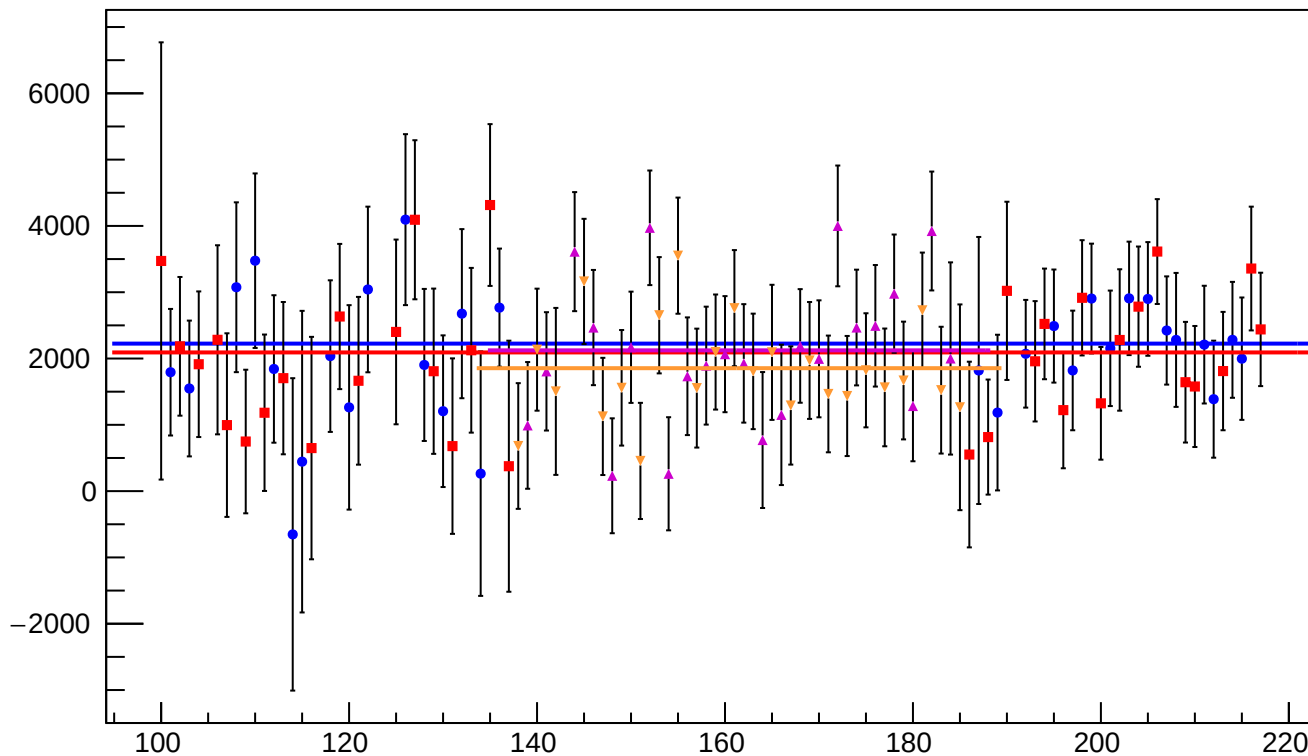


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2224.933+/-186.817

Left Out: 1854.267+/-187.405

Right Out: 2091.877+/-182.759

Left In: 2123.138+/-188.684

χ^2/NDF : 13.8/30

χ^2/NDF : 15.1/23

χ^2/NDF : 26.2/33

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2156.944+/-130.641

In: 2174.542+/-132.755

Out: 1976.054+/-130.842

All: 2073.858+/-93.188

χ^2/NDF : 48.1/46

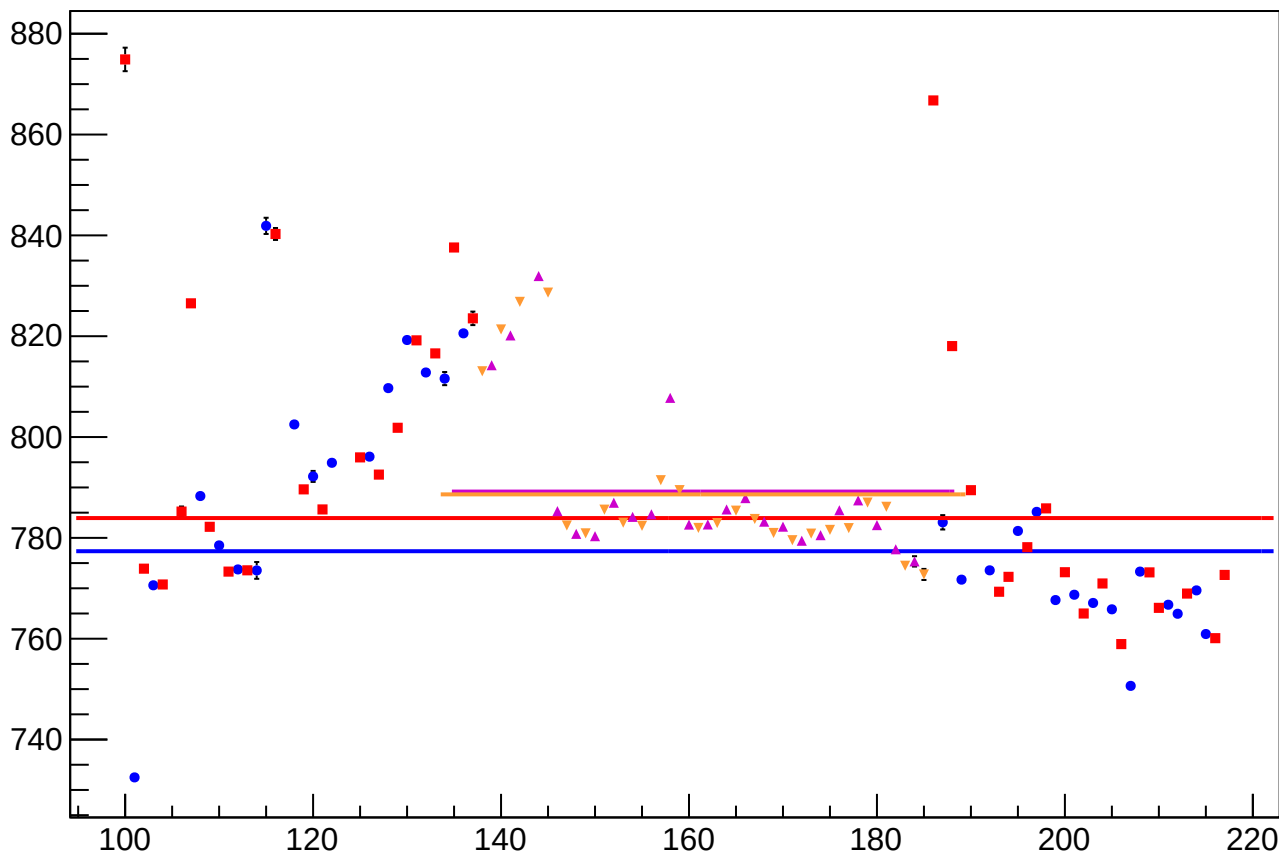
χ^2/NDF : 40.2/64

χ^2/NDF : 45.9/53

χ^2/NDF : 42.1/57

χ^2/NDF : 89.2/111

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 777.356+/-0.132 χ^2/NDF : 24540.5/30

Left Out: 788.629+/-0.133 χ^2/NDF :11478.1/23

Right Out: 783.930+/-0.129 χ^2/NDF : 32486.4/33

Left In: 789.185+/-0.133 χ^2/NDF :11343.2/22

Left: 788.905+/-0.094 χ^2/NDF : 22830.1/46

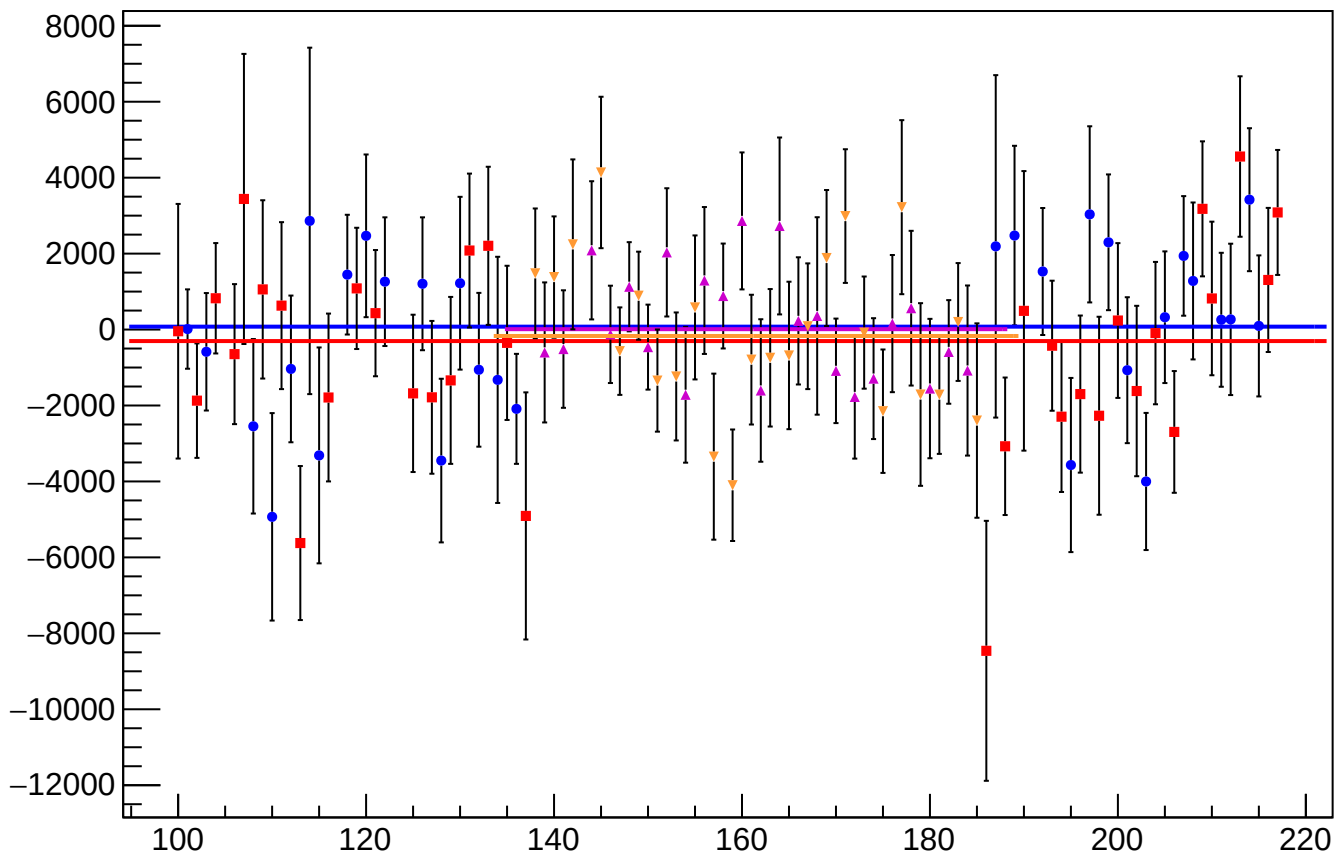
Right: 780.715+/-0.092 χ^2/NDF : 58292.5/64

In: 783.211+/-0.094 χ^2/NDF :39853.2/53

Out: 786.221+/-0.093 χ^2/NDF :44609.1/57

All: 784.738+/-0.066 χ^2/NDF : 84983.6/111

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 76.510 $\pm$ 341.330 χ^2 /NDF: 33.6/30

Left Out: -169.172 $\pm$ 340.391 χ^2 /NDF:30.0/23

Right Out: -303.267 $\pm$ 344.231 χ^2 /NDF: 44.7/33

Left In: 10.093 $\pm$ 337.810 χ^2 /NDF:14.2/22

Left: -78.858 $\pm$ 239.775 χ^2 /NDF: 44.4/46

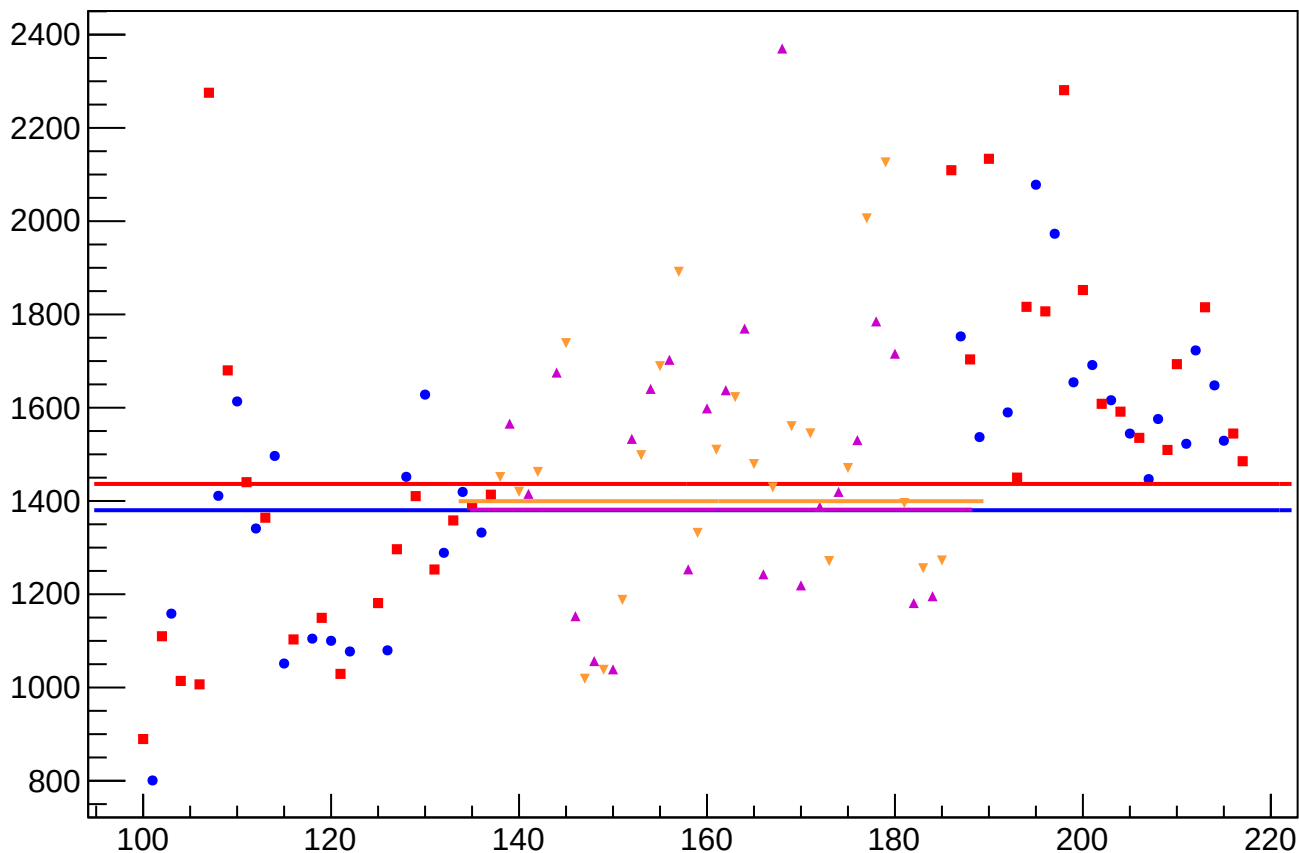
Right: -111.772 $\pm$ 242.376 χ^2 /NDF: 78.9/64

In: 42.957 $\pm$ 240.103 χ^2 /NDF:47.9/53

Out: -235.468 $\pm$ 242.039 χ^2 /NDF:74.8/57

All: -95.137 $\pm$ 170.459 χ^2 /NDF: 123.3/111

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1380.179 $\pm$ 0.241 χ^2 /NDF: 1618725.0/30

Left Out: 1399.587 $\pm$ 0.241 χ^2 /NDF: 1119125.1/23

Right Out: 1436.547 $\pm$ 0.243 χ^2 /NDF: 1600546.4/33

Left In: 1381.359 $\pm$ 0.239 χ^2 /NDF: 1276488.2/22

Left: 1390.403 $\pm$ 0.170 χ^2 /NDF: 2398502.8/46

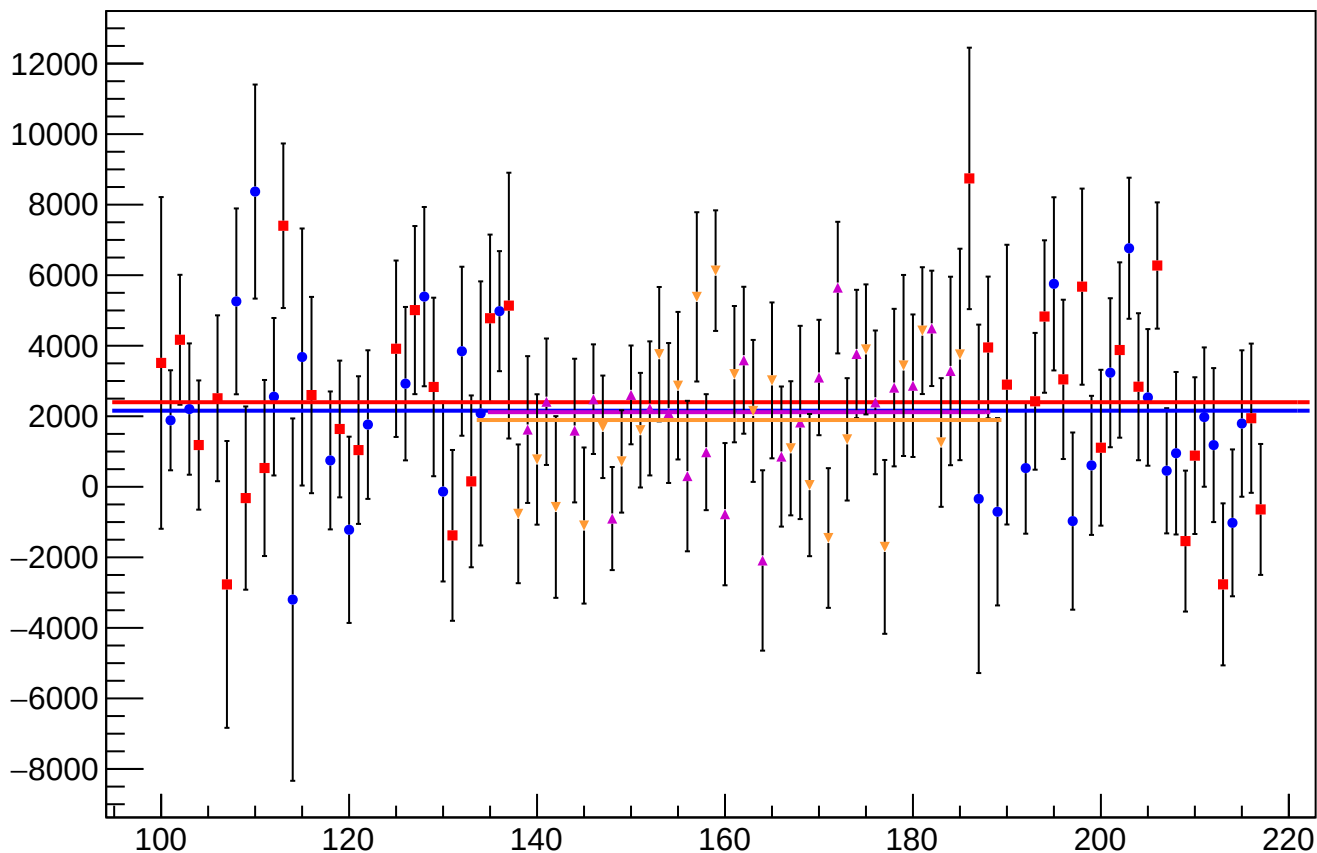
Right: 1408.124 $\pm$ 0.171 χ^2 /NDF: 3246312.9/64

In: 1380.775 $\pm$ 0.170 χ^2 /NDF: 2895225.3/53

Out: 1417.860 $\pm$ 0.171 χ^2 /NDF: 2731329.4/57

All: 1399.168 $\pm$ 0.121 χ^2 /NDF: 5650219.1/111

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2157.974 $\pm$ 397.734 χ^2 /NDF: 30.8/30

Left Out: 1893.469 $\pm$ 394.877 χ^2 /NDF:25.9/23

Right Out: 2398.542 $\pm$ 397.498 χ^2 /NDF: 40.1/33

Left In: 2116.114 $\pm$ 392.997 χ^2 /NDF:18.8/22

Left: 2005.323 $\pm$ 278.553 χ^2 /NDF: 44.9/46

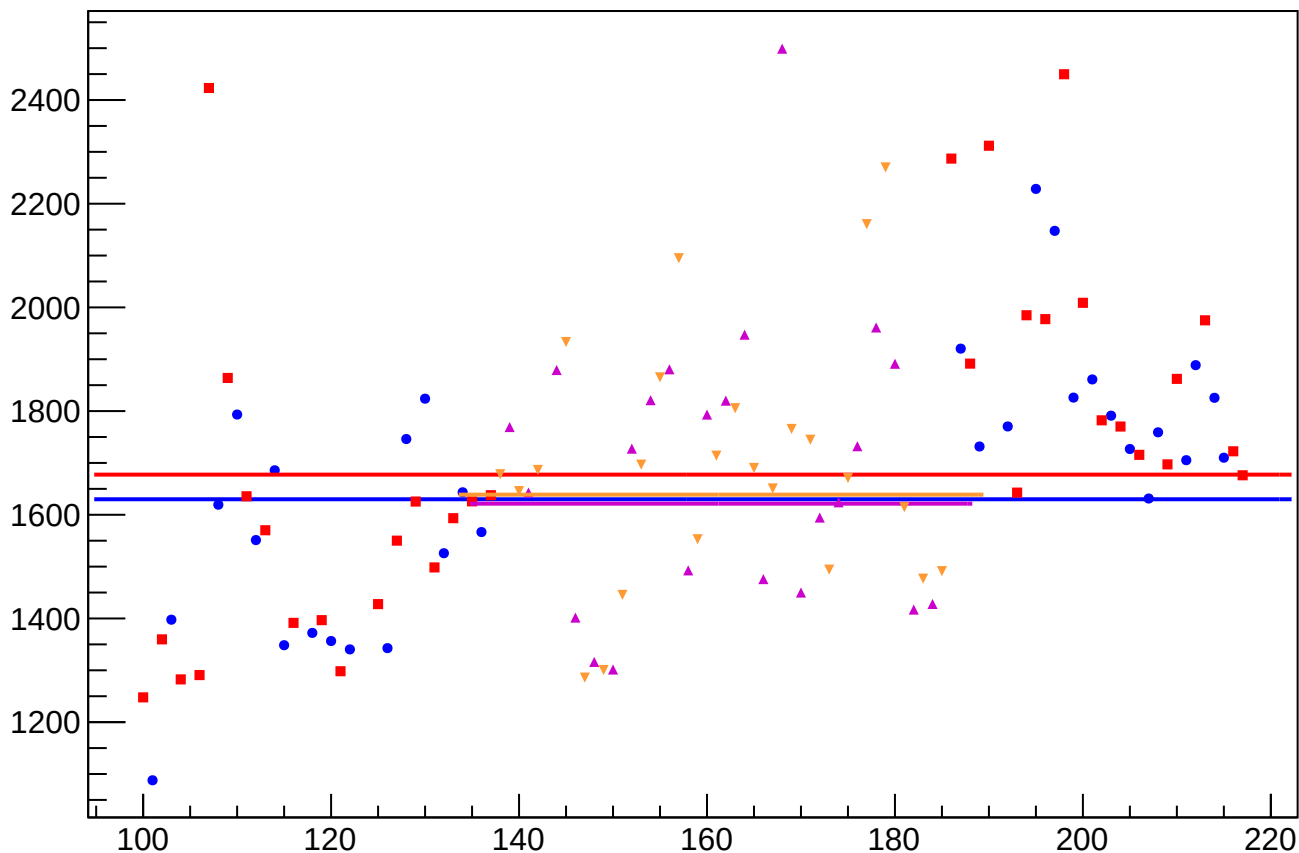
Right: 2278.329 $\pm$ 281.157 χ^2 /NDF: 71.1/64

In: 2136.794 $\pm$ 279.550 χ^2 /NDF:49.6/53

Out: 2144.335 $\pm$ 280.142 χ^2 /NDF:66.9/57

All: 2140.556 $\pm$ 197.881 χ^2 /NDF: 116.4/111

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1629.919 $\pm$ 0.281 χ^2 /NDF: 839657.7/30

Left Out: 1638.806 $\pm$ 0.279 χ^2 /NDF: 671906.6/23

Right Out: 1677.442 $\pm$ 0.281 χ^2 /NDF: 935819.8/33

Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1630.070 $\pm$ 0.197 χ^2 /NDF: 1449165.3/46

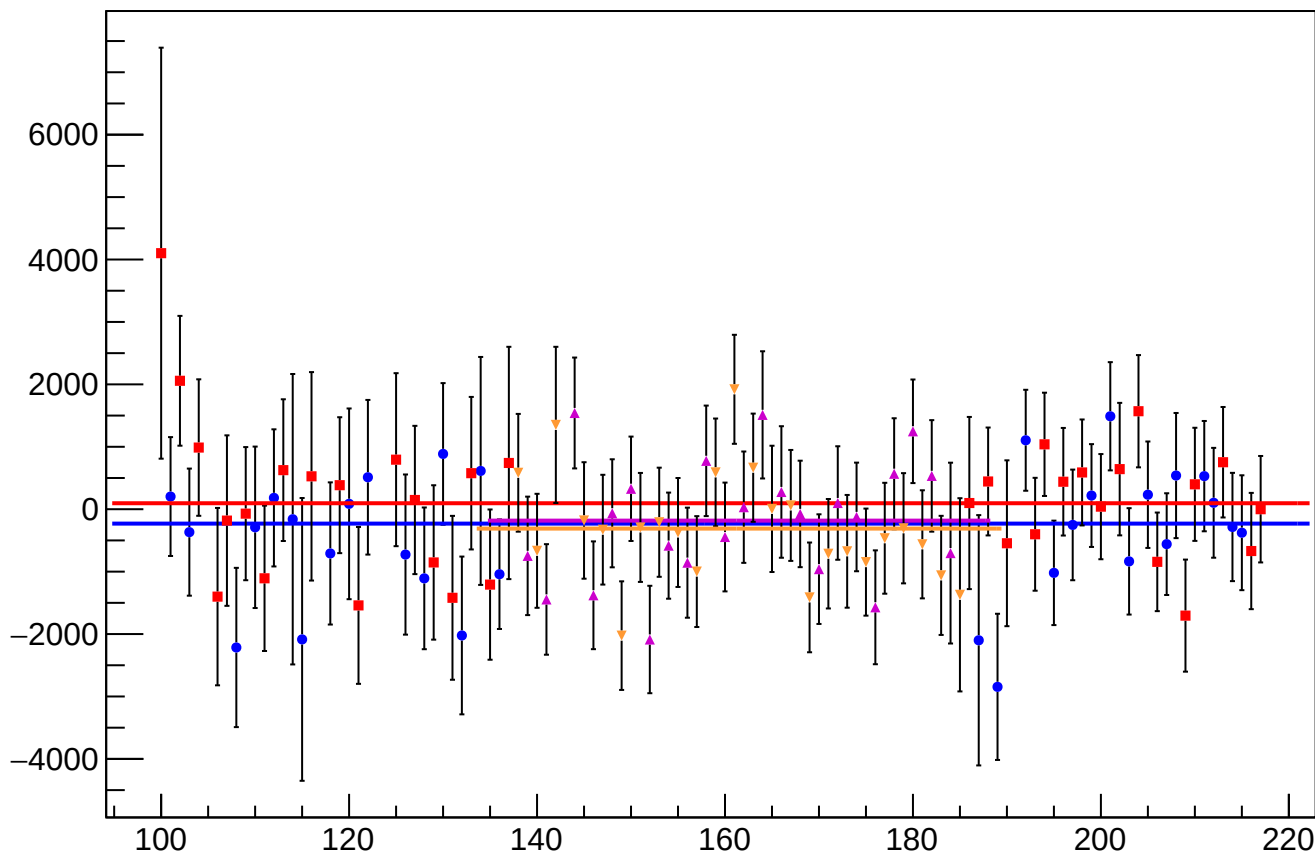
Right: 1653.694 $\pm$ 0.199 χ^2 /NDF: 1789762.6/64

In: 1625.617 $\pm$ 0.198 χ^2 /NDF: 1615430.2/53

Out: 1657.996 $\pm$ 0.198 χ^2 /NDF: 1617236.1/57

All: 1641.772 $\pm$ 0.140 χ^2 /NDF: 3246053.7/111

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -230.629 ± 185.445 $\chi^2/\text{NDF}: 25.0/30$

Left Out: -310.563 ± 186.538 $\chi^2/\text{NDF}: 20.0/23$

Right Out: 95.681 ± 181.139 $\chi^2/\text{NDF}: 25.9/33$

Left In: -182.895 ± 187.817 $\chi^2/\text{NDF}: 26.1/22$

Left: -247.165 ± 132.352 $\chi^2/\text{NDF}: 46.4/46$

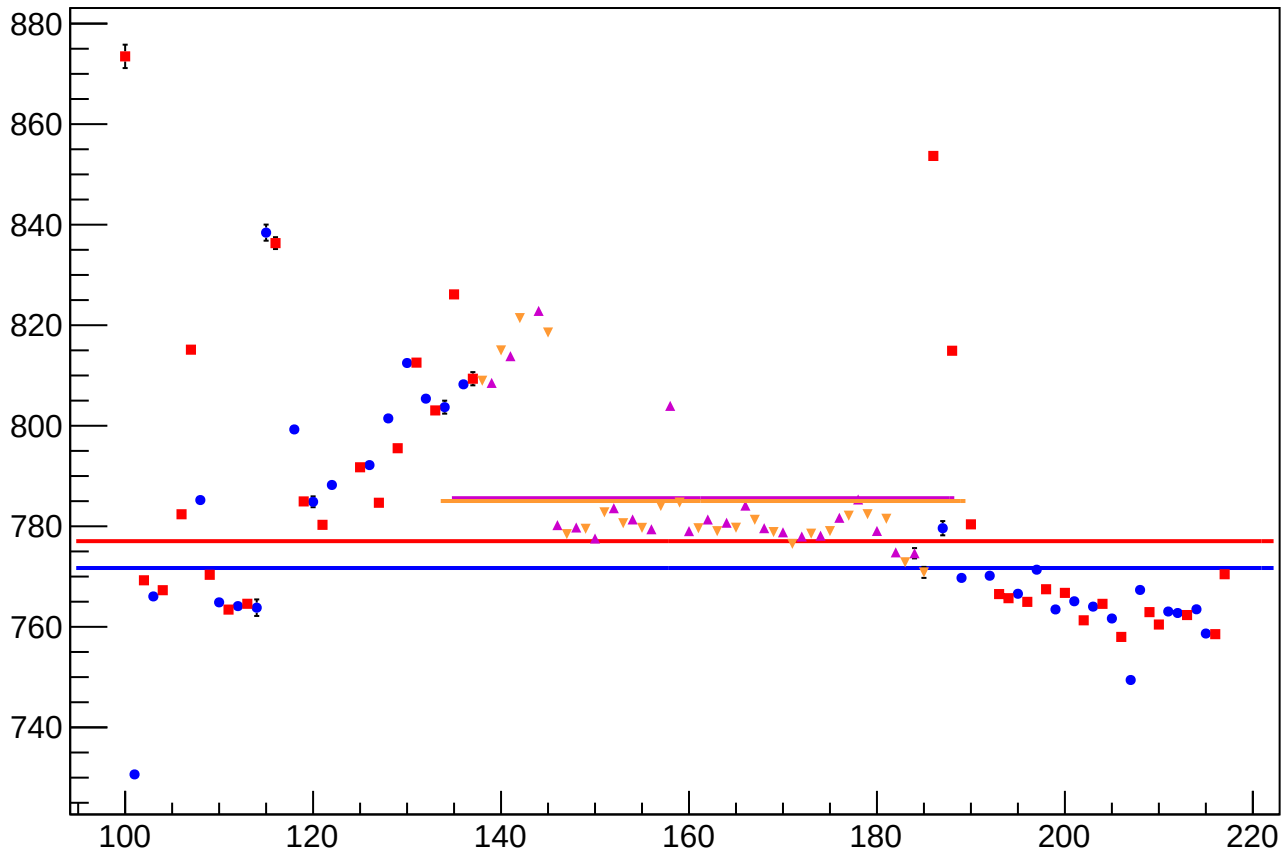
Right: -63.642 ± 129.580 $\chi^2/\text{NDF}: 52.4/64$

In: -207.065 ± 131.960 $\chi^2/\text{NDF}: 51.2/53$

Out: -101.478 ± 129.952 $\chi^2/\text{NDF}: 48.3/57$

All: -153.462 ± 92.592 $\chi^2/\text{NDF}: 99.8/111$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 771.703 $\pm$ 0.131 χ^2 /NDF: 20950.7/30

Left Out: 785.031 $\pm$ 0.132 χ^2 /NDF:9367.9/23

Right Out: 777.045 $\pm$ 0.128 χ^2 /NDF: 30095.1/33

Left In: 785.592 $\pm$ 0.133 χ^2 /NDF:9373.7/22

Left: 785.309 $\pm$ 0.094 χ^2 /NDF: 18750.6/46

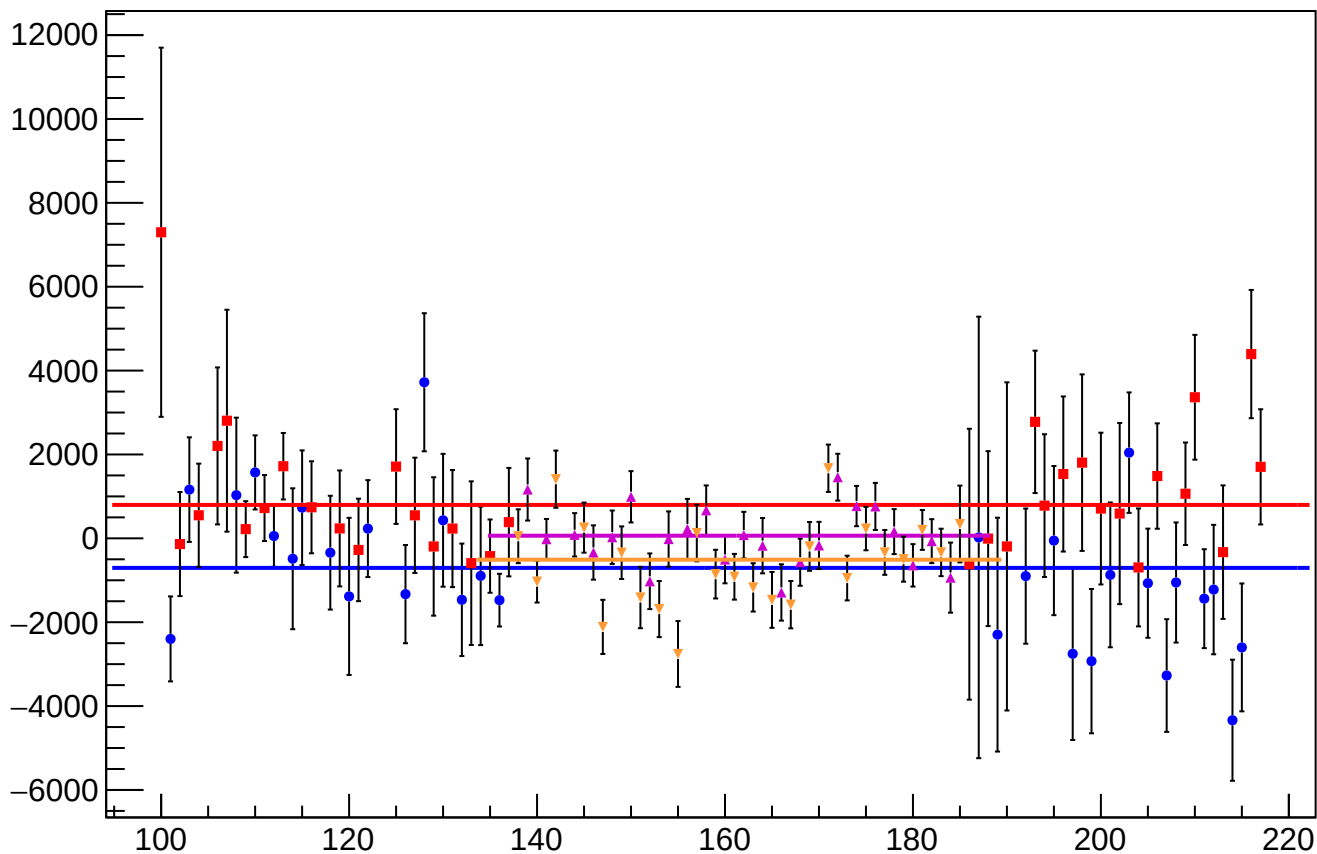
Right: 774.437 $\pm$ 0.092 χ^2 /NDF: 51895.2/64

In: 778.559 $\pm$ 0.093 χ^2 /NDF:35862.7/53

Out: 780.921 $\pm$ 0.092 χ^2 /NDF:41349.5/57

All: 779.758 $\pm$ 0.065 χ^2 /NDF: 77537.3/111

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -704.412 $\pm$ 233.056 χ^2/NDF : 44.5/30

Left Out: -509.311 $\pm$ 121.190 χ^2/NDF :60.5/23

Right Out: 796.987 $\pm$ 228.690 χ^2/NDF : 23.6/33

Left In: 62.768 $\pm$ 122.045 χ^2/NDF :28.8/22

Left: -225.283 $\pm$ 85.995 χ^2/NDF : 100.4/46

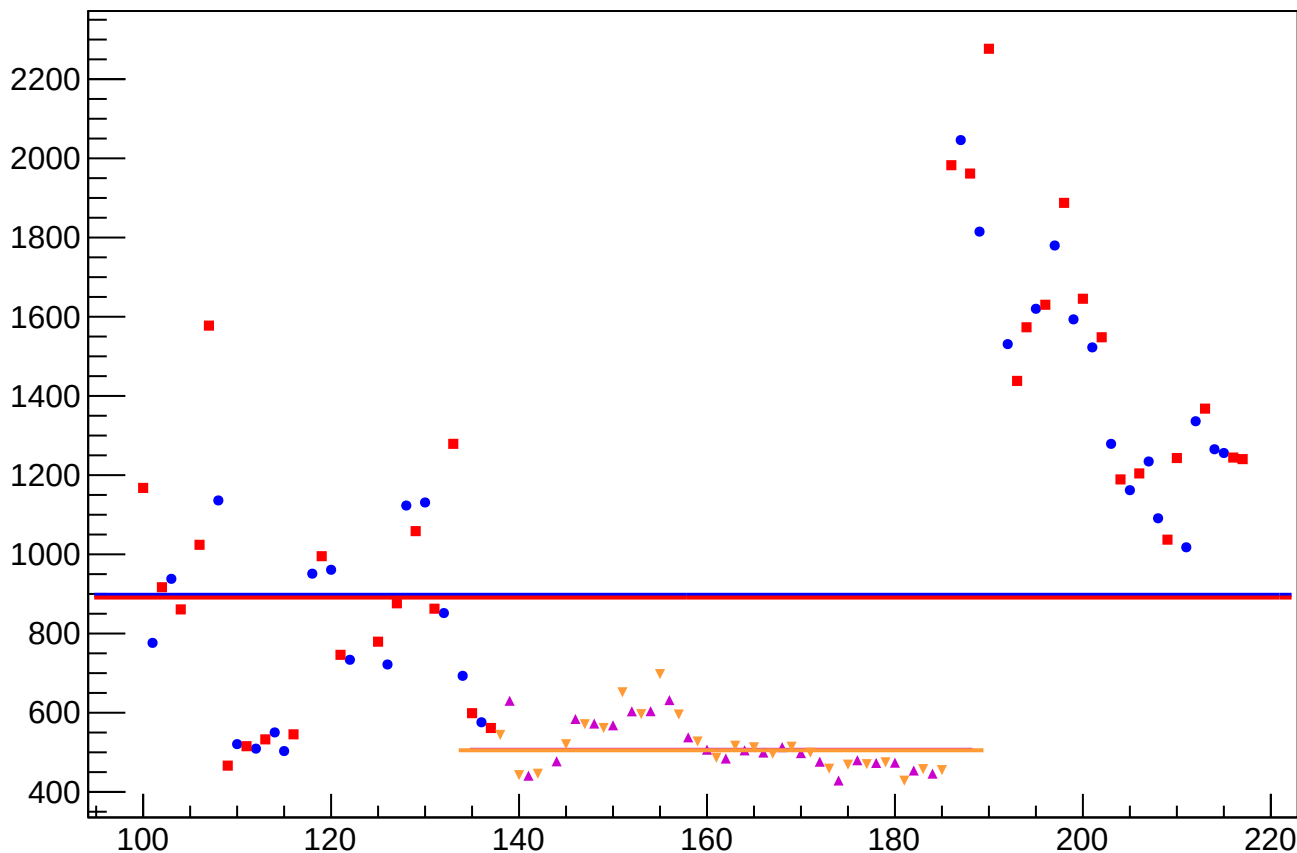
Right: 60.485 $\pm$ 163.230 χ^2/NDF : 89.2/64

In: -102.341 $\pm$ 108.118 χ^2/NDF :81.8/53

Out: -222.898 $\pm$ 107.083 χ^2/NDF :109.6/57

All: -163.199 $\pm$ 76.082 χ^2/NDF : 192.0/111

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 897.848+/-0.165 χ^2/NDF : 4686184.9/30

Left Out: 505.220+/-0.086 χ^2/NDF : 485593.0/23

Right Out: 890.855+/-0.162 χ^2/NDF : 6142585.7/33

Left In: 506.380+/-0.086 χ^2/NDF : 436294.4/22

Left: 505.796+/-0.061 χ^2/NDF : 921978.4/46

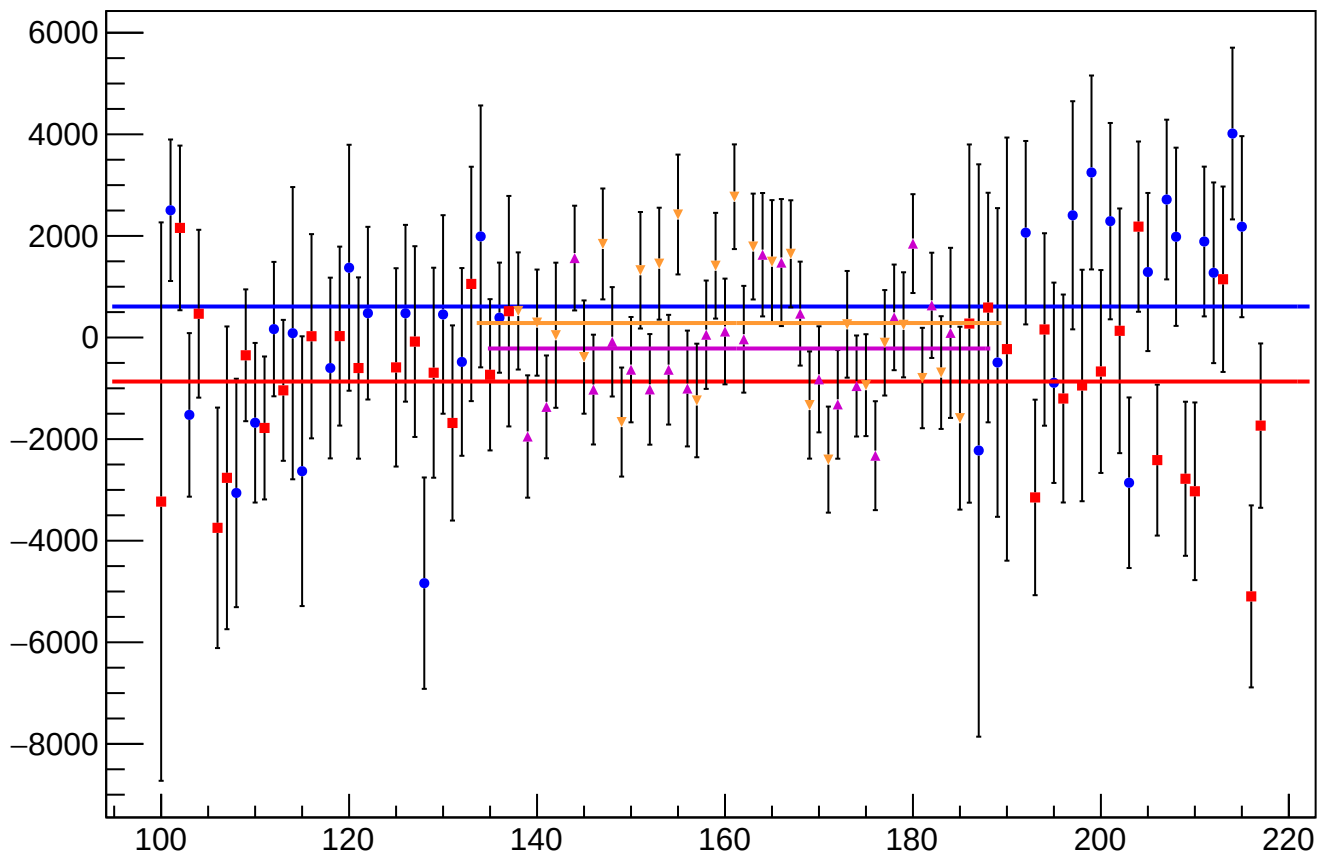
Right: 894.285+/-0.115 χ^2/NDF : 10829688.0/64

In: 590.630+/-0.076 χ^2/NDF : 9550924.2/53

Out: 589.773+/-0.076 χ^2/NDF : 11068333.6/57

All: 590.197+/-0.054 χ^2/NDF : 20619321.3/110

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 610.288 ± 321.568 χ^2/NDF : 35.6/30

Left Out: 285.144 ± 224.378 χ^2/NDF : 38.3/23

Right Out: -866.479 ± 320.103 χ^2/NDF : 25.8/33

Left In: -216.121 ± 225.600 χ^2/NDF : 24.4/22

Left: 35.874 ± 159.089 χ^2/NDF : 65.2/46

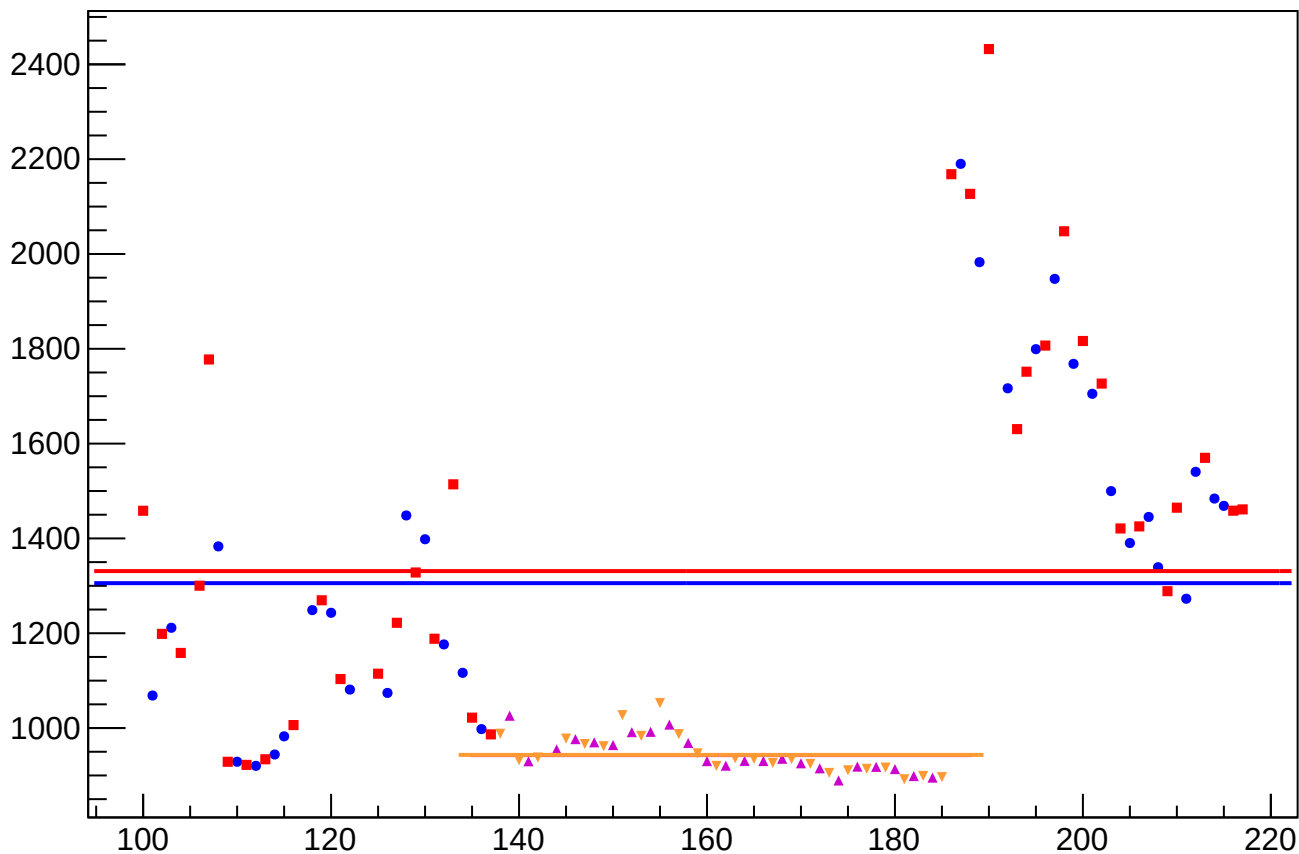
Right: -131.467 ± 226.863 χ^2/NDF : 72.0/64

In: 56.466 ± 184.683 χ^2/NDF : 64.5/53

Out: -94.271 ± 183.735 χ^2/NDF : 72.7/57

All: -19.290 ± 130.254 χ^2/NDF : 137.5/111

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1305.661+/-0.227 χ^2/NDF : 1550466.3/30

Left Out: 943.351+/-0.159 χ^2/NDF : 60365.2/23

Right Out: 1331.119+/-0.226 χ^2/NDF : 2090771.2/33

Left In: 942.927+/-0.160 χ^2/NDF : 48402.9/22

Left: 943.140+/-0.112 χ^2/NDF : 108771.7/46

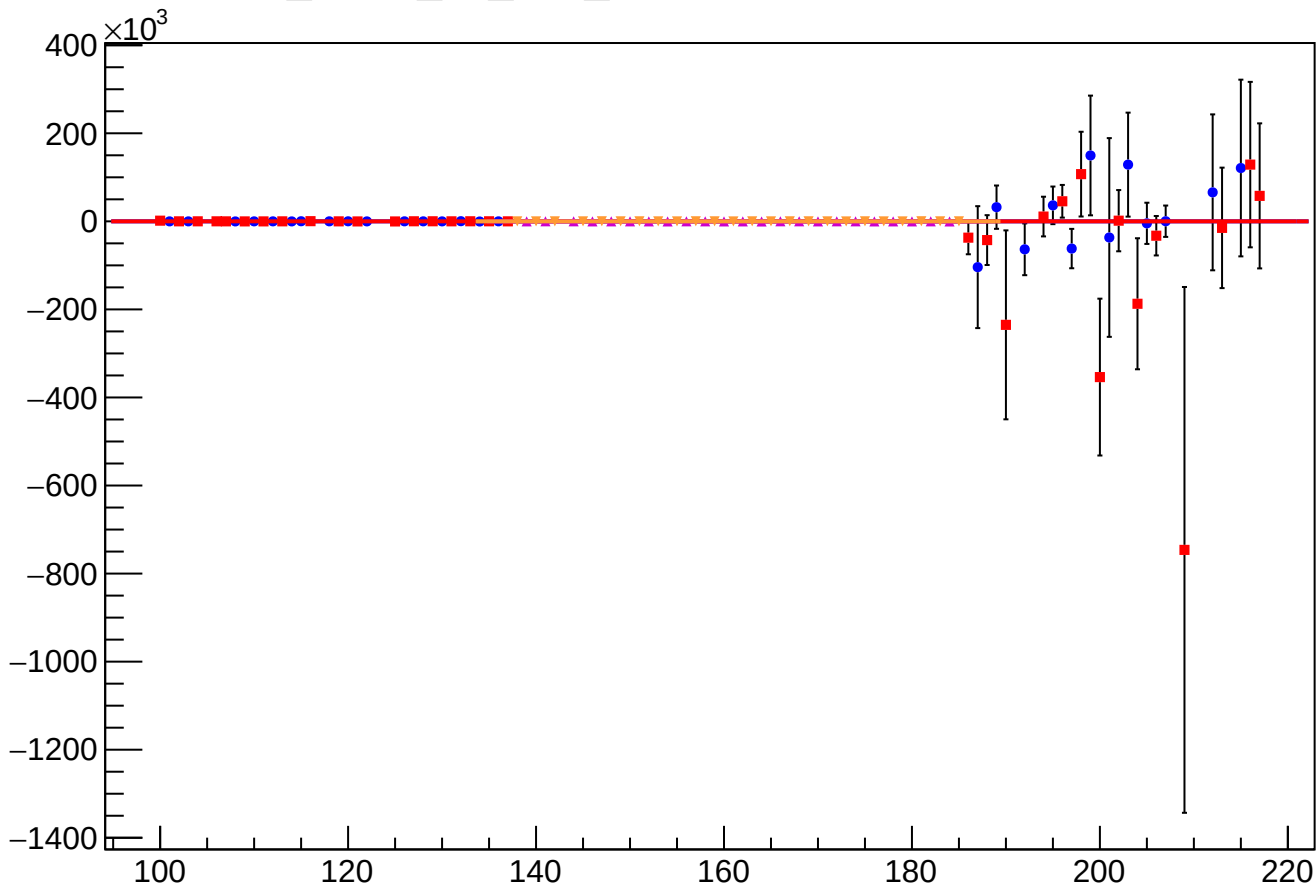
Right: 1318.448+/-0.160 χ^2/NDF : 3647533.9/64

In: 1062.573+/-0.131 χ^2/NDF : 3304315.5/53

Out: 1071.105+/-0.130 χ^2/NDF : 4119118.4/57

All: 1066.861+/-0.092 χ^2/NDF : 7425579.6/111

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.553 ± 30.032 $\chi^2/\text{NDF}: 23.7/27$

Left Out: 3.710 ± 21.467 $\chi^2/\text{NDF}: 22.4/23$

Right Out: 31.729 ± 30.492 $\chi^2/\text{NDF}: 30.6/31$

Left In: -22.931 ± 21.584 $\chi^2/\text{NDF}: 22.5/22$

Left: -9.538 ± 15.221 $\chi^2/\text{NDF}: 45.7/46$

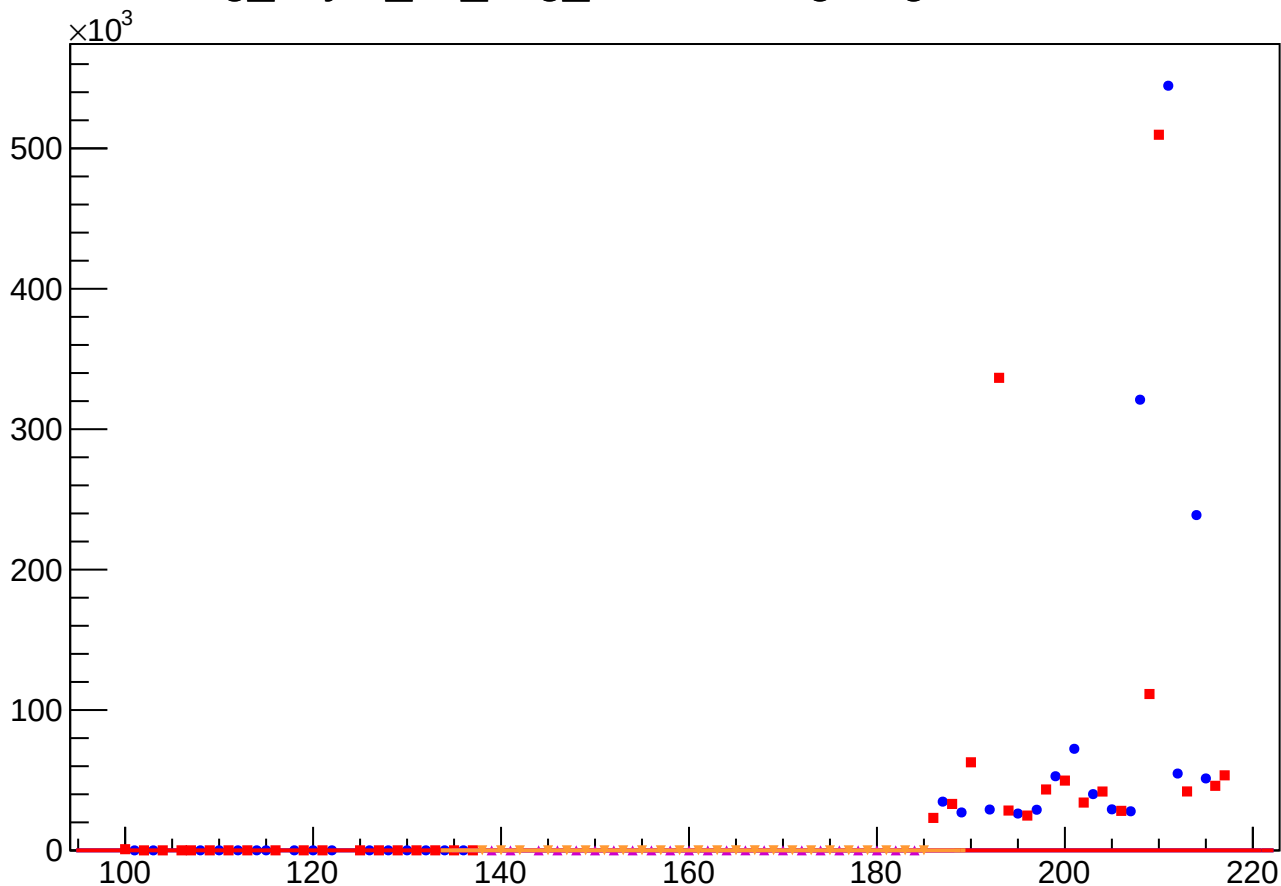
Right: 7.729 ± 21.397 $\chi^2/\text{NDF}: 55.5/59$

In: -20.418 ± 17.527 $\chi^2/\text{NDF}: 46.2/50$

Out: 12.996 ± 17.553 $\chi^2/\text{NDF}: 53.6/55$

All: -3.736 ± 12.403 $\chi^2/\text{NDF}: 101.6/106$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.142 $\pm$ 0.021 χ^2 /NDF: 6711465.2/30

Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF: 466281.5/23

Right Out: 79.461 $\pm$ 0.022 χ^2 /NDF: 6545668.4/33

Left In: 89.596 $\pm$ 0.015 χ^2 /NDF: 508511.1/22

Left: 89.644 $\pm$ 0.011 χ^2 /NDF: 974812.8/46

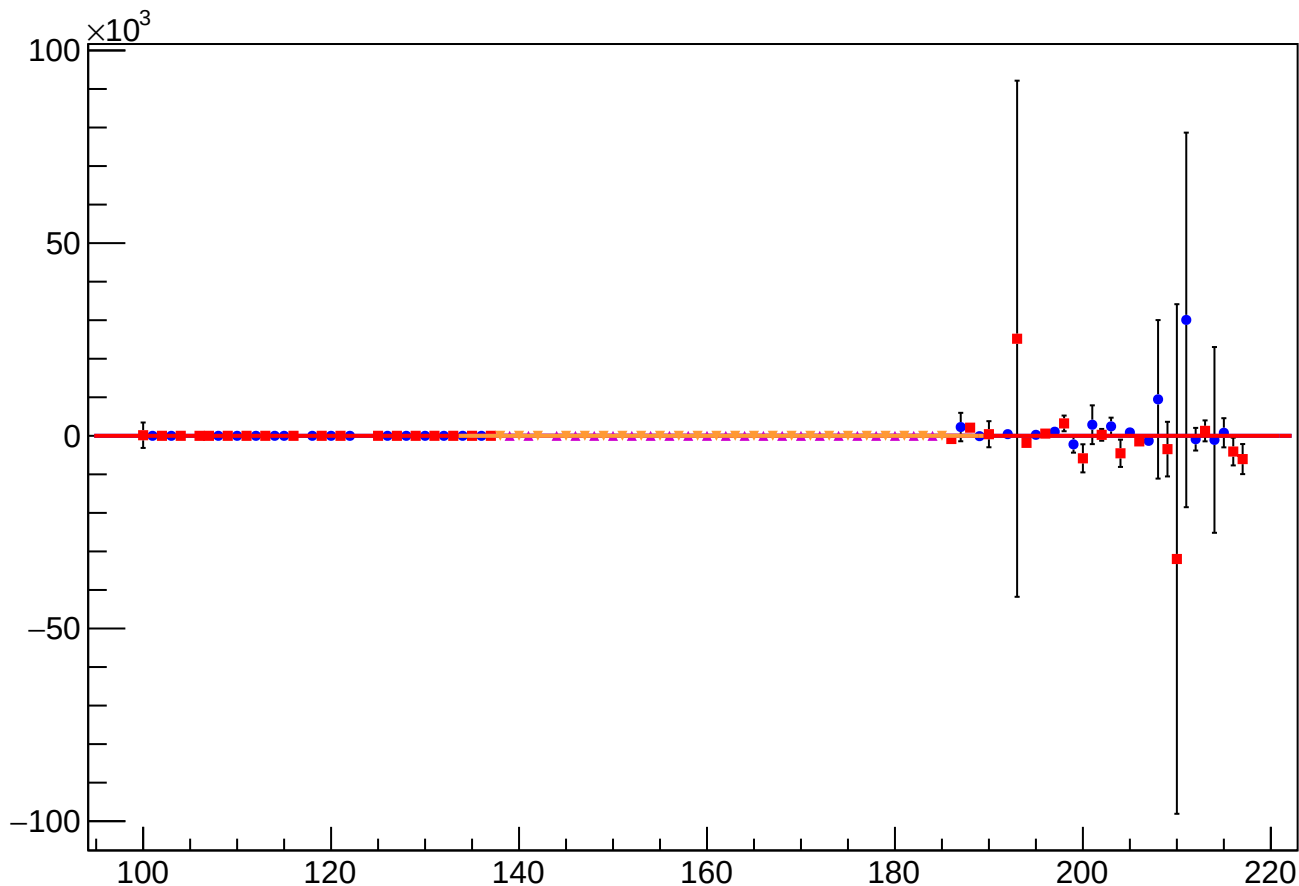
Right: 77.776 $\pm$ 0.015 χ^2 /NDF: 13269165.4/64

In: 85.013 $\pm$ 0.012 χ^2 /NDF: 7484641.6/53

Out: 86.302 $\pm$ 0.012 χ^2 /NDF: 7162496.2/57

All: 85.656 $\pm$ 0.009 χ^2 /NDF: 14652533.8/111

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.6/30

Left Out: 0.126 ± 0.377 χ^2/NDF : 21.3/23

Right Out: 0.038 ± 0.525 χ^2/NDF : 33.4/33

Left In: -0.519 ± 0.387 χ^2/NDF : 26.3/22

Left: -0.188 ± 0.270 χ^2/NDF : 49.1/46

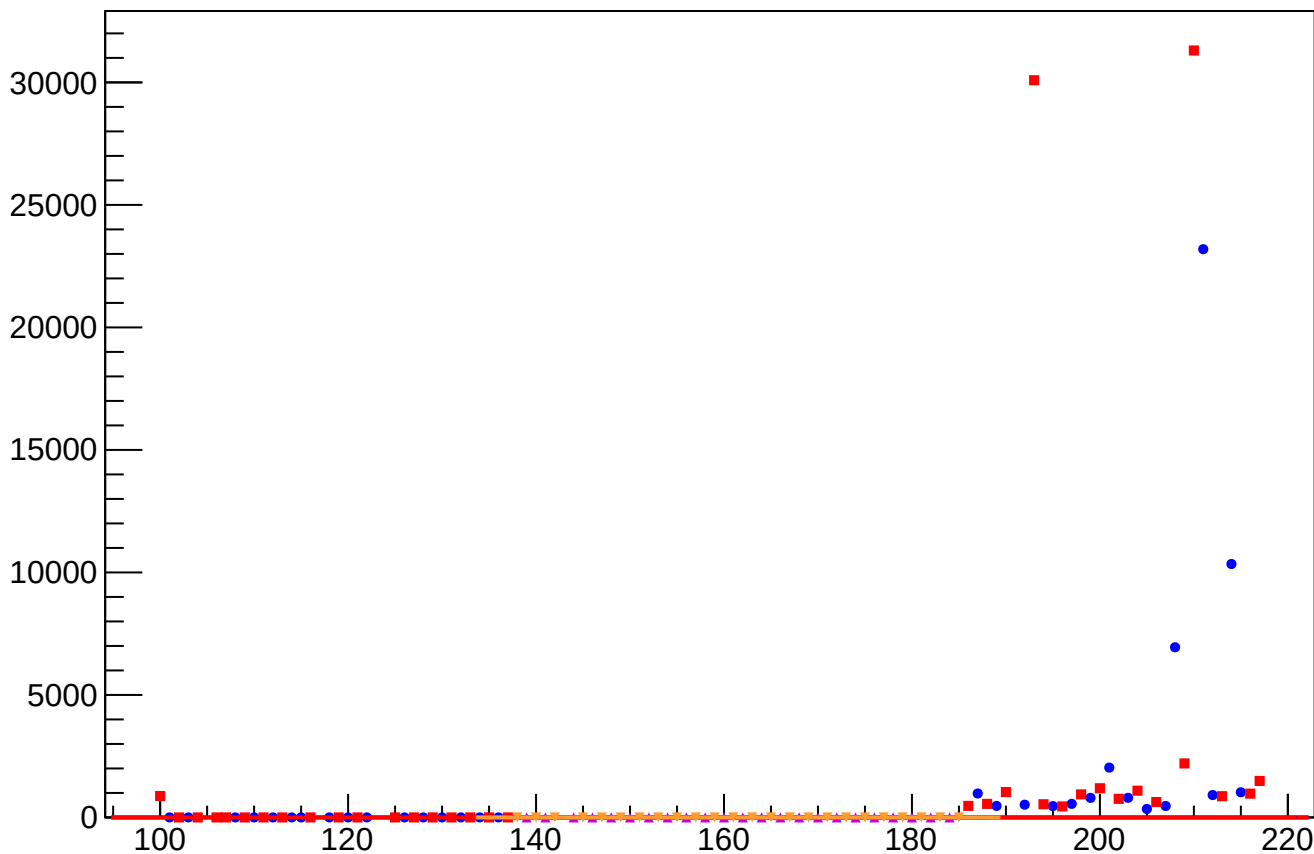
Right: -0.133 ± 0.363 χ^2/NDF : 65.2/64

In: -0.433 ± 0.306 χ^2/NDF : 58.1/53

Out: 0.096 ± 0.306 χ^2/NDF : 54.7/57

All: -0.168 ± 0.217 χ^2/NDF : 114.3/111

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6718375.7/30

Left Out: 1.408+/-0.000 χ^2/NDF : 987553.0/23

Right Out: 1.260+/-0.000 χ^2/NDF : 7253453.9/33

Left In: 1.453+/-0.000 χ^2/NDF : 995852.2/22

Left: 1.430+/-0.000 χ^2/NDF : 1997169.8/46

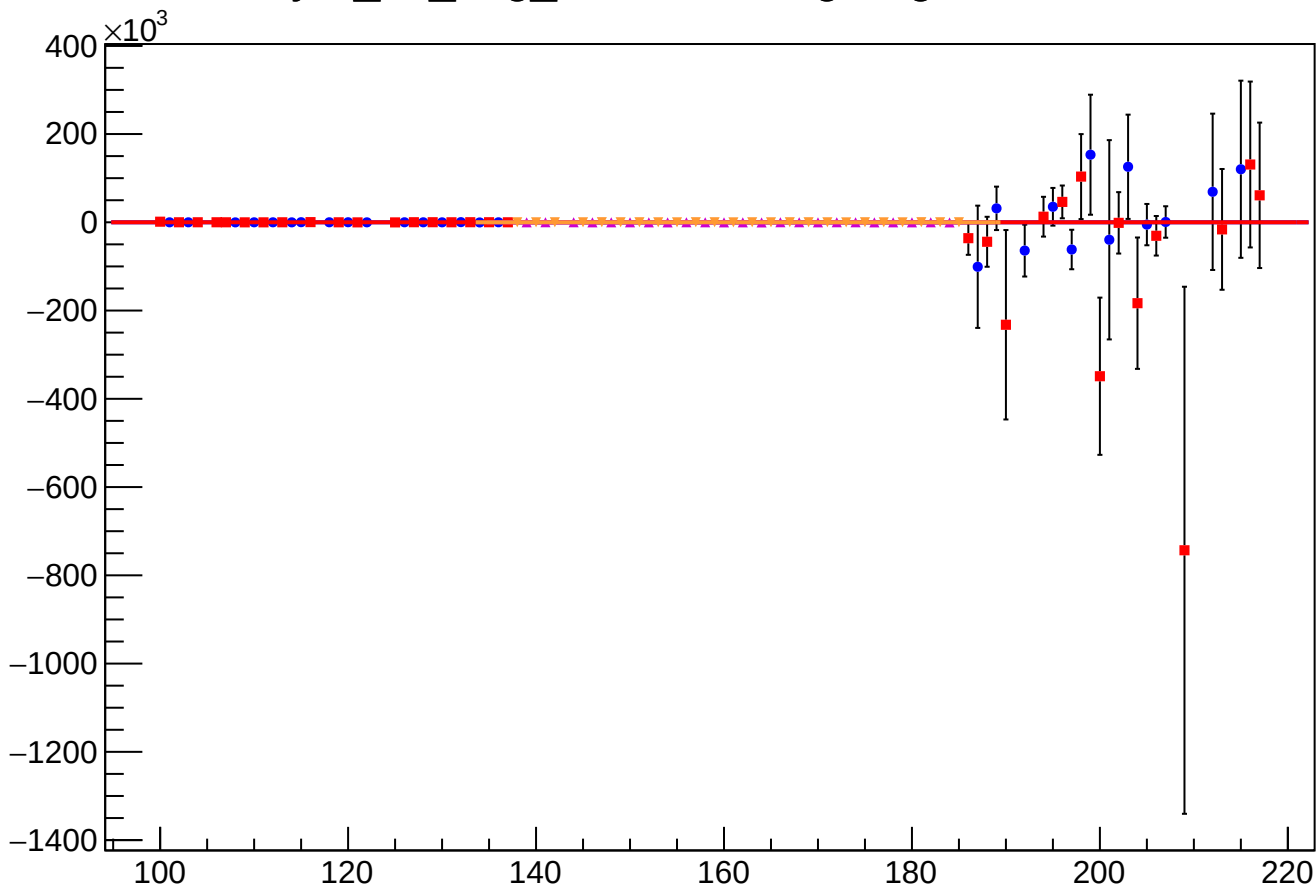
Right: 1.204+/-0.000 χ^2/NDF : 14015237.7/64

In: 1.341+/-0.000 χ^2/NDF : 8162372.1/53

Out: 1.358+/-0.000 χ^2/NDF : 8346006.6/57

All: 1.350+/-0.000 χ^2/NDF : 16511346.7/111

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.489 ± 30.040 χ^2/NDF : 23.9/27

Left Out: 3.497 ± 21.474 χ^2/NDF : 22.1/23

Right Out: 32.010 ± 30.500 χ^2/NDF : 30.3/31

Left In: -22.446 ± 21.591 χ^2/NDF : 22.3/22

Left: -9.404 ± 15.226 χ^2/NDF : 45.2/46

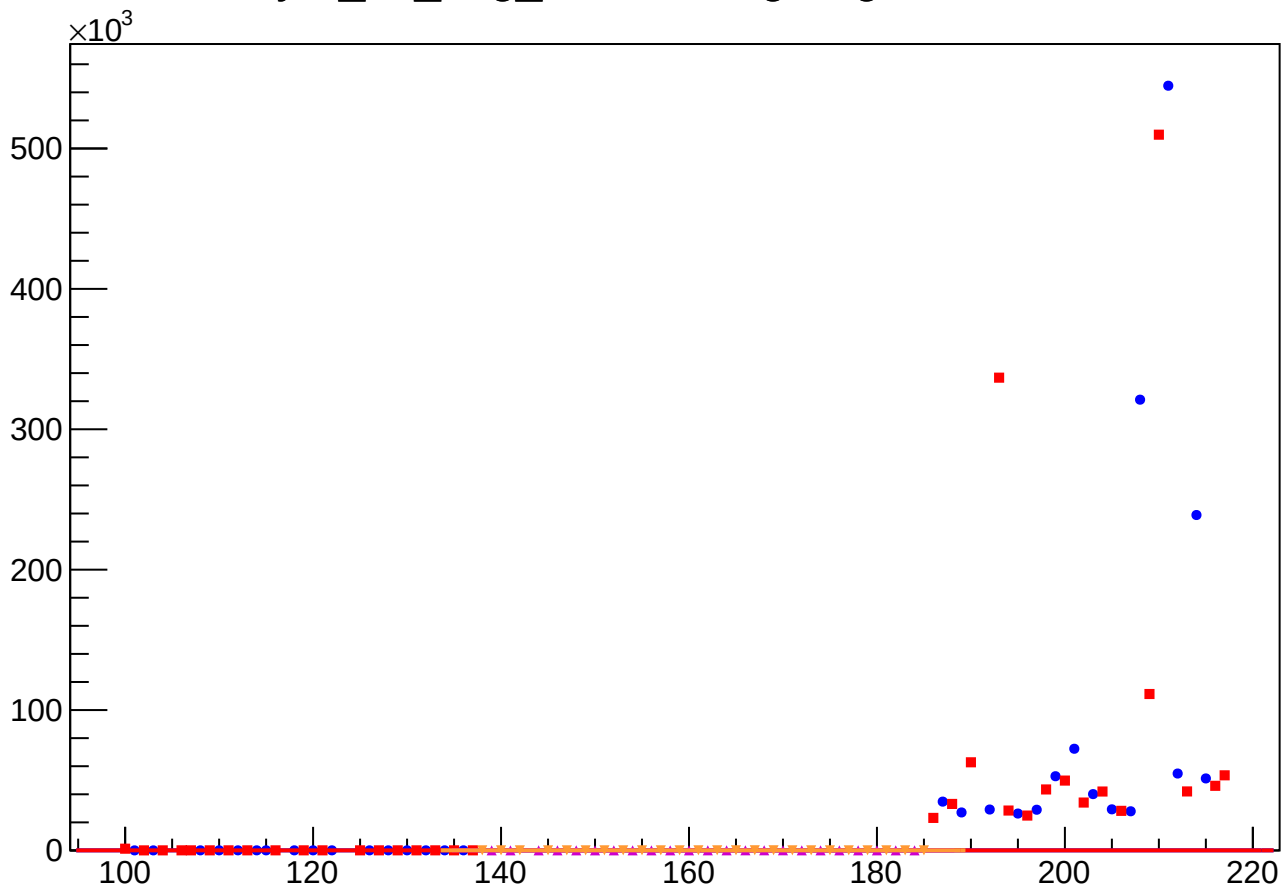
Right: 8.407 ± 21.402 χ^2/NDF : 55.3/59

In: -19.736 ± 17.532 χ^2/NDF : 46.3/50

Out: 12.947 ± 17.559 χ^2/NDF : 52.9/55

All: -3.419 ± 12.407 χ^2/NDF : 100.9/106

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.161 $\pm$ 0.021 χ^2 /NDF: 6711571.8/30

Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23

Right Out: 79.464 $\pm$ 0.022 χ^2 /NDF: 6552292.3/33

Left In: 89.622 $\pm$ 0.015 χ^2 /NDF: 509391.8/22

Left: 89.671 $\pm$ 0.011 χ^2 /NDF: 976435.5/46

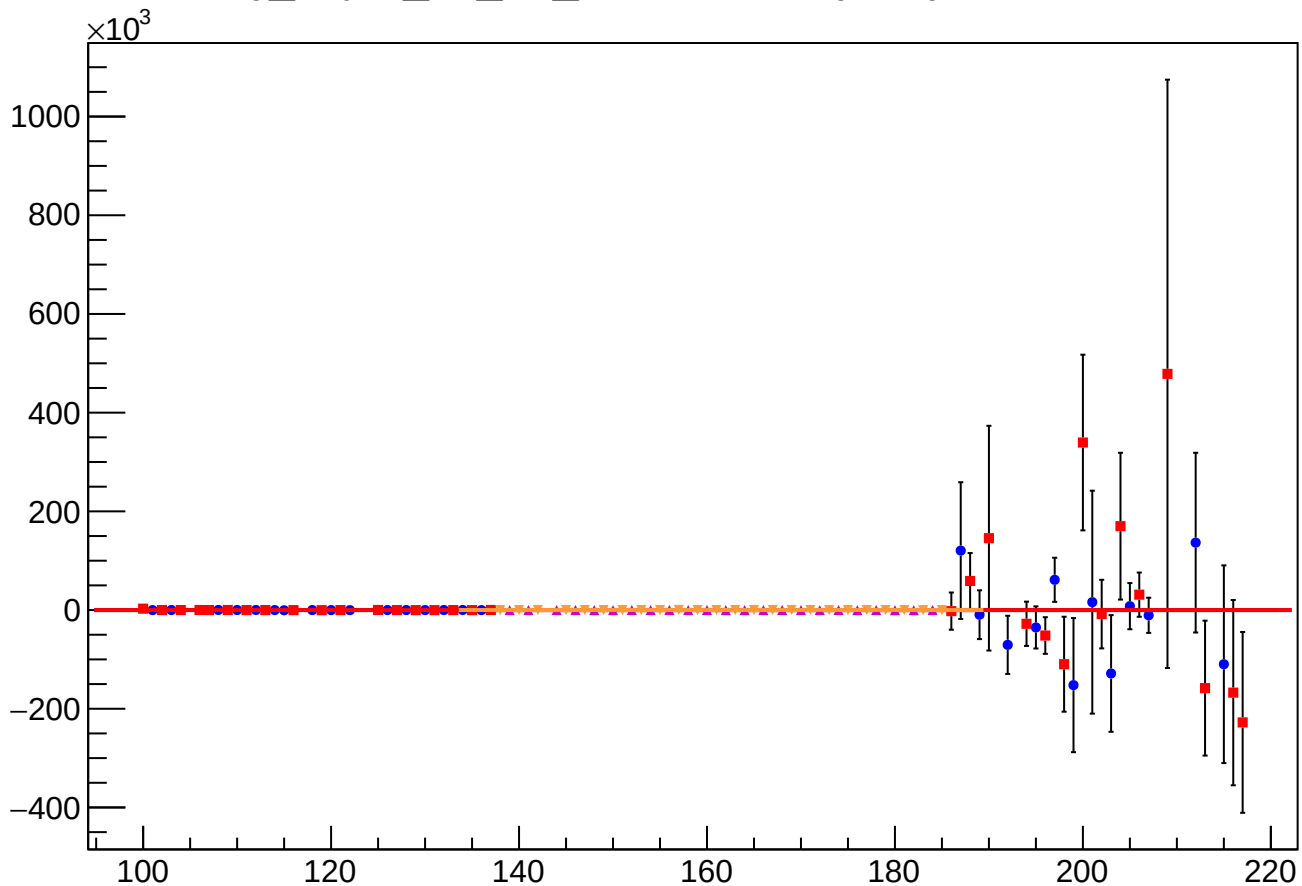
Right: 77.788 $\pm$ 0.015 χ^2 /NDF: 13275770.7/64

In: 85.037 $\pm$ 0.012 χ^2 /NDF: 7485750.9/53

Out: 86.320 $\pm$ 0.012 χ^2 /NDF: 7170463.1/57

All: 85.678 $\pm$ 0.009 χ^2 /NDF: 14661564.1/111

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.089 ± 30.012 χ^2/NDF : 22.2/27

Left Out: 15.274 ± 21.472 χ^2/NDF : 17.2/23

Right Out: -25.802 ± 30.473 χ^2/NDF : 27.7/31

Left In: 43.424 ± 21.593 χ^2/NDF : 31.4/22

Left: 29.270 ± 15.226 χ^2/NDF : 49.5/46

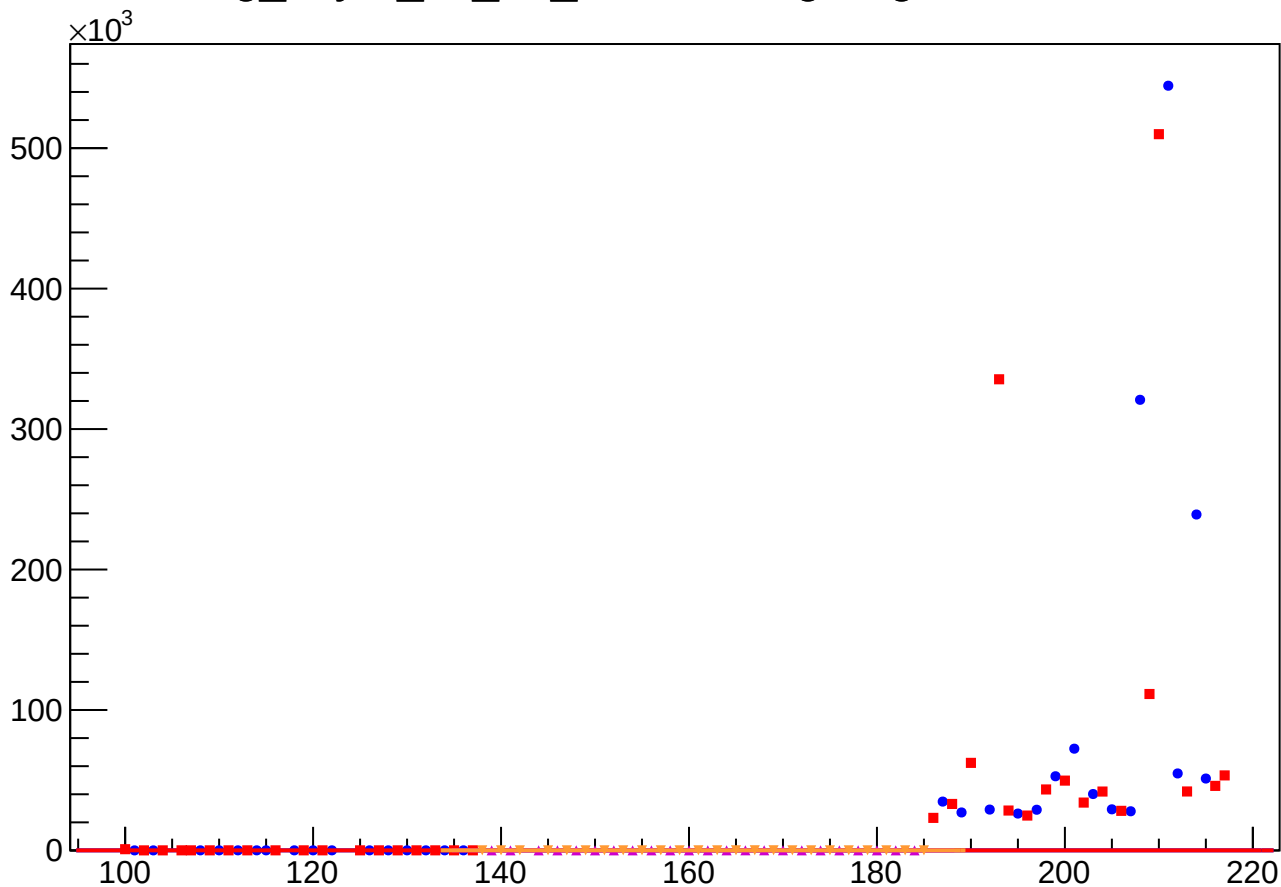
Right: -8.598 ± 21.383 χ^2/NDF : 50.5/59

In: 31.371 ± 17.528 χ^2/NDF : 54.6/50

Out: 1.646 ± 17.552 χ^2/NDF : 46.1/55

All: 16.529 ± 12.403 χ^2/NDF : 102.1/106

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.092 $\pm$ 0.021 χ^2 /NDF: 6710880.8/30

Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23

Right Out: 79.413 $\pm$ 0.022 χ^2 /NDF: 6544606.3/33

Left In: 89.628 $\pm$ 0.015 χ^2 /NDF: 511042.3/22

Left: 89.670 $\pm$ 0.011 χ^2 /NDF: 976153.9/46

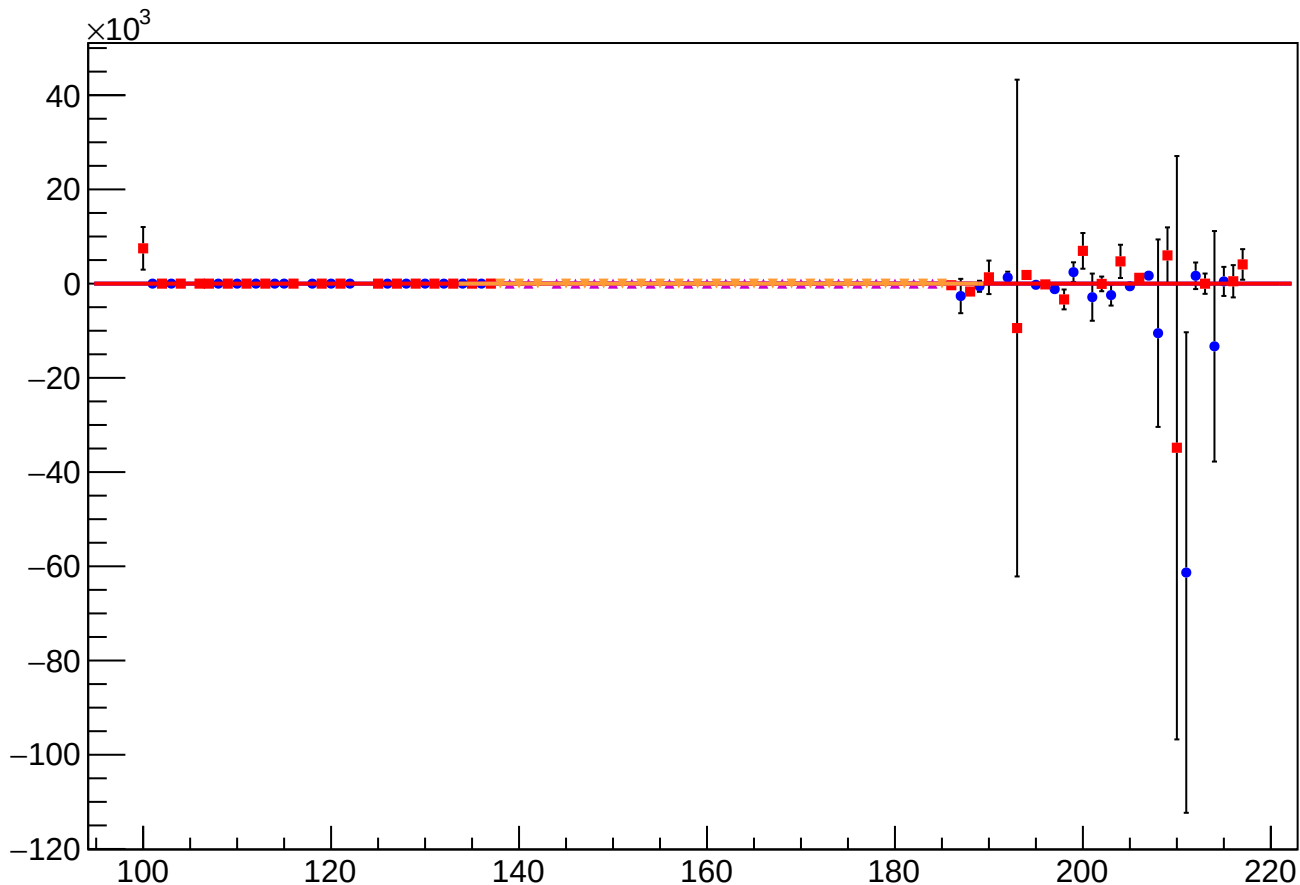
Right: 77.727 $\pm$ 0.015 χ^2 /NDF: 13267540.0/64

In: 85.011 $\pm$ 0.012 χ^2 /NDF: 7489965.5/53

Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 7162373.6/57

All: 85.652 $\pm$ 0.009 χ^2 /NDF: 14657697.4/111

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.893 ± 0.531 $\chi^2/\text{NDF}: 27.8/30$

Left Out: -0.516 ± 0.391 $\chi^2/\text{NDF}: 20.7/23$

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 33.6/33$

Left In: -0.072 ± 0.390 $\chi^2/\text{NDF}: 20.4/22$

Left: -0.293 ± 0.276 $\chi^2/\text{NDF}: 41.7/46$

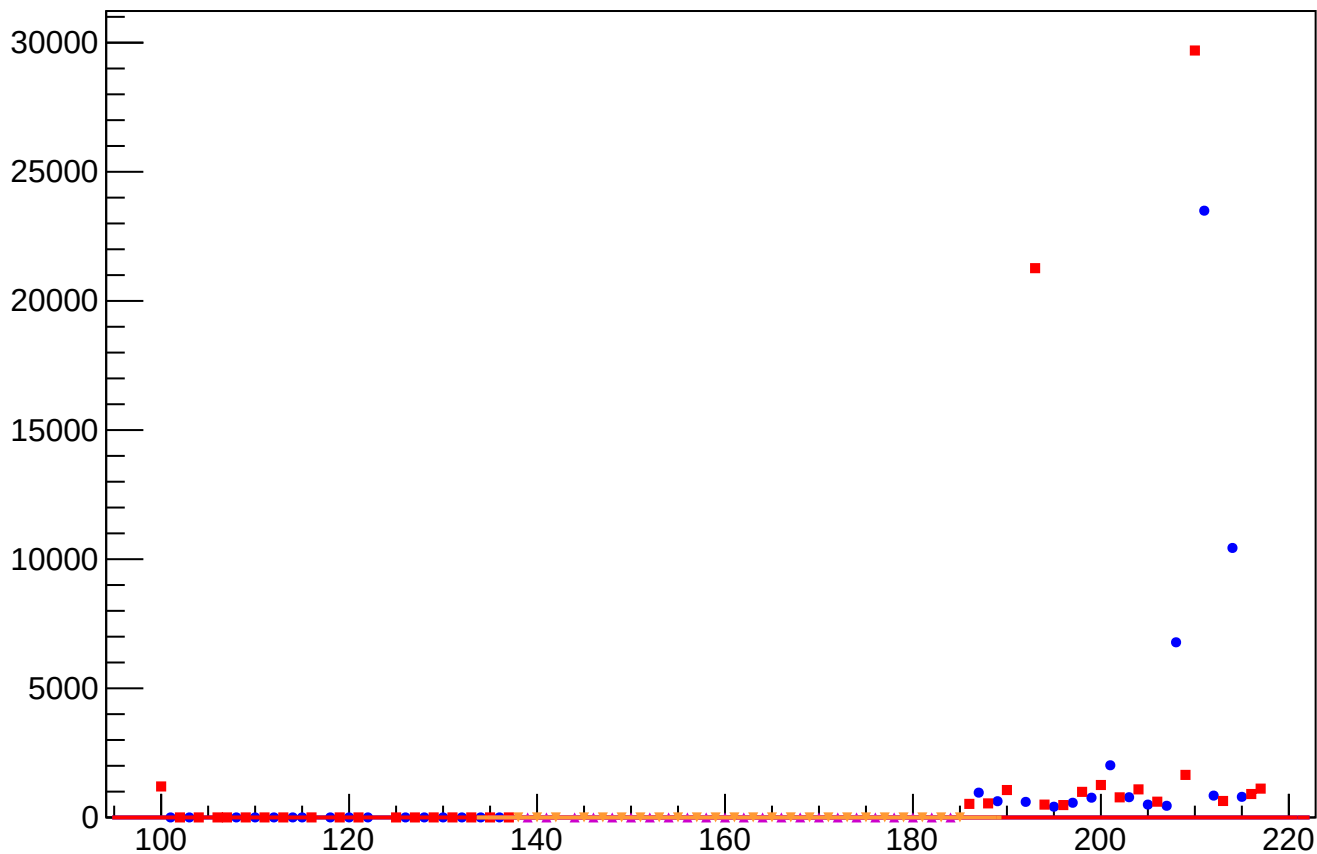
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 61.9/64$

In: 0.267 ± 0.315 $\chi^2/\text{NDF}: 50.3/53$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 55.9/57$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 107.5/111$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 6947134.4/30

Left Out: 1.470+/-0.000 χ^2/NDF : 1154842.2/23

Right Out: 1.317+/-0.000 χ^2/NDF : 7087119.3/33

Left In: 1.461+/-0.000 χ^2/NDF : 1048537.6/22

Left: 1.466+/-0.000 χ^2/NDF : 2203936.9/46

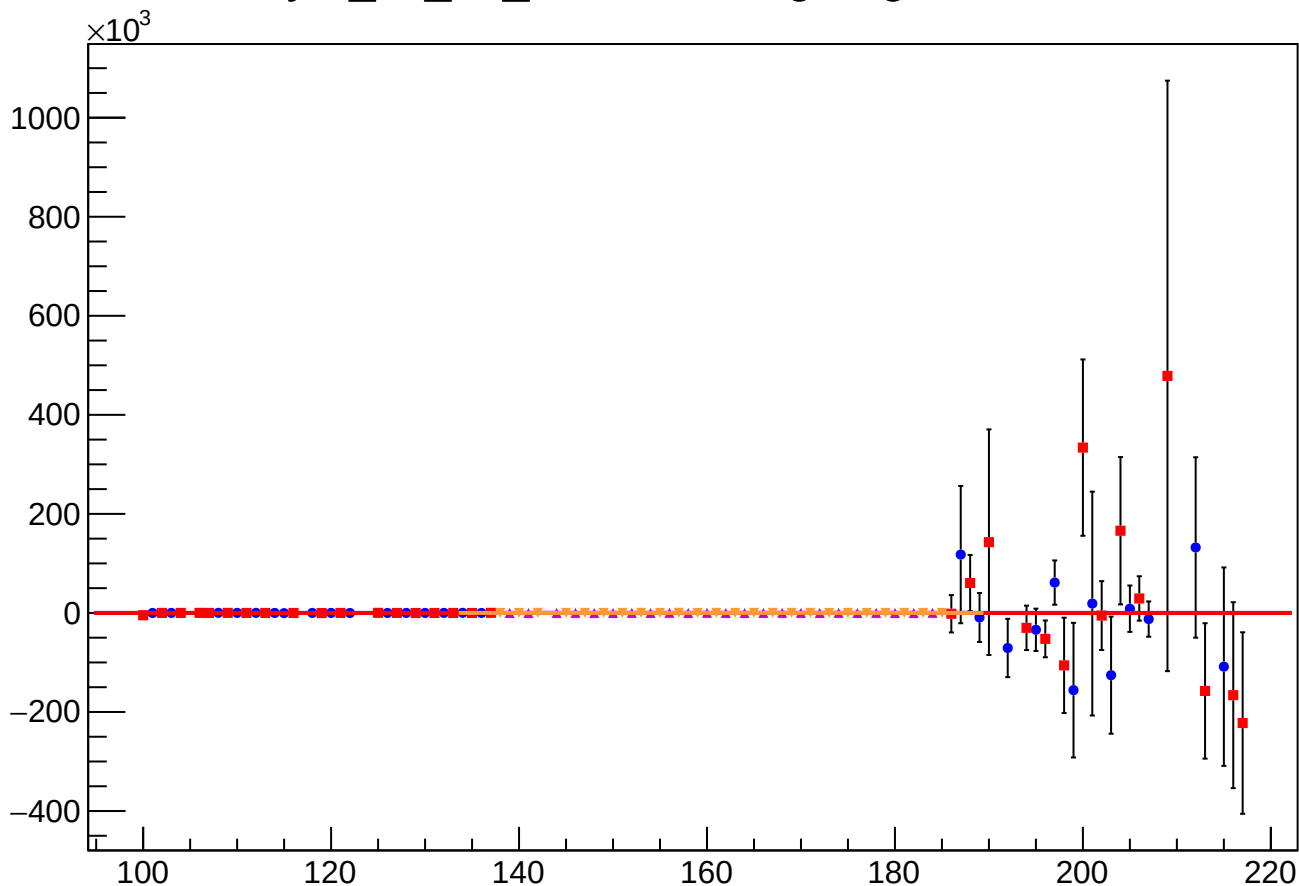
Right: 1.274+/-0.000 χ^2/NDF : 14057454.0/64

In: 1.382+/-0.000 χ^2/NDF : 8232088.2/53

Out: 1.419+/-0.000 χ^2/NDF : 8345920.8/57

All: 1.400+/-0.000 χ^2/NDF : 16591647.2/111

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.381 ± 30.020 χ^2/NDF : 22.1/27

Left Out: 15.770 ± 21.479 χ^2/NDF : 17.1/23

Right Out: -26.412 ± 30.482 χ^2/NDF : 27.6/31

Left In: 43.905 ± 21.600 χ^2/NDF : 31.1/22

Left: 29.758 ± 15.231 χ^2/NDF : 49.0/46

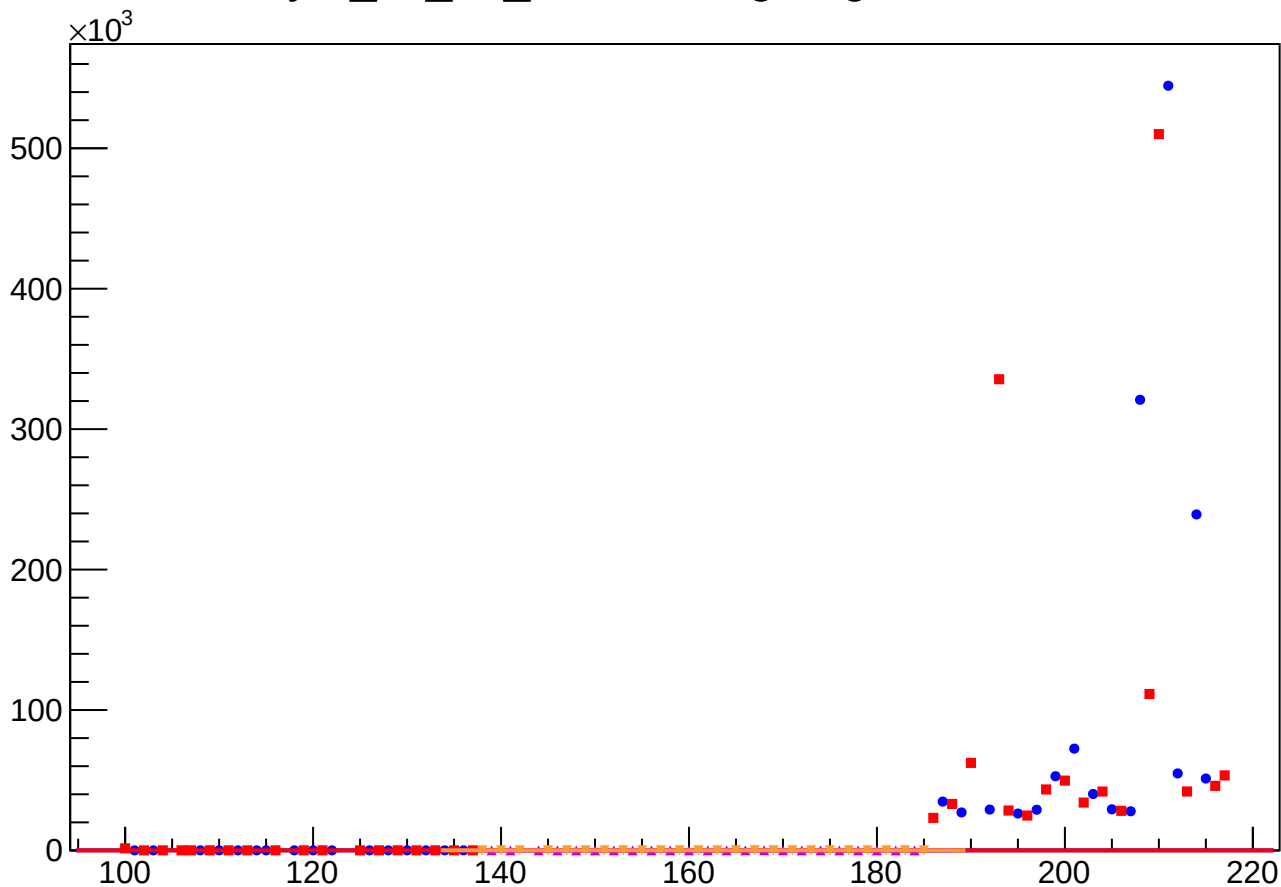
Right: -9.258 ± 21.389 χ^2/NDF : 50.3/59

In: 31.446 ± 17.533 χ^2/NDF : 54.1/50

Out: 1.774 ± 17.558 χ^2/NDF : 45.9/55

All: 16.631 ± 12.407 χ^2/NDF : 101.5/106

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.113 $\pm$ 0.021 χ^2 /NDF: 6711034.3/30

Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23

Right Out: 79.409 $\pm$ 0.022 χ^2 /NDF: 6553924.2/33

Left In: 89.655 $\pm$ 0.015 χ^2 /NDF: 511848.9/22

Left: 89.697 $\pm$ 0.011 χ^2 /NDF: 977707.1/46

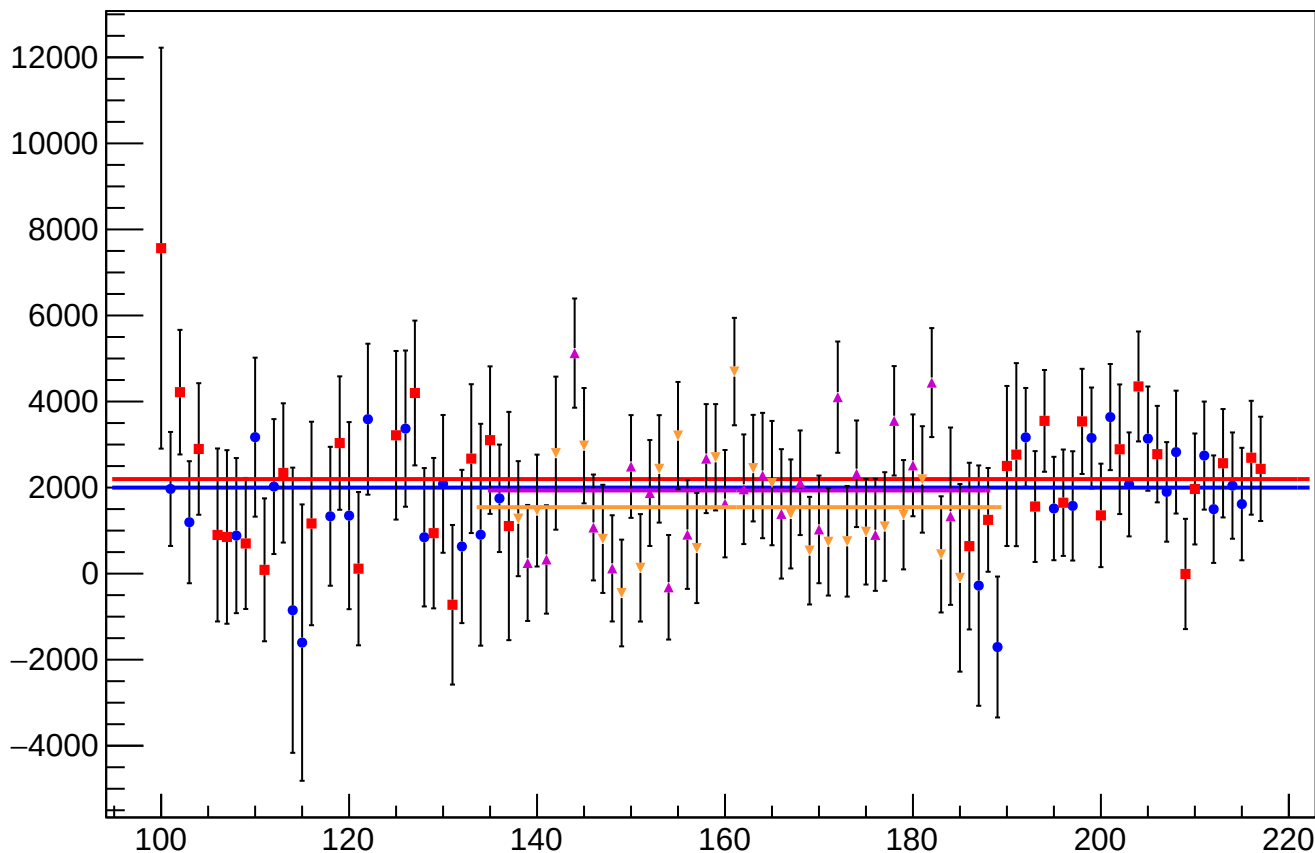
Right: 77.736 $\pm$ 0.015 χ^2 /NDF: 13276831.8/64

In: 85.035 $\pm$ 0.012 χ^2 /NDF: 7491021.4/53

Out: 86.312 $\pm$ 0.012 χ^2 /NDF: 7173262.9/57

All: 85.673 $\pm$ 0.009 χ^2 /NDF: 14669579.5/111

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1999.207+/-263.120 χ^2/NDF : 17.7/30

Left Out: 1544.102+/-266.270 χ^2/NDF : 20.0/23

Right Out: 2197.389+/-255.535 χ^2/NDF : 25.4/34

Left In: 1933.000+/-268.006 χ^2/NDF : 27.0/22

Left: 1737.287+/-188.892 χ^2/NDF : 48.0/46

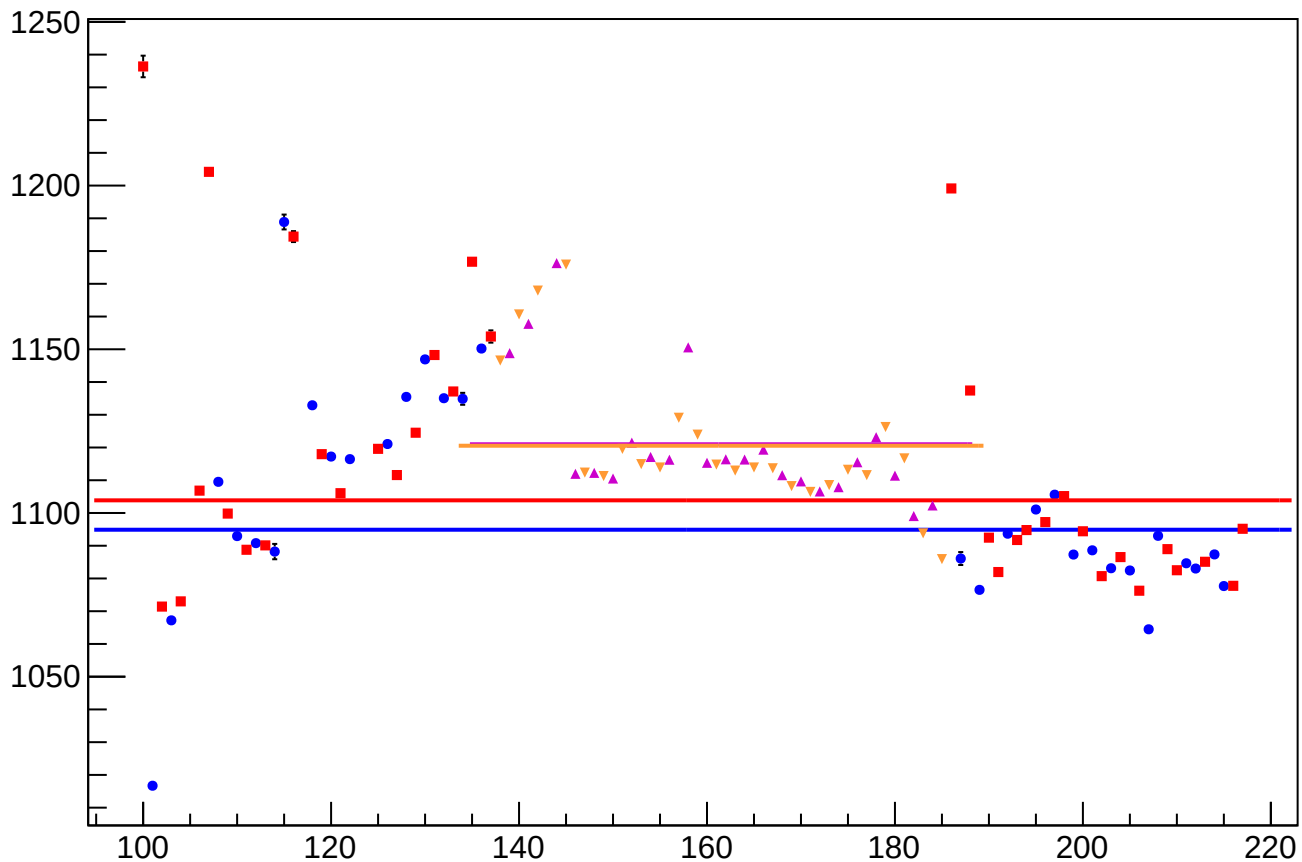
Right: 2101.196+/-183.314 χ^2/NDF : 43.4/65

In: 1966.712+/-187.758 χ^2/NDF : 44.8/53

Out: 1884.179+/-184.369 χ^2/NDF : 48.5/58

All: 1924.694+/-131.550 χ^2/NDF : 93.4/112

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1094.886 $\pm$ 0.186 χ^2 /NDF: 23565.1/30

Left Out: 1120.543 $\pm$ 0.188 χ^2 /NDF:10252.7/23

Right Out: 1103.862 $\pm$ 0.181 χ^2 /NDF: 29205.2/34

Left In: 1120.991 $\pm$ 0.190 χ^2 /NDF:9641.8/22

Left: 1120.765 $\pm$ 0.134 χ^2 /NDF: 19897.3/46

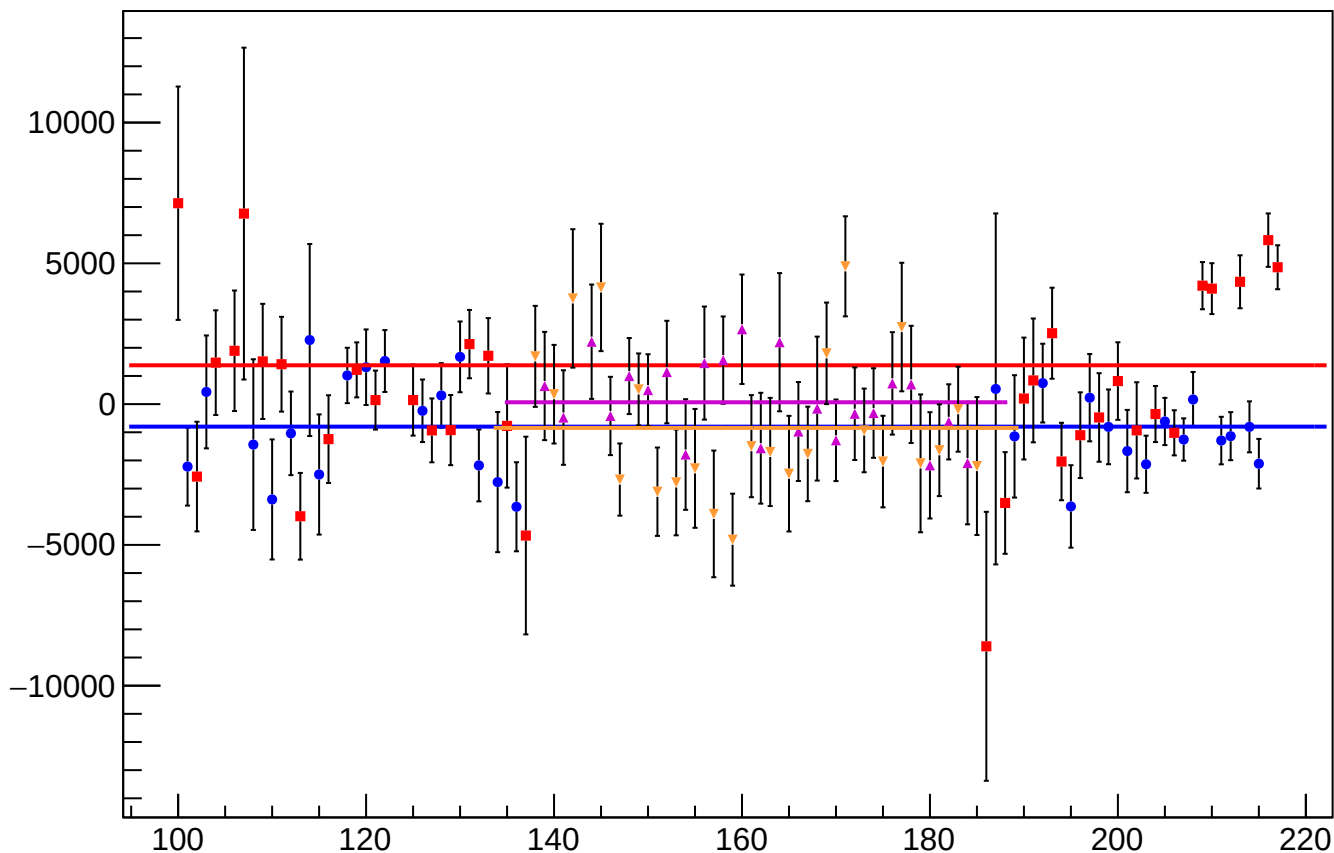
Right: 1099.505 $\pm$ 0.130 χ^2 /NDF: 53968.0/65

In: 1107.698 $\pm$ 0.133 χ^2 /NDF:42868.9/53

Out: 1111.860 $\pm$ 0.130 χ^2 /NDF:43543.8/58

All: 1109.817 $\pm$ 0.093 χ^2 /NDF: 86912.7/112

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -799.526 $\pm$ 219.194 χ^2/NDF : 36.6/30

Left Out: -845.009 $\pm$ 361.141 χ^2/NDF : 43.2/23

Right Out: 1379.358 $\pm$ 221.908 χ^2/NDF : 145.3/34

Left In: 65.738 $\pm$ 358.785 χ^2/NDF : 12.1/22

Left: -386.655 $\pm$ 254.528 χ^2/NDF : 58.6/46

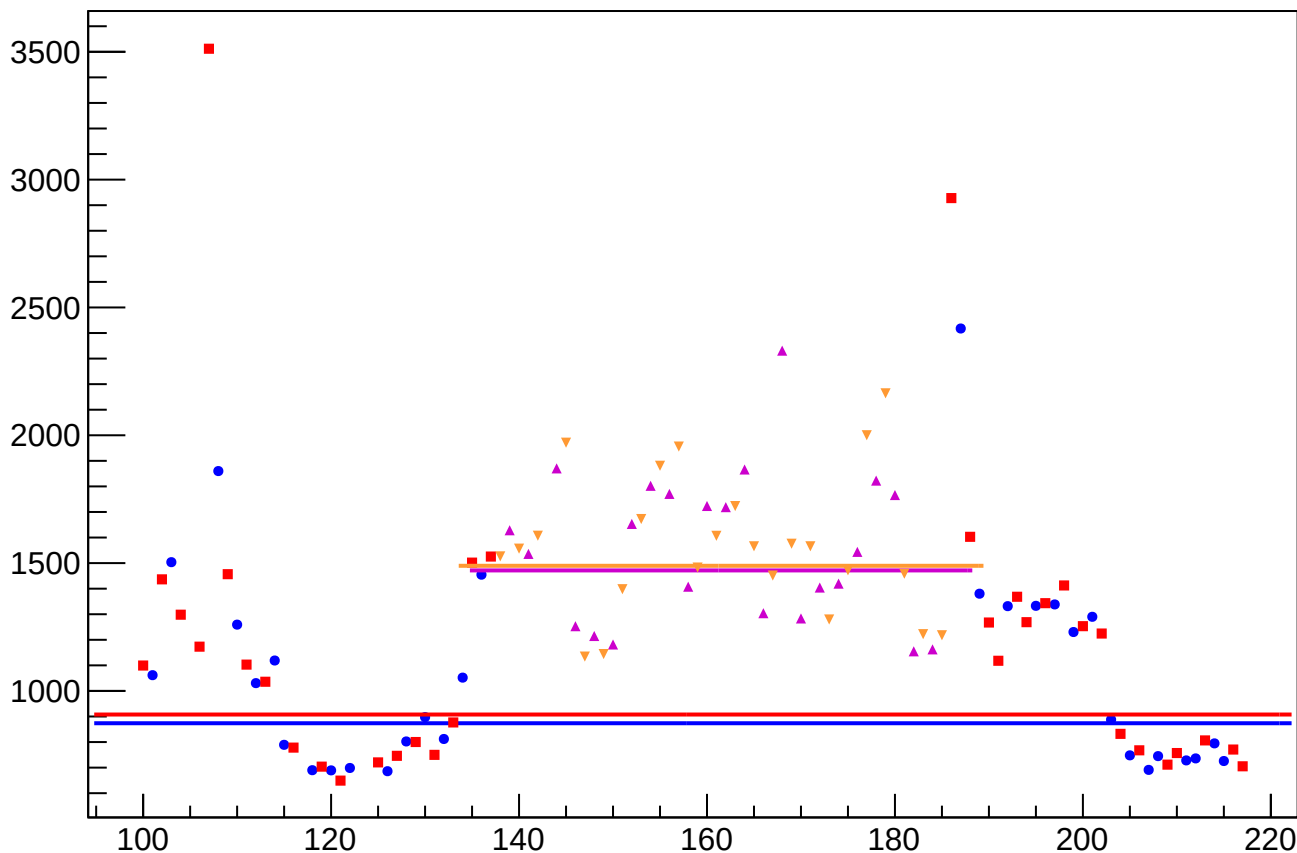
Right: 276.512 $\pm$ 155.944 χ^2/NDF : 230.7/65

In: -564.352 $\pm$ 187.049 χ^2/NDF : 53.0/53

Out: 769.701 $\pm$ 189.067 χ^2/NDF : 216.0/58

All: 95.516 $\pm$ 132.972 χ^2/NDF : 294.2/112

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 873.617 ± 0.155 χ^2/NDF : 2565331.5/30

Left Out: 1489.507 ± 0.255 χ^2/NDF : 1009228.3/23

Right Out: 907.698 ± 0.157 χ^2/NDF : 3442415.2/34

Left In: 1471.394 ± 0.254 χ^2/NDF : 1105310.5/22

Left: 1480.391 ± 0.180 χ^2/NDF : 2117070.9/46

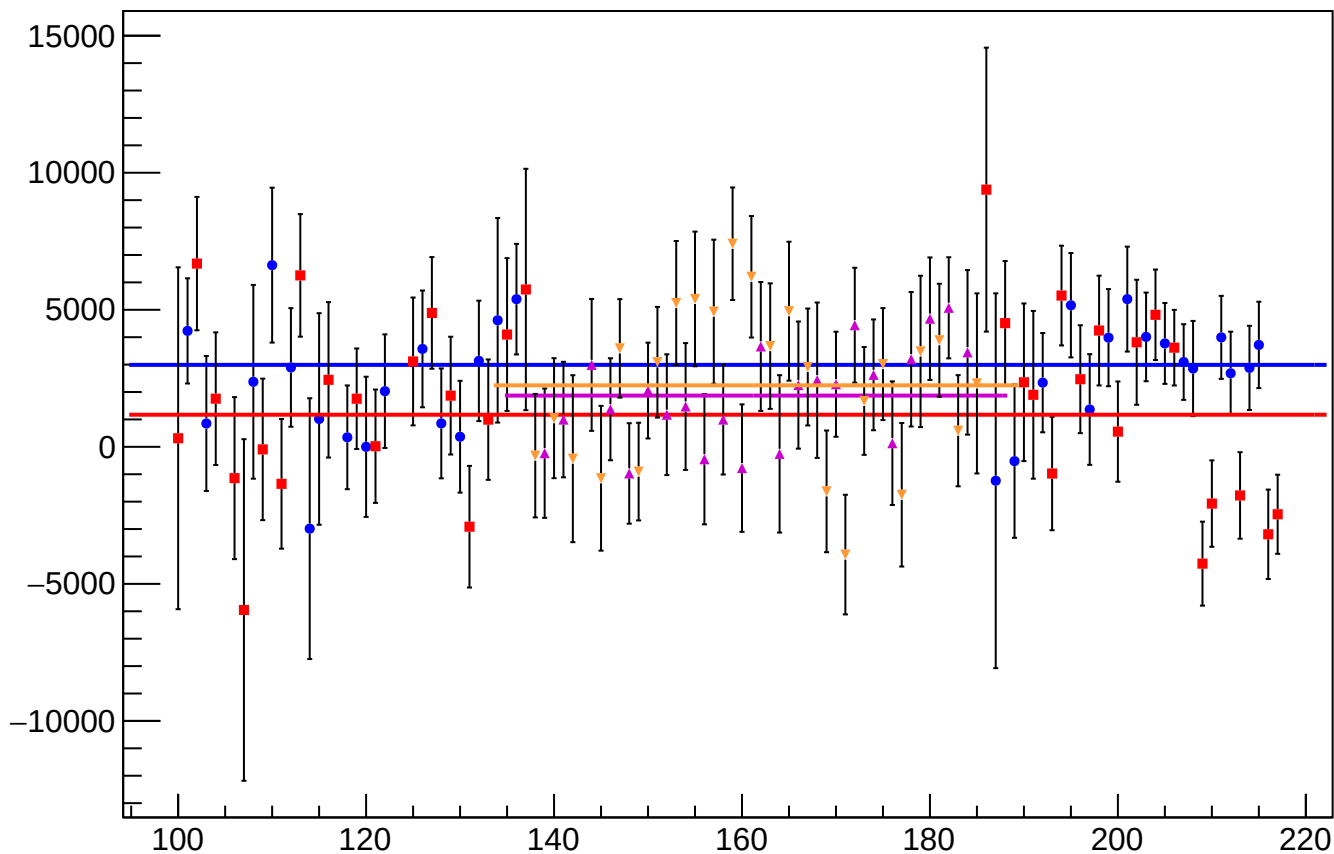
Right: 890.448 ± 0.110 χ^2/NDF : 6031624.3/65

In: 1036.090 ± 0.132 χ^2/NDF : 7713529.0/53

Out: 1067.161 ± 0.134 χ^2/NDF : 8219768.5/58

All: 1051.459 ± 0.094 χ^2/NDF : 15960594.8/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 2990.880 $\pm$ 357.454 χ^2 /NDF: 20.0/30

Left Out: 2244.415 $\pm$ 456.474 χ^2 /NDF:38.6/23

Right Out: 1171.797 $\pm$ 355.907 χ^2 /NDF: 81.7/34

Left In: 1869.792 $\pm$ 455.465 χ^2 /NDF:14.9/22

Left: 2056.689 $\pm$ 322.419 χ^2 /NDF: 53.8/46

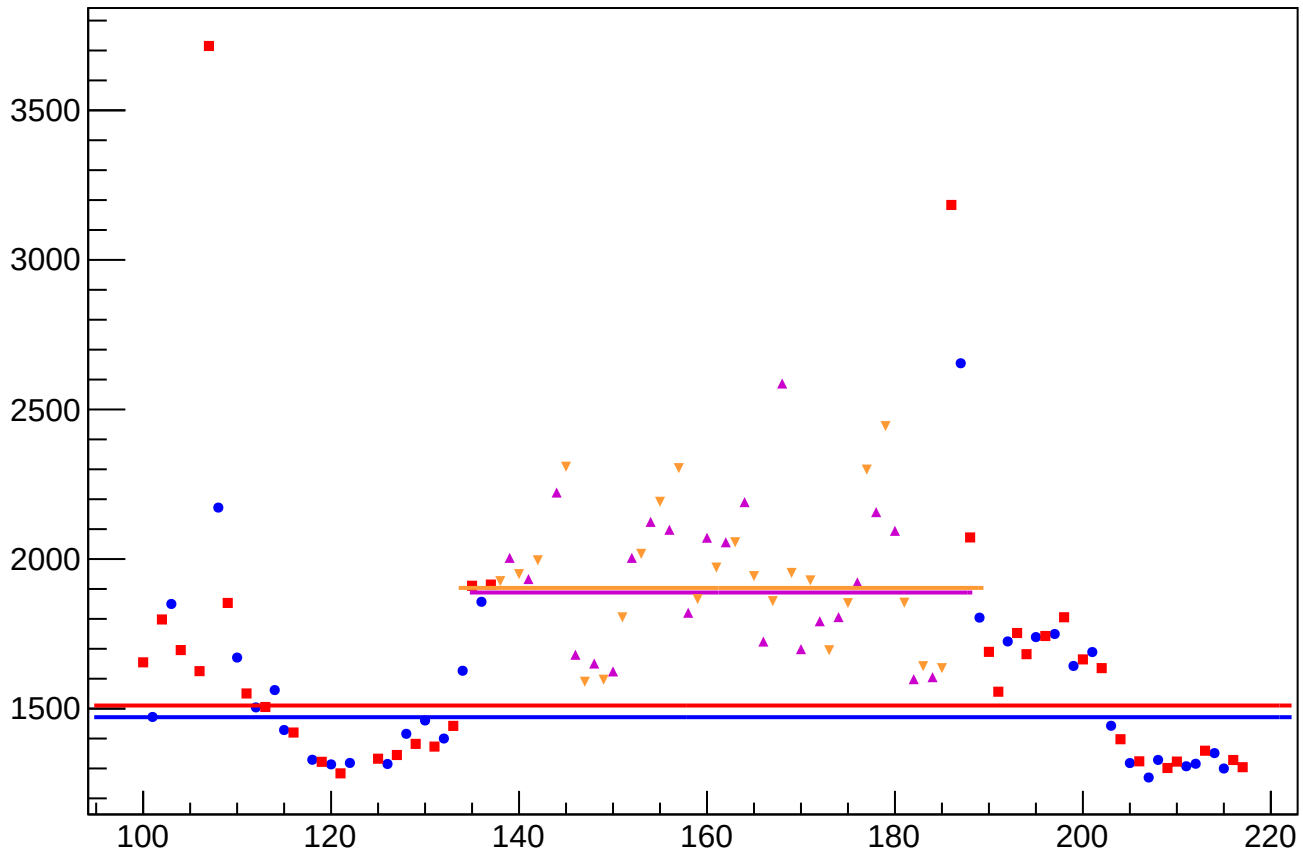
Right: 2077.392 $\pm$ 252.209 χ^2 /NDF: 114.8/65

In: 2563.565 $\pm$ 281.196 χ^2 /NDF:38.6/53

Out: 1577.327 $\pm$ 280.676 χ^2 /NDF:123.8/58

All: 2069.533 $\pm$ 198.652 χ^2 /NDF: 168.6/112

asym_usl_rms vs Slug, Sign Corrected



Right In: 1471.388+/-0.253 χ^2/NDF : 666273.0/30

Left Out: 1903.581+/-0.323 χ^2/NDF : 461788.9/23

Right Out: 1510.391+/-0.252 χ^2/NDF : 1148880.7/34

Left In: 1888.121+/-0.322 χ^2/NDF : 504568.6/22

Left: 1895.834+/-0.228 χ^2/NDF : 967507.1/46

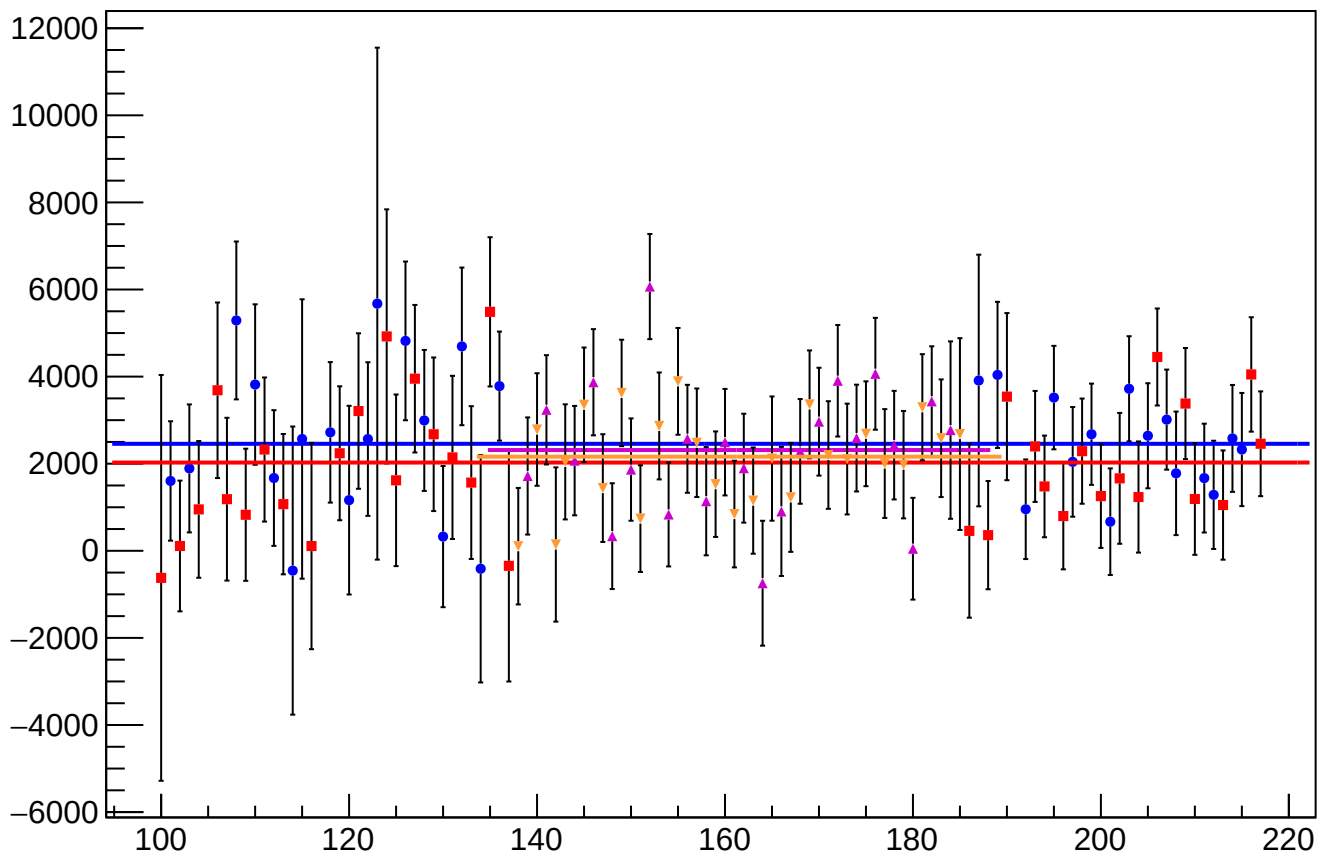
Right: 1490.974+/-0.178 χ^2/NDF : 1827111.3/65

In: 1630.230+/-0.199 χ^2/NDF : 2206971.5/53

Out: 1659.046+/-0.198 χ^2/NDF : 2533535.8/58

All: 1644.665+/-0.140 χ^2/NDF : 4751028.1/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2456.986 $\pm$ 263.049 χ^2 /NDF: 21.4/31

Left Out: 2161.427 $\pm$ 257.518 χ^2 /NDF:15.1/24

Right Out: 2026.577 $\pm$ 256.191 χ^2 /NDF: 27.5/34

Left In: 2313.505 $\pm$ 264.429 χ^2 /NDF:31.3/22

Left: 2235.453 $\pm$ 184.488 χ^2 /NDF: 46.5/47

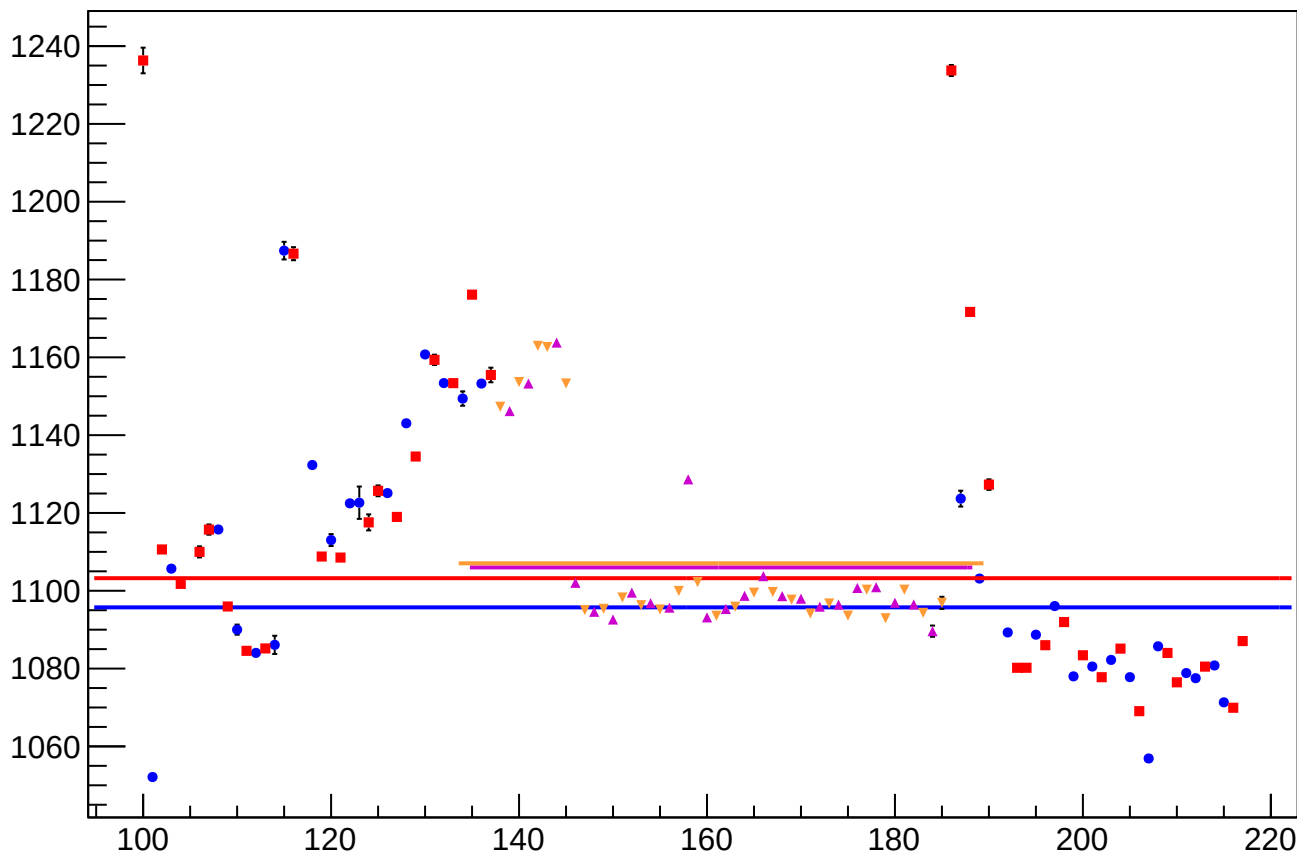
Right: 2236.098 $\pm$ 183.531 χ^2 /NDF: 50.3/66

In: 2385.621 $\pm$ 186.490 χ^2 /NDF:52.9/54

Out: 2093.654 $\pm$ 181.622 χ^2 /NDF:42.7/59

All: 2235.777 $\pm$ 130.113 χ^2 /NDF: 96.8/114

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1095.737 $\pm$ 0.186 χ^2 /NDF: 24348.4/31

Left Out: 1107.057 $\pm$ 0.182 χ^2 /NDF:15175.6/24

Right Out: 1103.232 $\pm$ 0.181 χ^2 /NDF: 37794.7/34

Left In: 1105.997 $\pm$ 0.187 χ^2 /NDF:11551.3/22

Left: 1106.541 $\pm$ 0.130 χ^2 /NDF: 26743.4/47

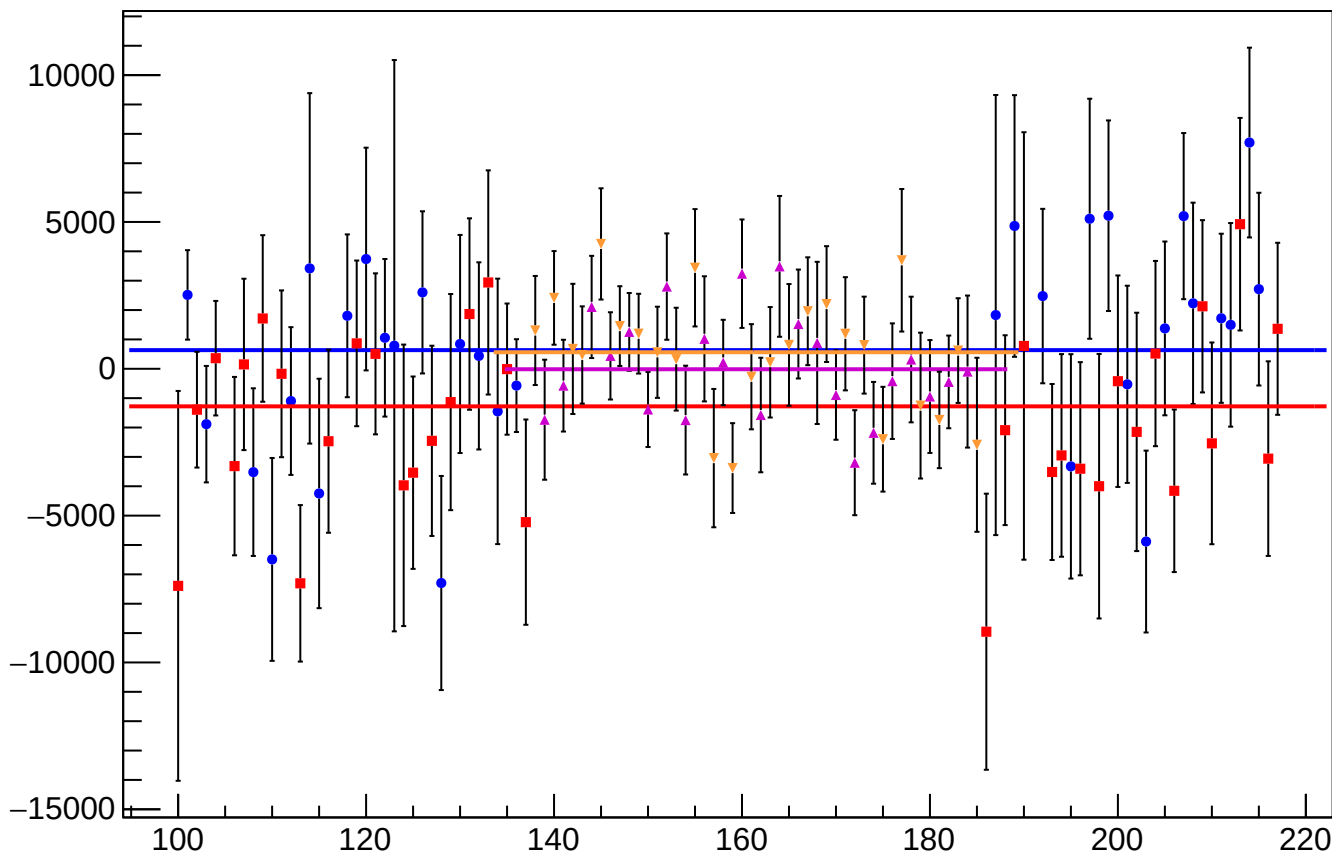
Right: 1099.583 $\pm$ 0.130 χ^2 /NDF: 62976.5/66

In: 1100.840 $\pm$ 0.132 χ^2 /NDF:37413.1/54

Out: 1105.134 $\pm$ 0.128 χ^2 /NDF:53192.0/59

All: 1103.044 $\pm$ 0.092 χ^2 /NDF: 91149.5/114

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 635.236 $\pm$ 524.570 χ^2/NDF : 37.1/31

Left Out: 563.282 $\pm$ 360.901 χ^2/NDF :26.8/24

Right Out: -1278.877 $\pm$ 526.652 χ^2/NDF : 25.8/34

Left In: -15.520 $\pm$ 366.854 χ^2/NDF :20.1/22

Left: 278.615 $\pm$ 257.275 χ^2/NDF : 48.2/47

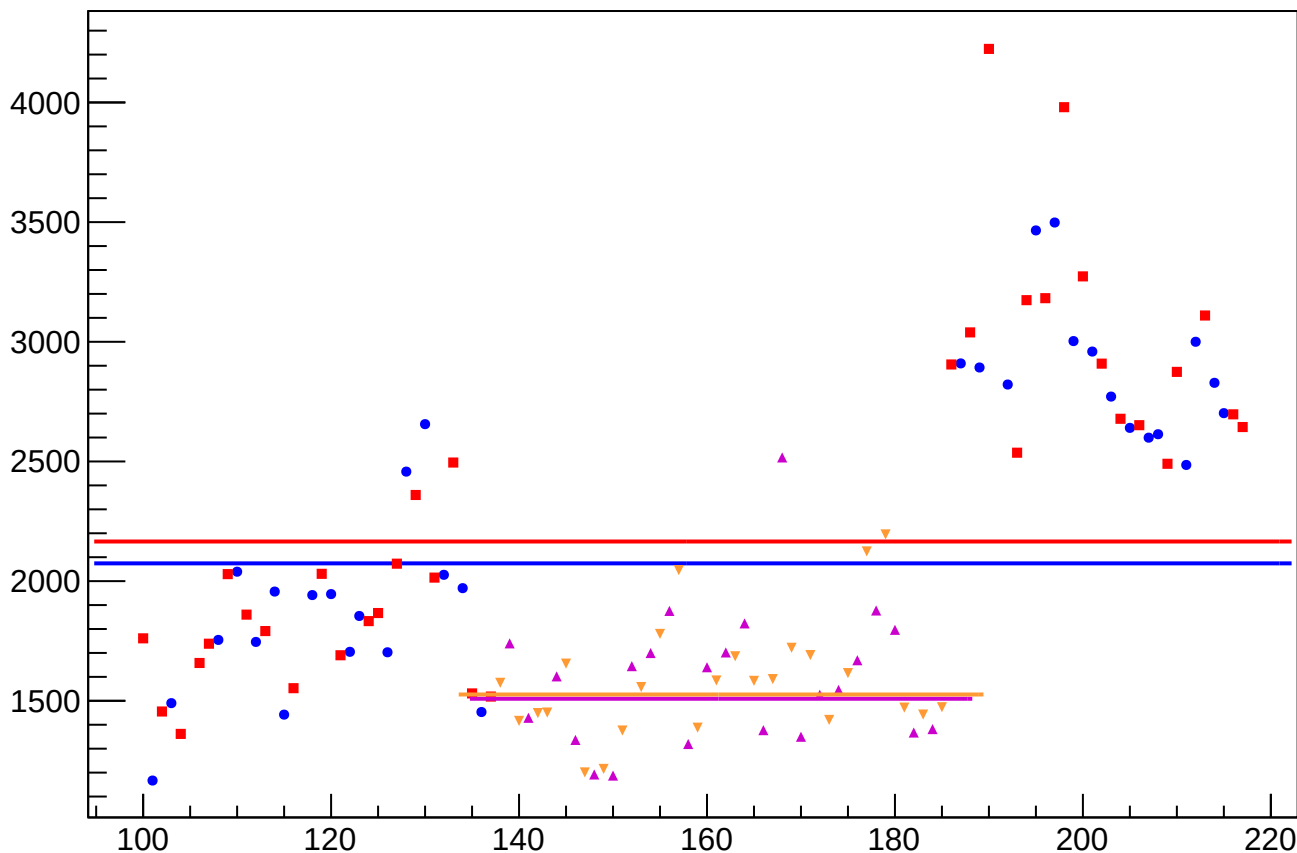
Right: -318.029 $\pm$ 371.661 χ^2/NDF : 69.5/66

In: 198.217 $\pm$ 300.632 χ^2/NDF :58.3/54

Out: -25.367 $\pm$ 297.707 χ^2/NDF :60.9/59

All: 85.332 $\pm$ 211.537 χ^2/NDF : 119.4/114

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2074.255+/-0.371 χ^2 /NDF: 3147522.7/31

Left Out: 1526.391+/-0.255 χ^2 /NDF: 753714.4/24

Right Out: 2165.585+/-0.372 χ^2 /NDF: 2958255.5/34

Left In: 1508.581+/-0.259 χ^2 /NDF: 931684.8/22

Left: 1517.632+/-0.182 χ^2 /NDF: 1687794.7/47

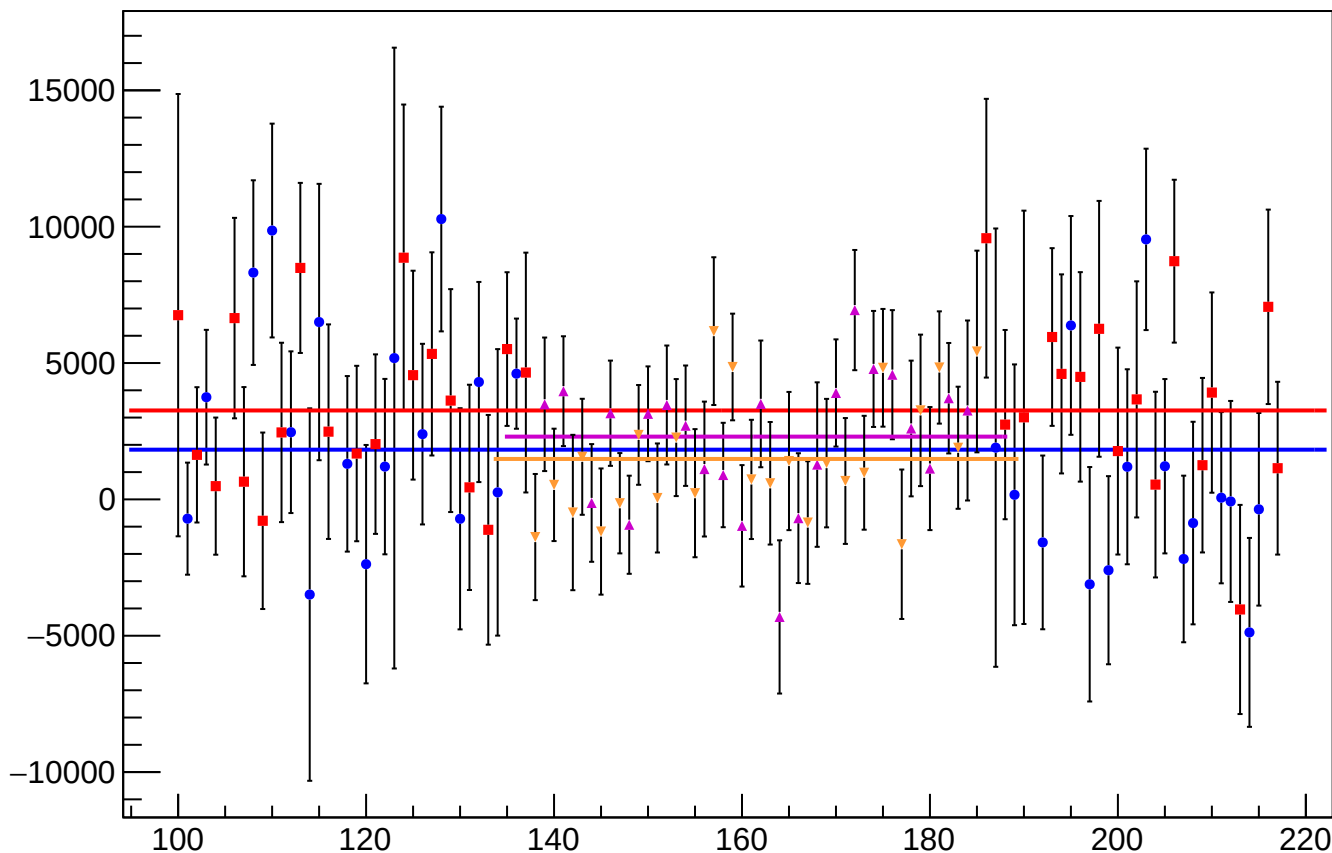
Right: 2119.739+/-0.263 χ^2 /NDF: 6135970.6/66

In: 1694.373+/-0.213 χ^2 /NDF: 5641049.4/54

Out: 1730.641+/-0.211 χ^2 /NDF: 5716662.7/59

All: 1712.685+/-0.150 χ^2 /NDF: 11372408.0/117

asym_usr_mean vs Slug, Sign Corrected



Right In: 1822.738 $\pm$ 609.739 χ^2 /NDF: 37.6/31

Left Out: 1482.365 $\pm$ 449.983 χ^2 /NDF: 20.9/24

Right Out: 3260.707 $\pm$ 604.756 χ^2 /NDF: 24.6/34

Left In: 2301.247 $\pm$ 459.040 χ^2 /NDF: 24.8/22

Left: 1883.648 $\pm$ 321.340 χ^2 /NDF: 47.4/47

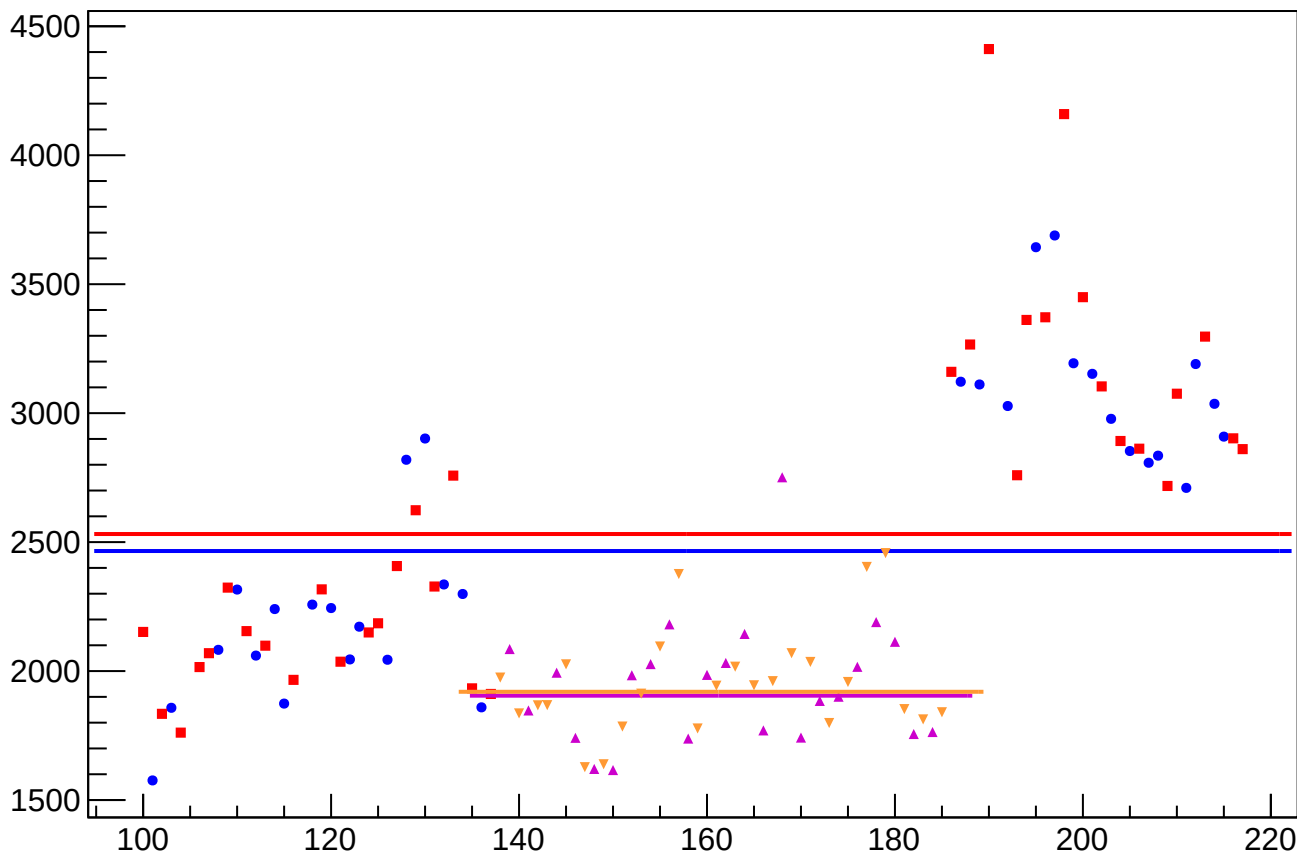
Right: 2547.622 $\pm$ 429.378 χ^2 /NDF: 65.0/66

In: 2128.147 $\pm$ 366.730 χ^2 /NDF: 62.8/54

Out: 2116.082 $\pm$ 361.011 χ^2 /NDF: 51.1/59

All: 2122.020 $\pm$ 257.271 χ^2 /NDF: 113.9/114

asym_usr_rms vs Slug, Sign Corrected



Right In: 2465.487 $\pm$ 0.431 χ^2 /NDF: 1801685.9/31

Left Out: 1919.732 $\pm$ 0.318 χ^2 /NDF:366218.1/24

Right Out: 2531.388 $\pm$ 0.428 χ^2 /NDF: 1829181.2/34

Left In: 1904.629 $\pm$ 0.325 χ^2 /NDF:447350.7/22

Left: 1912.331 $\pm$ 0.227 χ^2 /NDF: 814672.9/47

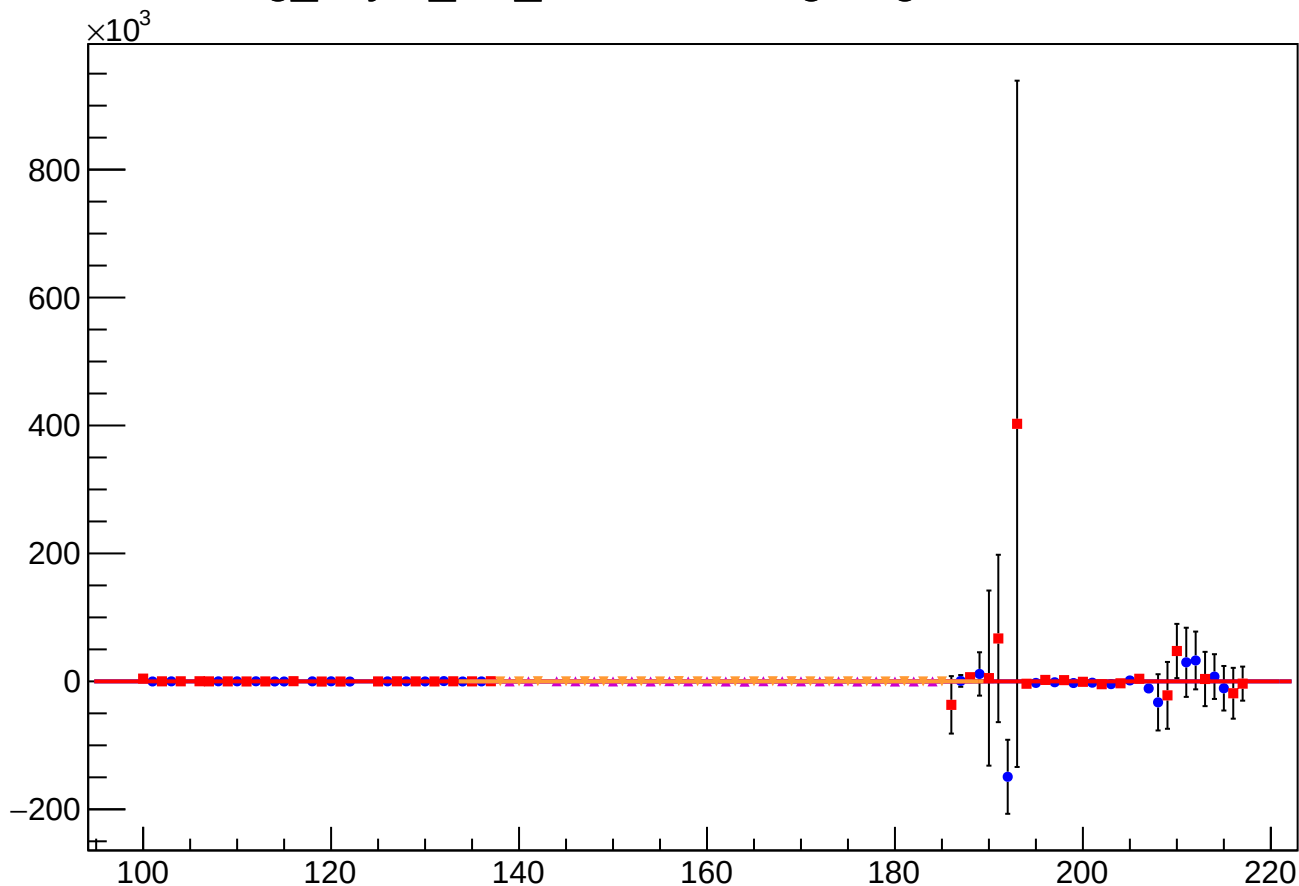
Right: 2498.708 $\pm$ 0.304 χ^2 /NDF: 3642644.4/66

In: 2107.518 $\pm$ 0.259 χ^2 /NDF:3329079.5/54

Out: 2137.697 $\pm$ 0.255 χ^2 /NDF:3512237.0/59

All: 2122.845 $\pm$ 0.182 χ^2 /NDF: 6848195.1/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.346 ± 36.762 $\chi^2/\text{NDF}: 33.0/30$

Left Out: 12.260 ± 26.260 $\chi^2/\text{NDF}: 35.9/23$

Right Out: 1.835 ± 36.747 $\chi^2/\text{NDF}: 21.1/34$

Left In: 24.786 ± 26.343 $\chi^2/\text{NDF}: 36.4/22$

Left: 18.503 ± 18.598 $\chi^2/\text{NDF}: 72.4/46$

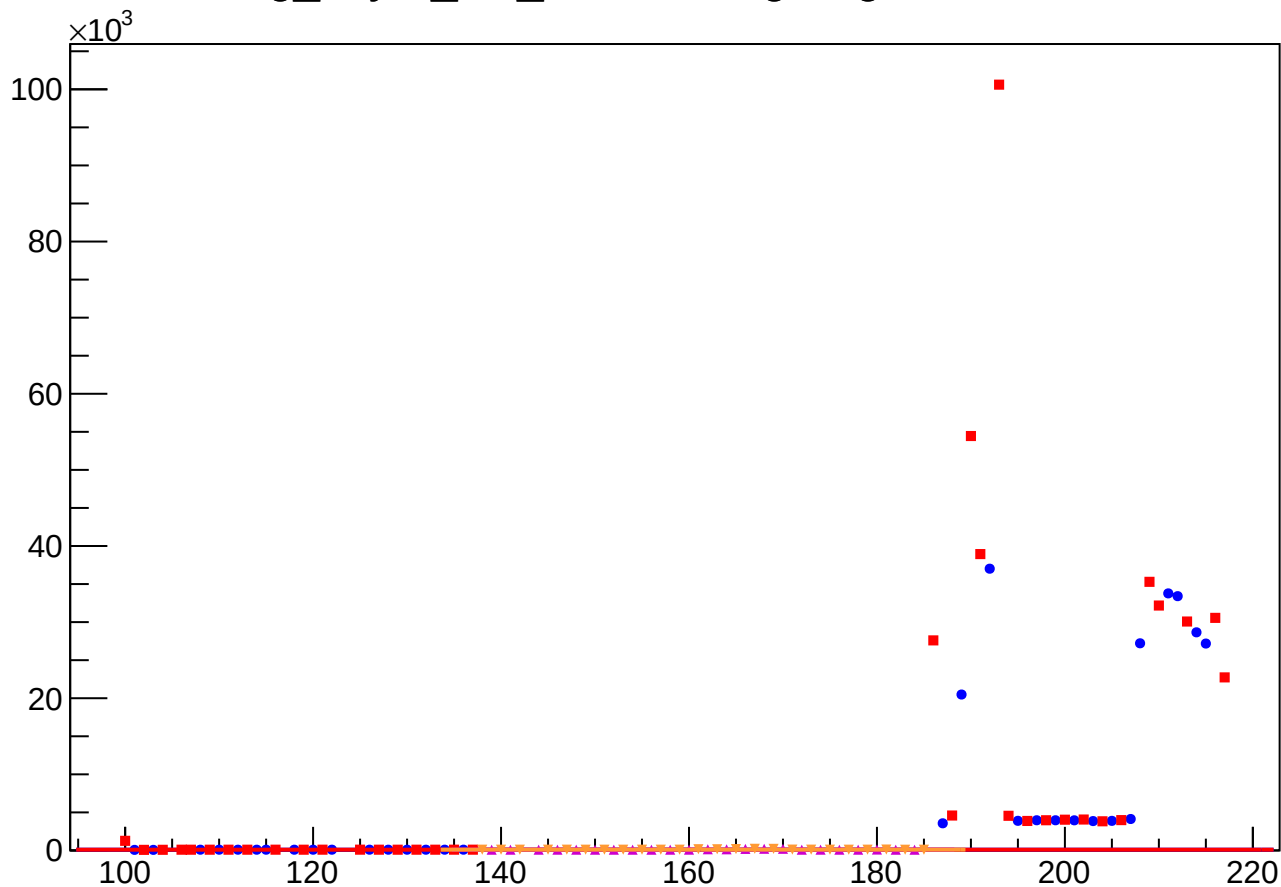
Right: -0.255 ± 25.989 $\chi^2/\text{NDF}: 54.1/65$

In: 15.581 ± 21.413 $\chi^2/\text{NDF}: 69.8/53$

Out: 8.736 ± 21.365 $\chi^2/\text{NDF}: 57.1/58$

All: 12.151 ± 15.124 $\chi^2/\text{NDF}: 126.9/112$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.154 $\pm$ 0.026 χ^2 /NDF: 18005902.8/30

Left Out: 108.059 $\pm$ 0.019 χ^2 /NDF: 1434979.3/23

Right Out: 98.362 $\pm$ 0.026 χ^2 /NDF: 18170466.9/34

Left In: 107.672 $\pm$ 0.019 χ^2 /NDF: 1491034.7/22

Left: 107.867 $\pm$ 0.013 χ^2 /NDF: 2926230.6/46

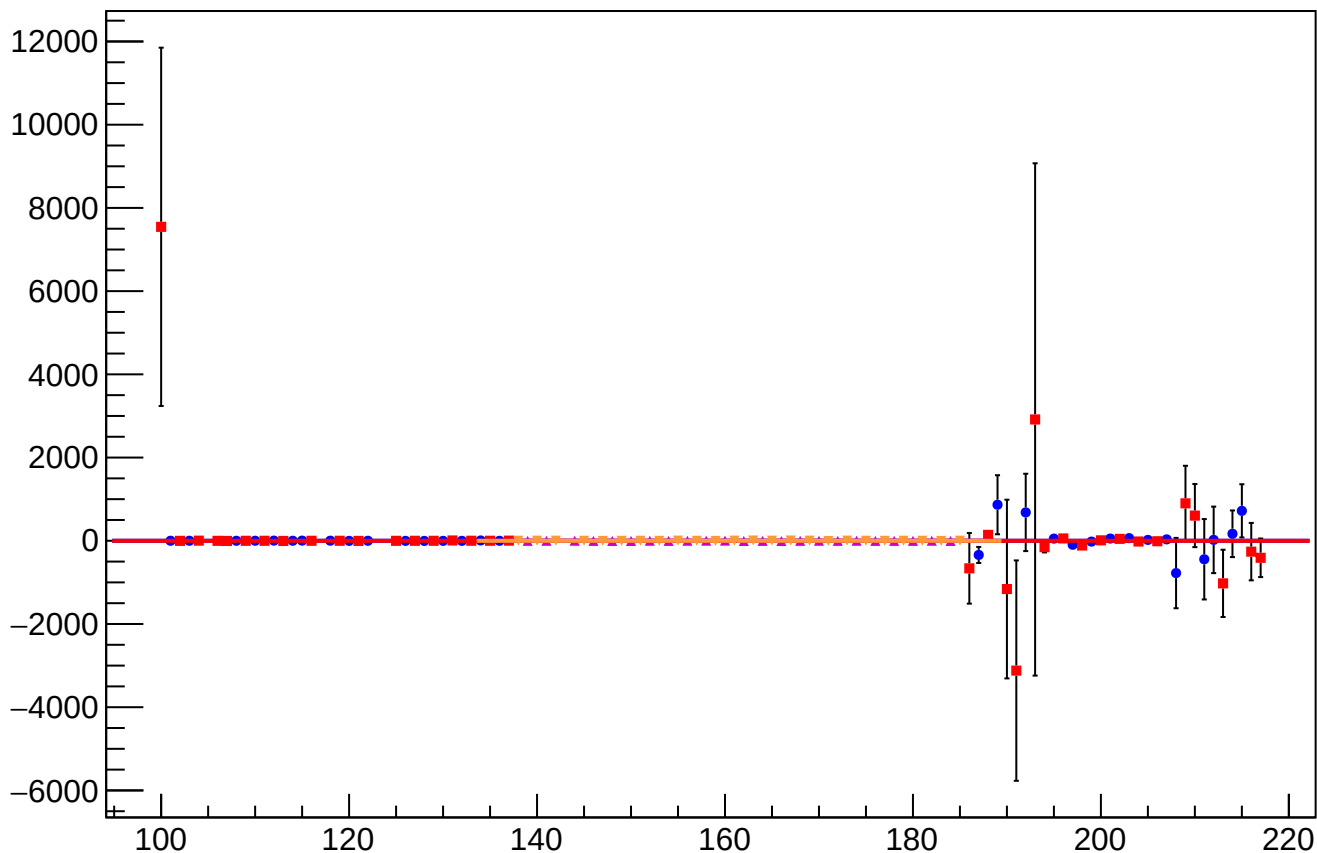
Right: 97.259 $\pm$ 0.018 χ^2 /NDF: 36179978.1/65

In: 103.764 $\pm$ 0.015 χ^2 /NDF: 19626661.2/53

Out: 104.781 $\pm$ 0.015 χ^2 /NDF: 19697644.6/58

All: 104.274 $\pm$ 0.011 χ^2 /NDF: 39326566.1/111

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.398 $\pm$ 0.617 χ^2/NDF : 21.8/30

Left Out: -0.534 $\pm$ 0.475 χ^2/NDF : 30.5/23

Right Out: -0.347 $\pm$ 0.644 χ^2/NDF : 33.8/34

Left In: -0.067 $\pm$ 0.485 χ^2/NDF : 25.0/22

Left: -0.306 $\pm$ 0.339 χ^2/NDF : 56.0/46

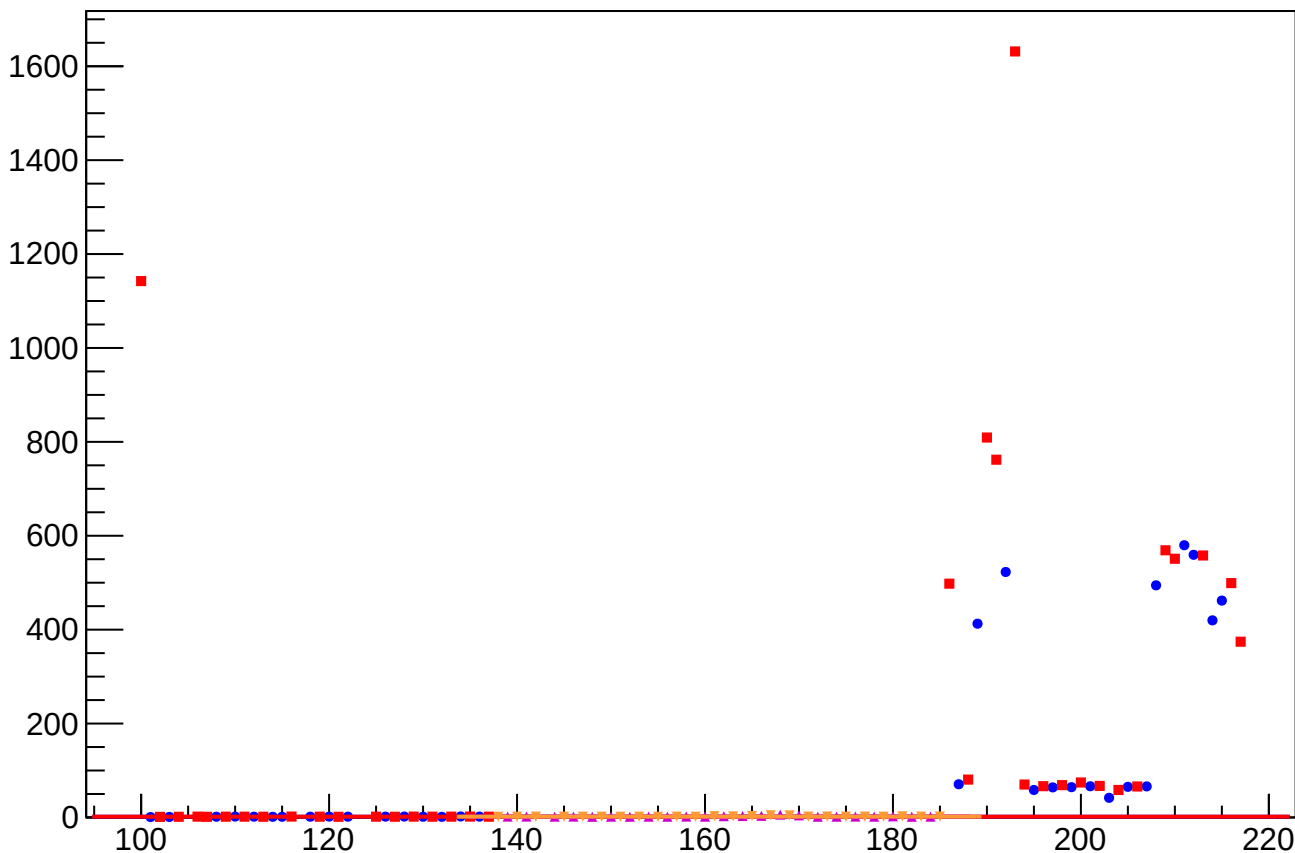
Right: 0.041 $\pm$ 0.445 χ^2/NDF : 56.4/65

In: 0.110 $\pm$ 0.381 χ^2/NDF : 47.2/53

Out: -0.468 $\pm$ 0.382 χ^2/NDF : 64.4/58

All: -0.178 $\pm$ 0.270 χ^2/NDF : 112.7/112

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.451+/-0.000 χ^2/NDF : 15610174.0/30

Left Out: 1.771+/-0.000 χ^2/NDF :1599621.6/23

Right Out: 1.586+/-0.000 χ^2/NDF : 16062766.8/34

Left In: 1.802+/-0.000 χ^2/NDF :1921298.2/22

Left: 1.787+/-0.000 χ^2/NDF : 3525124.6/46

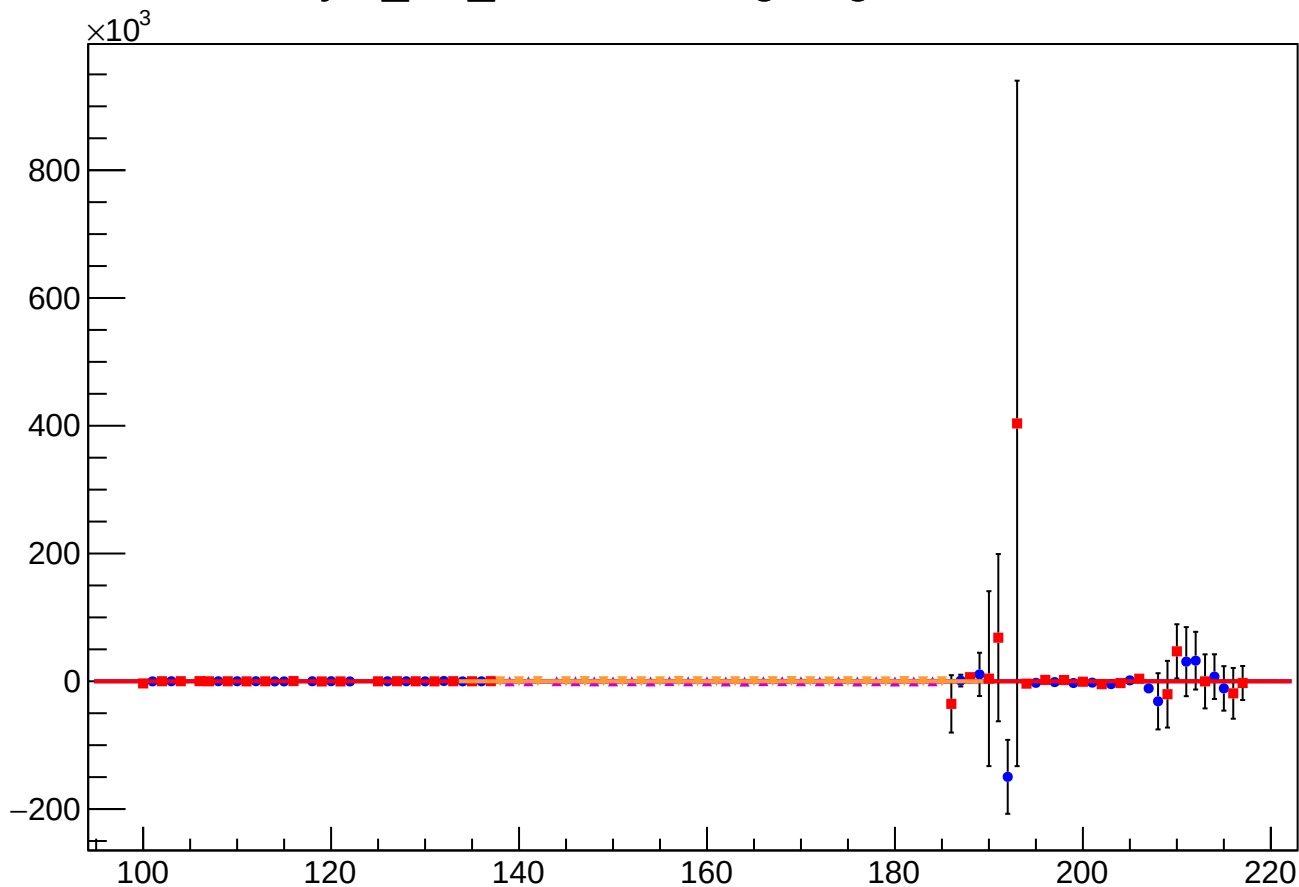
Right: 1.516+/-0.000 χ^2/NDF : 31718845.0/65

In: 1.668+/-0.000 χ^2/NDF :17931977.3/53

Out: 1.706+/-0.000 χ^2/NDF :17769191.0/58

All: 1.687+/-0.000 χ^2/NDF : 35710871.8/112

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.060 ± 36.771 χ^2/NDF : 33.3/30

Left Out: 12.948 ± 26.268 χ^2/NDF : 35.7/23

Right Out: 1.599 ± 36.757 χ^2/NDF : 20.5/34

Left In: 25.312 ± 26.351 χ^2/NDF : 35.7/22

Left: 19.110 ± 18.604 χ^2/NDF : 71.6/46

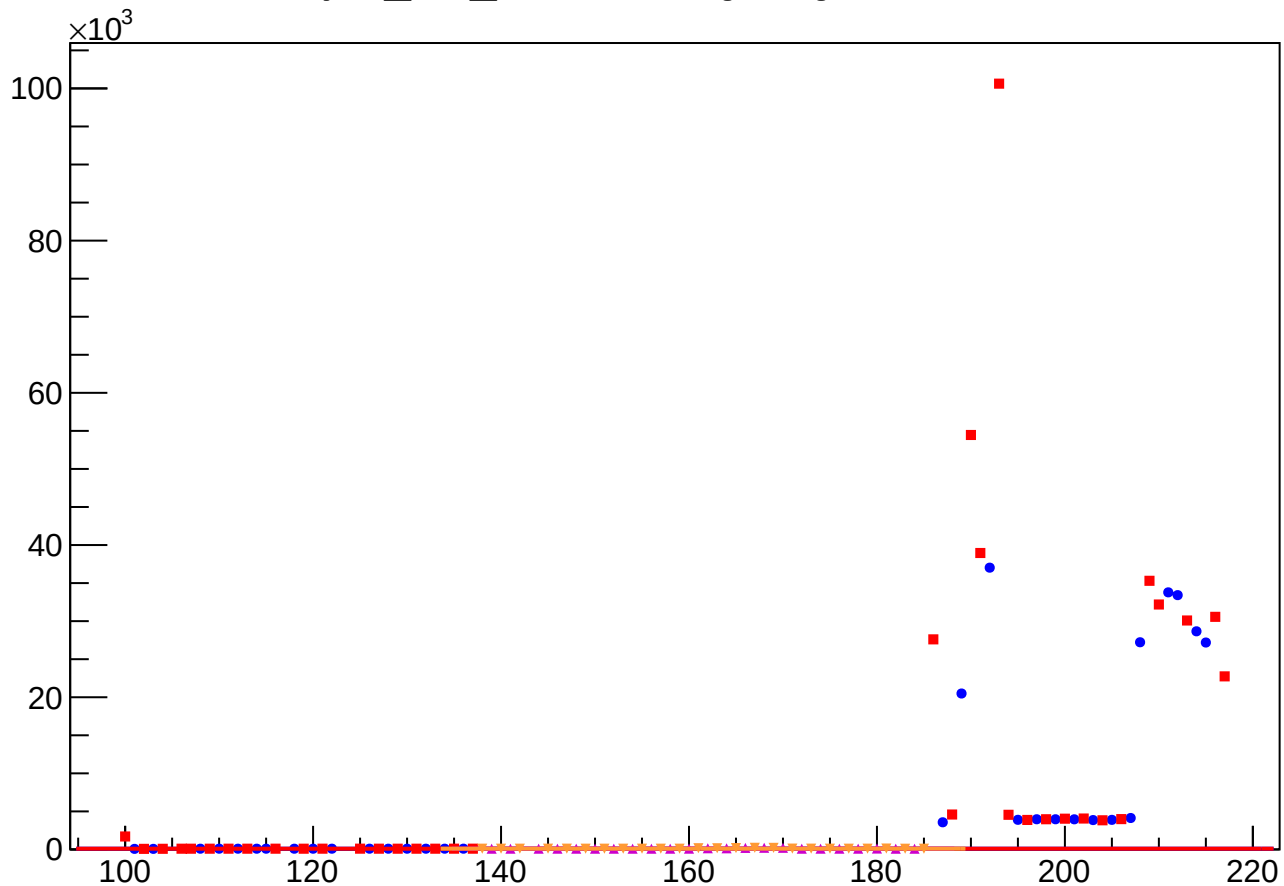
Right: -0.230 ± 25.996 χ^2/NDF : 53.7/65

In: 16.024 ± 21.419 χ^2/NDF : 69.3/53

Out: 9.111 ± 21.372 χ^2/NDF : 56.3/58

All: 12.560 ± 15.129 χ^2/NDF : 125.7/112

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.179 $\pm$ 0.026 χ^2/NDF : 18005878.2/30

Left Out: 108.090 $\pm$ 0.019 χ^2/NDF : 1436368.7/23

Right Out: 98.371 $\pm$ 0.026 χ^2/NDF : 18175773.1/34

Left In: 107.703 $\pm$ 0.019 χ^2/NDF : 1492338.5/22

Left: 107.897 $\pm$ 0.013 χ^2/NDF : 2928923.7/46

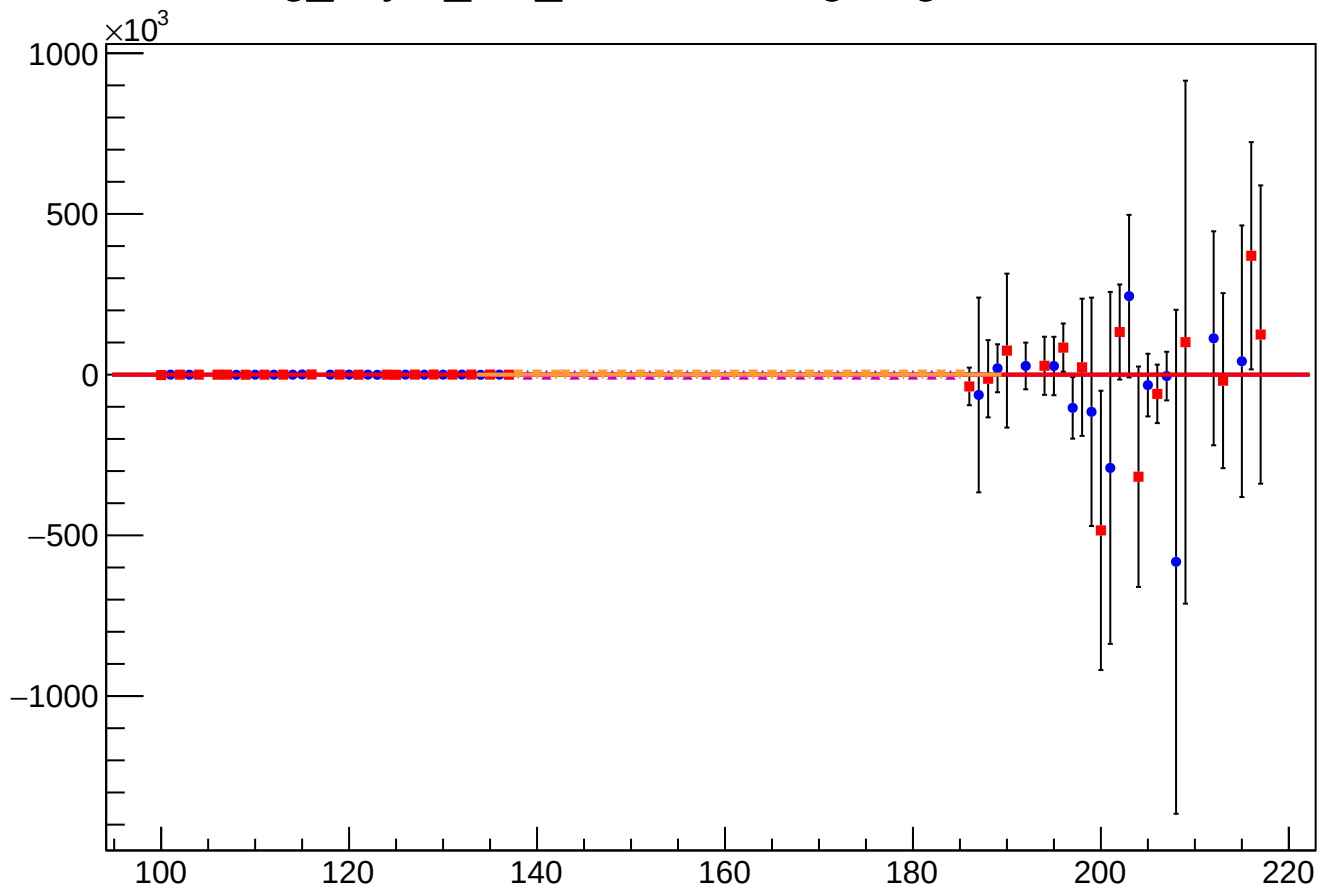
Right: 97.276 $\pm$ 0.018 χ^2/NDF : 36185207.7/65

In: 103.793 $\pm$ 0.015 χ^2/NDF : 19628003.7/53

Out: 104.805 $\pm$ 0.015 χ^2/NDF : 19704695.6/58

All: 104.300 $\pm$ 0.011 χ^2/NDF : 39334935.8/11

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.802 ± 46.841 $\chi^2/\text{NDF}: 18.0/29$

Left Out: -12.829 ± 32.063 $\chi^2/\text{NDF}: 12.0/24$

Right Out: 53.397 ± 47.775 $\chi^2/\text{NDF}: 21.8/32$

Left In: -65.335 ± 32.944 $\chi^2/\text{NDF}: 19.3/22$

Left: -38.371 ± 22.977 $\chi^2/\text{NDF}: 32.6/47$

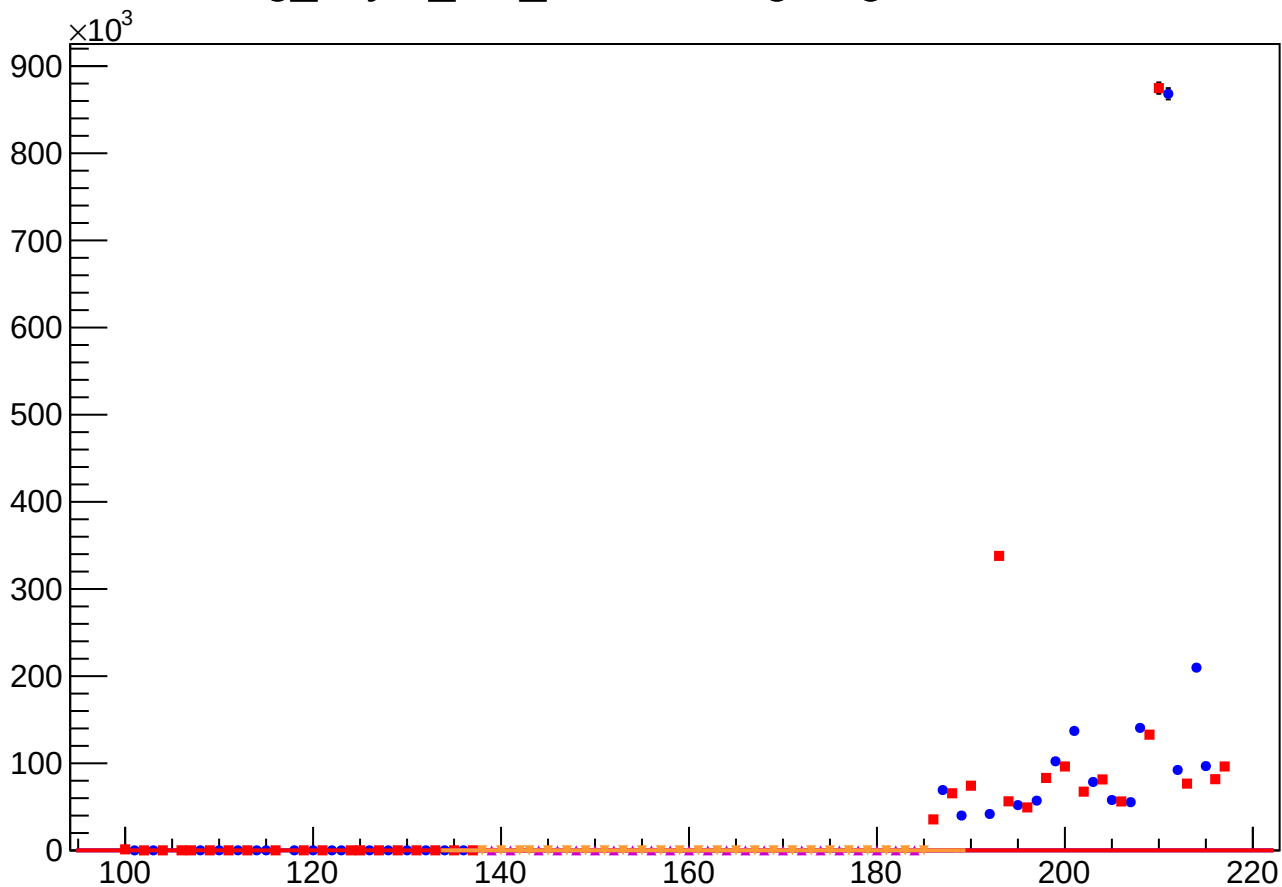
Right: 12.506 ± 33.447 $\chi^2/\text{NDF}: 41.3/62$

In: -52.582 ± 26.947 $\chi^2/\text{NDF}: 37.8/52$

Out: 7.737 ± 26.623 $\chi^2/\text{NDF}: 35.1/57$

All: -22.059 ± 18.939 $\chi^2/\text{NDF}: 75.4/110$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.882 $\pm$ 0.033 χ^2 /NDF: 6897176.9/31

Left Out: 137.856 $\pm$ 0.023 χ^2 /NDF:443.5/24

Right Out: 124.845 $\pm$ 0.034 χ^2 /NDF: 6773979.3/34

Left In: 137.804 $\pm$ 0.023 χ^2 /NDF:460.3/22

Left: 137.831 $\pm$ 0.016 χ^2 /NDF: 906.3/47

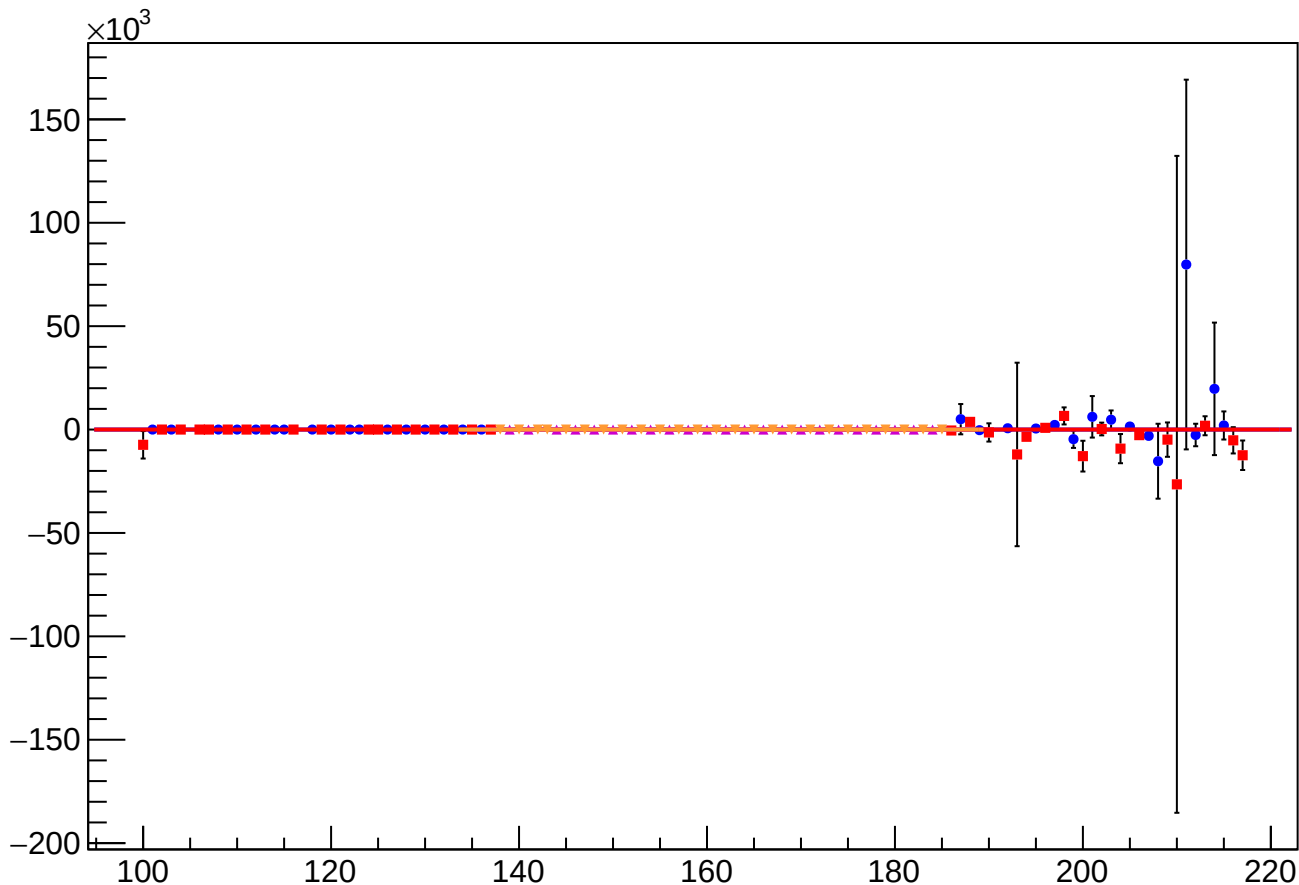
Right: 121.295 $\pm$ 0.024 χ^2 /NDF: 13692816.7/66

In: 131.211 $\pm$ 0.019 χ^2 /NDF:7139700.6/54

Out: 133.816 $\pm$ 0.019 χ^2 /NDF:6876709.5/59

All: 132.529 $\pm$ 0.013 χ^2 /NDF: 14025866.3/111

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 25.5/31

Left Out: 0.490 ± 0.572 χ^2/NDF : 29.0/24

Right Out: -0.639 ± 0.852 χ^2/NDF : 36.4/34

Left In: 0.290 ± 0.579 χ^2/NDF : 20.7/22

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

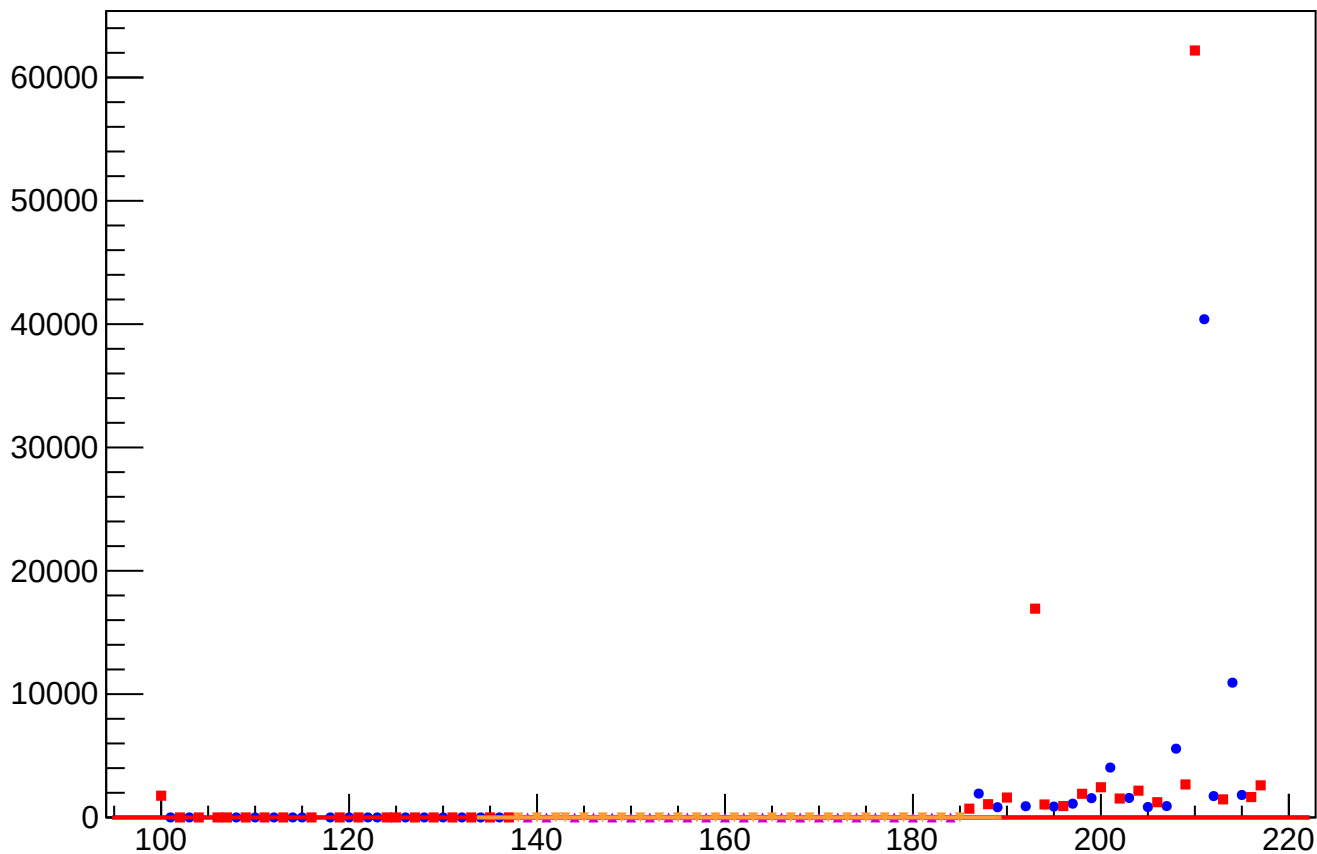
Right: -0.681 ± 0.587 χ^2/NDF : 61.9/66

In: -0.052 ± 0.471 χ^2/NDF : 47.2/54

Out: 0.139 ± 0.475 χ^2/NDF : 66.6/59

All: 0.043 ± 0.334 χ^2/NDF : 113.9/114

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 $\pm$ 0.001 χ^2/NDF : 6807085.5/31

Left Out: 2.262 $\pm$ 0.000 χ^2/NDF : 374973.2/24

Right Out: 2.065 $\pm$ 0.001 χ^2/NDF : 7191430.3/34

Left In: 2.193 $\pm$ 0.000 χ^2/NDF : 510890.7/22

Left: 2.228 $\pm$ 0.000 χ^2/NDF : 900243.0/47

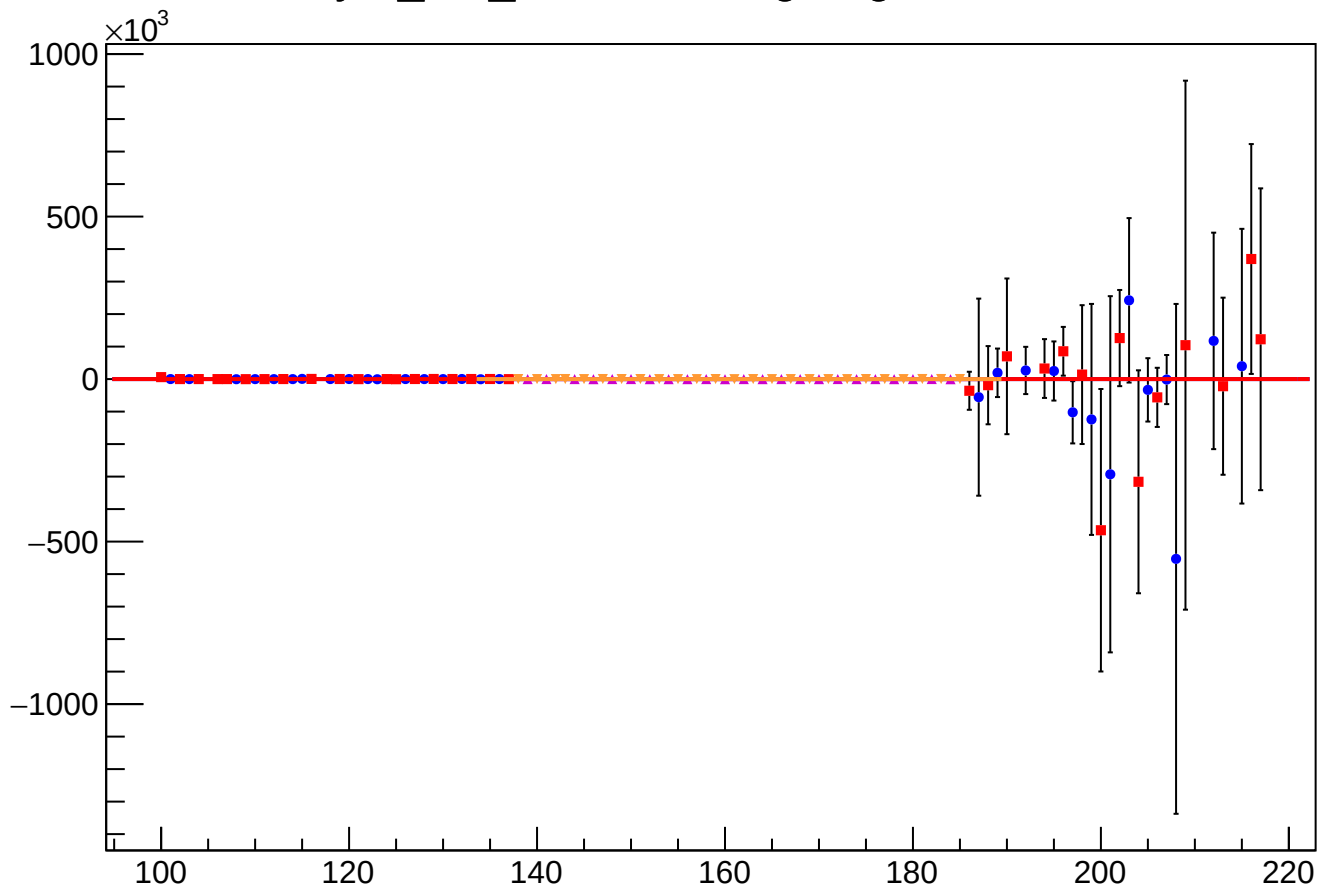
Right: 1.961 $\pm$ 0.000 χ^2/NDF : 14055414.5/66

In: 2.083 $\pm$ 0.000 χ^2/NDF : 7532260.7/54

Out: 2.201 $\pm$ 0.000 χ^2/NDF : 7639754.8/59

All: 2.141 $\pm$ 0.000 χ^2/NDF : 15234400.4/114

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.063 $\pm$ 46.854 χ^2 /NDF: 18.0/29

Left Out: -13.383 $\pm$ 32.072 χ^2 /NDF:11.8/24

Right Out: 54.299 $\pm$ 47.789 χ^2 /NDF: 22.3/32

Left In: -65.231 $\pm$ 32.953 χ^2 /NDF:19.4/22

Left: -38.605 $\pm$ 22.983 χ^2 /NDF: 32.4/47

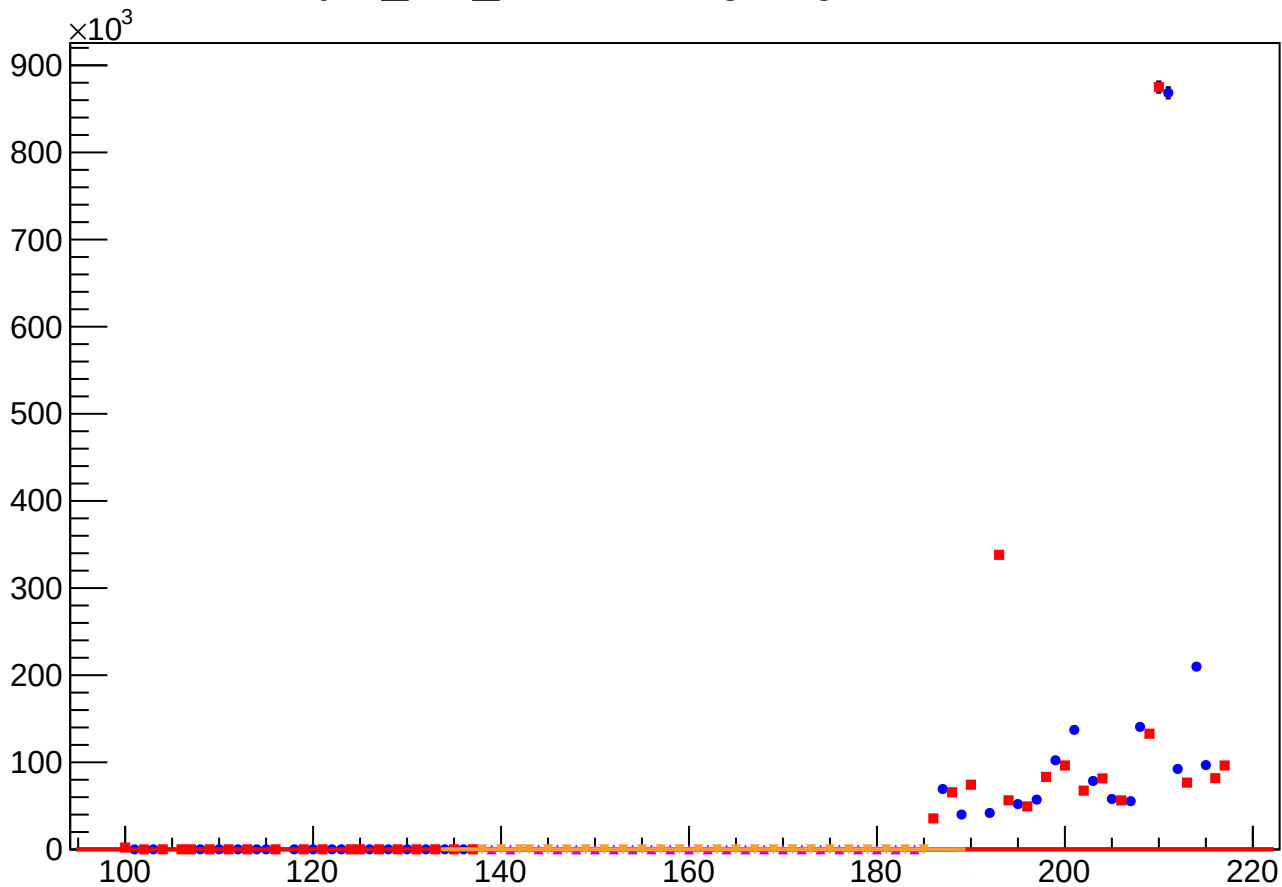
Right: 13.834 $\pm$ 33.456 χ^2 /NDF: 41.7/62

In: -51.938 $\pm$ 26.954 χ^2 /NDF:37.9/52

Out: 7.634 $\pm$ 26.631 χ^2 /NDF:35.5/57

All: -21.792 $\pm$ 18.944 χ^2 /NDF: 75.8/110

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.914+/-0.033 χ^2/NDF : 6897318.0/31

Left Out: 137.895+/-0.023 χ^2/NDF :440.9/24

Right Out: 124.834 ± 0.034 χ^2/NDF : 6784651.9/34

Left In: 137.843+/-0.023 χ^2/NDF :457.2/22

Left: 137.870 ± 0.016 $\chi^2/\text{NDF}: 900.6/47$

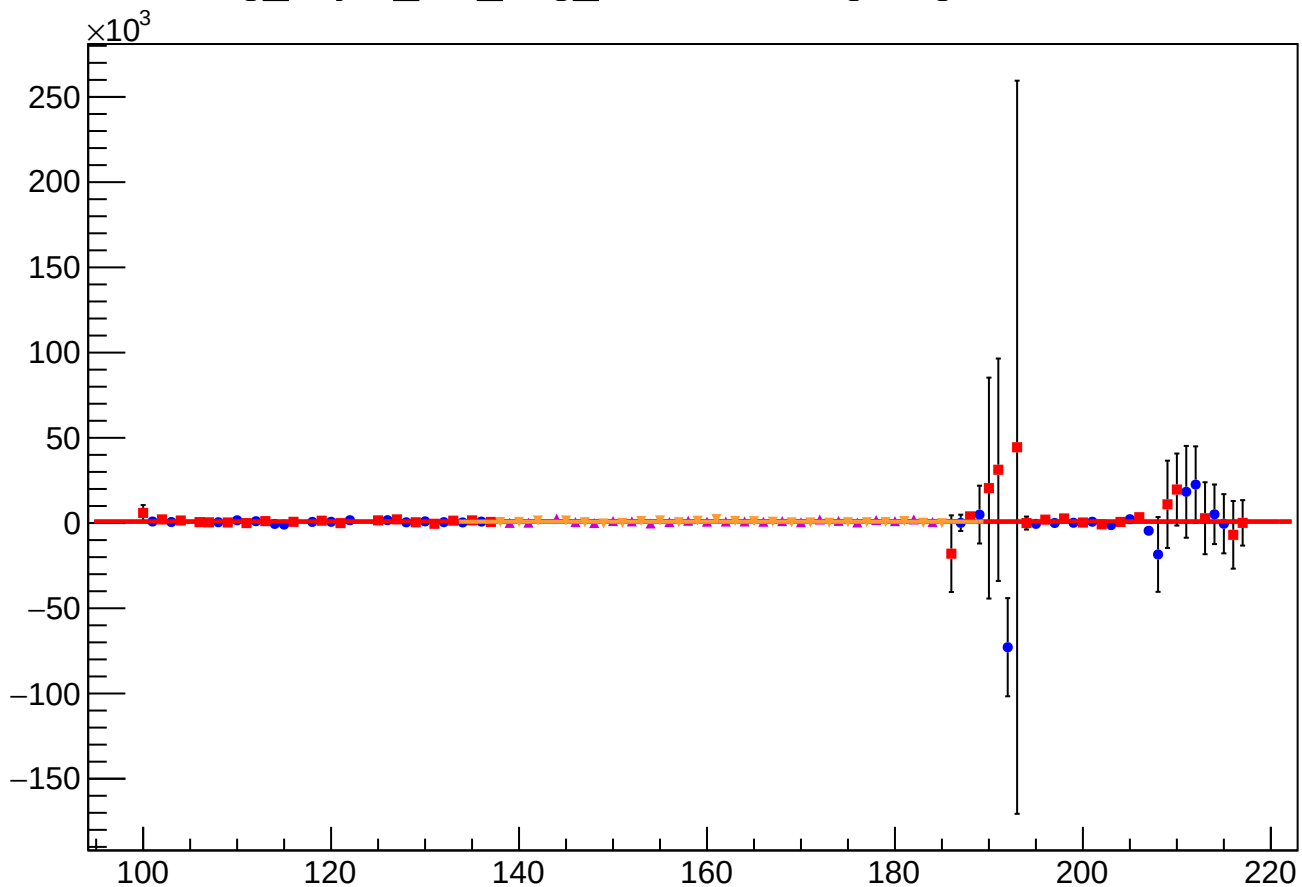
Right: 121.305+/-0.024 χ^2/NDF : 13703352.4/66

In: 131.248+/-0.019 χ^2/NDF : 7139877.1/54

Out: 133.839+/-0.019 χ^2/NDF :6888101.9/59

All: 132.559 ± 0.013 $\chi^2/\text{NDF}: 14037335.0/11$

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 769.284 $\pm$ 209.823 χ^2 /NDF: 21.0/30

Left Out: 784.371 $\pm$ 134.054 χ^2 /NDF: 19.2/23

Right Out: 1038.604 $\pm$ 207.229 χ^2 /NDF: 19.8/34

Left In: 974.402 $\pm$ 134.932 χ^2 /NDF: 27.4/22

Left: 878.766 $\pm$ 95.099 χ^2 /NDF: 47.6/46

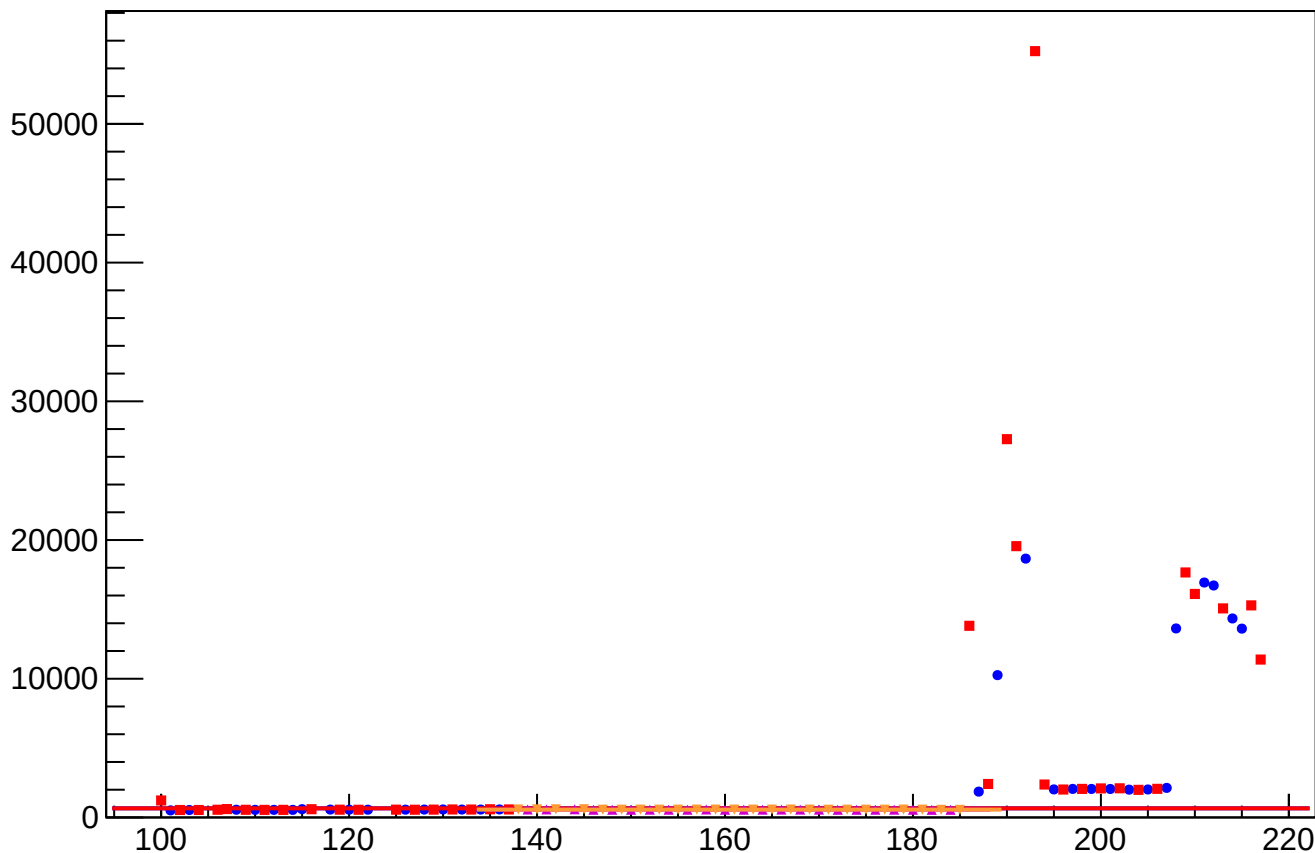
Right: 905.619 $\pm$ 147.442 χ^2 /NDF: 41.7/65

In: 914.393 $\pm$ 113.491 χ^2 /NDF: 49.2/53

Out: 859.373 $\pm$ 112.556 χ^2 /NDF: 40.1/58

All: 886.655 $\pm$ 79.918 χ^2 /NDF: 89.3/112

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 658.083+/-0.148 χ^2/NDF : 12036492.8/30

Left Out: 564.143+/-0.095 χ^2/NDF :9594.1/23

Right Out: 657.225+/-0.147 χ^2/NDF : 12461363.9/34

Left In: 564.383+/-0.095 χ^2/NDF :9209.5/22

Left: 564.262+/-0.067 χ^2/NDF : 18806.8/46

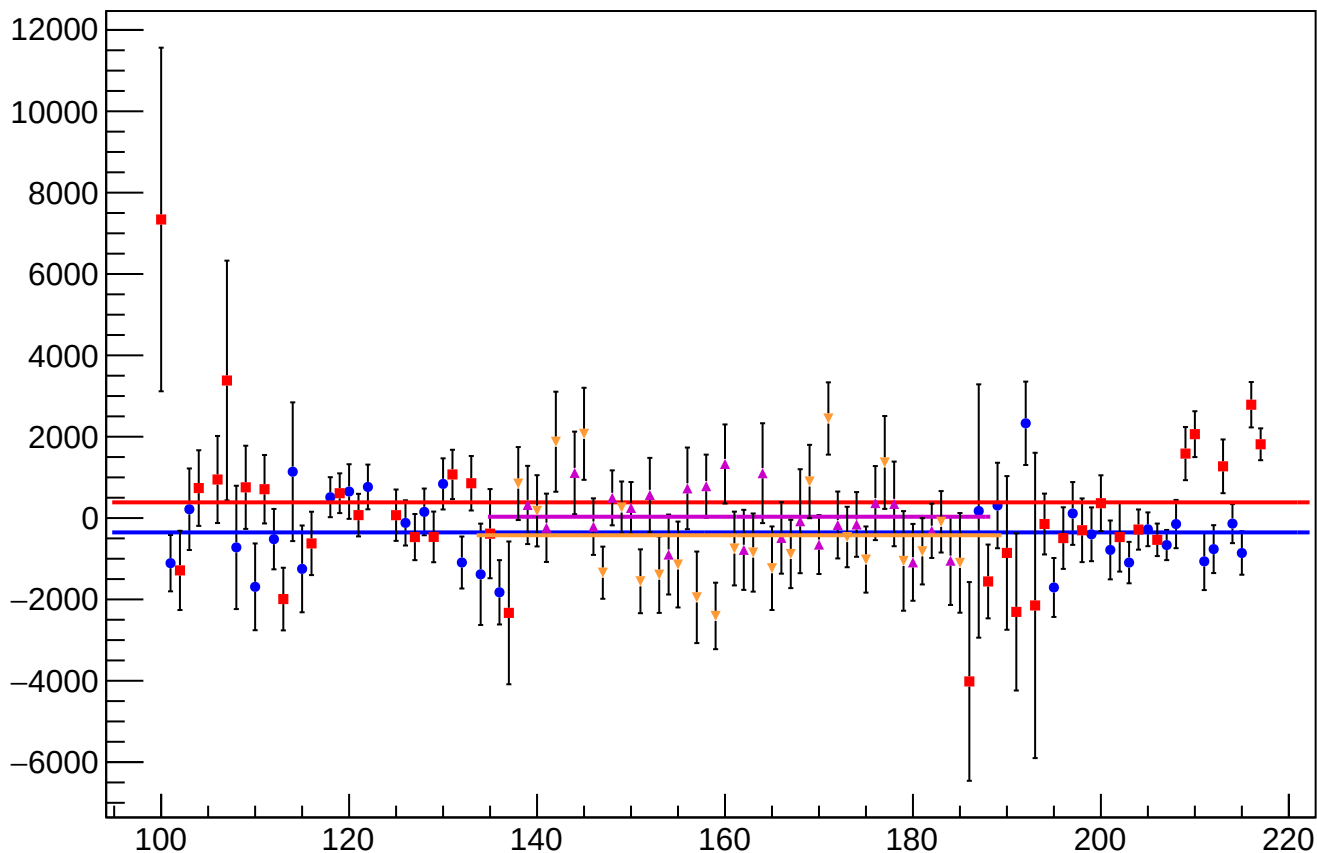
Right: 657.649+/-0.104 χ^2/NDF : 24497873.7/65

In: 591.796+/-0.080 χ^2/NDF :12327862.3/53

Out: 591.603+/-0.080 χ^2/NDF :12755429.0/58

All: 591.699+/-0.057 χ^2/NDF : 25083294.2/111

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -352.597 ± 117.171 χ^2/NDF : 41.3/30

Left Out: -422.681 ± 180.610 χ^2/NDF : 43.2/23

Right Out: 386.284 ± 119.838 χ^2/NDF : 95.5/34

Left In: 32.411 ± 179.430 χ^2/NDF : 12.2/22

Left: -193.644 ± 127.291 χ^2/NDF : 58.6/46

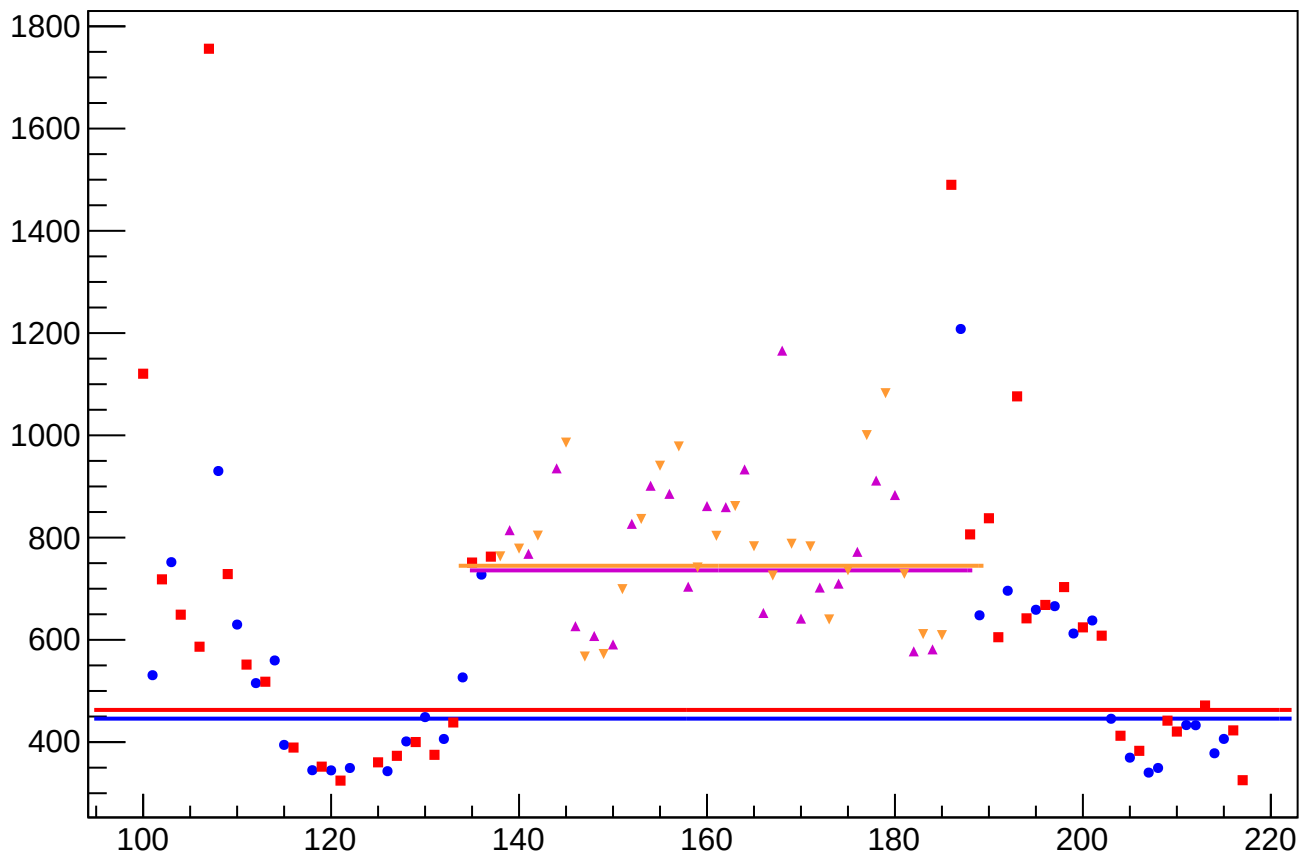
Right: 8.532 ± 83.780 χ^2/NDF : 156.2/65

In: -237.498 ± 98.106 χ^2/NDF : 56.7/53

Out: 139.000 ± 99.856 χ^2/NDF : 152.6/58

All: -52.577 ± 69.982 χ^2/NDF : 216.5/112

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 445.891+/-0.083 χ^2/NDF : 2303570.8/30

Left Out: 744.909+/-0.128 χ^2/NDF :1008847.7/23

Right Out: 462.943+/-0.085 χ^2/NDF : 3243920.9/34

Left In: 735.850+/-0.127 χ^2/NDF :1105405.5/22

Left: 740.350+/-0.090 χ^2/NDF : 2116785.5/46

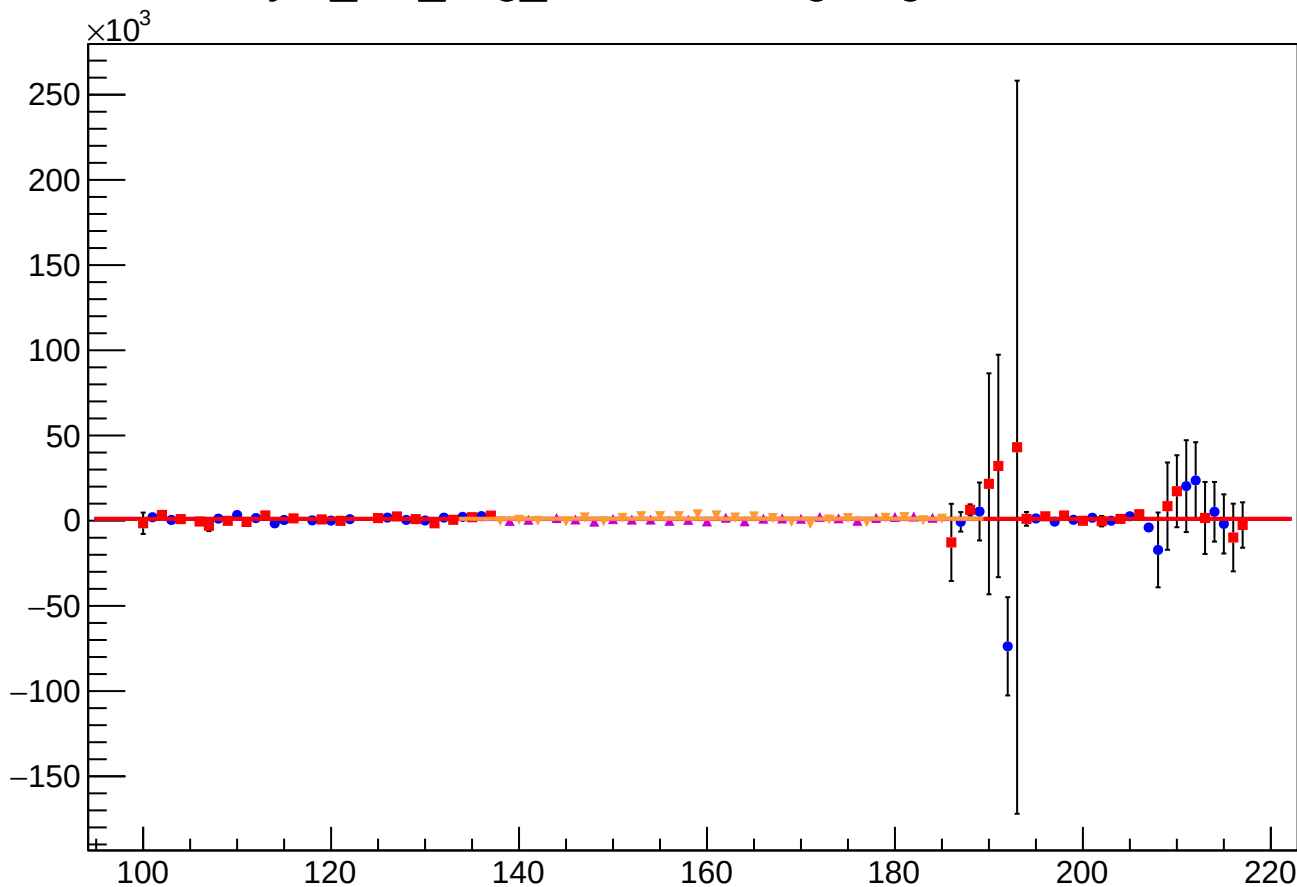
Right: 454.225+/-0.059 χ^2/NDF : 5568193.4/65

In: 532.575+/-0.069 χ^2/NDF :7070474.4/53

Out: 549.134+/-0.071 χ^2/NDF :7637324.7/58

All: 540.708+/-0.049 χ^2/NDF : 14735785.8/11

asym_left_avg_mean vs Slug, Sign Corrected



Left: 1039.600 $\pm$ 161.629 χ^2 /NDF: 54.0/46

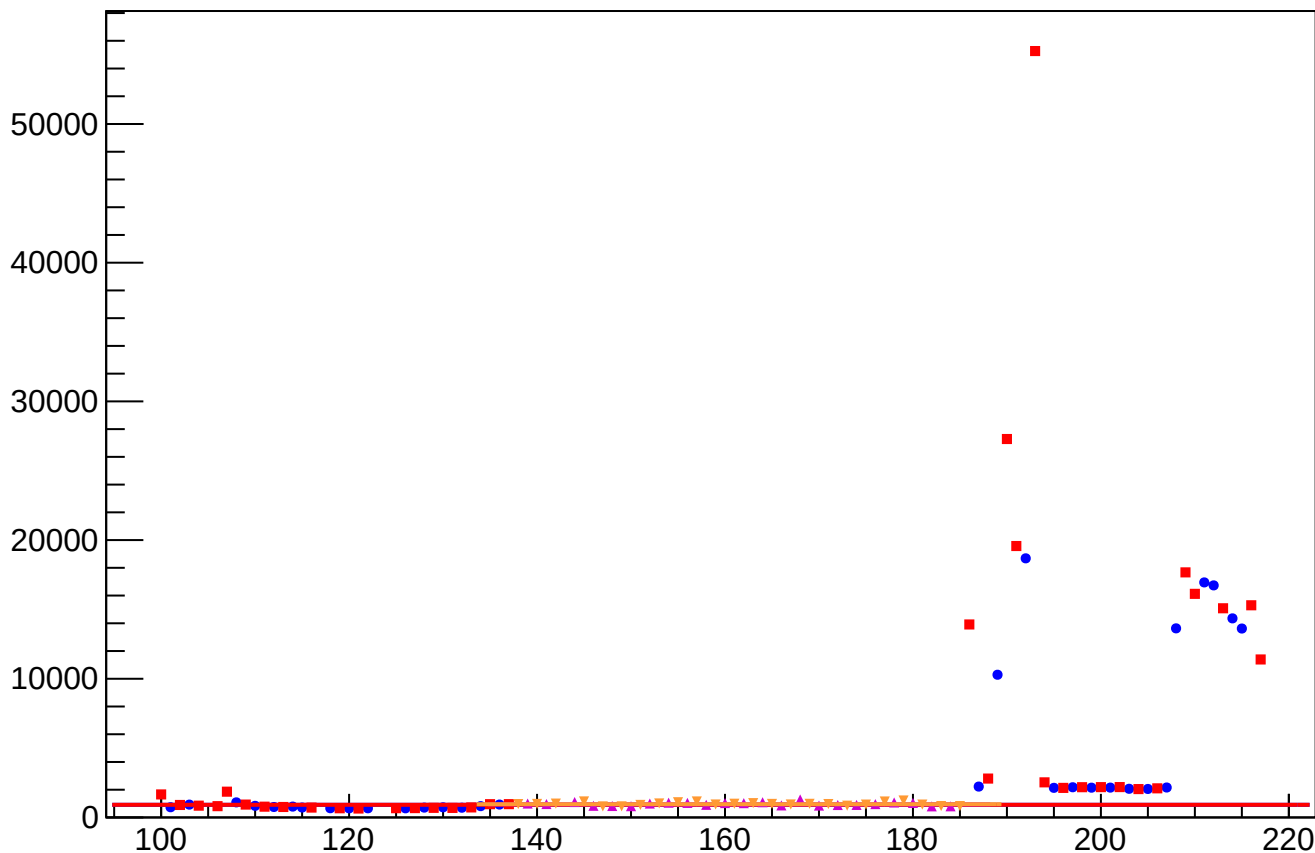
Right: 1076.998 $\pm$ 198.265 χ^2 /NDF: 57.7/65

In: 1002.704 $\pm$ 177.081 χ^2 /NDF: 41.9/53

Out: 1106.458 $\pm$ 177.253 χ^2 /NDF: 69.8/58

All: 1054.531 $\pm$ 125.276 χ^2 /NDF: 111.8/112

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 910.353+/-0.198 χ^2/NDF : 10632158.5/30

Left Out: 954.333+/-0.162 χ^2/NDF : 460147.5/23

Right Out: 912.461+/-0.198 χ^2/NDF : 11427418.2/34

Left In: 946.573+/-0.161 χ^2/NDF : 501366.9/22

Left: 950.444+/-0.114 χ^2/NDF : 962667.1/46

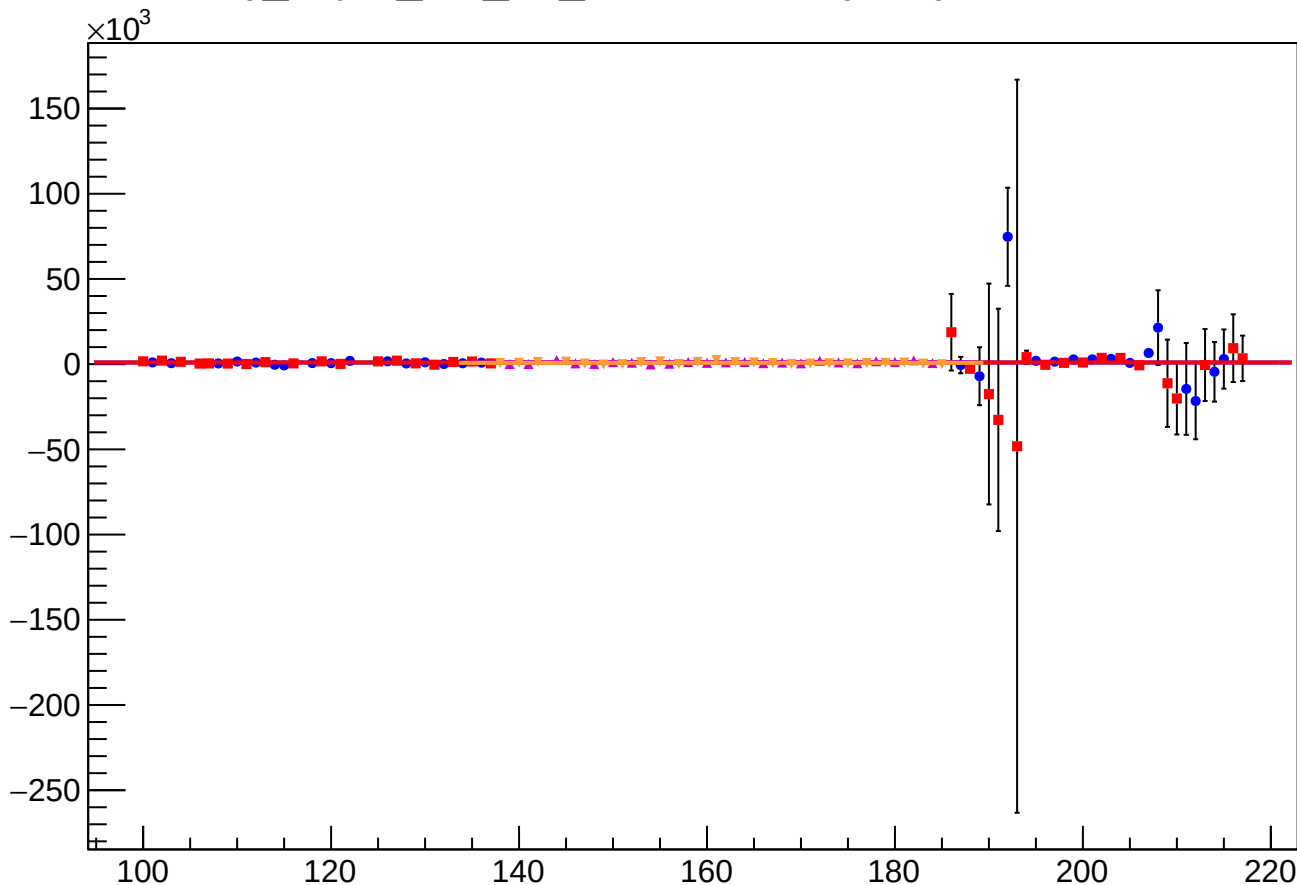
Right: 911.408+/-0.140 χ^2/NDF : 22059633.2/65

In: 932.140+/-0.125 χ^2/NDF : 11153580.7/53

Out: 937.584+/-0.125 χ^2/NDF : 11914351.9/58

All: 934.859+/-0.089 χ^2/NDF : 23068877.1/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 957.088 $\pm$ 209.692 χ^2 /NDF: 23.8/30

Left Out: 757.642 $\pm$ 133.942 χ^2 /NDF:21.0/23

Right Out: 1016.572 $\pm$ 202.618 χ^2 /NDF: 20.3/34

Left In: 958.517 $\pm$ 134.824 χ^2 /NDF:26.8/22

Left: 857.420 $\pm$ 95.022 χ^2 /NDF: 49.0/46

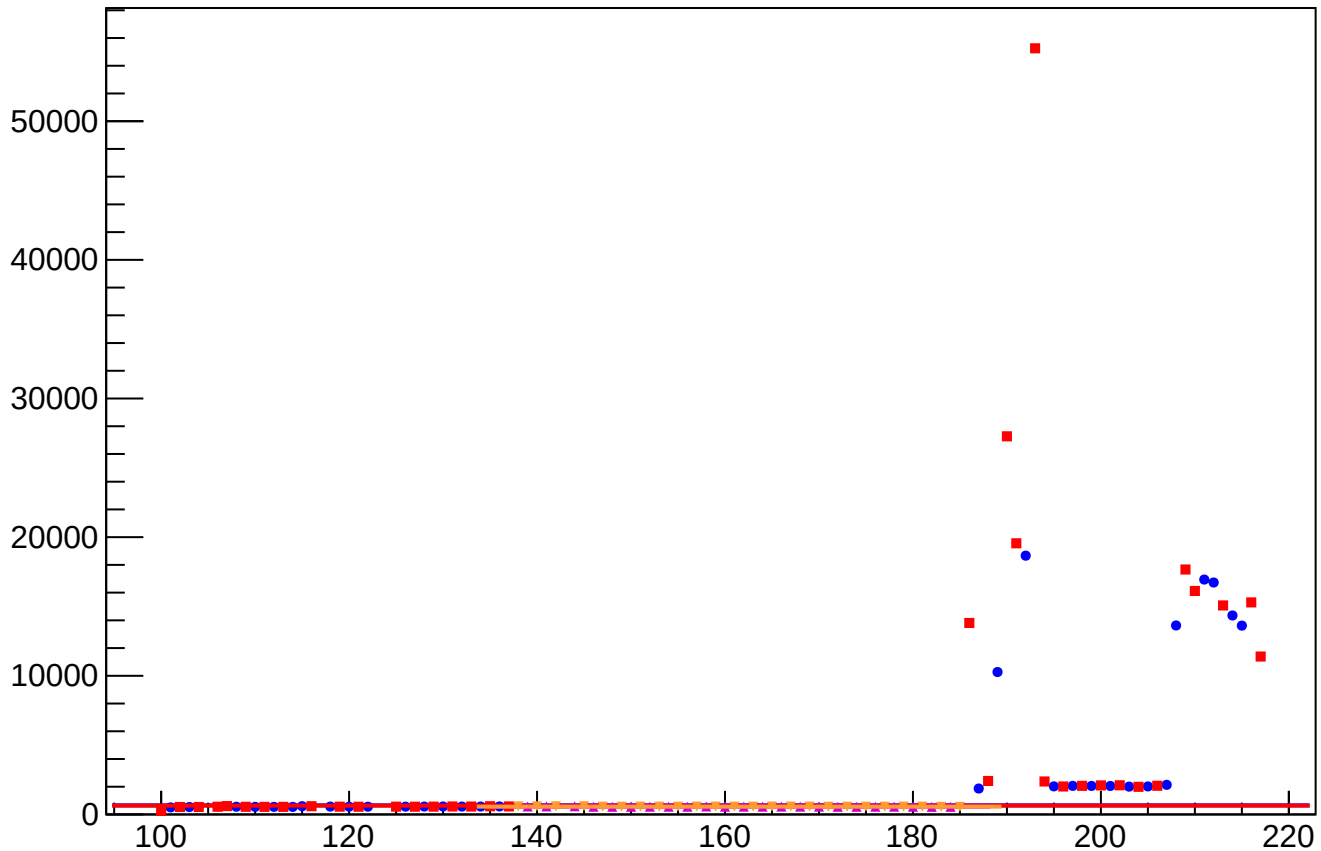
Right: 987.851 $\pm$ 145.709 χ^2 /NDF: 44.1/65

In: 958.099 $\pm$ 113.406 χ^2 /NDF:50.6/53

Out: 836.384 $\pm$ 111.735 χ^2 /NDF:42.4/58

All: 896.338 $\pm$ 79.593 χ^2 /NDF: 93.6/112

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 657.450+/-0.148 χ^2/NDF : 12050538.7/30

Left Out: 563.675+/-0.095 χ^2/NDF :9542.9/23

Right Out: 637.545+/-0.143 χ^2/NDF : 12778330.9/34

Left In: 563.934+/-0.095 χ^2/NDF :9204.6/22

Left: 563.803+/-0.067 χ^2/NDF : 18751.3/46

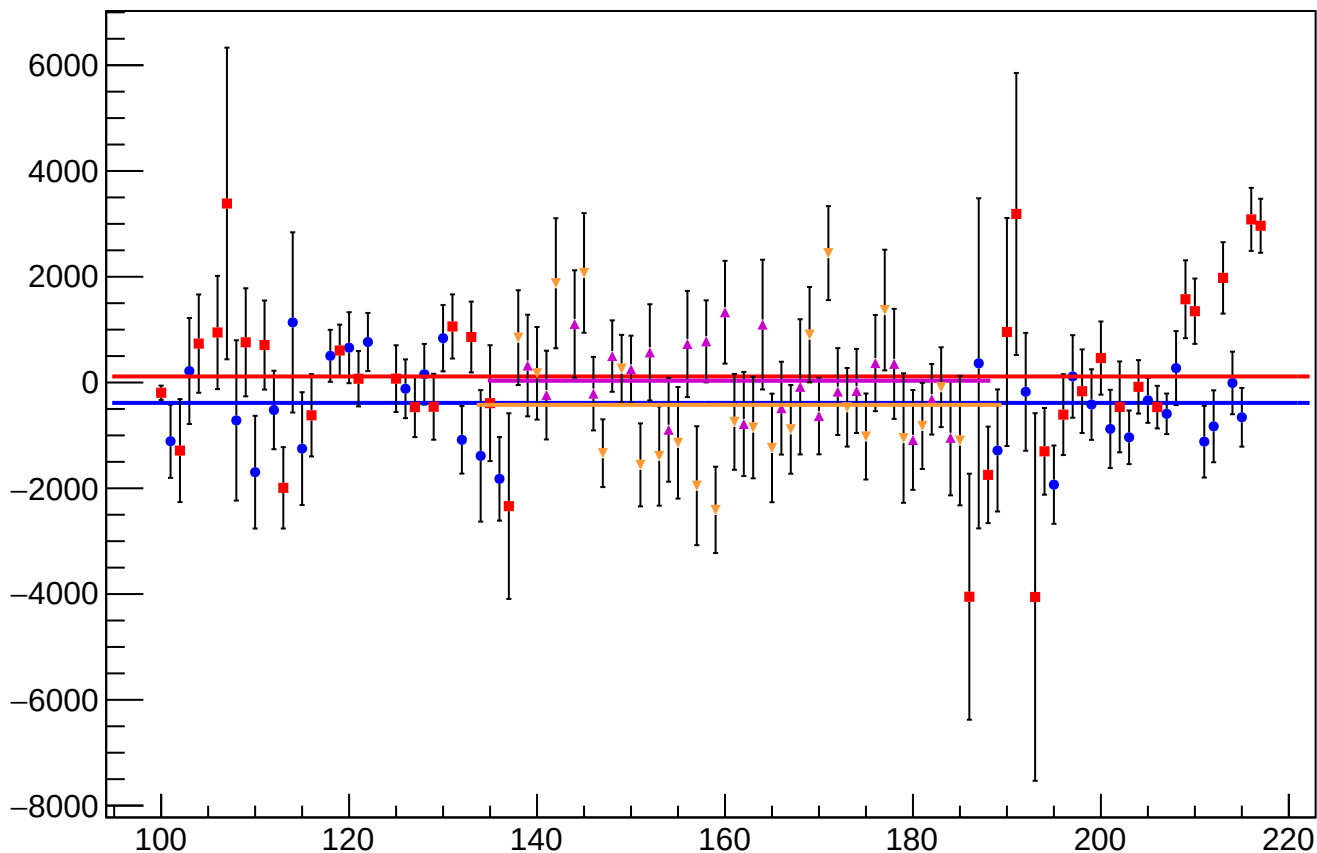
Right: 647.156+/-0.103 χ^2/NDF : 24838189.1/65

In: 591.286+/-0.080 χ^2/NDF :12341172.7/53

Out: 586.139+/-0.079 χ^2/NDF :12972869.3/58

All: 588.674+/-0.056 χ^2/NDF : 25316132.6/11

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -385.065 ± 120.801 χ^2/NDF : 35.6/30

Left Out: -422.324 ± 180.531 χ^2/NDF : 43.3/23

Right Out: 114.644 ± 91.509 χ^2/NDF : 116.2/34

Left In: 33.325 ± 179.355 χ^2/NDF : 12.1/22

Left: -193.010 ± 127.237 χ^2/NDF : 58.6/46

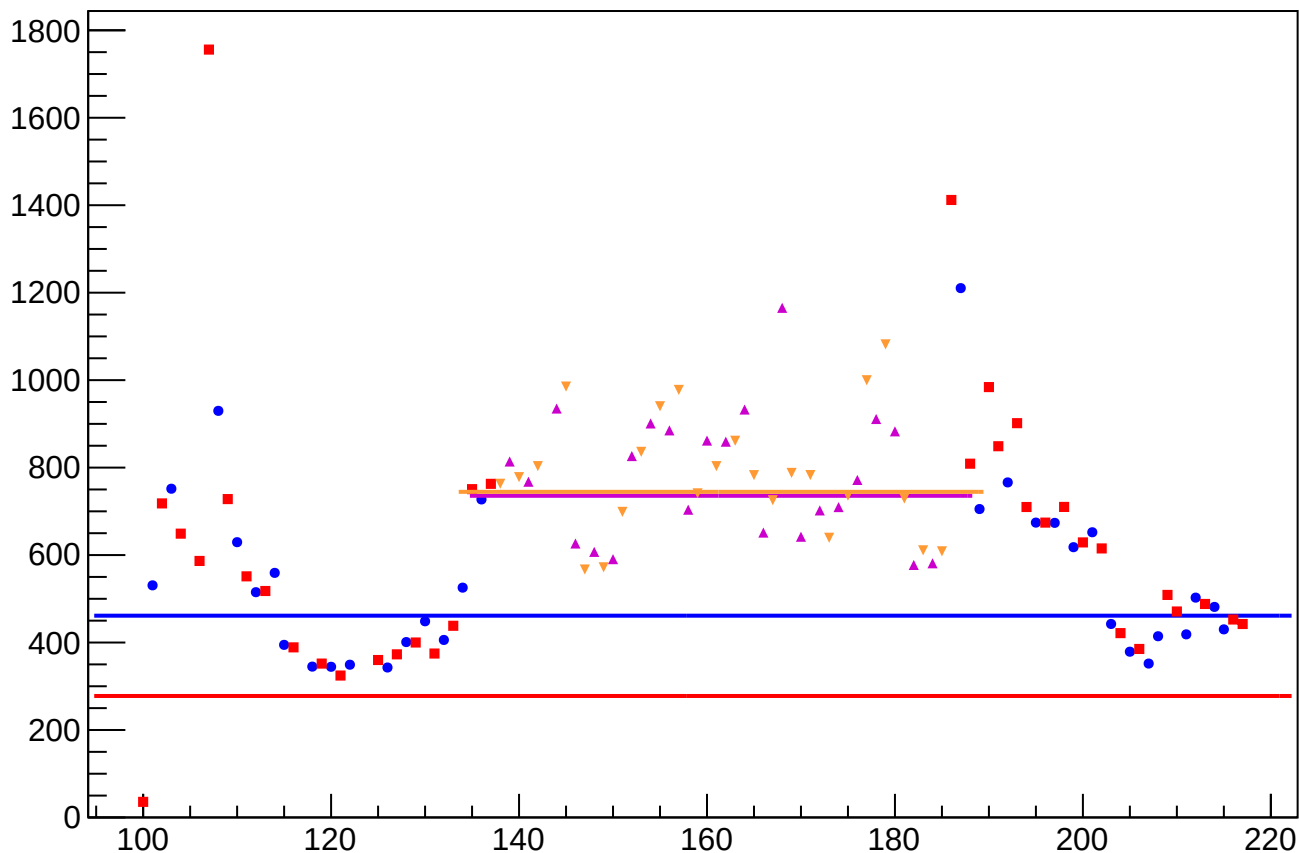
Right: -67.553 ± 72.943 χ^2/NDF : 162.8/65

In: -254.496 ± 100.194 χ^2/NDF : 51.5/53

Out: 4.881 ± 81.622 χ^2/NDF : 166.6/58

All: -98.586 ± 63.282 χ^2/NDF : 222.1/112

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 461.399 $\pm$ 0.085 χ^2 /NDF: 2254392.6/30

Left Out: 744.597 $\pm$ 0.128 χ^2 /NDF:1009604.0/23

Right Out: 277.783 $\pm$ 0.065 χ^2 /NDF: 14899457.9/34

Left In: 735.543 $\pm$ 0.127 χ^2 /NDF:1105222.3/22

Left: 740.040 $\pm$ 0.090 χ^2 /NDF: 2117358.1/46

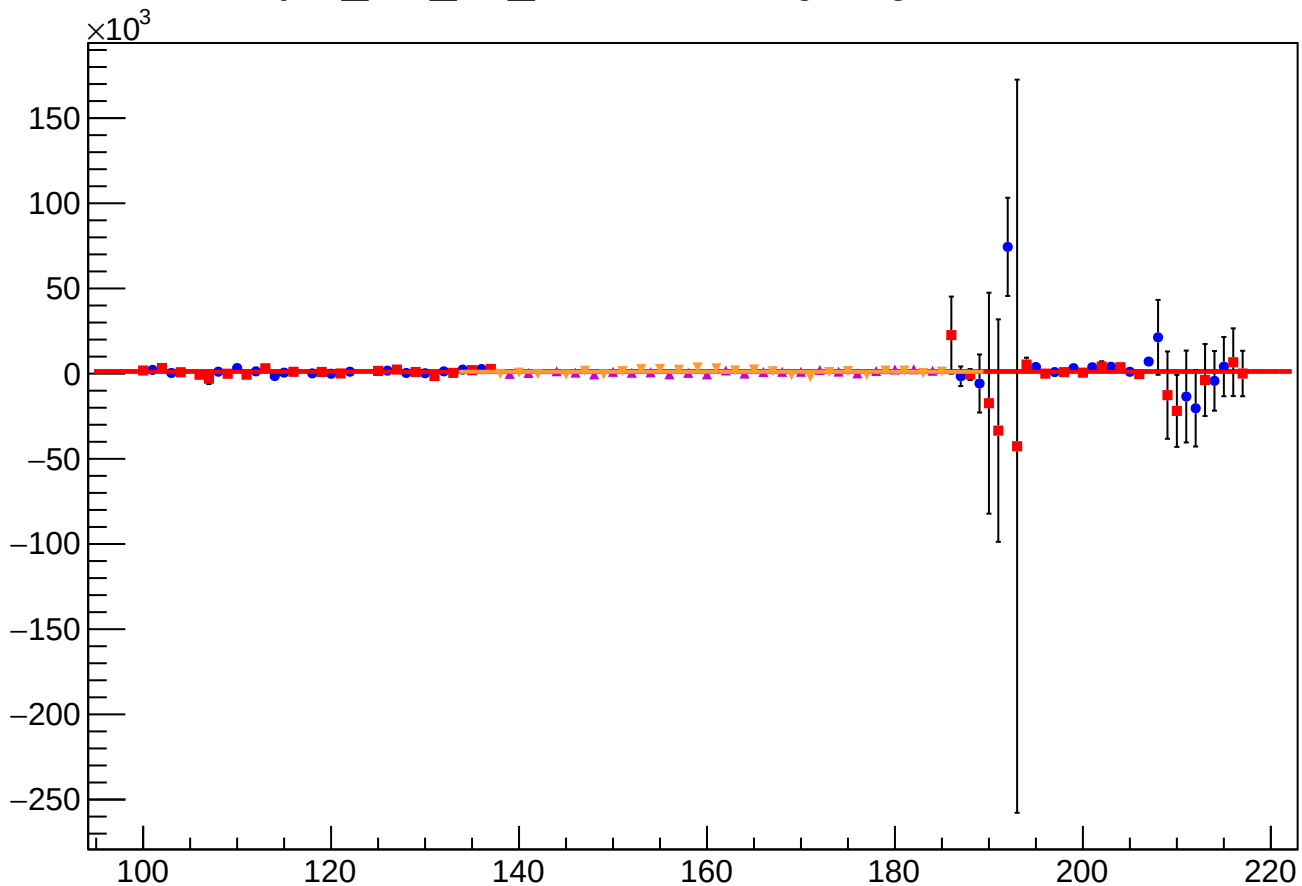
Right: 344.730 $\pm$ 0.052 χ^2 /NDF: 20089815.3/65

In: 546.952 $\pm$ 0.071 χ^2 /NDF:6574032.1/53

Out: 373.205 $\pm$ 0.058 χ^2 /NDF:26548063.1/58

All: 442.514 $\pm$ 0.045 χ^2 /NDF: 36737185.6/11

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1406.815 $\pm$ 280.422 χ^2 /NDF: 31.1/30

Left Out: 1105.144 $\pm$ 228.700 χ^2 /NDF:38.3/23

Right Out: 1070.173 $\pm$ 269.375 χ^2 /NDF: 29.6/34

Left In: 926.281 $\pm$ 228.196 χ^2 /NDF:15.1/22

Left: 1015.515 $\pm$ 161.537 χ^2 /NDF: 53.7/46

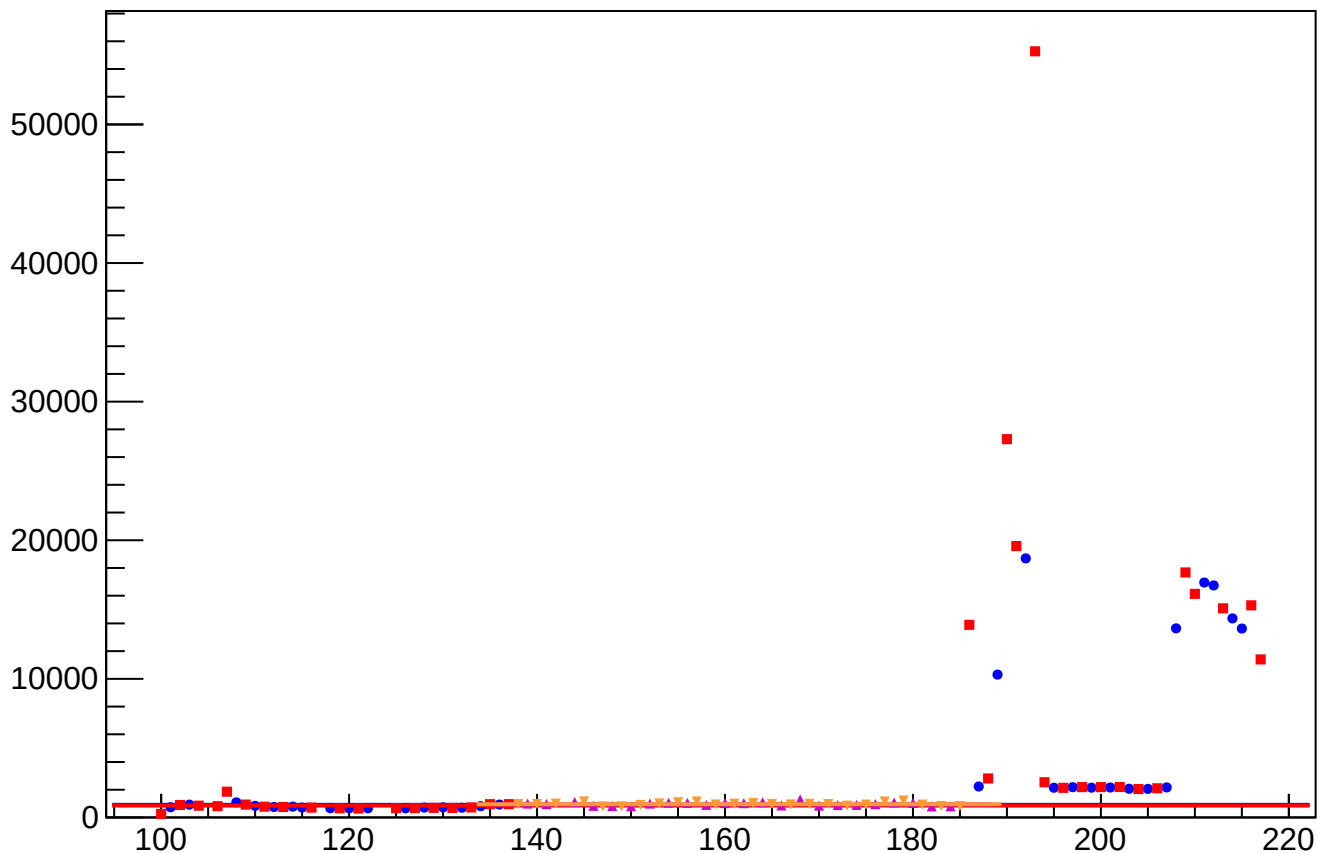
Right: 1231.732 $\pm$ 194.265 χ^2 /NDF: 61.4/65

In: 1117.721 $\pm$ 176.997 χ^2 /NDF:48.0/53

Out: 1090.496 $\pm$ 174.341 χ^2 /NDF:67.9/58

All: 1103.902 $\pm$ 124.206 χ^2 /NDF: 115.9/112

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 909.604+/-0.198 χ^2/NDF : 10653044.7/30

Left Out: 953.781+/-0.162 χ^2/NDF : 460211.0/23

Right Out: 859.731+/-0.190 χ^2/NDF : 12257889.0/34

Left In: 946.041+/-0.161 χ^2/NDF : 501442.7/22

Left: 949.902+/-0.114 χ^2/NDF : 962801.6/46

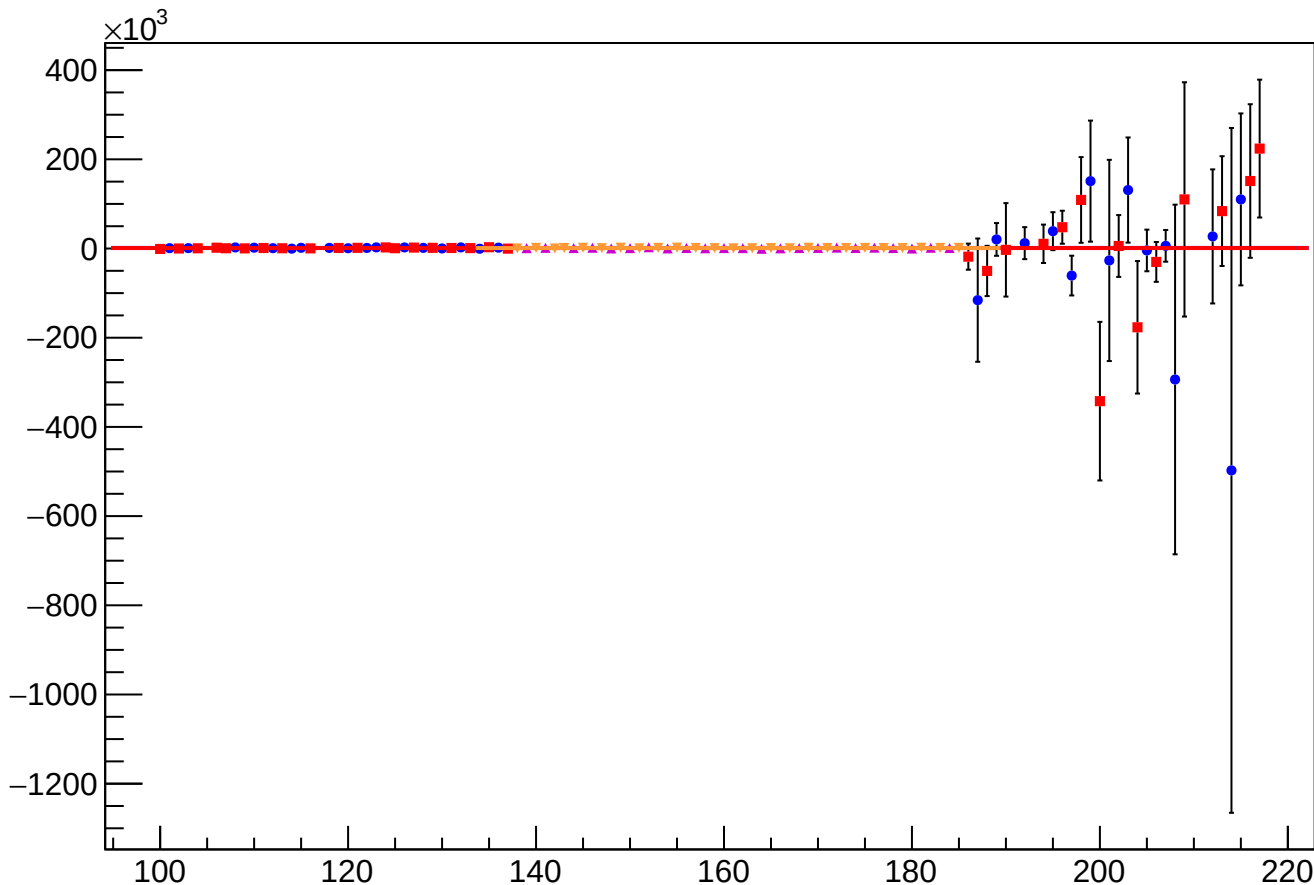
Right: 883.666+/-0.137 χ^2/NDF : 22943835.2/65

In: 931.525+/-0.125 χ^2/NDF : 11174801.7/53

Out: 914.385+/-0.123 χ^2/NDF : 12859778.8/58

All: 922.826+/-0.088 χ^2/NDF : 24044099.0/112

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.256 $\pm$ 218.579 χ^2/NDF : 20.4/30

Left Out: 1073.626 $\pm$ 129.690 χ^2/NDF : 15.1/24

Right Out: 1040.494 $\pm$ 212.061 χ^2/NDF : 26.8/32

Left In: 1123.857 $\pm$ 133.163 χ^2/NDF : 30.0/22

Left: 1098.077 $\pm$ 92.908 χ^2/NDF : 45.2/47

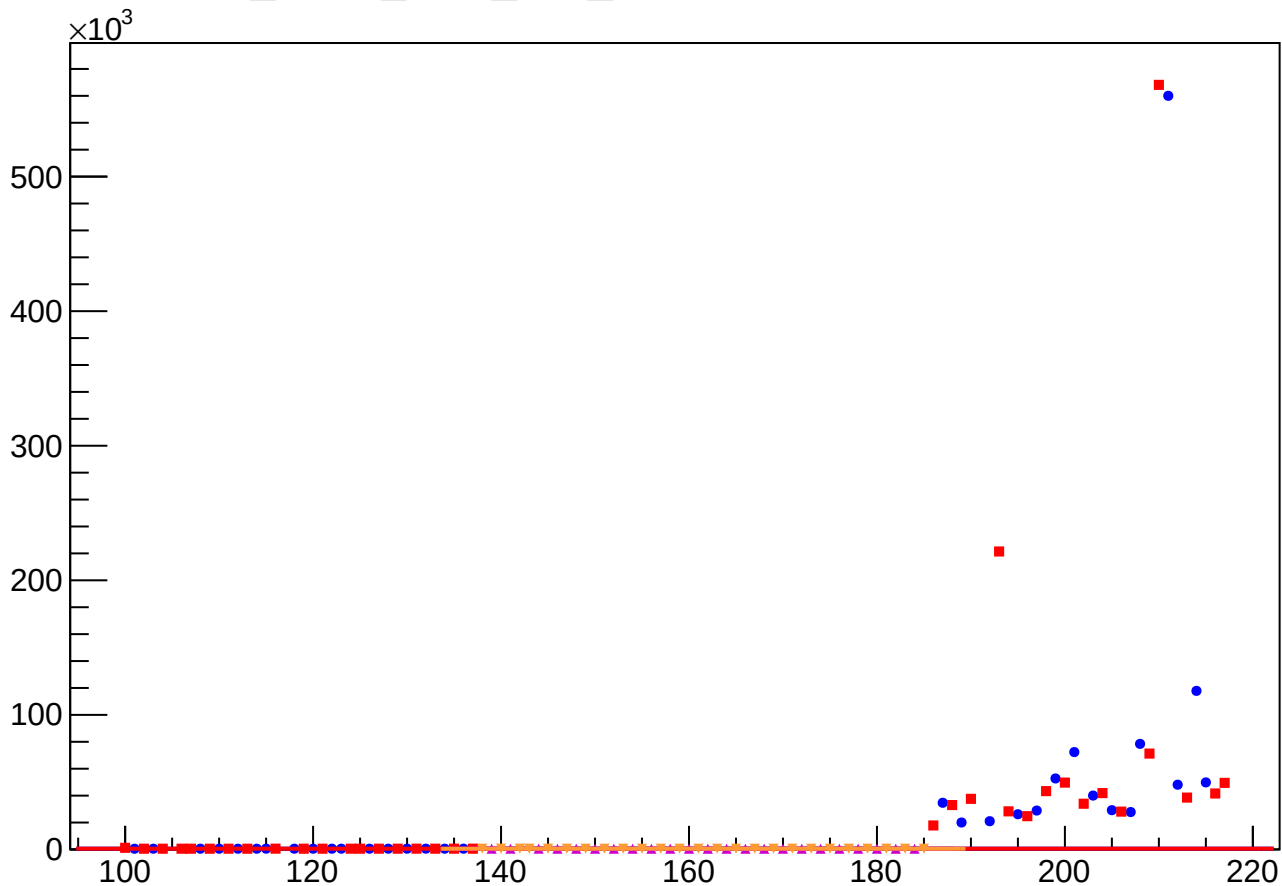
Right: 1178.566 $\pm$ 152.202 χ^2/NDF : 48.0/63

In: 1178.373 $\pm$ 113.721 χ^2/NDF : 51.0/53

Out: 1064.607 $\pm$ 110.639 χ^2/NDF : 41.9/57

All: 1119.927 $\pm$ 79.301 χ^2/NDF : 93.5/111

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.709 $\pm$ 0.155 χ^2 /NDF: 6261848.9/31

Left Out: 557.534 $\pm$ 0.092 χ^2 /NDF: 14752.8/24

Right Out: 570.027 $\pm$ 0.150 χ^2 /NDF: 6257377.4/34

Left In: 556.969 $\pm$ 0.094 χ^2 /NDF: 11209.7/22

Left: 557.259 $\pm$ 0.066 χ^2 /NDF: 25980.9/47

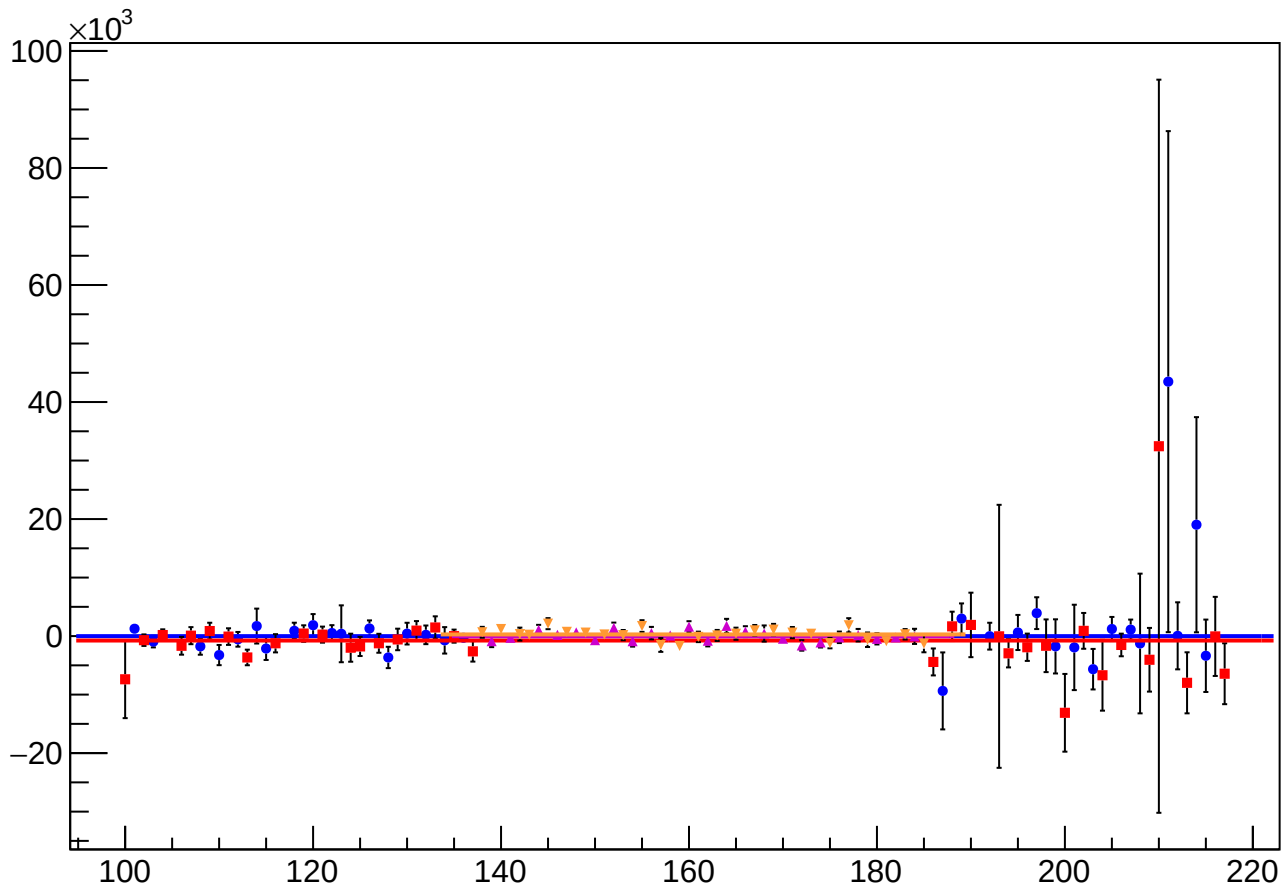
Right: 569.388 $\pm$ 0.108 χ^2 /NDF: 12519263.8/66

In: 560.147 $\pm$ 0.080 χ^2 /NDF: 6277266.2/54

Out: 560.935 $\pm$ 0.078 χ^2 /NDF: 6277182.0/59

All: 560.552 $\pm$ 0.056 χ^2 /NDF: 12554497.5/11

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -8.974 ± 306.015 χ^2/NDF : 28.7/31

Left Out: 281.875 ± 180.423 χ^2/NDF : 26.7/24

Right Out: -757.987 ± 310.673 χ^2/NDF : 28.4/34

Left In: -8.211 ± 183.382 χ^2/NDF : 20.2/22

Left: 139.190 ± 128.612 χ^2/NDF : 48.2/47

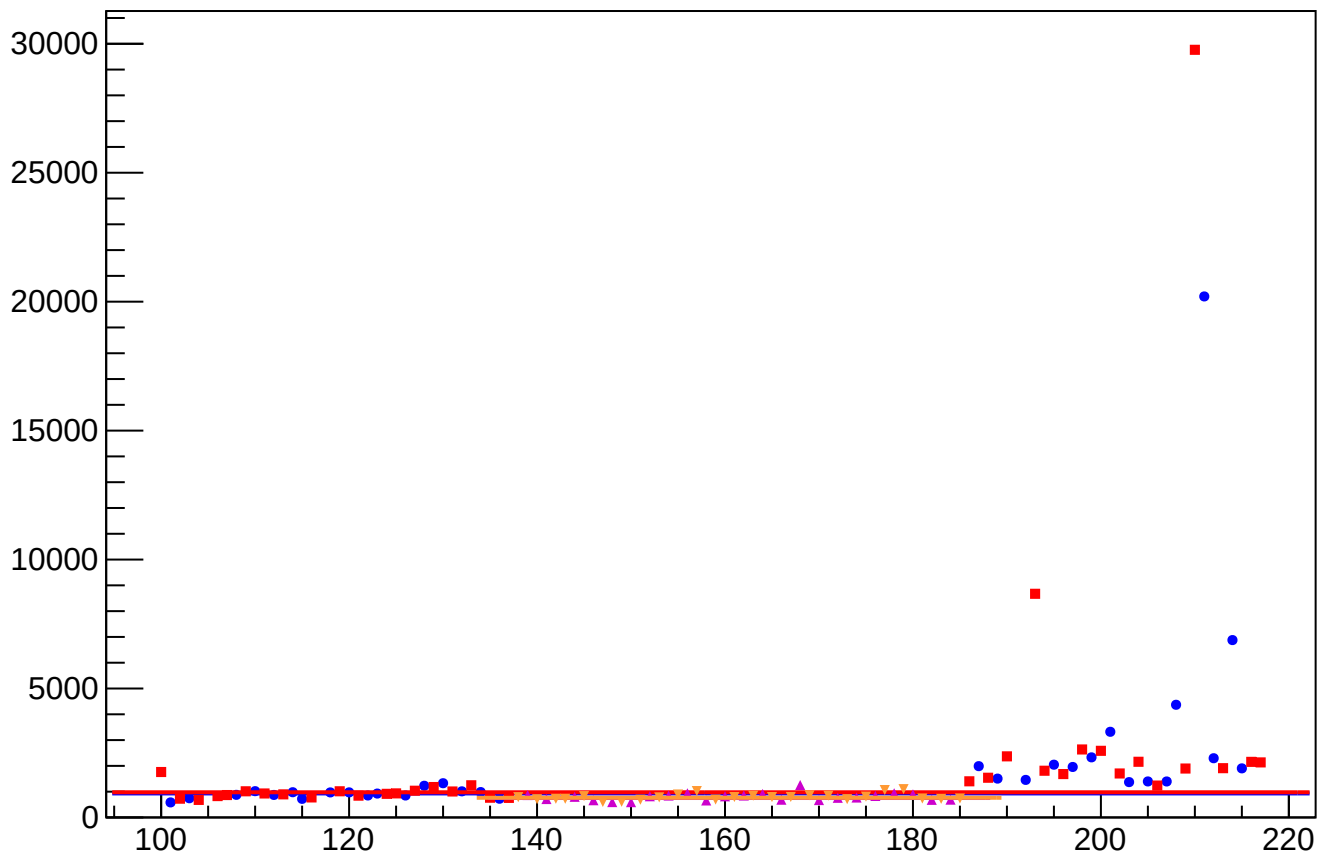
Right: -377.824 ± 218.014 χ^2/NDF : 60.0/66

In: -8.413 ± 157.300 χ^2/NDF : 48.8/54

Out: 19.613 ± 156.021 χ^2/NDF : 63.5/59

All: 5.714 ± 110.773 χ^2/NDF : 112.3/114

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 931.109+/-0.216 χ^2/NDF : 3275648.2/31

Left Out: 763.085+/-0.128 χ^2/NDF : 753700.1/24

Right Out: 976.376+/-0.220 χ^2/NDF : 2914904.2/34

Left In: 754.099+/-0.130 χ^2/NDF : 931829.3/22

Left: 758.665+/-0.091 χ^2/NDF : 1687969.6/47

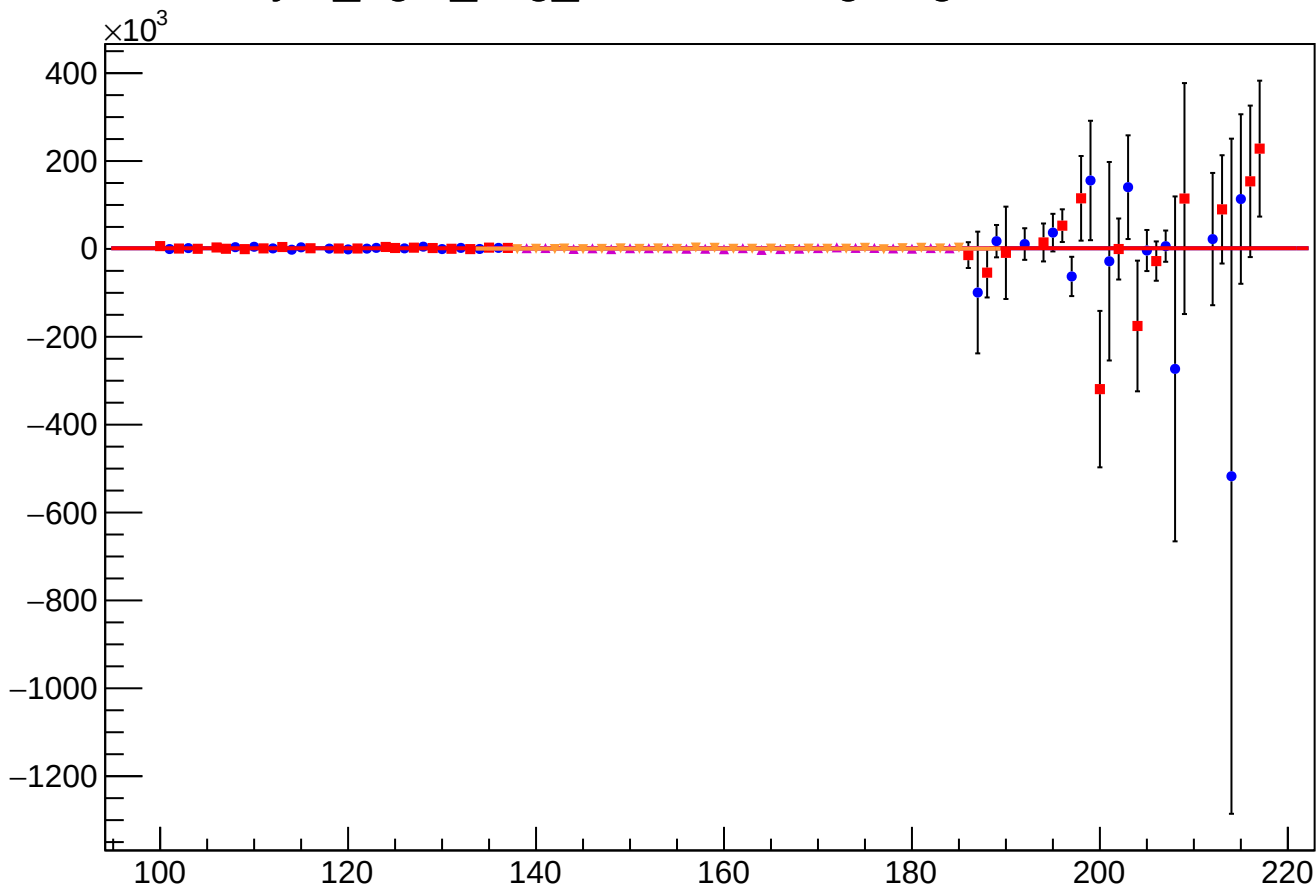
Right: 953.401+/-0.154 χ^2/NDF : 6212103.2/66

In: 800.869+/-0.111 χ^2/NDF : 4699847.3/54

Out: 816.879+/-0.110 χ^2/NDF : 4373548.1/59

All: 808.940+/-0.078 χ^2/NDF : 9083838.7/114

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.500 $\pm$ 402.534 χ^2 /NDF: 24.7/30

Left Out: 739.641 $\pm$ 225.535 χ^2 /NDF:21.5/24

Right Out: 1489.198 $\pm$ 400.594 χ^2 /NDF: 25.4/32

Left In: 1124.587 $\pm$ 230.065 χ^2 /NDF:25.4/22

Left: 928.287 $\pm$ 161.055 χ^2 /NDF: 48.3/47

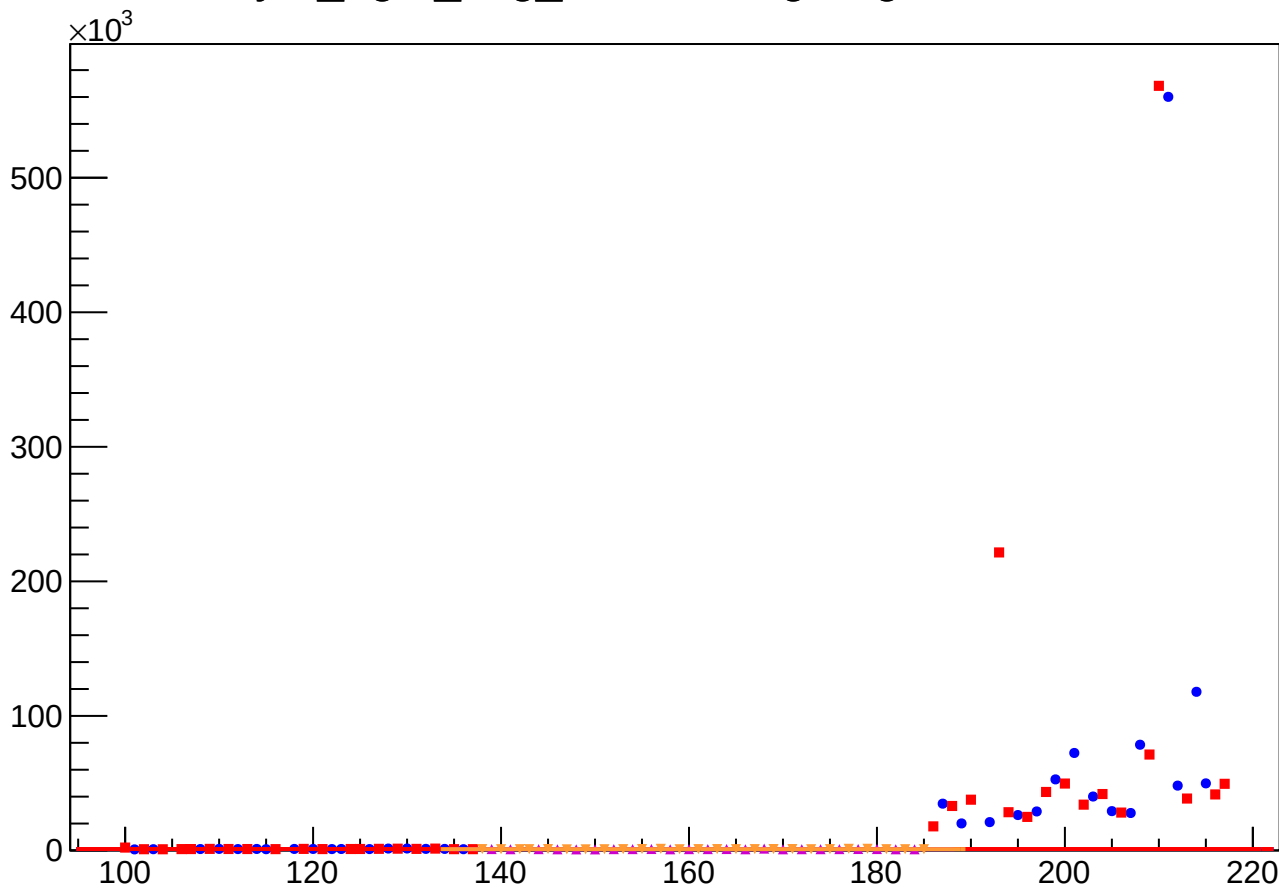
Right: 1495.319 $\pm$ 283.946 χ^2 /NDF: 50.1/63

In: 1217.394 $\pm$ 199.743 χ^2 /NDF:50.7/53

Out: 920.046 $\pm$ 196.529 χ^2 /NDF:49.6/57

All: 1066.308 $\pm$ 140.089 χ^2 /NDF: 101.4/111

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.256+/-0.285 χ^2/NDF : 6390386.1/31

Left Out: 962.256+/-0.159 χ^2/NDF : 362937.6/24

Right Out: 1074.320+/-0.283 χ^2/NDF : 6241435.1/34

Left In: 954.643+/-0.163 χ^2/NDF : 443395.0/22

Left: 958.525+/-0.114 χ^2/NDF : 807449.1/47

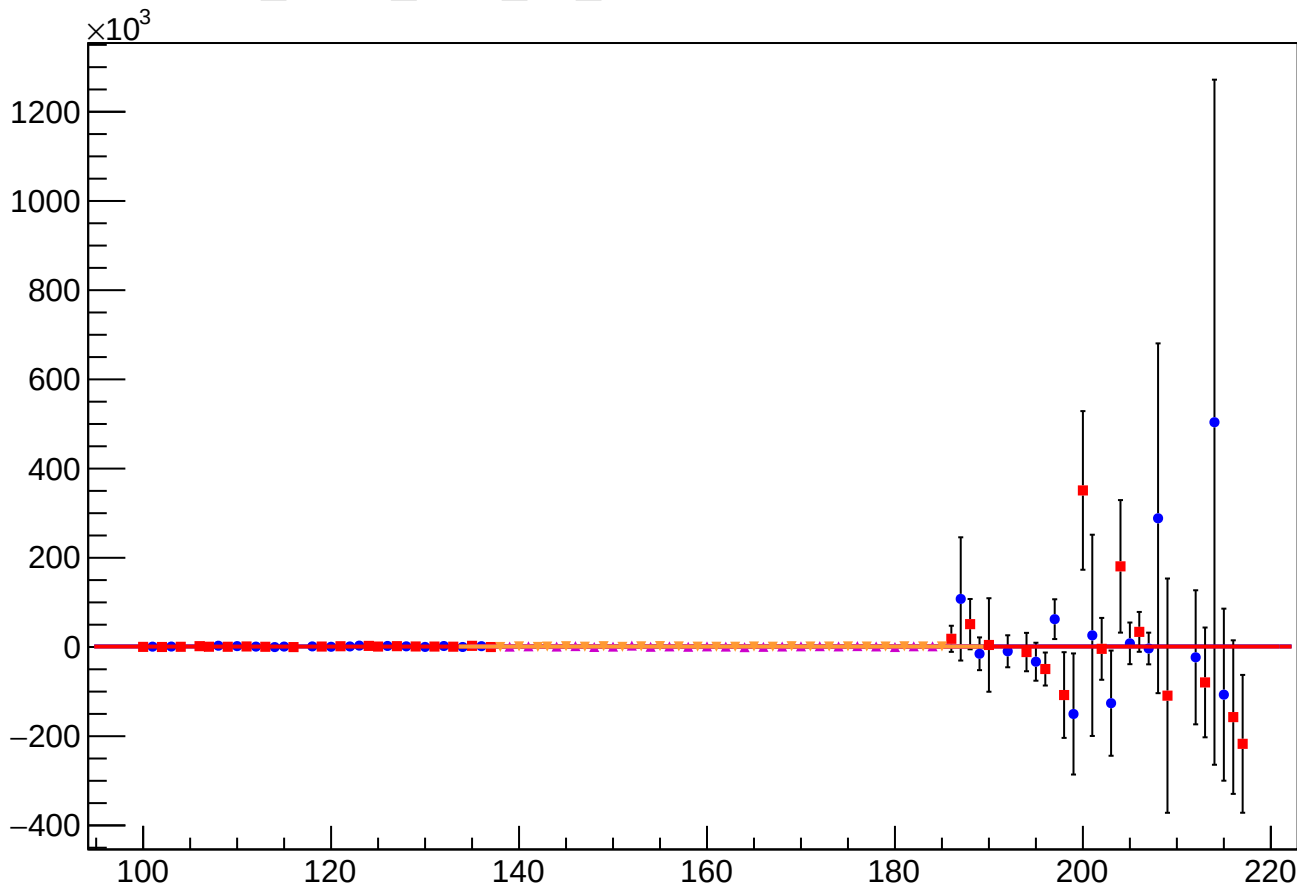
Right: 1056.873+/-0.201 χ^2/NDF : 12639445.7/66

In: 975.477+/-0.141 χ^2/NDF : 6900391.4/54

Out: 989.228+/-0.139 χ^2/NDF : 6723218.7/59

All: 982.464+/-0.099 χ^2/NDF : 13628425.8/111

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.338 $\pm$ 218.833 χ^2 /NDF: 19.2/30

Left Out: 1087.627 $\pm$ 129.821 χ^2 /NDF:14.9/24

Right Out: 965.201 $\pm$ 208.596 χ^2 /NDF: 25.9/32

Left In: 1189.481 $\pm$ 133.313 χ^2 /NDF:32.2/22

Left: 1137.202 $\pm$ 93.008 χ^2 /NDF: 47.4/47

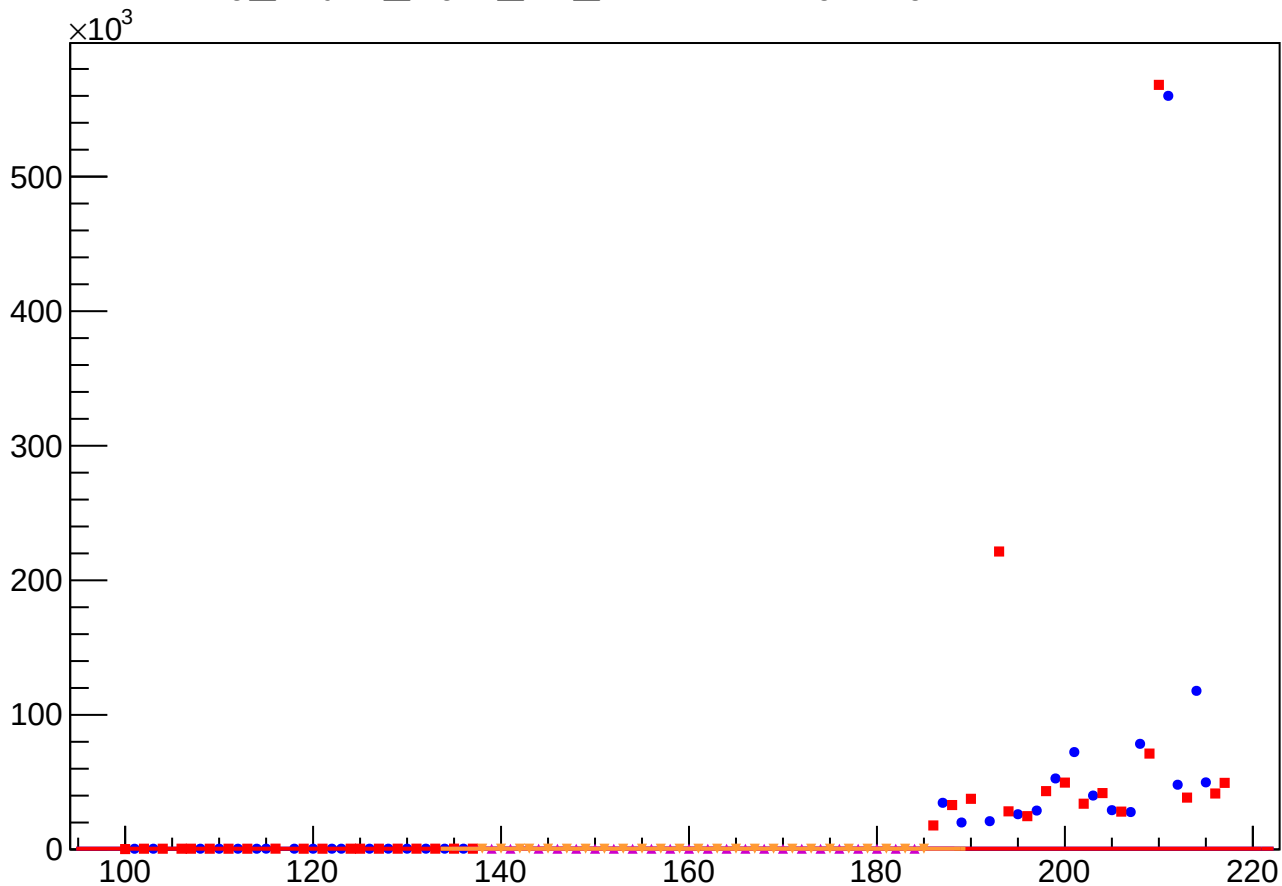
Right: 1145.694 $\pm$ 150.989 χ^2 /NDF: 46.7/63

In: 1231.397 $\pm$ 113.851 χ^2 /NDF:51.7/53

Out: 1053.447 $\pm$ 110.219 χ^2 /NDF:41.1/57

All: 1139.538 $\pm$ 79.189 χ^2 /NDF: 94.1/111

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.372 $\pm$ 0.155 χ^2 /NDF: 6262063.1/31

Left Out: 558.099 $\pm$ 0.092 χ^2 /NDF: 14785.2/24

Right Out: 559.011 $\pm$ 0.147 χ^2 /NDF: 6345355.3/34

Left In: 557.597 $\pm$ 0.094 χ^2 /NDF: 11276.8/22

Left: 557.854 $\pm$ 0.066 χ^2 /NDF: 26076.6/47

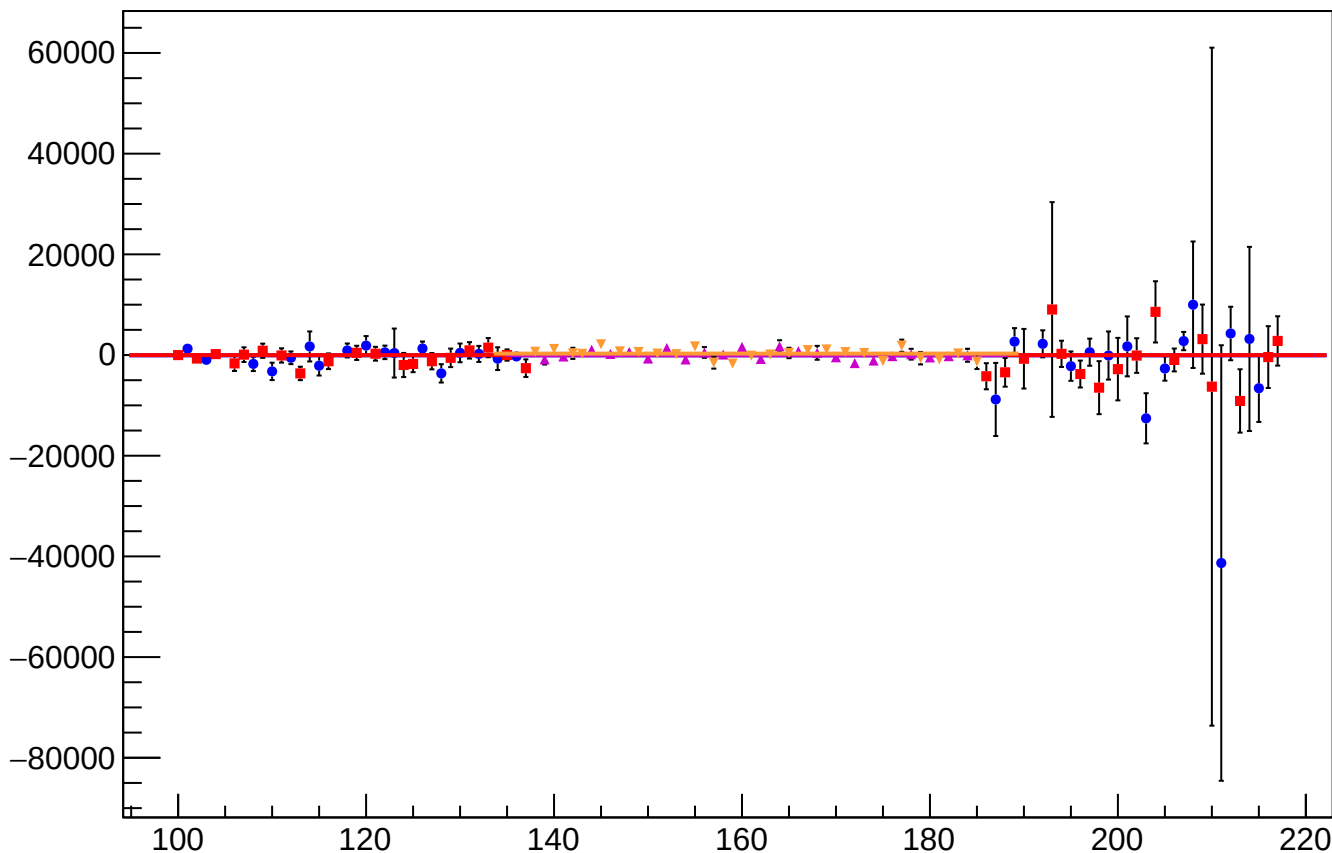
Right: 563.944 $\pm$ 0.107 χ^2 /NDF: 12609767.5/66

In: 560.784 $\pm$ 0.081 χ^2 /NDF: 6277563.6/54

Out: 558.354 $\pm$ 0.078 χ^2 /NDF: 6360168.0/59

All: 559.529 $\pm$ 0.056 χ^2 /NDF: 12638202.1/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -61.747+/-308.896 χ^2/NDF : 34.1/31

Left Out: 281.402+/-180.478 χ^2/NDF : 26.8/24

Right Out: -22.891+/-38.923 χ^2/NDF : 28.6/34

Left In: -7.306+/-183.473 χ^2/NDF : 20.1/22

Left: 139.424+/-128.663 χ^2/NDF : 48.2/47

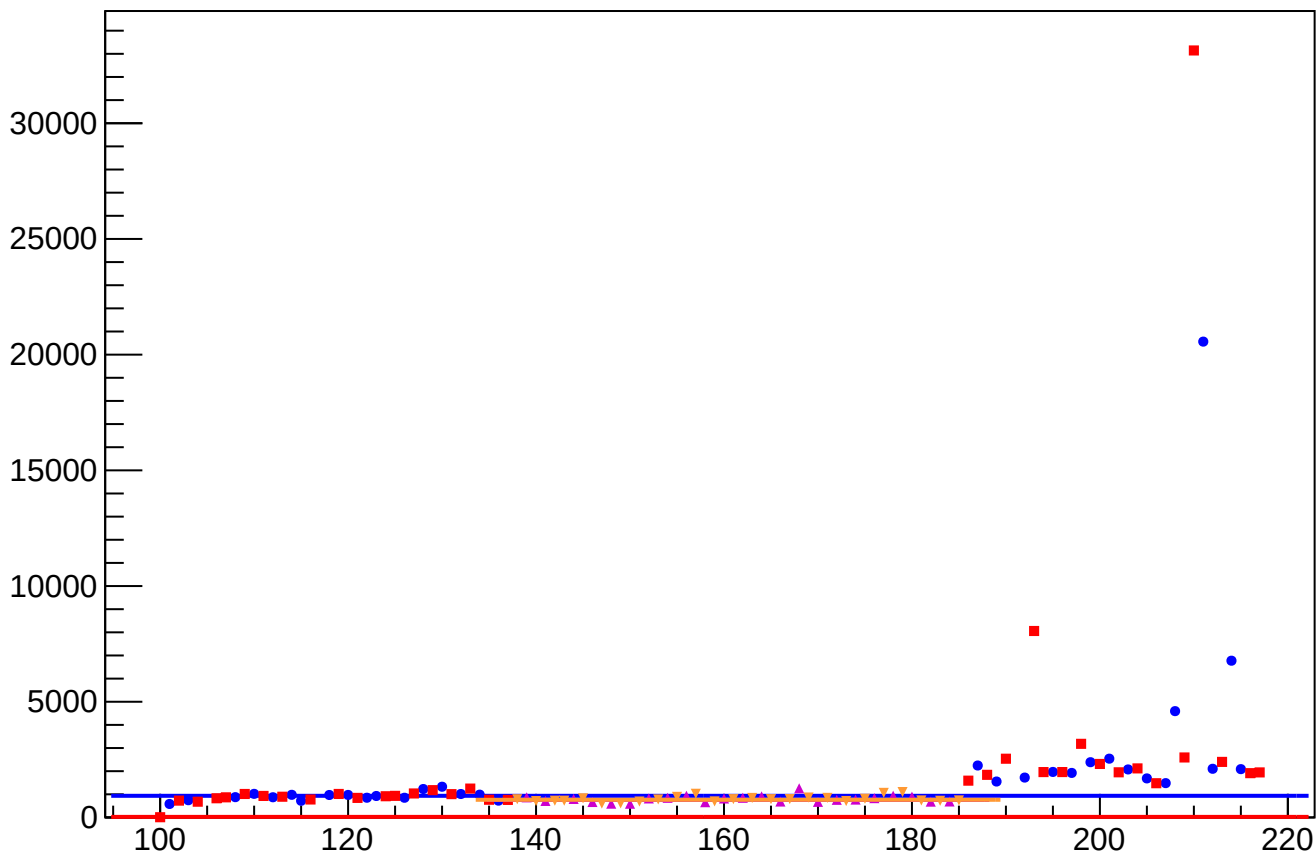
Right: -23.498+/-38.618 χ^2/NDF : 62.7/66

In: -21.504+/-157.745 χ^2/NDF : 54.2/54

Out: -9.367+/-38.049 χ^2/NDF : 58.2/59

All: -10.034+/-36.988 χ^2/NDF : 112.4/114

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 935.662 $\pm$ 0.218 χ^2 /NDF: 3469048.1/31

Left Out: 763.307 $\pm$ 0.128 χ^2 /NDF: 753728.9/24

Right Out: 24.851 $\pm$ 0.028 χ^2 /NDF: 22095992.1/34

Left In: 754.483 $\pm$ 0.130 χ^2 /NDF: 931536.8/22

Left: 758.967 $\pm$ 0.091 χ^2 /NDF: 1687616.8/47

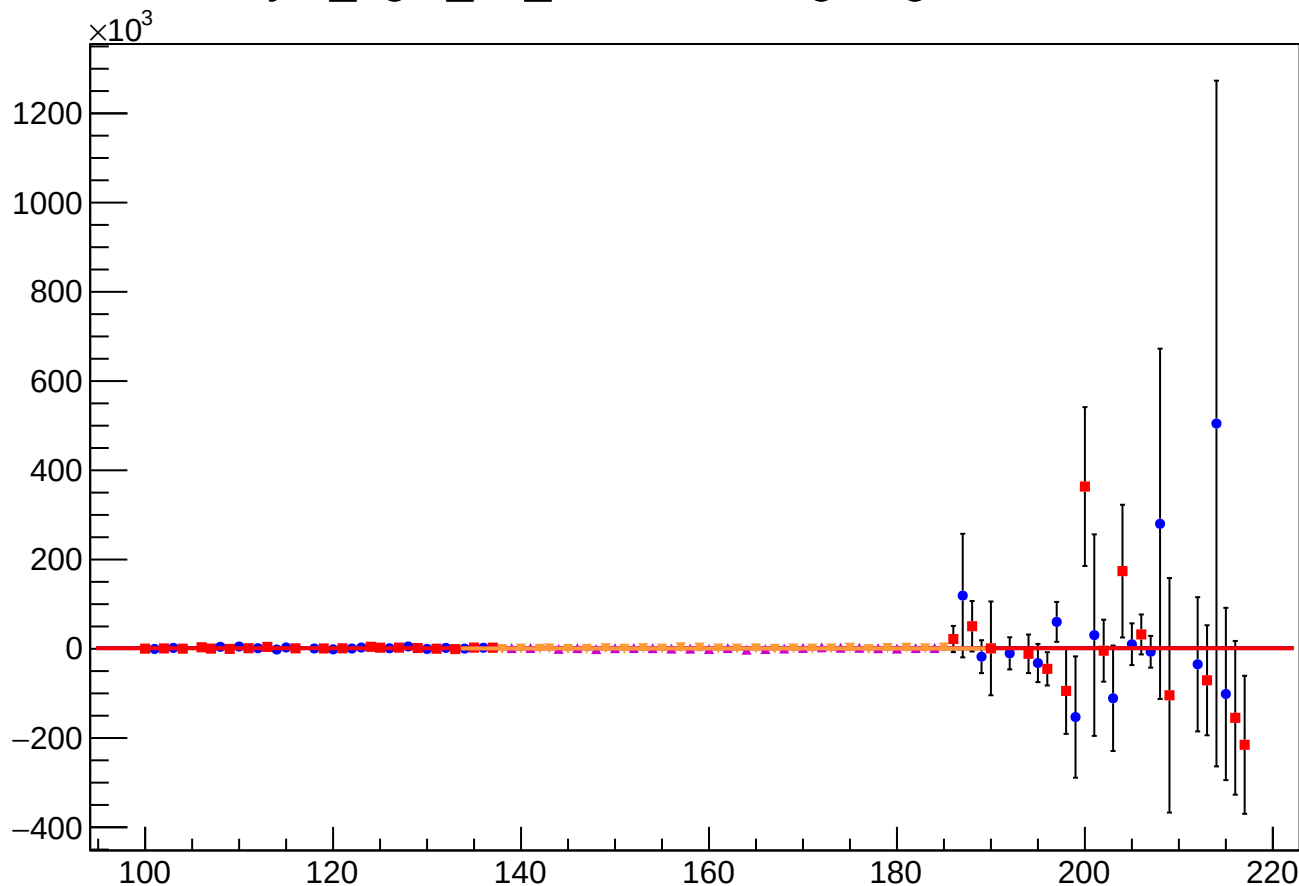
Right: 39.087 $\pm$ 0.027 χ^2 /NDF: 42681973.9/66

In: 801.733 $\pm$ 0.112 χ^2 /NDF: 4909208.1/54

Out: 57.672 $\pm$ 0.027 χ^2 /NDF: 54844998.5/59

All: 98.580 $\pm$ 0.026 χ^2 /NDF: 101805173.5/111

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.257+/-402.757 χ^2/NDF : 24.8/30

Left Out: 742.825+/-225.658 χ^2/NDF : 20.2/24

Right Out: 1287.781+/-376.576 χ^2/NDF : 25.5/32

Left In: 1176.288+/-230.229 χ^2/NDF : 24.2/22

Left: 955.211+/-161.156 χ^2/NDF : 46.3/47

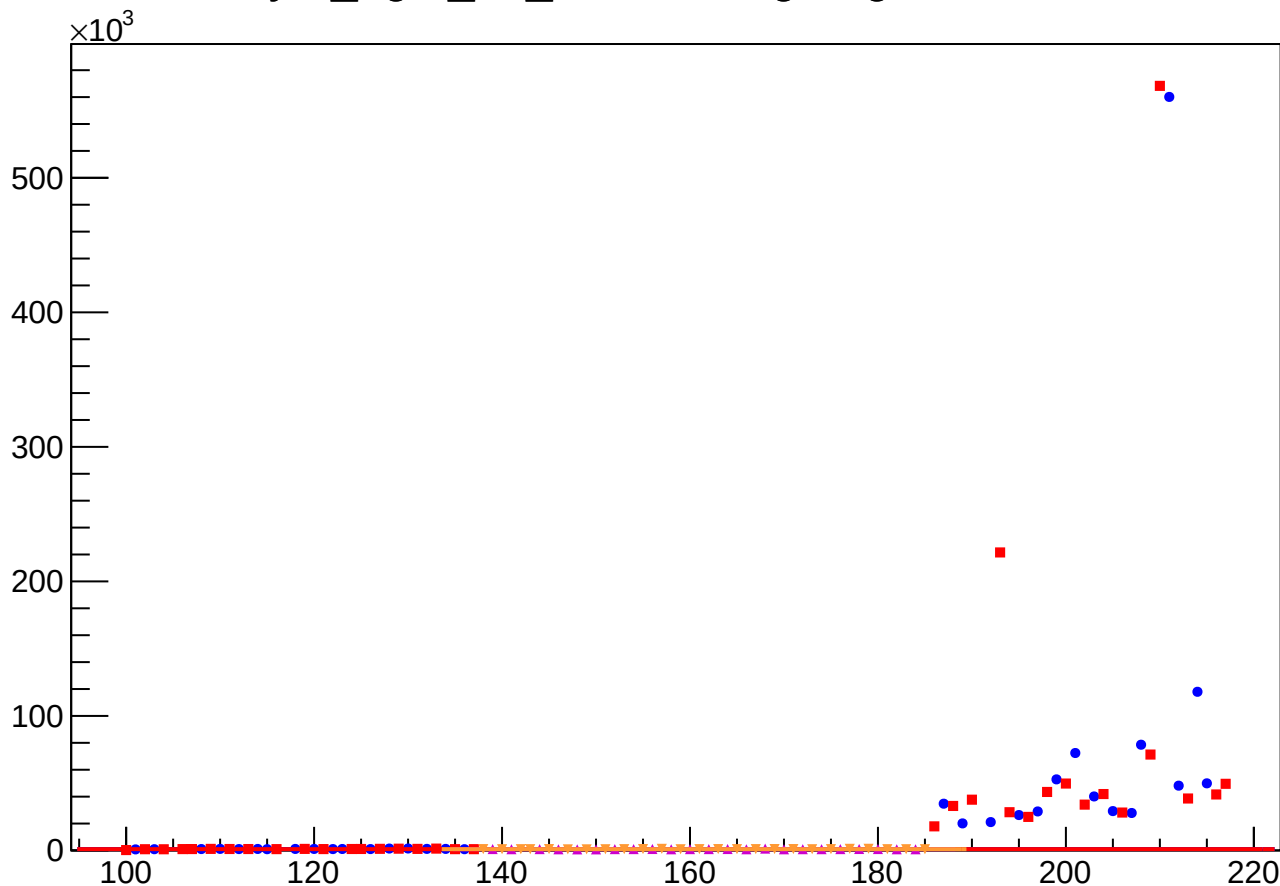
Right: 1393.886+/-275.070 χ^2/NDF : 50.5/63

In: 1259.771+/-199.877 χ^2/NDF : 49.6/53

Out: 886.808+/-193.565 χ^2/NDF : 47.3/57

All: 1067.308+/-139.049 χ^2/NDF : 98.6/111

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.840+/-0.285 χ^2/NDF : 6391083.2/31

Left Out: 962.776+/-0.160 χ^2/NDF : 362837.8/24

Right Out: 978.704+/-0.266 χ^2/NDF : 7116597.7/34

Left In: 955.331+/-0.163 χ^2/NDF : 443068.5/22

Left: 959.128+/-0.114 χ^2/NDF : 806973.3/47

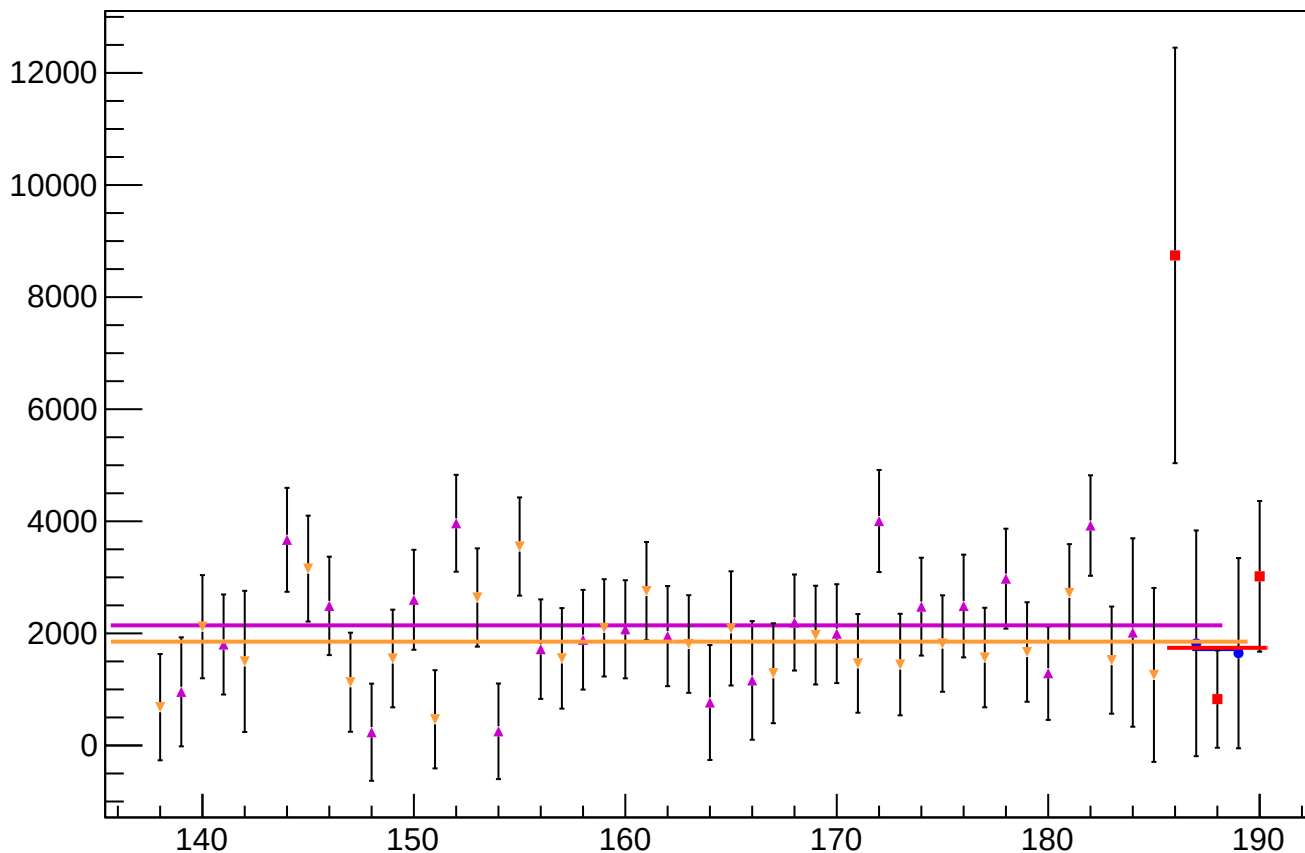
Right: 1007.220+/-0.195 χ^2/NDF : 13532268.4/66

In: 976.144+/-0.141 χ^2/NDF : 6900519.9/54

Out: 966.985+/-0.137 χ^2/NDF : 7482068.2/59

All: 971.417+/-0.098 χ^2/NDF : 14384755.3/11

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097+/-1297.686 χ^2/NDF : 0.0/1

Left Out: 1852.926+/-187.412 χ^2/NDF :15.0/23

Right Out: 1742.386+/-715.276 χ^2/NDF : 5.6/2

Left In: 2143.254+/-190.144 χ^2/NDF :32.4/22

Left: 1995.990+/-133.476 χ^2/NDF : 48.5/46

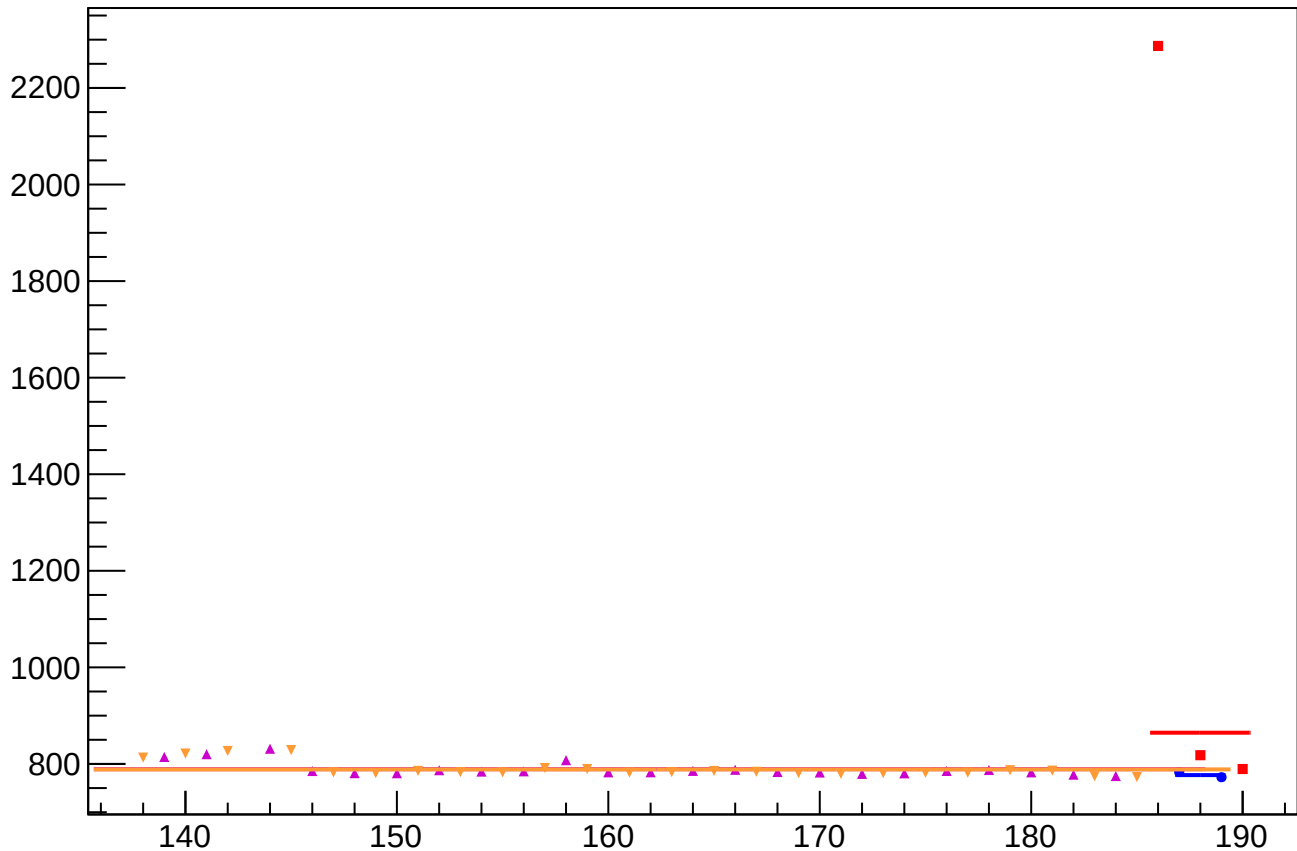
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

In: 2134.360+/-188.135 χ^2/NDF :32.5/24

Out: 1845.825+/-181.293 χ^2/NDF :20.6/26

All: 1984.750+/-130.545 χ^2/NDF : 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892 ± 0.918 χ^2/NDF : 32.5/1

Left Out: 788.658 ± 0.133 χ^2/NDF : 11499.7/23

Right Out: 864.658 ± 0.506 χ^2/NDF : 306489.7/2

Left In: 789.176 ± 0.134 χ^2/NDF : 10860.4/22

Left: 788.914 ± 0.094 χ^2/NDF : 22367.7/46

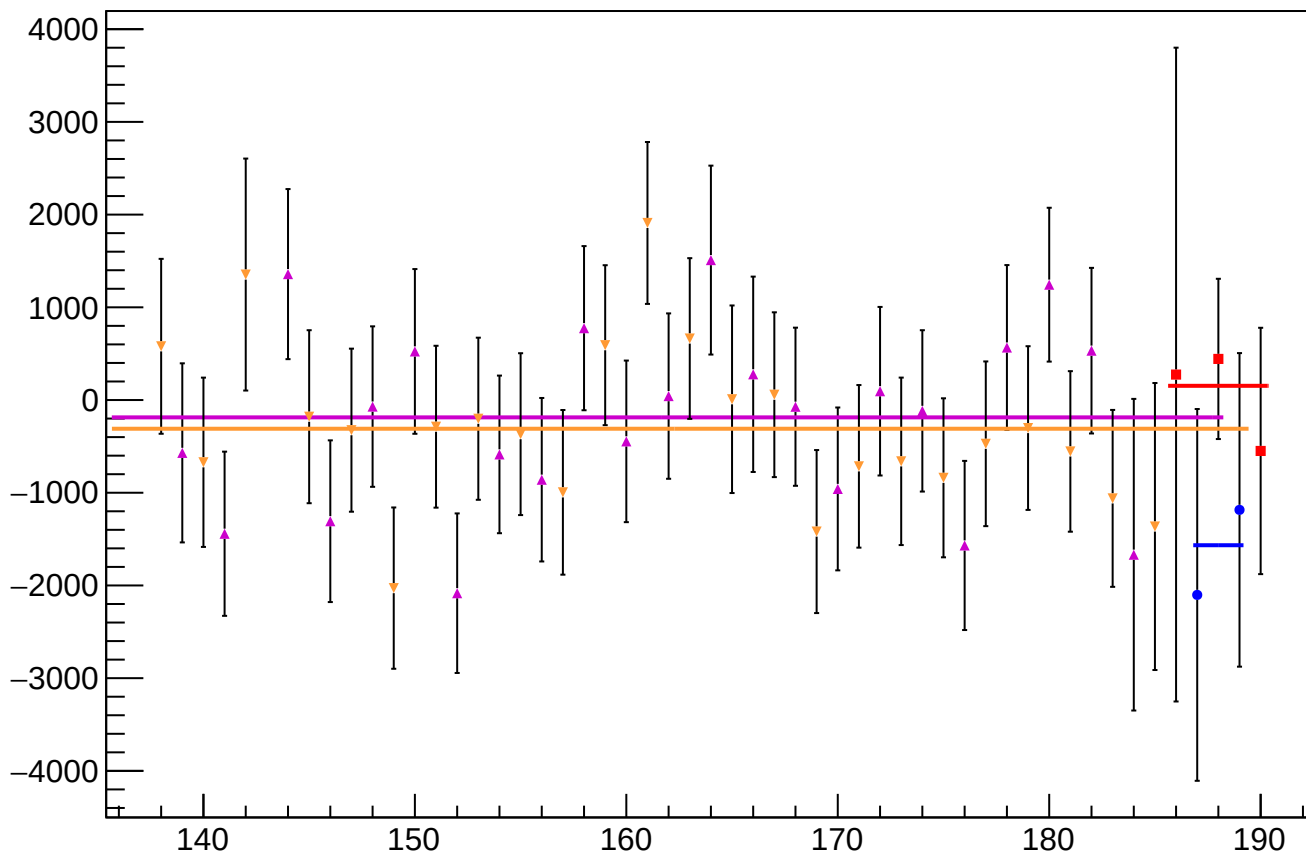
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

In: 788.918 ± 0.133 χ^2/NDF : 11068.4/24

Out: 793.541 ± 0.128 χ^2/NDF : 339118.2/26

All: 791.315 ± 0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -1566.105 $\pm$ 1292.689 χ^2 /NDF: 0.1/1

Left Out: -309.656 $\pm$ 186.542 χ^2 /NDF:20.0/23

Right Out: 153.360 $\pm$ 709.634 χ^2 /NDF: 0.4/2

Left In: -187.105 $\pm$ 189.265 χ^2 /NDF:25.6/22

Left: -249.268 $\pm$ 132.858 χ^2 /NDF: 45.8/46

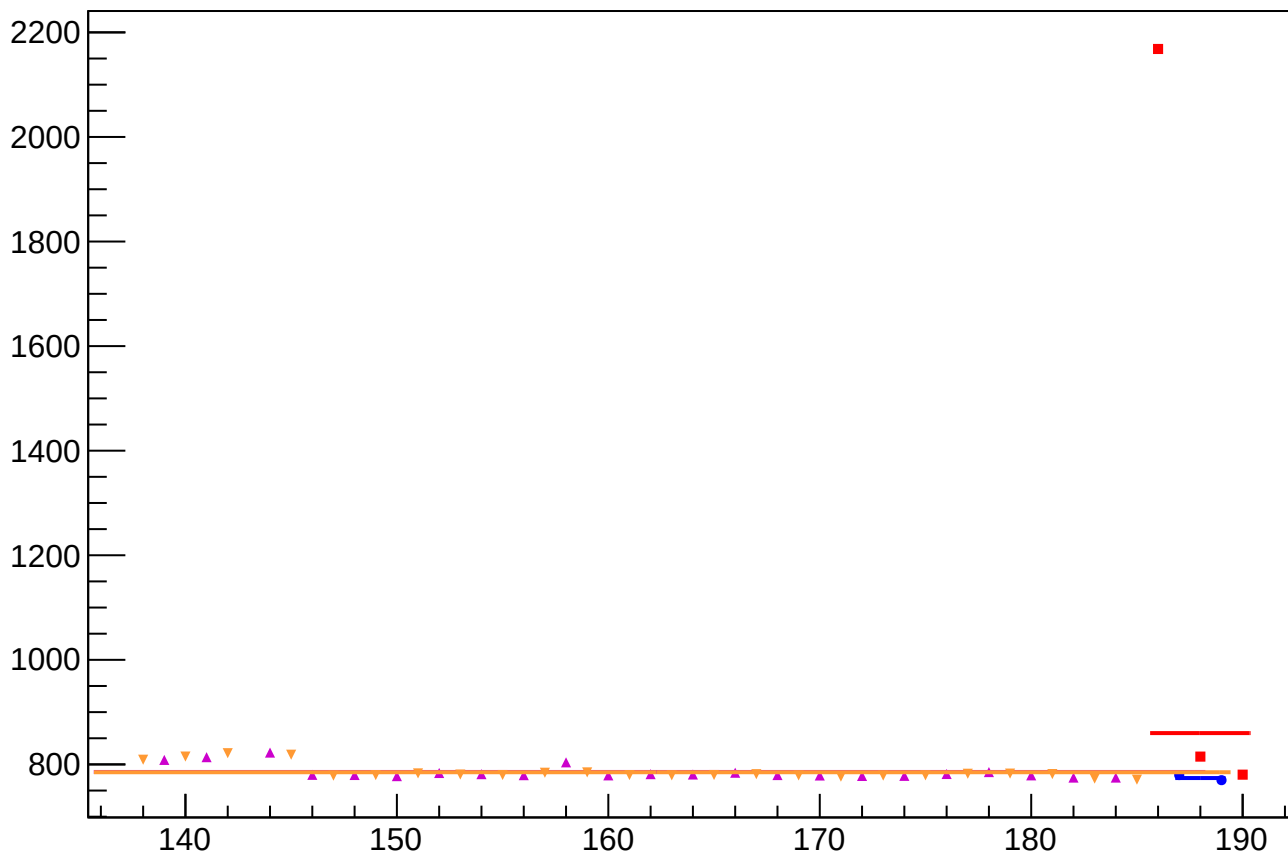
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

In: -216.045 $\pm$ 187.269 χ^2 /NDF:26.8/24

Out: -279.729 $\pm$ 180.413 χ^2 /NDF:20.8/26

All: -249.074 $\pm$ 129.927 χ^2 /NDF: 47.6/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922 ± 0.914 χ^2/NDF : 27.7/1

Left Out: 785.050 ± 0.132 χ^2/NDF : 9365.3/23

Right Out: 859.900 ± 0.502 χ^2/NDF : 287948.2/2

Left In: 785.562 ± 0.134 χ^2/NDF : 9033.0/22

Left: 785.302 ± 0.094 χ^2/NDF : 18405.7/46

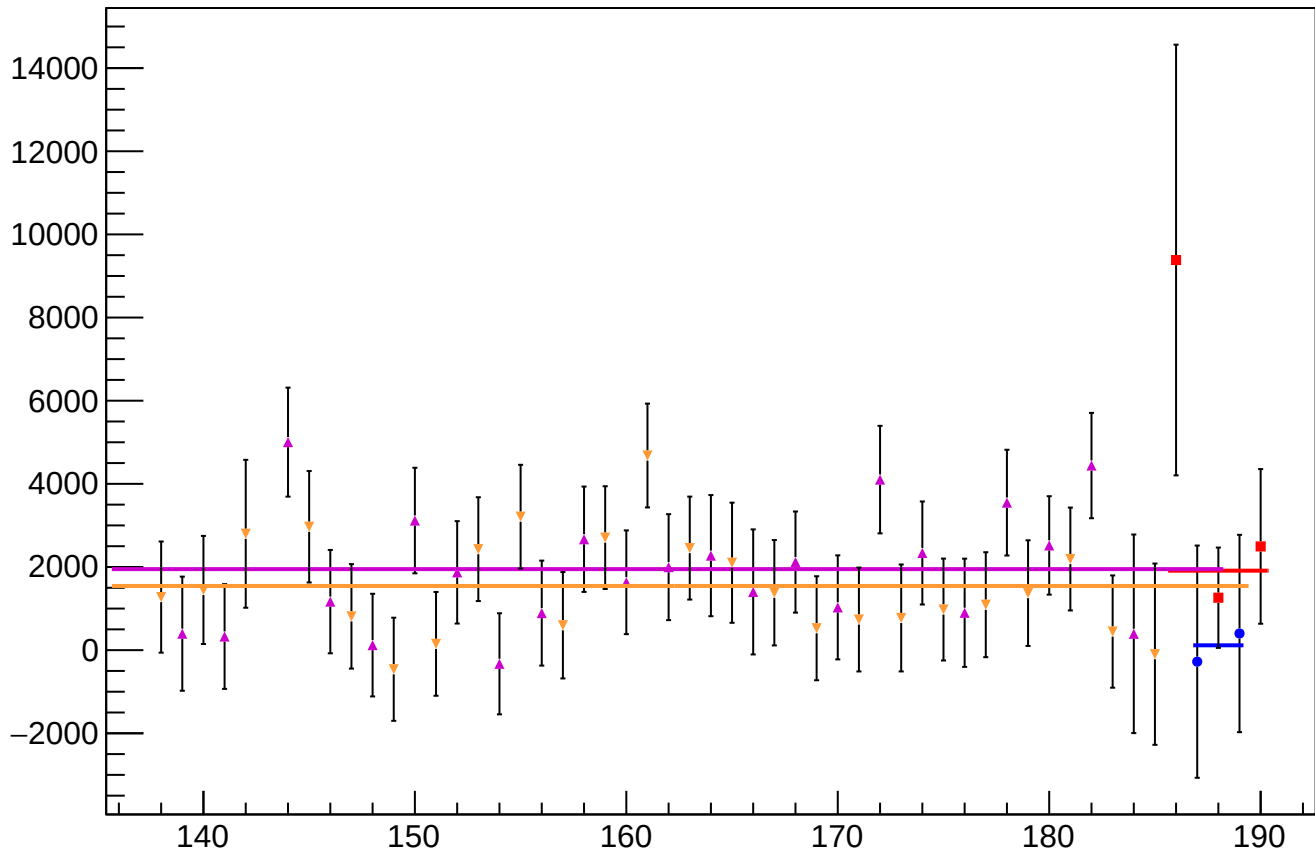
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

In: 785.318 ± 0.132 χ^2/NDF : 9219.5/24

Out: 789.888 ± 0.128 χ^2/NDF : 318126.2/26

All: 787.688 ± 0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 116.401 $\pm$ 1808.672 χ^2 /NDF: 0.0/1

Left Out: 1543.729 $\pm$ 266.278 χ^2 /NDF:19.9/23

Right Out: 1911.693 $\pm$ 993.236 χ^2 /NDF: 2.5/2

Left In: 1949.077 $\pm$ 270.080 χ^2 /NDF:26.8/22

Left: 1743.530 $\pm$ 189.617 χ^2 /NDF: 47.8/46

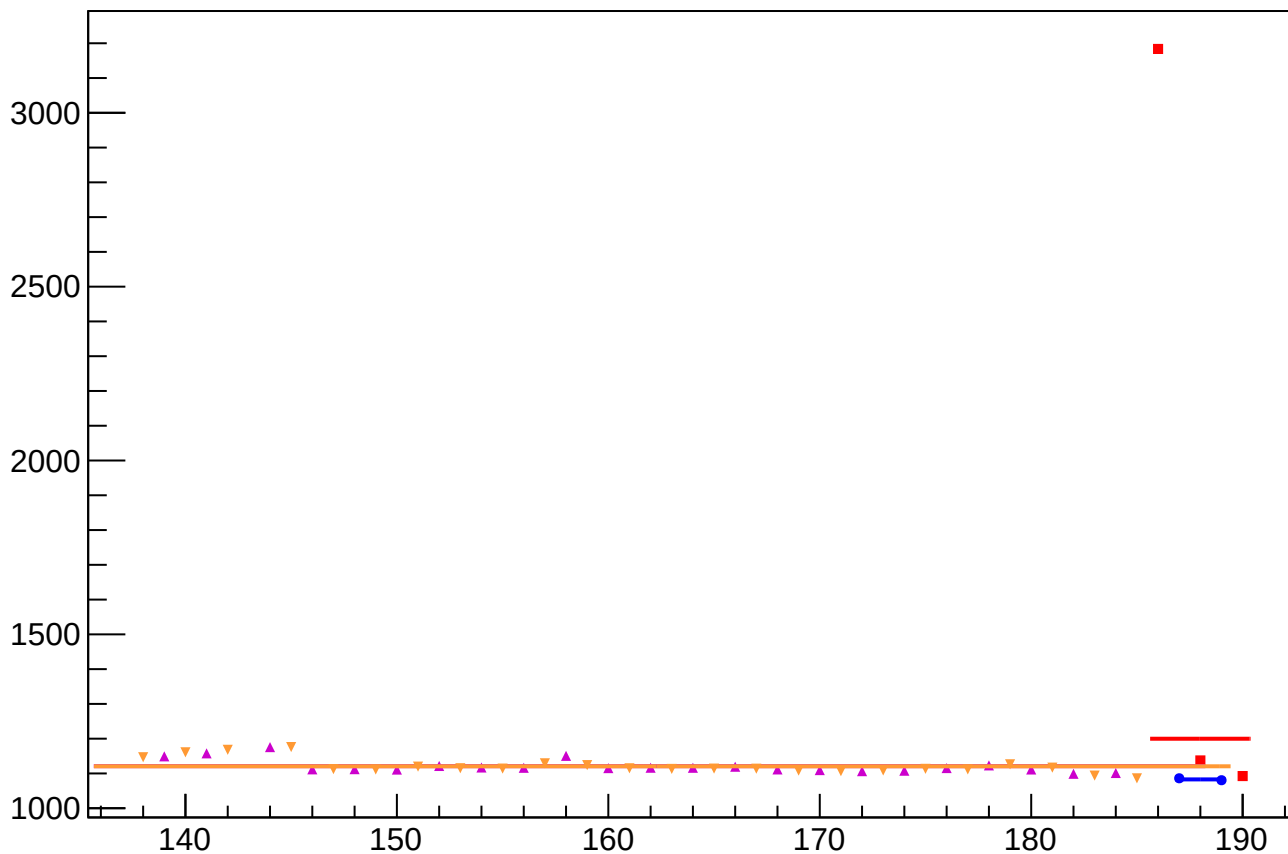
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

In: 1909.103 $\pm$ 267.118 χ^2 /NDF:27.8/24

Out: 1568.402 $\pm$ 257.196 χ^2 /NDF:22.5/26

All: 1732.308 $\pm$ 185.274 χ^2 /NDF: 51.2/51

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866+/-1.279 χ^2/NDF : 4.6/1

Left Out: 1120.578+/-0.188 χ^2/NDF : 10264.0/23

Right Out: 1199.844+/-0.702 χ^2/NDF : 305356.1/2

Left In: 1120.977+/-0.191 χ^2/NDF : 9259.6/22

Left: 1120.775+/-0.134 χ^2/NDF : 19525.9/46

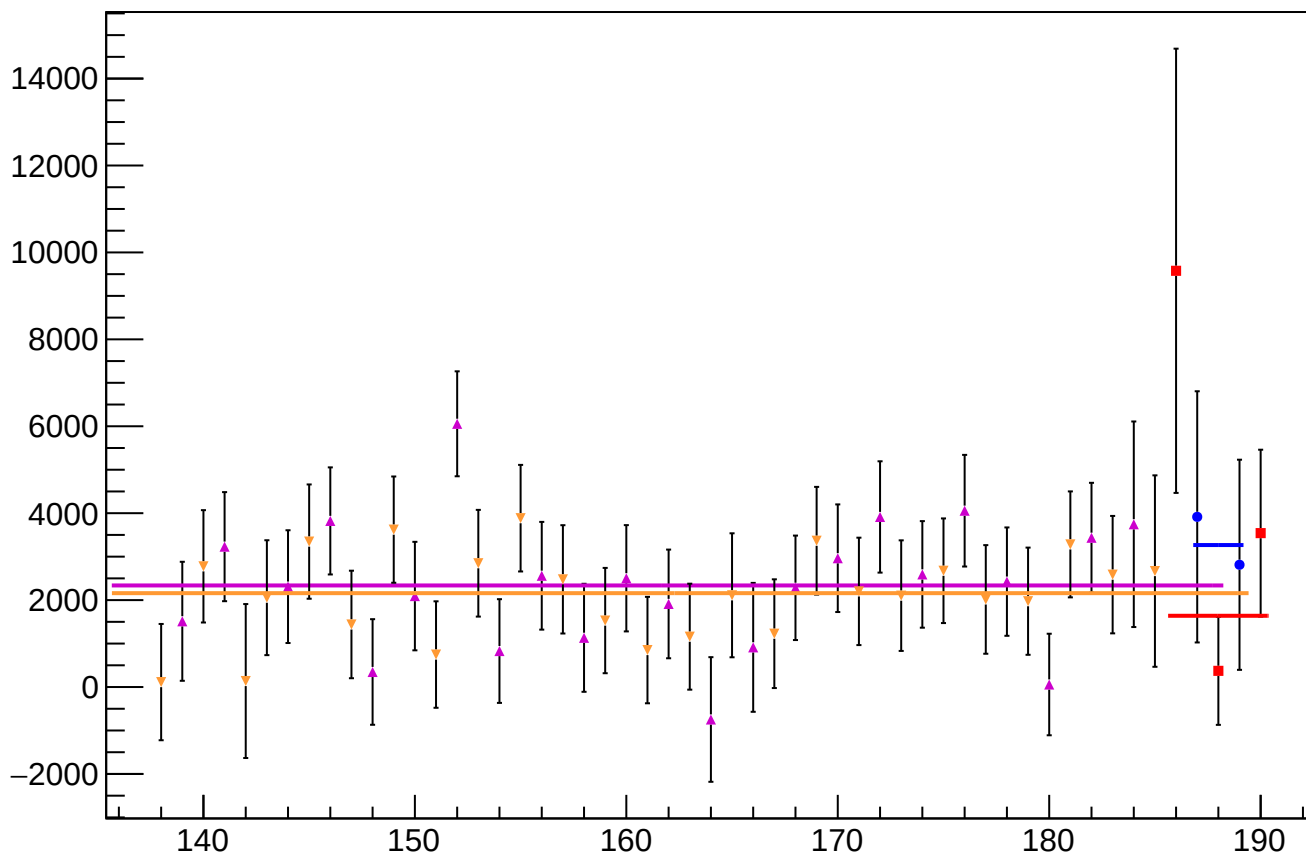
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

In: 1120.146+/-0.189 χ^2/NDF : 10132.9/24

Out: 1125.893+/-0.182 χ^2/NDF : 327503.8/26

All: 1123.129+/-0.131 χ^2/NDF : 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 3266.922 $\pm$ 1854.338 χ^2 /NDF: 0.1/1

Left Out: 2159.879 $\pm$ 257.526 χ^2 /NDF:15.0/24

Right Out: 1639.449 $\pm$ 1022.123 χ^2 /NDF: 4.4/2

Left In: 2337.232 $\pm$ 266.468 χ^2 /NDF:31.3/22

Left: 2245.530 $\pm$ 185.179 χ^2 /NDF: 46.5/47

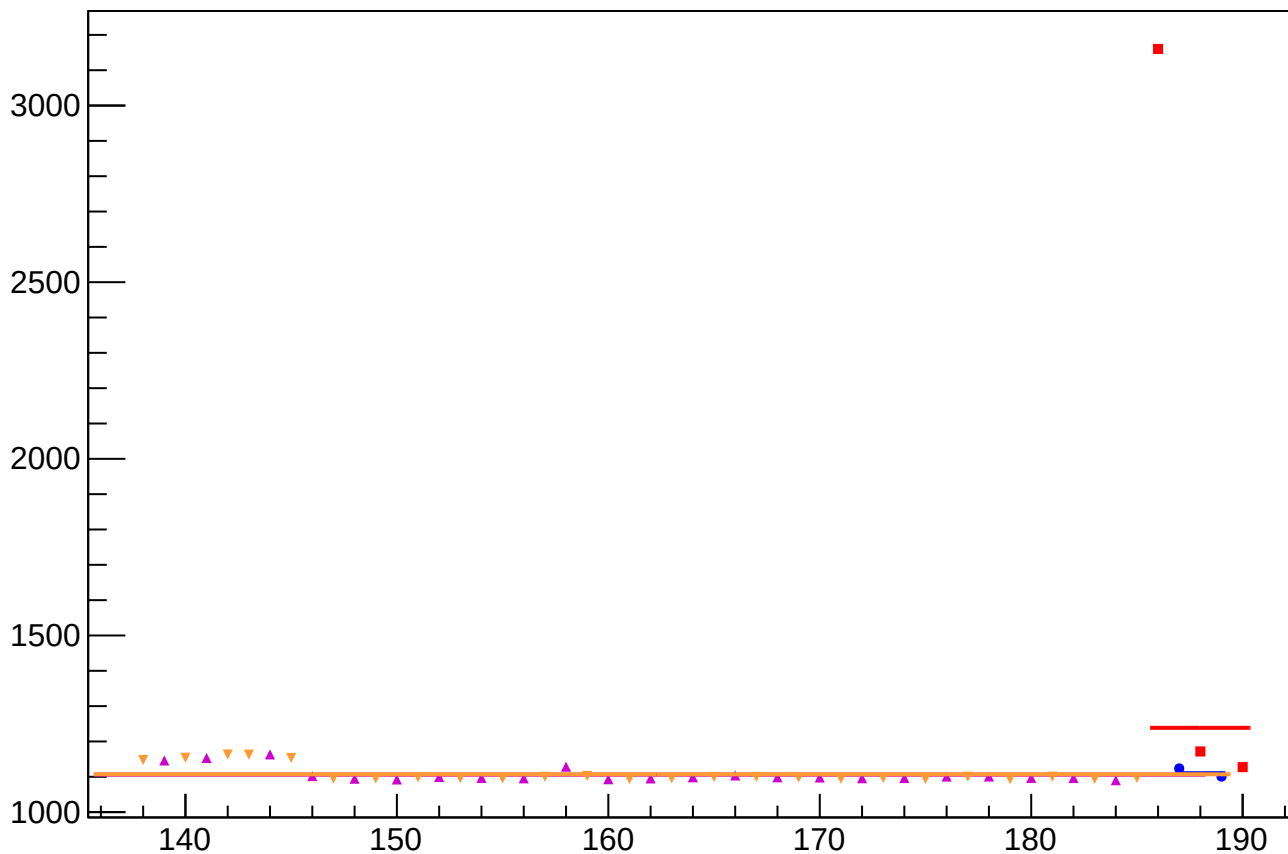
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

In: 2356.041 $\pm$ 263.759 χ^2 /NDF:31.6/24

Out: 2128.815 $\pm$ 249.722 χ^2 /NDF:19.6/27

All: 2236.221 $\pm$ 181.339 χ^2 /NDF: 51.7/52

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109 $\pm$ 1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091 $\pm$ 0.182 χ^2/NDF : 15185.2/24

Right Out: 1238.637 $\pm$ 0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955 $\pm$ 0.188 χ^2/NDF : 11111.3/22

Left: 1106.543 $\pm$ 0.131 χ^2/NDF : 26315.2/47

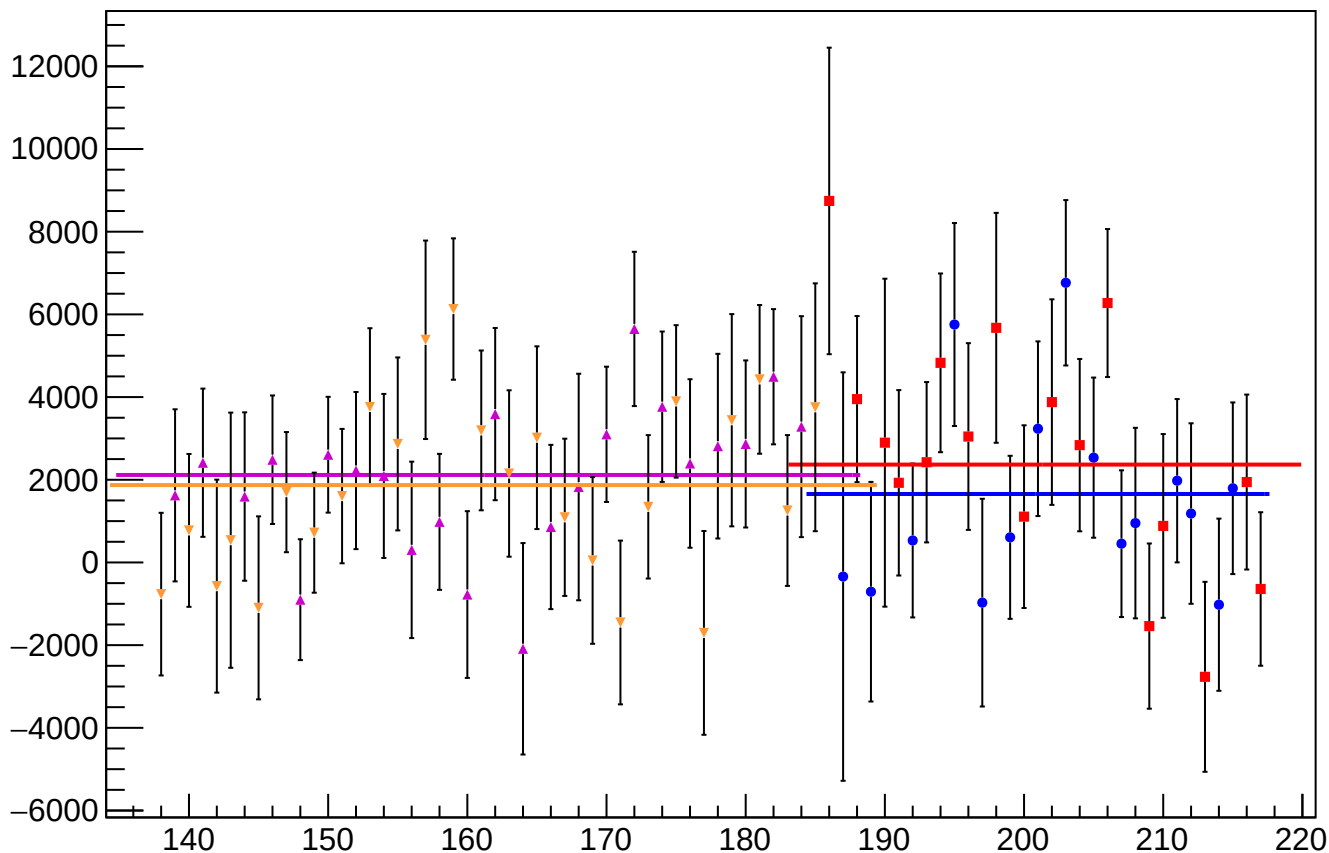
Right: 1208.687 $\pm$ 0.633 χ^2/NDF : 302689.7/4

In: 1106.039 $\pm$ 0.187 χ^2/NDF : 11196.4/24

Out: 1114.943 $\pm$ 0.177 χ^2/NDF : 341579.9/27

All: 1110.735 $\pm$ 0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1656.064 $\pm$ 556.556 χ^2 /NDF: 15.1/14

Left Out: 1871.638 $\pm$ 391.684 χ^2 /NDF: 26.1/24

Right Out: 2367.450 $\pm$ 538.113 χ^2 /NDF: 23.9/16

Left In: 2116.114 $\pm$ 392.997 χ^2 /NDF: 18.8/22

Left: 1993.467 $\pm$ 277.425 χ^2 /NDF: 45.1/47

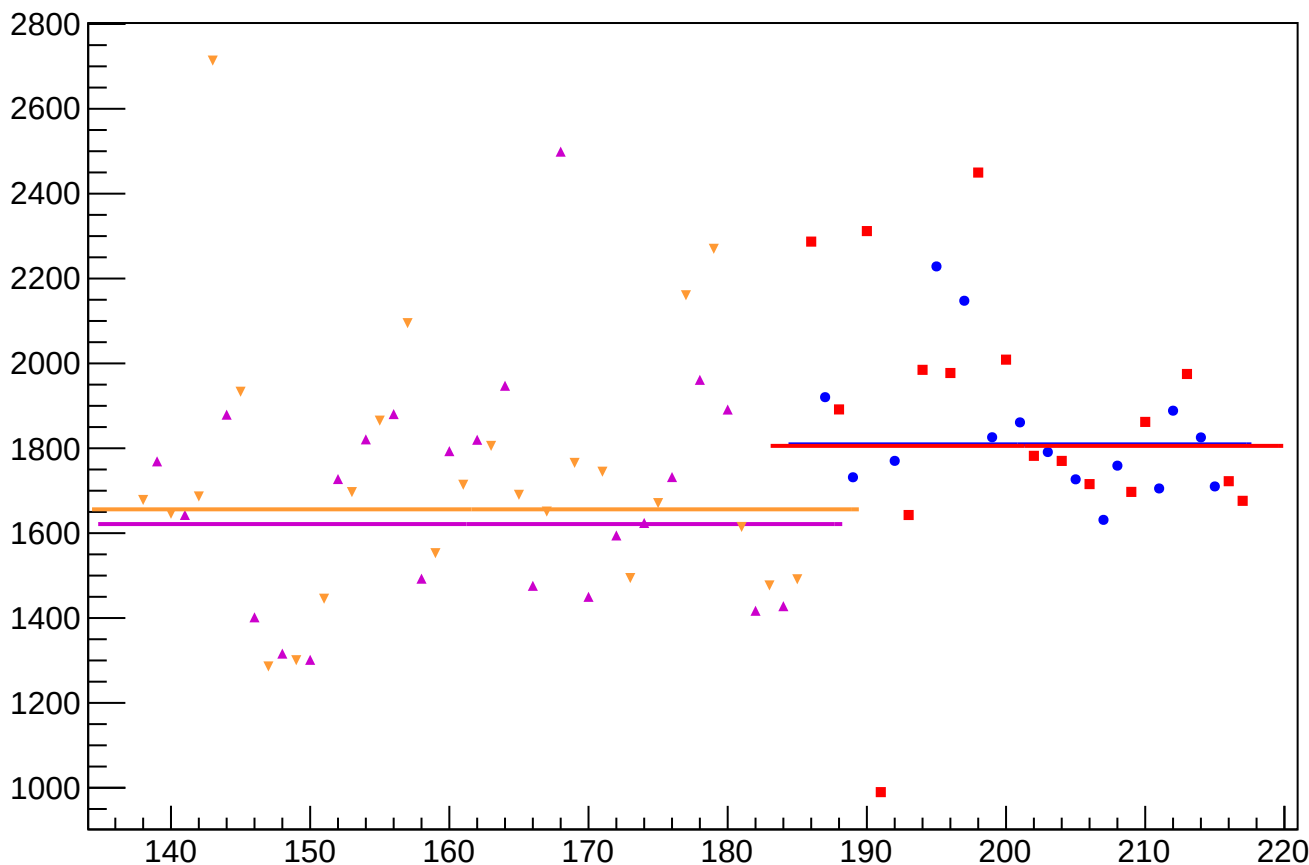
Right: 2023.739 $\pm$ 386.859 χ^2 /NDF: 39.8/31

In: 1963.049 $\pm$ 321.029 χ^2 /NDF: 34.3/37

Out: 2043.351 $\pm$ 316.677 χ^2 /NDF: 50.6/41

All: 2003.748 $\pm$ 225.447 χ^2 /NDF: 84.9/79

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1809.190 $\pm$ 0.394 χ^2/NDF : 137274.9/14

Left Out: 1656.119 $\pm$ 0.277 χ^2/NDF : 910573.4/24

Right Out: 1805.671 $\pm$ 0.381 χ^2/NDF : 535113.4/16

Left In: 1621.417 $\pm$ 0.278 χ^2/NDF : 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2/NDF : 1693706.9/47

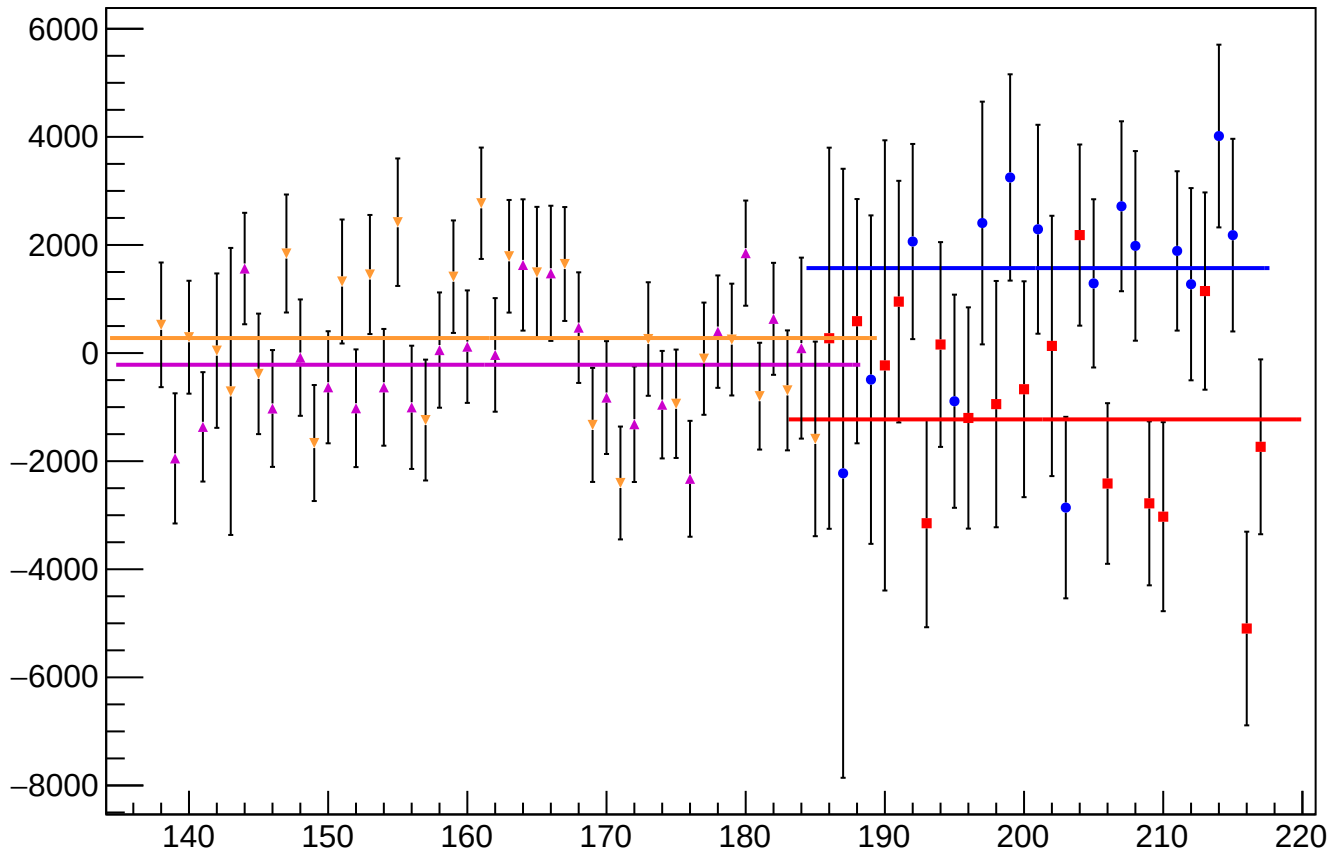
Right: 1807.371 $\pm$ 0.274 χ^2/NDF : 672429.6/31

In: 1683.892 $\pm$ 0.227 χ^2/NDF : 1064497.0/37

Out: 1707.913 $\pm$ 0.224 χ^2/NDF : 1546665.2/41

All: 1696.066 $\pm$ 0.159 χ^2/NDF : 2616837.5/79

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1572.139 $\pm$ 477.688 χ^2 /NDF: 13.5/14

Left Out: 278.090 $\pm$ 223.581 χ^2 /NDF:38.4/24

Right Out: -1227.159 $\pm$ 471.321 χ^2 /NDF: 17.1/16

Left In: -216.121 $\pm$ 225.600 χ^2 /NDF:24.4/22

Left: 33.207 $\pm$ 158.805 χ^2 /NDF: 65.2/47

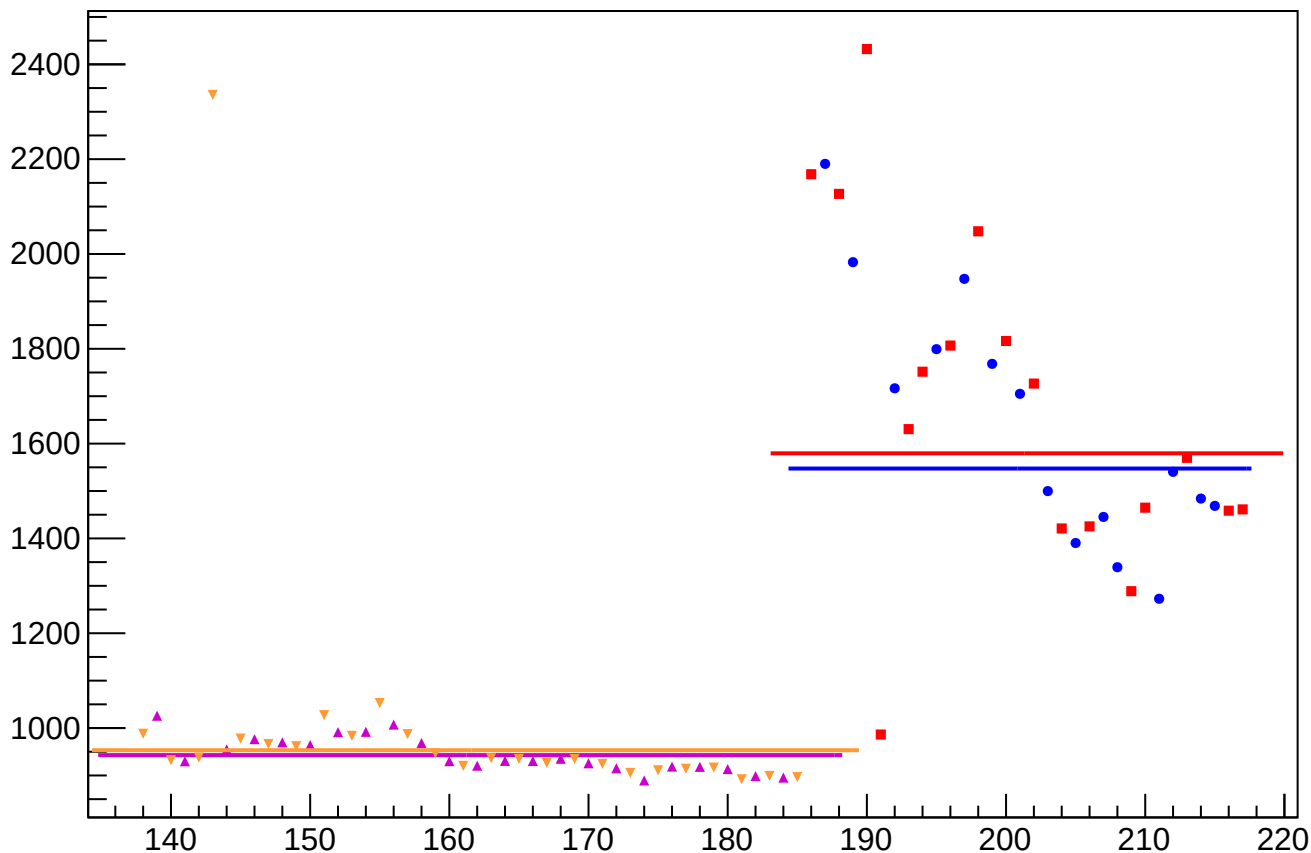
Right: 153.709 $\pm$ 335.503 χ^2 /NDF: 48.0/31

In: 110.000 $\pm$ 203.995 χ^2 /NDF:49.3/37

Out: 1.588 $\pm$ 202.005 χ^2 /NDF:63.8/41

All: 55.263 $\pm$ 143.537 χ^2 /NDF: 113.3/79

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1547.422+/-0.338 χ^2/NDF : 355594.1/14

Left Out: 953.221+/-0.158 χ^2/NDF : 606273.1/24

Right Out: 1579.533+/-0.333 χ^2/NDF : 701905.9/16

Left In: 942.927+/-0.160 χ^2/NDF : 48402.9/22

Left: 948.120+/-0.112 χ^2/NDF : 656777.0/47

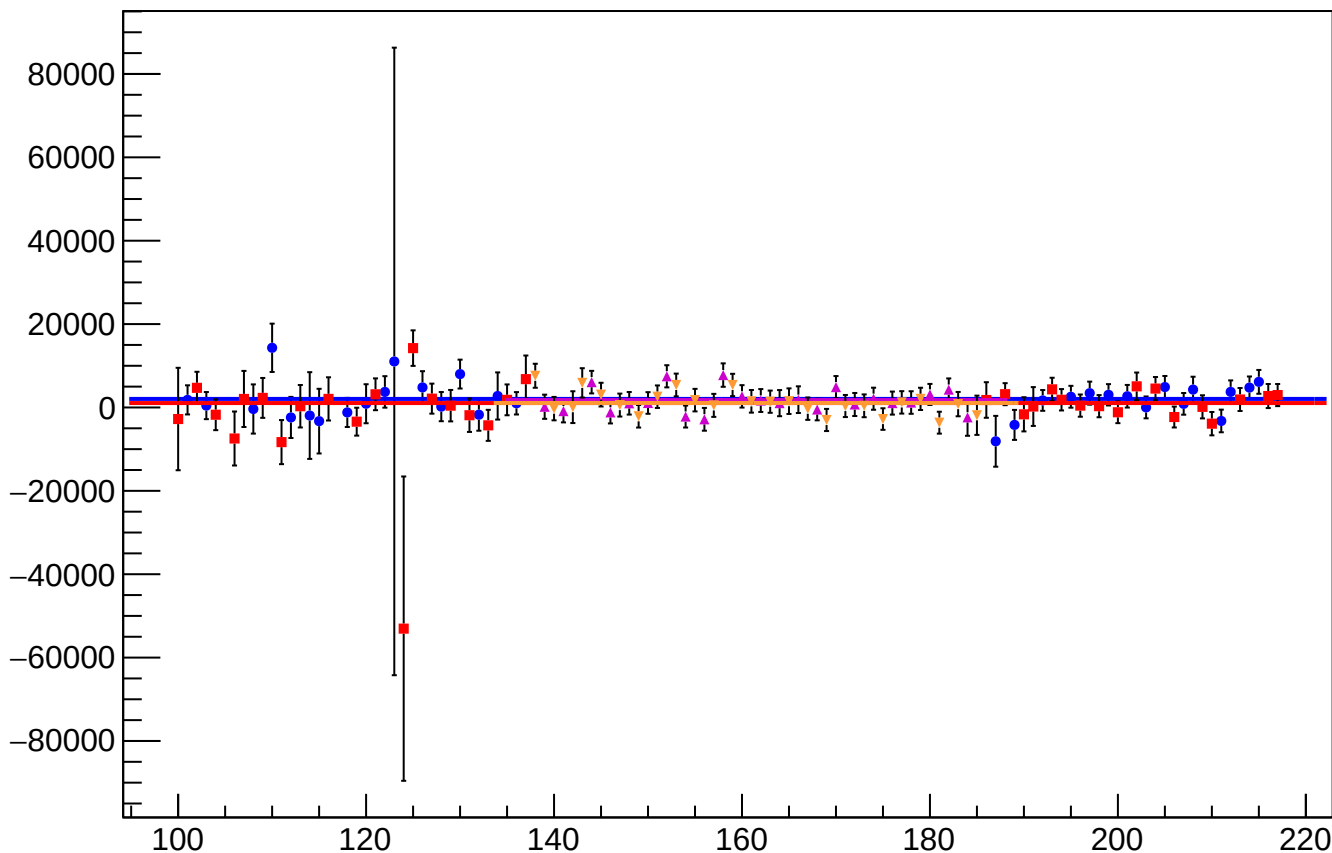
Right: 1563.693+/-0.237 χ^2/NDF : 1062079.5/31

In: 1053.167+/-0.144 χ^2/NDF : 3022690.7/37

Out: 1068.269+/-0.143 χ^2/NDF : 4191097.2/41

All: 1060.792+/-0.101 χ^2/NDF : 7219322.6/79

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 2051.539 $\pm$ 590.229 χ^2 /NDF: 28.4/31

Left Out: 1078.054 $\pm$ 564.005 χ^2 /NDF: 23.6/24

Right Out: 1058.034 $\pm$ 577.774 χ^2 /NDF: 36.7/35

Left In: 1777.100 $\pm$ 575.895 χ^2 /NDF: 24.1/22

Left: 1420.287 $\pm$ 402.950 χ^2 /NDF: 48.4/47

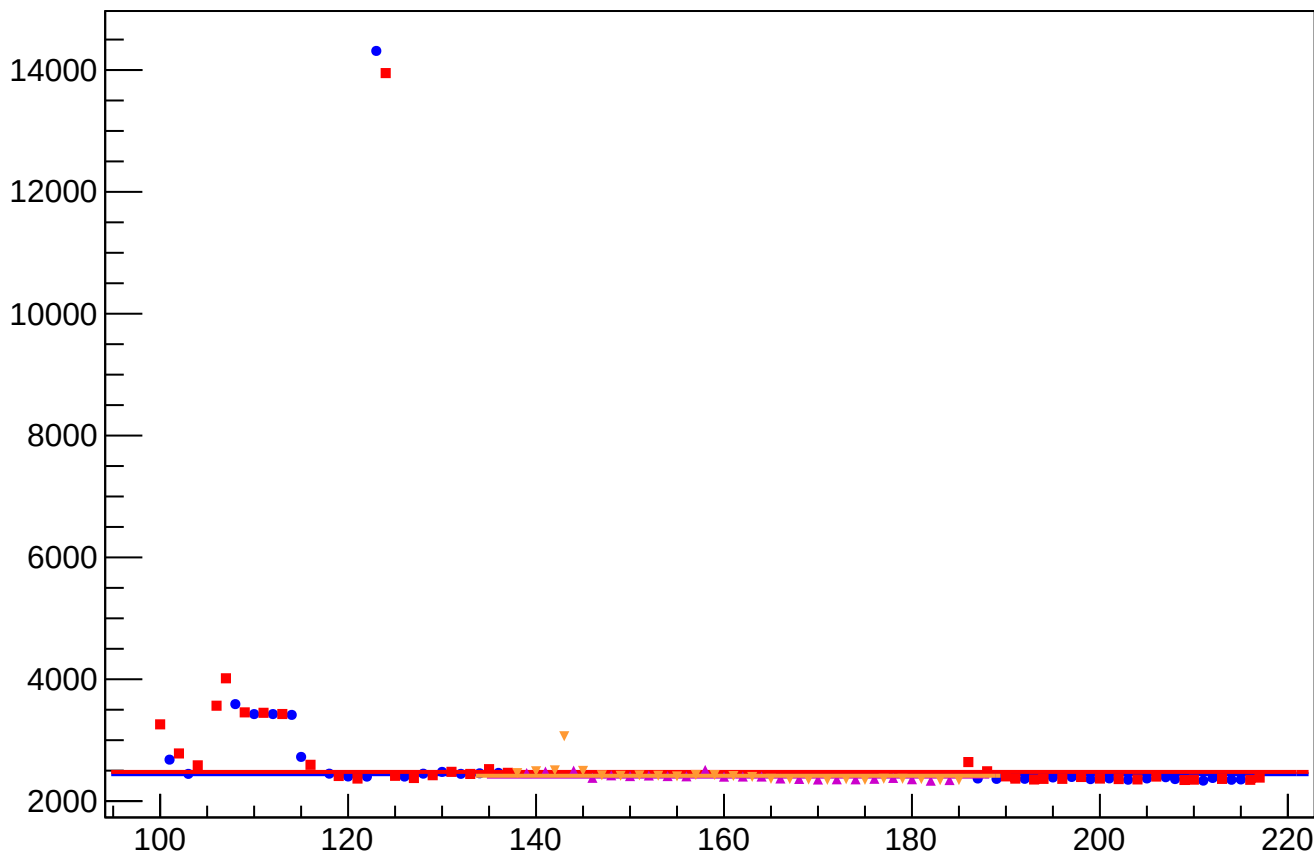
Right: 1544.193 $\pm$ 412.881 χ^2 /NDF: 66.5/67

In: 1910.947 $\pm$ 412.194 χ^2 /NDF: 52.5/54

Out: 1068.286 $\pm$ 403.592 χ^2 /NDF: 60.3/60

All: 1480.732 $\pm$ 288.376 χ^2 /NDF: 115.0/115

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2441.617 $\pm$ 0.417 χ^2 /NDF: 316236.6/31

Left Out: 2416.019 $\pm$ 0.399 χ^2 /NDF: 82636.1/24

Right Out: 2479.106 $\pm$ 0.409 χ^2 /NDF: 655755.9/35

Left In: 2401.422 $\pm$ 0.407 χ^2 /NDF: 13747.6/22

Left: 2408.873 $\pm$ 0.285 χ^2 /NDF: 97039.6/47

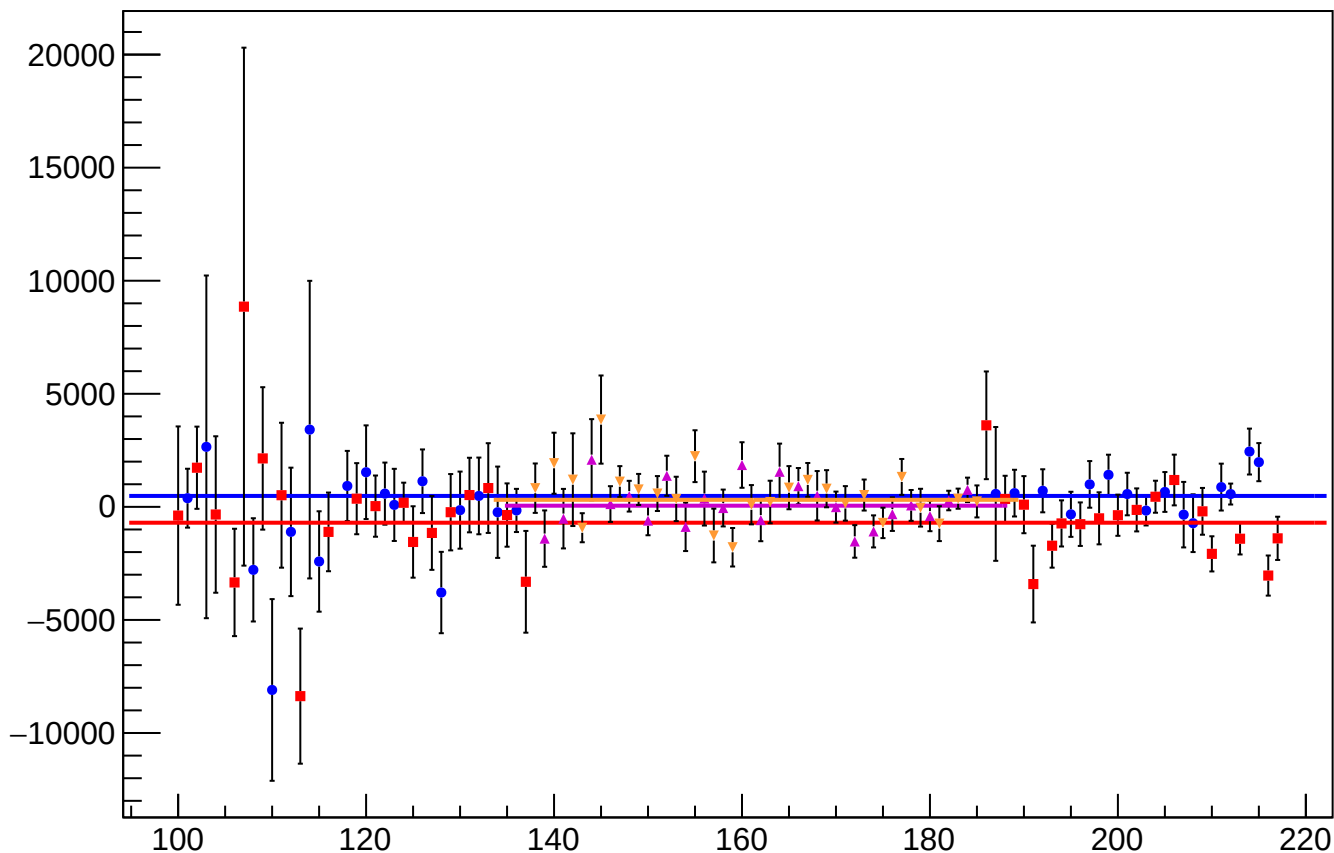
Right: 2460.761 $\pm$ 0.292 χ^2 /NDF: 976112.9/67

In: 2421.025 $\pm$ 0.291 χ^2 /NDF: 334735.9/54

Out: 2446.802 $\pm$ 0.285 χ^2 /NDF: 750601.7/60

All: 2434.185 $\pm$ 0.204 χ^2 /NDF: 1089330.8/11

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 483.507 $\pm$ 200.837 χ^2 /NDF: 27.3/31

Left Out: 310.873 $\pm$ 160.650 χ^2 /NDF:29.7/24

Right Out: -701.090 $\pm$ 203.994 χ^2 /NDF: 42.3/35

Left In: 51.454 $\pm$ 161.744 χ^2 /NDF:23.8/22

Left: 182.044 $\pm$ 113.982 χ^2 /NDF: 54.9/47

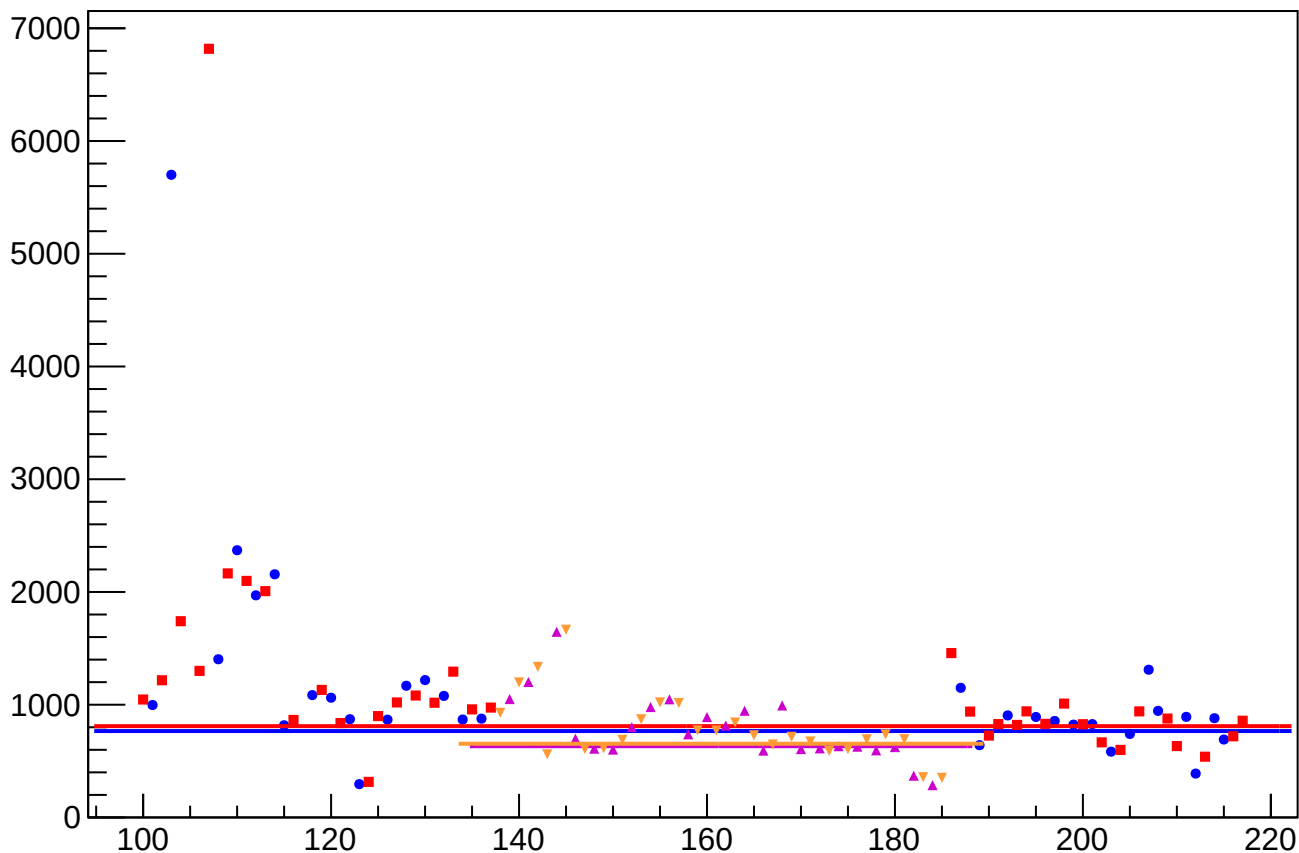
Right: -99.556 $\pm$ 143.116 χ^2 /NDF: 86.7/67

In: 221.432 $\pm$ 125.972 χ^2 /NDF:53.9/54

Out: -76.497 $\pm$ 126.211 χ^2 /NDF:87.2/60

All: 72.750 $\pm$ 89.160 χ^2 /NDF: 144.0/115

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 766.349 $\pm$ 0.142 χ^2 /NDF: 4539781.5/31

Left Out: 653.803 $\pm$ 0.114 χ^2 /NDF: 3254694.4/24

Right Out: 809.810 $\pm$ 0.144 χ^2 /NDF: 3856987.5/35

Left In: 632.053 $\pm$ 0.114 χ^2 /NDF: 3942853.4/22

Left: 643.002 $\pm$ 0.081 χ^2 /NDF: 7215752.9/47

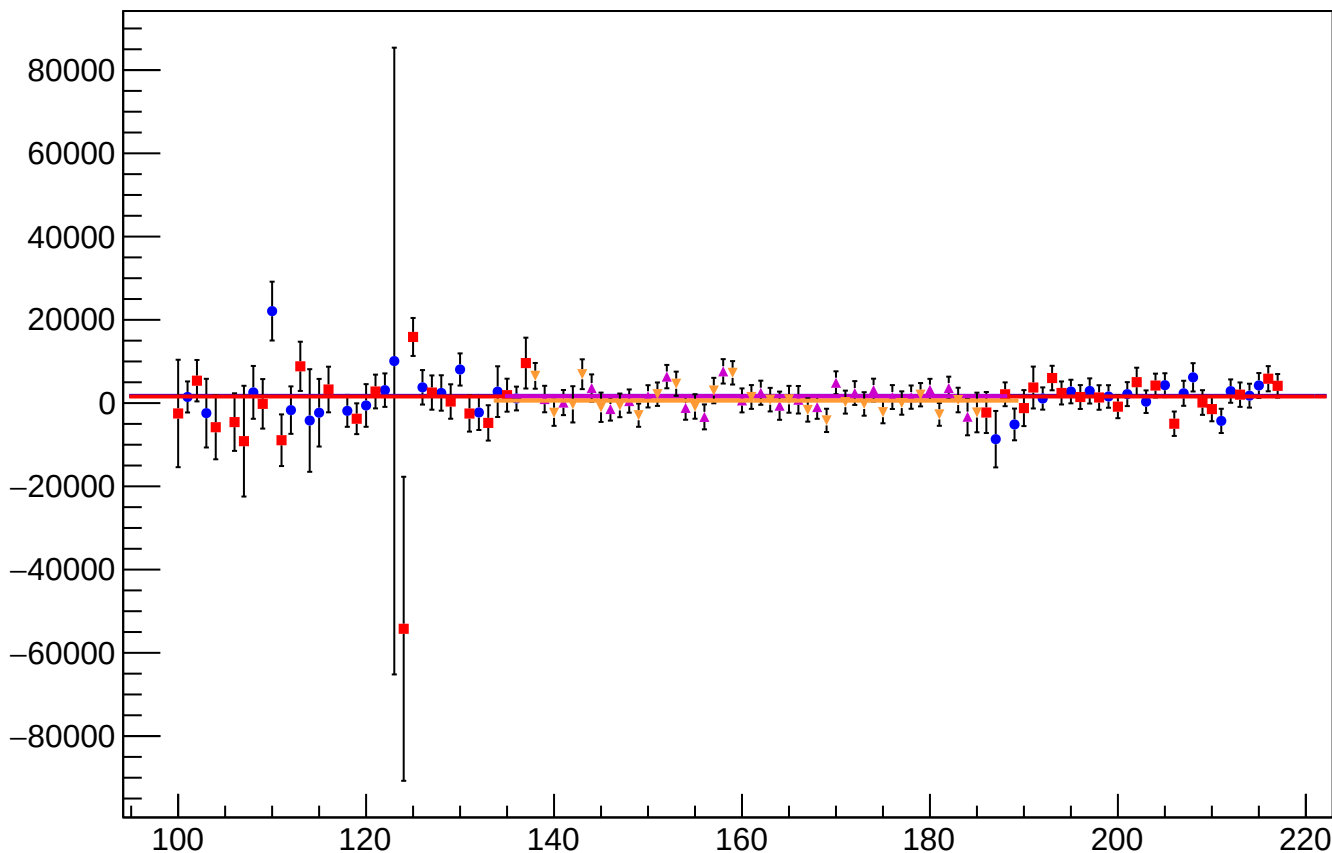
Right: 787.741 $\pm$ 0.101 χ^2 /NDF: 8442868.4/67

In: 684.887 $\pm$ 0.089 χ^2 /NDF: 9025078.0/54

Out: 713.521 $\pm$ 0.089 χ^2 /NDF: 7833653.3/60

All: 699.177 $\pm$ 0.063 χ^2 /NDF: 16910298.7/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1736.398+/-646.295 χ^2/NDF : 28.5/31

Left Out: 580.879+/-597.173 χ^2/NDF : 25.3/24

Right Out: 1586.173+/-635.338 χ^2/NDF : 42.3/35

Left In: 1679.572+/-610.111 χ^2/NDF : 18.2/22

Left: 1118.453+/-426.766 χ^2/NDF : 45.2/47

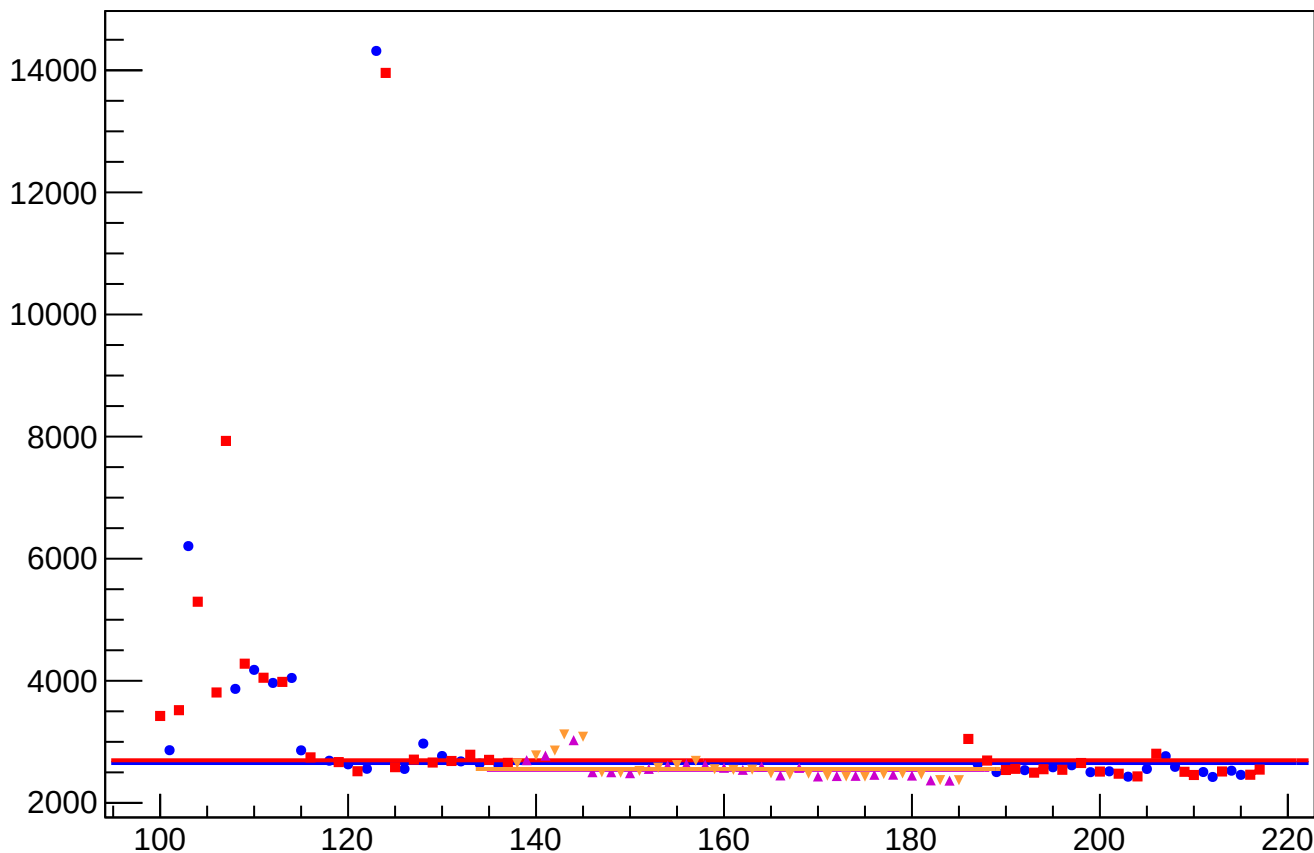
Right: 1660.001+/-453.076 χ^2/NDF : 70.8/67

In: 1706.350+/-443.654 χ^2/NDF : 46.7/54

Out: 1052.427+/-435.132 χ^2/NDF : 68.9/60

All: 1373.048+/-310.654 χ^2/NDF : 116.7/115

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2653.254+/-0.457 χ^2/NDF : 809361.6/31

Left Out: 2555.279+/-0.422 χ^2/NDF : 154743.6/24

Right Out: 2697.839+/-0.449 χ^2/NDF : 1295876.3/35

Left In: 2540.988+/-0.431 χ^2/NDF : 94756.7/22

Left: 2548.287+/-0.302 χ^2/NDF : 250060.8/47

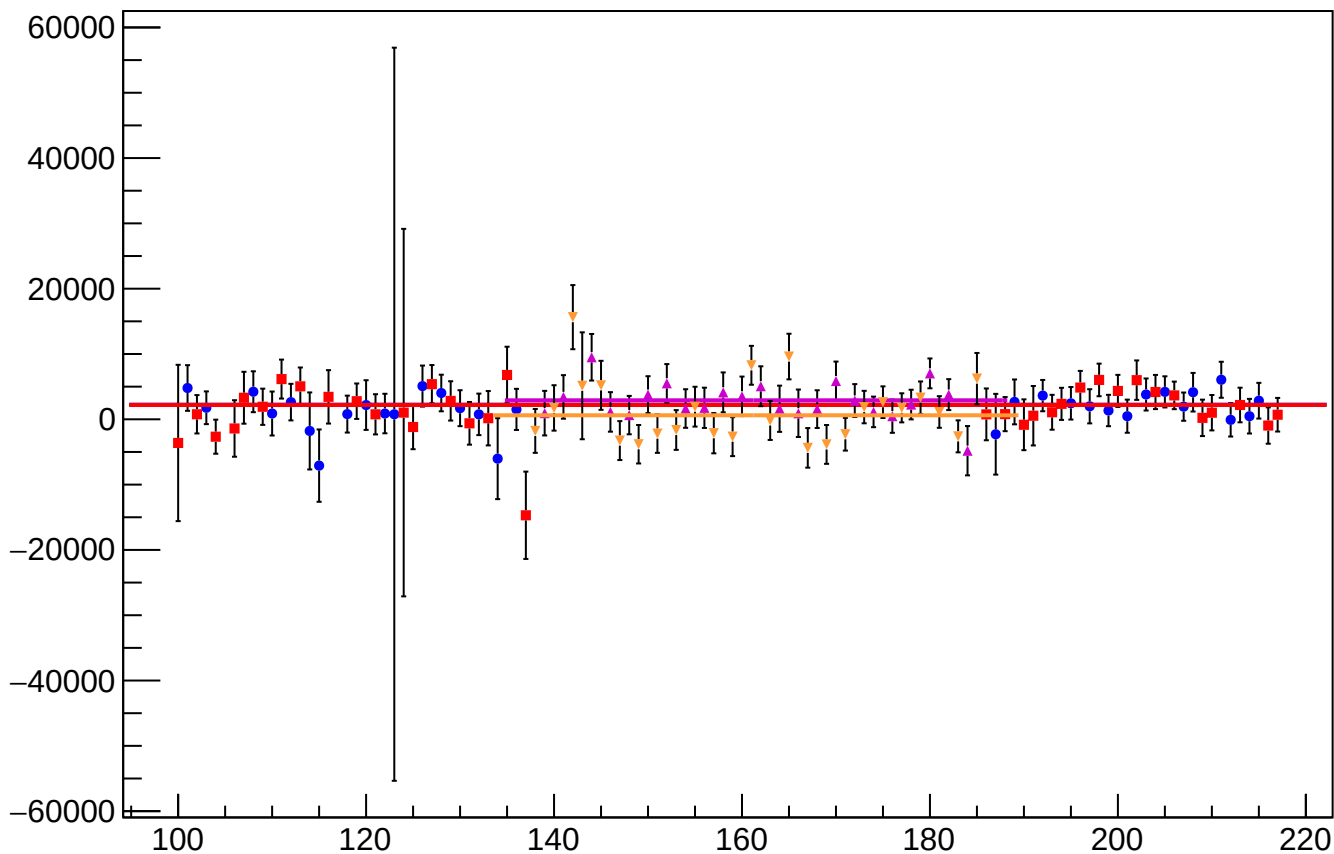
Right: 2675.927+/-0.320 χ^2/NDF : 2110078.3/67

In: 2593.890+/-0.314 χ^2/NDF : 936028.9/54

Out: 2622.149+/-0.308 χ^2/NDF : 1504083.1/60

All: 2608.293+/-0.220 χ^2/NDF : 2444247.8/11

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2235.677 $\pm$ 522.504 χ^2 /NDF: 14.5/31

Left Out: 614.867 $\pm$ 591.148 χ^2 /NDF: 45.2/24

Right Out: 2196.737 $\pm$ 508.350 χ^2 /NDF: 29.0/35

Left In: 2909.108 $\pm$ 599.673 χ^2 /NDF: 17.4/22

Left: 1745.562 $\pm$ 420.986 χ^2 /NDF: 70.0/47

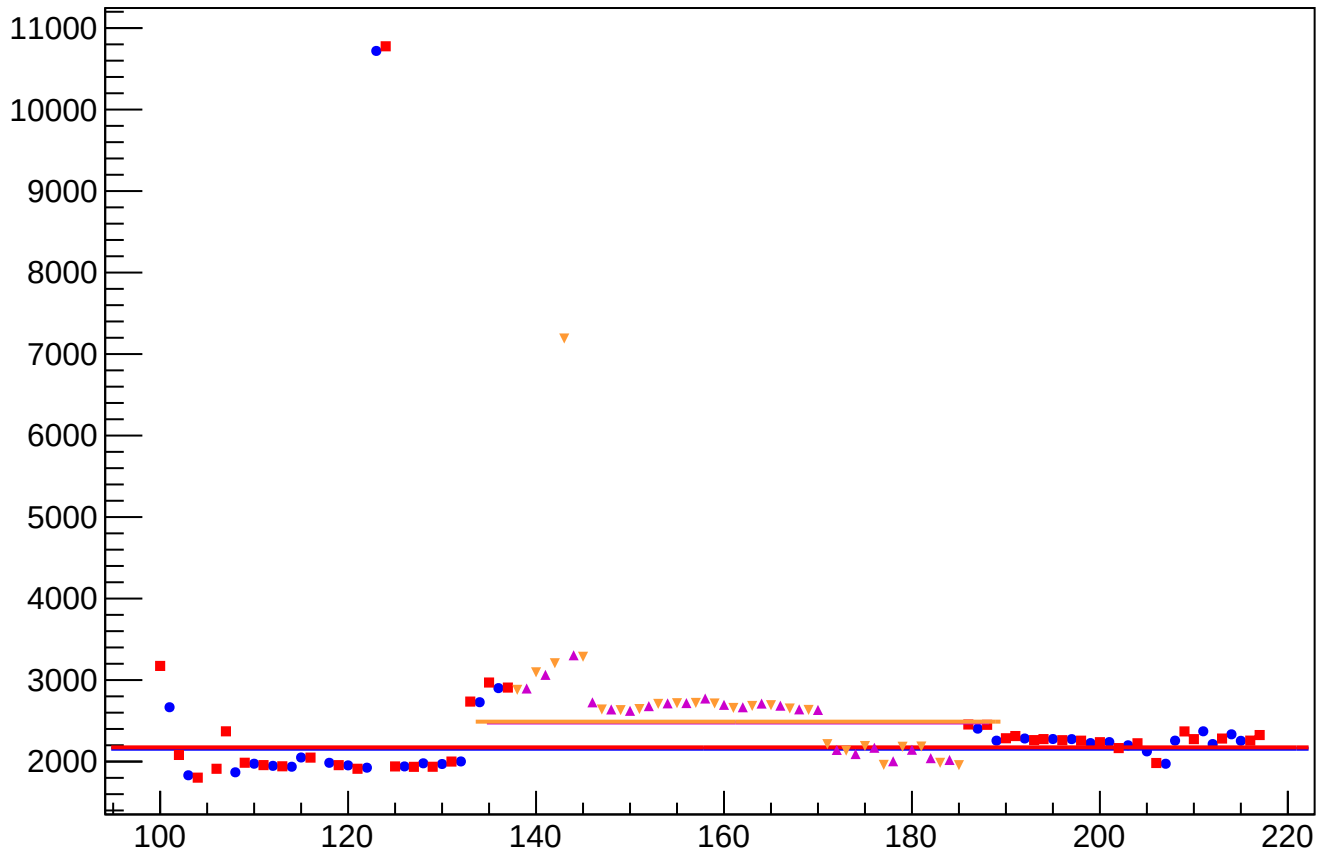
Right: 2215.672 $\pm$ 364.359 χ^2 /NDF: 43.5/67

In: 2526.300 $\pm$ 393.943 χ^2 /NDF: 32.6/54

Out: 1524.253 $\pm$ 385.435 χ^2 /NDF: 78.3/60

All: 2014.340 $\pm$ 275.502 χ^2 /NDF: 114.2/115

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2157.463+/-0.369 χ^2/NDF : 410815.5/31

Left Out: 2489.577+/-0.418 χ^2/NDF :1364203.3/24

Right Out: 2174.127+/-0.359 χ^2/NDF : 576535.3/35

Left In: 2479.348+/-0.424 χ^2/NDF :668398.2/22

Left: 2484.536+/-0.298 χ^2/NDF : 2032896.6/47

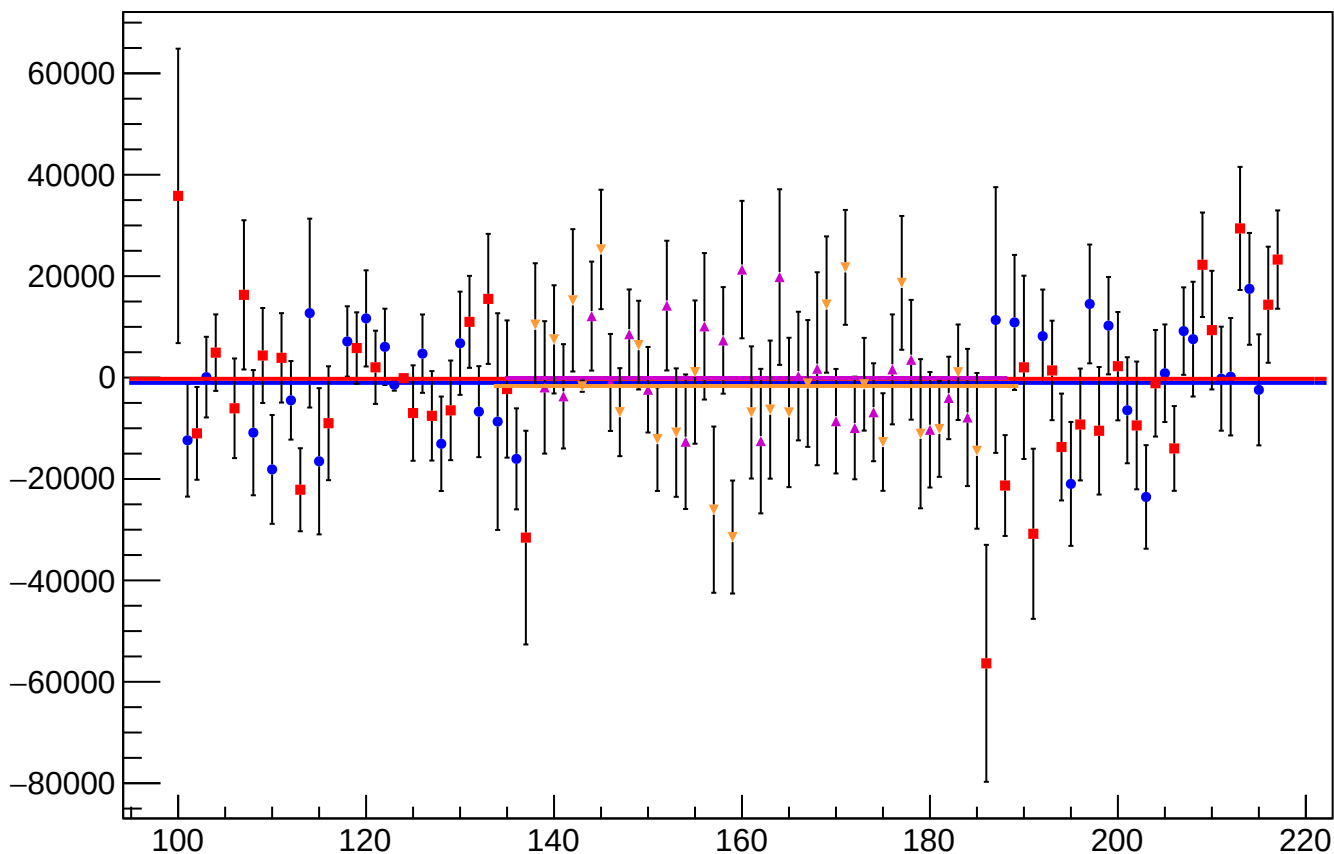
Right: 2166.024+/-0.258 χ^2/NDF : 988396.0/67

In: 2296.374+/-0.279 χ^2/NDF :1406775.0/54

Out: 2308.230+/-0.273 χ^2/NDF :2268136.6/60

All: 2302.432+/-0.195 χ^2/NDF : 3675837.1/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1039.418+/-986.707 χ^2/NDF : 33.7/31

Left Out: -1665.417+/-993.060 χ^2/NDF : 32.4/24

Right Out: -246.729+/-674.049 χ^2/NDF : 59.7/35

Left In: -80.274+/-2331.531 χ^2/NDF : 13.8/22

Left: -1422.008+/-913.639 χ^2/NDF : 46.6/47

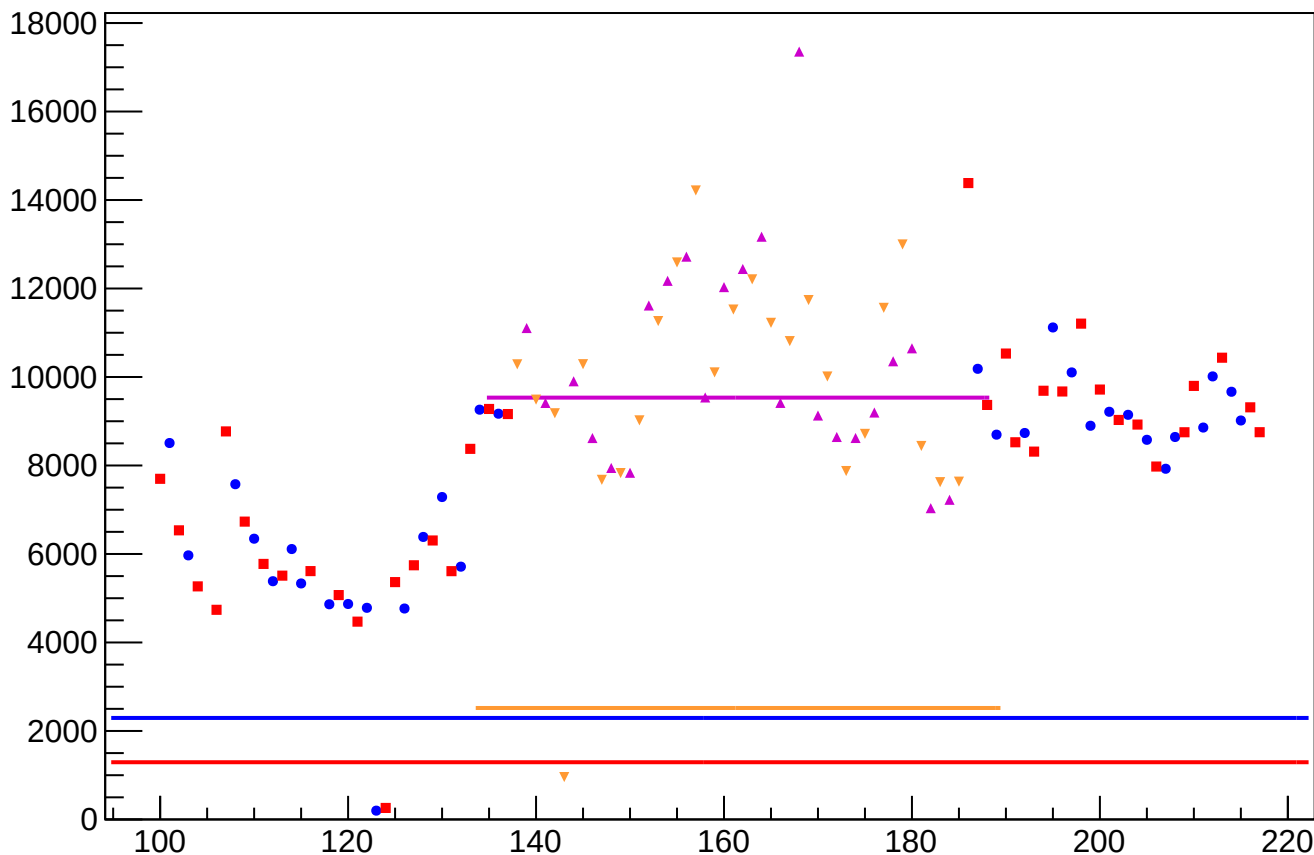
Right: -498.948+/-556.578 χ^2/NDF : 93.9/67

In: -893.729+/-908.684 χ^2/NDF : 47.7/54

Out: -694.188+/-557.710 χ^2/NDF : 93.5/60

All: -748.787+/-475.324 χ^2/NDF : 141.2/115

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2294.236+/-0.698

χ^2/NDF : 23685988.1/31

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right: 1611.767+/-0.394

χ^2/NDF : 54853182.8/67

Right Out: 1293.281+/-0.477

χ^2/NDF : 29763893.7/35

In: 3393.854+/-0.643

χ^2/NDF : 41355483.1/54

Out: 1679.991+/-0.394

χ^2/NDF : 55493141.5/60

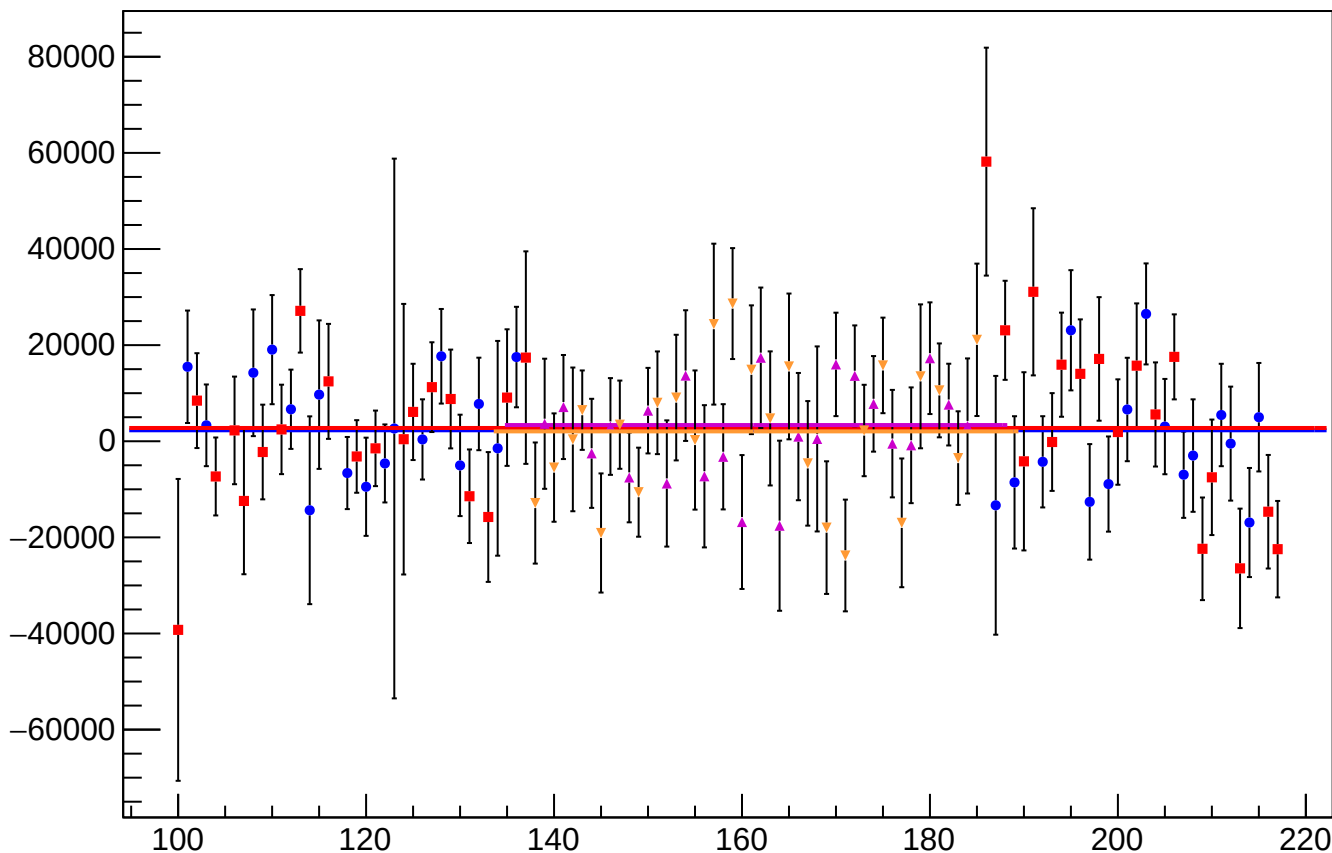
Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2148.944+/-0.336

χ^2/NDF : 102016572.6

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2282.588+/-1906.944 χ^2/NDF : 31.3/31

Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24

Right Out: 2763.244+/-1844.110 χ^2/NDF : 60.4/35

Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47

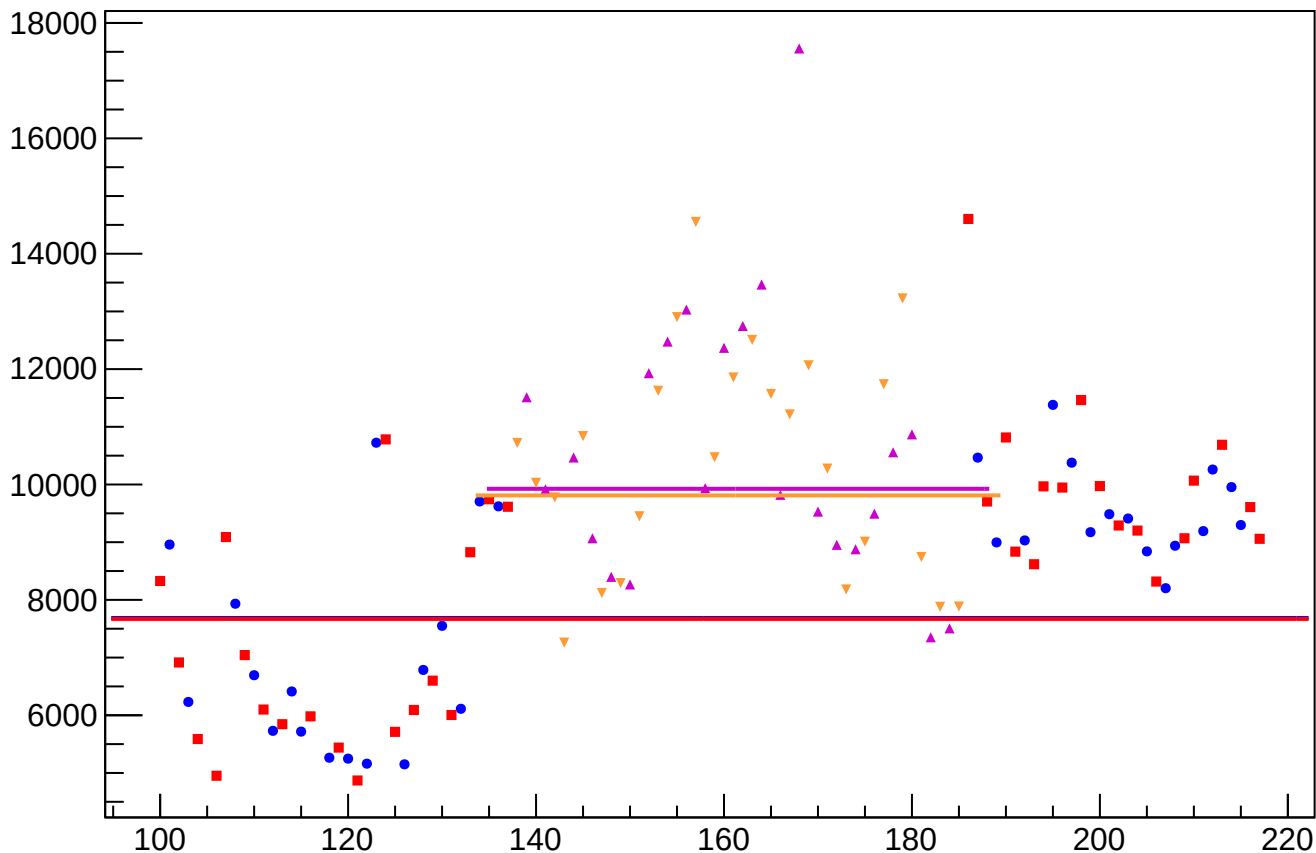
Right: 2530.965+/-1325.640 χ^2/NDF : 91.7/67

In: 2699.195+/-1498.573 χ^2/NDF :44.5/54

Out: 2491.331+/-1446.844 χ^2/NDF :91.2/60

All: 2591.614+/-1040.880 χ^2/NDF : 135.7/115

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7686.204+/-1.348

χ^2/NDF : 1934412.3/31

Left: 9866.039+/-1.189 χ^2/NDF : 2427693.8/47

Right: 7677.802+/-0.937 χ^2/NDF : 4318497.8/67

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

In: 8542.508+/-1.060 χ^2/NDF : 4200559.8/54

Right Out: 7669.945+/-1.304

χ^2/NDF : 2384010.4/35

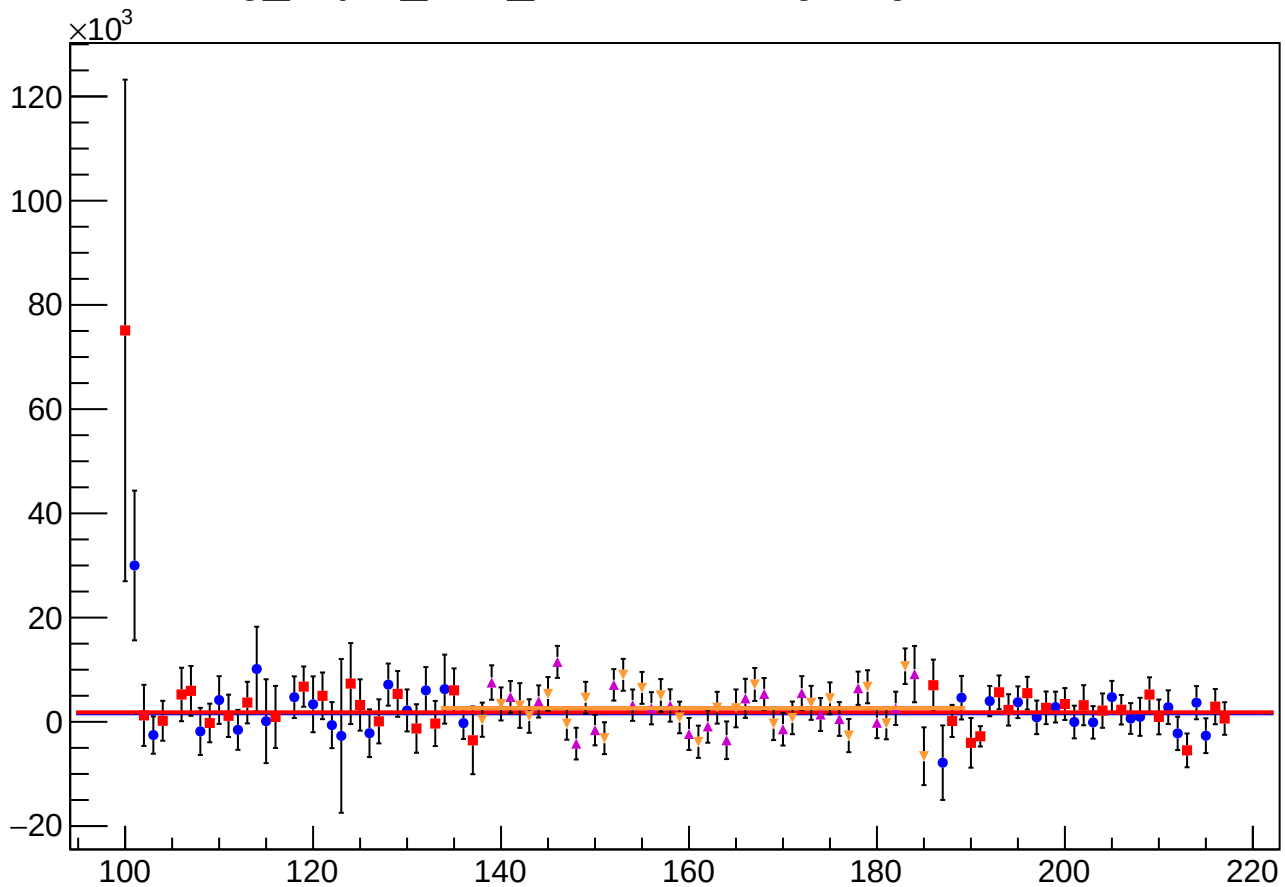
Out: 8493.021+/-1.023 χ^2/NDF : 4634368.6/60

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8516.895+/-0.736 χ^2/NDF : 8836057.2/11

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1635.986 $\pm$ 678.155 χ^2/NDF : 22.4/31

Left Out: 2635.833 $\pm$ 646.121 χ^2/NDF : 35.1/24

Right Out: 1827.539 $\pm$ 621.710 χ^2/NDF : 28.4/35

Left In: 2638.607 $\pm$ 664.569 χ^2/NDF : 35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2/NDF : 70.3/47

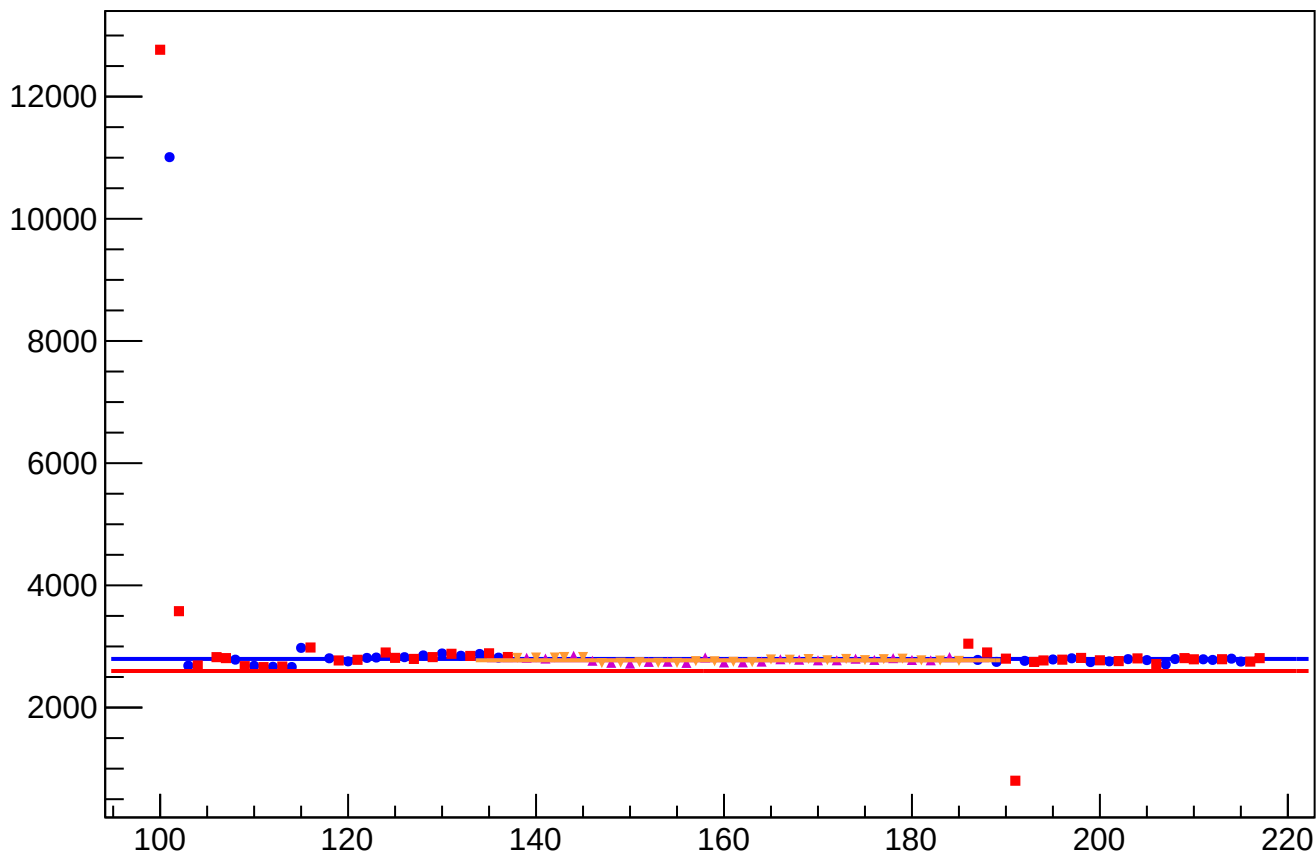
Right: 1740.065 $\pm$ 458.273 χ^2/NDF : 50.9/67

In: 2147.440 $\pm$ 474.652 χ^2/NDF : 58.8/54

Out: 2216.129 $\pm$ 447.997 χ^2/NDF : 64.3/60

All: 2183.767 $\pm$ 325.797 χ^2/NDF : 123.1/115

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2795.734+/-0.480 χ^2/NDF : 667034.5/31

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2598.312+/-0.440 χ^2/NDF : 2036679.0/35

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

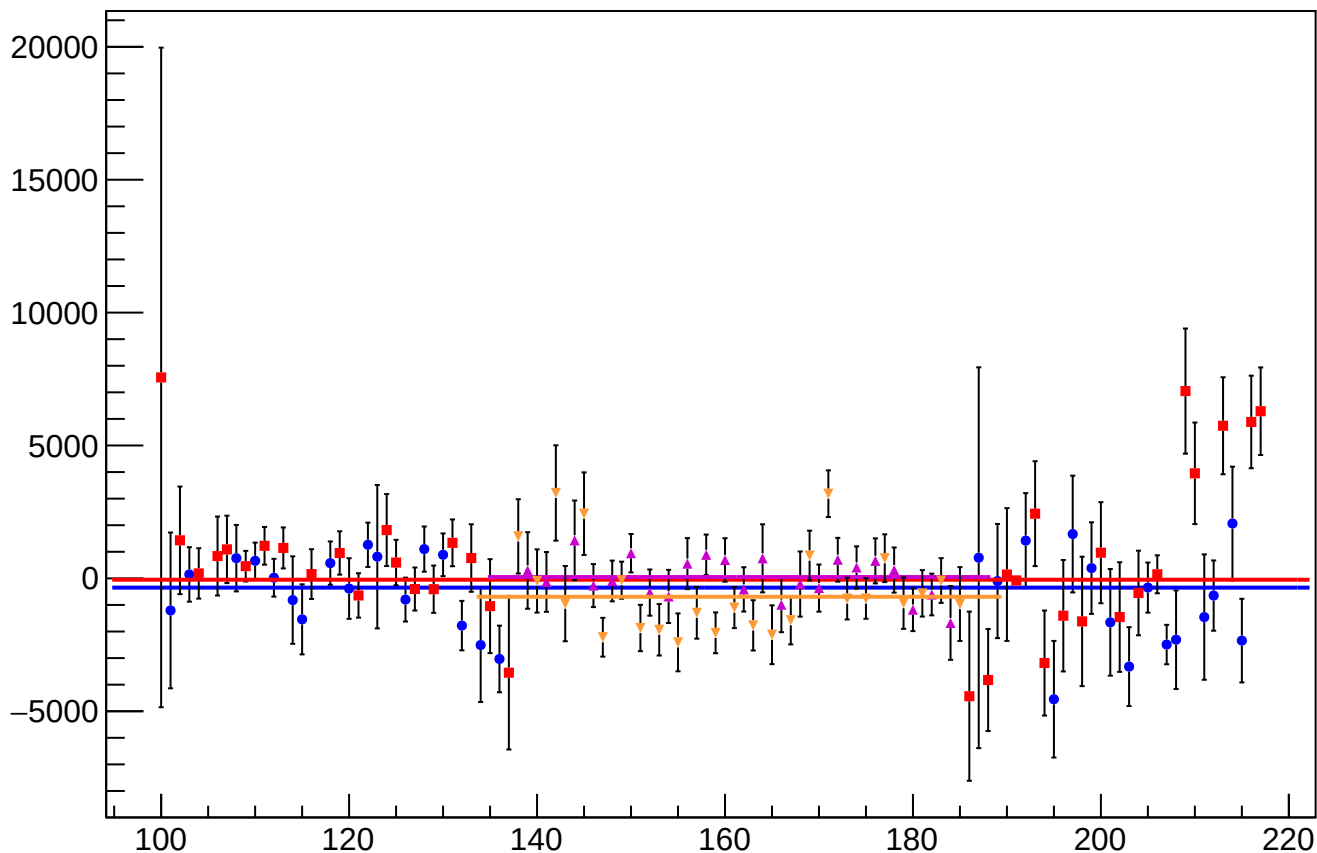
Right: 2688.466+/-0.324 χ^2/NDF : 2795809.1/67

In: 2784.666+/-0.336 χ^2/NDF : 673064.3/54

Out: 2682.637+/-0.317 χ^2/NDF : 2117827.6/60

All: 2730.706+/-0.230 χ^2/NDF : 2839765.3/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -348.176 ± 205.744 $\chi^2/\text{NDF}: 45.9/31$

Left Out: -692.808 ± 187.297 $\chi^2/\text{NDF}: 56.0/24$

Right Out: -50.602 ± 37.784 $\chi^2/\text{NDF}: 80.2/35$

Left In: 49.244 ± 189.190 $\chi^2/\text{NDF}: 13.6/22$

Left: -325.512 ± 133.103 $\chi^2/\text{NDF}: 77.4/47$

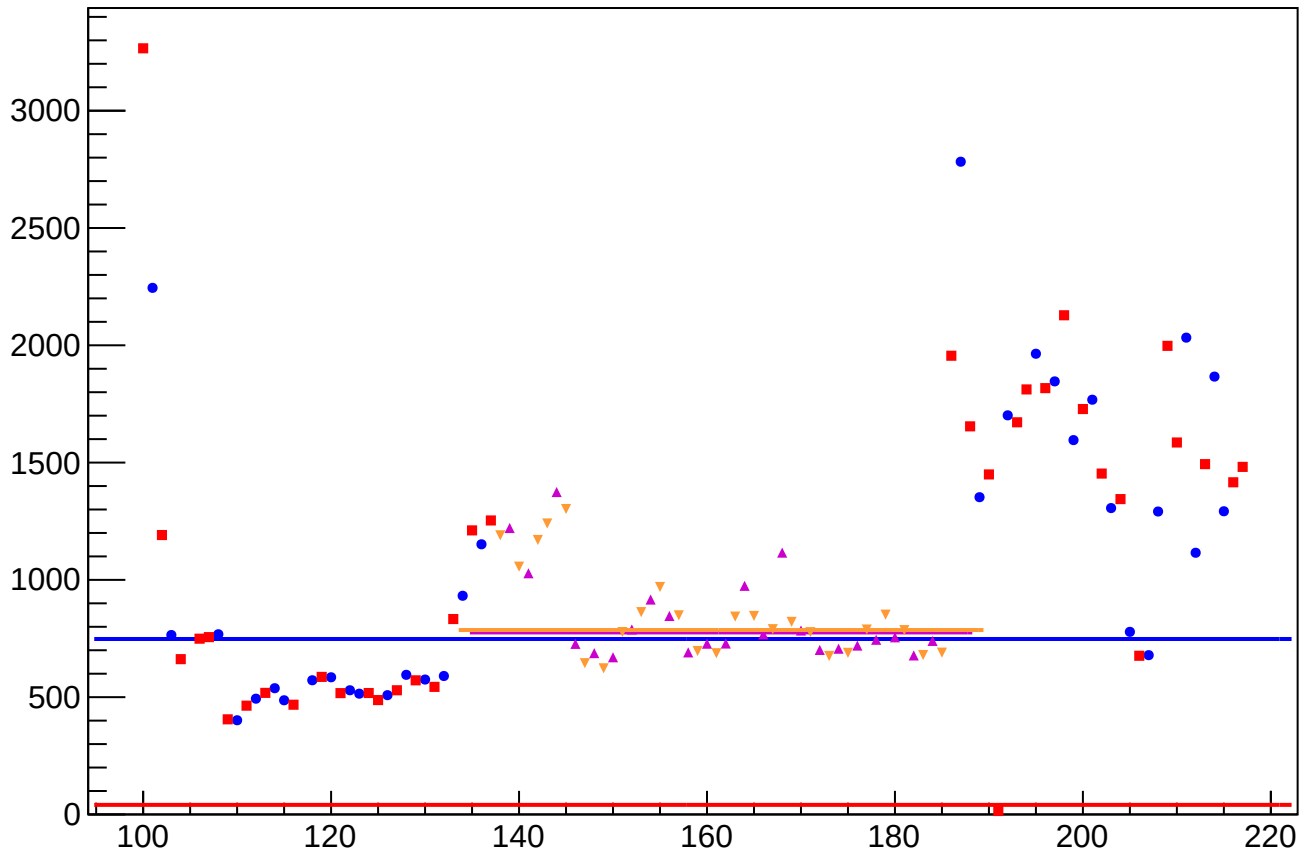
Right: -60.310 ± 37.162 $\chi^2/\text{NDF}: 128.2/67$

In: -132.837 ± 139.263 $\chi^2/\text{NDF}: 61.6/54$

Out: -75.715 ± 37.037 $\chi^2/\text{NDF}: 147.5/60$

All: -79.488 ± 35.793 $\chi^2/\text{NDF}: 209.2/115$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 747.961+/-0.145 χ^2/NDF : 7303335.2/31

