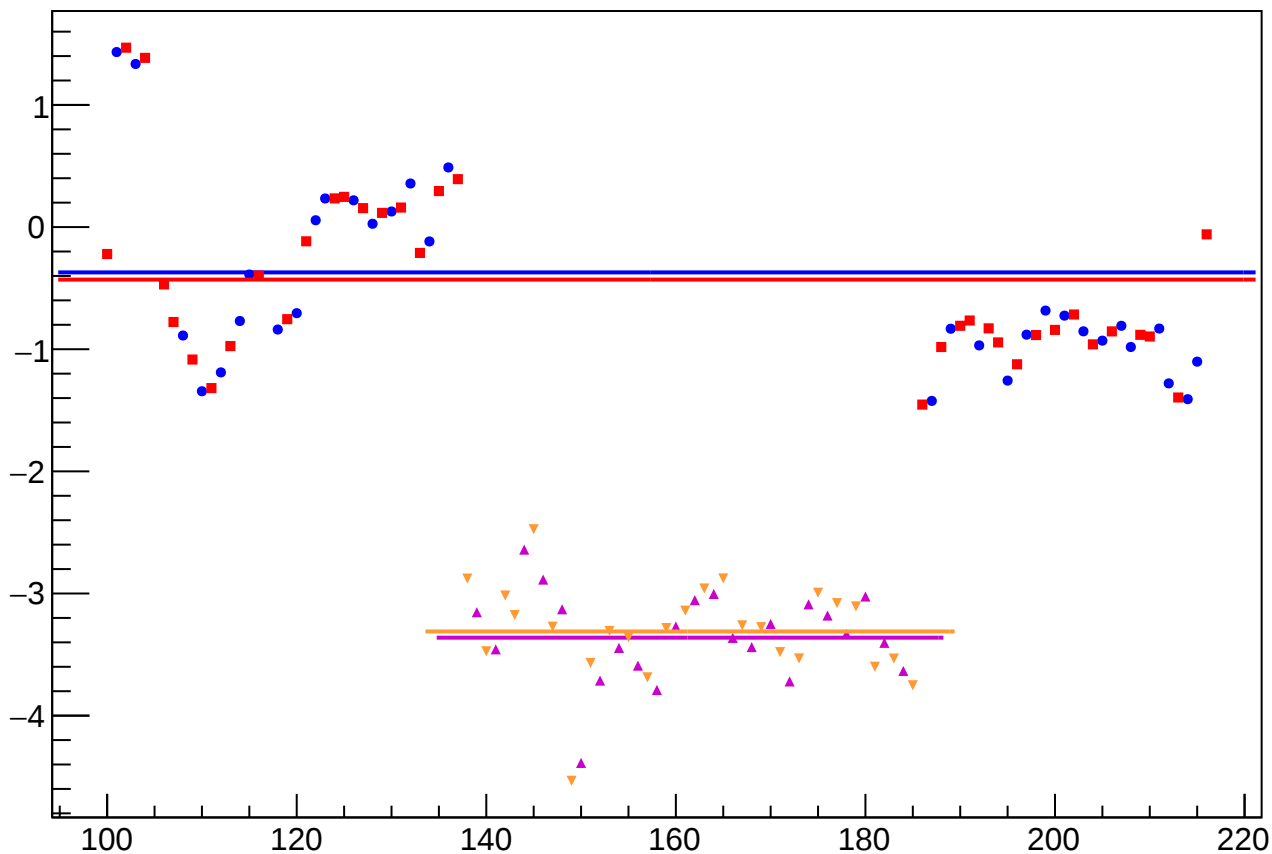
Right: 0.007+/-0.000 χ^2/NDF : 12388408.2/66

In: 0.008+/-0.000 χ^2/NDF : 6676301.7/54

Out: 0.007+/-0.000 χ^2/NDF : 6595036.9/59

All: 0.008+/-0.000 χ^2/NDF : 13275370.3/114

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.371 ± 0.000 $\chi^2/\text{NDF}: 36476990836.7/31$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.430 ± 0.000 $\chi^2/\text{NDF}: 35076066207.1/34$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

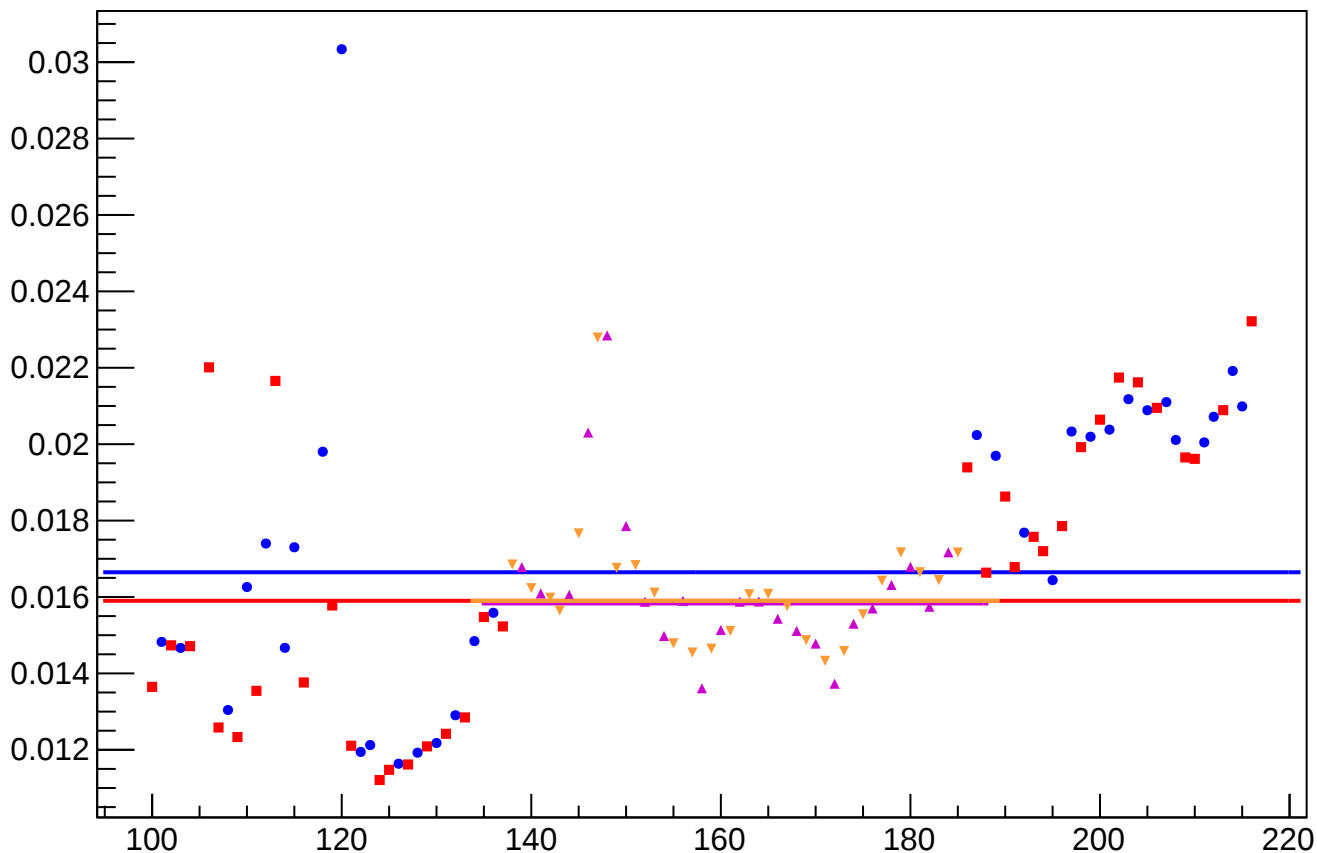
Right: -0.402 ± 0.000 $\chi^2/\text{NDF}: 71658343438.2/66$

In: -1.979 ± 0.000 $\chi^2/\text{NDF}: 318717984678.9/54$

Out: -1.925 ± 0.000 $\chi^2/\text{NDF}: 323737095963.2/59$

All: -1.950 ± 0.000 $\chi^2/\text{NDF}: 642642662007.5$

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 : 1606761.3/34

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

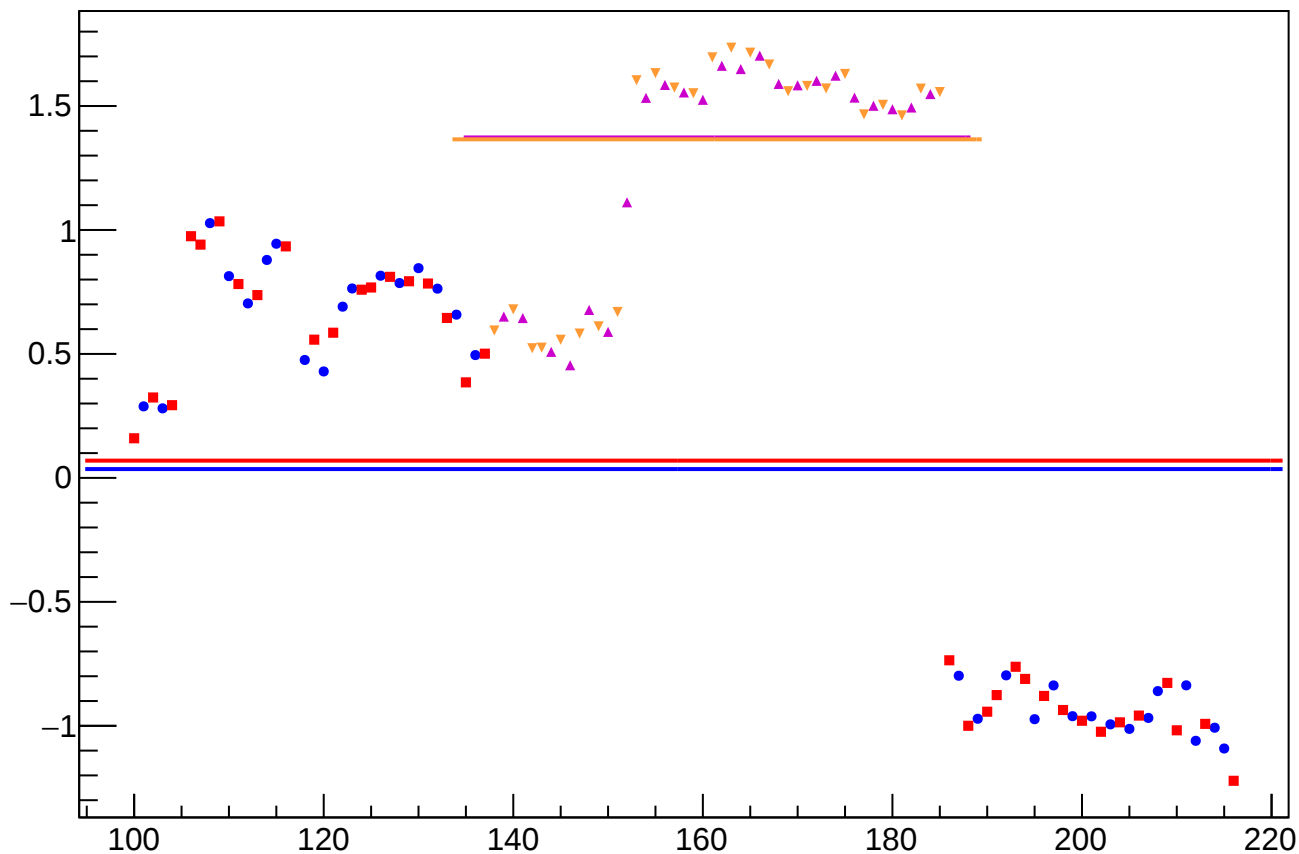
Right: 0.016+/-0.000 χ^2/NDF : 3179745.1/66

In: 0.016+/-0.000 χ^2/NDF :1919518.2/54

Out: 0.016+/-0.000 χ^2/NDF :1858674.1/59

All: 0.016+/-0.000 χ^2/NDF : 3790510.8/114

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.036+/-0.000

χ^2/NDF : 92006719898.6/31

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right: 0.054+/-0.000

χ^2/NDF : 193084032307.5/66

Right Out: 0.070+/-0.000

χ^2/NDF : 100984488843.3/34

In: 1.023+/-0.000

χ^2/NDF : 355719983559.8/54

Out: 0.997+/-0.000

χ^2/NDF : 379357666280.8/59

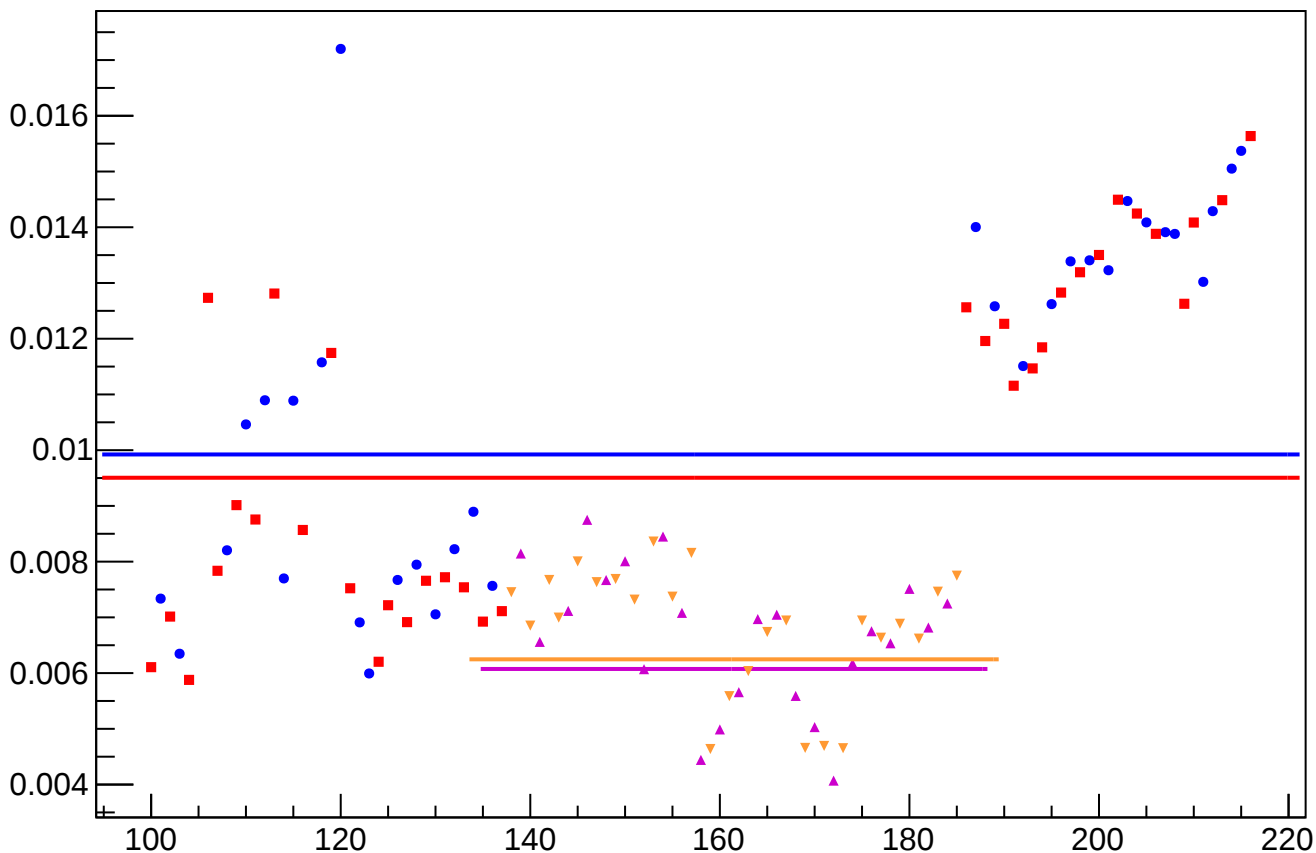
Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.009+/-0.000

χ^2/NDF : 735277664068.0

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: 0.010 $\pm$ 0.000 χ^2 /NDF: 2932263.3/34

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

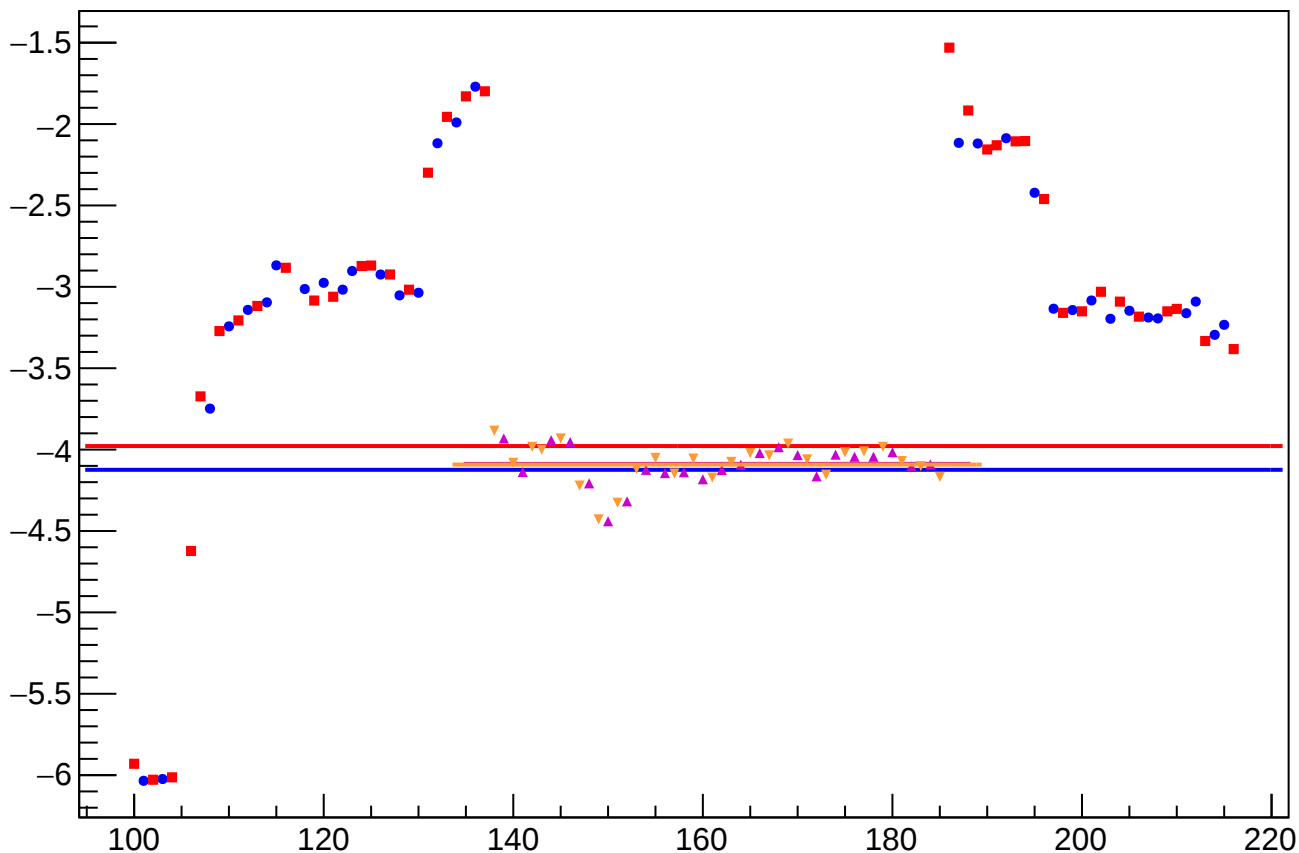
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 5813518.0/66

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7602454.6/54

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:6837371.9/59

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 14444803.1/114

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.124+/-0.000 χ^2/NDF : 286050119061.2/31

Left Out: -4.092+/-0.000 χ^2/NDF : 39806766.7/24

Right Out: -3.978+/-0.000 χ^2/NDF : 276427571872.9/34

Left In: -4.088+/-0.000 χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000 χ^2/NDF : 74248792.8/47

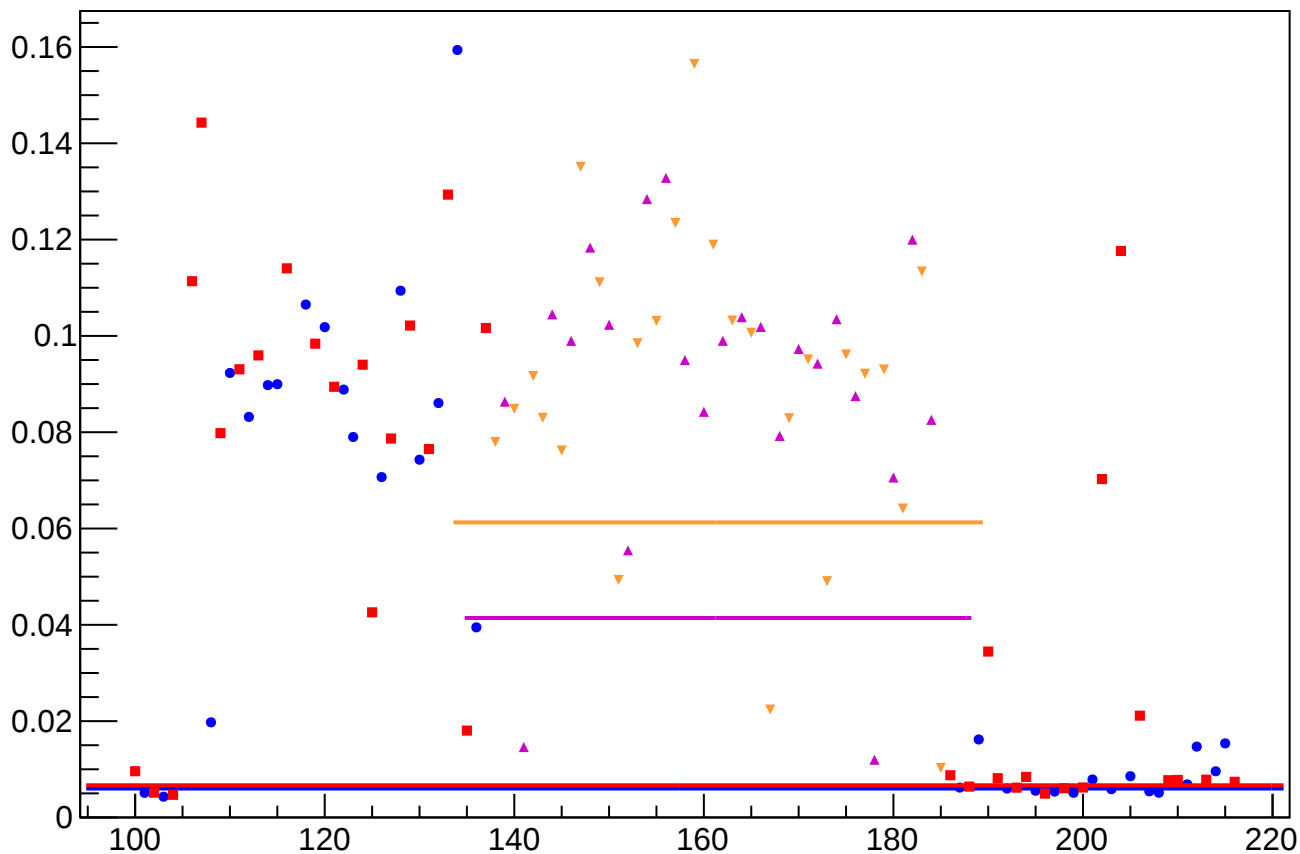
Right: -4.061+/-0.000 χ^2/NDF : 563579308935.5/66

In: -4.123+/-0.000 χ^2/NDF : 286089985371.6/54

Out: -3.982+/-0.000 χ^2/NDF : 276504342055.4/59

All: -4.062+/-0.000 χ^2/NDF : 563659169065.5

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 : 10359780.6/34

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

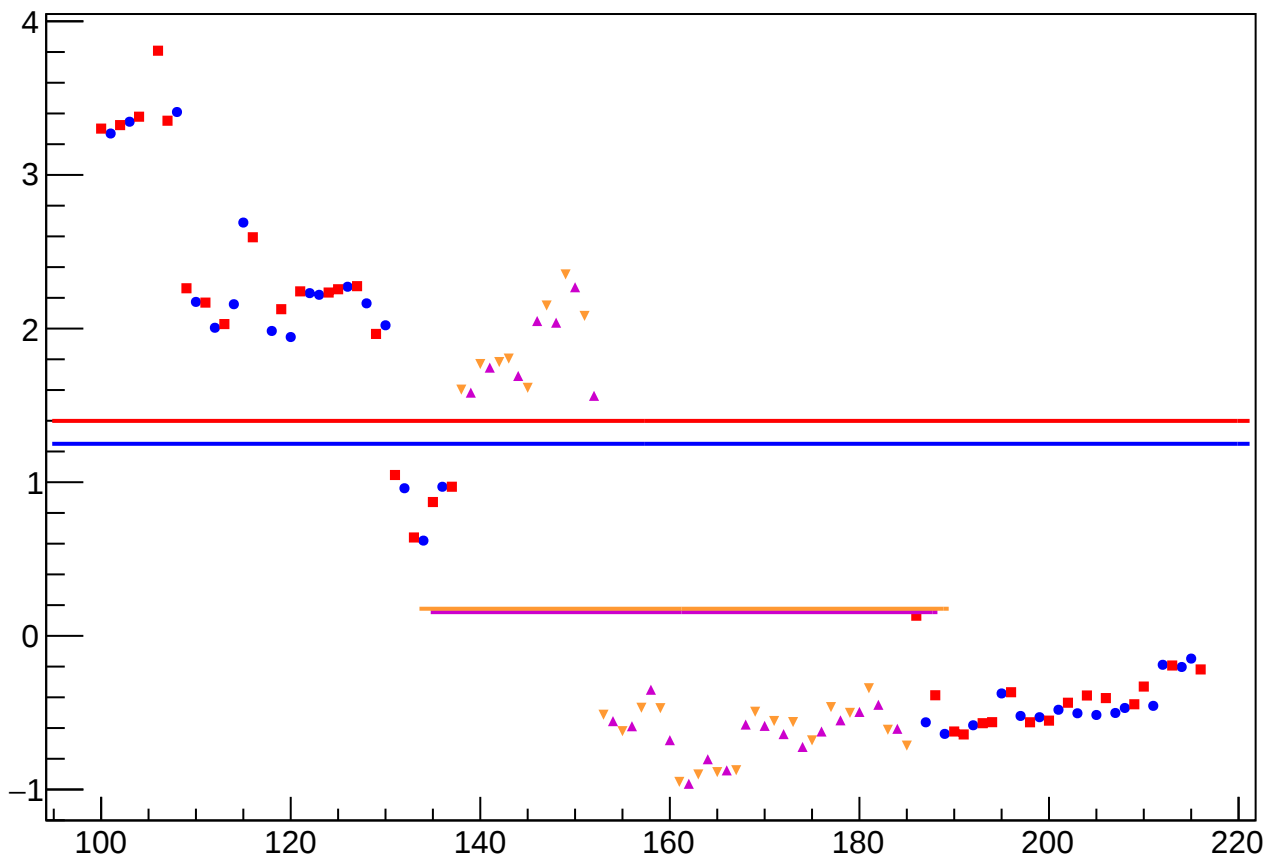
Right: 0.006+/-0.000 χ^2/NDF : 18758264.4/66

In: 0.007+/-0.000 χ^2/NDF :31804265.0/54

Out: 0.008+/-0.000 χ^2/NDF :35764028.7/59

All: 0.008+/-0.000 χ^2/NDF : 67713815.3/114

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: 1.399+/-0.000 χ^2/NDF : 189532133616.2/34

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

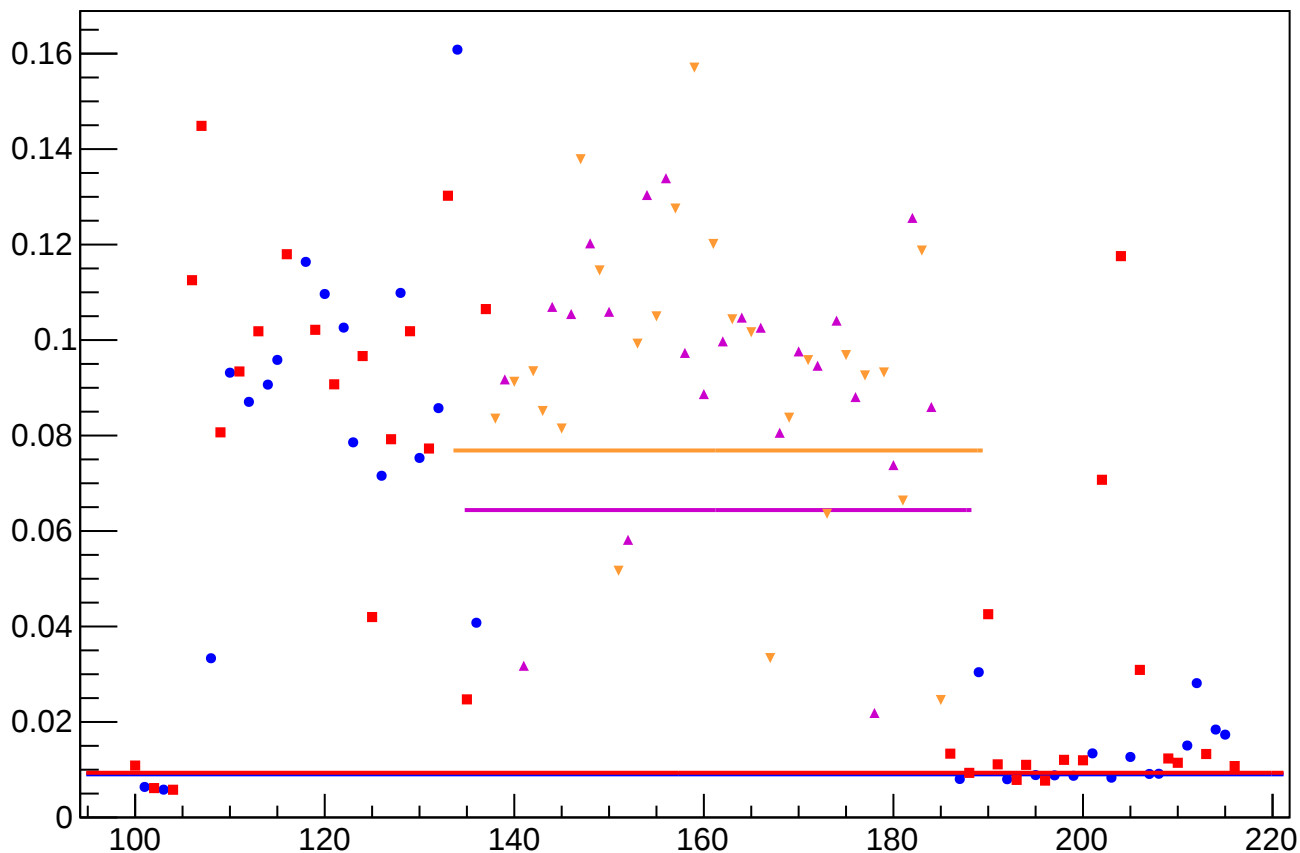
Right: 1.319+/-0.000 χ^2/NDF : 409856562172.9/66

In: 1.206+/-0.000 χ^2/NDF : 225818775558.5/54

Out: 1.350+/-0.000 χ^2/NDF : 196059576193.2/59

All: 1.273+/-0.000 χ^2/NDF : 422499064407.2

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 8569830.8/31

Left Out: 0.077+/-0.000 χ^2/NDF : 4217954.3/24

Right Out: 0.009+/-0.000 χ^2/NDF : 10389251.1/34

Left In: 0.064+/-0.000 χ^2/NDF : 6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

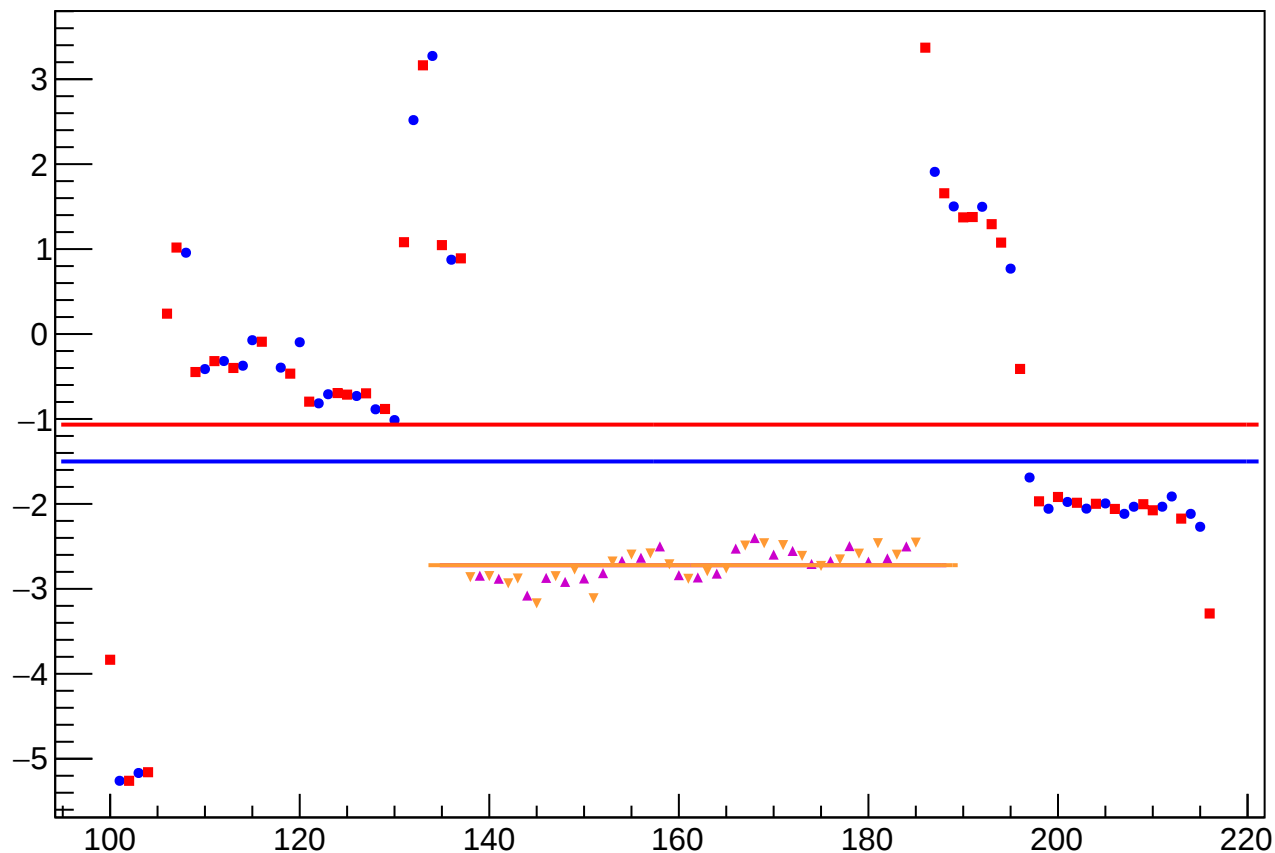
Right: 0.009+/-0.000 χ^2/NDF : 18965374.7/66

In: 0.011+/-0.000 χ^2/NDF : 30736996.2/54

Out: 0.012+/-0.000 χ^2/NDF : 34438652.3/59

All: 0.012+/-0.000 χ^2/NDF : 65218109.6/114

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: -1.066+/-0.000 χ^2/NDF : 246287225854.9/34

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

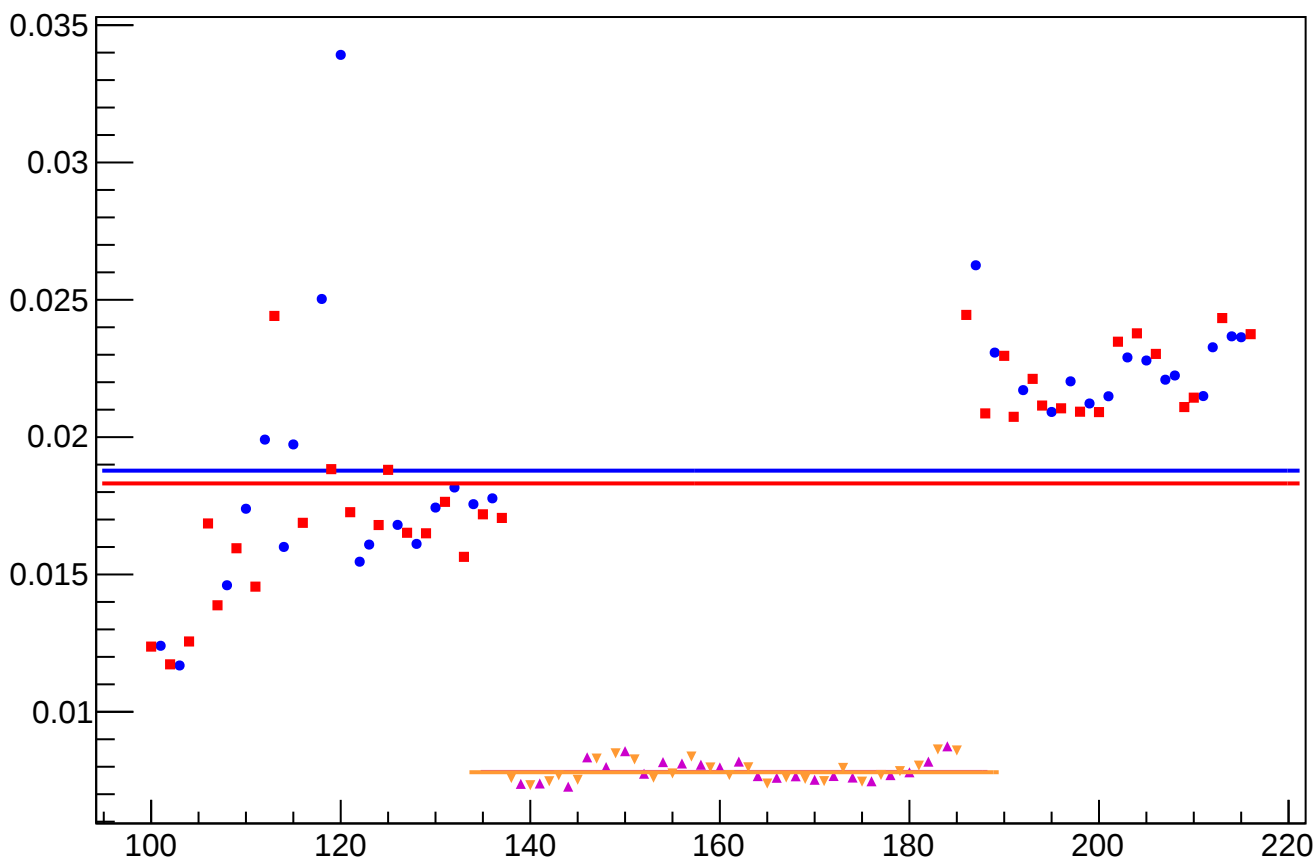
Right: -1.274+/-0.000 χ^2/NDF : 458874257007.3/66

In: -2.553+/-0.000 χ^2/NDF : 272809349874.9/54

Out: -2.488+/-0.000 χ^2/NDF : 369223677101.1/59

All: -2.519+/-0.000 χ^2/NDF : 642743664572.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 1567504.5/31

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 71164.4/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 1460639.2/34

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF: 67610.2/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 138804.4/47

Right: 0.019 $\pm$ 0.000 χ^2 /NDF: 3038047.2/66

In: 0.009 $\pm$ 0.000 χ^2 /NDF: 10725175.3/54

Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10618304.2/59

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 21343975.6/114

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: 0.248+/-0.000 χ^2/NDF : 956662623778.6/34

Left In: -0.034+/-0.000 χ^2/NDF : 113929060918.1/22

Left: -0.029+/-0.000 χ^2/NDF : 249405201350.6/47

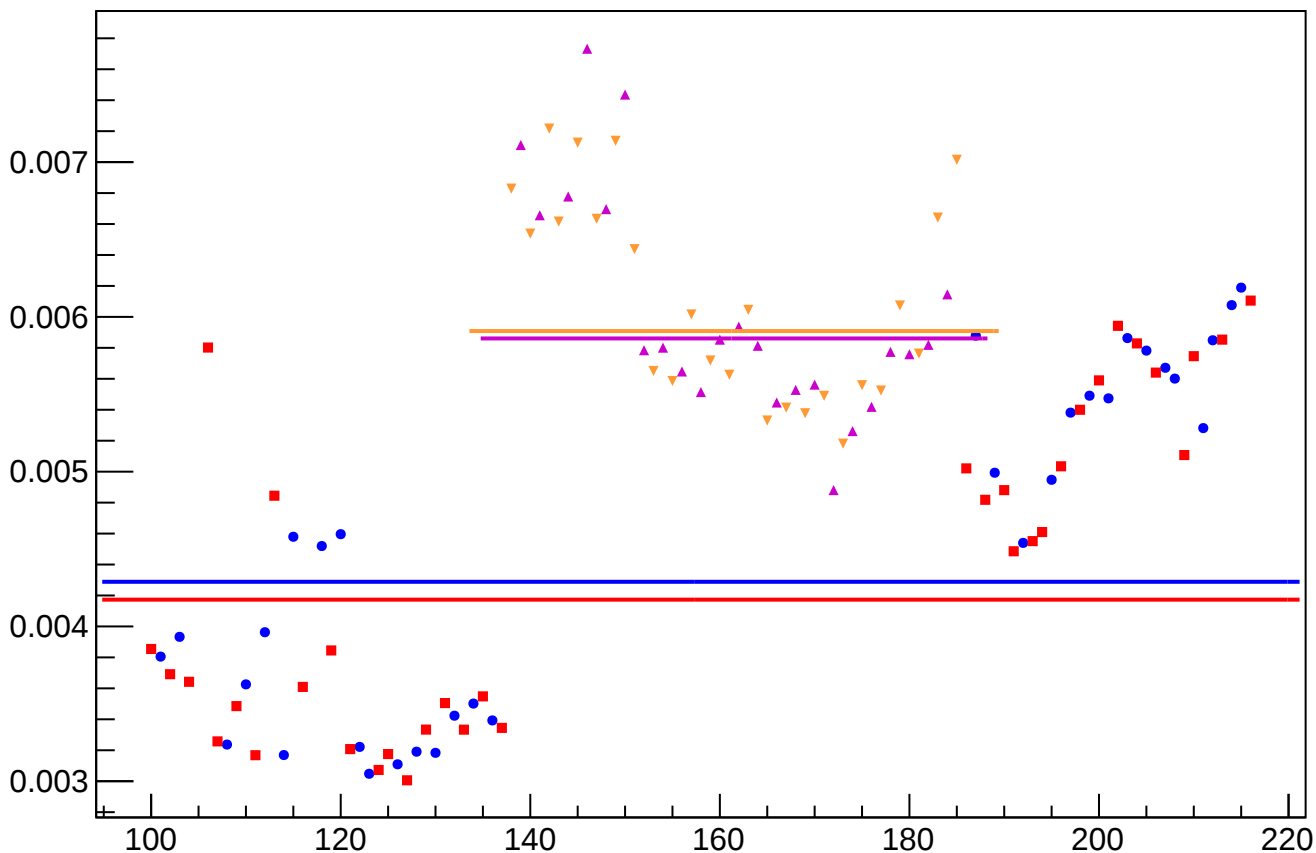
Right: 0.246+/-0.000 χ^2/NDF : 1857428605807.5/66

In: 0.146+/-0.000 χ^2/NDF : 1037951297841.4/54

Out: 0.155+/-0.000 χ^2/NDF : 1115732227116.7/59

All: 0.151+/-0.000 χ^2/NDF : 2153748991379.6/106

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 1851549.3/31

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1800507.7/34

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:364512.1/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 679905.3/47

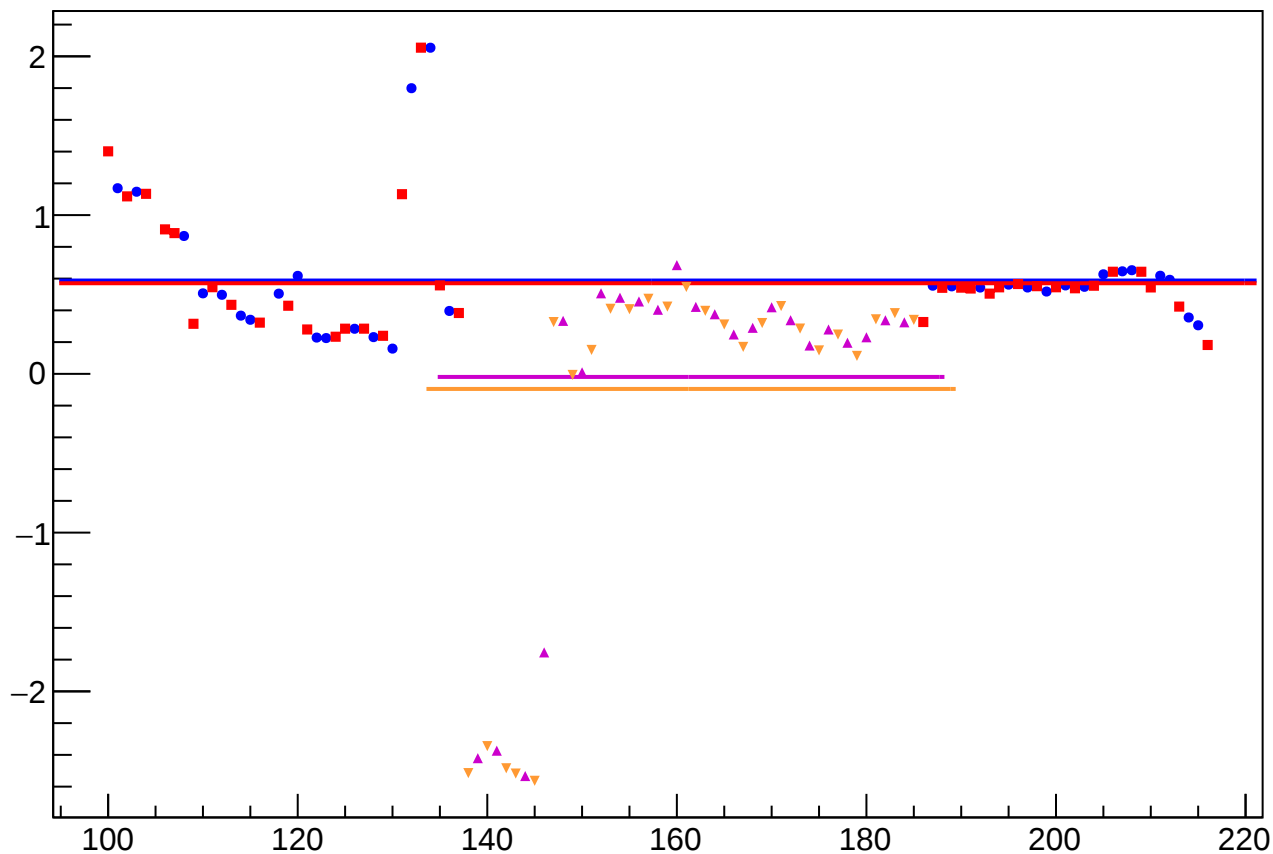
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 3663981.7/66

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3708782.4/54

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:4032891.9/59

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 7749846.7/114

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: 0.571+/-0.000 χ^2/NDF : 54539122003.1/34

Left In: -0.019+/-0.000 χ^2/NDF : 417104863944.5/22

Left: -0.058+/-0.000 χ^2/NDF : 924153662333.7/47

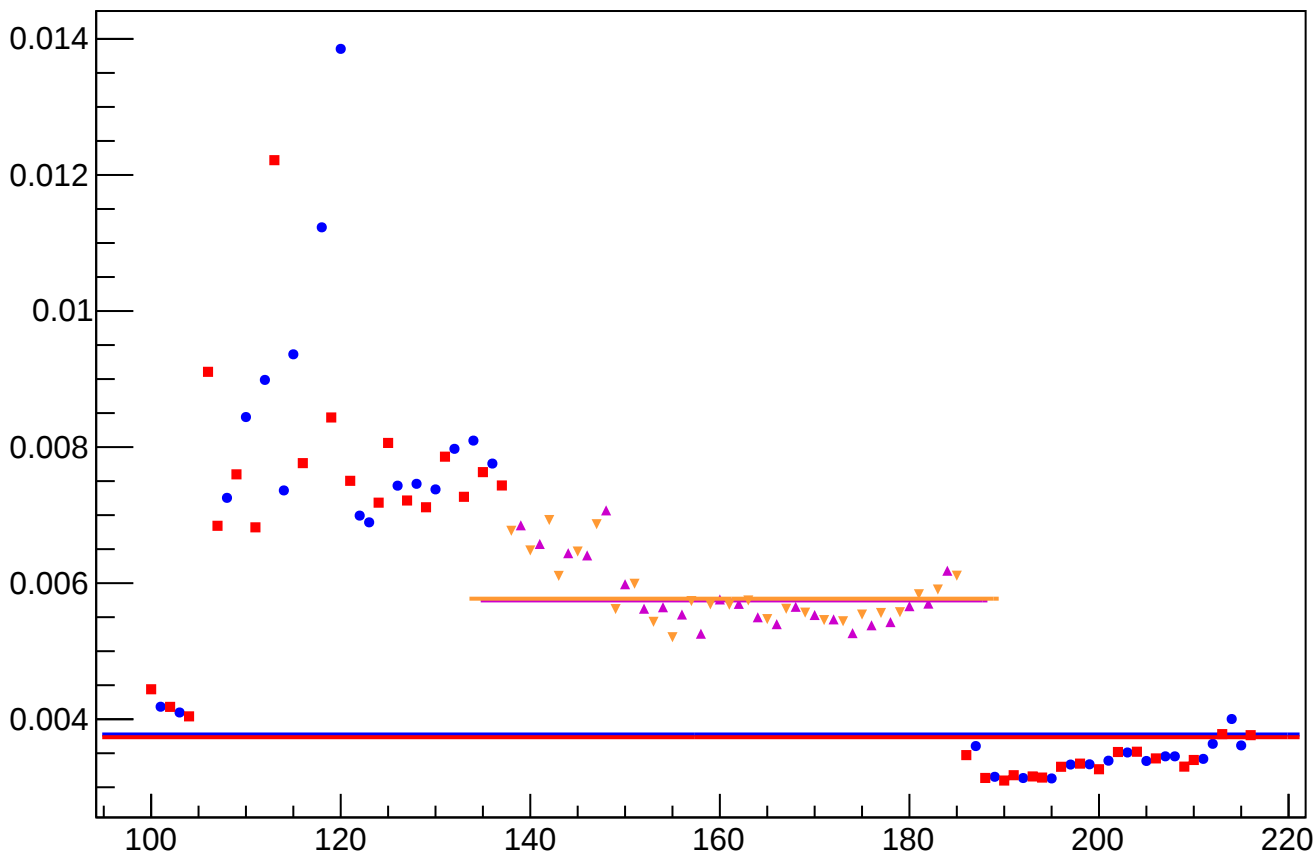
Right: 0.579+/-0.000 χ^2/NDF : 102444176350.0/66