Left Out: 786.173+/-0.132 χ^2/NDF :1249536.1/24

Right Out: 40.875+/-0.027 χ^2/NDF : 33616349.9/35

Left In: 775.930+/-0.134 χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

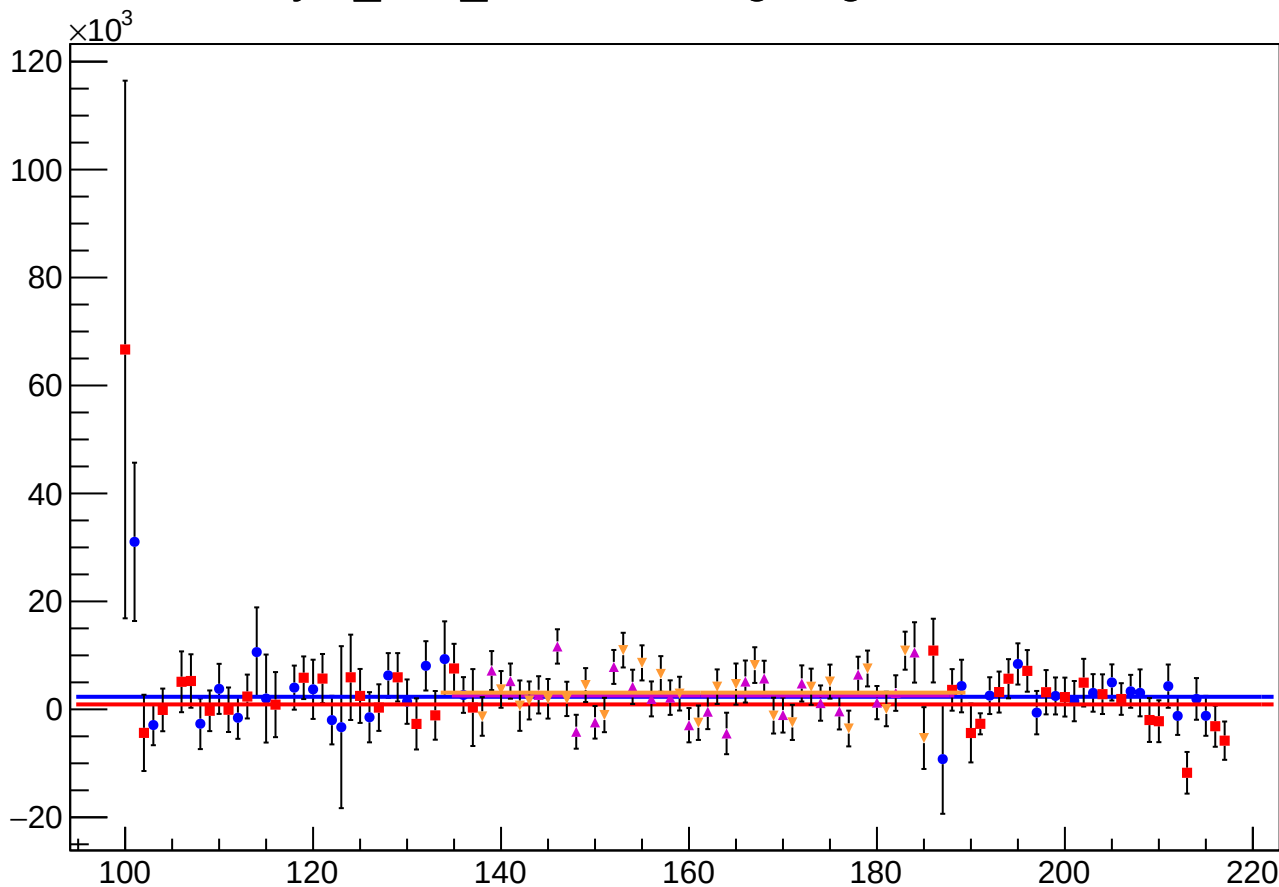
Right: 63.943+/-0.026 χ^2/NDF : 63771119.8/67

In: 763.116+/-0.098 χ^2/NDF :8380128.0/54

Out: 70.019+/-0.026 χ^2/NDF :65295992.4/60

All: 115.804+/-0.025 χ^2/NDF : 119942744.7/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2326.002 $\pm$ 750.626 χ^2 /NDF: 22.1/31

Left Out: 3094.826 $\pm$ 678.510 χ^2 /NDF: 38.7/24

Right Out: 915.583 $\pm$ 684.670 χ^2 /NDF: 42.0/35

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF: 35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

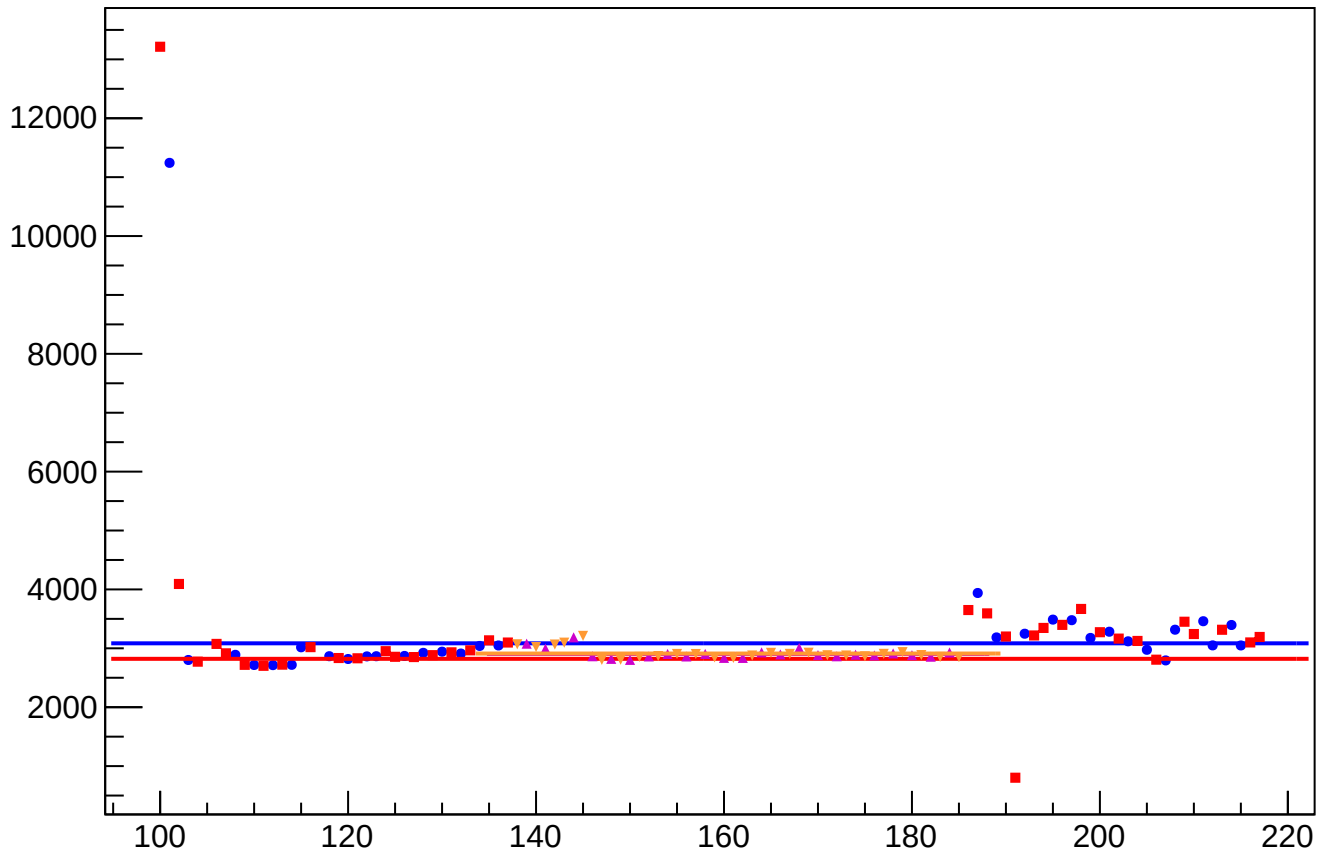
Right: 1556.117 $\pm$ 505.848 χ^2 /NDF: 66.0/67

In: 2458.950 $\pm$ 510.286 χ^2 /NDF: 57.8/54

Out: 2015.052 $\pm$ 481.942 χ^2 /NDF: 85.7/60

All: 2224.331 $\pm$ 350.376 χ^2 /NDF: 144.0/115

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3084.807+/-0.531 χ^2/NDF : 822045.5/31

Left Out: 2911.226+/-0.480 χ^2/NDF :36644.3/24

Right Out: 2821.501+/-0.484 χ^2/NDF : 2843359.5/35

Left In: 2903.411+/-0.492 χ^2/NDF :28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

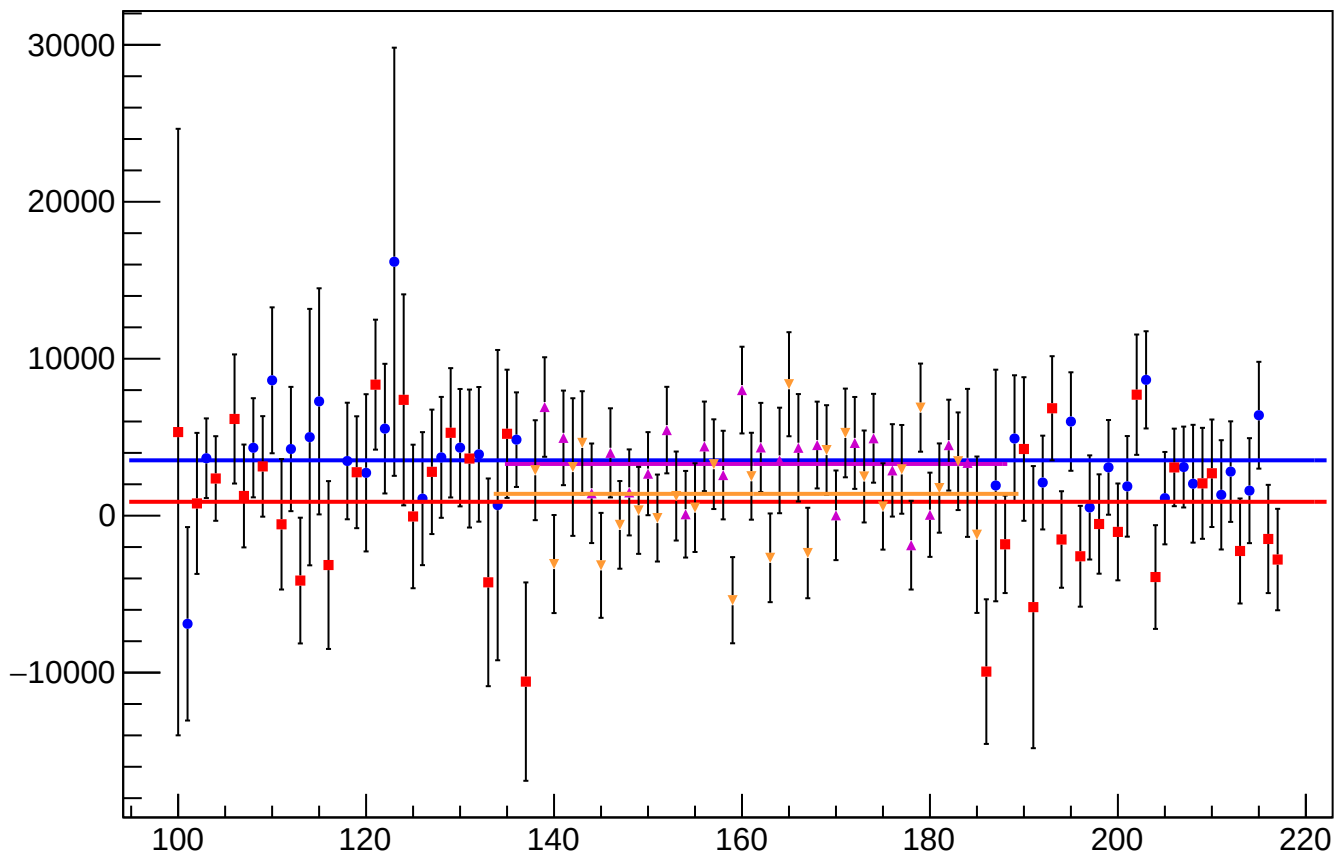
Right: 2941.080+/-0.358 χ^2/NDF : 3799737.2/67

In: 2987.242+/-0.361 χ^2/NDF :913704.7/54

Out: 2866.769+/-0.341 χ^2/NDF :2897332.5/60

All: 2923.567+/-0.248 χ^2/NDF : 3869957.2/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3526.507 $\pm$ 650.954 χ^2 /NDF: 13.5/31

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF:29.2/24

Right Out: 884.014 $\pm$ 626.144 χ^2 /NDF: 38.1/35

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

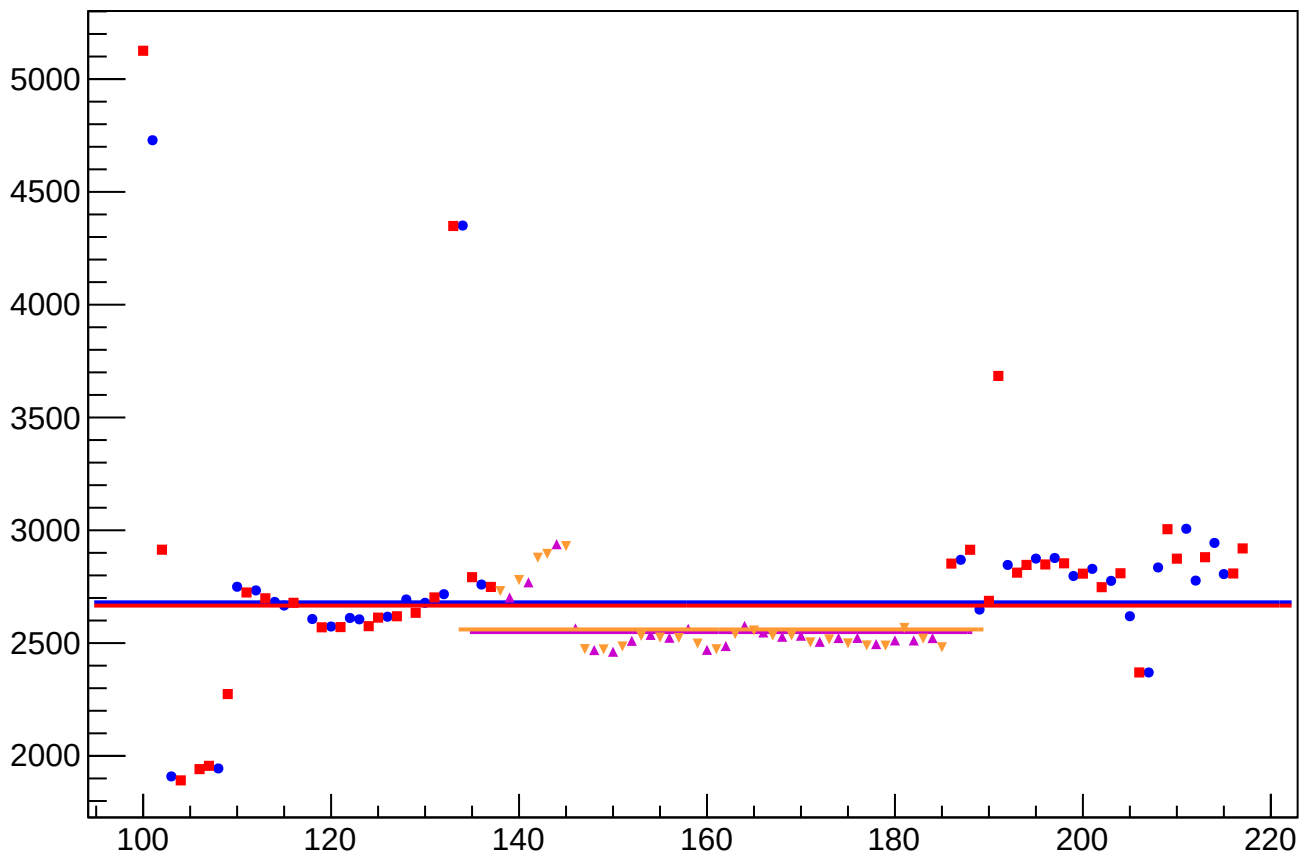
Right: 2153.946 $\pm$ 451.267 χ^2 /NDF: 60.1/67

In: 3403.436 $\pm$ 445.106 χ^2 /NDF:28.4/54

Out: 1149.405 $\pm$ 431.895 χ^2 /NDF:67.6/60

All: 2242.474 $\pm$ 309.961 χ^2 /NDF: 109.2/115

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2680.605 $\pm$ 0.460 χ^2 /NDF: 675956.9/31

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2666.226 $\pm$ 0.443 χ^2 /NDF: 678652.1/35

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

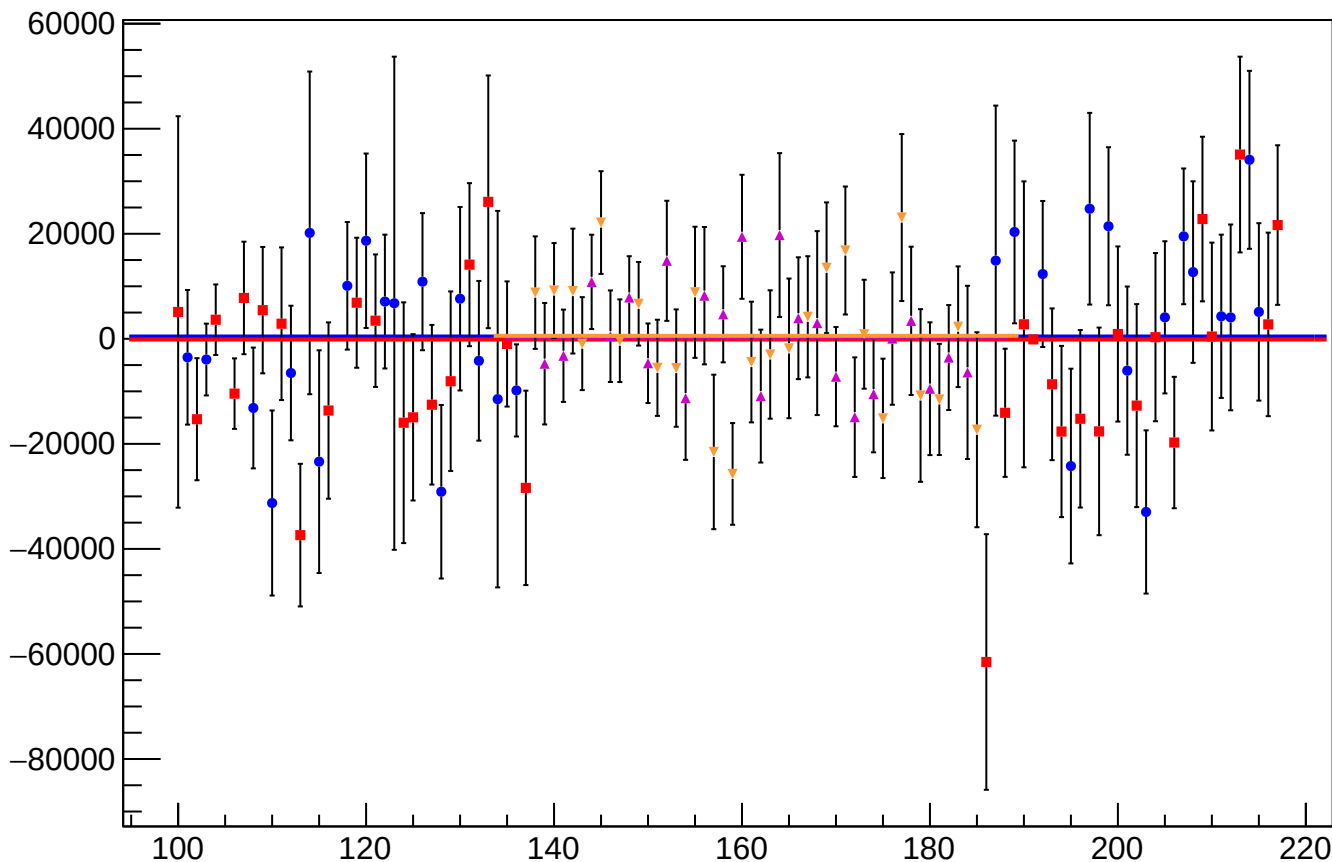
Right: 2673.136 $\pm$ 0.319 χ^2 /NDF: 1355115.9/67

In: 2610.462 $\pm$ 0.315 χ^2 /NDF: 774836.0/54

Out: 2610.819 $\pm$ 0.305 χ^2 /NDF: 795297.8/60

All: 2610.646 $\pm$ 0.219 χ^2 /NDF: 1570134.5/11

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 439.420 $\pm$ 2564.693 χ^2 /NDF: 34.3/31

Left Out: 572.477 $\pm$ 2184.376 χ^2 /NDF:28.2/24

Right Out: -134.348 $\pm$ 194.877 χ^2 /NDF: 41.9/35

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

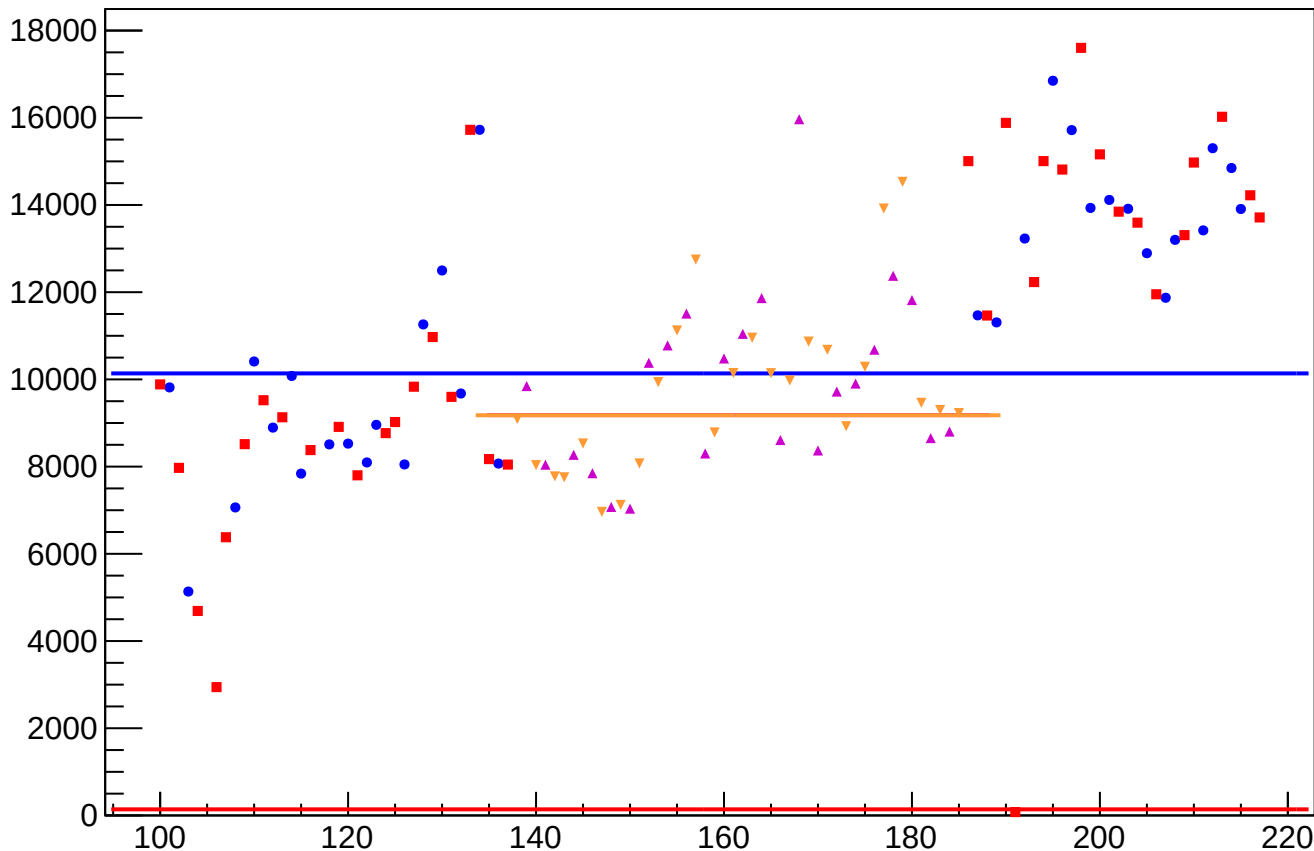
Right: -131.054 $\pm$ 194.317 χ^2 /NDF: 76.2/67

In: 346.317 $\pm$ 1688.320 χ^2 /NDF:49.9/54

Out: -128.766 $\pm$ 194.106 χ^2 /NDF:70.2/60

All: -122.569 $\pm$ 192.836 χ^2 /NDF: 120.2/115

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10137.297 $\pm$ 1.814

χ^2 /NDF: 3239671.6/31

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right Out: 140.023 $\pm$ 0.138

χ^2 /NDF: 35722179.7/35

Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Right: 197.412 $\pm$ 0.137

χ^2 /NDF: 69176830.0/67

In: 9595.555 $\pm$ 1.194

χ^2 /NDF: 4633622.4/54

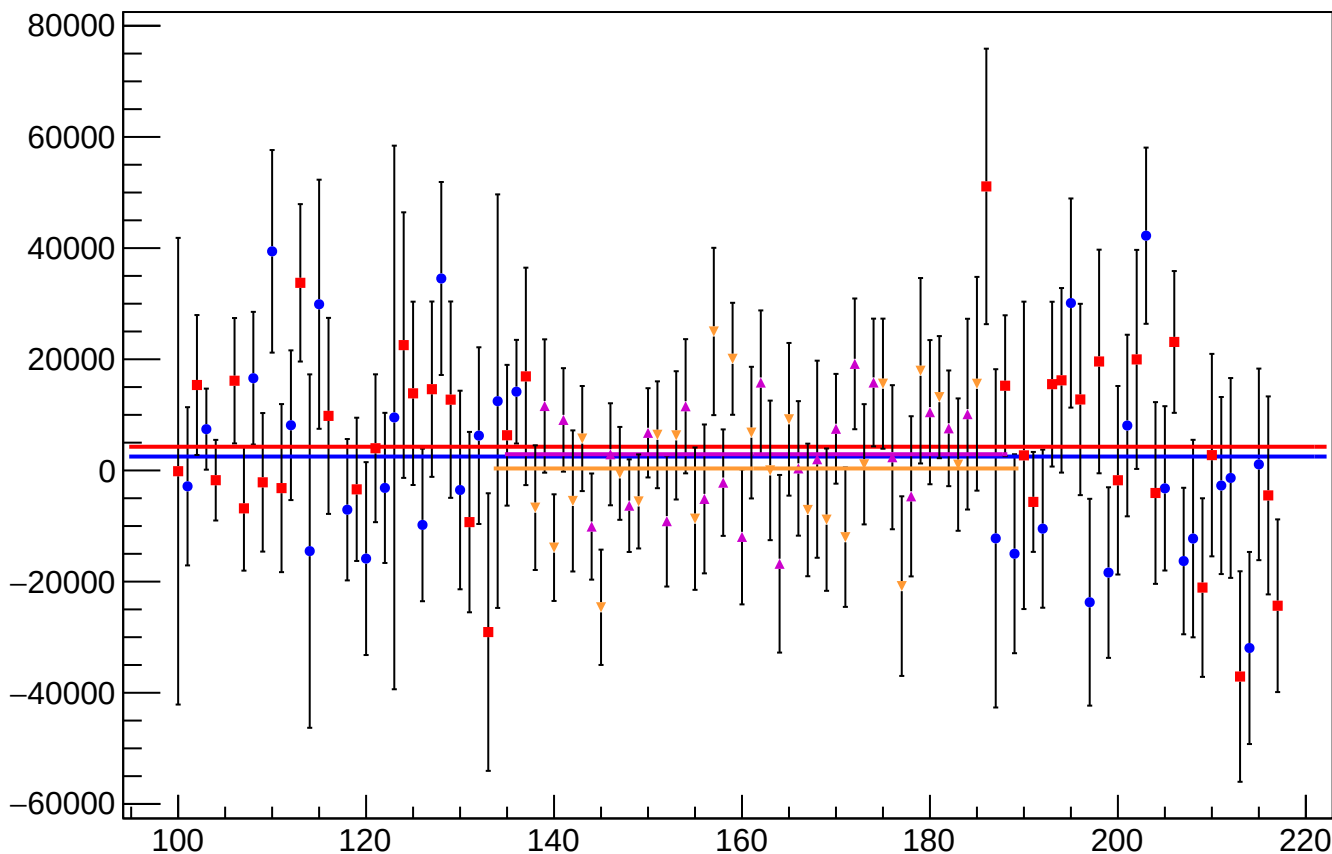
Out: 211.387 $\pm$ 0.137

χ^2 /NDF: 70864401.0/60

All: 333.810 $\pm$ 0.136

χ^2 /NDF: 136481039.3/136

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2499.587+/-2675.483 χ^2/NDF : 37.4/31

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 4265.012+/-2441.360 χ^2/NDF : 34.9/35

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

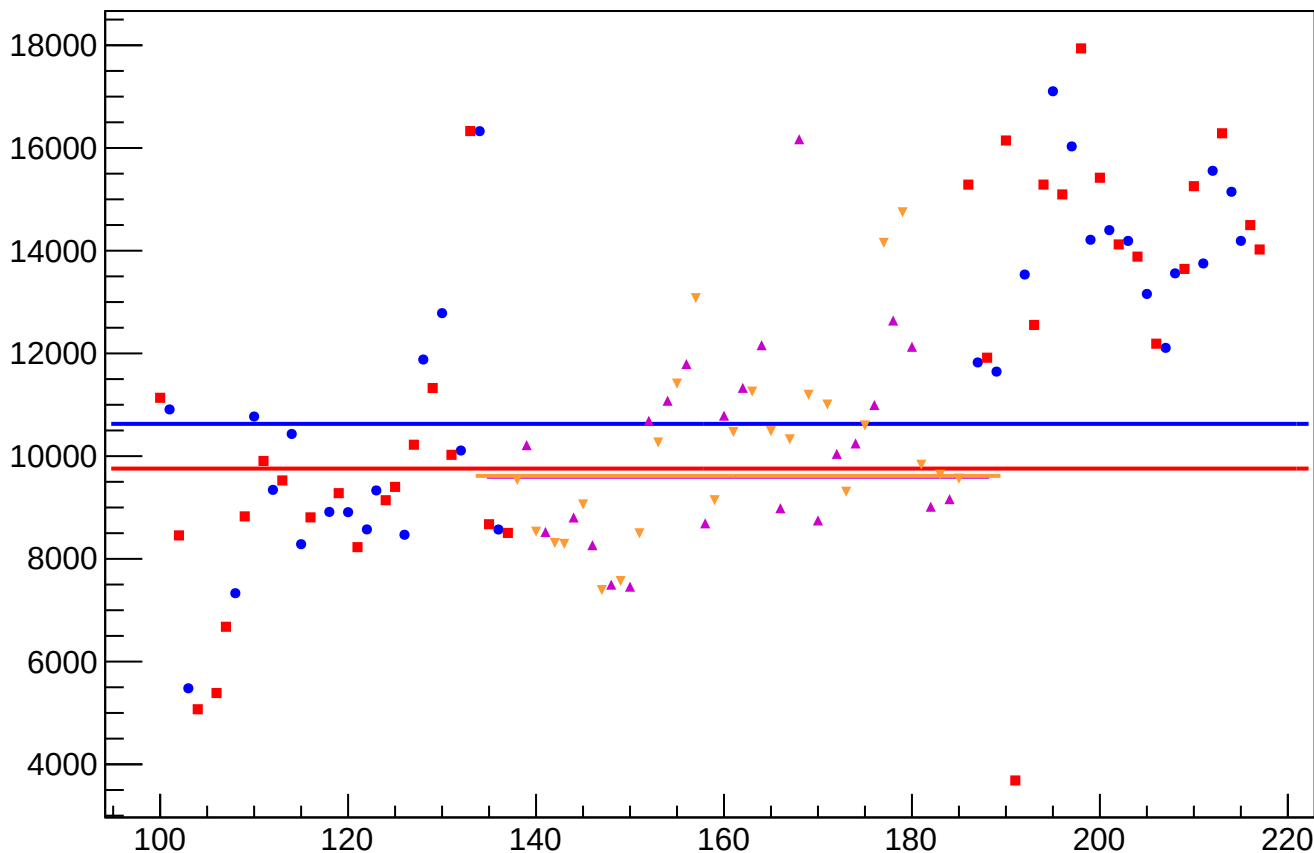
Right: 3462.908+/-1803.403 χ^2/NDF : 72.5/67

In: 2736.993+/-1760.715 χ^2/NDF : 52.3/54

Out: 2178.349+/-1666.987 χ^2/NDF : 62.5/60

All: 2442.407+/-1210.517 χ^2/NDF : 114.9/115

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10628.429+/-1.892 χ^2/NDF : 2932826.7/31

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 9757.965+/-1.726 χ^2/NDF : 4882113.4/35

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

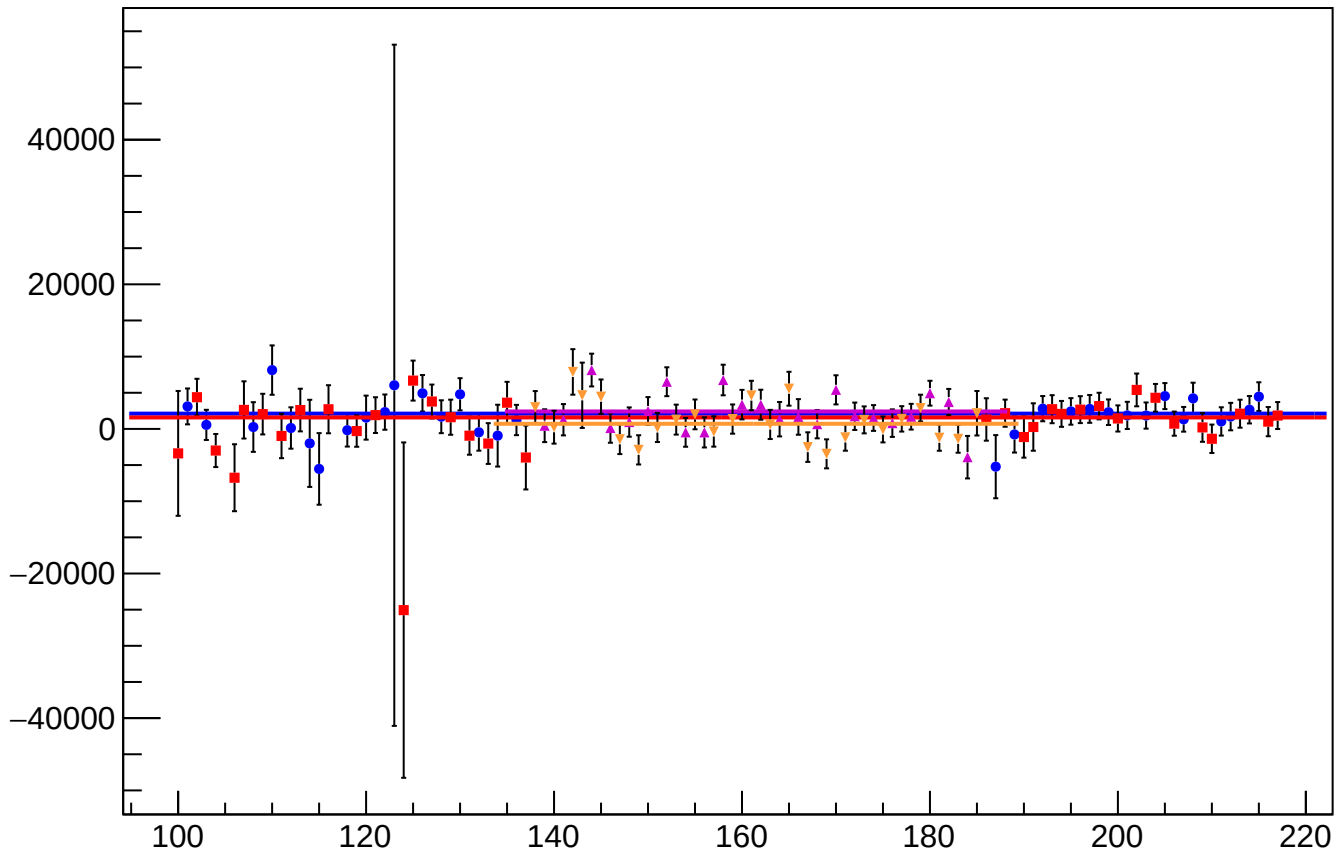
Right: 10153.440+/-1.275 χ^2/NDF : 7930460.8/67

In: 10044.565+/-1.245 χ^2/NDF : 4183006.9/54

Out: 9682.321+/-1.179 χ^2/NDF : 5897376.4/60

All: 9853.543+/-0.856 χ^2/NDF : 10125024.5/121

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2114.119+/-402.803 χ^2/NDF : 22.3/31

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1586.150+/-394.465 χ^2/NDF : 31.5/35

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

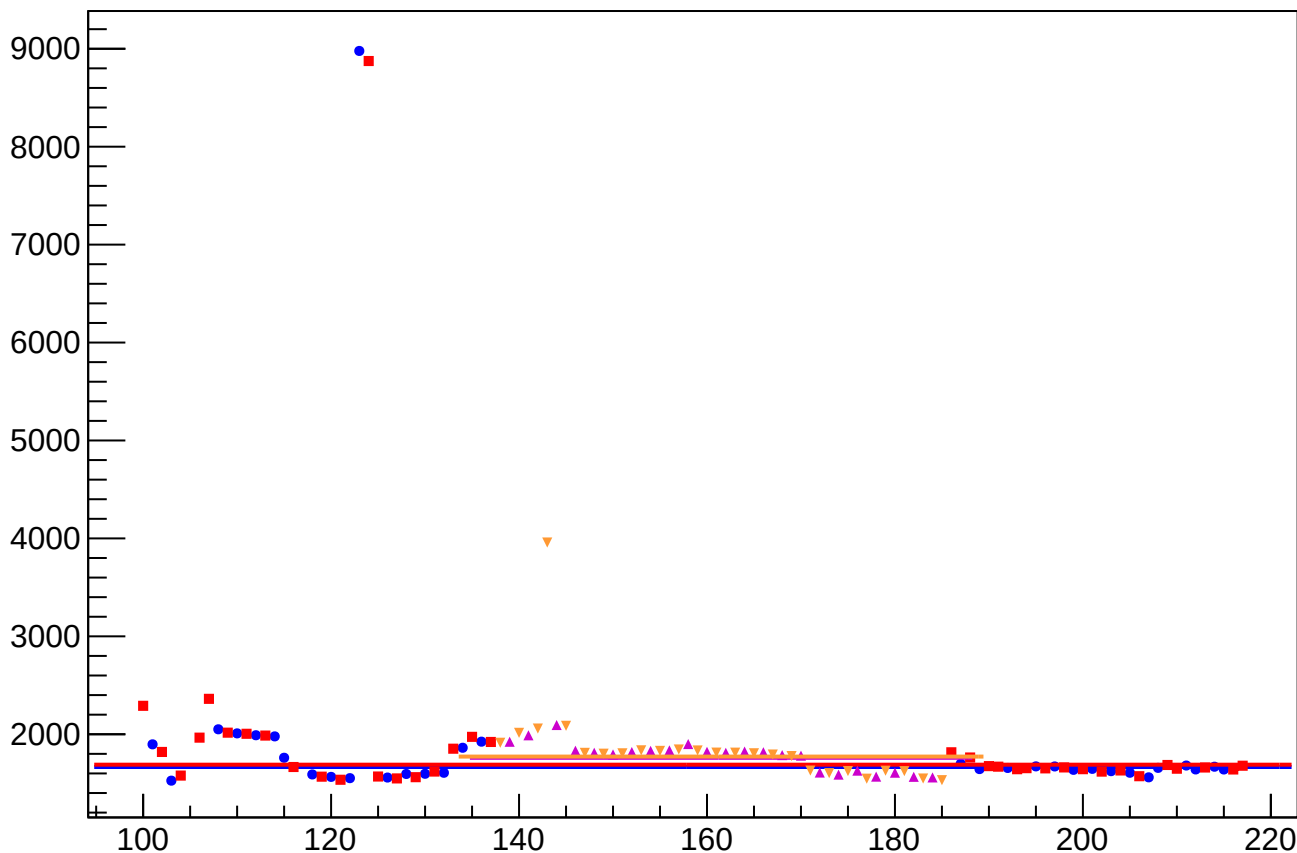
Right: 1844.614+/-281.831 χ^2/NDF : 54.6/67

In: 2256.919+/-291.858 χ^2/NDF : 56.5/54

Out: 1172.651+/-286.687 χ^2/NDF : 68.6/60

All: 1705.094+/-204.522 χ^2/NDF : 132.2/115

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1665.725+/-0.285 χ^2/NDF : 216555.7/31

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1689.331+/-0.278 χ^2/NDF : 439466.2/35

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

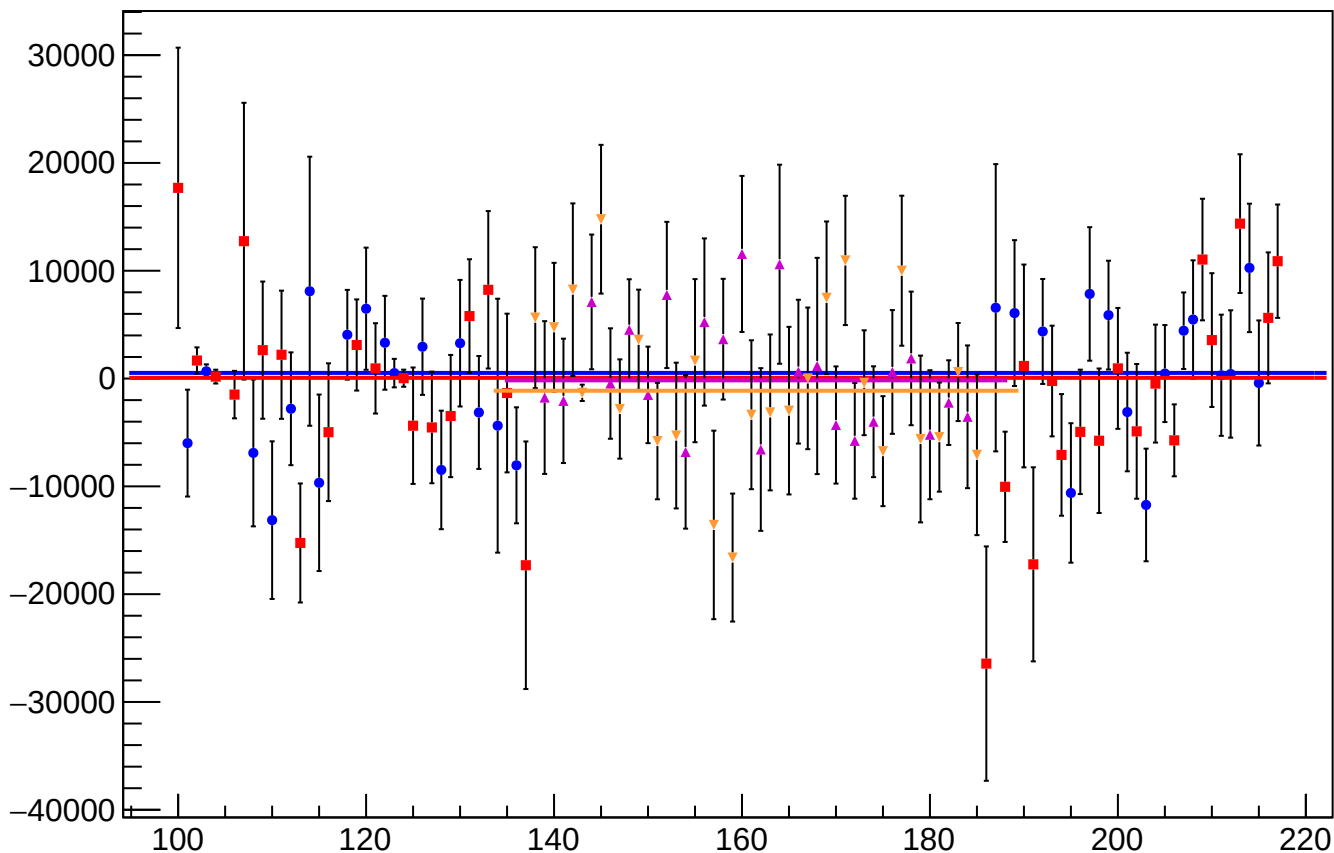
Right: 1677.793+/-0.199 χ^2/NDF : 659533.8/67

In: 1710.315+/-0.206 χ^2/NDF : 483045.8/54

Out: 1728.292+/-0.203 χ^2/NDF : 1183488.0/60

All: 1719.472+/-0.145 χ^2/NDF : 1670398.6/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 523.830 $\pm$ 504.448 χ^2 /NDF: 35.1/31

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: 67.325 $\pm$ 413.995 χ^2 /NDF: 55.4/35

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

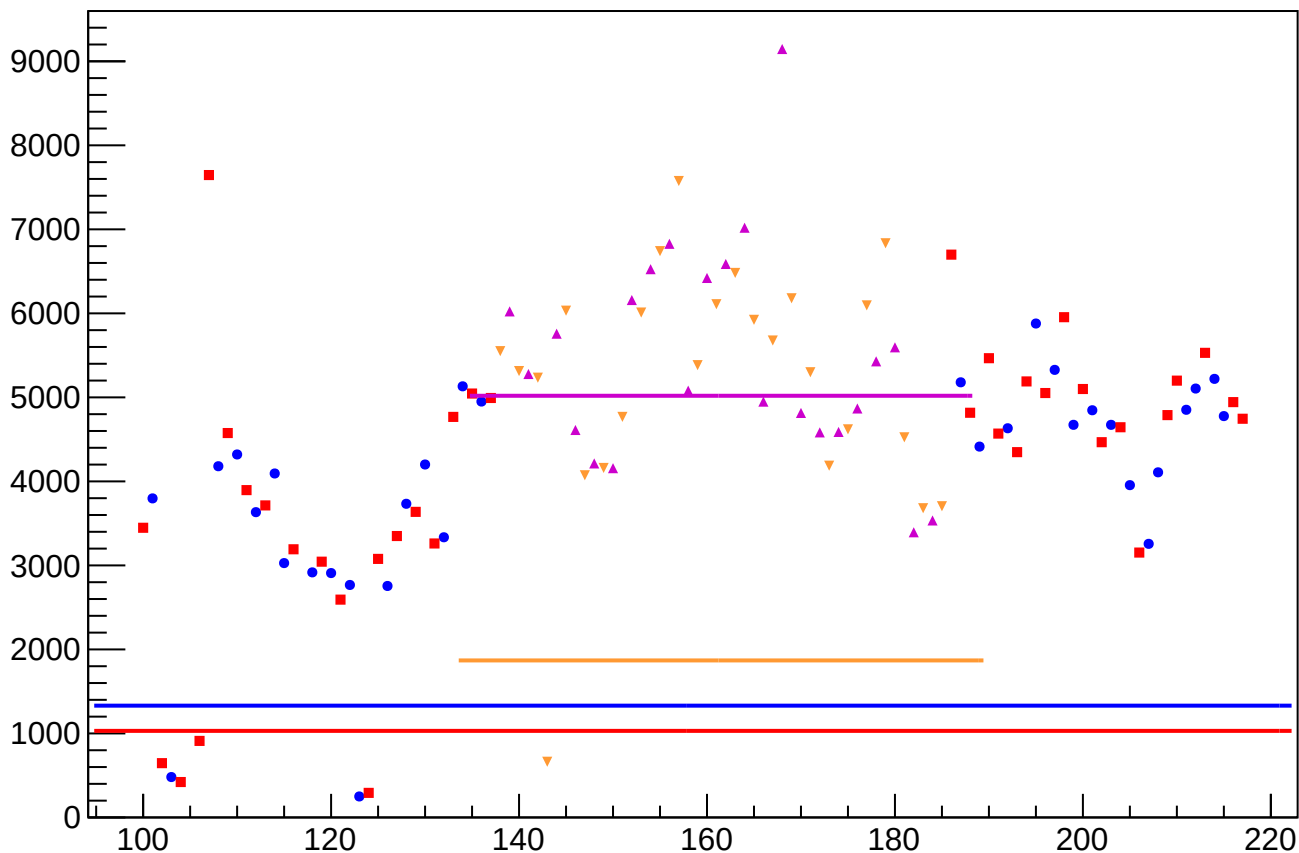
Right: 251.050 $\pm$ 320.021 χ^2 /NDF: 90.9/67

In: 424.527 $\pm$ 466.853 χ^2 /NDF:49.5/54

Out: -279.977 $\pm$ 348.810 χ^2 /NDF:89.3/60

All: -27.589 $\pm$ 279.430 χ^2 /NDF: 140.2/115

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1330.692 $\pm$ 0.357 χ^2/NDF : 20437050.6/31

Left Out: 1868.983 $\pm$ 0.458 χ^2/NDF : 19852416.6/24

Right Out: 1030.541 $\pm$ 0.293 χ^2/NDF : 23988170.5/35

Left In: 5019.114 $\pm$ 0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597 $\pm$ 0.405 χ^2/NDF : 31661059.7/47

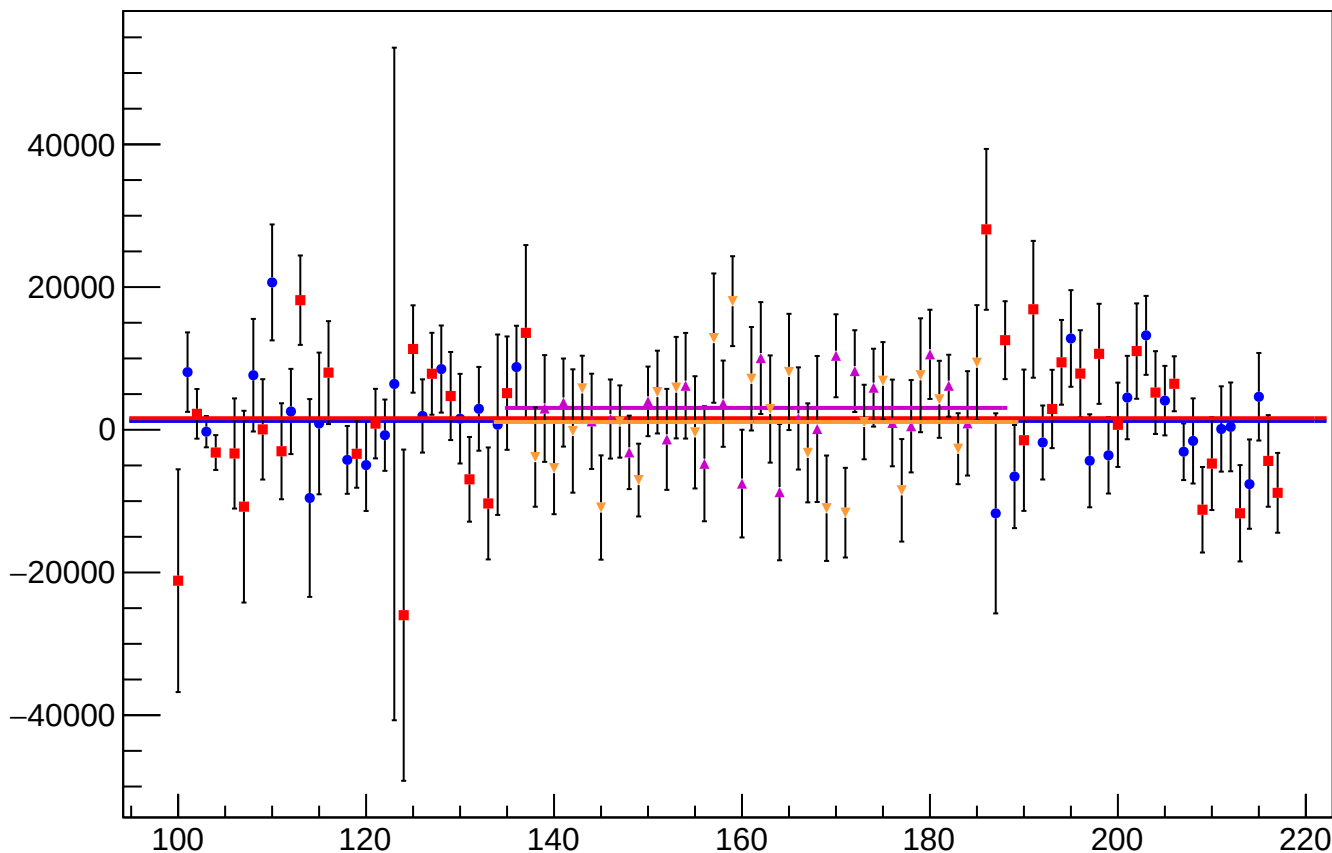
Right: 1151.340 $\pm$ 0.226 χ^2/NDF : 44848323.0/67

In: 1859.978 $\pm$ 0.330 χ^2/NDF : 37349695.3/54

Out: 1273.783 $\pm$ 0.247 χ^2/NDF : 46220455.1/60

All: 1483.787 $\pm$ 0.198 χ^2/NDF : 85593726.1/131

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1244.126+/-988.798 χ^2/NDF : 30.6/31

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 1618.414+/-975.195 χ^2/NDF : 62.0/35

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

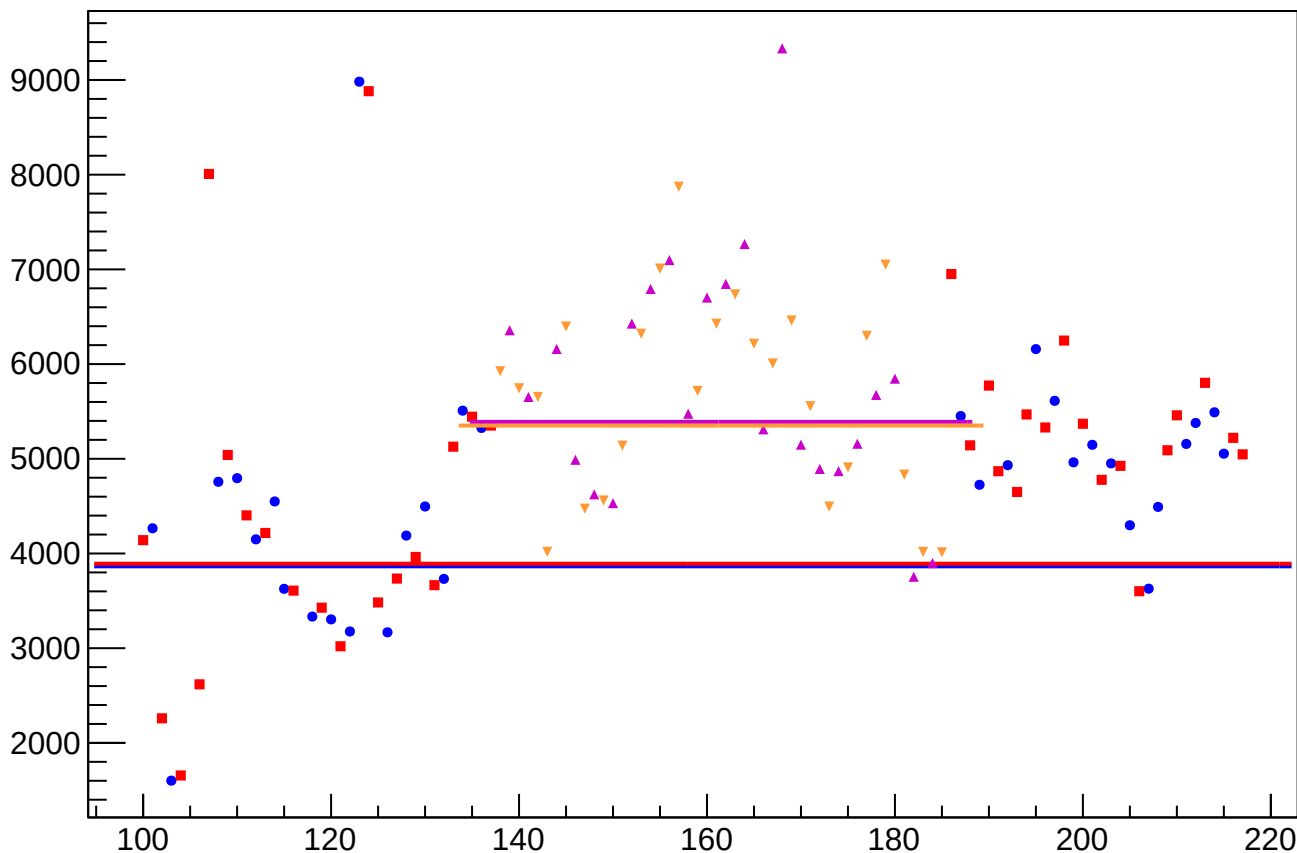
Right: 1433.863+/-694.326 χ^2/NDF : 92.7/67

In: 1899.703+/-790.990 χ^2/NDF : 44.4/54

Out: 1424.614+/-774.173 χ^2/NDF : 94.1/60

All: 1657.054+/-553.273 χ^2/NDF : 138.7/115

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3864.552 $\pm$ 0.699

χ^2 /NDF: 3774968.8/31

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

Right Out: 3891.976 $\pm$ 0.684

χ^2 /NDF: 4460195.0/35

Left In: 5389.724 $\pm$ 0.932

χ^2 /NDF: 1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

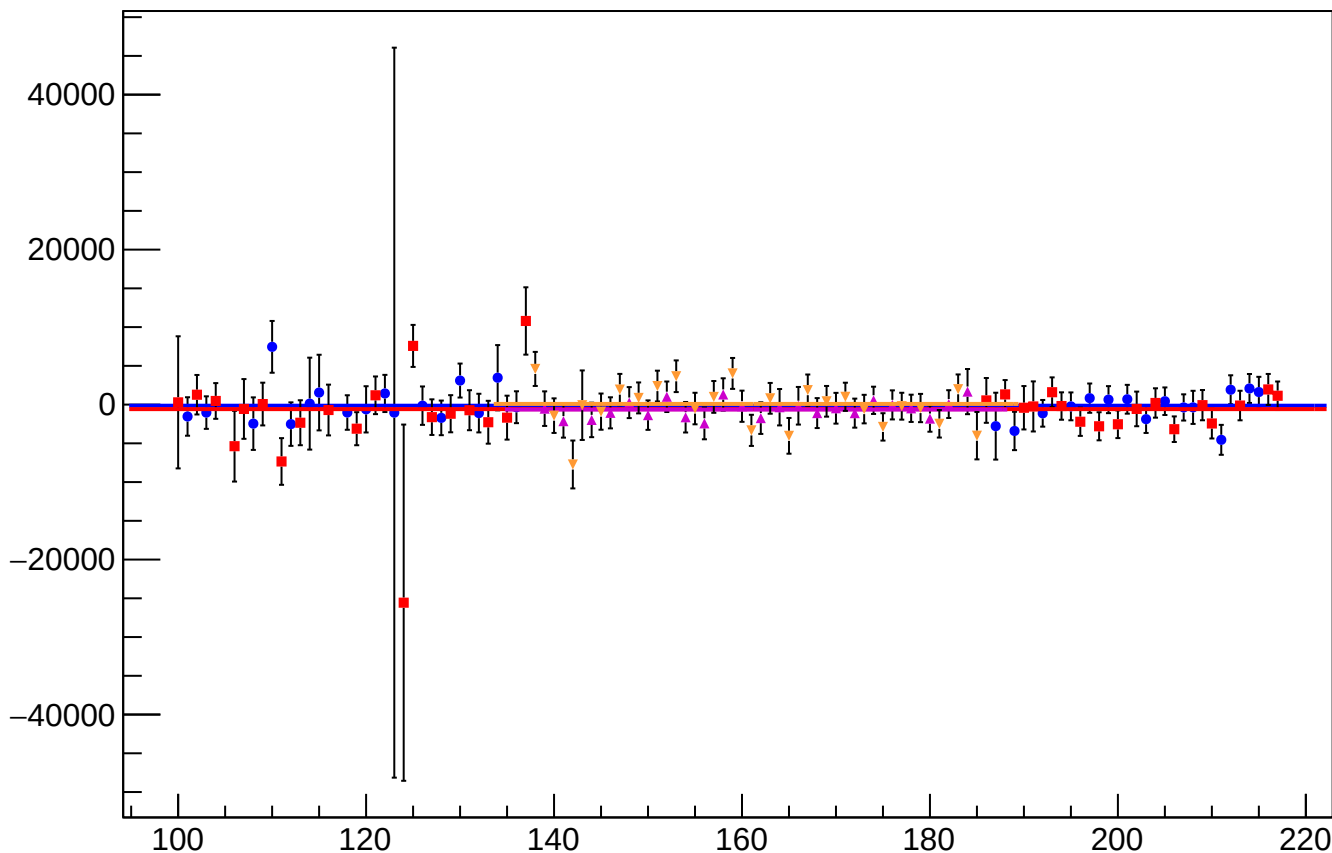
Right: 3878.570 $\pm$ 0.489 χ^2 /NDF: 8235950.2/67

In: 4413.731 $\pm$ 0.559 χ^2 /NDF: 6798198.1/54

Out: 4425.695 $\pm$ 0.545 χ^2 /NDF: 7366996.3/60

All: 4419.874 $\pm$ 0.390 χ^2 /NDF: 14165429.2/121

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -143.929 ± 397.210 χ^2/NDF : 24.0/31

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -583.825 ± 388.827 χ^2/NDF : 39.3/35

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

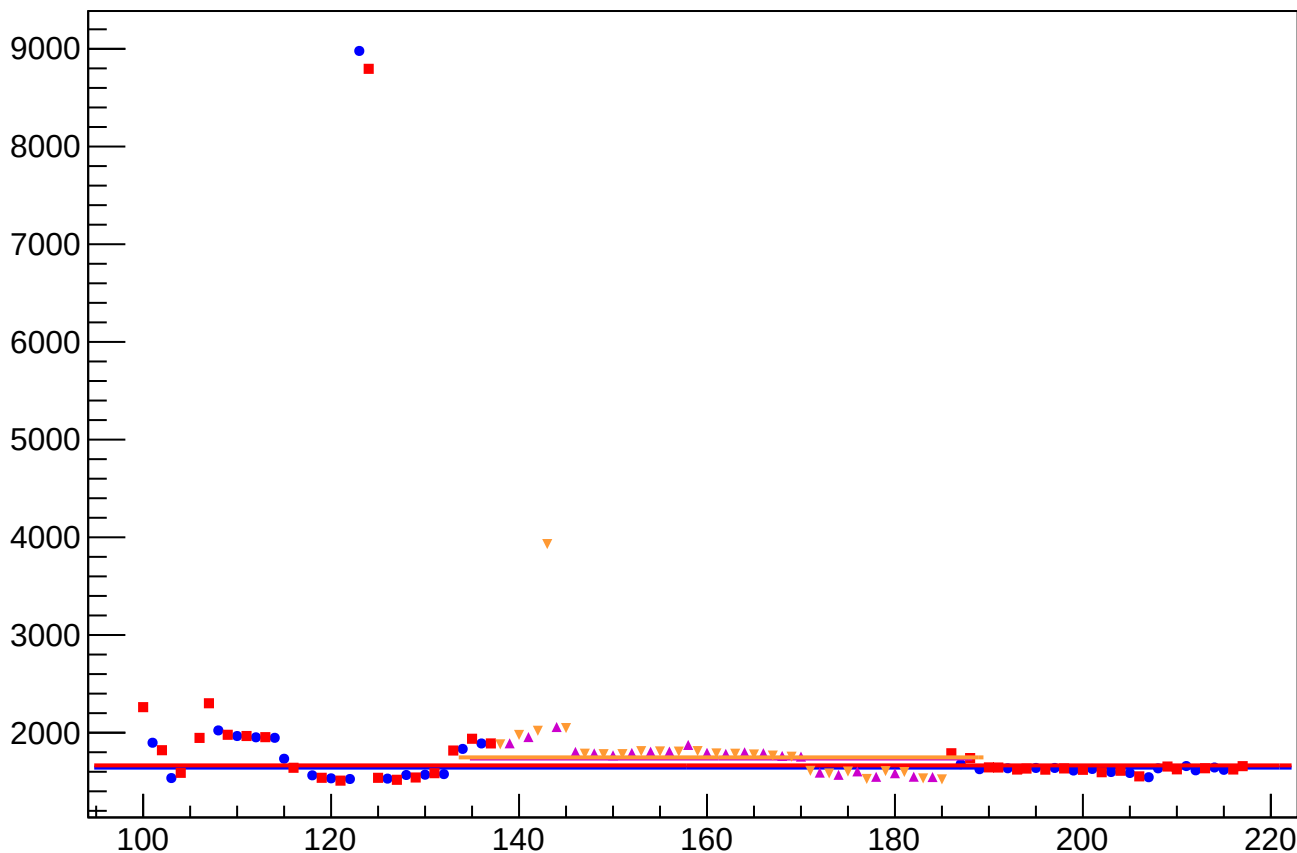
Right: -368.568 ± 277.859 χ^2/NDF : 64.0/67

In: -379.643 ± 287.823 χ^2/NDF : 30.9/54

Out: -267.797 ± 282.628 χ^2/NDF : 76.8/60

All: -322.701 ± 201.660 χ^2/NDF : 107.8/115

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1642.654+/-0.281 χ^2/NDF : 213844.4/31

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1665.407+/-0.275 χ^2/NDF : 434883.3/35

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

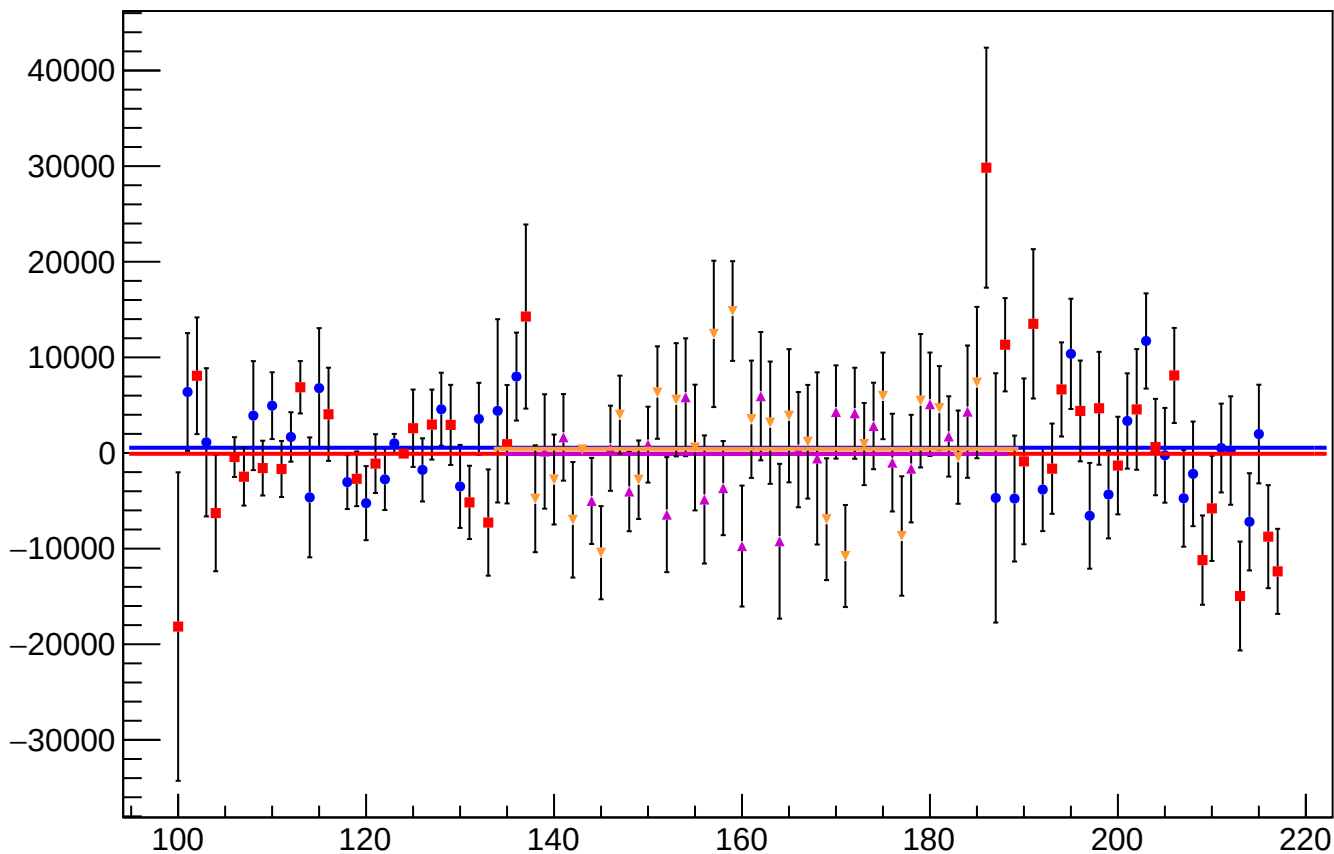
Right: 1654.290+/-0.196 χ^2/NDF : 652083.6/67

In: 1686.769+/-0.204 χ^2/NDF : 472554.0/54

Out: 1703.980+/-0.200 χ^2/NDF : 1175000.3/60

All: 1695.538+/-0.143 χ^2/NDF : 1651197.9/11

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 549.657 $\pm$ 627.324 χ^2 /NDF: 32.3/31

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: -80.996 $\pm$ 345.036 χ^2 /NDF: 65.4/35

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

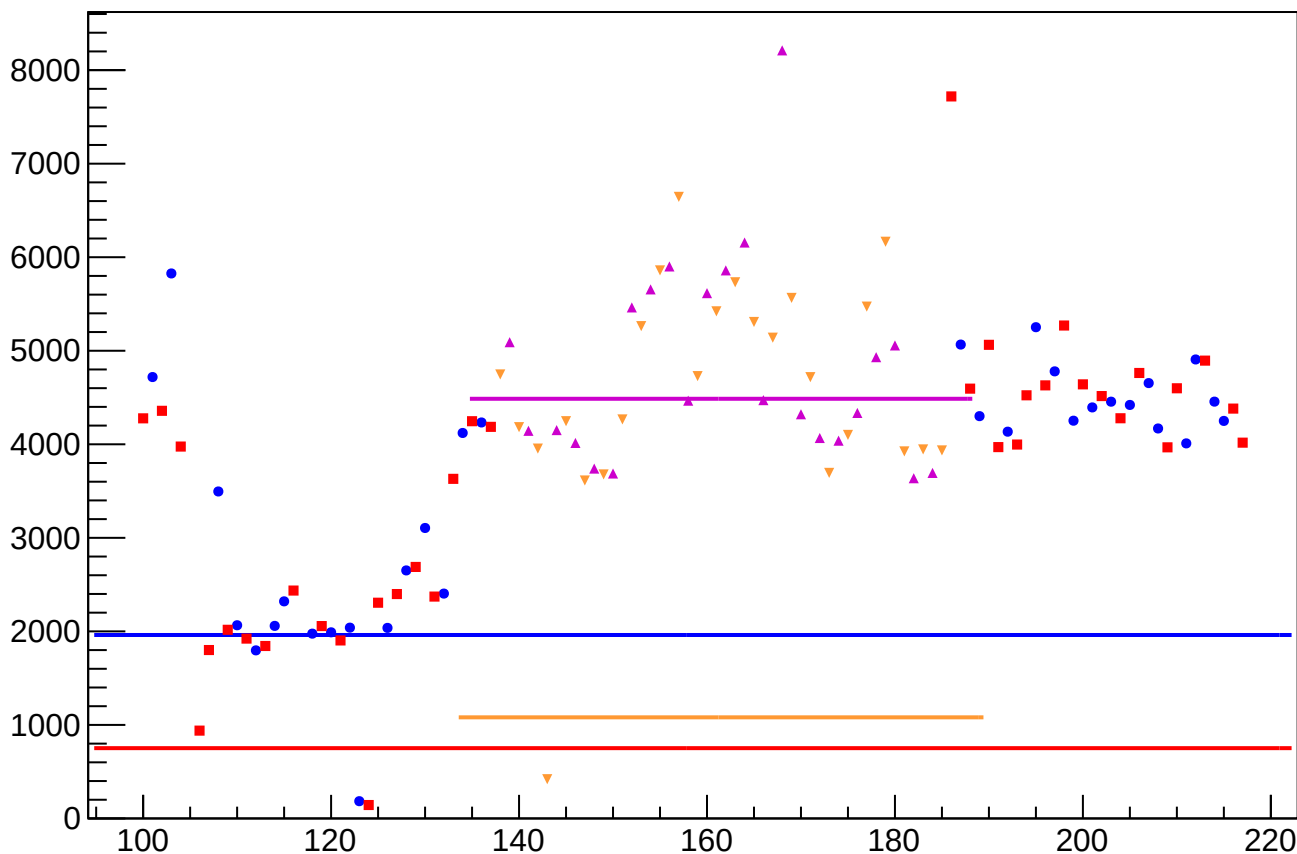
Right: 65.475 $\pm$ 302.324 χ^2 /NDF: 98.5/67

In: 391.926 $\pm$ 544.305 χ^2 /NDF:46.0/54

Out: 118.032 $\pm$ 271.590 χ^2 /NDF:100.2/60

All: 172.630 $\pm$ 243.018 χ^2 /NDF: 146.4/115

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1961.371+/-0.444

χ^2/NDF : 14987518.5/31

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 751.608+/-0.244

χ^2/NDF : 27463956.9/35

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

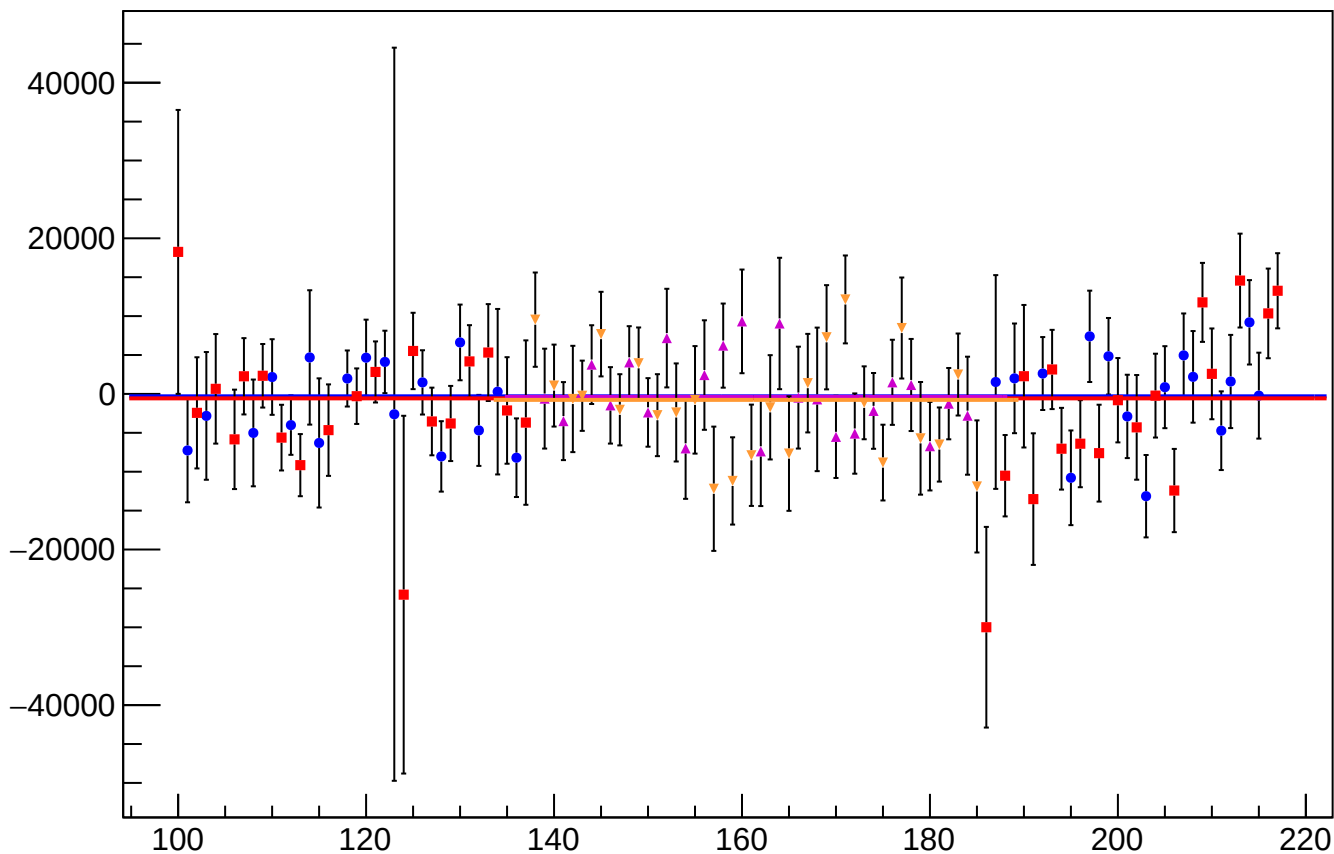
Right: 1032.580+/-0.214 χ^2/NDF : 48161854.6/67

In: 2585.508+/-0.385 χ^2/NDF : 24178926.4/54

Out: 876.916+/-0.192 χ^2/NDF : 52613624.3/60

All: 1217.505+/-0.172 χ^2/NDF : 92571254.8/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -309.961+/-955.108 χ^2/NDF : 32.4/31

Left Out: -766.008+/-1147.372 χ^2/NDF :29.9/24

Right Out: -572.452+/-914.232 χ^2/NDF : 60.9/35

Left In: -388.944+/-1186.300 χ^2/NDF :14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

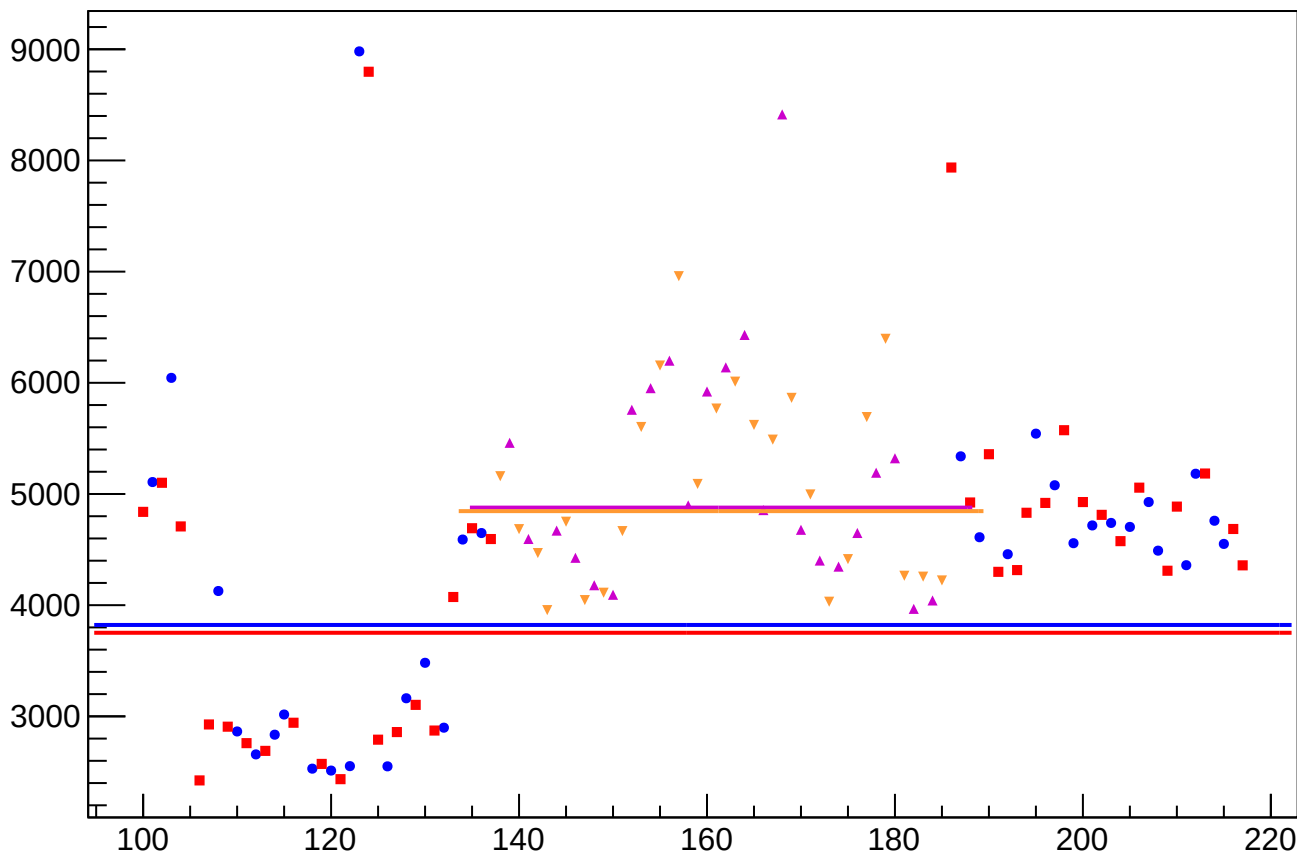
Right: -446.943+/-660.437 χ^2/NDF : 93.3/67

In: -341.023+/-743.954 χ^2/NDF :46.6/54

Out: -647.618+/-715.008 χ^2/NDF :90.8/60

All: -500.401+/-515.516 χ^2/NDF : 137.5/115

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3822.038+/-0.675 χ^2/NDF : 2430556.1/31

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3751.710+/-0.642 χ^2/NDF : 2915419.8/35

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

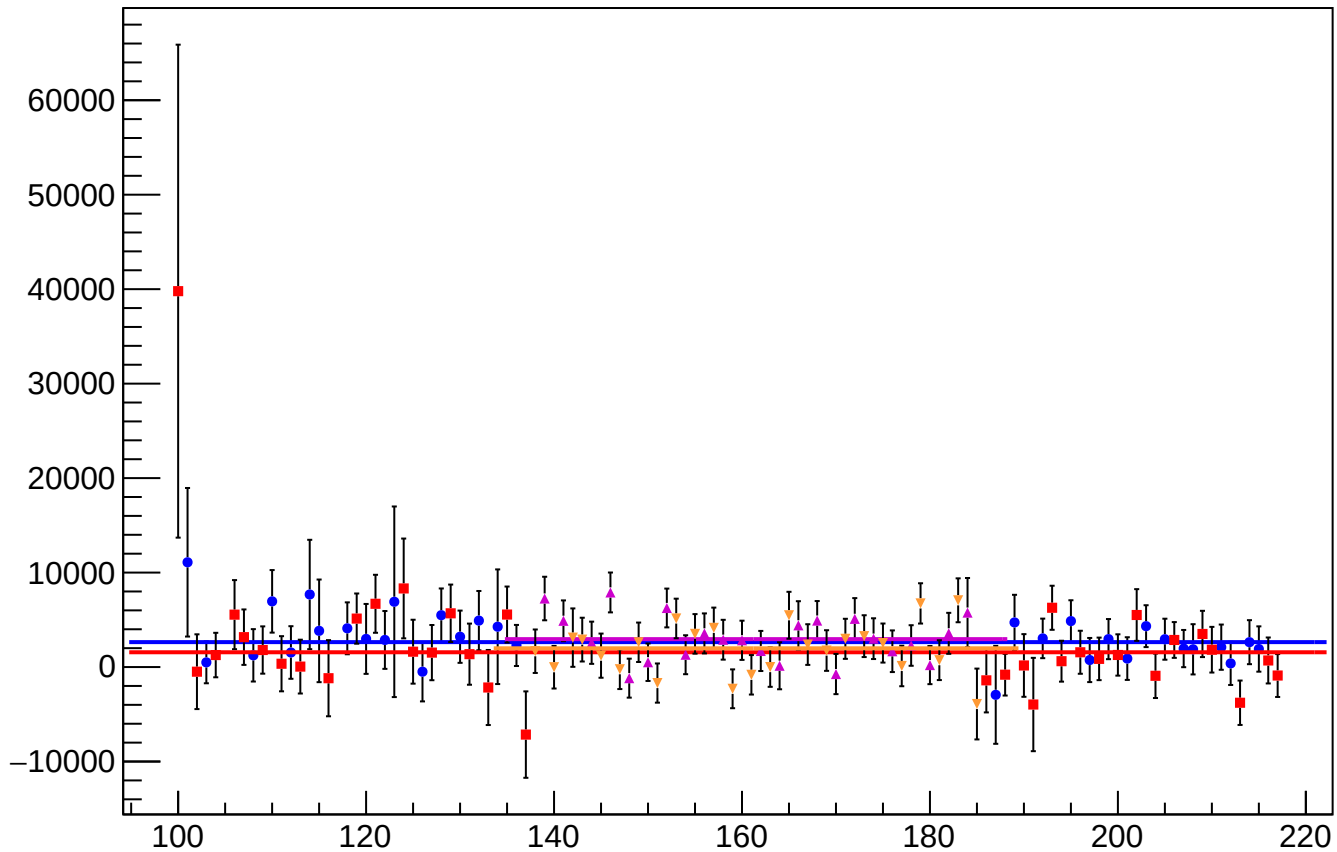
Right: 3785.077+/-0.465 χ^2/NDF : 5351675.0/67

In: 4237.113+/-0.526 χ^2/NDF : 4349636.4/54

Out: 4172.730+/-0.503 χ^2/NDF : 4943291.2/60

All: 4203.498+/-0.364 χ^2/NDF : 9300748.0/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2639.474 $\pm$ 477.669 χ^2 /NDF: 14.1/31

Left Out: 1985.469 $\pm$ 443.190 χ^2 /NDF: 32.4/24

Right Out: 1565.248 $\pm$ 460.708 χ^2 /NDF: 37.8/35

Left In: 2955.900 $\pm$ 454.551 χ^2 /NDF: 28.4/22

Left: 2458.406 $\pm$ 317.323 χ^2 /NDF: 63.2/47

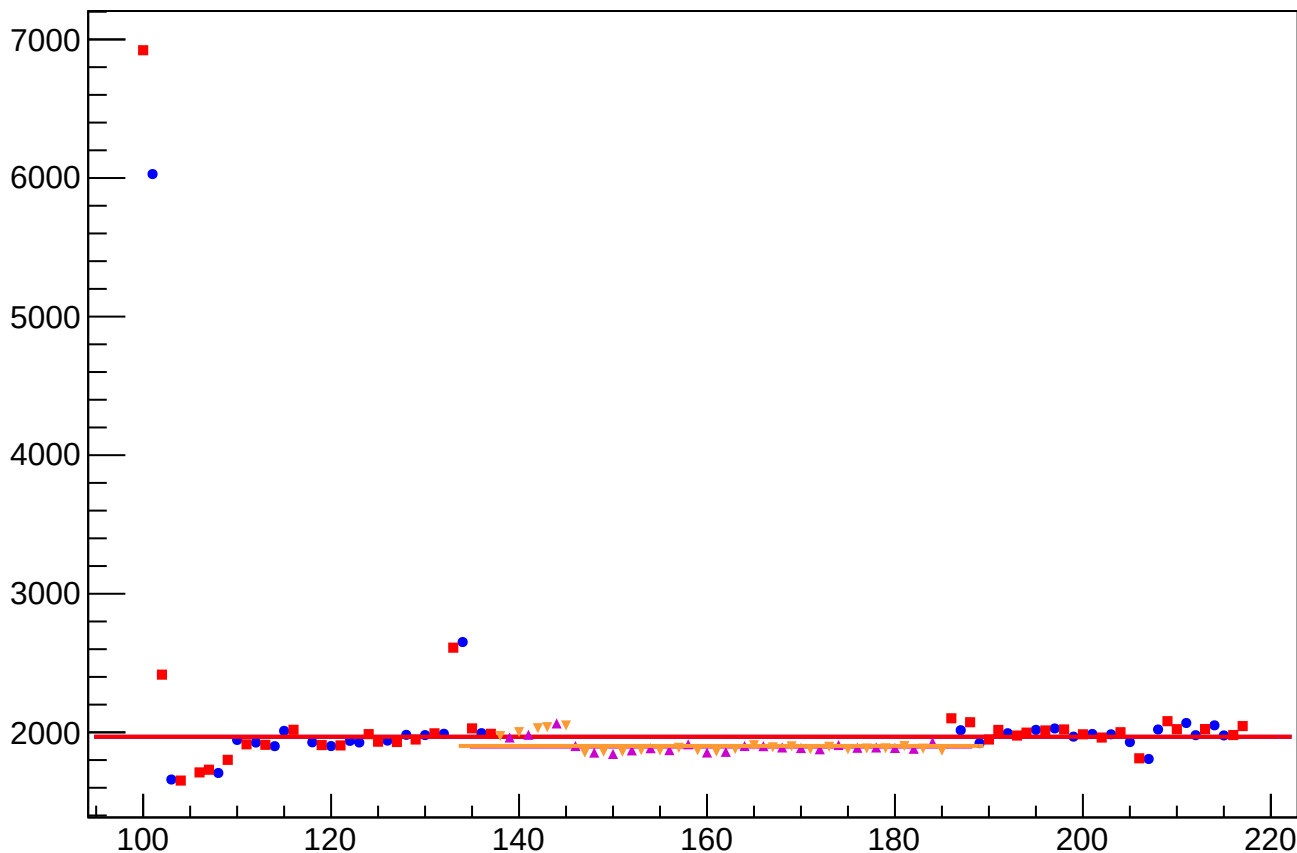
Right: 2082.950 $\pm$ 331.604 χ^2 /NDF: 54.5/67

In: 2805.530 $\pm$ 329.286 χ^2 /NDF: 42.7/54

Out: 1783.500 $\pm$ 319.396 χ^2 /NDF: 70.6/60

All: 2278.937 $\pm$ 229.264 χ^2 /NDF: 118.3/115

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.887 $\pm$ 0.338 χ^2 /NDF: 642465.6/31

Left Out: 1901.884 $\pm$ 0.313 χ^2 /NDF:30446.9/24

Right Out: 1968.288 $\pm$ 0.325 χ^2 /NDF: 257486.3/35

Left In: 1897.456 $\pm$ 0.321 χ^2 /NDF:21180.1/22

Left: 1899.726 $\pm$ 0.224 χ^2 /NDF: 51724.3/47

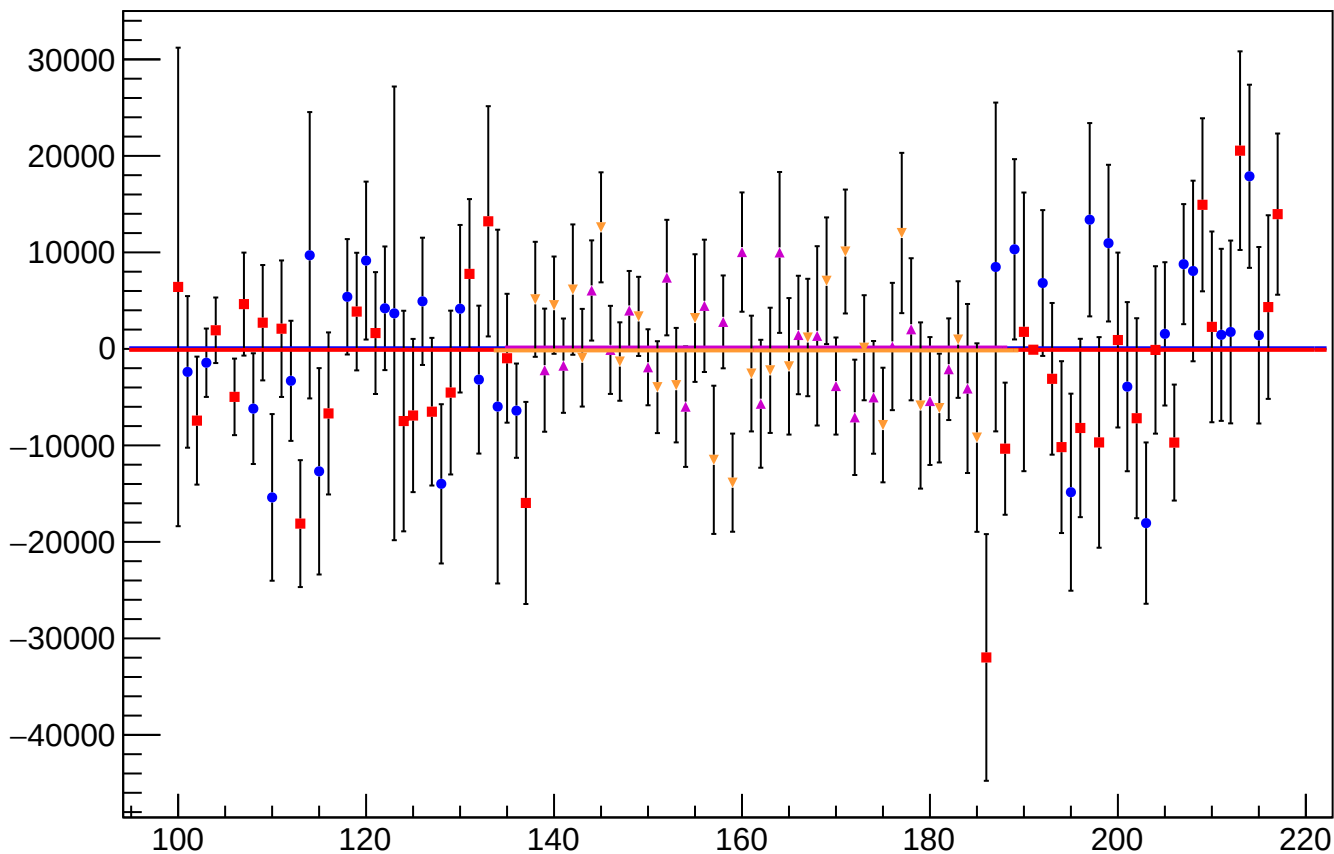
Right: 1968.095 $\pm$ 0.234 χ^2 /NDF: 899952.6/67

In: 1930.926 $\pm$ 0.233 χ^2 /NDF:686464.0/54

Out: 1933.829 $\pm$ 0.226 χ^2 /NDF:309533.3/60

All: 1932.422 $\pm$ 0.162 χ^2 /NDF: 996077.5/115

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 63.642+/-1339.432 χ^2/NDF : 34.2/31

Left Out: -157.539+/-1165.844 χ^2/NDF :29.5/24

Right Out: -98.194+/-109.514 χ^2/NDF : 44.0/35

Left In: 139.000+/-1190.889 χ^2/NDF :14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

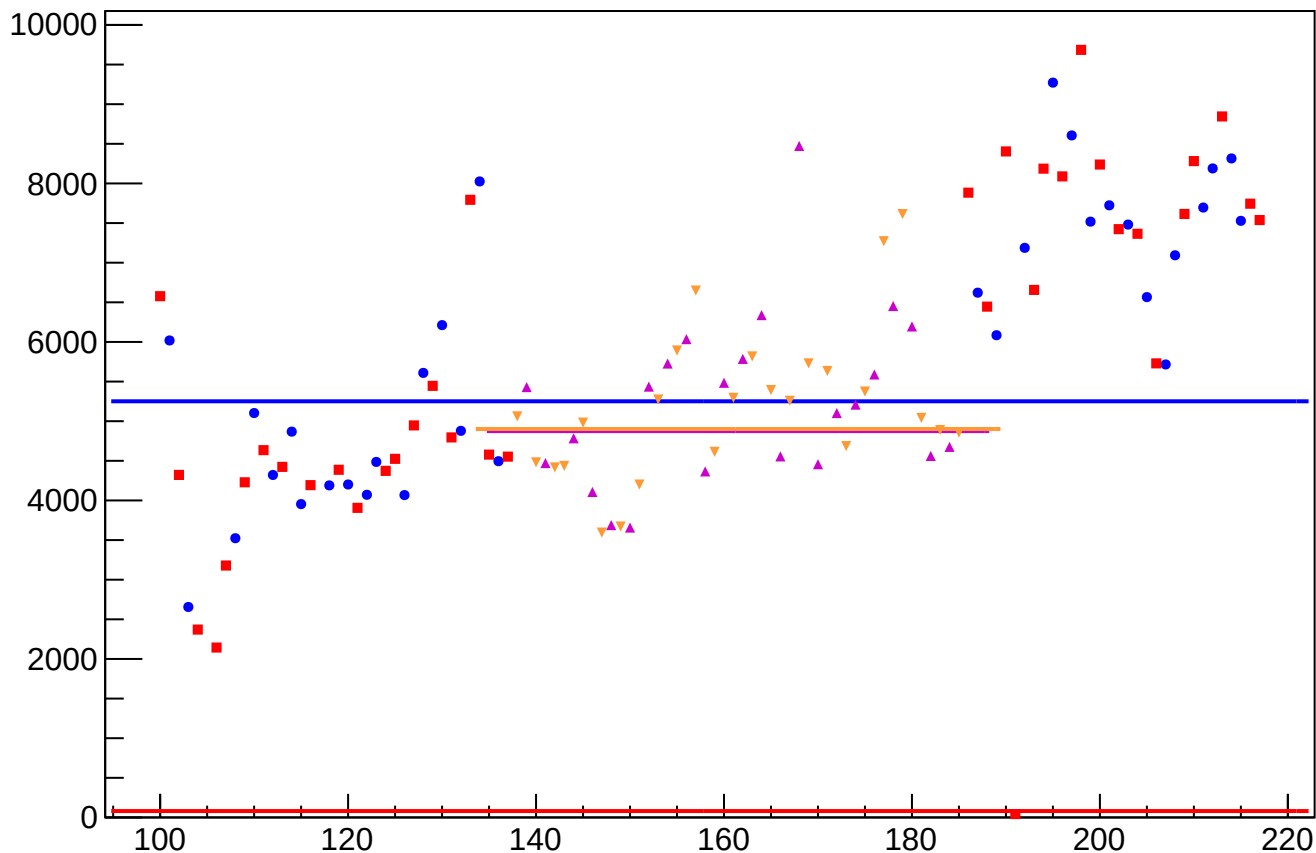
Right: -97.119+/-109.149 χ^2/NDF : 78.2/67

In: 105.730+/-889.989 χ^2/NDF :48.9/54

Out: -98.713+/-109.034 χ^2/NDF :73.5/60

All: -95.690+/-108.225 χ^2/NDF : 122.5/115

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5251.193+/-0.947 χ^2/NDF : 3685916.3/31

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 80.798+/-0.077 χ^2/NDF : 35741082.6/35

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

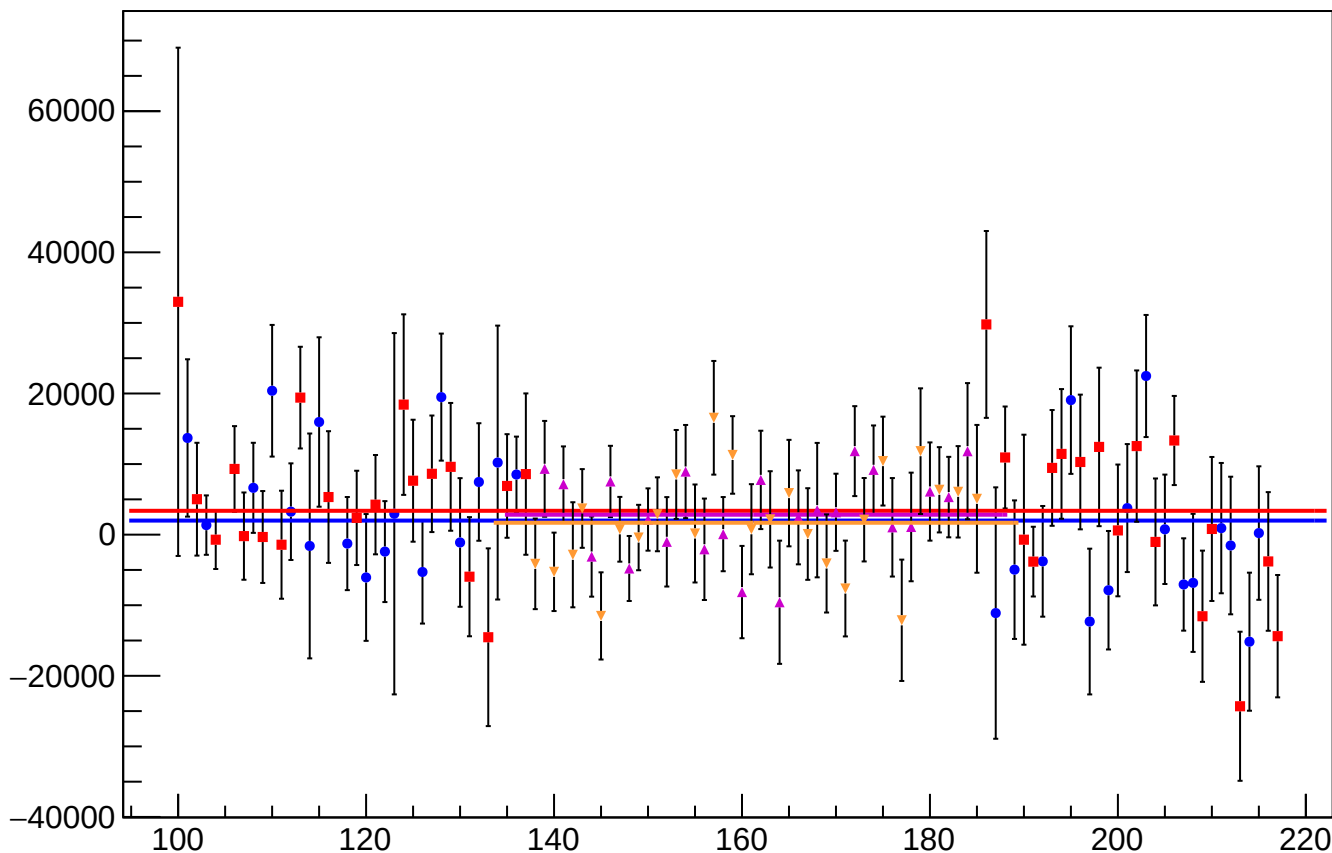
Right: 115.132+/-0.077 χ^2/NDF : 69030445.1/67

In: 5041.150+/-0.629 χ^2/NDF : 5003173.9/54

Out: 122.961+/-0.077 χ^2/NDF : 70772429.6/60

All: 195.687+/-0.077 χ^2/NDF : 135948615.1/13

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1992.928+/-1464.160 χ^2/NDF : 34.6/31

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 3379.484+/-1333.707 χ^2/NDF : 42.5/35

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

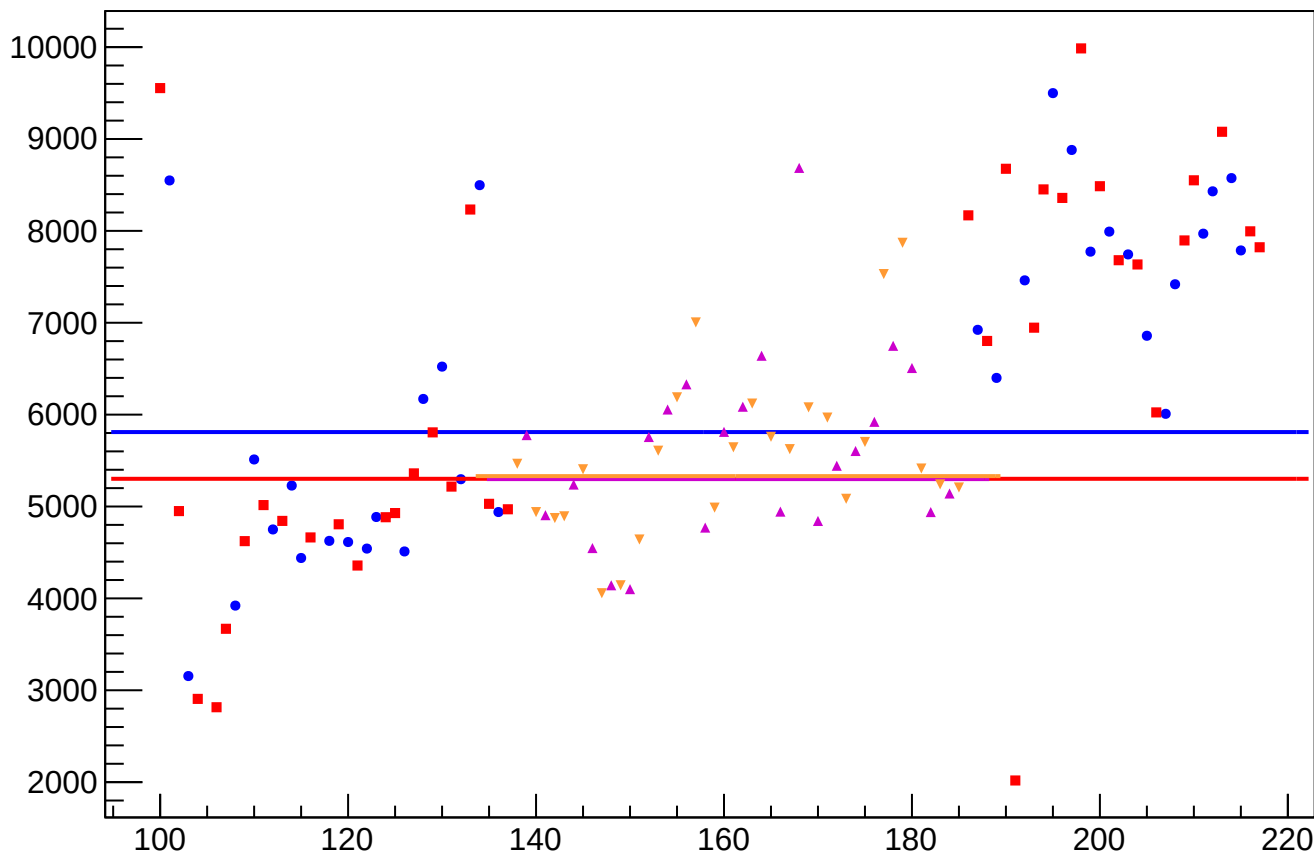
Right: 2750.715+/-985.974 χ^2/NDF : 77.6/67

In: 2461.355+/-967.245 χ^2/NDF : 52.8/54

Out: 2486.041+/-916.537 χ^2/NDF : 68.7/60

All: 2474.362+/-665.294 χ^2/NDF : 121.5/115

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5810.256+/-1.035 χ^2/NDF : 2961748.9/31

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 5301.573+/-0.940 χ^2/NDF : 4896379.0/35

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

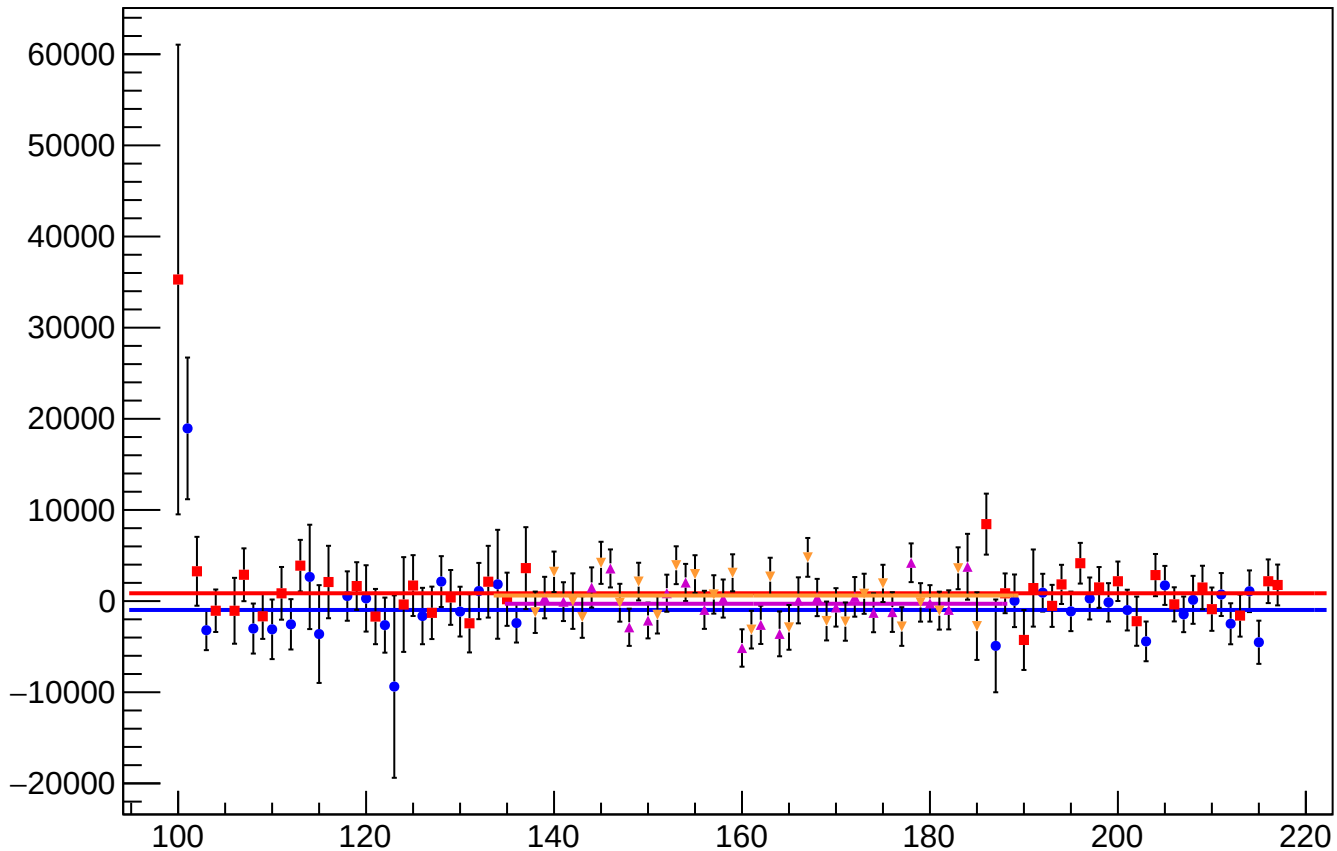
Right: 5531.374+/-0.696 χ^2/NDF : 7990477.4/67

In: 5521.740+/-0.684 χ^2/NDF : 4055564.7/54

Out: 5316.907+/-0.647 χ^2/NDF : 5764946.8/60

All: 5413.646+/-0.470 χ^2/NDF : 9867843.9/11

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -972.352+/-471.429 χ^2/NDF : 23.8/31

Left Out: 612.314+/-438.264 χ^2/NDF :32.7/24

Right Out: 858.670+/-453.981 χ^2/NDF : 24.4/35

Left In: -293.009+/-449.575 χ^2/NDF :23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

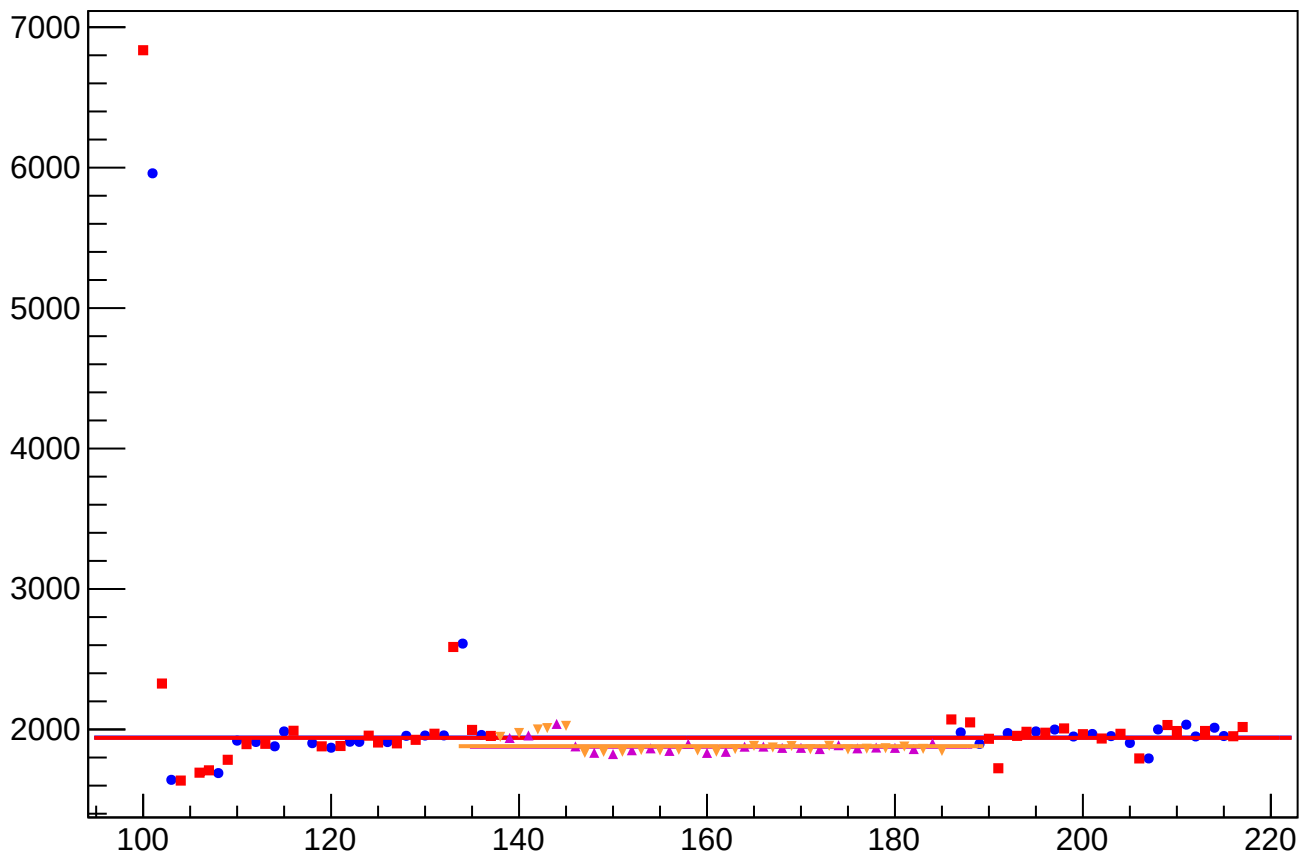
Right: -22.331+/-327.007 χ^2/NDF : 56.0/67

In: -616.570+/-325.349 χ^2/NDF :48.5/54

Out: 731.154+/-315.309 χ^2/NDF :57.3/60

All: 78.407+/-226.424 χ^2/NDF : 114.6/115

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1942.360+/-0.333 χ^2/NDF : 638321.6/31

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1940.078+/-0.321 χ^2/NDF : 253544.1/35

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

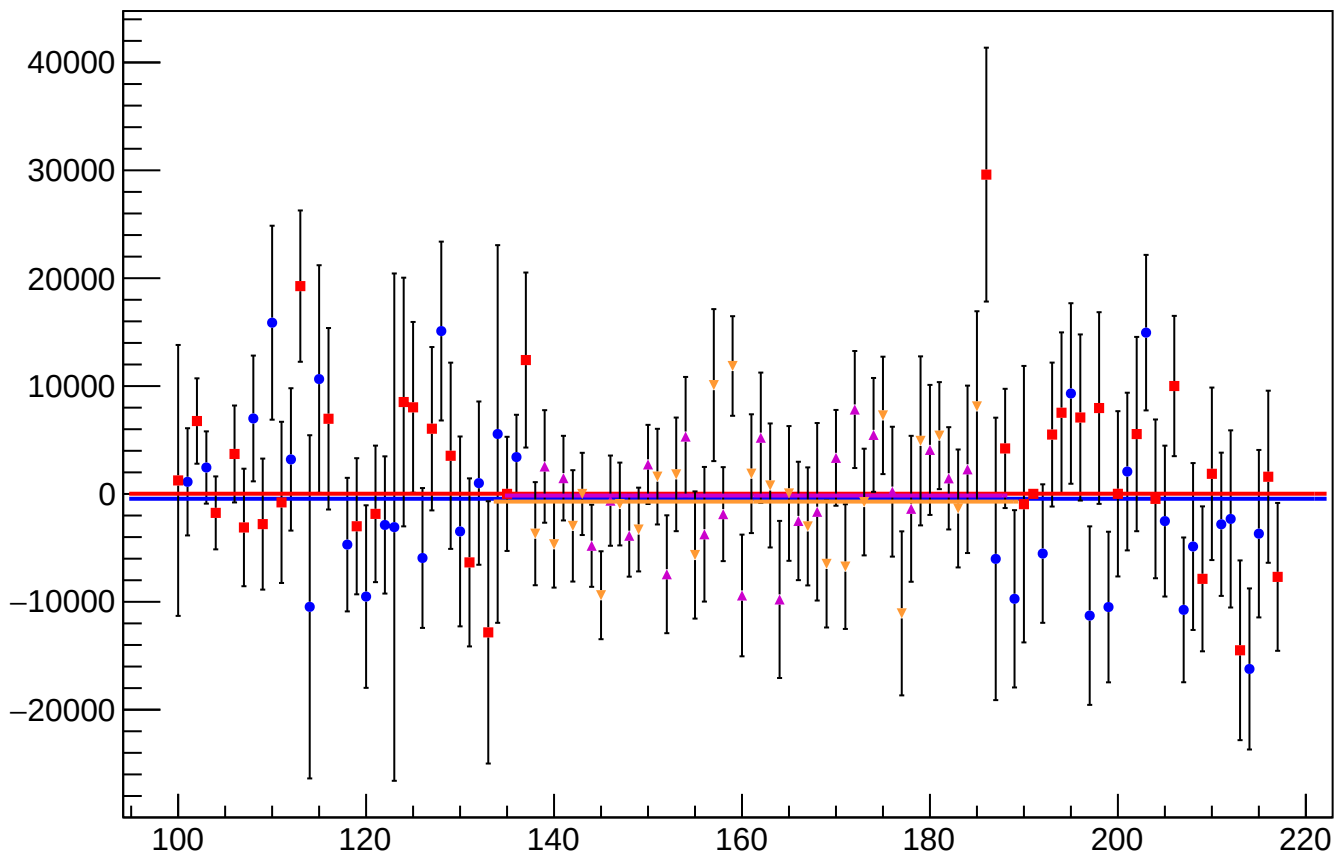
Right: 1941.175+/-0.231 χ^2/NDF : 891890.0/67

In: 1907.965+/-0.230 χ^2/NDF : 679149.6/54

Out: 1909.426+/-0.223 χ^2/NDF : 299860.9/60

All: 1908.719+/-0.160 χ^2/NDF : 979031.2/115

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -446.378+/-1217.507 χ^2/NDF : 34.3/31

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 20.934+/-85.768 χ^2/NDF : 38.2/35

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

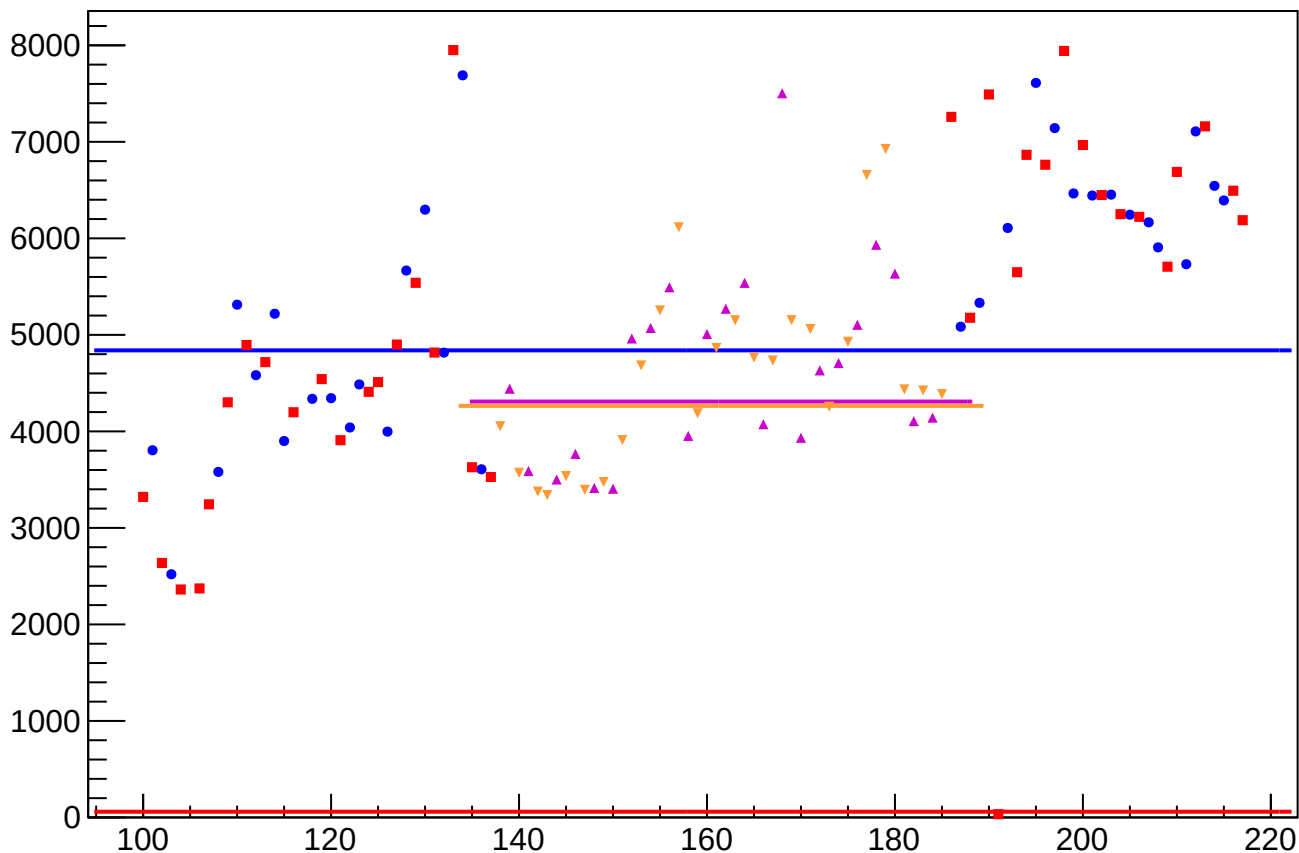
Right: 18.627+/-85.556 χ^2/NDF : 72.7/67

In: -277.201+/-796.727 χ^2/NDF : 51.3/54

Out: 15.795+/-85.465 χ^2/NDF : 65.8/60

All: 12.462+/-84.978 χ^2/NDF : 117.2/115

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4839.410+/-0.861 χ^2/NDF : 2911068.2/31

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 59.547+/-0.061 χ^2/NDF : 35921914.8/35

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

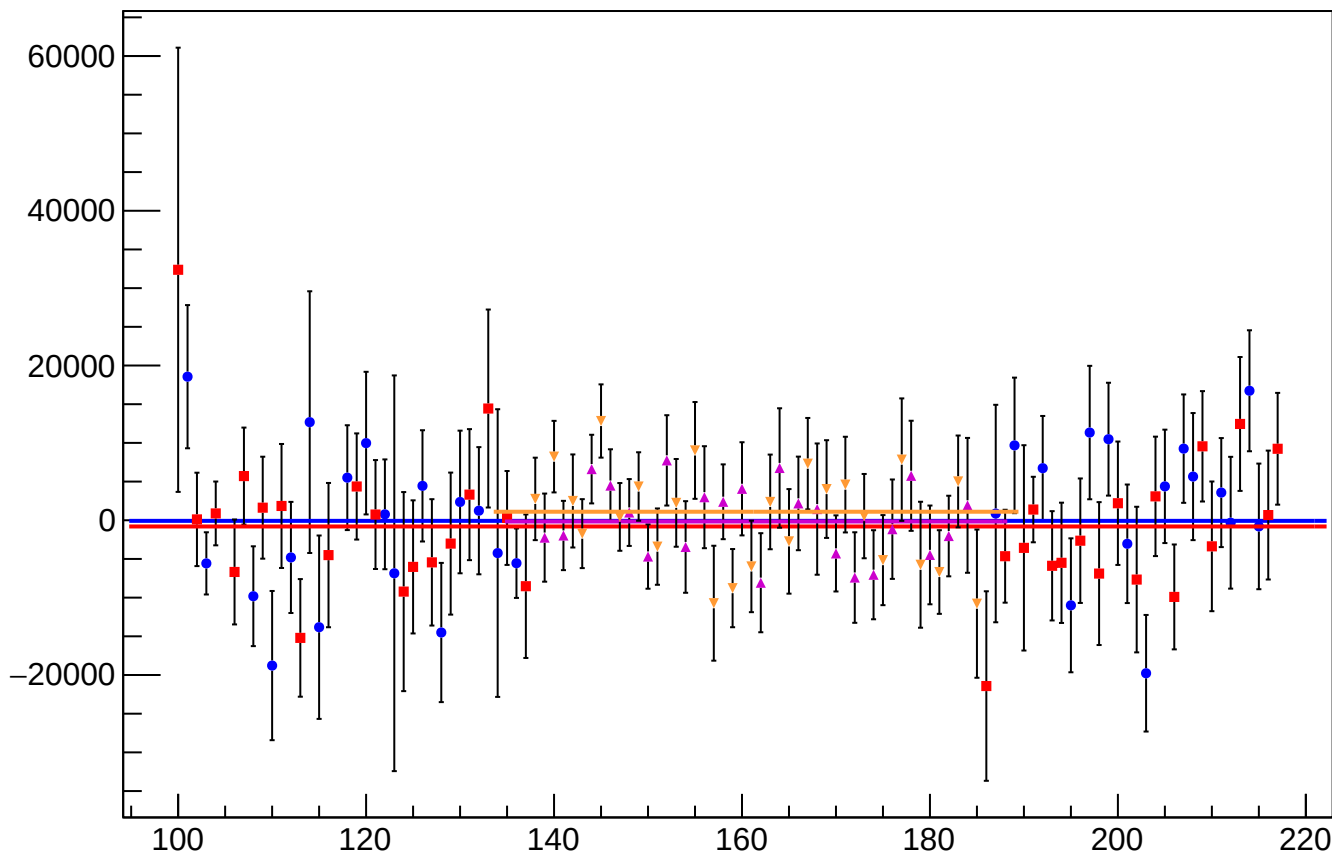
Right: 83.150+/-0.060 χ^2/NDF : 69506815.8/67

In: 4536.156+/-0.563 χ^2/NDF : 4433210.4/54

Out: 89.200+/-0.060 χ^2/NDF : 71177558.7/60

All: 139.789+/-0.060 χ^2/NDF : 137208918.3/137

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -77.254 ± 1356.210 $\chi^2/\text{NDF}: 43.1/31$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -803.865 ± 1235.746 $\chi^2/\text{NDF}: 25.7/35$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

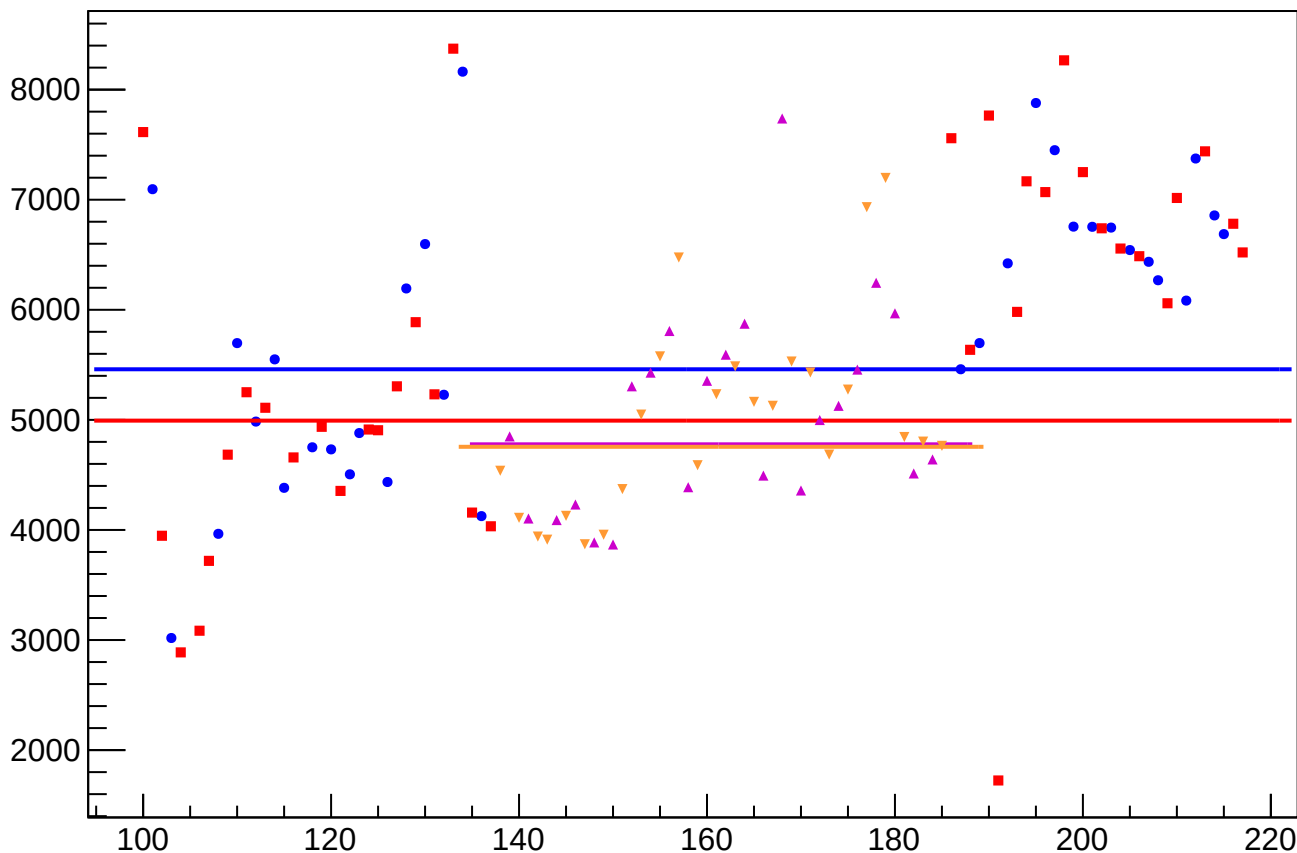
Right: -474.257 ± 913.429 $\chi^2/\text{NDF}: 68.9/67$

In: -124.228 ± 882.190 $\chi^2/\text{NDF}: 58.6/54$

Out: 236.994 ± 832.570 $\chi^2/\text{NDF}: 55.5/60$

All: 66.827 ± 605.498 $\chi^2/\text{NDF}: 114.3/115$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5459.586 $\pm$ 0.959 χ^2 /NDF: 2122227.7/31

Left Out: 4755.383 $\pm$ 0.797 χ^2 /NDF: 953328.0/24

Right Out: 4993.097 $\pm$ 0.871 χ^2 /NDF: 3998071.5/35

Left In: 4777.831 $\pm$ 0.821 χ^2 /NDF: 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2 /NDF: 1904004.1/47

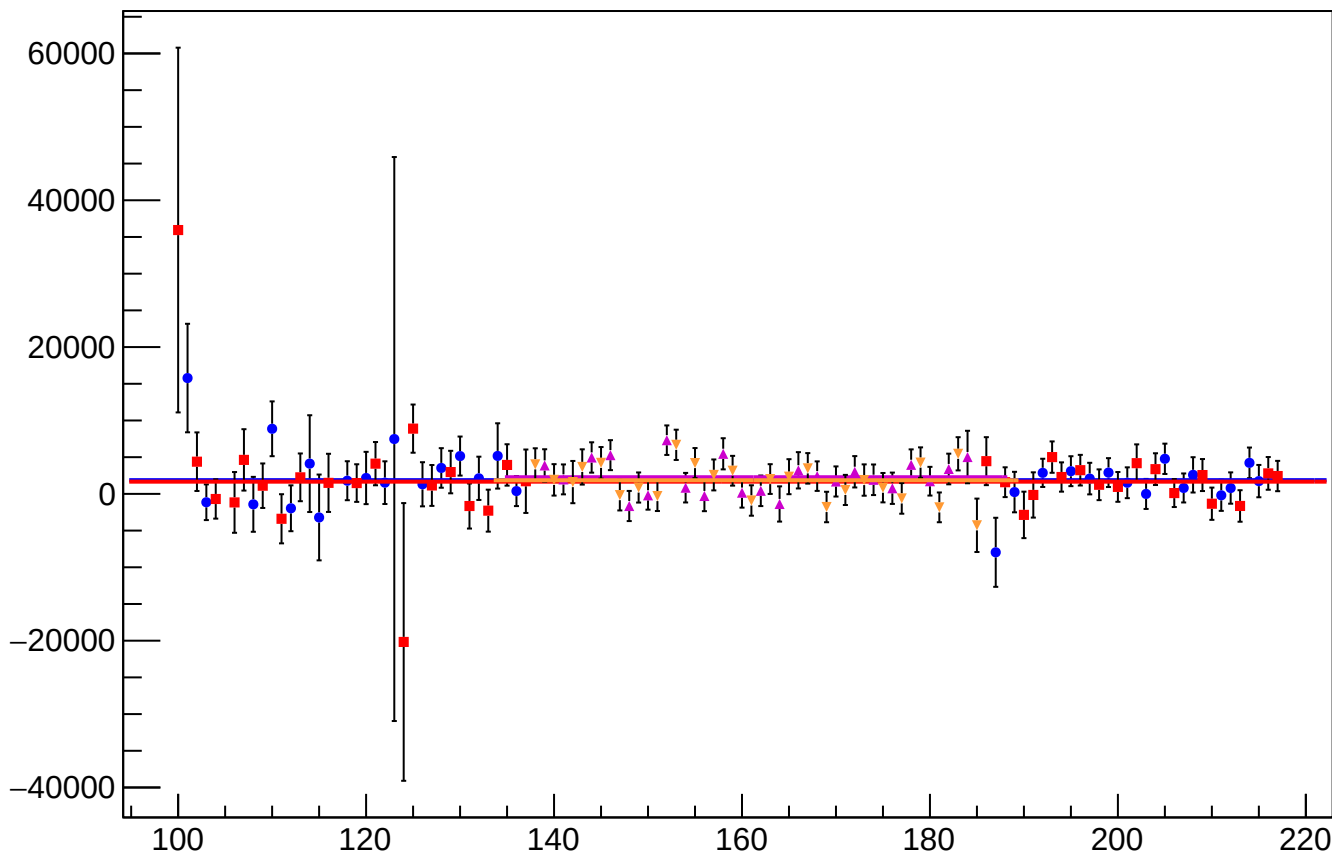
Right: 5204.019 $\pm$ 0.645 χ^2 /NDF: 6249934.3/67

In: 5066.300 $\pm$ 0.624 χ^2 /NDF: 3364069.0/54

Out: 4863.639 $\pm$ 0.588 χ^2 /NDF: 4991945.3/60

All: 4958.973 $\pm$ 0.428 χ^2 /NDF: 8411910.8/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1872.729 $\pm$ 456.976 χ^2 /NDF: 26.1/31

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1664.345 $\pm$ 441.944 χ^2 /NDF: 30.8/35

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

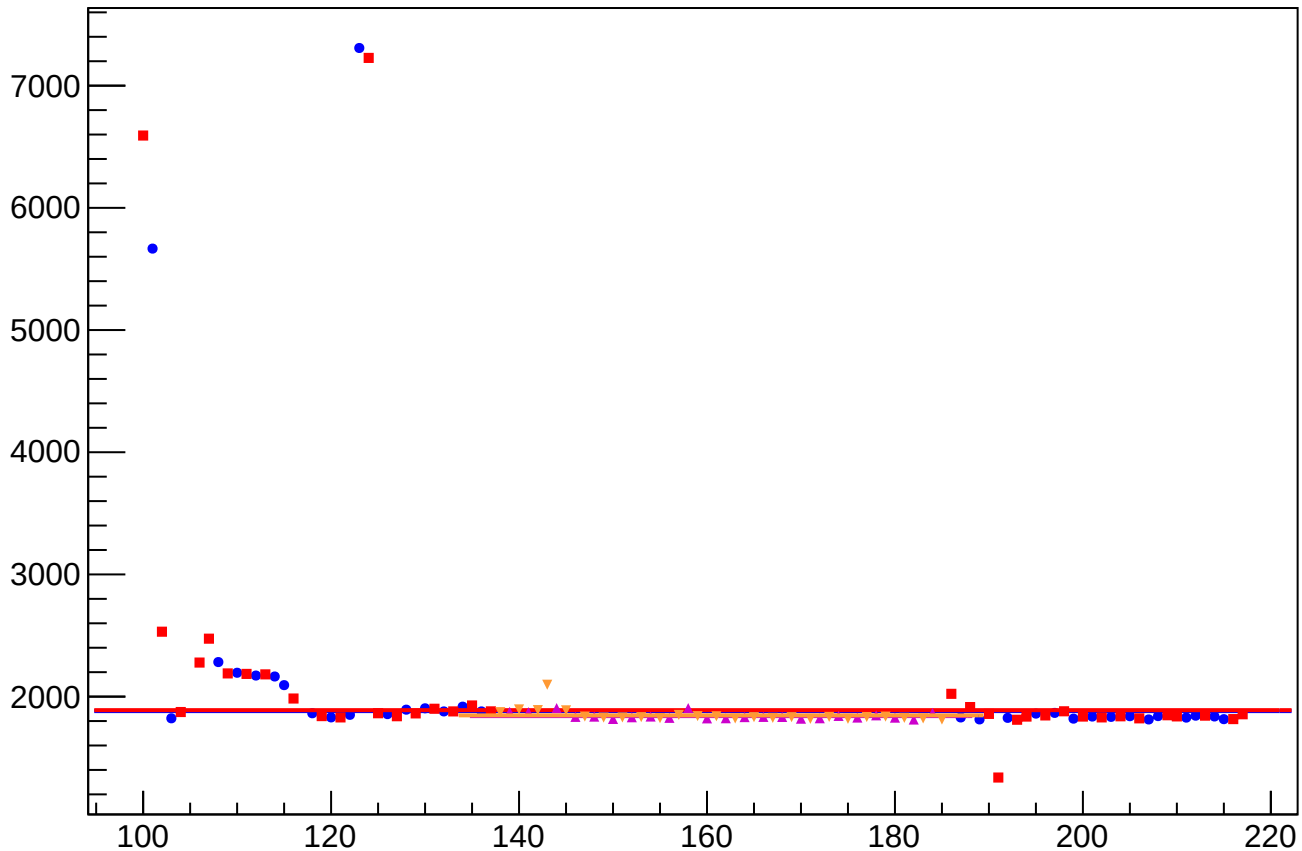
Right: 1765.053 $\pm$ 317.683 χ^2 /NDF: 57.0/67

In: 2077.317 $\pm$ 317.596 χ^2 /NDF:53.4/54

Out: 1762.872 $\pm$ 308.551 χ^2 /NDF:60.9/60

All: 1915.553 $\pm$ 221.307 χ^2 /NDF: 114.8/115

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1881.407 $\pm$ 0.323 χ^2 /NDF: 643190.2/31

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1889.251 $\pm$ 0.313 χ^2 /NDF: 479444.2/35

Left In: 1840.541 $\pm$ 0.312 χ^2 /NDF: 6740.2/22

Left: 1843.646 $\pm$ 0.218 χ^2 /NDF: 34235.8/47

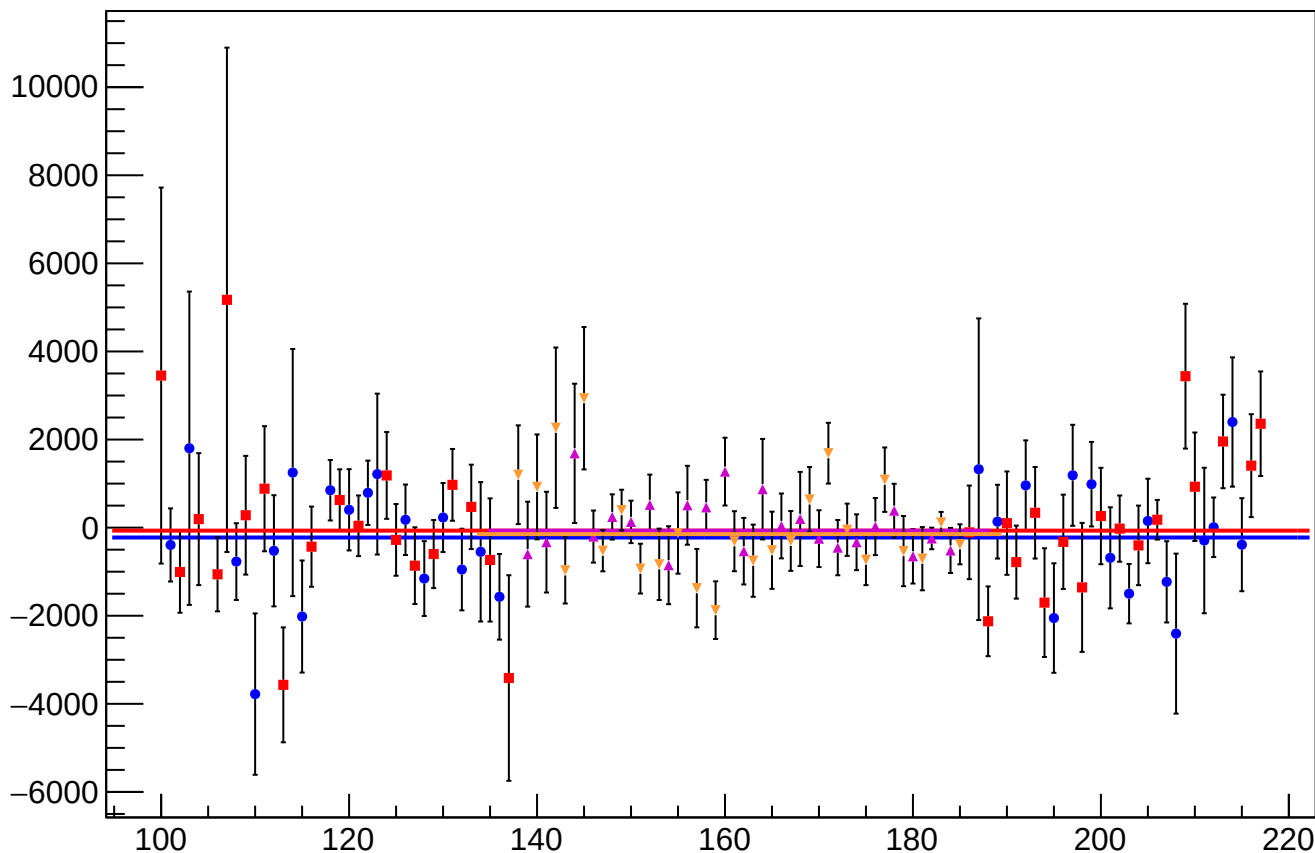
Right: 1885.460 $\pm$ 0.225 χ^2 /NDF: 1122938.9/67

In: 1860.280 $\pm$ 0.225 χ^2 /NDF: 658198.9/54

Out: 1867.391 $\pm$ 0.218 χ^2 /NDF: 516293.8/60

All: 1863.938 $\pm$ 0.156 χ^2 /NDF: 1175008.4/11

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -223.909+/-177.921 χ^2/NDF : 33.5/31

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -67.702+/-160.856 χ^2/NDF : 45.5/35

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

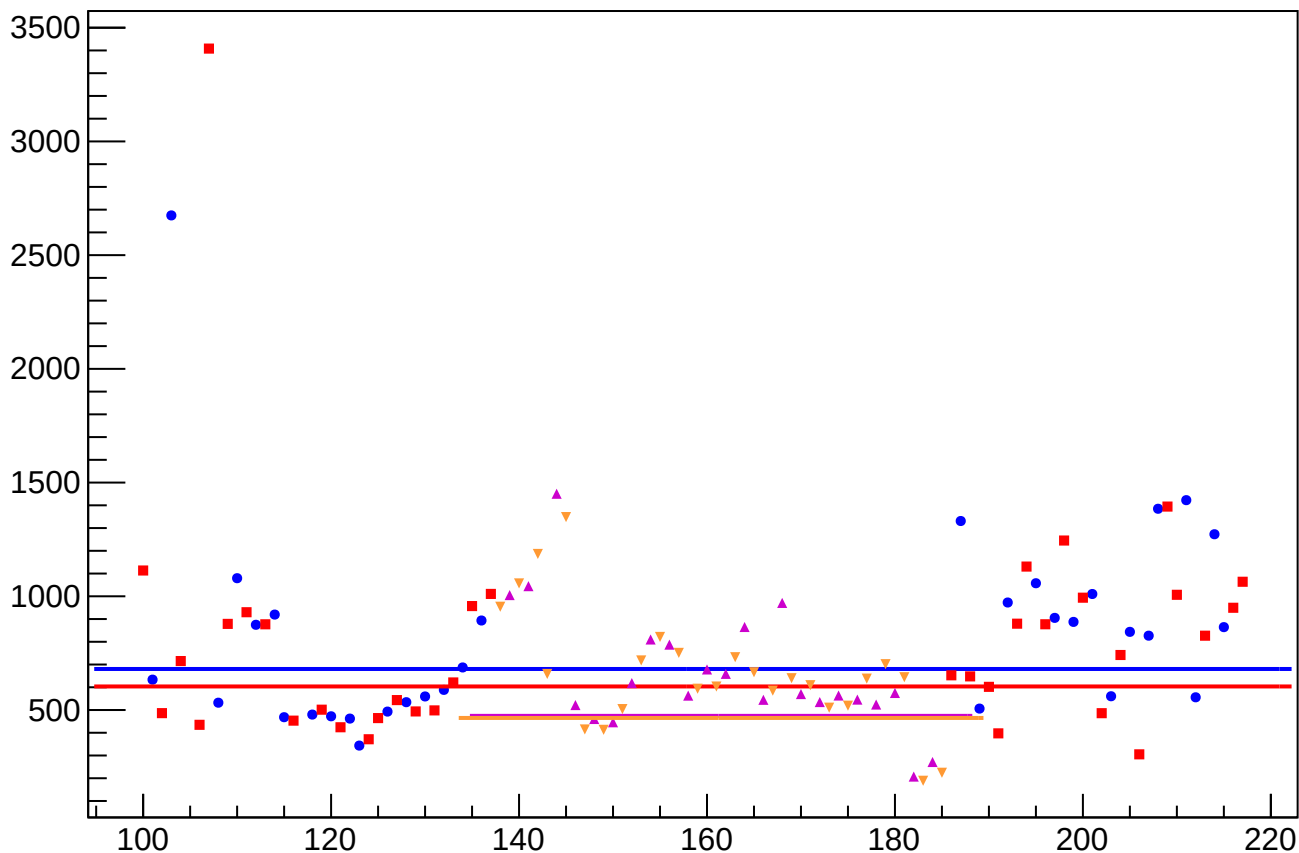
Right: -137.957+/-119.321 χ^2/NDF : 79.5/67

In: -121.836+/-103.029 χ^2/NDF : 46.3/54

Out: -118.047+/-97.197 χ^2/NDF : 83.3/60

All: -119.831+/-70.700 χ^2/NDF : 129.6/115

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 680.422+/-0.126 χ^2/NDF : 3928515.1/31

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 603.567+/-0.114 χ^2/NDF : 5209941.6/35

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

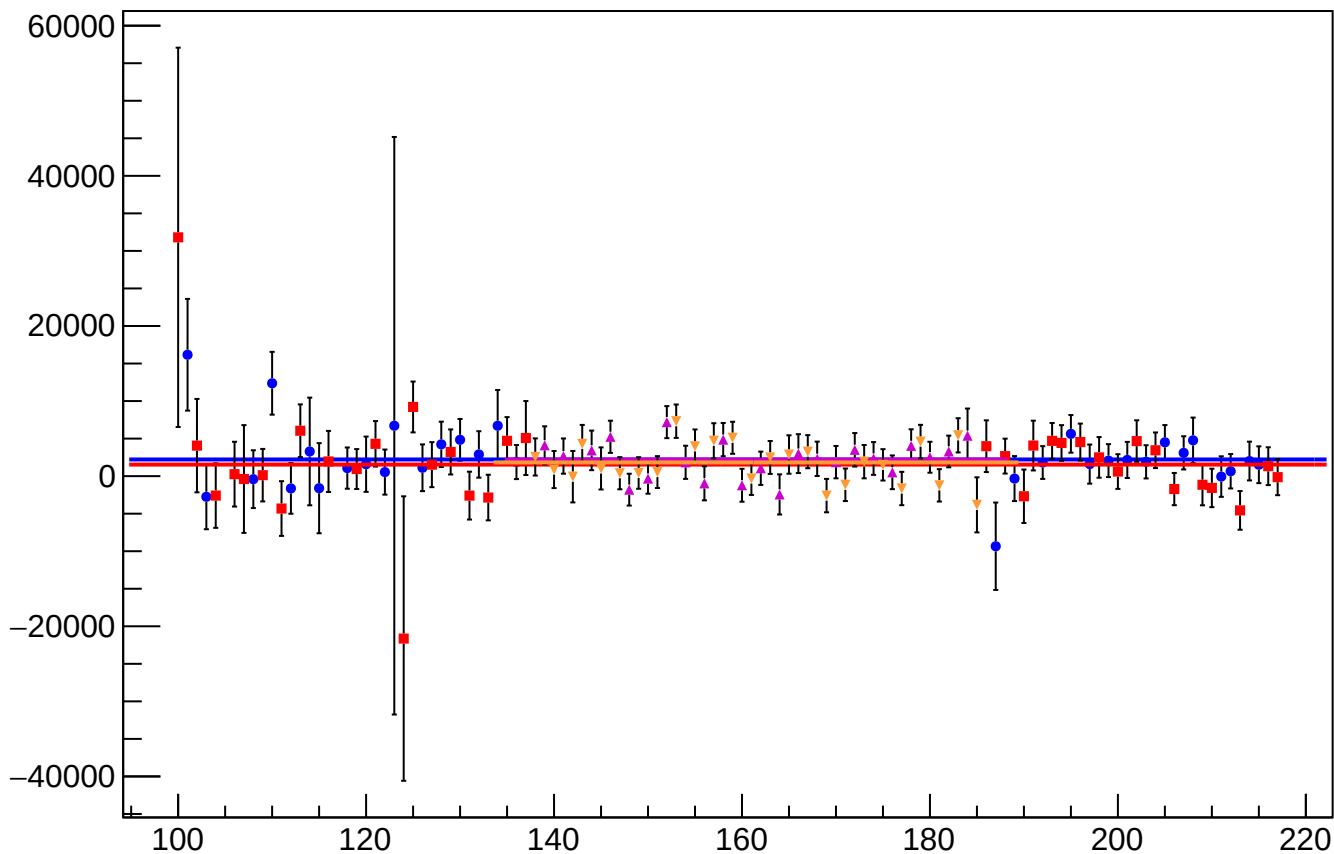
Right: 638.133+/-0.084 χ^2/NDF : 9343796.5/67

In: 543.393+/-0.073 χ^2/NDF : 11886428.6/54

Out: 515.644+/-0.069 χ^2/NDF : 13237248.6/60

All: 528.711+/-0.050 χ^2/NDF : 25200441.1/11

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2220.032 $\pm$ 518.160 χ^2 /NDF: 25.6/31

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1540.920 $\pm$ 503.853 χ^2 /NDF: 40.7/35

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

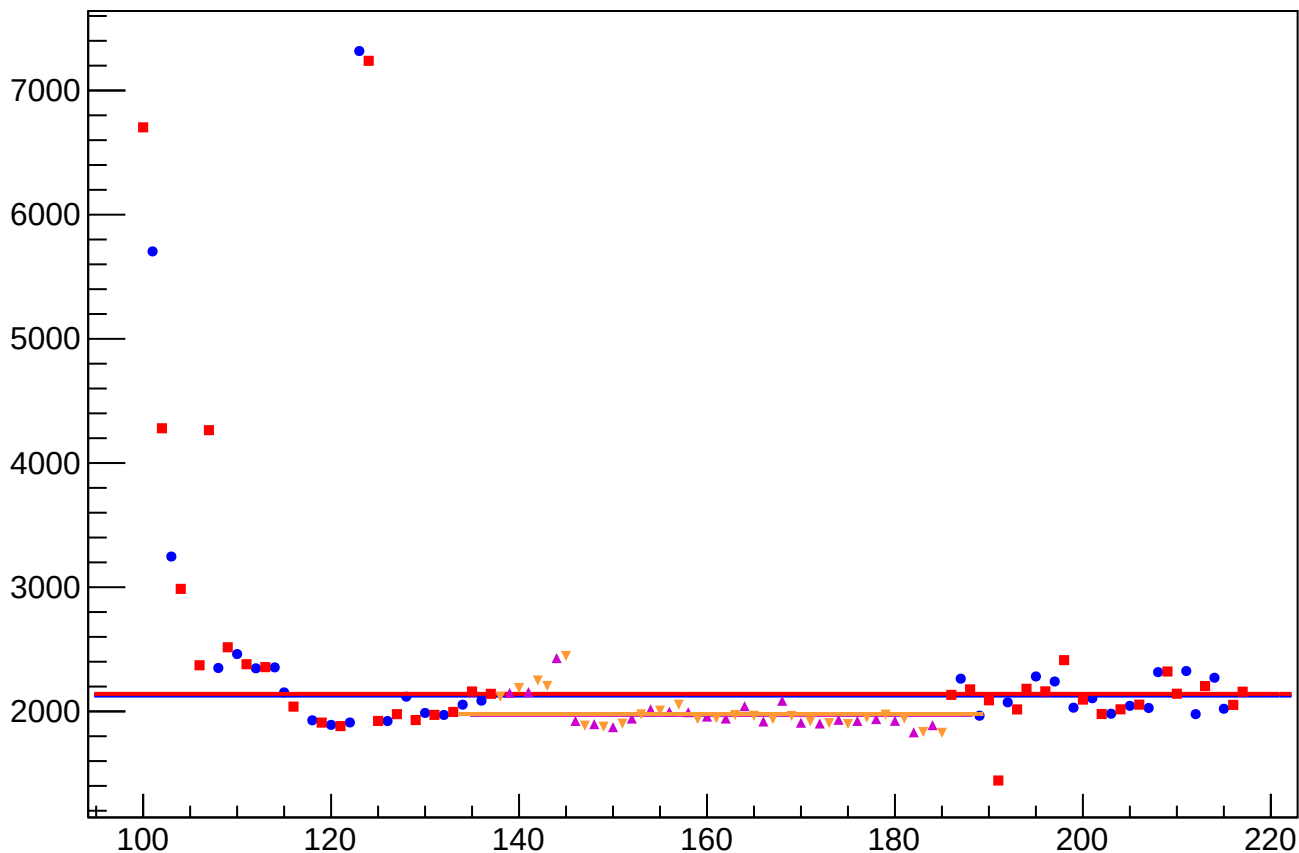
Right: 1870.971 $\pm$ 361.230 χ^2 /NDF: 67.2/67

In: 2213.544 $\pm$ 349.761 χ^2 /NDF:51.0/54

Out: 1694.528 $\pm$ 340.797 χ^2 /NDF:73.0/60

All: 1947.301 $\pm$ 244.087 χ^2 /NDF: 125.1/115

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2127.368+/-0.366 χ^2/NDF : 787704.8/31

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2141.134+/-0.356 χ^2/NDF : 954290.6/35

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

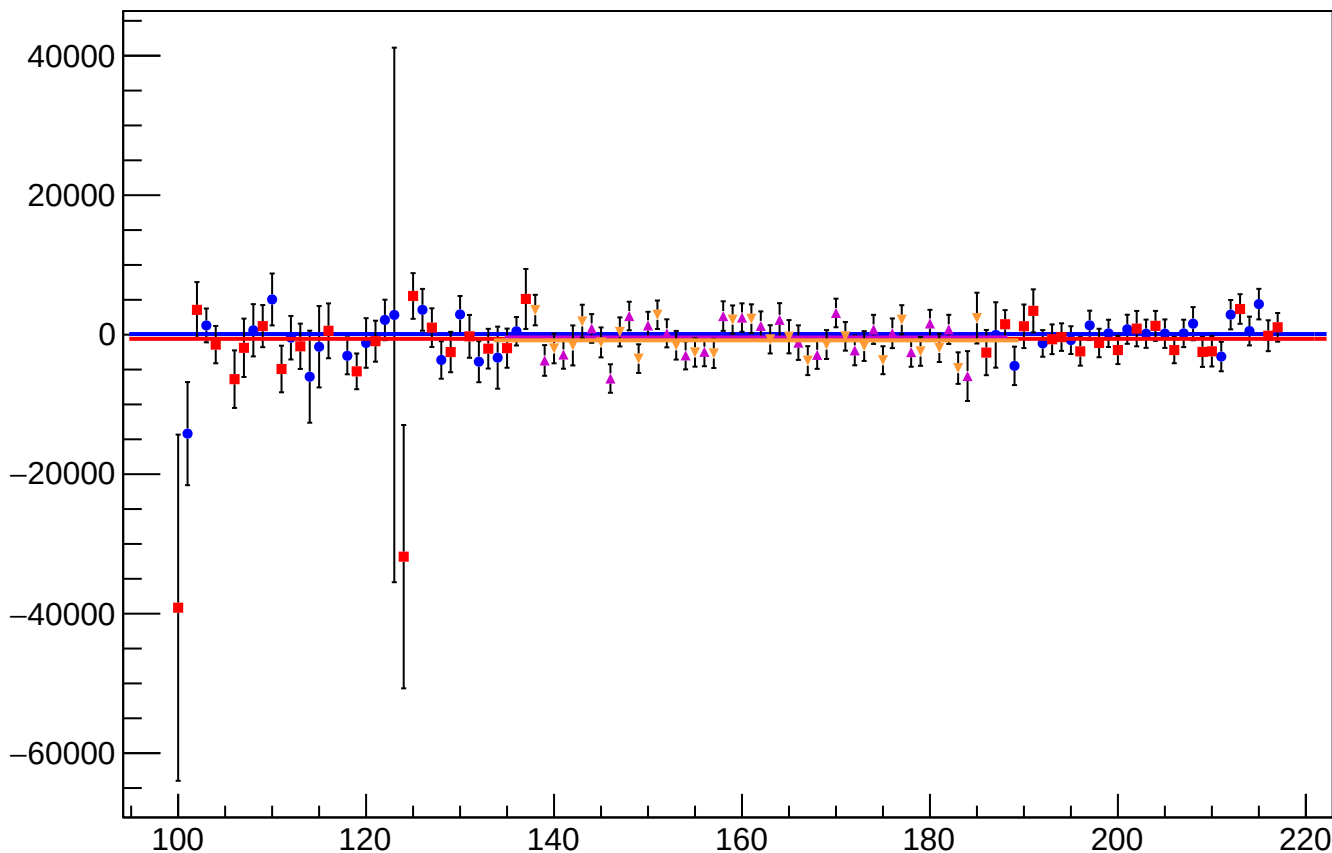
Right: 2134.444+/-0.255 χ^2/NDF : 1742721.0/67

In: 2042.881+/-0.247 χ^2/NDF :1001833.5/54

Out: 2053.174+/-0.241 χ^2/NDF :1205945.5/60

All: 2048.161+/-0.173 χ^2/NDF : 2208667.6/11

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 94.265+/-453.778 χ^2/NDF : 27.8/31

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -593.443+/-438.630 χ^2/NDF : 33.5/35

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

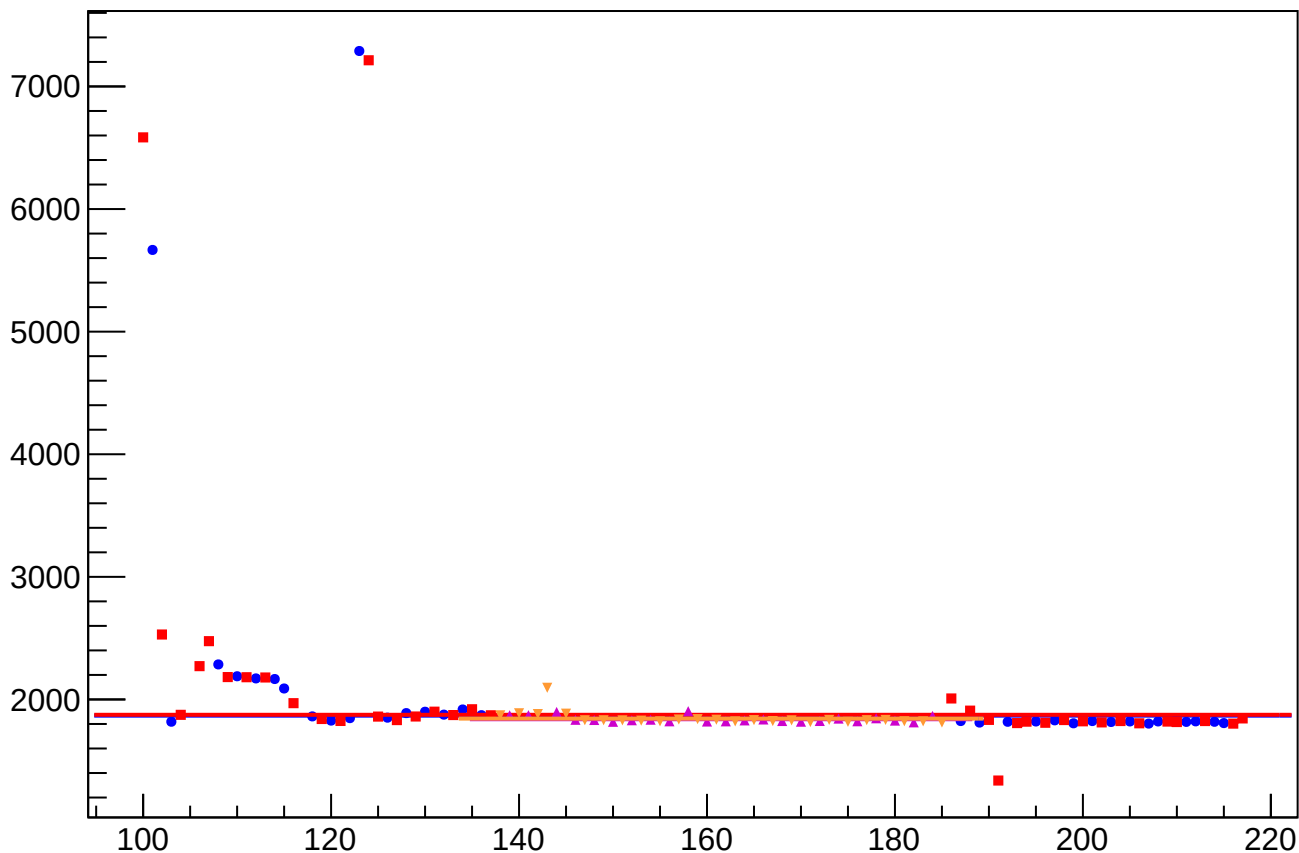
Right: -261.259+/-315.377 χ^2/NDF : 62.5/67

In: -159.169+/-316.346 χ^2/NDF : 62.8/54

Out: -702.999+/-307.172 χ^2/NDF : 61.5/60

All: -439.083+/-220.375 χ^2/NDF : 125.8/115

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1867.995 $\pm$ 0.321 χ^2 /NDF: 653135.2/31

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1874.887 $\pm$ 0.310 χ^2 /NDF: 488213.6/35

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

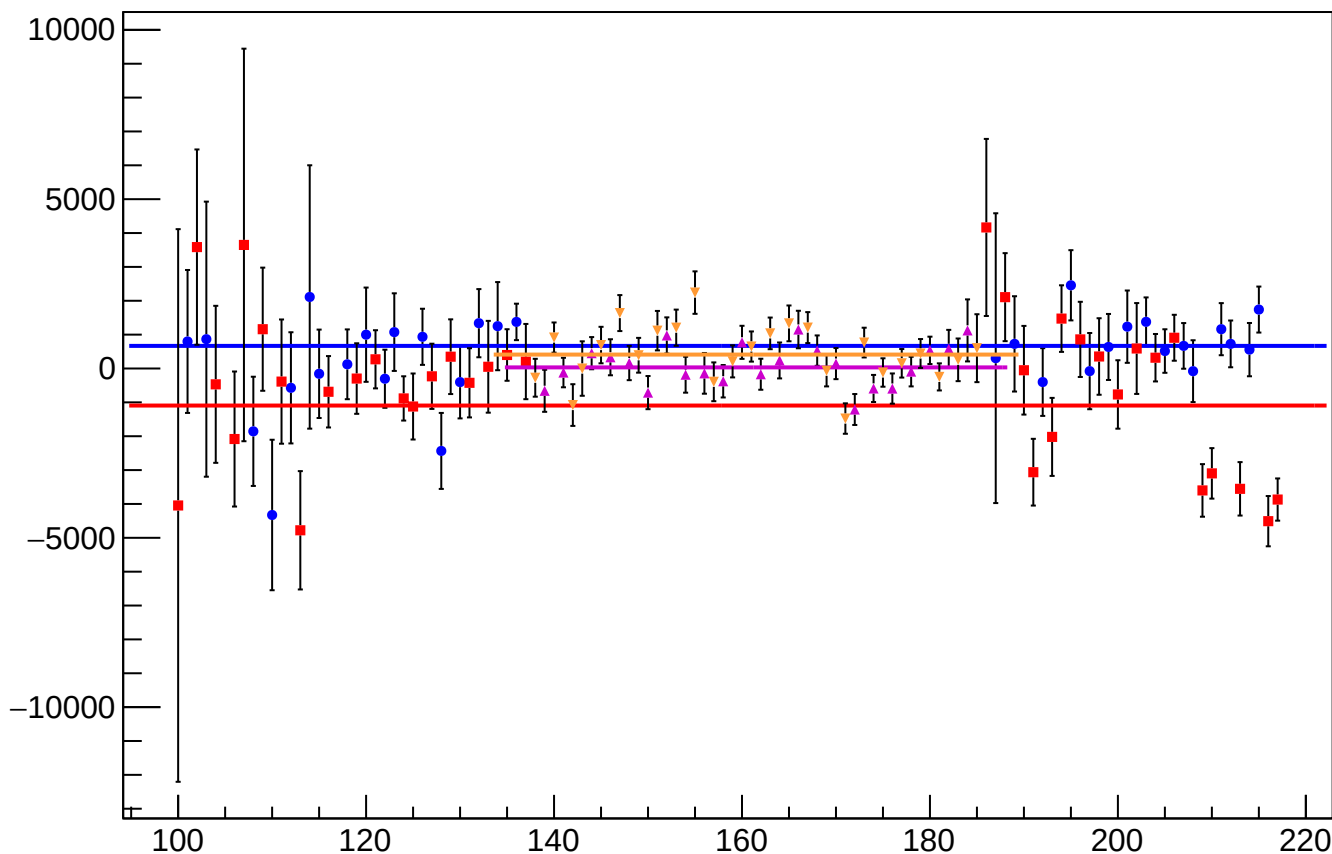
Right: 1871.558 $\pm$ 0.223 χ^2 /NDF: 1141587.3/67

In: 1852.891 $\pm$ 0.224 χ^2 /NDF: 663780.6/54

Out: 1859.019 $\pm$ 0.217 χ^2 /NDF: 520217.8/60

All: 1856.045 $\pm$ 0.156 χ^2 /NDF: 1184384.5/118

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 667.564 $\pm$ 171.131 χ^2 /NDF: 30.9/31

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF: 61.2/24

Right Out: -1094.078 $\pm$ 169.101 χ^2 /NDF: 131.9/35

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF: 32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

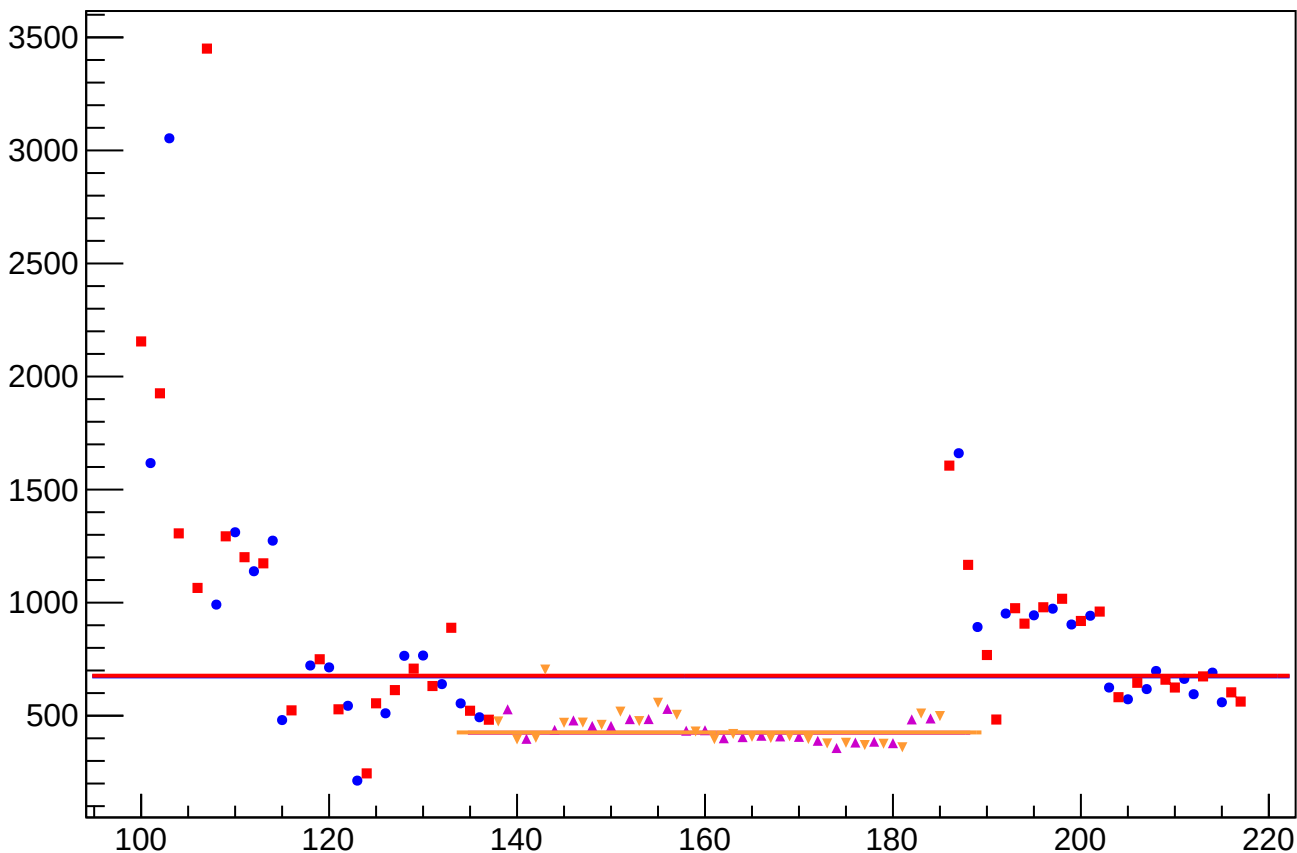
Right: -223.767 $\pm$ 120.284 χ^2 /NDF: 216.4/67

In: 199.910 $\pm$ 87.872 χ^2 /NDF: 73.8/54

Out: 18.453 $\pm$ 86.366 χ^2 /NDF: 251.6/60

All: 107.613 $\pm$ 61.596 χ^2 /NDF: 327.6/115

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 673.796 $\pm$ 0.121 χ^2 /NDF: 3287805.0/31

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 676.860 $\pm$ 0.120 χ^2 /NDF: 4442803.0/35

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF: 391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

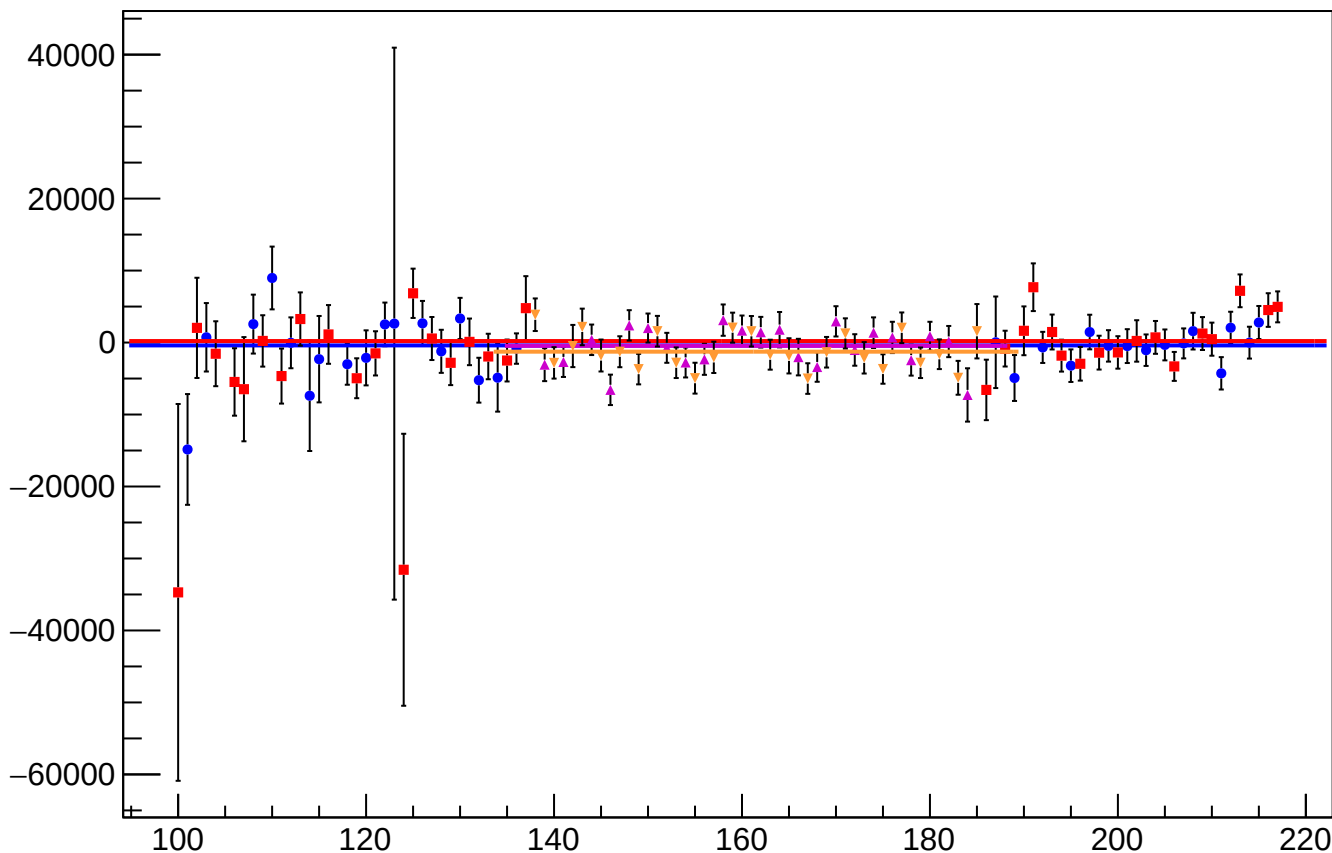
Right: 675.346 $\pm$ 0.085 χ^2 /NDF: 7730932.4/67

In: 490.332 $\pm$ 0.062 χ^2 /NDF: 6801153.7/54

Out: 491.457 $\pm$ 0.061 χ^2 /NDF: 8428525.9/60

All: 490.904 $\pm$ 0.044 χ^2 /NDF: 15229846.5/112

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -397.949+/-499.431 χ^2/NDF : 28.8/31

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: 209.032+/-488.875 χ^2/NDF : 53.3/35

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

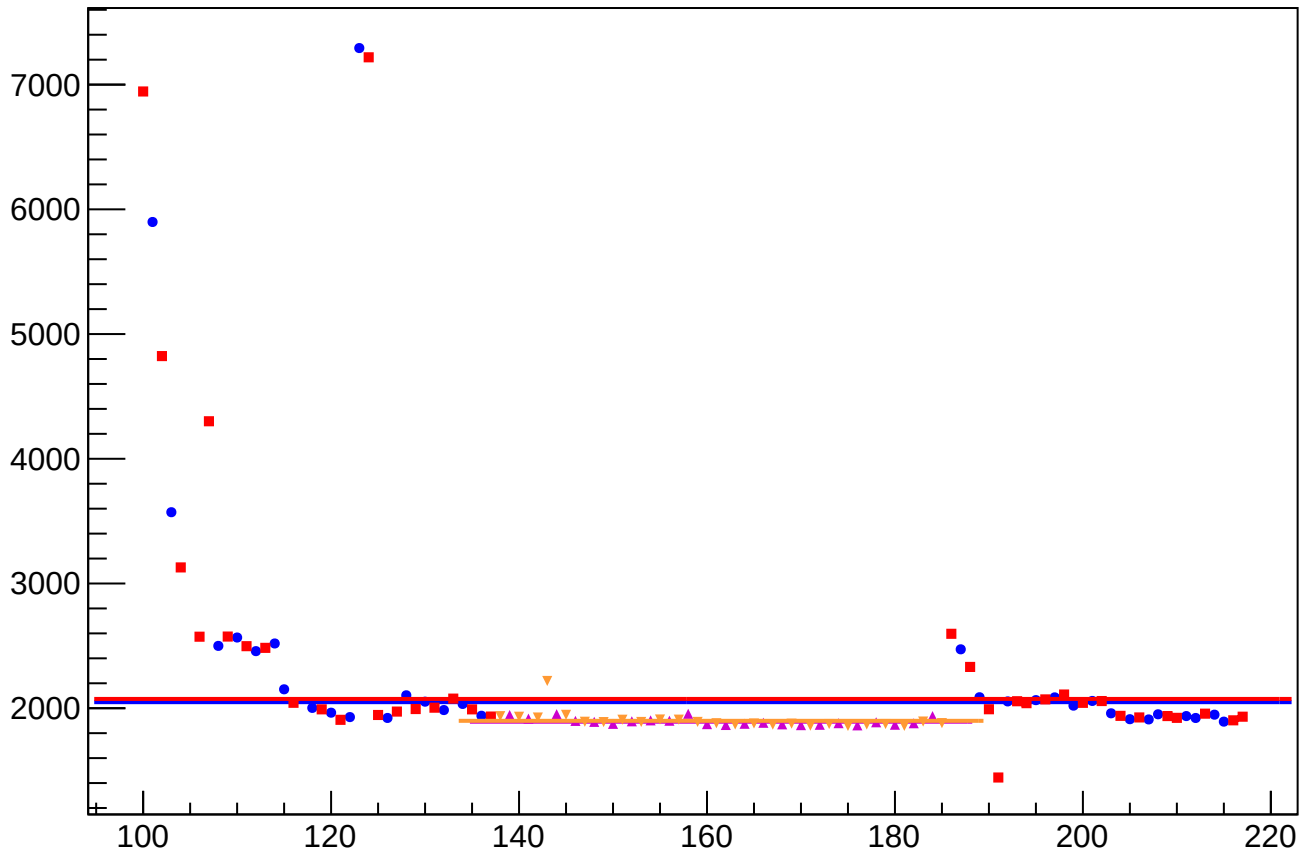
Right: -87.976+/-349.359 χ^2/NDF : 82.9/67

In: -433.351+/-335.921 χ^2/NDF :61.4/54

Out: -601.597+/-328.361 χ^2/NDF :89.2/60

All: -519.389+/-234.813 χ^2/NDF : 150.7/115

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2048.481 $\pm$ 0.353 χ^2/NDF : 903829.8/31

Left Out: 1898.962 $\pm$ 0.313 χ^2/NDF : 38680.4/24

Right Out: 2074.477 $\pm$ 0.346 χ^2/NDF : 1144052.5/35

Left In: 1891.693 $\pm$ 0.321 χ^2/NDF : 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2/NDF : 46363.6/47

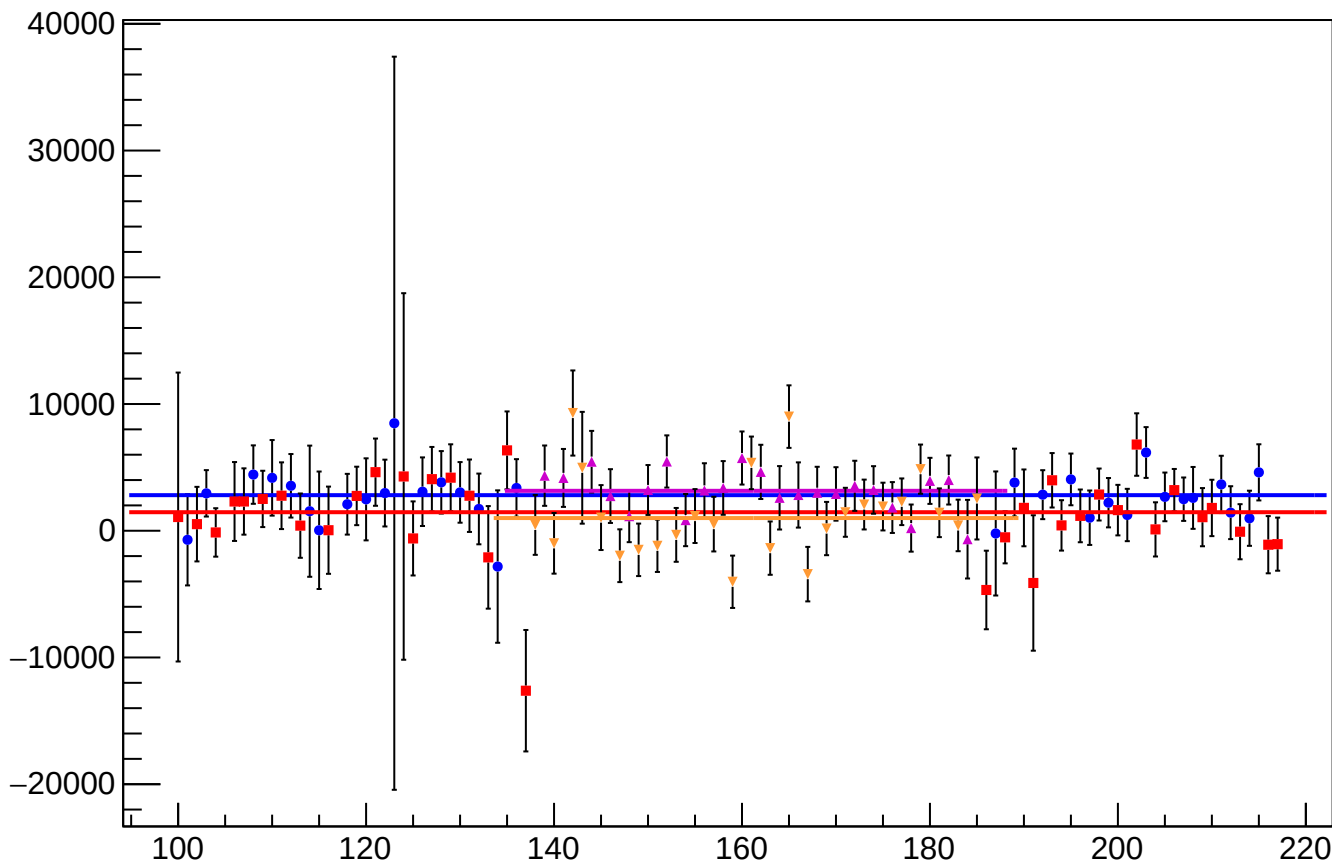
Right: 2061.757 $\pm$ 0.247 χ^2/NDF : 2050649.5/67

In: 1962.624 $\pm$ 0.238 χ^2/NDF : 1019187.8/54

Out: 1978.143 $\pm$ 0.232 χ^2/NDF : 1324225.0/60

All: 1970.560 $\pm$ 0.166 χ^2/NDF : 2345595.7/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2807.948 $\pm$ 429.012 χ^2 /NDF: 10.7/31

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF: 44.6/24

Right Out: 1462.745 $\pm$ 416.604 χ^2 /NDF: 35.9/35

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF: 11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

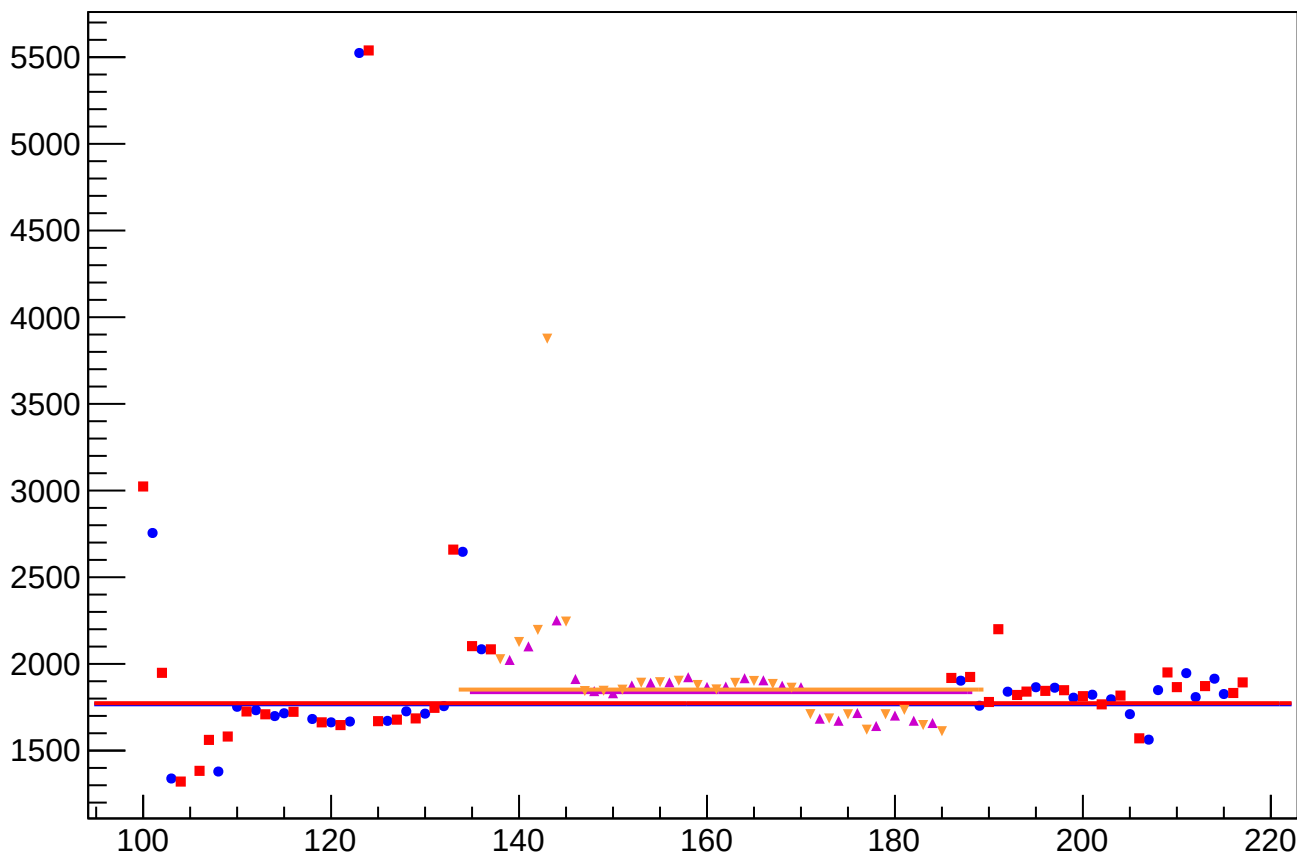
Right: 2115.613 $\pm$ 298.874 χ^2 /NDF: 51.6/67

In: 2974.418 $\pm$ 307.557 χ^2 /NDF: 22.8/54

Out: 1242.099 $\pm$ 300.959 χ^2 /NDF: 81.1/60

All: 2089.476 $\pm$ 215.105 χ^2 /NDF: 120.1/115

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1767.036 $\pm$ 0.303 χ^2 /NDF: 516761.6/31

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1773.459 $\pm$ 0.295 χ^2 /NDF: 579380.3/35

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

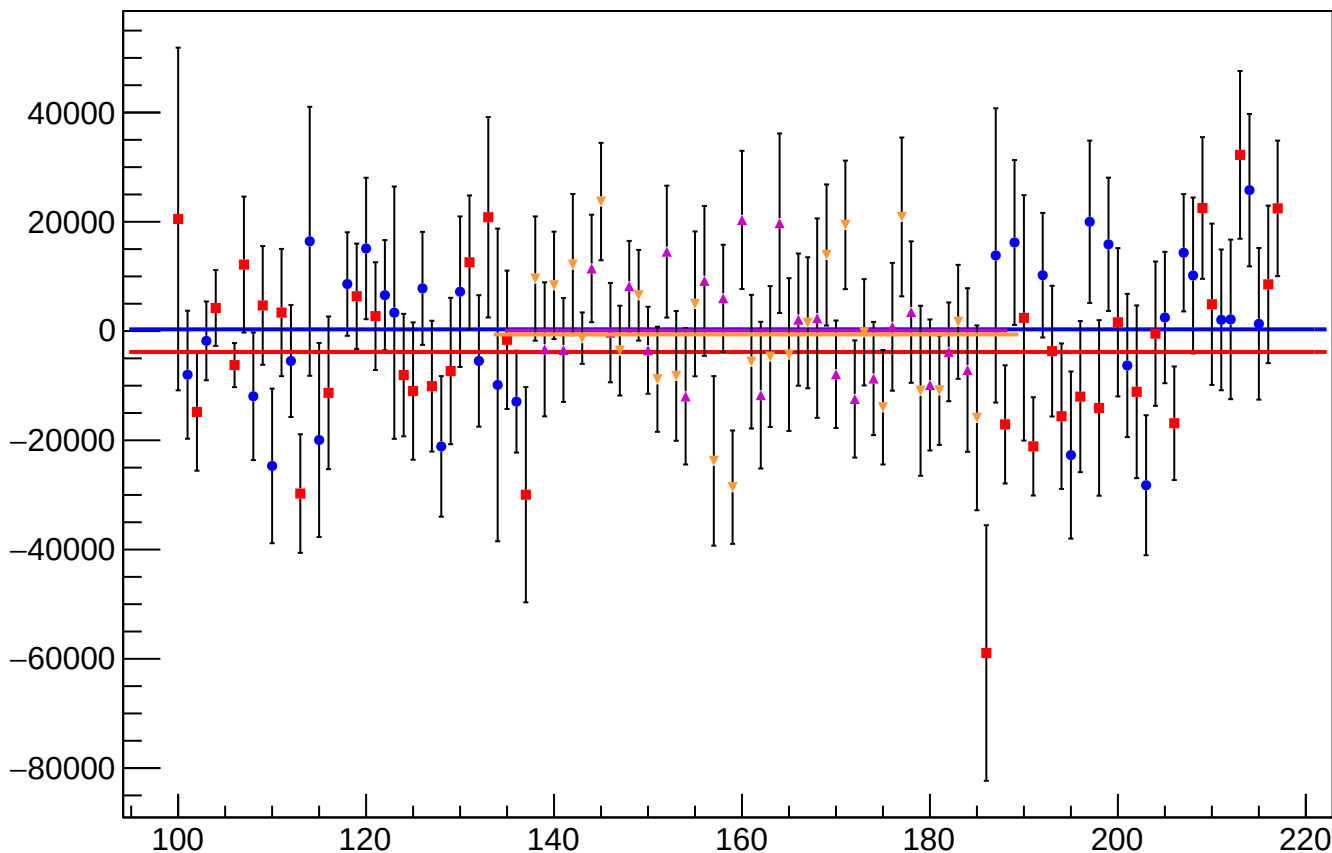
Right: 1770.342 $\pm$ 0.211 χ^2 /NDF: 1096372.6/67

In: 1801.116 $\pm$ 0.217 χ^2 /NDF: 743240.8/54

Out: 1810.992 $\pm$ 0.213 χ^2 /NDF: 1262286.2/60

All: 1806.161 $\pm$ 0.152 χ^2 /NDF: 2006580.4/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 311.329 ± 2210.263 $\chi^2/\text{NDF}: 33.8/31$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -3827.312 ± 1853.637 $\chi^2/\text{NDF}: 49.3/35$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

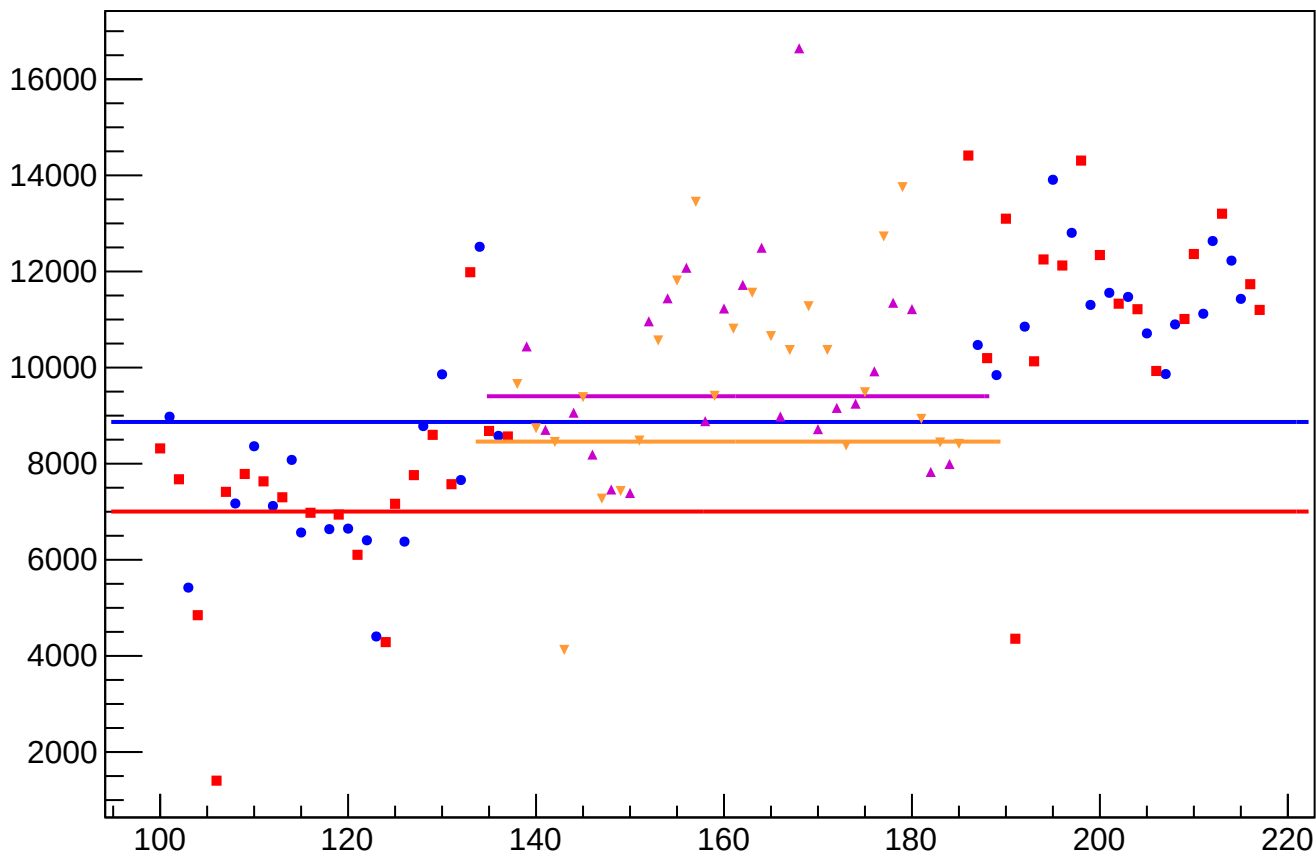
Right: -2118.401 ± 1420.283 $\chi^2/\text{NDF}: 85.2/67$

In: 206.375 ± 1591.614 $\chi^2/\text{NDF}: 48.5/54$

Out: -2399.462 ± 1380.806 $\chi^2/\text{NDF}: 80.8/60$

All: -1280.428 ± 1043.003 $\chi^2/\text{NDF}: 130.8/111$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8868.400+/-1.563 χ^2/NDF : 2302078.6/31

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 7004.423+/-1.311 χ^2/NDF : 8324673.2/35

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

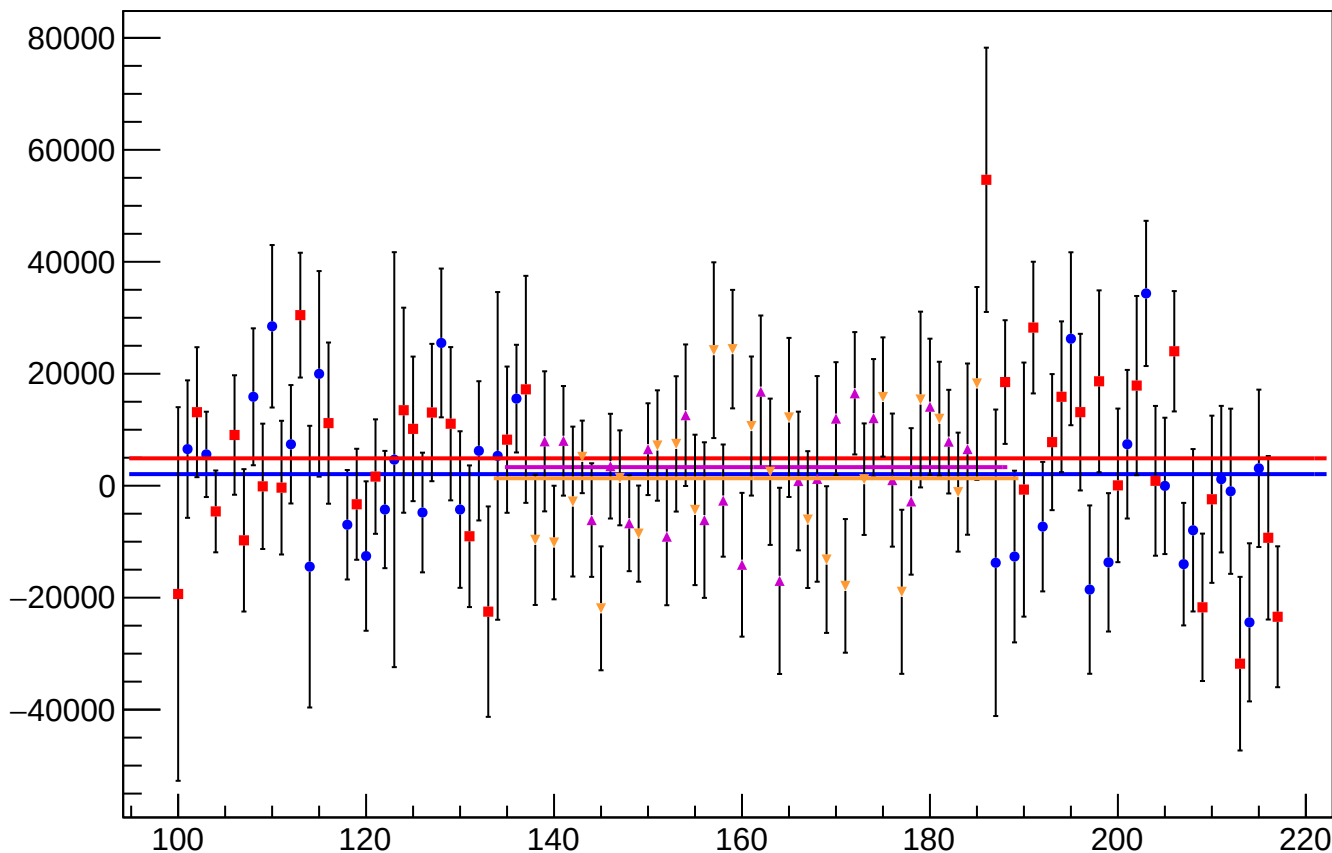
Right: 7774.089+/-1.004 χ^2/NDF : 11461822.8/67

In: 9126.017+/-1.125 χ^2/NDF : 3501158.8/54

Out: 7652.281+/-0.976 χ^2/NDF : 11960761.0/60

All: 8285.153+/-0.738 χ^2/NDF : 16440283.4/117

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2068.296+/-2277.345 χ^2/NDF : 35.3/31

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 4890.679+/-2146.079 χ^2/NDF : 47.3/35

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

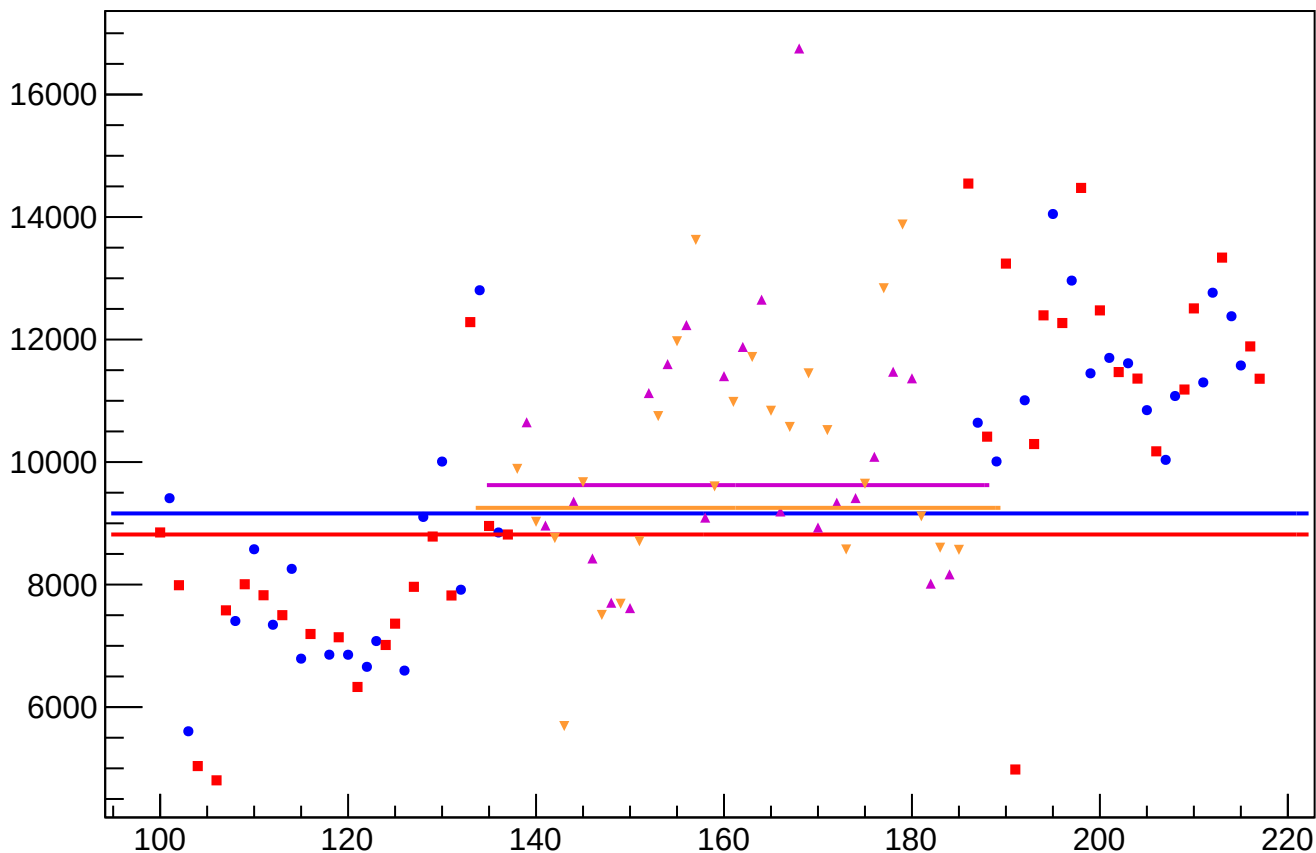
Right: 3563.168+/-1561.852 χ^2/NDF : 83.4/67

In: 2674.452+/-1633.566 χ^2/NDF : 49.2/54

Out: 3166.950+/-1540.870 χ^2/NDF : 76.7/60

All: 2935.070+/-1120.898 χ^2/NDF : 125.9/115

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9161.393 ± 1.610 χ^2/NDF : 2068761.1/31

Left Out: 9252.712 ± 1.565 χ^2/NDF : 1597668.9/24

Right Out: 8817.744 ± 1.517 χ^2/NDF : 3047838.9/35

Left In: 9623.485 ± 1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467 ± 1.138 χ^2/NDF : 2694036.4/47

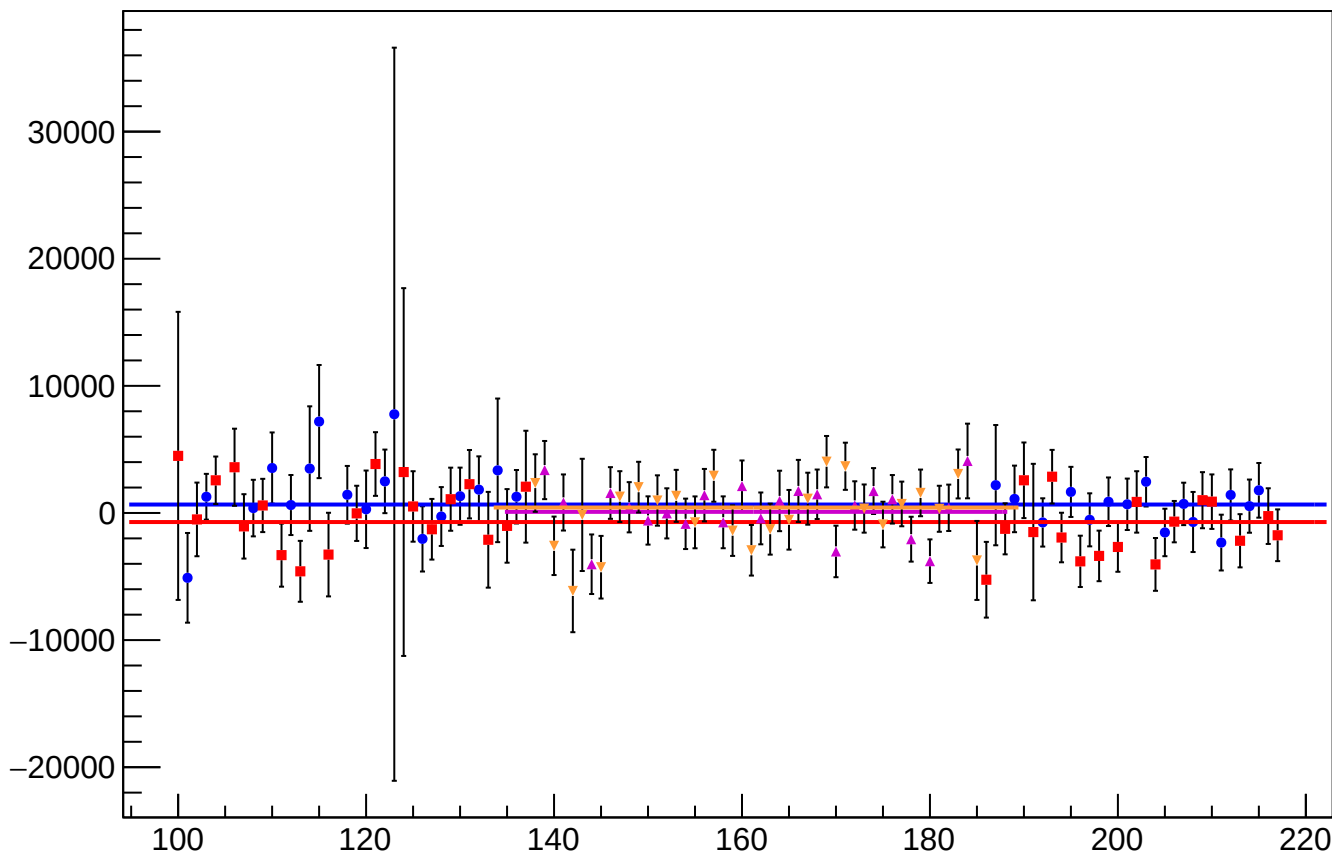
Right: 8979.367 ± 1.104 χ^2/NDF : 5140723.3/67

In: 9385.719 ± 1.155 χ^2/NDF : 3178660.6/54

Out: 9028.460 ± 1.090 χ^2/NDF : 4685316.1/60

All: 9196.659 ± 0.793 χ^2/NDF : 7914599.5/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 663.768+/-413.293 χ^2/NDF : 15.1/31

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -713.603+/-401.685 χ^2/NDF : 33.1/35

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

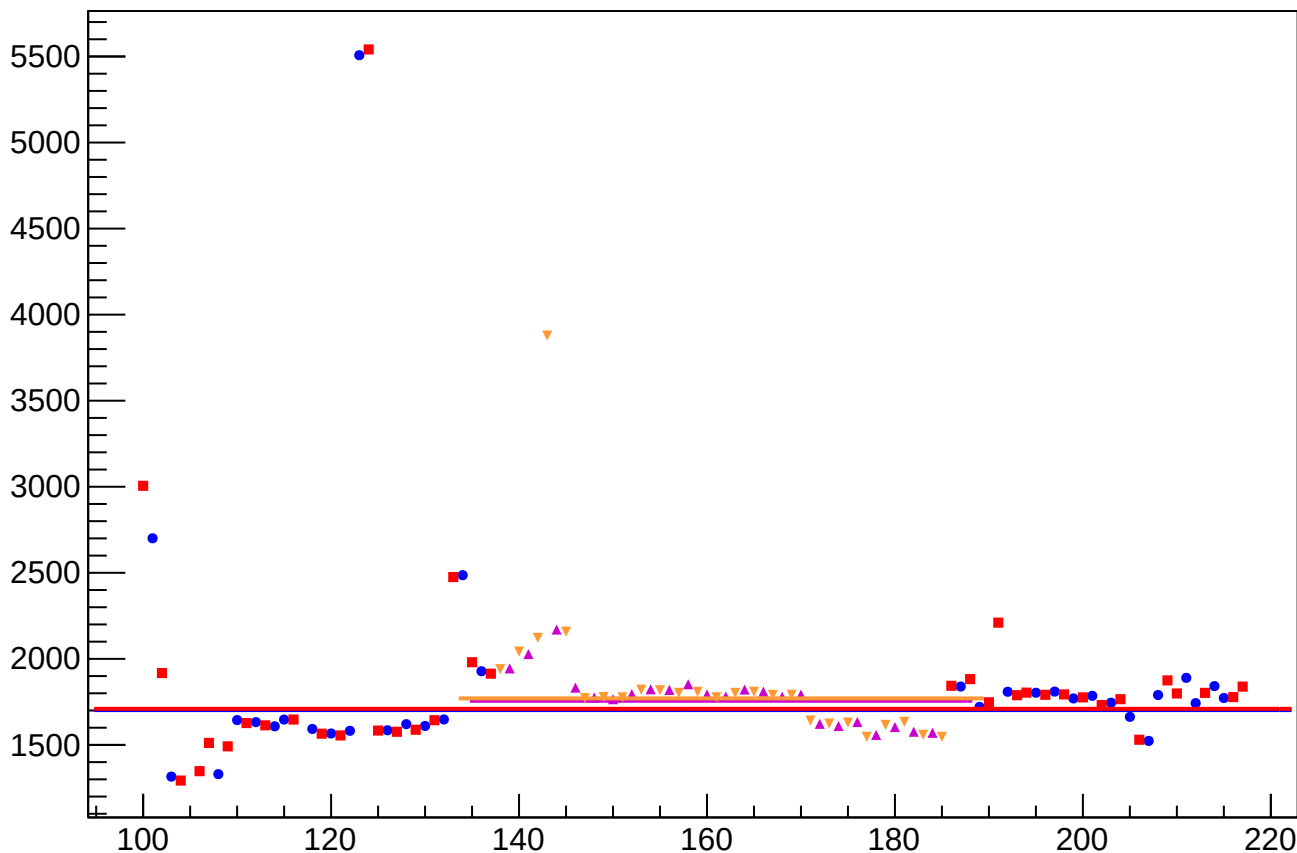
Right: -44.532+/-288.050 χ^2/NDF : 53.9/67

In: 382.039+/-295.258 χ^2/NDF : 37.0/54

Out: -162.602+/-289.089 χ^2/NDF : 65.7/60

All: 103.969+/-206.563 χ^2/NDF : 104.4/115

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1702.383 $\pm$ 0.292 χ^2 /NDF: 510827.0/31

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1709.798 $\pm$ 0.284 χ^2 /NDF: 589854.9/35

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

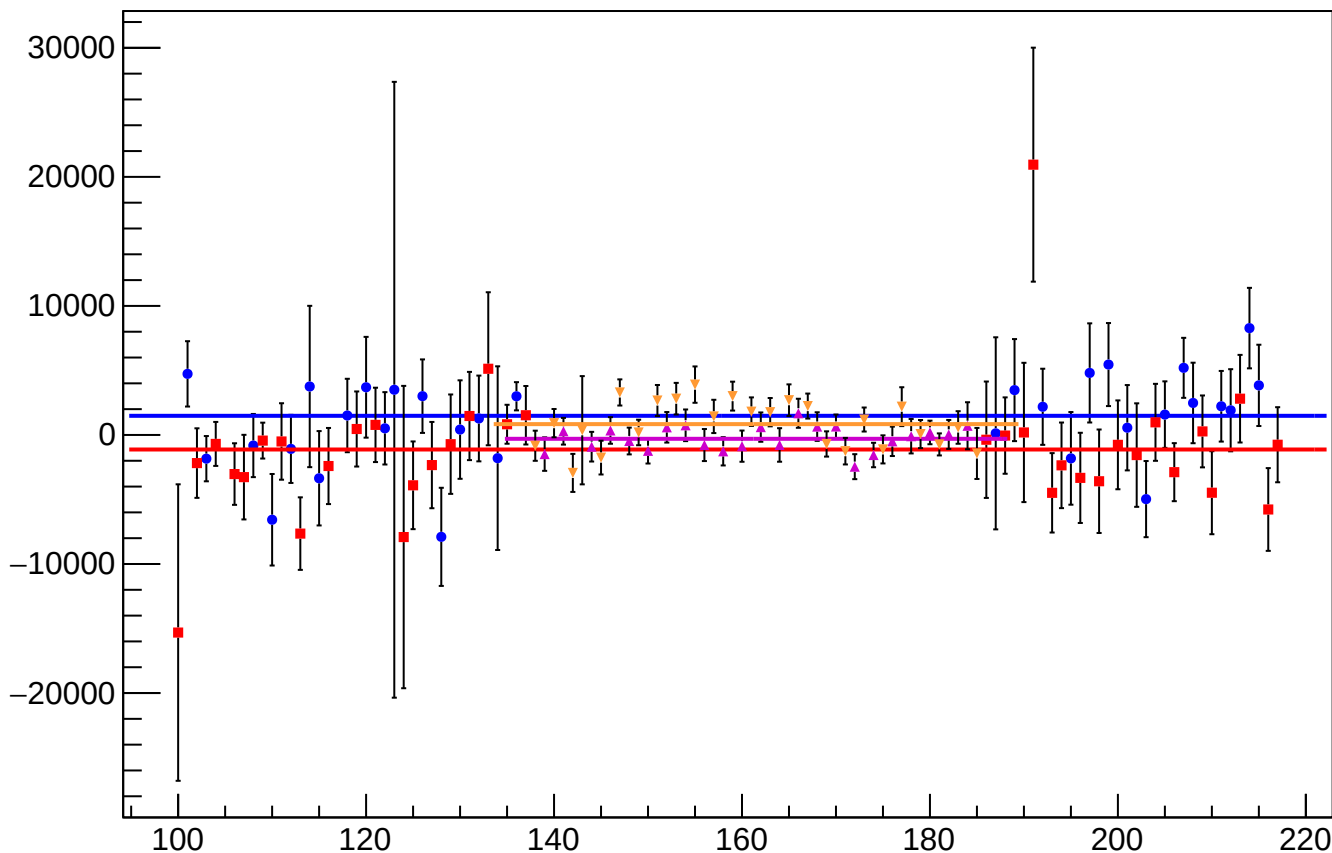
Right: 1706.197 $\pm$ 0.204 χ^2 /NDF: 1101012.9/67

In: 1728.941 $\pm$ 0.209 χ^2 /NDF: 750770.6/54

Out: 1739.003 $\pm$ 0.204 χ^2 /NDF: 1311324.1/60

All: 1734.078 $\pm$ 0.146 χ^2 /NDF: 2063280.7/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1483.921 $\pm$ 498.955 χ^2/NDF : 39.5/31

Left Out: 839.344 $\pm$ 230.465 χ^2/NDF : 54.4/24

Right Out: -1126.935 $\pm$ 476.561 χ^2/NDF : 29.5/35

Left In: -298.801 $\pm$ 231.400 χ^2/NDF : 18.3/22

Left: 272.574 $\pm$ 163.293 χ^2/NDF : 84.9/47

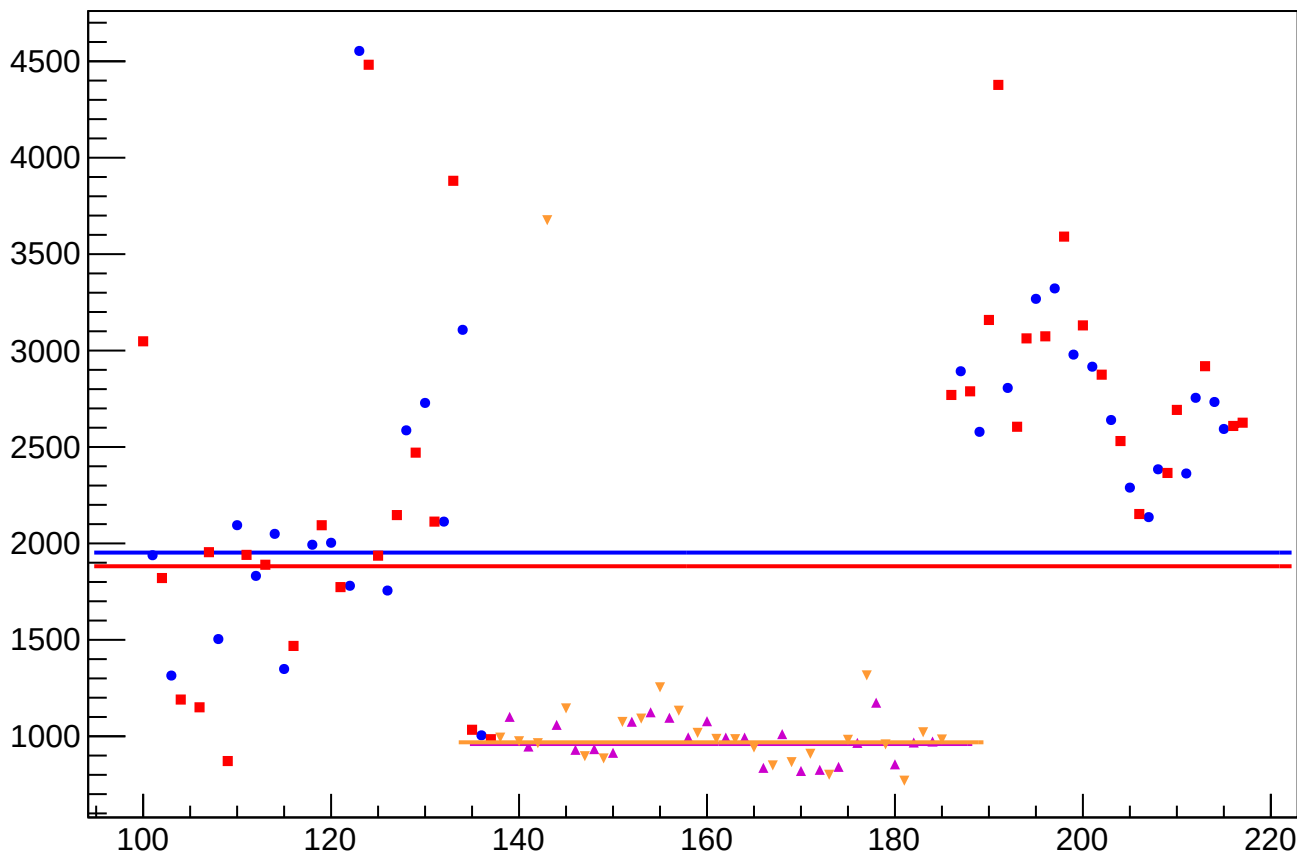
Right: 118.589 $\pm$ 344.624 χ^2/NDF : 83.3/67

In: 16.758 $\pm$ 209.923 χ^2/NDF : 68.4/54

Out: 466.652 $\pm$ 207.477 χ^2/NDF : 97.7/60

All: 244.341 $\pm$ 147.566 χ^2/NDF : 168.3/115

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1952.471+/-0.353 χ^2/NDF : 3853795.5/31

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1881.587+/-0.337 χ^2/NDF : 5595403.0/35

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

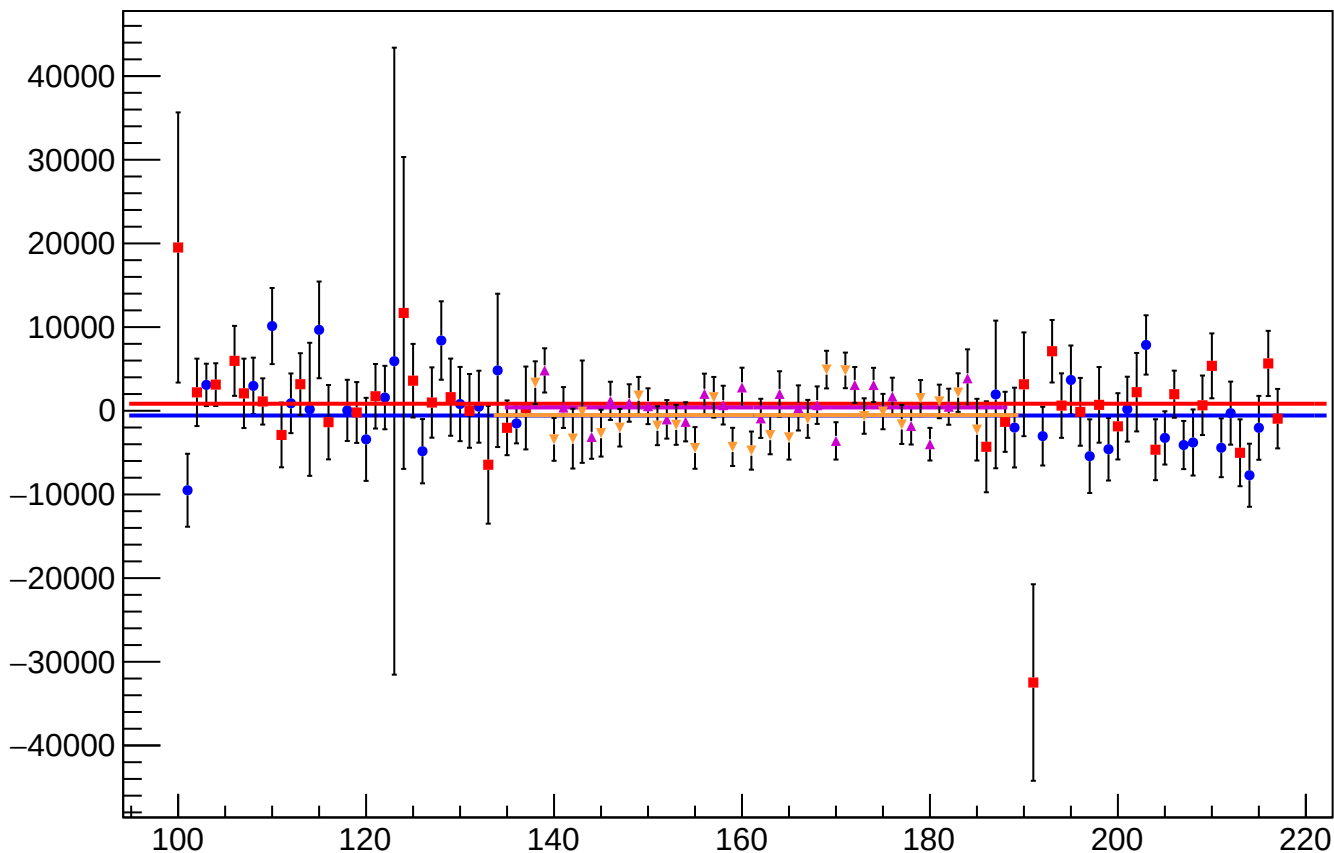
Right: 1915.402+/-0.244 χ^2/NDF : 9470307.1/67

In: 1135.516+/-0.148 χ^2/NDF : 10739913.4/54

Out: 1141.740+/-0.147 χ^2/NDF : 12936769.9/60

All: 1138.664+/-0.104 χ^2/NDF : 23677572.5/121

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -566.497 ± 689.893 $\chi^2/\text{NDF}: 40.1/31$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 840.634 ± 671.029 $\chi^2/\text{NDF}: 28.8/35$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

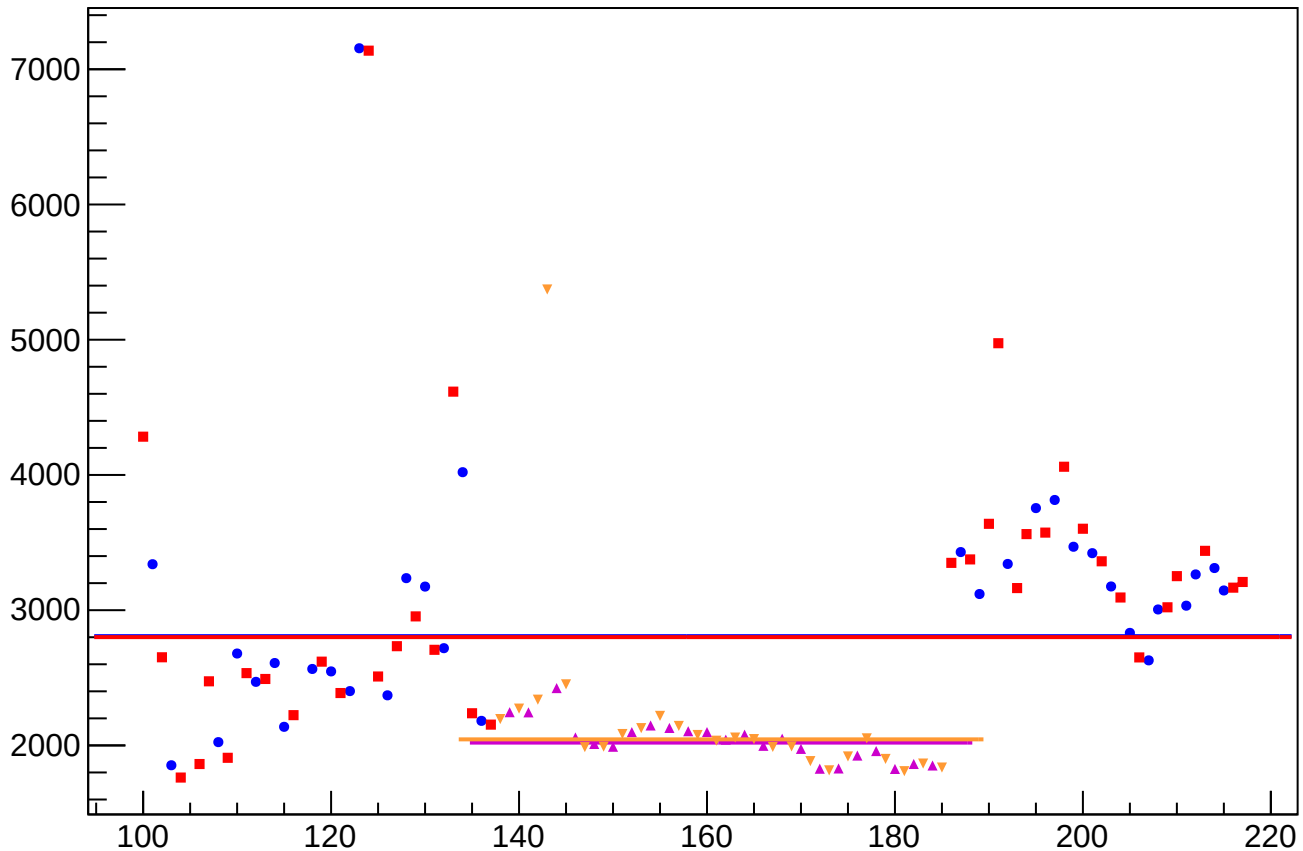
Right: 156.569 ± 481.020 $\chi^2/\text{NDF}: 71.1/67$

In: 78.544 ± 396.792 $\chi^2/\text{NDF}: 63.2/54$

Out: -56.054 ± 391.199 $\chi^2/\text{NDF}: 65.6/60$

All: 10.289 ± 278.576 $\chi^2/\text{NDF}: 128.9/115$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2808.005+/-0.488 χ^2/NDF : 1275472.5/31

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2800.796+/-0.474 χ^2/NDF : 1865700.0/35

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

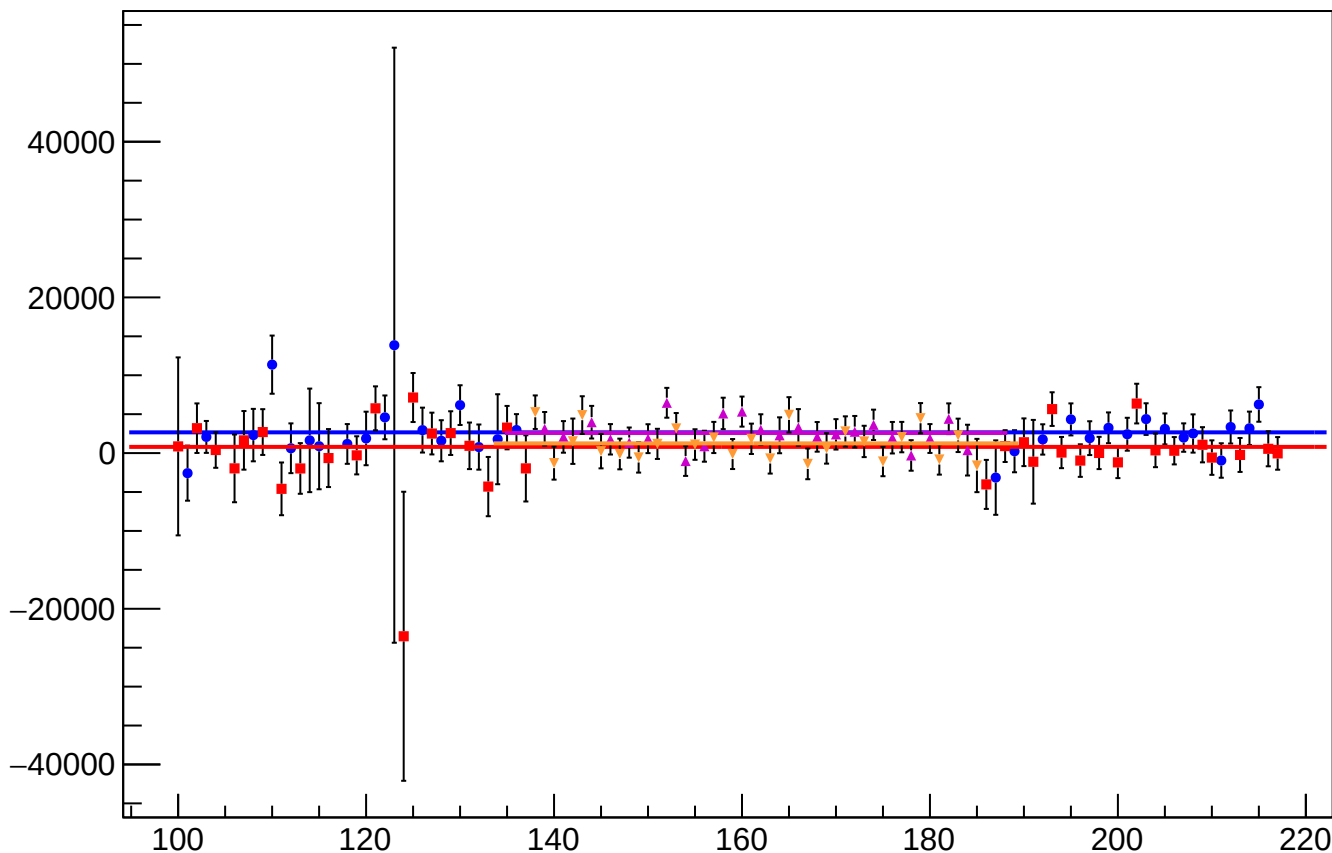
Right: 2804.300+/-0.340 χ^2/NDF : 3141284.7/67

In: 2281.207+/-0.281 χ^2/NDF : 3191577.7/54

Out: 2301.691+/-0.277 χ^2/NDF : 4330531.3/60

All: 2291.595+/-0.197 χ^2/NDF : 7524811.8/11

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2664.687 $\pm$ 448.142 χ^2 /NDF: 21.4/31

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 797.216 $\pm$ 438.752 χ^2 /NDF: 32.9/35

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

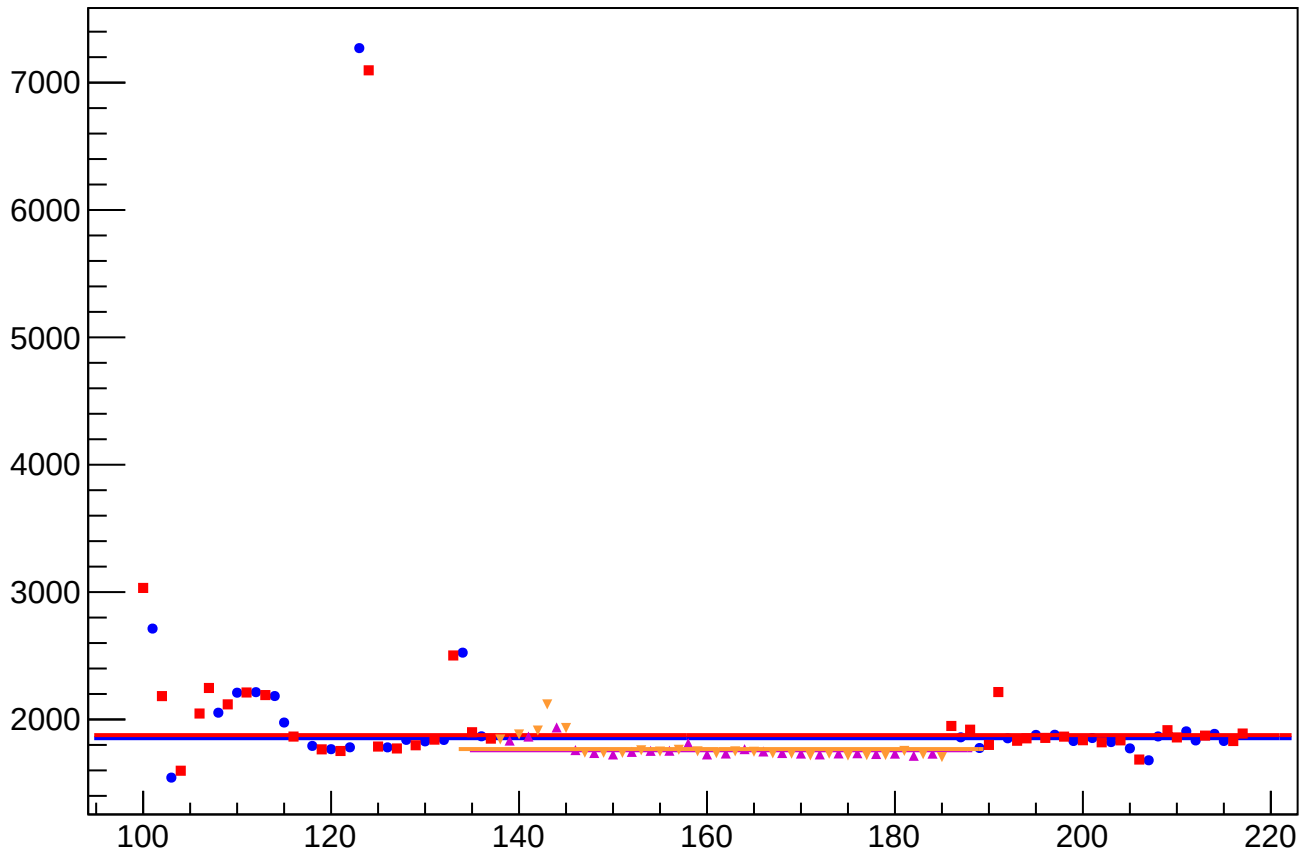
Right: 1711.183 $\pm$ 313.512 χ^2 /NDF: 63.2/67

In: 2623.433 $\pm$ 307.036 χ^2 /NDF:38.9/54

Out: 1037.522 $\pm$ 300.528 χ^2 /NDF:56.5/60

All: 1813.493 $\pm$ 214.770 χ^2 /NDF: 109.0/115

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1852.849 $\pm$ 0.317 χ^2 /NDF: 319647.5/31

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1877.028 $\pm$ 0.310 χ^2 /NDF: 410722.2/35

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

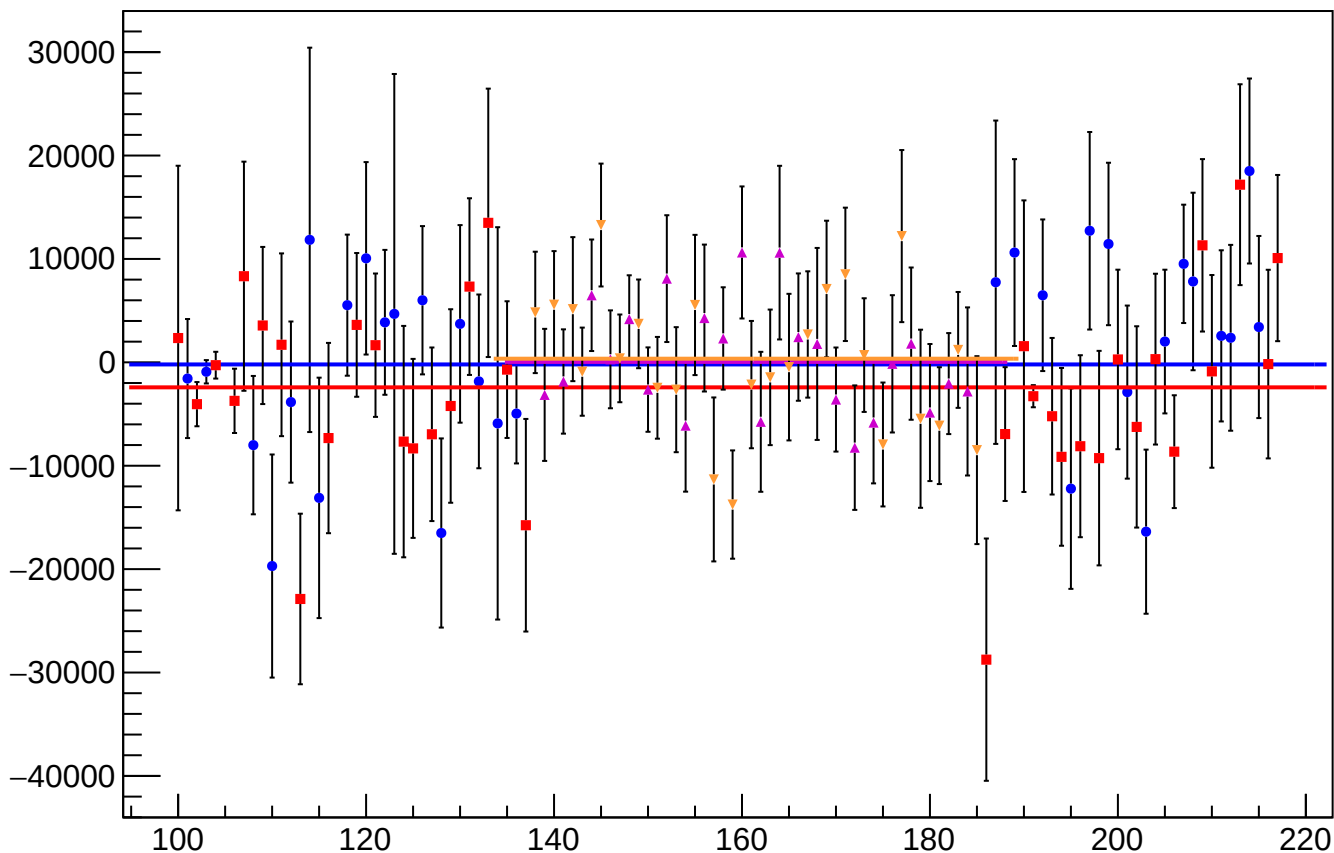
Right: 1865.201 $\pm$ 0.222 χ^2 /NDF: 733343.9/67

In: 1802.563 $\pm$ 0.217 χ^2 /NDF: 396914.0/54

Out: 1818.926 $\pm$ 0.212 χ^2 /NDF: 554575.4/60

All: 1810.922 $\pm$ 0.152 χ^2 /NDF: 954391.3/115

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -203.227 $\pm$ 894.342 χ^2 /NDF: 35.4/31

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2419.388 $\pm$ 670.310 χ^2 /NDF: 37.3/35

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

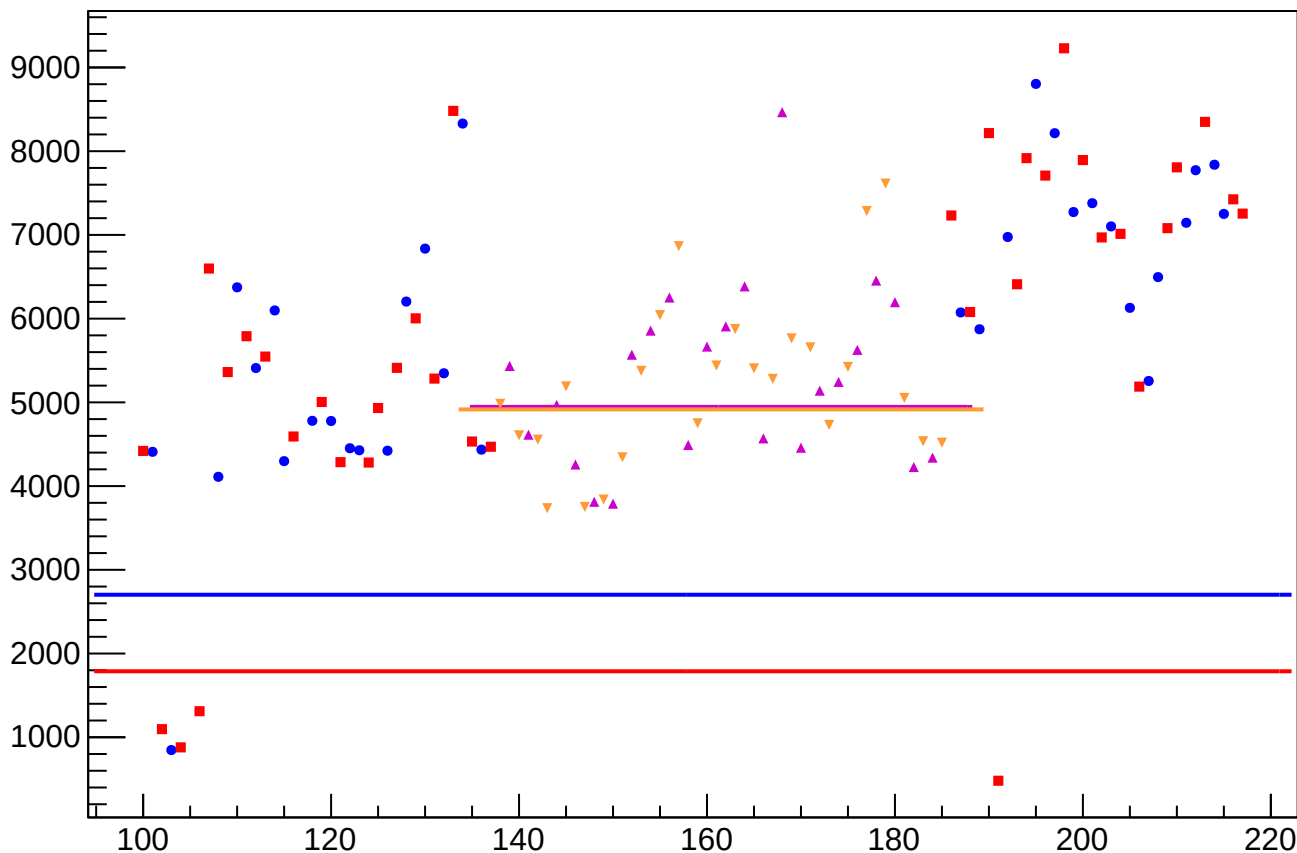
Right: -1622.250 $\pm$ 536.376 χ^2 /NDF: 76.6/67

In: -116.846 $\pm$ 718.682 χ^2 /NDF:51.4/54

Out: -1734.762 $\pm$ 581.626 χ^2 /NDF:69.3/60

All: -1094.464 $\pm$ 452.116 χ^2 /NDF: 123.8/115

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2702.255+/-0.632

χ^2/NDF : 16153306.8/31

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 2116.860+/-0.379

χ^2/NDF : 39572607.7/67

Right Out: 1788.014+/-0.474

χ^2/NDF : 22081063.4/35

In: 3497.030+/-0.508

χ^2/NDF : 21800258.0/54

Out: 2560.914+/-0.411

χ^2/NDF : 34028433.9/60

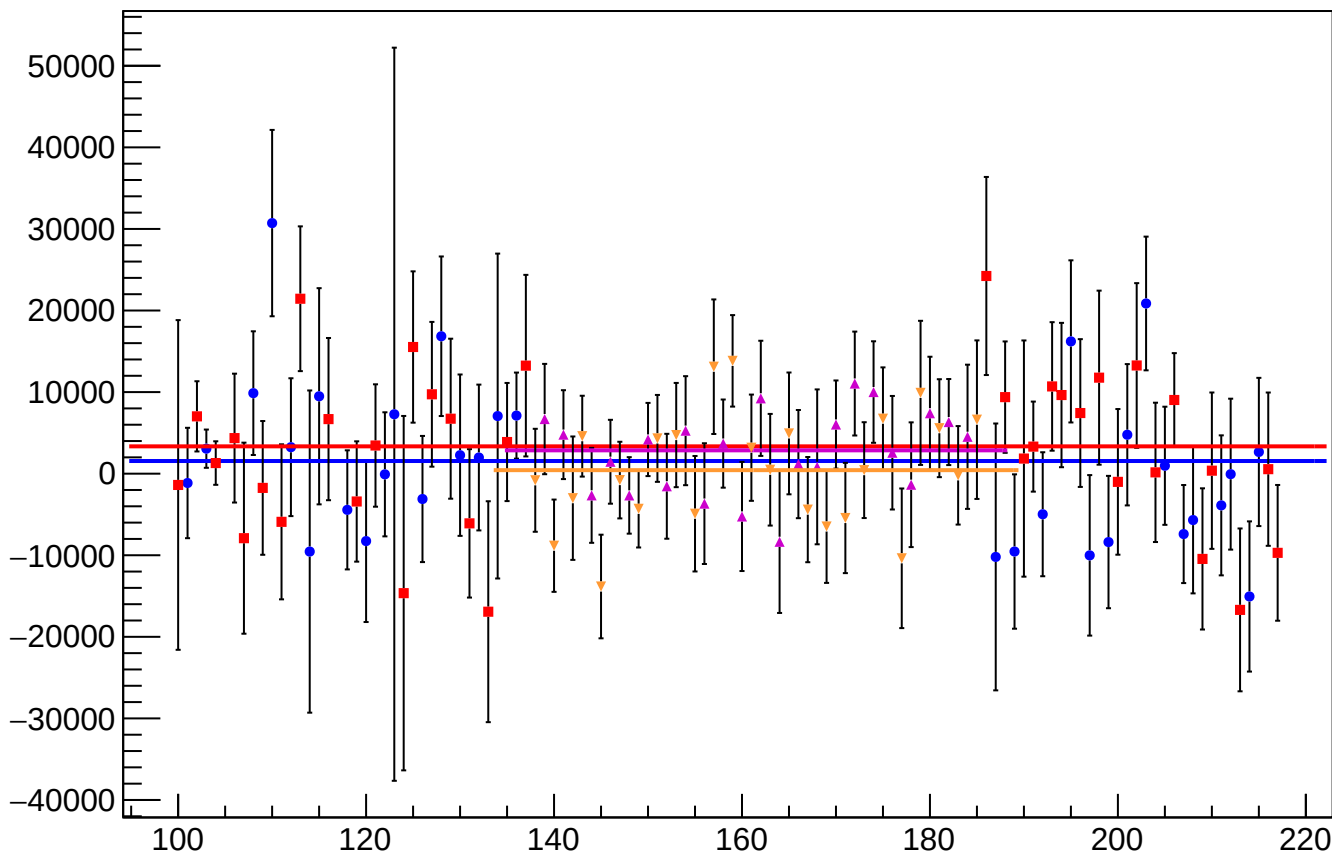
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2931.386+/-0.320

χ^2/NDF : 57879045.4/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1551.841 $\pm$ 1301.299 χ^2 /NDF: 34.7/31

Left Out: 430.860 $\pm$ 1258.273 χ^2 /NDF: 27.1/24

Right Out: 3348.706 $\pm$ 1261.022 χ^2 /NDF: 33.4/35

Left In: 2860.252 $\pm$ 1292.328 χ^2 /NDF: 12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2 /NDF: 41.8/47

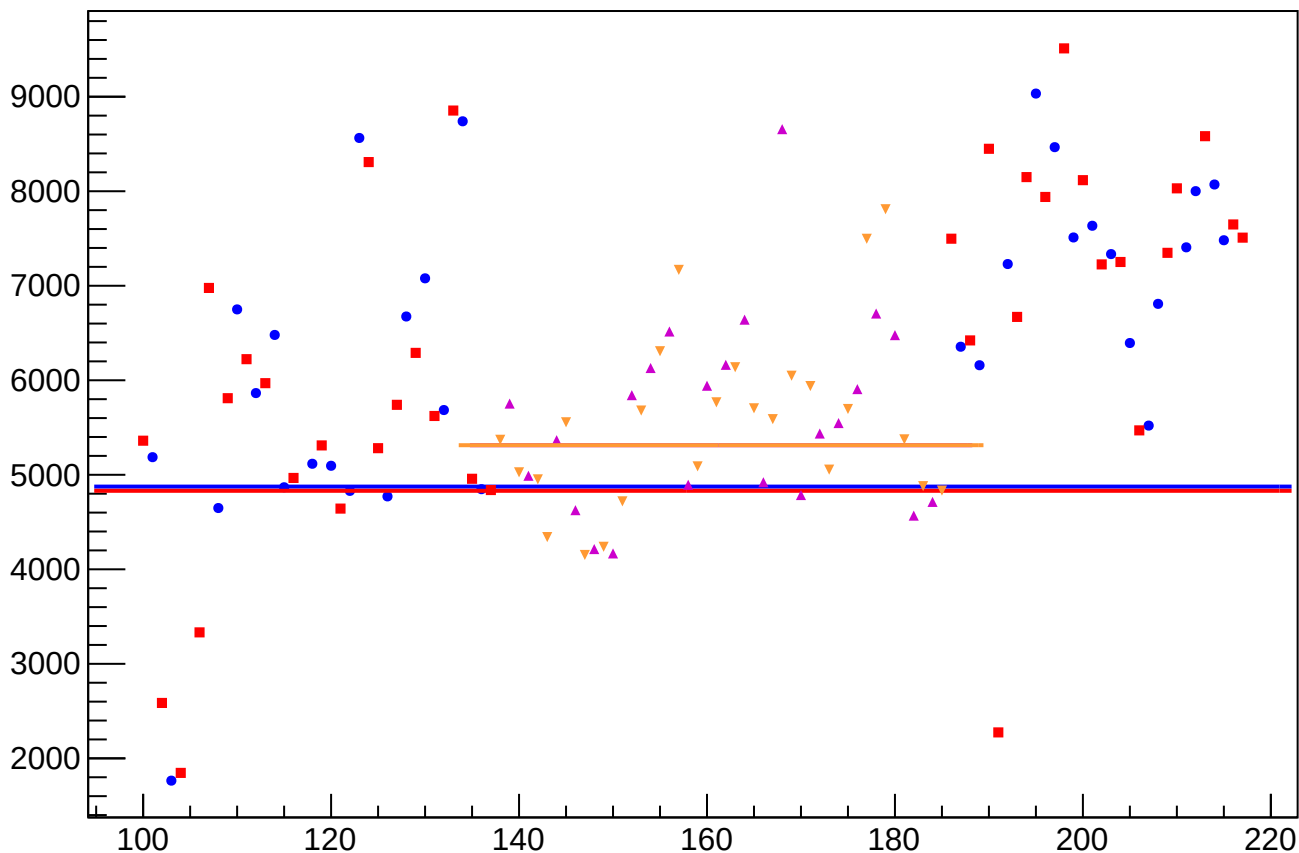
Right: 2478.511 $\pm$ 905.582 χ^2 /NDF: 69.1/67

In: 2210.572 $\pm$ 916.969 χ^2 /NDF: 48.1/54

Out: 1886.599 $\pm$ 890.704 χ^2 /NDF: 63.2/60

All: 2043.879 $\pm$ 638.907 χ^2 /NDF: 111.4/115

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4875.131 ± 0.920 $\chi^2/\text{NDF}: 6364595.8/31$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 4830.651 ± 0.888 $\chi^2/\text{NDF}: 7040555.6/35$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

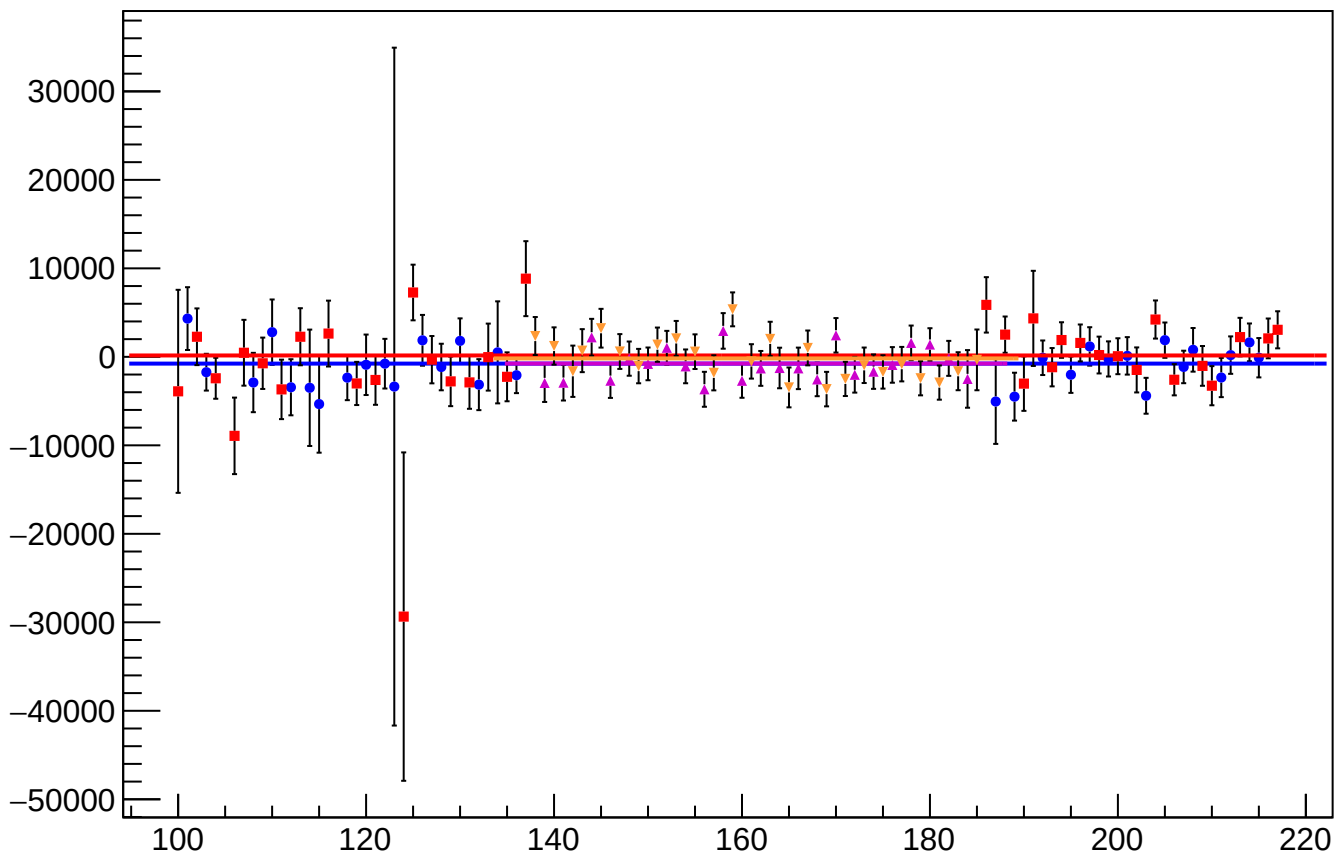
Right: 4852.101 ± 0.639 $\chi^2/\text{NDF}: 13406361.2/67$

In: 5095.510 ± 0.648 $\chi^2/\text{NDF}: 7435930.2/54$

Out: 5071.363 ± 0.629 $\chi^2/\text{NDF}: 8082165.8/60$

All: 5083.061 ± 0.451 $\chi^2/\text{NDF}: 15518811.0/1$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -764.540 $\pm$ 447.803 χ^2 /NDF: 20.3/31

Left Out: -179.794 $\pm$ 410.976 χ^2 /NDF:29.3/24

Right Out: 155.814 $\pm$ 438.357 χ^2 /NDF: 46.5/35

Left In: -759.753 $\pm$ 419.905 χ^2 /NDF:20.3/22

Left: -463.542 $\pm$ 293.710 χ^2 /NDF: 50.5/47

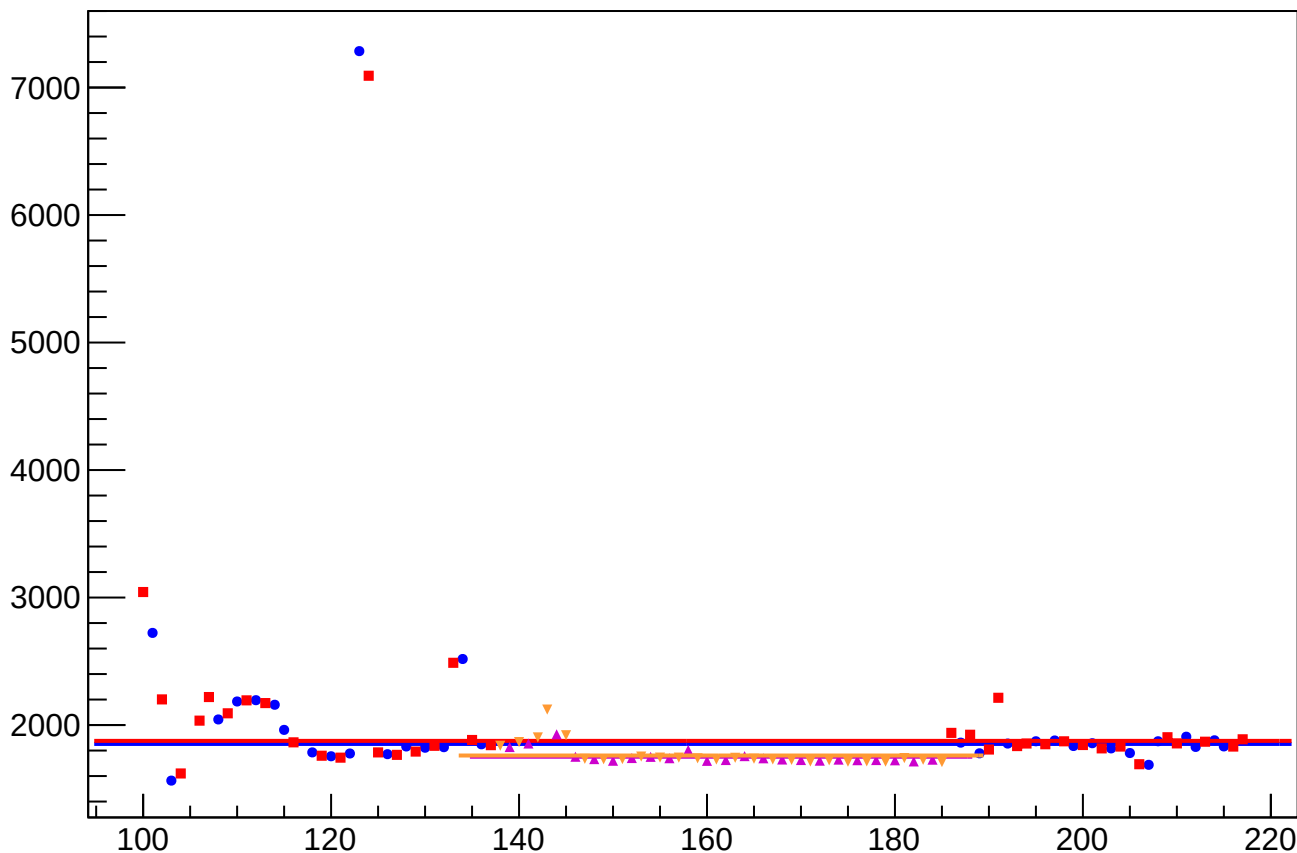
Right: -294.554 $\pm$ 313.252 χ^2 /NDF: 68.9/67

In: -761.993 $\pm$ 306.306 χ^2 /NDF:40.6/54

Out: -22.798 $\pm$ 299.817 χ^2 /NDF:76.0/60

All: -384.483 $\pm$ 214.260 χ^2 /NDF: 119.6/115

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.833+/-0.317 χ^2/NDF : 307080.5/31

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1875.916+/-0.310 χ^2/NDF : 395733.7/35

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

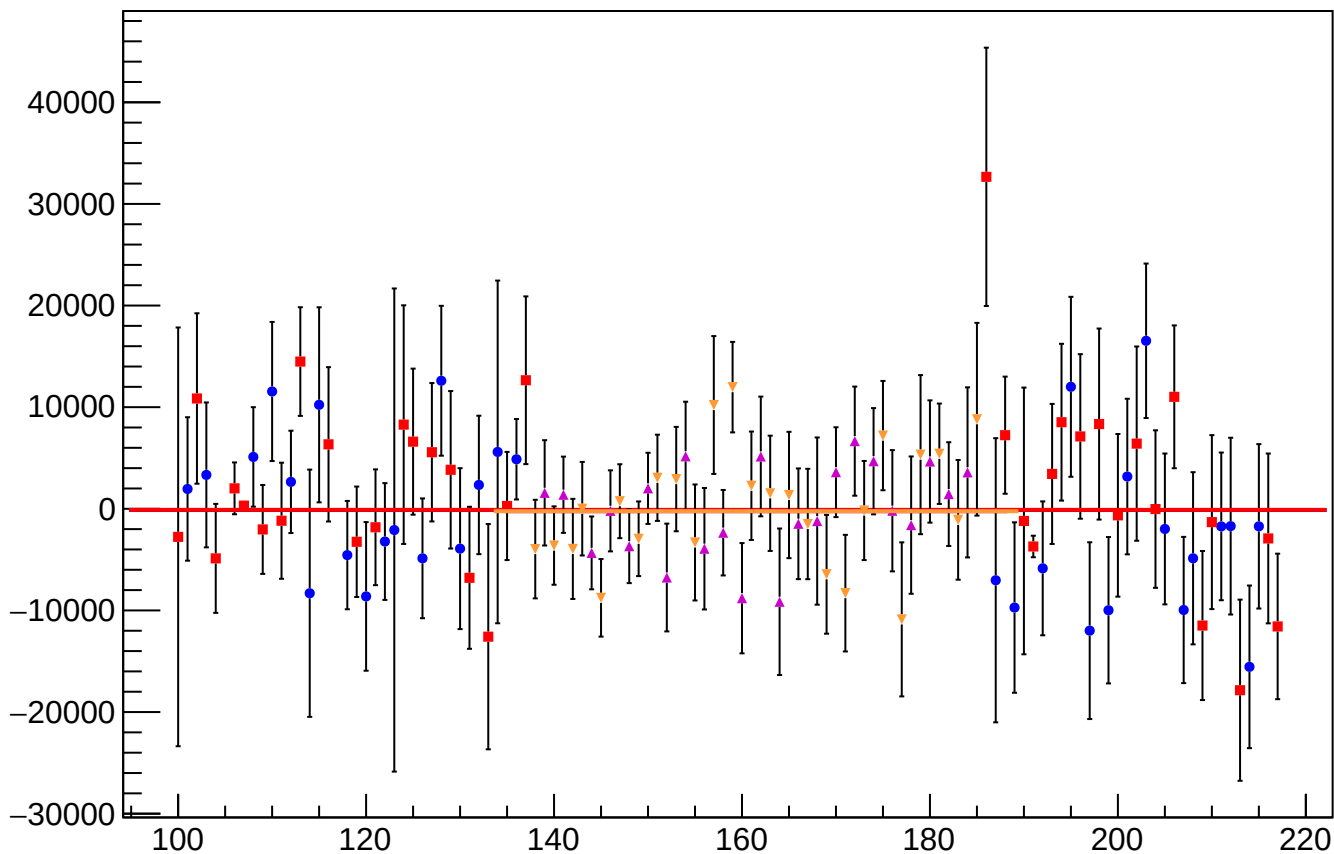
Right: 1864.138+/-0.221 χ^2/NDF : 705769.8/67

In: 1798.400+/-0.217 χ^2/NDF : 389172.3/54

Out: 1814.837+/-0.212 χ^2/NDF : 546279.3/60

All: 1806.797+/-0.151 χ^2/NDF : 938393.6/115

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -120.354+/-1255.542 χ^2/NDF : 33.3/31

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: -105.069+/-408.393 χ^2/NDF : 54.7/35

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

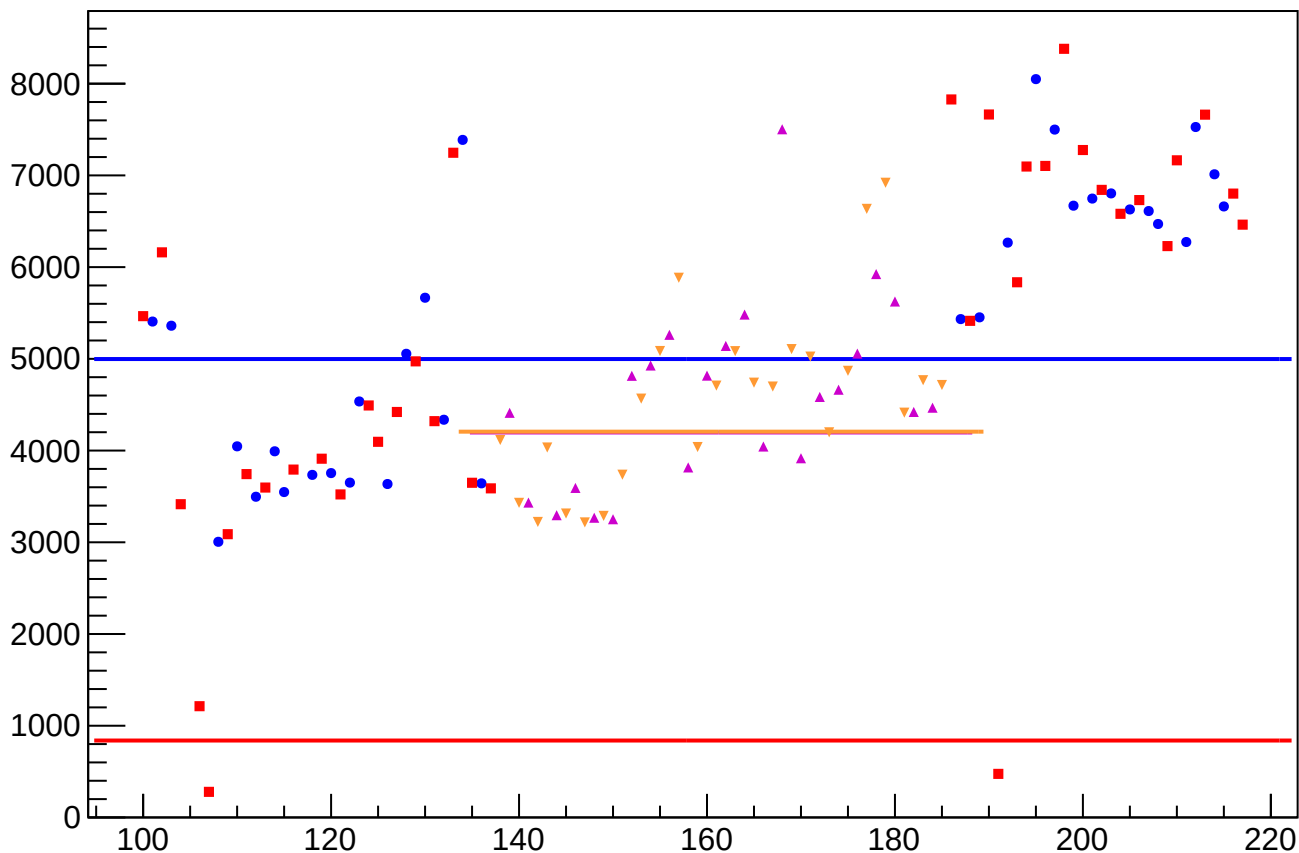
Right: -106.531+/-388.365 χ^2/NDF : 88.0/67

In: -191.468+/-795.808 χ^2/NDF : 48.6/54

Out: -123.593+/-378.356 χ^2/NDF : 83.6/60

All: -136.107+/-341.702 χ^2/NDF : 132.2/115

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4997.838+/-0.888 χ^2/NDF : 2824779.7/31

Left Out: 4206.076+/-0.711 χ^2/NDF : 1442269.3/24

Right Out: 838.727+/-0.289 χ^2/NDF : 28426589.6/35

Left In: 4197.267+/-0.728 χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

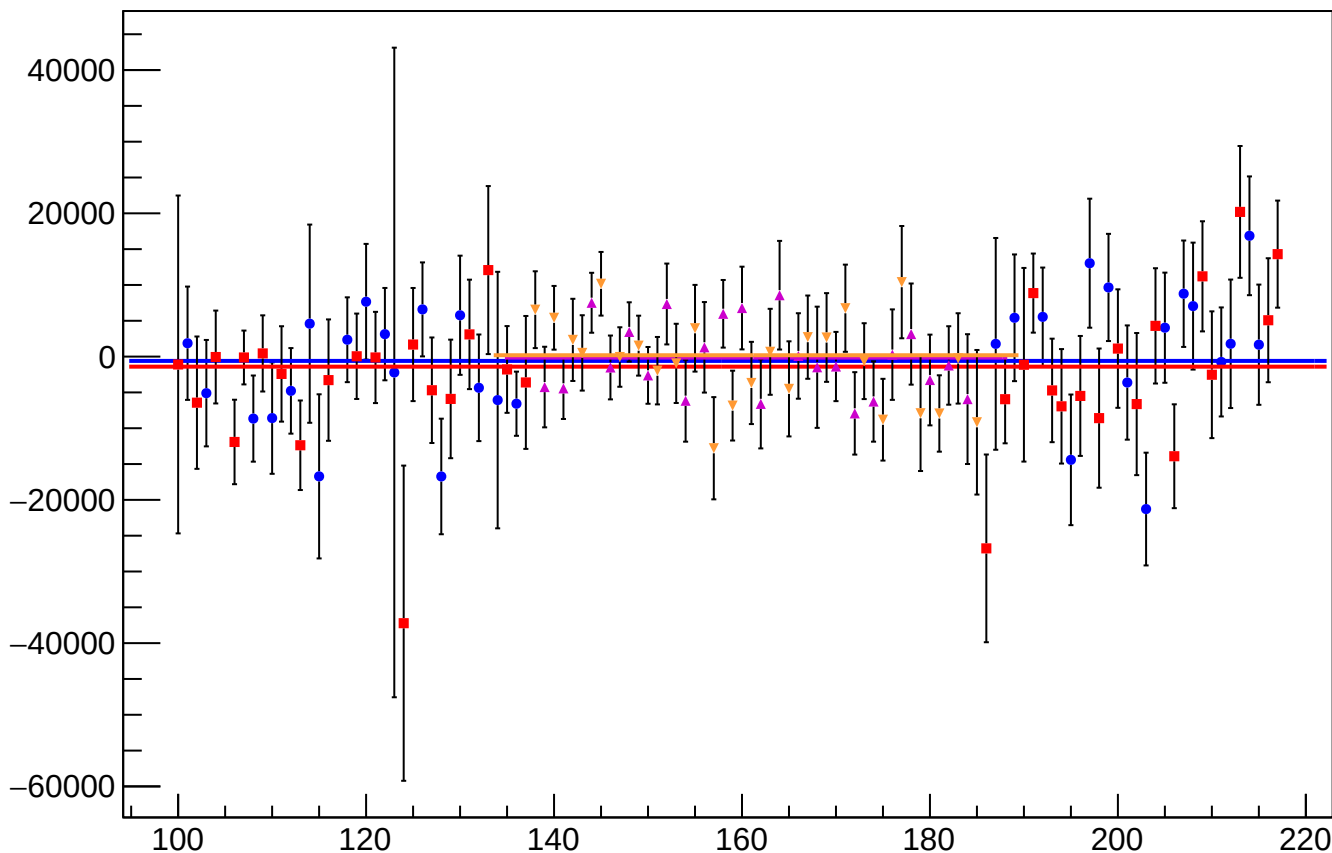
Right: 1236.667+/-0.275 χ^2/NDF : 51098183.4/67

In: 4518.895+/-0.563 χ^2/NDF : 4782256.9/54

Out: 1315.853+/-0.268 χ^2/NDF : 49134934.9/60

All: 1906.383+/-0.242 χ^2/NDF : 80343383.1/131

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -601.439 ± 1373.060 $\chi^2/\text{NDF}: 37.6/31$

Left Out: 189.721 ± 1106.851 $\chi^2/\text{NDF}: 25.0/24$

Right Out: -1404.784 ± 1227.394 $\chi^2/\text{NDF}: 38.3/35$

Left In: -137.477 ± 1129.656 $\chi^2/\text{NDF}: 18.6/22$

Left: 29.458 ± 790.601 $\chi^2/\text{NDF}: 43.6/47$

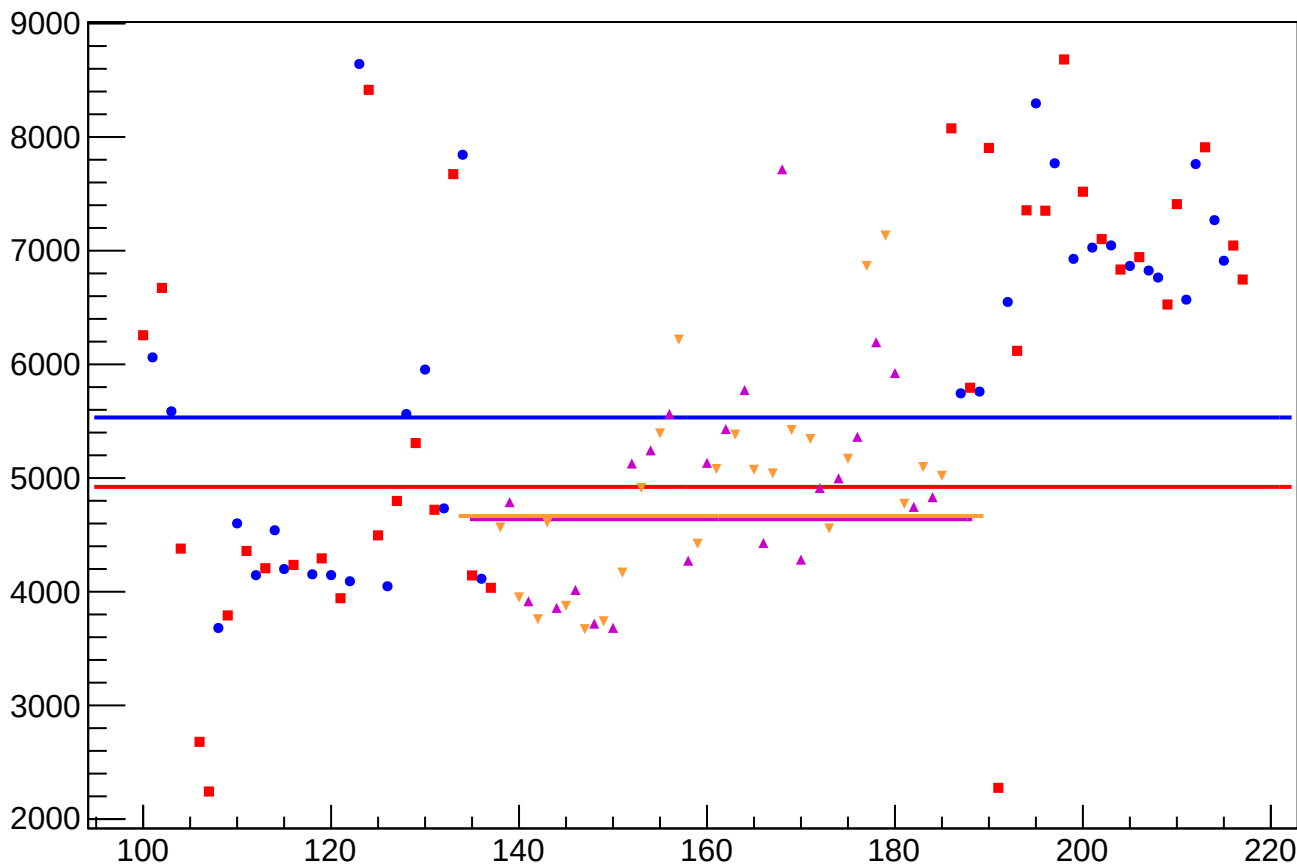
Right: -1047.970 ± 915.080 $\chi^2/\text{NDF}: 76.1/67$

In: -324.758 ± 872.358 $\chi^2/\text{NDF}: 56.2/54$

Out: -525.409 ± 821.984 $\chi^2/\text{NDF}: 64.2/60$

All: -431.044 ± 598.247 $\chi^2/\text{NDF}: 120.5/115$

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5532.961 $\pm$ 0.971 χ^2/NDF : 2041728.4/31

Left Out: 4665.620 $\pm$ 0.783 χ^2/NDF : 1017235.0/24

Right Out: 4922.172 $\pm$ 0.865 χ^2/NDF : 4567874.6/35

Left In: 4637.777 $\pm$ 0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983 $\pm$ 0.559 χ^2/NDF : 2083072.1/47

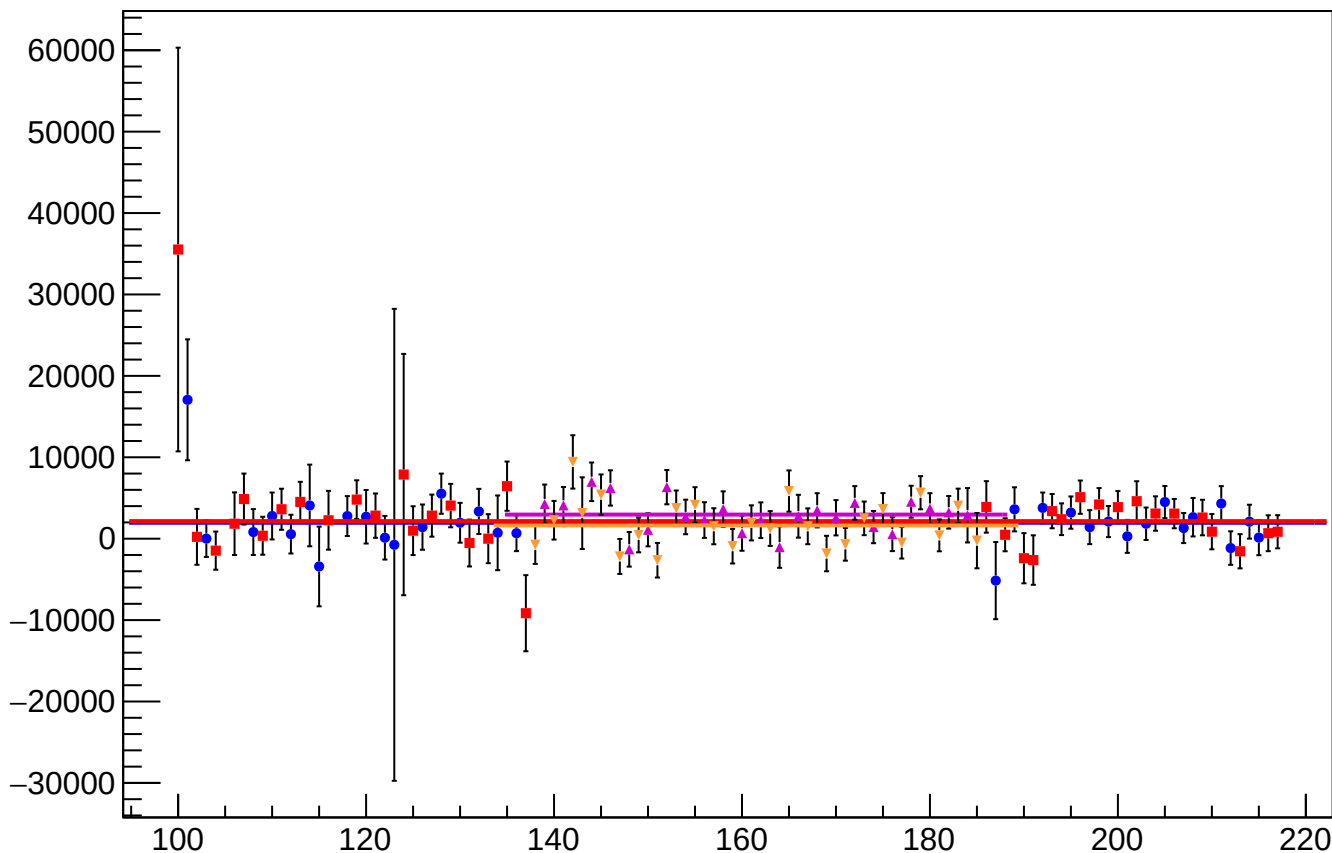
Right: 5192.283 $\pm$ 0.646 χ^2/NDF : 6830345.5/67

In: 4999.123 $\pm$ 0.617 χ^2/NDF : 3613904.2/54

Out: 4781.178 $\pm$ 0.580 χ^2/NDF : 5633507.7/60

All: 4883.486 $\pm$ 0.423 χ^2/NDF : 9313646.3/11

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1957.379+/-433.960 χ^2/NDF : 21.1/31

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2158.414+/-418.541 χ^2/NDF : 34.2/35

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

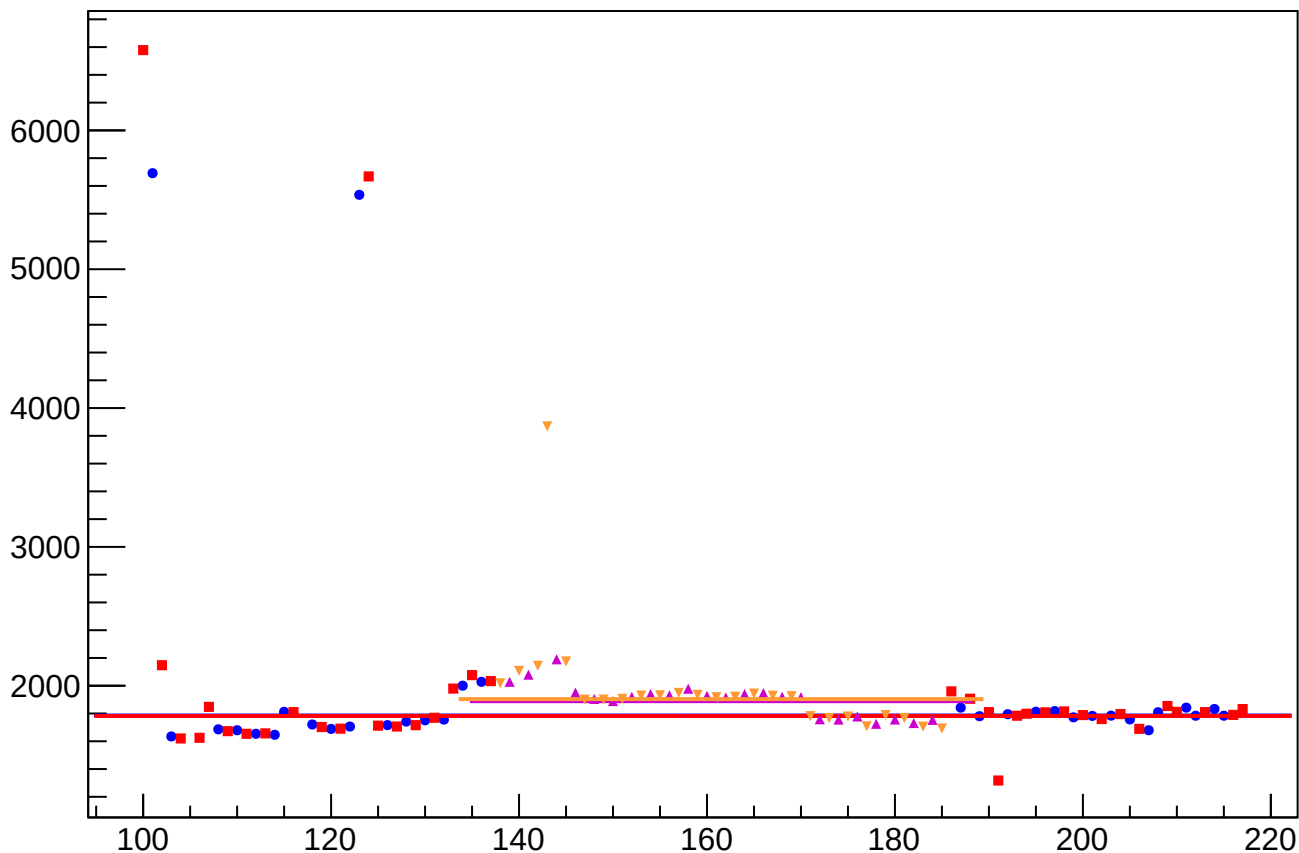
Right: 2061.532+/-301.257 χ^2/NDF : 55.4/67

In: 2435.758+/-313.598 χ^2/NDF : 44.1/54

Out: 1911.616+/-305.539 χ^2/NDF : 70.4/60

All: 2166.866+/-218.843 χ^2/NDF : 115.9/115

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.269+/-0.307 χ^2/NDF : 655585.1/31

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1782.540+/-0.295 χ^2/NDF : 378326.8/35

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

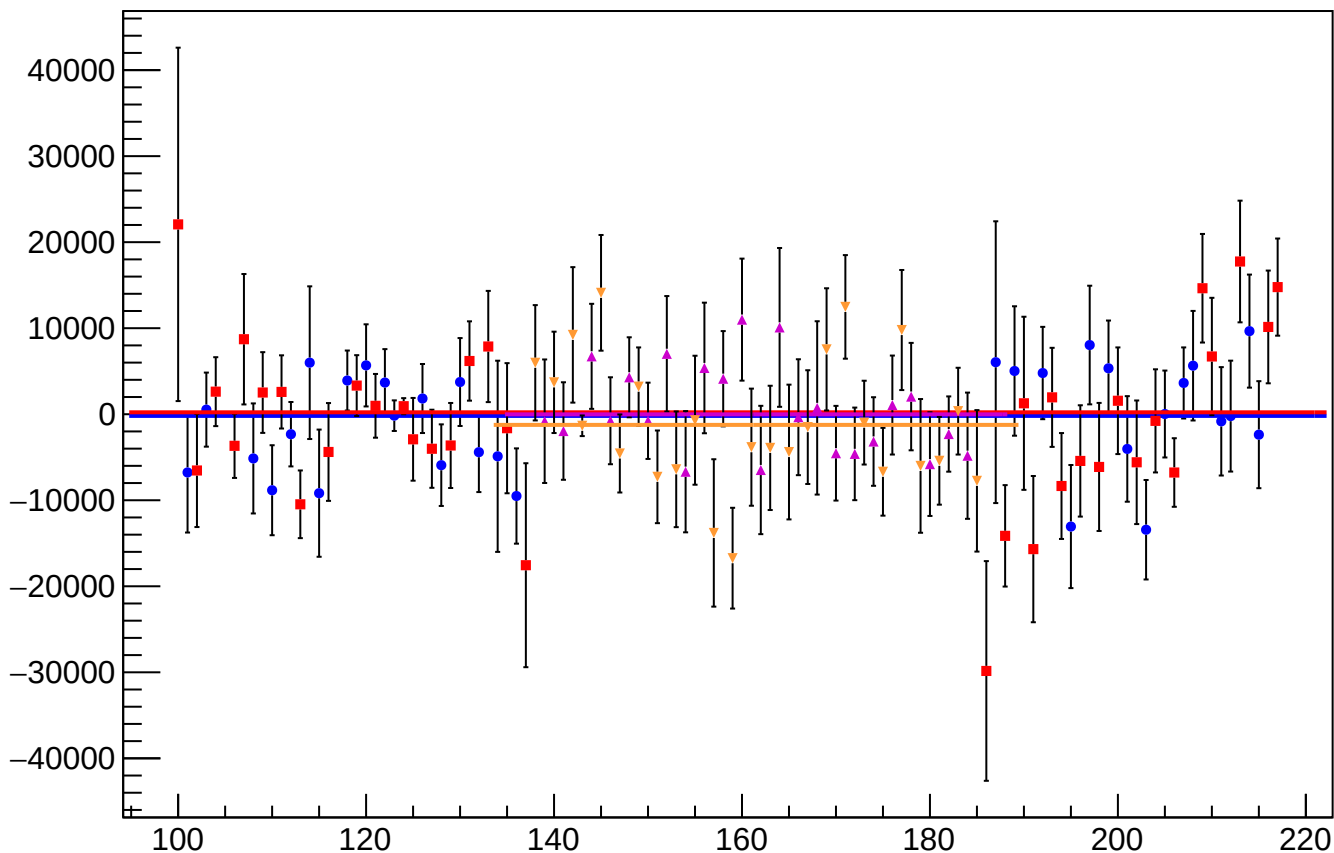
Right: 1783.852+/-0.213 χ^2/NDF : 1033953.0/67

In: 1834.795+/-0.222 χ^2/NDF : 836524.1/54

Out: 1838.938+/-0.216 χ^2/NDF : 998268.6/60

All: 1836.923+/-0.155 χ^2/NDF : 1834972.1/111

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -194.351 ± 849.800 $\chi^2/\text{NDF}: 33.4/31$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: 222.969 ± 657.606 $\chi^2/\text{NDF}: 65.7/35$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

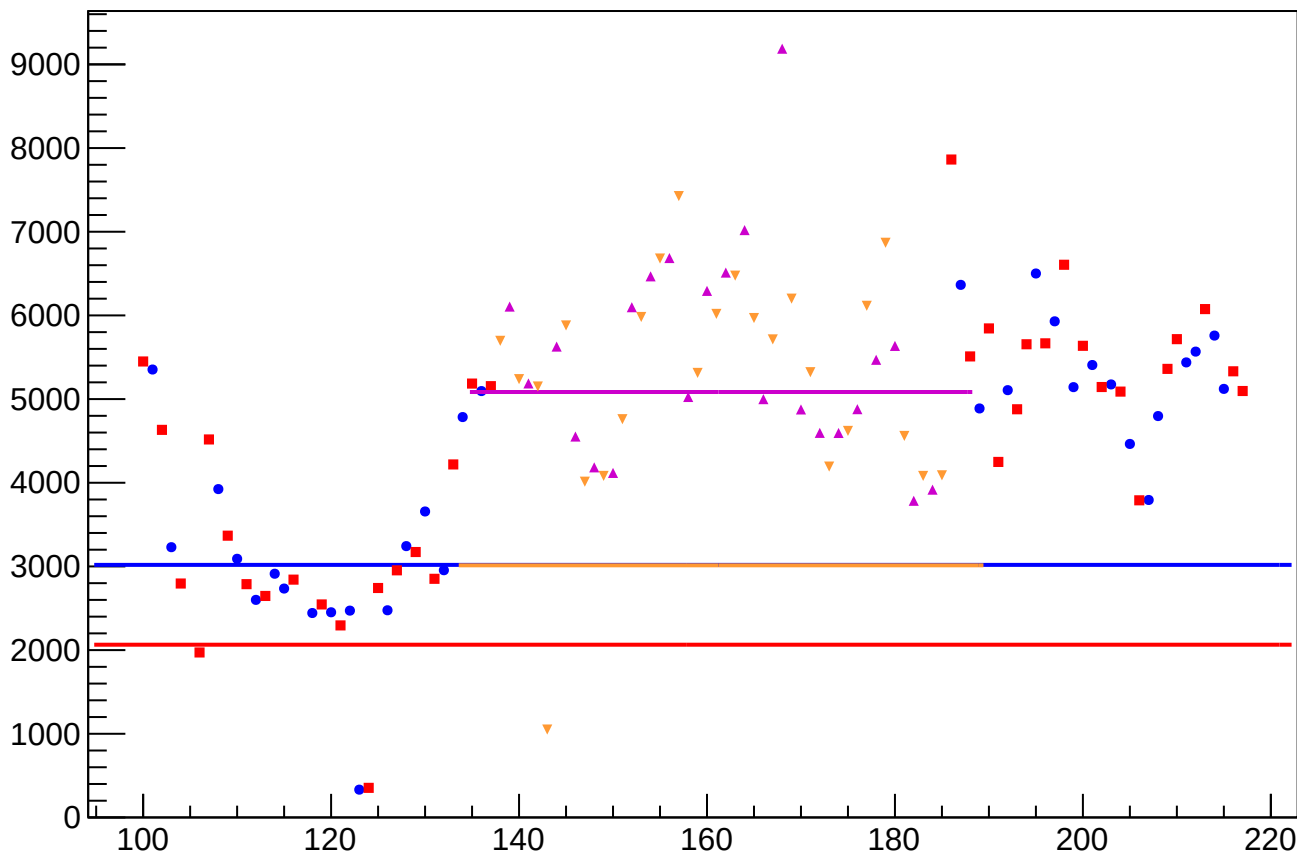
Right: 66.666 ± 520.075 $\chi^2/\text{NDF}: 99.3/67$

In: -137.518 ± 701.580 $\chi^2/\text{NDF}: 46.7/54$

Out: -312.656 ± 523.546 $\chi^2/\text{NDF}: 101.4/60$

All: -250.011 ± 419.593 $\chi^2/\text{NDF}: 148.1/115$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3018.542 $\pm$ 0.601

χ^2 /NDF: 9176248.8/31

Left: 3689.075 $\pm$ 0.502

χ^2 /NDF: 17314385.8/47

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

Right: 2421.837 $\pm$ 0.368

χ^2 /NDF: 28178316.6/67

Right Out: 2064.517 $\pm$ 0.465

χ^2 /NDF: 17425489.1/35

In: 3676.415 $\pm$ 0.496

χ^2 /NDF: 14244199.2/54

Out: 2411.915 $\pm$ 0.370

χ^2 /NDF: 31220569.3/60

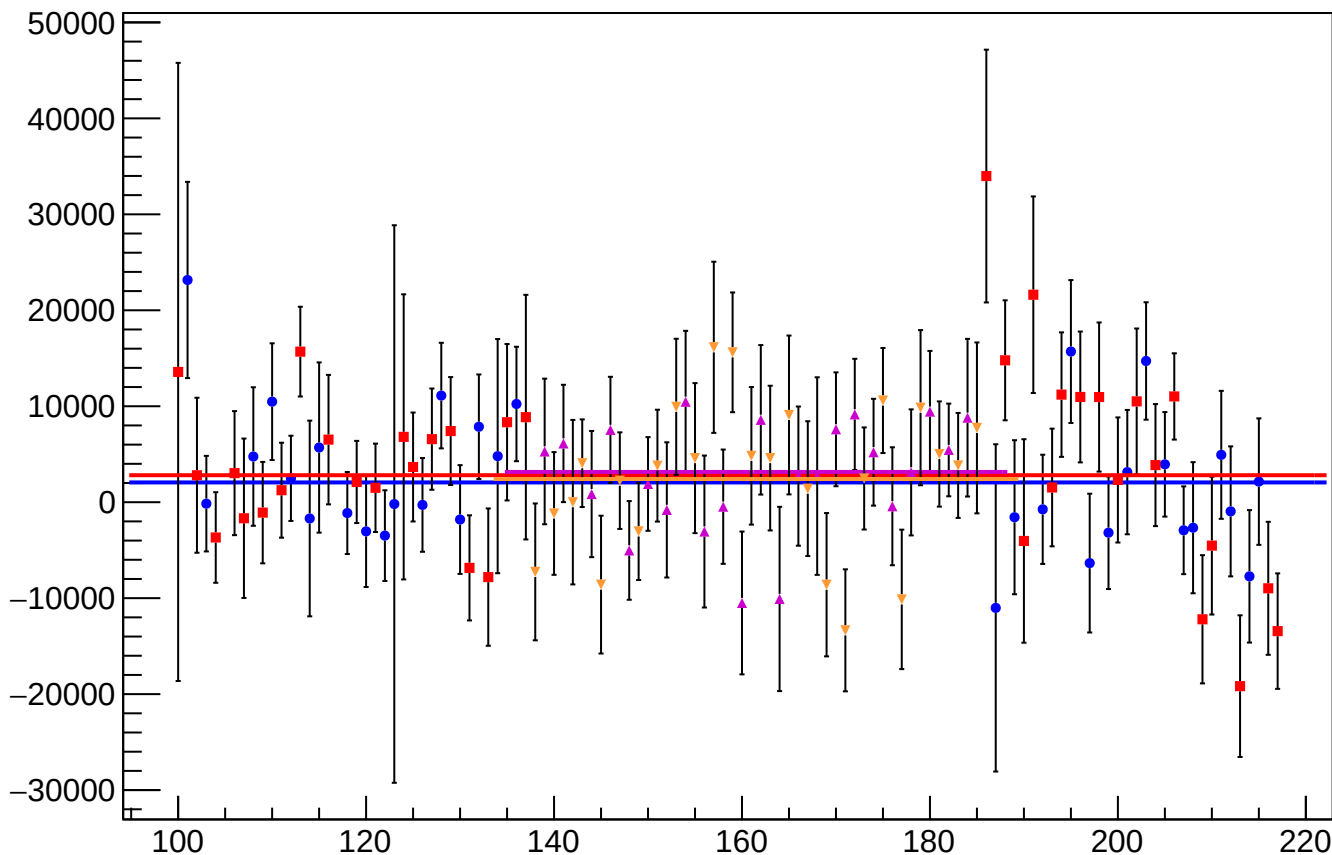
Left In: 5084.645 $\pm$ 0.879

χ^2 /NDF: 1303587.7/22

All: 2864.209 $\pm$ 0.297

χ^2 /NDF: 49637887.5/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2059.956+/-1096.323 χ^2/NDF : 31.0/31

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 2813.532+/-1063.141 χ^2/NDF : 65.0/35

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

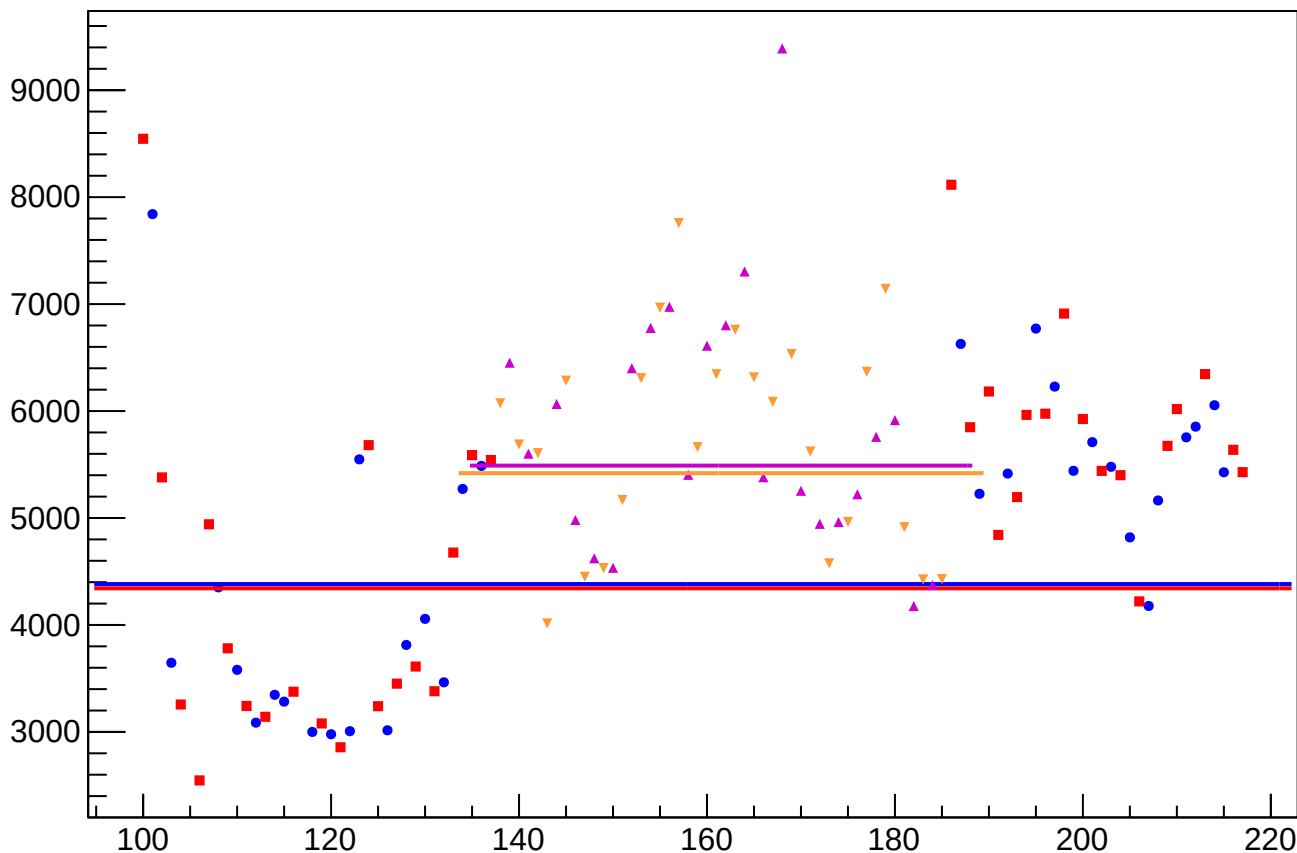
Right: 2448.320+/-763.216 χ^2/NDF : 96.3/67

In: 2499.445+/-847.853 χ^2/NDF : 46.9/54

Out: 2652.705+/-819.518 χ^2/NDF : 95.0/60

All: 2578.679+/-589.249 χ^2/NDF : 141.9/115

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4382.632 $\pm$ 0.775 χ^2 /NDF: 2410743.6/31

Left Out: 5419.305 $\pm$ 0.910 χ^2 /NDF:1109972.1/24

Right Out: 4342.593 $\pm$ 0.745 χ^2 /NDF: 2953232.8/35

Left In: 5489.885 $\pm$ 0.946 χ^2 /NDF:1064353.3/22

Left: 5453.227 $\pm$ 0.656 χ^2 /NDF: 2177218.7/47

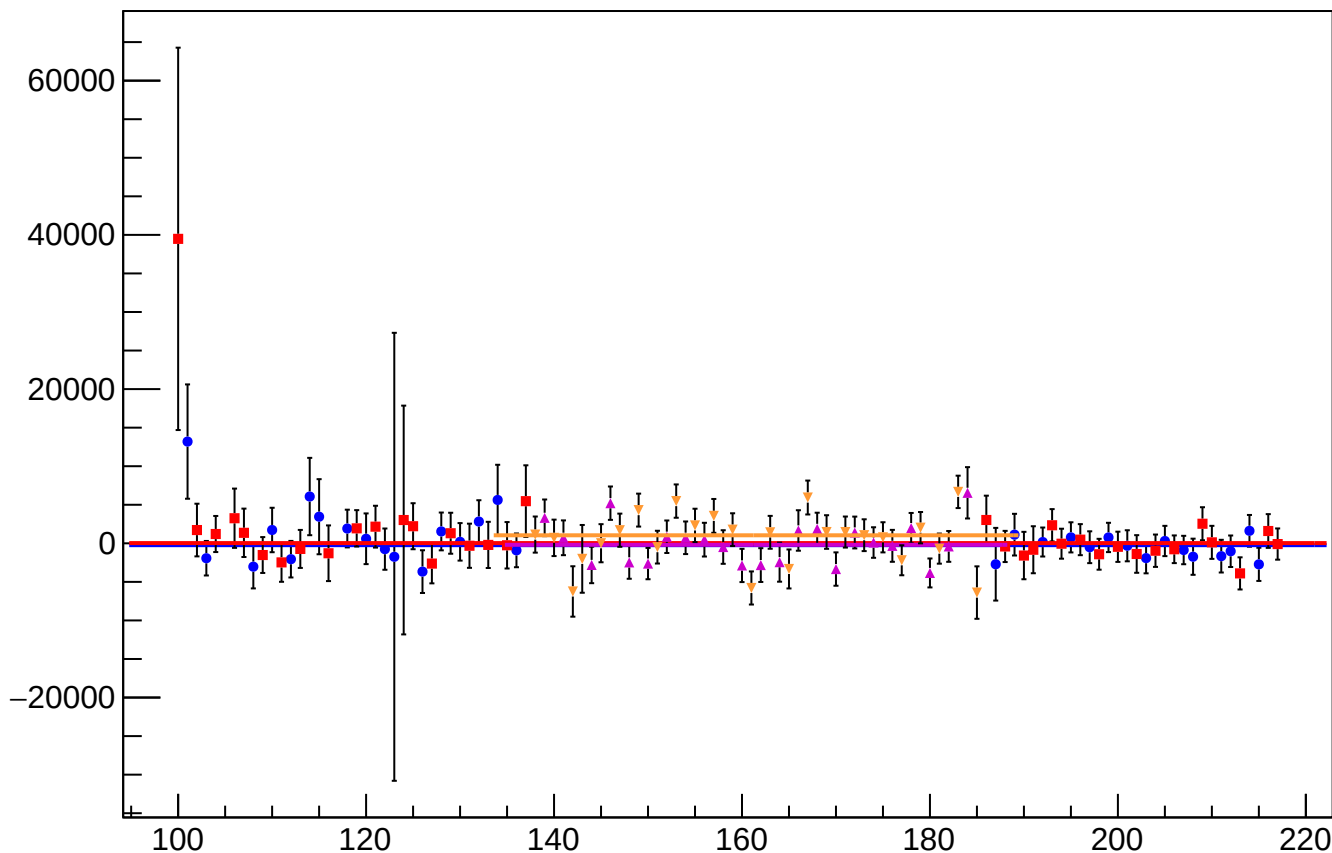
Right: 4361.830 $\pm$ 0.537 χ^2 /NDF: 5365362.4/67

In: 4827.650 $\pm$ 0.600 χ^2 /NDF:4295034.3/54

Out: 4775.182 $\pm$ 0.577 χ^2 /NDF:4901296.3/60

All: 4800.394 $\pm$ 0.416 χ^2 /NDF: 9200309.5/11

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -239.122 ± 431.575 χ^2/NDF : 19.2/31

Left Out: 1041.262 ± 446.249 χ^2/NDF : 48.6/24

Right Out: 30.517 ± 416.275 χ^2/NDF : 19.5/35

Left In: -191.966 ± 453.055 χ^2/NDF : 30.0/22

Left: 433.980 ± 317.925 χ^2/NDF : 82.3/47

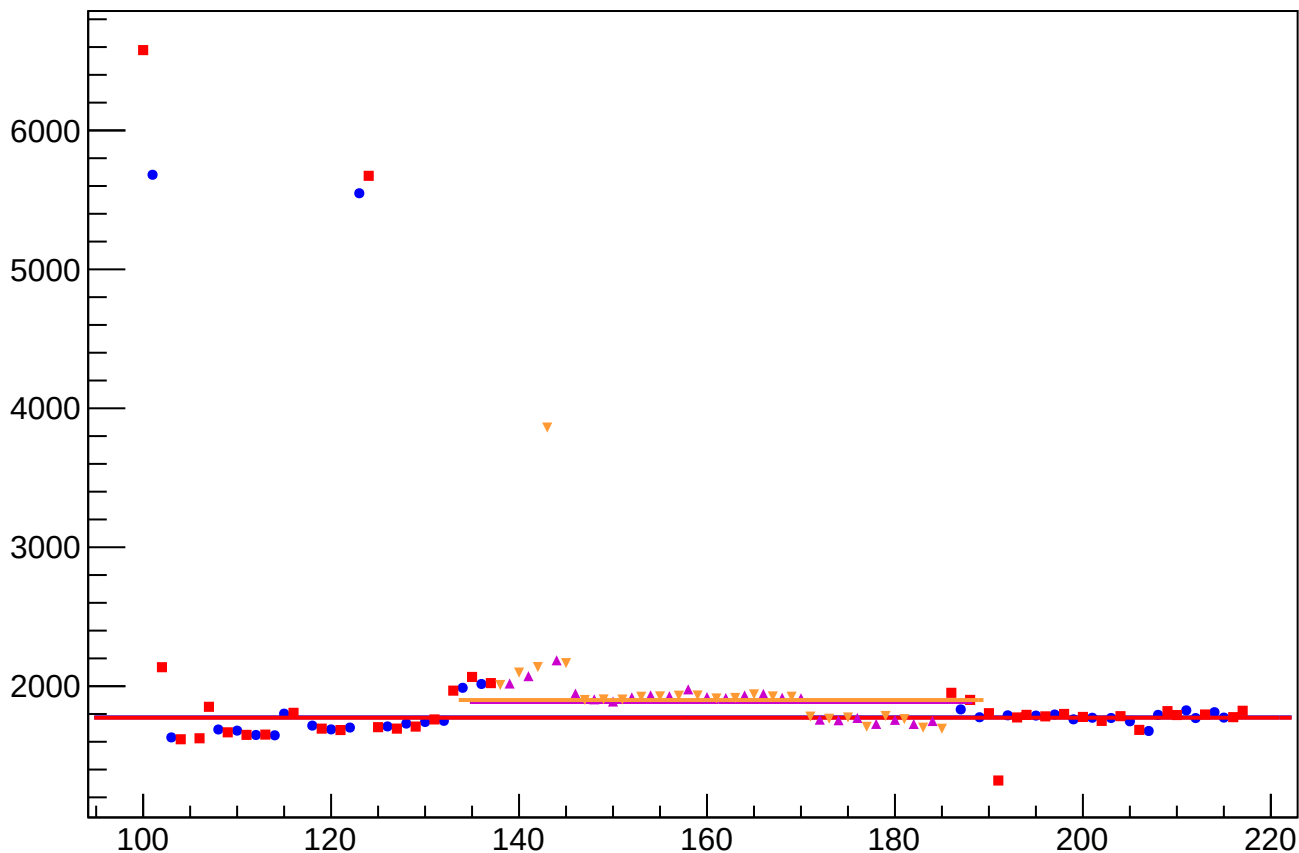
Right: -99.438 ± 299.614 χ^2/NDF : 38.9/67

In: -216.689 ± 312.487 χ^2/NDF : 49.2/54

Out: 500.807 ± 304.396 χ^2/NDF : 70.8/60

All: 151.468 ± 218.045 χ^2/NDF : 122.7/115

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1775.601+/-0.305 χ^2/NDF : 651820.3/31

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1773.147+/-0.294 χ^2/NDF : 372864.2/35

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

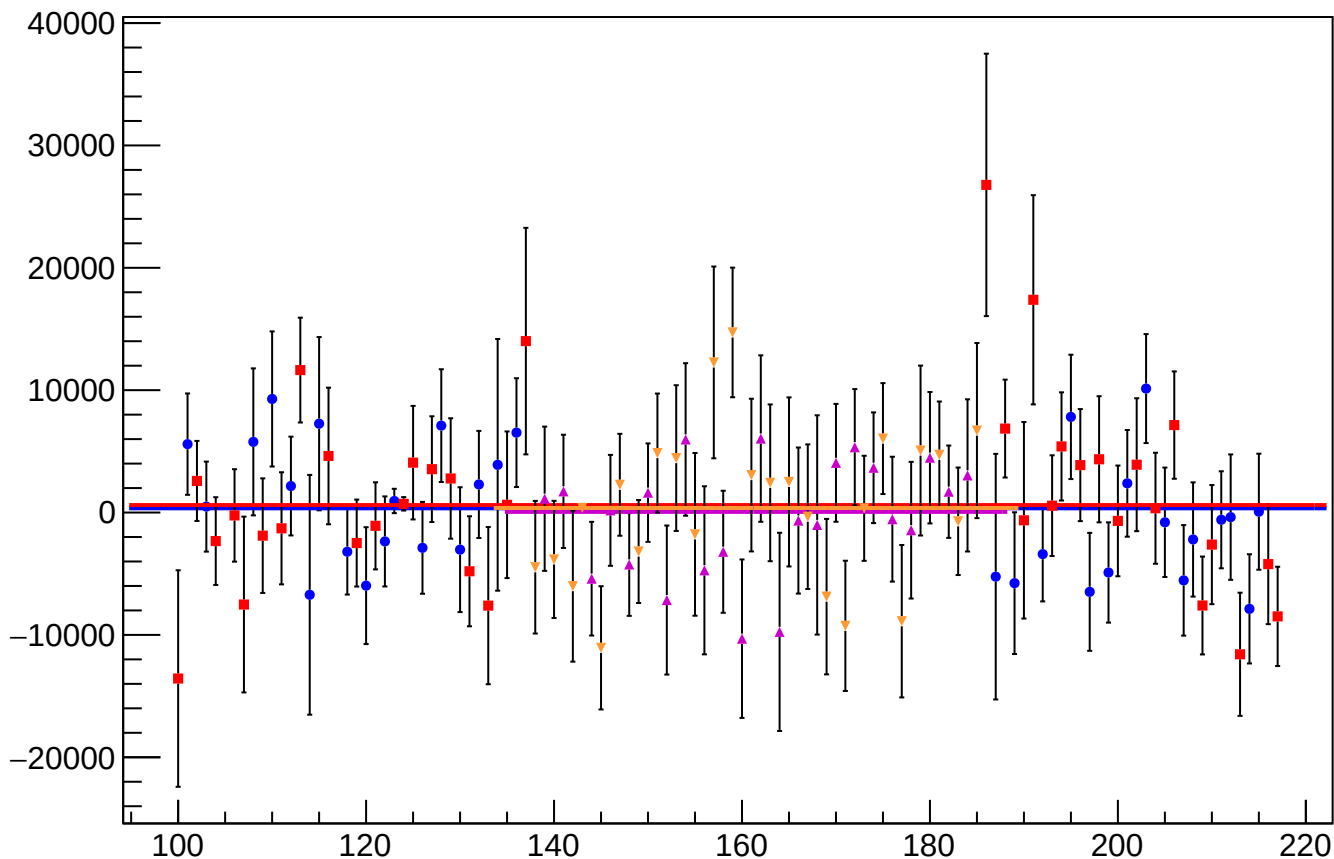
Right: 1774.326+/-0.212 χ^2/NDF : 1024718.1/67

In: 1828.301+/-0.221 χ^2/NDF : 838028.4/54

Out: 1832.146+/-0.215 χ^2/NDF : 997781.1/60

All: 1830.276+/-0.154 χ^2/NDF : 1835965.1/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 346.323+/-638.283 χ^2/NDF : 34.7/31

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 610.175+/-450.826 χ^2/NDF : 53.6/35

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

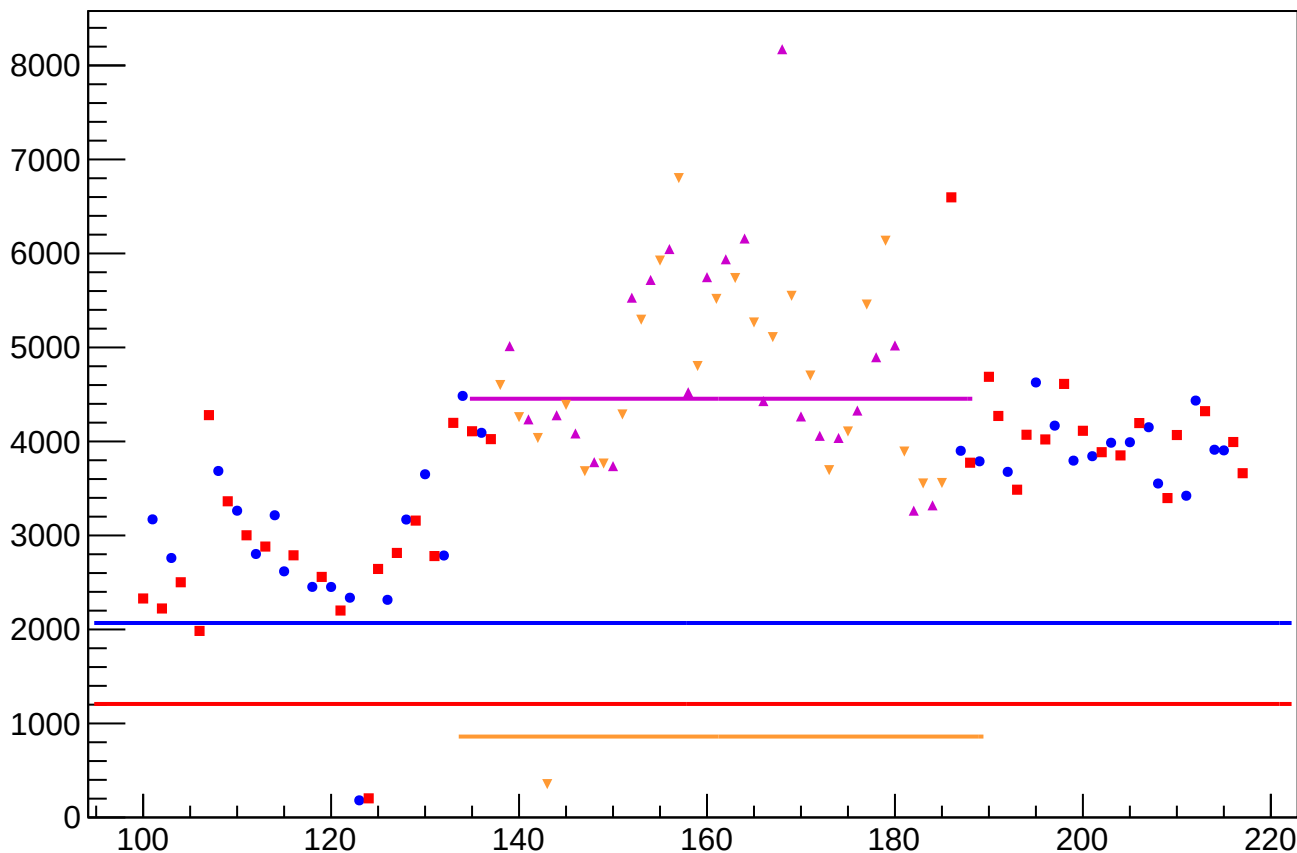
Right: 522.356+/-368.236 χ^2/NDF : 88.5/67

In: 271.438+/-550.782 χ^2/NDF :49.3/54

Out: 472.303+/-291.476 χ^2/NDF :84.6/60

All: 428.357+/-257.625 χ^2/NDF : 134.1/115

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2068.813 $\pm$ 0.451 χ^2/NDF : 13515903.2/31

Left Out: 860.545 $\pm$ 0.270 χ^2/NDF : 26340106.5/24

Right Out: 1207.361 $\pm$ 0.319 χ^2/NDF : 22800764.3/35

Left In: 4454.402 $\pm$ 0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2/NDF : 47056303.3/47

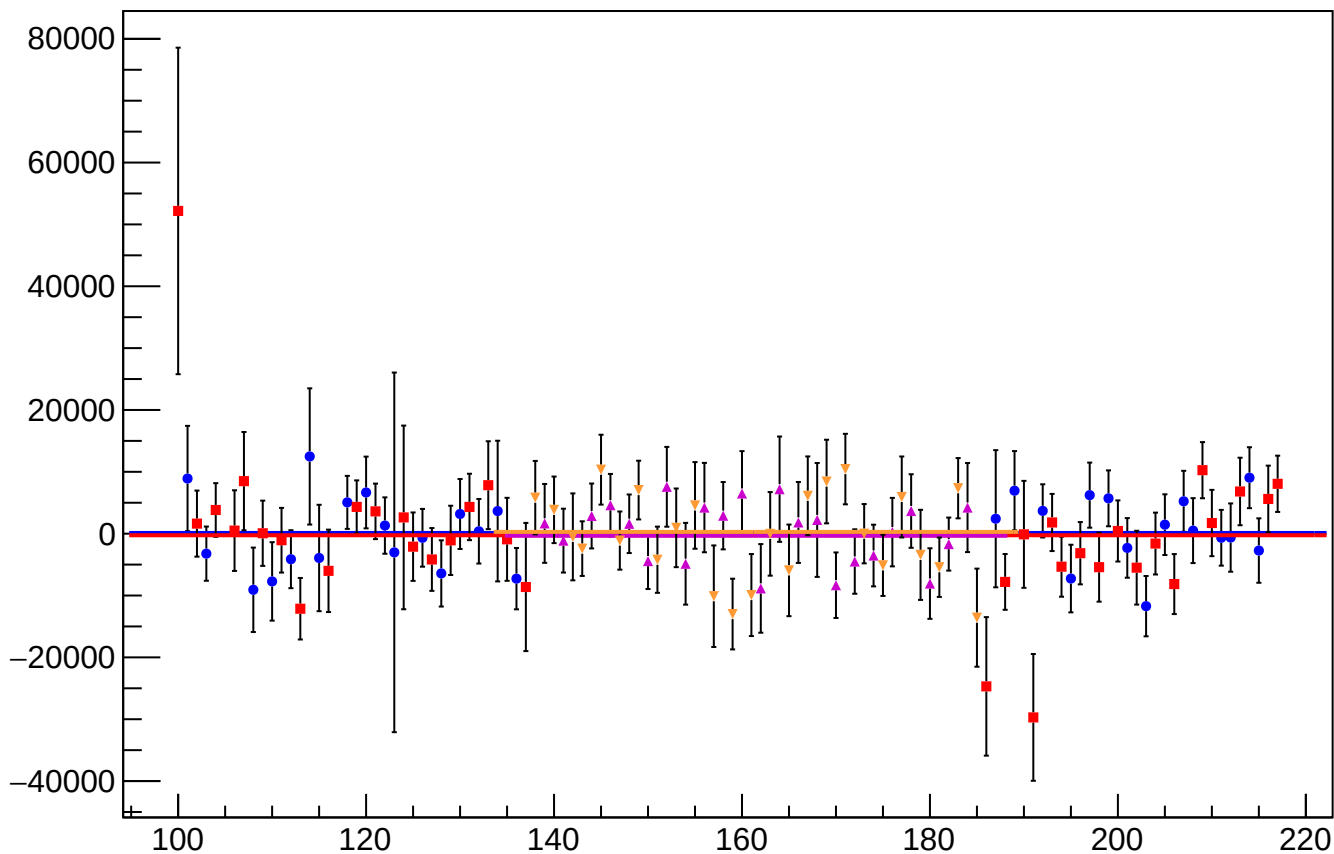
Right: 1494.080 $\pm$ 0.260 χ^2/NDF : 38747193.4/67

In: 2678.057 $\pm$ 0.389 χ^2/NDF : 22000583.9/54

Out: 1005.518 $\pm$ 0.206 χ^2/NDF : 49829721.4/60

All: 1371.443 $\pm$ 0.182 χ^2/NDF : 86238002.6/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 114.938 $\pm$ 962.562 χ^2 /NDF: 31.6/31

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -258.189 $\pm$ 930.639 χ^2 /NDF: 51.5/35

Left In: -332.488 $\pm$ 1196.011 χ^2 /NDF:14.7/22

Left: -11.273 $\pm$ 830.984 χ^2 /NDF: 47.2/47

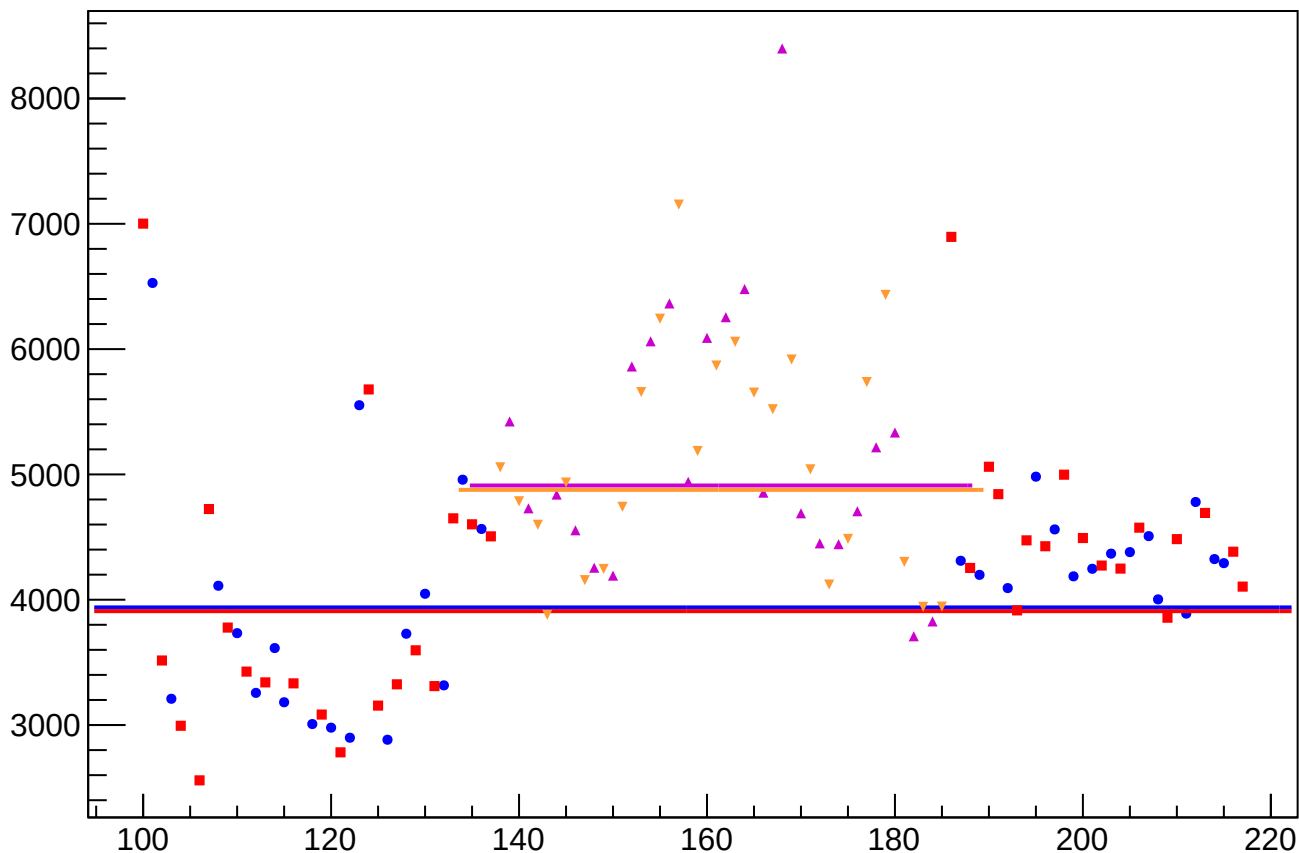
Right: -77.915 $\pm$ 669.062 χ^2 /NDF: 83.2/67

In: -60.945 $\pm$ 749.872 χ^2 /NDF:46.4/54

Out: -43.073 $\pm$ 724.774 χ^2 /NDF:84.1/60

All: -51.705 $\pm$ 521.140 χ^2 /NDF: 130.4/115

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3938.561 $\pm$ 0.681 χ^2 /NDF: 994959.2/31

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3908.745 $\pm$ 0.654 χ^2 /NDF: 1217365.1/35

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

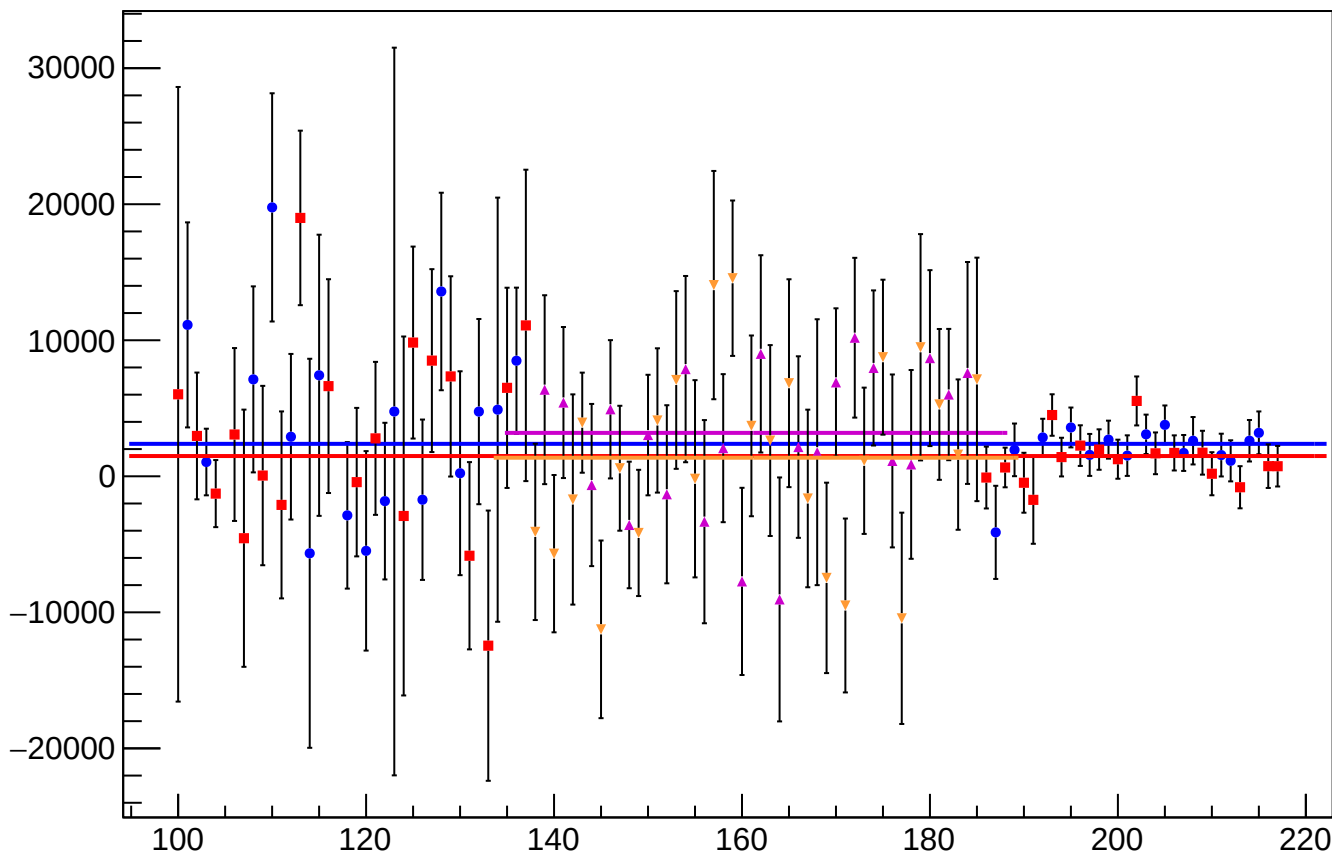
Right: 3923.055 $\pm$ 0.472 χ^2 /NDF: 2213322.3/67

In: 4321.041 $\pm$ 0.530 χ^2 /NDF: 2841445.7/54

Out: 4286.601 $\pm$ 0.510 χ^2 /NDF: 3045293.5/60

All: 4303.168 $\pm$ 0.368 χ^2 /NDF: 5888928.5/111

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2385.078+/-384.815 χ^2/NDF : 21.8/31

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1488.887+/-373.394 χ^2/NDF : 33.1/35

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

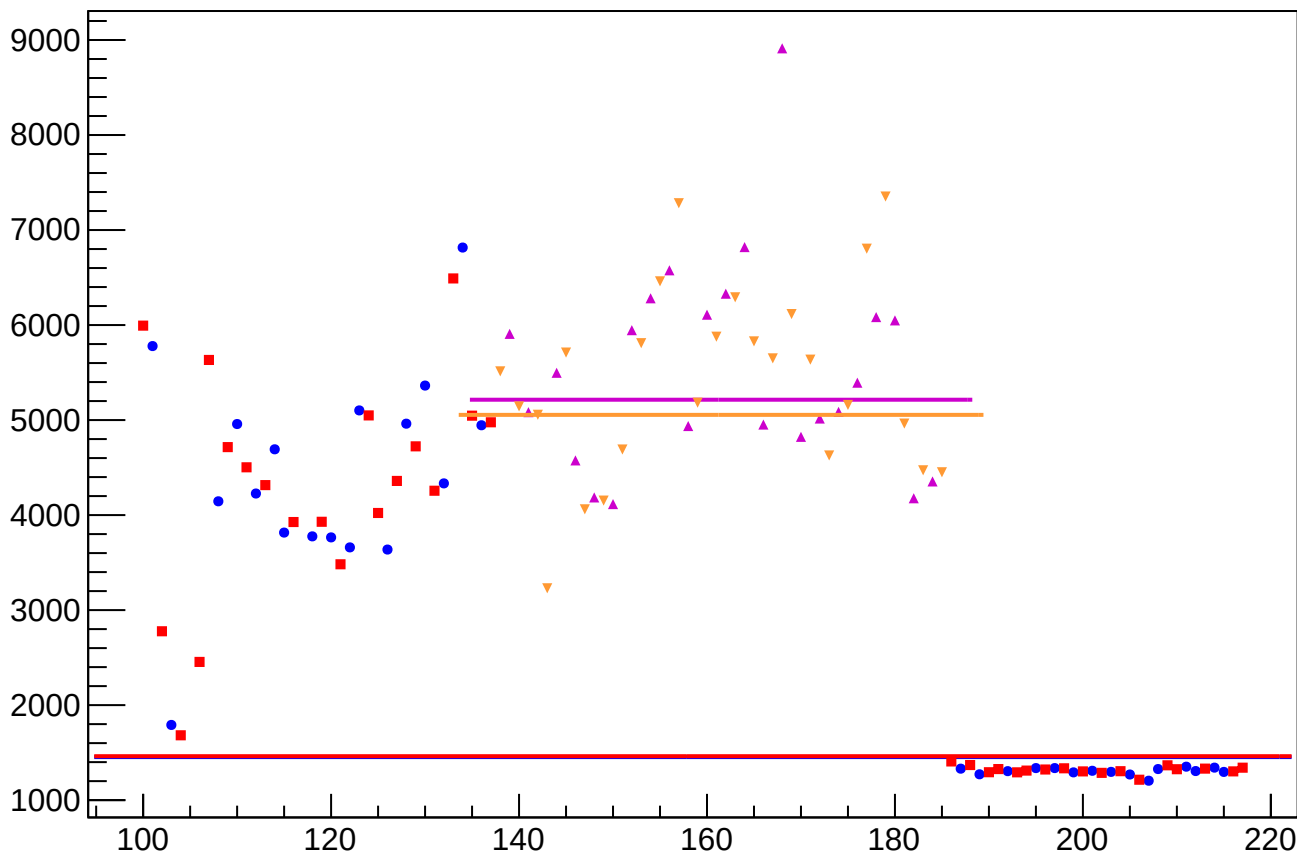
Right: 1923.486+/-267.976 χ^2/NDF : 57.8/67

In: 2452.860+/-368.281 χ^2/NDF : 36.2/54

Out: 1478.062+/-356.696 χ^2/NDF : 61.1/60

All: 1949.888+/-256.220 χ^2/NDF : 100.9/115

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1453.093 $\pm$ 0.272 χ^2/NDF : 5913869.4/31

Left Out: 5054.711 $\pm$ 0.853 χ^2/NDF : 1437224.7/24

Right Out: 1462.442 $\pm$ 0.264 χ^2/NDF : 5842355.6/35

Left In: 5214.120 $\pm$ 0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2/NDF : 2506291.2/47

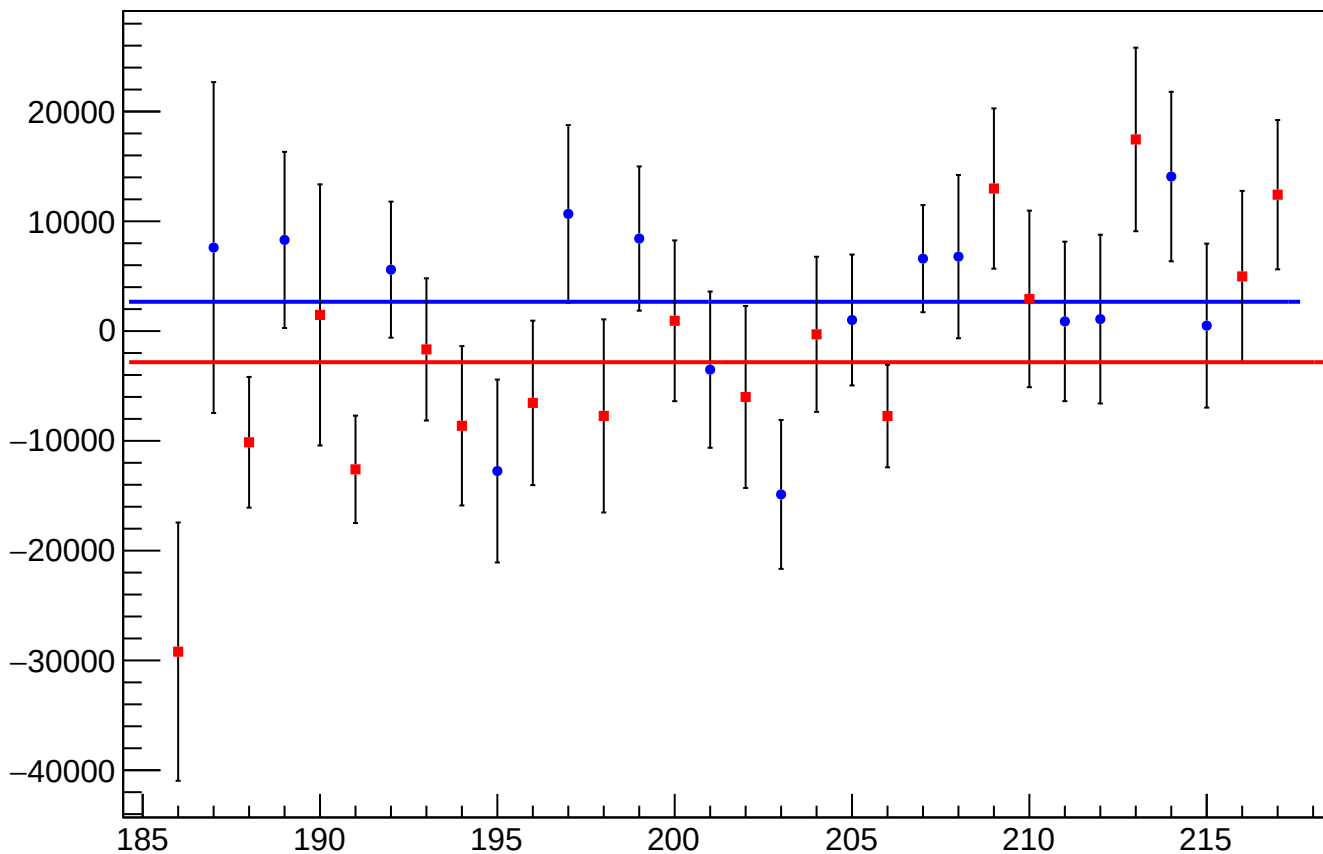
Right: 1457.911 $\pm$ 0.189 χ^2/NDF : 11756833.3/67

In: 1769.350 $\pm$ 0.260 χ^2/NDF : 23031147.6/54

Out: 1776.160 $\pm$ 0.252 χ^2/NDF : 23467589.8/60

All: 1772.866 $\pm$ 0.181 χ^2/NDF : 46499090.4/1

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2669.113+/-1828.437 χ^2/NDF : 16.8/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -2833.678+/-1706.343 χ^2/NDF : 30.6/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

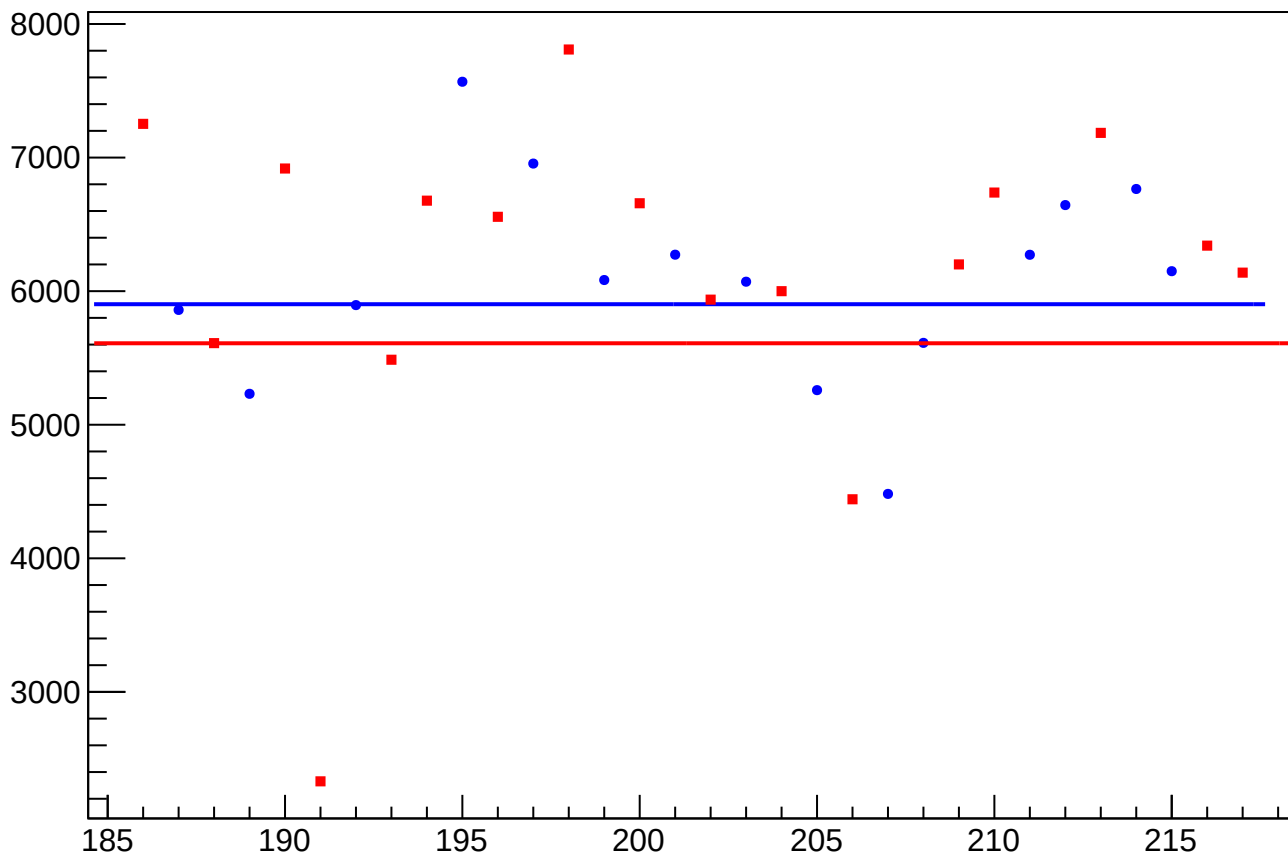
Right: -272.126+/-1247.499 χ^2/NDF : 52.3/31

In: 2669.113+/-1828.437 χ^2/NDF : 16.8/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -272.126+/-1247.499 χ^2/NDF : 52.3/31

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5902.293±/-1.293 χ^2/NDF : 382658.3/14

Left Out: 0.000±/-0.000 χ^2/NDF : 0.0/0

Right Out: 5609.860±/-1.207 χ^2/NDF : 1490488.7/16

Left In: 0.000±/-0.000 χ^2/NDF : 0.0/0

Left: 0.000±/-0.000 χ^2/NDF : 0.0/0

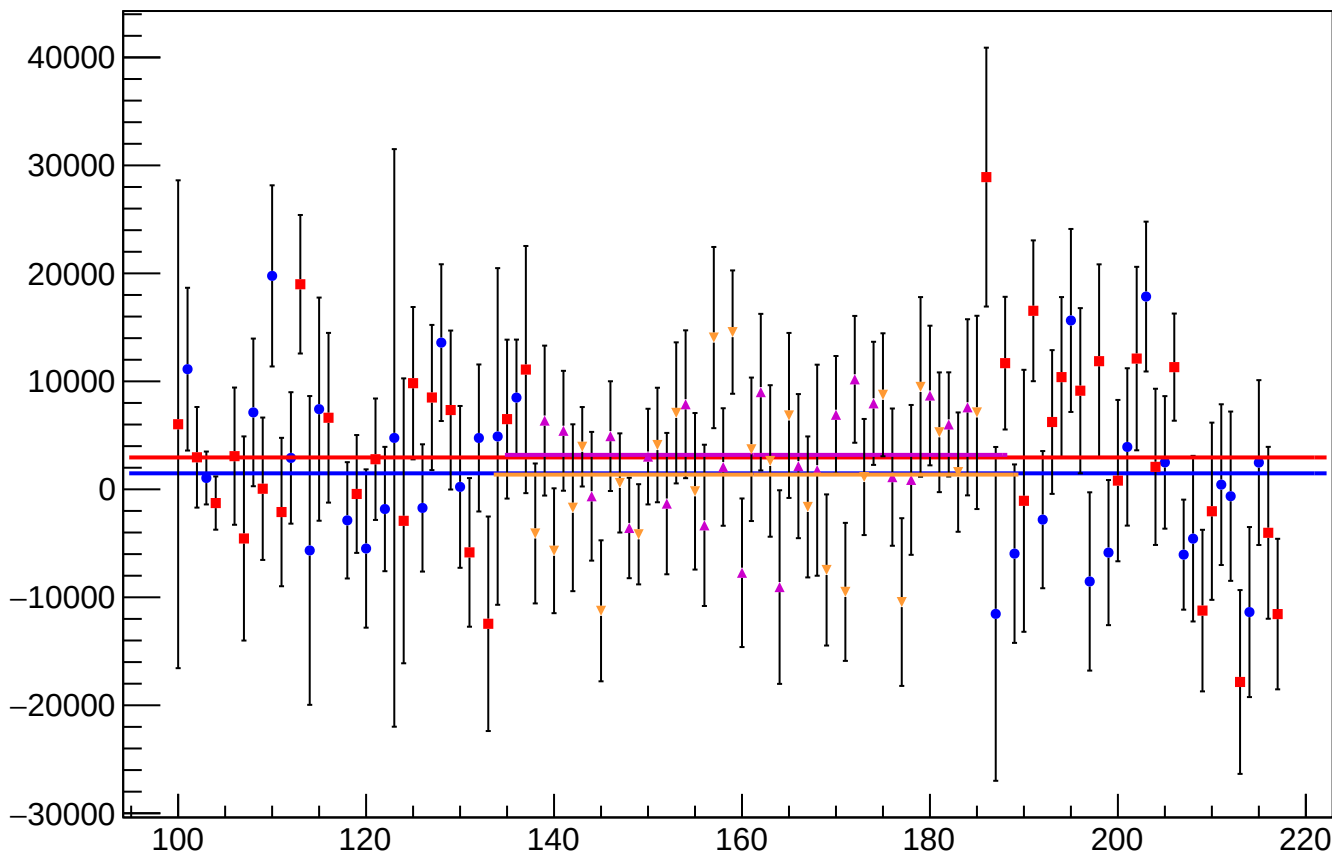
Right: 5745.988±/-0.882 χ^2/NDF : 1900491.6/31

In: 5902.293±/-1.293 χ^2/NDF : 382658.3/14

Out: 0.000±/-0.000 χ^2/NDF : 0.0/0

All: 5745.988±/-0.882 χ^2/NDF : 1900491.6/31

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1481.399+/-1150.579 χ^2/NDF : 33.4/31

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 2952.928+/-1097.274 χ^2/NDF : 51.3/35

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

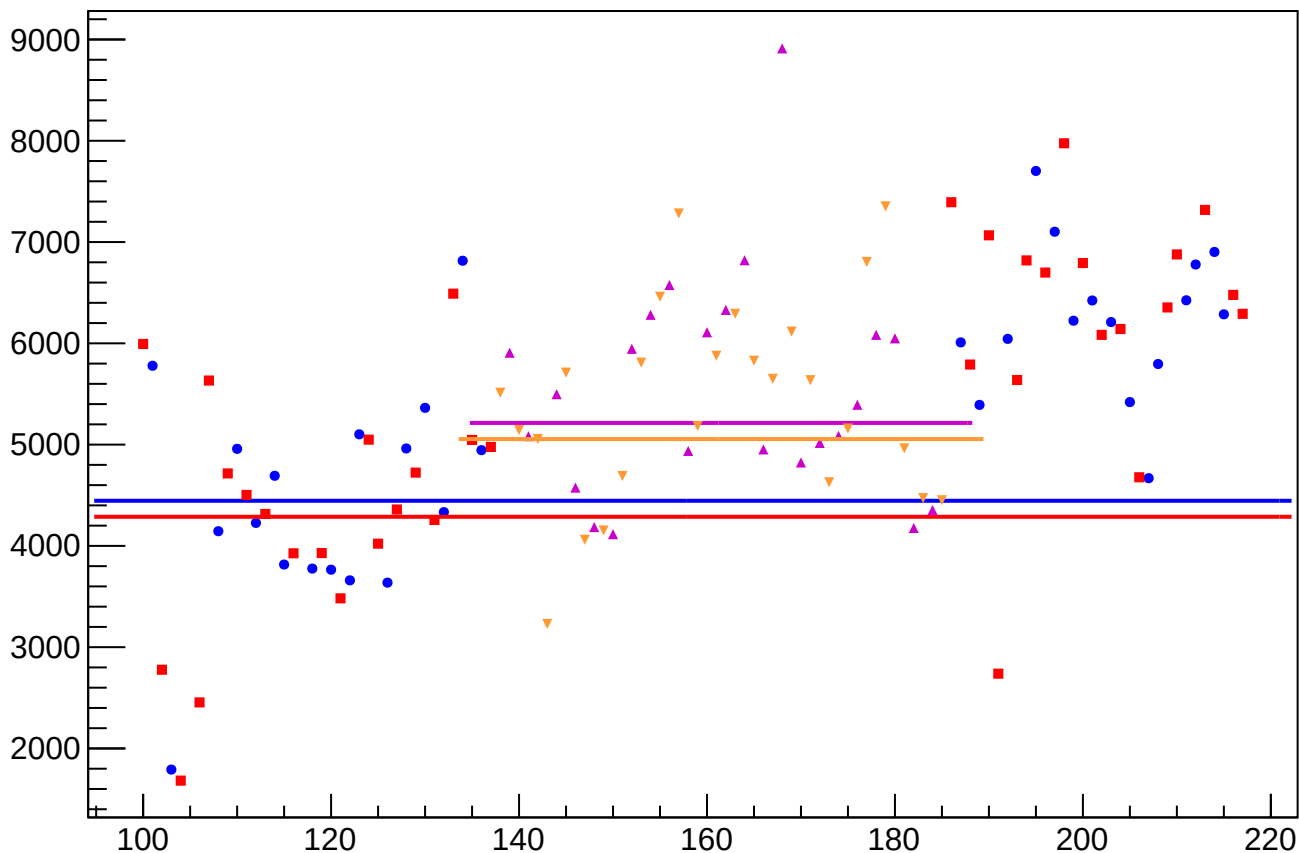
Right: 2252.039+/-794.066 χ^2/NDF : 85.6/67

In: 2252.118+/-852.690 χ^2/NDF : 48.4/54

Out: 2233.967+/-811.694 χ^2/NDF : 80.2/60

All: 2242.596+/-587.913 χ^2/NDF : 128.7/115

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4445.547 $\pm$ 0.814 χ^2 /NDF: 4500856.6/31

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 4287.516 $\pm$ 0.771 χ^2 /NDF: 5638987.2/35

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

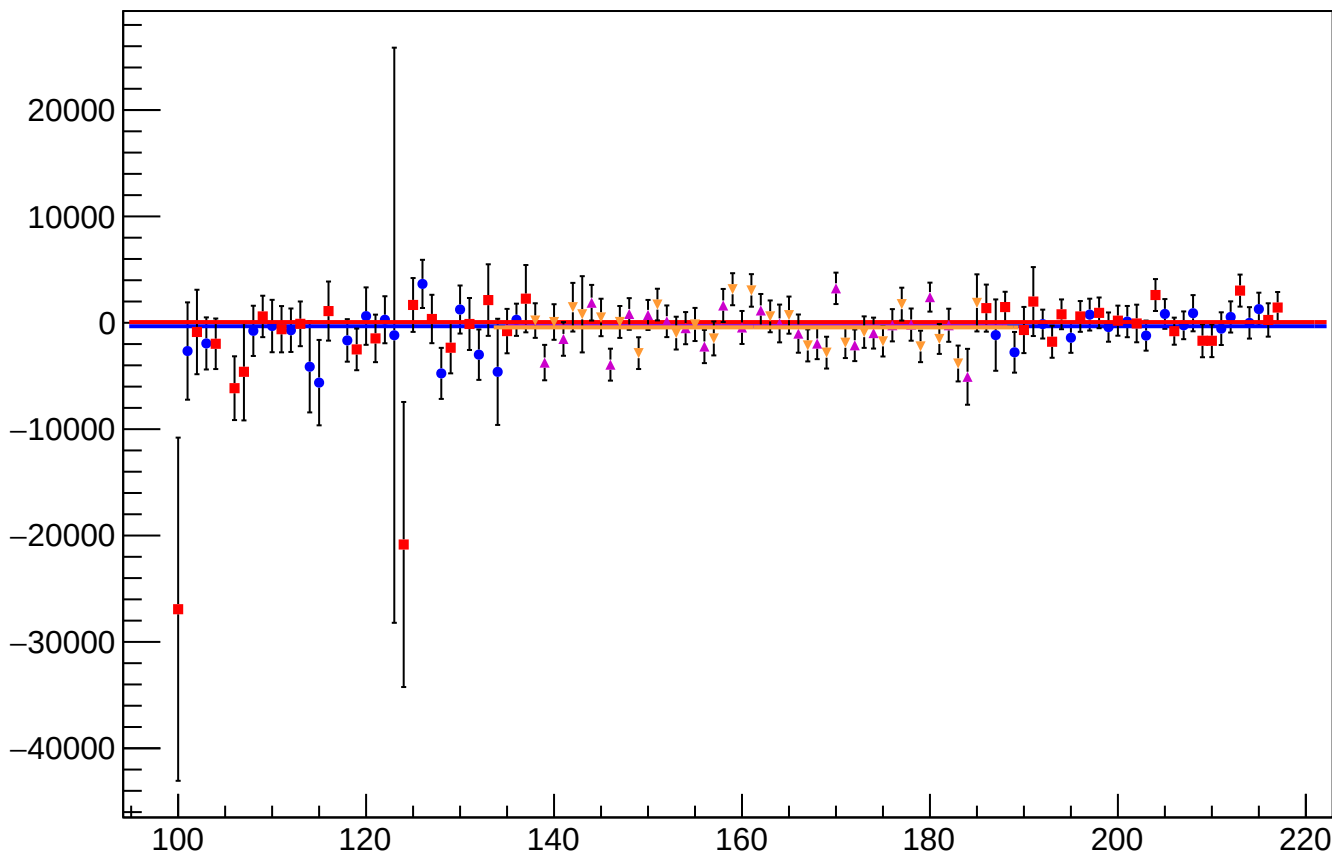
Right: 4362.328 $\pm$ 0.560 χ^2 /NDF: 10159712.5/67

In: 4791.995 $\pm$ 0.603 χ^2 /NDF:5955643.7/54

Out: 4632.681 $\pm$ 0.572 χ^2 /NDF:7521244.6/60

All: 4708.163 $\pm$ 0.415 χ^2 /NDF: 13513626.5/121

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -324.170+/-328.285 χ^2/NDF : 19.1/31

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: 68.163+/-320.280 χ^2/NDF : 31.1/35

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

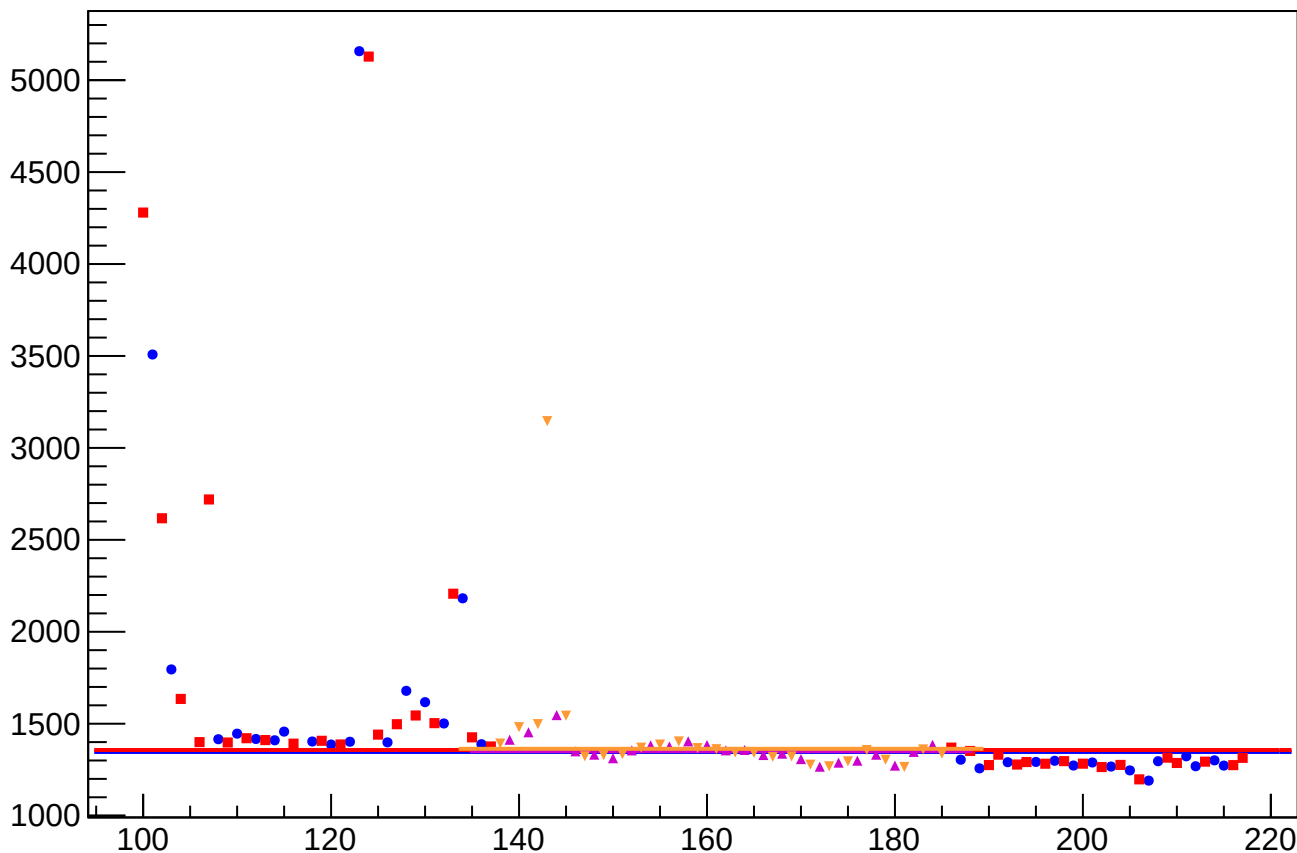
Right: -123.161+/-229.250 χ^2/NDF : 50.9/67

In: -334.071+/-230.735 χ^2/NDF : 52.9/54

Out: -181.573+/-226.564 χ^2/NDF : 65.4/60

All: -256.431+/-161.660 χ^2/NDF : 118.5/115

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1346.501 $\pm$ 0.232 χ^2 /NDF: 781691.6/31

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1356.935 $\pm$ 0.226 χ^2 /NDF: 882692.2/35

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

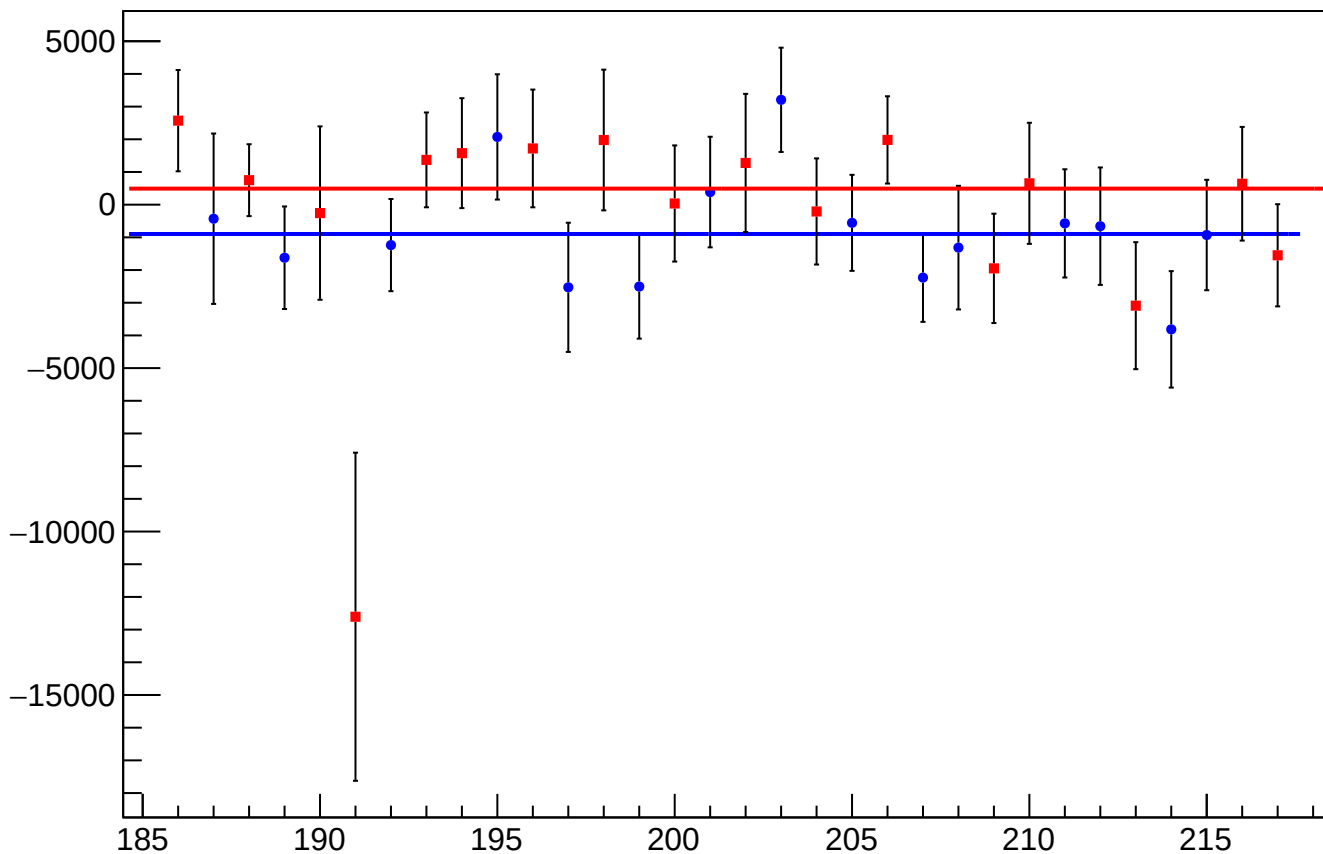
Right: 1351.847 $\pm$ 0.162 χ^2 /NDF: 1665418.8/67

In: 1348.731 $\pm$ 0.163 χ^2 /NDF: 849018.5/54

Out: 1360.245 $\pm$ 0.160 χ^2 /NDF: 1458346.5/60

All: 1354.593 $\pm$ 0.114 χ^2 /NDF: 2309900.6/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -897.613+/-432.317 χ^2/NDF : 15.4/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 490.617+/-411.206 χ^2/NDF : 19.3/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

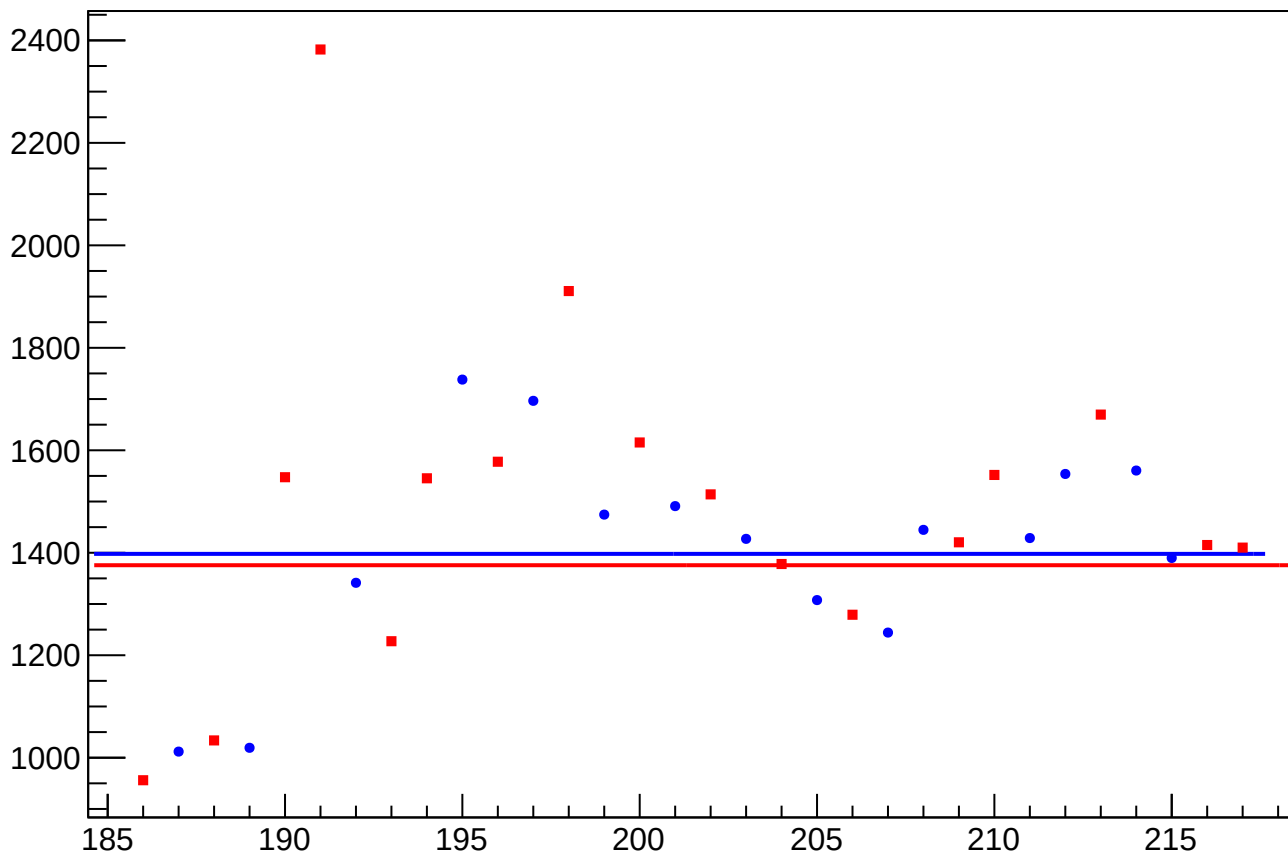
Right: -168.777+/-297.950 χ^2/NDF : 40.2/31

In: -897.613+/-432.317 χ^2/NDF : 15.4/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -168.777+/-297.950 χ^2/NDF : 40.2/31

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1397.840+/-0.306 χ^2/NDF : 350547.5/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1375.695+/-0.291 χ^2/NDF : 741623.9/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

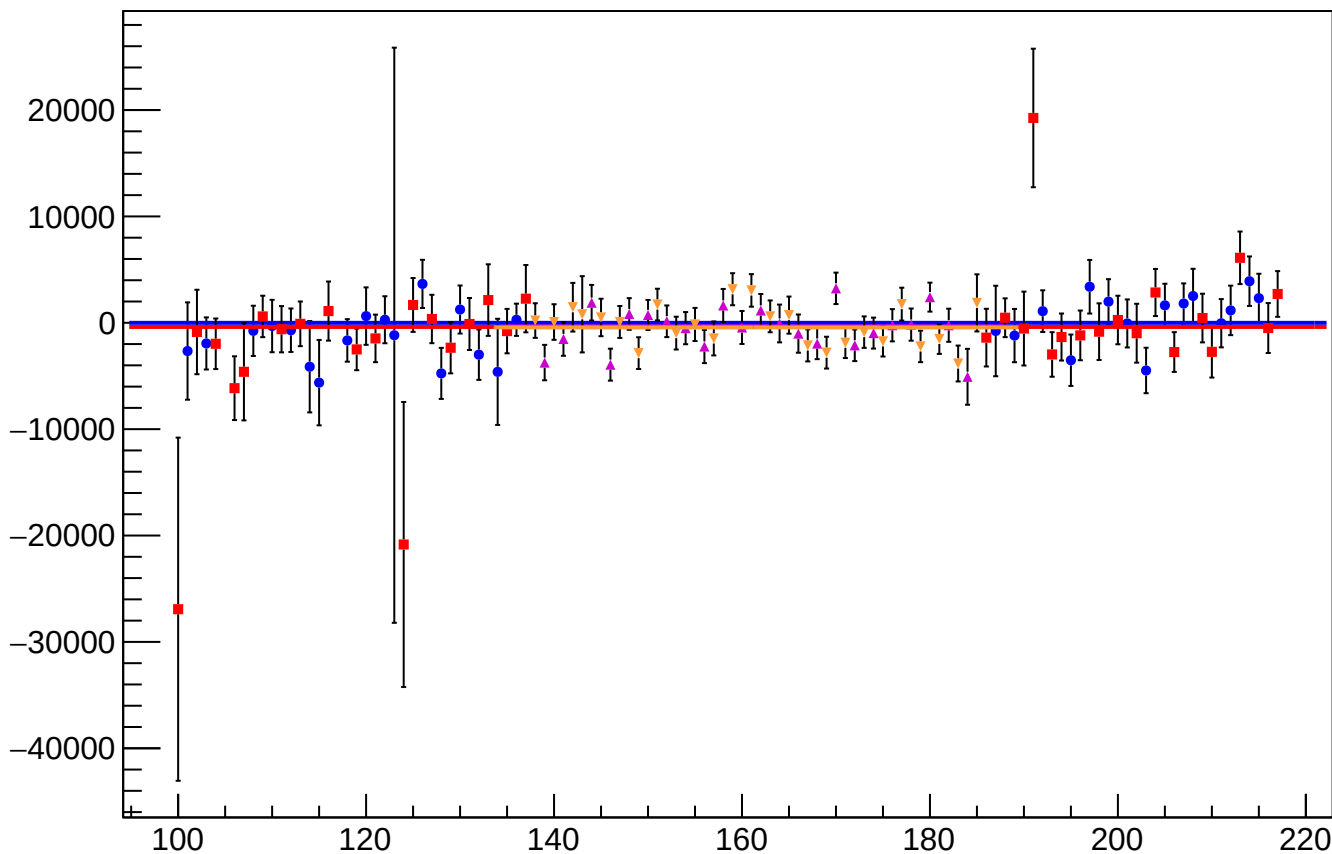
Right: 1386.214+/-0.211 χ^2/NDF : 1094926.6/31

In: 1397.840+/-0.306 χ^2/NDF : 350547.5/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1386.214+/-0.211 χ^2/NDF : 1094926.6/31

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -3.701 ± 422.631 χ^2/NDF : 30.6/31

Left Out: -431.715 ± 320.540 χ^2/NDF : 33.1/24

Right Out: -389.237 ± 413.575 χ^2/NDF : 40.0/35

Left In: -343.737 ± 324.368 χ^2/NDF : 33.8/22

Left: -388.248 ± 227.997 χ^2/NDF : 66.9/47

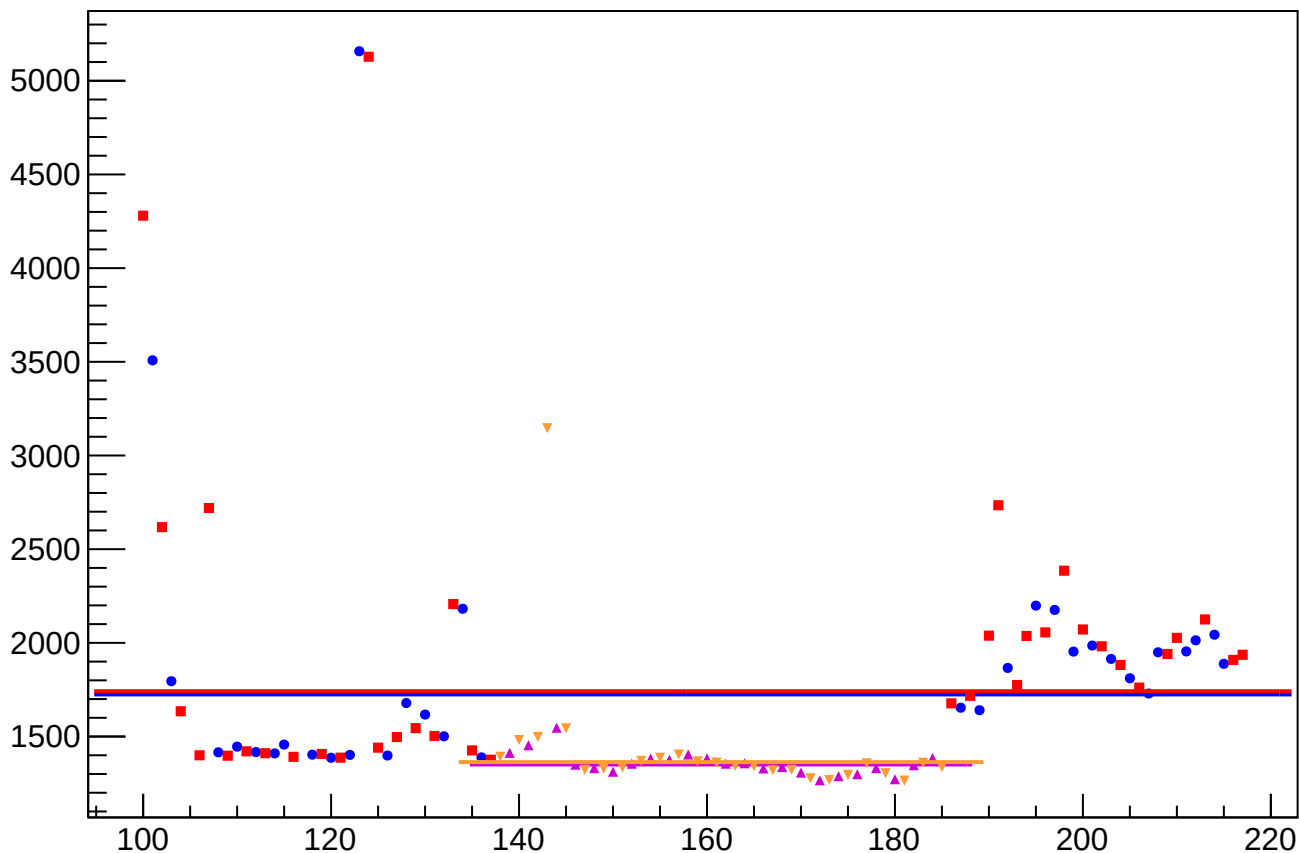
Right: -200.644 ± 295.592 χ^2/NDF : 71.0/67

In: -217.688 ± 257.318 χ^2/NDF : 64.8/54

Out: -415.774 ± 253.354 χ^2/NDF : 73.1/60

All: -318.268 ± 180.533 χ^2/NDF : 138.2/115

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1724.760 ± 0.299 $\chi^2/\text{NDF}: 110630.6/31$

Left Out: 1363.561 ± 0.227 $\chi^2/\text{NDF}: 575226.6/24$

Right Out: 1741.759 ± 0.292 $\chi^2/\text{NDF}: 1321144.8/35$

Left In: 1350.909 ± 0.229 $\chi^2/\text{NDF}: 67144.5/22$

Left: 1357.310 ± 0.161 $\chi^2/\text{NDF}: 643910.7/47$

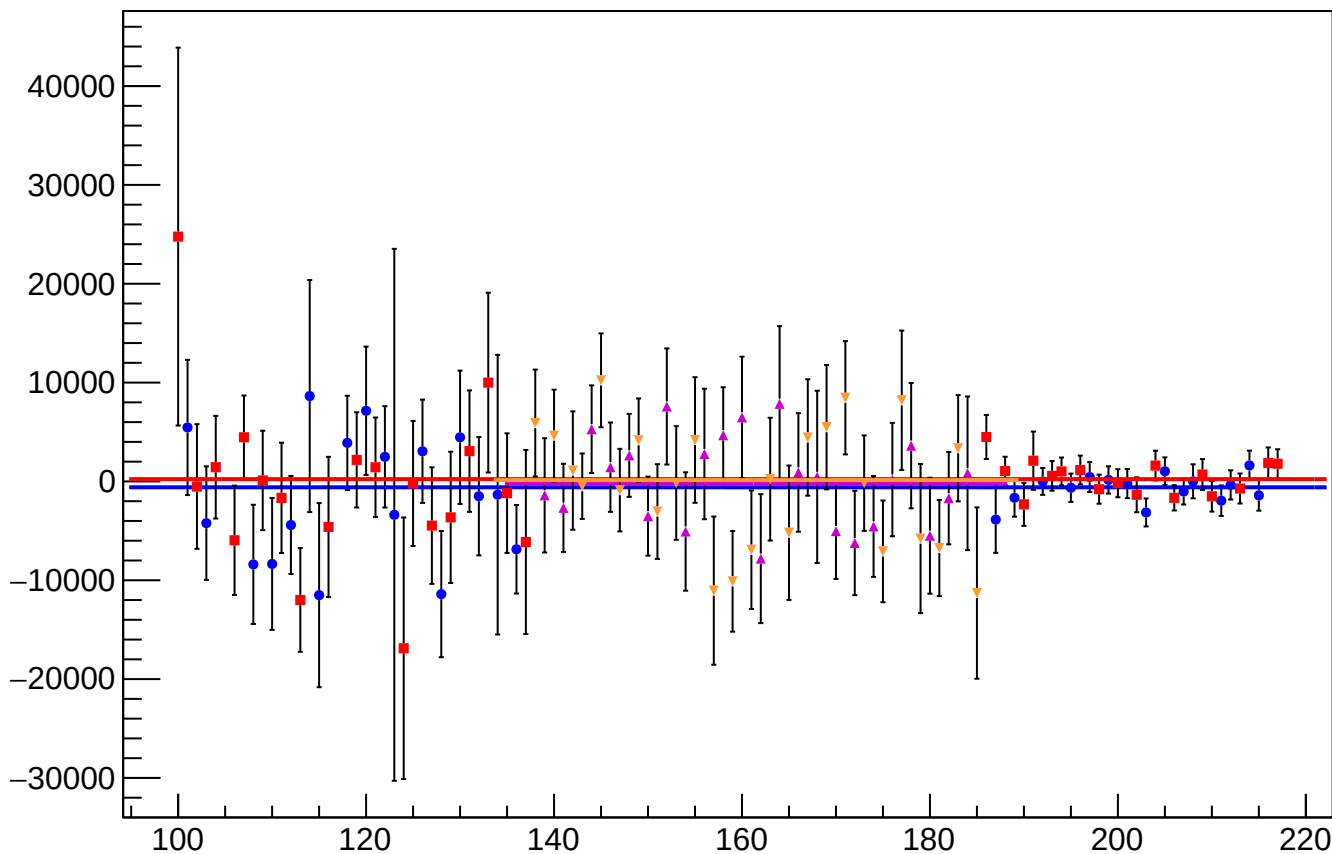
Right: 1733.444 ± 0.209 $\chi^2/\text{NDF}: 2429428.2/67$

In: 1489.494 ± 0.182 $\chi^2/\text{NDF}: 2158620.6/54$

Out: 1505.489 ± 0.179 $\chi^2/\text{NDF}: 2941219.8/60$

All: 1497.616 ± 0.128 $\chi^2/\text{NDF}: 5103764.6/11$

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -593.407 $\pm$ 380.142 χ^2 /NDF: 25.7/31

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: 233.276 $\pm$ 367.350 χ^2 /NDF: 29.5/35

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF:14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

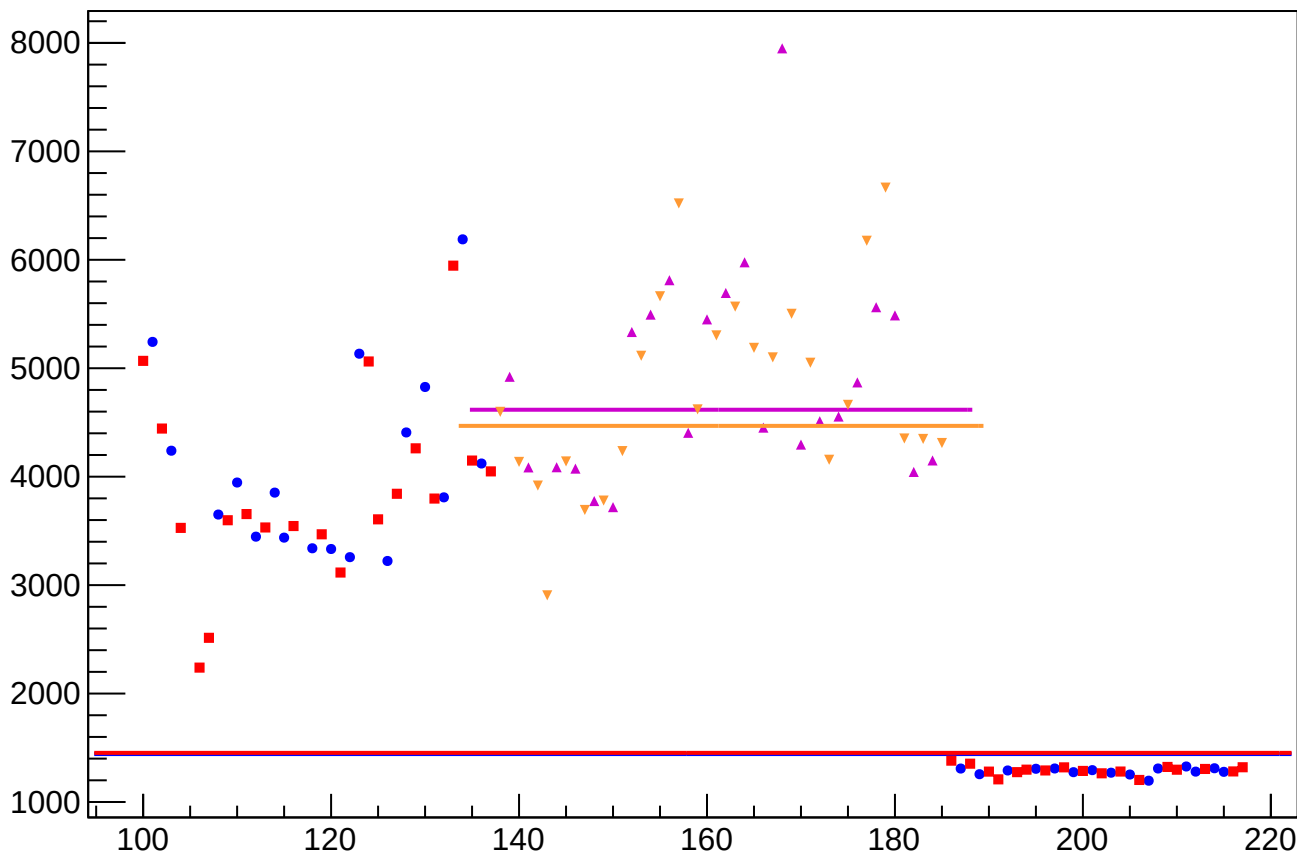
Right: -165.921 $\pm$ 264.162 χ^2 /NDF: 57.7/67

In: -553.013 $\pm$ 360.089 χ^2 /NDF:40.6/54

Out: 222.533 $\pm$ 347.290 χ^2 /NDF:57.7/60

All: -151.213 $\pm$ 249.973 χ^2 /NDF: 100.6/115

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1442.016 $\pm$ 0.269 χ^2 /NDF: 5692013.4/31

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 1453.096 $\pm$ 0.260 χ^2 /NDF: 5527340.8/35

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF:999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

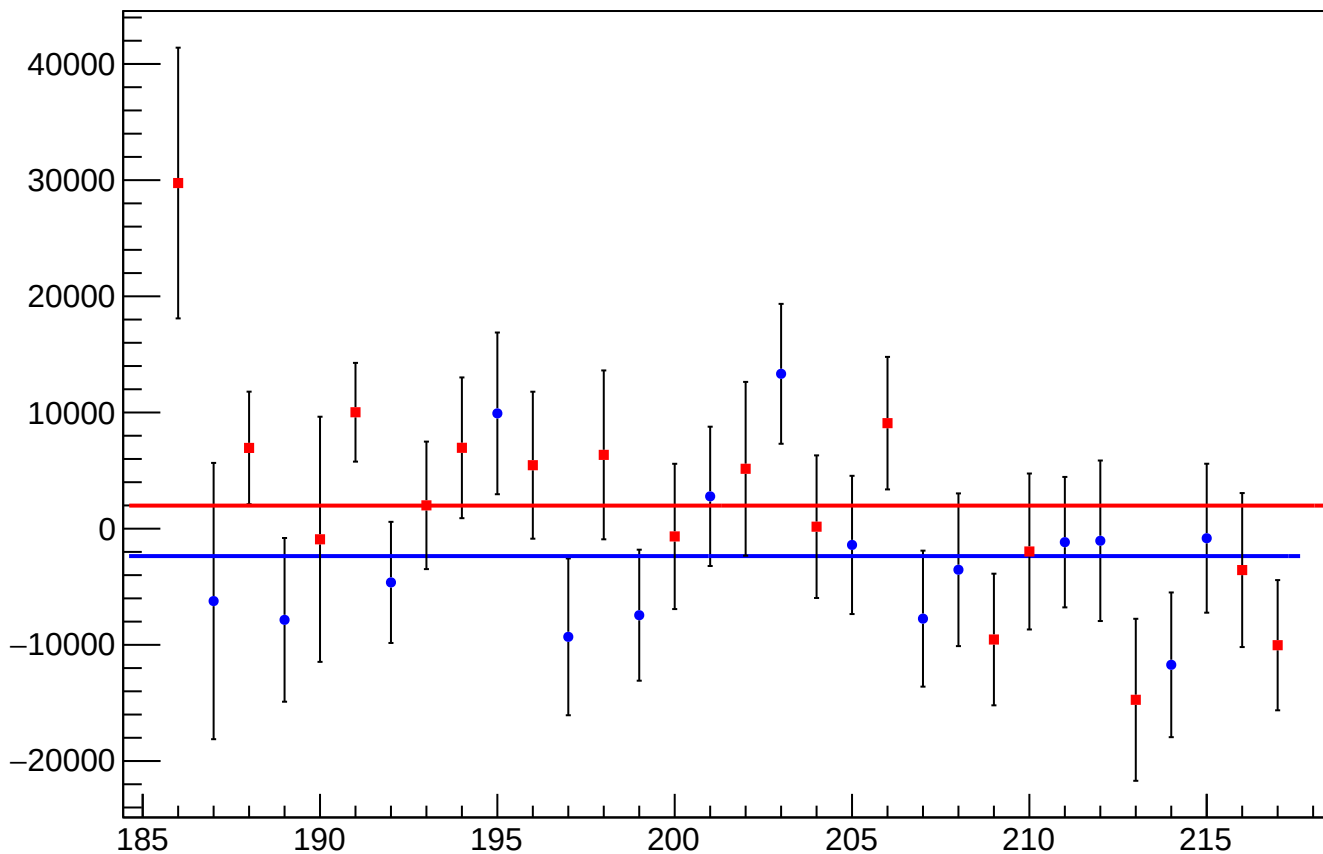
Right: 1447.749 $\pm$ 0.187 χ^2 /NDF: 11220233.4/67

In: 1768.193 $\pm$ 0.255 χ^2 /NDF:21025821.2/54

Out: 1773.047 $\pm$ 0.245 χ^2 /NDF:21225585.0/60

All: 1770.709 $\pm$ 0.177 χ^2 /NDF: 42251594.6/117

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2359.880+/-1628.997 χ^2/NDF : 16.7/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1985.922+/-1494.050 χ^2/NDF : 29.2/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

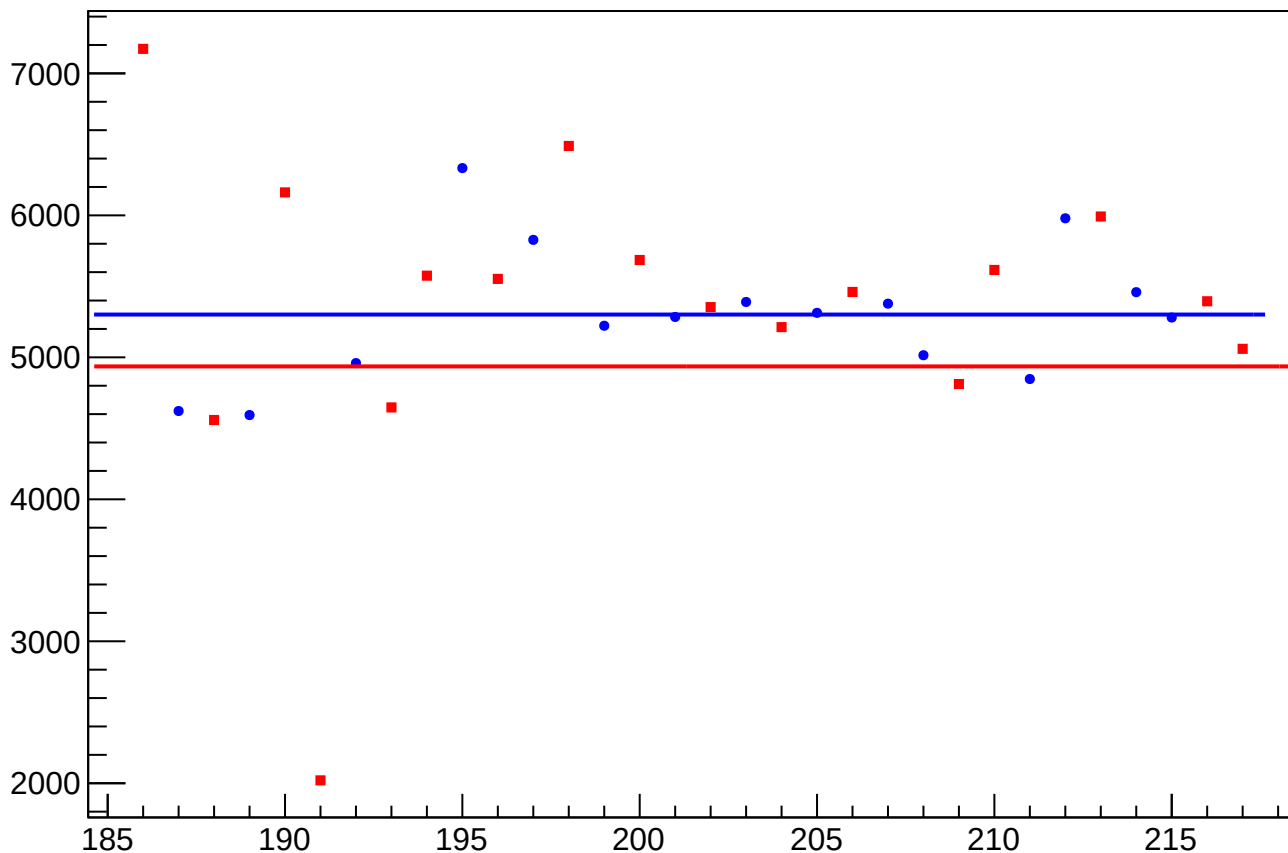
Right: 0.453+/-1101.075 χ^2/NDF : 49.8/31

In: -2359.880+/-1628.997 χ^2/NDF : 16.7/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.453+/-1101.075 χ^2/NDF : 49.8/31

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5301.344+/-1.152 χ^2/NDF : 130035.3/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4936.112+/-1.056 χ^2/NDF : 1326228.1/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

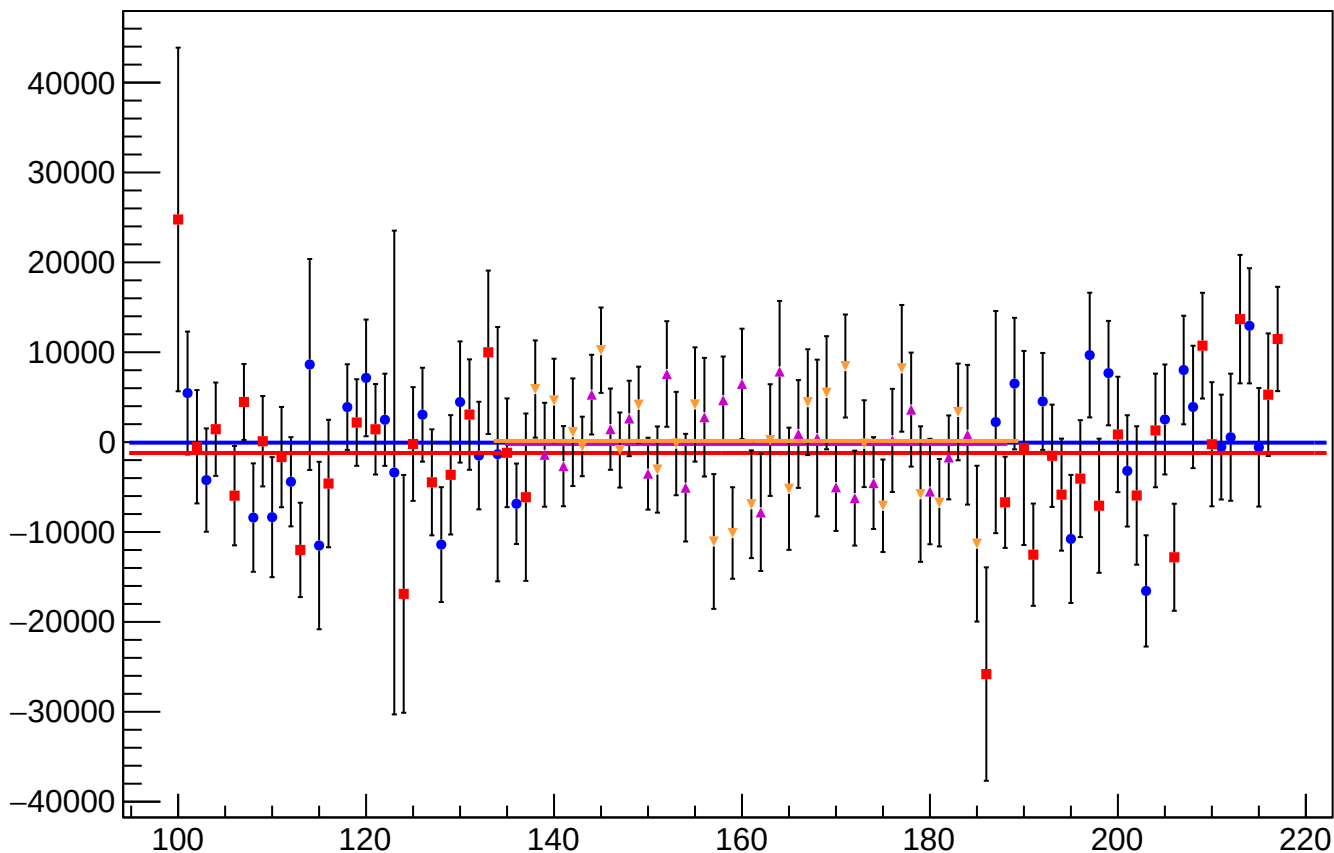
Right: 5102.976+/-0.779 χ^2/NDF : 1510868.2/31

In: 5301.344+/-1.152 χ^2/NDF : 130035.3/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5102.976+/-0.779 χ^2/NDF : 1510868.2/31

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -57.237 $\pm$ 1126.178 χ^2/NDF : 37.4/31

Left Out: 132.142 $\pm$ 1065.543 χ^2/NDF :28.1/24

Right Out: -1205.018 $\pm$ 1041.277 χ^2/NDF : 43.5/35

Left In: -200.182 $\pm$ 1123.499 χ^2/NDF :14.7/22

Left: -25.227 $\pm$ 773.130 χ^2/NDF : 42.9/47

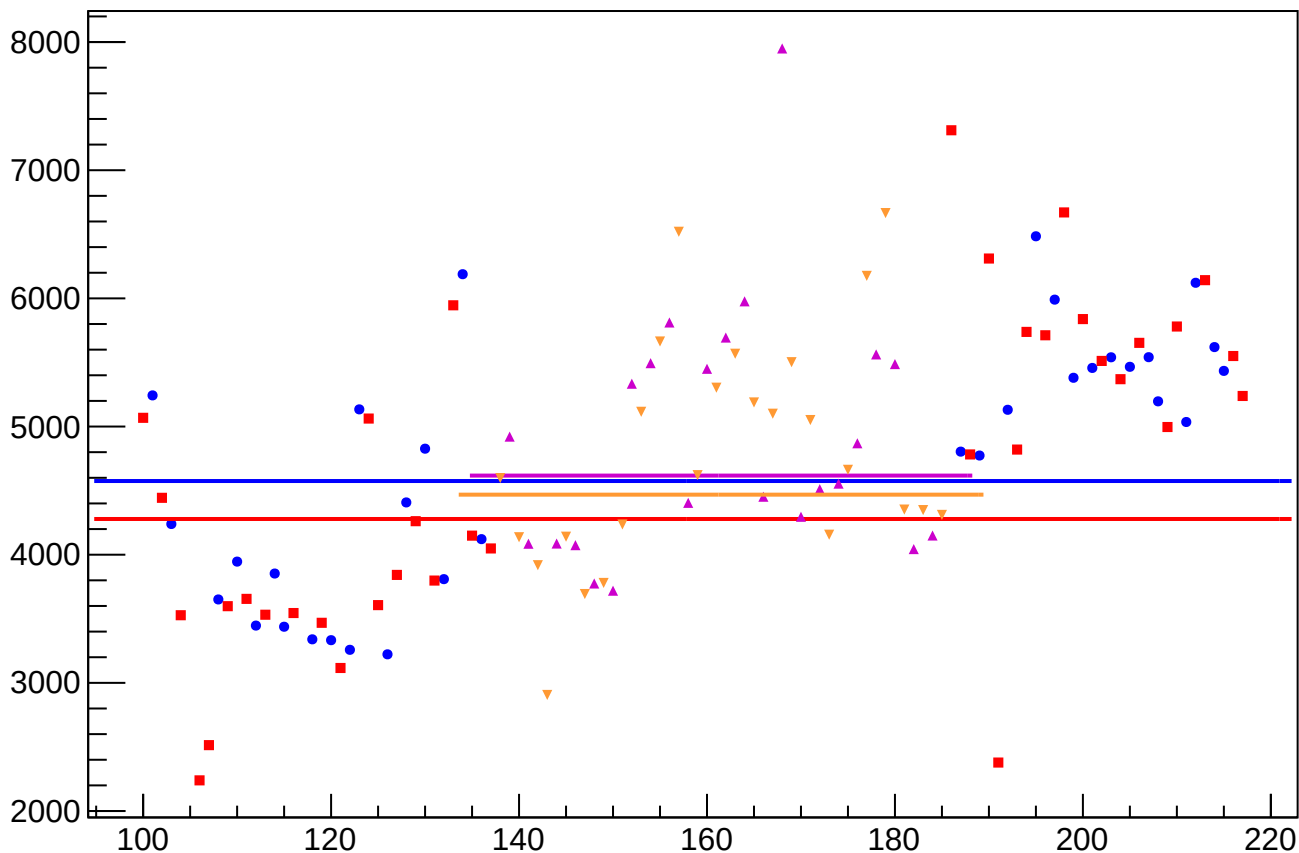
Right: -676.018 $\pm$ 764.549 χ^2/NDF : 81.4/67

In: -128.880 $\pm$ 795.379 χ^2/NDF :52.1/54

Out: -551.837 $\pm$ 744.725 χ^2/NDF :72.4/60

All: -354.254 $\pm$ 543.626 χ^2/NDF : 124.7/115

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4574.917 $\pm$ 0.796 χ^2 /NDF: 1473094.4/31

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 4278.663 $\pm$ 0.732 χ^2 /NDF: 2752078.1/35

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF:999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

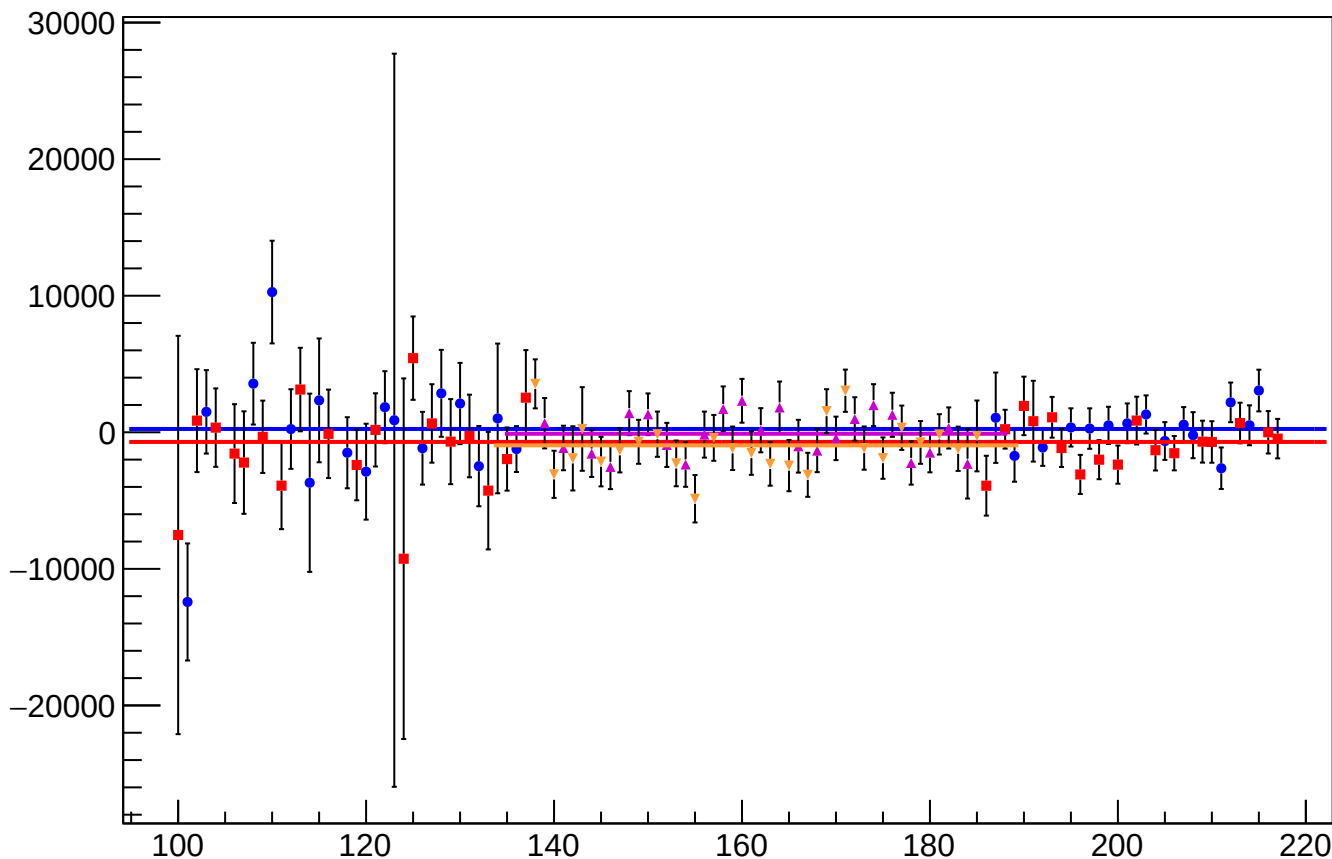
Right: 4414.434 $\pm$ 0.539 χ^2 /NDF: 4300148.3/67

In: 4596.155 $\pm$ 0.562 χ^2 /NDF:2474113.6/54

Out: 4370.908 $\pm$ 0.525 χ^2 /NDF:4165324.2/60

All: 4475.830 $\pm$ 0.384 χ^2 /NDF: 6725122.3/11

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 244.184 ± 343.838 χ^2/NDF : 34.6/31

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -705.538 ± 334.219 χ^2/NDF : 23.9/35

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

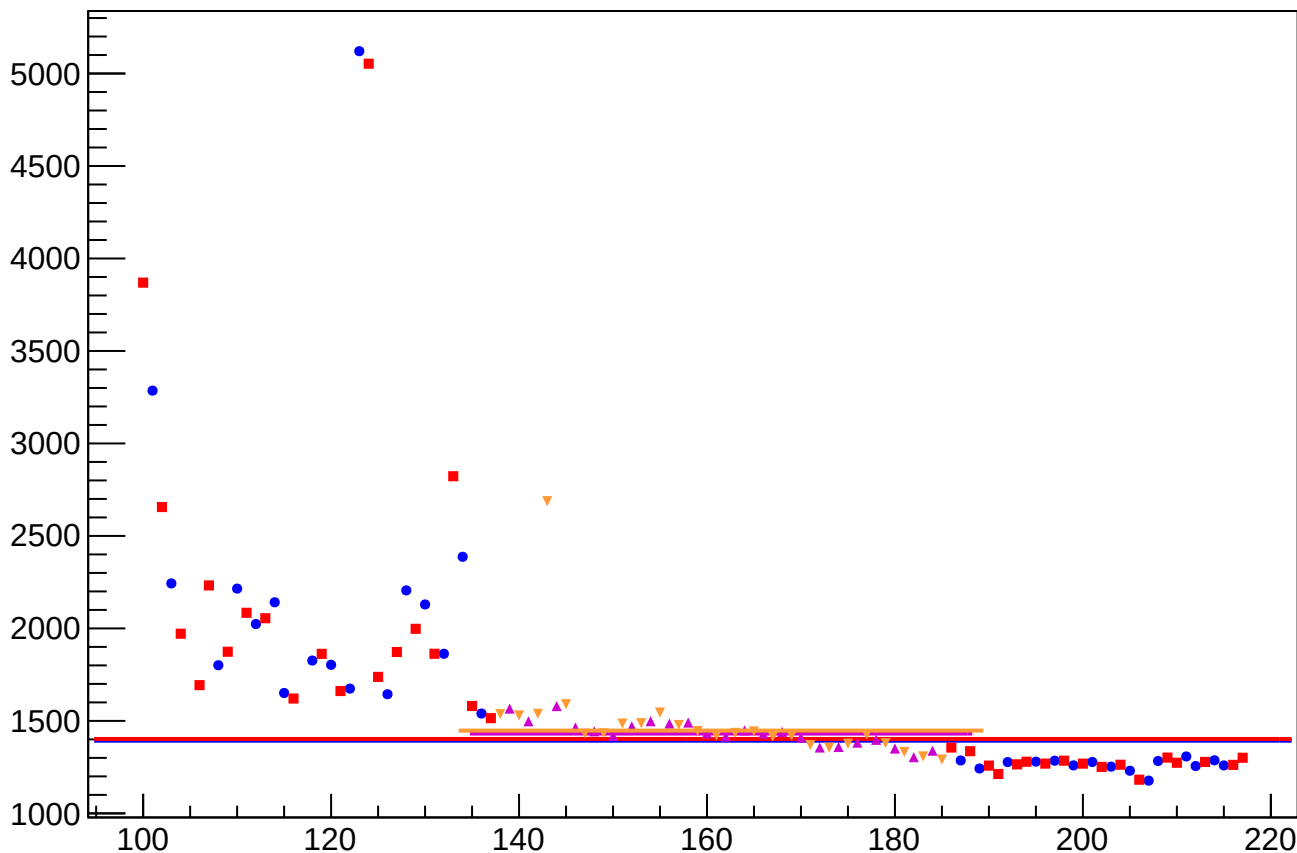
Right: -244.146 ± 239.657 χ^2/NDF : 62.4/67

In: 68.246 ± 243.068 χ^2/NDF : 54.6/54

Out: -829.993 ± 238.172 χ^2/NDF : 52.7/60

All: -390.010 ± 170.118 χ^2/NDF : 114.3/115

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1393.016 $\pm$ 0.243 χ^2 /NDF: 1598790.1/31

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1402.348 $\pm$ 0.236 χ^2 /NDF: 1648512.3/35

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

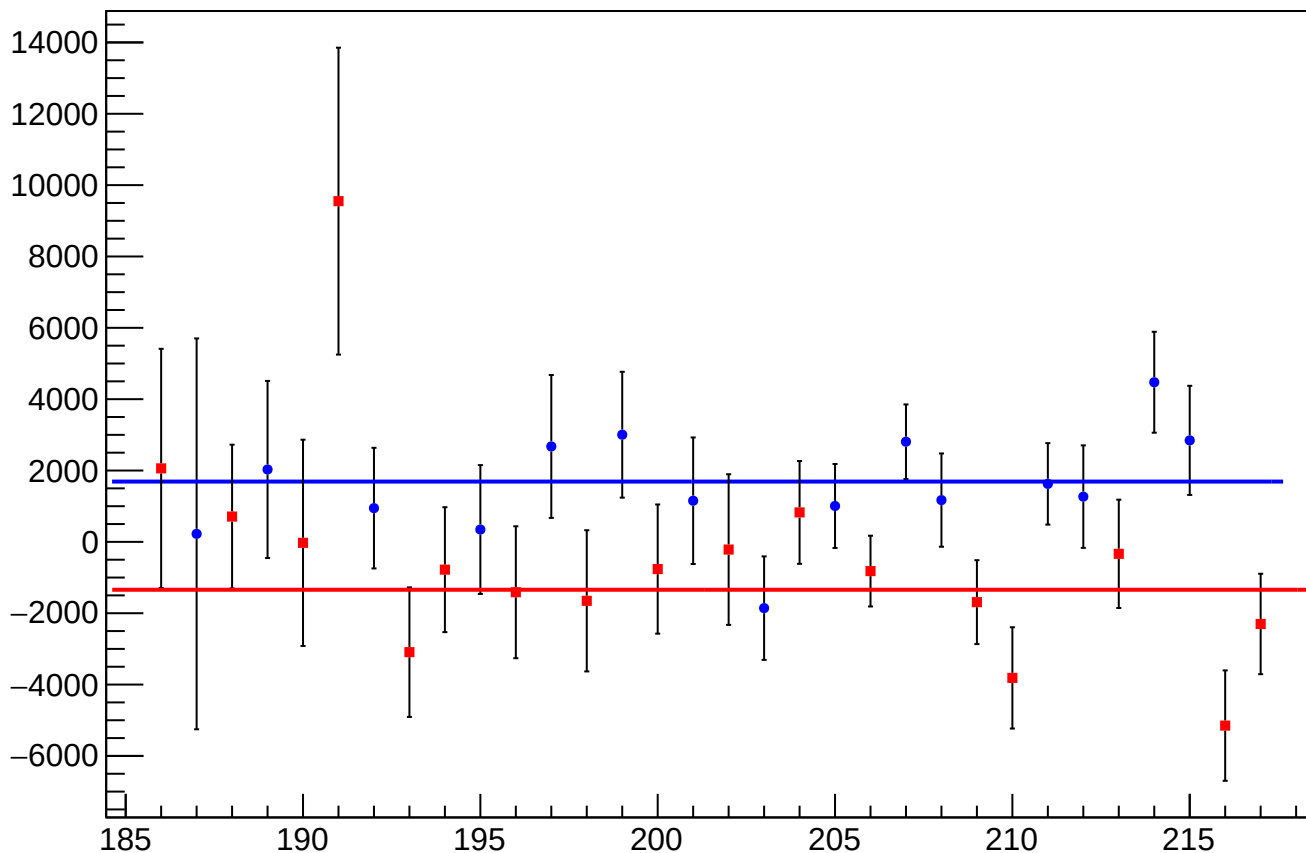
Right: 1397.814 $\pm$ 0.169 χ^2 /NDF: 3248059.9/67

In: 1412.246 $\pm$ 0.172 χ^2 /NDF: 1686425.0/54

Out: 1424.597 $\pm$ 0.168 χ^2 /NDF: 2085775.8/60

All: 1418.547 $\pm$ 0.120 χ^2 /NDF: 3774835.5/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1690.450+/-388.754 χ^2/NDF : 13.9/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1342.227+/-398.729 χ^2/NDF : 22.8/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

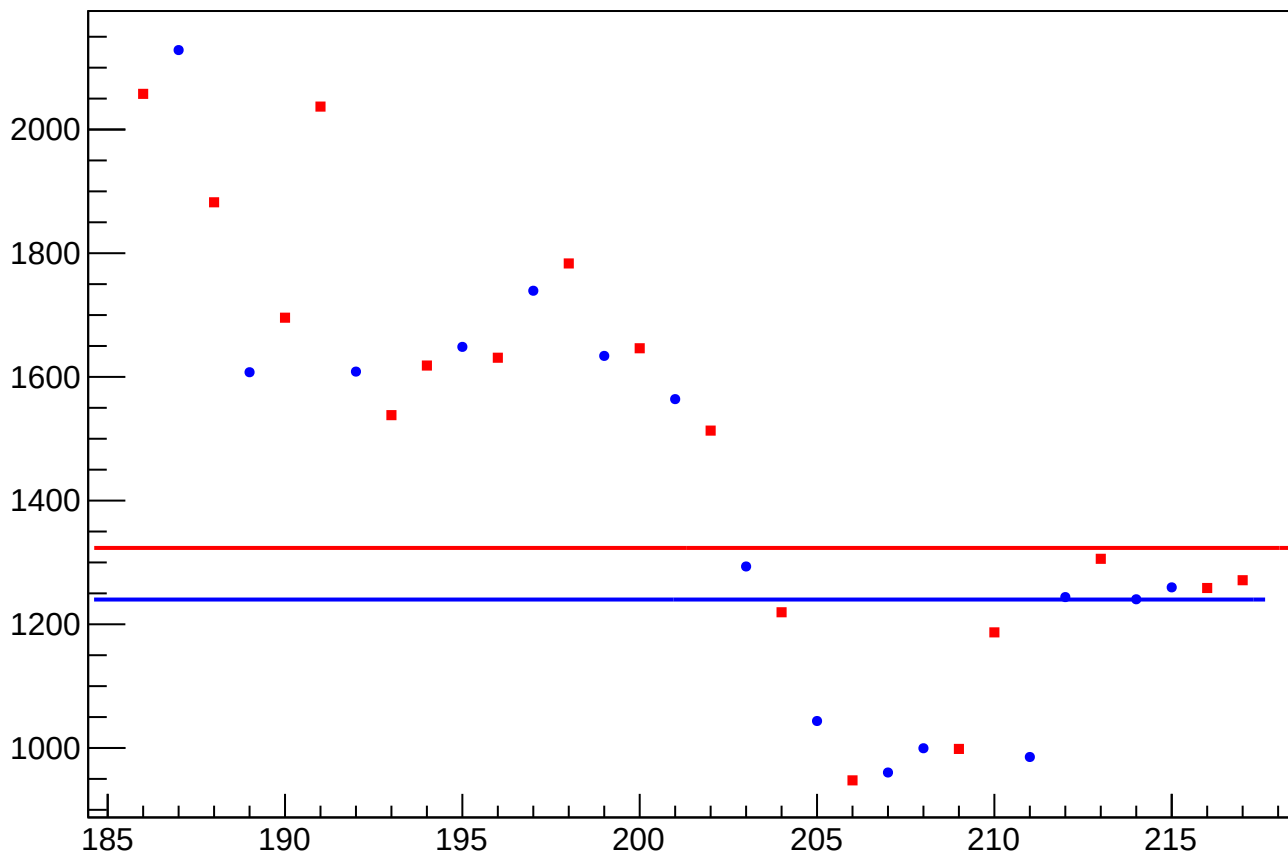
Right: 212.520+/-278.350 χ^2/NDF : 66.3/31

In: 1690.450+/-388.754 χ^2/NDF : 13.9/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 212.520+/-278.350 χ^2/NDF : 66.3/31

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1240.021+/-0.275 χ^2/NDF : 953622.7/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1323.459+/-0.282 χ^2/NDF : 1141386.5/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

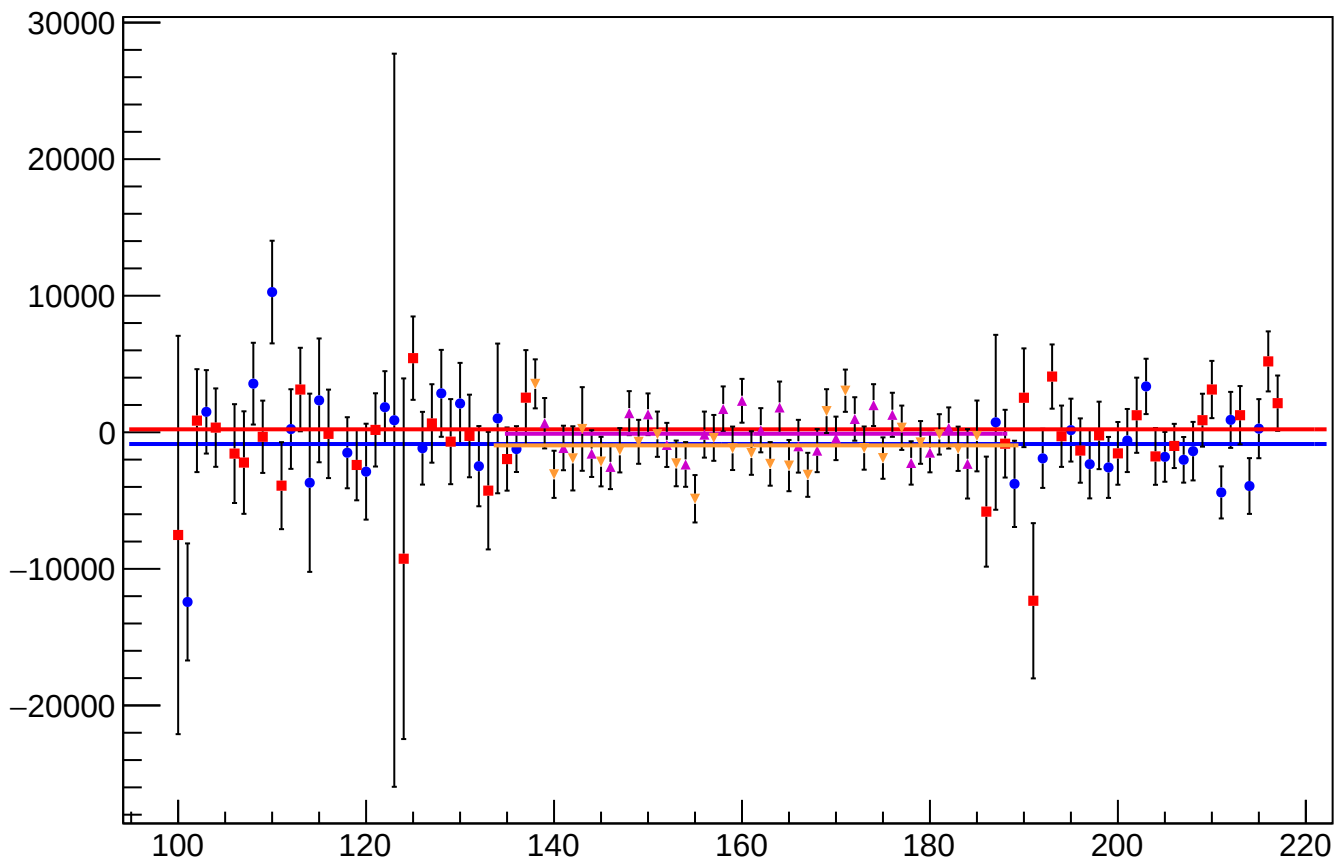
Right: 1280.683+/-0.197 χ^2/NDF : 2139908.6/31

In: 1240.021+/-0.275 χ^2/NDF : 953622.7/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1280.683+/-0.197 χ^2/NDF : 2139908.6/31

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -858.455+/-450.598 χ^2/NDF : 38.1/31

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: 217.658+/-447.233 χ^2/NDF : 32.0/35

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

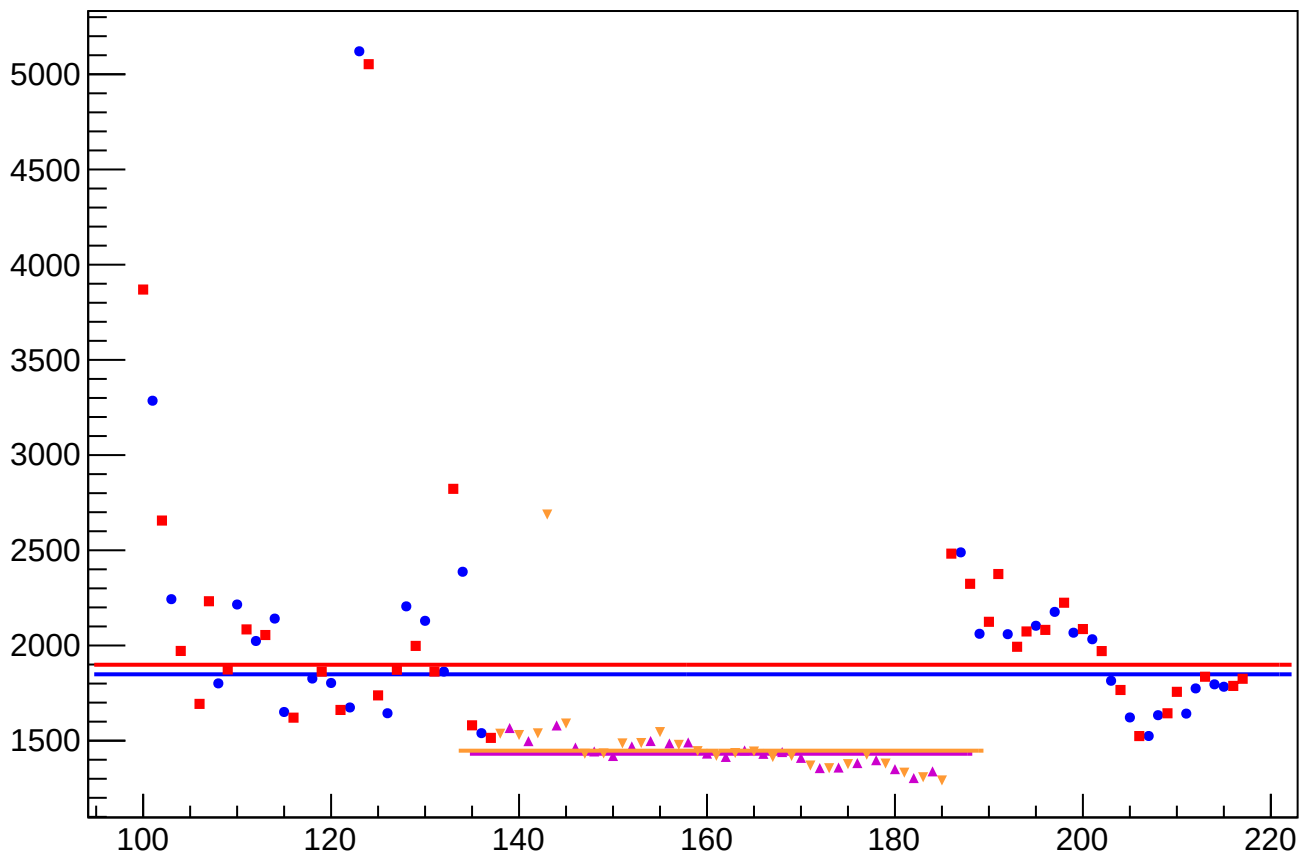
Right: -316.365+/-317.425 χ^2/NDF : 73.0/67

In: -383.680+/-273.258 χ^2/NDF : 59.3/54

Out: -528.465+/-270.411 χ^2/NDF : 64.9/60

All: -456.831+/-192.208 χ^2/NDF : 124.4/115

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1848.653 $\pm$ 0.319 χ^2 /NDF: 768205.5/31

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1898.863 $\pm$ 0.316 χ^2 /NDF: 828329.8/35

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

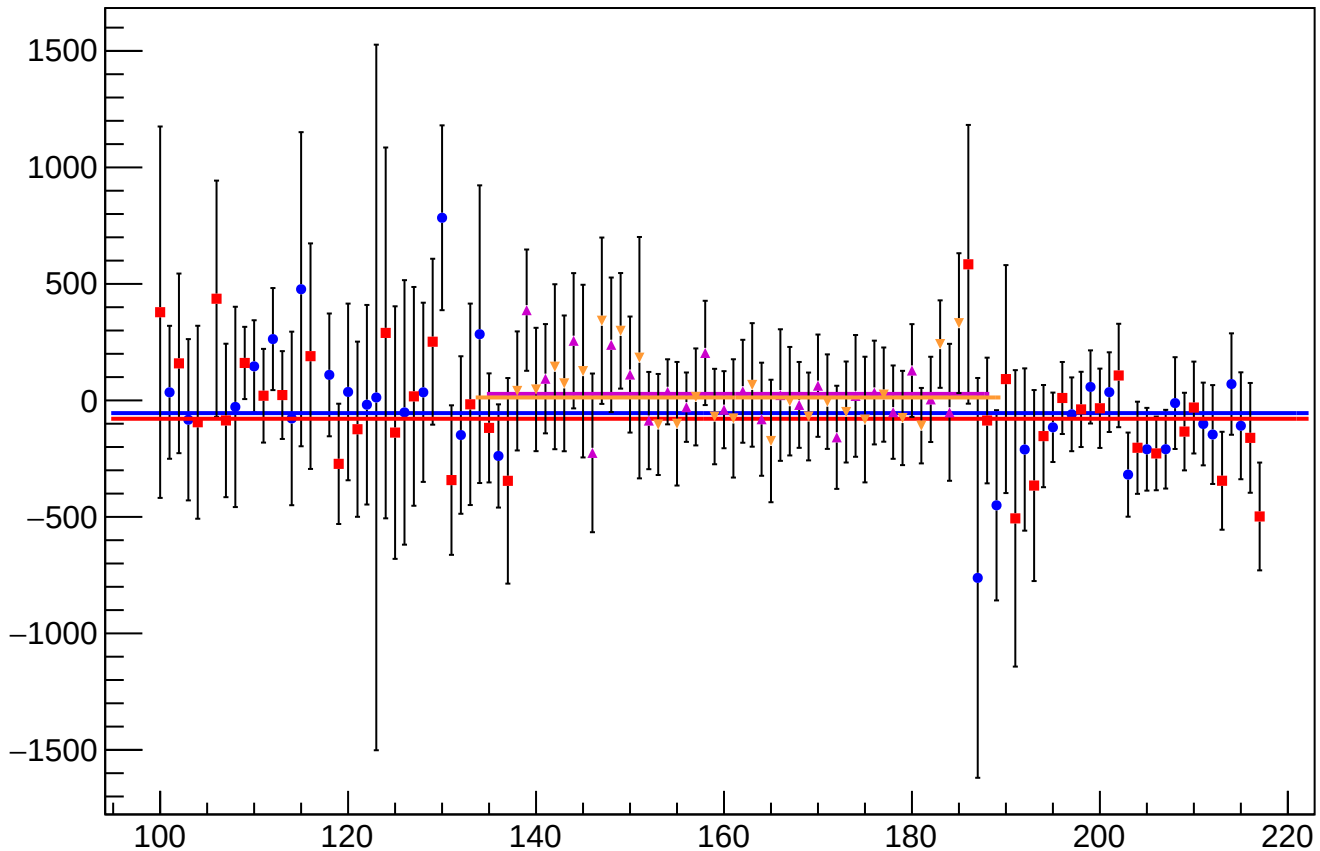
Right: 1873.946 $\pm$ 0.224 χ^2 /NDF: 1609045.2/67

In: 1584.885 $\pm$ 0.193 χ^2 /NDF: 1927302.5/54

Out: 1612.545 $\pm$ 0.191 χ^2 /NDF: 2539671.1/60

All: 1598.860 $\pm$ 0.136 χ^2 /NDF: 4477326.7/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.547 ± 42.662 $\chi^2/\text{NDF}: 17.1/31$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -78.749 ± 41.682 $\chi^2/\text{NDF}: 17.8/35$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