In: 0.391+/-0.000 χ^2/NDF : 587697229547.9/54

Out: 0.357+/-0.000 χ^2/NDF : 715257846601.0/59

All: 0.373+/-0.000 χ^2/NDF : 1303830149782.0/110

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 : 3193538.3/34

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

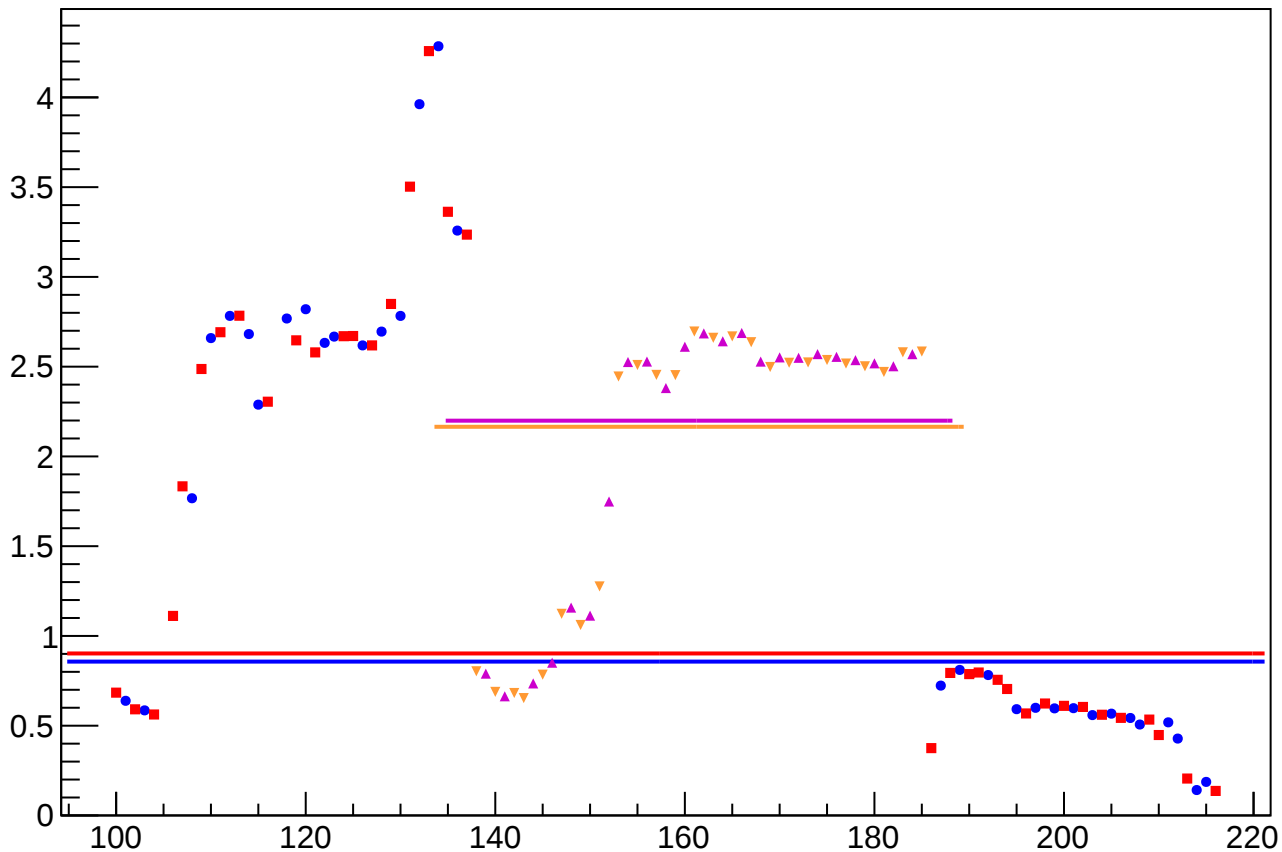
Right: 0.004+/-0.000 χ^2/NDF : 6347985.4/66

In: 0.004+/-0.000 χ^2/NDF :5945051.3/54

Out: 0.004+/-0.000 χ^2/NDF :6273944.5/59

All: 0.004+/-0.000 χ^2/NDF : 12220117.1/114

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: 0.902+/-0.000 χ^2/NDF : 374921872132.2/34

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

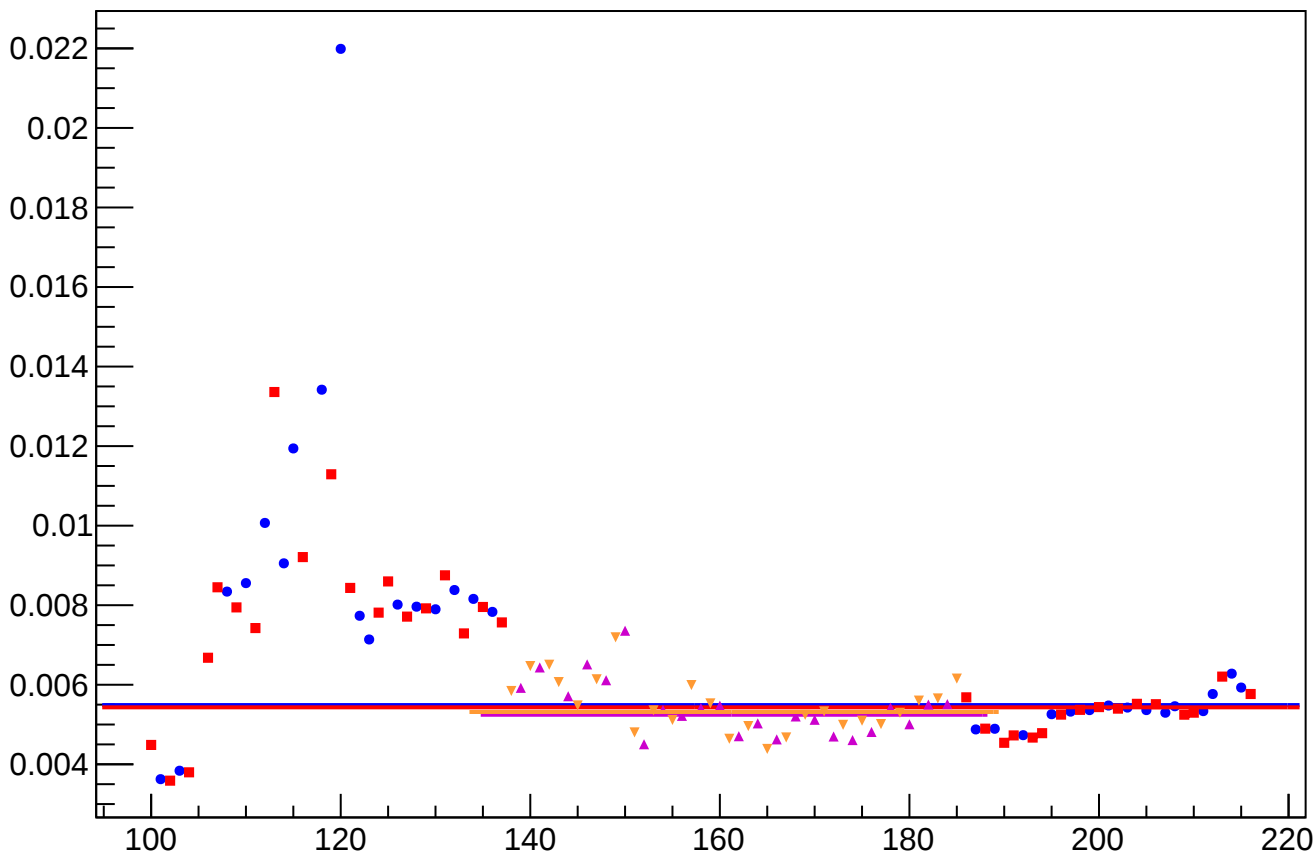
Right: 0.880+/-0.000 χ^2/NDF : 703110539873.3/66

In: 1.573+/-0.000 χ^2/NDF : 1062148283255.9/54

Out: 1.564+/-0.000 χ^2/NDF : 1113471021846.8/59

All: 1.568+/-0.000 χ^2/NDF : 2175659190098.

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 : 1907588.9/34

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

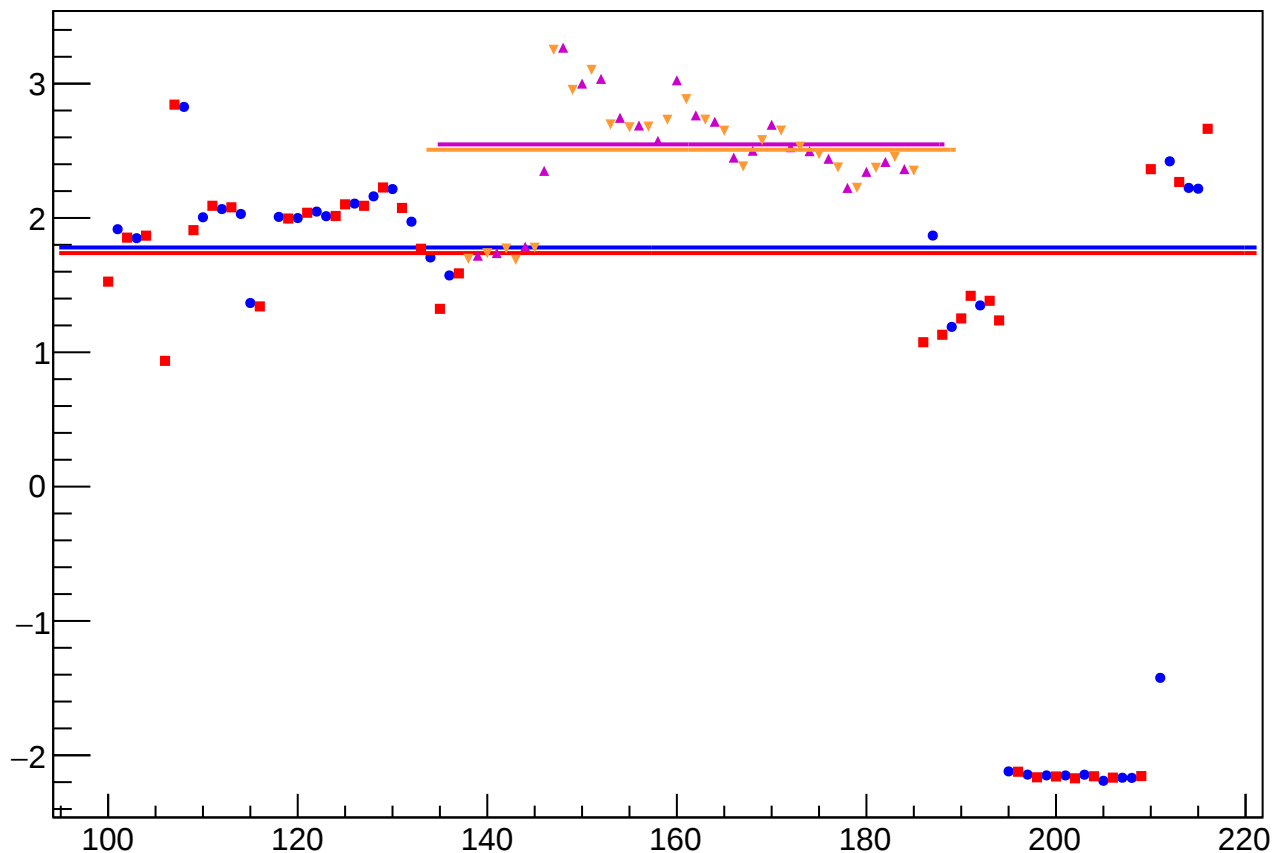
Right: 0.005+/-0.000 χ^2/NDF : 3954121.0/66

In: 0.005+/-0.000 χ^2/NDF :2502418.8/54

Out: 0.005+/-0.000 χ^2/NDF :2314012.6/59

All: 0.005+/-0.000 χ^2/NDF : 4816578.4/114

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: 1.739 $\pm$ 0.000 χ^2 /NDF: 148838868223.7/34

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

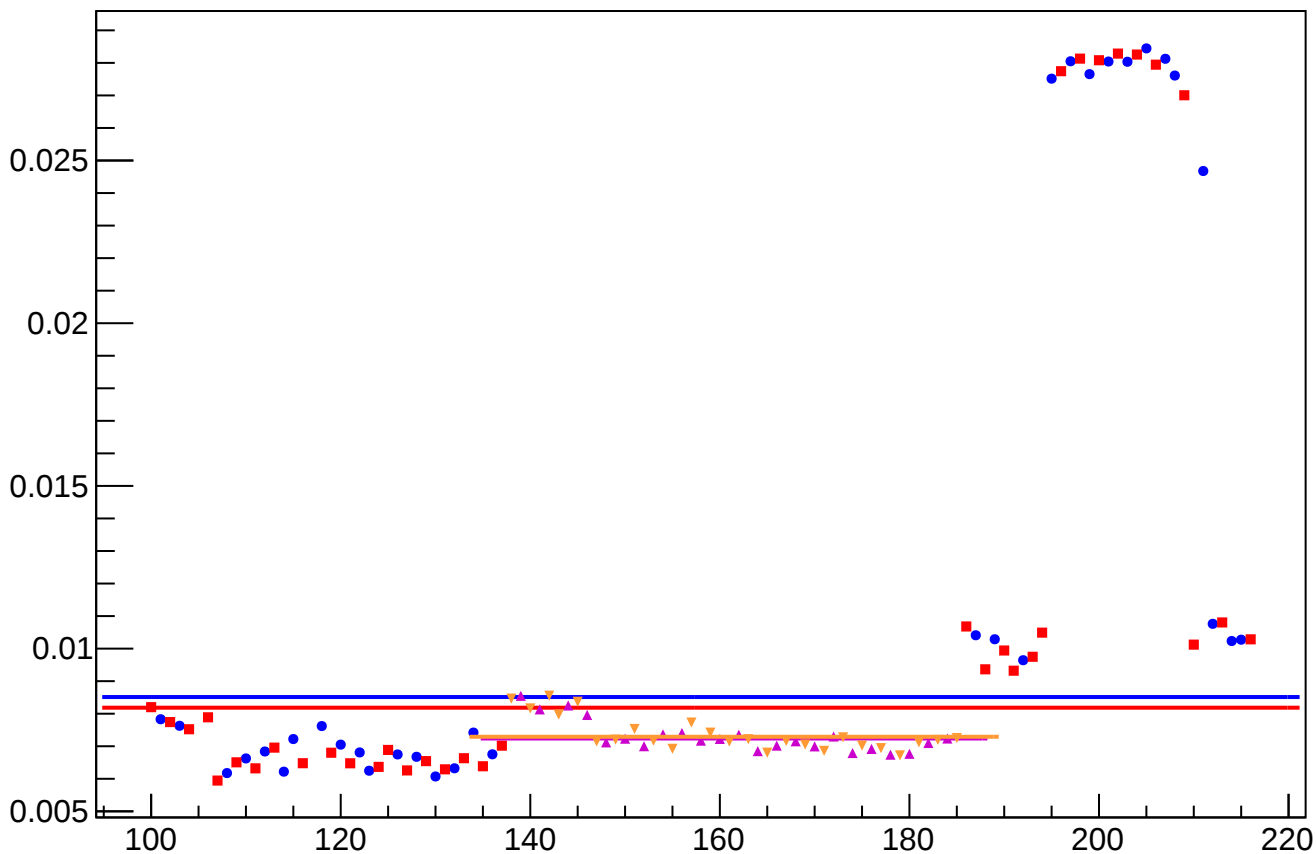
Right: 1.758 $\pm$ 0.000 χ^2 /NDF: 312124091778.4/66

In: 2.270 $\pm$ 0.000 χ^2 /NDF: 276058064313.1/54

Out: 2.208 $\pm$ 0.000 χ^2 /NDF: 276934306493.4/59

All: 2.238 $\pm$ 0.000 χ^2 /NDF: 553980903900.2

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 : 6450029.3/34

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

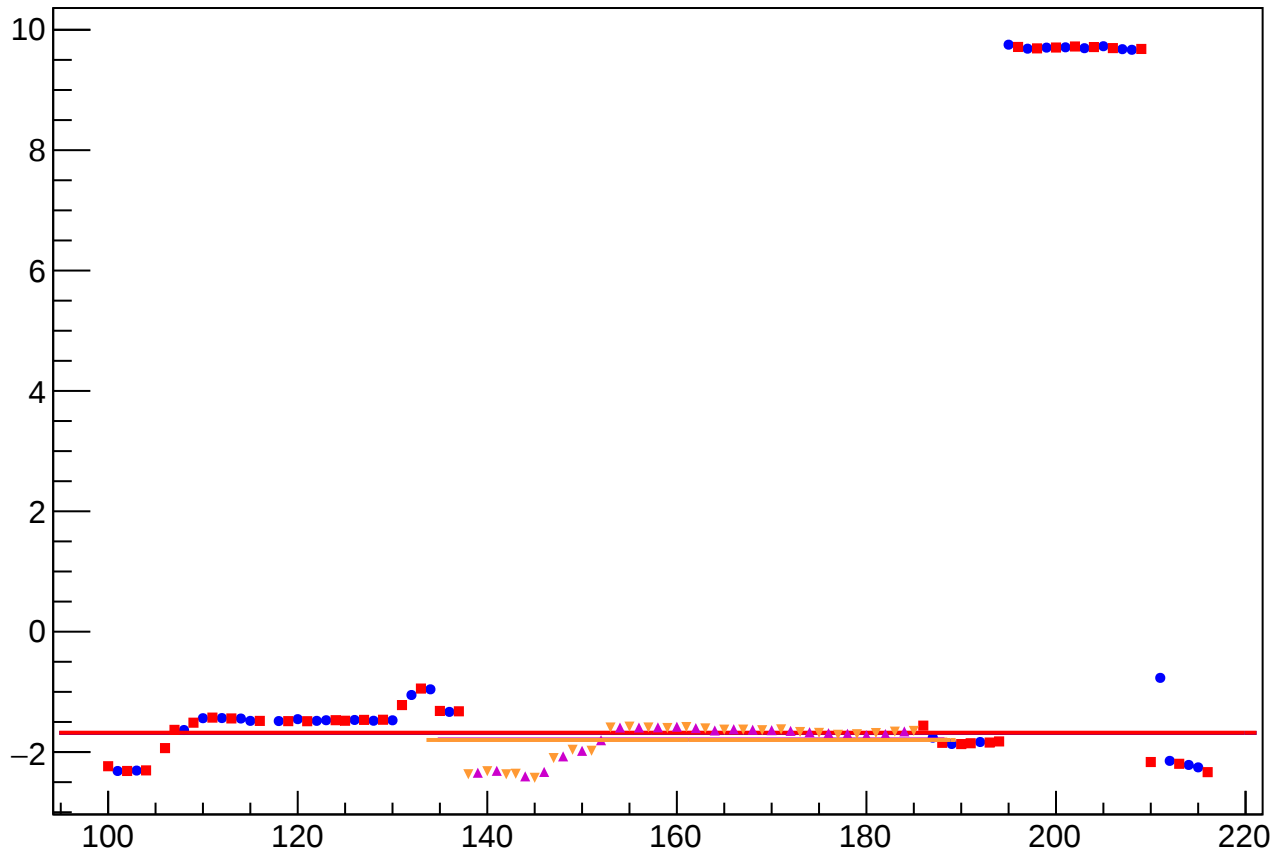
Right: 0.008+/-0.000 χ^2/NDF : 14142593.9/66

In: 0.008+/-0.000 χ^2/NDF :8169655.0/54

Out: 0.008+/-0.000 χ^2/NDF :6795062.4/59

All: 0.008+/-0.000 χ^2/NDF : 14966567.9/114

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: -1.679+/-0.000 χ^2/NDF : 381488813832.3/34

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

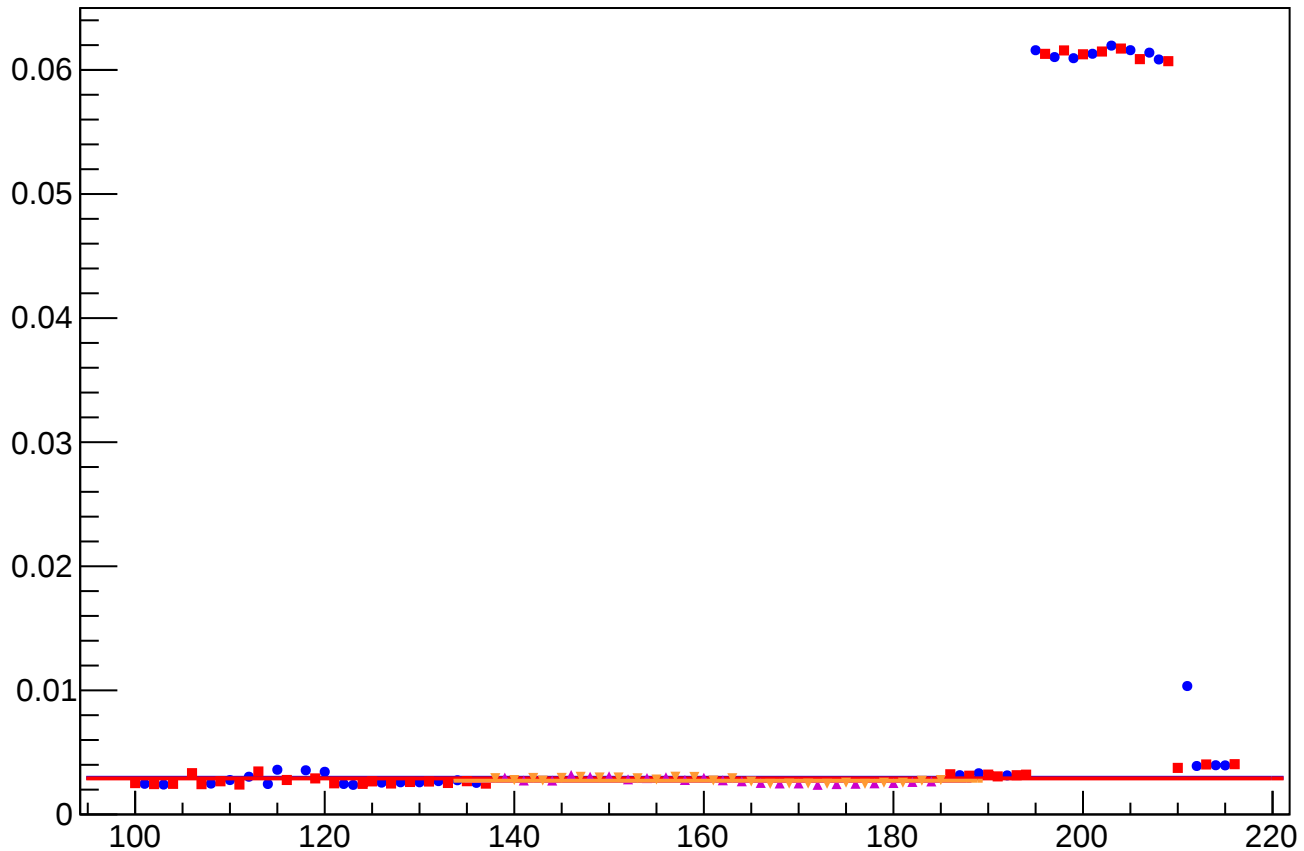
Right: -1.681+/-0.000 χ^2/NDF : 783596317328.5/66

In: -1.754+/-0.000 χ^2/NDF : 570667929813.6/54

Out: -1.754+/-0.000 χ^2/NDF : 579623993131.2/59

All: -1.754+/-0.000 χ^2/NDF : 1150292299630

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 : 10218857.9/34

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

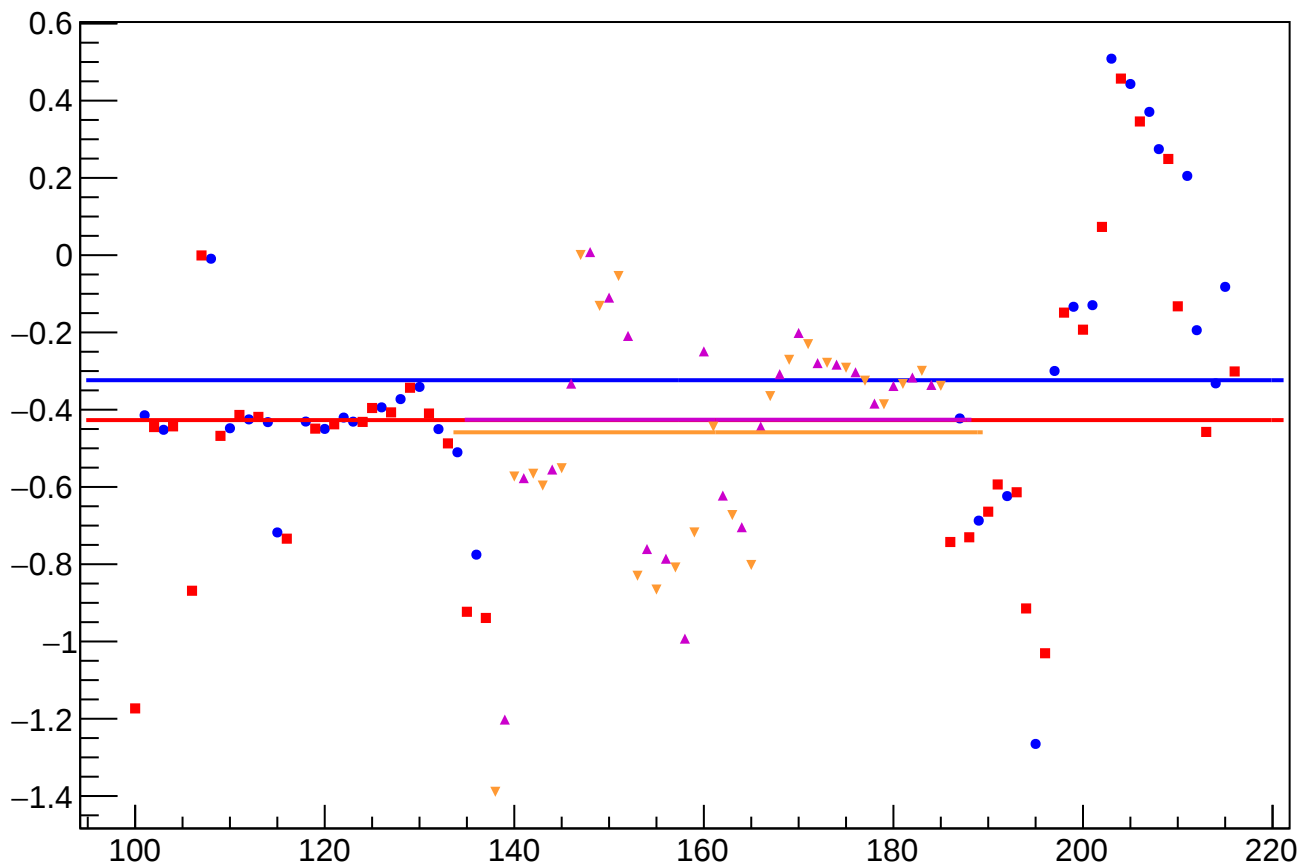
Right: 0.003+/-0.000 χ^2/NDF : 22280361.6/66