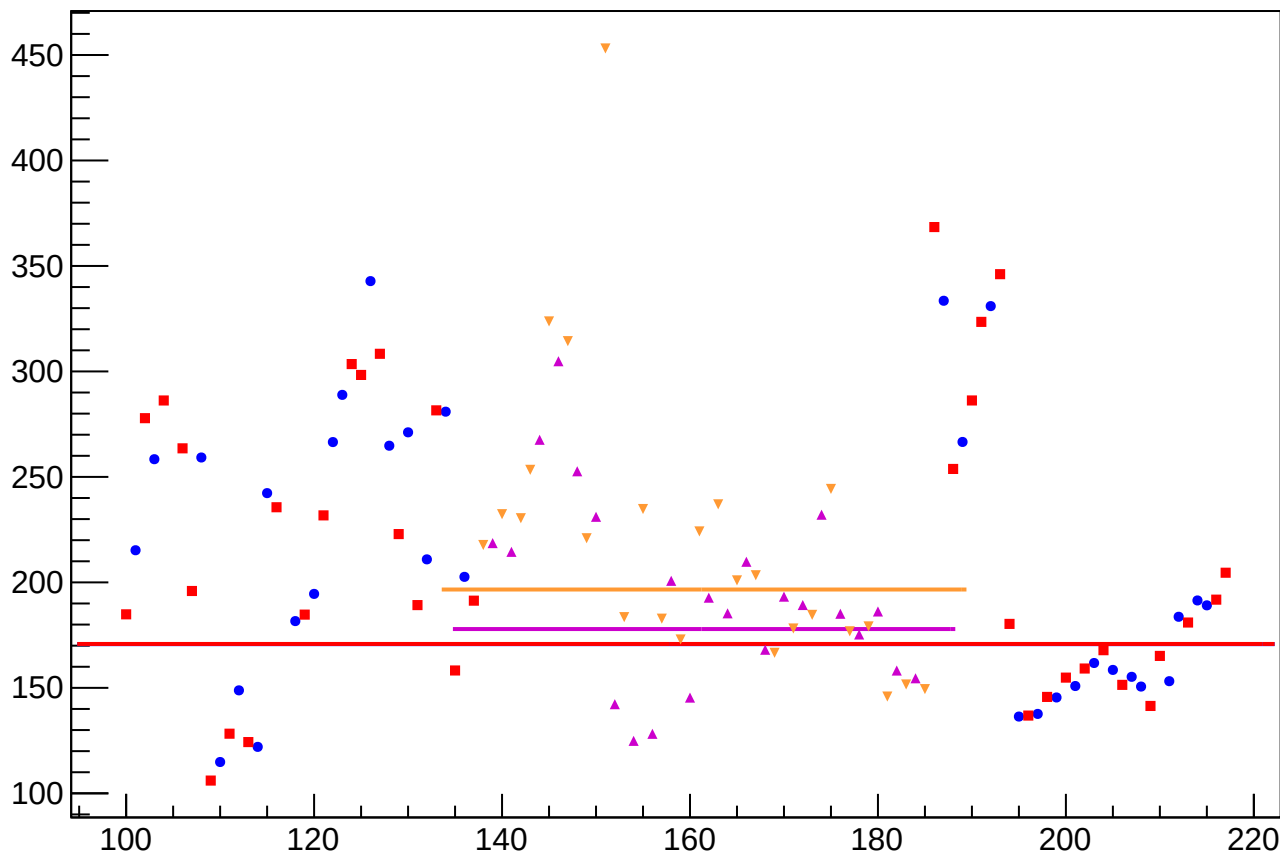
Right: -66.929 ± 29.814 $\chi^2/\text{NDF}: 35.1/67$

In: -15.073 ± 30.804 $\chi^2/\text{NDF}: 25.4/54$

Out: -38.987 ± 31.326 $\chi^2/\text{NDF}: 27.6/60$

All: -26.829 ± 21.964 $\chi^2/\text{NDF}: 53.3/115$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.722 $\pm$ 0.030 χ^2 /NDF: 2170296.7/31

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 170.810 $\pm$ 0.029 χ^2 /NDF: 2901013.0/35

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

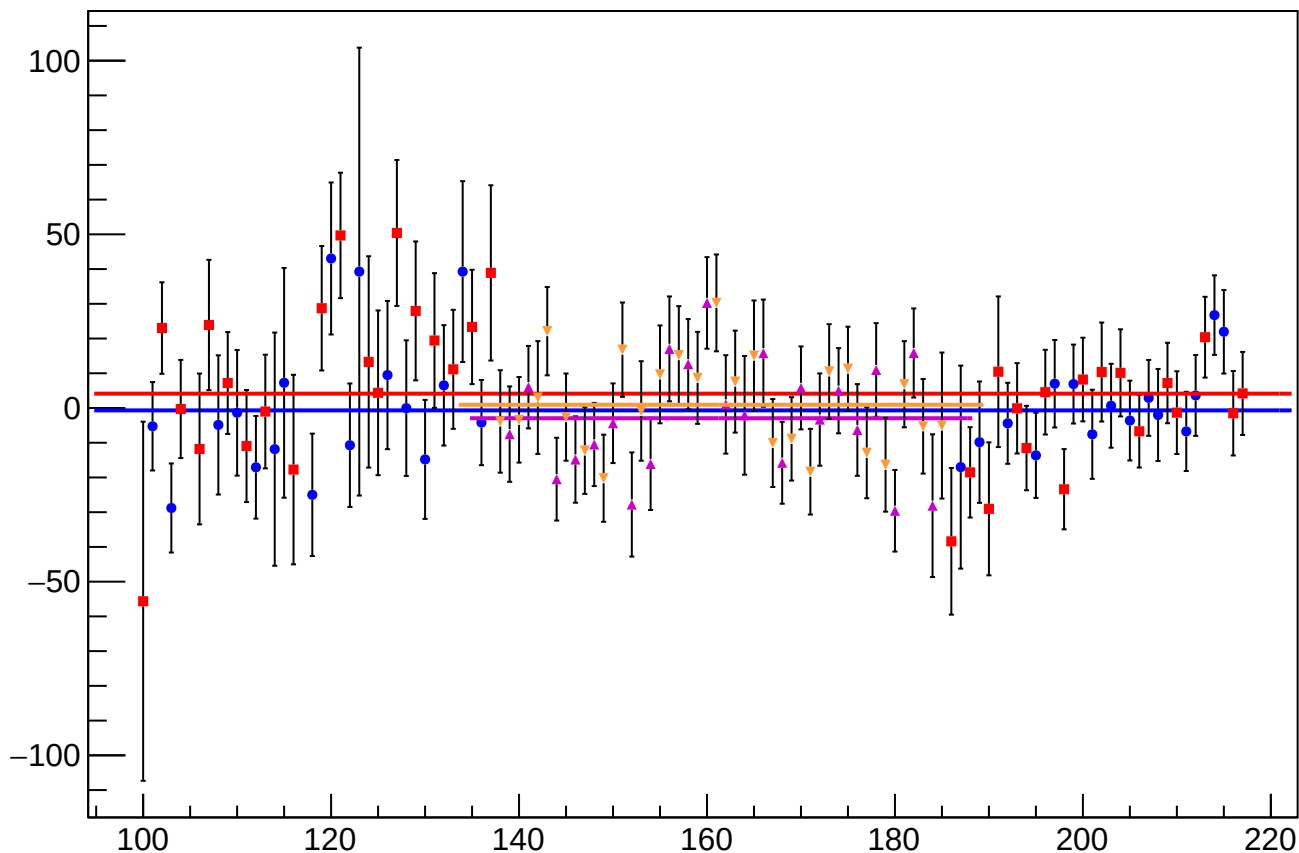
Right: 170.767 $\pm$ 0.021 χ^2 /NDF: 5071314.0/67

In: 174.147 $\pm$ 0.022 χ^2 /NDF:3841316.7/54

Out: 182.042 $\pm$ 0.022 χ^2 /NDF:5028234.3/60

All: 178.028 $\pm$ 0.016 χ^2 /NDF: 8934134.5/115

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.686 ± 2.588 $\chi^2/\text{NDF}: 29.3/31$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 4.127 ± 2.518 $\chi^2/\text{NDF}: 47.1/35$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

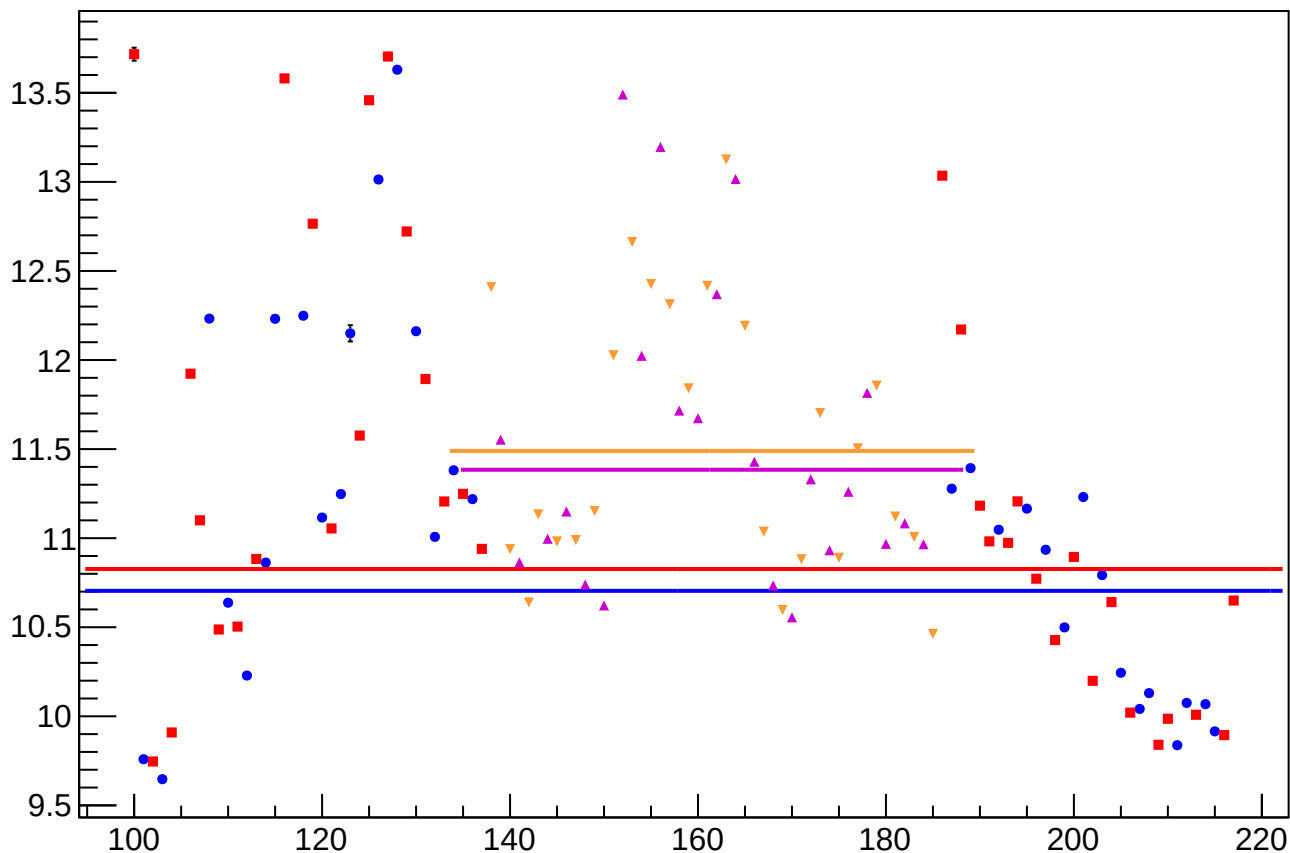
Right: 1.787 ± 1.805 $\chi^2/\text{NDF}: 78.2/67$

In: -1.747 ± 1.883 $\chi^2/\text{NDF}: 60.7/54$

Out: 2.633 ± 1.840 $\chi^2/\text{NDF}: 71.9/60$

All: 0.493 ± 1.316 $\chi^2/\text{NDF}: 135.3/115$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.704 $\pm$ 0.002 χ^2 /NDF: 209681.8/31

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.827 $\pm$ 0.002 χ^2 /NDF: 280938.9/35

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

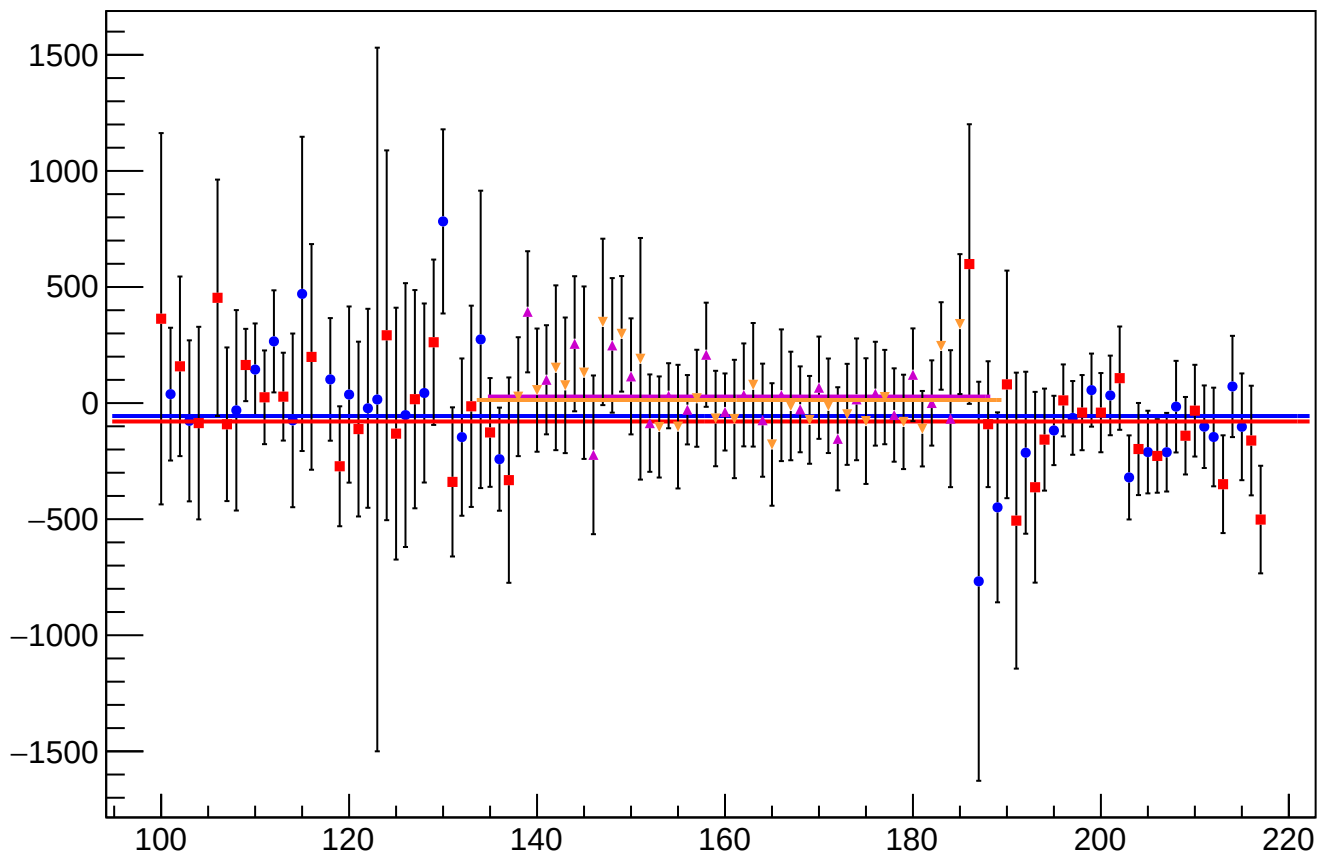
Right: 10.767 $\pm$ 0.001 χ^2 /NDF: 492930.1/67

In: 11.024 $\pm$ 0.001 χ^2 /NDF:424419.0/54

Out: 11.136 $\pm$ 0.001 χ^2 /NDF:477888.3/60

All: 11.081 $\pm$ 0.001 χ^2 /NDF: 905897.3/115

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.734 ± 42.764 χ^2/NDF : 17.0/31

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -79.249 ± 41.789 χ^2/NDF : 18.0/35

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

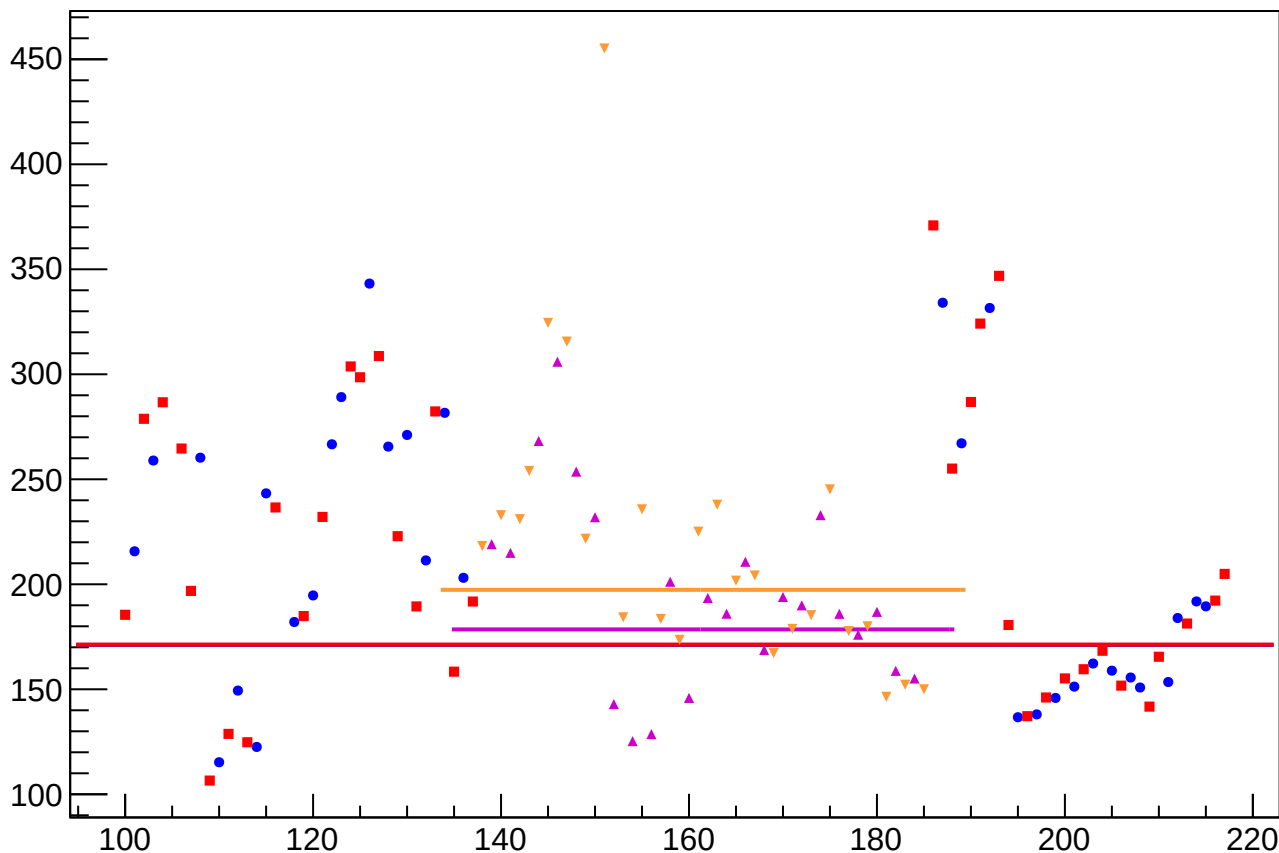
Right: -67.762 ± 29.888 χ^2/NDF : 35.2/67

In: -15.678 ± 30.894 χ^2/NDF : 25.5/54

Out: -39.014 ± 31.422 χ^2/NDF : 28.0/60

All: -27.149 ± 22.030 χ^2/NDF : 53.8/115

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.144+/-0.030 χ^2/NDF : 2165234.1/31

Left Out: 197.355+/-0.034 χ^2/NDF : 1790824.5/24

Right Out: 171.258+/-0.030 χ^2/NDF : 2897085.8/35

Left In: 178.512+/-0.032 χ^2/NDF : 1642304.1/22

Left: 187.326+/-0.023 χ^2/NDF : 3599509.2/47

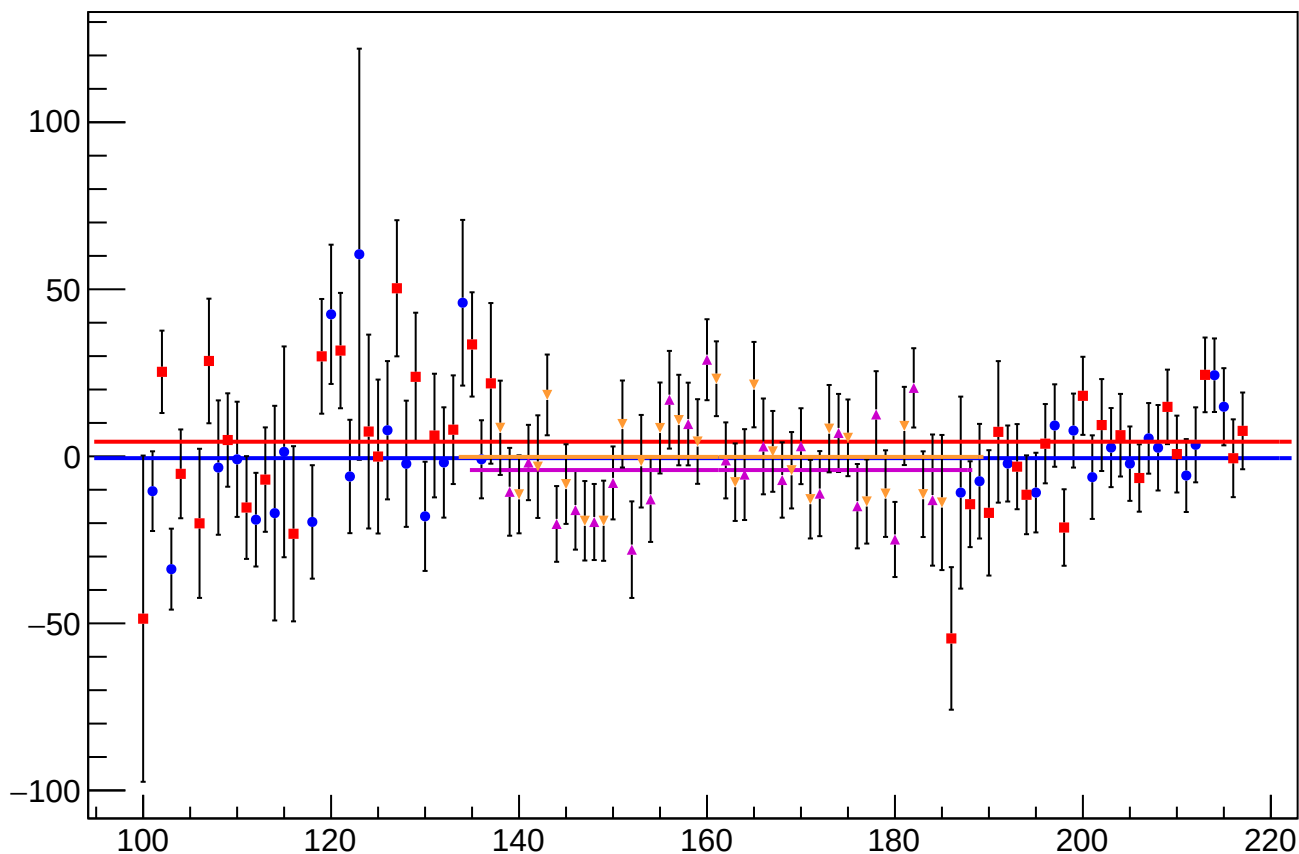
Right: 171.202+/-0.021 χ^2/NDF : 5062327.2/67

In: 174.666+/-0.022 χ^2/NDF : 3835926.1/54

Out: 182.601+/-0.022 χ^2/NDF : 5026902.7/60

All: 178.566+/-0.016 χ^2/NDF : 8927672.6/115

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.543 $\pm$ 2.496 χ^2/NDF : 31.8/31

Left Out: -0.170 $\pm$ 2.520 χ^2/NDF : 24.4/24

Right Out: 4.376 $\pm$ 2.434 χ^2/NDF : 51.0/35

Left In: -4.107 $\pm$ 2.577 χ^2/NDF : 31.5/22

Left: -2.095 $\pm$ 1.802 χ^2/NDF : 57.1/47

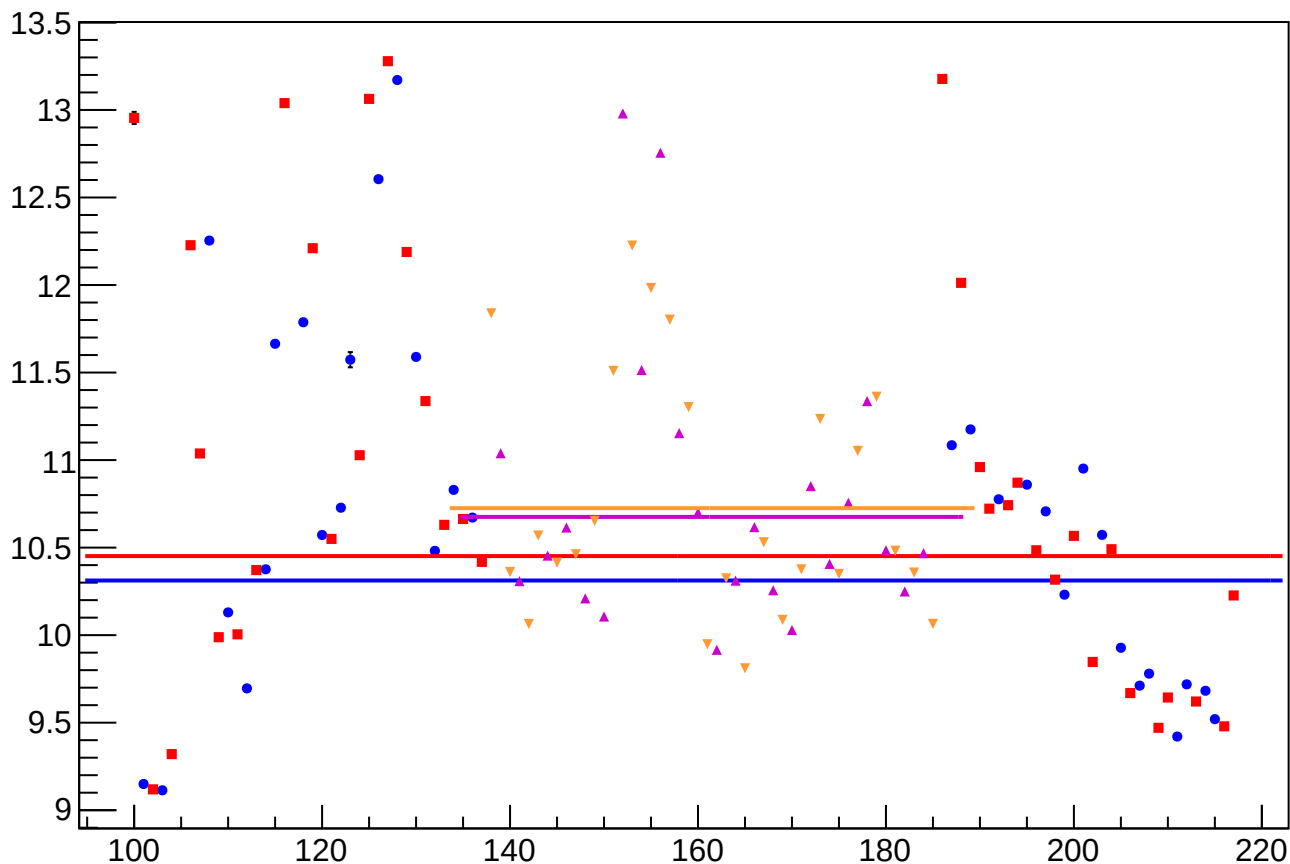
Right: 1.978 $\pm$ 1.742 χ^2/NDF : 84.8/67

In: -2.268 $\pm$ 1.793 χ^2/NDF : 64.3/54

Out: 2.182 $\pm$ 1.751 χ^2/NDF : 77.1/60

All: 0.010 $\pm$ 1.253 χ^2/NDF : 144.6/115

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.312 ± 0.002 $\chi^2/\text{NDF}: 237514.7/31$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.452 ± 0.002 $\chi^2/\text{NDF}: 323797.2/35$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

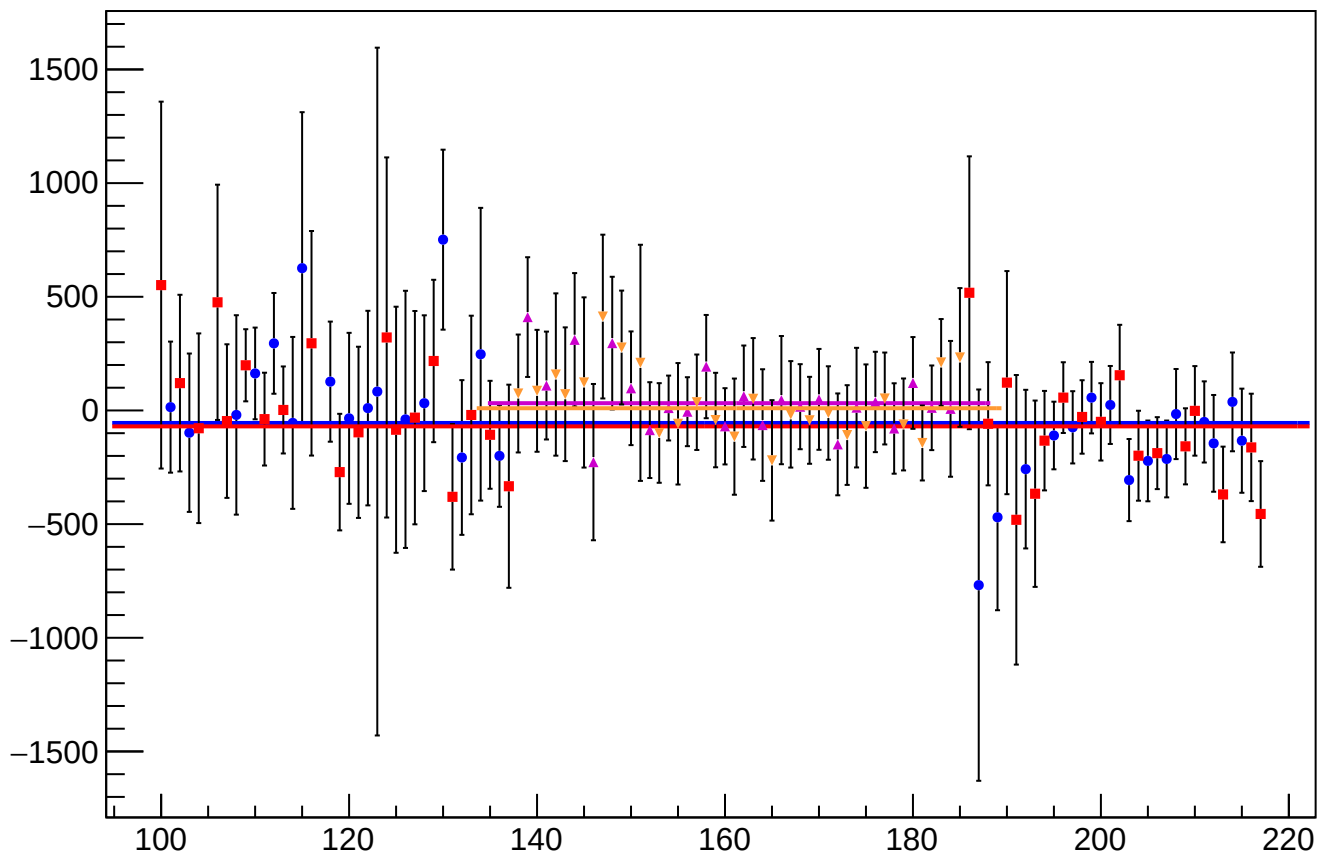
Right: 10.384 ± 0.001 $\chi^2/\text{NDF}: 564512.3/67$

In: 10.488 ± 0.001 $\chi^2/\text{NDF}: 403961.0/54$

Out: 10.584 ± 0.001 $\chi^2/\text{NDF}: 468190.0/60$

All: 10.537 ± 0.001 $\chi^2/\text{NDF}: 875072.9/115$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.022 ± 42.824 $\chi^2/\text{NDF}: 17.4/31$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -70.101 ± 41.910 $\chi^2/\text{NDF}: 18.6/35$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

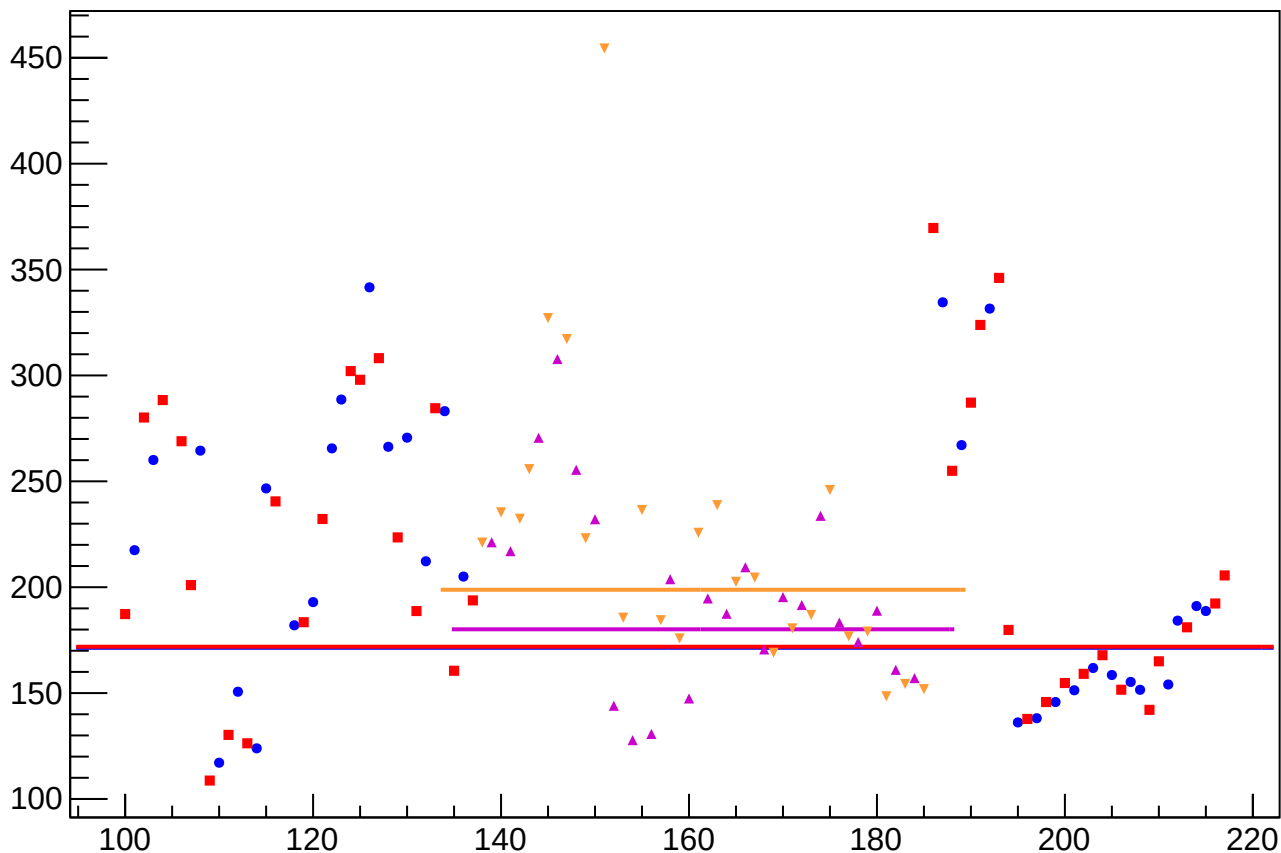
Right: -62.724 ± 29.953 $\chi^2/\text{NDF}: 36.1/67$

In: -13.708 ± 31.035 $\chi^2/\text{NDF}: 26.5/54$

Out: -35.520 ± 31.564 $\chi^2/\text{NDF}: 27.7/60$

All: -24.429 ± 22.129 $\chi^2/\text{NDF}: 54.5/115$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.394 $\pm$ 0.030 χ^2/NDF : 2160600.5/31

Left Out: 198.800 $\pm$ 0.034 χ^2/NDF :1763119.1/24

Right Out: 171.885 $\pm$ 0.030 χ^2/NDF : 2855014.2/35

Left In: 180.123 $\pm$ 0.032 χ^2/NDF :1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2/NDF : 3518071.9/47

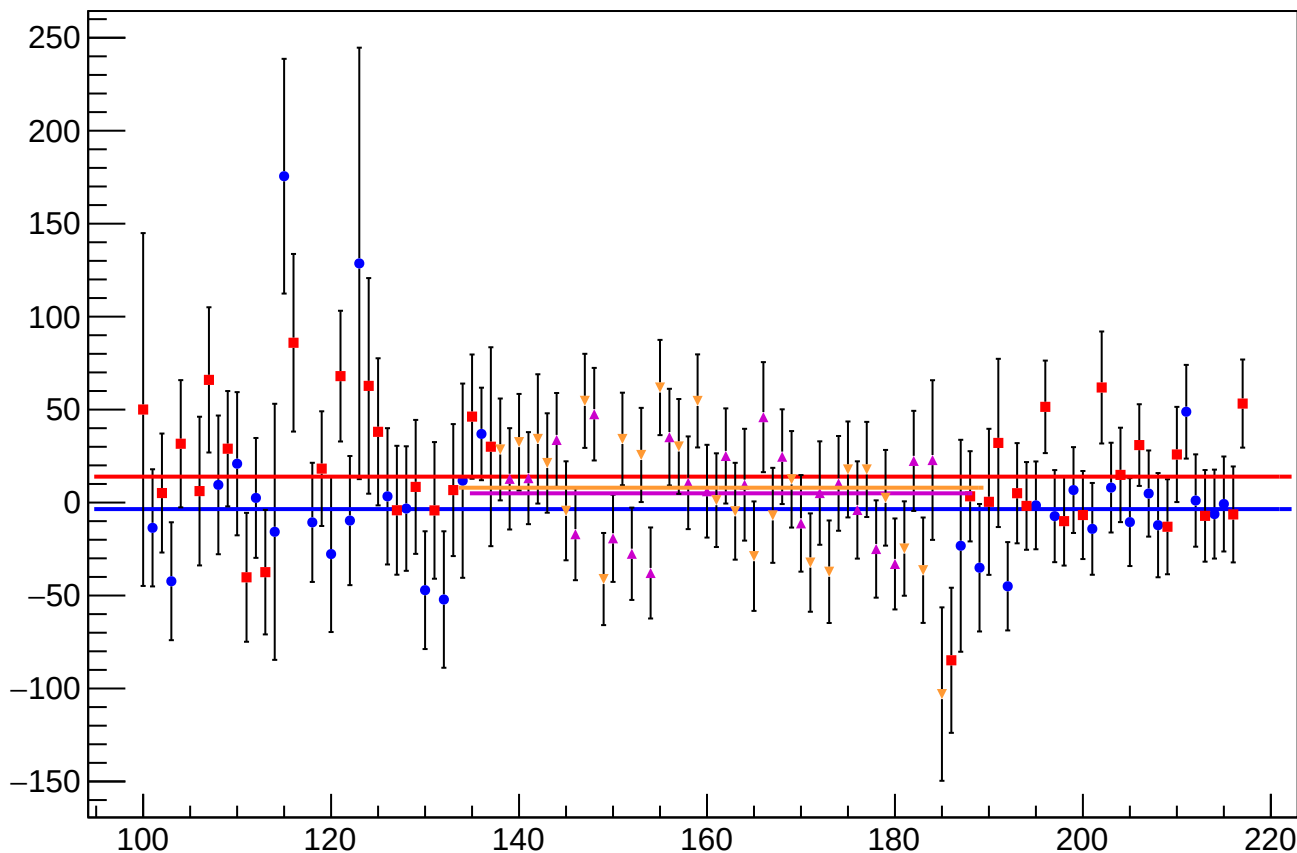
Right: 171.645 $\pm$ 0.021 χ^2/NDF : 5015748.9/67

In: 175.539 $\pm$ 0.022 χ^2/NDF :3793898.3/54

Out: 183.534 $\pm$ 0.022 χ^2/NDF :4975138.0/60

All: 179.469 $\pm$ 0.016 χ^2/NDF : 8834279.2/115

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.513 ± 5.299 χ^2/NDF : 27.7/31

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.944 ± 5.121 χ^2/NDF : 34.7/35

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

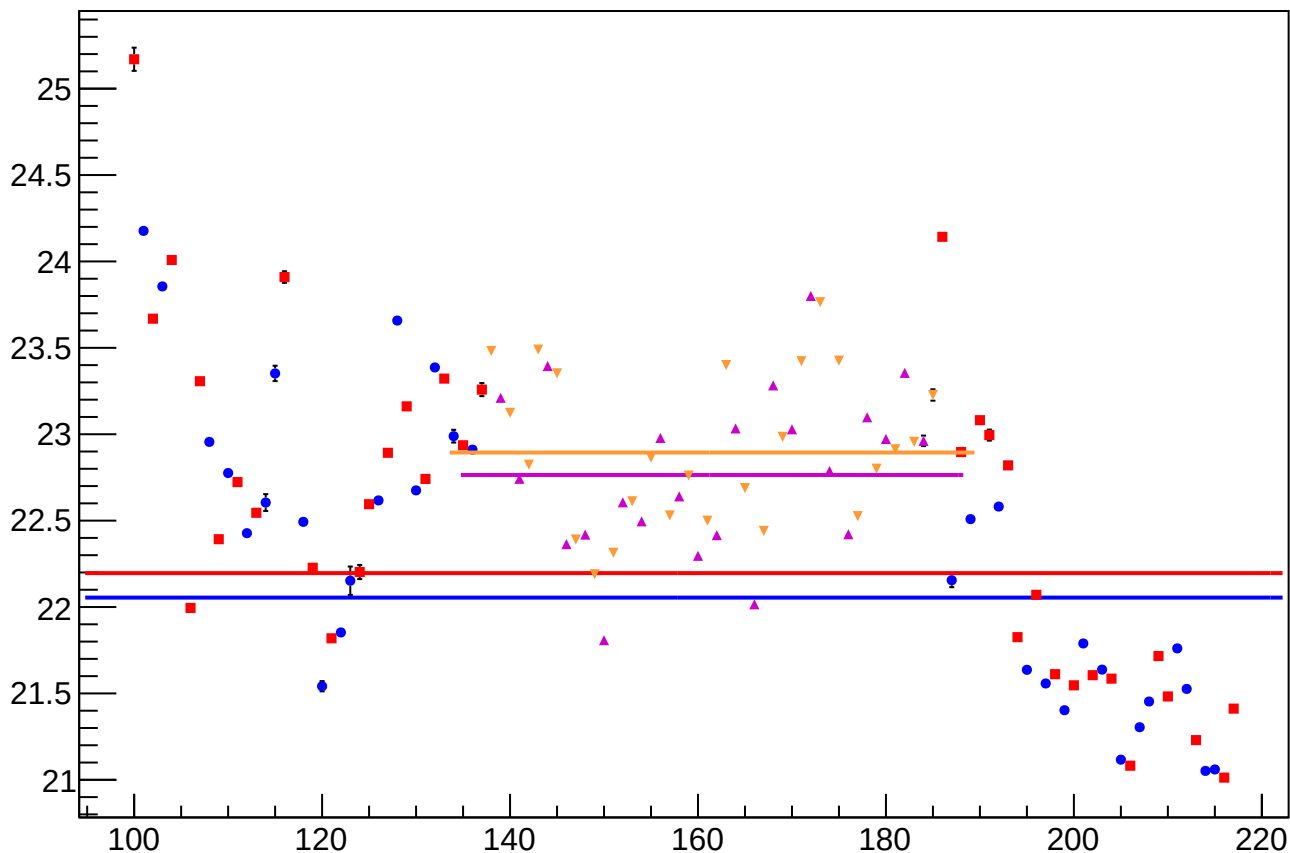
Right: 5.514 ± 3.683 χ^2/NDF : 68.0/67

In: 0.615 ± 3.797 χ^2/NDF : 49.4/54

Out: 11.084 ± 3.692 χ^2/NDF : 72.8/60

All: 5.997 ± 2.647 χ^2/NDF : 126.1/115

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.055+/-0.004 χ^2/NDF : 49928.4/31

Left Out: 22.894+/-0.004 χ^2/NDF :13070.5/24

Right Out: 22.196+/-0.004 χ^2/NDF : 55116.0/35

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

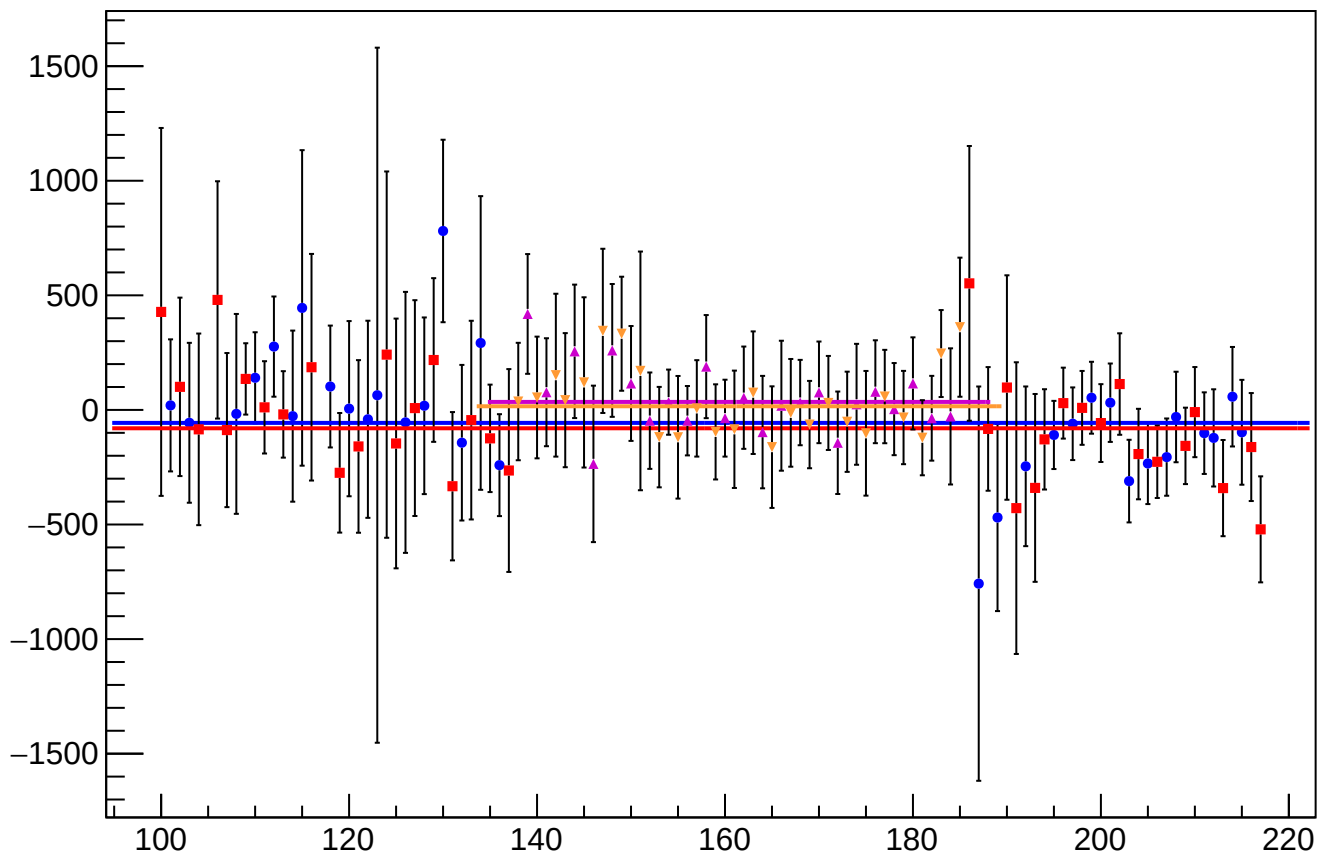
Right: 22.128+/-0.003 χ^2/NDF : 105785.0/67

In: 22.400+/-0.003 χ^2/NDF :82046.0/54

Out: 22.531+/-0.003 χ^2/NDF :86018.2/60

All: 22.468+/-0.002 χ^2/NDF : 169300.2/115

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.601 ± 42.705 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -80.154 ± 41.735 $\chi^2/\text{NDF}: 17.0/35$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

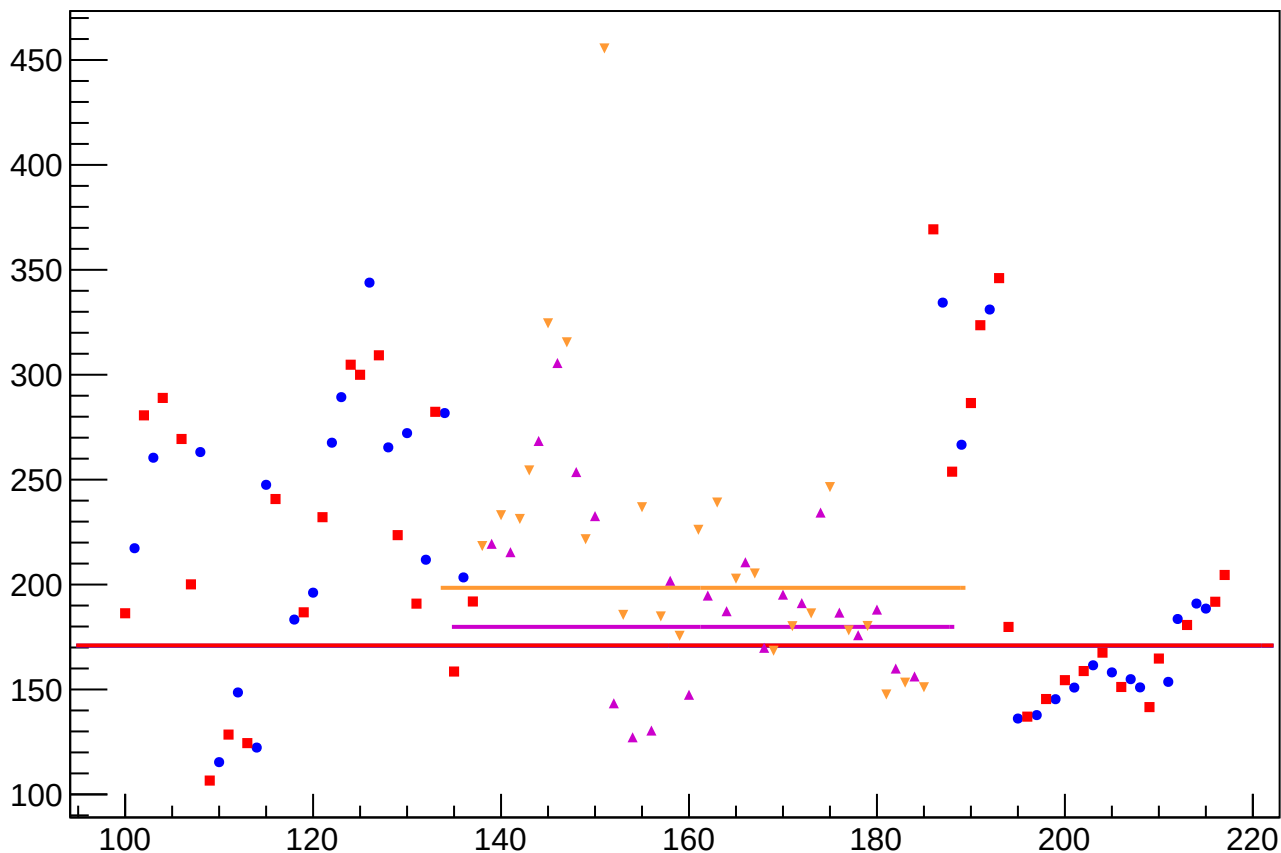
Right: -68.648 ± 29.848 $\chi^2/\text{NDF}: 34.1/67$

In: -13.204 ± 30.967 $\chi^2/\text{NDF}: 25.7/54$

Out: -38.699 ± 31.466 $\chi^2/\text{NDF}: 27.8/60$

All: -25.748 ± 22.071 $\chi^2/\text{NDF}: 53.8/115$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.844 $\pm$ 0.030 χ^2 /NDF: 2192004.9/31

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 170.987 $\pm$ 0.030 χ^2 /NDF: 2924061.6/35

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

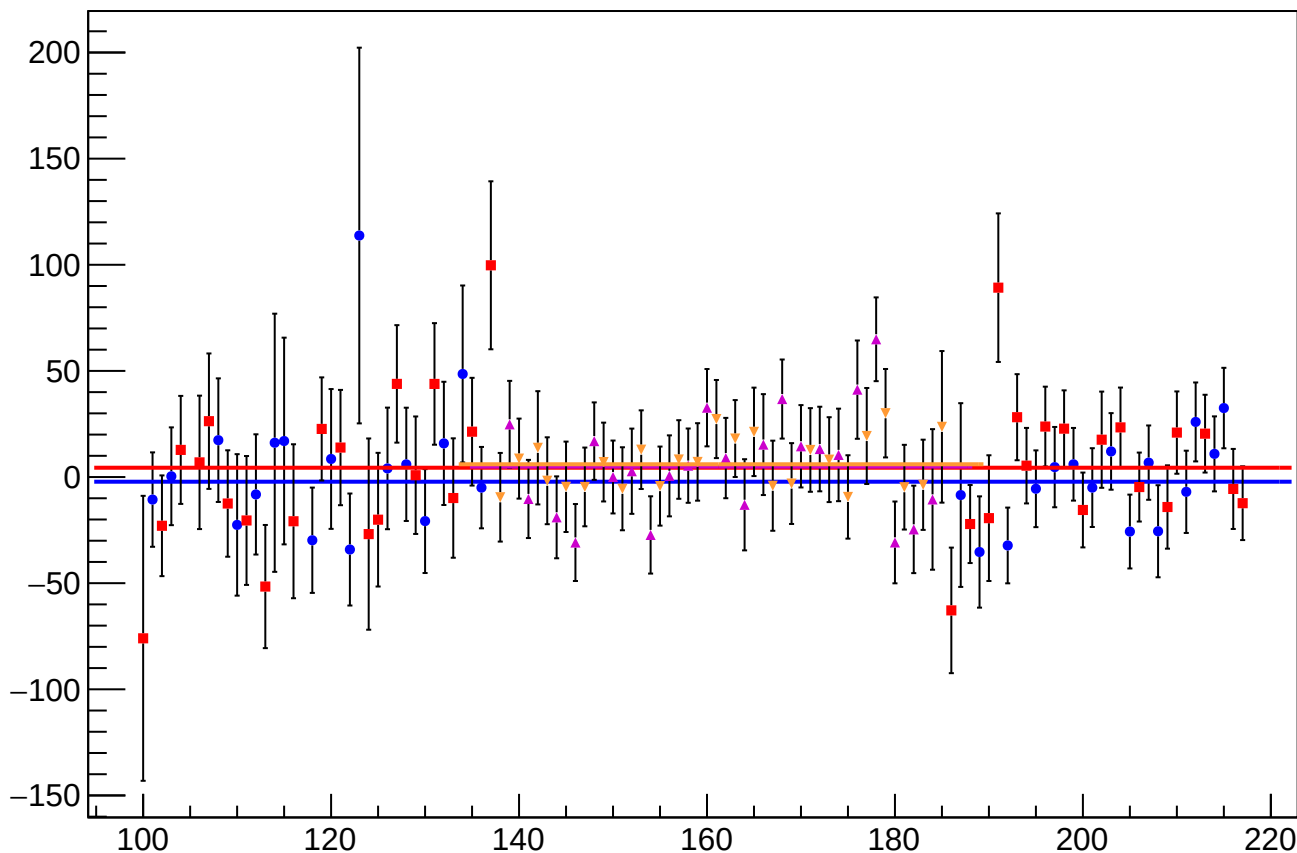
Right: 170.917 $\pm$ 0.021 χ^2 /NDF: 5116078.0/67

In: 175.109 $\pm$ 0.022 χ^2 /NDF:3822916.4/54

Out: 182.839 $\pm$ 0.022 χ^2 /NDF:5059234.2/60

All: 178.912 $\pm$ 0.016 χ^2 /NDF: 8943460.5/115

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.201 ± 4.035 χ^2/NDF : 23.4/31

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 4.388 ± 3.901 χ^2/NDF : 44.7/35

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

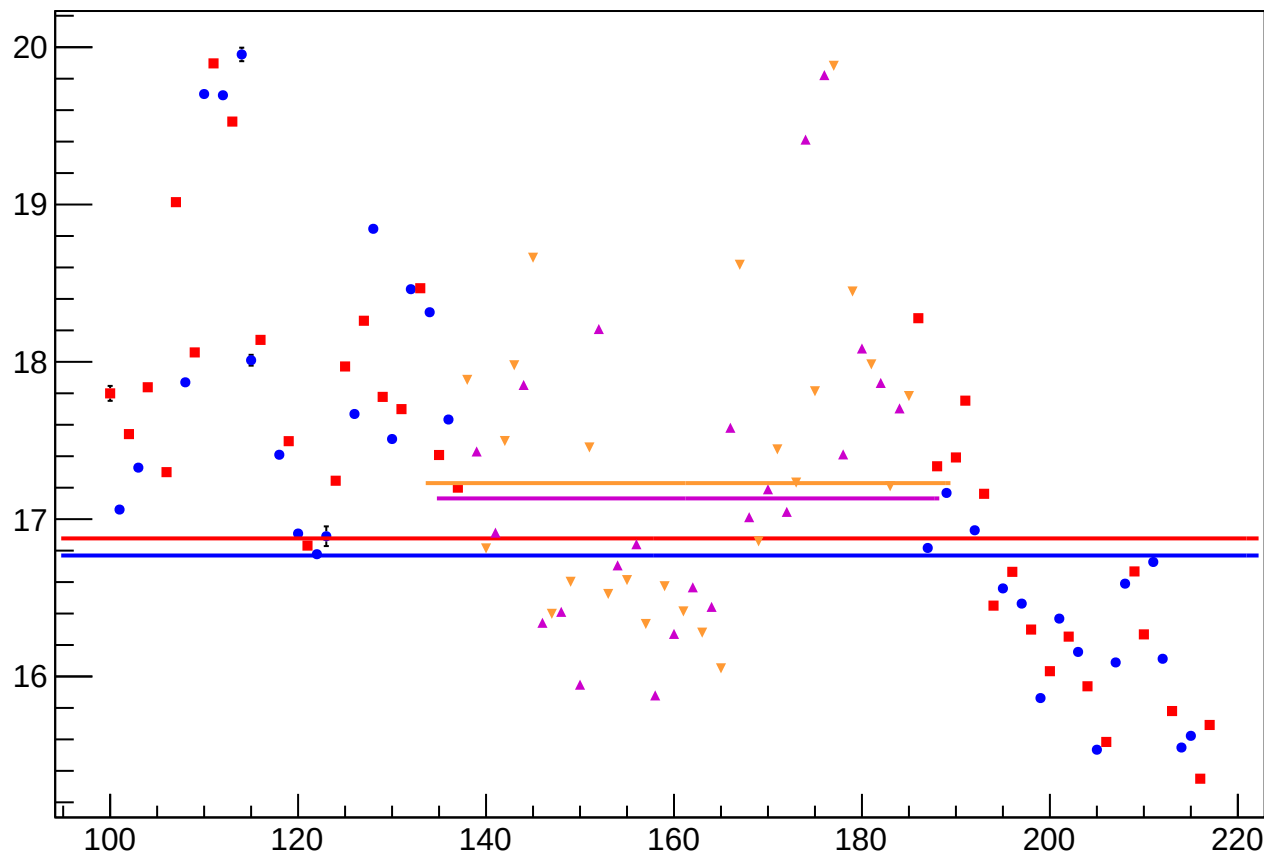
Right: 1.204 ± 2.805 χ^2/NDF : 69.5/67

In: 1.308 ± 2.878 χ^2/NDF : 59.8/54

Out: 5.180 ± 2.799 χ^2/NDF : 52.9/60

All: 3.298 ± 2.007 χ^2/NDF : 113.6/115

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.769 $\pm$ 0.003 χ^2/NDF : 121779.8/31

Left Out: 17.229 $\pm$ 0.003 χ^2/NDF :98624.7/24

Right Out: 16.878 $\pm$ 0.003 χ^2/NDF : 144546.3/35

Left In: 17.132 $\pm$ 0.003 χ^2/NDF :103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2/NDF : 203195.4/47

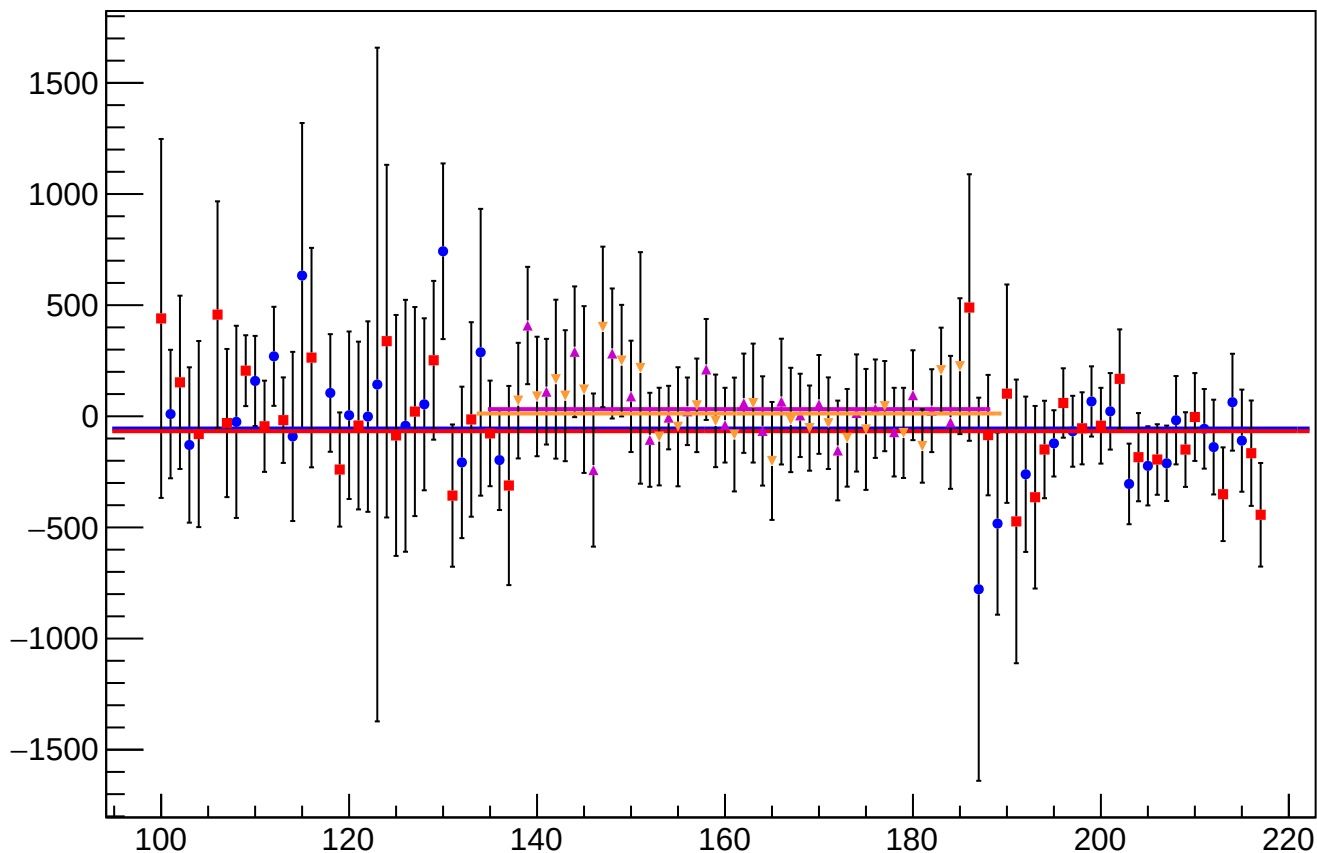
Right: 16.825 $\pm$ 0.002 χ^2/NDF : 267076.1/67

In: 16.947 $\pm$ 0.002 χ^2/NDF :233722.5/54

Out: 17.048 $\pm$ 0.002 χ^2/NDF :251052.1/60

All: 16.999 $\pm$ 0.001 χ^2/NDF : 486042.0/115

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.088+/-42.952 χ^2/NDF : 17.1/31

Left Out: 12.474+/-48.086 χ^2/NDF :6.8/24

Right Out: -67.055+/-42.022 χ^2/NDF : 17.7/35

Left In: 32.159+/-45.131 χ^2/NDF :6.9/22

Left: 22.940+/-32.908 χ^2/NDF : 13.9/47

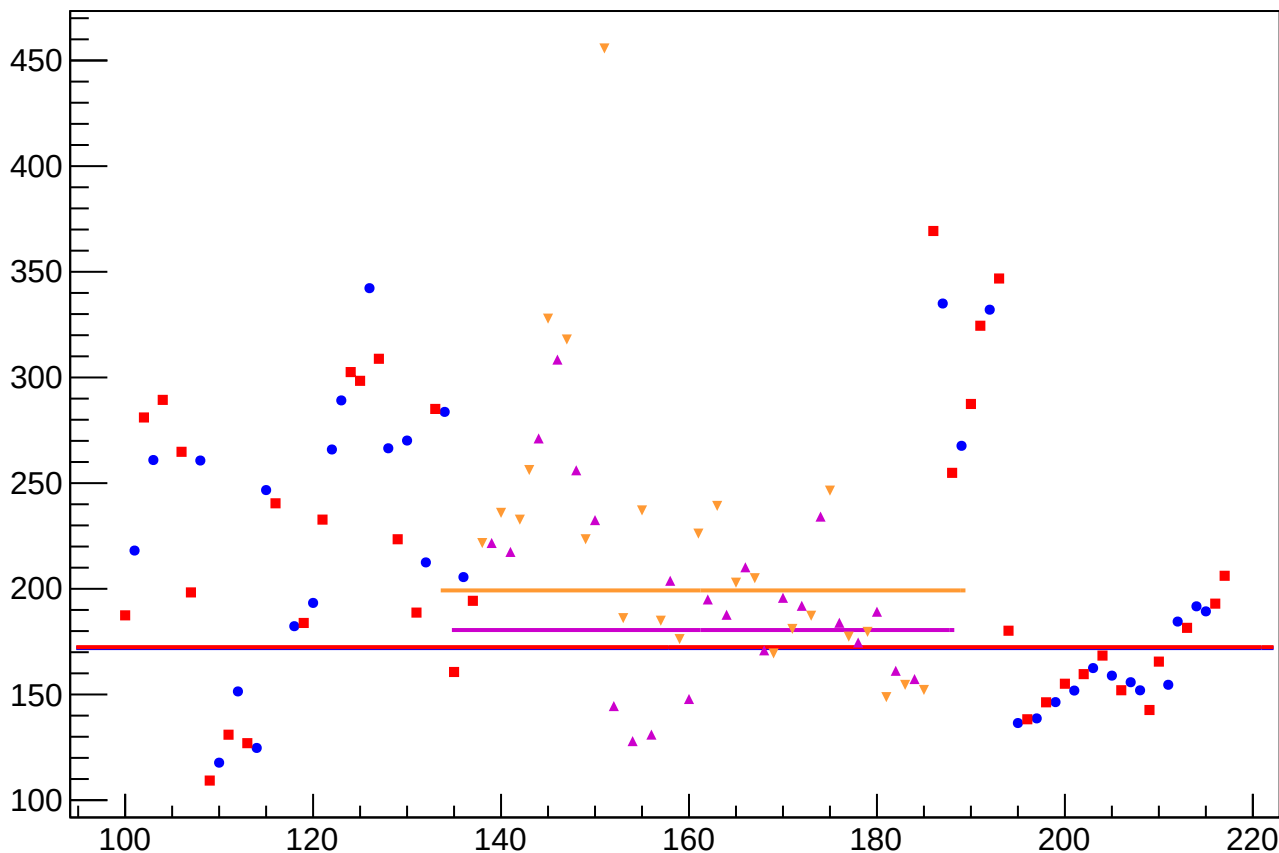
Right: -61.203+/-30.038 χ^2/NDF : 34.9/67

In: -13.621+/-31.113 χ^2/NDF :26.0/54

Out: -32.618+/-31.642 χ^2/NDF :26.1/60

All: -22.960+/-22.185 χ^2/NDF : 52.3/115

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.954 $\pm$ 0.030 χ^2 /NDF: 2142177.1/31

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 172.405 $\pm$ 0.030 χ^2 /NDF: 2830426.0/35

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

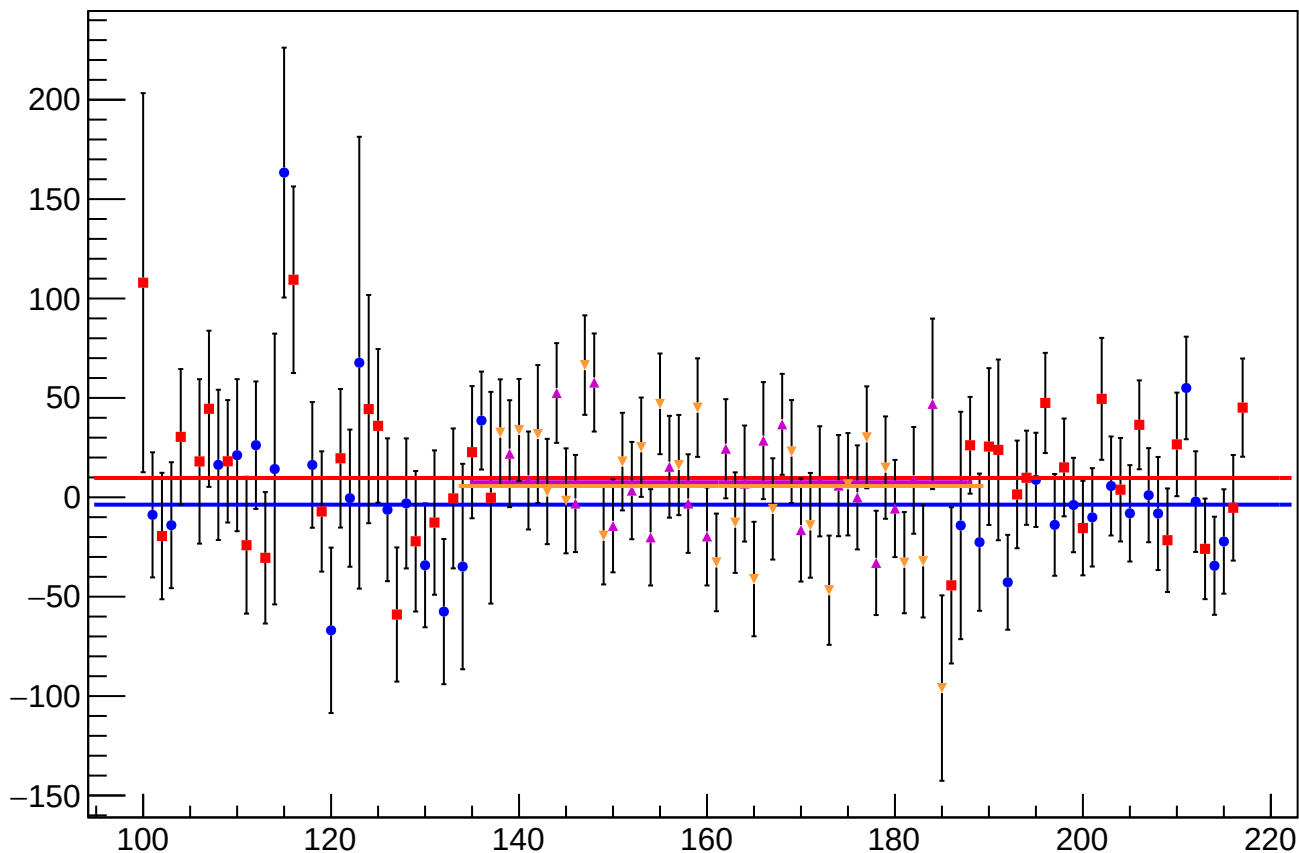
Right: 172.184 $\pm$ 0.021 χ^2 /NDF: 4972715.6/67

In: 176.013 $\pm$ 0.022 χ^2 /NDF:3773536.9/54

Out: 184.025 $\pm$ 0.022 χ^2 /NDF:4947727.1/60

All: 179.951 $\pm$ 0.016 χ^2 /NDF: 8786463.8/115

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.704 ± 5.350 $\chi^2/\text{NDF}: 29.4/31$

Left Out: 5.673 ± 5.278 $\chi^2/\text{NDF}: 36.4/24$

Right Out: 9.723 ± 5.160 $\chi^2/\text{NDF}: 32.4/35$

Left In: 7.594 ± 5.402 $\chi^2/\text{NDF}: 18.3/22$

Left: 6.611 ± 3.775 $\chi^2/\text{NDF}: 54.8/47$

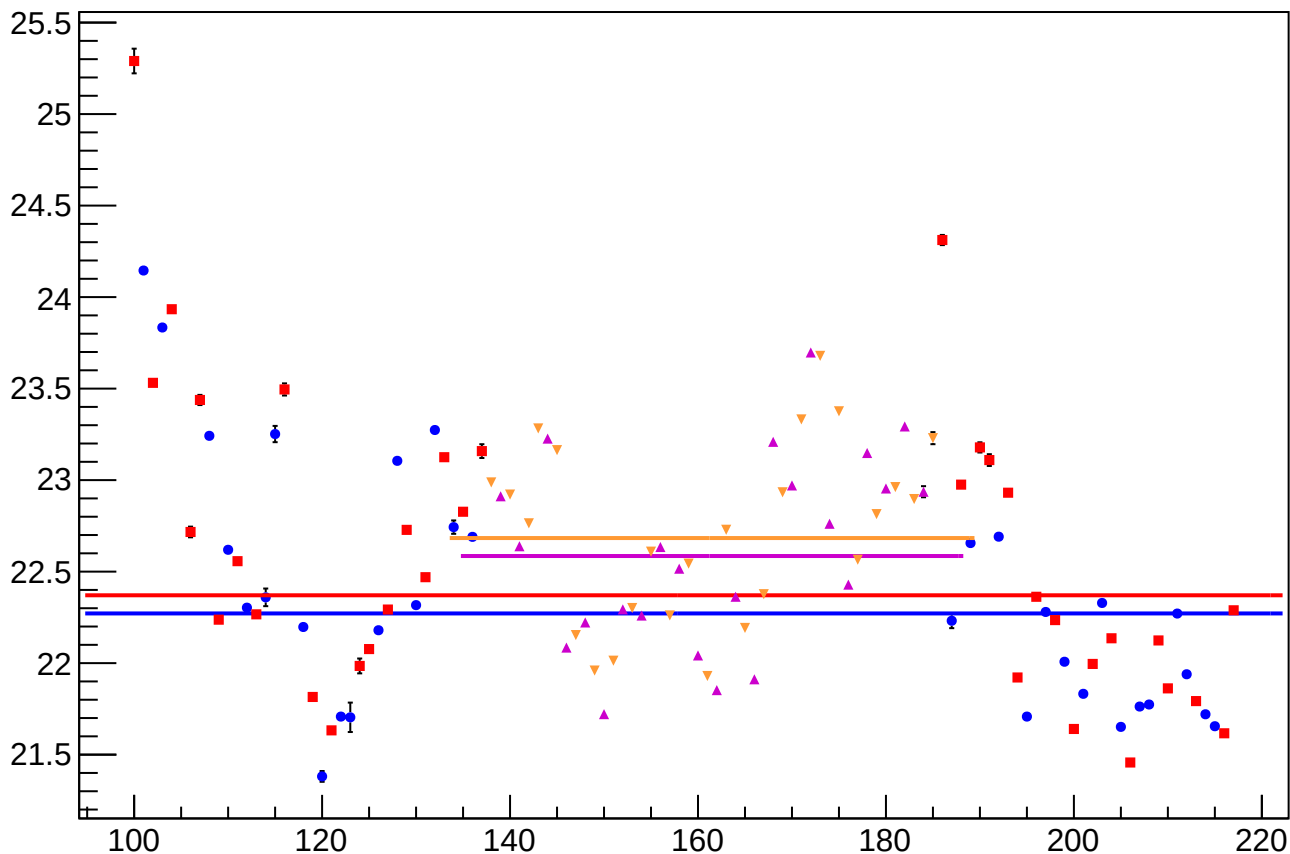
Right: 3.252 ± 3.714 $\chi^2/\text{NDF}: 65.1/67$

In: 1.890 ± 3.801 $\chi^2/\text{NDF}: 49.9/54$

Out: 7.744 ± 3.690 $\chi^2/\text{NDF}: 69.2/60$

All: 4.904 ± 2.648 $\chi^2/\text{NDF}: 120.3/115$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Left: 22.635 ± 0.003 $\chi^2/\text{NDF}: 34743.7/47$

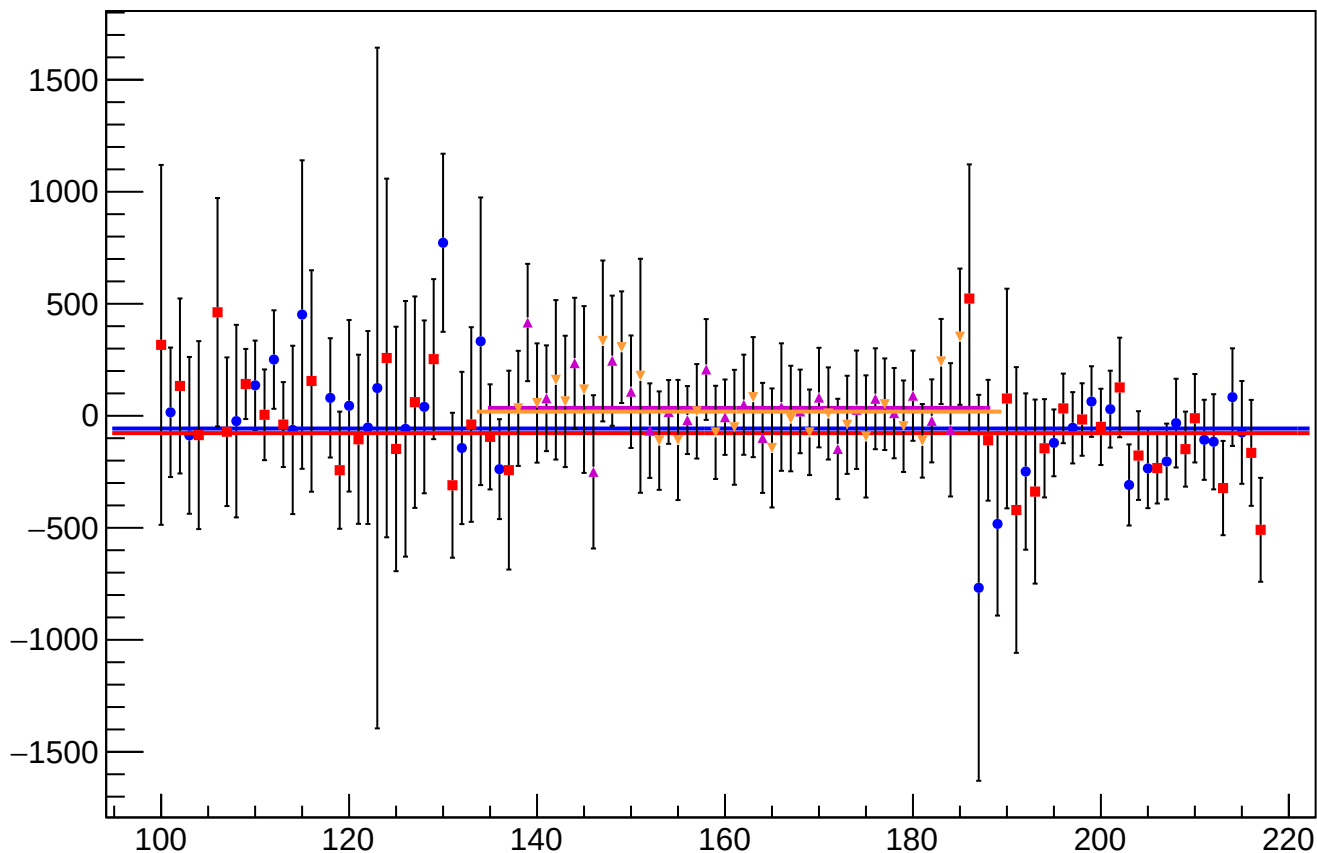
Right: 22.323 ± 0.003 $\chi^2/\text{NDF}: 61323.5/67$

In: 22.427 ± 0.003 $\chi^2/\text{NDF}: 48675.7/54$

Out: 22.524 ± 0.003 $\chi^2/\text{NDF}: 53693.4/60$

All: 22.477 ± 0.002 $\chi^2/\text{NDF}: 103035.2/115$

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.739 ± 42.834 $\chi^2/\text{NDF}: 16.8/31$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -77.161 ± 41.848 $\chi^2/\text{NDF}: 16.1/35$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

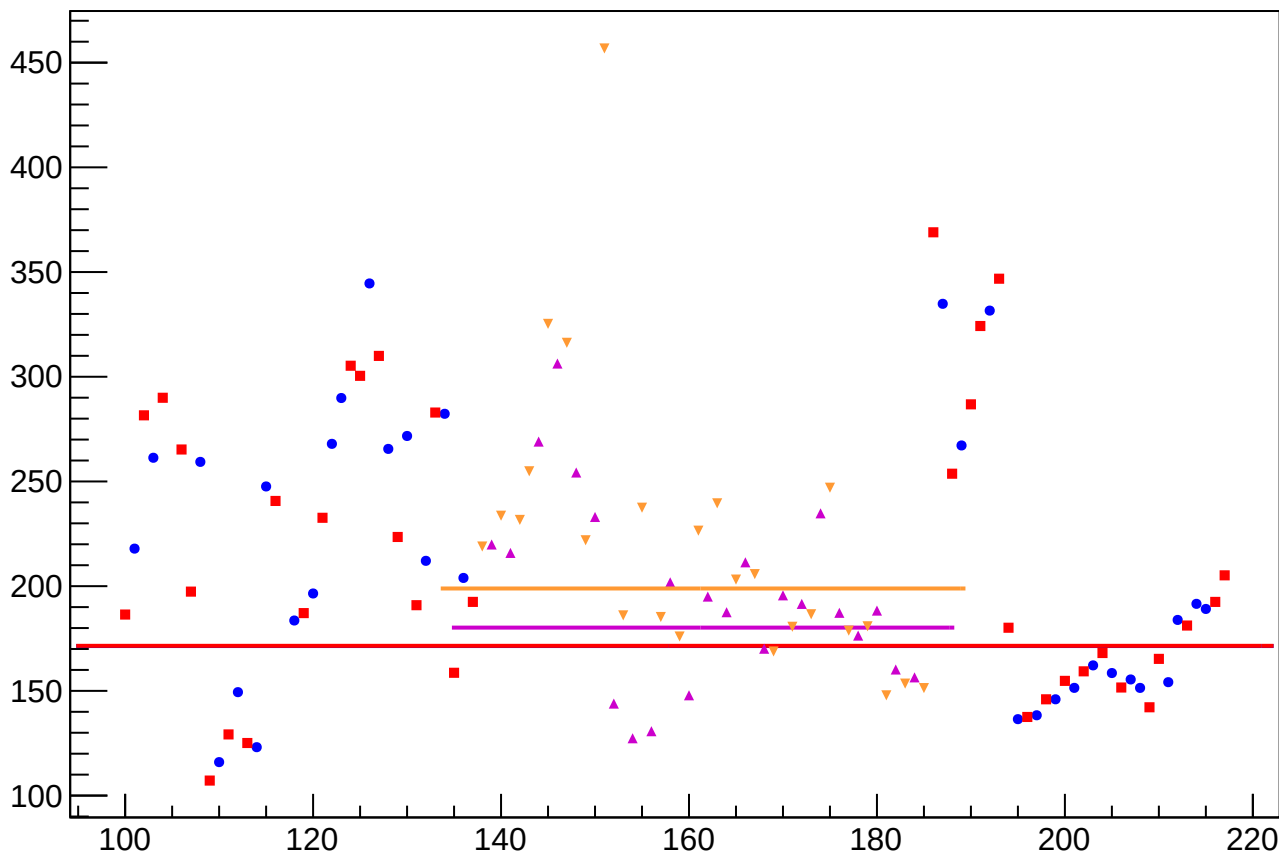
Right: -67.188 ± 29.934 $\chi^2/\text{NDF}: 33.0/67$

In: -13.173 ± 31.046 $\chi^2/\text{NDF}: 25.2/54$

Out: -35.798 ± 31.545 $\chi^2/\text{NDF}: 26.0/60$

All: -24.305 ± 22.127 $\chi^2/\text{NDF}: 51.5/115$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.408 $\pm$ 0.030 χ^2 /NDF: 2172986.4/31

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 171.512 $\pm$ 0.030 χ^2 /NDF: 2898534.4/35

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

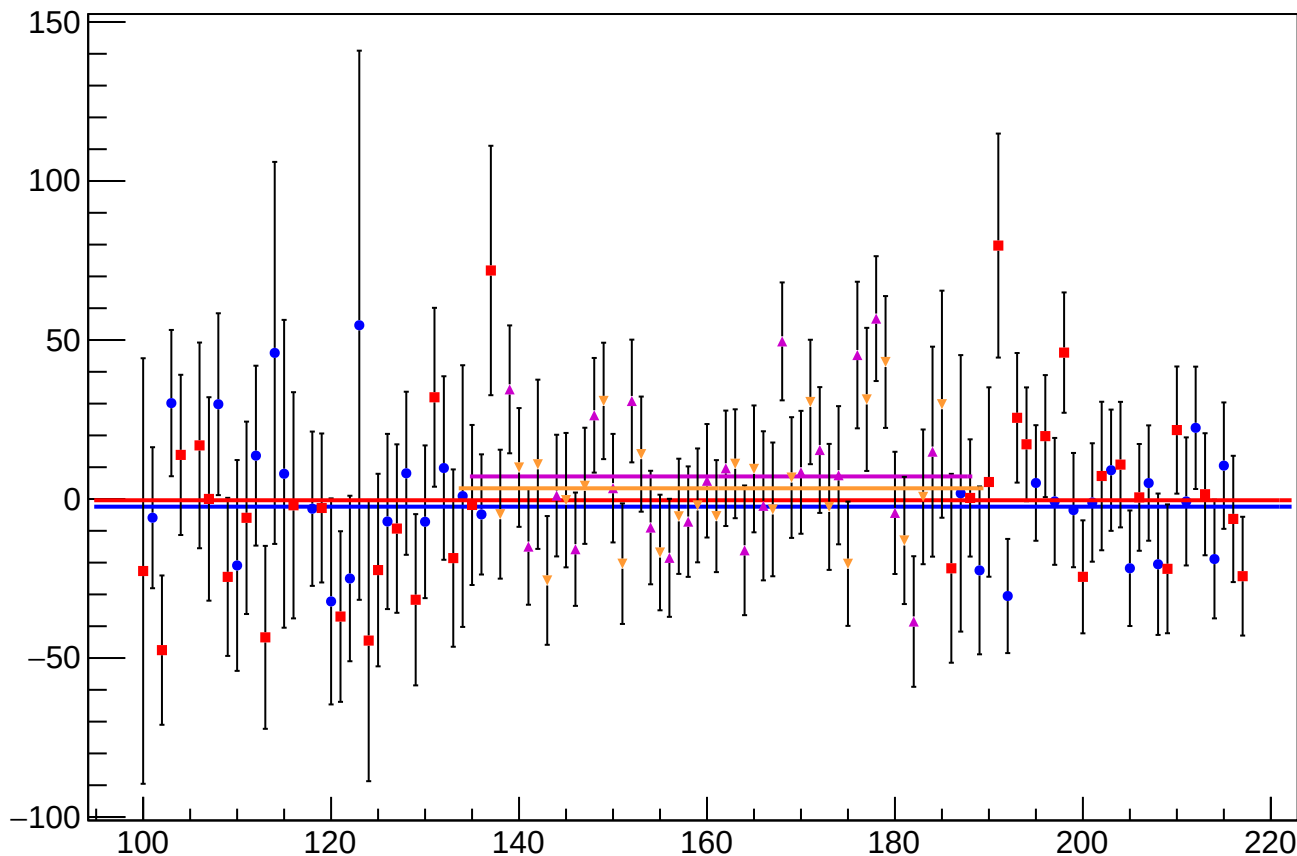
Right: 171.462 $\pm$ 0.021 χ^2 /NDF: 5071526.9/67

In: 175.585 $\pm$ 0.022 χ^2 /NDF:3802049.9/54

Out: 183.334 $\pm$ 0.022 χ^2 /NDF:5030610.6/60

All: 179.398 $\pm$ 0.016 χ^2 /NDF: 8893972.7/115

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.410 ± 4.101 $\chi^2/\text{NDF}: 15.5/31$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: -0.390 ± 3.956 $\chi^2/\text{NDF}: 39.8/35$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

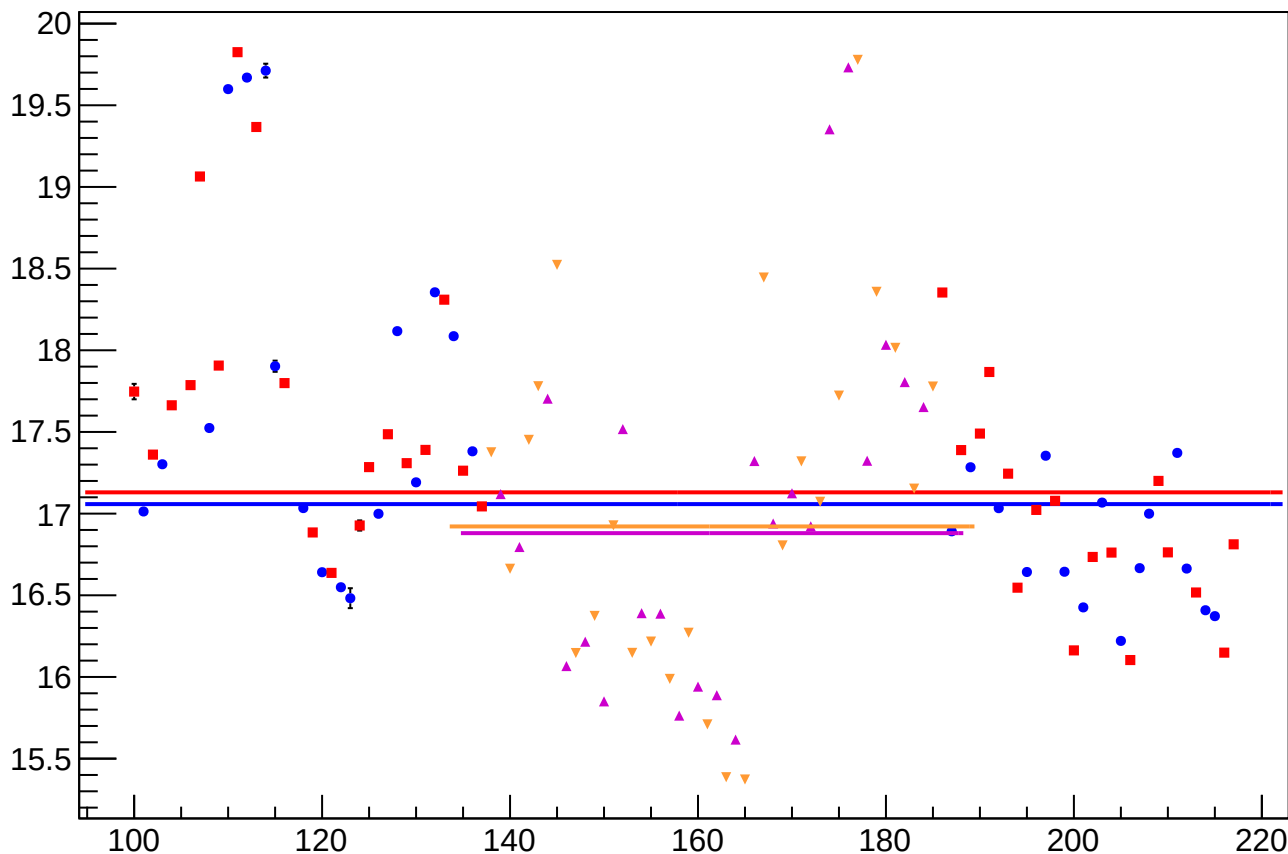
Right: -1.363 ± 2.847 $\chi^2/\text{NDF}: 55.4/67$

In: 2.408 ± 2.881 $\chi^2/\text{NDF}: 50.8/54$

Out: 1.495 ± 2.794 $\chi^2/\text{NDF}: 59.0/60$

All: 1.938 ± 2.006 $\chi^2/\text{NDF}: 109.8/115$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.058 $\pm$ 0.003 χ^2 /NDF: 60984.2/31

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.130 $\pm$ 0.003 χ^2 /NDF: 75386.3/35

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

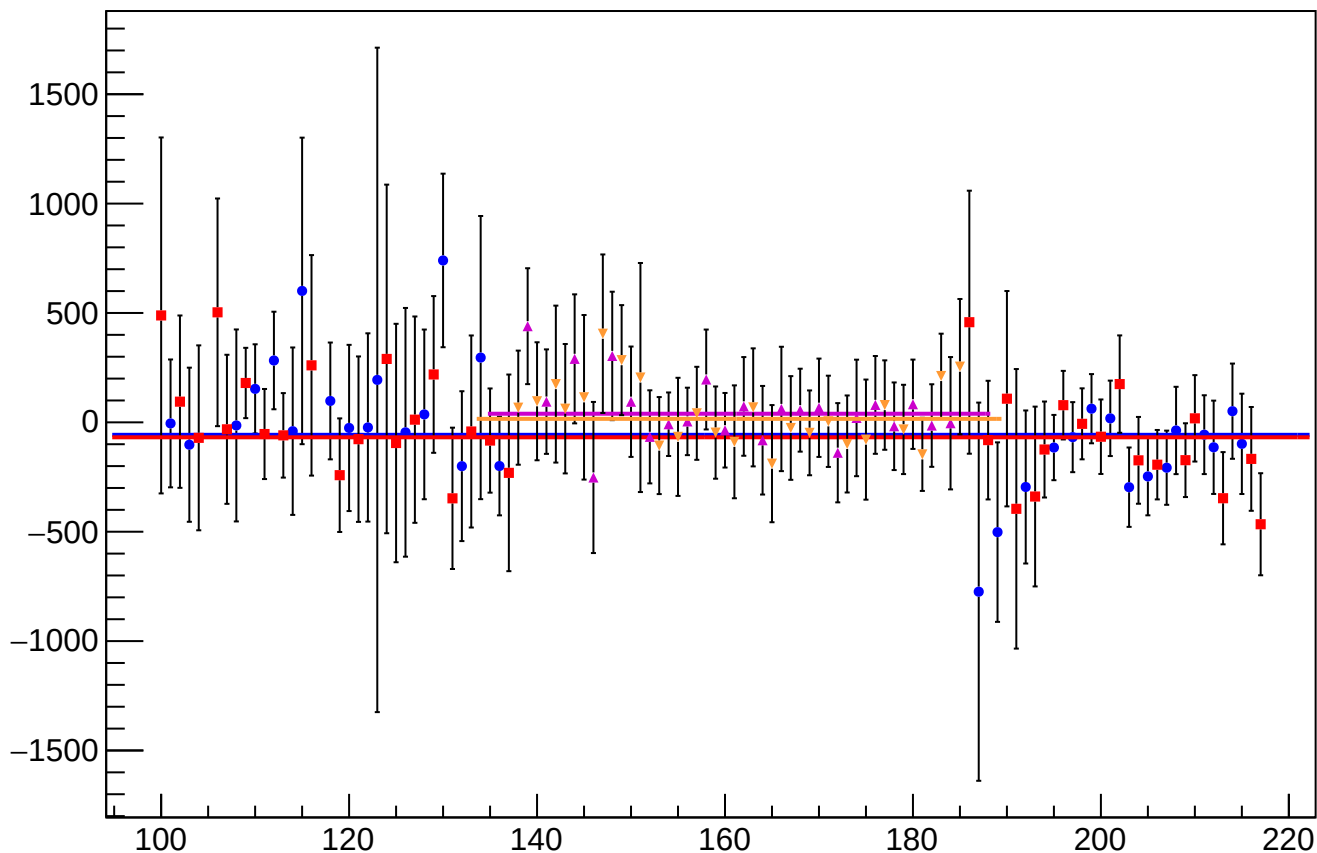
Right: 17.096 $\pm$ 0.002 χ^2 /NDF: 136689.9/67

In: 16.968 $\pm$ 0.002 χ^2 /NDF:184624.2/54

Out: 17.026 $\pm$ 0.002 χ^2 /NDF:217167.9/60

All: 16.998 $\pm$ 0.001 χ^2 /NDF: 402201.9/115

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.024 ± 43.064 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -68.392 ± 42.150 $\chi^2/\text{NDF}: 17.1/35$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

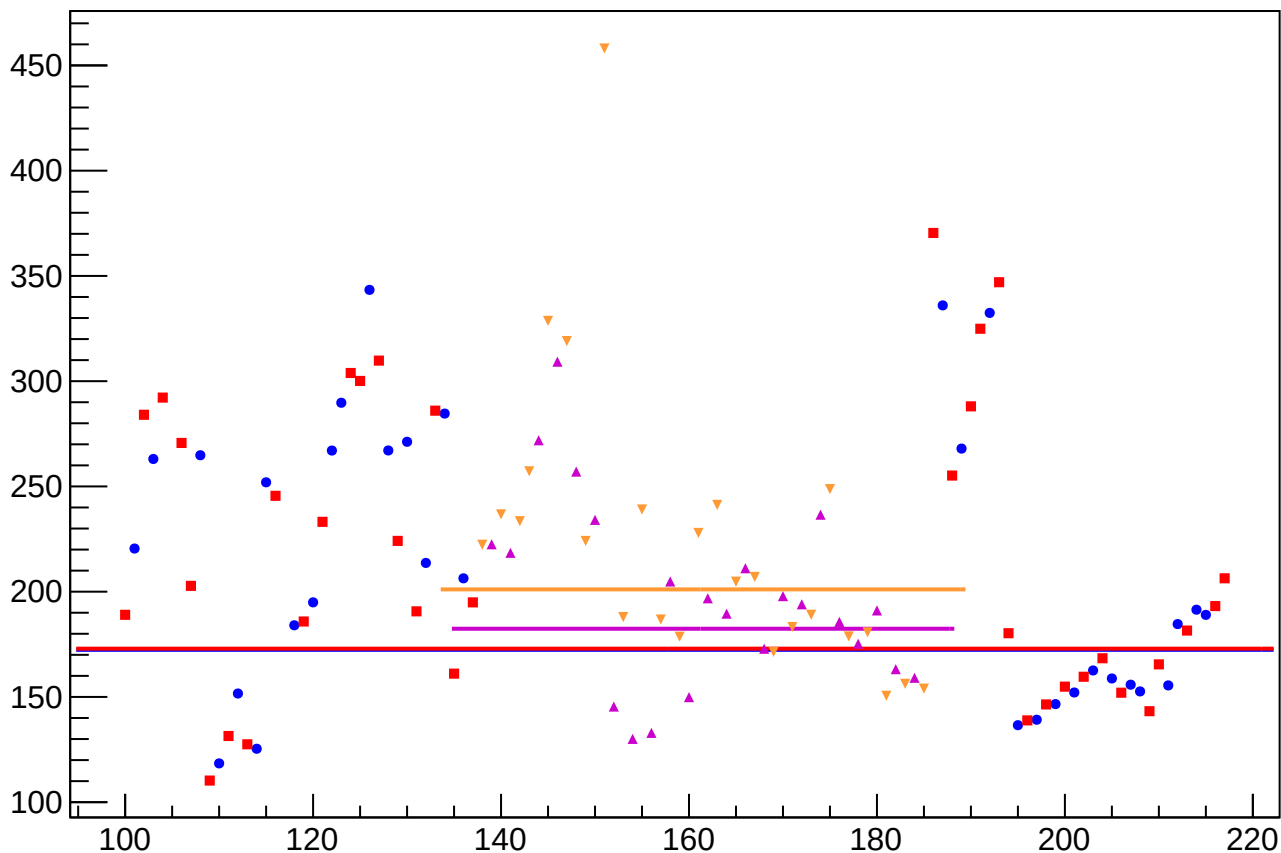
Right: -62.830 ± 30.122 $\chi^2/\text{NDF}: 34.0/67$

In: -11.548 ± 31.299 $\chi^2/\text{NDF}: 26.2/54$

Out: -32.095 ± 31.815 $\chi^2/\text{NDF}: 26.2/60$

All: -21.654 ± 22.312 $\chi^2/\text{NDF}: 52.6/115$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.378 $\pm$ 0.030 χ^2/NDF : 2154551.9/31

Left Out: 201.091 $\pm$ 0.034 χ^2/NDF : 1731069.1/24

Right Out: 172.934 $\pm$ 0.030 χ^2/NDF : 2839145.8/35

Left In: 182.396 $\pm$ 0.032 χ^2/NDF : 1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2/NDF : 3437793.2/47

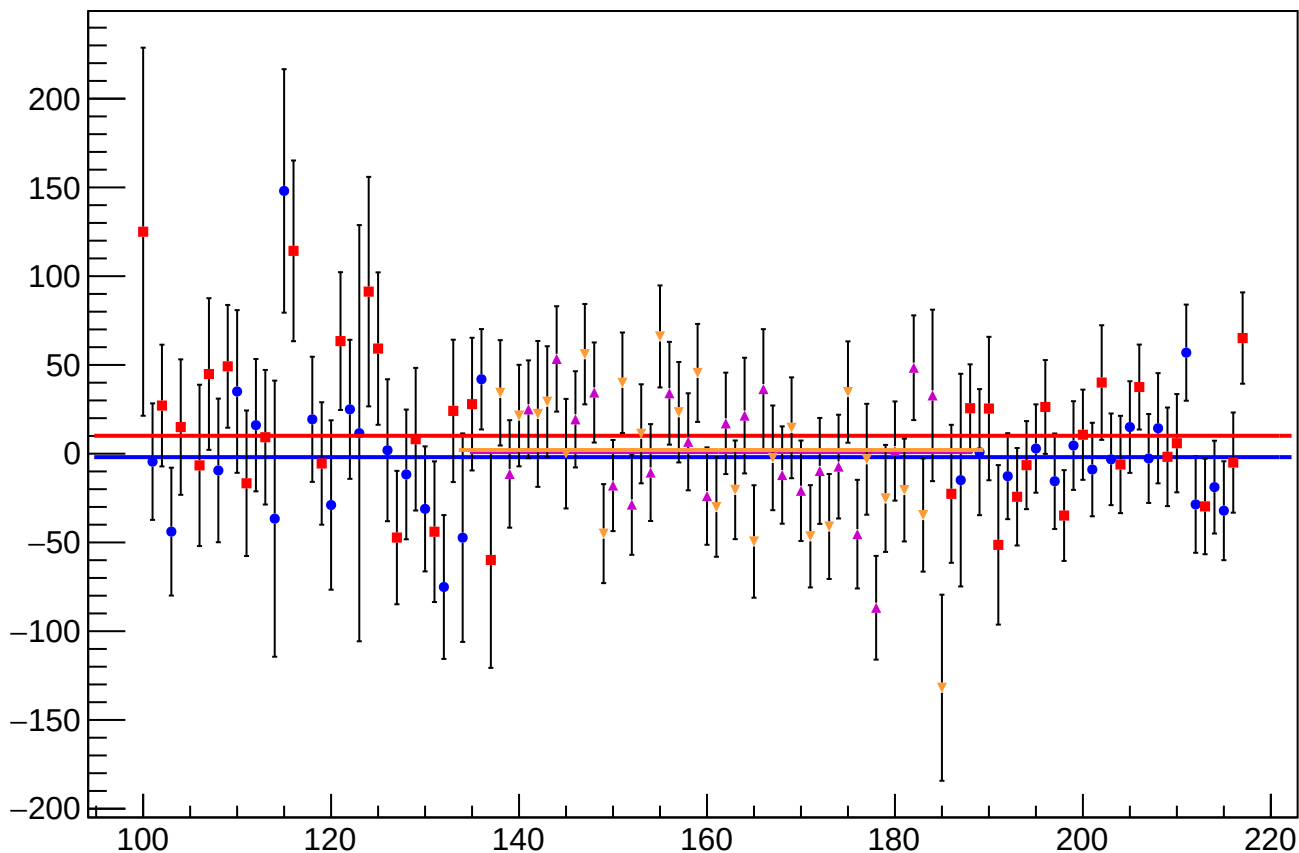
Right: 172.662 $\pm$ 0.021 χ^2/NDF : 4993867.8/67

In: 177.104 $\pm$ 0.022 χ^2/NDF : 3754519.7/54

Out: 185.049 $\pm$ 0.022 χ^2/NDF : 4954237.1/60

All: 181.011 $\pm$ 0.016 χ^2/NDF : 8772134.0/115

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.946 ± 5.764 χ^2/NDF : 24.1/31

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.095 ± 5.531 χ^2/NDF : 37.4/35

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

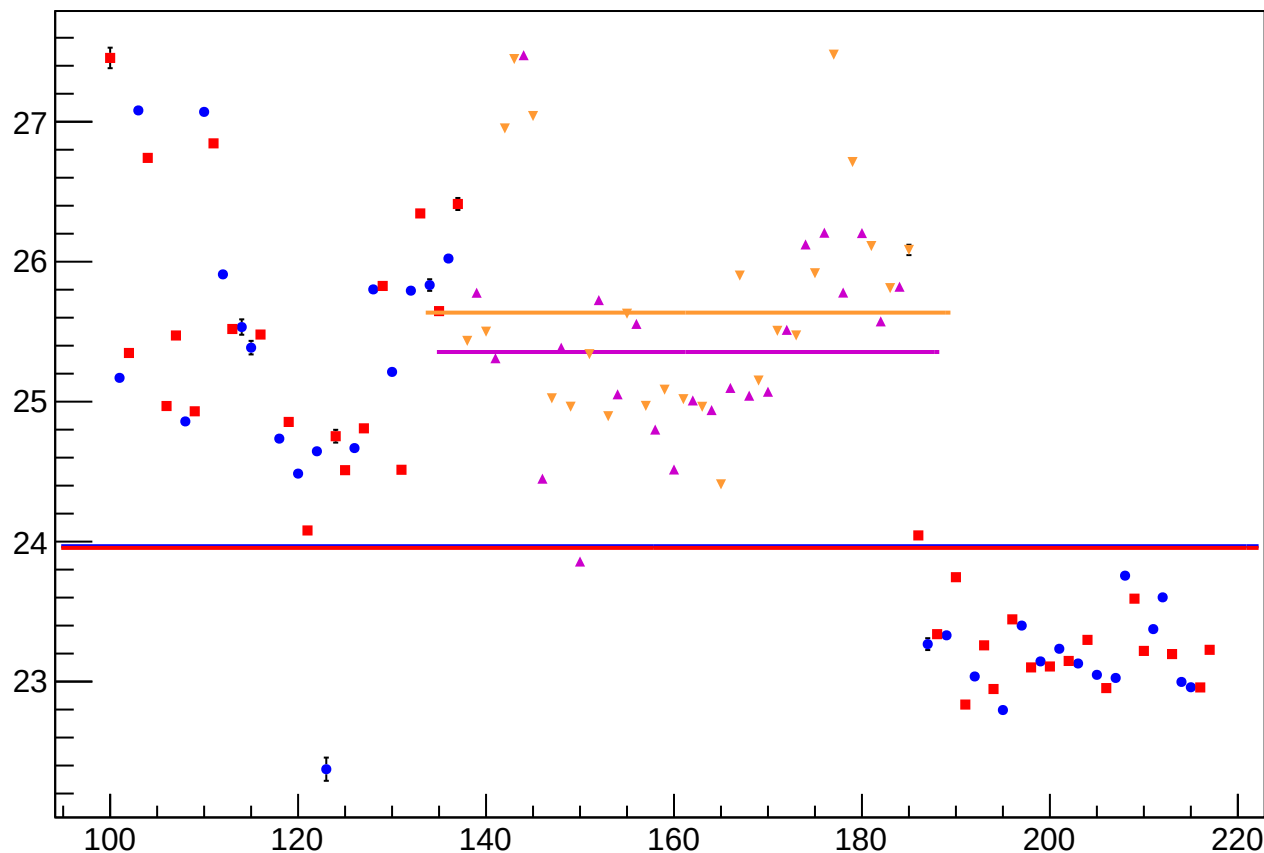
Right: 4.323 ± 3.991 χ^2/NDF : 63.8/67

In: -0.596 ± 4.180 χ^2/NDF : 51.3/54

Out: 6.381 ± 4.057 χ^2/NDF : 77.8/60

All: 2.996 ± 2.911 χ^2/NDF : 130.6/115

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.967 $\pm$ 0.004 χ^2 /NDF: 88990.7/31

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 23.955 $\pm$ 0.004 χ^2 /NDF: 84456.6/35

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF:29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

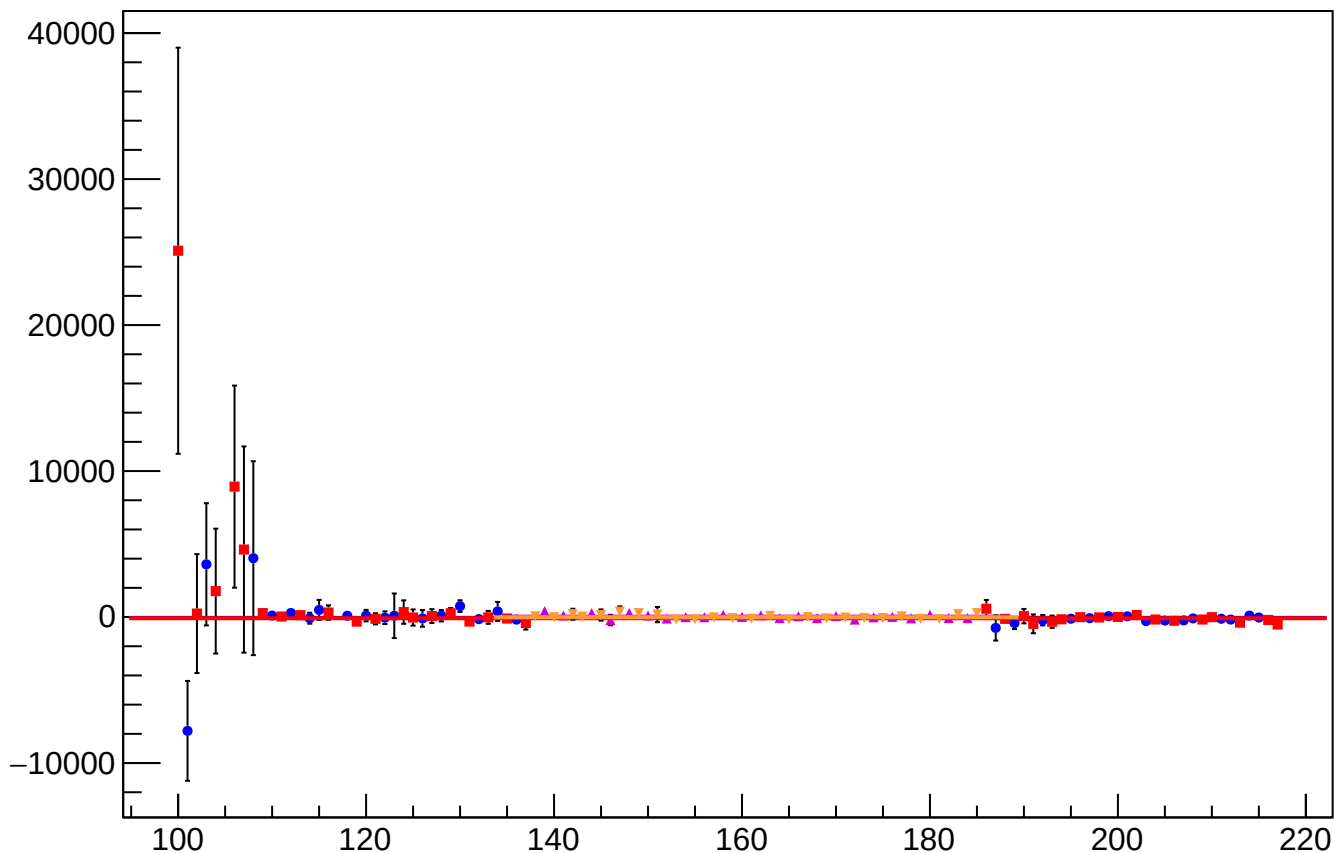
Right: 23.961 $\pm$ 0.003 χ^2 /NDF: 173451.9/67

In: 24.625 $\pm$ 0.003 χ^2 /NDF:173714.7/54

Out: 24.731 $\pm$ 0.003 χ^2 /NDF:204912.0/60

All: 24.680 $\pm$ 0.002 χ^2 /NDF: 379293.1/115

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.276+/-44.953 χ^2/NDF : 22.0/31

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -82.756+/-44.553 χ^2/NDF : 24.4/35

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

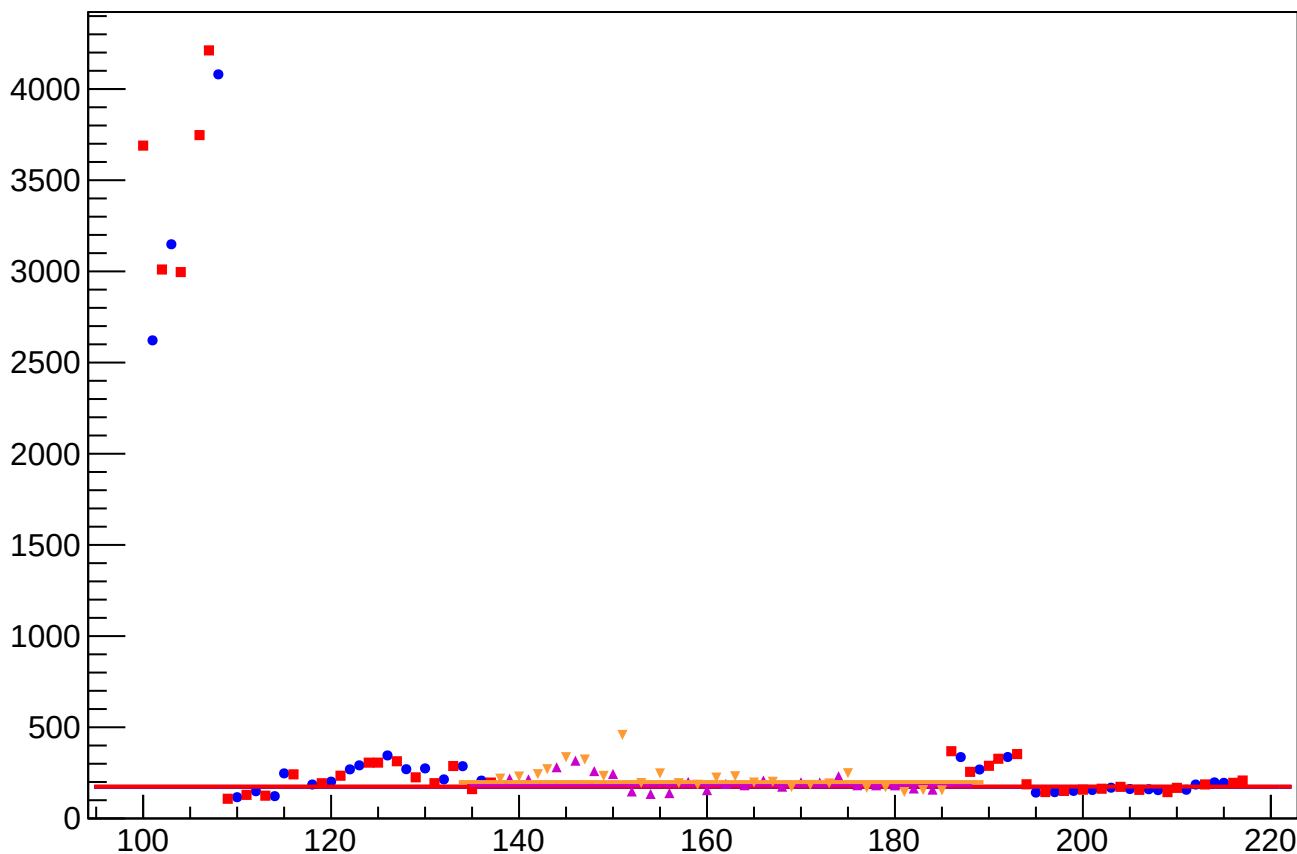
Right: -70.130+/-31.645 χ^2/NDF : 46.5/67

In: -16.074+/-32.108 χ^2/NDF : 31.2/54

Out: -50.545+/-32.722 χ^2/NDF : 33.4/60

All: -32.983+/-22.918 χ^2/NDF : 65.1/115

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.289+/-0.032 χ^2/NDF : 4565883.1/31

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 174.775+/-0.032 χ^2/NDF : 5461108.8/35

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

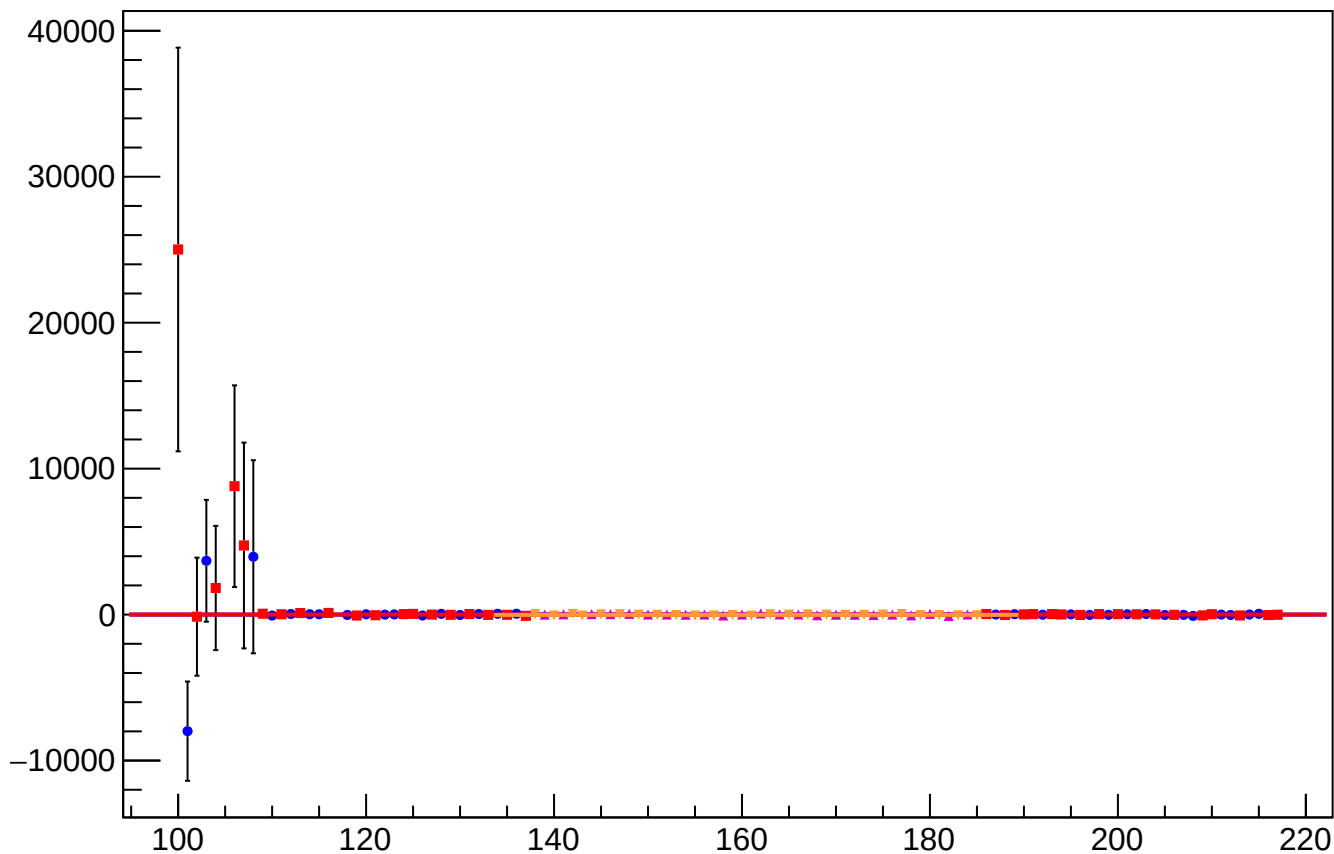
Right: 174.039+/-0.022 χ^2/NDF : 10028093.2/67

In: 178.551+/-0.023 χ^2/NDF :6045278.6/54

Out: 186.179+/-0.023 χ^2/NDF :7626170.5/60

All: 182.293+/-0.016 χ^2/NDF : 13726814.4/131

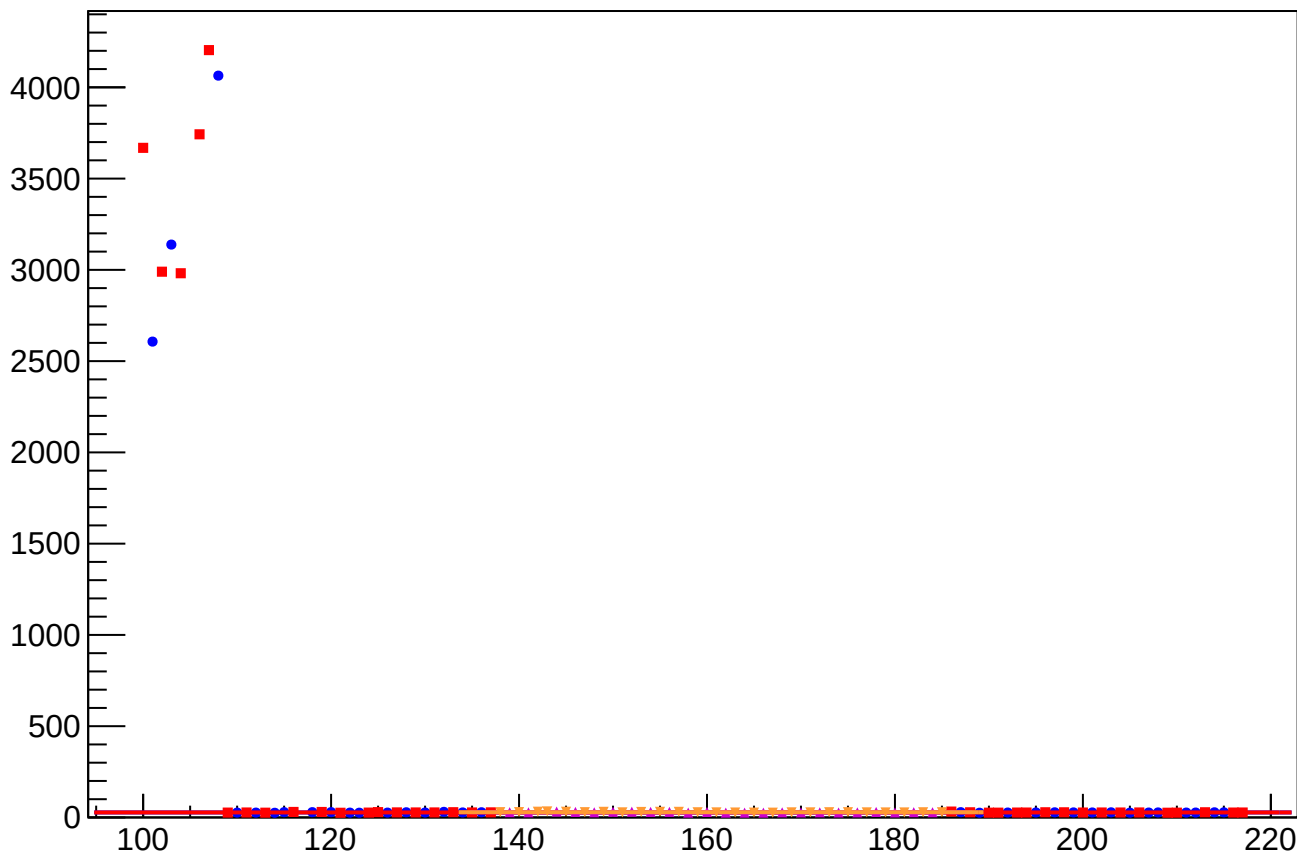
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.595+/-6.919 χ^2/NDF : 33.5/31
 Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24
 Right Out: 3.177+/-6.706 χ^2/NDF : 39.9/35
 Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47
 Right: 2.411+/-4.815 χ^2/NDF : 73.5/67
 In: 1.315+/-4.879 χ^2/NDF :65.9/54
 Out: -7.220+/-4.737 χ^2/NDF :67.1/60
 All: -3.078+/-3.399 χ^2/NDF : 134.6/115

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.506 $\pm$ 0.005 χ^2 /NDF: 3044324.5/31

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.428 $\pm$ 0.005 χ^2 /NDF: 3514749.7/35

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF: 124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

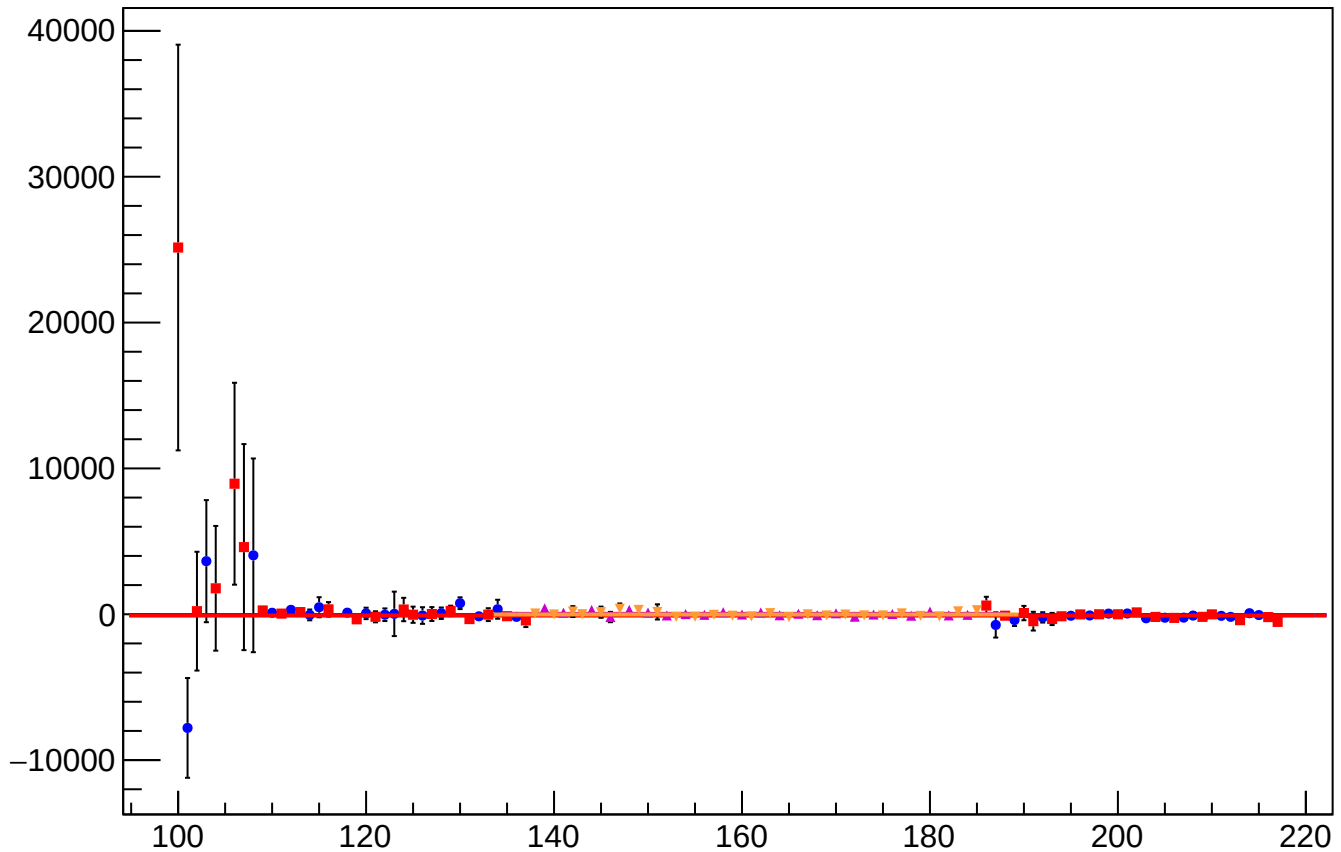
Right: 27.466 $\pm$ 0.003 χ^2 /NDF: 6559207.3/67

In: 28.093 $\pm$ 0.003 χ^2 /NDF: 3197664.8/54

Out: 28.060 $\pm$ 0.003 χ^2 /NDF: 3660783.9/60

All: 28.076 $\pm$ 0.002 χ^2 /NDF: 6858494.1/115

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.515 $\pm$ 44.816 χ^2 /NDF: 22.1/31

Left Out: -15.483 $\pm$ 48.109 χ^2 /NDF: 8.7/24

Right Out: -85.435 $\pm$ 44.424 χ^2 /NDF: 25.5/35

Left In: 27.009 $\pm$ 45.785 χ^2 /NDF: 7.8/22

Left: 6.815 $\pm$ 33.166 χ^2 /NDF: 16.9/47

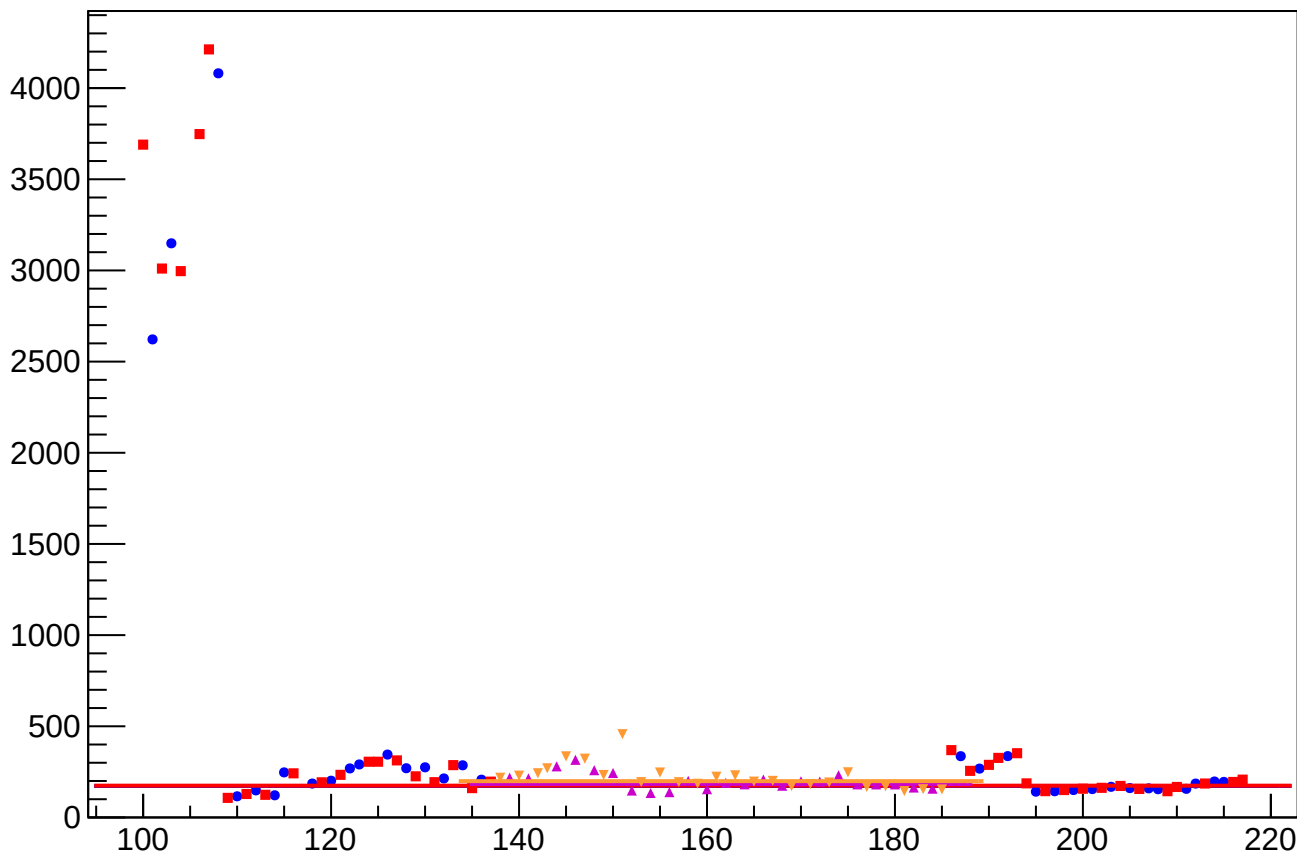
Right: -71.598 $\pm$ 31.550 χ^2 /NDF: 47.8/67

In: -16.156 $\pm$ 32.027 χ^2 /NDF: 31.7/54

Out: -53.241 $\pm$ 32.637 χ^2 /NDF: 35.3/60

All: -34.348 $\pm$ 22.859 χ^2 /NDF: 67.6/115

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.723+/-0.032 χ^2/NDF : 4579459.4/31

Left Out: 199.094+/-0.034 χ^2/NDF :1880343.4/24

Right Out: 174.218+/-0.031 χ^2/NDF : 5479006.4/35

Left In: 183.667+/-0.032 χ^2/NDF :1422895.7/22

Left: 190.999+/-0.023 χ^2/NDF : 3411149.8/47

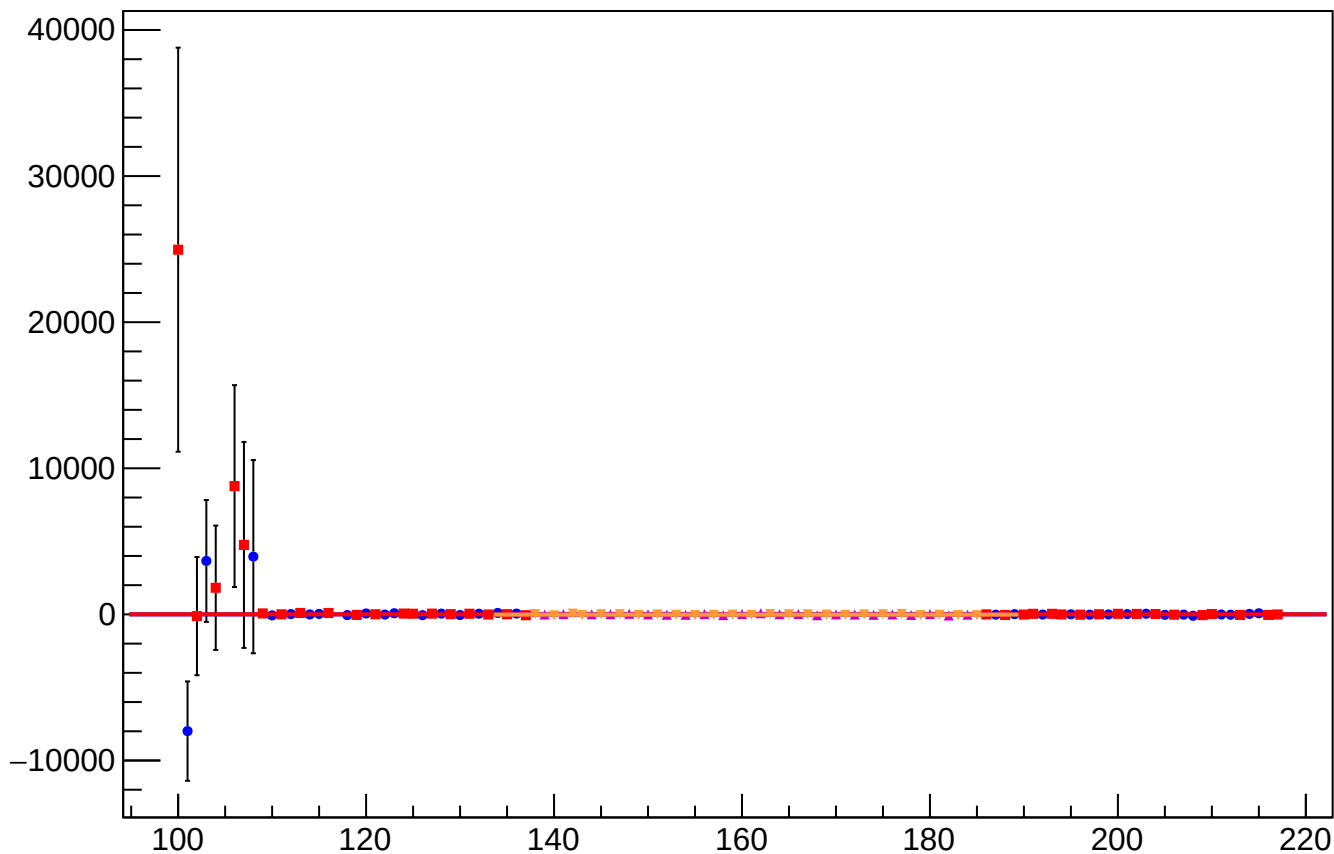
Right: 173.477+/-0.022 χ^2/NDF : 10059588.0/67

In: 178.078+/-0.023 χ^2/NDF :6060713.2/54

Out: 185.667+/-0.023 χ^2/NDF :7647979.7/60

All: 181.801+/-0.016 χ^2/NDF : 13763773.6/131

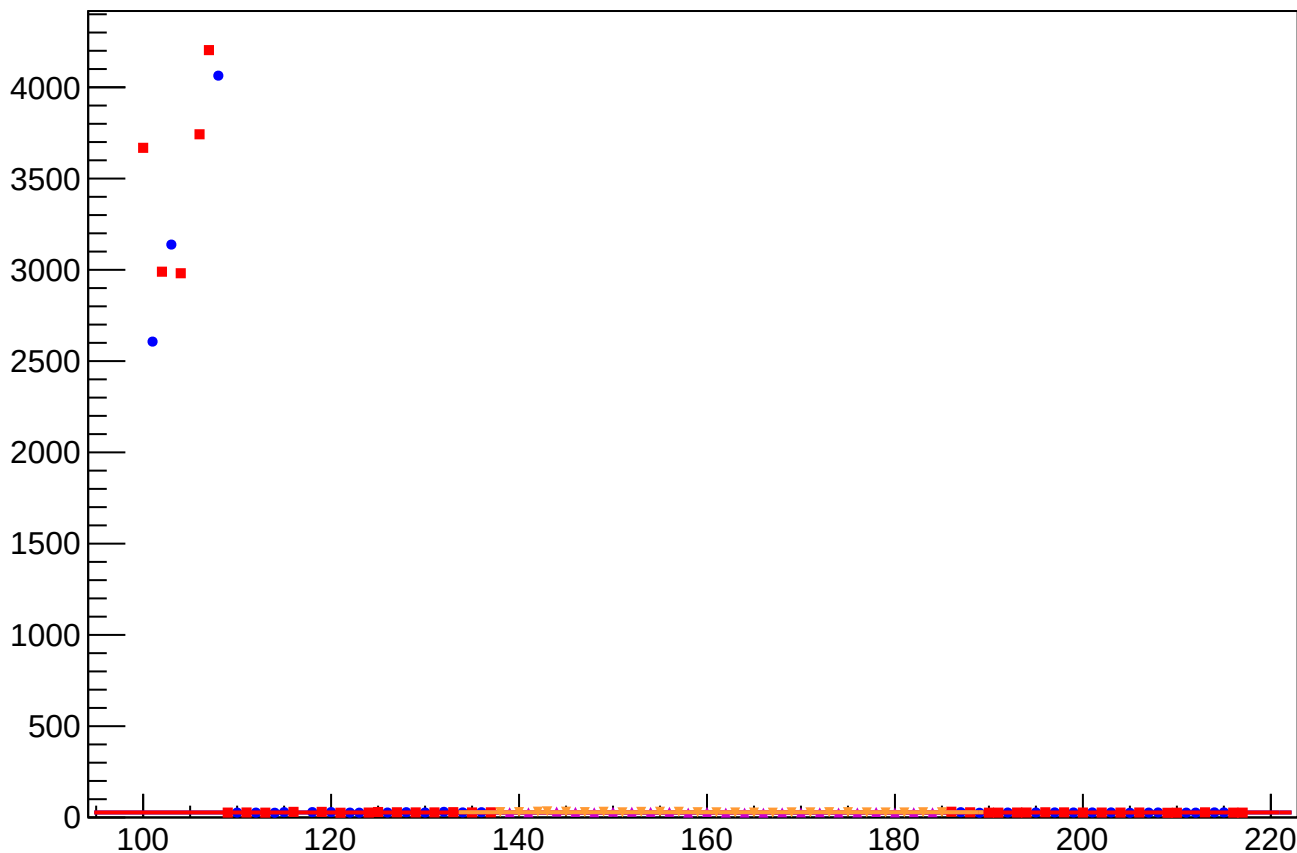
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.809+/-6.882 χ^2/NDF : 41.1/31
 Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24
 Right Out: 6.464+/-6.671 χ^2/NDF : 34.9/35
 Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47
 Right: 4.209+/-4.790 χ^2/NDF : 76.2/67
 In: 0.558+/-4.876 χ^2/NDF : 67.5/54
 Out: -4.188+/-4.736 χ^2/NDF : 57.5/60
 All: -1.884+/-3.397 χ^2/NDF : 125.4/115

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.353+/-0.005 χ^2/NDF : 3051547.0/31

Left Out: 28.813+/-0.005 χ^2/NDF : 121973.8/24

Right Out: 27.285+/-0.005 χ^2/NDF : 3521474.2/35

Left In: 28.792+/-0.005 χ^2/NDF : 129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

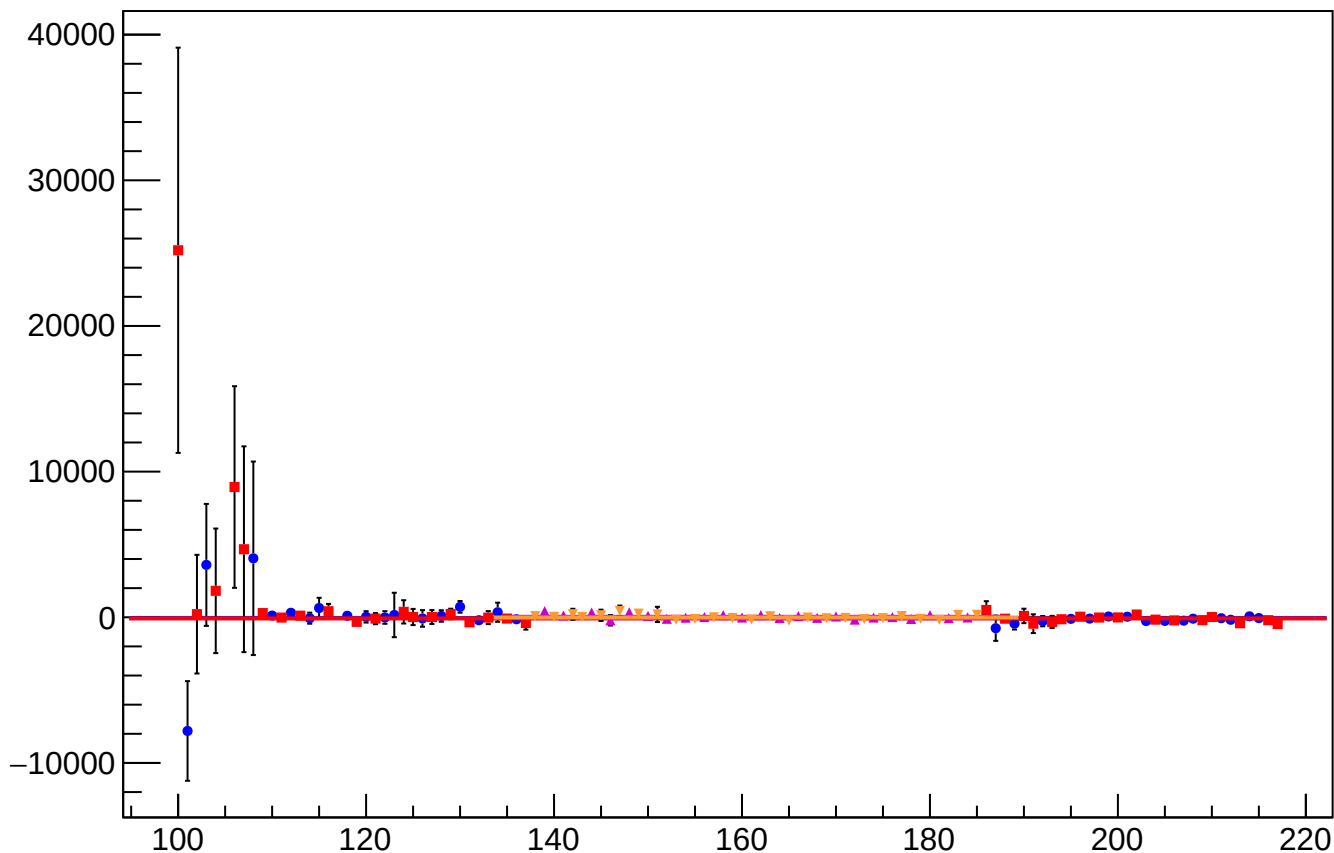
Right: 27.318+/-0.003 χ^2/NDF : 6573124.4/67

In: 28.070+/-0.003 χ^2/NDF : 3224494.4/54

Out: 28.043+/-0.003 χ^2/NDF : 3695505.3/60

All: 28.056+/-0.002 χ^2/NDF : 6920032.1/115

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.652 $\pm$ 45.110 χ^2 /NDF: 22.2/31

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -76.806 $\pm$ 44.743 χ^2 /NDF: 24.3/35

Left In: 31.170 $\pm$ 46.359 χ^2 /NDF:8.2/22

Left: 8.955 $\pm$ 33.574 χ^2 /NDF: 16.6/47

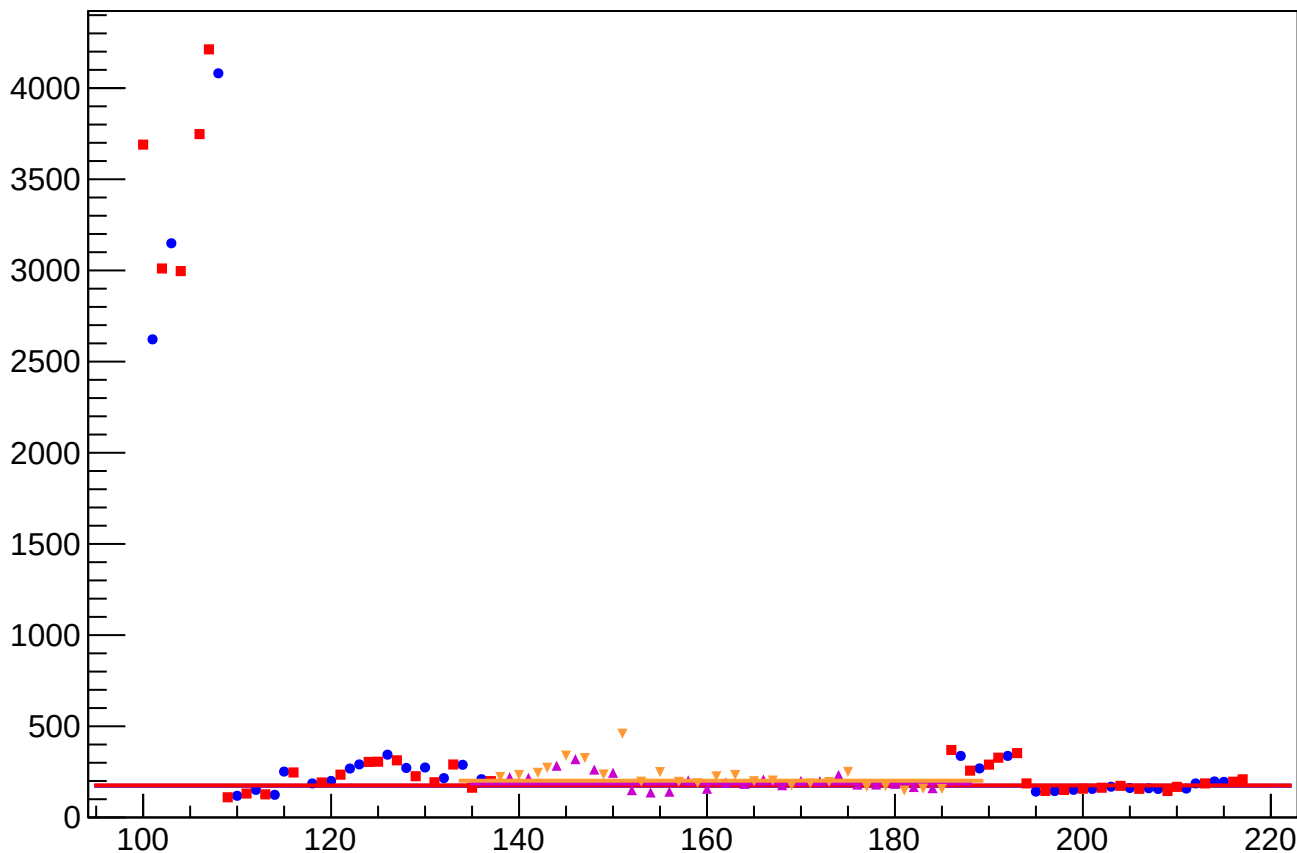
Right: -66.811 $\pm$ 31.767 χ^2 /NDF: 46.6/67

In: -13.940 $\pm$ 32.330 χ^2 /NDF:32.2/54

Out: -48.759 $\pm$ 32.944 χ^2 /NDF:33.1/60

All: -31.022 $\pm$ 23.075 χ^2 /NDF: 65.9/115

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.952+/-0.032 χ^2/NDF : 4543761.2/31

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 175.657+/-0.032 χ^2/NDF : 5418628.2/35

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

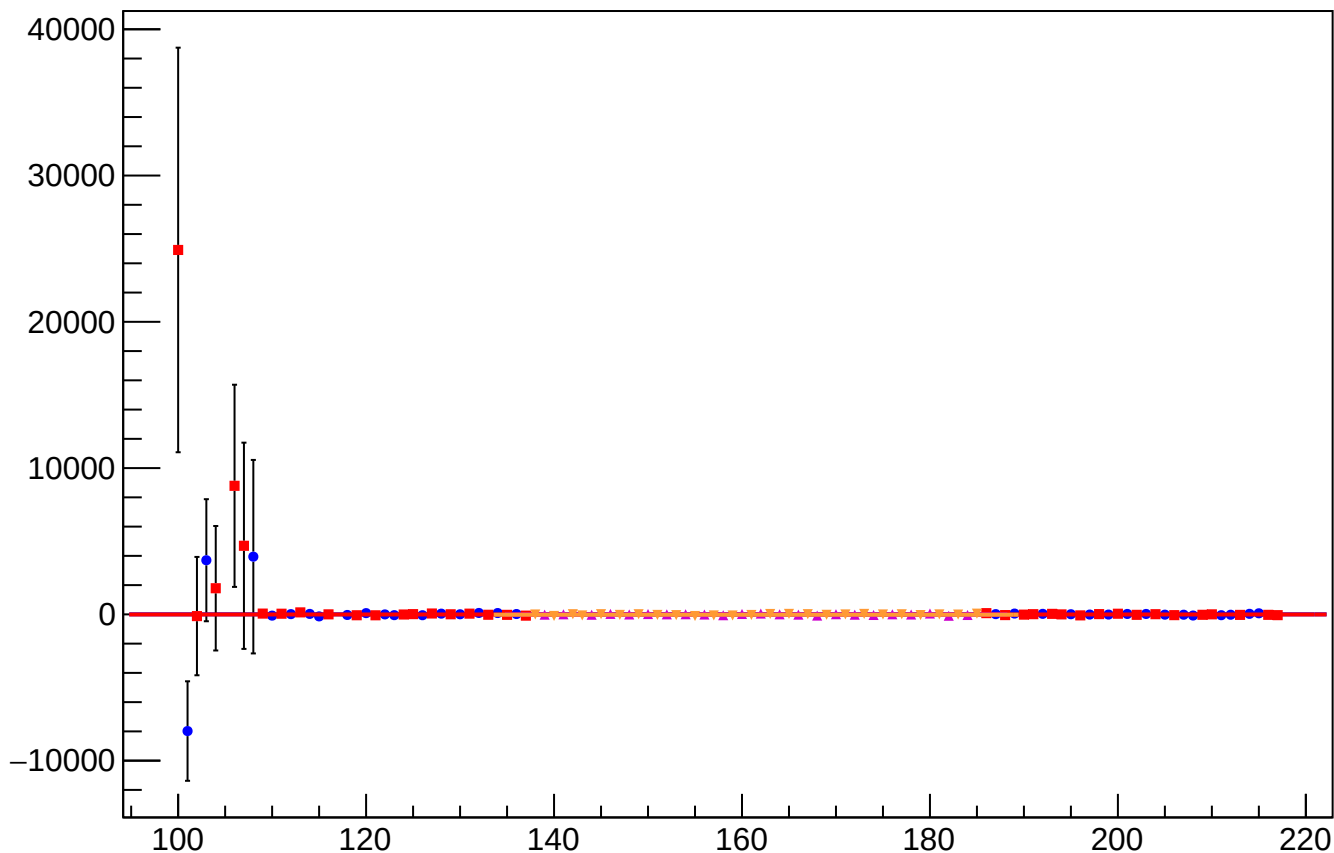
Right: 174.811+/-0.022 χ^2/NDF : 9963830.9/67

In: 179.863+/-0.023 χ^2/NDF :6005714.8/54

Out: 187.535+/-0.023 χ^2/NDF :7583931.4/60

All: 183.627+/-0.016 χ^2/NDF : 13644896.6/13

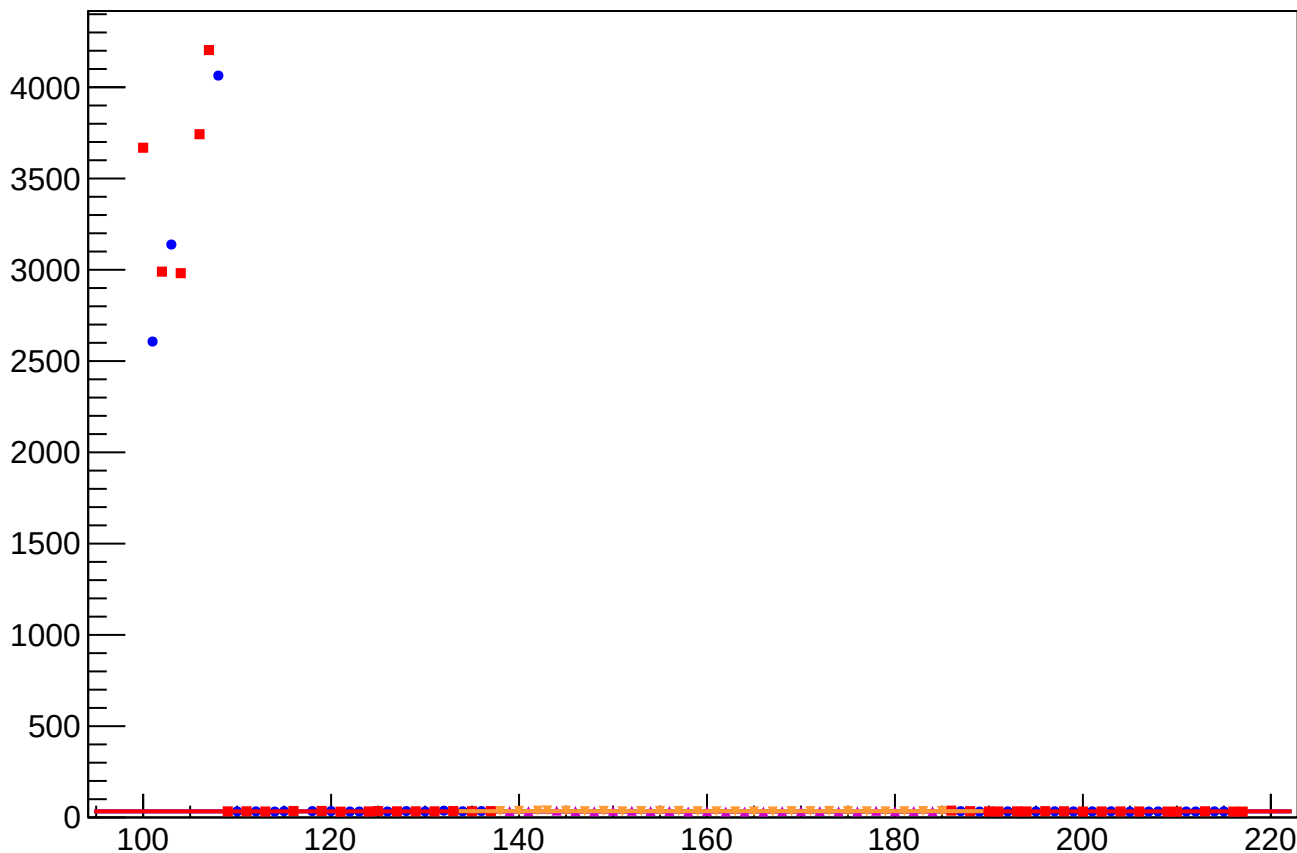
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.805+/-8.395 χ^2/NDF : 35.0/31
 Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24
 Right Out: -6.374+/-8.142 χ^2/NDF : 38.1/35
 Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47
 Right: -1.441+/-5.845 χ^2/NDF : 73.9/67
 In: -1.149+/-5.906 χ^2/NDF : 56.8/54
 Out: -14.948+/-5.730 χ^2/NDF : 66.1/60
 All: -8.257+/-4.112 χ^2/NDF : 125.8/115

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.394 $\pm$ 0.006 χ^2 /NDF: 3020528.1/31

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.343 $\pm$ 0.006 χ^2 /NDF: 3478617.5/35

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

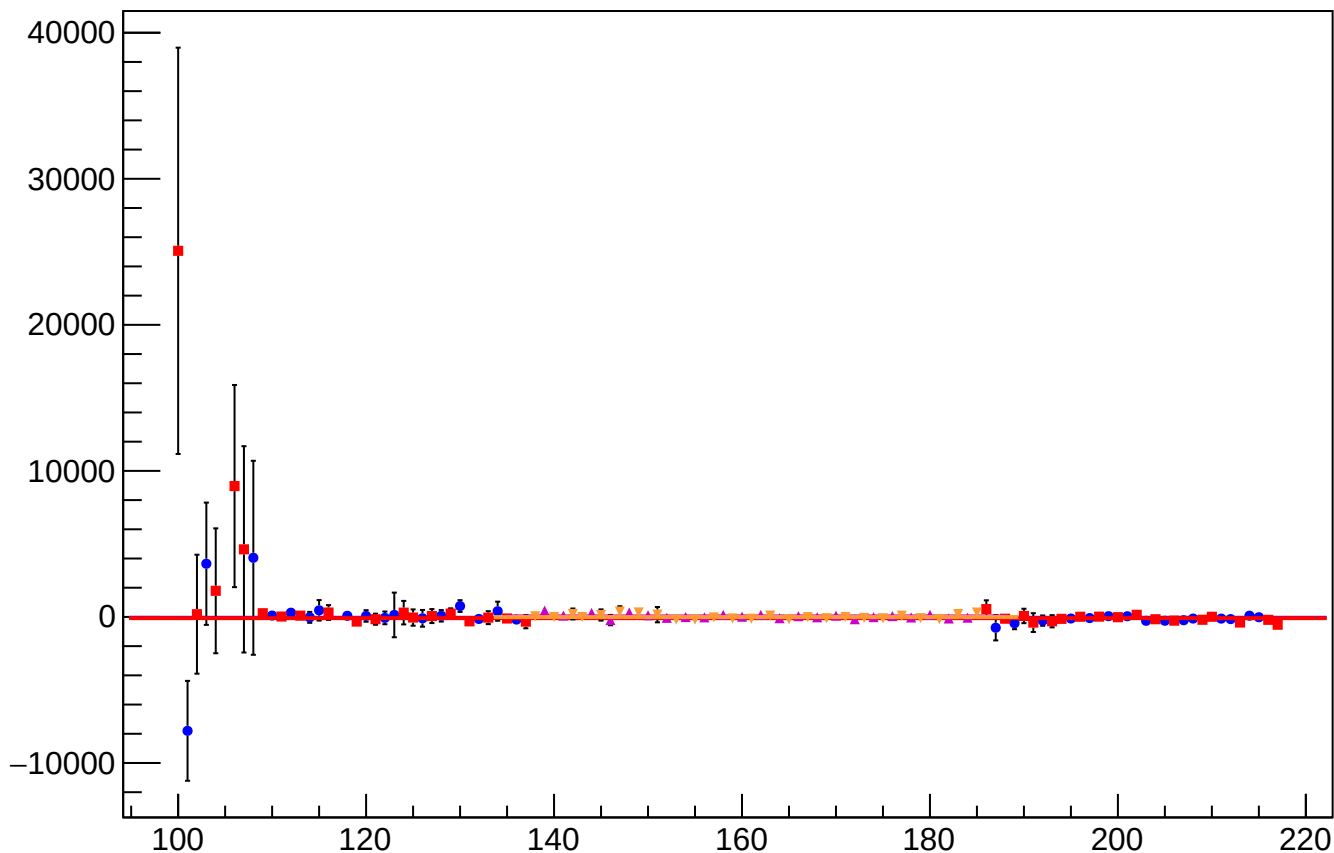
Right: 33.368 $\pm$ 0.004 χ^2 /NDF: 6499182.4/67

In: 34.046 $\pm$ 0.004 χ^2 /NDF: 3104752.4/54

Out: 33.985 $\pm$ 0.004 χ^2 /NDF: 3561166.5/60

All: 34.015 $\pm$ 0.003 χ^2 /NDF: 6666029.0/115

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.487 ± 44.983 χ^2/NDF : 22.0/31

Left Out: -8.916 ± 48.615 χ^2/NDF : 8.6/24

Right Out: -82.932 ± 44.580 χ^2/NDF : 23.5/35

Left In: 34.127 ± 46.296 χ^2/NDF : 7.4/22

Left: 13.656 ± 33.526 χ^2/NDF : 16.5/47

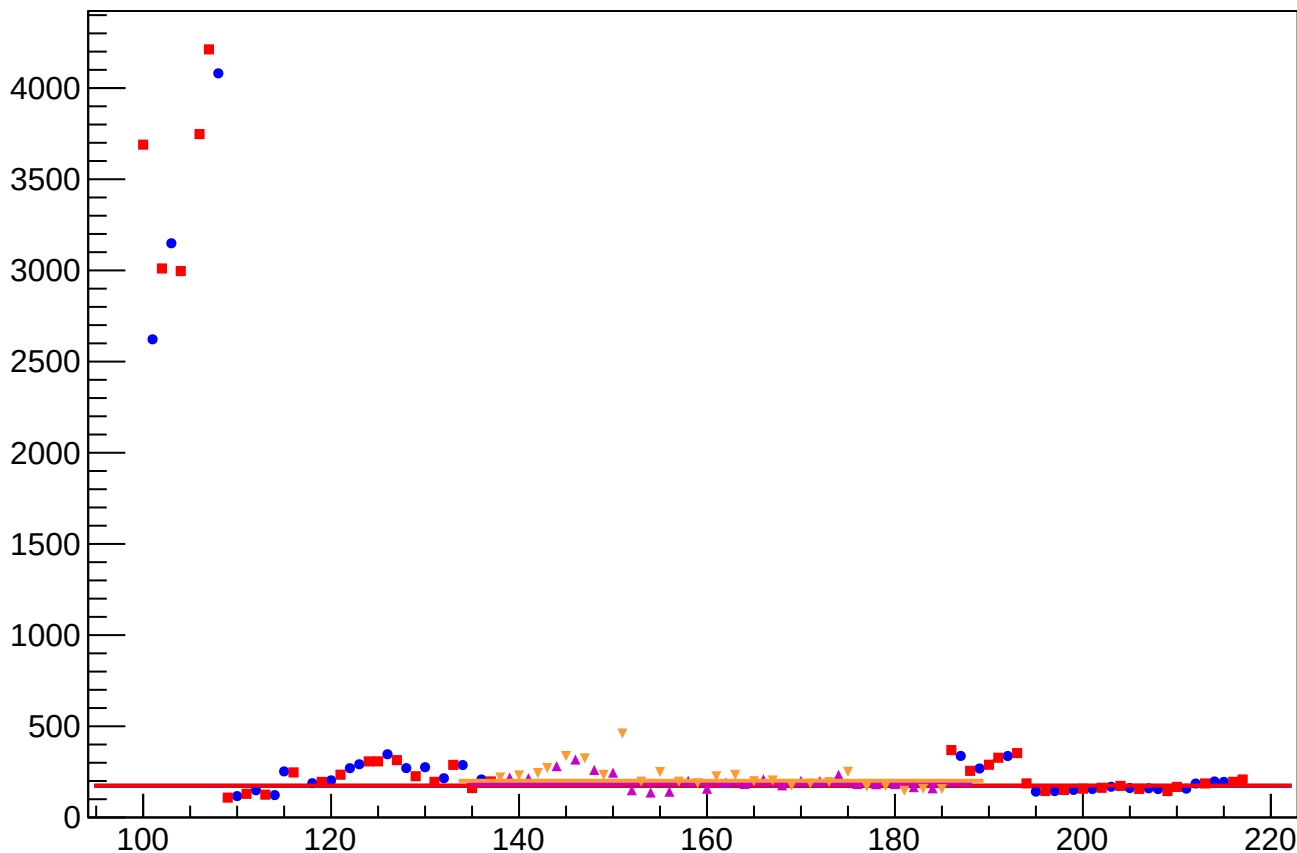
Right: -71.315 ± 31.664 χ^2/NDF : 45.7/67

In: -14.026 ± 32.262 χ^2/NDF : 31.5/54

Out: -49.123 ± 32.857 χ^2/NDF : 33.4/60

All: -31.254 ± 23.020 χ^2/NDF : 65.5/115

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.385+/-0.032 χ^2/NDF : 4574041.8/31

Left Out: 201.296+/-0.034 χ^2/NDF : 1851134.1/24

Right Out: 174.873+/-0.032 χ^2/NDF : 5467139.6/35

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

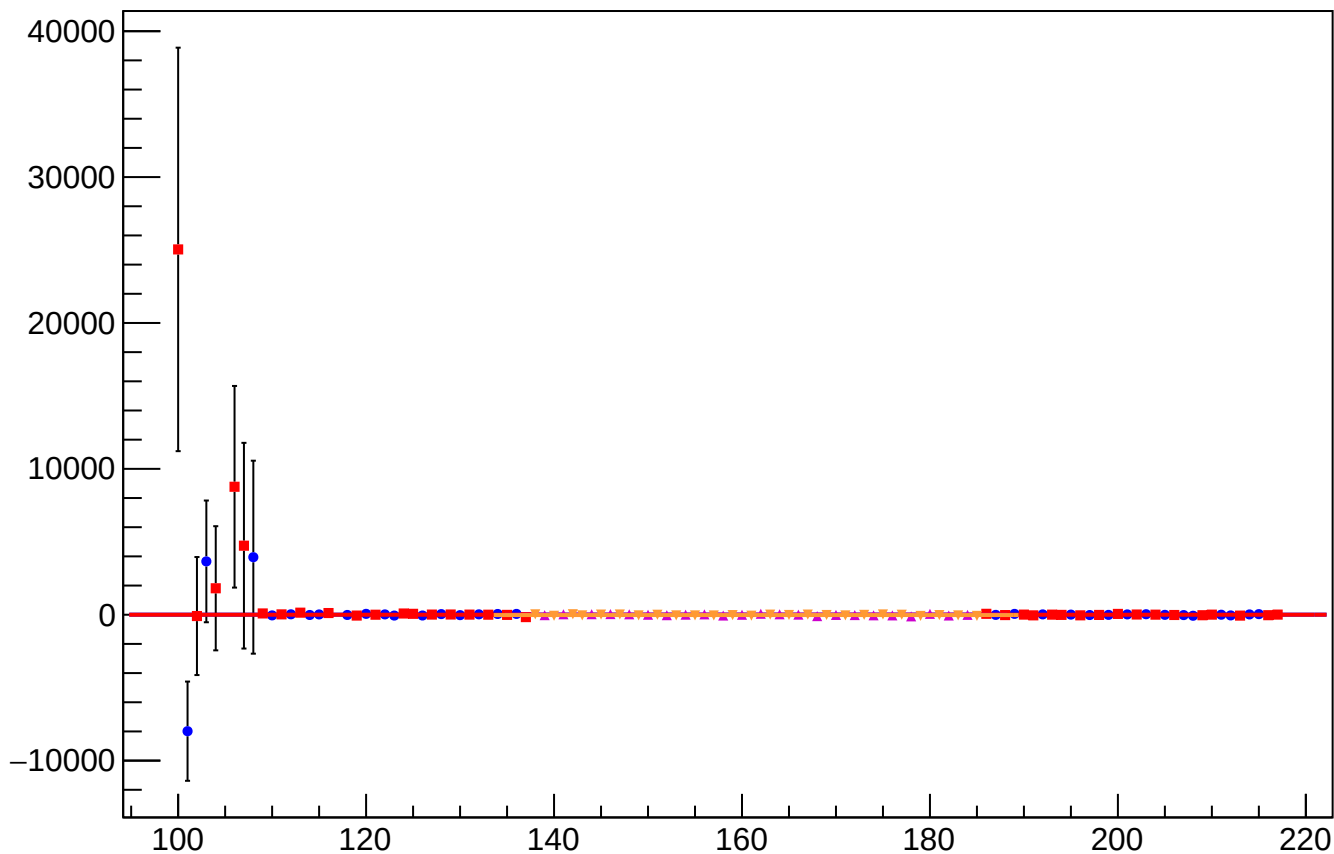
Right: 174.136+/-0.022 χ^2/NDF : 10042285.0/67

In: 179.440+/-0.023 χ^2/NDF : 6030435.2/54

Out: 186.943+/-0.023 χ^2/NDF : 7639229.5/60

All: 183.123+/-0.016 χ^2/NDF : 13722754.8/13

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.675+/-7.597 χ^2/NDF : 26.5/31

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 0.923+/-7.363 χ^2/NDF : 42.8/35

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

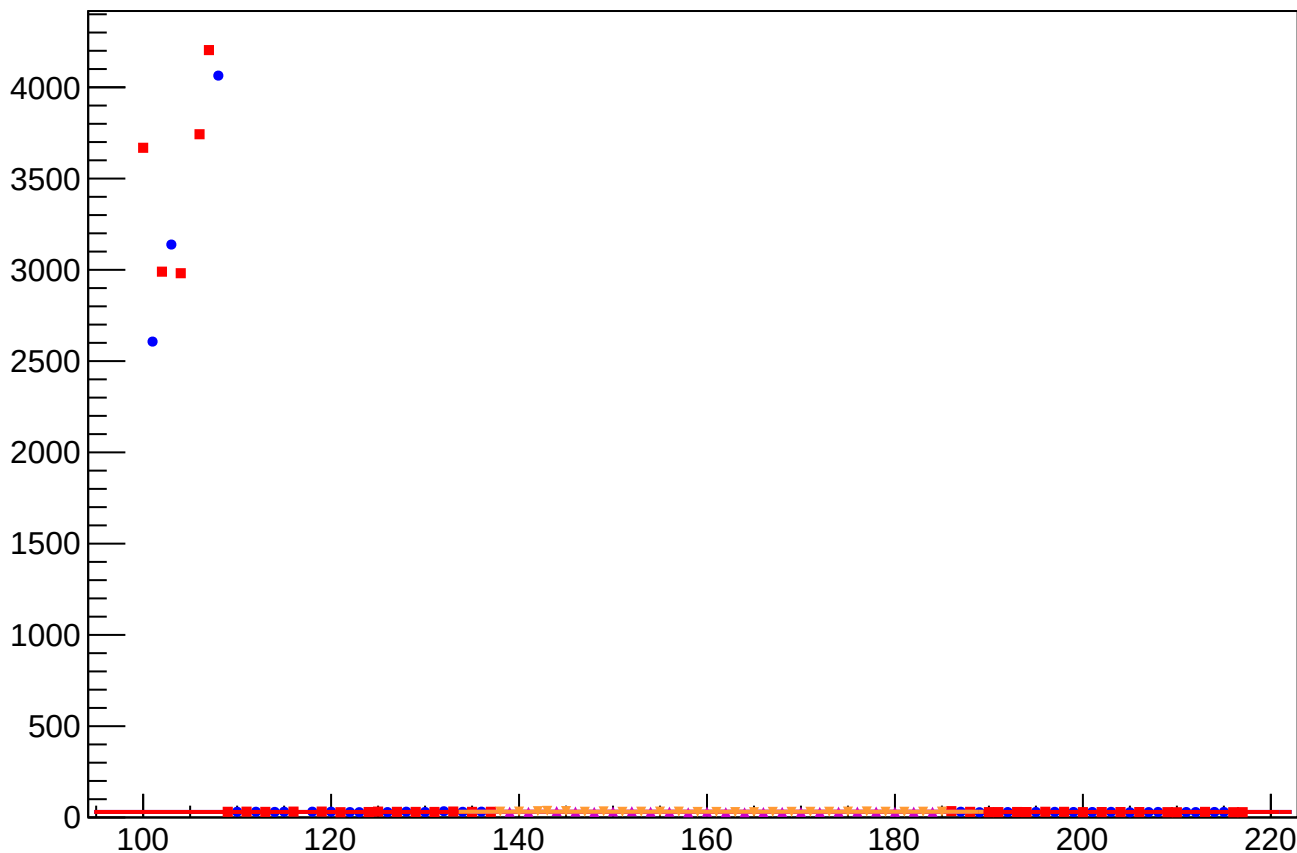
Right: 2.740+/-5.287 χ^2/NDF : 69.4/67

In: -0.668+/-5.355 χ^2/NDF : 65.8/54

Out: -11.015+/-5.198 χ^2/NDF : 66.8/60

All: -5.995+/-3.730 χ^2/NDF : 134.5/115

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.208 $\pm$ 0.005 χ^2 /NDF: 3038376.5/31

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.129 $\pm$ 0.005 χ^2 /NDF: 3498825.1/35

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

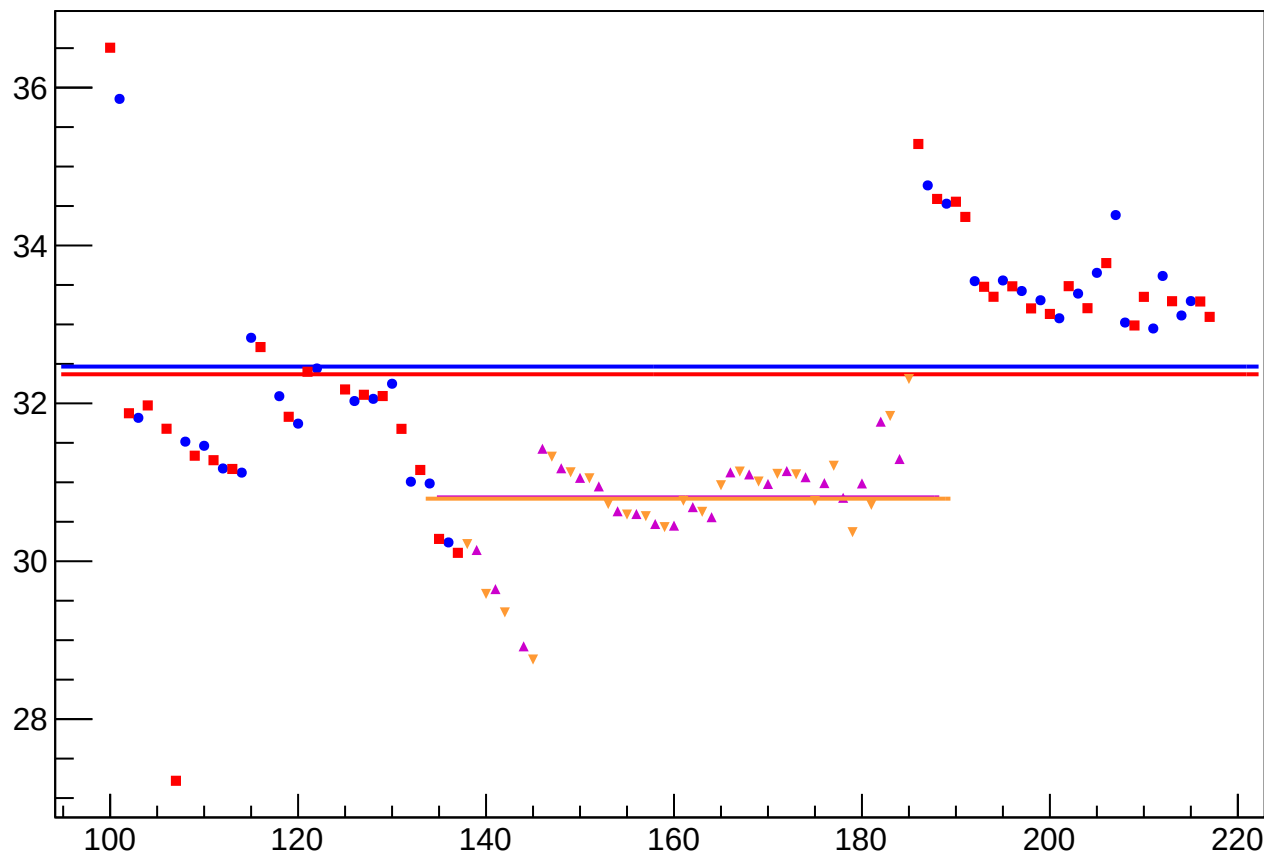
Right: 30.167 $\pm$ 0.004 χ^2 /NDF: 6537312.0/67

In: 30.850 $\pm$ 0.004 χ^2 /NDF:3154765.9/54

Out: 30.808 $\pm$ 0.004 χ^2 /NDF:3615101.7/60

All: 30.828 $\pm$ 0.003 χ^2 /NDF: 6769932.5/115

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.466+/-0.000

χ^2/NDF : 3022218726.7/30

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right Out: 32.368+/-0.000

χ^2/NDF : 2638690024.2/34

Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Right: 32.418+/-0.000

χ^2/NDF : 5670490456.8/65

In: 31.527+/-0.000

χ^2/NDF : 7014705365.3/53

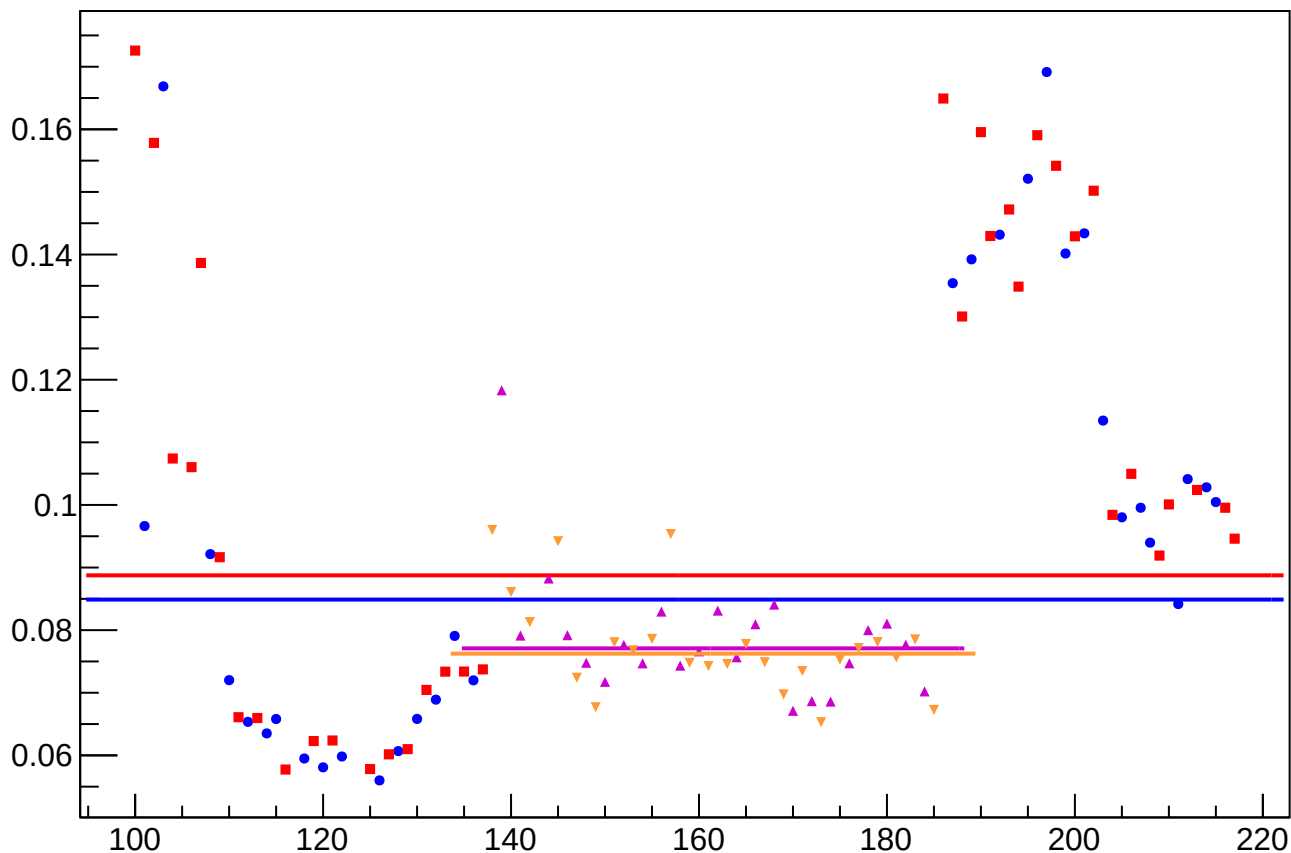
Out: 31.453+/-0.000

χ^2/NDF : 6517009860.1/58

All: 31.490+/-0.000

χ^2/NDF : 13544709846.5

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.085 $\pm$ 0.000 χ^2 /NDF: 3274365.1/30

Left Out: 0.076 $\pm$ 0.000 χ^2 /NDF:277876.5/23

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 3682716.1/34

Left In: 0.077 $\pm$ 0.000 χ^2 /NDF:325844.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 605642.6/46

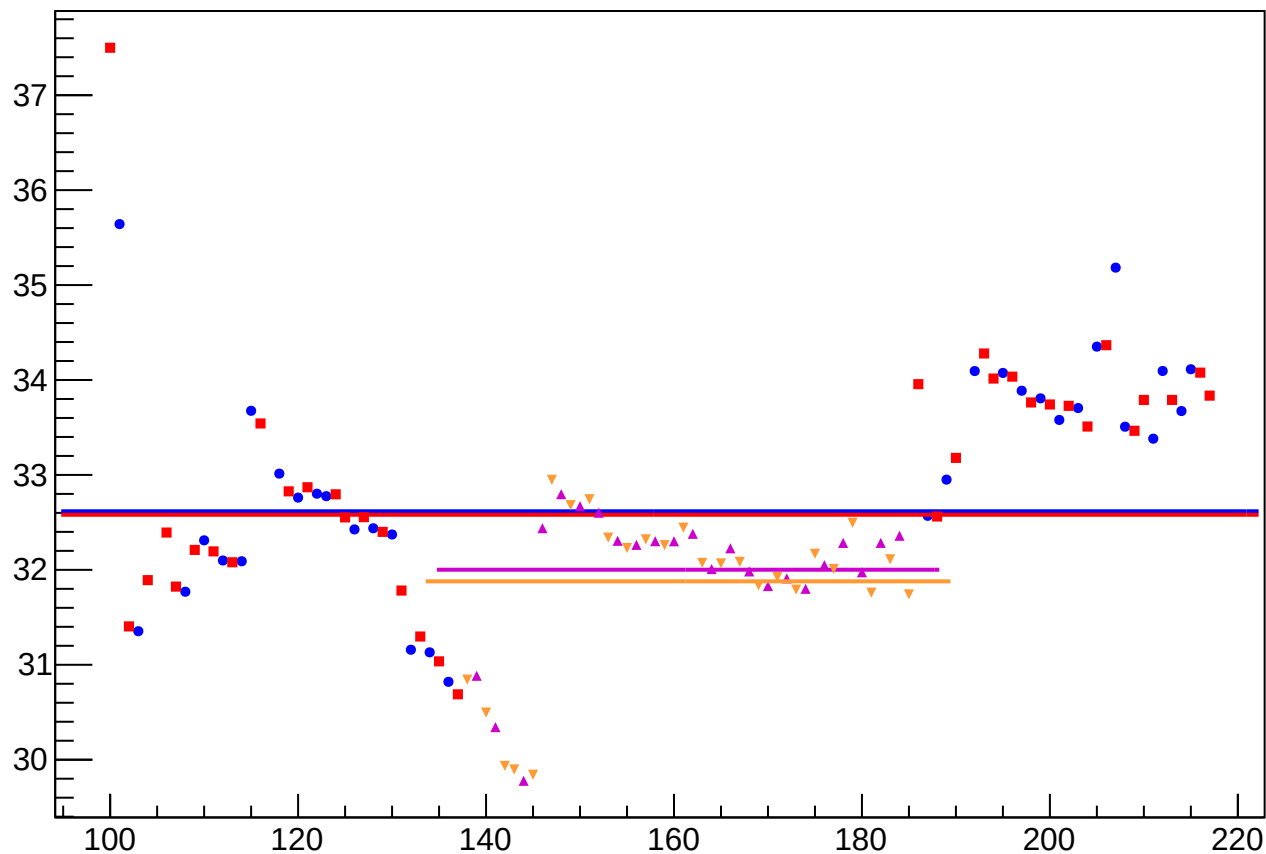
Right: 0.087 $\pm$ 0.000 χ^2 /NDF: 6987270.8/65

In: 0.080 $\pm$ 0.000 χ^2 /NDF:3740524.5/53

Out: 0.081 $\pm$ 0.000 χ^2 /NDF:4322372.7/58

All: 0.081 $\pm$ 0.000 χ^2 /NDF: 8067829.3/112

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.617+/-0.000

χ^2/NDF : 1645675448.5/31

Left Out: 31.879+/-0.000

χ^2/NDF : 1976281391.1/24

Right Out: 32.580+/-0.000

χ^2/NDF : 1031885991.1/34

Left In: 32.001+/-0.000

χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000

χ^2/NDF : 3408370857.8/47

Right: 32.599+/-0.000

χ^2/NDF : 2678266584.0/66

In: 32.171+/-0.000

χ^2/NDF : 3344481299.2/54

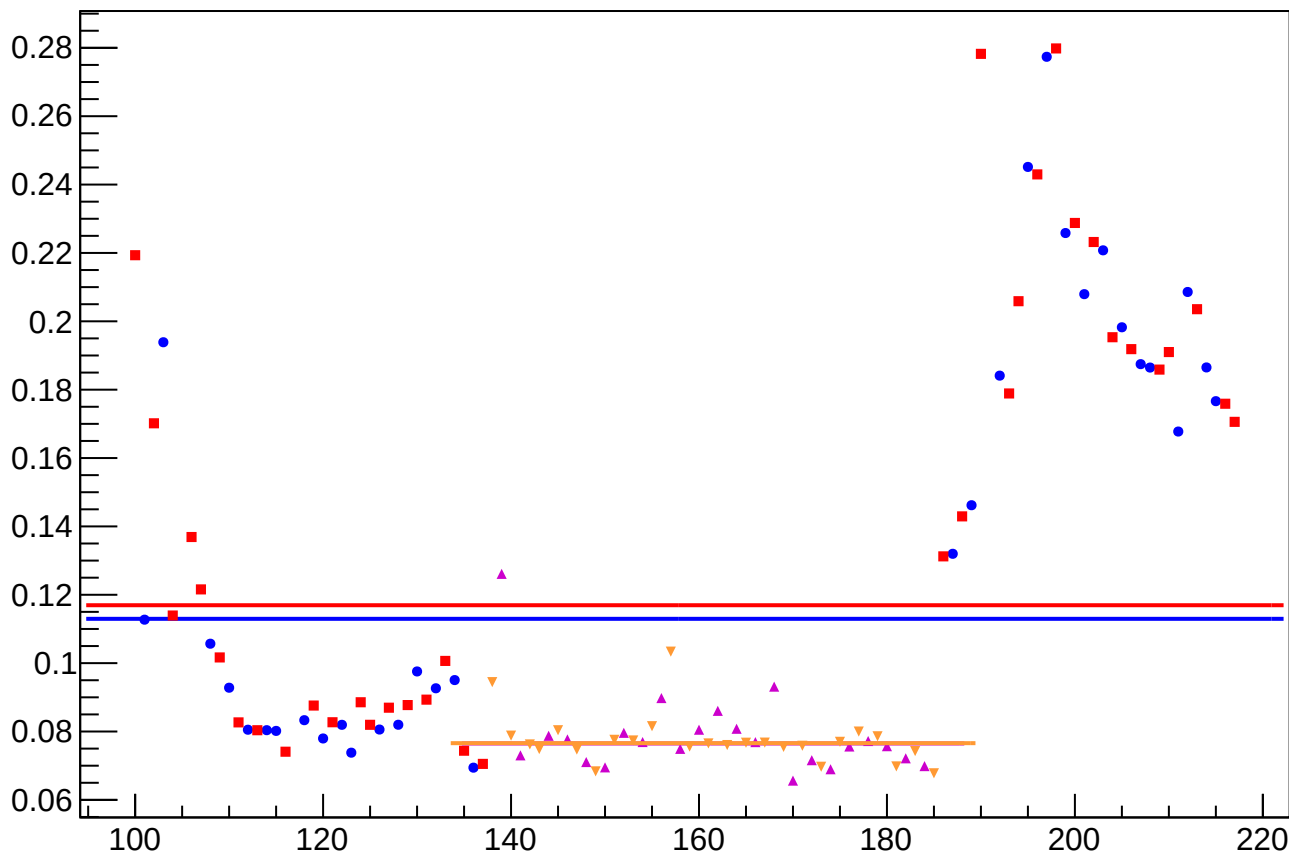
Out: 32.068+/-0.000

χ^2/NDF : 3389185765.0/59

All: 32.119+/-0.000

χ^2/NDF : 6754333217.5/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.113+/-0.000 χ^2/NDF : 5616246.2/31

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.117+/-0.000 χ^2/NDF : 5389564.6/34

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

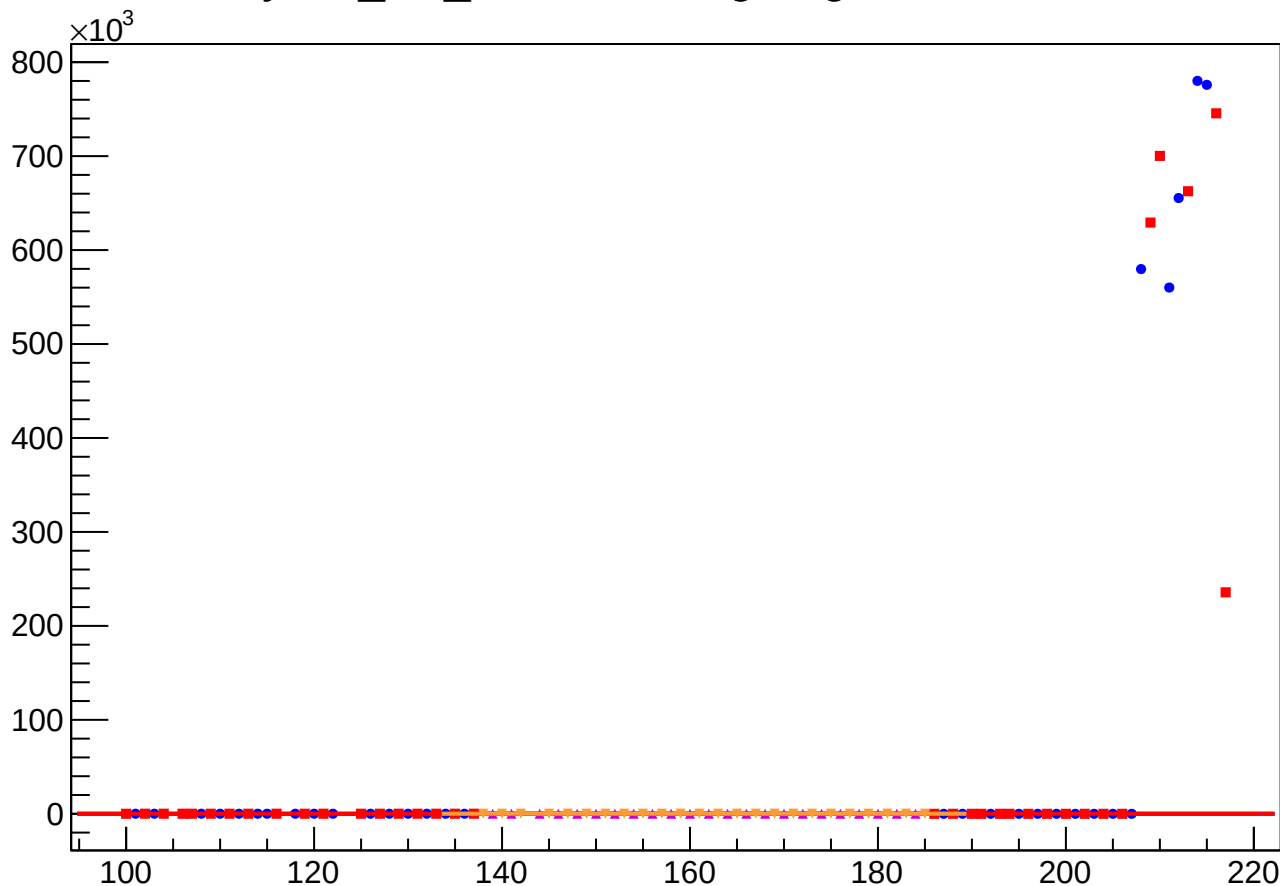
Right: 0.115+/-0.000 χ^2/NDF : 11022493.8/66

In: 0.087+/-0.000 χ^2/NDF : 8067454.6/54

Out: 0.087+/-0.000 χ^2/NDF : 8122500.0/59

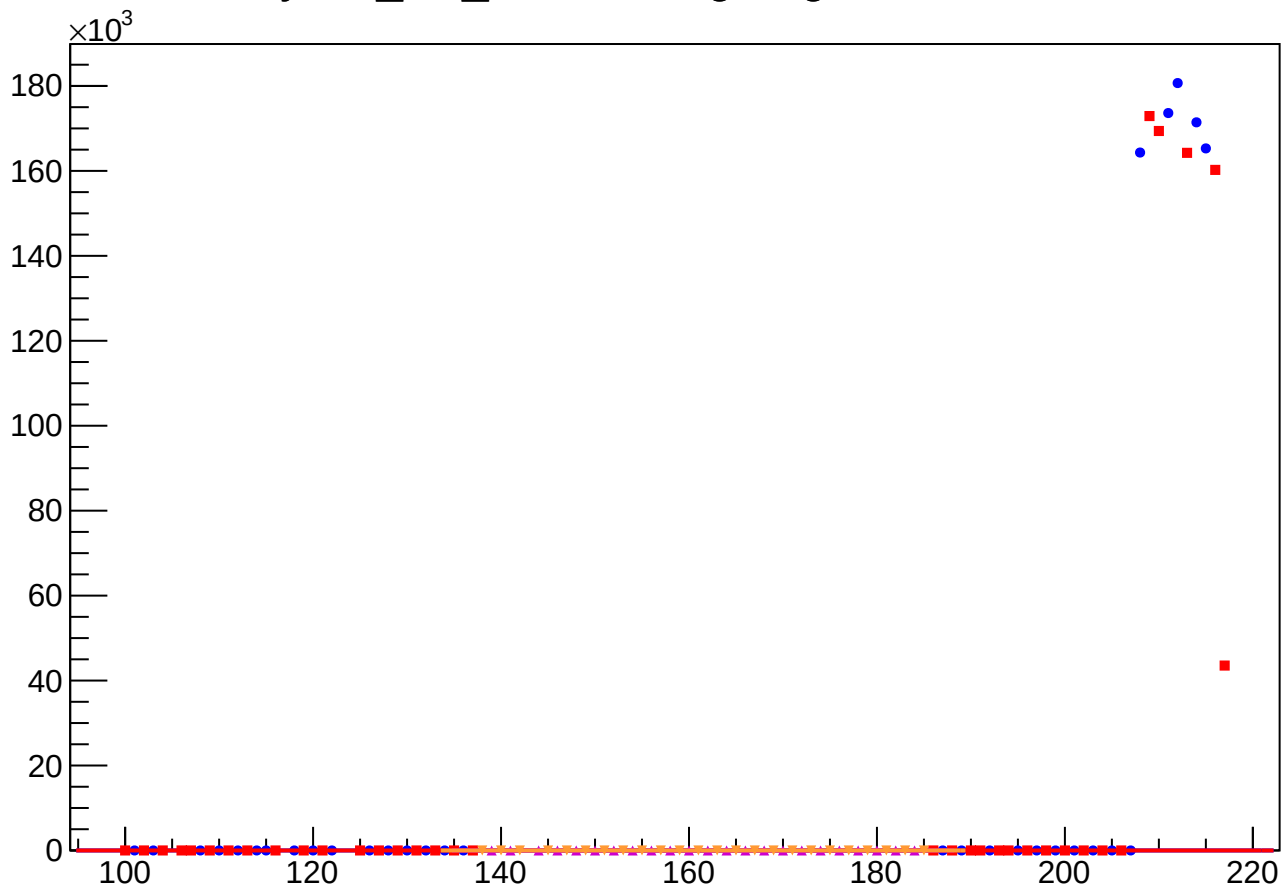
All: 0.087+/-0.000 χ^2/NDF : 16192980.5/114

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853554000542.4/30	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419929051213.0/46
Right Out: 51.099+/-0.000	χ^2/NDF : 11528467569329.3/34	In: 71.422+/-0.000	χ^2/NDF : 13699390811491.0/53
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15307020328749.0/53
		All: 70.353+/-0.000	χ^2/NDF : 2903833681576.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 7420716.1/30

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 7156623.2/34

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 450258.5/46

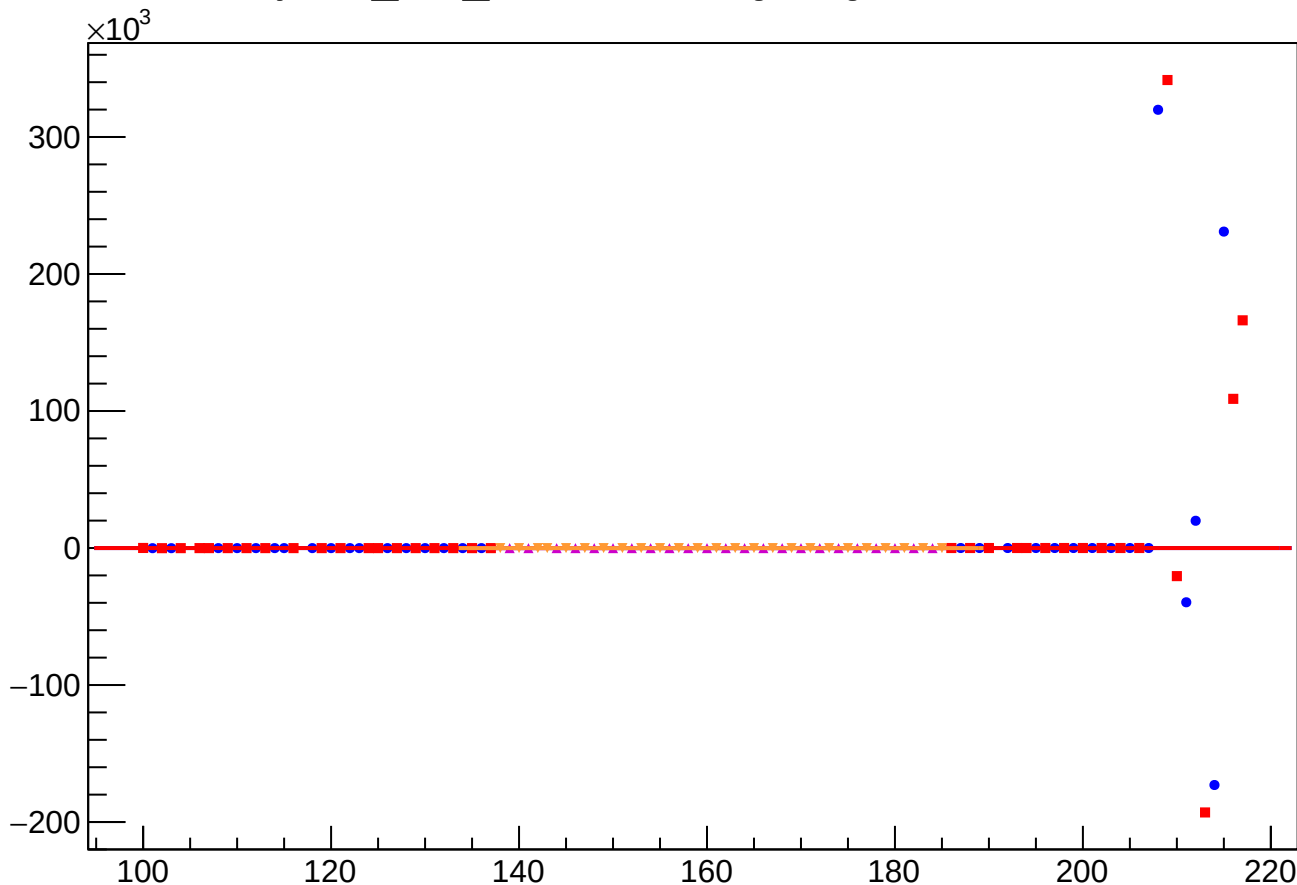
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 14577343.2/65

In: 0.046 $\pm$ 0.000 χ^2 /NDF:7690030.9/53

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:7382875.6/58

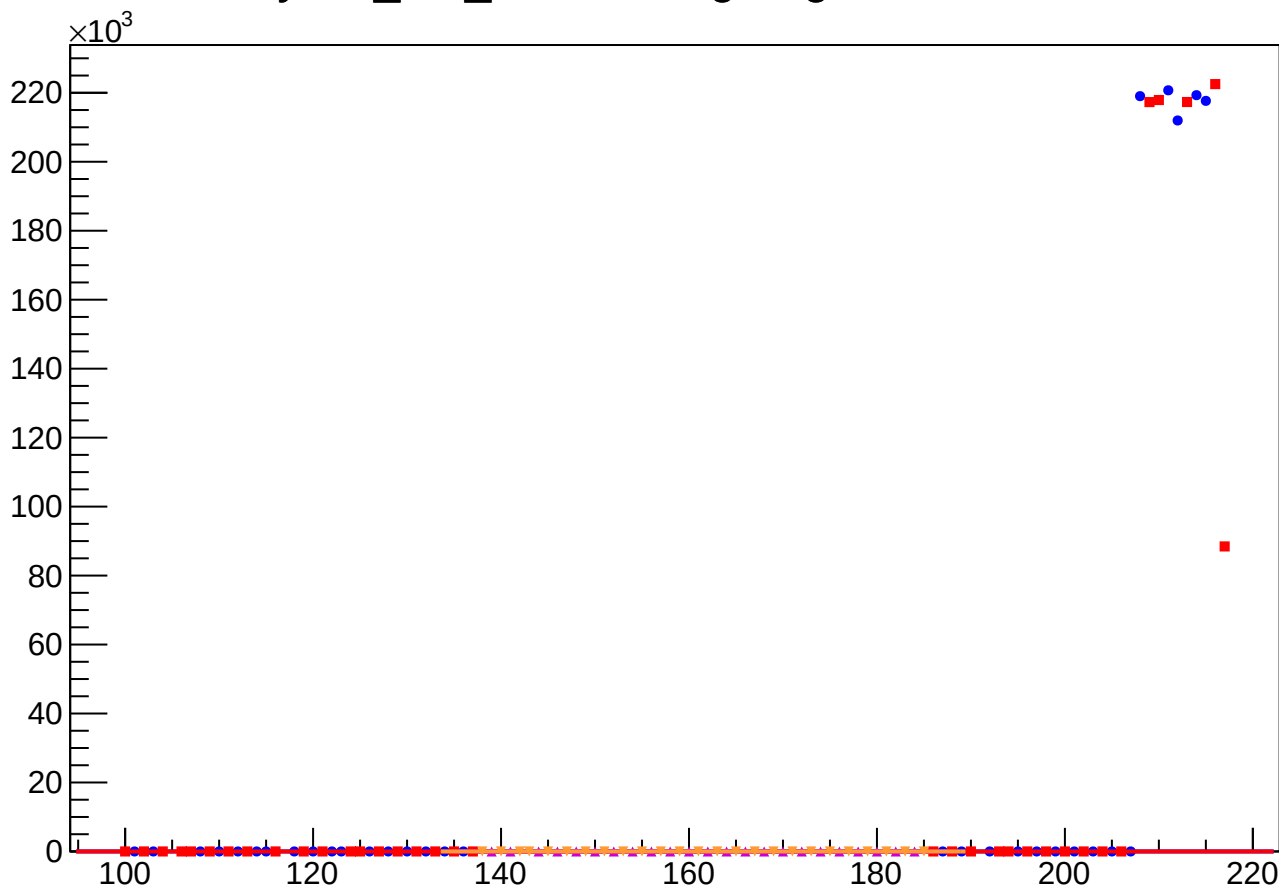
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 15073449.6/112

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479129971869.0/31	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -29.369+/-0.000	χ^2/NDF : 14808903548216.2
Right Out: -28.760+/-0.000	χ^2/NDF : 7325684169551.0/34	In: -50.762+/-0.000	χ^2/NDF : 11497071565897.3/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926093461632.8/
		All: -50.406+/-0.000	χ^2/NDF : 234256973574

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 7190612.7/31

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 7029606.5/34

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

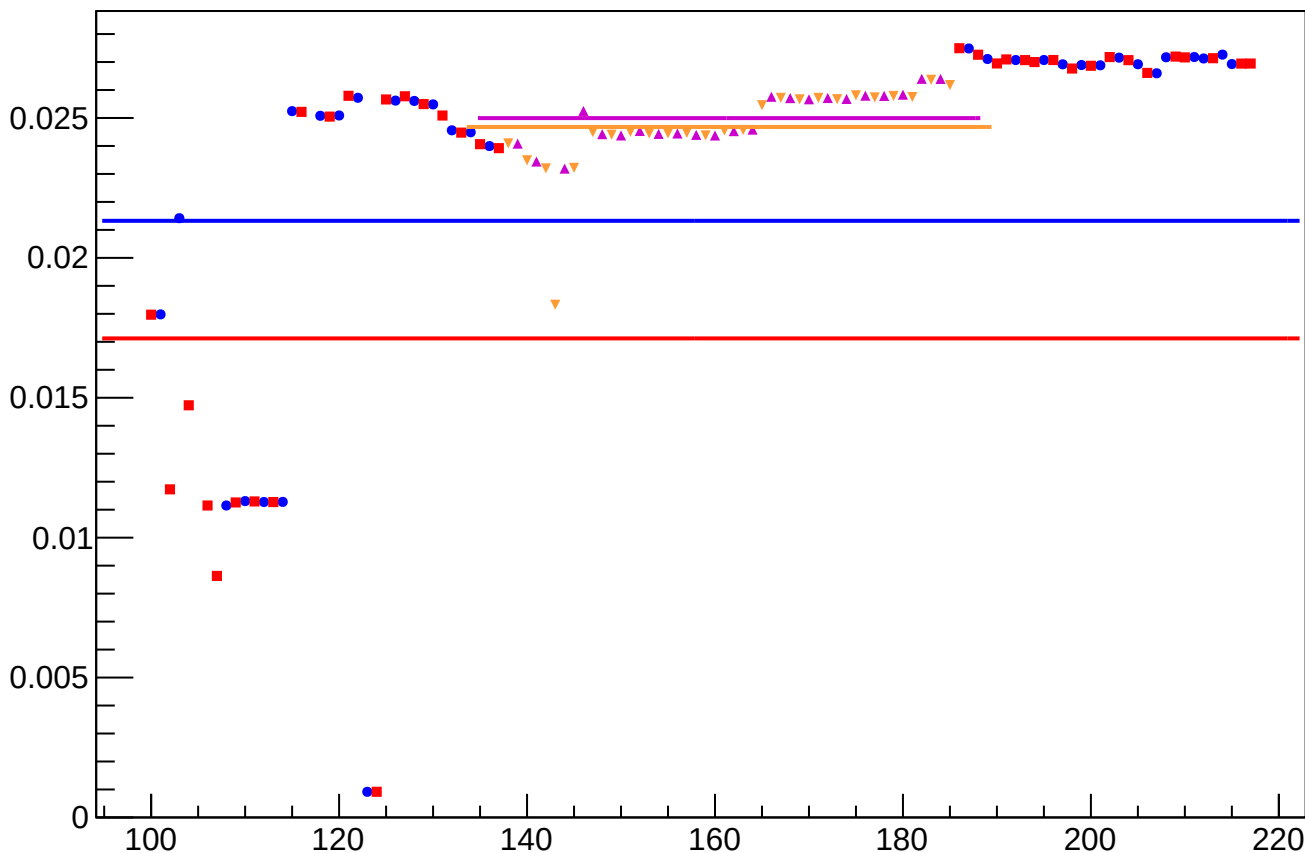
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 14220267.1/66

In: 0.054 $\pm$ 0.000 χ^2 /NDF:7304664.1/54

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:7124260.3/59

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 14429622.0/114

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 201047898958.3/31

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 683318527660.7/67

Right Out: 0.017+/-0.000

χ^2/NDF : 452809447865.2/35

In: 0.023+/-0.000

χ^2/NDF : 225237495909.2/54

Out: 0.021+/-0.000

χ^2/NDF : 569767958186.8/60

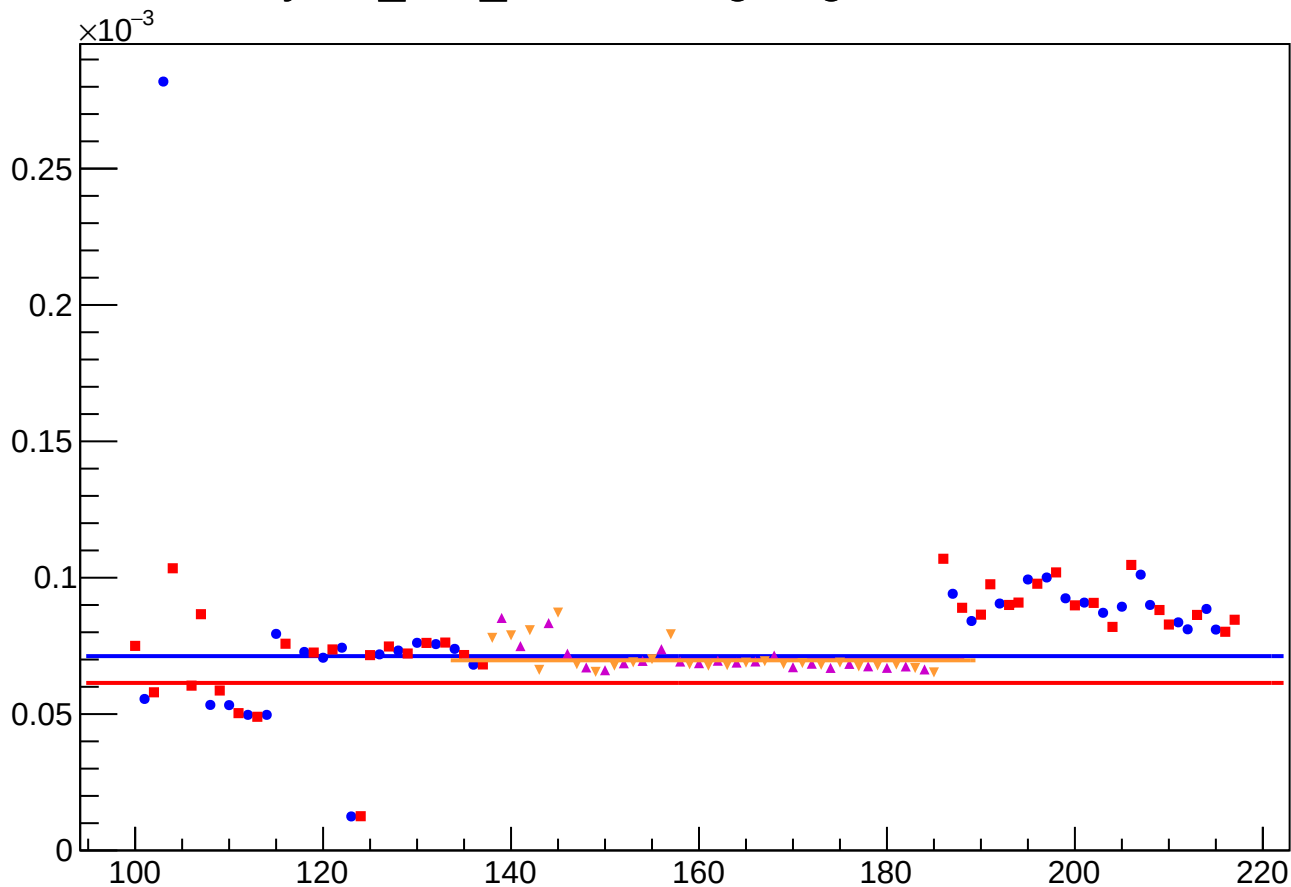
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 815997441362.0

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3644790.6/31

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7309054.8/35

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

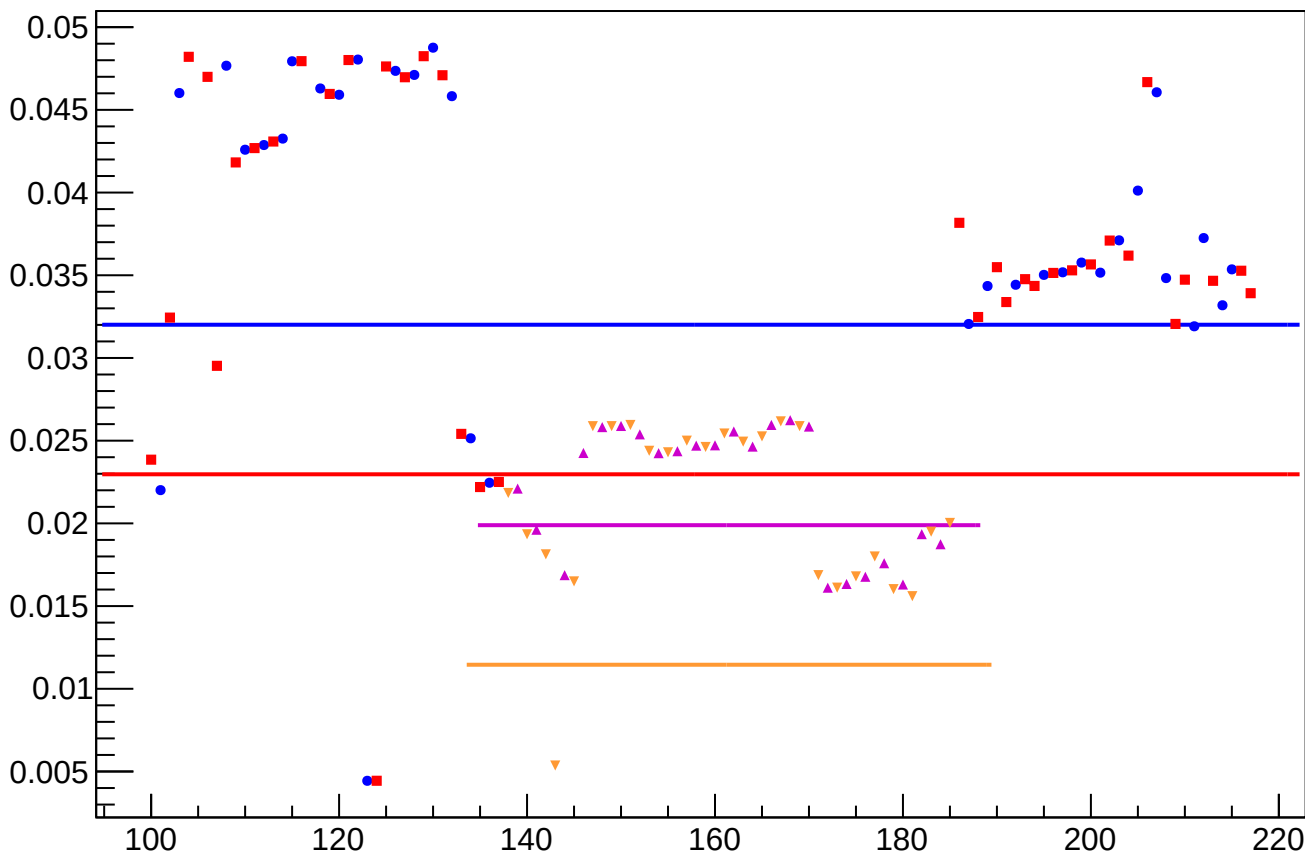
Right: 0.000+/-0.000 χ^2/NDF : 11275835.4/67

In: 0.000+/-0.000 χ^2/NDF :3780355.4/54

Out: 0.000+/-0.000 χ^2/NDF :7725305.4/60

All: 0.000+/-0.000 χ^2/NDF : 11677691.6/115

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21808159017.4/31

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.027+/-0.000

χ^2/NDF : 71911472700.4/67

Right Out: 0.023+/-0.000

χ^2/NDF : 45377775726.1/35

In: 0.023+/-0.000

χ^2/NDF : 36845879946.1/54

Out: 0.013+/-0.000

χ^2/NDF : 101769724928.1/60

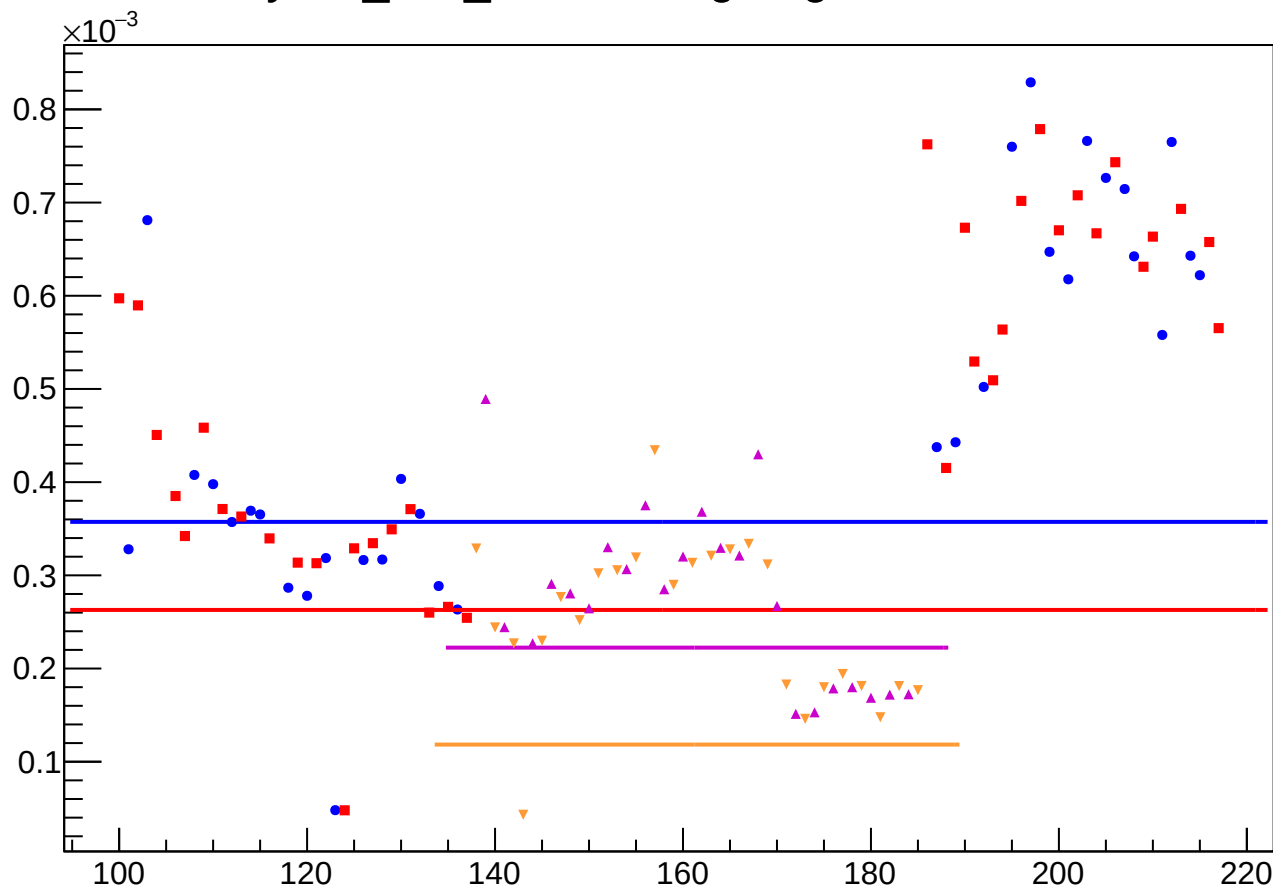
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 162607268974.0

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7833674.9/31

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14423446.6/35

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

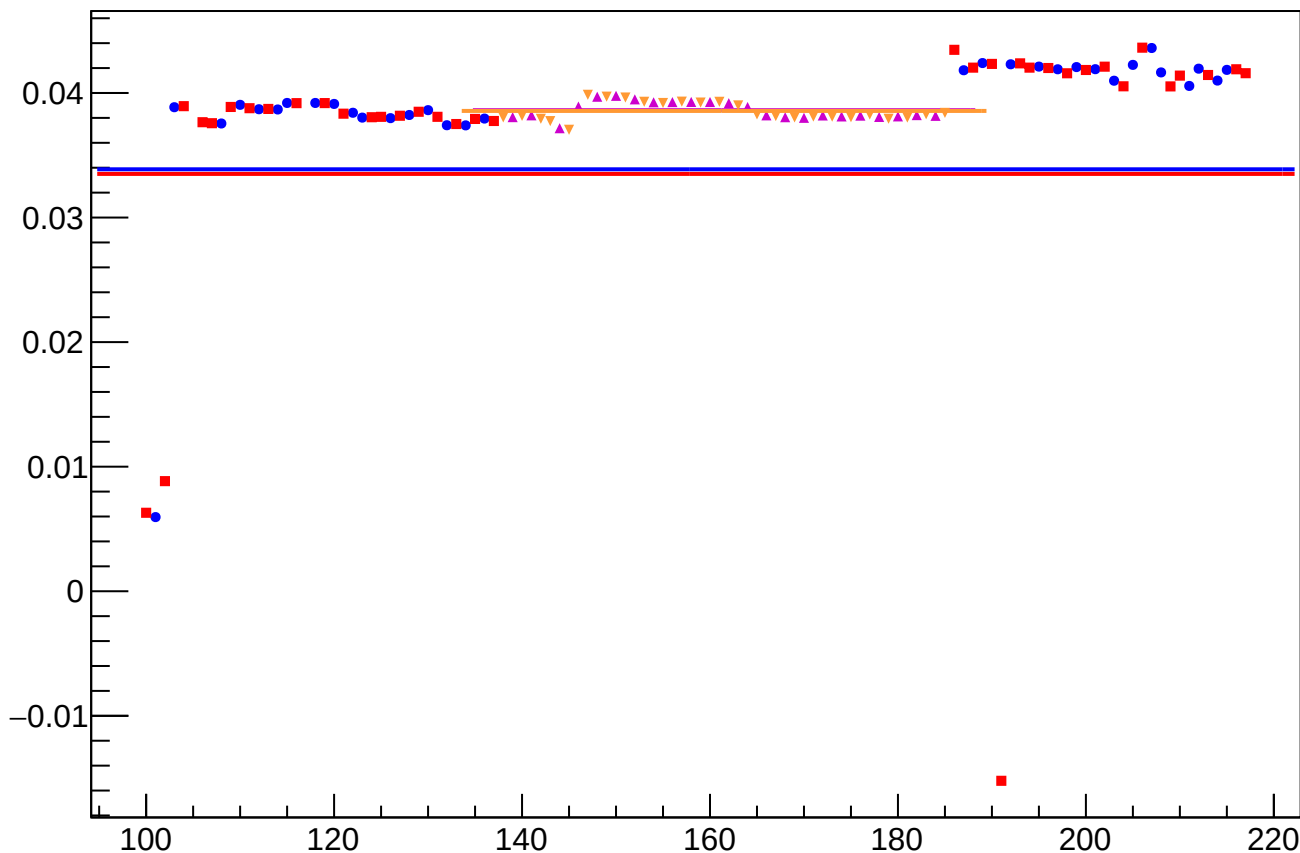
Right: 0.000+/-0.000 χ^2/NDF : 23289220.1/67

In: 0.000+/-0.000 χ^2/NDF :13737799.4/54

Out: 0.000+/-0.000 χ^2/NDF :33055602.4/60

All: 0.000+/-0.000 χ^2/NDF : 53597547.9/115

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 120712556964.6/31

Left Out: 0.039+/-0.000 χ^2/NDF : 539468437.3/24

Right Out: 0.034+/-0.000 χ^2/NDF : 186794401655.2/35

Left In: 0.039+/-0.000 χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000 χ^2/NDF : 1007039623.8/47

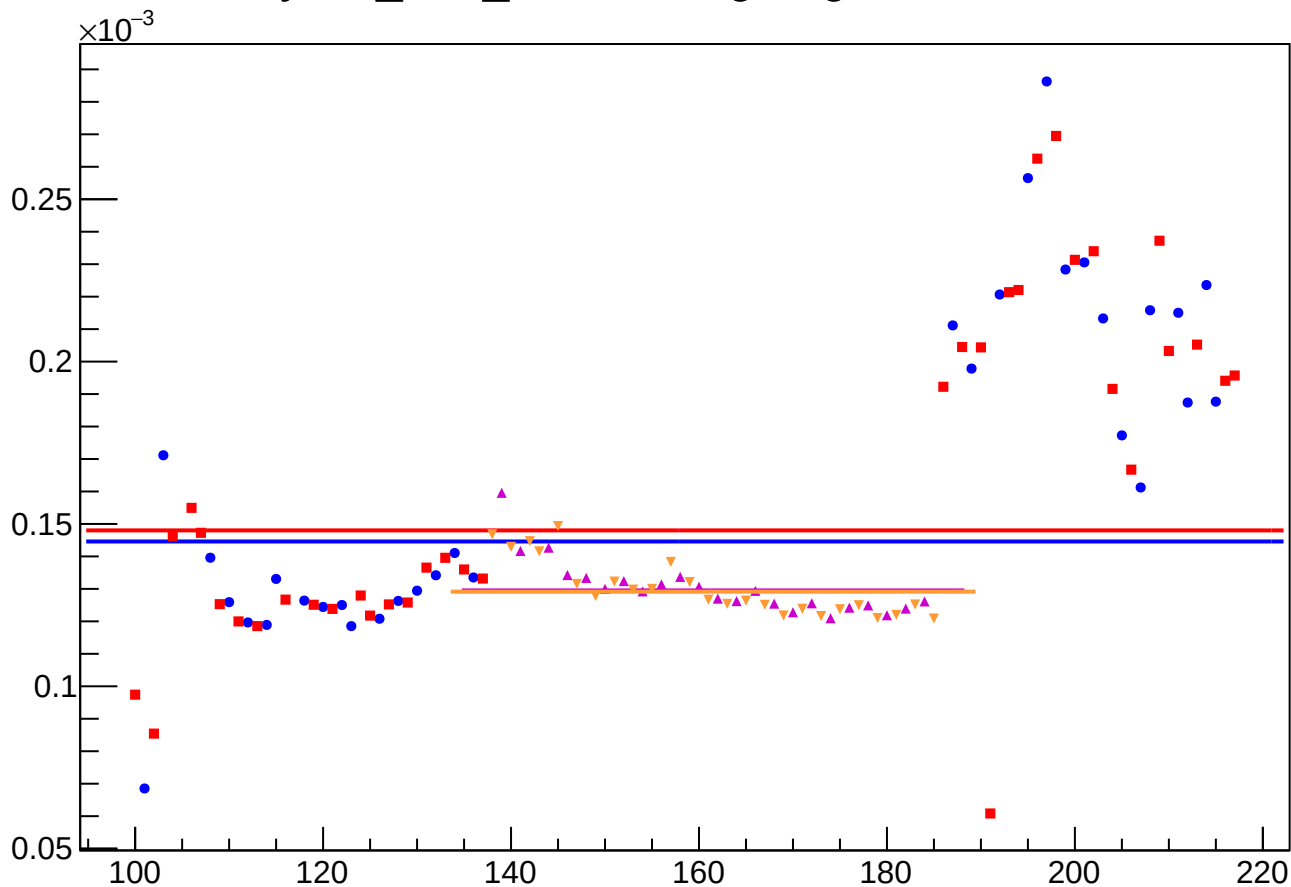
Right: 0.034+/-0.000 χ^2/NDF : 307556570400.7/67

In: 0.037+/-0.000 χ^2/NDF : 130579650378.8/54

Out: 0.037+/-0.000 χ^2/NDF : 198492753998.8/60

All: 0.037+/-0.000 χ^2/NDF : 329093697403.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3880438.6/31

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3684234.0/35

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

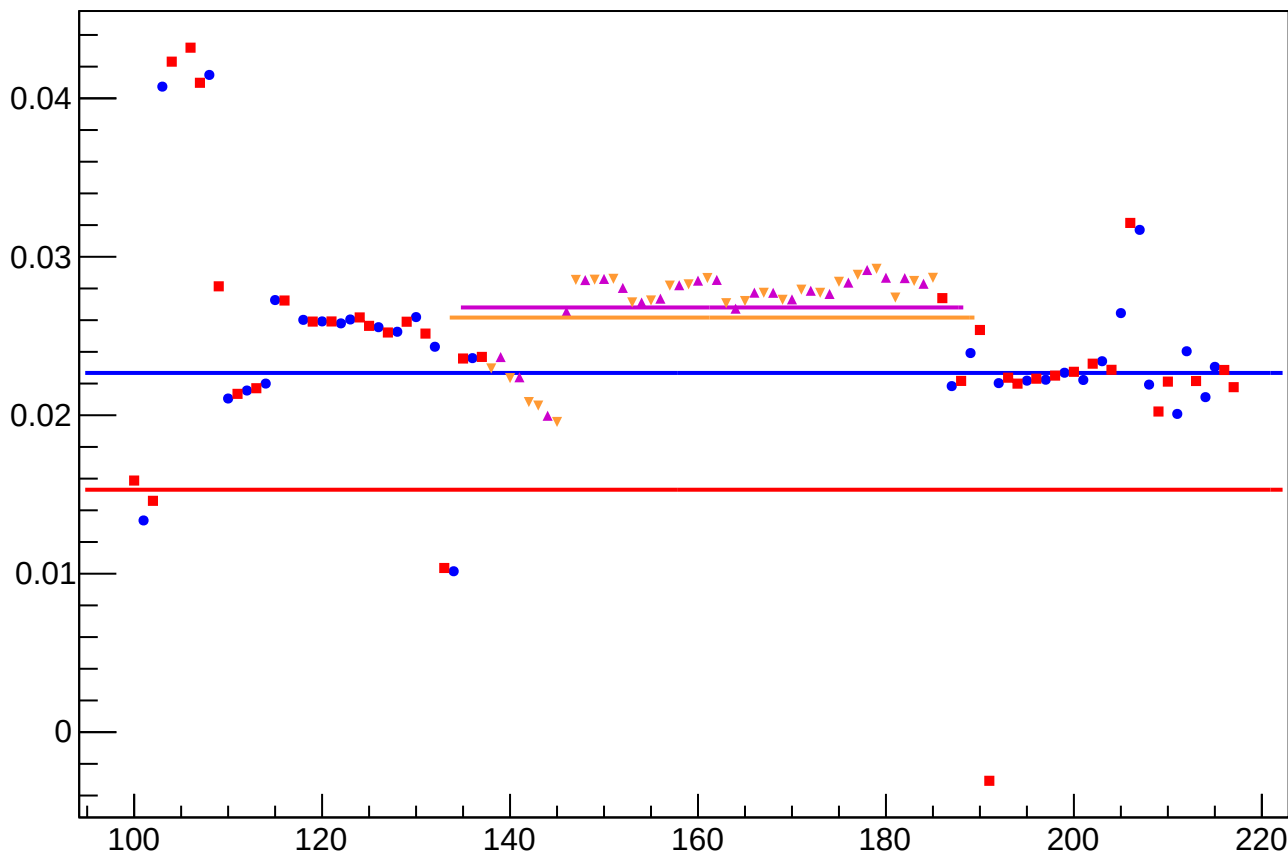
Right: 0.000+/-0.000 χ^2/NDF : 7573061.3/67

In: 0.000+/-0.000 χ^2/NDF :4184899.6/54

Out: 0.000+/-0.000 χ^2/NDF :4125081.1/60

All: 0.000+/-0.000 χ^2/NDF : 8311959.8/115

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4428133353.4/31

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31984217947.2/35

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

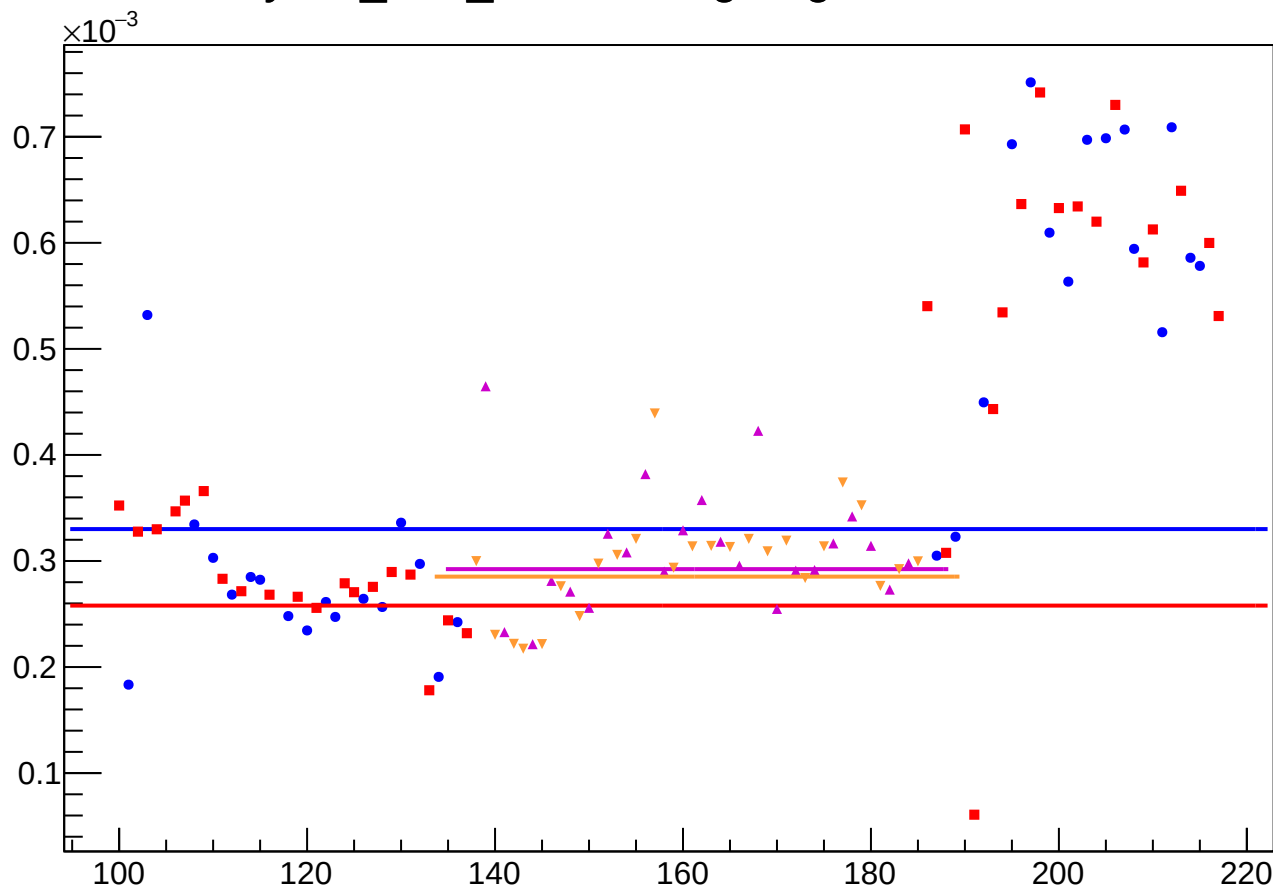
Right: 0.018+/-0.000 χ^2/NDF : 40291094859.5/67

In: 0.025+/-0.000 χ^2/NDF : 7006891052.4/54

Out: 0.021+/-0.000 χ^2/NDF : 45084875462.0/60

All: 0.023+/-0.000 χ^2/NDF : 54858364975.6/131

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5884314.8/31

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11203878.0/35

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

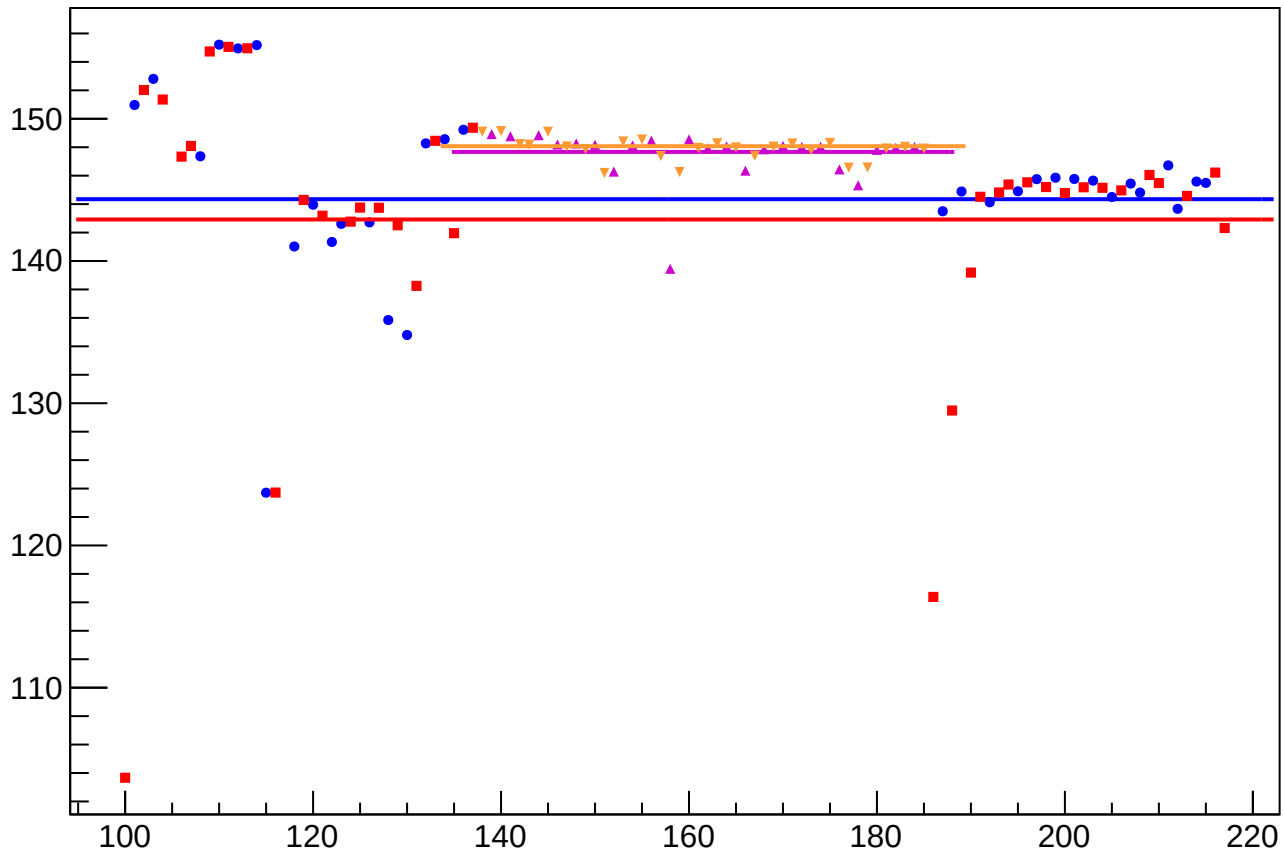
Right: 0.000+/-0.000 χ^2/NDF : 17831512.3/67

In: 0.000+/-0.000 χ^2/NDF :6991232.9/54

Out: 0.000+/-0.000 χ^2/NDF :12157044.7/60

All: 0.000+/-0.000 χ^2/NDF : 19553885.3/115

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.347 $\pm$ 0.000 χ^2 /NDF: 3509157460.7/31

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.920 $\pm$ 0.000 χ^2 /NDF: 7470617842.4/35

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

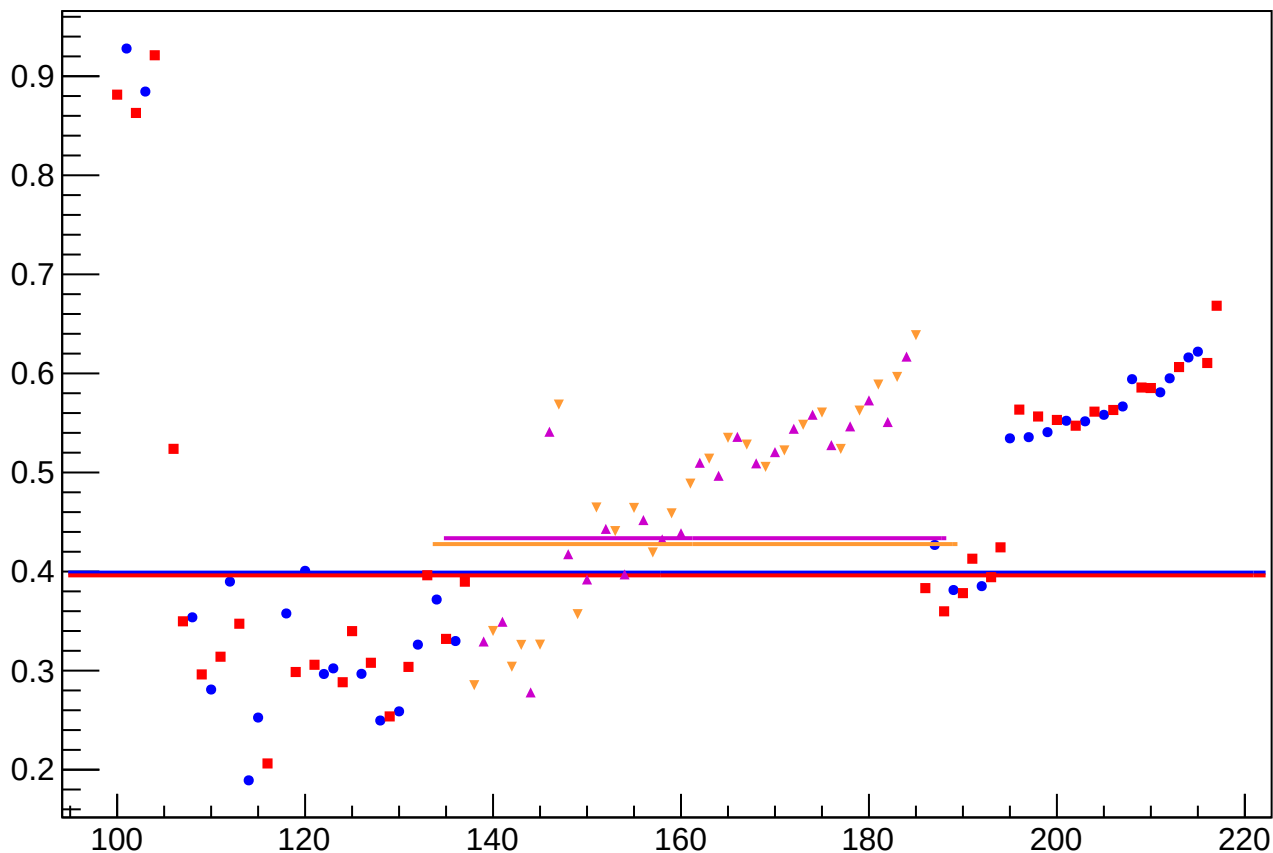
Right: 143.596 $\pm$ 0.000 χ^2 /NDF: 11078715545.6/67

In: 145.954 $\pm$ 0.000 χ^2 /NDF: 4347582800.6/54

Out: 145.368 $\pm$ 0.000 χ^2 /NDF: 8829593180.0/60

All: 145.648 $\pm$ 0.000 χ^2 /NDF: 13209207545.6/118

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 3610431.8/31

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.396 $\pm$ 0.000 χ^2 /NDF: 3525730.7/35

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3396308.8/47

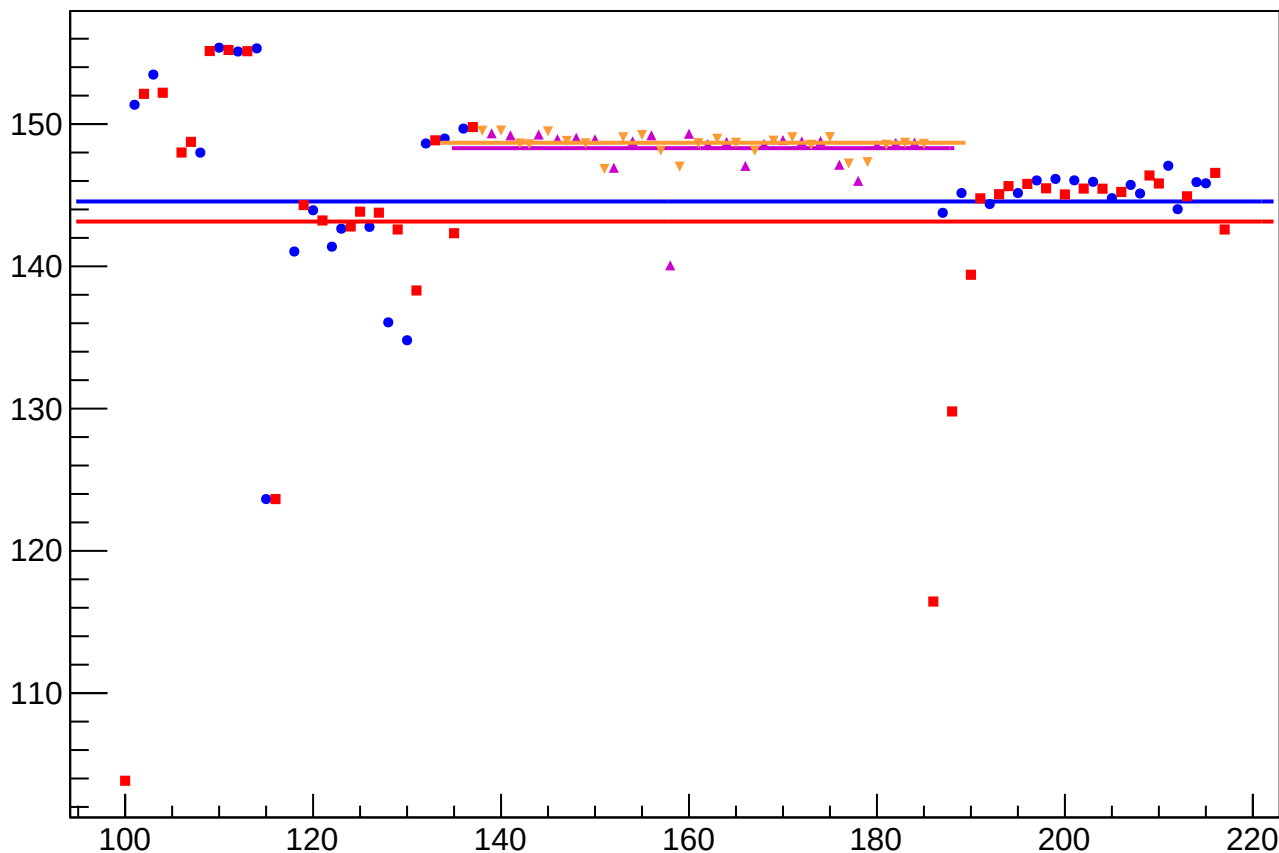
Right: 0.397 $\pm$ 0.000 χ^2 /NDF: 7136924.1/67

In: 0.416 $\pm$ 0.000 χ^2 /NDF:5214467.6/54

Out: 0.411 $\pm$ 0.000 χ^2 /NDF:5519730.1/60

All: 0.413 $\pm$ 0.000 χ^2 /NDF: 10738120.6/115

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.560 $\pm$ 0.000 χ^2 /NDF: 3560725520.9/31

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.149 $\pm$ 0.000 χ^2 /NDF: 7423340863.4/35

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

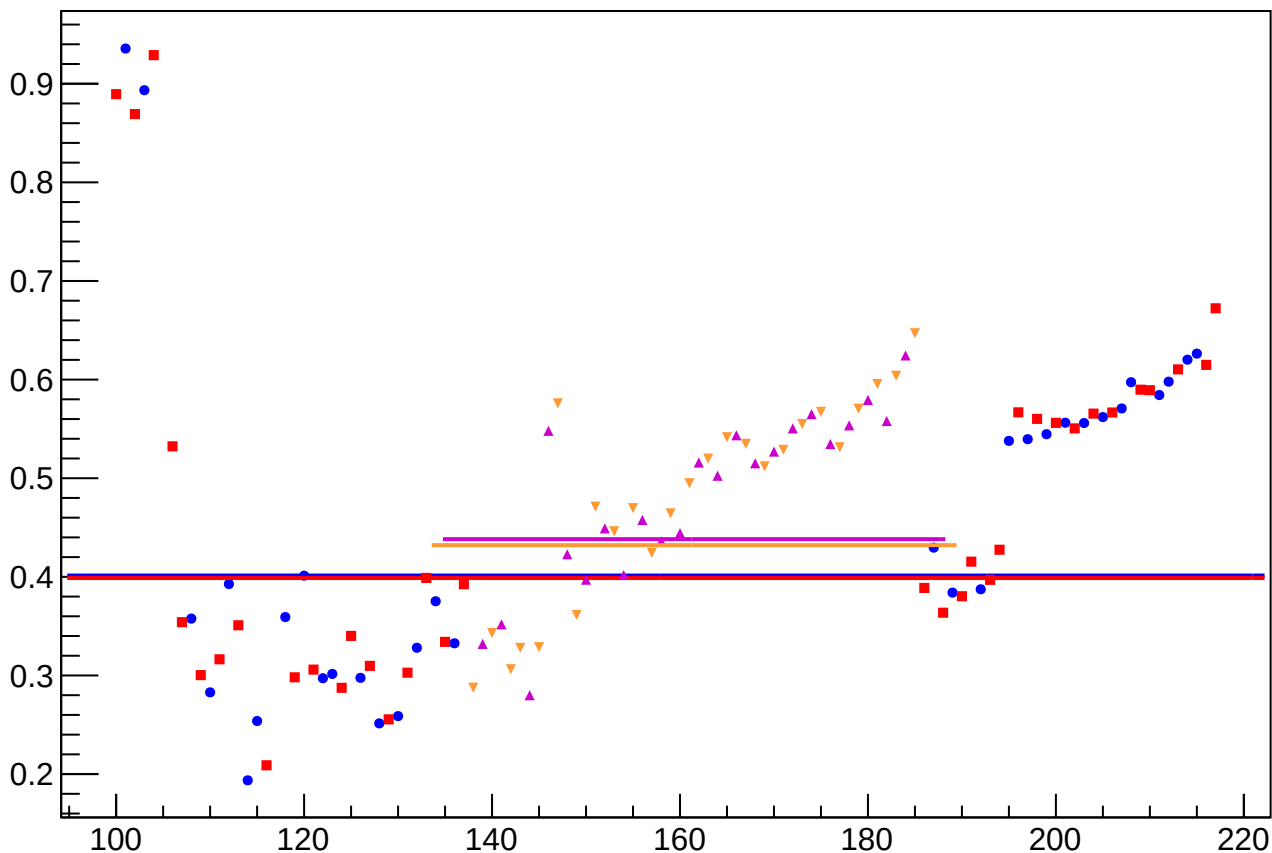
Right: 143.818 $\pm$ 0.000 χ^2 /NDF: 11079451150.4/67

In: 146.363 $\pm$ 0.000 χ^2 /NDF: 4510865417.5/54

Out: 145.769 $\pm$ 0.000 χ^2 /NDF: 8942608111.3/60

All: 146.053 $\pm$ 0.000 χ^2 /NDF: 13485845498.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.401 $\pm$ 0.000 χ^2 /NDF: 3618603.7/31

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.399 $\pm$ 0.000 χ^2 /NDF: 3529368.6/35

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1521893.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3454164.8/47

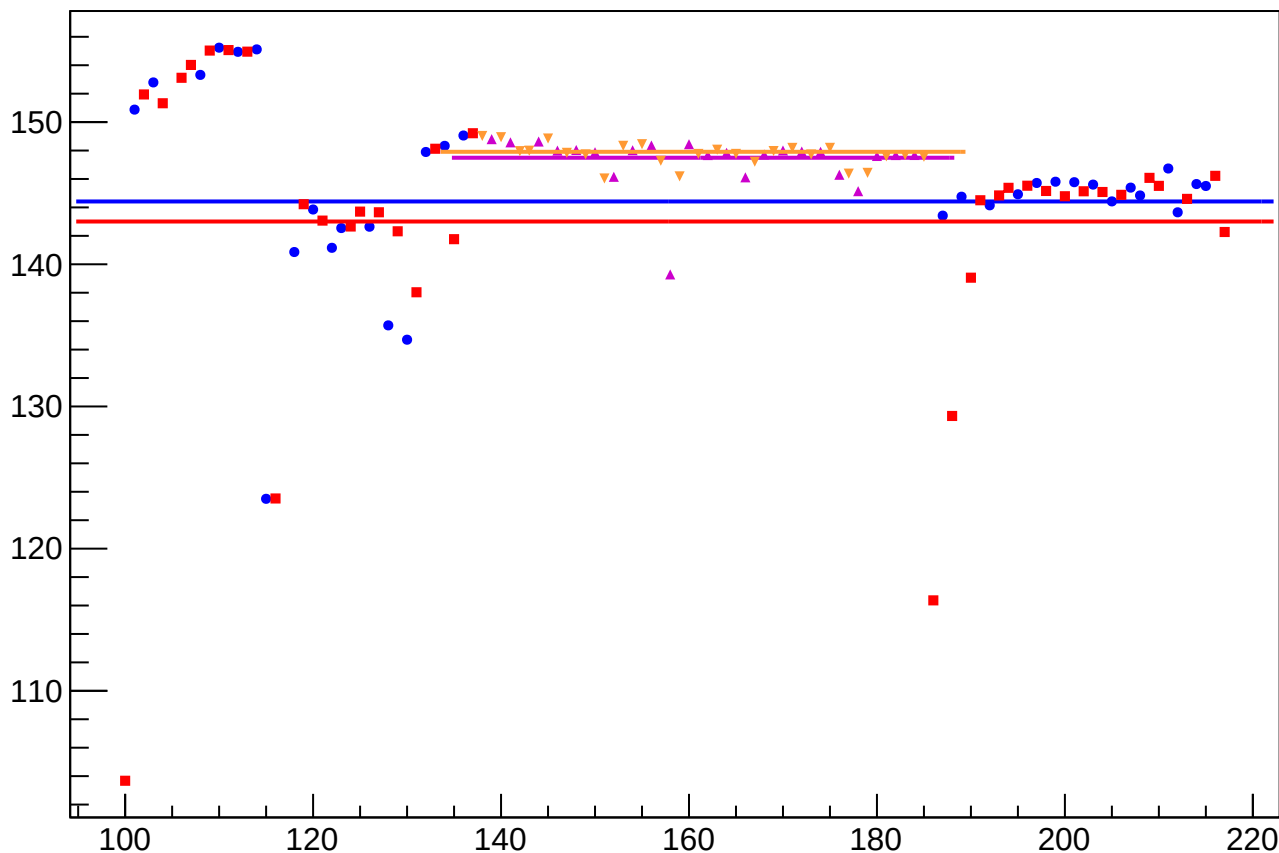
Right: 0.400 $\pm$ 0.000 χ^2 /NDF: 7148590.2/67

In: 0.419 $\pm$ 0.000 χ^2 /NDF:5259959.2/54

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:5564814.0/60

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 10828509.9/115

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.418 $\pm$ 0.000 χ^2 /NDF: 3714422350.6/31

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 143.008 $\pm$ 0.000 χ^2 /NDF: 7844049068.8/35

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

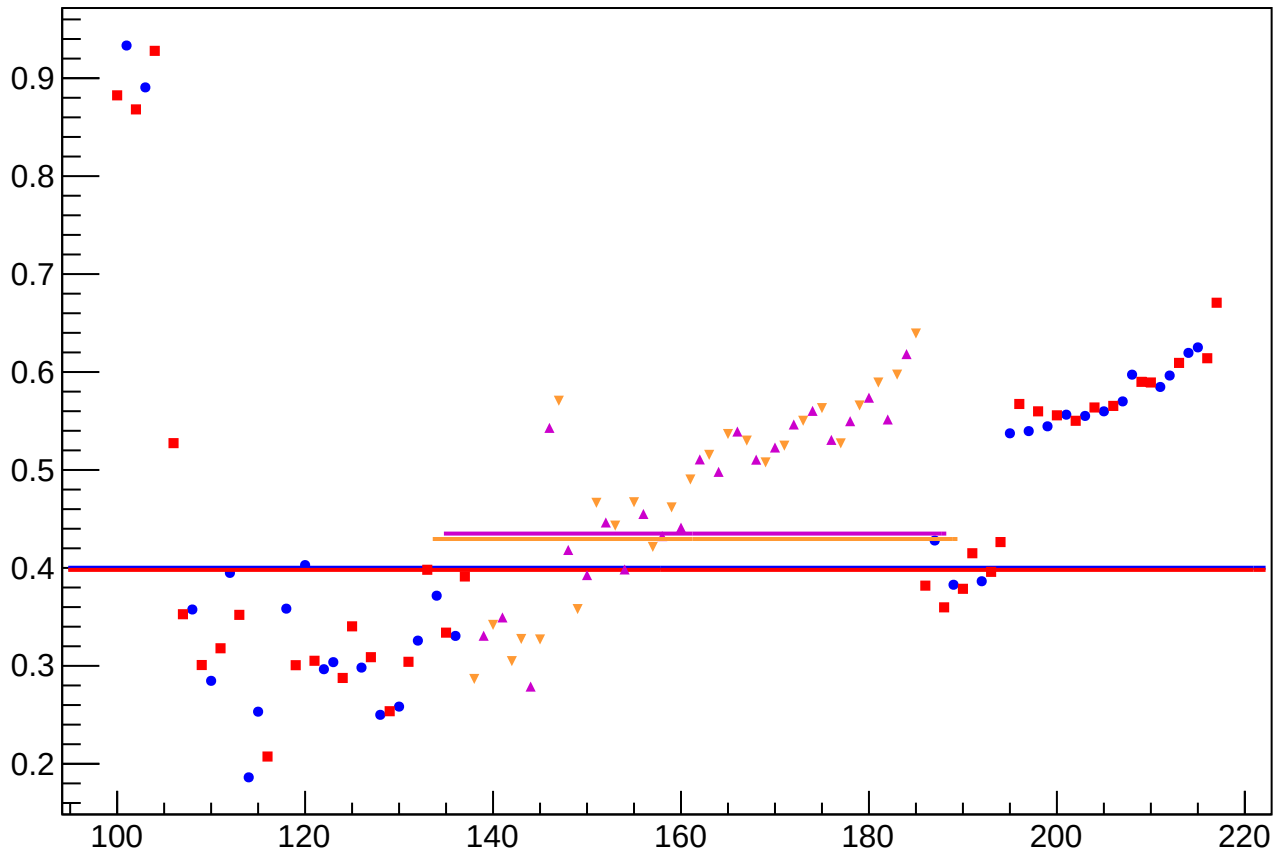
Right: 143.677 $\pm$ 0.000 χ^2 /NDF: 11654249282.2/67

In: 145.906 $\pm$ 0.000 χ^2 /NDF: 4477586971.2/54

Out: 145.339 $\pm$ 0.000 χ^2 /NDF: 9068852164.5/60

All: 145.610 $\pm$ 0.000 χ^2 /NDF: 13576222667.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.400 $\pm$ 0.000 χ^2 /NDF: 3649308.5/31

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 3532631.6/35

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

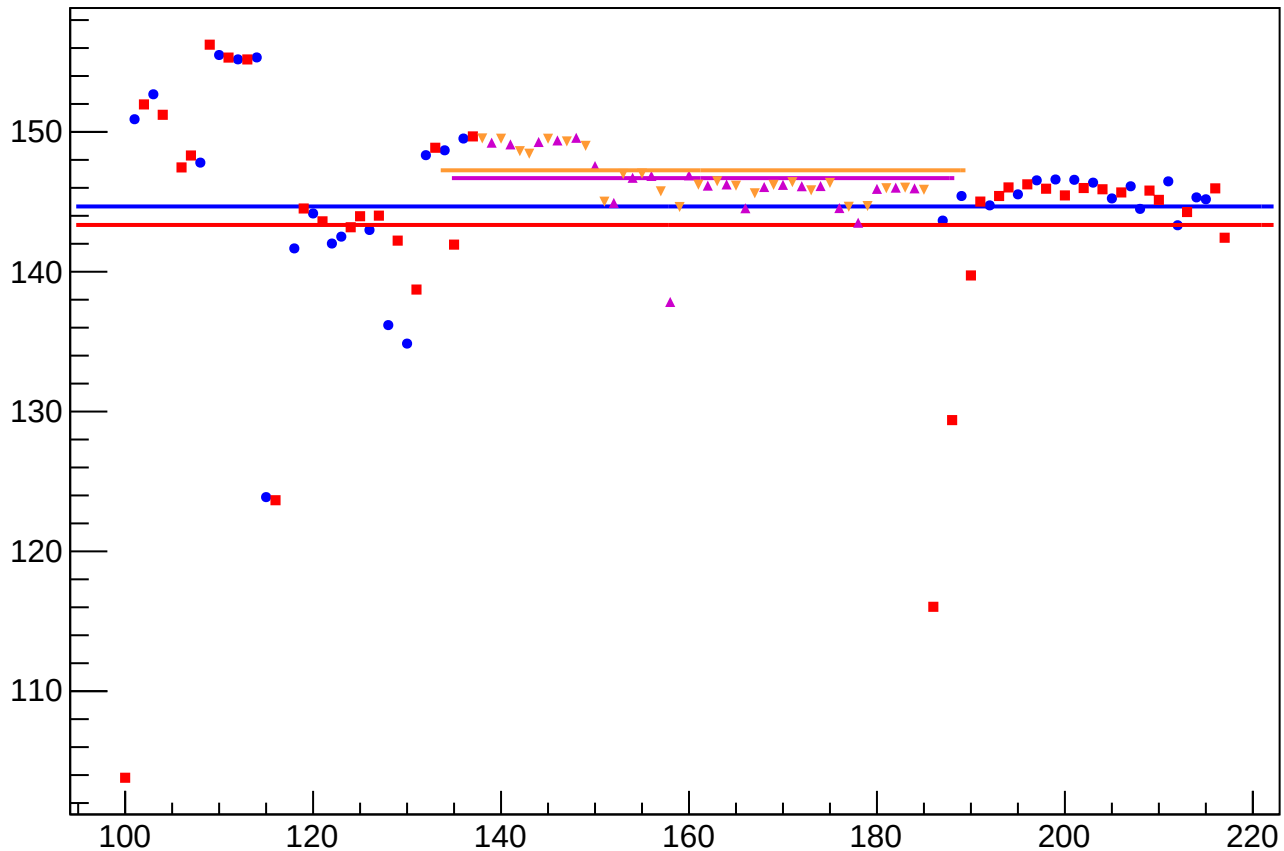
Right: 0.399 $\pm$ 0.000 χ^2 /NDF: 7182404.6/67

In: 0.417 $\pm$ 0.000 χ^2 /NDF:5259852.5/54

Out: 0.413 $\pm$ 0.000 χ^2 /NDF:5524346.1/60

All: 0.415 $\pm$ 0.000 χ^2 /NDF: 10787277.7/115

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.669 $\pm$ 0.000 χ^2 /NDF: 3233667722.6/31

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.346 $\pm$ 0.000 χ^2 /NDF: 7156401888.7/35

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

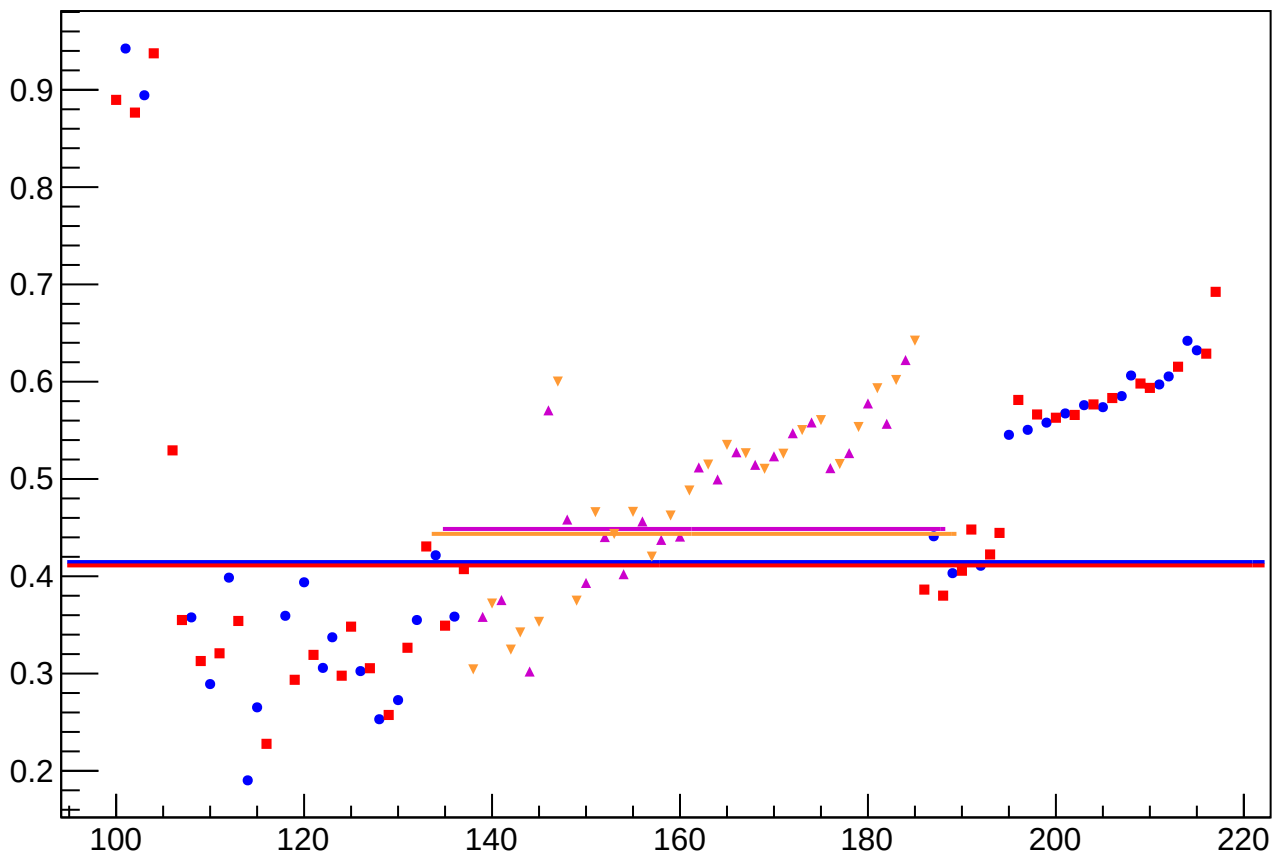
Right: 143.972 $\pm$ 0.000 χ^2 /NDF: 10468846156.4/67

In: 145.659 $\pm$ 0.000 χ^2 /NDF: 3962948092.2/54

Out: 145.214 $\pm$ 0.000 χ^2 /NDF: 8113160621.6/60

All: 145.427 $\pm$ 0.000 χ^2 /NDF: 12093337256.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.415 $\pm$ 0.000 χ^2 /NDF: 3527324.0/31

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.411 $\pm$ 0.000 χ^2 /NDF: 3421792.7/35

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

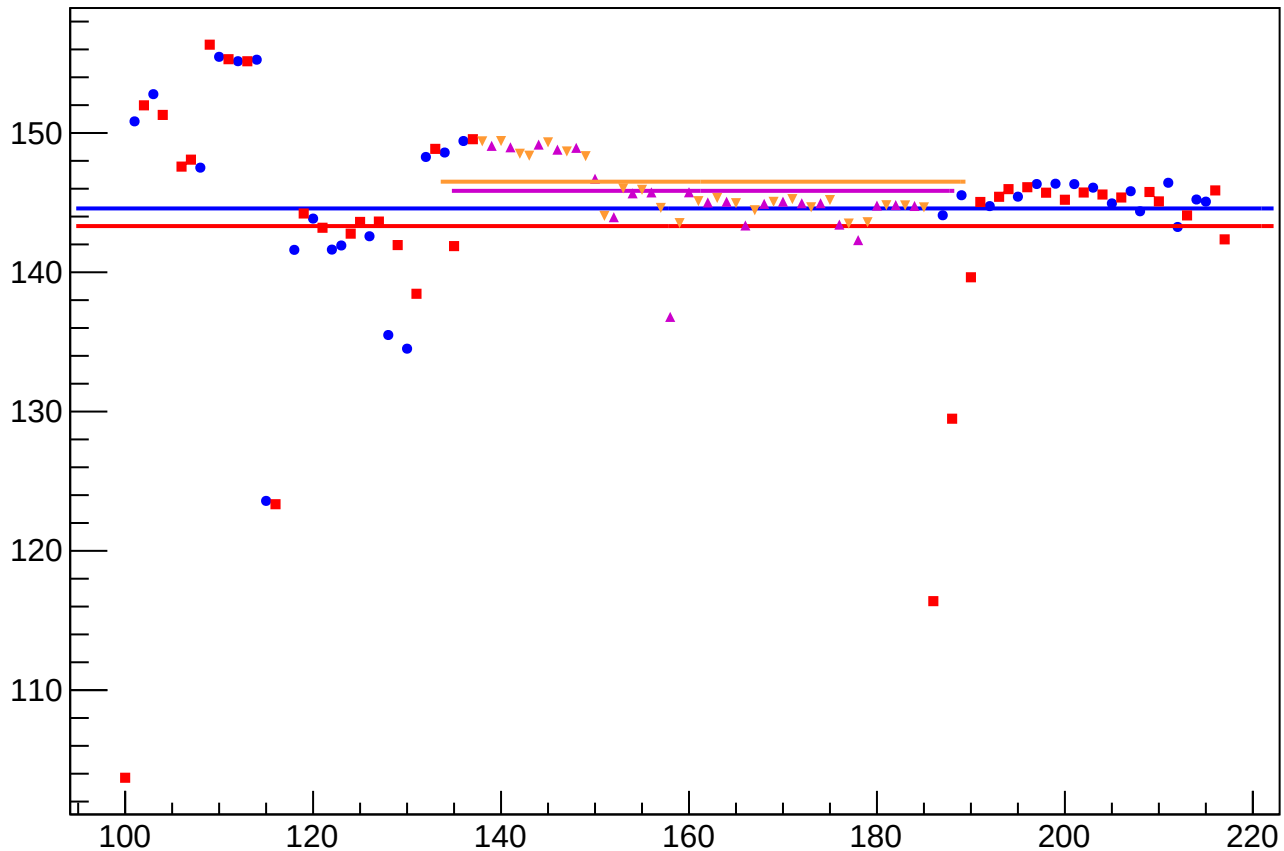
Right: 0.413 $\pm$ 0.000 χ^2 /NDF: 6950188.6/67

In: 0.431 $\pm$ 0.000 χ^2 /NDF:4756635.7/54

Out: 0.427 $\pm$ 0.000 χ^2 /NDF:5000865.1/60

All: 0.429 $\pm$ 0.000 χ^2 /NDF: 9761150.9/115

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.583 $\pm$ 0.000 χ^2/NDF : 3343499335.4/31

Left Out: 146.505 $\pm$ 0.000 χ^2/NDF : 401688176.3/24

Right Out: 143.317 $\pm$ 0.000 χ^2/NDF : 7108165070.2/35

Left In: 145.847 $\pm$ 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2/NDF : 1114638549.0/47

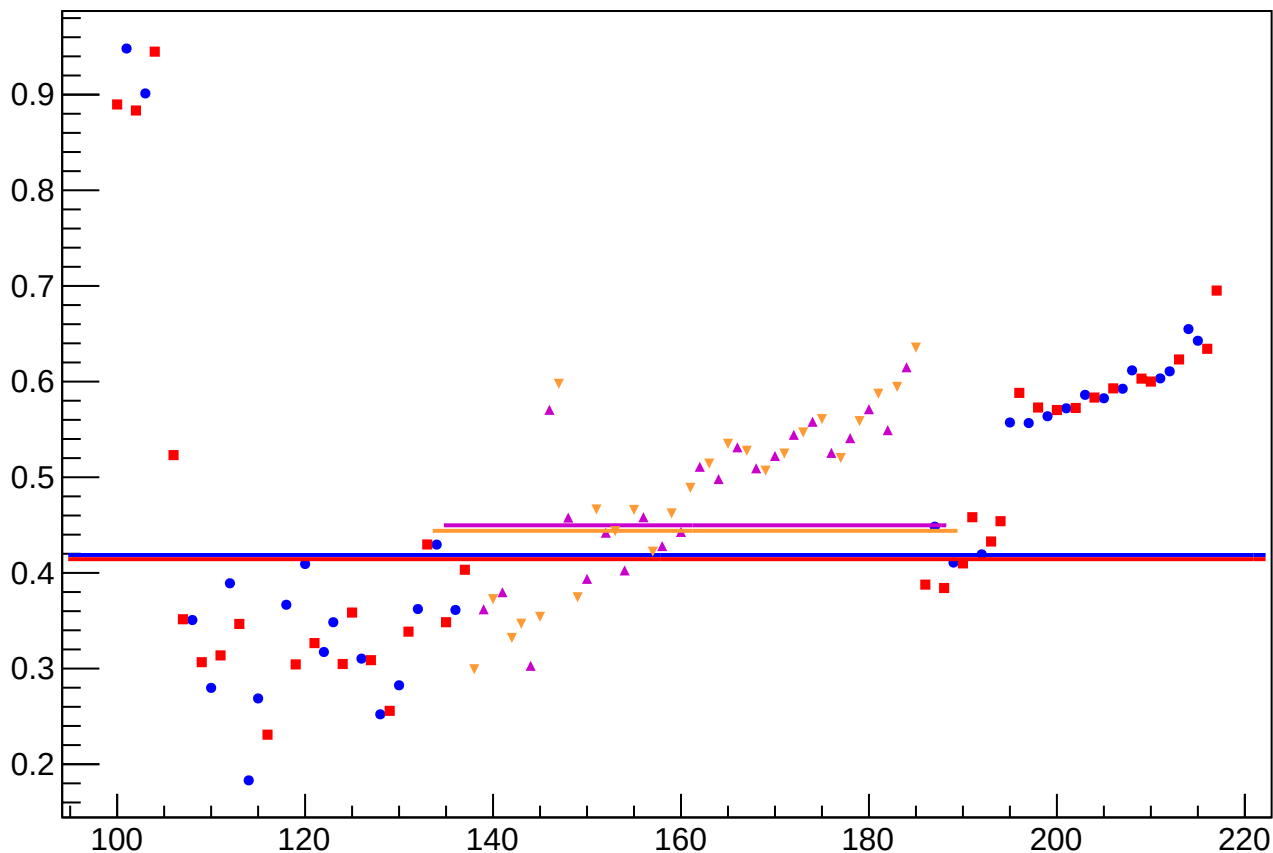
Right: 143.914 $\pm$ 0.000 χ^2/NDF : 10522281994.0/67

In: 145.206 $\pm$ 0.000 χ^2/NDF : 4103951444.8/54

Out: 144.854 $\pm$ 0.000 χ^2/NDF : 7967212073.2/60

All: 145.022 $\pm$ 0.000 χ^2/NDF : 12081839143.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.419+/-0.000 χ^2/NDF : 3584431.0/31

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.414+/-0.000 χ^2/NDF : 3454792.8/35

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

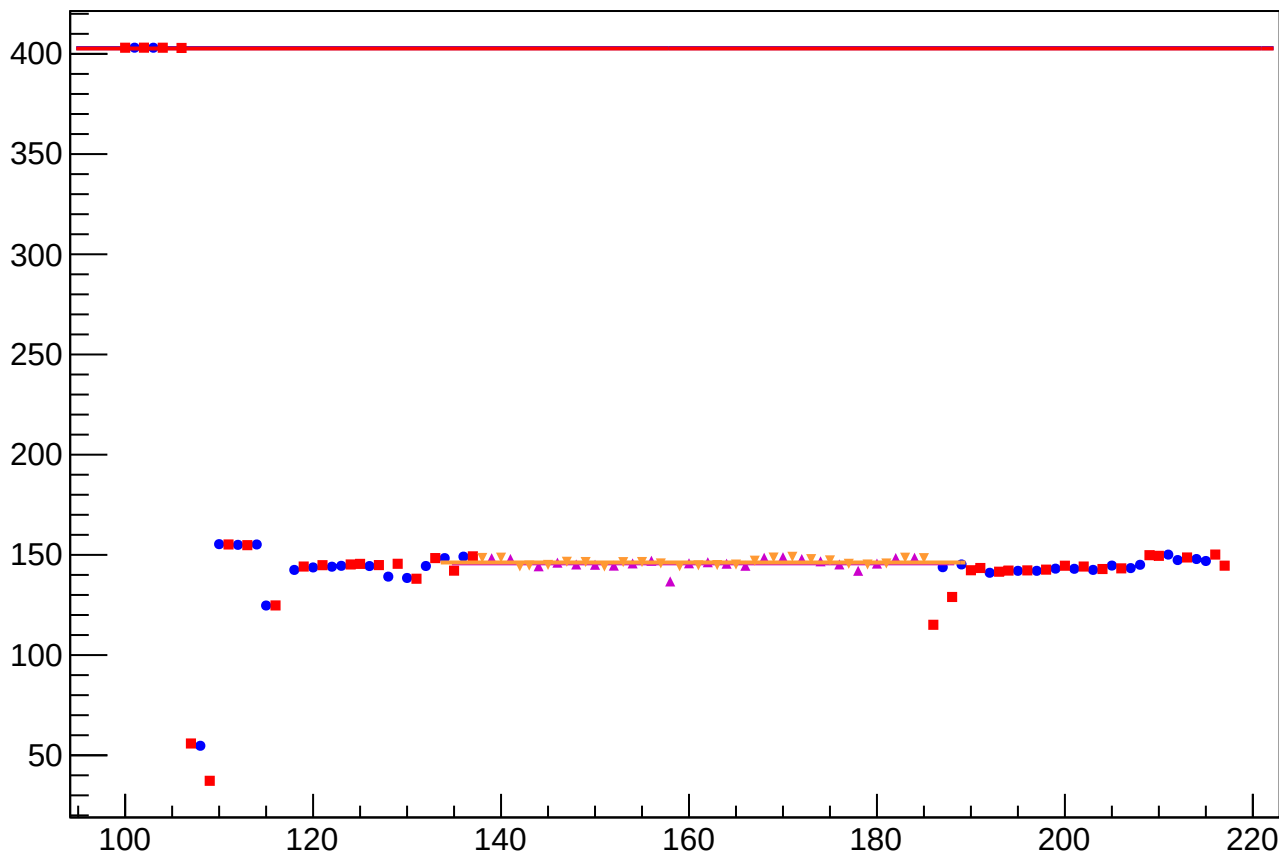
Right: 0.416+/-0.000 χ^2/NDF : 7040885.5/67

In: 0.434+/-0.000 χ^2/NDF :4769157.0/54

Out: 0.429+/-0.000 χ^2/NDF :4997093.9/60

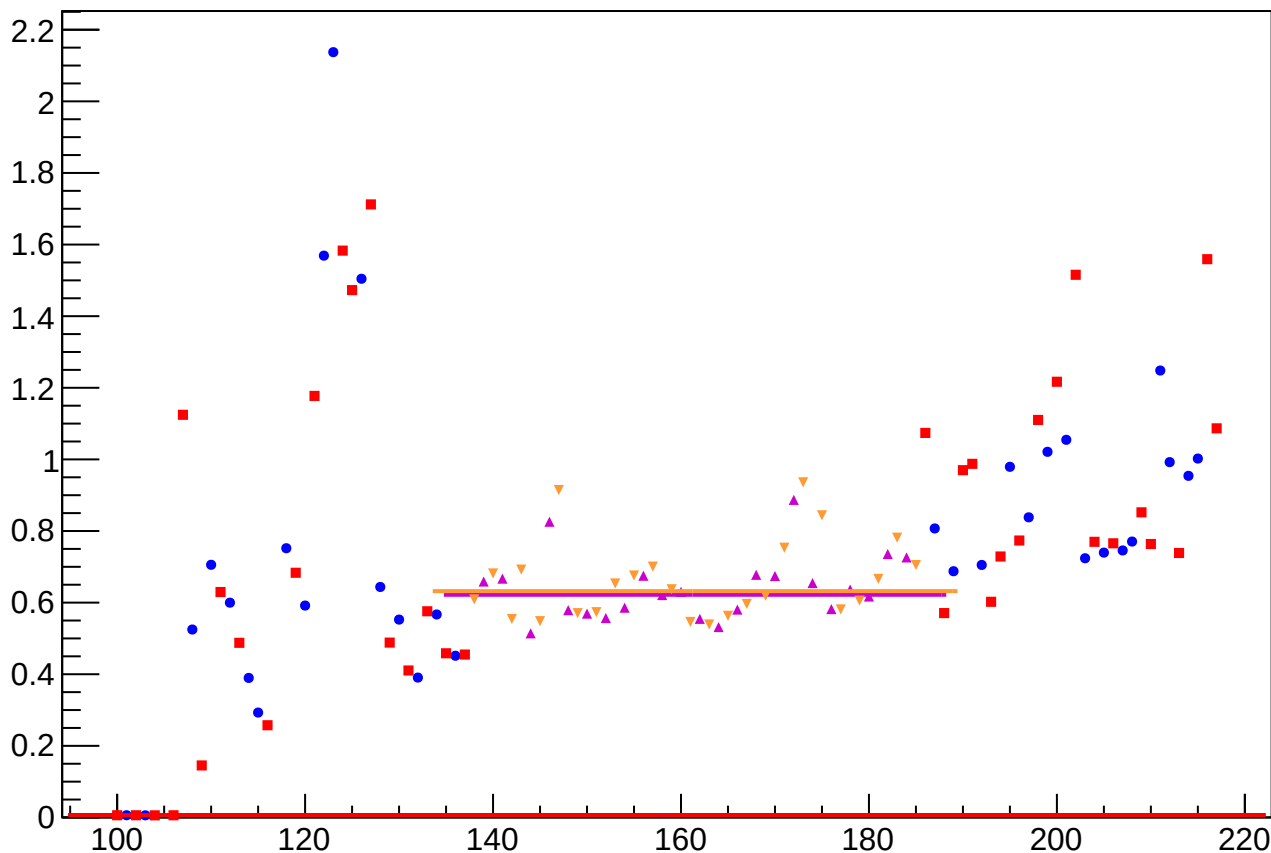
All: 0.431+/-0.000 χ^2/NDF : 9771214.2/115

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.860 $\pm$ 0.000 χ^2 /NDF: 1881468678403.3/31
 Left Out: 146.205 $\pm$ 0.000 χ^2 /NDF: 86658381.3/24
 Right Out: 402.688 $\pm$ 0.000 χ^2 /NDF: 4122498786779.9/35
 Left In: 145.773 $\pm$ 0.000 χ^2 /NDF: 207332354.9/22
 Left: 145.990 $\pm$ 0.000 χ^2 /NDF: 297342055.1/47
 Right: 402.769 $\pm$ 0.000 χ^2 /NDF: 6004456623758.4/31
 In: 402.567 $\pm$ 0.000 χ^2 /NDF: 4229719640713.8/54
 Out: 402.426 $\pm$ 0.000 χ^2 /NDF: 6489837378402.2/6
 All: 402.492 $\pm$ 0.000 χ^2 /NDF: 107198839397.9/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 25814600.6/31

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 28964289.7/35

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

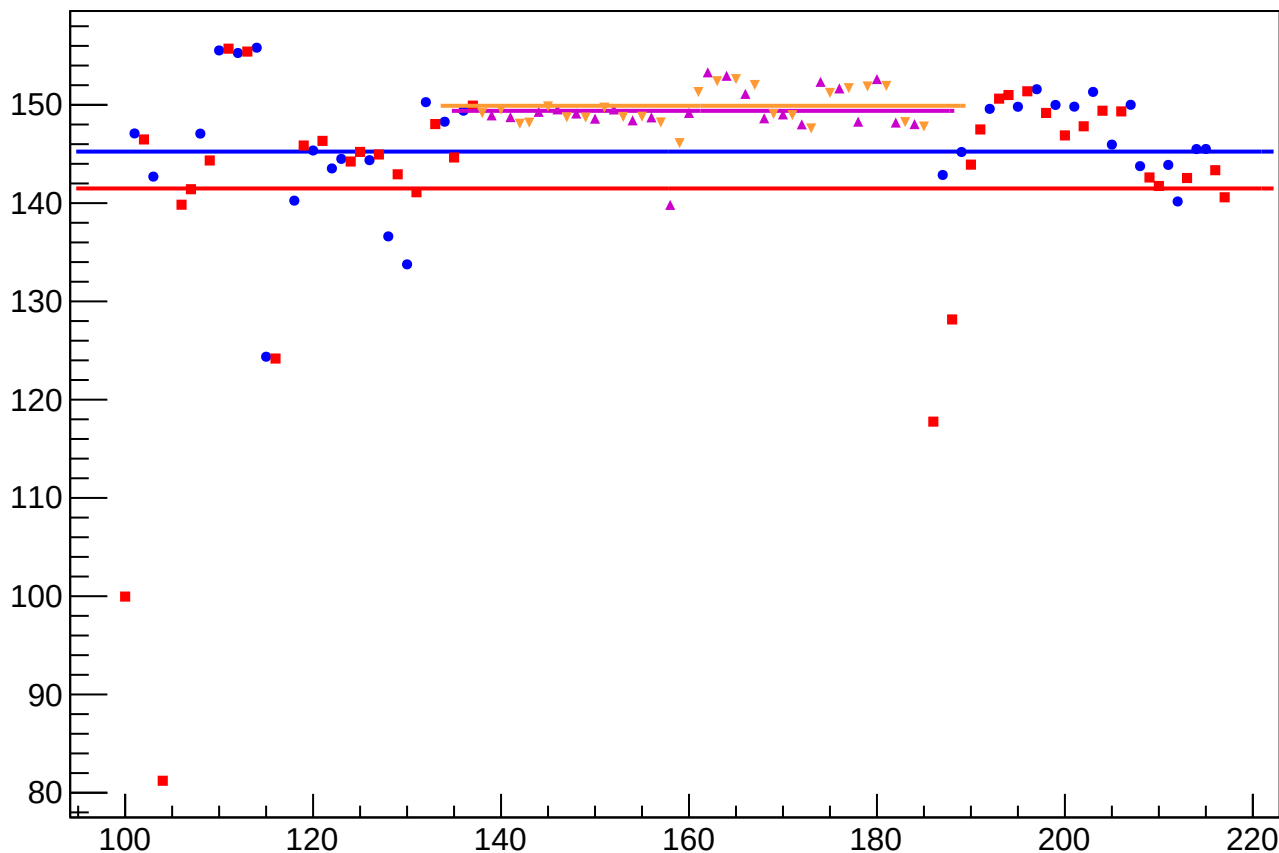
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 54778893.1/67

In: 0.007 $\pm$ 0.000 χ^2 /NDF:53117841.1/54

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:57732737.2/60

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 110850675.9/115

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.244+/-0.000 χ^2/NDF : 1360347977.0/31

Left Out: 149.906+/-0.000 χ^2/NDF : 163261802.4/24

Right Out: 141.491+/-0.000 χ^2/NDF : 3254164238.2/35

Left In: 149.391+/-0.000 χ^2/NDF : 437129920.4/22

Left: 149.657+/-0.000 χ^2/NDF : 606930259.3/47

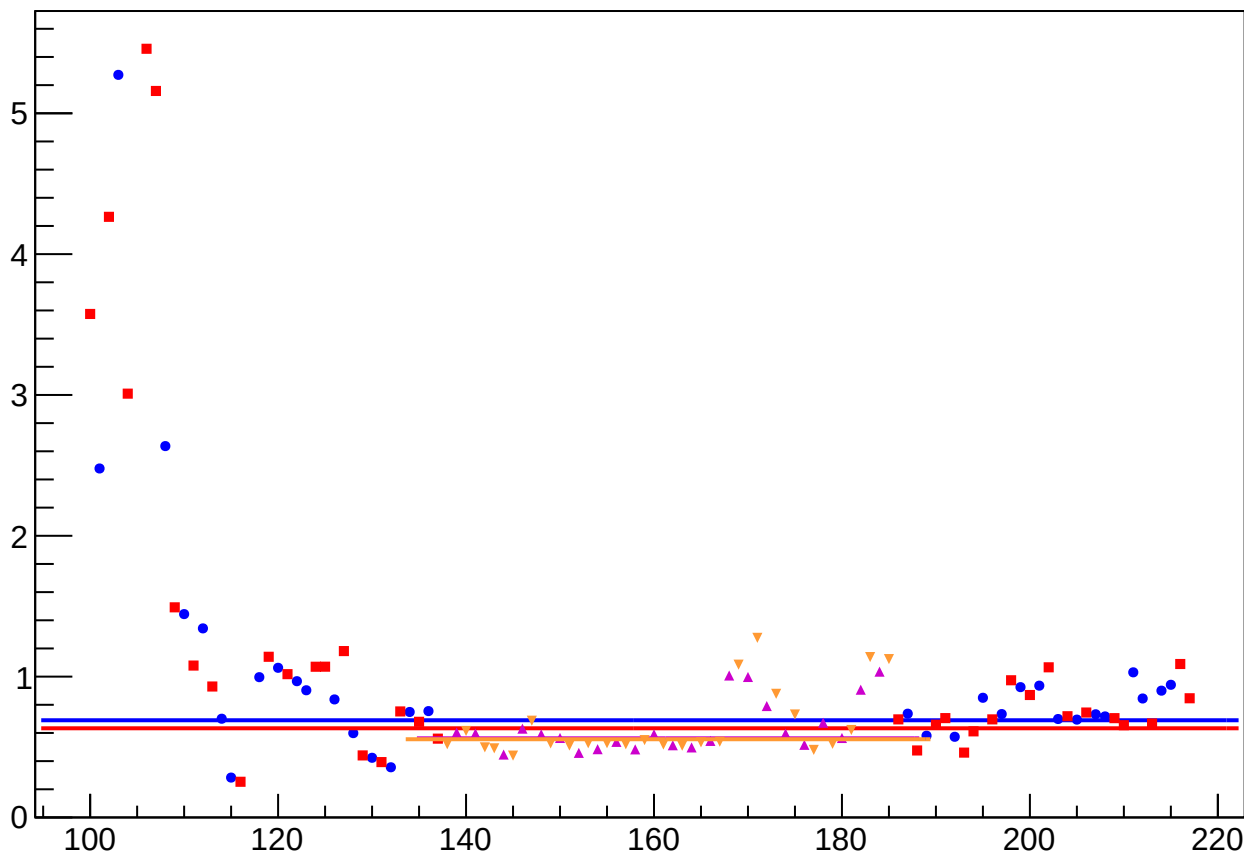
Right: 143.137+/-0.000 χ^2/NDF : 4814997422.5/67

In: 147.950+/-0.000 χ^2/NDF : 2081870297.8/54

Out: 146.629+/-0.000 χ^2/NDF : 4821413569.1/60

All: 147.245+/-0.000 χ^2/NDF : 6971096945.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.690 $\pm$ 0.000 χ^2/NDF : 4343199.5/31

Left Out: 0.555 $\pm$ 0.000 χ^2/NDF : 1773380.1/24

Right Out: 0.633 $\pm$ 0.000 χ^2/NDF : 5911555.5/35

Left In: 0.562 $\pm$ 0.000 χ^2/NDF : 1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2/NDF : 3086646.6/47

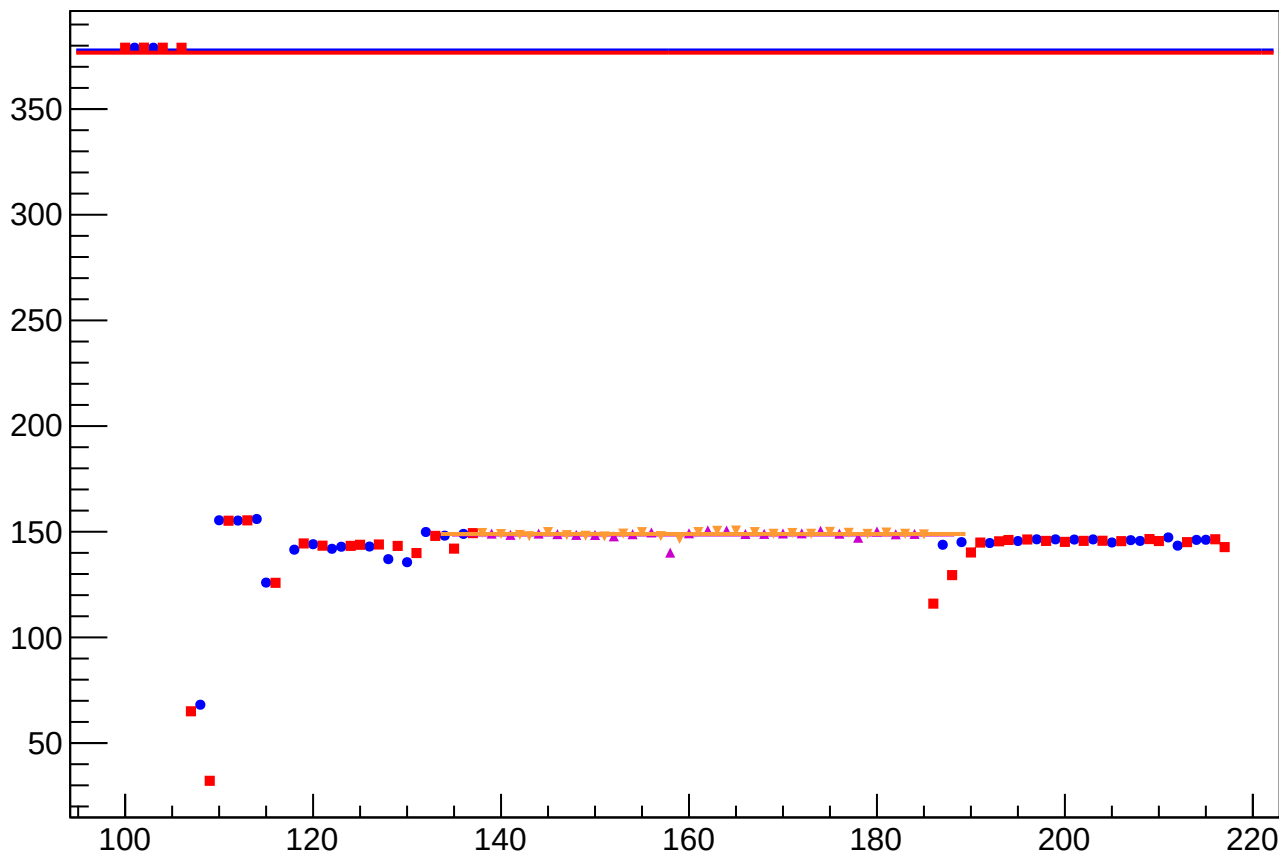
Right: 0.658 $\pm$ 0.000 χ^2/NDF : 10347457.0/67

In: 0.607 $\pm$ 0.000 χ^2/NDF : 6197296.5/54

Out: 0.586 $\pm$ 0.000 χ^2/NDF : 7924566.7/60

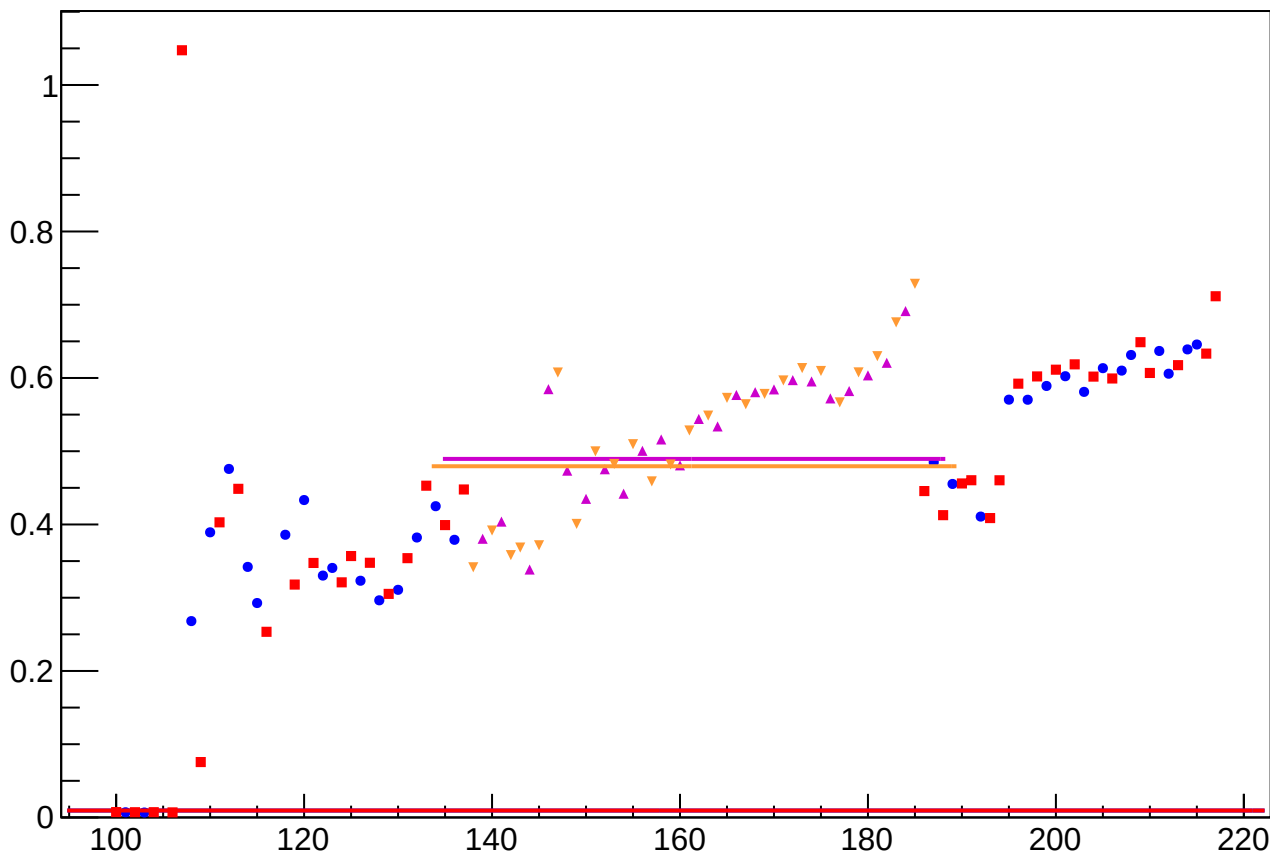
All: 0.595 $\pm$ 0.000 χ^2/NDF : 14155947.7/115

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.732+/-0.000	χ^2/NDF : 4213780838756.7/31	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.177+/-0.000	χ^2/NDF : 14643227157010.3
Right Out: 376.691+/-0.000	χ^2/NDF : 10421732523945.6/35	In: 376.556+/-0.000	χ^2/NDF : 7810658310371.6/54
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.576+/-0.000	χ^2/NDF : 14285591359080.3
		All: 376.034+/-0.000	χ^2/NDF : 221031093298.3

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 29760637.4/31

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 31502197.8/35

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

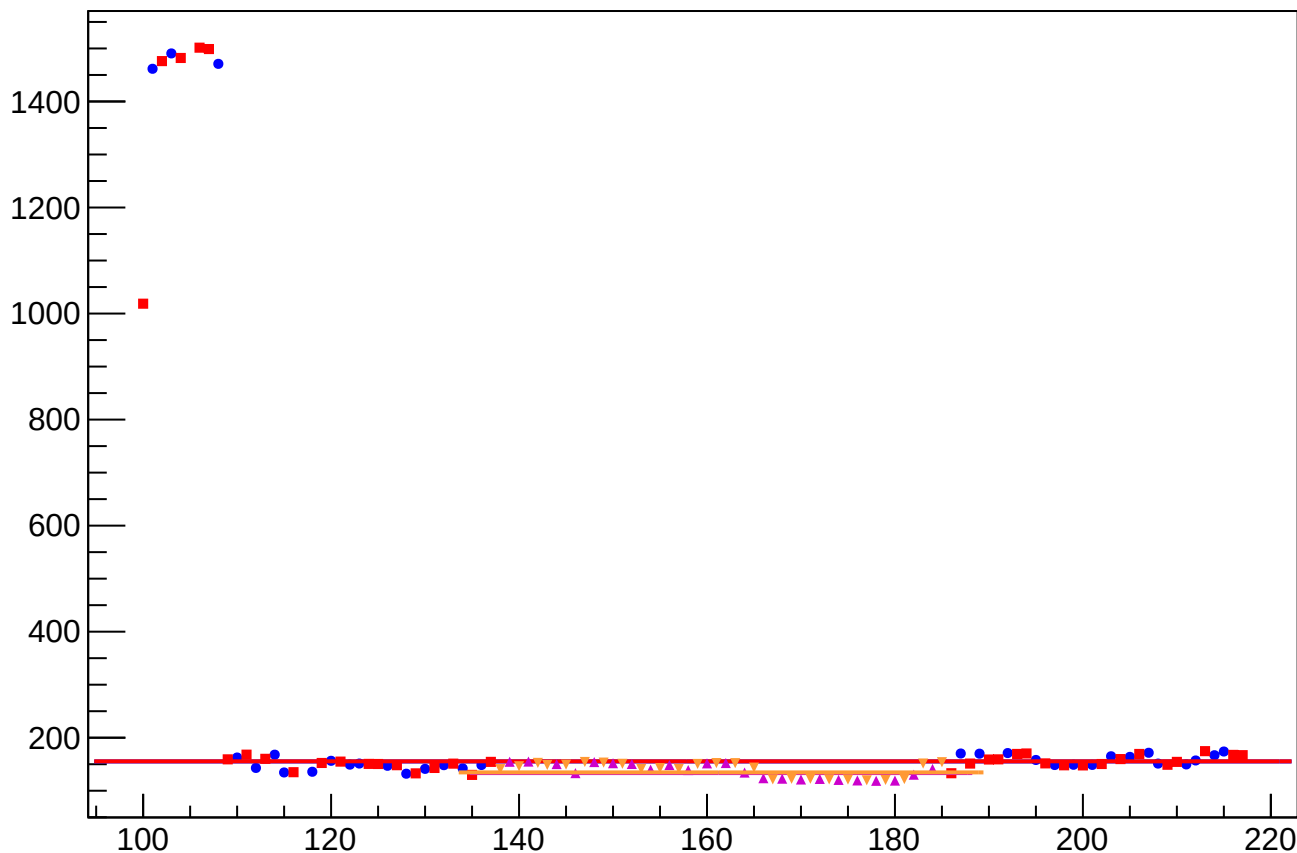
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 61262853.4/67

In: 0.012 $\pm$ 0.000 χ^2 /NDF:62451129.7/54

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:65934115.5/60

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 128385485.5/115

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.202+/-0.000 χ^2/NDF : 26161356800.4/31

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.491+/-0.000 χ^2/NDF : 35305015972.0/35

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

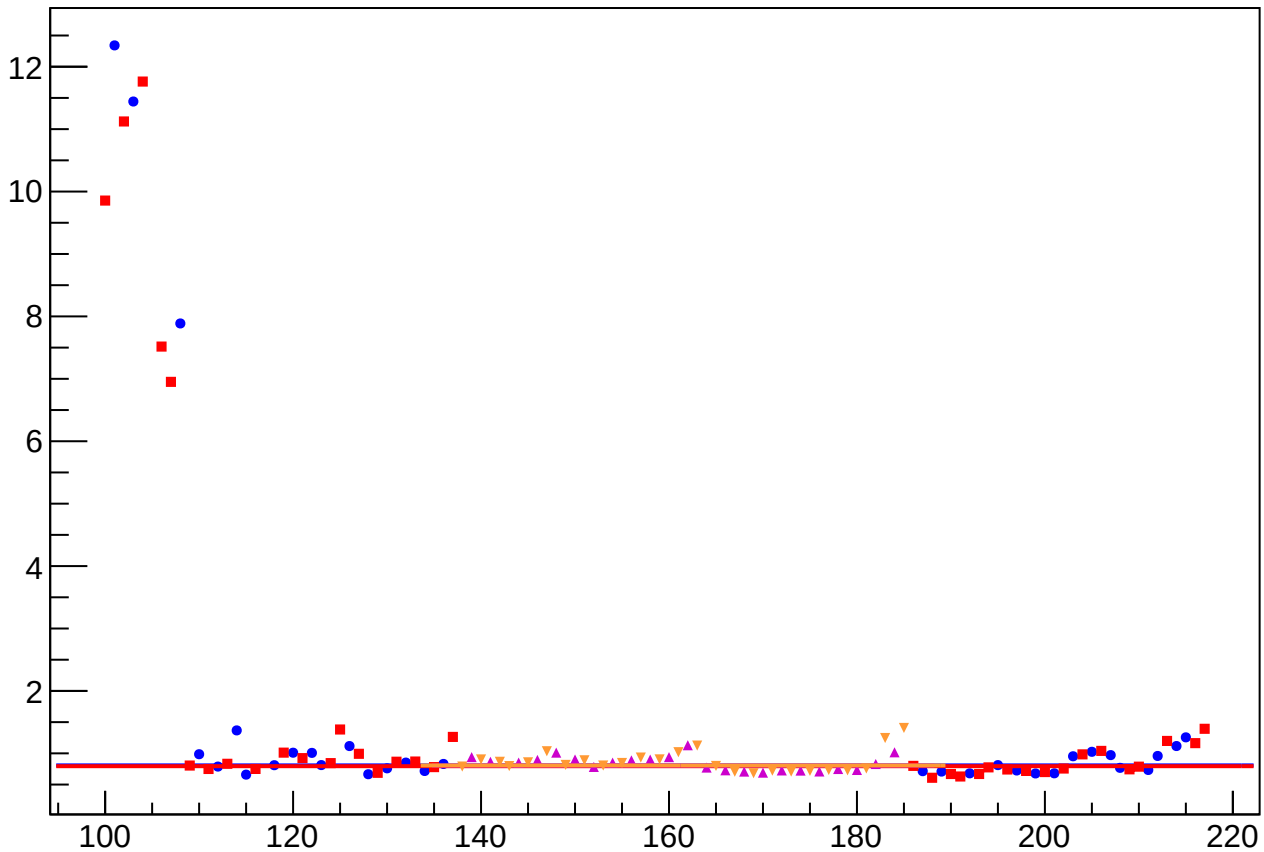
Right: 155.354+/-0.000 χ^2/NDF : 61467230966.1/67

In: 143.379+/-0.000 χ^2/NDF : 35573572193.8/54

Out: 144.555+/-0.000 χ^2/NDF : 44640611548.9/60

All: 143.986+/-0.000 χ^2/NDF : 80244496378.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.807 ± 0.000 $\chi^2/\text{NDF}: 3305869.1/31$

Left Out: 0.807 ± 0.000 $\chi^2/\text{NDF}: 704181.3/24$

Right Out: 0.794 ± 0.000 $\chi^2/\text{NDF}: 3800553.5/35$

Left In: 0.805 ± 0.000 $\chi^2/\text{NDF}: 479689.4/22$

Left: 0.806 ± 0.000 $\chi^2/\text{NDF}: 1183976.9/47$

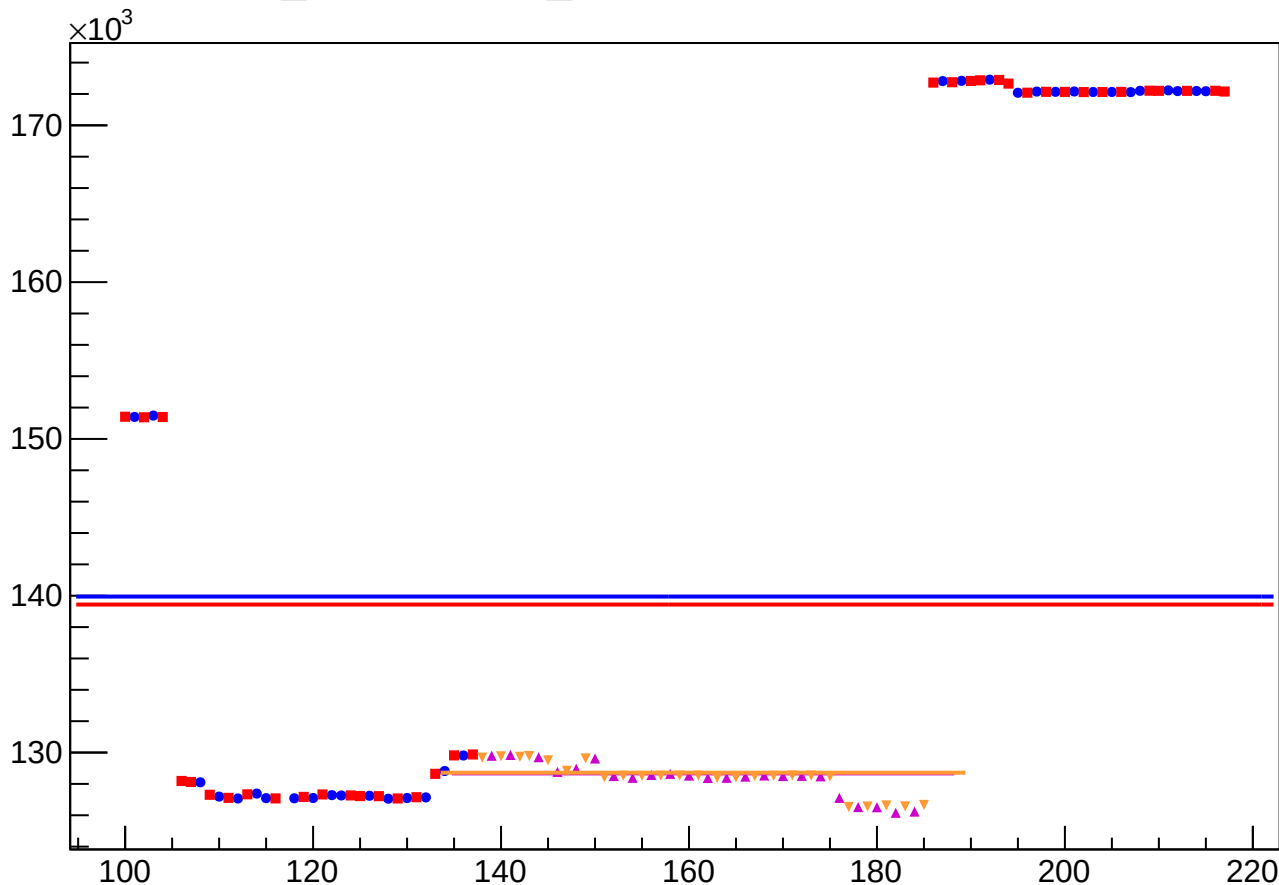
Right: 0.800 ± 0.000 $\chi^2/\text{NDF}: 7109779.3/67$

In: 0.806 ± 0.000 $\chi^2/\text{NDF}: 3785687.6/54$

Out: 0.801 ± 0.000 $\chi^2/\text{NDF}: 4508241.0/60$

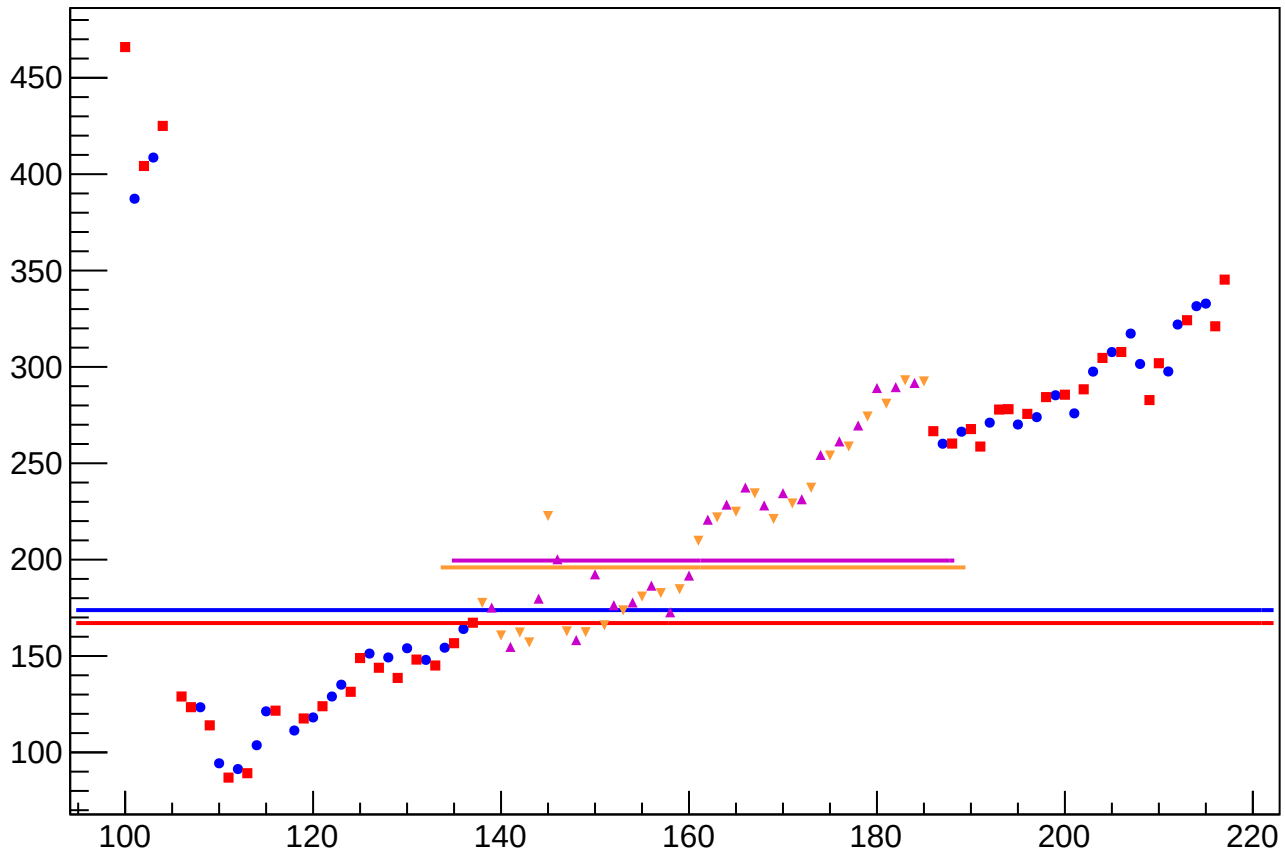
All: 0.803 ± 0.000 $\chi^2/\text{NDF}: 8294999.1/115$

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139947.822 $\pm$ 0.047	χ^2 /NDF: 181057686407.6/31	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 139674.374 $\pm$ 0.032	χ^2 /NDF: 386394459165
Right Out: 139438.497 $\pm$ 0.043	χ^2 /NDF: 205272901523.1/35	In: 134561.164 $\pm$ 0.034	χ^2 /NDF: 209252285989.9
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134466.600 $\pm$ 0.032	χ^2 /NDF: 233969738606
		All: 134511.019 $\pm$ 0.023	χ^2 /NDF: 44322618

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 173.816 $\pm$ 0.033 χ^2/NDF : 6386899.8/31

Left Out: 195.964 $\pm$ 0.033 χ^2/NDF : 1316091.7/24

Right Out: 167.095 $\pm$ 0.031 χ^2/NDF : 7199363.6/35

Left In: 199.531 $\pm$ 0.035 χ^2/NDF : 1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2/NDF : 2497014.2/47

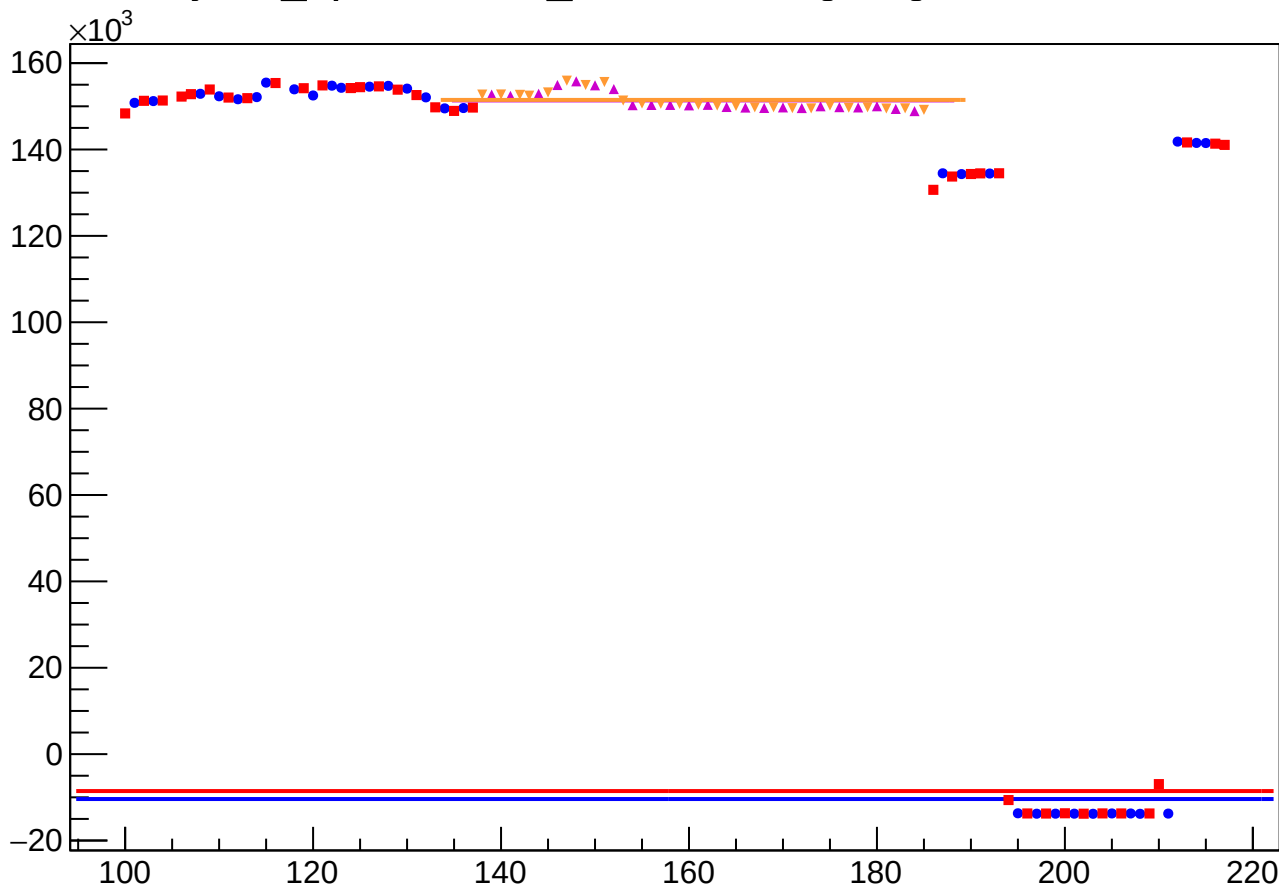
Right: 170.207 $\pm$ 0.022 χ^2/NDF : 13608509.9/67

In: 186.099 $\pm$ 0.024 χ^2/NDF : 7851938.9/54

Out: 180.478 $\pm$ 0.022 χ^2/NDF : 8926285.4/60

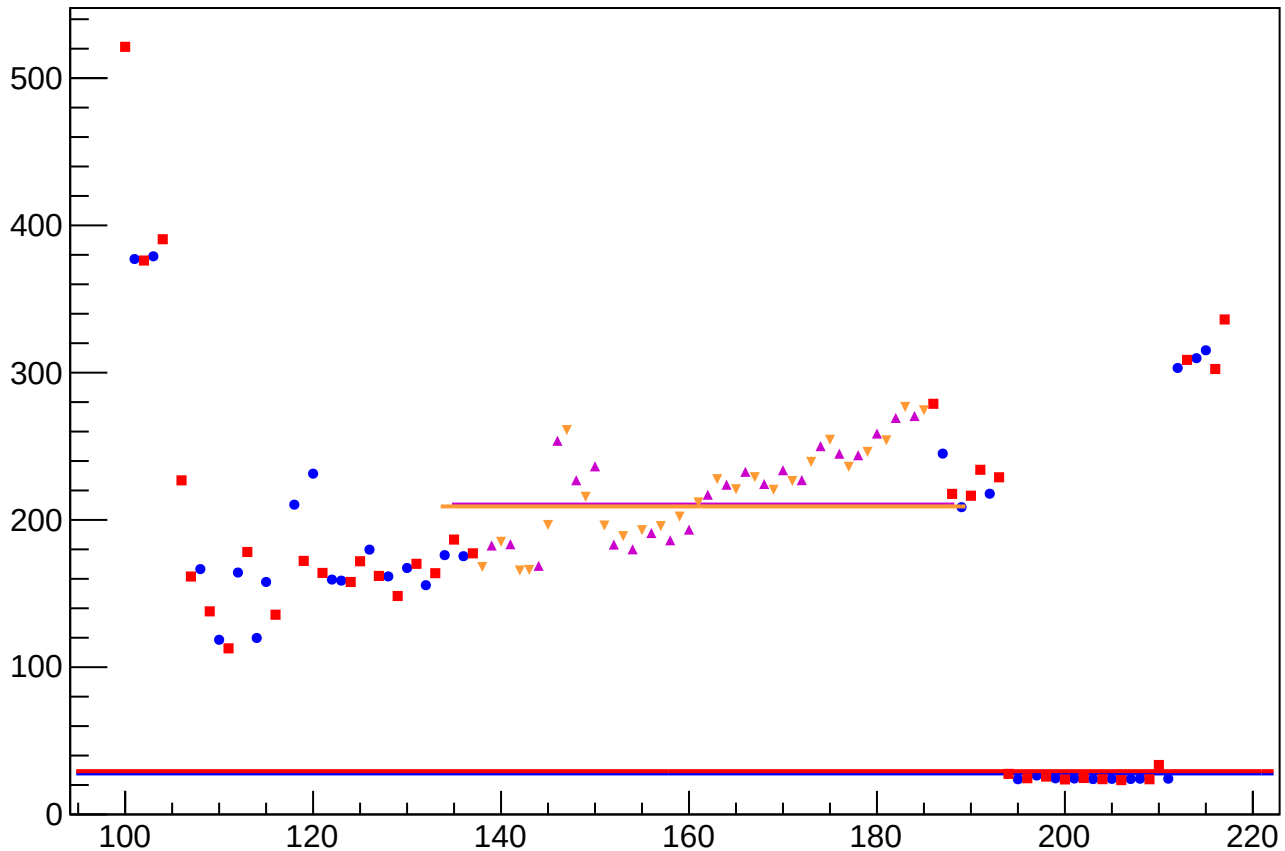
All: 183.118 $\pm$ 0.016 χ^2/NDF : 16807635.8/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10394.047 $\pm$ 0.009	χ^2/NDF : 6385848261516.3/31	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -9553.728 $\pm$ 0.007	χ^2/NDF : 1407175262800
Right Out: -8549.276 $\pm$ 0.010	χ^2/NDF : 7667544552353.8/35	In: -5351.048 $\pm$ 0.009	χ^2/NDF : 16048500667164.1
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: -2211.500 $\pm$ 0.010	χ^2/NDF : 17718286074358
		All: -3914.134 $\pm$ 0.007	χ^2/NDF : 3382193536

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.846 $\pm$ 0.006 χ^2 /NDF: 15009203.0/31

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 29.396 $\pm$ 0.007 χ^2 /NDF: 17153934.3/35

Left In: 210.431 $\pm$ 0.036 χ^2 /NDF: 684015.0/22

Left: 209.771 $\pm$ 0.025 χ^2 /NDF: 1394750.9/47

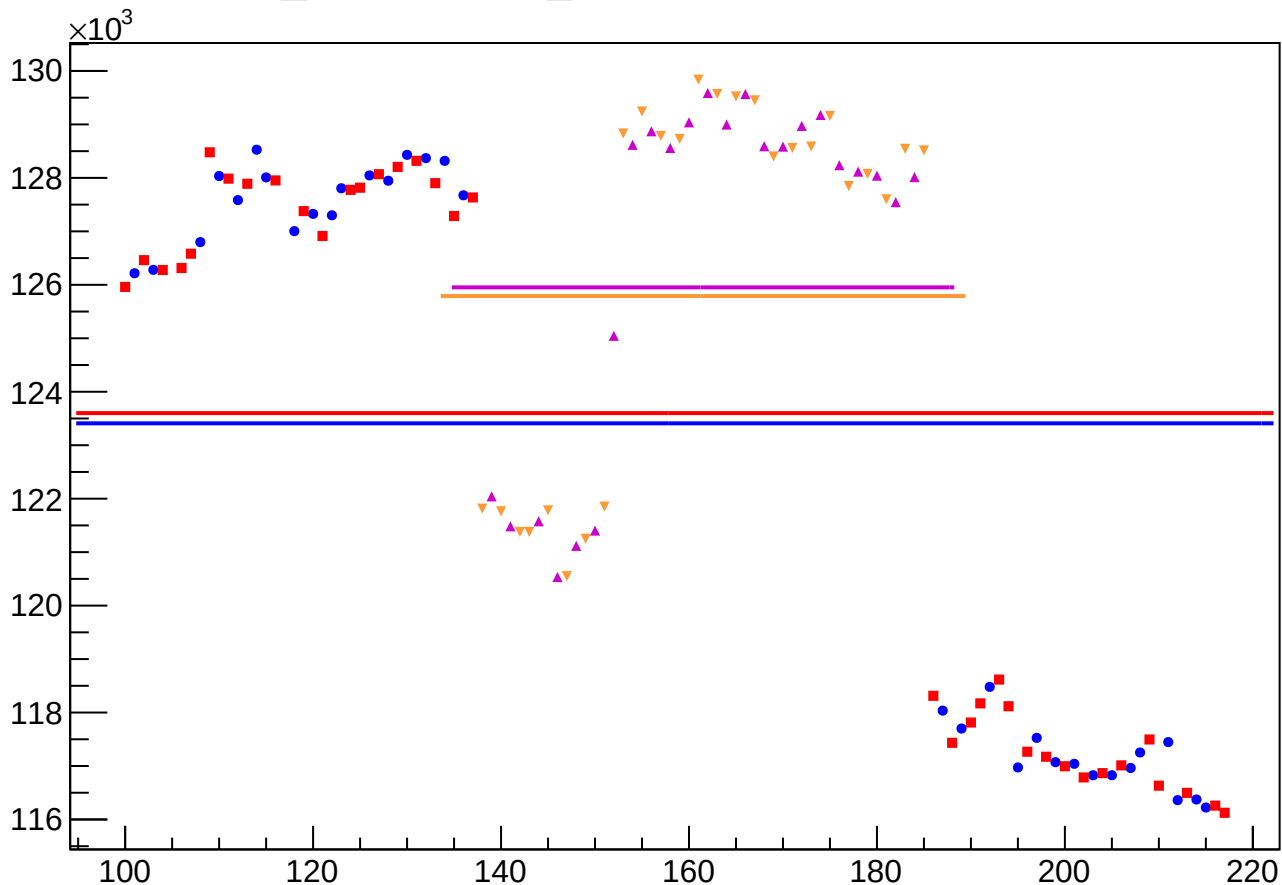
Right: 28.552 $\pm$ 0.005 χ^2 /NDF: 32189080.7/67

In: 33.538 $\pm$ 0.006 χ^2 /NDF: 40312162.6/54

Out: 36.515 $\pm$ 0.007 χ^2 /NDF: 43223890.3/60

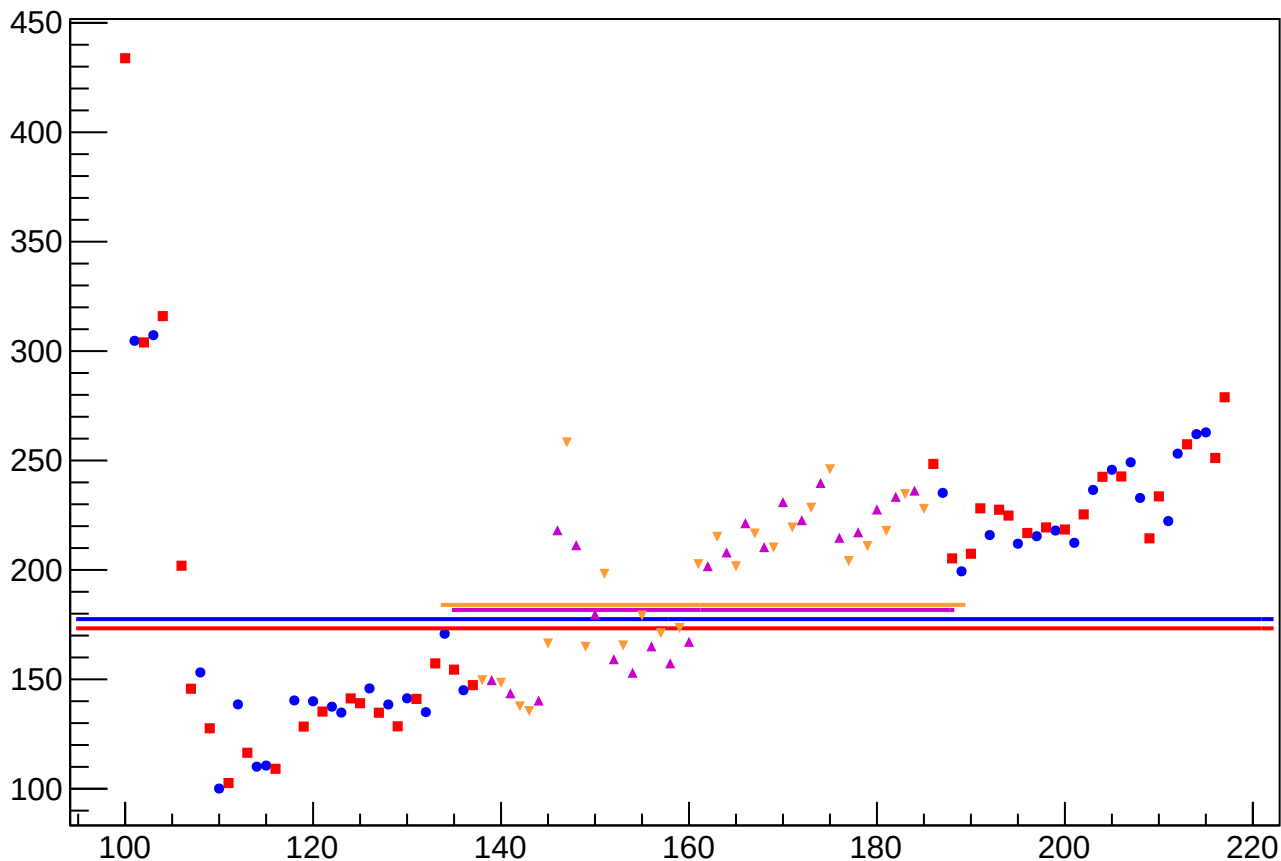
All: 34.901 $\pm$ 0.005 χ^2 /NDF: 83635252.5/115

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123409.322 $\pm$ 0.045	χ^2/NDF : 13495981383.3/31	Left: 125870.001 $\pm$ 0.031	χ^2/NDF : 12592819321.6/24
Left Out: 125790.126 $\pm$ 0.044	χ^2/NDF : 6744310079.8/24	Right: 123510.496 $\pm$ 0.031	χ^2/NDF : 28230227968.5/24
Right Out: 123600.829 $\pm$ 0.042	χ^2/NDF : 14724656479.5/35	In: 124688.991 $\pm$ 0.032	χ^2/NDF : 20948566878.8/35
Left In: 125952.447 $\pm$ 0.045	χ^2/NDF : 5841800367.5/22	Out: 124657.777 $\pm$ 0.031	χ^2/NDF : 22751734287.0/22
		All: 124672.814 $\pm$ 0.022	χ^2/NDF : 437008042.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 177.529 $\pm$ 0.032 χ^2 /NDF: 2760200.6/31

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 173.309 $\pm$ 0.030 χ^2 /NDF: 3354182.5/35

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF:1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

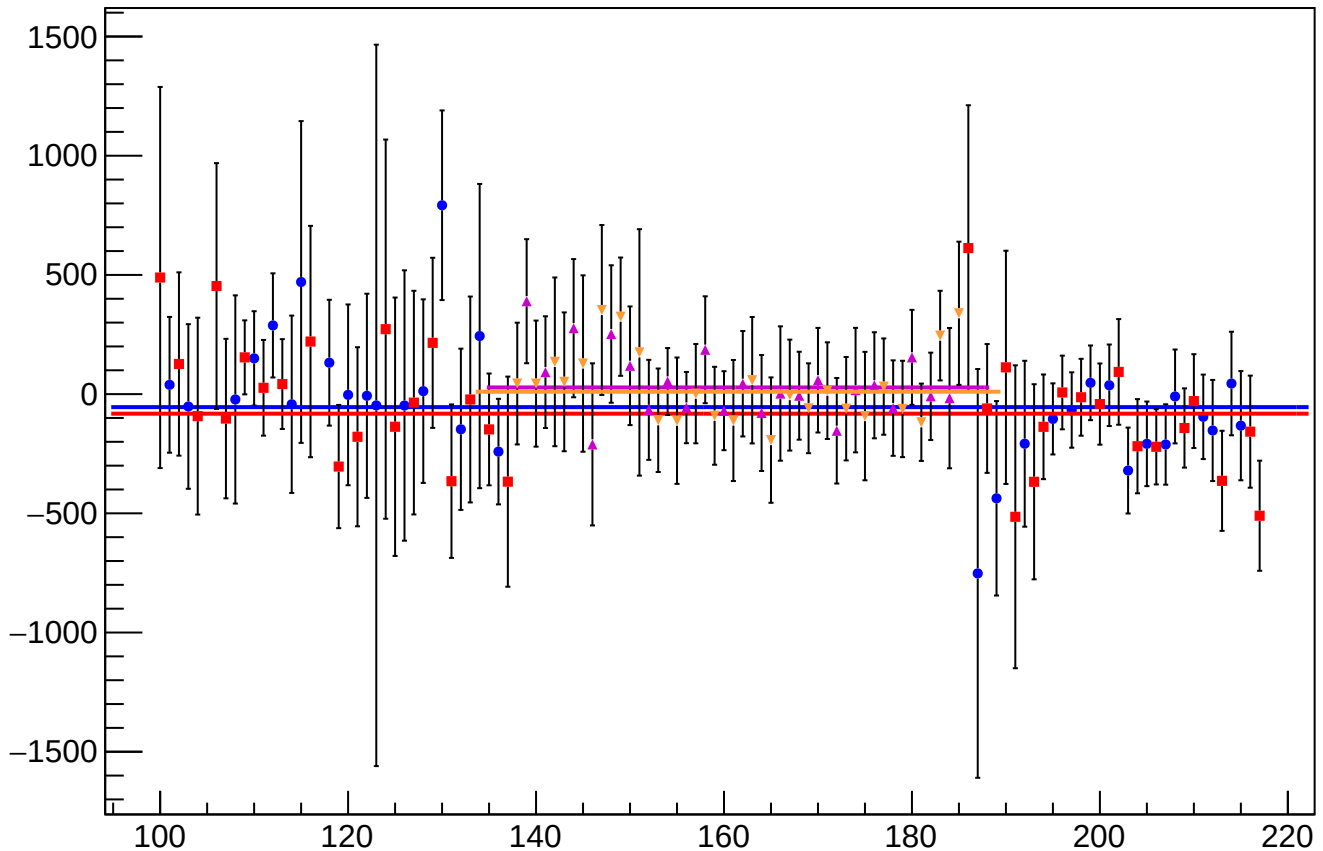
Right: 175.299 $\pm$ 0.022 χ^2 /NDF: 6123698.3/67

In: 179.635 $\pm$ 0.022 χ^2 /NDF:3885066.6/54

Out: 178.484 $\pm$ 0.022 χ^2 /NDF:4542294.4/60

All: 179.039 $\pm$ 0.016 χ^2 /NDF: 8428727.9/115

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -54.529 ± 42.624 χ^2/NDF : 17.3/31

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -82.029 ± 41.674 χ^2/NDF : 18.8/35

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

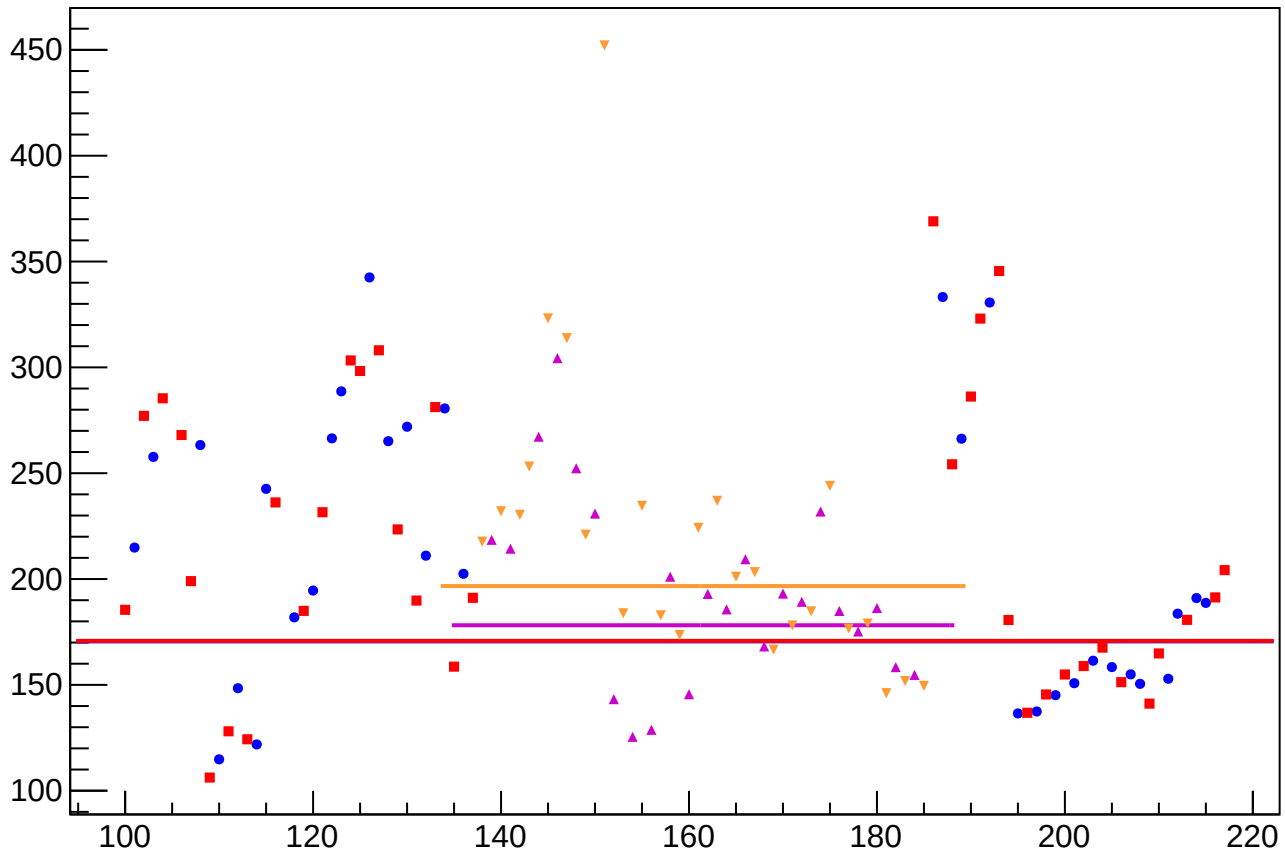
Right: -68.589 ± 29.798 χ^2/NDF : 36.4/67

In: -15.084 ± 30.806 χ^2/NDF : 26.1/54

Out: -41.957 ± 31.323 χ^2/NDF : 29.4/60

All: -28.297 ± 21.963 χ^2/NDF : 55.9/115

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 170.555 $\pm$ 0.030 χ^2 /NDF: 2178460.3/31

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 170.777 $\pm$ 0.029 χ^2 /NDF: 2907033.8/35

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

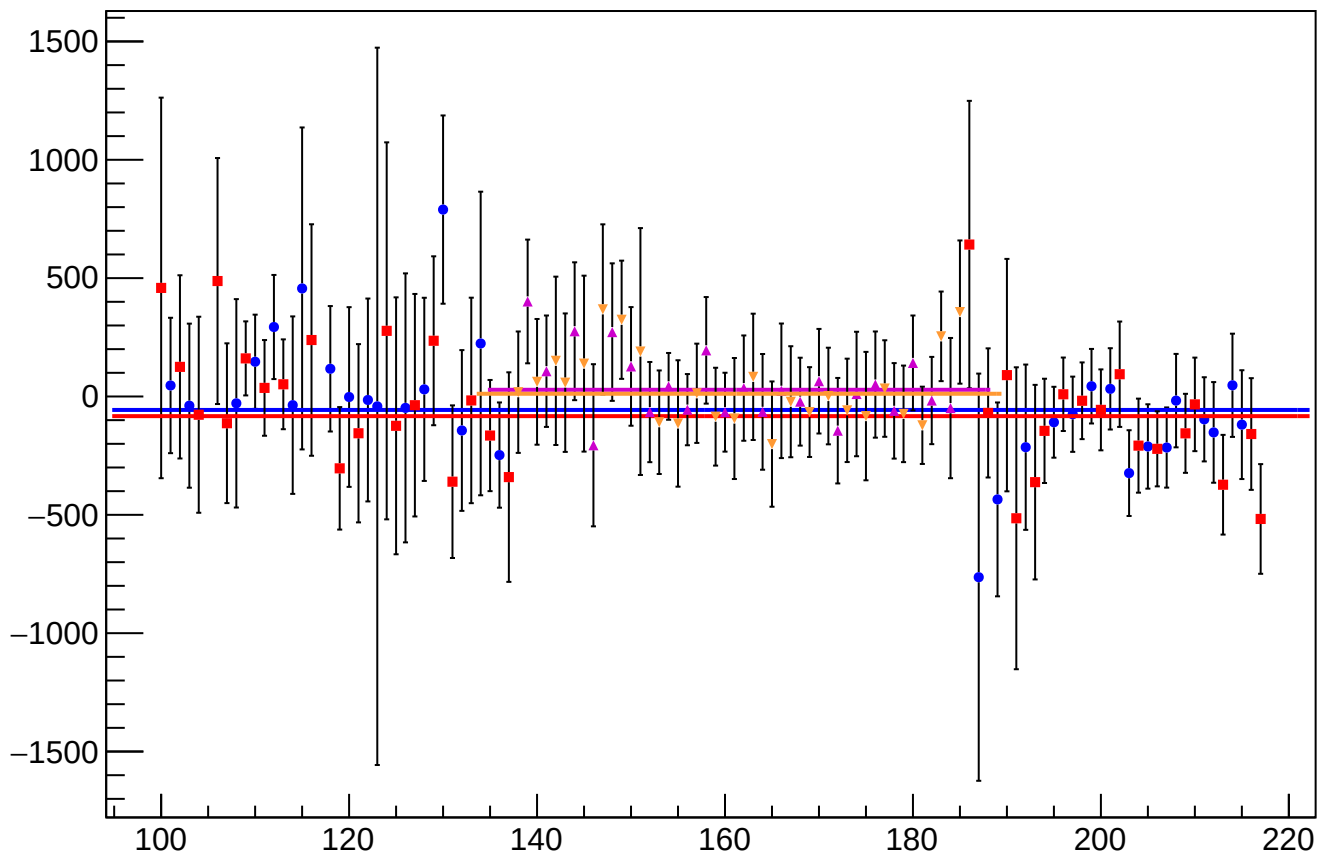
Right: 170.669 $\pm$ 0.021 χ^2 /NDF: 5085521.8/67

In: 174.190 $\pm$ 0.022 χ^2 /NDF:3827882.3/54

Out: 182.047 $\pm$ 0.022 χ^2 /NDF:5025954.6/60

All: 178.053 $\pm$ 0.016 χ^2 /NDF: 8917801.8/115

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -56.870 ± 42.816 $\chi^2/\text{NDF}: 17.3/31$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -83.044 ± 41.873 $\chi^2/\text{NDF}: 19.3/35$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

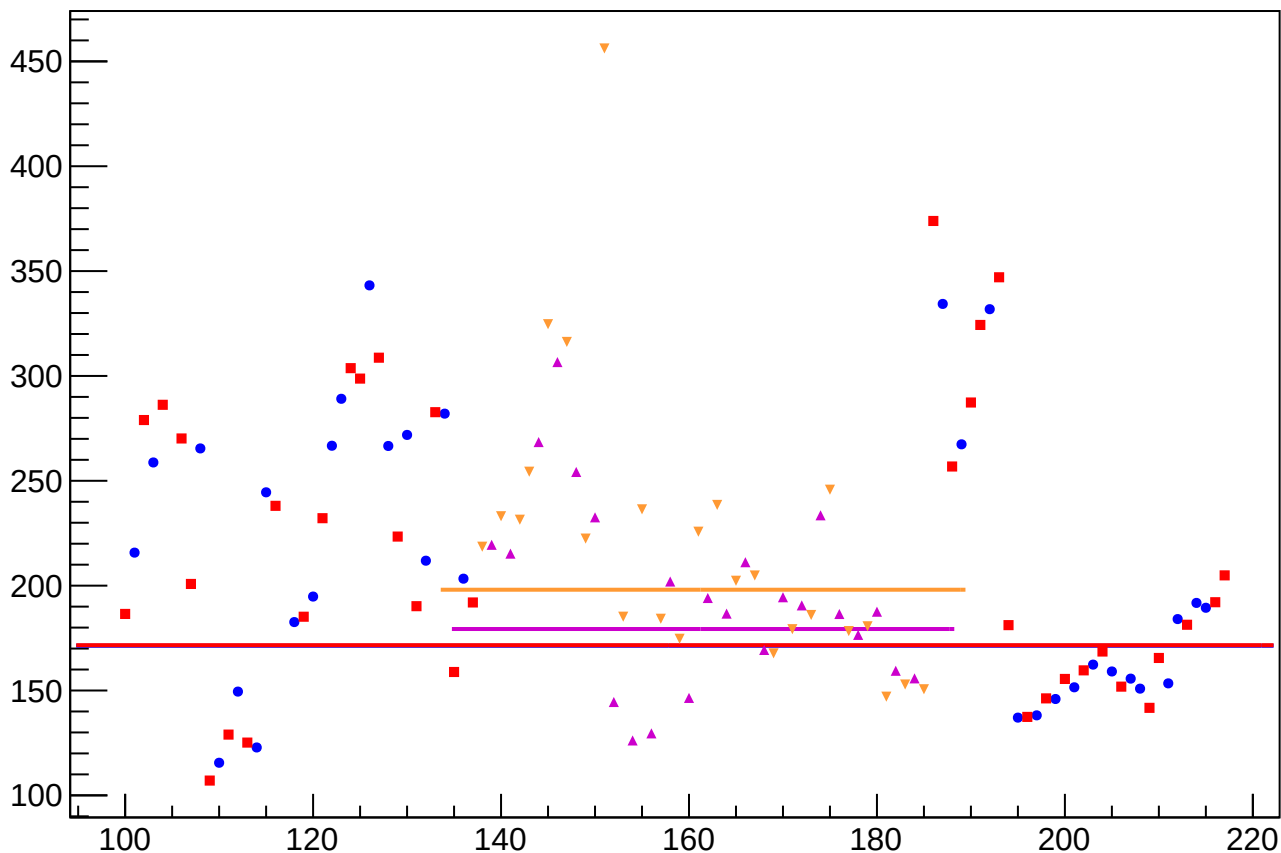
Right: -70.248 ± 29.937 $\chi^2/\text{NDF}: 36.8/67$

In: -16.282 ± 30.974 $\chi^2/\text{NDF}: 26.2/54$

Out: -42.021 ± 31.503 $\chi^2/\text{NDF}: 30.4/60$

All: -28.934 ± 22.086 $\chi^2/\text{NDF}: 56.9/115$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 171.344 ± 0.030 χ^2/NDF : 2169615.5/31

Left Out: 198.059 ± 0.034 χ^2/NDF : 1778526.5/24

Right Out: 171.605 ± 0.030 χ^2/NDF : 2901978.4/35

Left In: 179.324 ± 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 ± 0.023 χ^2/NDF : 3560073.1/47

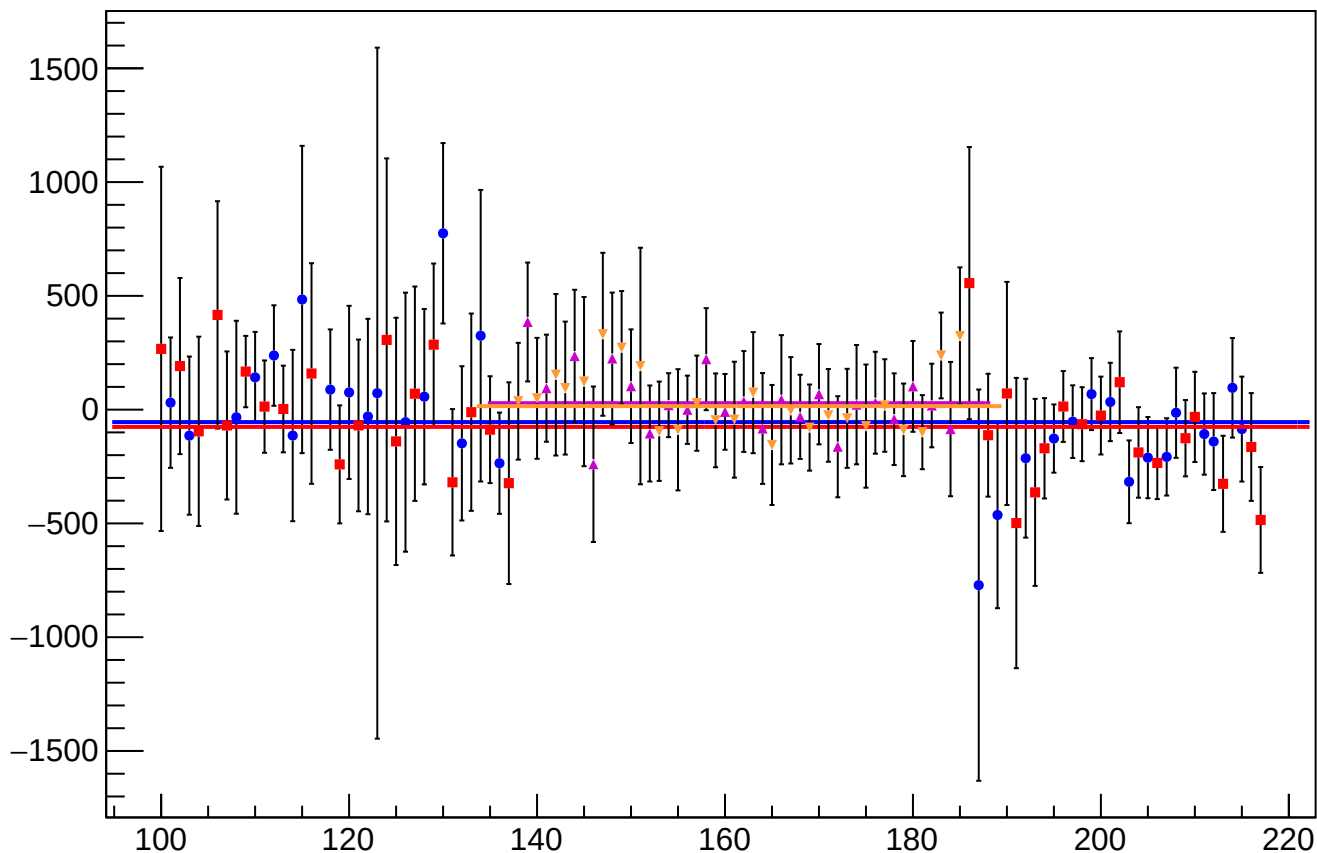
Right: 171.478 ± 0.021 χ^2/NDF : 5071631.8/67

In: 175.148 ± 0.022 χ^2/NDF : 3820993.3/54

Out: 183.086 ± 0.022 χ^2/NDF : 5026934.0/60

All: 179.050 ± 0.016 χ^2/NDF : 8912498.2/115

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -54.766 ± 42.902 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -75.933 ± 41.911 $\chi^2/\text{NDF}: 16.9/35$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

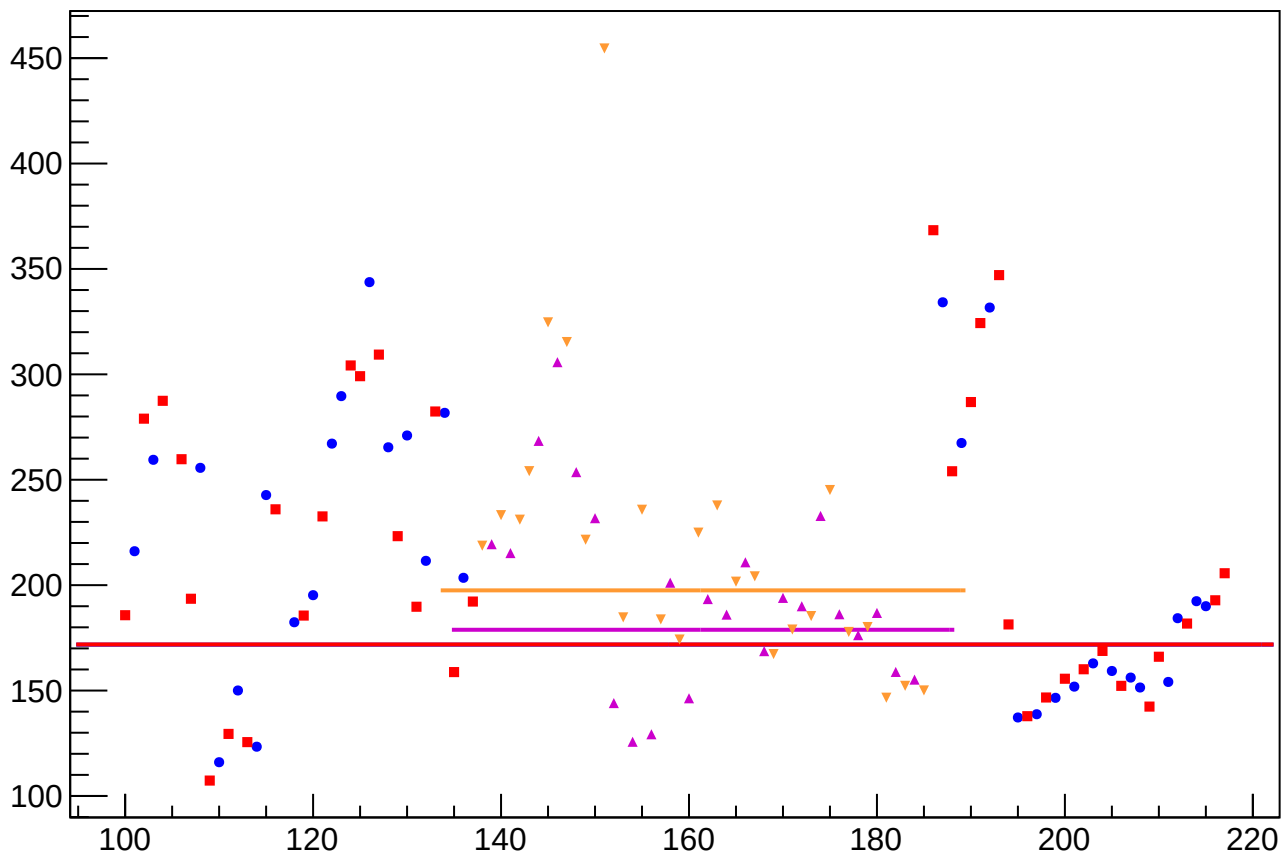
Right: -65.597 ± 29.980 $\chi^2/\text{NDF}: 34.0/67$

In: -14.988 ± 30.967 $\chi^2/\text{NDF}: 25.1/54$

Out: -36.121 ± 31.483 $\chi^2/\text{NDF}: 26.0/60$

All: -25.380 ± 22.077 $\chi^2/\text{NDF}: 51.3/115$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.777 ± 0.030 χ^2/NDF : 2137204.4/31

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 171.873 ± 0.030 χ^2/NDF : 2855966.2/35

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

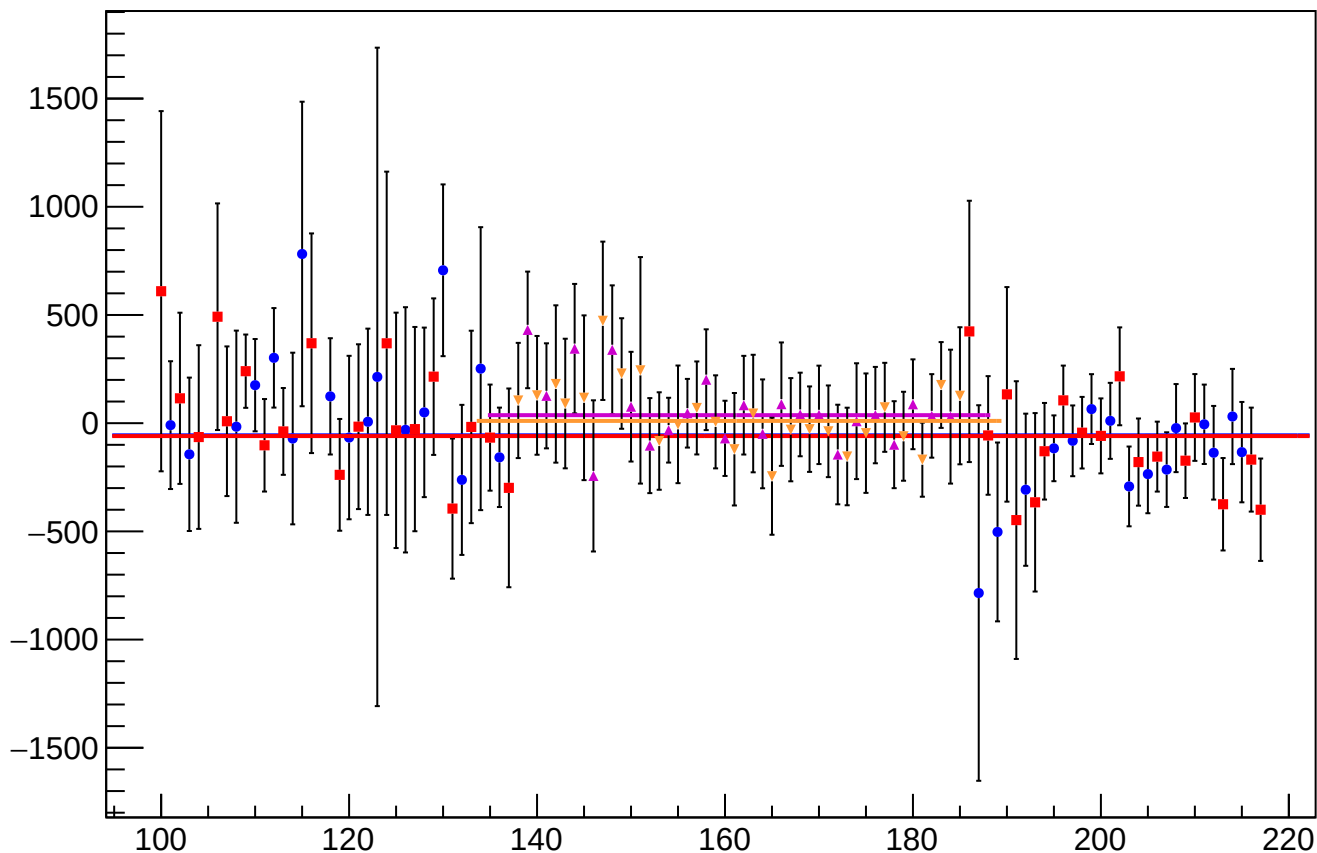
Right: 171.826 ± 0.021 χ^2/NDF : 4993175.8/67

In: 175.158 ± 0.022 χ^2/NDF : 3785406.3/54

Out: 183.051 ± 0.022 χ^2/NDF : 4966698.7/60

All: 179.039 ± 0.016 χ^2/NDF : 8816003.2/115

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.199 ± 43.815 $\chi^2/\text{NDF}: 17.4/31$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -59.623 ± 42.987 $\chi^2/\text{NDF}: 18.7/35$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

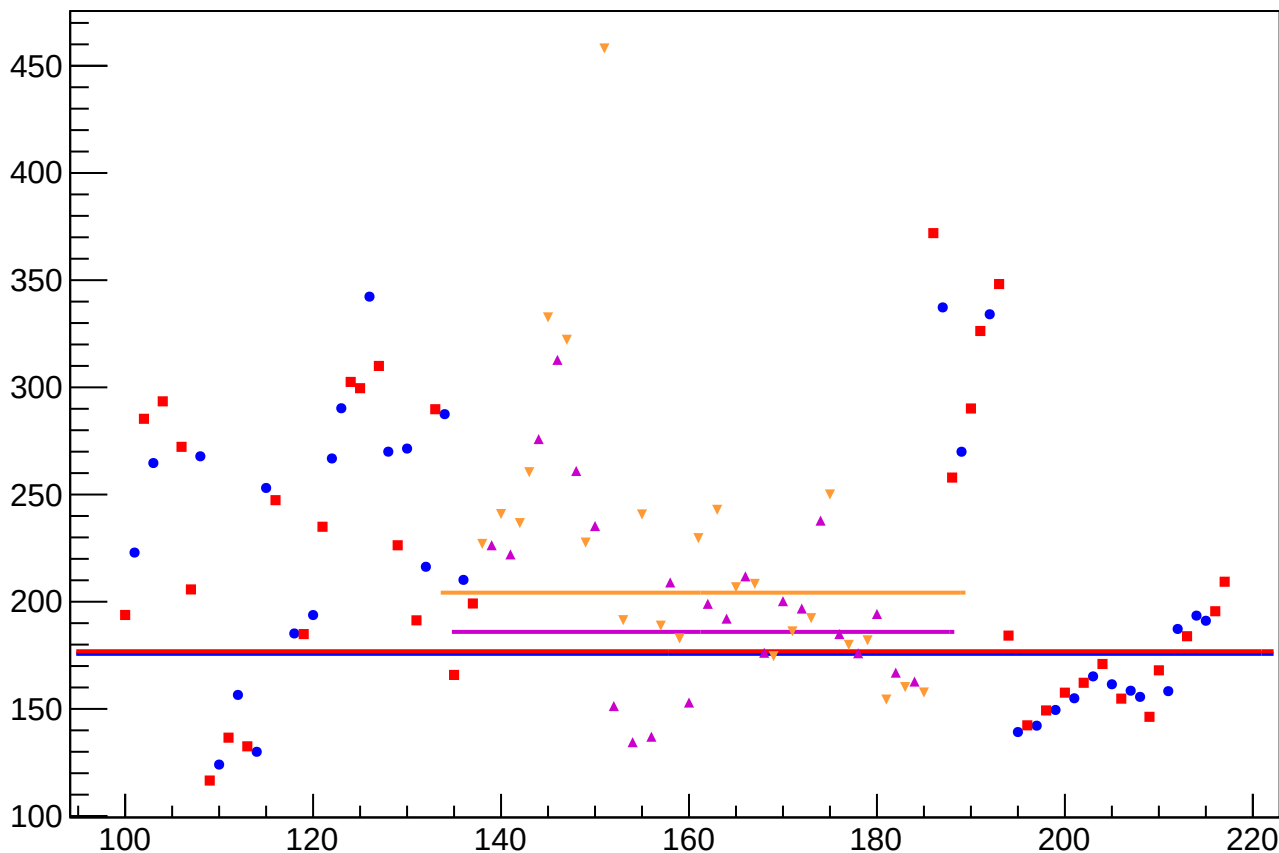
Right: -57.944 ± 30.685 $\chi^2/\text{NDF}: 36.2/67$

In: -12.226 ± 31.843 $\chi^2/\text{NDF}: 27.4/54$

Out: -29.249 ± 32.371 $\chi^2/\text{NDF}: 27.4/60$

All: -20.597 ± 22.701 $\chi^2/\text{NDF}: 54.9/115$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.690 ± 0.031 $\chi^2/\text{NDF}: 2052887.0/31$

Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$

Right Out: 176.909 ± 0.030 $\chi^2/\text{NDF}: 2664862.9/35$

Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$

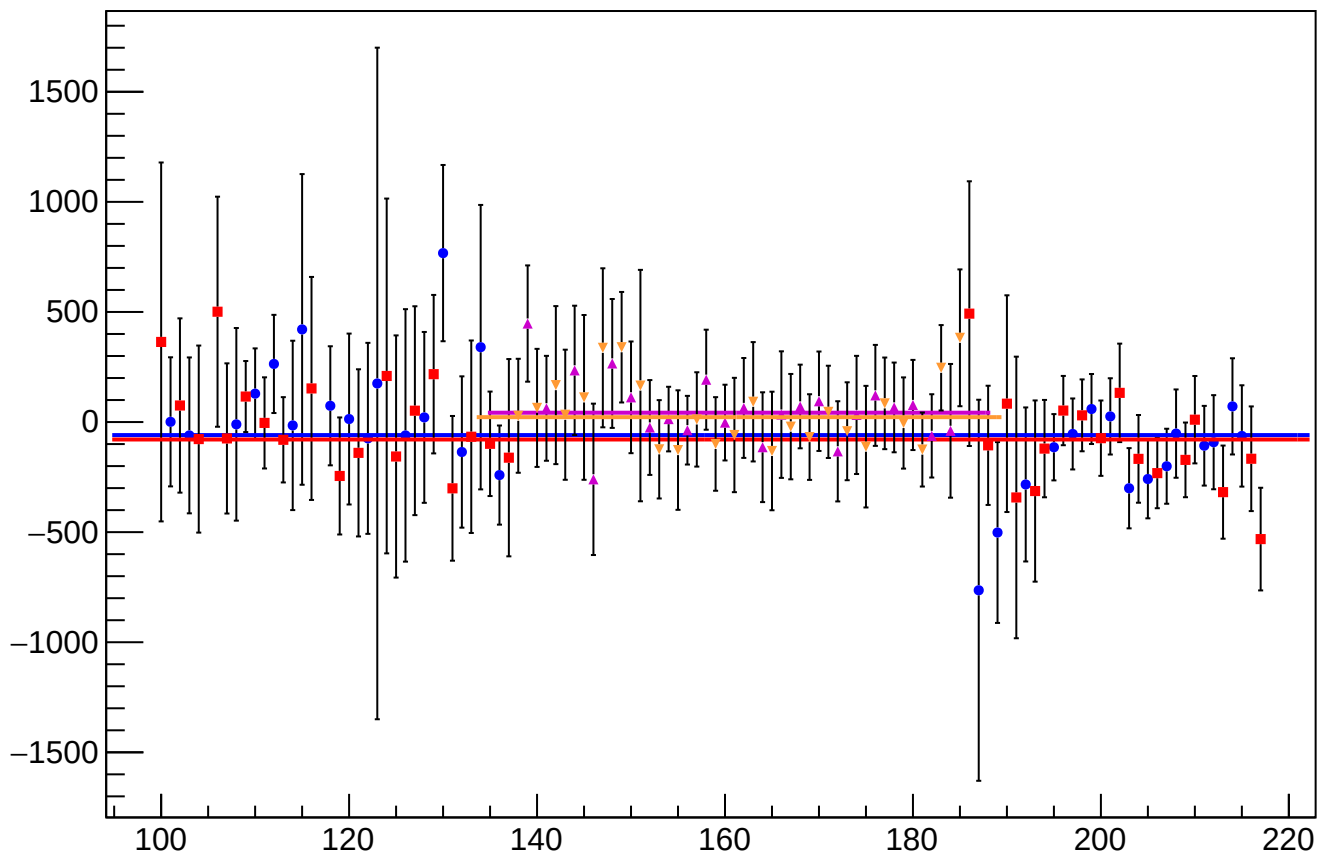
Right: 176.311 ± 0.022 $\chi^2/\text{NDF}: 4718538.5/67$

In: 180.522 ± 0.023 $\chi^2/\text{NDF}: 3564506.0/54$

Out: 188.740 ± 0.023 $\chi^2/\text{NDF}: 4690443.7/60$

All: 184.564 ± 0.016 $\chi^2/\text{NDF}: 8320455.4/115$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -59.173 ± 43.275 $\chi^2/\text{NDF}: 16.5/31$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -79.213 ± 42.335 $\chi^2/\text{NDF}: 15.7/35$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

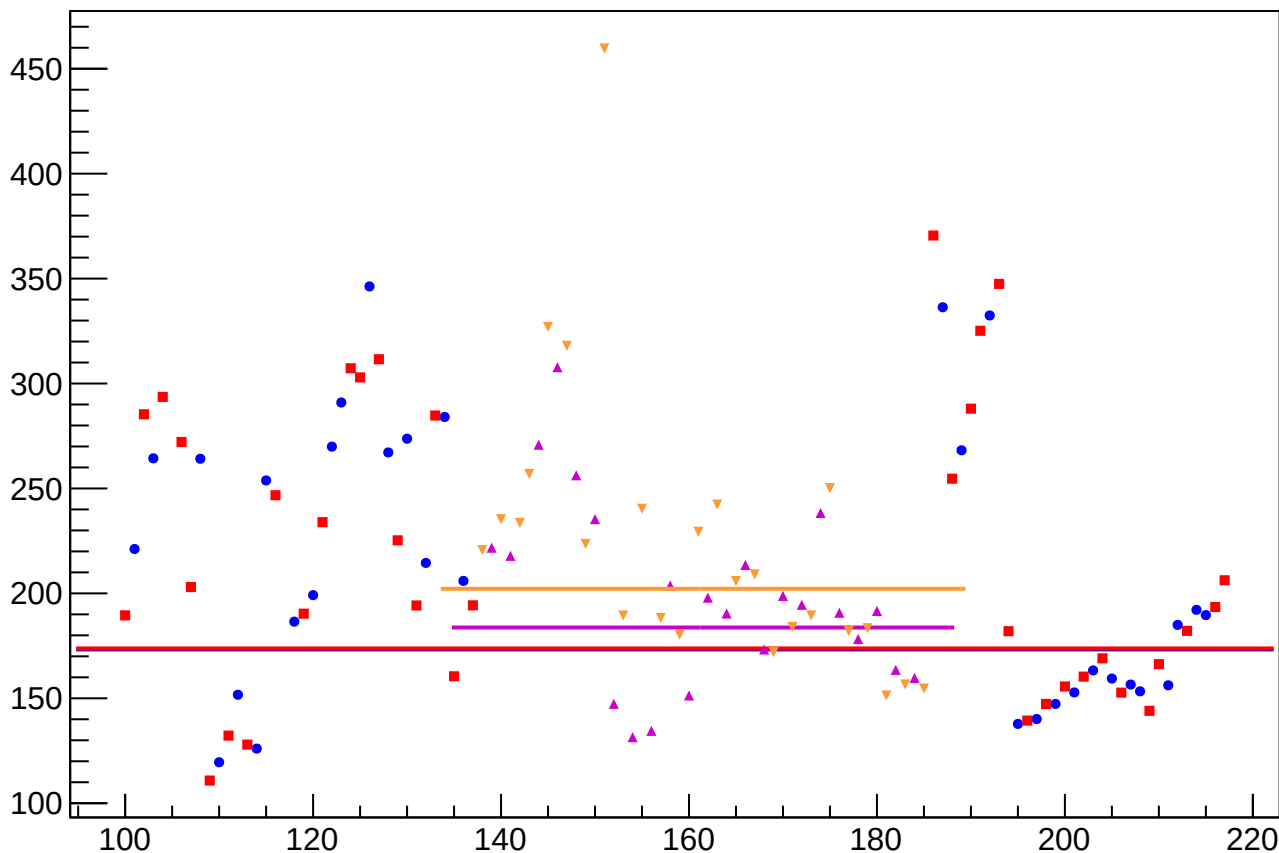
Right: -69.413 ± 30.262 $\chi^2/\text{NDF}: 32.3/67$

In: -11.309 ± 31.474 $\chi^2/\text{NDF}: 25.8/54$

Out: -35.606 ± 31.961 $\chi^2/\text{NDF}: 26.5/60$

All: -23.271 ± 22.426 $\chi^2/\text{NDF}: 52.6/115$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 173.296 ± 0.031 $\chi^2/\text{NDF}: 2138181.9/31$

Left Out: 202.186 ± 0.034 $\chi^2/\text{NDF}: 1696571.9/24$

Right Out: 173.755 ± 0.030 $\chi^2/\text{NDF}: 2829165.1/35$

Left In: 183.732 ± 0.032 $\chi^2/\text{NDF}: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/\text{NDF}: 3344580.1/47$

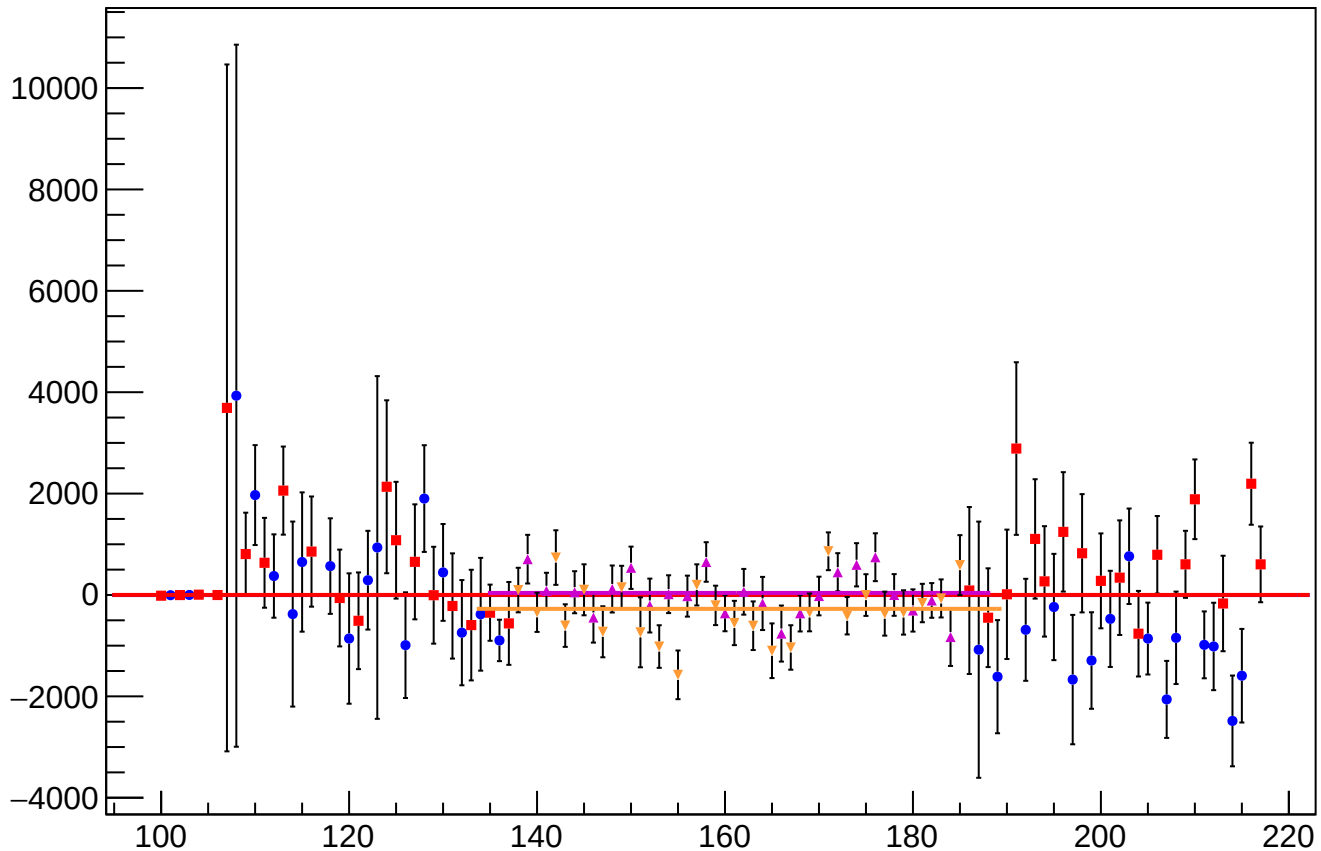
Right: 173.531 ± 0.021 $\chi^2/\text{NDF}: 4967462.0/67$

In: 178.212 ± 0.022 $\chi^2/\text{NDF}: 3688895.1/54$

Out: 185.982 ± 0.023 $\chi^2/\text{NDF}: 4913628.9/60$

All: 182.037 ± 0.016 $\chi^2/\text{NDF}: 8662530.0/115$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.627 ± 2.251 χ^2/NDF : 48.1/31

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.787 ± 2.111 χ^2/NDF : 40.6/35

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

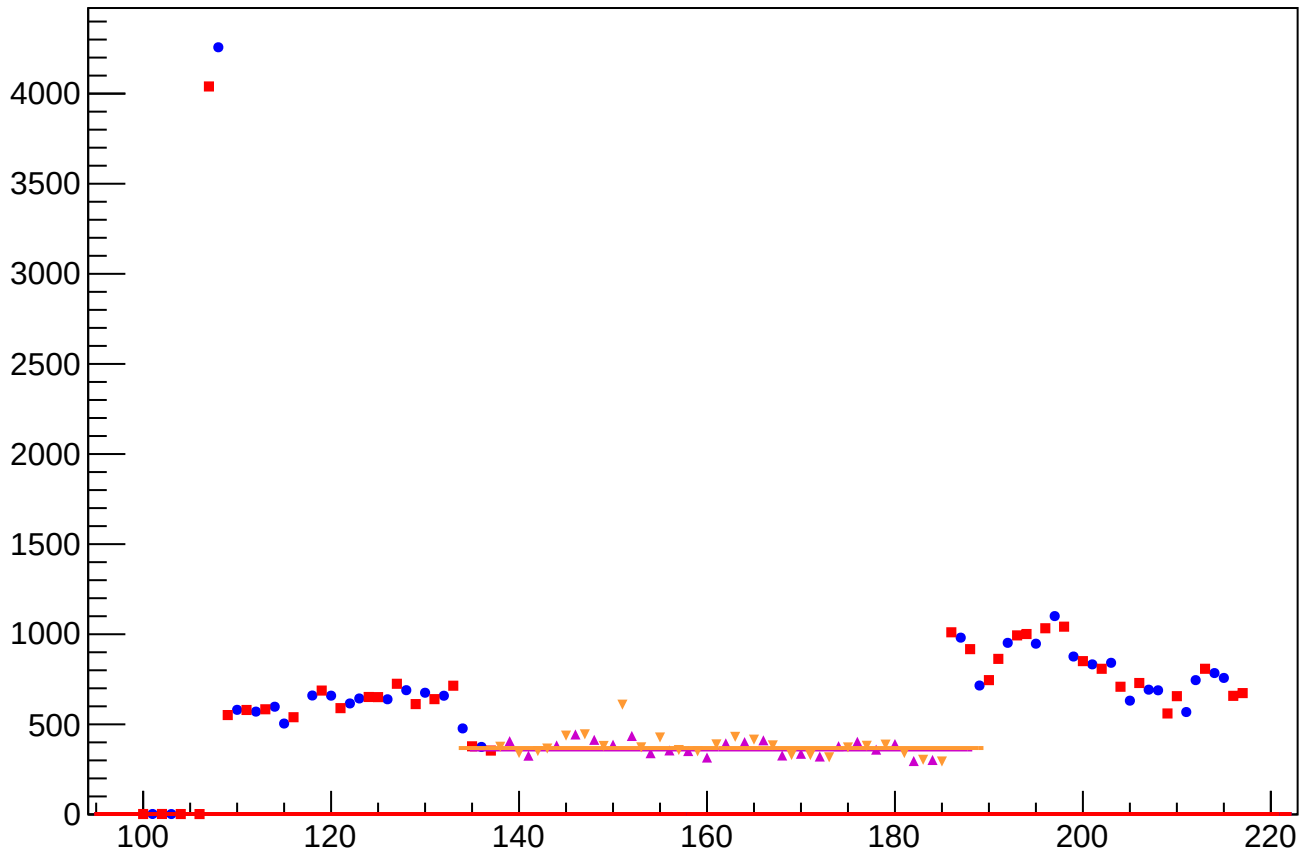
Right: -0.342 ± 1.540 χ^2/NDF : 89.2/67

In: -1.599 ± 2.251 χ^2/NDF : 68.5/54

Out: 0.625 ± 2.110 χ^2/NDF : 88.9/60

All: -0.415 ± 1.539 χ^2/NDF : 157.8/115

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.524+/-0.002 χ^2/NDF : 31652218.1/31

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.501+/-0.001 χ^2/NDF : 34077991.1/35

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

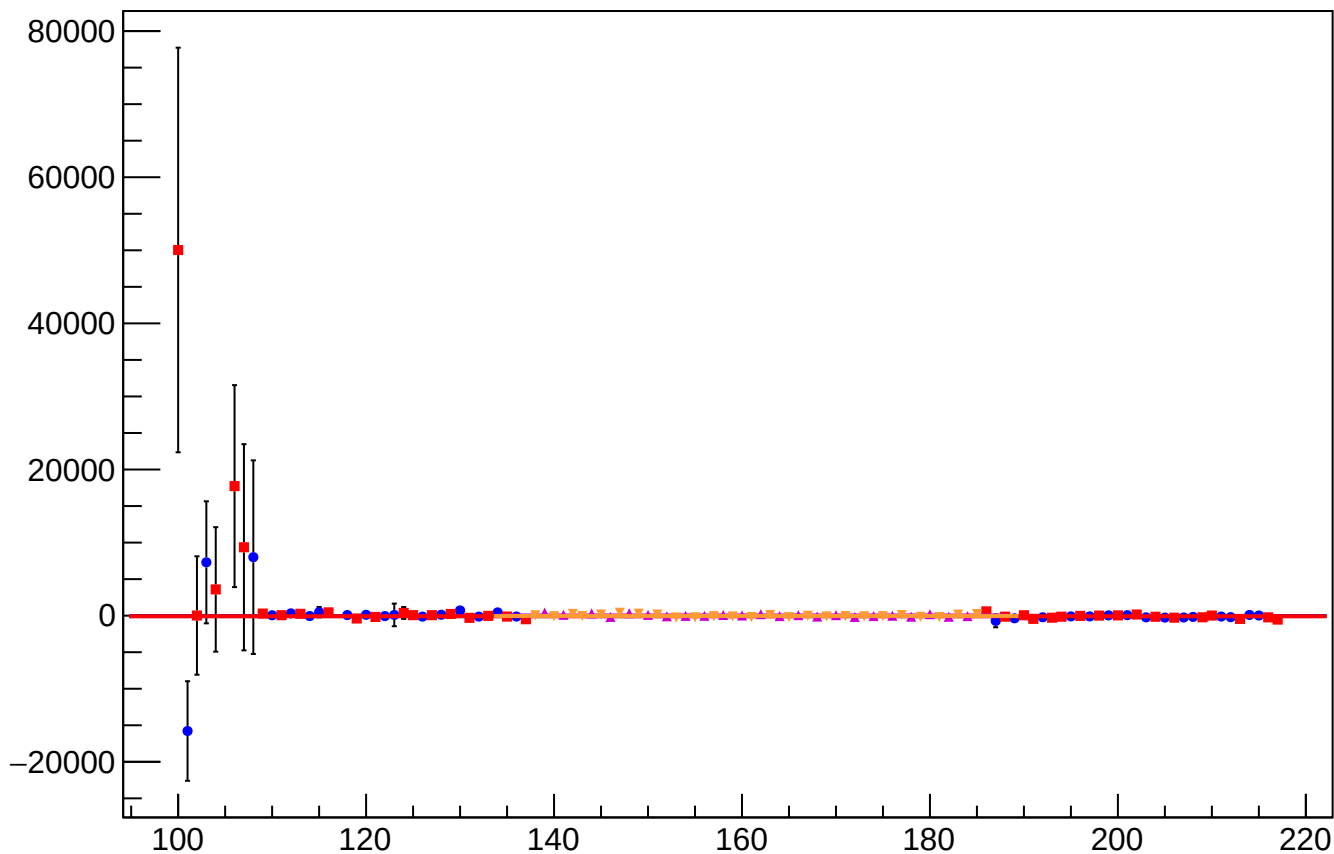
Right: 2.512+/-0.001 χ^2/NDF : 65730323.3/67

In: 2.761+/-0.002 χ^2/NDF : 65563453.7/54

Out: 2.717+/-0.001 χ^2/NDF : 70182461.5/60

All: 2.738+/-0.001 χ^2/NDF : 135746328.1/115

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.759 ± 47.143 χ^2/NDF : 21.5/31

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -79.877 ± 46.635 χ^2/NDF : 28.4/35

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

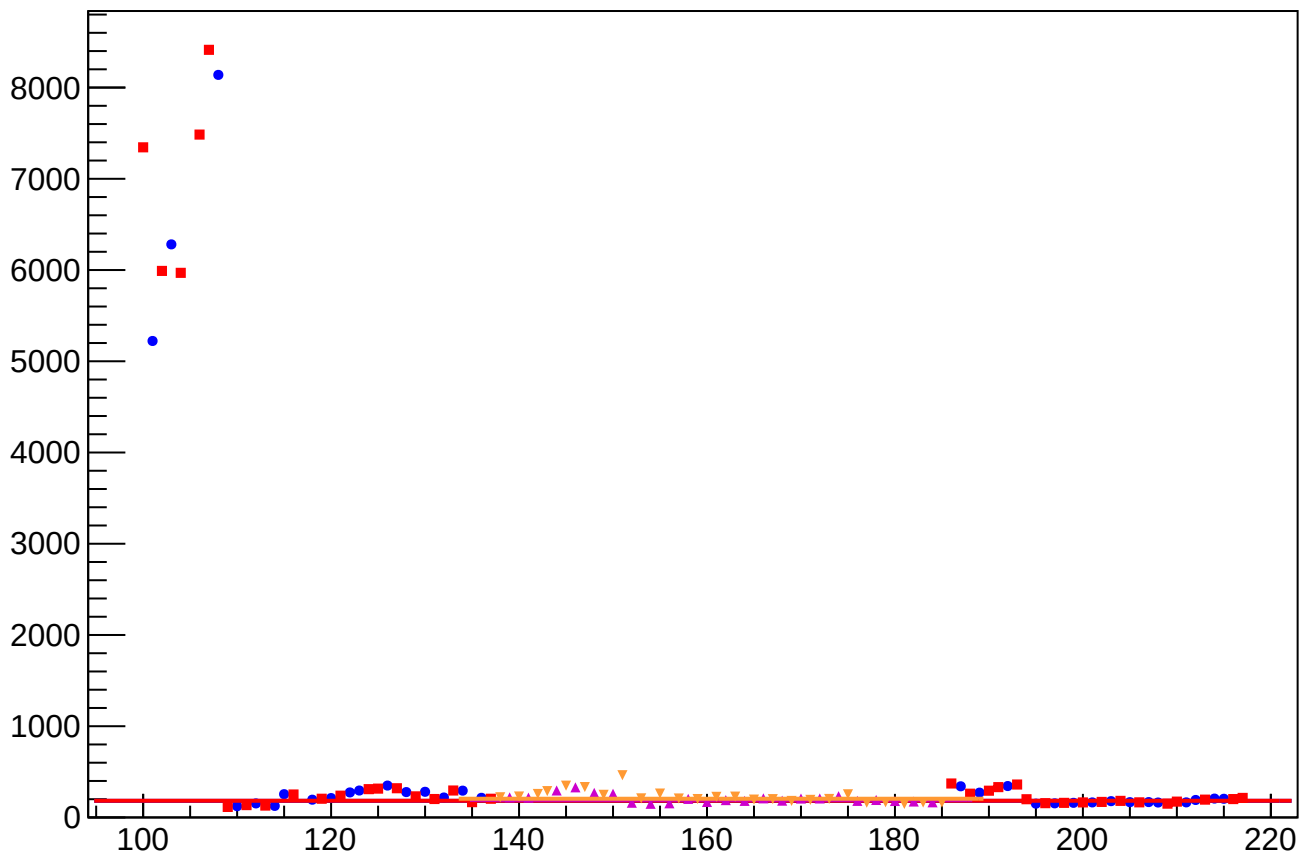
Right: -68.938 ± 33.154 χ^2/NDF : 50.0/67

In: -15.650 ± 33.645 χ^2/NDF : 32.7/54

Out: -60.704 ± 33.968 χ^2/NDF : 37.9/60

All: -37.962 ± 23.904 χ^2/NDF : 71.5/115

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 181.727 $\pm$ 0.033 χ^2 /NDF: 4578506.6/31

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 183.027 $\pm$ 0.033 χ^2 /NDF: 5472968.4/35

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

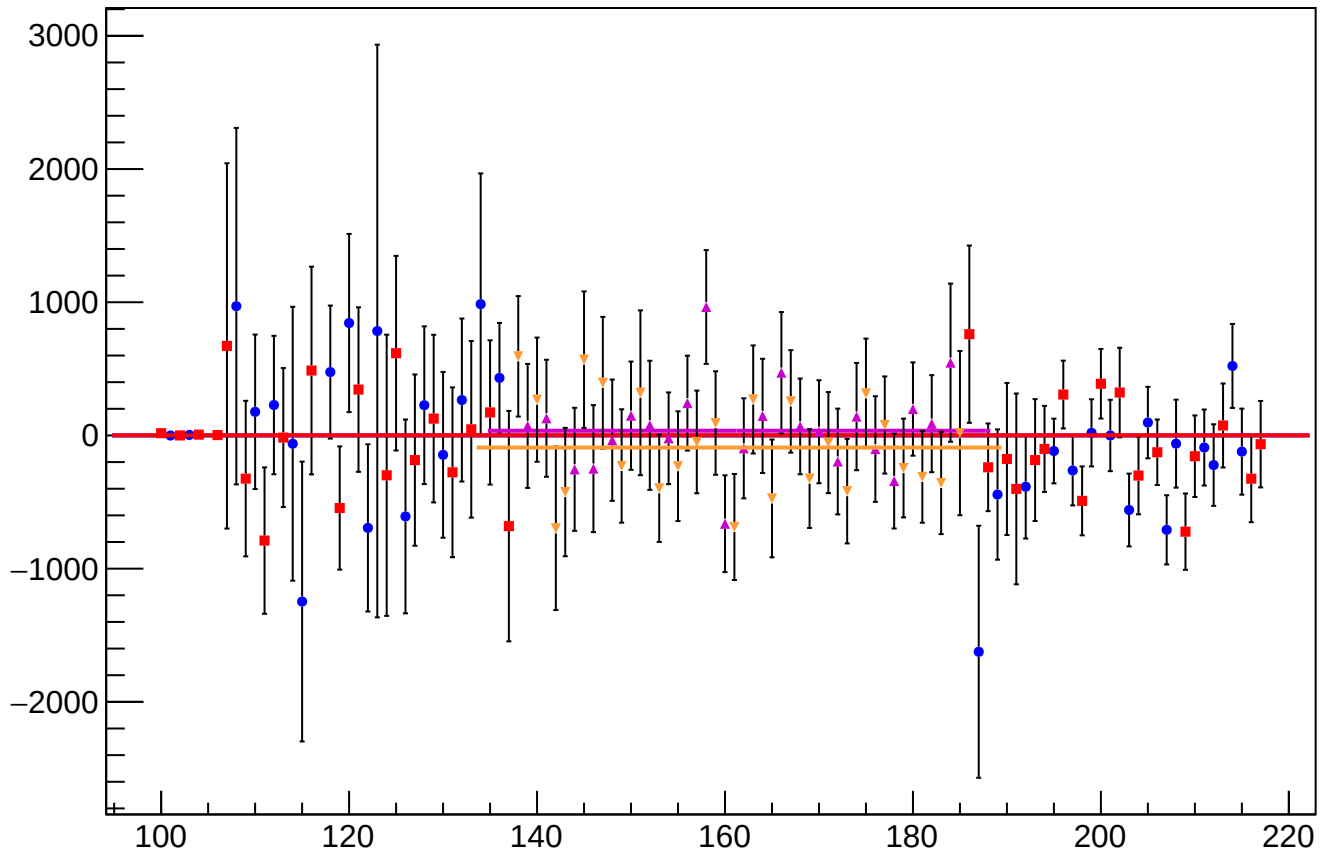
Right: 182.384 $\pm$ 0.023 χ^2 /NDF: 10052243.5/67

In: 187.561 $\pm$ 0.024 χ^2 /NDF:5820388.5/54

Out: 193.396 $\pm$ 0.024 χ^2 /NDF:7641057.6/60

All: 190.450 $\pm$ 0.017 χ^2 /NDF: 13491238.3/11

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.226 ± 1.736 χ^2/NDF : 31.4/31

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.278 ± 1.622 χ^2/NDF : 29.1/35

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

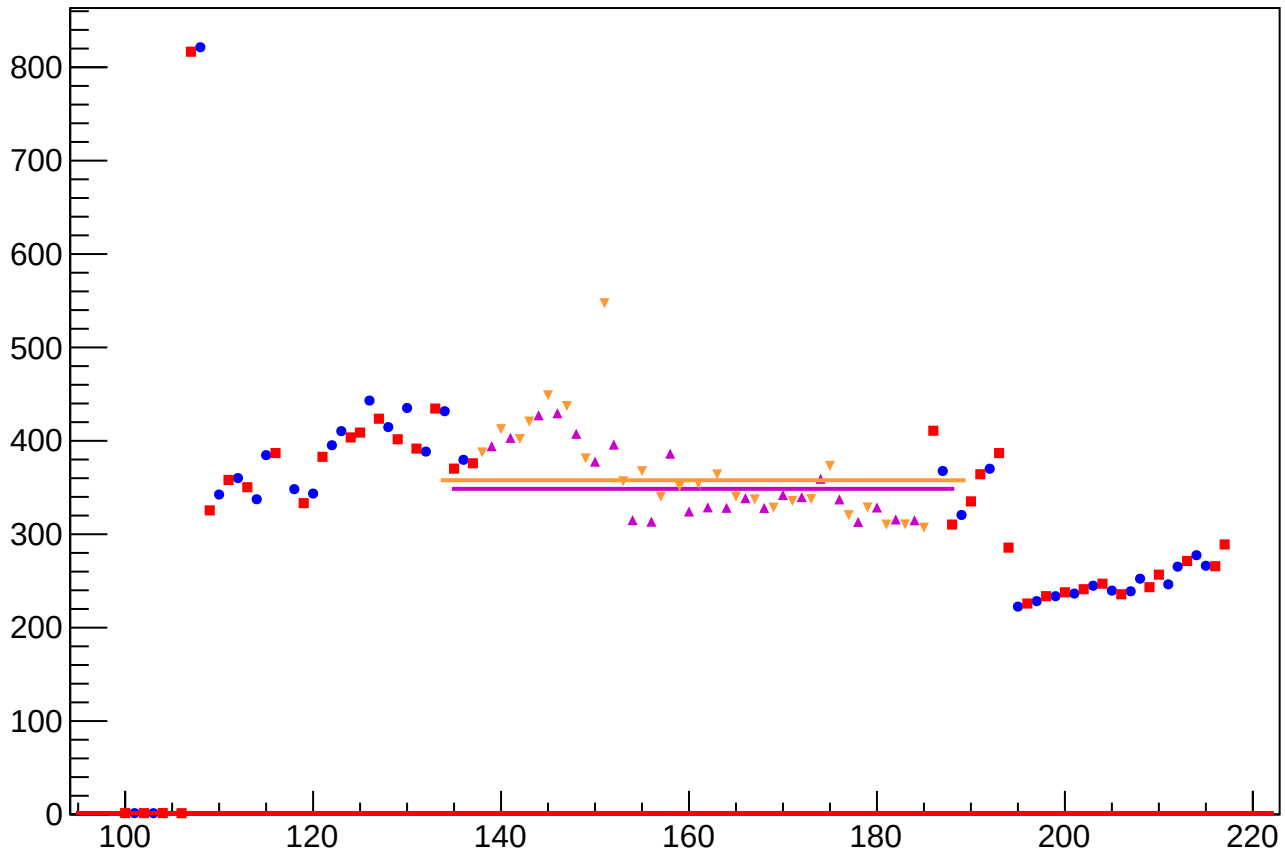
Right: 0.577 ± 1.185 χ^2/NDF : 60.8/67

In: -0.211 ± 1.736 χ^2/NDF : 45.0/54

Out: 1.244 ± 1.622 χ^2/NDF : 46.7/60

All: 0.566 ± 1.185 χ^2/NDF : 92.1/115

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.578 $\pm$ 0.001 χ^2 /NDF: 31922699.9/31

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF:547036.5/24

Right Out: 1.564 $\pm$ 0.001 χ^2 /NDF: 33740125.6/35

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF:362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

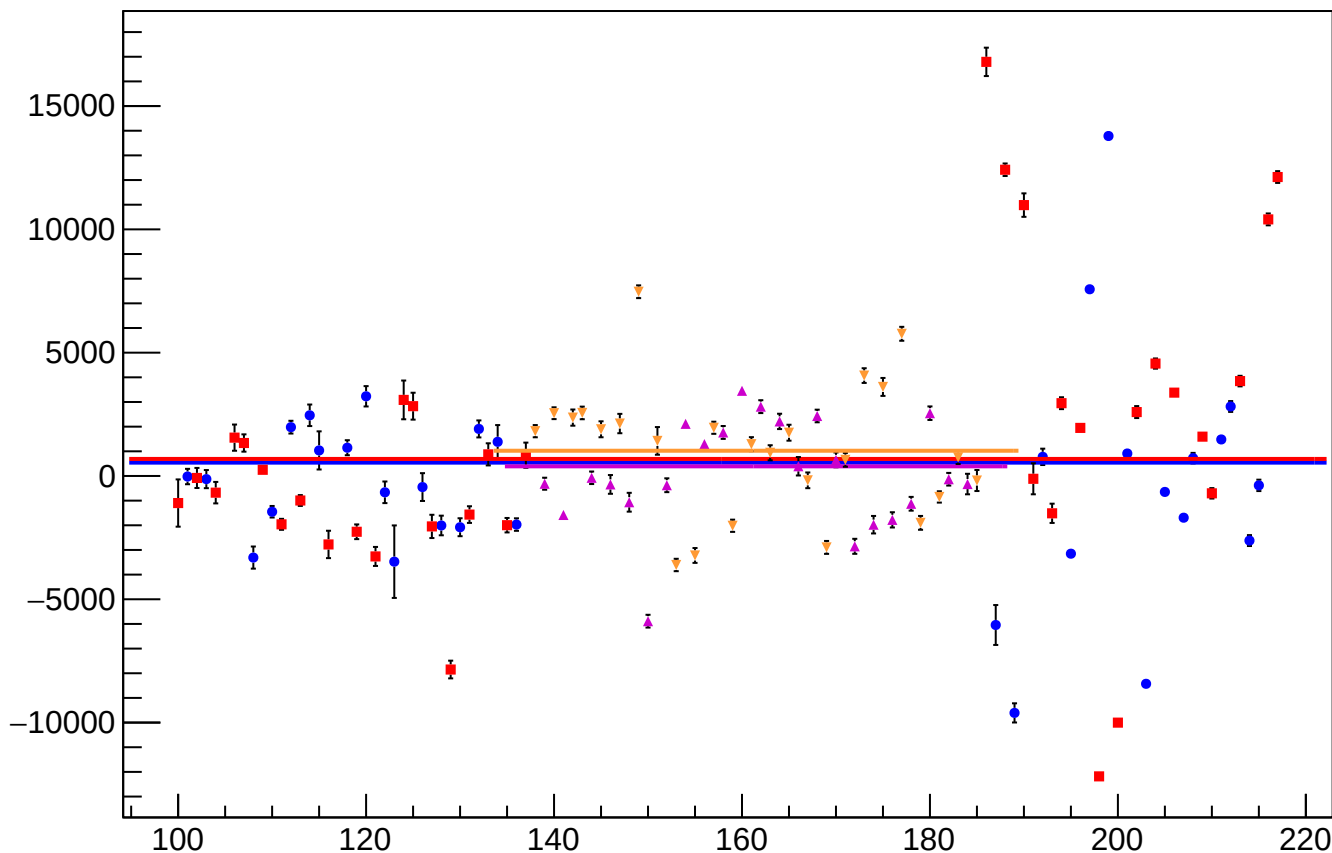
Right: 1.570 $\pm$ 0.001 χ^2 /NDF: 65662890.9/67

In: 1.724 $\pm$ 0.001 χ^2 /NDF:66098353.2/54

Out: 1.697 $\pm$ 0.001 χ^2 /NDF:70177996.8/60

All: 1.710 $\pm$ 0.001 χ^2 /NDF: 136276625.3/115

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 541.134+/-46.651 χ^2/NDF : 11358.9/31

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 690.901+/-45.431 χ^2/NDF : 17900.5/35

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

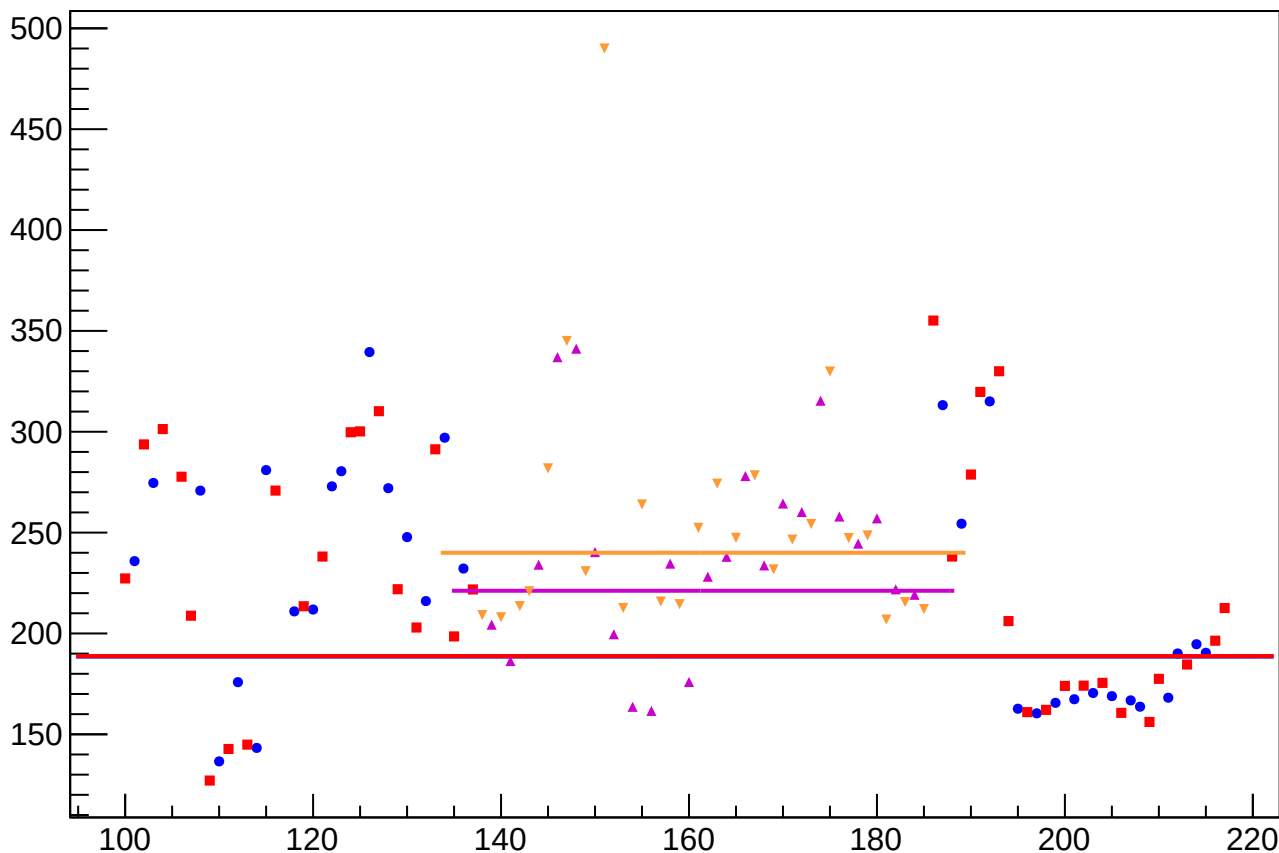
Right: 618.002+/-32.547 χ^2/NDF : 29264.7/67

In: 477.904+/-35.558 χ^2/NDF : 12948.2/54

Out: 819.151+/-35.608 χ^2/NDF : 20230.5/60

All: 648.287+/-25.161 χ^2/NDF : 33224.7/115

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.534+/-0.033 χ^2/NDF : 1544363.5/31

Left Out: 240.019+/-0.041 χ^2/NDF :1002427.9/24

Right Out: 188.795+/-0.032 χ^2/NDF : 2144978.1/35

Left In: 221.173+/-0.039 χ^2/NDF :1342517.8/22

Left: 230.192+/-0.028 χ^2/NDF : 2457612.6/47

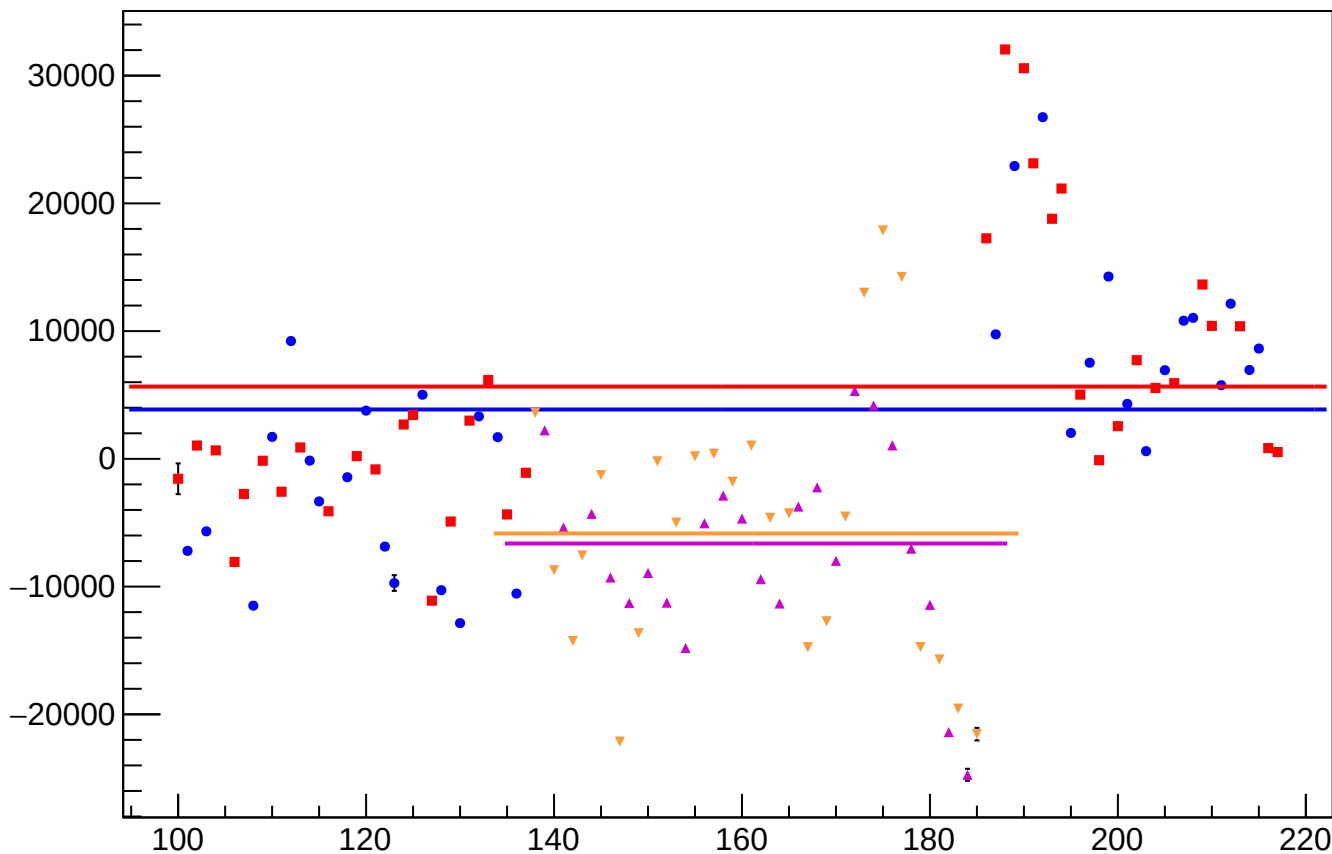
Right: 188.668+/-0.023 χ^2/NDF : 3689373.5/67

In: 202.211+/-0.025 χ^2/NDF :3297087.5/54

Out: 208.550+/-0.025 χ^2/NDF :4128029.3/60

All: 205.376+/-0.018 χ^2/NDF : 7456858.9/115

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3865.192+/-33.765 χ^2/NDF : 84419.5/31

Left Out: -5841.615+/-35.848 χ^2/NDF :63397.3/24

Right Out: 5657.369+/-32.109 χ^2/NDF : 105668.6/35

Left In: -6628.388+/-37.160 χ^2/NDF :21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

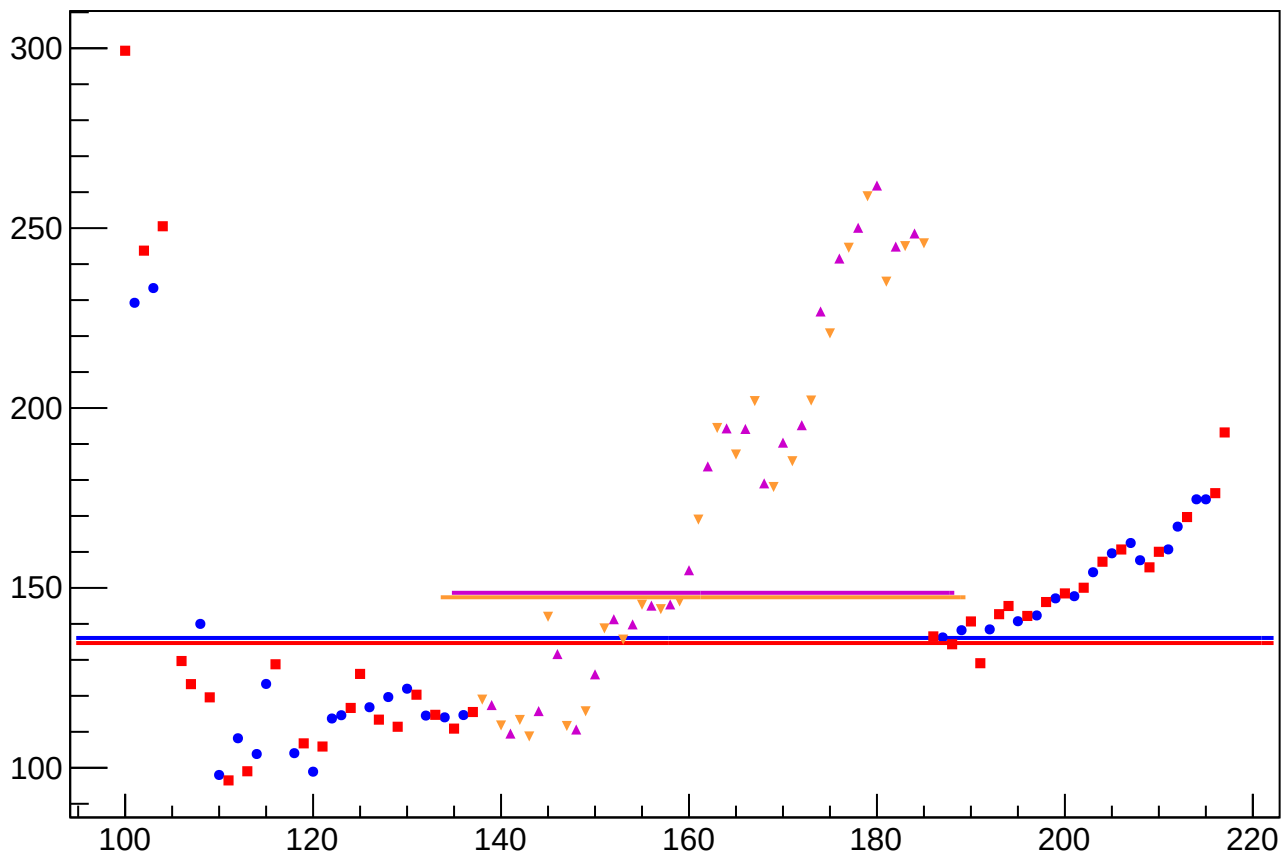
Right: 4806.315+/-23.268 χ^2/NDF : 191567.5/67

In: -880.426+/-24.990 χ^2/NDF :149837.6/54

Out: 538.648+/-23.917 χ^2/NDF :226158.0/60

All: -139.786+/-17.279 χ^2/NDF : 377678.6/111

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 136.091 ± 0.024 $\chi^2/\text{NDF}: 1280307.2/31$

Left Out: 147.396 ± 0.025 $\chi^2/\text{NDF}: 2517097.1/24$

Right Out: 134.678 ± 0.023 $\chi^2/\text{NDF}: 1457677.6/35$

Left In: 148.642 ± 0.026 $\chi^2/\text{NDF}: 2415531.9/22$

Left: 147.997 ± 0.018 $\chi^2/\text{NDF}: 4933793.6/47$

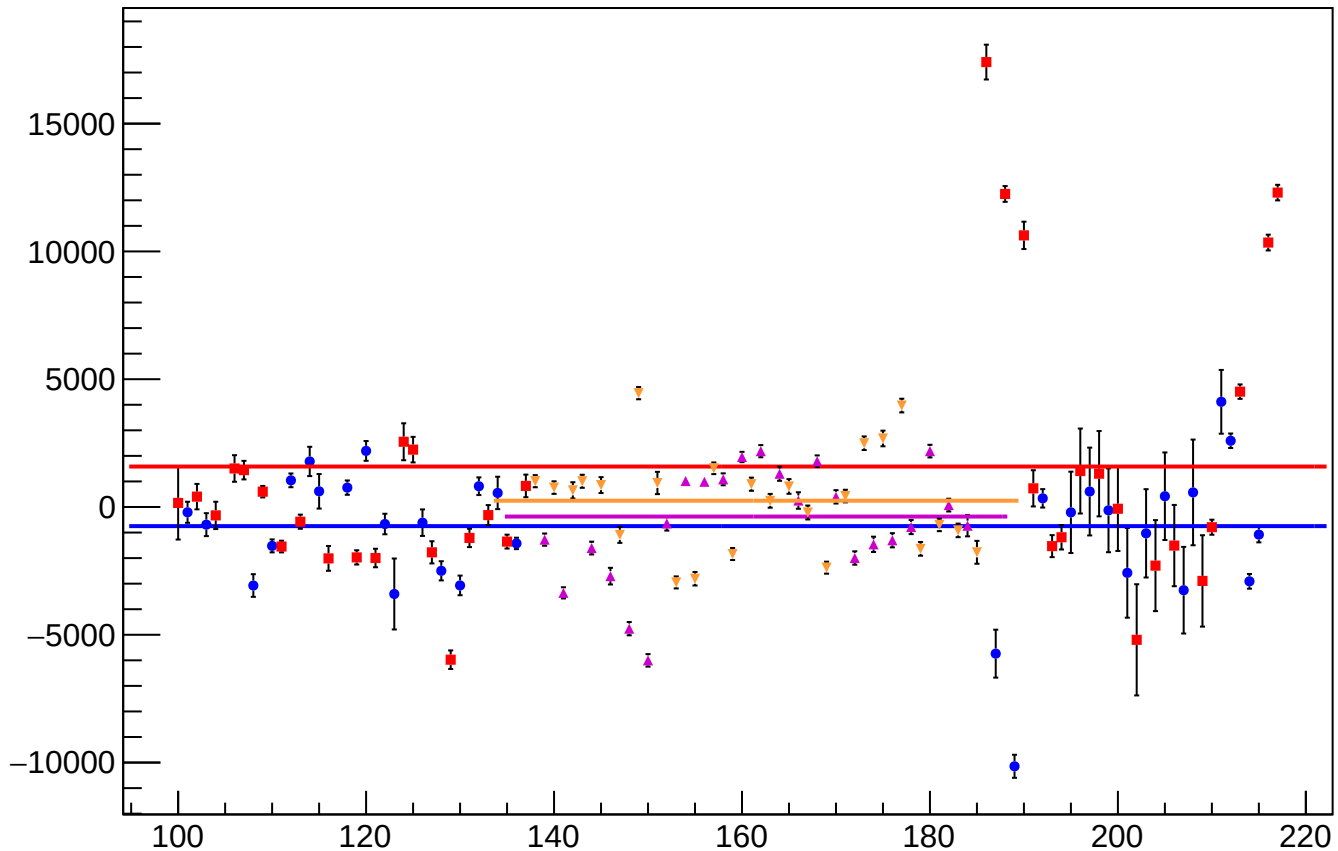
Right: 135.349 ± 0.016 $\chi^2/\text{NDF}: 2739823.8/67$

In: 141.767 ± 0.018 $\chi^2/\text{NDF}: 3820811.1/54$

Out: 140.340 ± 0.017 $\chi^2/\text{NDF}: 4114448.2/60$

All: 141.022 ± 0.012 $\chi^2/\text{NDF}: 7938665.9/115$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -748.696 ± 75.051 $\chi^2/\text{NDF}: 978.2/31$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 1582.746 ± 66.910 $\chi^2/\text{NDF}: 5652.1/35$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

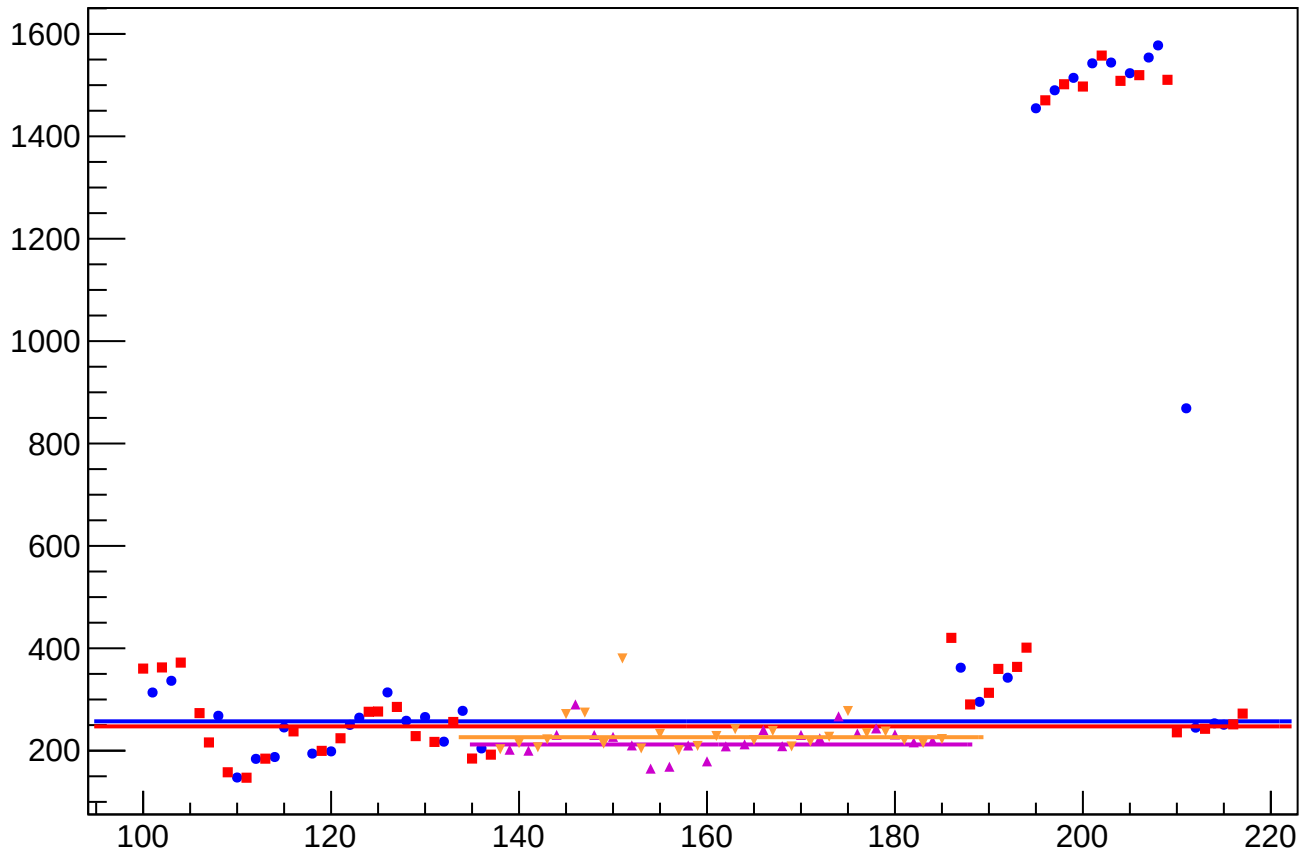
Right: 550.290 ± 49.943 $\chi^2/\text{NDF}: 7168.0/67$

In: -495.508 ± 42.683 $\chi^2/\text{NDF}: 2793.2/54$

Out: 767.302 ± 41.781 $\chi^2/\text{NDF}: 7250.4/60$

All: 149.382 ± 29.857 $\chi^2/\text{NDF}: 10490.7/115$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.373+/-0.053 χ^2/NDF : 10198042.4/31

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 247.466+/-0.047 χ^2/NDF : 9287288.2/35

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

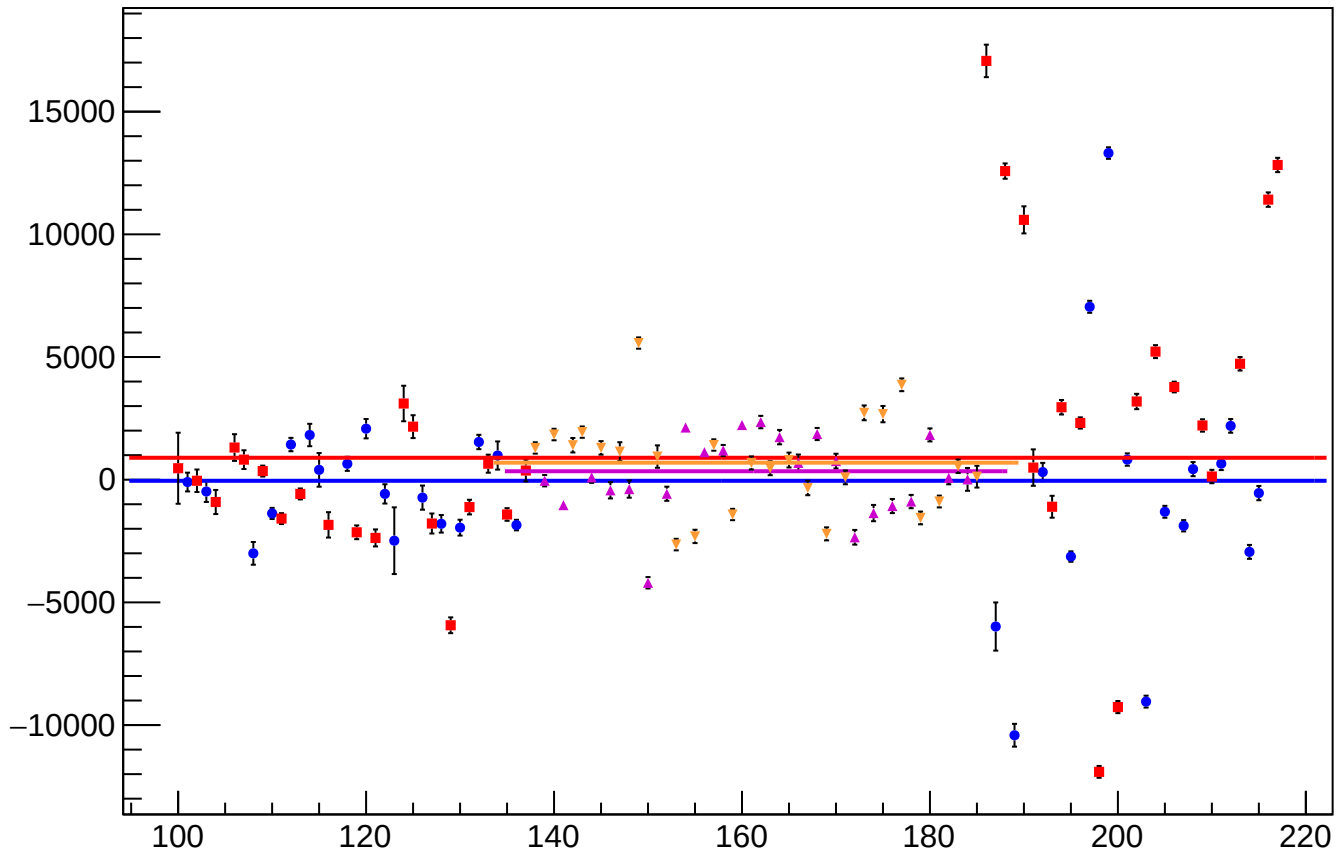
Right: 251.853+/-0.035 χ^2/NDF : 19504746.9/67

In: 226.774+/-0.030 χ^2/NDF : 11281140.7/54

Out: 234.599+/-0.030 χ^2/NDF : 9930287.1/60

All: 230.770+/-0.021 χ^2/NDF : 21245760.1/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -44.368 ± 54.086 χ^2/NDF : 6784.1/31

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: 894.210 ± 52.448 χ^2/NDF : 11658.0/35

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

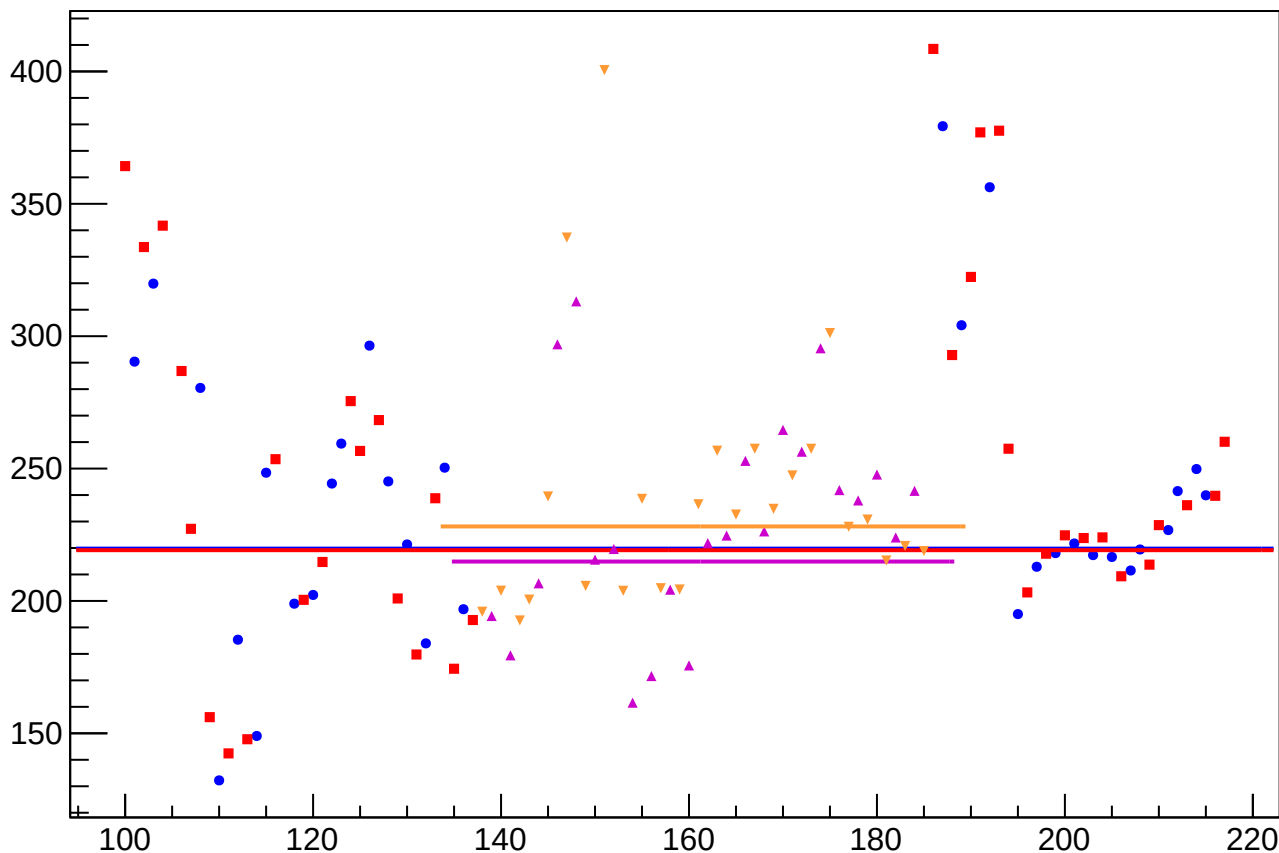
Right: 439.346 ± 37.652 χ^2/NDF : 18597.4/67

In: 154.216 ± 37.838 χ^2/NDF : 7795.6/54

Out: 797.637 ± 37.706 χ^2/NDF : 13087.1/60

All: 477.049 ± 26.709 χ^2/NDF : 21027.8/115

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.759 ± 0.038 $\chi^2/\text{NDF}: 1197179.5/31$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 219.173 ± 0.037 $\chi^2/\text{NDF}: 1888186.0/35$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

Right: 219.457 ± 0.027 $\chi^2/\text{NDF}: 3085486.5/67$

In: 217.267 ± 0.027 $\chi^2/\text{NDF}: 2243004.7/54$

Out: 223.507 ± 0.027 $\chi^2/\text{NDF}: 2744855.1/60$

All: 220.398 ± 0.019 $\chi^2/\text{NDF}: 5015152.5/115$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

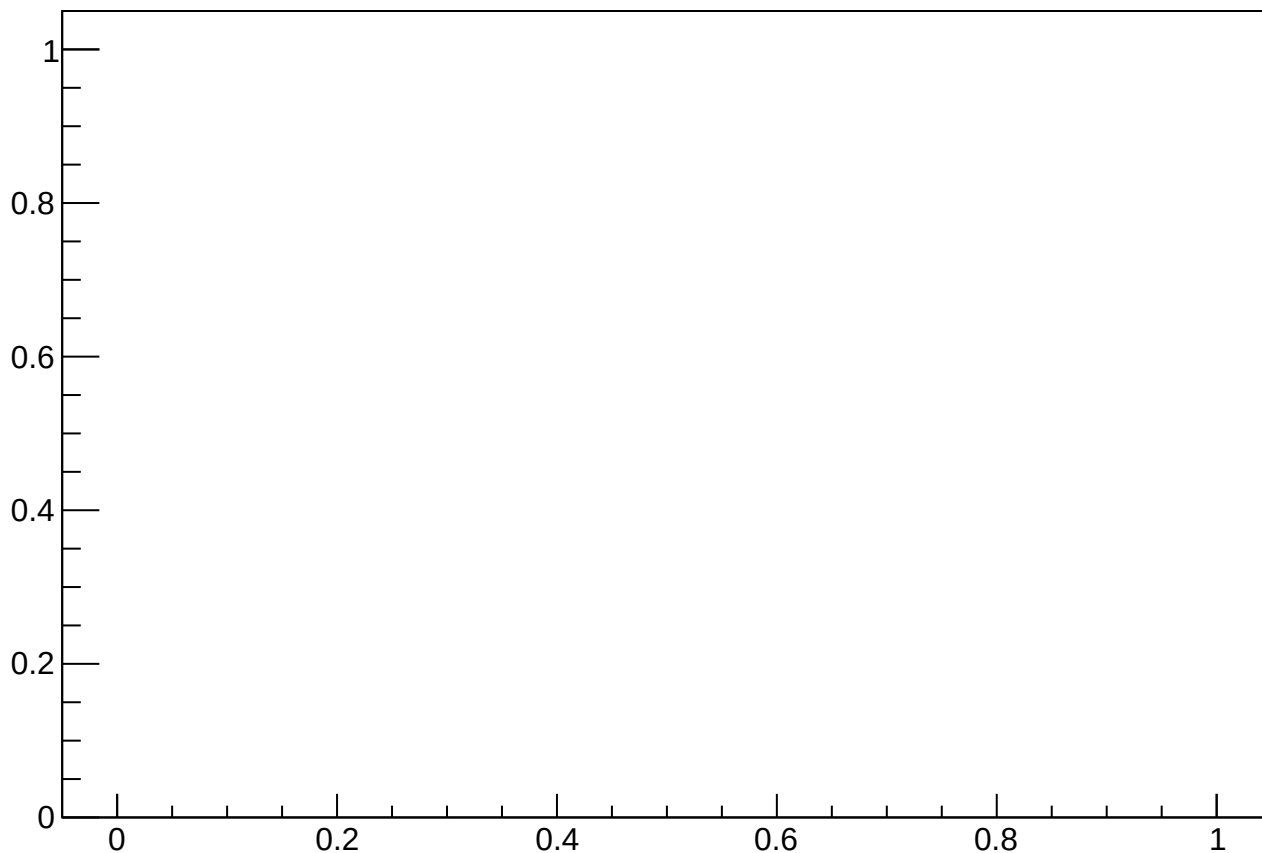
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

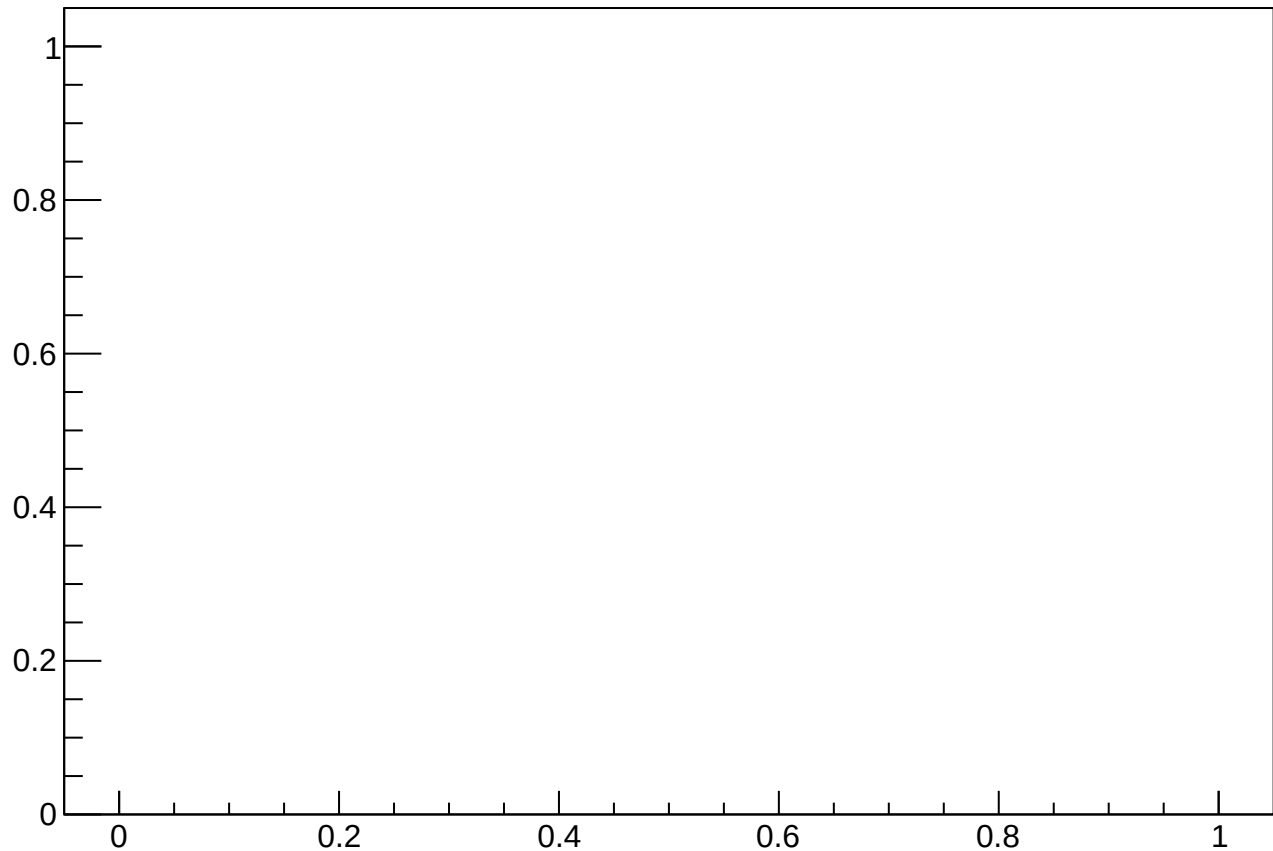
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

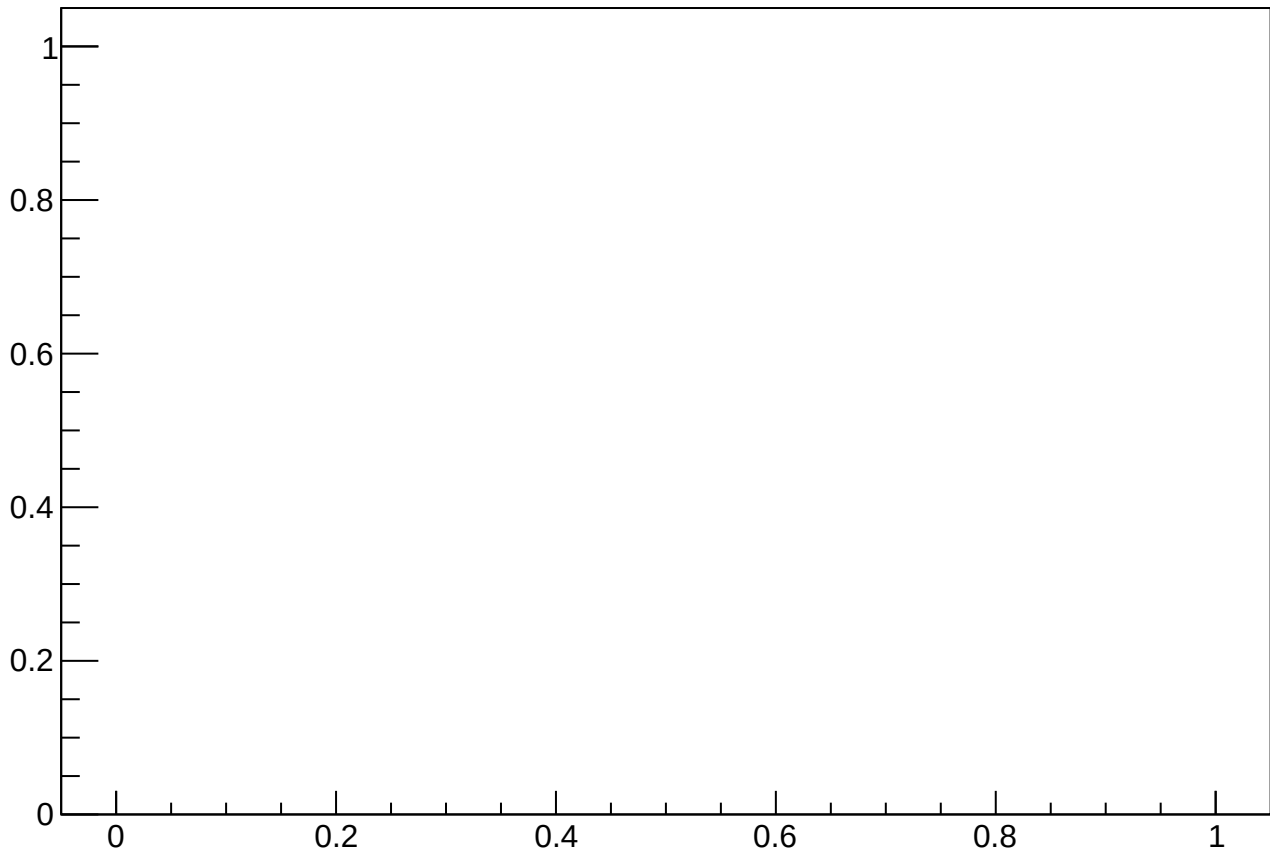
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

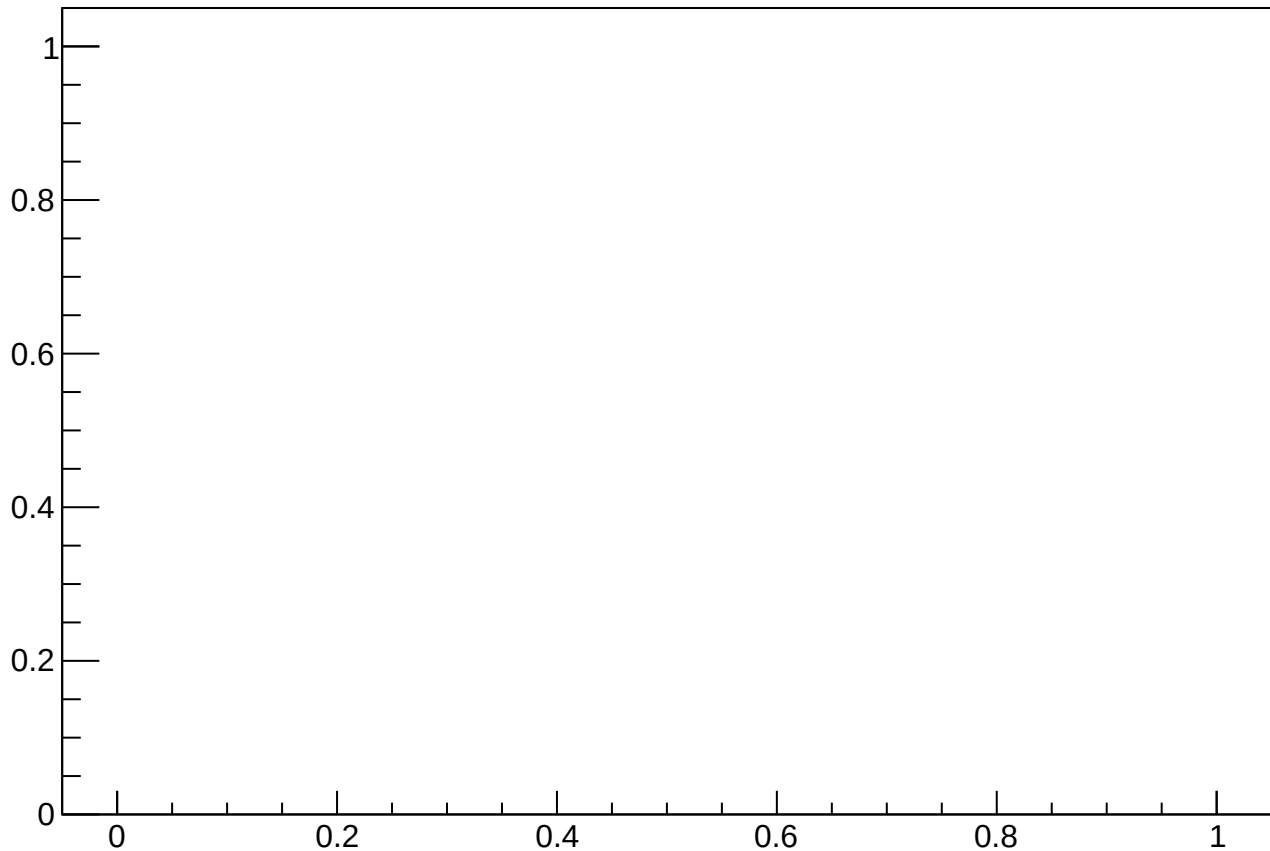
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

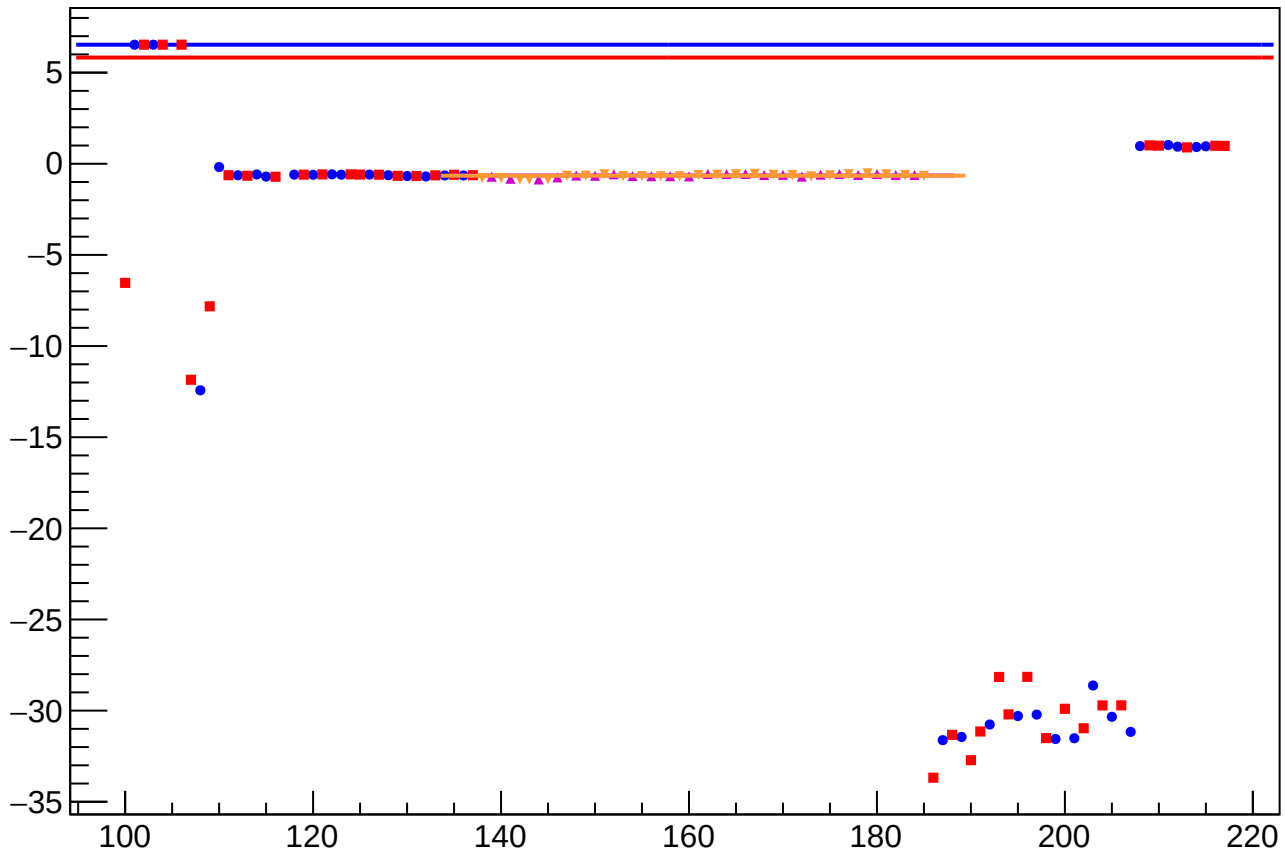
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 137004604088.1/31

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755968872698746.2/35

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

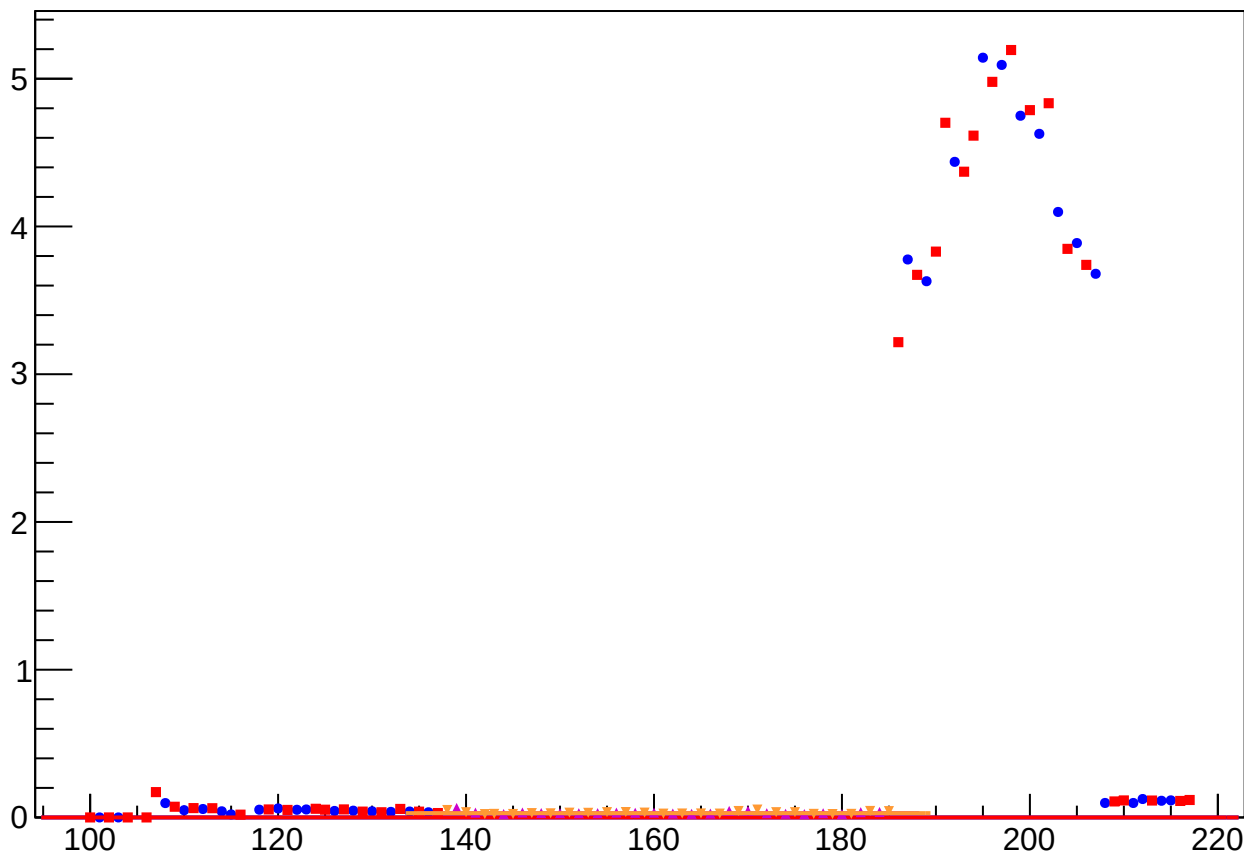
Right: 6.155+/-0.000 χ^2/NDF : 776109570876862.6/47

In: 6.530+/-0.000 χ^2/NDF : 971118249302.6/54

Out: 5.826+/-0.000 χ^2/NDF : 756679886241094.5/60

All: 6.153+/-0.000 χ^2/NDF : 77764299467649.5/107

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29577250.3/31

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31916350.7/35

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

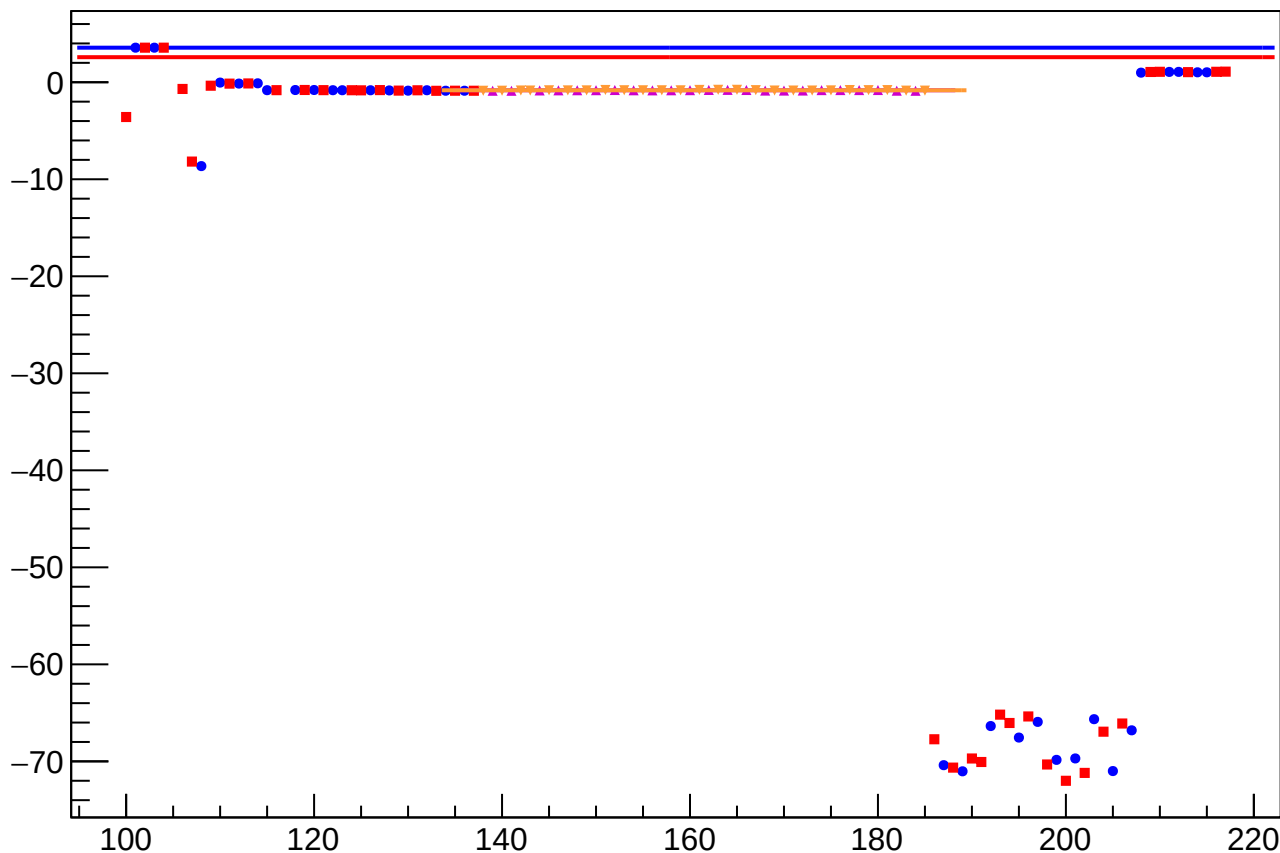
Right: 0.000+/-0.000 χ^2/NDF : 61493865.7/67

In: 0.000+/-0.000 χ^2/NDF :57754264.9/54

Out: 0.000+/-0.000 χ^2/NDF :61883676.8/60

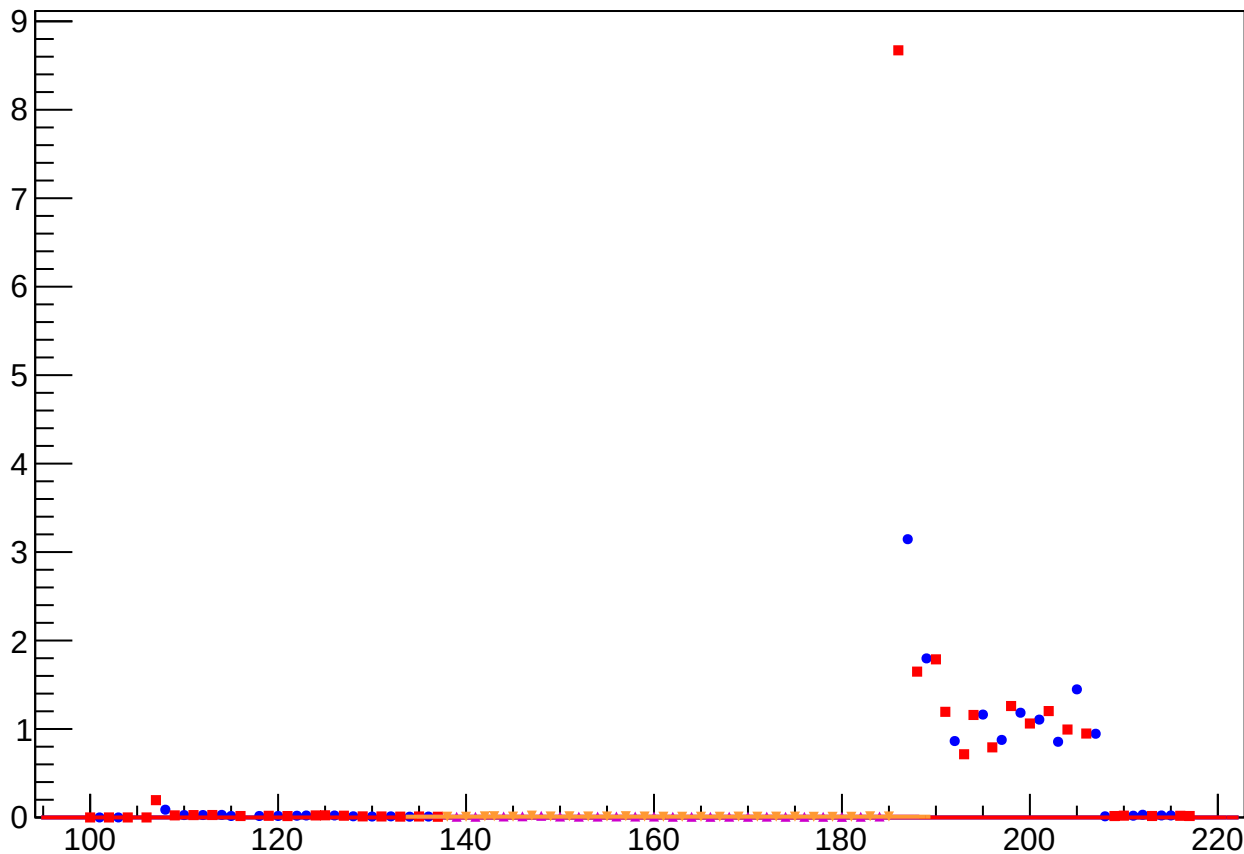
All: 0.000+/-0.000 χ^2/NDF : 119638389.6/115

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 553856763080.9/31	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382380568206193.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253555643634191.2/35	In: 3.560+/-0.000	χ^2/NDF : 4234291942335.3/54
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255786468275743.8
		All: 3.038+/-0.000	χ^2/NDF : 13881049271593.8

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26952182.6/31

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29536537.1/35

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

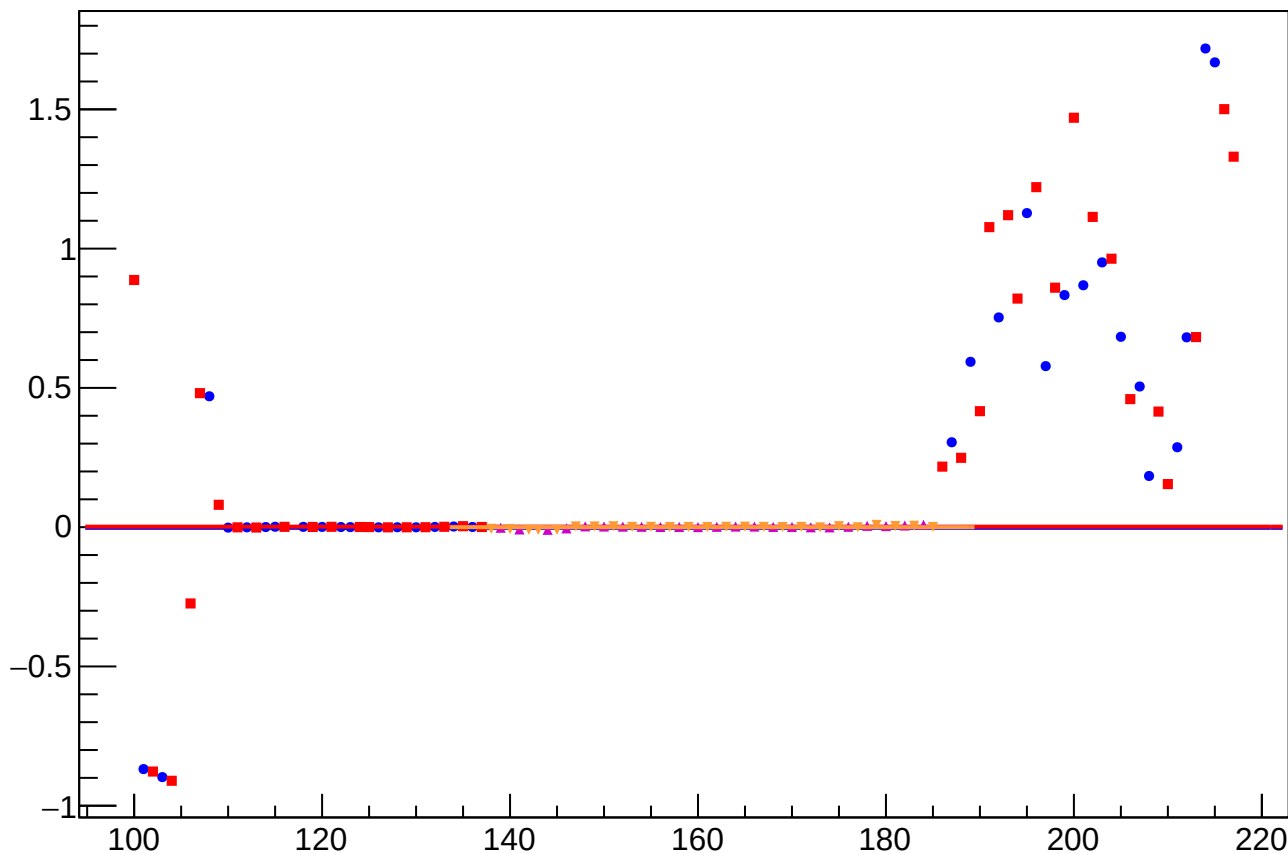
Right: 0.000+/-0.000 χ^2/NDF : 56488943.5/67

In: 0.000+/-0.000 χ^2/NDF :56745592.8/54

Out: 0.000+/-0.000 χ^2/NDF :61050189.5/60

All: 0.000+/-0.000 χ^2/NDF : 117796474.4/115

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797189528.9/31

Left: 0.000 ± 0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

Right: -0.000 ± 0.000 χ^2/NDF : 12855555509.0/67

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044218268.8/35

In: -0.000 ± 0.000 χ^2/NDF : 9910094015.9/54

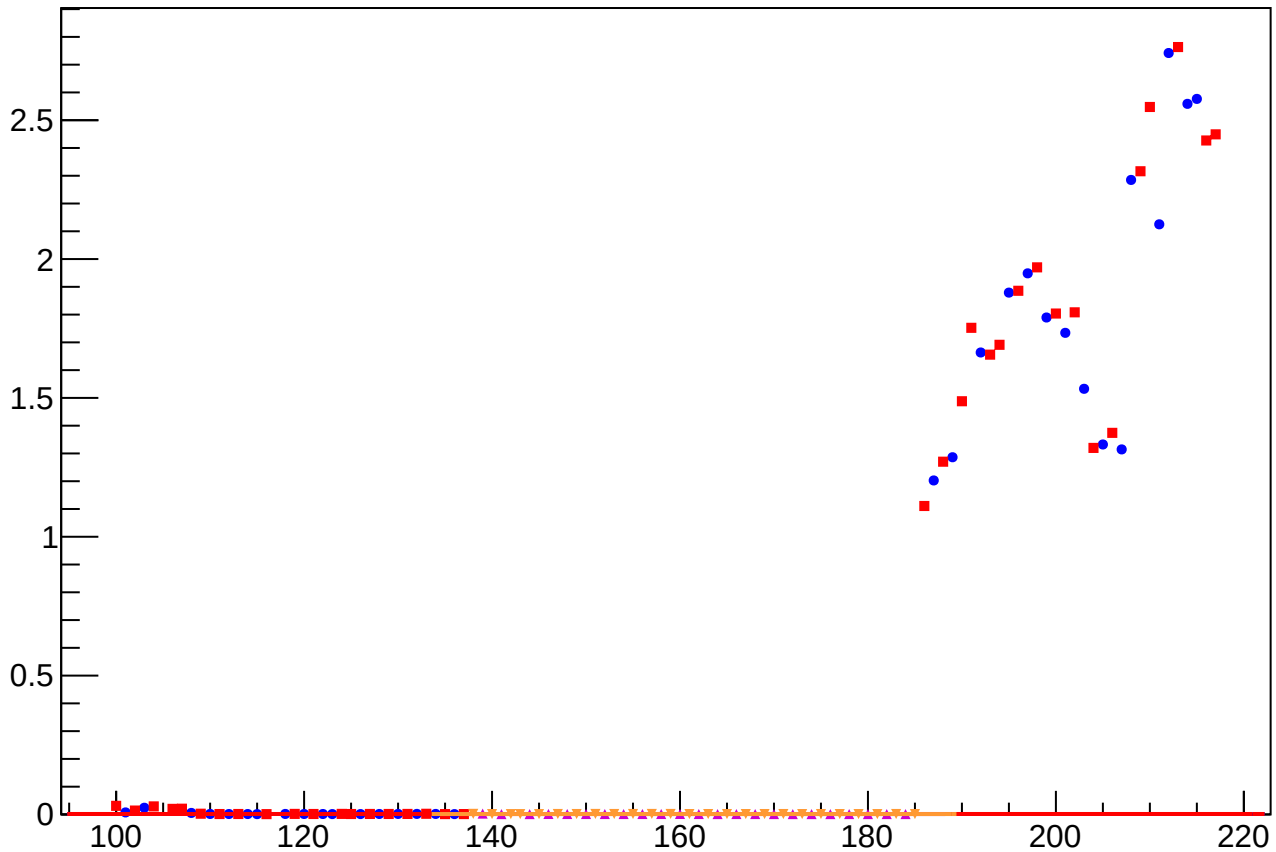
Out: 0.000 ± 0.000 χ^2/NDF : 3200457824.7/60

Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

All: 0.000 ± 0.000 χ^2/NDF : 13110923327.6/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22631303.0/31

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25588681.5/35

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

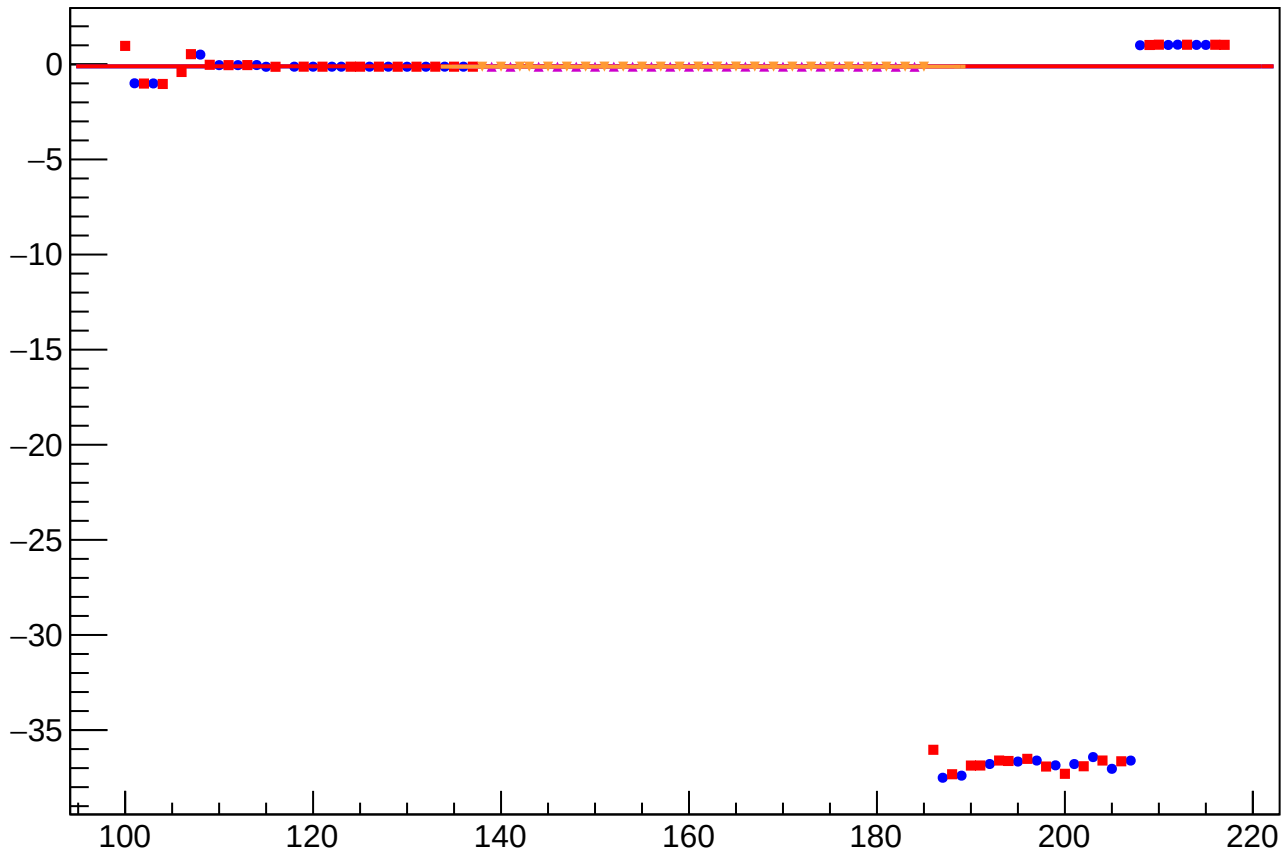
Right: 0.002+/-0.000 χ^2/NDF : 48227974.5/67

In: 0.002+/-0.000 χ^2/NDF :23344408.7/54

Out: 0.002+/-0.000 χ^2/NDF :26265500.4/60

All: 0.002+/-0.000 χ^2/NDF : 49610541.1/115

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.109+/-0.000 χ^2/NDF : 92062978438.5/31

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.102+/-0.000 χ^2/NDF : 98579699567.9/35

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

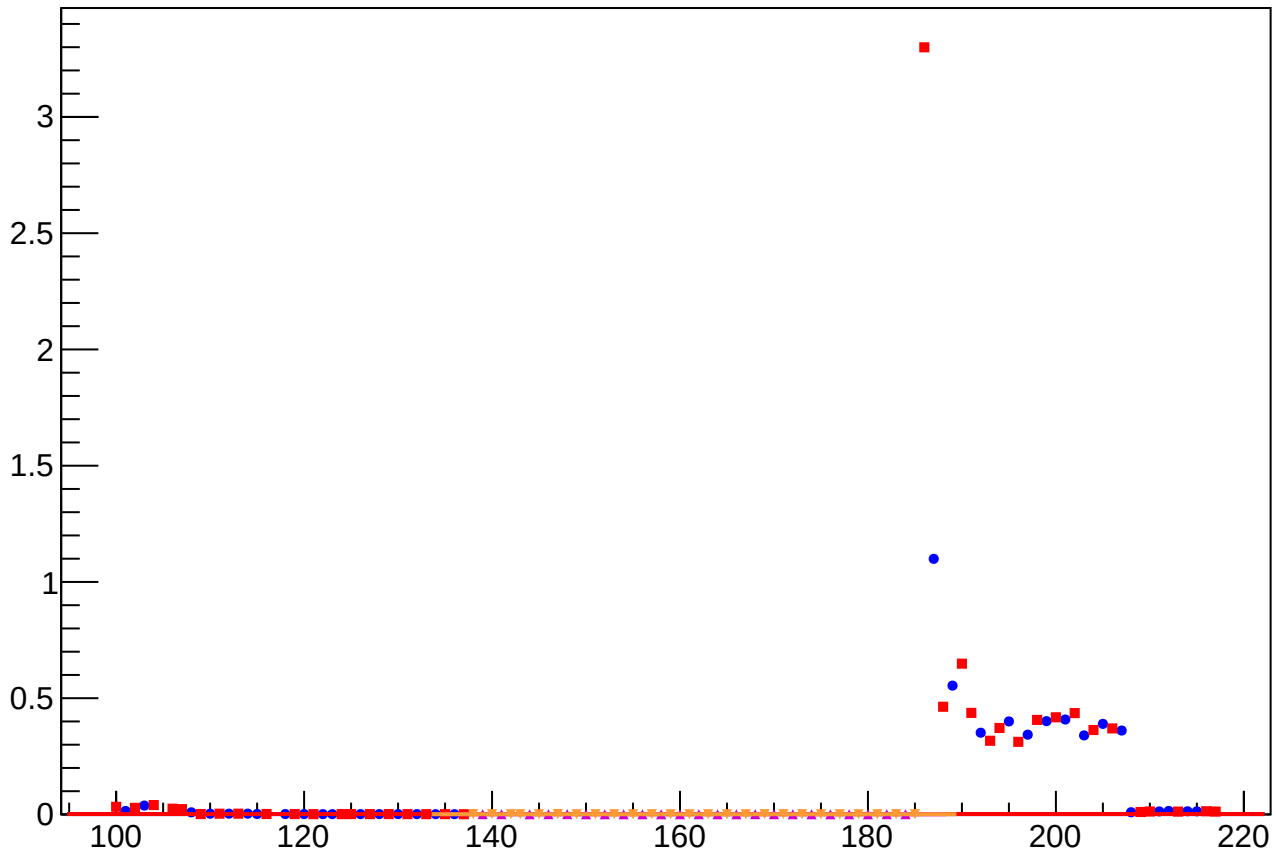
Right: -0.106+/-0.000 χ^2/NDF : 190681608645.0/67

In: -0.120+/-0.000 χ^2/NDF : 92367575270.9/54

Out: -0.119+/-0.000 χ^2/NDF : 99242573871.5/60

All: -0.119+/-0.000 χ^2/NDF : 191611716082.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 21265493.7/31

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 23779297.8/35

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

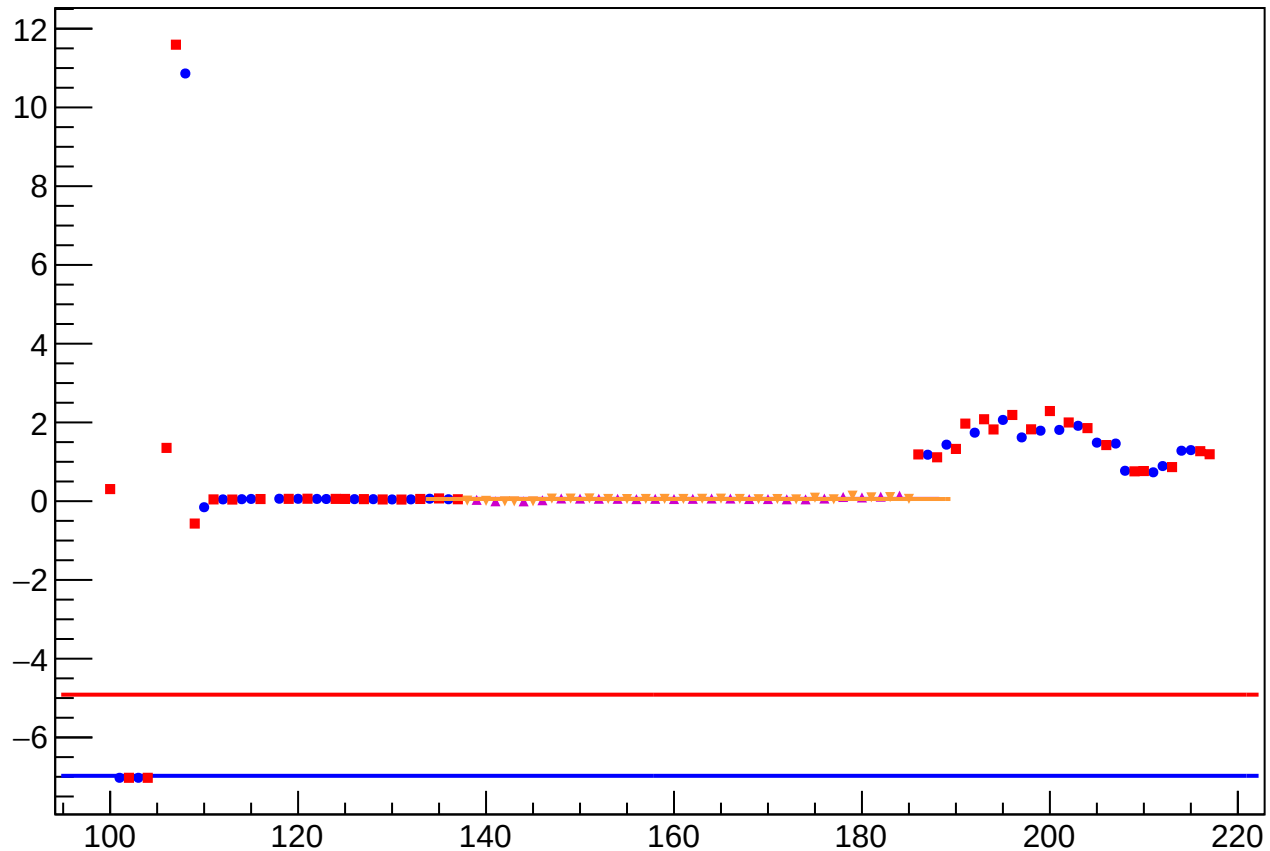
Right: 0.002+/-0.000 χ^2/NDF : 45044846.6/67

In: 0.001+/-0.000 χ^2/NDF :23929793.4/54

Out: 0.001+/-0.000 χ^2/NDF :26921475.0/60

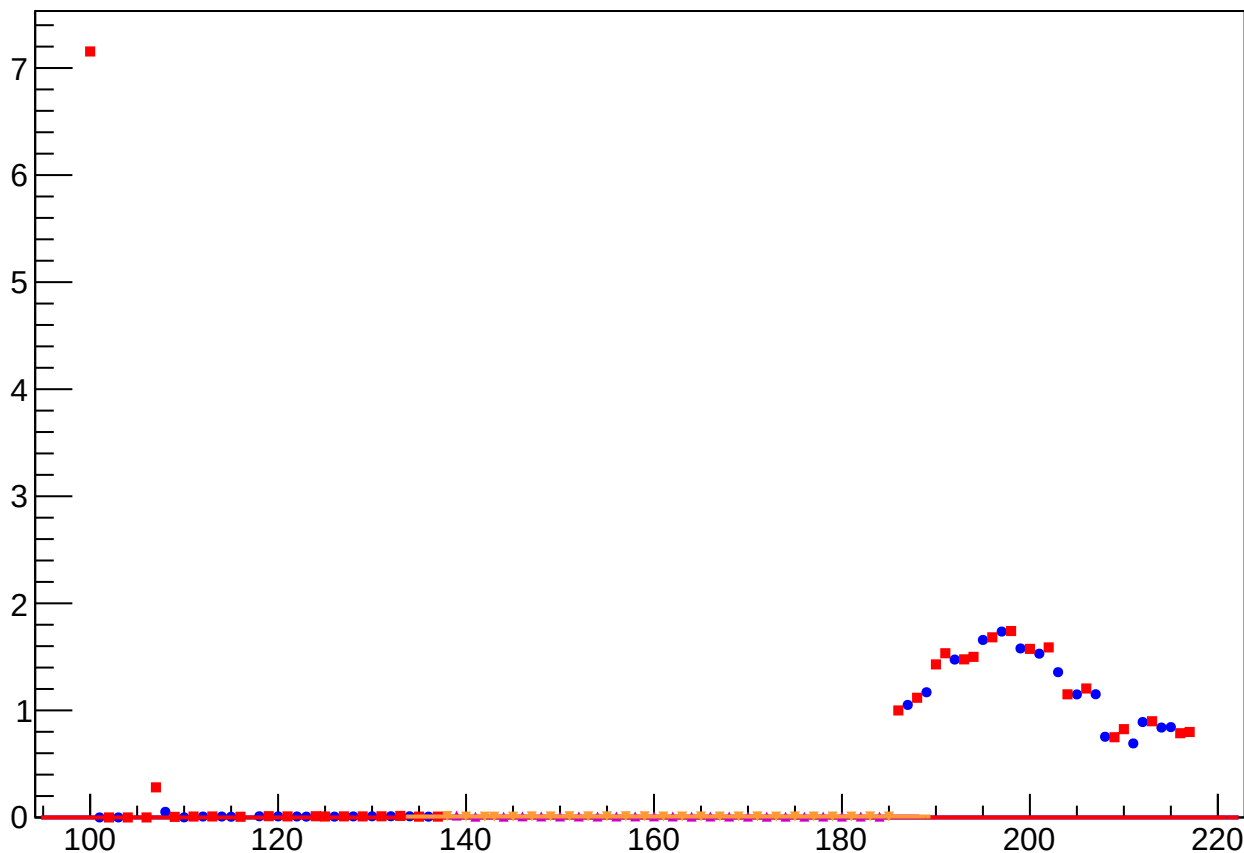
All: 0.001+/-0.000 χ^2/NDF : 50853246.8/115

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763062881104.3/31$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430304151180569.7$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348903601656.3/35$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605584451327.4/54$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175587633014.5/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435821075614$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28961304.6/31

Left Out: 0.009+/-0.000 χ^2/NDF :513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31354075.2/35

Left In: 0.009+/-0.000 χ^2/NDF :636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

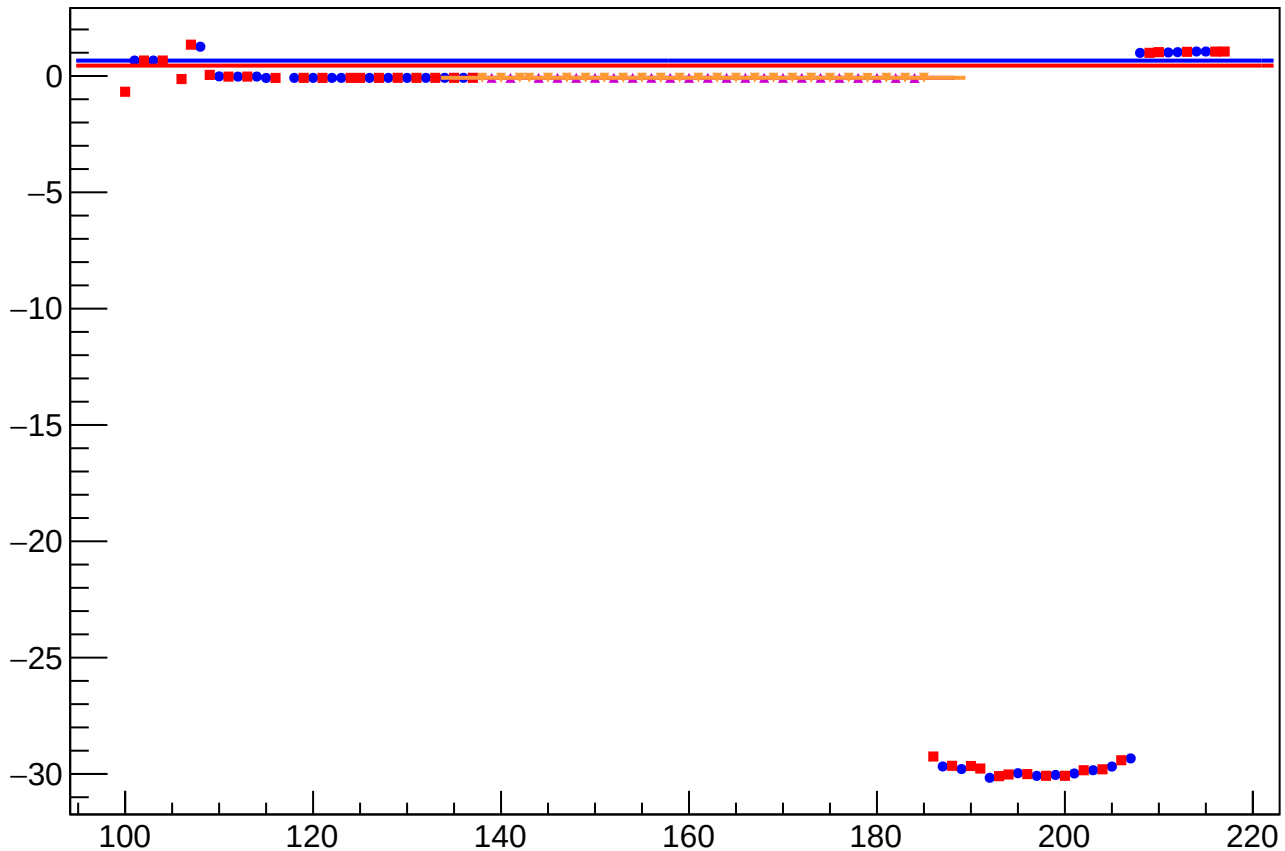
Right: 0.000+/-0.000 χ^2/NDF : 60315688.8/67

In: 0.000+/-0.000 χ^2/NDF :56596669.3/54

Out: 0.000+/-0.000 χ^2/NDF :60380779.6/60

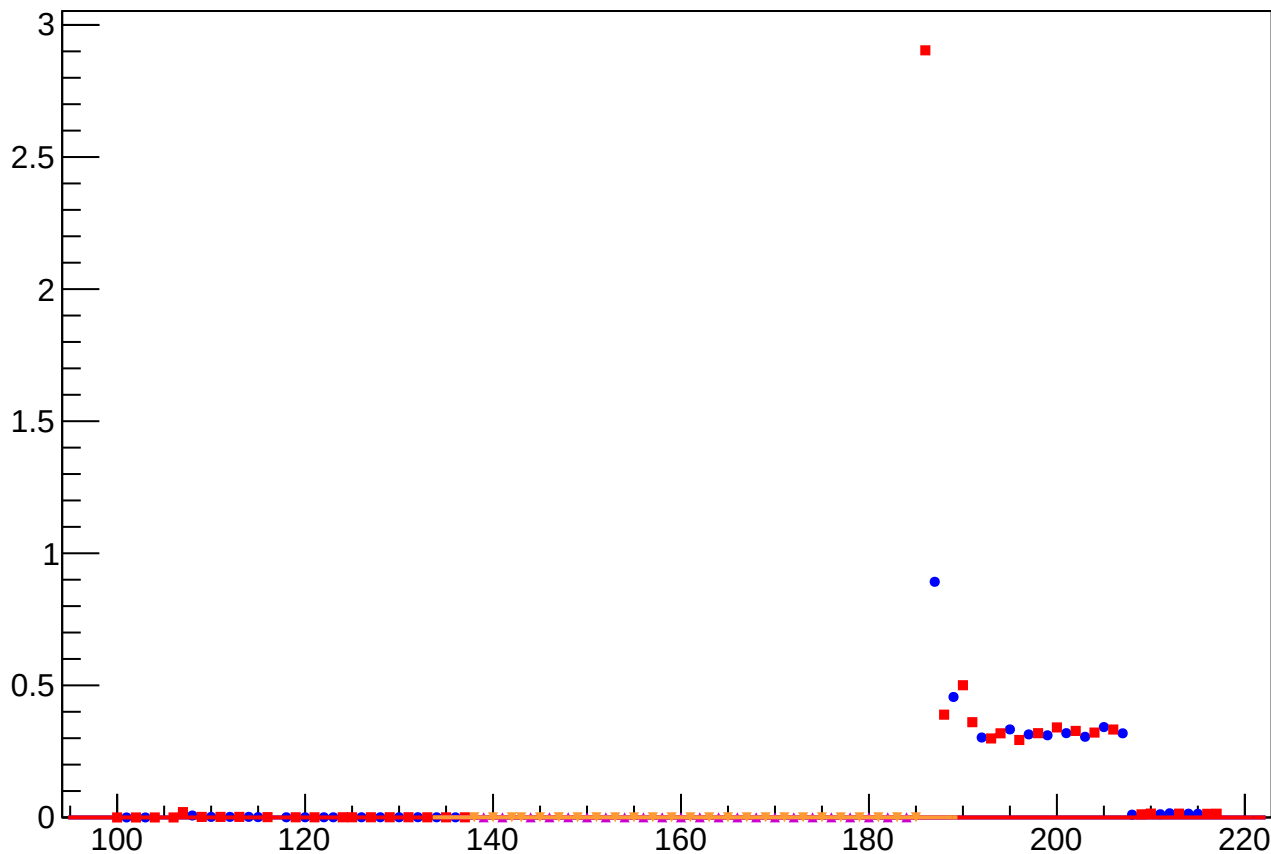
All: 0.000+/-0.000 χ^2/NDF : 116977942.0/115

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5648377896693.6/31	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474062605183419.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405485244489401.0/35	In: 0.647+/-0.000	χ^2/NDF : 33908525559928.0/54
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420680035963237.9/6
		All: 0.537+/-0.000	χ^2/NDF : 51611302490053

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30358126.2/31

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31883858.8/35

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

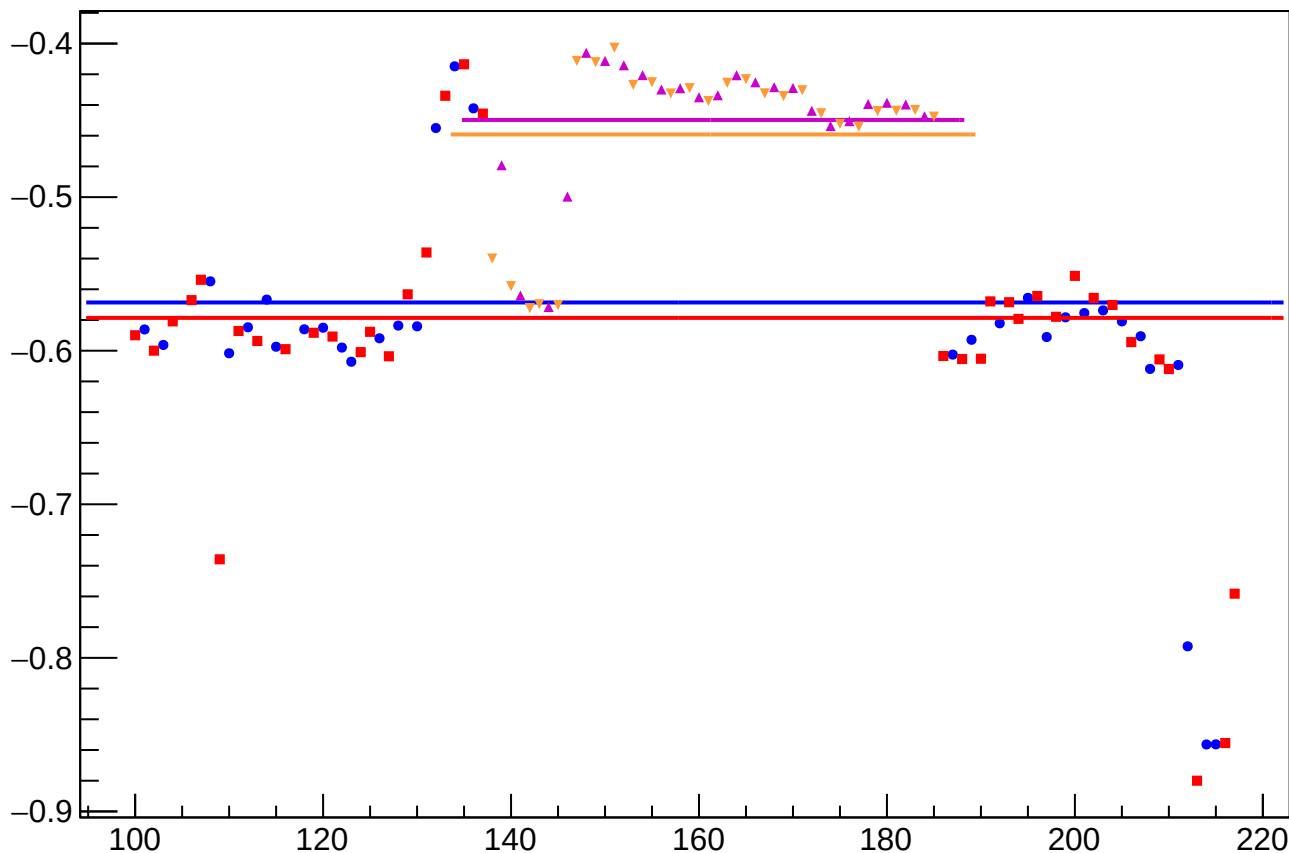
Right: 0.000+/-0.000 χ^2/NDF : 62241994.0/67

In: 0.000+/-0.000 χ^2/NDF : 61325175.7/54

Out: 0.000+/-0.000 χ^2/NDF : 64586779.2/60

All: 0.000+/-0.000 χ^2/NDF : 125912372.4/115

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.569 $\pm$ 0.000 χ^2 /NDF: 105007659.3/31

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113808762.6/24

Right Out: -0.579 $\pm$ 0.000 χ^2 /NDF: 119587299.5/35

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

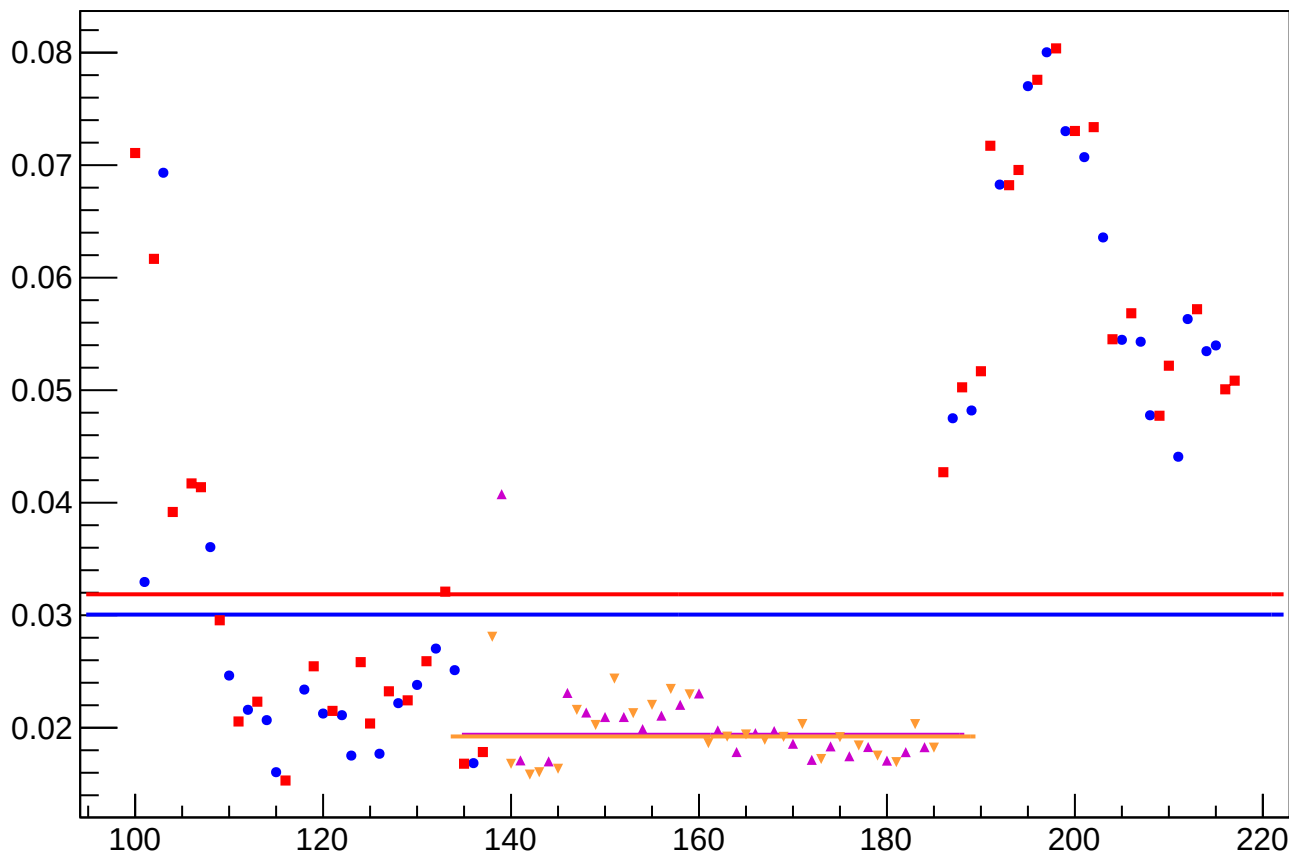
Right: -0.574 $\pm$ 0.000 χ^2 /NDF: 225264256.8/67

In: -0.481 $\pm$ 0.000 χ^2 /NDF: 320778108.6/54

Out: -0.489 $\pm$ 0.000 χ^2 /NDF: 375079250.4/60

All: -0.485 $\pm$ 0.000 χ^2 /NDF: 697327296.3/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7502578.5/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501253.7/24

Right Out: 0.032 $\pm$ 0.000 χ^2 /NDF: 7597554.7/35

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:656155.9/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1158298.6/47

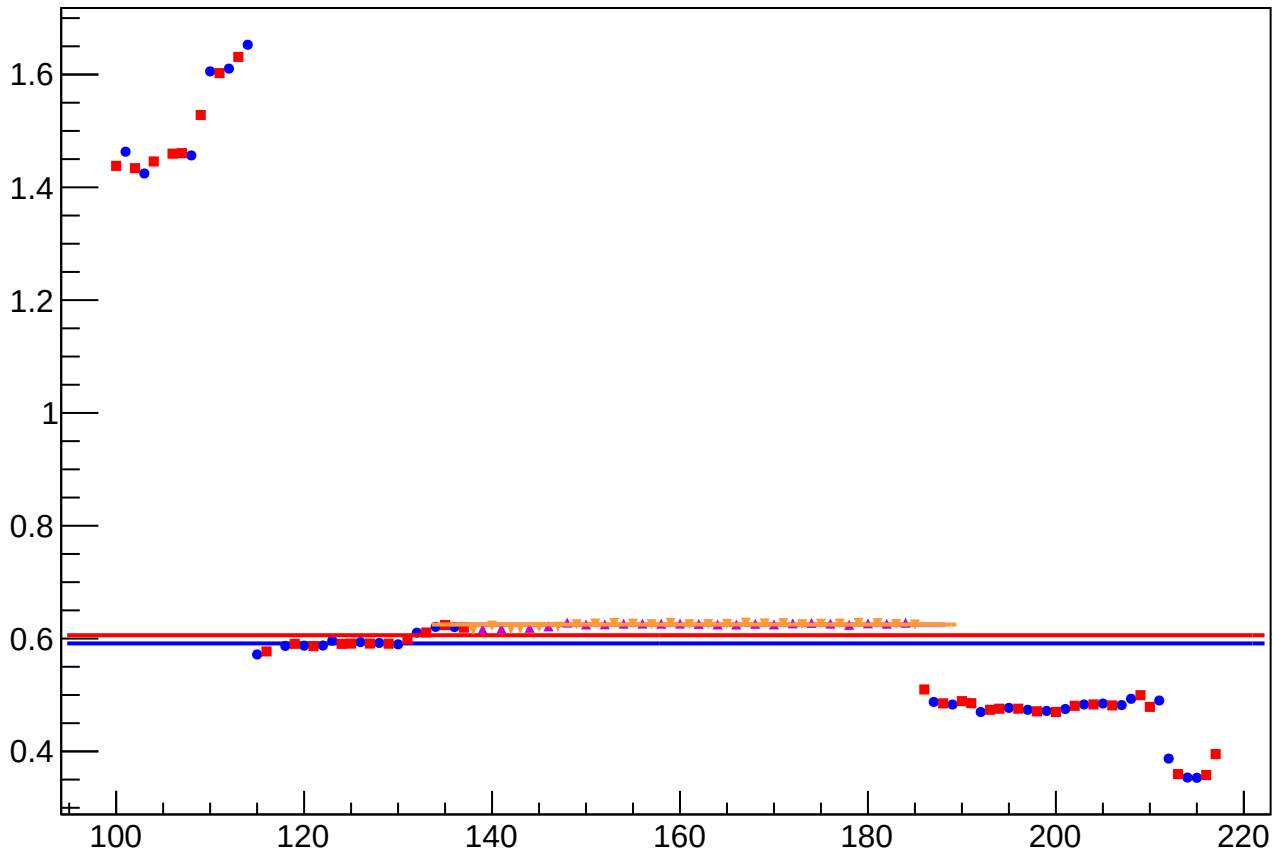
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 15143392.0/67

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10414061.1/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11270167.9/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 21685315.9/115

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.591 $\pm$ 0.000 χ^2 /NDF: 5490821464.7/31

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF: 1442225.6/24

Right Out: 0.606 $\pm$ 0.000 χ^2 /NDF: 6584330350.0/35

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF: 1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

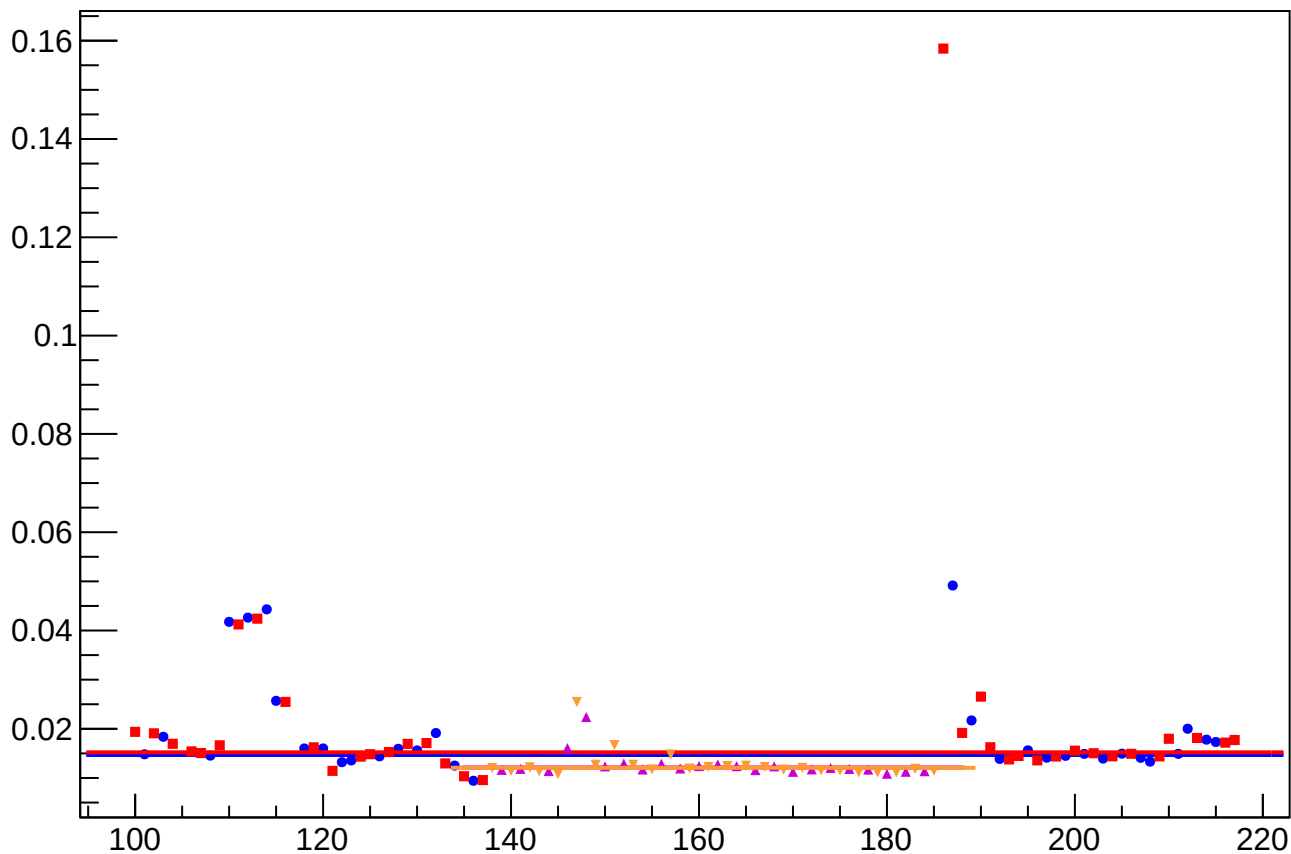
Right: 0.599 $\pm$ 0.000 χ^2 /NDF: 12082830836.0/67

In: 0.612 $\pm$ 0.000 χ^2 /NDF: 5541481714.2/54

Out: 0.618 $\pm$ 0.000 χ^2 /NDF: 6601970598.2/60

All: 0.615 $\pm$ 0.000 χ^2 /NDF: 12146860676.3/121

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1848945.0/31

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2208806.4/35

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

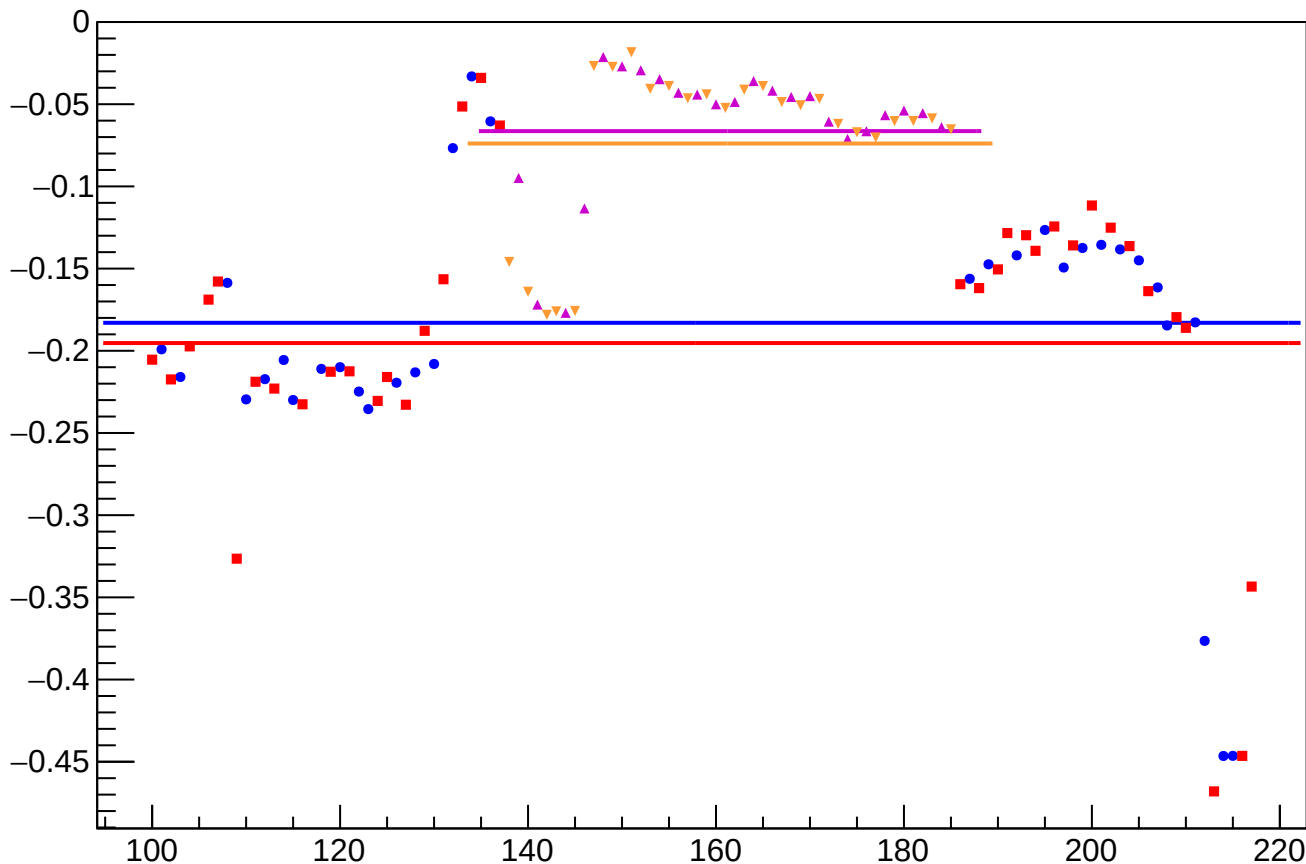
Right: 0.015+/-0.000 χ^2/NDF : 4078607.2/67

In: 0.013+/-0.000 χ^2/NDF : 2912814.5/54

Out: 0.013+/-0.000 χ^2/NDF : 3762728.1/60

All: 0.013+/-0.000 χ^2/NDF : 6678381.5/115

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.183+/-0.000 χ^2/NDF : 119823010.0/31

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134102420.4/35

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

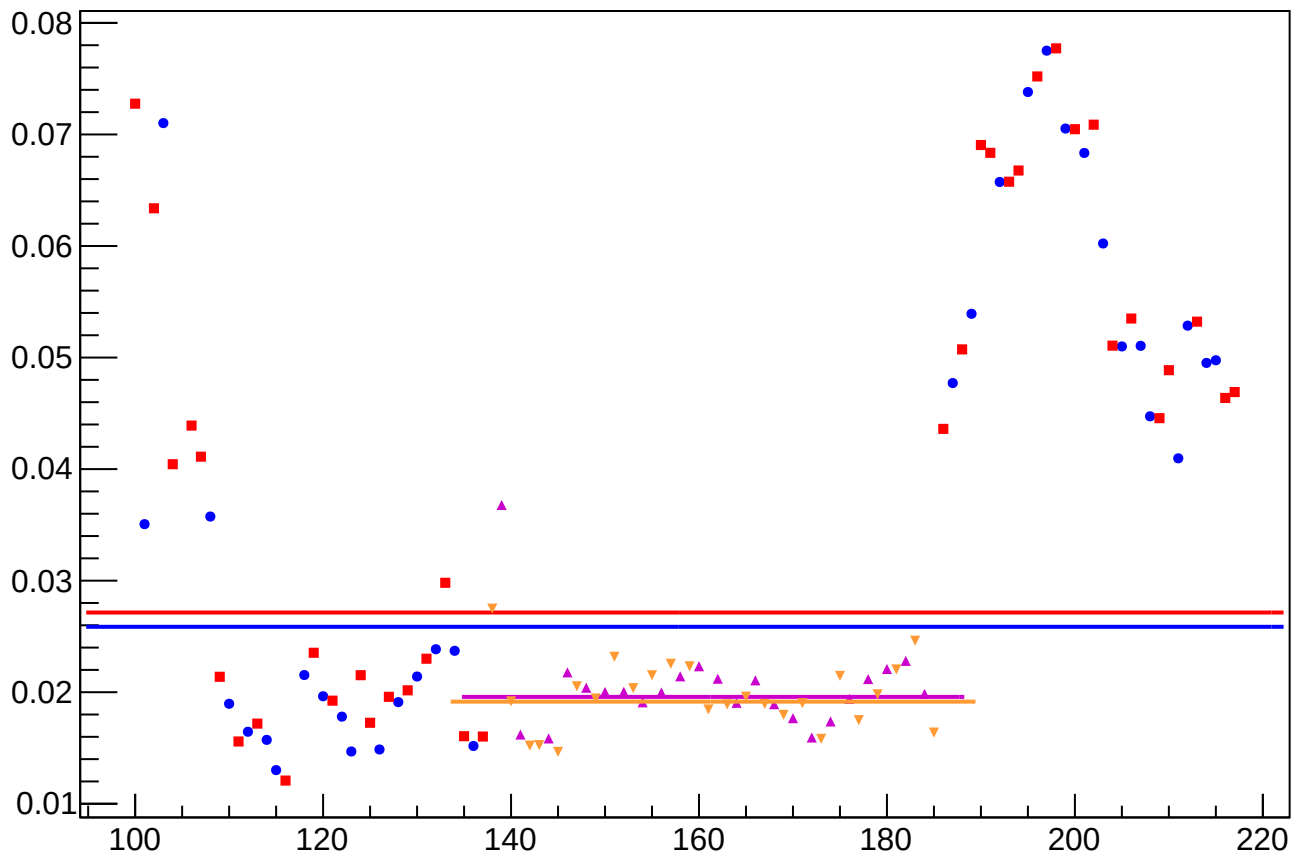
Right: -0.189+/-0.000 χ^2/NDF : 255223685.5/67

In: -0.103+/-0.000 χ^2/NDF : 356462244.4/54

Out: -0.109+/-0.000 χ^2/NDF : 419520773.7/60

All: -0.106+/-0.000 χ^2/NDF : 777114039.6/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 ± 0.000 χ^2/NDF : 8789078.4/31

Left Out: 0.019 ± 0.000 χ^2/NDF : 641027.3/24

Right Out: 0.027 ± 0.000 χ^2/NDF : 9292400.1/35

Left In: 0.020 ± 0.000 χ^2/NDF : 651328.7/22

Left: 0.019 ± 0.000 χ^2/NDF : 1299461.3/47

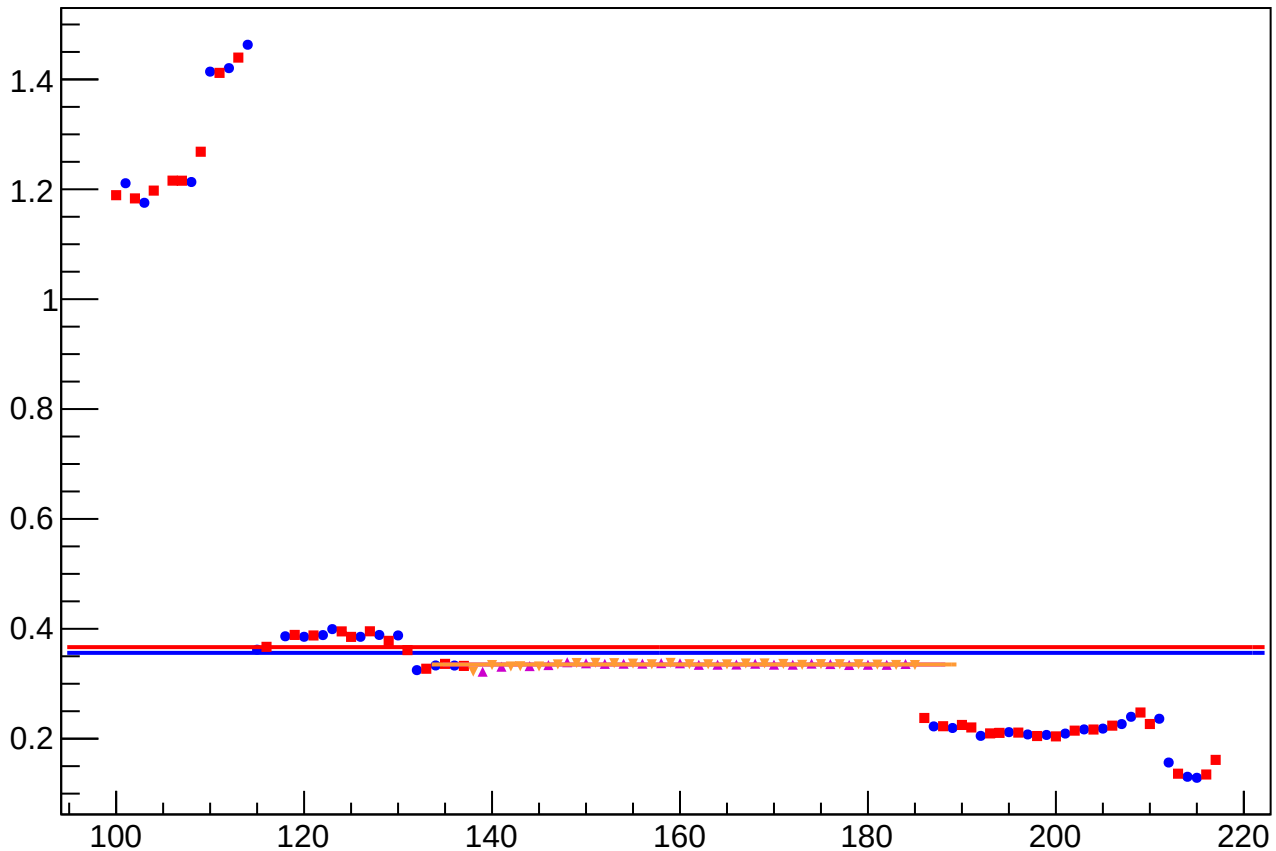
Right: 0.027 ± 0.000 χ^2/NDF : 18109580.1/67

In: 0.022 ± 0.000 χ^2/NDF : 10371450.6/54

Out: 0.021 ± 0.000 χ^2/NDF : 11472166.7/60

All: 0.022 ± 0.000 χ^2/NDF : 21843871.7/115

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.356+/-0.000 χ^2/NDF : 7930449959.1/31

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.367+/-0.000 χ^2/NDF : 9074851395.5/35

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

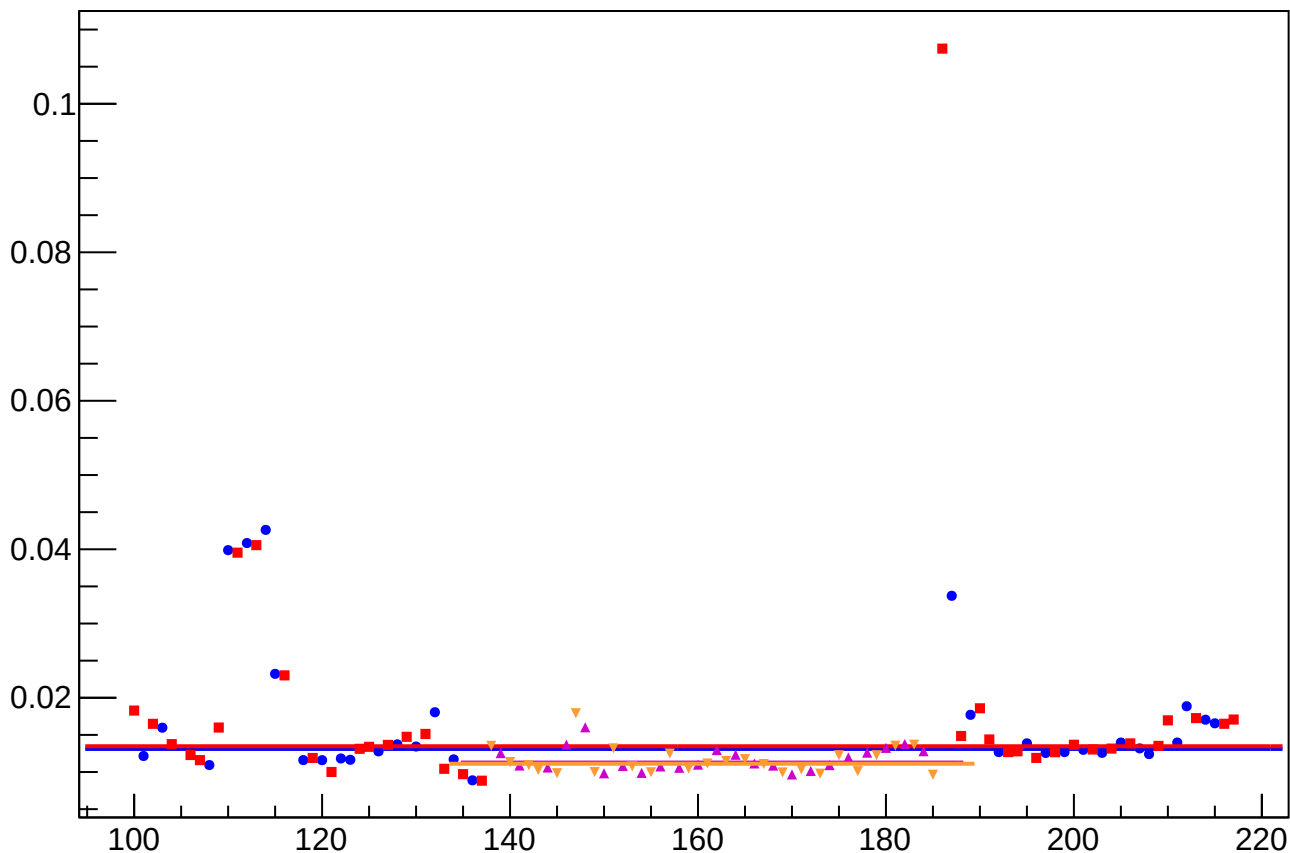
Right: 0.361+/-0.000 χ^2/NDF : 17010245957.2/67

In: 0.344+/-0.000 χ^2/NDF : 7955791507.1/54

Out: 0.347+/-0.000 χ^2/NDF : 9131382268.7/60

All: 0.346+/-0.000 χ^2/NDF : 17088798471.5/117

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1829139.1/31

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2209776.6/35

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

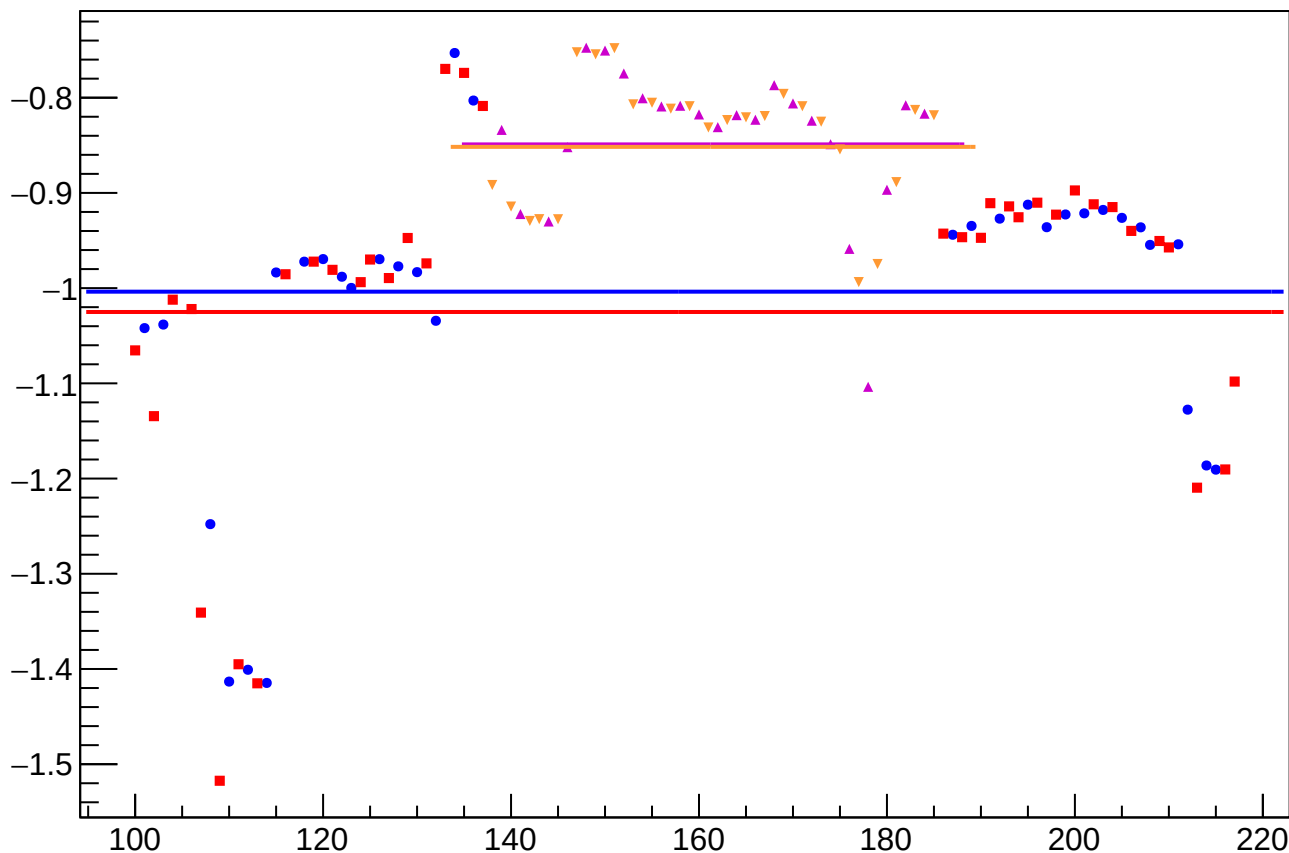
Right: 0.013+/-0.000 χ^2/NDF : 4050677.4/67

In: 0.012+/-0.000 χ^2/NDF : 2693054.2/54

Out: 0.012+/-0.000 χ^2/NDF : 3434728.1/60

All: 0.012+/-0.000 χ^2/NDF : 6127824.5/115

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 $\chi^2/\text{NDF}: 426603393.9/31$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.025 ± 0.000 $\chi^2/\text{NDF}: 577169915.1/35$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

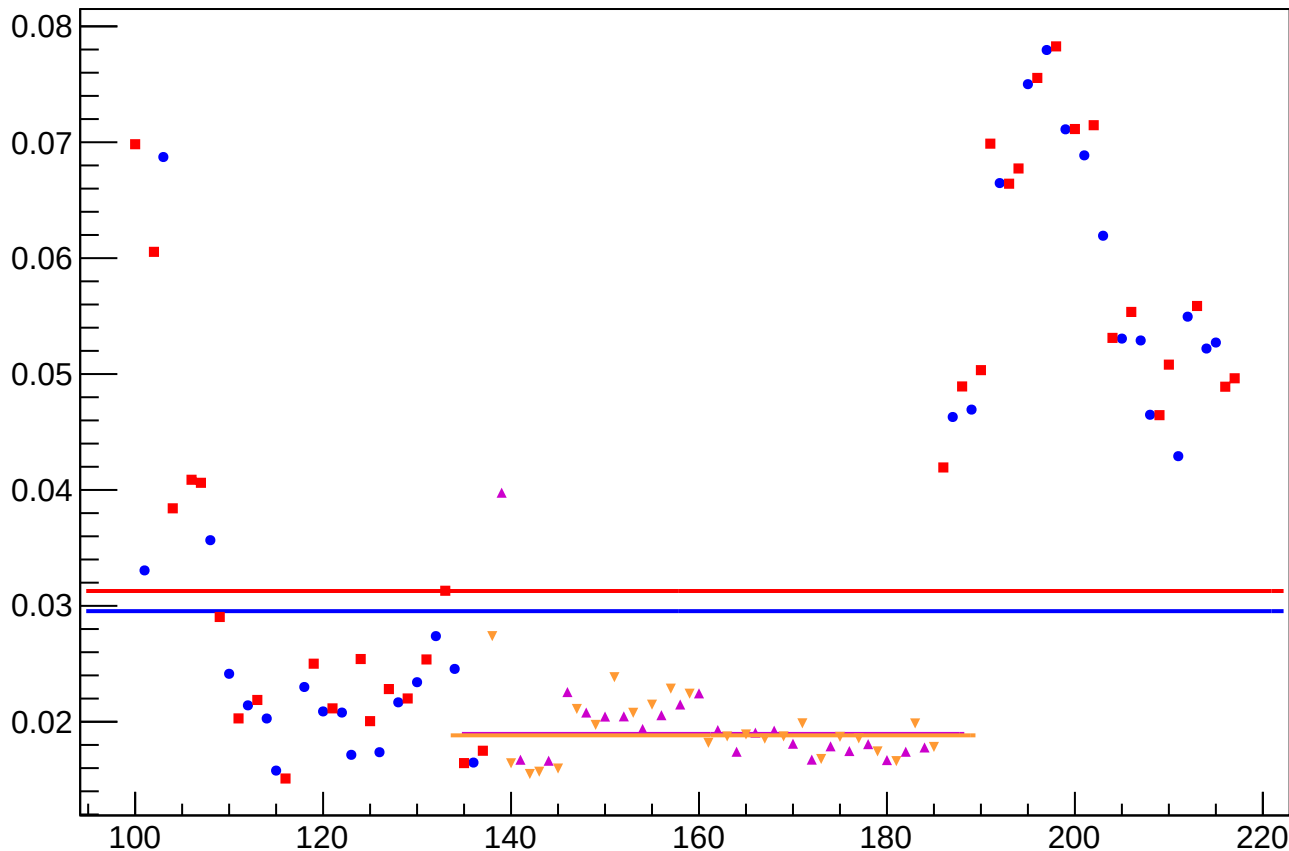
Right: -1.014 ± 0.000 $\chi^2/\text{NDF}: 1006920032.3/67$

In: -0.890 ± 0.000 $\chi^2/\text{NDF}: 929020211.5/54$

Out: -0.894 ± 0.000 $\chi^2/\text{NDF}: 1077189040.2/60$

All: -0.892 ± 0.000 $\chi^2/\text{NDF}: 2006803219.9/111$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7439380.8/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7511207.7/35

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

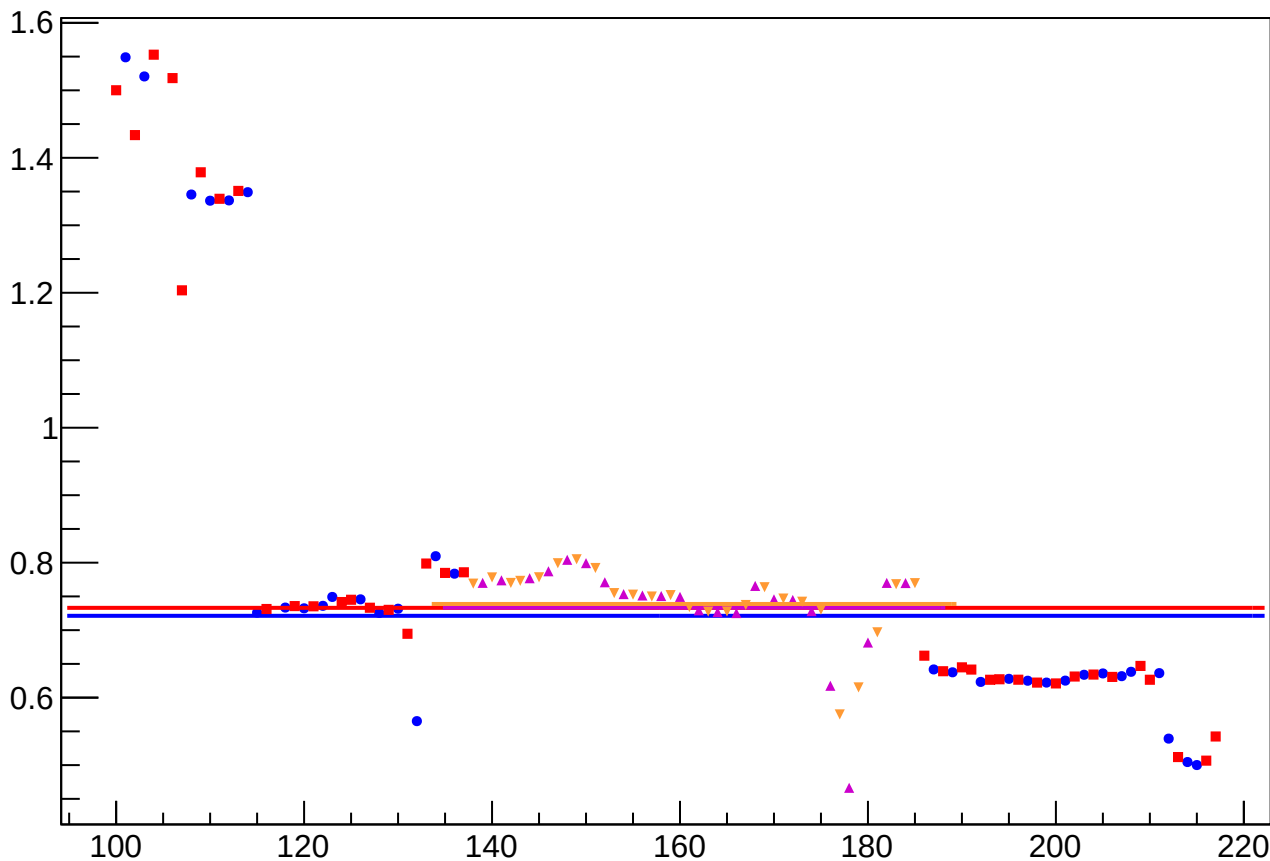
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14992348.4/67

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10392703.0/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11206601.0/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 21600751.1/115

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.721+/-0.000 χ^2/NDF : 3823700200.6/31

Left Out: 0.739+/-0.000 χ^2/NDF : 333086309.0/24

Right Out: 0.733+/-0.000 χ^2/NDF : 4186838710.7/35

Left In: 0.733+/-0.000 χ^2/NDF : 570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

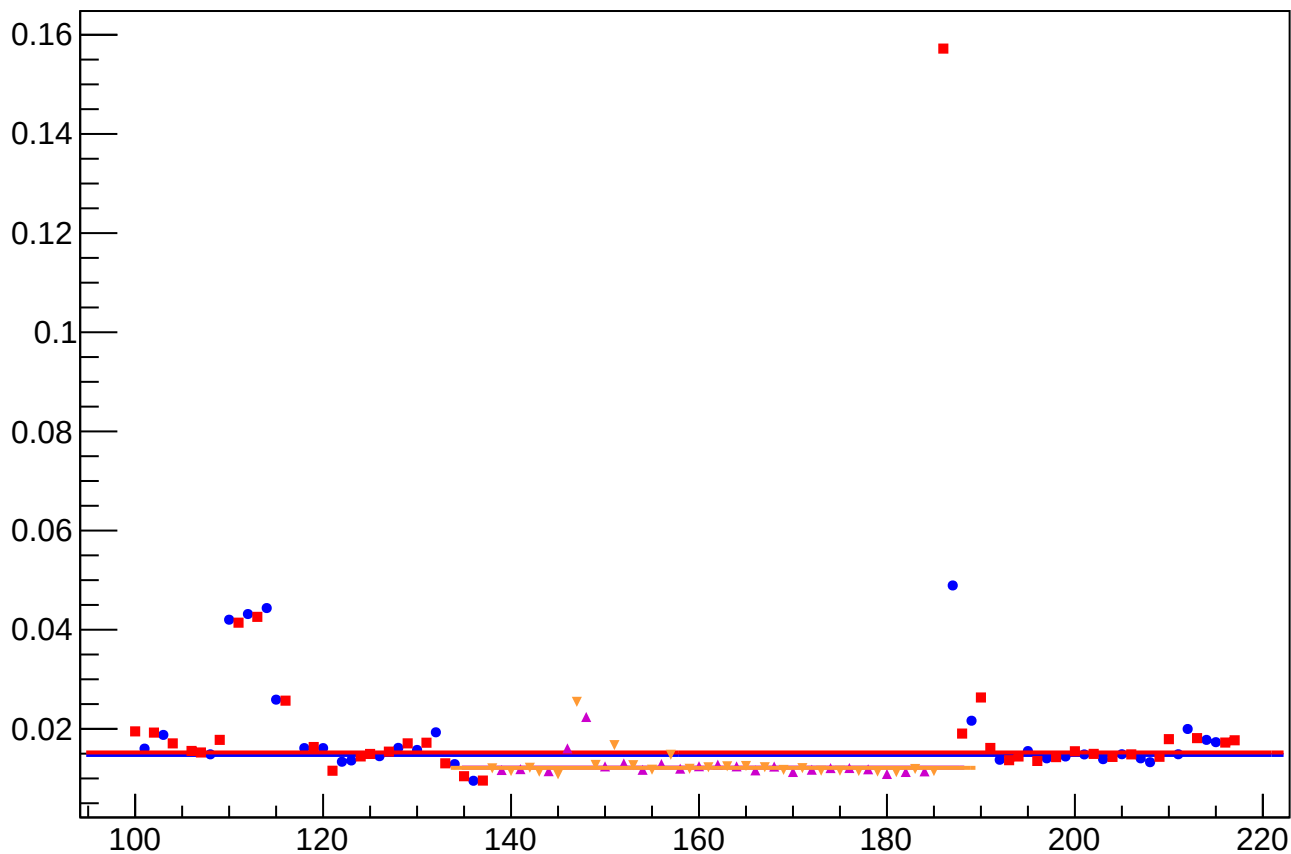
Right: 0.727+/-0.000 χ^2/NDF : 8015545156.5/67

In: 0.729+/-0.000 χ^2/NDF : 4400362310.8/54

Out: 0.737+/-0.000 χ^2/NDF : 4521409074.1/60

All: 0.733+/-0.000 χ^2/NDF : 8927814039.9/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1843271.5/31

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2210512.0/35

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

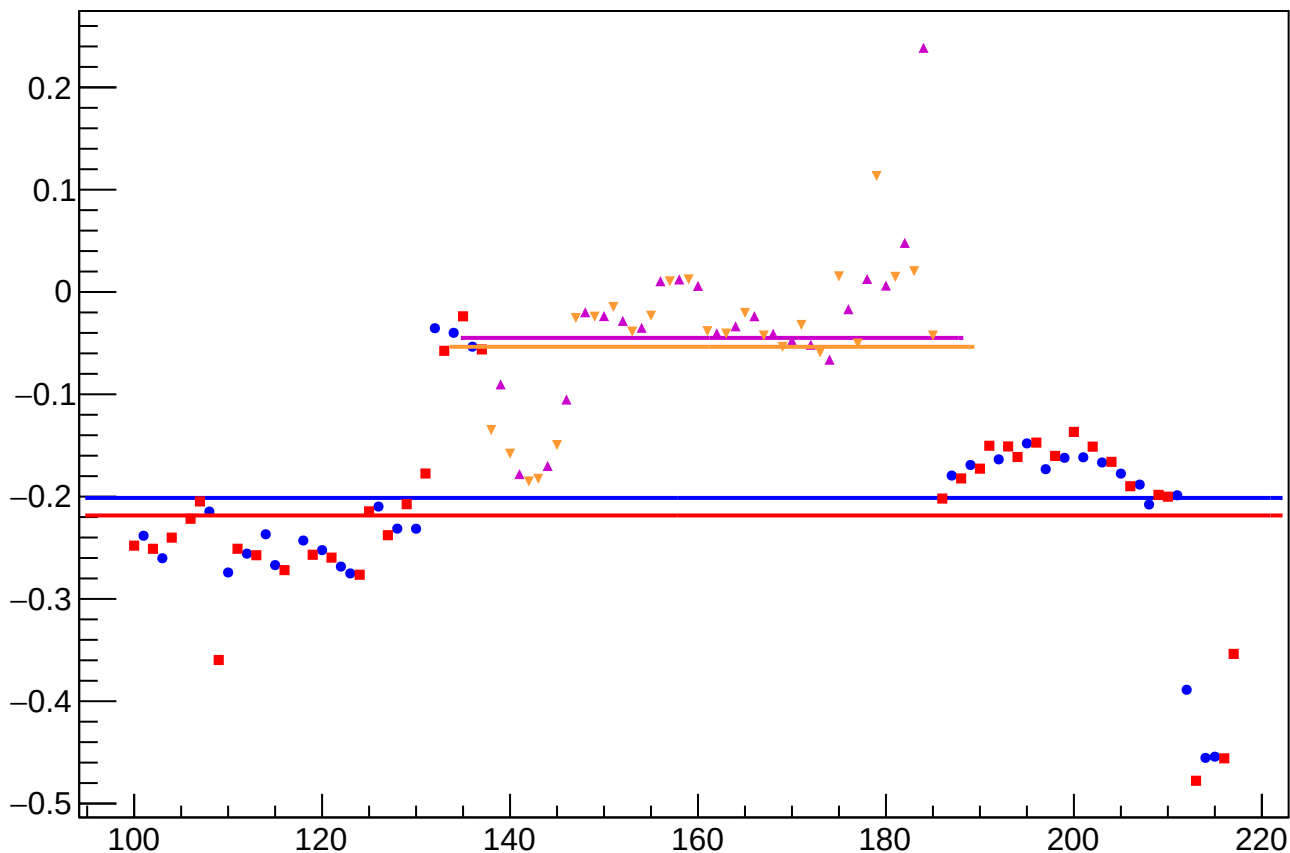
Right: 0.015+/-0.000 χ^2/NDF : 4071637.8/67

In: 0.013+/-0.000 χ^2/NDF : 2897684.8/54

Out: 0.013+/-0.000 χ^2/NDF : 3712725.6/60

All: 0.013+/-0.000 χ^2/NDF : 6613259.2/115

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.201 $\pm$ 0.000 χ^2 /NDF: 153397460.0/31

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167879648.0/24

Right Out: -0.218 $\pm$ 0.000 χ^2 /NDF: 155496543.4/35

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127324000.1/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296677486.5/47

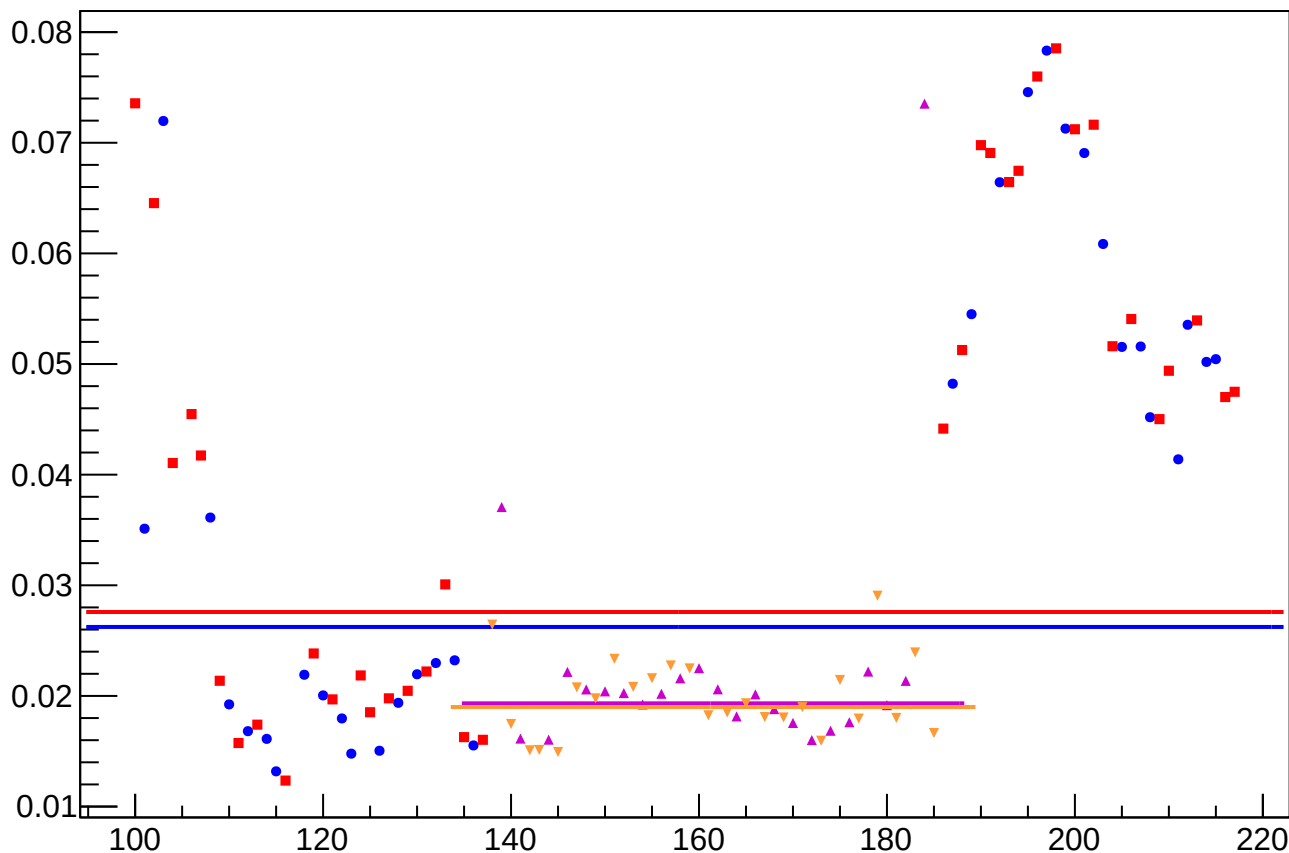
Right: -0.210 $\pm$ 0.000 χ^2 /NDF: 311339492.0/67

In: -0.093 $\pm$ 0.000 χ^2 /NDF: 563666349.6/54

Out: -0.101 $\pm$ 0.000 χ^2 /NDF: 642367766.3/60

All: -0.097 $\pm$ 0.000 χ^2 /NDF: 1207773002.8/1

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 8728022.7/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9229655.1/35

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

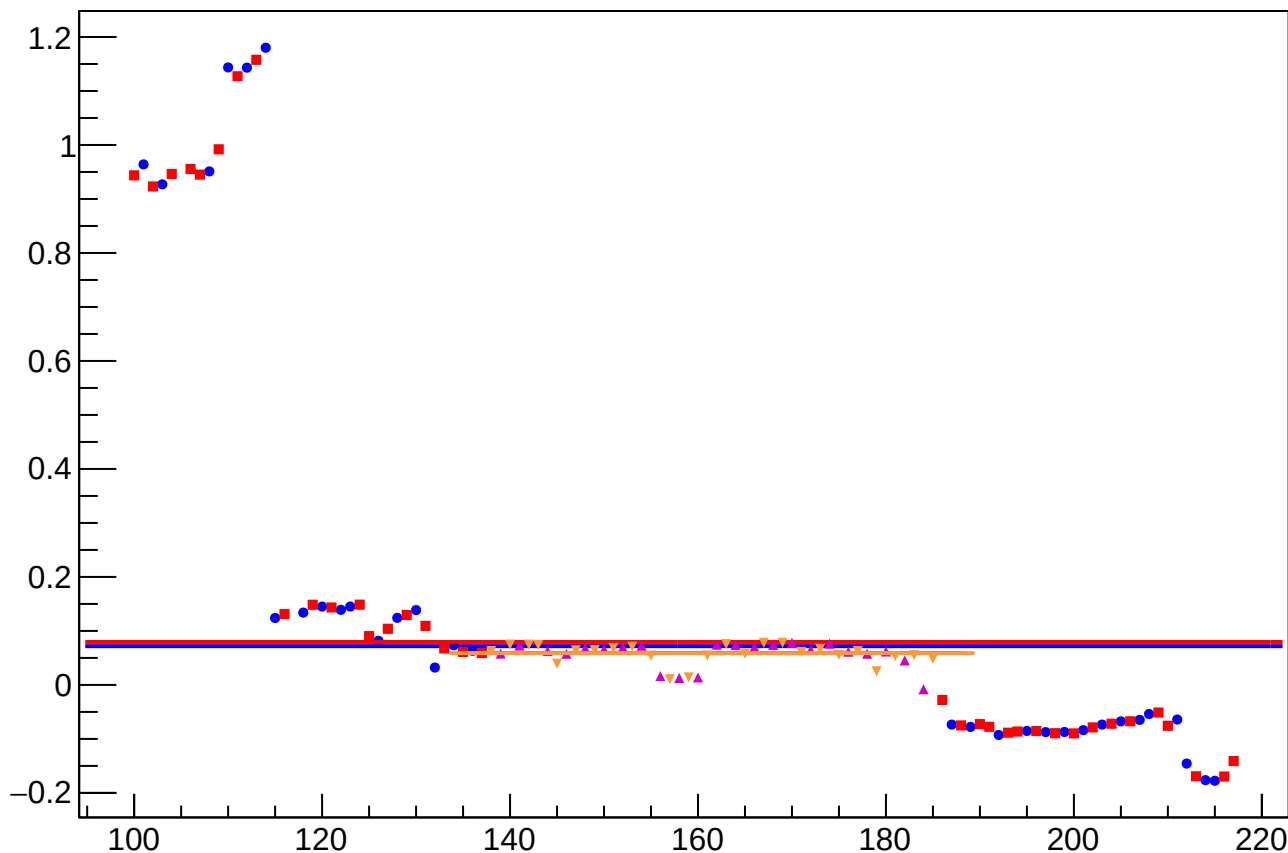
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 17988091.5/67

In: 0.021 $\pm$ 0.000 χ^2 /NDF:10723542.4/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:11661255.5/60

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 22384804.8/115

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 8645117781.1/31

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.080+/-0.000 χ^2/NDF : 9649848194.4/35

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

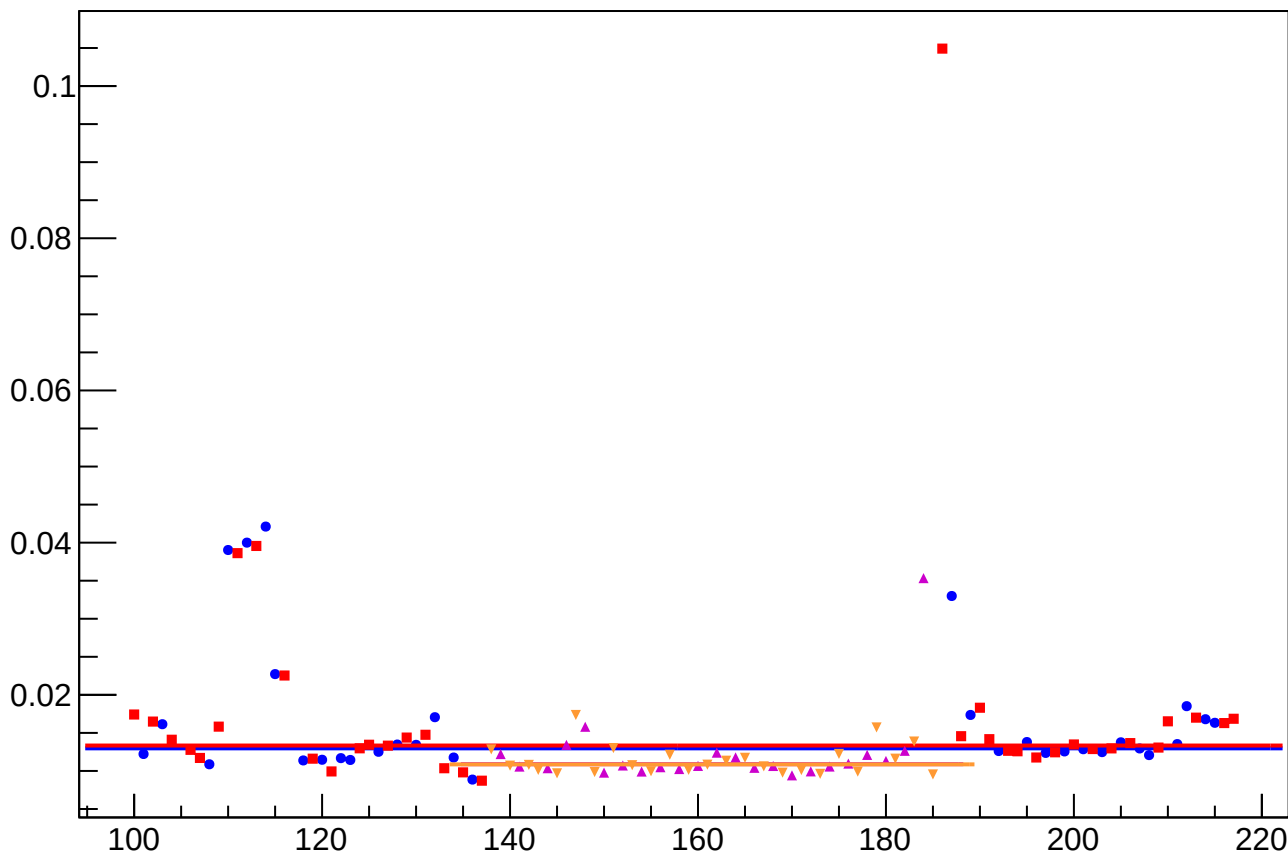
Right: 0.076+/-0.000 χ^2/NDF : 18297798760.8/67

In: 0.064+/-0.000 χ^2/NDF : 8712582334.6/54

Out: 0.067+/-0.000 χ^2/NDF : 9721099656.0/60

All: 0.066+/-0.000 χ^2/NDF : 18434566475.9/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1781931.2/31

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2151385.7/35

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

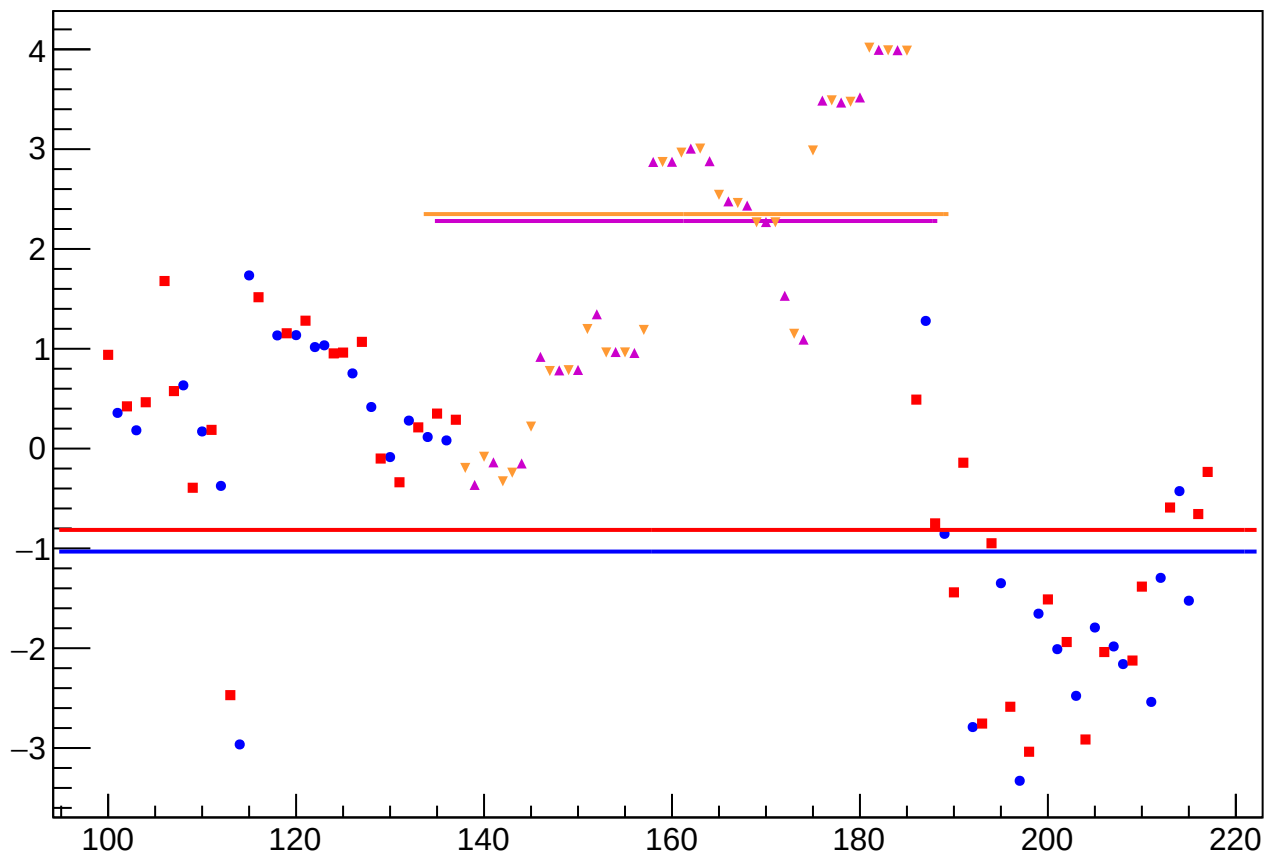
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3946048.6/67

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2789634.0/54

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3451752.4/60

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 6244021.1/115

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.032+/-0.000 χ^2/NDF : 7858838710.4/31

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.815+/-0.000 χ^2/NDF : 8285096879.5/35

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

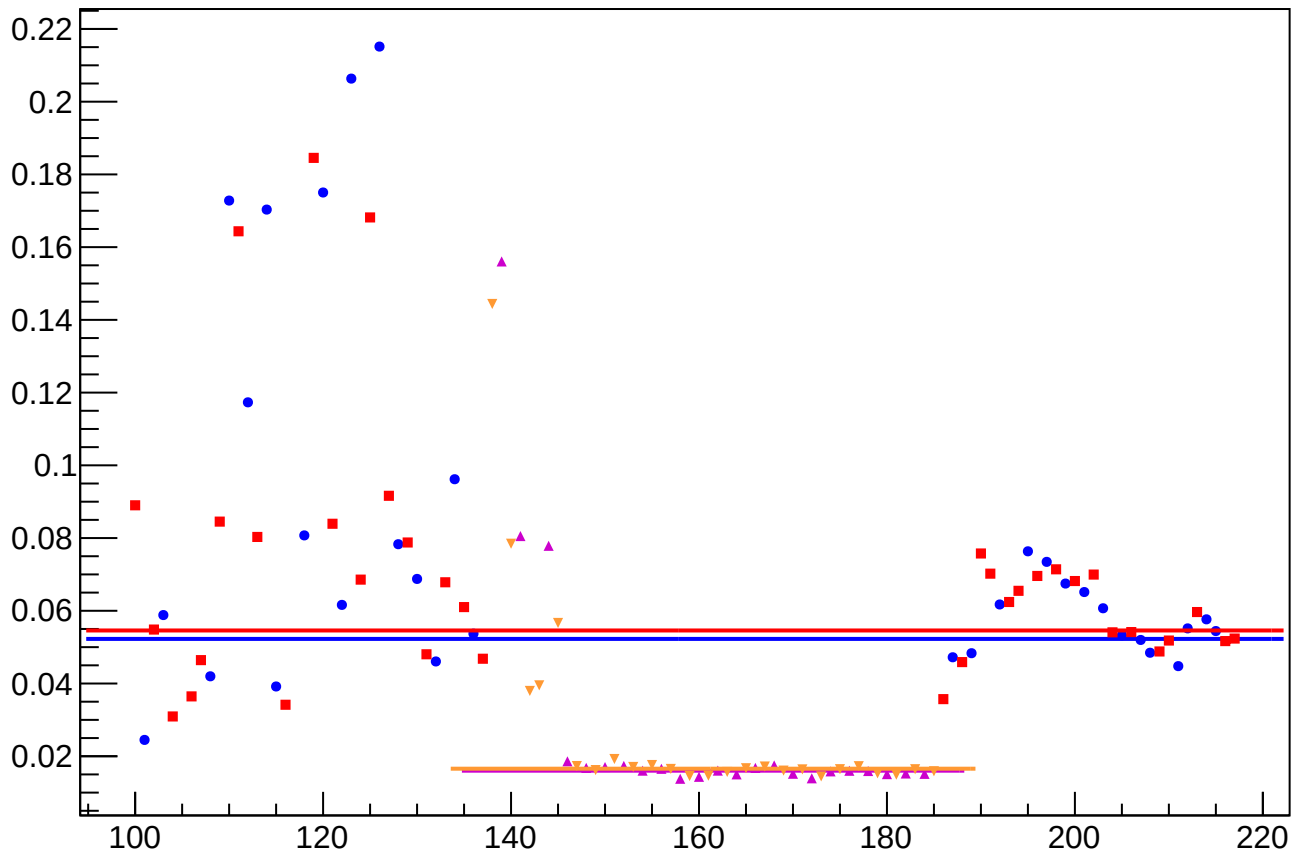
Right: -0.922+/-0.000 χ^2/NDF : 16259384562.8/67

In: 1.998+/-0.000 χ^2/NDF : 118041125915.5/54

Out: 2.069+/-0.000 χ^2/NDF : 117198996129.6/60

All: 2.033+/-0.000 χ^2/NDF : 235383202015.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3525699.8/31

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2881852.3/35

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

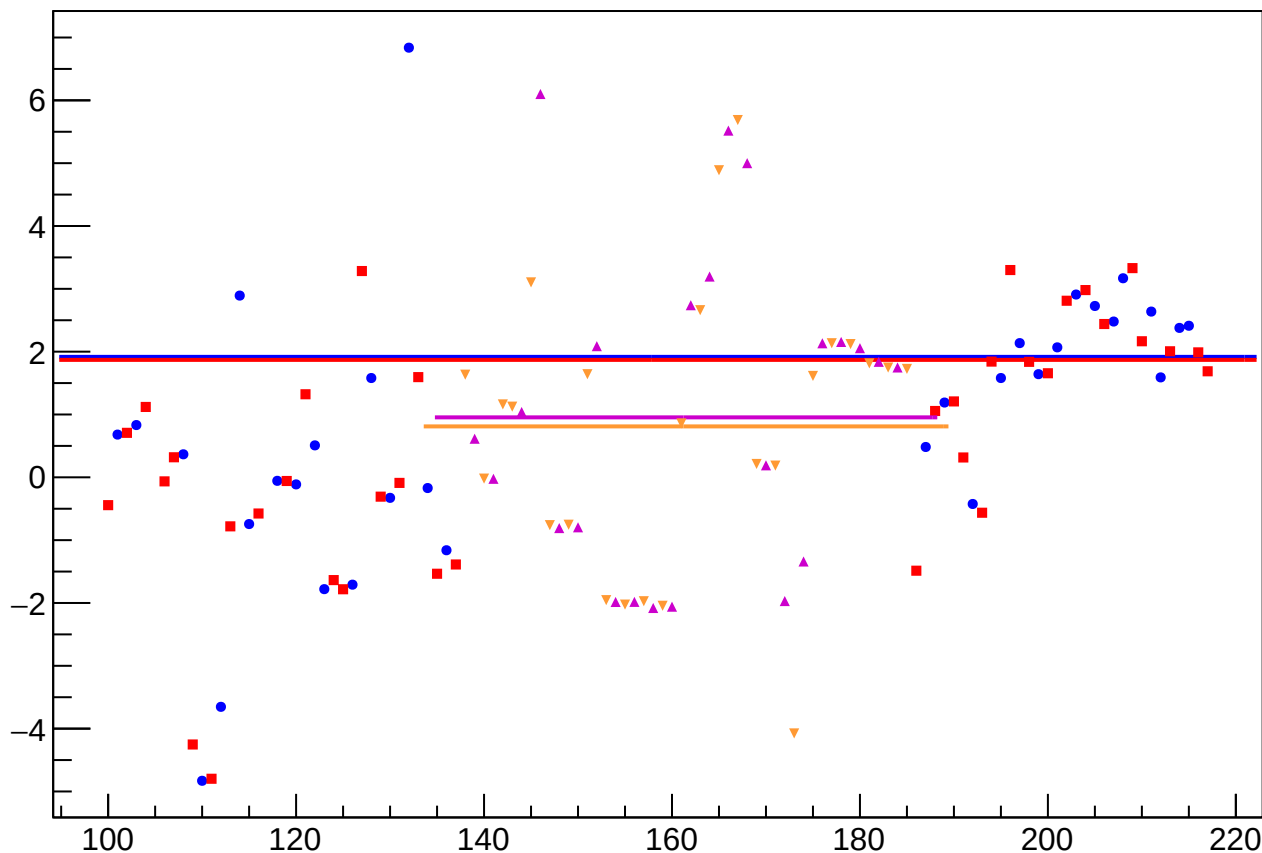
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6434007.7/67

In: 0.019 $\pm$ 0.000 χ^2 /NDF:17658179.0/54

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:18582329.3/60

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 36279144.6/115

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.917+/-0.000

χ^2/NDF : 39446560545.5/31

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right Out: 1.869+/-0.000

χ^2/NDF : 39627303231.6/35

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.893+/-0.000

χ^2/NDF : 79110292393.2/67

In: 1.213+/-0.000

χ^2/NDF : 635559685747.2/54

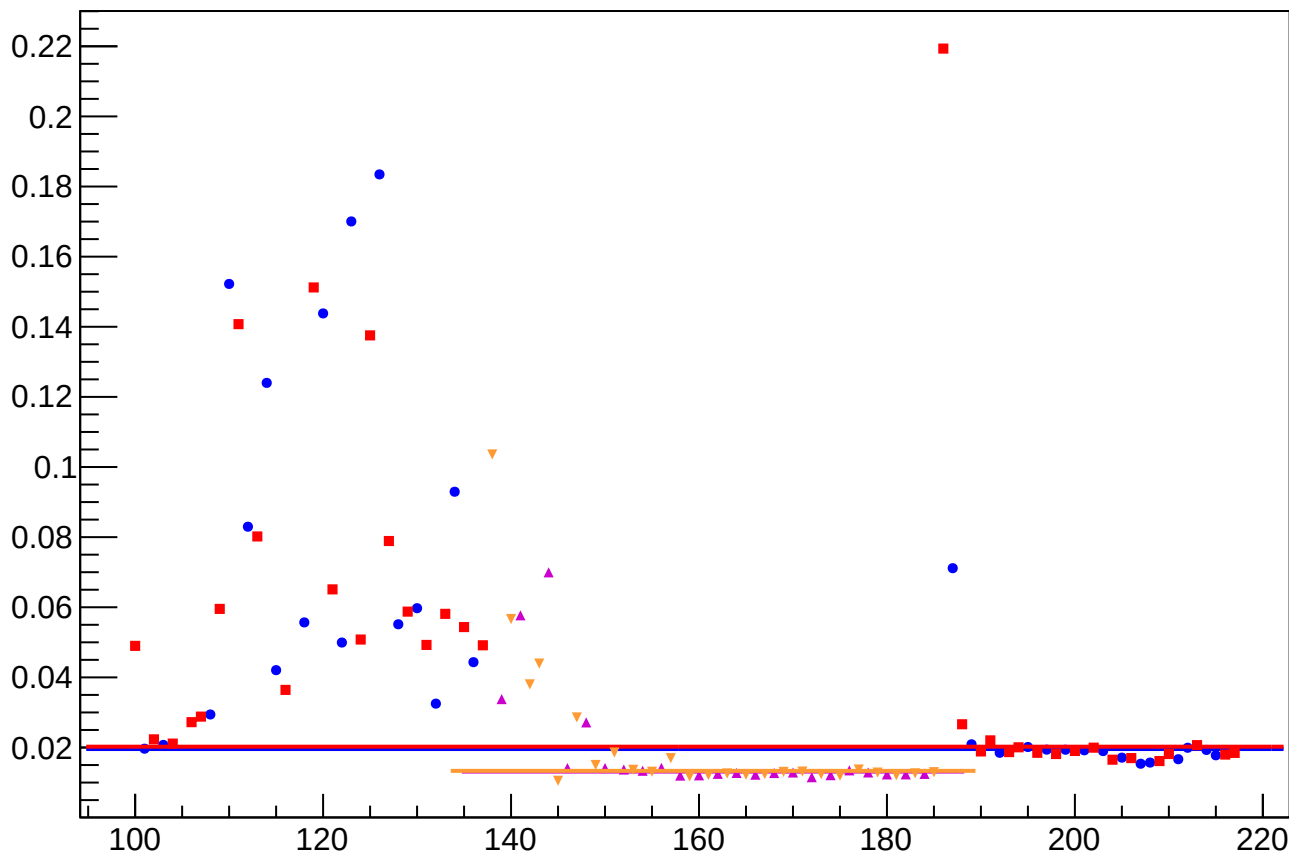
Out: 1.097+/-0.000

χ^2/NDF : 573077469133.9/60

All: 1.155+/-0.000

χ^2/NDF : 1209415307051.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4126044.7/31

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5203730.9/35

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

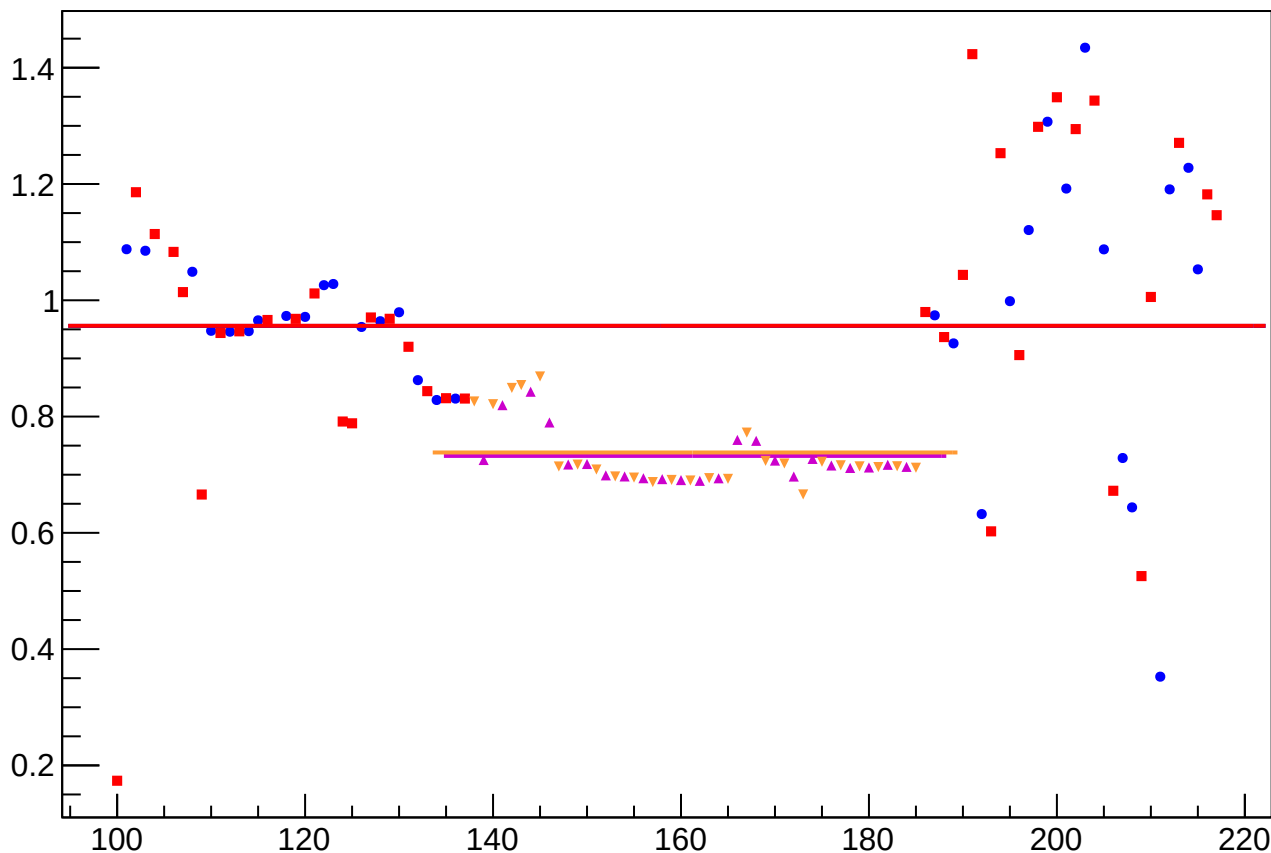
Right: 0.020+/-0.000 χ^2/NDF : 9343830.3/67

In: 0.015+/-0.000 χ^2/NDF : 7995885.9/54

Out: 0.015+/-0.000 χ^2/NDF : 10225061.9/60

All: 0.015+/-0.000 χ^2/NDF : 18235110.3/115

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.956 $\pm$ 0.000 χ^2 /NDF: 977256106.4/31

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.956 $\pm$ 0.000 χ^2 /NDF: 1277973098.9/35

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

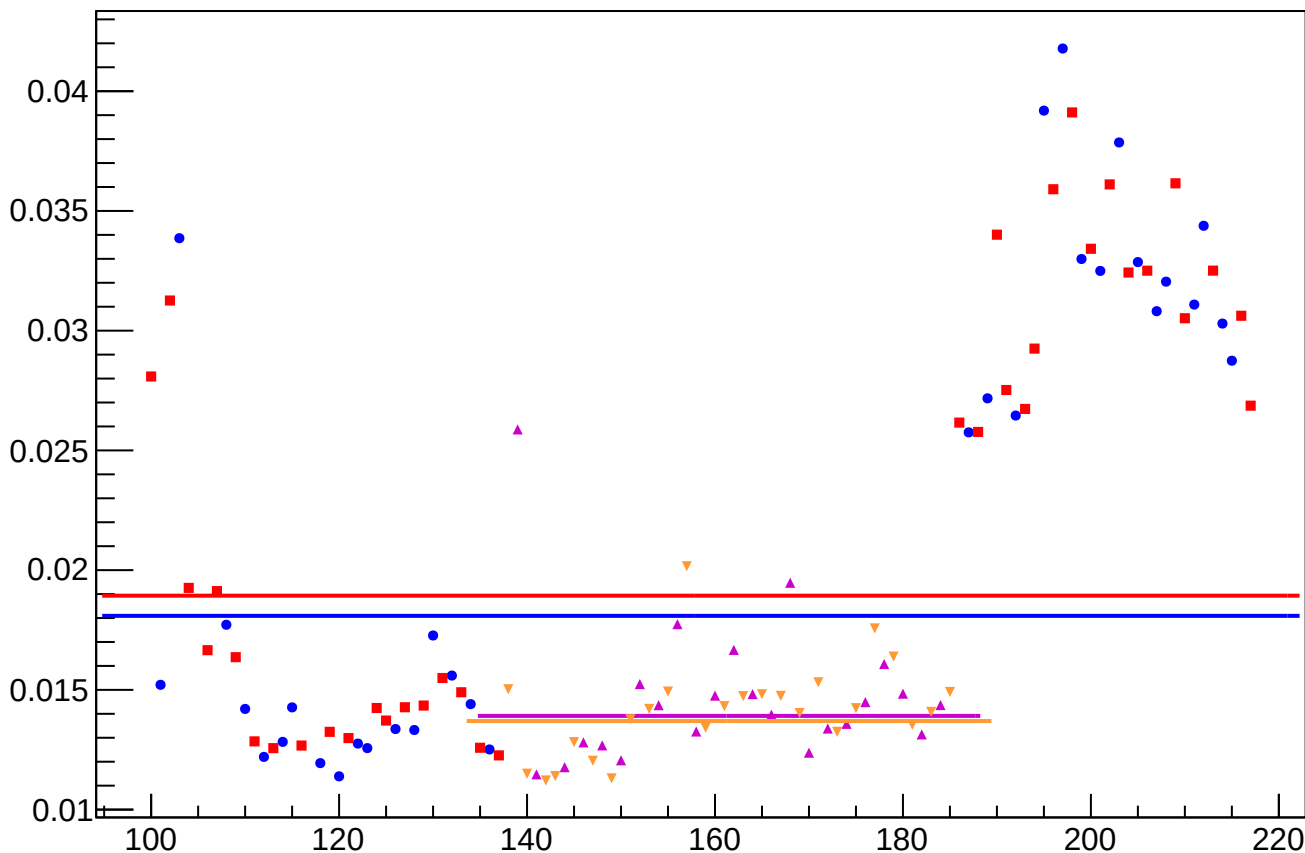
Right: 0.956 $\pm$ 0.000 χ^2 /NDF: 2255230039.1/67

In: 0.807 $\pm$ 0.000 χ^2 /NDF:2481531074.4/54

Out: 0.808 $\pm$ 0.000 χ^2 /NDF:2900667828.2/60

All: 0.807 $\pm$ 0.000 χ^2 /NDF: 5382309011.4/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2/NDF : 5554809.0/31

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019 $\pm$ 0.000 χ^2/NDF : 5131952.5/35

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 794558.0/22

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1329255.3/47

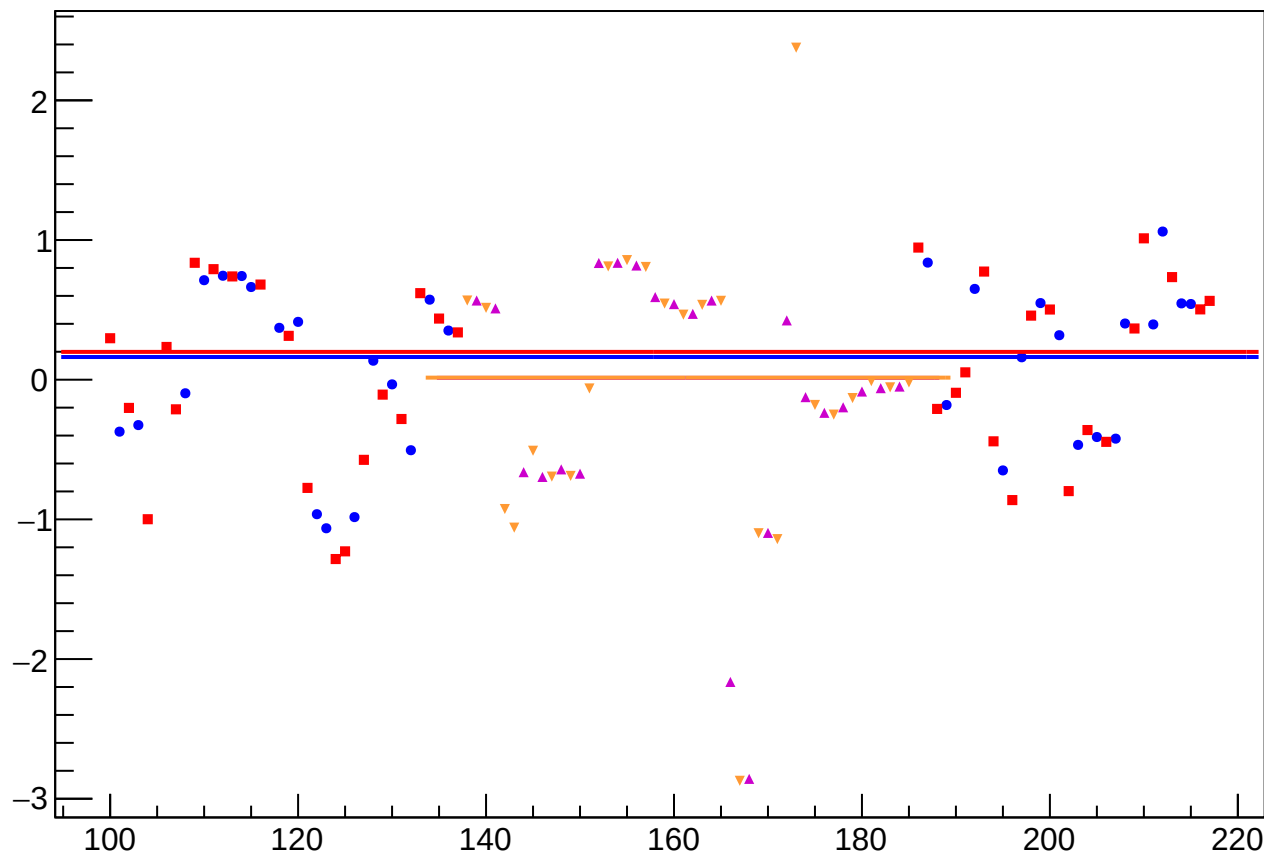
Right: 0.019 $\pm$ 0.000 χ^2/NDF : 10715335.1/67

In: 0.015 $\pm$ 0.000 χ^2/NDF : 7280918.0/54

Out: 0.015 $\pm$ 0.000 χ^2/NDF : 7178100.6/60

All: 0.015 $\pm$ 0.000 χ^2/NDF : 14459655.4/115

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.162+/-0.000

χ^2/NDF : 30766503655.7/31

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right: 0.181+/-0.000

χ^2/NDF : 73554701319.2/67

Right Out: 0.199+/-0.000

χ^2/NDF : 42711118894.5/35

In: 0.090+/-0.000

χ^2/NDF : 111428119458.0/54

Out: 0.110+/-0.000

χ^2/NDF : 140718437942.1/60

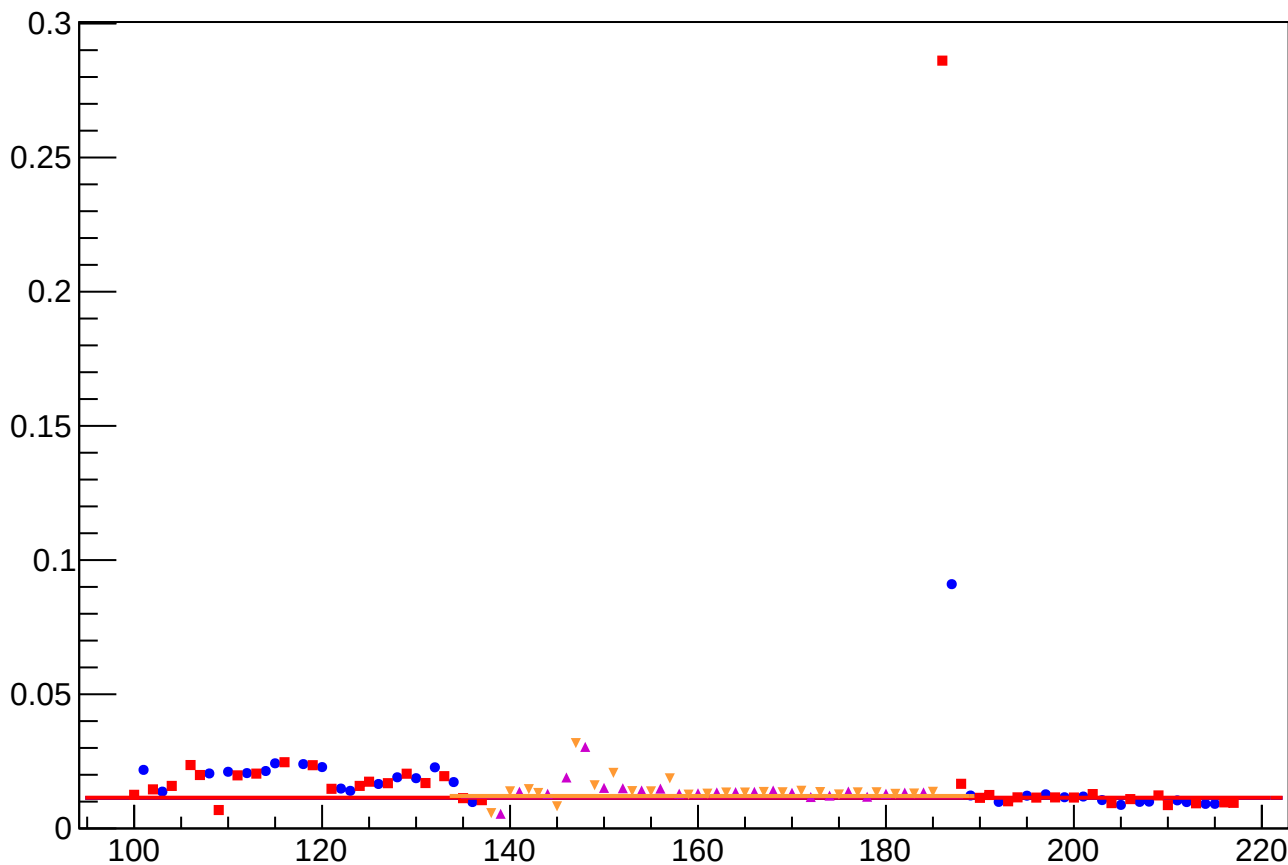
Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.100+/-0.000

χ^2/NDF : 252192525555.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2576571.8/31

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3085722.7/35

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

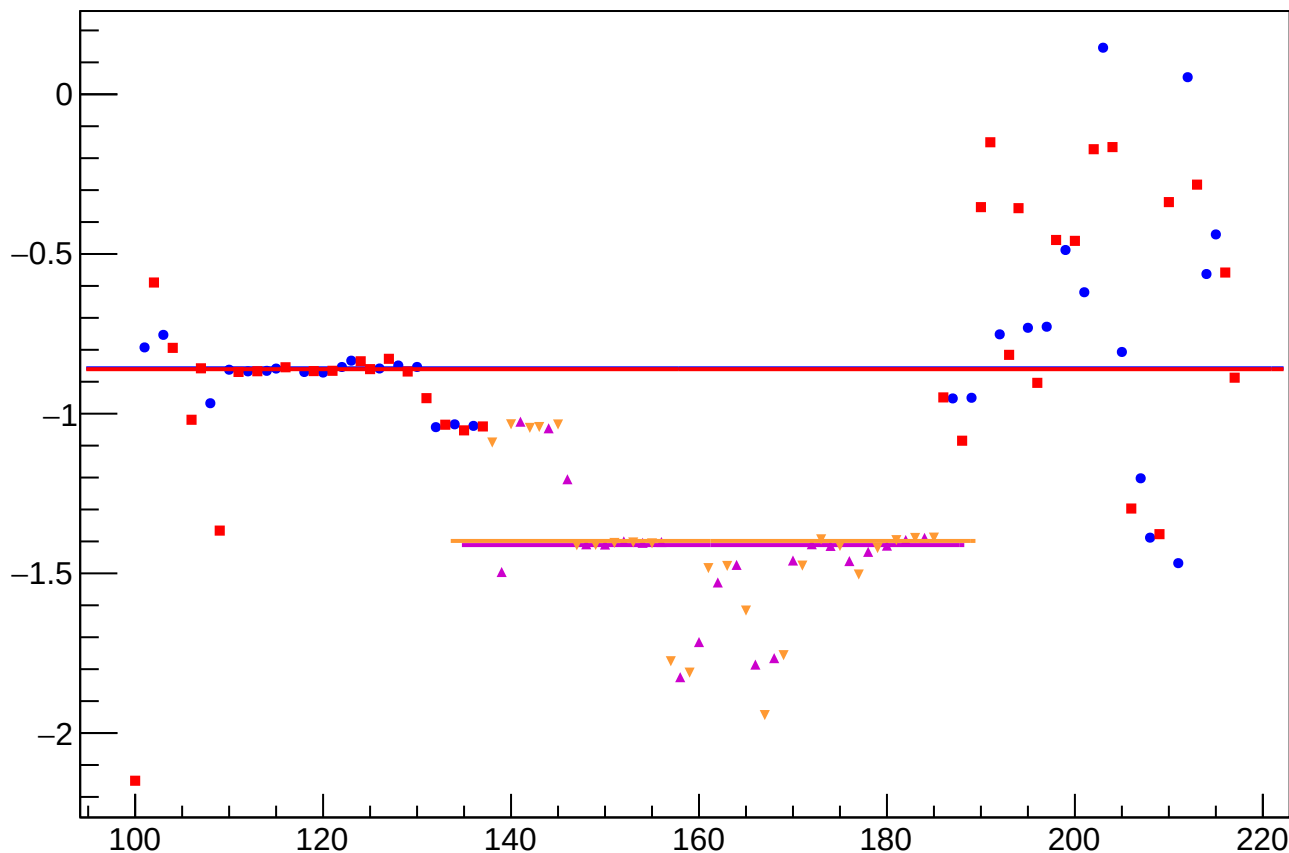
Right: 0.011+/-0.000 χ^2/NDF : 5663462.9/67

In: 0.012+/-0.000 χ^2/NDF :5718031.0/54

Out: 0.012+/-0.000 χ^2/NDF :6242192.5/60

All: 0.012+/-0.000 χ^2/NDF : 11964642.4/115

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.858 ± 0.000 $\chi^2/\text{NDF}: 371211910.0/31$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.861 ± 0.000 $\chi^2/\text{NDF}: 493161579.9/35$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

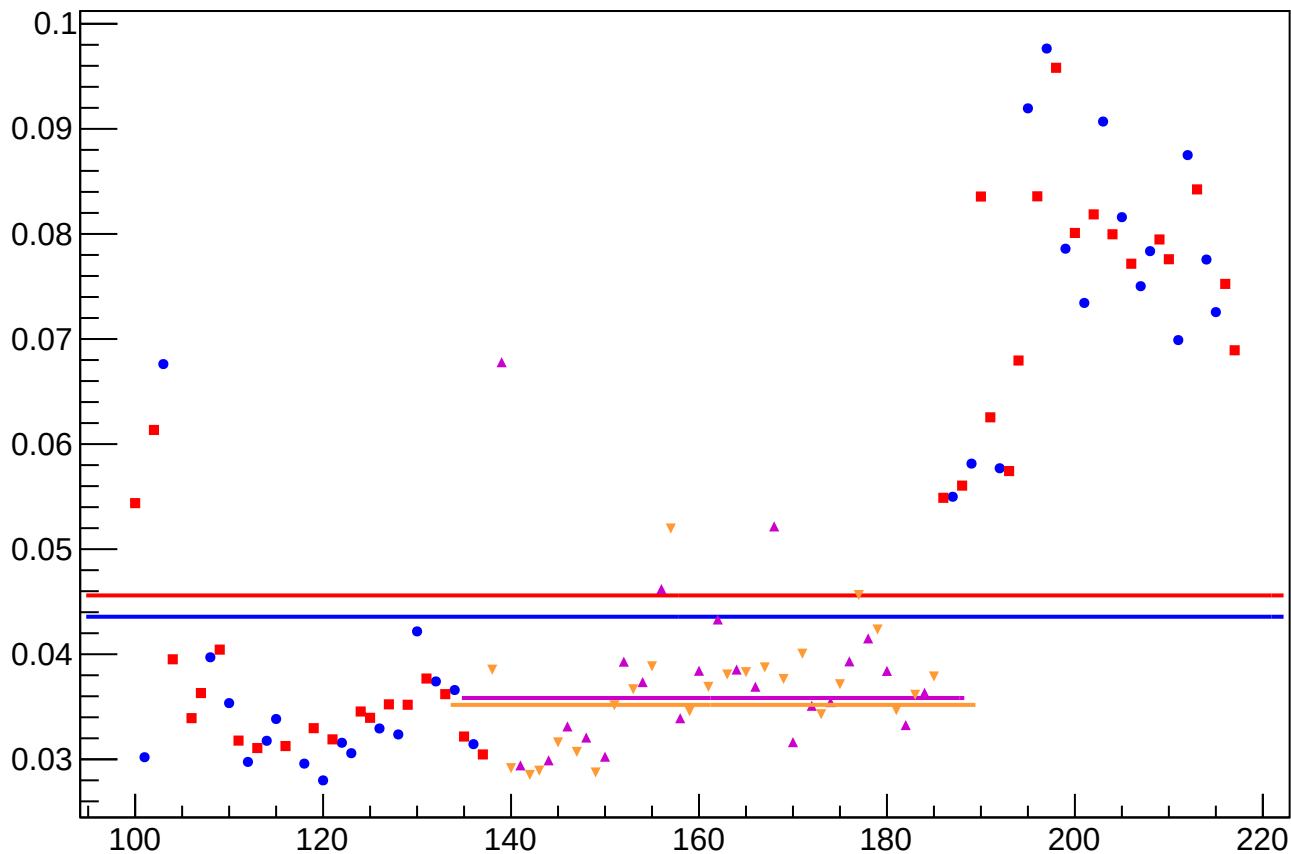
Right: -0.859 ± 0.000 $\chi^2/\text{NDF}: 864401410.7/67$

In: -1.207 ± 0.000 $\chi^2/\text{NDF}: 2241442013.6/54$

Out: -1.208 ± 0.000 $\chi^2/\text{NDF}: 2558069296.9/60$

All: -1.207 ± 0.000 $\chi^2/\text{NDF}: 4799525145.7/111$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.000 χ^2 /NDF: 5364582.0/31

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 597886.0/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4747421.2/35

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF: 890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

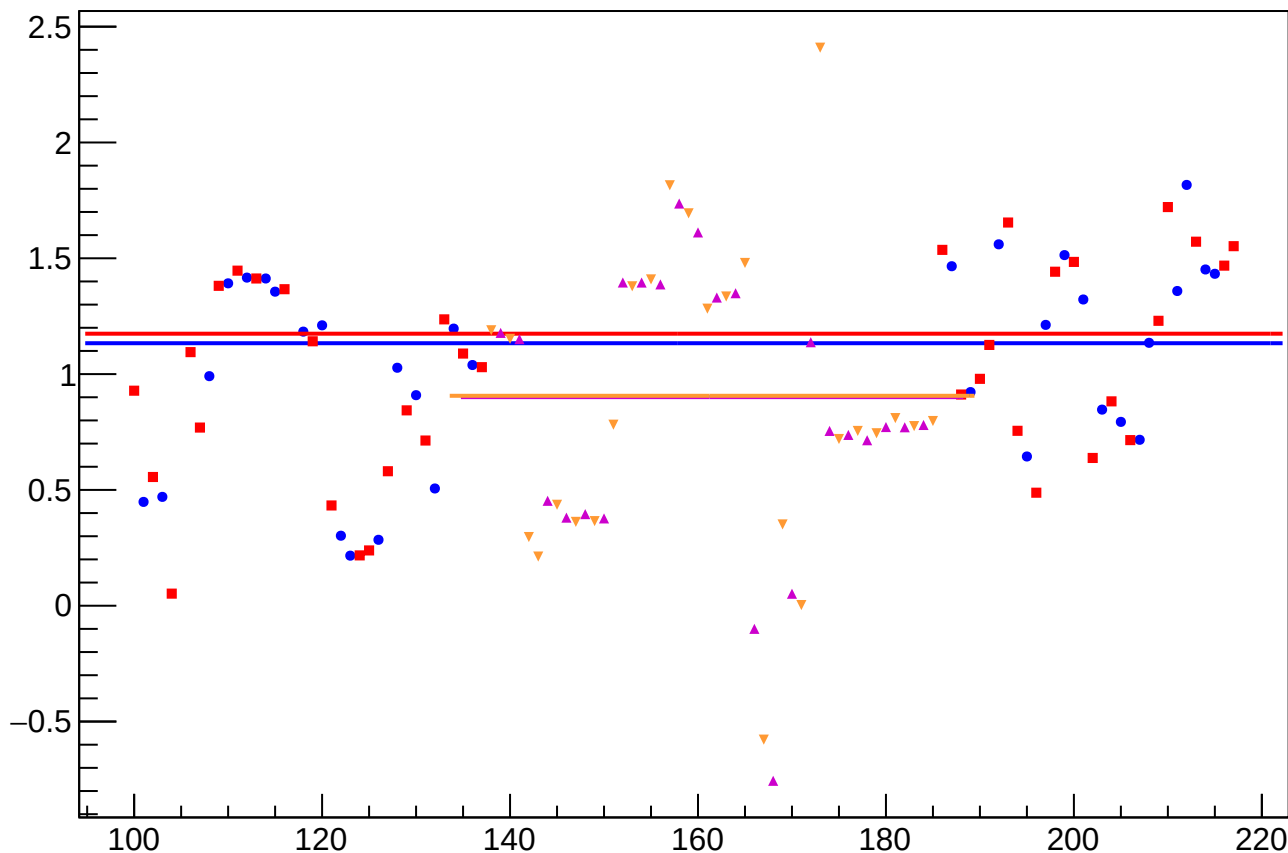
Right: 0.045 $\pm$ 0.000 χ^2 /NDF: 10141098.8/67

In: 0.039 $\pm$ 0.000 χ^2 /NDF: 6785349.1/54

Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 6343806.7/60

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 13129746.1/115

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.133+/-0.000

χ^2/NDF : 42329127127.1/31

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.153+/-0.000 χ^2/NDF : 92943092472.3/67

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 1.039+/-0.000 χ^2/NDF : 115973799535.0/54

Right Out: 1.174+/-0.000

χ^2/NDF : 50361557581.1/35

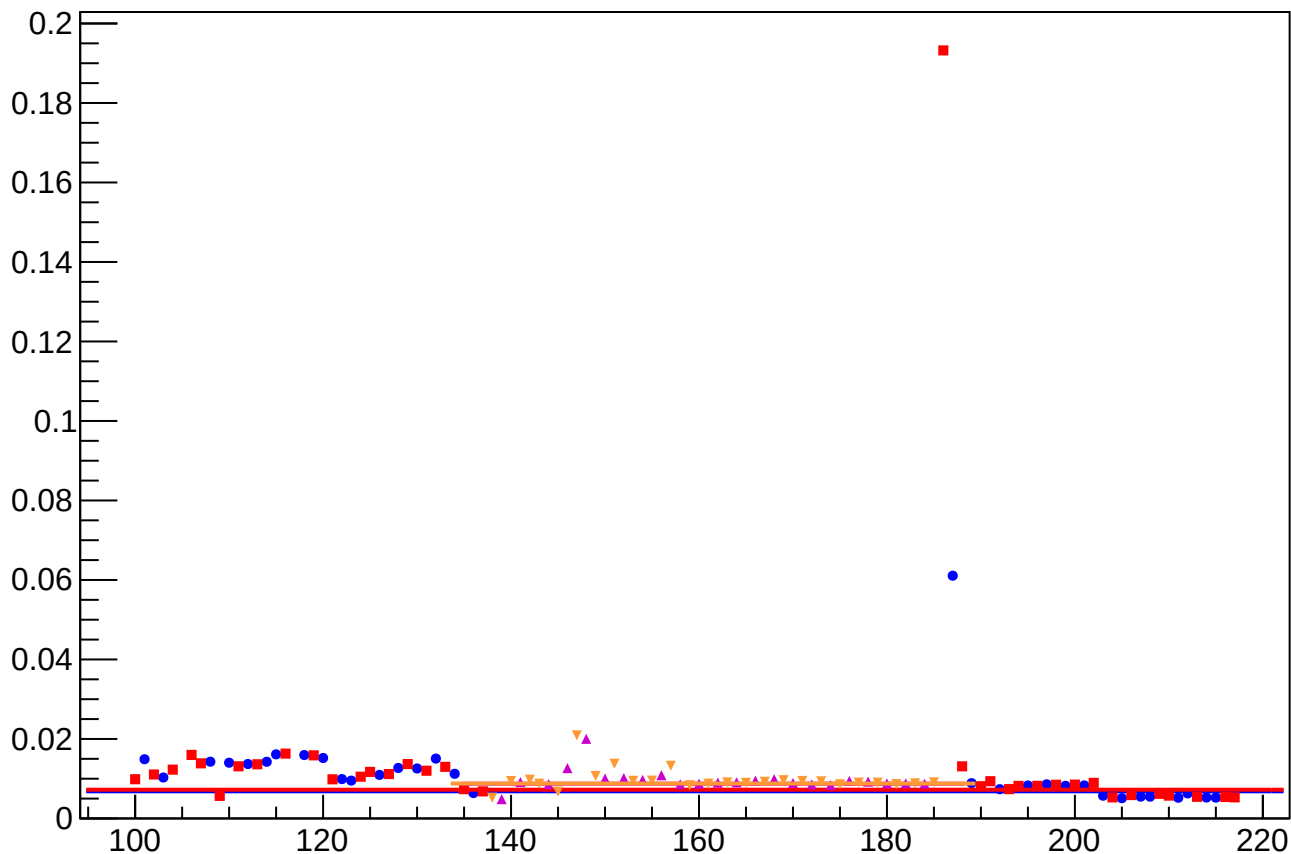
Out: 1.059+/-0.000 χ^2/NDF : 143455536085.0/60

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.049+/-0.000 χ^2/NDF : 259533255593.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3702213.5/31

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4089673.8/35

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

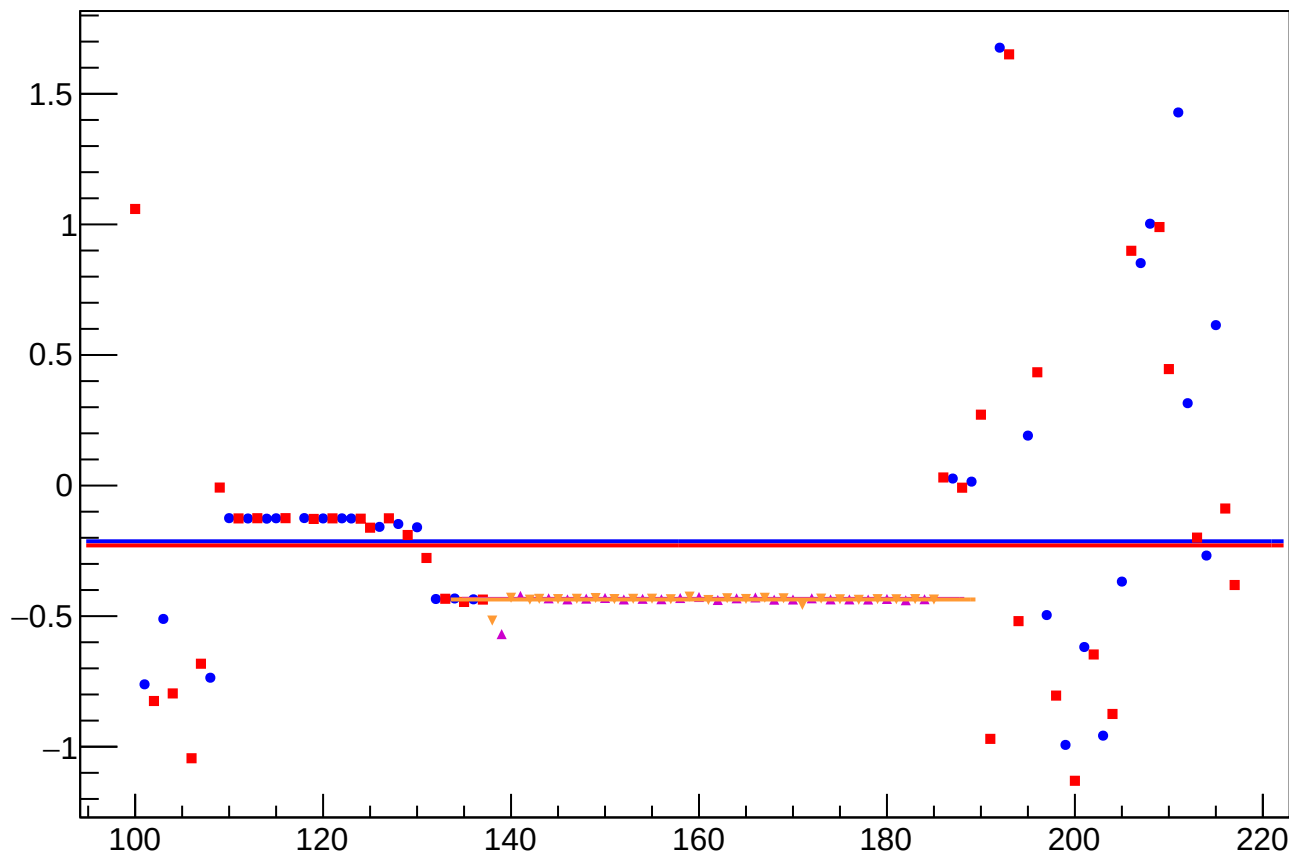
Right: 0.007+/-0.000 χ^2/NDF : 7840220.6/67

In: 0.008+/-0.000 χ^2/NDF : 6272900.3/54

Out: 0.008+/-0.000 χ^2/NDF : 6391283.9/60

All: 0.008+/-0.000 χ^2/NDF : 12709709.7/115

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.213+/-0.000 χ^2/NDF : 4979571062.4/31

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.229+/-0.000 χ^2/NDF : 3431148881.8/35

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

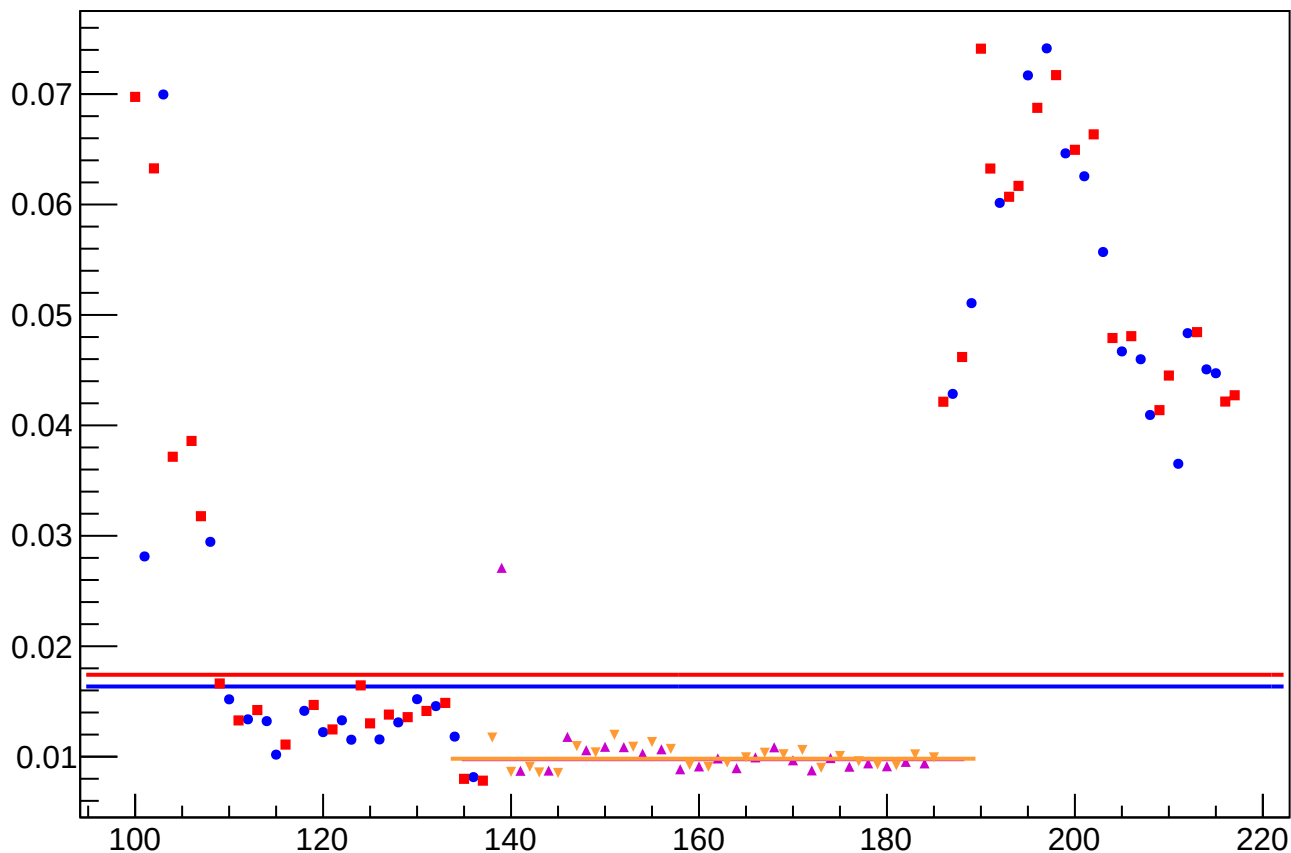
Right: -0.221+/-0.000 χ^2/NDF : 8415039041.0/67

In: -0.393+/-0.000 χ^2/NDF : 6402772061.7/54

Out: -0.400+/-0.000 χ^2/NDF : 4664455814.1/60

All: -0.397+/-0.000 χ^2/NDF : 11073215875.5/116

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 12480547.0/31

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.017+/-0.000 χ^2/NDF : 13287321.0/35

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

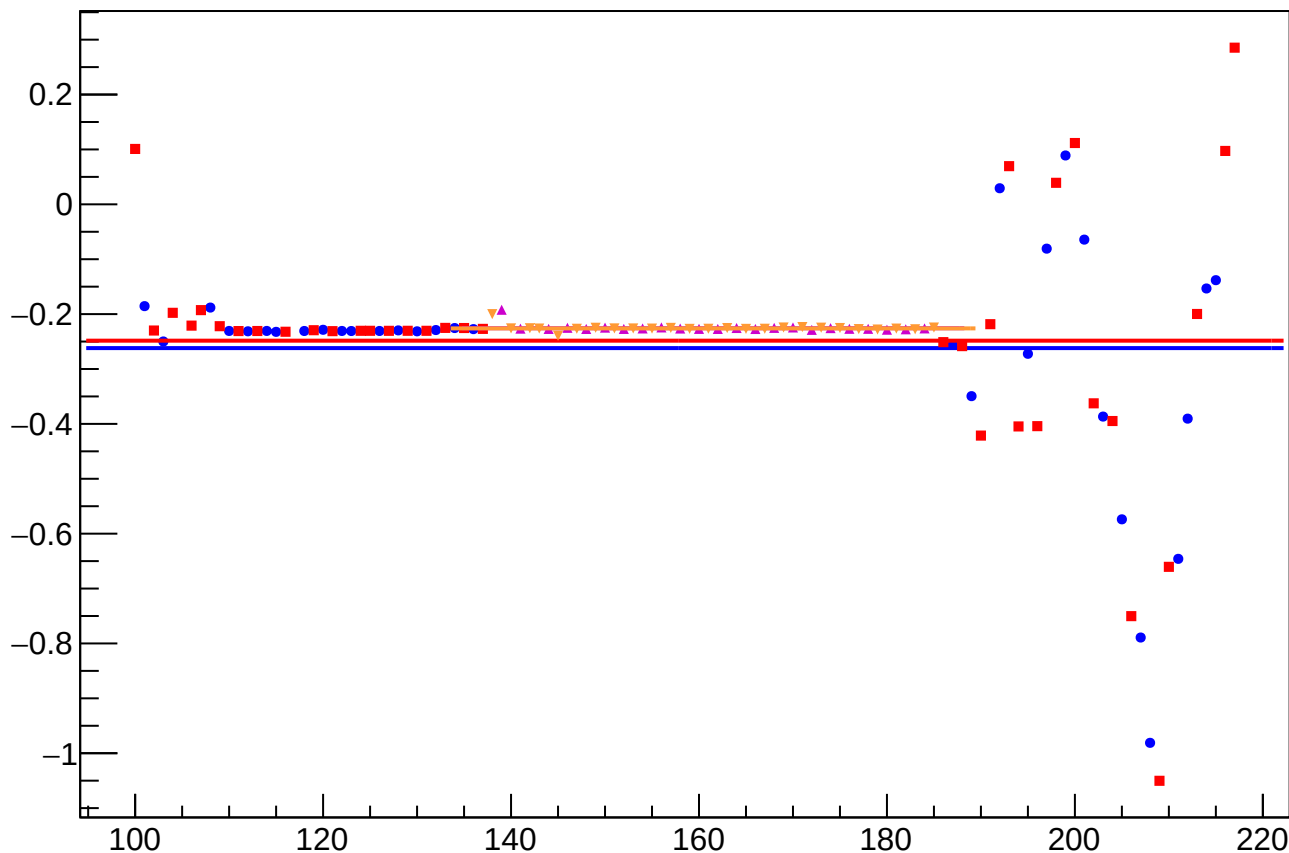
Right: 0.017+/-0.000 χ^2/NDF : 25806987.8/67

In: 0.011+/-0.000 χ^2/NDF : 15766289.5/54

Out: 0.011+/-0.000 χ^2/NDF : 16806873.5/60

All: 0.011+/-0.000 χ^2/NDF : 32575895.2/115

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.262 ± 0.000 $\chi^2/\text{NDF}: 25220385016.5/31$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21207366.3/24$

Right Out: -0.248 ± 0.000 $\chi^2/\text{NDF}: 30054361401.0/35$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 13717302.5/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 34951372.2/47$

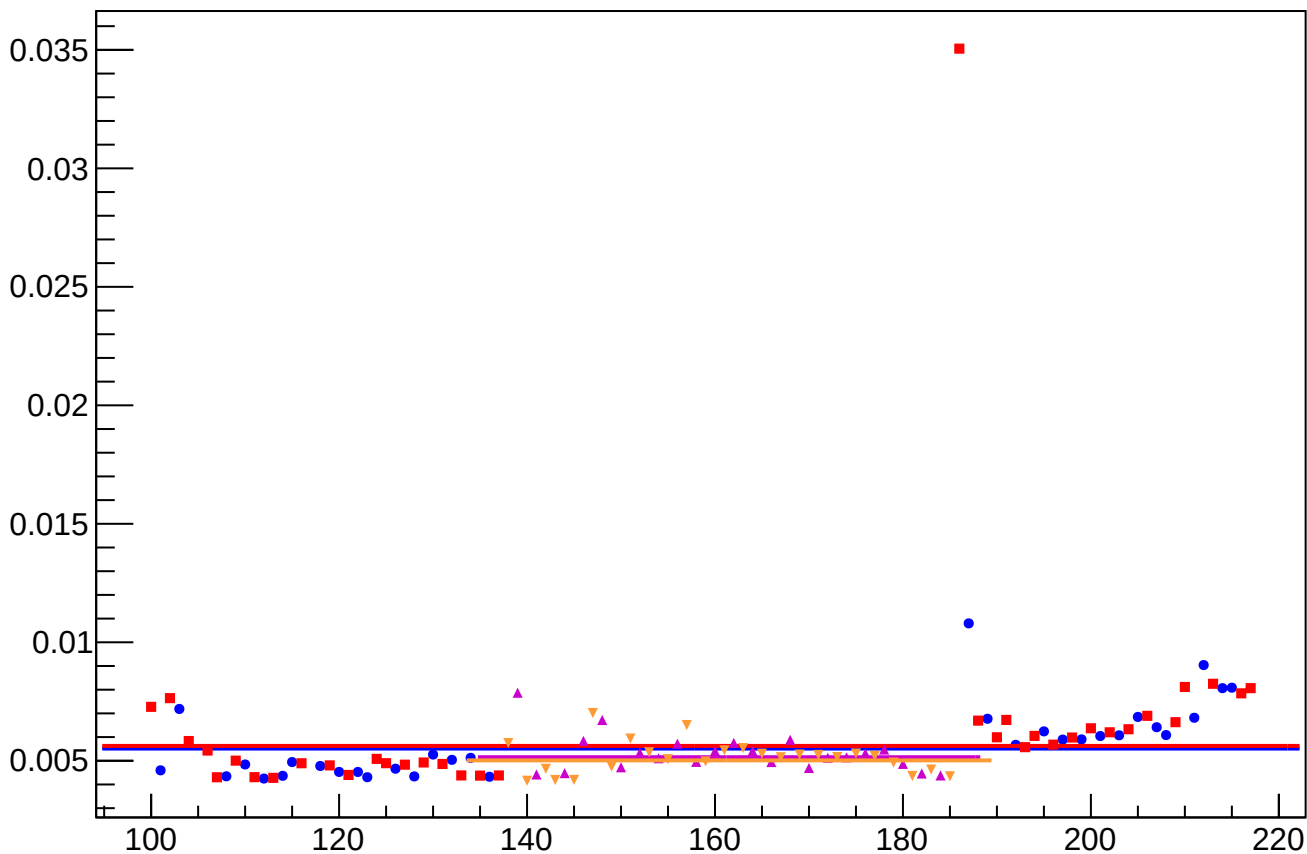
Right: -0.255 ± 0.000 $\chi^2/\text{NDF}: 55322258656.3/67$

In: -0.242 ± 0.000 $\chi^2/\text{NDF}: 25600368764.7/54$

Out: -0.236 ± 0.000 $\chi^2/\text{NDF}: 30224661947.2/60$

All: -0.239 ± 0.000 $\chi^2/\text{NDF}: 55848668562.8/118$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1356487.8/31

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1863740.5/35

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

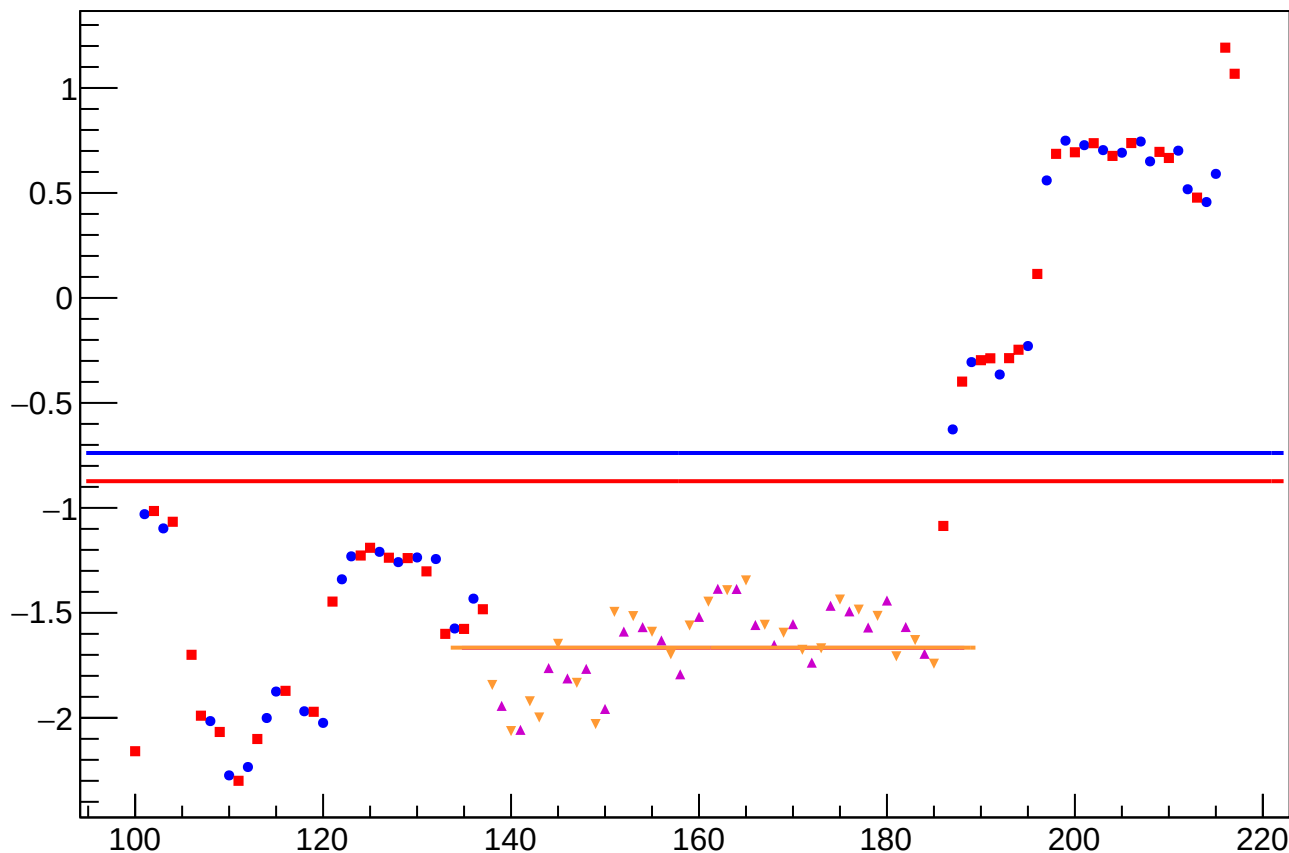
Right: 0.006+/-0.000 χ^2/NDF : 3226633.7/67

In: 0.005+/-0.000 χ^2/NDF : 1935449.6/54

Out: 0.005+/-0.000 χ^2/NDF : 2618632.3/60

All: 0.005+/-0.000 χ^2/NDF : 4555409.3/115

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.739 ± 0.000 $\chi^2/\text{NDF}: 238933110637.0/31$

Left Out: -1.666 ± 0.000 $\chi^2/\text{NDF}: 18368038680.8/24$

Right Out: -0.873 ± 0.000 $\chi^2/\text{NDF}: 290127538479.2/35$

Left In: -1.667 ± 0.000 $\chi^2/\text{NDF}: 14615453869.3/22$

Left: -1.666 ± 0.000 $\chi^2/\text{NDF}: 32983827631.4/47$

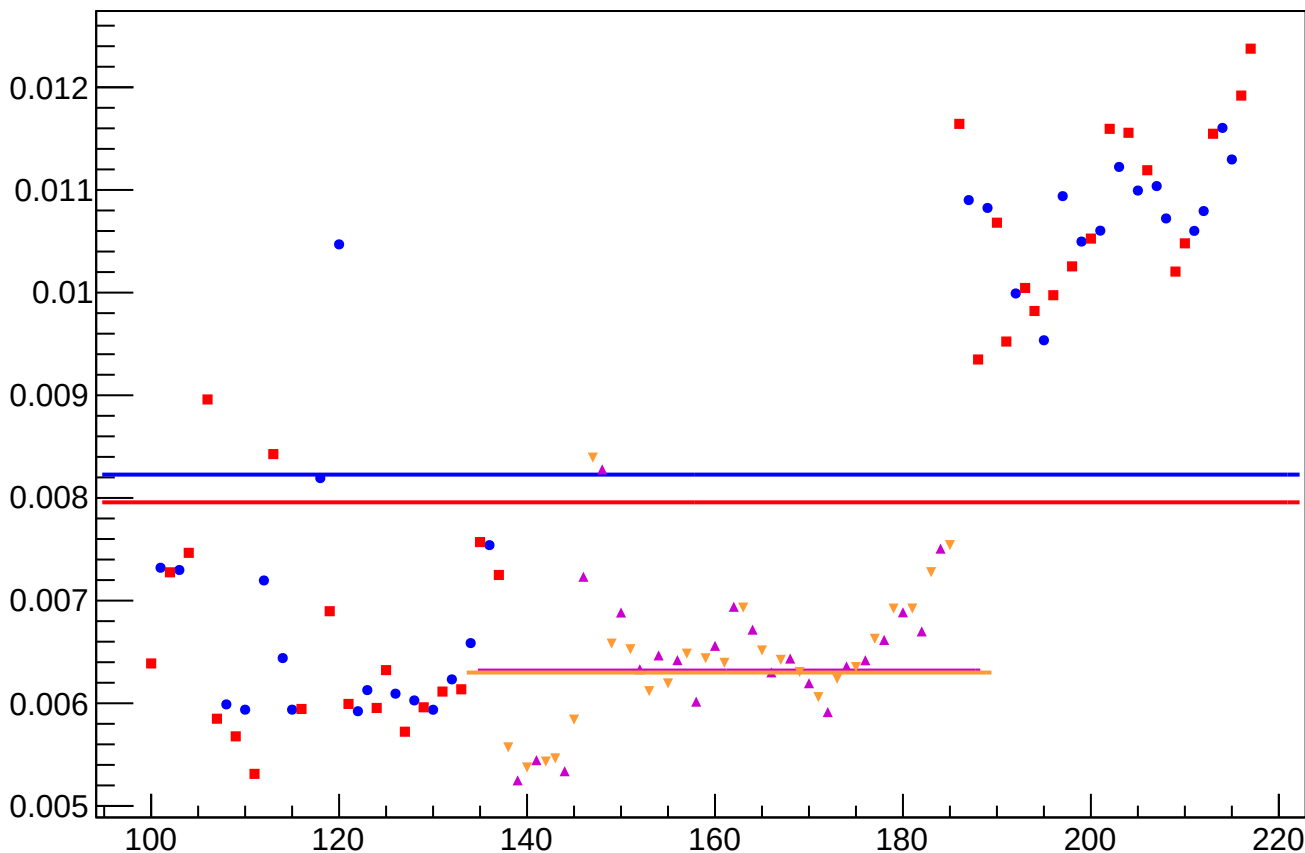
Right: -0.810 ± 0.000 $\chi^2/\text{NDF}: 531271623814.7/67$

In: -1.336 ± 0.000 $\chi^2/\text{NDF}: 380610707365.0/54$

Out: -1.369 ± 0.000 $\chi^2/\text{NDF}: 412257686409.4/60$

All: -1.353 ± 0.000 $\chi^2/\text{NDF}: 793239713403.8$

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2072333.8/31

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2604831.7/35

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

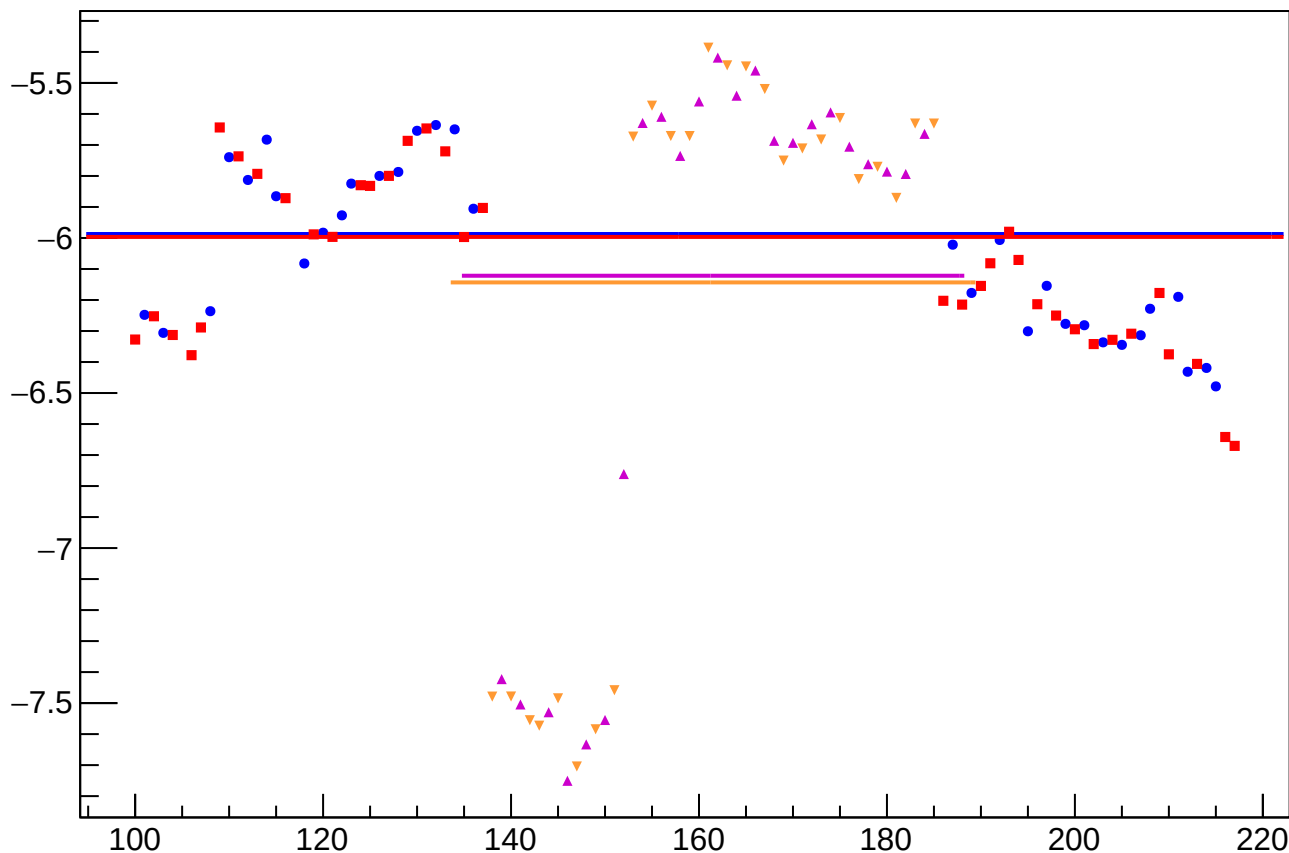
Right: 0.008+/-0.000 χ^2/NDF : 4695030.9/67

In: 0.007+/-0.000 χ^2/NDF : 3480620.5/54

Out: 0.007+/-0.000 χ^2/NDF : 3825073.3/60

All: 0.007+/-0.000 χ^2/NDF : 7309967.5/115

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.987+/-0.000 χ^2/NDF : 17542912306.5/31

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.997+/-0.000 χ^2/NDF : 20728570961.0/35

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

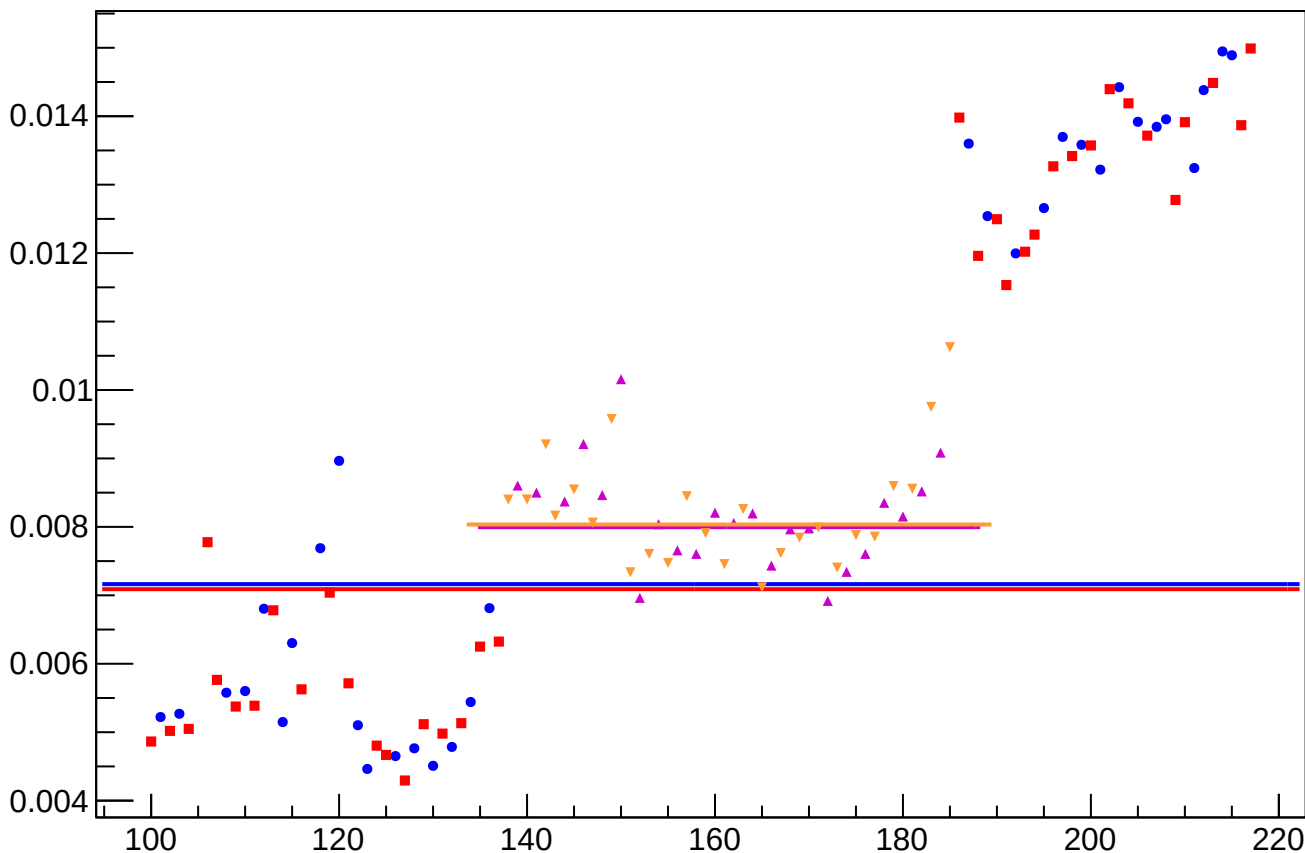
Right: -5.992+/-0.000 χ^2/NDF : 38283367654.2/67

In: -6.053+/-0.000 χ^2/NDF : 179743079621.9/54

Out: -6.066+/-0.000 χ^2/NDF : 209368937841.5/60

All: -6.060+/-0.000 χ^2/NDF : 389154278655.2

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6269183.9/31

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6549031.6/35

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

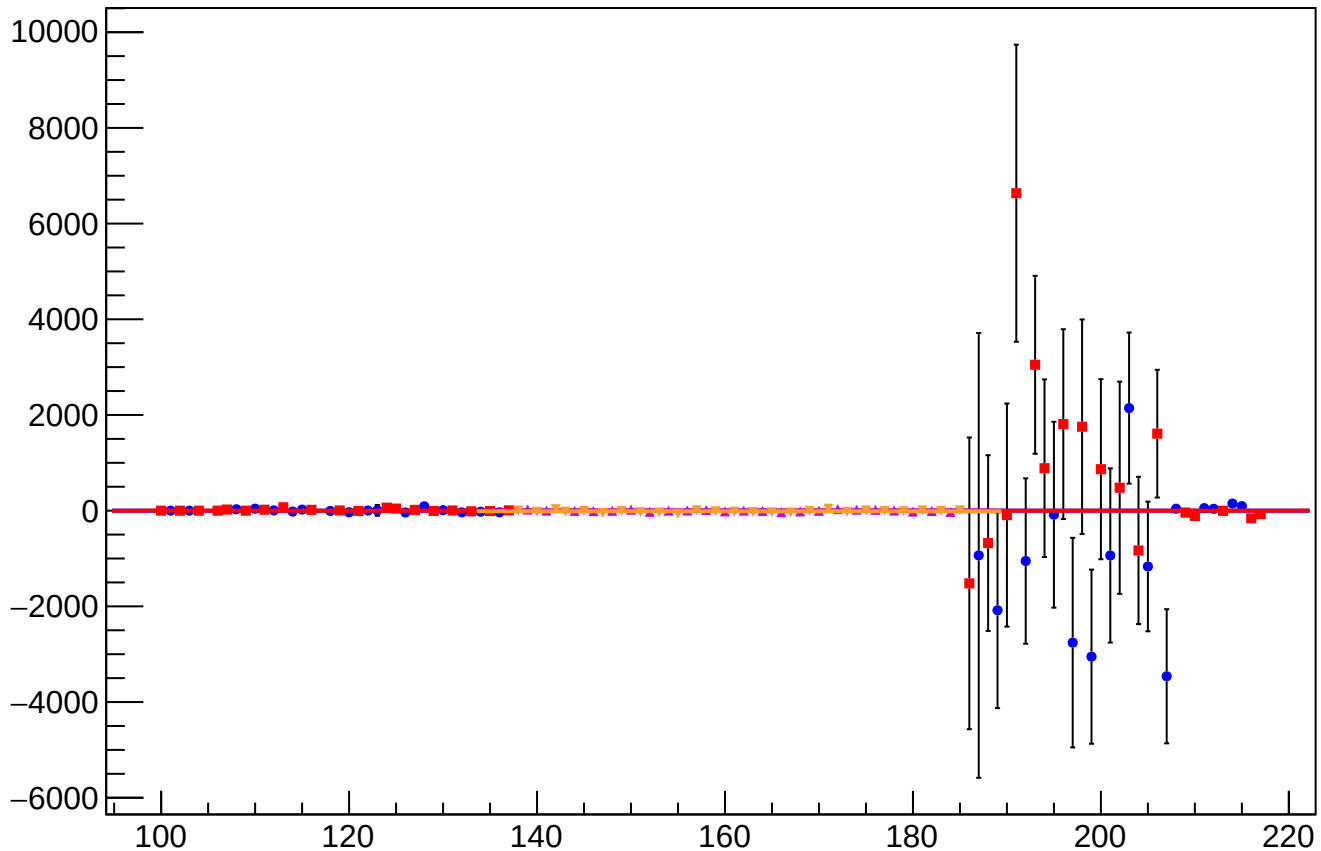
Right: 0.007+/-0.000 χ^2/NDF : 12819678.3/67

In: 0.008+/-0.000 χ^2/NDF :6664795.8/54

Out: 0.008+/-0.000 χ^2/NDF :6997104.8/60

All: 0.008+/-0.000 χ^2/NDF : 13662556.0/115

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 46.8/31$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 45.4/35$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

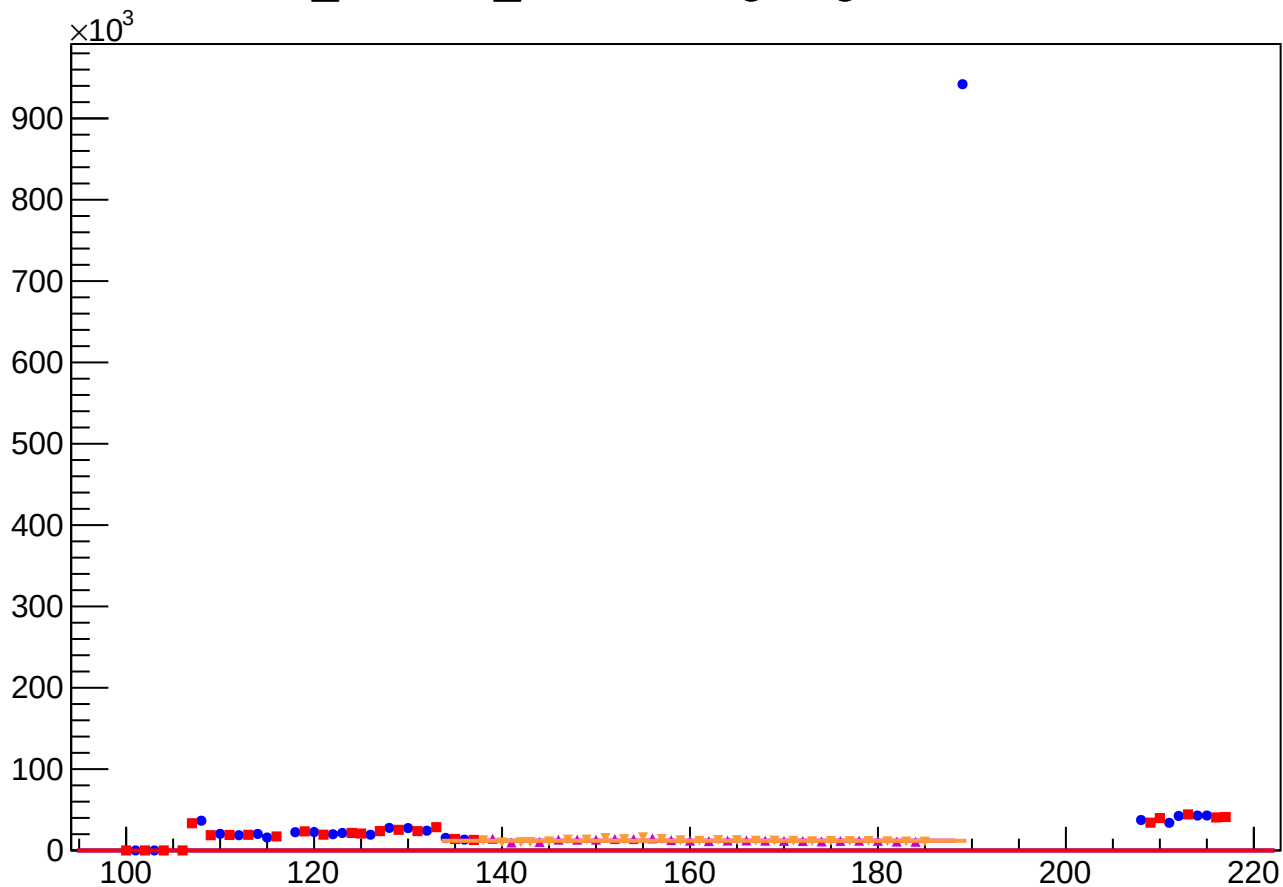
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 92.7/67$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 75.5/54$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 127.1/60$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 203.1/115$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.667 $\pm$ 0.012 χ^2 /NDF: 18016290.7/22

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.335 $\pm$ 0.011 χ^2 /NDF: 18322654.6/23

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

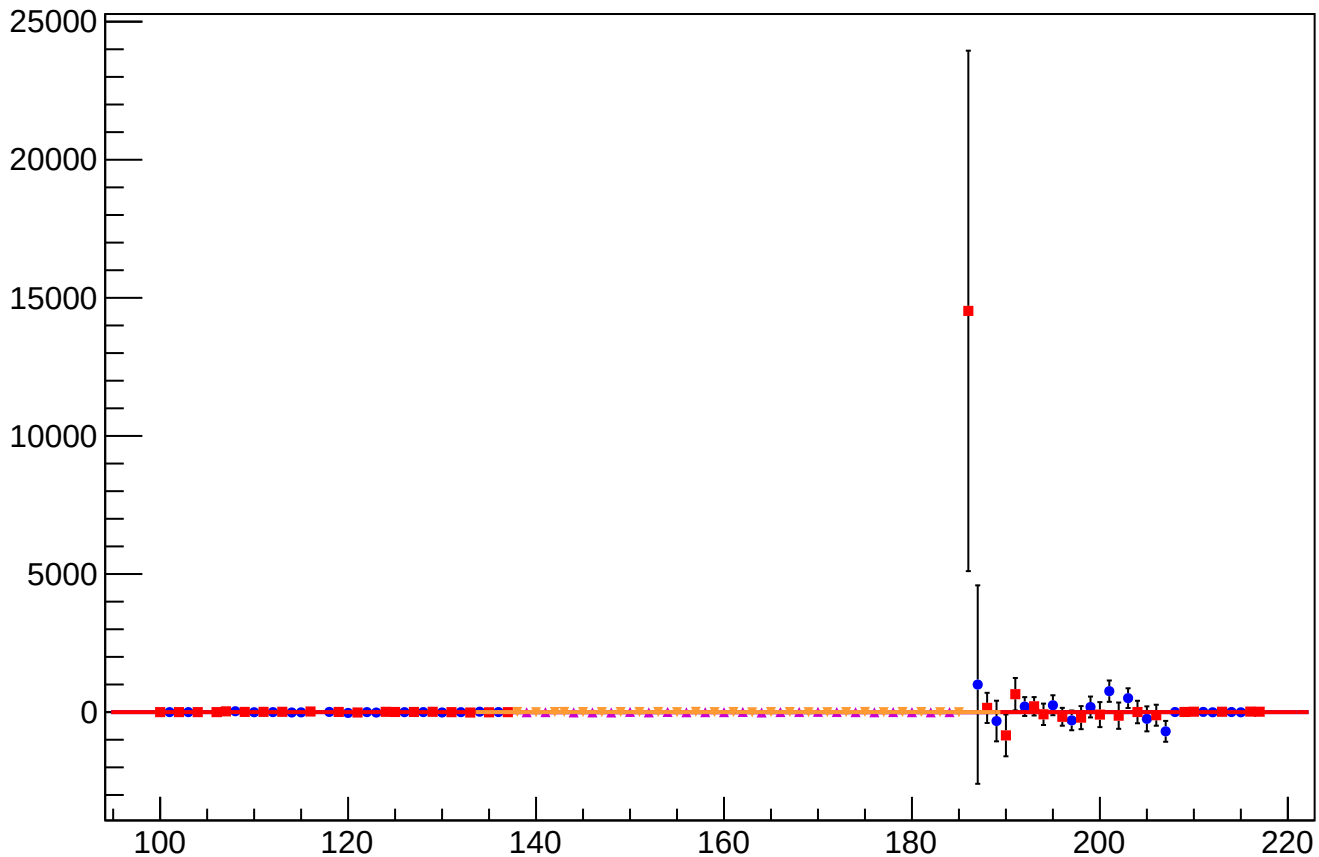
Right: 18.488 $\pm$ 0.008 χ^2 /NDF: 36339340.8/46

In: 19.096 $\pm$ 0.012 χ^2 /NDF: 52766630.5/45

Out: 18.727 $\pm$ 0.011 χ^2 /NDF: 54964951.8/48

All: 18.898 $\pm$ 0.008 χ^2 /NDF: 107732067.9/94

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 29.4/31

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 48.3/35

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF:35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

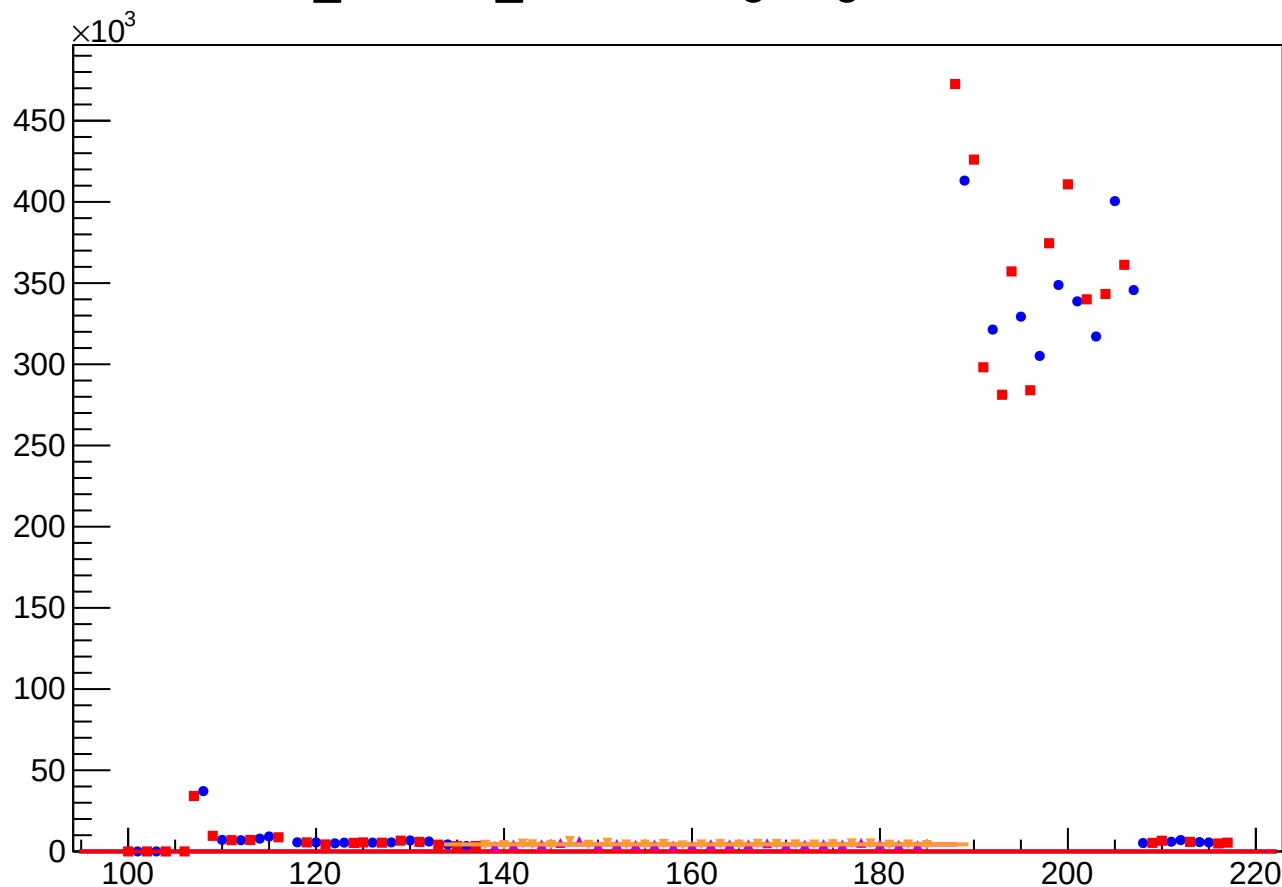
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 79.1/67

In: 0.001 $\pm$ 0.009 χ^2 /NDF:65.7/54

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:68.9/60

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 136.0/115

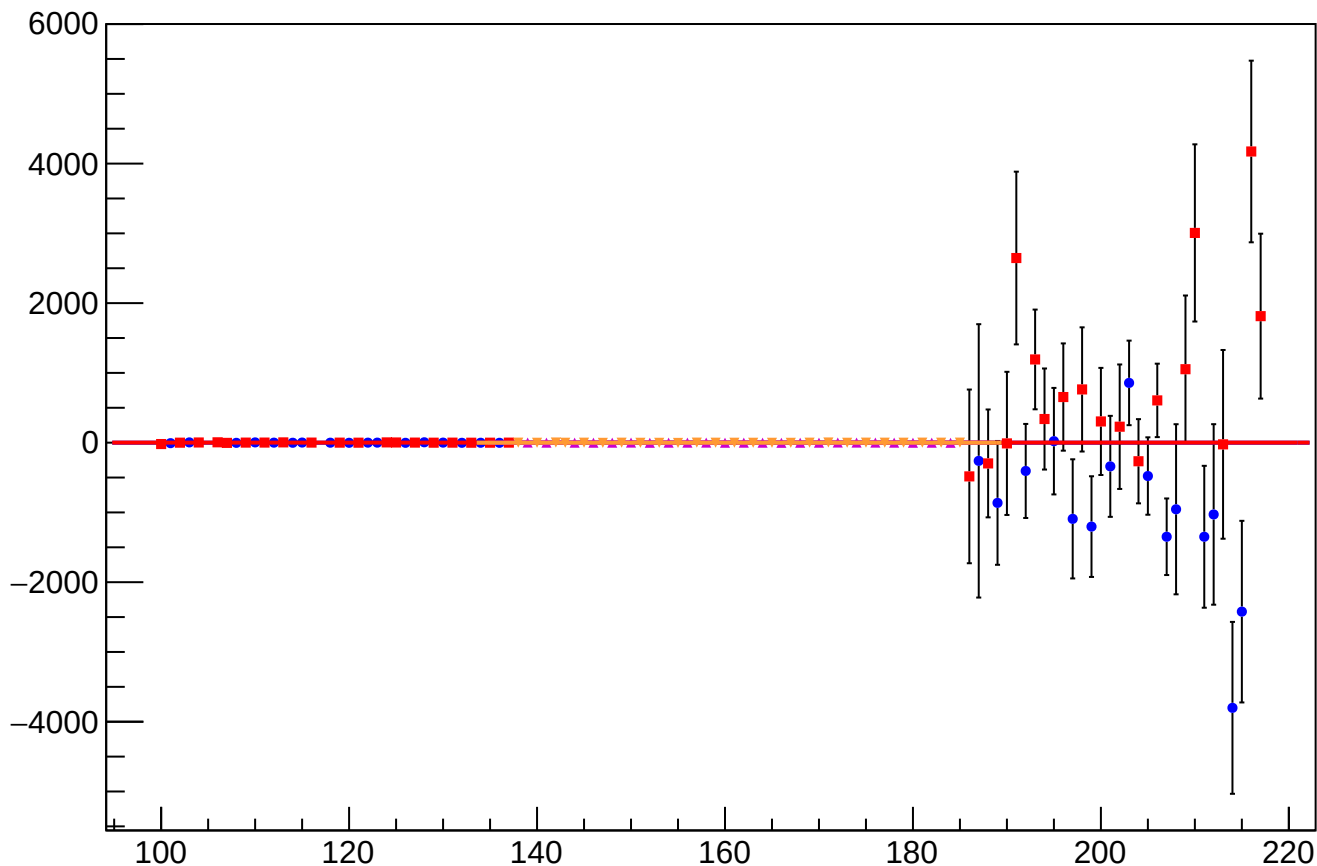
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.990 ± 0.007 χ^2/NDF : 31457720.9/30
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.904 ± 0.006 χ^2/NDF : 33088450.0/34
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.944 ± 0.004 χ^2/NDF : 64546263.3/65
 In: 10.325 ± 0.007 χ^2/NDF : 66052930.3/53
 Out: 10.215 ± 0.006 χ^2/NDF : 69617351.2/59
 All: 10.267 ± 0.004 χ^2/NDF : 135670431.2/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.706 ± 0.485 $\chi^2/\text{NDF}: 53.2/31$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.764 ± 0.502 $\chi^2/\text{NDF}: 42.0/35$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

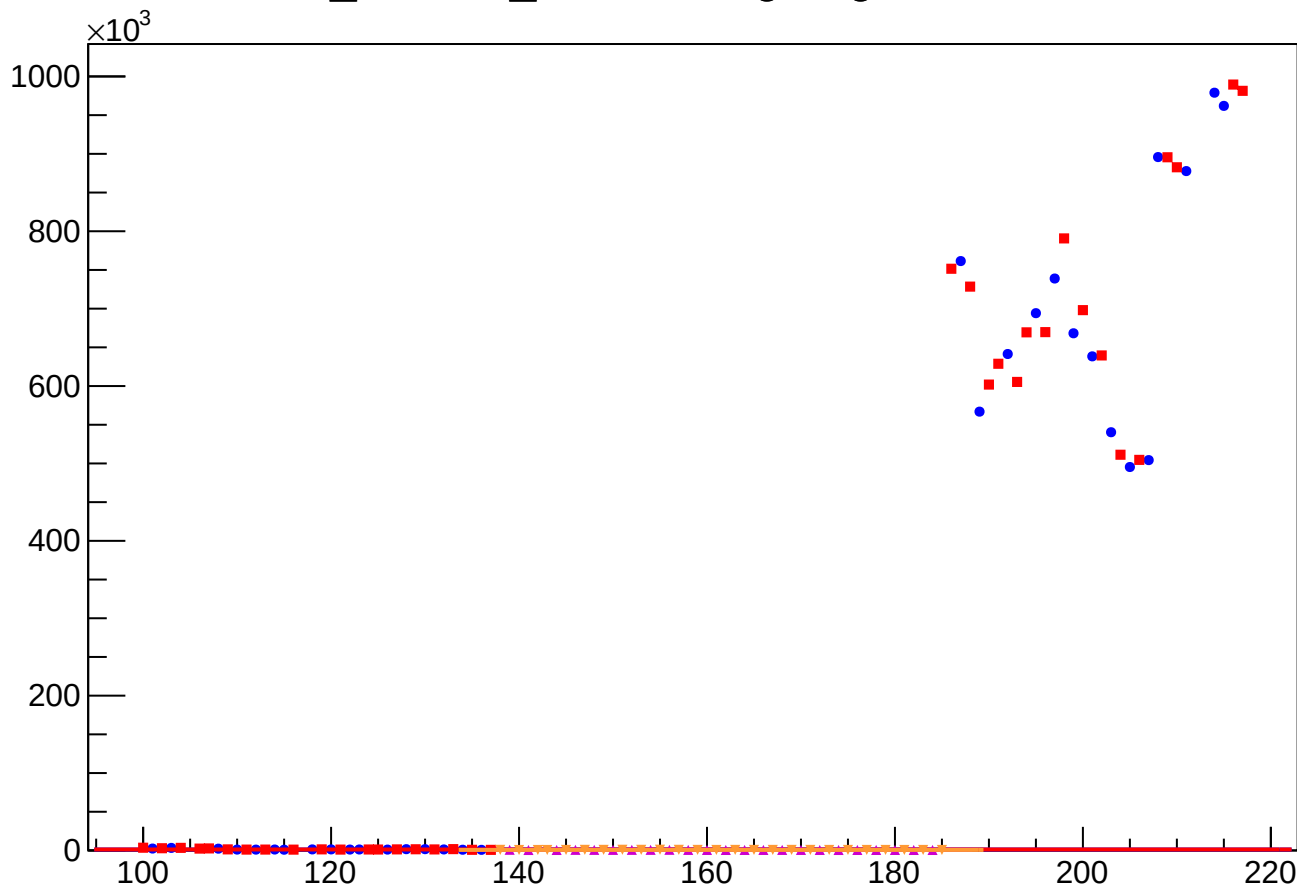
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 99.7/67$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 84.4/54$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 108.9/60$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 199.7/115$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.348 $\pm$ 0.343 χ^2 /NDF: 18558261.3/30

Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF: 392521.4/24

Right Out: 1252.656 $\pm$ 0.355 χ^2 /NDF: 19238469.7/34

Left In: 706.950 $\pm$ 0.120 χ^2 /NDF: 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47

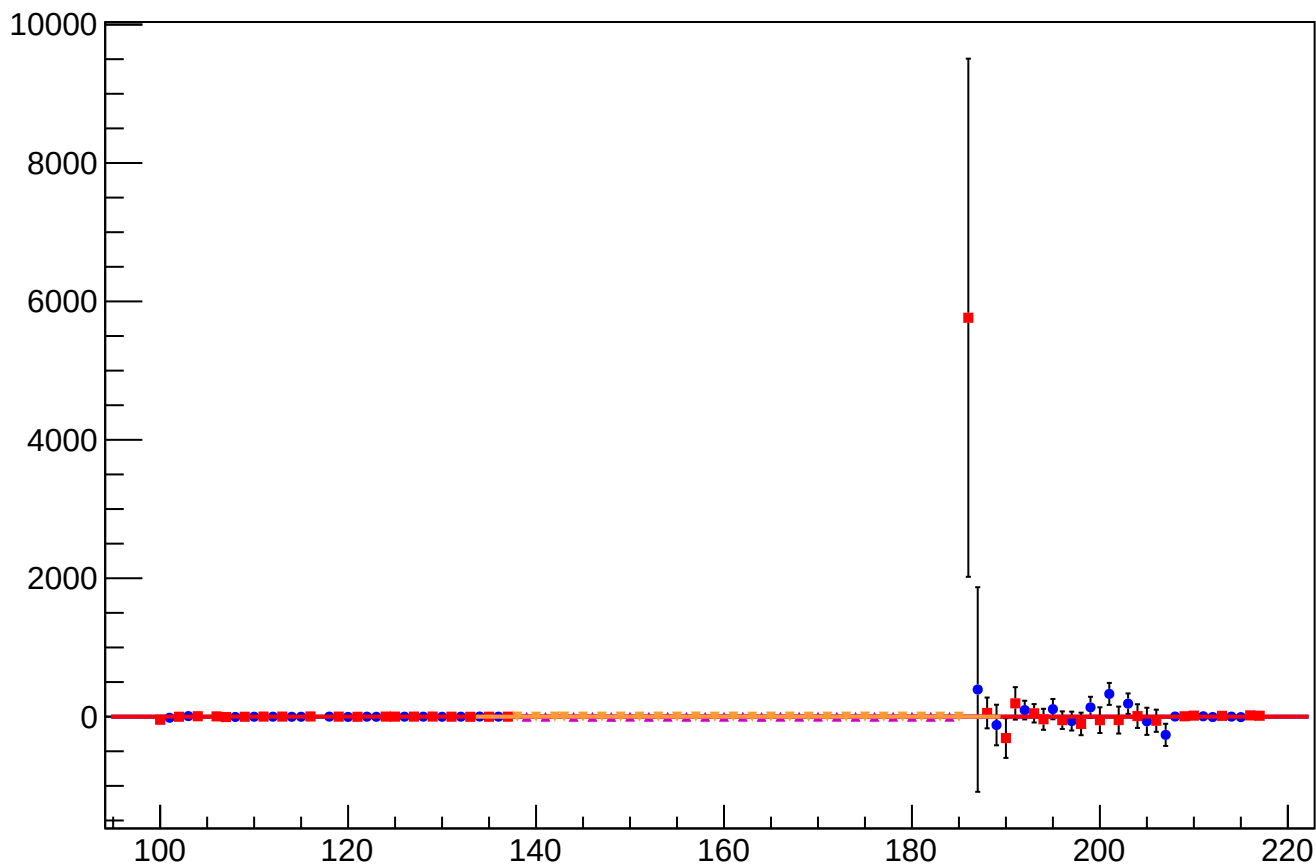
Right: 1208.526 $\pm$ 0.247 χ^2 /NDF: 37826597.8/65

In: 757.388 $\pm$ 0.114 χ^2 /NDF: 20501158.3/53

Out: 754.175 $\pm$ 0.110 χ^2 /NDF: 21813417.4/59

All: 755.737 $\pm$ 0.079 χ^2 /NDF: 42314987.2/112

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.061 ± 0.269 χ^2/NDF : 35.1/31

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.093 ± 0.263 χ^2/NDF : 57.3/35

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

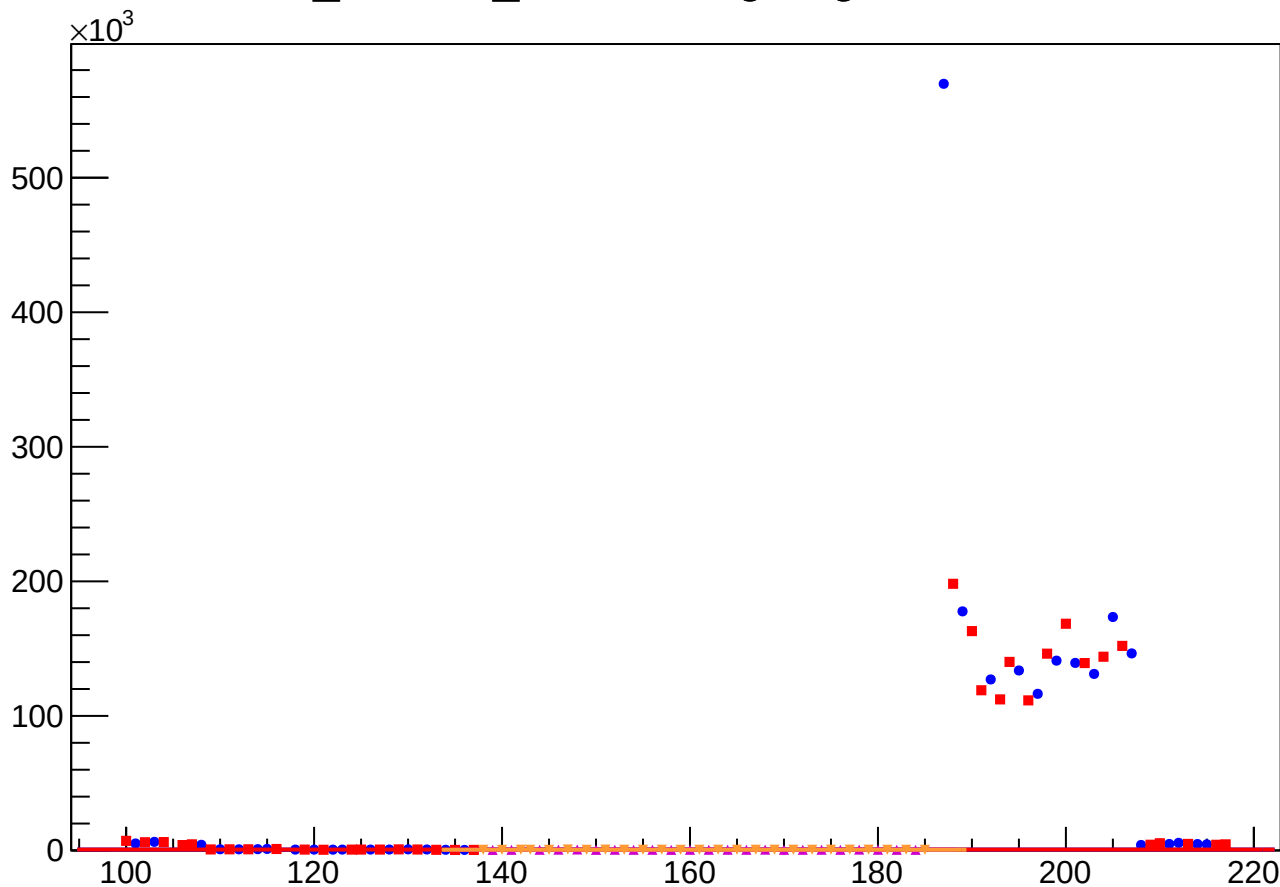
Right: -0.078 ± 0.188 χ^2/NDF : 92.4/67

In: -0.106 ± 0.114 χ^2/NDF : 70.1/54

Out: 0.178 ± 0.111 χ^2/NDF : 76.1/60

All: 0.039 ± 0.079 χ^2/NDF : 149.4/115

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 658.528 $\pm$ 0.190 χ^2/NDF : 22251985.6/31

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 650.499 $\pm$ 0.186 χ^2/NDF : 23731854.9/34

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

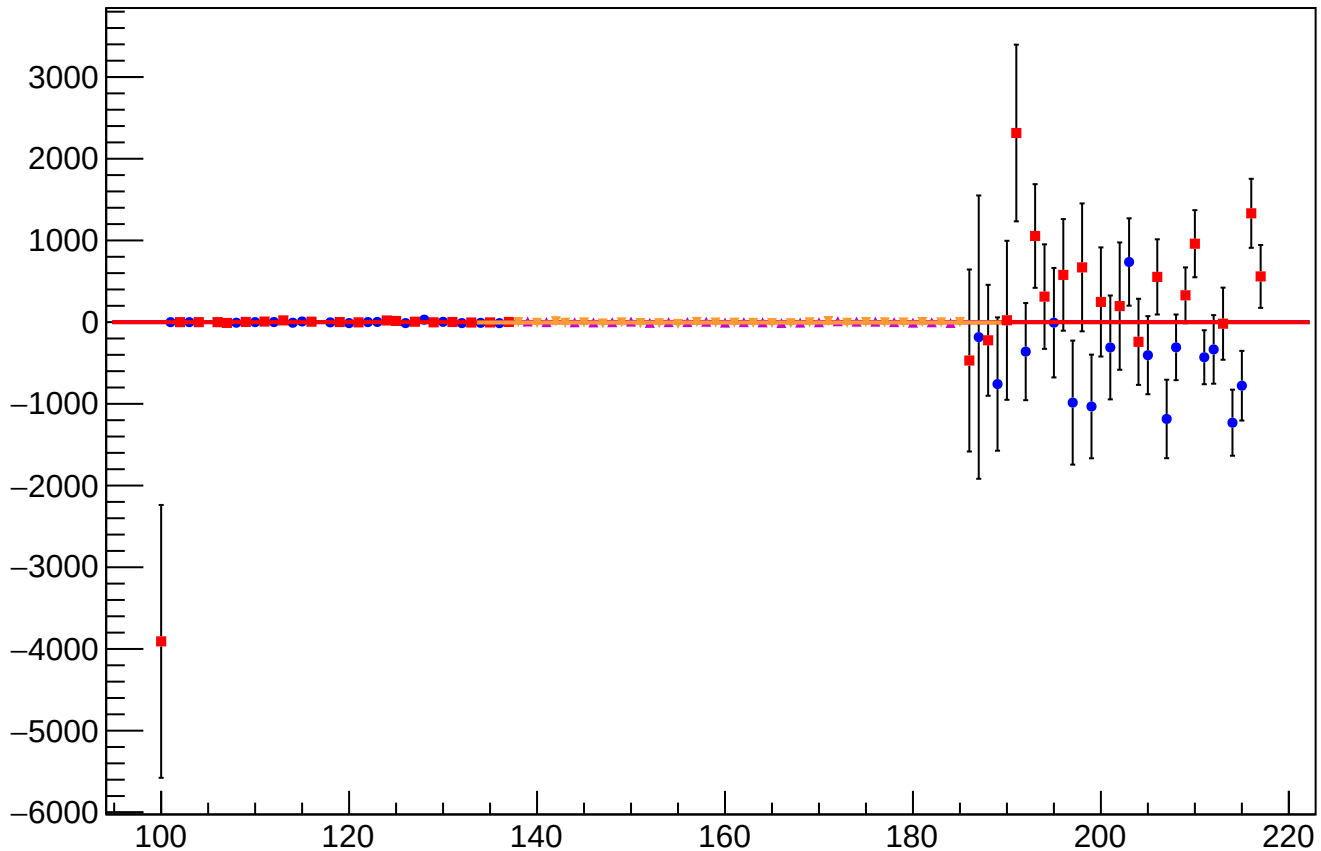
Right: 654.427 $\pm$ 0.133 χ^2/NDF : 45984750.5/66

In: 544.682 $\pm$ 0.080 χ^2/NDF : 23132824.3/54

Out: 545.206 $\pm$ 0.079 χ^2/NDF : 24452574.4/59

All: 544.950 $\pm$ 0.056 χ^2/NDF : 47585420.4/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 45.6/31

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 46.4/35

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

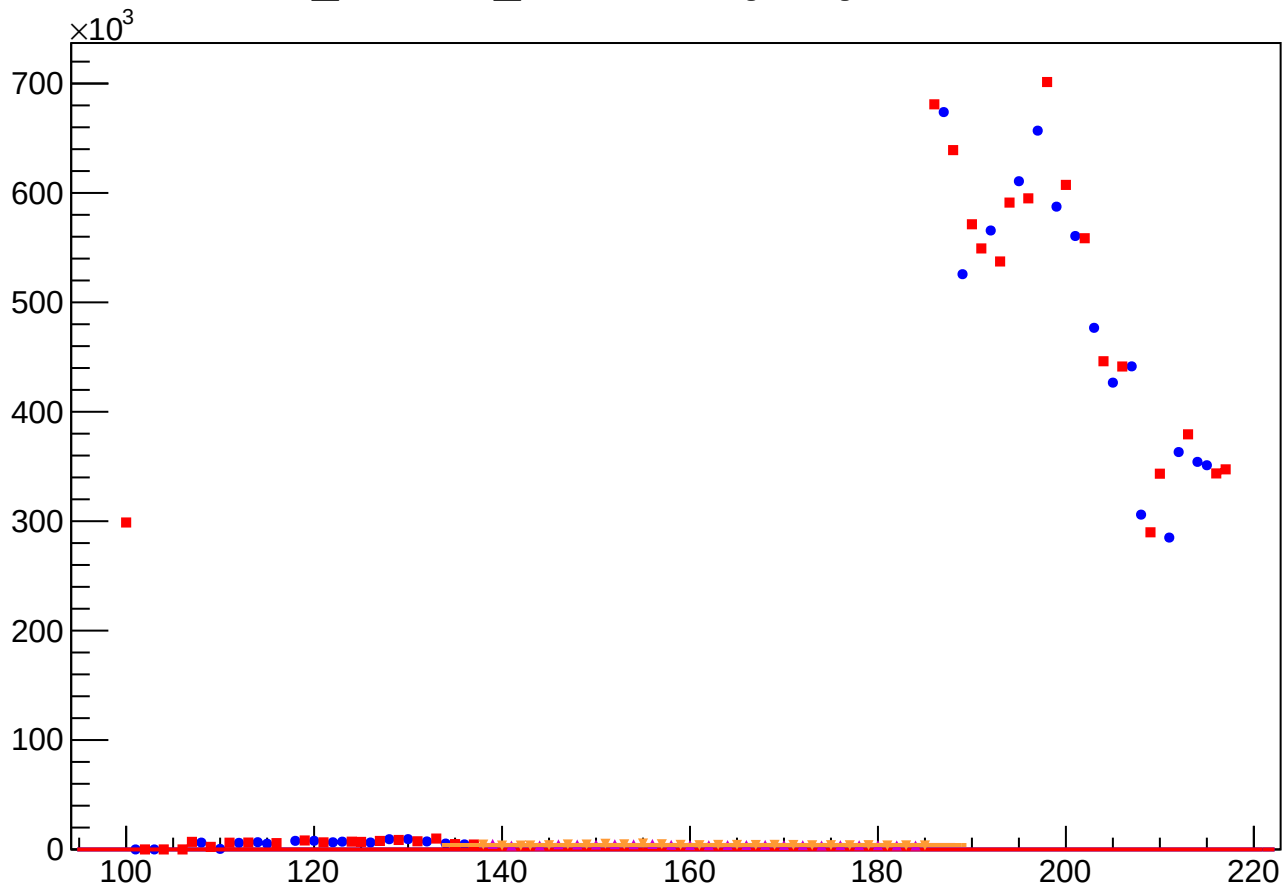
Right: 0.004 ± 0.014 χ^2/NDF : 94.9/67

In: -0.022 ± 0.021 χ^2/NDF : 74.9/54

Out: 0.025 ± 0.020 χ^2/NDF : 126.8/60

All: 0.003 ± 0.014 χ^2/NDF : 204.4/115

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.346+/-0.015 χ^2/NDF : 31603749.0/31

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.277+/-0.014 χ^2/NDF : 33956116.4/35

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

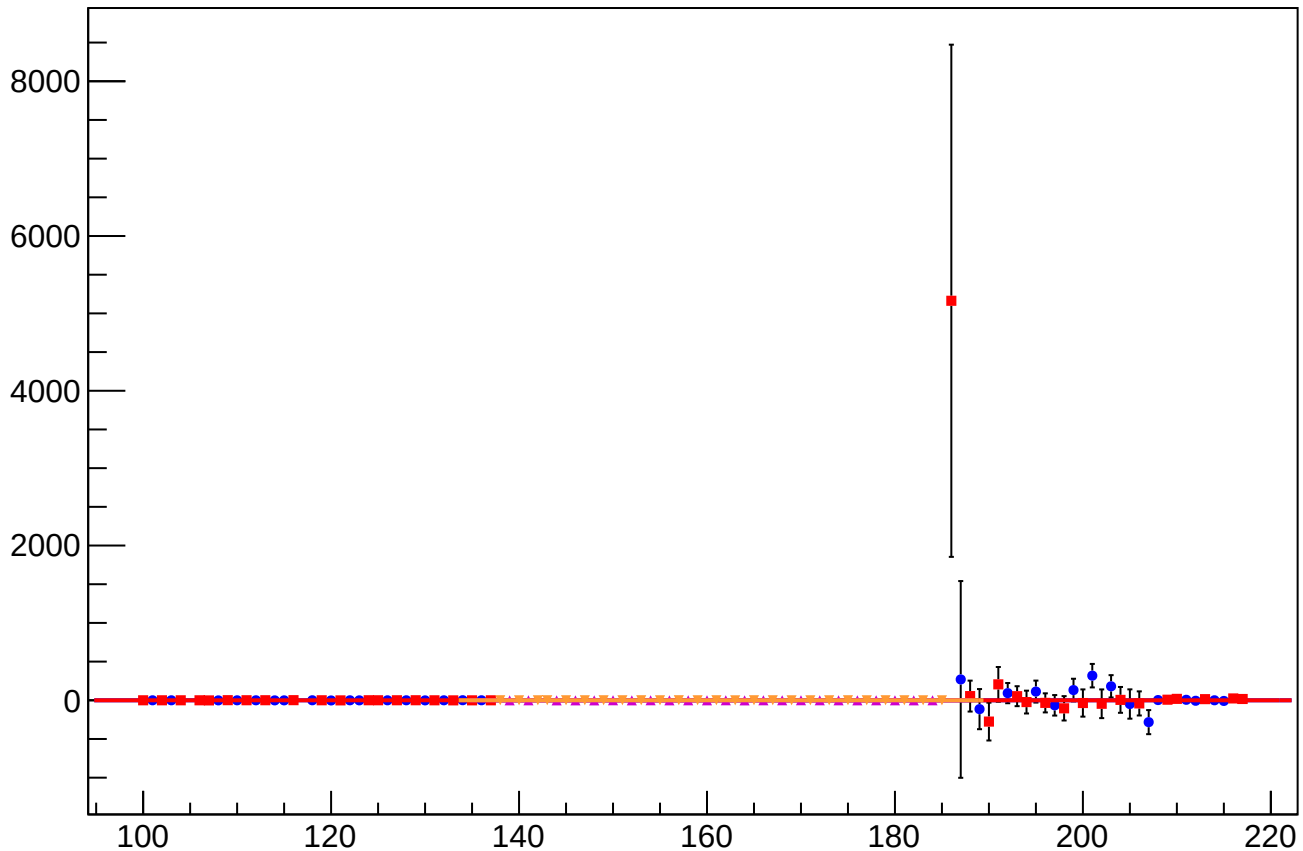
Right: 17.310+/-0.010 χ^2/NDF : 65559877.0/67

In: 19.152+/-0.015 χ^2/NDF : 66172823.4/54

Out: 19.014+/-0.014 χ^2/NDF : 70408938.9/60

All: 19.079+/-0.010 χ^2/NDF : 136581808.5/11

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 30.3/31

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 57.4/35

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

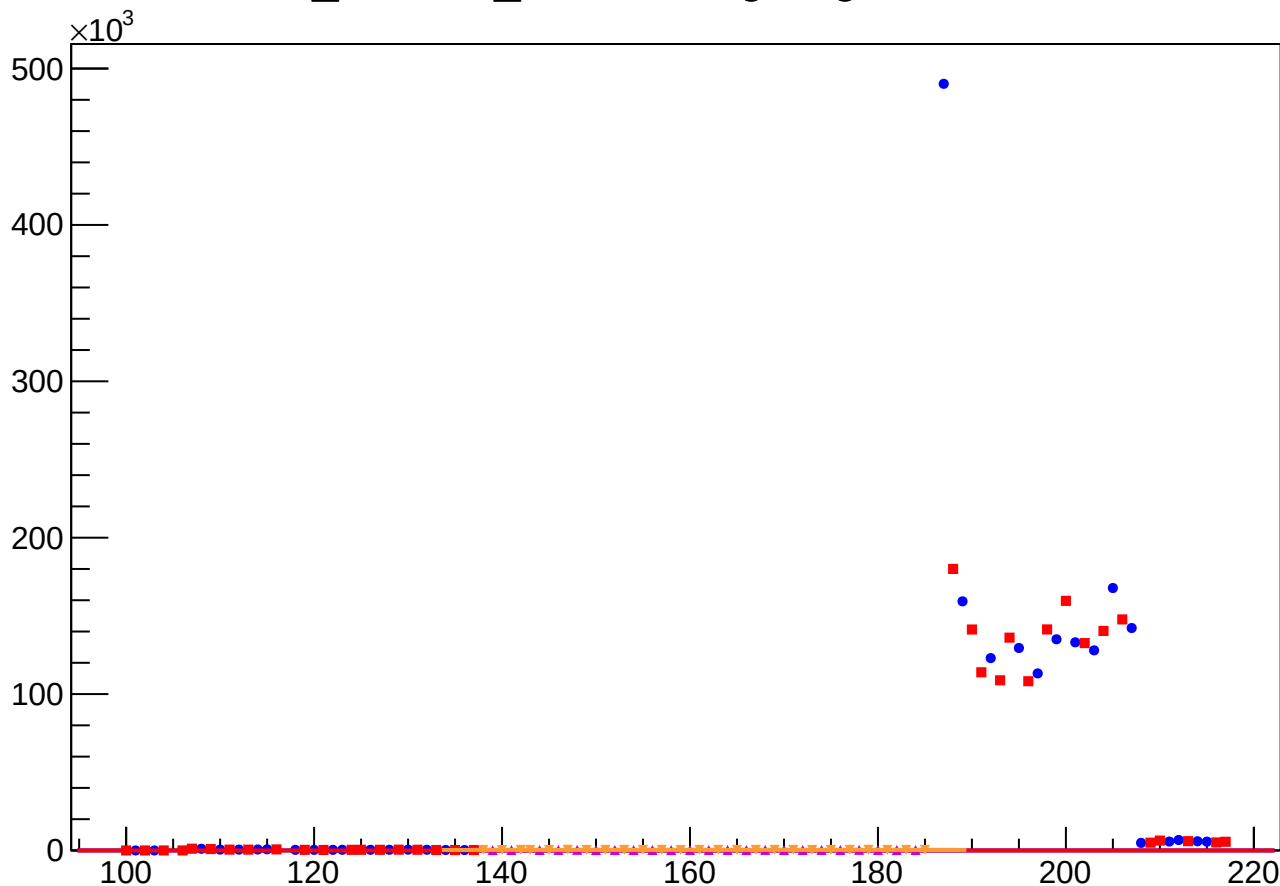
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 87.9/67

In: 0.000 $\pm$ 0.002 χ^2 /NDF:66.0/54

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:78.2/60

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 144.3/115

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.701+/-0.001 χ^2/NDF : 31862545.6/31

Left Out: 325.469+/-0.054 χ^2/NDF : 350046.8/24

Right Out: 1.731+/-0.001 χ^2/NDF : 32886055.5/34

Left In: 325.201+/-0.055 χ^2/NDF : 428069.7/22

Left: 325.339+/-0.039 χ^2/NDF : 778128.6/47

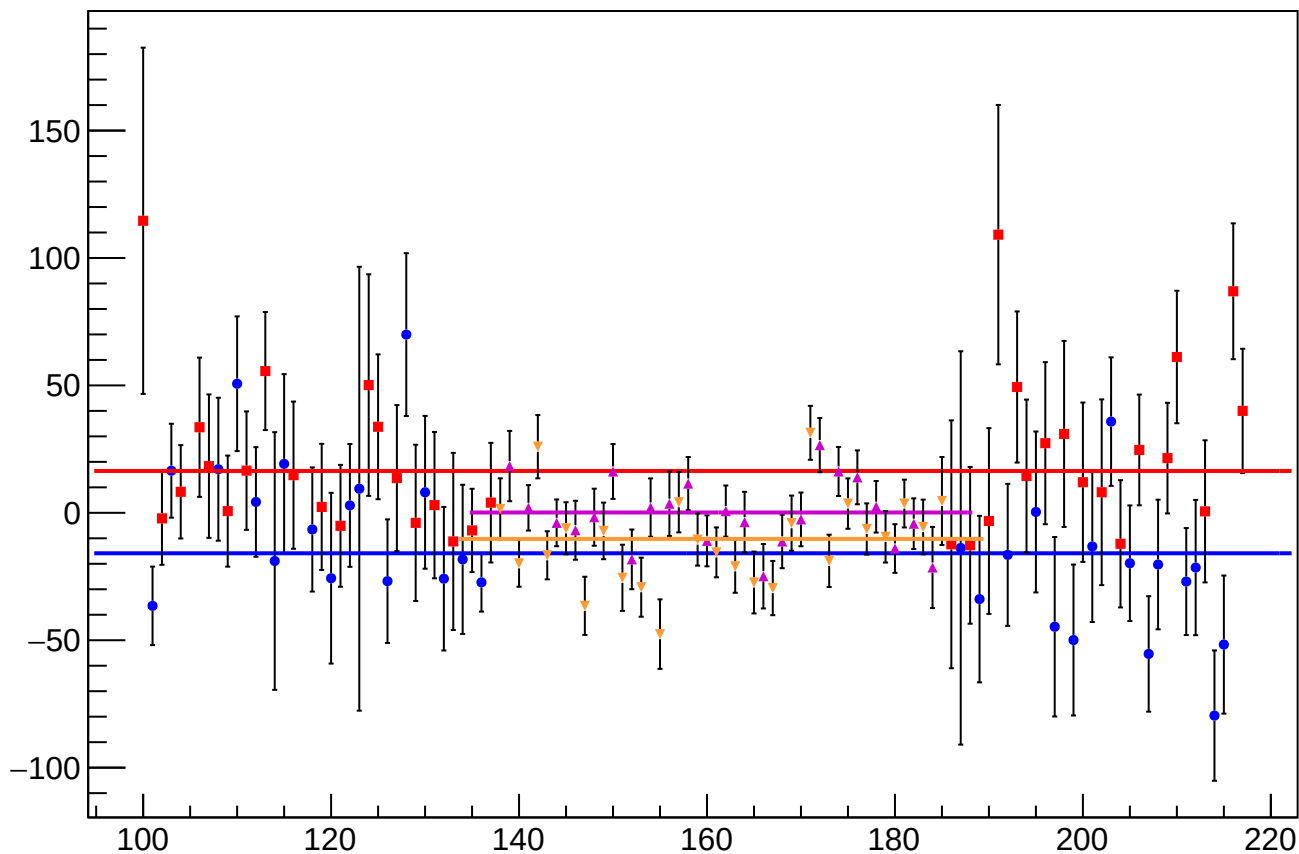
Right: 1.717+/-0.001 χ^2/NDF : 64748827.1/66

In: 1.916+/-0.001 χ^2/NDF : 66265441.5/54

Out: 1.940+/-0.001 χ^2/NDF : 69193319.5/59

All: 1.928+/-0.001 χ^2/NDF : 135458898.1/114

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -15.880 $\pm$ 4.406 χ^2/NDF : 42.7/31

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF :58.0/24

Right Out: 16.430 $\pm$ 4.430 χ^2/NDF : 32.0/35

Left In: 0.130 $\pm$ 2.242 χ^2/NDF :29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

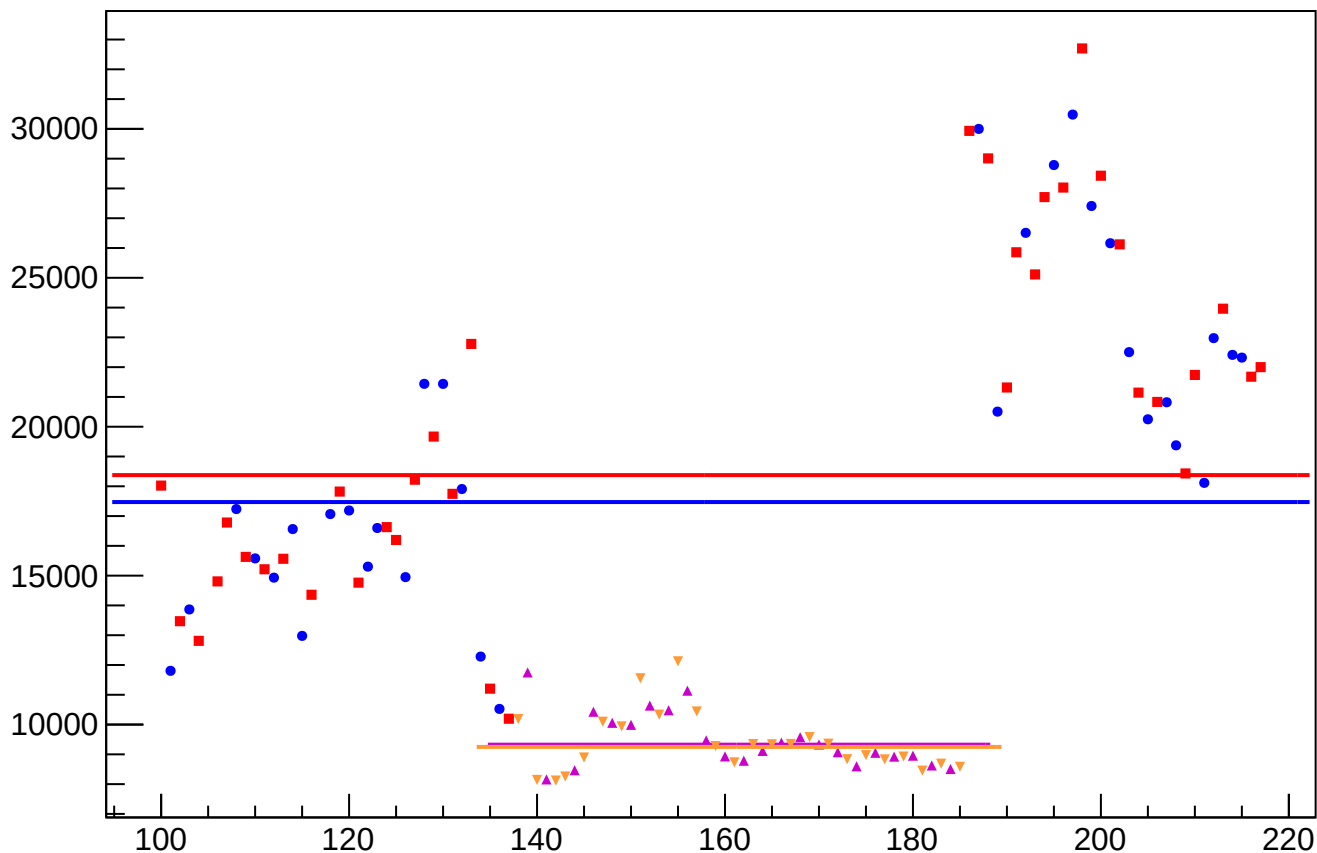
Right: 0.185 $\pm$ 3.124 χ^2/NDF : 101.5/67

In: -3.164 $\pm$ 1.998 χ^2/NDF :83.0/54

Out: -5.088 $\pm$ 1.946 χ^2/NDF :119.2/60

All: -4.151 $\pm$ 1.394 χ^2/NDF : 202.7/115

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17470.512 $\pm$ 3.115 χ^2/NDF : 2916503.1/31

Left Out: 9249.358 $\pm$ 1.532 χ^2/NDF :332003.4/24

Right Out: 18375.508 $\pm$ 3.133 χ^2/NDF : 2967300.7/35

Left In: 9325.112 $\pm$ 1.585 χ^2/NDF :280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2/NDF : 614111.7/47

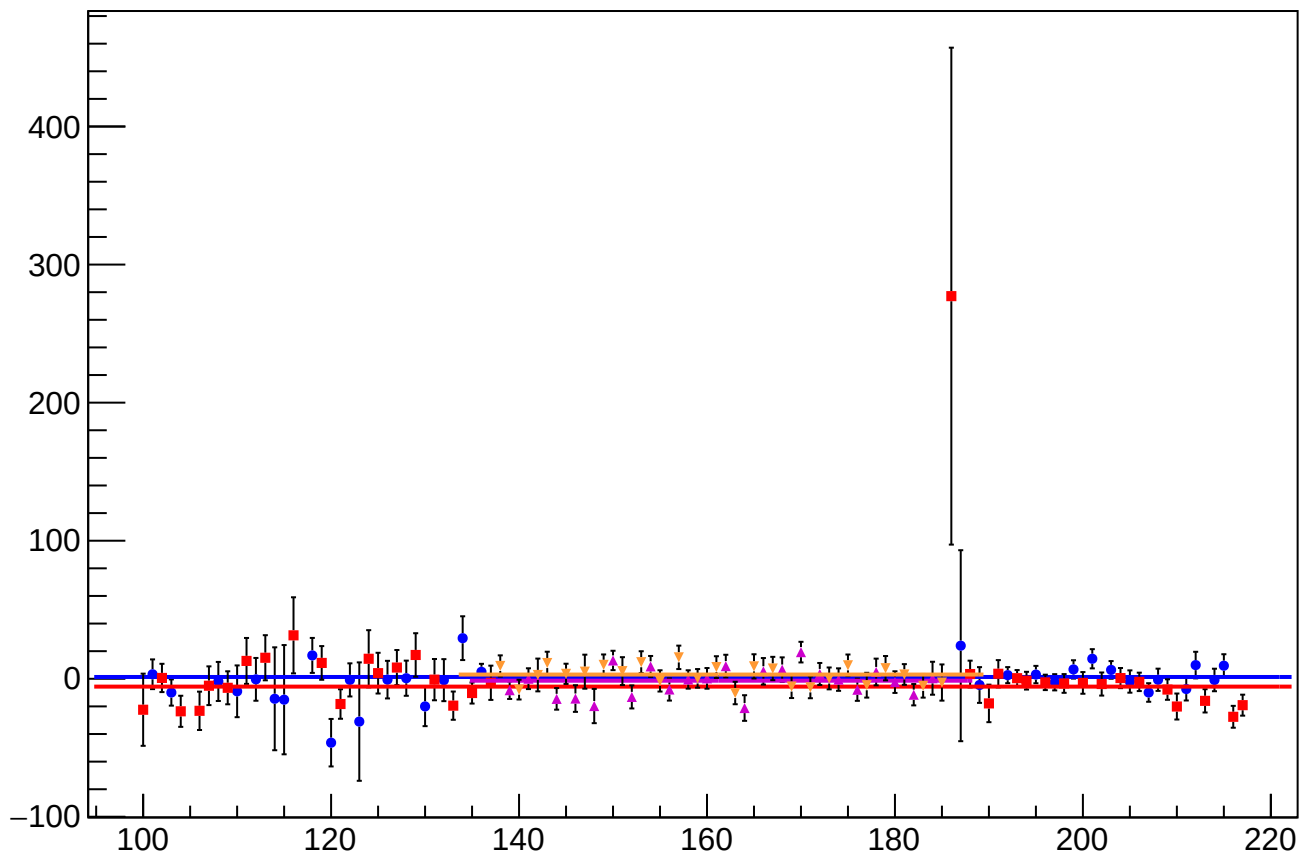
Right: 17920.486 $\pm$ 2.209 χ^2/NDF : 5925765.6/67

In: 11000.903 $\pm$ 1.413 χ^2/NDF :8627564.7/54

Out: 11010.822 $\pm$ 1.376 χ^2/NDF :10148137.3/60

All: 11005.993 $\pm$ 0.986 χ^2/NDF : 18775727.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.308 ± 1.644 χ^2/NDF : 29.5/31

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -5.672 ± 1.587 χ^2/NDF : 42.8/35

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

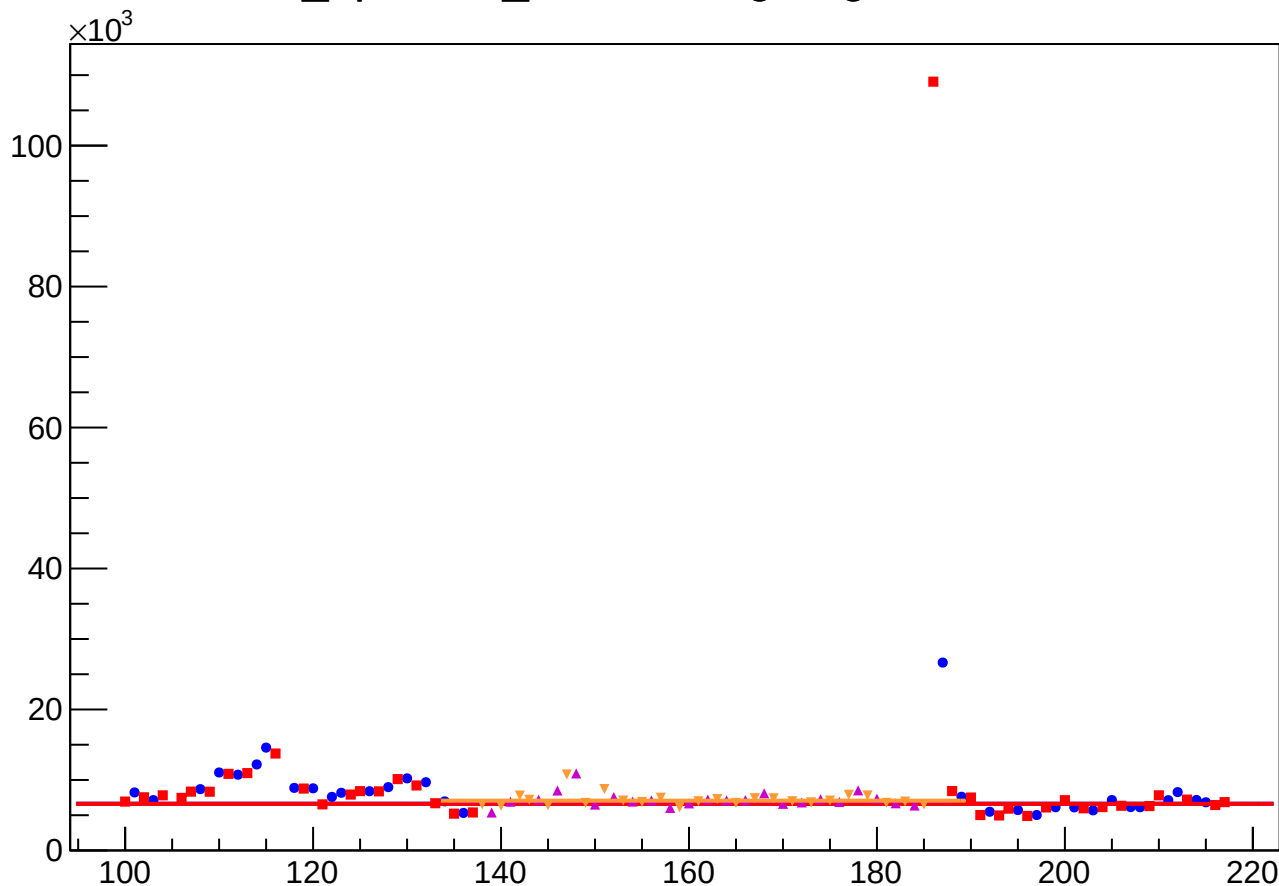
Right: -2.305 ± 1.142 χ^2/NDF : 81.7/67

In: -0.003 ± 1.179 χ^2/NDF : 66.2/54

Out: -1.499 ± 1.147 χ^2/NDF : 75.6/60

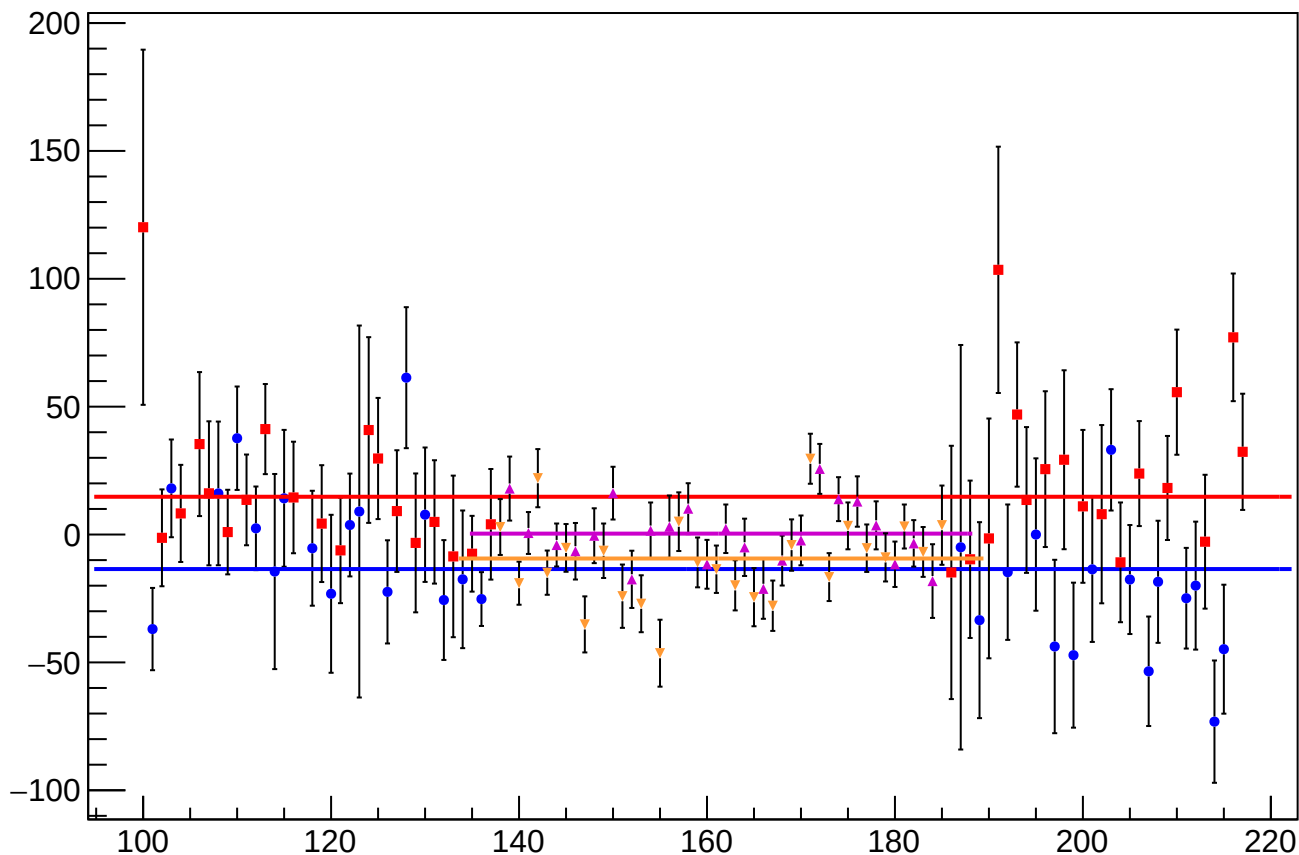
All: -0.772 ± 0.822 χ^2/NDF : 142.6/115

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6637.987 $\pm$ 1.162	χ^2/NDF : 1607532.3/31	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 6623.976 $\pm$ 0.807	χ^2/NDF : 3761468.0/67
Right Out: 6610.916 $\pm$ 1.122	χ^2/NDF : 2153654.9/35	In: 6813.865 $\pm$ 0.834	χ^2/NDF : 2204773.3/54
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 6828.749 $\pm$ 0.811	χ^2/NDF : 2619994.1/60
		All: 6821.516 $\pm$ 0.581	χ^2/NDF : 4824931.2/111

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -13.500 ± 4.034 χ^2/NDF : 43.5/31

Left Out: -9.376 ± 2.018 χ^2/NDF : 58.4/24

Right Out: 14.771 ± 4.024 χ^2/NDF : 30.2/35

Left In: 0.353 ± 2.092 χ^2/NDF : 29.6/22

Left: -4.688 ± 1.452 χ^2/NDF : 99.3/47

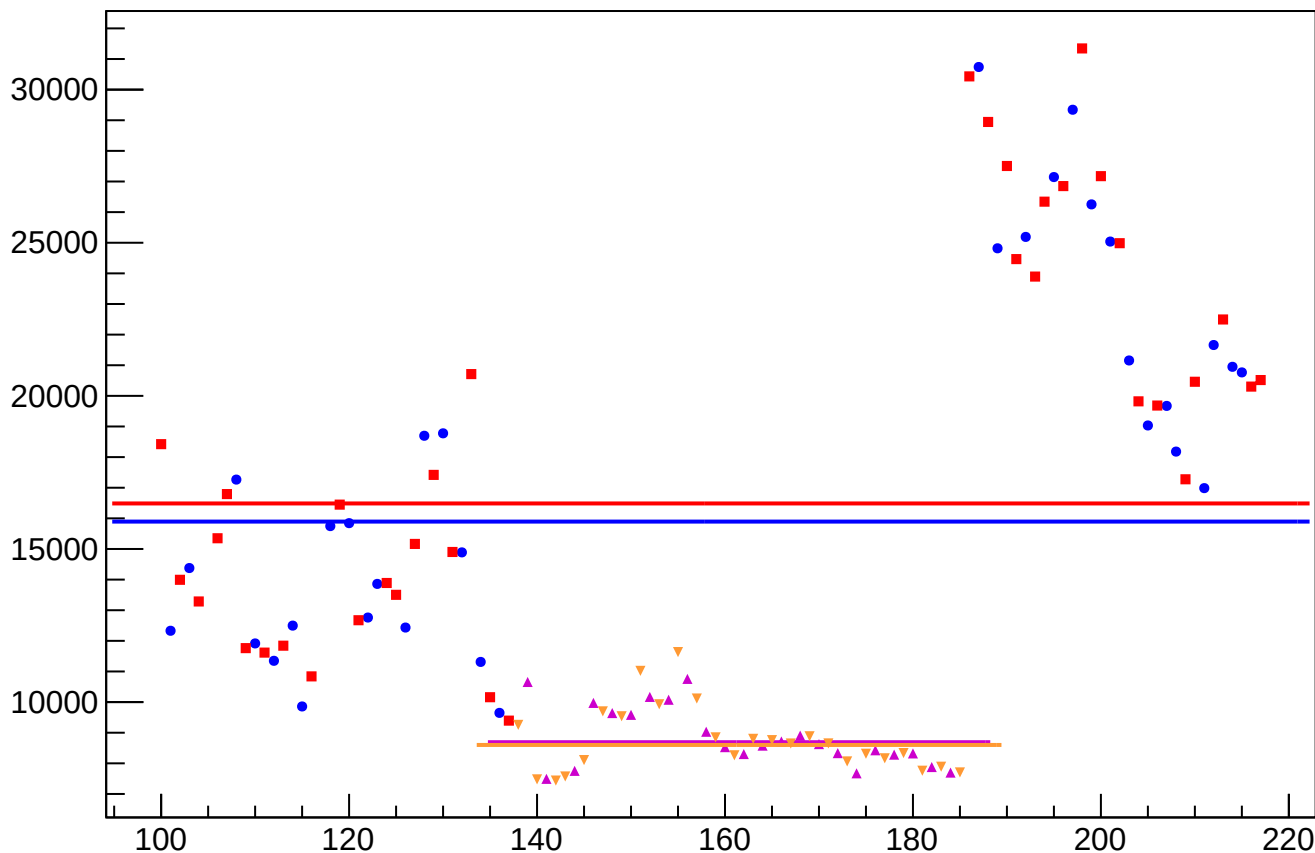
Right: 0.671 ± 2.849 χ^2/NDF : 98.3/67

In: -2.583 ± 1.857 χ^2/NDF : 82.4/54

Out: -4.525 ± 1.804 χ^2/NDF : 117.4/60

All: -3.582 ± 1.294 χ^2/NDF : 200.4/115

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15894.435 $\pm$ 2.852 χ^2 /NDF: 3384288.4/31

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16486.741 $\pm$ 2.845 χ^2 /NDF: 3782551.1/35

Left In: 8690.209 $\pm$ 1.479 χ^2 /NDF:370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2 /NDF: 810970.4/47

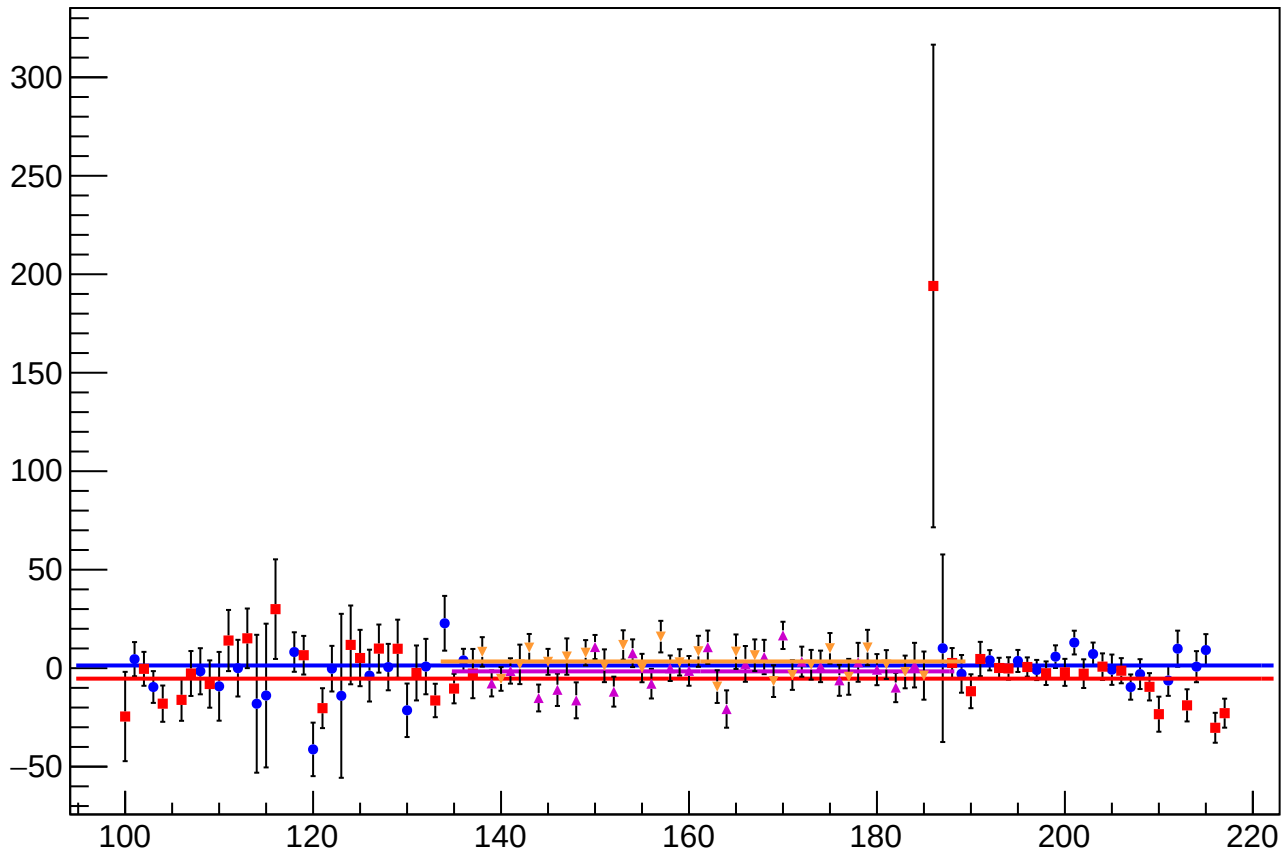
Right: 16191.314 $\pm$ 2.014 χ^2 /NDF: 7188451.7/67

In: 10217.360 $\pm$ 1.313 χ^2 /NDF:8781842.4/54

Out: 10184.894 $\pm$ 1.275 χ^2 /NDF:10358992.8/60

All: 10200.652 $\pm$ 0.915 χ^2 /NDF: 19141149.7

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.367 ± 1.488 χ^2/NDF : 31.2/31

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -5.319 ± 1.420 χ^2/NDF : 53.7/35

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

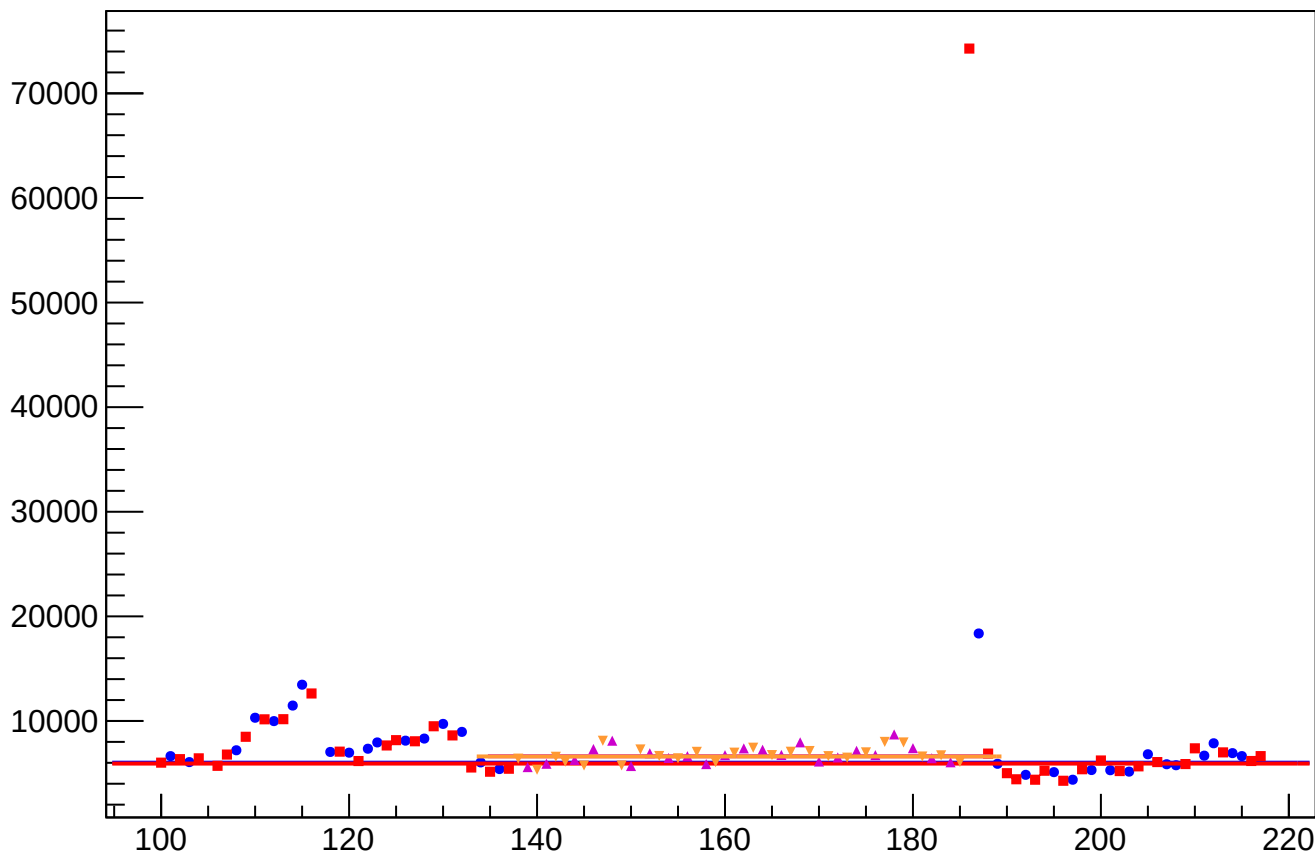
Right: -2.132 ± 1.027 χ^2/NDF : 95.4/67

In: -0.022 ± 1.089 χ^2/NDF : 66.5/54

Out: -1.338 ± 1.047 χ^2/NDF : 87.7/60

All: -0.706 ± 0.755 χ^2/NDF : 155.0/115

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6012.397+/-1.052 χ^2/NDF : 1639235.8/31

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5927.421+/-1.004 χ^2/NDF : 2254509.3/35

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

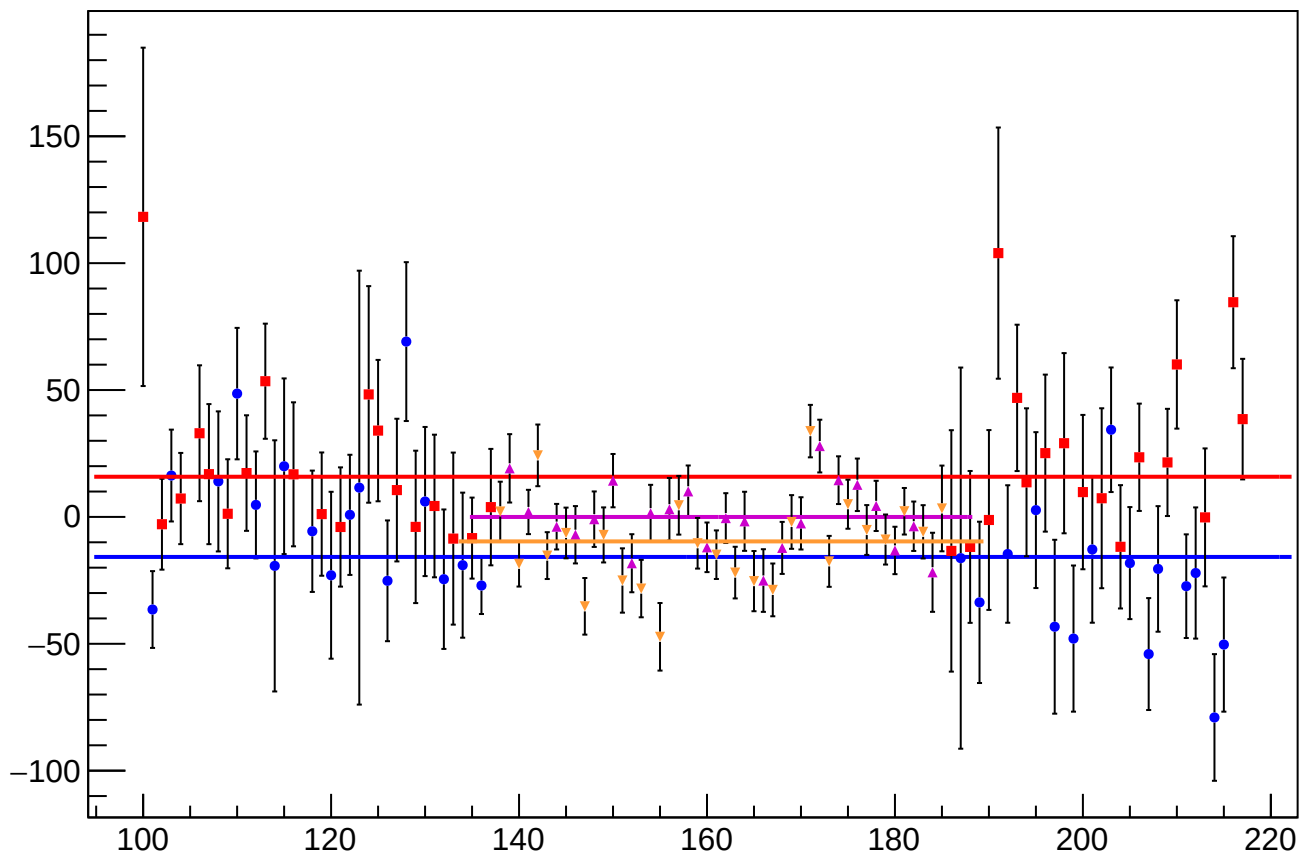
Right: 5967.933+/-0.726 χ^2/NDF : 3897158.6/67

In: 6298.348+/-0.770 χ^2/NDF : 2228721.1/54

Out: 6237.521+/-0.741 χ^2/NDF : 2861917.6/60

All: 6266.738+/-0.534 χ^2/NDF : 5093879.6/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -15.771 $\pm$ 4.307 χ^2/NDF : 42.7/31

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 15.831 $\pm$ 4.331 χ^2/NDF : 32.0/35

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

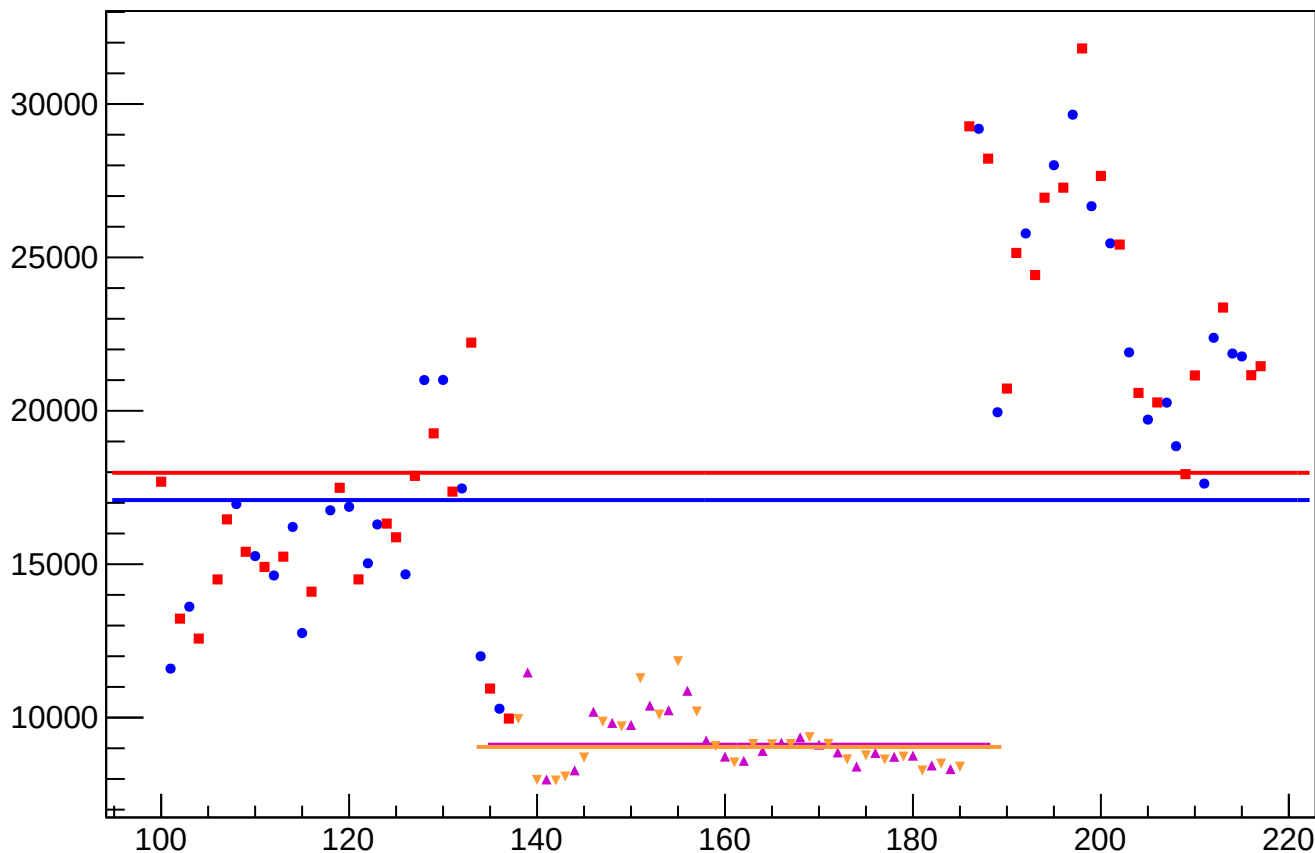
Right: -0.061 $\pm$ 3.054 χ^2/NDF : 101.5/67

In: -3.261 $\pm$ 1.954 χ^2/NDF : 83.9/54

Out: -4.731 $\pm$ 1.903 χ^2/NDF : 119.8/60

All: -4.015 $\pm$ 1.363 χ^2/NDF : 204.0/115

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17090.508 $\pm$ 3.045 χ^2 /NDF: 2869999.2/31

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 17979.636 $\pm$ 3.063 χ^2 /NDF: 2913529.5/35

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF: 277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

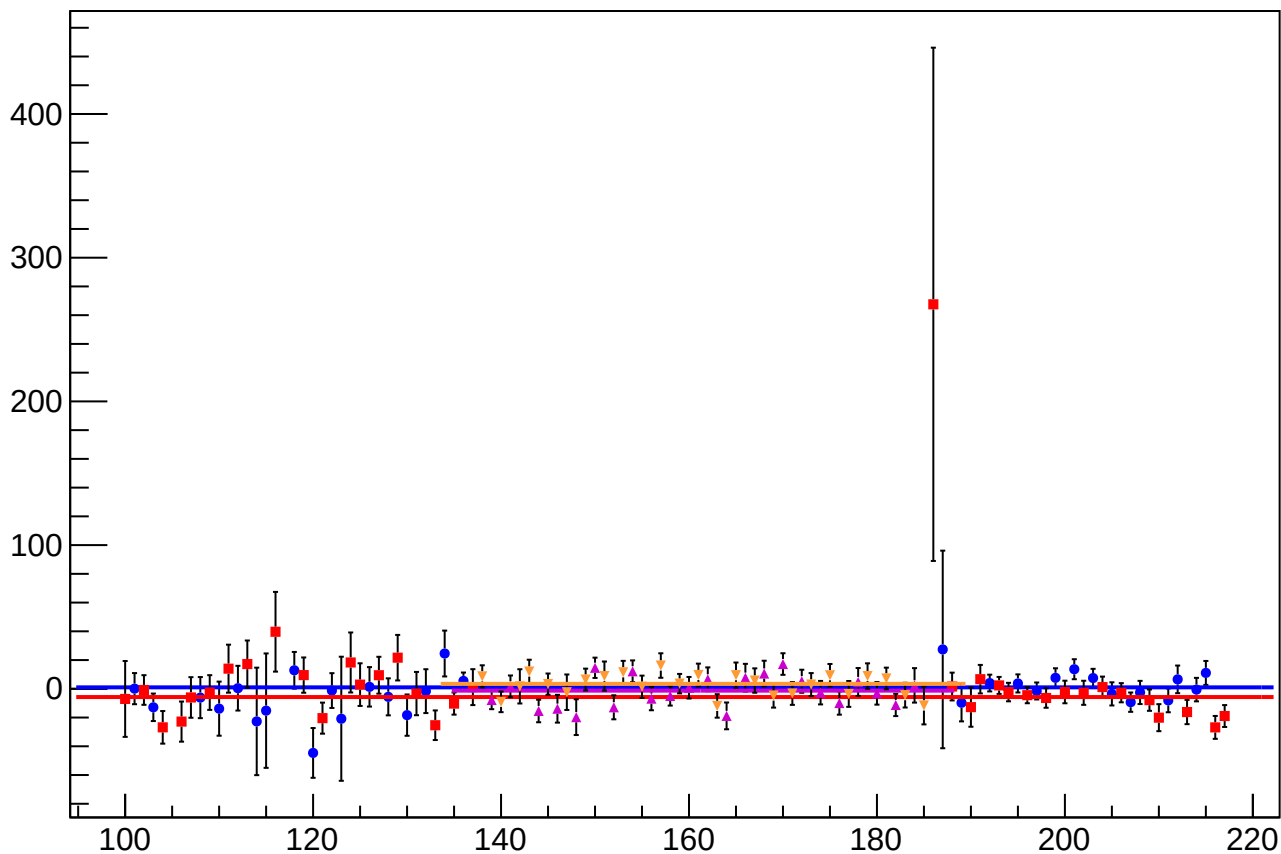
Right: 17532.517 $\pm$ 2.159 χ^2 /NDF: 5825908.9/67

In: 10757.586 $\pm$ 1.381 χ^2 /NDF: 8592929.9/54

Out: 10768.184 $\pm$ 1.346 χ^2 /NDF: 10111582.0/60

All: 10763.025 $\pm$ 0.964 χ^2 /NDF: 18704542.1

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.011 ± 1.648 χ^2/NDF : 29.2/31

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -5.738 ± 1.592 χ^2/NDF : 47.4/35

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

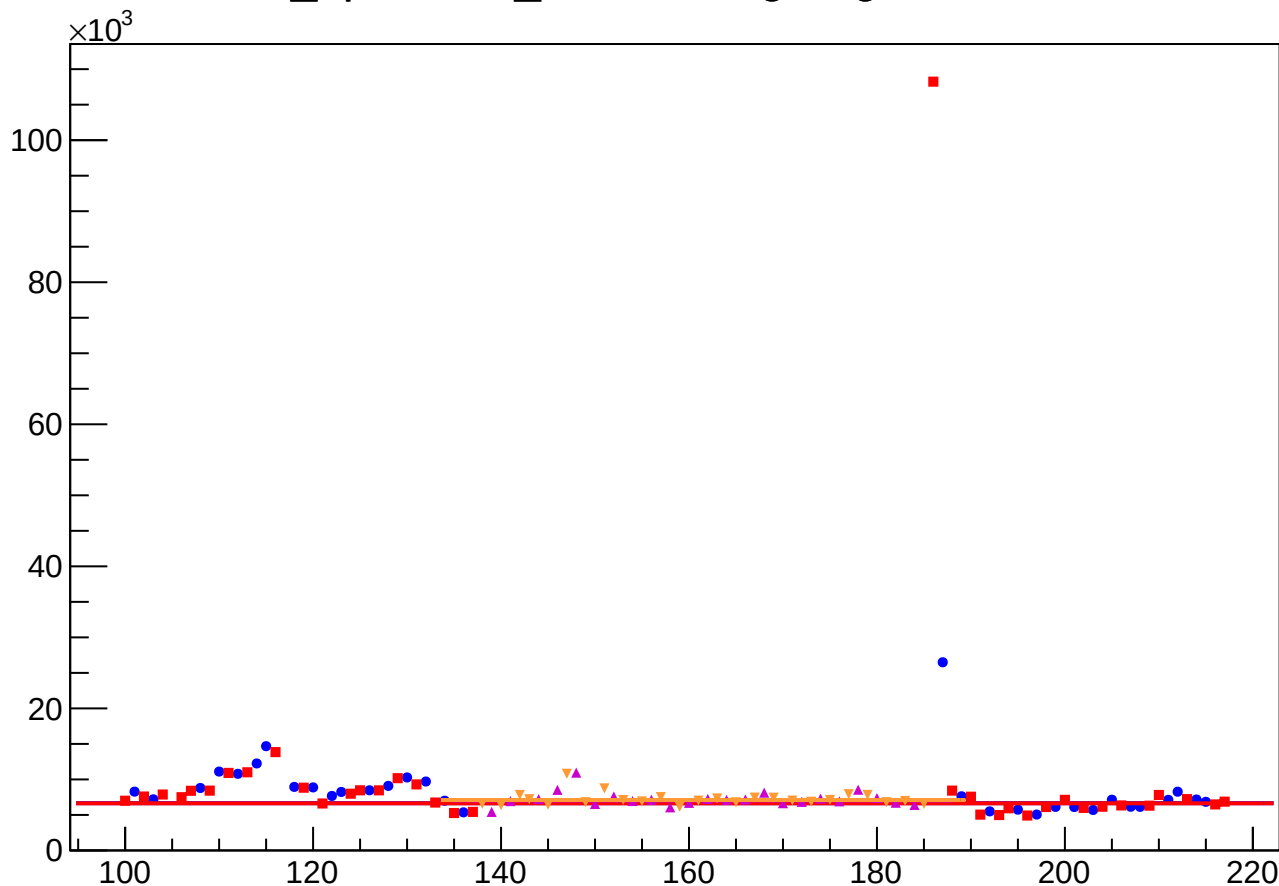
Right: -2.480 ± 1.145 χ^2/NDF : 85.3/67

In: -0.104 ± 1.184 χ^2/NDF : 66.7/54

Out: -1.356 ± 1.151 χ^2/NDF : 82.2/60

All: -0.748 ± 0.825 χ^2/NDF : 149.4/115

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6658.094 $\pm$ 1.166 χ^2/NDF : 1613782.2/31

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6635.702 $\pm$ 1.126 χ^2/NDF : 2156903.9/35

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

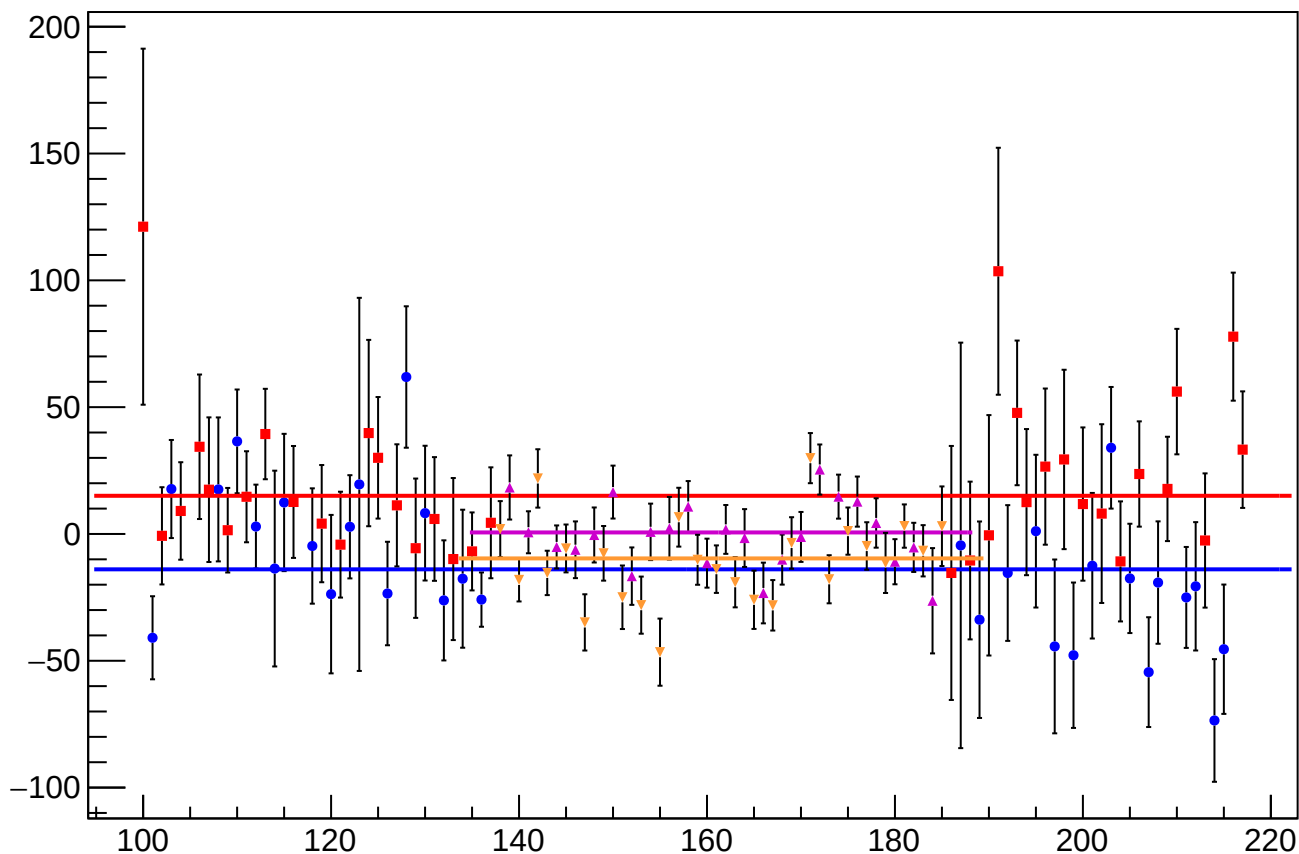
Right: 6646.512 $\pm$ 0.810 χ^2/NDF : 3770877.0/67

In: 6840.016 $\pm$ 0.837 χ^2/NDF : 2205111.2/54

Out: 6856.757 $\pm$ 0.814 χ^2/NDF : 2620177.6/60

All: 6848.620 $\pm$ 0.584 χ^2/NDF : 4825494.4/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -13.946 ± 4.085 χ^2/NDF : 44.0/31

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 15.052 ± 4.077 χ^2/NDF : 29.1/35

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

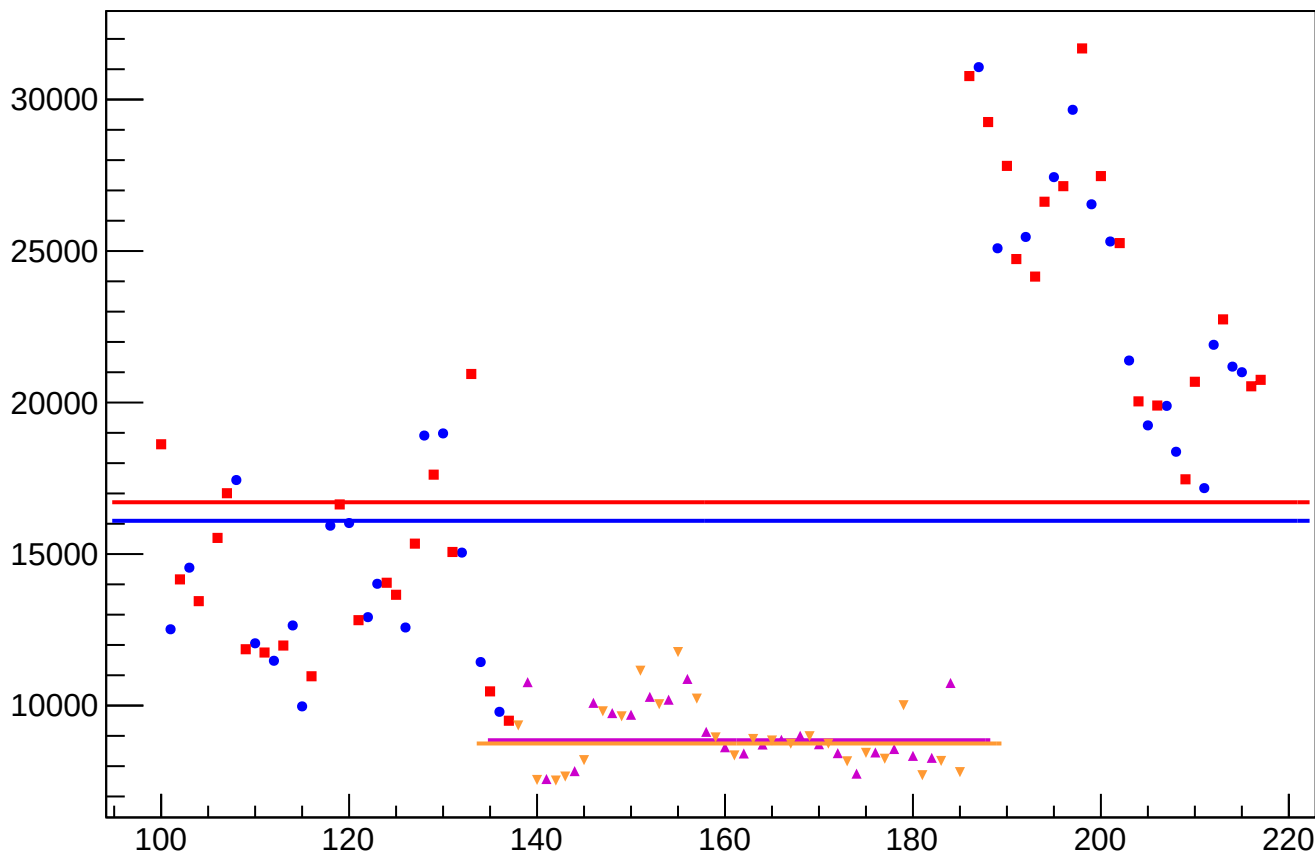
Right: 0.581 ± 2.886 χ^2/NDF : 98.3/67

In: -2.522 ± 1.892 χ^2/NDF : 83.6/54

Out: -4.629 ± 1.837 χ^2/NDF : 116.0/60

All: -3.607 ± 1.318 χ^2/NDF : 200.2/115

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16097.123+/-2.888 χ^2/NDF : 3360469.1/31

Left Out: 8748.407+/-1.455 χ^2/NDF : 463394.1/24

Right Out: 16709.590+/-2.883 χ^2/NDF : 3742163.4/35

Left In: 8855.591+/-1.510 χ^2/NDF : 367542.7/22

Left: 8800.011+/-1.048 χ^2/NDF : 833550.6/47

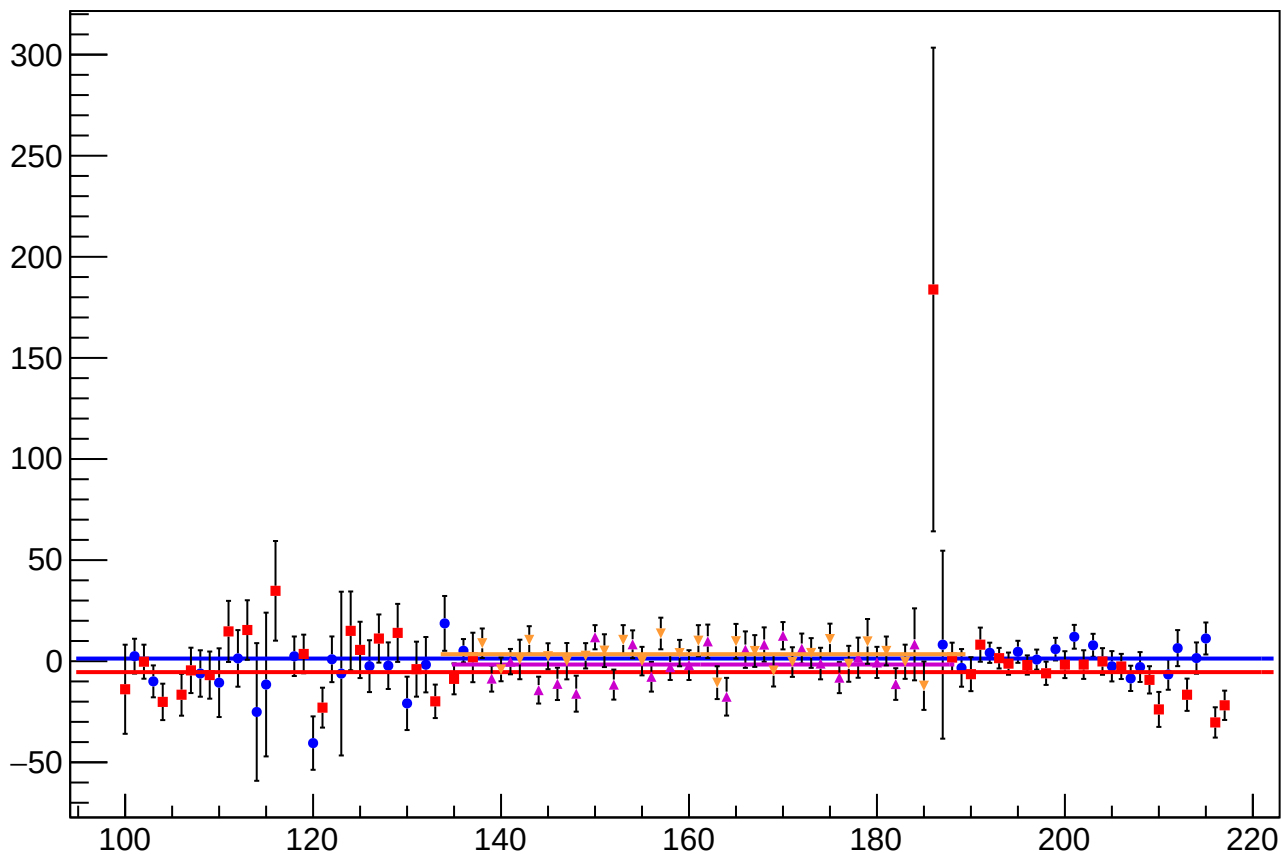
Right: 16403.947+/-2.040 χ^2/NDF : 7125158.9/67

In: 10409.506+/-1.338 χ^2/NDF : 8665191.8/54

Out: 10364.247+/-1.299 χ^2/NDF : 10284481.9/60

All: 10386.203+/-0.932 χ^2/NDF : 18950262.9

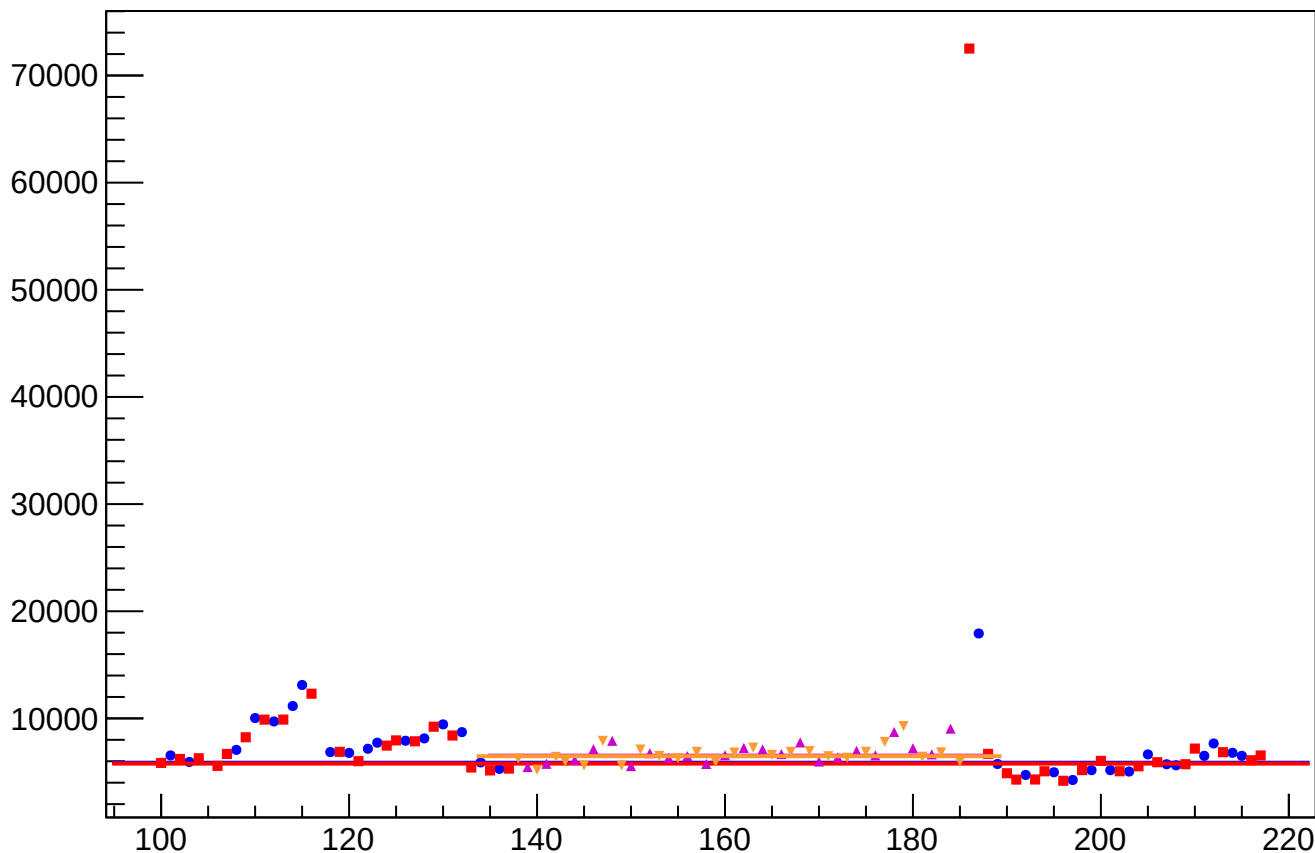
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.314 ± 1.452 $\chi^2/\text{NDF}: 31.3/31$
Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$
Right Out: -5.395 ± 1.386 $\chi^2/\text{NDF}: 57.4/35$
Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$
Right: -2.196 ± 1.002 $\chi^2/\text{NDF}: 99.9/67$
In: -0.039 ± 1.068 $\chi^2/\text{NDF}: 66.9/54$
Out: -1.383 ± 1.025 $\chi^2/\text{NDF}: 91.7/60$
All: -0.738 ± 0.740 $\chi^2/\text{NDF}: 159.4/115$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5863.292+/-1.026 χ^2/NDF : 1648108.5/31

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5781.127+/-0.980 χ^2/NDF : 2250808.4/35

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

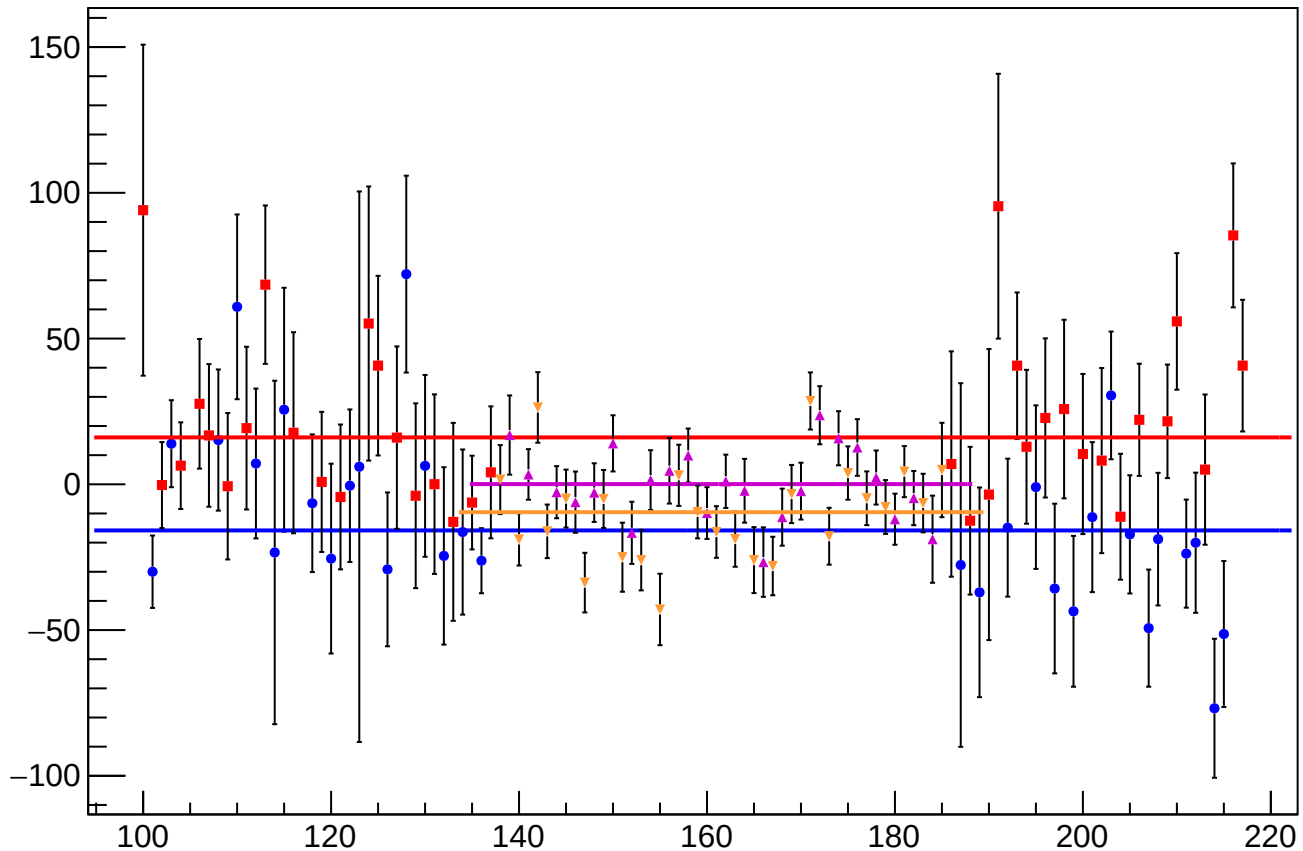
Right: 5820.302+/-0.709 χ^2/NDF : 3902269.8/67

In: 6165.218+/-0.755 χ^2/NDF : 2316912.9/54

Out: 6093.709+/-0.725 χ^2/NDF : 2966033.5/60

All: 6127.997+/-0.523 χ^2/NDF : 5287610.9/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -15.823 ± 4.108 $\chi^2/\text{NDF}: 42.1/31$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 16.095 ± 4.150 $\chi^2/\text{NDF}: 33.7/35$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

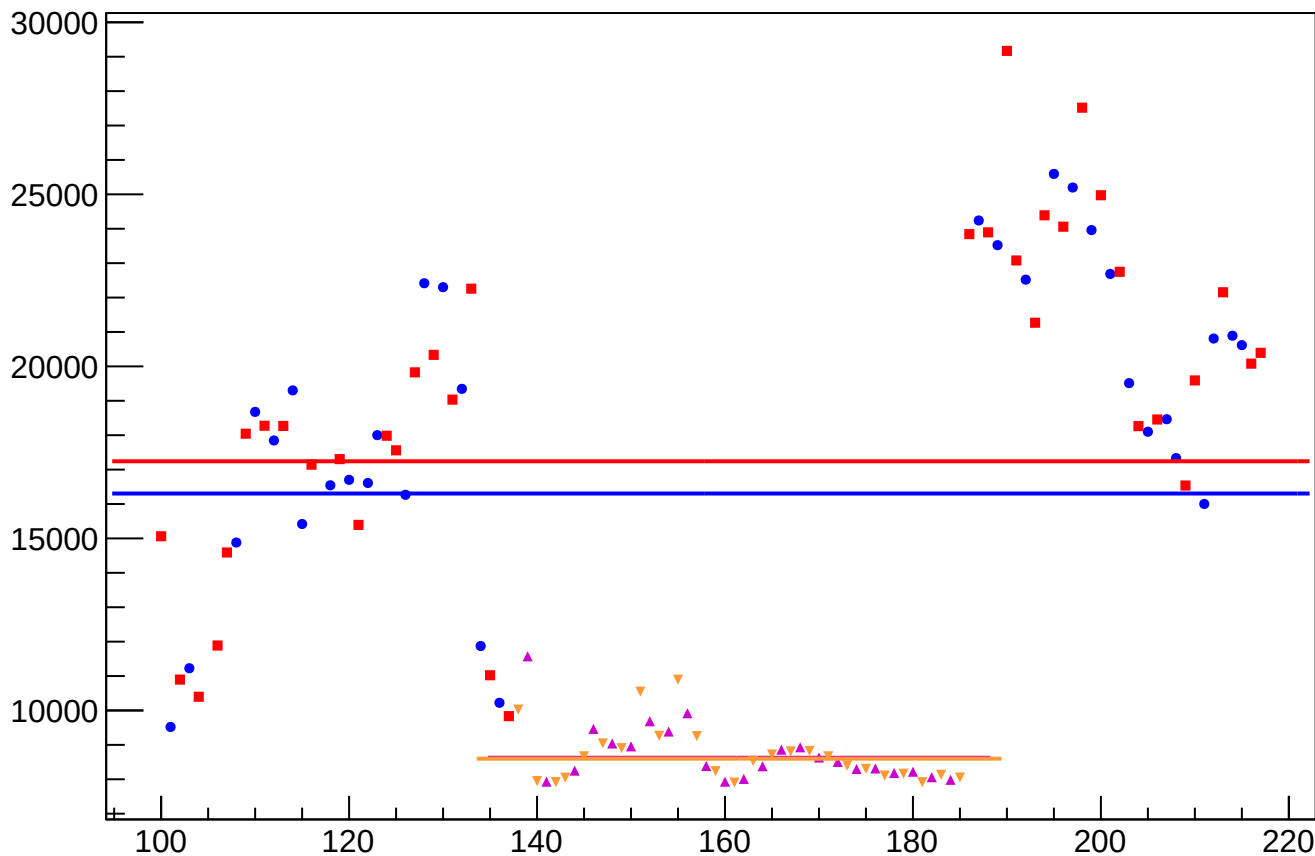
Right: -0.023 ± 2.920 $\chi^2/\text{NDF}: 105.6/67$

In: -3.153 ± 1.851 $\chi^2/\text{NDF}: 83.8/54$

Out: -4.673 ± 1.810 $\chi^2/\text{NDF}: 124.2/60$

All: -3.930 ± 1.294 $\chi^2/\text{NDF}: 208.3/115$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16305.022 $\pm$ 2.905 χ^2 /NDF: 2908504.6/31

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 17242.339 $\pm$ 2.934 χ^2 /NDF: 2835823.4/35

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF:237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

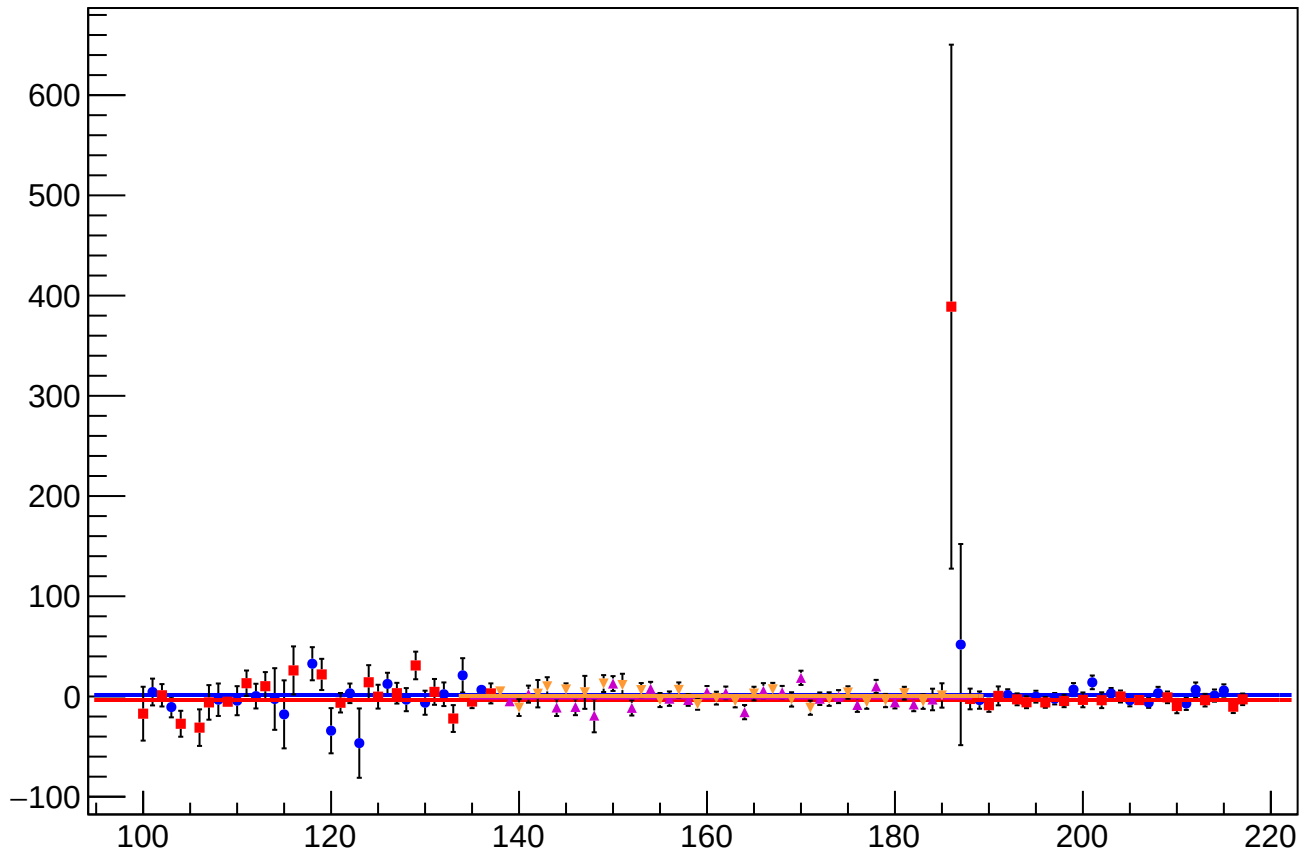
Right: 16769.005 $\pm$ 2.064 χ^2 /NDF: 5795858.7/67

In: 10183.358 $\pm$ 1.309 χ^2 /NDF:8716329.1/54

Out: 10243.874 $\pm$ 1.280 χ^2 /NDF:10110711.9/60

All: 10214.282 $\pm$ 0.915 χ^2 /NDF: 18828133.9

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.507 ± 1.417 $\chi^2/\text{NDF}: 25.2/31$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.500 ± 1.336 $\chi^2/\text{NDF}: 29.7/35$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

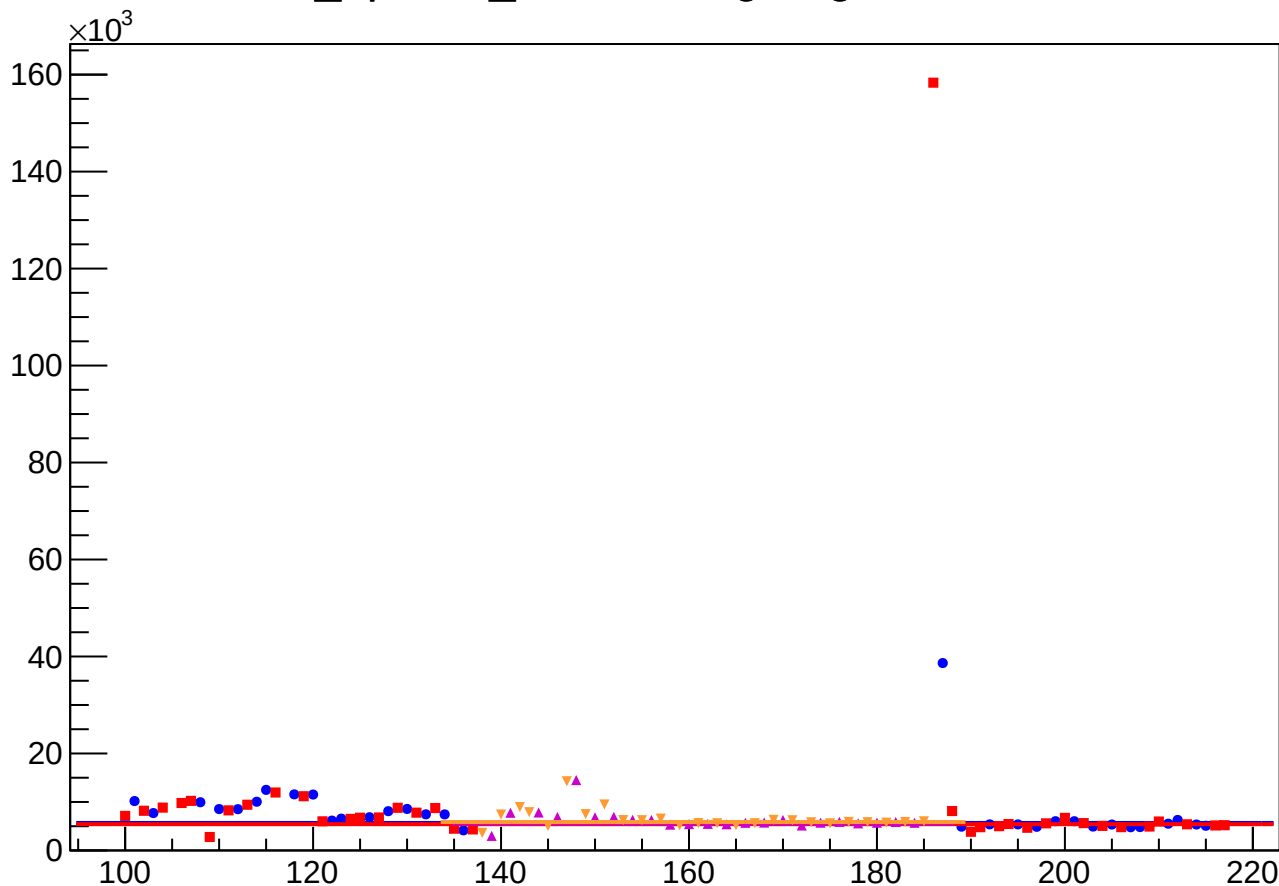
Right: -1.143 ± 0.972 $\chi^2/\text{NDF}: 61.5/67$

In: 0.209 ± 0.994 $\chi^2/\text{NDF}: 59.4/54$

Out: -1.604 ± 0.972 $\chi^2/\text{NDF}: 53.4/60$

All: -0.718 ± 0.695 $\chi^2/\text{NDF}: 114.6/115$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5669.374 $\pm$ 1.002 χ^2/NDF : 2135486.6/31

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5419.399 $\pm$ 0.945 χ^2/NDF : 3468869.3/35

Left In: 5571.330 $\pm$ 0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698 $\pm$ 0.703 χ^2/NDF : 3895130.2/47

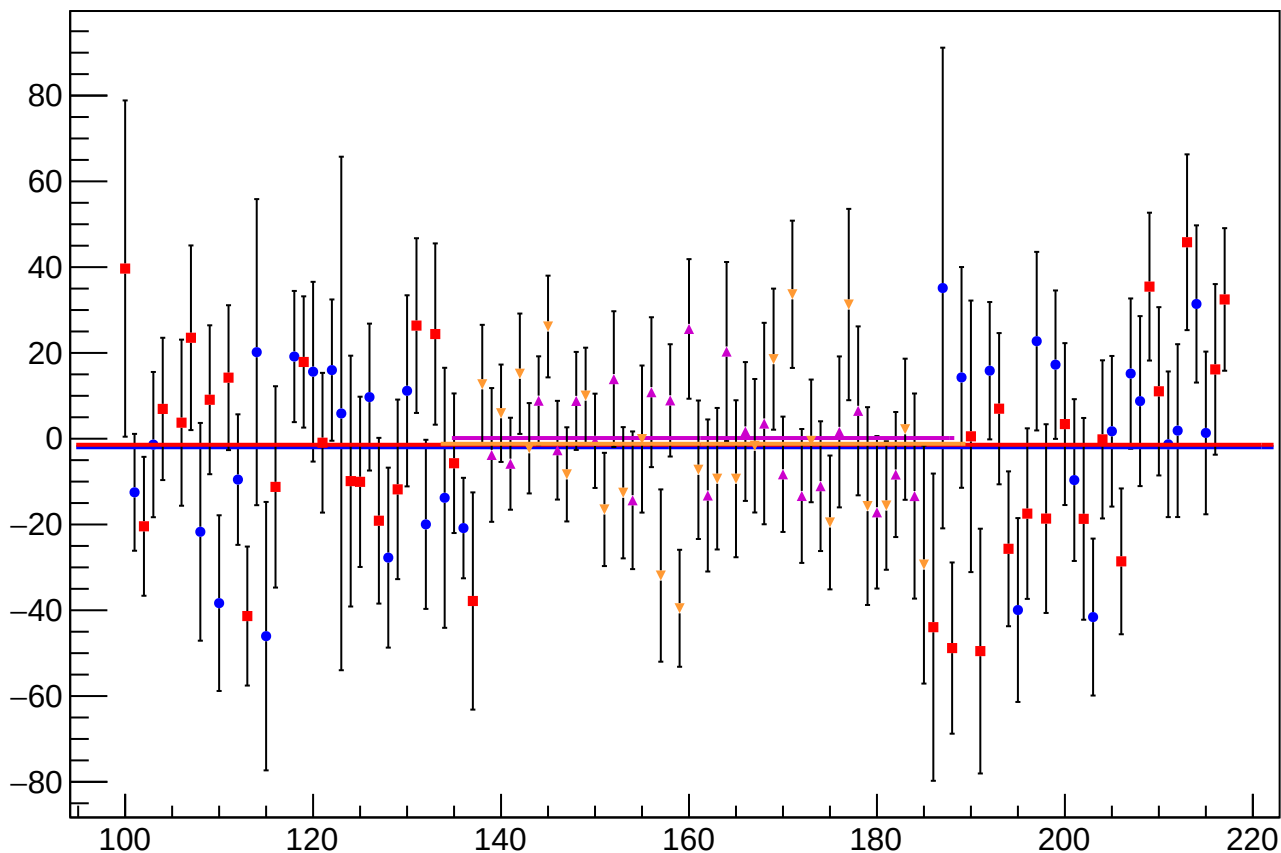
Right: 5537.085 $\pm$ 0.687 χ^2/NDF : 5637299.5/67

In: 5619.607 $\pm$ 0.703 χ^2/NDF : 4303135.7/54

Out: 5627.004 $\pm$ 0.688 χ^2/NDF : 5261490.3/60

All: 5623.388 $\pm$ 0.492 χ^2/NDF : 9564682.6/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.994 ± 3.367 χ^2/NDF : 34.1/31

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -1.412 ± 3.262 χ^2/NDF : 51.6/35

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

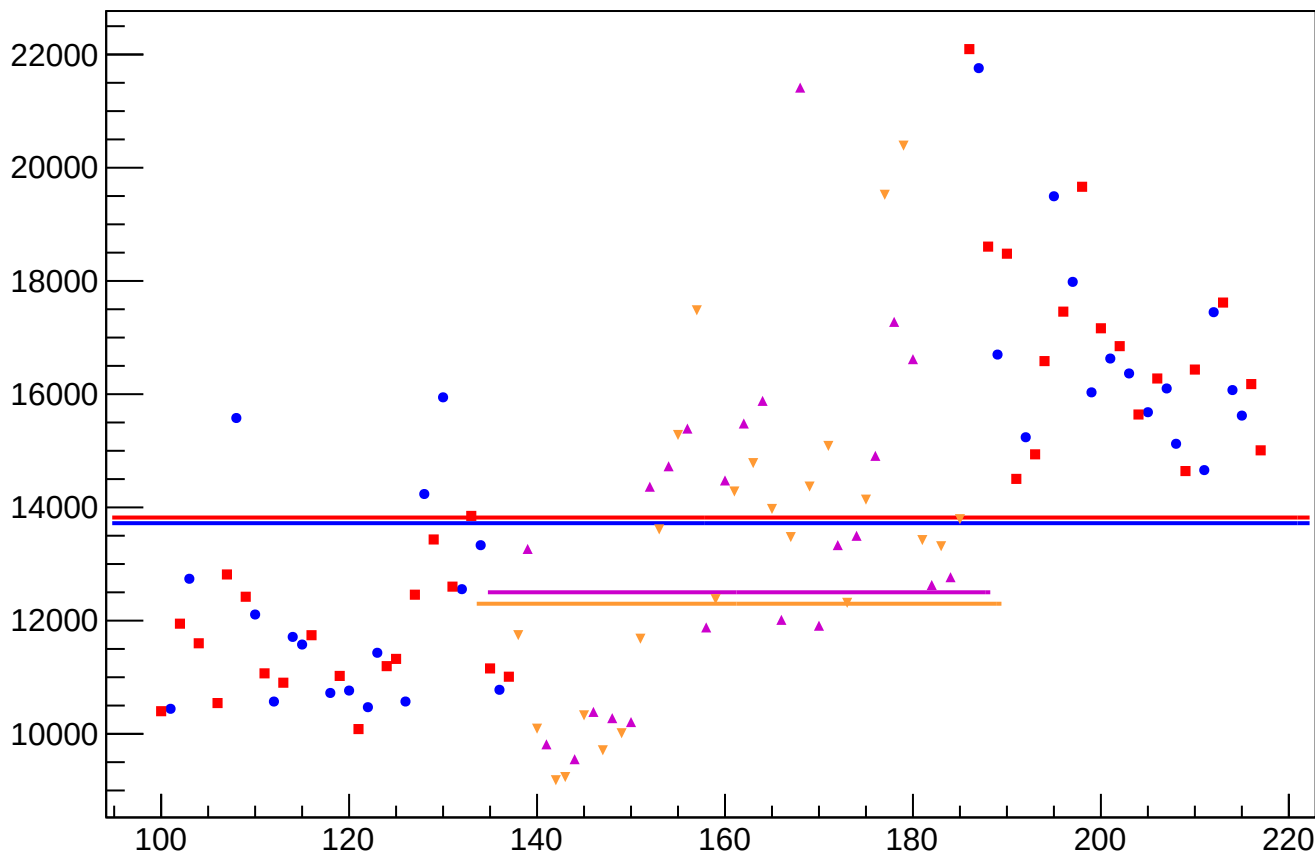
Right: -1.693 ± 2.343 χ^2/NDF : 85.7/67

In: -0.815 ± 2.264 χ^2/NDF : 45.8/54

Out: -1.285 ± 2.183 χ^2/NDF : 85.3/60

All: -1.059 ± 1.572 χ^2/NDF : 131.2/115

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13721.387 $\pm$ 2.381 χ^2/NDF : 1306426.6/31

Left Out: 12298.676 $\pm$ 2.078 χ^2/NDF : 1506026.8/24

Right Out: 13821.283 $\pm$ 2.307 χ^2/NDF : 1435325.2/35

Left In: 12500.795 $\pm$ 2.162 χ^2/NDF : 1357889.1/22

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

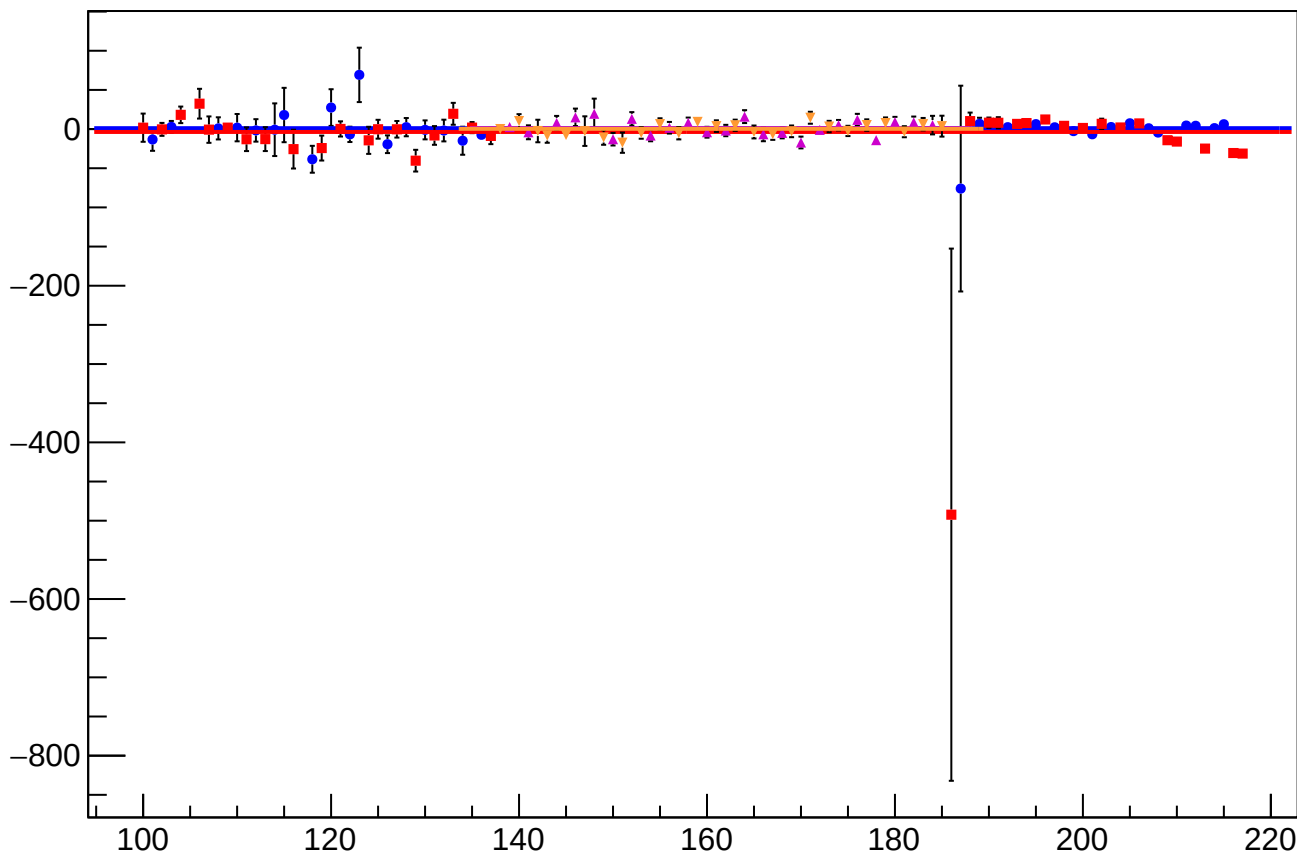
Right: 13772.920 $\pm$ 1.657 χ^2/NDF : 2742659.8/67

In: 13052.485 $\pm$ 1.601 χ^2/NDF : 2808332.1/54

Out: 12980.836 $\pm$ 1.544 χ^2/NDF : 3181871.3/60

All: 13015.366 $\pm$ 1.111 χ^2/NDF : 5991241.3/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.143 ± 1.160 $\chi^2/\text{NDF}: 30.5/31$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -3.670 ± 1.134 $\chi^2/\text{NDF}: 158.8/35$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

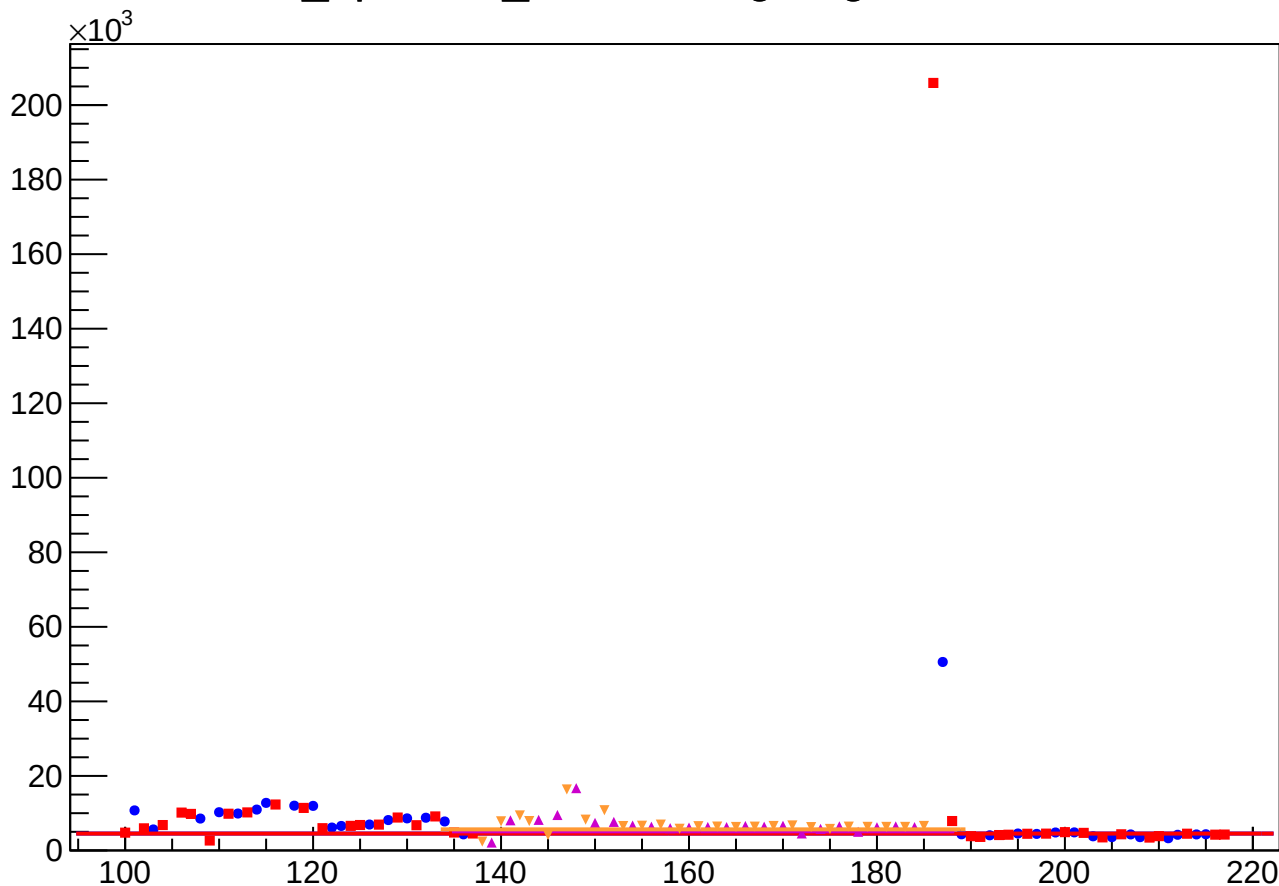
Right: -1.319 ± 0.811 $\chi^2/\text{NDF}: 198.0/67$

In: 1.152 ± 0.886 $\chi^2/\text{NDF}: 64.0/54$

Out: -2.121 ± 0.889 $\chi^2/\text{NDF}: 182.8/60$

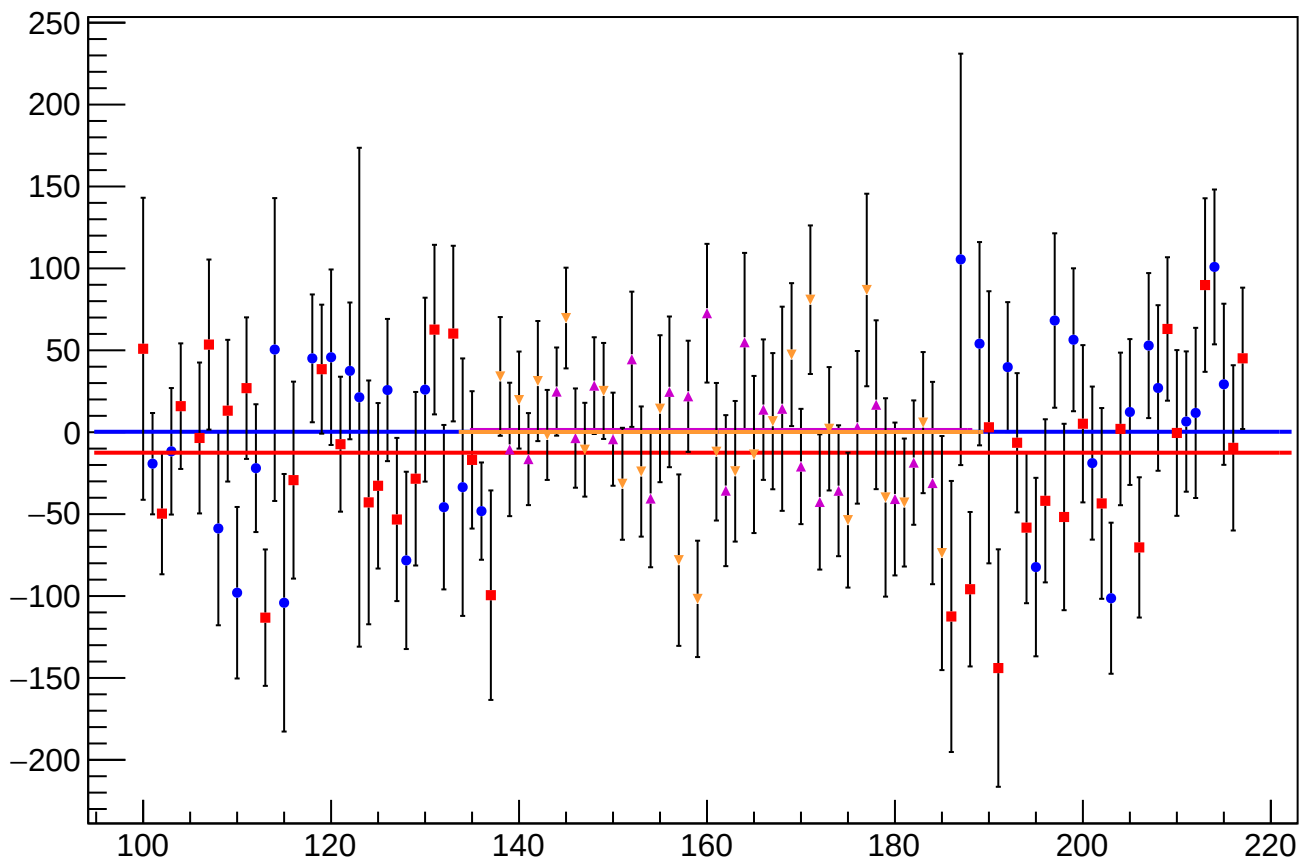
All: -0.478 ± 0.628 $\chi^2/\text{NDF}: 253.6/115$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4537.205+/-0.820	χ^2/NDF : 3444396.9/31	Left: 5387.078+/-0.701	χ^2/NDF : 9762498.7/47
Left Out: 5659.441+/-1.014	χ^2/NDF : 4128583.6/24	Right: 4531.007+/-0.573	χ^2/NDF : 7417243.8/67
Right Out: 4525.089+/-0.802	χ^2/NDF : 3972735.3/35	In: 4787.774+/-0.626	χ^2/NDF : 9163538.1/54
Left In: 5137.772+/-0.970	χ^2/NDF : 5495609.7/22	Out: 4961.690+/-0.629	χ^2/NDF : 8871766.9/60
		All: 4874.393+/-0.444	χ^2/NDF : 18073702.5/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 0.274 $\pm$ 8.423 χ^2/NDF : 36.4/31

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF : 31.3/24

Right Out: -12.506 $\pm$ 8.166 χ^2/NDF : 40.0/35

Left In: 1.374 $\pm$ 7.990 χ^2/NDF : 13.3/22

Left: 0.734 $\pm$ 5.538 χ^2/NDF : 44.6/47

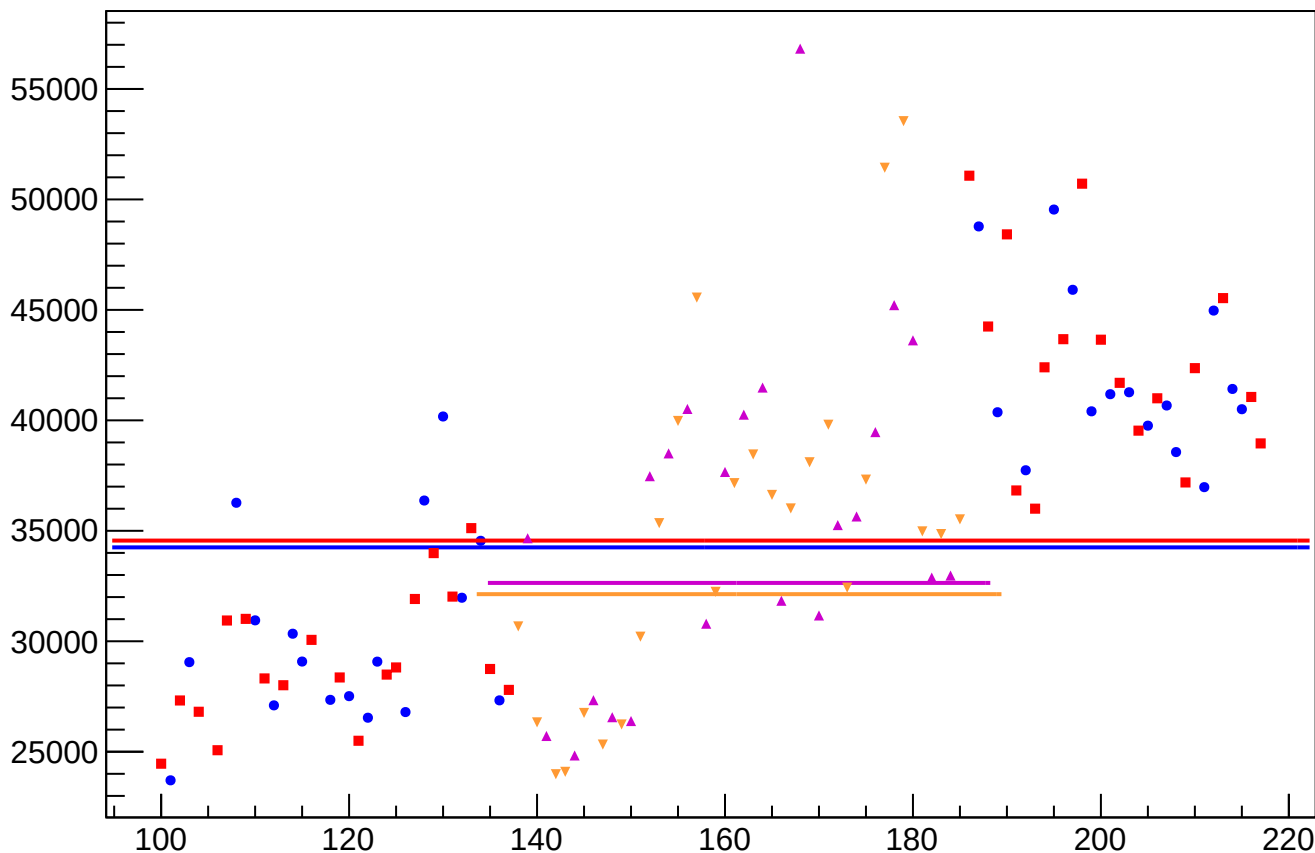
Right: -6.314 $\pm$ 5.863 χ^2/NDF : 77.6/67

In: 0.853 $\pm$ 5.797 χ^2/NDF : 49.7/54

Out: -5.797 $\pm$ 5.596 χ^2/NDF : 72.6/60

All: -2.589 $\pm$ 4.026 χ^2/NDF : 122.9/115

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34250.133+/-5.956

χ^2/NDF : 1424823.5/31

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 34557.625+/-5.774

χ^2/NDF : 1524604.0/35

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

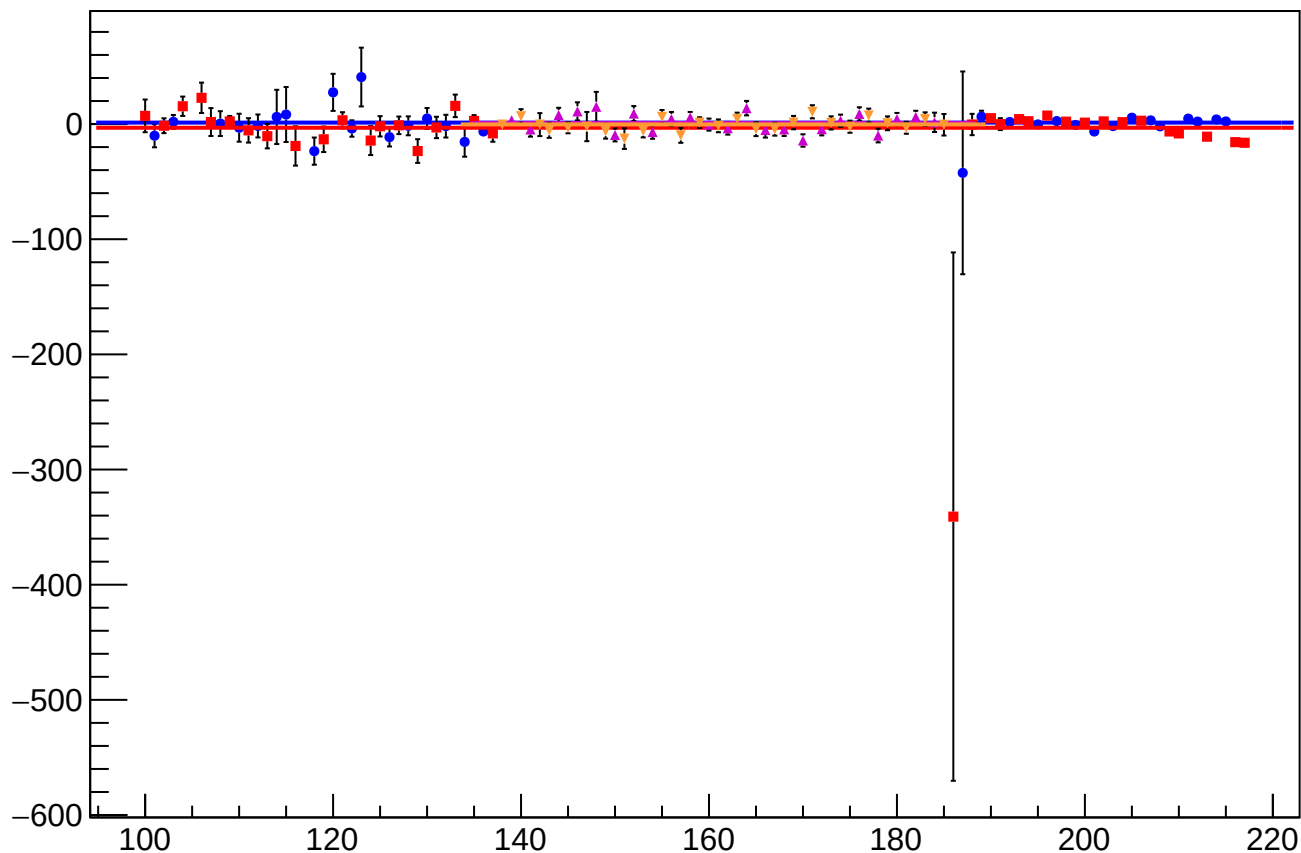
Right: 34408.652+/-4.146 χ^2/NDF : 2950801.5/67

In: 33403.223+/-4.099 χ^2/NDF : 2865395.9/54

Out: 33271.202+/-3.957 χ^2/NDF : 3158264.1/60

All: 33334.880+/-2.847 χ^2/NDF : 6024197.0/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.267 ± 0.674 $\chi^2/\text{NDF}: 40.2/31$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -3.204 ± 0.684 $\chi^2/\text{NDF}: 138.2/35$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

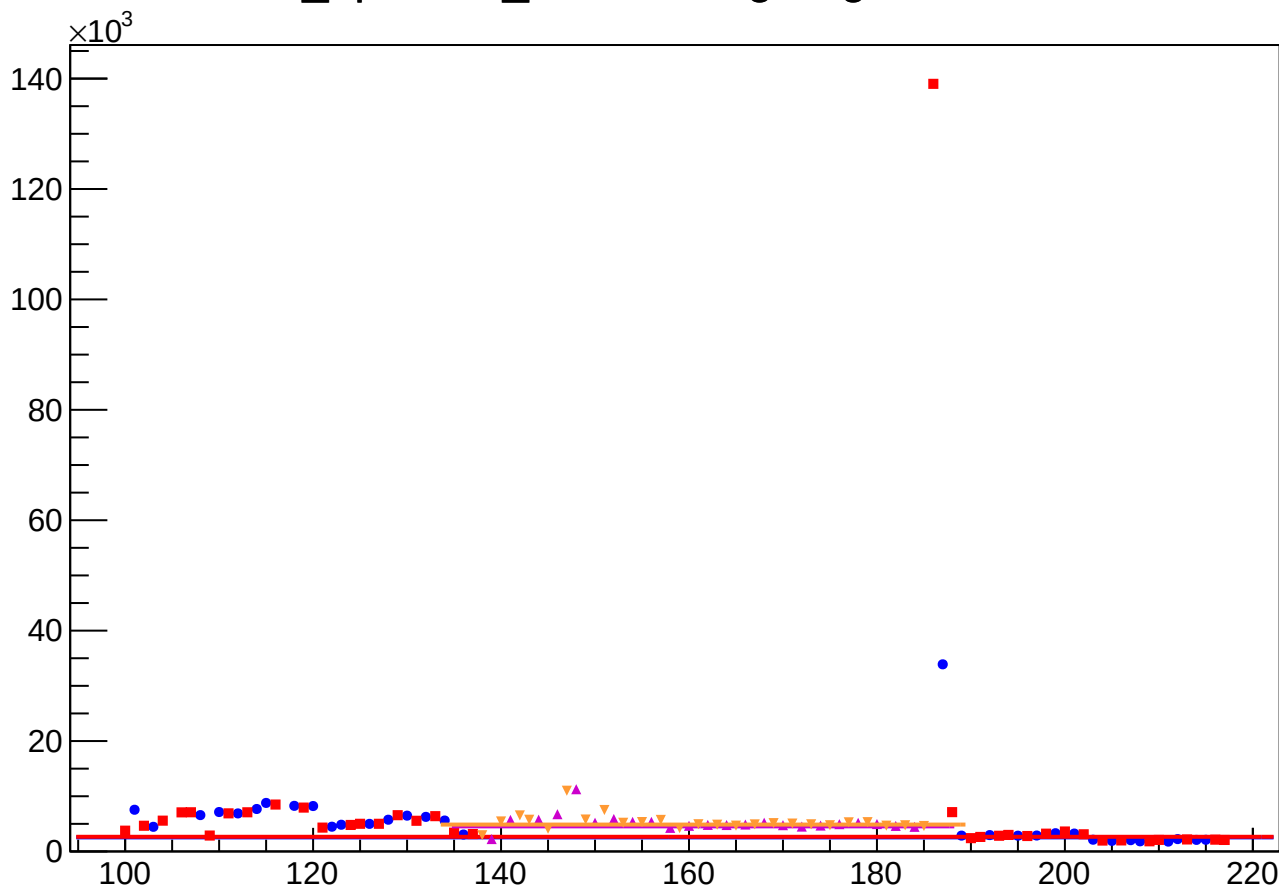
Right: -0.935 ± 0.480 $\chi^2/\text{NDF}: 200.1/67$

In: 1.174 ± 0.581 $\chi^2/\text{NDF}: 76.5/54$

Out: -2.468 ± 0.591 $\chi^2/\text{NDF}: 160.4/60$

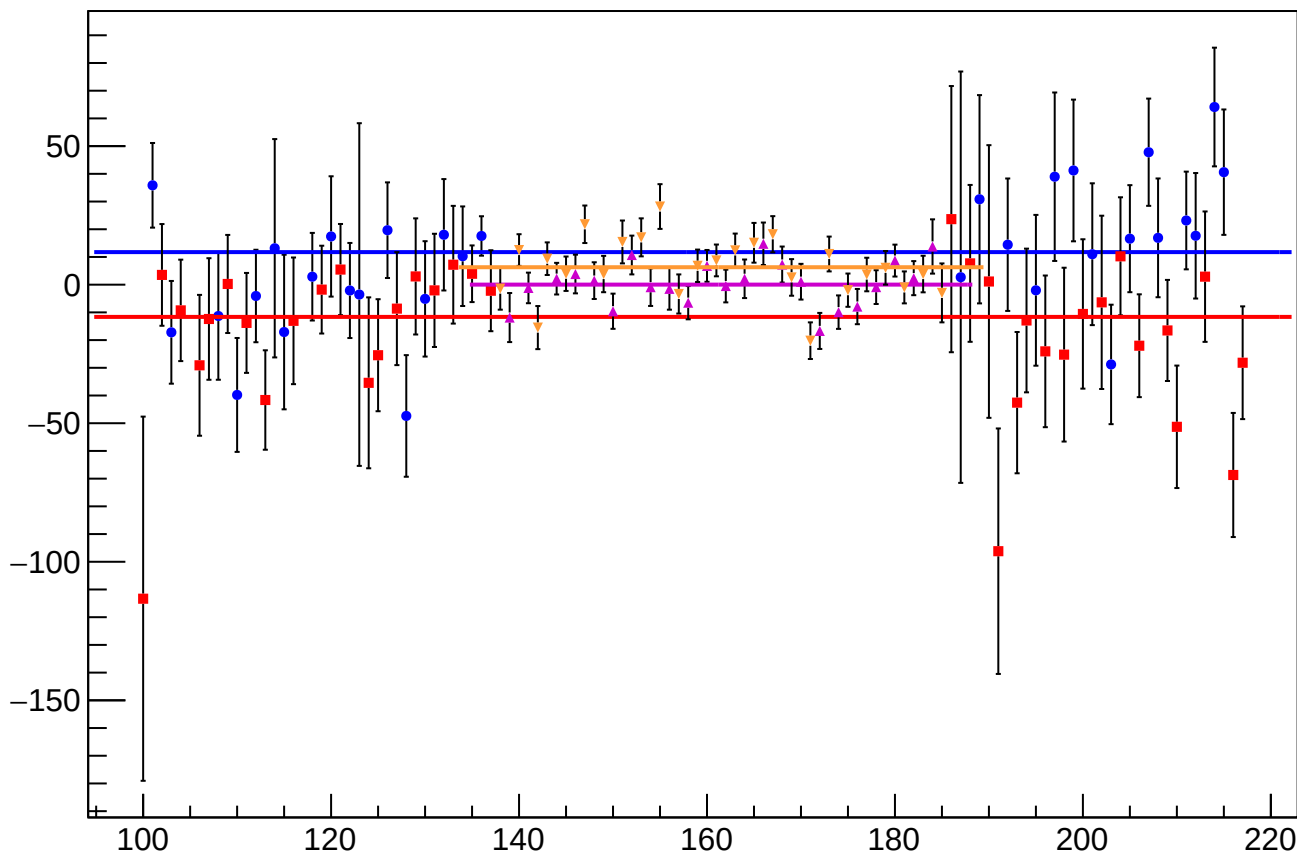
All: -0.615 ± 0.414 $\chi^2/\text{NDF}: 256.2/115$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2548.121+/-0.477	χ^2/NDF : 5504705.8/31	Left: 4702.320+/-0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567+/-0.829	χ^2/NDF : 1511151.0/24	Right: 2602.069+/-0.340	χ^2/NDF : 11602193.1/67
Right Out: 2657.633+/-0.484	χ^2/NDF : 6071498.1/35	In: 3064.007+/-0.411	χ^2/NDF : 12669270.4/54
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 3219.962+/-0.418	χ^2/NDF : 12892773.4/60
		All: 3140.619+/-0.293	χ^2/NDF : 25632921.6/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 11.751 ± 3.392 $\chi^2/\text{NDF}: 42.1/31$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -11.630 ± 3.480 $\chi^2/\text{NDF}: 32.4/35$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

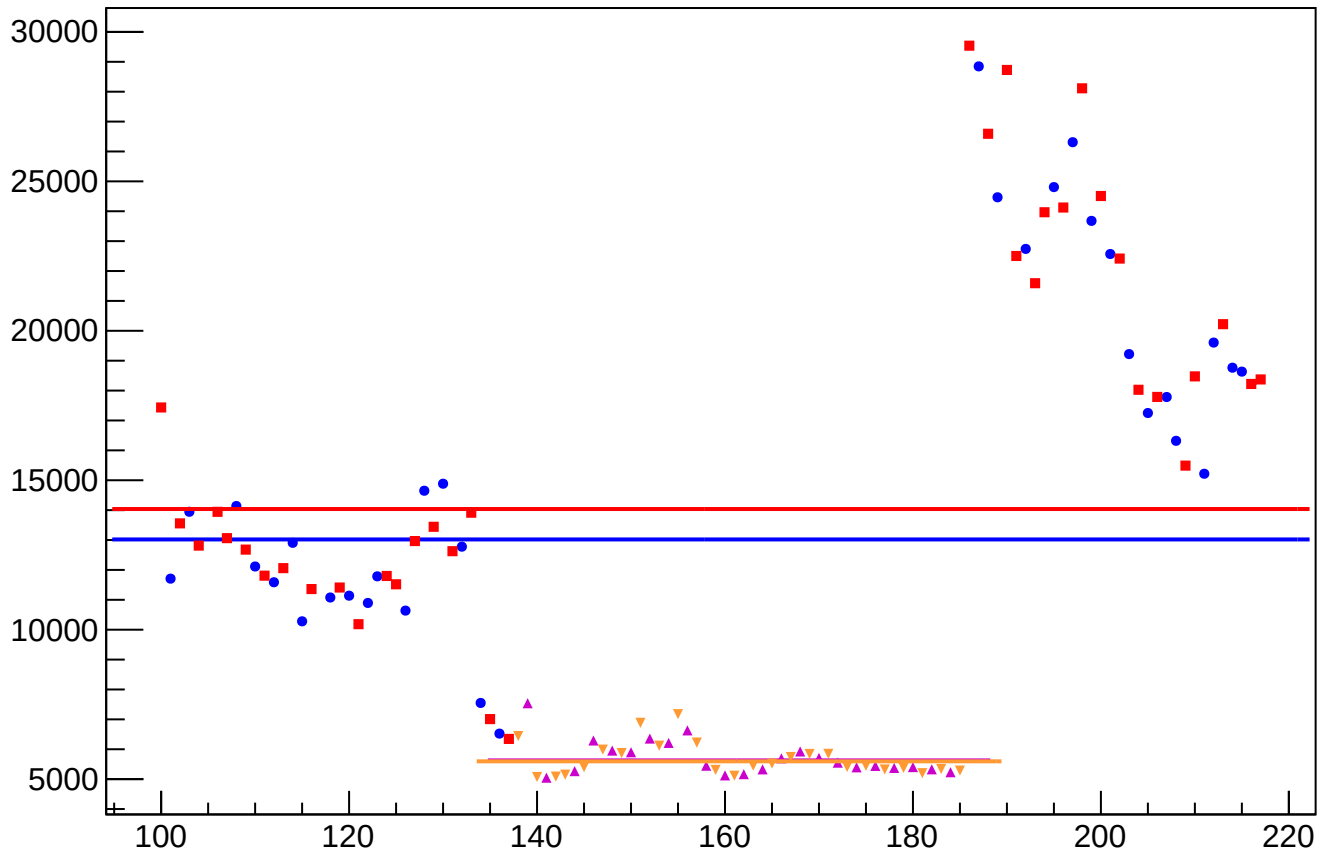
Right: 0.360 ± 2.429 $\chi^2/\text{NDF}: 97.6/67$

In: 1.631 ± 1.257 $\chi^2/\text{NDF}: 82.3/54$

Out: 4.070 ± 1.226 $\chi^2/\text{NDF}: 112.2/60$

All: 2.881 ± 0.878 $\chi^2/\text{NDF}: 196.4/115$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13019.624 $\pm$ 2.398 χ^2 /NDF: 4946013.6/31

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF:283998.1/24

Right Out: 14037.607 $\pm$ 2.461 χ^2 /NDF: 4822727.3/35

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF:279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

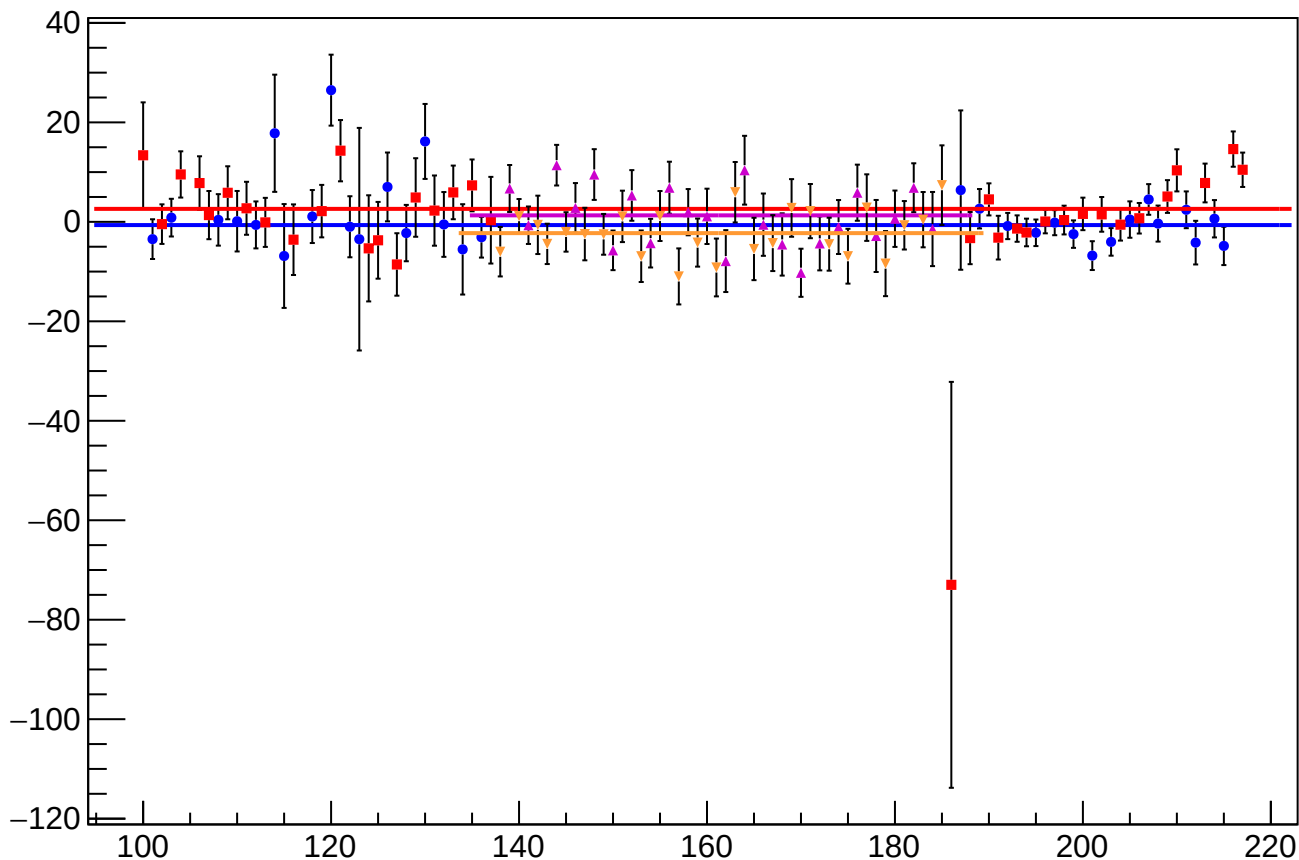
Right: 13515.559 $\pm$ 1.717 χ^2 /NDF: 9856518.9/67

In: 6642.309 $\pm$ 0.889 χ^2 /NDF:13422061.8/54

Out: 6644.457 $\pm$ 0.867 χ^2 /NDF:15414612.1/60

All: 6643.410 $\pm$ 0.621 χ^2 /NDF: 28836676.9/1

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.648 ± 0.723 χ^2/NDF : 38.2/31

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 2.610 ± 0.695 χ^2/NDF : 53.2/35

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

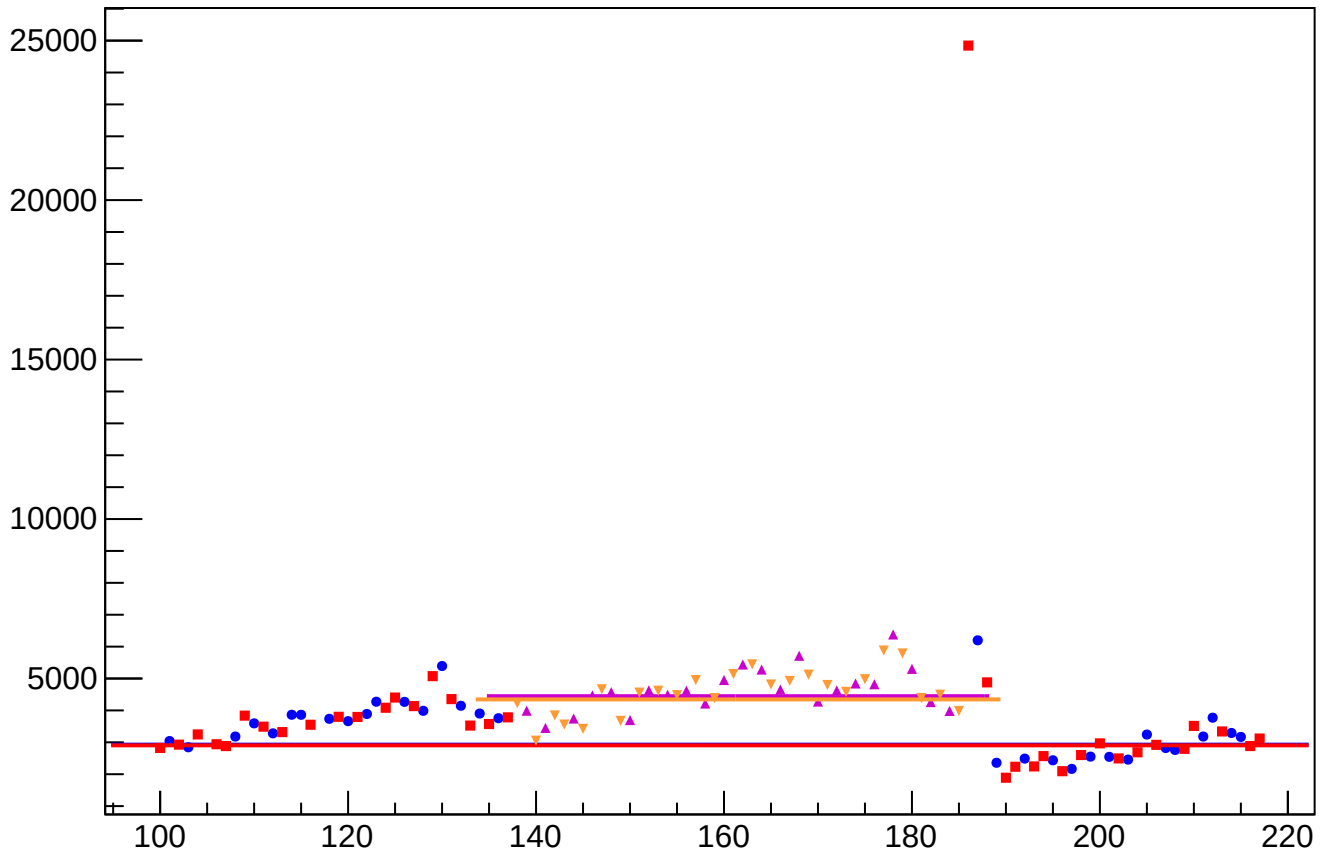
Right: 1.044 ± 0.501 χ^2/NDF : 102.0/67

In: -0.042 ± 0.600 χ^2/NDF : 71.3/54

Out: 1.082 ± 0.576 χ^2/NDF : 84.0/60

All: 0.543 ± 0.416 χ^2/NDF : 157.1/115

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2926.693 ± 0.511 $\chi^2/\text{NDF}: 1419685.4/31$

Left Out: 4345.381 ± 0.728 $\chi^2/\text{NDF}: 1000636.1/24$

Right Out: 2905.055 ± 0.492 $\chi^2/\text{NDF}: 2346385.4/35$

Left In: 4446.181 ± 0.762 $\chi^2/\text{NDF}: 702797.6/22$

Left: 4393.504 ± 0.526 $\chi^2/\text{NDF}: 1712588.4/47$

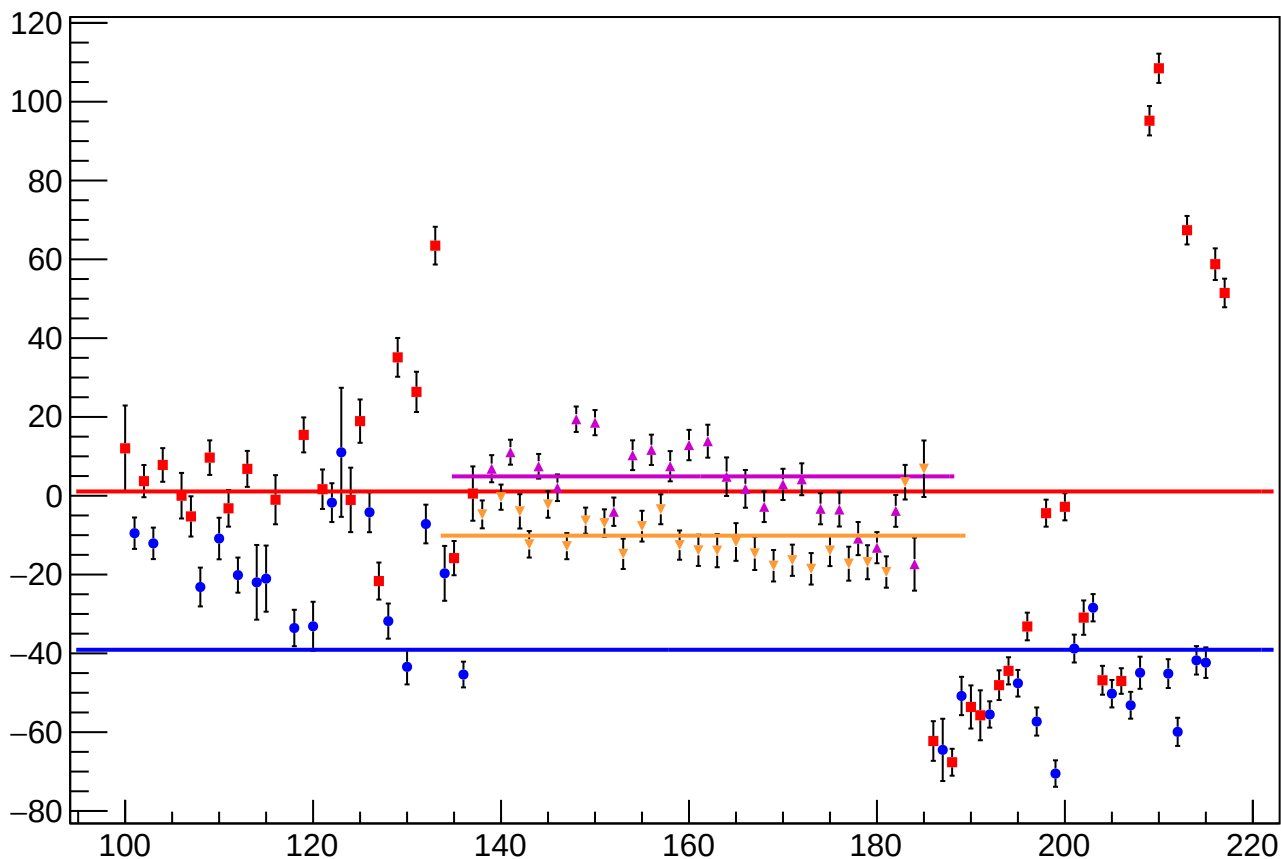
Right: 2915.456 ± 0.354 $\chi^2/\text{NDF}: 3767002.4/67$

In: 3398.281 ± 0.424 $\chi^2/\text{NDF}: 4867673.0/54$

Out: 3356.119 ± 0.407 $\chi^2/\text{NDF}: 6036093.0/60$

All: 3376.342 ± 0.294 $\chi^2/\text{NDF}: 10908904.2/111$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -39.089 ± 0.749 χ^2/NDF : 576.9/31

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: 1.090 ± 0.723 χ^2/NDF : 4155.9/35

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

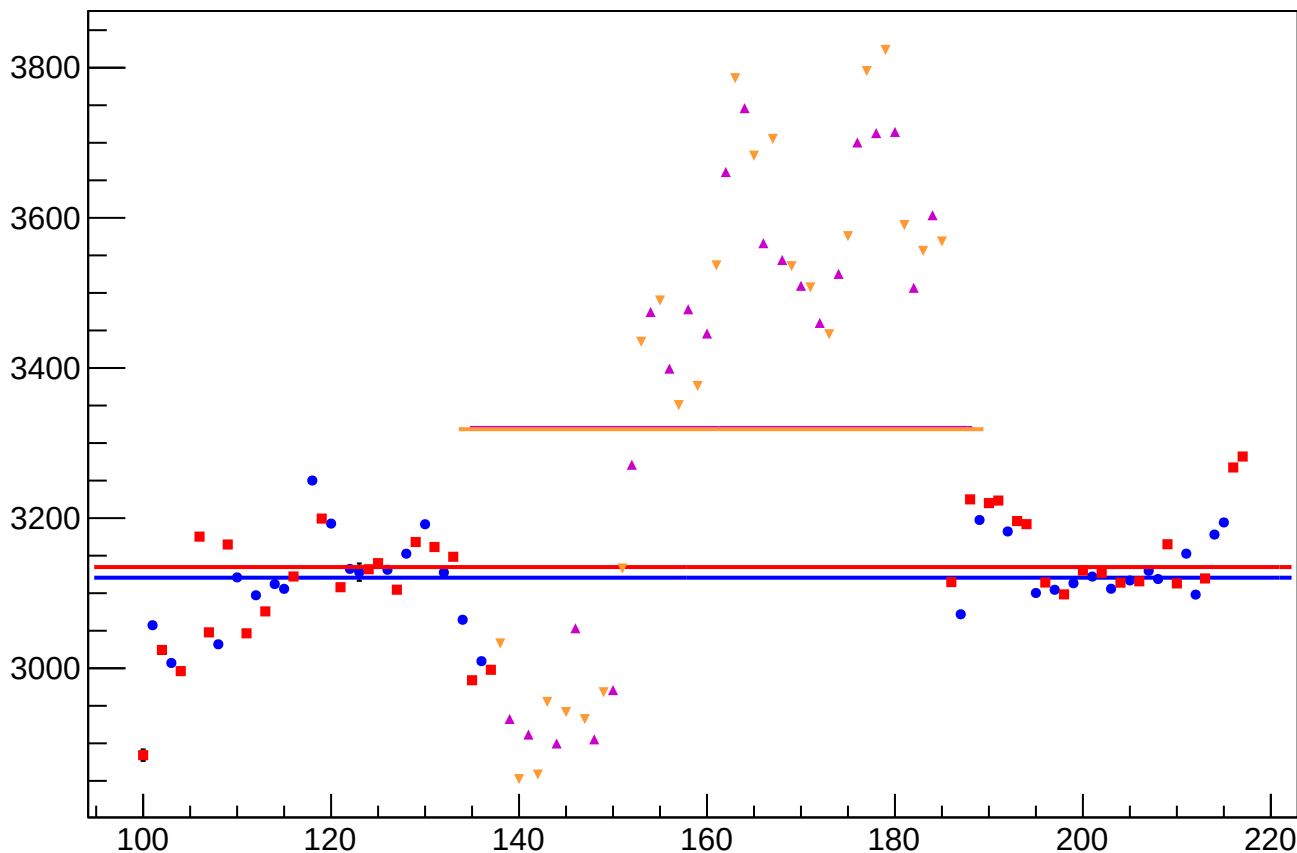
Right: -18.283 ± 0.520 χ^2/NDF : 6223.0/67

In: -18.458 ± 0.546 χ^2/NDF : 2323.1/54

Out: -4.123 ± 0.529 χ^2/NDF : 4335.8/60

All: -11.062 ± 0.380 χ^2/NDF : 7014.7/115

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3120.667+/-0.530 χ^2/NDF : 10644.2/31

Left Out: 3318.506+/-0.548 χ^2/NDF : 337694.2/24

Right Out: 3134.830+/-0.511 χ^2/NDF : 19918.6/35

Left In: 3320.170+/-0.564 χ^2/NDF : 287634.9/22

Left: 3319.315+/-0.393 χ^2/NDF : 625333.6/47

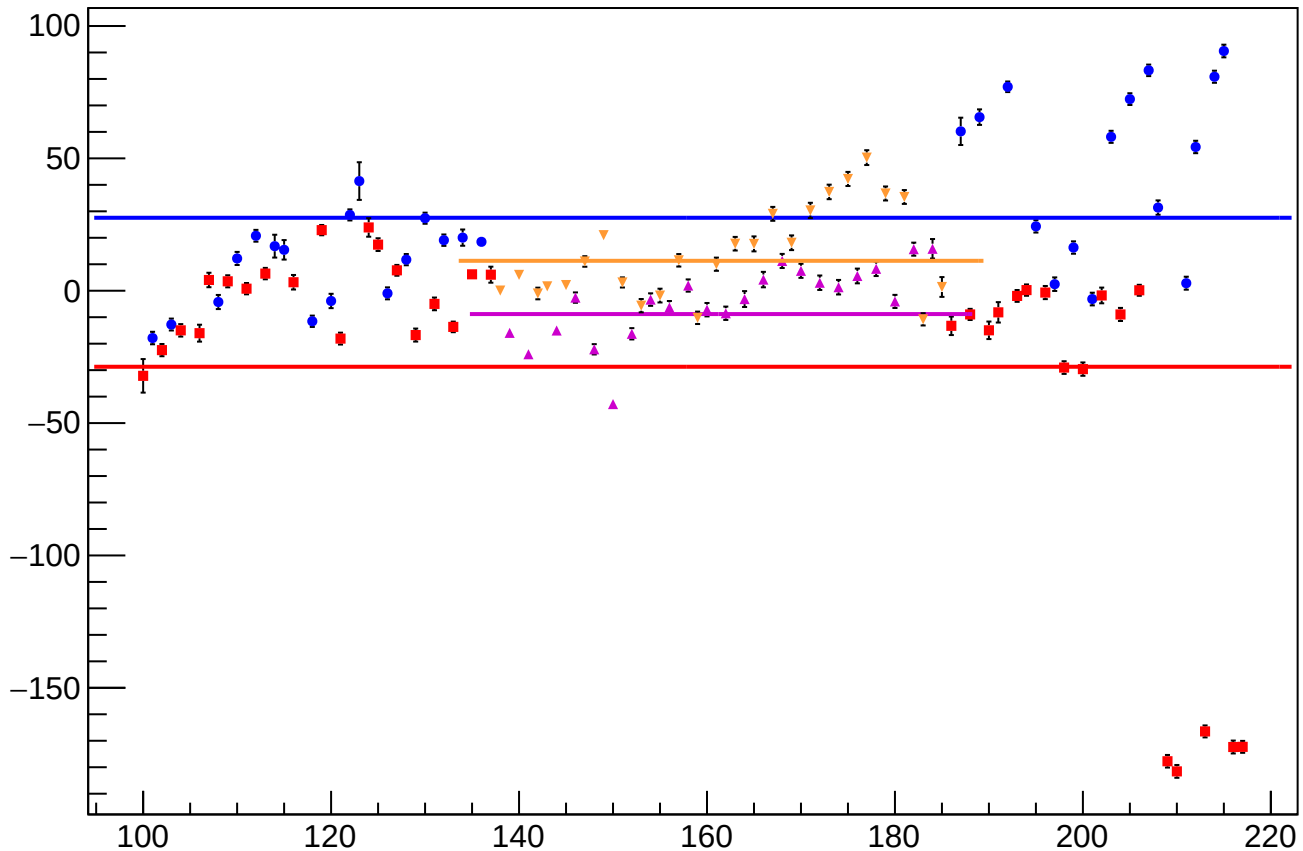
Right: 3128.001+/-0.368 χ^2/NDF : 30933.1/67

In: 3214.213+/-0.386 χ^2/NDF : 364814.3/54

Out: 3220.212+/-0.374 χ^2/NDF : 417659.9/60

All: 3217.308+/-0.269 χ^2/NDF : 782598.8/115

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 27.564 ± 0.419 χ^2/NDF : 5463.9/31

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -28.719 ± 0.404 χ^2/NDF : 23385.2/35

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

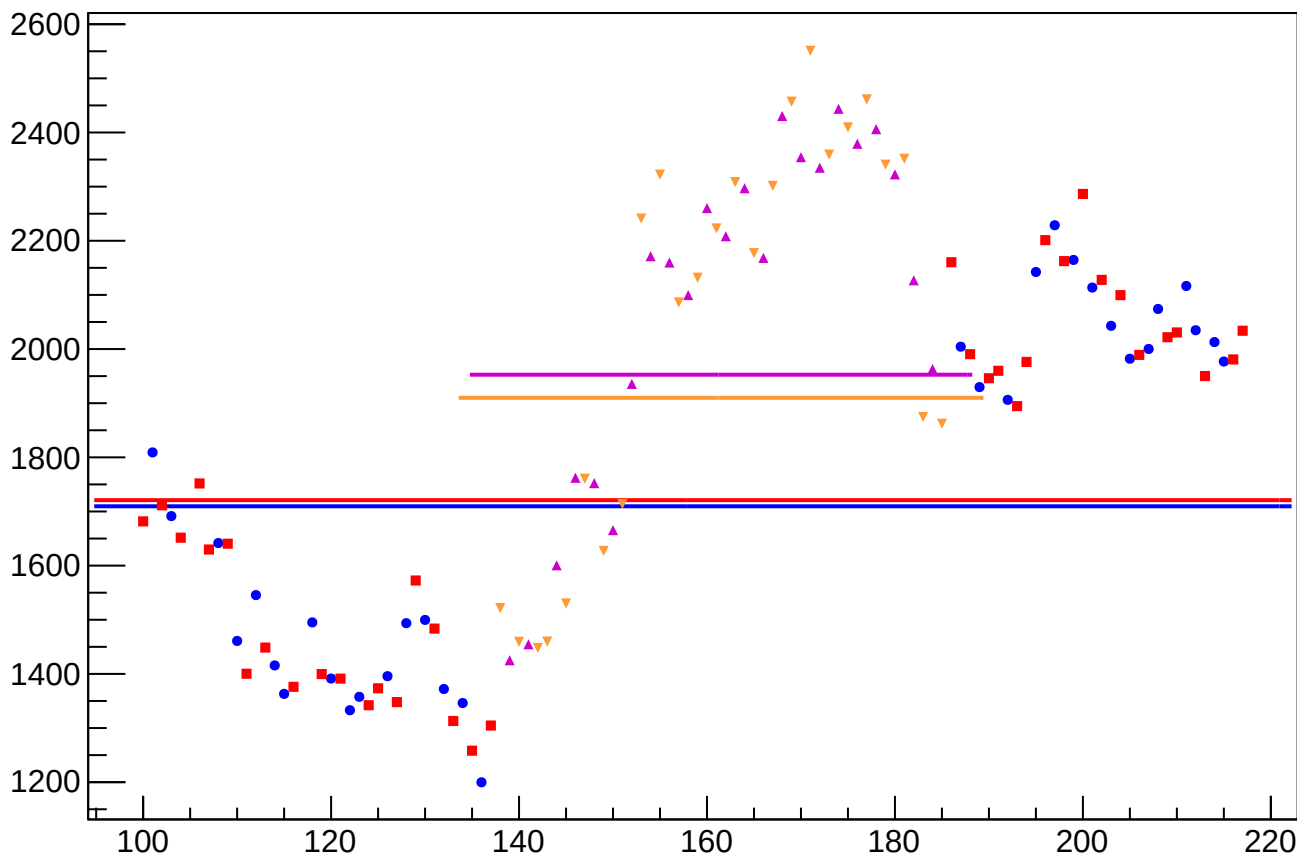
Right: -1.569 ± 0.291 χ^2/NDF : 38207.8/67

In: 11.676 ± 0.314 χ^2/NDF : 9704.9/54

Out: -11.021 ± 0.302 χ^2/NDF : 28867.6/60

All: -0.128 ± 0.218 χ^2/NDF : 41287.3/115

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1709.584 $\pm$ 0.296 χ^2 /NDF: 1257917.4/31

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1720.892 $\pm$ 0.286 χ^2 /NDF: 1248239.0/35

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

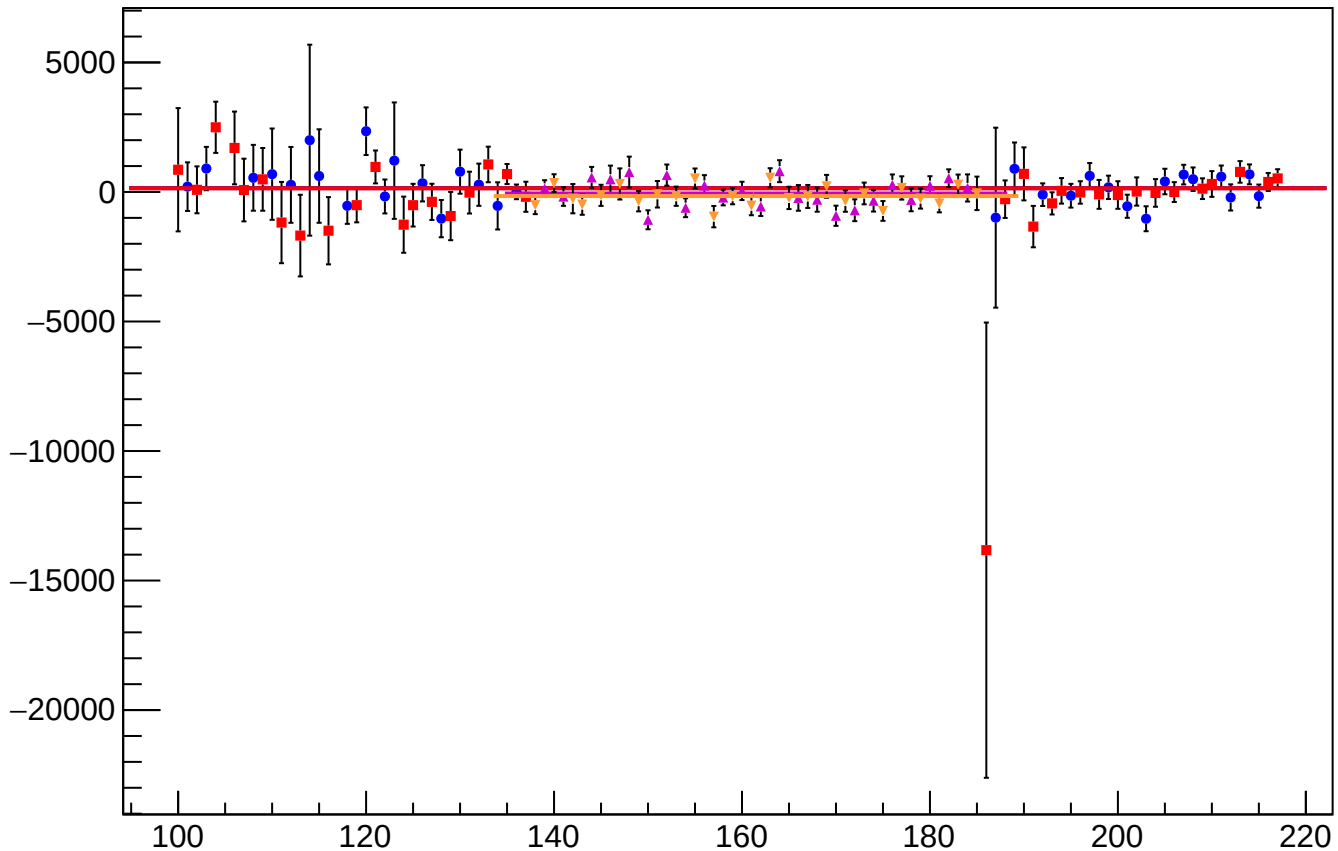
Right: 1715.437 $\pm$ 0.206 χ^2 /NDF: 2506912.0/67

In: 1815.732 $\pm$ 0.222 χ^2 /NDF:2617756.8/54

Out: 1804.494 $\pm$ 0.213 χ^2 /NDF:2841329.1/60

All: 1809.888 $\pm$ 0.154 χ^2 /NDF: 5460416.8/11

asym_sam1_mean vs Slug, Sign Corrected



Right In: 147.187+/-101.493 χ^2/NDF : 30.1/31

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 142.997+/-99.312 χ^2/NDF : 35.2/35

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

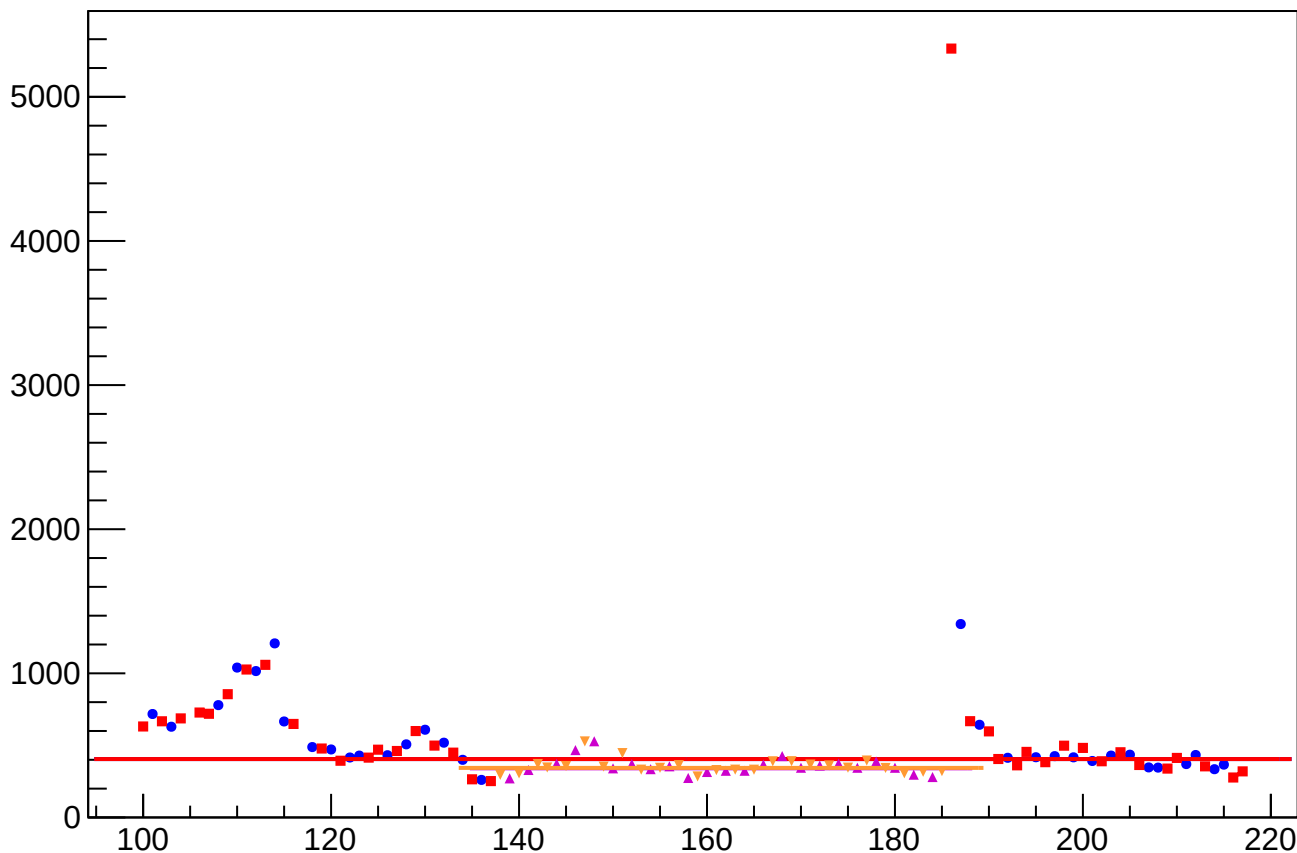
Right: 145.046+/-70.982 χ^2/NDF : 65.3/67

In: 23.175+/-64.057 χ^2/NDF :71.1/54

Out: -37.666+/-62.674 χ^2/NDF :62.7/60

All: -7.909+/-44.798 χ^2/NDF : 134.3/115

asym_sam1_rms vs Slug, Sign Corrected



Right In: 405.079+/-0.072 χ^2/NDF : 2498783.2/31

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 405.226+/-0.070 χ^2/NDF : 3790714.4/35

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

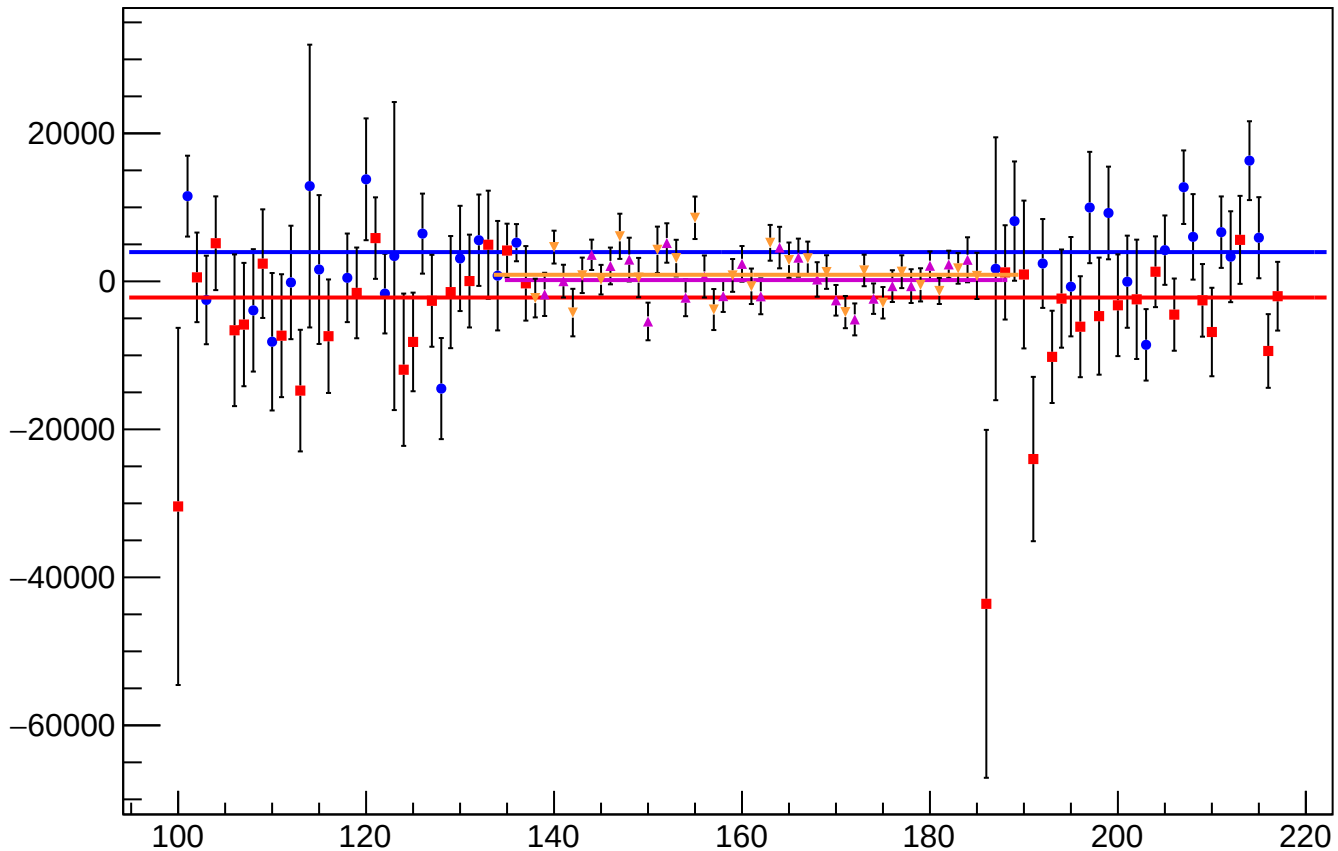
Right: 405.154+/-0.050 χ^2/NDF : 6289499.7/67

In: 366.452+/-0.045 χ^2/NDF : 3704971.0/54

Out: 368.268+/-0.044 χ^2/NDF : 4790443.9/60

All: 367.380+/-0.032 χ^2/NDF : 8496236.6/115

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3954.723 $\pm$ 1048.636 χ^2 /NDF: 35.5/31

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2183.081 $\pm$ 1069.473 χ^2 /NDF: 29.7/35

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

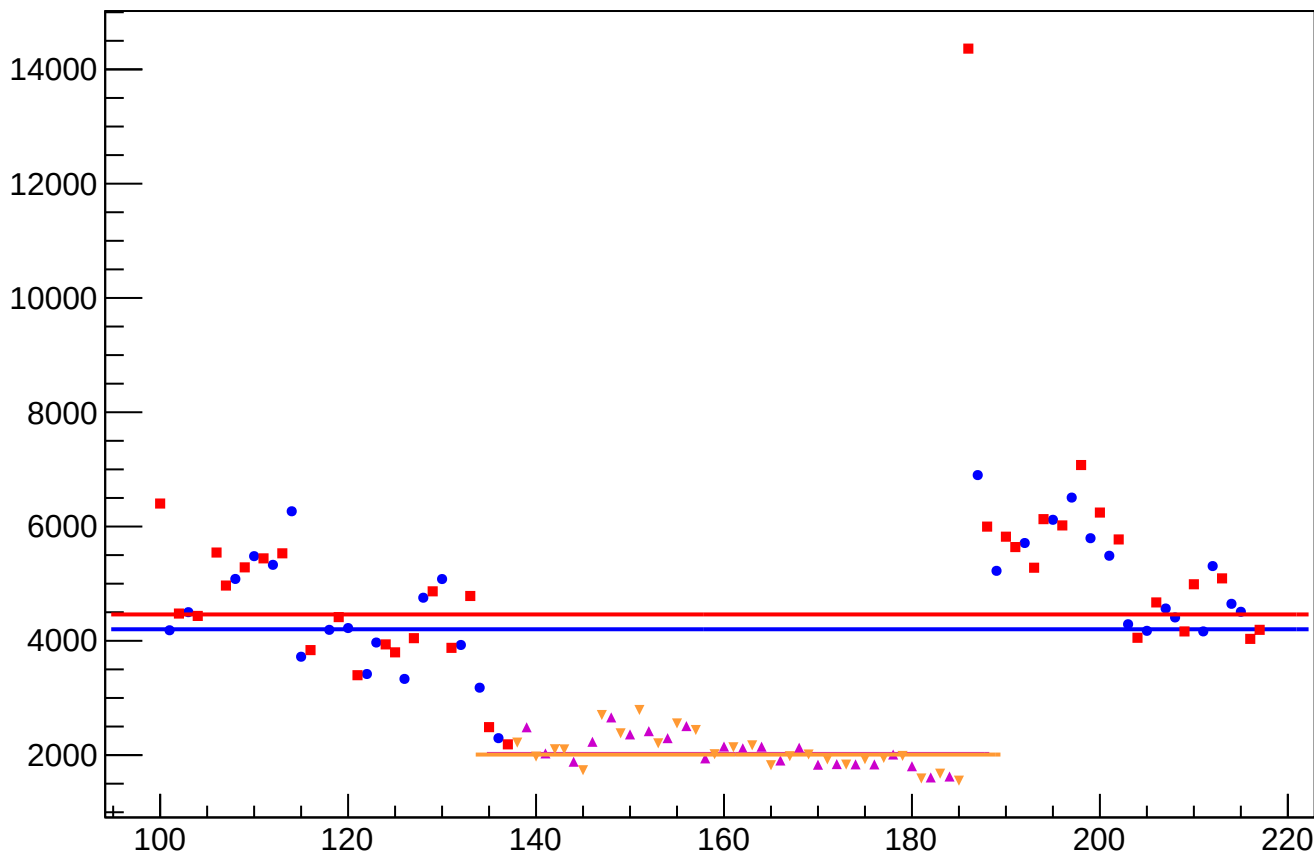
Right: 946.197 $\pm$ 748.756 χ^2 /NDF: 82.0/67

In: 845.852 $\pm$ 442.488 χ^2 /NDF:79.4/54

Out: 387.096 $\pm$ 432.781 χ^2 /NDF:74.5/60

All: 611.387 $\pm$ 309.397 χ^2 /NDF: 154.5/115

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4202.171+/-0.741 χ^2/NDF : 2336764.2/31

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4461.627+/-0.756 χ^2/NDF : 2563570.1/35

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

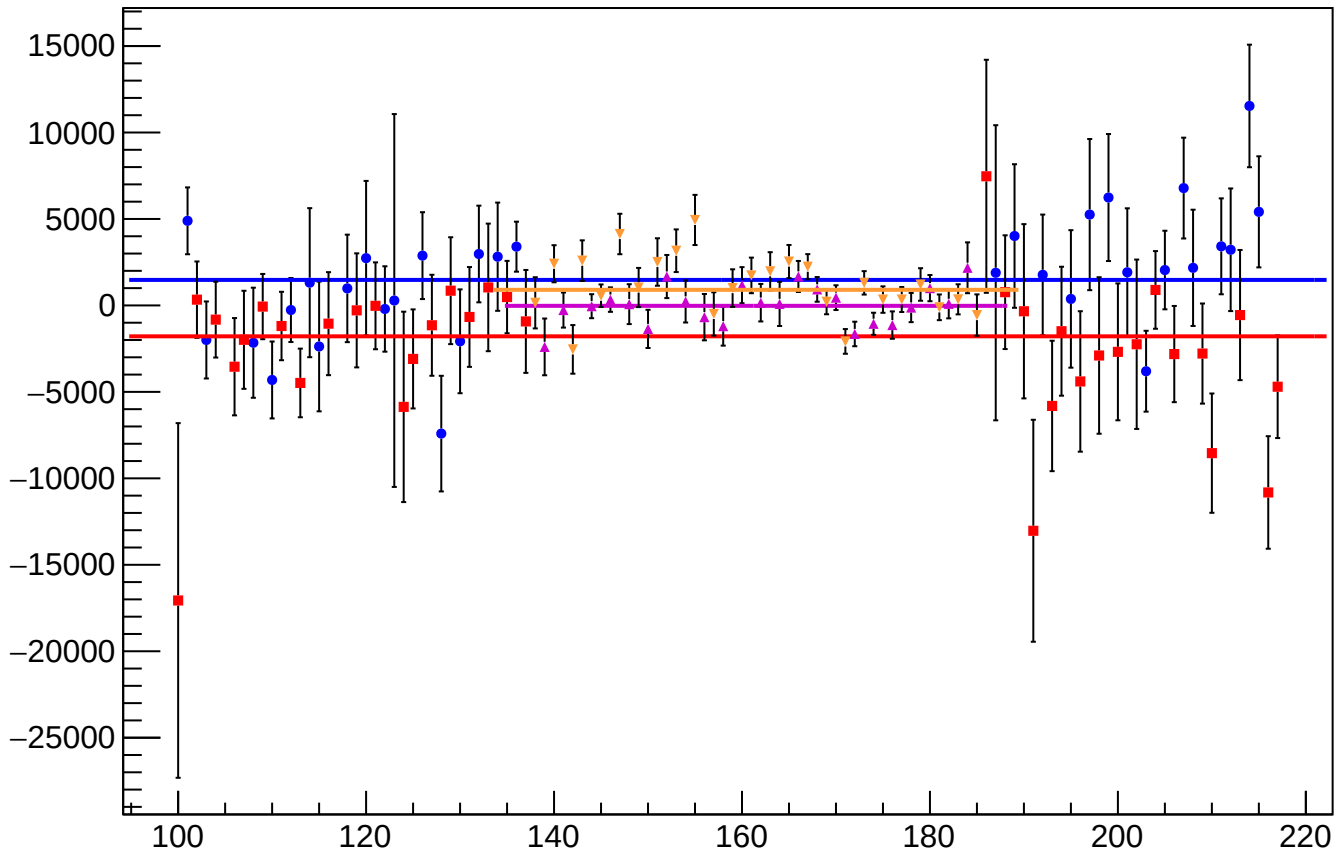
Right: 4329.347+/-0.529 χ^2/NDF : 4960347.9/67

In: 2408.846+/-0.313 χ^2/NDF : 10026570.4/54

Out: 2411.160+/-0.306 χ^2/NDF : 12065046.3/60

All: 2410.028+/-0.219 χ^2/NDF : 22091644.7/111

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1475.629+/-502.119 χ^2/NDF : 48.9/31

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1787.114+/-494.922 χ^2/NDF : 32.4/35

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

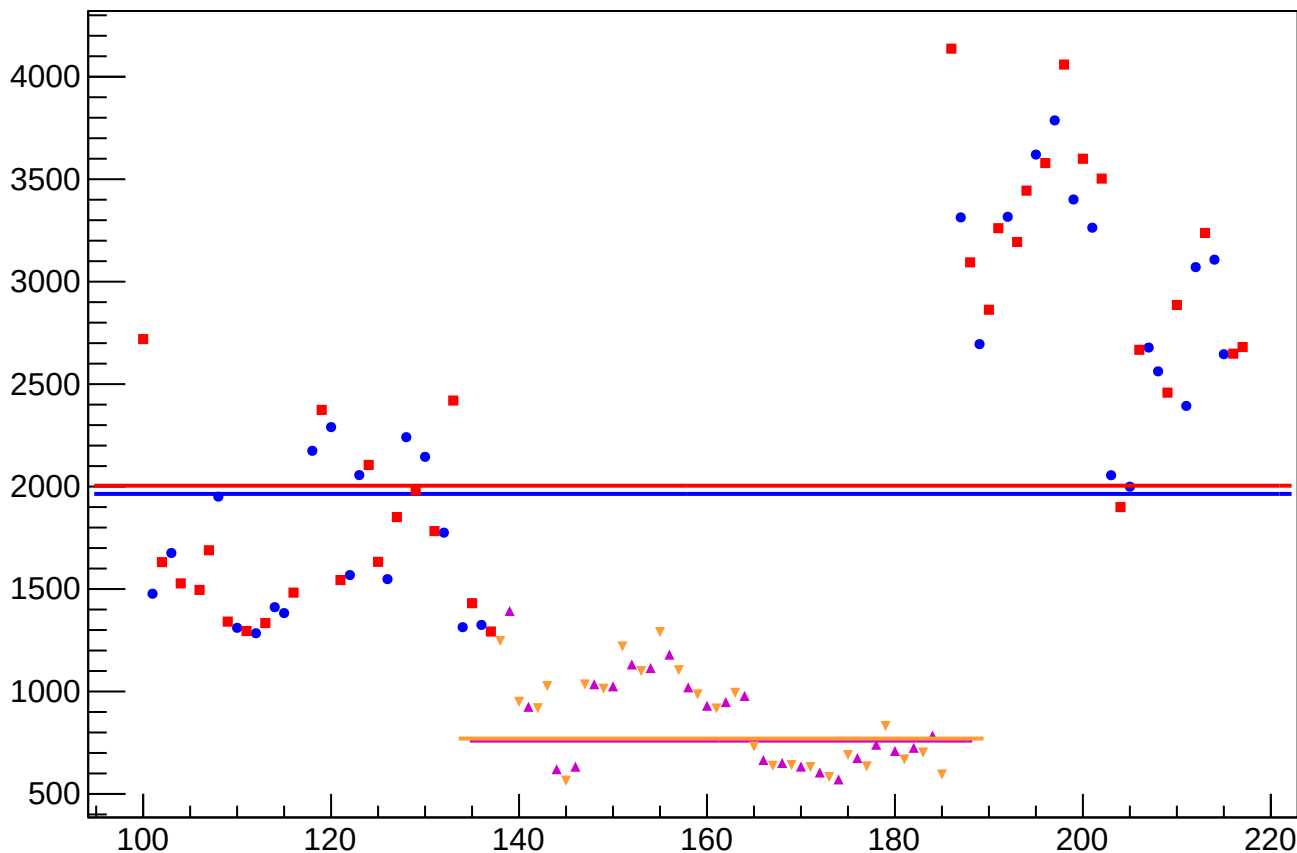
Right: -179.291+/-352.480 χ^2/NDF : 102.7/67

In: 161.027+/-176.176 χ^2/NDF : 84.9/54

Out: 569.749+/-173.987 χ^2/NDF : 121.8/60

All: 367.942+/-123.794 χ^2/NDF : 209.5/115

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1964.290 $\pm$ 0.355 χ^2 /NDF: 3706868.1/31

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 2004.330 $\pm$ 0.350 χ^2 /NDF: 4450828.0/35

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF: 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

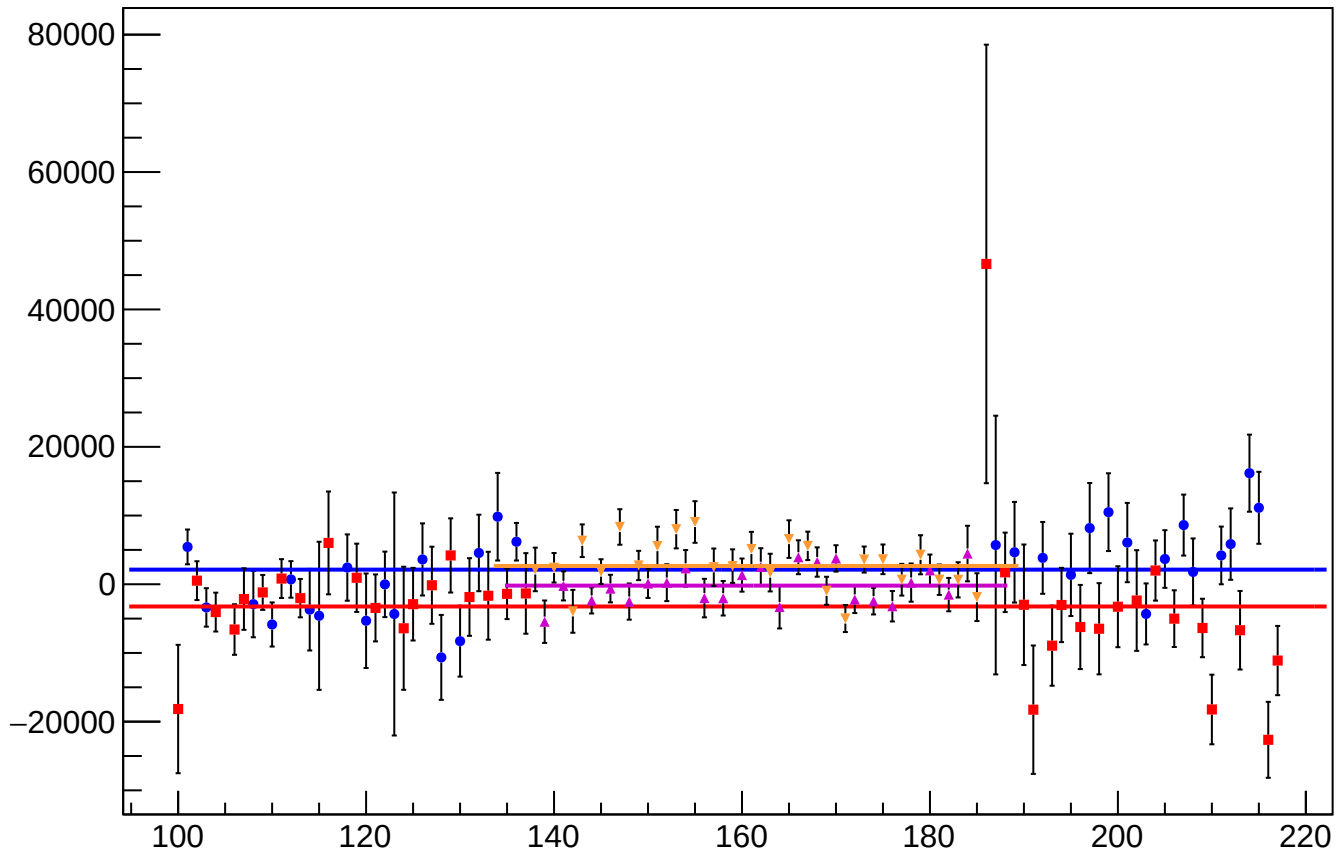
Right: 1984.599 $\pm$ 0.249 χ^2 /NDF: 8164146.7/67

In: 908.564 $\pm$ 0.125 χ^2 /NDF: 15776214.0/54

Out: 922.824 $\pm$ 0.123 χ^2 /NDF: 17635404.9/60

All: 915.783 $\pm$ 0.088 χ^2 /NDF: 33418251.8/13

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2127.486+/-806.761 χ^2/NDF : 46.4/31

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -3236.226+/-769.195 χ^2/NDF : 46.5/35