In: 0.003+/-0.000 χ^2/NDF :12377961.9/54

Out: 0.003+/-0.000 χ^2/NDF :10481340.7/59

All: 0.003+/-0.000 χ^2/NDF : 22859310.0/114

yield_bpm0l07X_mean vs Slug, Sign Corrected



Left: -0.443 $\pm$ 0.000 χ^2/NDF : 18401926676.9/47

Right: -0.378 $\pm$ 0.000 χ^2/NDF : 21570936054.6/66

In: -0.383 $\pm$ 0.000 χ^2/NDF : 19847808340.5/54

Out: -0.445 $\pm$ 0.000 χ^2/NDF : 20154888044.8/59

Right In: -0.324 $\pm$ 0.000 χ^2/NDF : 10923398398.8/31

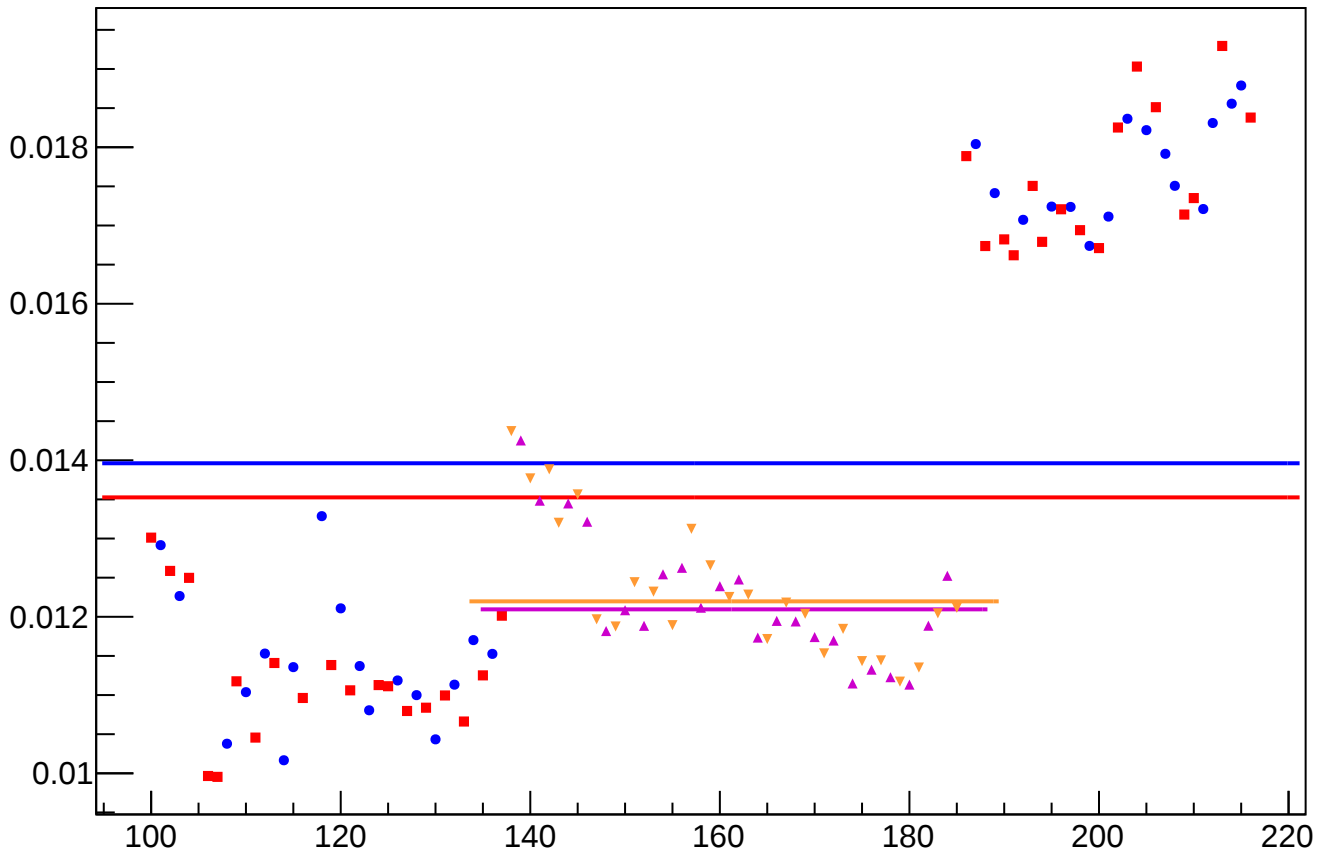
Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.427 $\pm$ 0.000 χ^2/NDF : 10187357434.4/34

Left In: -0.426 $\pm$ 0.000 χ^2/NDF : 8424222576.0/22

All: -0.415 $\pm$ 0.000 χ^2/NDF : 40390392555.4/100

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: 0.014+/-0.000 χ^2/NDF : 1843699.0/34

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

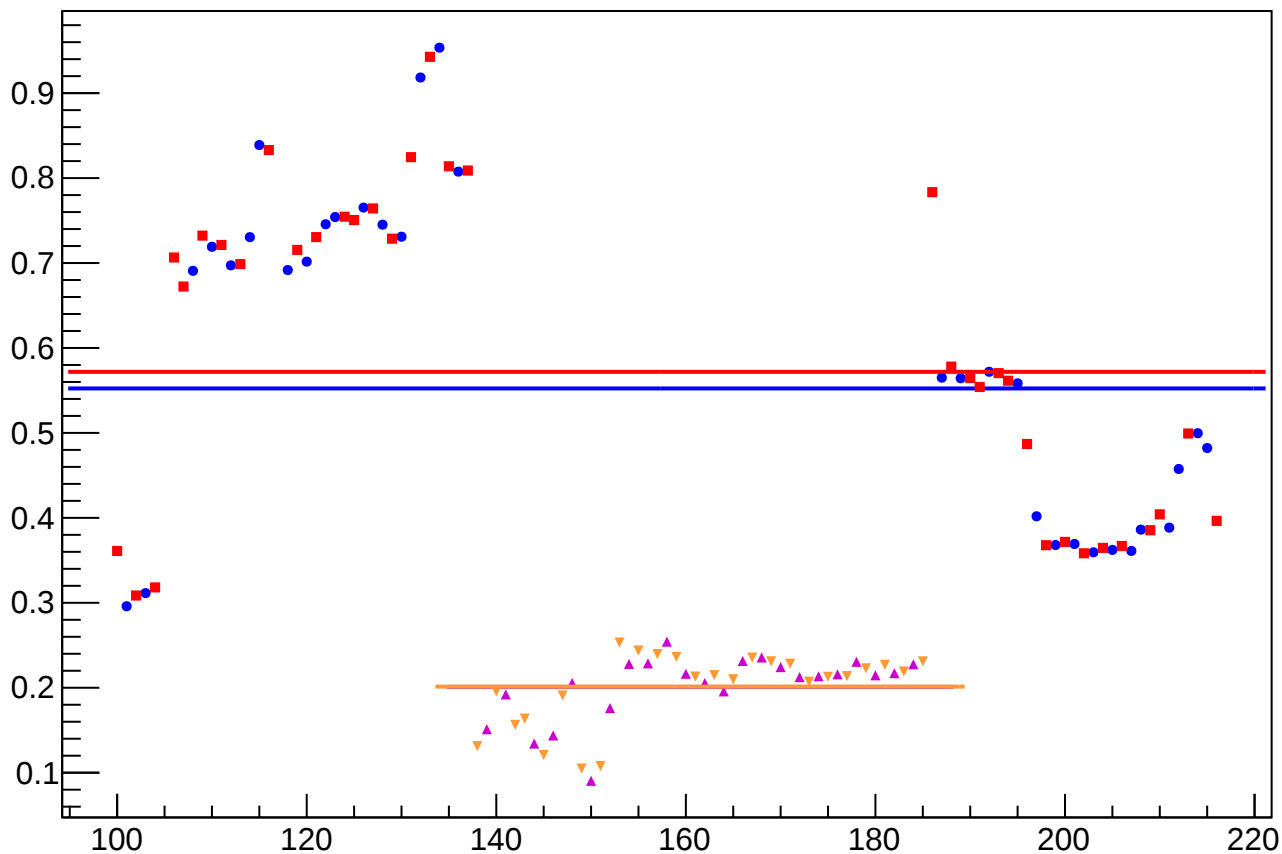
Right: 0.014+/-0.000 χ^2/NDF : 3467656.2/66

In: 0.013+/-0.000 χ^2/NDF :2067932.8/54

Out: 0.013+/-0.000 χ^2/NDF :2166300.8/59

All: 0.013+/-0.000 χ^2/NDF : 4236603.6/114

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: 0.572 $\pm$ 0.000 χ^2 /NDF: 75472609867.1/34

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

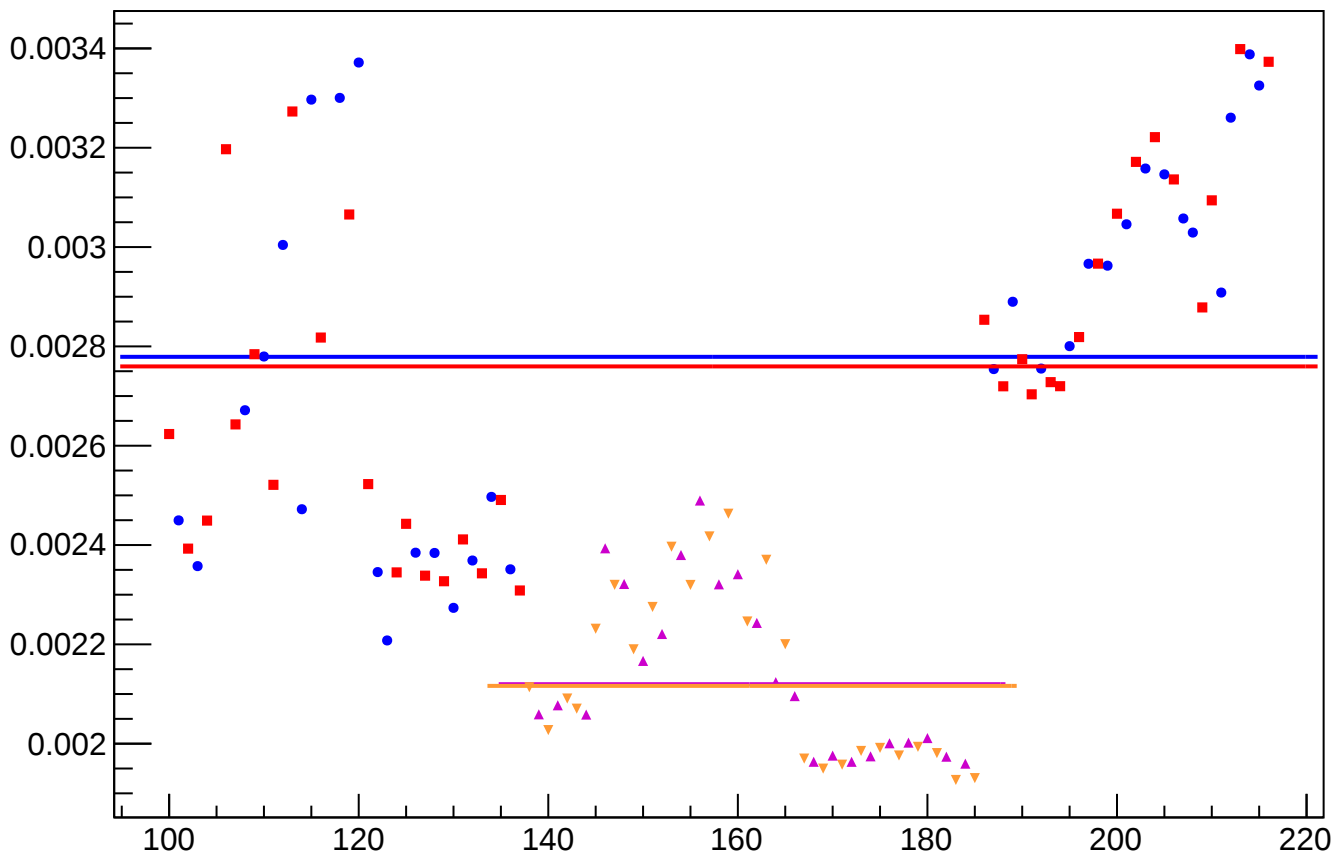
Right: 0.562 $\pm$ 0.000 χ^2 /NDF: 152477821688.5/66

In: 0.328 $\pm$ 0.000 χ^2 /NDF: 251984491451.7/54

Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 280716050390.0/59

All: 0.331 $\pm$ 0.000 χ^2 /NDF: 532794883219.4

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 : 443595.5/34

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

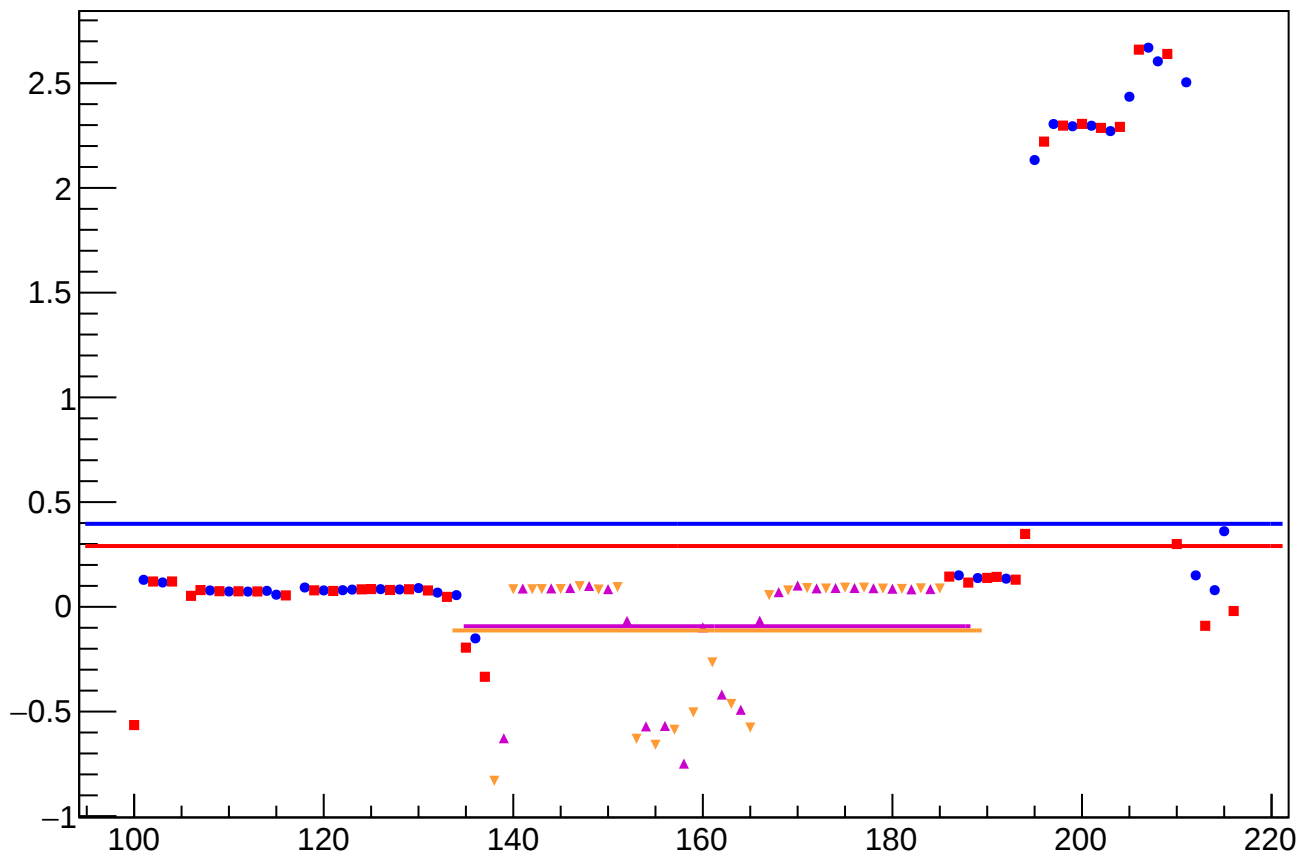
Right: 0.003+/-0.000 χ^2/NDF : 977782.2/66

In: 0.002+/-0.000 χ^2/NDF :1917853.3/54

Out: 0.002+/-0.000 χ^2/NDF :1862123.2/59

All: 0.002+/-0.000 χ^2/NDF : 3780867.9/114

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: 0.340+/-0.000

χ^2/NDF : 114346889341.8/66

Right Out: 0.290+/-0.000

χ^2/NDF : 52404457385.5/34

In: 0.105+/-0.000

χ^2/NDF : 85831693610.4/54

Out: 0.059+/-0.000

χ^2/NDF : 76119922342.5/59

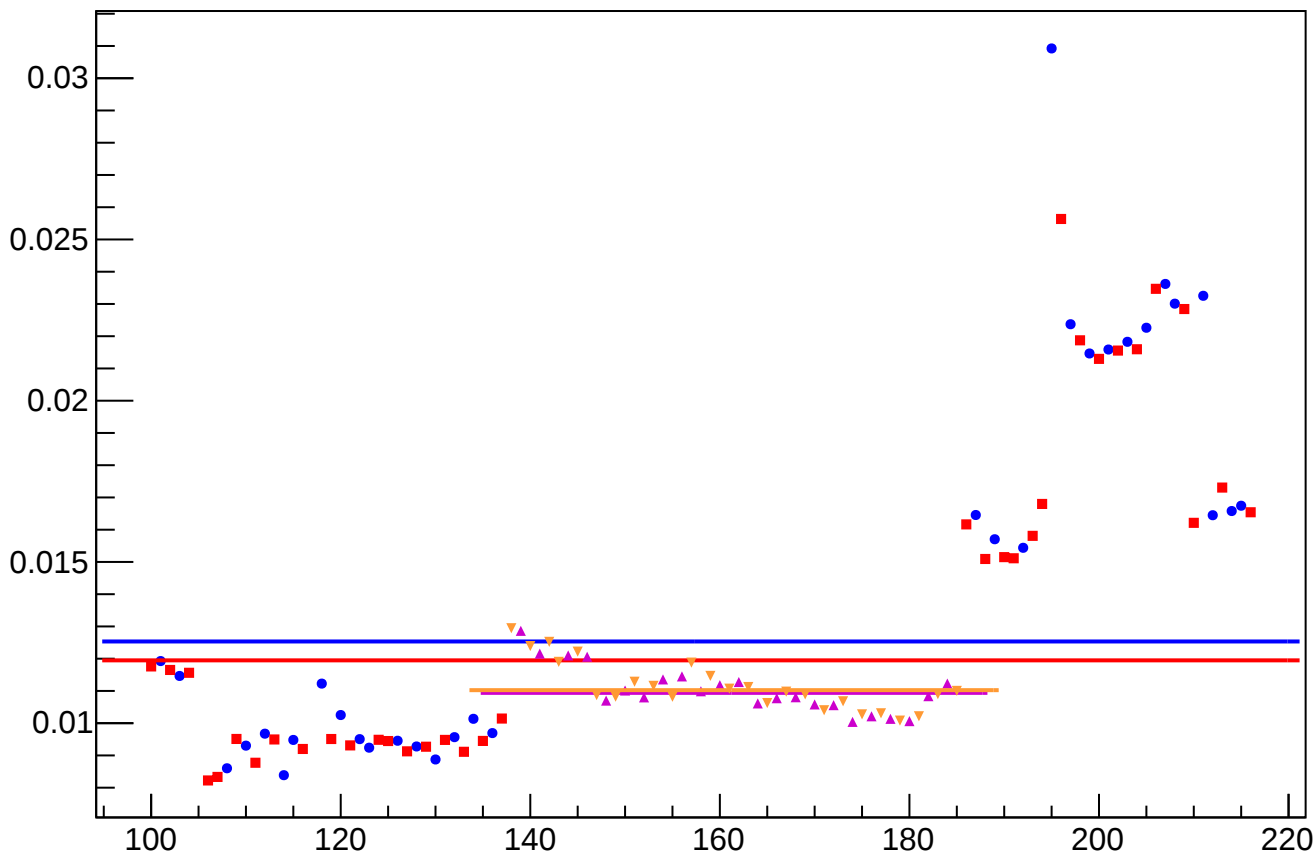
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.081+/-0.000

χ^2/NDF : 162202807797.6

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 : 4143282.9/34

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

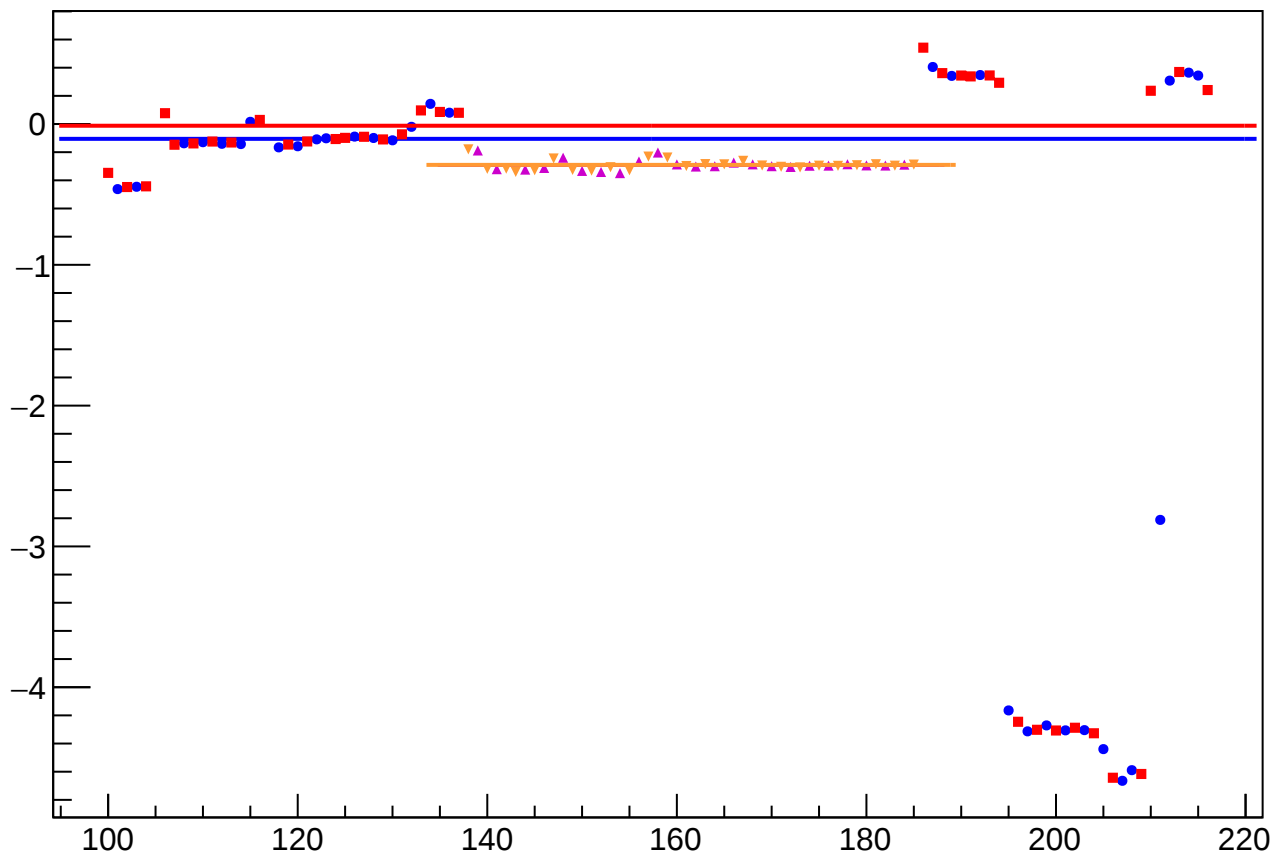
Right: 0.012+/-0.000 χ^2/NDF : 8643599.8/66

In: 0.012+/-0.000 χ^2/NDF :4879382.3/54

Out: 0.011+/-0.000 χ^2/NDF :4390513.8/59

All: 0.011+/-0.000 χ^2/NDF : 9276550.3/114

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: -0.012 ± 0.000 $\chi^2/\text{NDF}: 345864163740.6/34$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

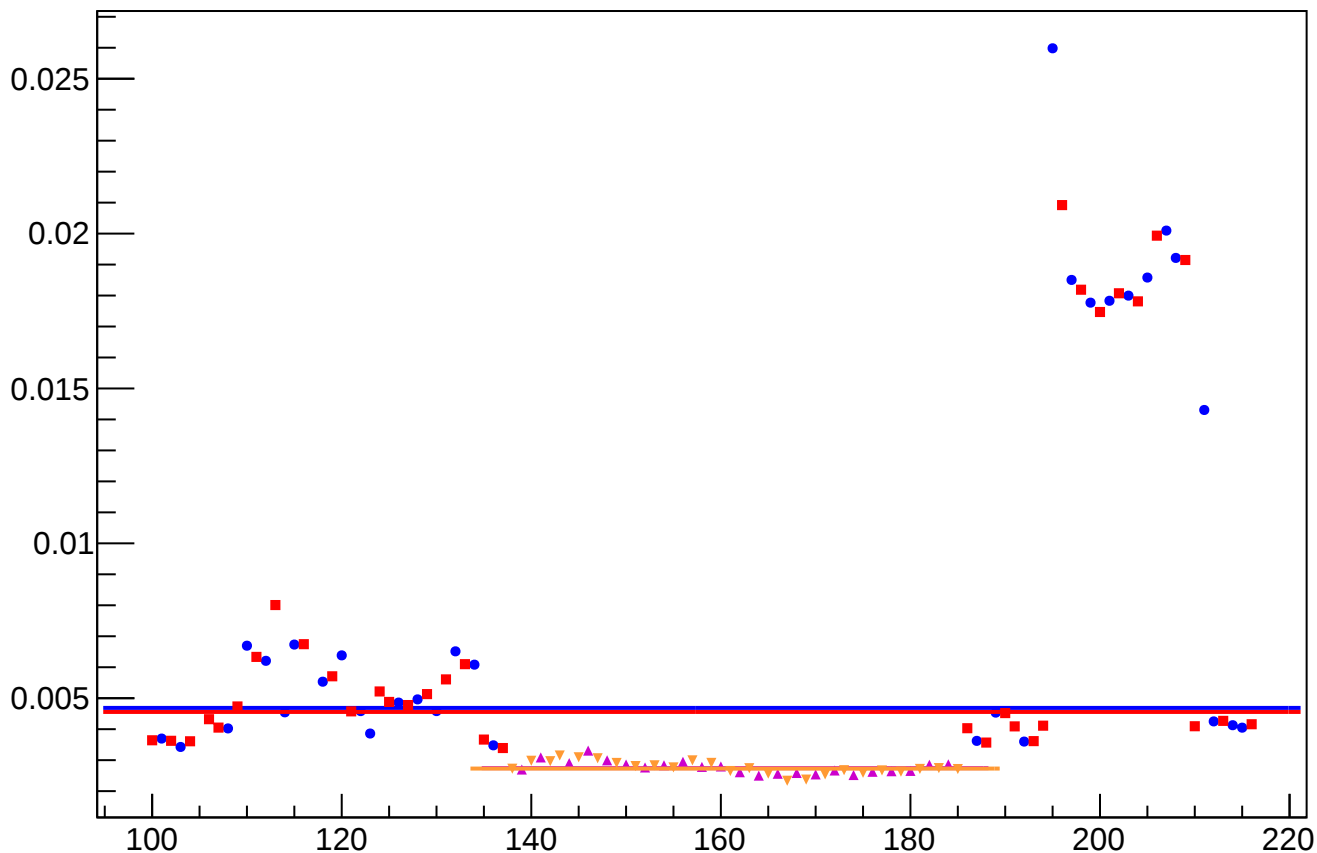
Right: -0.055 ± 0.000 $\chi^2/\text{NDF}: 736088105955.5/66$