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

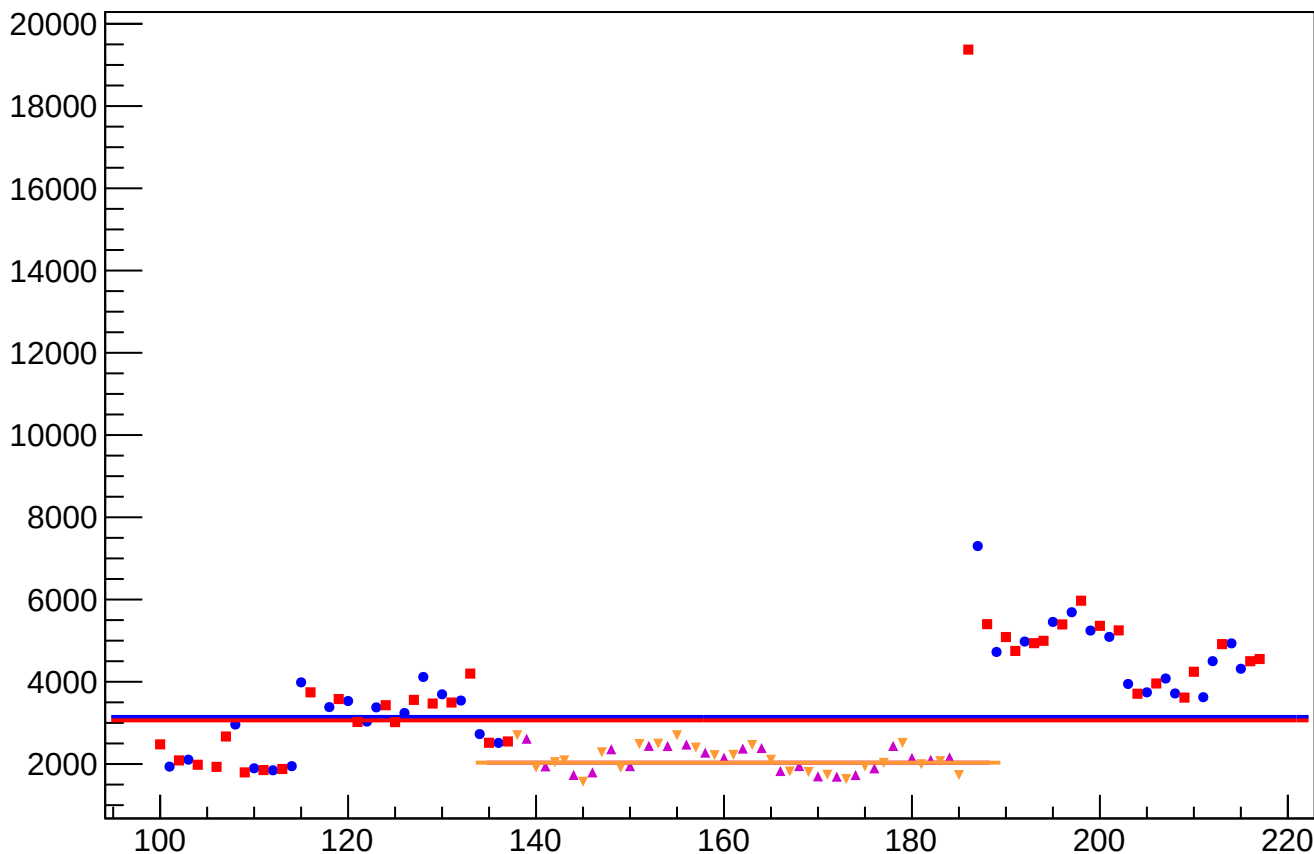
Right: -682.151+/-556.710 χ^2/NDF : 116.0/67

In: 431.571+/-420.102 χ^2/NDF : 78.2/54

Out: 1012.605+/-407.078 χ^2/NDF : 138.1/60

All: 731.234+/-292.344 χ^2/NDF : 217.3/115

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3145.166+/-0.570 χ^2/NDF : 4042256.6/31

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 3061.391+/-0.544 χ^2/NDF : 5606768.3/35

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

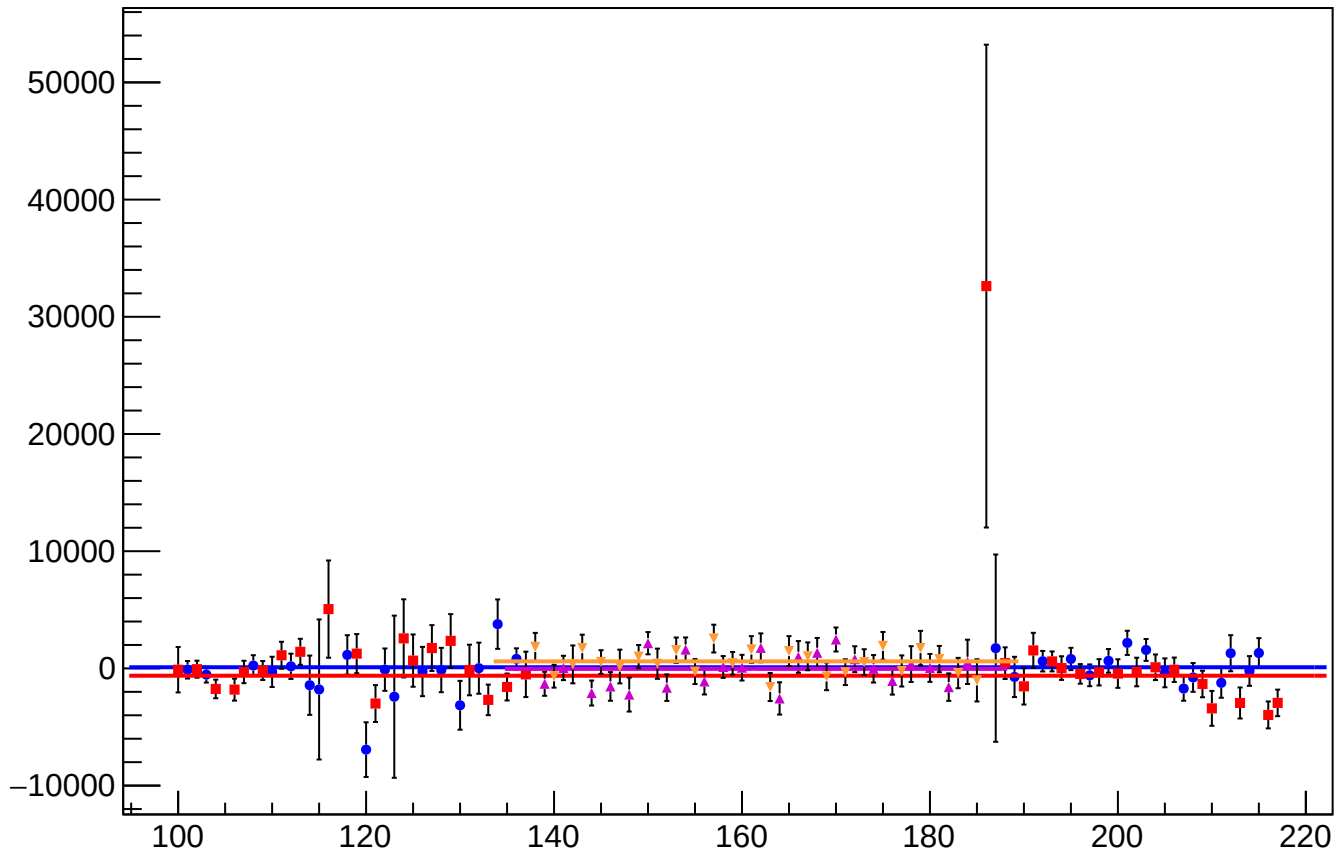
Right: 3101.283+/-0.394 χ^2/NDF : 9660321.4/67

In: 2334.319+/-0.297 χ^2/NDF : 7466955.2/54

Out: 2321.275+/-0.288 χ^2/NDF : 9002841.9/60

All: 2327.591+/-0.207 χ^2/NDF : 16470791.6/111

asym_sam5_mean vs Slug, Sign Corrected



Right In: 98.180 ± 214.803 χ^2/NDF : 32.2/31

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -624.352 ± 200.318 χ^2/NDF : 52.1/35

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

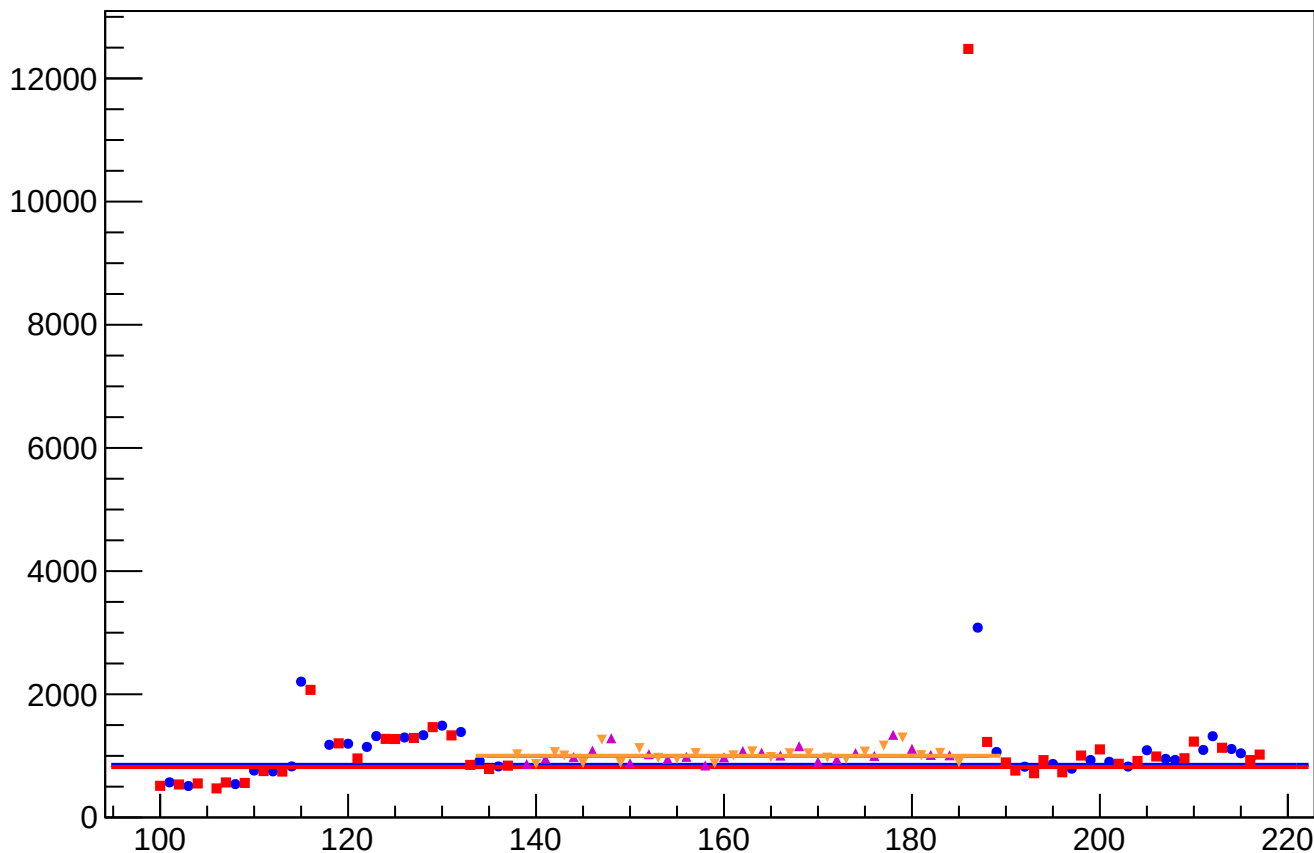
Right: -288.267 ± 146.499 χ^2/NDF : 90.4/67

In: 36.260 ± 160.297 χ^2/NDF : 68.8/54

Out: -109.023 ± 152.439 χ^2/NDF : 86.3/60

All: -40.029 ± 110.464 χ^2/NDF : 155.5/115

asym_sam5_rms vs Slug, Sign Corrected



Right In: 854.466+/-0.152 χ^2/NDF : 2588222.3/31

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 818.248+/-0.142 χ^2/NDF : 3553212.9/35

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

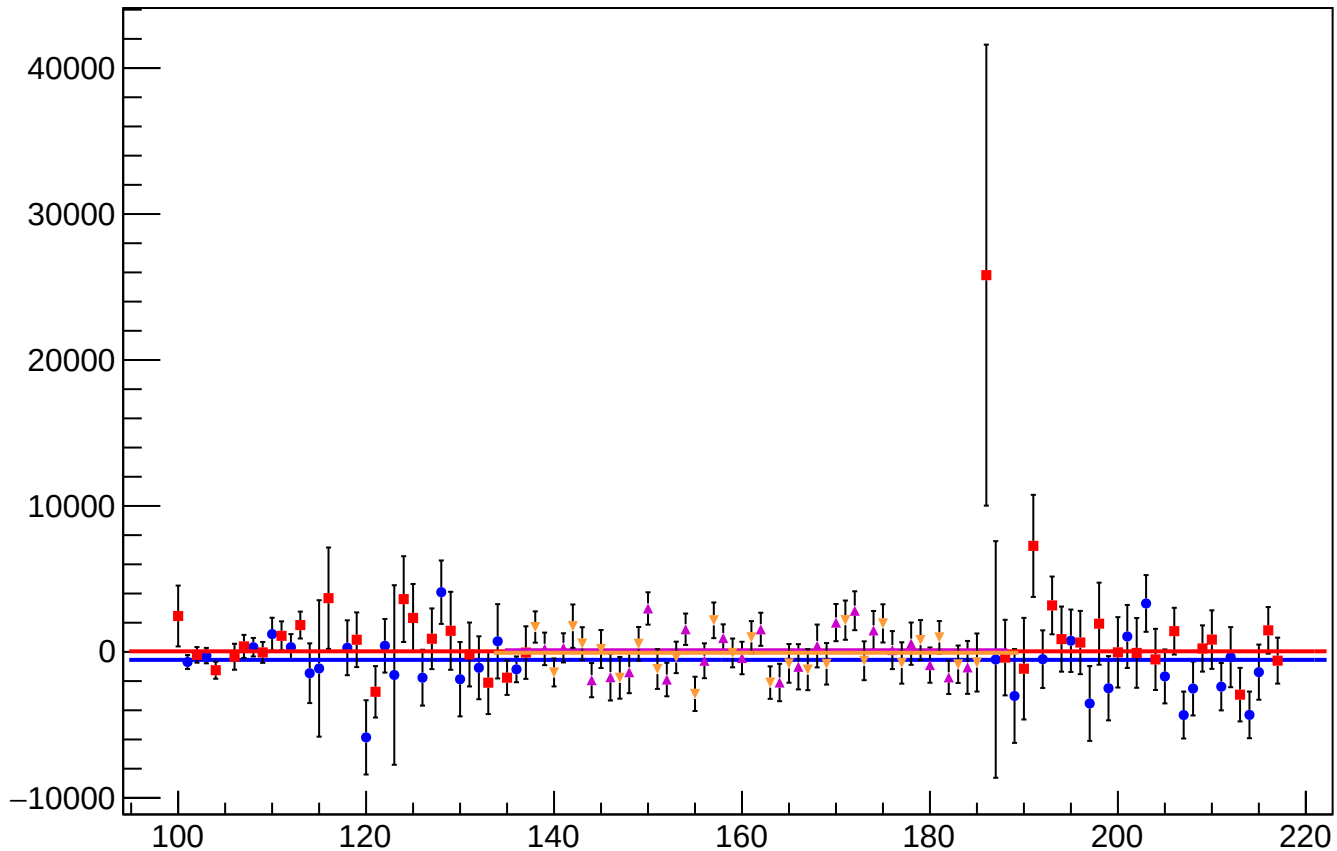
Right: 835.095+/-0.104 χ^2/NDF : 6171847.5/67

In: 918.090+/-0.113 χ^2/NDF : 3388856.1/54

Out: 895.366+/-0.108 χ^2/NDF : 4627771.0/60

All: 906.157+/-0.078 χ^2/NDF : 8037731.6/115

asym_sam6_mean vs Slug, Sign Corrected



Right In: -544.943+/-225.892 χ^2/NDF : 38.6/31

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 40.805+/-221.854 χ^2/NDF : 36.7/35

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

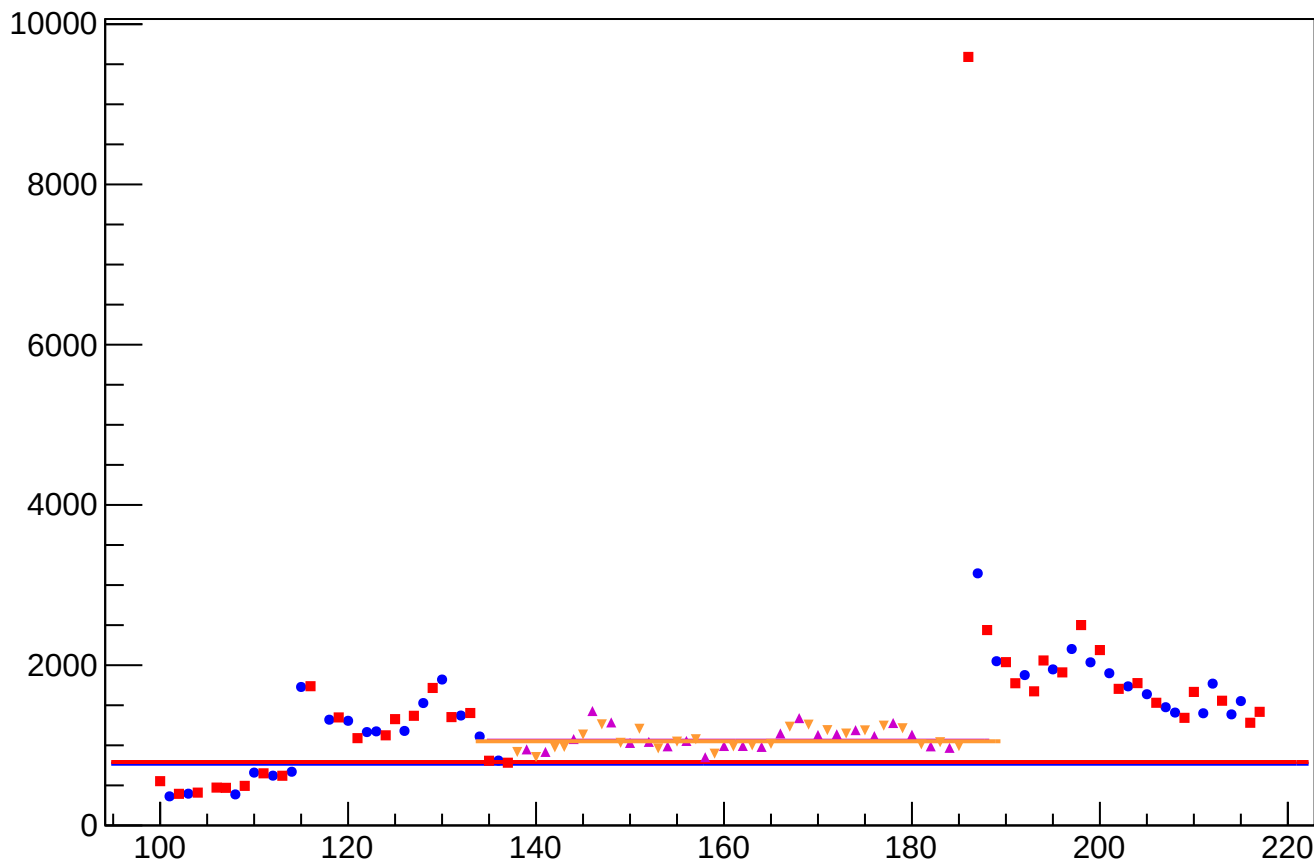
Right: -246.788+/-158.283 χ^2/NDF : 78.7/67

In: -256.436+/-169.208 χ^2/NDF : 77.2/54

Out: -4.229+/-164.903 χ^2/NDF : 67.7/60

All: -127.084+/-118.096 χ^2/NDF : 146.0/115

asym_sam6_rms vs Slug, Sign Corrected



Right In: 770.378+/-0.160 χ^2/NDF : 11126501.7/31

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 791.812+/-0.157 χ^2/NDF : 11702285.4/35

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

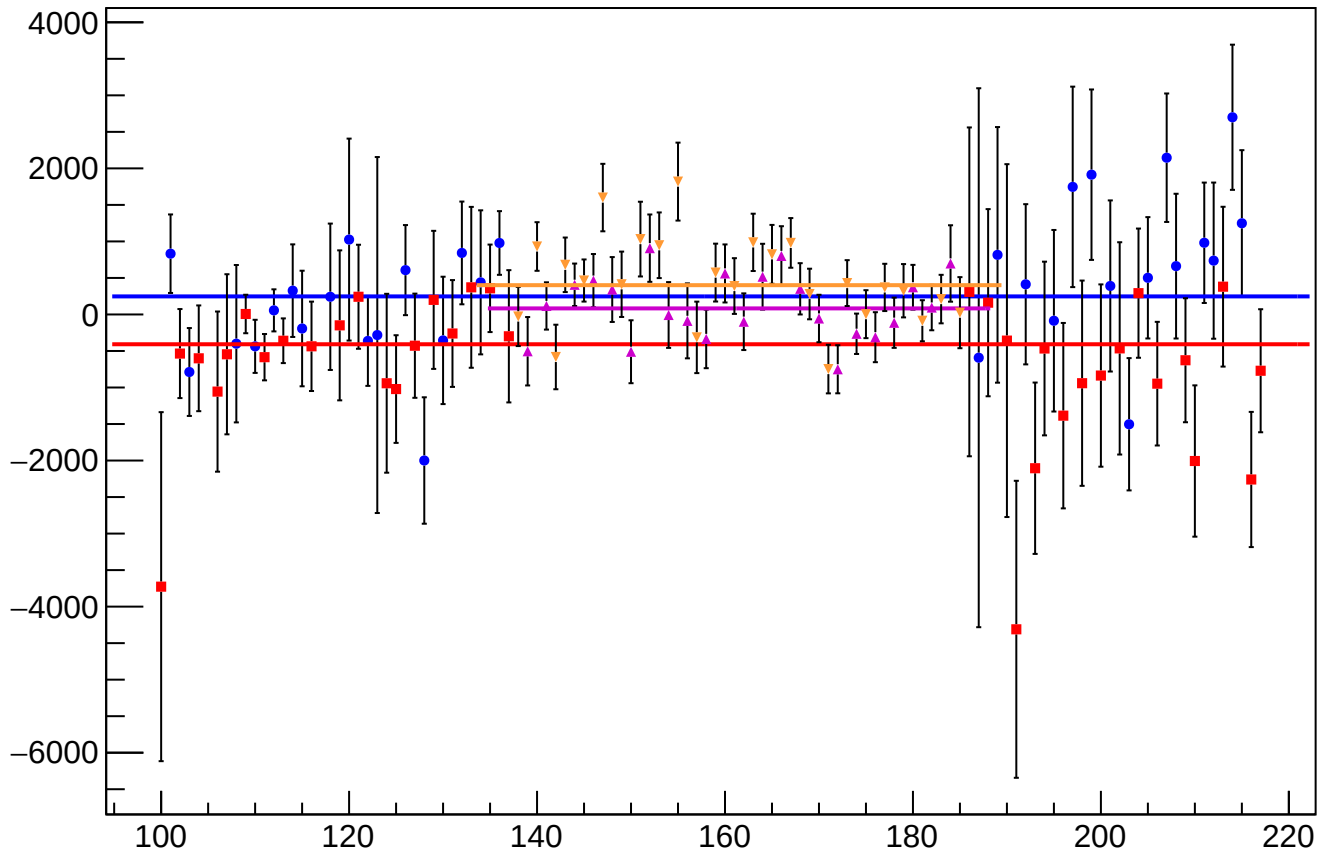
Right: 781.288+/-0.112 χ^2/NDF : 22837952.8/67

In: 896.658+/-0.120 χ^2/NDF : 13079153.1/54

Out: 907.646+/-0.117 χ^2/NDF : 13403738.9/60

All: 902.294+/-0.084 χ^2/NDF : 26487217.5/117

asym_sam7_mean vs Slug, Sign Corrected



Right In: 247.256+/-127.072 χ^2/NDF : 41.5/31

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -407.893+/-117.328 χ^2/NDF : 24.7/35

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

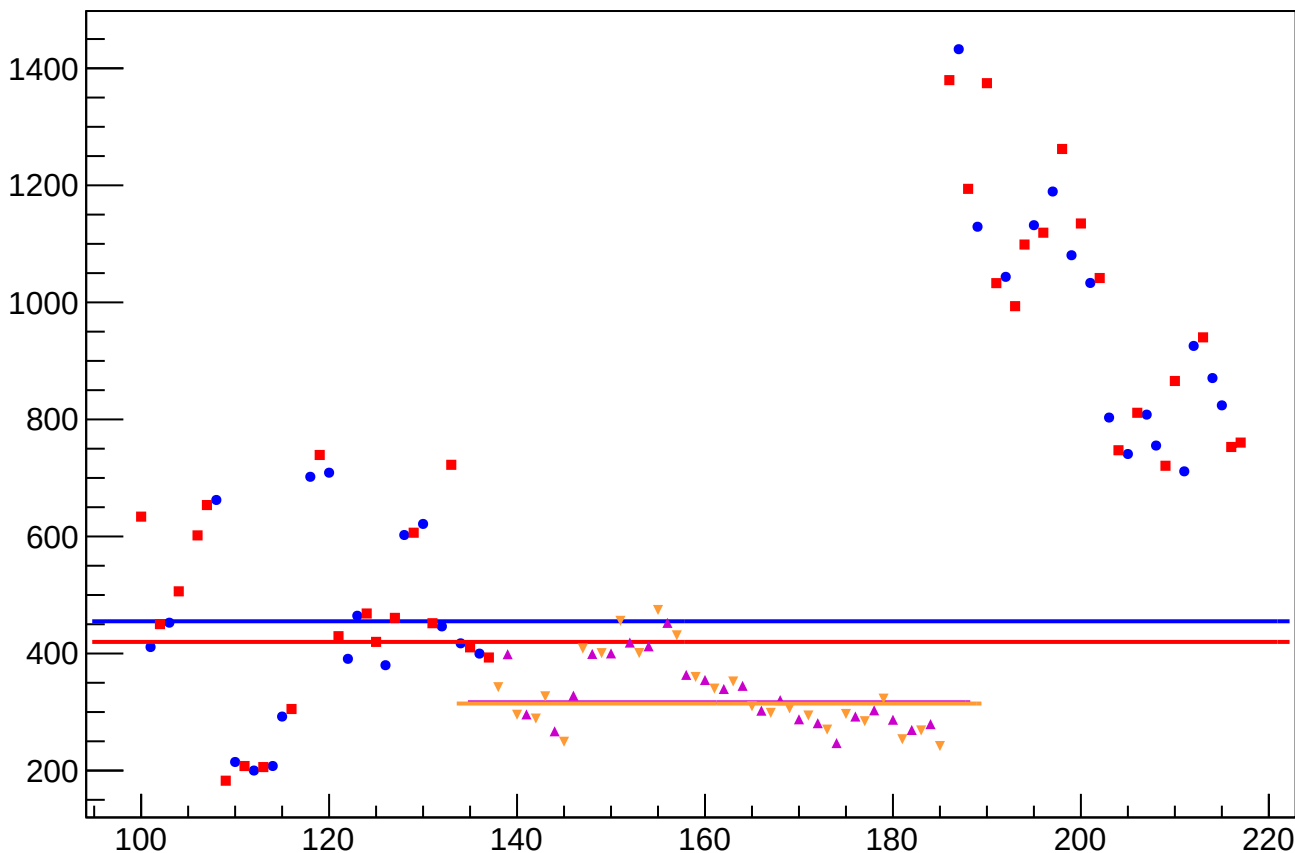
Right: -106.398+/-86.202 χ^2/NDF : 80.6/67

In: 126.953+/-65.793 χ^2/NDF : 71.7/54

Out: 168.358+/-62.920 χ^2/NDF : 110.7/60

All: 148.579+/-45.473 χ^2/NDF : 182.6/115

asym_sam7_rms vs Slug, Sign Corrected



Right In: 455.080 $\pm$ 0.090 χ^2 /NDF: 8809091.8/31

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 419.826 $\pm$ 0.083 χ^2 /NDF: 11624711.1/35

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

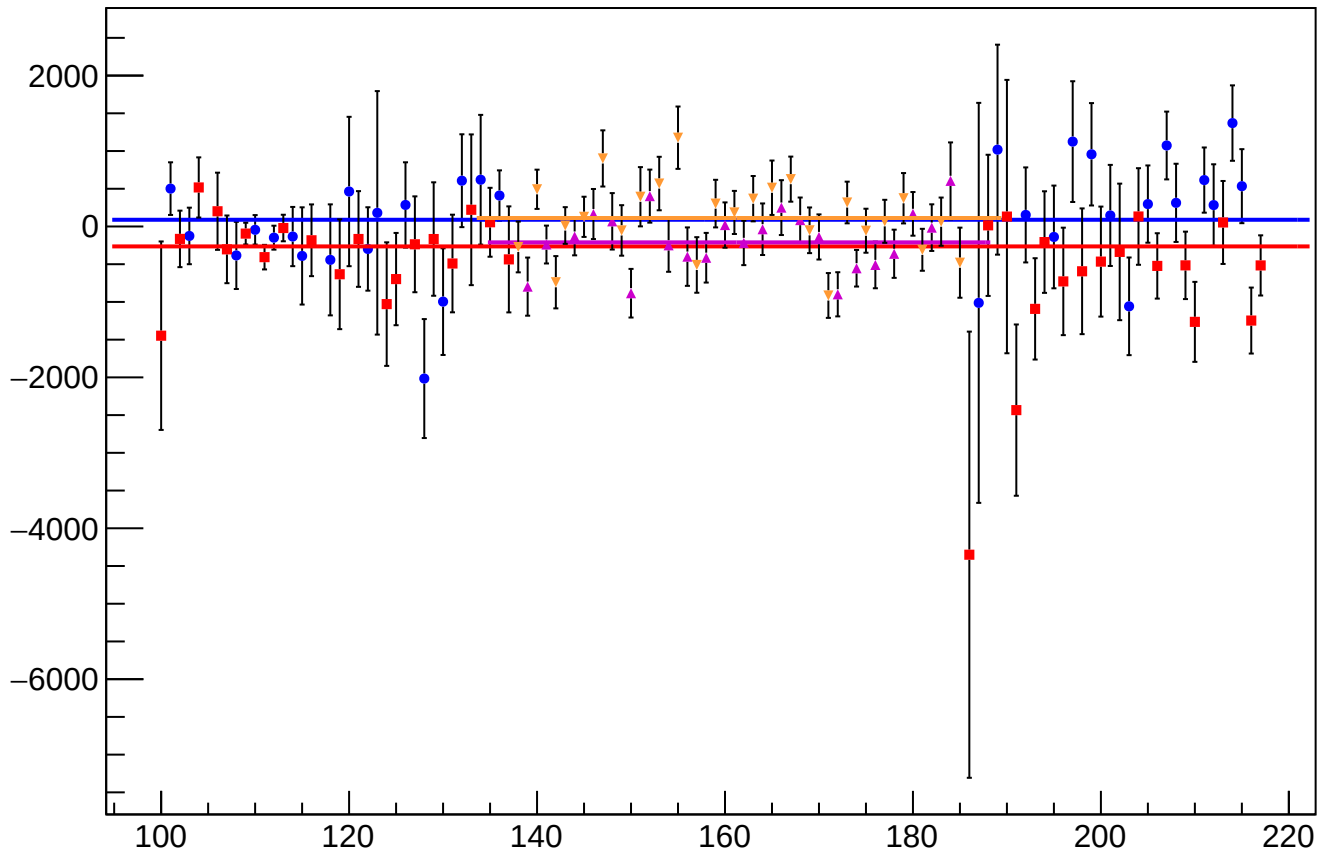
Right: 436.050 $\pm$ 0.061 χ^2 /NDF: 20516903.6/67

In: 353.758 $\pm$ 0.047 χ^2 /NDF: 11467278.1/54

Out: 344.818 $\pm$ 0.044 χ^2 /NDF: 13884542.8/60

All: 349.089 $\pm$ 0.032 χ^2 /NDF: 25371106.6/11

asym_sam8_mean vs Slug, Sign Corrected



Right In: 89.016 $\pm$ 77.922 χ^2/NDF : 40.6/31

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -264.175 $\pm$ 68.480 χ^2/NDF : 30.6/35

Left In: -210.453 $\pm$ 65.510 χ^2/NDF : 29.2/22

Left: -41.890 $\pm$ 45.275 χ^2/NDF : 91.0/47

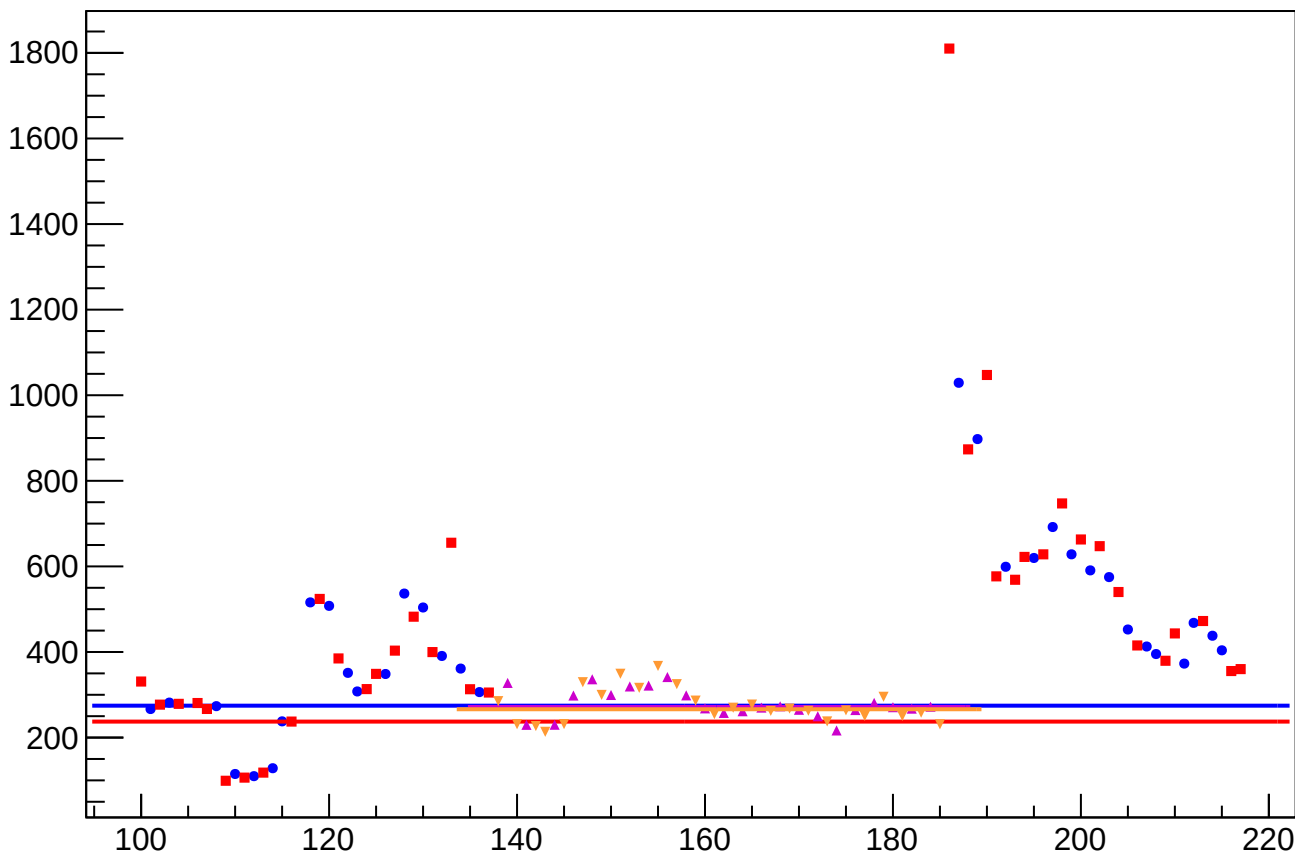
Right: -110.264 $\pm$ 51.439 χ^2/NDF : 82.8/67

In: -86.440 $\pm$ 50.144 χ^2/NDF : 78.4/54

Out: -59.244 $\pm$ 46.221 χ^2/NDF : 96.2/60

All: -71.737 $\pm$ 33.986 χ^2/NDF : 174.8/115

asym_sam8_rms vs Slug, Sign Corrected



Right In: 274.551+/-0.055 χ^2/NDF : 9548346.5/31

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 237.340+/-0.048 χ^2/NDF : 13187979.5/35

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

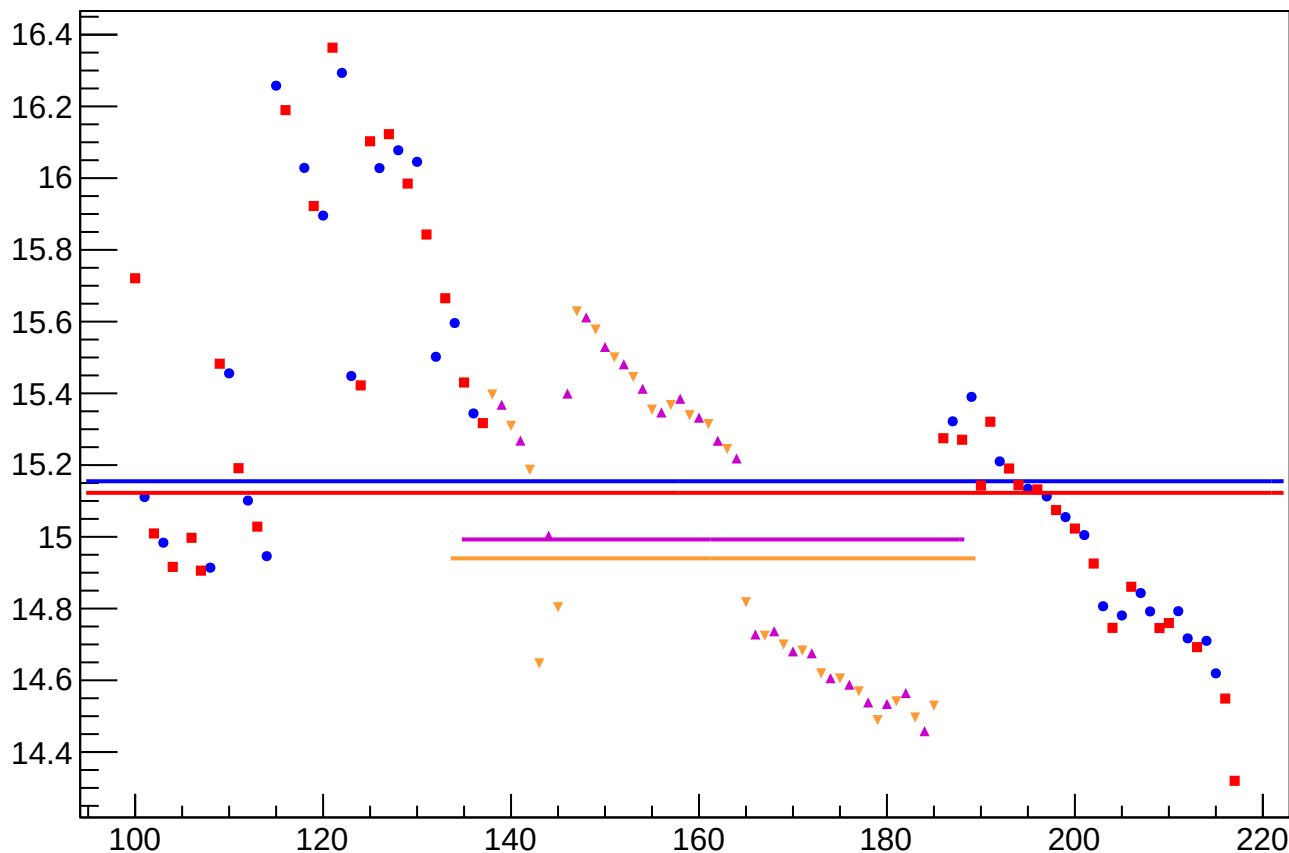
Right: 253.555+/-0.036 χ^2/NDF : 22993672.3/67

In: 272.714+/-0.035 χ^2/NDF : 10072122.5/54

Out: 253.056+/-0.033 χ^2/NDF : 14031099.1/60

All: 262.086+/-0.024 χ^2/NDF : 24269398.4/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.155+/-0.000 χ^2/NDF : 19960980009.1/31

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.123+/-0.000 χ^2/NDF : 24026771622.9/35

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

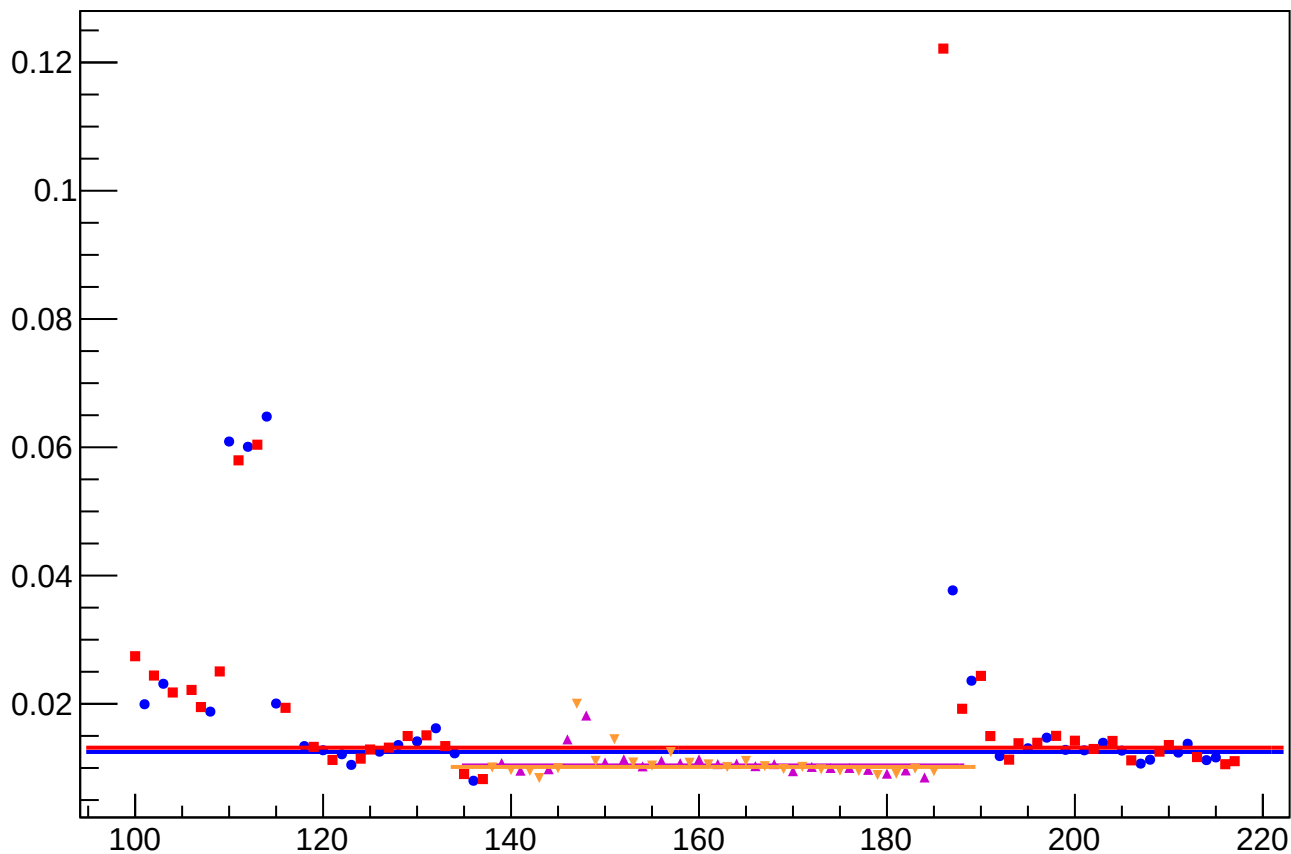
Right: 15.139+/-0.000 χ^2/NDF : 44037449695.2/67

In: 15.056+/-0.000 χ^2/NDF : 43547580992.6/54

Out: 15.005+/-0.000 χ^2/NDF : 50219143773.7/60

All: 15.030+/-0.000 χ^2/NDF : 94096508644.1

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2610237.5/31

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.013+/-0.000 χ^2/NDF : 3283807.3/35

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

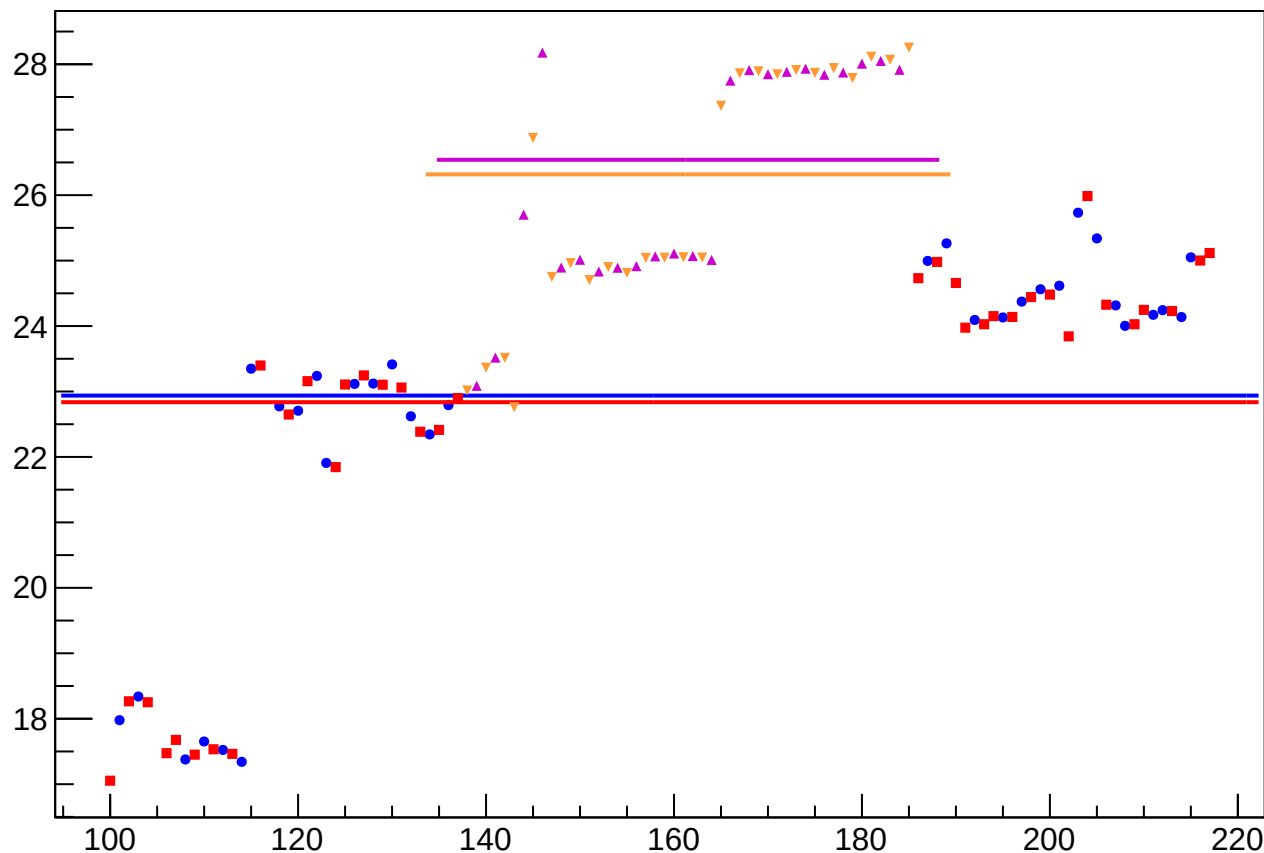
Right: 0.013+/-0.000 χ^2/NDF : 5936773.7/67

In: 0.011+/-0.000 χ^2/NDF : 3677400.3/54

Out: 0.011+/-0.000 χ^2/NDF : 5077872.7/60

All: 0.011+/-0.000 χ^2/NDF : 8755363.9/115

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.938 $\pm$ 0.000

χ^2/NDF : 1432202611.1/31

Left: 26.424 $\pm$ 0.000

χ^2/NDF : 8058273722.3/47

Right: 22.889 $\pm$ 0.000

χ^2/NDF : 3155143996.7/67

Left Out: 26.318 $\pm$ 0.000

χ^2/NDF : 4715403741.0/24

In: 25.636 $\pm$ 0.000

χ^2/NDF : 8961220155.6/54

Right Out: 22.837 $\pm$ 0.000

χ^2/NDF : 1720801111.1/35

Out: 25.538 $\pm$ 0.000

χ^2/NDF : 10265138171.9/60

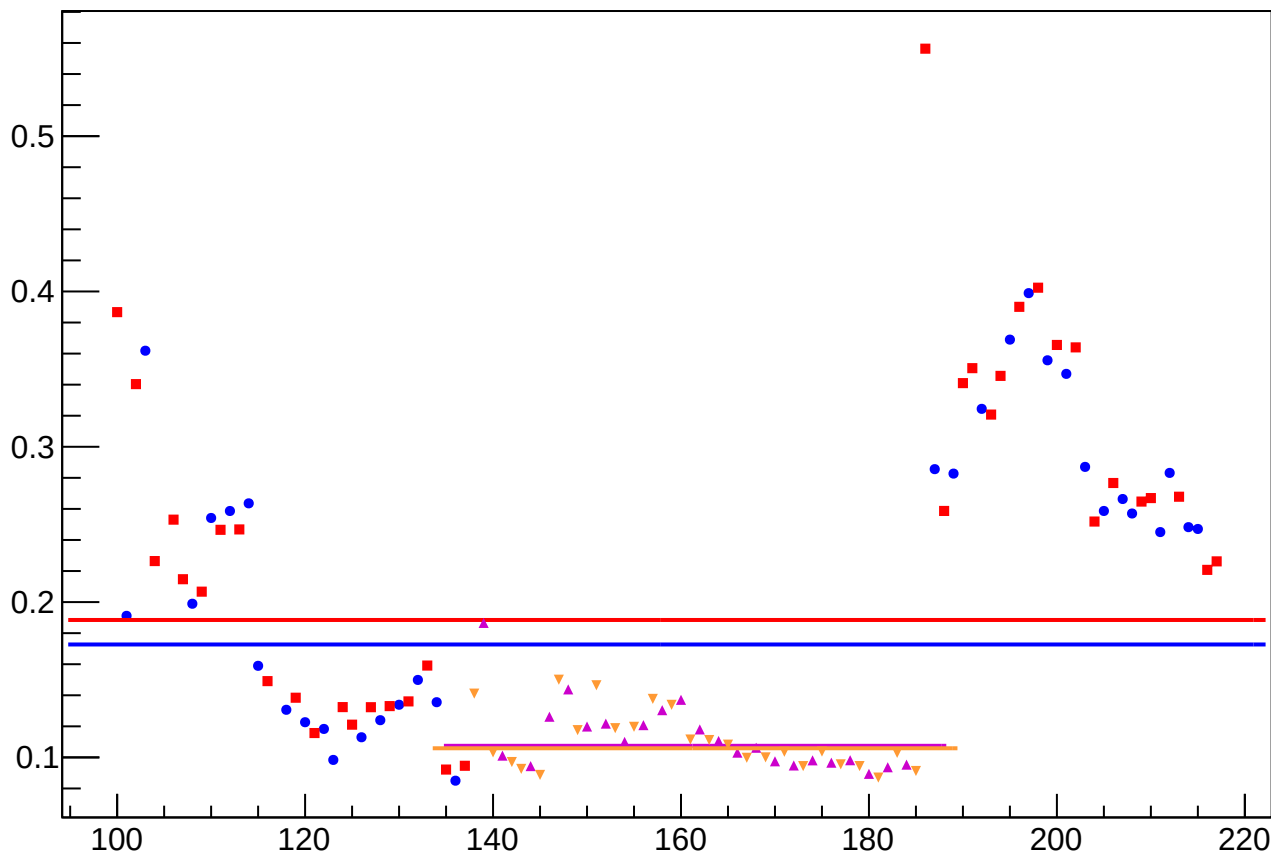
Left In: 26.540 $\pm$ 0.000

χ^2/NDF : 3309392772.6/22

All: 25.586 $\pm$ 0.000

χ^2/NDF : 19234952376.8

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.173+/-0.000 χ^2/NDF : 6423821.3/31

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.188+/-0.000 χ^2/NDF : 6115545.0/35

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

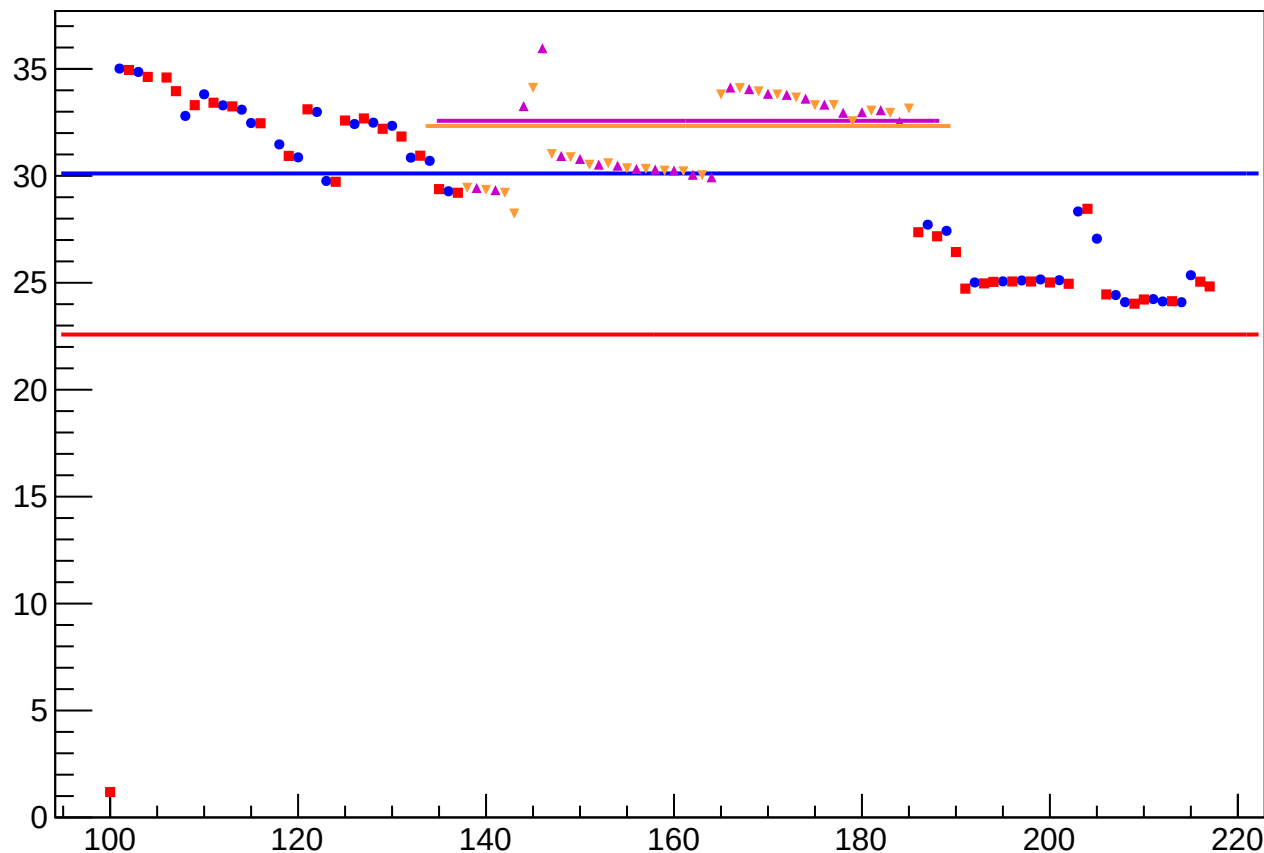
Right: 0.180+/-0.000 χ^2/NDF : 12643960.8/67

In: 0.124+/-0.000 χ^2/NDF : 9962414.1/54

Out: 0.124+/-0.000 χ^2/NDF : 11160723.5/60

All: 0.124+/-0.000 χ^2/NDF : 21123671.8/115

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.112+/-0.000 χ^2/NDF : 10562312150.3/31

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.581+/-0.000 χ^2/NDF : 232570150549.2/35

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

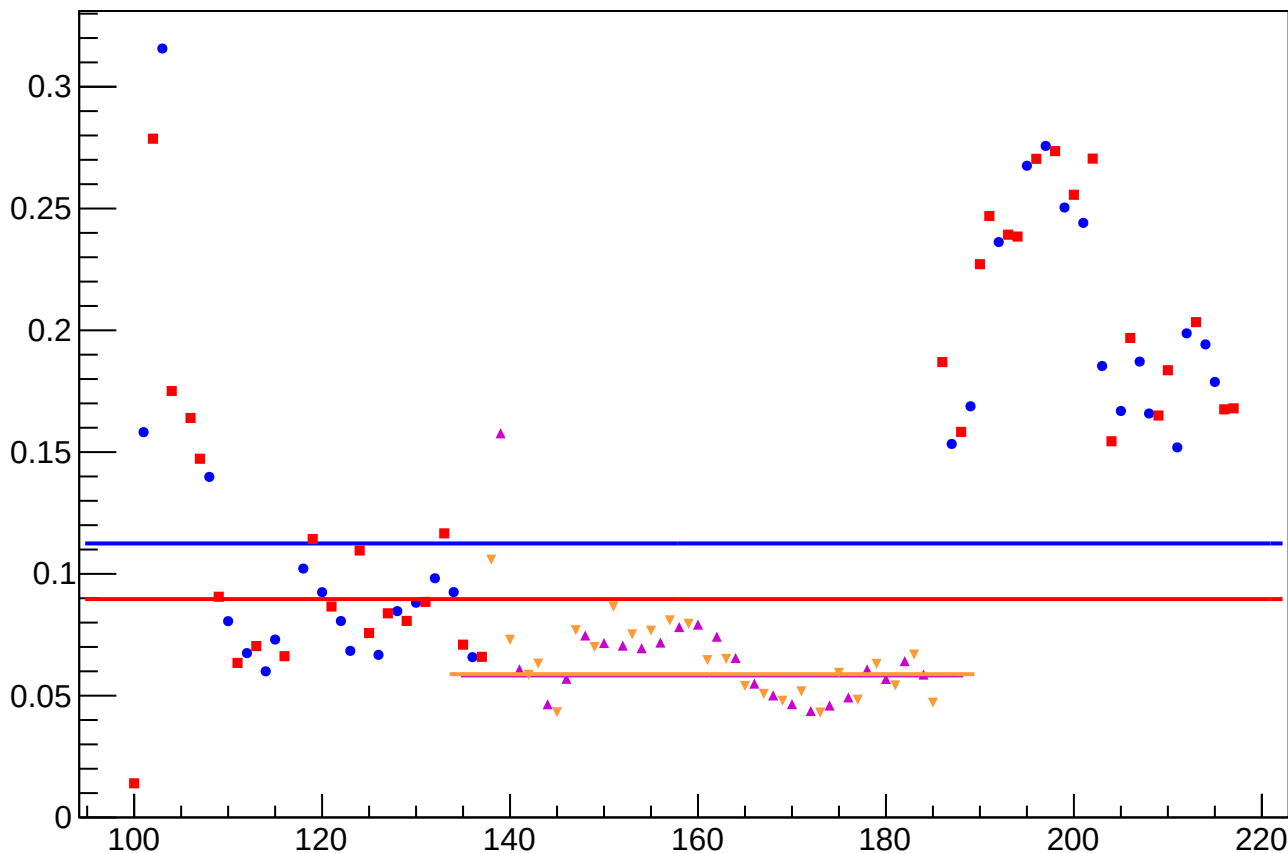
Right: 25.759+/-0.000 χ^2/NDF : 275383703480.0/67

In: 32.080+/-0.000 χ^2/NDF : 27128286614.8/54

Out: 29.918+/-0.000 χ^2/NDF : 341807913539.9/60

All: 30.942+/-0.000 χ^2/NDF : 380999367267.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.112 $\pm$ 0.000 χ^2 /NDF: 6666564.0/31

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.090 $\pm$ 0.000 χ^2 /NDF: 12488087.1/35

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

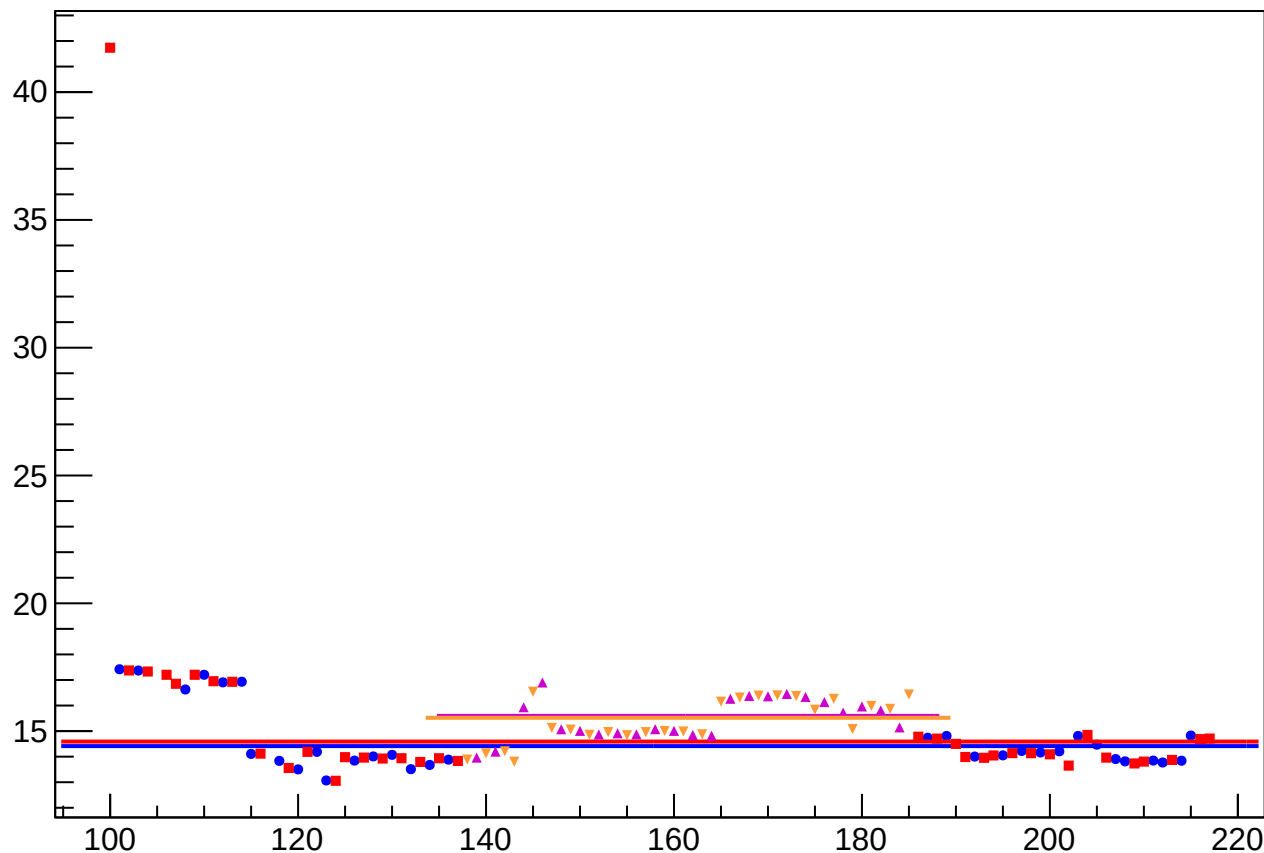
Right: 0.099 $\pm$ 0.000 χ^2 /NDF: 19748308.0/67

In: 0.069 $\pm$ 0.000 χ^2 /NDF:12809456.9/54

Out: 0.066 $\pm$ 0.000 χ^2 /NDF:15816842.3/60

All: 0.068 $\pm$ 0.000 χ^2 /NDF: 28664714.2/115

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.412+/-0.000 χ^2/NDF : 1570781811.0/31

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.591+/-0.000 χ^2/NDF : 2039265364.3/35

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

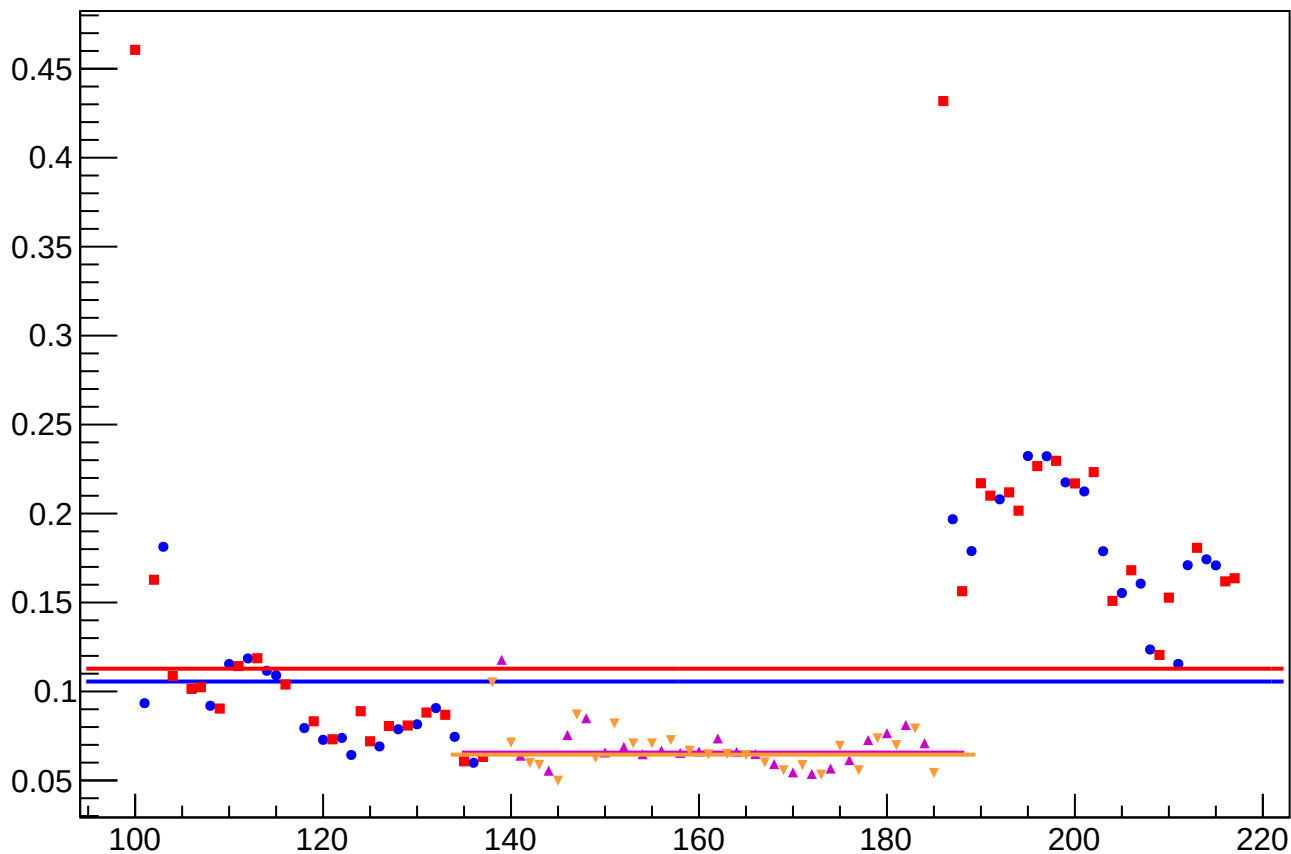
Right: 14.500+/-0.000 χ^2/NDF : 3628847983.0/67

In: 15.288+/-0.000 χ^2/NDF : 4731181072.0/54

Out: 15.302+/-0.000 χ^2/NDF : 5396183307.7/60

All: 15.295+/-0.000 χ^2/NDF : 10127836217.1

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.106+/-0.000 χ^2/NDF : 5542777.0/31

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.113+/-0.000 χ^2/NDF : 5620105.9/35

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

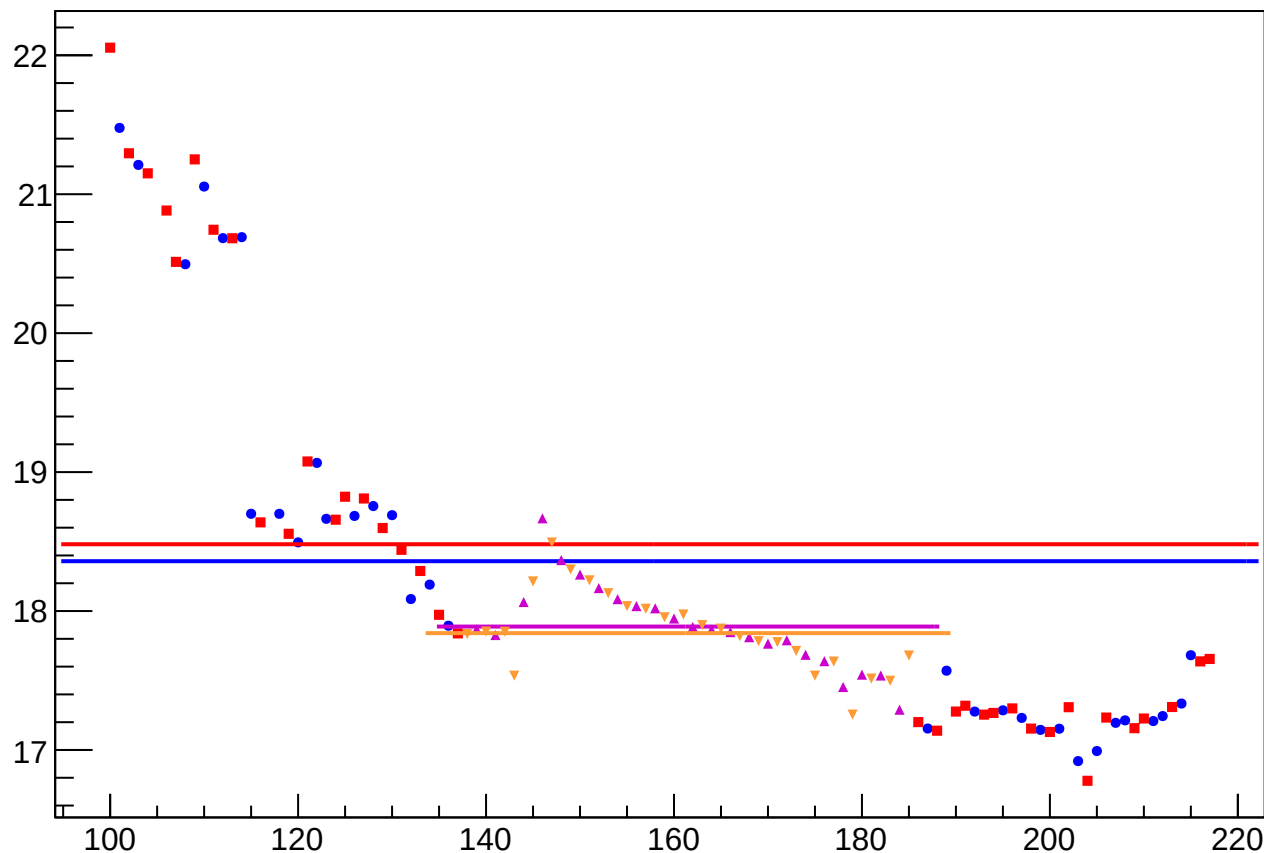
Right: 0.109+/-0.000 χ^2/NDF : 11224563.5/67

In: 0.076+/-0.000 χ^2/NDF : 9111177.5/54

Out: 0.076+/-0.000 χ^2/NDF : 10510509.6/60

All: 0.076+/-0.000 χ^2/NDF : 19621791.5/115

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.359 $\pm$ 0.000 χ^2/NDF : 32428001734.0/31

Left Out: 17.841 $\pm$ 0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.481 $\pm$ 0.000 χ^2/NDF : 34707389050.5/35

Left In: 17.888 $\pm$ 0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864 $\pm$ 0.000 χ^2/NDF : 2506375288.6/47

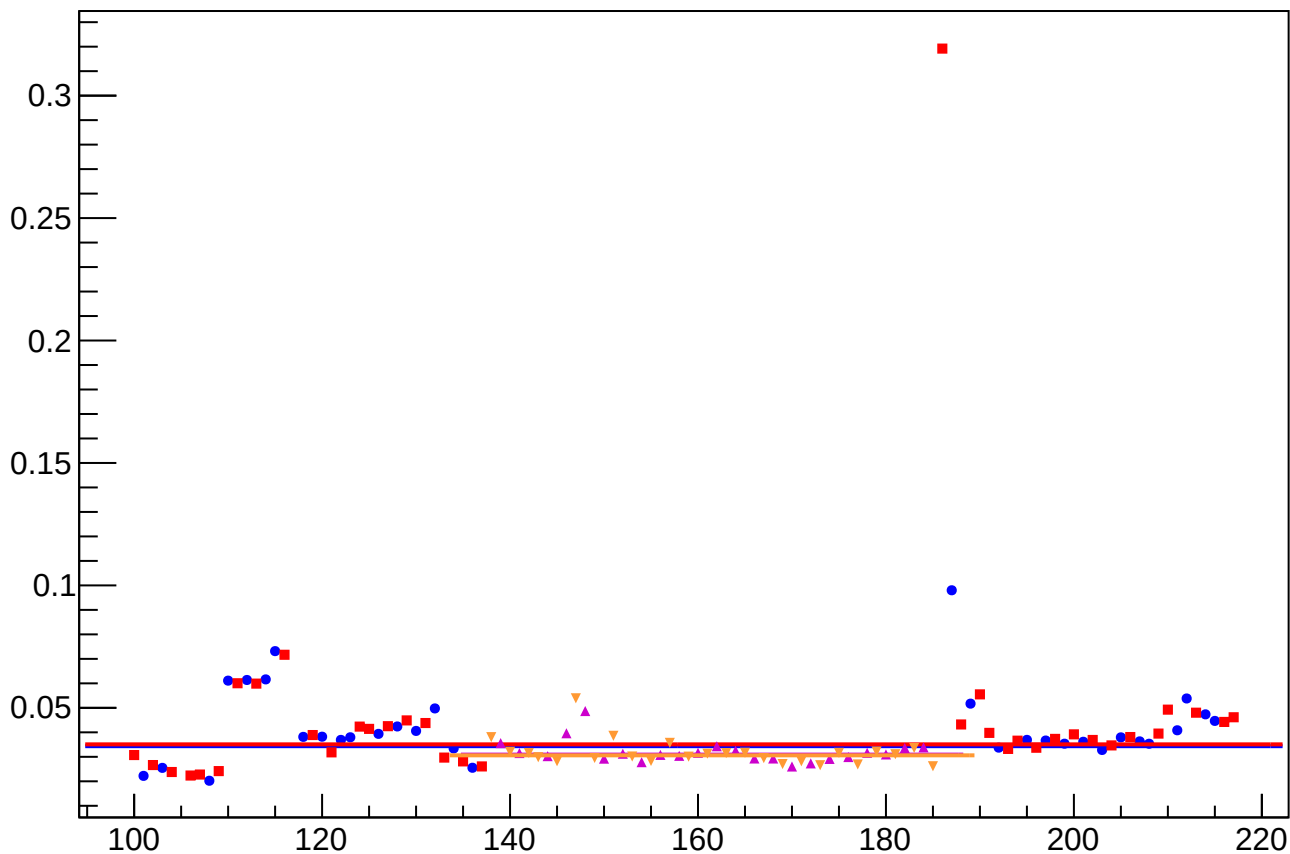
Right: 18.420 $\pm$ 0.000 χ^2/NDF : 67233574376.2/67

In: 18.090 $\pm$ 0.000 χ^2/NDF : 35281306038.2/54

Out: 18.108 $\pm$ 0.000 χ^2/NDF : 39169861876.0/60

All: 18.099 $\pm$ 0.000 χ^2/NDF : 74455856890.6

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 2185016.3/31

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2585090.6/35

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

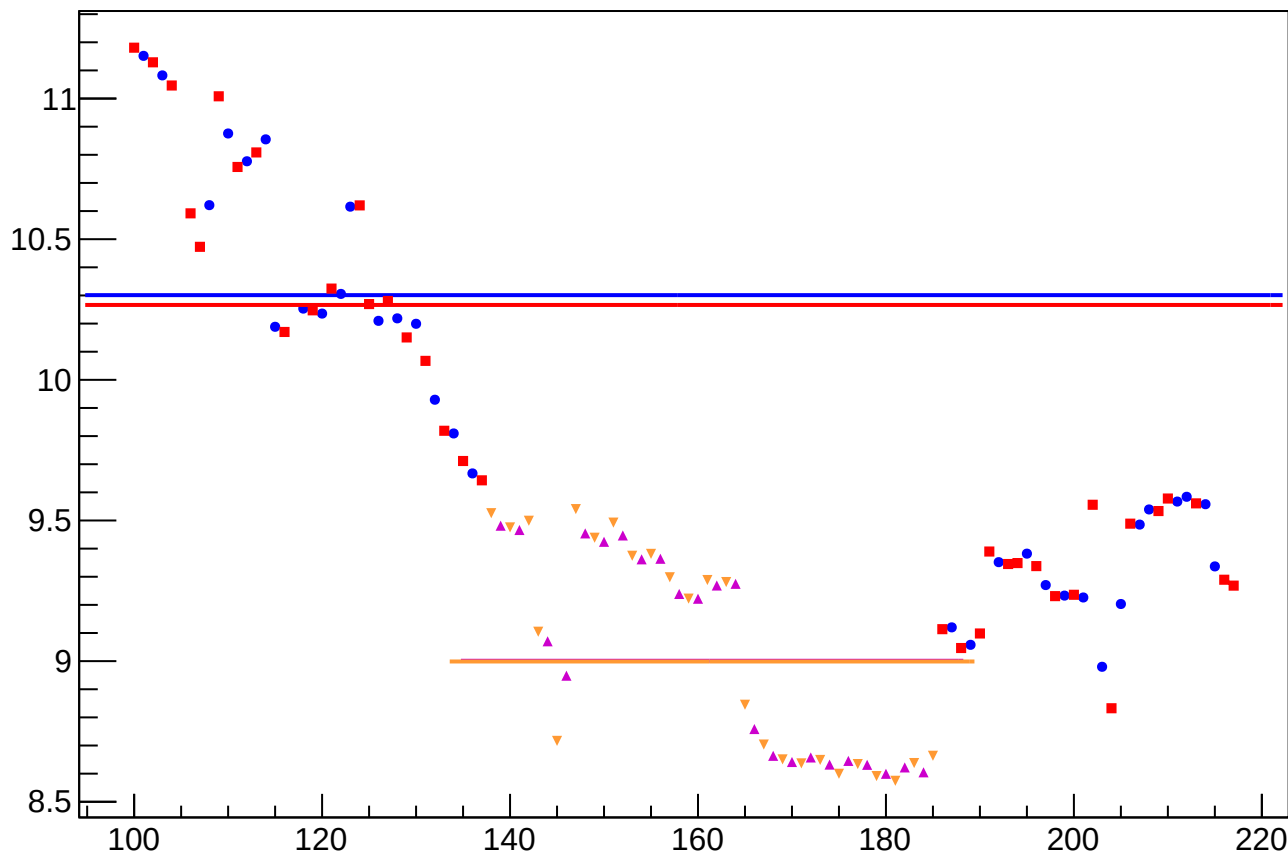
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 4777423.6/67

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2815496.2/54

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:3487867.0/60

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 6303647.4/115

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.301+/-0.000 χ^2/NDF : 16585449939.9/31

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.266+/-0.000 χ^2/NDF : 15923702272.3/35

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

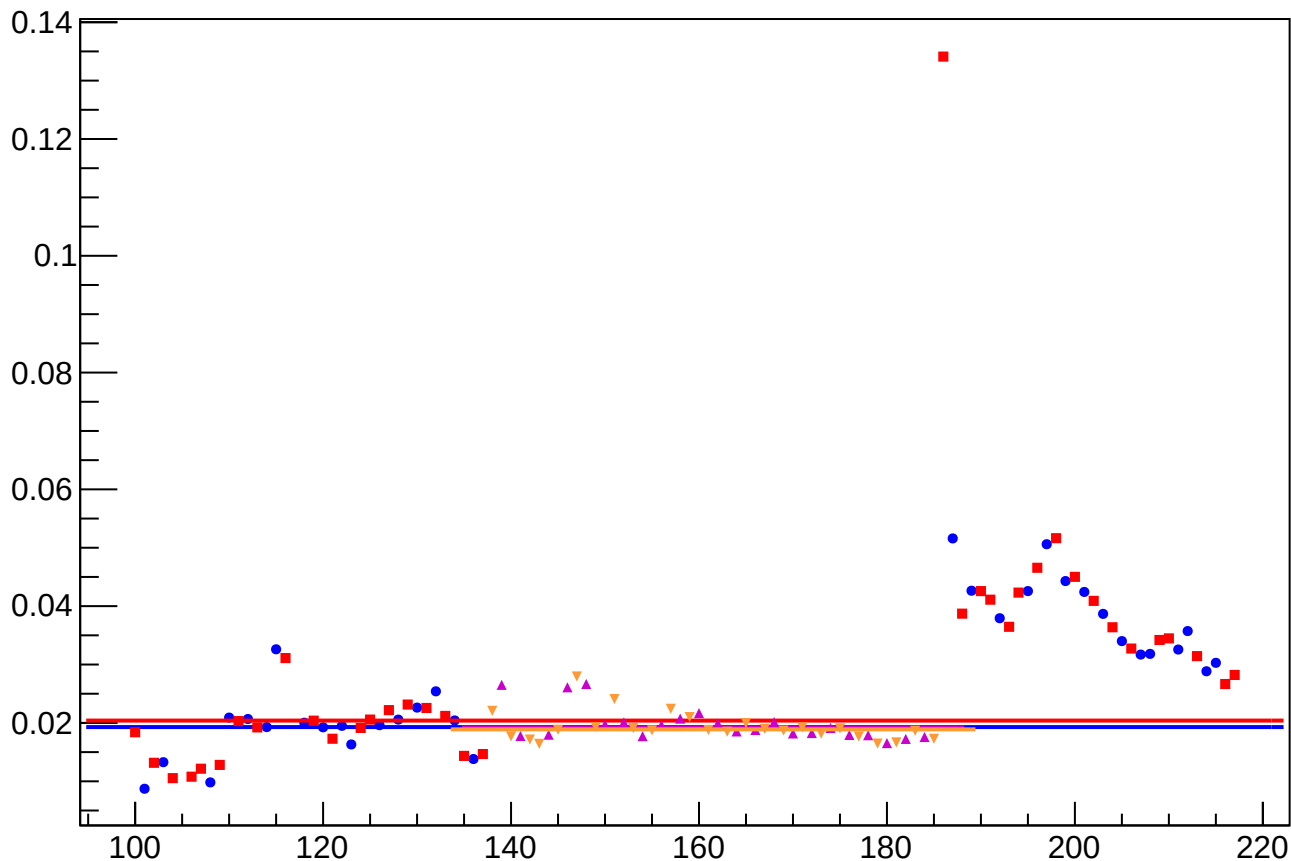
Right: 10.284+/-0.000 χ^2/NDF : 32529724509.4/67

In: 9.576+/-0.000 χ^2/NDF : 53869408369.2/54

Out: 9.527+/-0.000 χ^2/NDF : 53791575712.7/60

All: 9.551+/-0.000 χ^2/NDF : 107753247481.9

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 7520458.7/31

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7401948.0/35

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

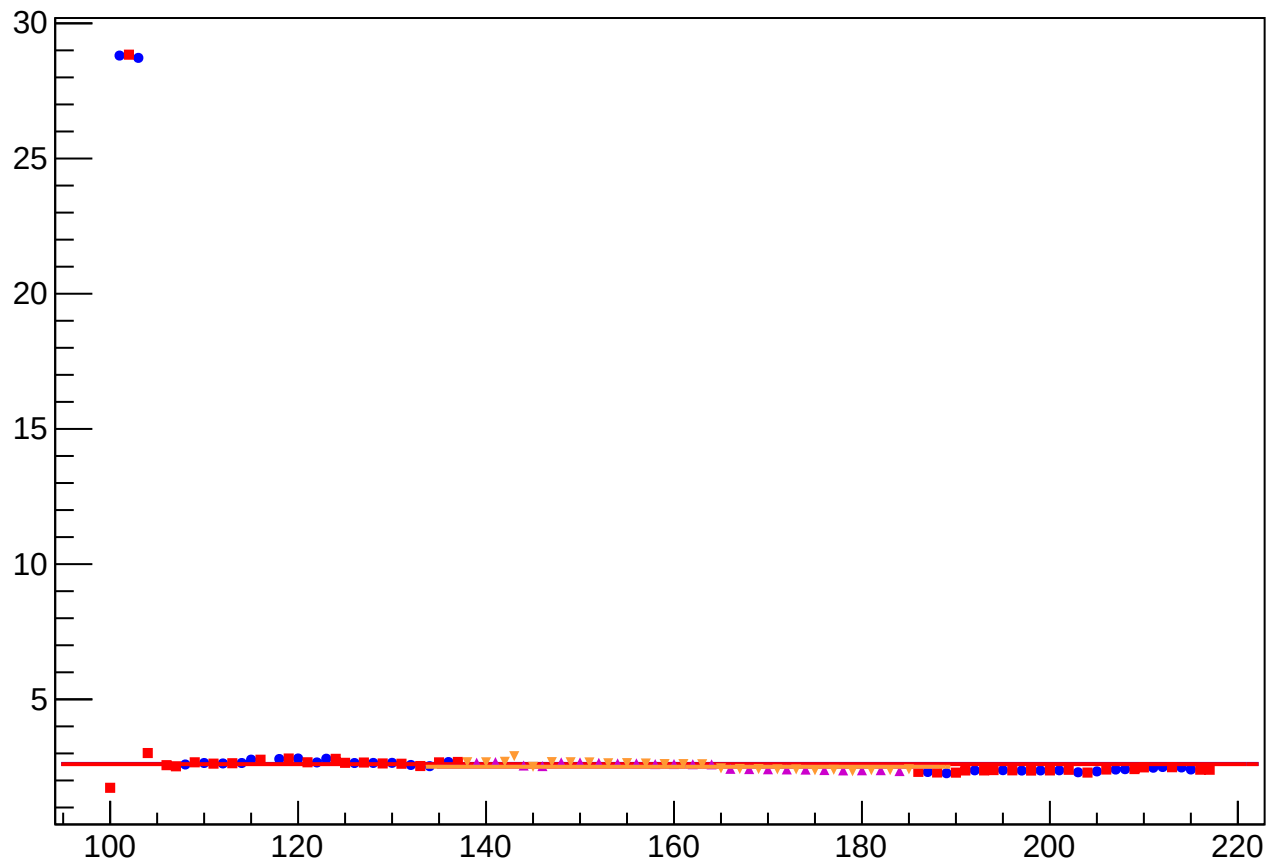
Right: 0.020+/-0.000 χ^2/NDF : 14964280.0/67

In: 0.019+/-0.000 χ^2/NDF : 8002429.3/54

Out: 0.020+/-0.000 χ^2/NDF : 7918703.0/60

All: 0.019+/-0.000 χ^2/NDF : 15926945.9/115

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.612 $\pm$ 0.000 χ^2 /NDF: 183257700508.2/31

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.604 $\pm$ 0.000 χ^2 /NDF: 94198806881.7/35

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

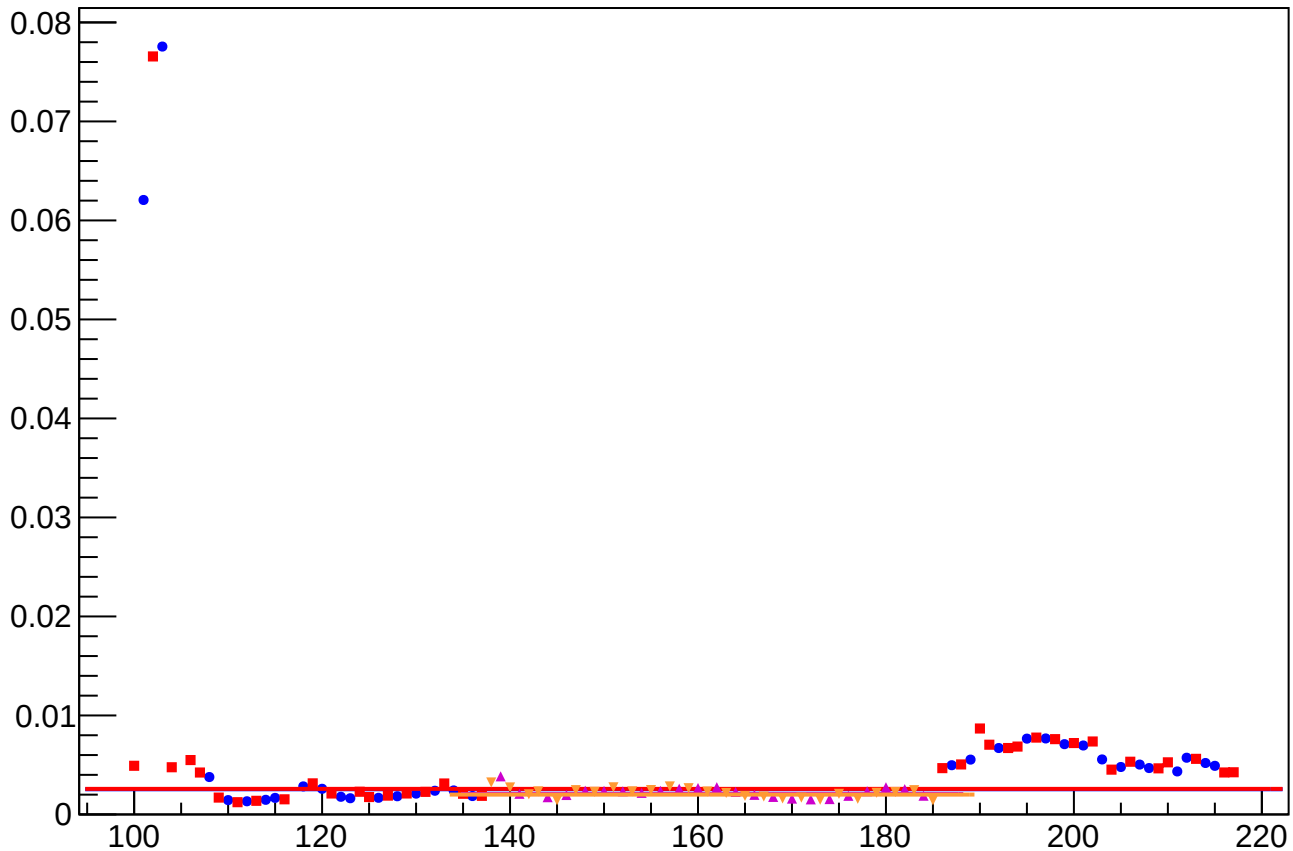
Right: 2.608 $\pm$ 0.000 χ^2 /NDF: 277511986809.0/67

In: 2.541 $\pm$ 0.000 χ^2 /NDF: 238686230072.3/54

Out: 2.538 $\pm$ 0.000 χ^2 /NDF: 169688982390.2/60

All: 2.540 $\pm$ 0.000 χ^2 /NDF: 408394682393.2

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 10550851.7/31

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10766561.2/35

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1303230.9/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2781893.0/47

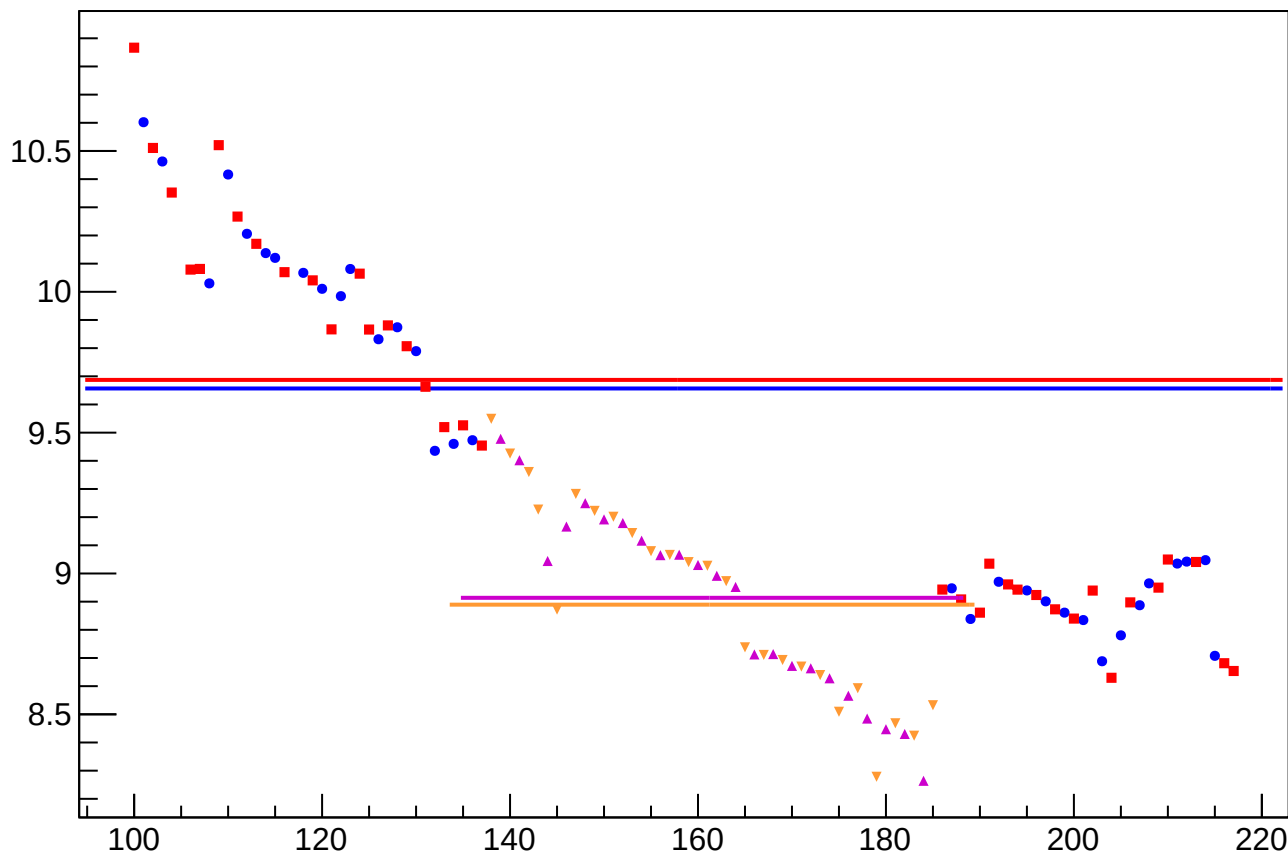
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 21320417.0/67

In: 0.002 $\pm$ 0.000 χ^2 /NDF:12371807.5/54

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:13030873.0/60

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 25406266.1/115

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.657+/-0.000

χ^2/NDF : 85058672175.4/31

Left: 8.901+/-0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889+/-0.000

χ^2/NDF : 34704694045.9/24

Right: 9.673+/-0.000

χ^2/NDF : 194839981132.9/67

Right Out: 9.687+/-0.000

χ^2/NDF : 109656091065.1/35

In: 9.232+/-0.000

χ^2/NDF : 196025069901.1/54

Out: 9.217+/-0.000

χ^2/NDF : 249485109121.9/60

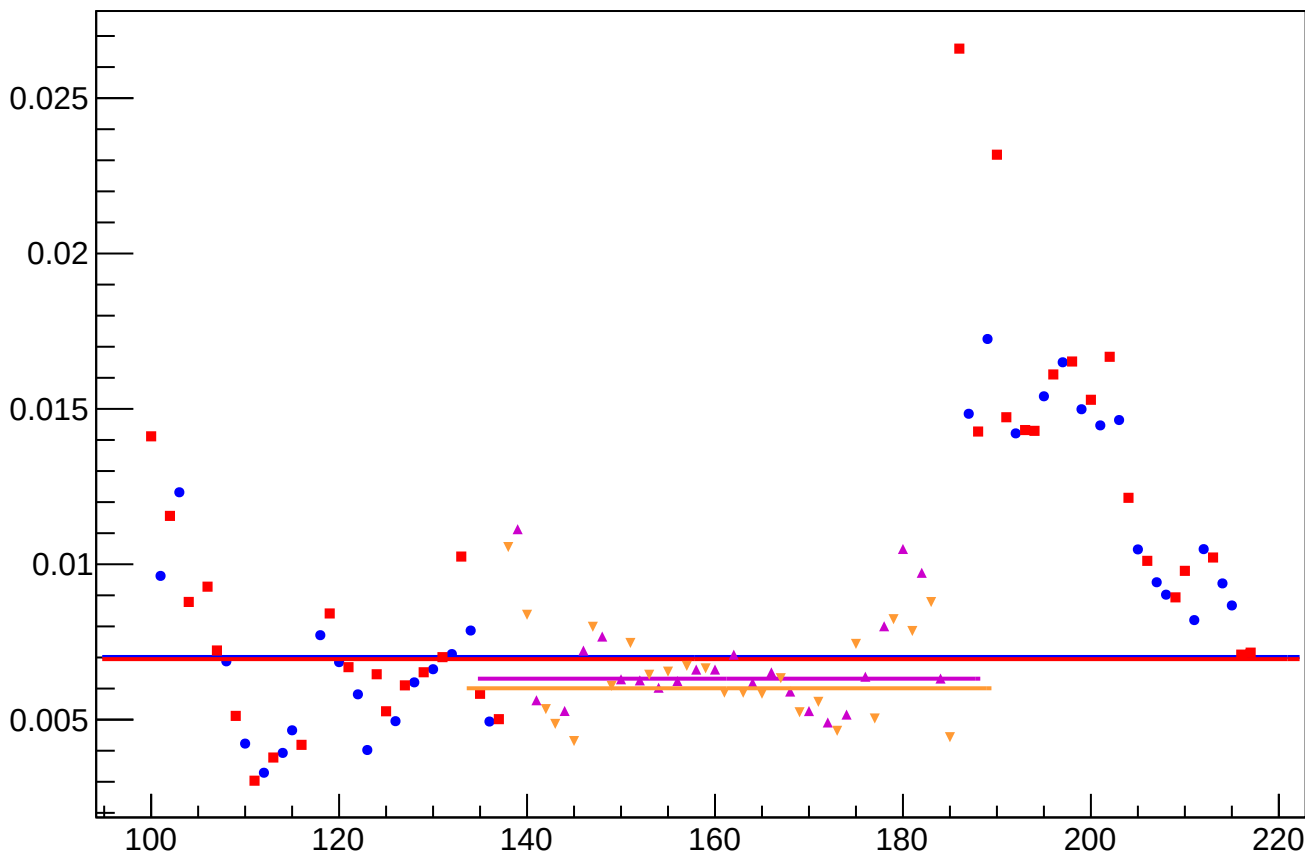
Left In: 8.914+/-0.000

χ^2/NDF : 28497227562.7/22

All: 9.224+/-0.000

χ^2/NDF : 445590696034.5

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6093376.6/31

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7552942.9/35

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

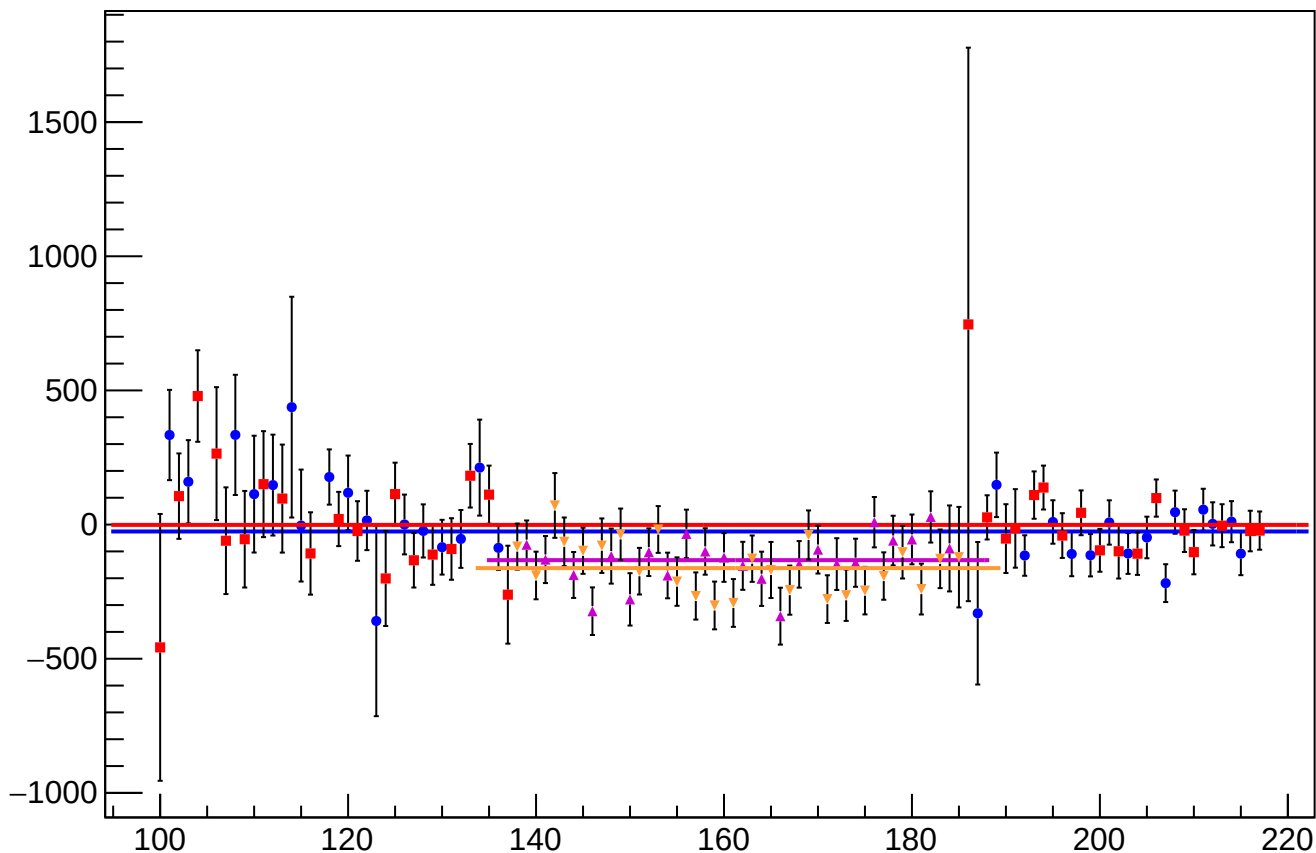
Right: 0.007+/-0.000 χ^2/NDF : 13647614.2/67

In: 0.007+/-0.000 χ^2/NDF :7326048.6/54

Out: 0.006+/-0.000 χ^2/NDF :9156056.2/60

All: 0.006+/-0.000 χ^2/NDF : 16514342.0/115

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -25.669 ± 17.787 χ^2/NDF : 39.3/31

Left Out: -162.161 ± 18.745 χ^2/NDF : 25.7/24

Right Out: -1.185 ± 17.569 χ^2/NDF : 36.8/35

Left In: -132.557 ± 19.403 χ^2/NDF : 20.7/22

Left: -147.870 ± 13.481 χ^2/NDF : 47.6/47

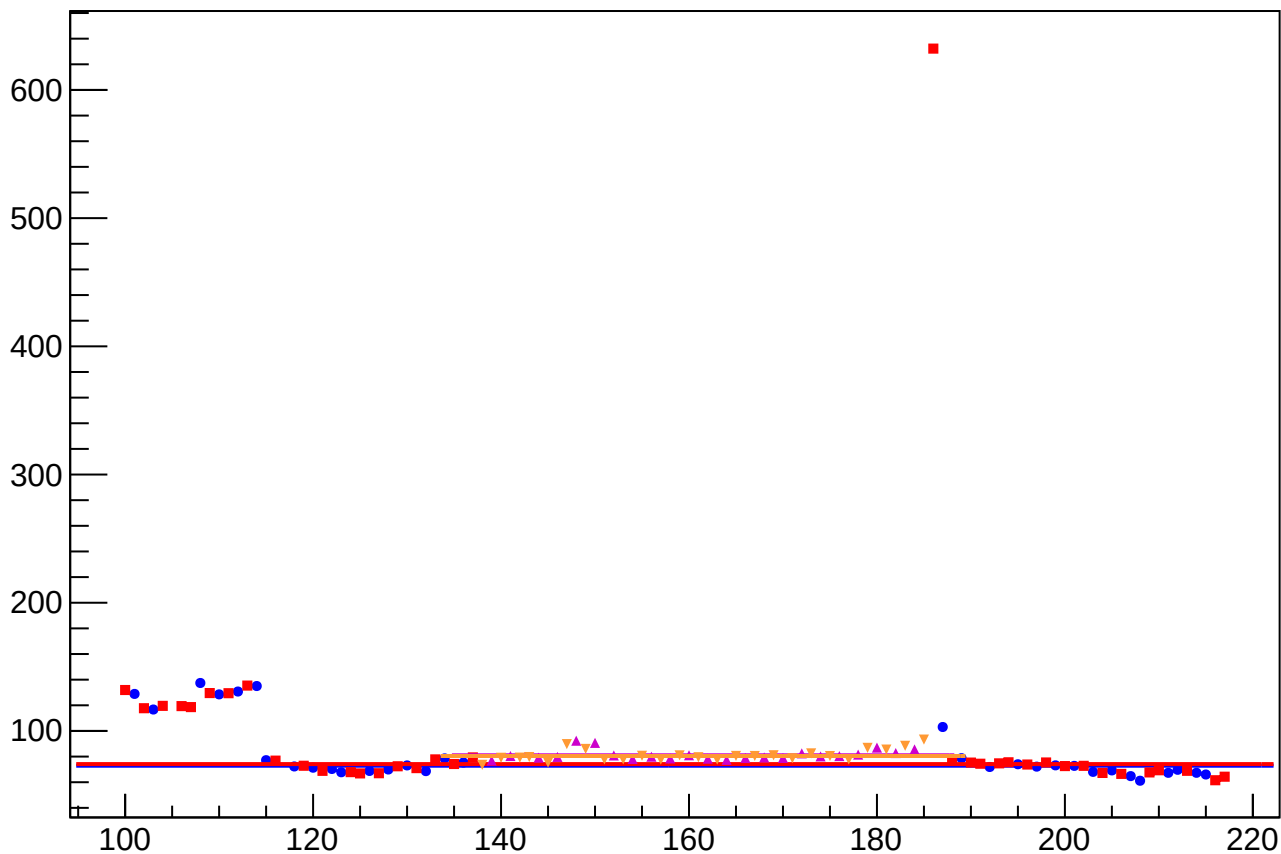
Right: -13.275 ± 12.500 χ^2/NDF : 77.1/67

In: -74.478 ± 13.112 χ^2/NDF : 76.6/54

Out: -76.465 ± 12.819 χ^2/NDF : 101.7/60

All: -75.494 ± 9.166 χ^2/NDF : 178.3/115

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 72.882 $\pm$ 0.013 χ^2 /NDF: 1078429.3/31

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 74.146 $\pm$ 0.012 χ^2 /NDF: 1801659.4/35

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

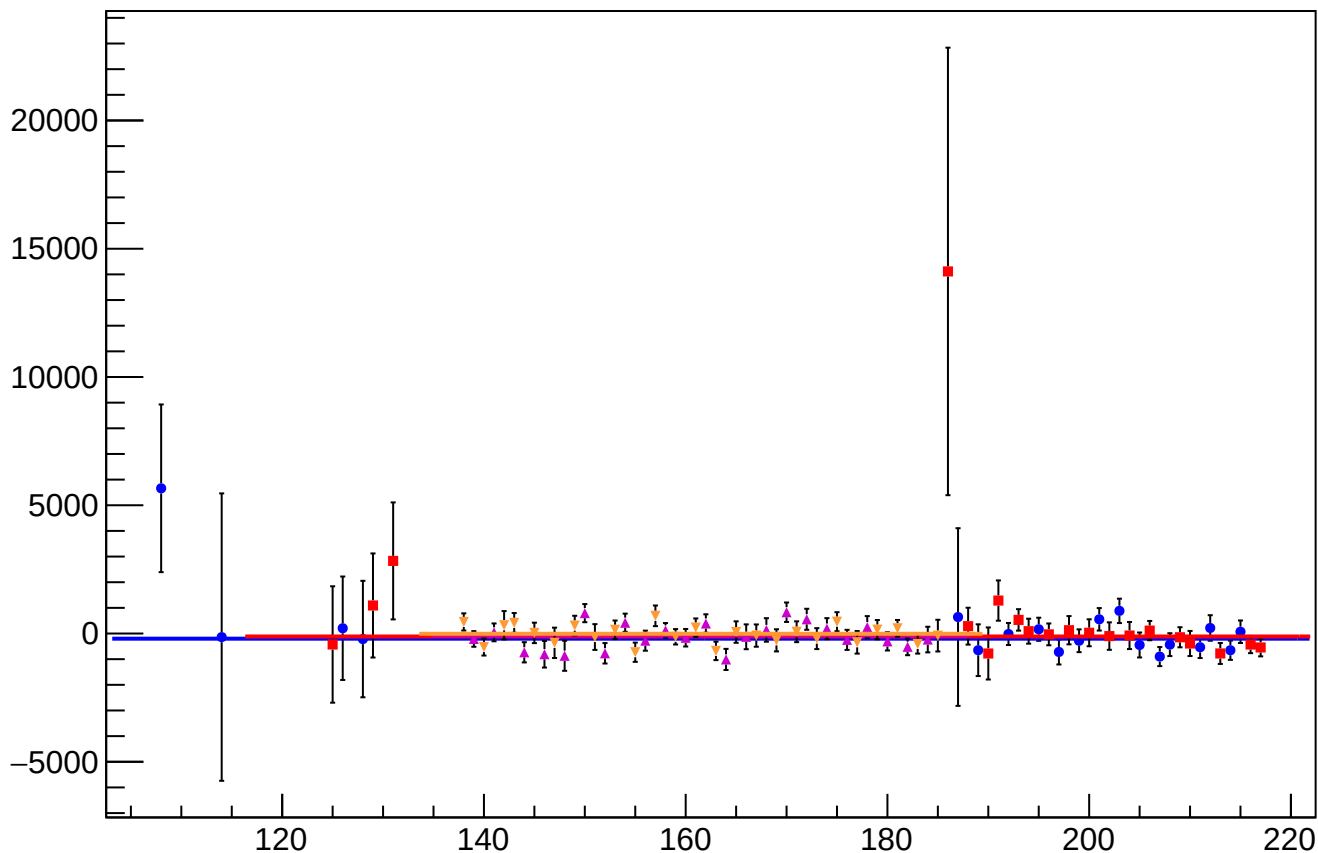
Right: 73.521 $\pm$ 0.009 χ^2 /NDF: 2885199.8/67

In: 76.595 $\pm$ 0.009 χ^2 /NDF: 1341570.9/54

Out: 77.098 $\pm$ 0.009 χ^2 /NDF: 2012374.9/60

All: 76.852 $\pm$ 0.006 χ^2 /NDF: 3355449.4/115

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -200.977+/-120.171 χ^2/NDF : 20.9/18

Left Out: -10.486+/-78.391 χ^2/NDF :22.5/24

Right Out: -116.280+/-115.094 χ^2/NDF : 17.2/19

Left In: -64.591+/-80.047 χ^2/NDF :37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

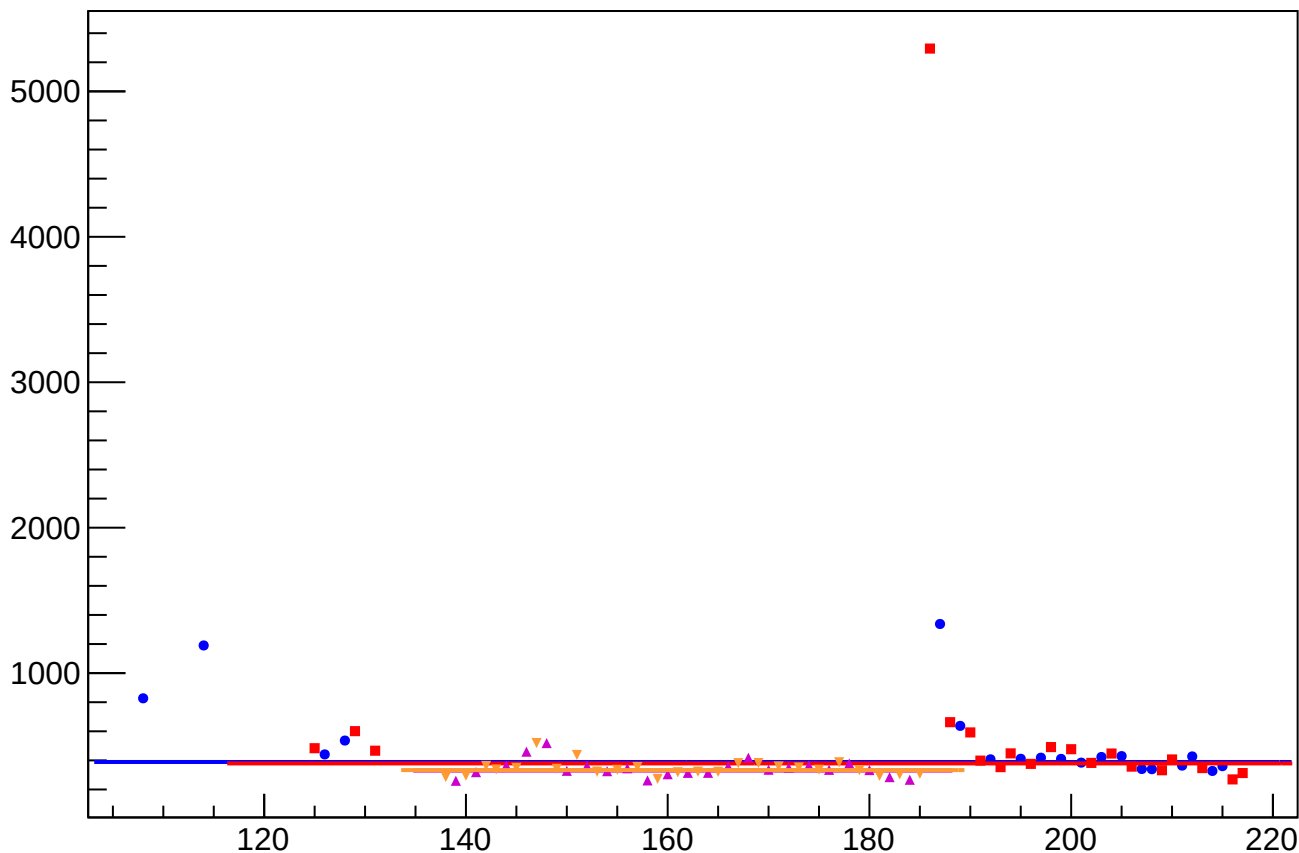
Right: -156.802+/-83.121 χ^2/NDF : 38.3/38

In: -106.507+/-66.620 χ^2/NDF :59.2/41

Out: -44.011+/-64.790 χ^2/NDF :40.3/44

All: -74.389+/-46.447 χ^2/NDF : 99.9/86

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 389.068+/-0.085 χ^2/NDF : 541911.0/18

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 379.093+/-0.081 χ^2/NDF : 1640120.5/19

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

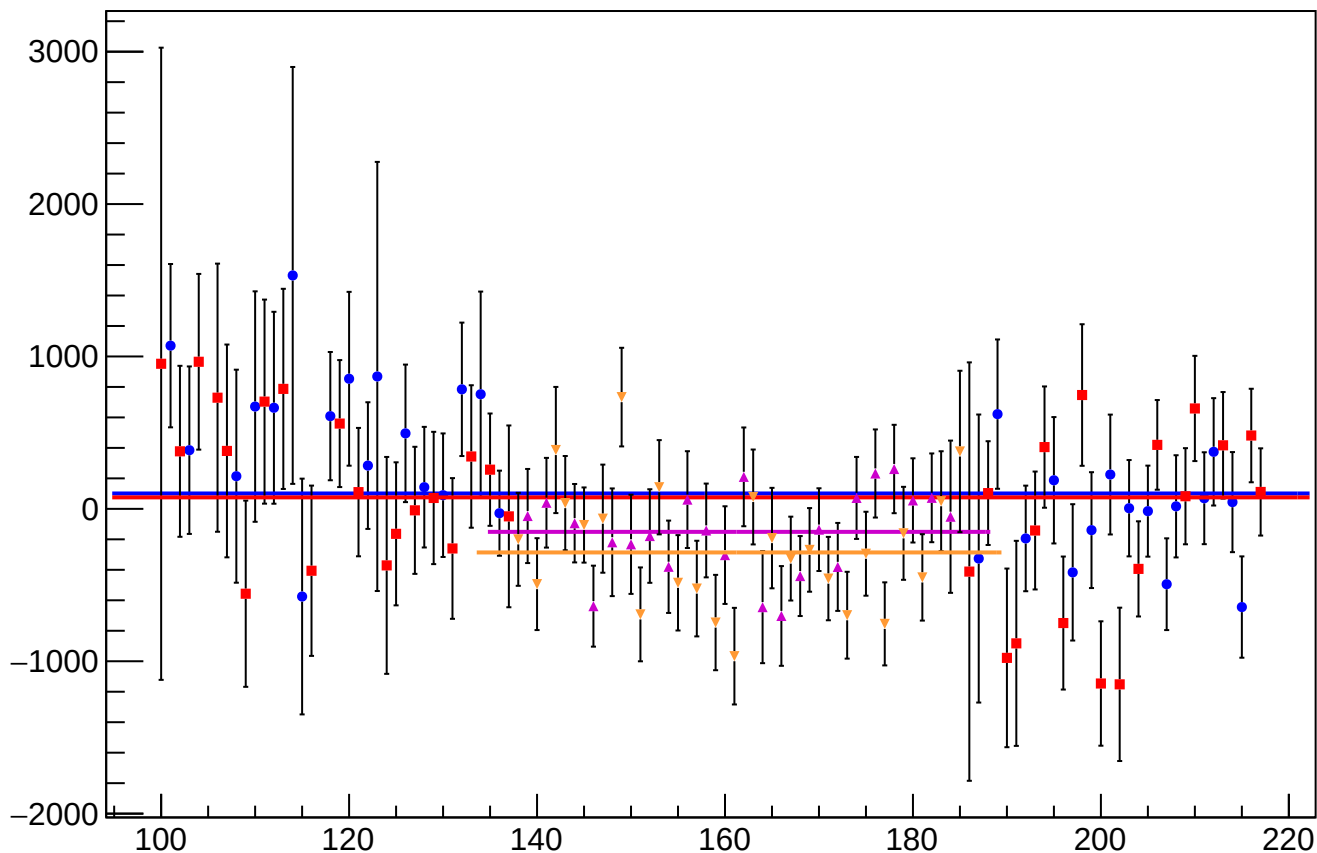
Right: 383.866+/-0.059 χ^2/NDF : 2189219.2/38

In: 348.144+/-0.047 χ^2/NDF : 1672753.2/41

Out: 347.766+/-0.046 χ^2/NDF : 2449152.0/44

All: 347.949+/-0.033 χ^2/NDF : 4121938.3/86

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 100.900 ± 73.657 $\chi^2/\text{NDF}: 28.7/31$

Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$

Right Out: 75.309 ± 73.131 $\chi^2/\text{NDF}: 46.8/35$

Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$

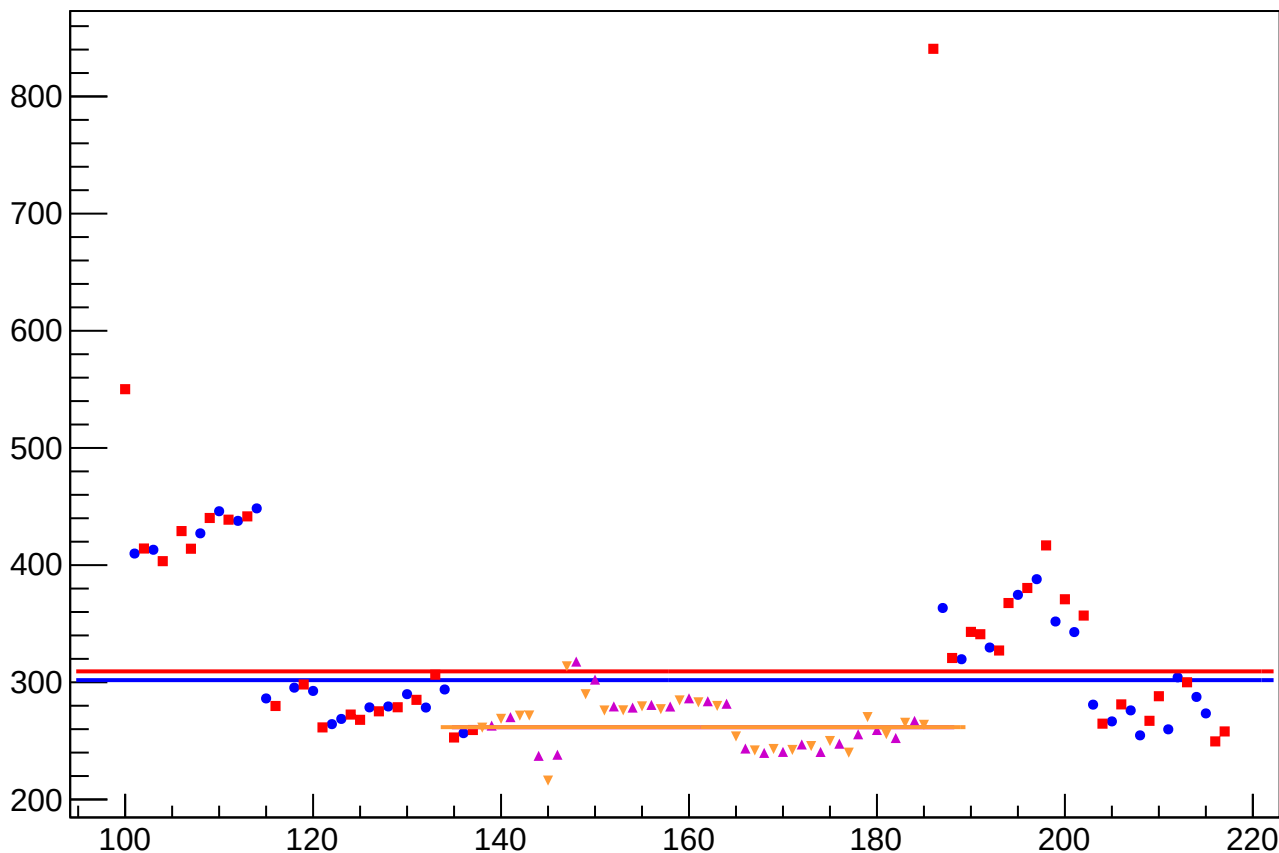
Right: 88.013 ± 51.896 $\chi^2/\text{NDF}: 75.6/67$

In: -44.884 ± 47.796 $\chi^2/\text{NDF}: 54.1/54$

Out: -137.504 ± 46.886 $\chi^2/\text{NDF}: 97.8/60$

All: -92.084 ± 33.471 $\chi^2/\text{NDF}: 153.8/115$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 301.837 $\pm$ 0.052 χ^2 /NDF: 872125.8/31

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF: 233222.6/24

Right Out: 309.325 $\pm$ 0.052 χ^2 /NDF: 1451308.5/35

Left In: 261.637 $\pm$ 0.044 χ^2 /NDF: 228241.3/22

Left: 261.680 $\pm$ 0.031 χ^2 /NDF: 461465.7/47

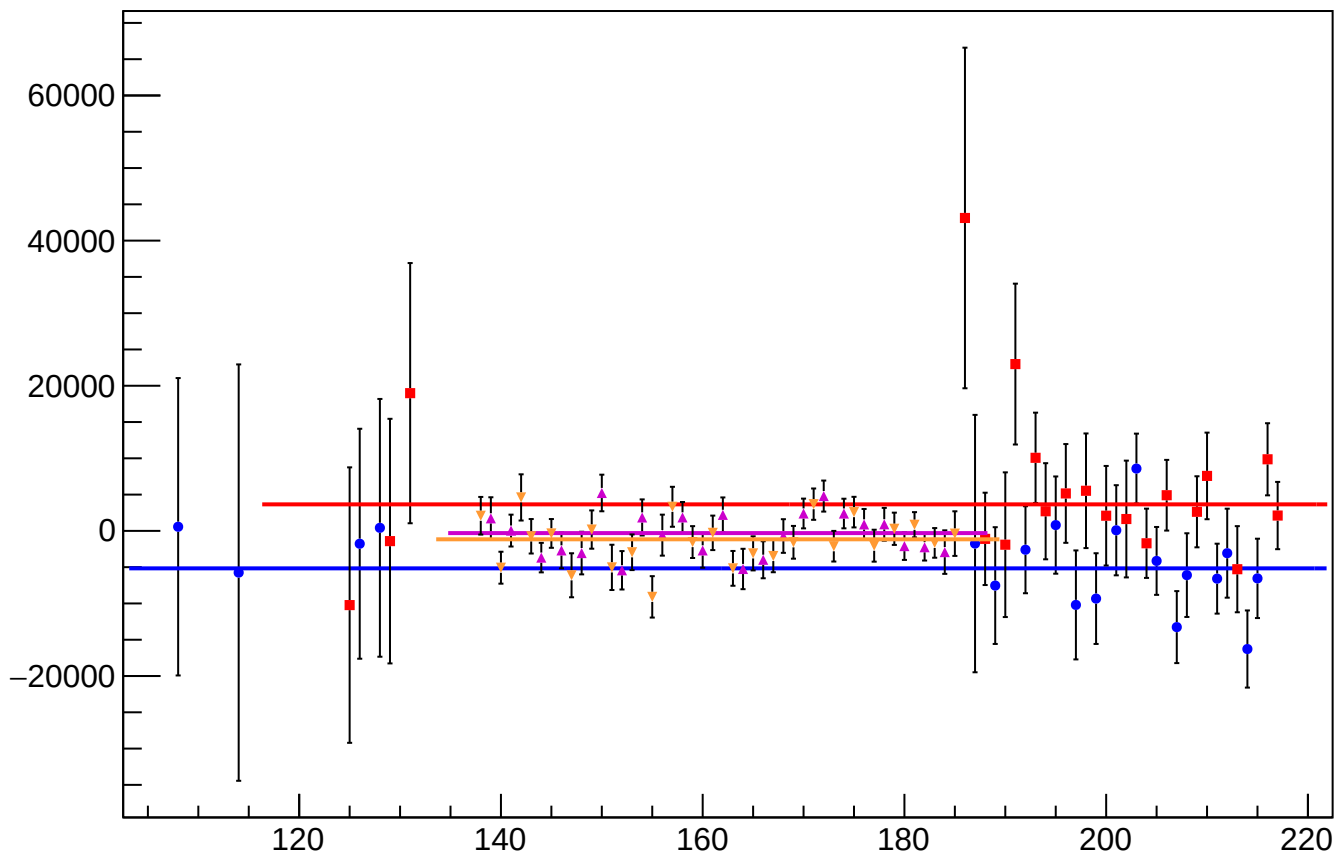
Right: 305.608 $\pm$ 0.037 χ^2 /NDF: 2333843.1/67

In: 278.564 $\pm$ 0.034 χ^2 /NDF: 1445263.4/54

Out: 281.289 $\pm$ 0.033 χ^2 /NDF: 2183633.1/60

All: 279.953 $\pm$ 0.024 χ^2 /NDF: 3632208.8/115

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5164.167+/-1496.132 χ^2/NDF : 18.5/18

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 3655.109+/-1493.449 χ^2/NDF : 15.1/19

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

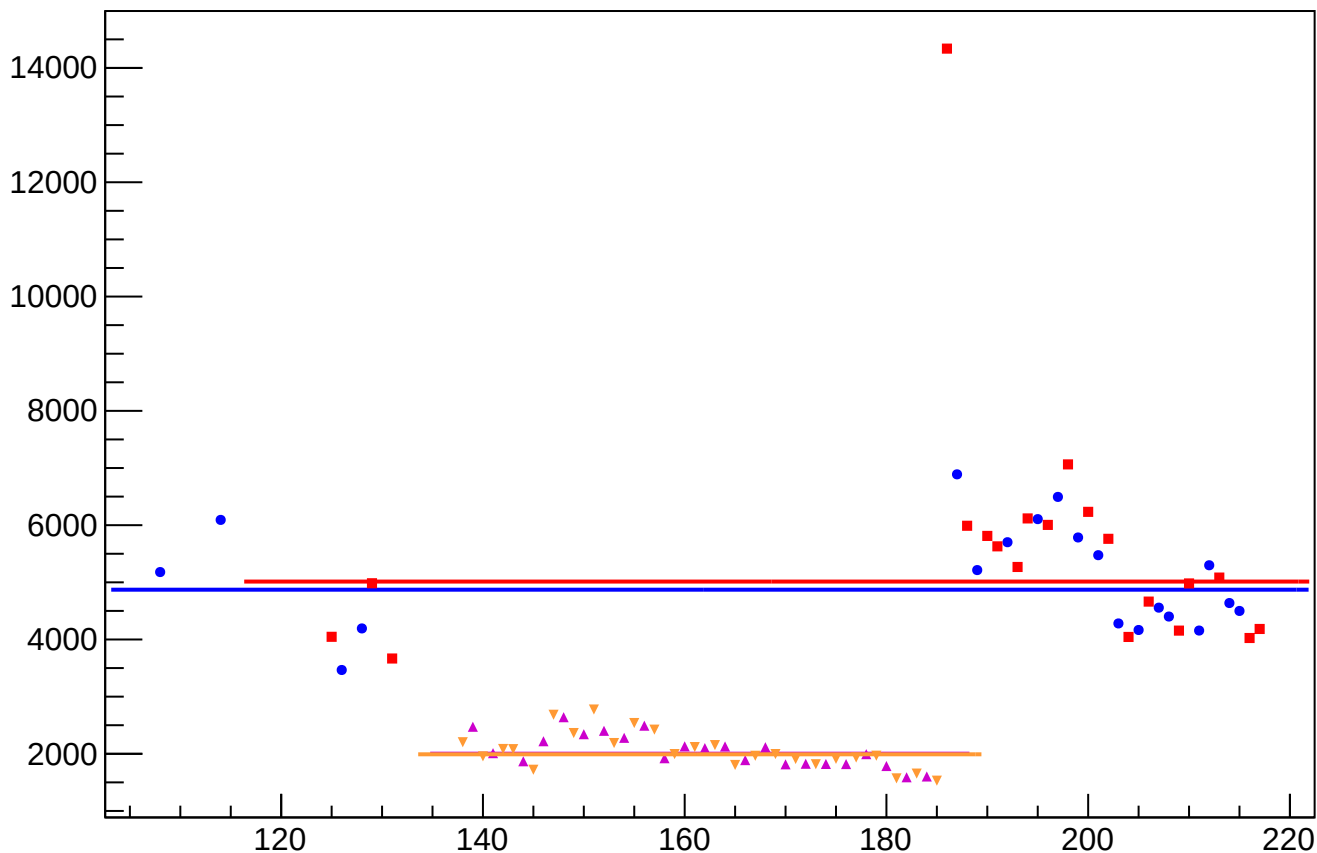
Right: -746.617+/-1056.975 χ^2/NDF : 51.0/38

In: -764.393+/-460.312 χ^2/NDF : 63.4/41

Out: -729.014+/-447.486 χ^2/NDF : 63.4/44

All: -746.204+/-320.859 χ^2/NDF : 126.7/86

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4871.195+/-1.058 χ^2/NDF : 477311.9/18

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5013.495+/-1.056 χ^2/NDF : 1012657.6/19

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

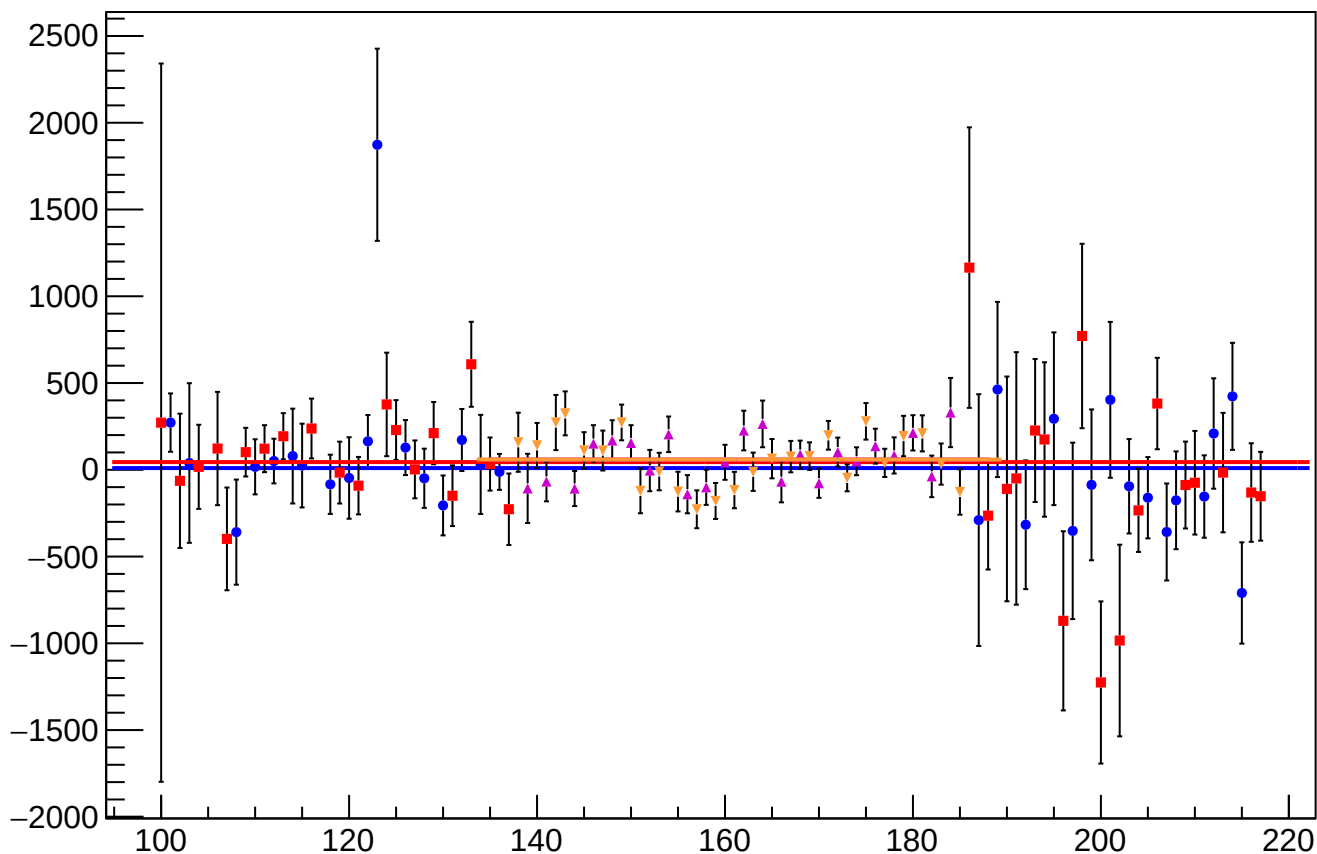
Right: 4942.473+/-0.747 χ^2/NDF : 1499032.1/38

In: 2273.736+/-0.325 χ^2/NDF : 7721748.2/41

Out: 2262.454+/-0.316 χ^2/NDF : 9194809.9/44

All: 2267.936+/-0.227 χ^2/NDF : 16917175.8/86

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 9.827 ± 38.821 χ^2/NDF : 34.9/31

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 44.427 ± 38.549 χ^2/NDF : 41.3/35

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

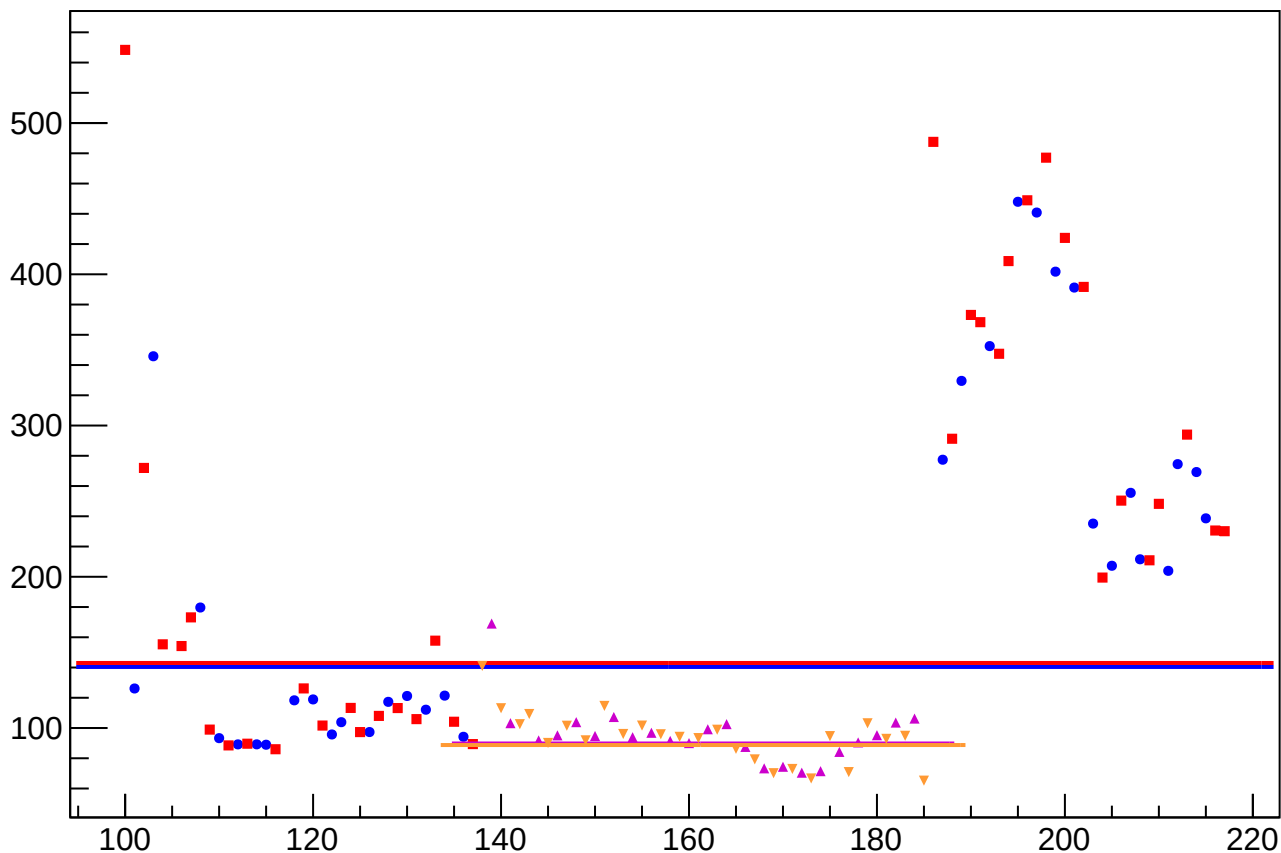
Right: 27.249 ± 27.354 χ^2/NDF : 76.6/67

In: 47.290 ± 19.088 χ^2/NDF : 65.5/54

Out: 55.618 ± 18.534 χ^2/NDF : 88.4/60

All: 51.576 ± 13.297 χ^2/NDF : 154.0/115

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 140.373+/-0.027 χ^2/NDF : 7761200.0/31

Left Out: 88.748+/-0.015 χ^2/NDF : 1079338.8/24

Right Out: 143.004+/-0.027 χ^2/NDF : 8934593.2/35

Left In: 89.766+/-0.016 χ^2/NDF : 885818.0/22

Left: 89.238+/-0.011 χ^2/NDF : 1967390.0/47

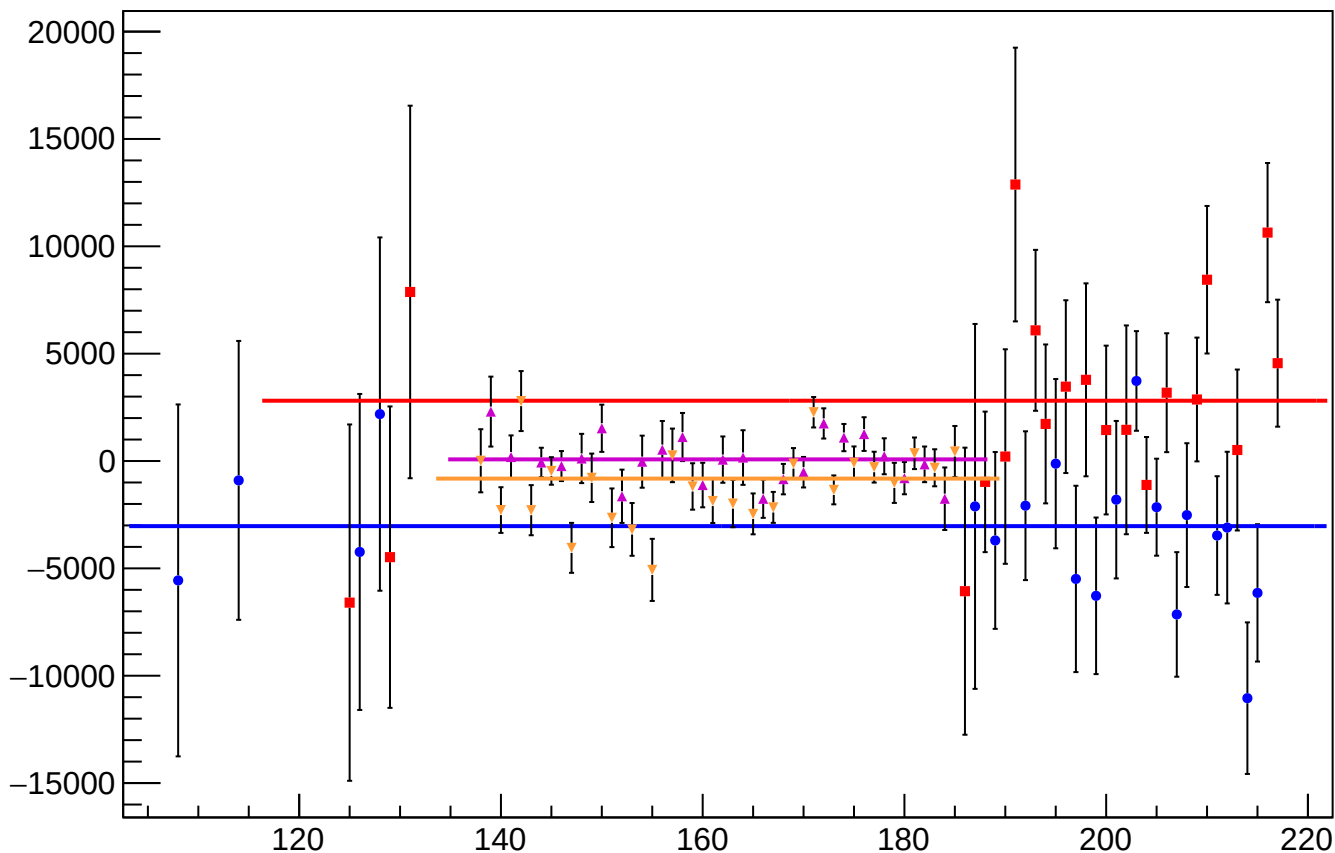
Right: 141.698+/-0.019 χ^2/NDF : 16700418.5/67

In: 102.001+/-0.013 χ^2/NDF : 11224088.9/54

Out: 101.290+/-0.013 χ^2/NDF : 13059963.5/60

All: 101.635+/-0.009 χ^2/NDF : 24285480.4/117

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3033.129+/-823.734 χ^2/NDF : 19.3/18

Left Out: -818.877+/-184.464 χ^2/NDF : 68.2/24

Right Out: 2808.301+/-842.786 χ^2/NDF : 22.0/19

Left In: 76.204+/-186.651 χ^2/NDF : 28.3/22

Left: -376.610+/-131.202 χ^2/NDF : 108.1/47

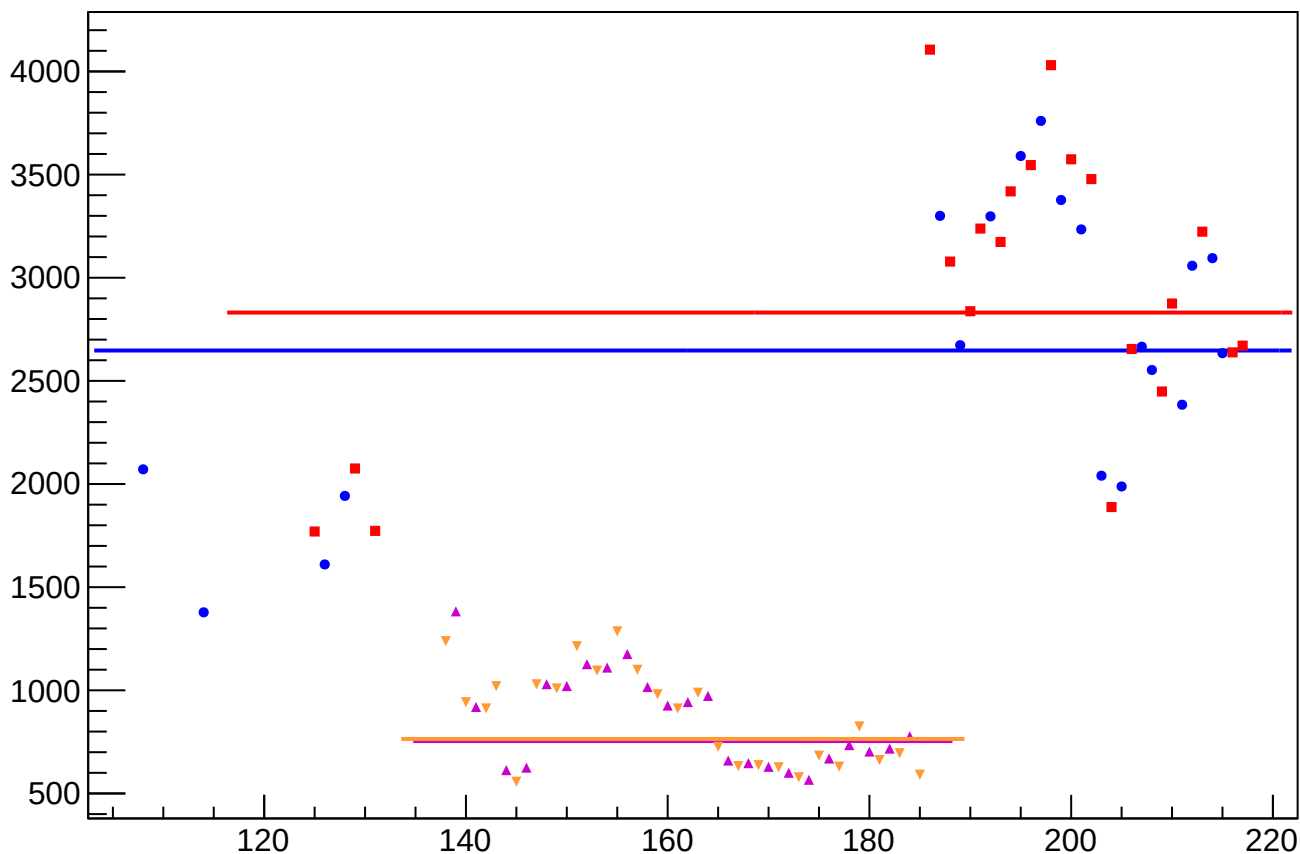
Right: -179.184+/-589.088 χ^2/NDF : 65.9/38

In: -75.644+/-182.036 χ^2/NDF : 61.1/41

Out: -653.057+/-180.198 χ^2/NDF : 107.9/44

All: -367.280+/-128.064 χ^2/NDF : 174.2/86

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2647.238+/-0.582 χ^2/NDF : 986281.0/18

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2831.201+/-0.596 χ^2/NDF : 992770.5/19

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

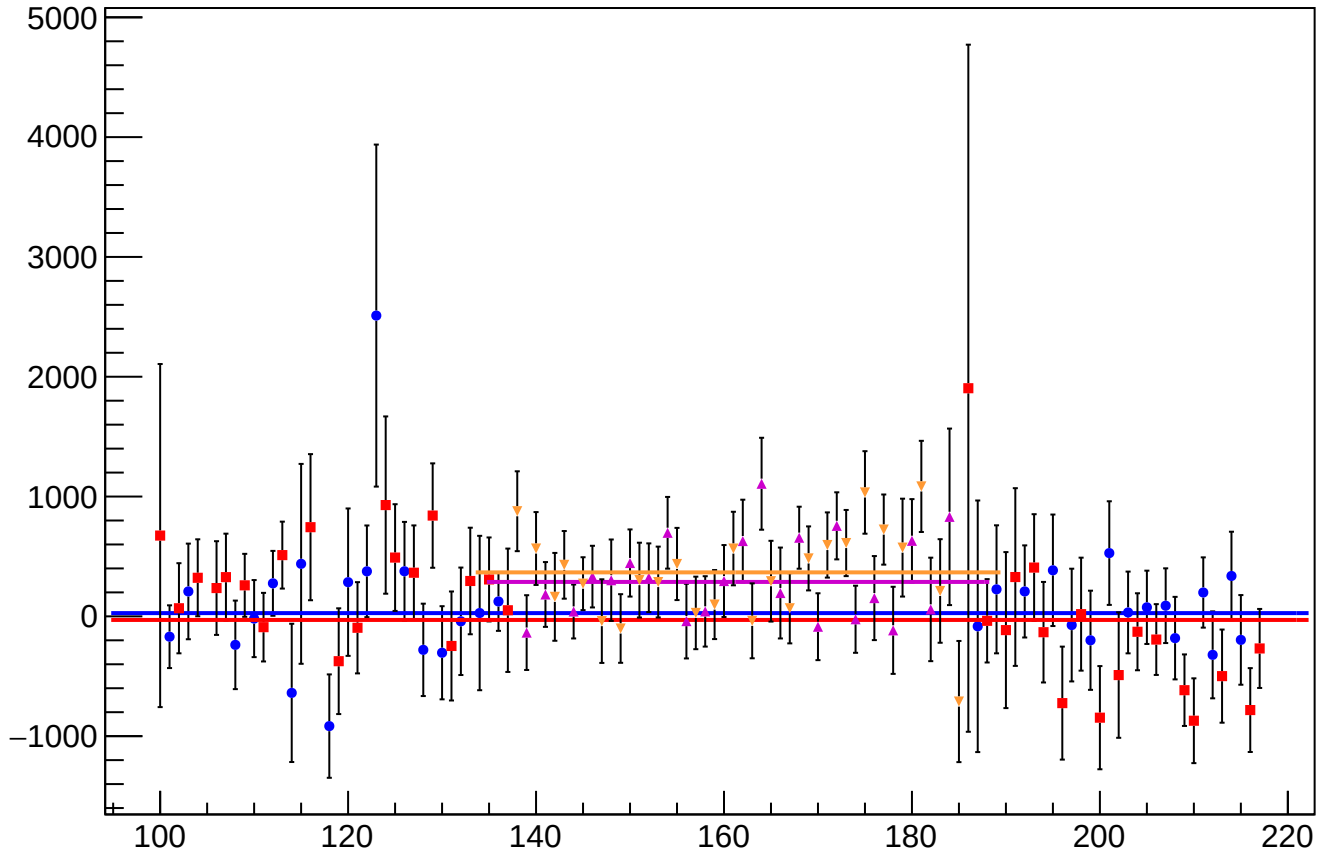
Right: 2737.117+/-0.417 χ^2/NDF : 2027786.7/38

In: 846.484+/-0.129 χ^2/NDF : 13048356.9/41

Out: 858.771+/-0.127 χ^2/NDF : 14788215.9/44

All: 852.689+/-0.091 χ^2/NDF : 27841174.9/86

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 27.062+/-67.781 χ^2/NDF : 20.2/31

Left Out: 367.028+/-61.943 χ^2/NDF : 28.2/24

Right Out: -30.008+/-65.713 χ^2/NDF : 44.7/35

Left In: 287.246+/-64.141 χ^2/NDF : 23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

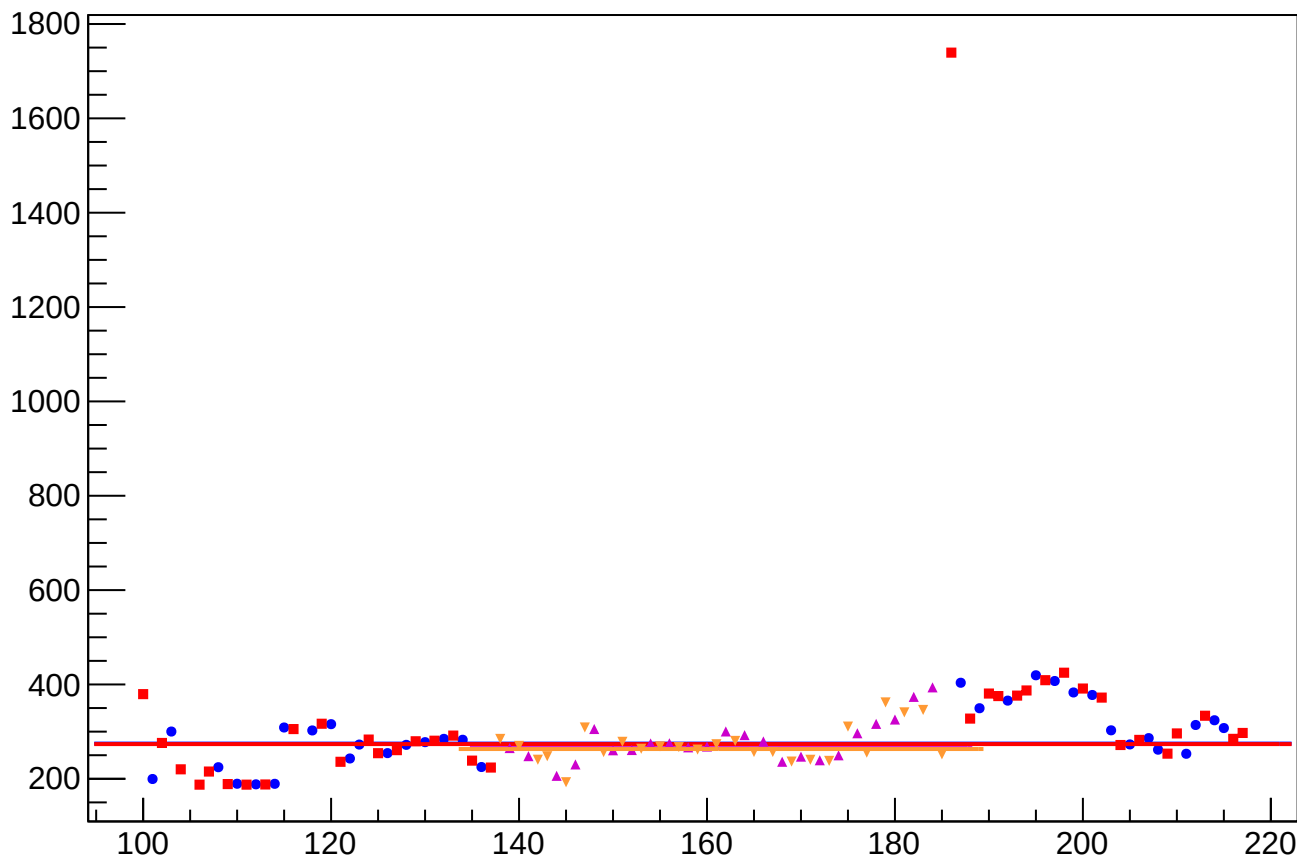
Right: -2.357+/-47.181 χ^2/NDF : 65.3/67

In: 164.329+/-46.588 χ^2/NDF : 51.9/54

Out: 180.225+/-45.074 χ^2/NDF : 92.3/60

All: 172.540+/-32.394 χ^2/NDF : 144.2/115

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 274.600 $\pm$ 0.048 χ^2 /NDF: 1609375.5/31

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 273.571 $\pm$ 0.046 χ^2 /NDF: 2470547.9/35

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

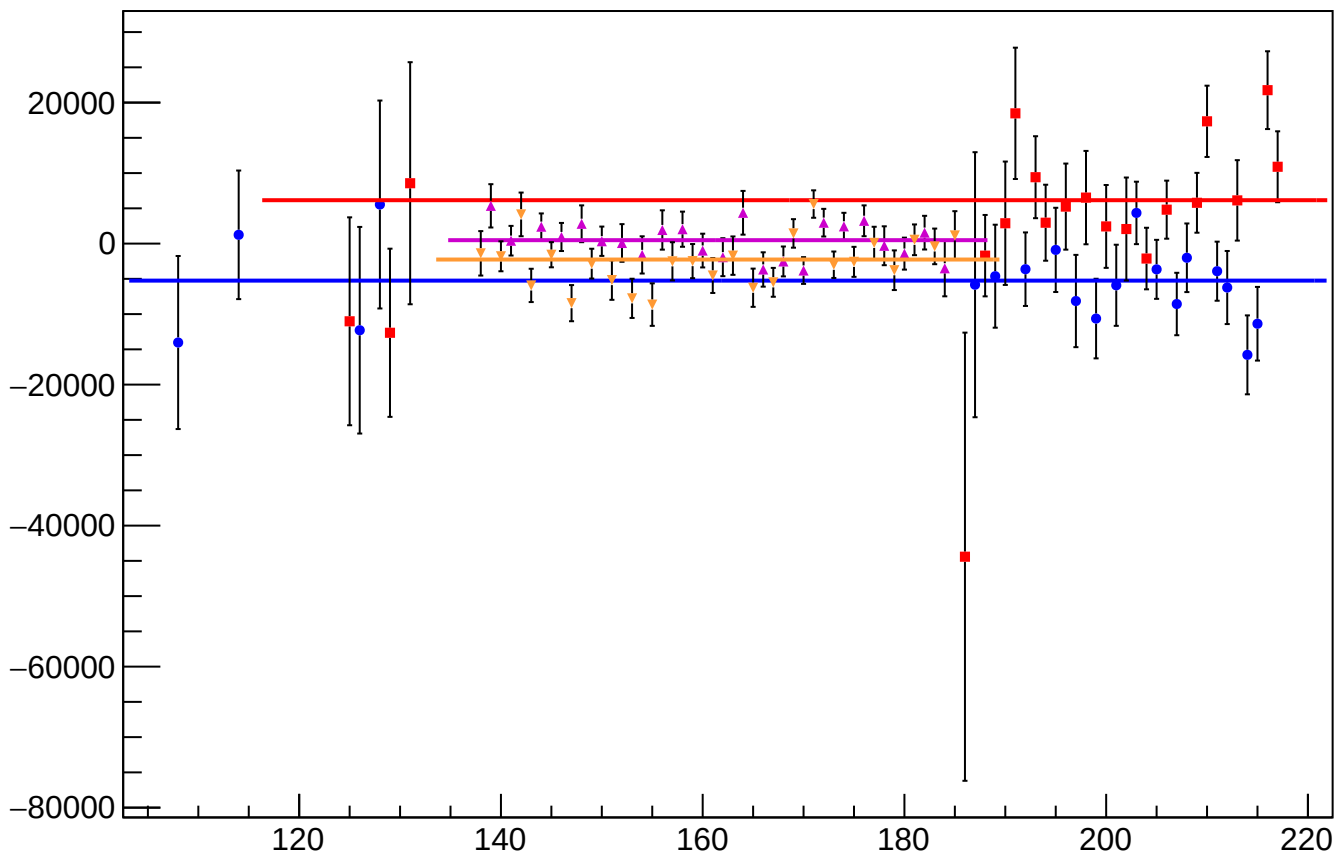
Right: 274.069 $\pm$ 0.033 χ^2 /NDF: 4080161.2/67

In: 269.495 $\pm$ 0.033 χ^2 /NDF: 2239906.8/54

Out: 268.028 $\pm$ 0.032 χ^2 /NDF: 3139645.5/60

All: 268.737 $\pm$ 0.023 χ^2 /NDF: 5380576.3/115

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5250.965 $\pm$ 1332.376 χ^2 /NDF: 14.4/18

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 6154.732 $\pm$ 1359.352 χ^2 /NDF: 29.0/19

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

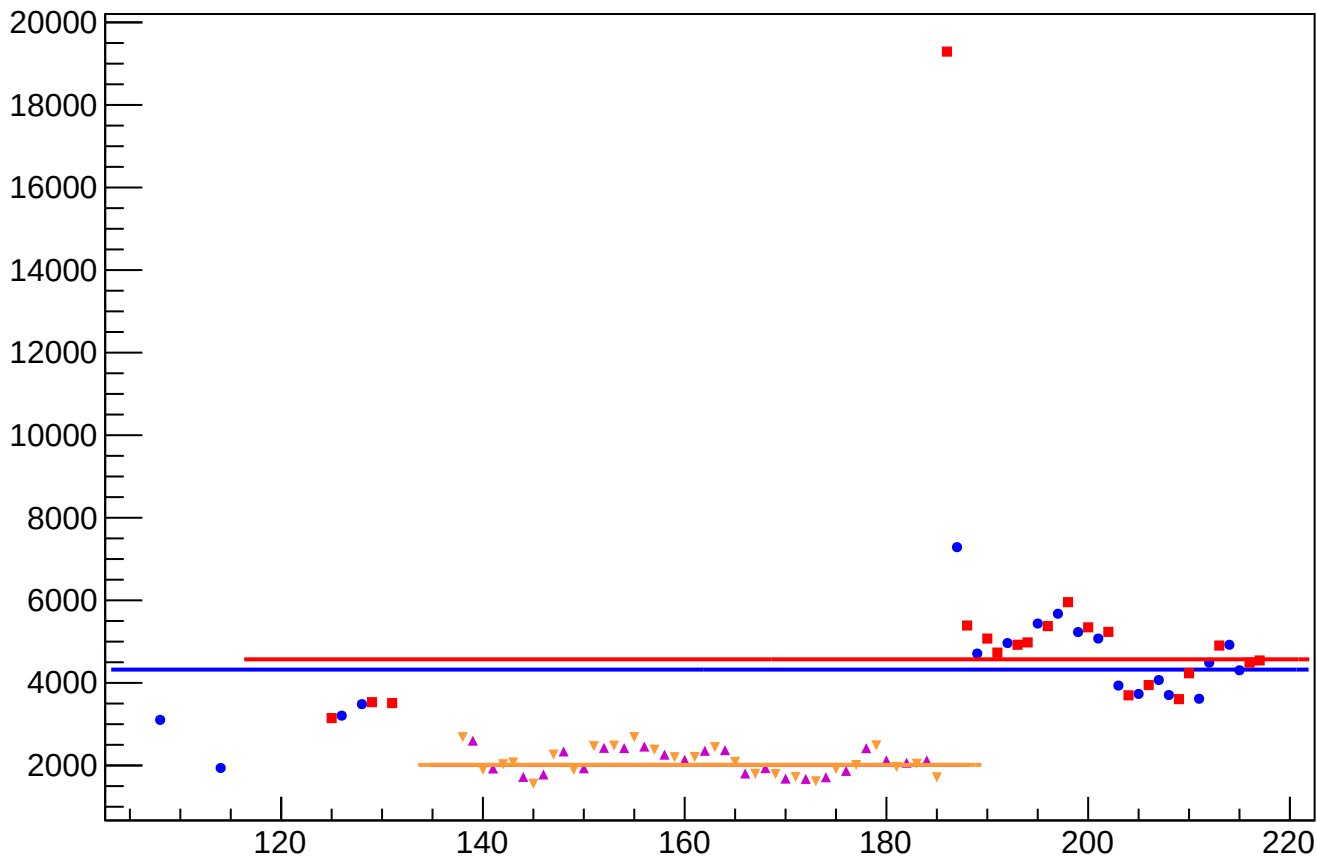
Right: 337.590 $\pm$ 951.526 χ^2 /NDF: 79.4/38

In: -191.627 $\pm$ 457.789 χ^2 /NDF:55.5/41

Out: -1343.368 $\pm$ 448.694 χ^2 /NDF:115.5/44

All: -779.051 $\pm$ 320.442 χ^2 /NDF: 174.3/86

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4322.058+/-0.942 χ^2/NDF : 677074.0/18

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4571.178+/-0.961 χ^2/NDF : 955482.0/19

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

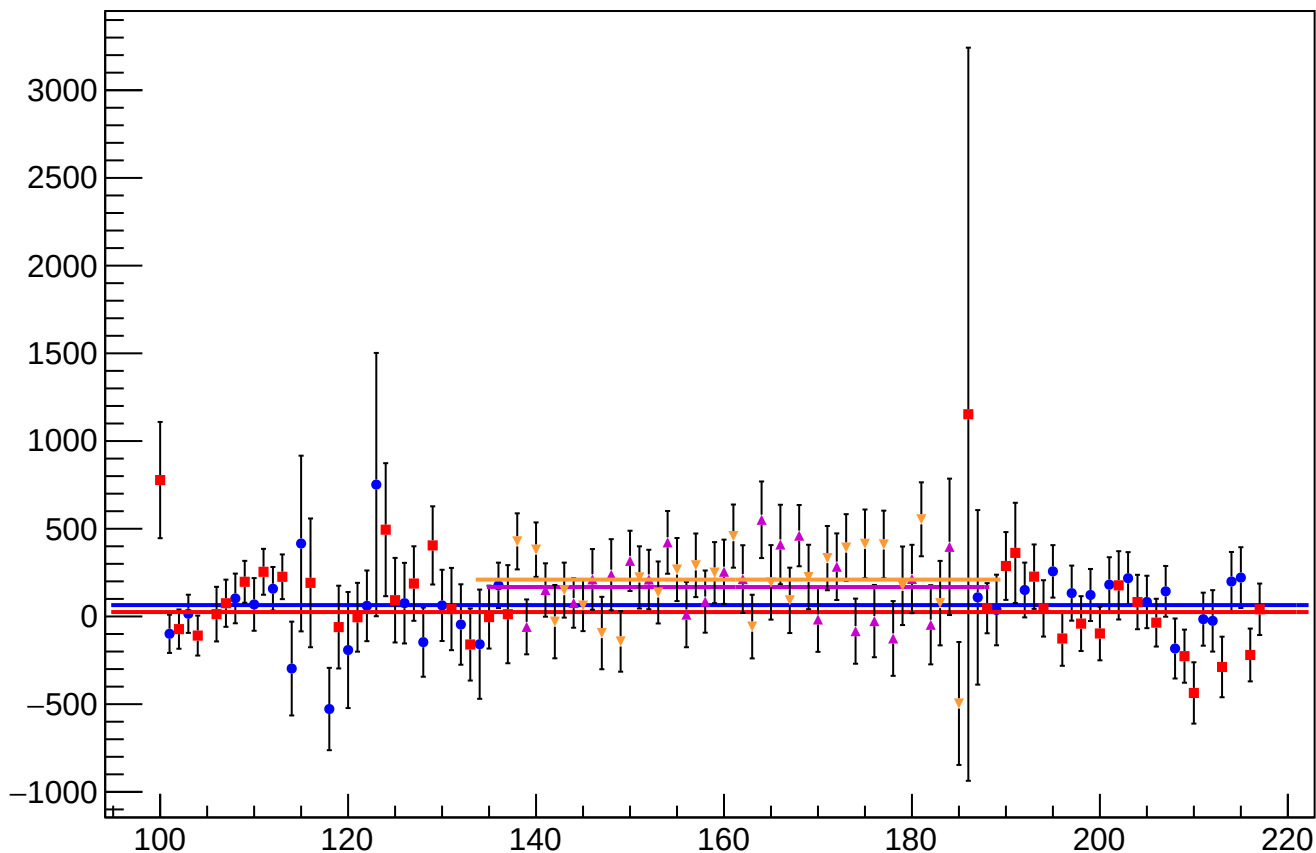
Right: 4444.121+/-0.673 χ^2/NDF : 1666814.7/38

In: 2285.807+/-0.324 χ^2/NDF : 6635740.5/41

Out: 2292.705+/-0.317 χ^2/NDF : 8097124.4/44

All: 2289.325+/-0.227 χ^2/NDF : 14733096.4/86

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 64.719 $\pm$ 29.942 χ^2/NDF : 24.2/31

Left Out: 210.086 $\pm$ 37.093 χ^2/NDF : 27.5/24

Right Out: 25.139 $\pm$ 28.169 χ^2/NDF : 44.5/35

Left In: 167.822 $\pm$ 38.718 χ^2/NDF : 21.1/22

Left: 189.859 $\pm$ 26.785 χ^2/NDF : 49.3/47

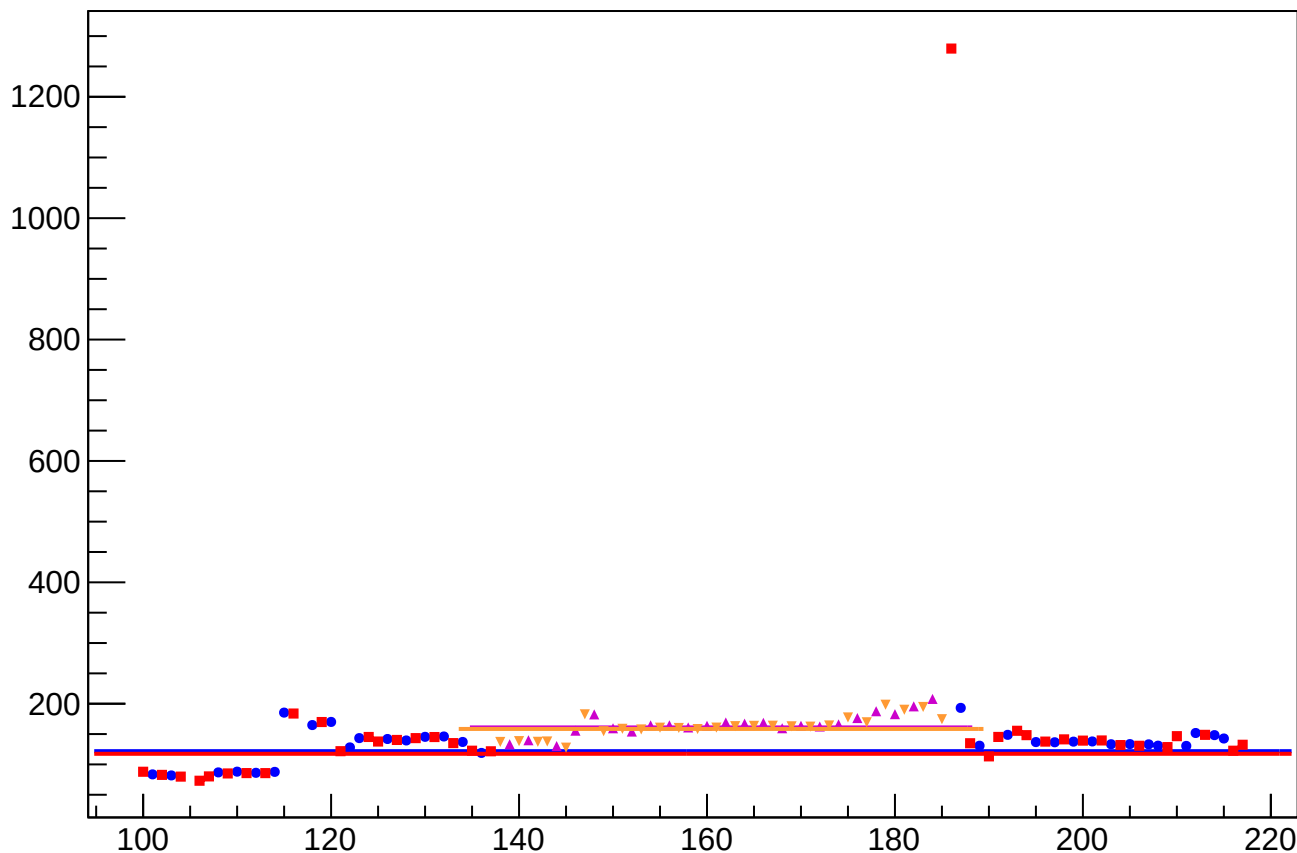
Right: 43.723 $\pm$ 20.517 χ^2/NDF : 69.7/67

In: 103.304 $\pm$ 23.686 χ^2/NDF : 49.8/54

Out: 92.786 $\pm$ 22.433 χ^2/NDF : 87.8/60

All: 97.760 $\pm$ 16.288 χ^2/NDF : 137.7/115

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 121.824+/-0.021 χ^2/NDF : 1538542.9/31

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 117.488+/-0.020 χ^2/NDF : 2578159.0/35

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

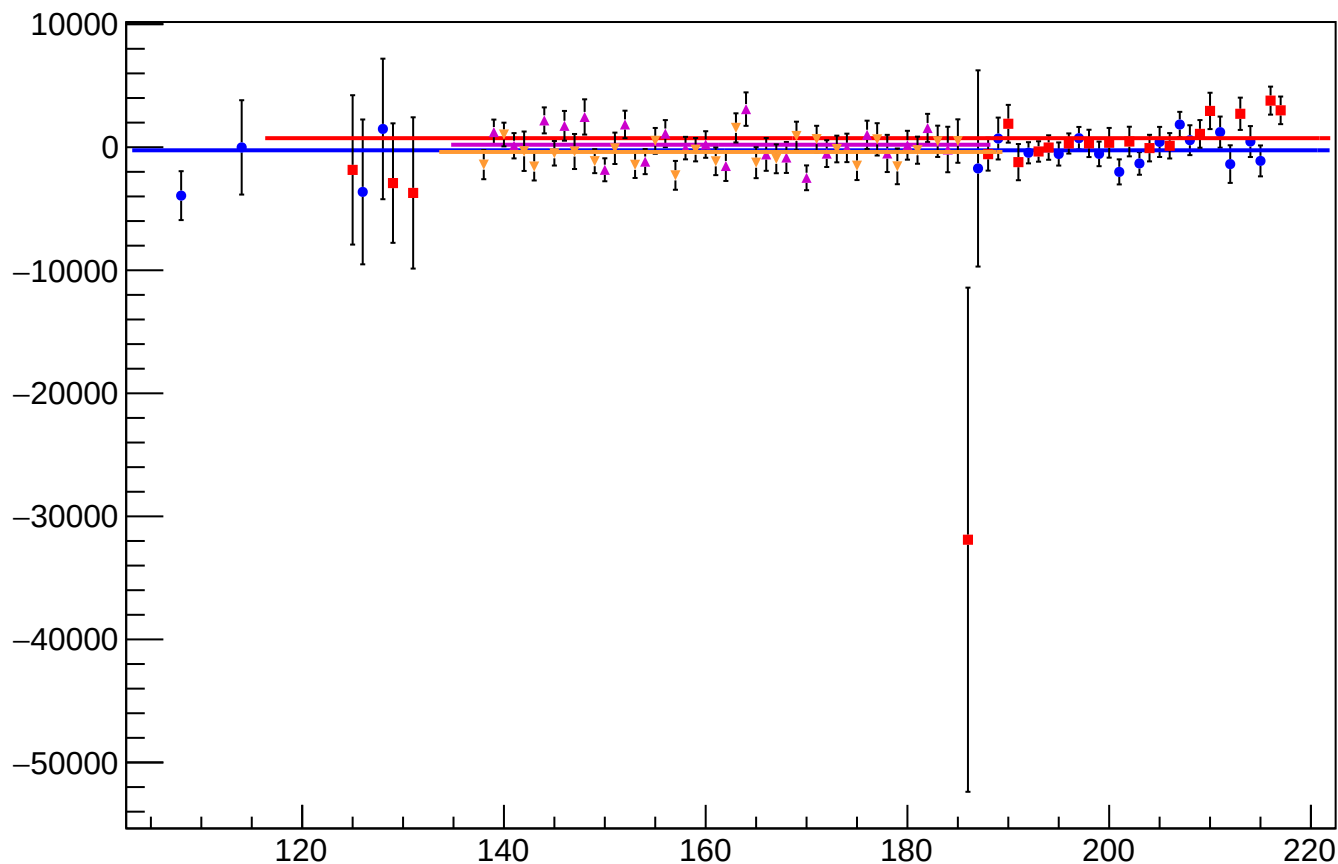
Right: 119.524+/-0.015 χ^2/NDF : 4138948.8/67

In: 136.466+/-0.017 χ^2/NDF : 3196110.2/54

Out: 132.467+/-0.016 χ^2/NDF : 4558543.3/60

All: 134.358+/-0.012 χ^2/NDF : 7784697.0/115

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -249.338+/-286.566 χ^2/NDF : 17.5/18

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 735.817+/-278.725 χ^2/NDF : 26.7/19

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

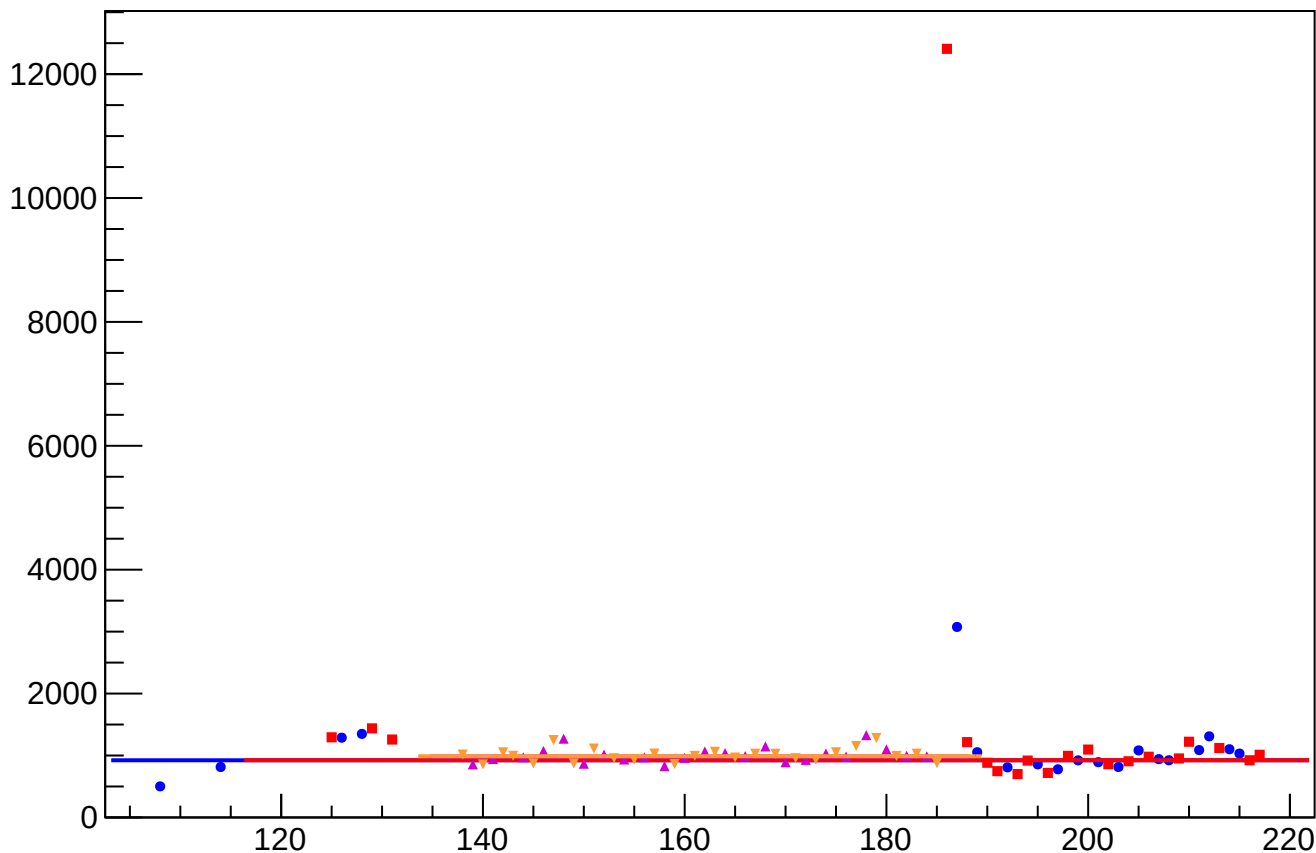
Right: 256.902+/-199.803 χ^2/NDF : 50.3/38

In: 18.396+/-182.843 χ^2/NDF : 54.5/41

Out: 73.318+/-178.237 χ^2/NDF : 54.3/44

All: 46.558+/-127.630 χ^2/NDF : 108.9/86

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 923.103+/-0.203 χ^2/NDF : 644875.5/18

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 924.647+/-0.197 χ^2/NDF : 1261677.6/19

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

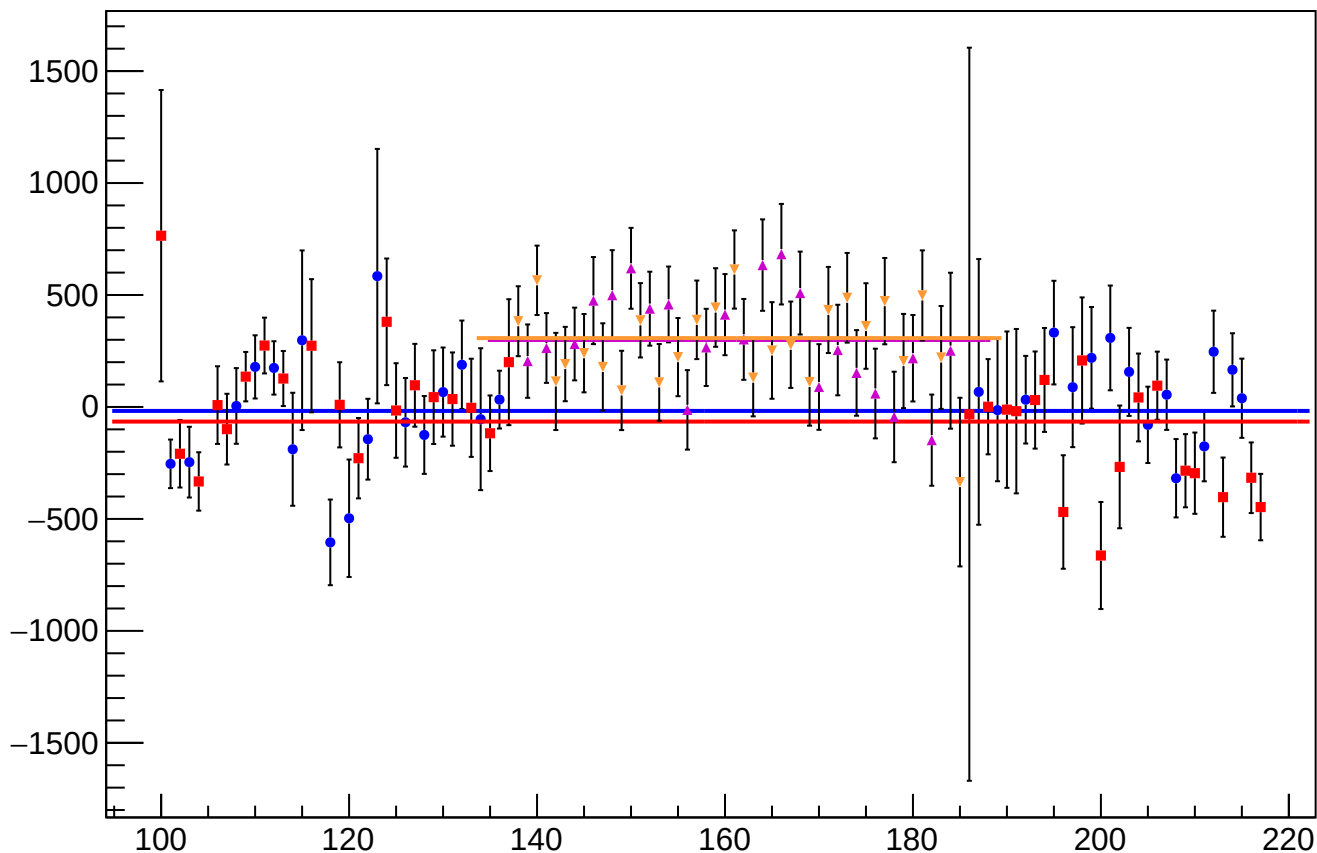
Right: 923.896+/-0.141 χ^2/NDF : 1906582.9/38

In: 959.145+/-0.129 χ^2/NDF : 1114502.1/41

Out: 962.016+/-0.126 χ^2/NDF : 1699458.3/44

All: 960.617+/-0.090 χ^2/NDF : 2814213.1/86

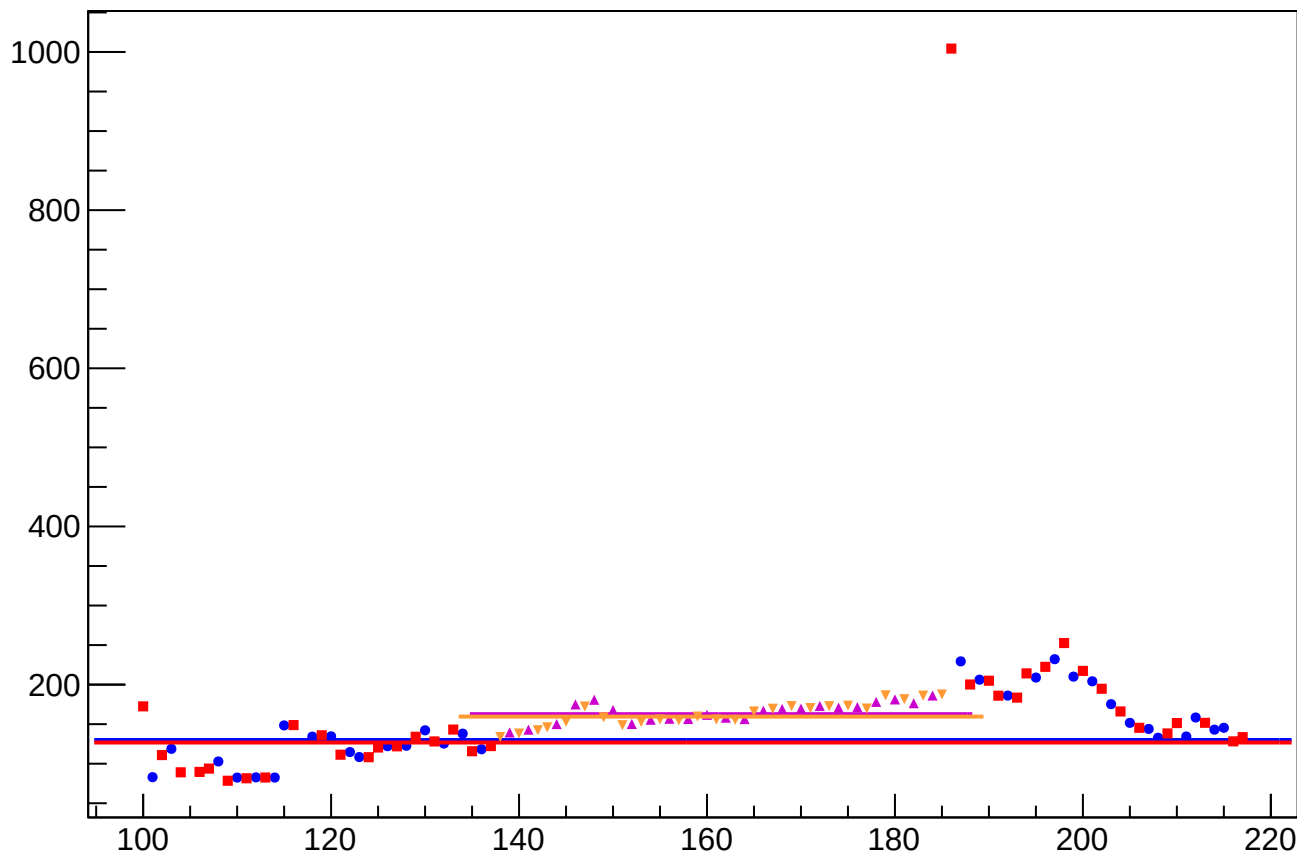
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -17.663 ± 32.601 χ^2/NDF : 42.8/31
 Left Out: 307.487 ± 37.278 χ^2/NDF : 20.7/24
 Right Out: -65.315 ± 31.137 χ^2/NDF : 56.2/35
 Left In: 299.192 ± 39.009 χ^2/NDF : 28.5/22

Left: 303.528 ± 26.951 χ^2/NDF : 49.3/47
 Right: -42.583 ± 22.517 χ^2/NDF : 100.2/67
 In: 112.638 ± 25.015 χ^2/NDF : 110.2/54
 Out: 87.892 ± 23.897 χ^2/NDF : 135.8/60
 All: 99.699 ± 17.280 χ^2/NDF : 246.5/115

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 129.909 $\pm$ 0.023 χ^2 /NDF: 2649349.6/31

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 126.806 $\pm$ 0.022 χ^2 /NDF: 4029877.7/35

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

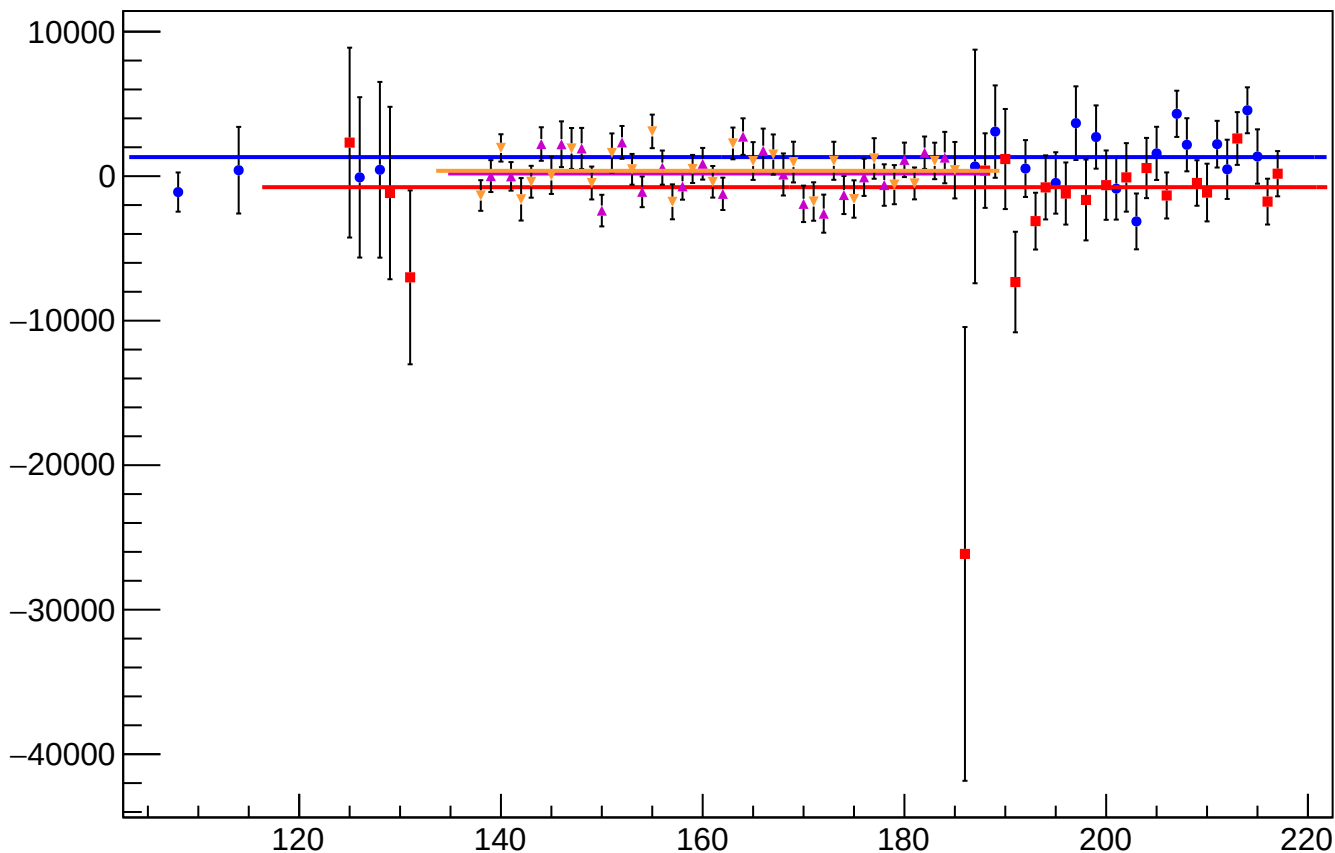
Right: 128.286 $\pm$ 0.016 χ^2 /NDF: 6688705.6/67

In: 143.355 $\pm$ 0.018 χ^2 /NDF:3676188.5/54

Out: 140.270 $\pm$ 0.017 χ^2 /NDF:5227601.5/60

All: 141.742 $\pm$ 0.012 χ^2 /NDF: 8919698.0/115

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1318.670+/-474.738 χ^2/NDF : 20.5/18

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -762.247+/-503.748 χ^2/NDF : 14.4/19

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

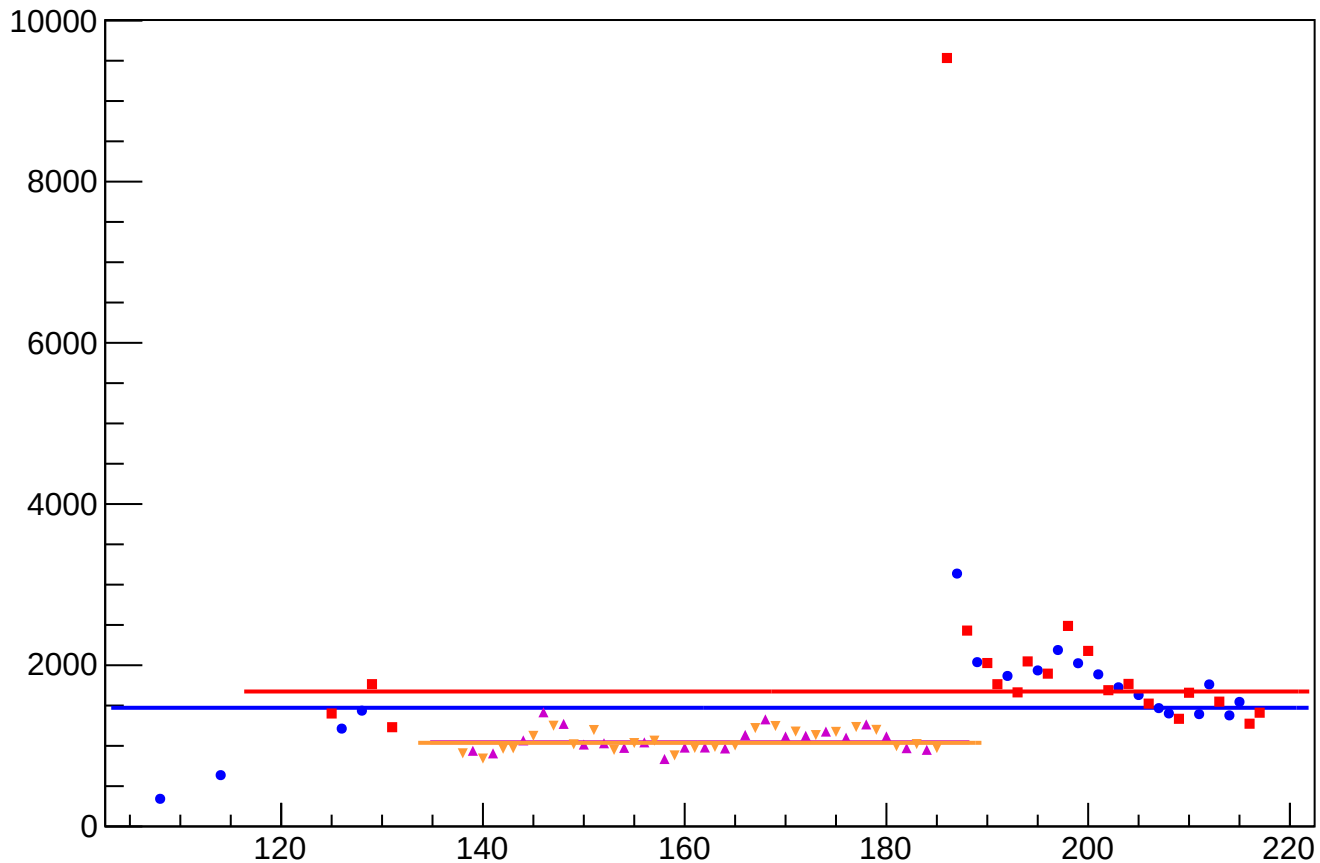
Right: 339.852+/-345.491 χ^2/NDF : 43.9/38

In: 433.135+/-222.763 χ^2/NDF :61.4/41

Out: 155.525+/-219.246 χ^2/NDF :49.0/44

All: 292.121+/-156.259 χ^2/NDF : 111.2/86

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1472.279+/-0.336 χ^2/NDF : 2336553.0/18

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1674.290+/-0.356 χ^2/NDF : 1352307.8/19

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

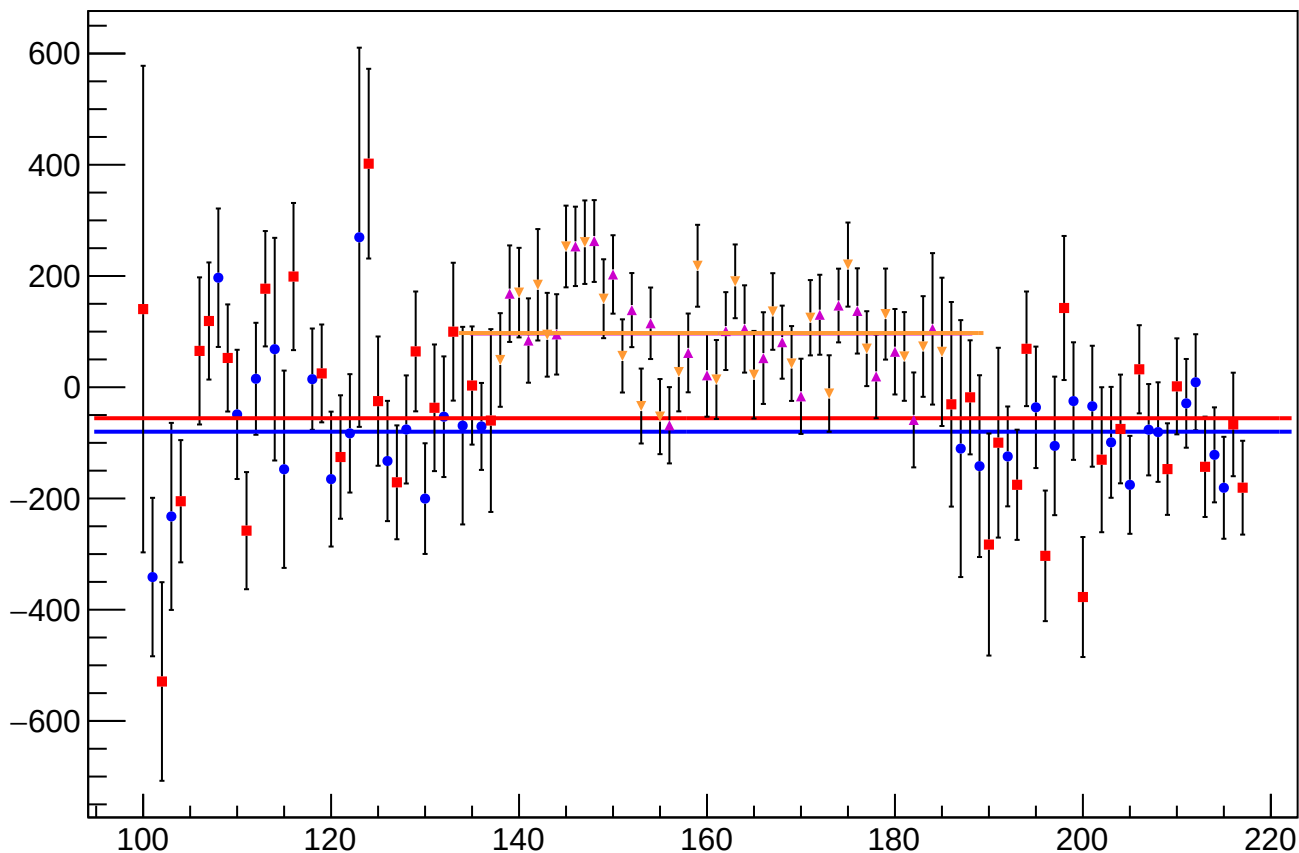
Right: 1567.301+/-0.244 χ^2/NDF : 3859200.8/38

In: 1138.880+/-0.158 χ^2/NDF : 4144770.1/41

Out: 1158.277+/-0.155 χ^2/NDF : 4436279.0/44

All: 1148.733+/-0.110 χ^2/NDF : 8588752.2/86

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -79.950 +/- 18.933 χ^2/NDF : 20.4/31

Left Out: 97.445 +/- 14.880 χ^2/NDF : 36.0/24

Right Out: -55.717 +/- 18.366 χ^2/NDF : 65.8/35

Left In: 96.704 +/- 15.369 χ^2/NDF : 29.2/22

Left: 97.087 +/- 10.690 χ^2/NDF : 65.2/47

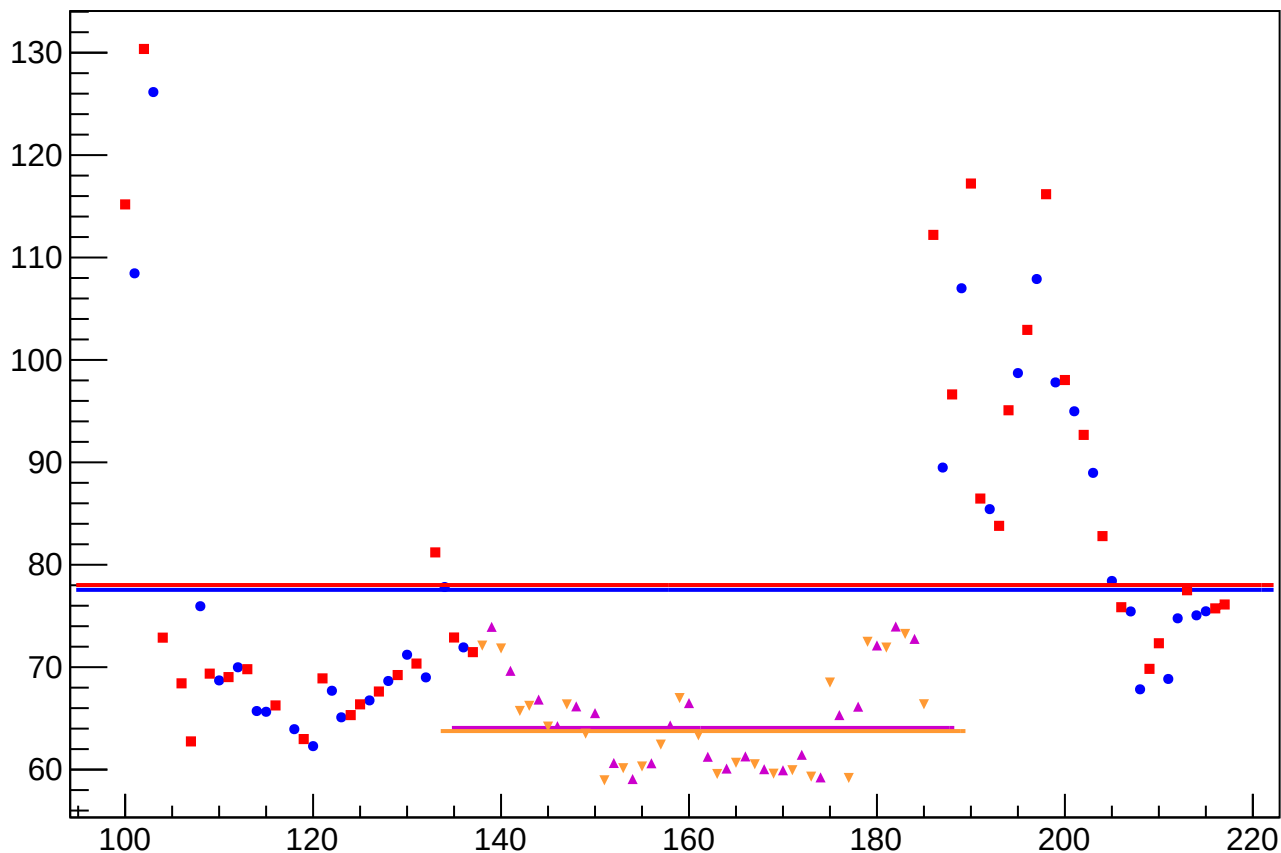
Right: -67.465 +/- 13.183 χ^2/NDF : 87.0/67

In: 26.533 +/- 11.933 χ^2/NDF : 102.1/54

Out: 36.750 +/- 11.562 χ^2/NDF : 143.8/60

All: 31.803 +/- 8.303 χ^2/NDF : 246.3/115

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.549 $\pm$ 0.013 χ^2 /NDF: 948524.0/31

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.021 $\pm$ 0.013 χ^2 /NDF: 1131181.2/35

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

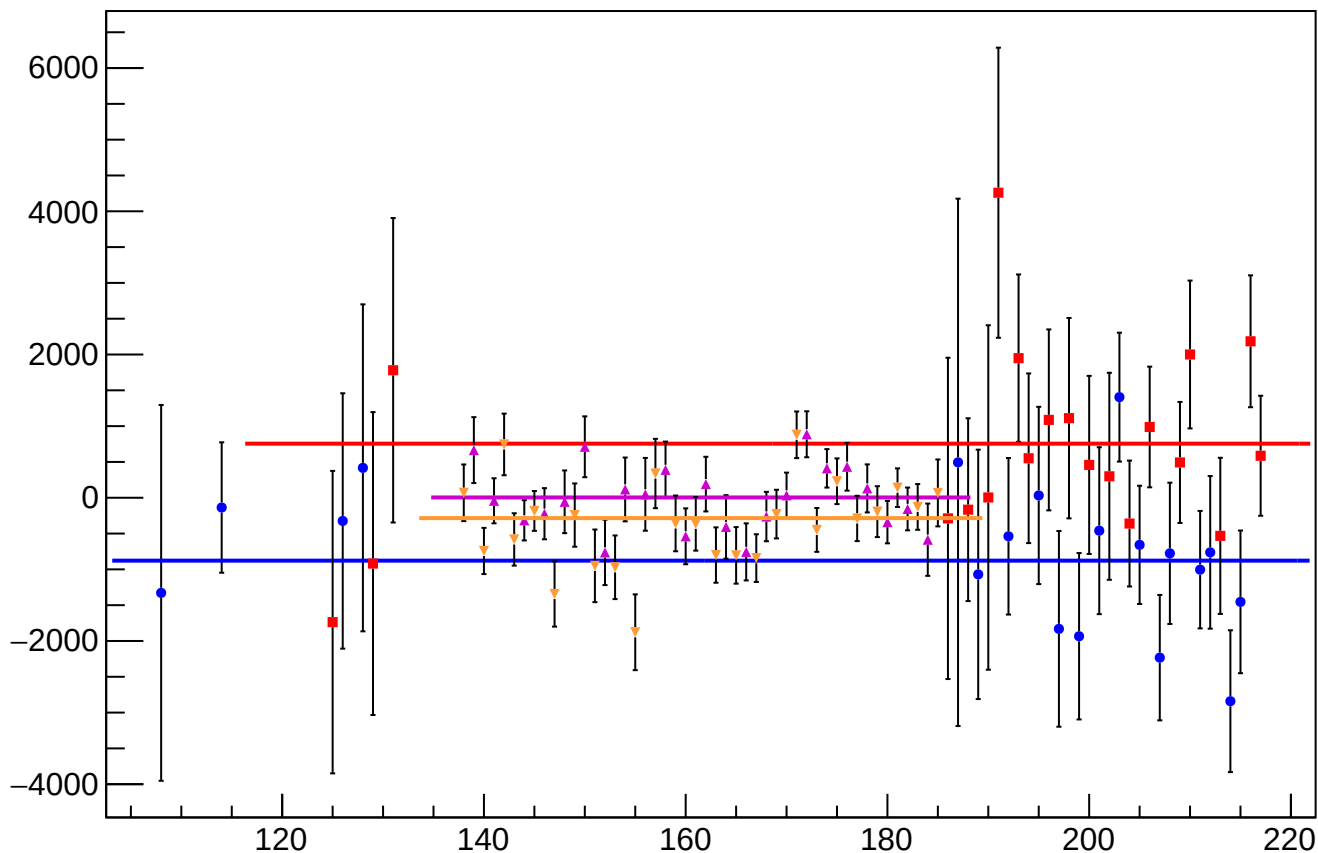
Right: 77.792 $\pm$ 0.009 χ^2 /NDF: 2080346.2/67

In: 69.423 $\pm$ 0.008 χ^2 /NDF: 1724358.4/54

Out: 69.412 $\pm$ 0.008 χ^2 /NDF: 2051913.6/60

All: 69.418 $\pm$ 0.006 χ^2 /NDF: 3776272.9/115

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -878.290 $\pm$ 256.561 χ^2 /NDF: 16.6/18

Left Out: -284.304 $\pm$ 72.732 χ^2 /NDF:55.1/24

Right Out: 755.279 $\pm$ 266.371 χ^2 /NDF: 14.5/19

Left In: 4.037 $\pm$ 75.084 χ^2 /NDF:32.4/22

Left: -144.720 $\pm$ 52.241 χ^2 /NDF: 95.0/47

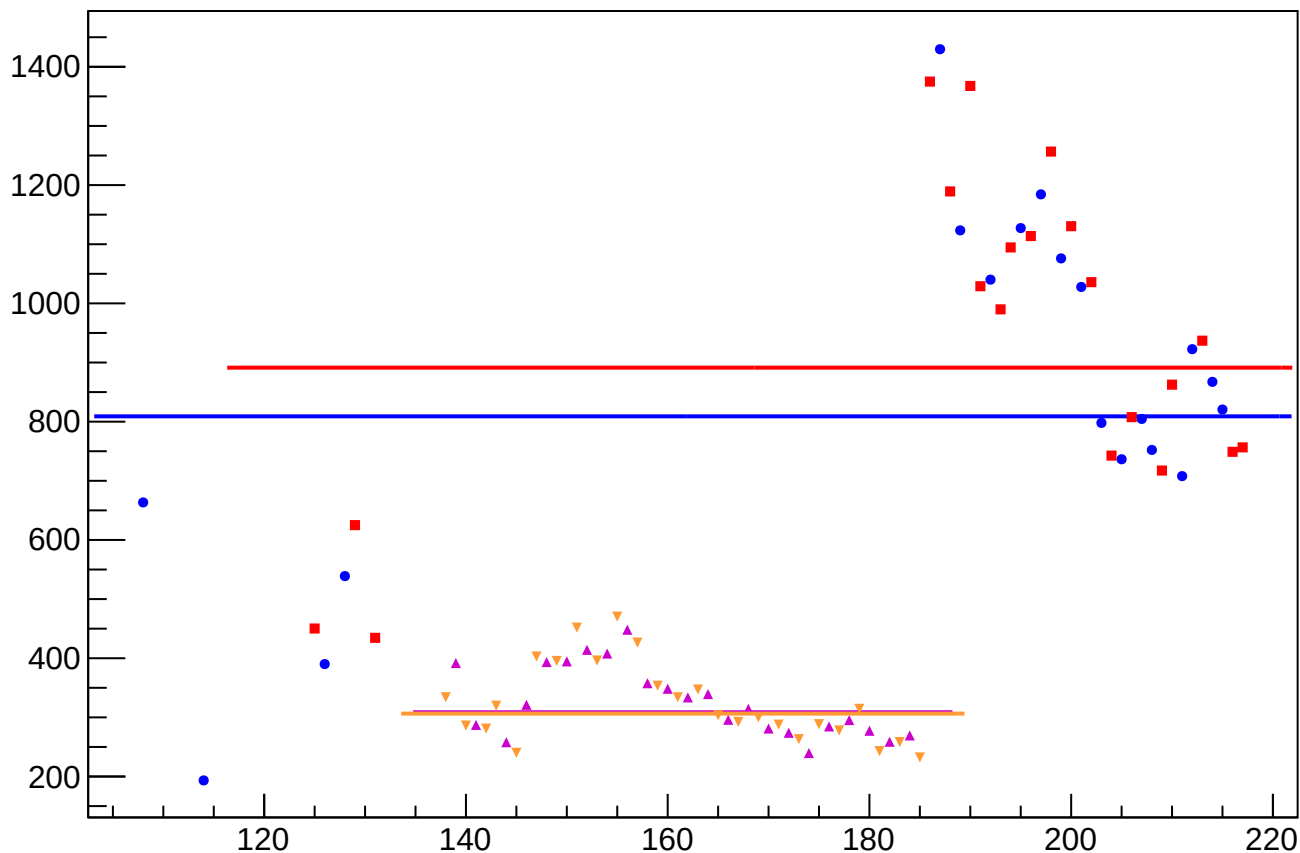
Right: -92.140 $\pm$ 184.787 χ^2 /NDF: 50.6/38

In: -65.571 $\pm$ 72.062 χ^2 /NDF:59.8/41

Out: -212.174 $\pm$ 70.164 χ^2 /NDF:83.8/44

All: -140.828 $\pm$ 50.271 χ^2 /NDF: 145.7/86

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 809.007+/-0.181 χ^2/NDF : 1812151.7/18

Left Out: 306.363+/-0.051 χ^2/NDF :1215669.9/24

Right Out: 891.324+/-0.188 χ^2/NDF : 1132891.9/19

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

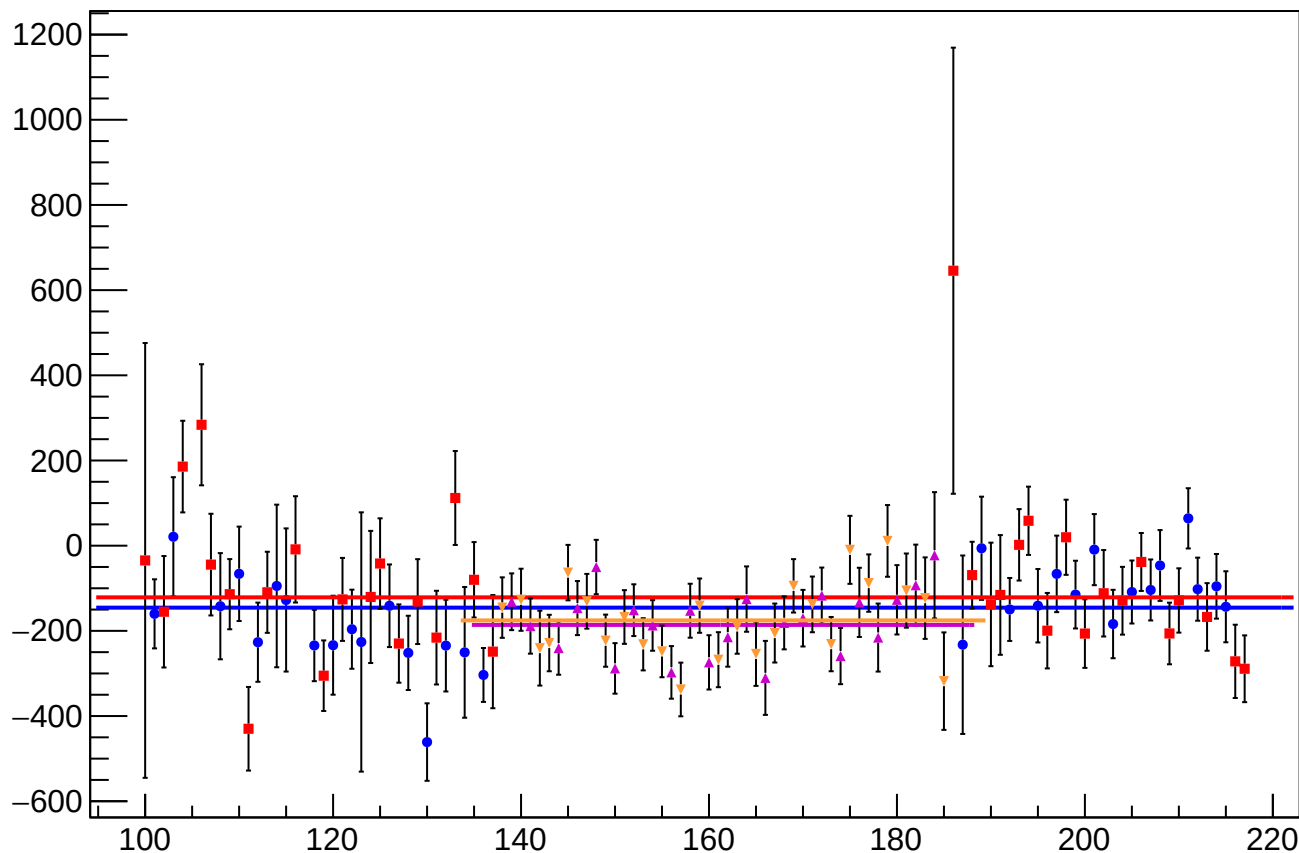
Right: 848.622+/-0.131 χ^2/NDF : 3044124.4/38

In: 348.194+/-0.051 χ^2/NDF :9819768.9/41

Out: 346.949+/-0.050 χ^2/NDF :11324535.8/44

All: 347.555+/-0.036 χ^2/NDF : 21144611.2/86

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -145.499 ± 16.182 $\chi^2/\text{NDF}: 42.7/31$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -121.334 ± 15.990 $\chi^2/\text{NDF}: 65.8/35$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

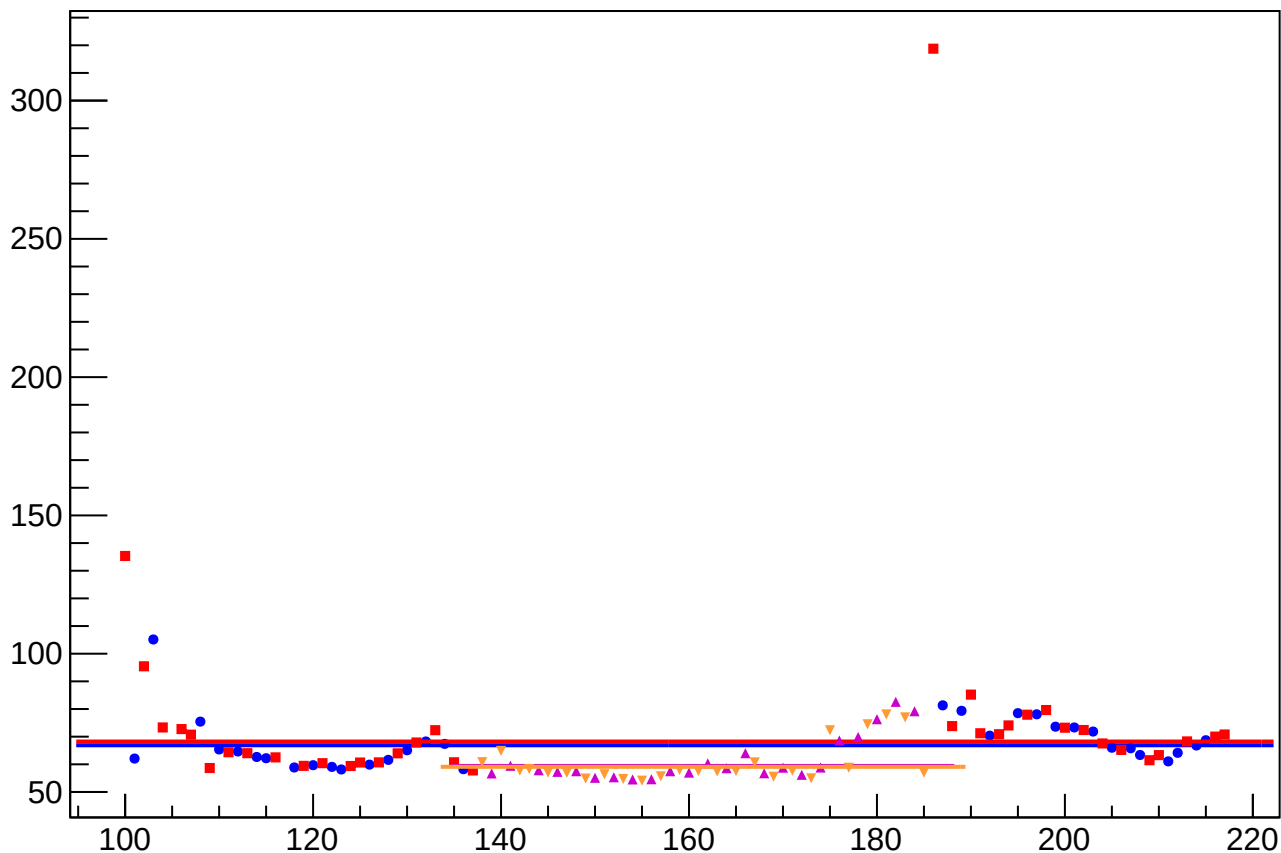
Right: -133.273 ± 11.374 $\chi^2/\text{NDF}: 109.6/67$

In: -168.245 ± 10.722 $\chi^2/\text{NDF}: 69.7/54$

Out: -152.274 ± 10.467 $\chi^2/\text{NDF}: 107.0/60$

All: -160.068 ± 7.490 $\chi^2/\text{NDF}: 177.9/115$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.885 $\pm$ 0.011 χ^2 /NDF: 425806.8/31

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.243 $\pm$ 0.011 χ^2 /NDF: 875580.6/35

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

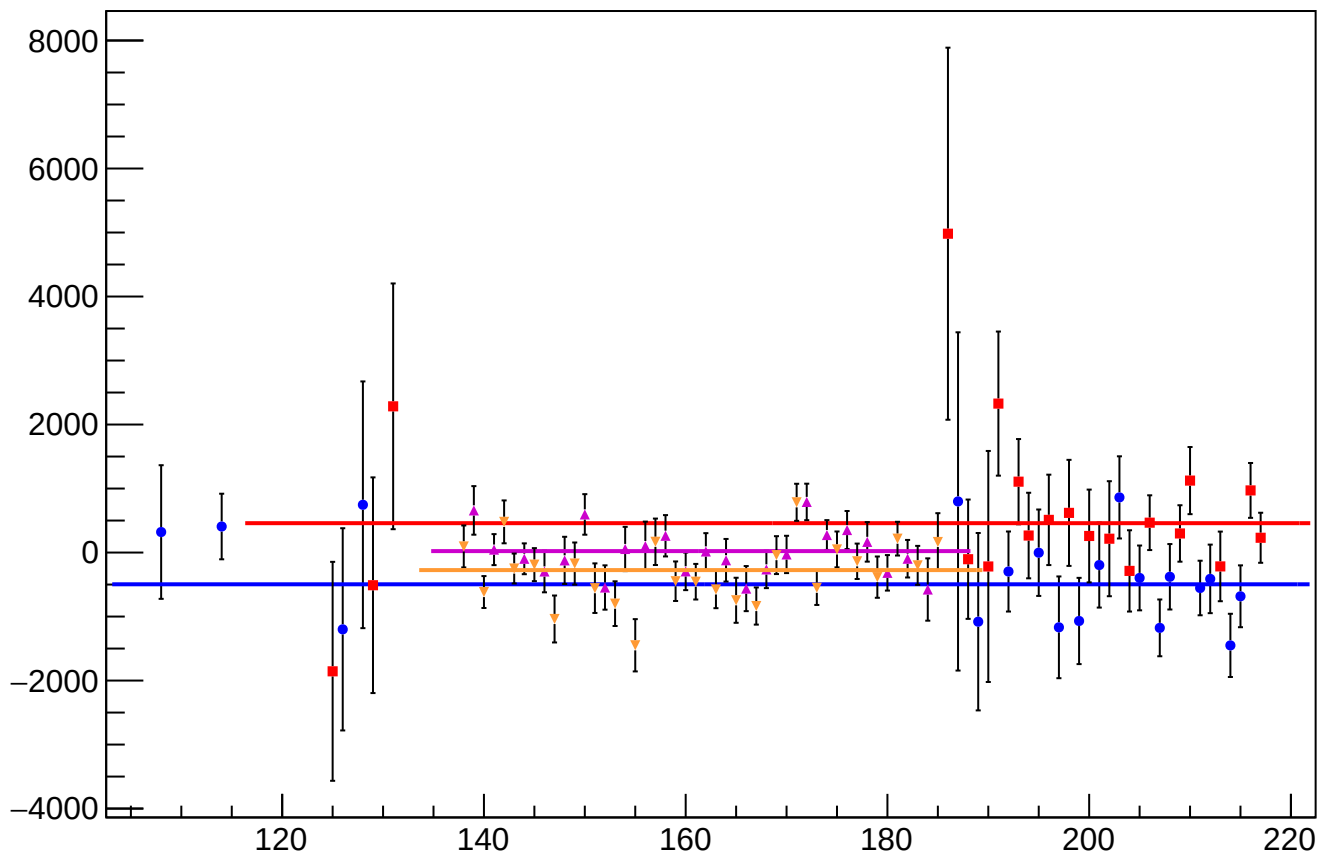
Right: 67.572 $\pm$ 0.008 χ^2 /NDF: 1308518.8/67

In: 62.692 $\pm$ 0.008 χ^2 /NDF: 1038246.3/54

Out: 63.017 $\pm$ 0.007 χ^2 /NDF: 1619151.1/60

All: 62.859 $\pm$ 0.005 χ^2 /NDF: 2658341.2/115

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -495.947 ± 142.165 $\chi^2/\text{NDF}: 17.9/18$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 458.943 ± 146.615 $\chi^2/\text{NDF}: 16.4/19$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

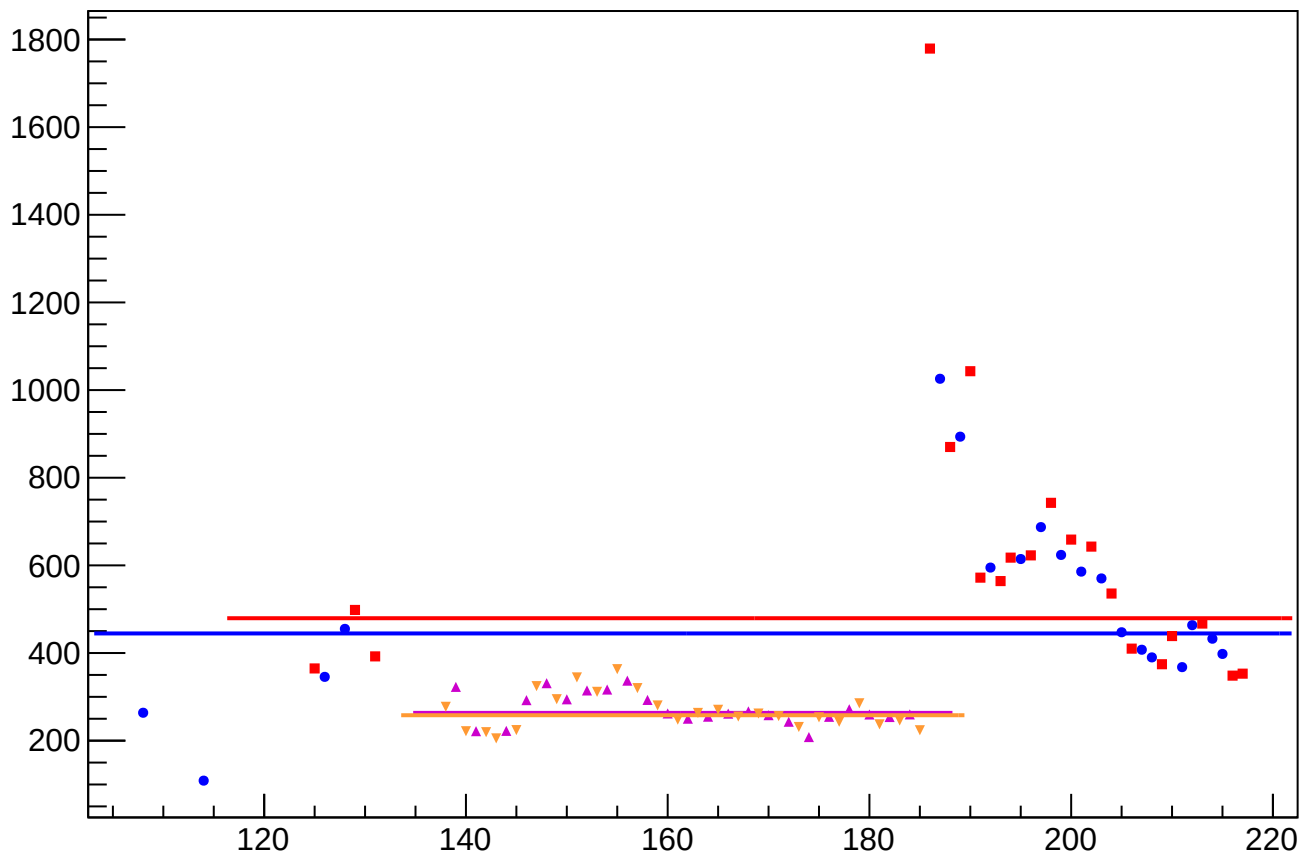
Right: -33.215 ± 102.063 $\chi^2/\text{NDF}: 56.1/38$

In: -63.946 ± 58.088 $\chi^2/\text{NDF}: 57.9/41$

Out: -166.532 ± 56.162 $\chi^2/\text{NDF}: 91.6/44$

All: -116.968 ± 40.376 $\chi^2/\text{NDF}: 151.1/86$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 444.675+/-0.101 χ^2/NDF : 2095337.9/18

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 479.402+/-0.104 χ^2/NDF : 2155895.1/19

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

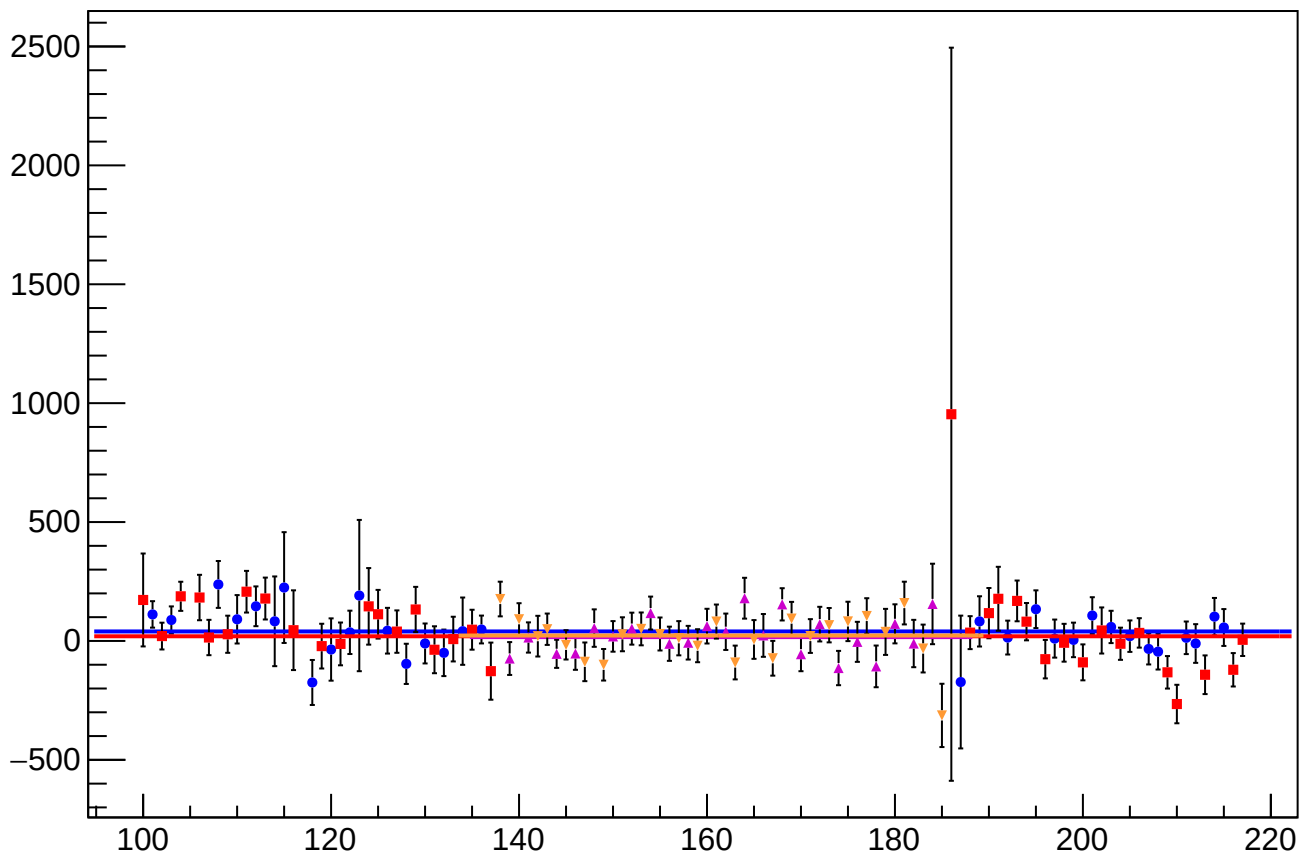
Right: 461.504+/-0.072 χ^2/NDF : 4309064.7/38

In: 293.661+/-0.041 χ^2/NDF : 5389938.5/41

Out: 290.521+/-0.040 χ^2/NDF : 6770844.7/44

All: 292.038+/-0.029 χ^2/NDF : 12163804.4/86

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 39.977 $\pm$ 14.626 χ^2 /NDF: 25.8/31

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 19.656 $\pm$ 14.070 χ^2 /NDF: 59.6/35

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

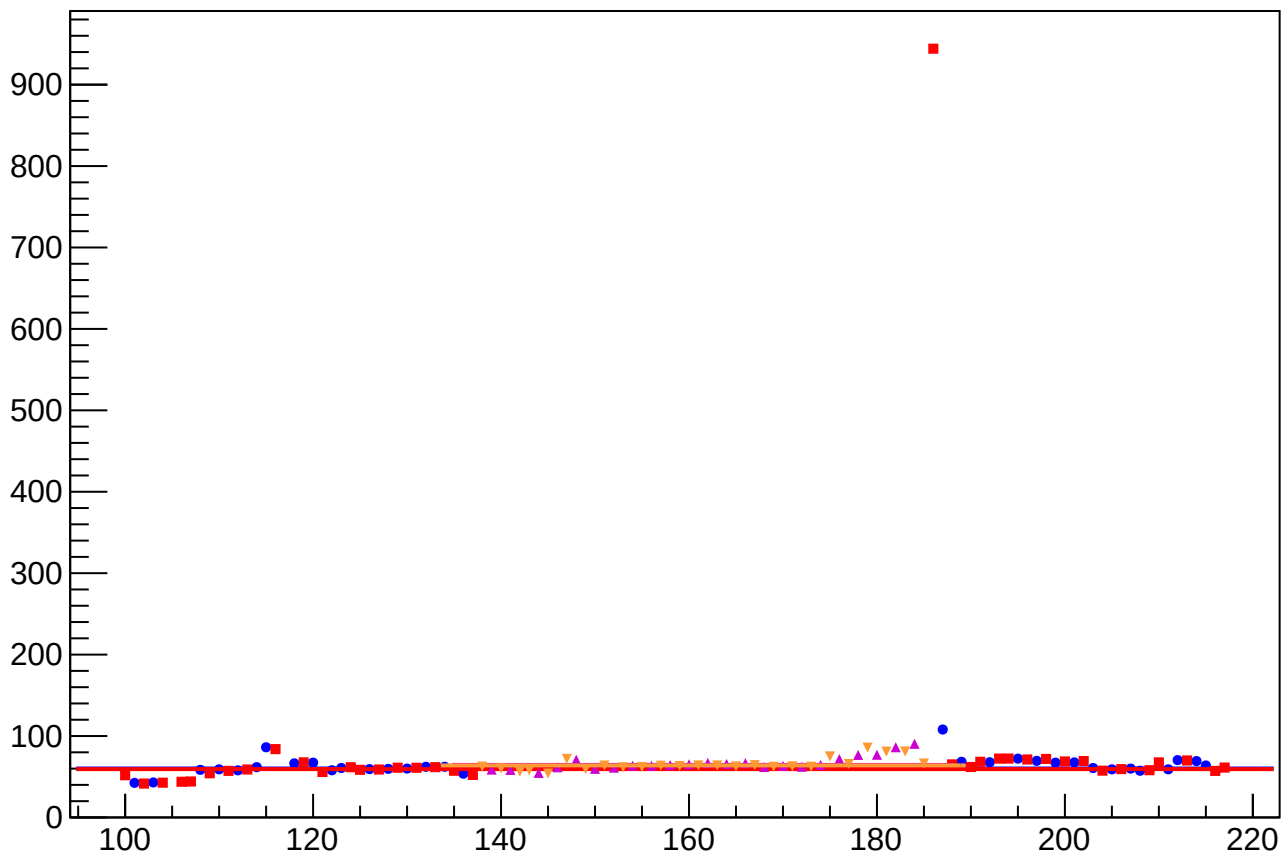
Right: 29.423 $\pm$ 10.140 χ^2 /NDF: 86.4/67

In: 28.800 $\pm$ 10.648 χ^2 /NDF:50.3/54

Out: 21.164 $\pm$ 10.252 χ^2 /NDF:88.7/60

All: 24.838 $\pm$ 7.385 χ^2 /NDF: 139.3/115

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.100 $\pm$ 0.010 χ^2 /NDF: 722787.3/31

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.385 $\pm$ 0.010 χ^2 /NDF: 1556395.6/35

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF: 370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

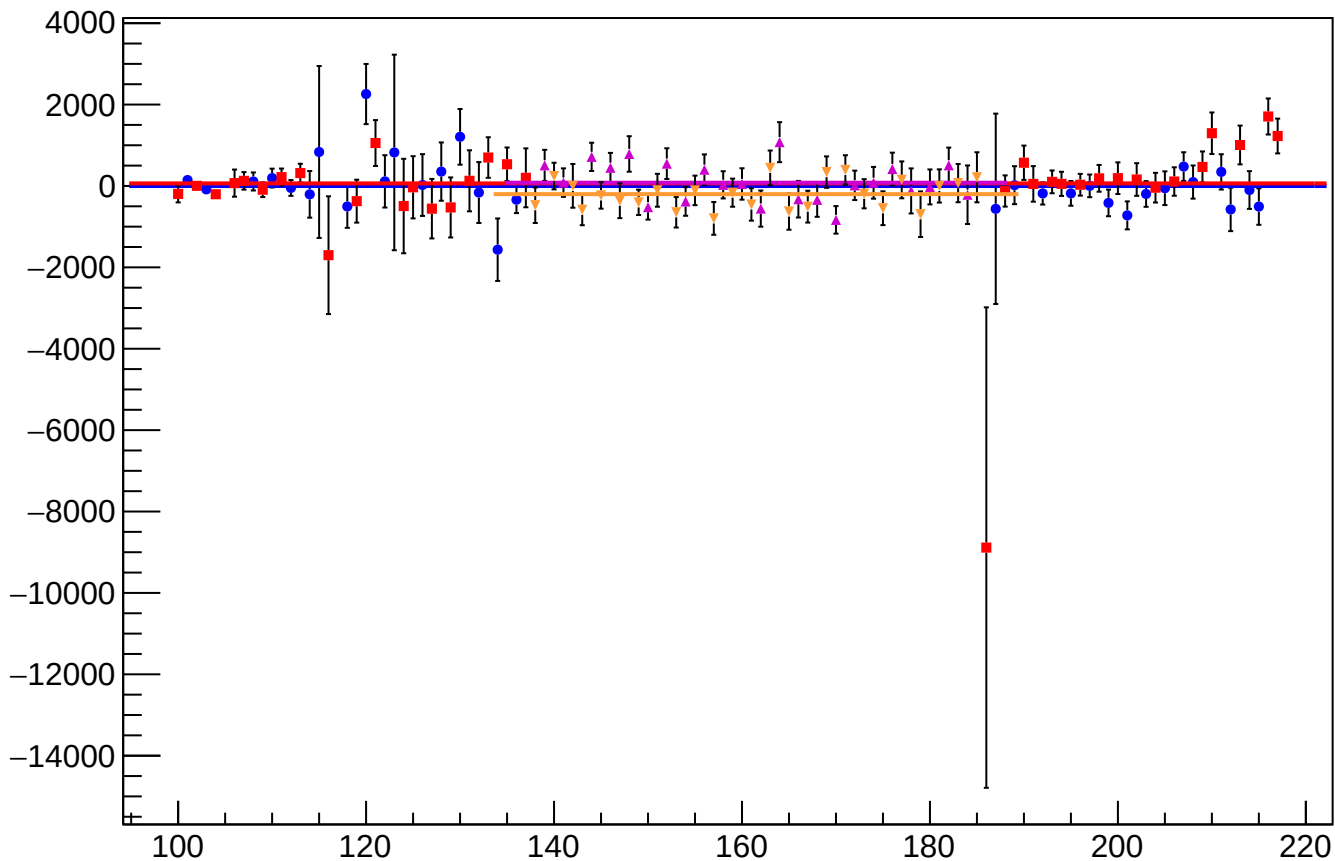
Right: 59.729 $\pm$ 0.007 χ^2 /NDF: 2281661.4/67

In: 62.173 $\pm$ 0.008 χ^2 /NDF: 1178802.5/54

Out: 61.512 $\pm$ 0.007 χ^2 /NDF: 2049256.3/60

All: 61.830 $\pm$ 0.005 χ^2 /NDF: 3232053.7/115

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -1.603 ± 45.447 χ^2/NDF : 36.7/31

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 63.113 ± 46.053 χ^2/NDF : 57.8/35

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

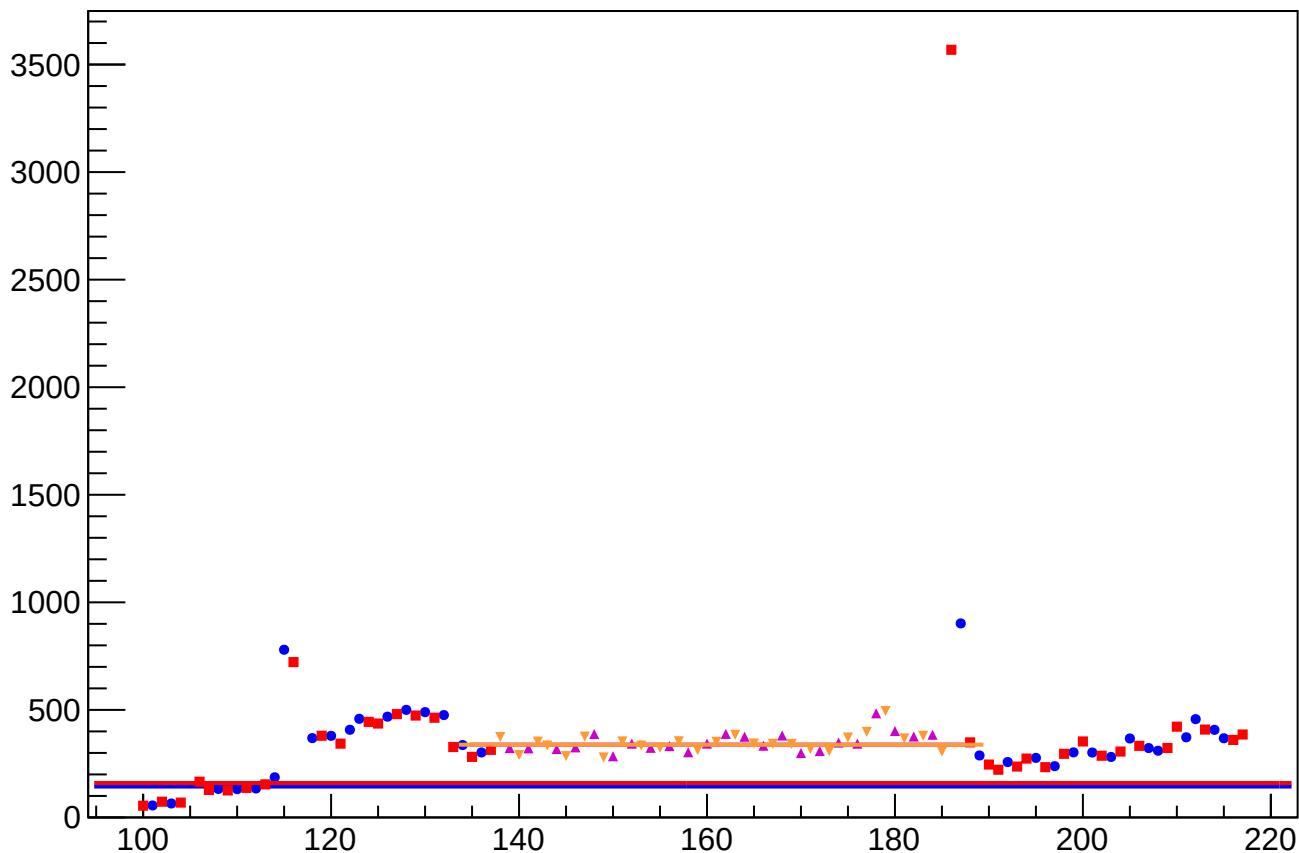
Right: 30.326 ± 32.348 χ^2/NDF : 95.5/67

In: 17.647 ± 39.725 χ^2/NDF : 70.9/54

Out: -3.207 ± 39.856 χ^2/NDF : 85.8/60

All: 7.255 ± 28.136 χ^2/NDF : 156.8/115

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 143.673+/-0.032 χ^2/NDF : 13911617.6/31

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 160.198+/-0.033 χ^2/NDF : 12726012.9/35

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

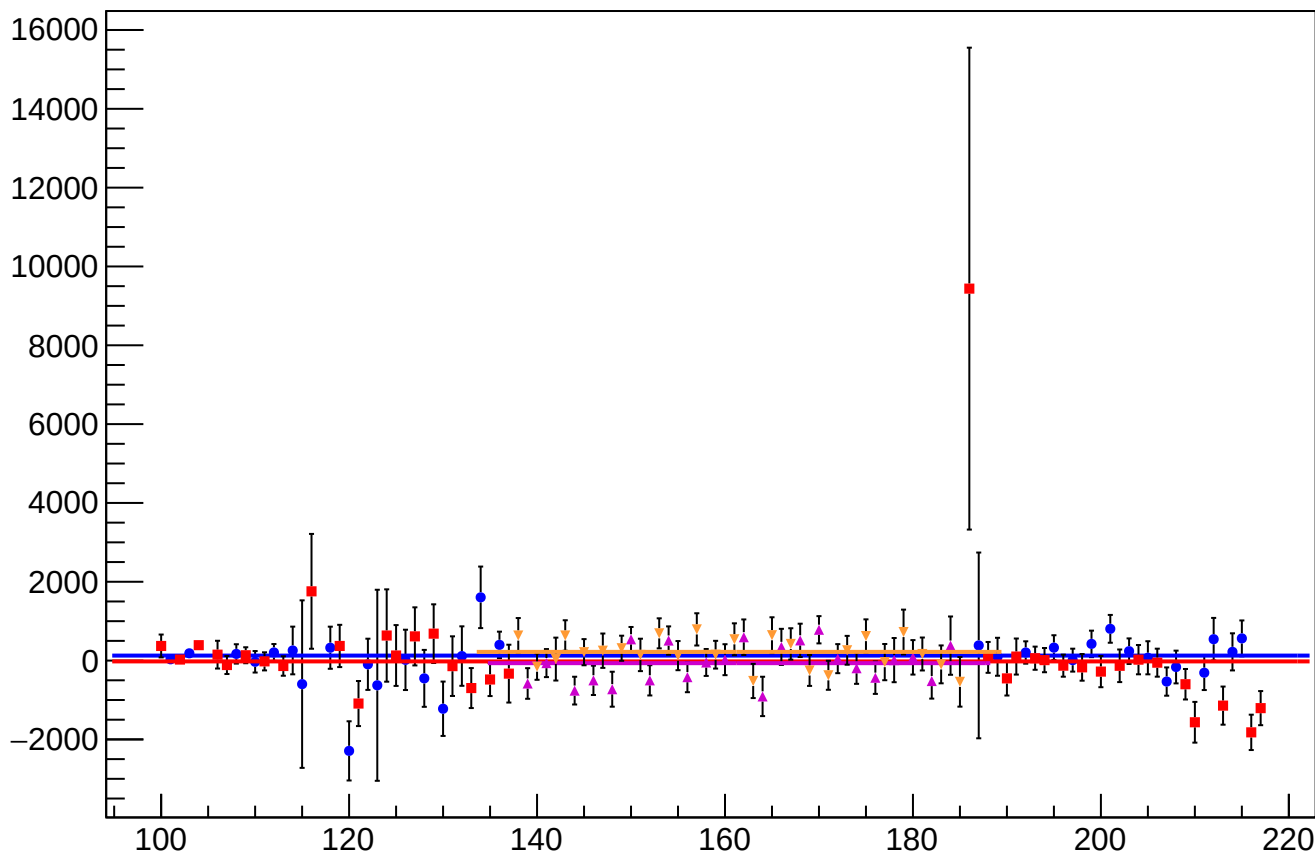
Right: 151.826+/-0.023 χ^2/NDF : 26768104.5/67

In: 189.657+/-0.028 χ^2/NDF : 23027090.3/54

Out: 204.864+/-0.028 χ^2/NDF : 20718999.3/60

All: 197.235+/-0.020 χ^2/NDF : 43892139.8/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 126.861+/-53.228 χ^2/NDF : 32.8/31

Left Out: 221.083+/-81.018 χ^2/NDF :19.7/24

Right Out: -20.782+/-51.132 χ^2/NDF : 70.2/35

Left In: -65.510+/-83.319 χ^2/NDF :34.0/22

Left: 81.798+/-58.085 χ^2/NDF : 59.7/47

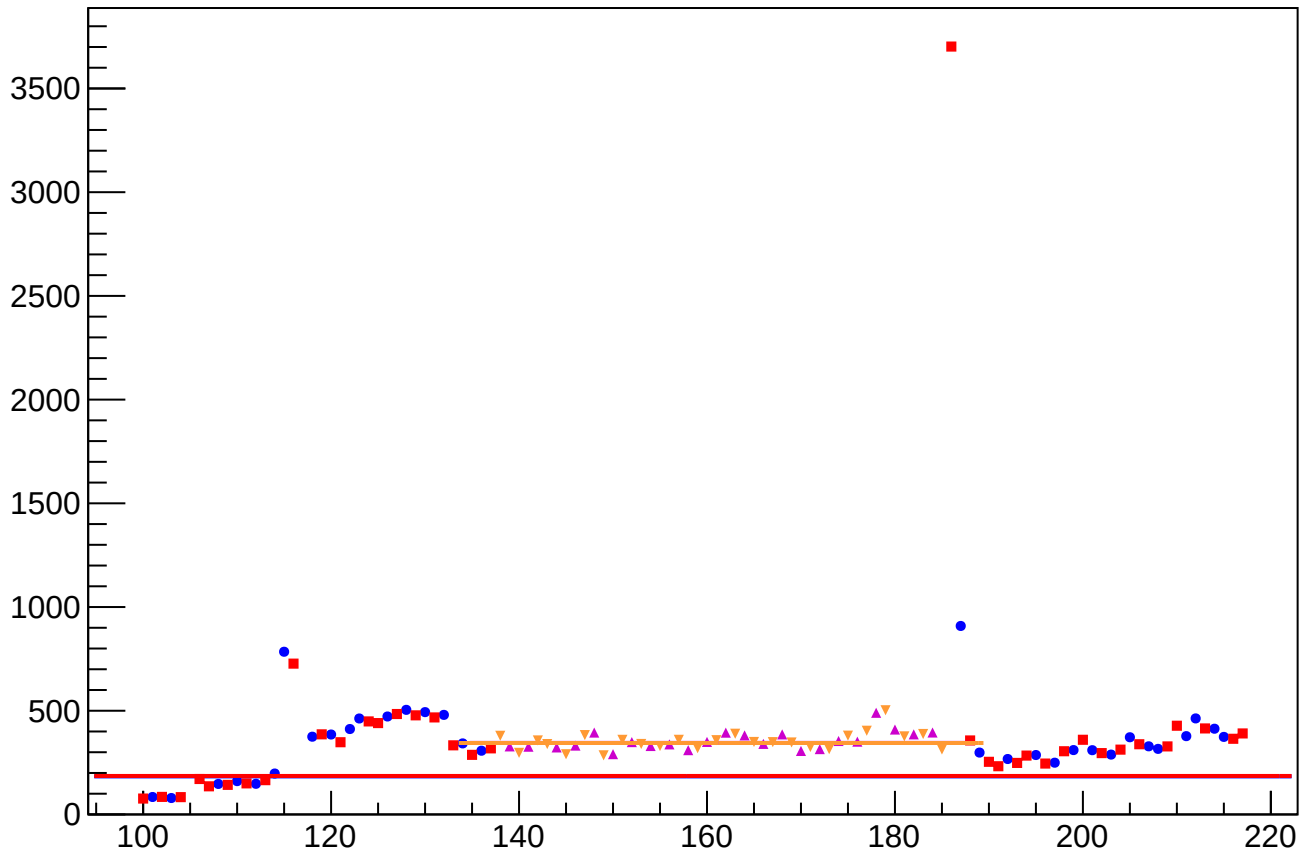
Right: 50.075+/-36.875 χ^2/NDF : 107.0/67

In: 71.104+/-44.856 χ^2/NDF :70.6/54

Out: 48.114+/-43.241 χ^2/NDF :96.3/60

All: 59.188+/-31.131 χ^2/NDF : 166.9/115

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 183.397+/-0.038 χ^2/NDF : 10462289.0/31

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 185.595+/-0.036 χ^2/NDF : 10626877.1/35

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

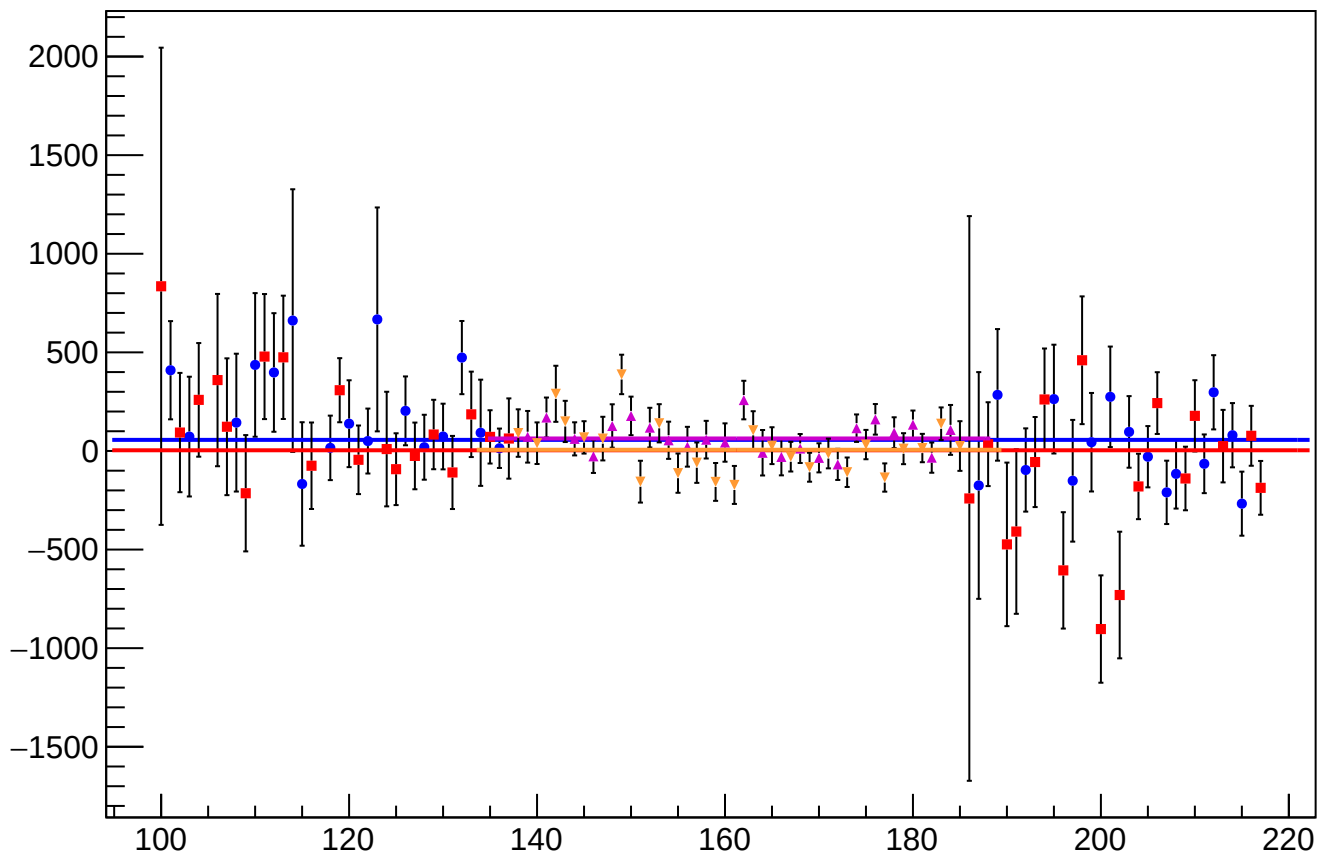
Right: 184.540+/-0.026 χ^2/NDF : 21090939.2/67

In: 230.247+/-0.032 χ^2/NDF : 16235445.5/54

Out: 230.861+/-0.031 χ^2/NDF : 16617789.3/60

All: 230.565+/-0.022 χ^2/NDF : 32853428.9/11

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 56.225+/-35.481 χ^2/NDF : 26.4/31

Left Out: 6.020+/-17.910 χ^2/NDF : 46.0/24

Right Out: 3.475+/-35.700 χ^2/NDF : 46.3/35

Left In: 63.279+/-18.447 χ^2/NDF : 19.8/22

Left: 33.804+/-12.850 χ^2/NDF : 70.8/47

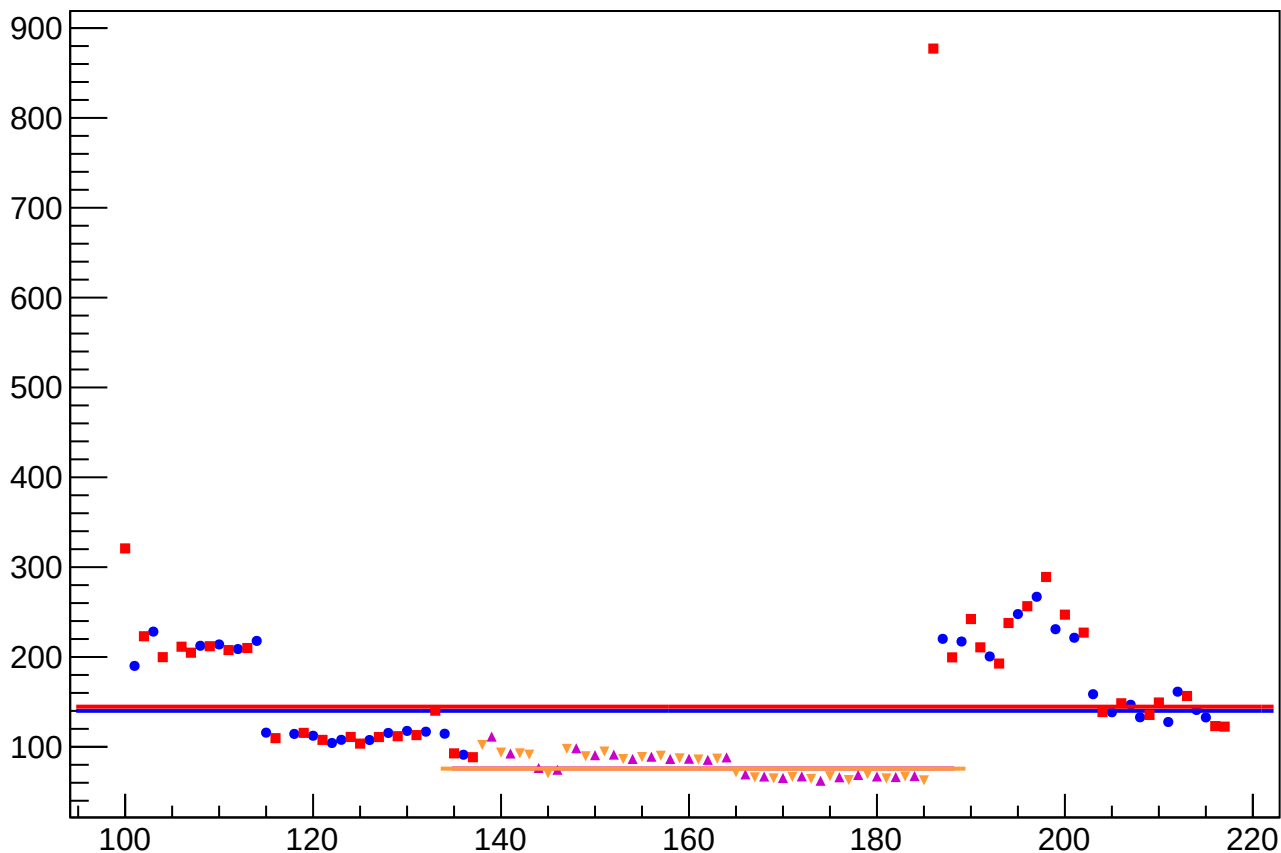
Right: 30.013+/-25.166 χ^2/NDF : 73.8/67

In: 61.778+/-16.367 χ^2/NDF : 46.3/54

Out: 5.508+/-16.008 χ^2/NDF : 92.3/60

All: 33.020+/-11.444 χ^2/NDF : 144.6/115

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.100 $\pm$ 0.025 χ^2 /NDF: 2915061.6/31

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF: 937821.8/24

Right Out: 144.731 $\pm$ 0.025 χ^2 /NDF: 3997685.4/35

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF: 831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

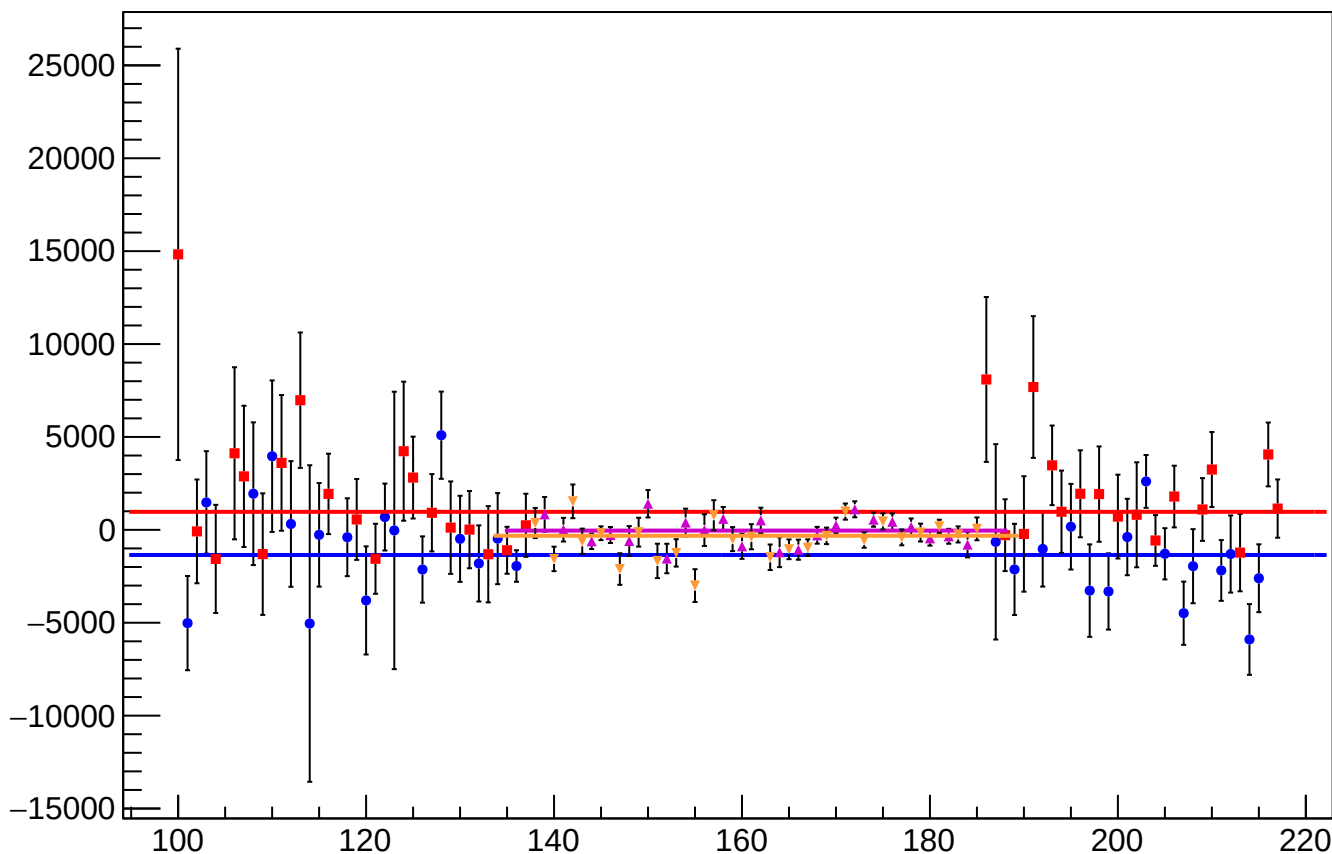
Right: 142.401 $\pm$ 0.018 χ^2 /NDF: 6929678.8/67

In: 89.568 $\pm$ 0.012 χ^2 /NDF: 8899593.5/54

Out: 89.614 $\pm$ 0.011 χ^2 /NDF: 10902277.9/60

All: 89.592 $\pm$ 0.008 χ^2 /NDF: 19801879.6/115

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1352.502 $\pm$ 356.630 χ^2 /NDF: 36.9/31

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 970.100 $\pm$ 367.988 χ^2 /NDF: 29.5/35

Left In: -40.473 $\pm$ 110.252 χ^2 /NDF:34.7/22

Left: -182.115 $\pm$ 77.156 χ^2 /NDF: 88.0/47

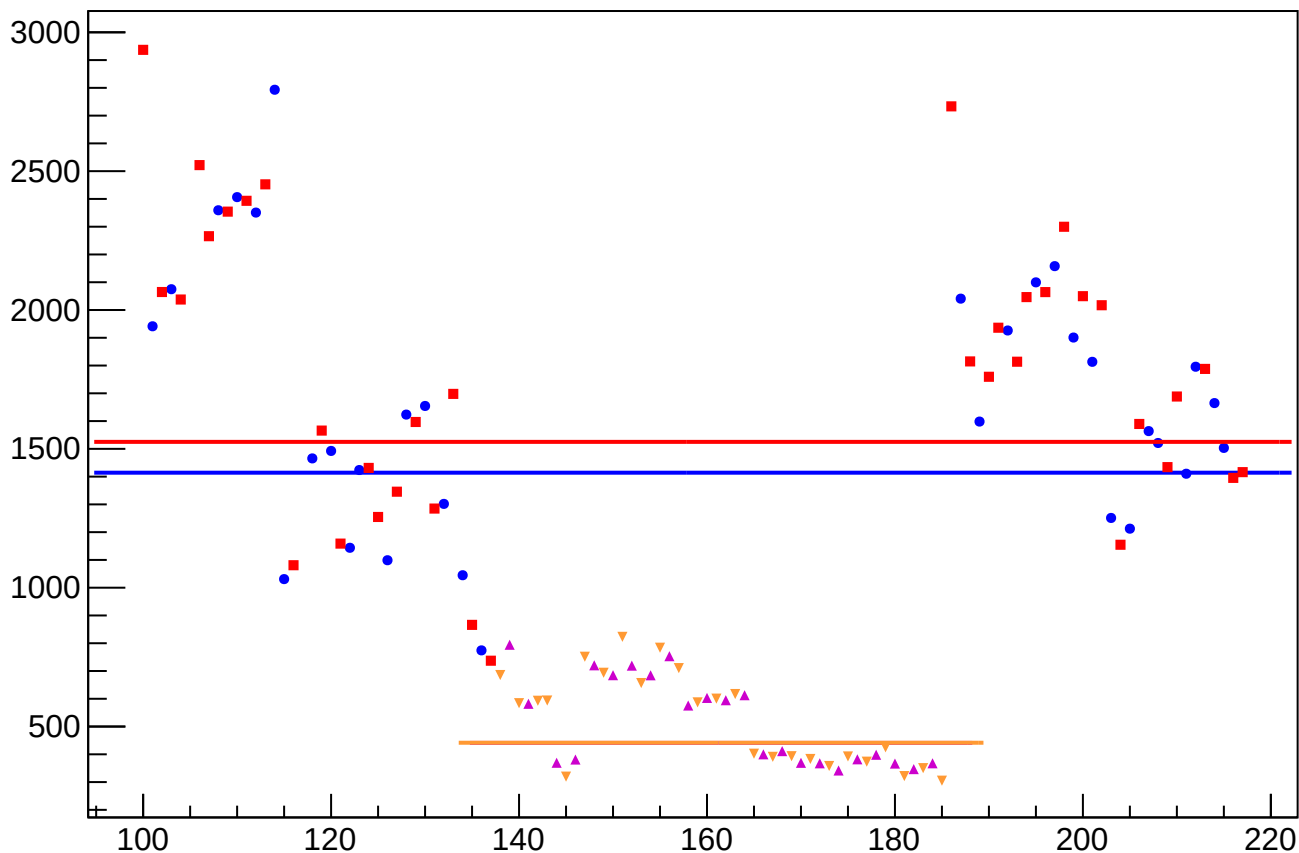
Right: -227.598 $\pm$ 256.097 χ^2 /NDF: 86.9/67

In: -154.930 $\pm$ 105.334 χ^2 /NDF:84.0/54

Out: -215.884 $\pm$ 103.641 χ^2 /NDF:90.8/60

All: -185.900 $\pm$ 73.876 χ^2 /NDF: 174.9/115

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1414.151+/-0.252 χ^2/NDF : 2930116.6/31

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1525.131+/-0.260 χ^2/NDF : 2982678.5/35

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

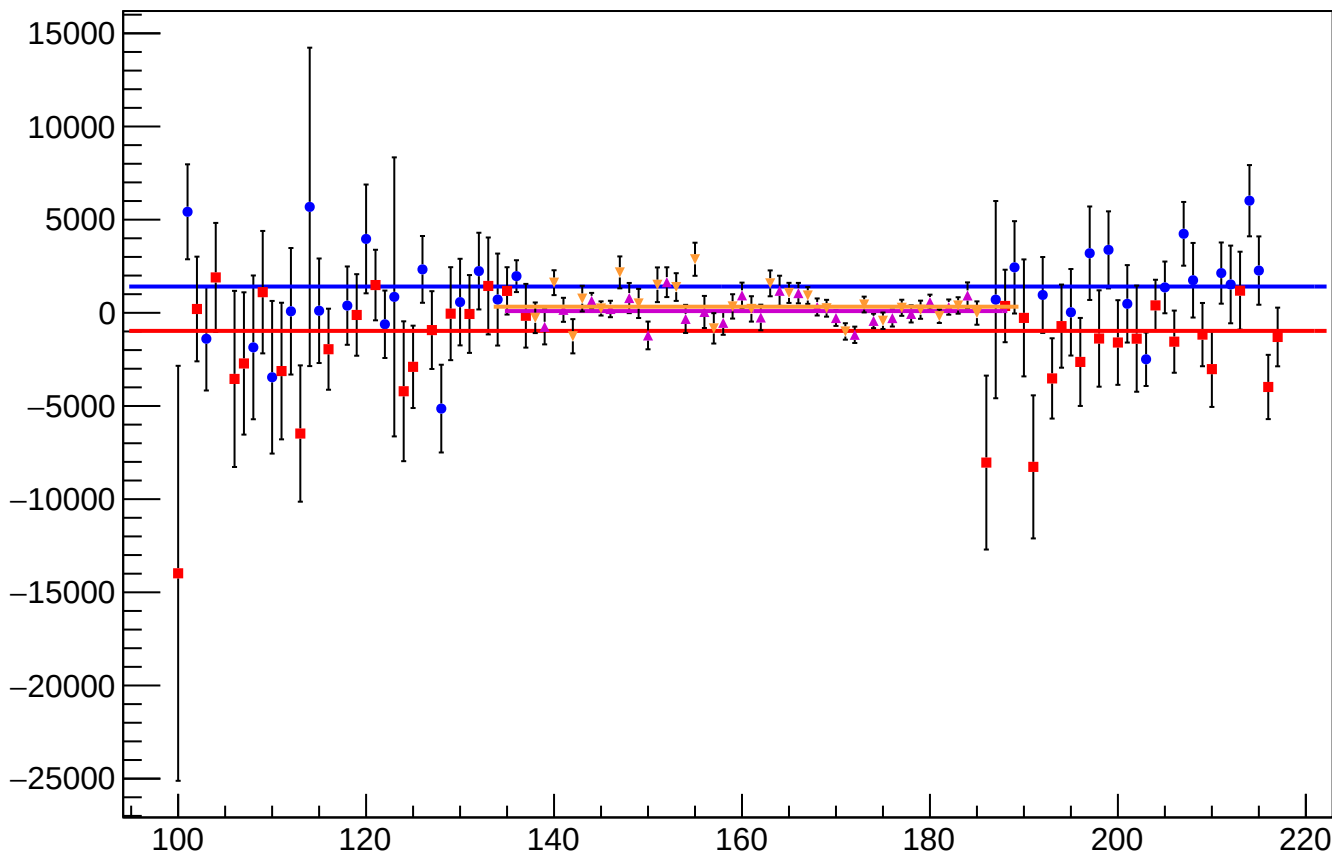
Right: 1467.902+/-0.181 χ^2/NDF : 6006600.6/67

In: 525.902+/-0.074 χ^2/NDF : 19119836.7/54

Out: 527.626+/-0.073 χ^2/NDF : 22113752.7/60

All: 526.778+/-0.052 χ^2/NDF : 41233861.7/11

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1410.846 $\pm$ 358.790 χ^2 /NDF: 35.9/31

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -969.512 $\pm$ 370.178 χ^2 /NDF: 28.6/35

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF: 33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

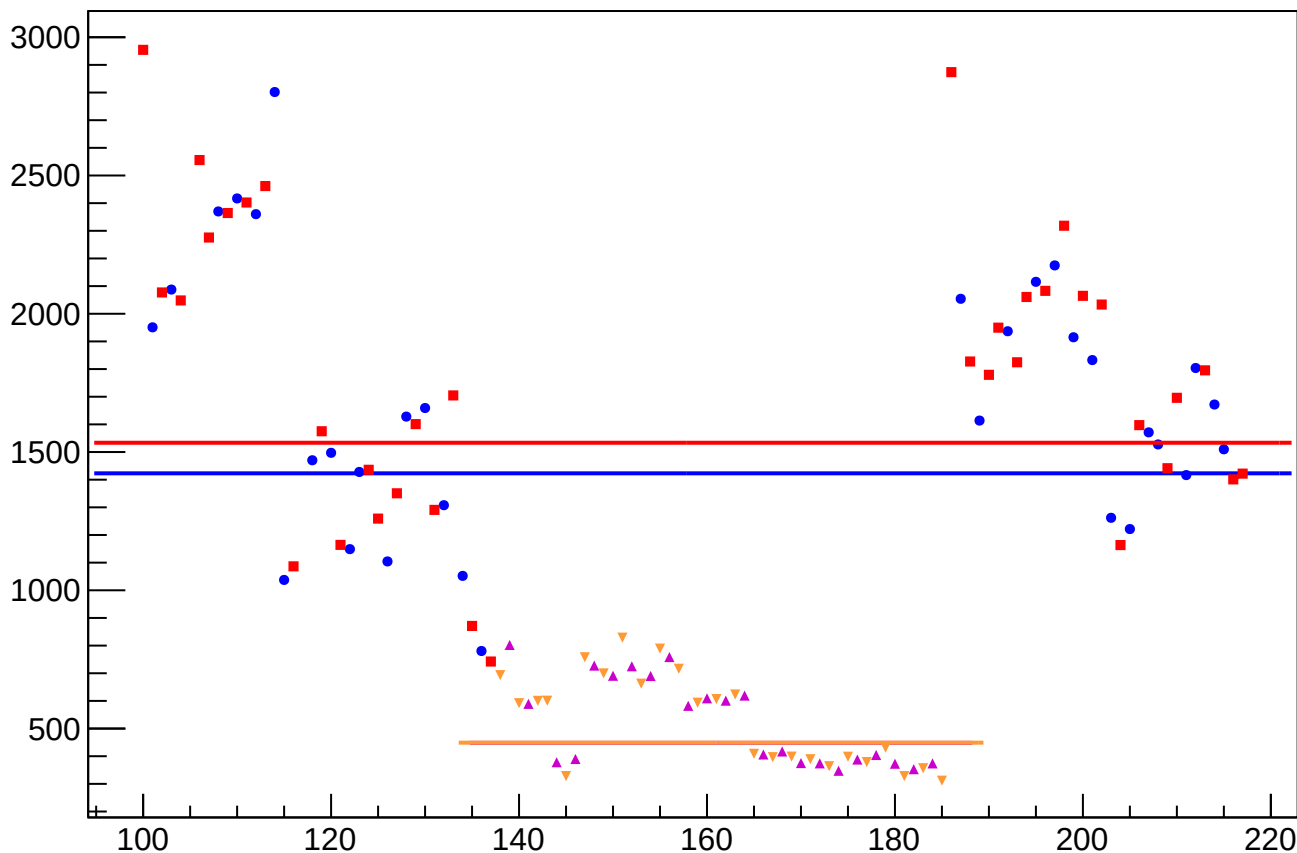
Right: 257.843 $\pm$ 257.635 χ^2 /NDF: 85.8/67

In: 210.220 $\pm$ 106.877 χ^2 /NDF: 81.5/54

Out: 223.858 $\pm$ 105.151 χ^2 /NDF: 87.6/60

All: 217.150 $\pm$ 74.956 χ^2 /NDF: 169.2/115

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1423.011 $\pm$ 0.254 χ^2/NDF : 2918524.0/31

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1533.595 $\pm$ 0.262 χ^2/NDF : 3002617.5/35

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

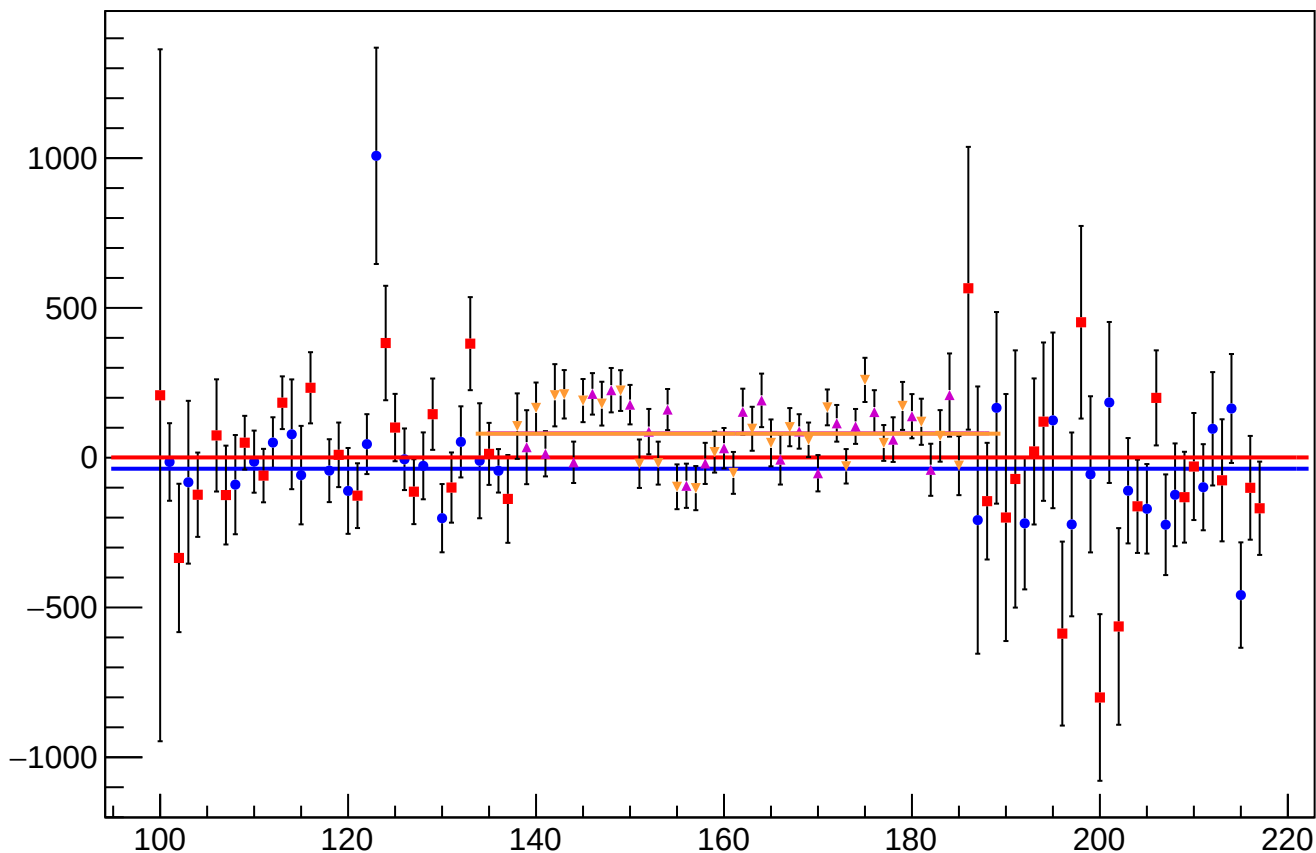
Right: 1476.576 $\pm$ 0.182 χ^2/NDF : 6013169.9/67

In: 534.796 $\pm$ 0.076 χ^2/NDF : 18906429.0/54

Out: 536.528 $\pm$ 0.074 χ^2/NDF : 21876264.3/60

All: 535.676 $\pm$ 0.053 χ^2/NDF : 40782960.2/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -36.832 ± 25.251 $\chi^2/\text{NDF}: 26.5/31$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 0.879 ± 24.684 $\chi^2/\text{NDF}: 53.2/35$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

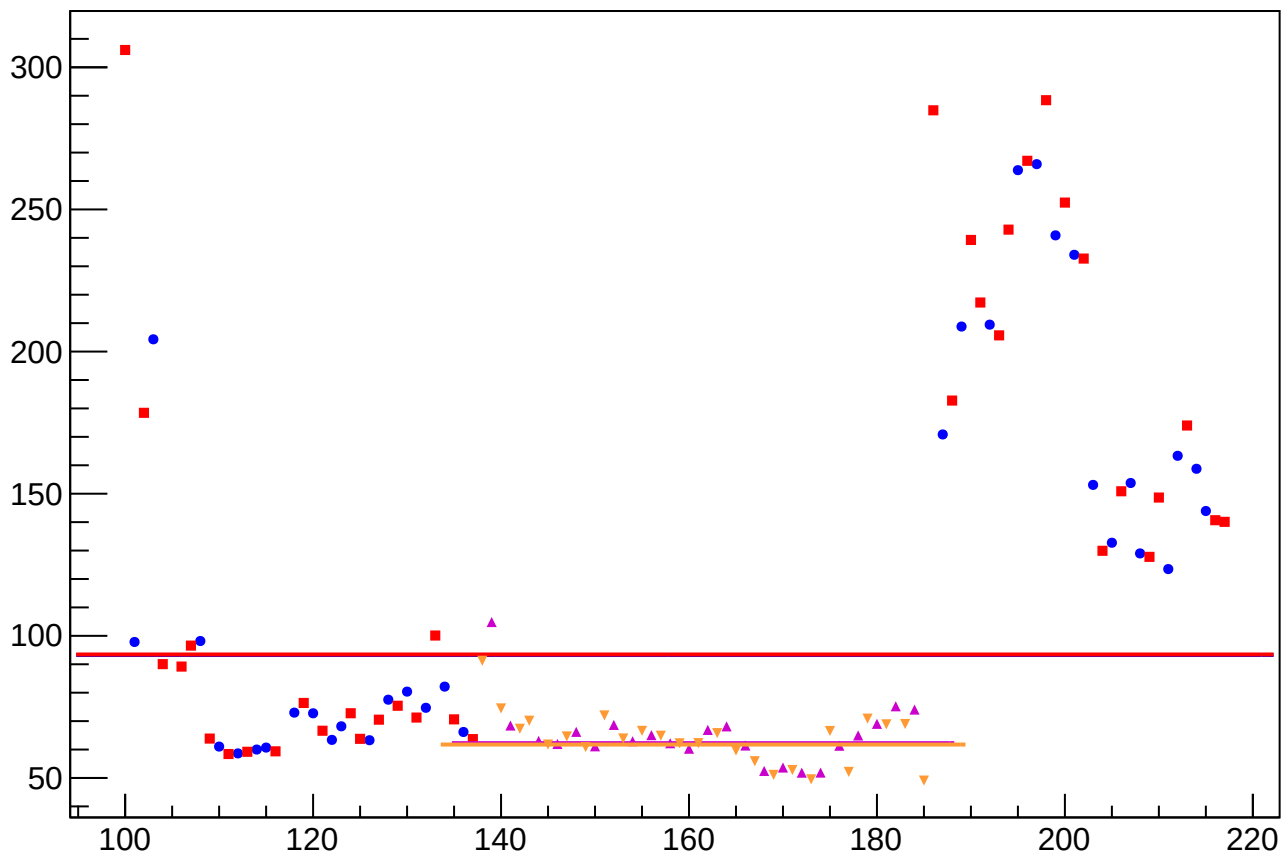
Right: -17.548 ± 17.651 $\chi^2/\text{NDF}: 80.8/67$

In: 50.060 ± 12.963 $\chi^2/\text{NDF}: 77.9/54$

Out: 59.636 ± 12.561 $\chi^2/\text{NDF}: 109.4/60$

All: 54.999 ± 9.021 $\chi^2/\text{NDF}: 187.5/115$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 93.253 $\pm$ 0.018 χ^2 /NDF: 6769138.2/31

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 93.439 $\pm$ 0.017 χ^2 /NDF: 7951195.3/35

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

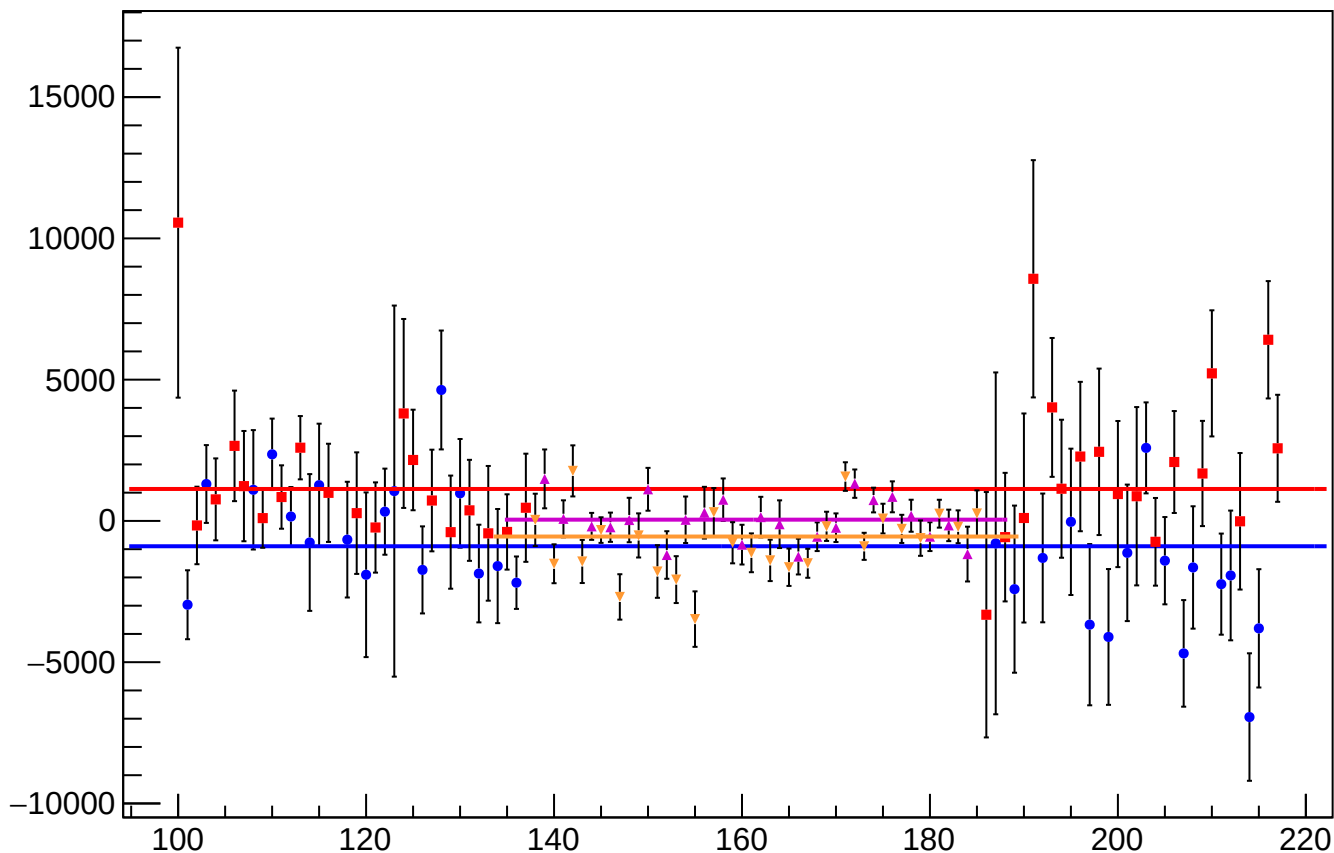
Right: 93.348 $\pm$ 0.012 χ^2 /NDF: 14720388.8/67

In: 70.421 $\pm$ 0.009 χ^2 /NDF: 9580691.8/54

Out: 69.965 $\pm$ 0.009 χ^2 /NDF: 11037672.4/60

All: 70.186 $\pm$ 0.006 χ^2 /NDF: 20619641.3/115

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -896.618 ± 316.323 $\chi^2/\text{NDF}: 48.3/31$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1131.021 ± 310.176 $\chi^2/\text{NDF}: 30.2/35$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

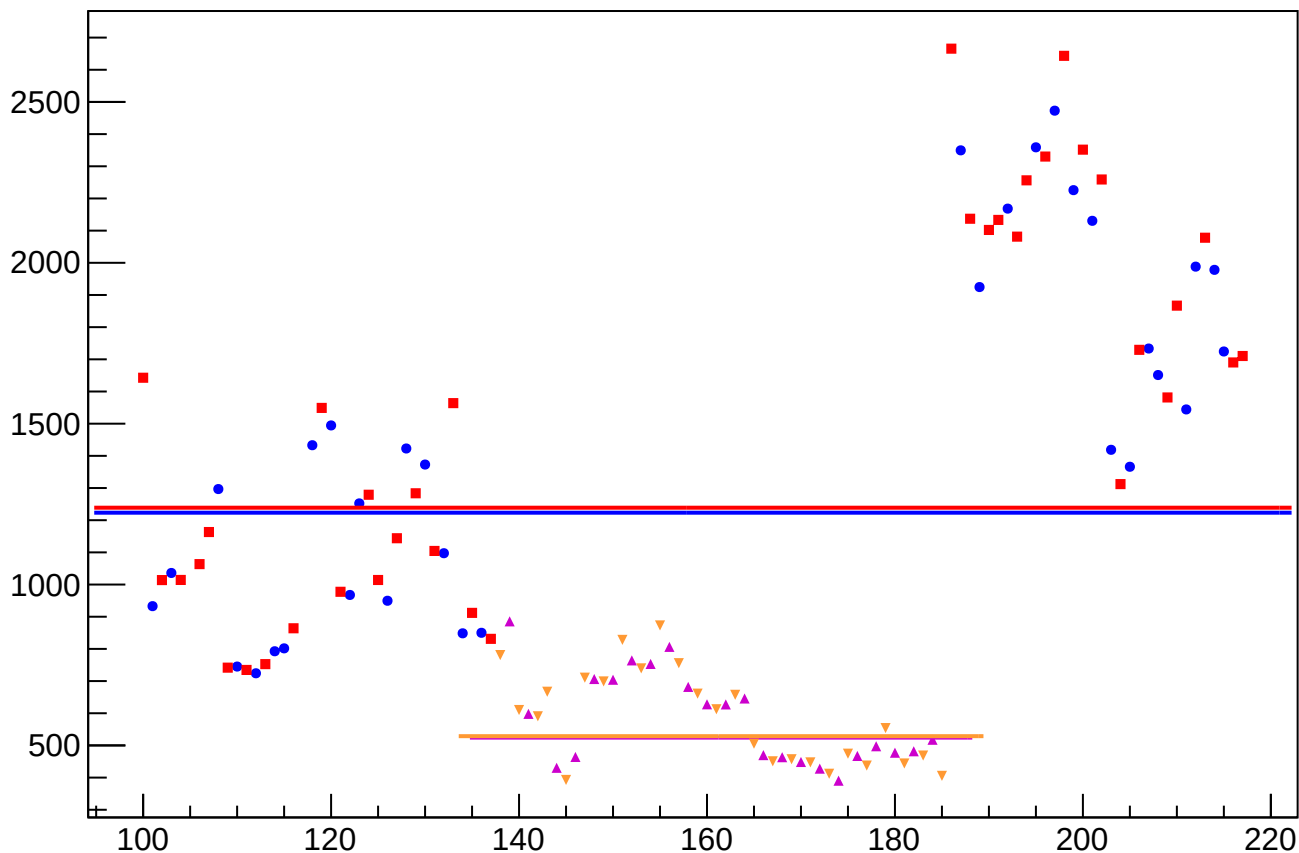
Right: 137.096 ± 221.469 $\chi^2/\text{NDF}: 99.5/67$

In: -89.800 ± 119.524 $\chi^2/\text{NDF}: 85.5/54$

Out: -310.858 ± 117.515 $\chi^2/\text{NDF}: 120.7/60$

All: -202.203 ± 83.797 $\chi^2/\text{NDF}: 207.9/115$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1223.344+/-0.224 χ^2/NDF : 4445338.5/31

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1238.859+/-0.219 χ^2/NDF : 5367230.5/35

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

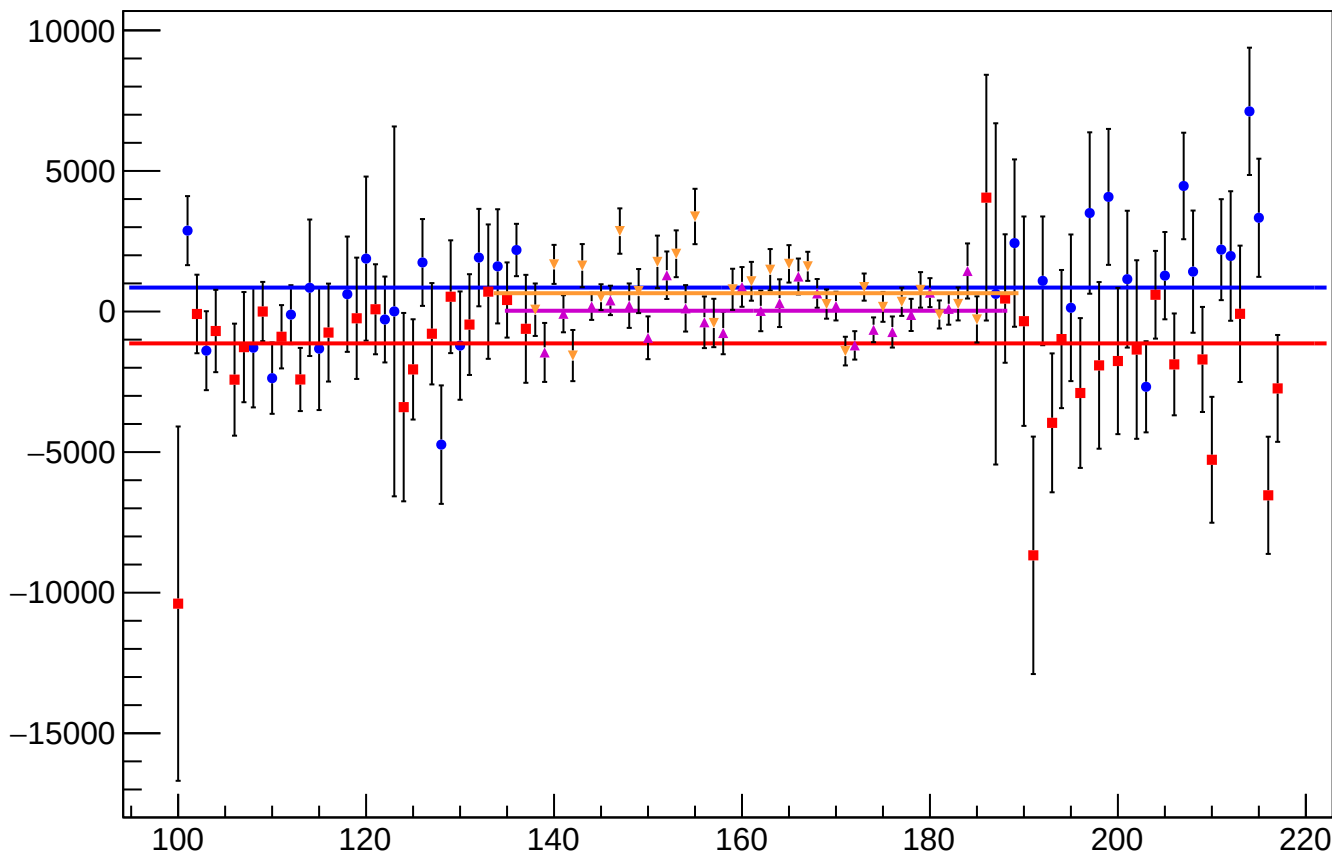
Right: 1231.253+/-0.157 χ^2/NDF : 9815022.0/67

In: 624.078+/-0.085 χ^2/NDF : 14535174.3/54

Out: 630.666+/-0.083 χ^2/NDF : 16329134.7/60

All: 627.428+/-0.059 χ^2/NDF : 30867398.7/11

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 851.828+/-317.790 χ^2/NDF : 47.8/31

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -1133.807+/-311.713 χ^2/NDF : 29.7/35

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

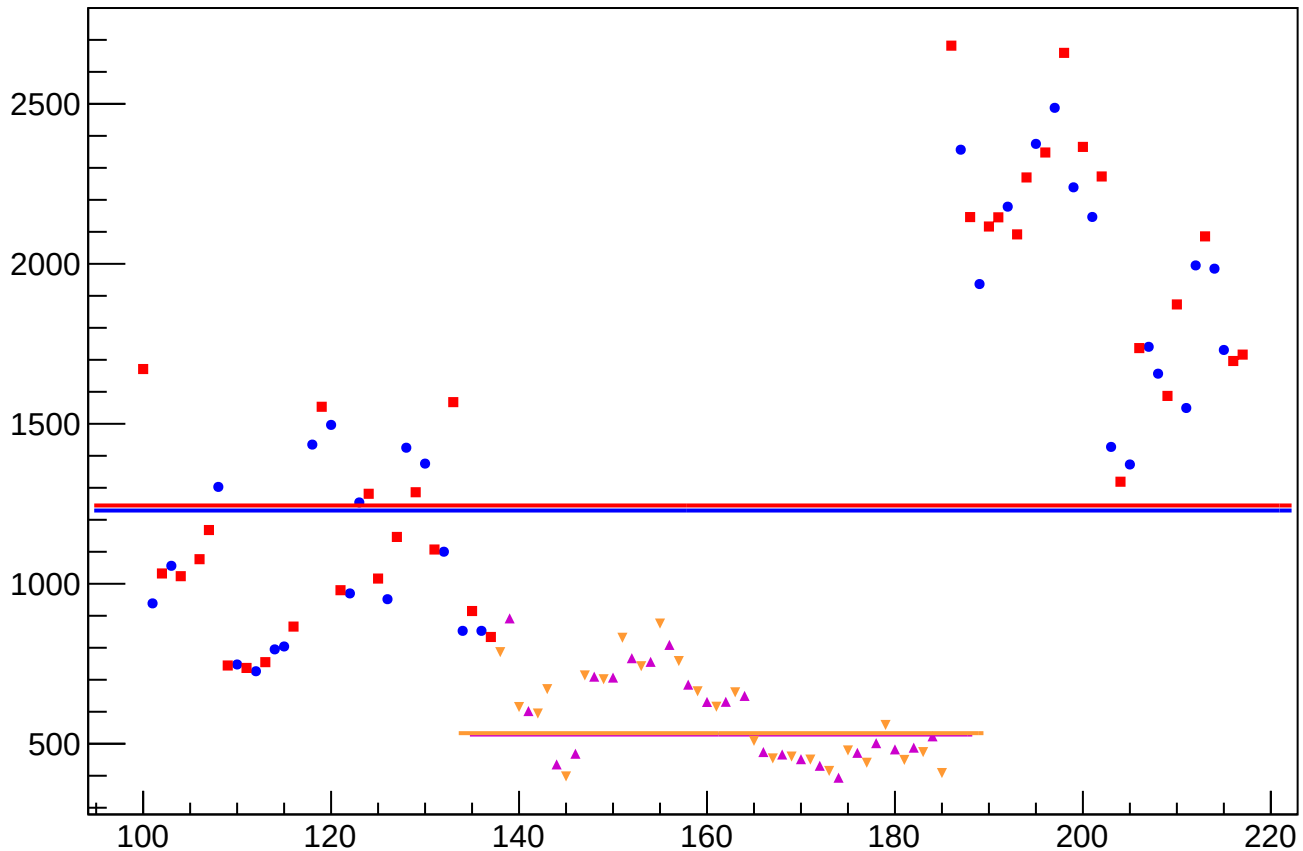
Right: -160.156+/-222.532 χ^2/NDF : 97.3/67

In: 145.853+/-120.422 χ^2/NDF : 82.0/54

Out: 394.083+/-118.375 χ^2/NDF : 118.8/60

All: 272.096+/-84.418 χ^2/NDF : 203.0/115

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1228.934+/-0.225 χ^2/NDF : 4449683.5/31

Left Out: 533.060+/-0.090 χ^2/NDF : 1951536.4/24

Right Out: 1244.741+/-0.220 χ^2/NDF : 5373220.0/35

Left In: 528.694+/-0.092 χ^2/NDF : 1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

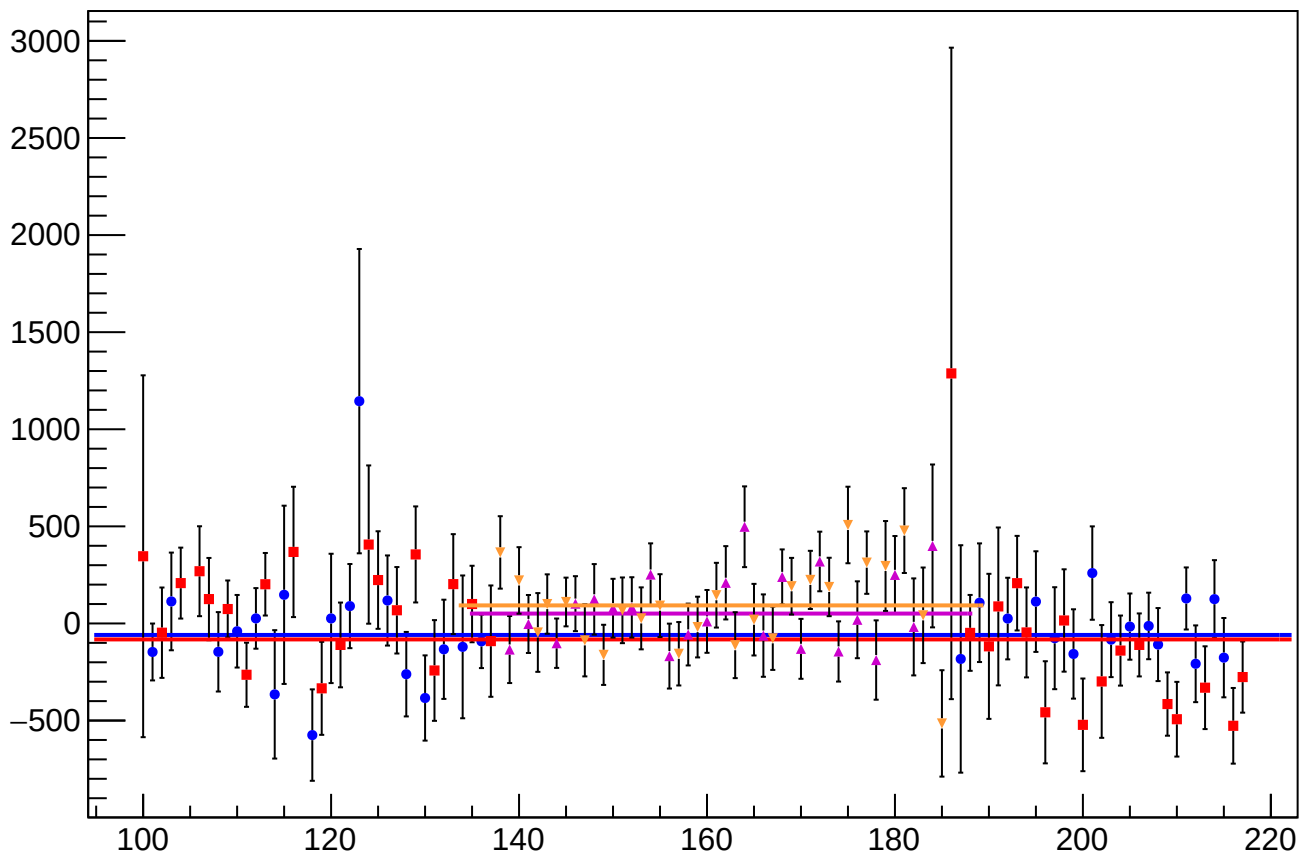
Right: 1236.990+/-0.157 χ^2/NDF : 9825425.1/67

In: 629.243+/-0.085 χ^2/NDF : 14454362.8/54

Out: 635.695+/-0.084 χ^2/NDF : 16246586.0/60

All: 632.525+/-0.060 χ^2/NDF : 30703868.3/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -59.198 ± 37.939 χ^2/NDF : 20.1/31

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -82.237 ± 36.994 χ^2/NDF : 48.4/35

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

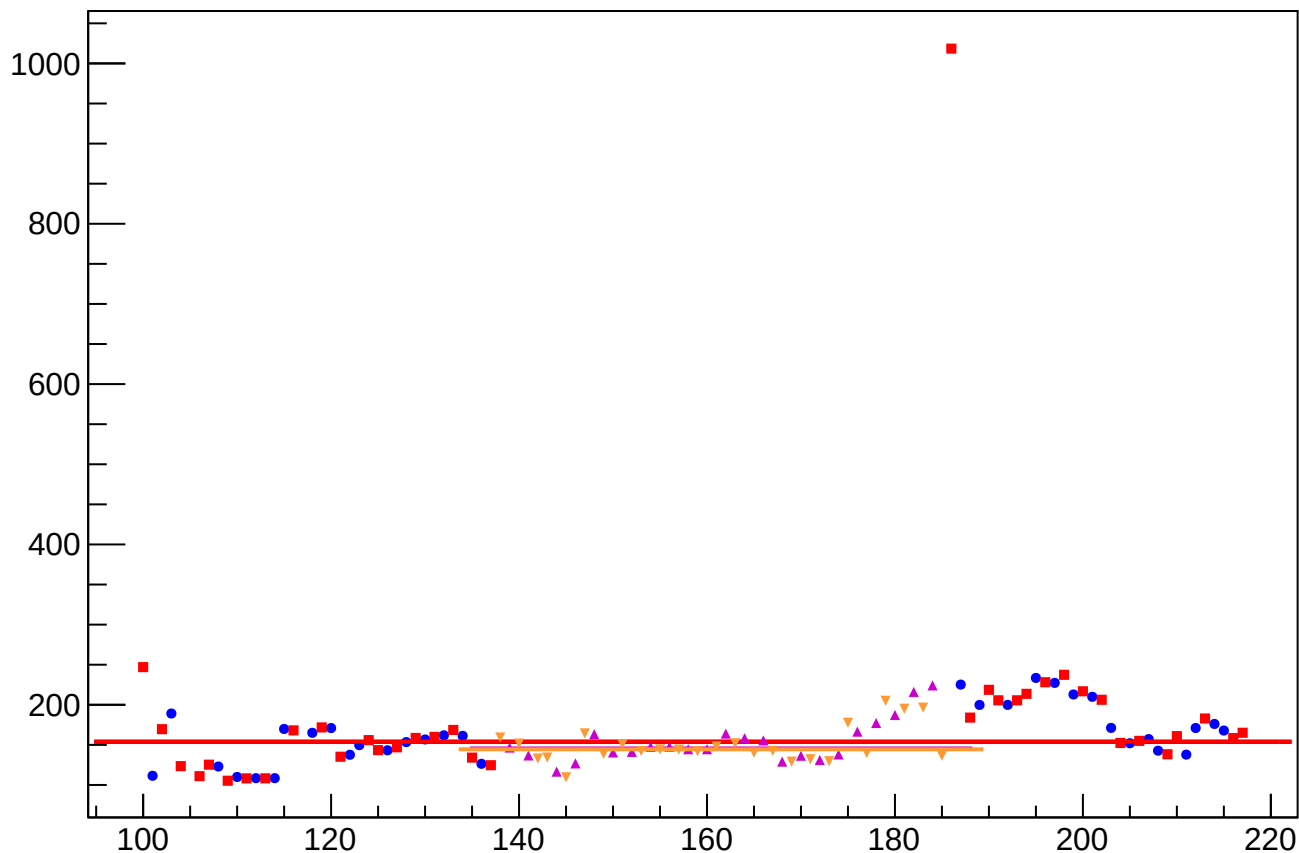
Right: -71.008 ± 26.487 χ^2/NDF : 68.7/67

In: -0.158 ± 25.836 χ^2/NDF : 48.1/54

Out: 12.619 ± 25.055 χ^2/NDF : 89.9/60

All: 6.427 ± 17.986 χ^2/NDF : 138.1/115

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 153.810 $\pm$ 0.027 χ^2 /NDF: 1529964.5/31

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.176 $\pm$ 0.026 χ^2 /NDF: 2331336.7/35

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

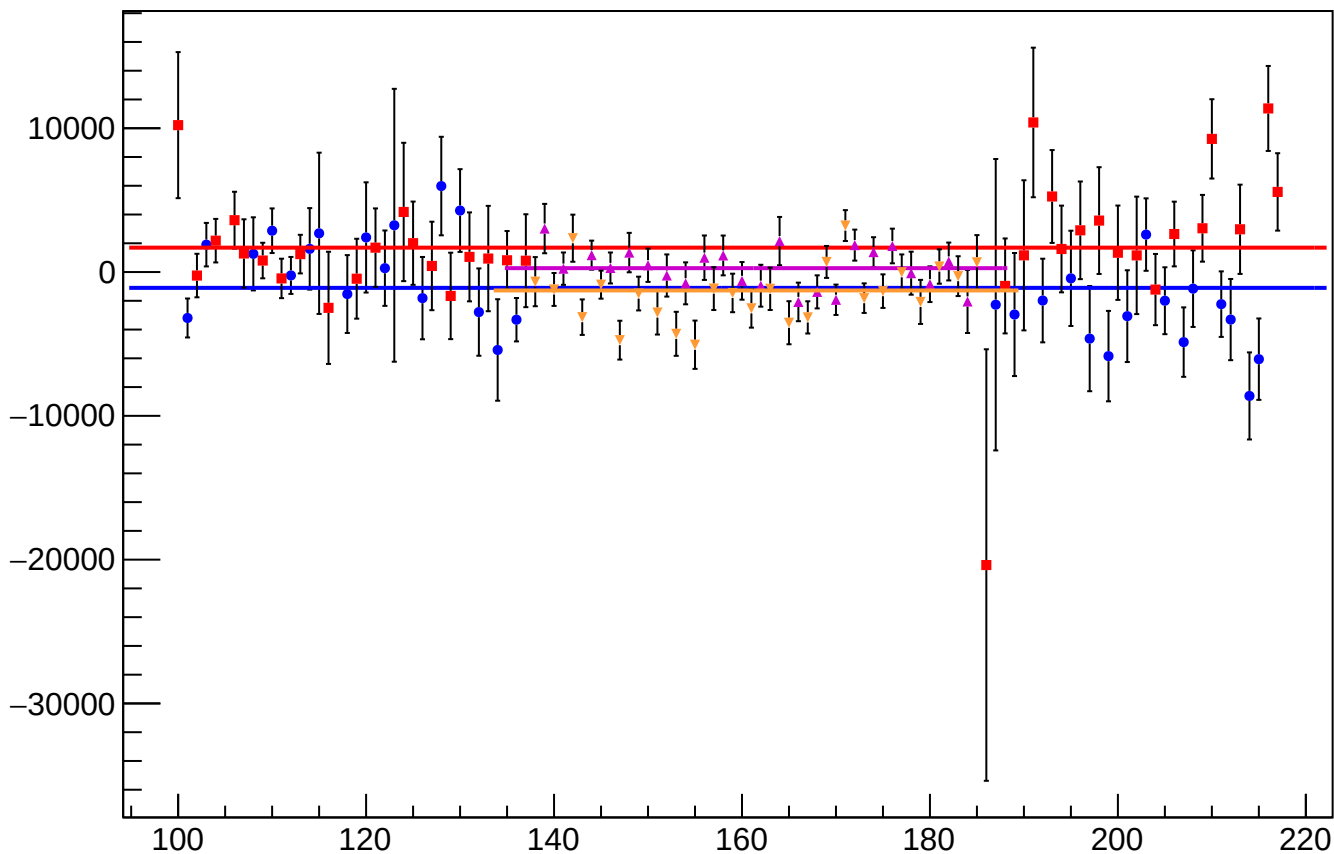
Right: 153.998 $\pm$ 0.019 χ^2 /NDF: 3861396.4/67

In: 149.372 $\pm$ 0.018 χ^2 /NDF: 2224526.6/54

Out: 148.925 $\pm$ 0.018 χ^2 /NDF: 3076266.7/60

All: 149.142 $\pm$ 0.013 χ^2 /NDF: 5301102.7/115

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1100.426 ± 430.959 $\chi^2/\text{NDF}: 47.5/31$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1696.070 ± 407.099 $\chi^2/\text{NDF}: 42.0/35$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

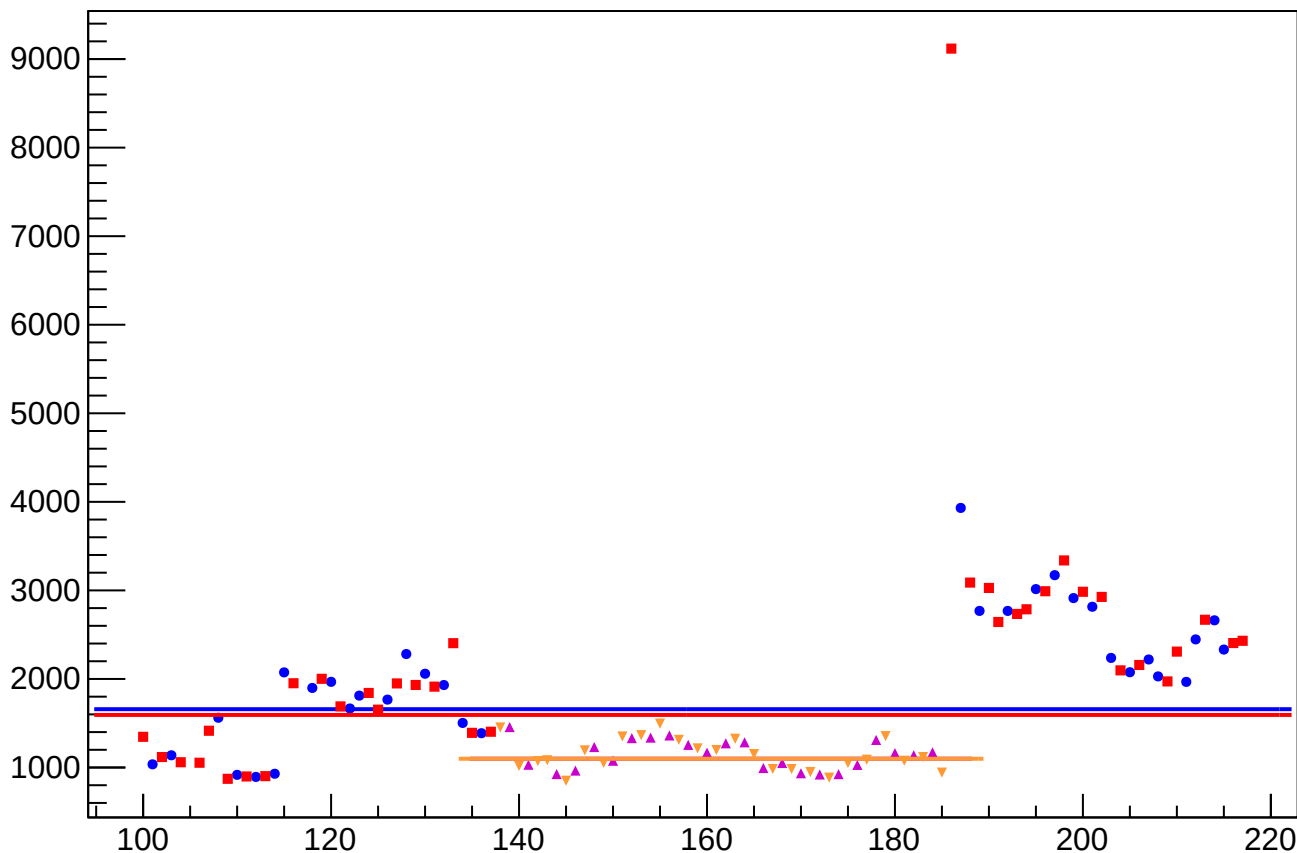
Right: 377.377 ± 295.938 $\chi^2/\text{NDF}: 111.8/67$

In: -108.601 ± 226.506 $\chi^2/\text{NDF}: 79.1/54$

Out: -420.600 ± 218.703 $\chi^2/\text{NDF}: 136.0/60$

All: -270.067 ± 157.333 $\chi^2/\text{NDF}: 216.0/115$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1658.536 $\pm$ 0.305 χ^2 /NDF: 4818251.6/31

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1593.853 $\pm$ 0.288 χ^2 /NDF: 6644228.1/35

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

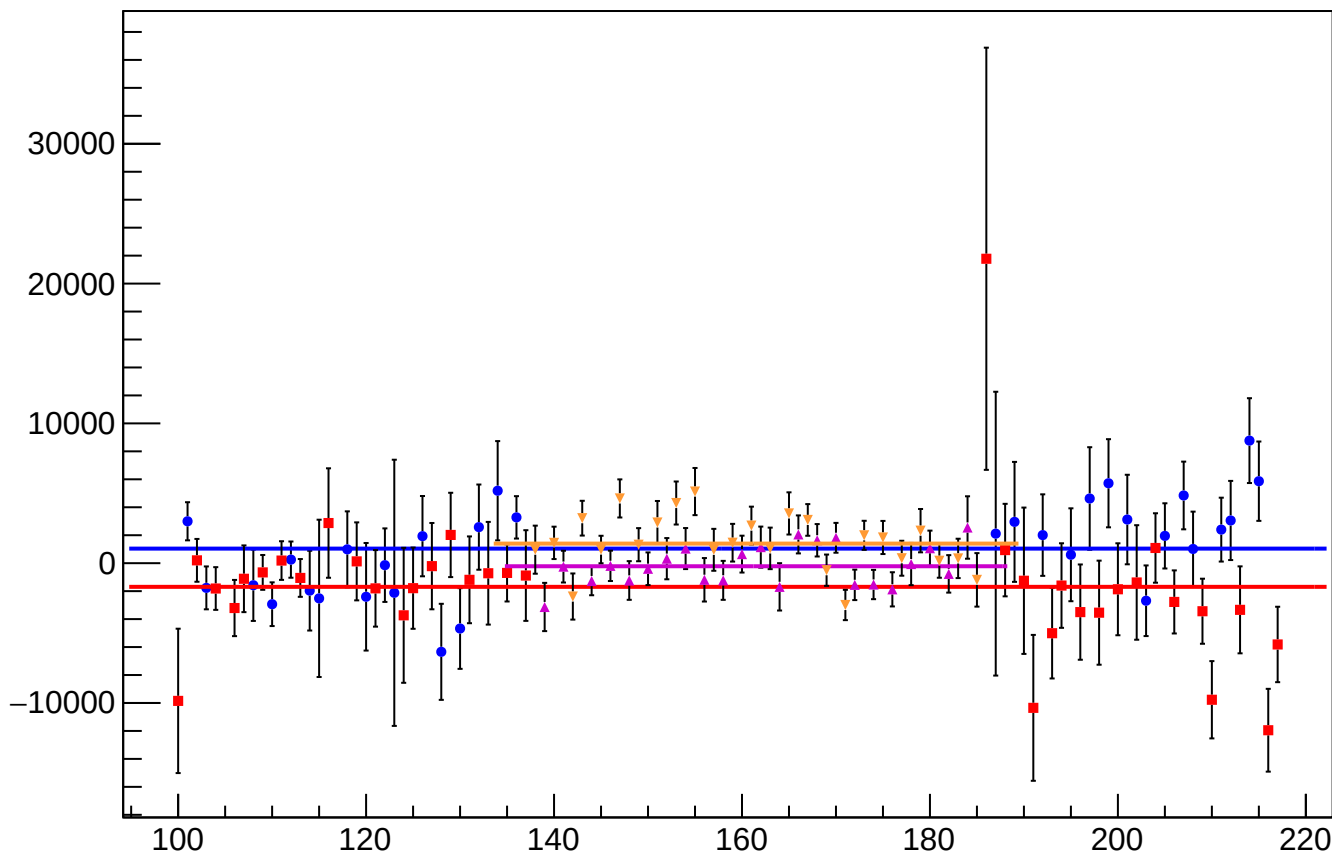
Right: 1624.354 $\pm$ 0.209 χ^2 /NDF: 11486288.8/67

In: 1253.990 $\pm$ 0.160 χ^2 /NDF: 7933153.5/54

Out: 1241.754 $\pm$ 0.155 χ^2 /NDF: 9571609.6/60

All: 1247.658 $\pm$ 0.111 χ^2 /NDF: 17507783.2/1

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1042.519+/-433.227 χ^2/NDF : 47.3/31

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1692.345+/-409.631 χ^2/NDF : 44.1/35

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

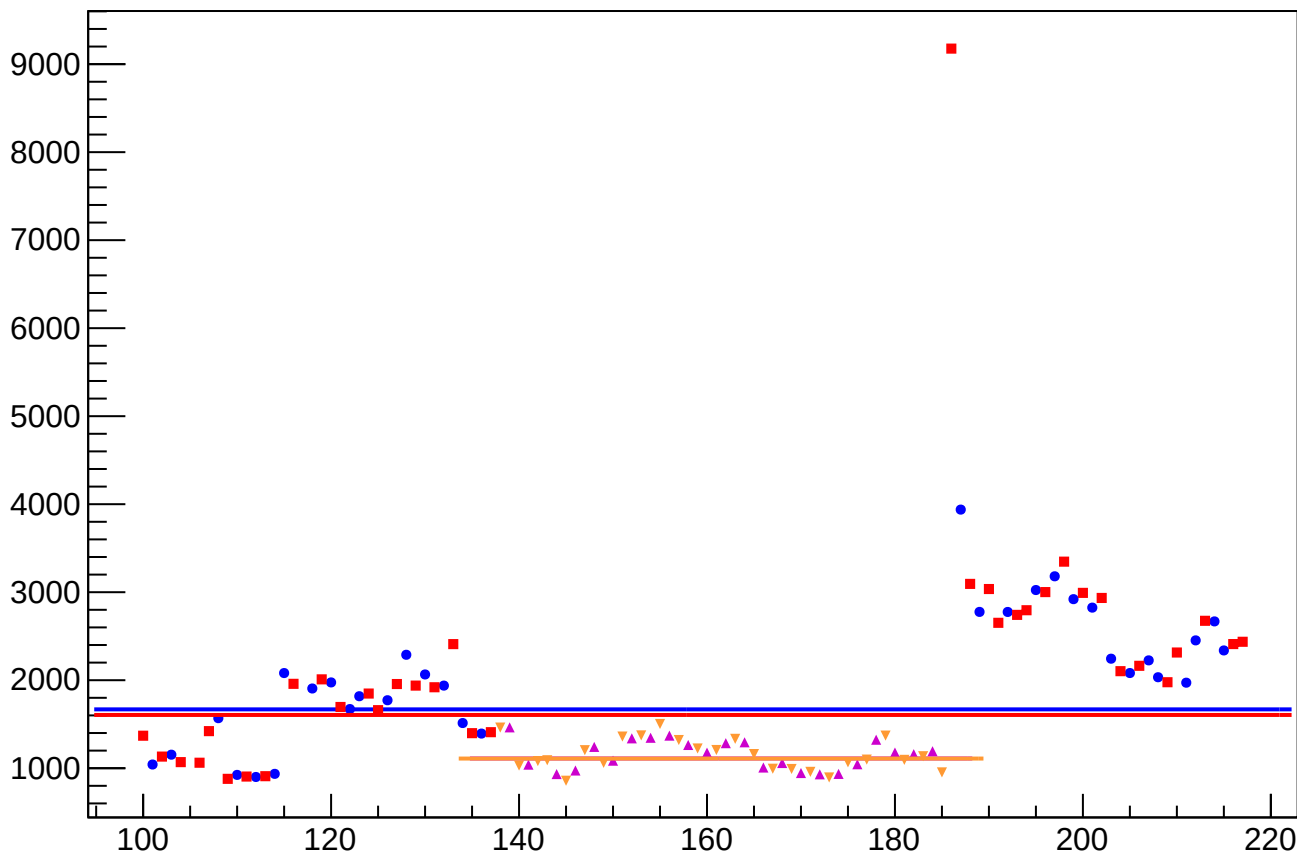
Right: -401.416+/-297.645 χ^2/NDF : 112.4/67

In: 131.471+/-228.439 χ^2/NDF : 78.4/54

Out: 503.504+/-220.598 χ^2/NDF : 136.8/60

All: 323.982+/-158.686 χ^2/NDF : 216.6/115

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1668.726+/-0.306 χ^2/NDF : 4767547.3/31

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1605.285+/-0.290 χ^2/NDF : 6576735.0/35

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

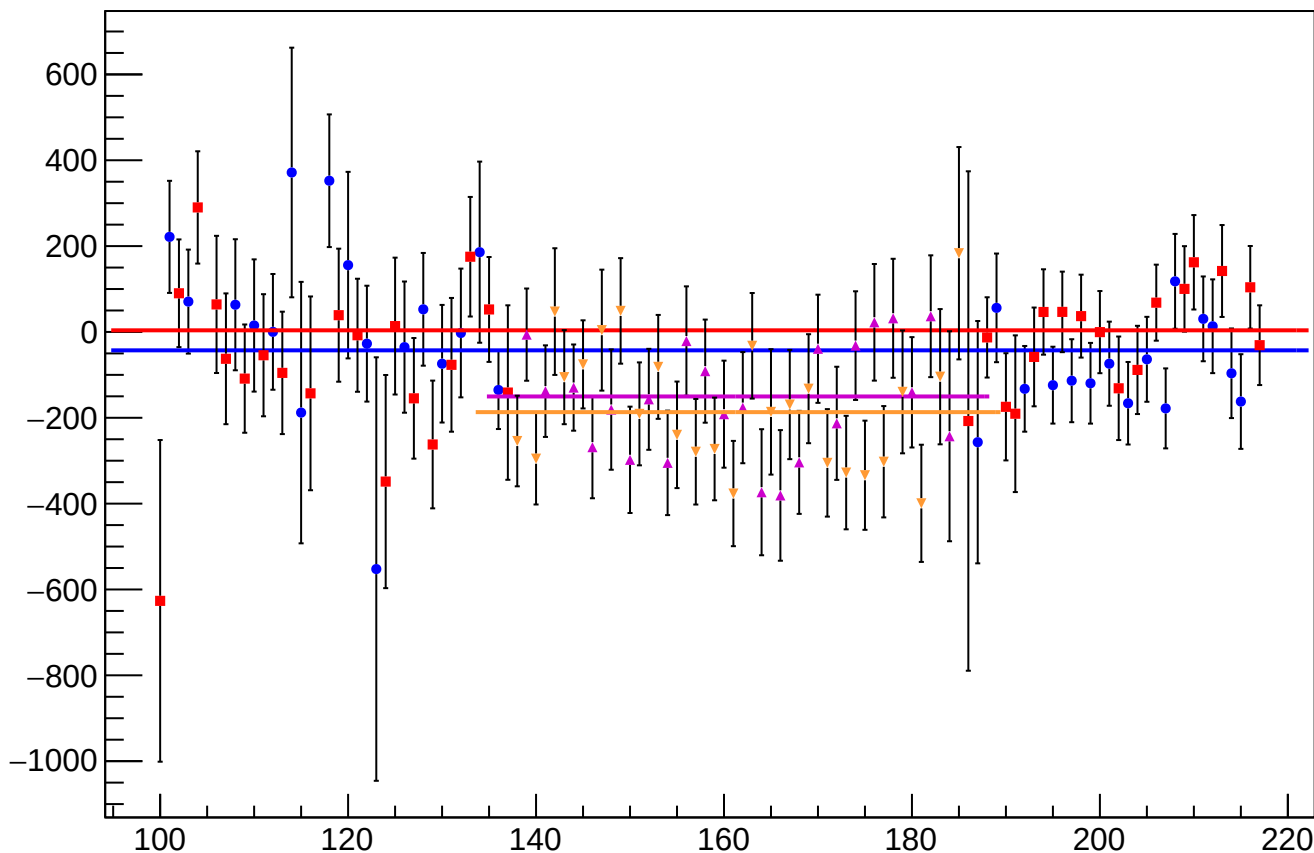
Right: 1635.231+/-0.210 χ^2/NDF : 11366925.9/67

In: 1265.740+/-0.162 χ^2/NDF : 7834467.9/54

Out: 1253.470+/-0.156 χ^2/NDF : 9466808.1/60

All: 1259.391+/-0.112 χ^2/NDF : 17304261.7/131

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -42.874 ± 21.590 χ^2/NDF : 31.6/31

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 3.771 ± 20.714 χ^2/NDF : 31.9/35

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

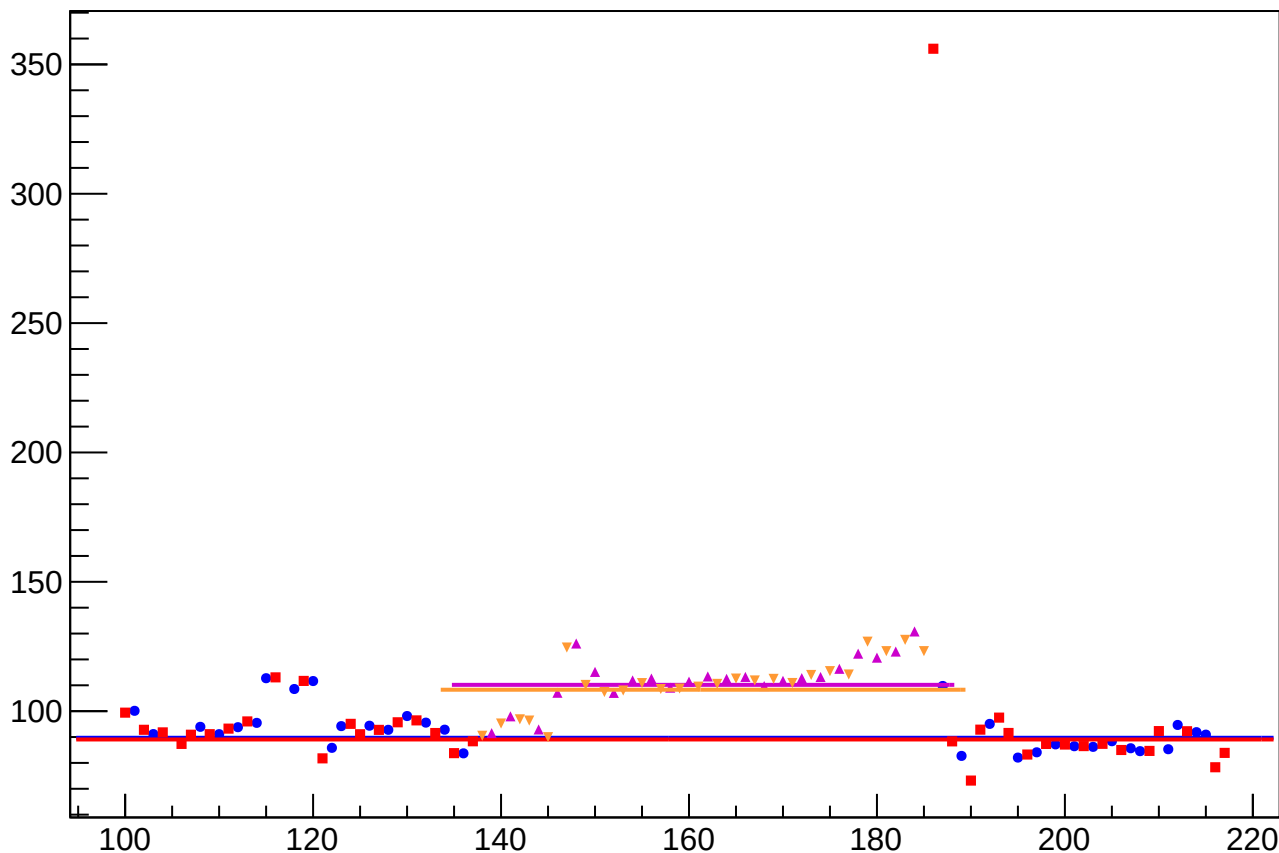
Right: -18.586 ± 14.947 χ^2/NDF : 65.9/67

In: -85.846 ± 16.724 χ^2/NDF : 62.1/54

Out: -72.695 ± 16.030 χ^2/NDF : 92.5/60

All: -78.991 ± 11.572 χ^2/NDF : 155.0/115

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.716 $\pm$ 0.015 χ^2 /NDF: 170924.3/31

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.057 $\pm$ 0.015 χ^2 /NDF: 619079.2/35

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

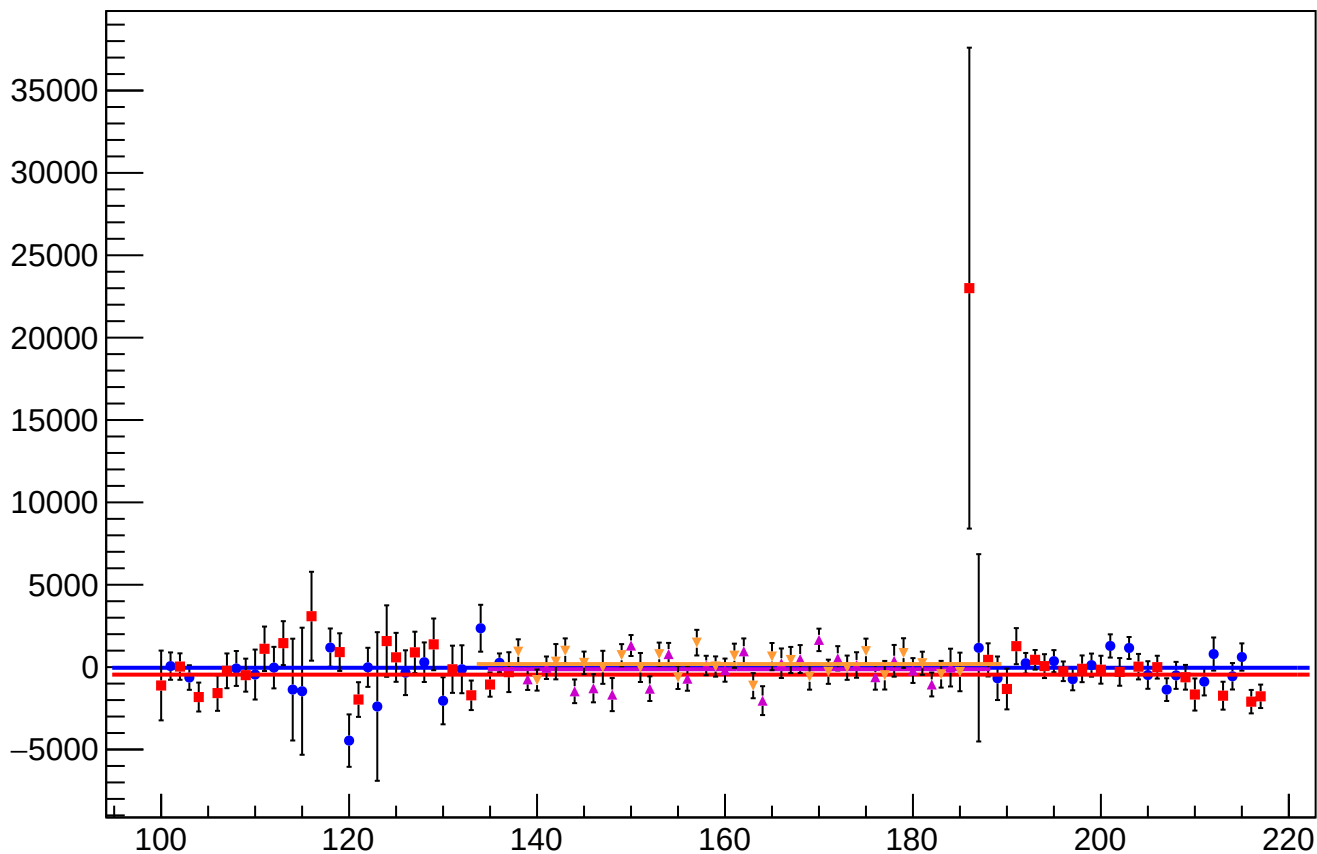
Right: 89.373 $\pm$ 0.011 χ^2 /NDF: 790973.5/67

In: 97.898 $\pm$ 0.012 χ^2 /NDF: 1136043.4/54

Out: 96.772 $\pm$ 0.011 χ^2 /NDF: 1641271.3/60

All: 97.311 $\pm$ 0.008 χ^2 /NDF: 2782042.9/115

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -39.741 ± 163.619 χ^2/NDF : 31.1/31

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -456.140 ± 156.199 χ^2/NDF : 42.3/35

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

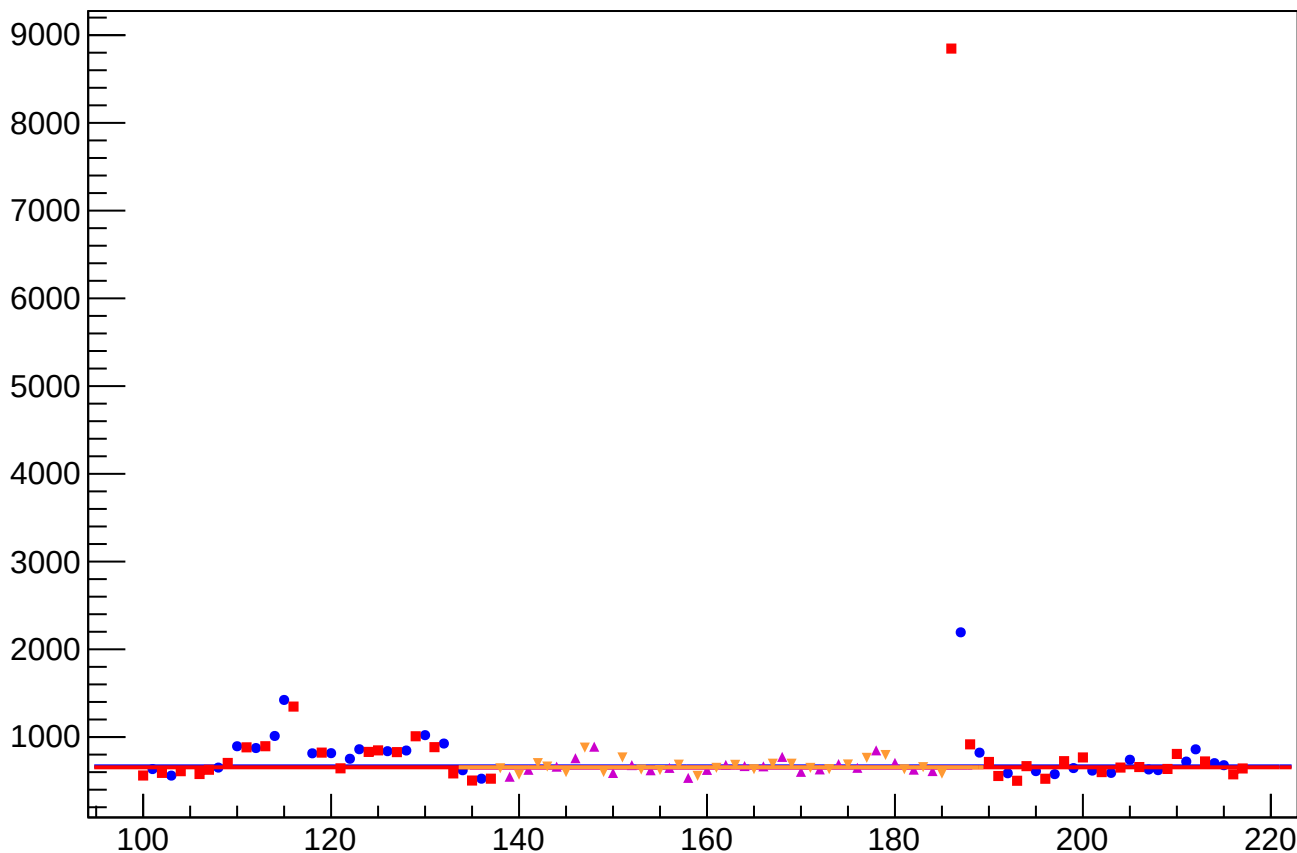
Right: -257.596 ± 112.981 χ^2/NDF : 76.8/67

In: -86.055 ± 113.342 χ^2/NDF : 67.5/54

Out: -130.166 ± 109.549 χ^2/NDF : 69.2/60

All: -108.861 ± 78.770 χ^2/NDF : 136.8/115

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 666.141+/-0.116 χ^2/NDF : 1102303.3/31

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 655.021+/-0.110 χ^2/NDF : 1854294.3/35

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

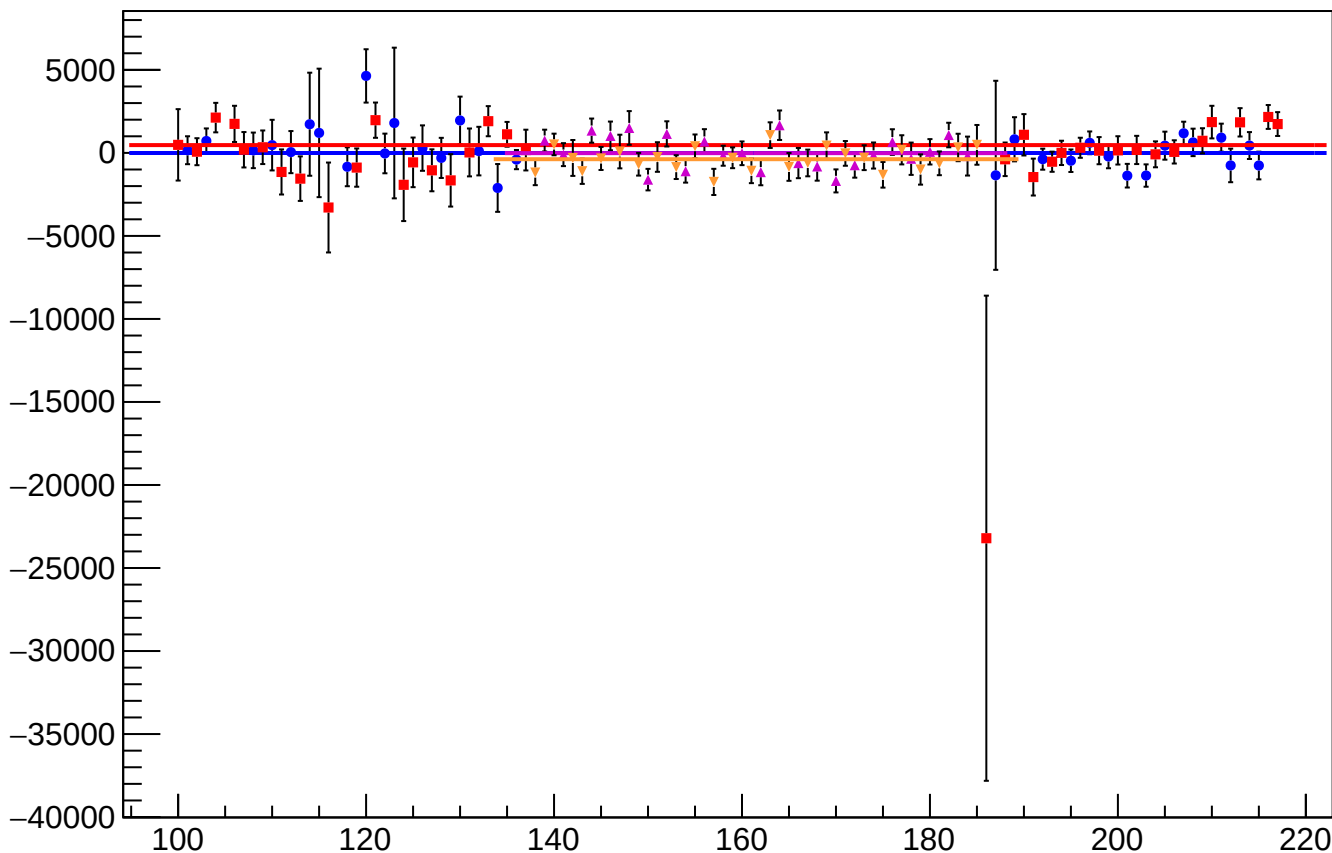
Right: 660.323+/-0.080 χ^2/NDF : 2961430.4/67

In: 658.205+/-0.080 χ^2/NDF : 1577466.0/54

Out: 655.089+/-0.077 χ^2/NDF : 2221644.8/60

All: 656.594+/-0.056 χ^2/NDF : 3799892.0/115

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -5.863 ± 165.227 χ^2/NDF : 31.6/31

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 469.539 ± 157.815 χ^2/NDF : 47.0/35

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

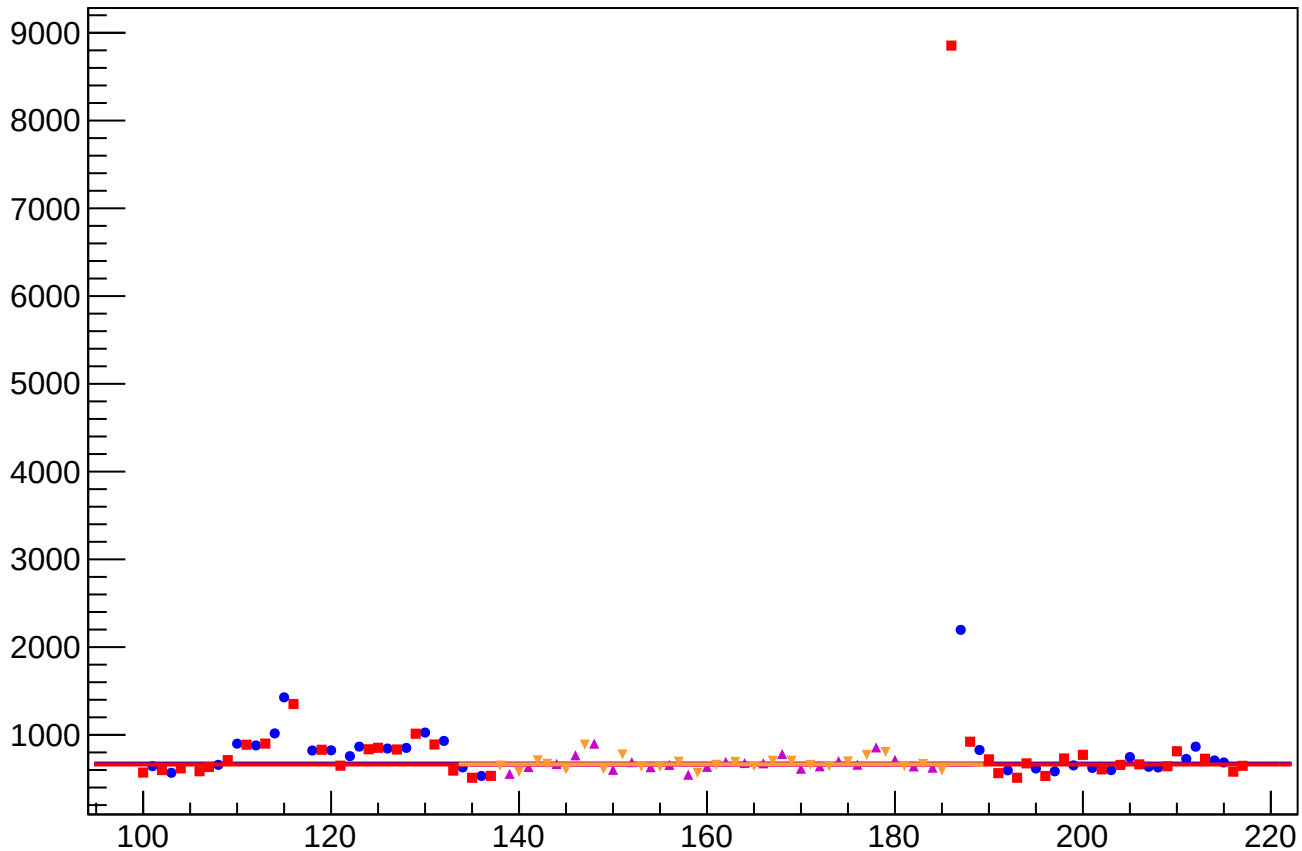
Right: 242.741 ± 114.123 χ^2/NDF : 83.0/67

In: -10.472 ± 114.760 χ^2/NDF : 68.8/54

Out: 39.831 ± 110.906 χ^2/NDF : 80.5/60

All: 15.538 ± 79.750 χ^2/NDF : 149.4/115

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 673.082+/-0.117 χ^2/NDF : 1077111.4/31

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 662.309+/-0.112 χ^2/NDF : 1816642.2/35

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

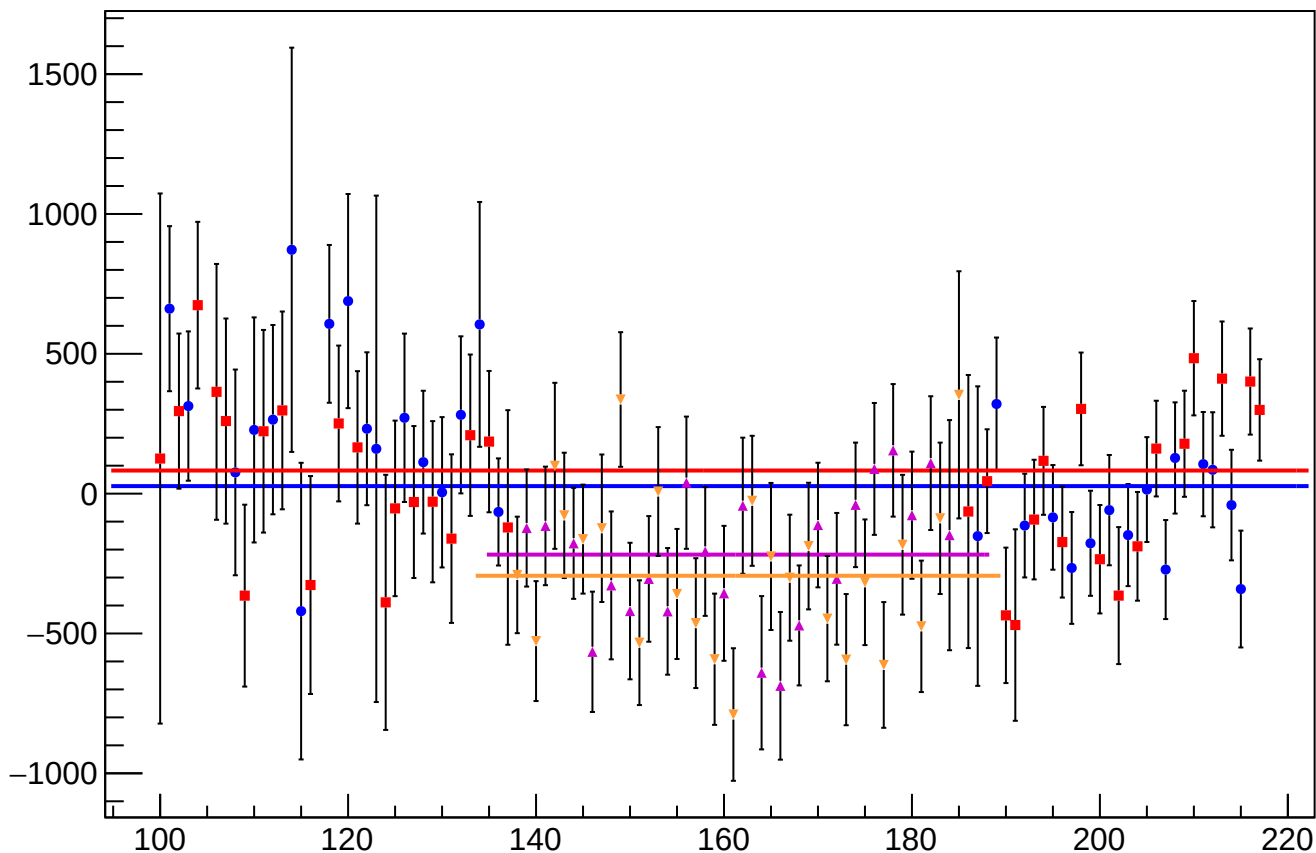
Right: 667.449+/-0.081 χ^2/NDF : 2898199.3/67

In: 666.772+/-0.081 χ^2/NDF : 1531927.4/54

Out: 663.556+/-0.078 χ^2/NDF : 2173942.6/60

All: 665.109+/-0.056 χ^2/NDF : 3706682.0/115

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

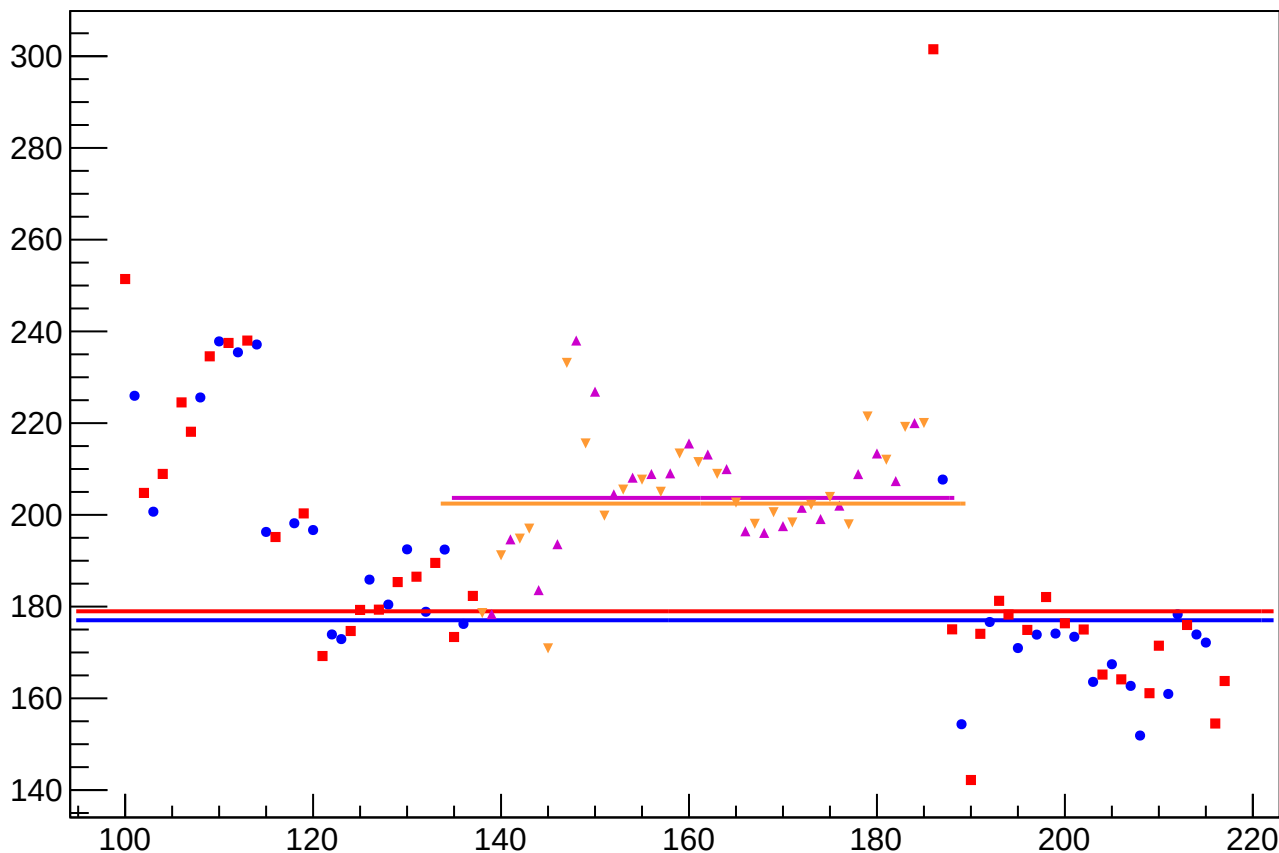


Right In: 26.934 ± 42.752 $\chi^2/\text{NDF}: 33.6/31$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 82.662 ± 41.671 $\chi^2/\text{NDF}: 41.9/35$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 55.512 ± 29.841 $\chi^2/\text{NDF}: 76.4/67$
 In: -79.361 ± 32.163 $\chi^2/\text{NDF}: 69.1/54$
 Out: -82.136 ± 31.240 $\chi^2/\text{NDF}: 107.9/60$

All: -80.789 ± 22.409 $\chi^2/\text{NDF}: 177.1/115$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 177.022+/-0.030 χ^2/NDF : 361519.7/31

Left Out: 202.459+/-0.033 χ^2/NDF :158582.3/24

Right Out: 178.976+/-0.029 χ^2/NDF : 551231.9/35

Left In: 203.699+/-0.035 χ^2/NDF :136193.4/22

Left: 203.058+/-0.024 χ^2/NDF : 295442.7/47

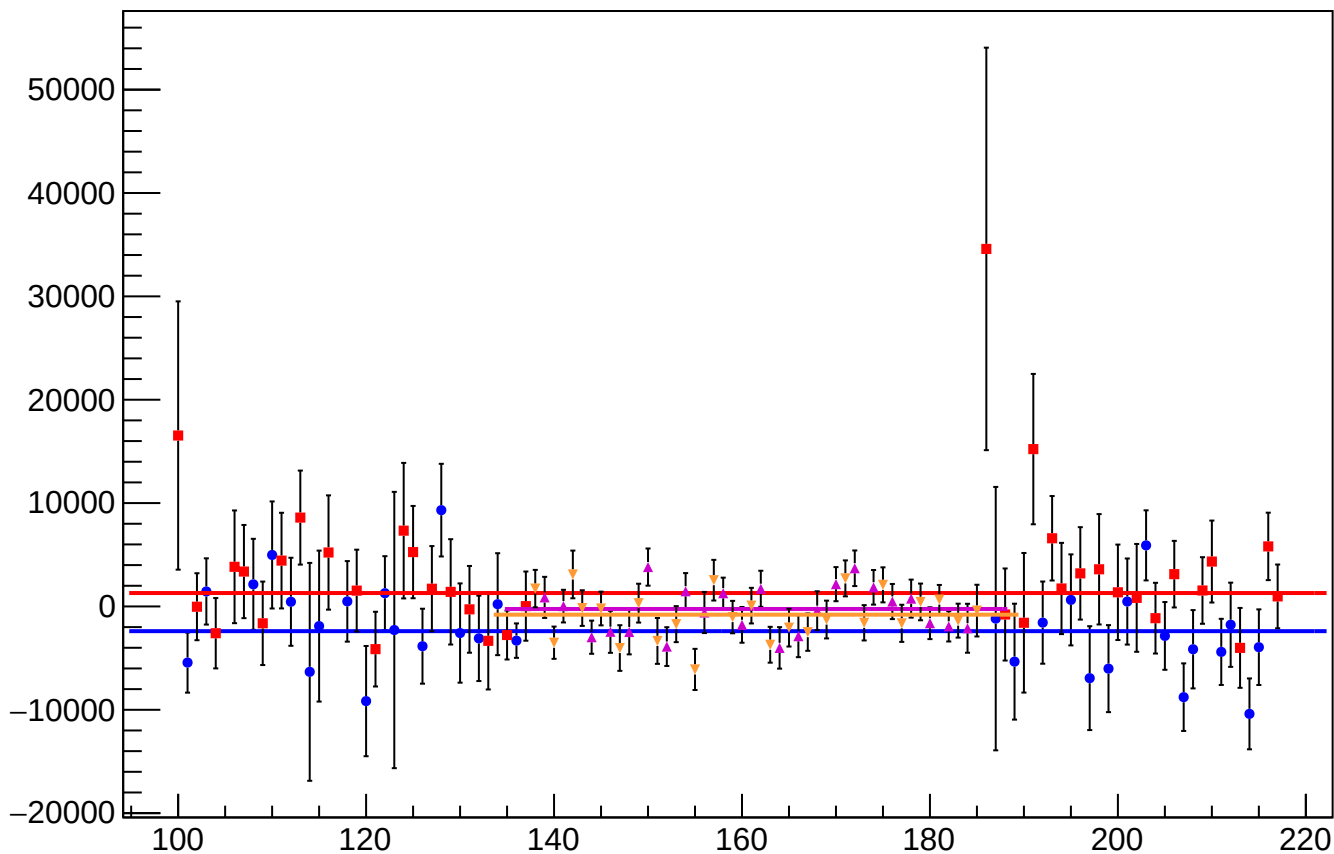
Right: 178.024+/-0.021 χ^2/NDF : 914893.5/67

In: 188.601+/-0.023 χ^2/NDF :835703.2/54

Out: 189.261+/-0.022 χ^2/NDF :987997.6/60

All: 188.941+/-0.016 χ^2/NDF : 1824134.7/115

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2391.085 $\pm$ 679.112 χ^2 /NDF: 35.9/31

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1297.191 $\pm$ 686.509 χ^2 /NDF: 29.7/35

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

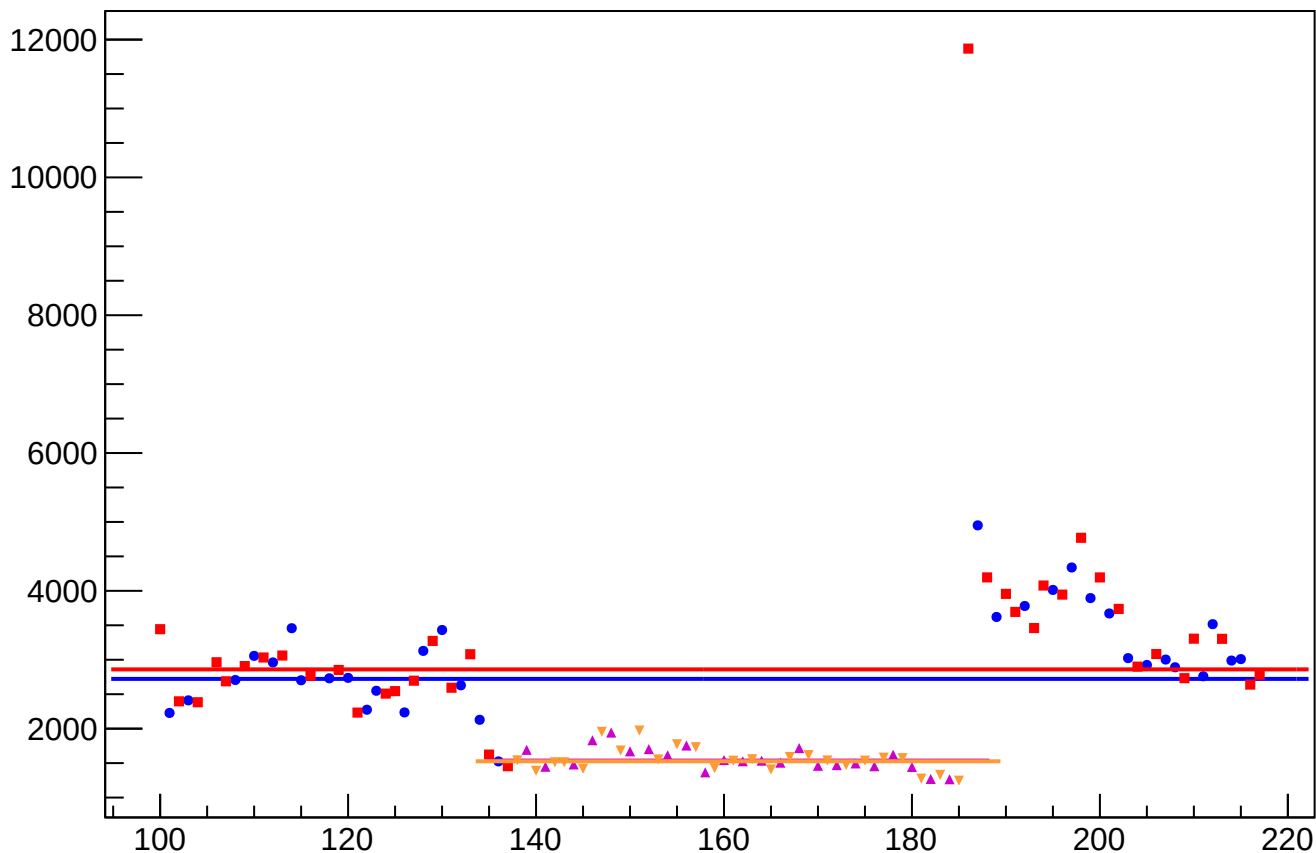
Right: -566.925 $\pm$ 482.799 χ^2 /NDF: 80.2/67

In: -735.990 $\pm$ 324.803 χ^2 /NDF: 79.3/54

Out: -349.185 $\pm$ 317.327 χ^2 /NDF: 72.8/60

All: -538.085 $\pm$ 226.981 χ^2 /NDF: 152.8/115

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2722.214 $\pm$ 0.480 χ^2 /NDF: 2326692.5/31

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2860.371 $\pm$ 0.485 χ^2 /NDF: 2652655.6/35

Left In: 1536.538 $\pm$ 0.262 χ^2 /NDF: 350373.3/22

Left: 1531.463 $\pm$ 0.182 χ^2 /NDF: 745995.2/47

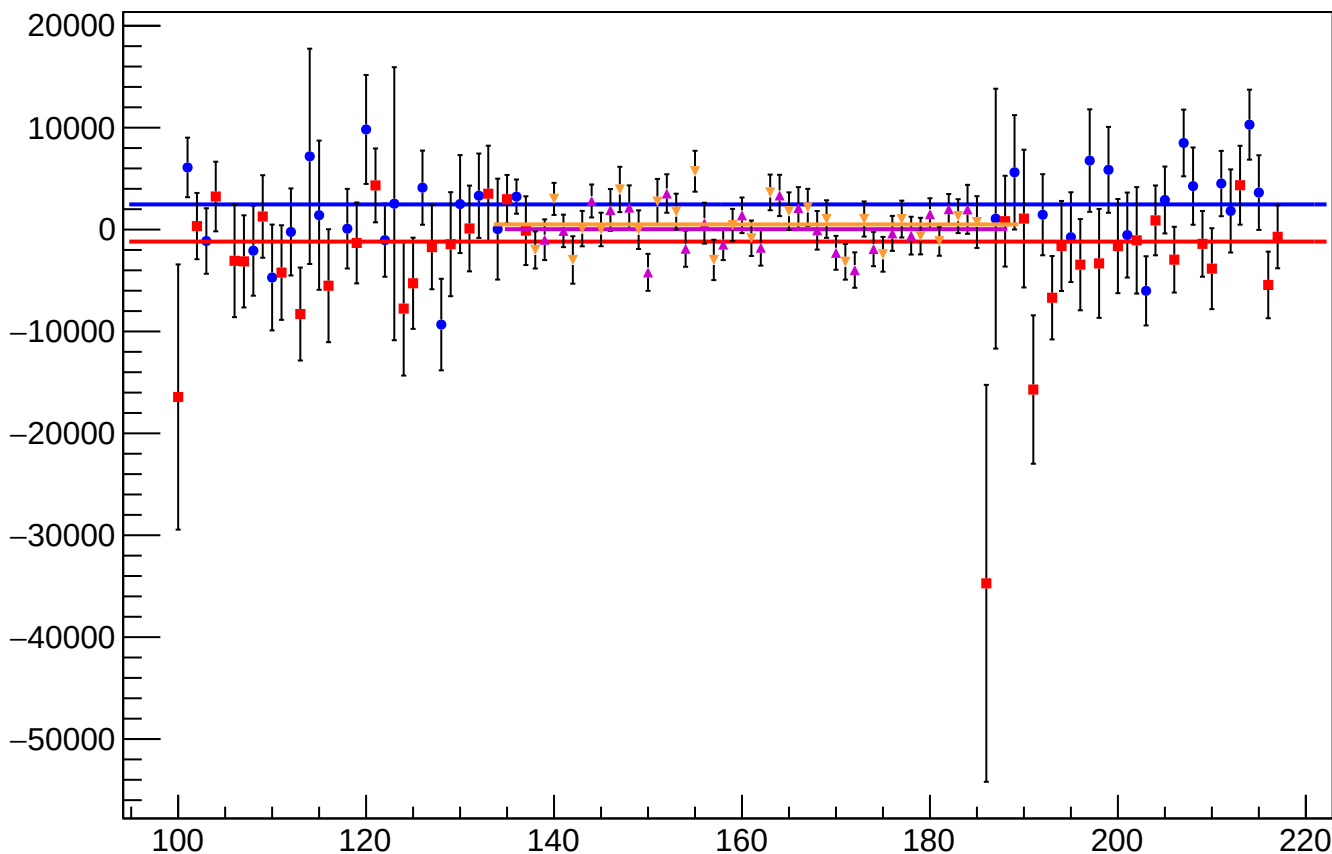
Right: 2790.544 $\pm$ 0.341 χ^2 /NDF: 5020286.5/67

In: 1807.758 $\pm$ 0.230 χ^2 /NDF: 7378999.5/54

Out: 1811.661 $\pm$ 0.224 χ^2 /NDF: 8982782.2/60

All: 1809.755 $\pm$ 0.160 χ^2 /NDF: 16361929.4/111

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2469.282 $\pm$ 681.195 χ^2 /NDF: 35.6/31

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1180.090 $\pm$ 688.456 χ^2 /NDF: 30.2/35

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

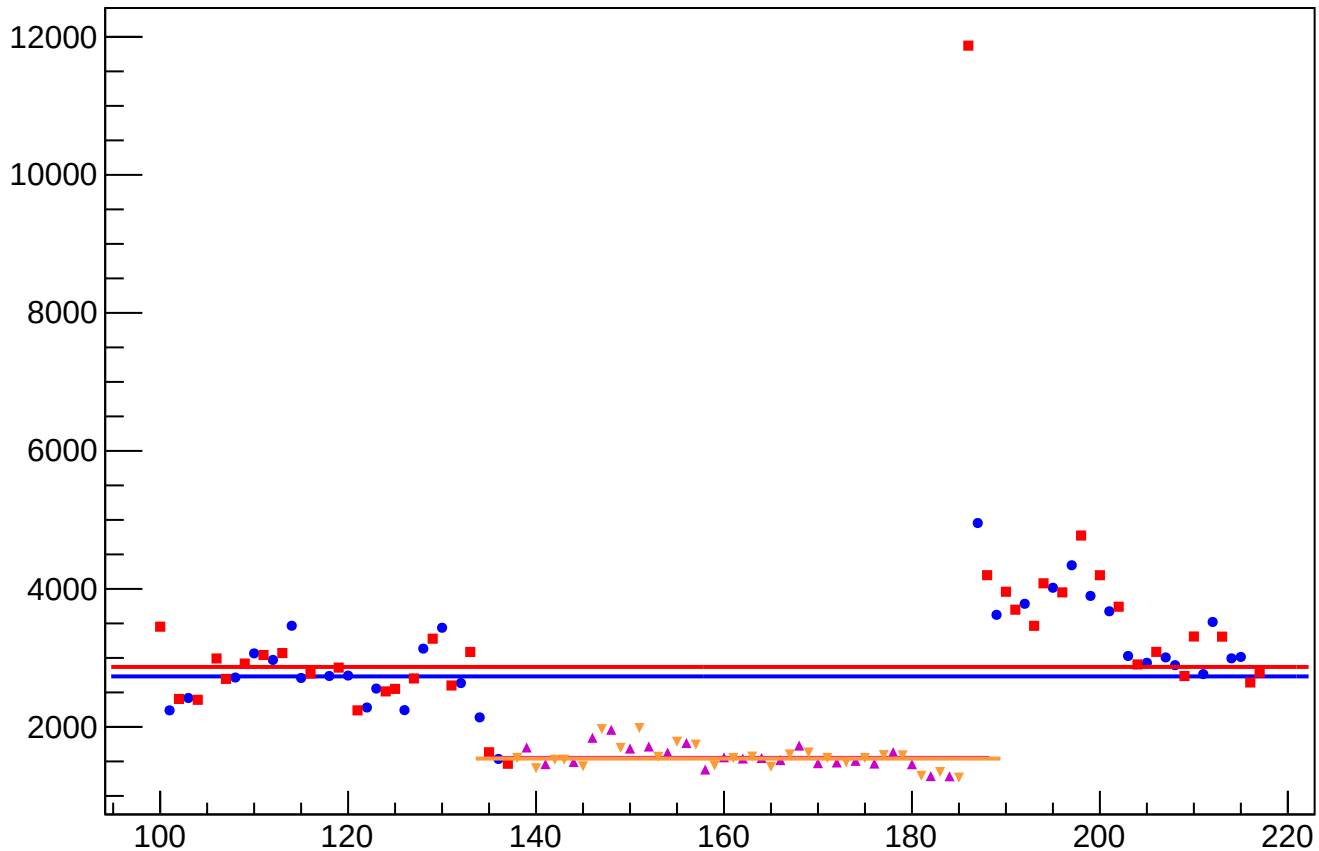
Right: 663.942 $\pm$ 484.225 χ^2 /NDF: 80.0/67

In: 601.023 $\pm$ 327.340 χ^2 /NDF:79.0/54

Out: 143.662 $\pm$ 319.832 χ^2 /NDF:70.3/60

All: 367.037 $\pm$ 228.764 χ^2 /NDF: 150.3/115

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2732.052 $\pm$ 0.482 χ^2 /NDF: 2293583.1/31

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF:382045.4/24

Right Out: 2869.365 $\pm$ 0.487 χ^2 /NDF: 2627031.8/35

Left In: 1551.063 $\pm$ 0.264 χ^2 /NDF:338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2 /NDF: 721657.1/47

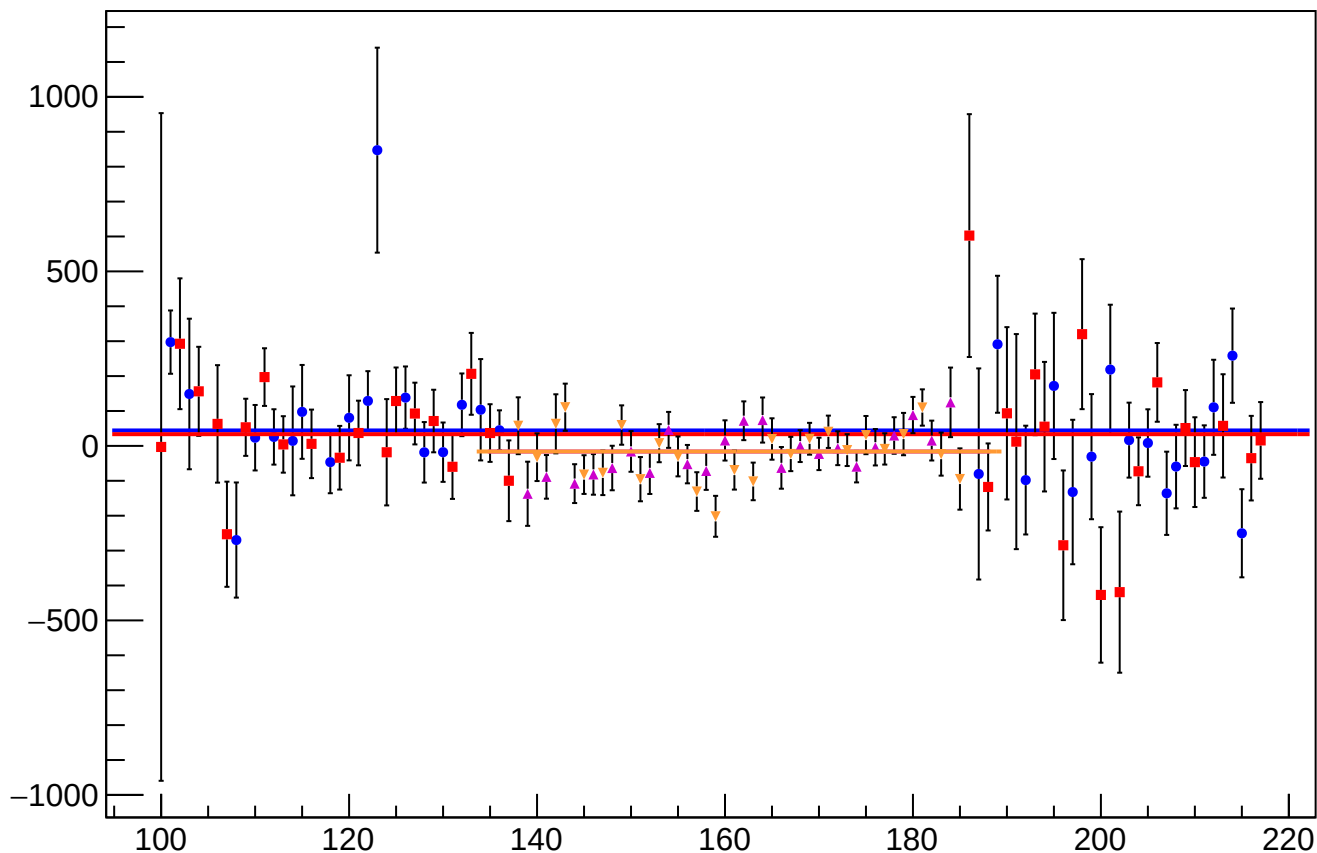
Right: 2799.981 $\pm$ 0.342 χ^2 /NDF: 4960816.9/67

In: 1823.774 $\pm$ 0.231 χ^2 /NDF:7255778.1/54

Out: 1827.891 $\pm$ 0.226 χ^2 /NDF:8845662.7/60

All: 1825.880 $\pm$ 0.162 χ^2 /NDF: 16101602.7/121

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 44.210 ± 19.807 χ^2/NDF : 41.4/31

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 33.558 ± 19.795 χ^2/NDF : 39.9/35

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

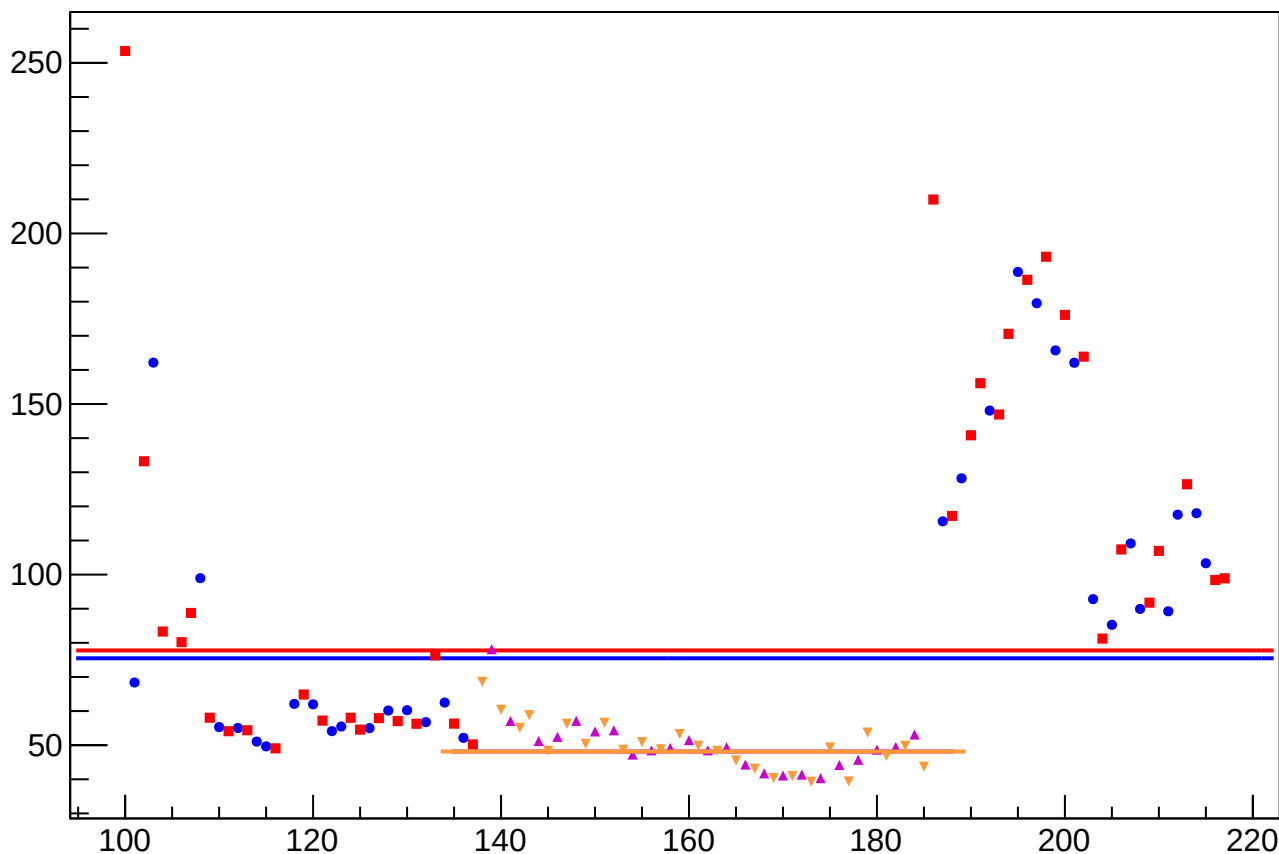
Right: 38.881 ± 14.001 χ^2/NDF : 81.4/67

In: -0.645 ± 10.041 χ^2/NDF : 73.6/54

Out: -3.792 ± 9.840 χ^2/NDF : 84.2/60

All: -2.251 ± 7.028 χ^2/NDF : 157.9/115

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 75.474+/-0.014 χ^2/NDF : 5025666.3/31

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 77.777+/-0.014 χ^2/NDF : 5802749.3/35

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

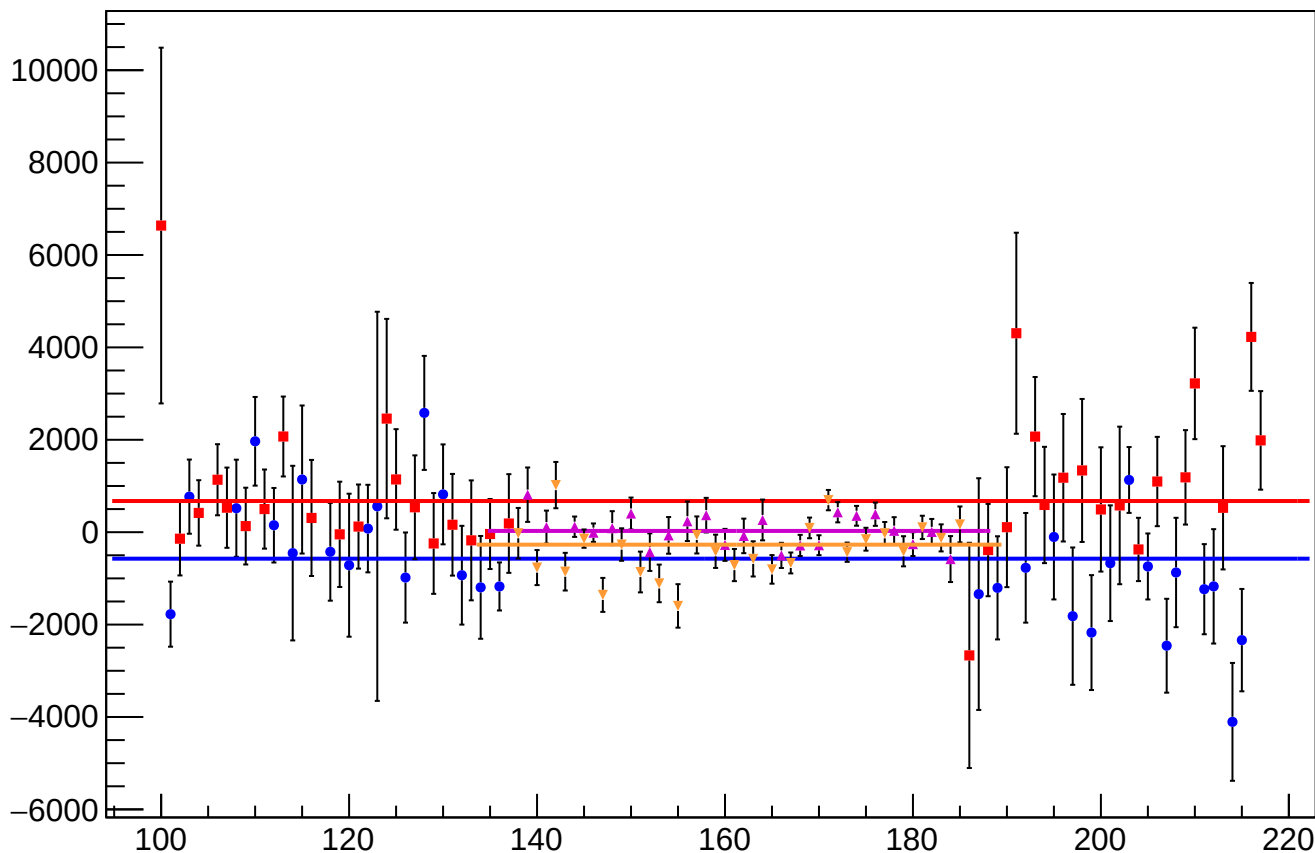
Right: 76.626+/-0.010 χ^2/NDF : 10841946.9/67

In: 55.165+/-0.007 χ^2/NDF : 8430821.2/54

Out: 55.464+/-0.007 χ^2/NDF : 9833382.8/60

All: 55.317+/-0.005 χ^2/NDF : 18265109.0/115

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -573.403 ± 179.923 $\chi^2/\text{NDF}: 49.5/31$

Left Out: -270.214 ± 60.177 $\chi^2/\text{NDF}: 70.1/24$

Right Out: 674.702 ± 176.198 $\chi^2/\text{NDF}: 36.7/35$

Left In: 27.271 ± 60.430 $\chi^2/\text{NDF}: 25.1/22$

Left: -122.095 ± 42.641 $\chi^2/\text{NDF}: 107.3/47$

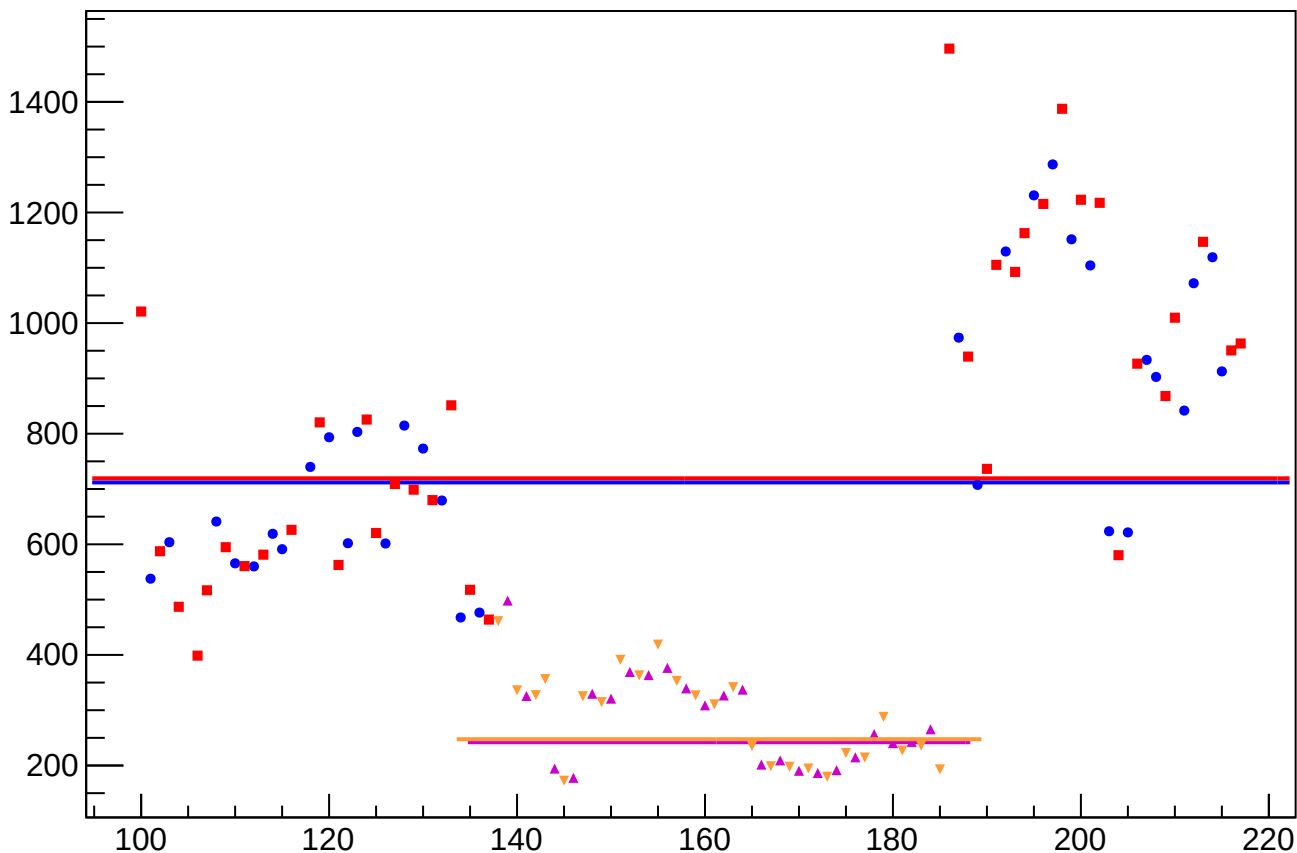
Right: 63.704 ± 125.887 $\chi^2/\text{NDF}: 110.8/67$

In: -33.620 ± 57.285 $\chi^2/\text{NDF}: 84.6/54$

Out: -171.507 ± 56.948 $\chi^2/\text{NDF}: 132.6/60$

All: -102.971 ± 40.387 $\chi^2/\text{NDF}: 220.1/115$

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 711.874 $\pm$ 0.127 χ^2 /NDF: 2883905.1/31

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 719.332 $\pm$ 0.125 χ^2 /NDF: 3873236.6/35

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

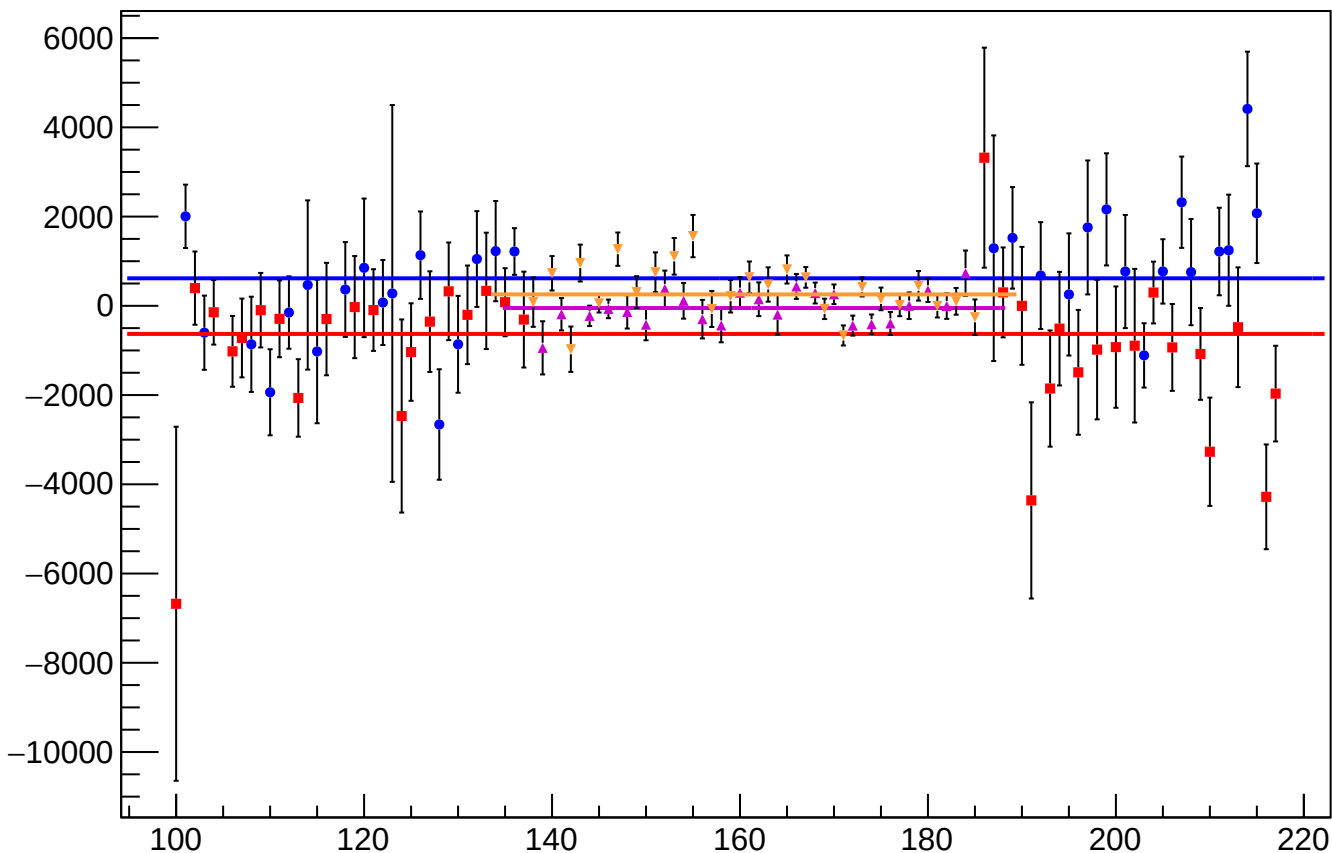
Right: 715.681 $\pm$ 0.089 χ^2 /NDF: 6758895.6/67

In: 289.737 $\pm$ 0.041 χ^2 /NDF: 17601370.5/54

Out: 296.851 $\pm$ 0.040 χ^2 /NDF: 19493982.2/60

All: 293.315 $\pm$ 0.029 χ^2 /NDF: 37110865.8/111

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 616.696 $\pm$ 181.531 χ^2/NDF : 50.7/31

Left Out: 255.995 $\pm$ 61.418 χ^2/NDF : 63.6/24

Right Out: -629.774 $\pm$ 178.056 χ^2/NDF : 37.9/35

Left In: -49.832 $\pm$ 61.781 χ^2/NDF : 27.5/22

Left: 103.982 $\pm$ 43.557 χ^2/NDF : 103.4/47

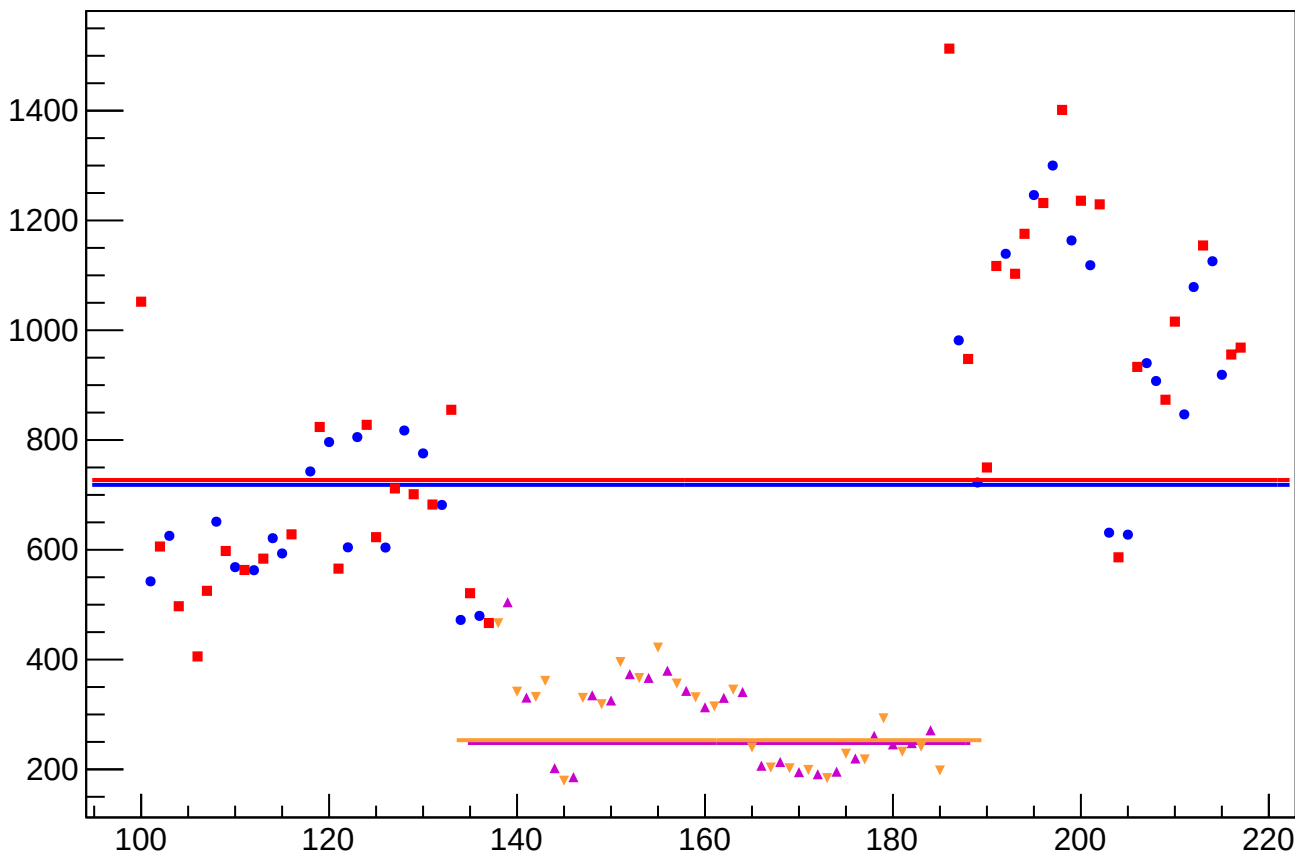
Right: -18.586 $\pm$ 127.115 χ^2/NDF : 112.6/67

In: 19.356 $\pm$ 58.487 χ^2/NDF : 90.3/54

Out: 161.810 $\pm$ 58.061 χ^2/NDF : 123.6/60

All: 91.103 $\pm$ 41.205 χ^2/NDF : 216.9/115

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 718.325+/-0.128 χ^2/NDF : 2880637.8/31

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 727.184+/-0.126 χ^2/NDF : 3831236.8/35

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

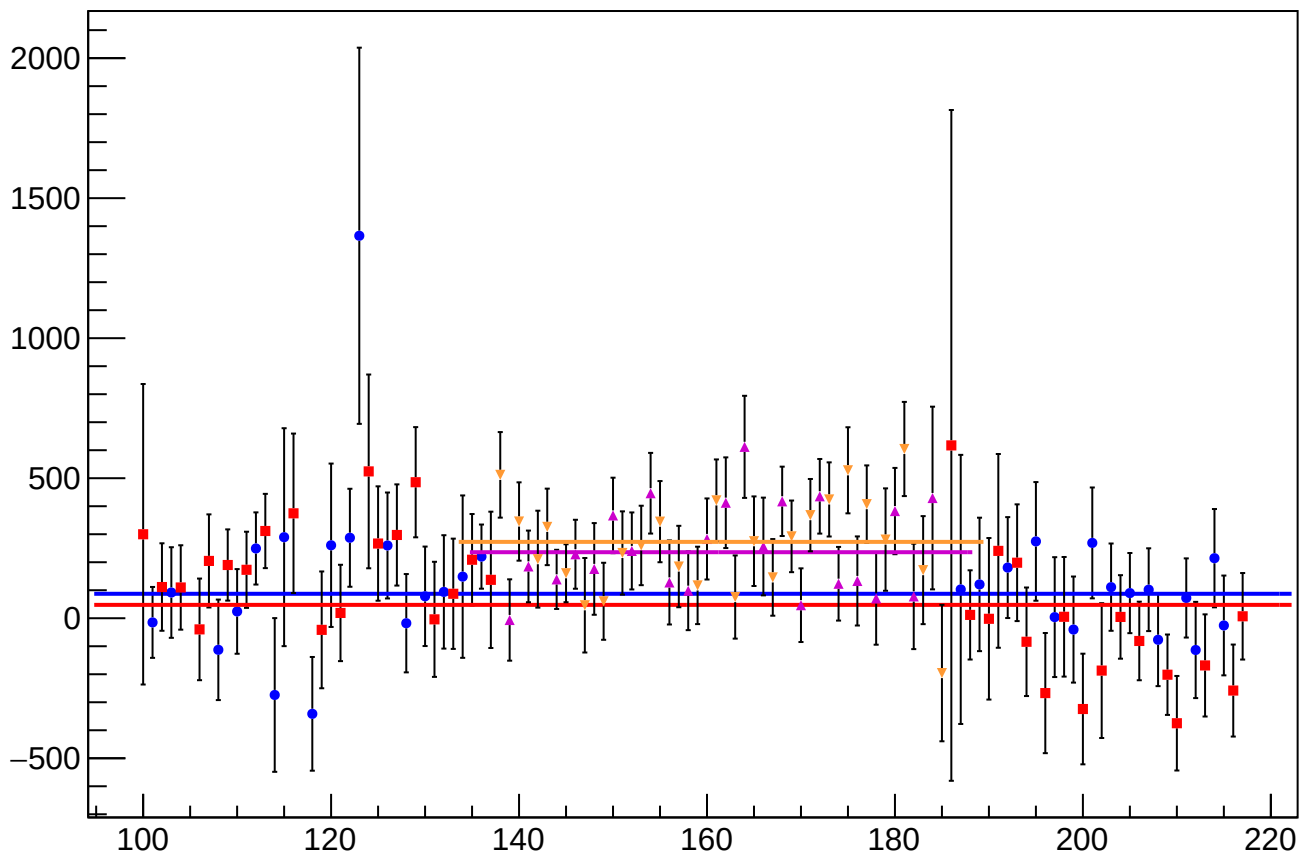
Right: 722.840+/-0.090 χ^2/NDF : 6714302.6/67

In: 296.883+/-0.041 χ^2/NDF : 17252101.7/54

Out: 303.543+/-0.041 χ^2/NDF : 19166110.7/60

All: 300.237+/-0.029 χ^2/NDF : 36431274.9/111

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 87.316+/-31.600 χ^2/NDF : 23.8/31

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 47.744+/-30.503 χ^2/NDF : 43.8/35

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

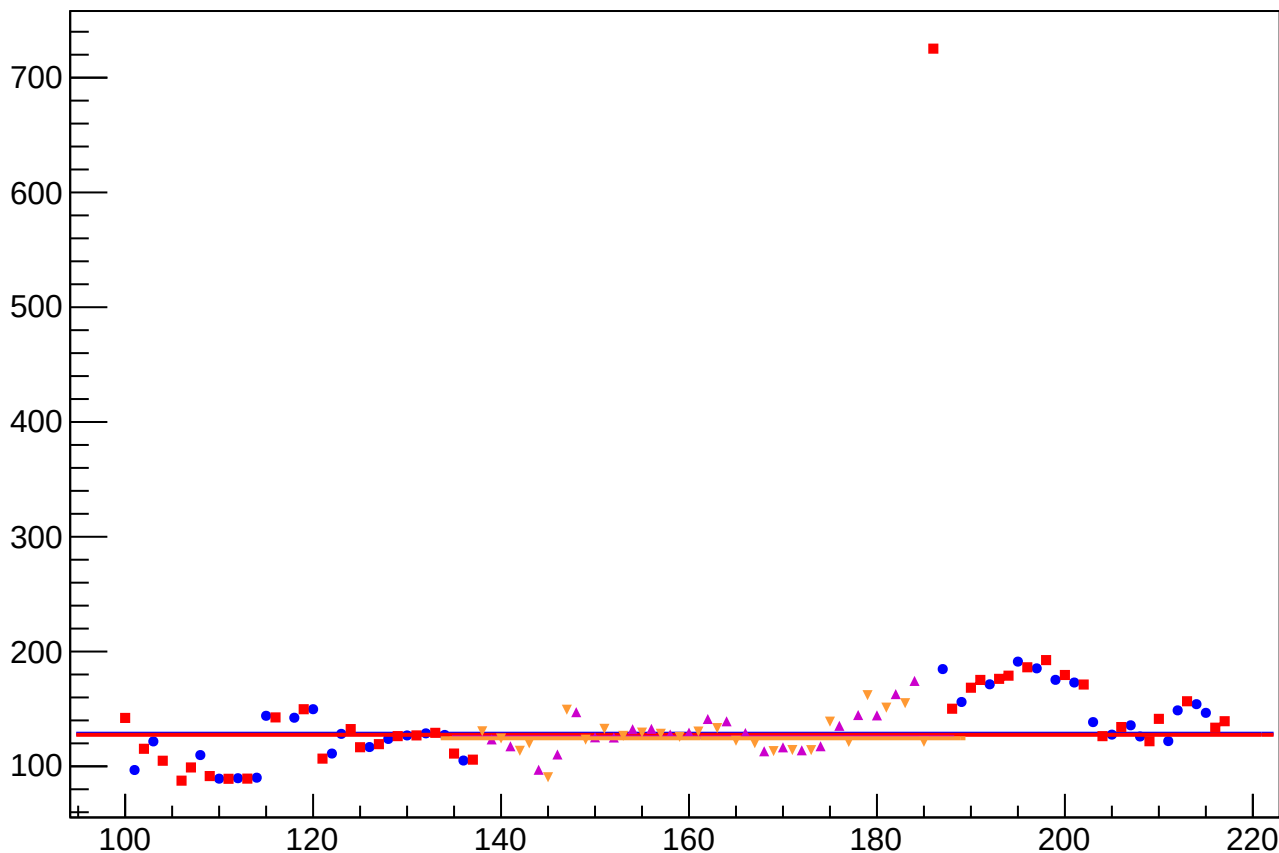
Right: 66.831+/-21.947 χ^2/NDF : 68.5/67

In: 164.843+/-21.845 χ^2/NDF :60.0/54

Out: 165.041+/-21.101 χ^2/NDF :99.6/60

All: 164.945+/-15.177 χ^2/NDF : 159.6/115

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 128.414 $\pm$ 0.022 χ^2 /NDF: 1459021.6/31

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 127.464 $\pm$ 0.022 χ^2 /NDF: 2299723.9/35

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

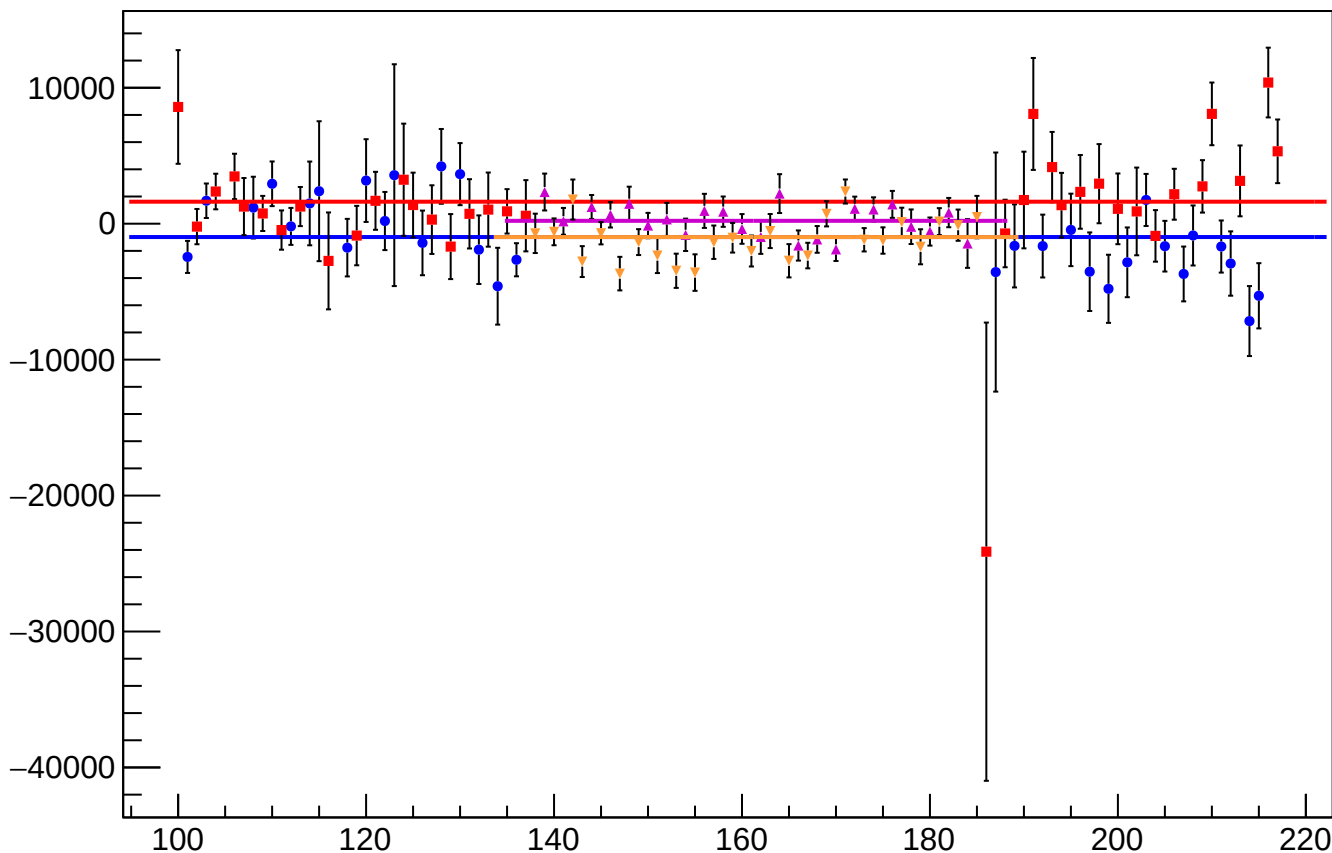
Right: 127.922 $\pm$ 0.016 χ^2 /NDF: 3759681.3/67

In: 126.739 $\pm$ 0.015 χ^2 /NDF: 1971177.9/54

Out: 125.881 $\pm$ 0.015 χ^2 /NDF: 2849781.5/60

All: 126.295 $\pm$ 0.011 χ^2 /NDF: 4822553.2/115

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -981.541 $\pm$ 370.731 χ^2 /NDF: 45.6/31

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF: 47.2/24

Right Out: 1618.377 $\pm$ 355.899 χ^2 /NDF: 46.2/35

Left In: 211.420 $\pm$ 223.296 χ^2 /NDF: 25.7/22

Left: -399.983 $\pm$ 155.996 χ^2 /NDF: 87.5/47

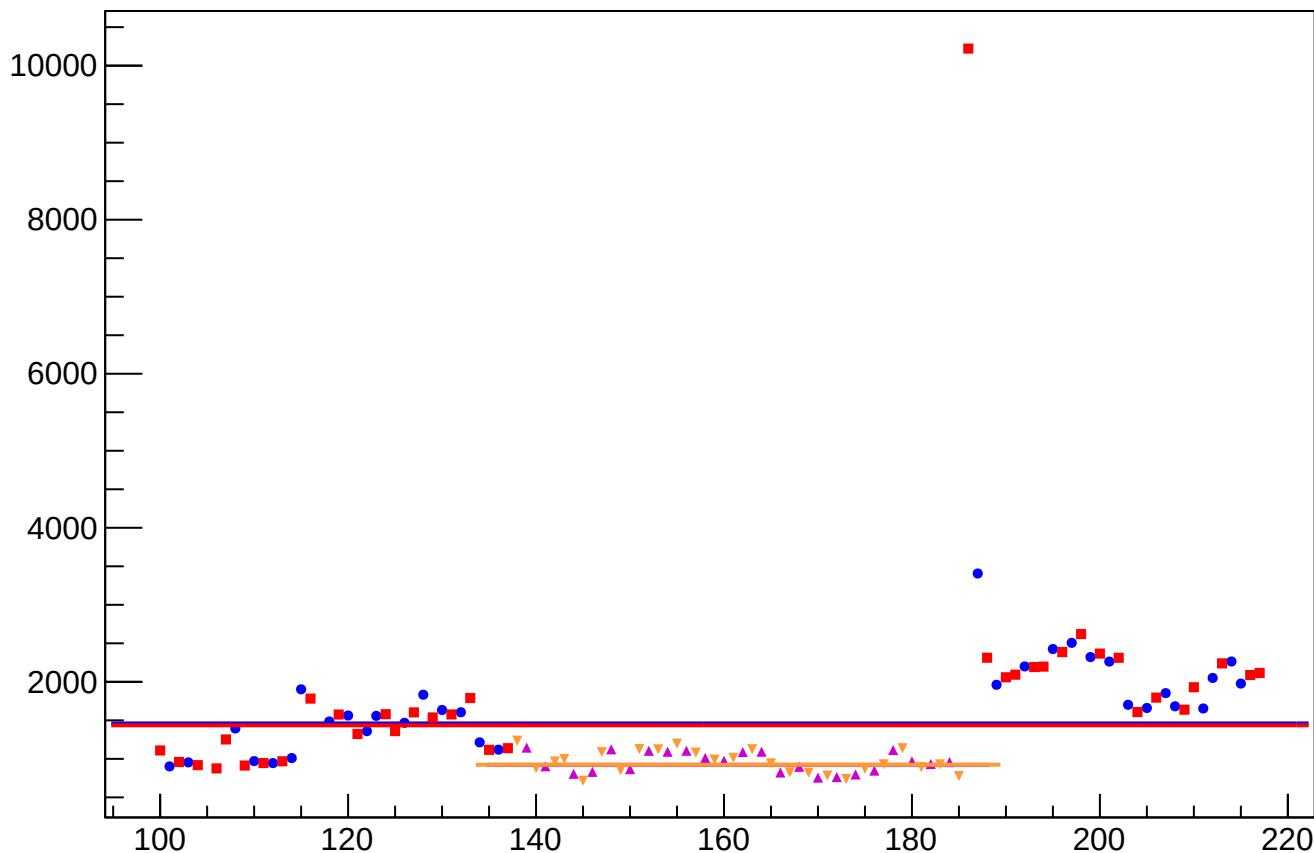
Right: 371.466 $\pm$ 256.742 χ^2 /NDF: 117.4/67

In: -106.154 $\pm$ 191.280 χ^2 /NDF: 78.9/54

Out: -273.046 $\pm$ 185.911 χ^2 /NDF: 132.3/60

All: -191.975 $\pm$ 133.316 χ^2 /NDF: 211.5/115

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1459.833+/-0.262 χ^2/NDF : 3420271.8/31

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1435.448+/-0.252 χ^2/NDF : 4747995.9/35

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

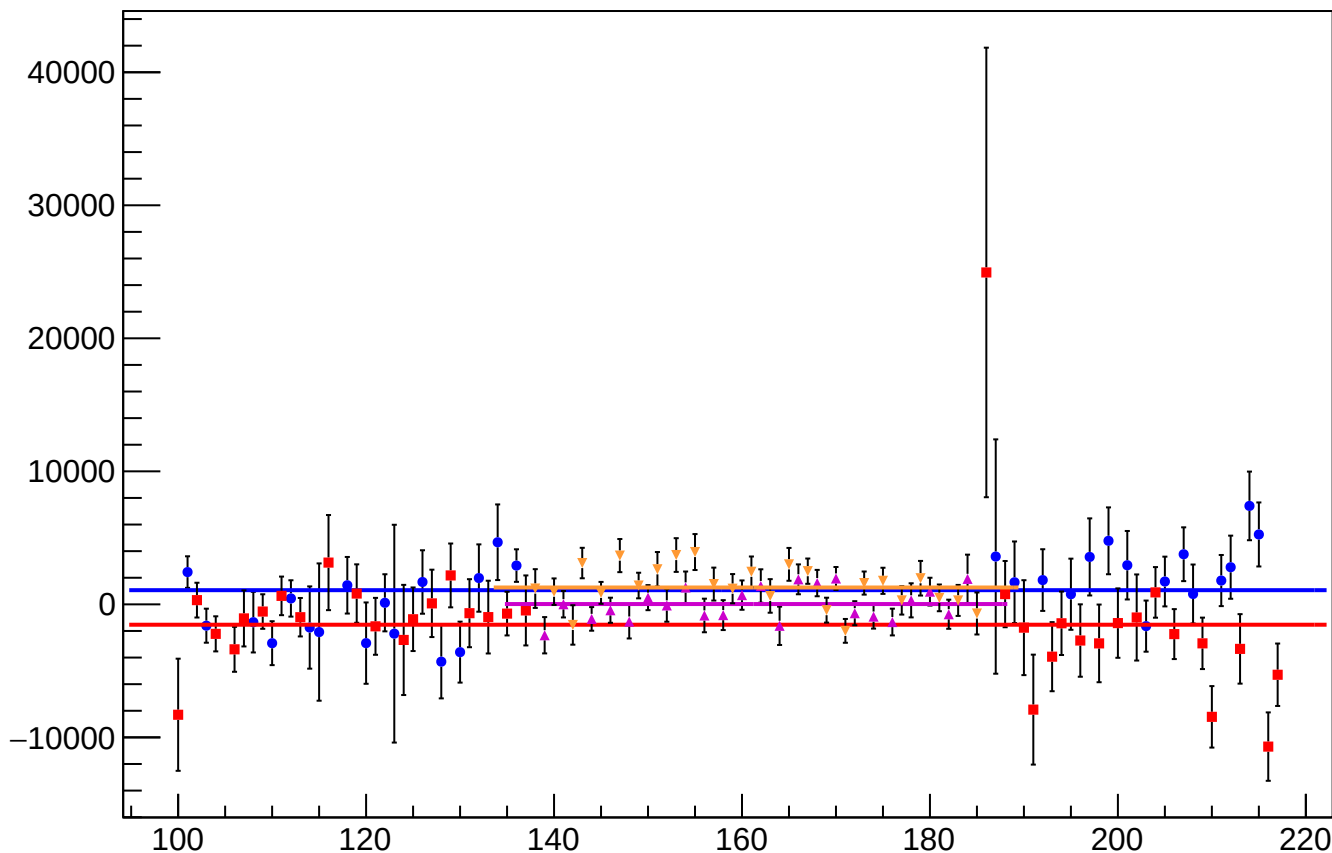
Right: 1447.143+/-0.182 χ^2/NDF : 8172770.6/67

In: 1065.354+/-0.135 χ^2/NDF : 7140900.5/54

Out: 1063.258+/-0.131 χ^2/NDF : 8598862.5/60

All: 1064.276+/-0.094 χ^2/NDF : 15739886.5/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1066.082+/-372.285 χ^2/NDF : 45.4/31

Left Out: 1267.344+/-220.133 χ^2/NDF : 44.9/24

Right Out: -1530.946+/-357.537 χ^2/NDF : 49.4/35

Left In: 23.478+/-225.490 χ^2/NDF : 27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

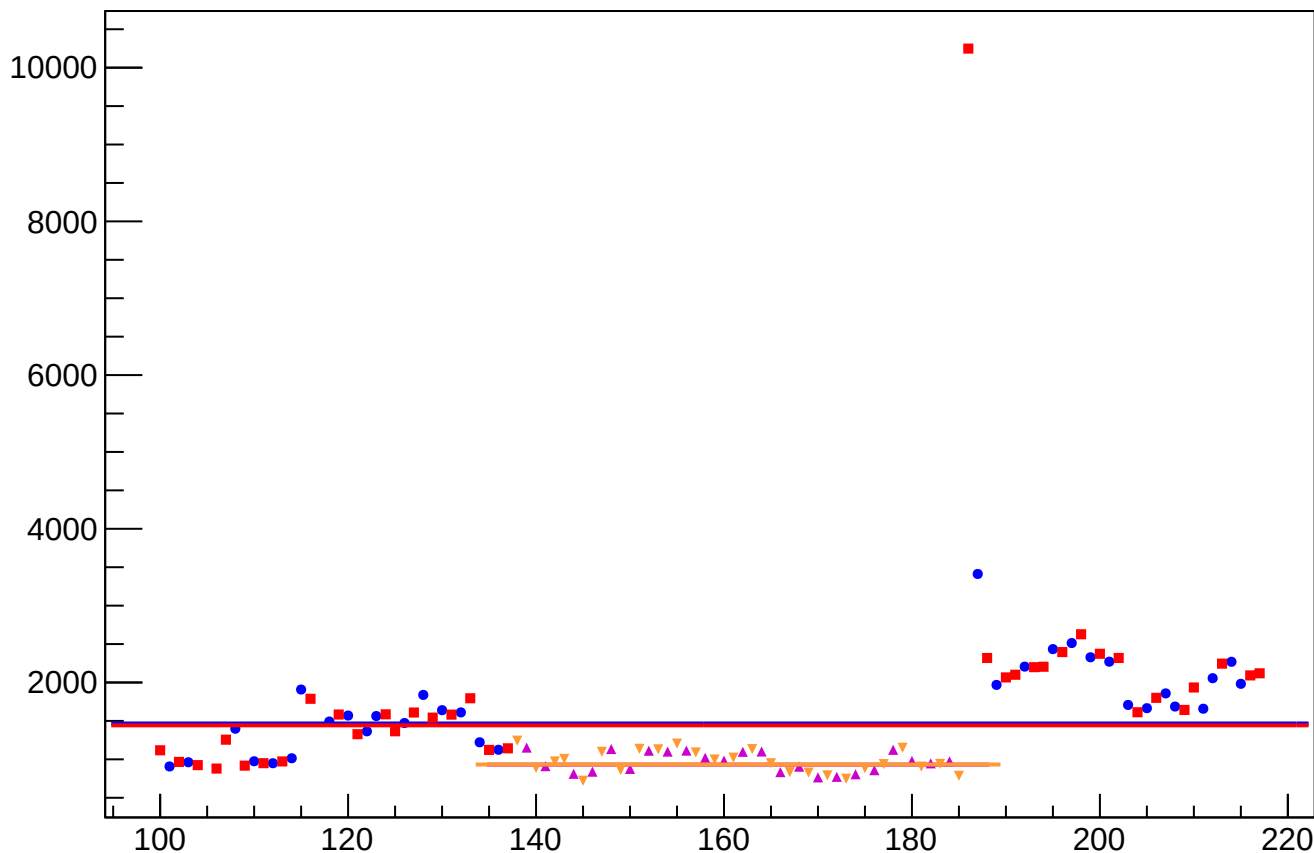
Right: -284.891+/-257.873 χ^2/NDF : 120.2/67

In: 303.311+/-192.870 χ^2/NDF : 78.3/54

Out: 498.154+/-187.452 χ^2/NDF : 138.8/60

All: 403.508+/-134.423 χ^2/NDF : 217.6/115

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1466.524+/-0.263 χ^2/NDF : 3397401.9/31

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1442.551+/-0.253 χ^2/NDF : 4718111.7/35

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

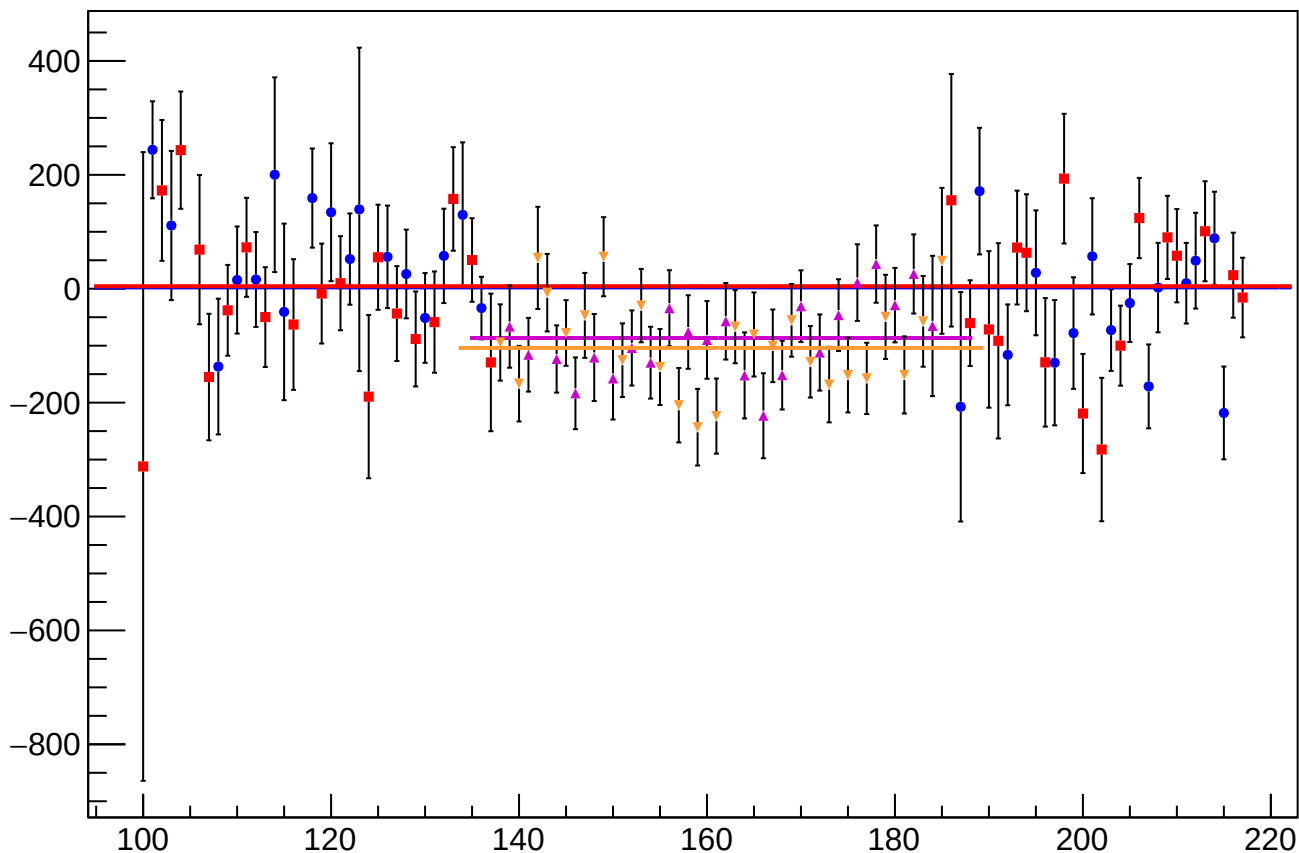
Right: 1454.053+/-0.182 χ^2/NDF : 8119827.7/67

In: 1075.094+/-0.136 χ^2/NDF : 7043961.4/54

Out: 1072.893+/-0.133 χ^2/NDF : 8496248.0/60

All: 1073.962+/-0.095 χ^2/NDF : 15540343.2/112

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 2.344 ± 15.910 χ^2/NDF : 42.6/31