In: -0.254 ± 0.000 $\chi^2/\text{NDF}: 405981831061.1/54$

Out: -0.231 ± 0.000 $\chi^2/\text{NDF}: 387725845744.9/59$

All: -0.242 ± 0.000 $\chi^2/\text{NDF}: 794464302976.5$

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 : 6975435.8/34

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

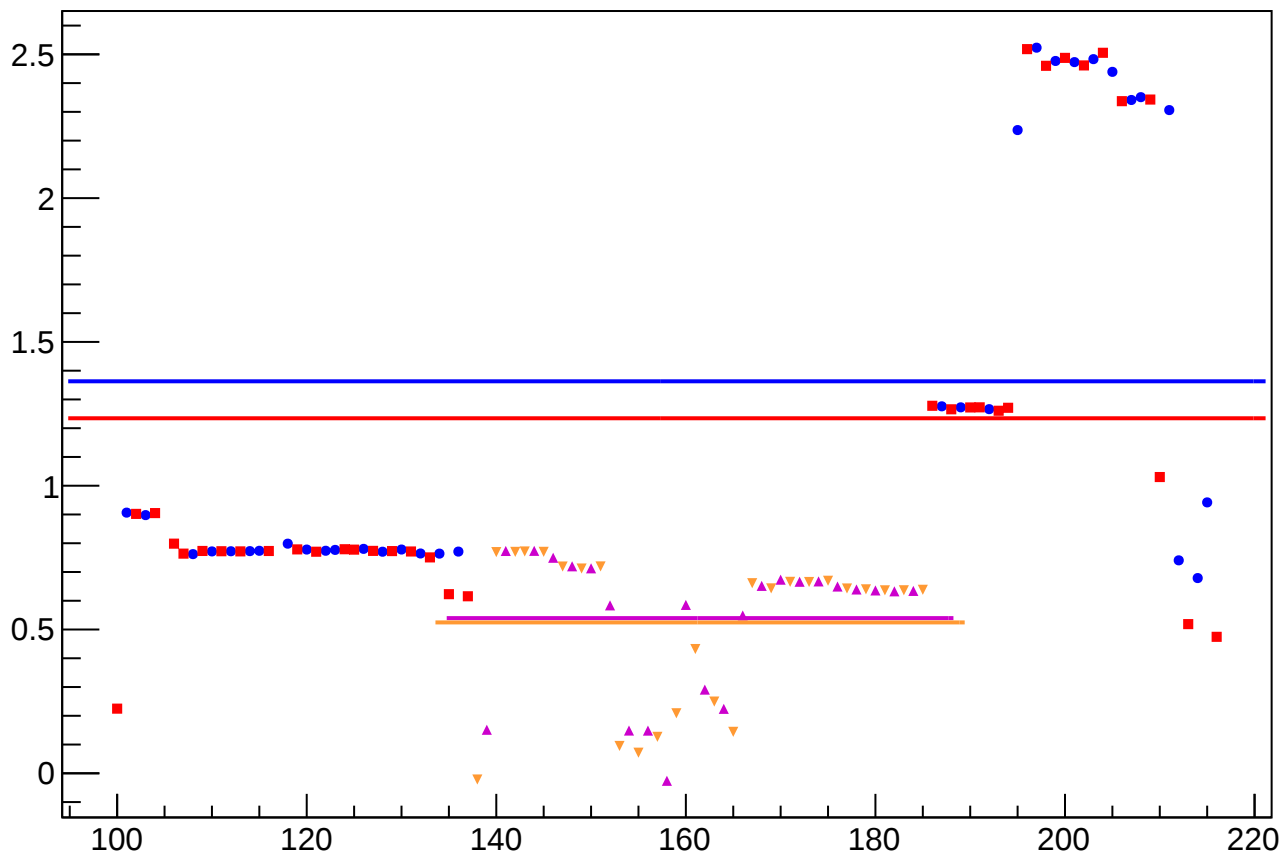
Right: 0.005+/-0.000 χ^2/NDF : 15566805.9/66

In: 0.003+/-0.000 χ^2/NDF :12061927.1/54

Out: 0.003+/-0.000 χ^2/NDF :10552736.7/59

All: 0.003+/-0.000 χ^2/NDF : 22615131.3/114

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.363+/-0.000 χ^2/NDF : 59276306343.5/31

Left Out: 0.525+/-0.000 χ^2/NDF : 9623503169.9/24

Right Out: 1.235+/-0.000 χ^2/NDF : 56101004442.5/34

Left In: 0.540+/-0.000 χ^2/NDF : 7860539135.5/22

Left: 0.532+/-0.000 χ^2/NDF : 17500739852.2/47

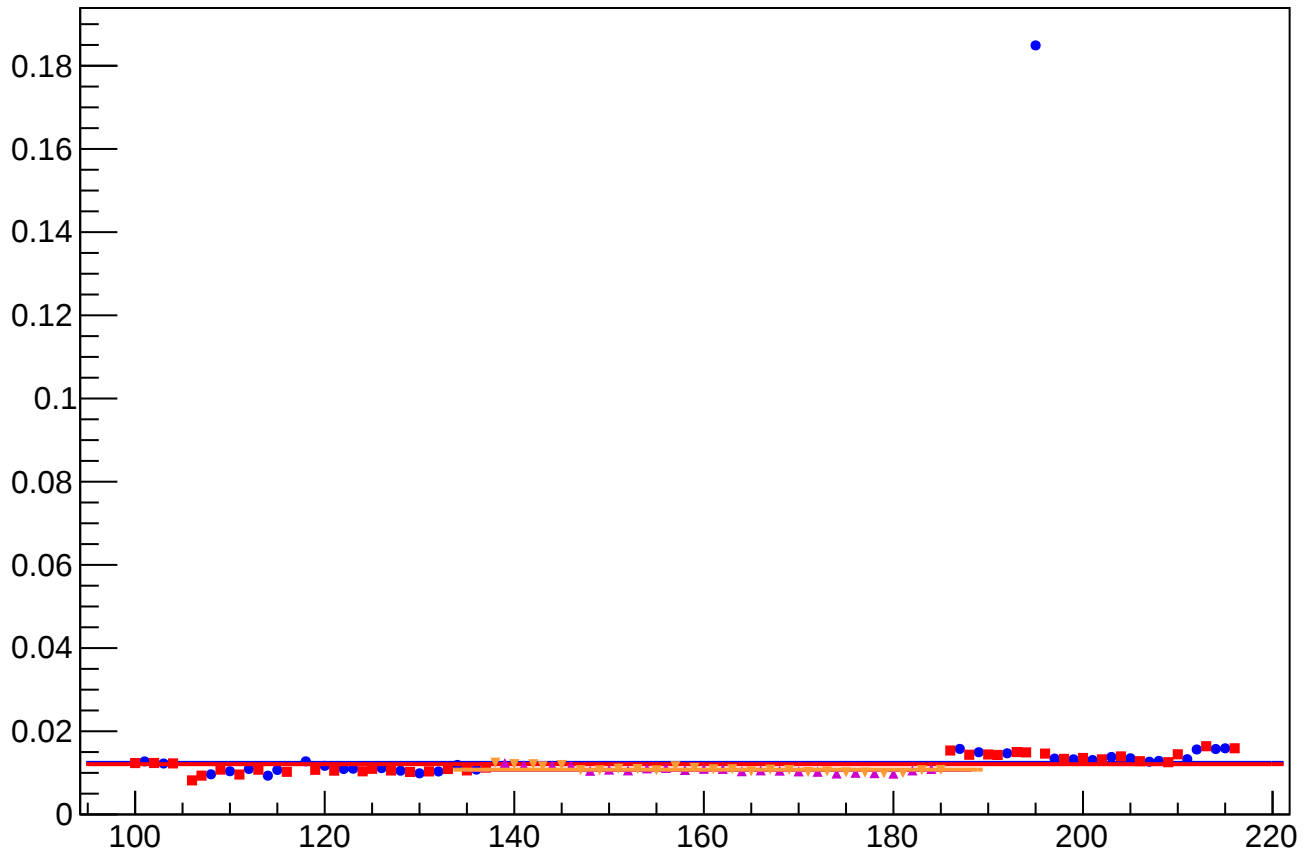
Right: 1.296+/-0.000 χ^2/NDF : 116267041088.2/66

In: 0.880+/-0.000 χ^2/NDF : 108104114202.9/54

Out: 0.826+/-0.000 χ^2/NDF : 98378727754.7/59

All: 0.853+/-0.000 χ^2/NDF : 206860000874.9

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 : 943342.9/34

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

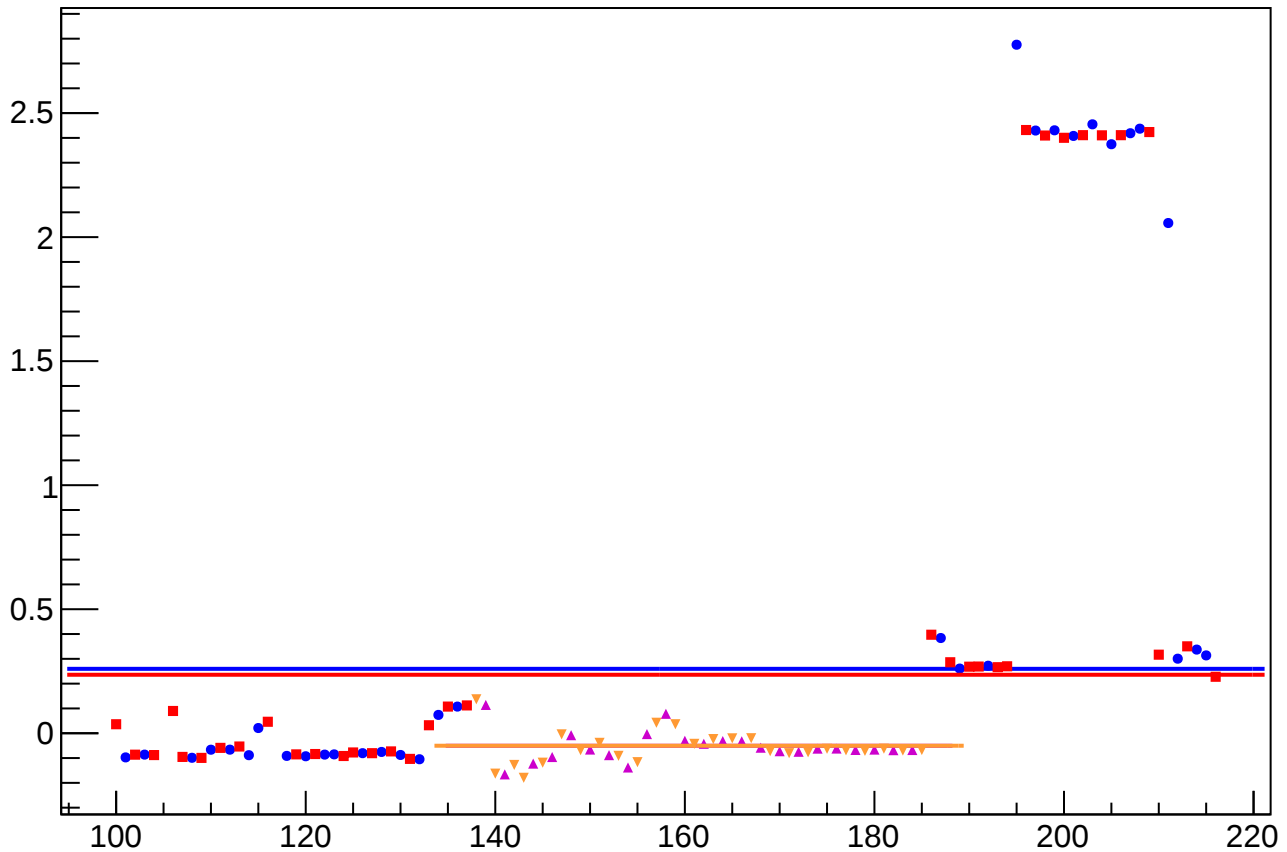
Right: 0.012+/-0.000 χ^2/NDF : 3068602.0/66

In: 0.011+/-0.000 χ^2/NDF :2585438.3/54

Out: 0.011+/-0.000 χ^2/NDF :1298050.9/59

All: 0.011+/-0.000 χ^2/NDF : 3884787.9/114

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 : 160226518939.1/34

Left In: -0.051+/-0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050+/-0.000 χ^2/NDF : 13400329490.2/47

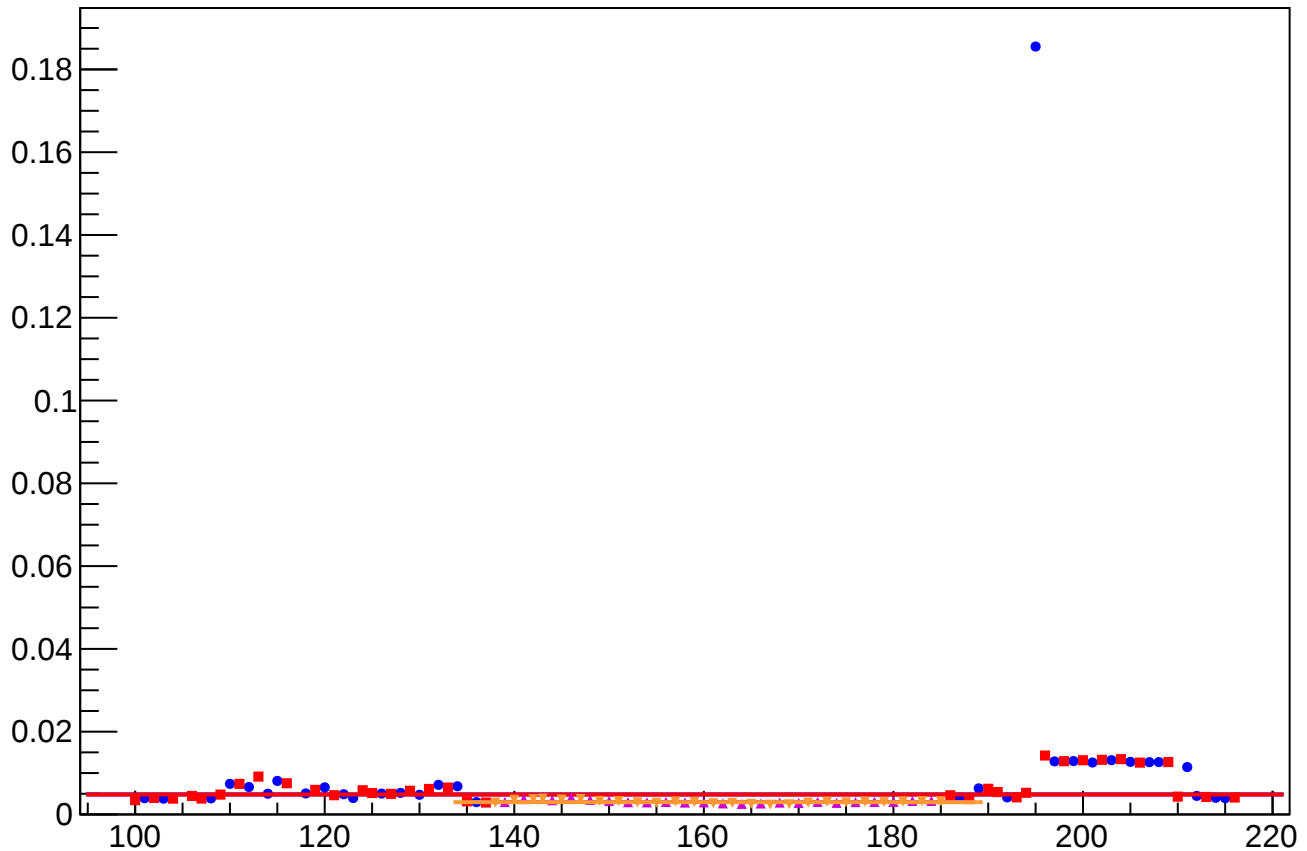
Right: 0.247+/-0.000 χ^2/NDF : 356296749134.8/66

In: 0.021+/-0.000 χ^2/NDF : 241424902727.7/54

Out: 0.015+/-0.000 χ^2/NDF : 203880818731.5/59

All: 0.018+/-0.000 χ^2/NDF : 445342293595.0

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 : 5195309.0/34

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

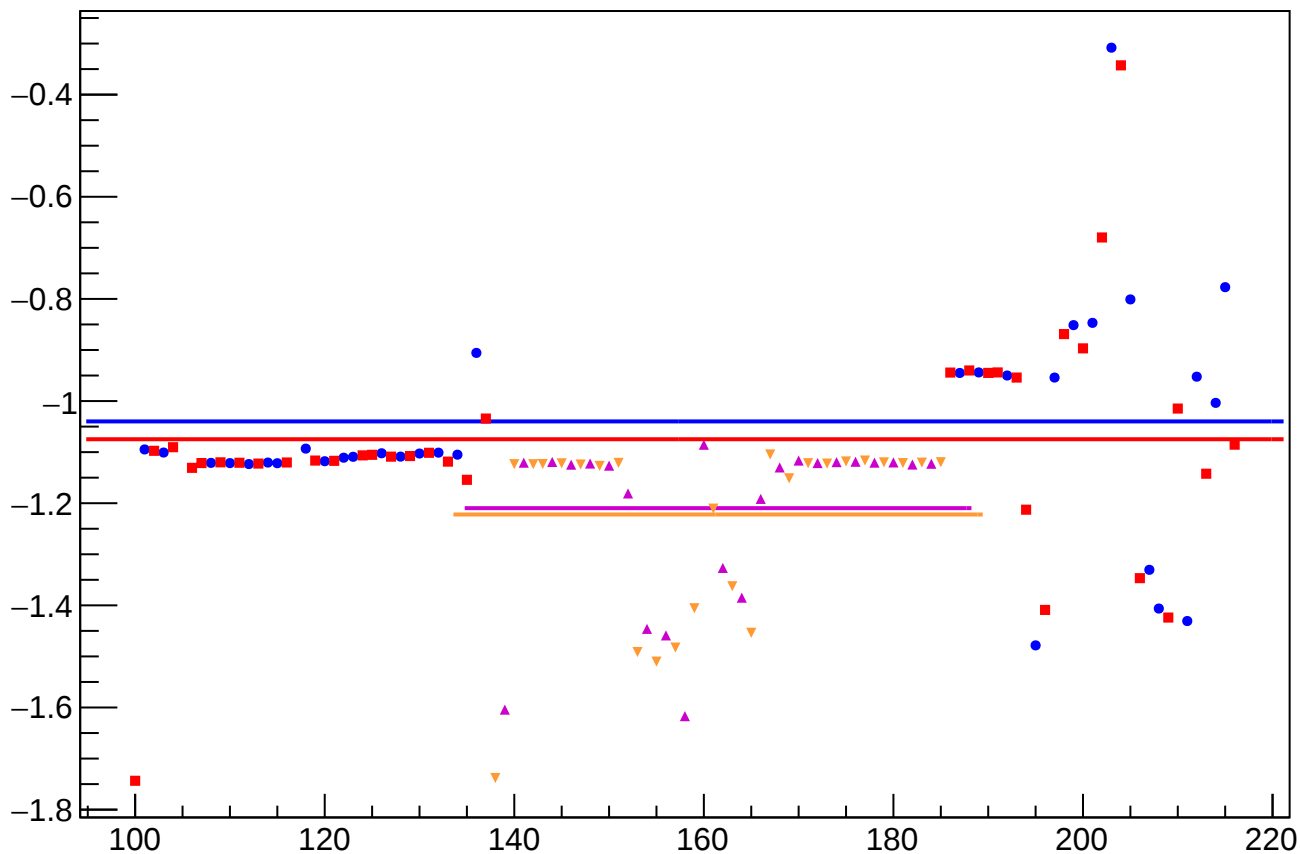
Right: 0.005+/-0.000 χ^2/NDF : 12642271.3/66

In: 0.003+/-0.000 χ^2/NDF : 10519975.3/54

Out: 0.003+/-0.000 χ^2/NDF : 8755490.6/59

All: 0.003+/-0.000 χ^2/NDF : 19278556.0/114

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.040 $\pm$ 0.000 χ^2/NDF : 5871868532.3/31

Left Out: -1.222 $\pm$ 0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.075 $\pm$ 0.000 χ^2/NDF : 4663075144.6/34

Left In: -1.210 $\pm$ 0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216 $\pm$ 0.000 χ^2/NDF : 9796254294.5/47

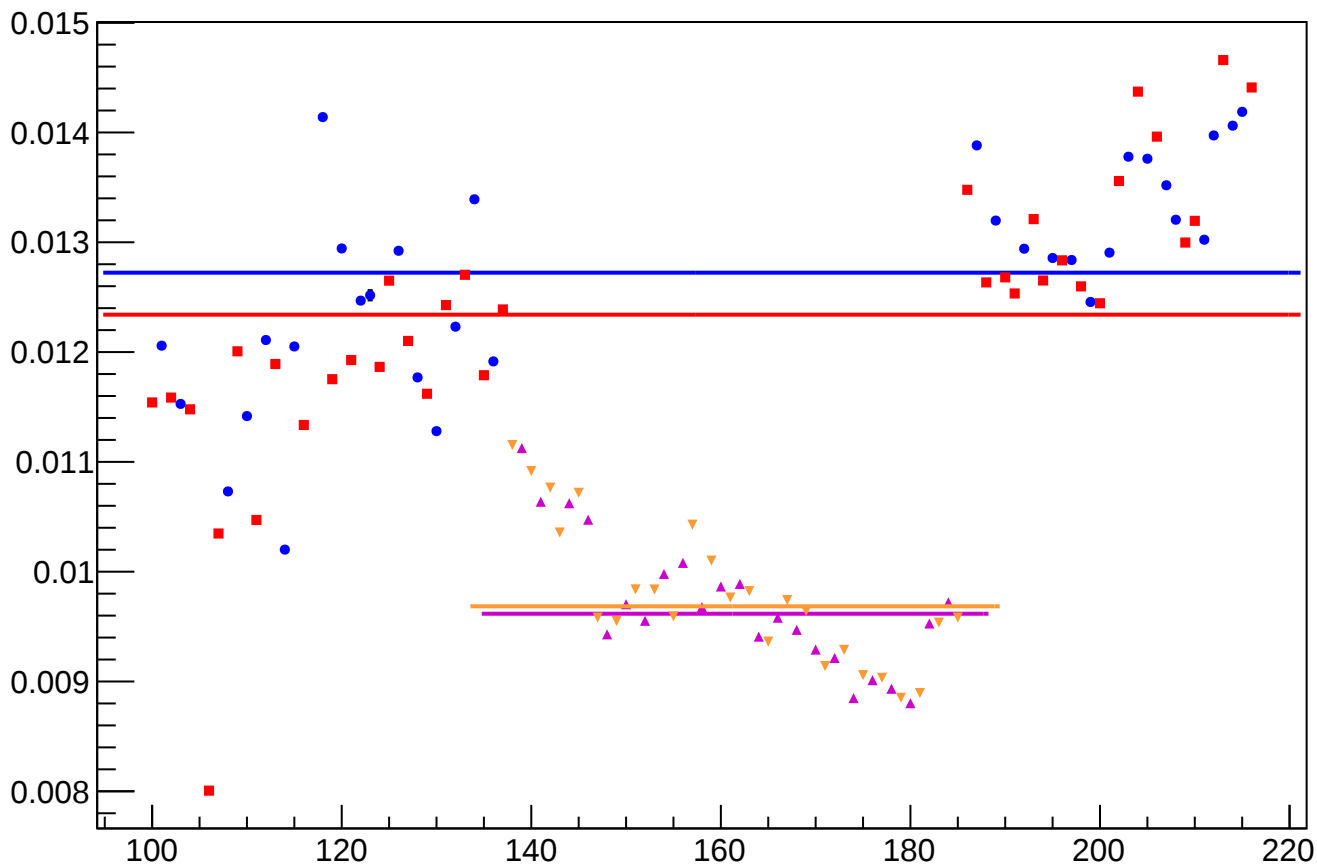
Right: -1.058 $\pm$ 0.000 χ^2/NDF : 10600871584.2/66