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: 4.433 ± 15.669 χ^2/NDF : 45.0/35

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

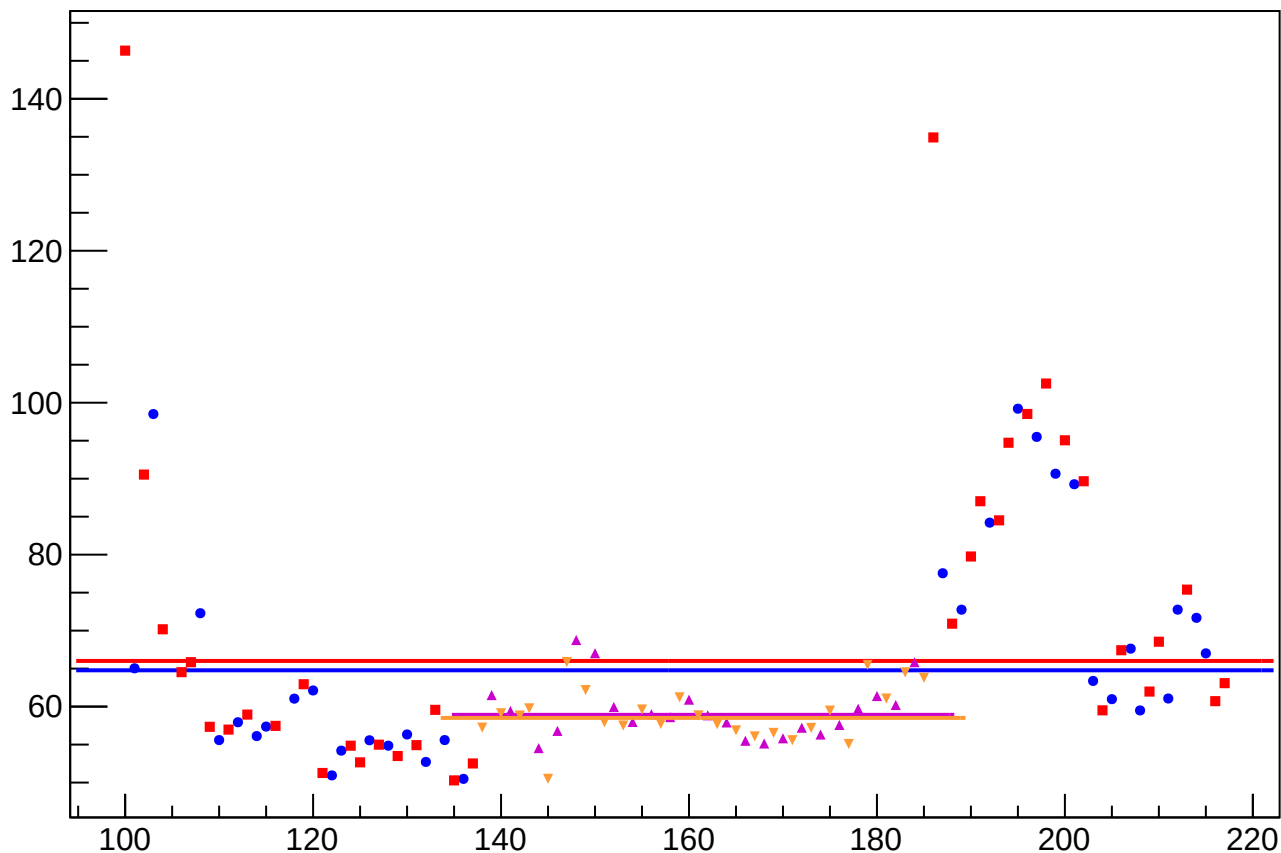
Right: 3.404 ± 11.164 χ^2/NDF : 87.6/67

In: -47.379 ± 10.561 χ^2/NDF : 81.5/54

Out: -57.189 ± 10.289 χ^2/NDF : 102.1/60

All: -52.412 ± 7.370 χ^2/NDF : 184.0/115

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.776 $\pm$ 0.011 χ^2 /NDF: 1294997.6/31

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.011 $\pm$ 0.011 χ^2 /NDF: 1687213.1/35

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

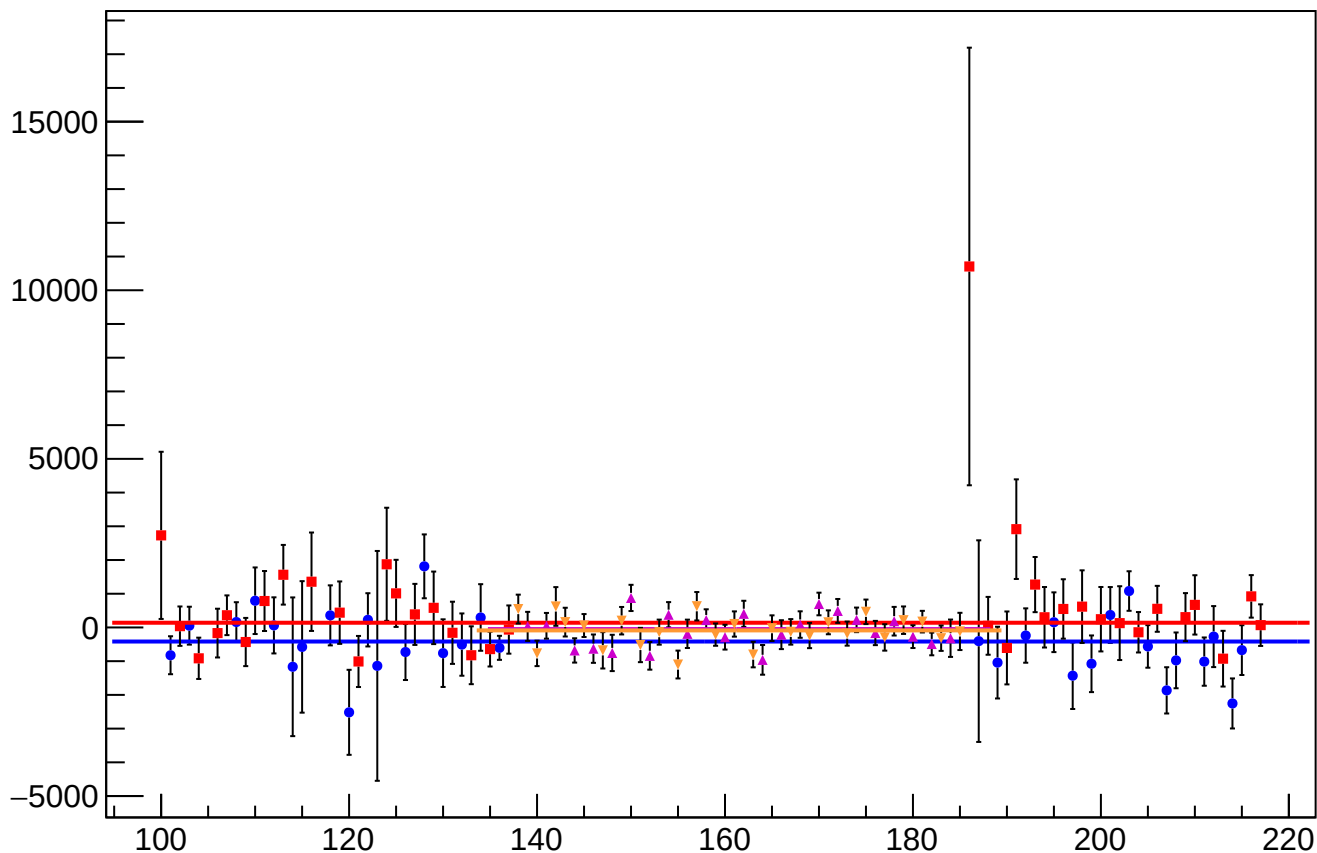
Right: 65.403 $\pm$ 0.008 χ^2 /NDF: 2988328.5/67

In: 61.497 $\pm$ 0.007 χ^2 /NDF:1556886.3/54

Out: 61.746 $\pm$ 0.007 χ^2 /NDF:2070956.8/60

All: 61.625 $\pm$ 0.005 χ^2 /NDF: 3628415.8/115

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -417.381 ± 137.428 χ^2/NDF : 36.9/31

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 139.714 ± 135.507 χ^2/NDF : 30.3/35

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

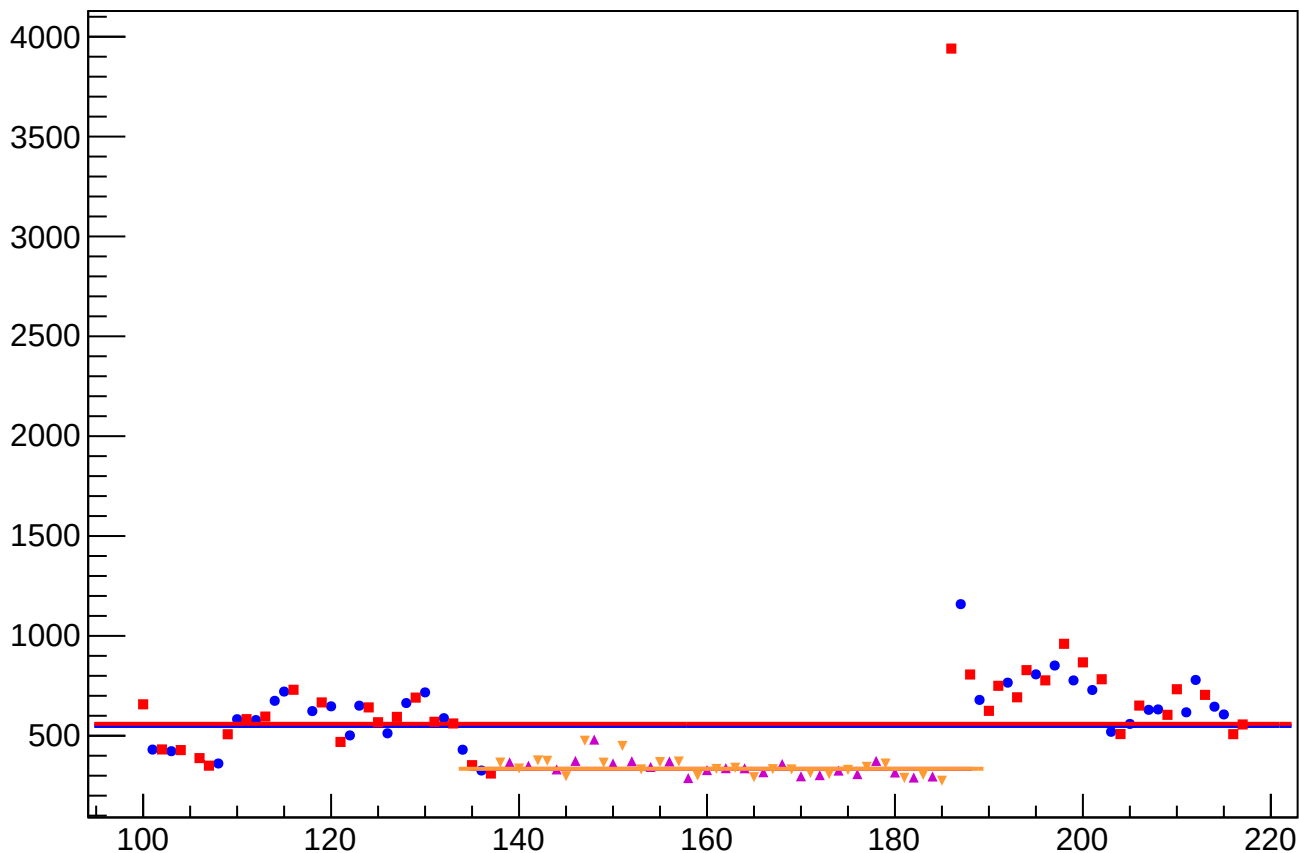
Right: -134.912 ± 96.490 χ^2/NDF : 75.5/67

In: -142.998 ± 69.491 χ^2/NDF : 77.5/54

Out: -30.315 ± 67.962 χ^2/NDF : 60.2/60

All: -85.403 ± 48.588 χ^2/NDF : 139.1/115

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 549.055+/-0.097 χ^2/NDF : 2469178.2/31

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 559.719+/-0.096 χ^2/NDF : 3141473.8/35

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

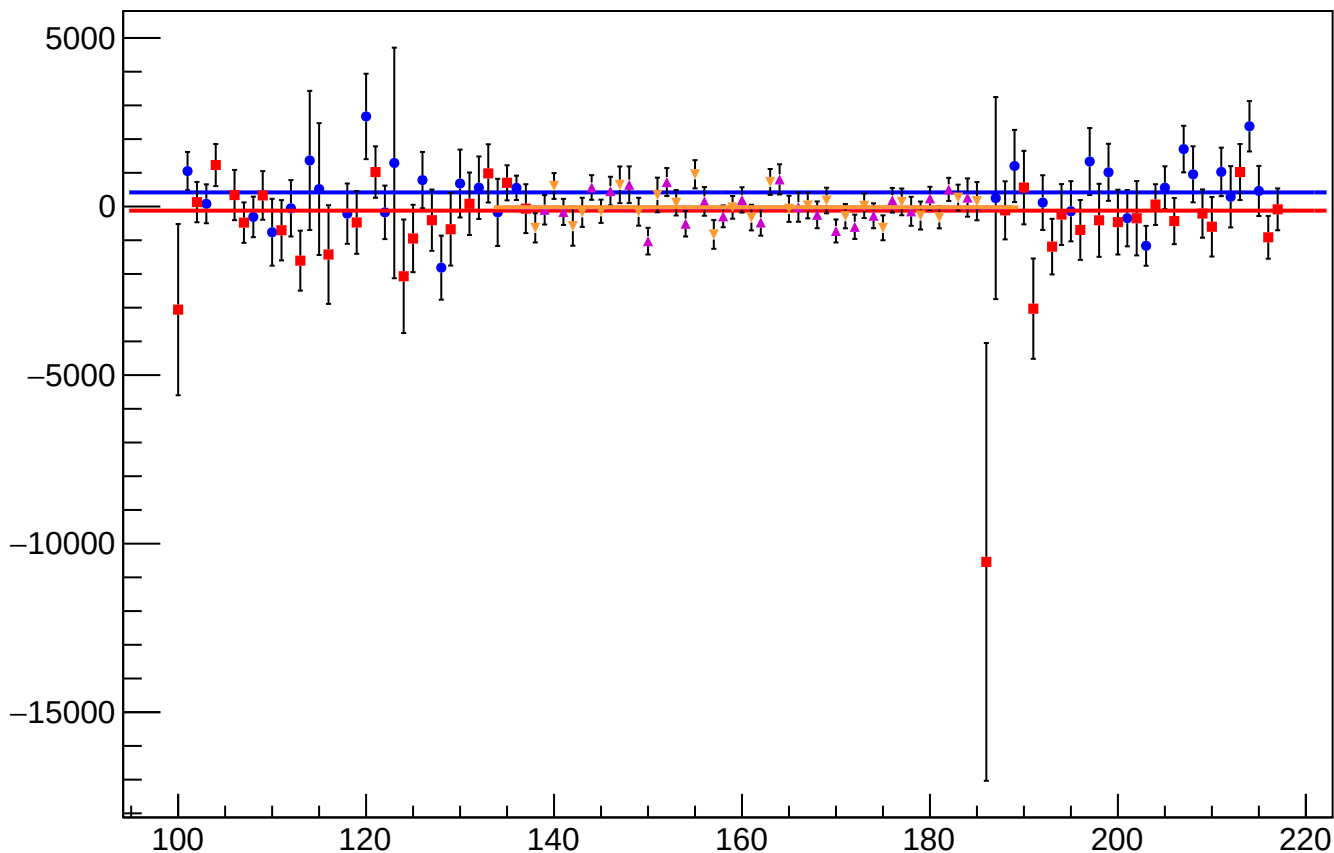
Right: 554.462+/-0.068 χ^2/NDF : 5616757.4/67

In: 389.096+/-0.049 χ^2/NDF : 6506708.8/54

Out: 391.338+/-0.048 χ^2/NDF : 7758797.7/60

All: 390.242+/-0.034 χ^2/NDF : 14266570.3/111

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 419.614 $\pm$ 138.718 χ^2 /NDF: 37.6/31

Left Out: -20.895 $\pm$ 79.812 χ^2 /NDF:27.2/24

Right Out: -121.865 $\pm$ 136.823 χ^2 /NDF: 33.5/35

Left In: -31.800 $\pm$ 81.839 χ^2 /NDF:34.0/22

Left: -26.211 $\pm$ 57.139 χ^2 /NDF: 61.3/47

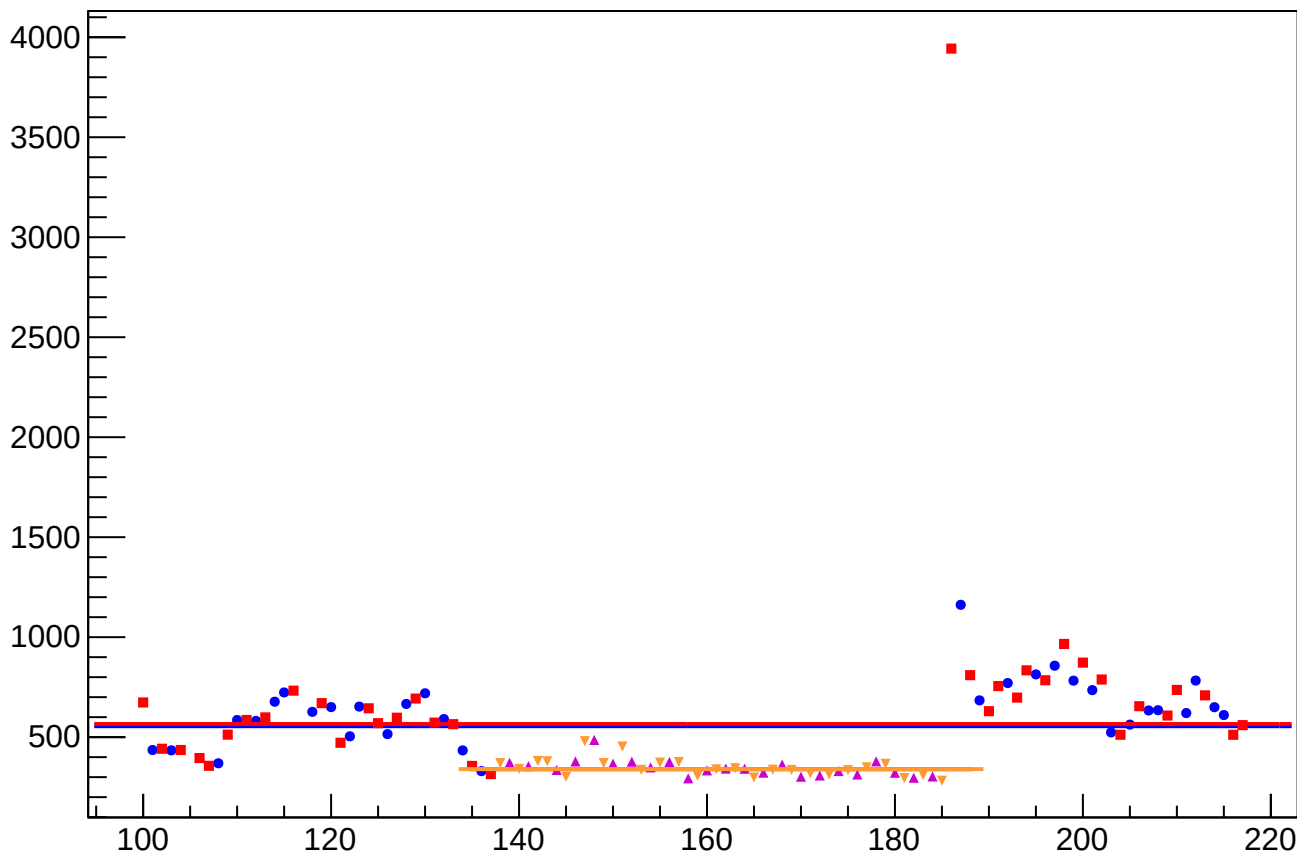
Right: 145.151 $\pm$ 97.412 χ^2 /NDF: 78.8/67

In: 84.753 $\pm$ 70.487 χ^2 /NDF:79.5/54

Out: -46.529 $\pm$ 68.940 χ^2 /NDF:61.1/60

All: 17.656 $\pm$ 49.286 χ^2 /NDF: 142.4/115

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 554.845 $\pm$ 0.098 χ^2 /NDF: 2400330.6/31

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 565.686 $\pm$ 0.097 χ^2 /NDF: 3071430.8/35

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

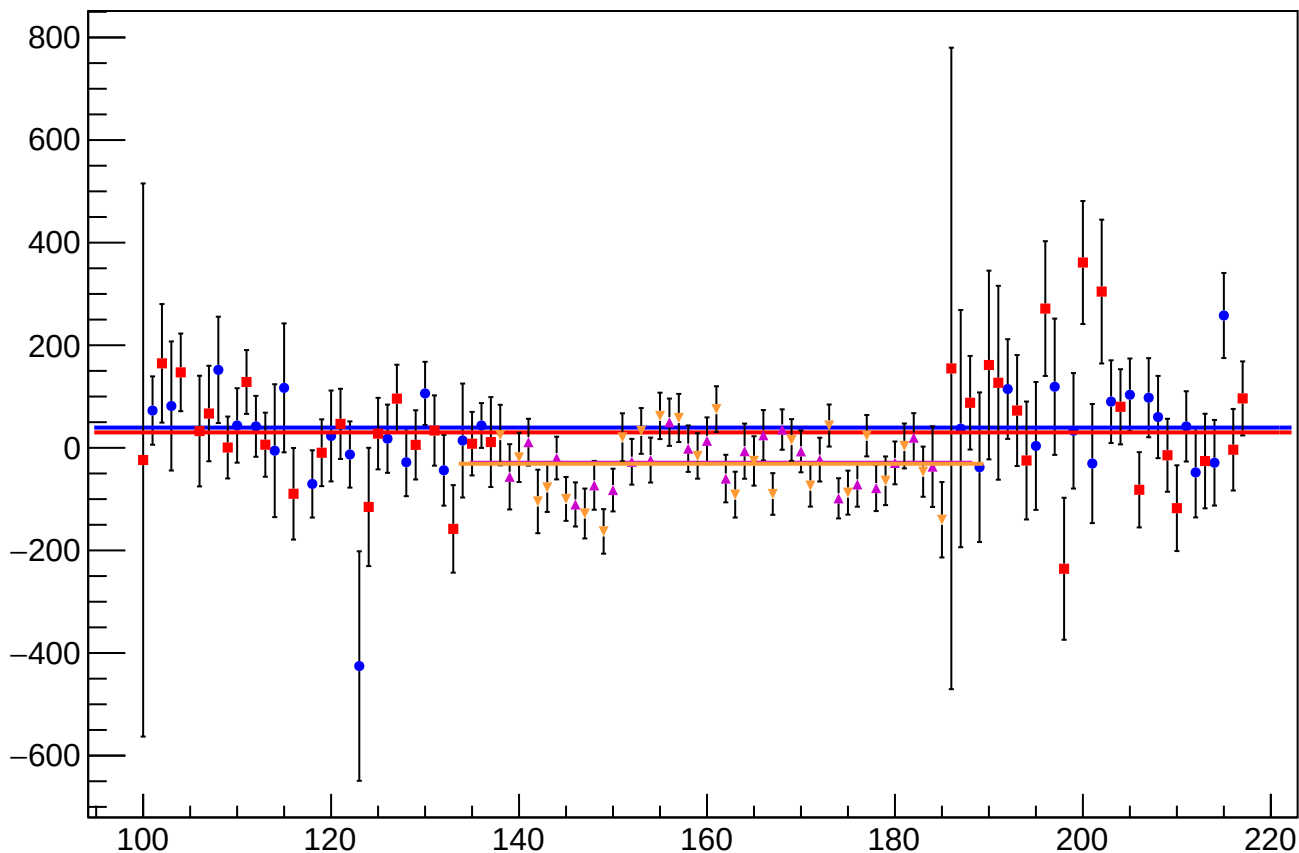
Right: 560.340 $\pm$ 0.069 χ^2 /NDF: 5477953.9/67

In: 395.191 $\pm$ 0.050 χ^2 /NDF: 6351483.2/54

Out: 397.474 $\pm$ 0.049 χ^2 /NDF: 7591786.4/60

All: 396.358 $\pm$ 0.035 χ^2 /NDF: 13944342.2/111

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 39.484 ± 14.305 χ^2/NDF : 25.8/31

Left Out: -31.063 ± 9.170 χ^2/NDF : 52.6/24

Right Out: 30.083 ± 14.084 χ^2/NDF : 44.6/35

Left In: -29.055 ± 9.449 χ^2/NDF : 22.4/22

Left: -30.089 ± 6.581 χ^2/NDF : 75.1/47

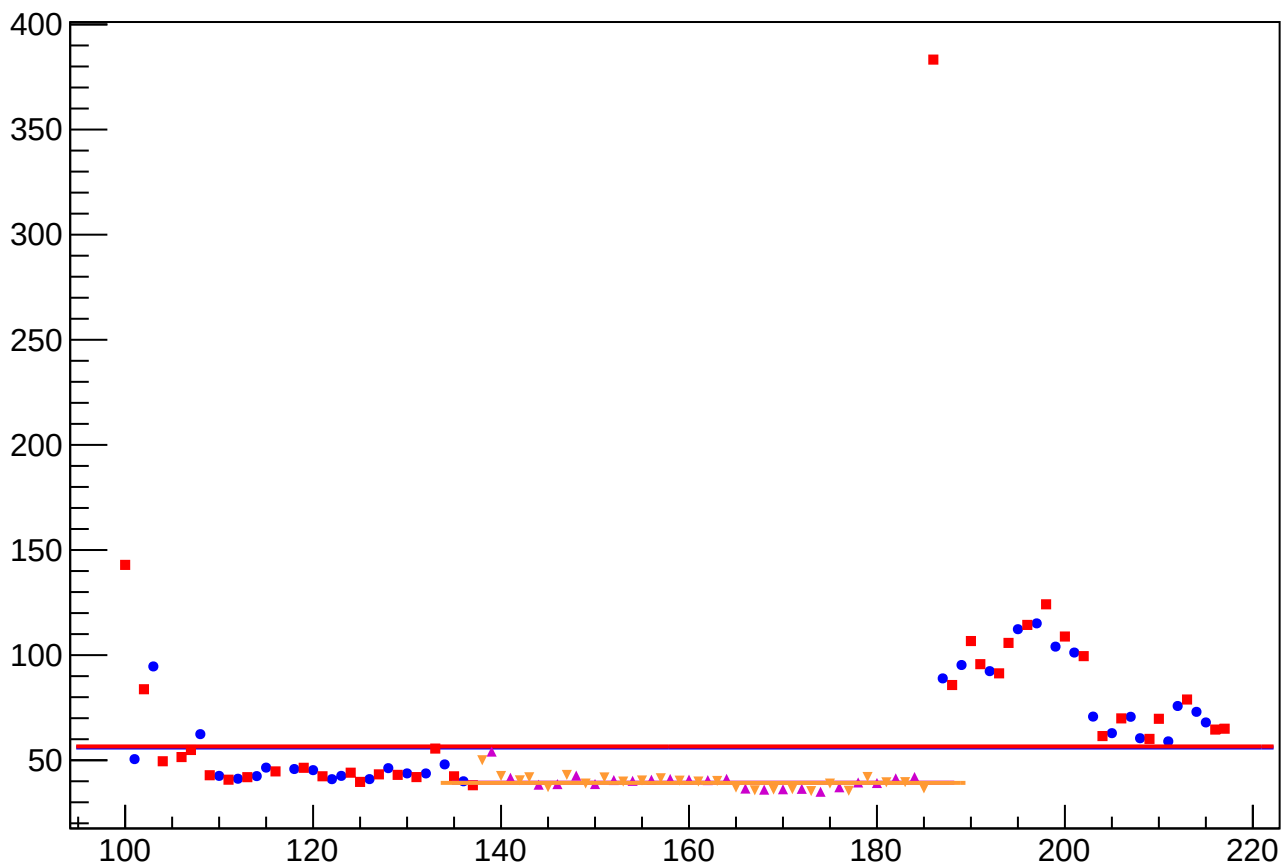
Right: 34.710 ± 10.036 χ^2/NDF : 70.6/67

In: -8.234 ± 7.885 χ^2/NDF : 64.3/54

Out: -12.859 ± 7.684 χ^2/NDF : 110.4/60

All: -10.606 ± 5.503 χ^2/NDF : 174.9/115

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.049 $\pm$ 0.010 χ^2 /NDF: 3528453.2/31

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 56.567 $\pm$ 0.010 χ^2 /NDF: 4568923.4/35

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

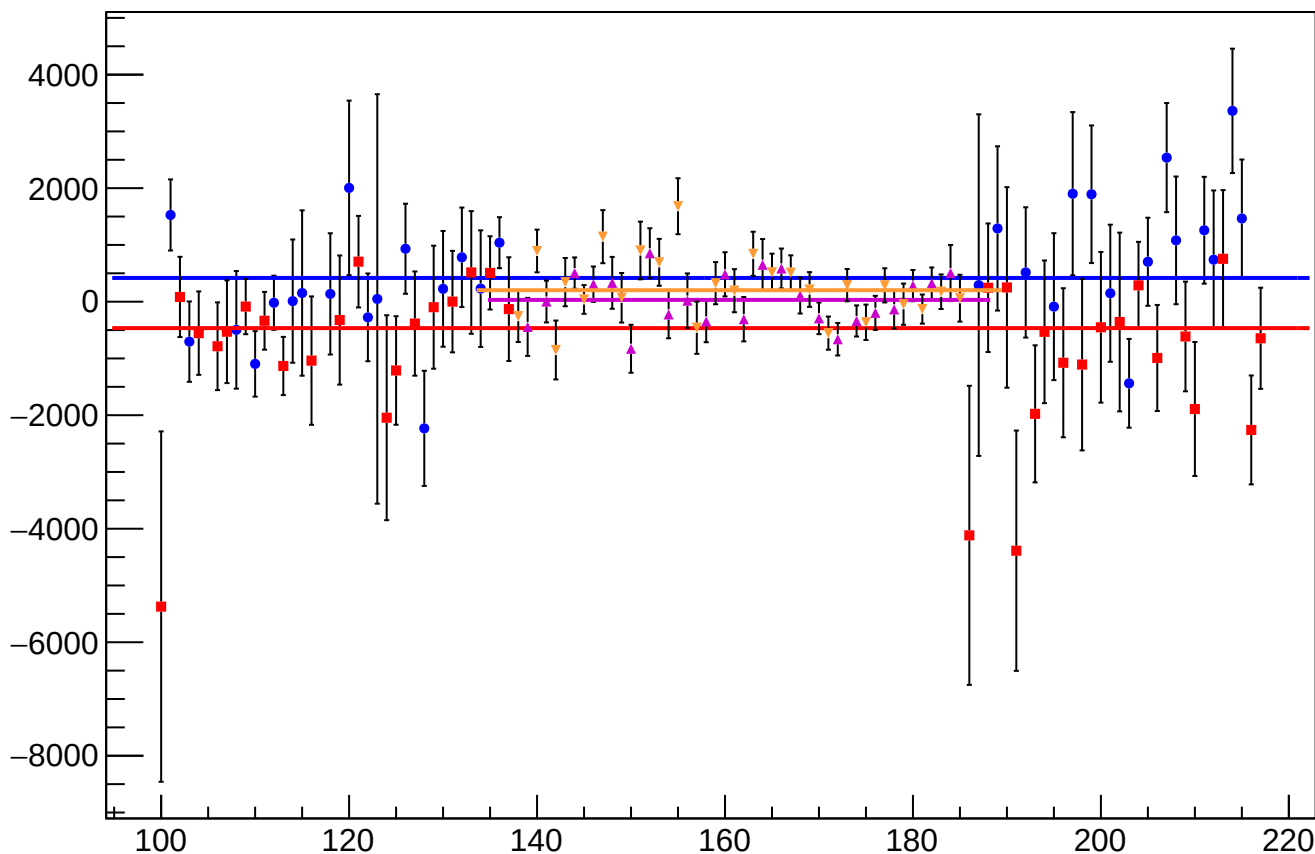
Right: 56.312 $\pm$ 0.007 χ^2 /NDF: 8098709.7/67

In: 44.415 $\pm$ 0.006 χ^2 /NDF: 5644230.1/54

Out: 44.395 $\pm$ 0.005 χ^2 /NDF: 6898179.2/60

All: 44.405 $\pm$ 0.004 χ^2 /NDF: 12542415.8/115

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 418.304 $\pm$ 157.121 χ^2 /NDF: 48.9/31

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -465.903 $\pm$ 151.778 χ^2 /NDF: 28.3/35

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

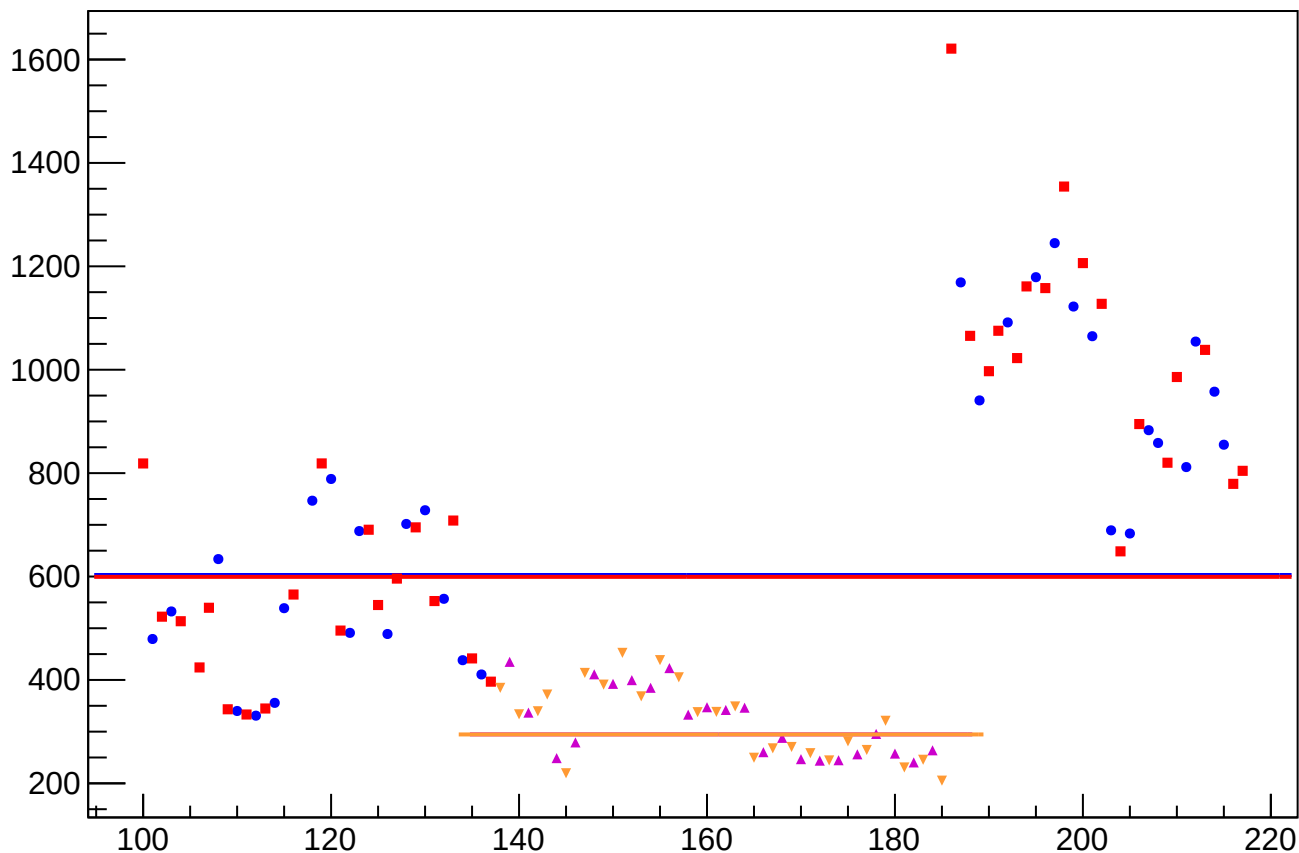
Right: -39.088 $\pm$ 109.163 χ^2 /NDF: 93.5/67

In: 98.822 $\pm$ 65.530 χ^2 /NDF:87.3/54

Out: 83.979 $\pm$ 63.884 χ^2 /NDF:89.0/60

All: 91.212 $\pm$ 45.744 χ^2 /NDF: 176.3/115

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 602.991+/-0.111 χ^2/NDF : 4912548.3/31

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 599.398+/-0.107 χ^2/NDF : 6103784.0/35

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

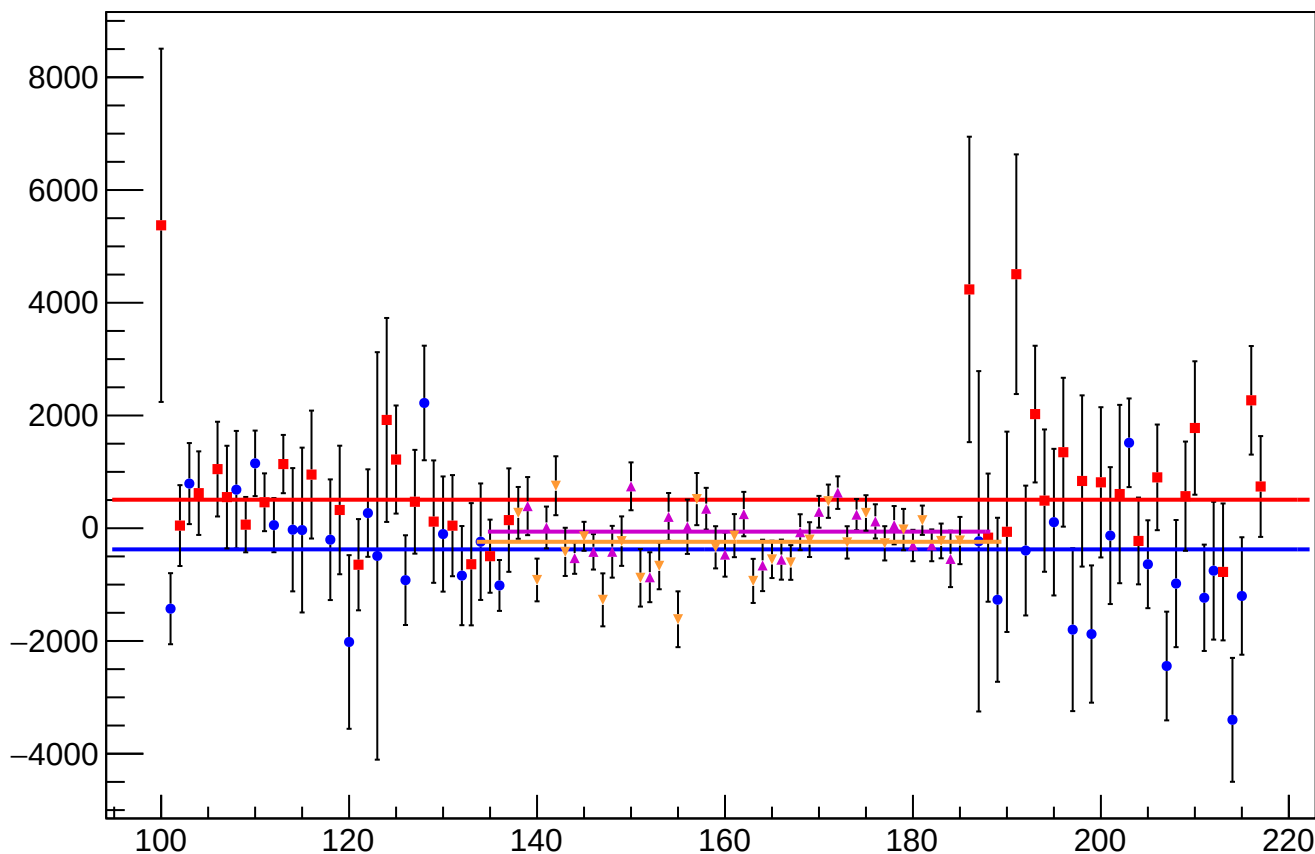
Right: 601.132+/-0.077 χ^2/NDF : 11016873.3/67

In: 348.344+/-0.046 χ^2/NDF : 12569467.5/54

Out: 348.590+/-0.045 χ^2/NDF : 14421309.2/60

All: 348.470+/-0.032 χ^2/NDF : 26990791.2/111

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -374.864 ± 157.989 $\chi^2/\text{NDF}: 48.5/31$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 506.046 ± 153.092 $\chi^2/\text{NDF}: 27.8/35$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

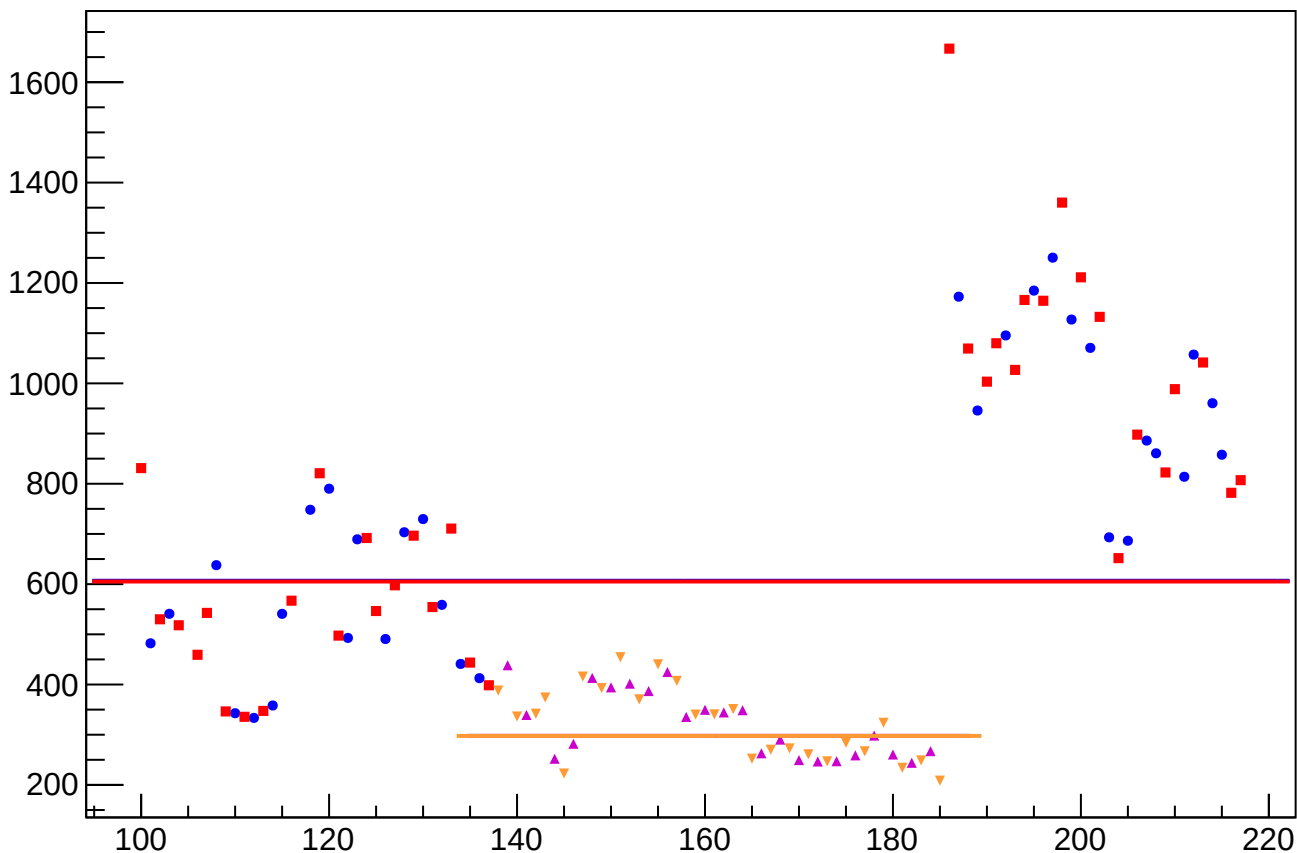
Right: 79.457 ± 109.943 $\chi^2/\text{NDF}: 92.3/67$

In: -115.403 ± 66.109 $\chi^2/\text{NDF}: 82.7/54$

Out: -107.926 ± 64.485 $\chi^2/\text{NDF}: 90.2/60$

All: -111.571 ± 46.161 $\chi^2/\text{NDF}: 172.9/115$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 606.663 $\pm$ 0.112 χ^2 /NDF: 4881077.3/31

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 605.278 $\pm$ 0.108 χ^2 /NDF: 6028286.9/35

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF:1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

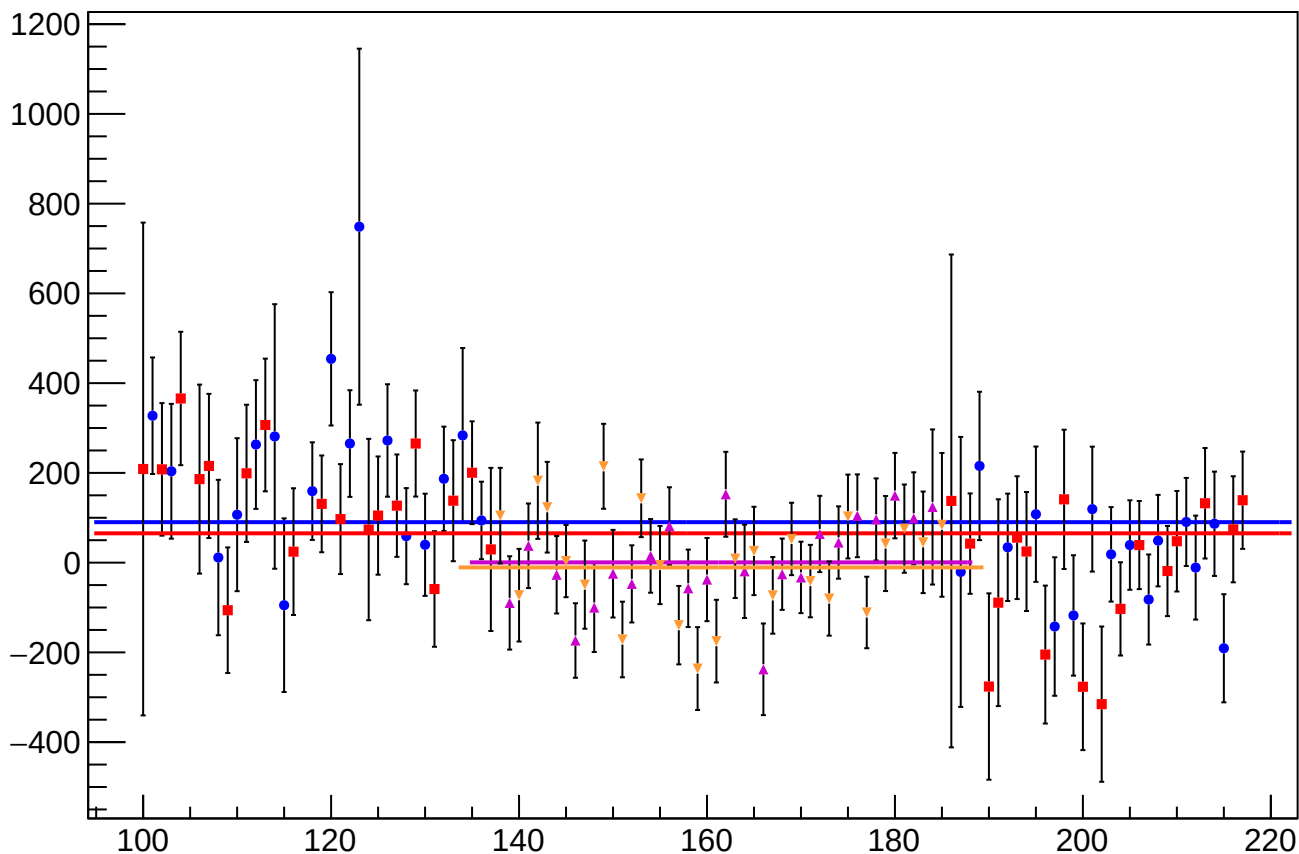
Right: 605.949 $\pm$ 0.078 χ^2 /NDF: 10909443.4/67

In: 351.797 $\pm$ 0.047 χ^2 /NDF:12456879.5/54

Out: 352.201 $\pm$ 0.046 χ^2 /NDF:14310513.0/60

All: 352.004 $\pm$ 0.033 χ^2 /NDF: 26767430.7/11

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 90.203 $\pm$ 22.671 χ^2 /NDF: 38.0/31

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 65.350 $\pm$ 22.639 χ^2 /NDF: 39.2/35

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

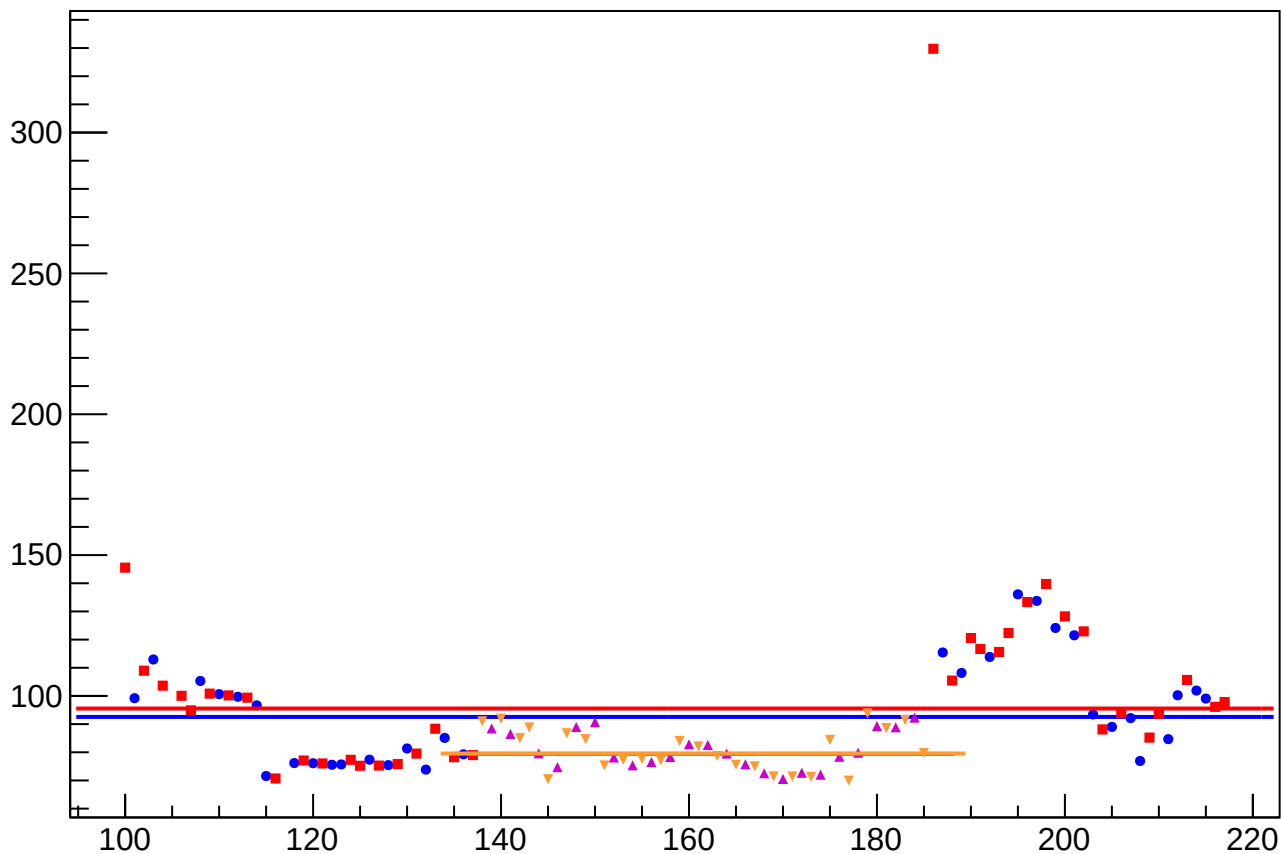
Right: 77.759 $\pm$ 16.020 χ^2 /NDF: 77.8/67

In: 37.762 $\pm$ 14.603 χ^2 /NDF:70.9/54

Out: 19.985 $\pm$ 14.376 χ^2 /NDF:82.3/60

All: 28.734 $\pm$ 10.245 χ^2 /NDF: 153.9/115

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.548 $\pm$ 0.016 χ^2 /NDF: 1091671.9/31

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 95.532 $\pm$ 0.016 χ^2 /NDF: 1536245.1/35

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

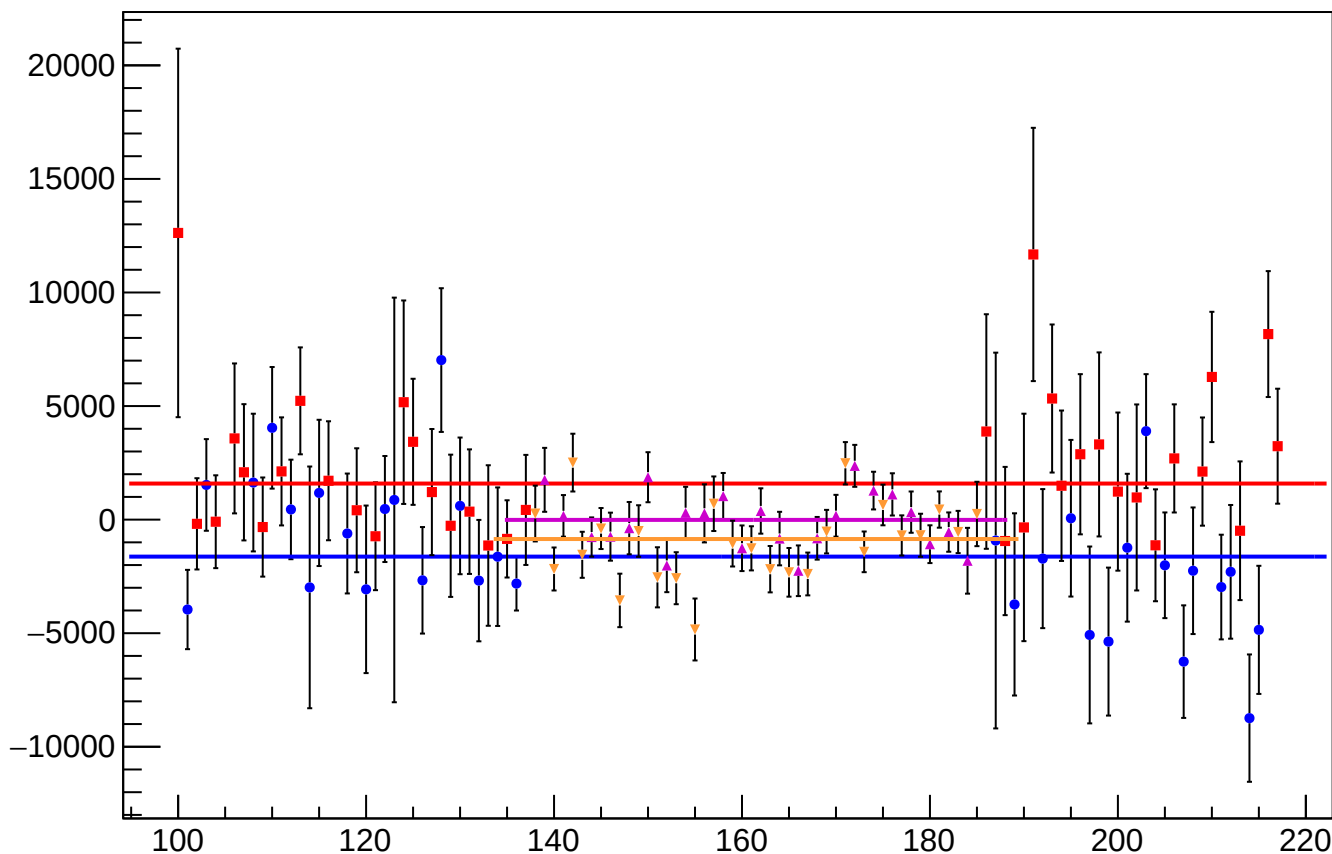
Right: 94.042 $\pm$ 0.011 χ^2 /NDF: 2645268.9/67

In: 84.877 $\pm$ 0.010 χ^2 /NDF: 1695504.5/54

Out: 85.995 $\pm$ 0.010 χ^2 /NDF: 2440056.1/60

All: 85.445 $\pm$ 0.007 χ^2 /NDF: 4141520.1/115

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1628.275 $\pm$ 464.177 χ^2 /NDF: 41.3/31

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1588.308 $\pm$ 467.477 χ^2 /NDF: 29.2/35

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

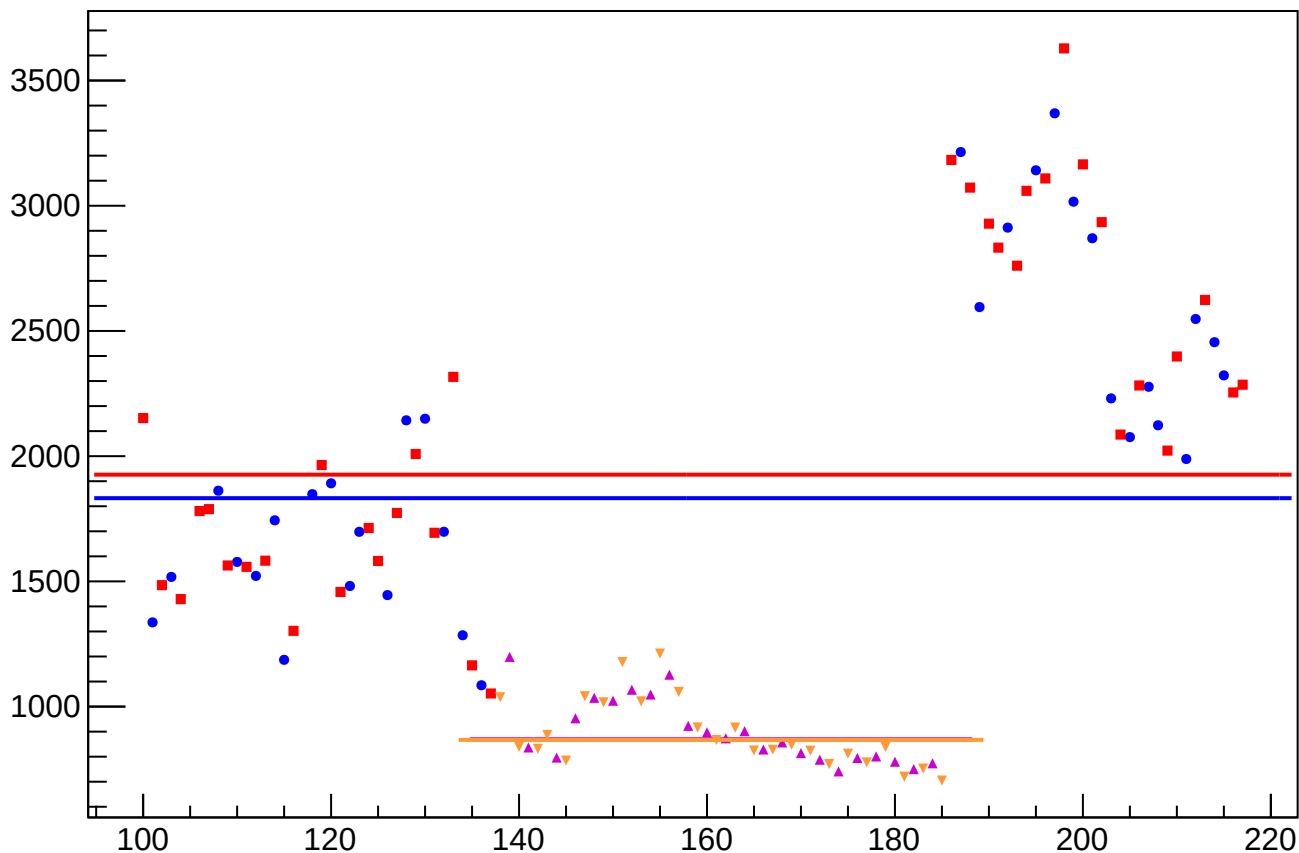
Right: -31.377 $\pm$ 329.383 χ^2 /NDF: 94.3/67

In: -286.508 $\pm$ 191.386 χ^2 /NDF:82.6/54

Out: -463.126 $\pm$ 187.042 χ^2 /NDF:108.1/60

All: -376.844 $\pm$ 133.768 χ^2 /NDF: 191.1/115

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1832.285 $\pm$ 0.328 χ^2 /NDF: 3245700.4/31

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1926.146 $\pm$ 0.331 χ^2 /NDF: 3404627.8/35

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

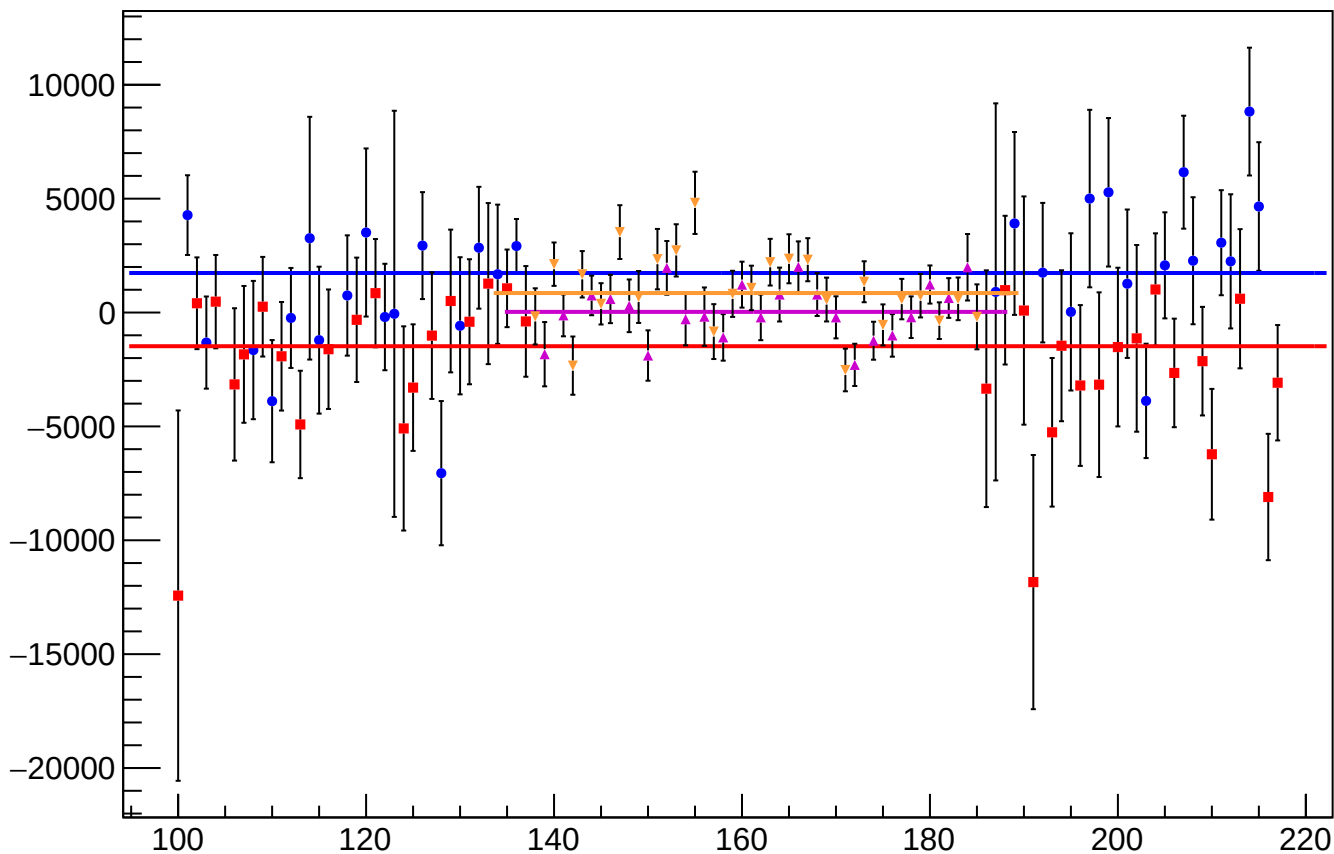
Right: 1878.883 $\pm$ 0.233 χ^2 /NDF: 6690927.7/67

In: 1033.231 $\pm$ 0.135 χ^2 /NDF: 10968627.2/54

Out: 1036.466 $\pm$ 0.132 χ^2 /NDF: 12691016.0/60

All: 1034.886 $\pm$ 0.095 χ^2 /NDF: 23659935.5/111

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Left: 454.007 ± 147.061 $\chi^2/\text{NDF}: 91.7/47$

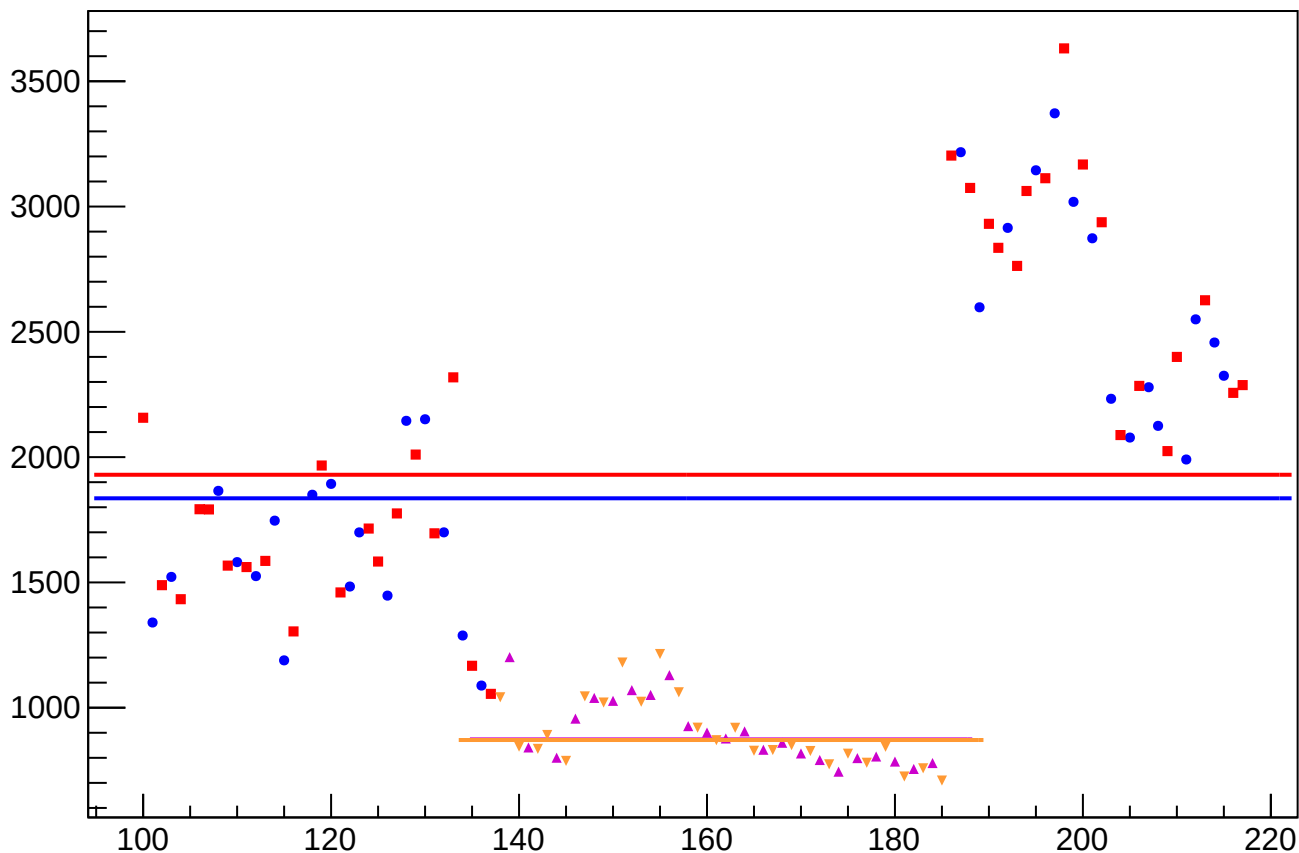
Right: 140.046 ± 329.945 $\chi^2/\text{NDF}: 93.9/67$

In: 320.212 ± 192.165 $\chi^2/\text{NDF}: 82.0/54$

Out: 480.088 ± 187.831 $\chi^2/\text{NDF}: 104.0/60$

All: 401.973 ± 134.323 $\chi^2/\text{NDF}: 186.4/115$

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1835.704 $\pm$ 0.329 χ^2 /NDF: 3231980.9/31

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1929.646 $\pm$ 0.331 χ^2 /NDF: 3394537.7/35

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

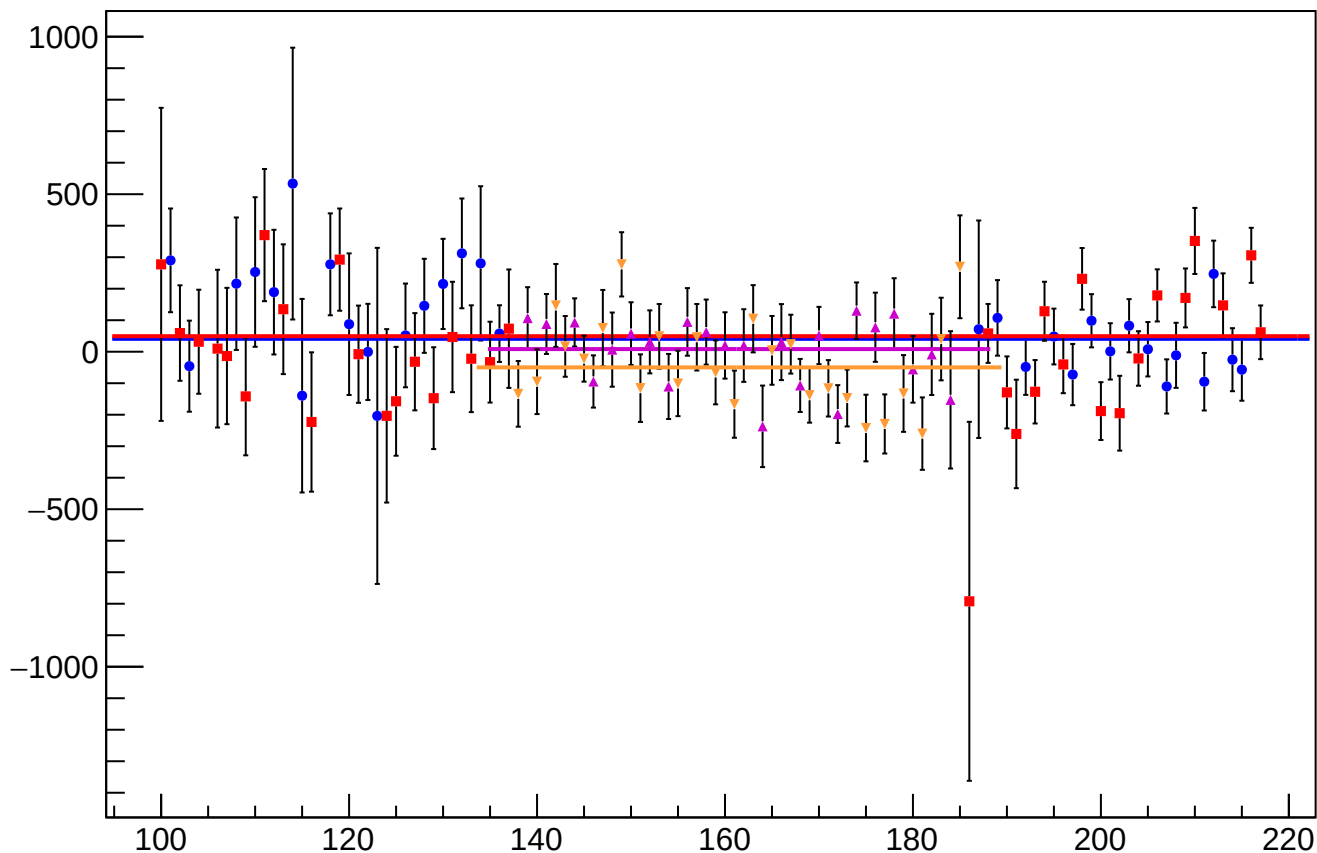
Right: 1882.335 $\pm$ 0.233 χ^2 /NDF: 6667049.0/67

In: 1038.018 $\pm$ 0.136 χ^2 /NDF: 10905898.9/54

Out: 1041.394 $\pm$ 0.133 χ^2 /NDF: 12620749.3/60

All: 1039.744 $\pm$ 0.095 χ^2 /NDF: 23526964.0/121

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 40.980+/-21.347 χ^2/NDF : 28.8/31

Left Out: -49.717+/-20.580 χ^2/NDF : 39.4/24

Right Out: 49.245+/-20.919 χ^2/NDF : 62.2/35

Left In: 8.343+/-21.271 χ^2/NDF : 22.0/22

Left: -21.646+/-14.791 χ^2/NDF : 65.3/47

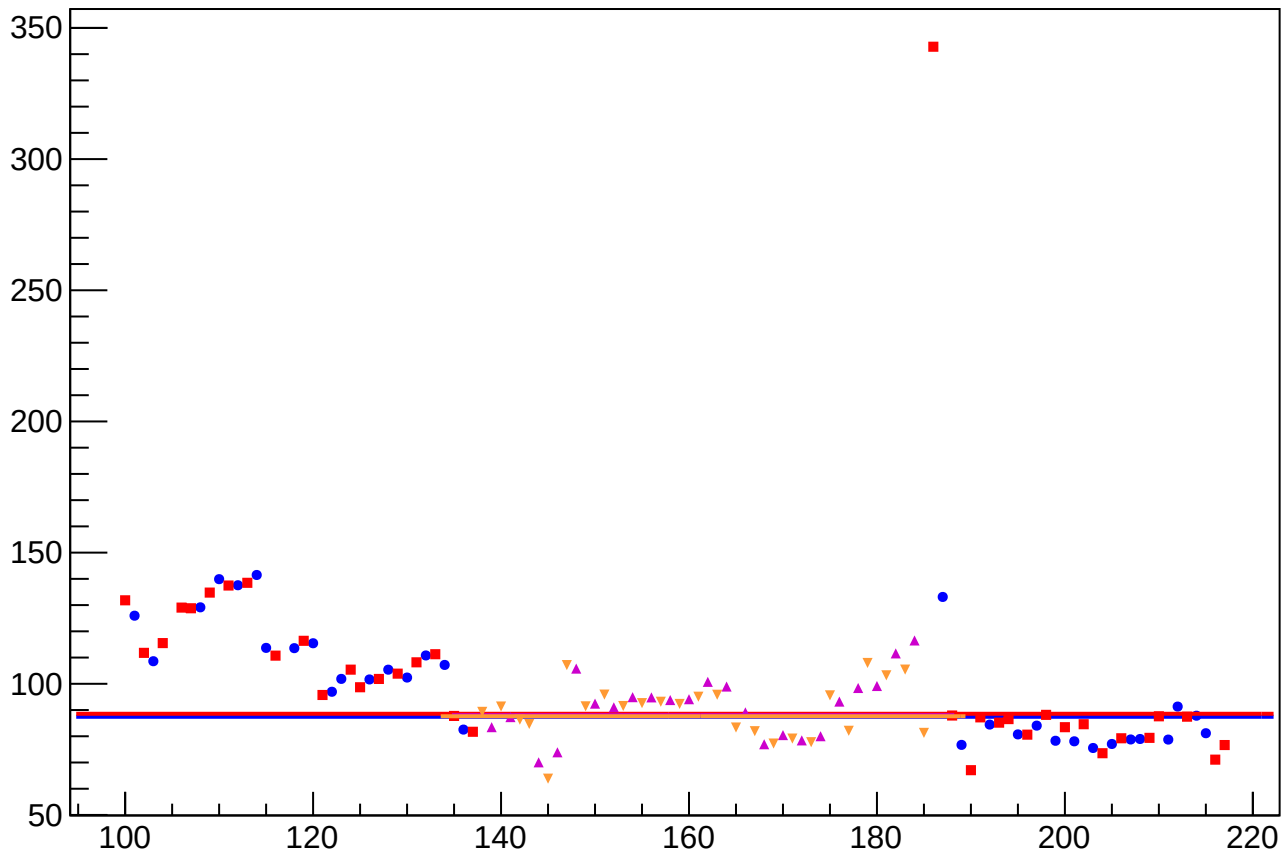
Right: 45.196+/-14.941 χ^2/NDF : 91.0/67

In: 24.604+/-15.068 χ^2/NDF : 51.9/54

Out: -1.045+/-14.671 χ^2/NDF : 112.9/60

All: 11.437+/-10.511 χ^2/NDF : 166.3/115

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 87.431 $\pm$ 0.015 χ^2 /NDF: 960323.0/31

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 88.574 $\pm$ 0.015 χ^2 /NDF: 1499527.0/35

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

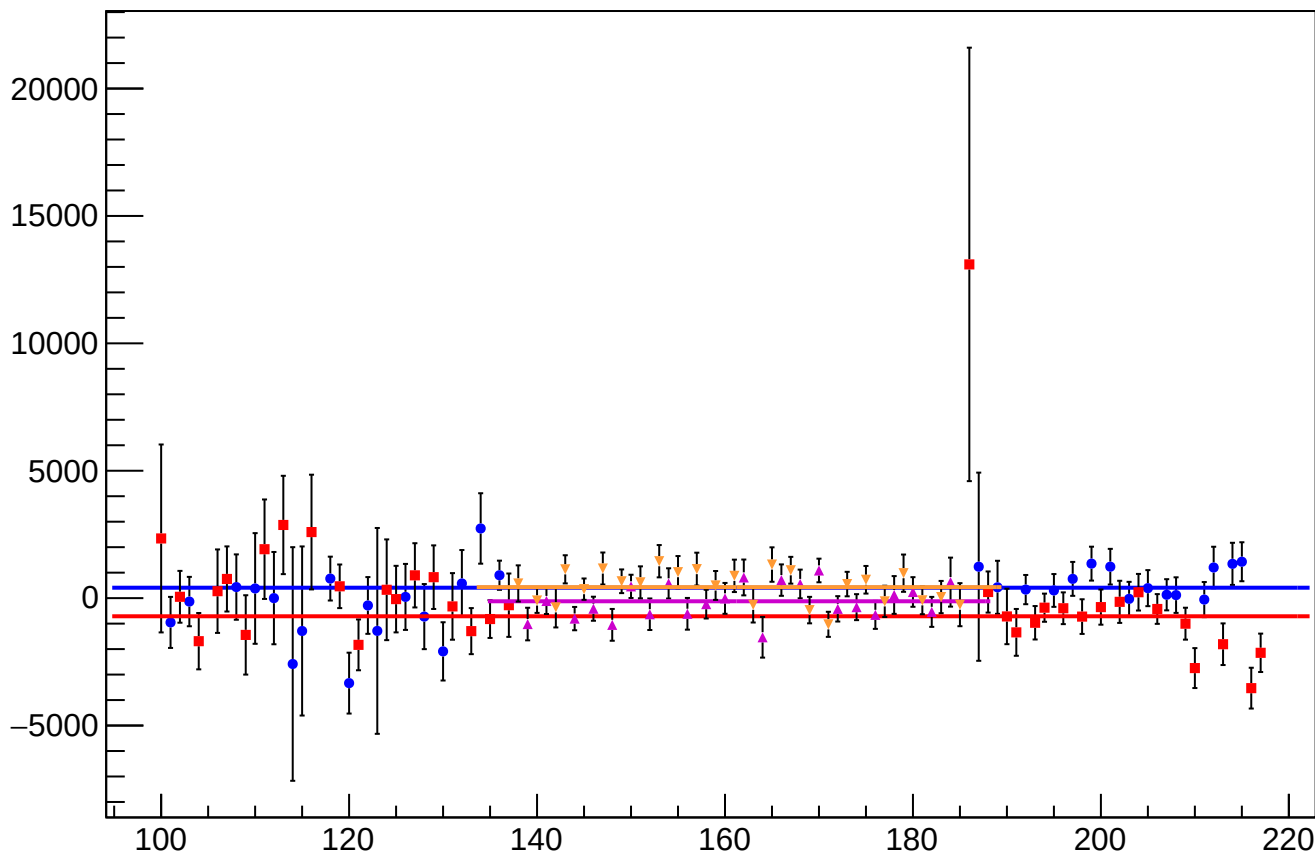
Right: 88.014 $\pm$ 0.011 χ^2 /NDF: 2462774.1/67

In: 87.733 $\pm$ 0.011 χ^2 /NDF: 1484829.8/54

Out: 88.092 $\pm$ 0.010 χ^2 /NDF: 2056306.4/60

All: 87.917 $\pm$ 0.007 χ^2 /NDF: 3541719.8/115

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 409.190 $\pm$ 155.917 χ^2 /NDF: 31.7/31

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -711.903 $\pm$ 150.602 χ^2 /NDF: 51.6/35

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

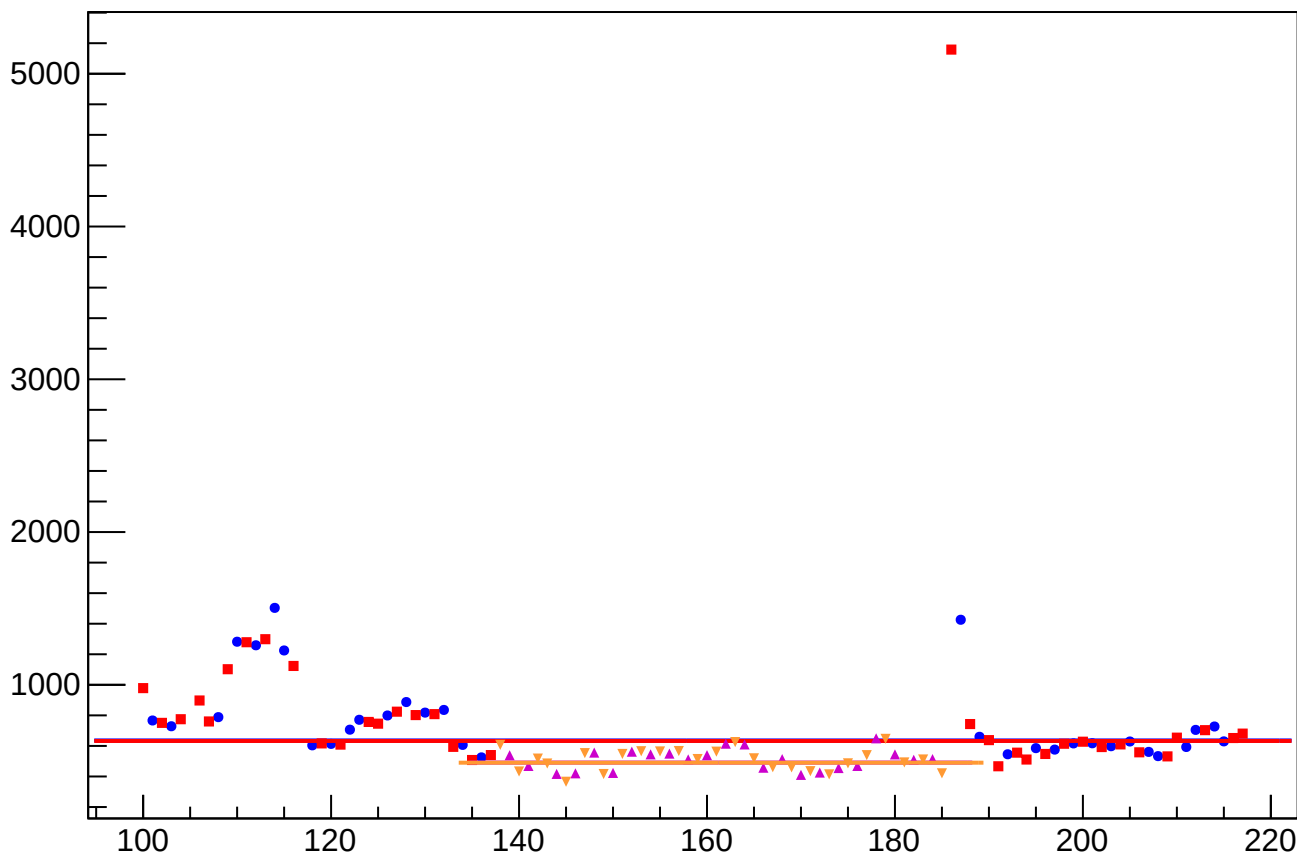
Right: -170.790 $\pm$ 108.322 χ^2 /NDF: 110.1/67

In: 72.572 $\pm$ 94.520 χ^2 /NDF:68.4/54

Out: 7.197 $\pm$ 91.753 χ^2 /NDF:118.3/60

All: 38.914 $\pm$ 65.836 χ^2 /NDF: 186.9/115

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 635.801 $\pm$ 0.110 χ^2 /NDF: 1225464.2/31

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 632.445 $\pm$ 0.106 χ^2 /NDF: 2048603.3/35

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

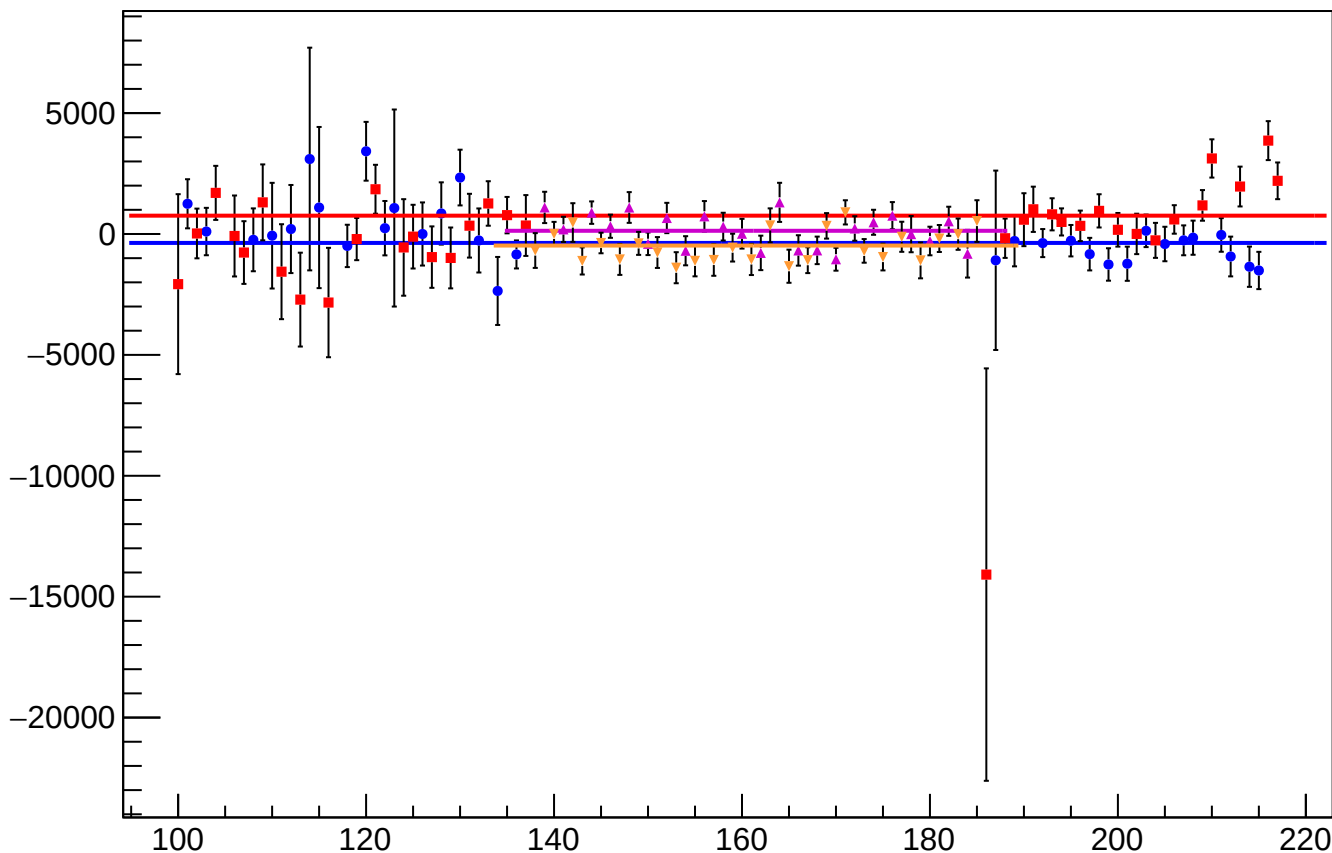
Right: 634.065 $\pm$ 0.077 χ^2 /NDF: 3274546.8/67

In: 544.158 $\pm$ 0.067 χ^2 /NDF: 2907107.3/54

Out: 543.040 $\pm$ 0.065 χ^2 /NDF: 3919772.1/60

All: 543.582 $\pm$ 0.047 χ^2 /NDF: 6827023.5/115

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -369.427 $\pm$ 157.528 χ^2 /NDF: 31.7/31

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 758.043 $\pm$ 152.267 χ^2 /NDF: 57.0/35

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

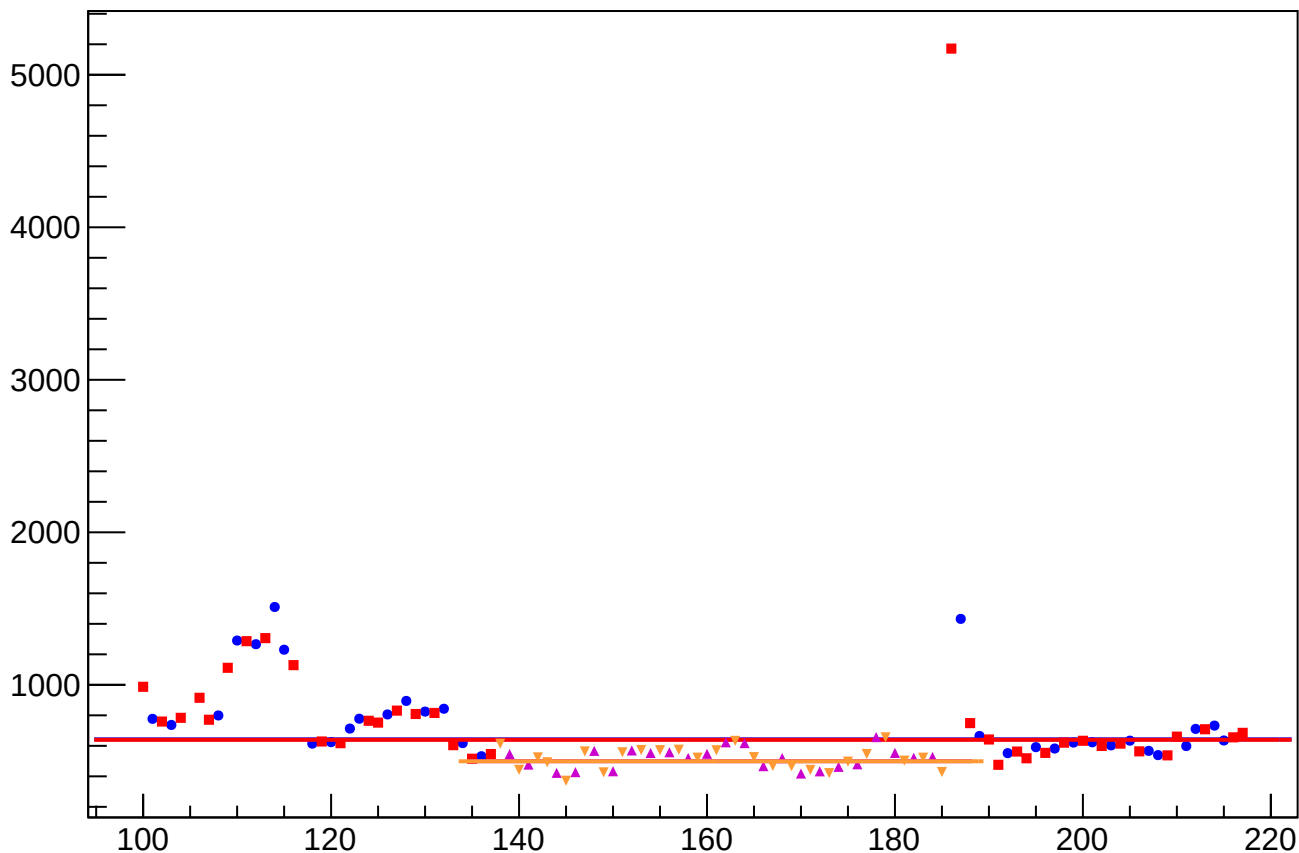
Right: 213.449 $\pm$ 109.482 χ^2 /NDF: 115.2/67

In: -53.464 $\pm$ 95.892 χ^2 /NDF:67.7/54

Out: -16.015 $\pm$ 93.102 χ^2 /NDF:126.0/60

All: -34.187 $\pm$ 66.798 χ^2 /NDF: 193.8/115

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 642.536+/-0.111 χ^2/NDF : 1213380.6/31

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 639.675+/-0.108 χ^2/NDF : 2025974.5/35

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

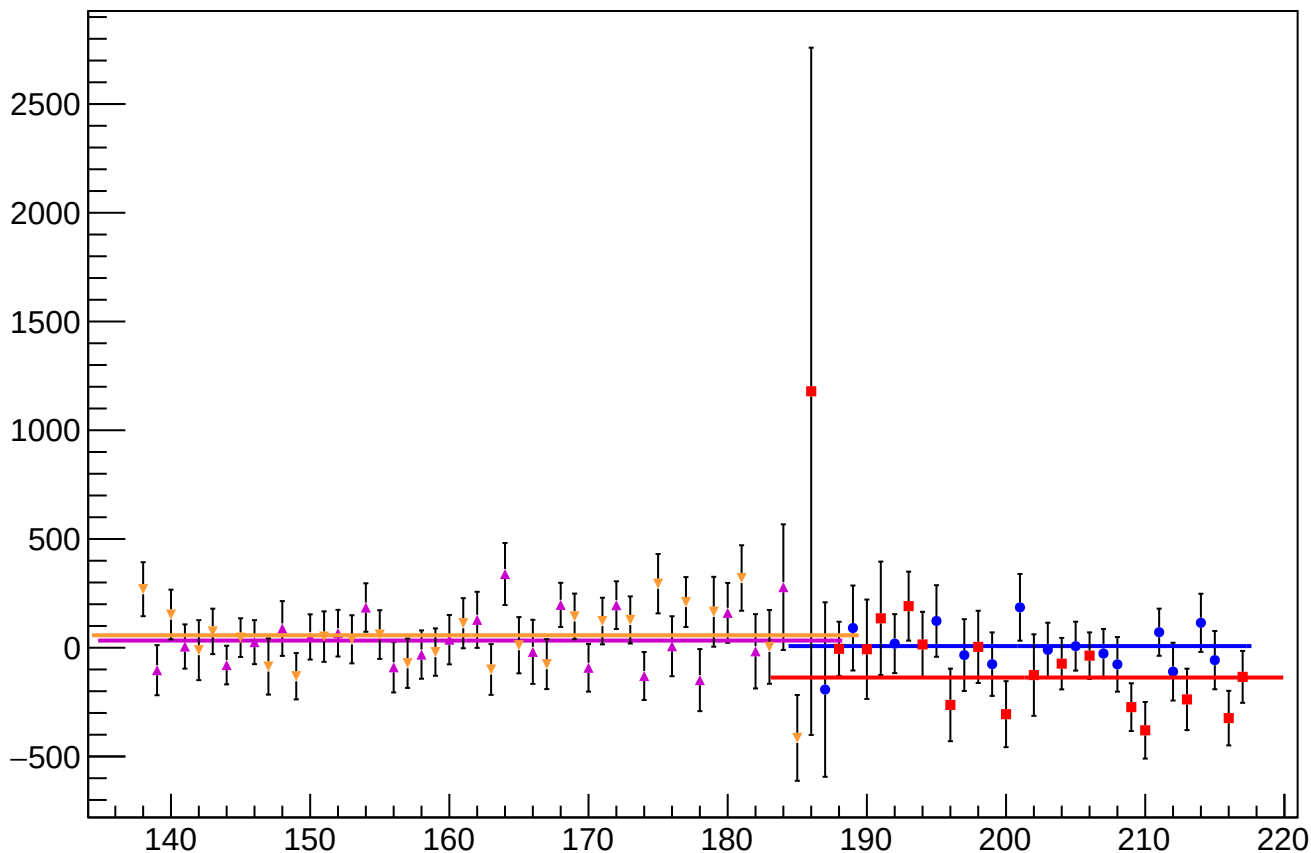
Right: 641.057+/-0.077 χ^2/NDF : 3239696.1/67

In: 552.435+/-0.068 χ^2/NDF : 2829391.6/54

Out: 551.439+/-0.066 χ^2/NDF : 3832882.9/60

All: 551.922+/-0.047 χ^2/NDF : 6662385.6/115

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 7.525 ± 35.615 $\chi^2/\text{NDF}: 5.2/14$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -137.068 ± 35.097 $\chi^2/\text{NDF}: 20.0/16$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

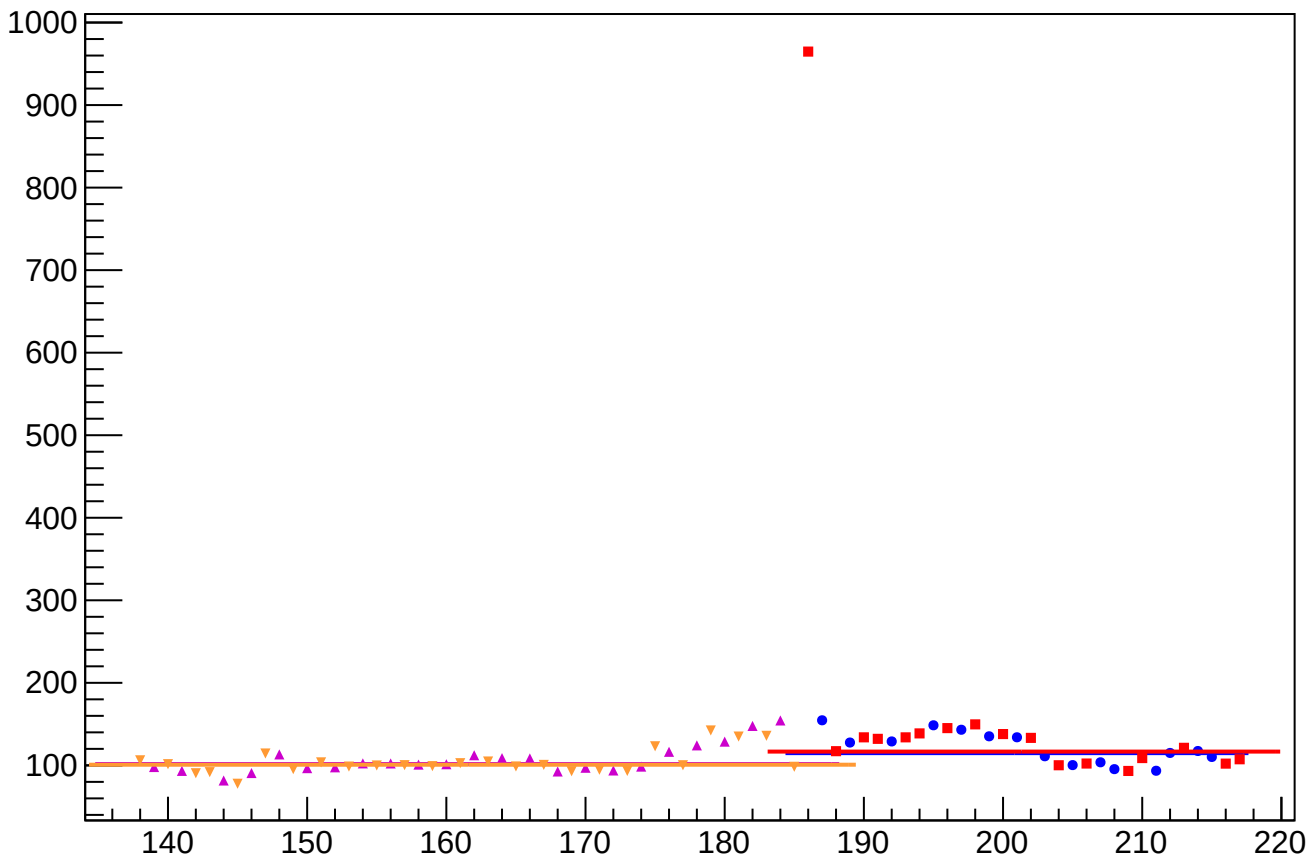
Right: -65.831 ± 24.998 $\chi^2/\text{NDF}: 33.6/31$

In: 24.742 ± 20.234 $\chi^2/\text{NDF}: 29.2/37$

Out: -3.683 ± 19.649 $\chi^2/\text{NDF}: 70.2/41$

All: 10.113 ± 14.096 $\chi^2/\text{NDF}: 100.4/79$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 114.828+/-0.025 χ^2/NDF : 446386.6/14

Left Out: 100.801+/-0.017 χ^2/NDF : 600502.4/24

Right Out: 116.690+/-0.025 χ^2/NDF : 1068731.7/16

Left In: 101.622+/-0.017 χ^2/NDF : 582329.3/22

Left: 101.196+/-0.012 χ^2/NDF : 1183987.6/47

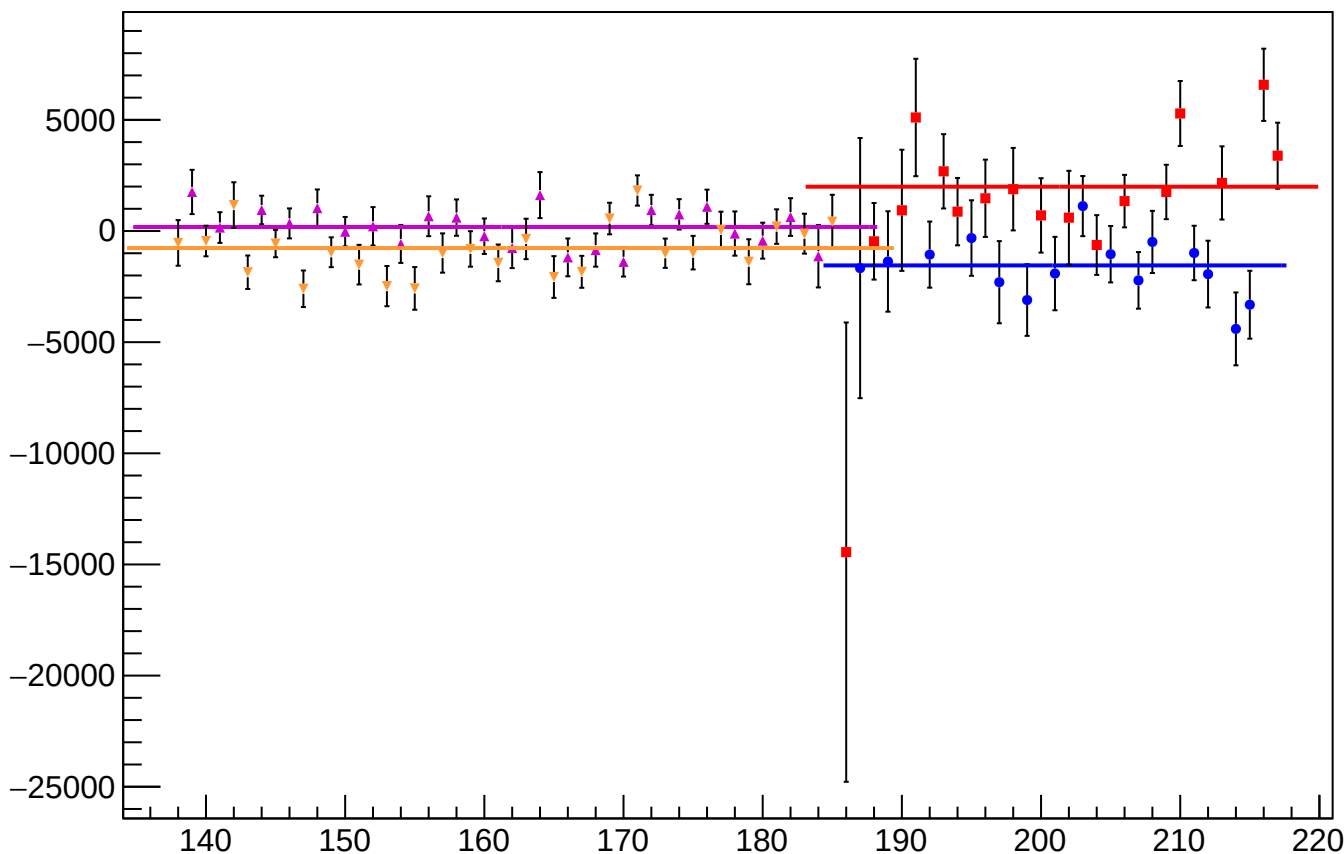
Right: 115.773+/-0.018 χ^2/NDF : 1517894.0/31

In: 105.884+/-0.014 χ^2/NDF : 1214939.6/37

Out: 105.781+/-0.014 χ^2/NDF : 1950697.6/41

All: 105.831+/-0.010 χ^2/NDF : 3165664.0/79

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1547.219 $\pm$ 399.244 χ^2 /NDF: 11.3/14

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1993.826 $\pm$ 400.685 χ^2 /NDF: 26.0/16

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

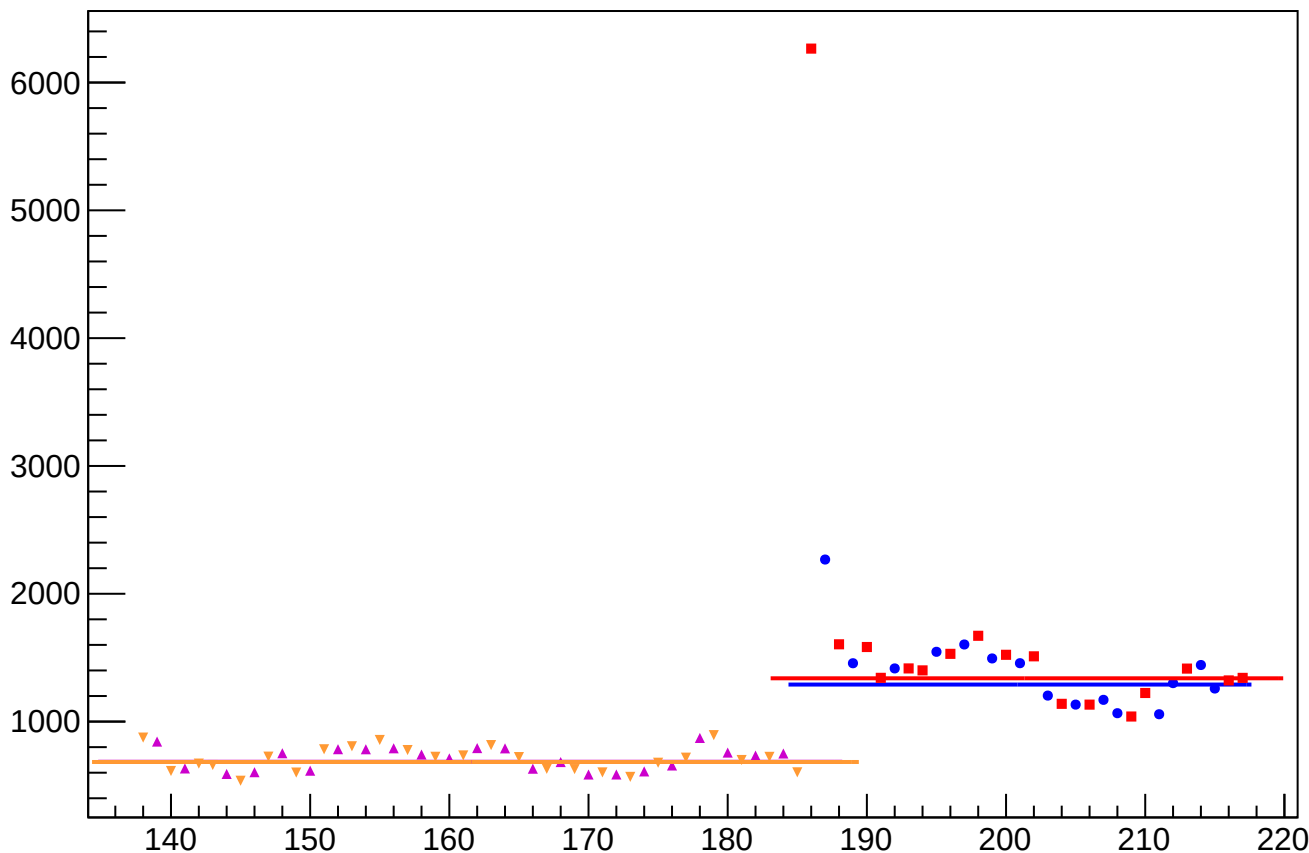
Right: 216.923 $\pm$ 282.816 χ^2 /NDF: 76.6/31

In: -72.374 $\pm$ 153.019 χ^2 /NDF:52.3/37

Out: -382.395 $\pm$ 149.444 χ^2 /NDF:113.4/41

All: -231.048 $\pm$ 106.915 χ^2 /NDF: 167.9/79

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1289.667 $\pm$ 0.282 χ^2 /NDF: 434726.2/14

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF:667158.2/24

Right Out: 1338.591 $\pm$ 0.283 χ^2 /NDF: 893430.3/16

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF:529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

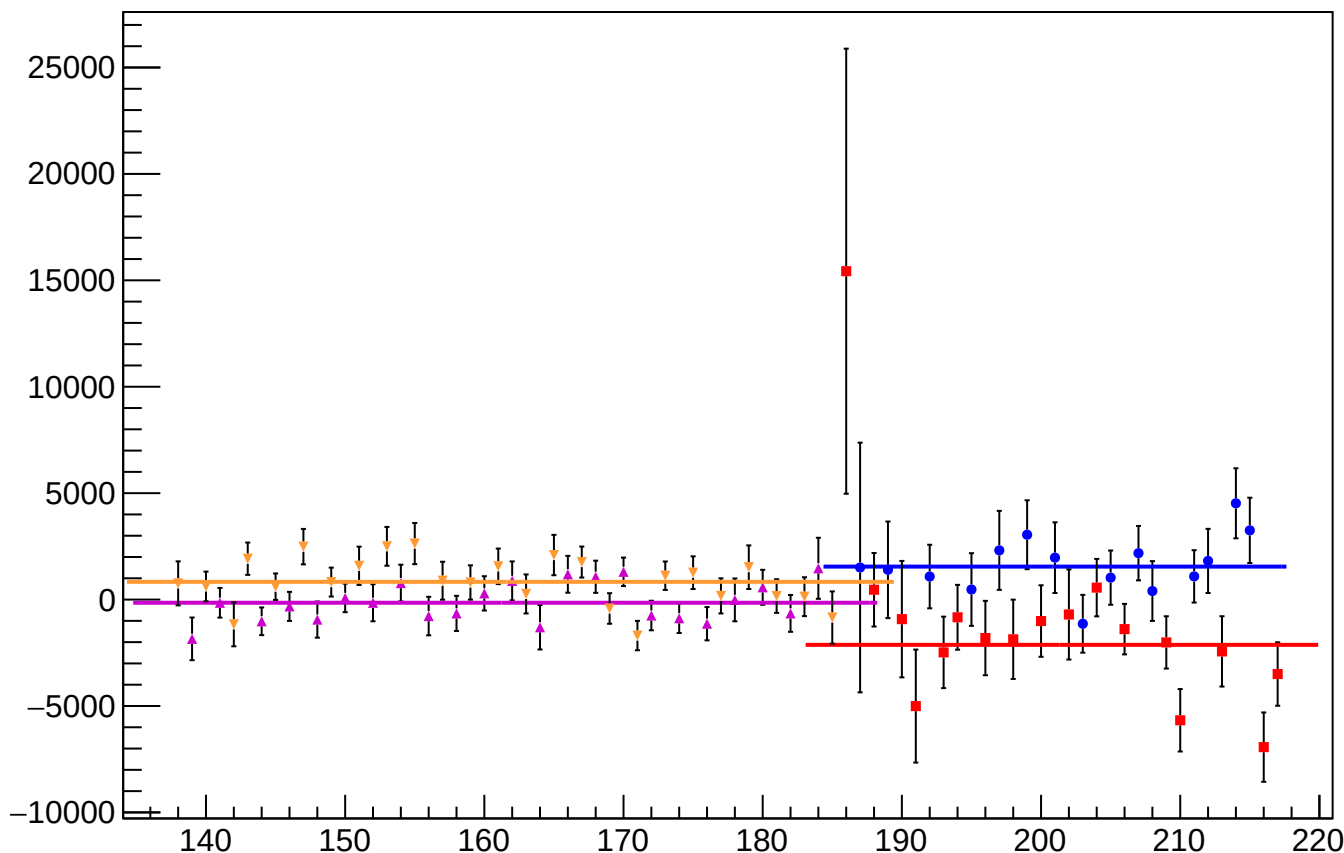
Right: 1314.041 $\pm$ 0.200 χ^2 /NDF: 1343118.4/31

In: 774.330 $\pm$ 0.108 χ^2 /NDF:4870110.2/37

Out: 774.959 $\pm$ 0.106 χ^2 /NDF:6157492.6/41

All: 774.652 $\pm$ 0.076 χ^2 /NDF: 11027620.0/79

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1549.691 $\pm$ 400.887 χ^2 /NDF: 11.2/14

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF: 43.2/24

Right Out: -2127.081 $\pm$ 402.318 χ^2 /NDF: 27.9/16

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF: 26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

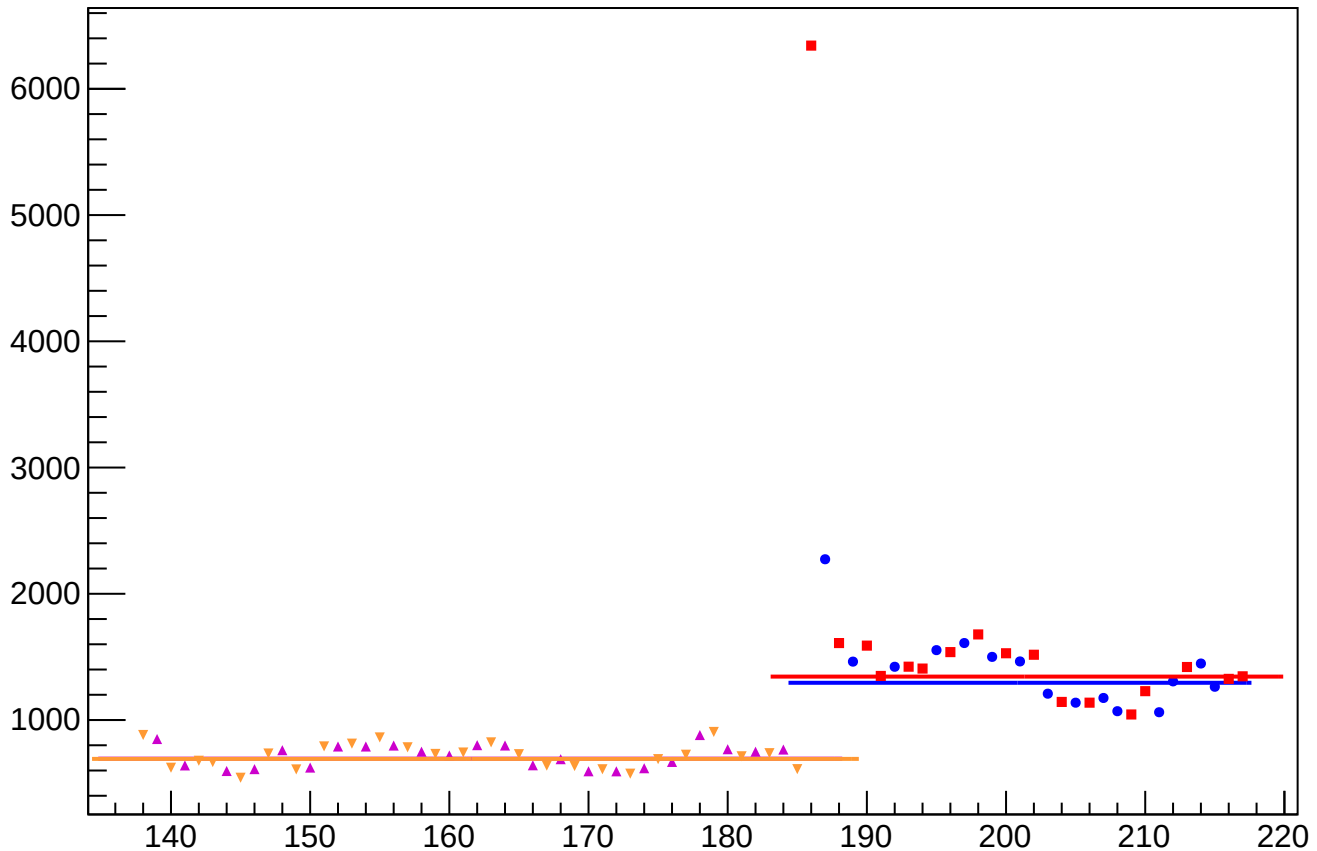
Right: -282.145 $\pm$ 283.975 χ^2 /NDF: 81.1/31

In: 104.003 $\pm$ 154.665 χ^2 /NDF: 52.6/37

Out: 416.113 $\pm$ 151.044 χ^2 /NDF: 117.7/41

All: 263.755 $\pm$ 108.062 χ^2 /NDF: 172.3/79

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1294.974 $\pm$ 0.283 χ^2 /NDF: 435197.8/14

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1344.009 $\pm$ 0.284 χ^2 /NDF: 895892.0/16

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

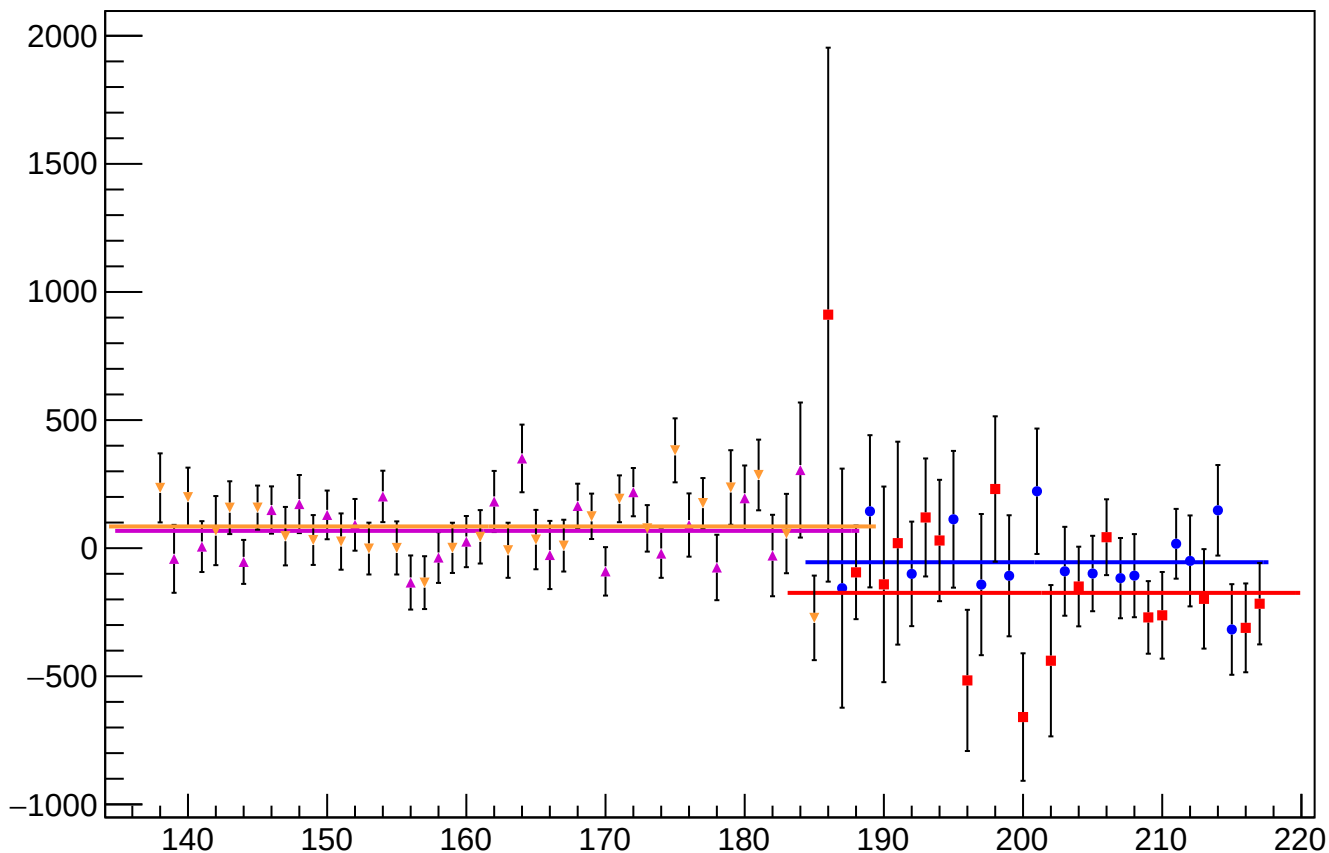
Right: 1319.404 $\pm$ 0.201 χ^2 /NDF: 1345997.8/31

In: 783.340 $\pm$ 0.109 χ^2 /NDF: 4784587.7/37

Out: 783.984 $\pm$ 0.107 χ^2 /NDF: 6064299.5/41

All: 783.670 $\pm$ 0.076 χ^2 /NDF: 10848905.0/79

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -54.873 ± 49.418 χ^2/NDF : 6.6/14

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -174.479 ± 49.675 χ^2/NDF : 15.7/16

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

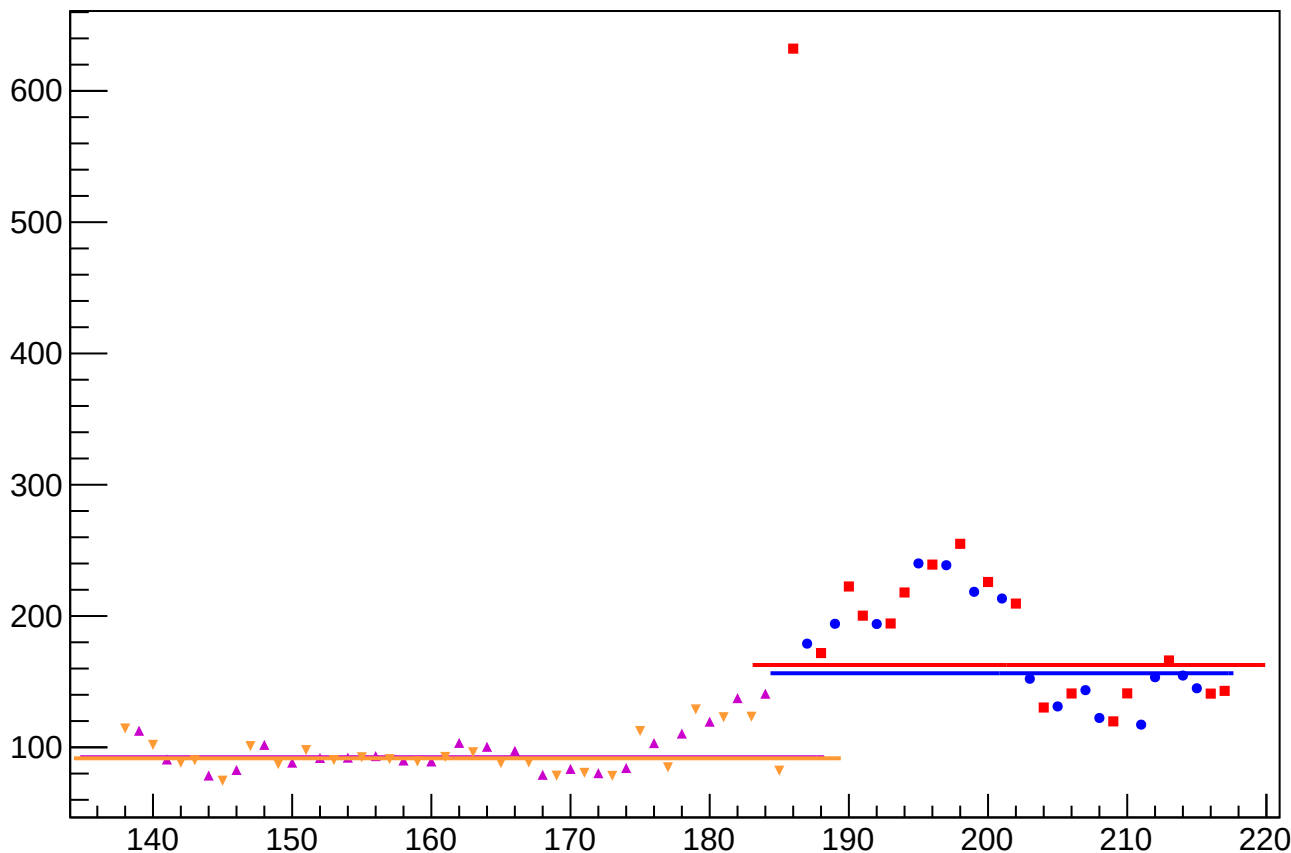
Right: -114.366 ± 35.034 χ^2/NDF : 25.2/31

In: 46.610 ± 20.439 χ^2/NDF : 40.5/37

Out: 43.485 ± 19.841 χ^2/NDF : 67.1/41

All: 45.001 ± 14.237 χ^2/NDF : 107.6/79

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 156.412 $\pm$ 0.035 χ^2 /NDF: 1061510.7/14

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 162.713 $\pm$ 0.035 χ^2 /NDF: 1578925.1/16

Left In: 92.466 $\pm$ 0.016 χ^2 /NDF: 655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2 /NDF: 1350250.3/47

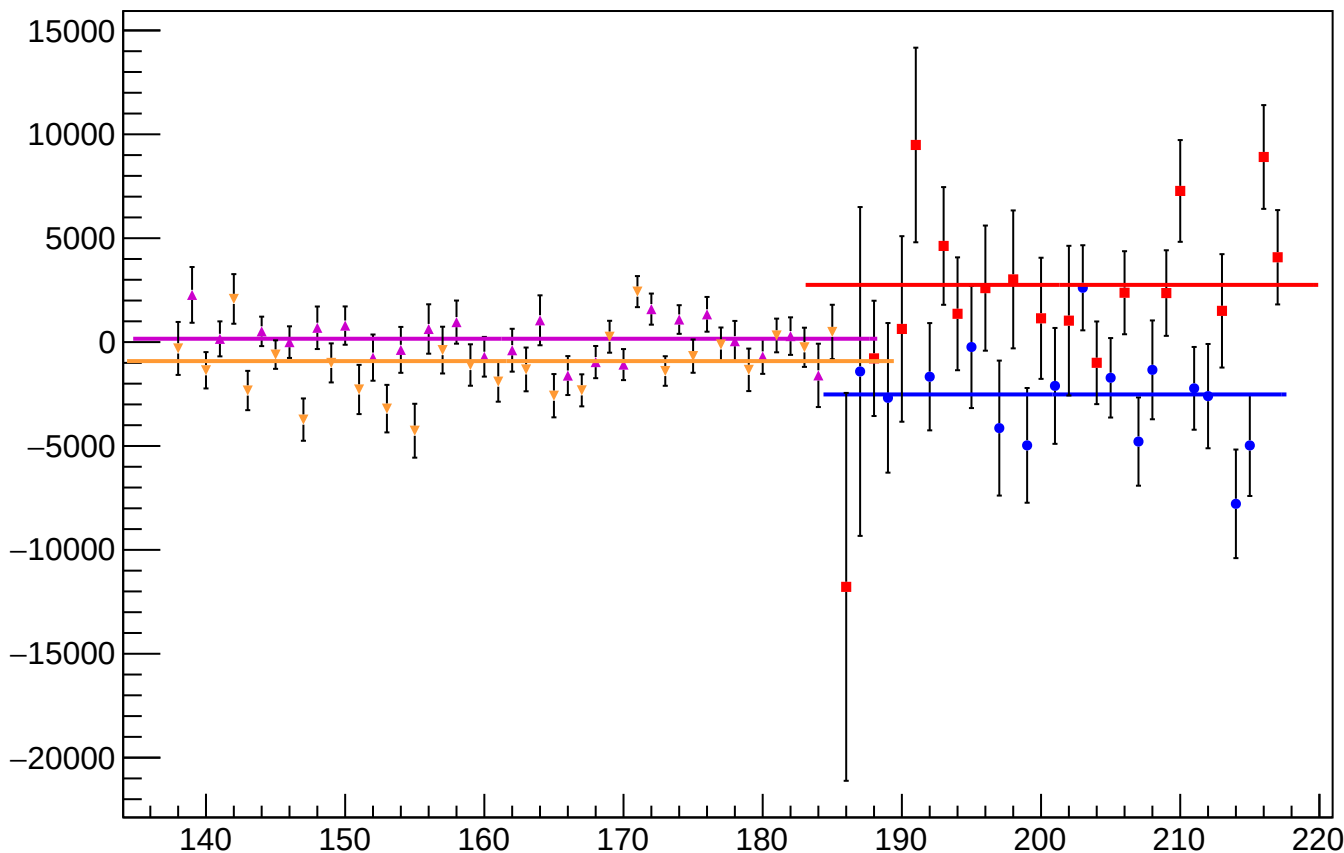
Right: 159.546 $\pm$ 0.025 χ^2 /NDF: 2656604.6/31

In: 103.405 $\pm$ 0.014 χ^2 /NDF: 4493146.9/37

Out: 102.973 $\pm$ 0.014 χ^2 /NDF: 5713672.1/41

All: 103.182 $\pm$ 0.010 χ^2 /NDF: 10207278.6/79

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2519.128 ± 652.373 $\chi^2/\text{NDF}: 14.7/14$

Left Out: -914.719 ± 185.341 $\chi^2/\text{NDF}: 64.2/24$

Right Out: 2753.645 ± 661.222 $\chi^2/\text{NDF}: 21.2/16$

Left In: 161.076 ± 189.491 $\chi^2/\text{NDF}: 25.1/22$

Left: -388.730 ± 132.499 $\chi^2/\text{NDF}: 105.7/47$

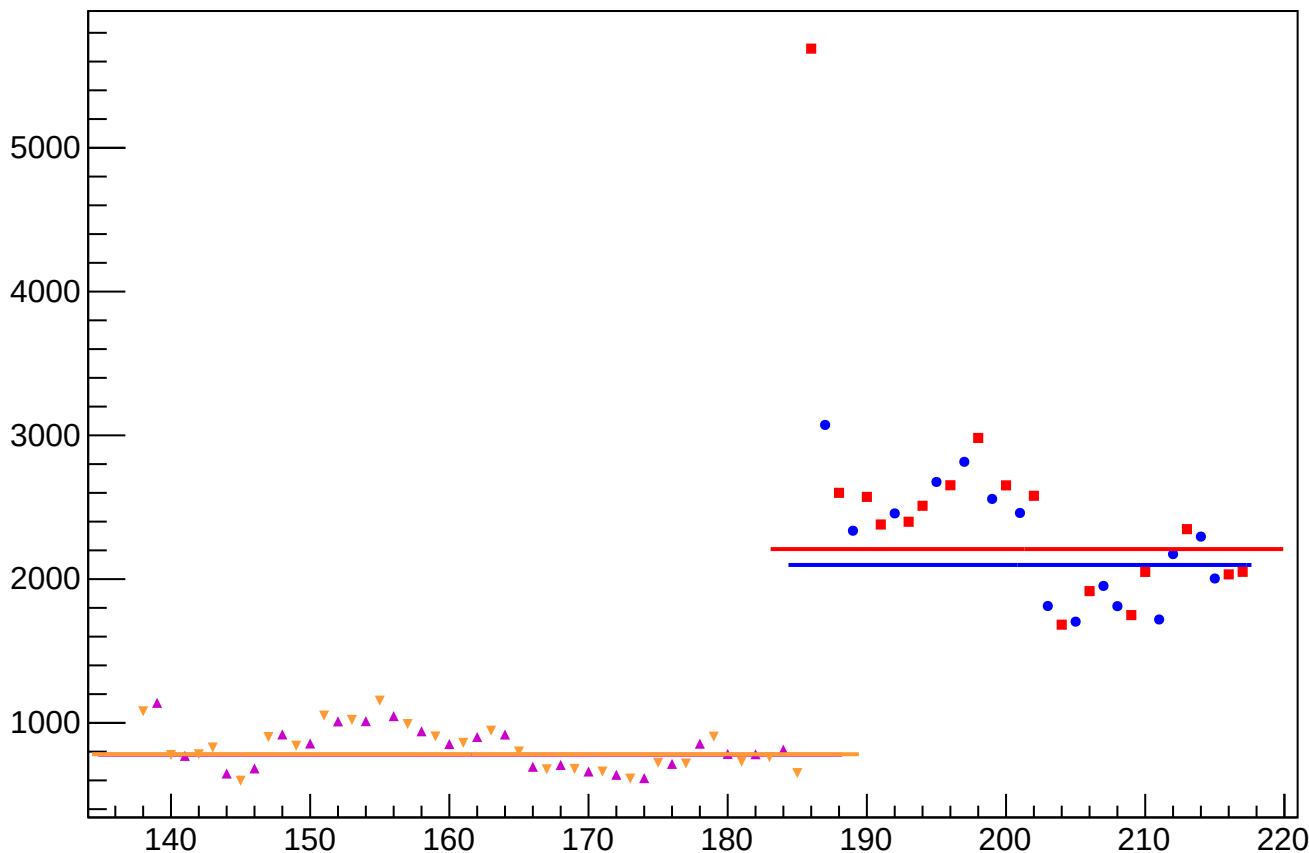
Right: 81.741 ± 464.394 $\chi^2/\text{NDF}: 68.2/31$

In: -47.456 ± 181.970 $\chi^2/\text{NDF}: 55.4/37$

Out: -647.497 ± 178.463 $\chi^2/\text{NDF}: 114.0/41$

All: -353.315 ± 127.414 $\chi^2/\text{NDF}: 174.9/79$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2098.487 $\pm$ 0.461 χ^2 /NDF: 592297.2/14

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2209.006 $\pm$ 0.468 χ^2 /NDF: 901971.6/16

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

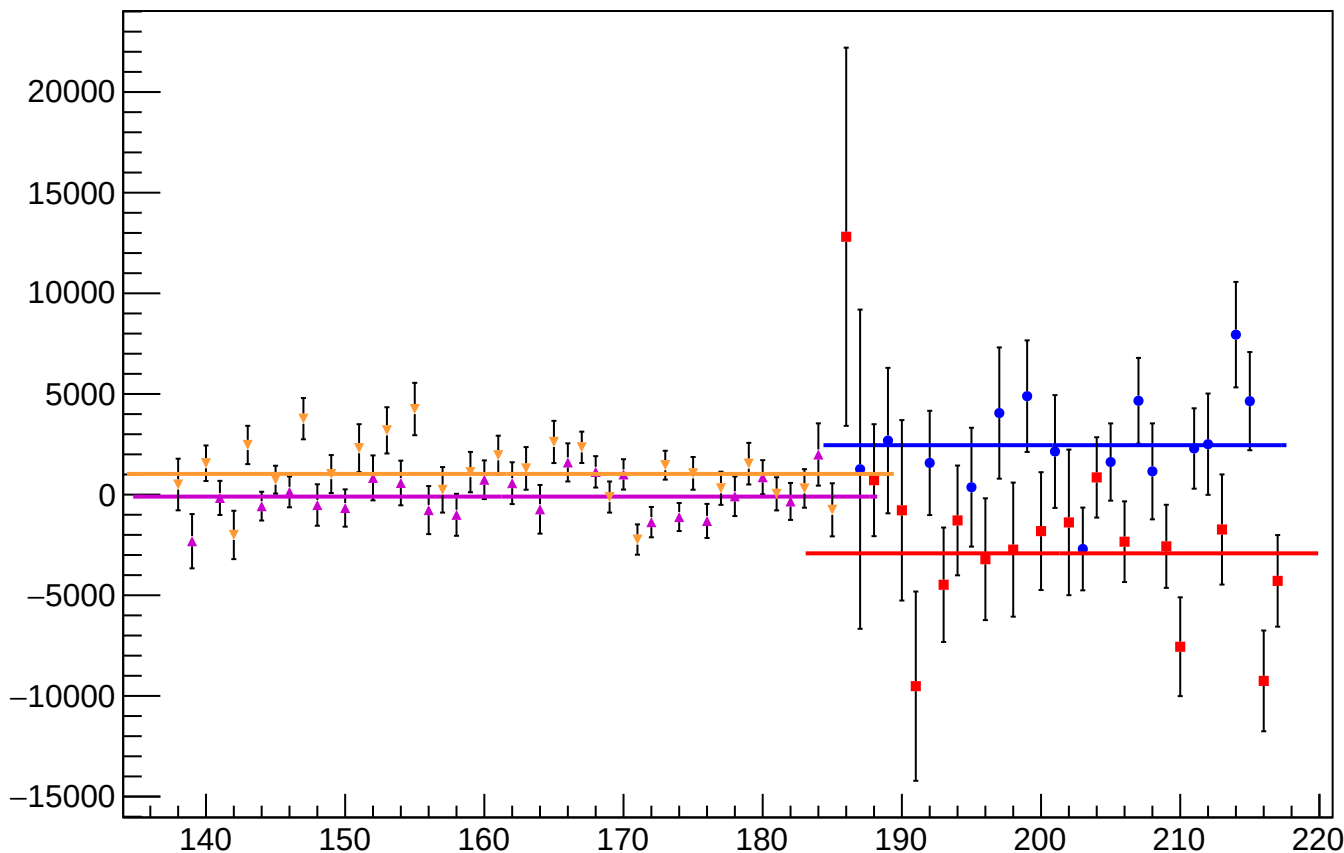
Right: 2153.002 $\pm$ 0.328 χ^2 /NDF: 1522581.7/31

In: 881.657 $\pm$ 0.129 χ^2 /NDF: 9117806.3/37

Out: 885.989 $\pm$ 0.126 χ^2 /NDF: 10668974.5/41

All: 883.865 $\pm$ 0.090 χ^2 /NDF: 19787358.4/79

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2455.715 $\pm$ 654.416 χ^2 /NDF: 14.7/14

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2917.166 $\pm$ 663.275 χ^2 /NDF: 21.9/16

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

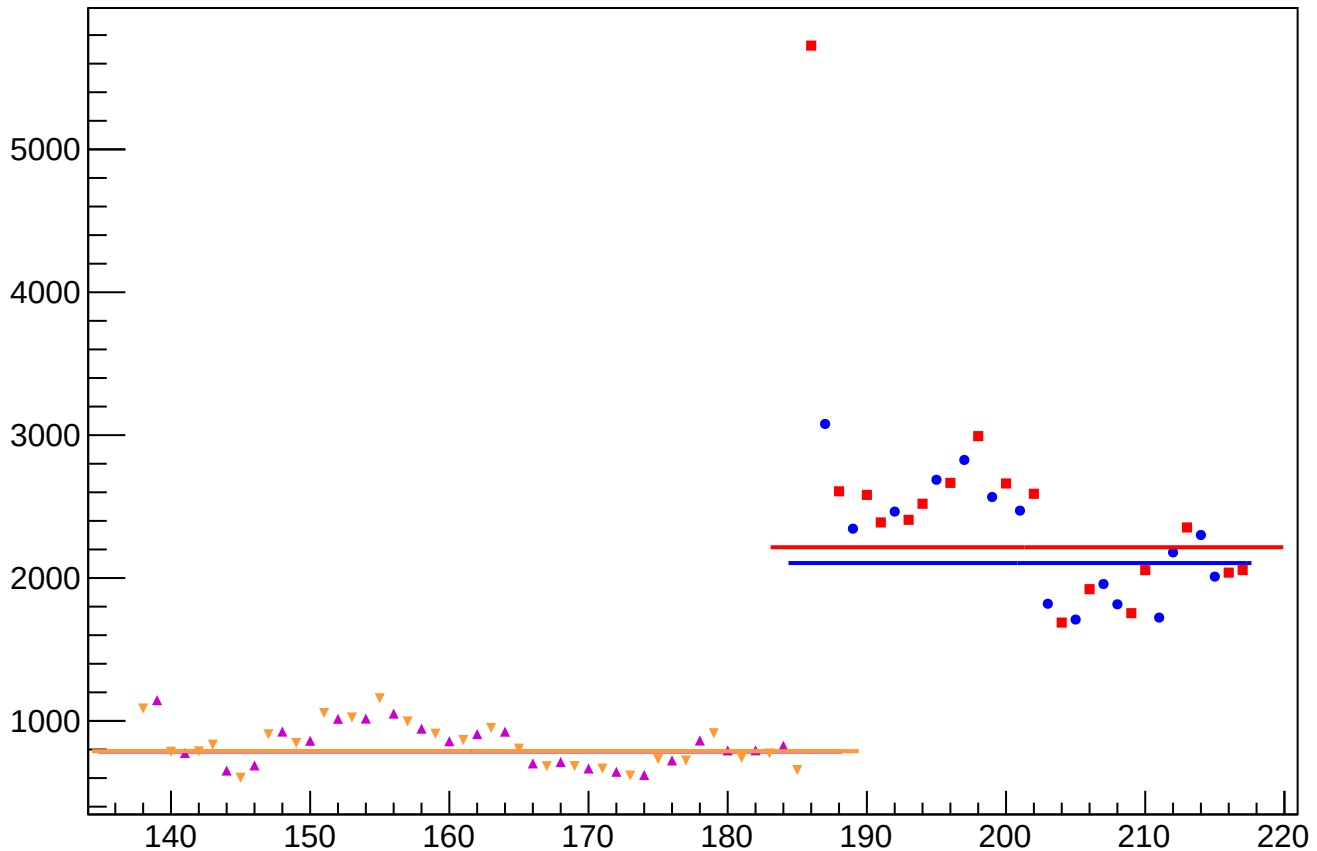
Right: -194.606 $\pm$ 465.843 χ^2 /NDF: 69.9/31

In: 101.875 $\pm$ 183.374 χ^2 /NDF:54.1/37

Out: 738.848 $\pm$ 179.814 χ^2 /NDF:114.9/41

All: 426.604 $\pm$ 128.388 χ^2 /NDF: 175.2/79

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2104.935 $\pm$ 0.463 χ^2 /NDF: 594712.3/14

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF:1113741.6/24

Right Out: 2215.668 $\pm$ 0.469 χ^2 /NDF: 906119.7/16

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF:965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

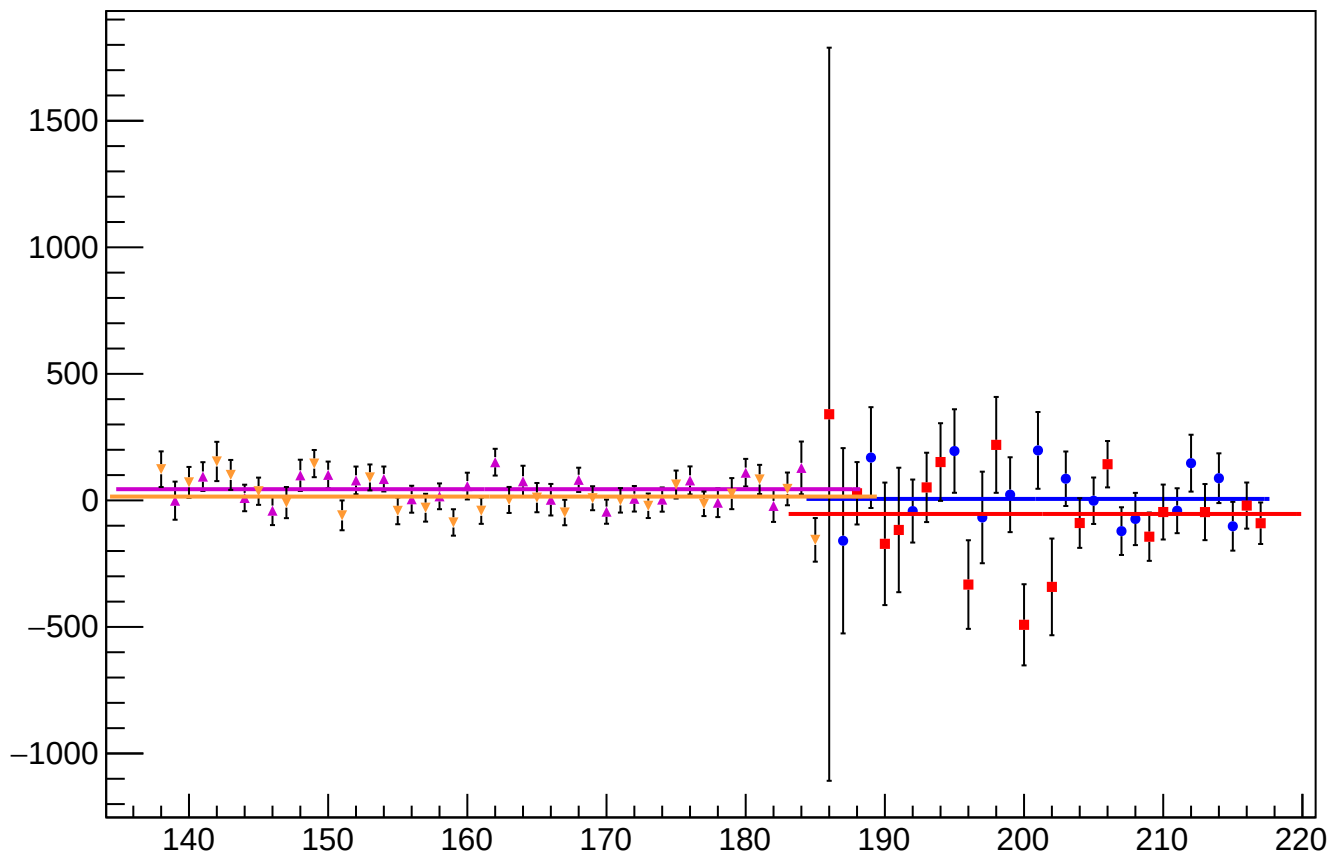
Right: 2159.557 $\pm$ 0.329 χ^2 /NDF: 1529078.7/31

In: 889.090 $\pm$ 0.130 χ^2 /NDF:9051936.6/37

Out: 893.337 $\pm$ 0.127 χ^2 /NDF:10599636.9/41

All: 891.255 $\pm$ 0.091 χ^2 /NDF: 19652120.4/79

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 5.813 ± 30.395 $\chi^2/\text{NDF}: 10.9/14$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -53.588 ± 30.288 $\chi^2/\text{NDF}: 23.5/16$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

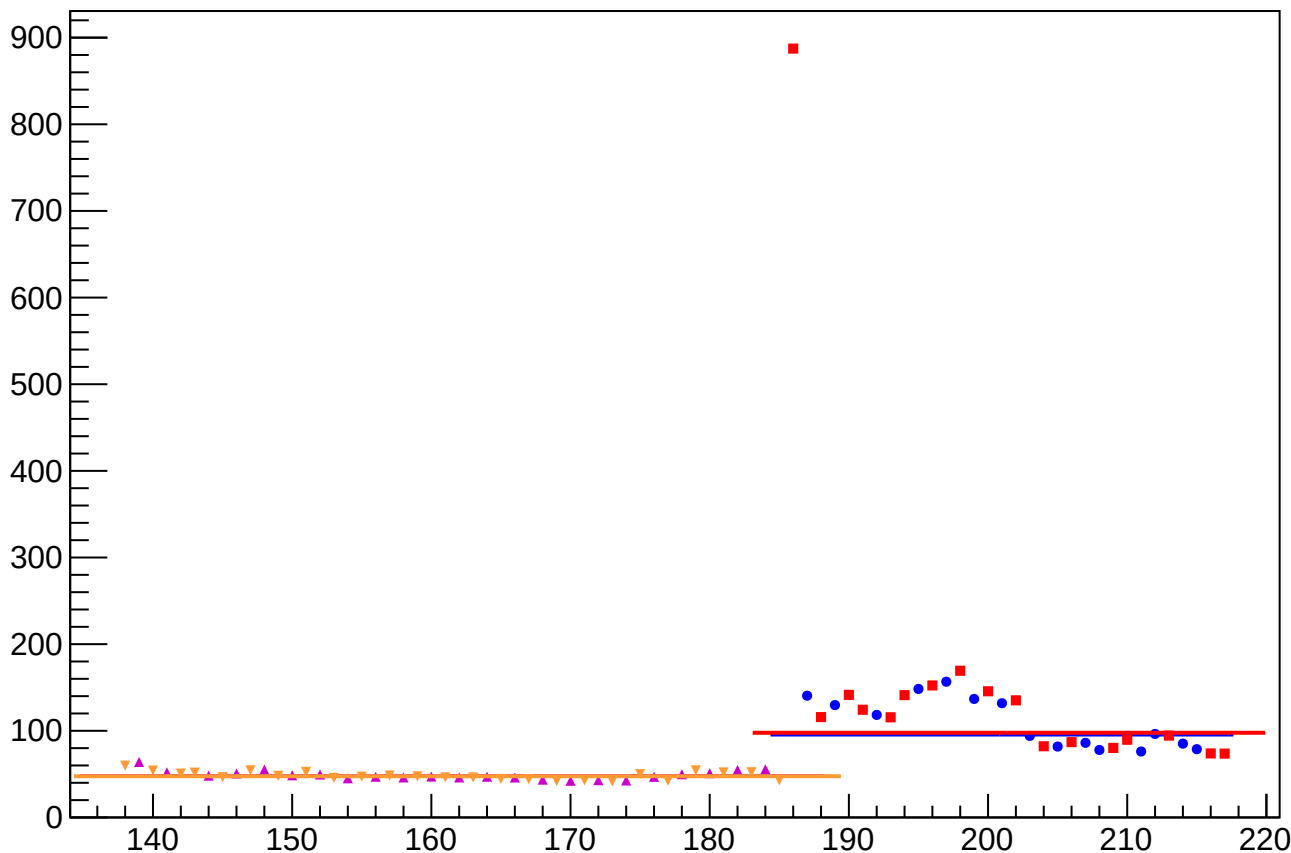
Right: -23.992 ± 21.455 $\chi^2/\text{NDF}: 36.3/31$

In: 39.456 ± 10.780 $\chi^2/\text{NDF}: 34.6/37$

Out: 6.896 ± 10.467 $\chi^2/\text{NDF}: 62.2/41$

All: 22.696 ± 7.510 $\chi^2/\text{NDF}: 101.5/79$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 95.719 $\pm$ 0.021 χ^2 /NDF: 1161000.7/14

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 97.738 $\pm$ 0.021 χ^2 /NDF: 2122179.1/16

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF: 281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

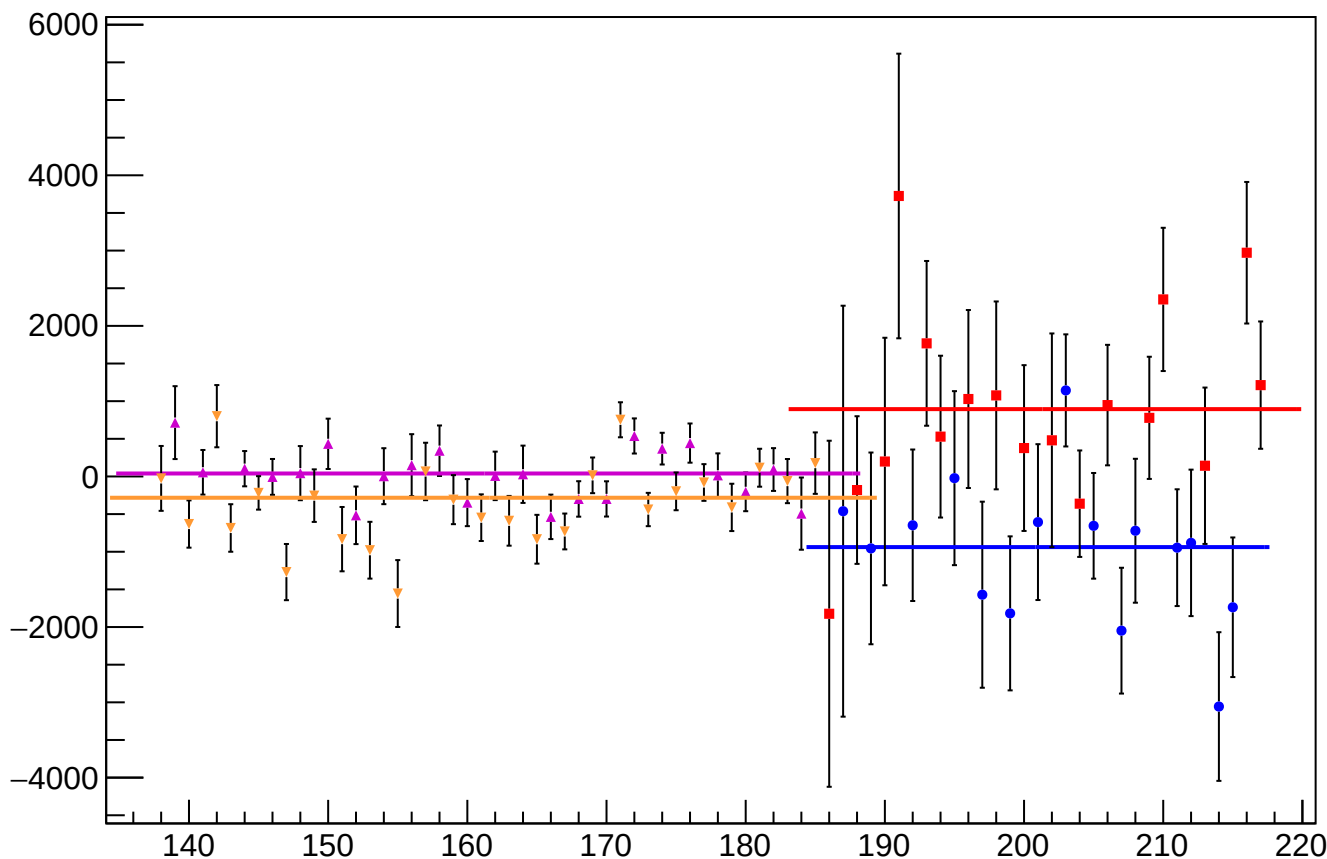
Right: 96.732 $\pm$ 0.015 χ^2 /NDF: 3287607.2/31

In: 53.868 $\pm$ 0.008 χ^2 /NDF: 5780214.5/37

Out: 53.576 $\pm$ 0.007 χ^2 /NDF: 7263679.5/41

All: 53.718 $\pm$ 0.005 χ^2 /NDF: 13044651.5/79

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -938.164+/-247.663 χ^2/NDF : 17.0/14

Left Out: -282.798+/-59.690 χ^2/NDF :66.5/24

Right Out: 894.343+/-250.755 χ^2/NDF : 17.2/16

Left In: 39.432+/-60.759 χ^2/NDF :27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

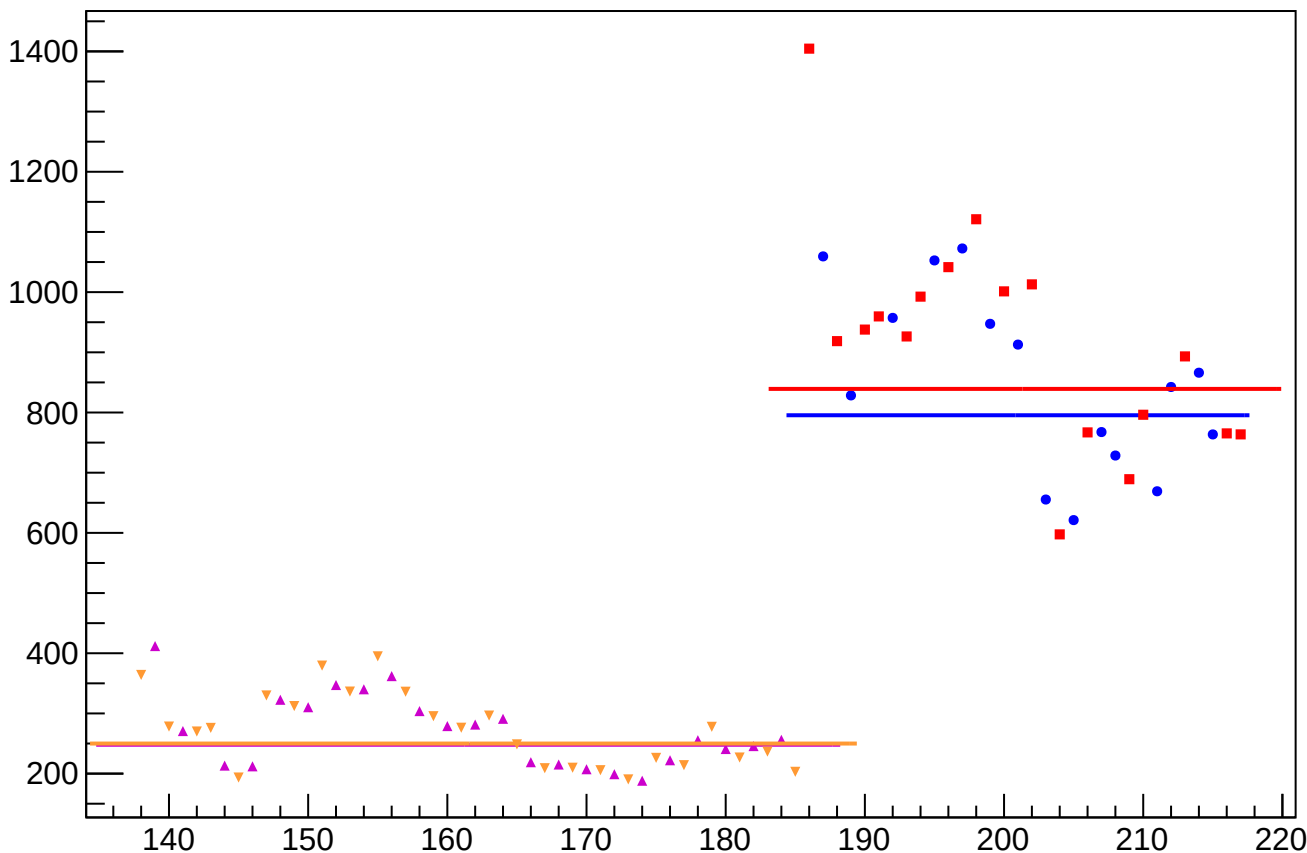
Right: -33.277+/-176.207 χ^2/NDF : 61.2/31

In: -16.066+/-59.009 χ^2/NDF :59.2/37

Out: -219.674+/-58.067 χ^2/NDF :104.6/41

All: -119.508+/-41.389 χ^2/NDF : 169.8/79

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 795.436 $\pm$ 0.175 χ^2 /NDF: 617697.6/14

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 839.224 $\pm$ 0.177 χ^2 /NDF: 793055.6/16

Left In: 247.917 $\pm$ 0.043 χ^2 /NDF:1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47

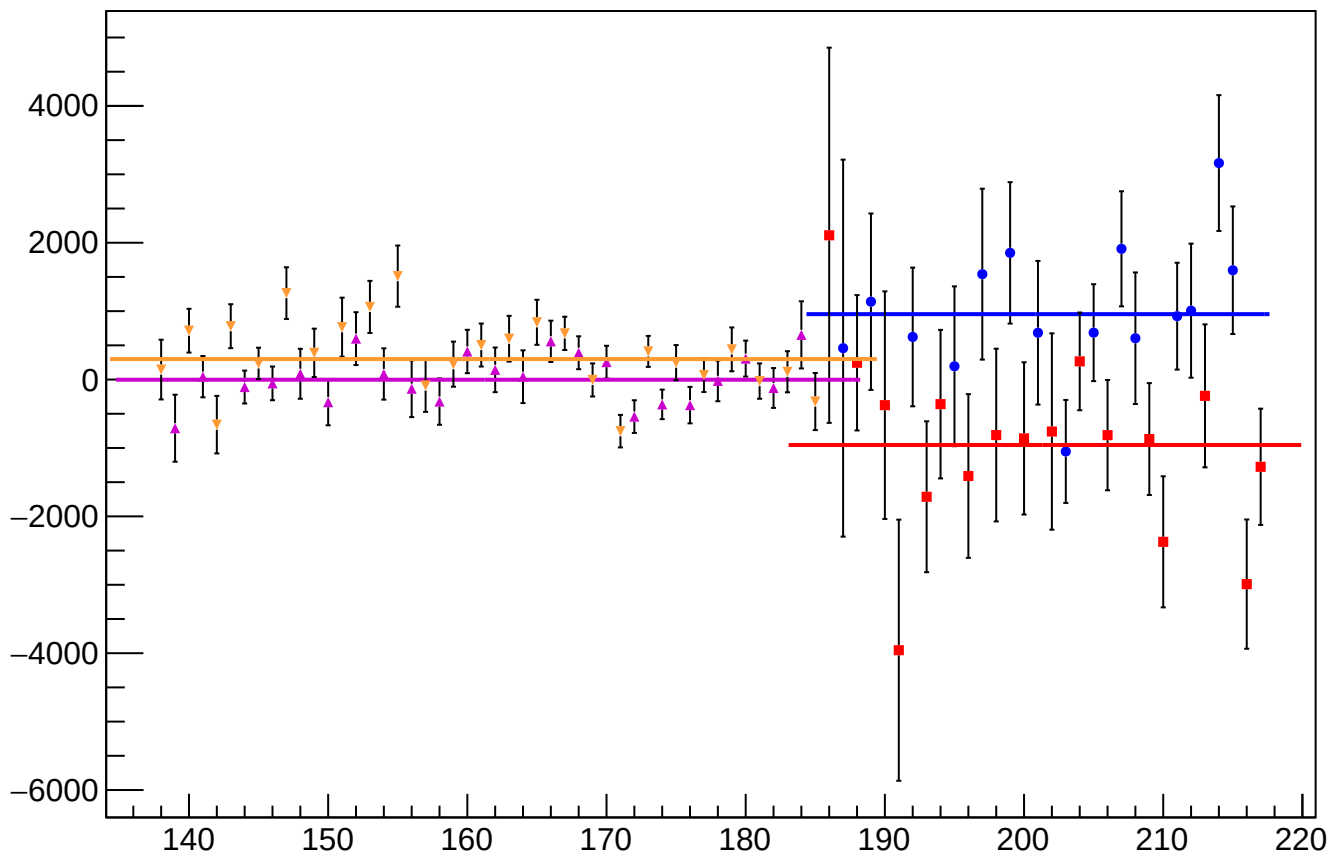
Right: 817.058 $\pm$ 0.125 χ^2 /NDF: 1441625.2/31

In: 278.999 $\pm$ 0.042 χ^2 /NDF:11248412.6/37

Out: 281.556 $\pm$ 0.041 χ^2 /NDF:12859770.7/41

All: 280.298 $\pm$ 0.029 χ^2 /NDF: 24110090.4/79

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 956.008 $\pm$ 249.823 χ^2 /NDF: 15.7/14

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF: 62.5/24

Right Out: -956.572 $\pm$ 253.293 χ^2 /NDF: 16.7/16

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF: 29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

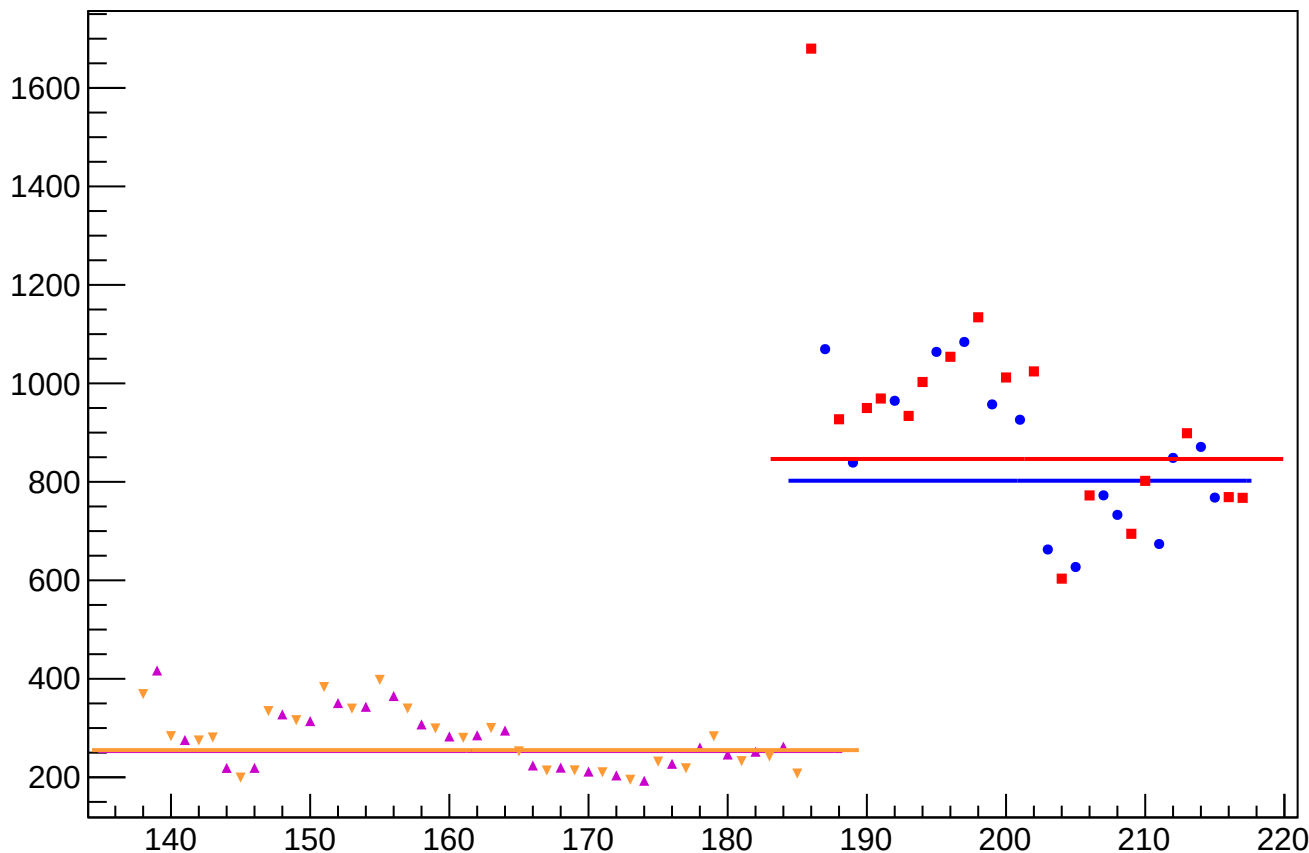
Right: 12.910 $\pm$ 177.866 χ^2 /NDF: 61.3/31

In: 53.415 $\pm$ 60.179 χ^2 /NDF: 58.8/37

Out: 231.002 $\pm$ 59.175 χ^2 /NDF: 102.4/41

All: 143.701 $\pm$ 42.194 χ^2 /NDF: 165.6/79

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 802.296 $\pm$ 0.177 χ^2 /NDF: 621816.5/14

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24

Right Out: 846.451 $\pm$ 0.179 χ^2 /NDF: 864729.3/16

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF: 1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

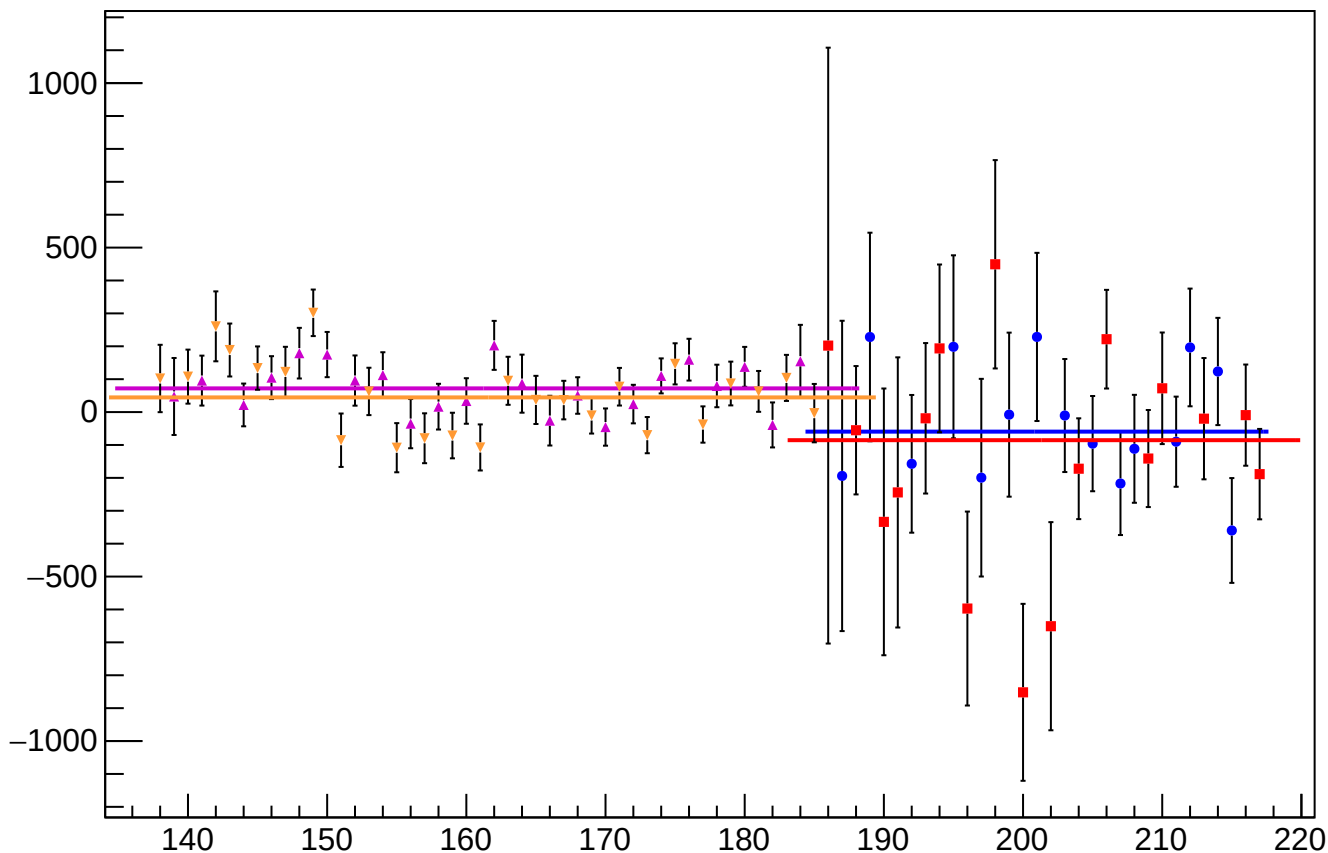
Right: 824.069 $\pm$ 0.126 χ^2 /NDF: 1517353.4/31

In: 285.144 $\pm$ 0.043 χ^2 /NDF: 11061818.6/37

Out: 287.410 $\pm$ 0.042 χ^2 /NDF: 12711708.4/41

All: 286.296 $\pm$ 0.030 χ^2 /NDF: 23774967.8/79

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -59.428 ± 49.162 $\chi^2/\text{NDF}: 11.7/14$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -85.415 ± 49.282 $\chi^2/\text{NDF}: 25.6/16$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

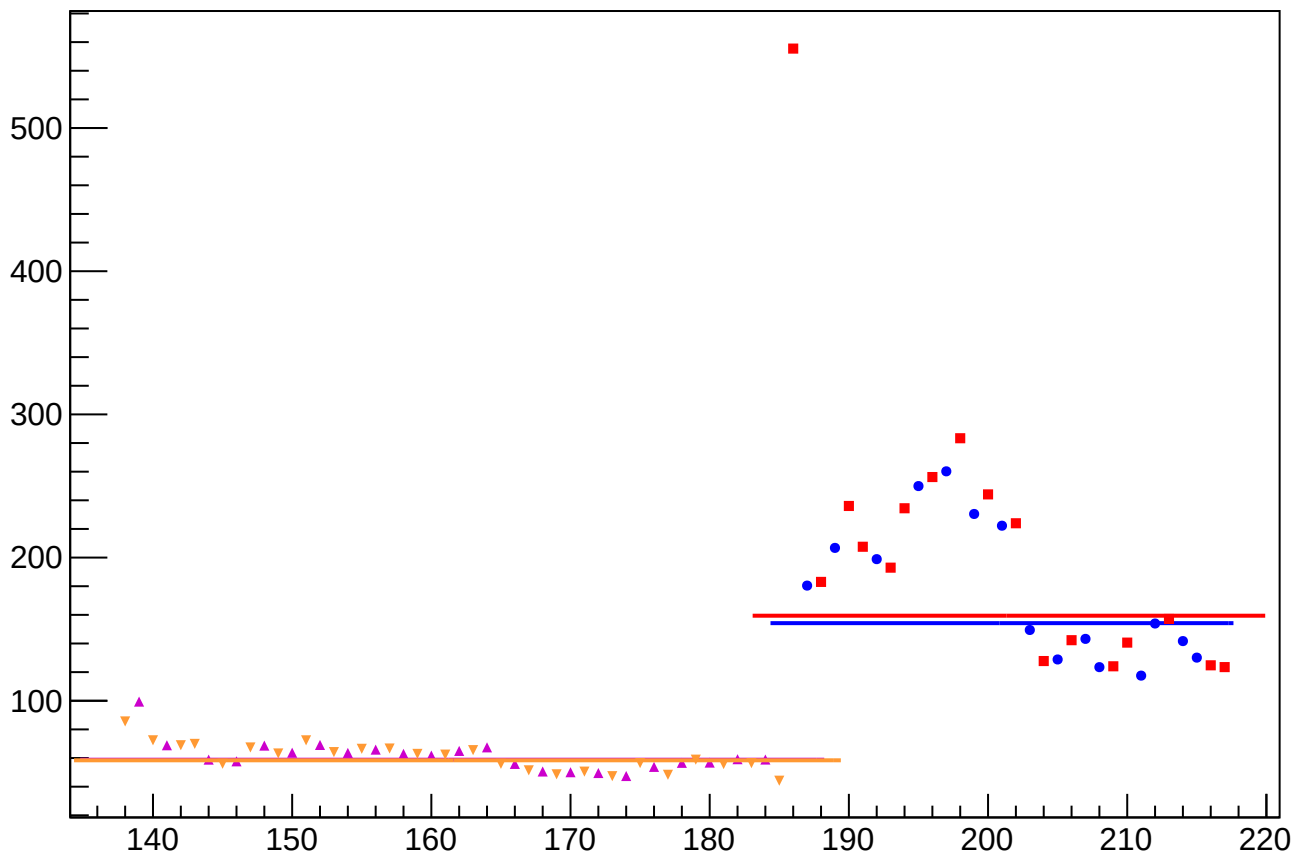
Right: -72.390 ± 34.805 $\chi^2/\text{NDF}: 37.4/31$

In: 61.787 ± 13.728 $\chi^2/\text{NDF}: 43.6/37$

Out: 35.118 ± 13.310 $\chi^2/\text{NDF}: 85.9/41$

All: 48.041 ± 9.556 $\chi^2/\text{NDF}: 131.5/79$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 154.209 $\pm$ 0.035 χ^2 /NDF: 1310762.9/14

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 159.407 $\pm$ 0.035 χ^2 /NDF: 2019881.5/16

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

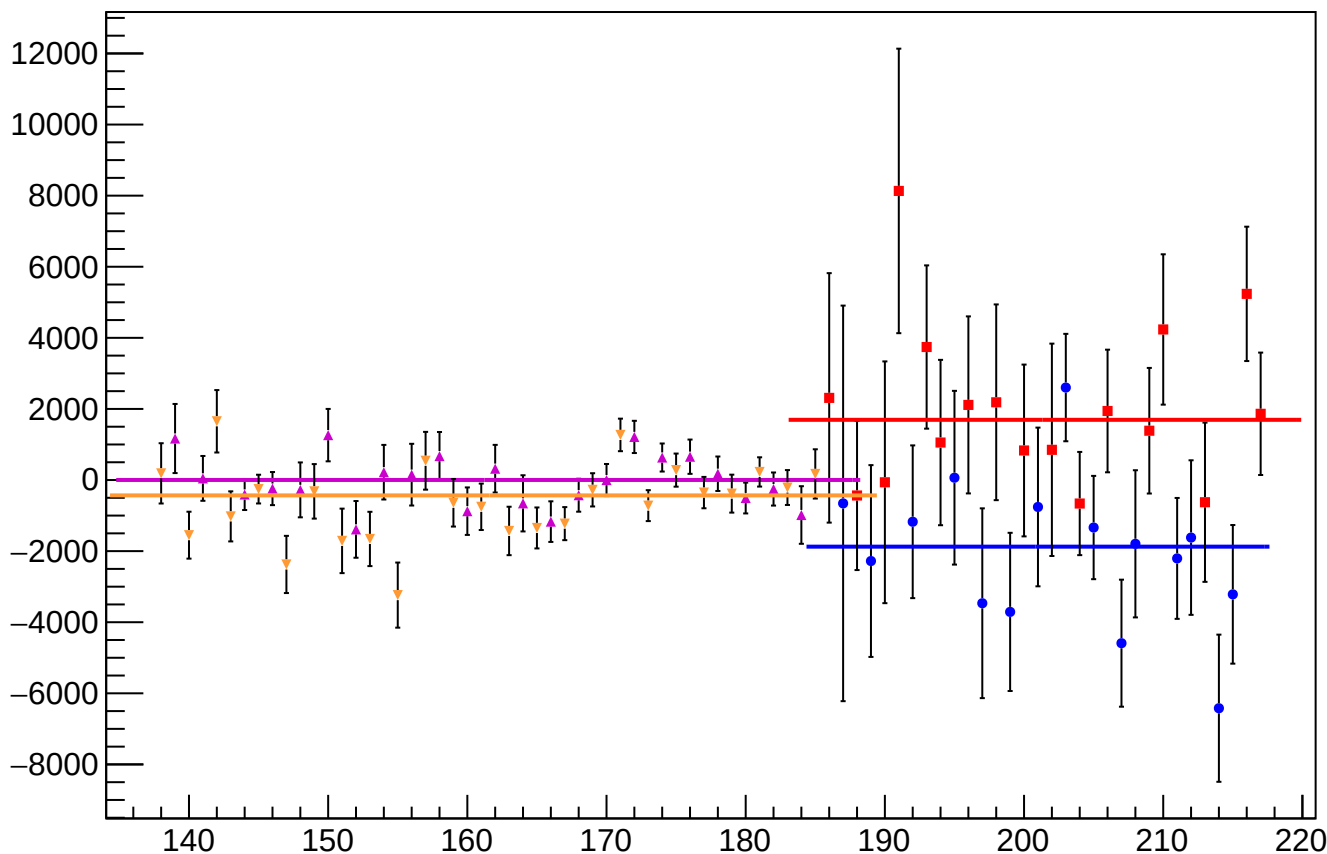
Right: 156.801 $\pm$ 0.025 χ^2 /NDF: 3341794.8/31

In: 66.276 $\pm$ 0.010 χ^2 /NDF: 8930150.3/37

Out: 65.789 $\pm$ 0.009 χ^2 /NDF: 10594917.9/41

All: 66.025 $\pm$ 0.007 χ^2 /NDF: 19526362.8/79

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1874.155+/-526.387 χ^2/NDF : 18.7/14

Left Out: -432.330+/-114.408 χ^2/NDF : 59.4/24

Right Out: 1693.920+/-528.541 χ^2/NDF : 13.8/16

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

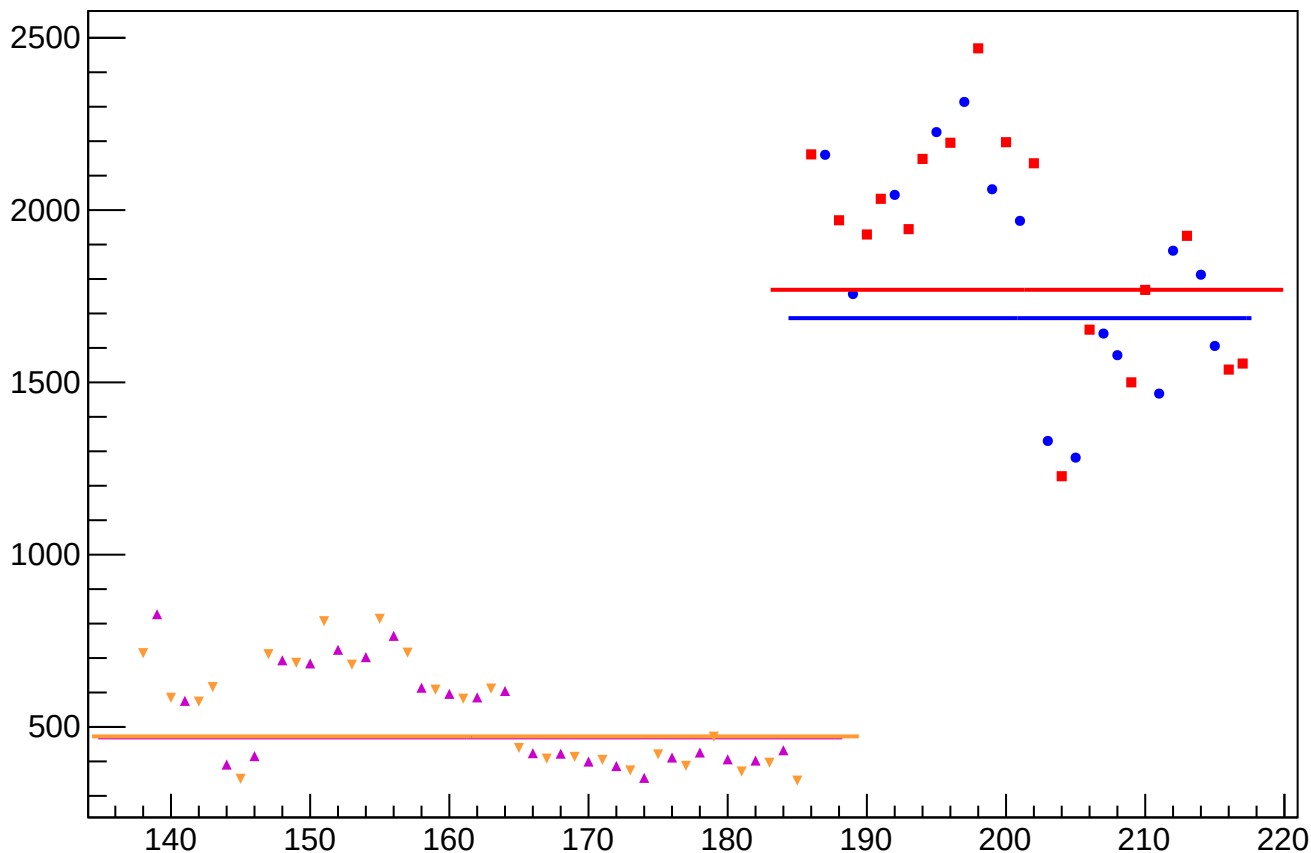
Right: -97.400+/-372.971 χ^2/NDF : 55.3/31

In: -85.715+/-113.709 χ^2/NDF : 63.1/37

Out: -337.164+/-111.818 χ^2/NDF : 88.6/41

All: -213.547+/-79.728 χ^2/NDF : 154.2/79

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1686.421+/-0.372 χ^2/NDF : 701351.2/14

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1768.678+/-0.374 χ^2/NDF : 806905.2/16

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

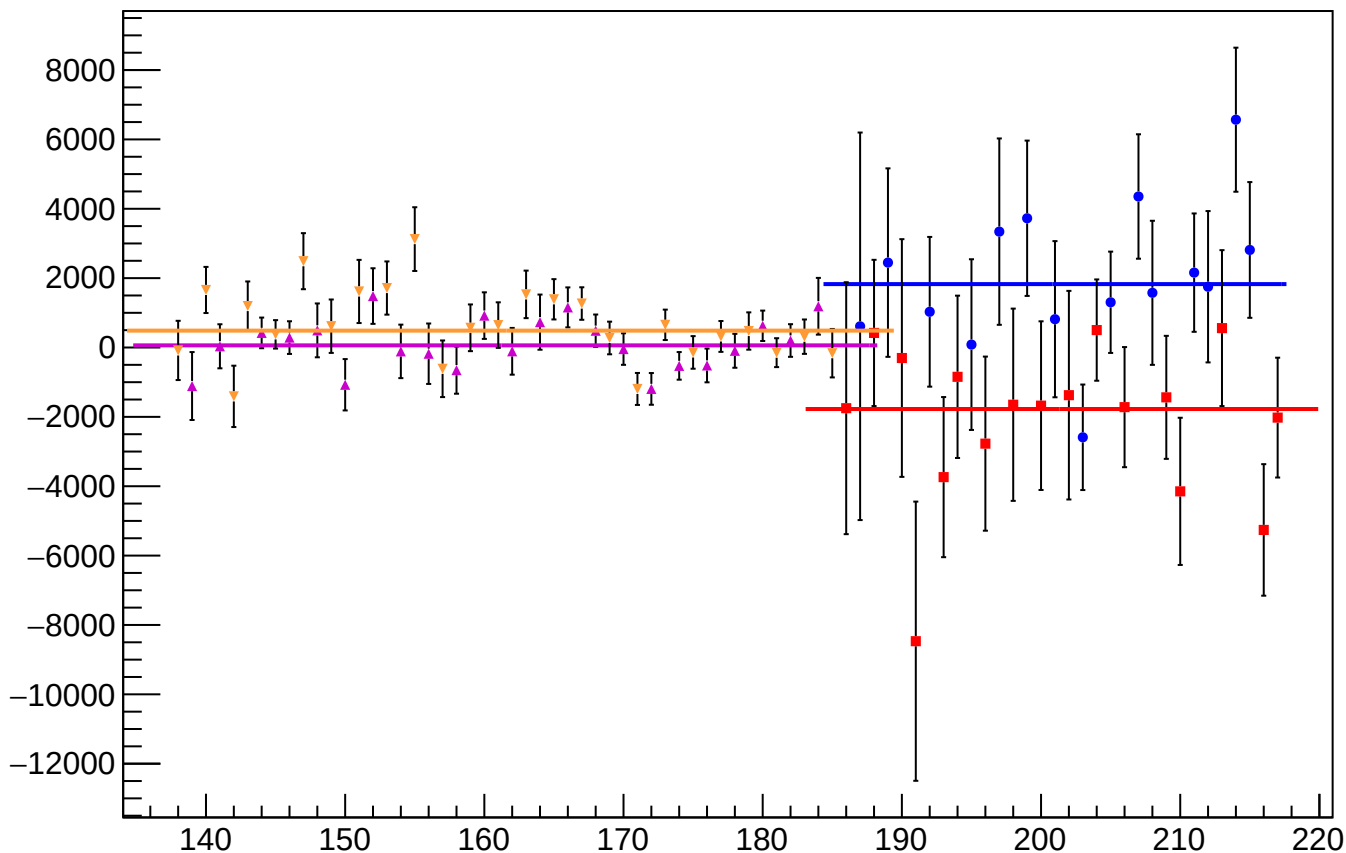
Right: 1727.382+/-0.264 χ^2/NDF : 1532576.1/31

In: 526.535+/-0.080 χ^2/NDF : 13004234.4/37

Out: 530.580+/-0.079 χ^2/NDF : 14803751.3/41

All: 528.591+/-0.056 χ^2/NDF : 27809272.3/79

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1828.033+/-529.091 χ^2/NDF : 18.0/14

Left Out: 486.645+/-115.346 χ^2/NDF : 56.0/24

Right Out: -1773.399+/-531.496 χ^2/NDF : 13.3/16

Left In: 61.775+/-117.449 χ^2/NDF : 31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

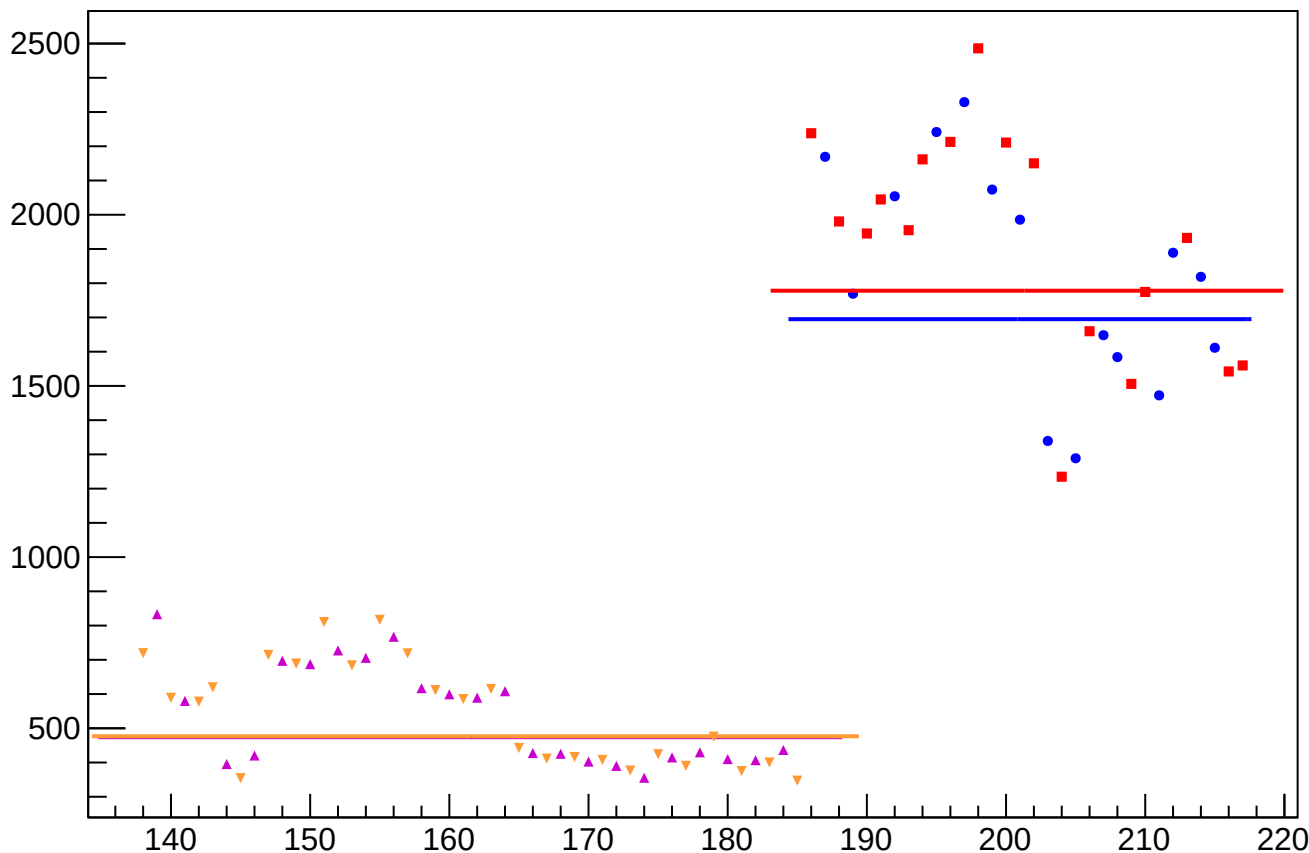
Right: 35.486+/-374.971 χ^2/NDF : 54.4/31

In: 144.722+/-114.658 χ^2/NDF : 59.8/37

Out: 384.989+/-112.722 χ^2/NDF : 86.6/41

All: 266.901+/-80.382 χ^2/NDF : 148.6/79

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1694.997 $\pm$ 0.374 χ^2 /NDF: 703421.5/14

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1778.104 $\pm$ 0.376 χ^2 /NDF: 819505.6/16

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

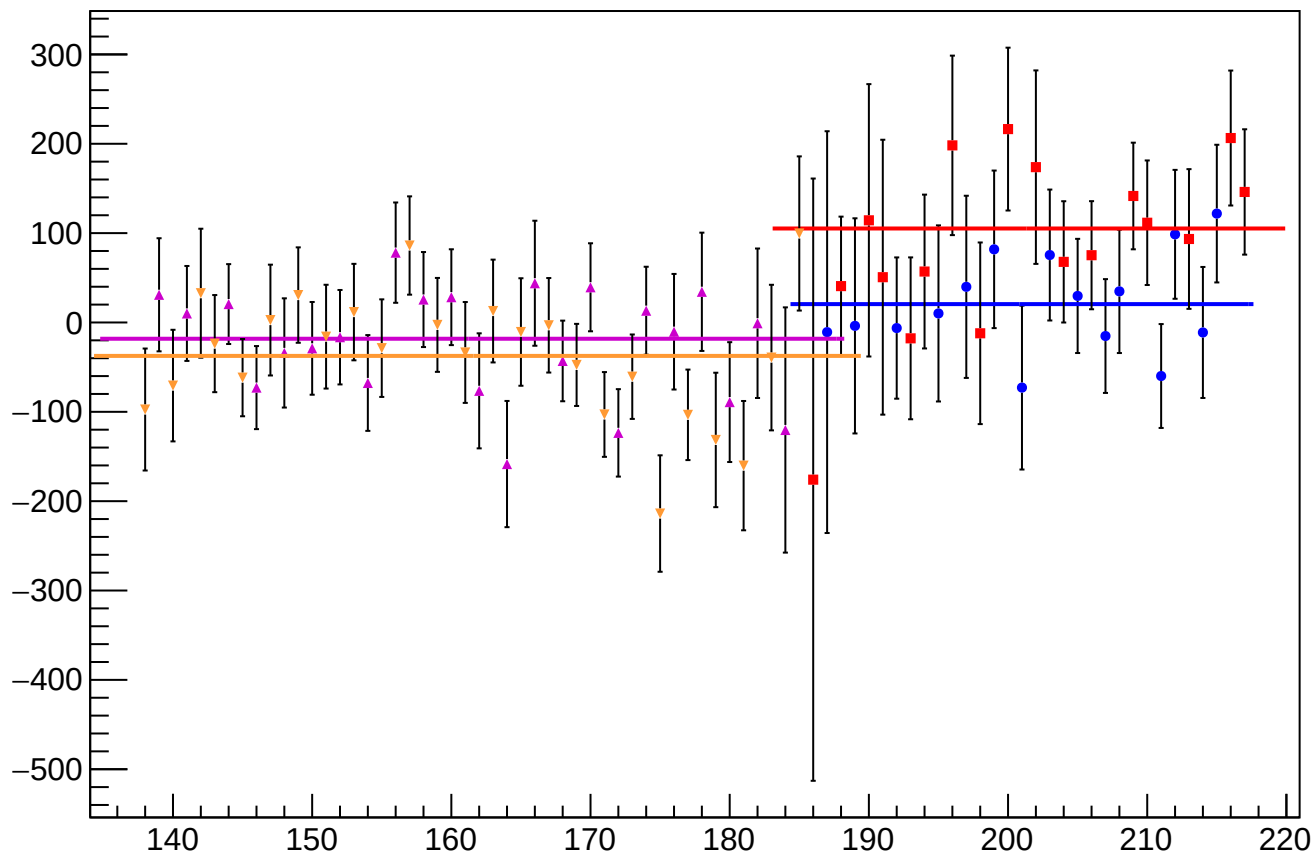
Right: 1736.362 $\pm$ 0.265 χ^2 /NDF: 1547487.5/31

In: 531.325 $\pm$ 0.081 χ^2 /NDF: 12941829.3/37

Out: 535.227 $\pm$ 0.080 χ^2 /NDF: 14744025.9/41

All: 533.309 $\pm$ 0.057 χ^2 /NDF: 27687033.5/79

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 20.549 $\pm$ 20.304 χ^2 /NDF: 7.7/14

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 105.178 $\pm$ 20.256 χ^2 /NDF: 10.8/16

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

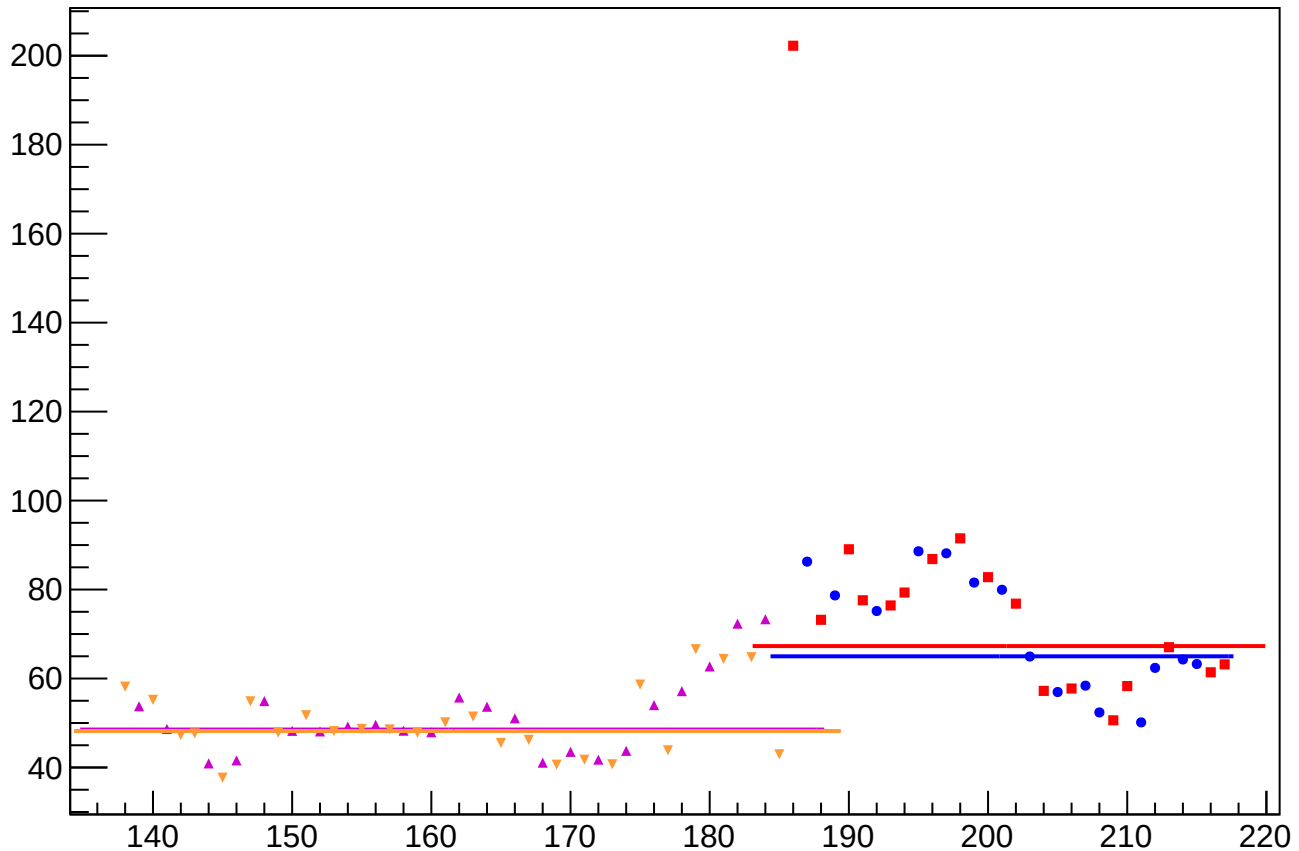
Right: 62.964 $\pm$ 14.340 χ^2 /NDF: 27.2/31

In: -8.439 $\pm$ 10.194 χ^2 /NDF:33.4/37

Out: -3.159 $\pm$ 9.928 χ^2 /NDF:79.0/41

All: -5.729 $\pm$ 7.112 χ^2 /NDF: 112.5/79

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.992 $\pm$ 0.014 χ^2 /NDF: 673000.1/14

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 67.291 $\pm$ 0.014 χ^2 /NDF: 1006598.9/16

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

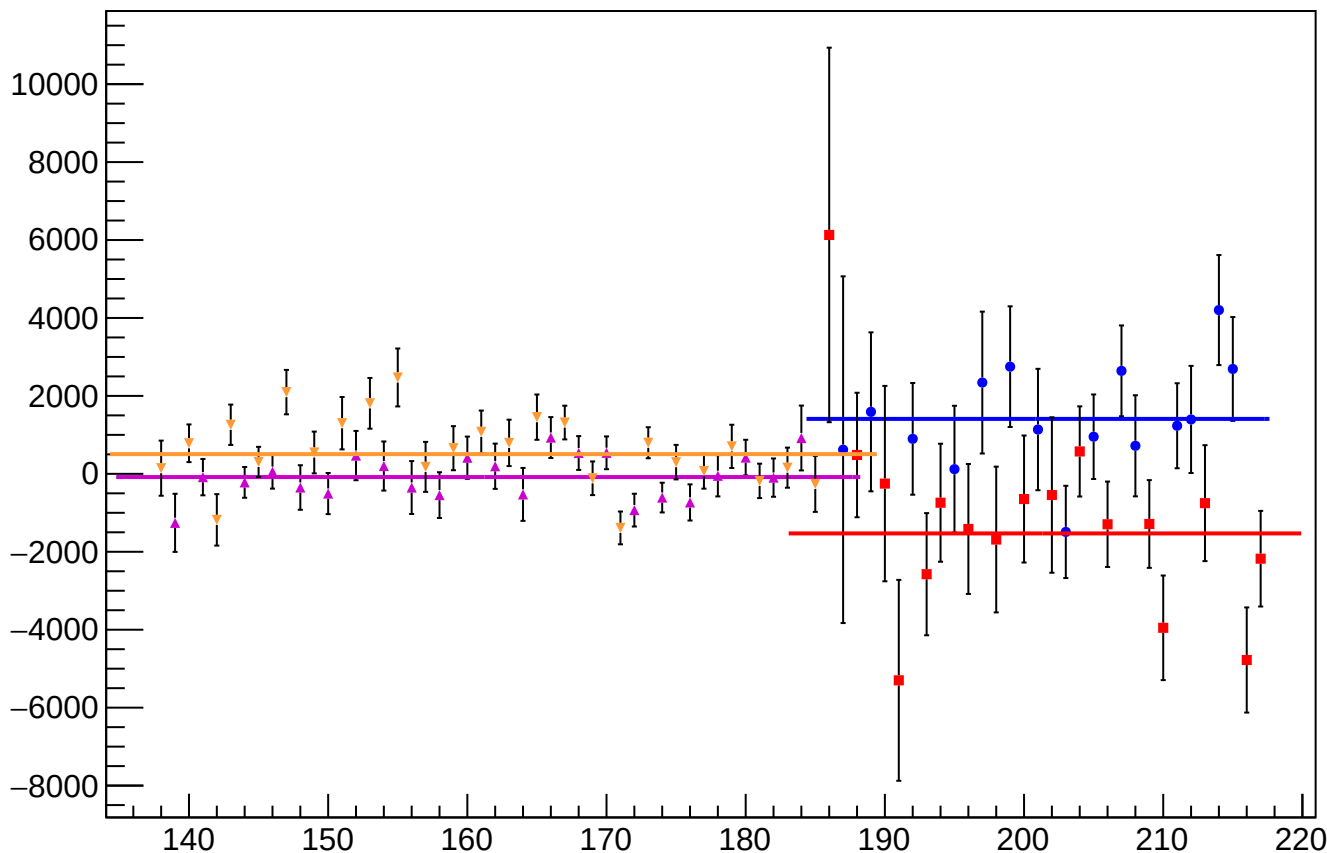
Right: 66.144 $\pm$ 0.010 χ^2 /NDF: 1692455.5/31

In: 52.677 $\pm$ 0.007 χ^2 /NDF: 2331997.4/37

Out: 52.786 $\pm$ 0.007 χ^2 /NDF: 3106711.7/41

All: 52.733 $\pm$ 0.005 χ^2 /NDF: 5438825.4/79

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1409.933 ± 362.375 χ^2/NDF : 14.3/14

Left Out: 506.205 ± 103.468 χ^2/NDF : 65.7/24

Right Out: -1528.878 ± 366.328 χ^2/NDF : 20.8/16

Left In: -82.421 ± 105.935 χ^2/NDF : 25.3/22

Left: 218.827 ± 74.020 χ^2/NDF : 106.9/47

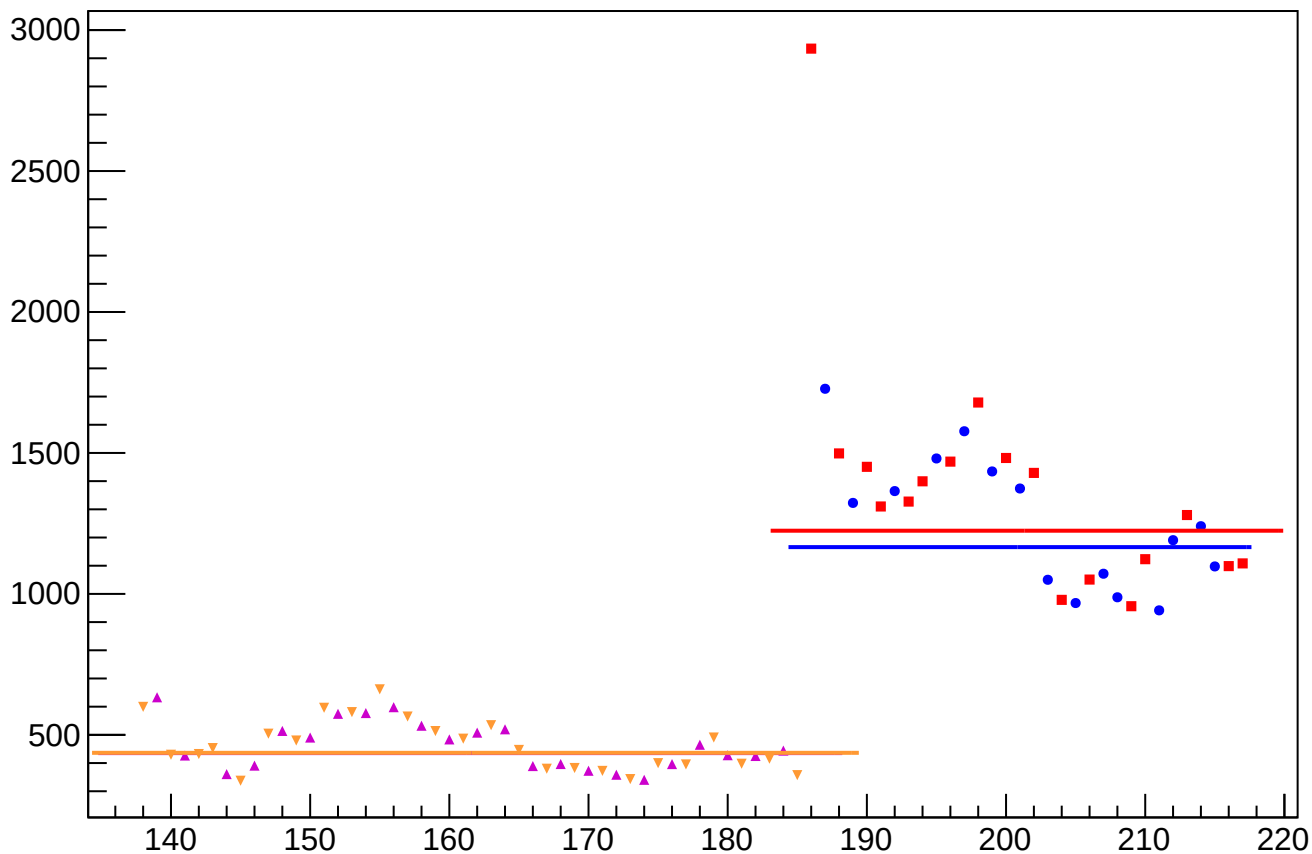
Right: -43.531 ± 257.624 χ^2/NDF : 67.6/31

In: 35.075 ± 101.679 χ^2/NDF : 55.3/37

Out: 355.850 ± 99.572 χ^2/NDF : 115.1/41

All: 198.821 ± 71.142 χ^2/NDF : 175.4/79

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1165.973+/-0.256 χ^2/NDF : 587469.4/14

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1224.169+/-0.259 χ^2/NDF : 901415.2/16

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

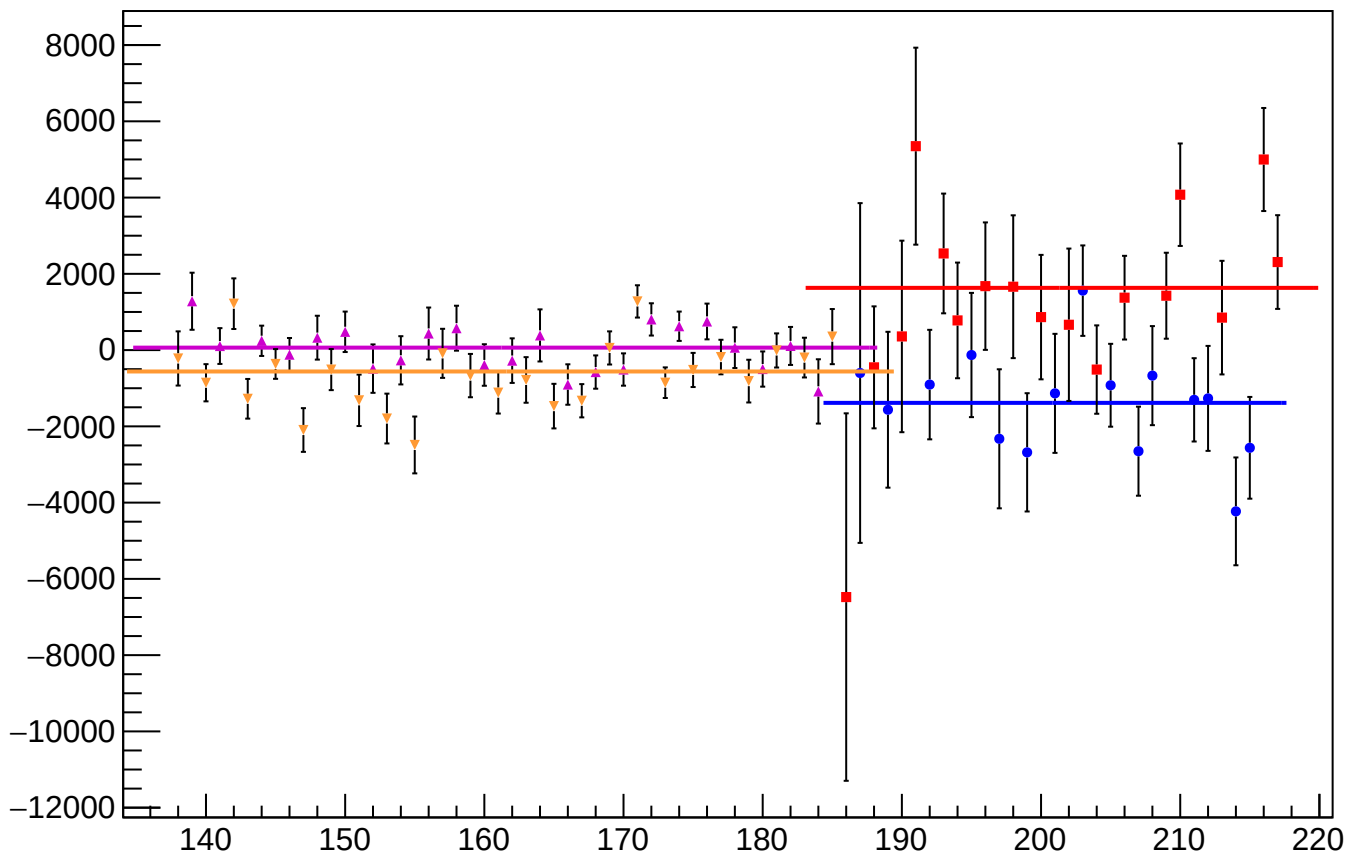
Right: 1194.755+/-0.182 χ^2/NDF : 1514396.0/31

In: 492.804+/-0.072 χ^2/NDF : 9106798.9/37

Out: 494.510+/-0.070 χ^2/NDF : 10648439.0/41

All: 493.675+/-0.050 χ^2/NDF : 19755525.3/79

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

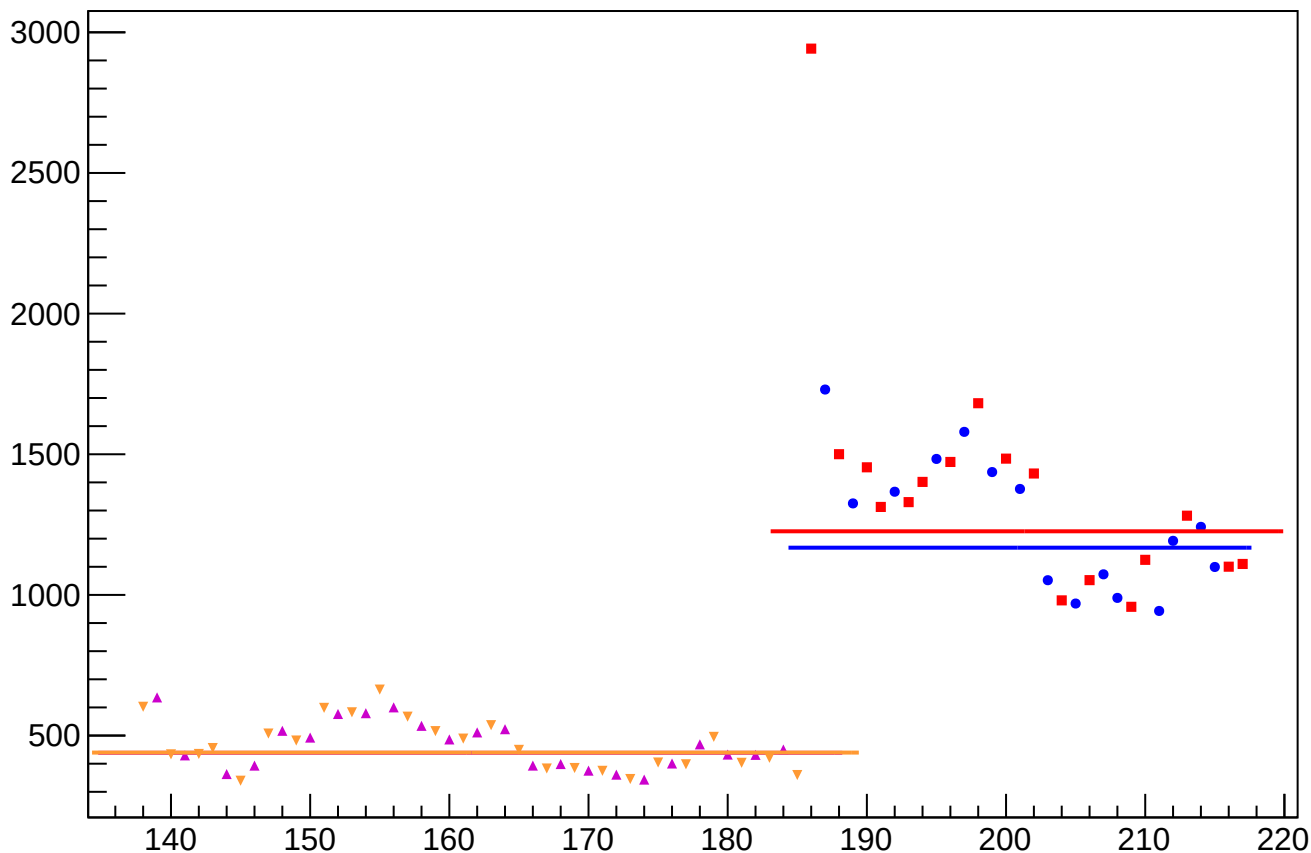
Right: 107.953 ± 258.049 $\chi^2/\text{NDF}: 70.1/31$

In: -50.621 ± 102.375 $\chi^2/\text{NDF}: 54.2/37$

Out: -397.007 ± 100.243 $\chi^2/\text{NDF}: 116.4/41$

All: -227.459 ± 71.625 $\chi^2/\text{NDF}: 176.4/79$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1167.909 $\pm$ 0.257 χ^2 /NDF: 587839.0/14

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24

Right Out: 1226.151 $\pm$ 0.259 χ^2 /NDF: 902094.5/16

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF:1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

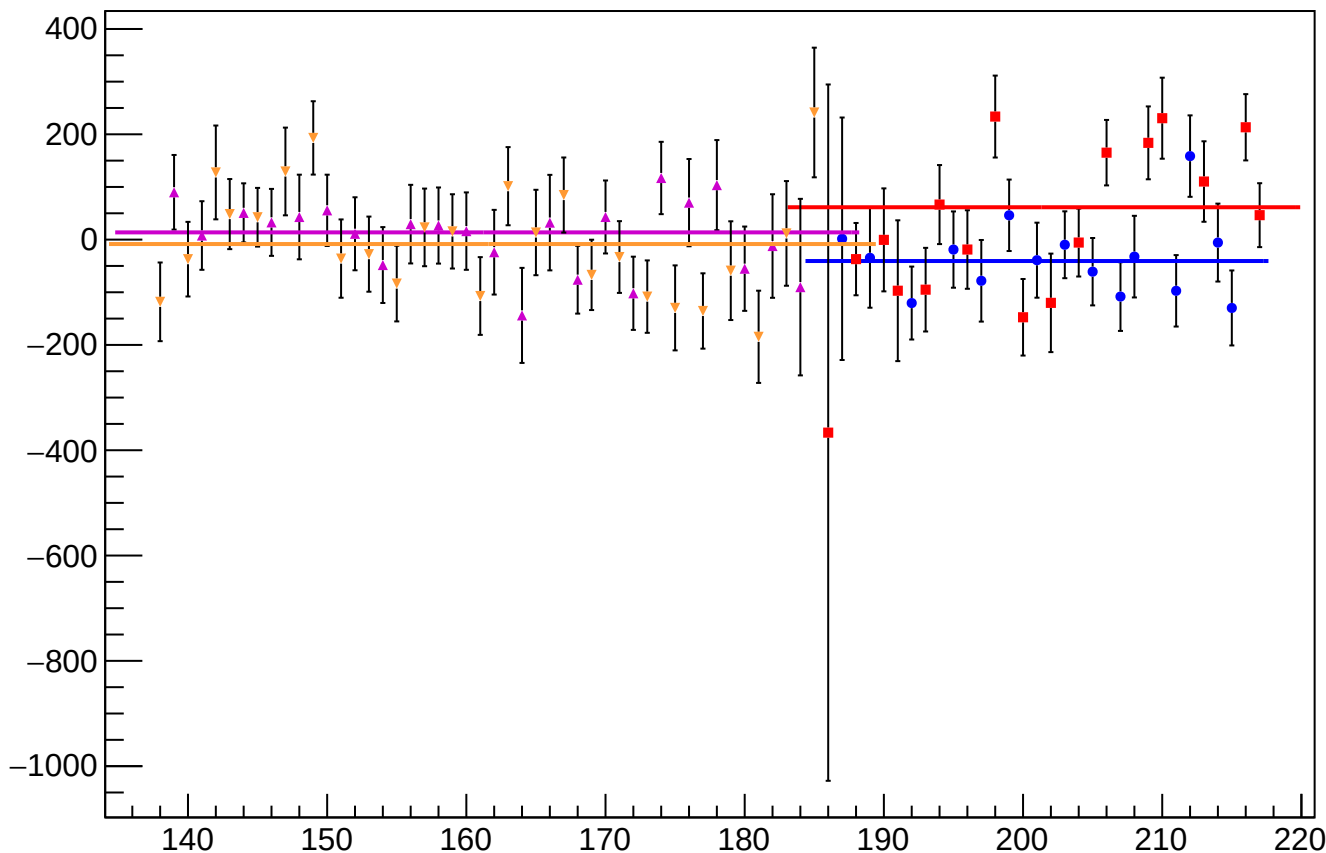
Right: 1196.715 $\pm$ 0.182 χ^2 /NDF: 1515401.0/31

In: 496.567 $\pm$ 0.072 χ^2 /NDF:9033752.4/37

Out: 498.238 $\pm$ 0.071 χ^2 /NDF:10571349.7/41

All: 497.420 $\pm$ 0.051 χ^2 /NDF: 19605374.1/79

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -40.663 ± 19.008 $\chi^2/\text{NDF}: 13.9/14$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: 61.463 ± 18.470 $\chi^2/\text{NDF}: 44.4/16$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

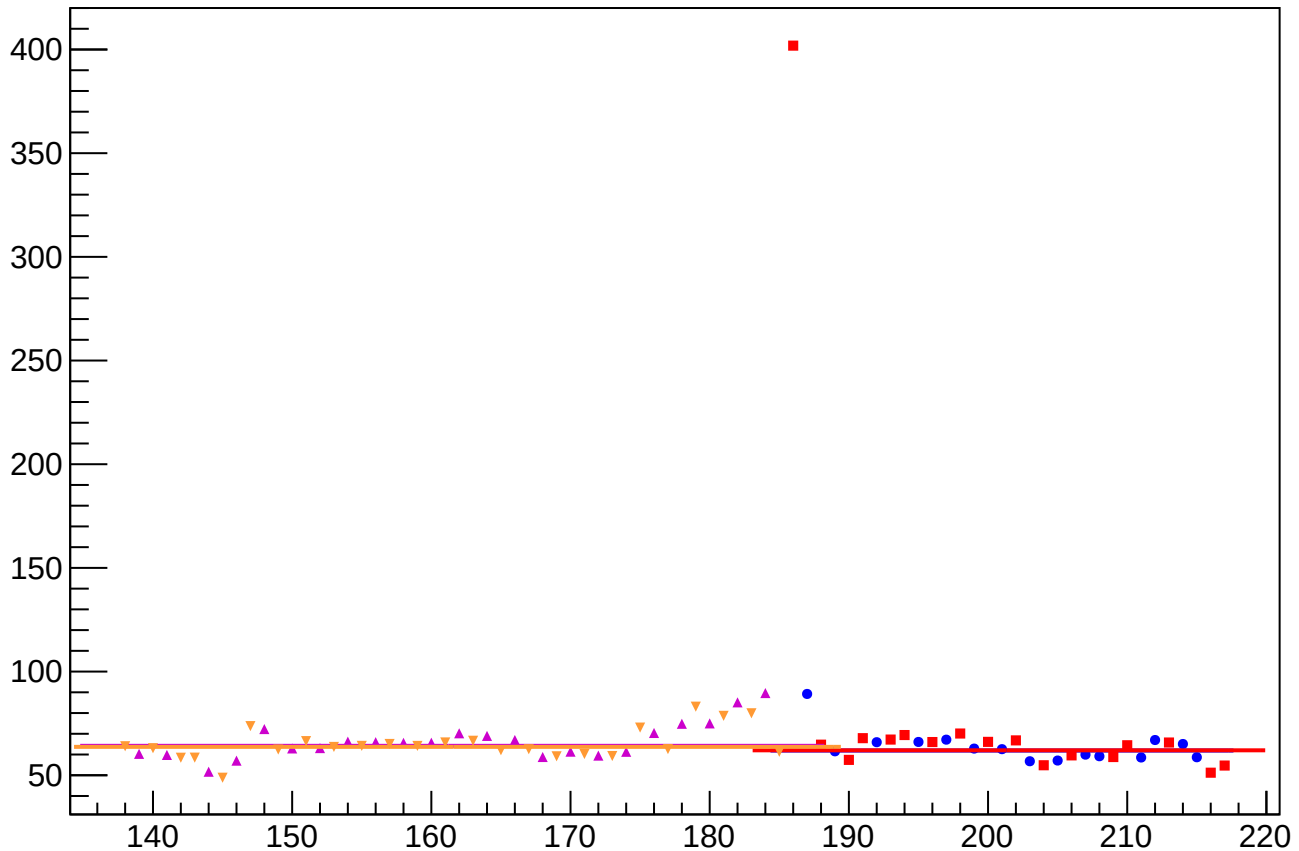
Right: 11.866 ± 13.246 $\chi^2/\text{NDF}: 73.1/31$

In: -7.961 ± 12.002 $\chi^2/\text{NDF}: 35.1/37$

Out: 19.211 ± 11.613 $\chi^2/\text{NDF}: 94.6/41$

All: 6.072 ± 8.346 $\chi^2/\text{NDF}: 132.3/79$

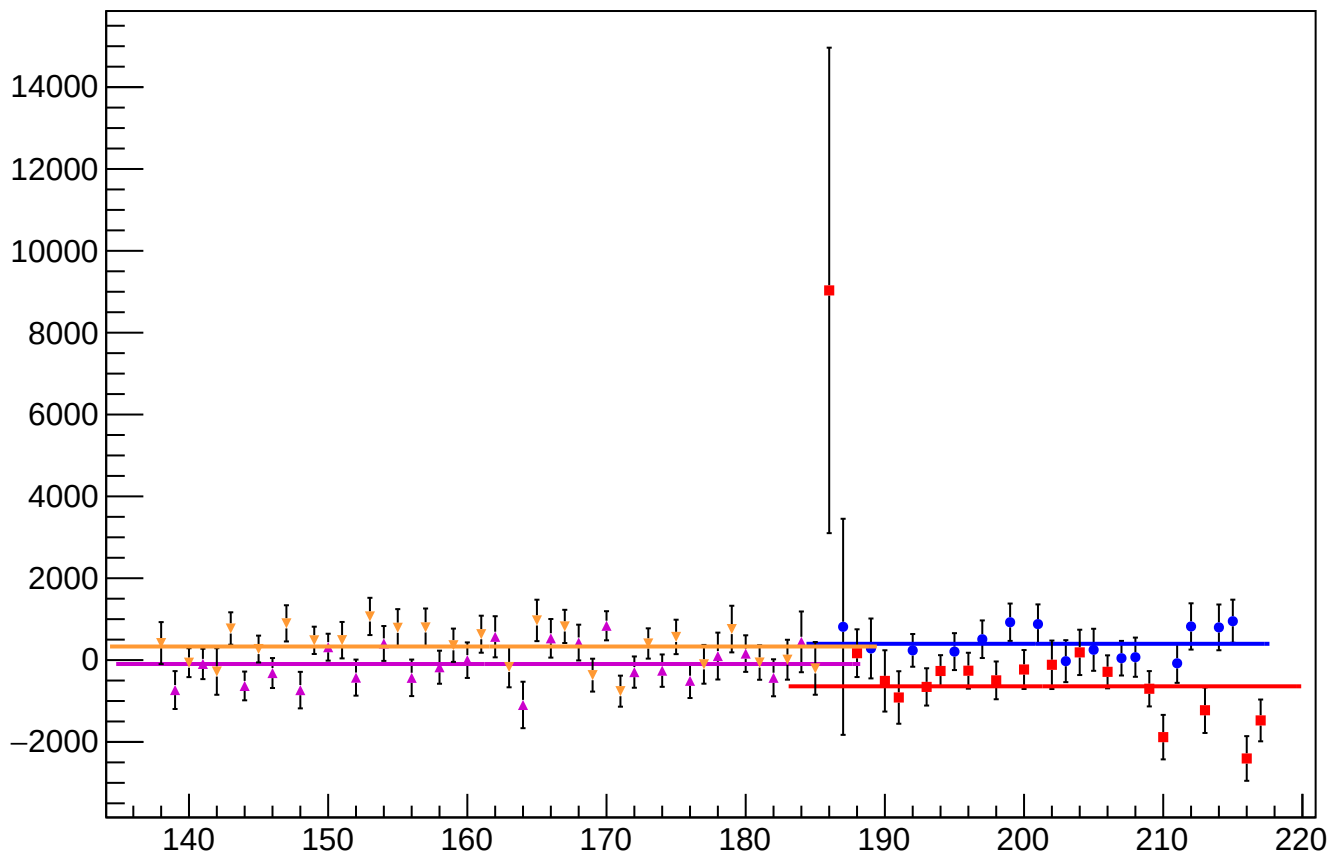
reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.915 $\pm$ 0.013 χ^2 /NDF: 101349.4/14
 Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24
 Right Out: 62.026 $\pm$ 0.013 χ^2 /NDF: 733933.8/16
 Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47
 Right: 61.972 $\pm$ 0.009 χ^2 /NDF: 835317.9/31
 In: 63.283 $\pm$ 0.008 χ^2 /NDF: 548226.9/37
 Out: 63.036 $\pm$ 0.008 χ^2 /NDF: 1192261.3/41
 All: 63.155 $\pm$ 0.006 χ^2 /NDF: 1740925.3/79

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 397.869 ± 130.300 χ^2/NDF : 7.9/14

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -641.067 ± 124.548 χ^2/NDF : 30.6/16

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

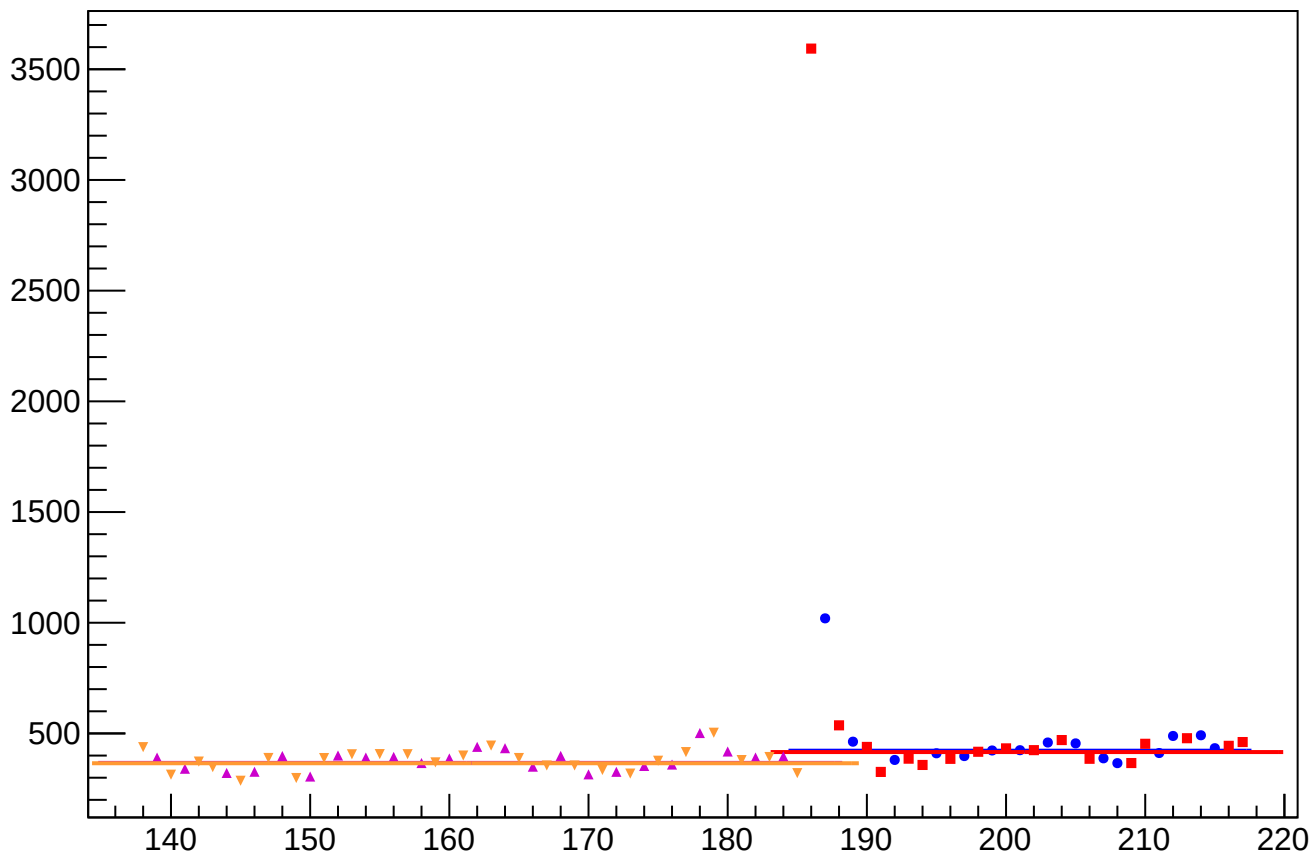
Right: -145.037 ± 90.034 χ^2/NDF : 71.7/31

In: 60.344 ± 73.298 χ^2/NDF : 46.4/37

Out: 17.315 ± 70.808 χ^2/NDF : 101.8/41

All: 38.086 ± 50.926 χ^2/NDF : 148.3/79

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 421.987+/-0.092 χ^2/NDF : 257625.9/14

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 415.884+/-0.088 χ^2/NDF : 880134.7/16

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

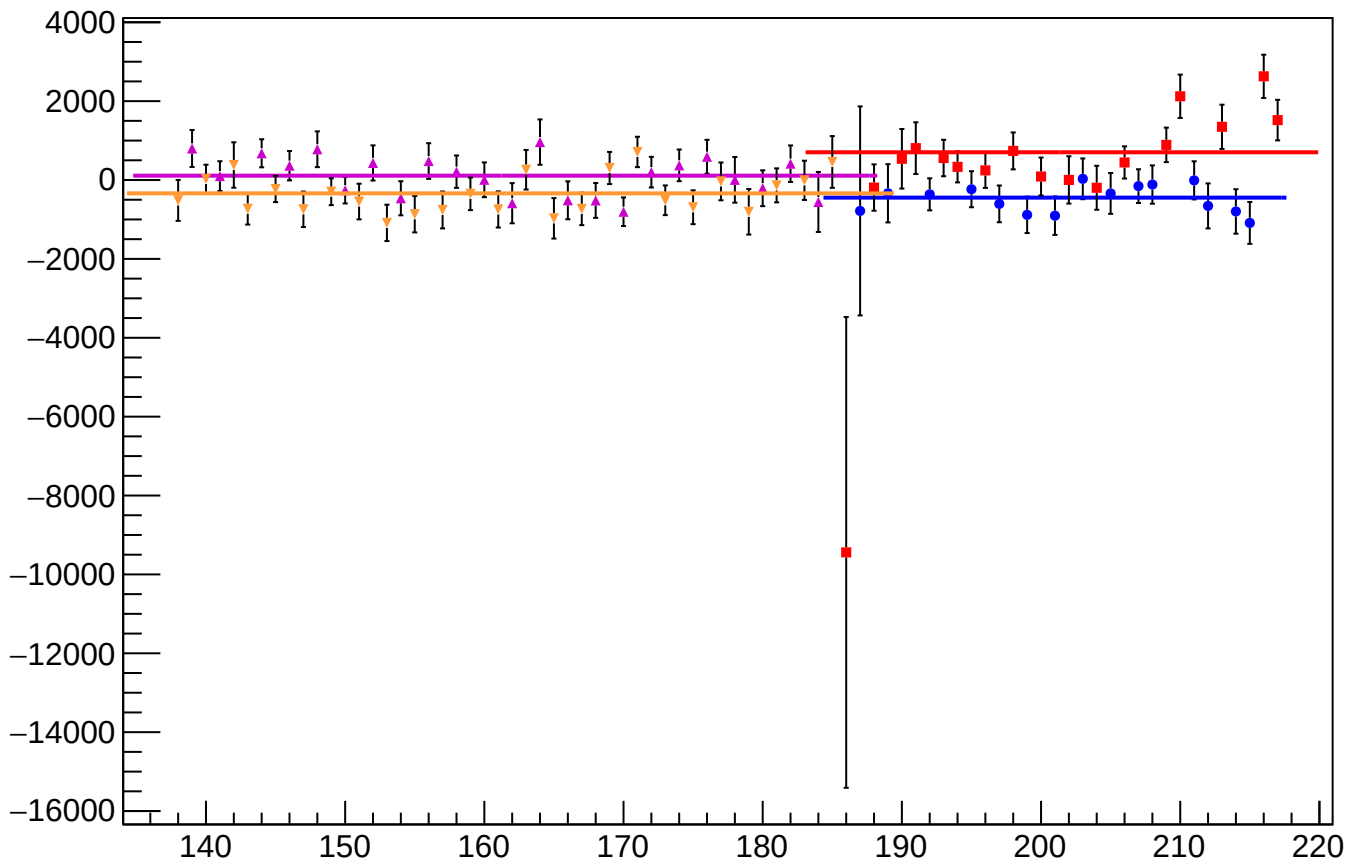
Right: 418.798+/-0.064 χ^2/NDF : 1140052.9/31

In: 384.349+/-0.052 χ^2/NDF : 979836.5/37

Out: 381.687+/-0.050 χ^2/NDF : 1721375.8/41

All: 382.972+/-0.036 χ^2/NDF : 2702576.7/79

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -446.415 ± 131.794 χ^2/NDF : 6.8/14

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 703.752 ± 126.107 χ^2/NDF : 36.3/16

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

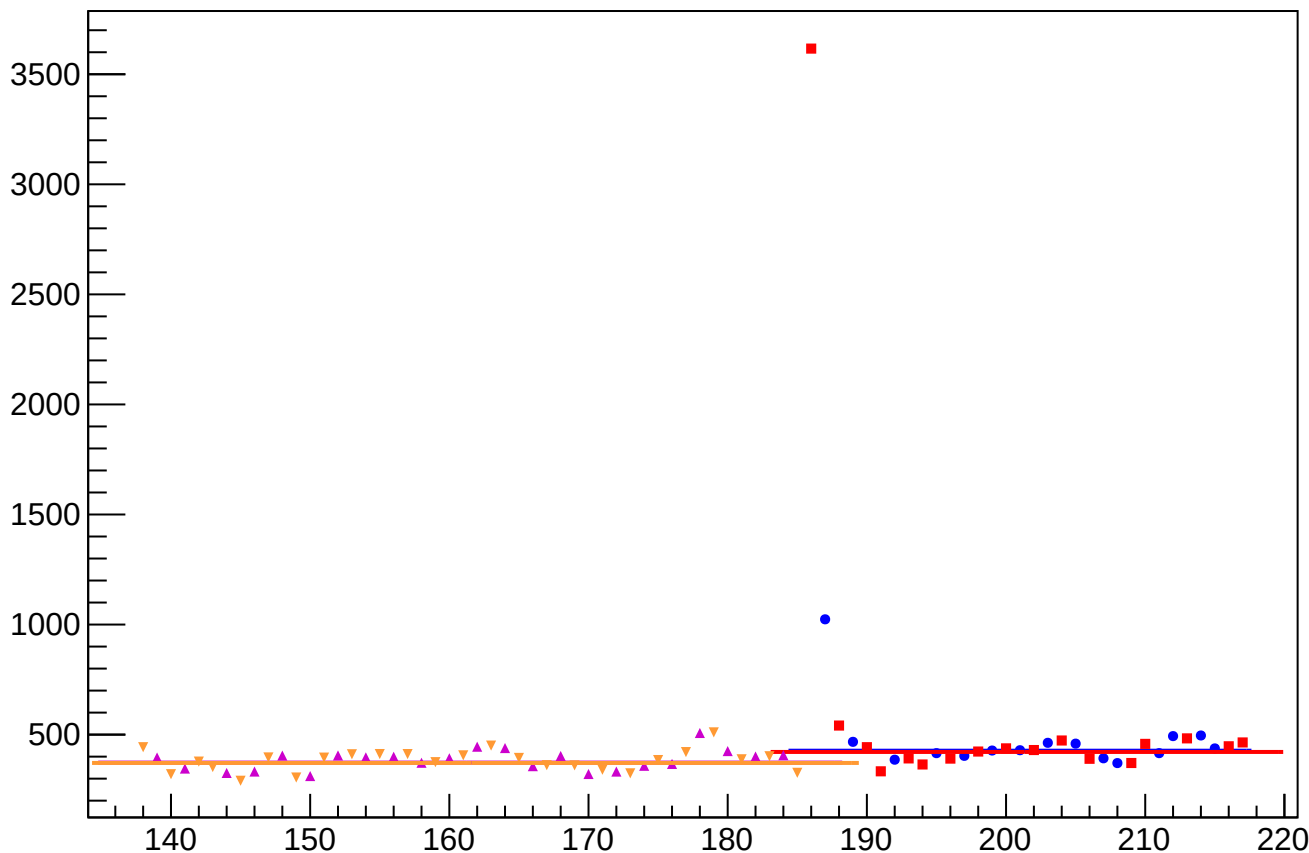
Right: 154.018 ± 91.115 χ^2/NDF : 82.9/31

In: -66.947 ± 74.371 χ^2/NDF : 48.2/37

Out: -0.070 ± 71.862 χ^2/NDF : 110.7/41

All: -32.361 ± 51.678 χ^2/NDF : 159.3/79

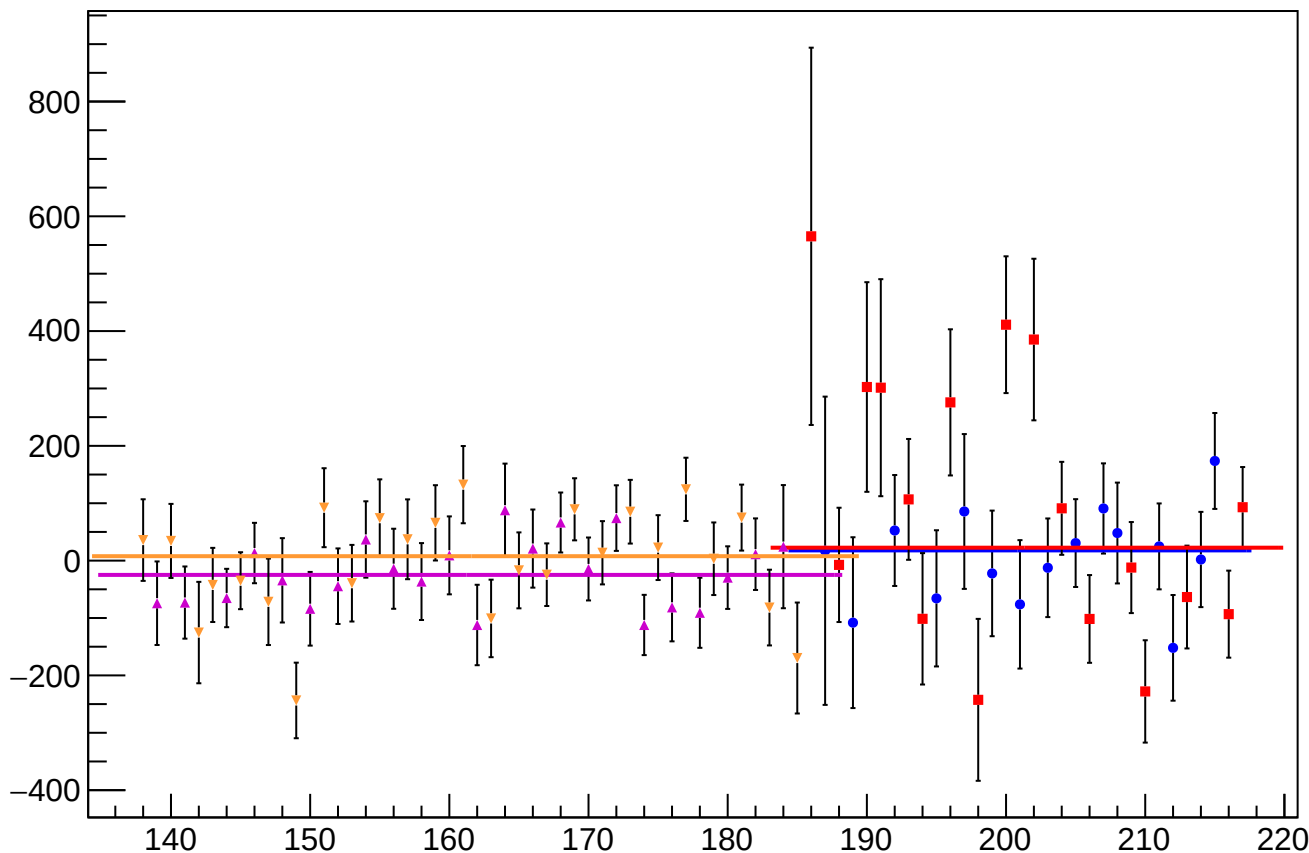
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 426.948 $\pm$ 0.093 χ^2 /NDF: 249955.7/14
 Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF:604070.6/24
 Right Out: 421.297 $\pm$ 0.089 χ^2 /NDF: 862724.1/16
 Left In: 372.938 $\pm$ 0.064 χ^2 /NDF:467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47
 Right: 423.997 $\pm$ 0.064 χ^2 /NDF: 1114599.3/31
 In: 390.136 $\pm$ 0.053 χ^2 /NDF:946222.8/37
 Out: 387.573 $\pm$ 0.051 χ^2 /NDF:1678600.1/41
 All: 388.811 $\pm$ 0.037 χ^2 /NDF: 2626051.3/79

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 17.827 ± 24.710 $\chi^2/\text{NDF}: 10.5/14$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 22.538 ± 24.412 $\chi^2/\text{NDF}: 49.6/16$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

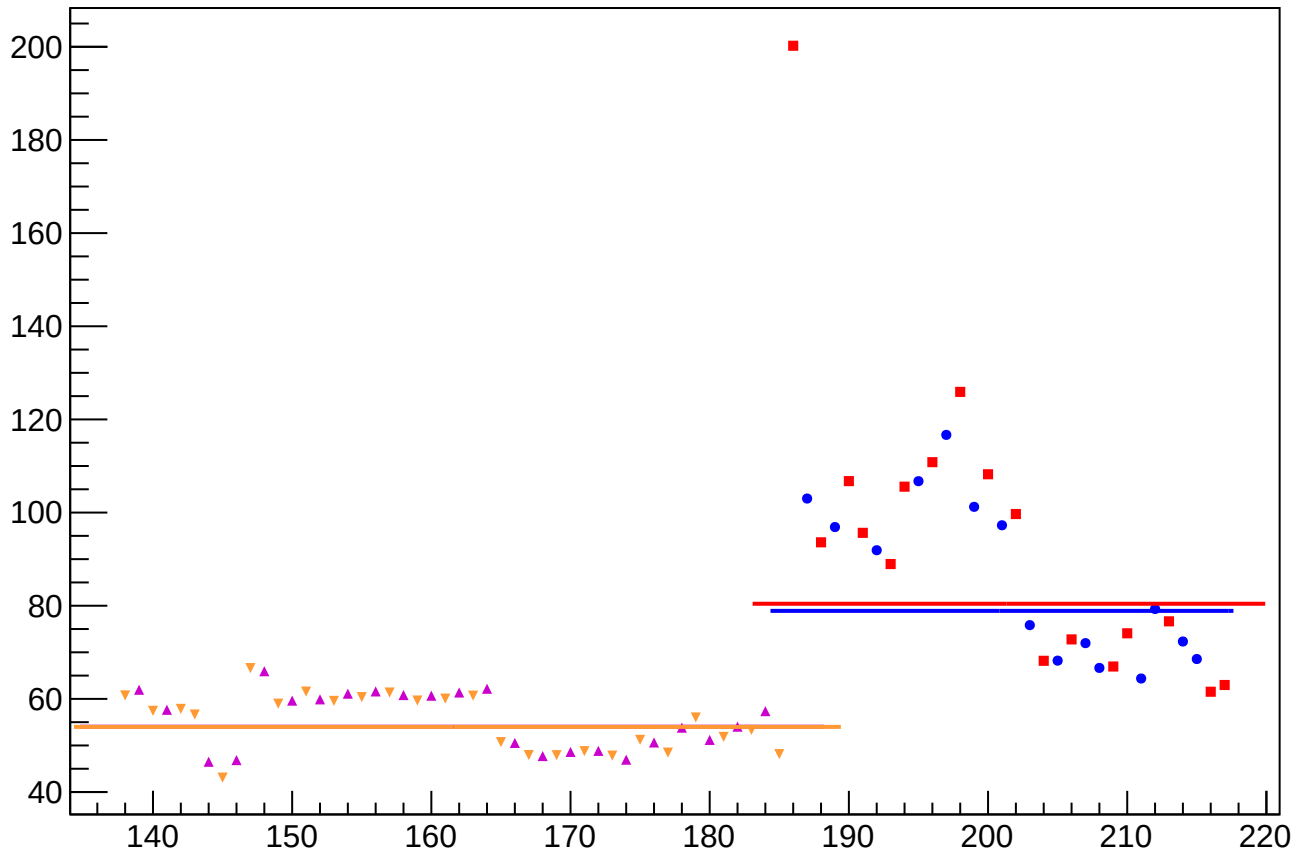
Right: 20.211 ± 17.366 $\chi^2/\text{NDF}: 60.1/31$

In: -15.595 ± 11.525 $\chi^2/\text{NDF}: 32.6/37$

Out: 10.862 ± 11.236 $\chi^2/\text{NDF}: 95.3/41$

All: -2.031 ± 8.045 $\chi^2/\text{NDF}: 130.6/79$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 78.896 $\pm$ 0.017 χ^2 /NDF: 700345.4/14

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 80.426 $\pm$ 0.017 χ^2 /NDF: 1318271.5/16

Left In: 54.028 $\pm$ 0.009 χ^2 /NDF: 443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47

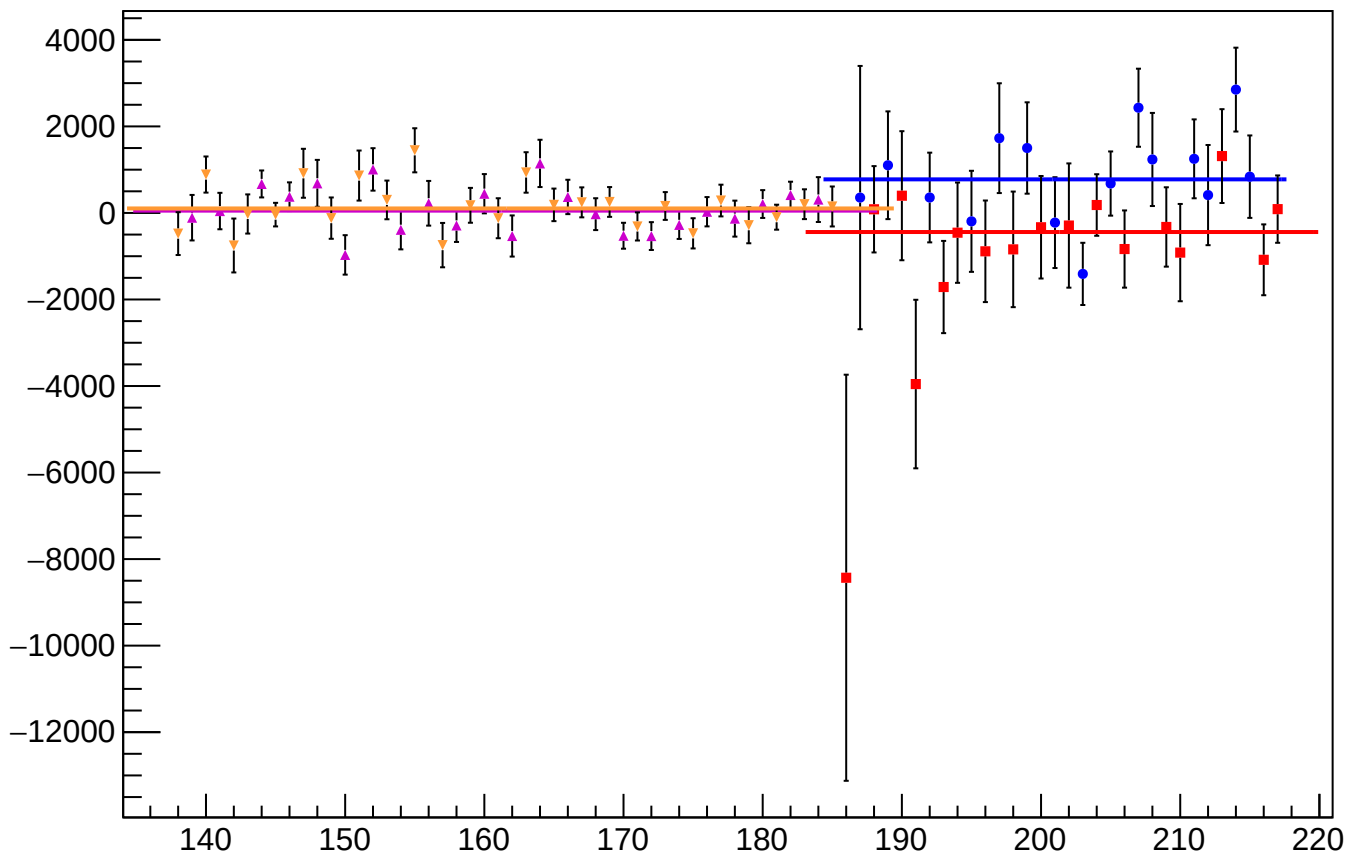
Right: 79.670 $\pm$ 0.012 χ^2 /NDF: 2022494.9/31

In: 59.438 $\pm$ 0.008 χ^2 /NDF: 2729312.9/37

Out: 59.585 $\pm$ 0.008 χ^2 /NDF: 3626687.3/41

All: 59.513 $\pm$ 0.006 χ^2 /NDF: 6356167.7/79

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 776.107 $\pm$ 259.906 χ^2 /NDF: 20.6/14

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -440.887 $\pm$ 257.528 χ^2 /NDF: 13.3/16

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

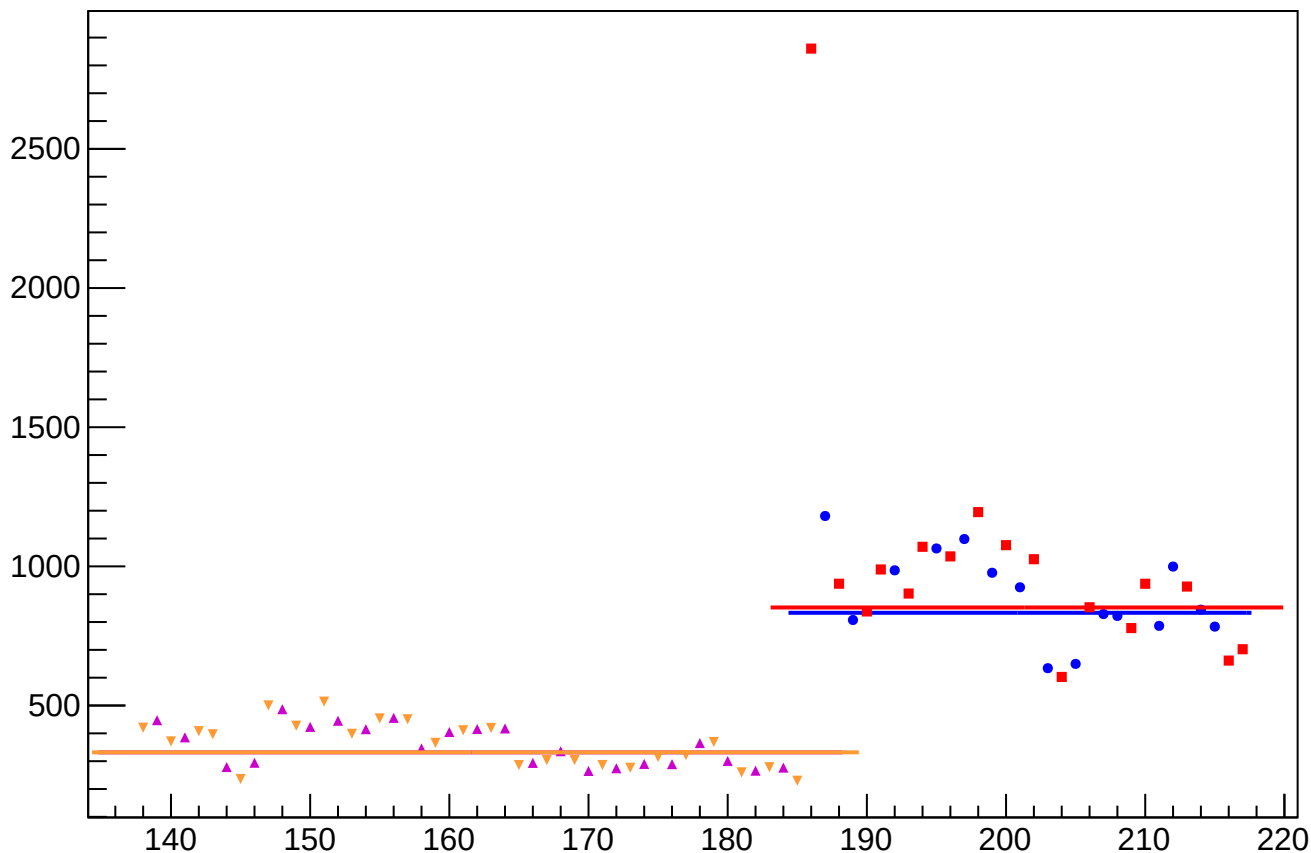
Right: 162.015 $\pm$ 182.935 χ^2 /NDF: 45.0/31

In: 117.754 $\pm$ 77.506 χ^2 /NDF:61.8/37

Out: 56.548 $\pm$ 75.827 χ^2 /NDF:48.3/41

All: 86.481 $\pm$ 54.202 χ^2 /NDF: 110.4/79

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 833.174+/-0.184 χ^2/NDF : 616725.6/14

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 852.319+/-0.182 χ^2/NDF : 1210697.9/16

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

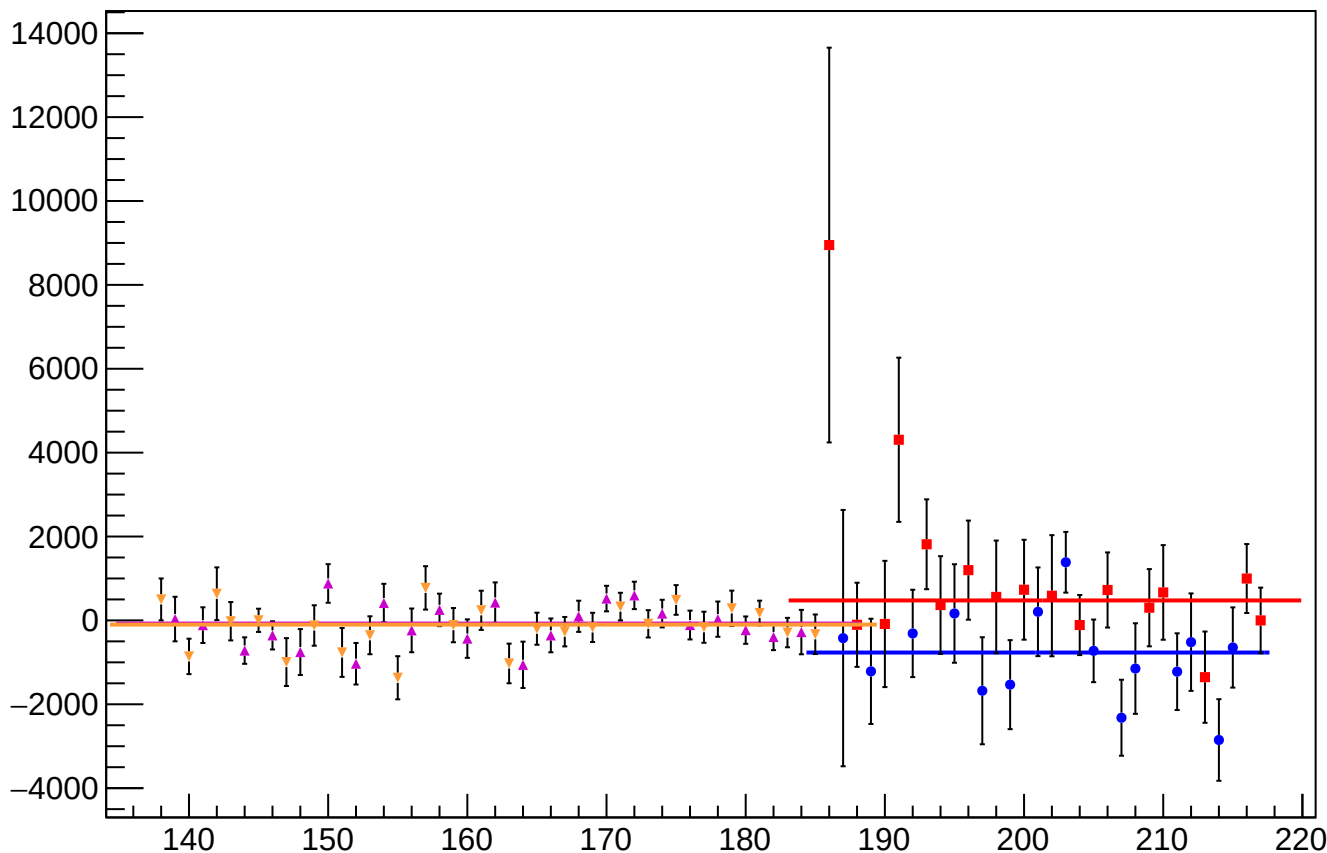
Right: 842.835+/-0.129 χ^2/NDF : 1832899.3/31

In: 376.264+/-0.055 χ^2/NDF : 8704220.1/37

Out: 376.900+/-0.054 χ^2/NDF : 10385557.8/41

All: 376.589+/-0.038 χ^2/NDF : 19089846.6/79

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -766.361 ± 261.274 χ^2/NDF : 19.6/14

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 475.952 ± 258.827 χ^2/NDF : 14.0/16

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

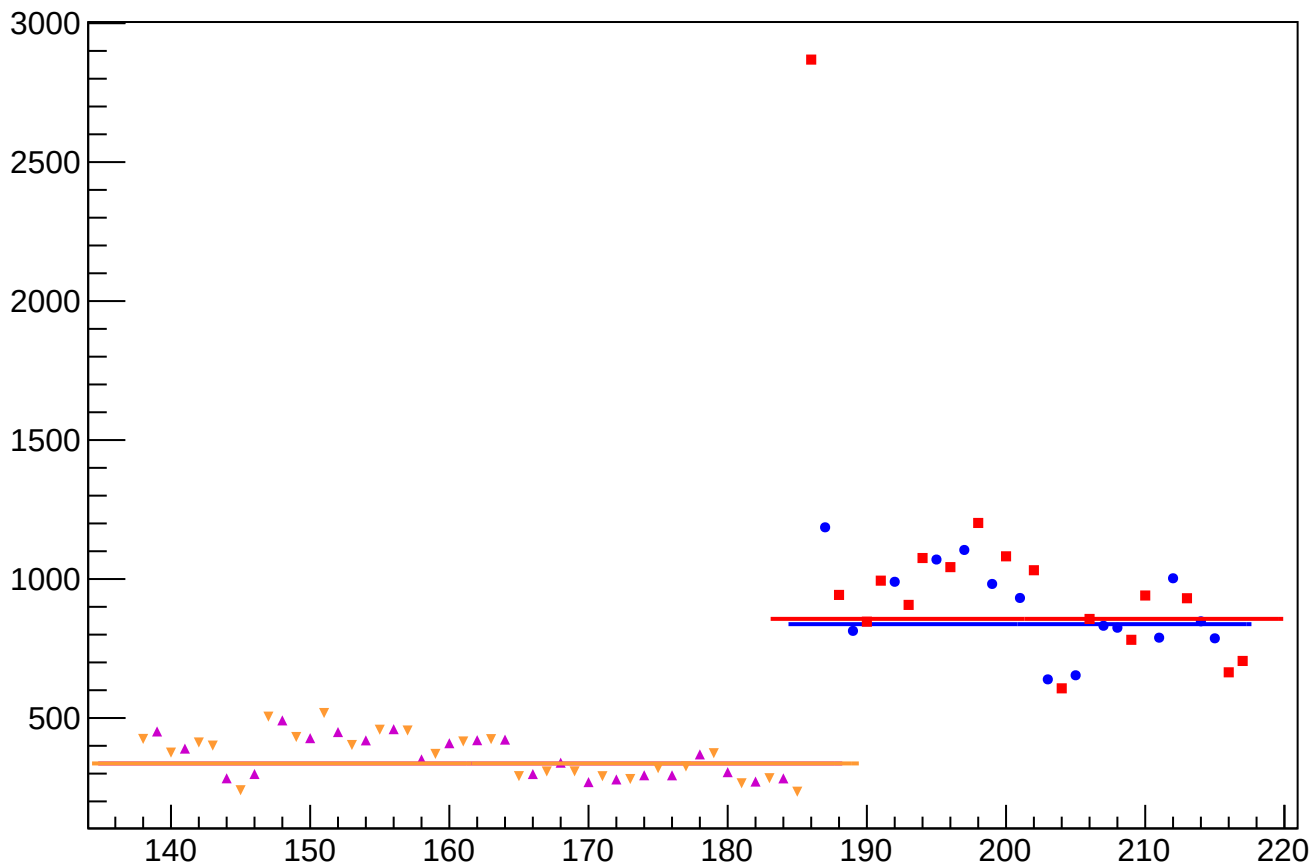
Right: -139.360 ± 183.878 χ^2/NDF : 45.0/31

In: -137.959 ± 78.514 χ^2/NDF : 58.1/37

Out: -49.088 ± 76.805 χ^2/NDF : 49.1/41

All: -92.546 ± 54.904 χ^2/NDF : 107.9/79

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 837.675+/-0.185 χ^2/NDF : 612748.7/14

Left Out: 336.557+/-0.057 χ^2/NDF : 1665919.4/24

Right Out: 856.685+/-0.183 χ^2/NDF : 1209552.8/16

Left In: 336.439+/-0.058 χ^2/NDF : 1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

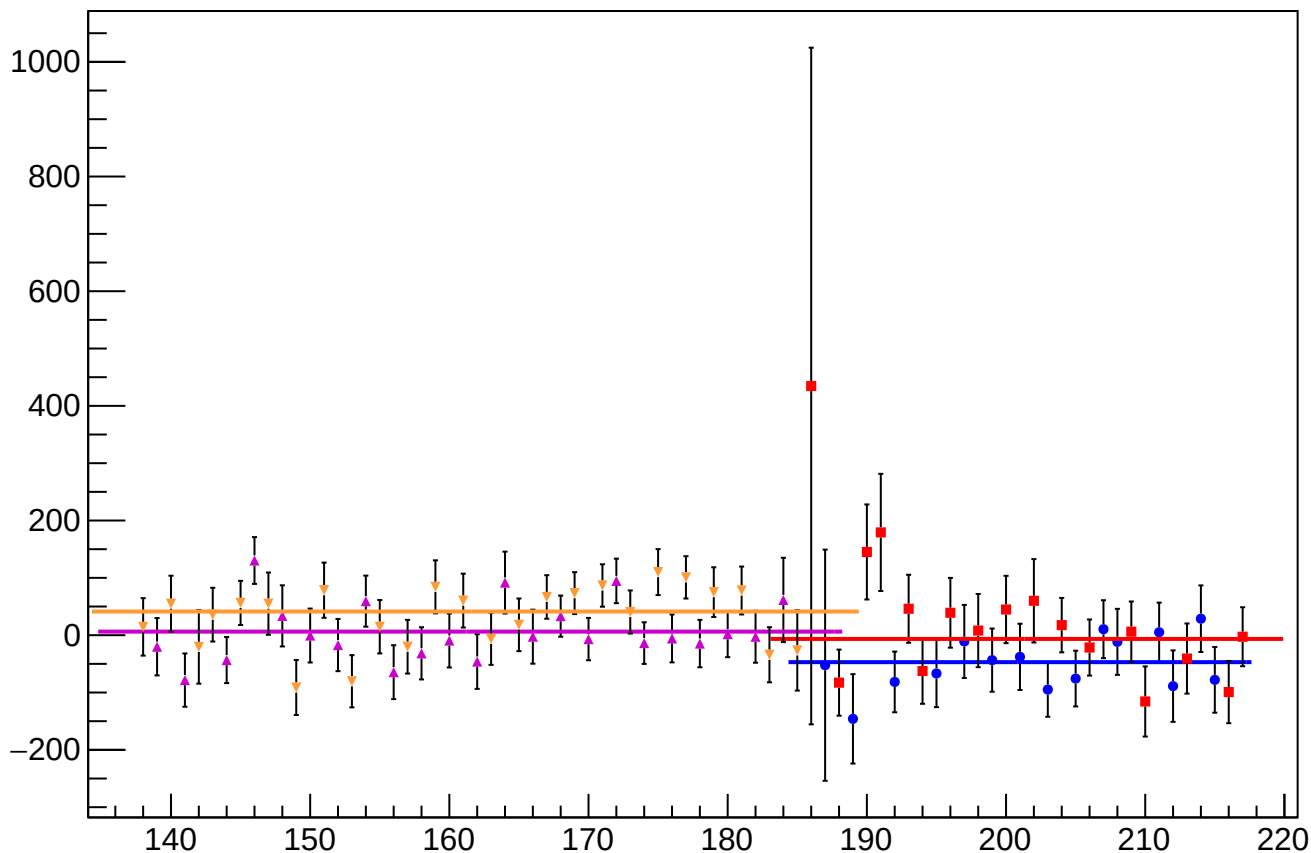
Right: 847.269+/-0.130 χ^2/NDF : 1827644.7/31

In: 381.702+/-0.056 χ^2/NDF : 8577858.6/37

Out: 382.358+/-0.054 χ^2/NDF : 10240872.6/41

All: 382.037+/-0.039 χ^2/NDF : 18818802.4/79

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -47.024 ± 14.900 χ^2/NDF : 9.0/14

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: -6.520 ± 14.735 χ^2/NDF : 19.8/16

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

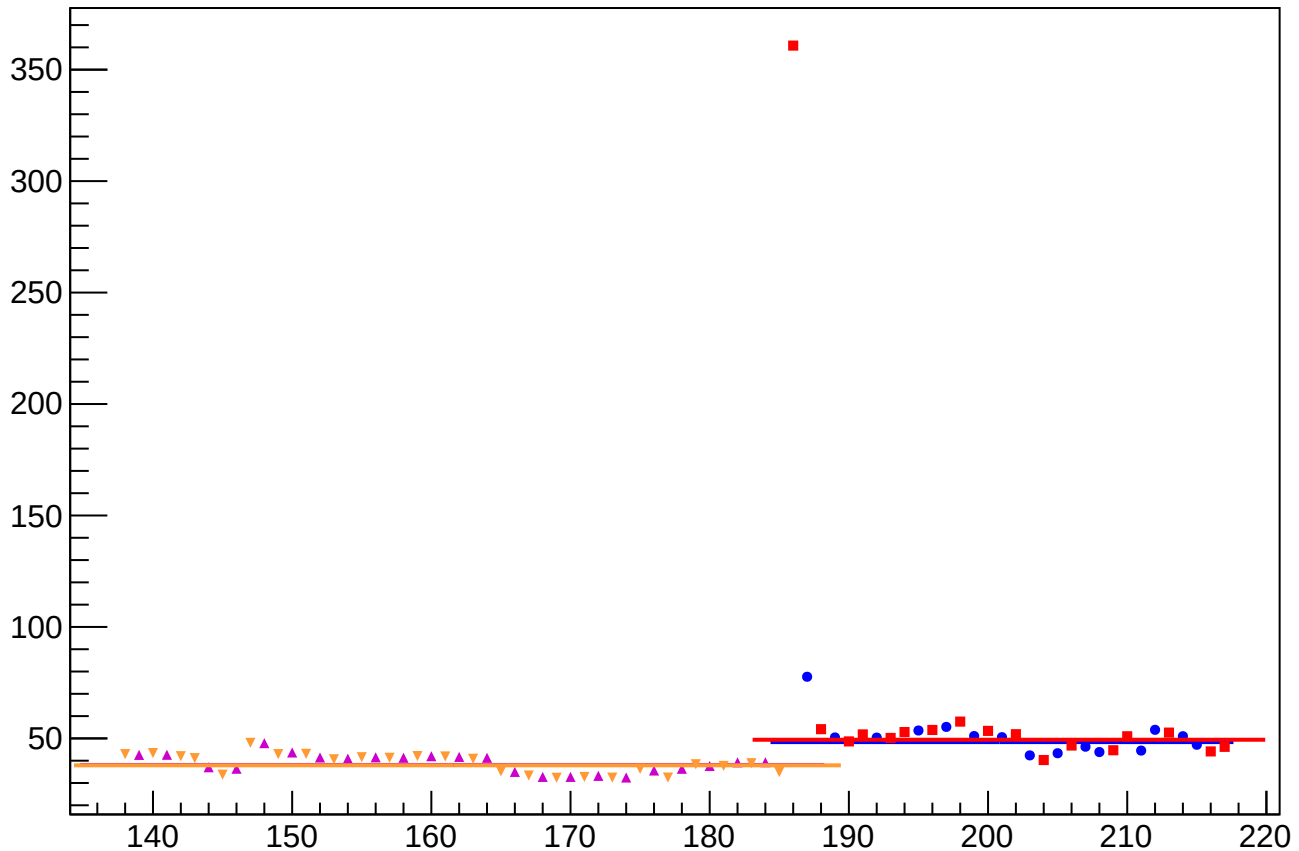
Right: -26.547 ± 10.477 χ^2/NDF : 32.5/31

In: -8.392 ± 7.812 χ^2/NDF : 48.5/37

Out: 28.528 ± 7.612 χ^2/NDF : 61.8/41

All: 10.549 ± 5.452 χ^2/NDF : 121.8/79

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.347 $\pm$ 0.011 χ^2 /NDF: 192405.7/14

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.399 $\pm$ 0.010 χ^2 /NDF: 762104.6/16

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

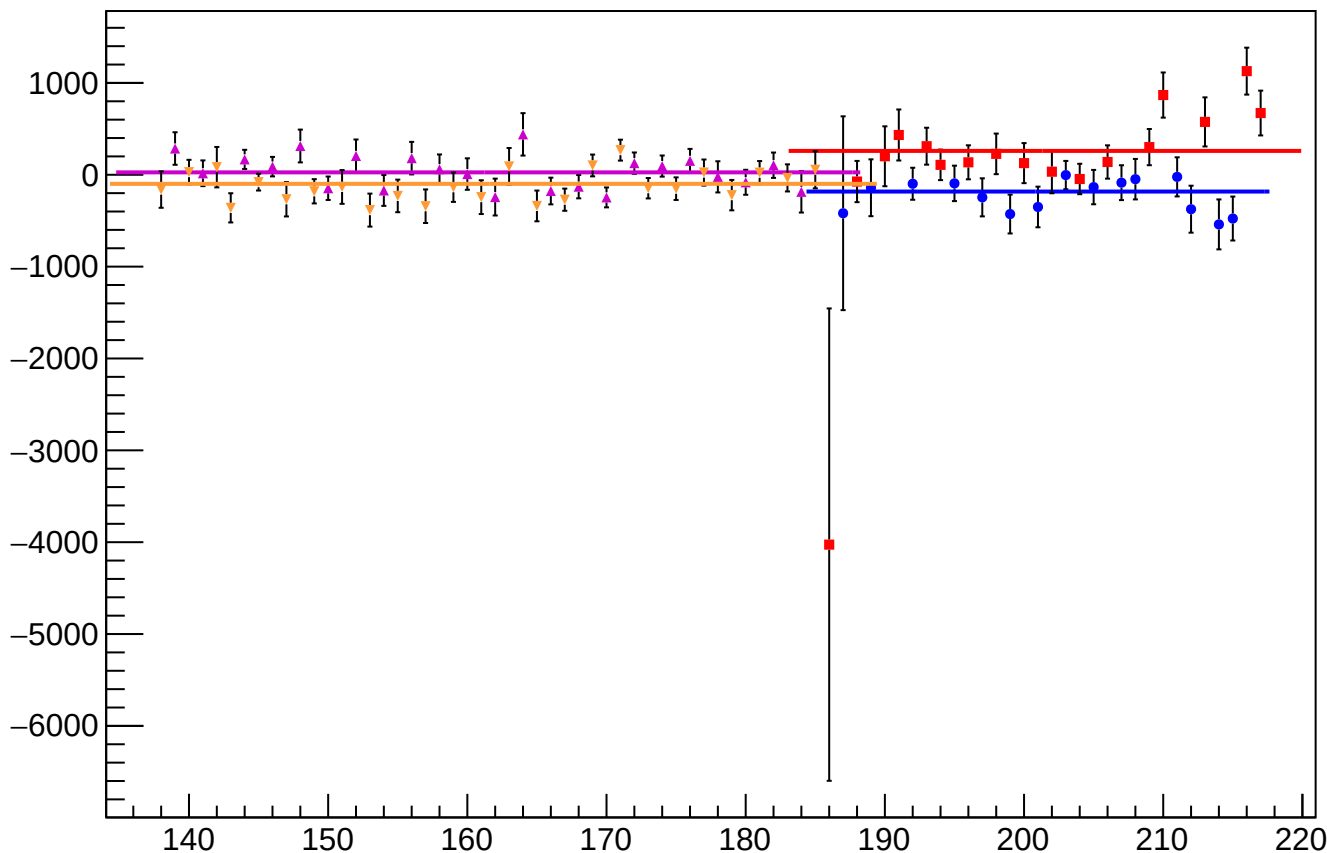
Right: 48.879 $\pm$ 0.007 χ^2 /NDF: 959544.4/31

In: 40.908 $\pm$ 0.006 χ^2 /NDF: 1276330.7/37

Out: 40.986 $\pm$ 0.005 χ^2 /NDF: 2138226.5/41

All: 40.948 $\pm$ 0.004 χ^2 /NDF: 3414661.2/79

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -182.619 ± 55.504 χ^2/NDF : 8.9/14

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 259.848 ± 53.650 χ^2/NDF : 33.9/16

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

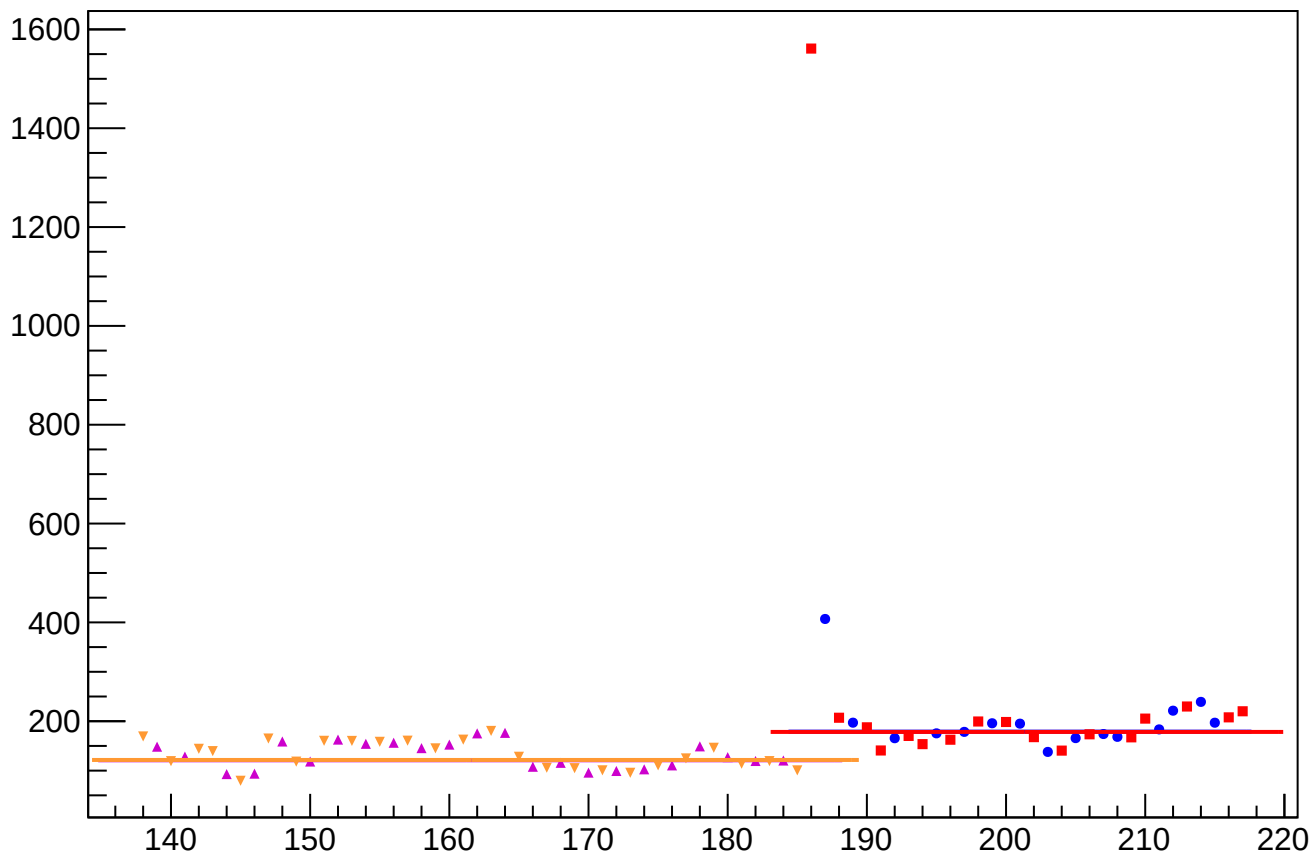
Right: 46.131 ± 38.575 χ^2/NDF : 75.7/31

In: -20.204 ± 26.170 χ^2/NDF : 50.6/37

Out: -17.245 ± 25.576 χ^2/NDF : 101.2/41

All: -18.691 ± 18.291 χ^2/NDF : 151.8/79

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 178.897 $\pm$ 0.039 χ^2 /NDF: 458672.0/14

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 178.333 $\pm$ 0.038 χ^2 /NDF: 1046076.6/16

Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47

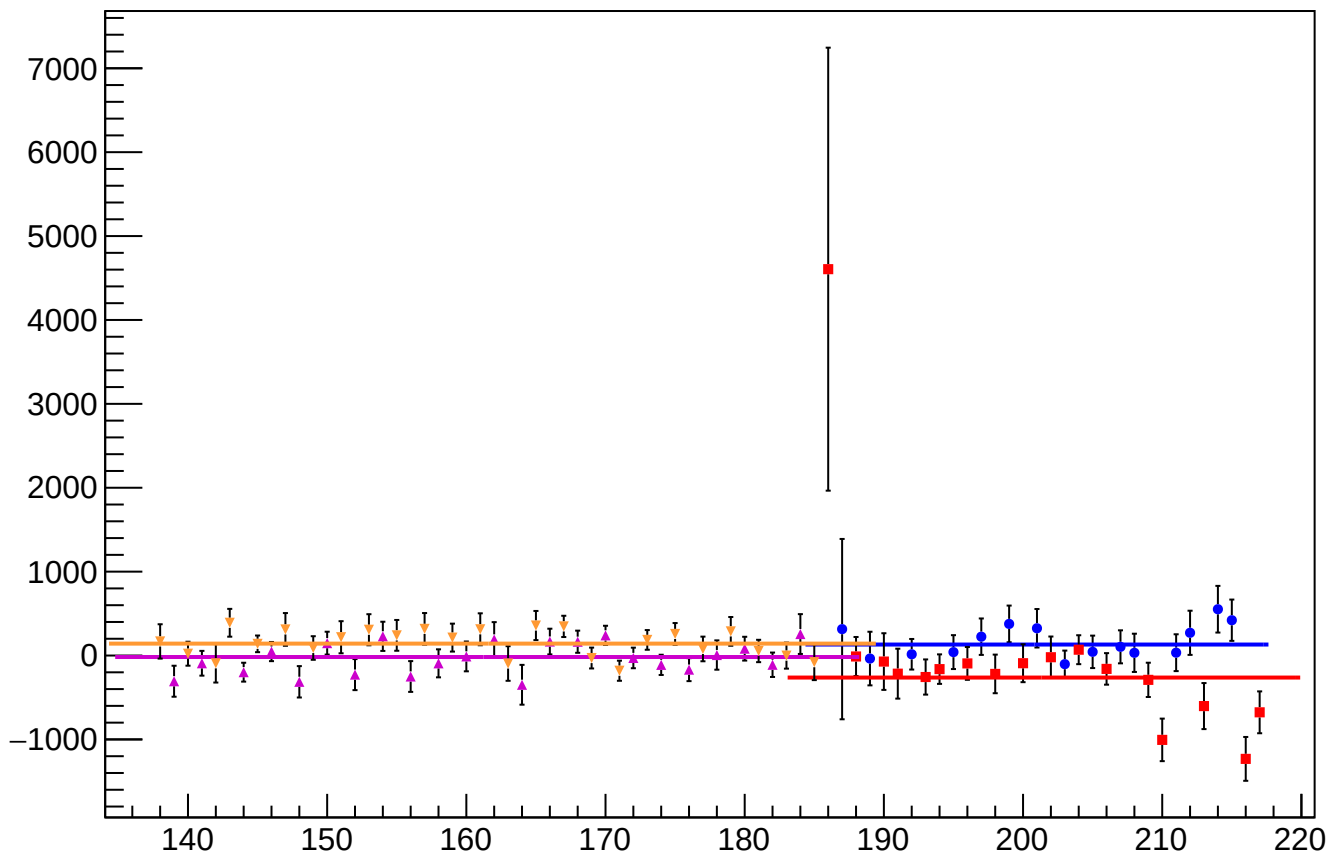
Right: 178.606 $\pm$ 0.027 χ^2 /NDF: 1504855.3/31

In: 133.814 $\pm$ 0.019 χ^2 /NDF:3538195.6/37

Out: 134.487 $\pm$ 0.018 χ^2 /NDF:4486217.3/41

All: 134.158 $\pm$ 0.013 χ^2 /NDF: 8025090.3/79

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 130.999 ± 57.626 $\chi^2/\text{NDF}: 9.7/14$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -262.521 ± 55.873 $\chi^2/\text{NDF}: 38.2/16$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

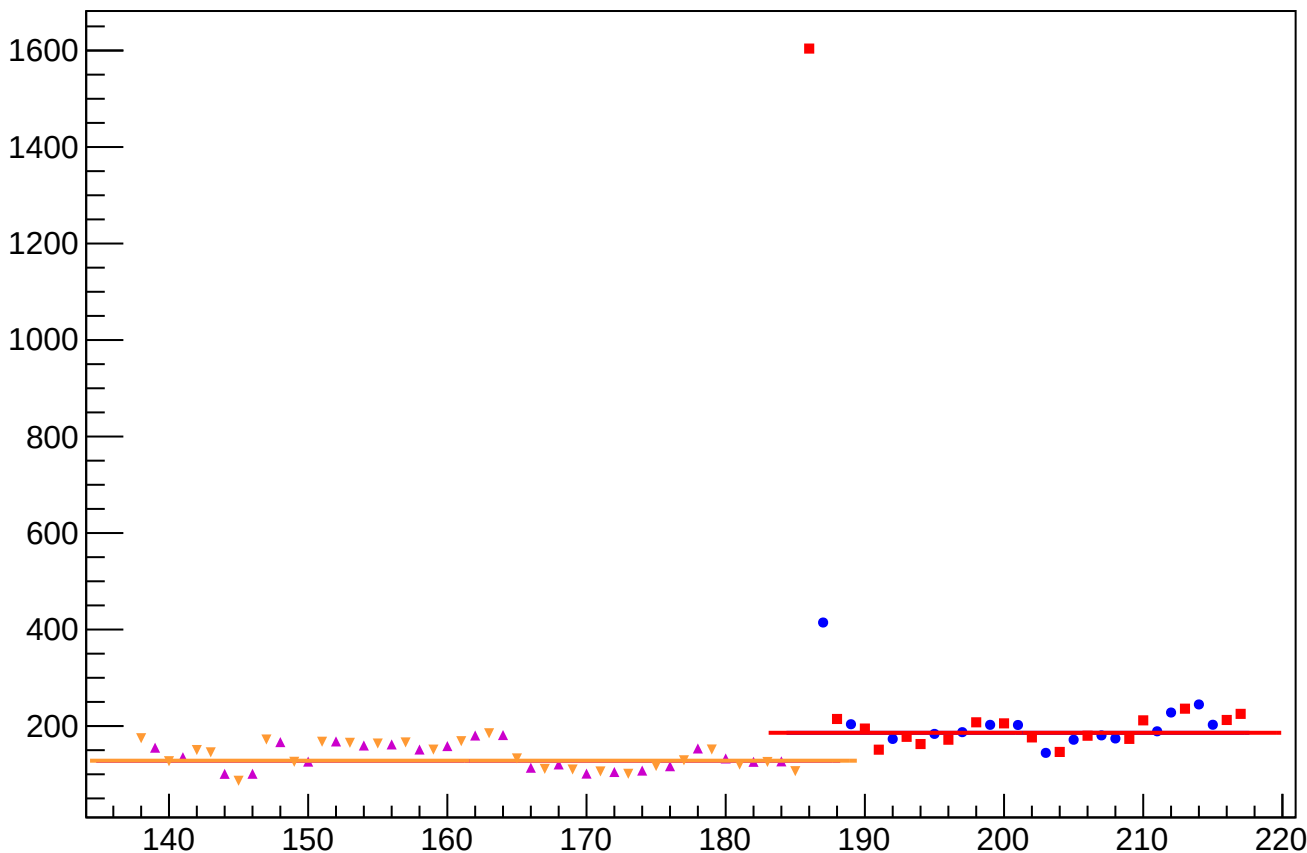
Right: -71.836 ± 40.114 $\chi^2/\text{NDF}: 72.0/31$

In: 16.039 ± 27.443 $\chi^2/\text{NDF}: 45.0/37$

Out: 48.795 ± 26.821 $\chi^2/\text{NDF}: 105.4/41$

All: 32.792 ± 19.181 $\chi^2/\text{NDF}: 151.2/79$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 185.919 $\pm$ 0.041 χ^2 /NDF: 428298.4/14

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 186.027 $\pm$ 0.040 χ^2 /NDF: 994046.0/16

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF:1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

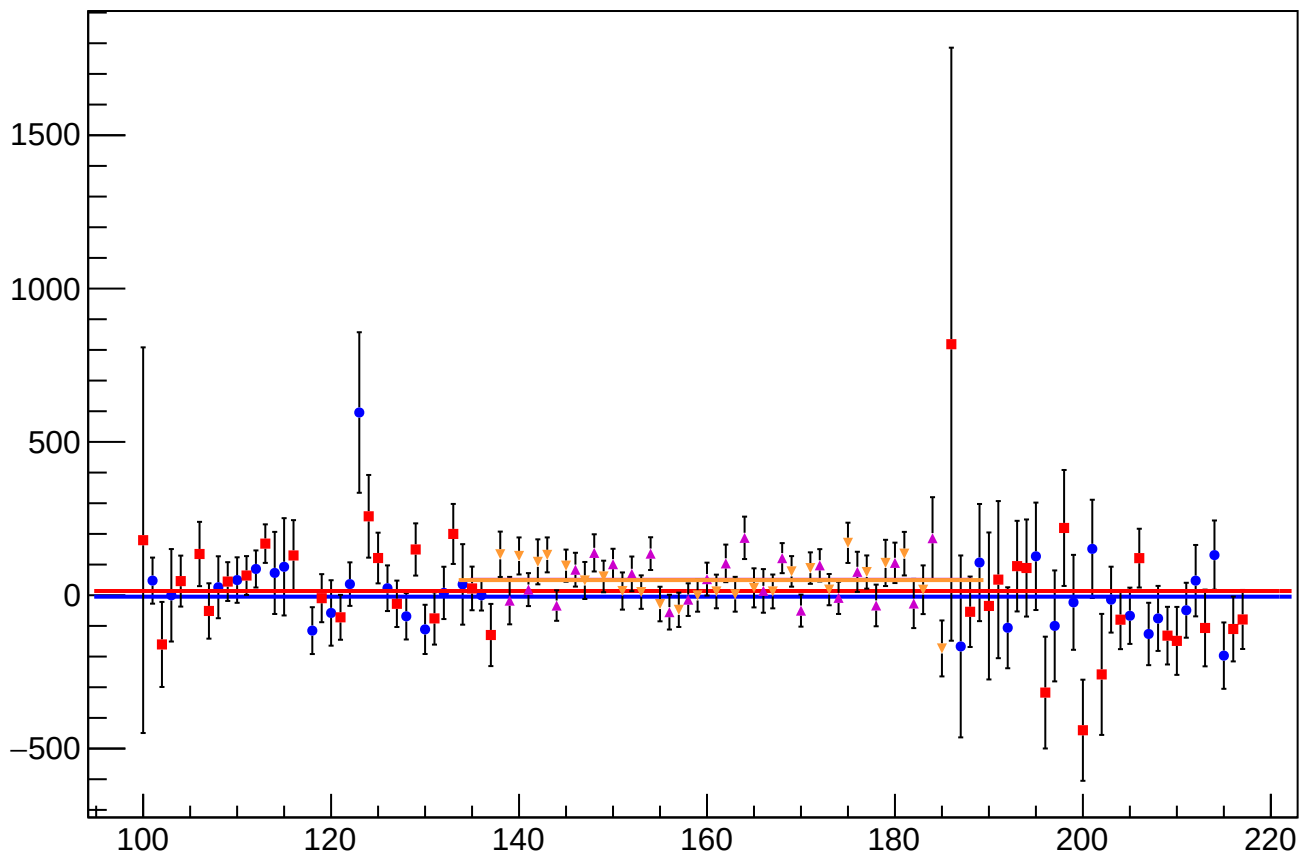
Right: 185.975 $\pm$ 0.028 χ^2 /NDF: 1422348.0/31

In: 140.782 $\pm$ 0.019 χ^2 /NDF:3250908.1/37

Out: 141.506 $\pm$ 0.019 χ^2 /NDF:4177046.0/41

All: 141.153 $\pm$ 0.014 χ^2 /NDF: 7428666.0/79

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -4.719 ± 17.031 $\chi^2/\text{NDF}: 25.2/31$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 13.796 ± 16.597 $\chi^2/\text{NDF}: 53.1/35$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

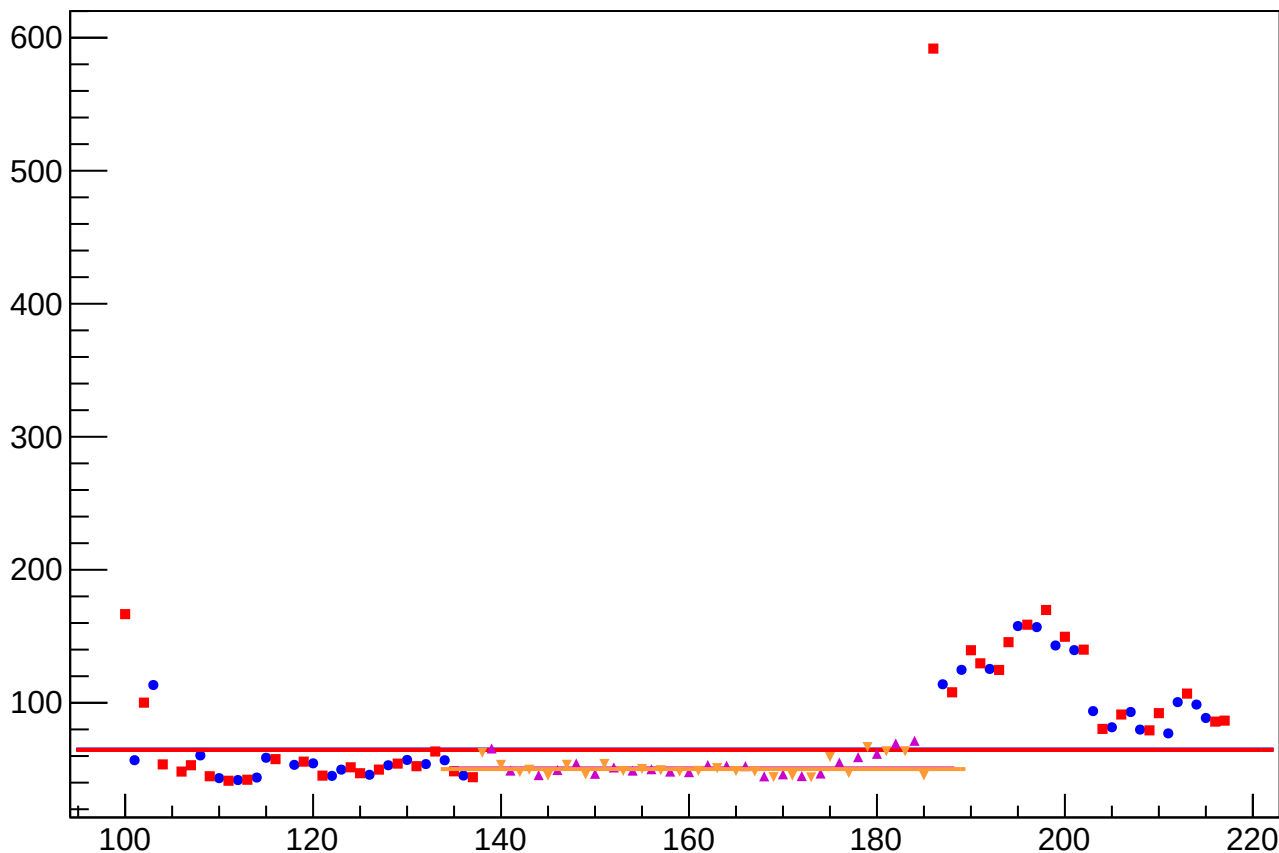
Right: 4.777 ± 11.886 $\chi^2/\text{NDF}: 78.9/67$

In: 31.554 ± 9.946 $\chi^2/\text{NDF}: 64.2/54$

Out: 37.440 ± 9.620 $\chi^2/\text{NDF}: 84.3/60$

All: 34.595 ± 6.915 $\chi^2/\text{NDF}: 148.7/115$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 64.914 $\pm$ 0.012 χ^2 /NDF: 5119465.0/31

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 64.560 $\pm$ 0.012 χ^2 /NDF: 6460048.8/35

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

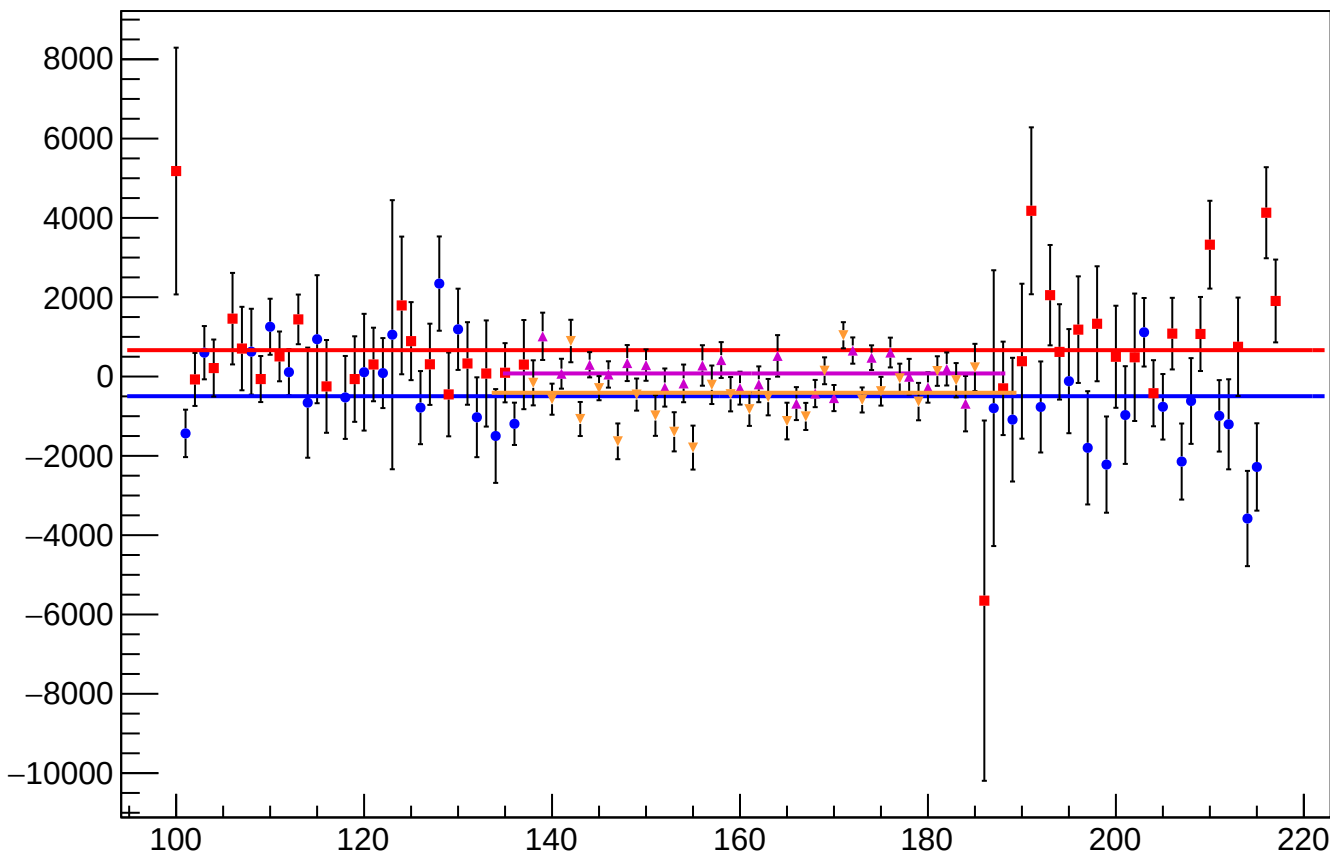
Right: 64.732 $\pm$ 0.008 χ^2 /NDF: 11579955.3/67

In: 55.537 $\pm$ 0.007 χ^2 /NDF: 6508840.1/54

Out: 55.017 $\pm$ 0.007 χ^2 /NDF: 7923370.8/60

All: 55.269 $\pm$ 0.005 χ^2 /NDF: 14435030.9/115

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -496.035 $\pm$ 170.338 χ^2/NDF : 46.0/31

Left Out: -409.164 $\pm$ 82.348 χ^2/NDF : 61.7/24

Right Out: 664.974 $\pm$ 167.680 χ^2/NDF : 36.7/35

Left In: 77.872 $\pm$ 84.072 χ^2/NDF : 24.8/22

Left: -170.691 $\pm$ 58.829 χ^2/NDF : 103.6/47

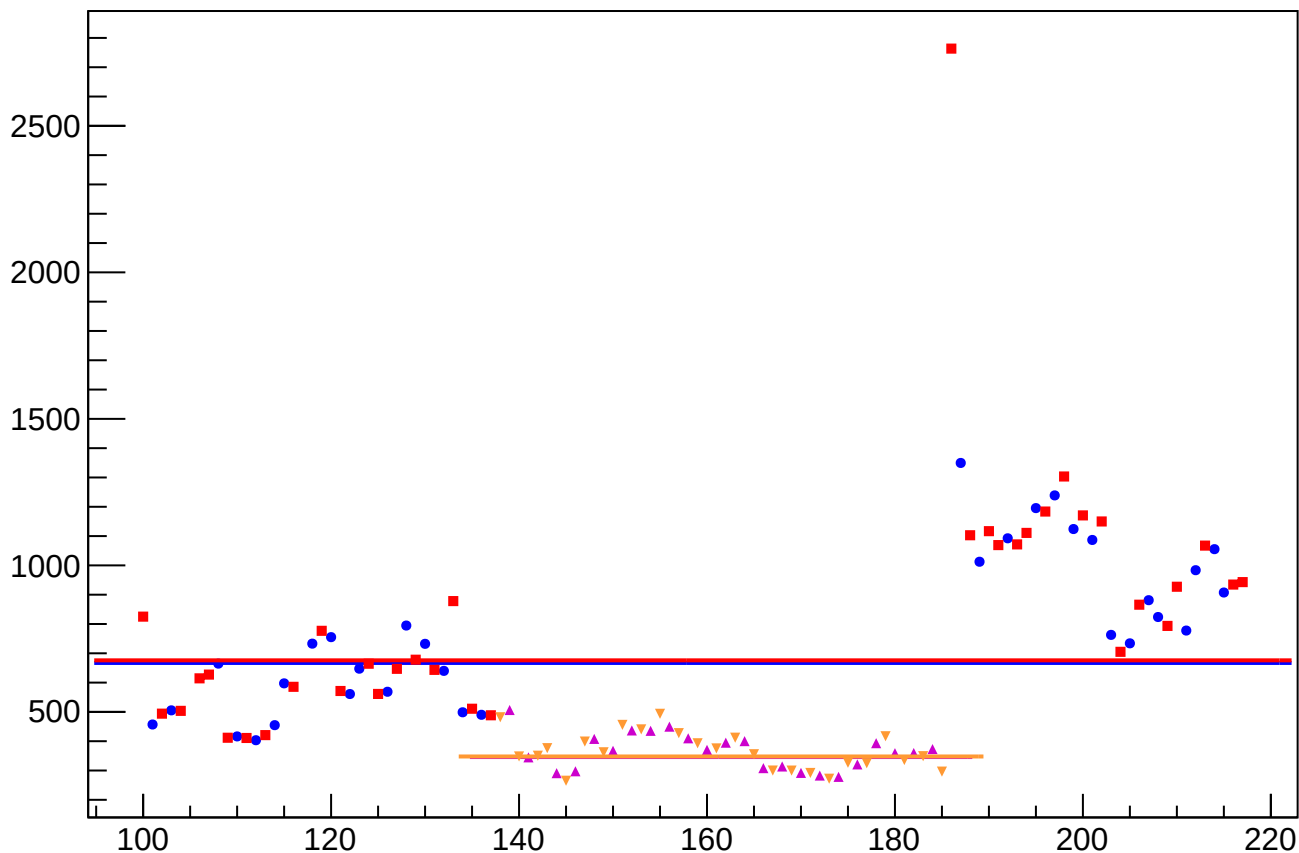
Right: 93.599 $\pm$ 119.496 χ^2/NDF : 106.3/67

In: -34.548 $\pm$ 75.390 χ^2/NDF : 80.0/54

Out: -200.441 $\pm$ 73.916 χ^2/NDF : 131.4/60

All: -119.132 $\pm$ 52.780 χ^2/NDF : 213.9/115

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 667.097 $\pm$ 0.120 χ^2 /NDF: 3716048.8/31

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 675.957 $\pm$ 0.119 χ^2 /NDF: 4764922.9/35

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF:900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

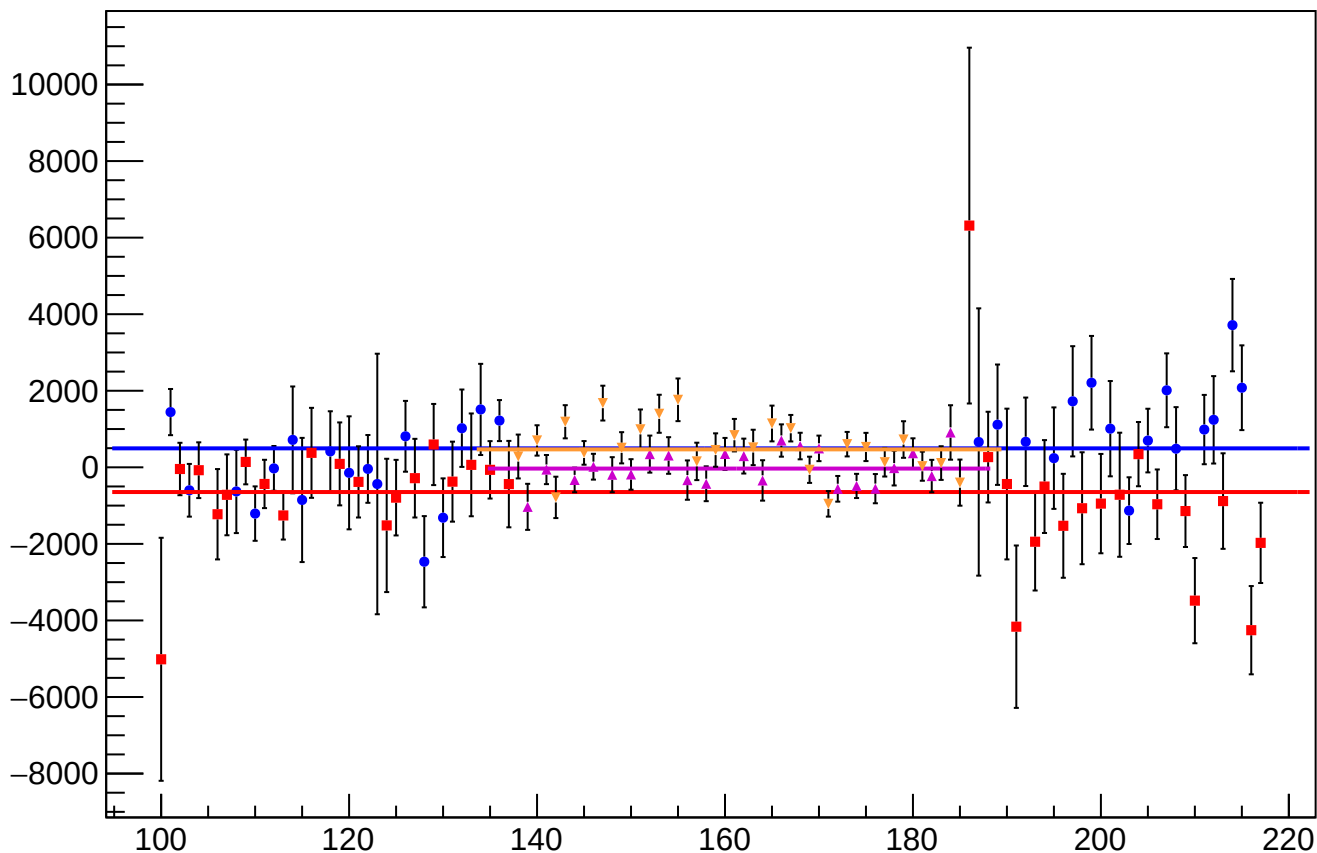
Right: 671.597 $\pm$ 0.084 χ^2 /NDF: 8483719.5/67

In: 408.861 $\pm$ 0.053 χ^2 /NDF:10333276.5/54

Out: 411.627 $\pm$ 0.052 χ^2 /NDF:11977729.4/60

All: 410.271 $\pm$ 0.037 χ^2 /NDF: 22312378.5/11

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 495.363+/-171.514 χ^2/NDF : 45.2/31

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -645.551+/-168.914 χ^2/NDF : 37.4/35

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

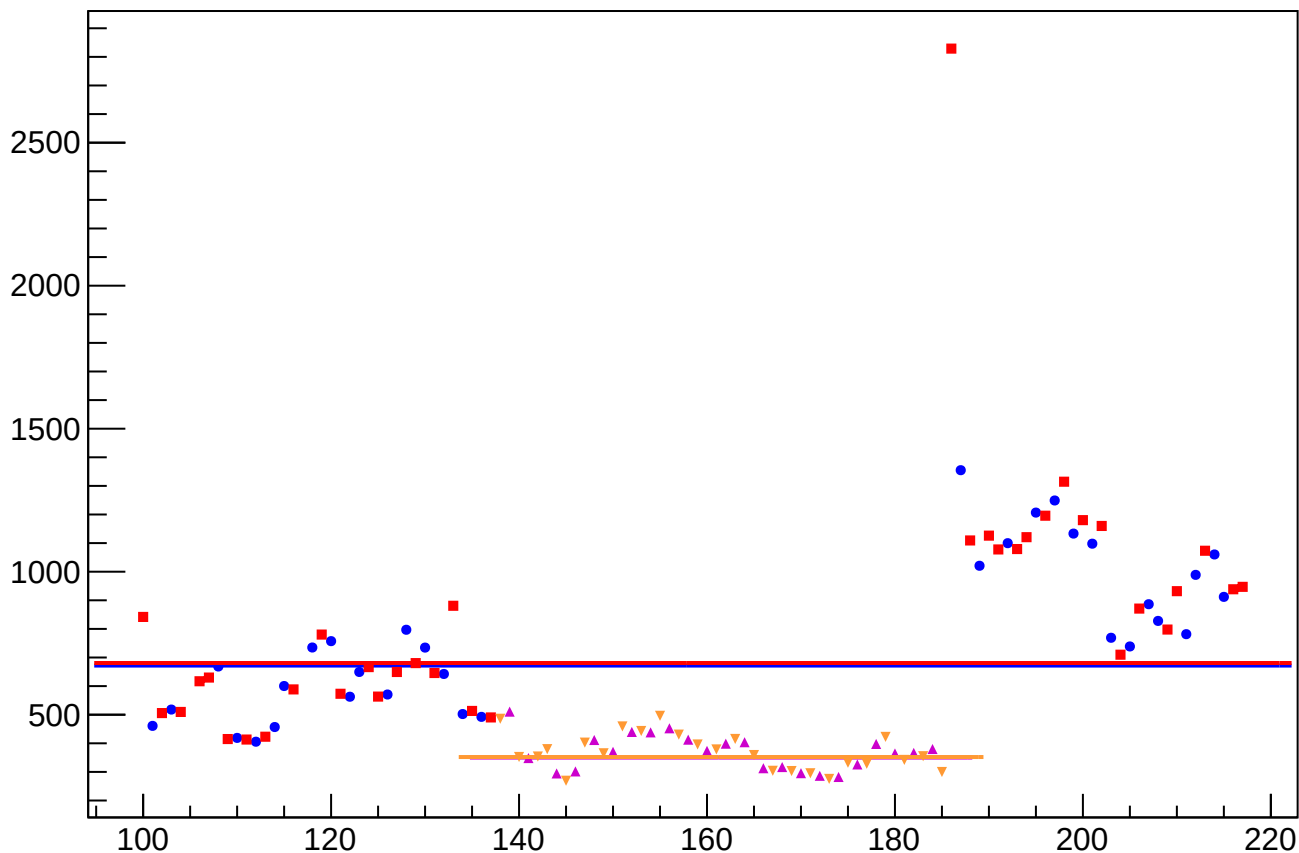
Right: -83.806+/-120.349 χ^2/NDF : 105.0/67

In: 71.466+/-76.206 χ^2/NDF : 78.5/54

Out: 250.878+/-74.706 χ^2/NDF : 129.9/60

All: 162.955+/-53.348 χ^2/NDF : 211.2/115

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 671.816+/-0.121 χ^2/NDF : 3706218.5/31

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 680.785+/-0.119 χ^2/NDF : 4759520.5/35

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

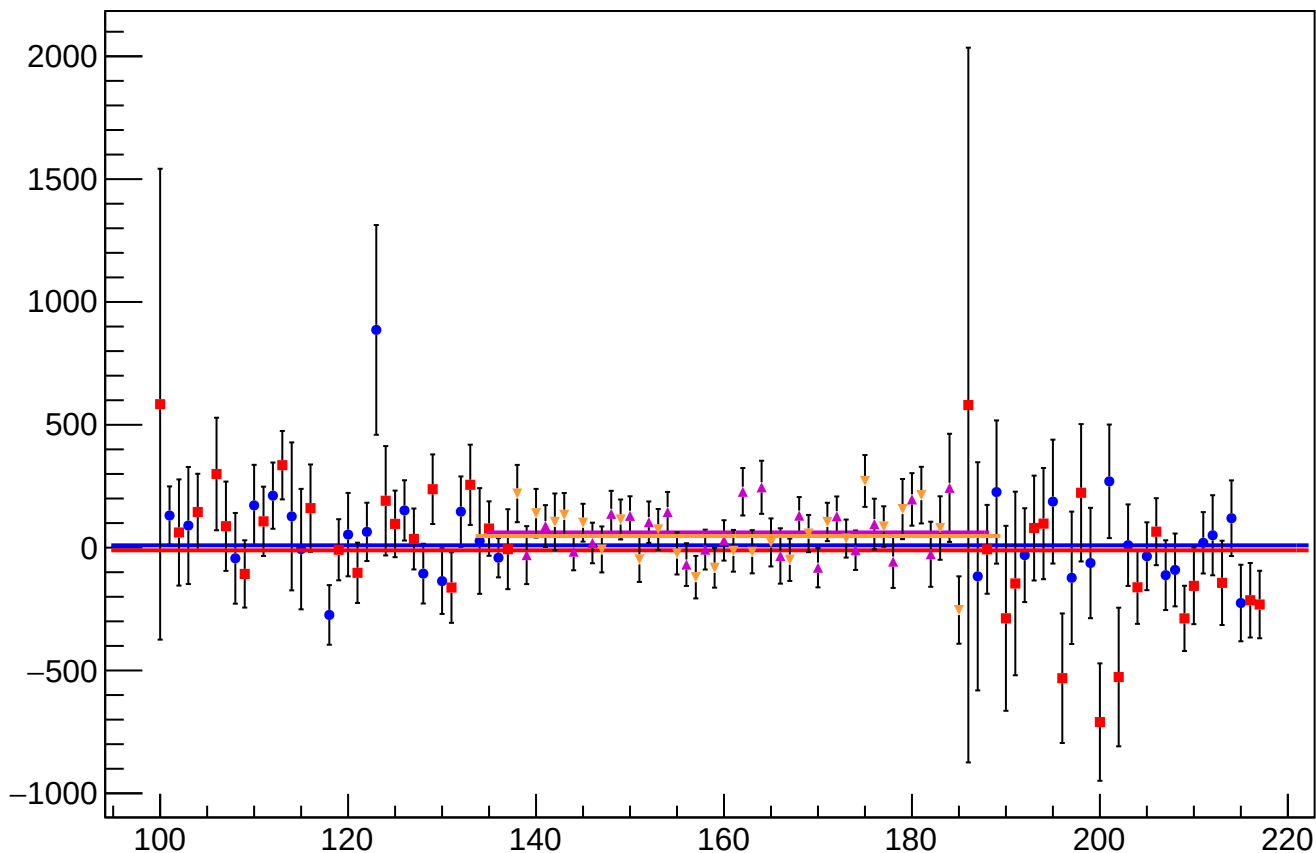
Right: 676.369+/-0.085 χ^2/NDF : 8468515.3/67

In: 413.660+/-0.054 χ^2/NDF : 10230134.6/54

Out: 416.324+/-0.053 χ^2/NDF : 11871423.8/60

All: 415.018+/-0.038 χ^2/NDF : 22102804.5/111

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 9.386 ± 27.585 $\chi^2/\text{NDF}: 26.3/31$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -10.836 ± 27.767 $\chi^2/\text{NDF}: 50.9/35$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

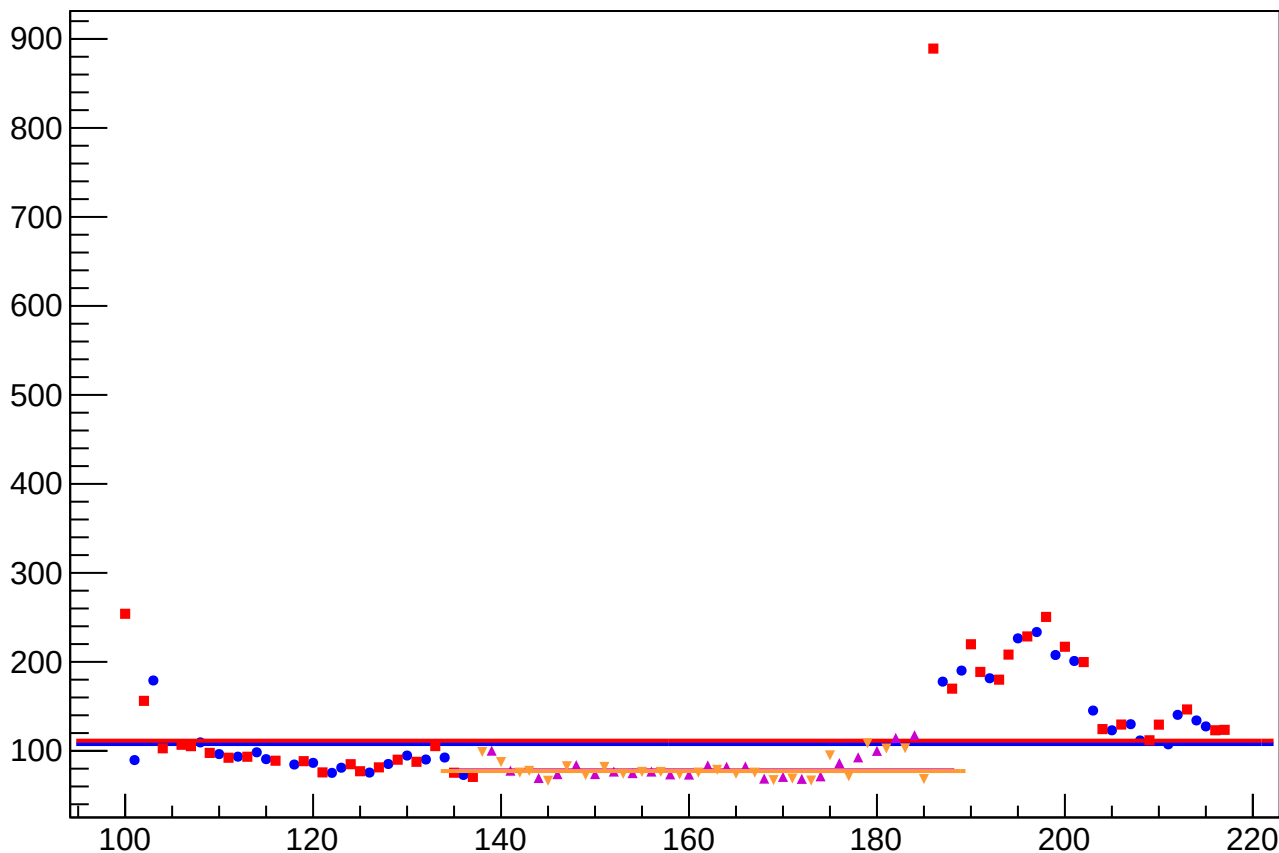
Right: -0.659 ± 19.569 $\chi^2/\text{NDF}: 77.4/67$

In: 45.006 ± 15.624 $\chi^2/\text{NDF}: 52.7/54$

Out: 29.846 ± 15.252 $\chi^2/\text{NDF}: 83.3/60$

All: 37.244 ± 10.914 $\chi^2/\text{NDF}: 136.5/115$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.668 $\pm$ 0.020 χ^2 /NDF: 3629240.6/31

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 111.441 $\pm$ 0.020 χ^2 /NDF: 4481142.1/35

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF:582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

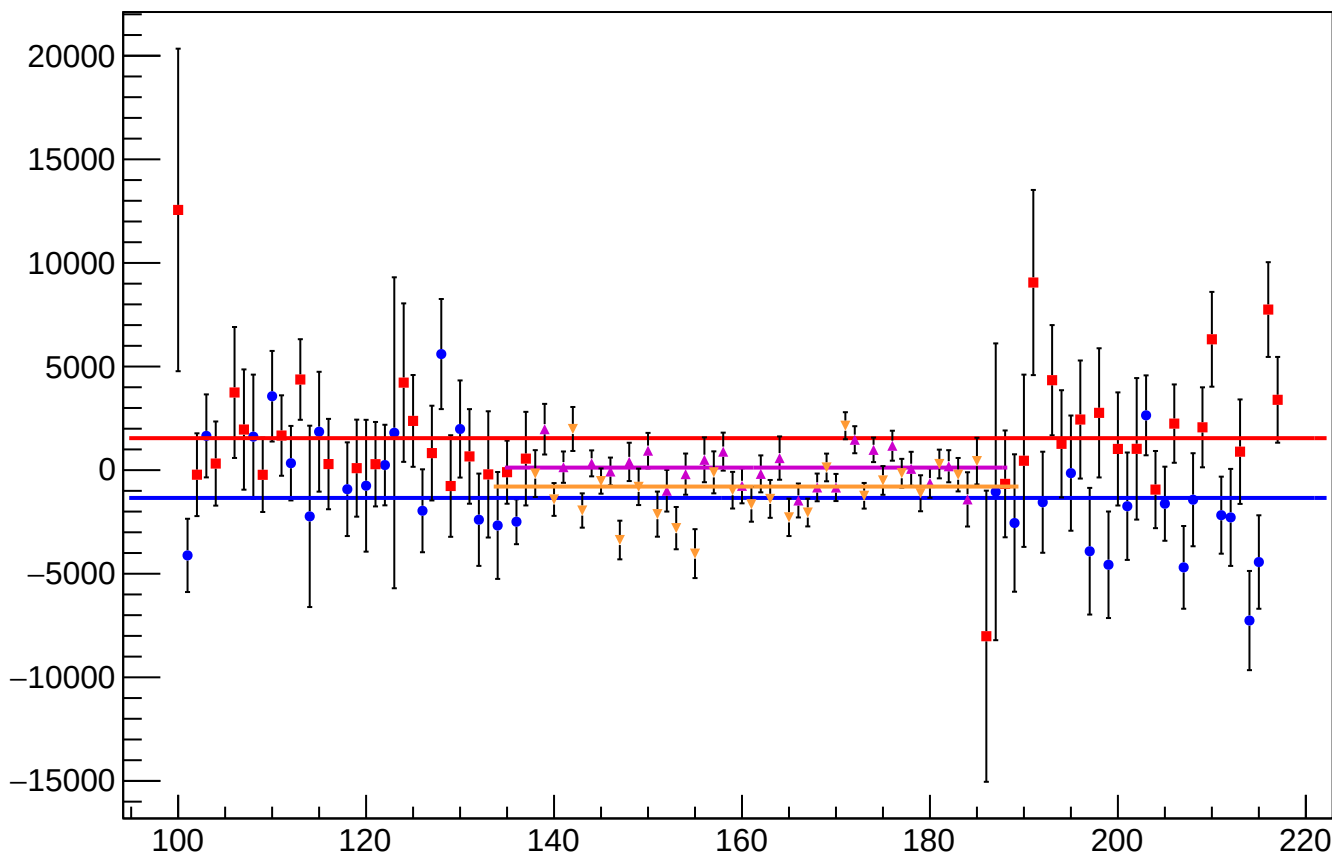
Right: 109.542 $\pm$ 0.014 χ^2 /NDF: 8128970.1/67

In: 87.612 $\pm$ 0.011 χ^2 /NDF:5768050.2/54

Out: 87.613 $\pm$ 0.011 χ^2 /NDF:7226104.8/60

All: 87.612 $\pm$ 0.008 χ^2 /NDF: 12994155.0/115

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1341.666 ± 394.896 $\chi^2/\text{NDF}: 42.4/31$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1543.453 ± 395.783 $\chi^2/\text{NDF}: 32.8/35$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

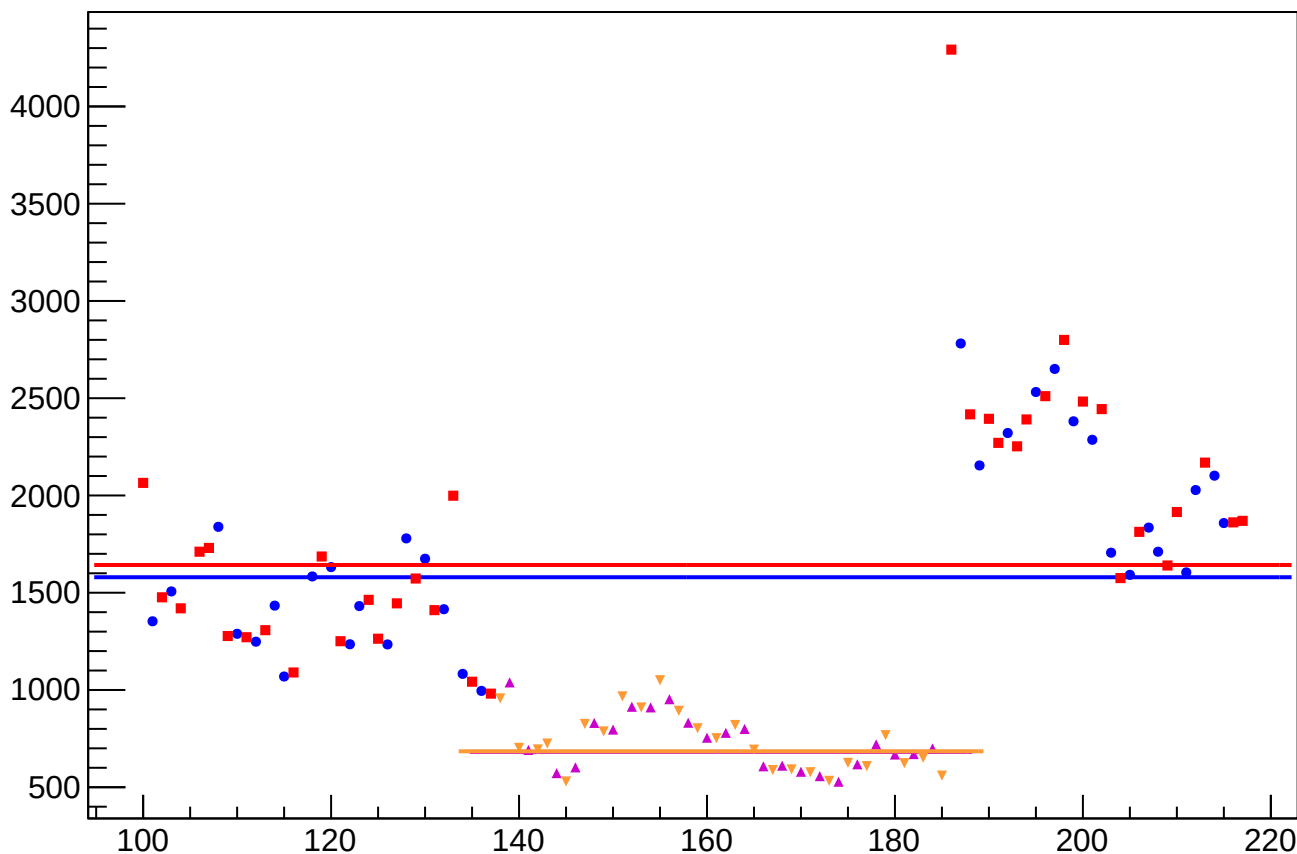
Right: 97.657 ± 279.547 $\chi^2/\text{NDF}: 101.8/67$

In: -98.066 ± 153.181 $\chi^2/\text{NDF}: 80.0/54$

Out: -455.196 ± 150.449 $\chi^2/\text{NDF}: 129.2/60$

All: -279.844 ± 107.336 $\chi^2/\text{NDF}: 212.0/115$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1579.672 $\pm$ 0.279 χ^2/NDF : 2394631.3/31

Left Out: 684.785 $\pm$ 0.115 χ^2/NDF : 1280146.2/24

Right Out: 1642.575 $\pm$ 0.280 χ^2/NDF : 2854628.7/35

Left In: 681.712 $\pm$ 0.118 χ^2/NDF : 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2/NDF : 2400132.5/47

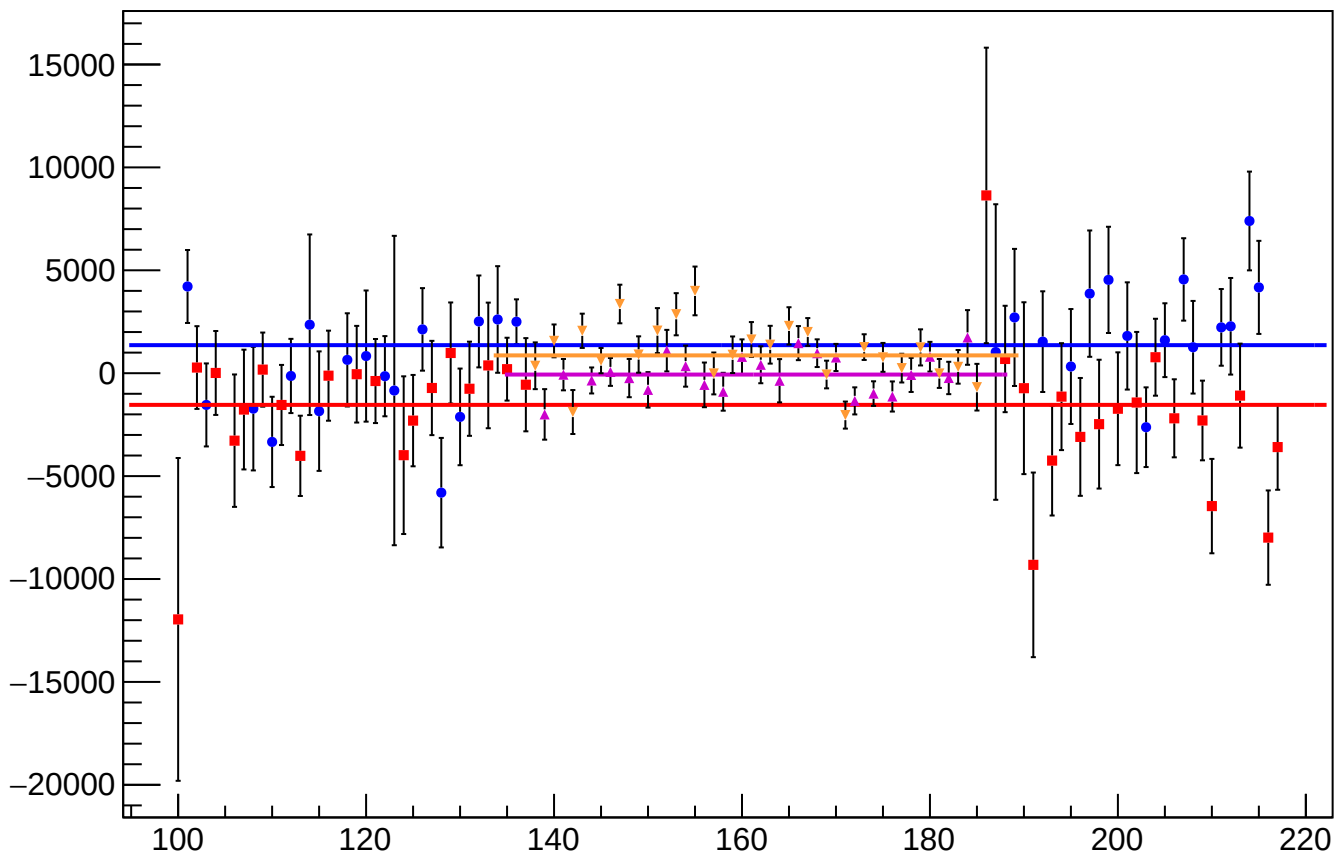
Right: 1611.053 $\pm$ 0.198 χ^2/NDF : 5274576.7/67

In: 816.825 $\pm$ 0.108 χ^2/NDF : 12299586.5/54

Out: 823.183 $\pm$ 0.106 χ^2/NDF : 14154985.8/60

All: 820.062 $\pm$ 0.076 χ^2/NDF : 26456326.2/11

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1362.969 $\pm$ 396.072 χ^2 /NDF: 41.8/31

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF: 62.8/24

Right Out: -1538.812 $\pm$ 397.087 χ^2 /NDF: 33.4/35

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF: 26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

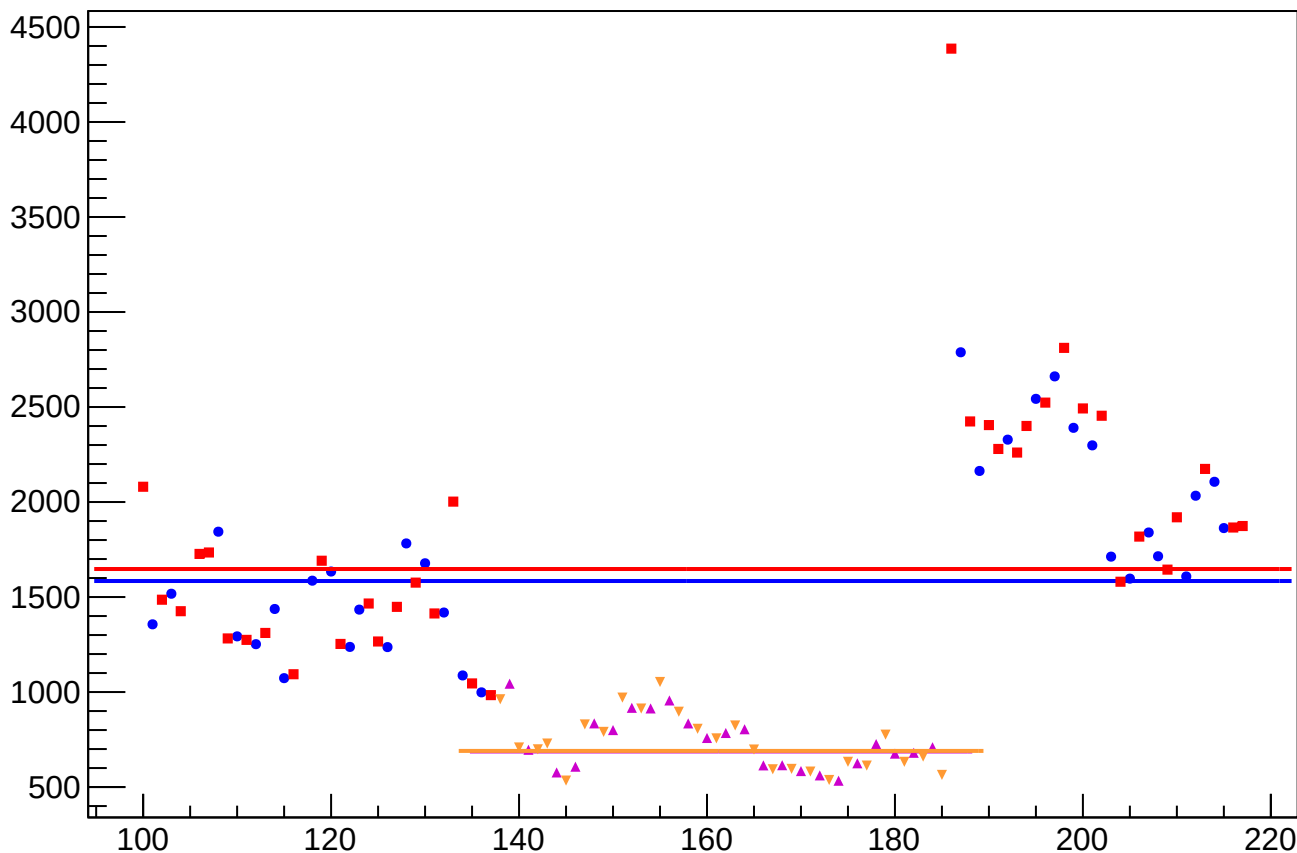
Right: -84.211 $\pm$ 280.423 χ^2 /NDF: 102.0/67

In: 150.824 $\pm$ 154.260 χ^2 /NDF: 79.3/54

Out: 515.646 $\pm$ 151.490 χ^2 /NDF: 127.6/60

All: 336.539 $\pm$ 108.086 χ^2 /NDF: 209.7/115

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1584.303 $\pm$ 0.280 χ^2 /NDF: 2397873.8/31

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1647.478 $\pm$ 0.281 χ^2 /NDF: 2866187.4/35

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

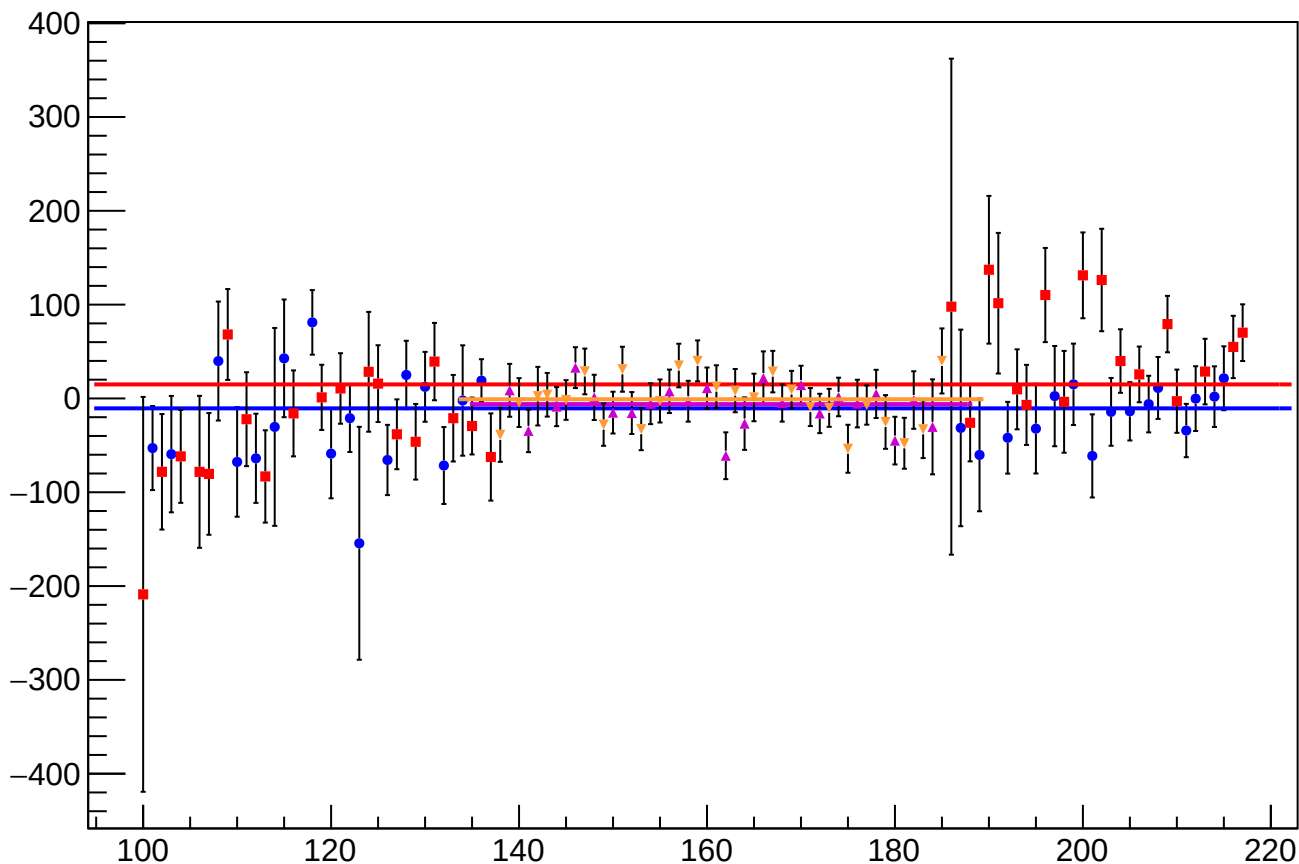
Right: 1615.810 $\pm$ 0.198 χ^2 /NDF: 5289437.0/67

In: 823.295 $\pm$ 0.109 χ^2 /NDF: 12201291.4/54

Out: 829.499 $\pm$ 0.107 χ^2 /NDF: 14056757.7/60

All: 826.453 $\pm$ 0.076 χ^2 /NDF: 26259695.8/111

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -10.565 ± 7.107 χ^2/NDF : 27.7/31

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 14.960 ± 7.156 χ^2/NDF : 55.8/35

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

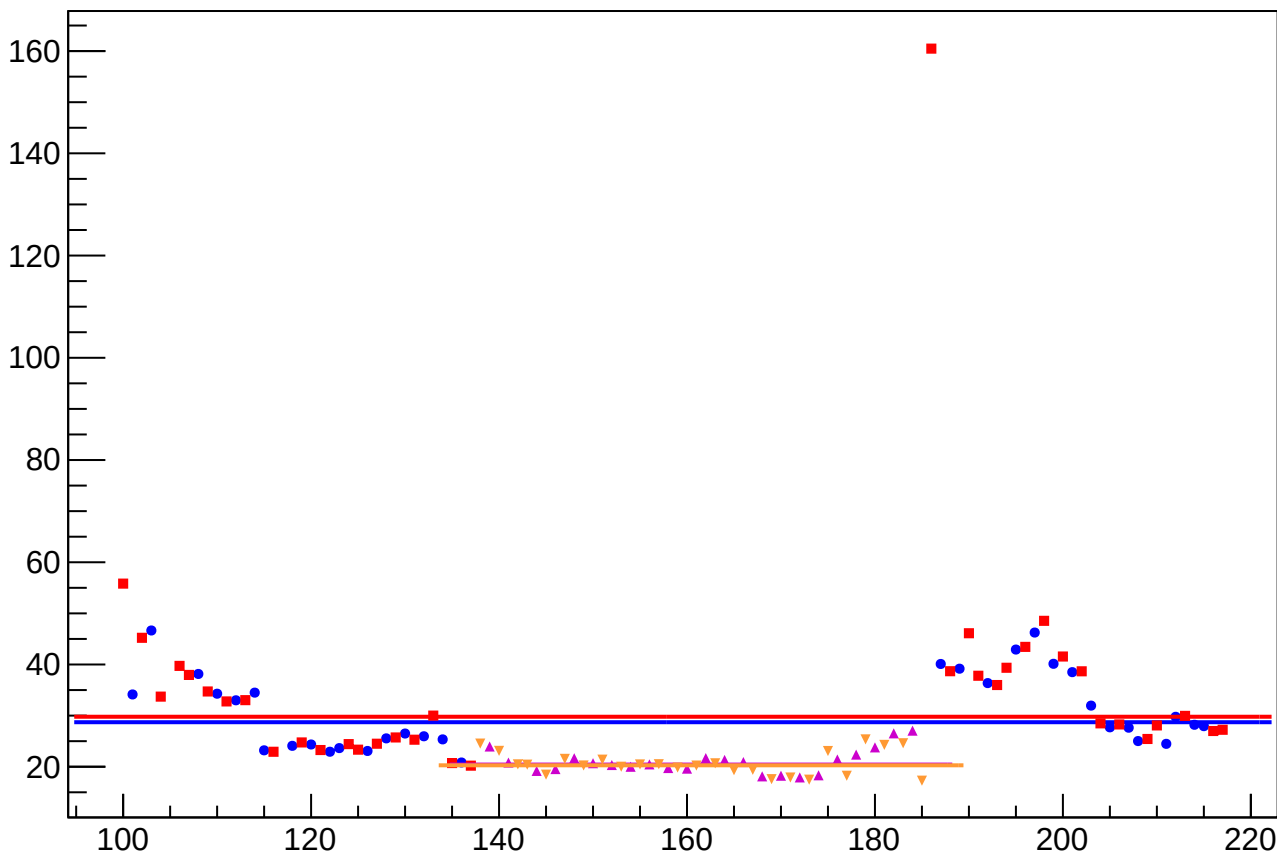
Right: 2.109 ± 5.043 χ^2/NDF : 89.9/67

In: -7.509 ± 4.048 χ^2/NDF : 44.9/54

Out: 3.992 ± 3.963 χ^2/NDF : 87.1/60

All: -1.637 ± 2.832 χ^2/NDF : 136.1/115

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.708+/-0.005 χ^2/NDF : 1613721.0/31

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.779+/-0.005 χ^2/NDF : 2316724.0/35

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

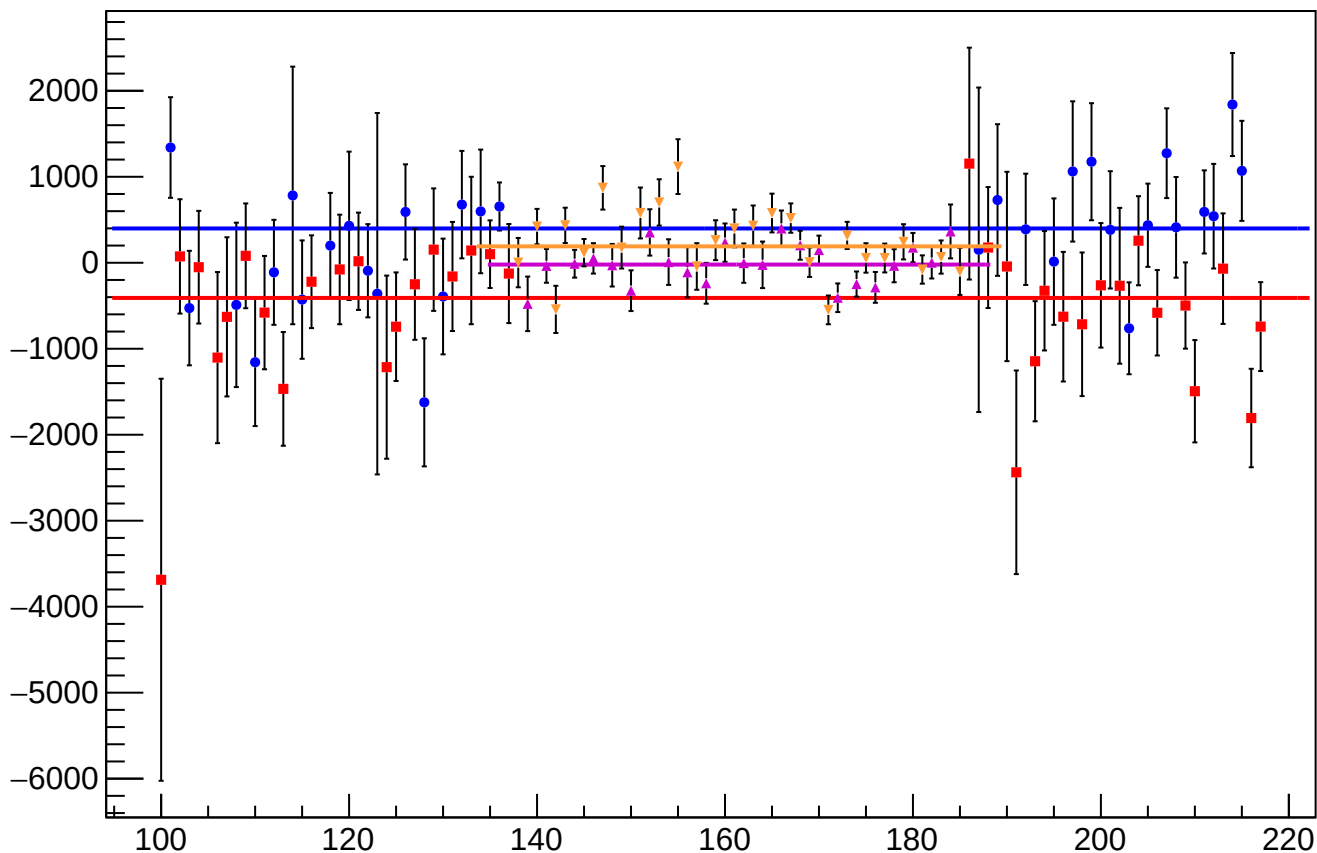
Right: 29.240+/-0.004 χ^2/NDF : 3953001.4/67

In: 23.112+/-0.003 χ^2/NDF : 3773000.0/54

Out: 23.193+/-0.003 χ^2/NDF : 5167128.7/60

All: 23.153+/-0.002 χ^2/NDF : 8940544.1/115

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 398.923 $\pm$ 108.959 χ^2/NDF : 40.3/31

Left Out: 190.867 $\pm$ 41.314 χ^2/NDF : 67.9/24

Right Out: -409.044 $\pm$ 109.979 χ^2/NDF : 29.8/35

Left In: -20.998 $\pm$ 42.291 χ^2/NDF : 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2/NDF : 108.4/47

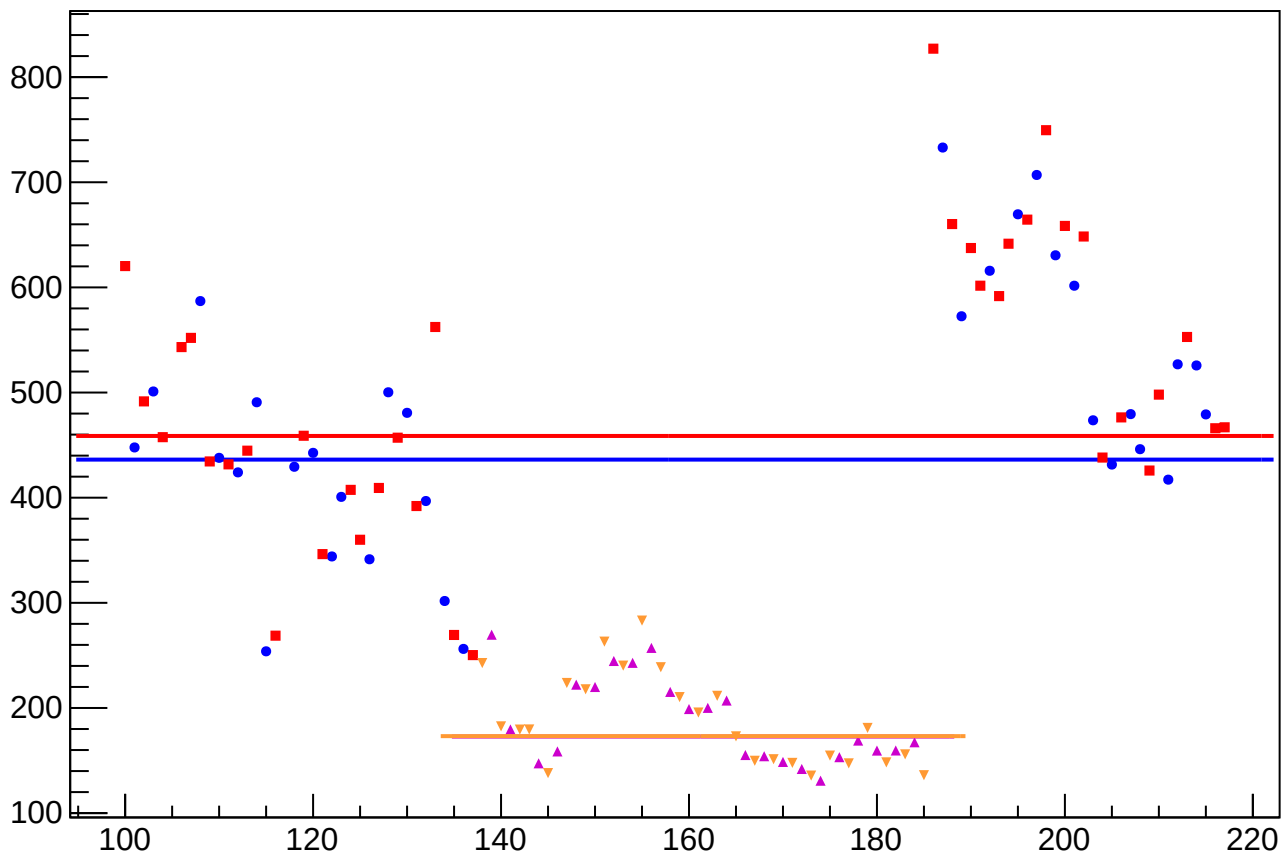
Right: -1.295 $\pm$ 77.404 χ^2/NDF : 97.4/67

In: 33.980 $\pm$ 39.425 χ^2/NDF : 80.9/54

Out: 116.680 $\pm$ 38.675 χ^2/NDF : 123.8/60

All: 76.124 $\pm$ 27.609 χ^2/NDF : 207.0/115

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 436.217+/-0.077 χ^2/NDF : 2343515.2/31

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 458.713+/-0.078 χ^2/NDF : 2529250.9/35

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

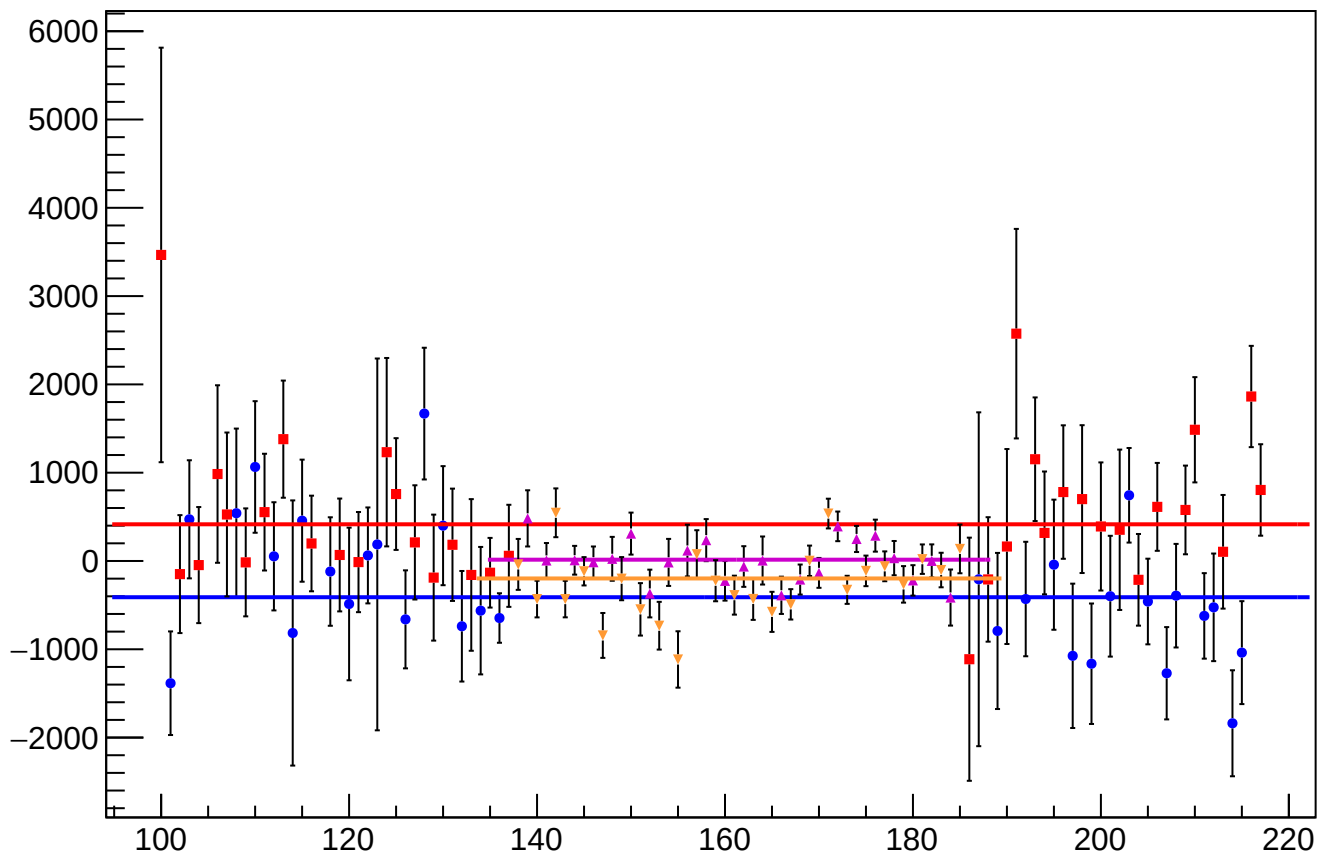
Right: 447.360+/-0.055 χ^2/NDF : 4914995.0/67

In: 207.312+/-0.028 χ^2/NDF :13872530.4/54

Out: 208.516+/-0.027 χ^2/NDF :15901948.8/60

All: 207.926+/-0.020 χ^2/NDF : 29775430.1/11

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -410.501 ± 109.230 $\chi^2/\text{NDF}: 39.9/31$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 415.512 ± 110.270 $\chi^2/\text{NDF}: 30.5/35$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

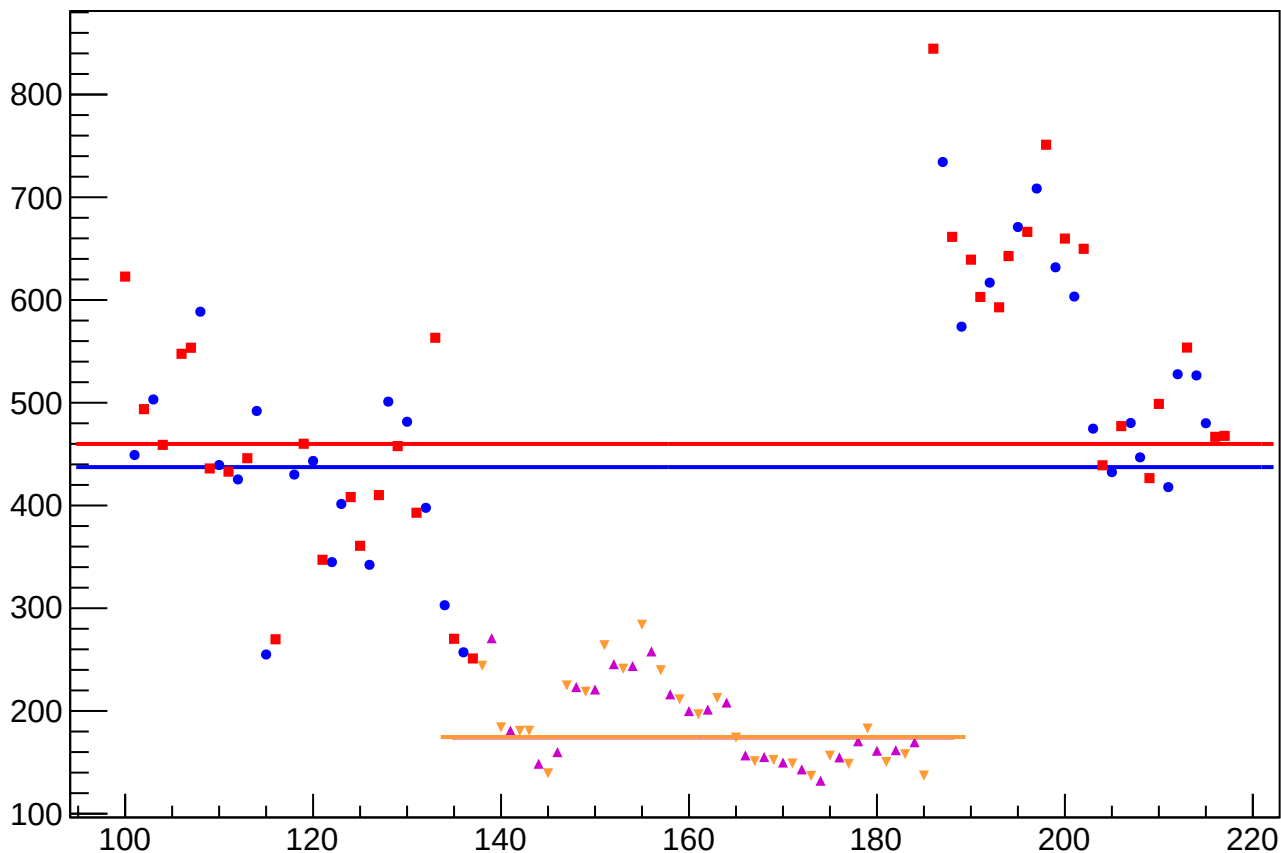
Right: -1.407 ± 77.602 $\chi^2/\text{NDF}: 98.7/67$

In: -41.576 ± 39.712 $\chi^2/\text{NDF}: 80.7/54$

Out: -121.367 ± 38.954 $\chi^2/\text{NDF}: 121.8/60$

All: -82.241 ± 27.809 $\chi^2/\text{NDF}: 204.6/115$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 437.361 $\pm$ 0.077 χ^2 /NDF: 2335869.7/31

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF:1531999.5/24

Right Out: 459.897 $\pm$ 0.078 χ^2 /NDF: 2531651.0/35

Left In: 174.288 $\pm$ 0.030 χ^2 /NDF:1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2 /NDF: 2876851.9/47

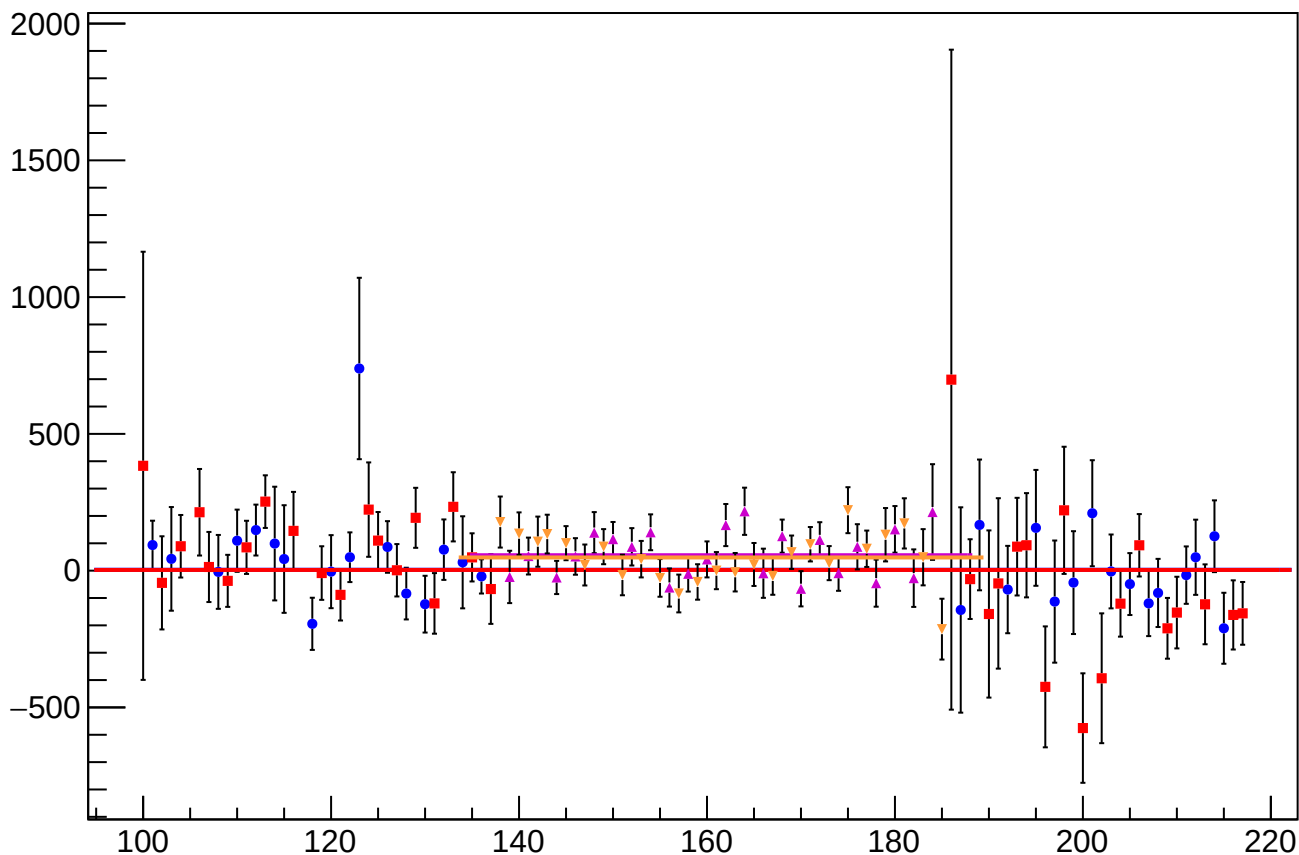
Right: 448.522 $\pm$ 0.055 χ^2 /NDF: 4909682.4/67

In: 209.061 $\pm$ 0.028 χ^2 /NDF:13748291.3/54

Out: 210.244 $\pm$ 0.028 χ^2 /NDF:15776902.3/60

All: 209.664 $\pm$ 0.020 χ^2 /NDF: 29526098.5/111

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 3.252 ± 21.685 χ^2/NDF : 26.1/31

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: 2.588 ± 21.632 χ^2/NDF : 51.1/35

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

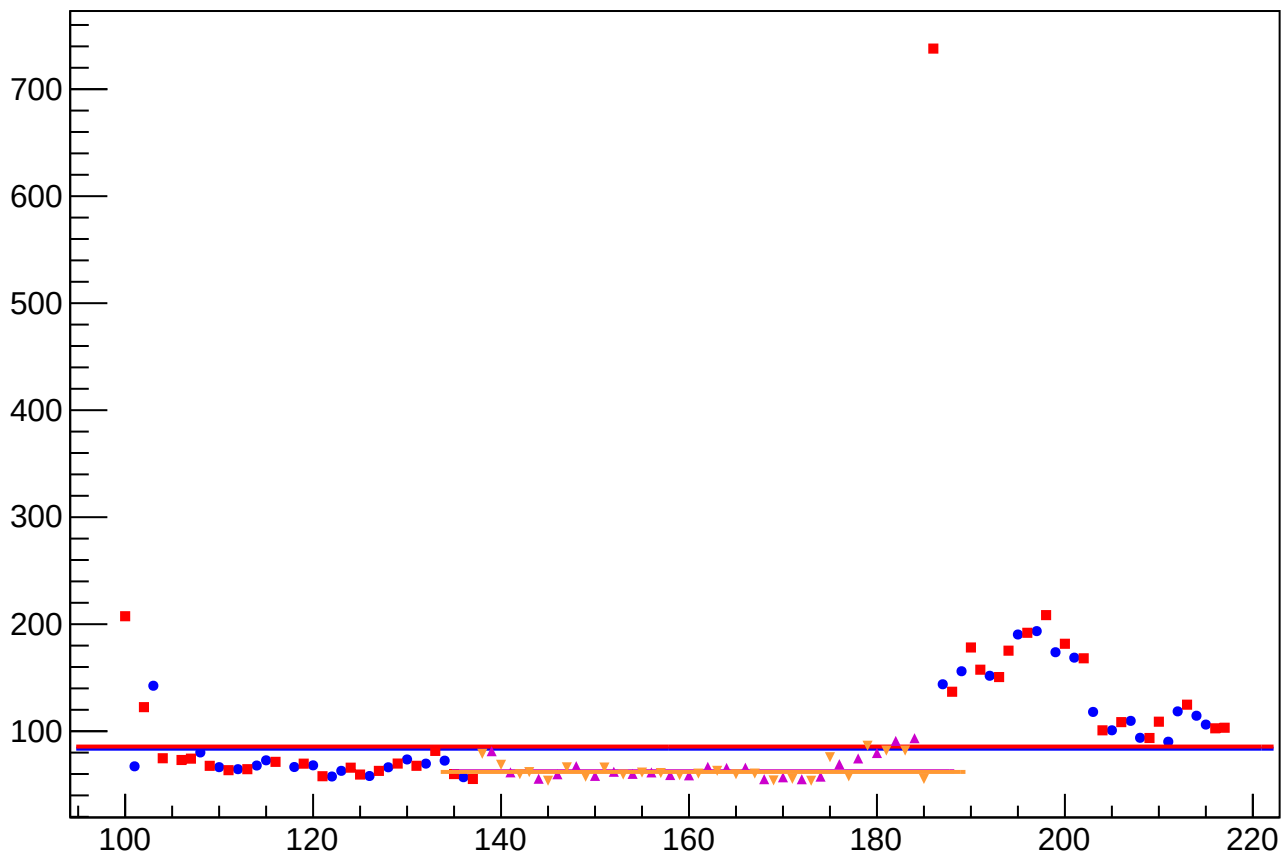
Right: 2.919 ± 15.315 χ^2/NDF : 77.2/67

In: 38.919 ± 12.437 χ^2/NDF : 57.6/54

Out: 33.927 ± 12.111 χ^2/NDF : 83.4/60

All: 36.357 ± 8.677 χ^2/NDF : 141.1/115

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 83.662 $\pm$ 0.015 χ^2 /NDF: 4337284.0/31

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 85.645 $\pm$ 0.015 χ^2 /NDF: 5317799.9/35

Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47

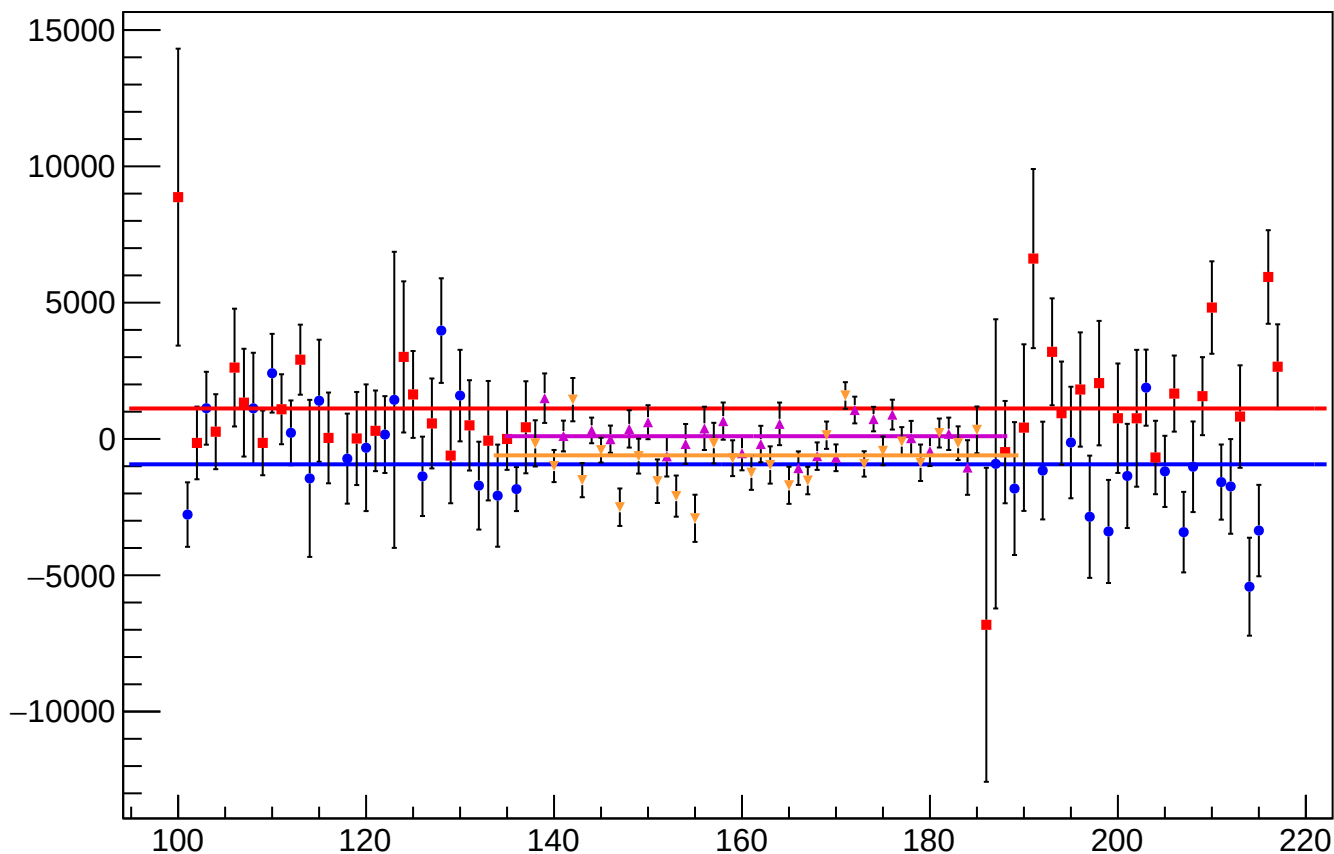
Right: 84.656 $\pm$ 0.011 χ^2 /NDF: 9663469.6/67

In: 69.533 $\pm$ 0.009 χ^2 /NDF: 6178090.8/54

Out: 69.374 $\pm$ 0.009 χ^2 /NDF: 7570831.8/60

All: 69.451 $\pm$ 0.006 χ^2 /NDF: 13749090.0/115

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -930.600 ± 284.408 $\chi^2/\text{NDF}: 43.4/31$

Left Out: -601.486 ± 122.119 $\chi^2/\text{NDF}: 65.4/24$

Right Out: 1118.371 ± 283.789 $\chi^2/\text{NDF}: 33.9/35$

Left In: 100.548 ± 124.725 $\chi^2/\text{NDF}: 25.5/22$

Left: -257.880 ± 87.258 $\chi^2/\text{NDF}: 107.0/47$

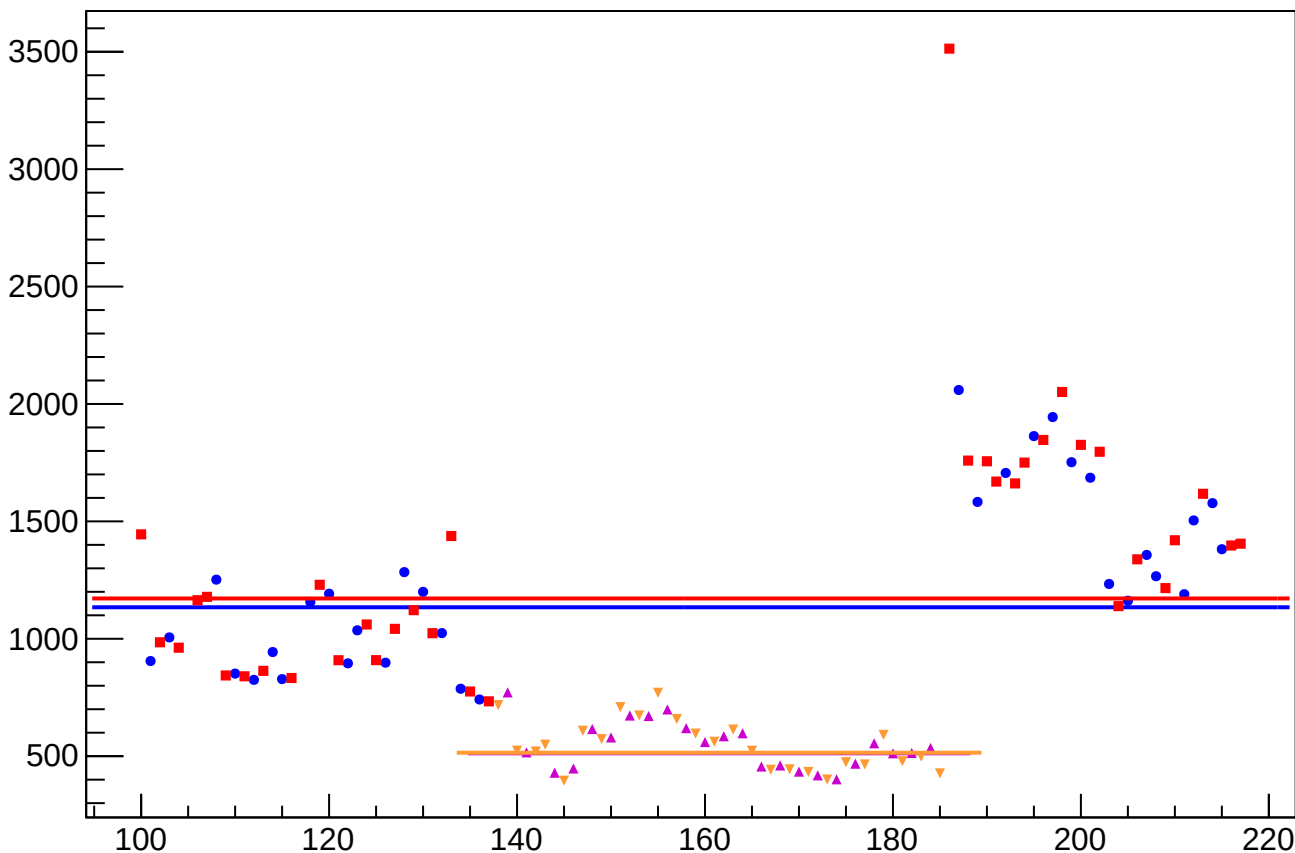
Right: 96.120 ± 200.888 $\chi^2/\text{NDF}: 103.3/67$

In: -65.774 ± 114.224 $\chi^2/\text{NDF}: 79.9/54$

Out: -332.775 ± 112.174 $\chi^2/\text{NDF}: 130.3/60$

All: -201.692 ± 80.034 $\chi^2/\text{NDF}: 212.9/115$

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1134.147+/-0.201 χ^2/NDF : 2592385.0/31

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1171.675+/-0.201 χ^2/NDF : 3200665.9/35

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

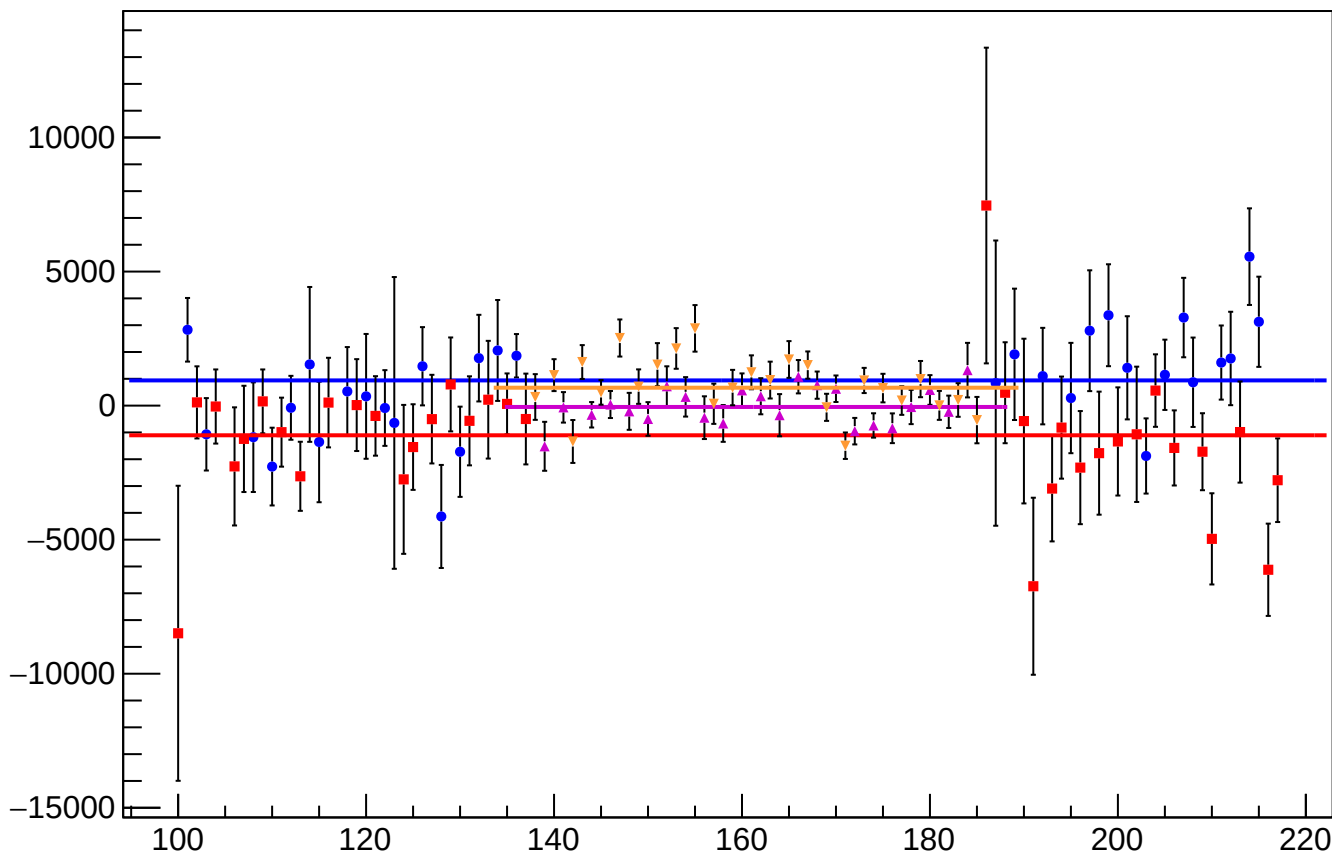
Right: 1152.952+/-0.142 χ^2/NDF : 5810499.9/67

In: 612.518+/-0.081 χ^2/NDF : 11655287.3/54

Out: 617.394+/-0.079 χ^2/NDF : 13437930.0/60

All: 615.000+/-0.057 χ^2/NDF : 25095072.9/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 940.292 $\pm$ 285.449 χ^2 /NDF: 42.7/31

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -1106.704 $\pm$ 284.931 χ^2 /NDF: 34.5/35

Left In: -50.079 $\pm$ 125.805 χ^2 /NDF:26.1/22

Left: 316.439 $\pm$ 88.002 χ^2 /NDF: 104.2/47

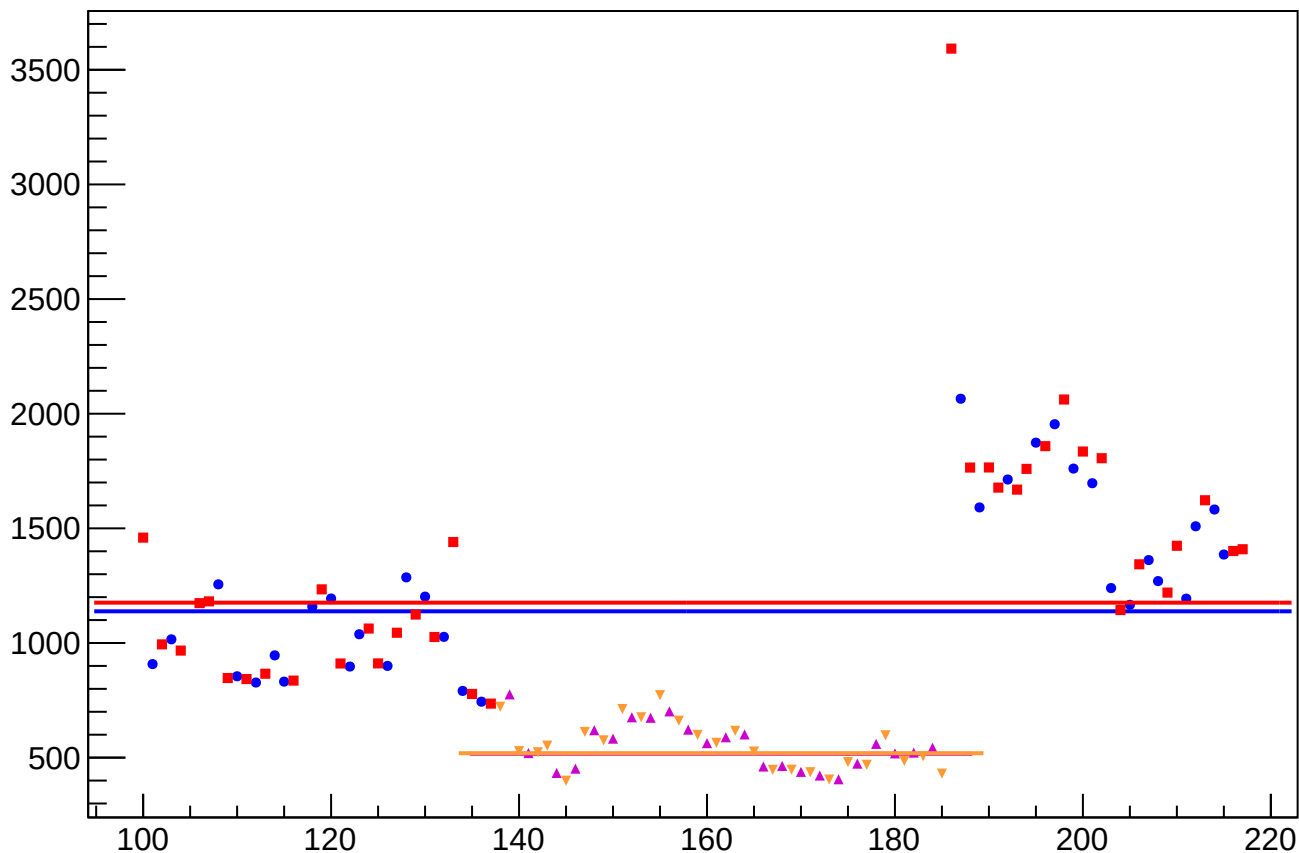
Right: -85.066 $\pm$ 201.660 χ^2 /NDF: 103.0/67

In: 111.002 $\pm$ 115.120 χ^2 /NDF:78.9/54

Out: 388.359 $\pm$ 113.040 χ^2 /NDF:128.7/60

All: 252.209 $\pm$ 80.657 χ^2 /NDF: 210.5/115

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1138.197 $\pm$ 0.202 χ^2 /NDF: 2598283.9/31

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1175.938 $\pm$ 0.201 χ^2 /NDF: 3213955.5/35

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

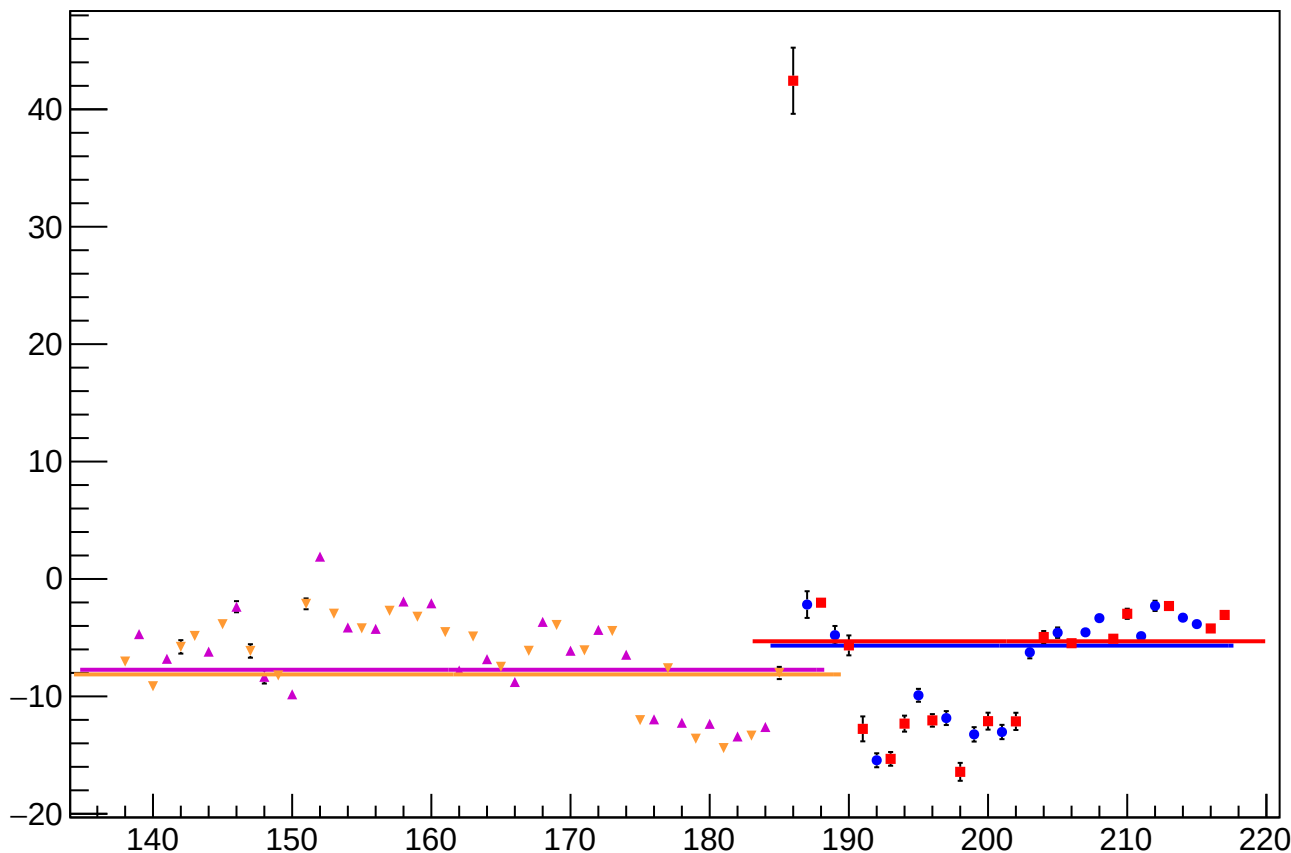
Right: 1157.102 $\pm$ 0.143 χ^2 /NDF: 5829752.4/67

In: 617.861 $\pm$ 0.081 χ^2 /NDF:11556181.2/54

Out: 622.611 $\pm$ 0.080 χ^2 /NDF:13337723.5/60

All: 620.280 $\pm$ 0.057 χ^2 /NDF: 24895637.9/11

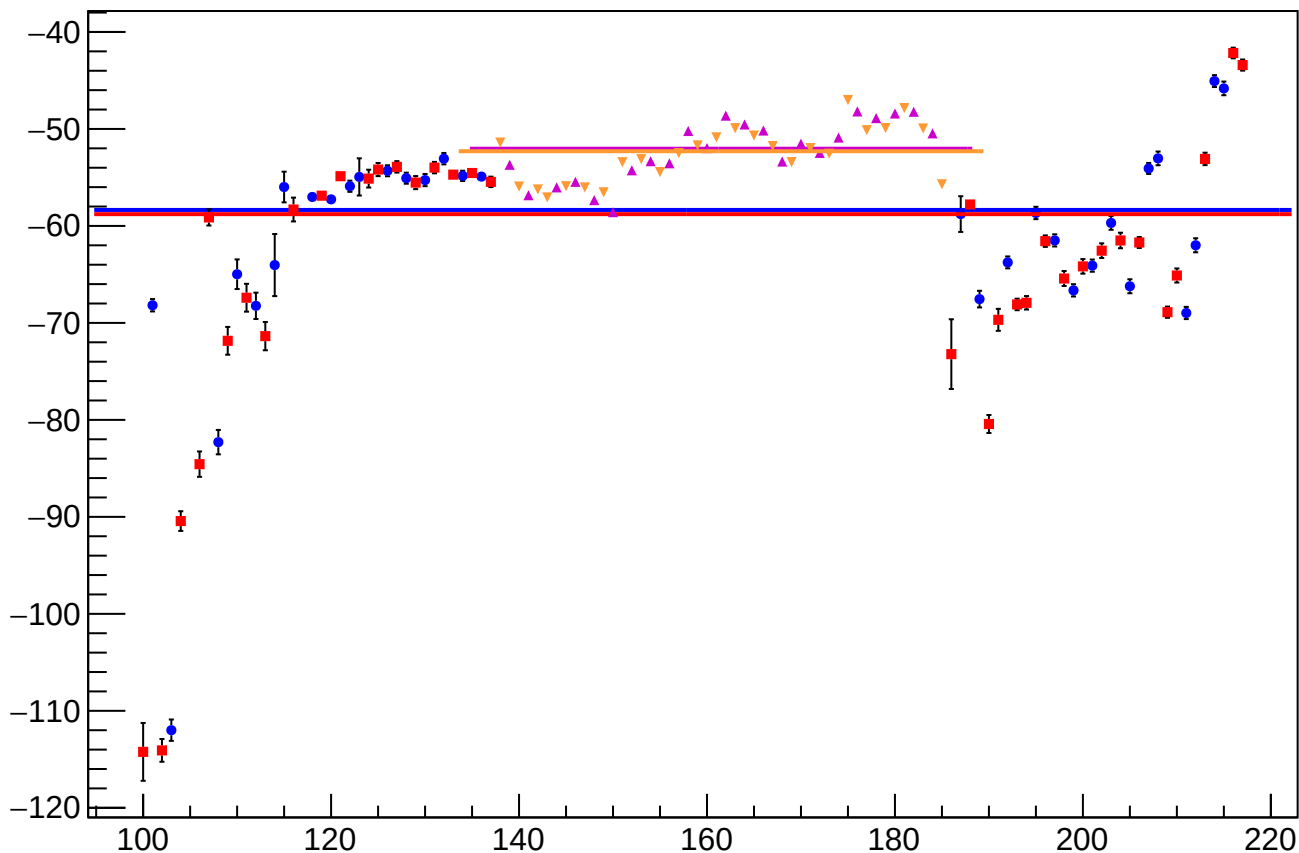
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.675 ± 0.117 χ^2/NDF : 956.8/14
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -5.306 ± 0.108 χ^2/NDF : 1574.3/16
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -5.475 ± 0.079 χ^2/NDF : 2536.4/31
 In: -7.204 ± 0.059 χ^2/NDF : 4905.2/37
 Out: -7.336 ± 0.057 χ^2/NDF : 5701.2/41
 All: -7.272 ± 0.041 χ^2/NDF : 10609.0/79

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.351 ± 0.111 χ^2/NDF : 5292.8/31

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -58.786 ± 0.108 χ^2/NDF : 8139.8/35

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

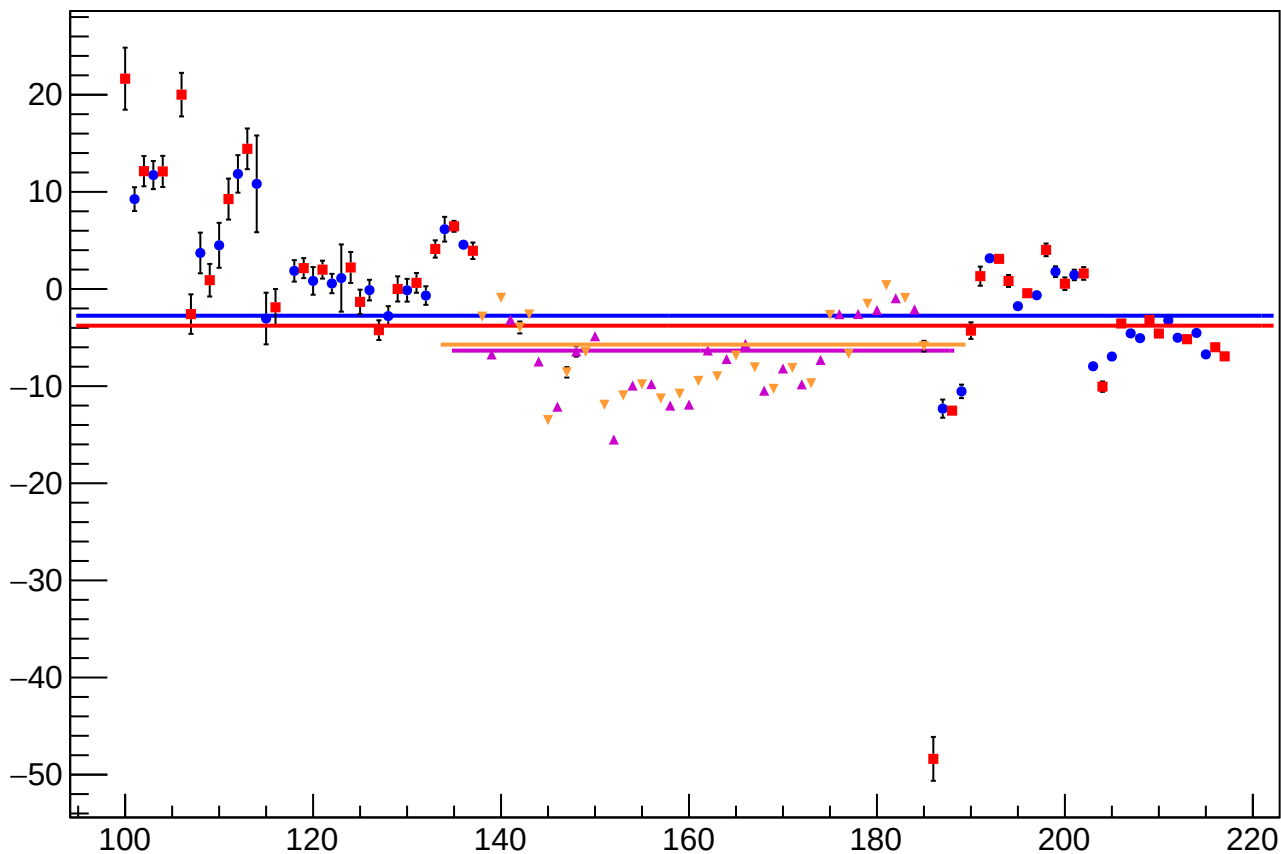
Right: -58.575 ± 0.077 χ^2/NDF : 13440.5/67

In: -53.362 ± 0.051 χ^2/NDF : 11031.8/54

Out: -53.641 ± 0.049 χ^2/NDF : 13673.4/60

All: -53.506 ± 0.035 χ^2/NDF : 24720.8/115

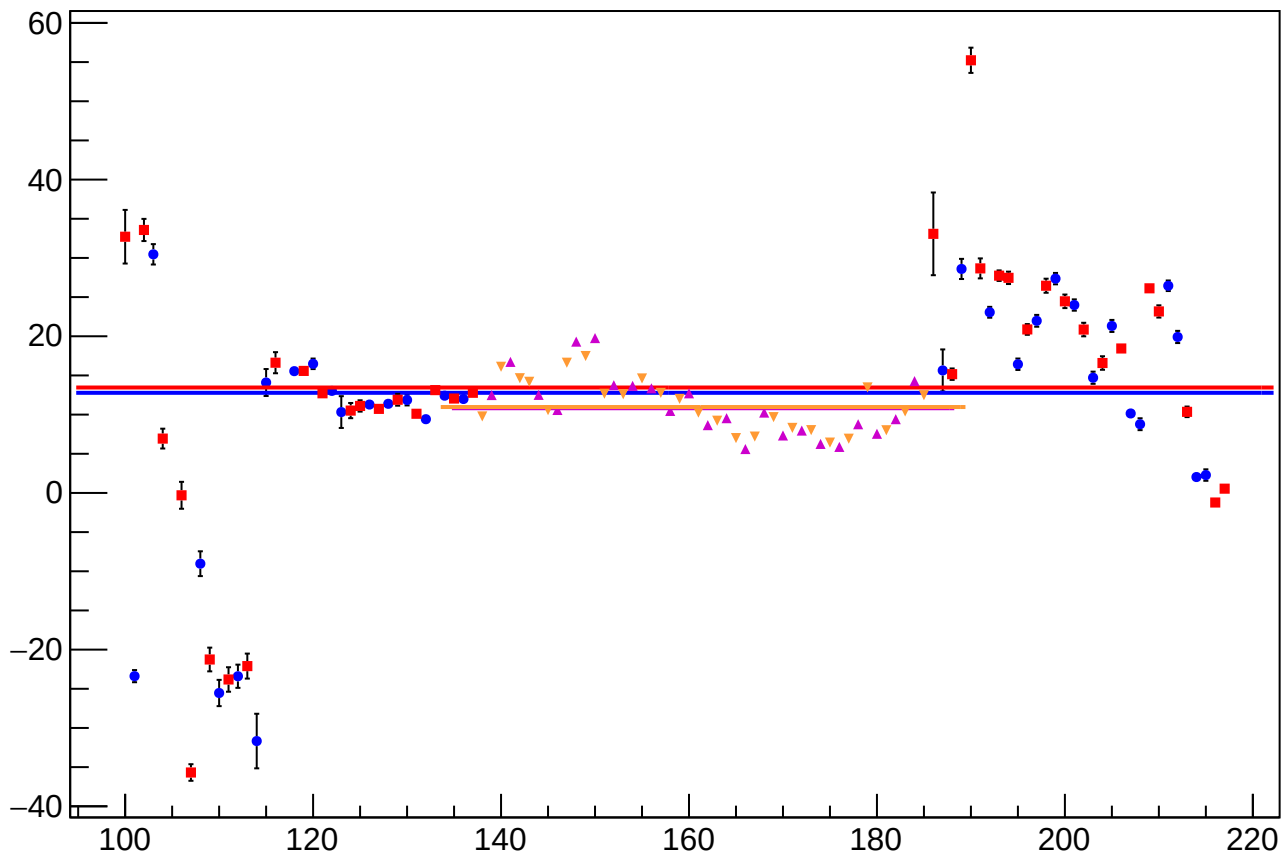
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.749 ± 0.106 $\chi^2/\text{NDF}: 1623.5/31$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -3.775 ± 0.099 $\chi^2/\text{NDF}: 3406.9/35$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -3.295 ± 0.072 $\chi^2/\text{NDF}: 5080.3/67$
 In: -5.280 ± 0.058 $\chi^2/\text{NDF}: 5819.7/54$
 Out: -5.105 ± 0.056 $\chi^2/\text{NDF}: 7652.8/60$
 All: -5.190 ± 0.040 $\chi^2/\text{NDF}: 13477.2/115$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.782 $\pm$ 0.123 χ^2 /NDF: 6291.6/31

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.459 $\pm$ 0.121 χ^2 /NDF: 8156.0/35

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

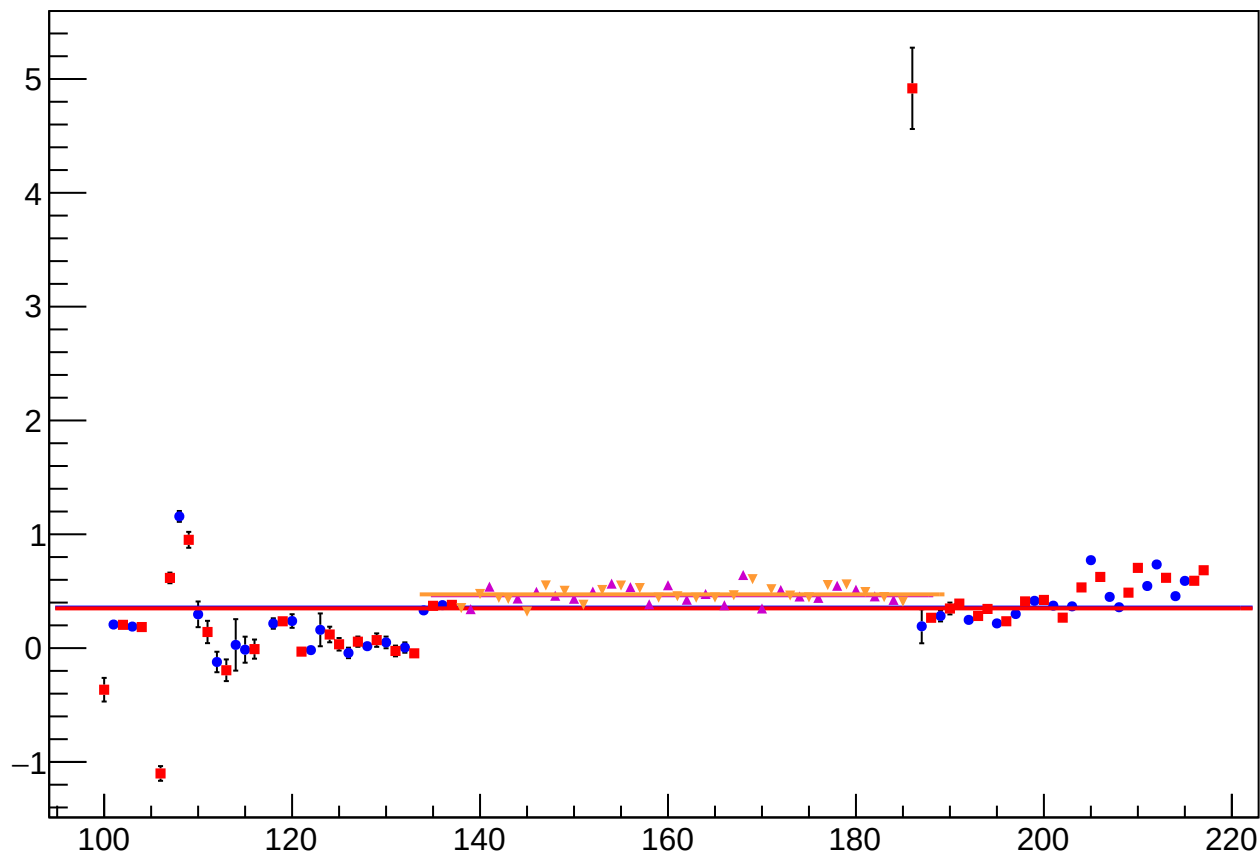
Right: 13.126 $\pm$ 0.086 χ^2 /NDF: 14462.9/67

In: 11.224 $\pm$ 0.056 χ^2 /NDF: 10041.3/54

Out: 11.476 $\pm$ 0.055 χ^2 /NDF: 11130.4/60

All: 11.353 $\pm$ 0.039 χ^2 /NDF: 21182.1/115

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.356 ± 0.005 $\chi^2/\text{NDF}: 1127.0/31$

Left Out: 0.472 ± 0.003 $\chi^2/\text{NDF}: 519.0/24$

Right Out: 0.349 ± 0.005 $\chi^2/\text{NDF}: 1878.8/35$

Left In: 0.464 ± 0.003 $\chi^2/\text{NDF}: 733.1/22$

Left: 0.468 ± 0.002 $\chi^2/\text{NDF}: 1256.2/47$

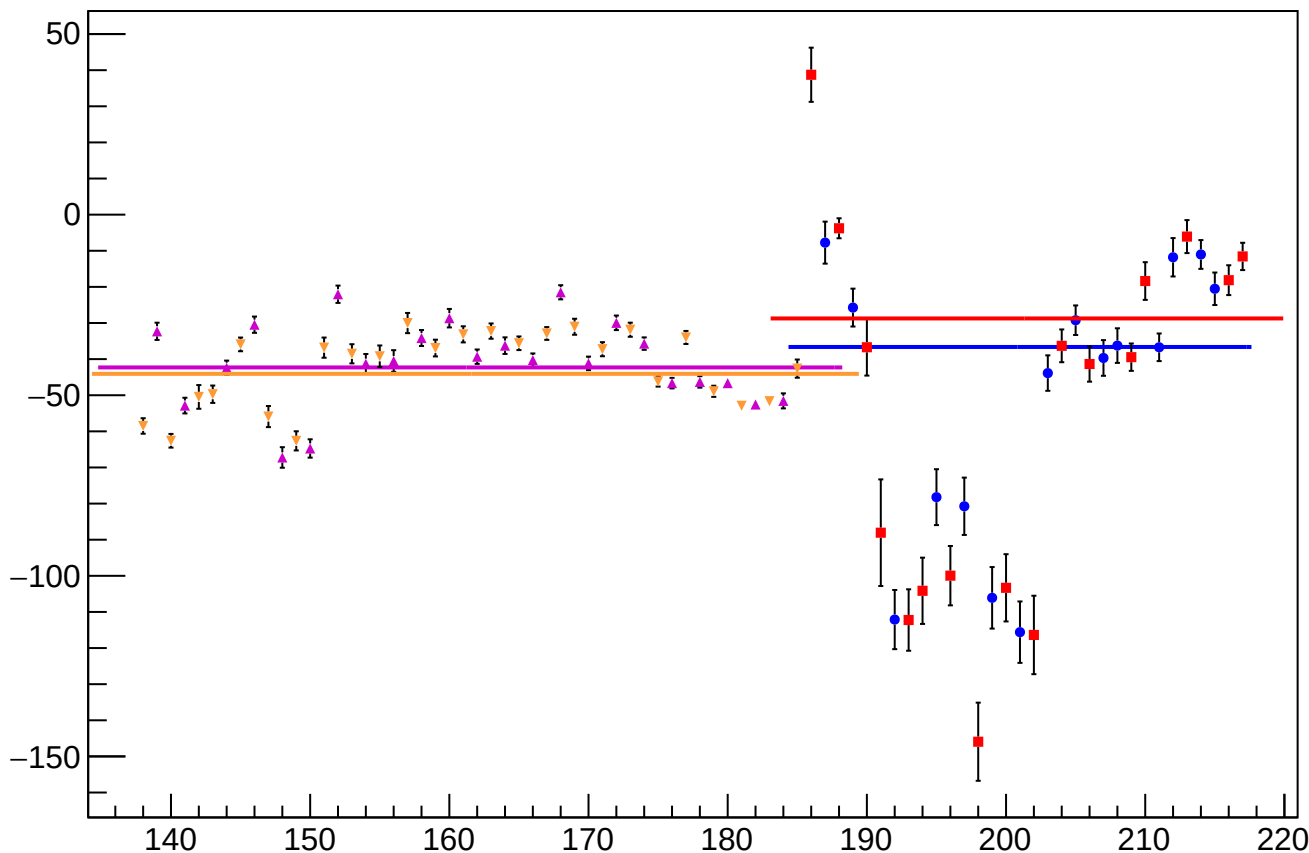
Right: 0.353 ± 0.004 $\chi^2/\text{NDF}: 3006.7/67$

In: 0.442 ± 0.002 $\chi^2/\text{NDF}: 2176.1/54$

Out: 0.447 ± 0.002 $\chi^2/\text{NDF}: 2809.4/60$

All: 0.444 ± 0.002 $\chi^2/\text{NDF}: 4987.7/115$

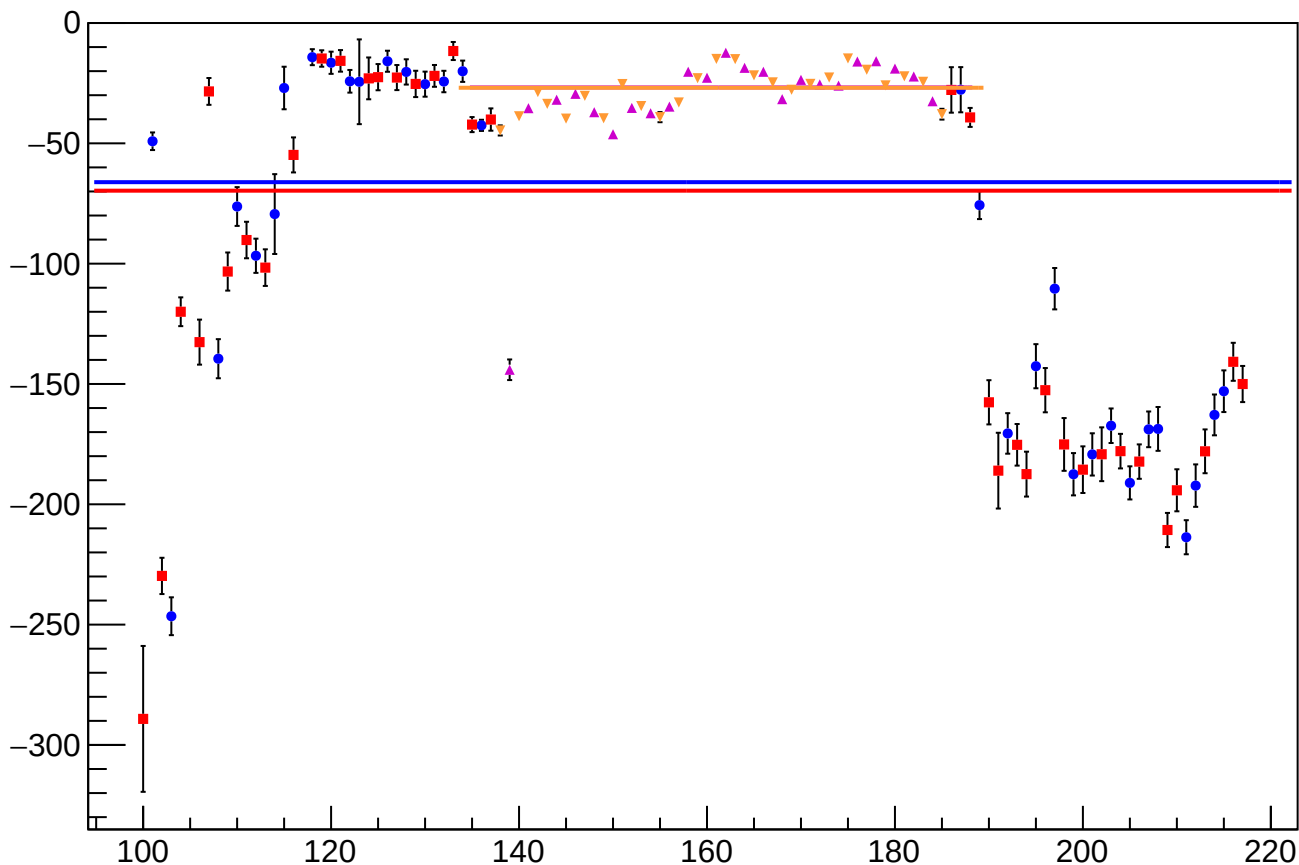
reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.636 $\pm$ 1.357 χ^2/NDF : 408.2/14
 Left Out: -44.077 $\pm$ 0.389 χ^2/NDF : 632.6/24
 Right Out: -28.739 $\pm$ 1.278 χ^2/NDF : 738.5/16
 Left In: -42.304 $\pm$ 0.399 χ^2/NDF : 640.6/22

Left: -43.214 $\pm$ 0.278 χ^2/NDF : 1283.3/47
 Right: -32.452 $\pm$ 0.930 χ^2/NDF : 1164.7/31
 In: -41.853 $\pm$ 0.383 χ^2/NDF : 1064.9/37
 Out: -42.780 $\pm$ 0.372 χ^2/NDF : 1502.8/41
 All: -42.330 $\pm$ 0.267 χ^2/NDF : 2570.8/79

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -66.135 ± 1.003 $\chi^2/\text{NDF}: 4027.7/31$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -69.673 ± 1.024 $\chi^2/\text{NDF}: 4201.2/35$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

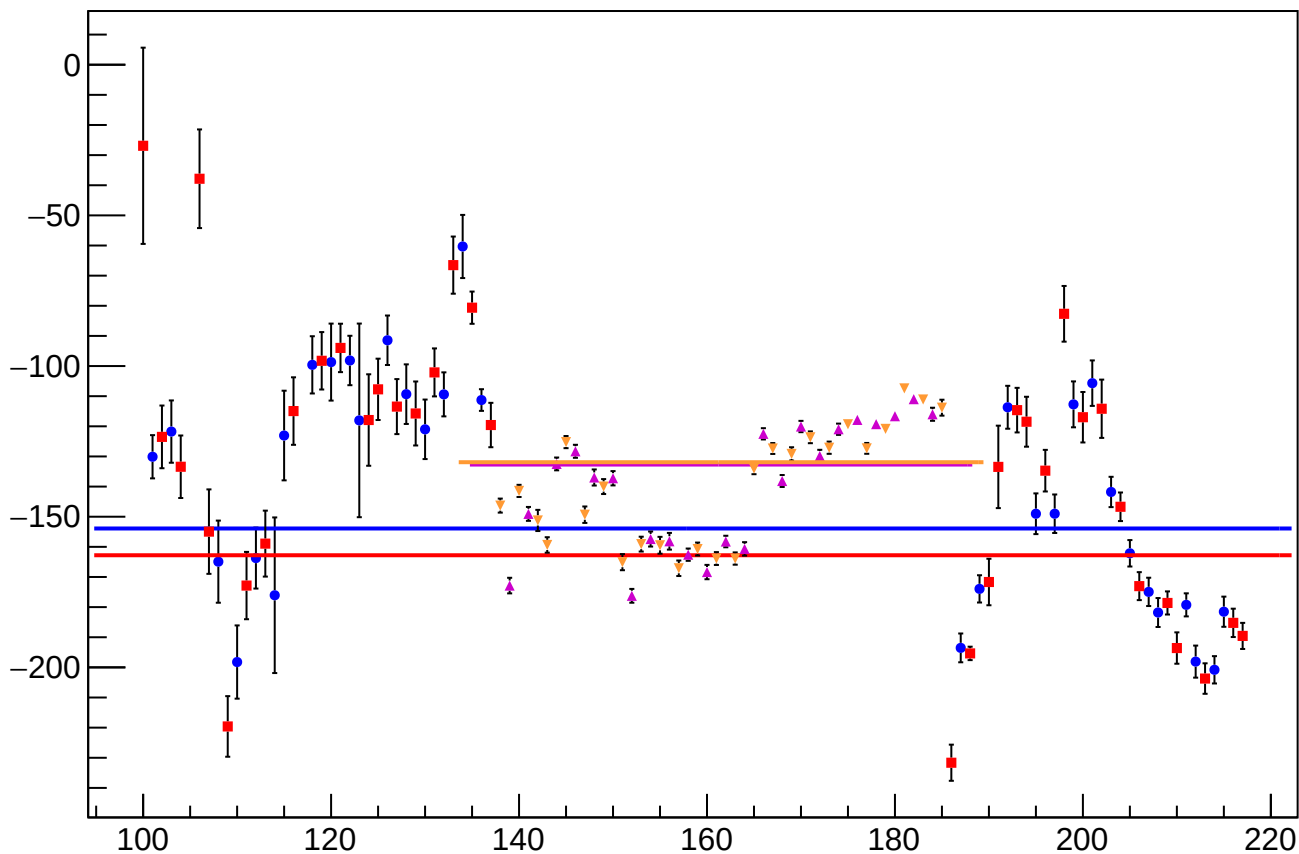
Right: -67.867 ± 0.717 $\chi^2/\text{NDF}: 8235.0/67$

In: -30.541 ± 0.310 $\chi^2/\text{NDF}: 6814.8/54$

Out: -30.627 ± 0.302 $\chi^2/\text{NDF}: 6424.9/60$

All: -30.585 ± 0.216 $\chi^2/\text{NDF}: 13239.7/115$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -153.908 ± 1.121 χ^2/NDF : 991.1/31

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -162.789 ± 1.067 χ^2/NDF : 1550.9/35

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

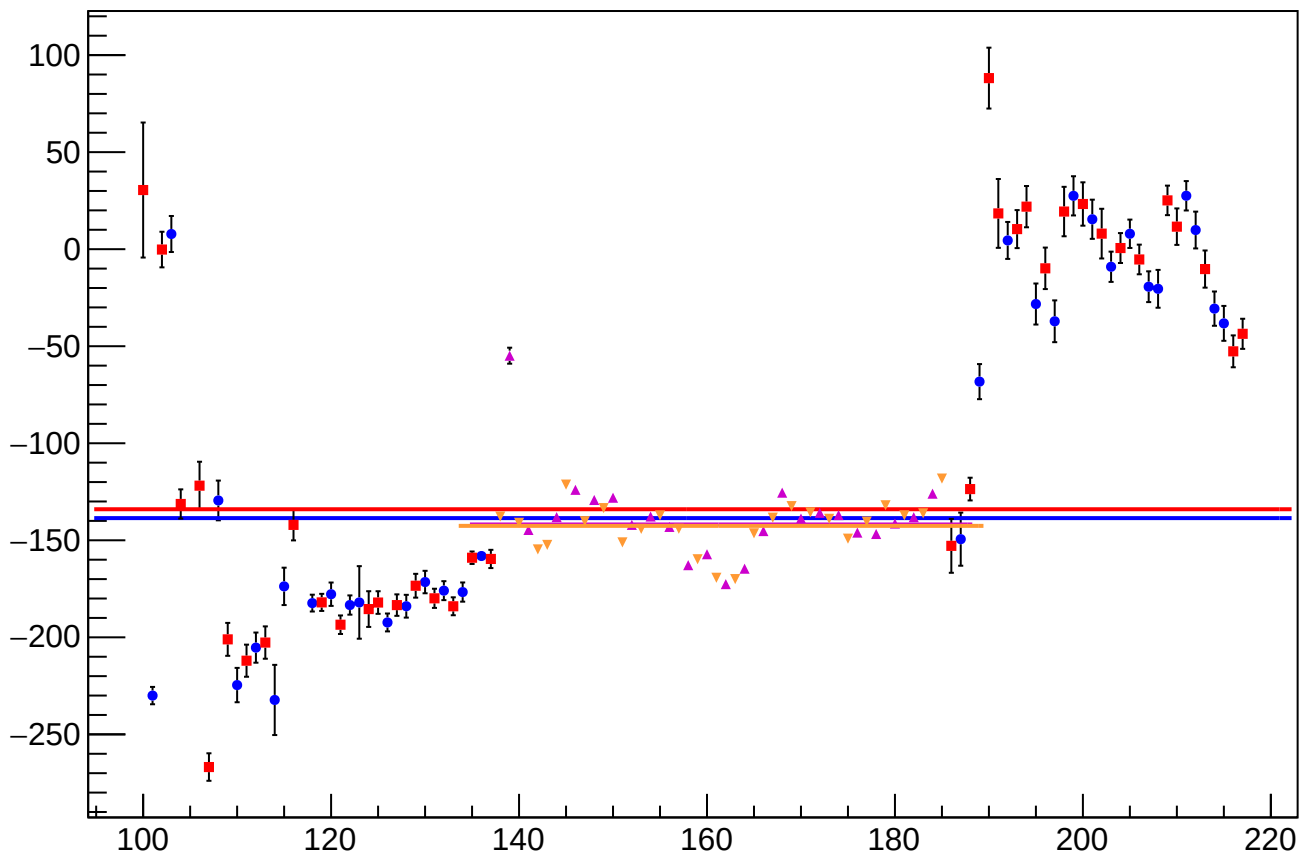
Right: -158.569 ± 0.773 χ^2/NDF : 2575.0/67

In: -135.081 ± 0.376 χ^2/NDF : 3789.4/54

Out: -135.578 ± 0.367 χ^2/NDF : 4728.9/60

All: -135.335 ± 0.263 χ^2/NDF : 8519.1/115

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -138.571 $\pm$ 1.123 χ^2 /NDF: 4562.6/31

Left Out: -142.564 $\pm$ 0.354 χ^2 /NDF:1147.7/24

Right Out: -134.000 $\pm$ 1.165 χ^2 /NDF: 4576.3/35

Left In: -141.856 $\pm$ 0.364 χ^2 /NDF:1544.3/22

Left: -142.220 $\pm$ 0.254 χ^2 /NDF: 2693.9/47

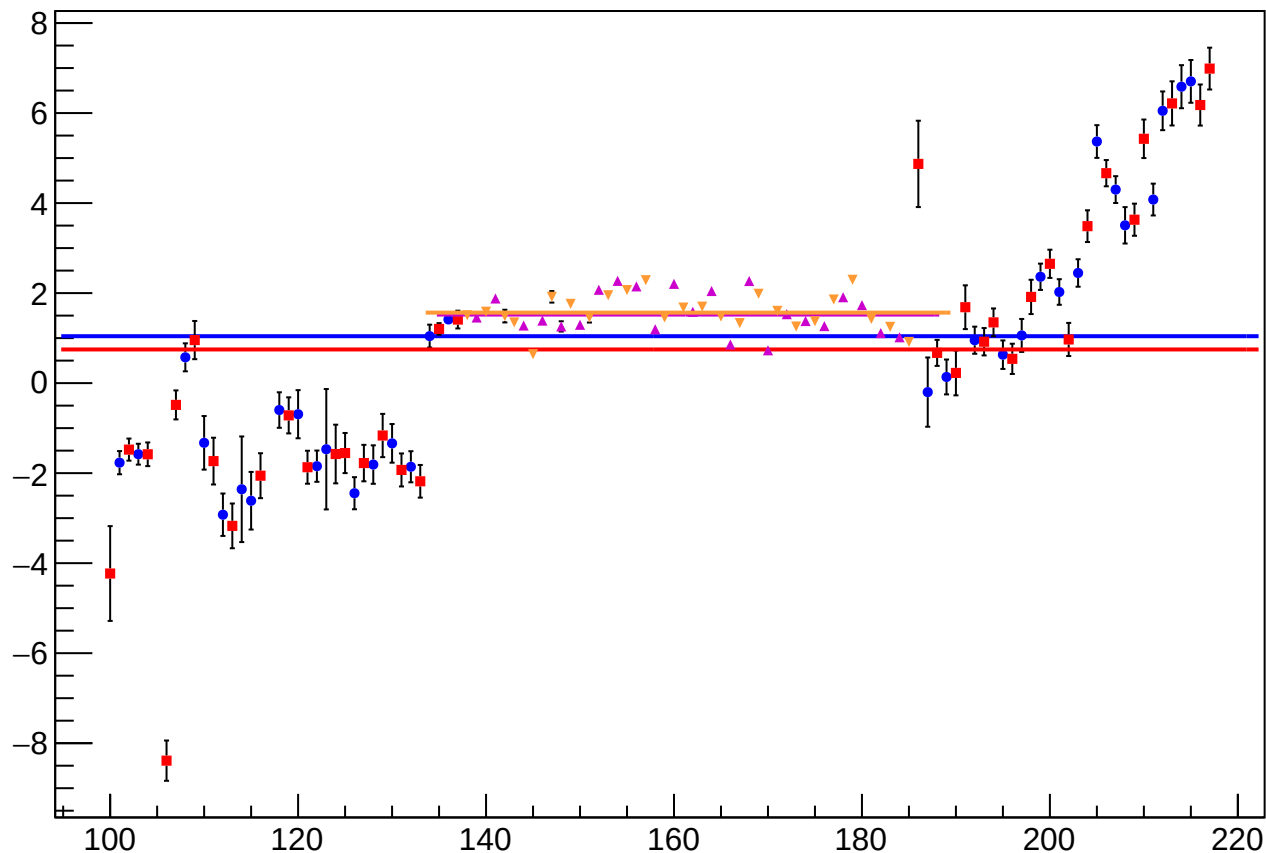
Right: -136.370 $\pm$ 0.809 χ^2 /NDF: 9146.9/67