In: -1.148 $\pm$ 0.000 χ^2/NDF : 12276569756.7/54

Out: -1.167 $\pm$ 0.000 χ^2/NDF : 11481062582.4/59

All: -1.158 $\pm$ 0.000 χ^2/NDF : 23811300711.9/100

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 : 396468.8/34

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

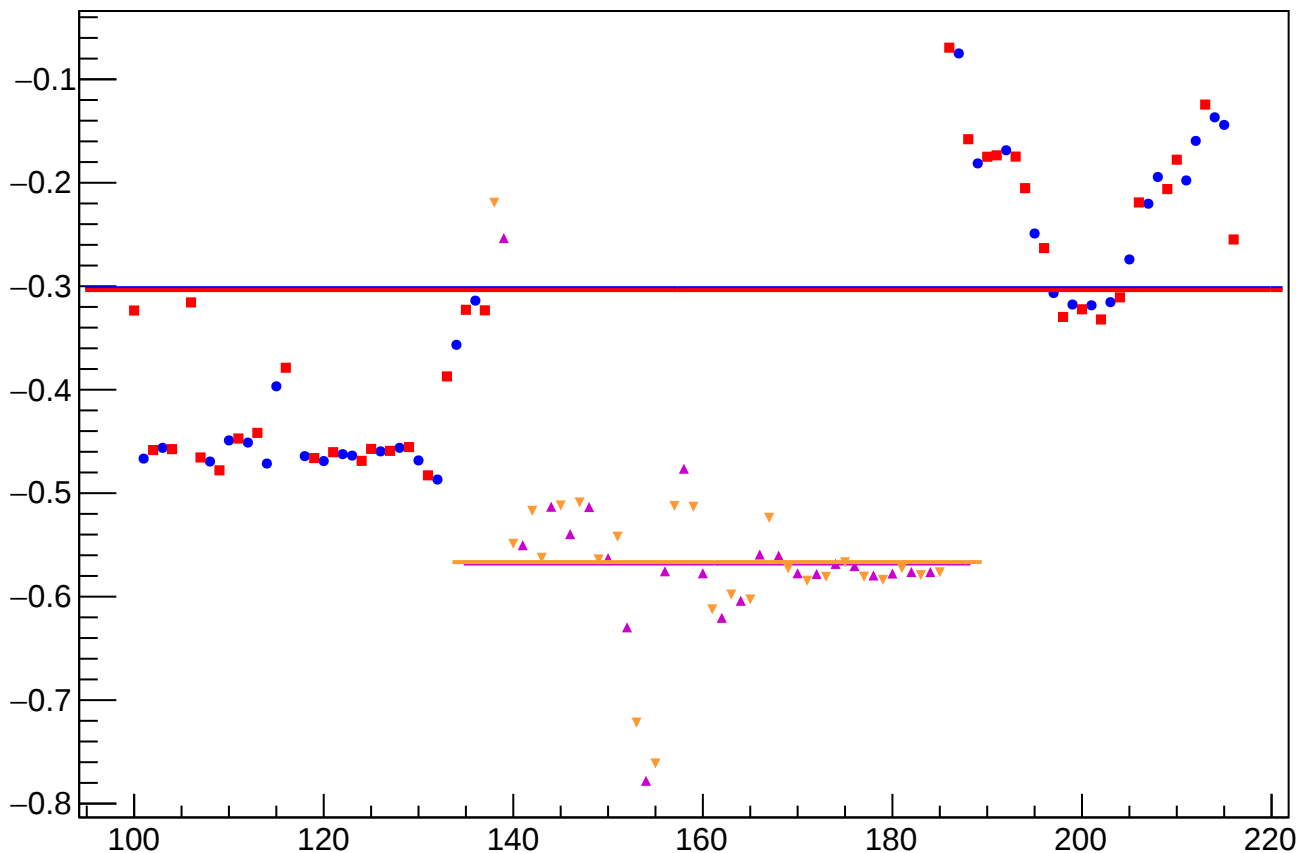
Right: 0.013+/-0.000 χ^2/NDF : 589507.7/66

In: 0.011+/-0.000 χ^2/NDF :1569653.5/54

Out: 0.011+/-0.000 χ^2/NDF :1530877.5/59

All: 0.011+/-0.000 χ^2/NDF : 3101938.9/114

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.302+/-0.000 χ^2/NDF : 14458347809.6/31

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.304+/-0.000 χ^2/NDF : 14426135361.2/34

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

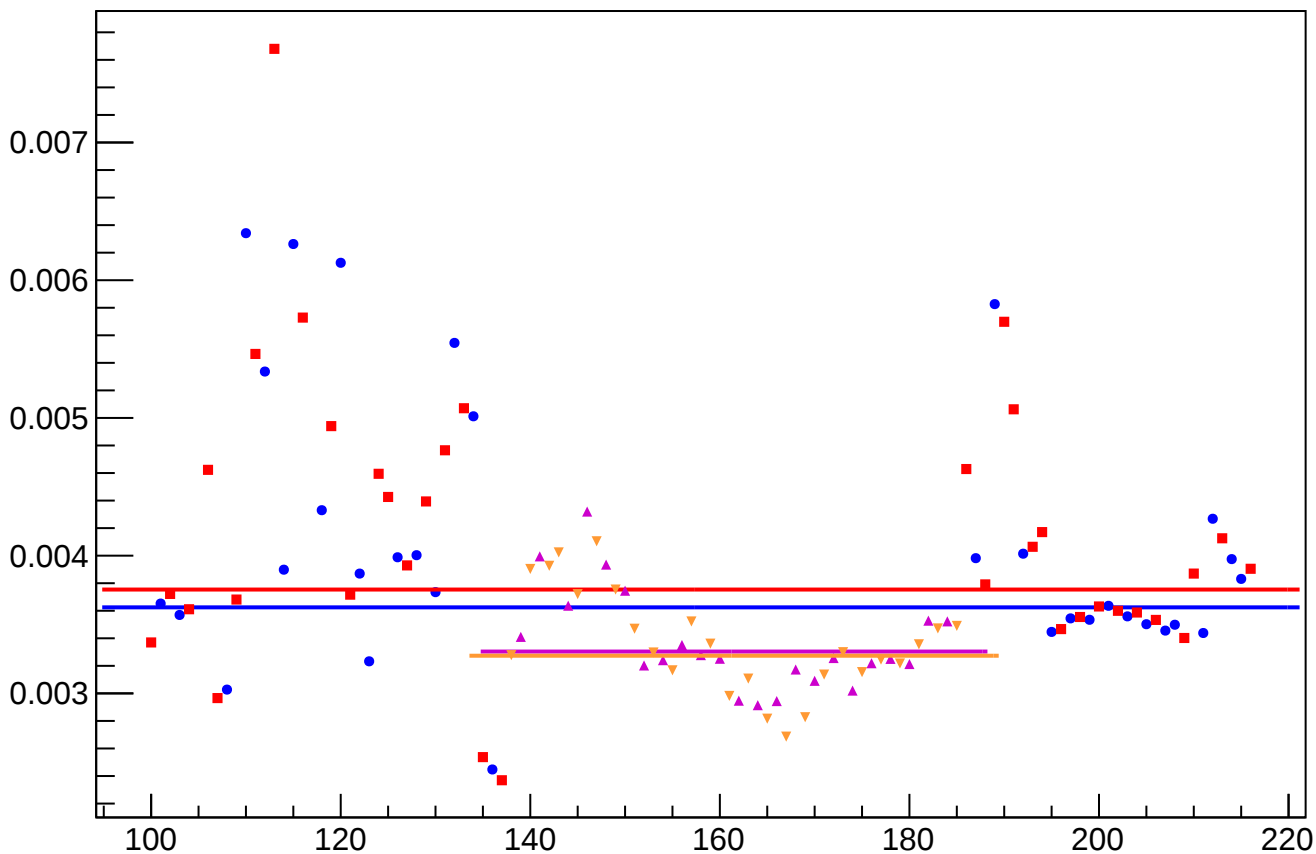
Right: -0.303+/-0.000 χ^2/NDF : 28886565650.9/66

In: -0.449+/-0.000 χ^2/NDF : 71643497212.4/54

Out: -0.457+/-0.000 χ^2/NDF : 73895048101.9/59

All: -0.453+/-0.000 χ^2/NDF : 145621206227.8

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 : 1100995.2/34

Left In: 0.003+/-0.000 χ^2/NDF :286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

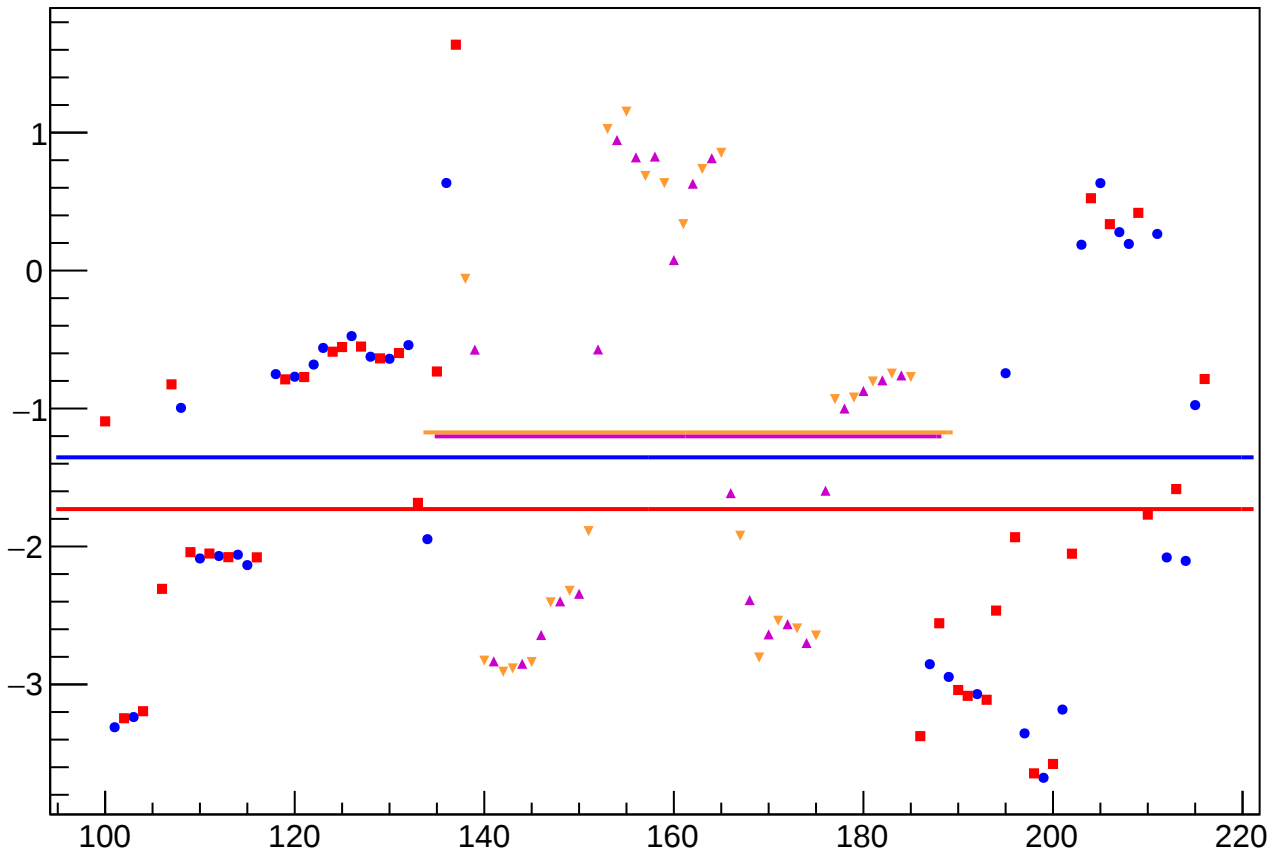
Right: 0.004+/-0.000 χ^2/NDF : 2172574.6/66

In: 0.003+/-0.000 χ^2/NDF :1474002.1/54

Out: 0.003+/-0.000 χ^2/NDF :1804033.0/59

All: 0.003+/-0.000 χ^2/NDF : 3279970.3/114

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.354+/-0.000 χ^2/NDF : 6237618386.9/31

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.729+/-0.000 χ^2/NDF : 5291304014.6/34

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

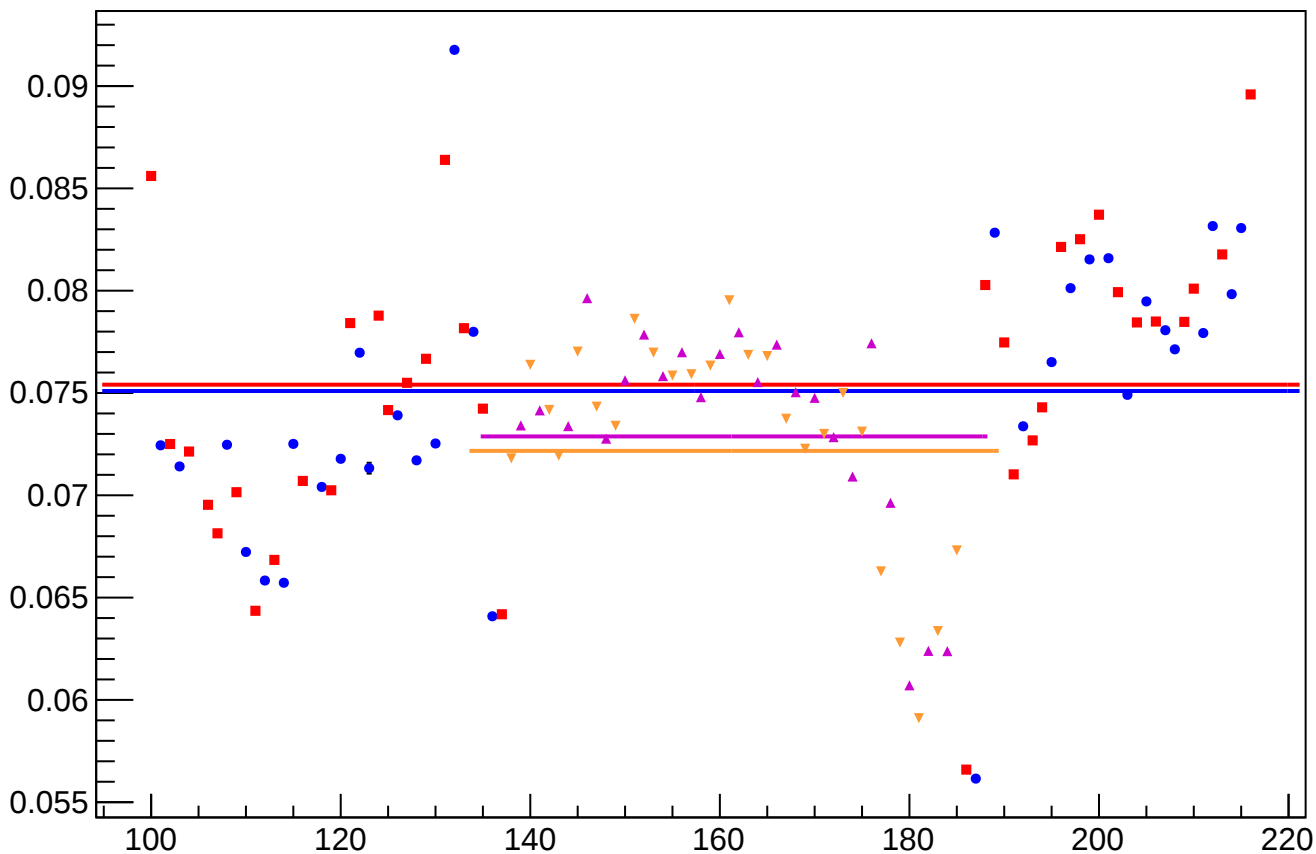
Right: -1.544+/-0.000 χ^2/NDF : 11744074224.8/66

In: -1.276+/-0.000 χ^2/NDF : 11880317586.8/54

Out: -1.435+/-0.000 χ^2/NDF : 12678564249.4/59

All: -1.358+/-0.000 χ^2/NDF : 24640268826.0/100

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 : 284382.4/34

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

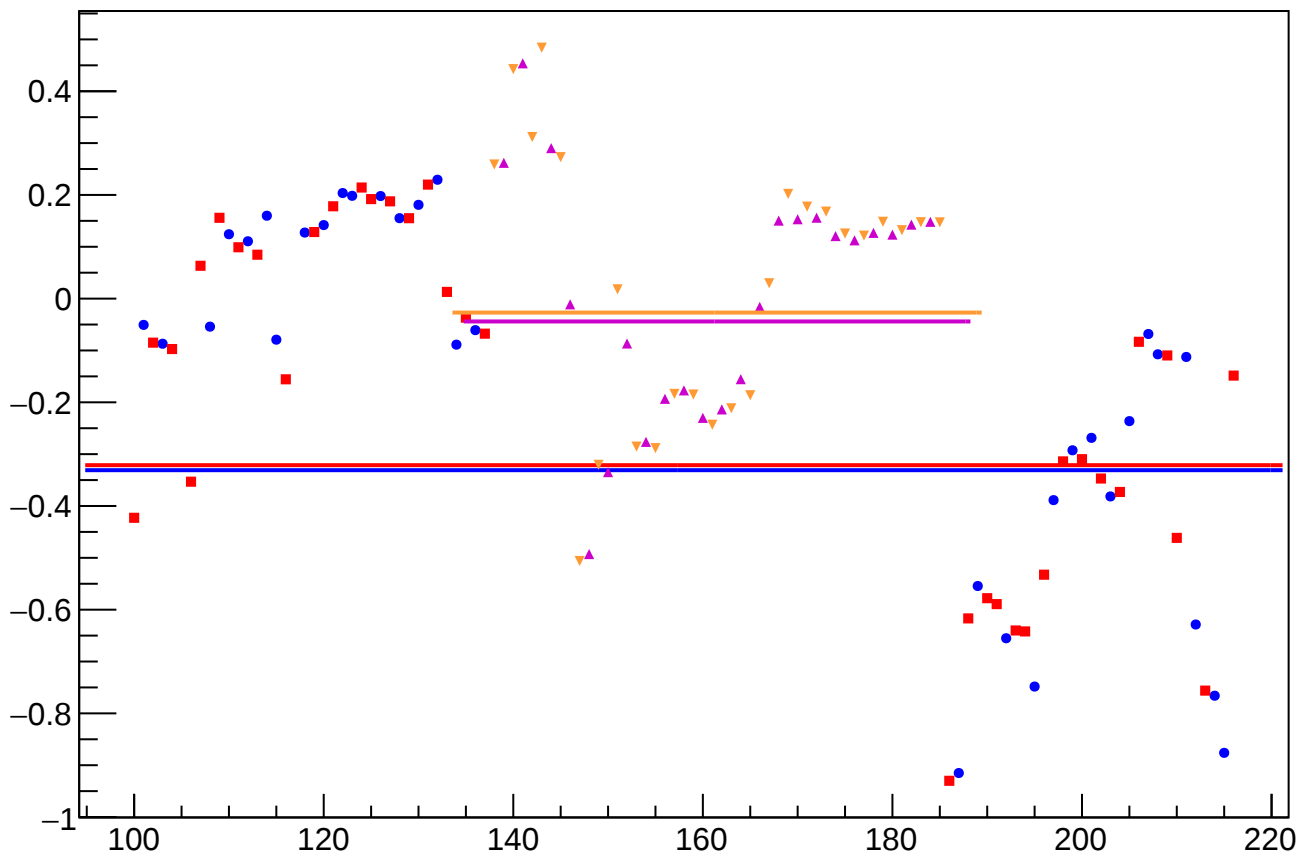
Right: 0.075+/-0.000 χ^2/NDF : 515341.9/66

In: 0.074+/-0.000 χ^2/NDF :429469.2/54

Out: 0.074+/-0.000 χ^2/NDF :540839.9/59

All: 0.074+/-0.000 χ^2/NDF : 970736.9/114

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: -0.321+/-0.000 χ^2/NDF : 15800723352.0/34

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

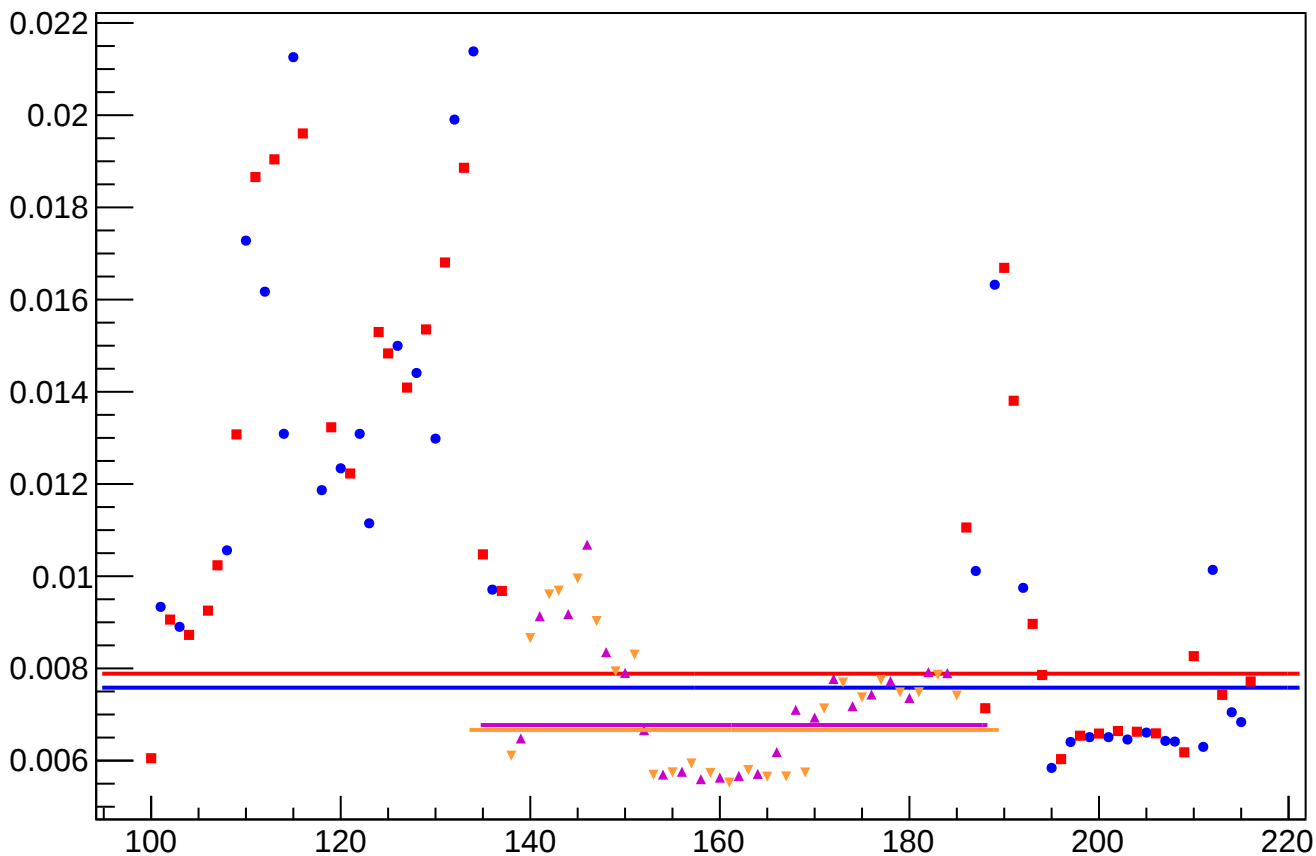
Right: -0.326+/-0.000 χ^2/NDF : 38453115883.6/66

In: -0.167+/-0.000 χ^2/NDF : 50550564936.1/54

Out: -0.141+/-0.000 χ^2/NDF : 48912022757.1/59

All: -0.154+/-0.000 χ^2/NDF : 99666745204.5/116

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 : 3080389.4/34

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

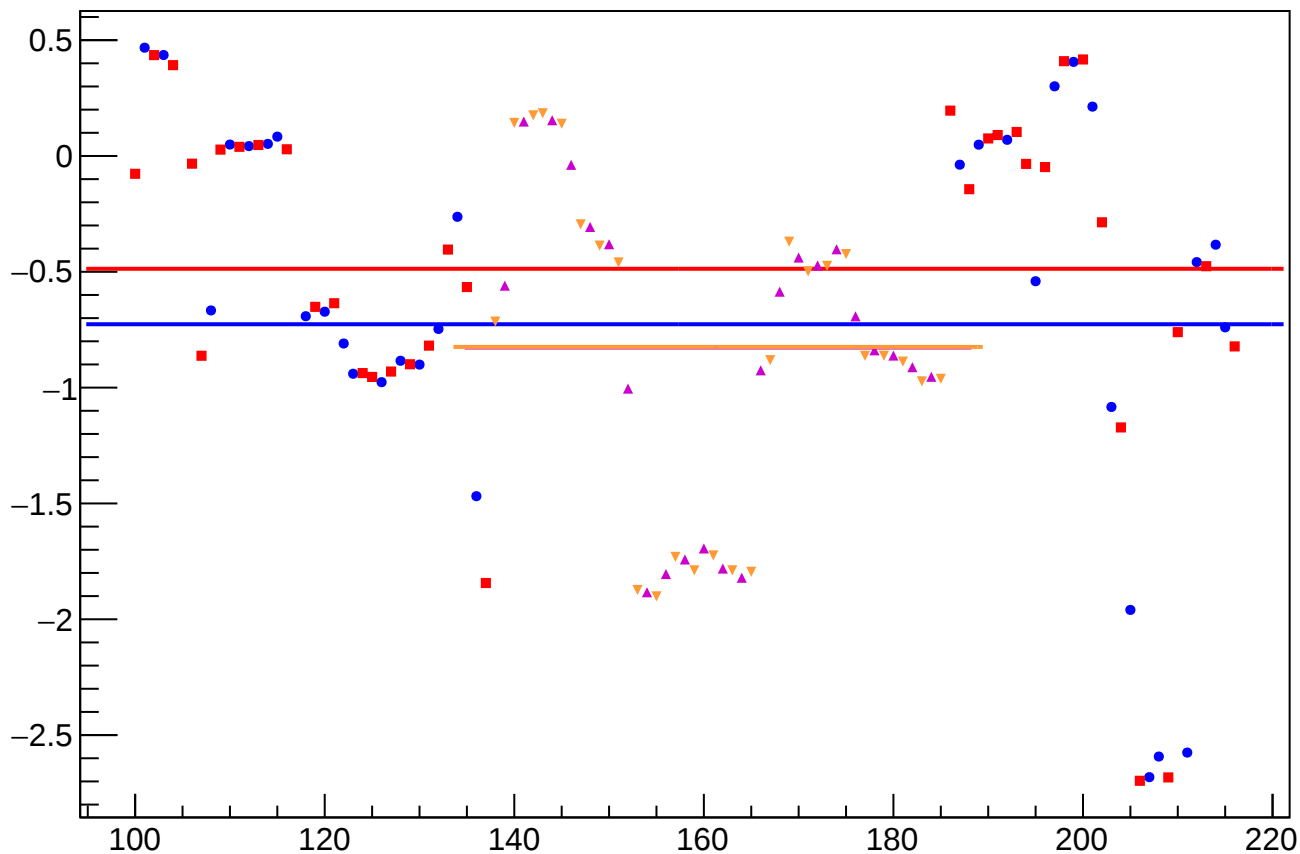
Right: 0.008+/-0.000 χ^2/NDF : 6066481.1/66

In: 0.007+/-0.000 χ^2/NDF :4091917.8/54

Out: 0.007+/-0.000 χ^2/NDF :4661160.0/59

All: 0.007+/-0.000 χ^2/NDF : 8753336.9/114

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.726 ± 0.000 $\chi^2/\text{NDF}: 1766746051.3/31$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.487 ± 0.000 $\chi^2/\text{NDF}: 1481047032.0/34$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

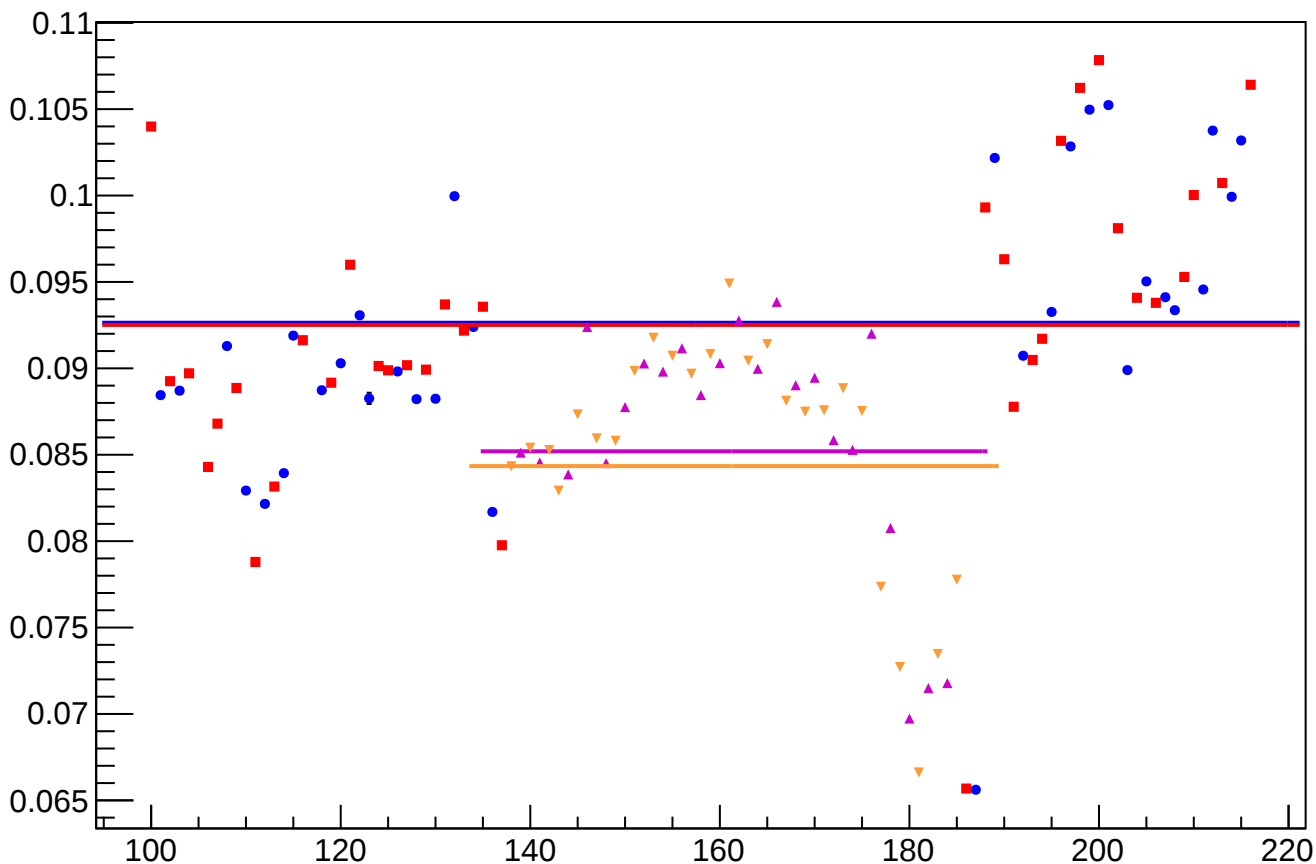
Right: -0.605 ± 0.000 $\chi^2/\text{NDF}: 3306236807.6/66$

In: -0.781 ± 0.000 $\chi^2/\text{NDF}: 2699354508.8/54$

Out: -0.673 ± 0.000 $\chi^2/\text{NDF}: 2714818723.9/59$

All: -0.725 ± 0.000 $\chi^2/\text{NDF}: 5440146504.4/1$

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: 0.093 $\pm$ 0.000 χ^2 /NDF: 327231.5/34

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

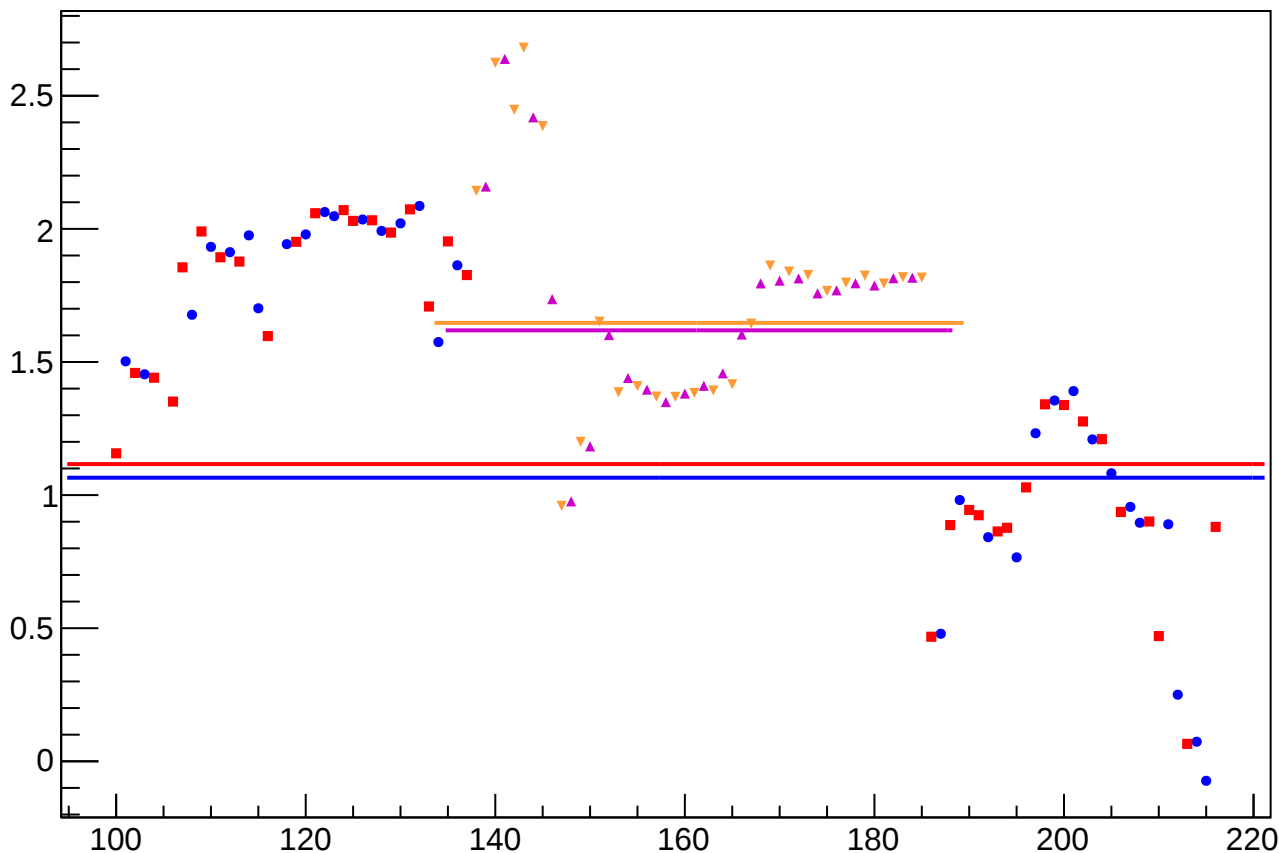
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 564237.4/66

In: 0.089 $\pm$ 0.000 χ^2 /NDF:595269.7/54

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:768341.8/59

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1365319.1/114

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: 1.116+/-0.000 χ^2/NDF : 24408117387.0/34

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

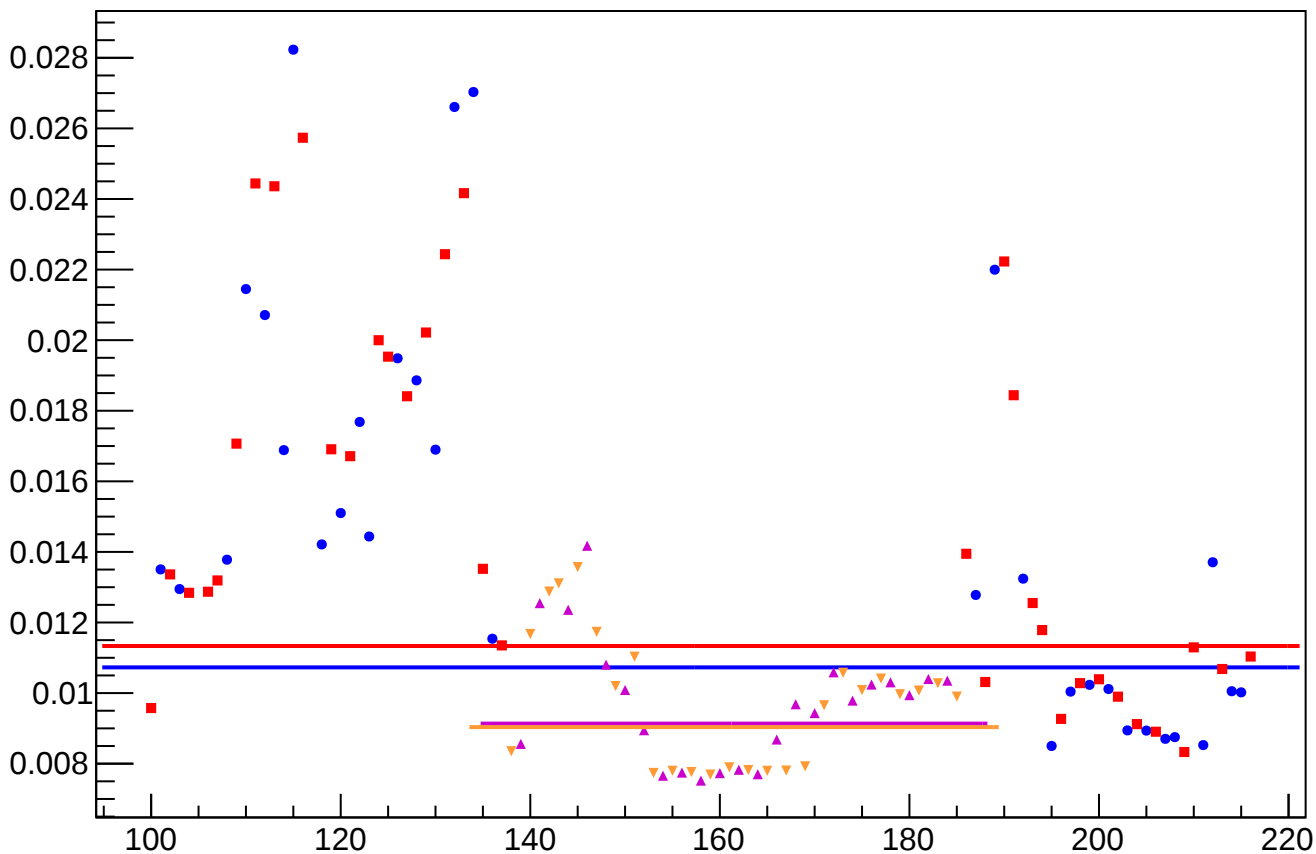
Right: 1.090+/-0.000 χ^2/NDF : 61442879043.5/66

In: 1.393+/-0.000 χ^2/NDF : 81420873805.1/54

Out: 1.454+/-0.000 χ^2/NDF : 72239345446.8/59

All: 1.424+/-0.000 χ^2/NDF : 154262147881.7

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 : 2530872.0/34

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

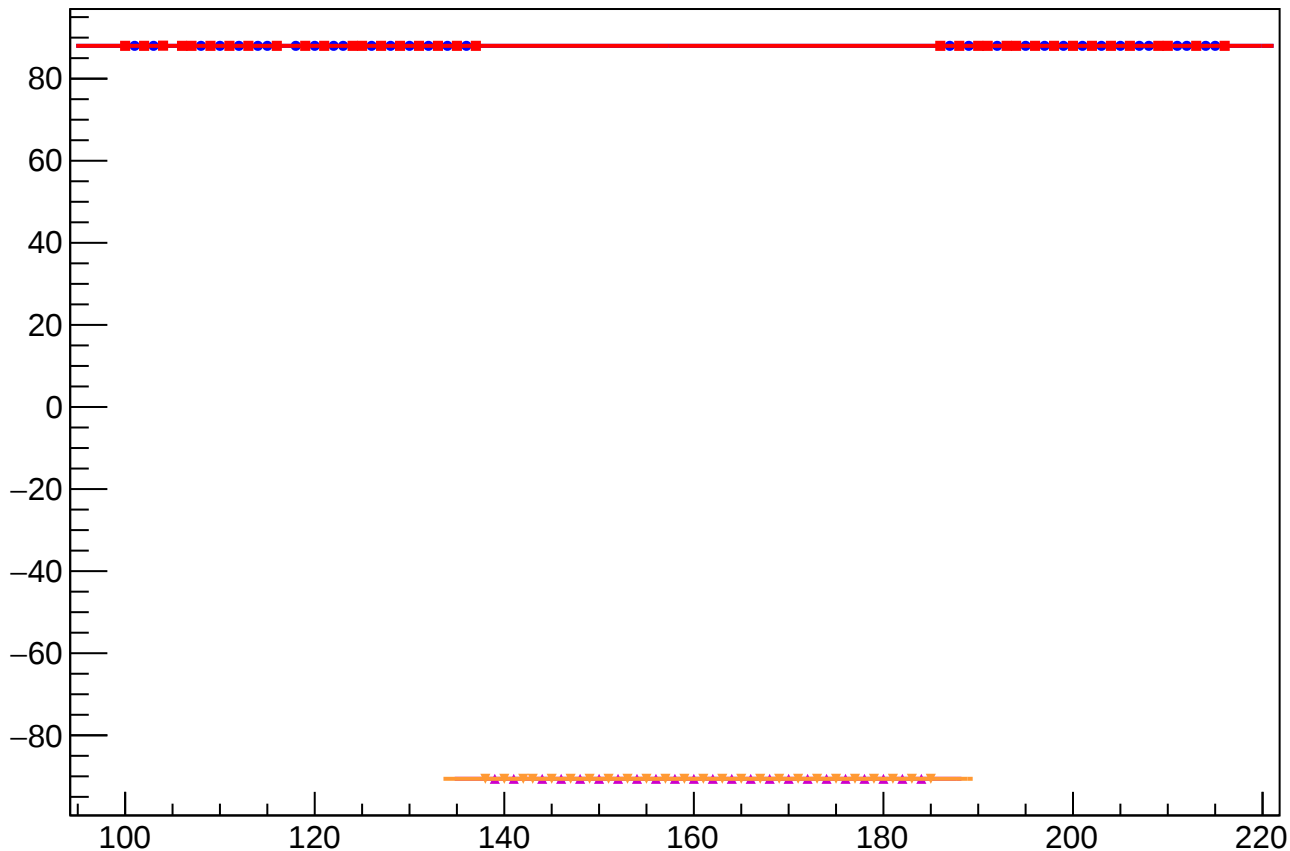
Right: 0.011+/-0.000 χ^2/NDF : 5003731.9/66

In: 0.010+/-0.000 χ^2/NDF :3702001.3/54

Out: 0.010+/-0.000 χ^2/NDF :4373404.6/59

All: 0.010+/-0.000 χ^2/NDF : 8077857.2/114

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 : 81125850602294421993130295296.0/34

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

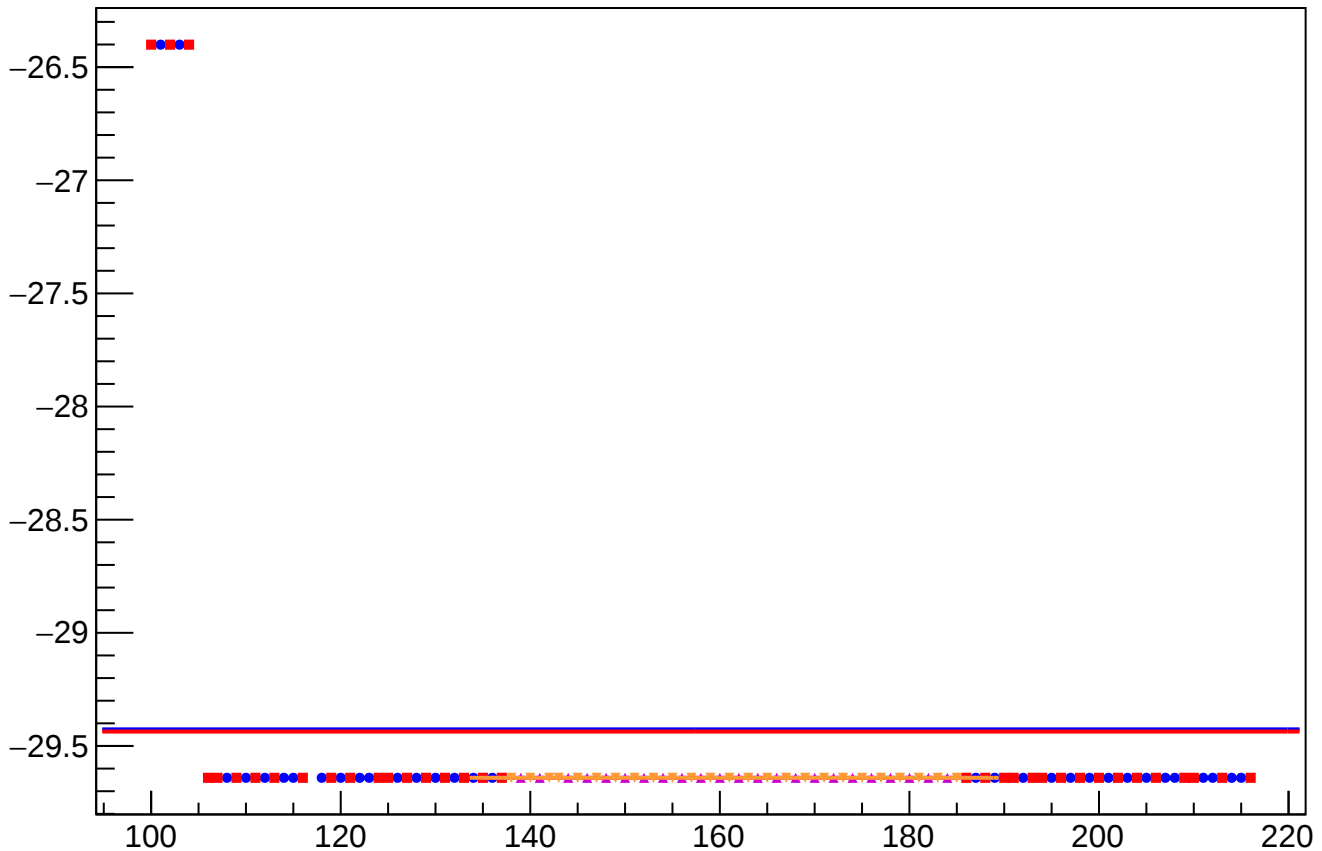
Right: 88.001+/-0.000 χ^2/NDF : 8226593071153677

In: -1.549+/-0.000 χ^2/NDF : 285644005532551347

Out: -2.873+/-0.000 χ^2/NDF : 29847587553187595

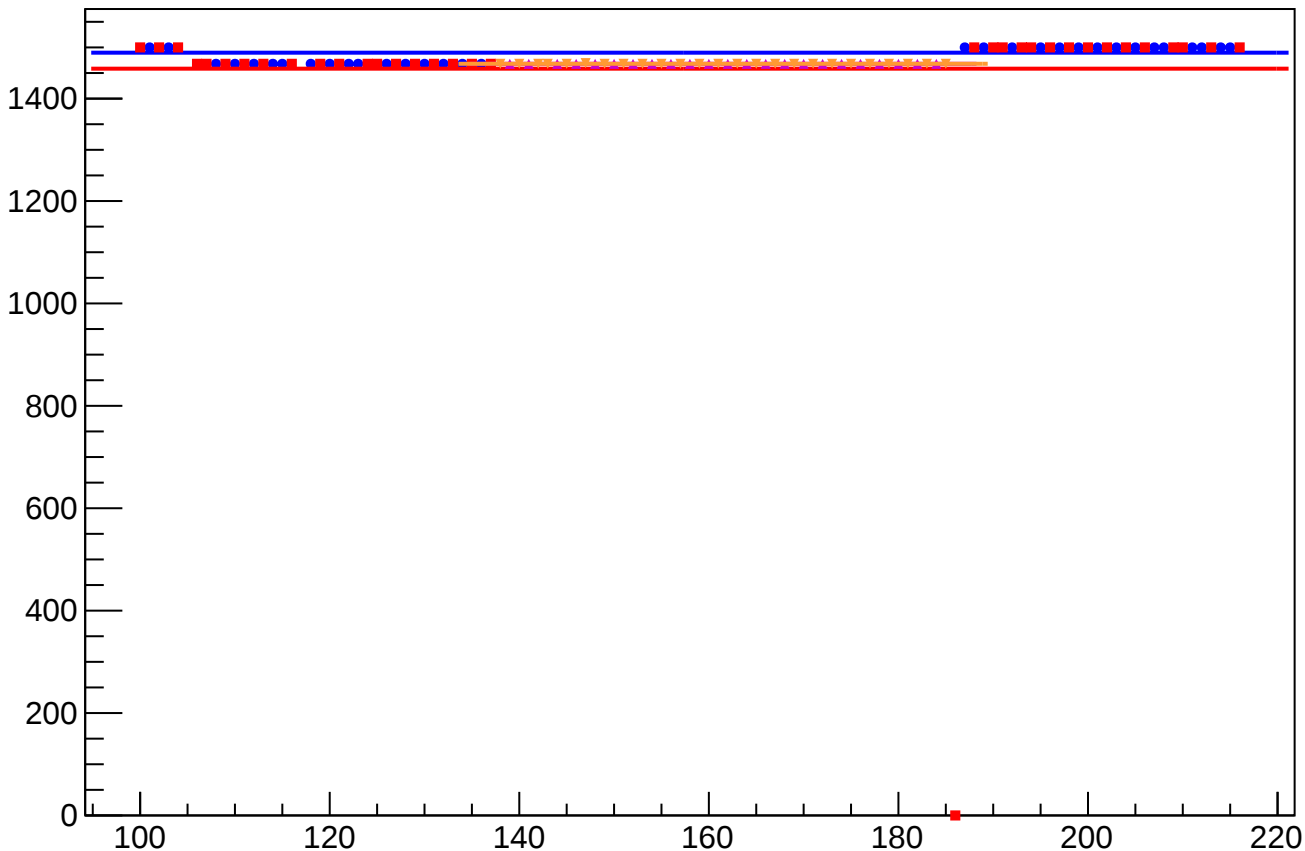
All: -2.225+/-0.000 χ^2/NDF : 5841519878790

epics_HWienAngles_mean vs Slug, Sign Corrected



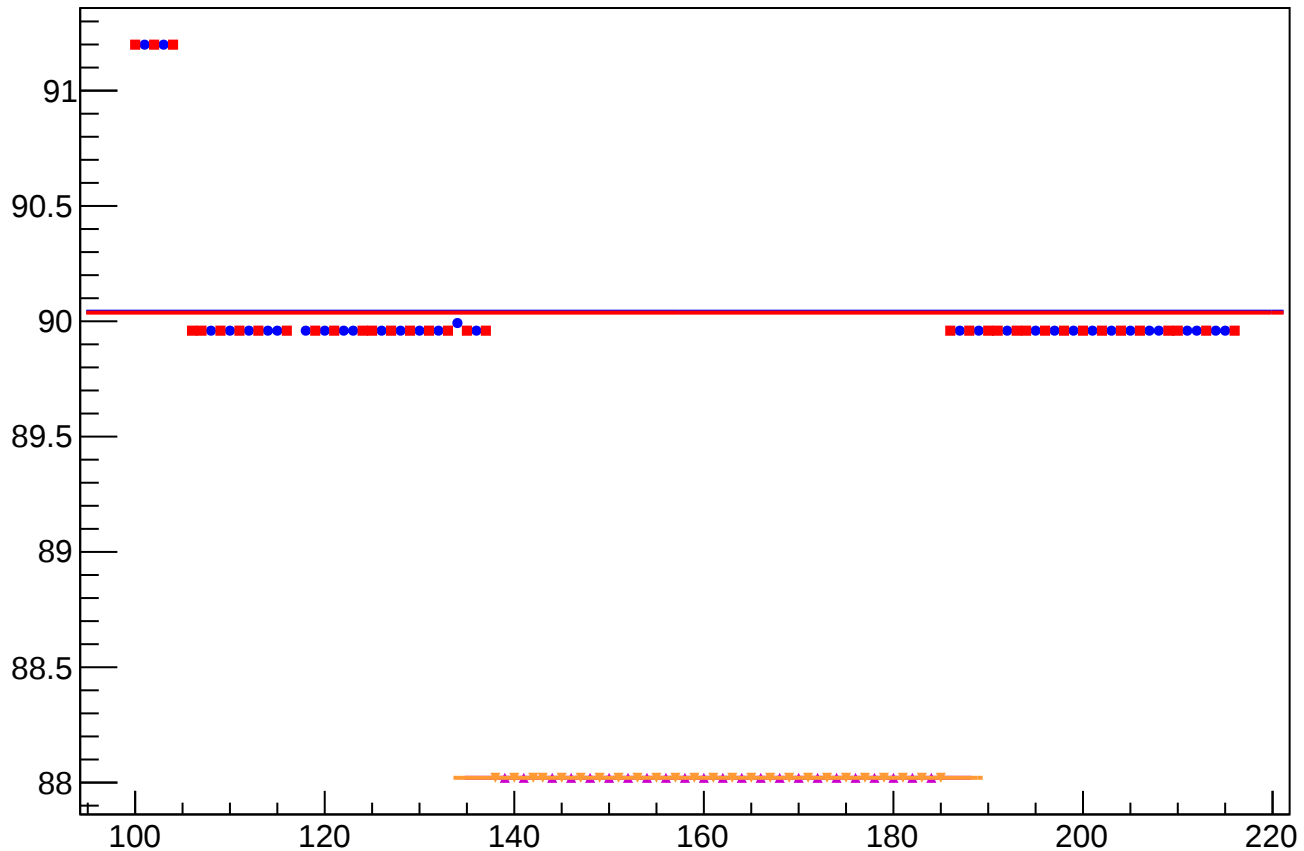
Right In: -29.427+/-0.000 χ^2/NDF : 1156875488465837222566731962122240.0/31
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.436+/-0.000 χ^2/NDF : 1140910449592154639372528809672704.0/34
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.534+/-0.000 χ^2/NDF : 11979103839195814
 Out: -29.540+/-0.000 χ^2/NDF : 1179993046153818
 All: -29.537+/-0.000 χ^2/NDF : 237797722260