In: -141.545 $\pm$ 0.346 χ^2 /NDF:6114.6/54

Out: -141.840 $\pm$ 0.339 χ^2 /NDF:5773.5/60

All: -141.696 $\pm$ 0.242 χ^2 /NDF: 11888.5/115

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.042 ± 0.054 χ^2/NDF : 1580.8/31

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.748 ± 0.056 χ^2/NDF : 1977.7/35

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

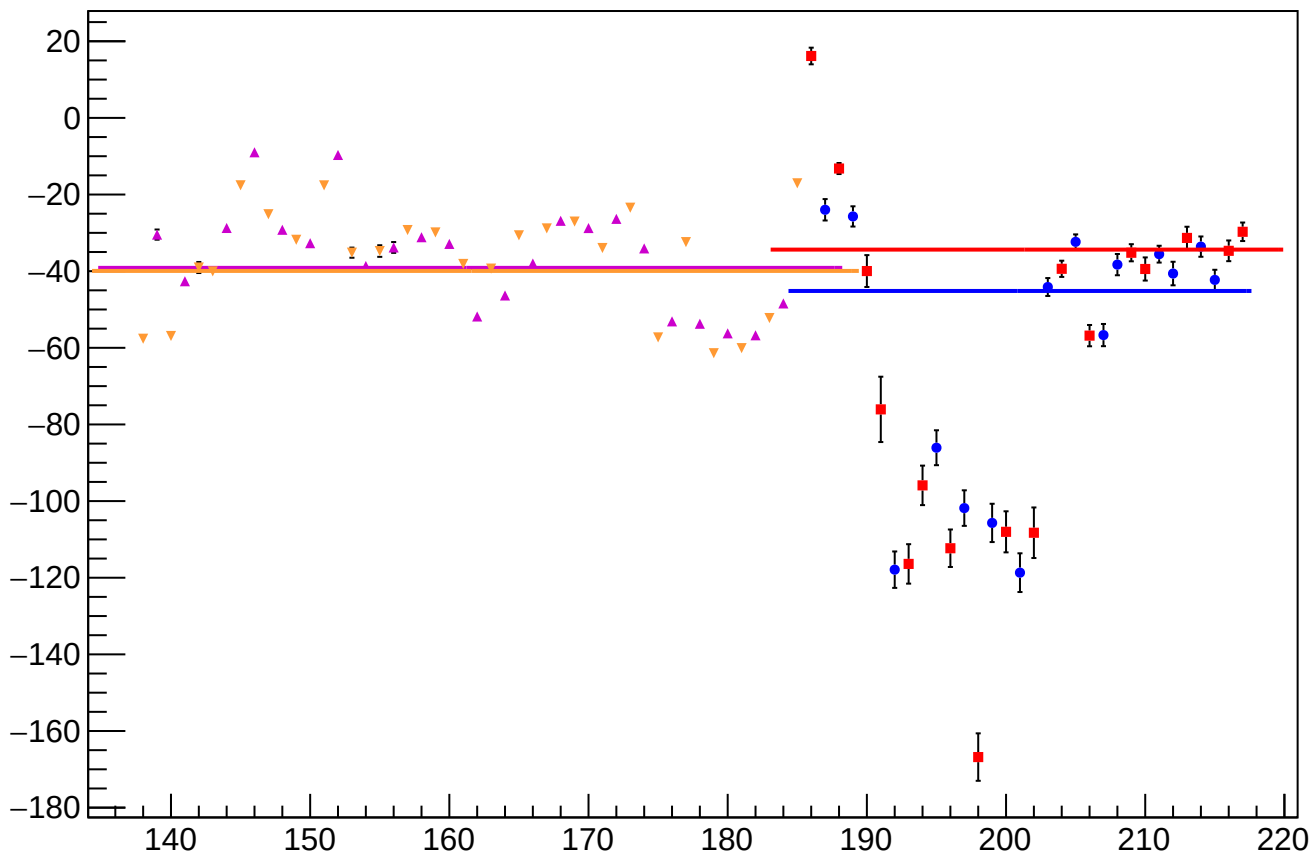
Right: 0.900 ± 0.039 χ^2/NDF : 3572.8/67

In: 1.482 ± 0.016 χ^2/NDF : 2391.3/54

Out: 1.503 ± 0.016 χ^2/NDF : 2717.5/60

All: 1.493 ± 0.011 χ^2/NDF : 5109.7/115

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



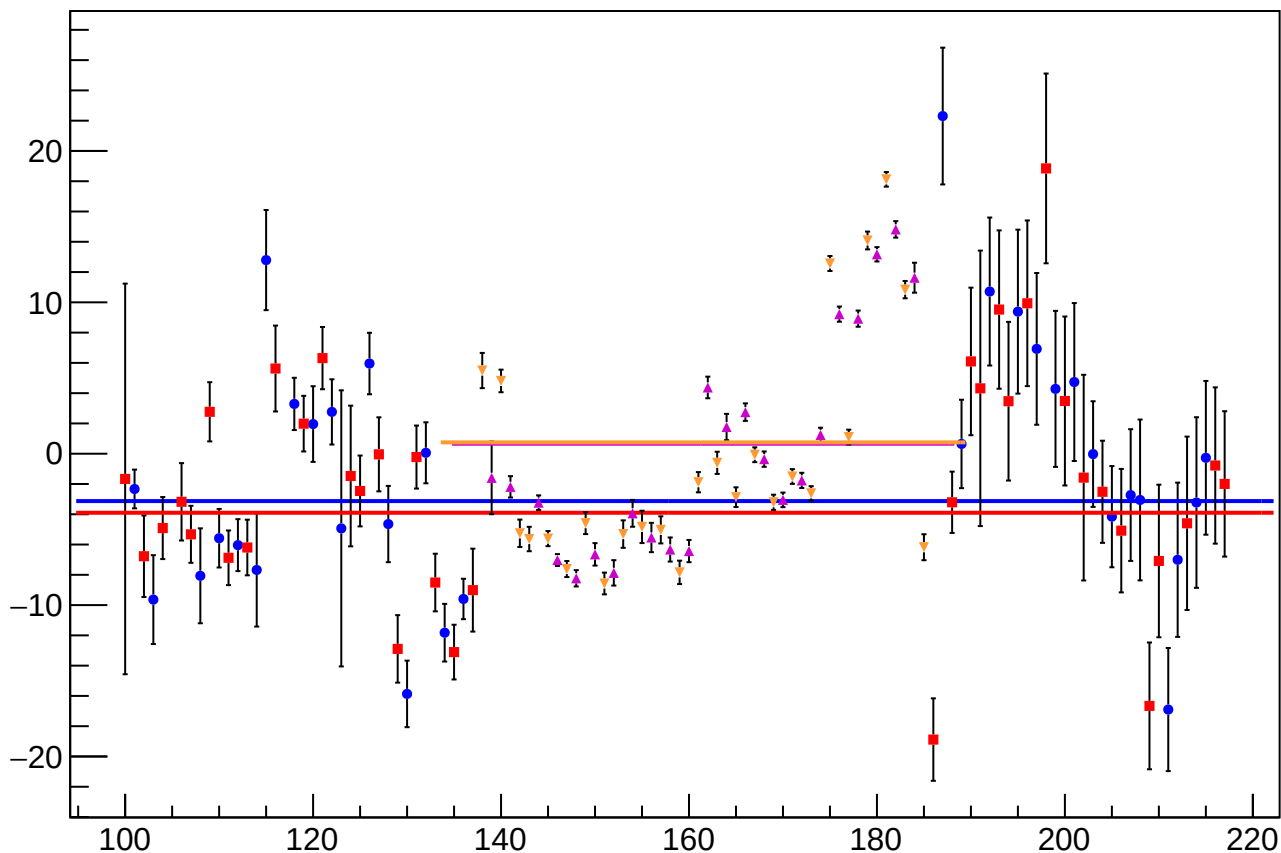
Right In: -45.164 ± 0.749 $\chi^2/\text{NDF}: 1040.9/14$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -34.372 ± 0.697 $\chi^2/\text{NDF}: 2283.4/16$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -39.386 ± 0.510 $\chi^2/\text{NDF}: 3435.6/31$

In: -39.384 ± 0.151 $\chi^2/\text{NDF}: 9637.6/37$
 Out: -39.679 ± 0.150 $\chi^2/\text{NDF}: 12150.6/41$

All: -39.533 ± 0.106 $\chi^2/\text{NDF}: 21790.2/79$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.130 ± 0.457 $\chi^2/\text{NDF}: 231.5/31$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.900 ± 0.454 $\chi^2/\text{NDF}: 197.9/35$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

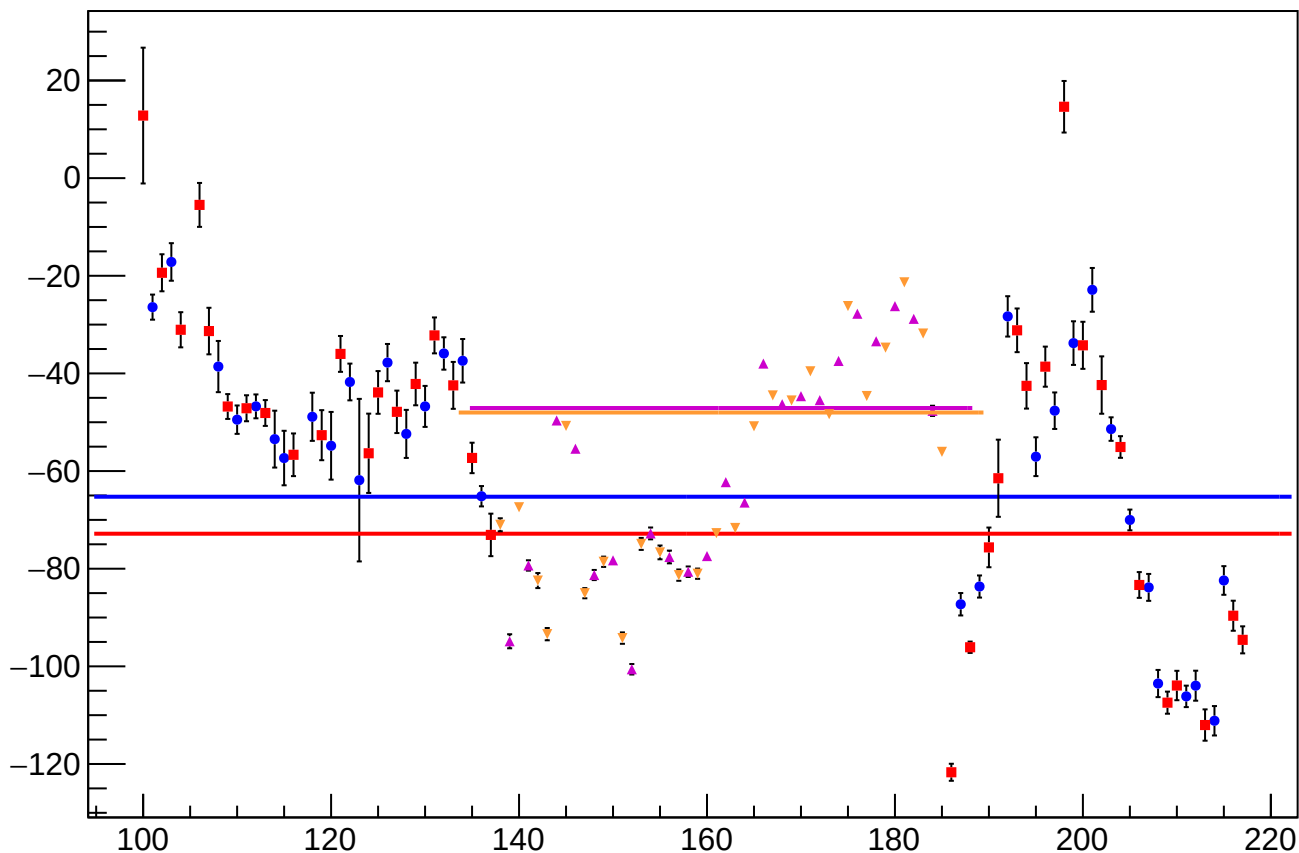
Right: -3.517 ± 0.322 $\chi^2/\text{NDF}: 430.9/67$

In: 0.398 ± 0.120 $\chi^2/\text{NDF}: 3633.5/54$

Out: 0.425 ± 0.120 $\chi^2/\text{NDF}: 4266.4/60$

All: 0.412 ± 0.085 $\chi^2/\text{NDF}: 7899.9/115$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.256 ± 0.564 χ^2/NDF : 2197.4/31

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -72.832 ± 0.521 χ^2/NDF : 3816.6/35

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

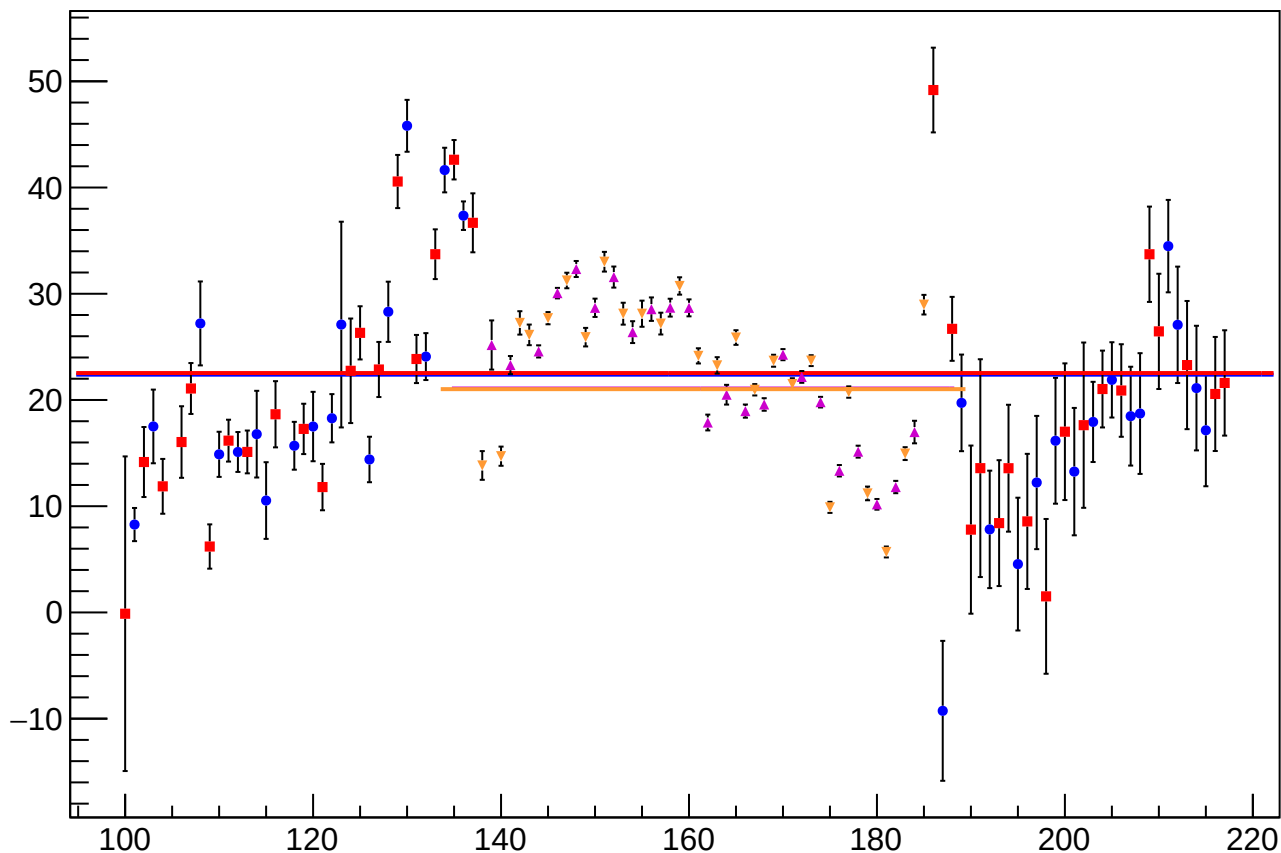
Right: -69.344 ± 0.382 χ^2/NDF : 6111.5/67

In: -48.368 ± 0.150 χ^2/NDF : 18678.7/54

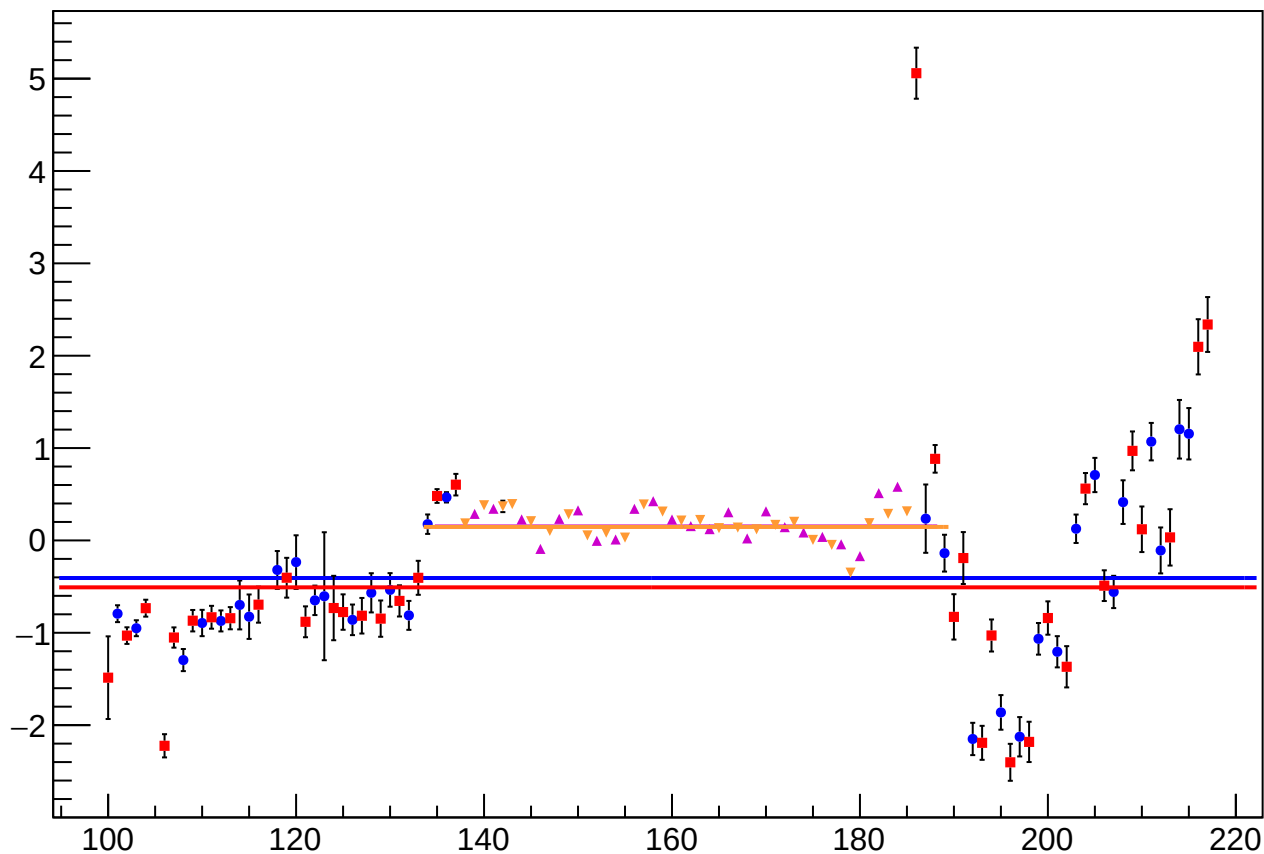
Out: -50.022 ± 0.148 χ^2/NDF : 22856.6/60

All: -49.203 ± 0.105 χ^2/NDF : 41596.9/115

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.407 ± 0.026 $\chi^2/\text{NDF}: 877.9/31$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.508 ± 0.026 $\chi^2/\text{NDF}: 1582.8/35$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

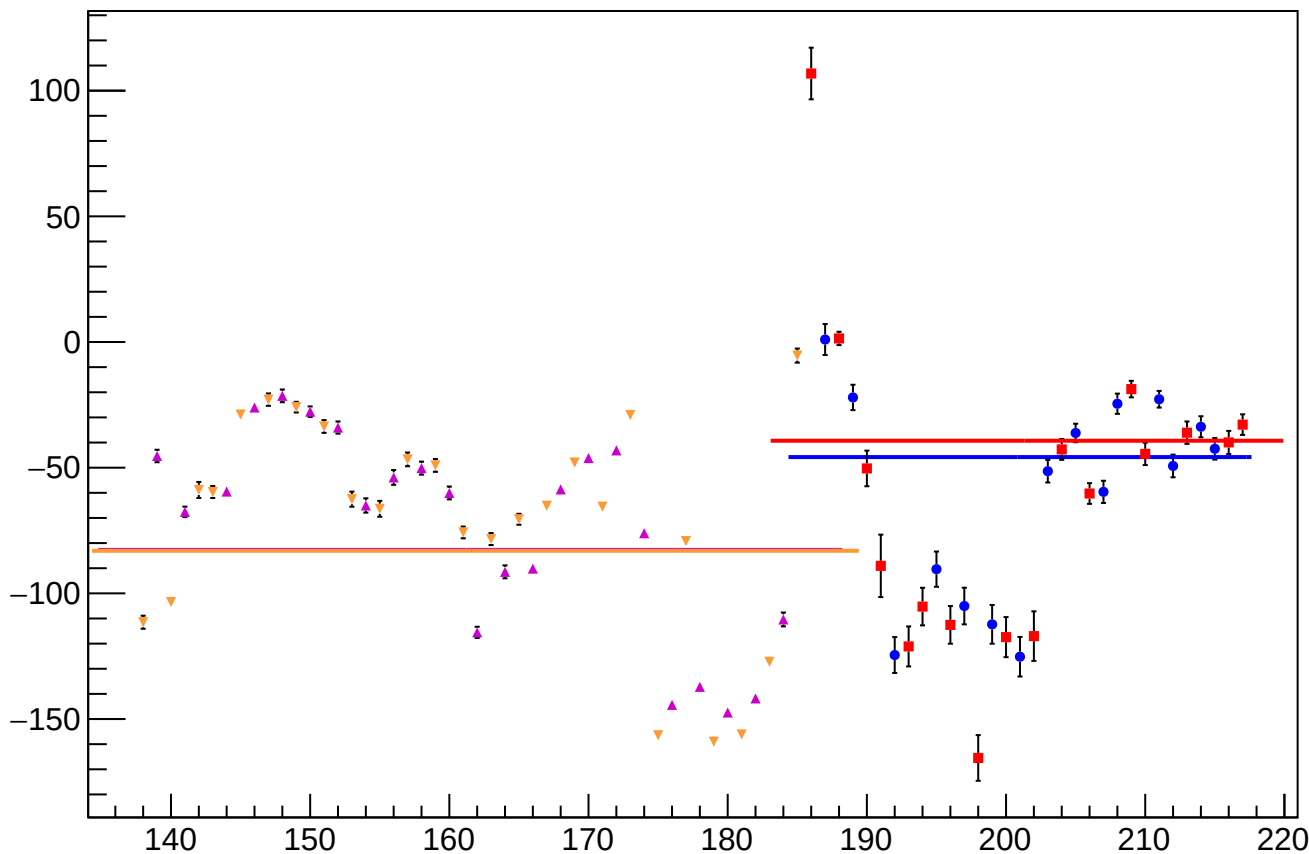
Right: -0.458 ± 0.018 $\chi^2/\text{NDF}: 2468.2/67$

In: 0.119 ± 0.006 $\chi^2/\text{NDF}: 2179.4/54$

Out: 0.110 ± 0.006 $\chi^2/\text{NDF}: 2791.9/60$

All: 0.114 ± 0.004 $\chi^2/\text{NDF}: 4972.6/115$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.777 ± 1.246 $\chi^2/\text{NDF}: 587.7/14$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -39.276 ± 1.208 $\chi^2/\text{NDF}: 1156.4/16$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

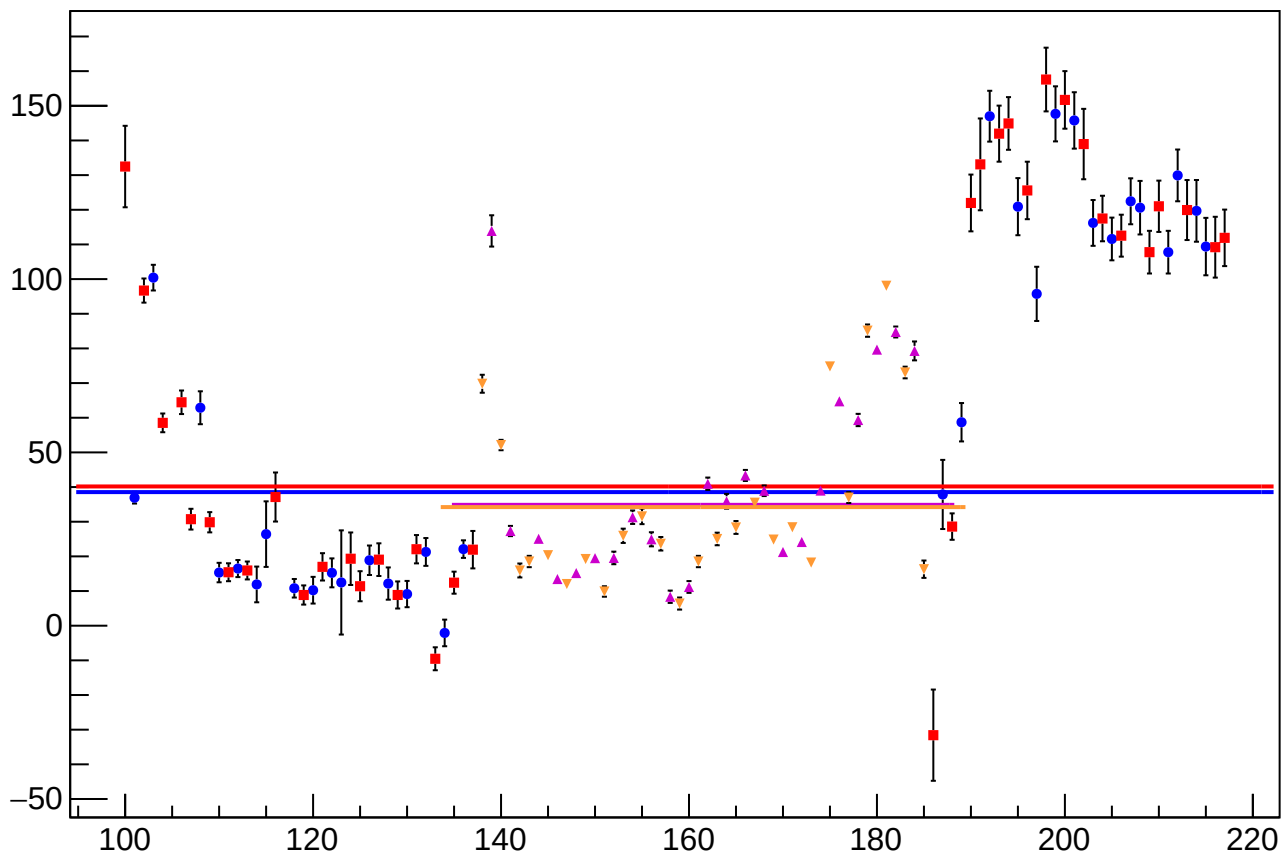
Right: -42.426 ± 0.867 $\chi^2/\text{NDF}: 1758.1/31$

In: -79.019 ± 0.394 $\chi^2/\text{NDF}: 12220.3/37$

Out: -78.616 ± 0.385 $\chi^2/\text{NDF}: 16154.5/41$

All: -78.813 ± 0.275 $\chi^2/\text{NDF}: 28375.4/79$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.544+/-0.742 χ^2/NDF : 2697.0/31

Left Out: 34.219+/-0.320 χ^2/NDF : 6192.6/24

Right Out: 40.175+/-0.738 χ^2/NDF : 3081.1/35

Left In: 34.870+/-0.329 χ^2/NDF : 4716.1/22

Left: 34.535+/-0.230 χ^2/NDF : 10910.7/47

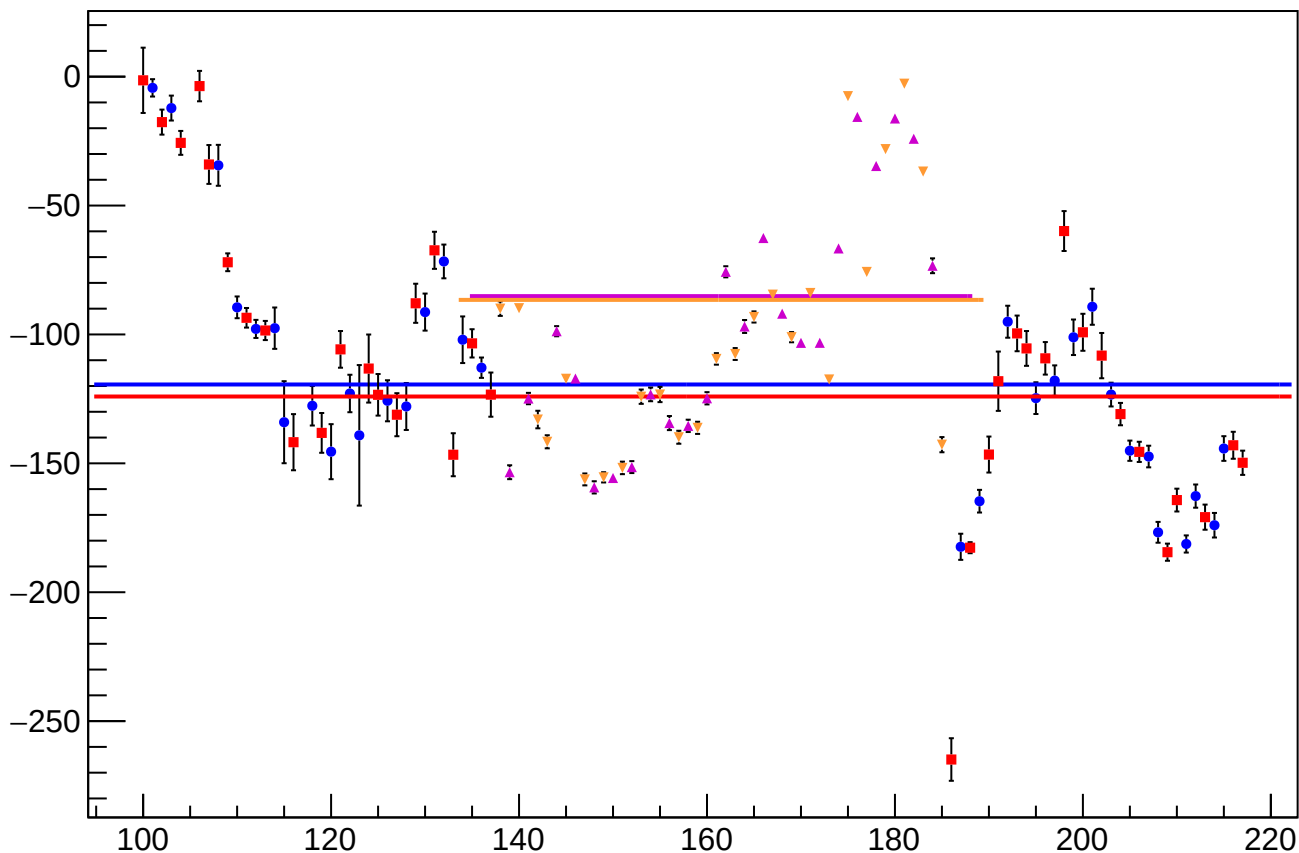
Right: 39.364+/-0.523 χ^2/NDF : 5780.5/67

In: 35.474+/-0.301 χ^2/NDF : 7433.7/54

Out: 35.163+/-0.294 χ^2/NDF : 9328.5/60

All: 35.315+/-0.210 χ^2/NDF : 16762.7/115

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -119.411+/-0.926 χ^2/NDF : 3141.8/31

Left Out: -86.595+/-0.408 χ^2/NDF :14515.7/24

Right Out: -124.077+/-0.875 χ^2/NDF : 3783.7/35

Left In: -85.134+/-0.415 χ^2/NDF :12841.3/22

Left: -85.876+/-0.291 χ^2/NDF : 27363.3/47

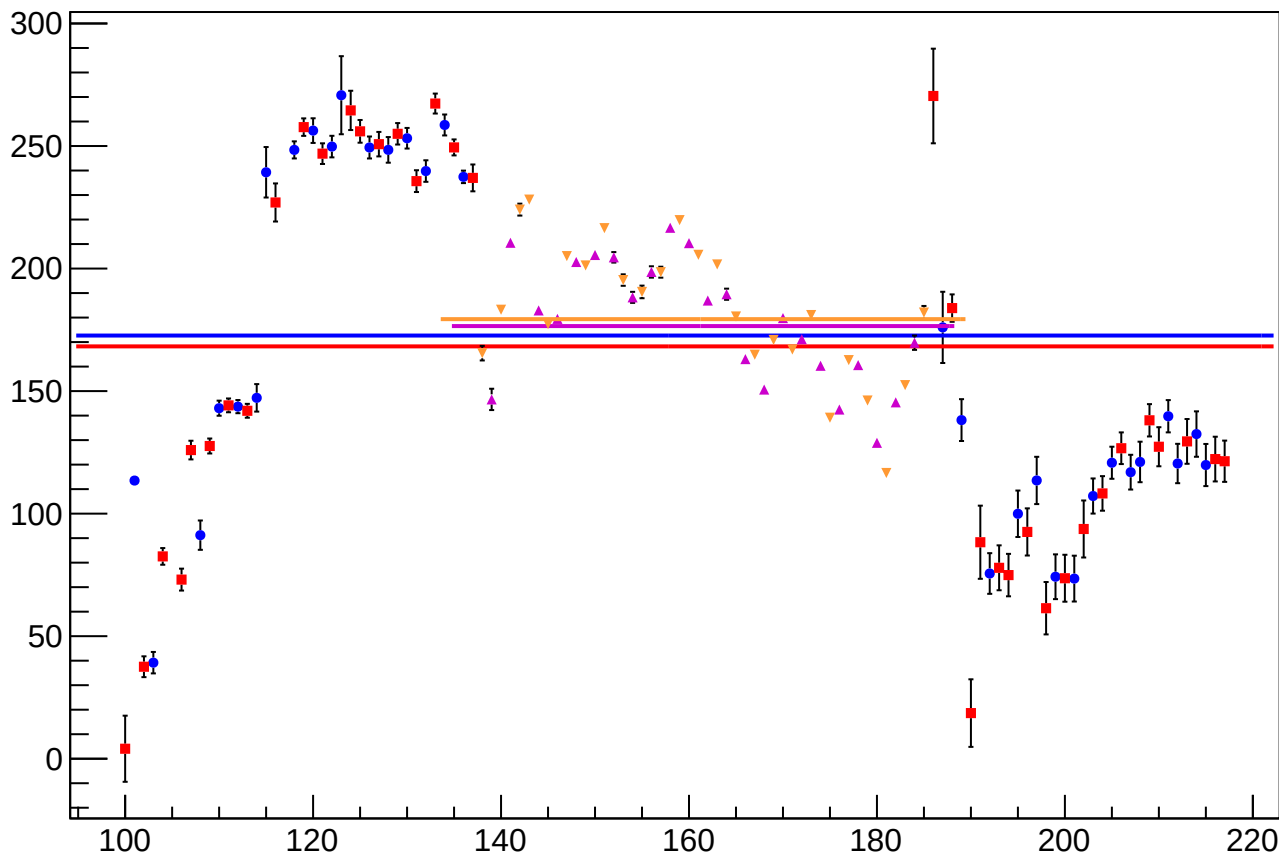
Right: -121.875+/-0.636 χ^2/NDF : 6938.9/67

In: -90.872+/-0.379 χ^2/NDF :17124.9/54

Out: -93.302+/-0.370 χ^2/NDF :19806.2/60

All: -92.115+/-0.265 χ^2/NDF : 36952.2/115

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 172.667 $\pm$ 0.845 χ^2 /NDF: 6304.9/31

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 168.244 $\pm$ 0.846 χ^2 /NDF: 7376.3/35

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF: 4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

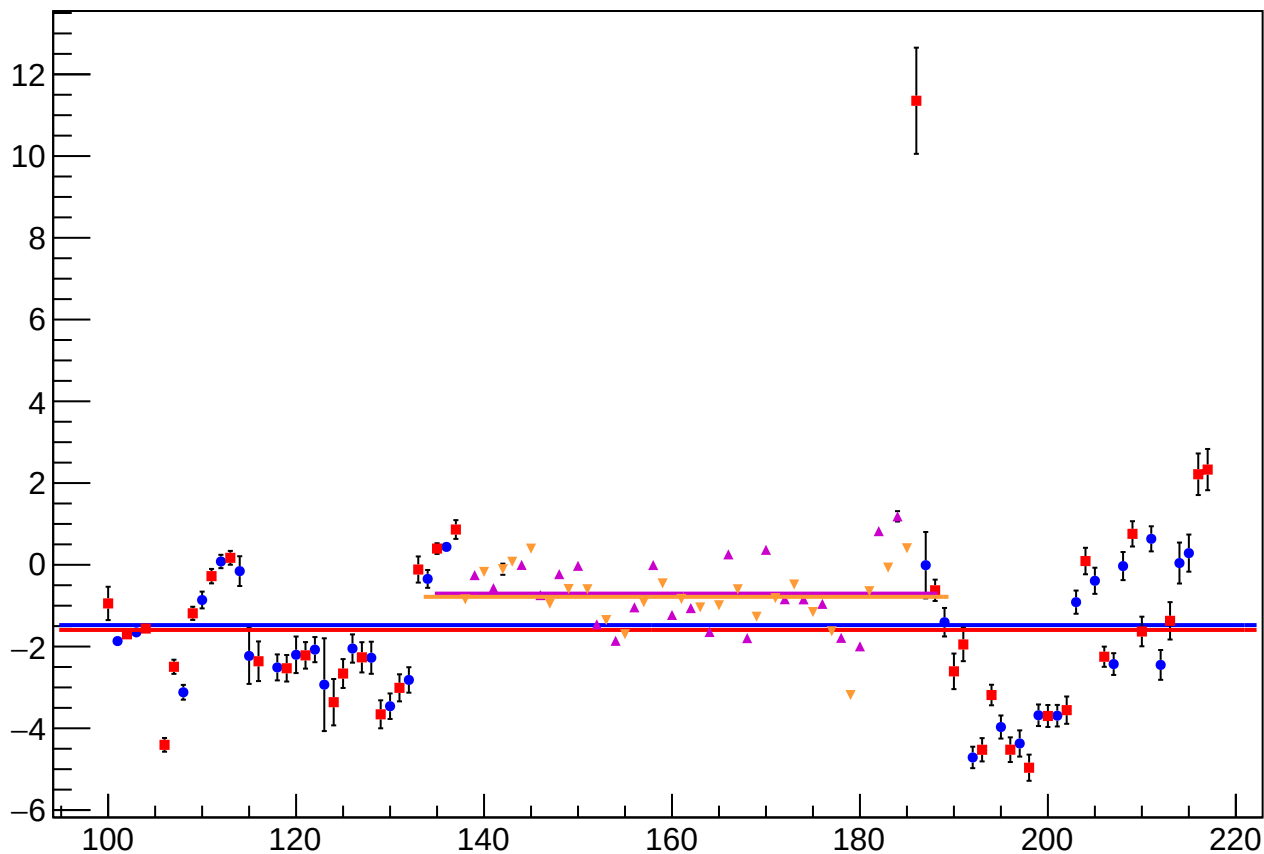
Right: 170.458 $\pm$ 0.598 χ^2 /NDF: 13694.8/67

In: 175.907 $\pm$ 0.340 χ^2 /NDF: 10748.4/54

Out: 177.640 $\pm$ 0.333 χ^2 /NDF: 13504.4/60

All: 176.792 $\pm$ 0.238 χ^2 /NDF: 24266.1/115

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.475 ± 0.042 $\chi^2/\text{NDF}: 1234.5/31$

Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$

Right Out: -1.594 ± 0.040 $\chi^2/\text{NDF}: 1714.5/35$

Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$

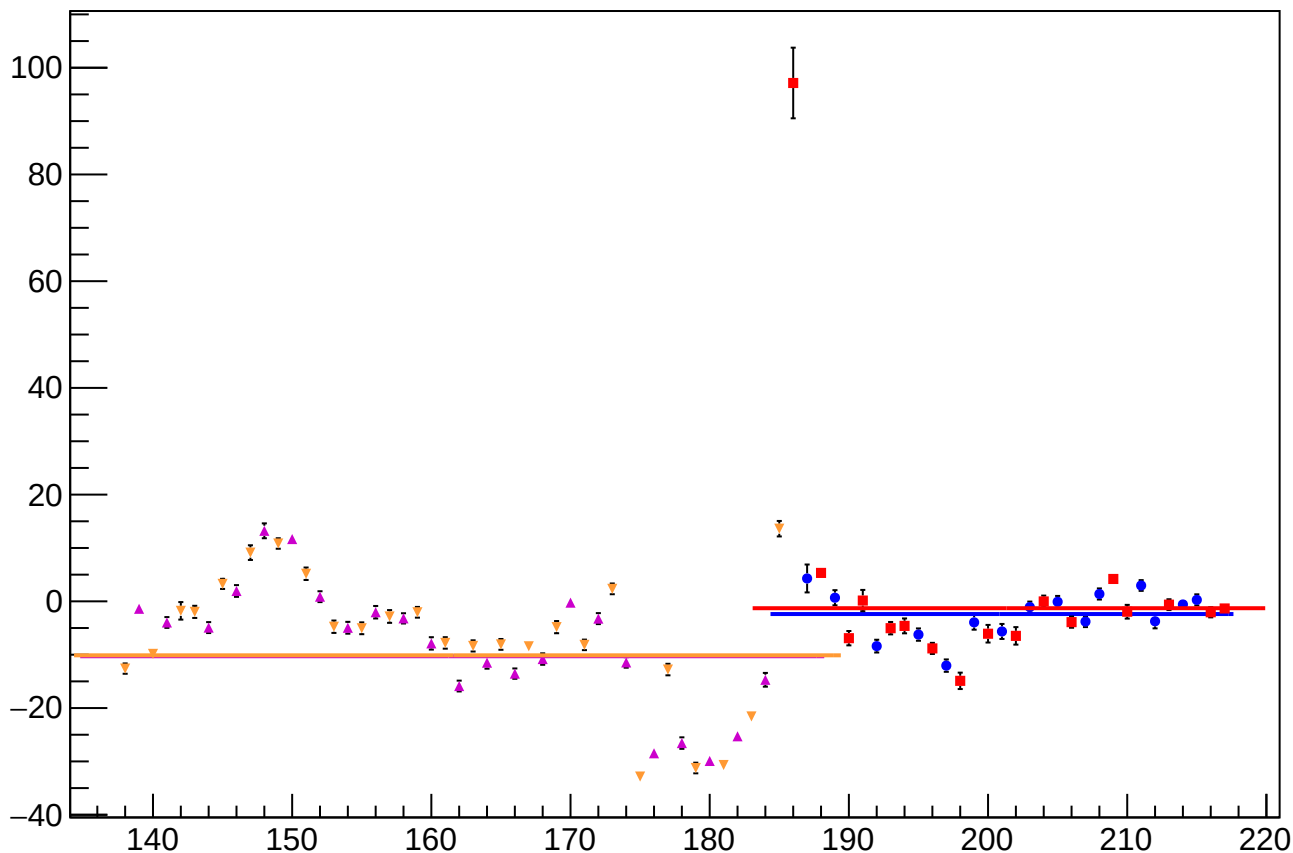
Right: -1.537 ± 0.029 $\chi^2/\text{NDF}: 2953.3/67$

In: -0.814 ± 0.016 $\chi^2/\text{NDF}: 3936.1/54$

Out: -0.903 ± 0.015 $\chi^2/\text{NDF}: 3838.6/60$

All: -0.860 ± 0.011 $\chi^2/\text{NDF}: 7791.3/115$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.381 ± 0.300 $\chi^2/\text{NDF}: 183.6/14$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.289 ± 0.272 $\chi^2/\text{NDF}: 559.2/16$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

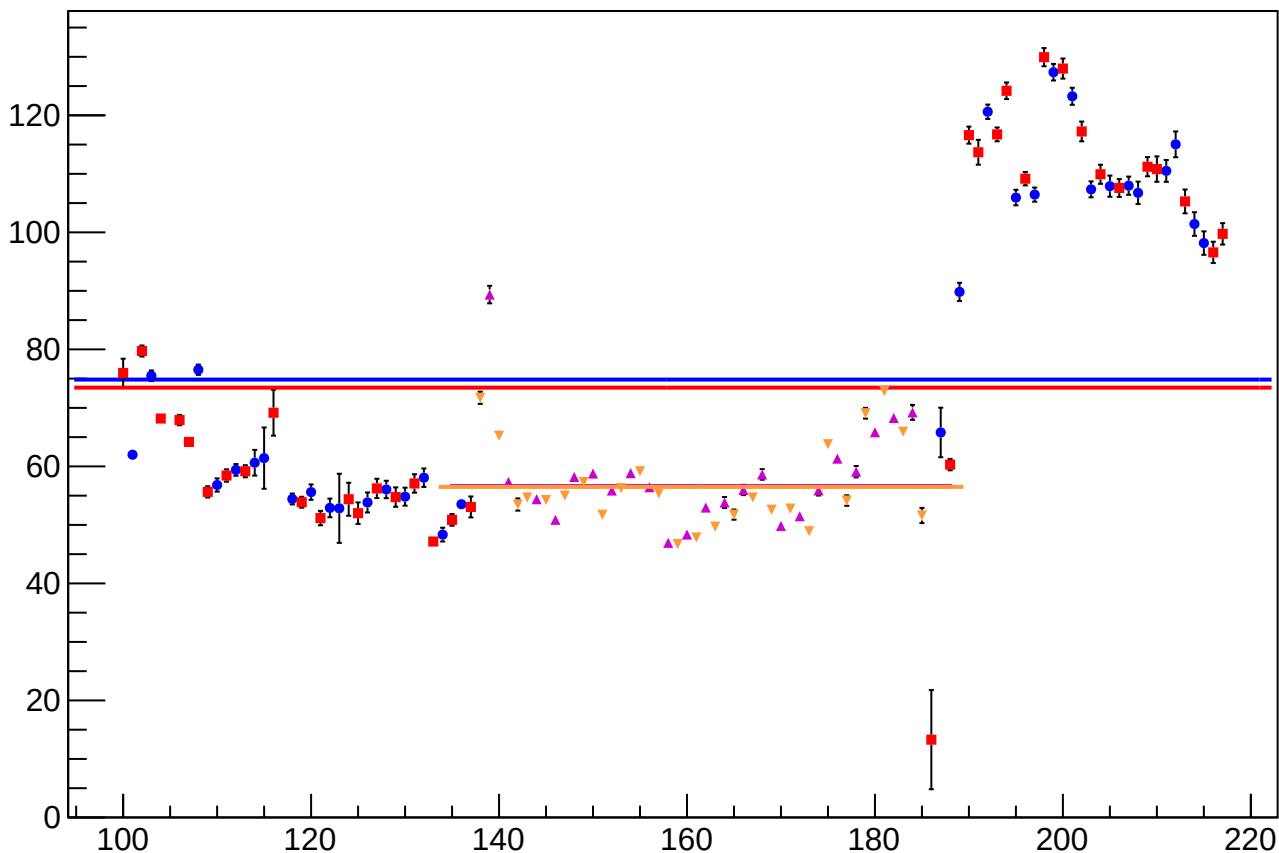
Right: -1.781 ± 0.202 $\chi^2/\text{NDF}: 750.0/31$

In: -7.770 ± 0.170 $\chi^2/\text{NDF}: 4107.0/37$

Out: -6.991 ± 0.162 $\chi^2/\text{NDF}: 5377.6/41$

All: -7.362 ± 0.117 $\chi^2/\text{NDF}: 9495.6/79$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 74.838+/-0.222 χ^2/NDF : 11672.8/31

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 73.460+/-0.207 χ^2/NDF : 15031.1/35

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

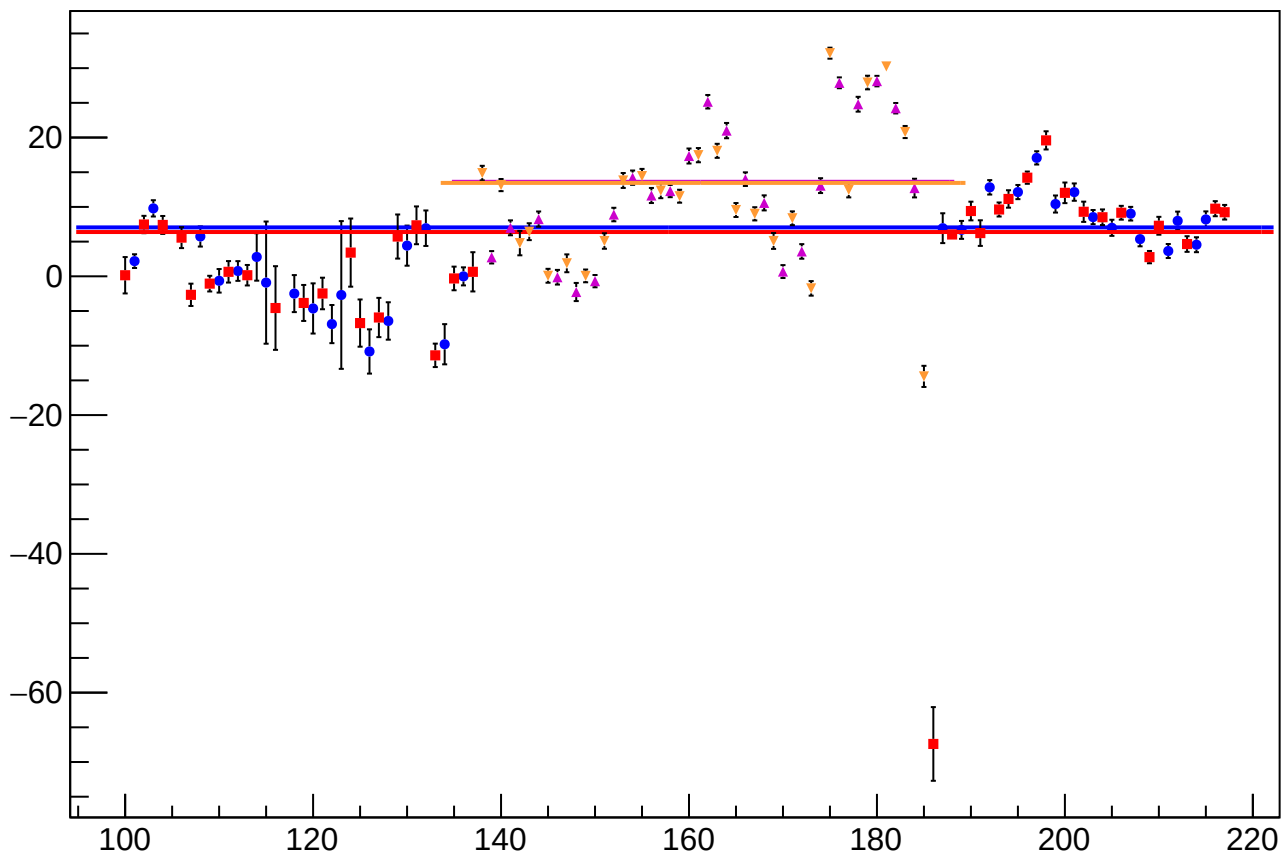
Right: 74.101+/-0.151 χ^2/NDF : 26724.5/67

In: 63.119+/-0.132 χ^2/NDF :17609.2/54

Out: 62.785+/-0.126 χ^2/NDF :21225.9/60

All: 62.944+/-0.091 χ^2/NDF : 38838.4/115

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.049 ± 0.245 χ^2/NDF : 459.5/31

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.382 ± 0.220 χ^2/NDF : 782.2/35

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

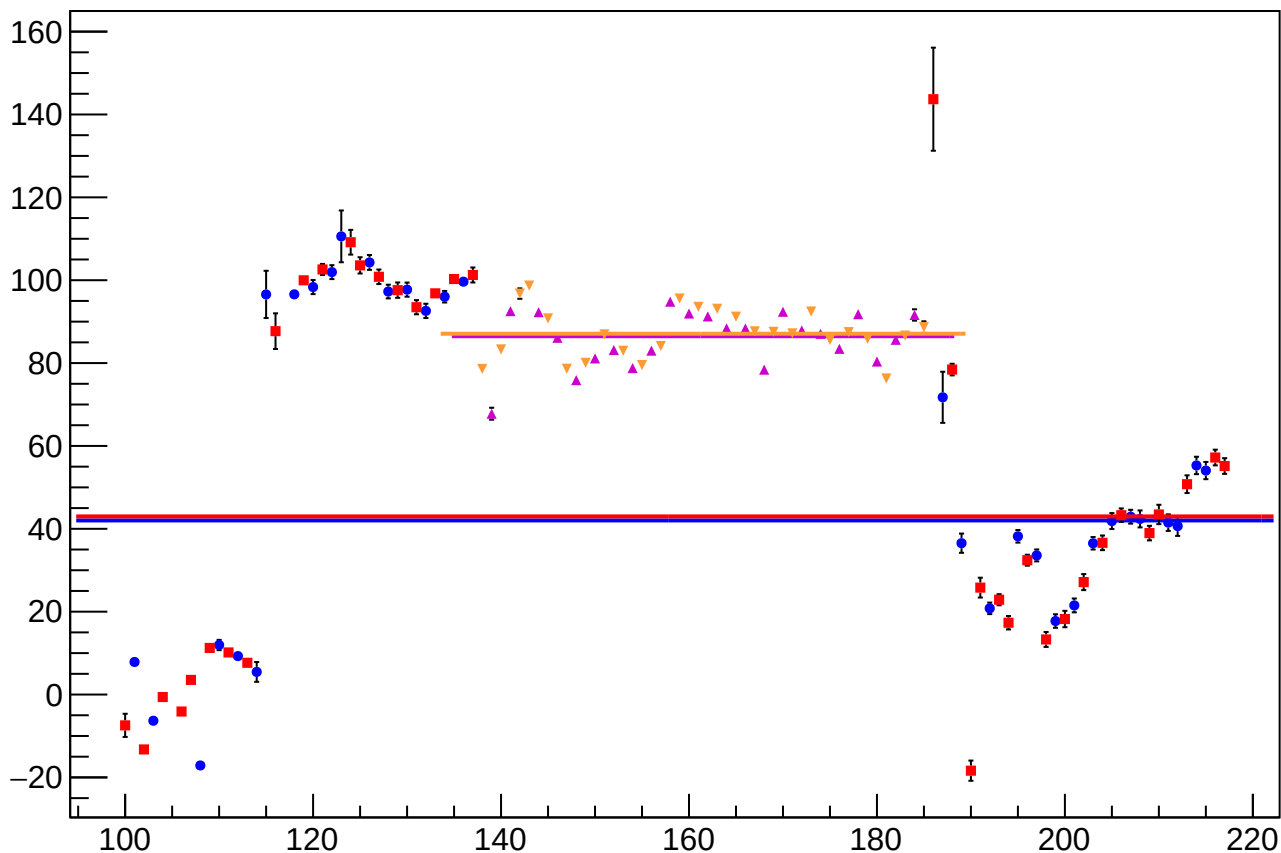
Right: 6.679 ± 0.164 χ^2/NDF : 1245.8/67

In: 10.925 ± 0.157 χ^2/NDF : 3198.5/54

Out: 10.226 ± 0.148 χ^2/NDF : 4082.9/60

All: 10.556 ± 0.108 χ^2/NDF : 7291.9/115

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.018 $\pm$ 0.255 χ^2 /NDF: 25547.0/31

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.992 $\pm$ 0.242 χ^2 /NDF: 30877.1/35

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

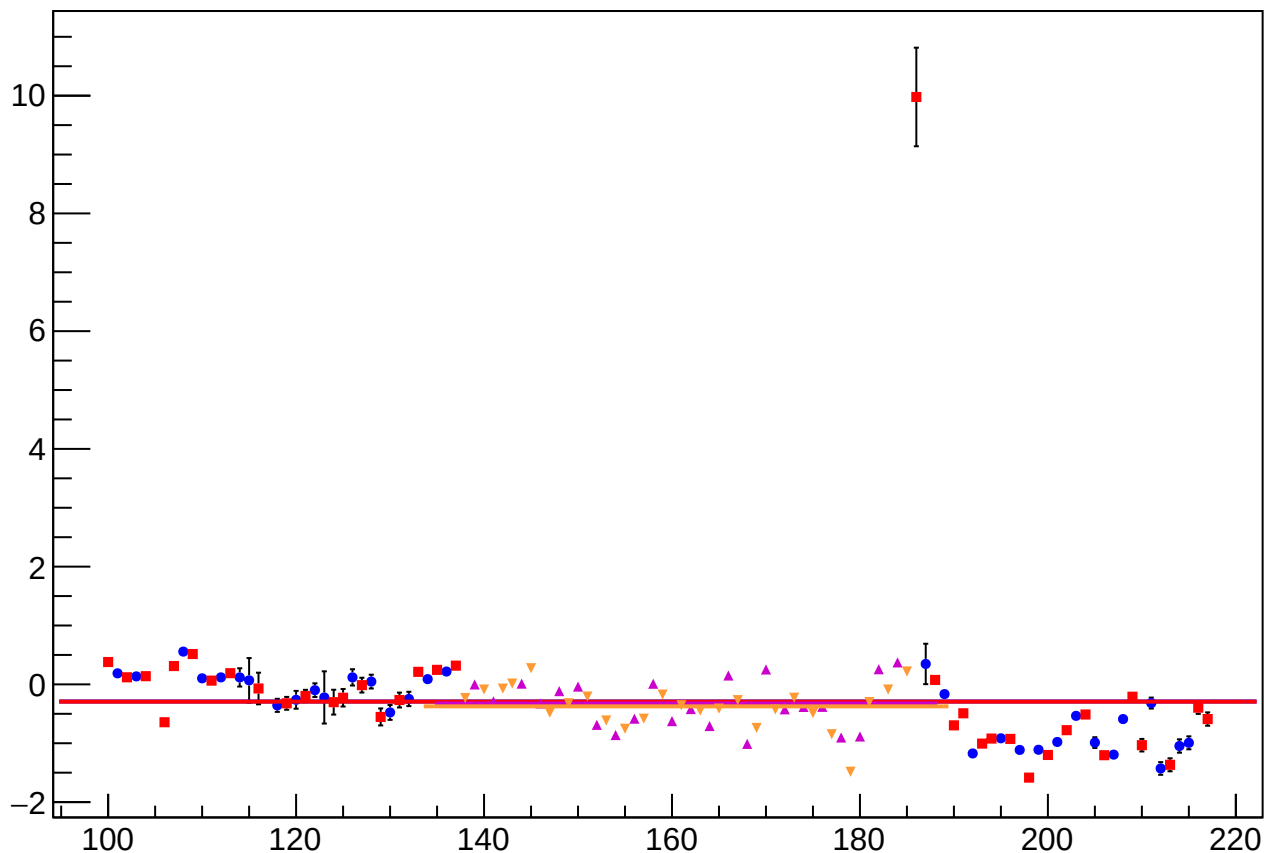
Right: 42.531 $\pm$ 0.176 χ^2 /NDF: 56431.8/67

In: 71.226 $\pm$ 0.150 χ^2 /NDF:46452.9/54

Out: 71.472 $\pm$ 0.144 χ^2 /NDF:53433.5/60

All: 71.354 $\pm$ 0.104 χ^2 /NDF: 99887.7/115

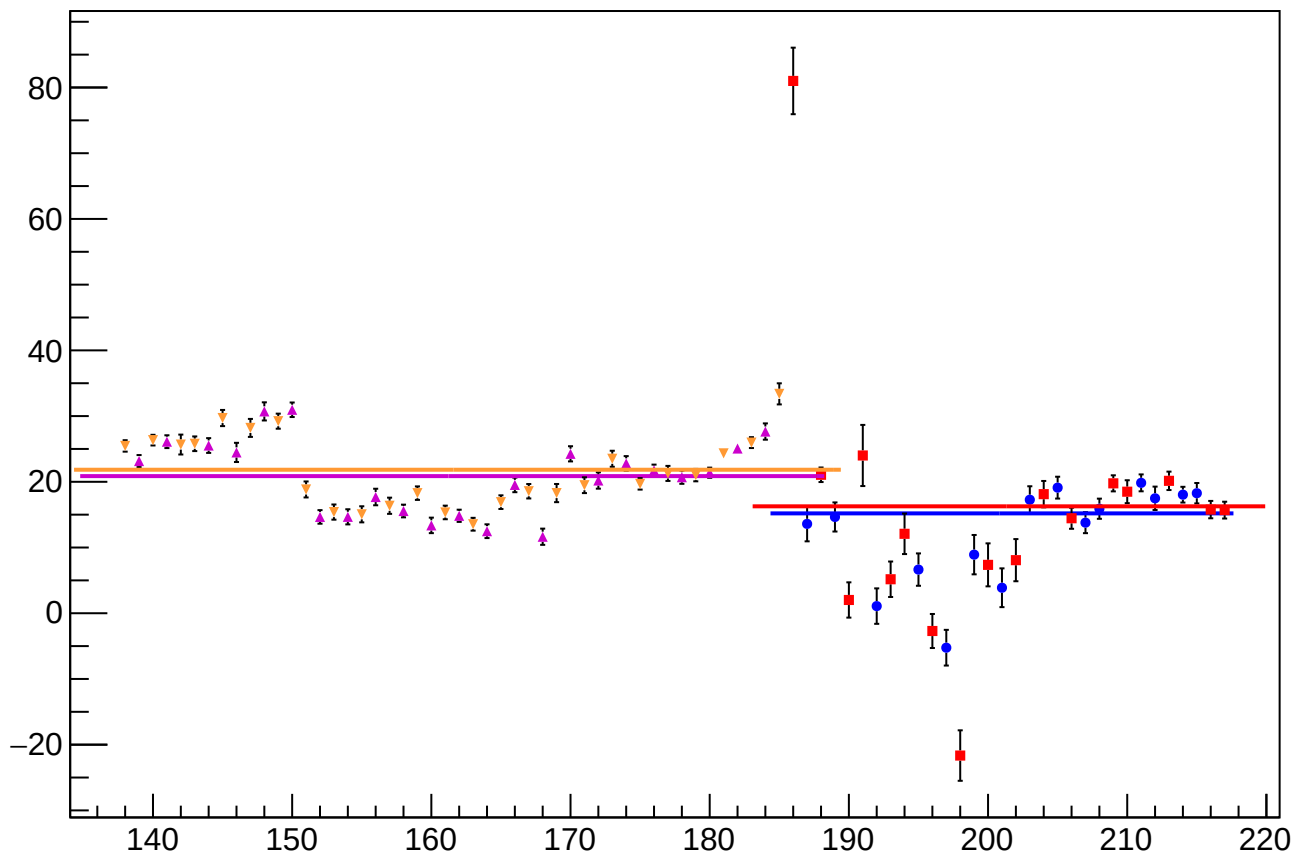
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.291 ± 0.011 χ^2/NDF : 3395.8/31
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.293 ± 0.010 χ^2/NDF : 3711.7/35
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.292 ± 0.007 χ^2/NDF : 7107.5/67
 In: -0.312 ± 0.006 χ^2/NDF : 5686.6/54
 Out: -0.341 ± 0.006 χ^2/NDF : 5419.6/60
 All: -0.327 ± 0.005 χ^2/NDF : 11116.3/115

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.194 $\pm$ 0.473 χ^2 /NDF: 147.4/14

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 16.268 $\pm$ 0.446 χ^2 /NDF: 417.1/16

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

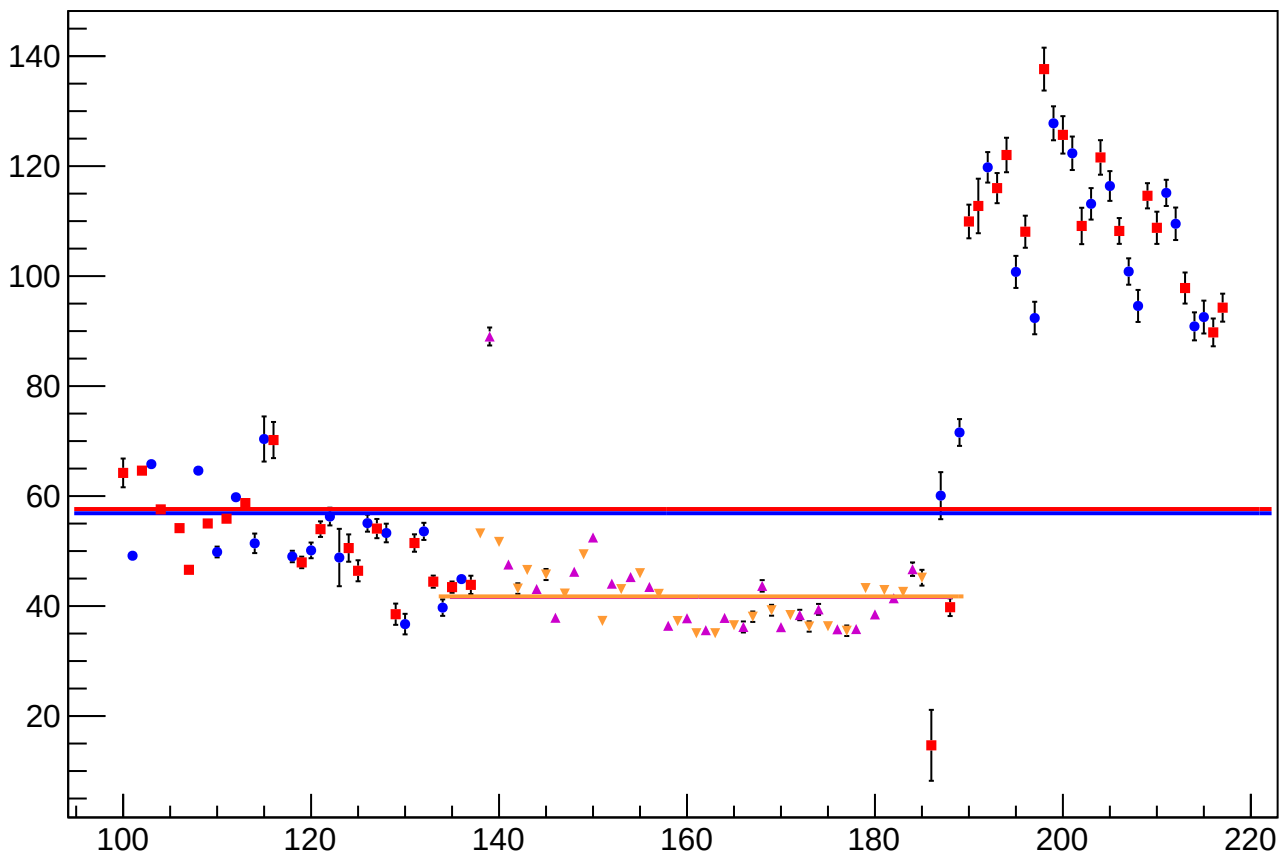
Right: 15.763 $\pm$ 0.325 χ^2 /NDF: 567.2/31

In: 19.884 $\pm$ 0.197 χ^2 /NDF:843.0/37

Out: 20.829 $\pm$ 0.190 χ^2 /NDF:1068.8/41

All: 20.374 $\pm$ 0.137 χ^2 /NDF: 1923.7/79

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.877 $\pm$ 0.203 χ^2 /NDF: 6058.9/31

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 57.645 $\pm$ 0.215 χ^2 /NDF: 6433.5/35

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

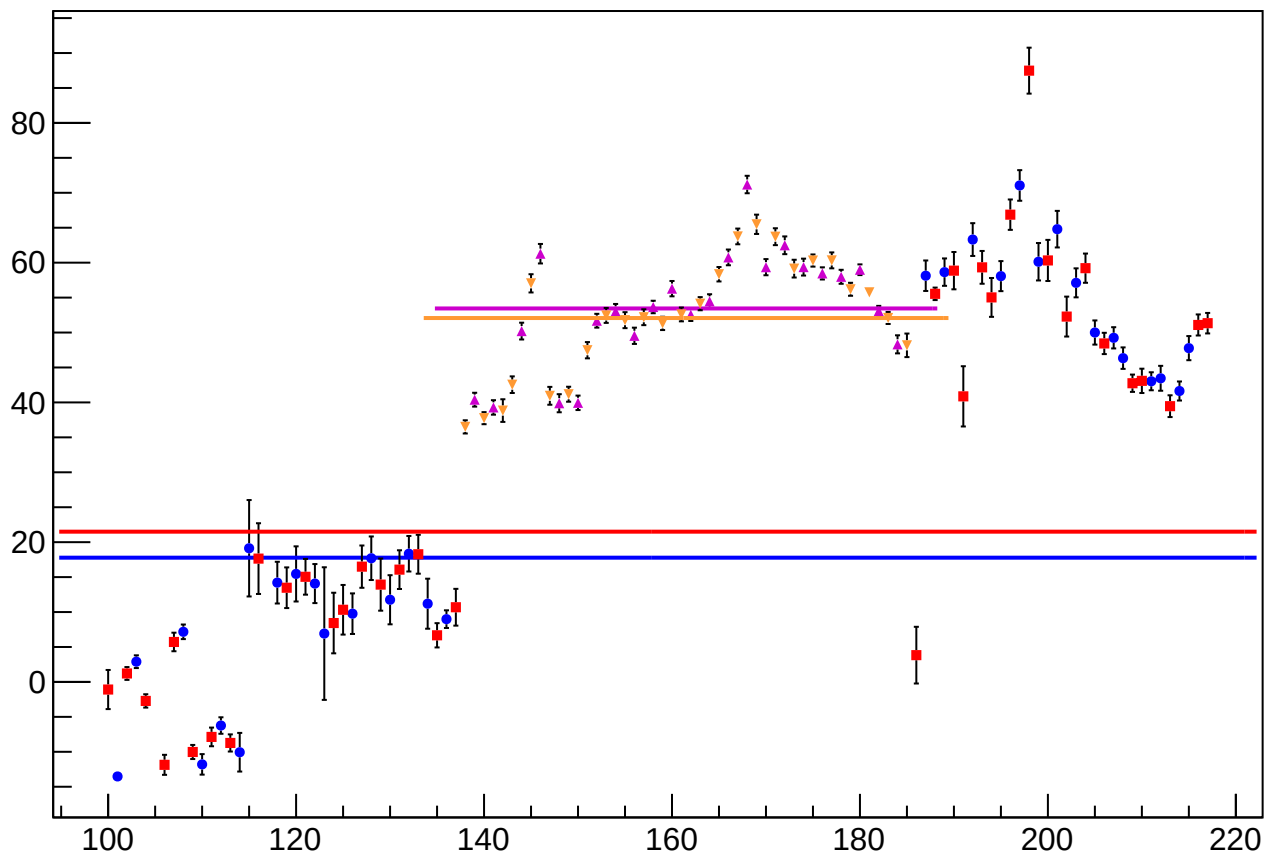
Right: 57.239 $\pm$ 0.147 χ^2 /NDF: 12499.2/67

In: 48.099 $\pm$ 0.132 χ^2 /NDF:10927.0/54

Out: 47.660 $\pm$ 0.131 χ^2 /NDF:10879.0/60

All: 47.878 $\pm$ 0.093 χ^2 /NDF: 21811.5/115

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.781 $\pm$ 0.287 χ^2 /NDF: 9246.2/31

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 21.504 $\pm$ 0.285 χ^2 /NDF: 9320.5/35

Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47

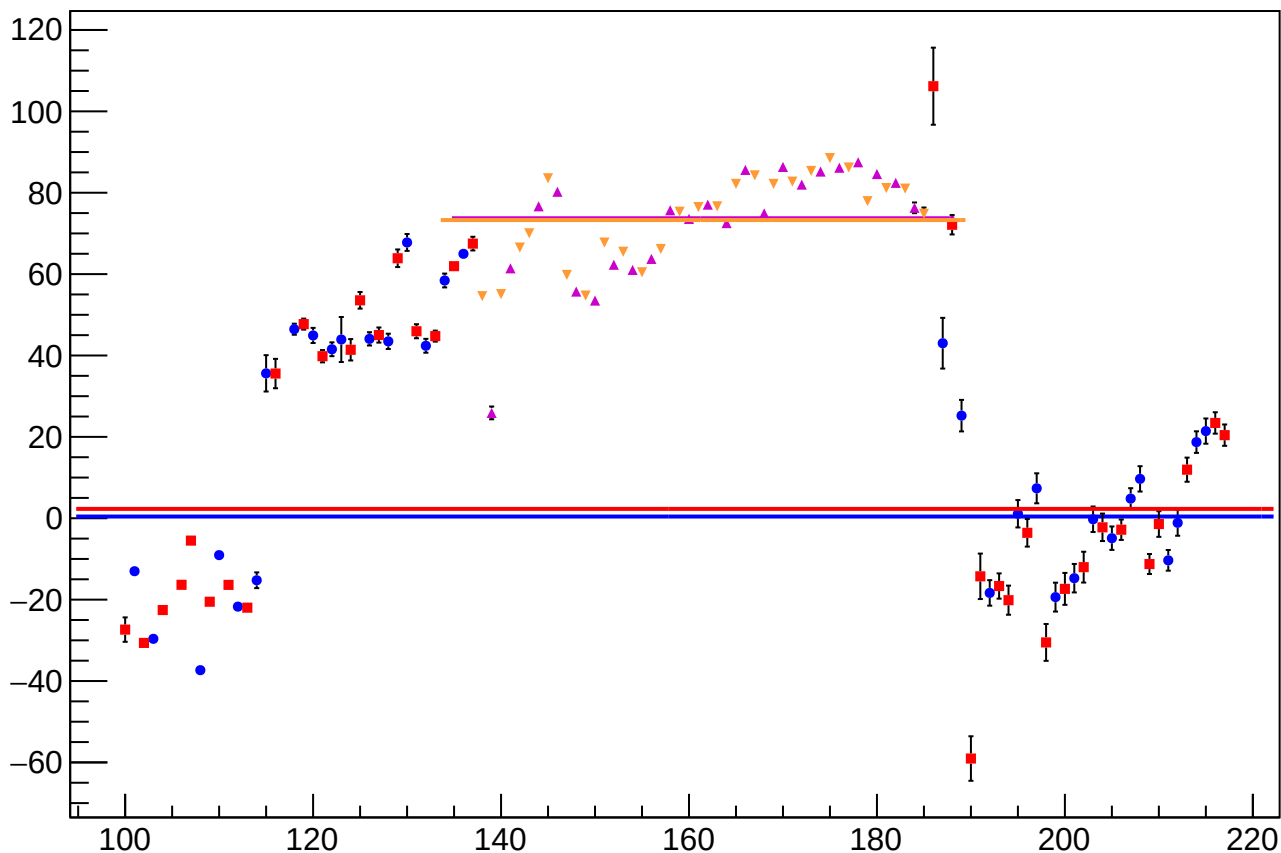
Right: 19.661 $\pm$ 0.202 χ^2 /NDF: 18651.4/67

In: 40.628 $\pm$ 0.172 χ^2 /NDF:20273.7/54

Out: 41.297 $\pm$ 0.169 χ^2 /NDF:18243.4/60

All: 40.969 $\pm$ 0.121 χ^2 /NDF: 38524.8/115

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.427 ± 0.237 χ^2/NDF : 18524.2/31

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 2.303 ± 0.253 χ^2/NDF : 16860.8/35

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

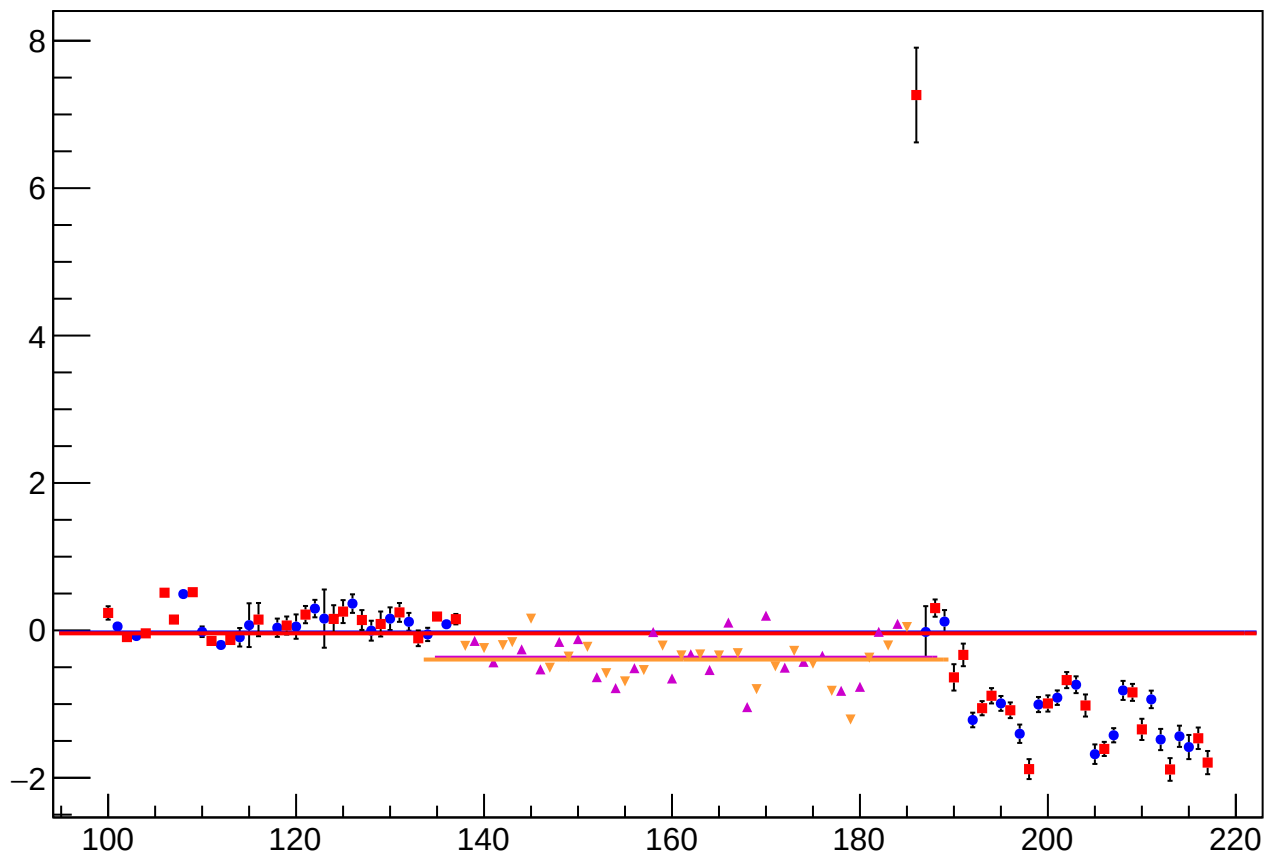
Right: 1.306 ± 0.173 χ^2/NDF : 35414.4/67

In: 44.263 ± 0.150 χ^2/NDF : 79495.3/54

Out: 48.182 ± 0.150 χ^2/NDF : 71040.3/60

All: 46.223 ± 0.106 χ^2/NDF : 150875.9/115

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.028 ± 0.010 χ^2/NDF : 1860.7/31

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.040 ± 0.010 χ^2/NDF : 2050.4/35

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

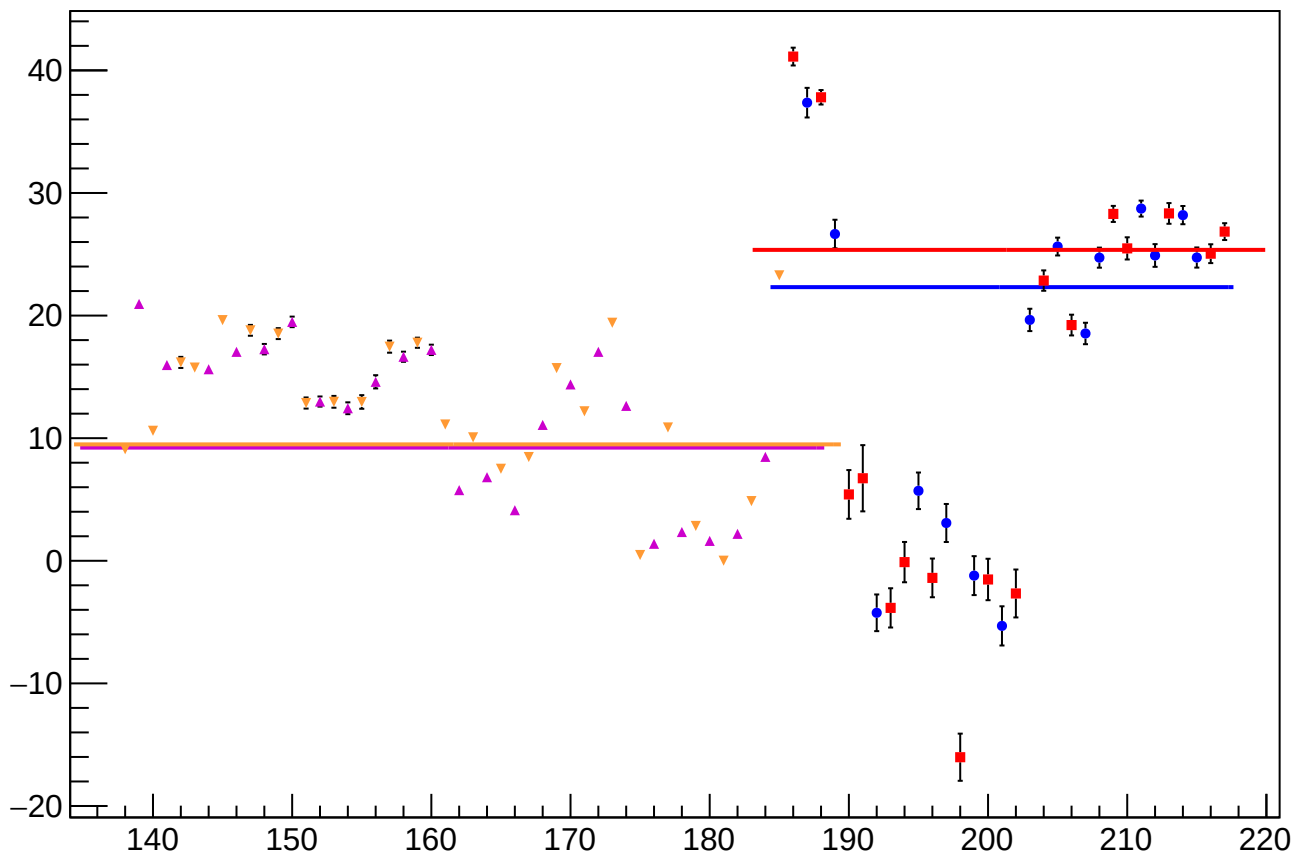
Right: -0.034 ± 0.007 χ^2/NDF : 3911.8/67

In: -0.230 ± 0.007 χ^2/NDF : 3811.7/54

Out: -0.252 ± 0.007 χ^2/NDF : 3700.2/60

All: -0.241 ± 0.005 χ^2/NDF : 7517.4/115

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.320 ± 0.248 $\chi^2/\text{NDF}: 1512.8/14$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 25.359 ± 0.231 $\chi^2/\text{NDF}: 2942.9/16$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

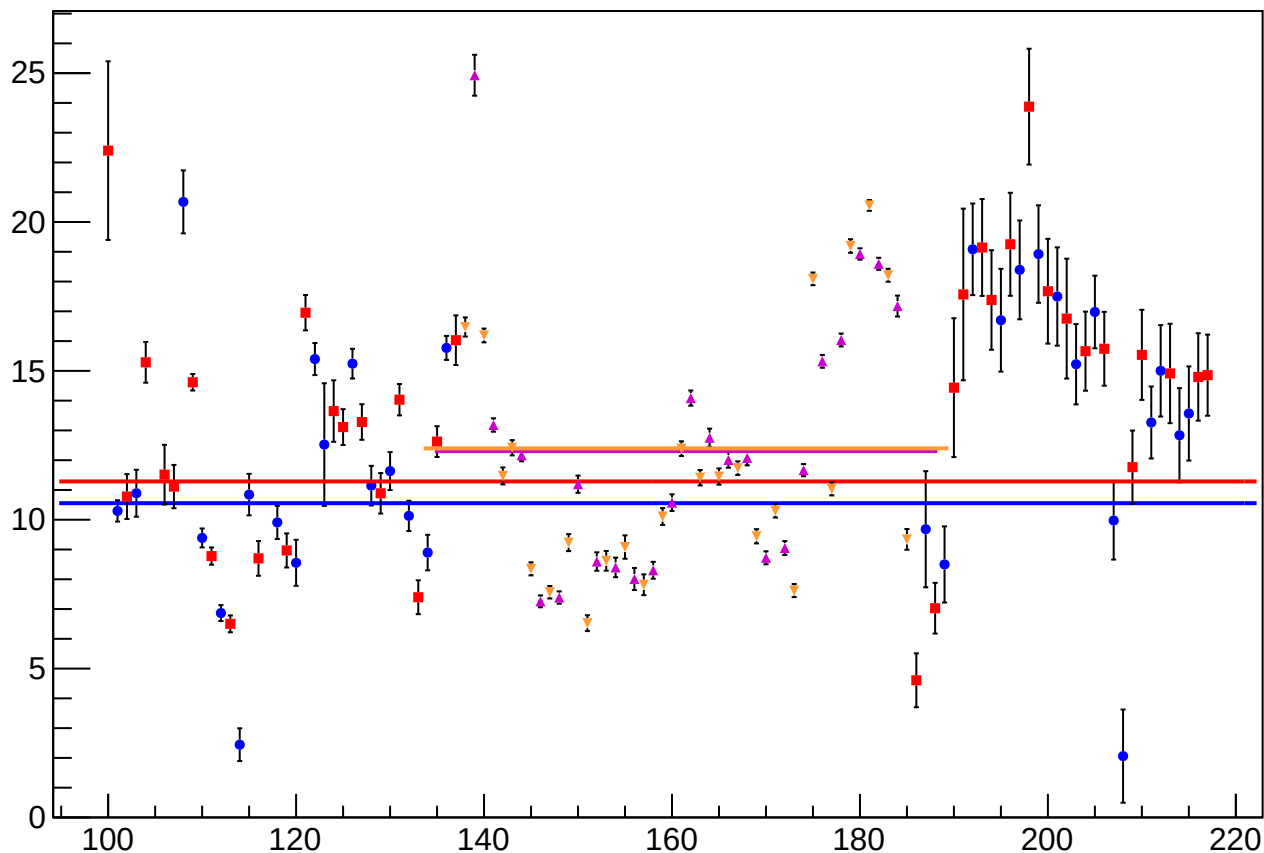
Right: 23.952 ± 0.169 $\chi^2/\text{NDF}: 4536.2/31$

In: 10.024 ± 0.061 $\chi^2/\text{NDF}: 14861.2/37$

Out: 10.540 ± 0.059 $\chi^2/\text{NDF}: 19974.0/41$

All: 10.290 ± 0.043 $\chi^2/\text{NDF}: 34872.0/79$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.556 $\pm$ 0.114 χ^2 /NDF: 1073.6/31

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.286 $\pm$ 0.110 χ^2 /NDF: 1074.8/35

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

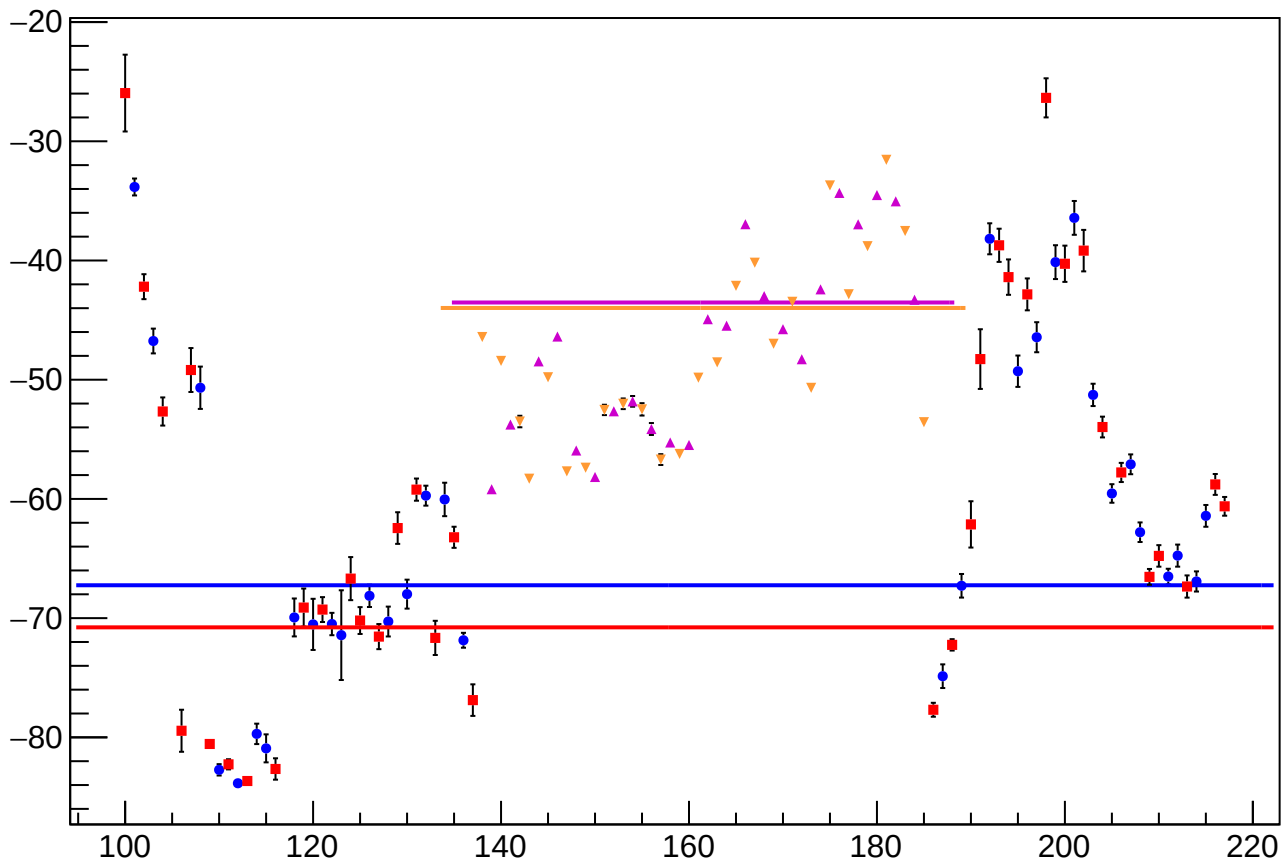
Right: 10.934 $\pm$ 0.079 χ^2 /NDF: 2169.5/67

In: 12.014 $\pm$ 0.047 χ^2 /NDF: 6871.1/54

Out: 12.210 $\pm$ 0.045 χ^2 /NDF: 8701.9/60

All: 12.115 $\pm$ 0.033 χ^2 /NDF: 15582.1/115

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.242 ± 0.154 $\chi^2/\text{NDF}: 8657.6/31$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -70.773 ± 0.140 $\chi^2/\text{NDF}: 8459.2/35$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

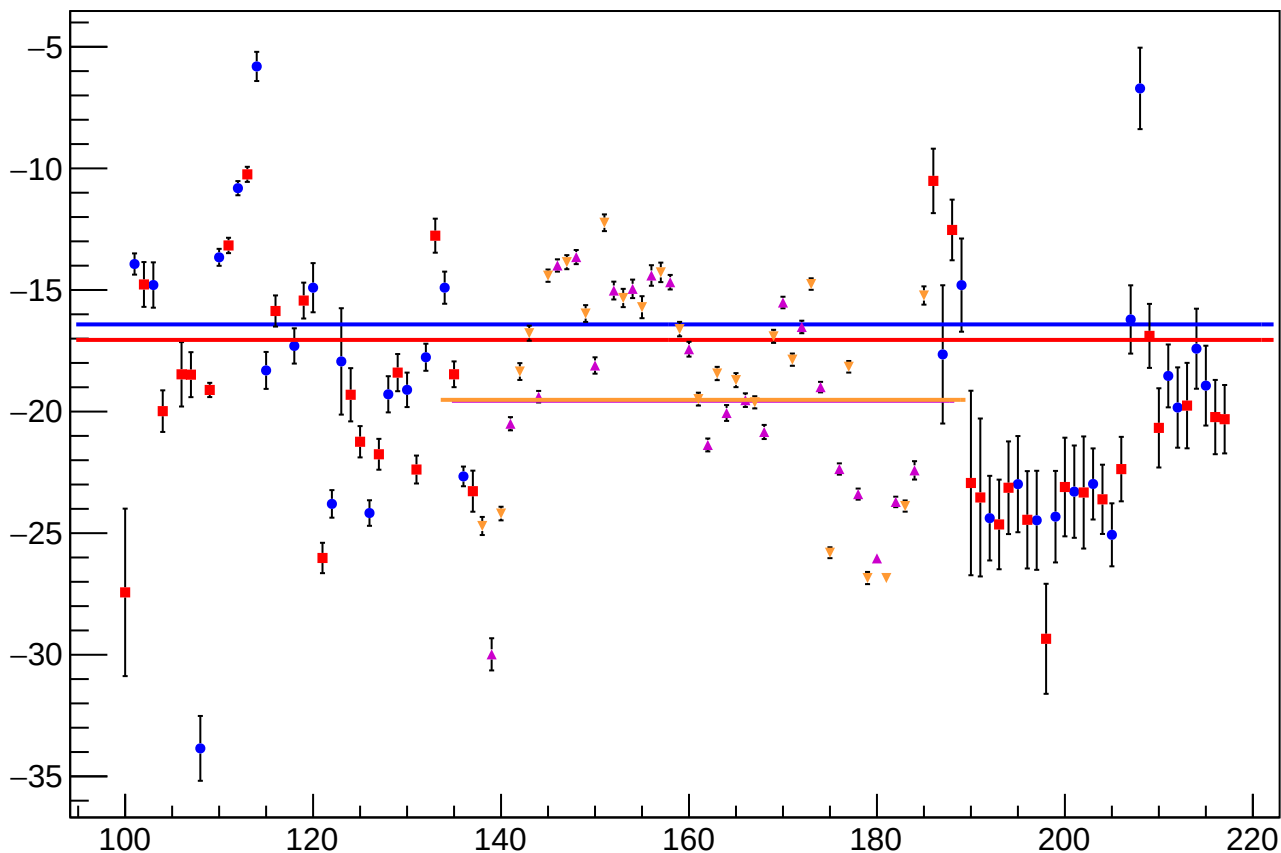
Right: -69.183 ± 0.103 $\chi^2/\text{NDF}: 17404.9/67$

In: -46.945 ± 0.059 $\chi^2/\text{NDF}: 44169.7/54$

Out: -48.388 ± 0.057 $\chi^2/\text{NDF}: 56968.5/60$

All: -47.691 ± 0.041 $\chi^2/\text{NDF}: 101451.6/115$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.415 ± 0.127 $\chi^2/\text{NDF}: 1814.2/31$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.053 ± 0.122 $\chi^2/\text{NDF}: 1400.5/35$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

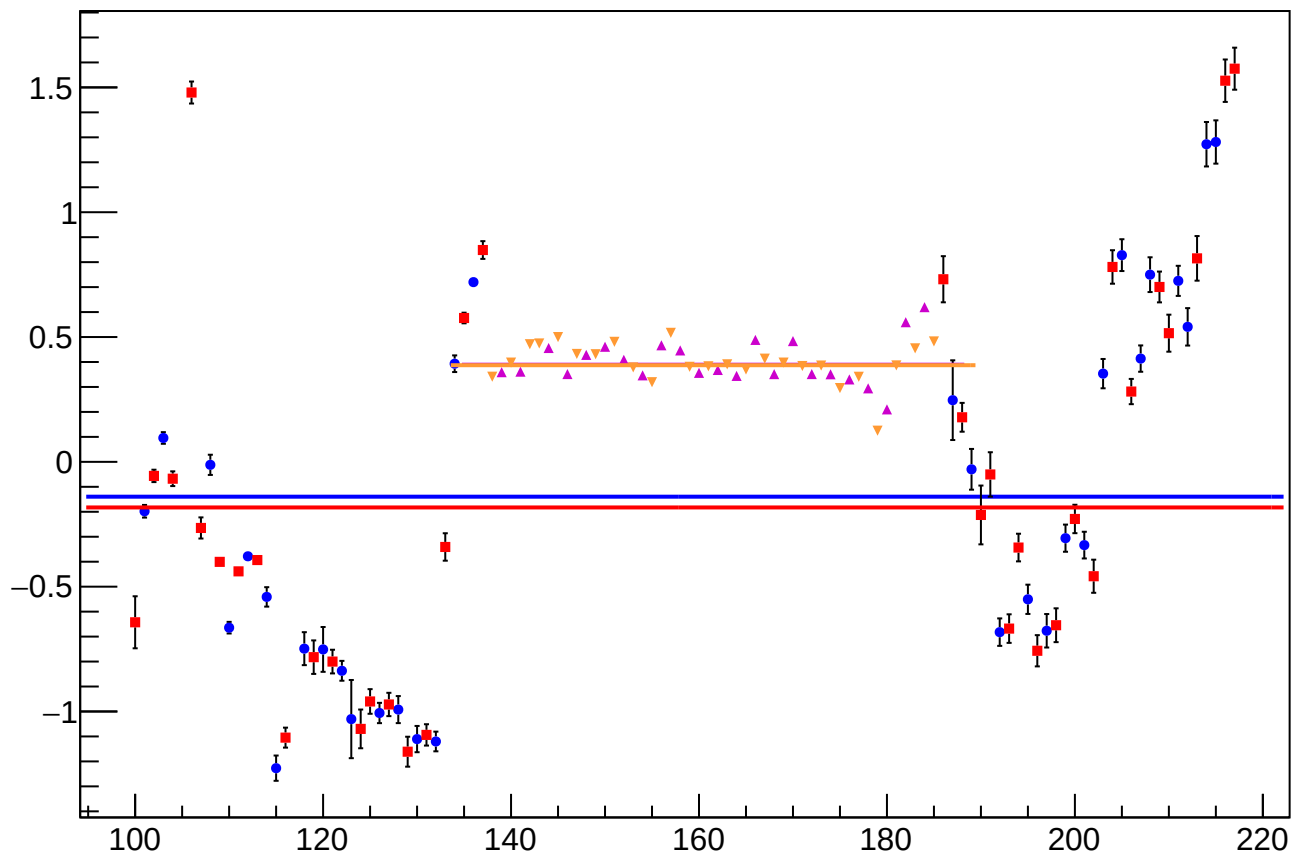
Right: -16.746 ± 0.088 $\chi^2/\text{NDF}: 3227.8/67$

In: -19.023 ± 0.052 $\chi^2/\text{NDF}: 6633.6/54$

Out: -19.093 ± 0.051 $\chi^2/\text{NDF}: 8254.8/60$

All: -19.059 ± 0.036 $\chi^2/\text{NDF}: 14889.4/115$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.140 ± 0.007 χ^2/NDF : 7994.0/31

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.183 ± 0.007 χ^2/NDF : 8154.8/35

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

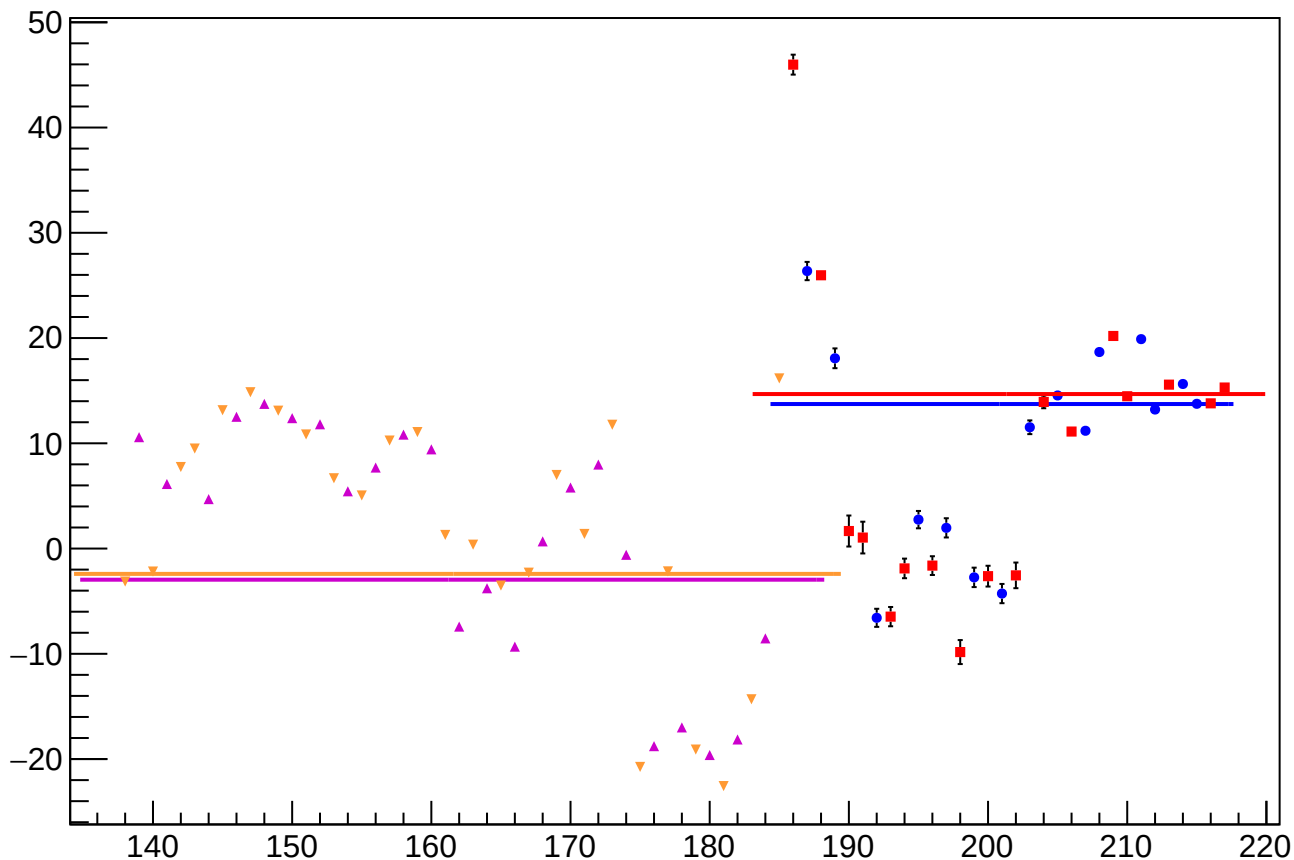
Right: -0.162 ± 0.005 χ^2/NDF : 16169.3/67

In: 0.322 ± 0.002 χ^2/NDF : 14390.7/54

Out: 0.312 ± 0.002 χ^2/NDF : 15661.8/60

All: 0.317 ± 0.002 χ^2/NDF : 30061.3/115

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.731 ± 0.138 $\chi^2/\text{NDF}: 2374.3/14$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.679 ± 0.132 $\chi^2/\text{NDF}: 4439.8/16$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

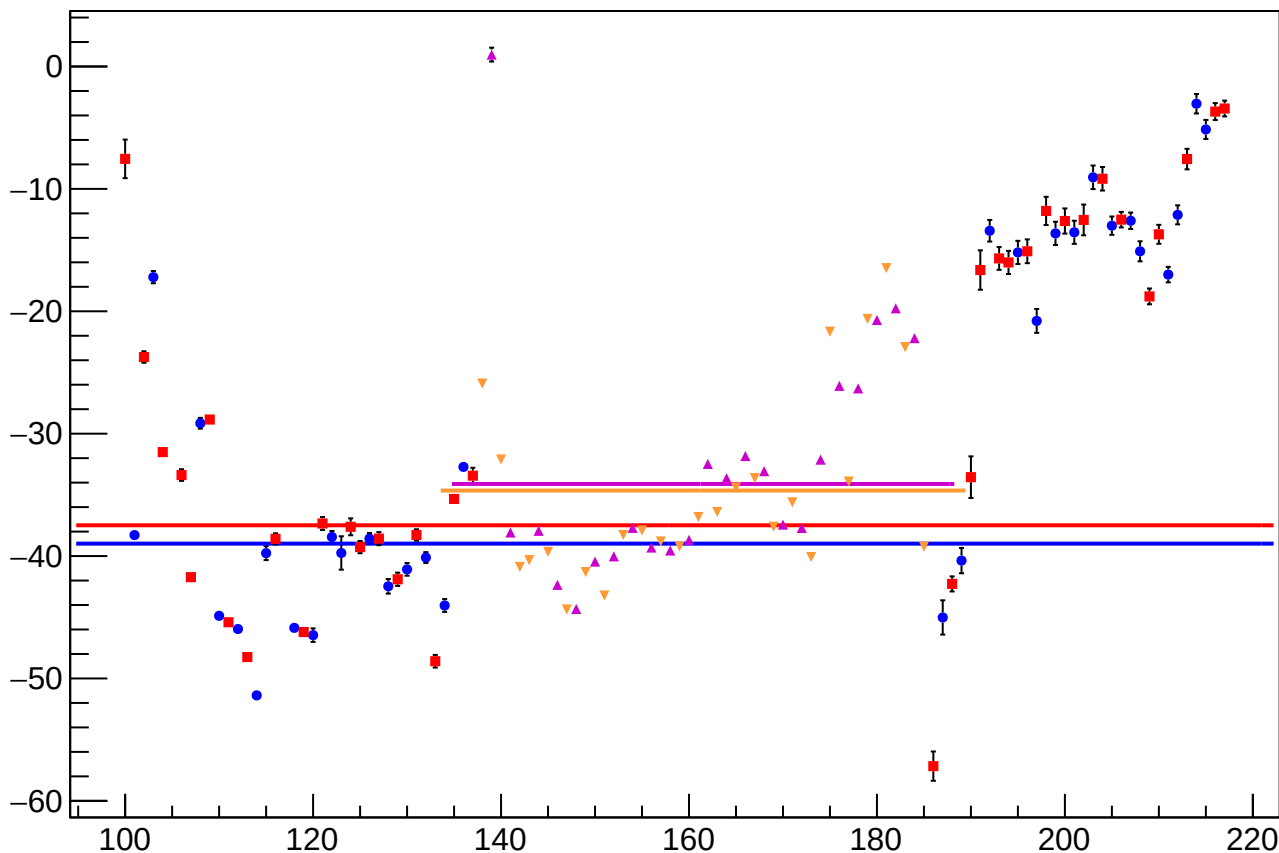
Right: 14.225 ± 0.095 $\chi^2/\text{NDF}: 6838.9/31$

In: -0.672 ± 0.051 $\chi^2/\text{NDF}: 60982.9/37$

Out: -0.053 ± 0.049 $\chi^2/\text{NDF}: 75249.3/41$

All: -0.350 ± 0.035 $\chi^2/\text{NDF}: 136308.8/79$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.984 ± 0.074 $\chi^2/\text{NDF}: 22366.3/31$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -37.485 ± 0.069 $\chi^2/\text{NDF}: 26768.6/35$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

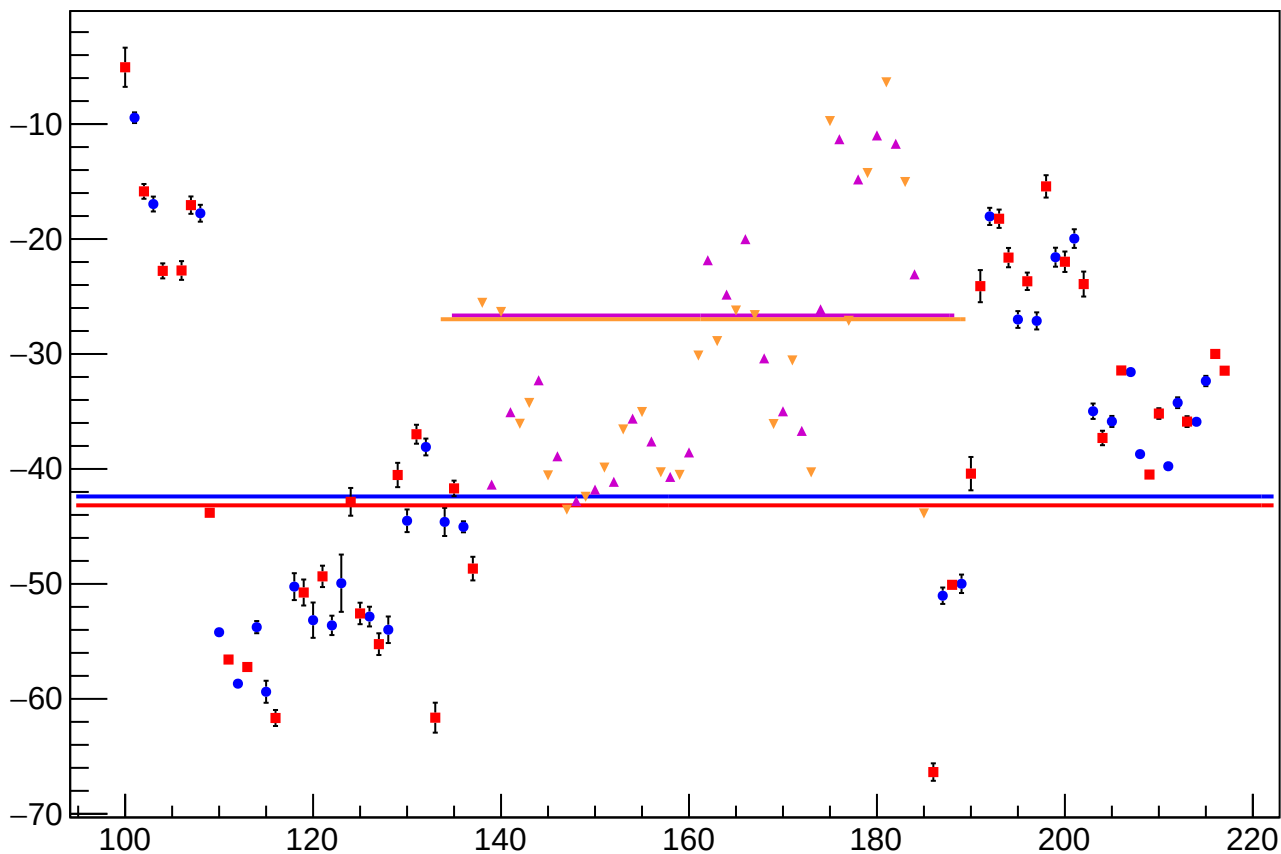
Right: -38.183 ± 0.050 $\chi^2/\text{NDF}: 49356.5/67$

In: -35.391 ± 0.038 $\chi^2/\text{NDF}: 54655.7/54$

Out: -35.412 ± 0.036 $\chi^2/\text{NDF}: 62690.4/60$

All: -35.402 ± 0.026 $\chi^2/\text{NDF}: 117346.3/115$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.393 ± 0.092 $\chi^2/\text{NDF}: 22932.3/31$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -43.166 ± 0.083 $\chi^2/\text{NDF}: 22863.9/35$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

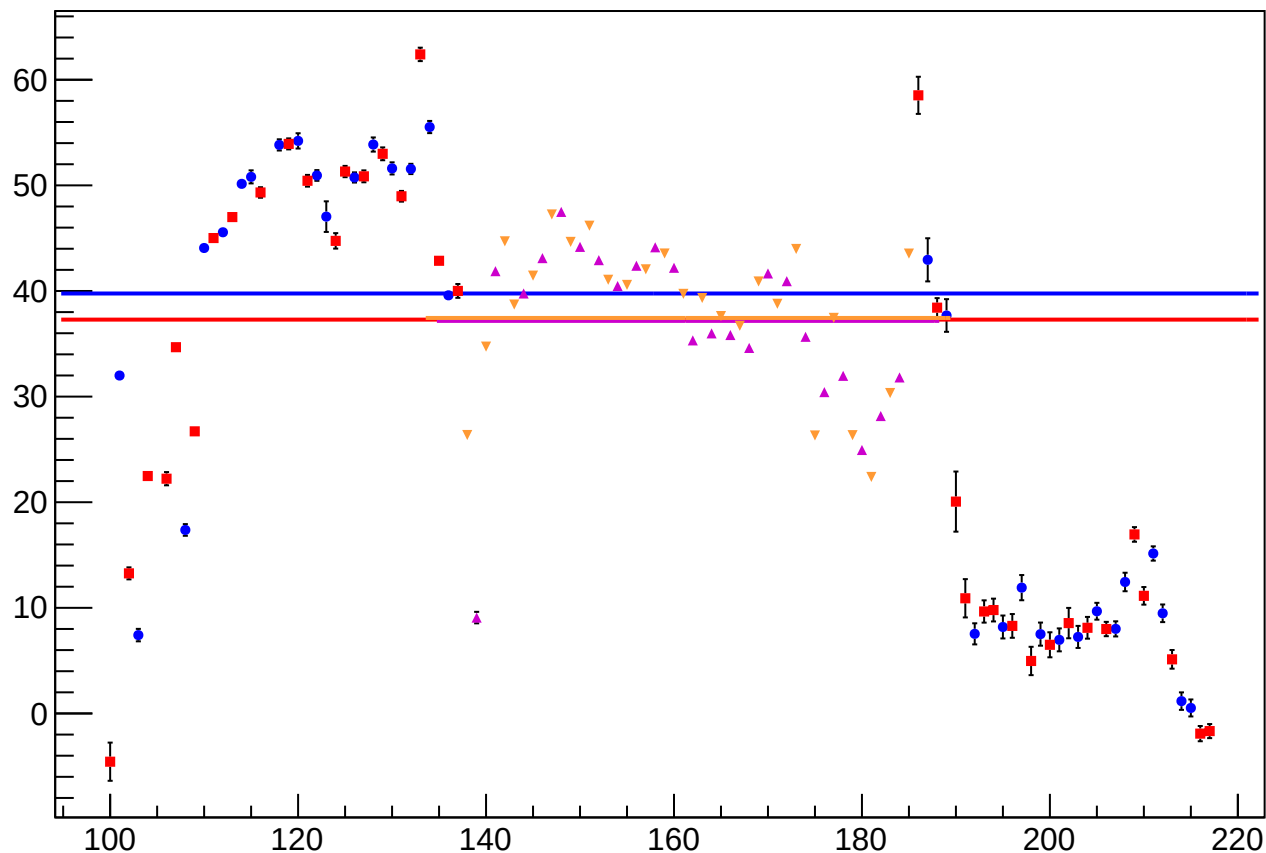
Right: -42.820 ± 0.062 $\chi^2/\text{NDF}: 45834.9/67$

In: -30.769 ± 0.047 $\chi^2/\text{NDF}: 86502.4/54$

Out: -31.683 ± 0.045 $\chi^2/\text{NDF}: 99148.9/60$

All: -31.250 ± 0.032 $\chi^2/\text{NDF}: 185848.5/115$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.762 $\pm$ 0.082 χ^2 /NDF: 29359.2/31

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 37.290 $\pm$ 0.076 χ^2 /NDF: 35466.3/35

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

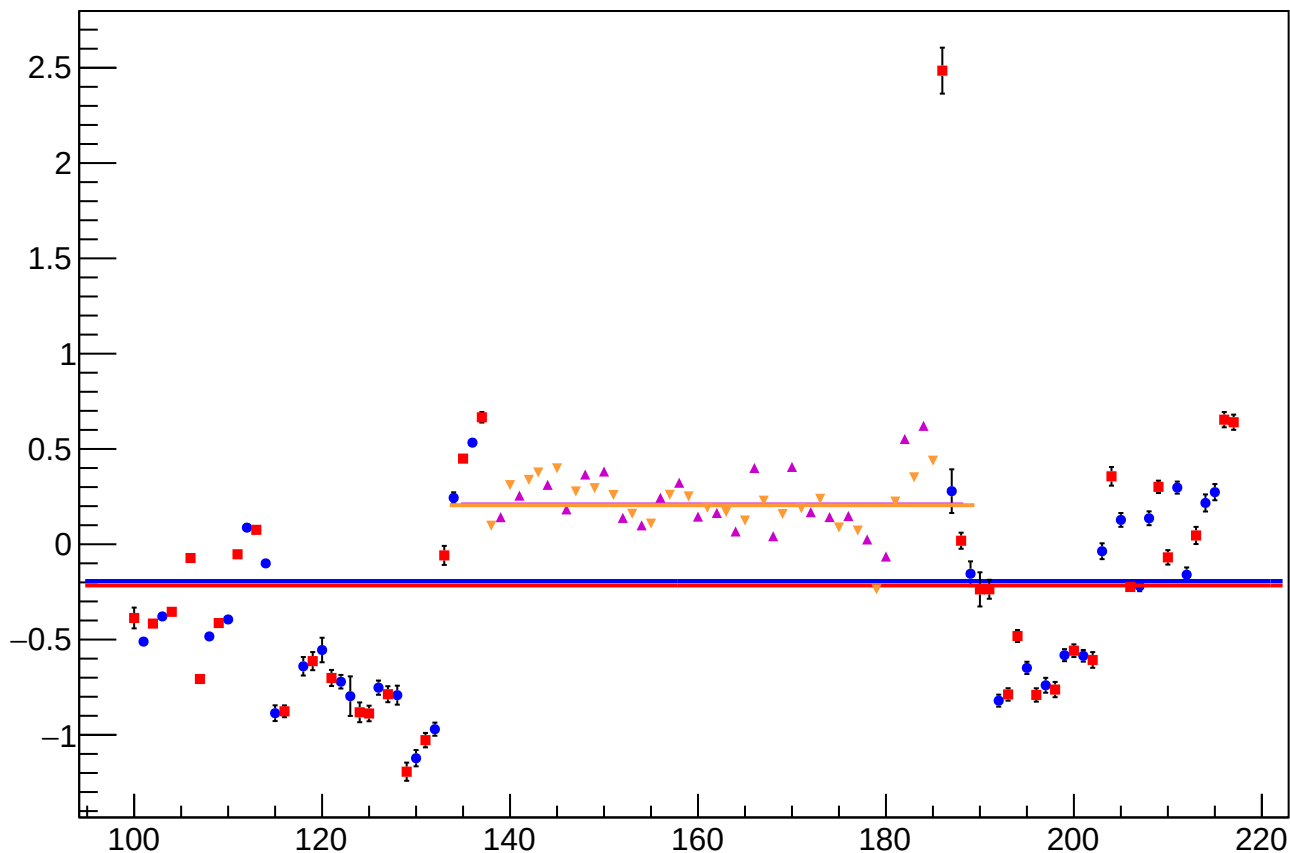
Right: 38.433 $\pm$ 0.056 χ^2 /NDF: 65316.4/67

In: 37.859 $\pm$ 0.042 χ^2 /NDF:47333.1/54

Out: 37.403 $\pm$ 0.040 χ^2 /NDF:57040.0/60

All: 37.619 $\pm$ 0.029 χ^2 /NDF: 104434.5/115

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.193 ± 0.004 χ^2/NDF : 9109.8/31

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.216 ± 0.004 χ^2/NDF : 10345.3/35

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

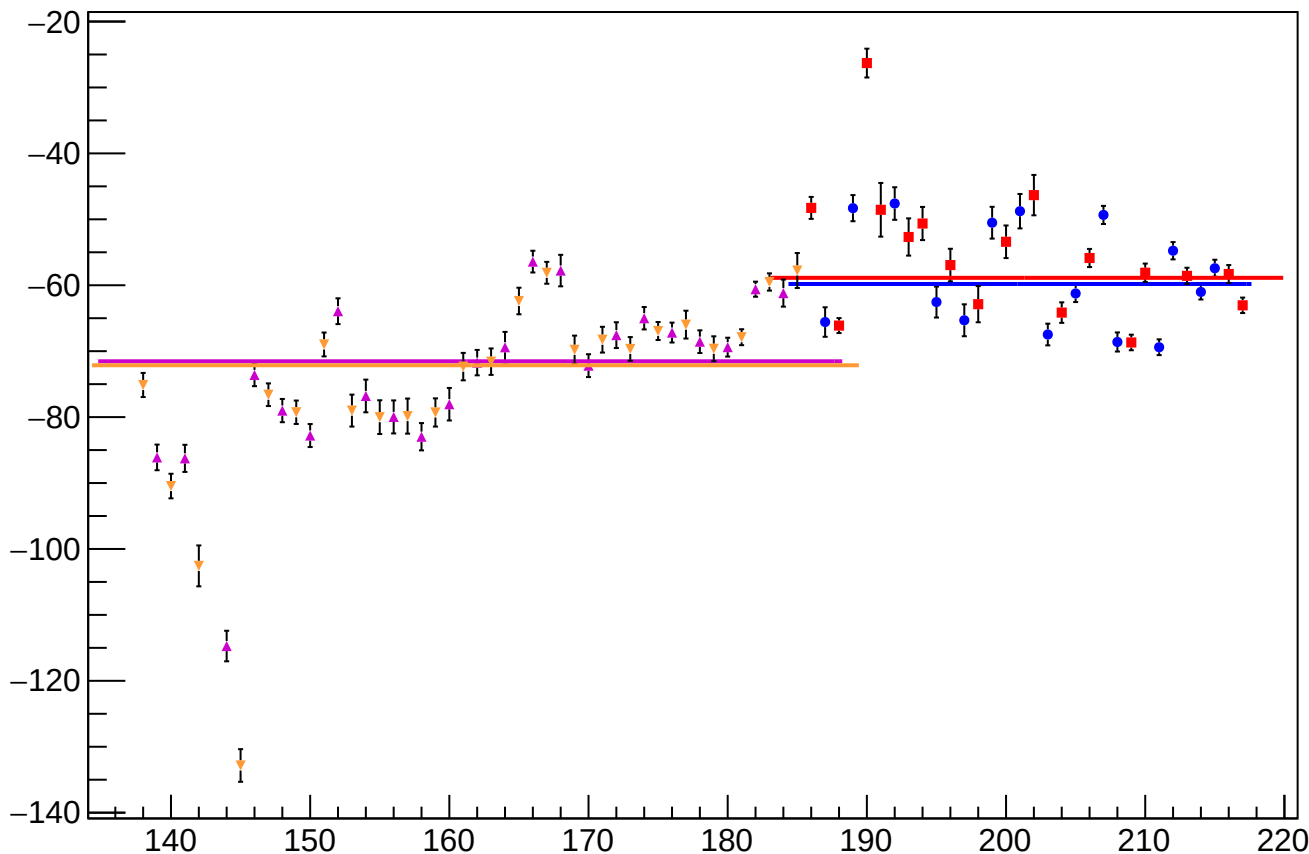
Right: -0.206 ± 0.003 χ^2/NDF : 19470.9/67

In: 0.123 ± 0.002 χ^2/NDF : 21017.5/54

Out: 0.106 ± 0.002 χ^2/NDF : 23016.5/60

All: 0.114 ± 0.001 χ^2/NDF : 44072.5/115

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.808 ± 0.412 χ^2/NDF : 305.4/14

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -58.874 ± 0.396 χ^2/NDF : 448.0/16

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

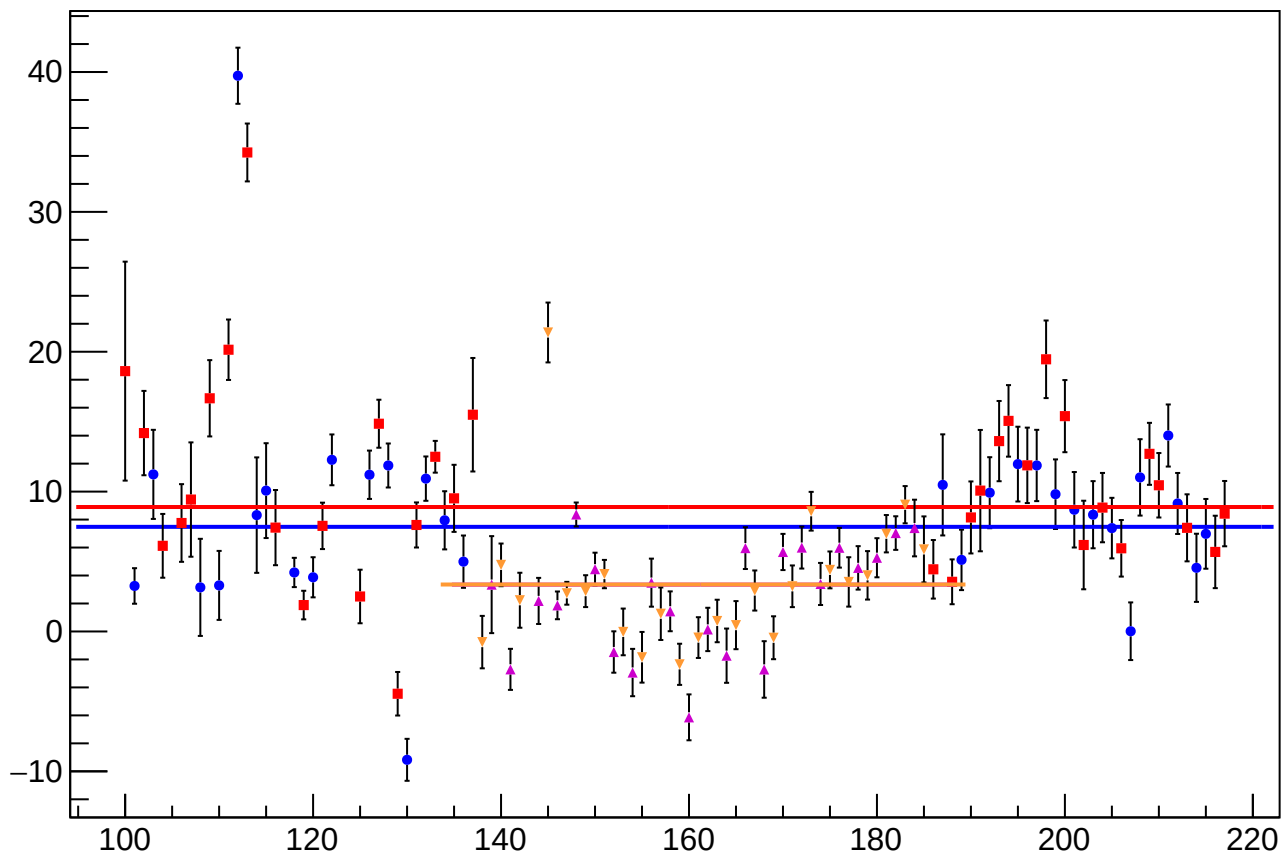
Right: -59.323 ± 0.286 χ^2/NDF : 756.1/31

In: -66.120 ± 0.280 χ^2/NDF : 1592.6/37

Out: -65.737 ± 0.275 χ^2/NDF : 2148.6/40

All: -65.925 ± 0.196 χ^2/NDF : 3742.2/78

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.480 ± 0.360 $\chi^2/\text{NDF}: 476.5/30$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.898 ± 0.356 $\chi^2/\text{NDF}: 404.3/34$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

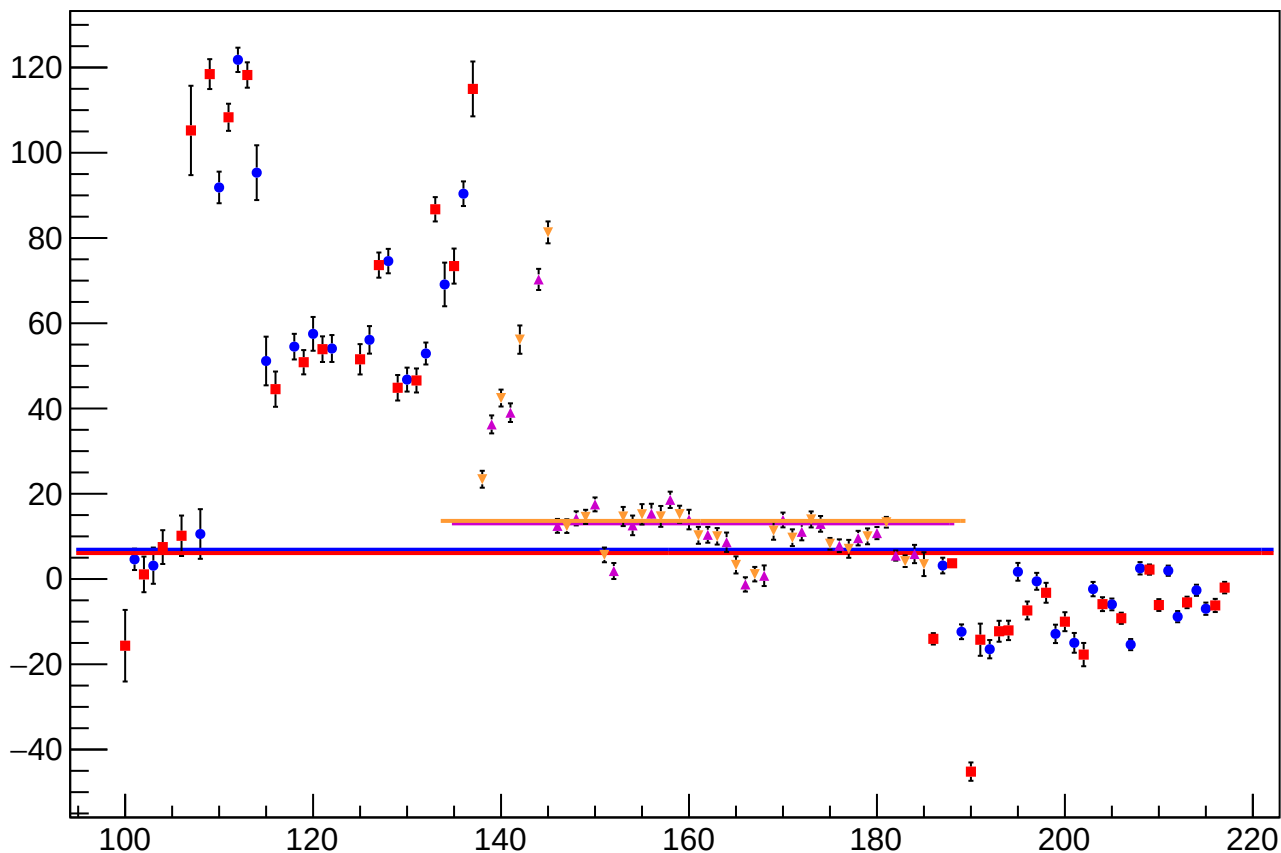
Right: 8.198 ± 0.253 $\chi^2/\text{NDF}: 888.6/65$

In: 5.028 ± 0.230 $\chi^2/\text{NDF}: 718.0/53$

Out: 5.611 ± 0.227 $\chi^2/\text{NDF}: 715.7/58$

All: 5.323 ± 0.161 $\chi^2/\text{NDF}: 1436.9/112$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.871 ± 0.367 $\chi^2/\text{NDF}: 6490.2/30$

Left Out: 13.632 ± 0.382 $\chi^2/\text{NDF}: 1300.0/23$

Right Out: 6.085 ± 0.348 $\chi^2/\text{NDF}: 8163.6/34$

Left In: 13.058 ± 0.380 $\chi^2/\text{NDF}: 1024.7/22$

Left: 13.344 ± 0.269 $\chi^2/\text{NDF}: 2325.9/46$

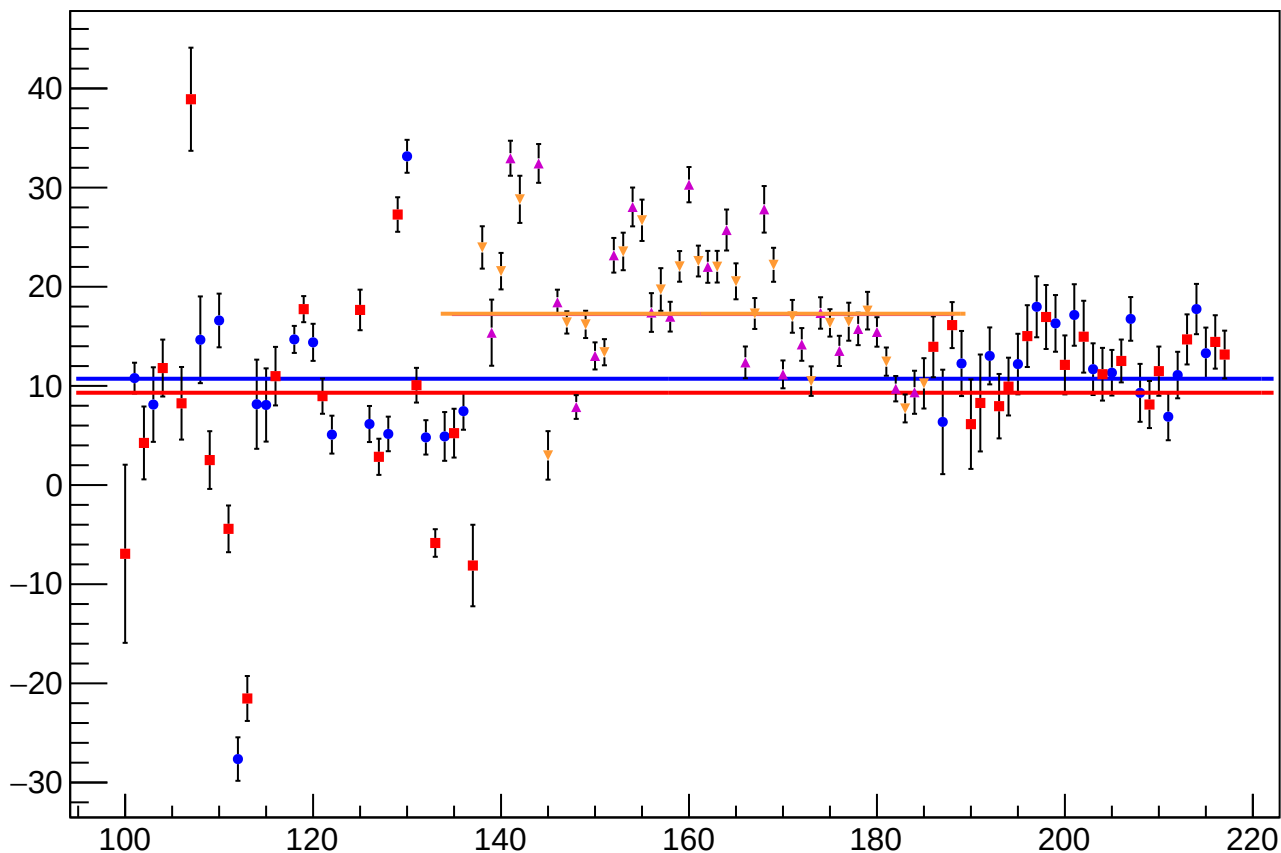
Right: 6.458 ± 0.253 $\chi^2/\text{NDF}: 14656.2/65$

In: 9.856 ± 0.264 $\chi^2/\text{NDF}: 7652.3/53$

Out: 9.513 ± 0.257 $\chi^2/\text{NDF}: 9676.9/58$

All: 9.680 ± 0.184 $\chi^2/\text{NDF}: 17330.0/112$

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.721 ± 0.412 $\chi^2/\text{NDF}: 587.7/30$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 9.310 ± 0.412 $\chi^2/\text{NDF}: 617.9/34$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

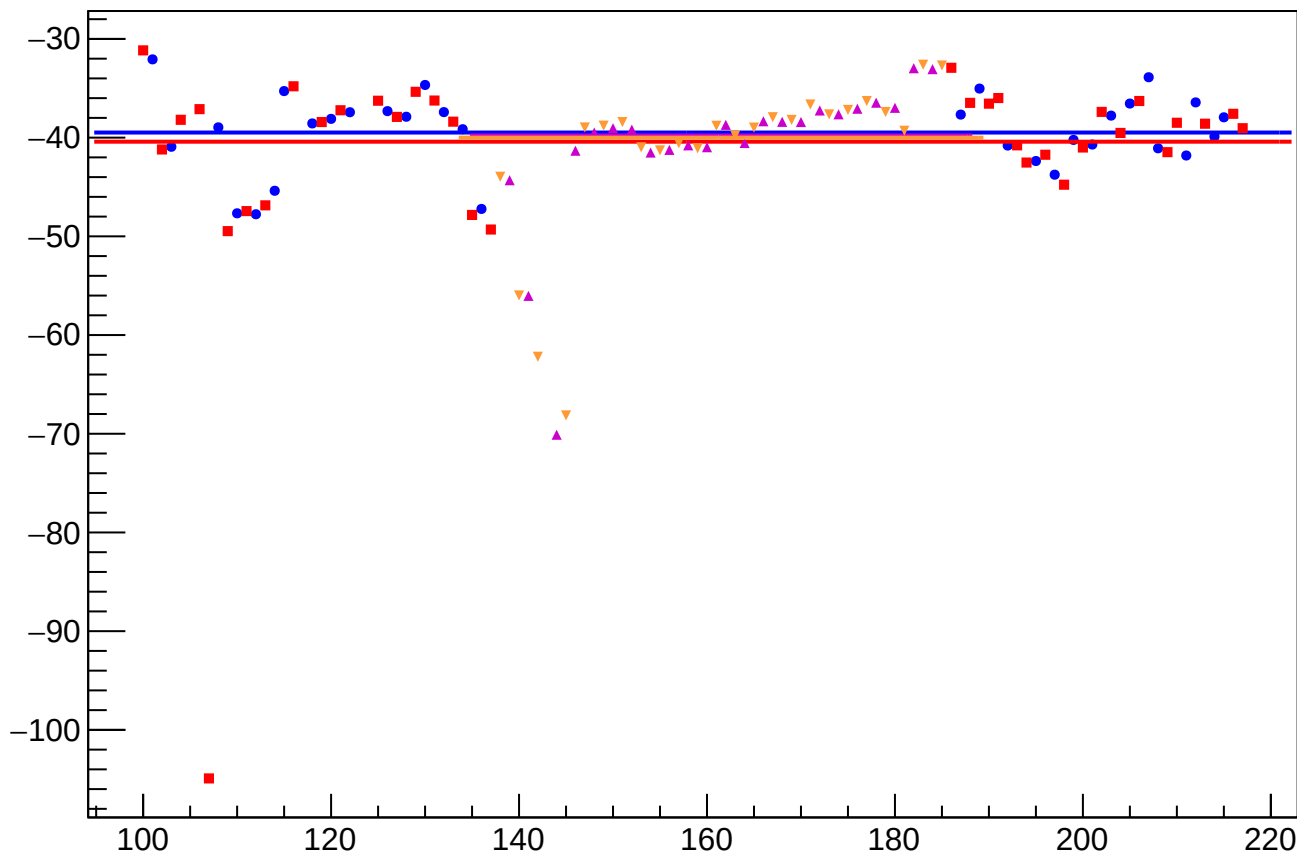
Right: 10.015 ± 0.291 $\chi^2/\text{NDF}: 1211.5/65$

In: 14.607 ± 0.262 $\chi^2/\text{NDF}: 1177.9/53$

Out: 14.080 ± 0.261 $\chi^2/\text{NDF}: 1086.2/58$

All: 14.342 ± 0.185 $\chi^2/\text{NDF}: 2266.1/112$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.483 ± 0.020 χ^2/NDF : 37900.9/30

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.412 ± 0.020 χ^2/NDF : 107796.0/34

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

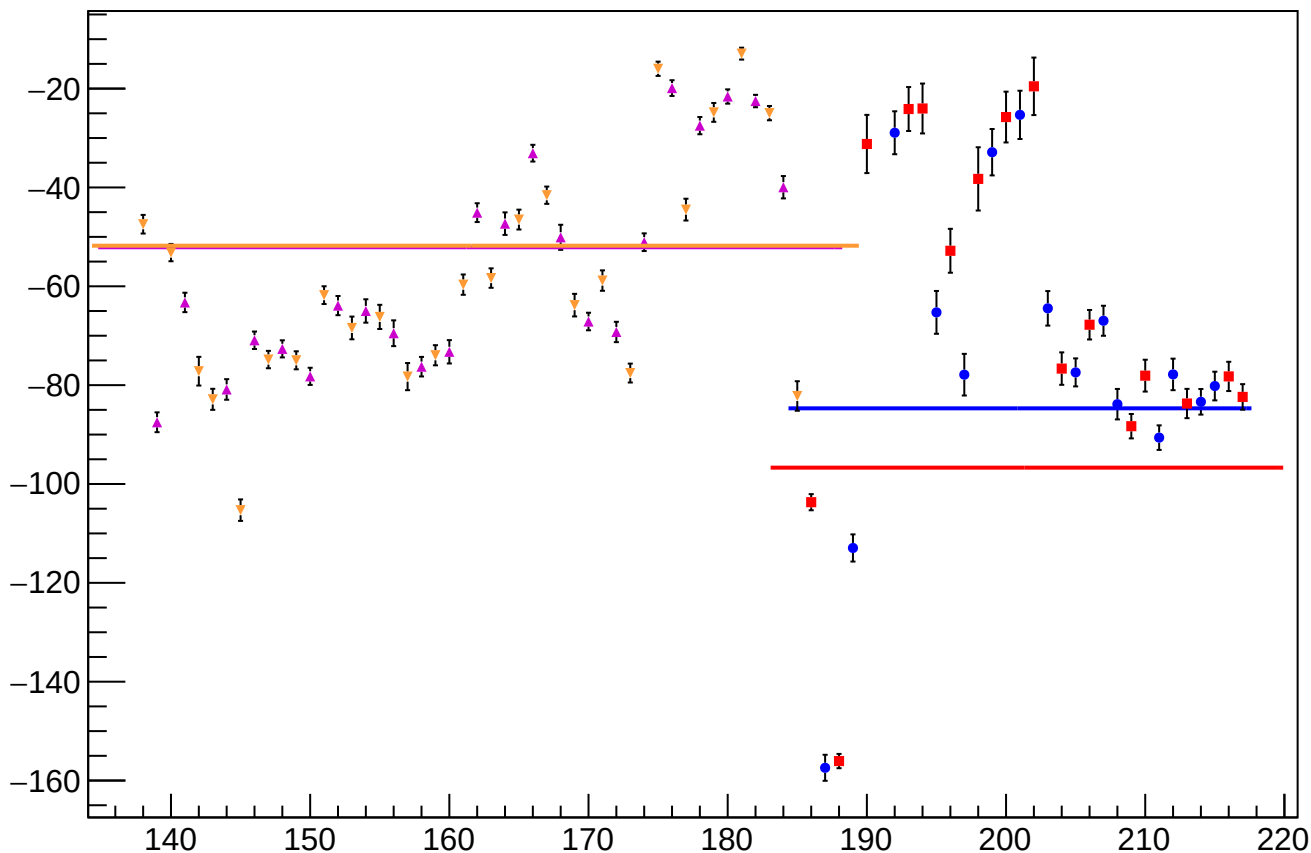
Right: -39.954 ± 0.014 χ^2/NDF : 146741.8/65

In: -39.673 ± 0.012 χ^2/NDF : 182532.7/53

Out: -40.156 ± 0.012 χ^2/NDF : 280319.4/58

All: -39.915 ± 0.009 χ^2/NDF : 463605.6/112

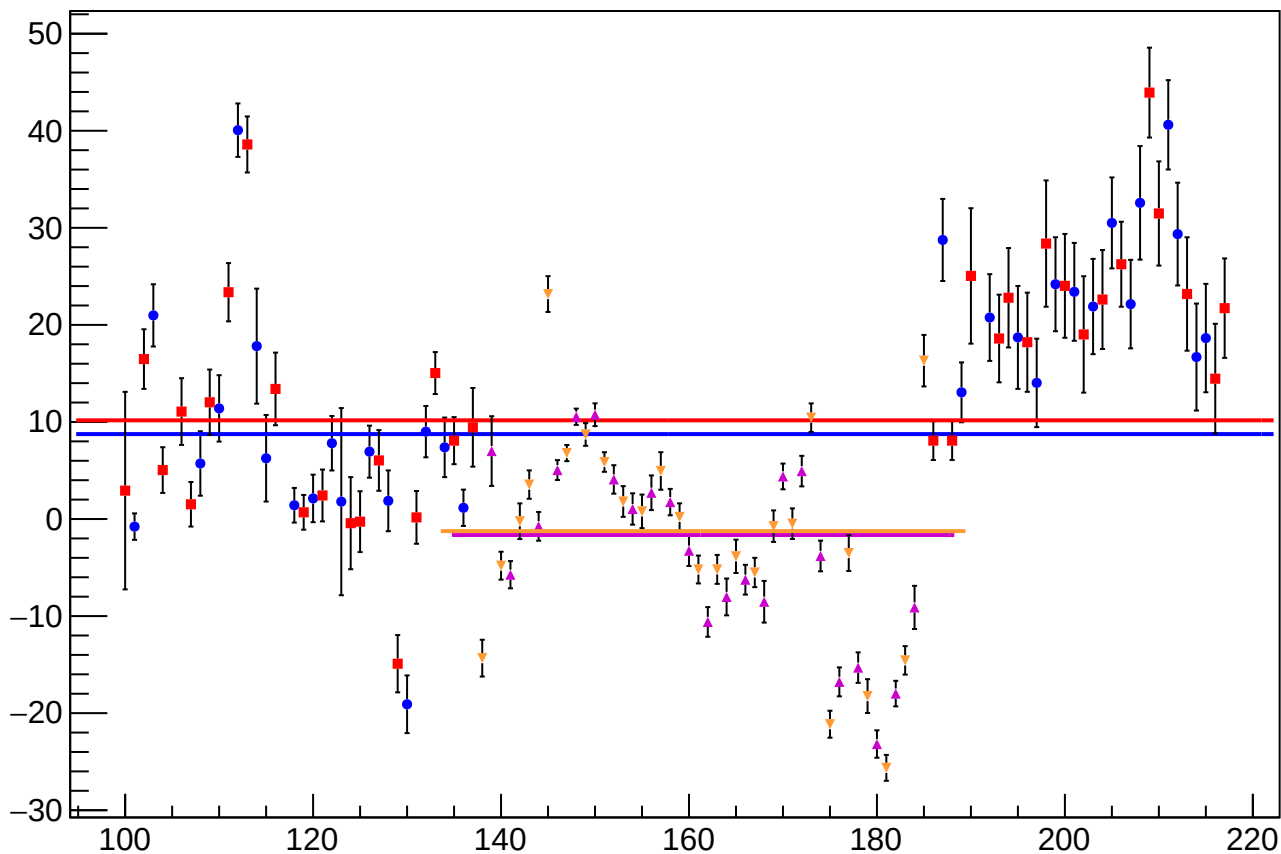
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -84.692 ± 0.823 $\chi^2/\text{NDF}: 1413.9/14$
 Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$
 Right Out: -96.693 ± 0.714 $\chi^2/\text{NDF}: 3114.1/15$
 Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$
 Right: -91.537 ± 0.540 $\chi^2/\text{NDF}: 4649.2/30$
 In: -58.043 ± 0.351 $\chi^2/\text{NDF}: 5975.4/37$
 Out: -61.795 ± 0.337 $\chi^2/\text{NDF}: 10348.7/40$
 All: -59.996 ± 0.243 $\chi^2/\text{NDF}: 16383.4/78$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.750 ± 0.557 $\chi^2/\text{NDF}: 508.9/31$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.168 ± 0.545 $\chi^2/\text{NDF}: 421.4/34$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

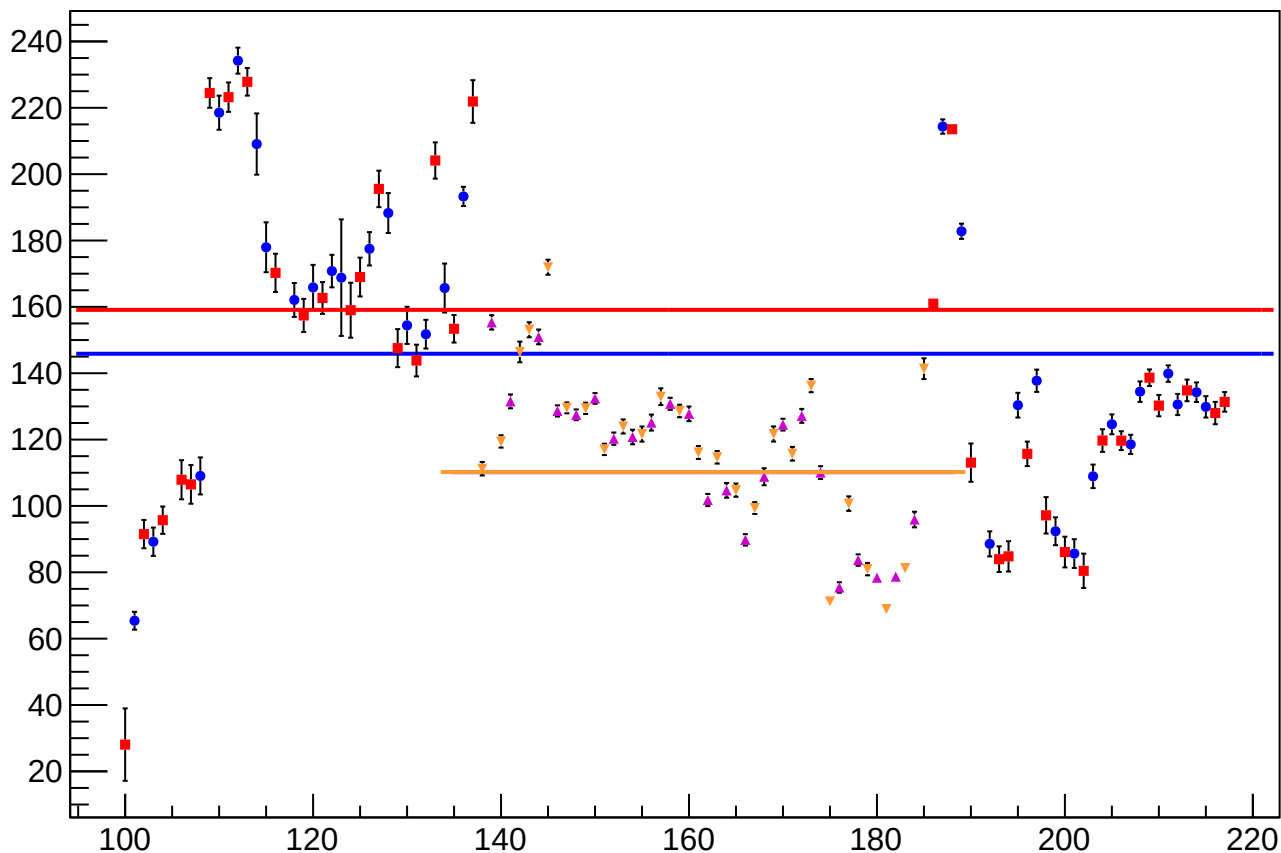
Right: 9.474 ± 0.390 $\chi^2/\text{NDF}: 933.6/66$

In: 0.688 ± 0.264 $\chi^2/\text{NDF}: 1871.0/54$

Out: 1.293 ± 0.257 $\chi^2/\text{NDF}: 2084.5/59$

All: 0.999 ± 0.184 $\chi^2/\text{NDF}: 3958.2/114$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 145.874 $\pm$ 0.647 χ^2 /NDF: 4511.2/31

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 159.096 $\pm$ 0.564 χ^2 /NDF: 6073.1/34

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

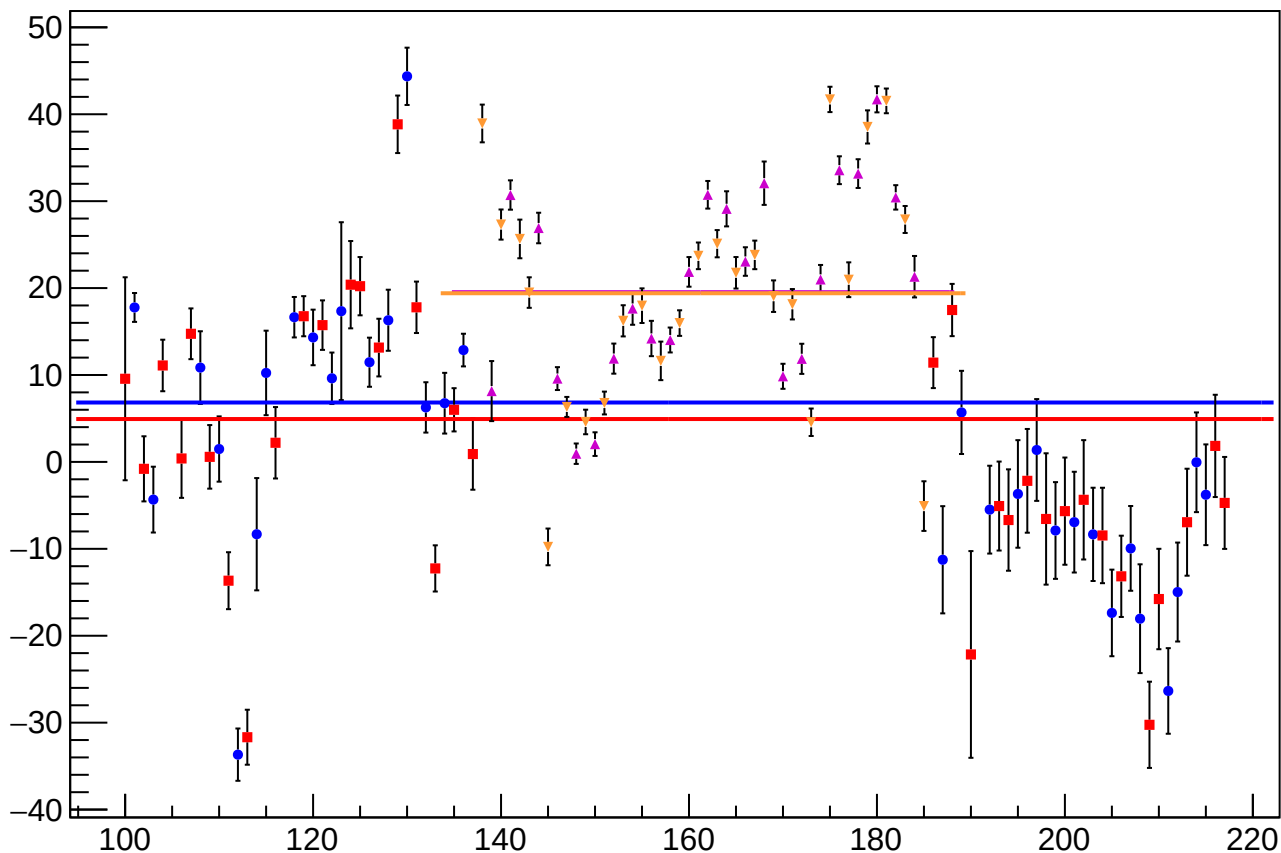
Right: 153.395 $\pm$ 0.425 χ^2 /NDF: 10821.7/66

In: 119.535 $\pm$ 0.332 χ^2 /NDF:10457.8/54

Out: 125.602 $\pm$ 0.316 χ^2 /NDF:15821.1/59

All: 122.712 $\pm$ 0.229 χ^2 /NDF: 26454.3/114

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.834 ± 0.642 χ^2/NDF : 572.6/31

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 4.933 ± 0.643 χ^2/NDF : 566.3/34

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

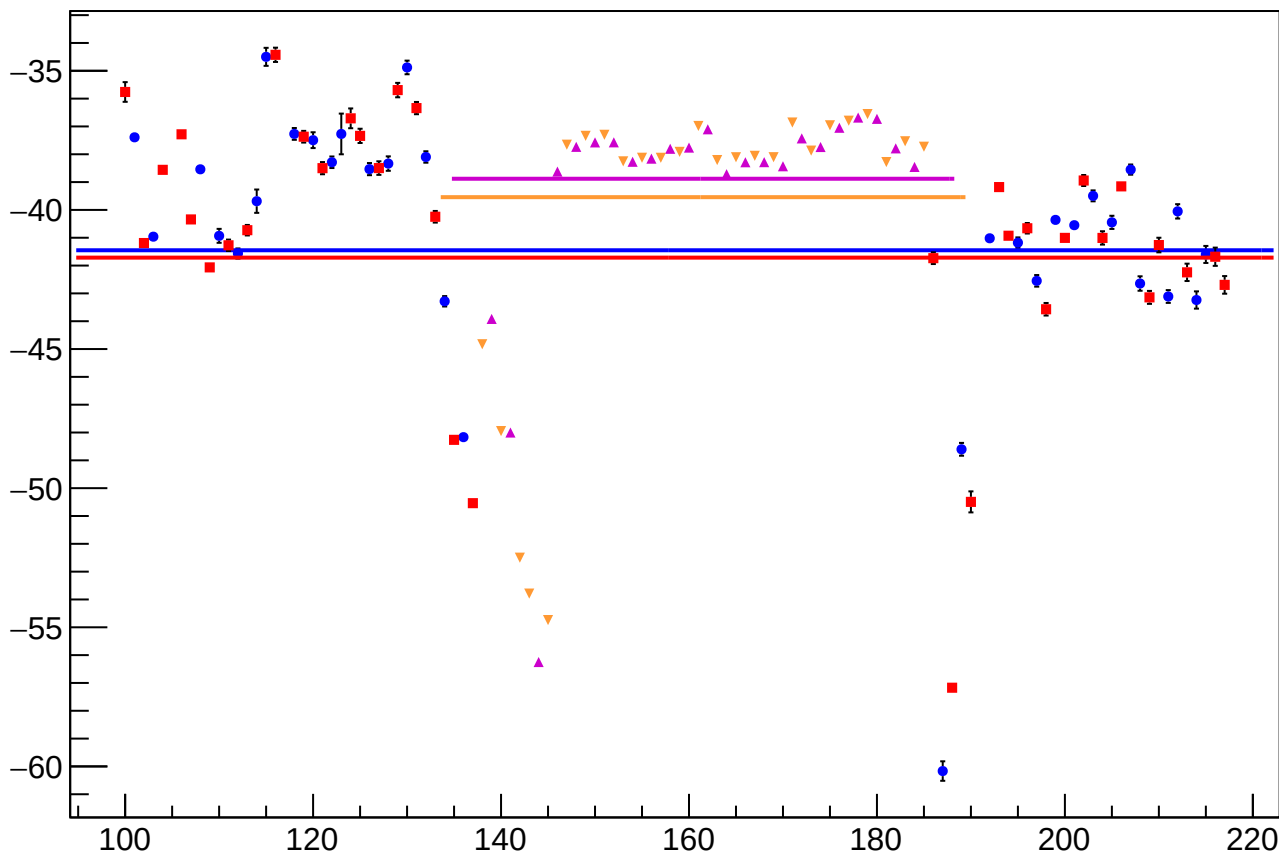
Right: 5.885 ± 0.454 χ^2/NDF : 1143.3/66

In: 16.717 ± 0.302 χ^2/NDF : 2058.4/54

Out: 16.319 ± 0.297 χ^2/NDF : 2418.4/59

All: 16.515 ± 0.212 χ^2/NDF : 4477.7/114

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.450 ± 0.032 $\chi^2/\text{NDF}: 16956.6/31$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.715 ± 0.031 $\chi^2/\text{NDF}: 23123.4/34$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

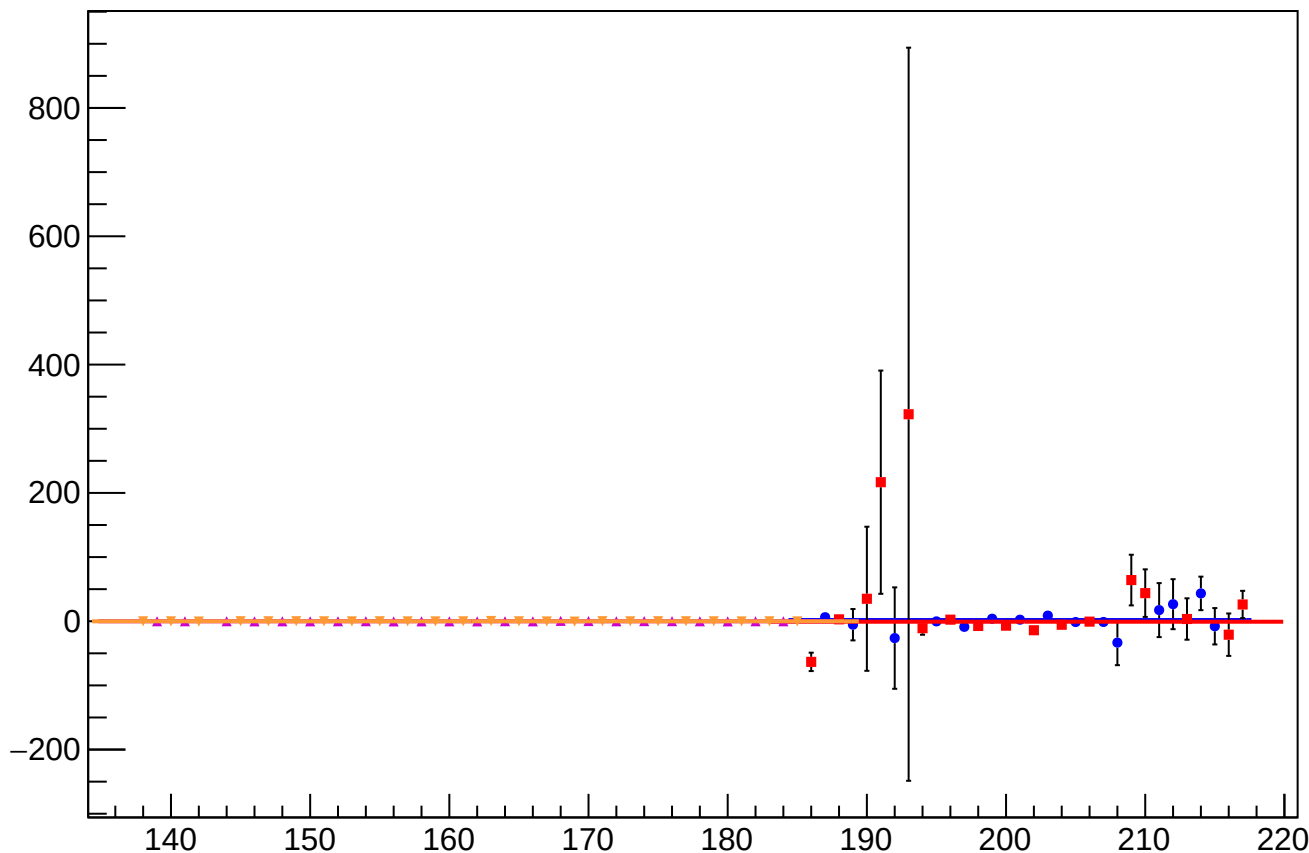
Right: -41.584 ± 0.022 $\chi^2/\text{NDF}: 40115.7/66$

In: -39.399 ± 0.014 $\chi^2/\text{NDF}: 75671.9/54$

Out: -39.983 ± 0.014 $\chi^2/\text{NDF}: 119019.8/59$

All: -39.694 ± 0.010 $\chi^2/\text{NDF}: 195547.4/114$

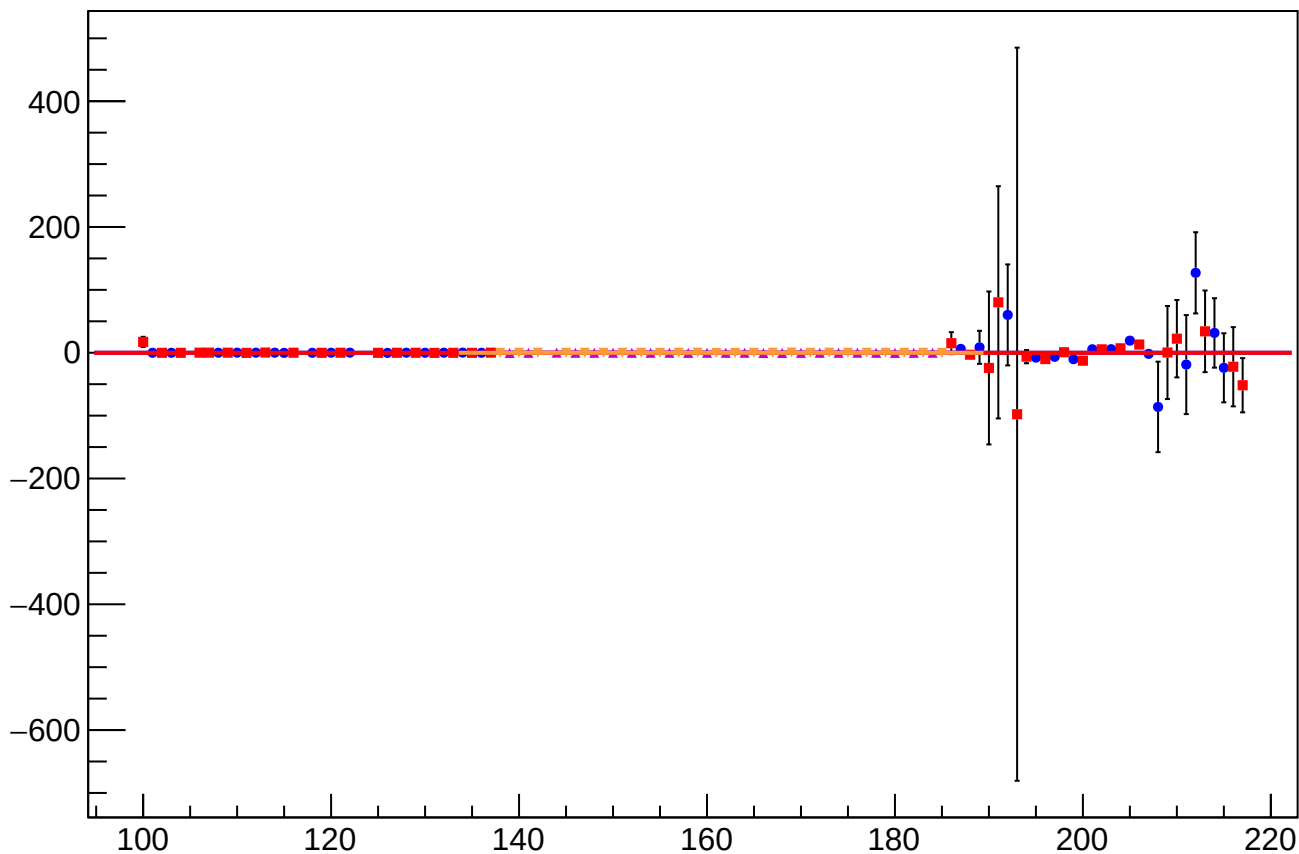
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.869 ± 1.529 $\chi^2/\text{NDF}: 15.4/14$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.754 ± 1.414 $\chi^2/\text{NDF}: 38.7/16$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.455 ± 1.038 $\chi^2/\text{NDF}: 55.7/31$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 50.3/37$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 78.6/40$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 133.0/78$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.8/30

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.1/34

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

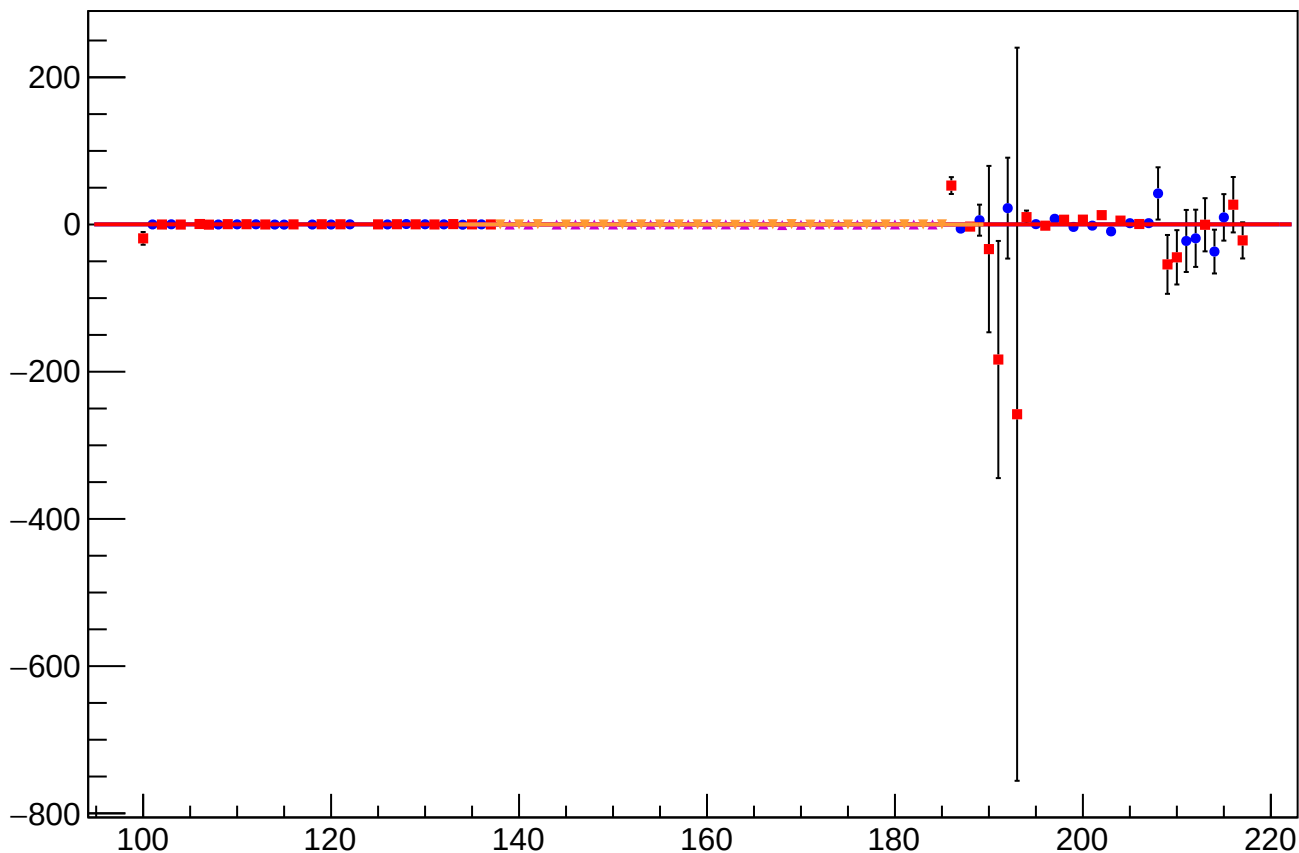
Right: -0.025 ± 0.020 χ^2/NDF : 82.2/65

In: -0.038 ± 0.015 χ^2/NDF : 71.8/53

Out: -0.073 ± 0.015 χ^2/NDF : 69.7/58

All: -0.056 ± 0.011 χ^2/NDF : 144.2/112

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 30.7/30

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 61.6/34

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

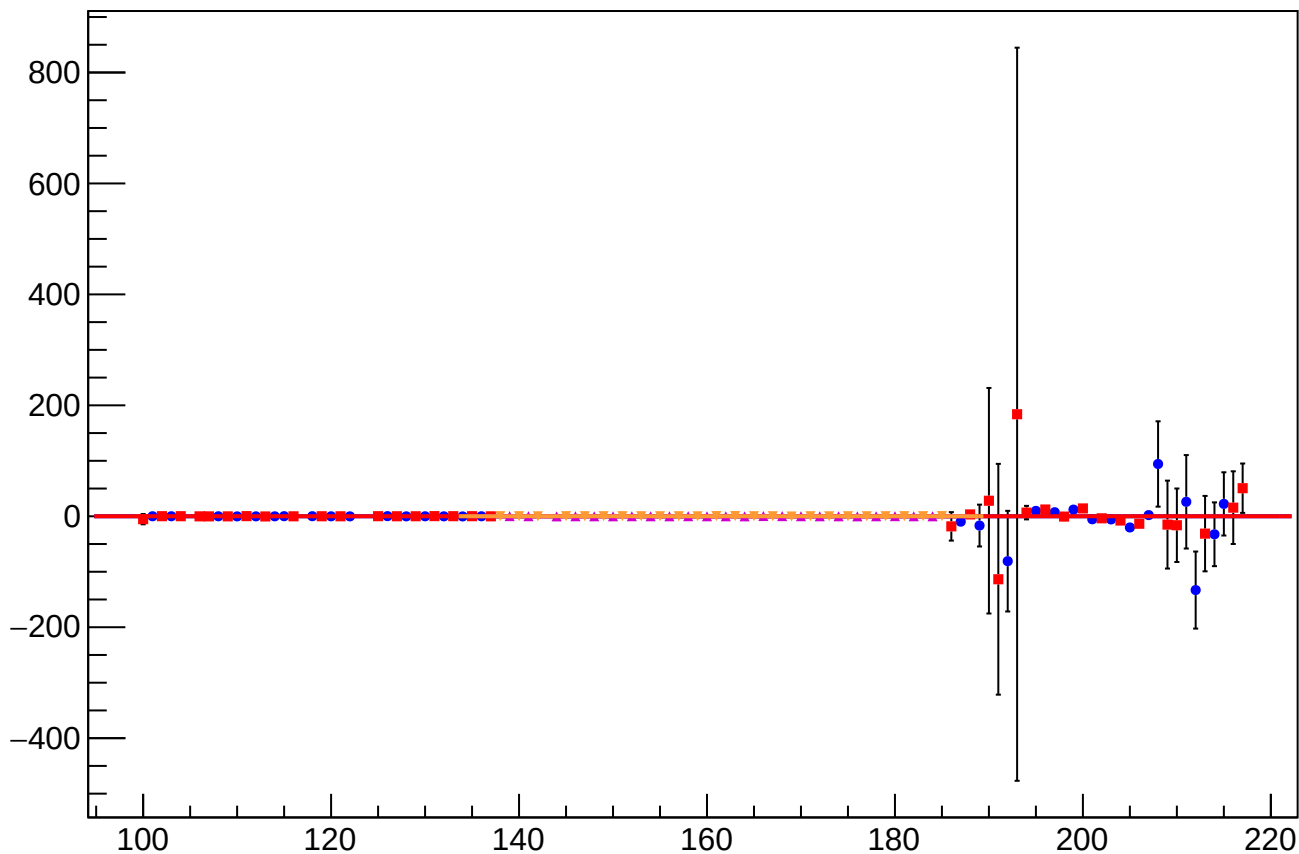
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 93.0/65

In: 0.043 $\pm$ 0.020 χ^2 /NDF:73.4/53

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:107.0/58

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 184.7/112

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 39.2/30$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 36.2/34$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

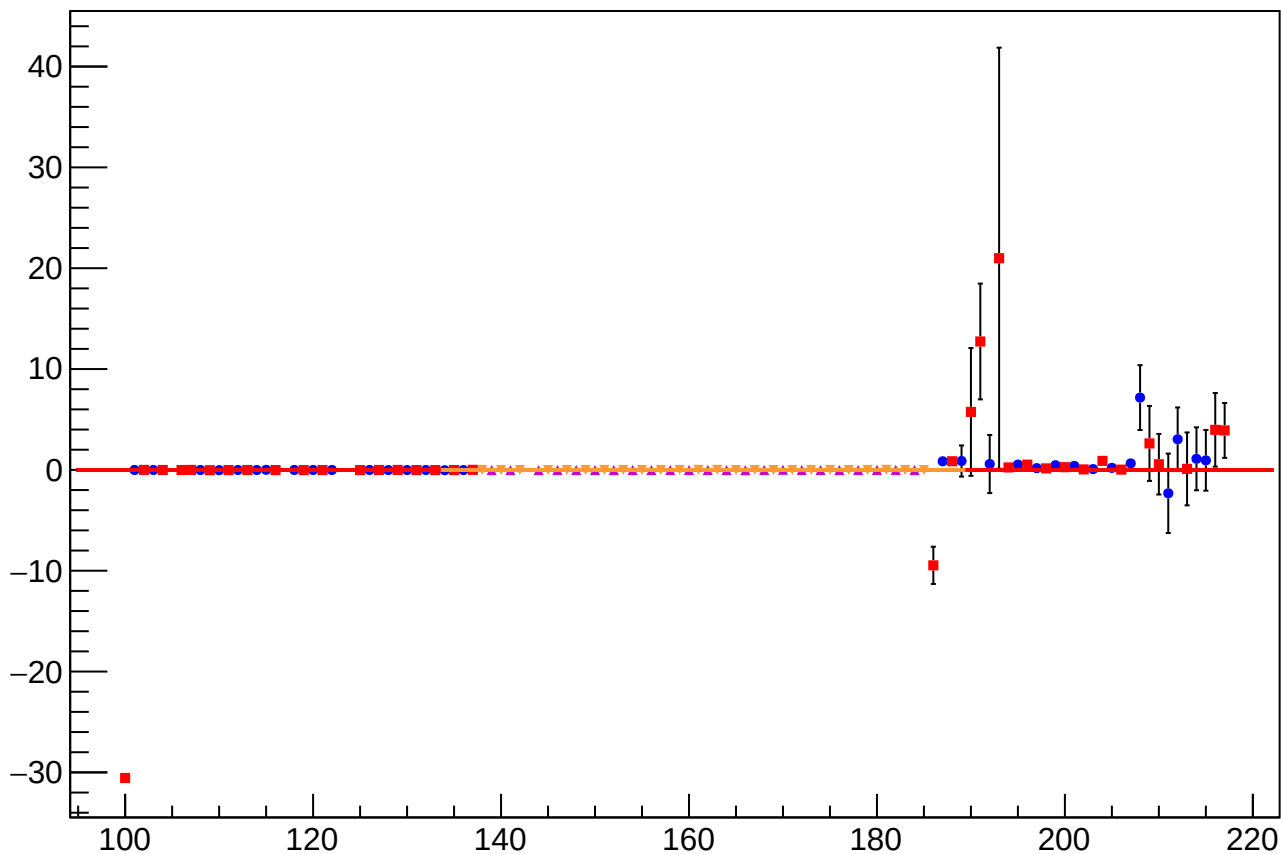
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 77.3/65$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 74.4/53$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 67.2/58$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 145.1/112$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 48.1/30

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.1/34

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

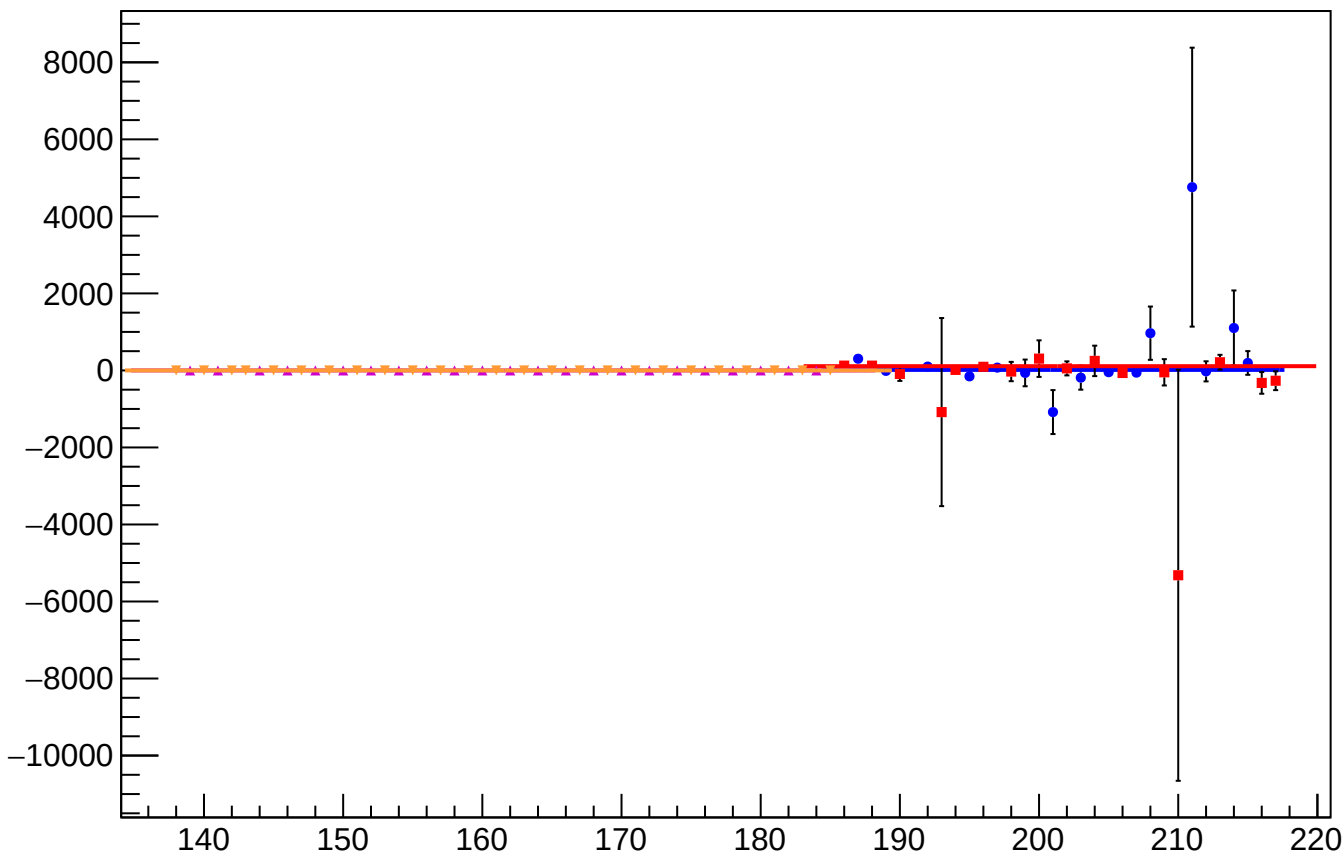
Right: -0.012 ± 0.001 χ^2/NDF : 12006.2/65

In: -0.009 ± 0.001 χ^2/NDF : 91.1/53

Out: -0.009 ± 0.001 χ^2/NDF : 11992.0/58

All: -0.009 ± 0.001 χ^2/NDF : 12083.3/112

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.828+/-25.808 χ^2/NDF : 25.5/14

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 110.162+/-16.049 χ^2/NDF : 13.6/15

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

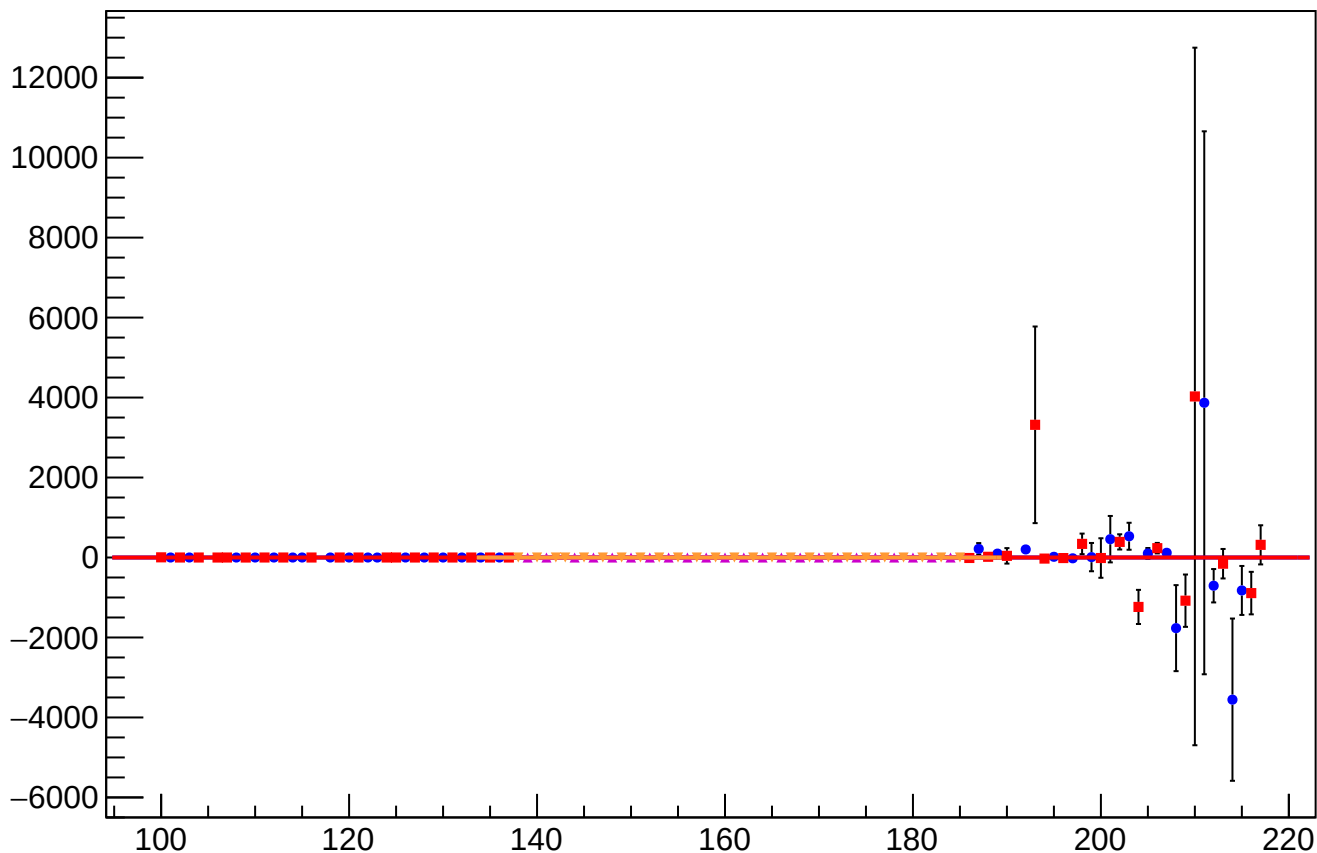
Right: 83.298+/-13.629 χ^2/NDF : 49.2/30

In: 0.002+/-0.028 χ^2/NDF :54.8/37

Out: 0.018+/-0.027 χ^2/NDF :91.7/40

All: 0.010+/-0.019 χ^2/NDF : 146.7/78

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 49.8/31$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 44.6/34$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

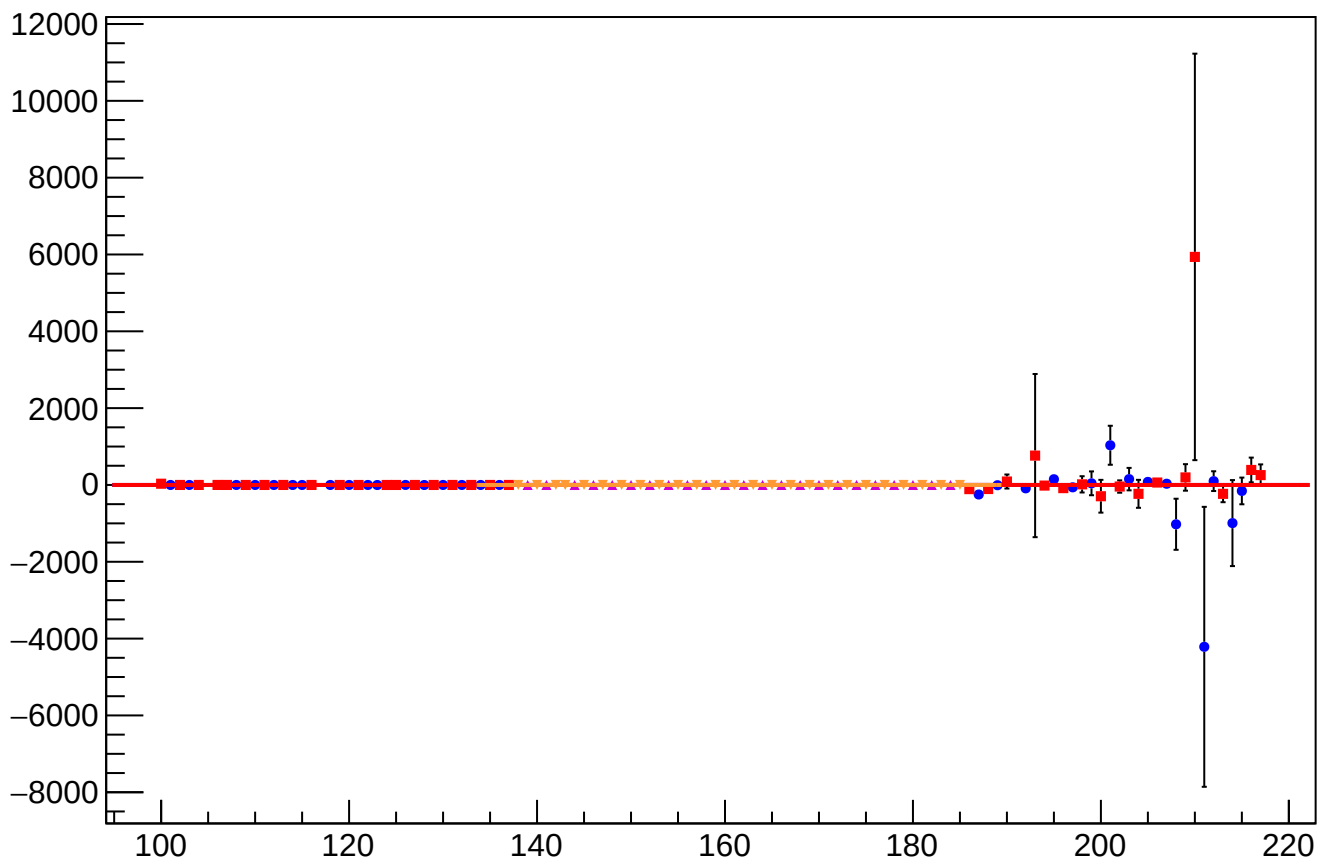
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 97.7/66$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.1/54$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 71.1/59$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 171.5/114$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 51.0/31

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 84.1/34

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

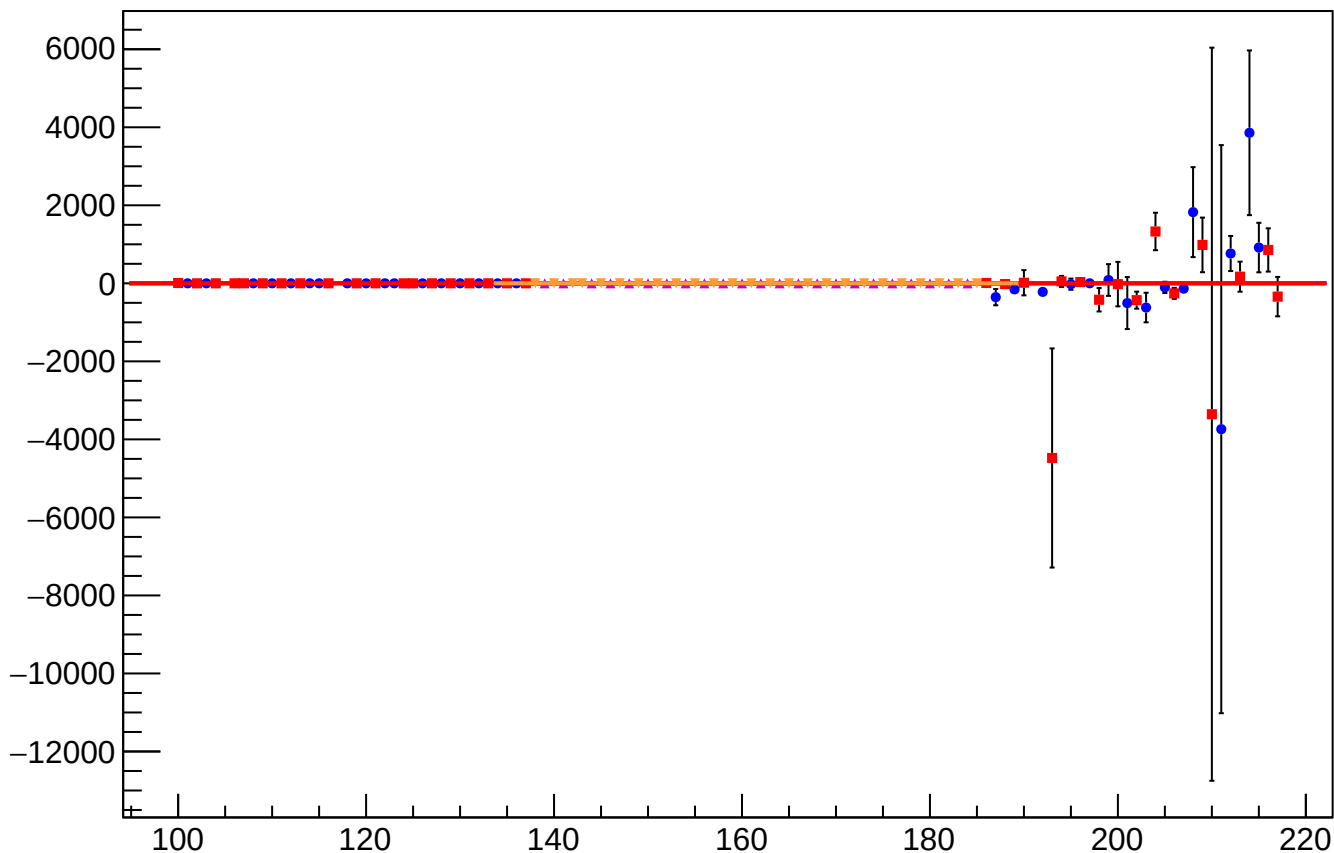
Right: -0.150 ± 0.049 χ^2/NDF : 135.2/66

In: -0.047 ± 0.025 χ^2/NDF : 81.4/54

Out: -0.037 ± 0.025 χ^2/NDF : 117.0/59

All: -0.042 ± 0.018 χ^2/NDF : 198.5/114

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.2/31

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 41.8/34

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

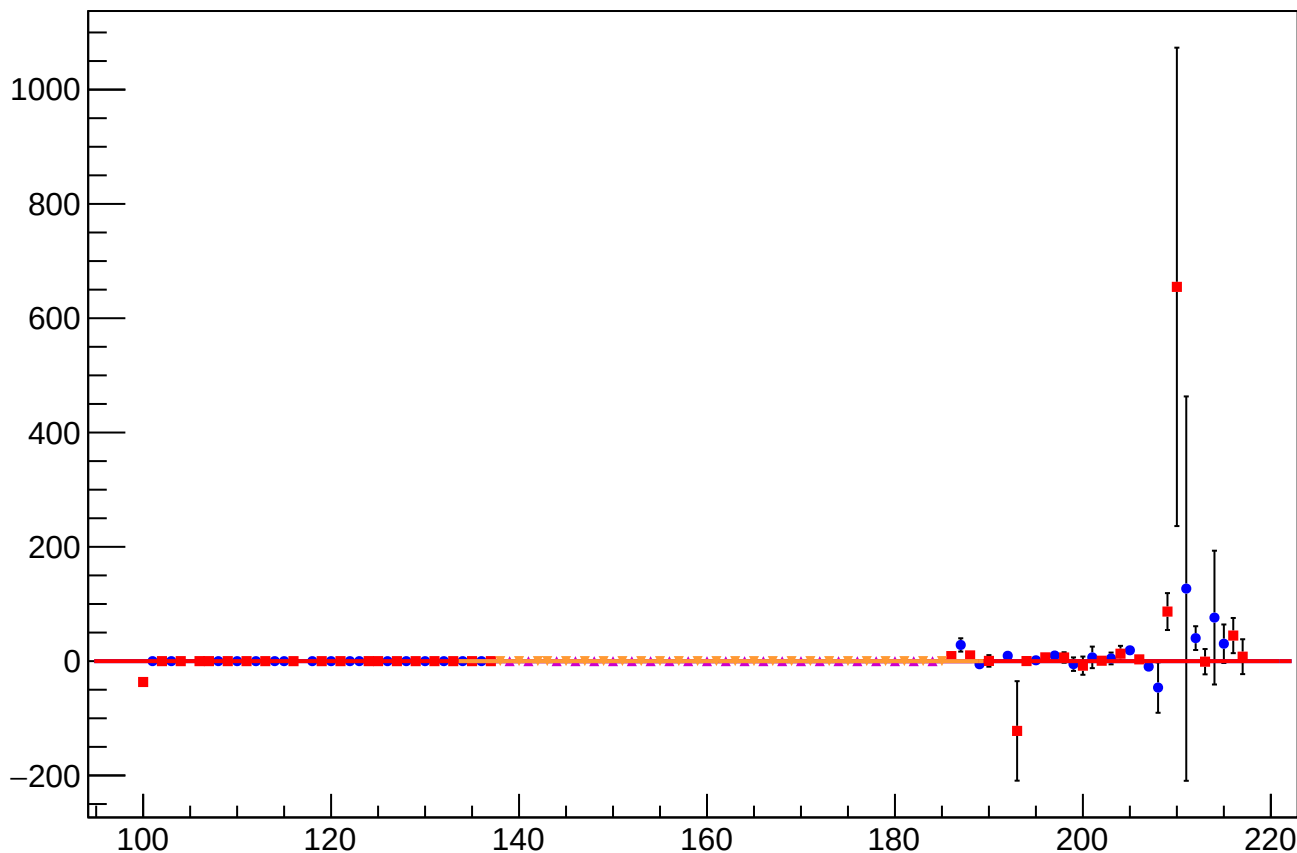
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 95.0/66

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.0/54

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:68.9/59

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 171.6/114

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.2/31

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10486.2/34

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

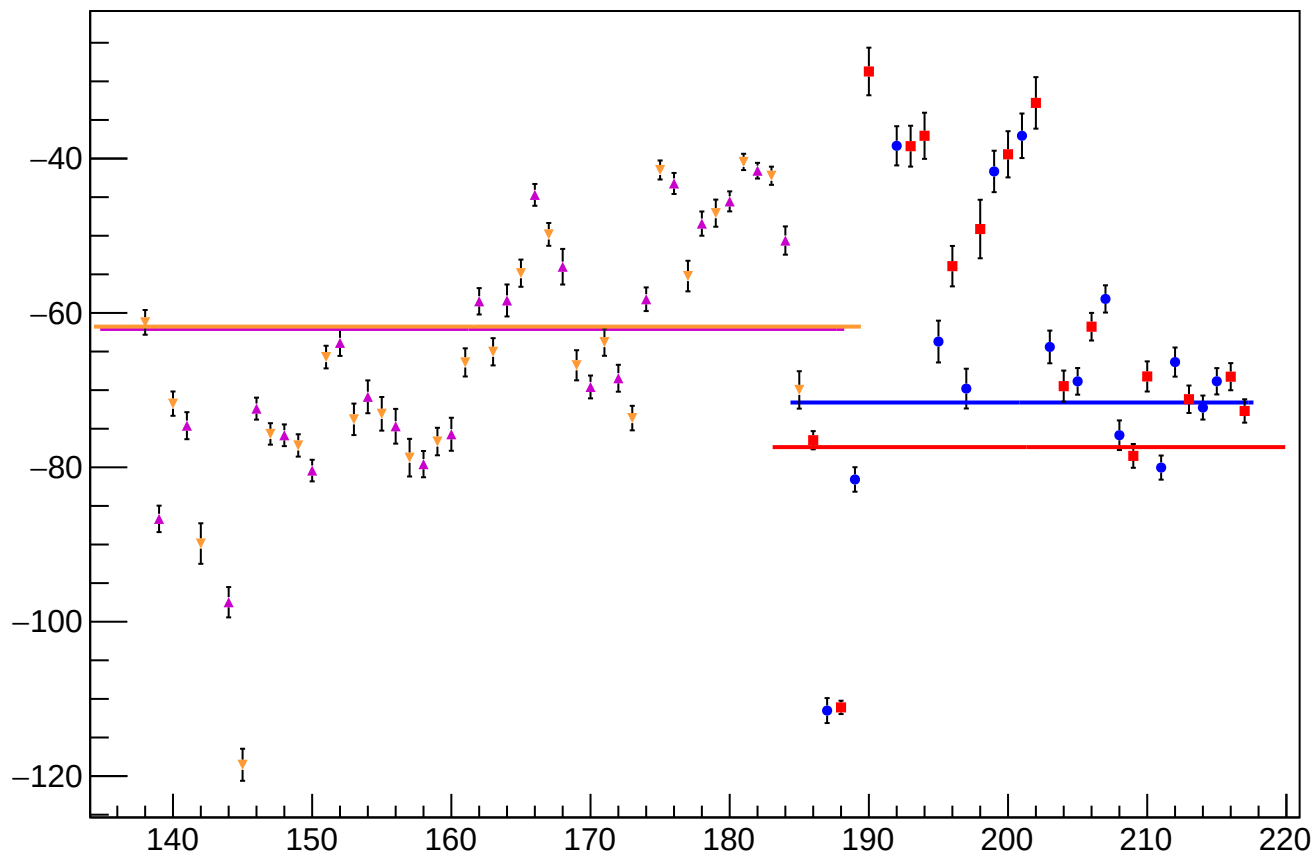
Right: 0.001+/-0.002 χ^2/NDF : 10555.4/66

In: 0.007+/-0.001 χ^2/NDF : 93.7/54

Out: 0.007+/-0.001 χ^2/NDF : 10521.4/59

All: 0.007+/-0.001 χ^2/NDF : 10615.2/114

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.604 ± 0.495 $\chi^2/\text{NDF}: 1213.2/14$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -77.382 ± 0.440 $\chi^2/\text{NDF}: 2809.4/15$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

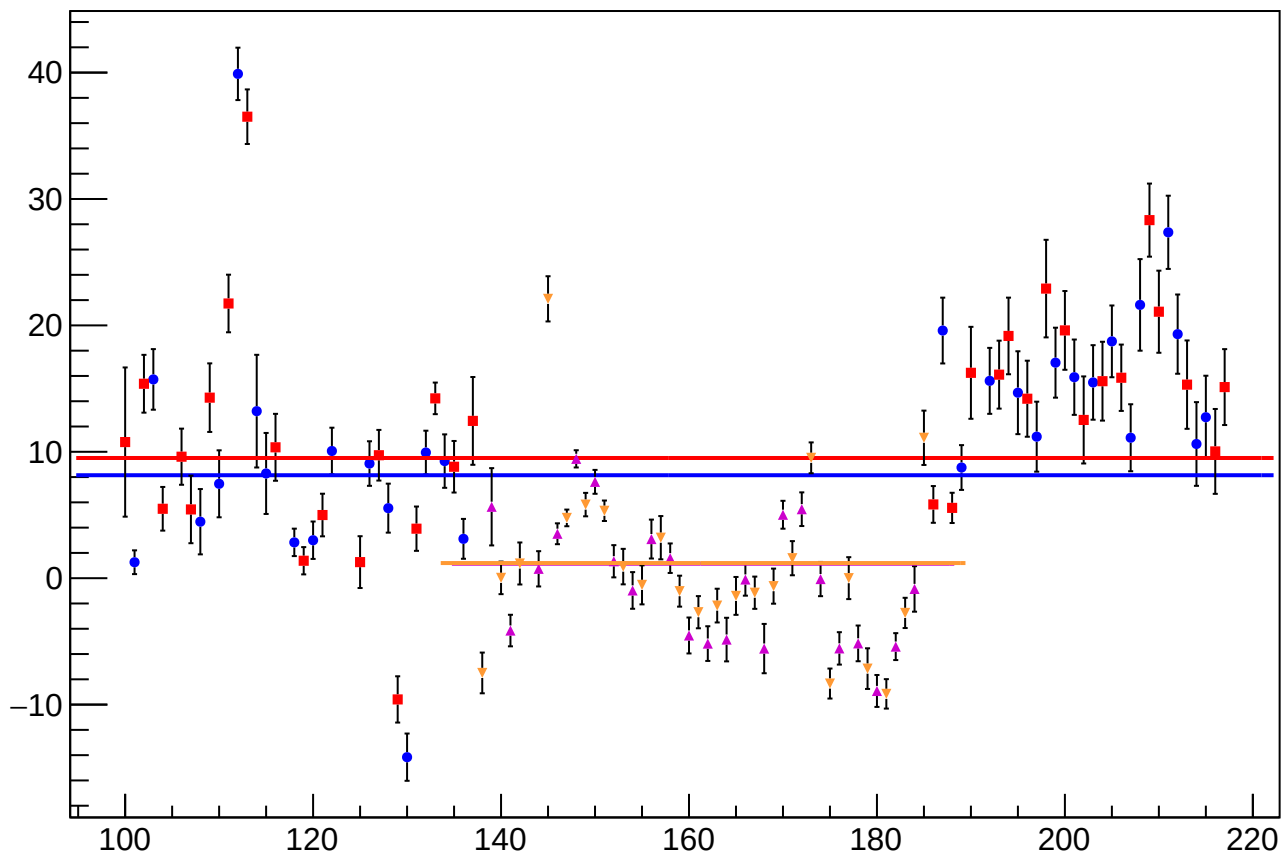
Right: -74.829 ± 0.329 $\chi^2/\text{NDF}: 4098.7/30$

In: -65.034 ± 0.276 $\chi^2/\text{NDF}: 3660.7/37$

Out: -67.468 ± 0.266 $\chi^2/\text{NDF}: 6112.1/39$

All: -66.295 ± 0.192 $\chi^2/\text{NDF}: 9813.1/77$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.147 $\pm$ 0.369 χ^2 /NDF: 639.1/30

Left Out: 1.198 $\pm$ 0.253 χ^2 /NDF: 526.3/23

Right Out: 9.510 $\pm$ 0.366 χ^2 /NDF: 550.5/33

Left In: 1.146 $\pm$ 0.255 χ^2 /NDF: 462.9/22

Left: 1.172 $\pm$ 0.180 χ^2 /NDF: 989.3/46

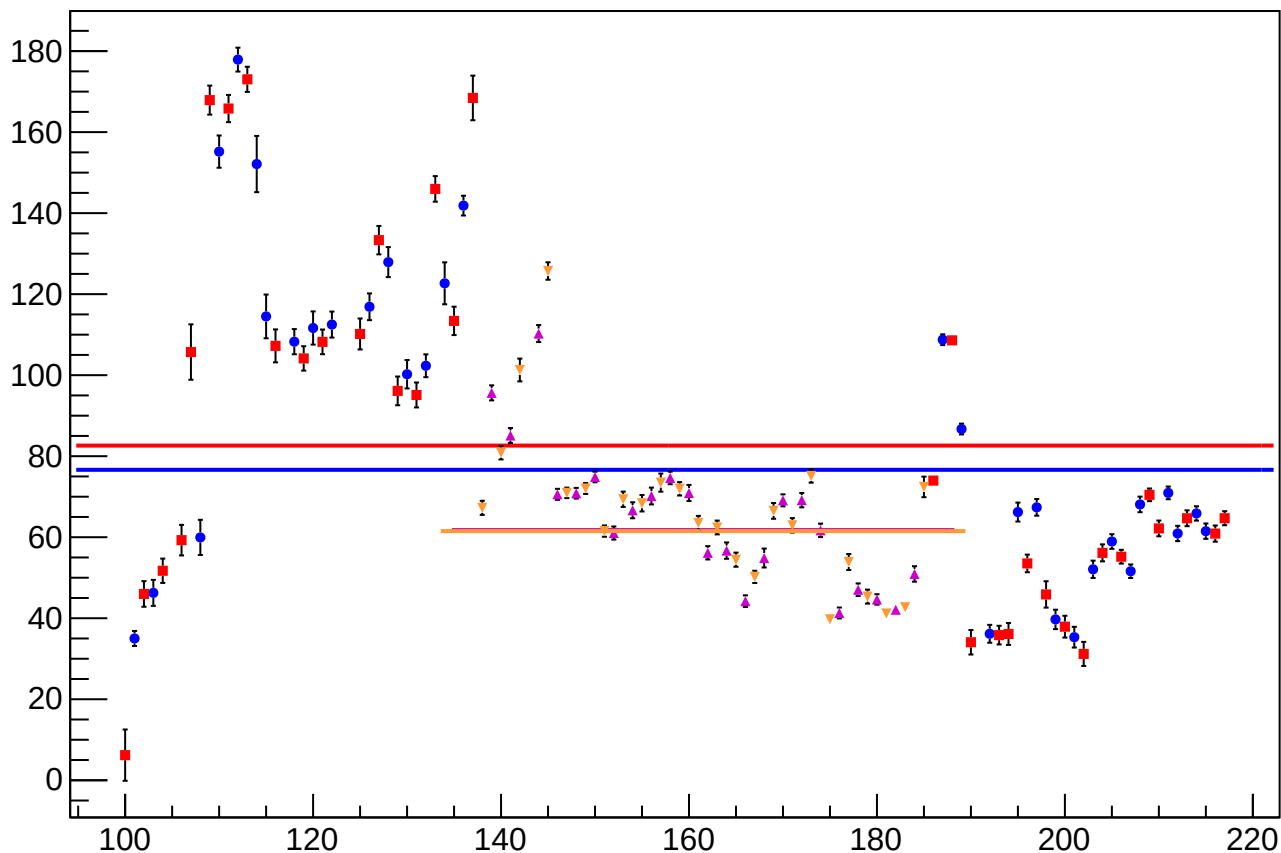
Right: 8.834 $\pm$ 0.260 χ^2 /NDF: 1196.5/64

In: 3.415 $\pm$ 0.210 χ^2 /NDF: 1345.7/53

Out: 3.881 $\pm$ 0.208 χ^2 /NDF: 1426.5/57

All: 3.650 $\pm$ 0.148 χ^2 /NDF: 2774.7/111

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.639 $\pm$ 0.407 χ^2 /NDF: 6076.4/30

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 82.622 $\pm$ 0.360 χ^2 /NDF: 7864.4/33

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

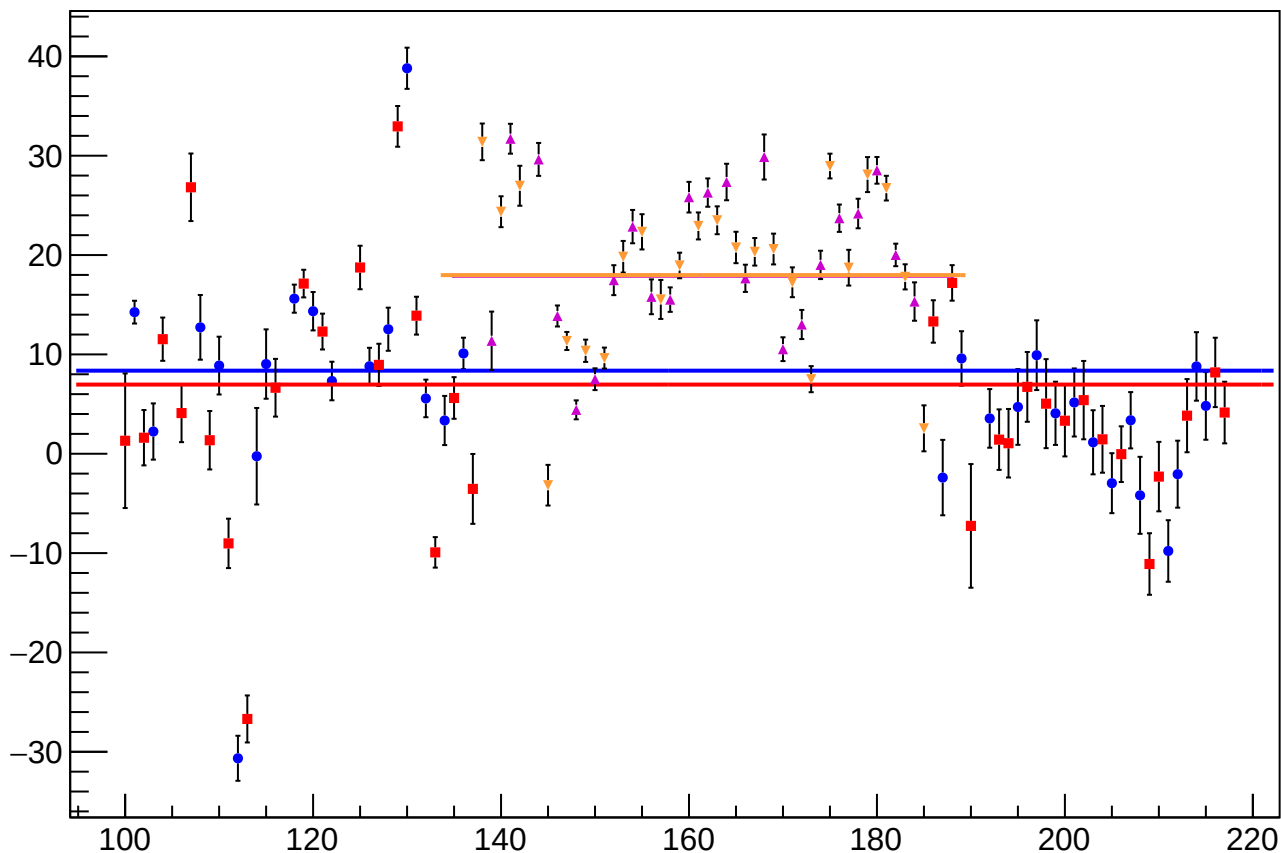
Right: 79.998 $\pm$ 0.270 χ^2 /NDF: 14061.9/64

In: 67.655 $\pm$ 0.256 χ^2 /NDF:9299.9/53

Out: 71.221 $\pm$ 0.244 χ^2 /NDF:12326.3/57

All: 69.525 $\pm$ 0.177 χ^2 /NDF: 21727.5/111

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.363 ± 0.429 χ^2/NDF : 687.9/30

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.963 ± 0.433 χ^2/NDF : 793.5/33

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

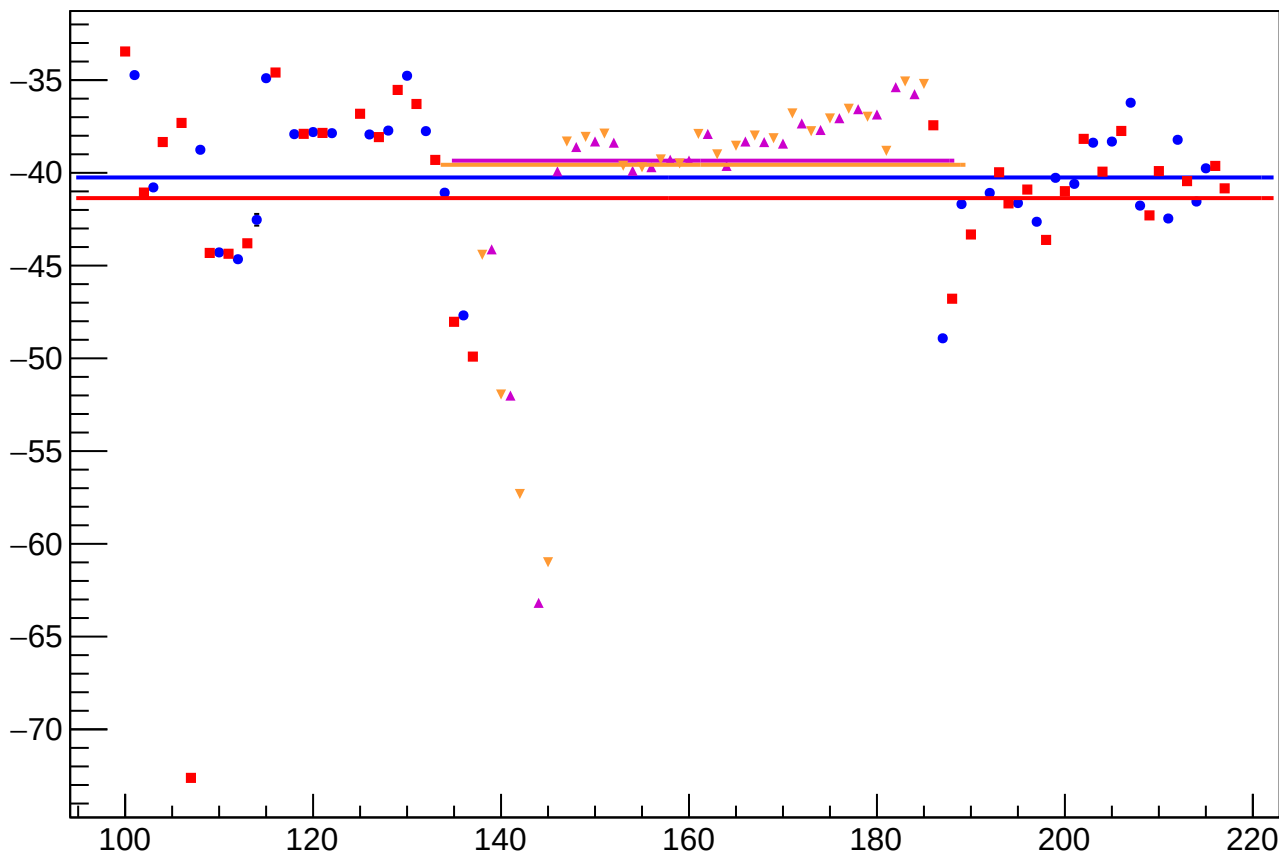
Right: 7.671 ± 0.305 χ^2/NDF : 1486.6/64

In: 14.884 ± 0.242 χ^2/NDF : 1753.3/53

Out: 14.559 ± 0.242 χ^2/NDF : 1913.3/57

All: 14.721 ± 0.171 χ^2/NDF : 3667.5/111

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected

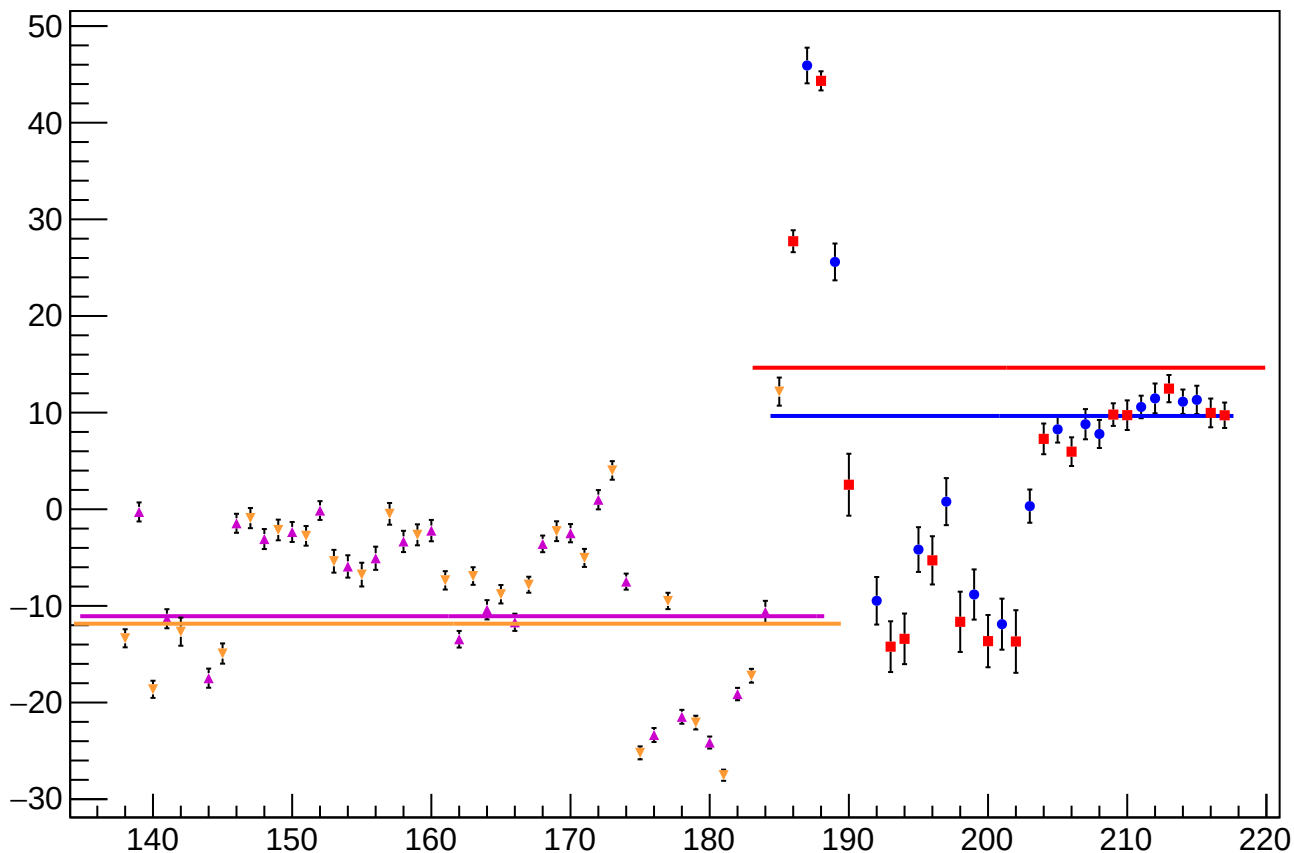


Right In: -40.249 ± 0.021 $\chi^2/\text{NDF}: 29898.2/30$
 Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$
 Right Out: -41.362 ± 0.021 $\chi^2/\text{NDF}: 68795.3/33$
 Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$
 Right: -40.809 ± 0.015 $\chi^2/\text{NDF}: 100072.5/64$
 In: -39.607 ± 0.011 $\chi^2/\text{NDF}: 147800.2/53$
 Out: -40.099 ± 0.012 $\chi^2/\text{NDF}: 215073.1/57$

All: -39.852 ± 0.008 $\chi^2/\text{NDF}: 363793.9/111$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.655 ± 0.431 $\chi^2/\text{NDF}: 720.0/14$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 14.646 ± 0.401 $\chi^2/\text{NDF}: 1711.9/15$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

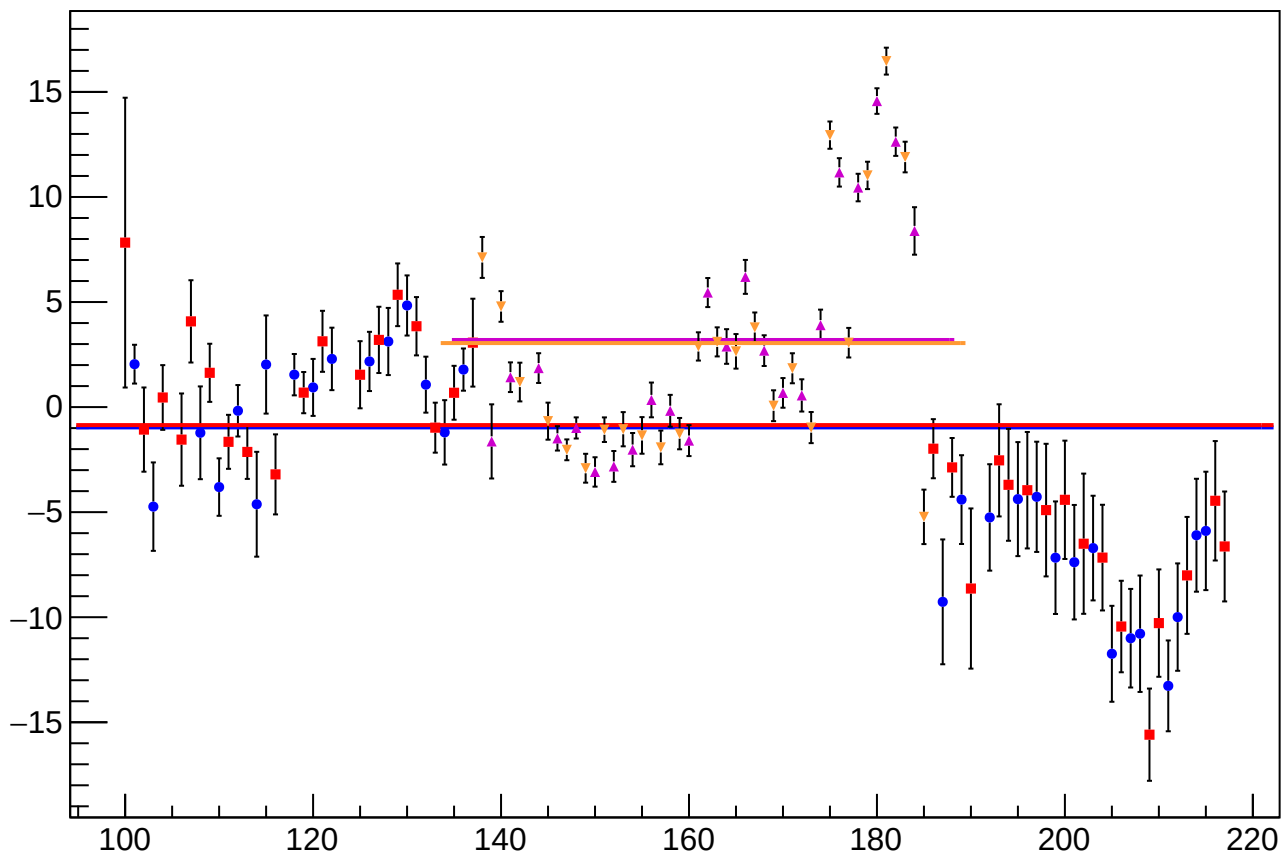
Right: 12.329 ± 0.294 $\chi^2/\text{NDF}: 2503.7/30$

In: -7.754 ± 0.172 $\chi^2/\text{NDF}: 4768.0/37$

Out: -7.119 ± 0.169 $\chi^2/\text{NDF}: 8036.4/39$

All: -7.431 ± 0.121 $\chi^2/\text{NDF}: 12811.2/77$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.967 ± 0.303 χ^2/NDF : 210.9/30

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.857 ± 0.302 χ^2/NDF : 180.7/33

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

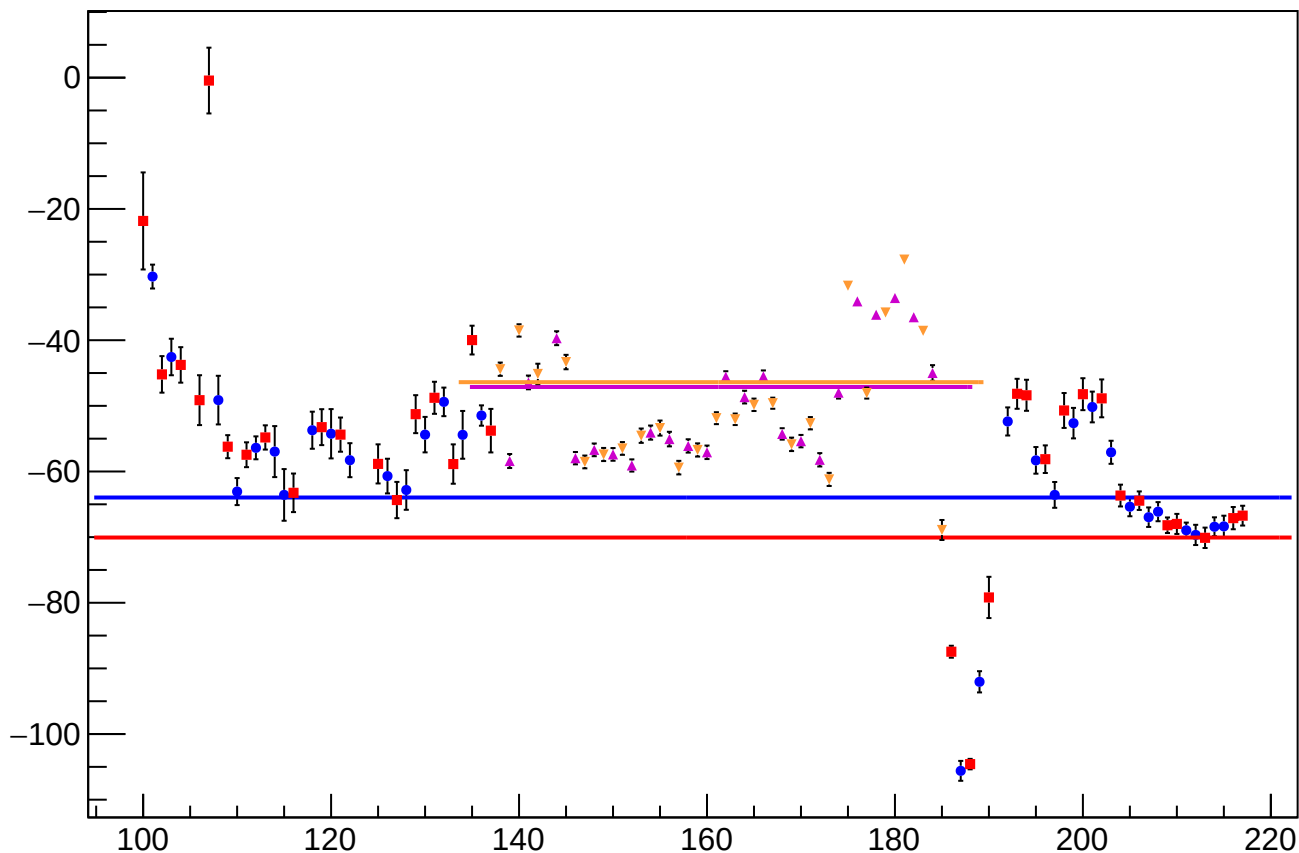
Right: -0.912 ± 0.214 χ^2/NDF : 391.7/64

In: 2.376 ± 0.134 χ^2/NDF : 1657.3/53

Out: 2.294 ± 0.133 χ^2/NDF : 1772.4/57

All: 2.334 ± 0.094 χ^2/NDF : 3429.9/111

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.964 ± 0.348 χ^2/NDF : 1818.9/30

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.061 ± 0.320 χ^2/NDF : 3741.1/33

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

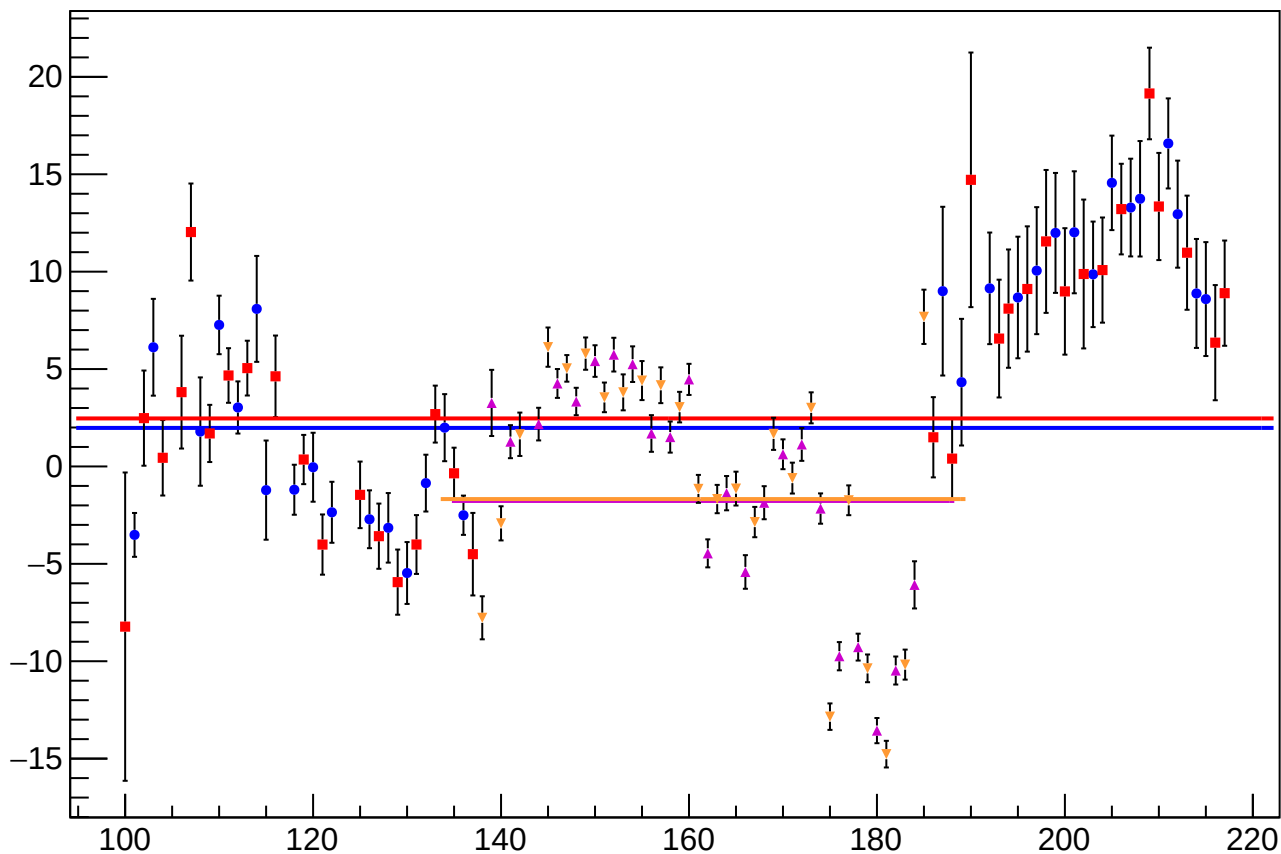
Right: -67.259 ± 0.236 χ^2/NDF : 5726.4/64

In: -50.914 ± 0.165 χ^2/NDF : 6154.1/53

Out: -52.384 ± 0.161 χ^2/NDF : 11102.1/57

All: -51.665 ± 0.115 χ^2/NDF : 17296.9/111

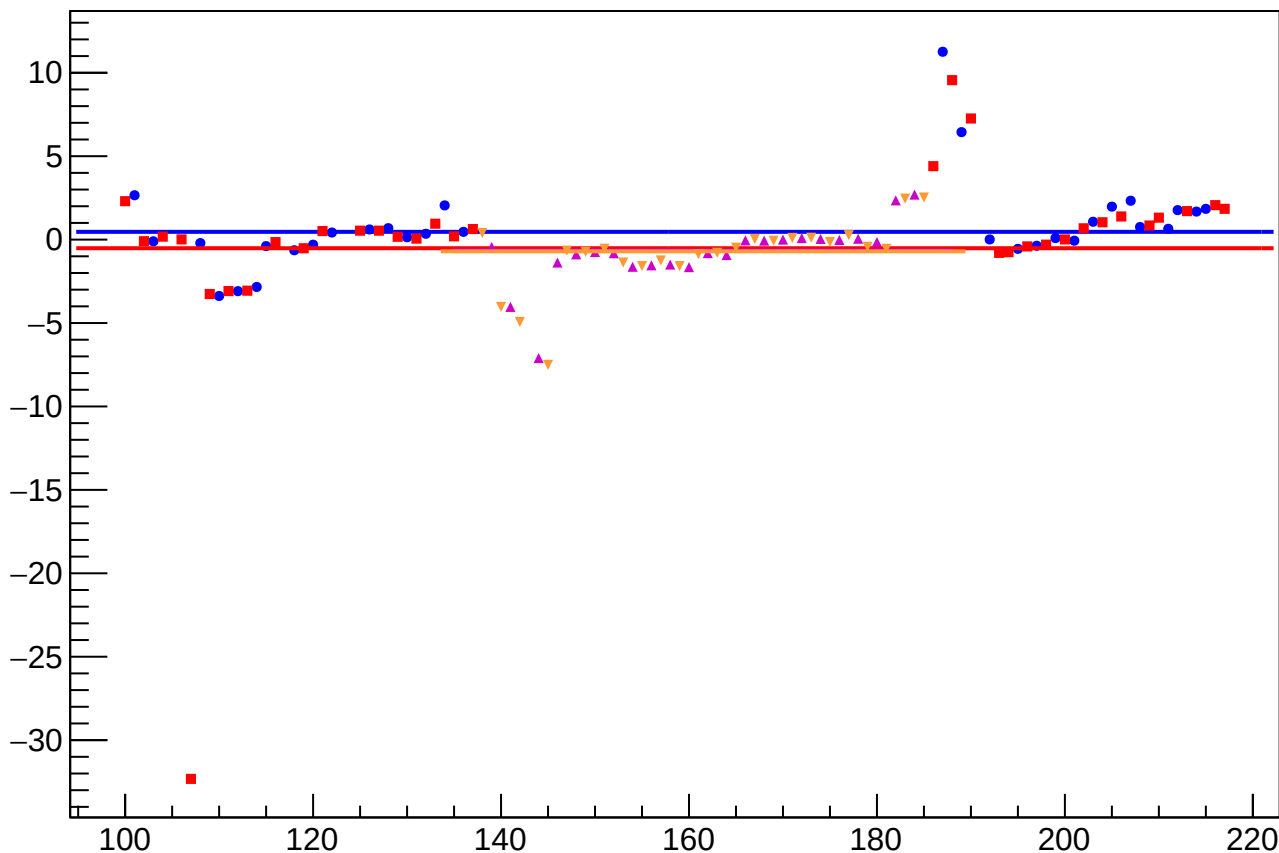
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.978 ± 0.343 $\chi^2/\text{NDF}: 304.6/30$
 Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$
 Right Out: 2.465 ± 0.347 $\chi^2/\text{NDF}: 262.1/33$
 Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$
 Right: 2.219 ± 0.244 $\chi^2/\text{NDF}: 567.7/64$
 In: -1.041 ± 0.152 $\chi^2/\text{NDF}: 1651.8/53$
 Out: -0.898 ± 0.151 $\chi^2/\text{NDF}: 1861.3/57$
 All: -0.969 ± 0.107 $\chi^2/\text{NDF}: 3513.5/111$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.466+/-0.017 χ^2/NDF : 10227.4/30

Left Out: -0.702+/-0.008 χ^2/NDF : 53834.9/23

Right Out: -0.516+/-0.017 χ^2/NDF : 94500.2/33

Left In: -0.644+/-0.008 χ^2/NDF : 44169.2/22

Left: -0.673+/-0.005 χ^2/NDF : 98032.6/46

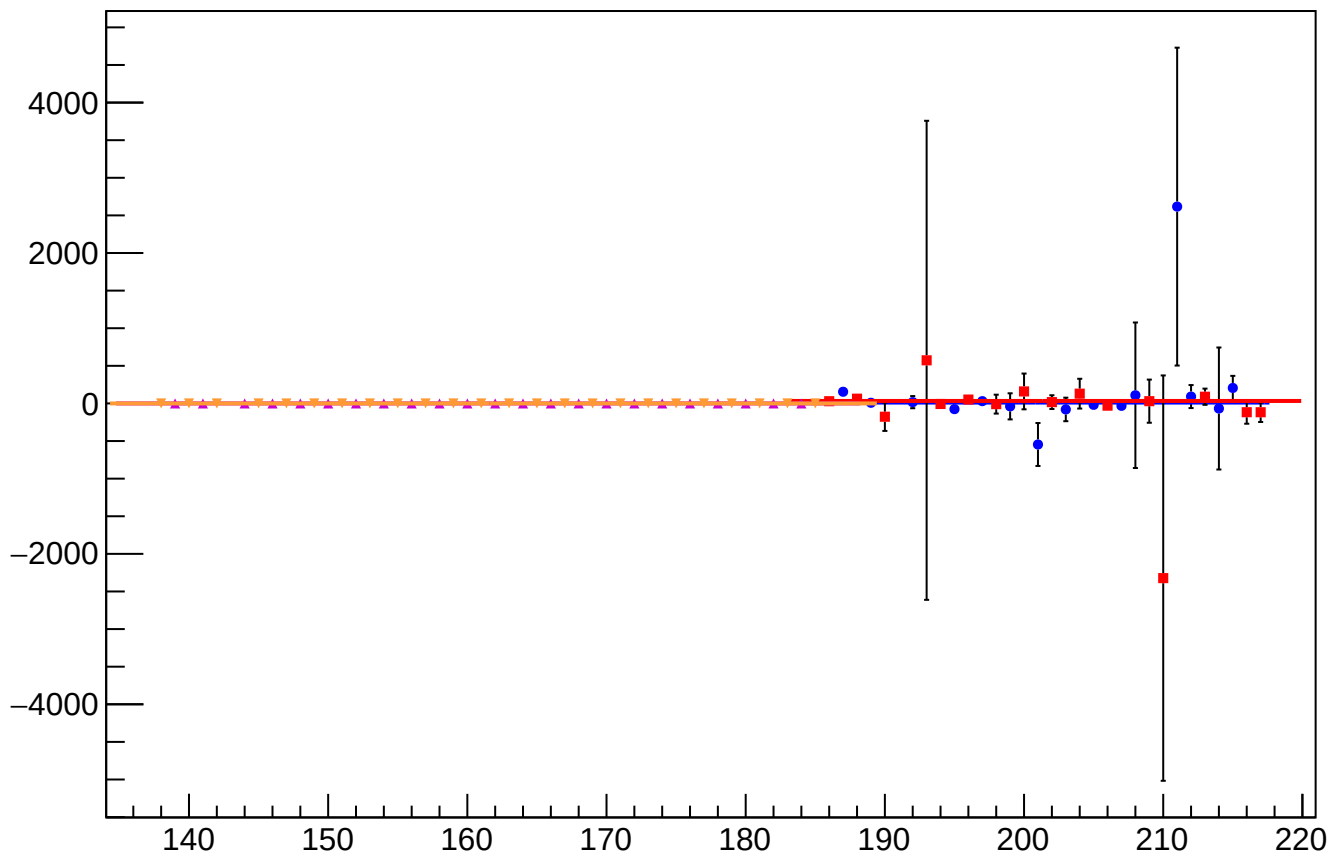
Right: -0.024+/-0.012 χ^2/NDF : 106346.6/64

In: -0.460+/-0.007 χ^2/NDF : 57857.8/53

Out: -0.671+/-0.007 χ^2/NDF : 148431.3/57

All: -0.566+/-0.005 χ^2/NDF : 206743.4/111

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.660 $\pm$ 15.071 χ^2 /NDF: 22.7/14

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 32.972 $\pm$ 9.587 χ^2 /NDF: 9.9/15

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF:35.1/22

Left: -0.024 $\pm$ 0.013 χ^2 /NDF: 71.7/46

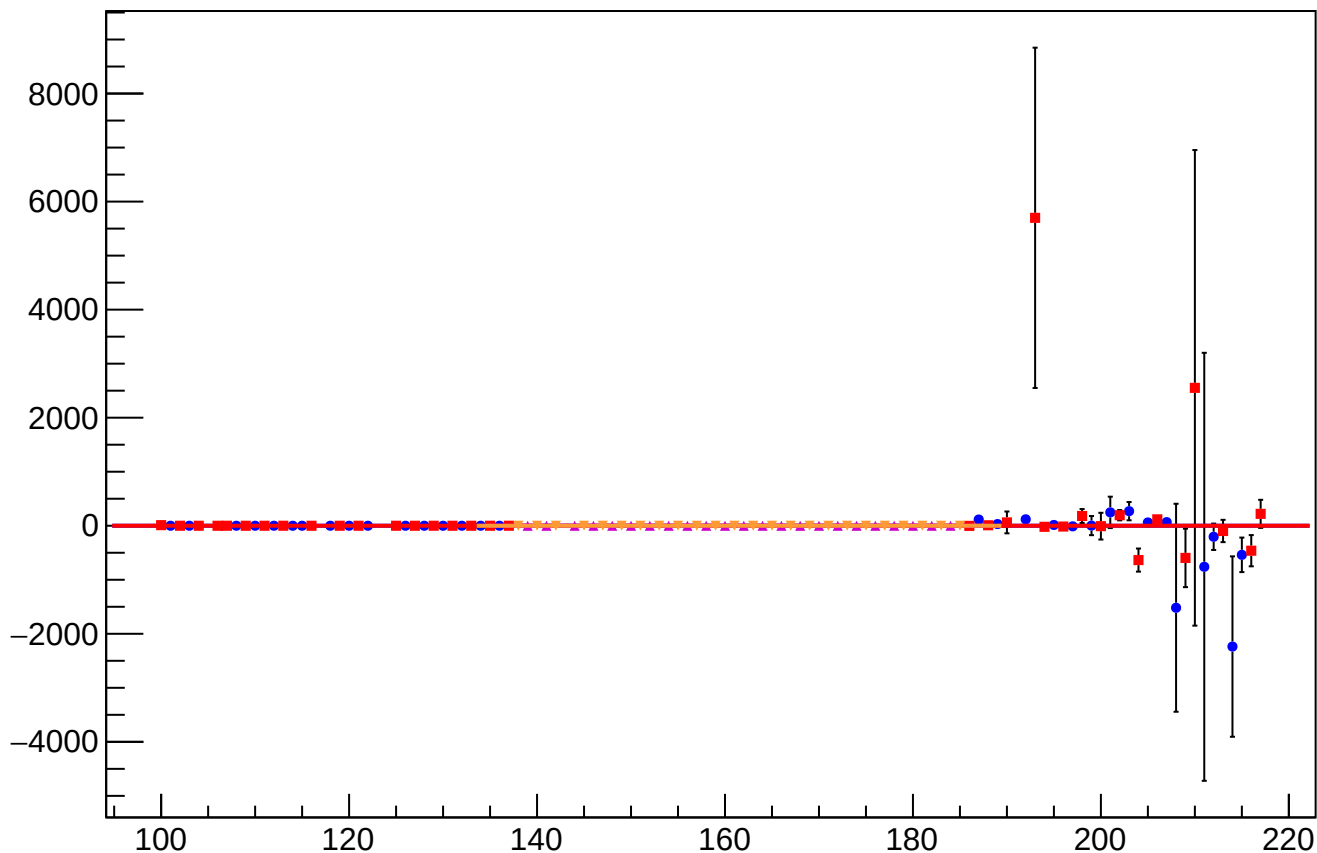
Right: 26.832 $\pm$ 8.089 χ^2 /NDF: 34.0/30

In: -0.010 $\pm$ 0.018 χ^2 /NDF:58.4/37

Out: -0.037 $\pm$ 0.018 χ^2 /NDF:57.2/39

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 116.7/77

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 29.5/30$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 39.8/33$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

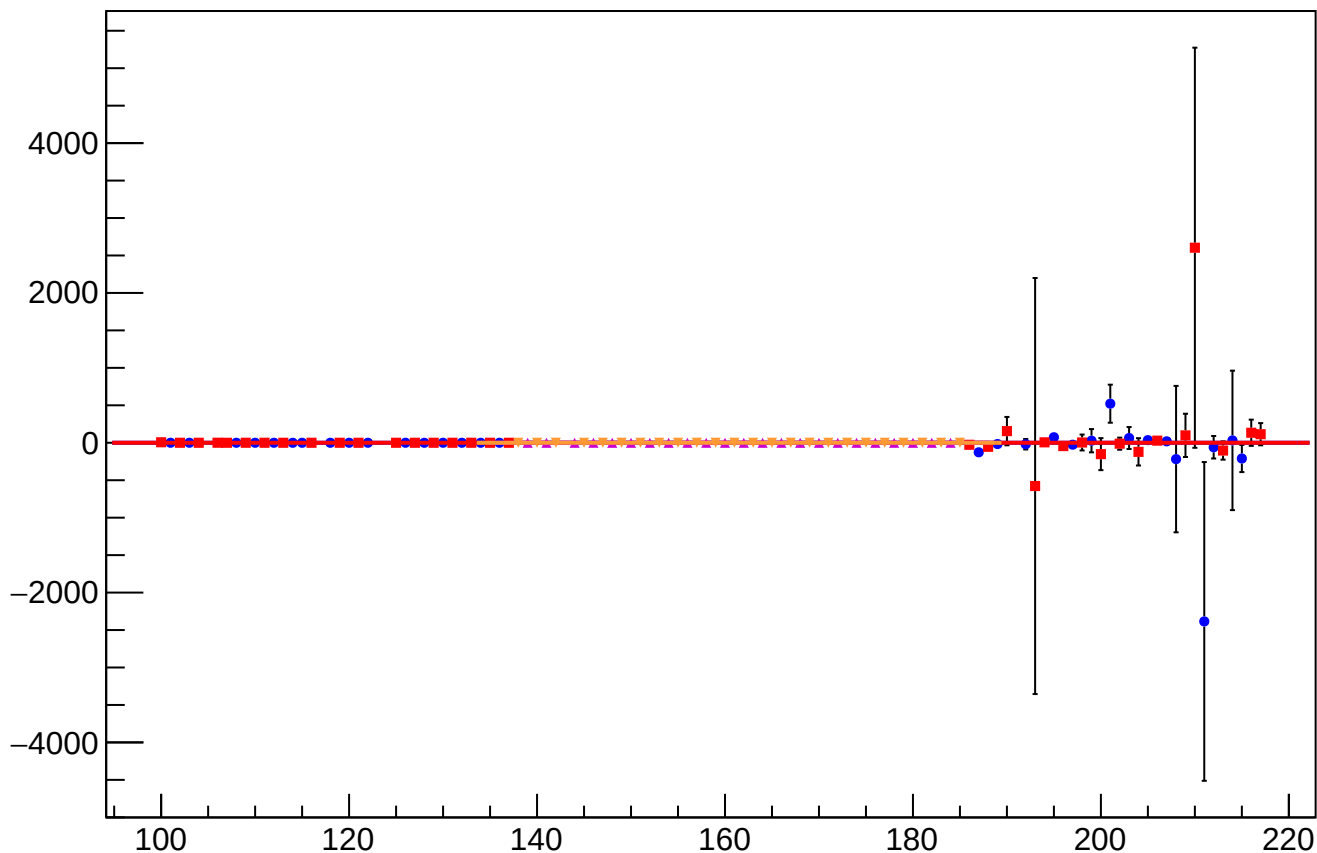
Right: -0.048 ± 0.017 $\chi^2/\text{NDF}: 74.1/64$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 73.9/53$

Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 67.9/57$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 144.2/111$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 32.9/30

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 33.6/33

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

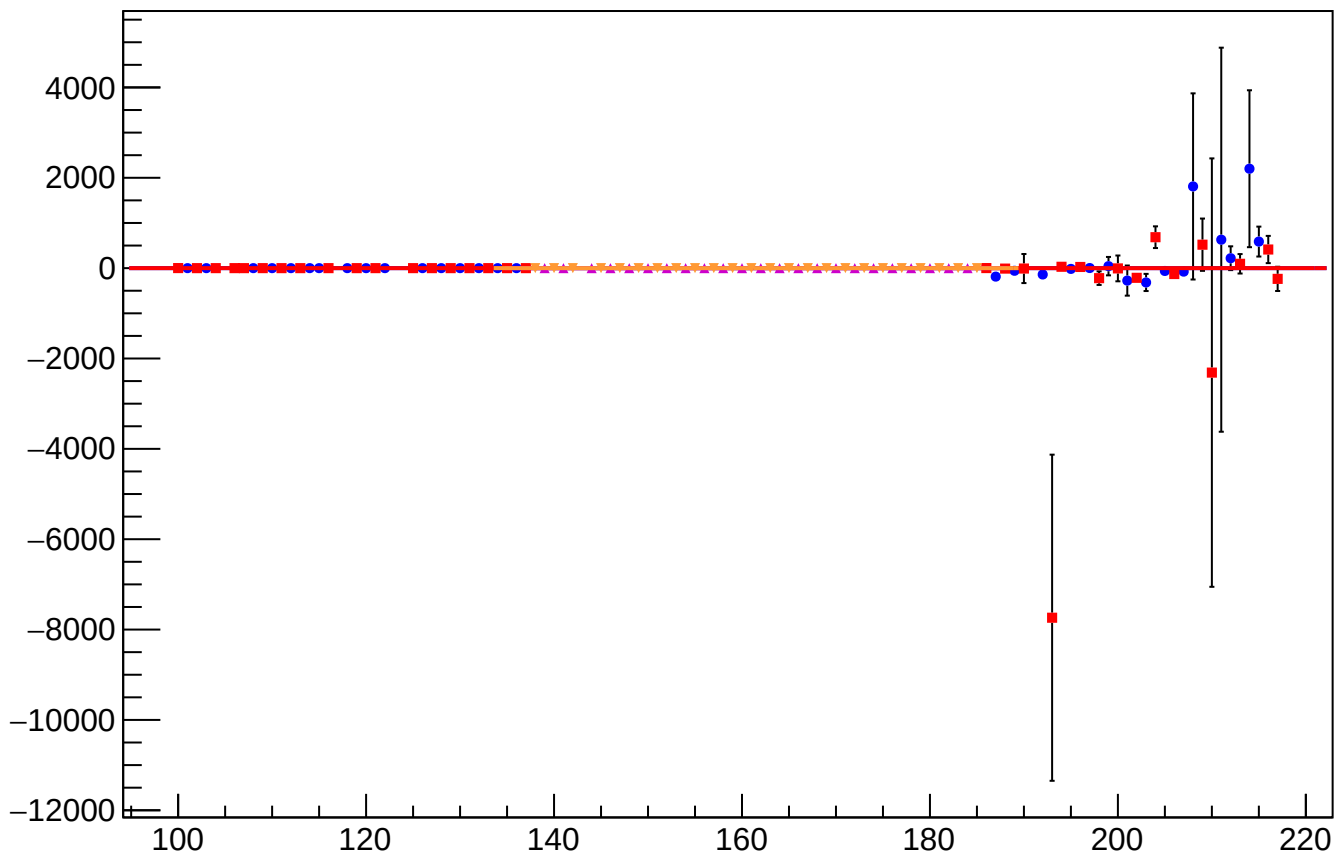
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 66.6/64

In: -0.005 $\pm$ 0.017 χ^2 /NDF:70.1/53

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:65.8/57

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 138.7/111

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 30.9/30

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 34.6/33

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

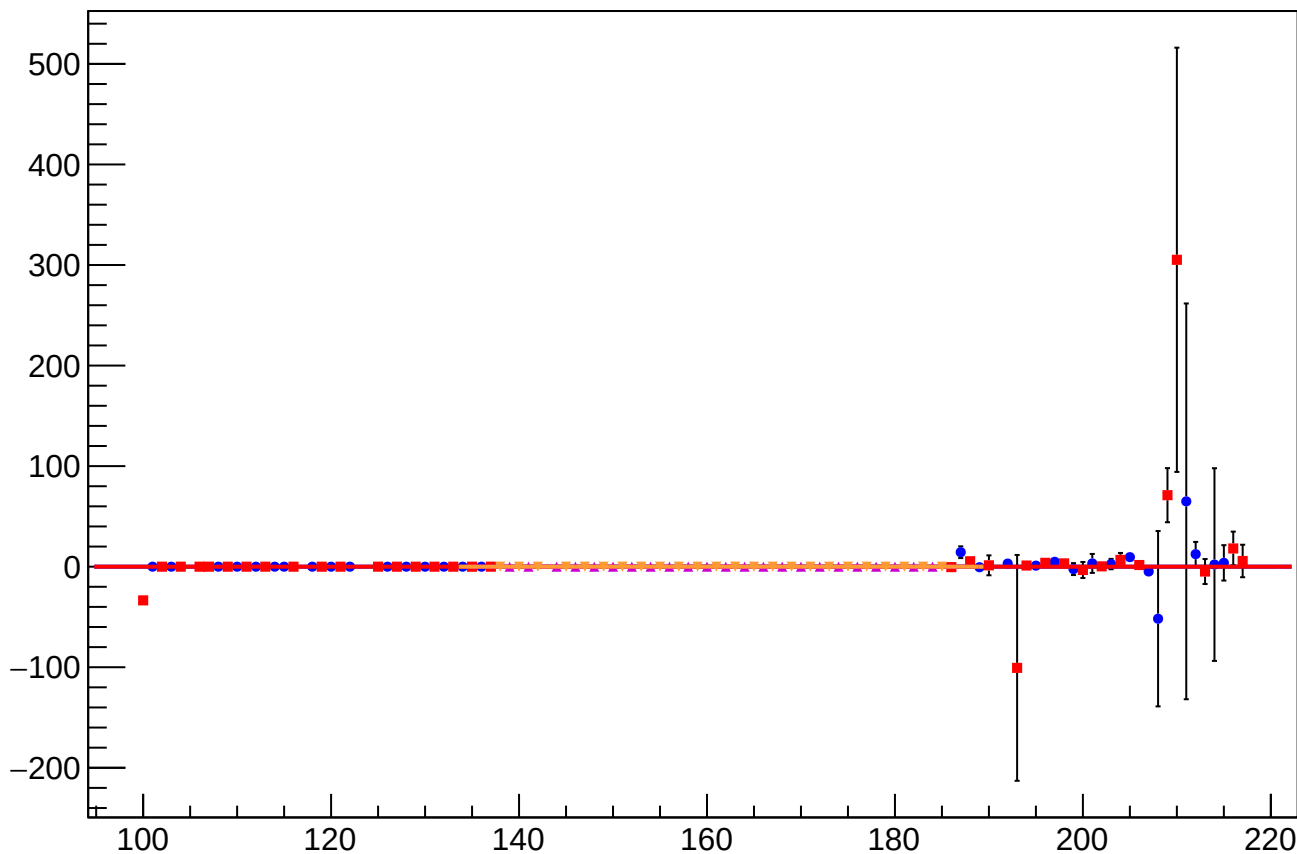
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 71.6/64

In: 0.053 $\pm$ 0.014 χ^2 /NDF:79.5/53

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:62.7/57

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 145.8/111

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/30

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26532.1/33

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

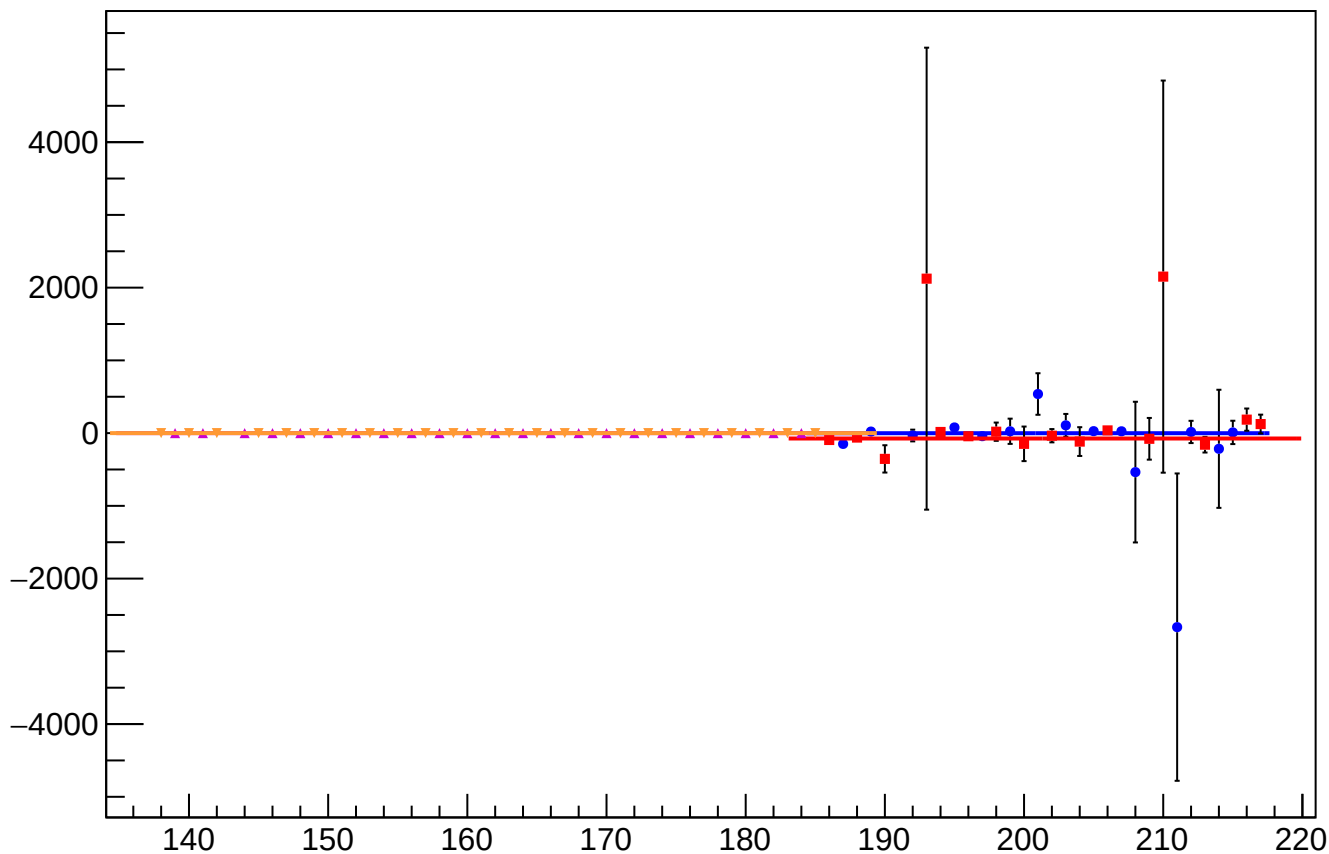
Right: -0.006 ± 0.001 χ^2/NDF : 26580.0/64

In: -0.001 ± 0.001 χ^2/NDF : 81.8/53

Out: -0.001 ± 0.001 χ^2/NDF : 26570.8/57

All: -0.001 ± 0.000 χ^2/NDF : 26652.6/111

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.167 ± 15.066 $\chi^2/\text{NDF}: 21.8/14$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.064 ± 9.589 $\chi^2/\text{NDF}: 21.9/15$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

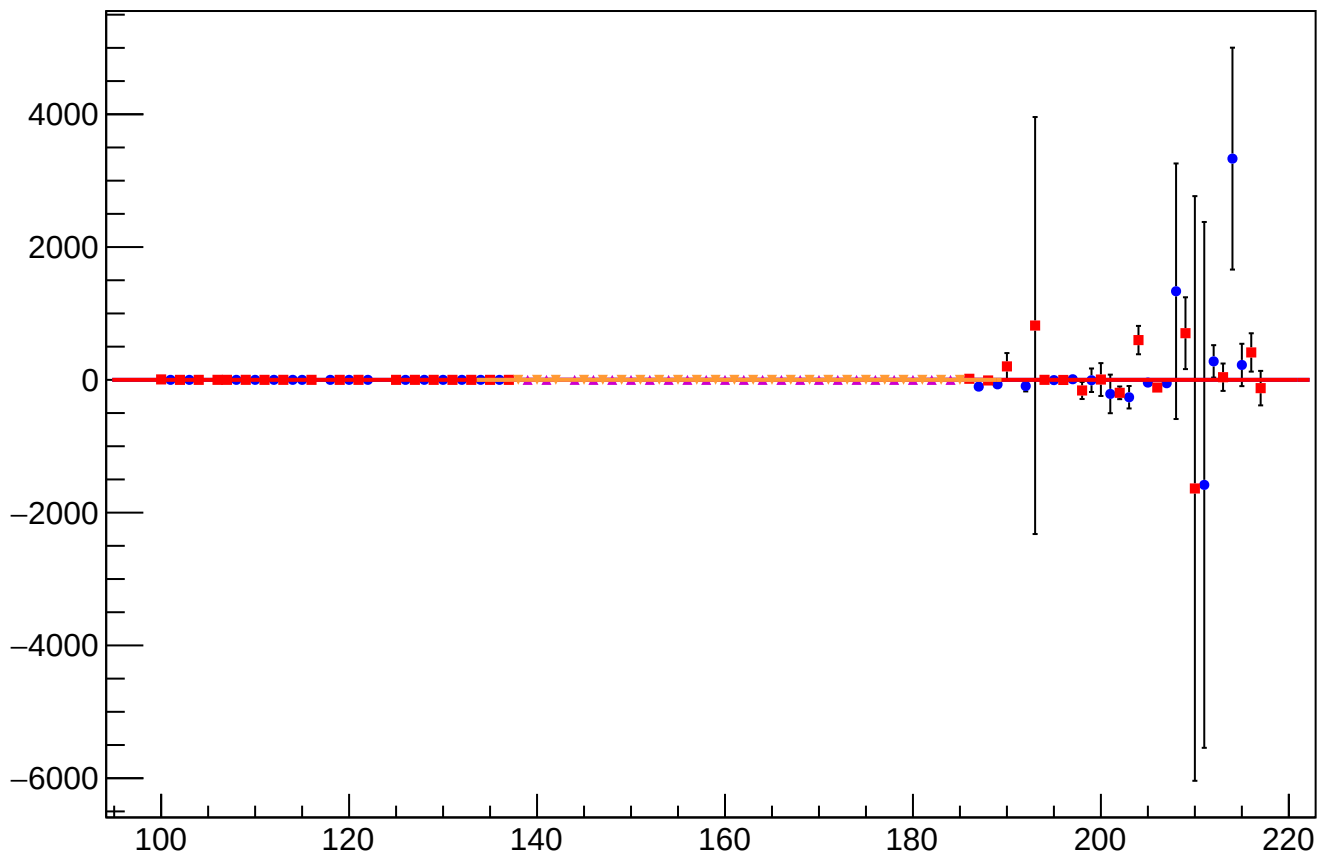
Right: -53.048 ± 8.089 $\chi^2/\text{NDF}: 60.4/30$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 56.9/37$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 118.8/39$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 178.7/77$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 43.7/30

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 51.9/33

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

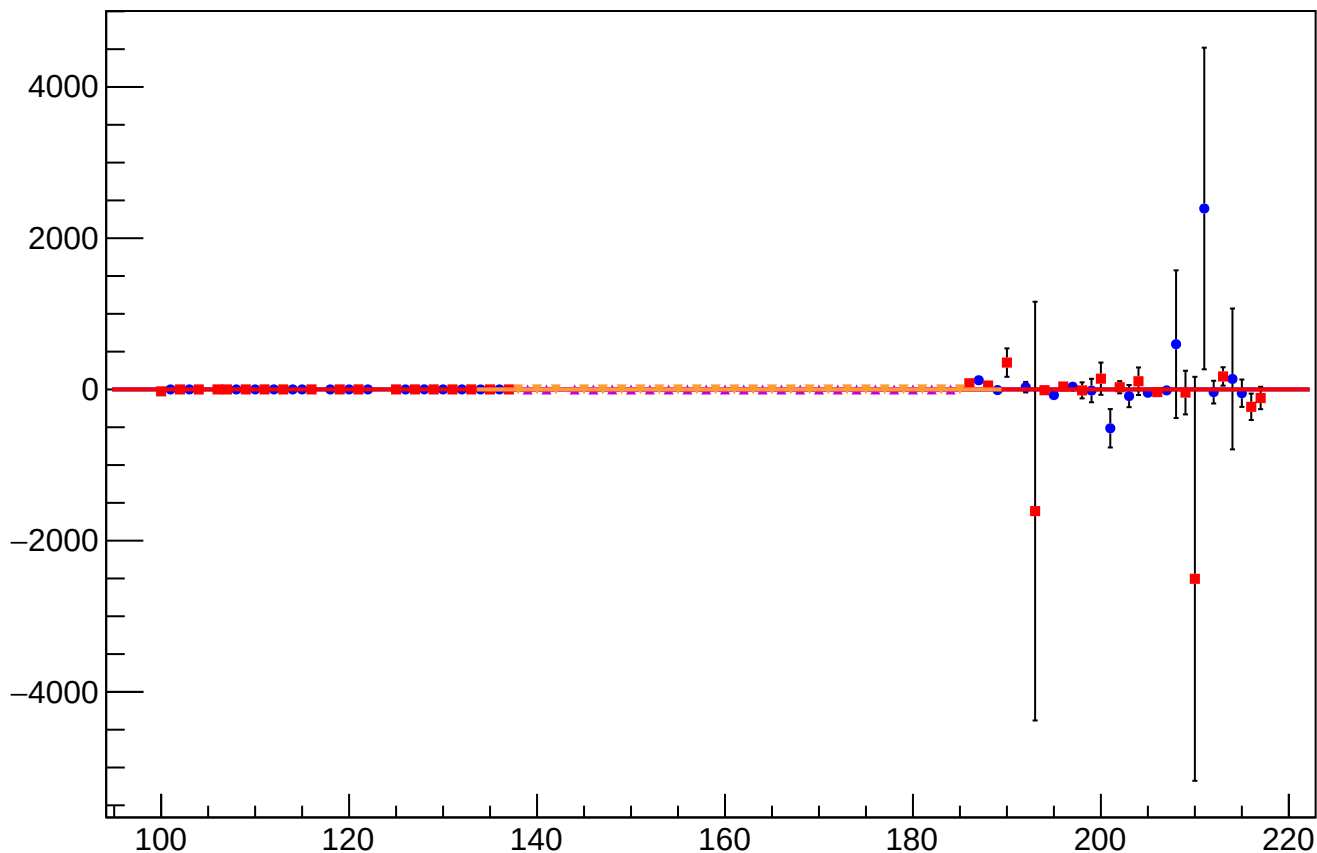
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 96.3/64

In: 0.006 $\pm$ 0.012 χ^2 /NDF:93.2/53

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:84.2/57

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 177.5/111

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 52.0/30

Left Out: 0.048+/-0.018 χ^2/NDF : 35.4/23

Right Out: 0.197+/-0.045 χ^2/NDF : 113.8/33

Left In: 0.020+/-0.018 χ^2/NDF : 35.8/22

Left: 0.034+/-0.013 χ^2/NDF : 72.4/46

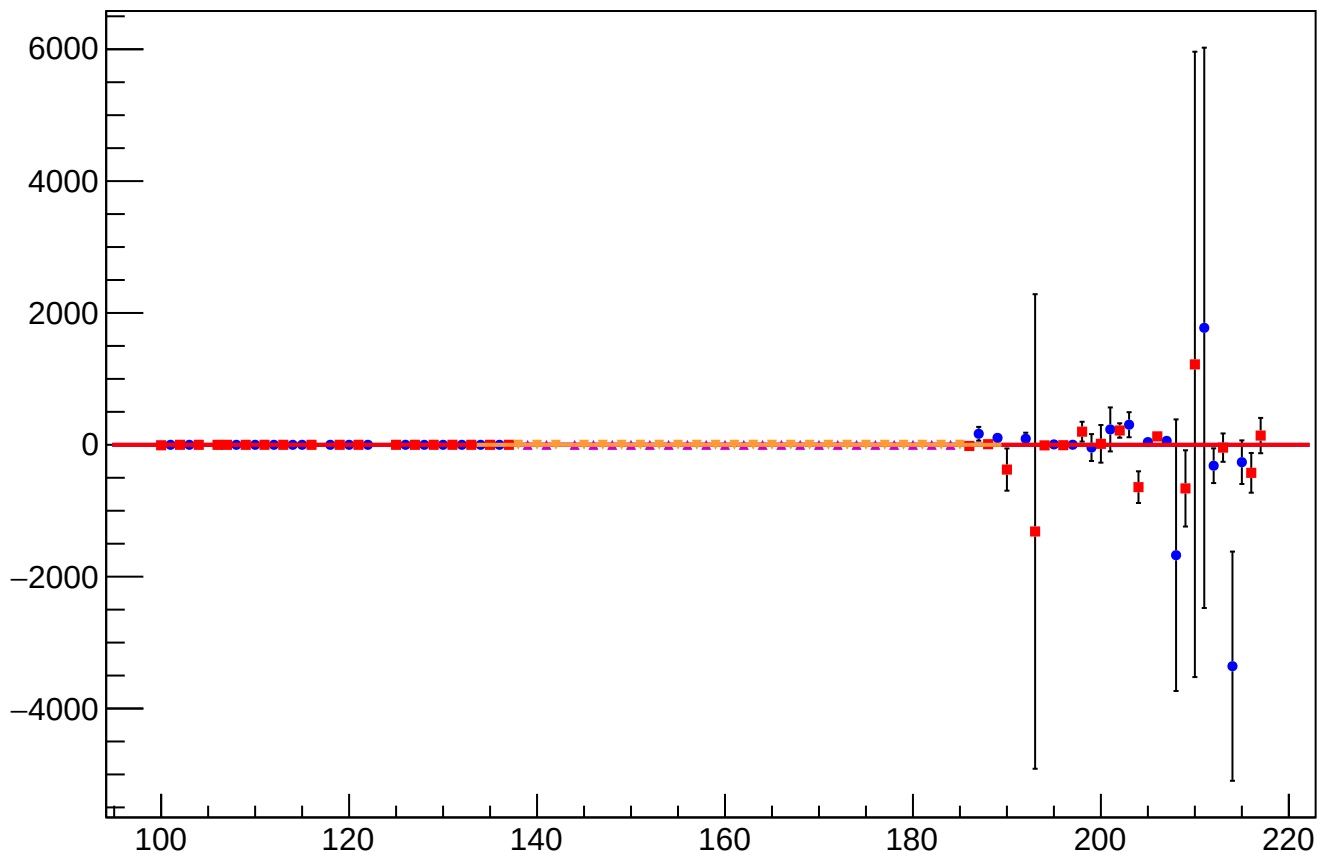
Right: 0.176+/-0.031 χ^2/NDF : 166.2/64

In: 0.040+/-0.017 χ^2/NDF : 96.4/53

Out: 0.068+/-0.017 χ^2/NDF : 158.7/57

All: 0.054+/-0.012 χ^2/NDF : 256.5/111

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 43.5/30$

Left Out: 0.022 ± 0.016 $\chi^2/\text{NDF}: 33.3/23$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 48.3/33$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 83.9/46$

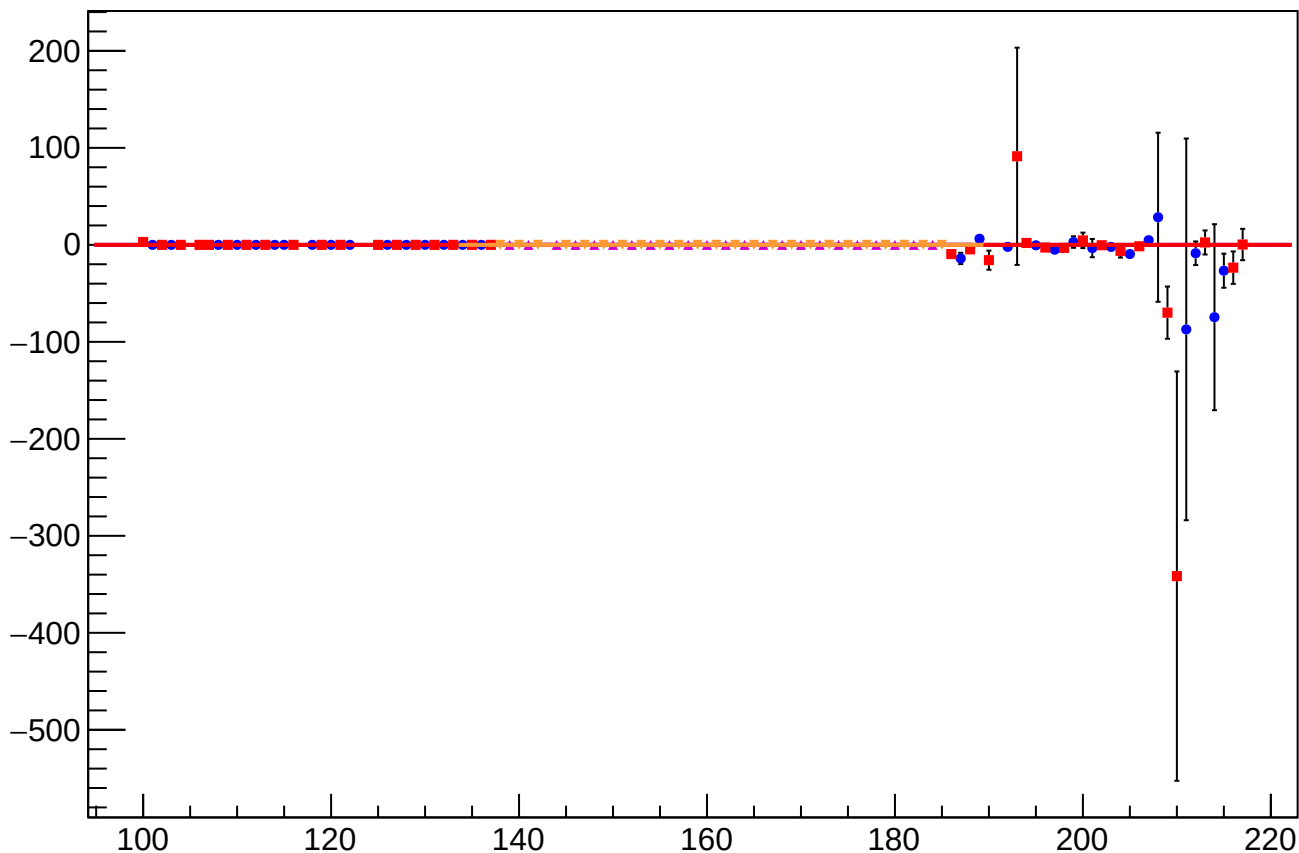
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 92.6/64$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 93.8/53$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 85.9/57$

All: 0.004 ± 0.010 $\chi^2/\text{NDF}: 179.8/111$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.001 χ^2 /NDF: 61.3/30

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:32.0/23

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 226.2/33

Left In: -0.009 $\pm$ 0.001 χ^2 /NDF:37.2/22

Left: -0.008 $\pm$ 0.001 χ^2 /NDF: 69.4/46

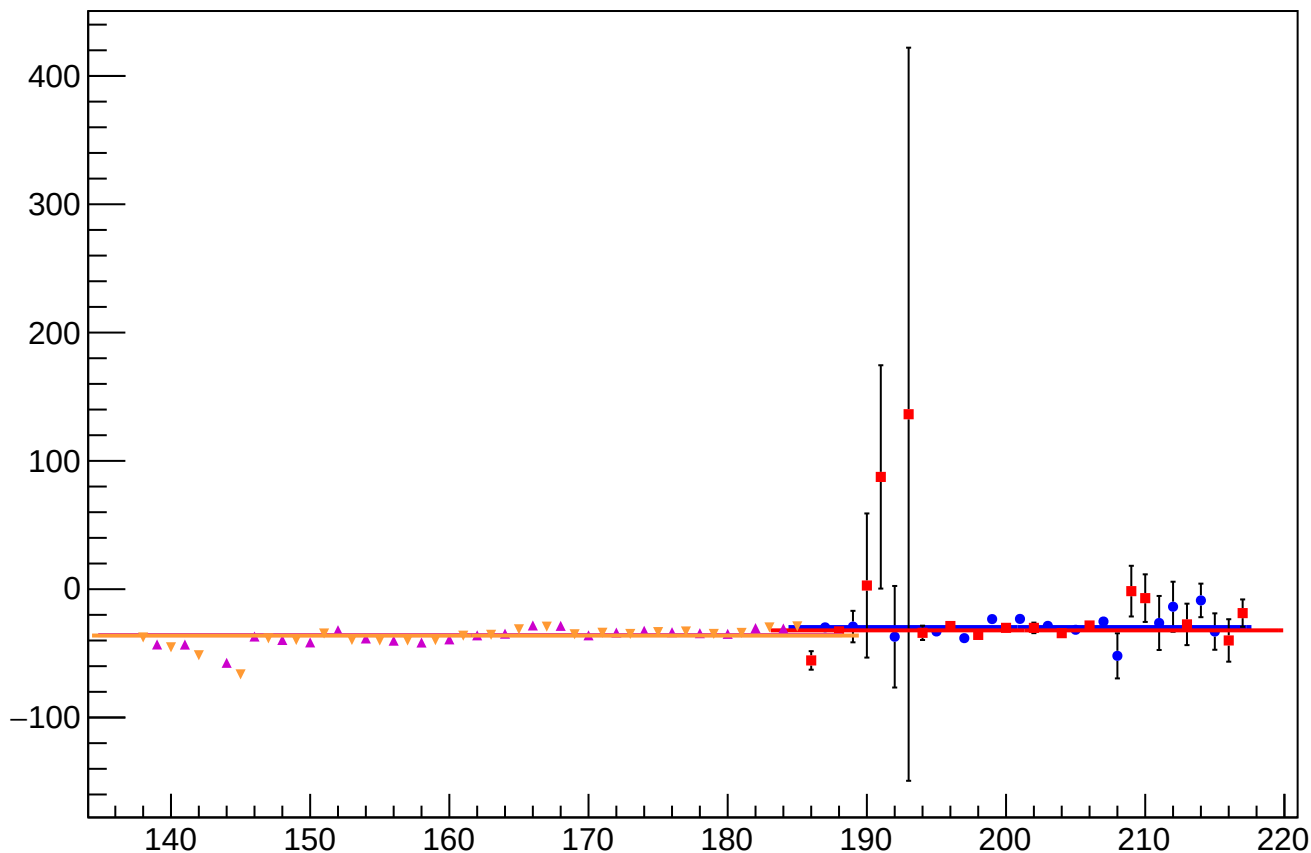
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 287.6/64

In: -0.008 $\pm$ 0.001 χ^2 /NDF:101.1/53

Out: -0.008 $\pm$ 0.001 χ^2 /NDF:260.3/57

All: -0.008 $\pm$ 0.000 χ^2 /NDF: 361.6/111

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.516 ± 0.853 χ^2/NDF : 29.0/14

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.085 ± 0.803 χ^2/NDF : 26.9/16

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

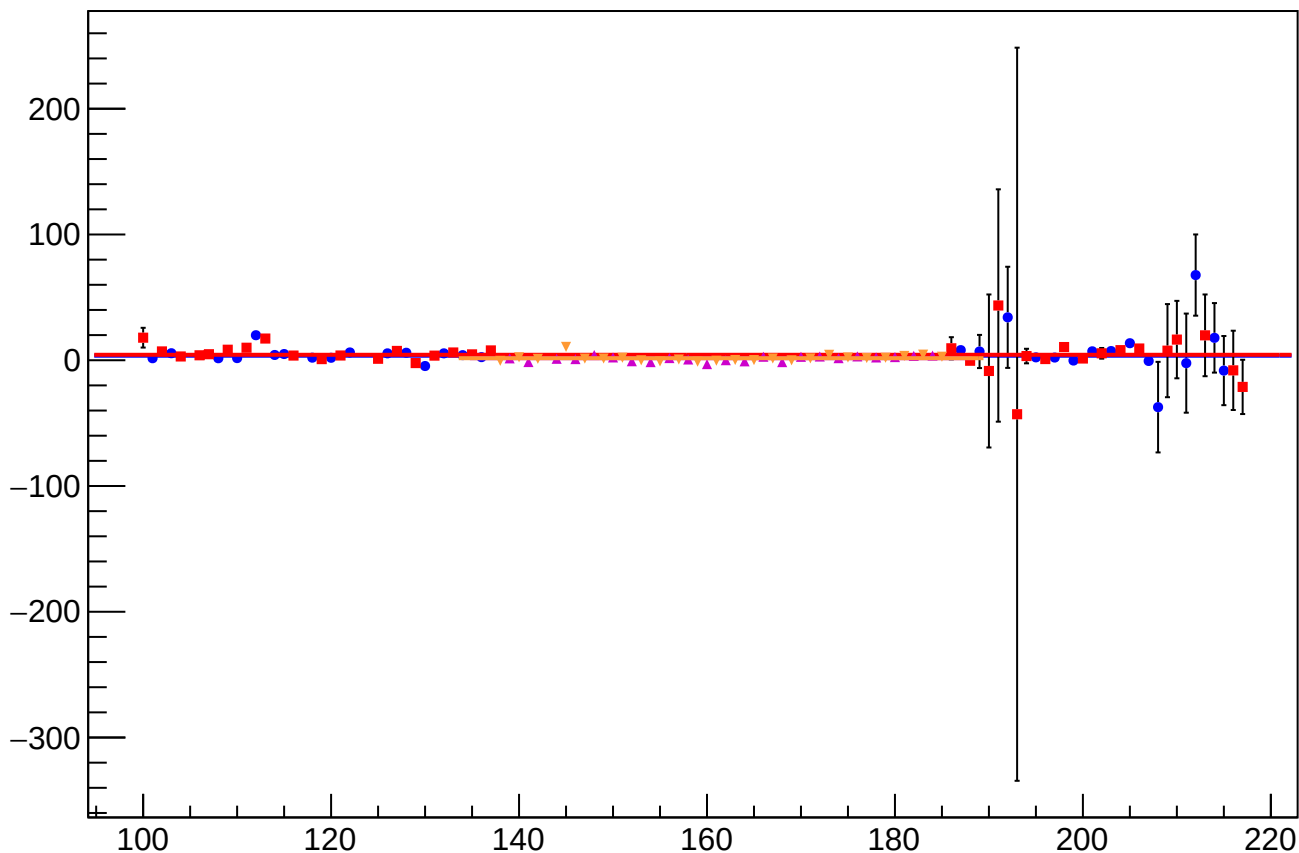
Right: -30.879 ± 0.585 χ^2/NDF : 60.7/31

In: -35.479 ± 0.187 χ^2/NDF : 934.4/37

Out: -35.902 ± 0.187 χ^2/NDF : 1165.7/40

All: -35.691 ± 0.132 χ^2/NDF : 2102.7/78

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 $\pm$ 0.217 χ^2 /NDF: 462.6/30

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.347 $\pm$ 0.221 χ^2 /NDF: 370.9/34

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

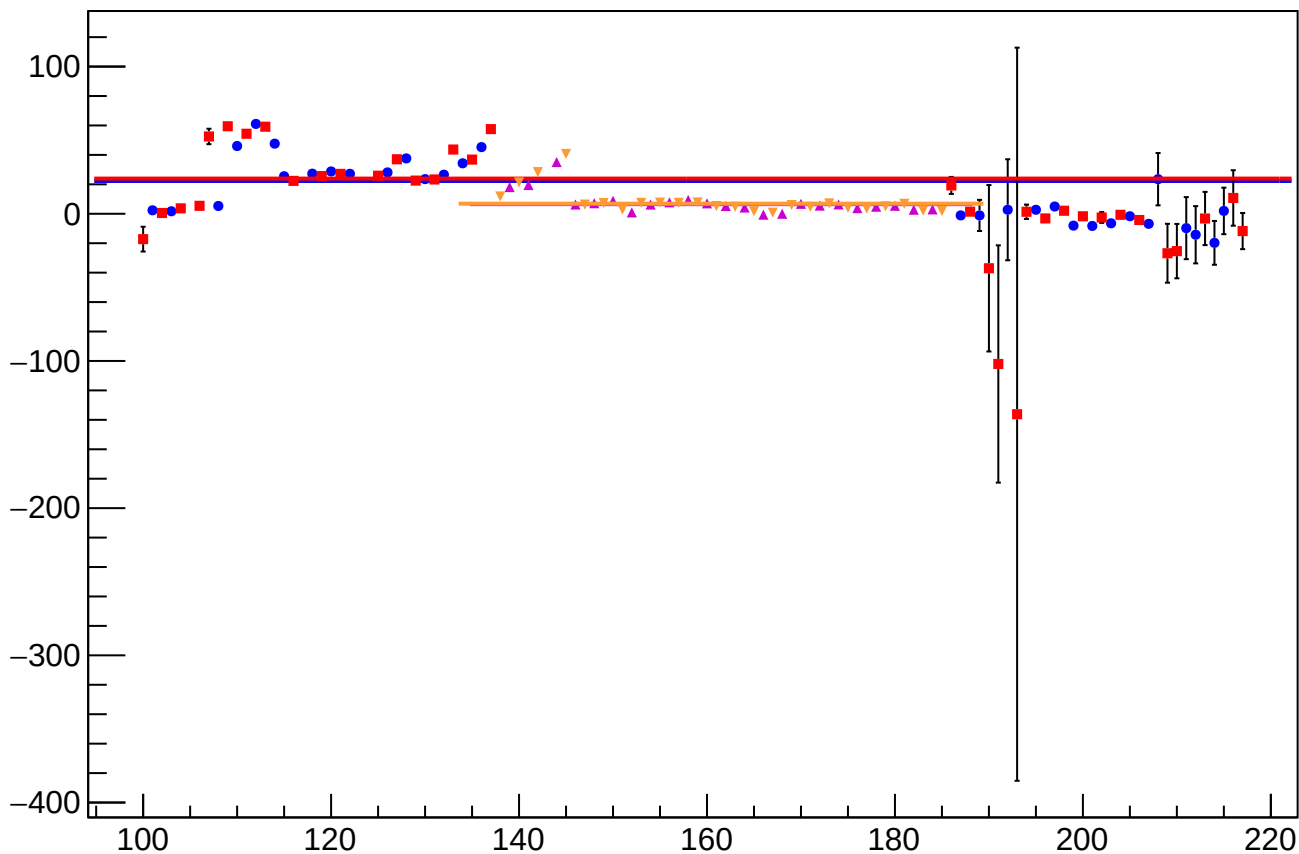
Right: 3.968 $\pm$ 0.155 χ^2 /NDF: 839.3/65

In: 2.274 $\pm$ 0.123 χ^2 /NDF:681.3/53

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:641.8/58

All: 2.374 $\pm$ 0.087 χ^2 /NDF: 1324.5/112

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.288 $\pm$ 0.370 χ^2 /NDF: 2821.6/30

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.899 $\pm$ 0.361 χ^2 /NDF: 3308.4/34

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

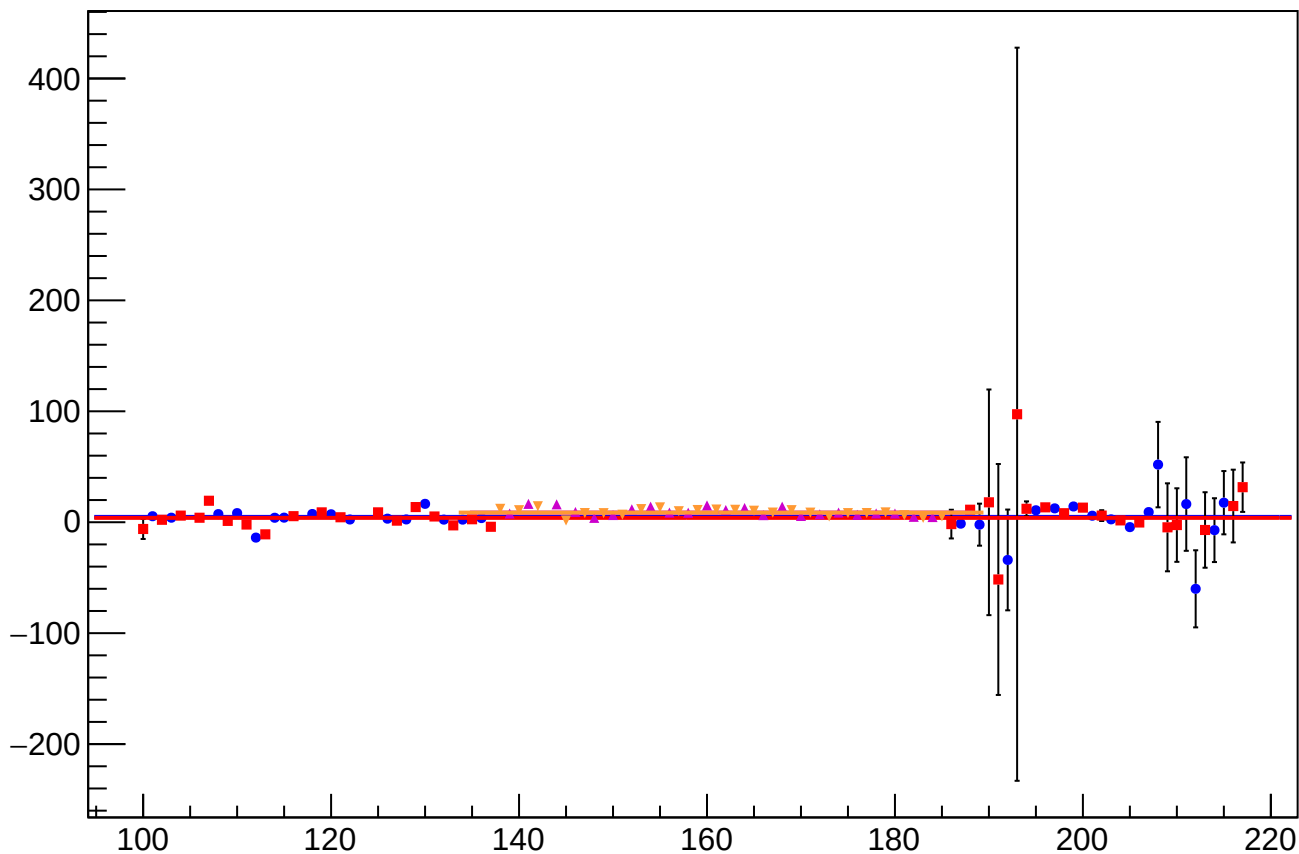
Right: 23.112 $\pm$ 0.258 χ^2 /NDF: 6139.7/65

In: 9.839 $\pm$ 0.169 χ^2 /NDF:5281.8/53

Out: 10.596 $\pm$ 0.169 χ^2 /NDF:6338.7/58

All: 10.218 $\pm$ 0.120 χ^2 /NDF: 11630.6/112

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.804 $\pm$ 0.250 χ^2 /NDF: 576.6/30

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.940 $\pm$ 0.254 χ^2 /NDF: 590.9/34

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

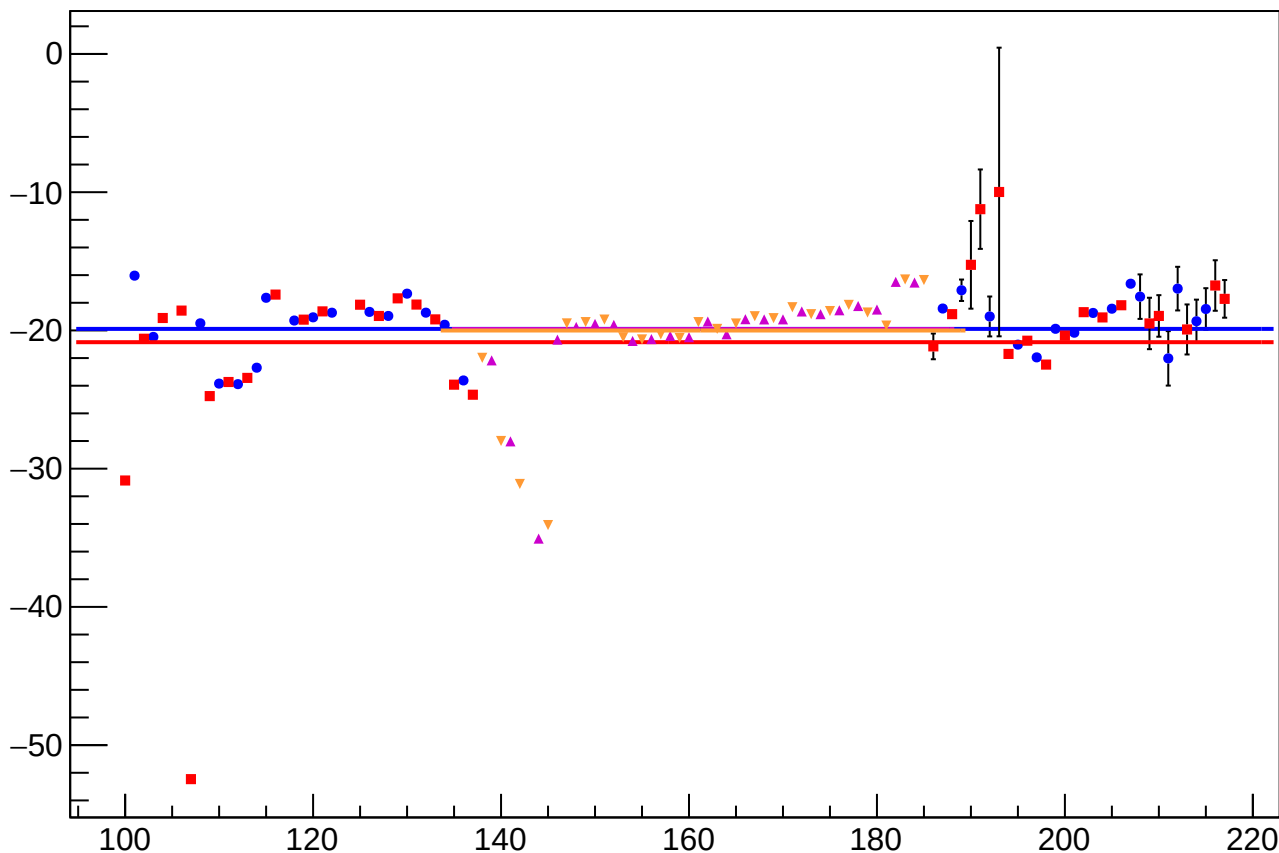
Right: 4.380 $\pm$ 0.178 χ^2 /NDF: 1173.4/65

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1176.6/53

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1074.4/58

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2252.1/112

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889+/-0.015 χ^2/NDF : 27148.7/30

Left Out: -20.006+/-0.008 χ^2/NDF :171763.9/23

Right Out: -20.851+/-0.015 χ^2/NDF : 95250.9/34

Left In: -19.898+/-0.008 χ^2/NDF :144191.9/22

Left: -19.951+/-0.006 χ^2/NDF : 316049.4/46

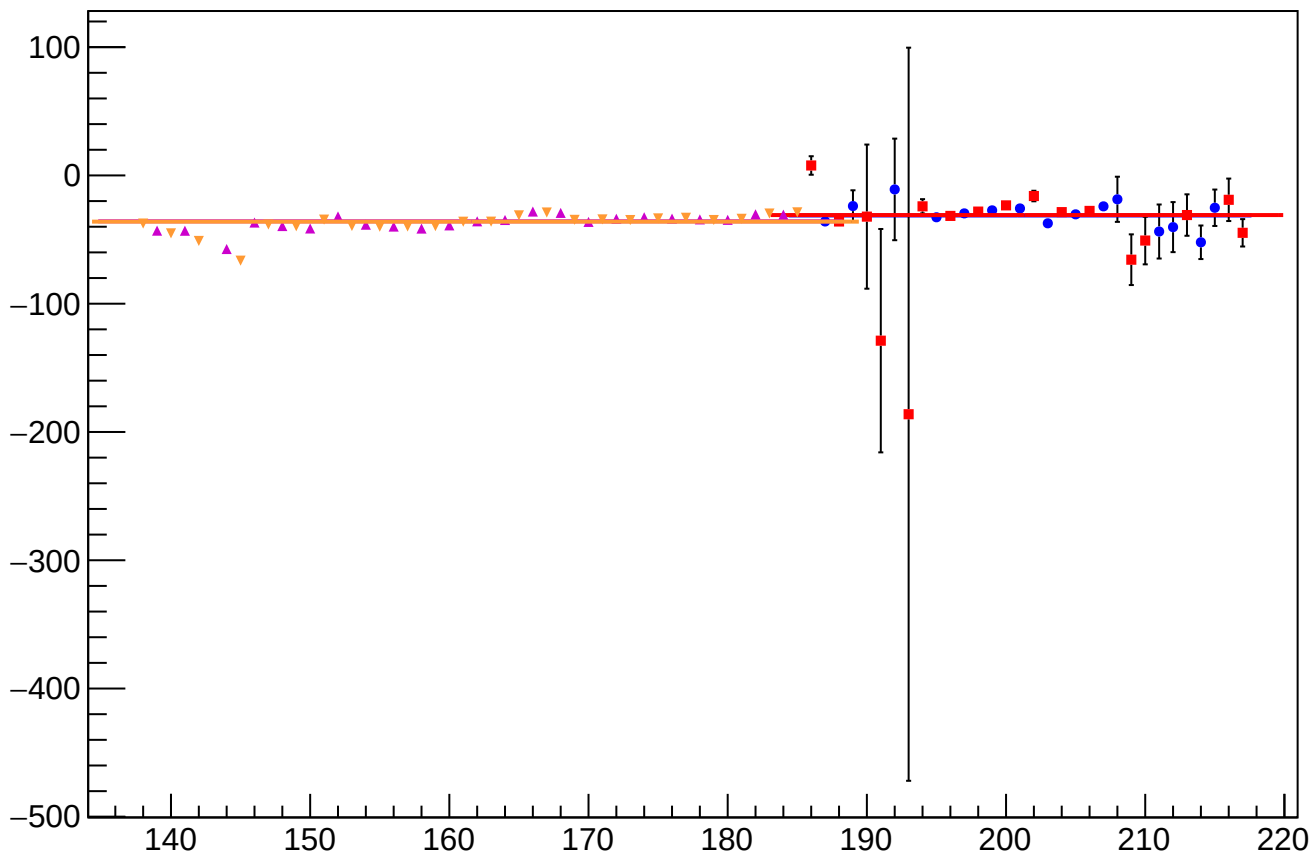
Right: -20.367+/-0.011 χ^2/NDF : 124487.0/65

In: -19.896+/-0.007 χ^2/NDF :171340.9/53

Out: -20.190+/-0.007 χ^2/NDF :269519.2/58

All: -20.042+/-0.005 χ^2/NDF : 441754.4/112

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.198 ± 0.856 χ^2/NDF : 31.3/14

Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23

Right Out: -30.903 ± 0.805 χ^2/NDF : 78.4/16

Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46

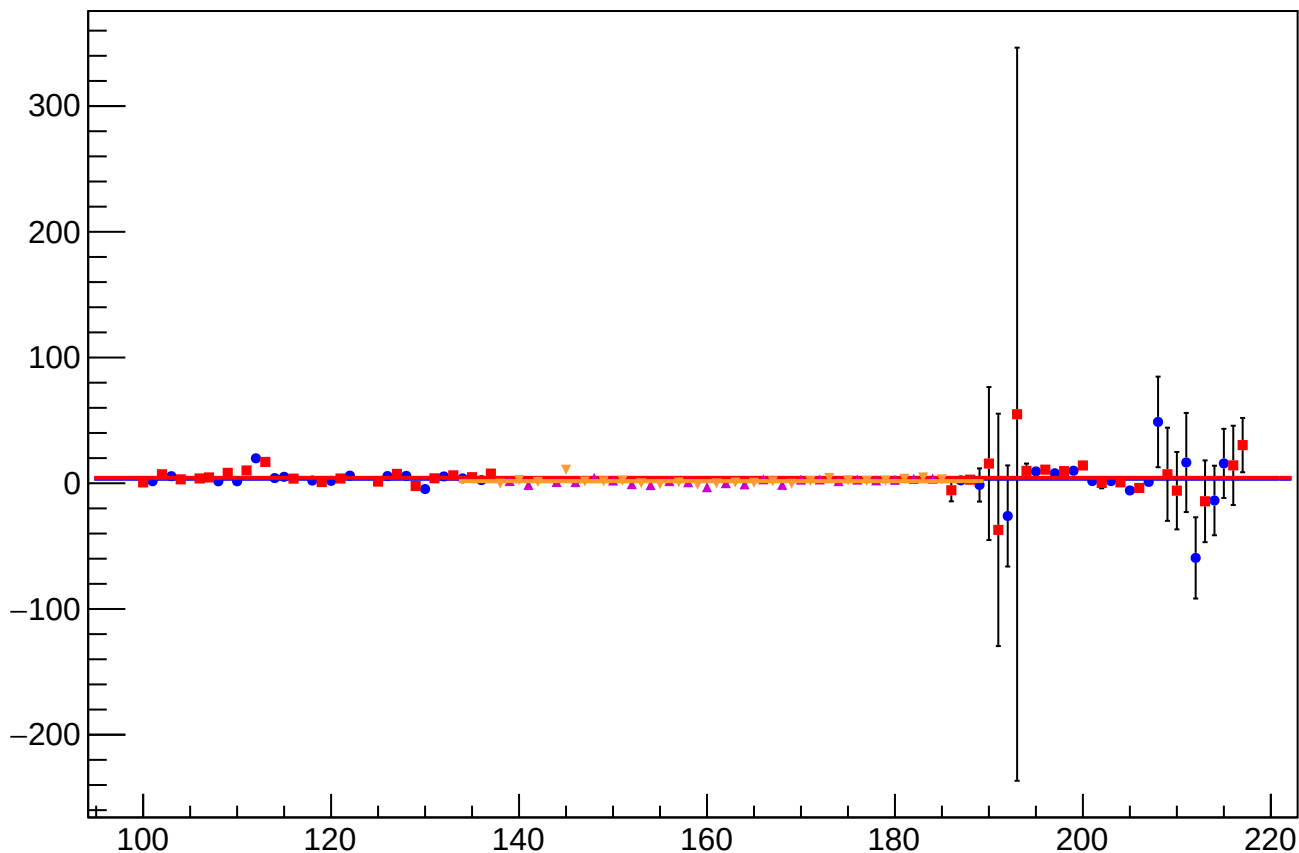
Right: -31.041 ± 0.586 χ^2/NDF : 109.8/31

In: -35.549 ± 0.187 χ^2/NDF : 901.1/37

Out: -35.755 ± 0.187 χ^2/NDF : 1238.1/40

All: -35.652 ± 0.132 χ^2/NDF : 2139.8/78

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 $\pm$ 0.217 χ^2 /NDF: 462.1/30

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.323 $\pm$ 0.217 χ^2 /NDF: 380.2/34

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

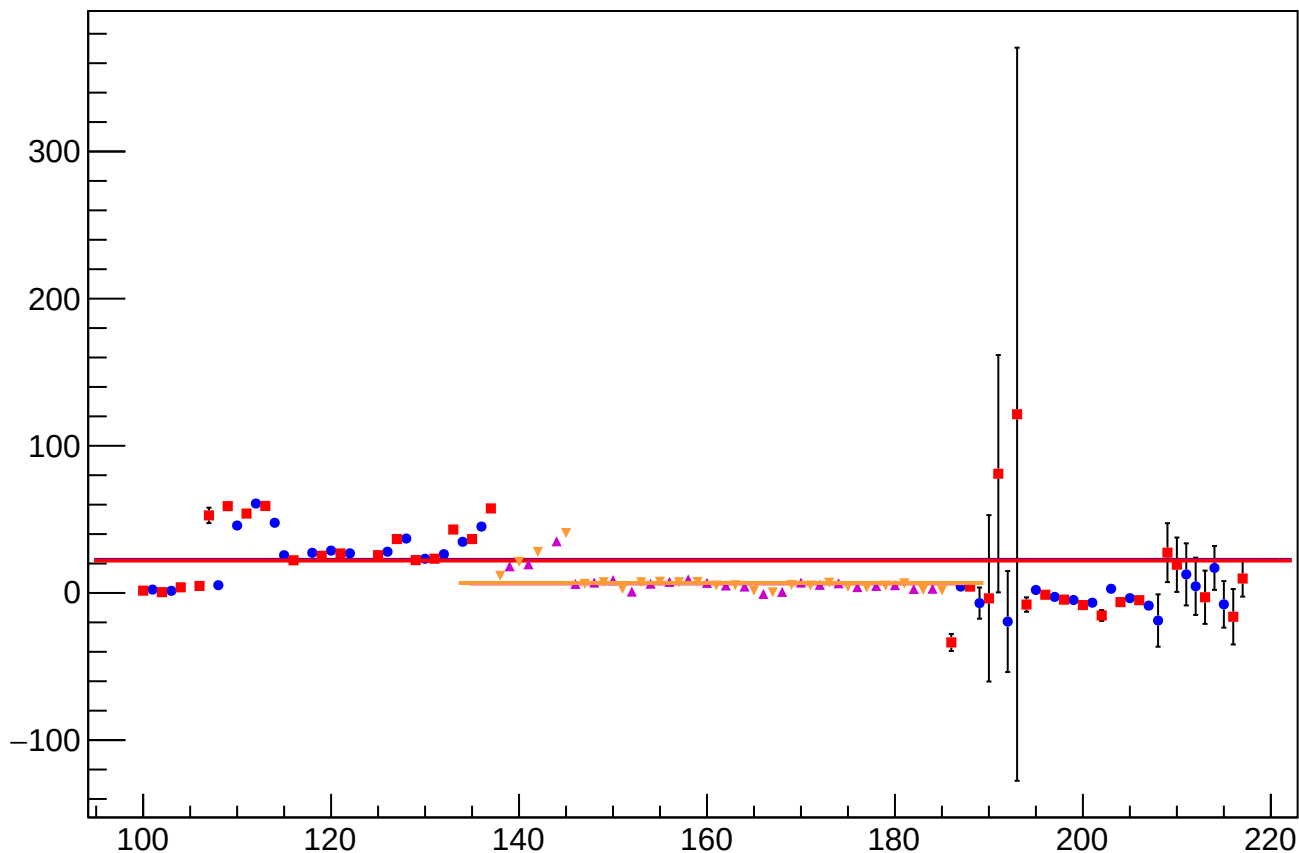
Right: 3.944 $\pm$ 0.153 χ^2 /NDF: 848.4/65

In: 2.305 $\pm$ 0.123 χ^2 /NDF:675.1/53

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:646.5/58

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1323.5/112

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.464 $\pm$ 0.370 χ^2 /NDF: 2704.5/30

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.031 $\pm$ 0.349 χ^2 /NDF: 3666.3/34

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

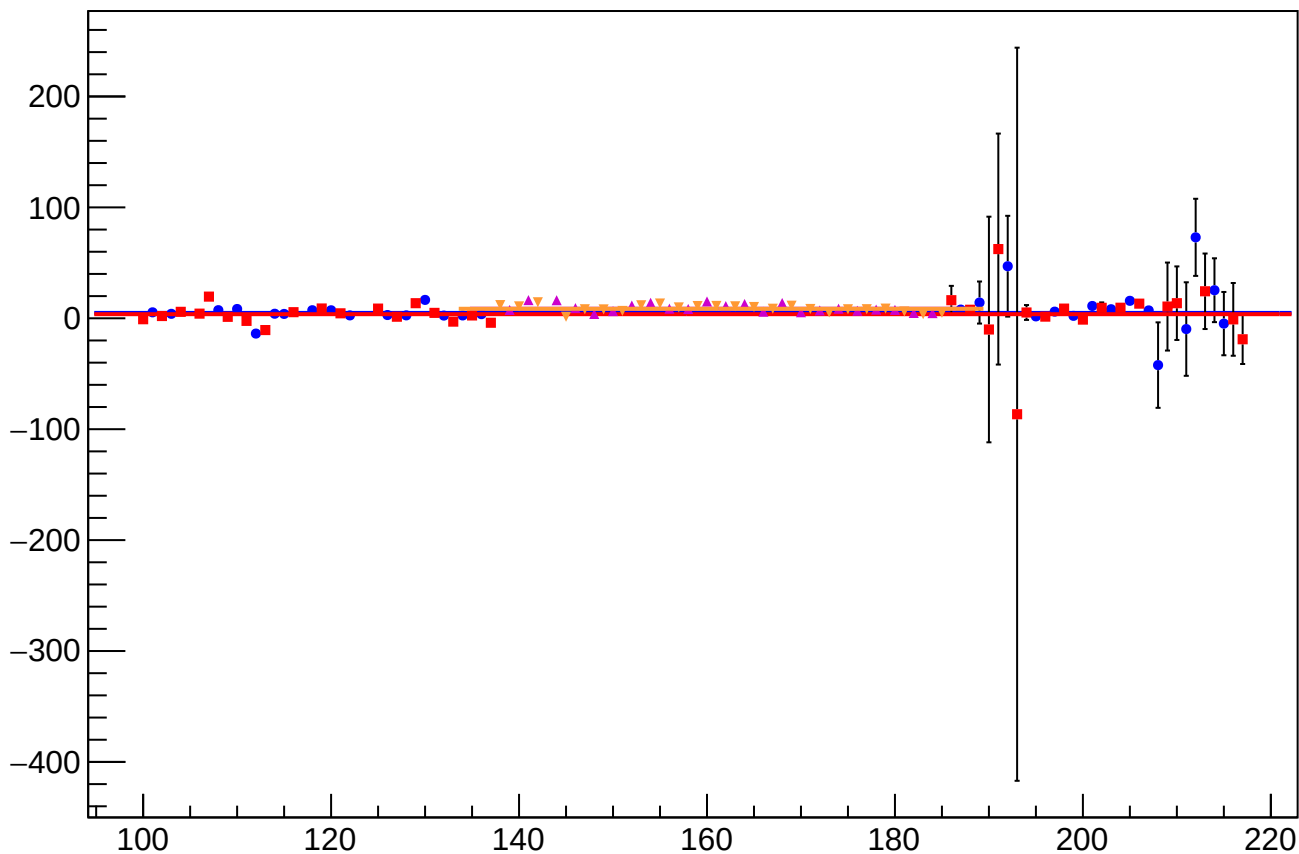
Right: 22.235 $\pm$ 0.254 χ^2 /NDF: 6371.5/65

In: 9.868 $\pm$ 0.169 χ^2 /NDF:5190.8/53

Out: 10.307 $\pm$ 0.168 χ^2 /NDF:6434.6/58

All: 10.090 $\pm$ 0.119 χ^2 /NDF: 11628.8/112

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.849 ± 0.250 χ^2/NDF : 565.0/30

Left Out: 8.585 ± 0.169 χ^2/NDF : 245.5/23

Right Out: 3.696 ± 0.250 χ^2/NDF : 590.5/34

Left In: 8.585 ± 0.170 χ^2/NDF : 441.8/22

Left: 8.585 ± 0.120 χ^2/NDF : 687.3/46

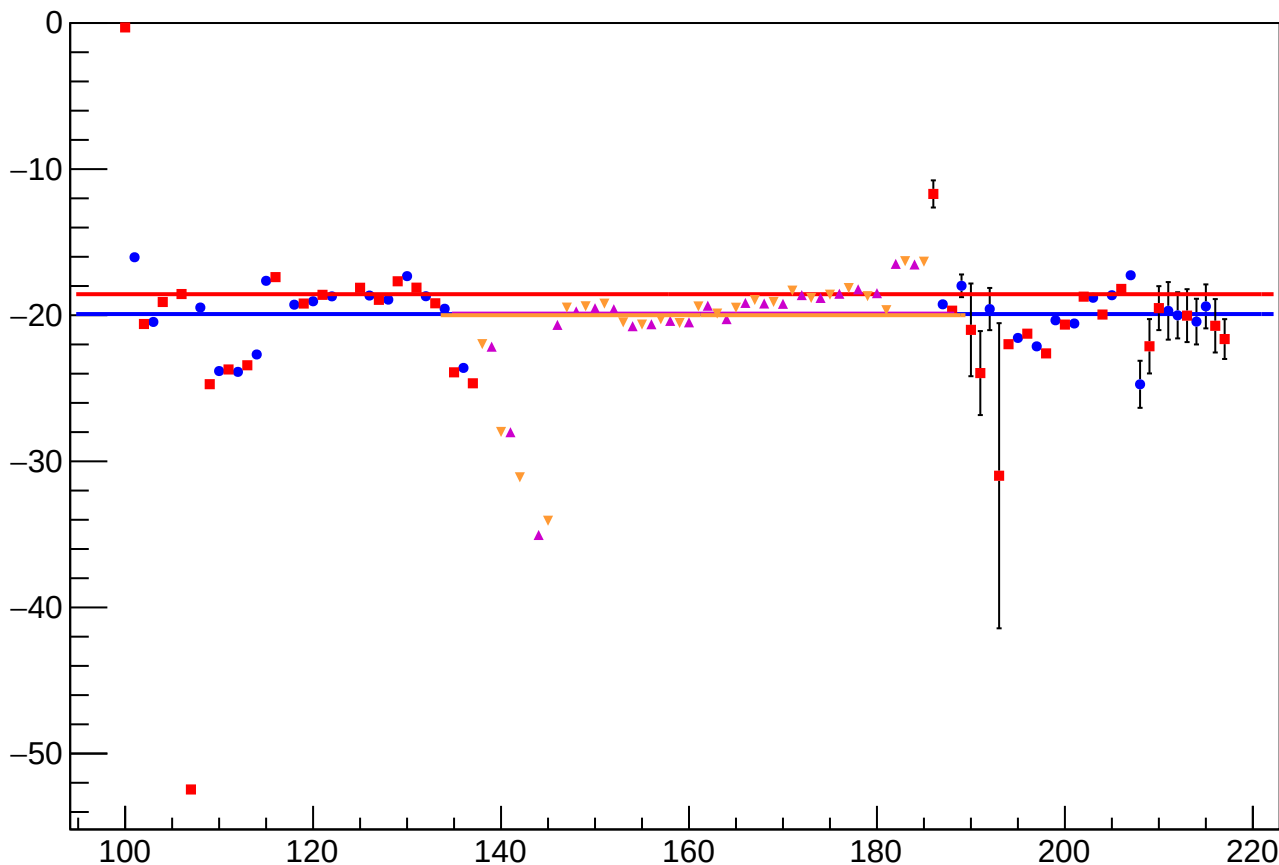
Right: 4.273 ± 0.177 χ^2/NDF : 1166.1/65

In: 7.402 ± 0.141 χ^2/NDF : 1159.6/53

Out: 7.054 ± 0.140 χ^2/NDF : 1098.4/58

All: 7.227 ± 0.099 χ^2/NDF : 2261.1/112

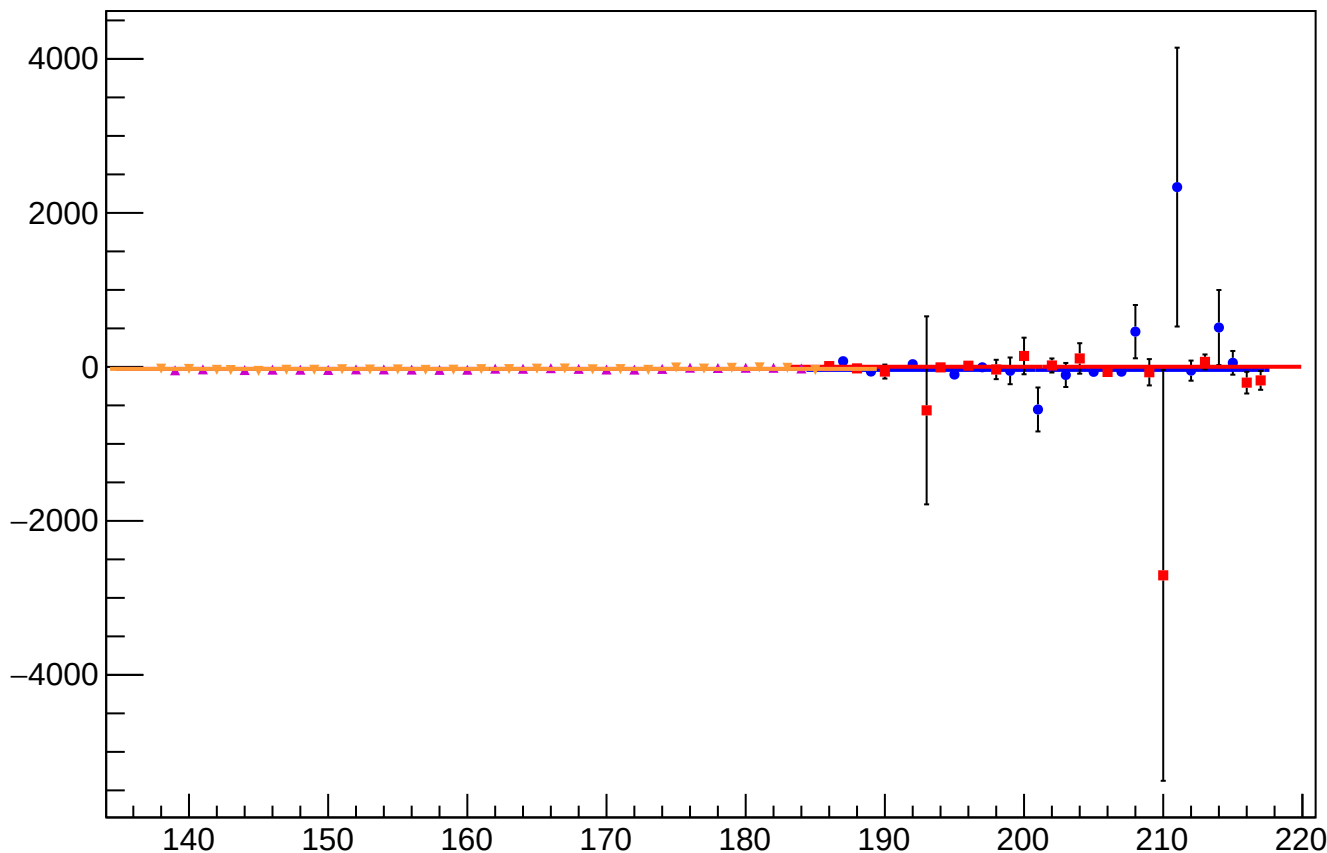
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.4/30$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.560 ± 0.014 $\chi^2/\text{NDF}: 303735.3/34$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335250.5/65$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.7/53$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483606.4/58$
 All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655375.6/112$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

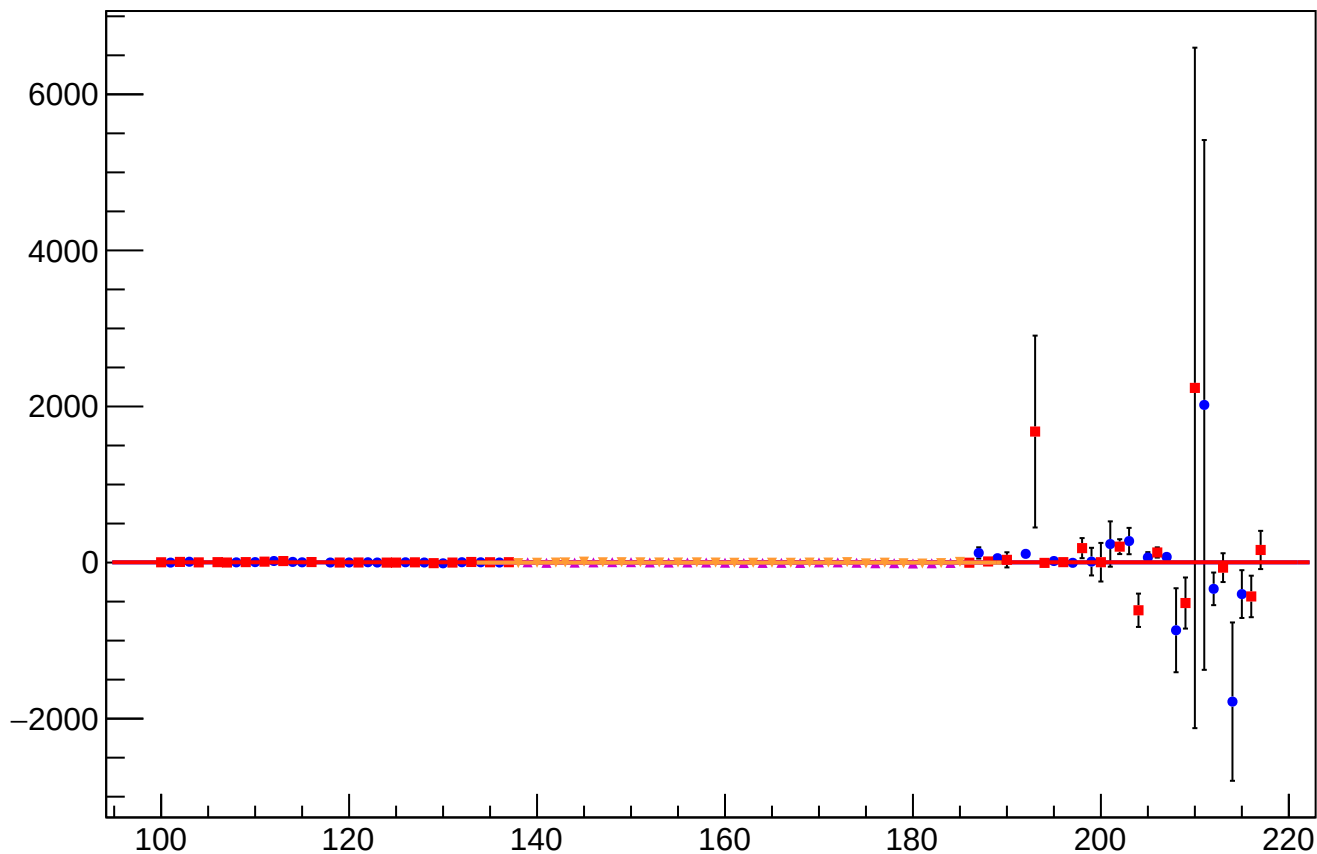


Right In: -38.919 ± 12.934 χ^2/NDF : 21.4/14
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 1.752 ± 8.052 χ^2/NDF : 11.5/15
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -9.606 ± 6.835 χ^2/NDF : 40.0/30
 In: -26.055 ± 0.195 χ^2/NDF : 3301.9/37
 Out: -25.869 ± 0.192 χ^2/NDF : 4181.3/40

All: -25.960 ± 0.137 χ^2/NDF : 7483.6/78

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

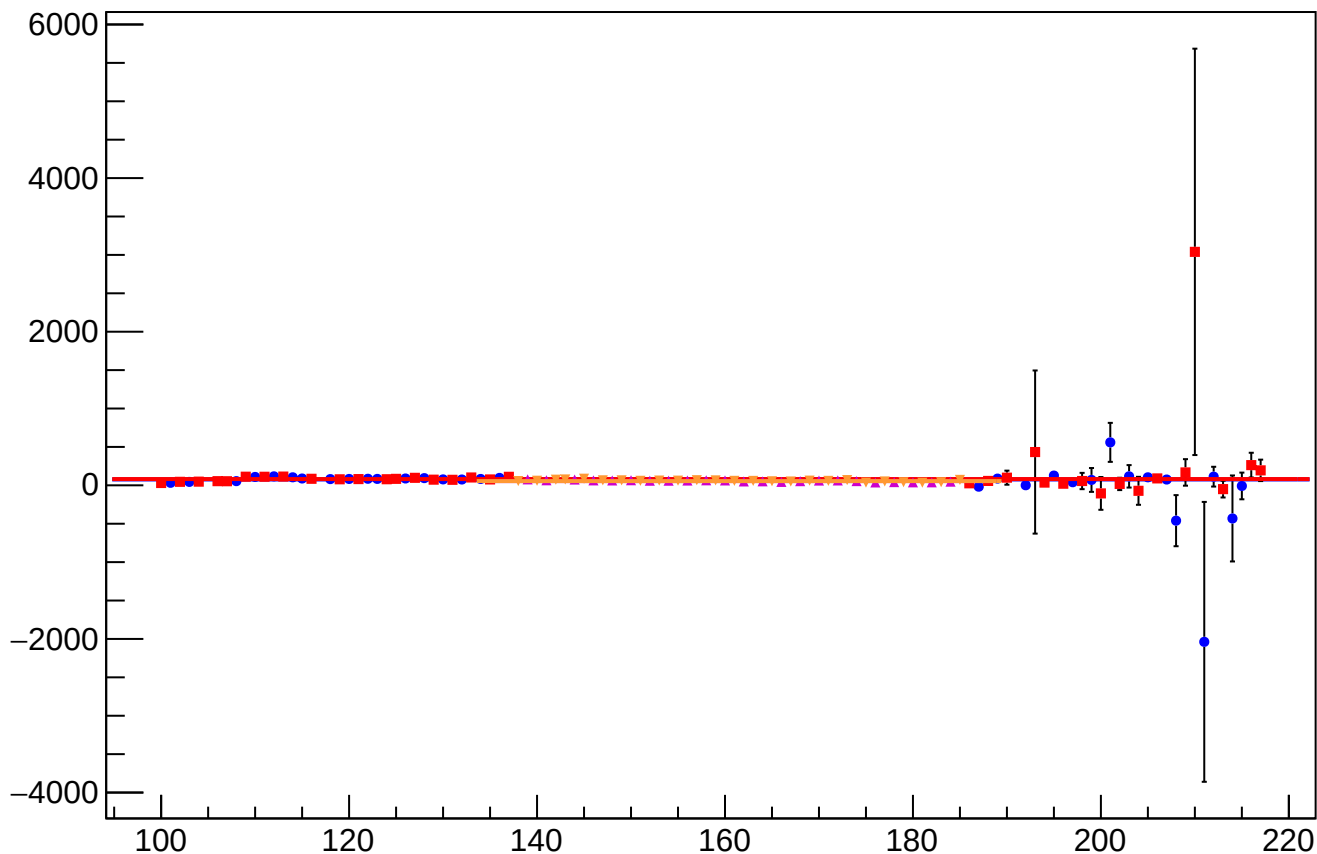


Right In: 2.475+/-0.315 χ^2/NDF : 324.1/31
 Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24
 Right Out: 3.715+/-0.327 χ^2/NDF : 295.8/34
 Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47
 Right: 3.072+/-0.227 χ^2/NDF : 627.3/66
 In: -0.242+/-0.136 χ^2/NDF : 1482.1/54
 Out: 0.075+/-0.133 χ^2/NDF : 1765.7/59

All: -0.081+/-0.095 χ^2/NDF : 3250.7/114

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.531 $\pm$ 0.576 χ^2 /NDF: 2274.4/31

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.492 $\pm$ 0.590 χ^2 /NDF: 1637.5/34

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

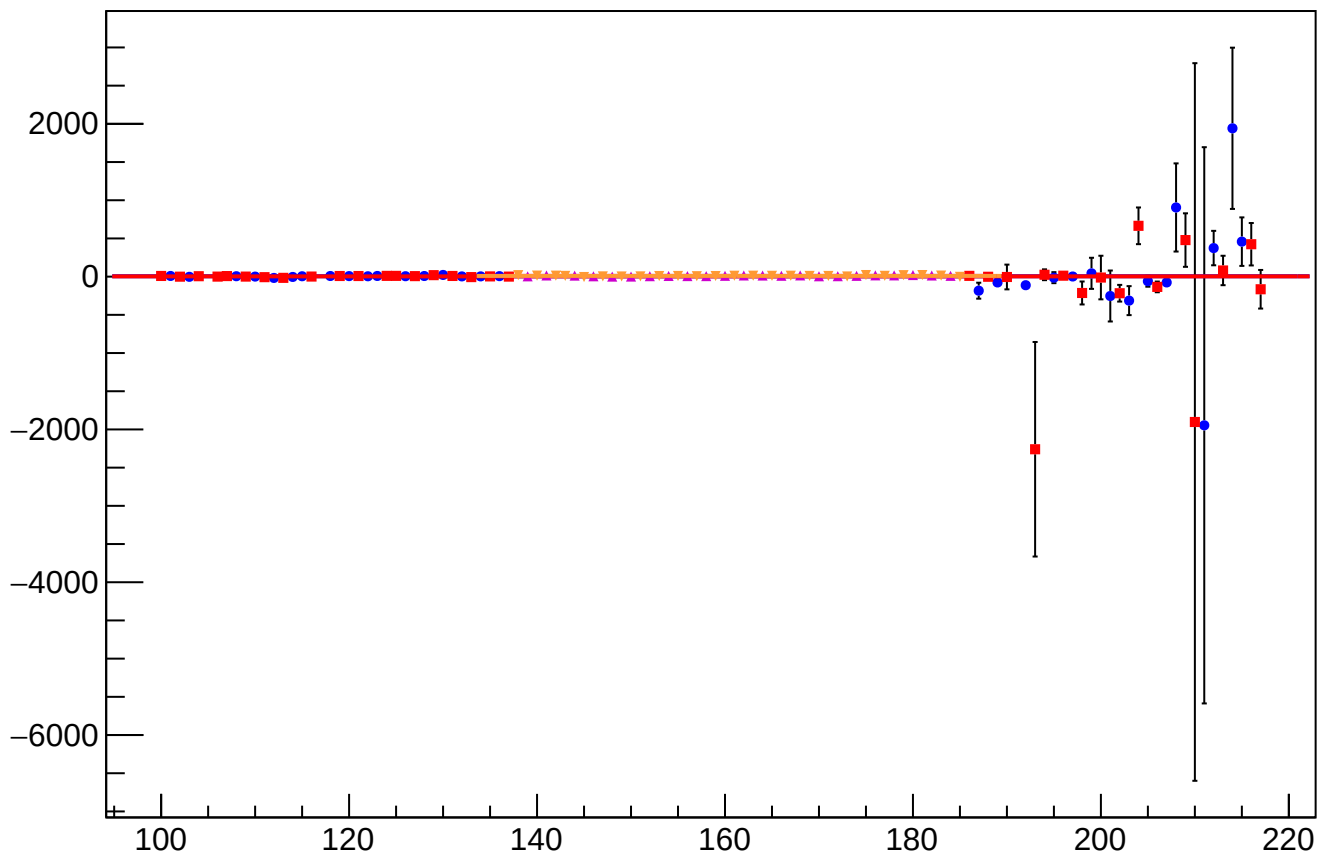
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3948.1/66

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.0/54

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8024.8/59

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15250.8/114

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 415.5/31

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.581 $\pm$ 0.375 χ^2 /NDF: 447.0/34

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

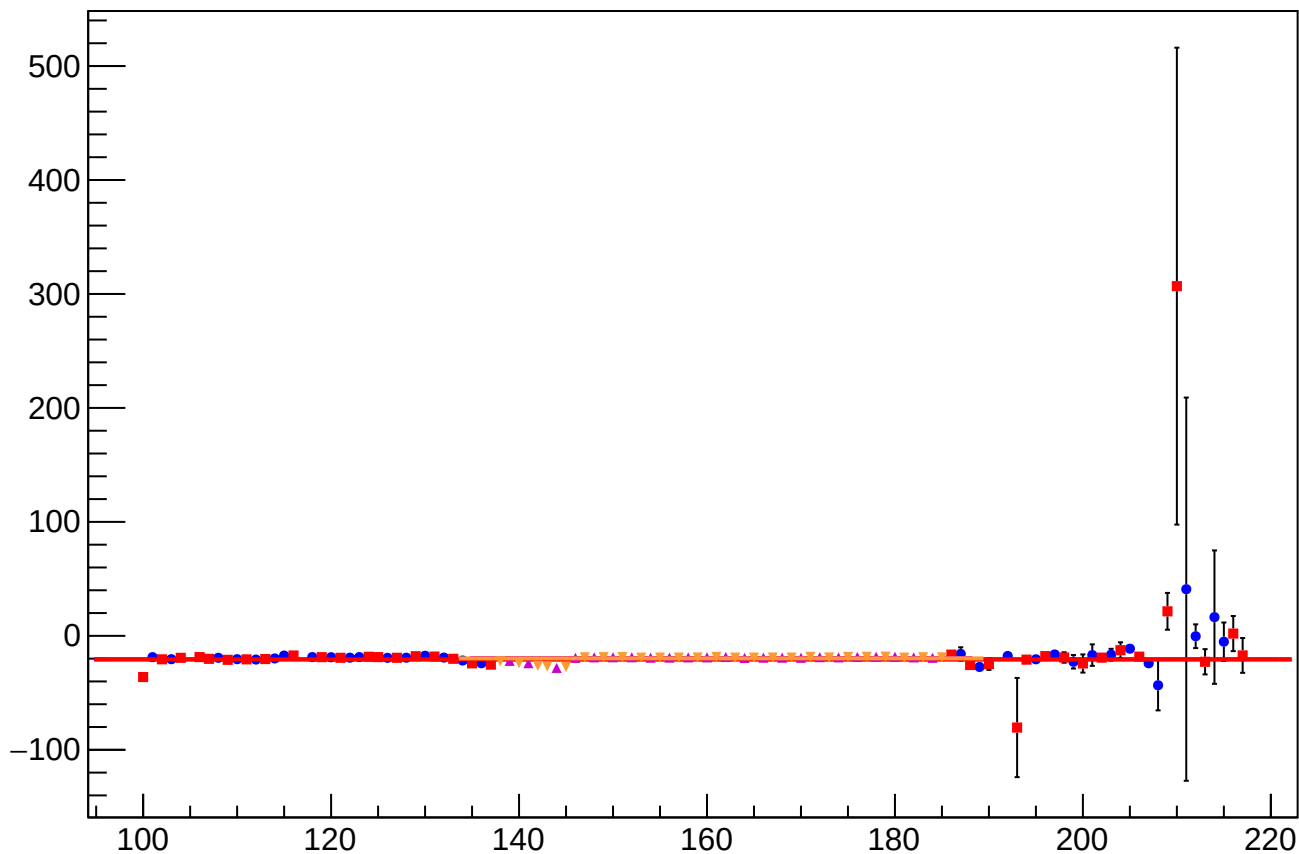
Right: 4.531 $\pm$ 0.260 χ^2 /NDF: 874.8/66

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.2/54

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2121.4/59

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3818.2/114

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12460.3/31

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13821.4/34

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

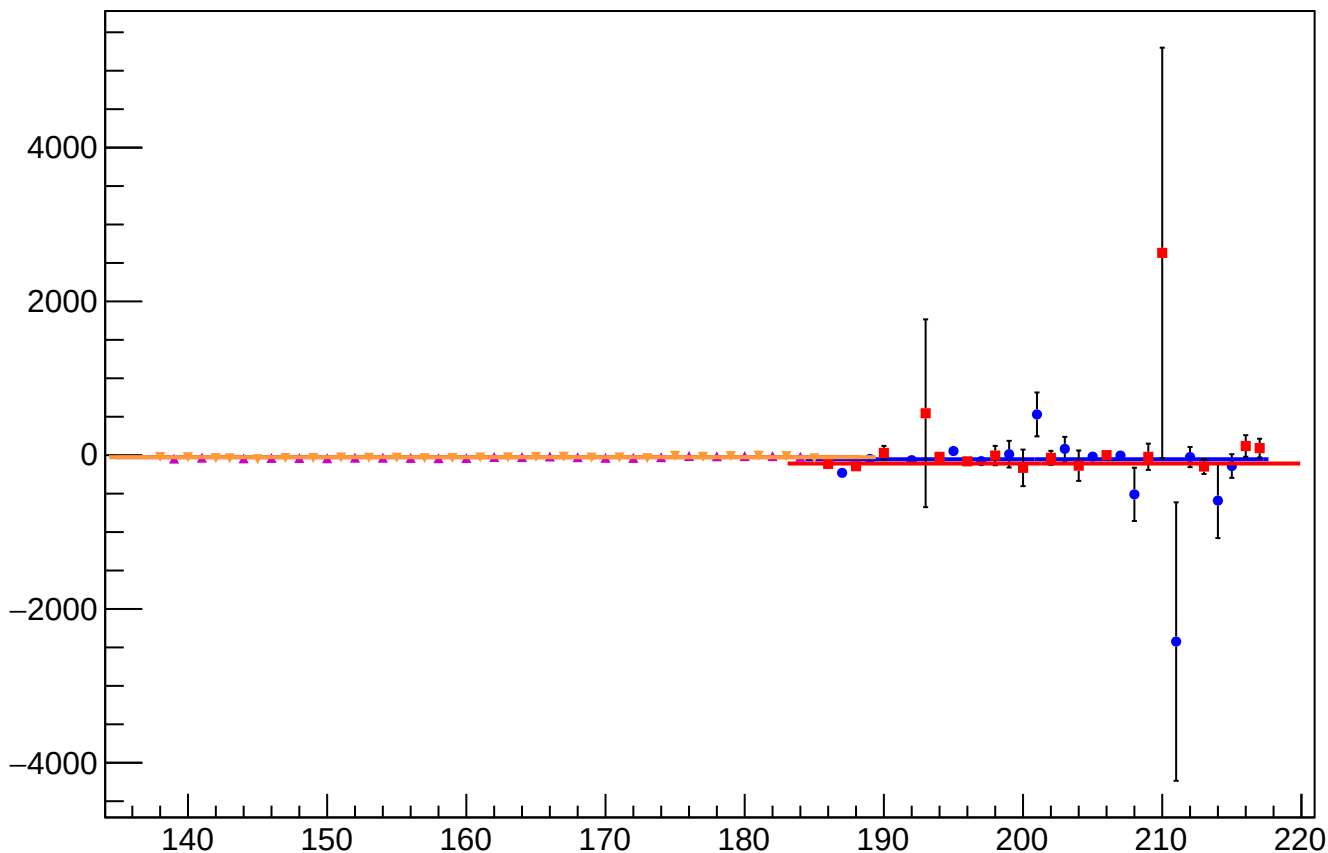
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26281.7/66

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68968.4/54

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107160.8/59

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176857.7/114

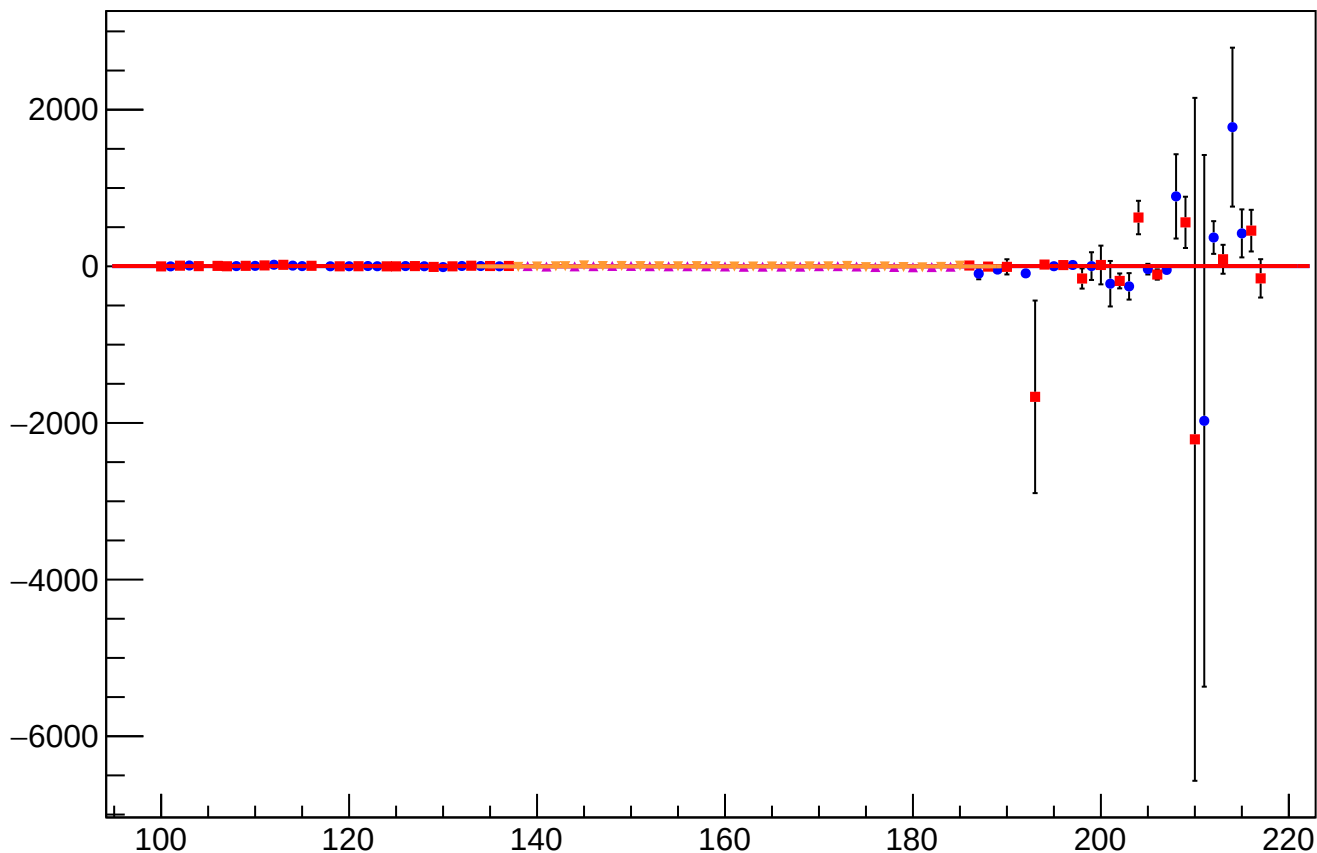
reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -52.850 ± 12.944 χ^2/NDF : 32.6/14
 Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24
 Right Out: -108.434 ± 8.057 χ^2/NDF : 22.4/15
 Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47
 Right: -92.912 ± 6.840 χ^2/NDF : 68.3/30
 In: -26.052 ± 0.195 χ^2/NDF : 3283.6/37
 Out: -25.946 ± 0.192 χ^2/NDF : 4254.8/40
 All: -25.998 ± 0.137 χ^2/NDF : 7538.6/78

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 χ^2/NDF : 316.5/31

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.594 ± 0.318 χ^2/NDF : 305.7/34

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

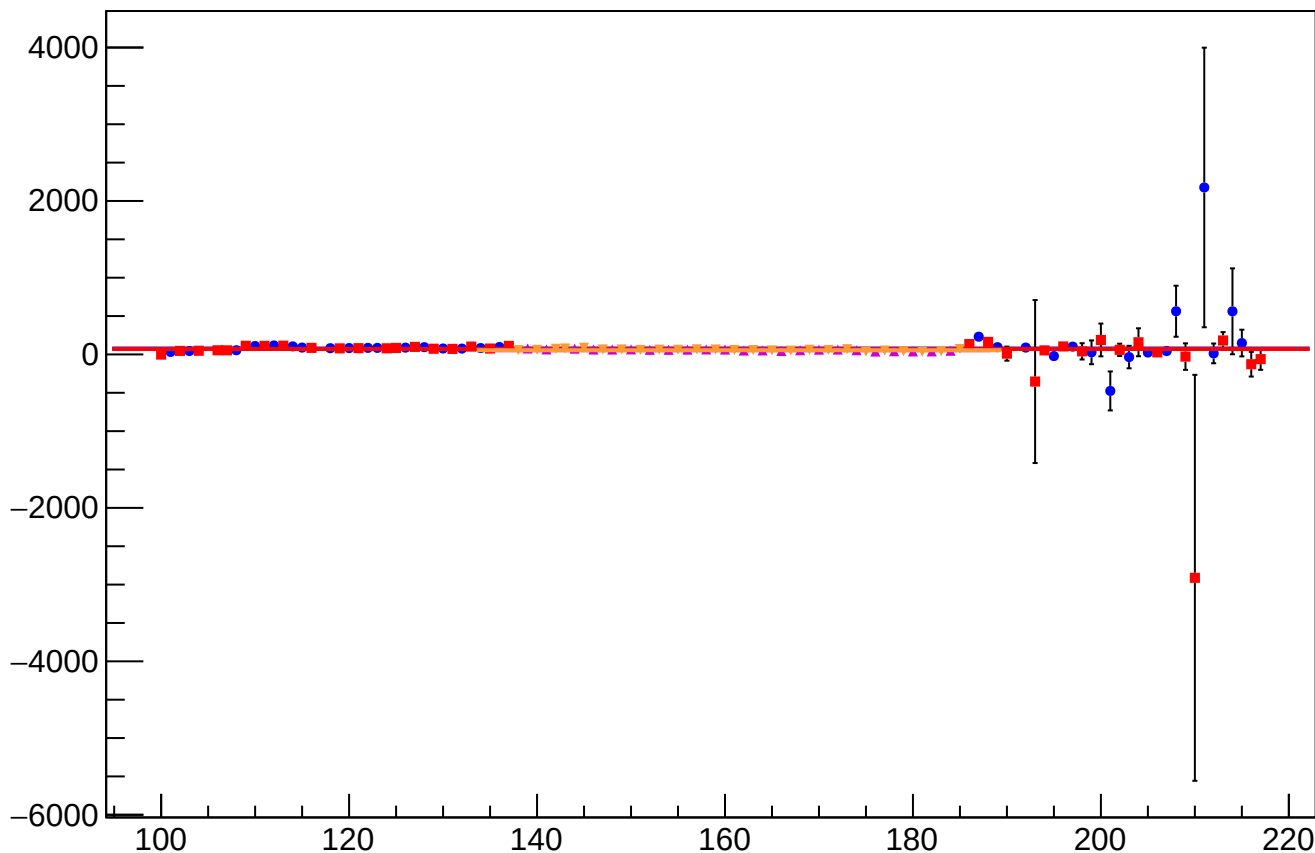
Right: 3.011 ± 0.224 χ^2/NDF : 628.9/66

In: -0.193 ± 0.136 χ^2/NDF : 1508.7/54

Out: 0.136 ± 0.133 χ^2/NDF : 1759.8/59

All: -0.025 ± 0.095 χ^2/NDF : 3271.4/114

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2300.9/31

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.746 $\pm$ 0.549 χ^2 /NDF: 4497.5/34

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

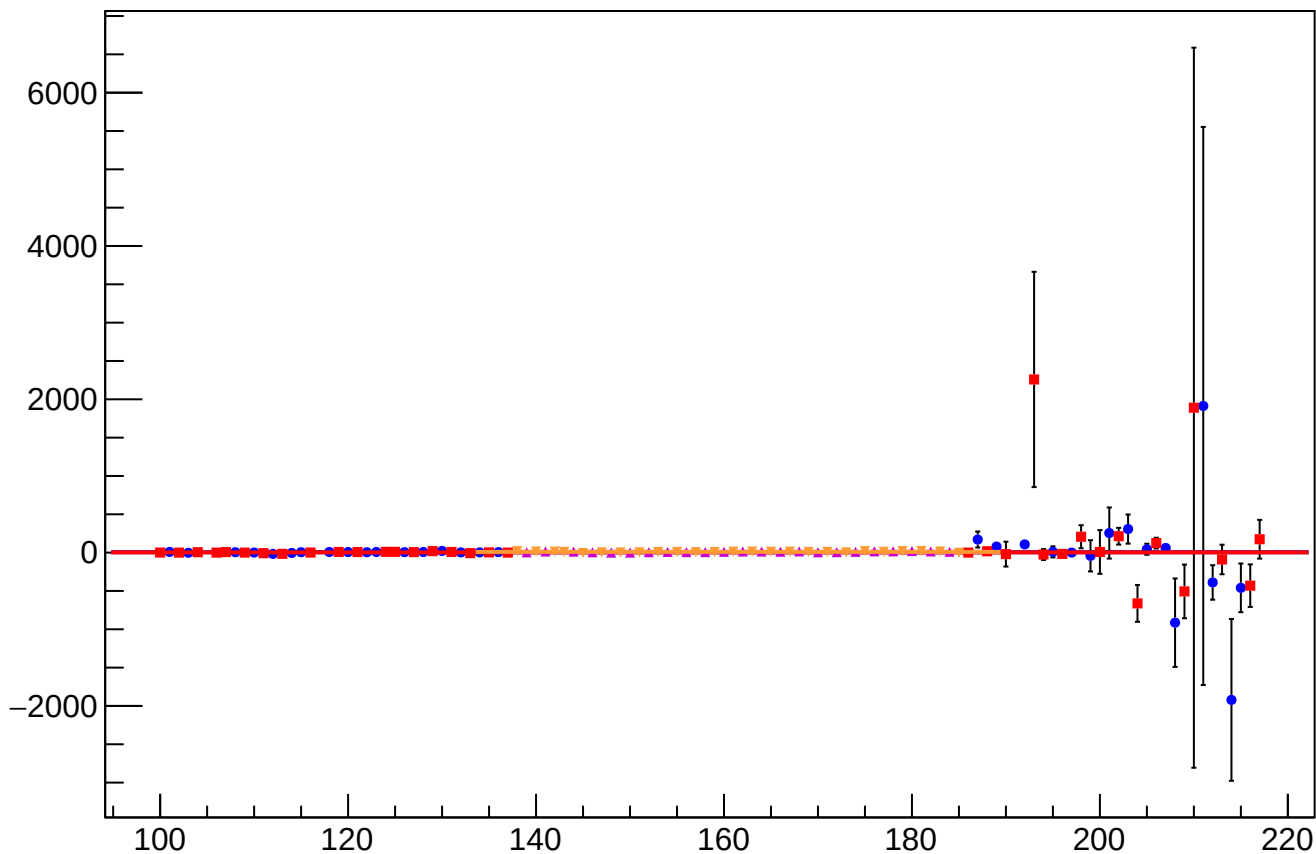
Right: 73.580 $\pm$ 0.397 χ^2 /NDF: 6854.6/66

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.0/54

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9781.6/59

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17014.0/114

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.444+/-0.361 χ^2/NDF : 409.6/31

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.282+/-0.365 χ^2/NDF : 449.6/34

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

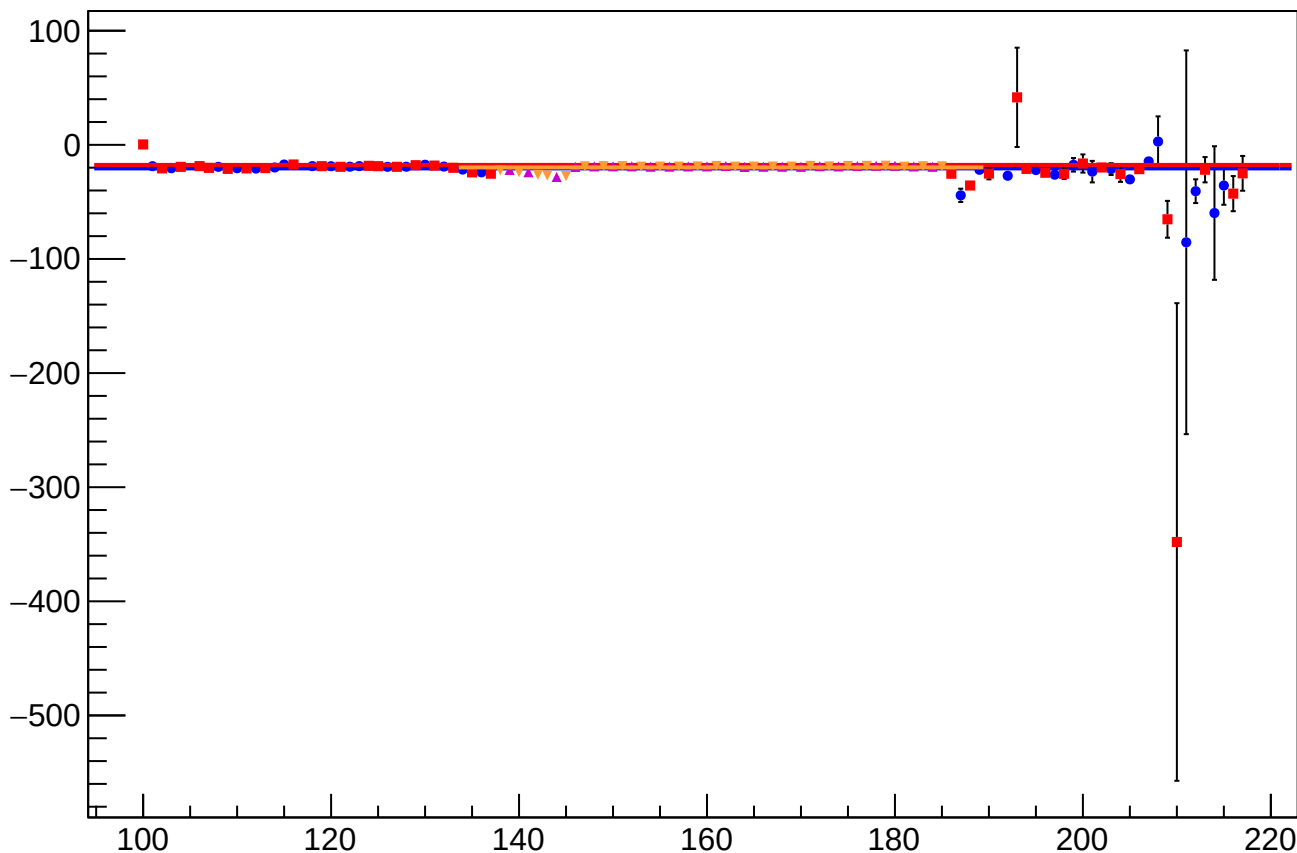
Right: 4.376+/-0.257 χ^2/NDF : 877.0/66

In: 8.945+/-0.155 χ^2/NDF :1716.1/54

Out: 8.562+/-0.153 χ^2/NDF :2143.7/59

All: 8.750+/-0.109 χ^2/NDF : 3862.9/114

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 χ^2/NDF : 12521.0/31

Left Out: -19.775 ± 0.008 χ^2/NDF : 91510.1/24

Right Out: -17.575 ± 0.018 χ^2/NDF : 178455.8/34

Left In: -19.445 ± 0.008 χ^2/NDF : 53124.1/22

Left: -19.611 ± 0.006 χ^2/NDF : 145502.5/47

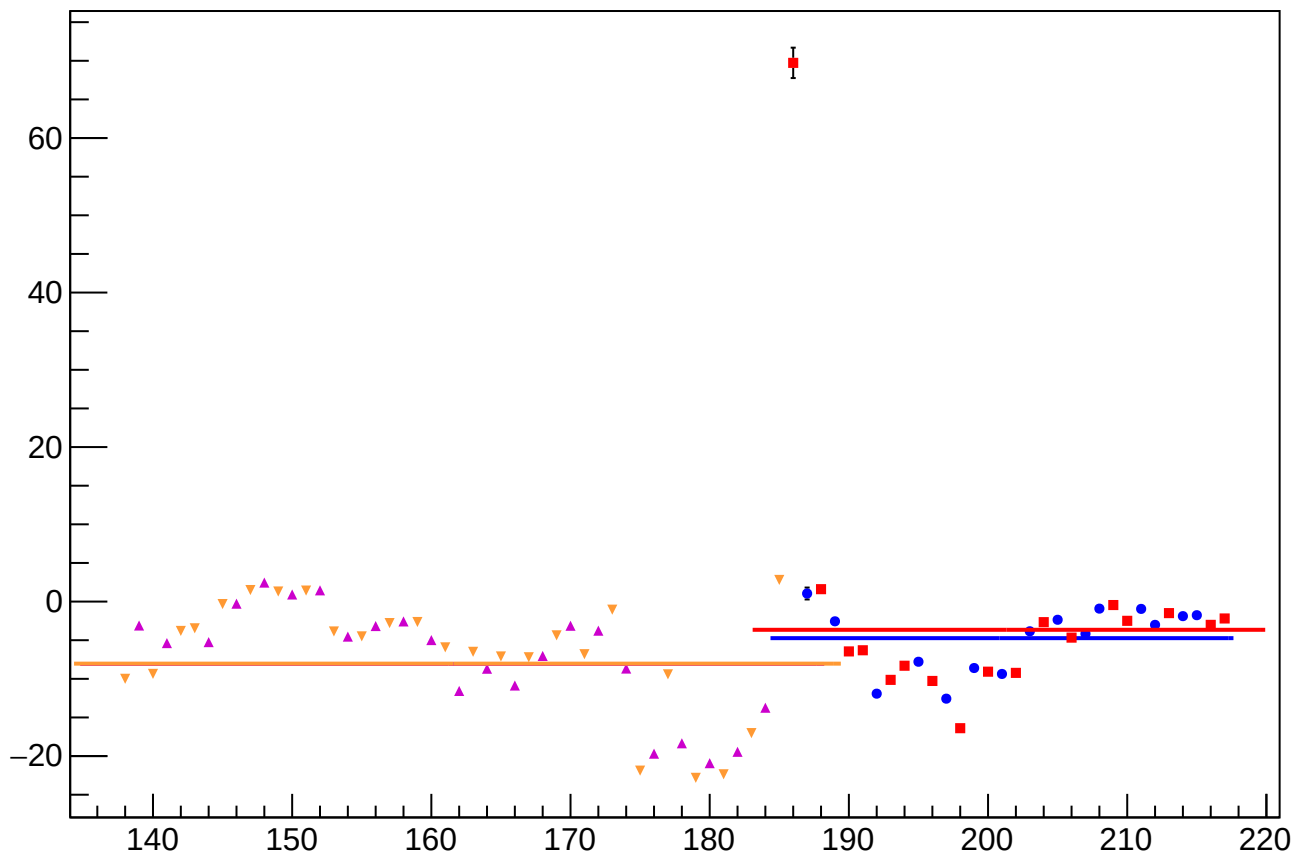
Right: -19.003 ± 0.013 χ^2/NDF : 204446.8/66

In: -19.618 ± 0.007 χ^2/NDF : 68942.9/54

Out: -19.422 ± 0.007 χ^2/NDF : 282442.1/59

All: -19.518 ± 0.005 χ^2/NDF : 351748.2/114

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

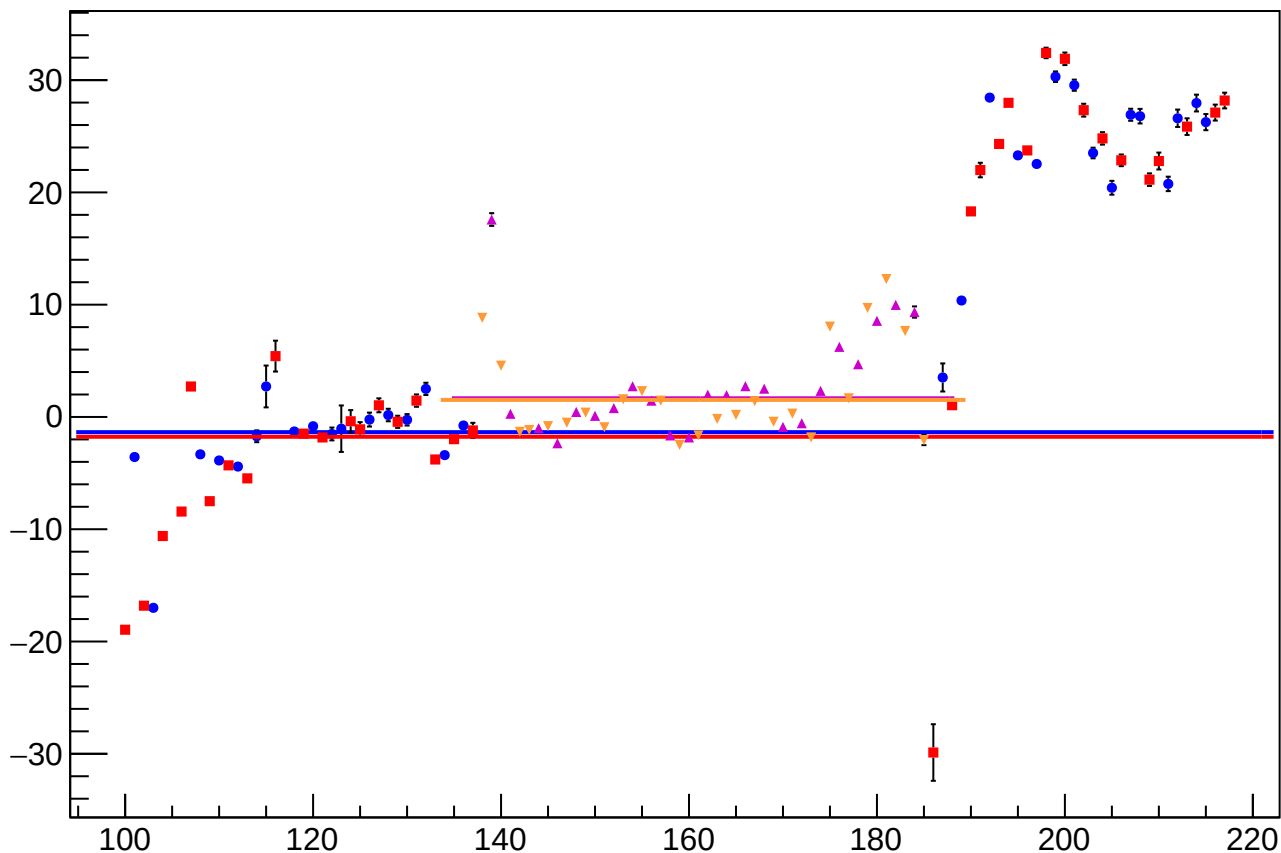


Right In: -4.734 ± 0.101 χ^2/NDF : 1552.1/14
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.652 ± 0.090 χ^2/NDF : 4163.5/16
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -4.127 ± 0.067 χ^2/NDF : 5779.7/31
 In: -6.957 ± 0.059 χ^2/NDF : 12818.5/37
 Out: -6.362 ± 0.055 χ^2/NDF : 18213.4/41

All: -6.642 ± 0.040 χ^2/NDF : 31086.3/79

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.353 ± 0.051 $\chi^2/\text{NDF}: 50773.4/31$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.764 ± 0.053 $\chi^2/\text{NDF}: 61496.1/35$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

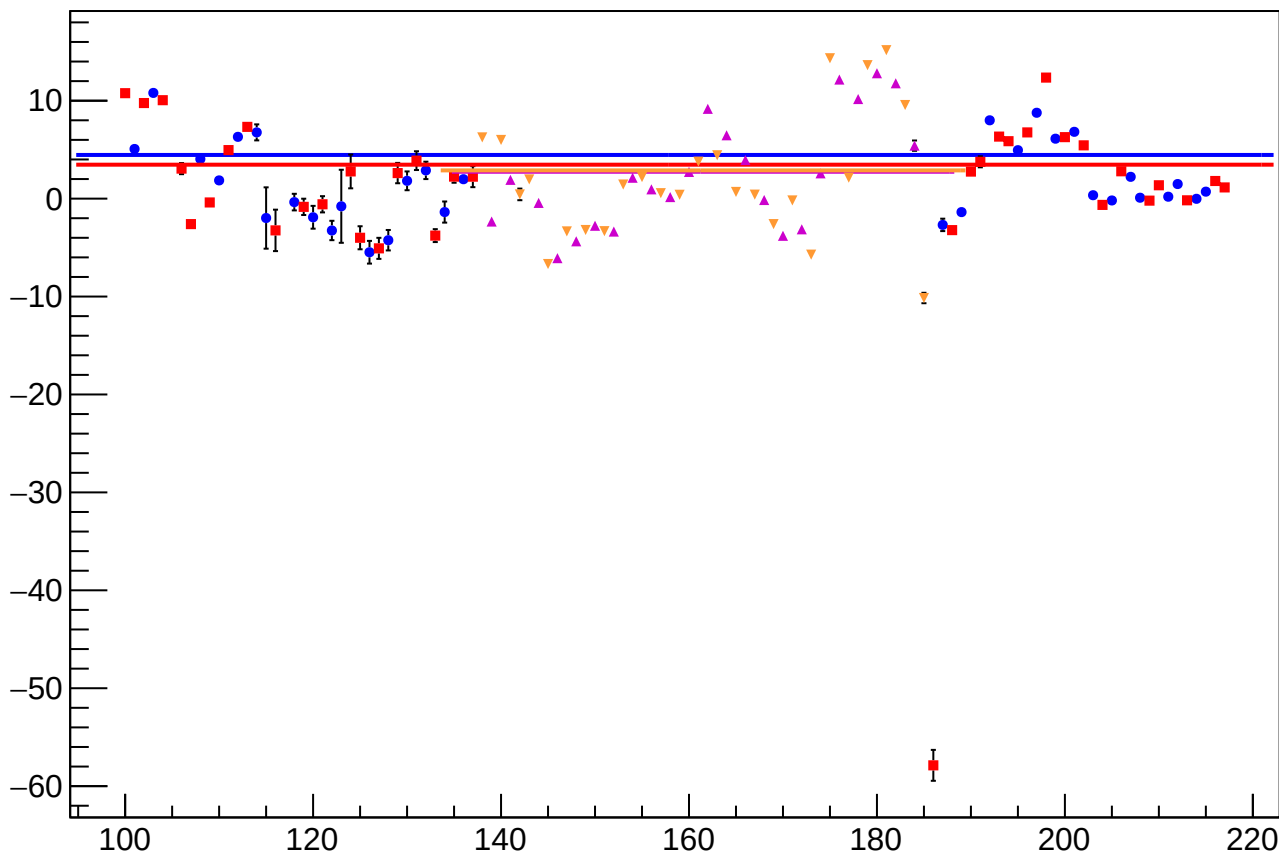
Right: -1.550 ± 0.037 $\chi^2/\text{NDF}: 112300.7/67$

In: -0.004 ± 0.038 $\chi^2/\text{NDF}: 56377.3/54$

Out: -0.163 ± 0.038 $\chi^2/\text{NDF}: 68211.1/60$

All: -0.083 ± 0.027 $\chi^2/\text{NDF}: 124597.2/115$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.461 ± 0.066 $\chi^2/\text{NDF}: 3292.6/31$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.466 ± 0.062 $\chi^2/\text{NDF}: 8124.1/35$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

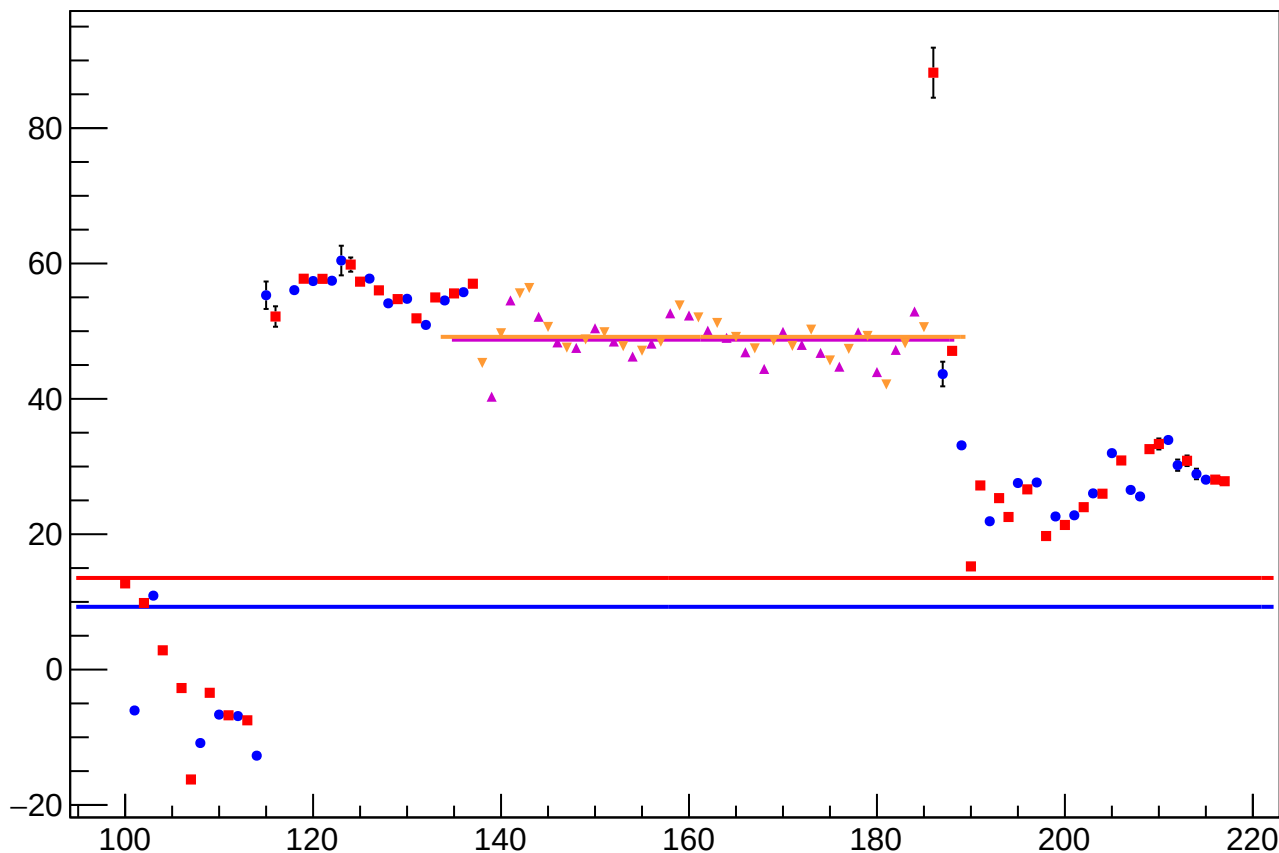
Right: 3.934 ± 0.045 $\chi^2/\text{NDF}: 11537.8/67$

In: 3.673 ± 0.048 $\chi^2/\text{NDF}: 10787.7/54$

Out: 3.212 ± 0.046 $\chi^2/\text{NDF}: 17055.9/60$

All: 3.433 ± 0.034 $\chi^2/\text{NDF}: 27891.0/115$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.275+/-0.060 χ^2/NDF : 136312.8/31

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.539+/-0.063 χ^2/NDF : 138551.5/35

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

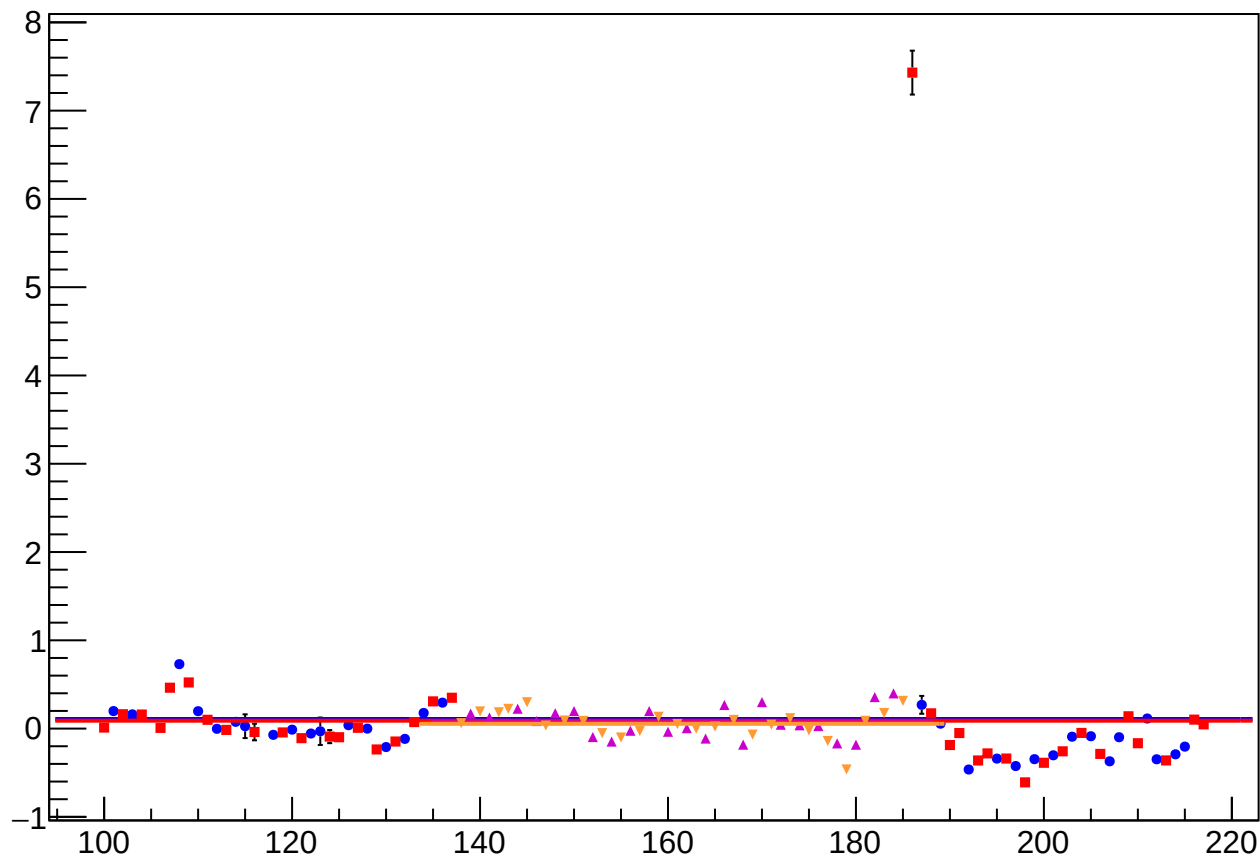
Right: 11.305+/-0.043 χ^2/NDF : 277278.2/67

In: 27.776+/-0.044 χ^2/NDF :341945.5/54

Out: 31.661+/-0.044 χ^2/NDF :304376.8/60

All: 29.702+/-0.031 χ^2/NDF : 650248.7/115

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.109+/-0.002 χ^2/NDF : 11864.9/31

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.090+/-0.002 χ^2/NDF : 11111.8/35

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

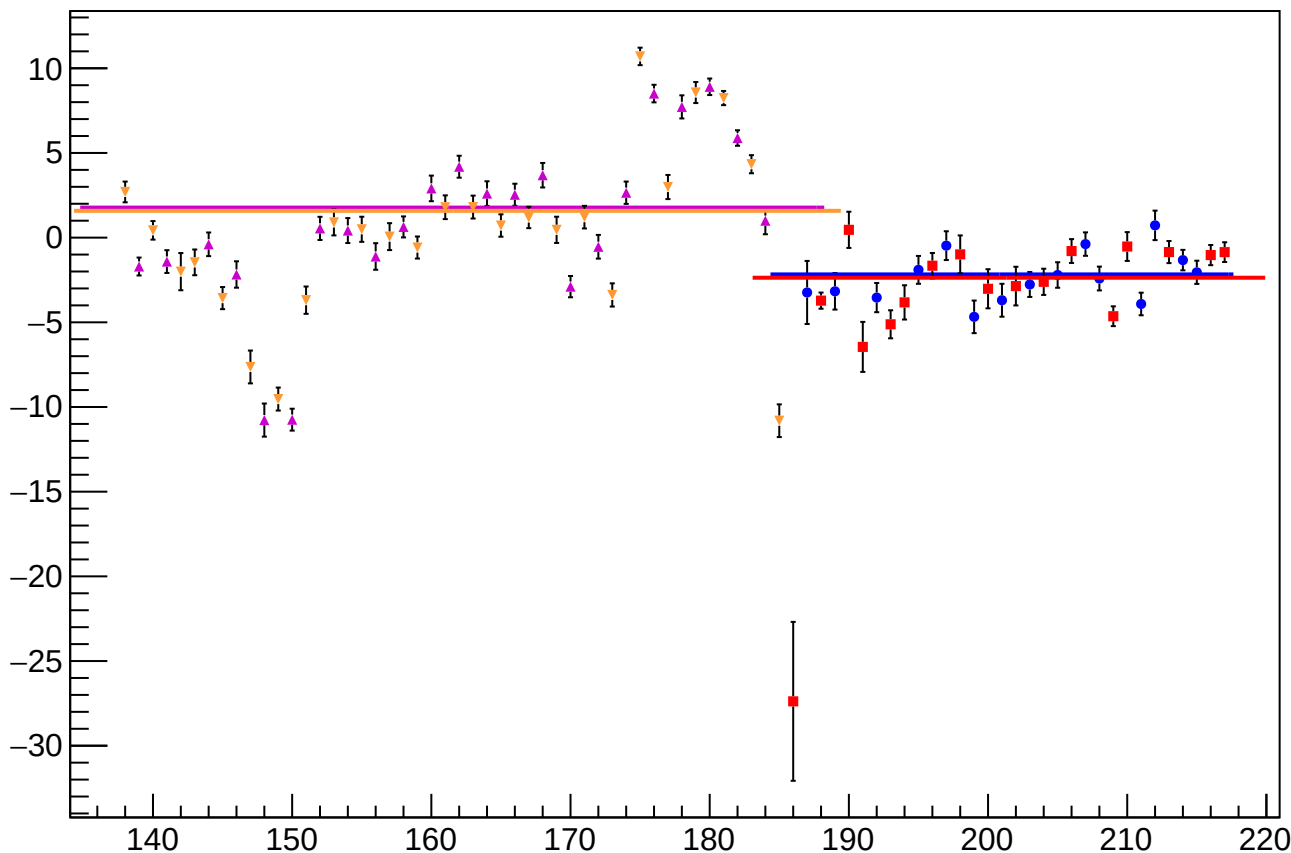
Right: 0.099+/-0.002 χ^2/NDF : 23007.5/67

In: 0.092+/-0.002 χ^2/NDF : 15201.5/54

Out: 0.075+/-0.002 χ^2/NDF : 13585.3/60

All: 0.083+/-0.001 χ^2/NDF : 28831.5/115

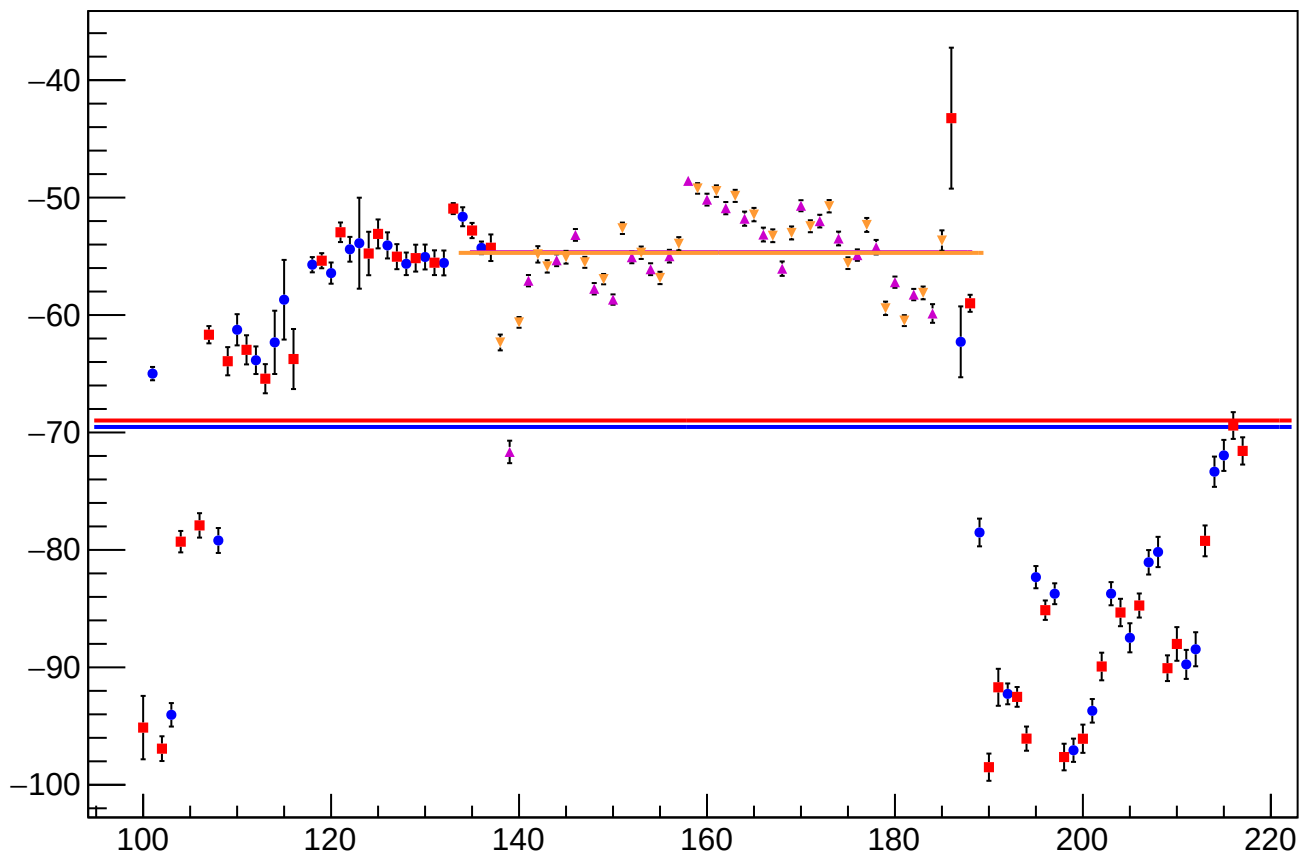
reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.172 ± 0.206 χ^2/NDF : 44.4/14
 Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24
 Right Out: -2.367 ± 0.188 χ^2/NDF : 109.2/16
 Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47
 Right: -2.278 ± 0.139 χ^2/NDF : 154.1/31
 In: 0.583 ± 0.113 χ^2/NDF : 1598.7/37
 Out: 0.267 ± 0.108 χ^2/NDF : 1863.6/41
 All: 0.419 ± 0.078 χ^2/NDF : 3466.3/79

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.532 ± 0.178 $\chi^2/\text{NDF}: 7335.1/31$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -68.981 ± 0.166 $\chi^2/\text{NDF}: 10379.9/35$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

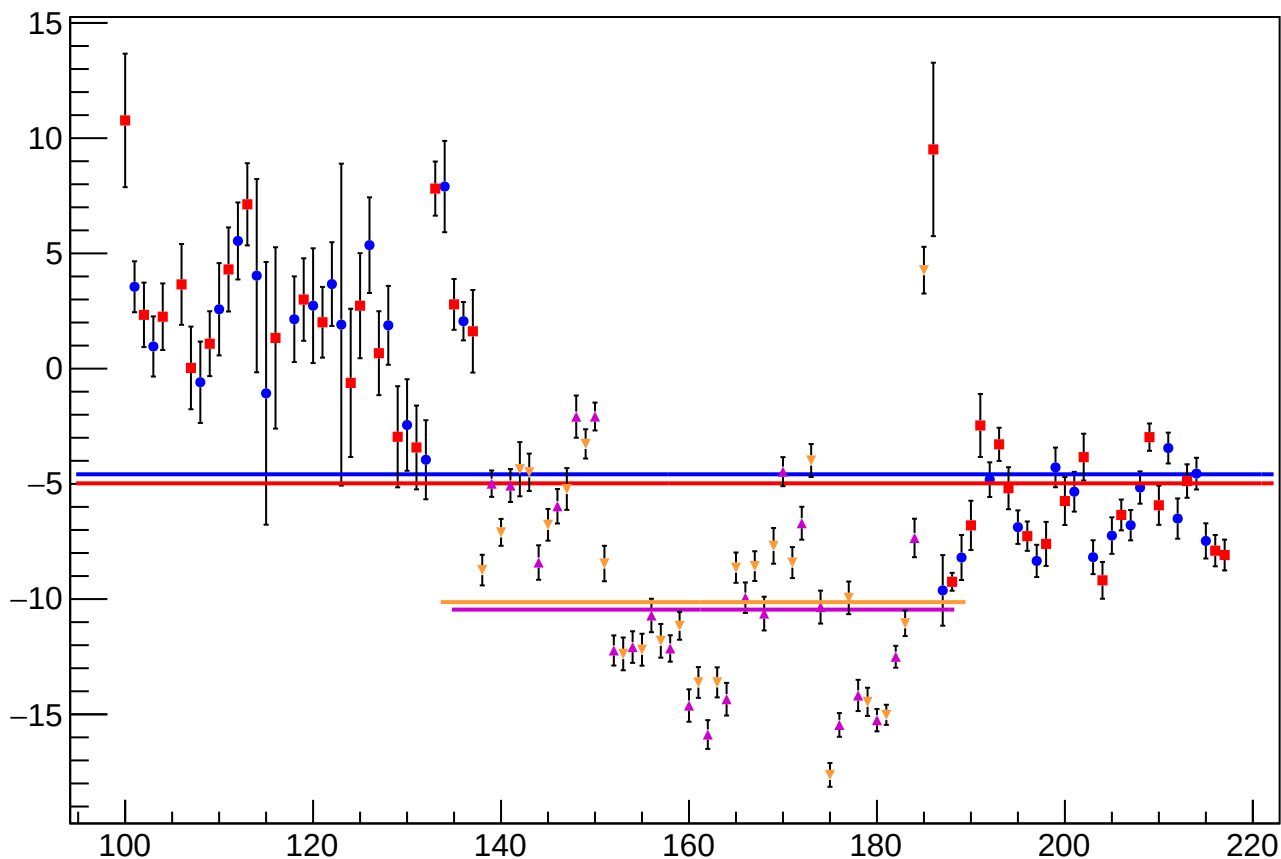
Right: -69.237 ± 0.121 $\chi^2/\text{NDF}: 17720.2/67$

In: -58.766 ± 0.093 $\chi^2/\text{NDF}: 13494.7/54$

Out: -58.835 ± 0.089 $\chi^2/\text{NDF}: 16779.7/60$

All: -58.802 ± 0.064 $\chi^2/\text{NDF}: 30274.7/115$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.585 ± 0.179 $\chi^2/\text{NDF}: 450.3/31$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -4.977 ± 0.163 $\chi^2/\text{NDF}: 709.3/35$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

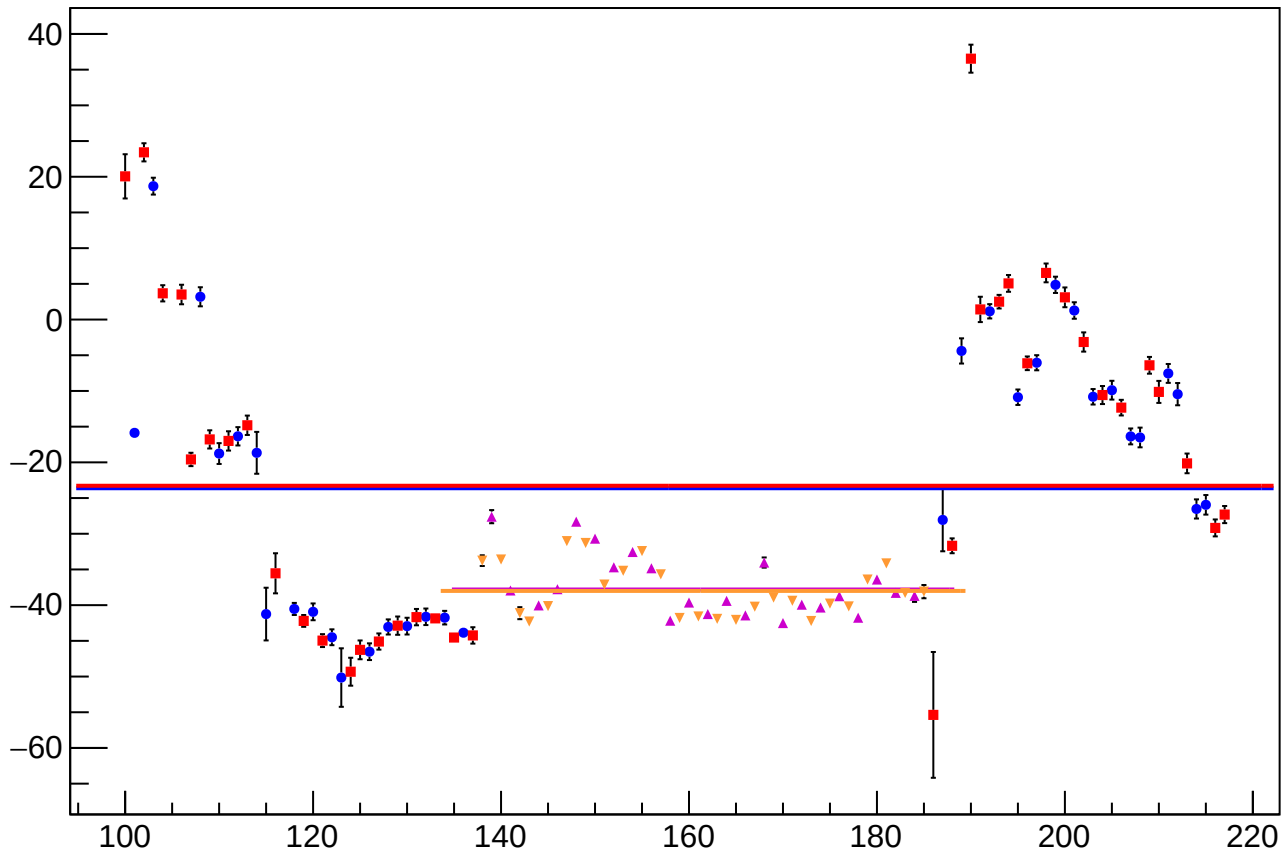
Right: -4.800 ± 0.121 $\chi^2/\text{NDF}: 1162.2/67$

In: -8.339 ± 0.108 $\chi^2/\text{NDF}: 2138.7/54$

Out: -8.073 ± 0.103 $\chi^2/\text{NDF}: 2366.2/60$

All: -8.200 ± 0.074 $\chi^2/\text{NDF}: 4508.0/115$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.626 ± 0.201 χ^2/NDF : 8669.2/31

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -23.278 ± 0.191 χ^2/NDF : 11928.4/35

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

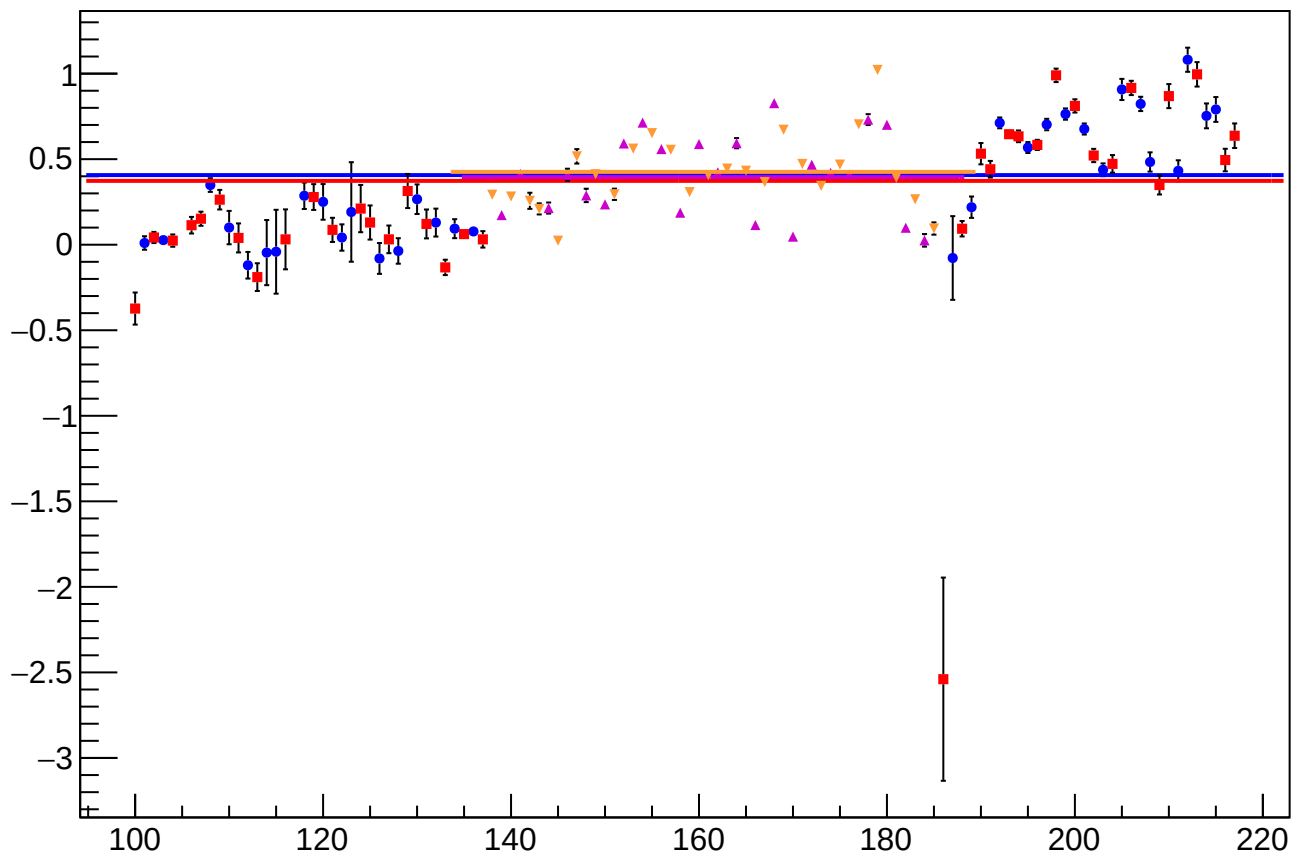
Right: -23.443 ± 0.139 χ^2/NDF : 20599.2/67

In: -33.981 ± 0.104 χ^2/NDF : 13338.8/54

Out: -33.904 ± 0.101 χ^2/NDF : 17159.4/60

All: -33.942 ± 0.073 χ^2/NDF : 30498.5/115

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.008 χ^2 /NDF: 1402.0/31

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.373 $\pm$ 0.008 χ^2 /NDF: 1723.5/35

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

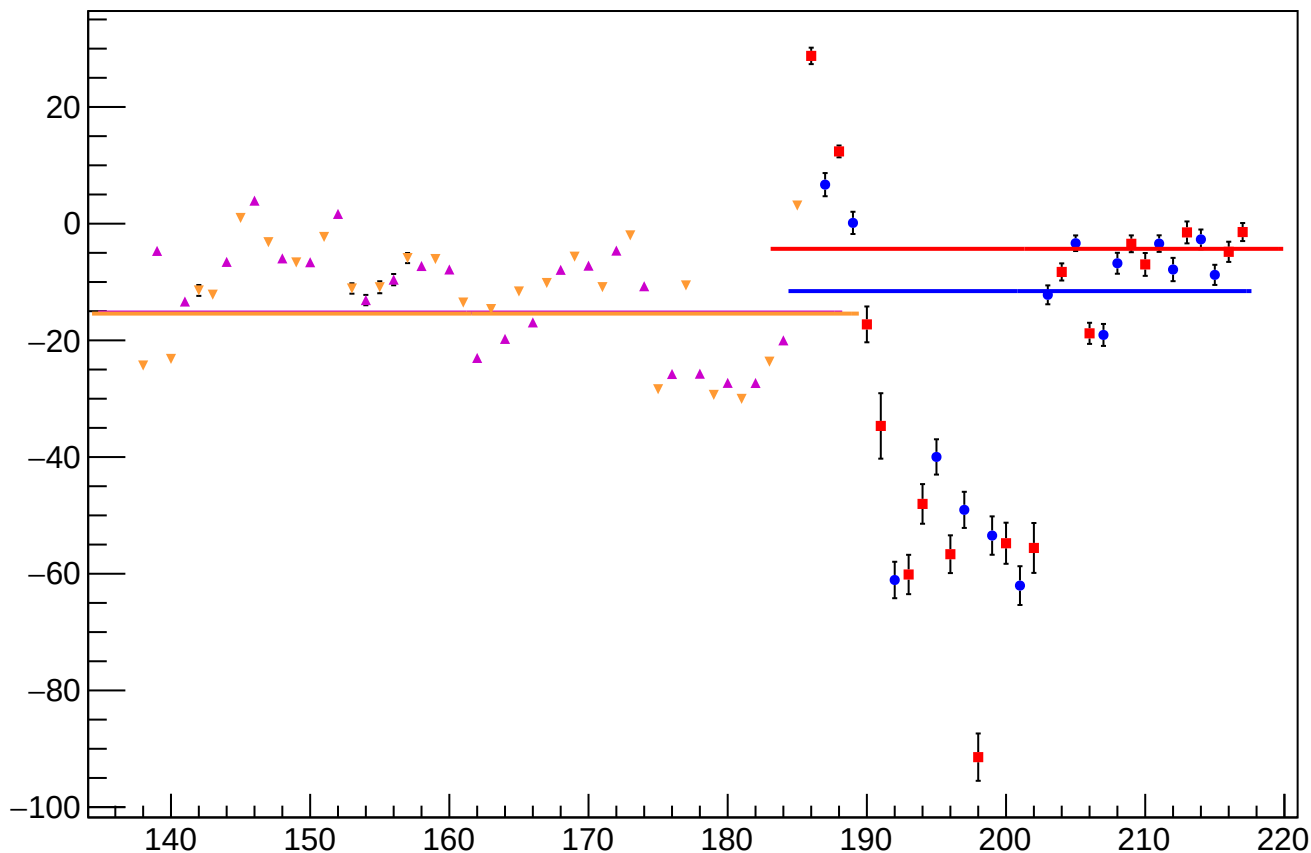
Right: 0.389 $\pm$ 0.006 χ^2 /NDF: 3133.7/67

In: 0.398 $\pm$ 0.005 χ^2 /NDF:3201.6/54

Out: 0.410 $\pm$ 0.004 χ^2 /NDF:3056.2/60

All: 0.404 $\pm$ 0.003 χ^2 /NDF: 6260.9/115

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected

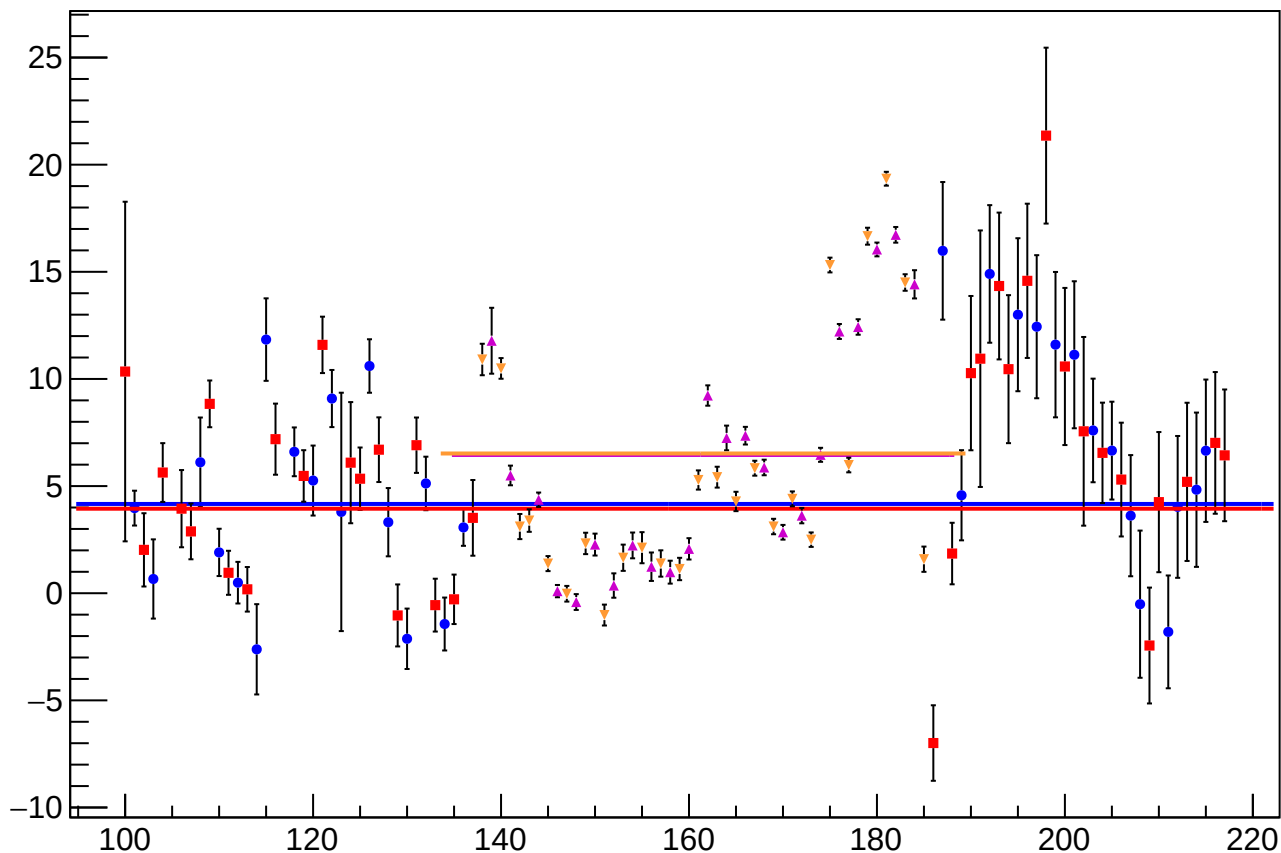


Right In: -11.557 ± 0.501 $\chi^2/\text{NDF}: 1128.4/14$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.312 ± 0.465 $\chi^2/\text{NDF}: 2460.5/16$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$
 Right: -7.666 ± 0.341 $\chi^2/\text{NDF}: 3701.4/31$
 In: -15.070 ± 0.104 $\chi^2/\text{NDF}: 9837.2/37$
 Out: -14.872 ± 0.103 $\chi^2/\text{NDF}: 13512.1/41$

All: -14.969 ± 0.073 $\chi^2/\text{NDF}: 23351.1/79$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.166+/-0.288 χ^2/NDF : 194.3/31

Left Out: 6.521+/-0.085 χ^2/NDF : 4985.2/24

Right Out: 3.945+/-0.287 χ^2/NDF : 230.9/35

Left In: 6.452+/-0.086 χ^2/NDF : 3948.0/22

Left: 6.487+/-0.061 χ^2/NDF : 8933.5/47

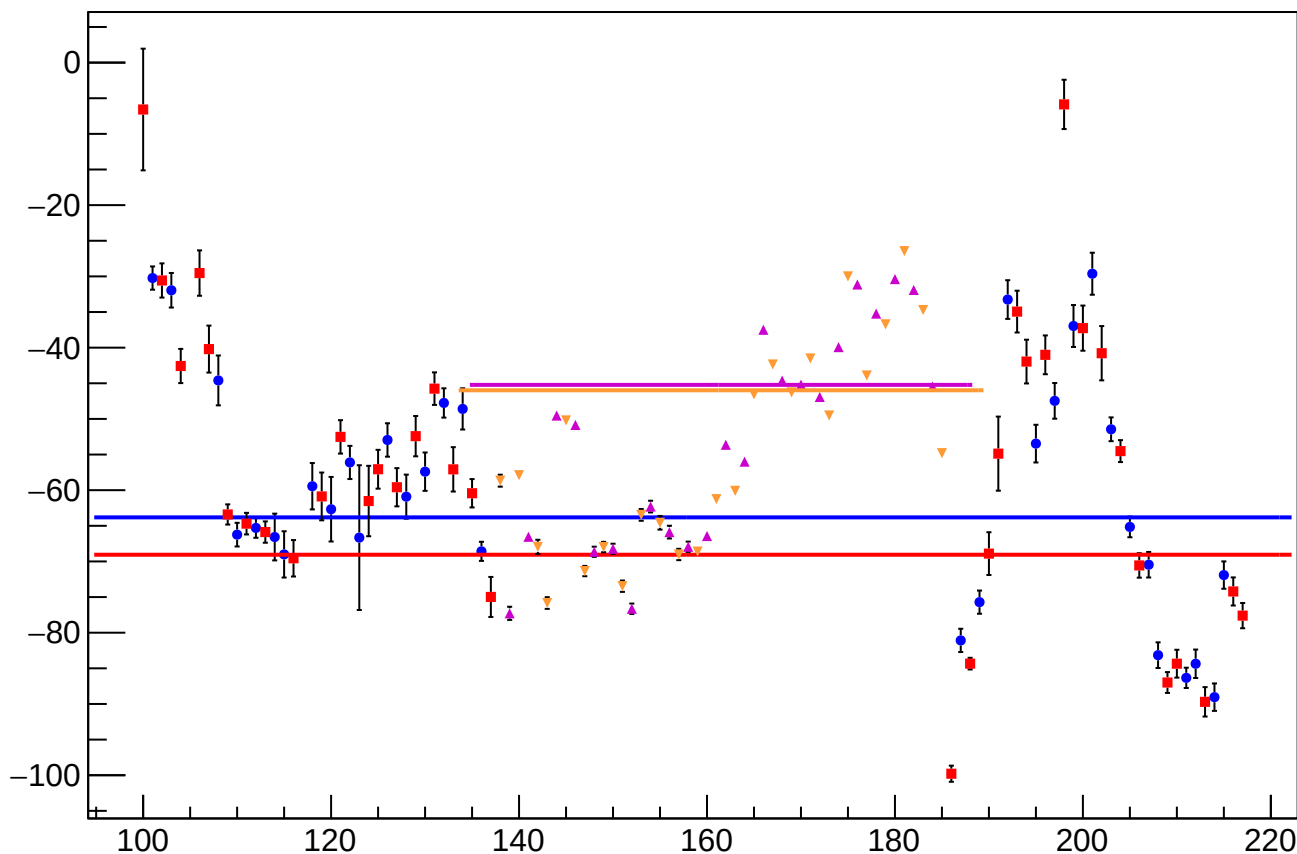
Right: 4.055+/-0.203 χ^2/NDF : 425.5/67

In: 6.264+/-0.083 χ^2/NDF : 4200.2/54

Out: 6.311+/-0.082 χ^2/NDF : 5290.2/60

All: 6.288+/-0.058 χ^2/NDF : 9490.6/115

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.816 ± 0.364 χ^2/NDF : 2074.1/31

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -69.059 ± 0.337 χ^2/NDF : 3294.1/35

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

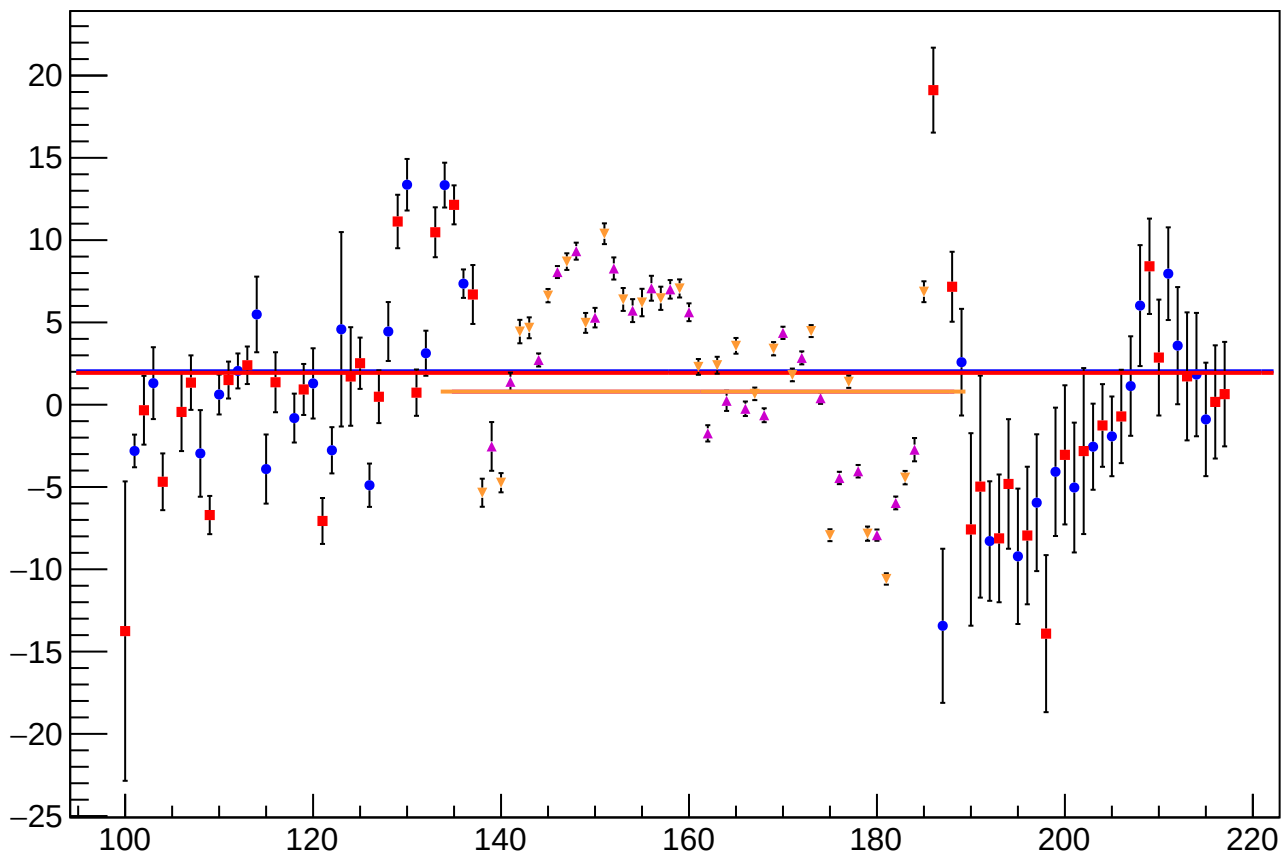
Right: -66.641 ± 0.247 χ^2/NDF : 5479.8/67

In: -46.704 ± 0.103 χ^2/NDF : 20072.1/54

Out: -48.069 ± 0.101 χ^2/NDF : 24920.1/60

All: -47.396 ± 0.072 χ^2/NDF : 45081.6/115

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.031 ± 0.323 χ^2/NDF : 292.3/31

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.935 ± 0.326 χ^2/NDF : 355.2/35

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

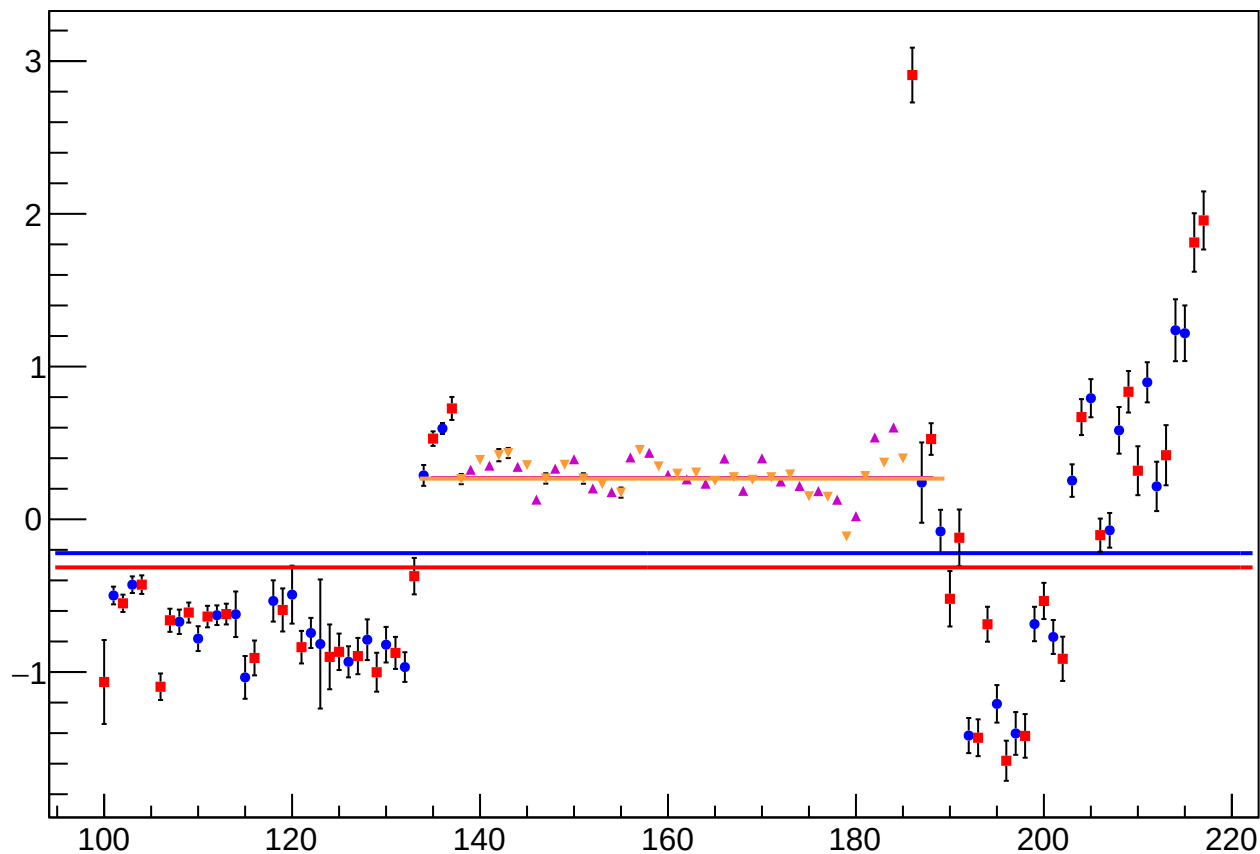
Right: 1.984 ± 0.230 χ^2/NDF : 647.5/67

In: 0.894 ± 0.093 χ^2/NDF : 2998.3/54

Out: 0.887 ± 0.092 χ^2/NDF : 4126.4/60

All: 0.891 ± 0.065 χ^2/NDF : 7124.7/115

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.222 ± 0.017 χ^2/NDF : 1555.9/31

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.315 ± 0.017 χ^2/NDF : 1963.2/35

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

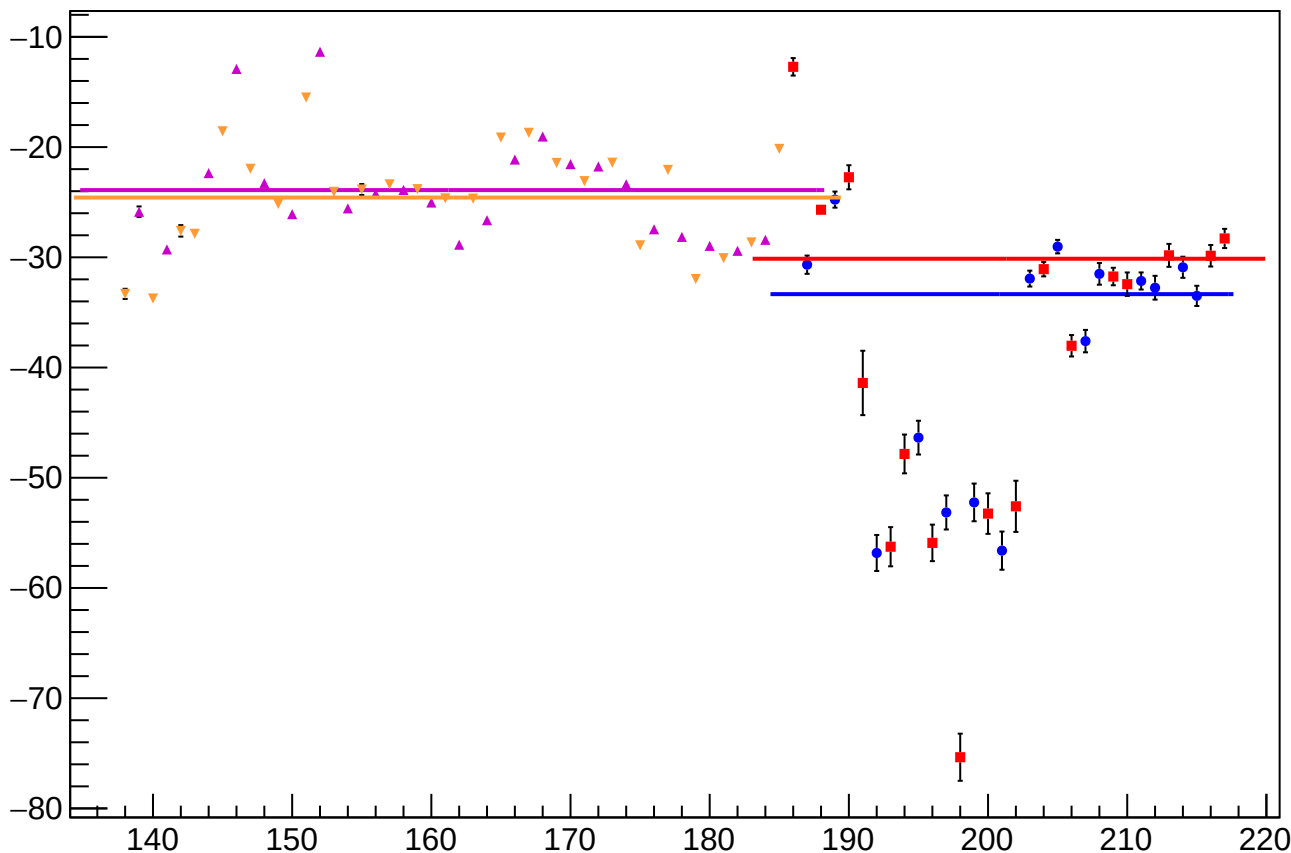
Right: -0.268 ± 0.012 χ^2/NDF : 3534.9/67

In: 0.238 ± 0.004 χ^2/NDF : 3347.0/54

Out: 0.229 ± 0.004 χ^2/NDF : 3818.5/60

All: 0.233 ± 0.003 χ^2/NDF : 7167.6/115

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.341 ± 0.245 $\chi^2/\text{NDF}: 977.3/14$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -30.130 ± 0.231 $\chi^2/\text{NDF}: 1988.2/16$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

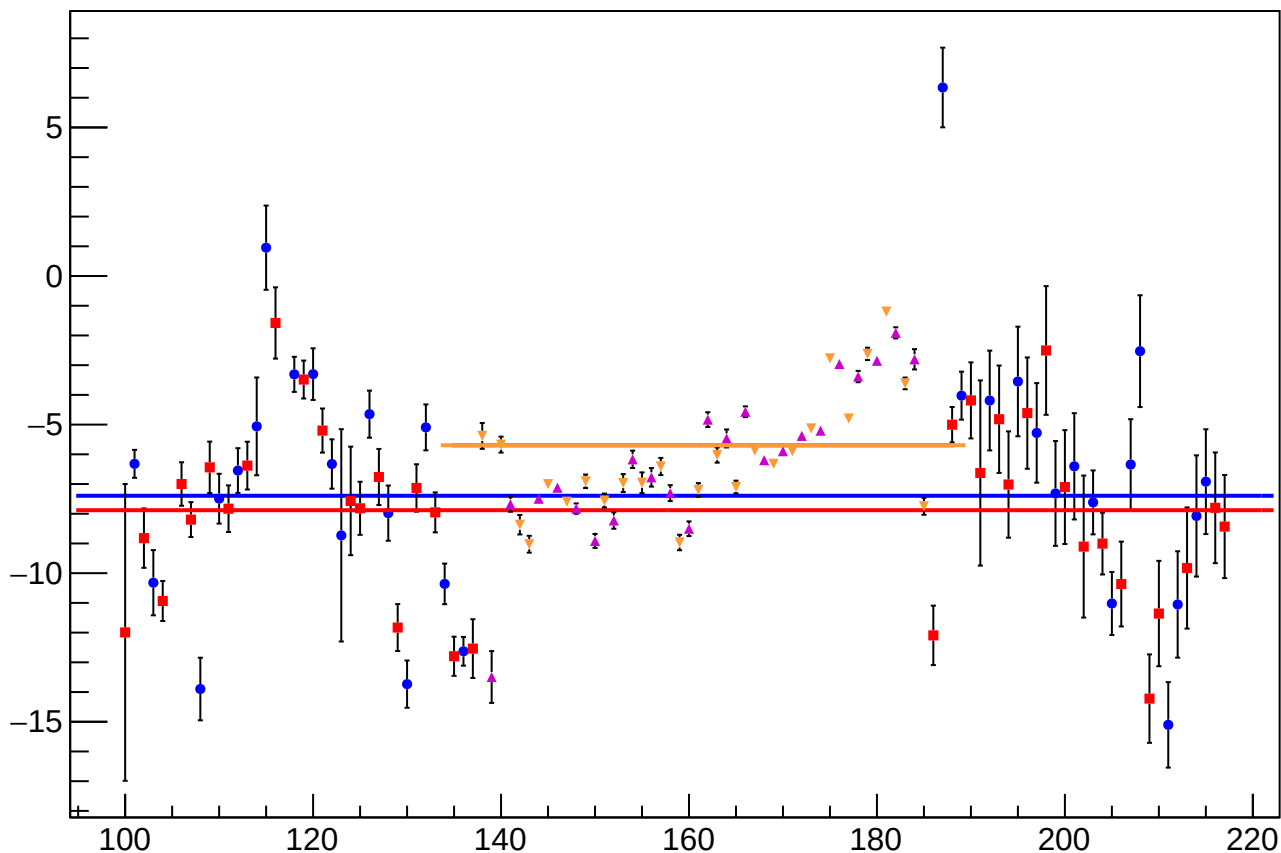
Right: -31.636 ± 0.168 $\chi^2/\text{NDF}: 3056.4/31$

In: -24.293 ± 0.050 $\chi^2/\text{NDF}: 11550.2/37$

Out: -24.836 ± 0.050 $\chi^2/\text{NDF}: 11130.8/41$

All: -24.566 ± 0.035 $\chi^2/\text{NDF}: 22740.1/79$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.395 ± 0.167 χ^2/NDF : 565.8/31

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.881 ± 0.162 χ^2/NDF : 313.0/35

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

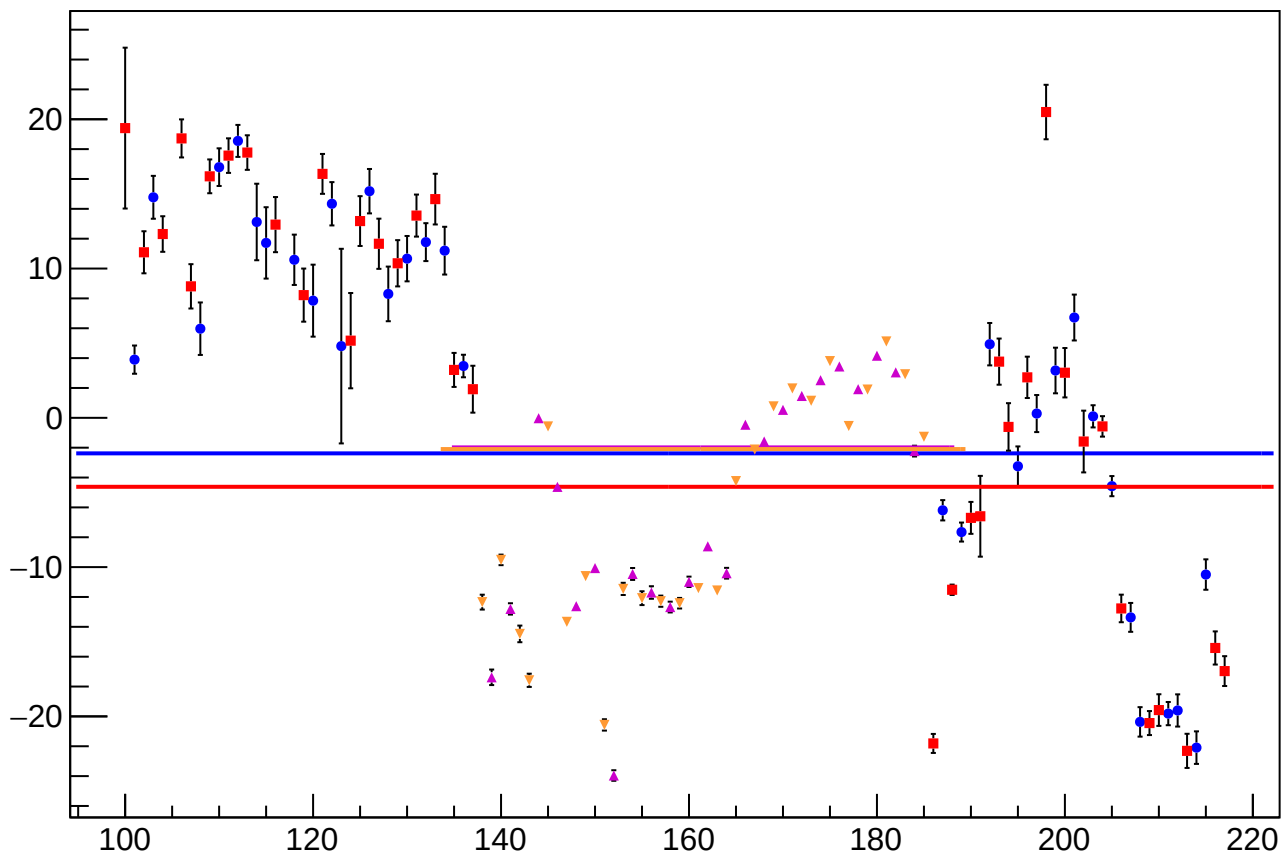
Right: -7.644 ± 0.116 χ^2/NDF : 883.2/67