epics_psub_pl_pos_mean vs Slug, Sign Corrected



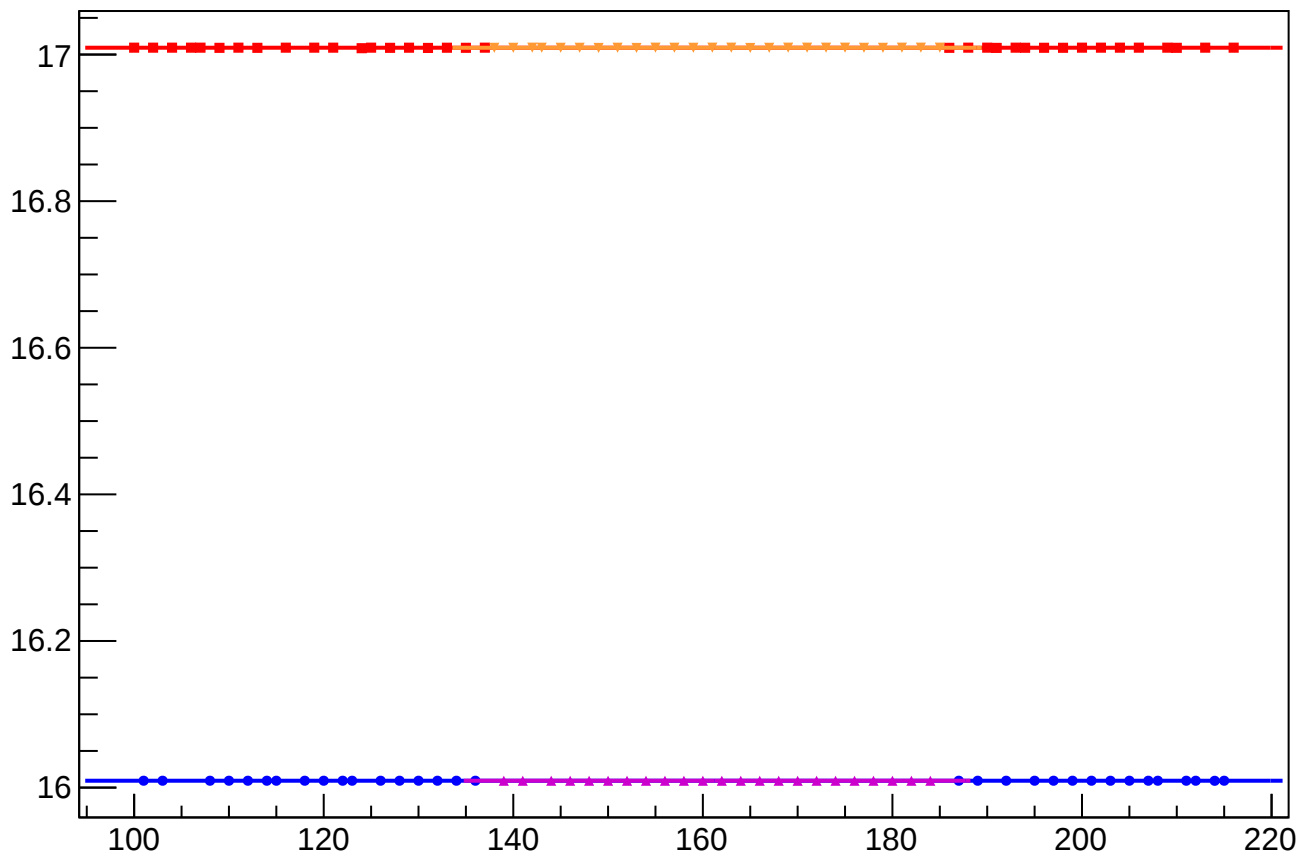
Right In: 1489.728+/-0.000	χ^2/NDF : 399049221026877405853629807985688576.0/31	Left: 1468.022+/-0.000	χ^2/NDF : 13080781775346
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1473.880+/-0.000	χ^2/NDF : 84232525619124
Right Out: 1458.489+/-0.000	χ^2/NDF : 82949282863264681535932743834442661888.0/34	In: 1478.830+/-0.000	χ^2/NDF : 8220463354809437
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1463.353+/-0.000	χ^2/NDF : 830349146183941
	All: 1470.920+/-0.000		χ^2/NDF : 84295503432

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.042+/-0.000 χ^2/NDF : 169358323208848618303207654817792.0/31
 Left Out: 88.021+/-0.000 χ^2/NDF : 5679798.5/24
 Right Out: 90.038+/-0.000 χ^2/NDF : 167110949864102130812998660390912.0/34
 Left In: 88.021+/-0.000 χ^2/NDF : 6257169.0/22
 In: 89.028+/-0.000 χ^2/NDF : 382661531845199824.0/31
 Out: 89.011+/-0.000 χ^2/NDF : 39731296286350519.0/31
 All: 89.020+/-0.000 χ^2/NDF : 7800274277000.0/31

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000

χ^2/NDF : 845024157249485972439040.0/31

Left: 16.524+/-0.000

χ^2/NDF : 85855870772921272

Right: 16.512+/-0.000

χ^2/NDF : 8813636846126803

Left Out: 17.009+/-0.000

χ^2/NDF : 26194929080144976634970112.0/24

In: 16.009+/-0.000

χ^2/NDF : 989214338588838476

Right Out: 17.009+/-0.000

χ^2/NDF : 20876944263678480678387712.0/34

Out: 17.009+/-0.000

χ^2/NDF : 48413303067717969

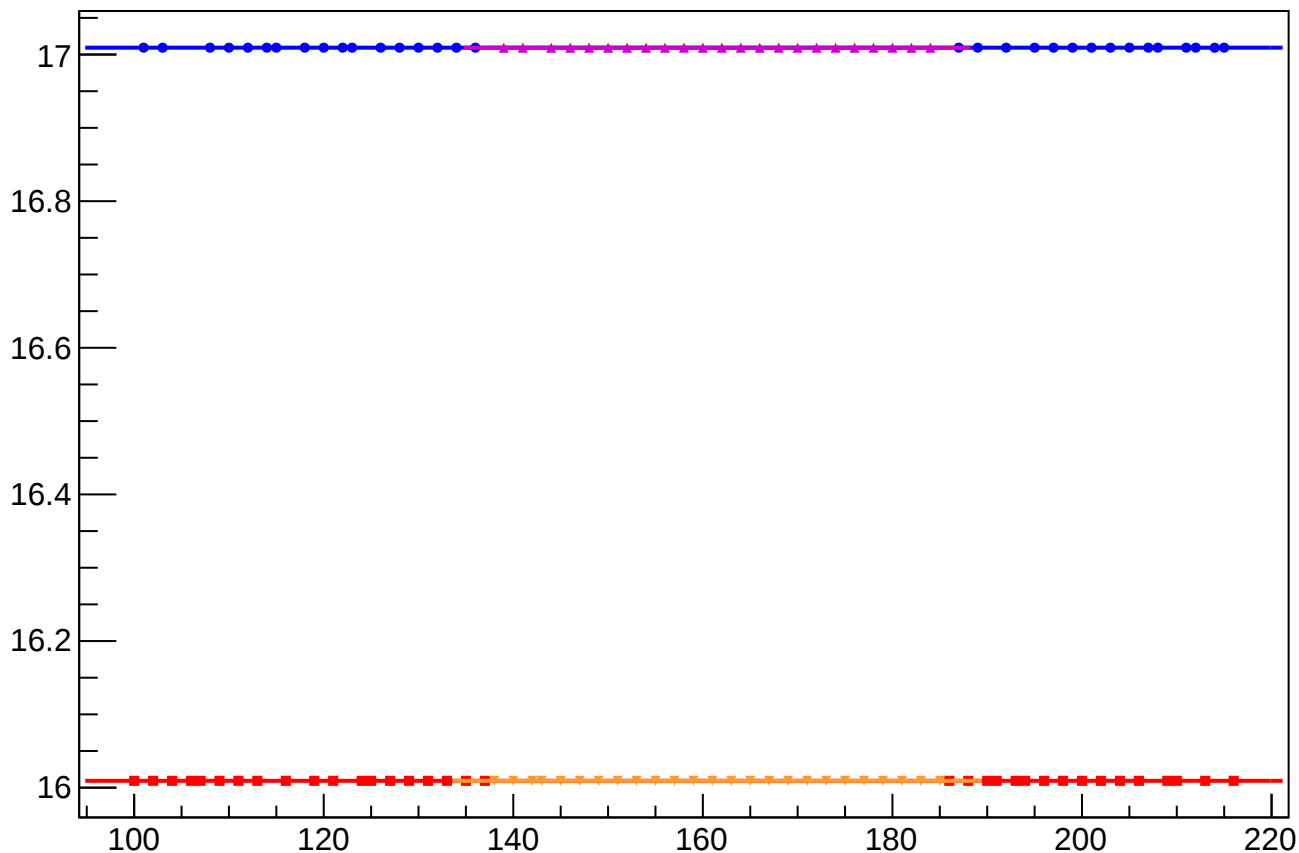
Left In: 16.009+/-0.000

χ^2/NDF : 127920993667935400624128.0/22

All: 16.518+/-0.000

χ^2/NDF : 1740184165305

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 : 9068334923397445

Right: 16.498+/-0.000

χ^2/NDF : 8960646760053142

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

In: 17.009+/-0.000

χ^2/NDF : 977370394933047945

Right Out: 16.009+/-0.000

χ^2/NDF : 302644.9/34

Out: 16.009+/-0.000

χ^2/NDF : 570630.4/59

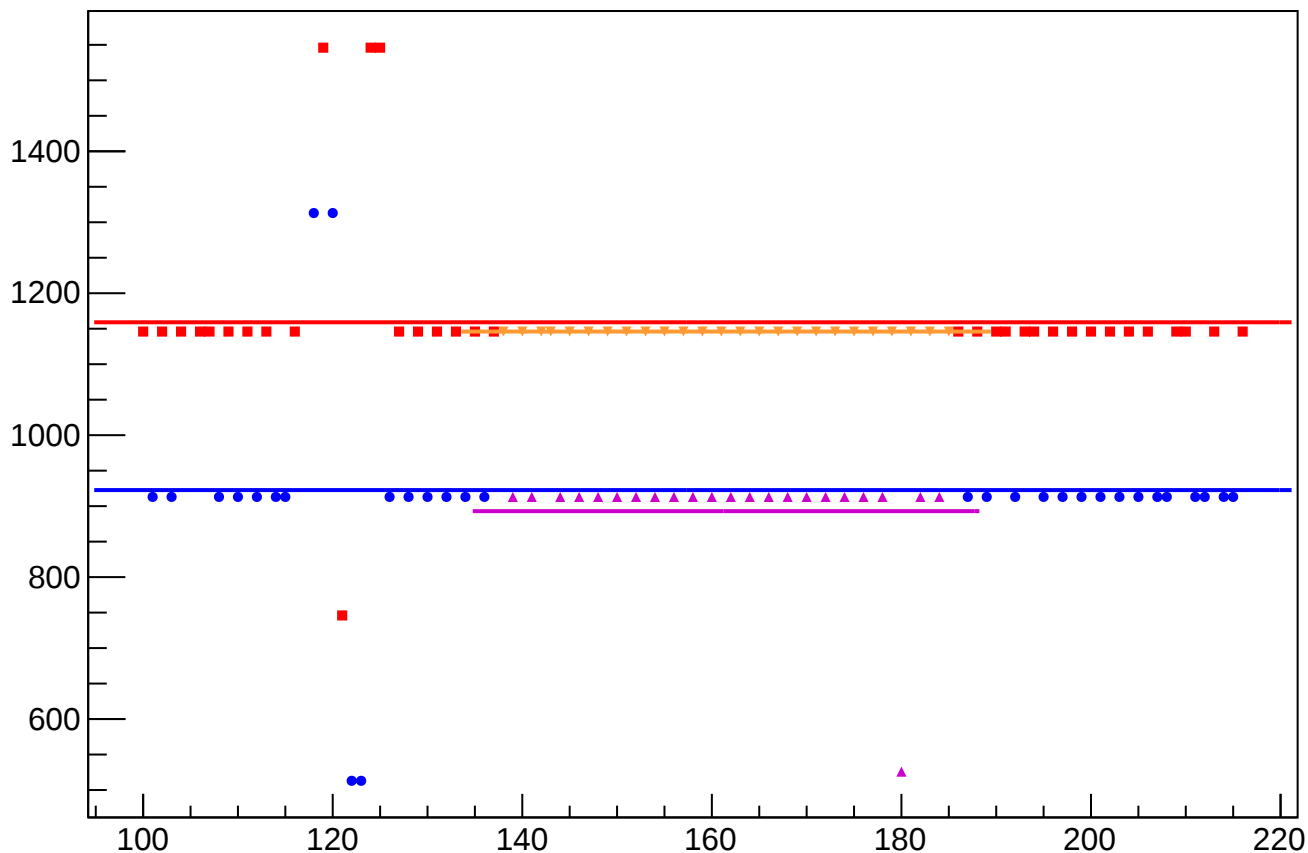
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.495+/-0.000

χ^2/NDF : 1802987057237

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 922.625+/-0.000 χ^2/NDF : 2111571560555938737099509780793262080.0/31

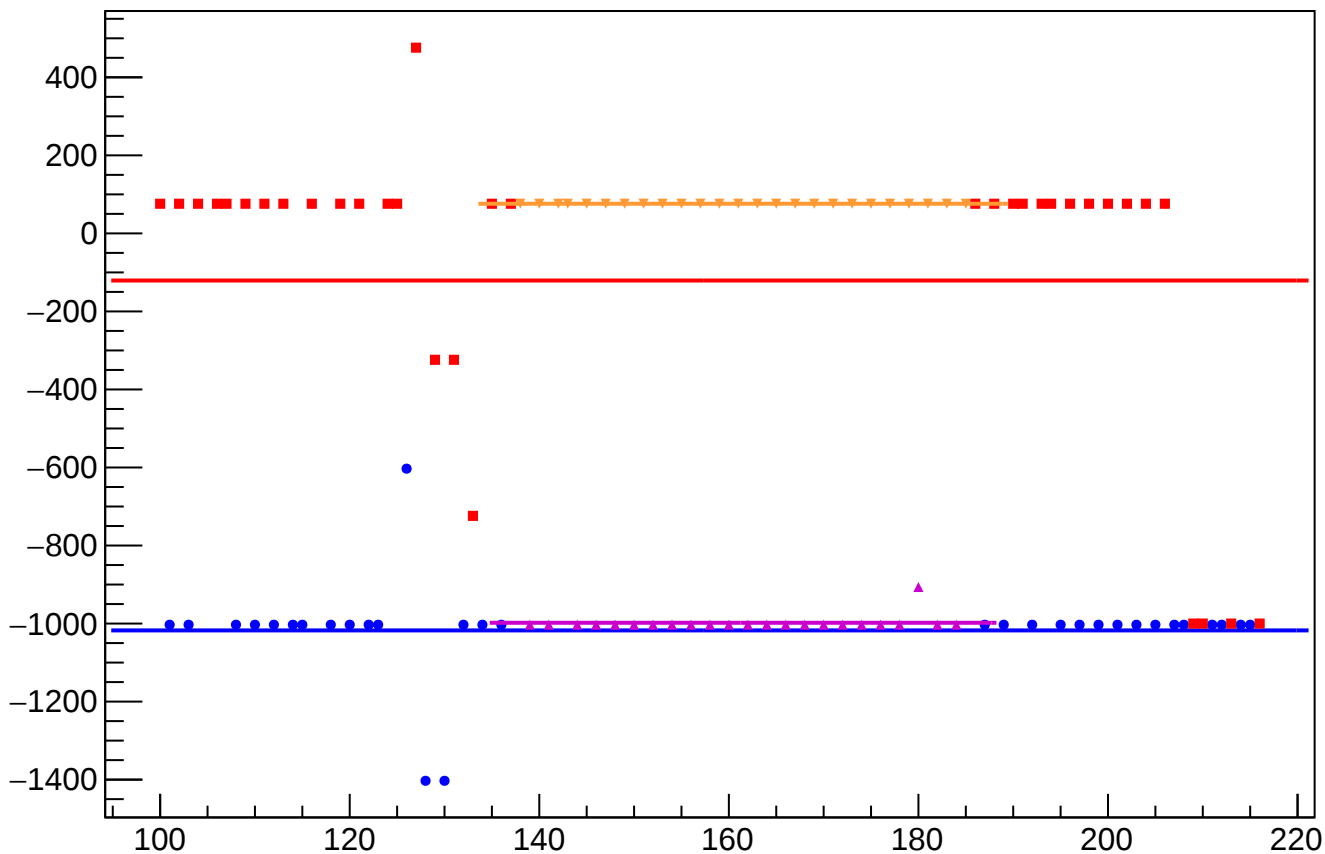
Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24

Right Out: 1159.060+/-0.000 χ^2/NDF : 21767506673091274302416144714010984448.0/34

Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22

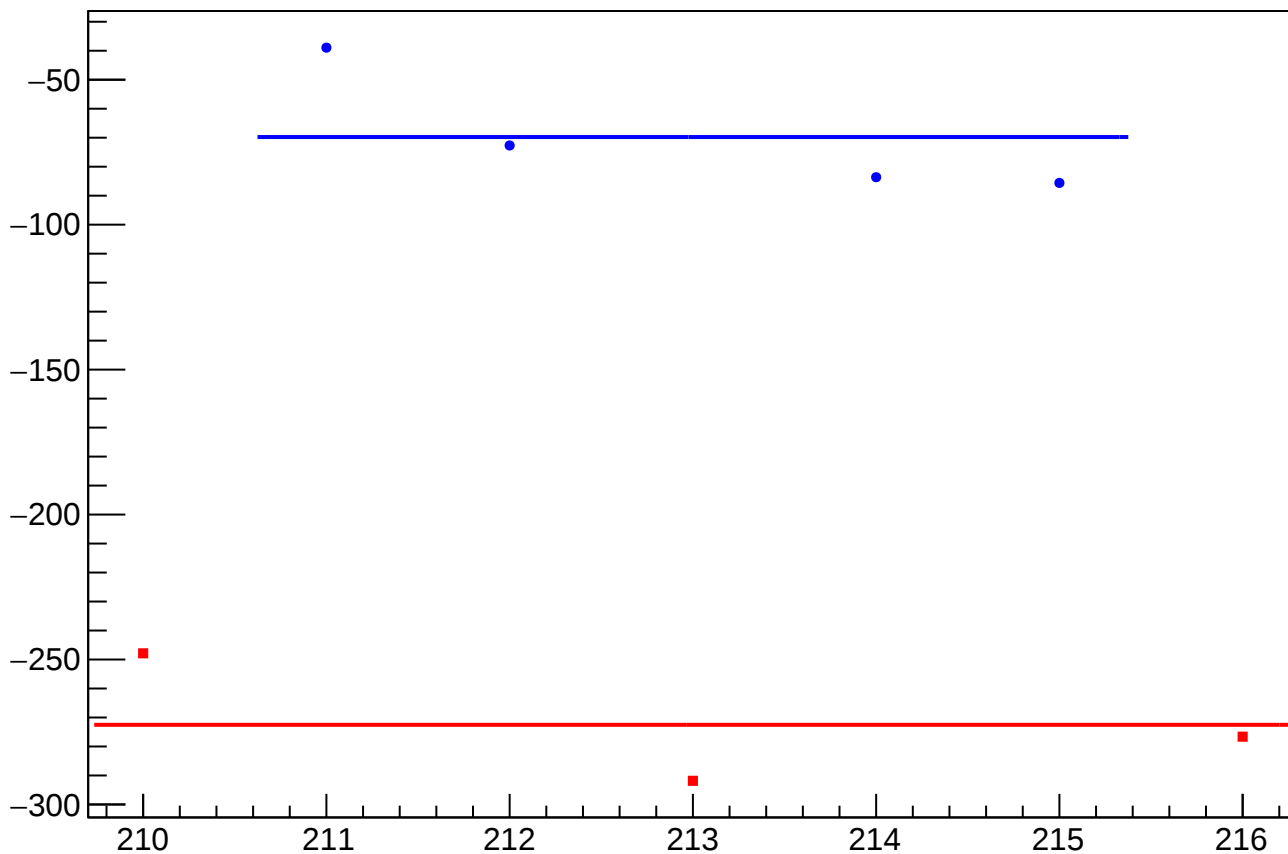
All: 1032.789+/-0.000 χ^2/NDF : 16663521524

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



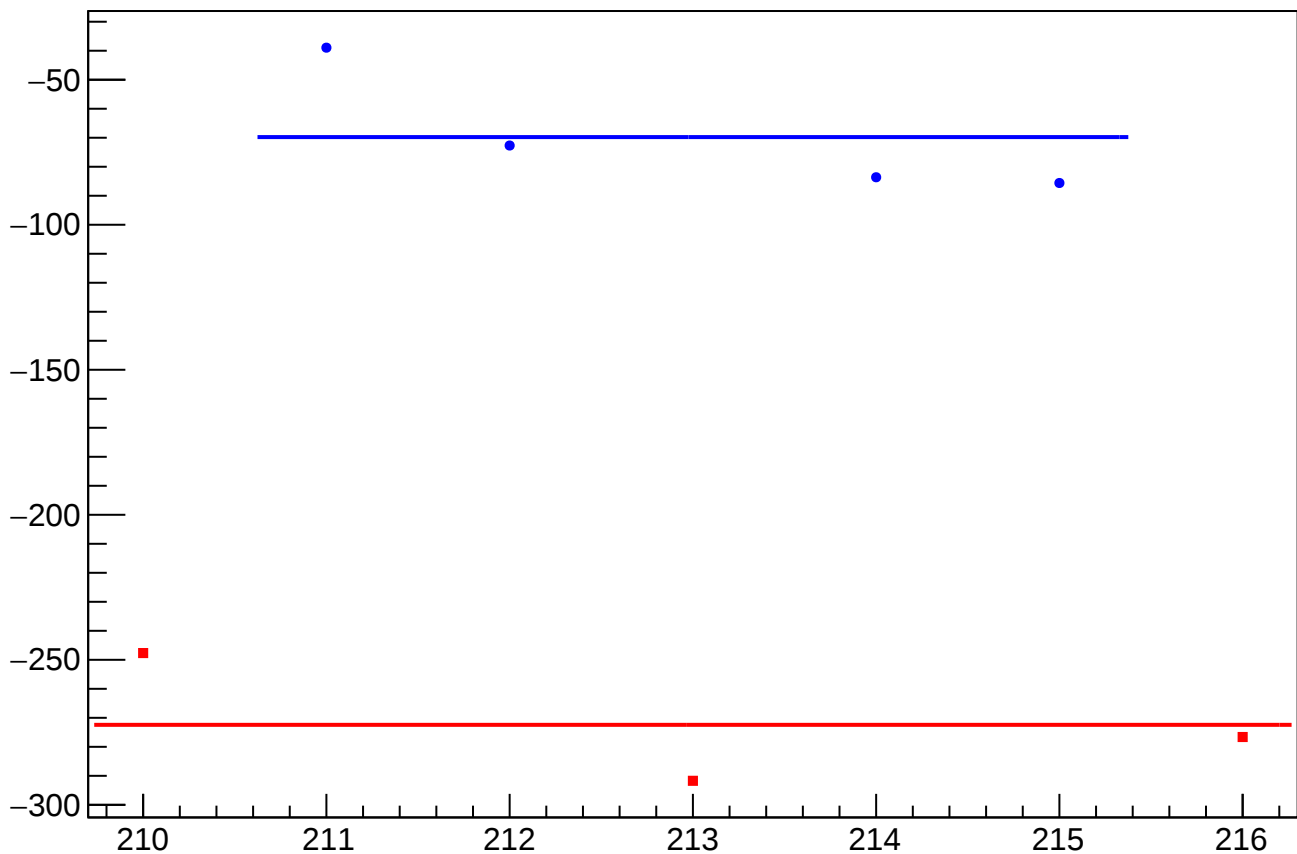
Right In: -1017.547 ± 0.000 $\chi^2/\text{NDF}: 22821183713305920842493302895435317248.0/31$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11479003589933272170007363584.0/24$
 Right Out: -120.789 ± 0.000 $\chi^2/\text{NDF}: 312726026209612629742732308451153674240.0/34$
 Left In: -997.979 ± 0.000 $\chi^2/\text{NDF}: 825858066518991041870194619245920256.0/22$
 All: -503.281 ± 0.000 $\chi^2/\text{NDF}: 21565660454$

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: -272.528+/-0.000 χ^2/NDF : 73981146673413328355794985821405184.0/2
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -155.144+/-0.000 χ^2/NDF : 53206548284321

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: -155.099+/-0.000 χ^2/NDF : 53155318849784
 In: -69.774+/-0.000 χ^2/NDF : 10586408868319556
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -155.099+/-0.000 χ^2/NDF : 53155318849