In: -5.792 ± 0.040 χ^2/NDF : 2973.6/54

Out: -5.826 ± 0.040 χ^2/NDF : 2742.1/60

All: -5.809 ± 0.028 χ^2/NDF : 5716.1/115

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

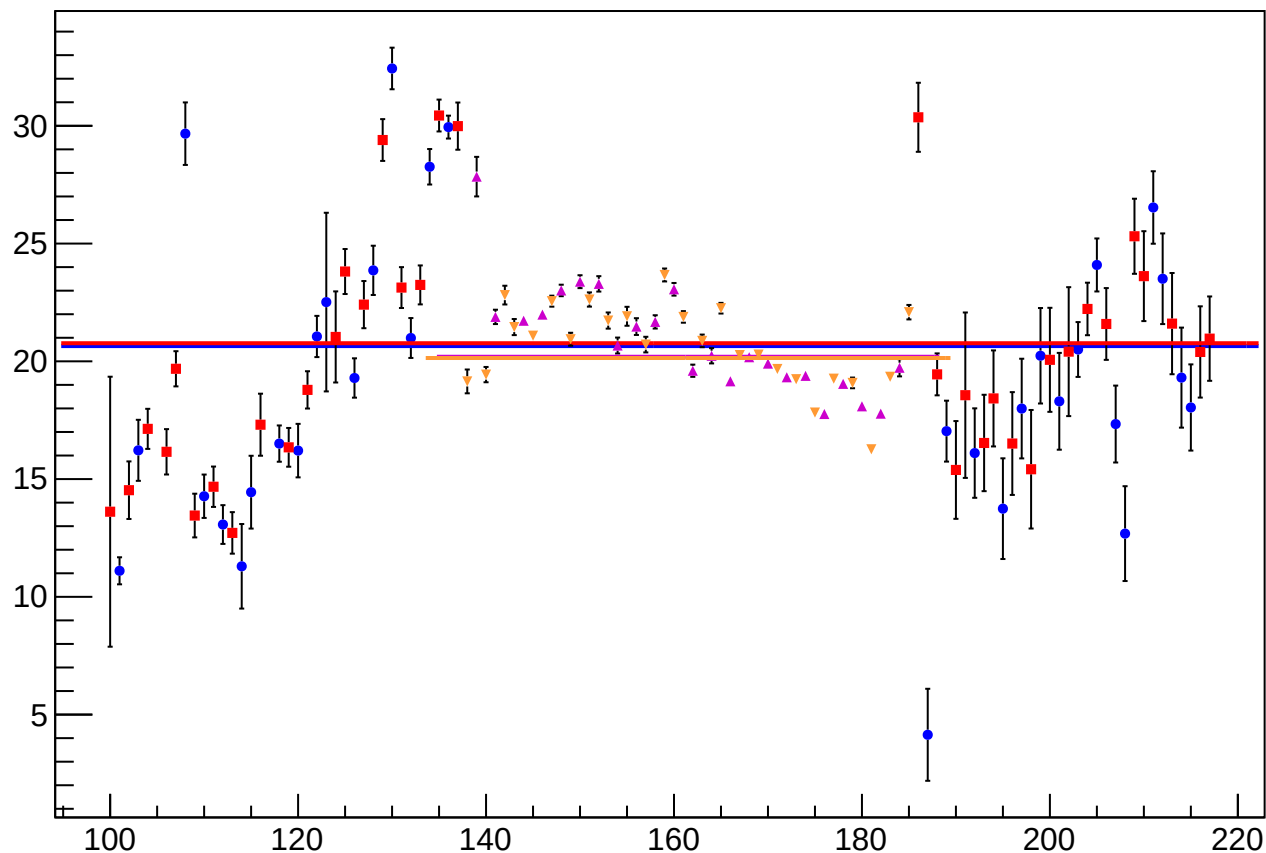


Right In: -2.380 ± 0.195 χ^2/NDF : 3418.1/31
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -4.620 ± 0.179 χ^2/NDF : 5491.9/35
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -3.598 ± 0.132 χ^2/NDF : 8981.8/67
 In: -2.006 ± 0.050 χ^2/NDF : 18804.3/54
 Out: -2.286 ± 0.049 χ^2/NDF : 21982.4/60

All: -2.146 ± 0.035 χ^2/NDF : 40802.6/115

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.647 $\pm$ 0.189 χ^2 /NDF: 1359.6/31

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.769 $\pm$ 0.189 χ^2 /NDF: 800.6/35

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF:1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

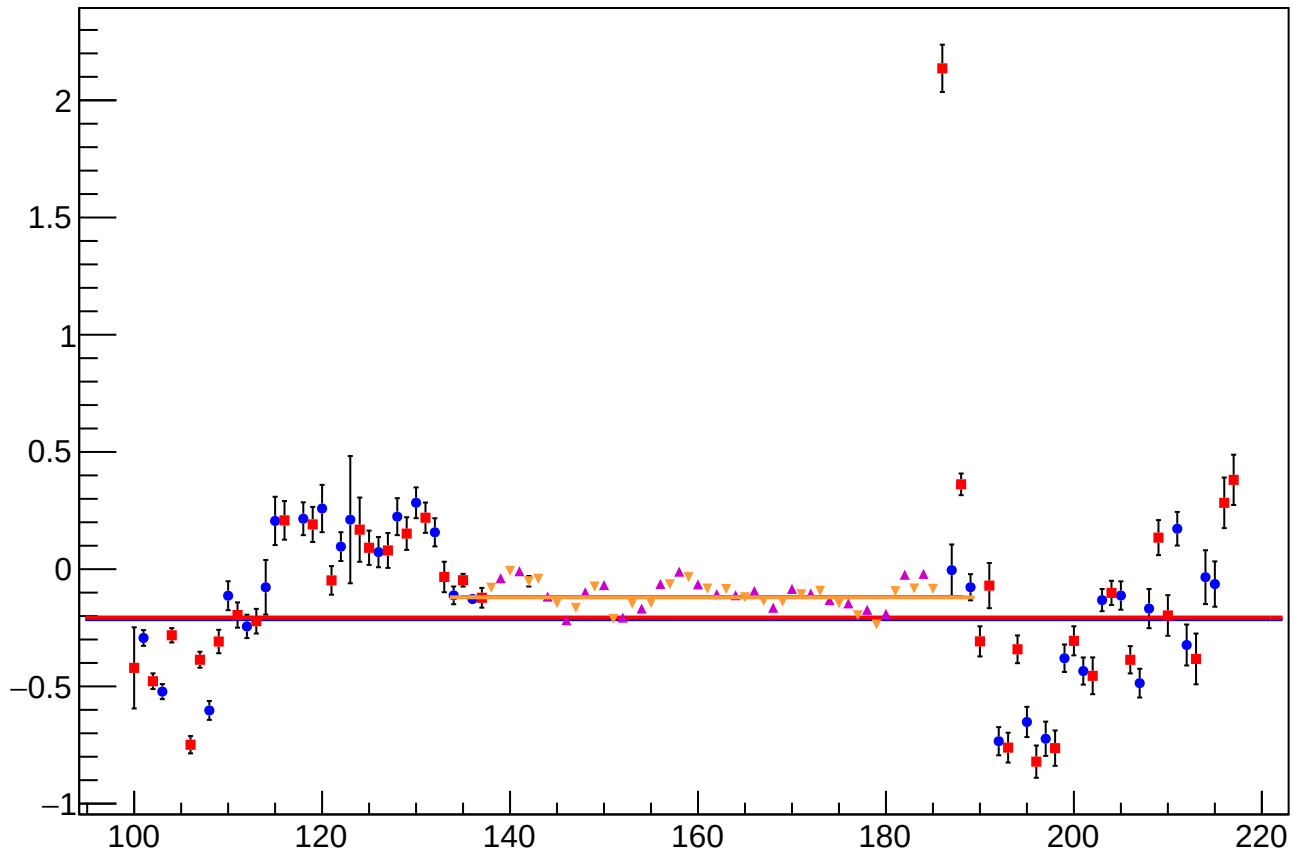
Right: 20.708 $\pm$ 0.134 χ^2 /NDF: 2160.4/67

In: 20.219 $\pm$ 0.045 χ^2 /NDF:2812.3/54

Out: 20.176 $\pm$ 0.045 χ^2 /NDF:2230.1/60

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 5042.9/115

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.213 ± 0.009 χ^2/NDF : 733.9/31

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.206 ± 0.009 χ^2/NDF : 1545.9/35

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

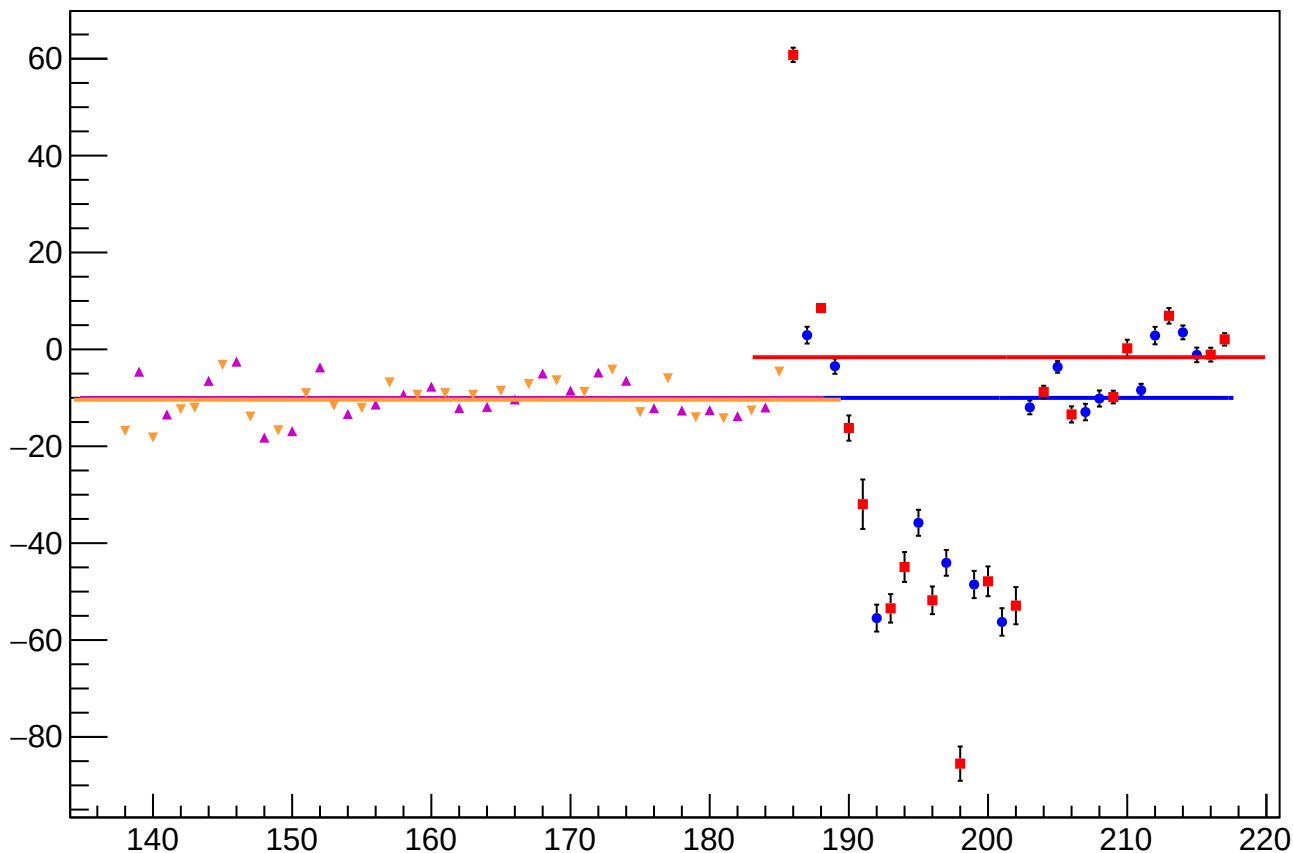
Right: -0.210 ± 0.007 χ^2/NDF : 2280.1/67

In: -0.123 ± 0.002 χ^2/NDF : 1551.4/54

Out: -0.124 ± 0.002 χ^2/NDF : 2159.8/60

All: -0.124 ± 0.001 χ^2/NDF : 3711.3/115

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.011 ± 0.442 $\chi^2/\text{NDF}: 1259.9/14$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -1.621 ± 0.411 $\chi^2/\text{NDF}: 3909.9/16$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

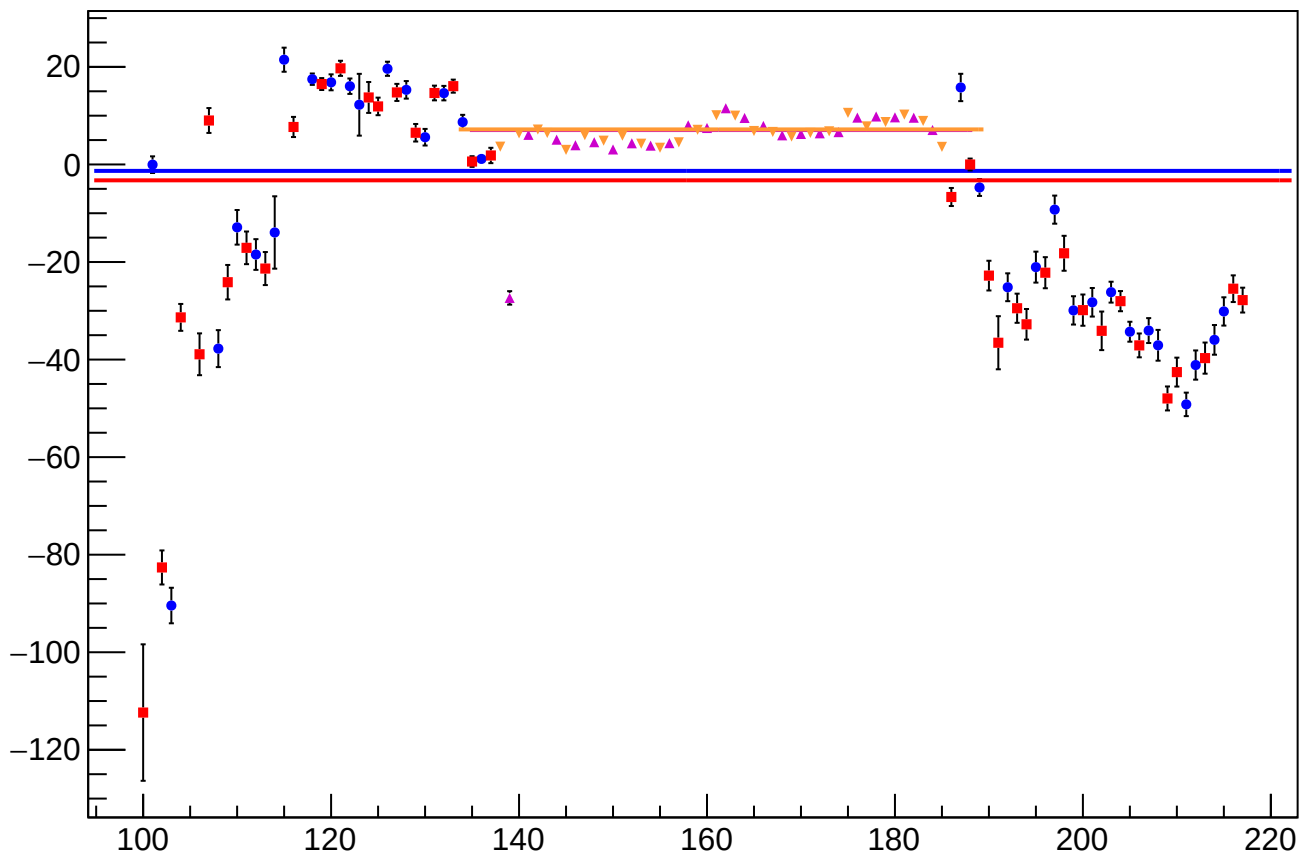
Right: -5.512 ± 0.301 $\chi^2/\text{NDF}: 5363.2/31$

In: -10.035 ± 0.088 $\chi^2/\text{NDF}: 3018.6/37$

Out: -10.007 ± 0.086 $\chi^2/\text{NDF}: 6457.2/41$

All: -10.021 ± 0.061 $\chi^2/\text{NDF}: 9475.8/79$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.318 ± 0.347 χ^2/NDF : 3635.6/31

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -3.255 ± 0.353 χ^2/NDF : 3539.8/35

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

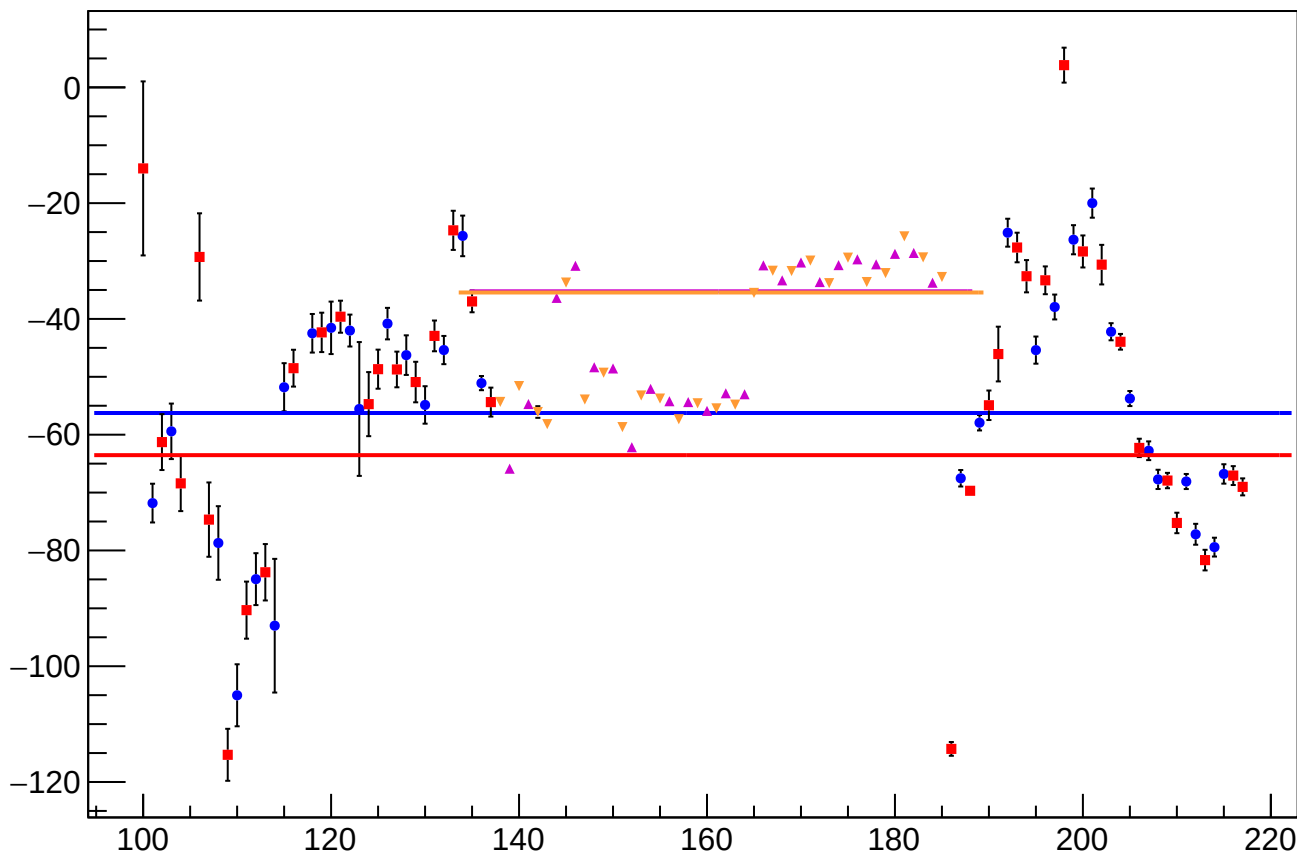
Right: -2.270 ± 0.248 χ^2/NDF : 7190.8/67

In: 6.687 ± 0.073 χ^2/NDF : 5727.1/54

Out: 6.751 ± 0.072 χ^2/NDF : 5294.4/60

All: 6.719 ± 0.051 χ^2/NDF : 11021.9/115

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.253 ± 0.373 χ^2/NDF : 1670.0/31

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -63.535 ± 0.347 χ^2/NDF : 4360.6/35

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

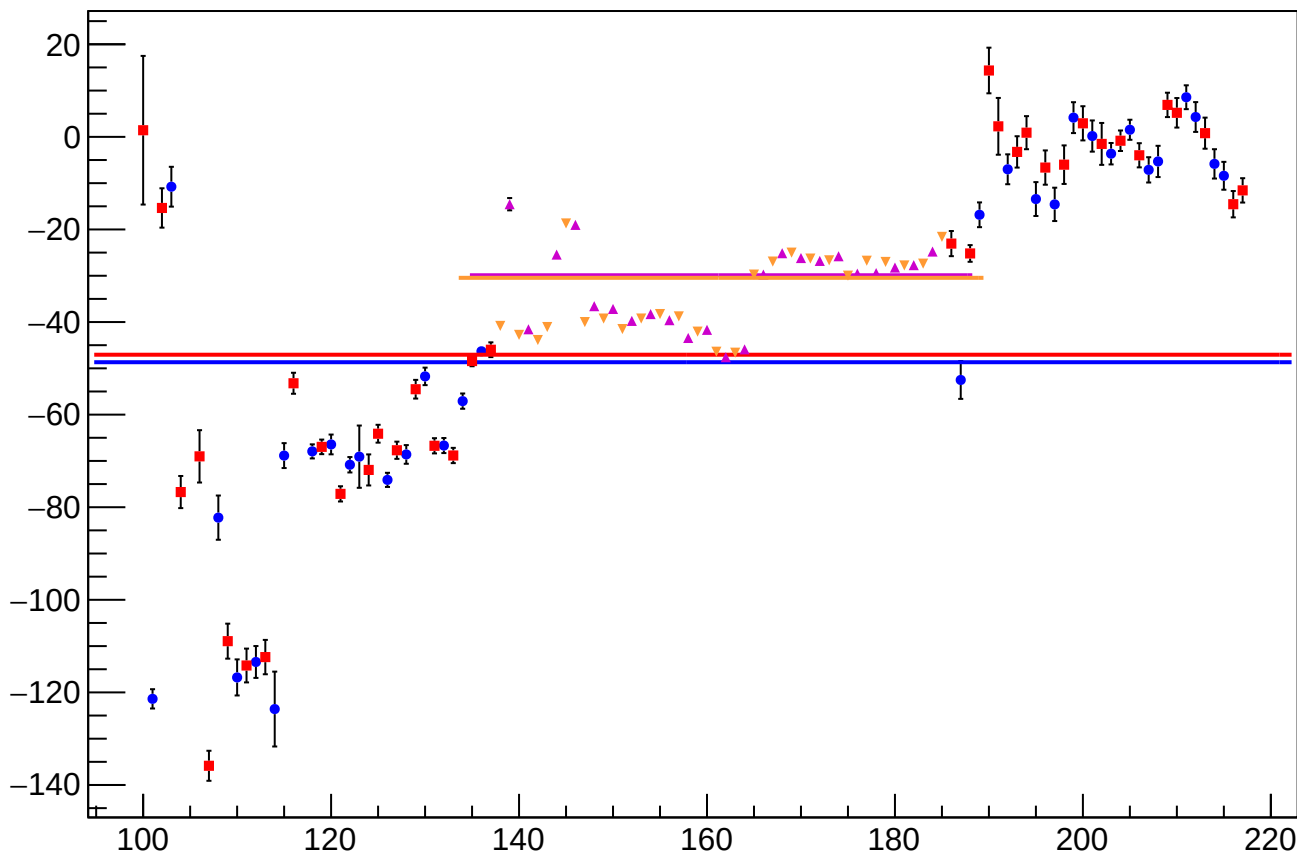
Right: -60.161 ± 0.254 χ^2/NDF : 6235.0/67

In: -36.387 ± 0.088 χ^2/NDF : 16271.8/54

Out: -37.172 ± 0.086 χ^2/NDF : 23305.9/60

All: -36.786 ± 0.061 χ^2/NDF : 39618.4/115

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -48.677 ± 0.388 $\chi^2/\text{NDF}: 6486.3/31$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -47.058 ± 0.403 $\chi^2/\text{NDF}: 6114.0/35$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

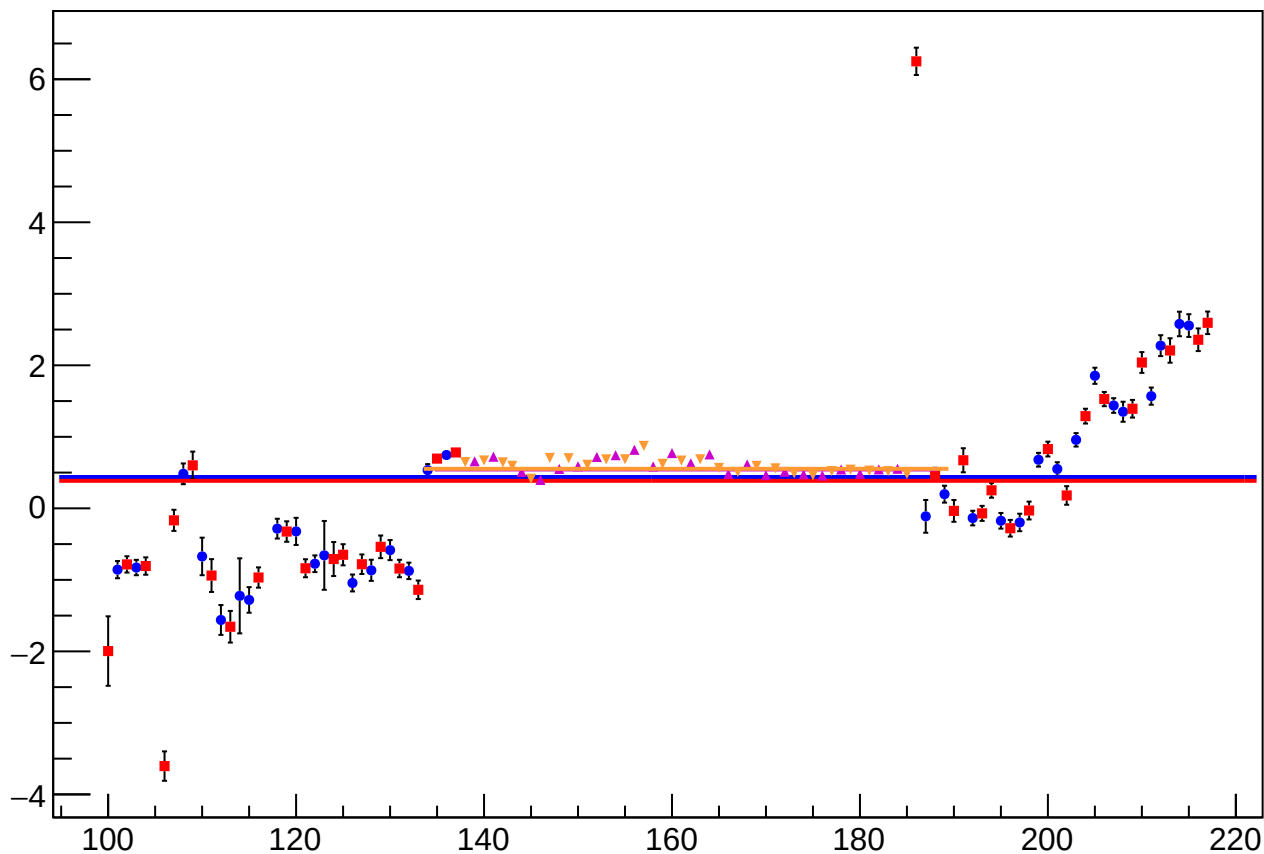
Right: -47.900 ± 0.279 $\chi^2/\text{NDF}: 12608.7/67$

In: -30.708 ± 0.081 $\chi^2/\text{NDF}: 15849.2/54$

Out: -31.100 ± 0.080 $\chi^2/\text{NDF}: 15912.0/60$

All: -30.906 ± 0.057 $\chi^2/\text{NDF}: 31773.1/115$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.438 $\pm$ 0.019 χ^2 /NDF: 2140.9/31

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.385 $\pm$ 0.020 χ^2 /NDF: 3351.1/35

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF: 655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

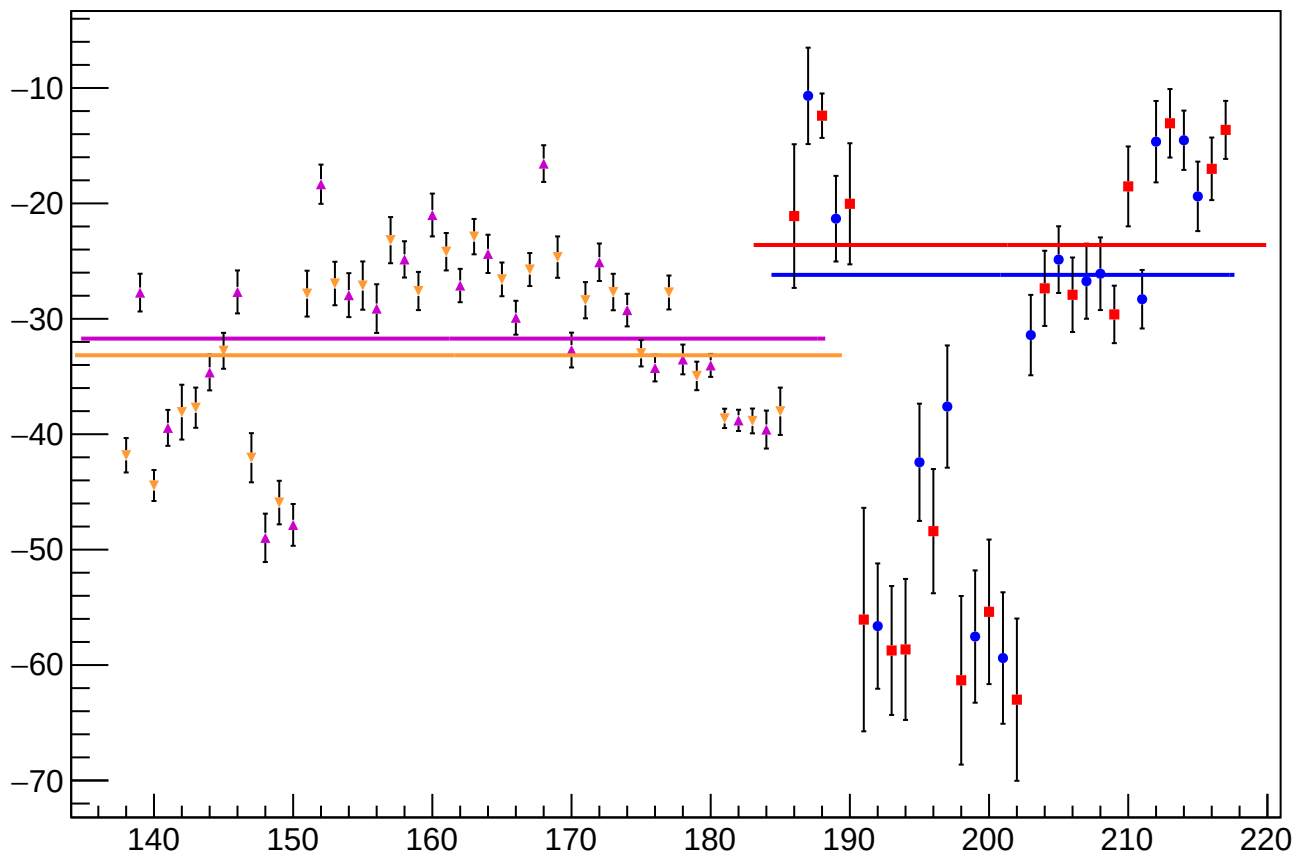
Right: 0.413 $\pm$ 0.014 χ^2 /NDF: 5495.9/67

In: 0.540 $\pm$ 0.004 χ^2 /NDF: 2826.9/54

Out: 0.547 $\pm$ 0.004 χ^2 /NDF: 3963.2/60

All: 0.543 $\pm$ 0.003 χ^2 /NDF: 6792.1/115

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.192 ± 0.915 $\chi^2/\text{NDF}: 165.2/14$

Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$

Right Out: -23.604 ± 0.863 $\chi^2/\text{NDF}: 268.7/16$

Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$

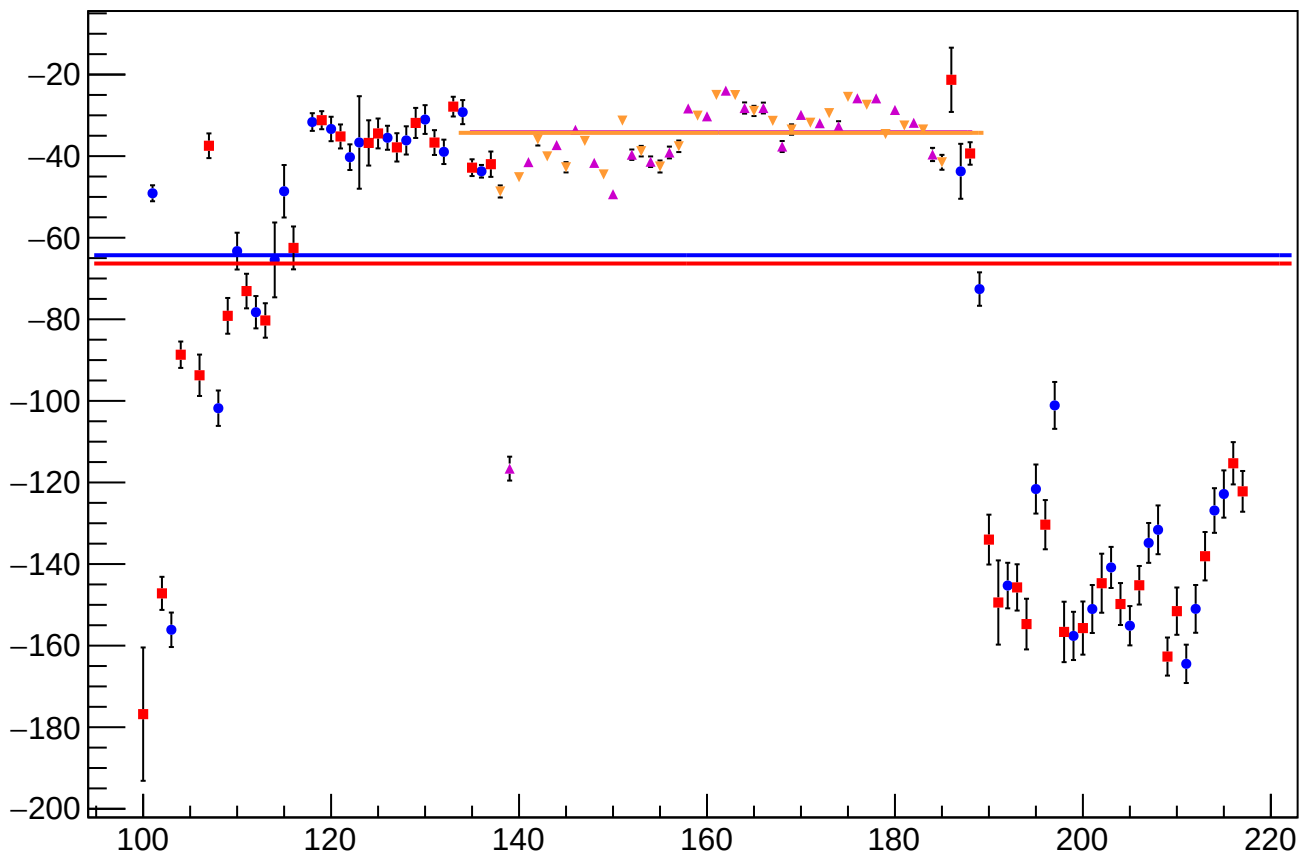
Right: -24.822 ± 0.628 $\chi^2/\text{NDF}: 438.2/31$

In: -31.149 ± 0.293 $\chi^2/\text{NDF}: 740.2/37$

Out: -32.125 ± 0.284 $\chi^2/\text{NDF}: 878.1/41$

All: -31.653 ± 0.204 $\chi^2/\text{NDF}: 1624.1/79$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -64.293 ± 0.646 χ^2/NDF : 4313.8/31

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -66.327 ± 0.659 χ^2/NDF : 4622.2/35

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

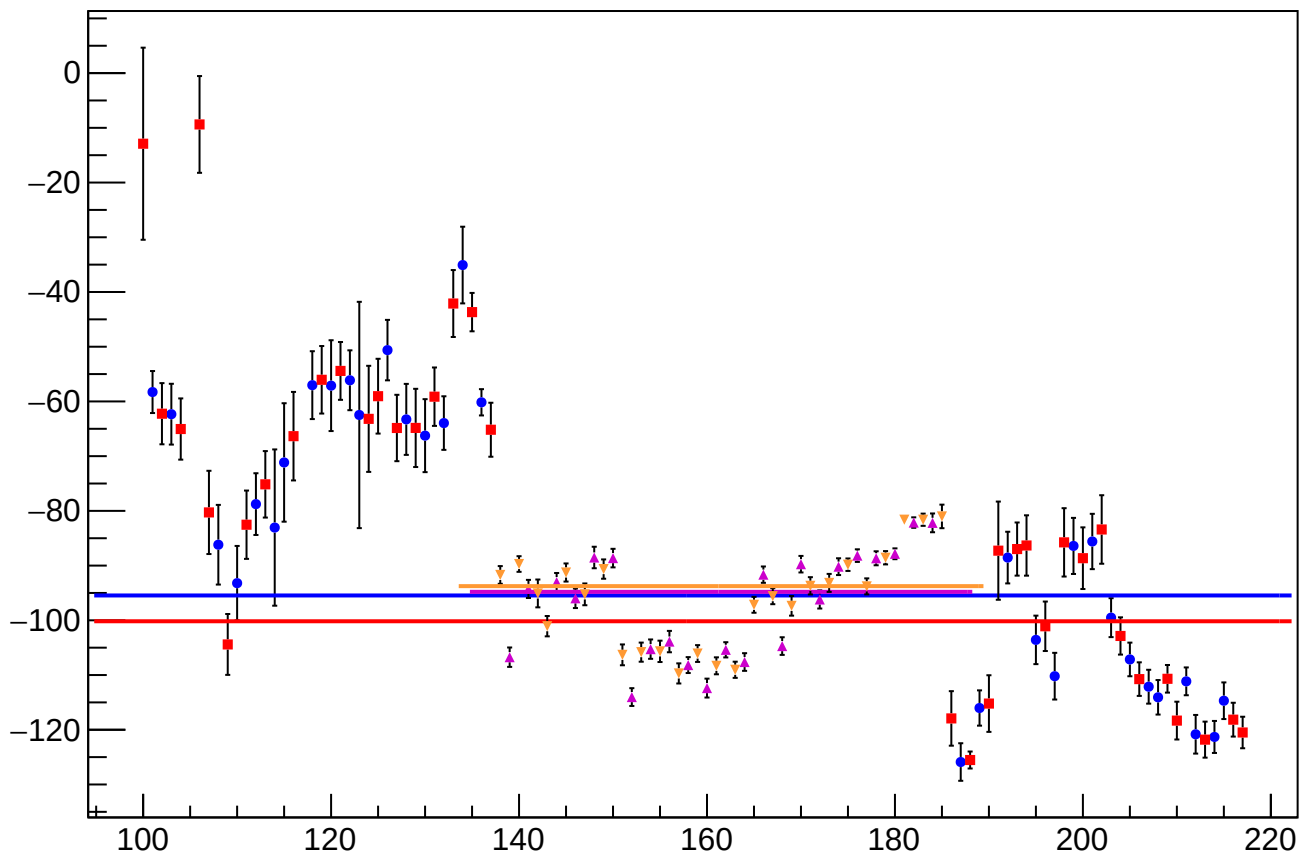
Right: -65.290 ± 0.461 χ^2/NDF : 8940.8/67

In: -38.090 ± 0.234 χ^2/NDF : 7656.8/54

Out: -38.082 ± 0.227 χ^2/NDF : 7402.8/60

All: -38.086 ± 0.163 χ^2/NDF : 15059.7/115

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -95.459 ± 0.742 $\chi^2/\text{NDF}: 1125.2/31$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -100.174 ± 0.710 $\chi^2/\text{NDF}: 1465.2/35$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

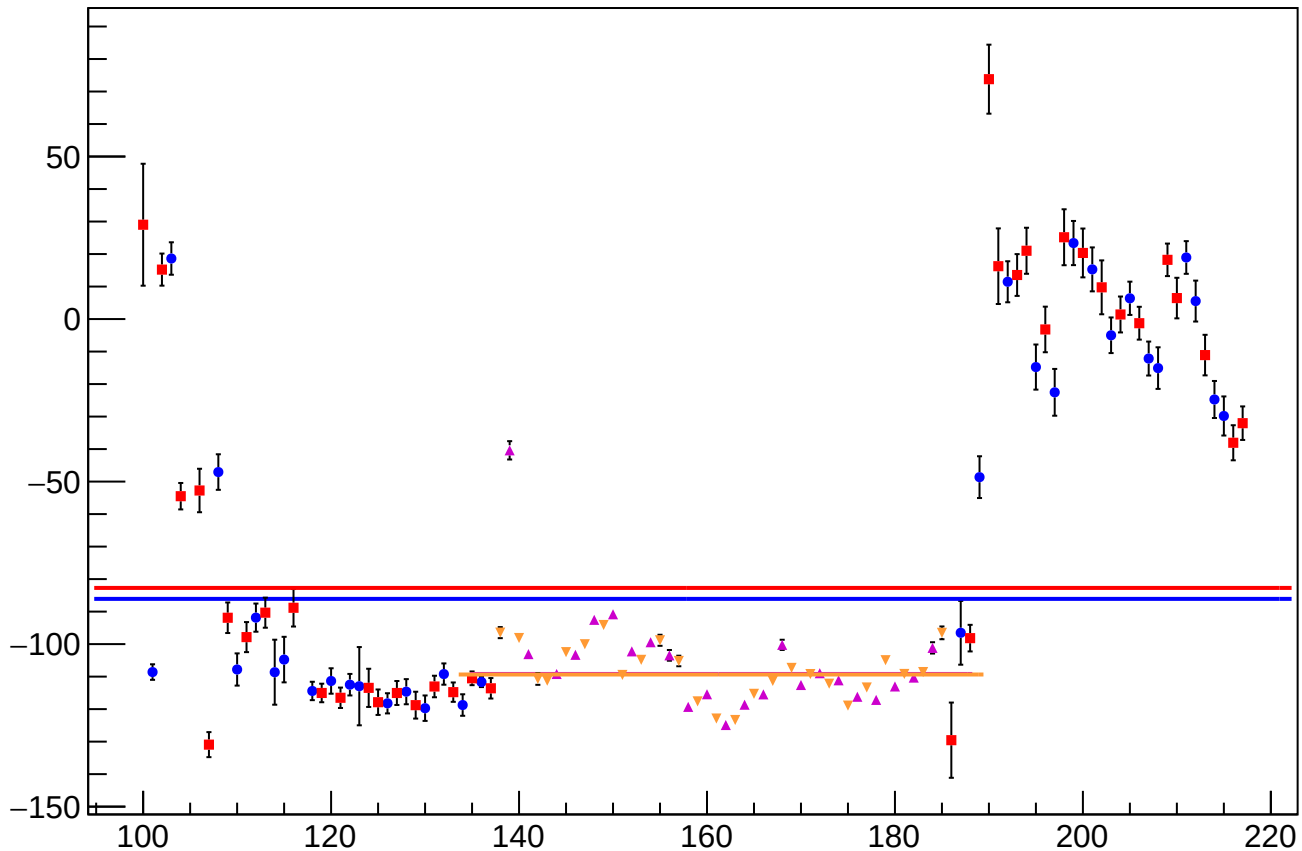
Right: -97.922 ± 0.513 $\chi^2/\text{NDF}: 2611.5/67$

In: -94.894 ± 0.285 $\chi^2/\text{NDF}: 2100.6/54$

Out: -94.737 ± 0.278 $\chi^2/\text{NDF}: 2417.6/60$

All: -94.813 ± 0.199 $\chi^2/\text{NDF}: 4518.4/115$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.085 ± 0.727 χ^2/NDF : 4137.8/31

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -82.713 ± 0.751 χ^2/NDF : 4405.7/35

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

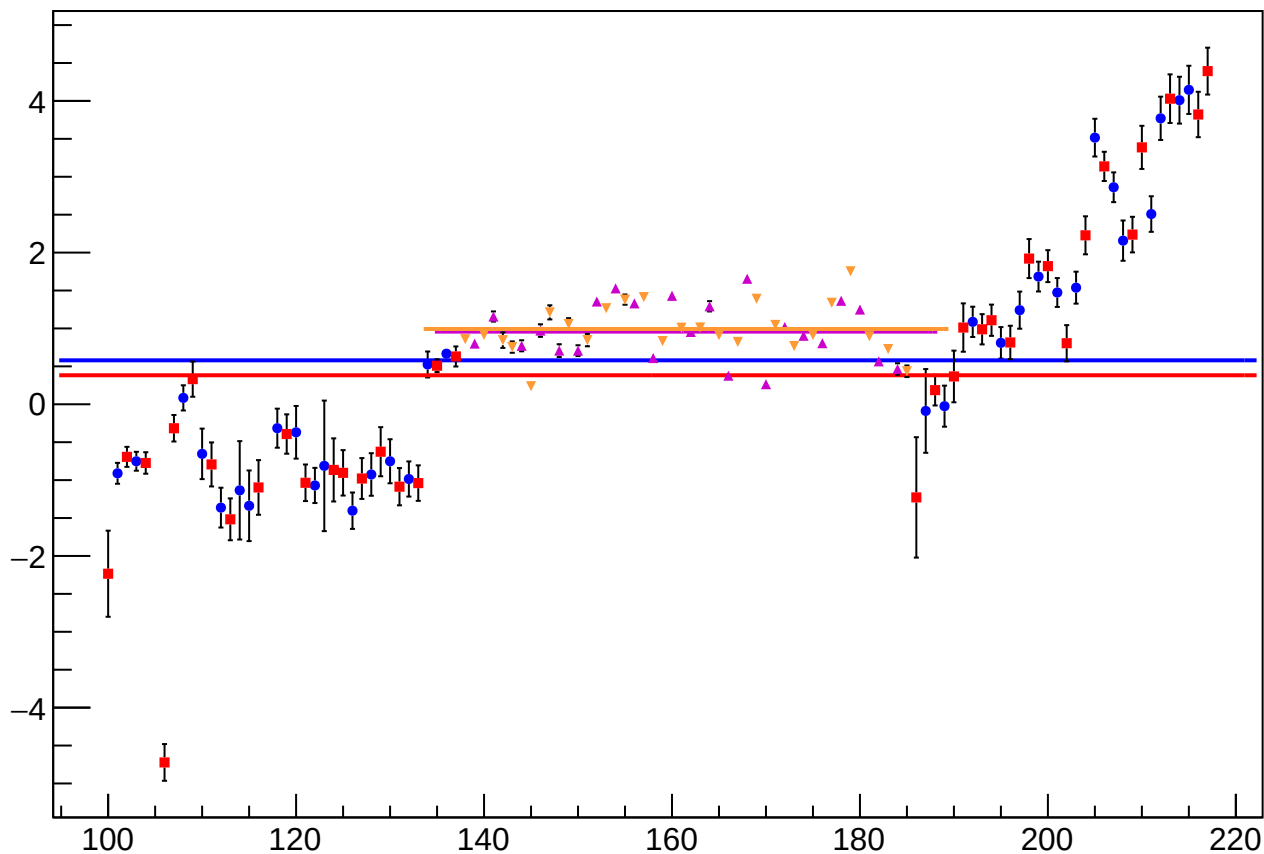
Right: -84.454 ± 0.522 χ^2/NDF : 8553.9/67

In: -106.201 ± 0.261 χ^2/NDF : 6518.3/54

Out: -106.278 ± 0.255 χ^2/NDF : 6345.4/60

All: -106.240 ± 0.183 χ^2/NDF : 12863.8/115

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.579 $\pm$ 0.035 χ^2 /NDF: 1418.2/31

Left Out: 0.993 $\pm$ 0.012 χ^2 /NDF: 638.6/24

Right Out: 0.382 $\pm$ 0.036 χ^2 /NDF: 1861.9/35

Left In: 0.958 $\pm$ 0.013 χ^2 /NDF: 894.5/22

Left: 0.976 $\pm$ 0.009 χ^2 /NDF: 1537.0/47

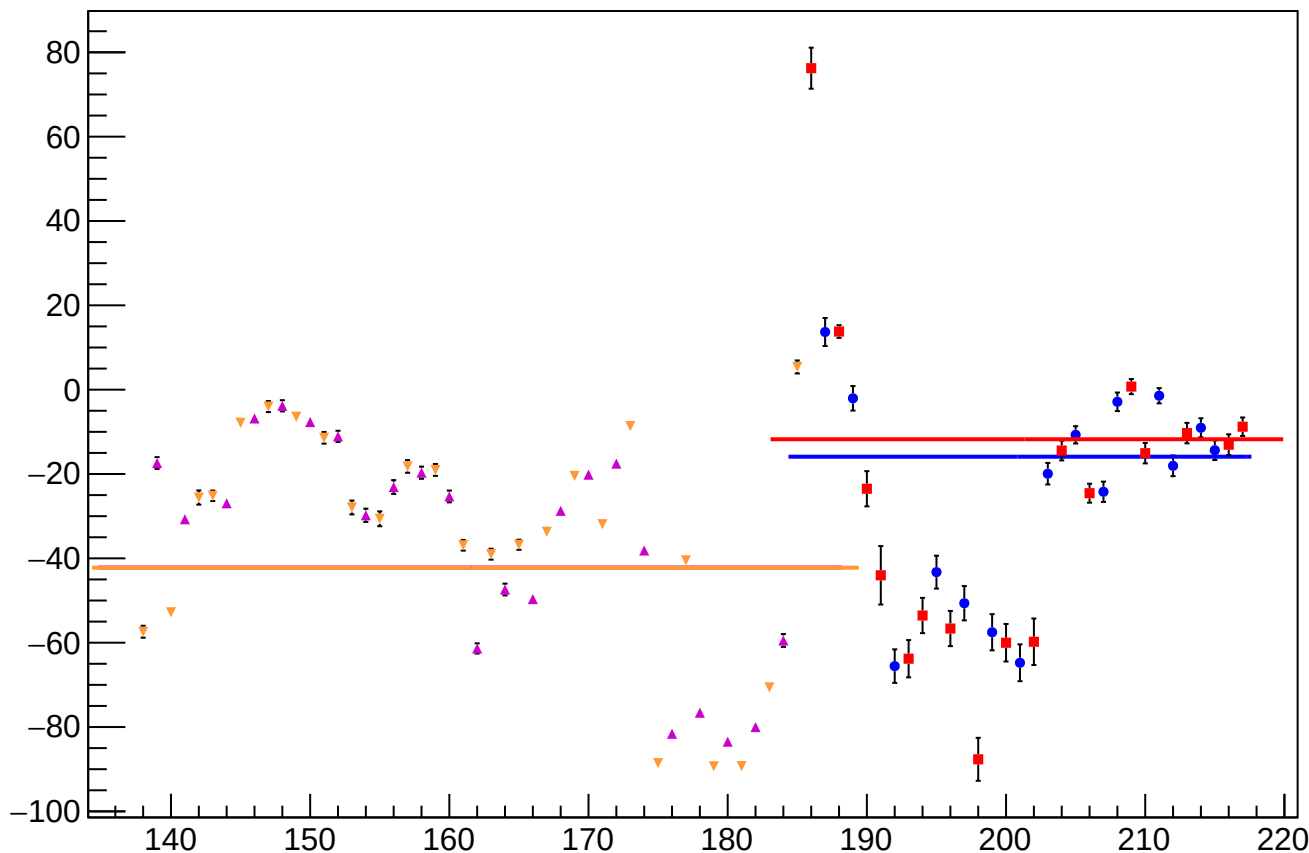
Right: 0.483 $\pm$ 0.025 χ^2 /NDF: 3295.8/67

In: 0.914 $\pm$ 0.012 χ^2 /NDF: 2417.0/54

Out: 0.927 $\pm$ 0.012 χ^2 /NDF: 2762.7/60

All: 0.920 $\pm$ 0.008 χ^2 /NDF: 5180.3/115

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.893 ± 0.686 $\chi^2/\text{NDF}: 729.2/14$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -11.760 ± 0.667 $\chi^2/\text{NDF}: 1499.4/16$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

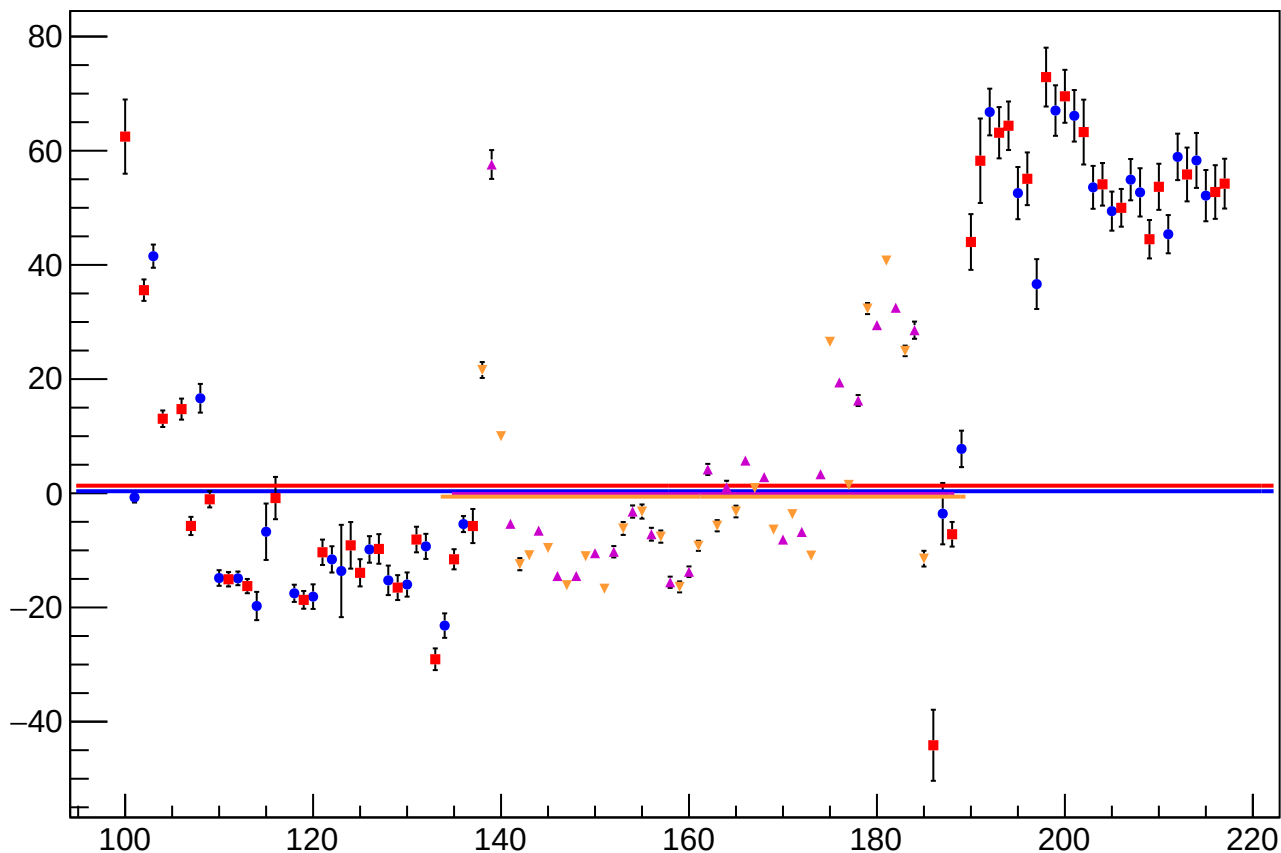
Right: -13.767 ± 0.478 $\chi^2/\text{NDF}: 2247.2/31$

In: -39.580 ± 0.216 $\chi^2/\text{NDF}: 16628.2/37$

Out: -39.172 ± 0.211 $\chi^2/\text{NDF}: 21687.4/41$

All: -39.371 ± 0.151 $\chi^2/\text{NDF}: 38317.5/79$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.360 ± 0.398 $\chi^2/\text{NDF}: 3684.6/31$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 1.331 ± 0.394 $\chi^2/\text{NDF}: 4014.3/35$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

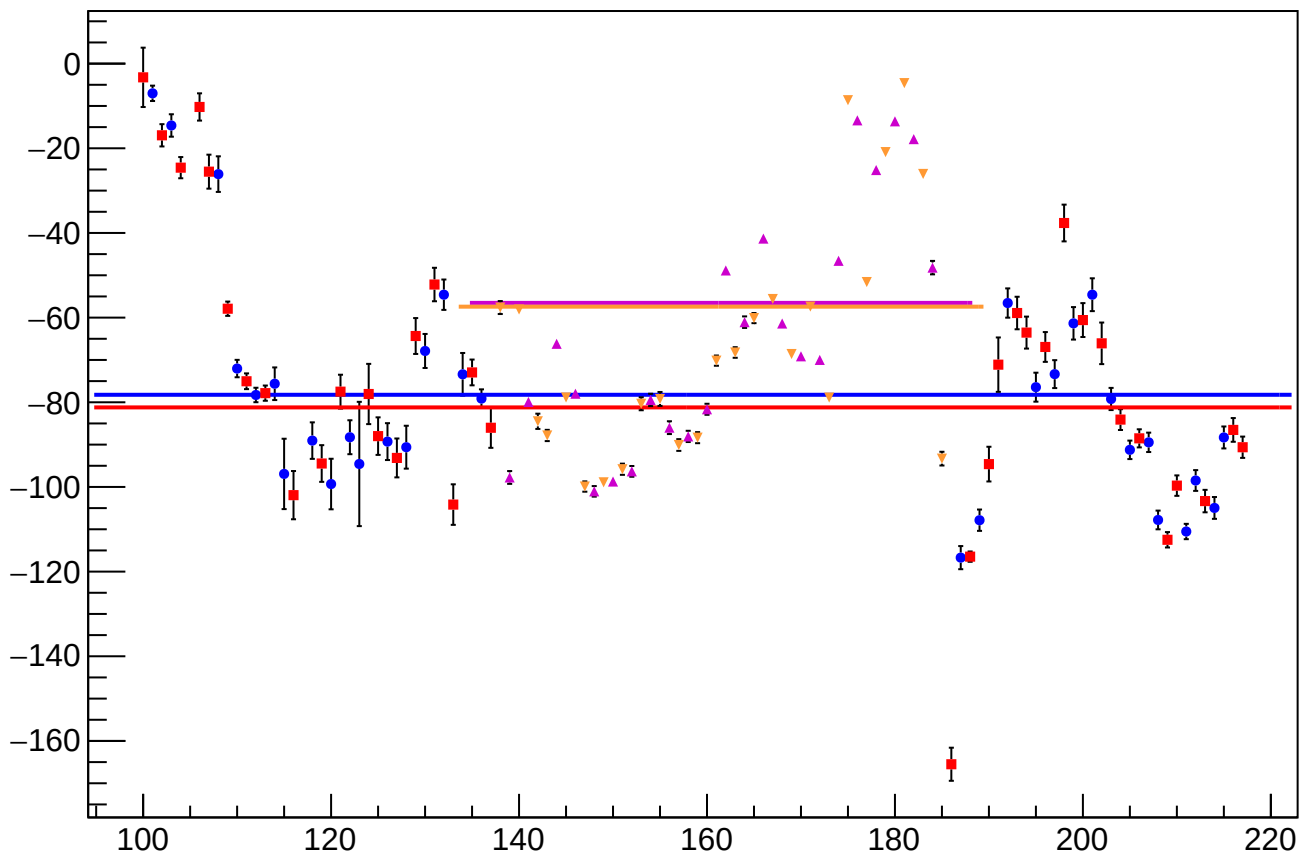
Right: 0.851 ± 0.280 $\chi^2/\text{NDF}: 7701.9/67$

In: -0.057 ± 0.163 $\chi^2/\text{NDF}: 10548.4/54$

Out: -0.275 ± 0.159 $\chi^2/\text{NDF}: 12785.2/60$

All: -0.169 ± 0.114 $\chi^2/\text{NDF}: 23334.4/115$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -78.230 ± 0.500 χ^2/NDF : 3554.1/31

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -81.211 ± 0.472 χ^2/NDF : 4227.8/35

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

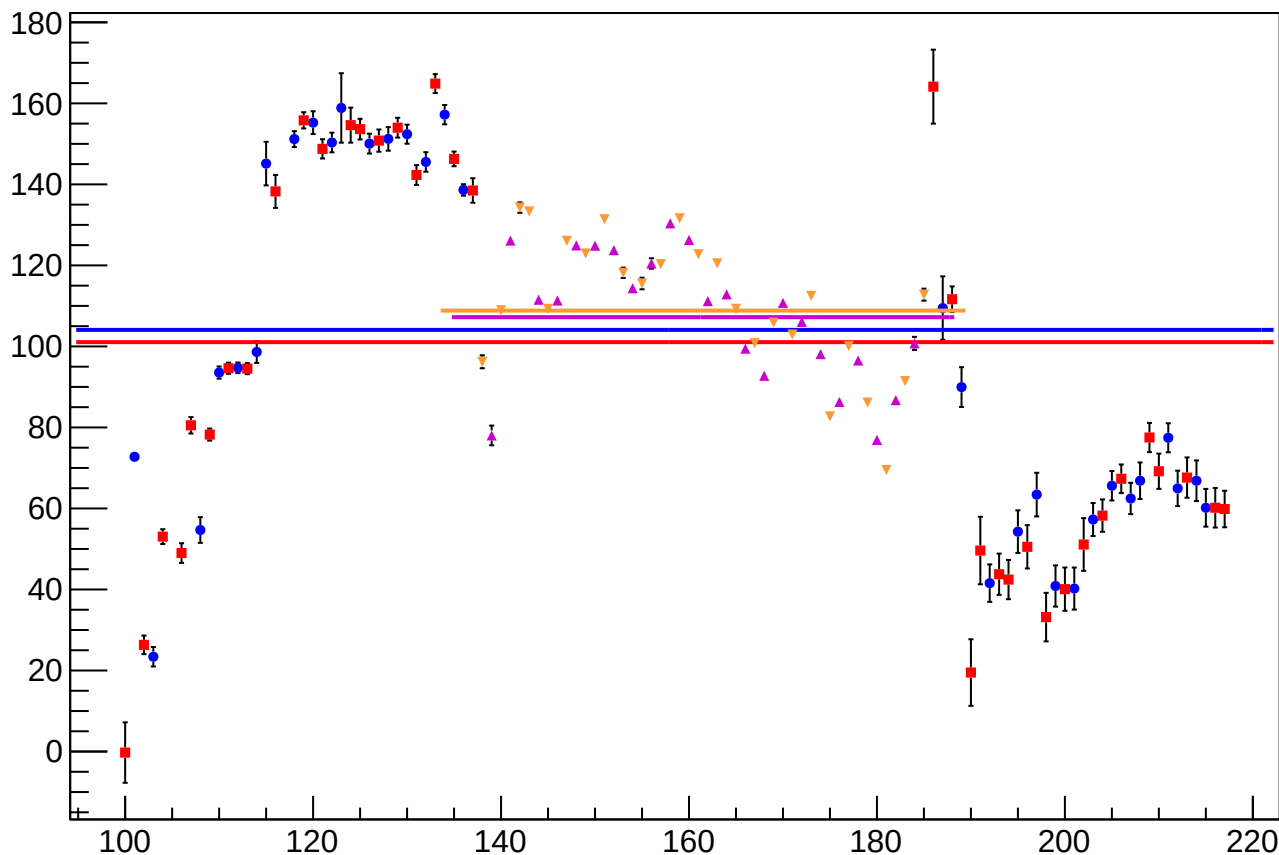
Right: -79.808 ± 0.343 χ^2/NDF : 7800.7/67

In: -60.231 ± 0.207 χ^2/NDF : 21469.8/54

Out: -61.769 ± 0.202 χ^2/NDF : 24912.2/60

All: -61.018 ± 0.144 χ^2/NDF : 46410.4/115

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.084 $\pm$ 0.452 χ^2 /NDF: 7421.9/31

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 101.055 $\pm$ 0.450 χ^2 /NDF: 8577.3/35

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

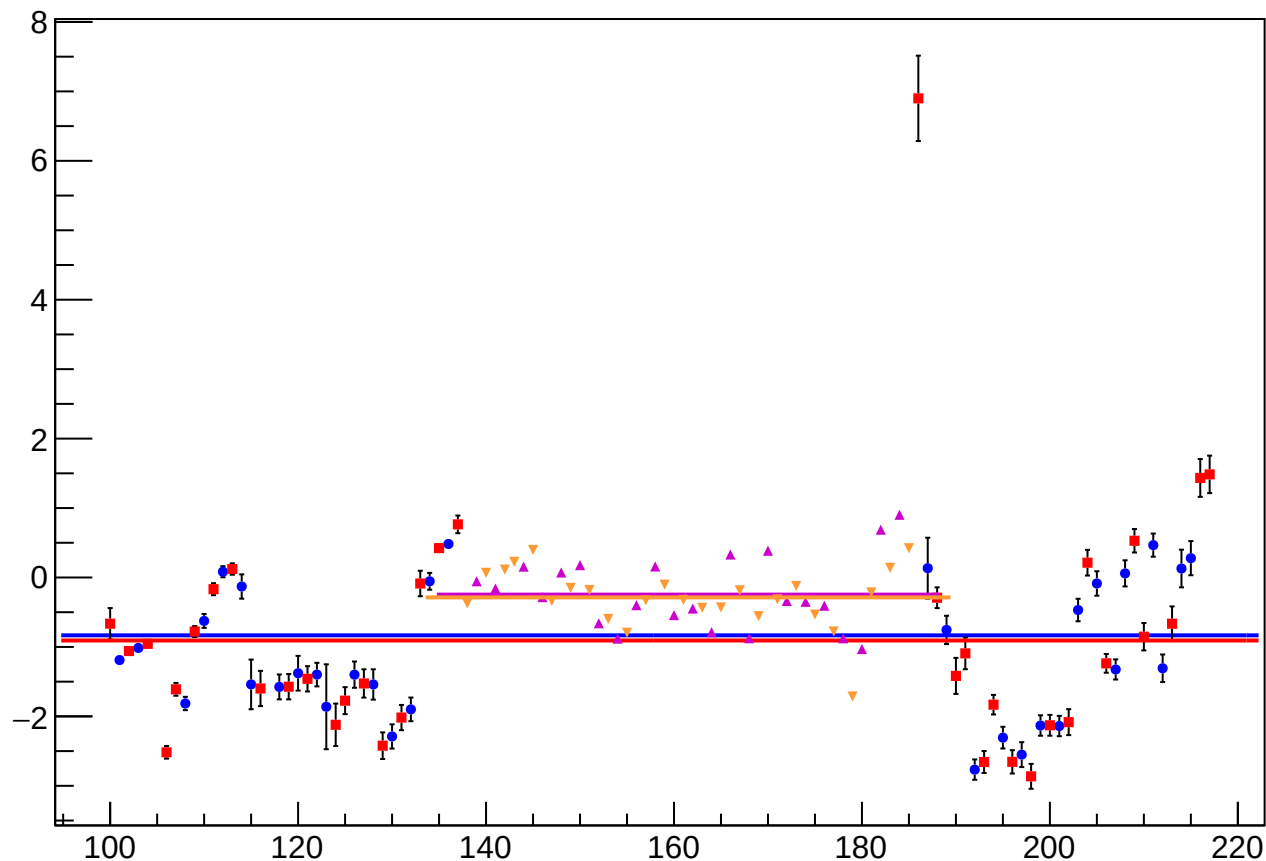
Right: 102.561 $\pm$ 0.319 χ^2 /NDF: 16021.7/67

In: 106.701 $\pm$ 0.185 χ^2 /NDF: 13027.3/54

Out: 107.589 $\pm$ 0.181 χ^2 /NDF: 16229.1/60

All: 107.155 $\pm$ 0.129 χ^2 /NDF: 29268.2/115

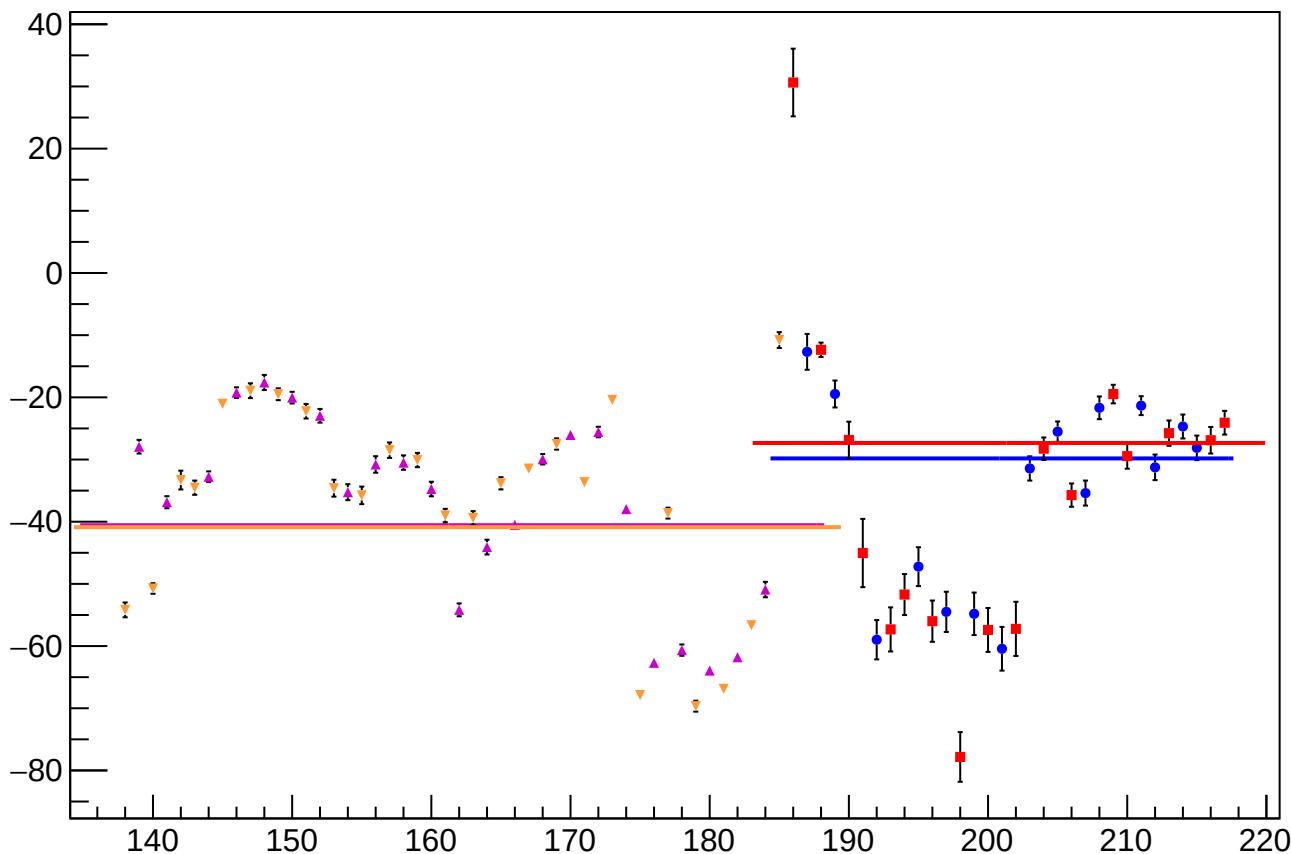
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.833 ± 0.023 χ^2/NDF : 1692.8/31
 Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24
 Right Out: -0.907 ± 0.021 χ^2/NDF : 2266.3/35
 Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47
 Right: -0.872 ± 0.016 χ^2/NDF : 3964.9/67
 In: -0.332 ± 0.009 χ^2/NDF : 5066.7/54
 Out: -0.381 ± 0.008 χ^2/NDF : 5031.4/60
 All: -0.357 ± 0.006 χ^2/NDF : 10115.4/115

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



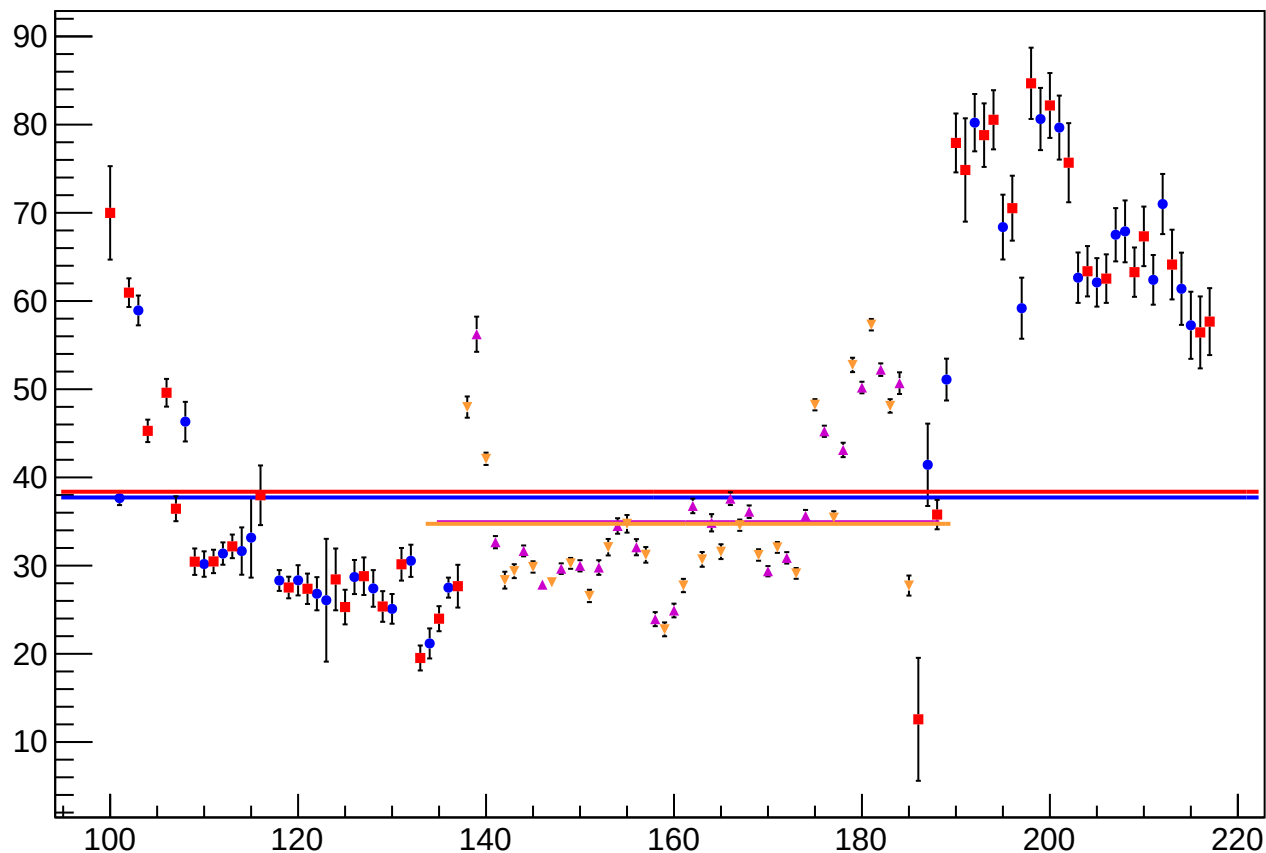
Right In: -29.822 ± 0.561 χ^2/NDF : 436.5/14
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -27.336 ± 0.542 χ^2/NDF : 824.9/16
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -28.535 ± 0.390 χ^2/NDF : 1271.5/31

In: -39.463 ± 0.180 χ^2/NDF : 7720.3/37
 Out: -39.449 ± 0.176 χ^2/NDF : 10507.3/41

All: -39.456 ± 0.126 χ^2/NDF : 18227.6/79

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.728+/-0.343 χ^2 /NDF: 1805.3/31

Left Out: 34.741+/-0.147 χ^2 /NDF:3693.2/24

Right Out: 38.378+/-0.342 χ^2 /NDF: 2255.6/35

Left In: 34.922+/-0.152 χ^2 /NDF:2672.9/22

Left: 34.829+/-0.106 χ^2 /NDF: 6366.8/47

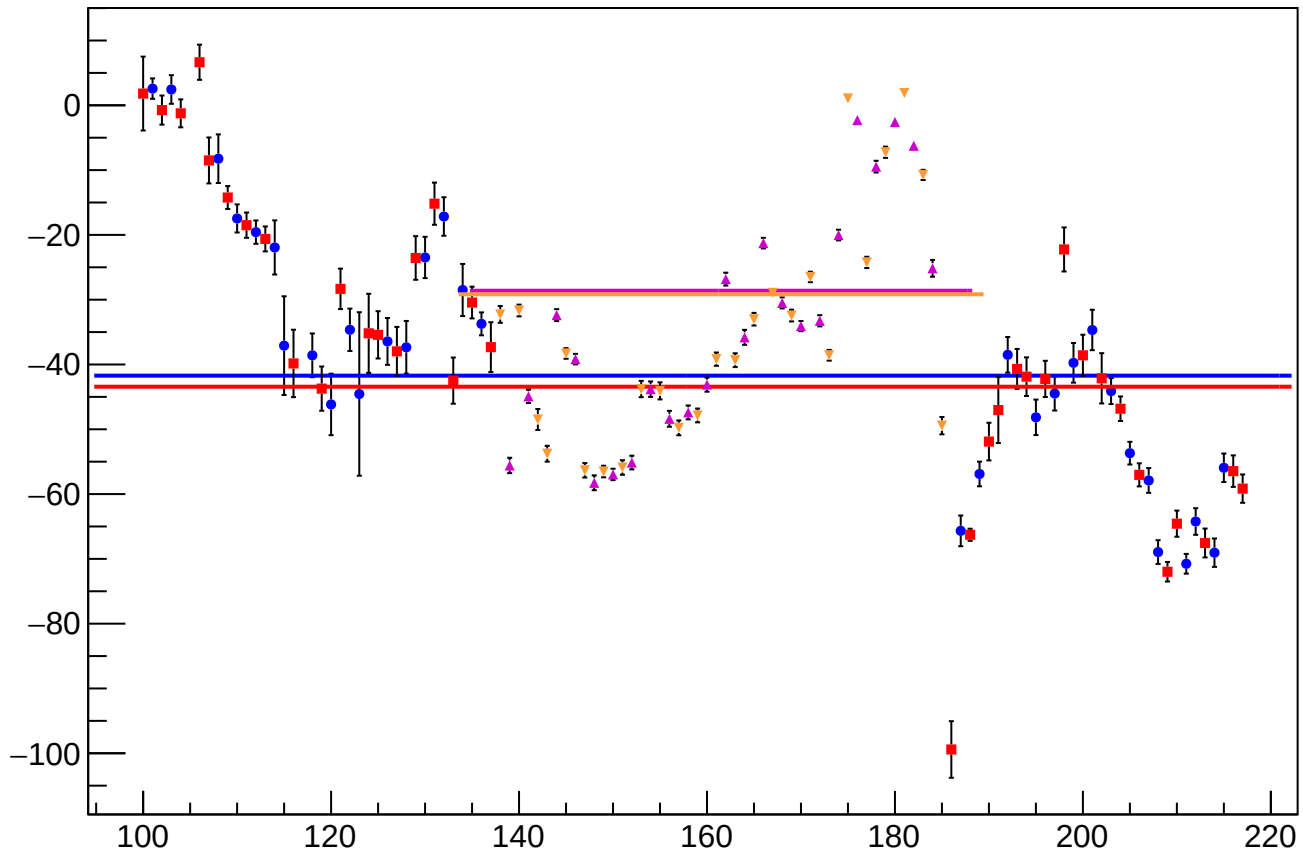
Right: 38.054+/-0.242 χ^2 /NDF: 4062.7/67

In: 35.380+/-0.139 χ^2 /NDF:4534.1/54

Out: 35.310+/-0.135 χ^2 /NDF:6044.0/60

All: 35.344+/-0.097 χ^2 /NDF: 10578.3/115

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.724 ± 0.425 χ^2/NDF : 2912.3/31

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -43.430 ± 0.401 χ^2/NDF : 3535.0/35

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

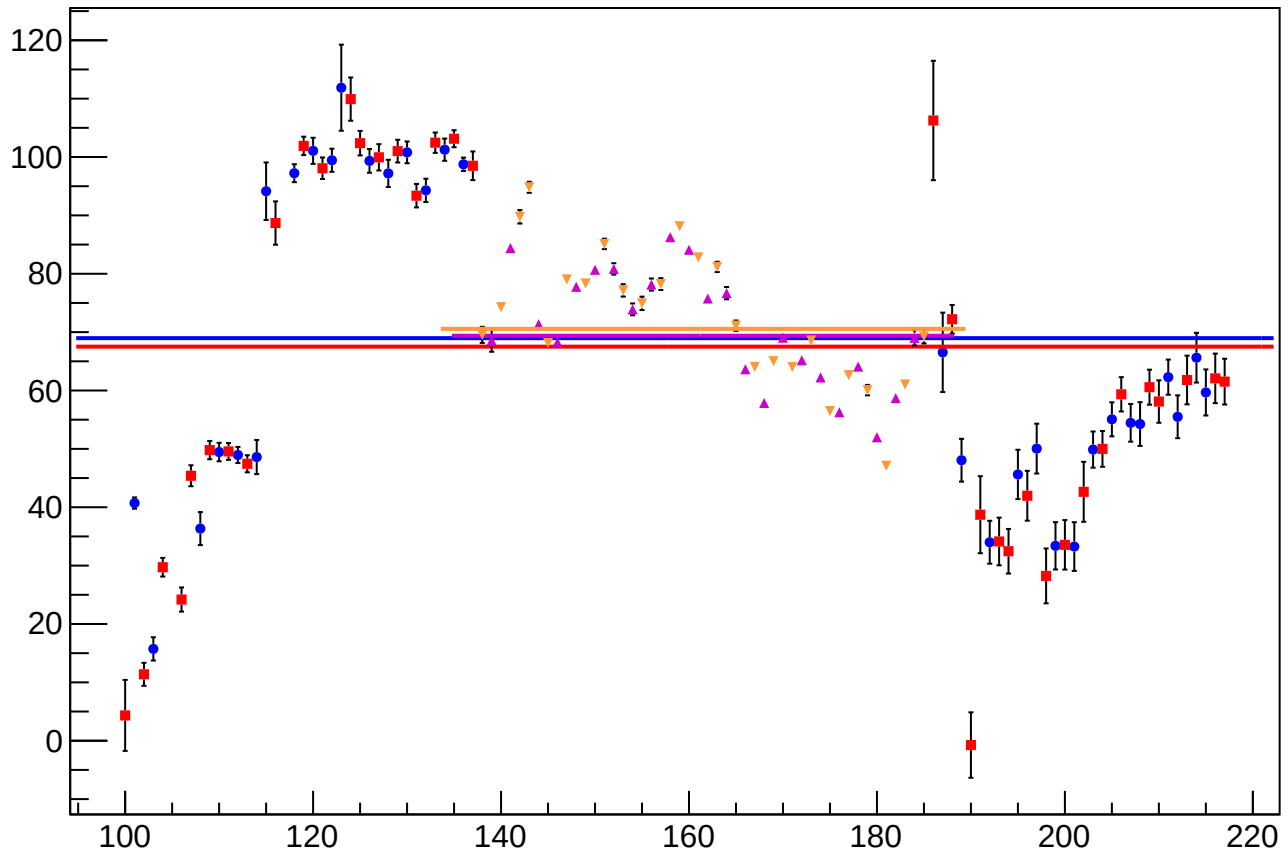
Right: -42.626 ± 0.292 χ^2/NDF : 6455.8/67

In: -30.798 ± 0.173 χ^2/NDF : 12746.9/54

Out: -31.712 ± 0.169 χ^2/NDF : 14700.7/60

All: -31.265 ± 0.121 χ^2/NDF : 27461.9/115

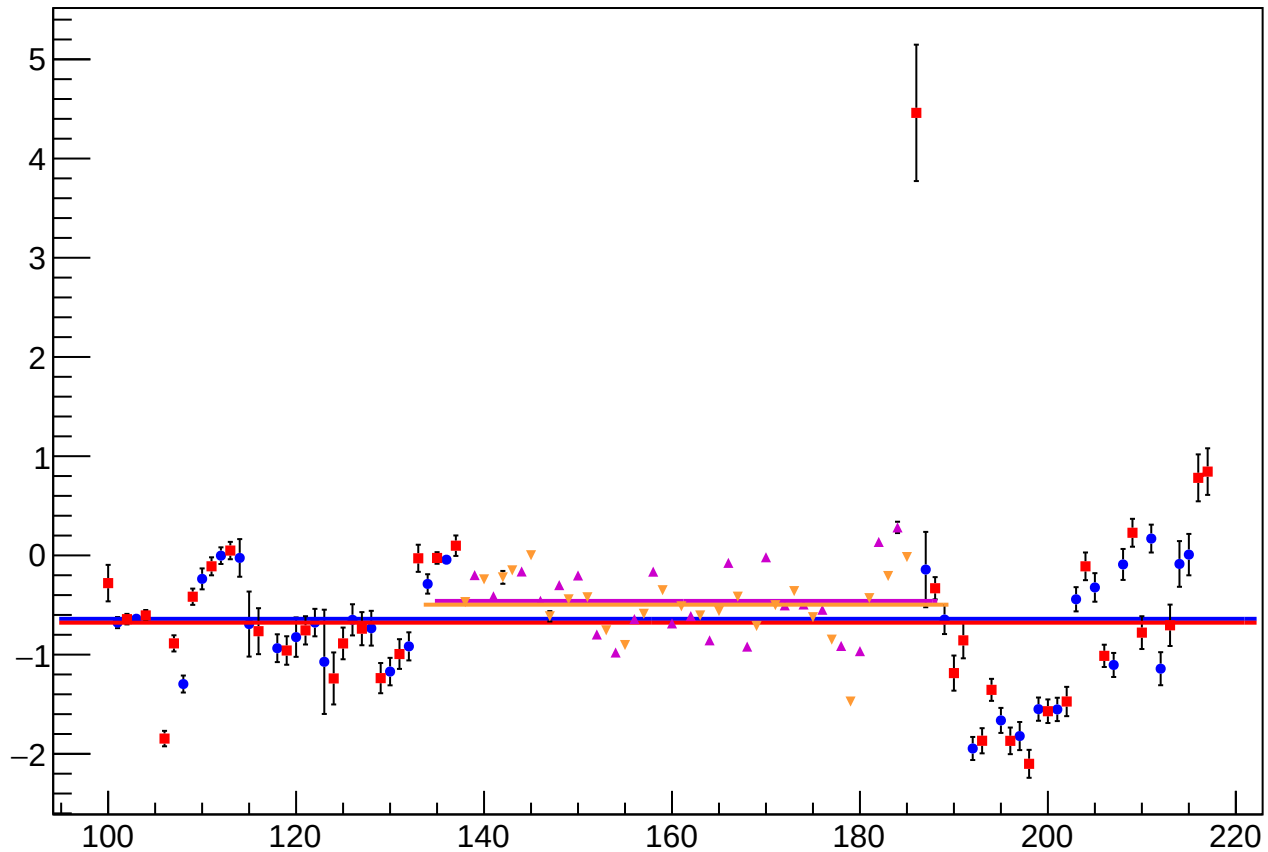
reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.970 ± 0.391 χ^2/NDF : 5185.4/31
 Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24
 Right Out: 67.516 ± 0.394 χ^2/NDF : 6139.3/35
 Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47
 Right: 68.247 ± 0.278 χ^2/NDF : 11331.5/67
 In: 69.321 ± 0.156 χ^2/NDF : 8508.2/54
 Out: 70.101 ± 0.153 χ^2/NDF : 10779.3/60
 All: 69.719 ± 0.109 χ^2/NDF : 19300.2/115

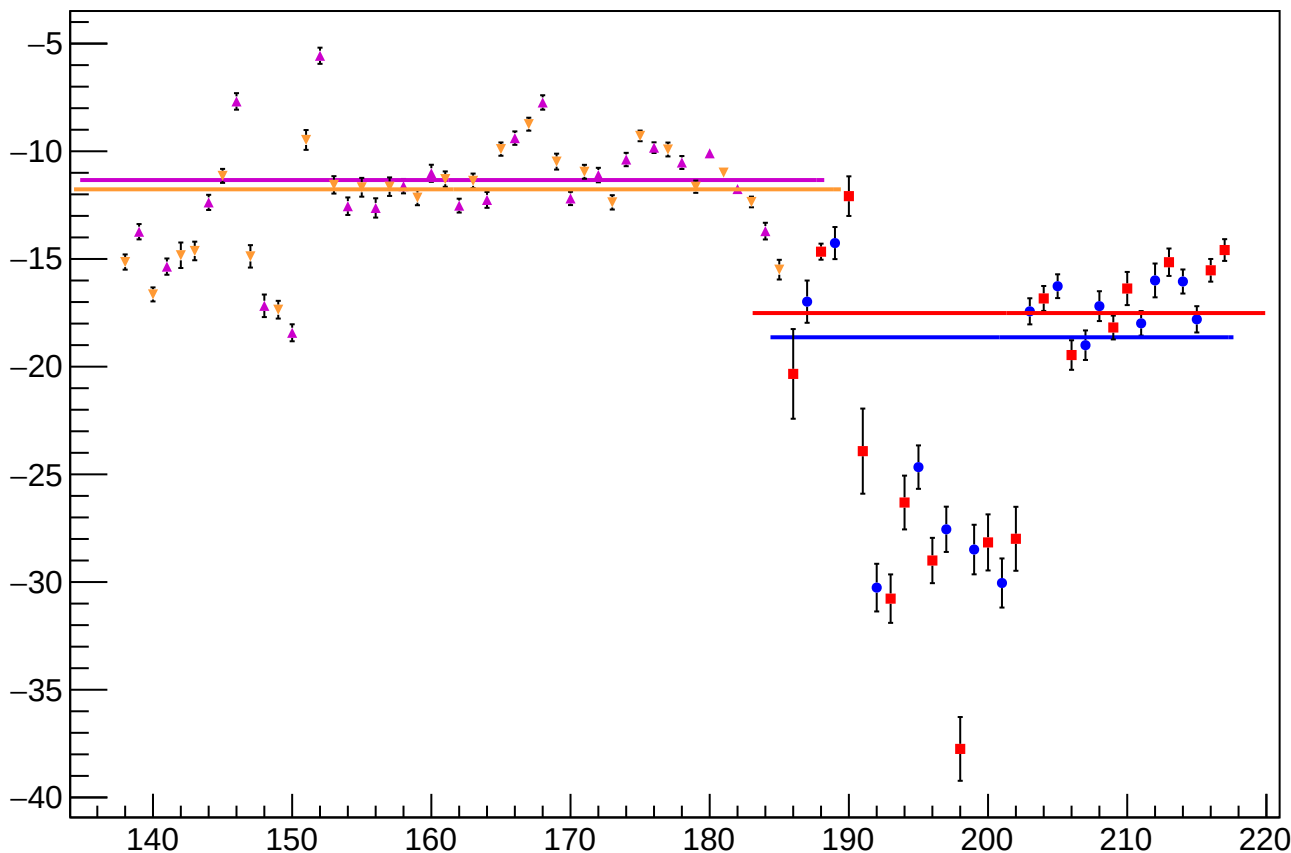
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.639 ± 0.019 χ^2/NDF : 818.1/31
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.678 ± 0.018 χ^2/NDF : 1203.0/35
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.659 ± 0.013 χ^2/NDF : 2023.2/67
 In: -0.484 ± 0.007 χ^2/NDF : 2853.1/54
 Out: -0.523 ± 0.007 χ^2/NDF : 2735.5/60
 All: -0.504 ± 0.005 χ^2/NDF : 5603.7/115

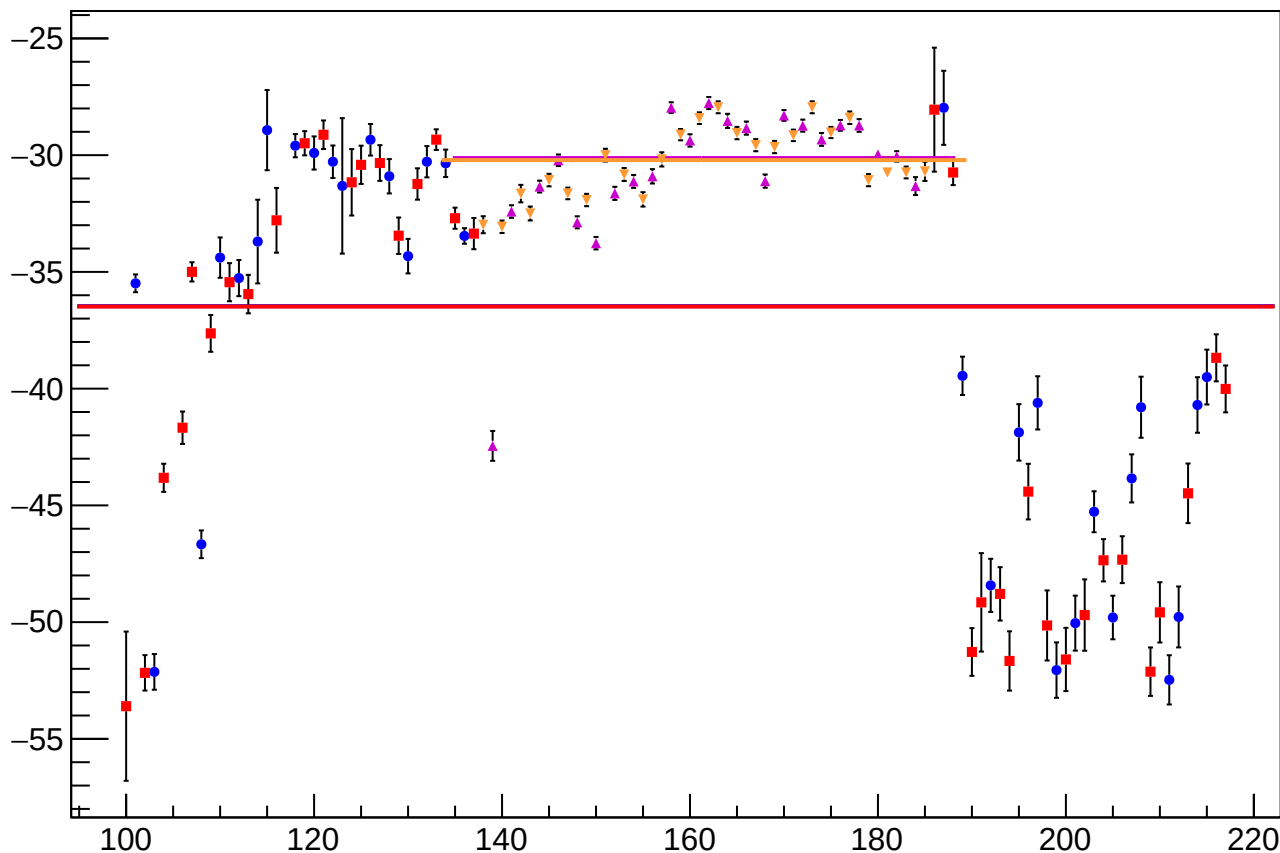
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.636 ± 0.189 χ^2/NDF : 491.7/14
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -17.511 ± 0.175 χ^2/NDF : 791.7/16
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -18.028 ± 0.128 χ^2/NDF : 1302.5/31
 In: -12.170 ± 0.064 χ^2/NDF : 3076.9/37
 Out: -12.497 ± 0.062 χ^2/NDF : 2756.5/41
 All: -12.338 ± 0.045 χ^2/NDF : 5846.8/79

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.468 ± 0.134 $\chi^2/\text{NDF}: 2775.0/31$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.482 ± 0.131 $\chi^2/\text{NDF}: 3174.4/35$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

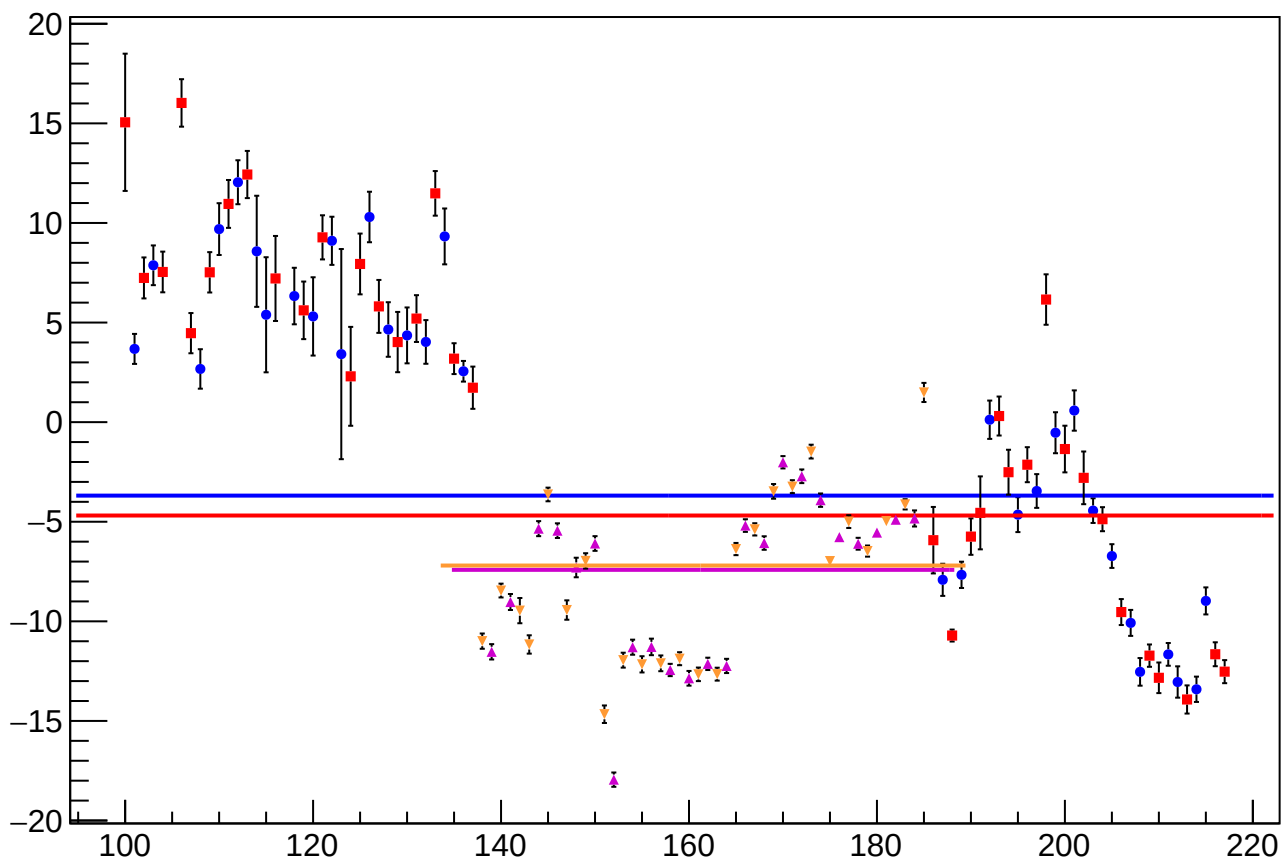
Right: -36.475 ± 0.094 $\chi^2/\text{NDF}: 5949.4/67$

In: -31.054 ± 0.051 $\chi^2/\text{NDF}: 5915.9/54$

Out: -31.121 ± 0.050 $\chi^2/\text{NDF}: 5873.1/60$

All: -31.088 ± 0.036 $\chi^2/\text{NDF}: 11789.8/115$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.688 ± 0.154 χ^2/NDF : 2291.9/31

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -4.688 ± 0.143 χ^2/NDF : 3391.0/35

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

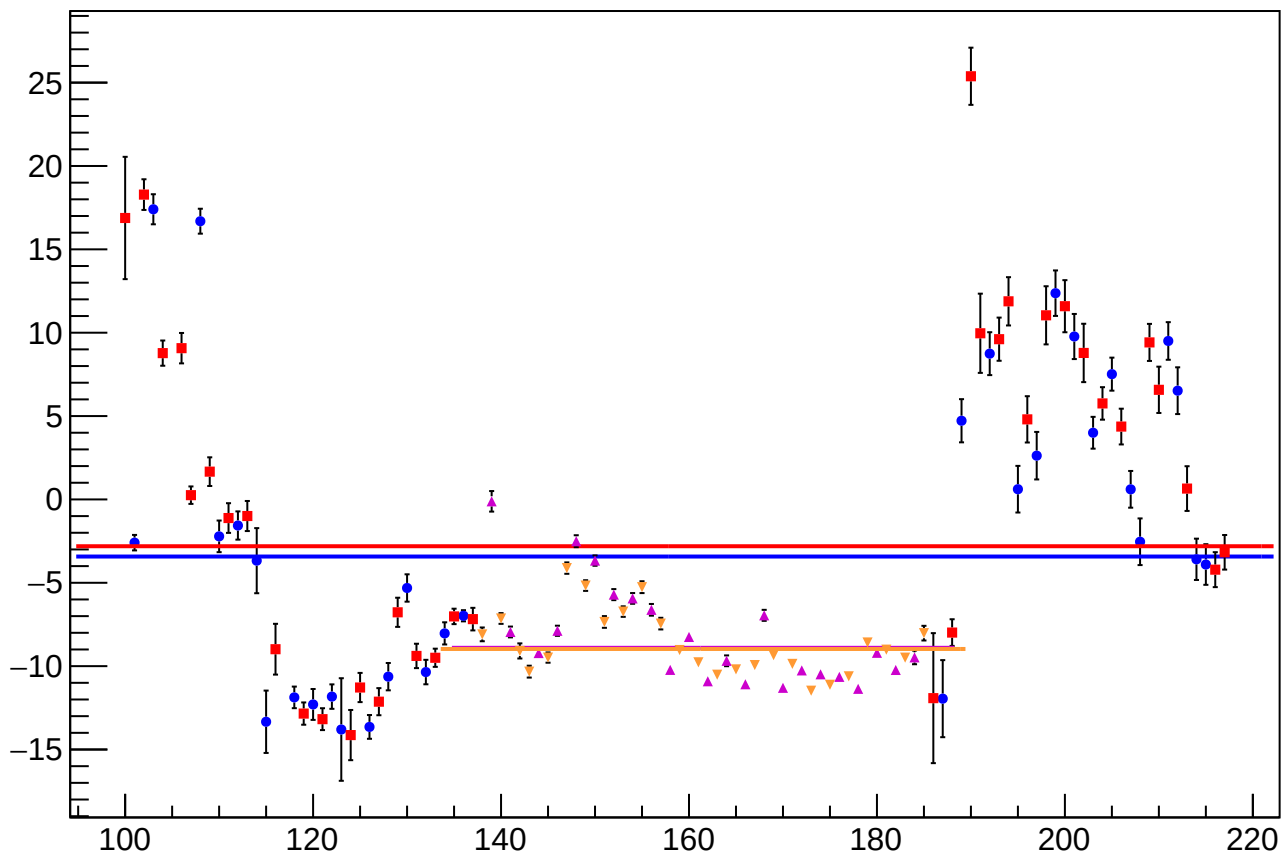
Right: -4.224 ± 0.105 χ^2/NDF : 5705.6/67

In: -6.806 ± 0.062 χ^2/NDF : 5907.6/54

Out: -6.748 ± 0.061 χ^2/NDF : 6681.6/60

All: -6.776 ± 0.043 χ^2/NDF : 12589.7/115

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.425 ± 0.151 χ^2/NDF : 3013.5/31

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.808 ± 0.151 χ^2/NDF : 3239.1/35

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

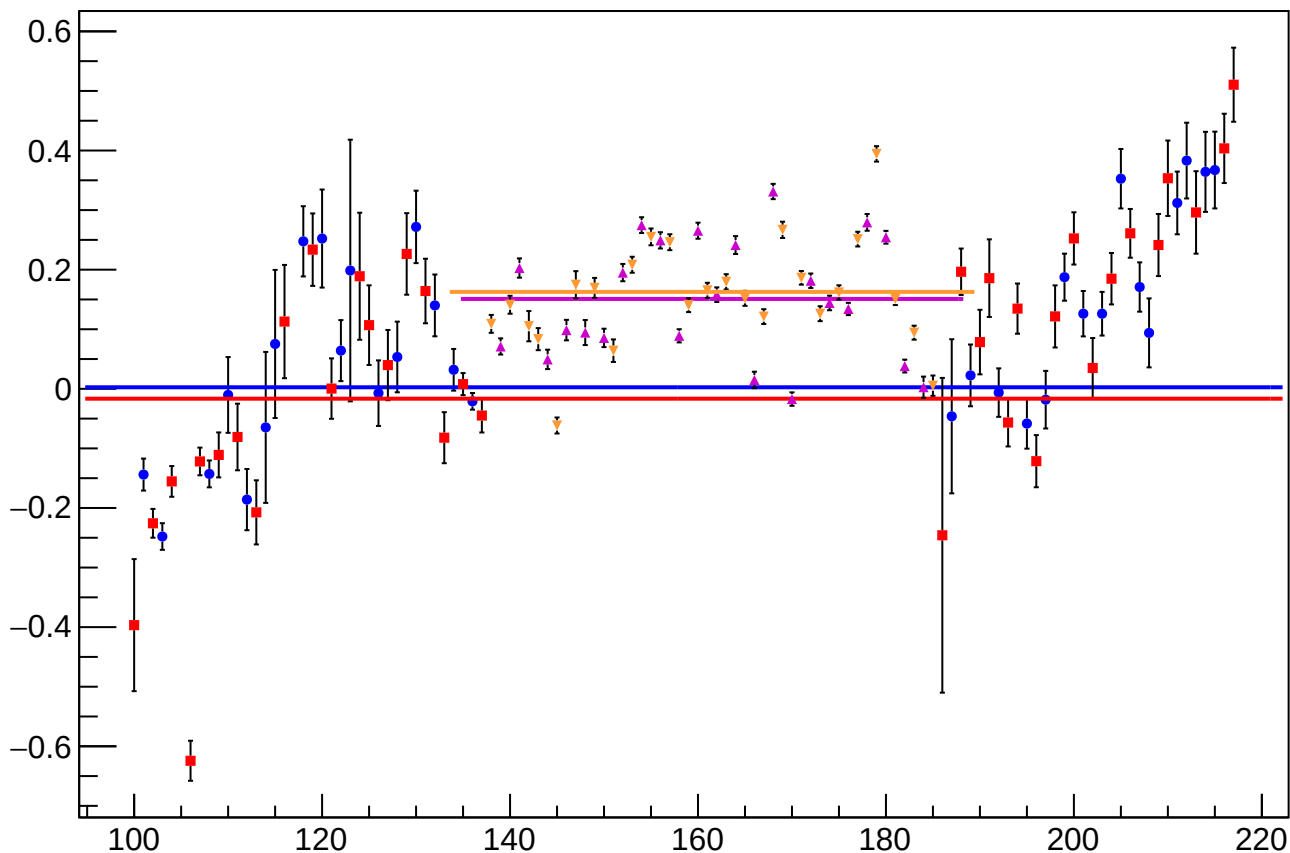
Right: -3.116 ± 0.107 χ^2/NDF : 6261.0/67

In: -8.120 ± 0.057 χ^2/NDF : 5671.4/54

Out: -8.127 ± 0.056 χ^2/NDF : 5553.6/60

All: -8.123 ± 0.040 χ^2/NDF : 11225.0/115

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.003 ± 0.007 χ^2/NDF : 516.7/31

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.017 ± 0.007 χ^2/NDF : 918.8/35

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

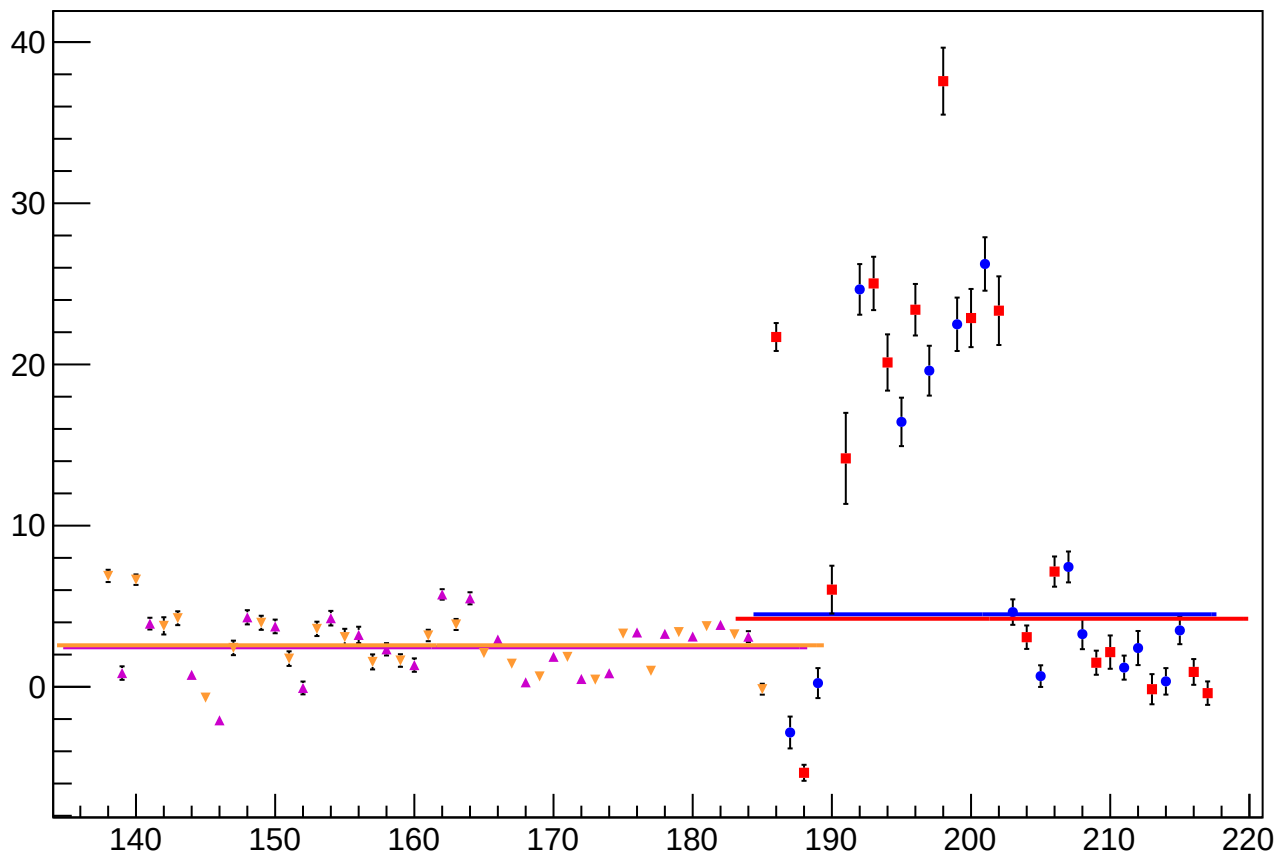
Right: -0.007 ± 0.005 χ^2/NDF : 1439.4/67

In: 0.131 ± 0.003 χ^2/NDF : 2194.6/54

Out: 0.139 ± 0.003 χ^2/NDF : 2515.1/60

All: 0.135 ± 0.002 χ^2/NDF : 4714.6/115

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.498 ± 0.252 $\chi^2/\text{NDF}: 783.5/14$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 4.224 ± 0.235 $\chi^2/\text{NDF}: 1730.2/16$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

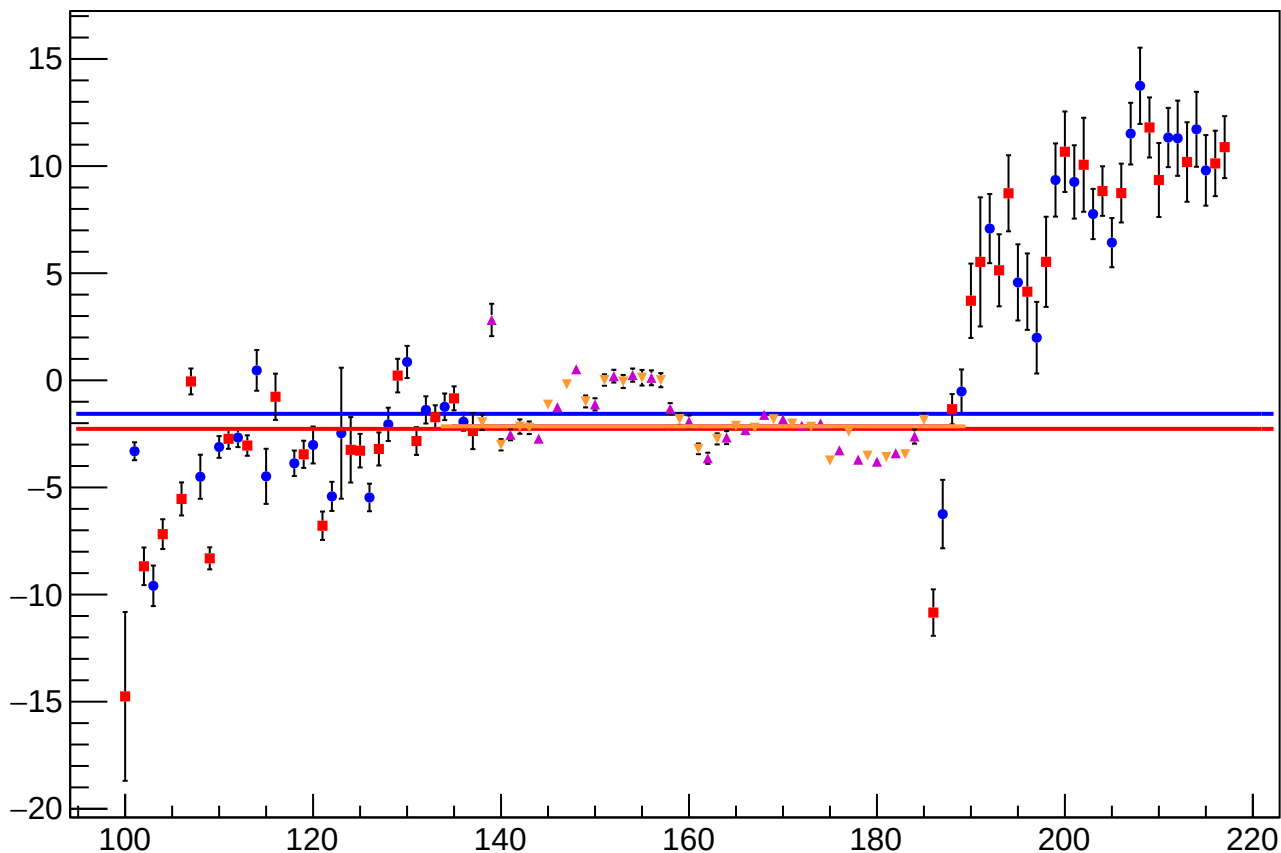
Right: 4.351 ± 0.172 $\chi^2/\text{NDF}: 2514.4/31$

In: 2.560 ± 0.058 $\chi^2/\text{NDF}: 1717.2/37$

Out: 2.672 ± 0.057 $\chi^2/\text{NDF}: 2644.1/41$

All: 2.617 ± 0.040 $\chi^2/\text{NDF}: 4363.3/79$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.564 ± 0.144 $\chi^2/\text{NDF}: 871.6/31$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.266 ± 0.141 $\chi^2/\text{NDF}: 1102.4/35$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

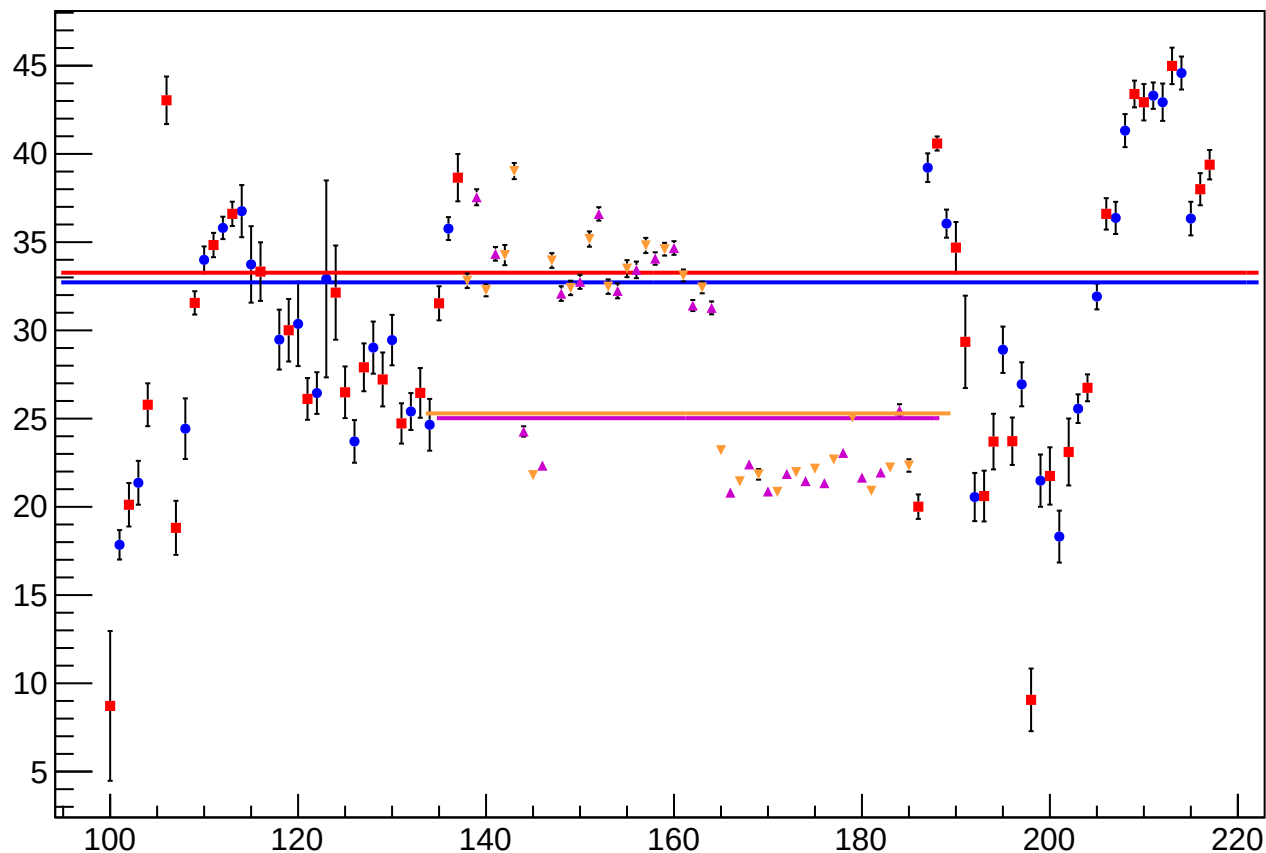
Right: -1.921 ± 0.101 $\chi^2/\text{NDF}: 1986.1/67$

In: -2.078 ± 0.046 $\chi^2/\text{NDF}: 1577.1/54$

Out: -2.158 ± 0.045 $\chi^2/\text{NDF}: 1676.4/60$

All: -2.119 ± 0.032 $\chi^2/\text{NDF}: 3255.1/115$

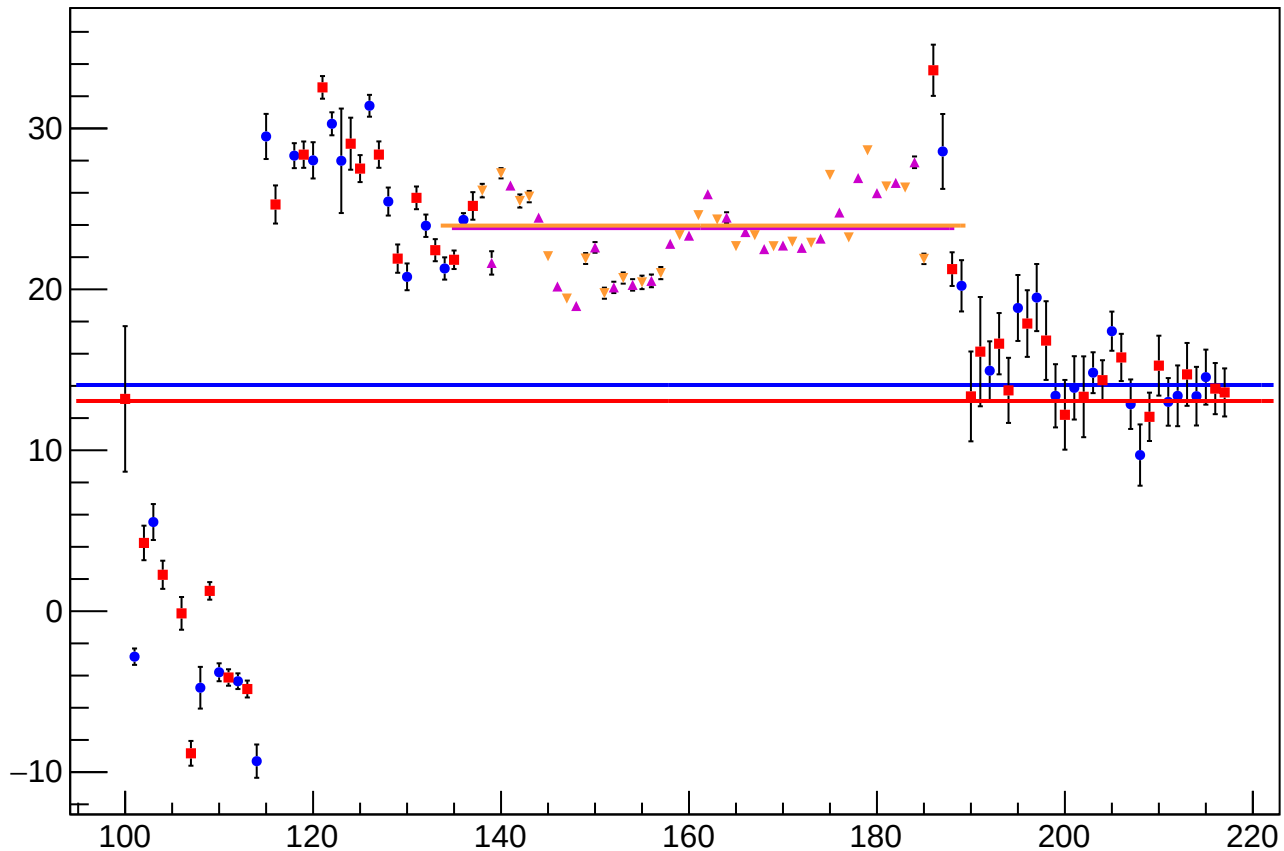
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.721 $\pm$ 0.181 χ^2 /NDF: 1650.9/31
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24
 Right Out: 33.268 $\pm$ 0.168 χ^2 /NDF: 2250.7/35
 Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47
 Right: 33.016 $\pm$ 0.123 χ^2 /NDF: 3906.5/67
 In: 25.775 $\pm$ 0.057 χ^2 /NDF:10885.0/54
 Out: 26.165 $\pm$ 0.056 χ^2 /NDF:12525.2/60
 All: 25.974 $\pm$ 0.040 χ^2 /NDF: 23434.4/115

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.057 $\pm$ 0.161 χ^2 /NDF: 7357.6/31

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.063 $\pm$ 0.161 χ^2 /NDF: 7215.2/35

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

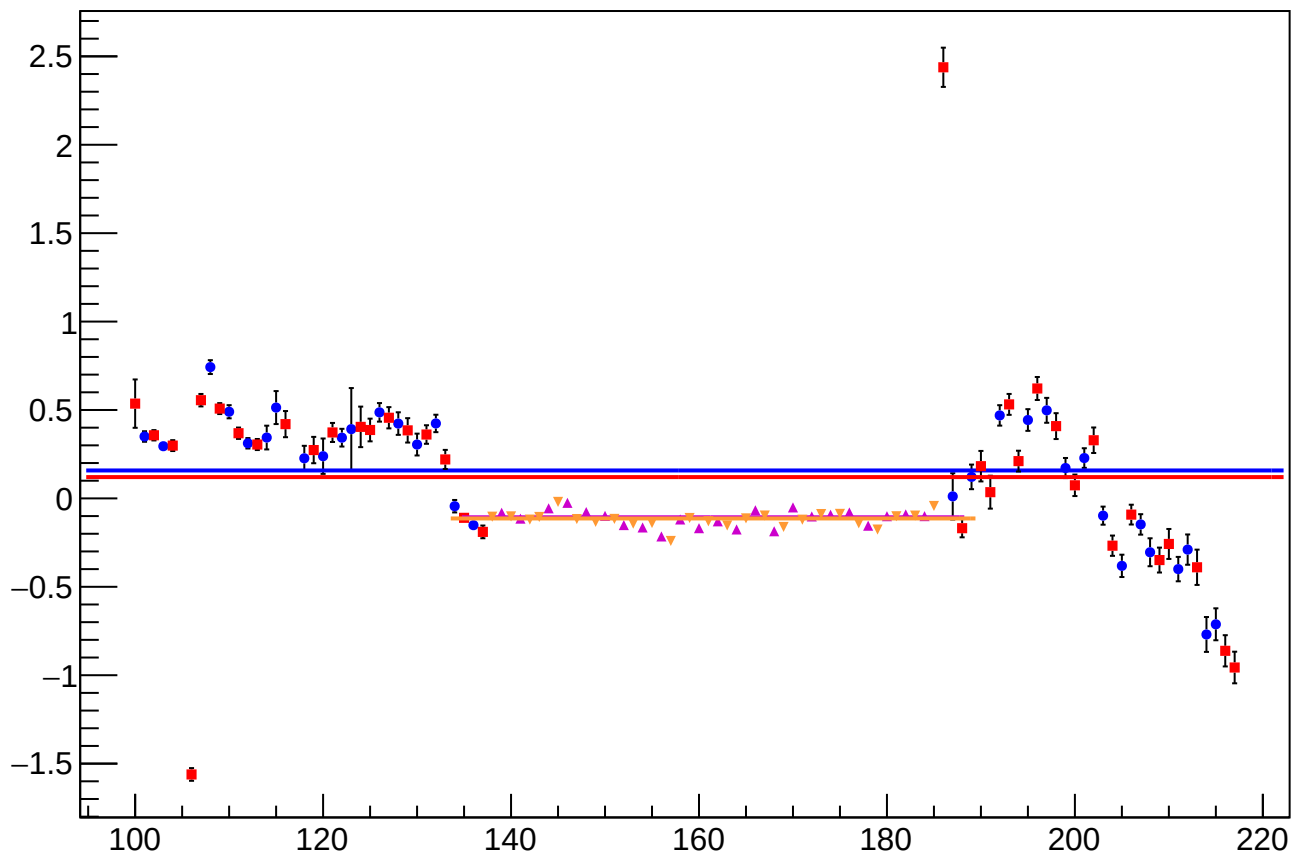
Right: 13.559 $\pm$ 0.114 χ^2 /NDF: 14591.9/67

In: 22.817 $\pm$ 0.051 χ^2 /NDF:12418.7/54

Out: 22.885 $\pm$ 0.050 χ^2 /NDF:13291.2/60

All: 22.851 $\pm$ 0.036 χ^2 /NDF: 25710.8/115

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.158 $\pm$ 0.008 χ^2 /NDF: 1382.3/31

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.120 $\pm$ 0.008 χ^2 /NDF: 4040.6/35

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

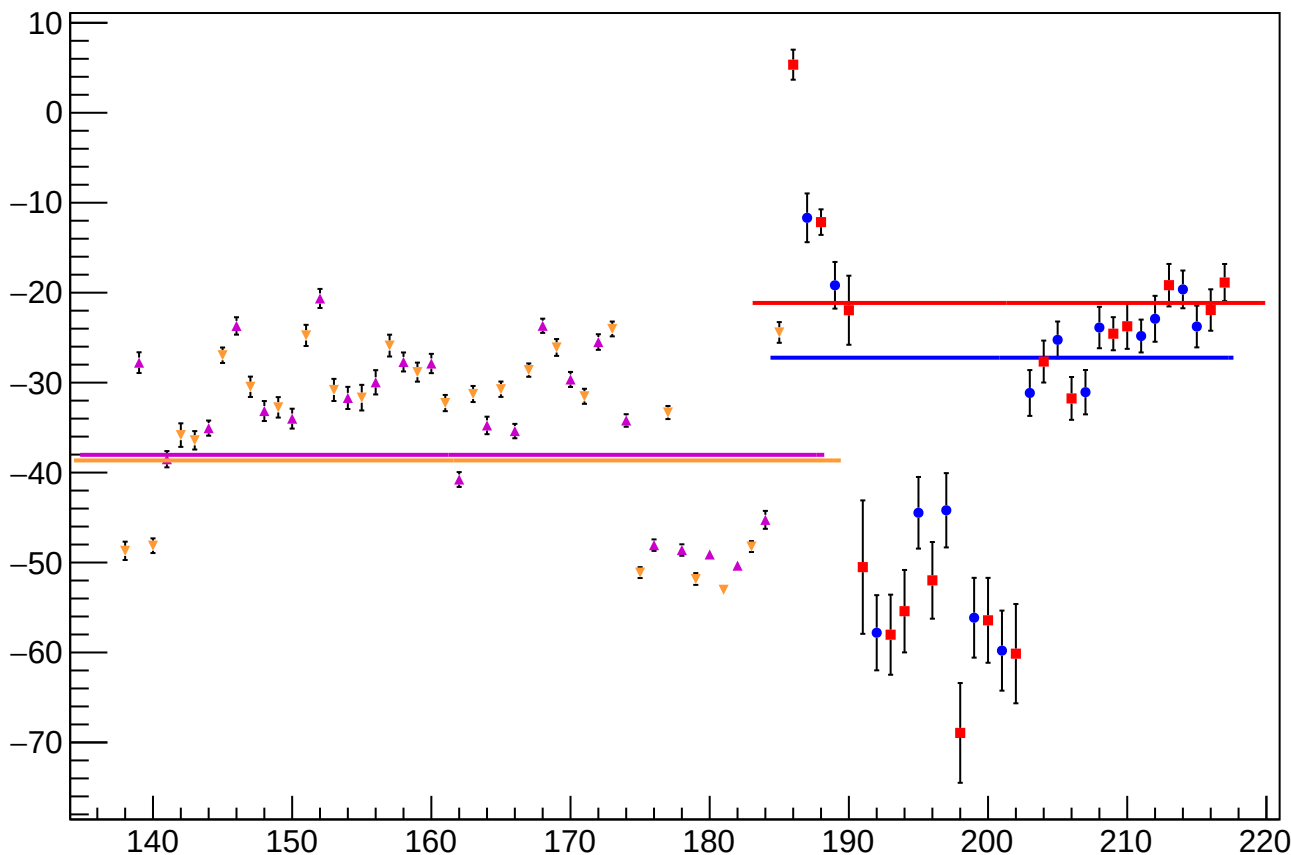
Right: 0.139 $\pm$ 0.006 χ^2 /NDF: 5433.4/67

In: -0.085 $\pm$ 0.002 χ^2 /NDF: 2648.6/54

Out: -0.094 $\pm$ 0.002 χ^2 /NDF: 5097.8/60

All: -0.090 $\pm$ 0.002 χ^2 /NDF: 7754.2/115

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

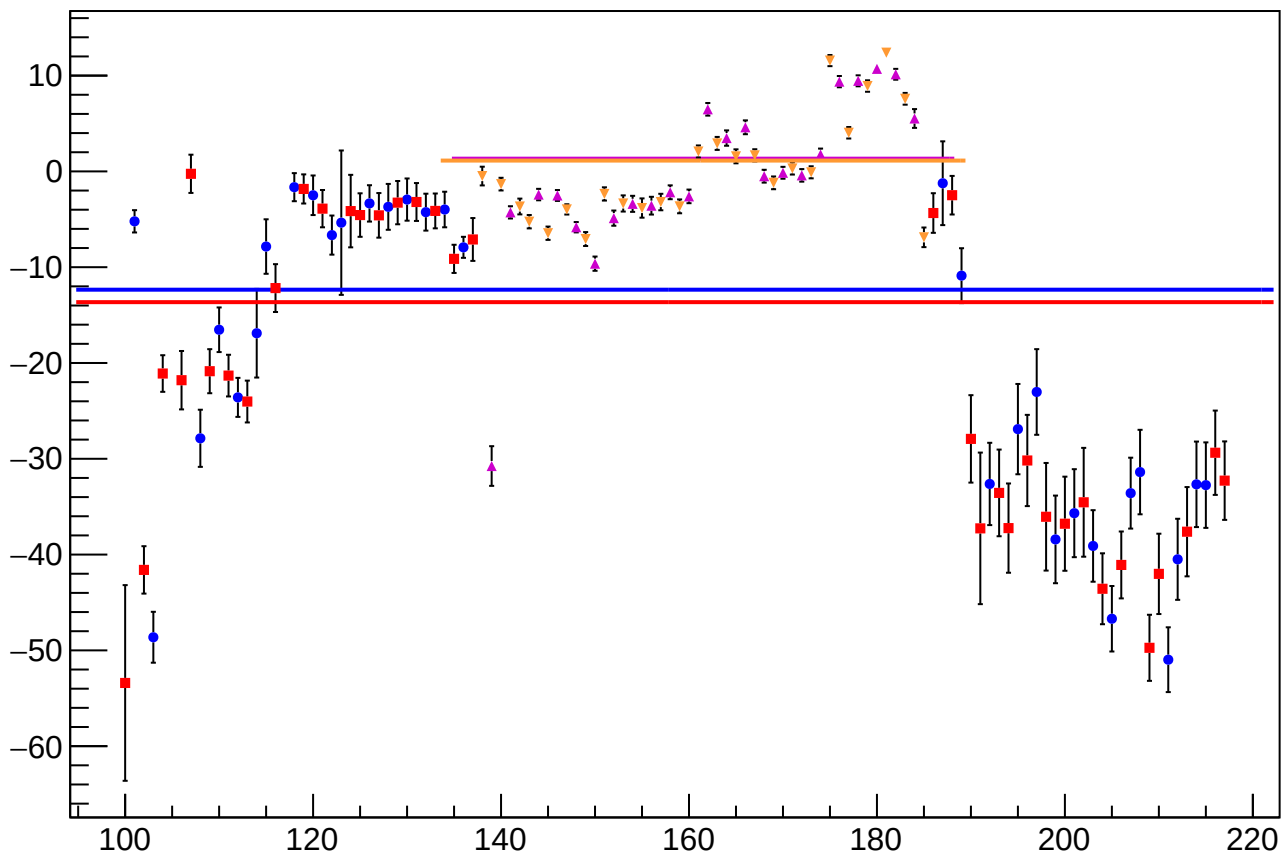


Right In: -27.228 ± 0.677 χ^2/NDF : 255.6/14
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.140 ± 0.618 χ^2/NDF : 698.8/16
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -23.904 ± 0.456 χ^2/NDF : 998.5/31
 In: -37.364 ± 0.168 χ^2/NDF : 3586.1/37
 Out: -37.429 ± 0.163 χ^2/NDF : 5523.8/41

All: -37.398 ± 0.117 χ^2/NDF : 9110.0/79

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.349 ± 0.425 χ^2/NDF : 1003.8/31

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.649 ± 0.431 χ^2/NDF : 993.3/35

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

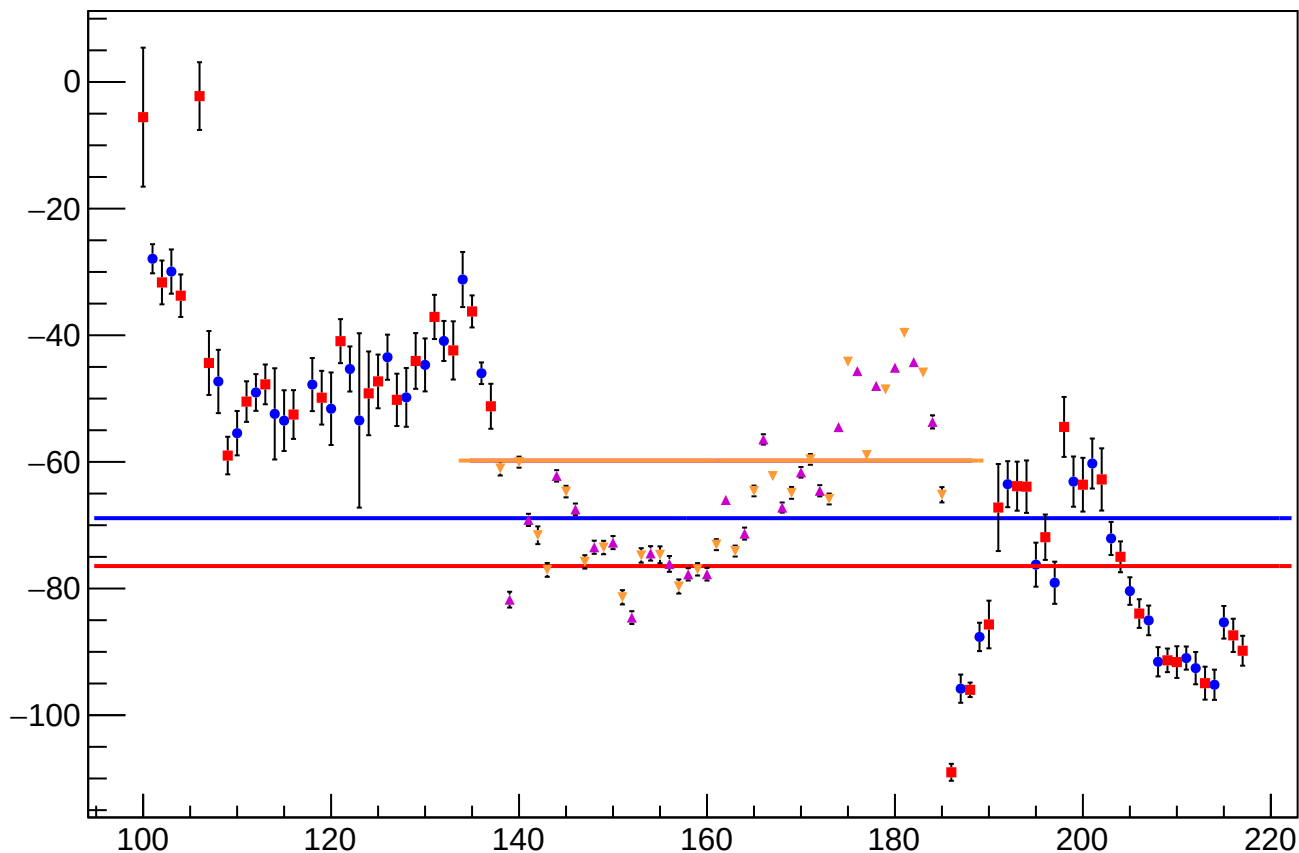
Right: -12.989 ± 0.303 χ^2/NDF : 2001.8/67

In: -0.007 ± 0.133 χ^2/NDF : 3986.6/54

Out: -0.207 ± 0.130 χ^2/NDF : 3861.0/60

All: -0.109 ± 0.093 χ^2/NDF : 7848.8/115

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.887 ± 0.519 $\chi^2/\text{NDF}: 1857.0/31$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -76.450 ± 0.479 $\chi^2/\text{NDF}: 2777.0/35$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

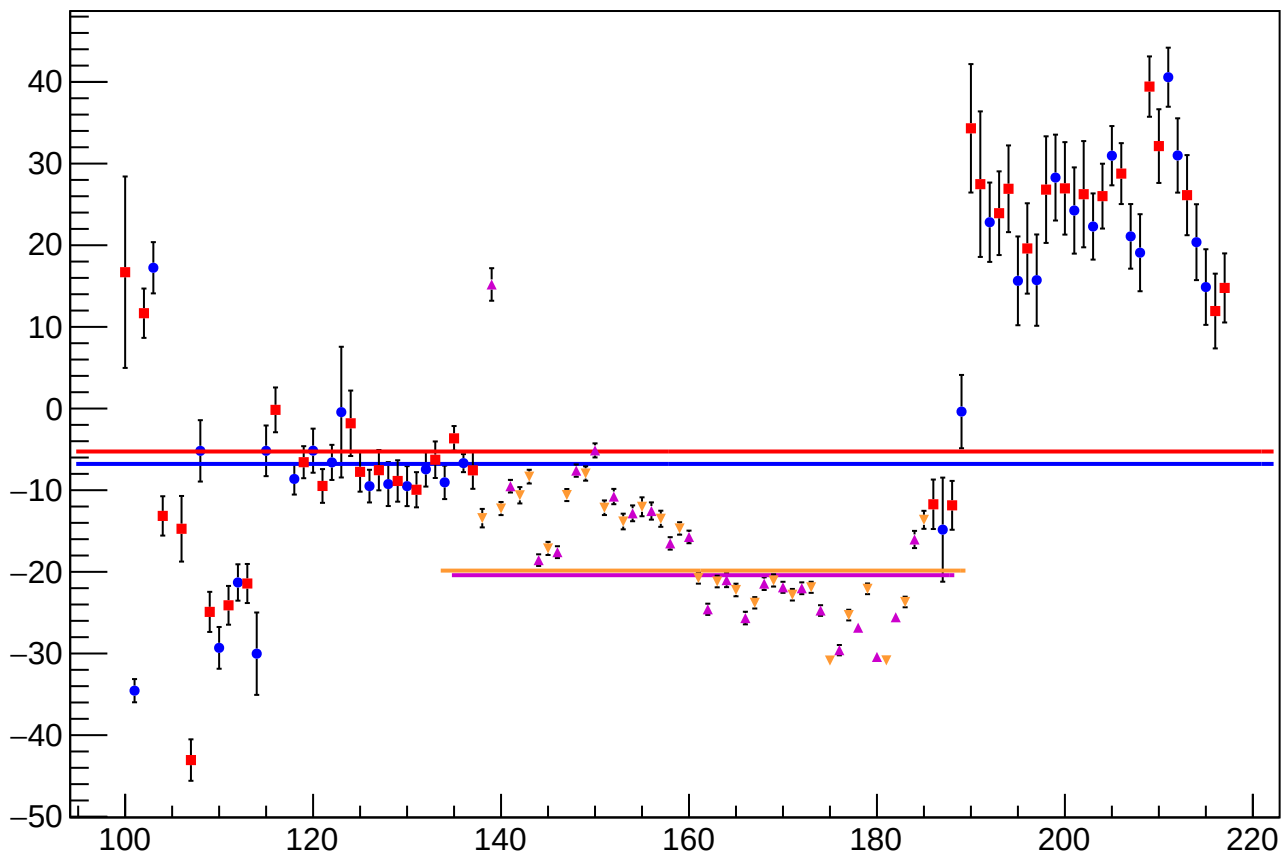
Right: -72.978 ± 0.352 $\chi^2/\text{NDF}: 4748.6/67$

In: -60.712 ± 0.164 $\chi^2/\text{NDF}: 7349.8/54$

Out: -61.658 ± 0.160 $\chi^2/\text{NDF}: 9690.7/60$

All: -61.197 ± 0.115 $\chi^2/\text{NDF}: 17057.5/115$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

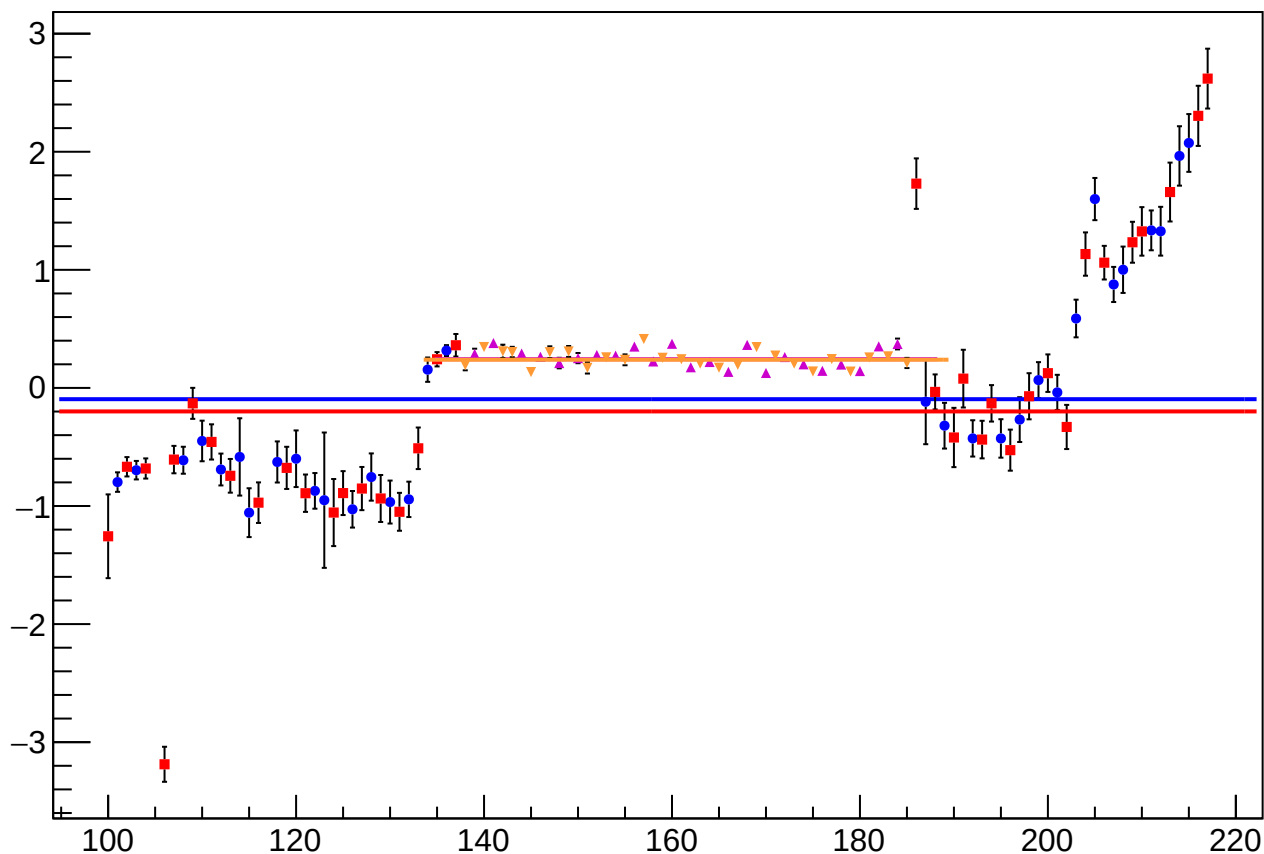


Right In: -6.782 ± 0.479 $\chi^2/\text{NDF}: 1277.7/31$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -5.262 ± 0.495 $\chi^2/\text{NDF}: 1120.3/35$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -6.047 ± 0.344 $\chi^2/\text{NDF}: 2402.9/67$
 In: -19.092 ± 0.149 $\chi^2/\text{NDF}: 4311.5/54$
 Out: -18.577 ± 0.146 $\chi^2/\text{NDF}: 3845.5/60$

All: -18.830 ± 0.104 $\chi^2/\text{NDF}: 8163.1/115$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.095 ± 0.024 χ^2/NDF : 889.3/31

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.199 ± 0.024 χ^2/NDF : 1350.5/35

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

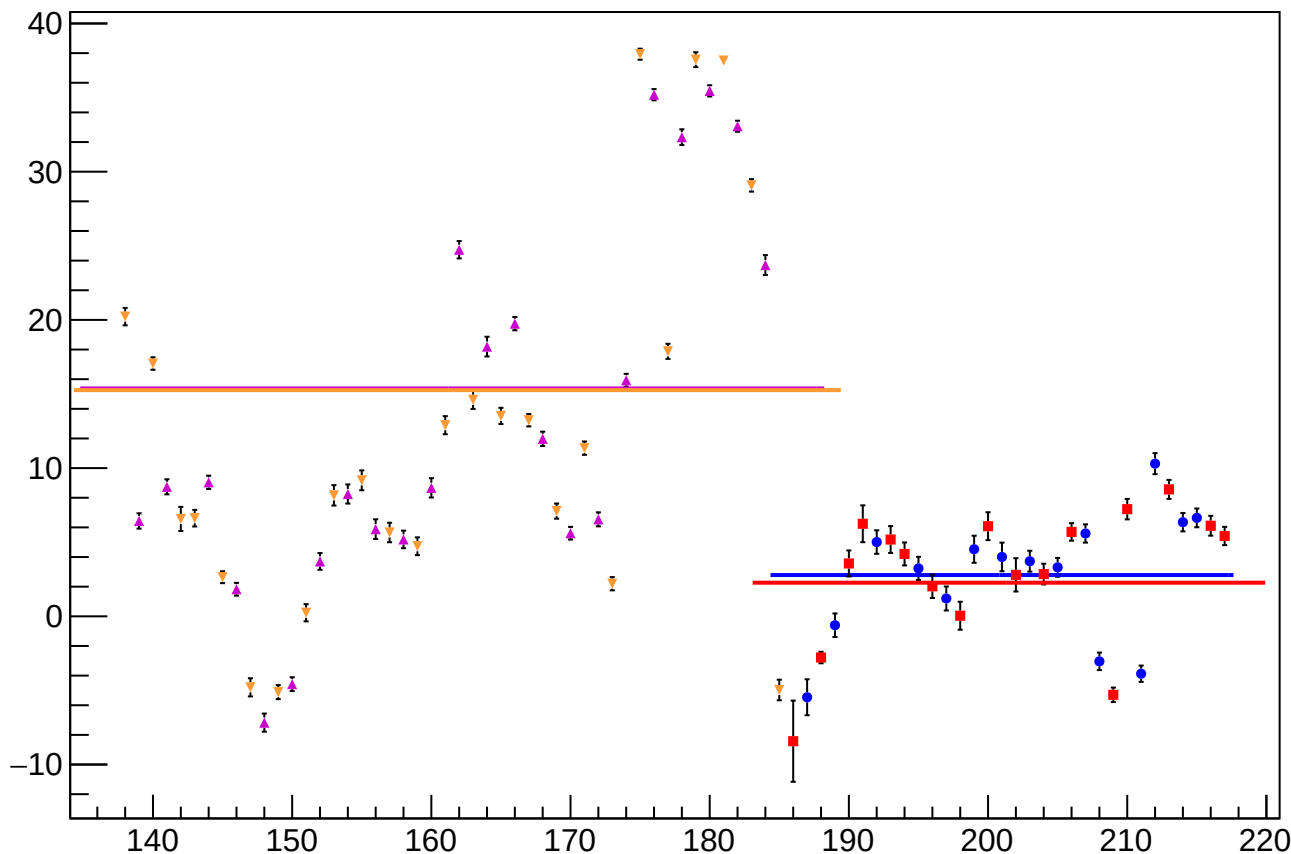
Right: -0.146 ± 0.017 χ^2/NDF : 2249.2/67

In: 0.215 ± 0.007 χ^2/NDF : 1214.3/54

Out: 0.205 ± 0.007 χ^2/NDF : 1746.4/60

All: 0.210 ± 0.005 χ^2/NDF : 2961.8/115

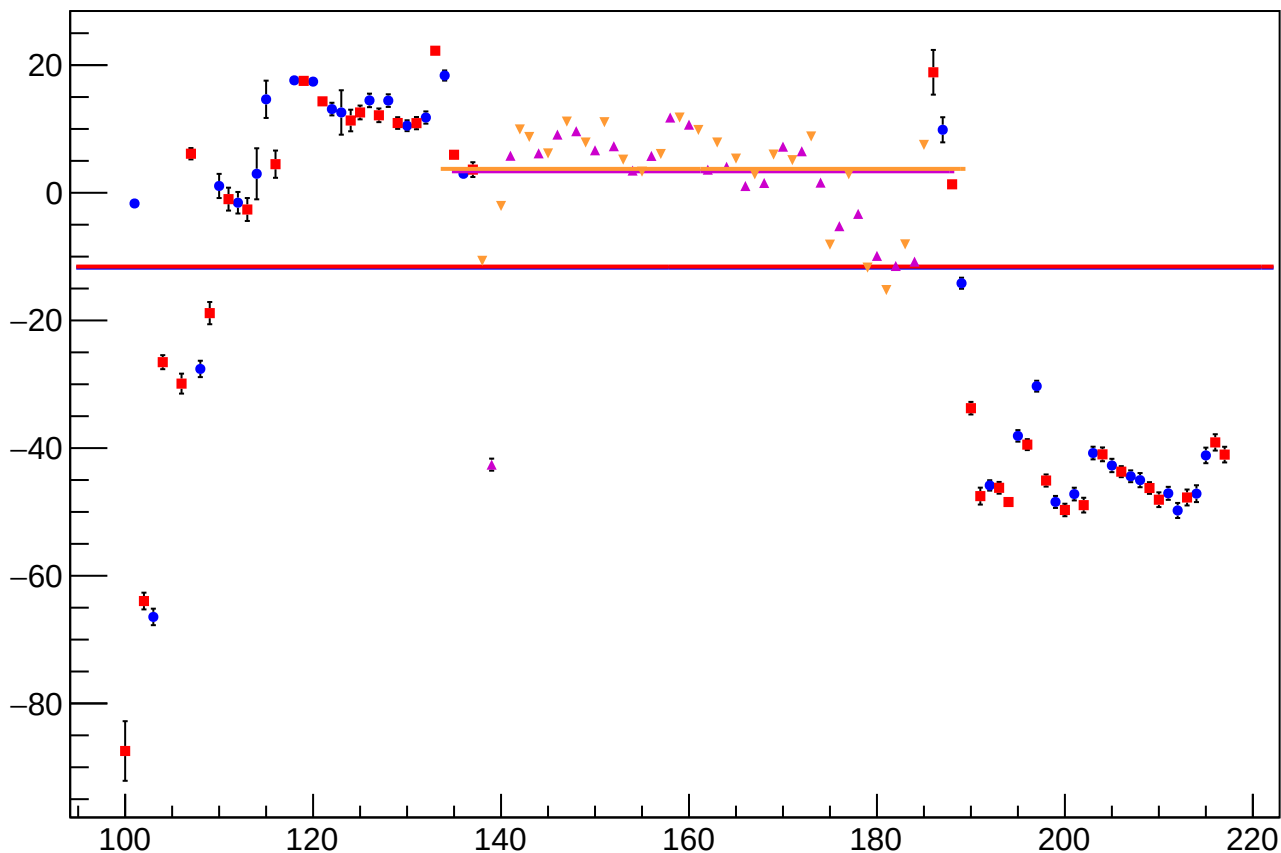
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.784 $\pm$ 0.184 χ^2 /NDF: 530.9/14
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 2.269 $\pm$ 0.170 χ^2 /NDF: 716.2/16
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 2.506 $\pm$ 0.125 χ^2 /NDF: 1251.4/31
 In: 12.374 $\pm$ 0.090 χ^2 /NDF:20381.5/37
 Out: 11.889 $\pm$ 0.086 χ^2 /NDF:24232.3/41
 All: 12.122 $\pm$ 0.062 χ^2 /NDF: 44628.9/79

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.731 ± 0.167 $\chi^2/\text{NDF}: 26673.5/31$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -11.560 ± 0.159 $\chi^2/\text{NDF}: 32277.6/35$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

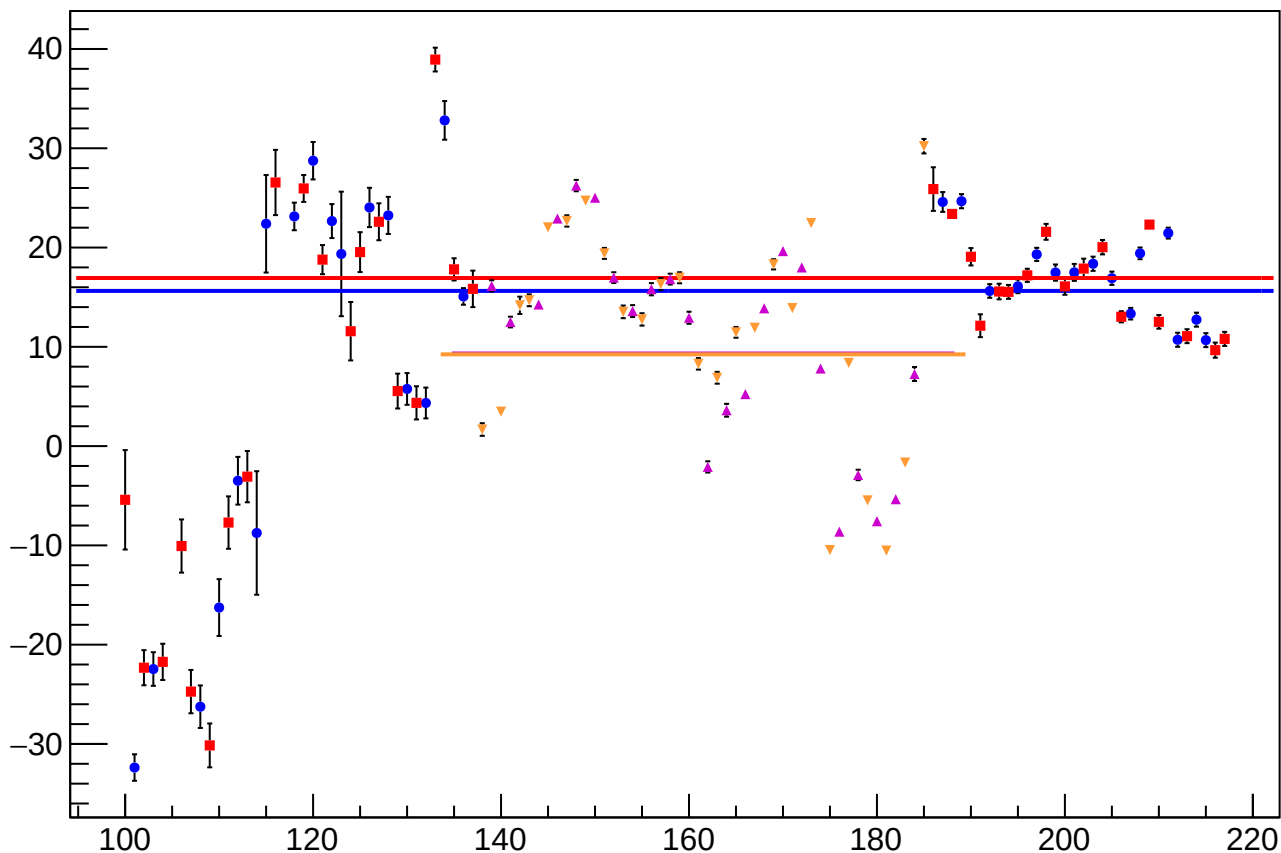
Right: -11.641 ± 0.115 $\chi^2/\text{NDF}: 58951.7/67$

In: 0.490 ± 0.073 $\chi^2/\text{NDF}: 41777.2/54$

Out: 0.718 ± 0.071 $\chi^2/\text{NDF}: 48996.6/60$

All: 0.608 ± 0.051 $\chi^2/\text{NDF}: 90778.9/115$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.632 $\pm$ 0.164 χ^2 /NDF: 3267.5/31

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 16.932 $\pm$ 0.149 χ^2 /NDF: 3497.0/35

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

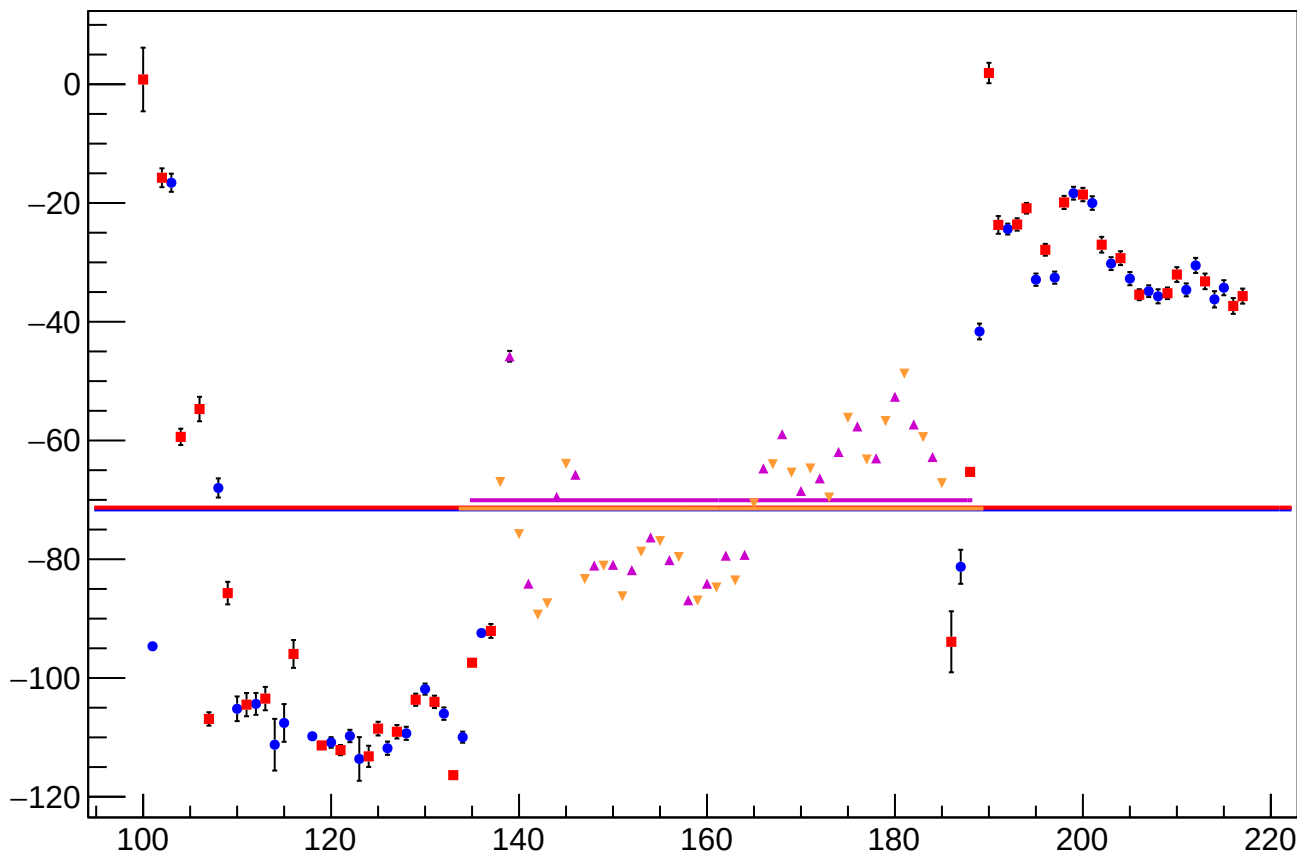
Right: 16.343 $\pm$ 0.110 χ^2 /NDF: 6799.0/67

In: 11.104 $\pm$ 0.087 χ^2 /NDF:16300.3/54

Out: 11.655 $\pm$ 0.084 χ^2 /NDF:18952.9/60

All: 11.390 $\pm$ 0.060 χ^2 /NDF: 35274.1/115

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -71.605 ± 0.192 $\chi^2/\text{NDF}: 36793.3/31$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -71.298 ± 0.184 $\chi^2/\text{NDF}: 44936.9/35$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

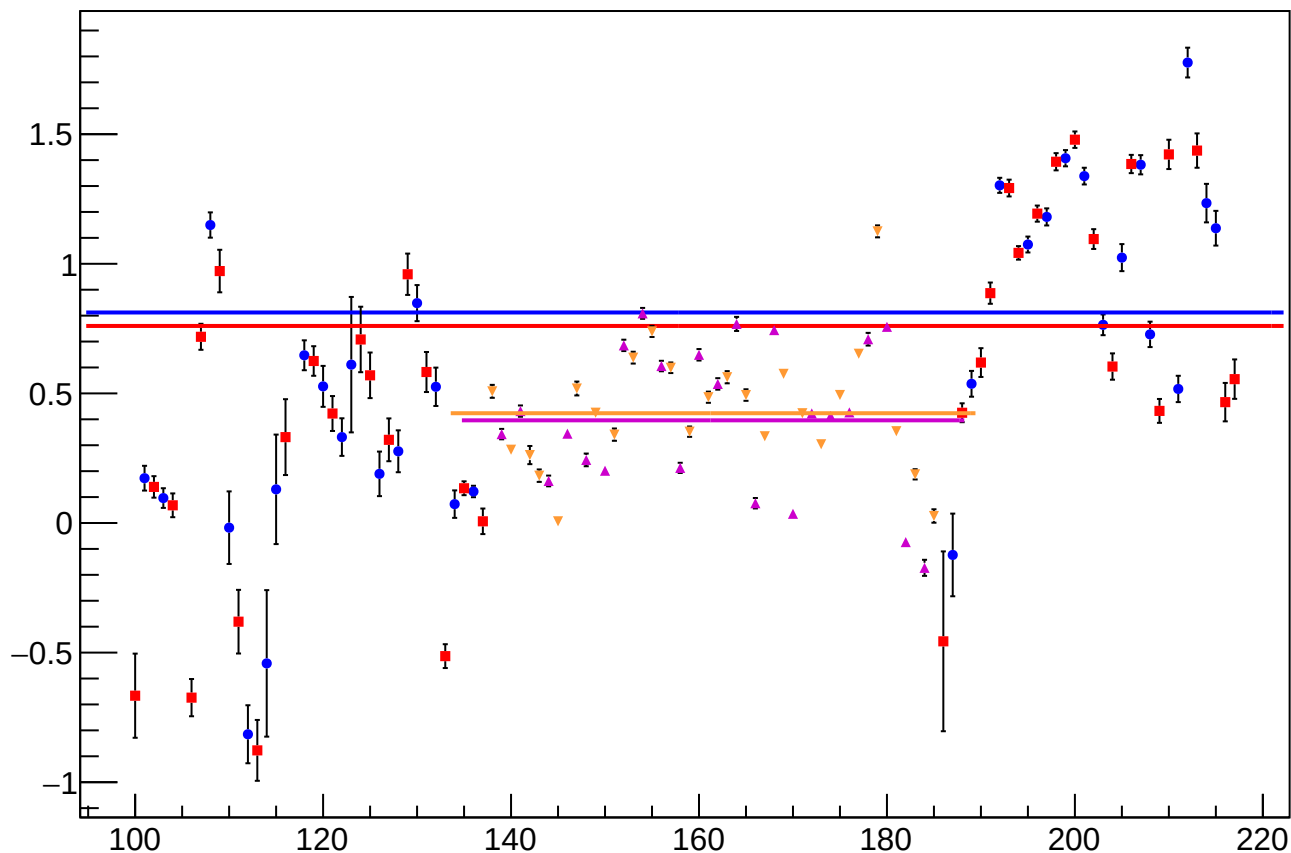
Right: -71.446 ± 0.133 $\chi^2/\text{NDF}: 81731.6/67$

In: -70.349 ± 0.083 $\chi^2/\text{NDF}: 49904.7/54$

Out: -71.433 ± 0.080 $\chi^2/\text{NDF}: 61347.2/60$

All: -70.907 ± 0.058 $\chi^2/\text{NDF}: 111340.3/115$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.812 $\pm$ 0.008 χ^2 /NDF: 4014.6/31

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.760 $\pm$ 0.008 χ^2 /NDF: 5136.7/35

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

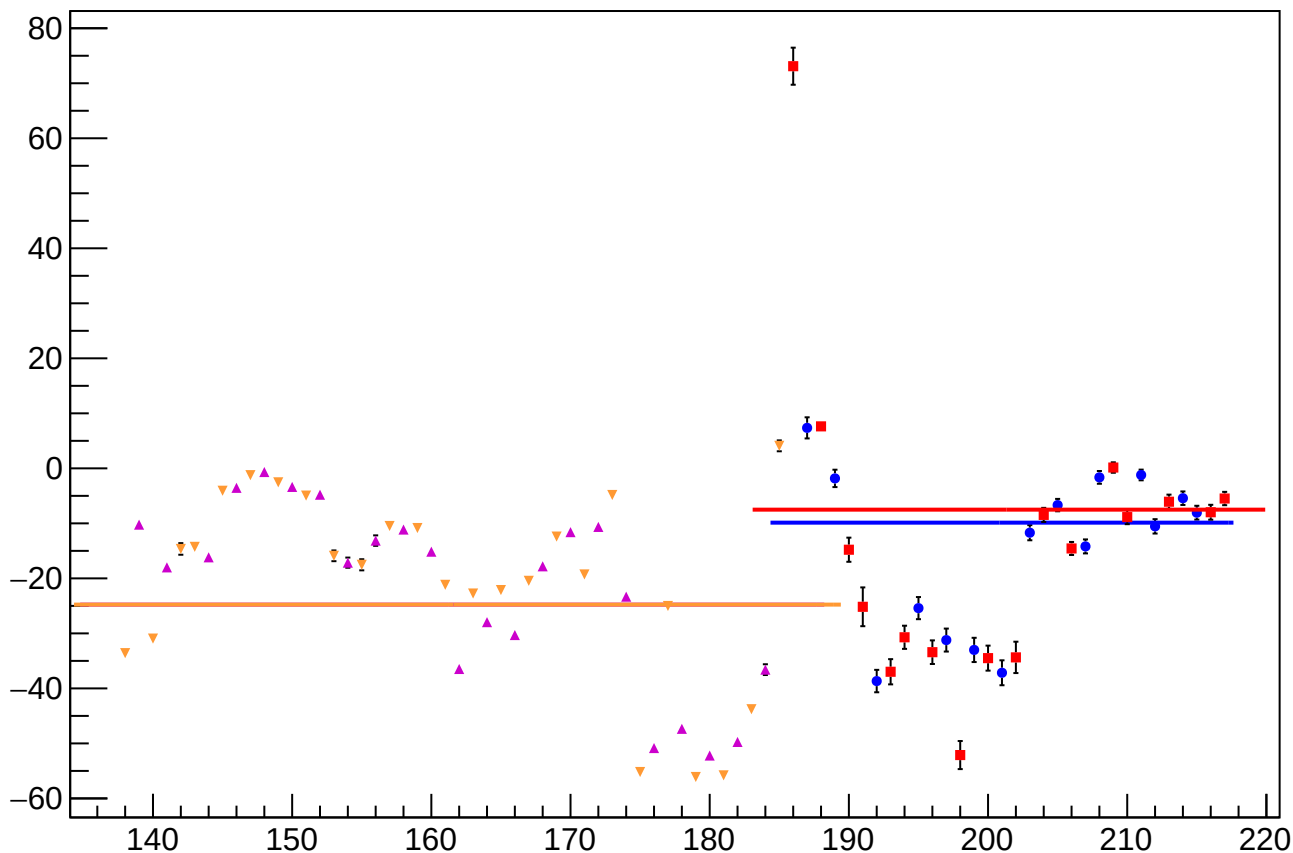
Right: 0.785 $\pm$ 0.006 χ^2 /NDF: 9171.5/67

In: 0.479 $\pm$ 0.004 χ^2 /NDF:10048.2/54

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9436.2/60

All: 0.487 $\pm$ 0.003 χ^2 /NDF: 19492.9/115

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.872 ± 0.368 χ^2/NDF : 892.2/14

Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24

Right Out: -7.508 ± 0.356 χ^2/NDF : 2040.6/16

Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47

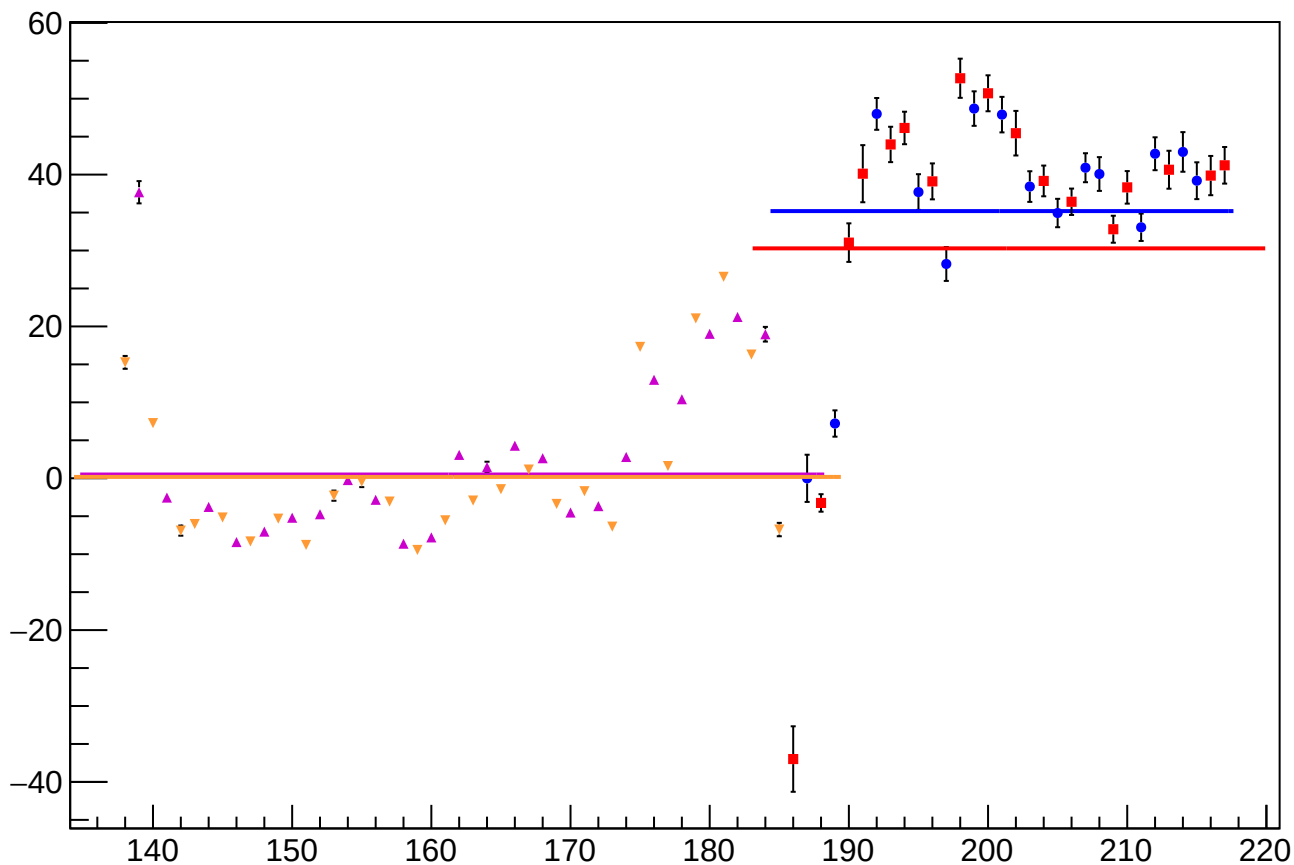
Right: -8.651 ± 0.256 χ^2/NDF : 2954.1/31

In: -22.821 ± 0.133 χ^2/NDF : 17128.4/37

Out: -22.470 ± 0.130 χ^2/NDF : 22402.0/41

All: -22.641 ± 0.093 χ^2/NDF : 39533.9/79

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.193 $\pm$ 0.553 χ^2 /NDF: 543.6/14

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 30.283 $\pm$ 0.524 χ^2 /NDF: 1475.7/16

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

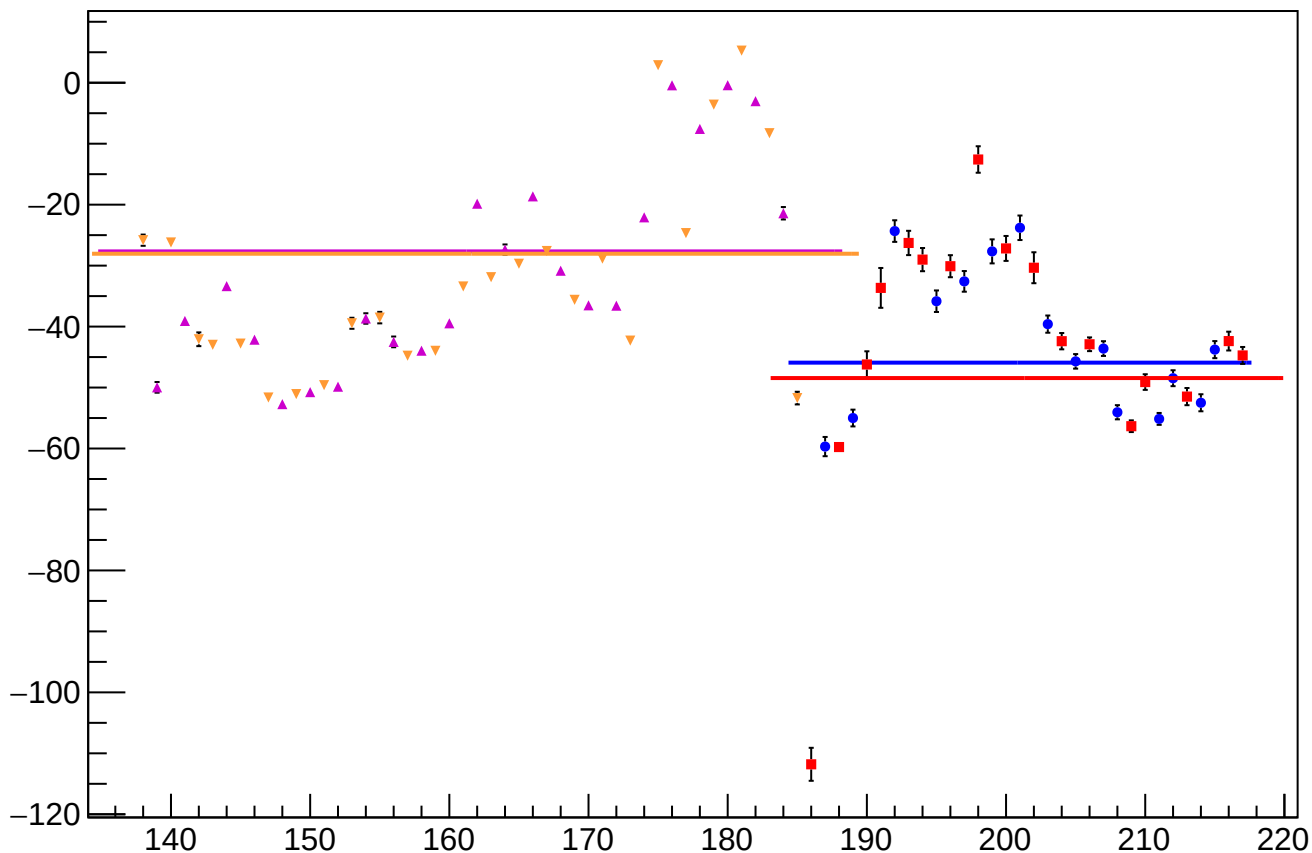
Right: 32.603 $\pm$ 0.380 χ^2 /NDF: 2060.9/31

In: 1.862 $\pm$ 0.110 χ^2 /NDF:10878.3/37

Out: 1.417 $\pm$ 0.106 χ^2 /NDF:12941.5/41

All: 1.632 $\pm$ 0.076 χ^2 /NDF: 23828.3/79

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$

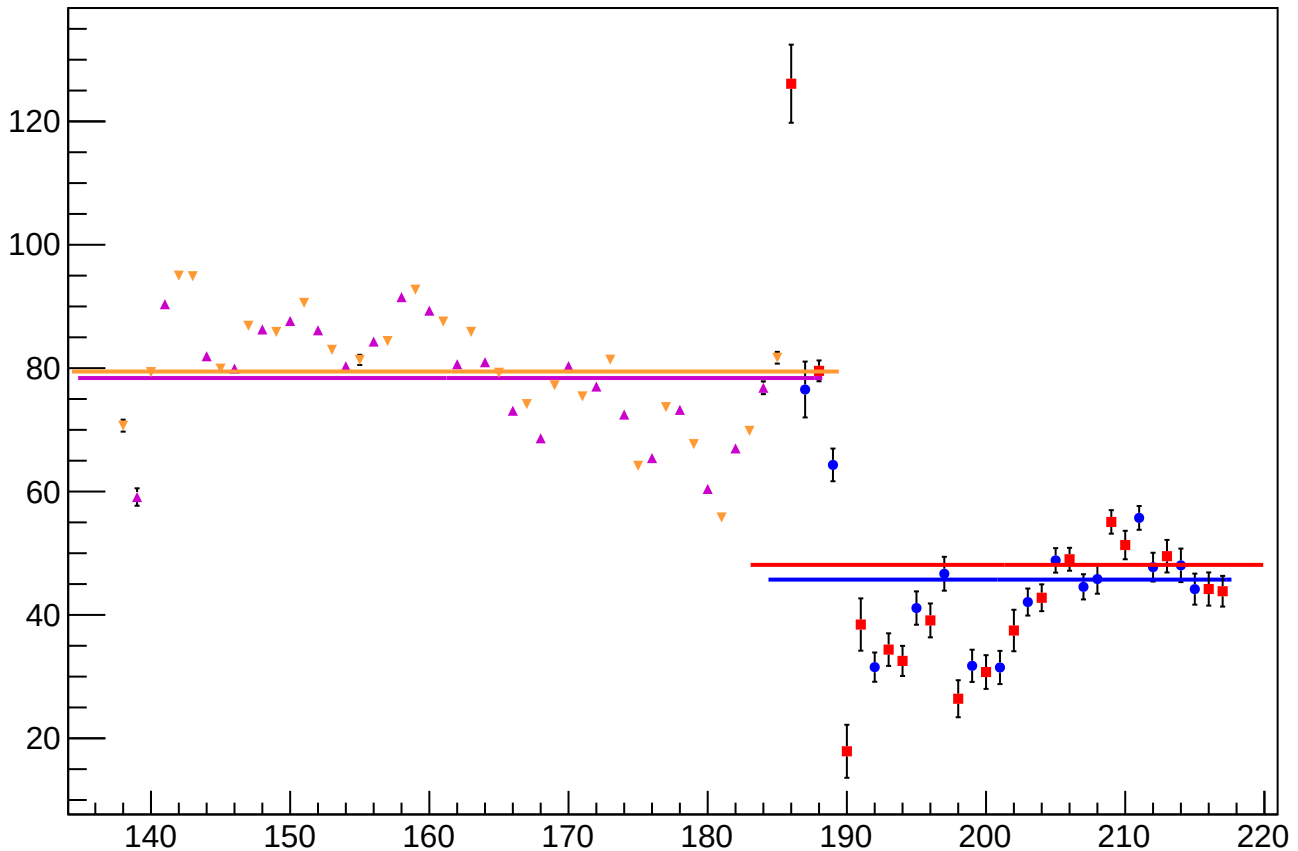
Right: -47.259 ± 0.246 $\chi^2/\text{NDF}: 2563.6/31$

In: -30.135 ± 0.132 $\chi^2/\text{NDF}: 17983.2/37$

Out: -31.032 ± 0.129 $\chi^2/\text{NDF}: 22030.1/41$

All: -30.594 ± 0.093 $\chi^2/\text{NDF}: 40036.8/79$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.725 $\pm$ 0.626 χ^2 /NDF: 225.4/14

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.113 $\pm$ 0.612 χ^2 /NDF: 762.6/16

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

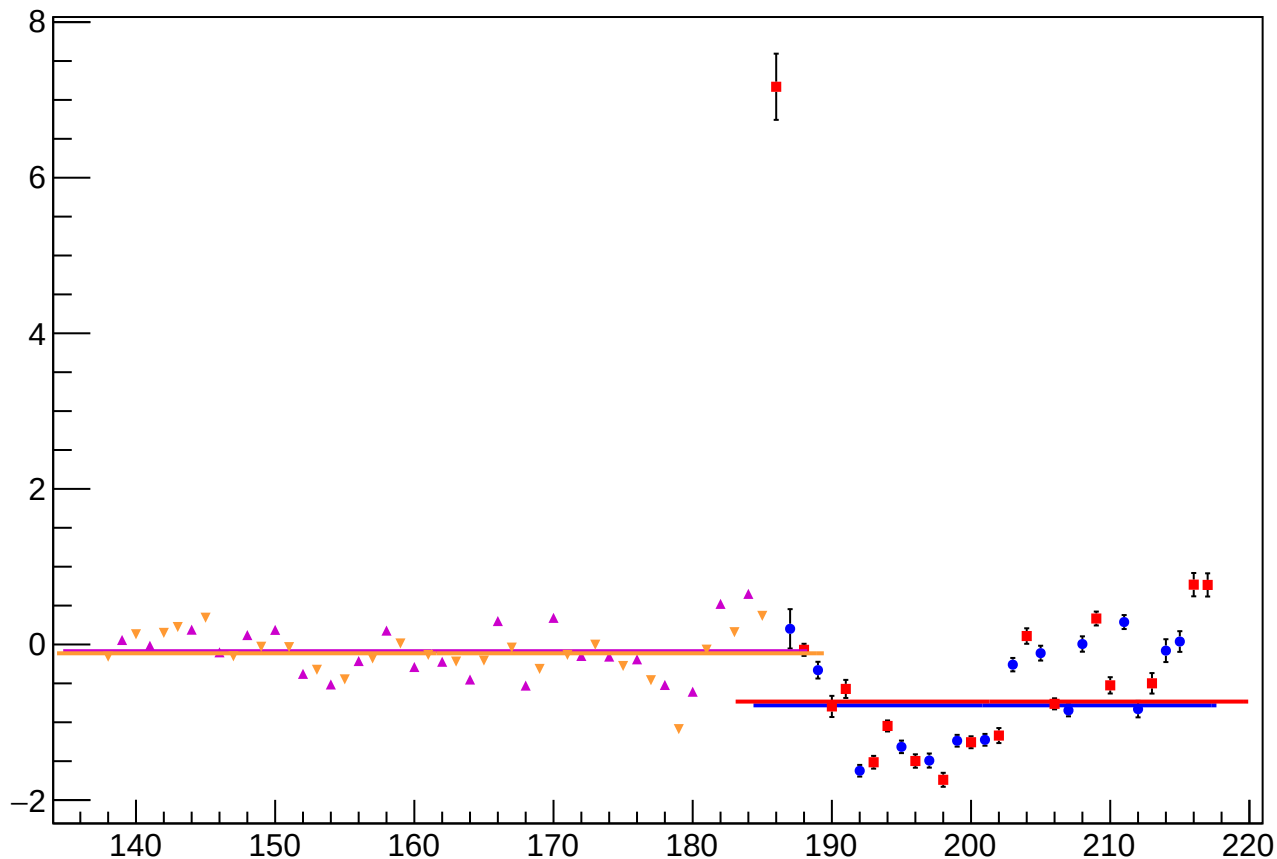
Right: 46.947 $\pm$ 0.438 χ^2 /NDF: 995.5/31

In: 77.111 $\pm$ 0.124 χ^2 /NDF: 7546.0/37

Out: 78.234 $\pm$ 0.121 χ^2 /NDF: 9363.3/41

All: 77.689 $\pm$ 0.087 χ^2 /NDF: 16951.3/79

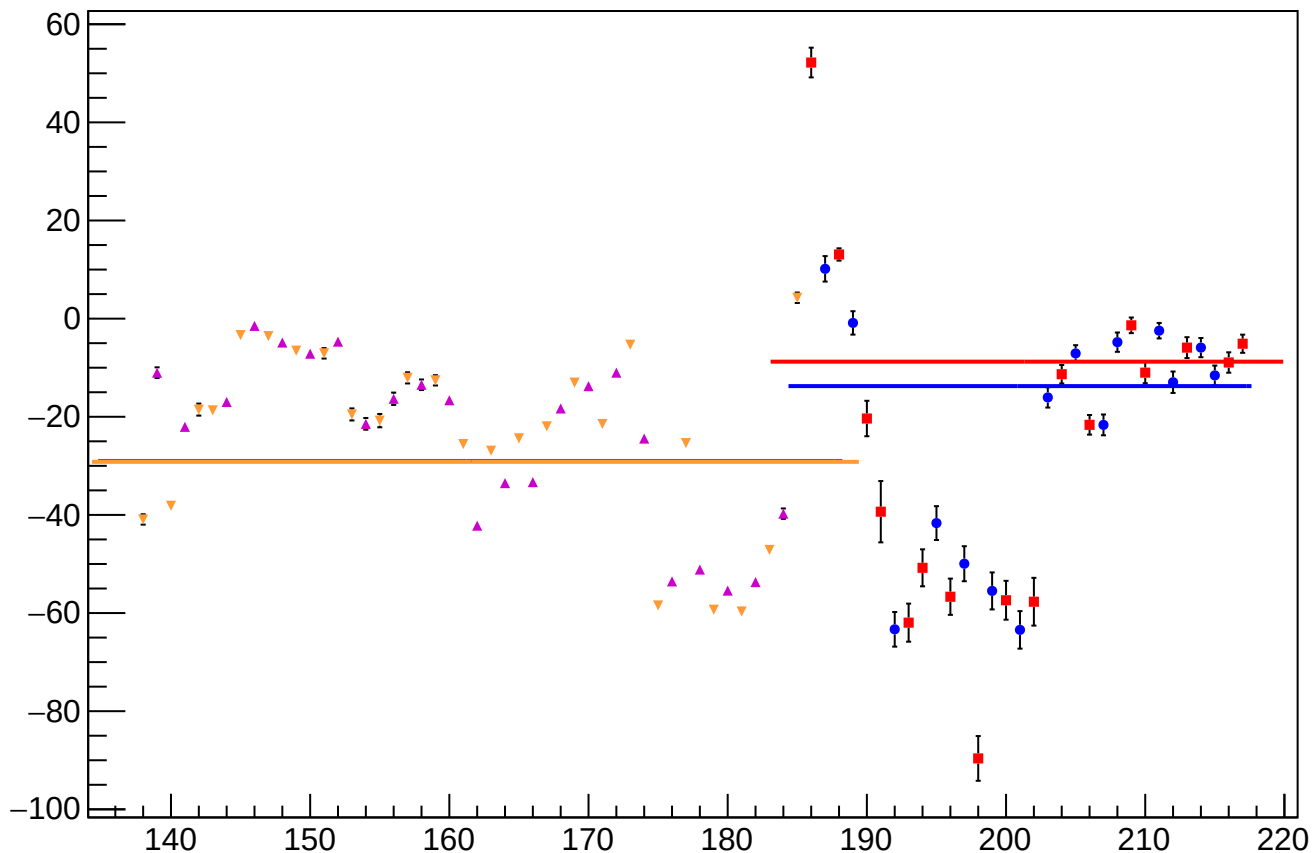
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.782 ± 0.024 χ^2/NDF : 687.9/14
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.734 ± 0.023 χ^2/NDF : 1224.2/16
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.757 ± 0.017 χ^2/NDF : 1914.2/31
 In: -0.125 ± 0.006 χ^2/NDF : 4615.8/37
 Out: -0.148 ± 0.006 χ^2/NDF : 4198.2/41
 All: -0.137 ± 0.004 χ^2/NDF : 8823.0/79

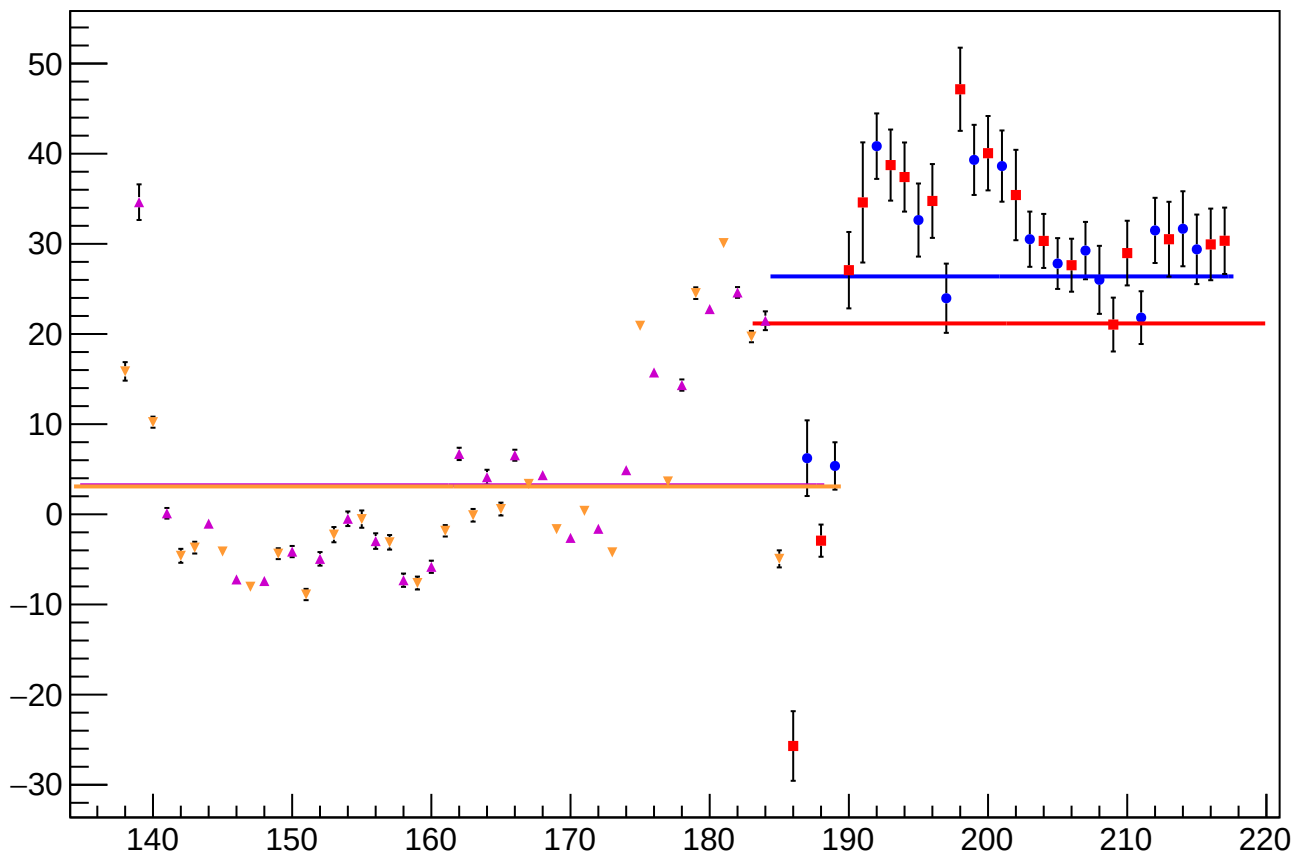
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.749 ± 0.587 $\chi^2/\text{NDF}: 890.6/14$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -8.768 ± 0.568 $\chi^2/\text{NDF}: 1861.6/16$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -11.176 ± 0.408 $\chi^2/\text{NDF}: 2789.4/31$
 In: -27.951 ± 0.154 $\chi^2/\text{NDF}: 14935.5/37$
 Out: -27.735 ± 0.151 $\chi^2/\text{NDF}: 19974.0/41$
 All: -27.841 ± 0.108 $\chi^2/\text{NDF}: 34910.5/79$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.387 ± 0.892 $\chi^2/\text{NDF}: 135.9/14$

Left Out: 3.091 ± 0.124 $\chi^2/\text{NDF}: 8084.1/24$

Right Out: 21.172 ± 0.842 $\chi^2/\text{NDF}: 480.1/16$

Left In: 3.221 ± 0.127 $\chi^2/\text{NDF}: 6237.6/22$

Left: 3.155 ± 0.089 $\chi^2/\text{NDF}: 14322.2/47$

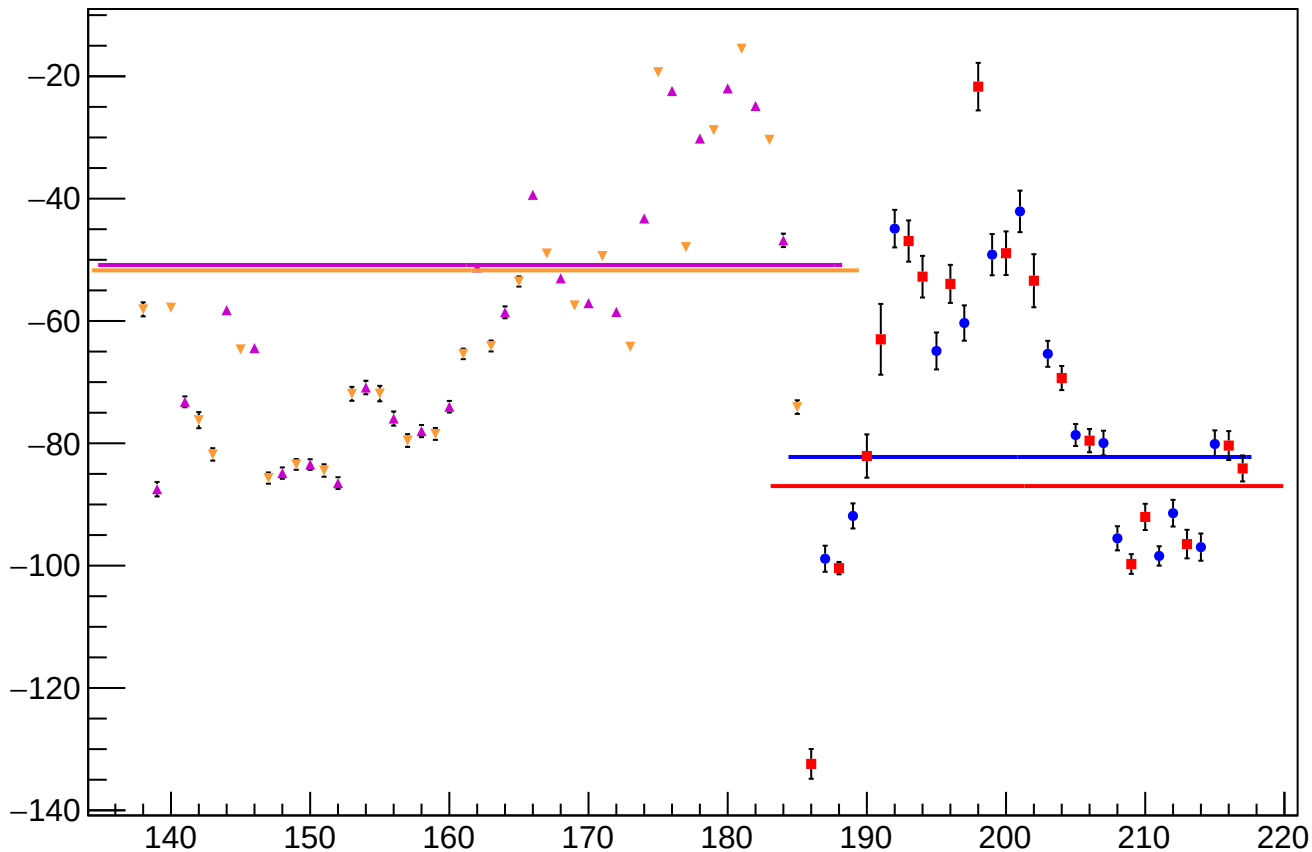
Right: 23.630 ± 0.613 $\chi^2/\text{NDF}: 634.1/31$

In: 3.681 ± 0.126 $\chi^2/\text{NDF}: 7034.3/37$

Out: 3.477 ± 0.123 $\chi^2/\text{NDF}: 9015.0/41$

All: 3.577 ± 0.088 $\chi^2/\text{NDF}: 16050.7/79$

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.236 ± 0.576 χ^2/NDF : 837.9/14

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -86.992 ± 0.538 χ^2/NDF : 1544.4/16

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

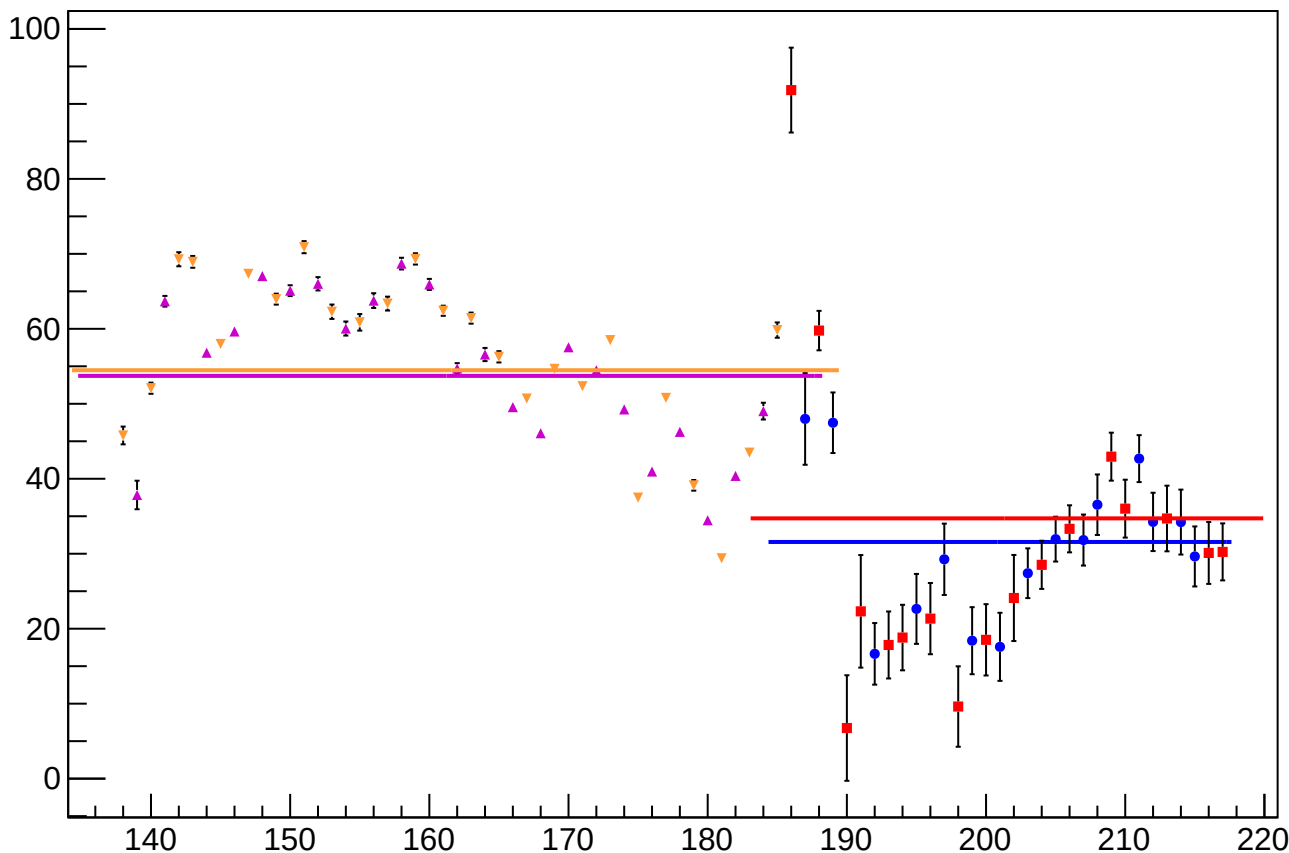
Right: -84.775 ± 0.393 χ^2/NDF : 2418.7/31

In: -53.096 ± 0.154 χ^2/NDF : 20868.0/37

Out: -54.524 ± 0.152 χ^2/NDF : 25035.2/41

All: -53.823 ± 0.108 χ^2/NDF : 45946.8/79

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.570 $\pm$ 1.015 χ^2 /NDF: 74.8/14

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 34.718 $\pm$ 0.994 χ^2 /NDF: 296.7/16

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF:4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

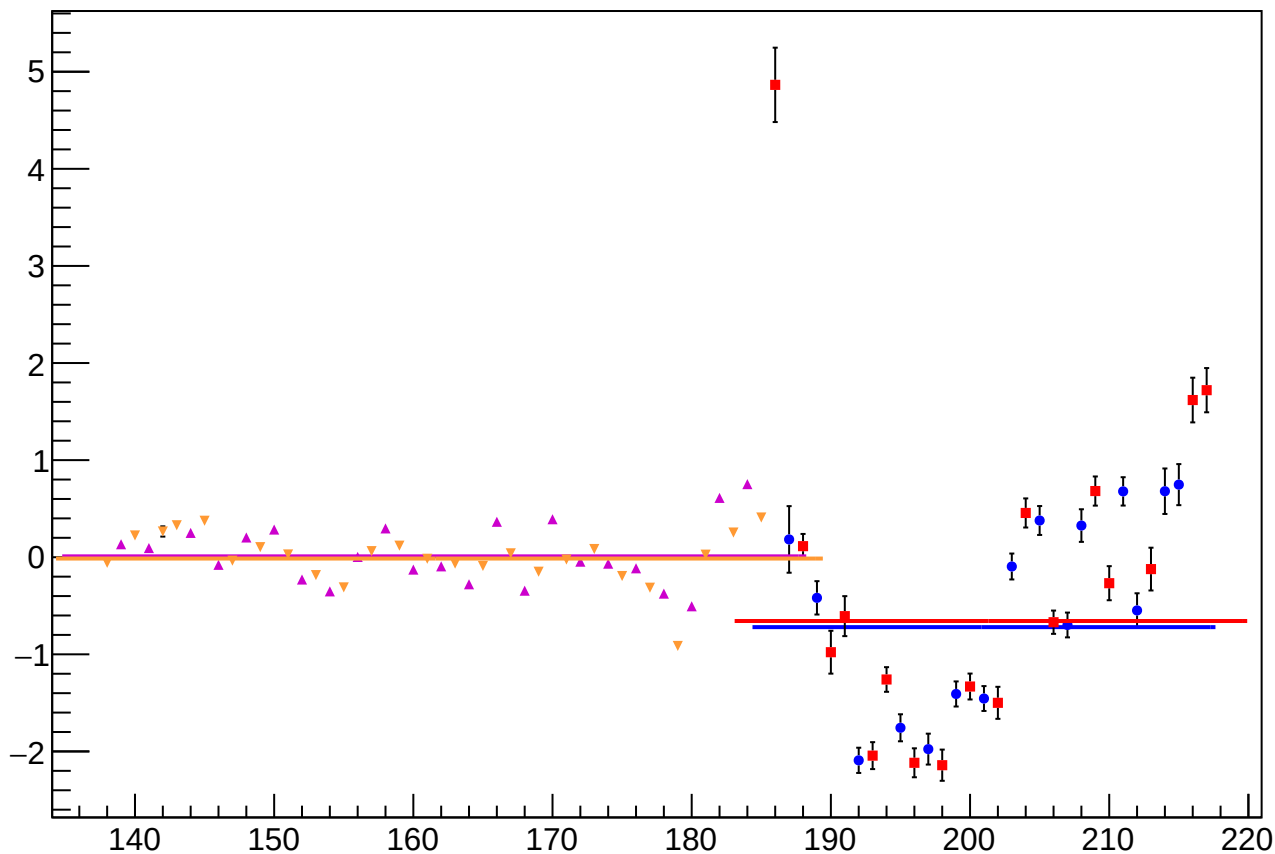
Right: 33.178 $\pm$ 0.710 χ^2 /NDF: 376.3/31

In: 53.292 $\pm$ 0.142 χ^2 /NDF:5127.3/37

Out: 54.090 $\pm$ 0.139 χ^2 /NDF:6951.2/41

All: 53.699 $\pm$ 0.099 χ^2 /NDF: 12094.7/79

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.720 ± 0.040 χ^2/NDF : 592.3/14

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.657 ± 0.039 χ^2/NDF : 955.1/16

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

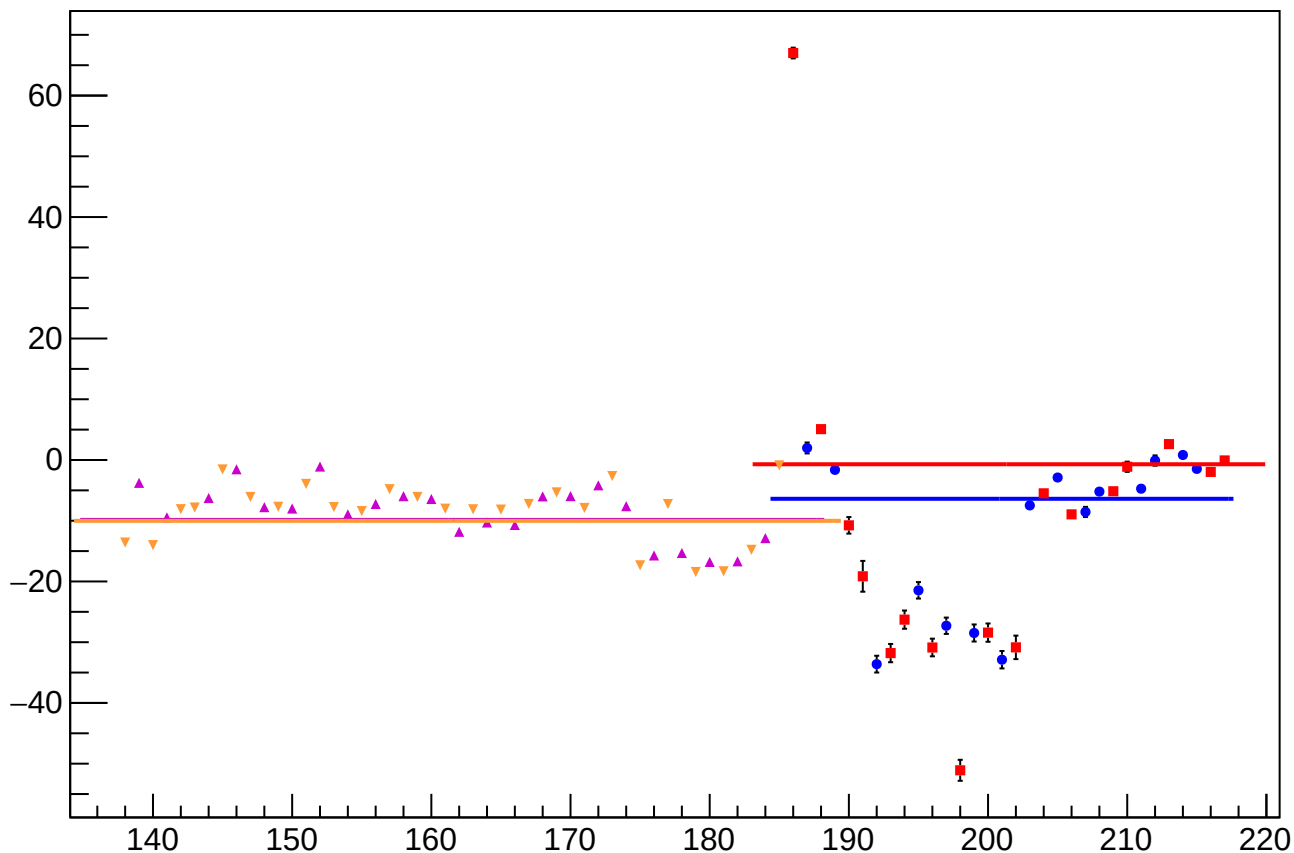
Right: -0.688 ± 0.028 χ^2/NDF : 1548.7/31

In: -0.010 ± 0.006 χ^2/NDF : 3139.4/37

Out: -0.031 ± 0.006 χ^2/NDF : 2873.5/41

All: -0.021 ± 0.005 χ^2/NDF : 6018.0/79

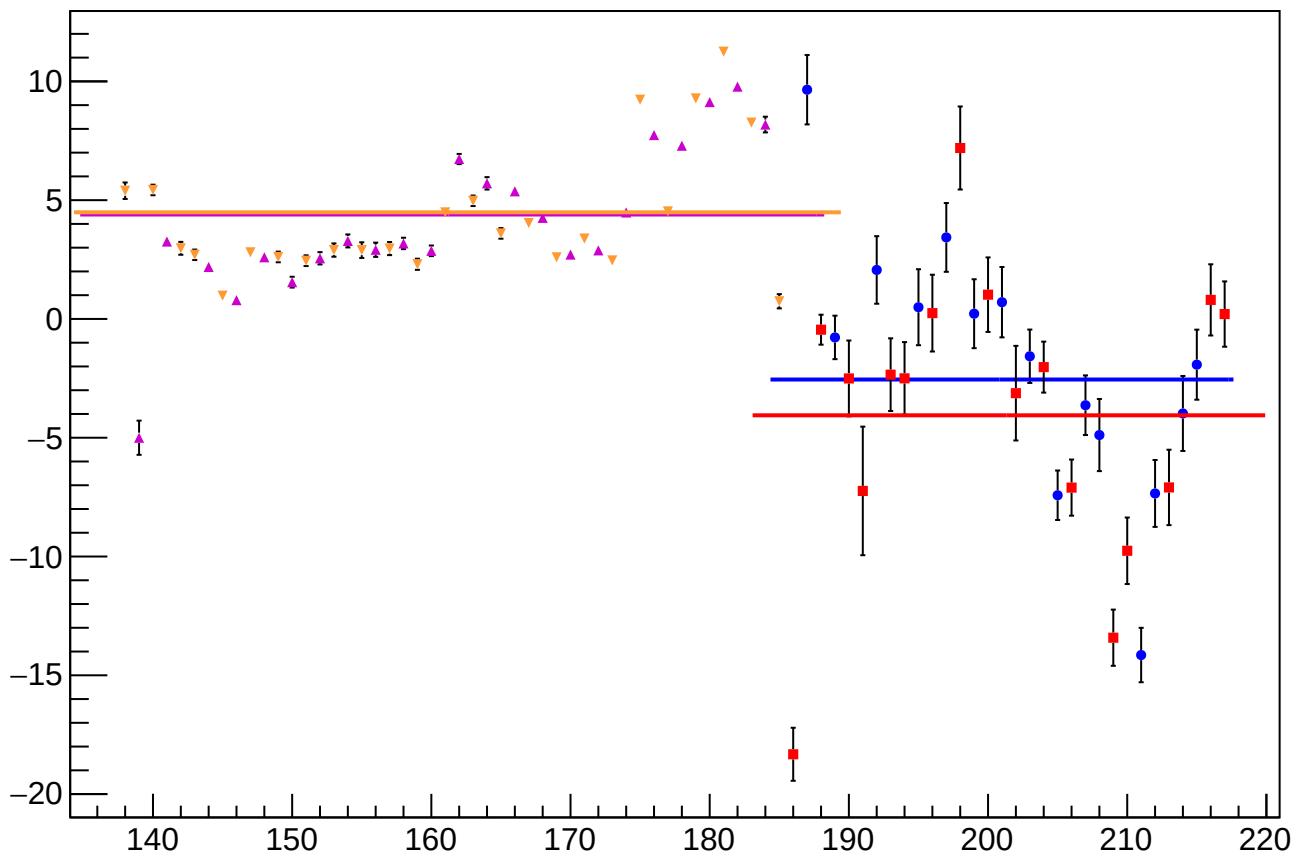
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.388 ± 0.222 $\chi^2/\text{NDF}: 1702.3/14$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.702 ± 0.212 $\chi^2/\text{NDF}: 8936.7/16$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -3.409 ± 0.153 $\chi^2/\text{NDF}: 10982.9/31$
 In: -9.689 ± 0.050 $\chi^2/\text{NDF}: 11280.5/37$
 Out: -9.512 ± 0.049 $\chi^2/\text{NDF}: 23322.6/41$
 All: -9.599 ± 0.035 $\chi^2/\text{NDF}: 34609.4/79$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.549 ± 0.336 χ^2/NDF : 254.2/14

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.056 ± 0.312 χ^2/NDF : 373.1/16

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

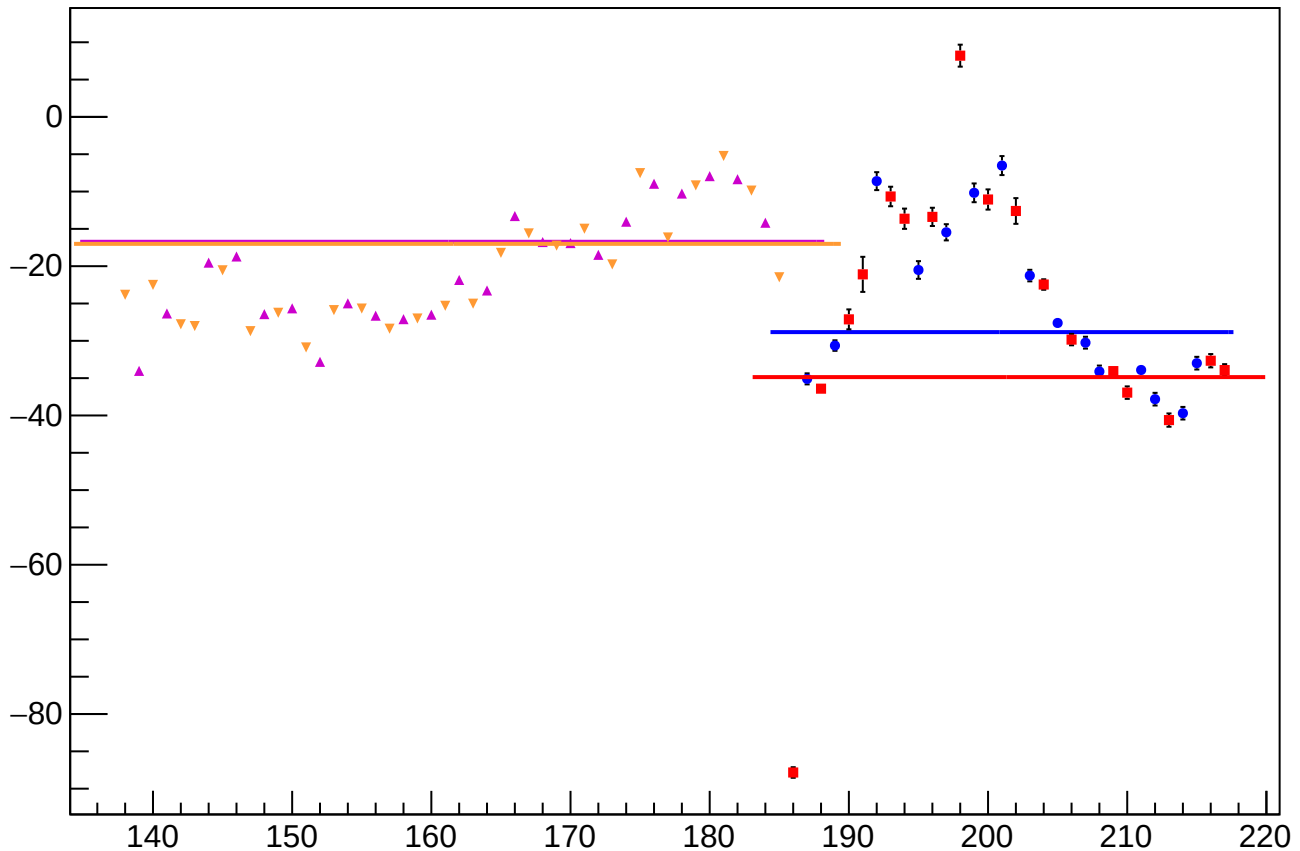
Right: -3.357 ± 0.229 χ^2/NDF : 638.1/31

In: 4.293 ± 0.041 χ^2/NDF : 4906.1/37

Out: 4.346 ± 0.040 χ^2/NDF : 5941.6/41

All: 4.320 ± 0.029 χ^2/NDF : 10848.6/79

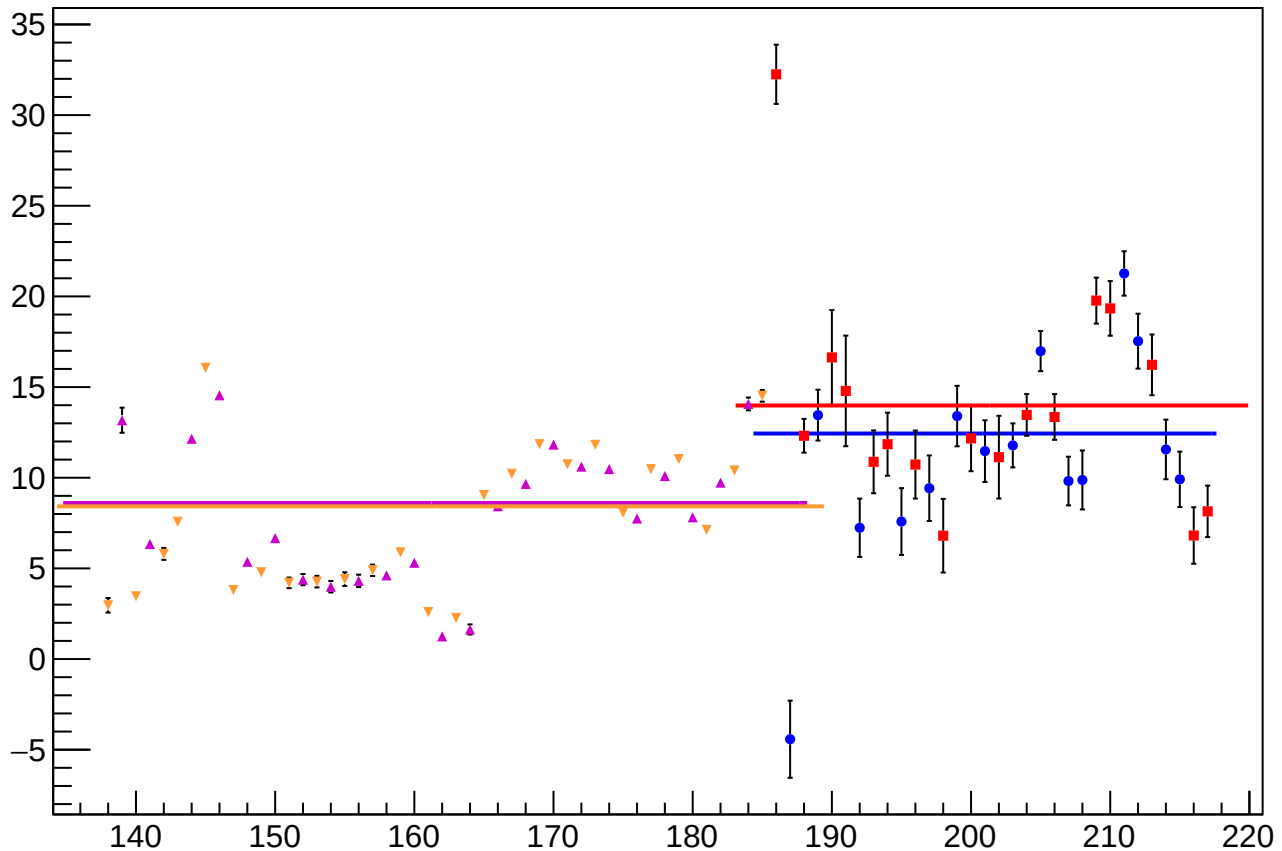
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.832 ± 0.217 $\chi^2/\text{NDF}: 1605.0/14$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.860 ± 0.199 $\chi^2/\text{NDF}: 8275.1/16$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$
 Right: -32.111 ± 0.147 $\chi^2/\text{NDF}: 10299.4/31$
 In: -17.377 ± 0.050 $\chi^2/\text{NDF}: 23322.0/37$
 Out: -18.113 ± 0.049 $\chi^2/\text{NDF}: 37935.3/41$
 All: -17.750 ± 0.035 $\chi^2/\text{NDF}: 61366.7/79$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.438 $\pm$ 0.385 χ^2 /NDF: 173.9/14

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 13.984 $\pm$ 0.373 χ^2 /NDF: 225.7/16

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

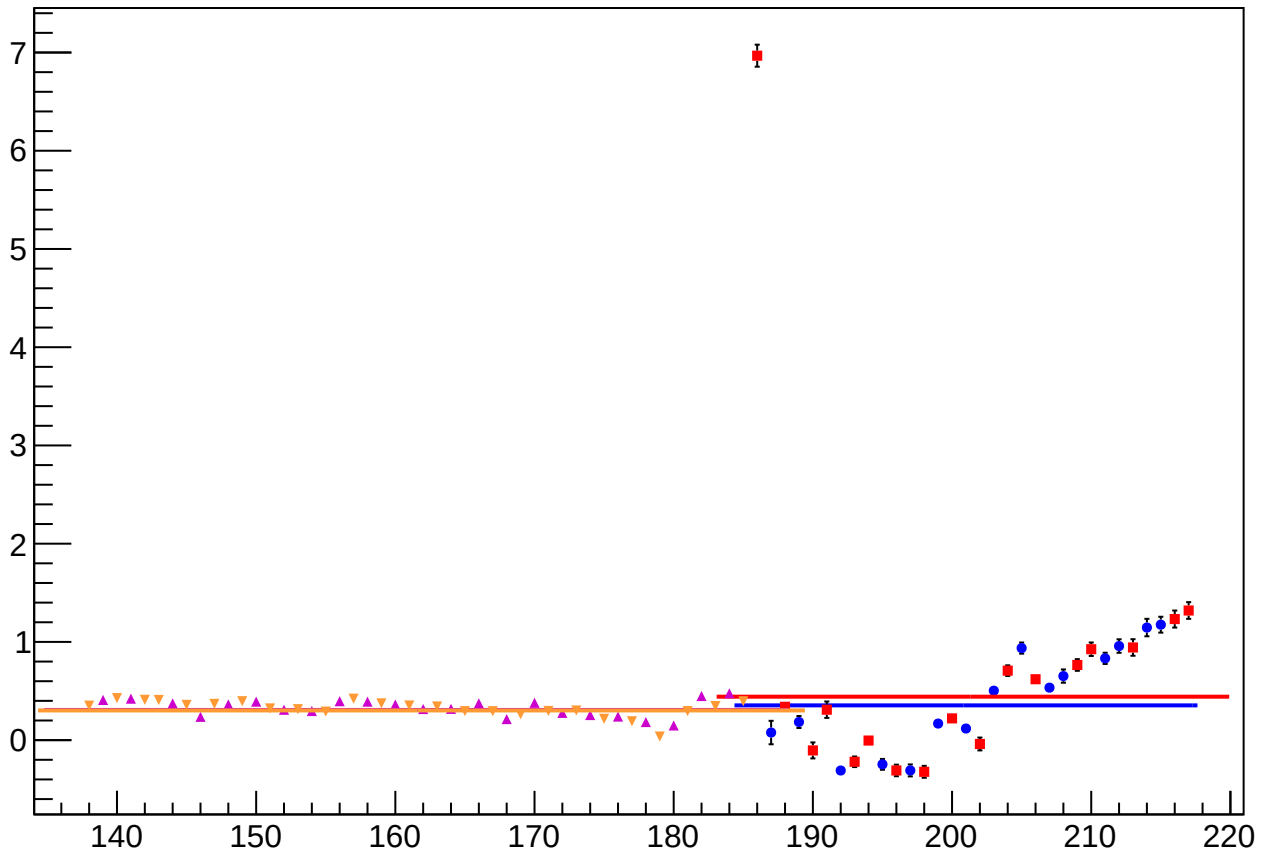
Right: 13.234 $\pm$ 0.268 χ^2 /NDF: 407.9/31

In: 8.661 $\pm$ 0.046 χ^2 /NDF: 5775.9/37

Out: 8.504 $\pm$ 0.045 χ^2 /NDF: 6914.7/41

All: 8.581 $\pm$ 0.032 χ^2 /NDF: 12696.5/79

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.354 $\pm$ 0.015 χ^2 /NDF: 935.8/14

Left Out: 0.302 $\pm$ 0.002 χ^2 /NDF:1590.9/24

Right Out: 0.442 $\pm$ 0.015 χ^2 /NDF: 4400.1/16

Left In: 0.307 $\pm$ 0.002 χ^2 /NDF:1699.5/22

Left: 0.305 $\pm$ 0.001 χ^2 /NDF: 3293.0/47

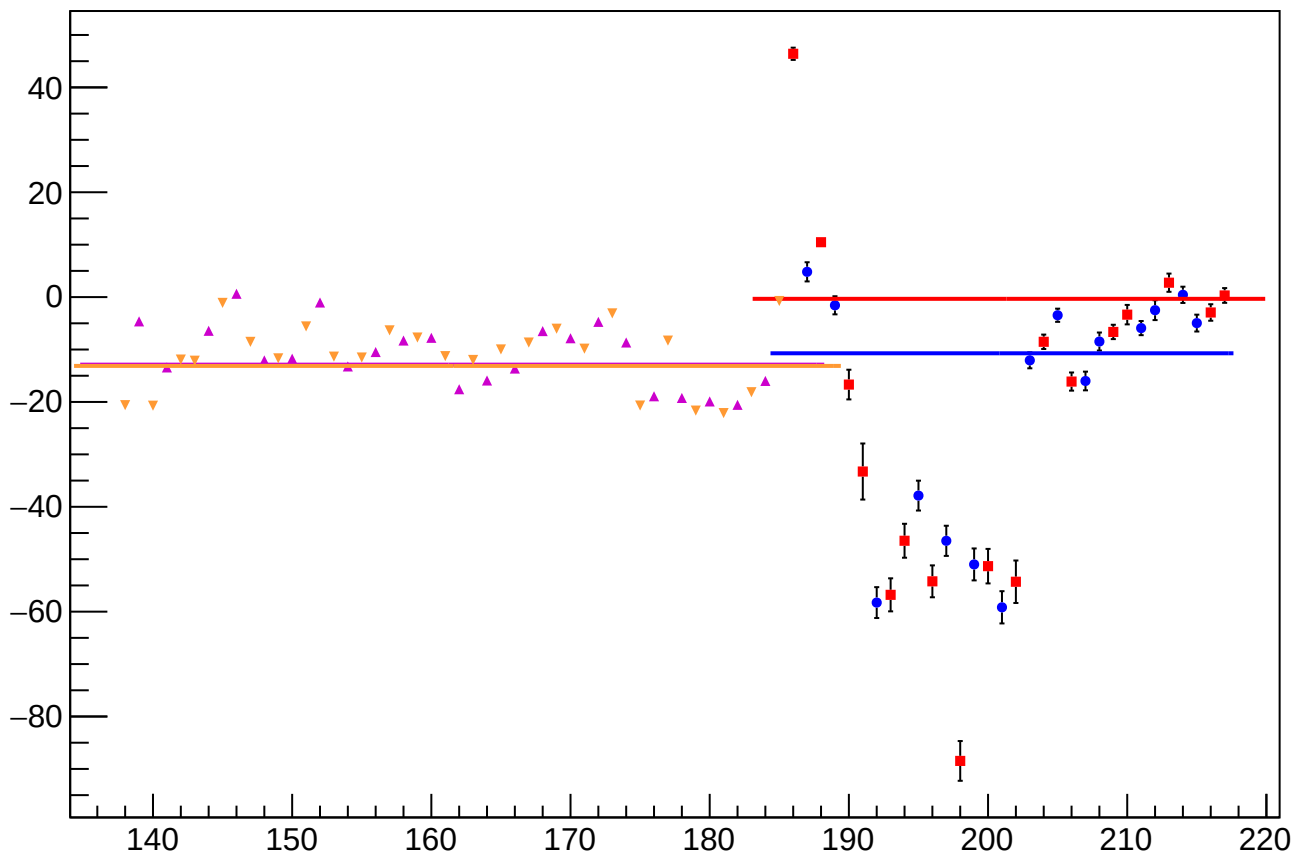
Right: 0.399 $\pm$ 0.011 χ^2 /NDF: 5353.1/31

In: 0.308 $\pm$ 0.002 χ^2 /NDF:2644.6/37

Out: 0.305 $\pm$ 0.002 χ^2 /NDF:6076.9/41

All: 0.307 $\pm$ 0.001 χ^2 /NDF: 8722.5/79

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.717 ± 0.469 $\chi^2/\text{NDF}: 1170.4/14$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.330 ± 0.426 $\chi^2/\text{NDF}: 3755.4/16$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

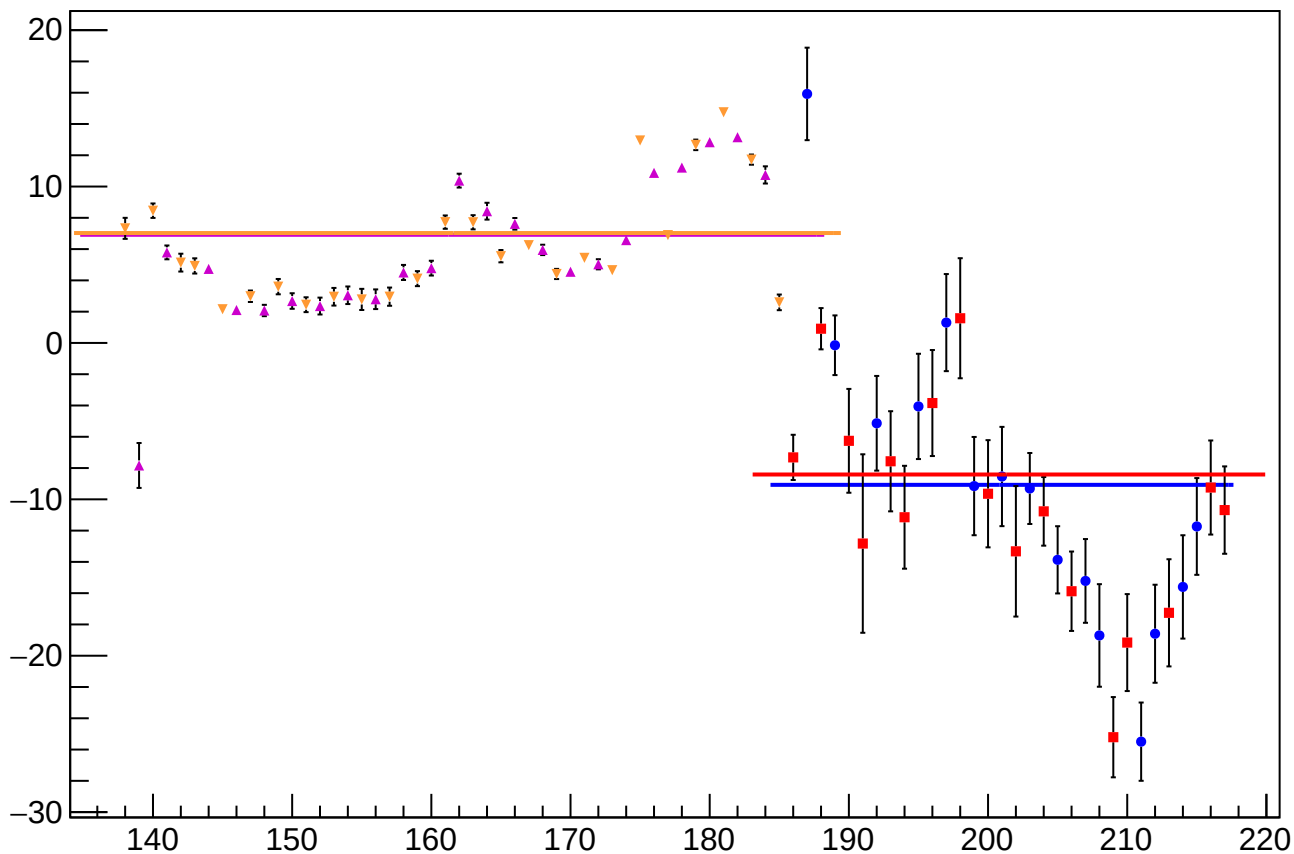
Right: -5.036 ± 0.315 $\chi^2/\text{NDF}: 5194.7/31$

In: -12.800 ± 0.093 $\chi^2/\text{NDF}: 5967.1/37$

Out: -12.536 ± 0.091 $\chi^2/\text{NDF}: 10592.0/41$

All: -12.665 ± 0.065 $\chi^2/\text{NDF}: 16563.2/79$

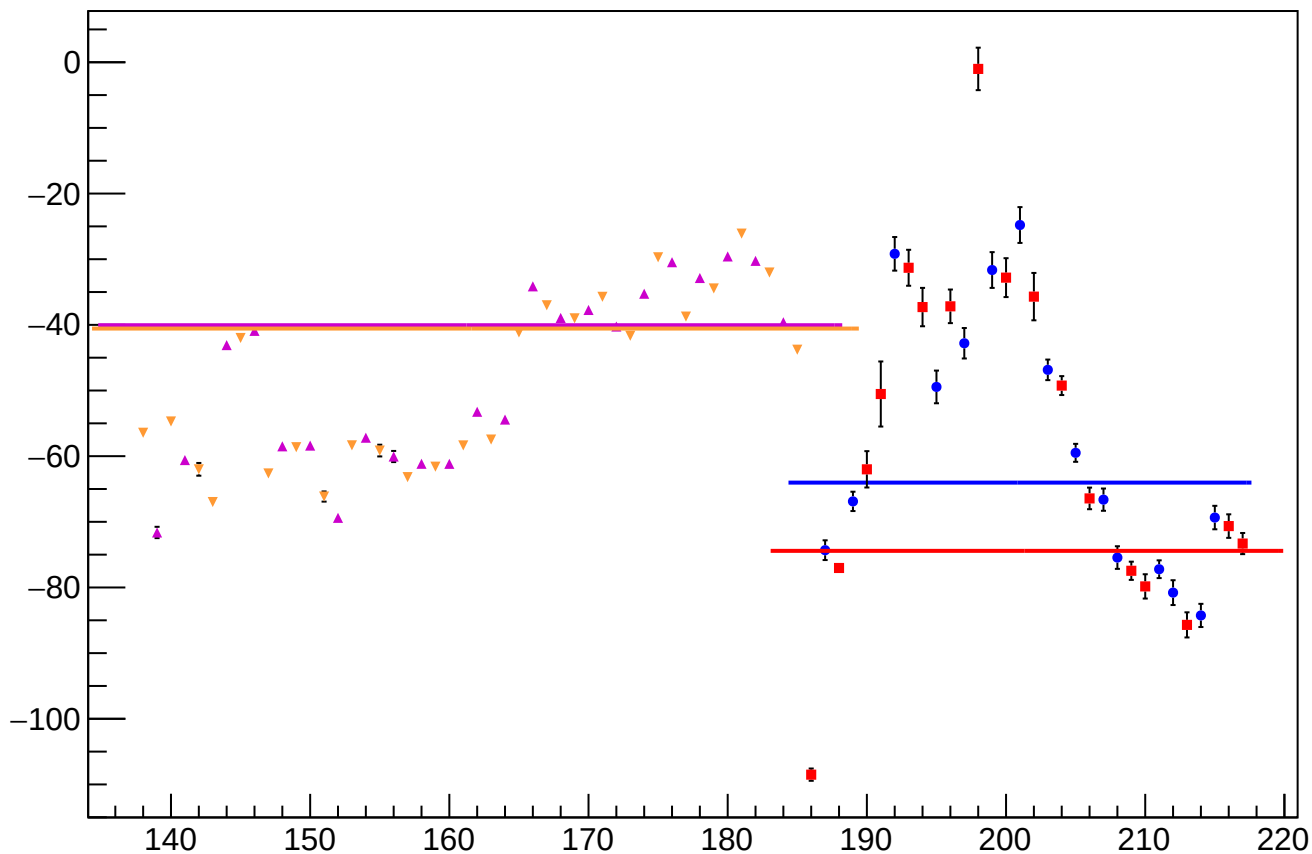
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.074 ± 0.709 χ^2/NDF : 184.3/14
 Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24
 Right Out: -8.412 ± 0.620 χ^2/NDF : 134.4/16
 Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47
 Right: -8.699 ± 0.466 χ^2/NDF : 319.2/31
 In: 6.724 ± 0.077 χ^2/NDF : 3115.5/37
 Out: 6.792 ± 0.077 χ^2/NDF : 3411.2/41
 All: 6.758 ± 0.054 χ^2/NDF : 6527.1/79

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.028 ± 0.458 $\chi^2/\text{NDF}: 1193.4/14$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -74.422 ± 0.395 $\chi^2/\text{NDF}: 3213.1/16$
 Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

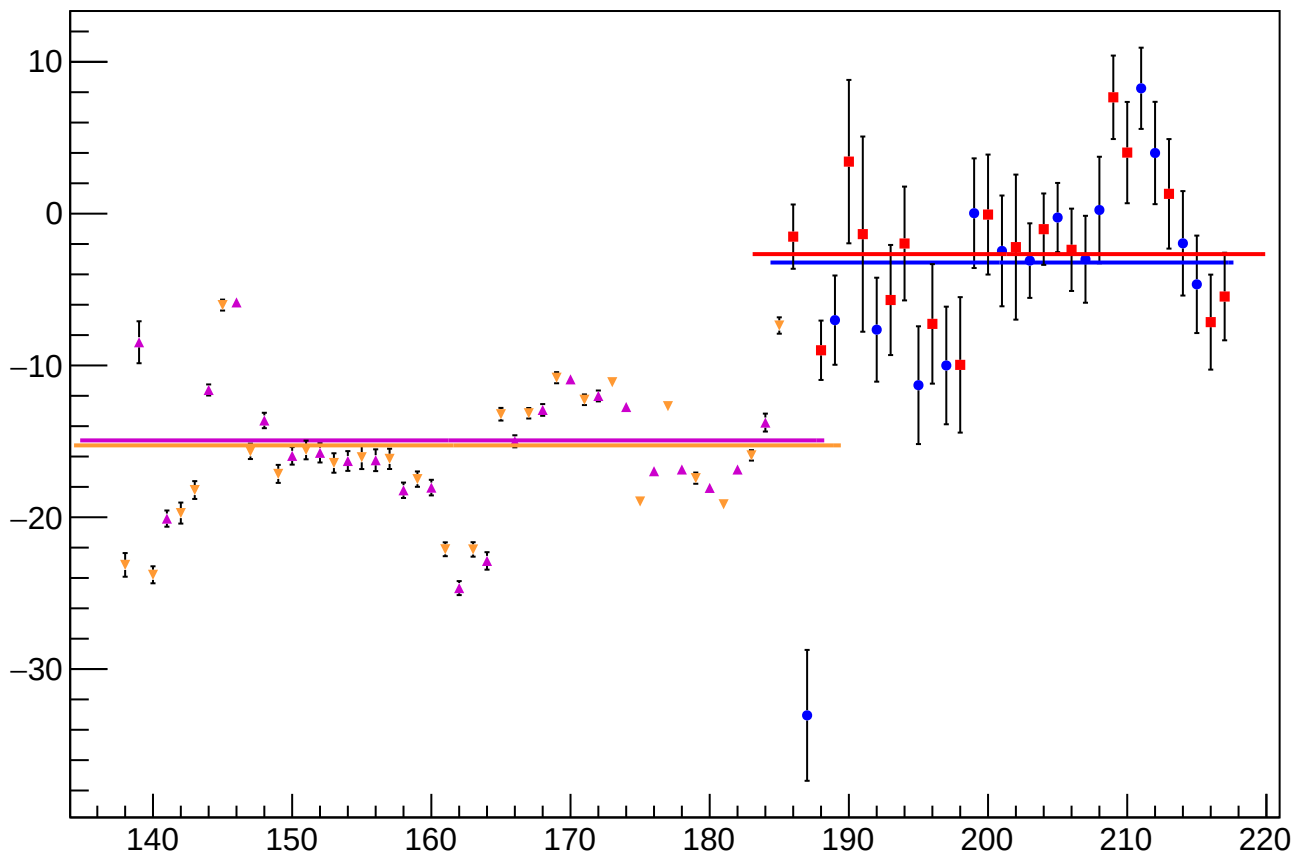
Right: -69.992 ± 0.299 $\chi^2/\text{NDF}: 4701.6/31$

In: -41.054 ± 0.094 $\chi^2/\text{NDF}: 17742.1/37$

Out: -42.403 ± 0.092 $\chi^2/\text{NDF}: 25795.9/41$

All: -41.740 ± 0.066 $\chi^2/\text{NDF}: 43643.6/79$

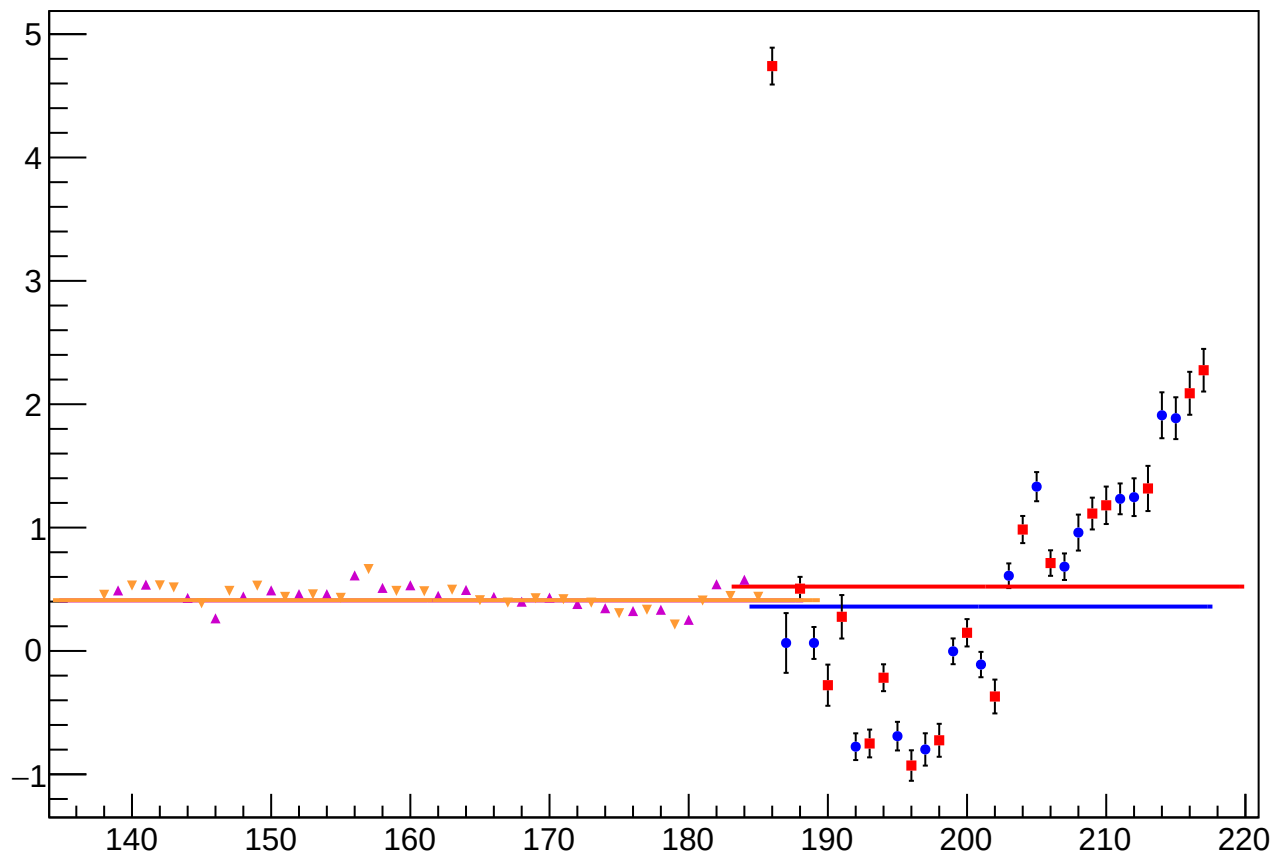
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.219 ± 0.814 $\chi^2/\text{NDF}: 85.4/14$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.665 ± 0.756 $\chi^2/\text{NDF}: 40.2/16$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -2.922 ± 0.554 $\chi^2/\text{NDF}: 125.9/31$
 In: -14.804 ± 0.086 $\chi^2/\text{NDF}: 2490.2/37$
 Out: -15.105 ± 0.085 $\chi^2/\text{NDF}: 2910.1/41$
 All: -14.956 ± 0.061 $\chi^2/\text{NDF}: 5406.4/79$

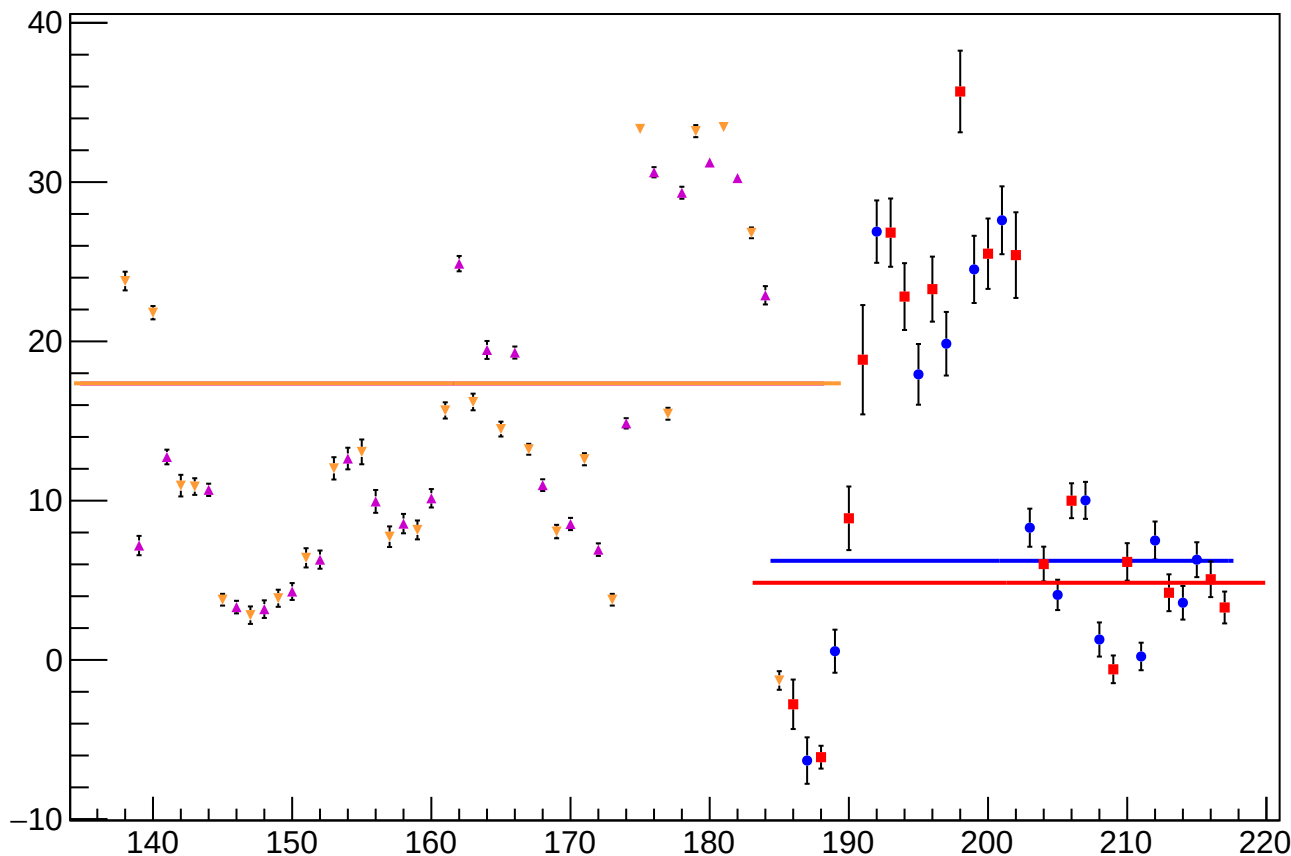
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.360 ± 0.032 $\chi^2/\text{NDF}: 642.6/14$
 Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$
 Right Out: 0.522 ± 0.031 $\chi^2/\text{NDF}: 1538.3/16$
 Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$
 Right: 0.443 ± 0.023 $\chi^2/\text{NDF}: 2193.9/31$
 In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 1202.8/37$
 Out: 0.413 ± 0.004 $\chi^2/\text{NDF}: 1979.2/41$
 All: 0.411 ± 0.003 $\chi^2/\text{NDF}: 3182.6/79$

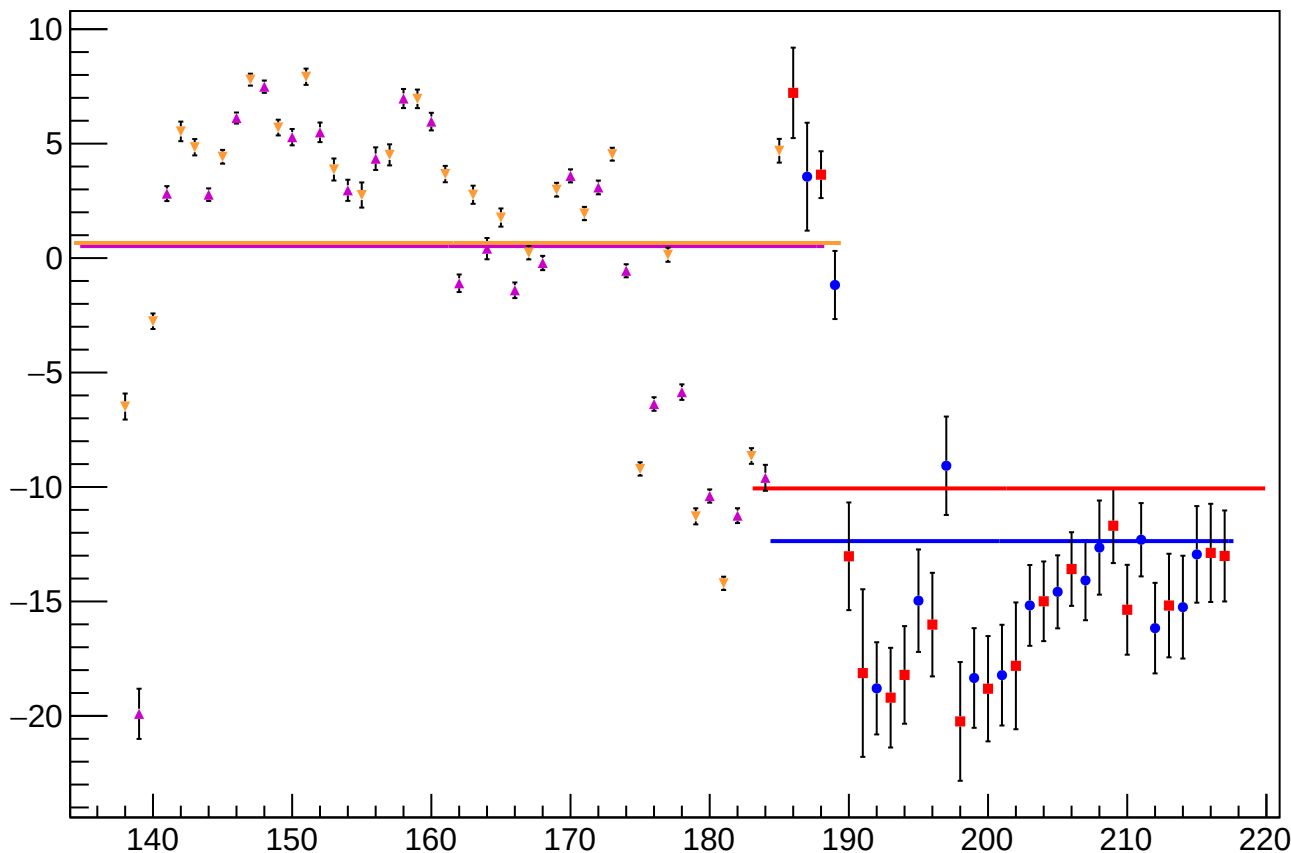
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.224 $\pm$ 0.326 χ^2 /NDF: 558.7/14
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 4.844 $\pm$ 0.314 χ^2 /NDF: 895.6/16
 Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47
 Right: 5.509 $\pm$ 0.226 χ^2 /NDF: 1463.5/31
 In: 16.583 $\pm$ 0.086 χ^2 /NDF:14391.6/37
 Out: 16.473 $\pm$ 0.084 χ^2 /NDF:18708.9/41
 All: 16.527 $\pm$ 0.060 χ^2 /NDF: 33101.3/79

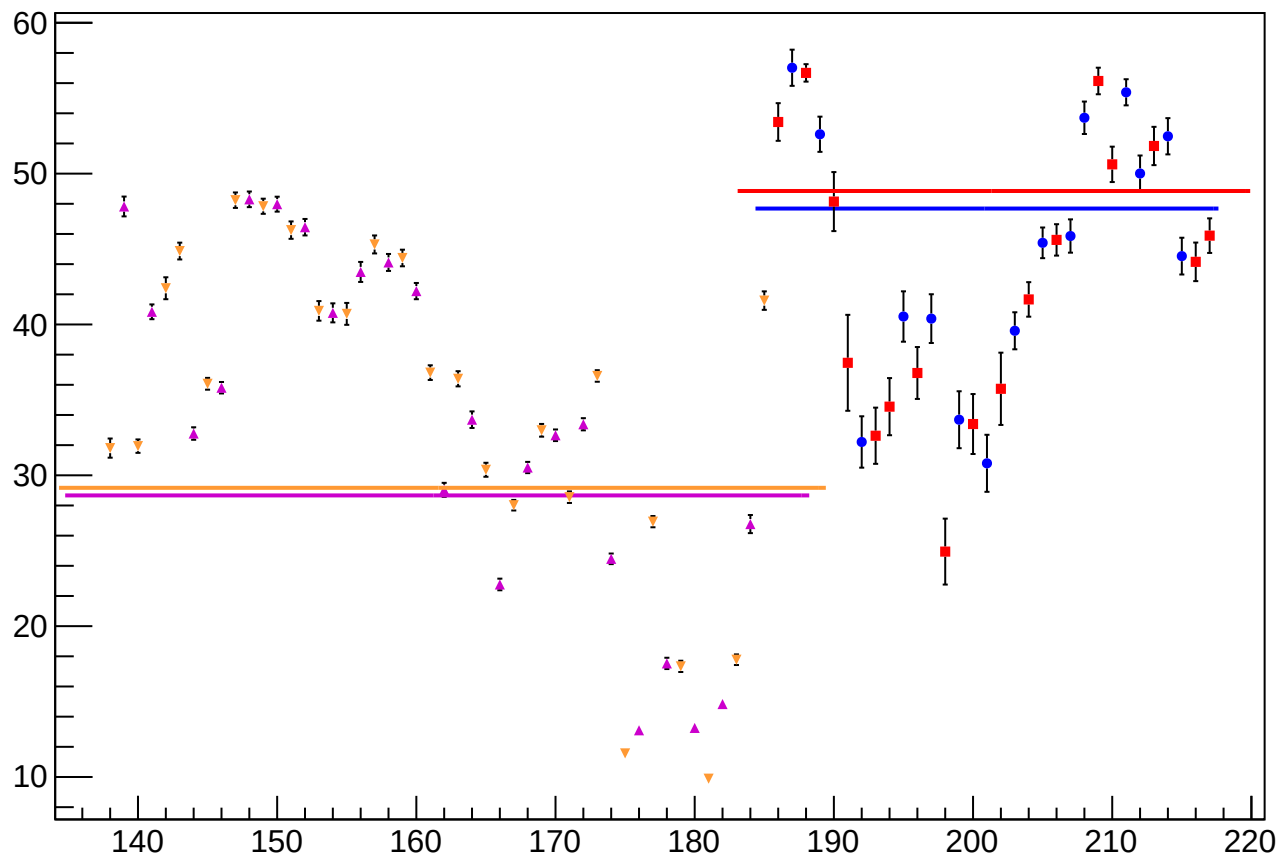
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.364 ± 0.496 χ^2/NDF : 141.6/14
 Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24
 Right Out: -10.063 ± 0.467 χ^2/NDF : 369.5/16
 Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47
 Right: -11.144 ± 0.340 χ^2/NDF : 522.5/31
 In: 0.267 ± 0.070 χ^2/NDF : 7532.0/37
 Out: 0.430 ± 0.069 χ^2/NDF : 9438.7/41
 All: 0.350 ± 0.049 χ^2/NDF : 16973.5/79

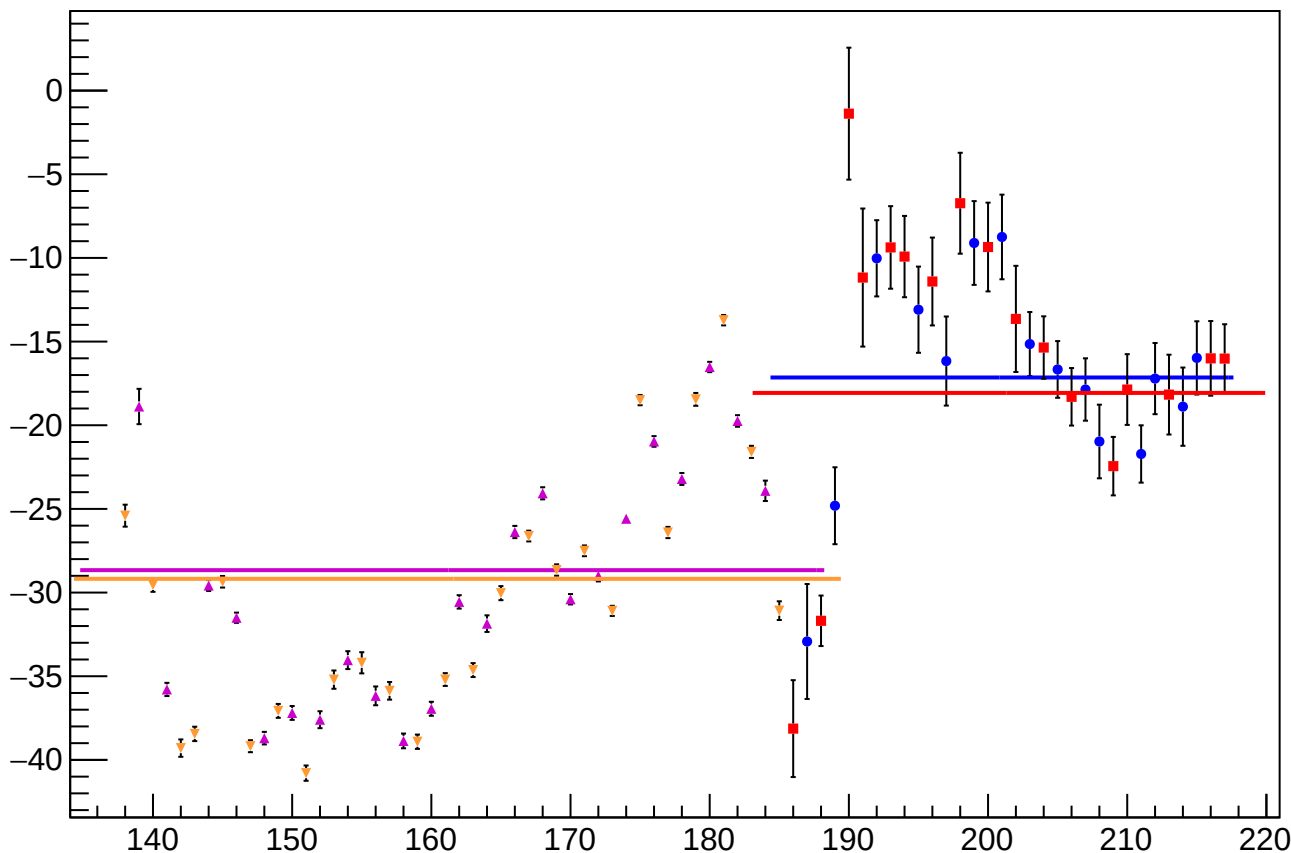
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.685 $\pm$ 0.320 χ^2 /NDF: 522.8/14
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF: 18974.7/24
 Right Out: 48.849 $\pm$ 0.298 χ^2 /NDF: 747.2/16
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF: 16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 48.306 $\pm$ 0.218 χ^2 /NDF: 1277.1/31
 In: 30.040 $\pm$ 0.086 χ^2 /NDF: 20656.9/37
 Out: 30.738 $\pm$ 0.084 χ^2 /NDF: 23722.4/41
 All: 30.396 $\pm$ 0.060 χ^2 /NDF: 44413.0/79

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



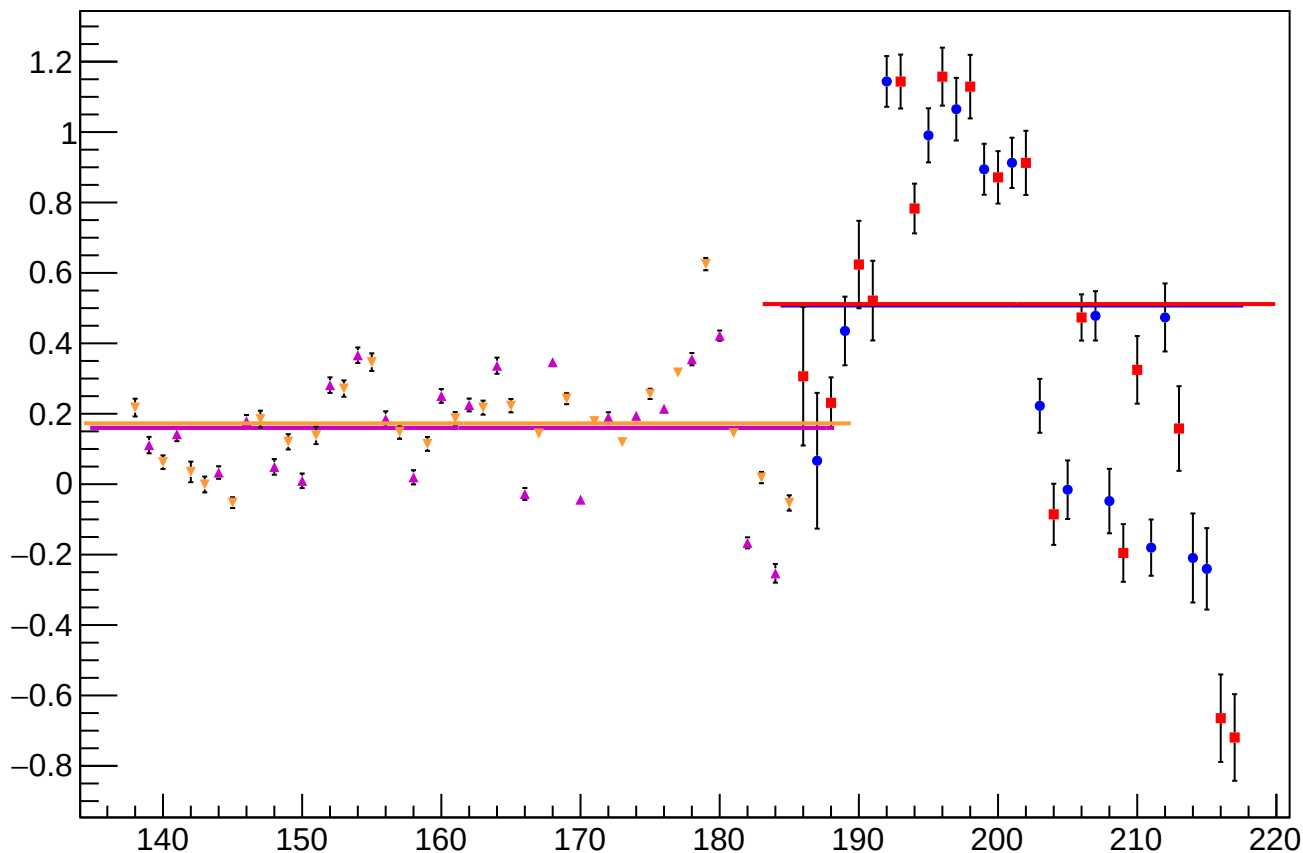
Right In: -17.146 ± 0.564 $\chi^2/\text{NDF}: 78.3/14$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.068 ± 0.550 $\chi^2/\text{NDF}: 217.4/16$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.618 ± 0.394 $\chi^2/\text{NDF}: 297.1/31$

In: -28.434 ± 0.079 $\chi^2/\text{NDF}: 7157.0/37$
 Out: -28.958 ± 0.077 $\chi^2/\text{NDF}: 9698.5/41$

All: -28.702 ± 0.055 $\chi^2/\text{NDF}: 16877.9/79$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.508 ± 0.022 χ^2/NDF : 462.2/14

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.512 ± 0.022 χ^2/NDF : 574.9/16

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

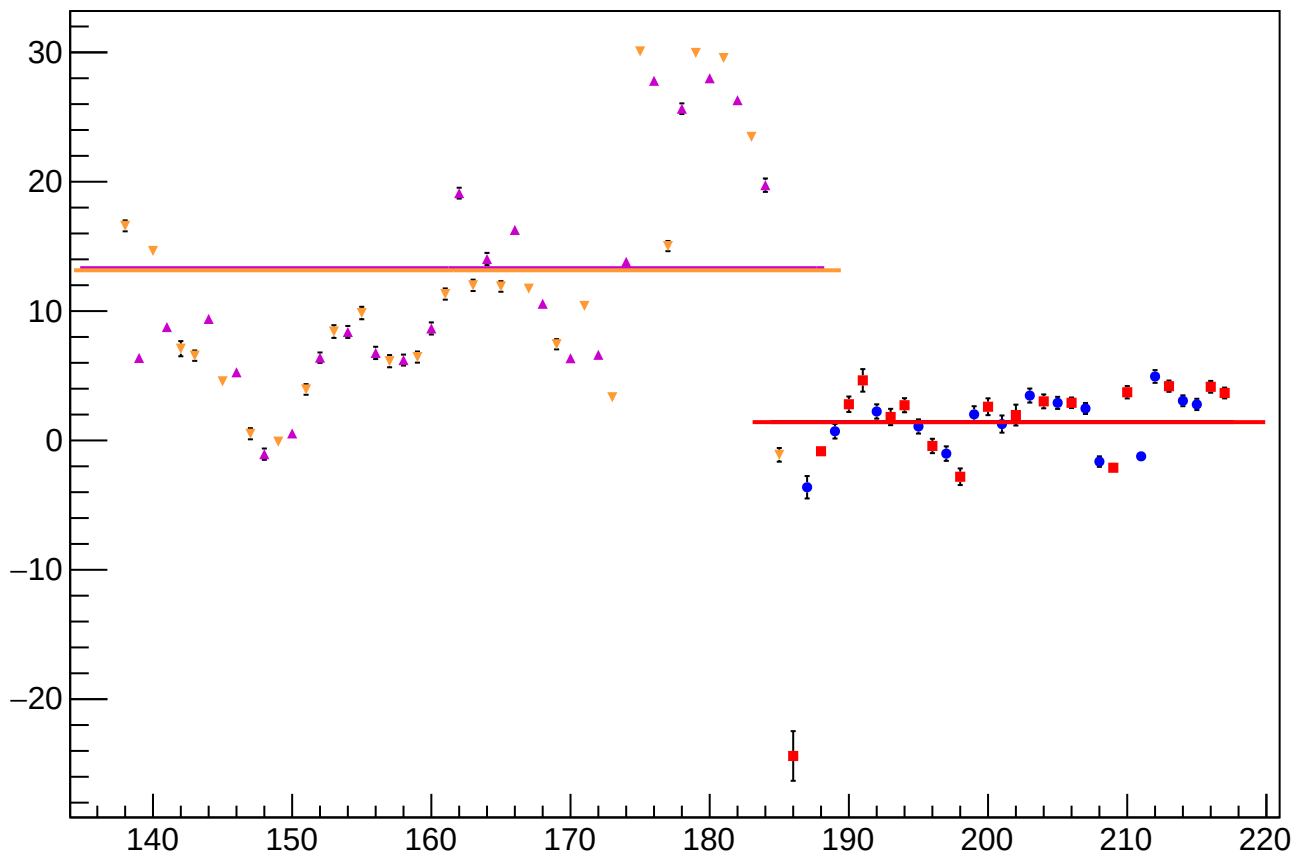
Right: 0.510 ± 0.015 χ^2/NDF : 1037.2/31

In: 0.169 ± 0.004 χ^2/NDF : 2761.5/37

Out: 0.182 ± 0.004 χ^2/NDF : 2290.6/41

All: 0.176 ± 0.003 χ^2/NDF : 5058.5/79

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.420 $\pm$ 0.129 χ^2 /NDF: 269.1/14

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 1.415 $\pm$ 0.119 χ^2 /NDF: 588.2/16

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

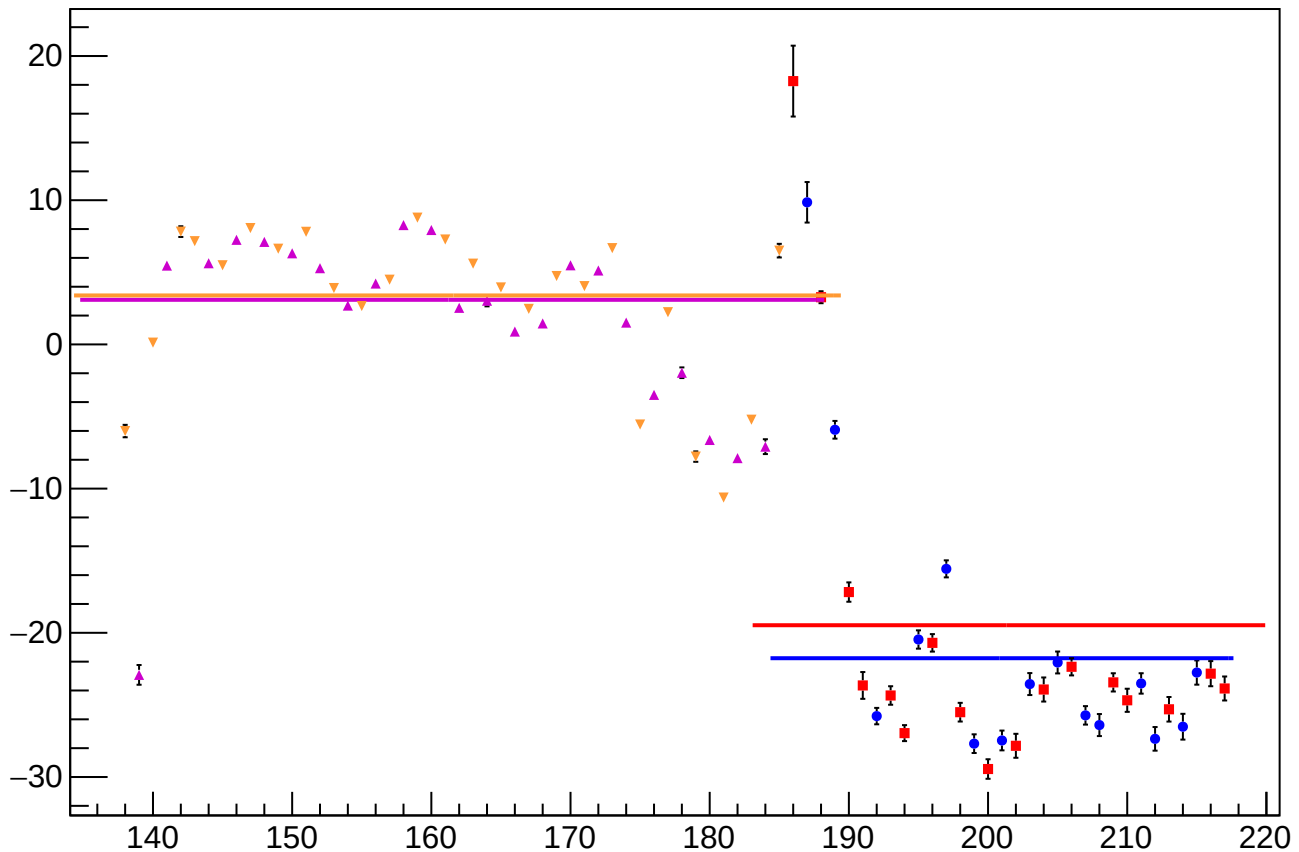
Right: 1.417 $\pm$ 0.087 χ^2 /NDF: 857.2/31

In: 10.169 $\pm$ 0.066 χ^2 /NDF:20540.1/37

Out: 9.796 $\pm$ 0.064 χ^2 /NDF:24633.4/41

All: 9.975 $\pm$ 0.046 χ^2 /NDF: 45190.1/79

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.762 ± 0.183 $\chi^2/\text{NDF}: 1651.6/14$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.474 ± 0.166 $\chi^2/\text{NDF}: 4151.7/16$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

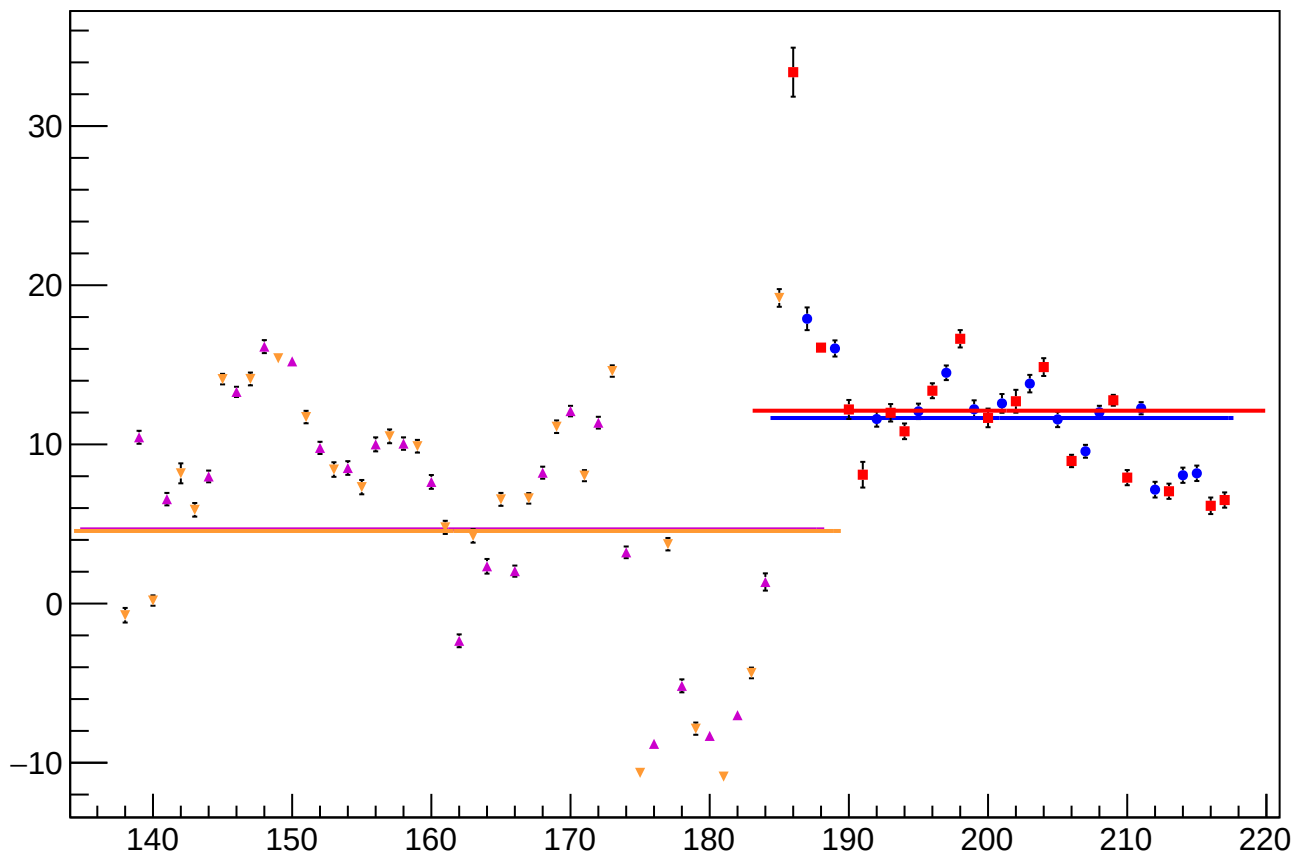
Right: -20.508 ± 0.123 $\chi^2/\text{NDF}: 5888.9/31$

In: 0.638 ± 0.058 $\chi^2/\text{NDF}: 25379.6/37$

Out: 0.884 ± 0.055 $\chi^2/\text{NDF}: 29111.2/41$

All: 0.766 ± 0.040 $\chi^2/\text{NDF}: 54500.3/79$

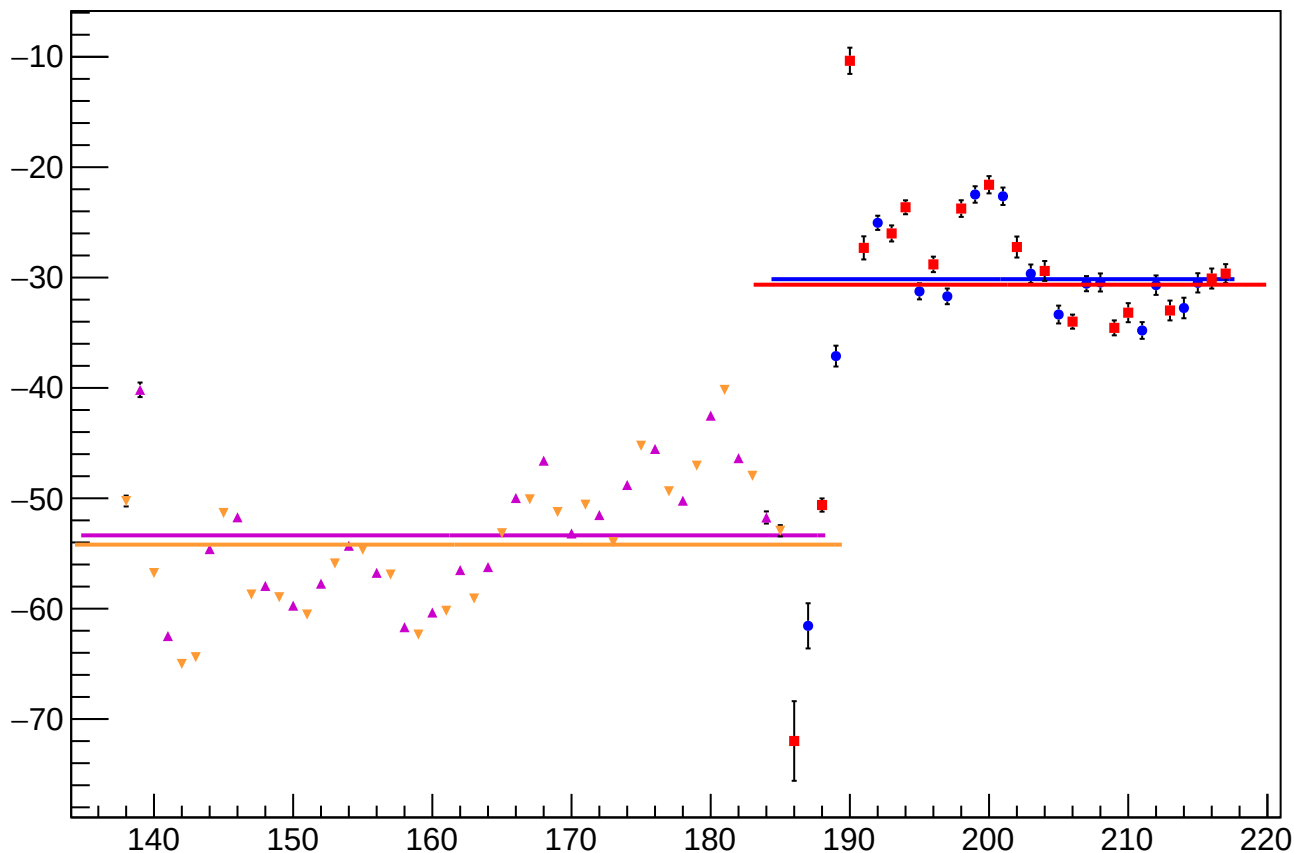
reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.658+/-0.125 χ^2/NDF : 429.4/14
 Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24
 Right Out: 12.117+/-0.112 χ^2/NDF : 1152.6/16
 Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47
 Right: 11.911+/-0.083 χ^2/NDF : 1589.5/31
 In: 6.589+/-0.065 χ^2/NDF :13995.3/37
 Out: 6.908+/-0.063 χ^2/NDF :17865.4/41
 All: 6.755+/-0.045 χ^2/NDF : 31873.2/79

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.146 ± 0.208 $\chi^2/\text{NDF}: 619.5/14$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.647 ± 0.194 $\chi^2/\text{NDF}: 2025.7/16$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

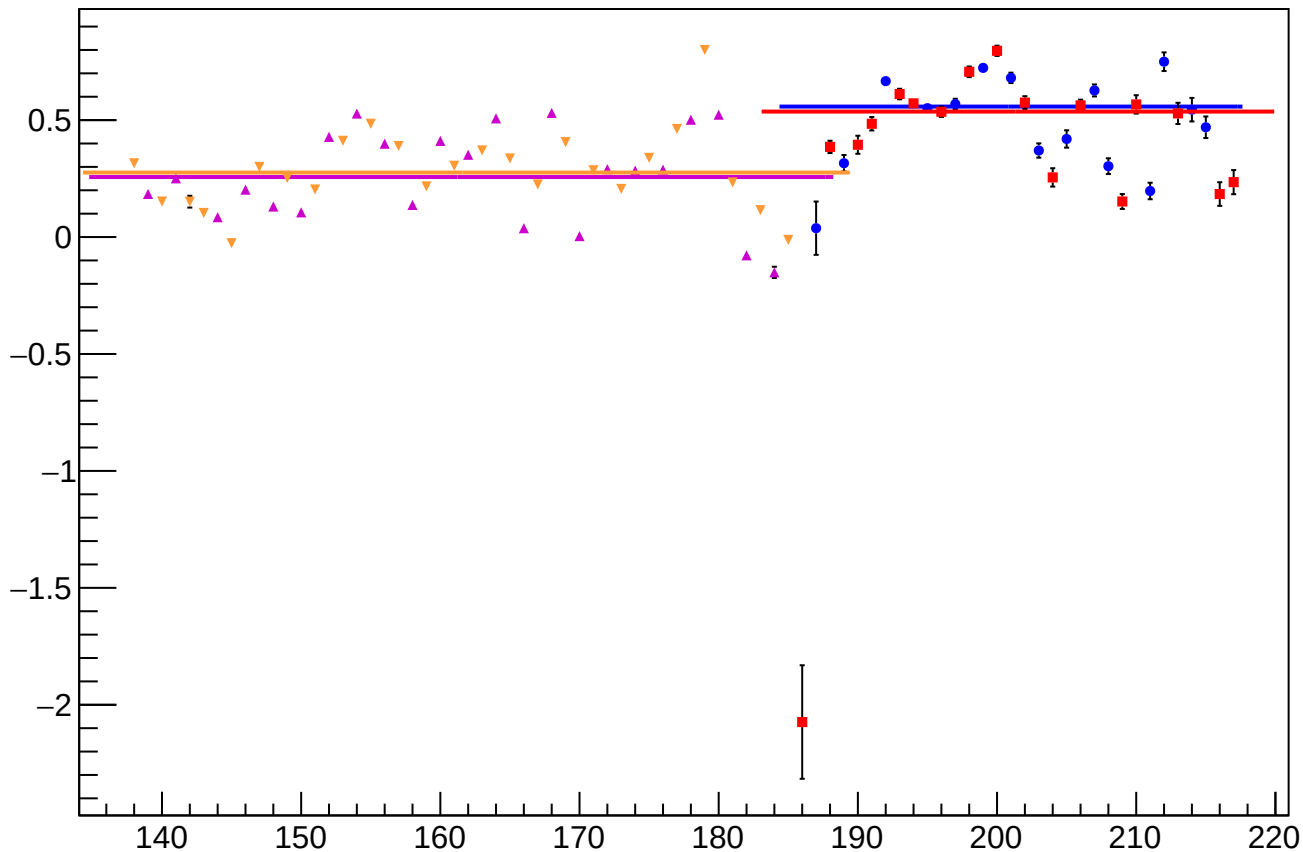
Right: -30.413 ± 0.142 $\chi^2/\text{NDF}: 2648.3/31$

In: -51.085 ± 0.065 $\chi^2/\text{NDF}: 18753.7/37$

Out: -51.741 ± 0.063 $\chi^2/\text{NDF}: 23615.9/41$

All: -51.424 ± 0.045 $\chi^2/\text{NDF}: 42422.1/79$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.558 ± 0.007 χ^2/NDF : 434.4/14

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.537 ± 0.007 χ^2/NDF : 661.1/16

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

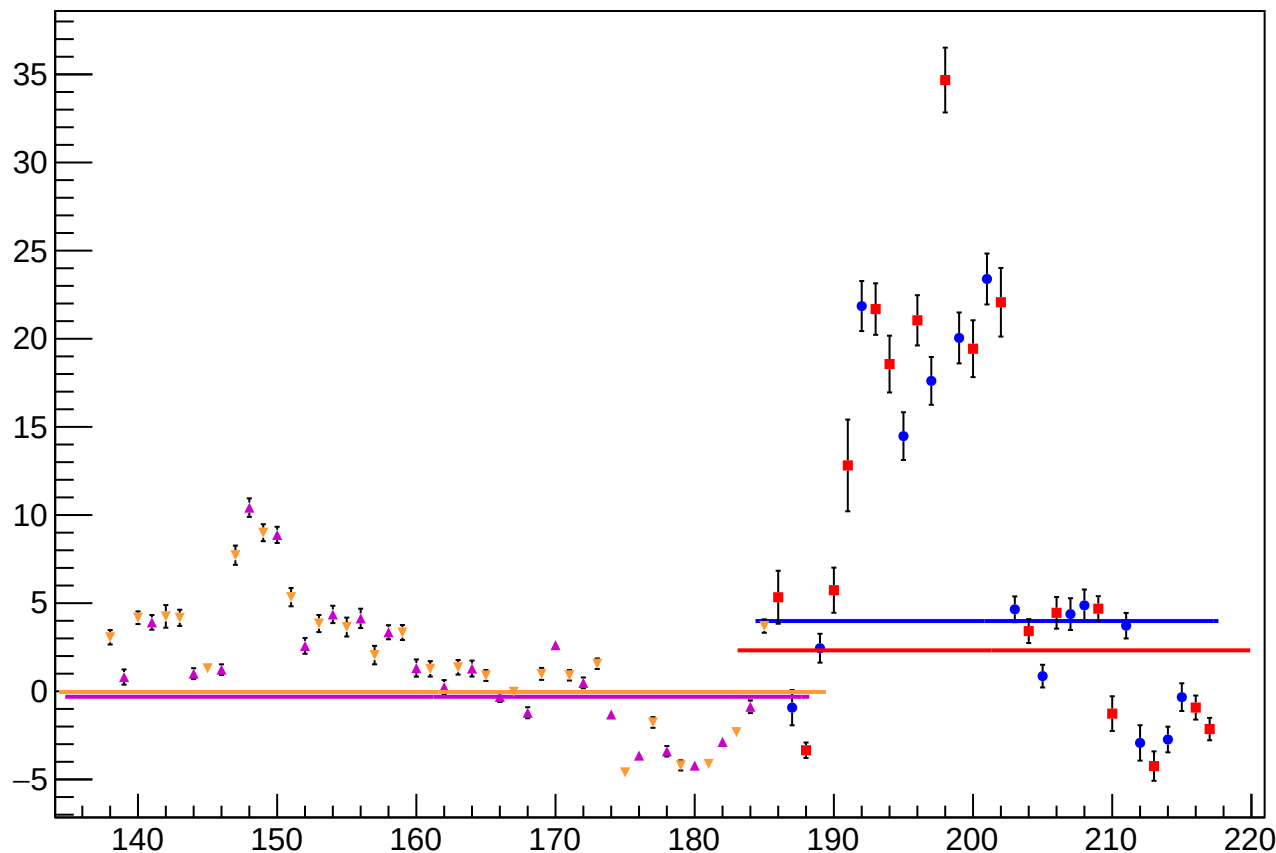
Right: 0.546 ± 0.005 χ^2/NDF : 1100.0/31

In: 0.301 ± 0.003 χ^2/NDF : 5453.4/37

Out: 0.318 ± 0.003 χ^2/NDF : 4475.8/41

All: 0.310 ± 0.002 χ^2/NDF : 9947.4/79

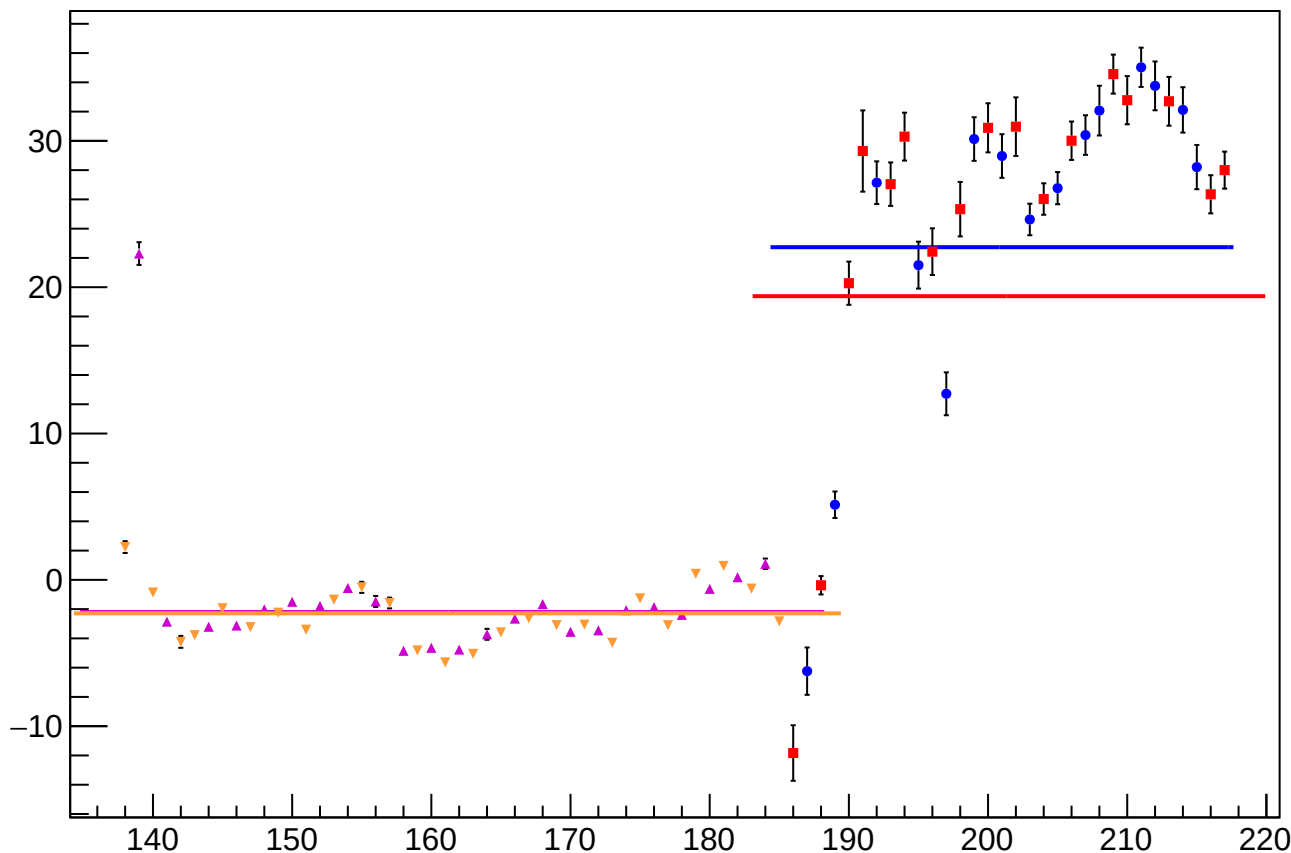
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.986 ± 0.234 $\chi^2/\text{NDF}: 839.9/14$
 Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$
 Right Out: 2.323 ± 0.217 $\chi^2/\text{NDF}: 1336.0/16$
 Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$
 Right: 3.092 ± 0.159 $\chi^2/\text{NDF}: 2203.0/31$
 In: 0.017 ± 0.065 $\chi^2/\text{NDF}: 3400.7/37$
 Out: 0.162 ± 0.063 $\chi^2/\text{NDF}: 4081.5/41$
 All: 0.091 ± 0.045 $\chi^2/\text{NDF}: 7484.7/79$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.734 ± 0.350 $\chi^2/\text{NDF}: 1053.5/14$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 19.385 ± 0.325 $\chi^2/\text{NDF}: 1877.4/16$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

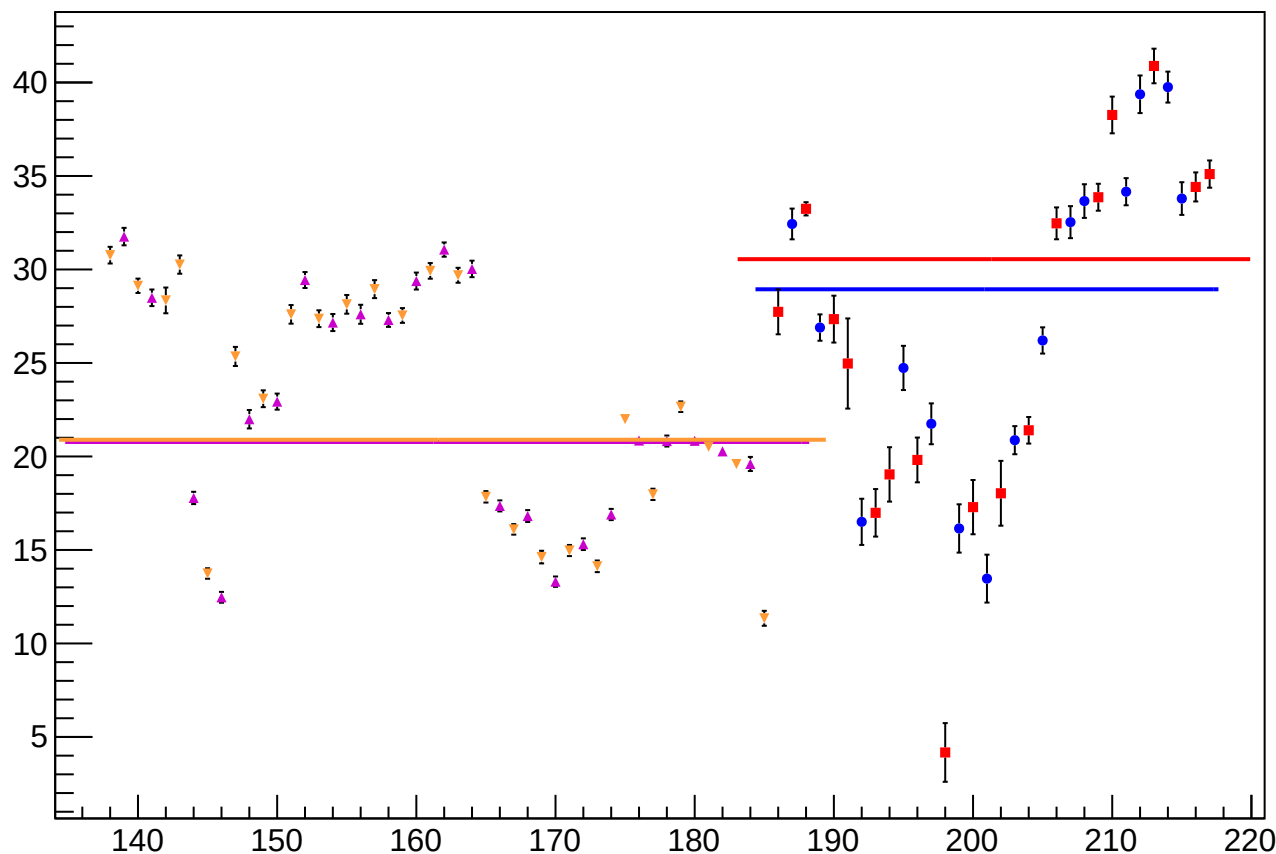
Right: 20.937 ± 0.238 $\chi^2/\text{NDF}: 2980.1/31$

In: -1.594 ± 0.054 $\chi^2/\text{NDF}: 7686.8/37$

Out: -1.703 ± 0.053 $\chi^2/\text{NDF}: 7341.7/41$

All: -1.650 ± 0.038 $\chi^2/\text{NDF}: 15030.5/79$

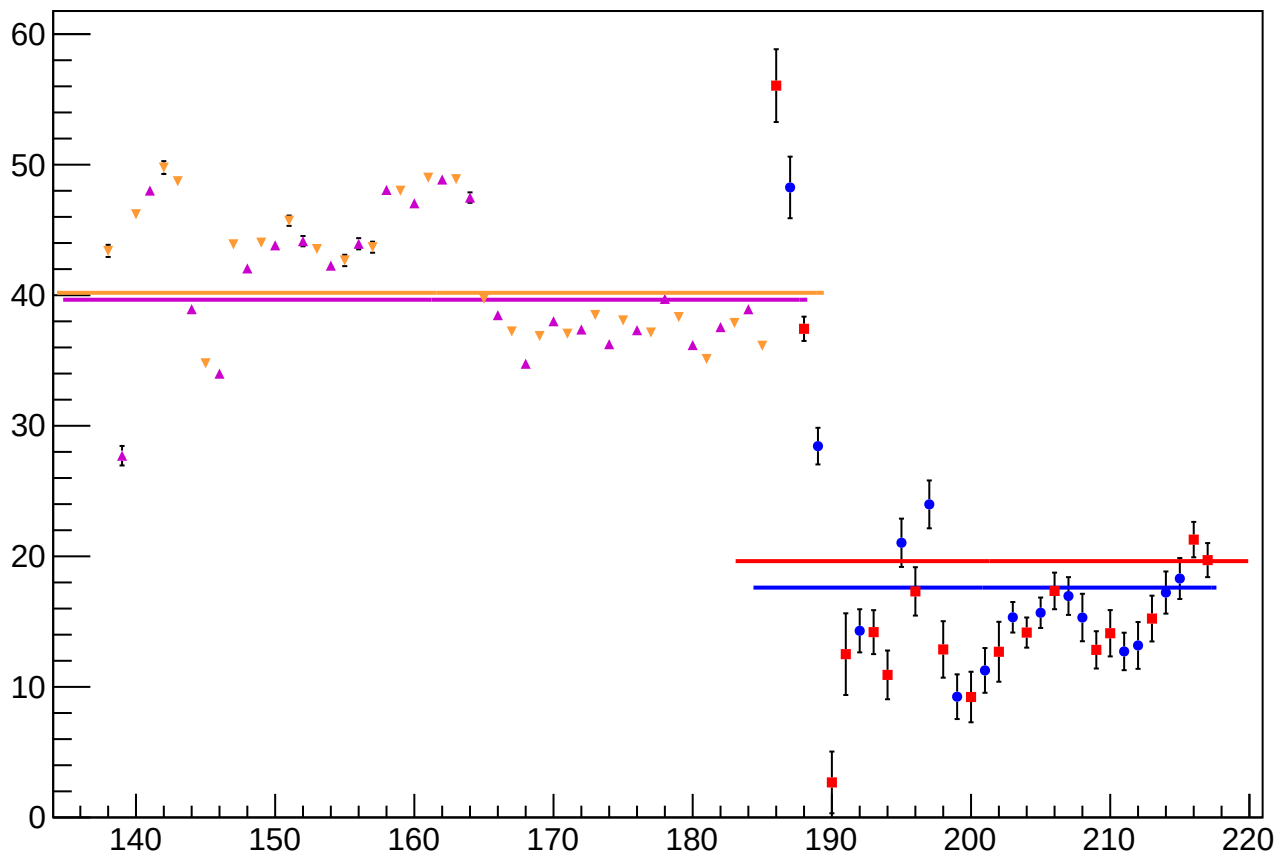
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.940 ± 0.230 $\chi^2/\text{NDF}: 964.0/14$
 Left Out: 20.894 ± 0.067 $\chi^2/\text{NDF}: 6655.4/24$
 Right Out: 30.551 ± 0.206 $\chi^2/\text{NDF}: 1192.3/16$
 Left In: 20.774 ± 0.068 $\chi^2/\text{NDF}: 5927.9/22$

Left: 20.835 ± 0.047 $\chi^2/\text{NDF}: 12584.8/47$
 Right: 29.832 ± 0.153 $\chi^2/\text{NDF}: 2183.6/31$
 In: 21.424 ± 0.065 $\chi^2/\text{NDF}: 8056.0/37$
 Out: 21.809 ± 0.063 $\chi^2/\text{NDF}: 9832.6/41$
 All: 21.620 ± 0.045 $\chi^2/\text{NDF}: 17906.5/79$

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.606 $\pm$ 0.403 χ^2/NDF : 312.0/14

Left Out: 40.186 $\pm$ 0.060 χ^2/NDF : 5932.7/24

Right Out: 19.634 $\pm$ 0.387 χ^2/NDF : 740.2/16

Left In: 39.655 $\pm$ 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2/NDF : 11269.2/47

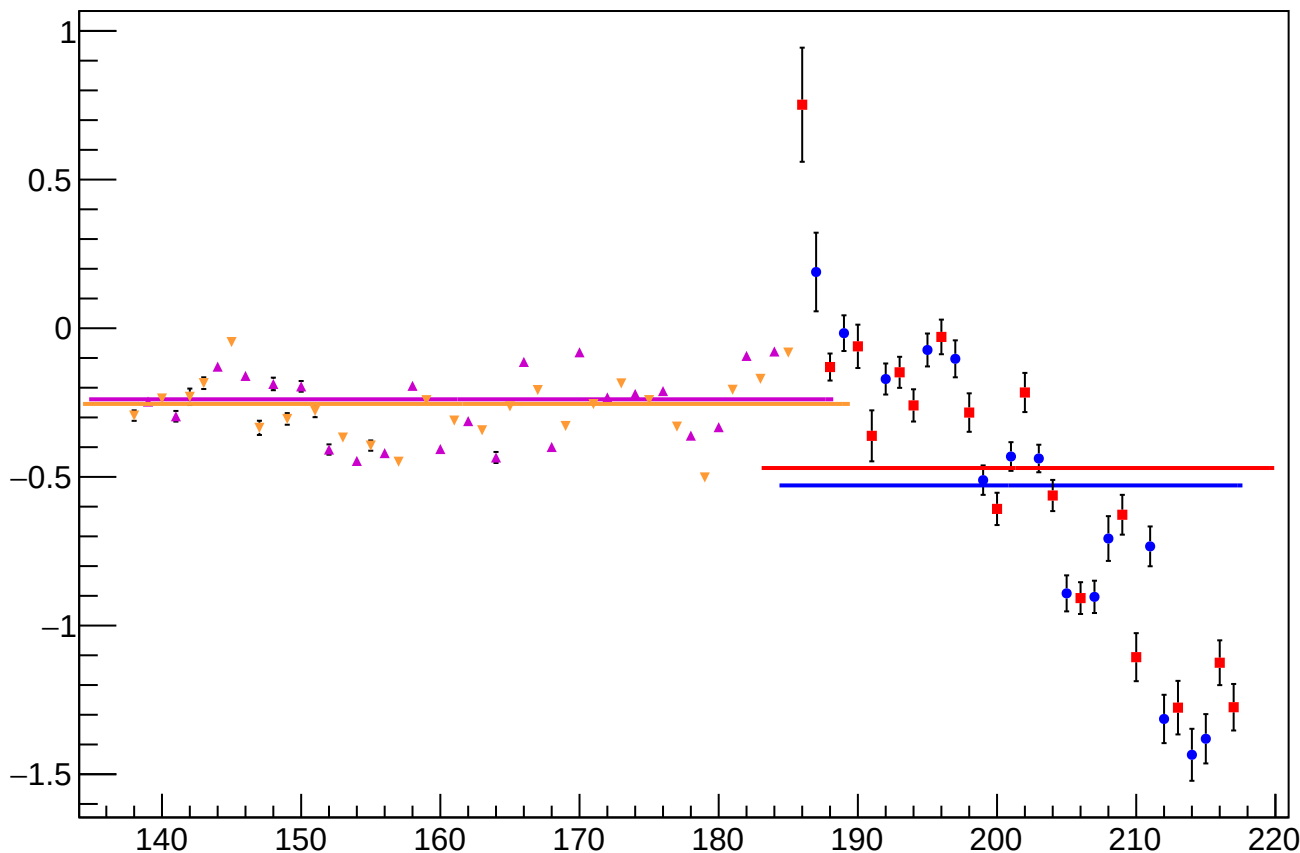
Right: 18.662 $\pm$ 0.279 χ^2/NDF : 1065.4/31

In: 39.154 $\pm$ 0.061 χ^2/NDF : 8538.0/37

Out: 39.696 $\pm$ 0.060 χ^2/NDF : 9431.5/41

All: 39.430 $\pm$ 0.043 χ^2/NDF : 18010.1/79

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.529 ± 0.016 χ^2/NDF : 676.6/14

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.470 ± 0.015 χ^2/NDF : 668.3/16

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

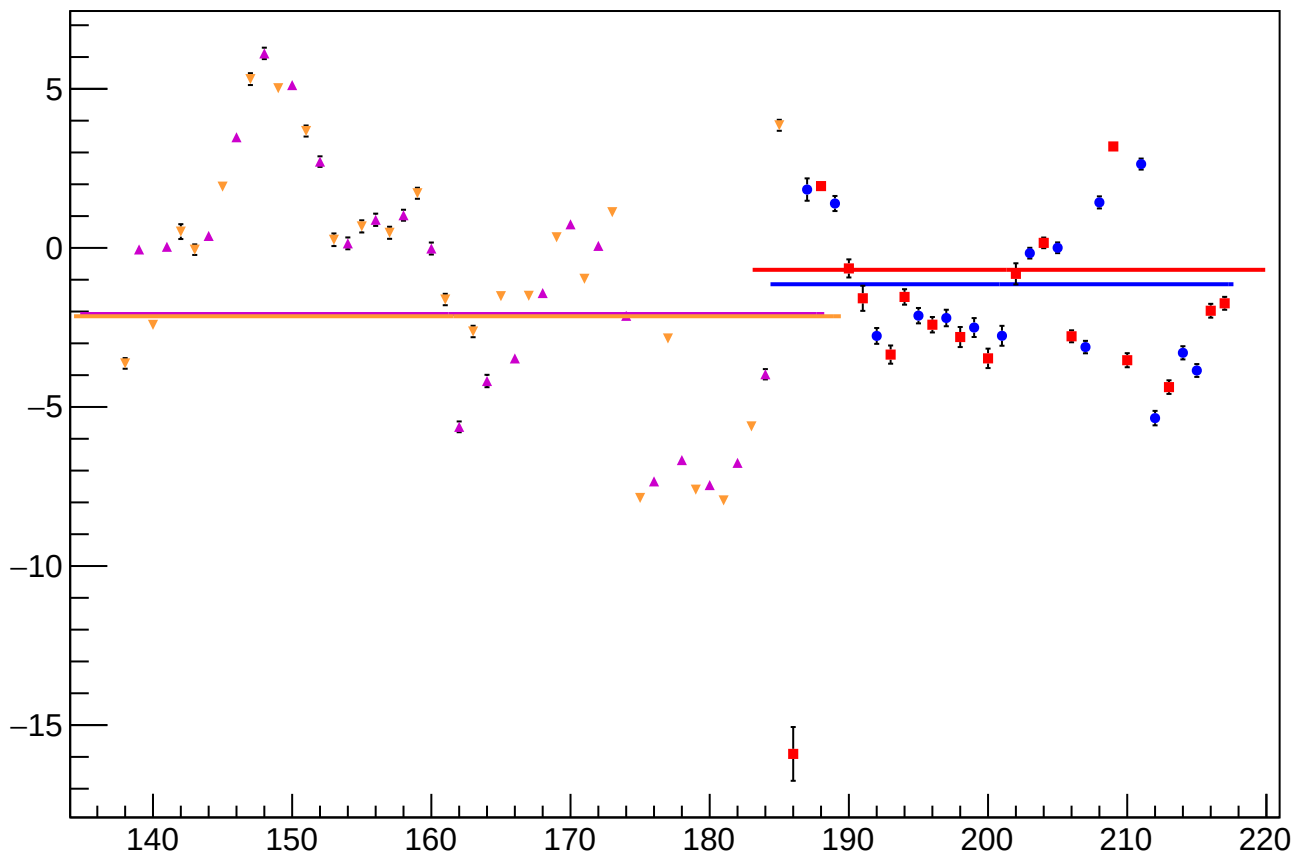
Right: -0.499 ± 0.011 χ^2/NDF : 1351.9/31

In: -0.248 ± 0.003 χ^2/NDF : 2754.8/37

Out: -0.261 ± 0.003 χ^2/NDF : 2277.8/41

All: -0.255 ± 0.002 χ^2/NDF : 5044.6/79

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

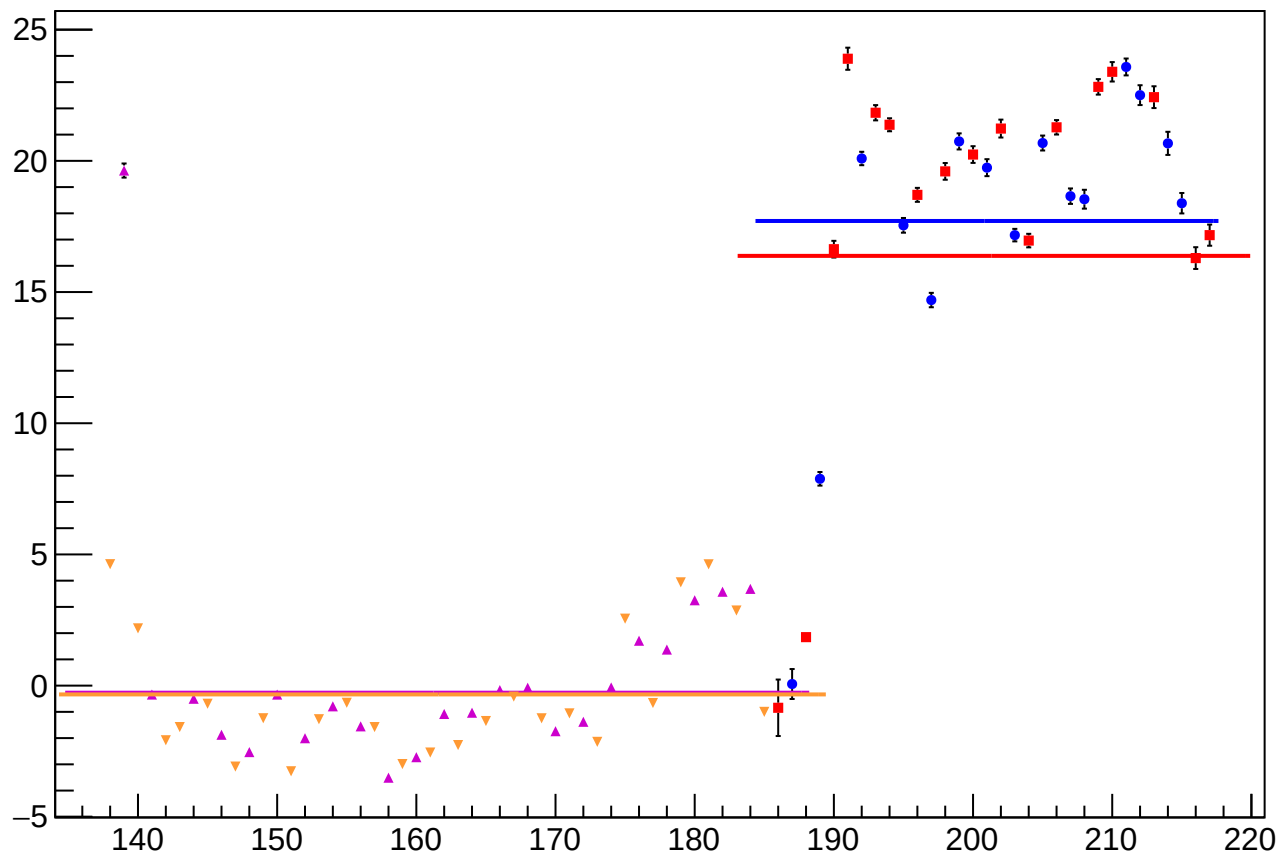


Right In: -1.142 ± 0.056 $\chi^2/\text{NDF}: 1778.4/14$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.689 ± 0.052 $\chi^2/\text{NDF}: 2460.0/16$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -0.899 ± 0.038 $\chi^2/\text{NDF}: 4273.6/31$
 In: -1.911 ± 0.024 $\chi^2/\text{NDF}: 25254.1/37$
 Out: -1.863 ± 0.023 $\chi^2/\text{NDF}: 27632.2/41$

All: -1.886 ± 0.016 $\chi^2/\text{NDF}: 52888.4/79$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.709 ± 0.080 χ^2/NDF : 3411.0/14

Left Out: -0.335 ± 0.021 χ^2/NDF : 12596.1/24

Right Out: 16.379 ± 0.073 χ^2/NDF : 11338.0/16

Left In: -0.269 ± 0.021 χ^2/NDF : 13323.1/22

Left: -0.303 ± 0.015 χ^2/NDF : 25924.2/47

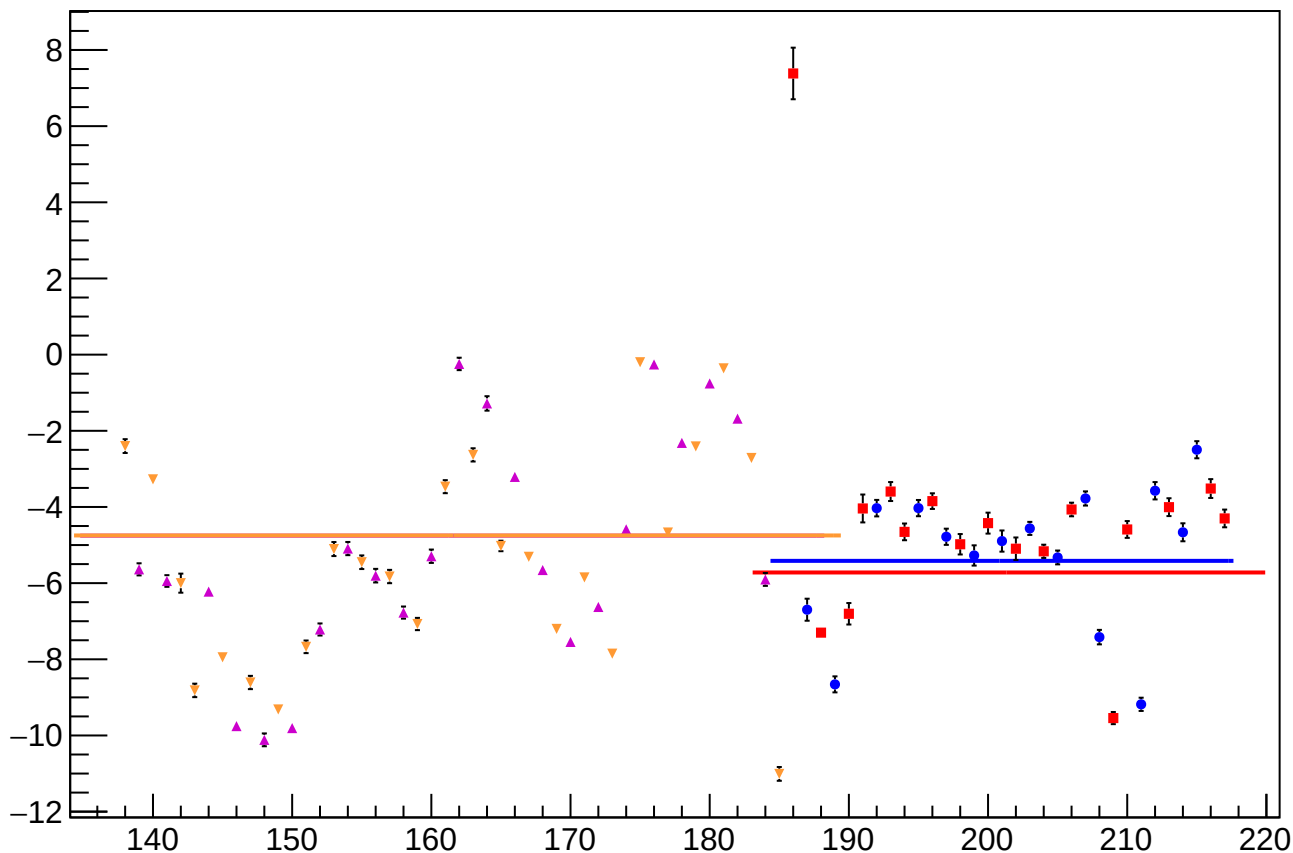
Right: 16.981 ± 0.054 χ^2/NDF : 14901.1/31

In: 0.889 ± 0.020 χ^2/NDF : 64215.8/37

Out: 0.910 ± 0.020 χ^2/NDF : 73048.3/41

All: 0.900 ± 0.014 χ^2/NDF : 137264.6/79

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

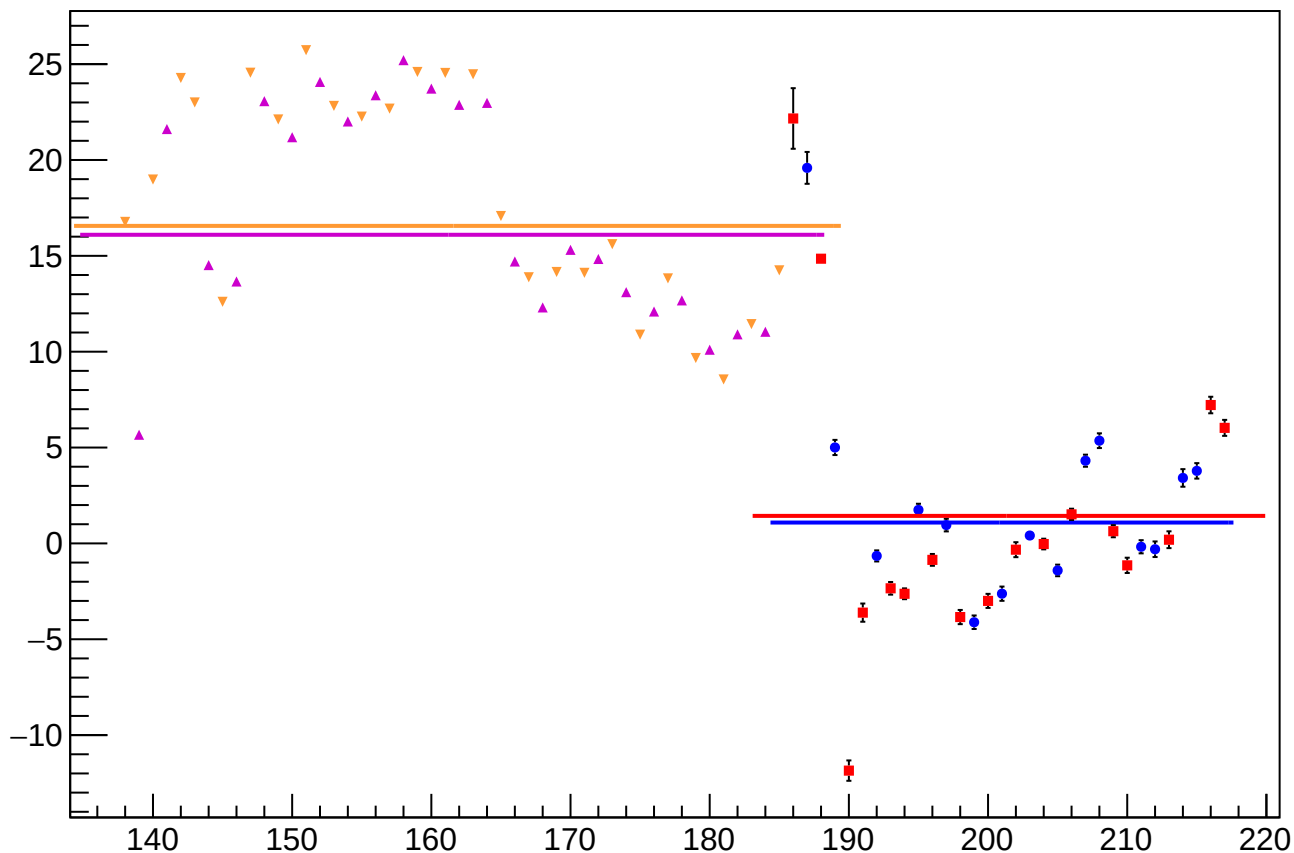


Right In: -5.415 ± 0.054 $\chi^2/\text{NDF}: 1279.1/14$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.720 ± 0.049 $\chi^2/\text{NDF}: 1805.0/16$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.585 ± 0.036 $\chi^2/\text{NDF}: 3101.6/31$
 In: -4.877 ± 0.024 $\chi^2/\text{NDF}: 15518.5/37$
 Out: -4.963 ± 0.023 $\chi^2/\text{NDF}: 15407.7/41$

All: -4.921 ± 0.016 $\chi^2/\text{NDF}: 30933.1/79$

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.088 $\pm$ 0.091 χ^2 /NDF: 1350.1/14

Left Out: 16.563 $\pm$ 0.023 χ^2 /NDF: 53858.5/24

Right Out: 1.435 $\pm$ 0.085 χ^2 /NDF: 5347.5/16

Left In: 16.098 $\pm$ 0.024 χ^2 /NDF: 42345.7/22

Left: 16.335 $\pm$ 0.017 χ^2 /NDF: 96401.9/47

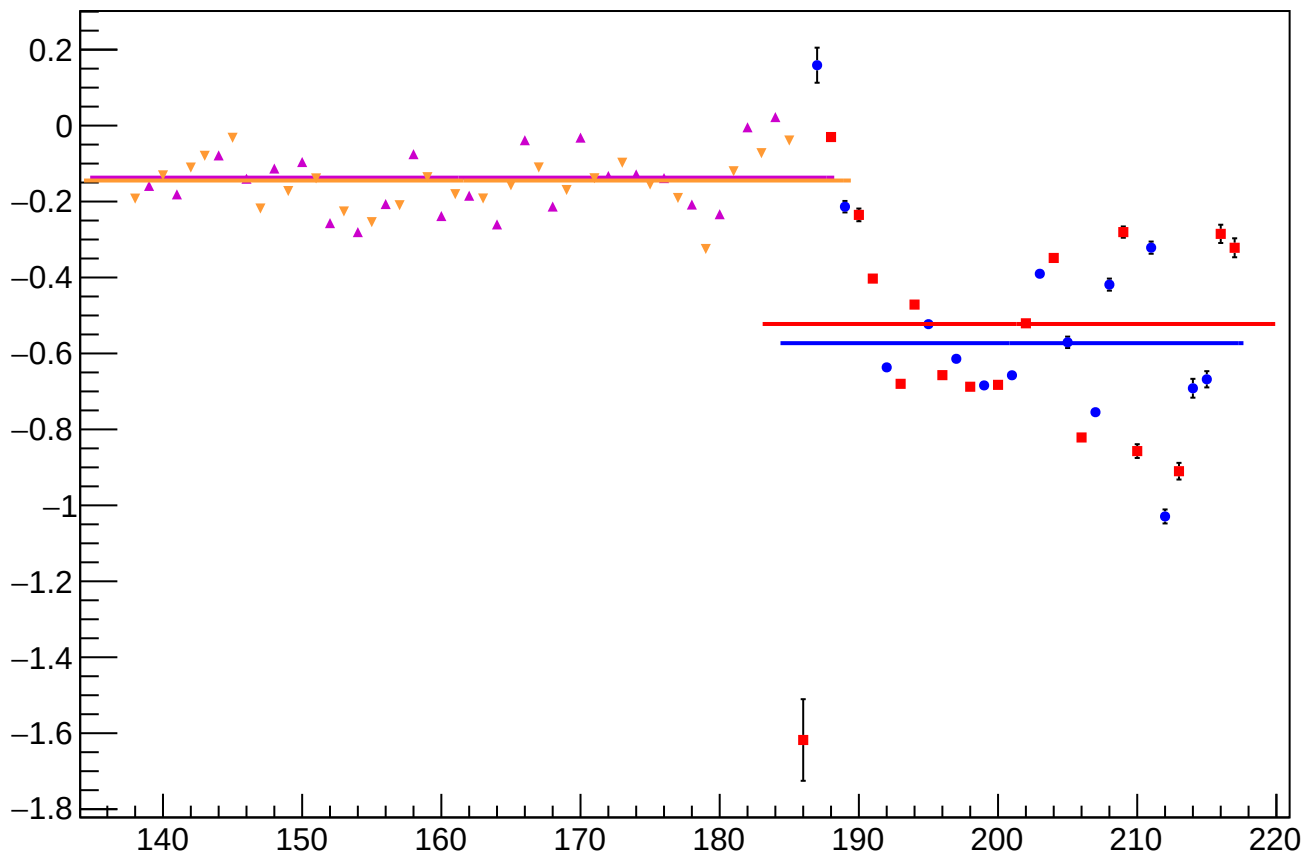
Right: 1.272 $\pm$ 0.062 χ^2 /NDF: 6705.4/31

In: 15.148 $\pm$ 0.023 χ^2 /NDF: 69405.2/37

Out: 15.526 $\pm$ 0.022 χ^2 /NDF: 88465.5/41

All: 15.341 $\pm$ 0.016 χ^2 /NDF: 158011.6/79

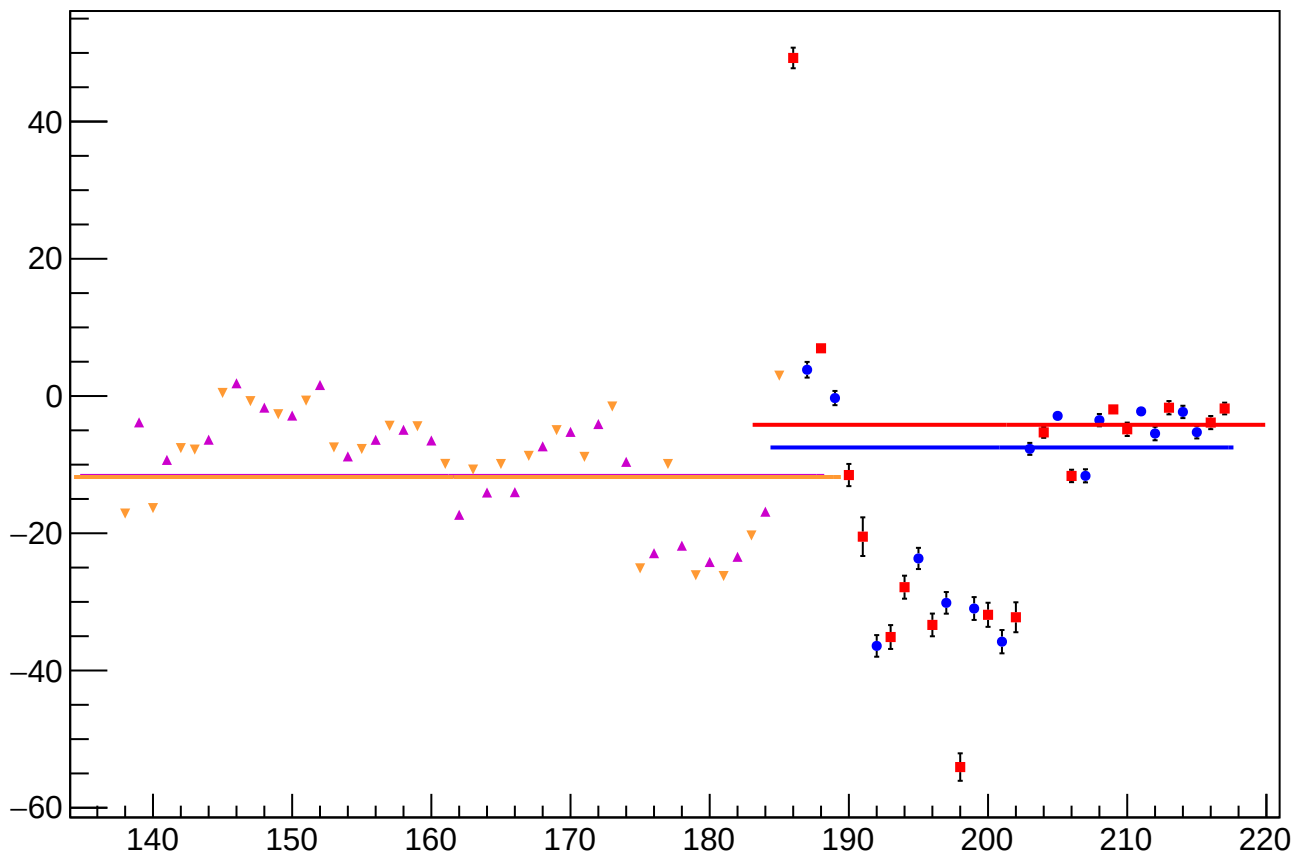
reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.573 ± 0.003 χ^2/NDF : 2682.9/14
 Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24
 Right Out: -0.522 ± 0.003 χ^2/NDF : 5652.6/16
 Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47
 Right: -0.546 ± 0.002 χ^2/NDF : 8462.0/31
 In: -0.179 ± 0.001 χ^2/NDF : 23942.4/37
 Out: -0.185 ± 0.001 χ^2/NDF : 23101.2/41
 All: -0.182 ± 0.001 χ^2/NDF : 47061.4/79

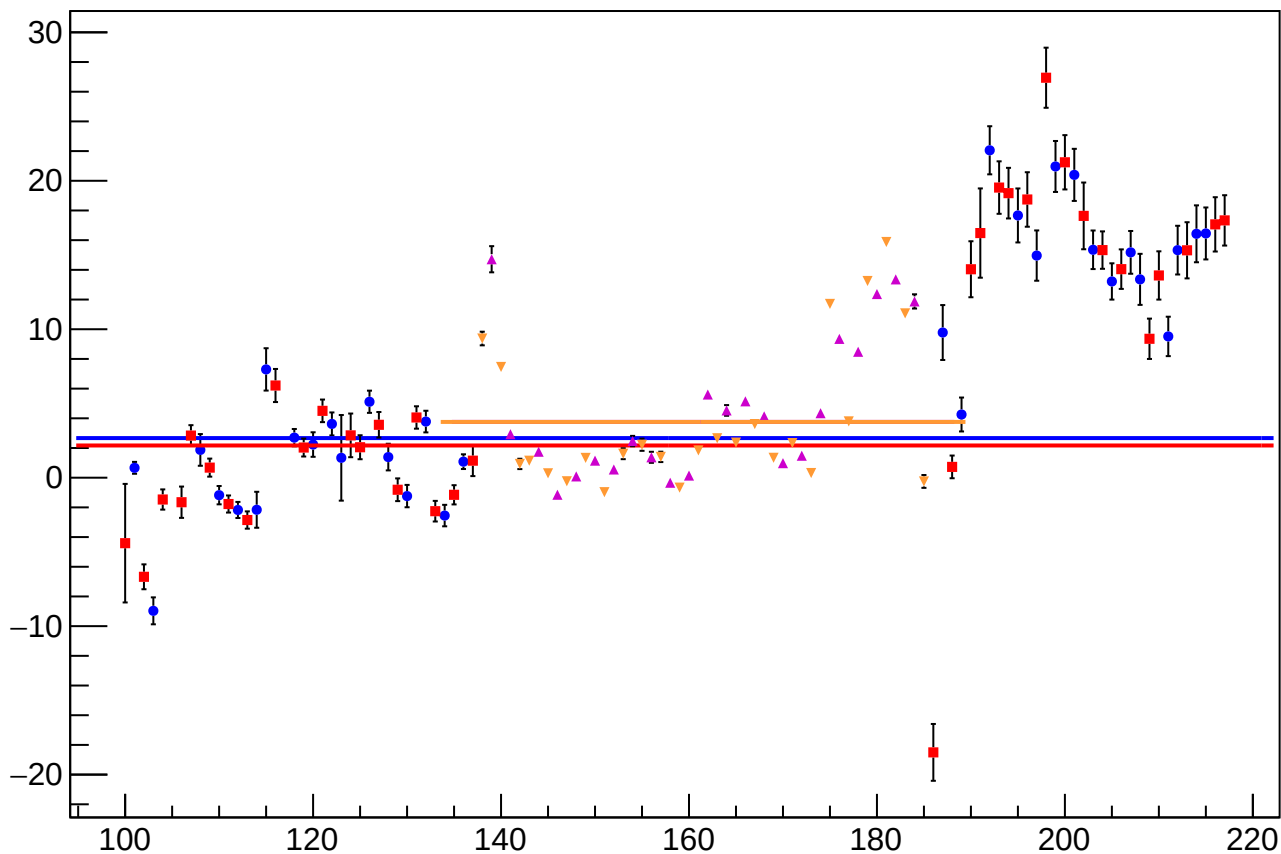
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.496 ± 0.262 $\chi^2/\text{NDF}: 1451.4/14$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.193 ± 0.254 $\chi^2/\text{NDF}: 3710.4/16$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: -5.793 ± 0.182 $\chi^2/\text{NDF}: 5244.0/31$
 In: -11.353 ± 0.069 $\chi^2/\text{NDF}: 15806.3/37$
 Out: -11.258 ± 0.068 $\chi^2/\text{NDF}: 21854.7/41$
 All: -11.305 ± 0.048 $\chi^2/\text{NDF}: 37662.0/79$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.668 $\pm$ 0.157 χ^2 /NDF: 1421.5/31

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 2.170 $\pm$ 0.158 χ^2 /NDF: 1625.1/35

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF: 5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

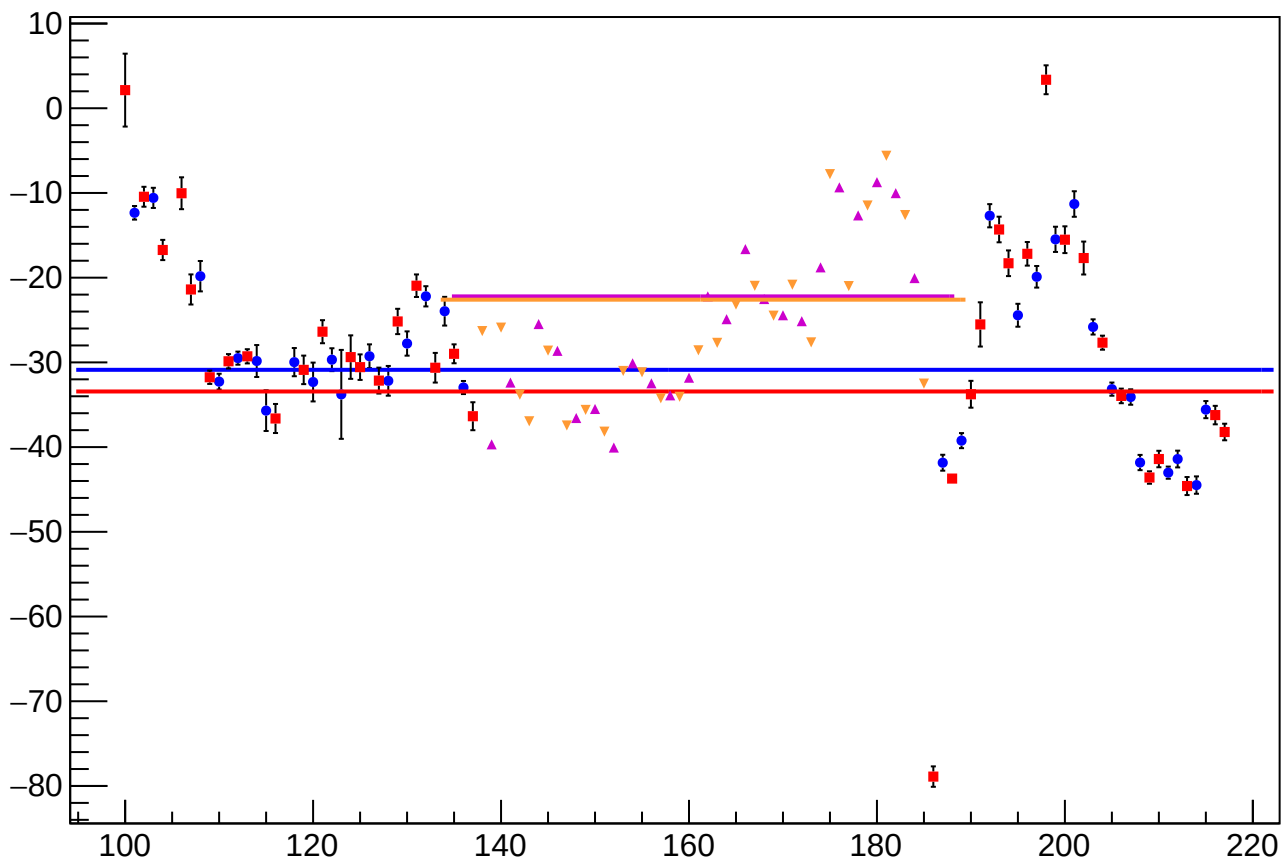
Right: 2.422 $\pm$ 0.111 χ^2 /NDF: 3051.6/67

In: 3.631 $\pm$ 0.053 χ^2 /NDF: 7093.7/54

Out: 3.583 $\pm$ 0.052 χ^2 /NDF: 9165.1/60

All: 3.607 $\pm$ 0.037 χ^2 /NDF: 16259.2/115

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

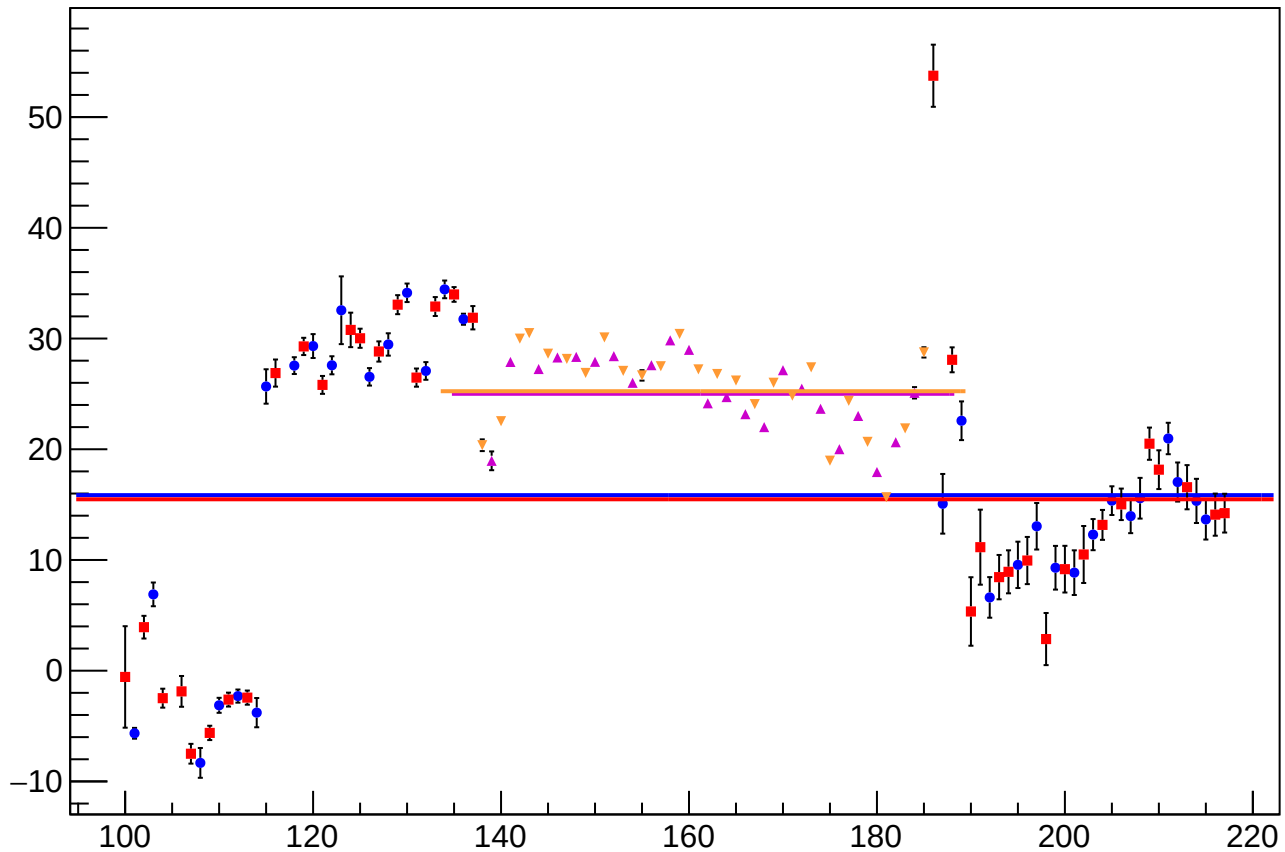


Right In: -30.877 ± 0.195 $\chi^2/\text{NDF}: 2528.2/31$
 Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$
 Right Out: -33.434 ± 0.187 $\chi^2/\text{NDF}: 4571.6/35$
 Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$
 Right: -32.213 ± 0.135 $\chi^2/\text{NDF}: 7189.4/67$
 In: -23.237 ± 0.067 $\chi^2/\text{NDF}: 21893.8/54$
 Out: -23.957 ± 0.066 $\chi^2/\text{NDF}: 27452.0/60$

All: -23.603 ± 0.047 $\chi^2/\text{NDF}: 49404.2/115$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.856+/-0.177 χ^2/NDF : 7641.2/31

Left Out: 25.242+/-0.063 χ^2/NDF : 3786.5/24

Right Out: 15.481+/-0.180 χ^2/NDF : 7676.7/35

Left In: 25.009+/-0.064 χ^2/NDF : 2722.0/22

Left: 25.128+/-0.045 χ^2/NDF : 6515.2/47

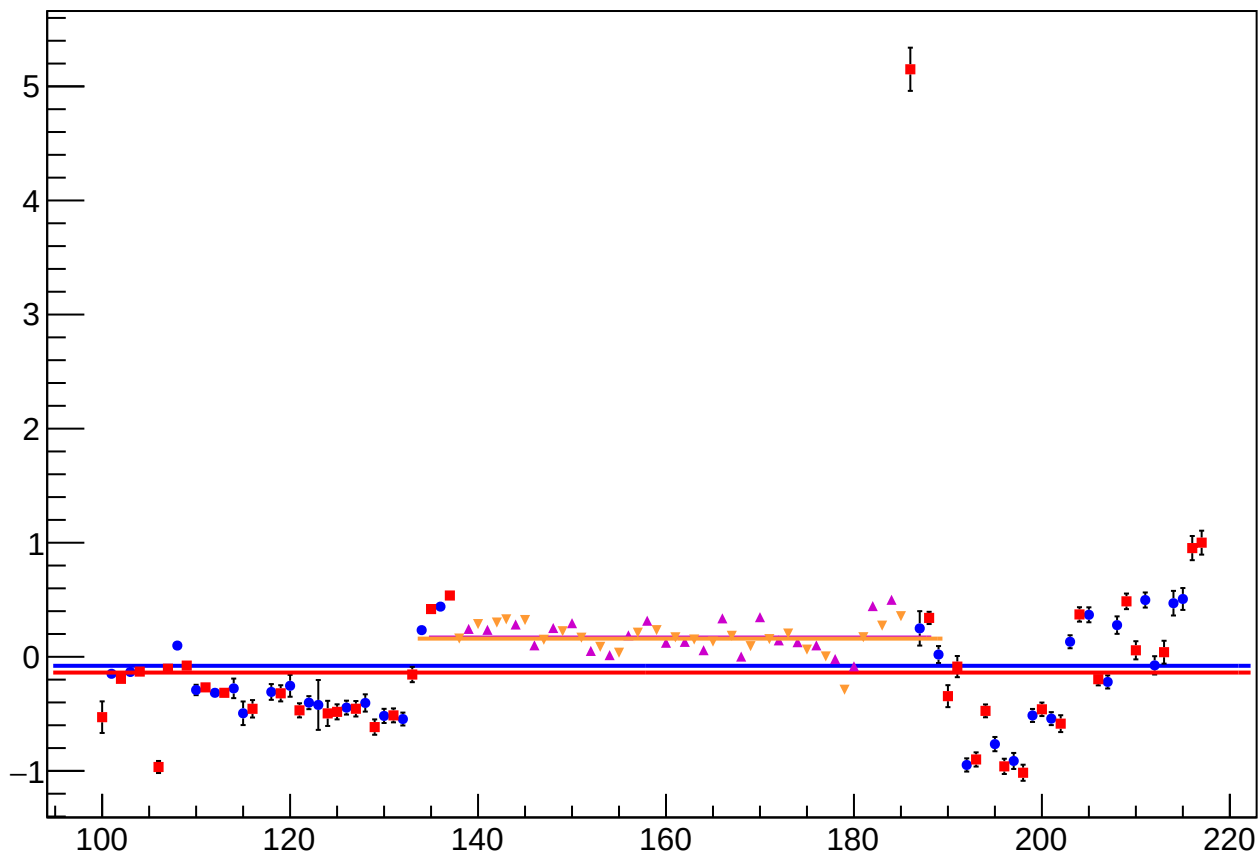
Right: 15.672+/-0.126 χ^2/NDF : 15320.0/67

In: 23.955+/-0.060 χ^2/NDF : 12729.7/54

Out: 24.191+/-0.059 χ^2/NDF : 14079.0/60

All: 24.075+/-0.042 χ^2/NDF : 26816.5/115

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.079 ± 0.009 χ^2/NDF : 1873.8/31

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.138 ± 0.009 χ^2/NDF : 2965.5/35

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

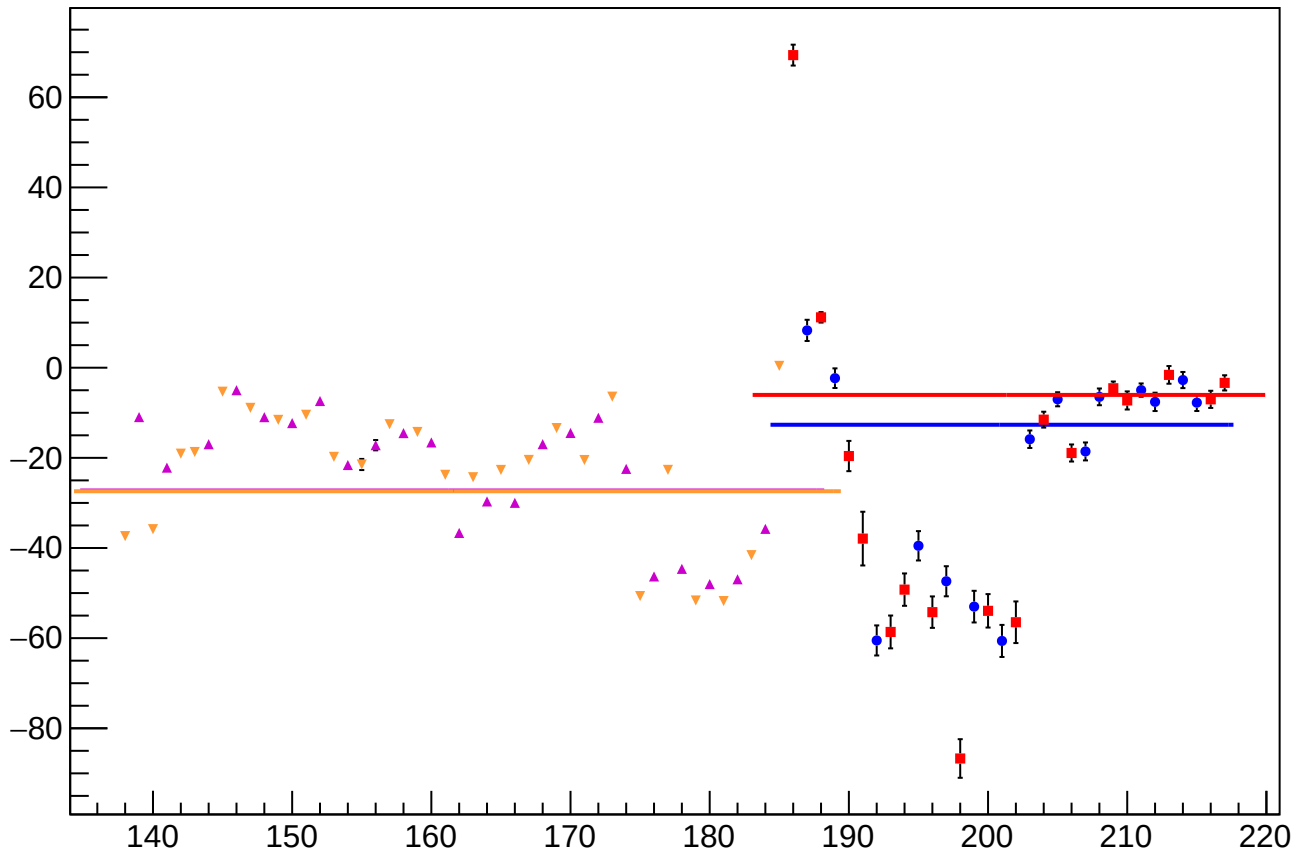
Right: -0.109 ± 0.006 χ^2/NDF : 4861.4/67

In: 0.145 ± 0.003 χ^2/NDF : 4988.3/54

Out: 0.131 ± 0.003 χ^2/NDF : 5839.1/60

All: 0.138 ± 0.002 χ^2/NDF : 10839.5/115

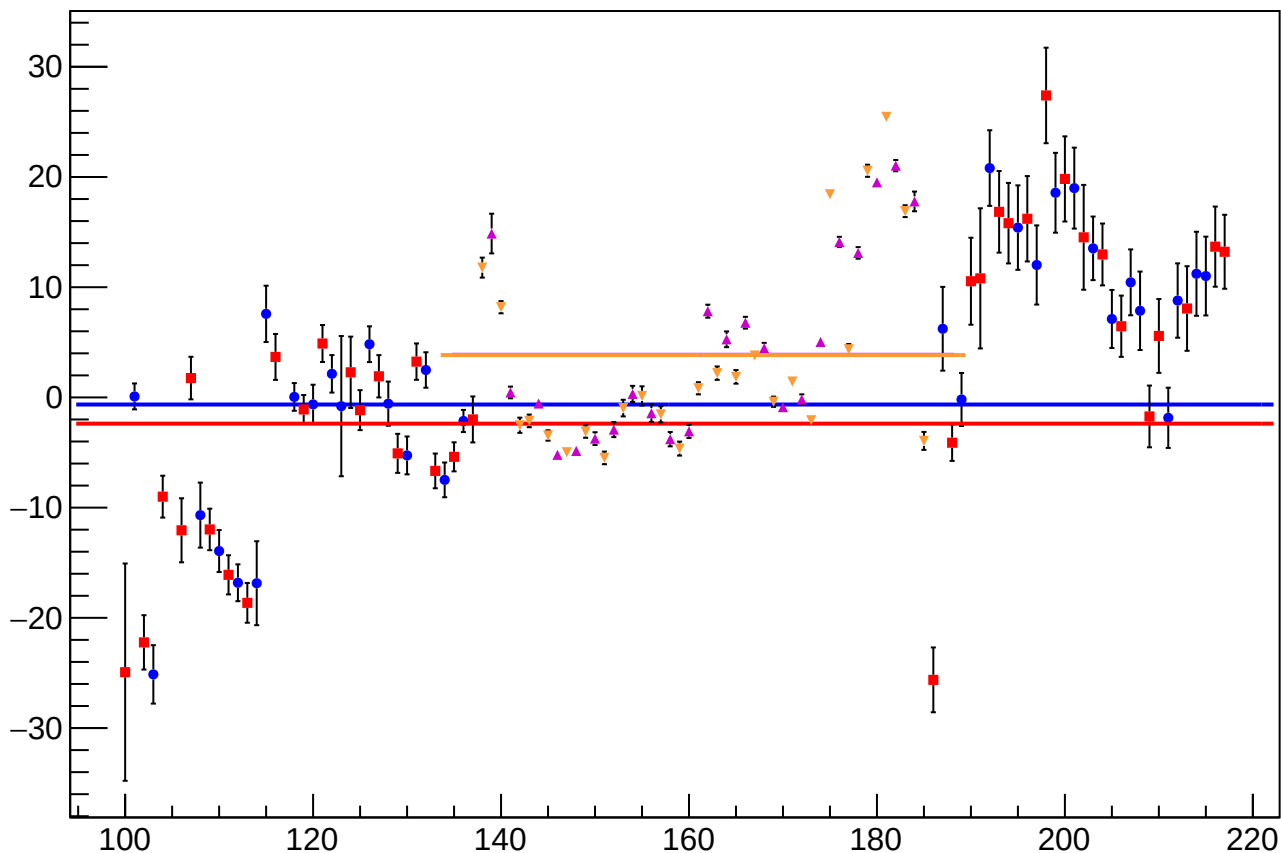
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.657 ± 0.547 $\chi^2/\text{NDF}: 904.5/14$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.035 ± 0.524 $\chi^2/\text{NDF}: 2572.8/16$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -9.207 ± 0.378 $\chi^2/\text{NDF}: 3553.7/31$
 In: -26.353 ± 0.135 $\chi^2/\text{NDF}: 12878.0/37$
 Out: -26.044 ± 0.132 $\chi^2/\text{NDF}: 18979.4/41$
 All: -26.196 ± 0.095 $\chi^2/\text{NDF}: 31860.1/79$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.644 ± 0.369 χ^2/NDF : 524.2/31

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.380 ± 0.374 χ^2/NDF : 667.5/35

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

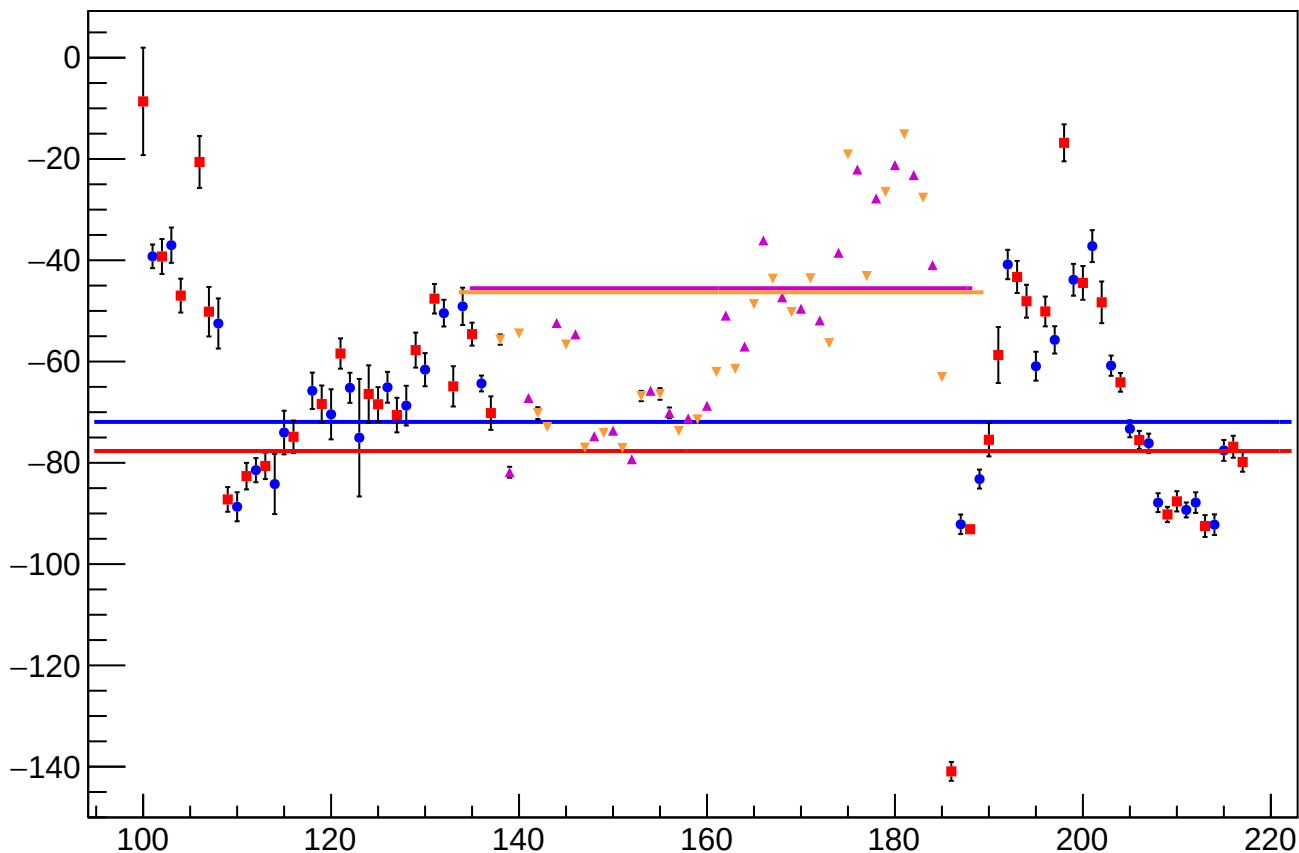
Right: -1.499 ± 0.263 χ^2/NDF : 1202.6/67

In: 3.490 ± 0.106 χ^2/NDF : 6085.3/54

Out: 3.353 ± 0.105 χ^2/NDF : 7861.3/60

All: 3.421 ± 0.075 χ^2/NDF : 13947.4/115

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.921 ± 0.434 χ^2/NDF : 1446.6/31

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.665 ± 0.414 χ^2/NDF : 3100.3/35

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

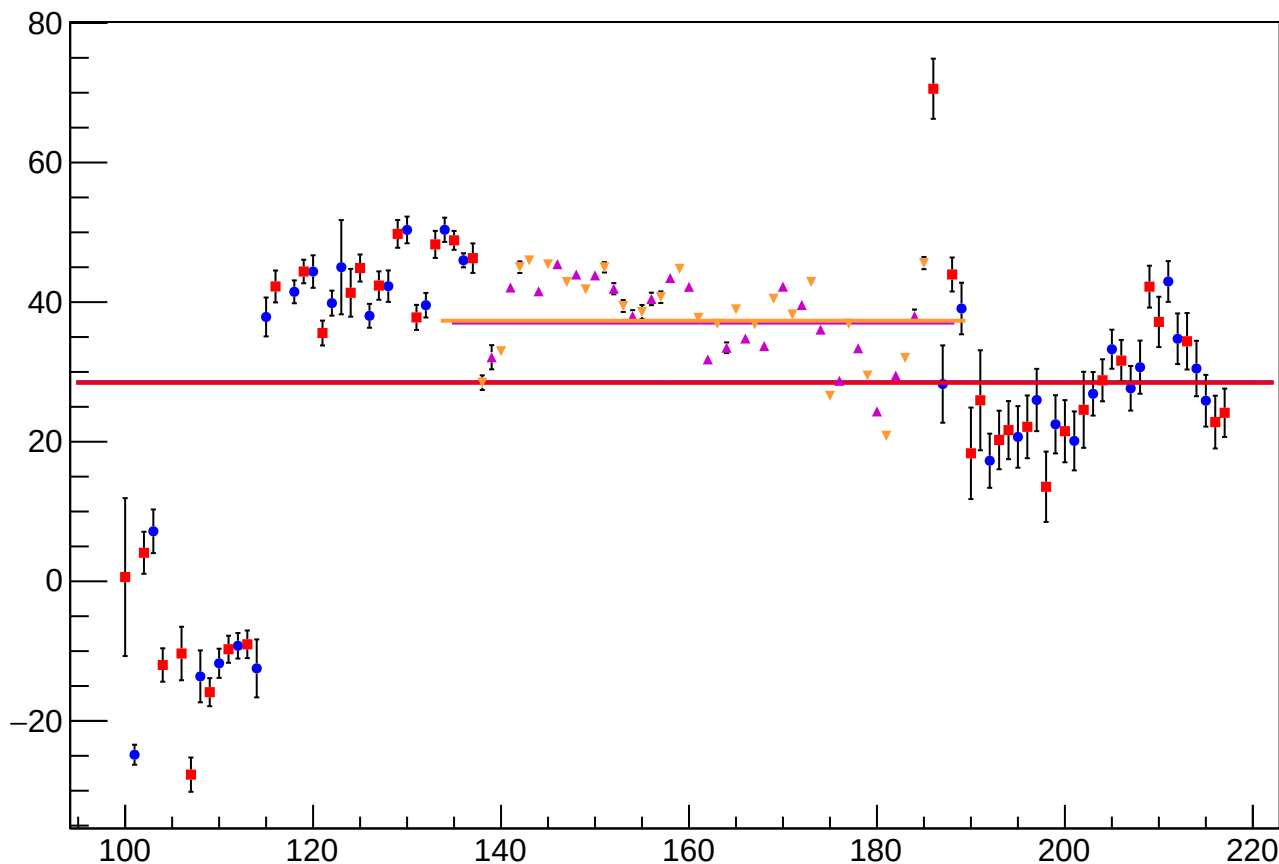
Right: -74.931 ± 0.300 χ^2/NDF : 4638.5/67

In: -47.998 ± 0.133 χ^2/NDF : 22319.0/54

Out: -49.450 ± 0.131 χ^2/NDF : 28396.2/60

All: -48.736 ± 0.093 χ^2/NDF : 50775.8/115

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.517 $\pm$ 0.414 χ^2 /NDF: 3369.0/31

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.450 $\pm$ 0.425 χ^2 /NDF: 3229.0/35

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

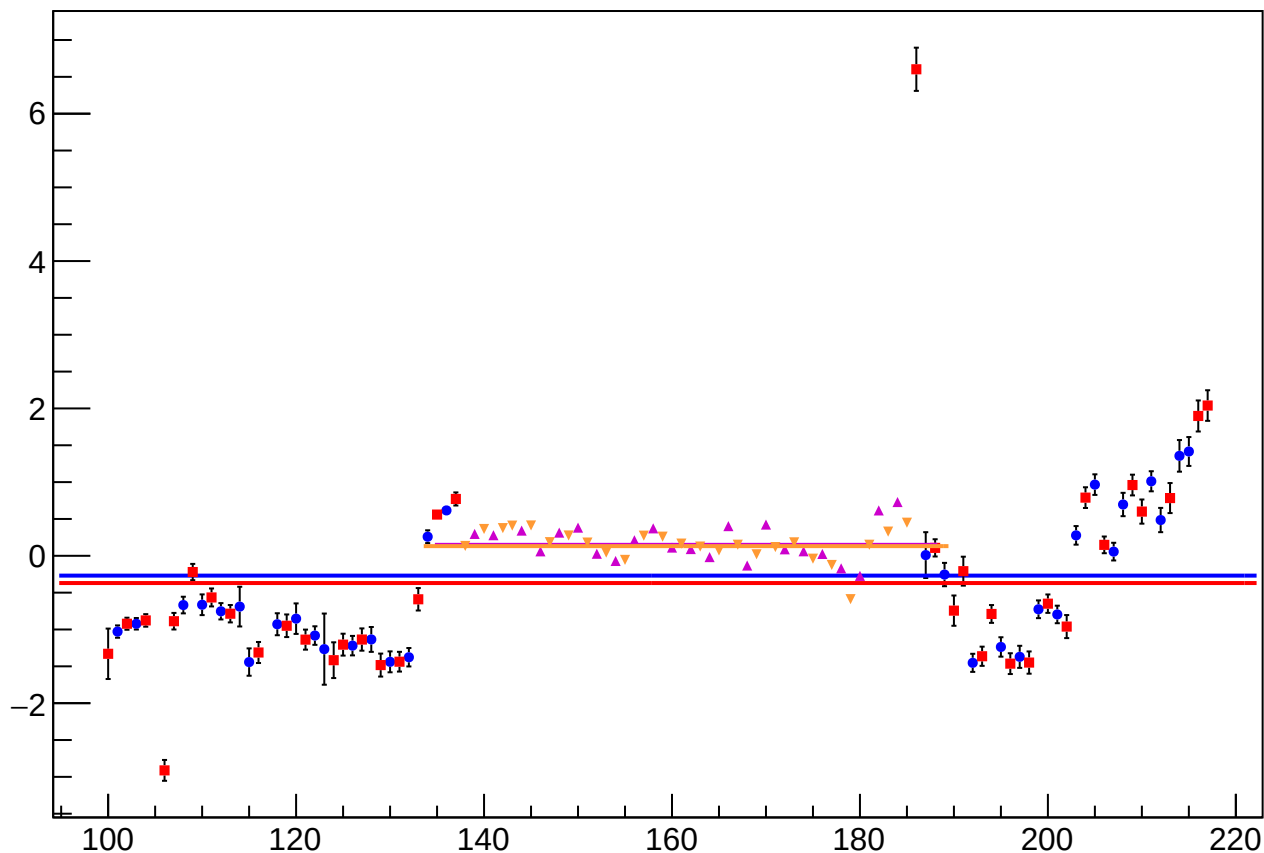
Right: 28.484 $\pm$ 0.297 χ^2 /NDF: 6598.0/67

In: 36.358 $\pm$ 0.120 χ^2 /NDF:6157.0/54

Out: 36.655 $\pm$ 0.118 χ^2 /NDF:6781.2/60

All: 36.509 $\pm$ 0.084 χ^2 /NDF: 12941.3/115

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.269 ± 0.021 χ^2/NDF : 1632.7/31

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.370 ± 0.021 χ^2/NDF : 2472.9/35

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

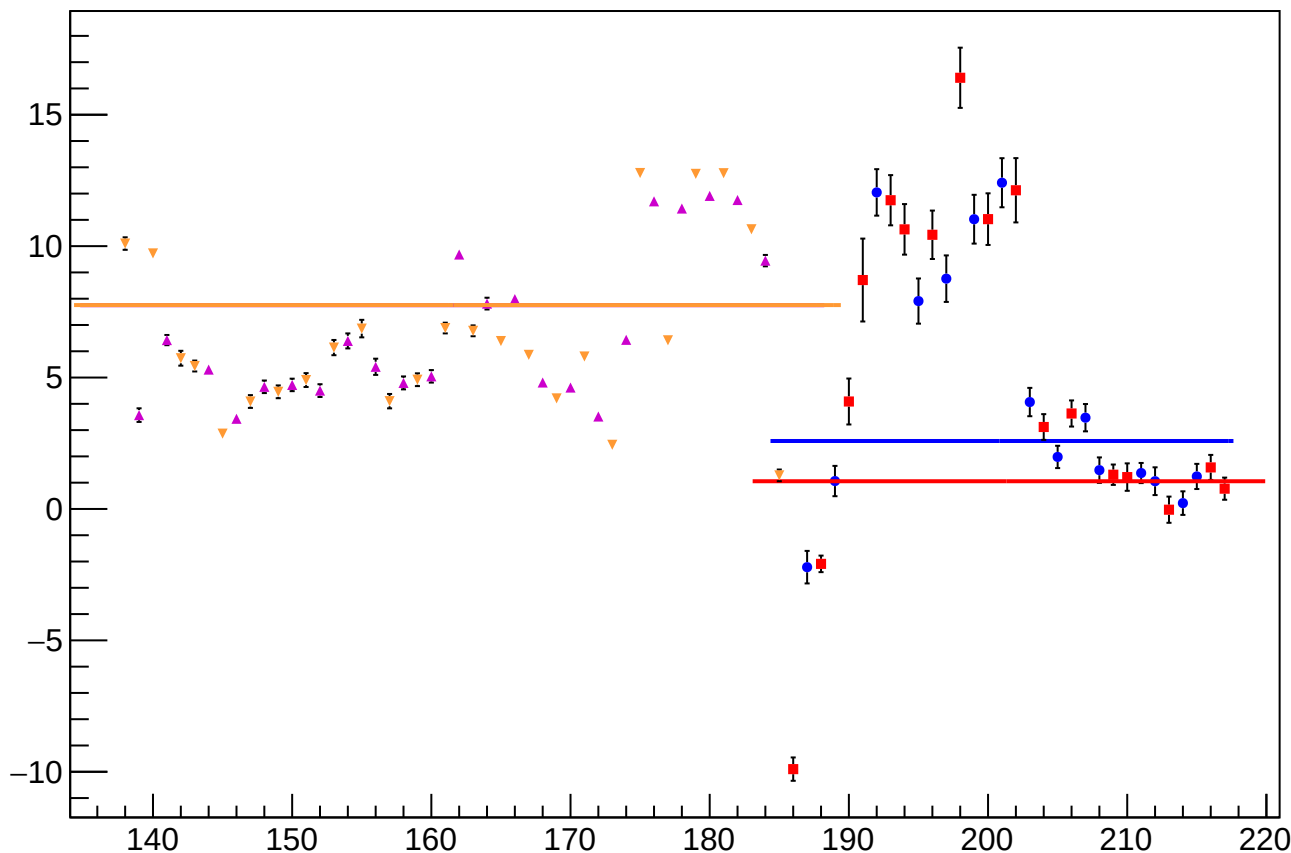
Right: -0.318 ± 0.015 χ^2/NDF : 4117.2/67

In: 0.119 ± 0.006 χ^2/NDF : 3812.7/54

Out: 0.098 ± 0.005 χ^2/NDF : 4426.4/60

All: 0.108 ± 0.004 χ^2/NDF : 8246.5/115

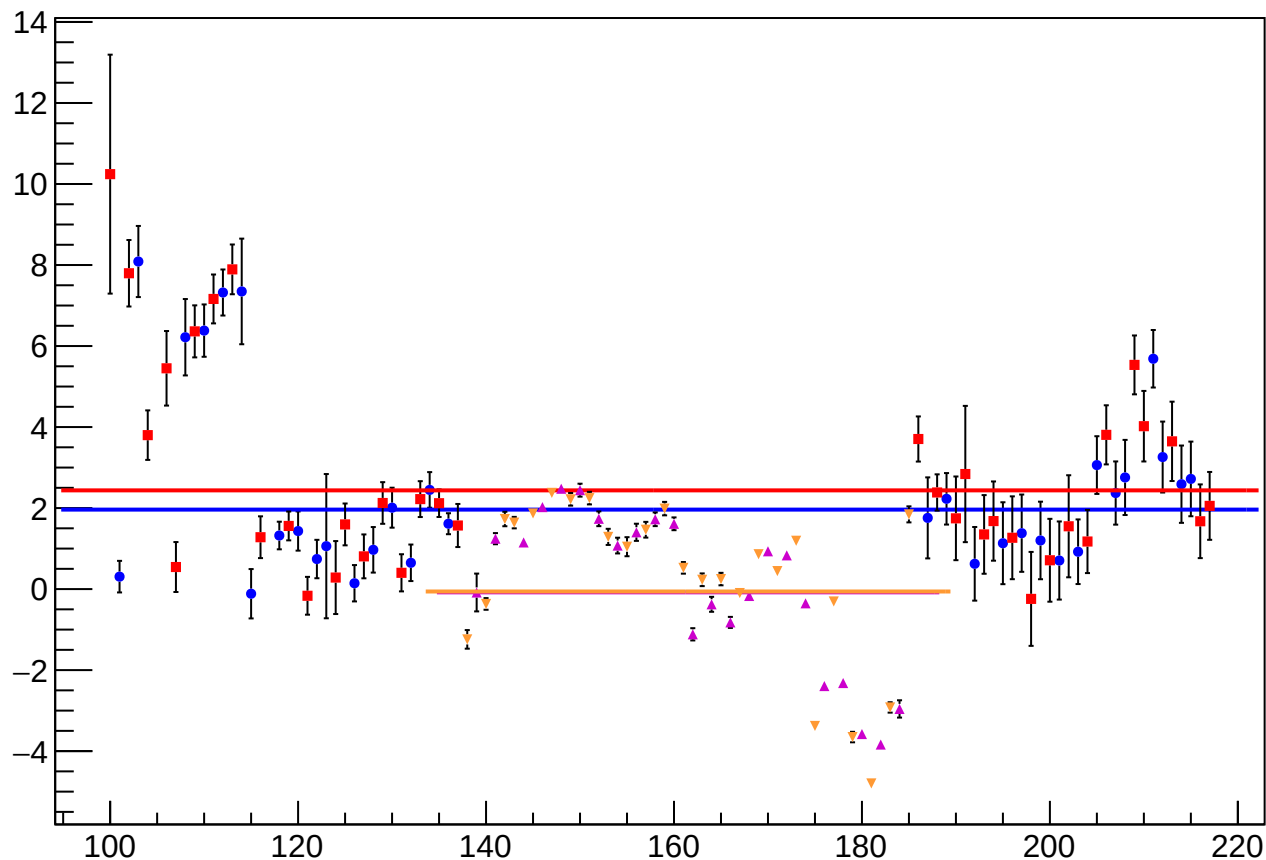
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.586 ± 0.144 $\chi^2/\text{NDF}: 534.0/14$
 Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$
 Right Out: 1.055 ± 0.134 $\chi^2/\text{NDF}: 1487.9/16$
 Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$
 Right: 1.770 ± 0.098 $\chi^2/\text{NDF}: 2082.5/31$
 In: 7.462 ± 0.034 $\chi^2/\text{NDF}: 10101.7/37$
 Out: 7.346 ± 0.033 $\chi^2/\text{NDF}: 15549.5/41$
 All: 7.403 ± 0.024 $\chi^2/\text{NDF}: 25657.1/79$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.962 ± 0.103 $\chi^2/\text{NDF}: 335.8/31$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.437 ± 0.104 $\chi^2/\text{NDF}: 383.4/35$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

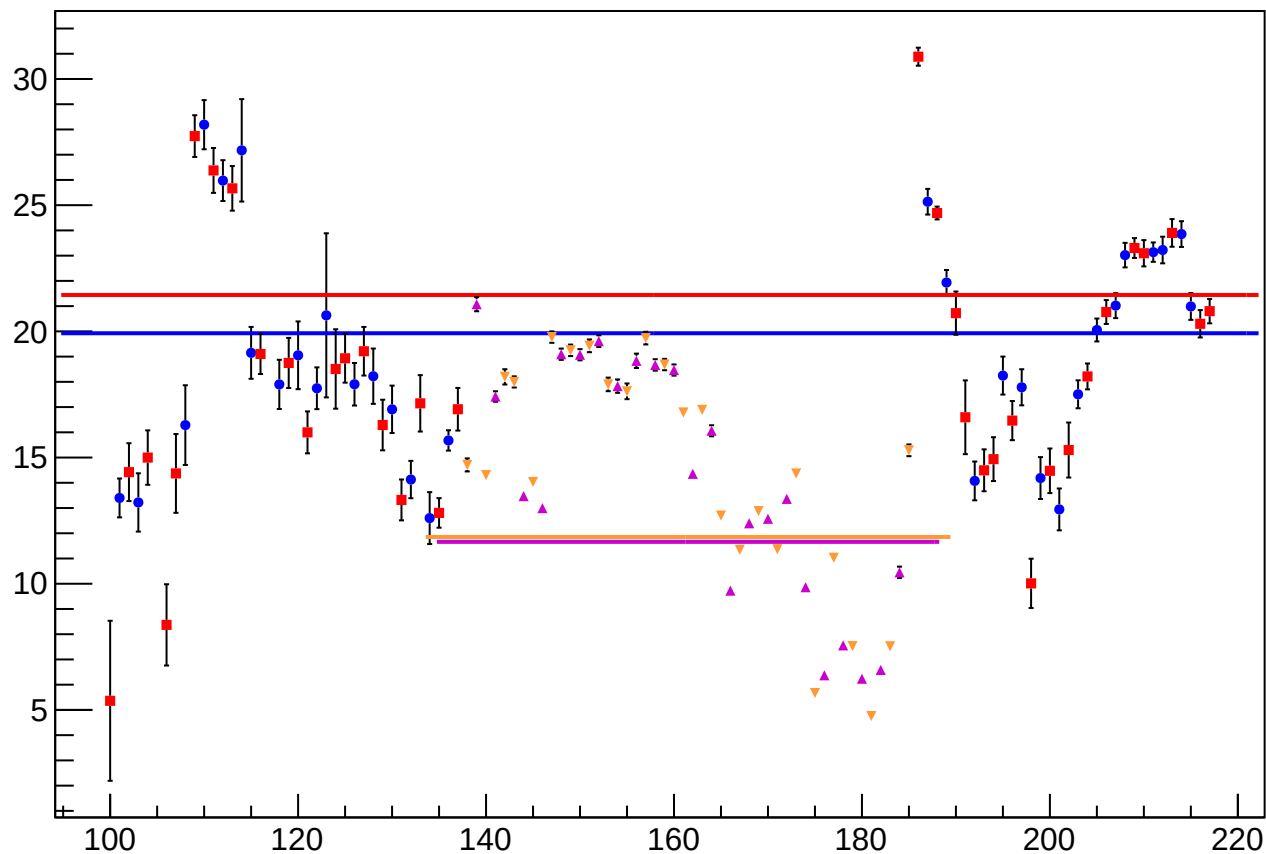
Right: 2.197 ± 0.073 $\chi^2/\text{NDF}: 729.7/67$

In: 0.062 ± 0.027 $\chi^2/\text{NDF}: 5678.3/54$

Out: 0.105 ± 0.027 $\chi^2/\text{NDF}: 6985.9/60$

All: 0.084 ± 0.019 $\chi^2/\text{NDF}: 12665.5/115$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.925 $\pm$ 0.117 χ^2 /NDF: 1054.3/31

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.442 $\pm$ 0.110 χ^2 /NDF: 2133.0/35

Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47

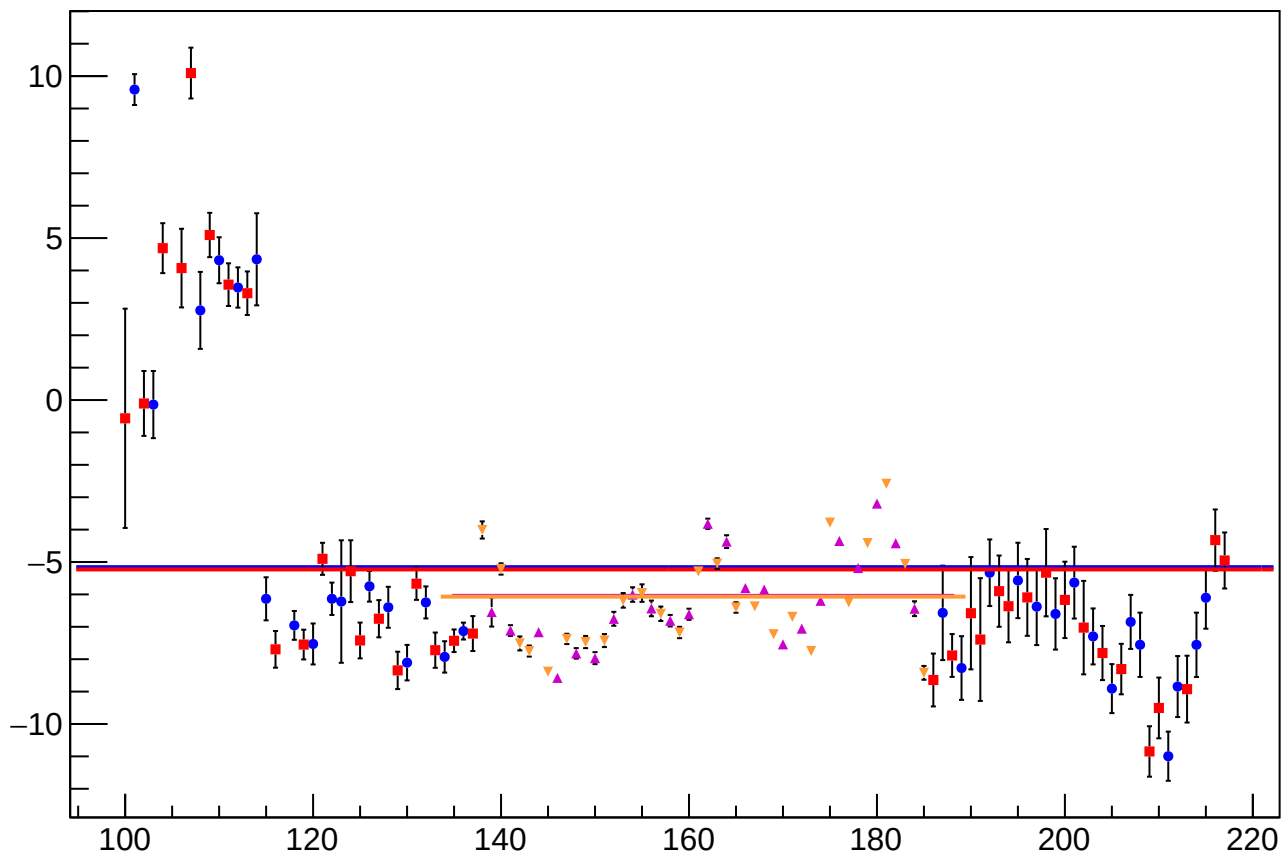
Right: 20.735 $\pm$ 0.080 χ^2 /NDF: 3276.3/67

In: 12.341 $\pm$ 0.034 χ^2 /NDF:22309.7/54

Out: 12.724 $\pm$ 0.033 χ^2 /NDF:28225.1/60

All: 12.536 $\pm$ 0.024 χ^2 /NDF: 50600.5/115

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.159 ± 0.116 $\chi^2/\text{NDF}: 1744.4/31$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.229 ± 0.119 $\chi^2/\text{NDF}: 1523.5/35$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

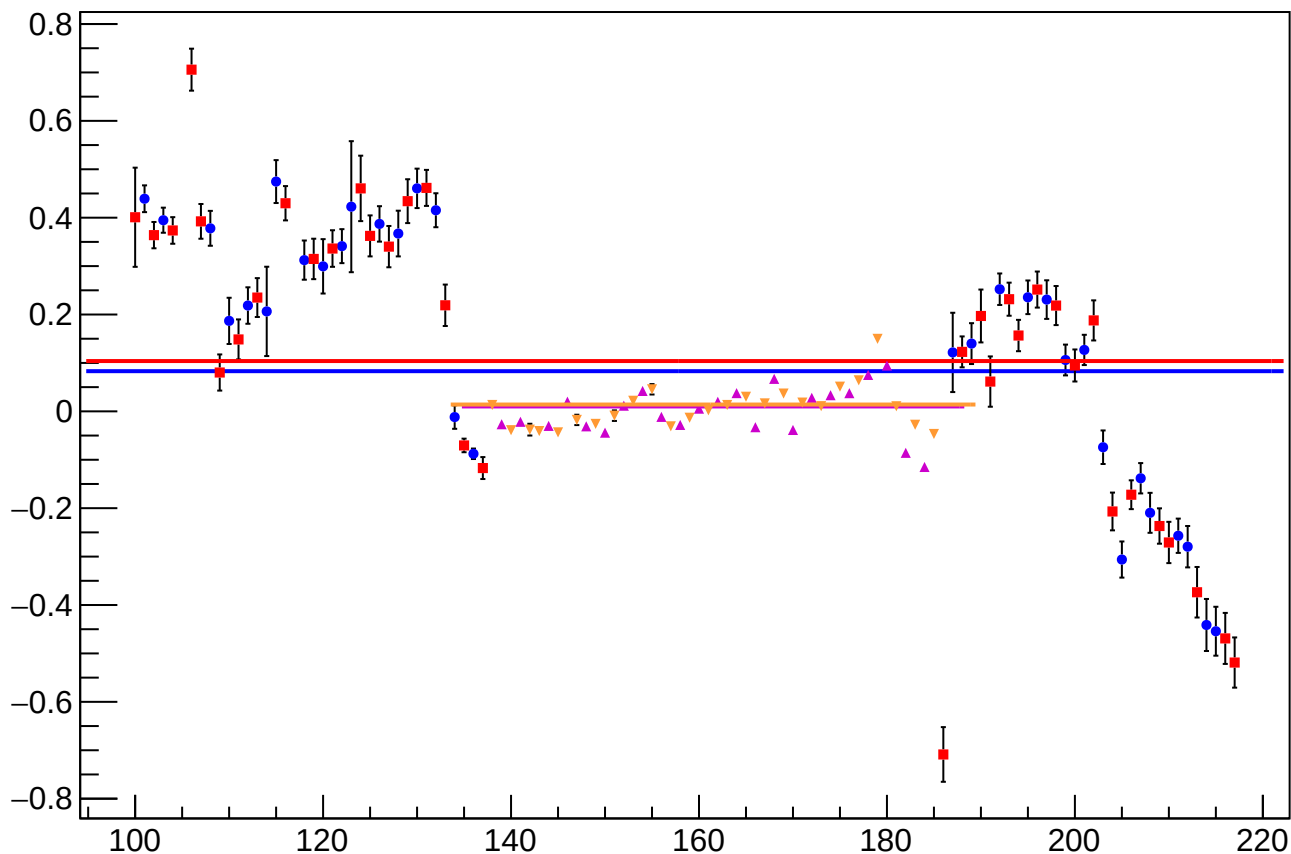
Right: -5.193 ± 0.083 $\chi^2/\text{NDF}: 3268.2/67$

In: -5.983 ± 0.031 $\chi^2/\text{NDF}: 4092.7/54$

Out: -6.014 ± 0.030 $\chi^2/\text{NDF}: 4242.0/60$

All: -5.999 ± 0.021 $\chi^2/\text{NDF}: 8335.3/115$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.083 $\pm$ 0.006 χ^2 /NDF: 1794.2/31

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF:956.2/24

Right Out: 0.104 $\pm$ 0.006 χ^2 /NDF: 2027.7/35

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF:1216.1/22

Left: 0.012 $\pm$ 0.001 χ^2 /NDF: 2176.2/47

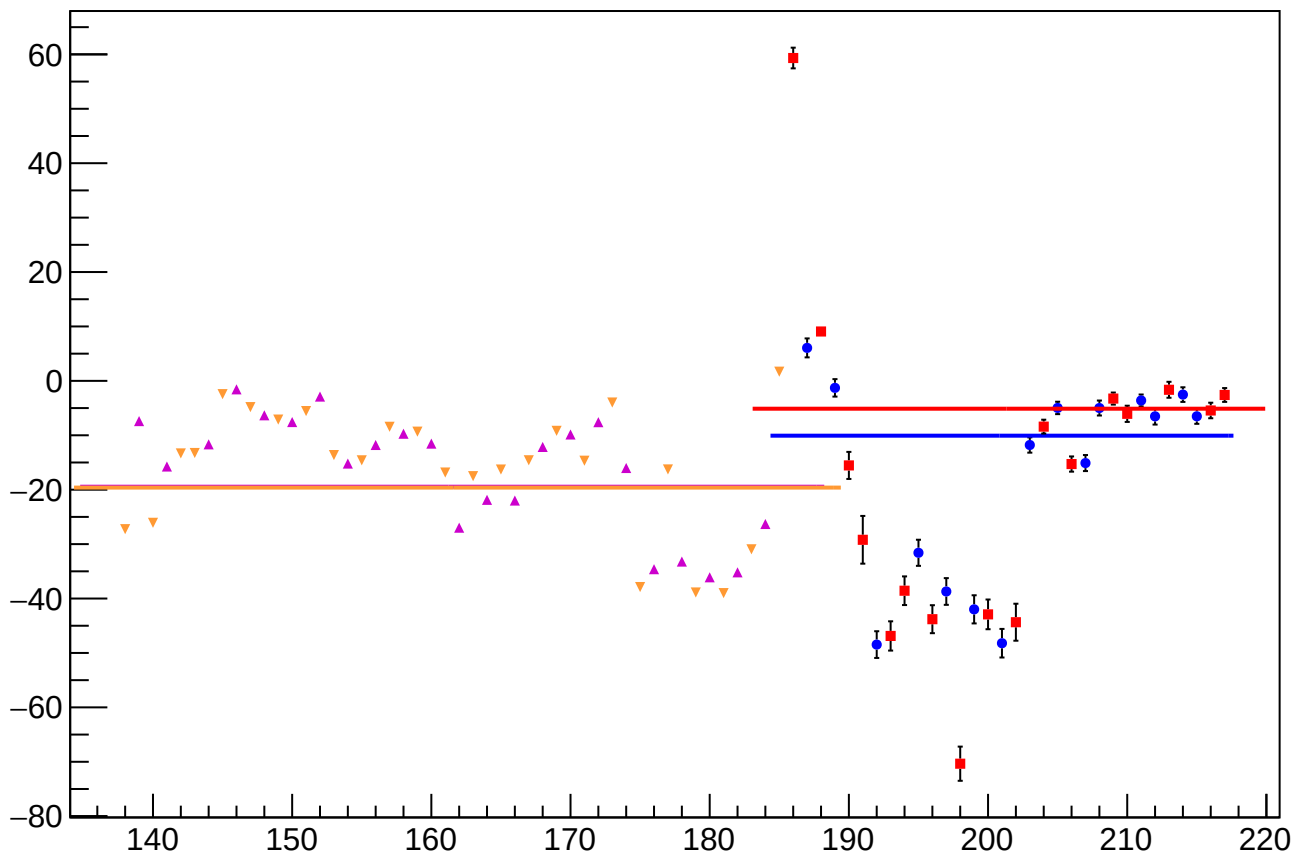
Right: 0.093 $\pm$ 0.004 χ^2 /NDF: 3828.4/67

In: 0.014 $\pm$ 0.001 χ^2 /NDF:3161.8/54

Out: 0.019 $\pm$ 0.001 χ^2 /NDF:3205.0/60

All: 0.017 $\pm$ 0.001 χ^2 /NDF: 6372.2/115

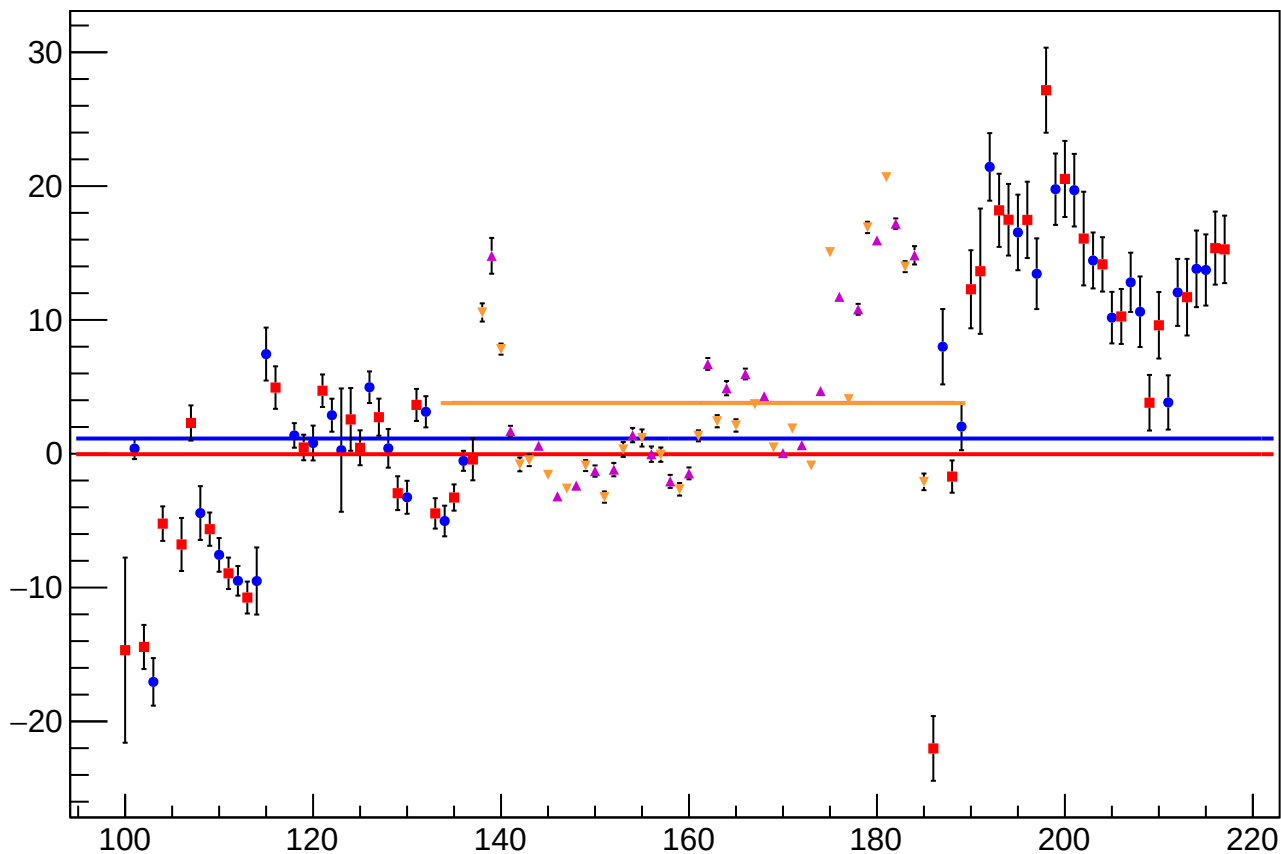
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.073 ± 0.404 $\chi^2/\text{NDF}: 1065.3/14$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.117 ± 0.389 $\chi^2/\text{NDF}: 2934.9/16$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$
 Right: -7.503 ± 0.280 $\chi^2/\text{NDF}: 4078.3/31$
 In: -18.856 ± 0.102 $\chi^2/\text{NDF}: 13853.5/37$
 Out: -18.659 ± 0.100 $\chi^2/\text{NDF}: 19992.9/41$
 All: -18.756 ± 0.071 $\chi^2/\text{NDF}: 33848.2/79$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.138 ± 0.264 $\chi^2/\text{NDF}: 728.4/31$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: -0.034 ± 0.268 $\chi^2/\text{NDF}: 902.3/35$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

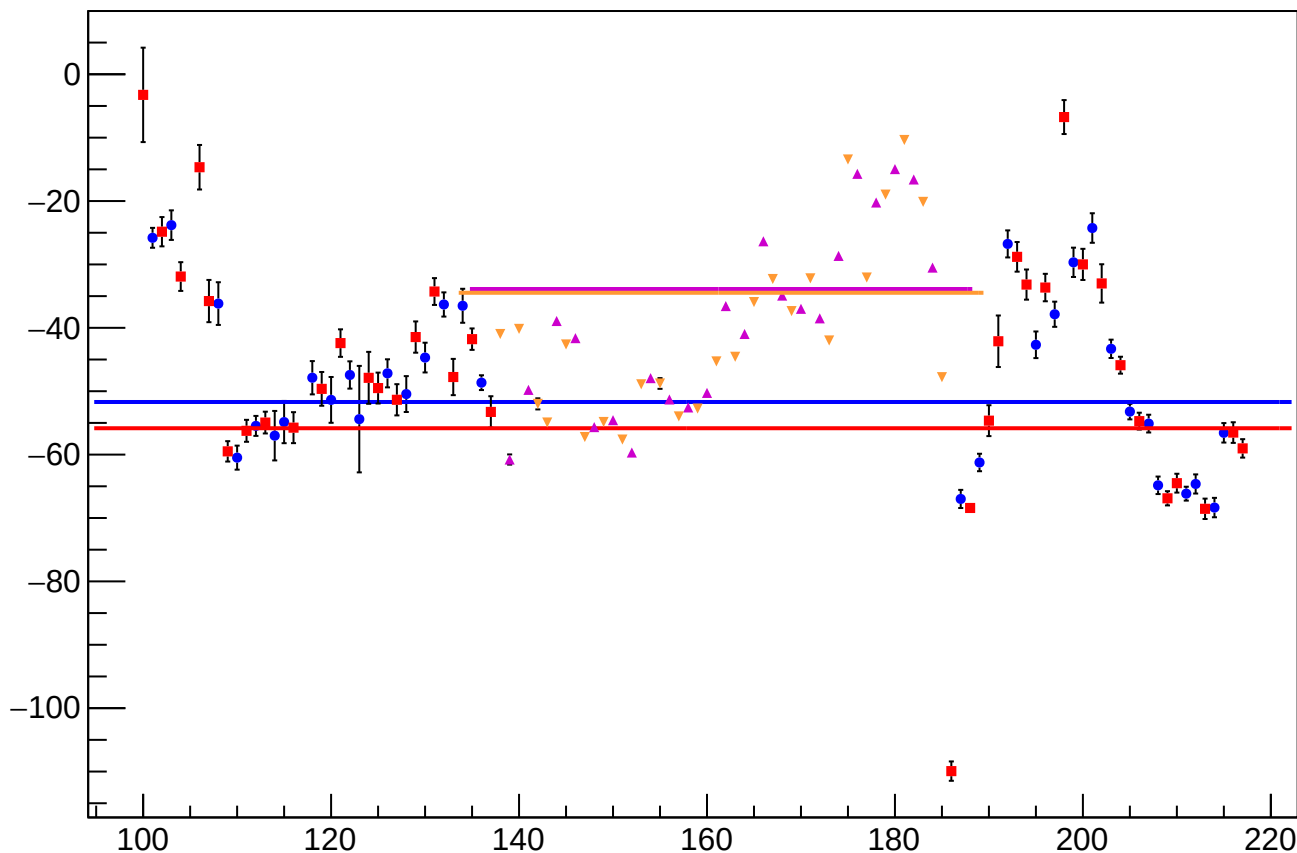
Right: 0.560 ± 0.188 $\chi^2/\text{NDF}: 1640.4/67$

In: 3.557 ± 0.080 $\chi^2/\text{NDF}: 6337.6/54$

Out: 3.461 ± 0.078 $\chi^2/\text{NDF}: 8238.7/60$

All: 3.508 ± 0.056 $\chi^2/\text{NDF}: 14577.0/115$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.700 ± 0.316 $\chi^2/\text{NDF}: 1692.6/31$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -55.841 ± 0.302 $\chi^2/\text{NDF}: 3485.7/35$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

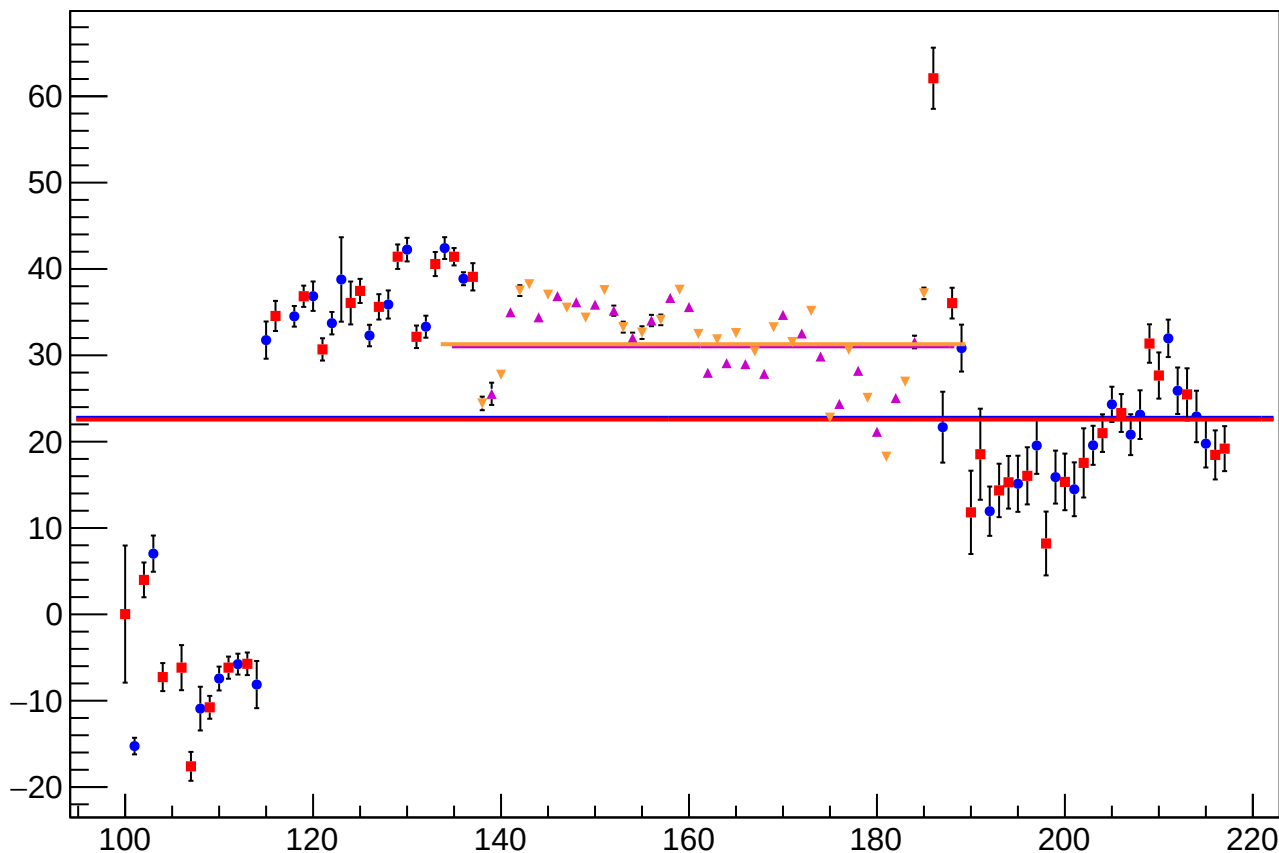
Right: -53.864 ± 0.218 $\chi^2/\text{NDF}: 5268.0/67$

In: -35.655 ± 0.100 $\chi^2/\text{NDF}: 22194.2/54$

Out: -36.734 ± 0.098 $\chi^2/\text{NDF}: 28156.7/60$

All: -36.203 ± 0.070 $\chi^2/\text{NDF}: 50410.1/115$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.762 $\pm$ 0.297 χ^2 /NDF: 4383.0/31

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.561 $\pm$ 0.305 χ^2 /NDF: 4282.0/35

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

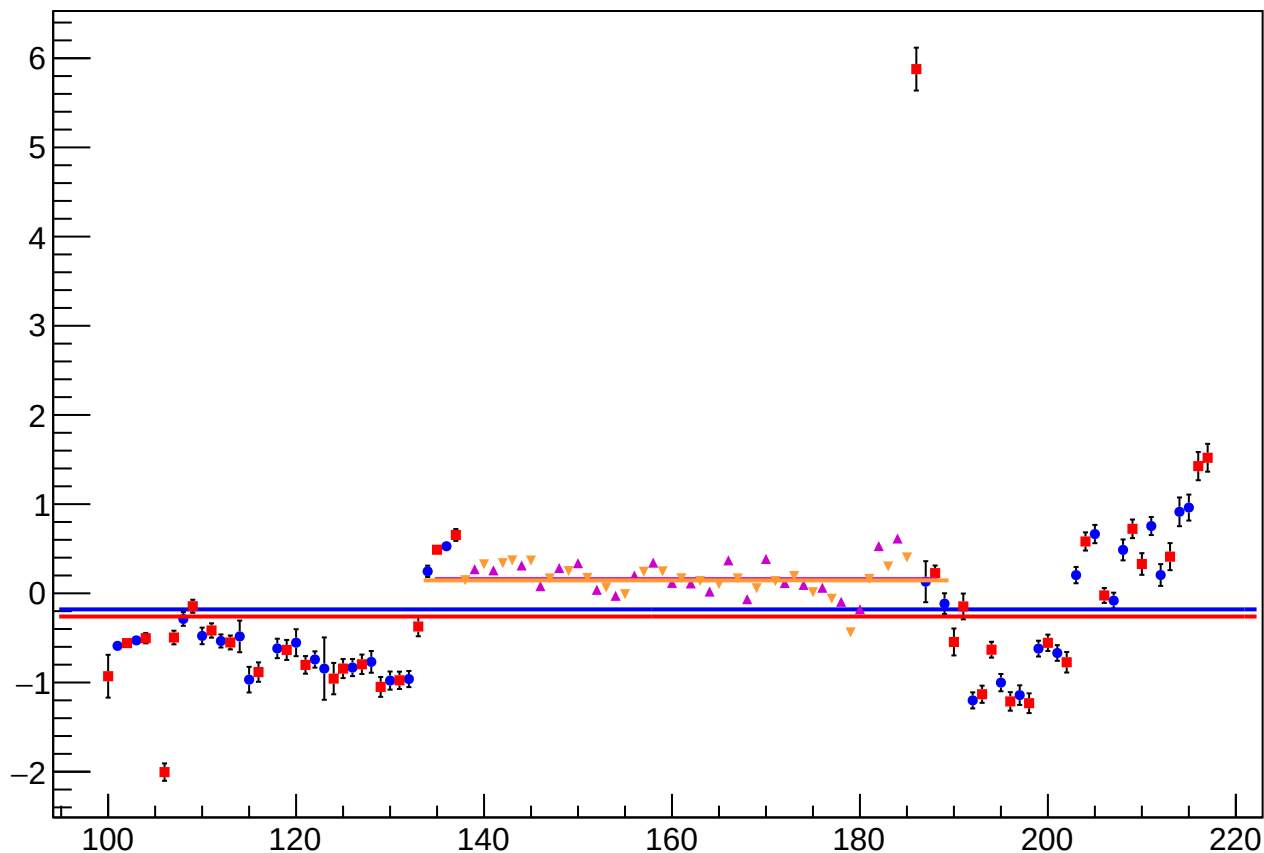
Right: 22.664 $\pm$ 0.213 χ^2 /NDF: 8665.2/67

In: 30.284 $\pm$ 0.090 χ^2 /NDF:7567.1/54

Out: 30.552 $\pm$ 0.088 χ^2 /NDF:8378.6/60

All: 30.420 $\pm$ 0.063 χ^2 /NDF: 15950.2/115

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.180 ± 0.015 χ^2/NDF : 1650.3/31

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.260 ± 0.015 χ^2/NDF : 2619.0/35

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

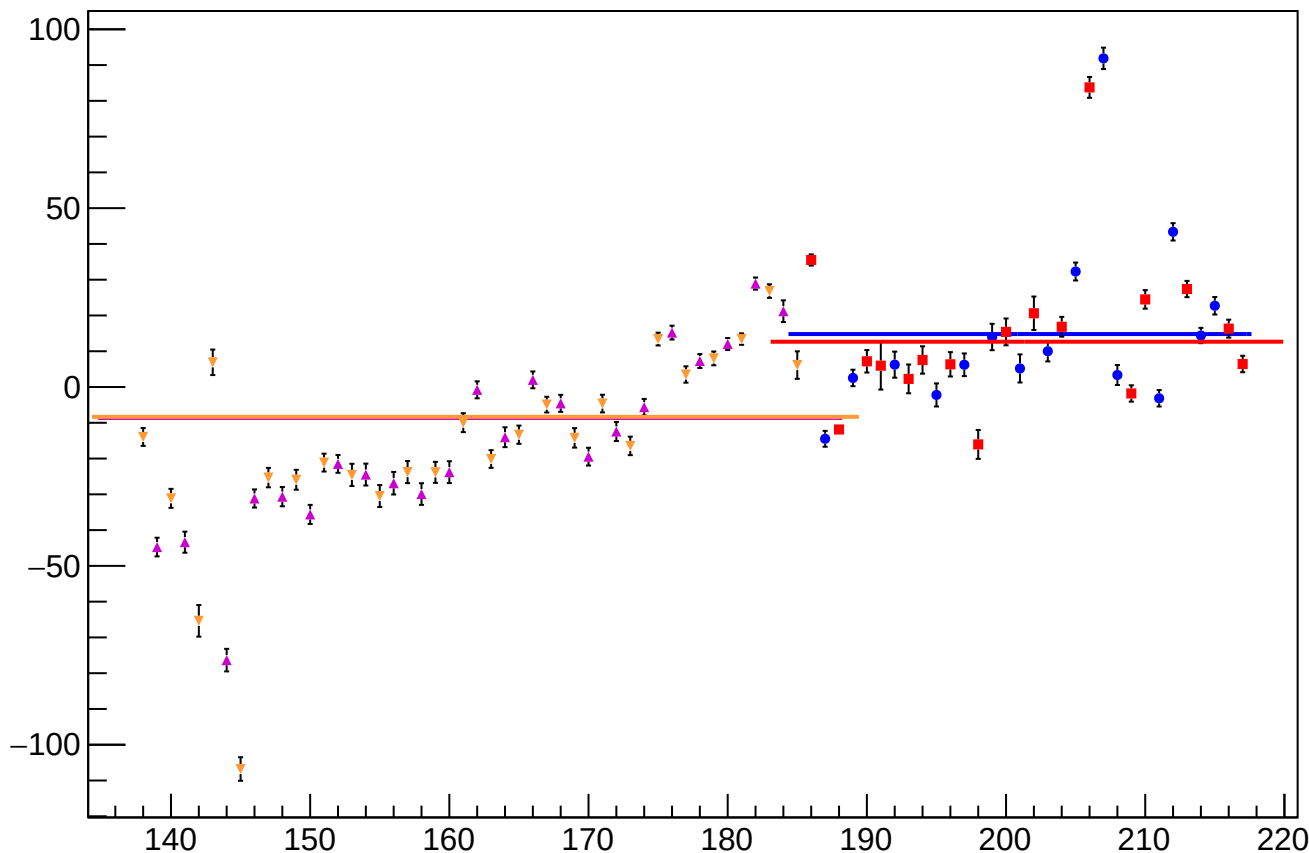
Right: -0.220 ± 0.011 χ^2/NDF : 4283.6/67

In: 0.133 ± 0.004 χ^2/NDF : 4135.6/54

Out: 0.116 ± 0.004 χ^2/NDF : 4867.1/60

All: 0.124 ± 0.003 χ^2/NDF : 9011.1/115

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.805 $\pm$ 0.696 χ^2 /NDF: 1192.5/14

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.663 $\pm$ 0.608 χ^2 /NDF: 1384.2/16

Left In: -8.652 $\pm$ 0.507 χ^2 /NDF: 2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

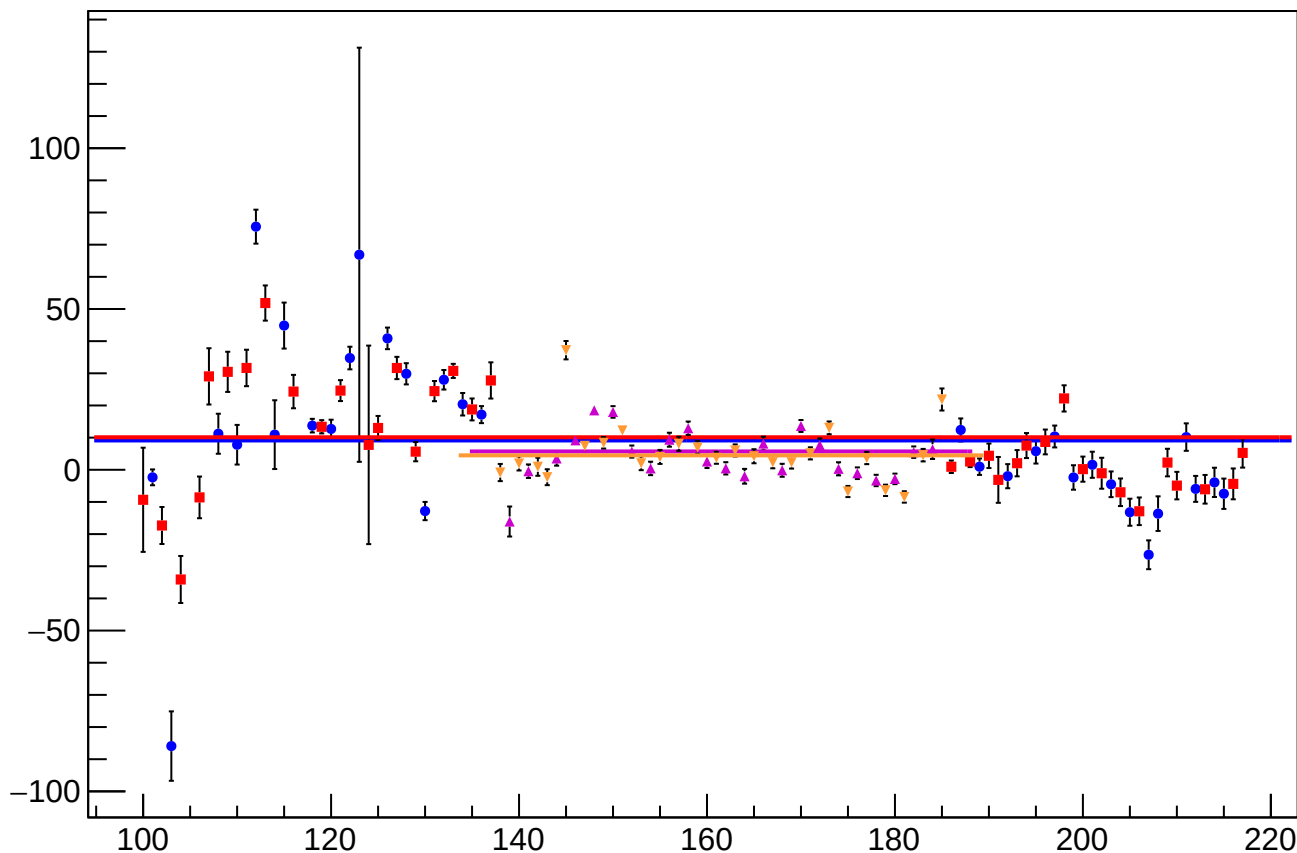
Right: 13.590 $\pm$ 0.458 χ^2 /NDF: 2582.1/31

In: -0.511 $\pm$ 0.410 χ^2 /NDF: 4158.6/37

Out: 0.132 $\pm$ 0.386 χ^2 /NDF: 4322.5/41

All: -0.170 $\pm$ 0.281 χ^2 /NDF: 8482.4/79

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.118 ± 0.652 $\chi^2/\text{NDF}: 778.1/31$

Left Out: 4.484 ± 0.392 $\chi^2/\text{NDF}: 371.9/24$

Right Out: 10.111 ± 0.614 $\chi^2/\text{NDF}: 510.1/35$

Left In: 5.705 ± 0.404 $\chi^2/\text{NDF}: 324.1/22$

Left: 5.076 ± 0.281 $\chi^2/\text{NDF}: 700.6/47$

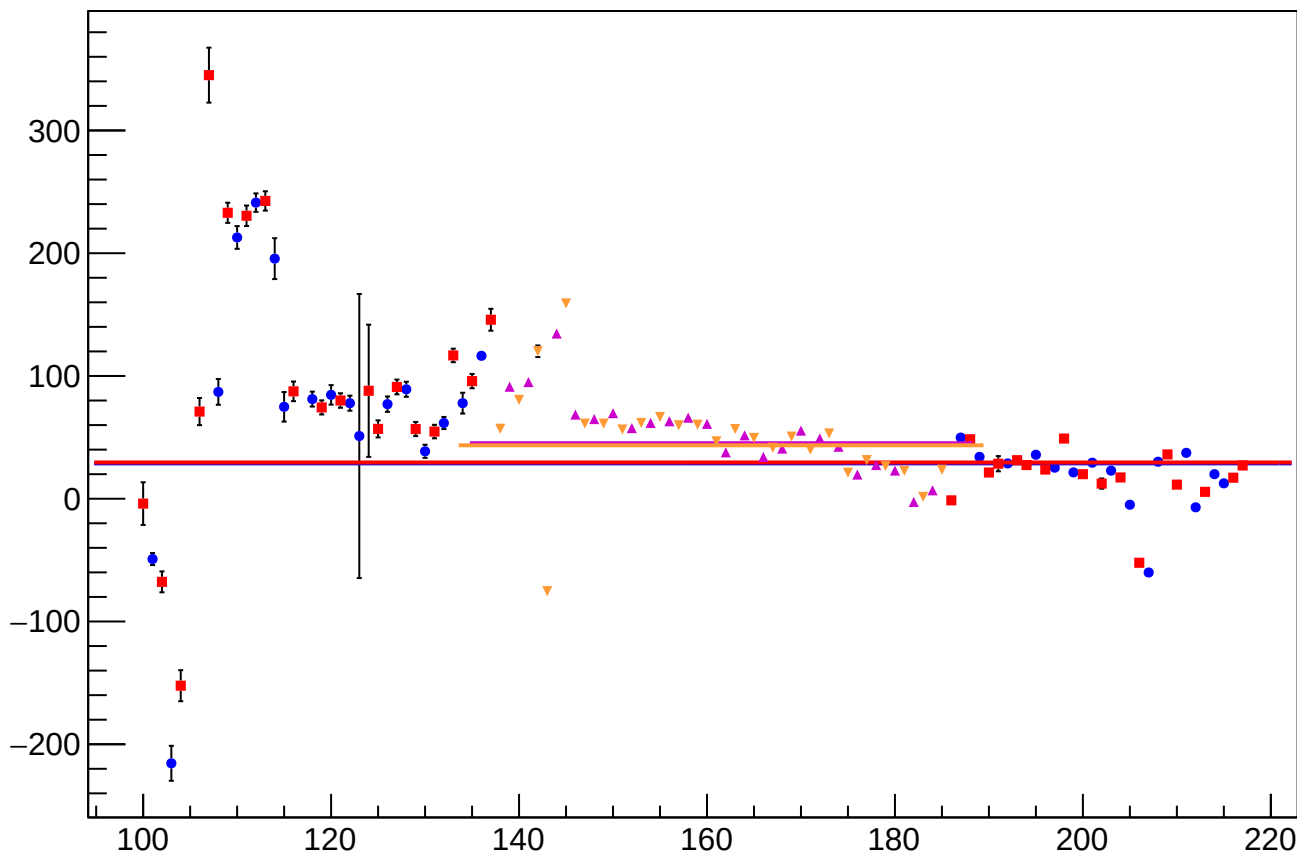
Right: 9.644 ± 0.447 $\chi^2/\text{NDF}: 1289.4/67$

In: 6.652 ± 0.344 $\chi^2/\text{NDF}: 1122.0/54$

Out: 6.113 ± 0.331 $\chi^2/\text{NDF}: 941.5/60$

All: 6.372 ± 0.238 $\chi^2/\text{NDF}: 2064.8/115$

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.796 ± 0.613 $\chi^2/\text{NDF}: 4346.4/31$

Left Out: 43.524 ± 0.498 $\chi^2/\text{NDF}: 3830.7/24$

Right Out: 29.545 ± 0.524 $\chi^2/\text{NDF}: 5466.8/35$

Left In: 45.211 ± 0.504 $\chi^2/\text{NDF}: 3048.5/22$

Left: 44.358 ± 0.354 $\chi^2/\text{NDF}: 6884.8/47$

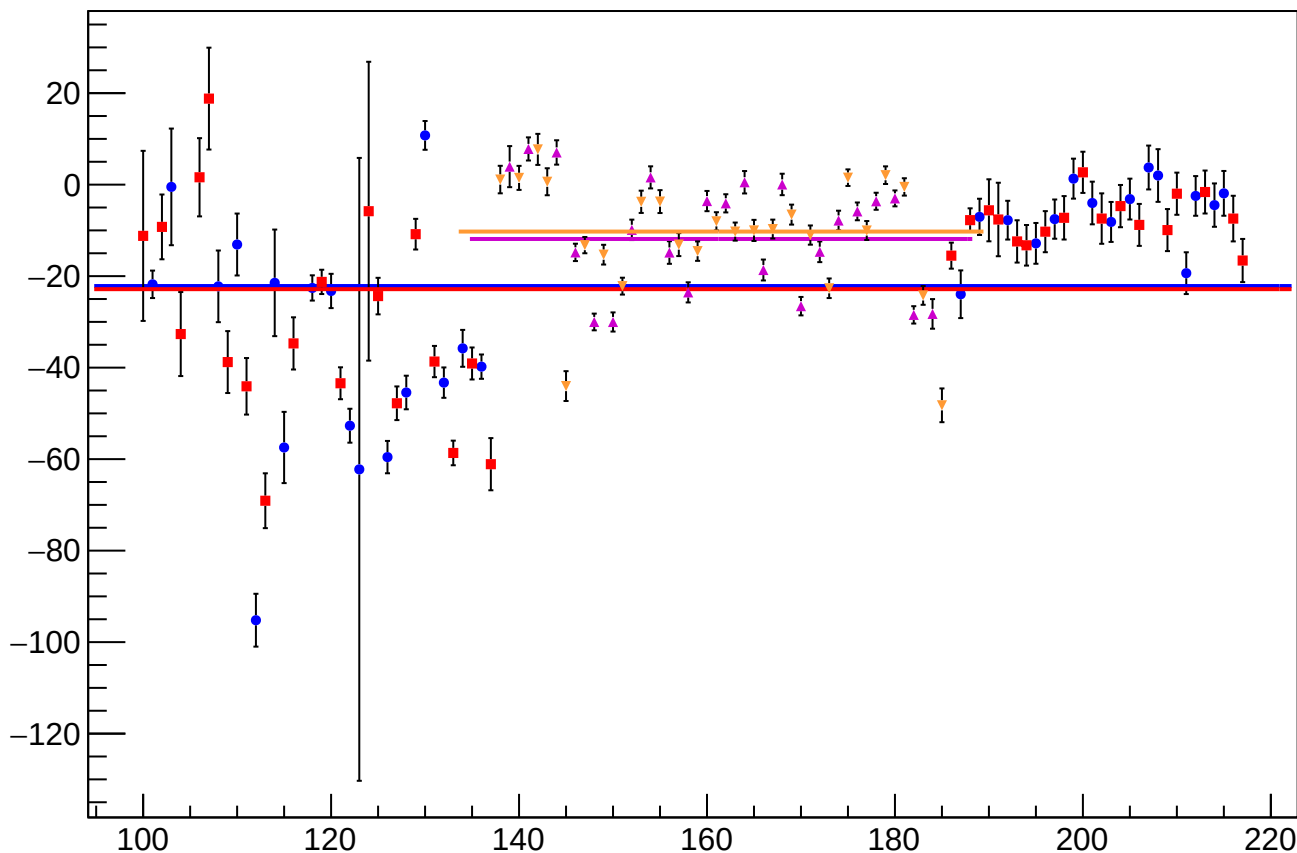
Right: 29.229 ± 0.398 $\chi^2/\text{NDF}: 9814.1/67$

In: 38.587 ± 0.389 $\chi^2/\text{NDF}: 7822.5/54$

Out: 36.881 ± 0.361 $\chi^2/\text{NDF}: 9671.4/60$

All: 37.669 ± 0.265 $\chi^2/\text{NDF}: 17504.2/115$

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.163 ± 0.755 $\chi^2/\text{NDF}: 824.5/31$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -22.848 ± 0.735 $\chi^2/\text{NDF}: 672.2/35$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

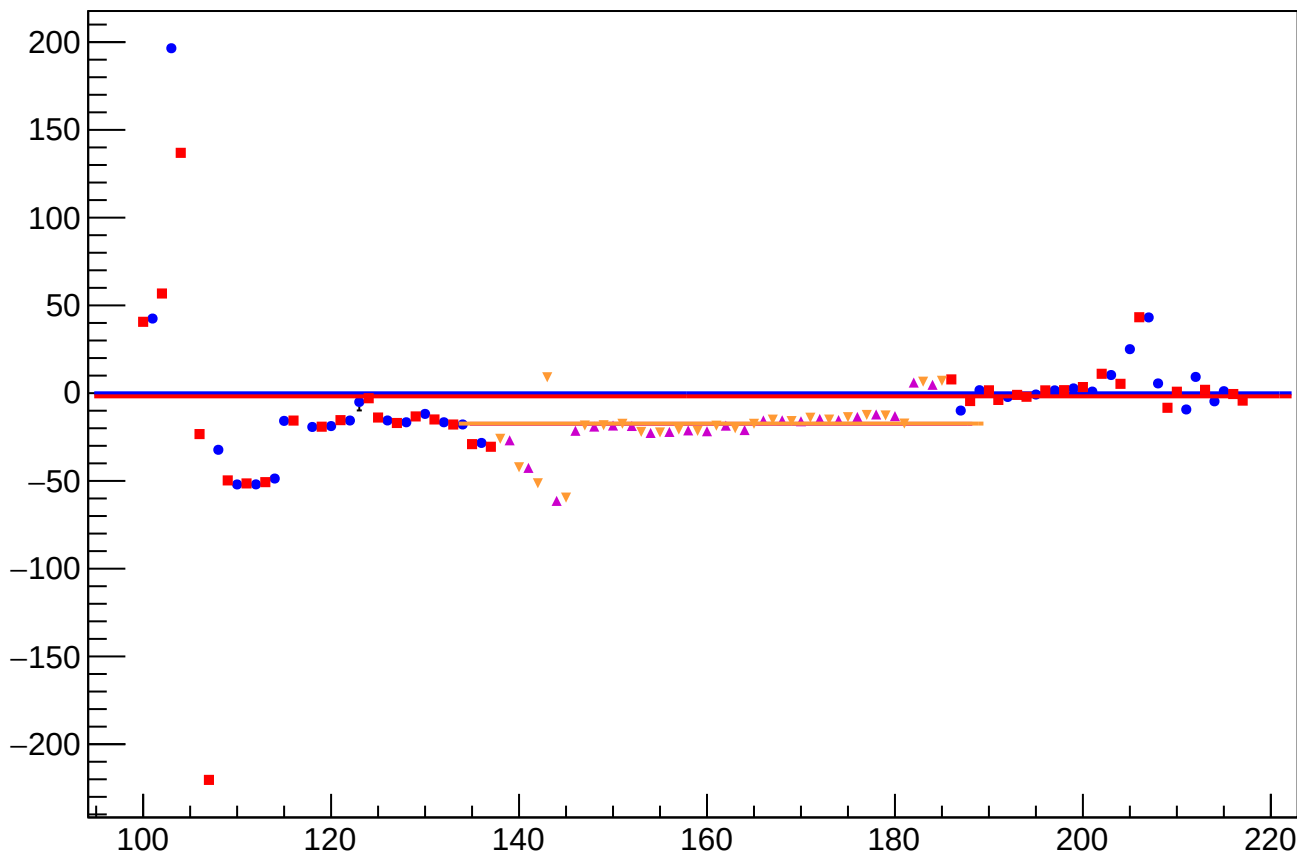
Right: -22.514 ± 0.526 $\chi^2/\text{NDF}: 1497.2/67$

In: -14.629 ± 0.390 $\chi^2/\text{NDF}: 1626.8/54$

Out: -13.629 ± 0.380 $\chi^2/\text{NDF}: 1439.8/60$

All: -14.116 ± 0.272 $\chi^2/\text{NDF}: 3070.0/115$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.093 ± 0.036 χ^2/NDF : 678312.7/31

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.817 ± 0.034 χ^2/NDF : 672412.7/35

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

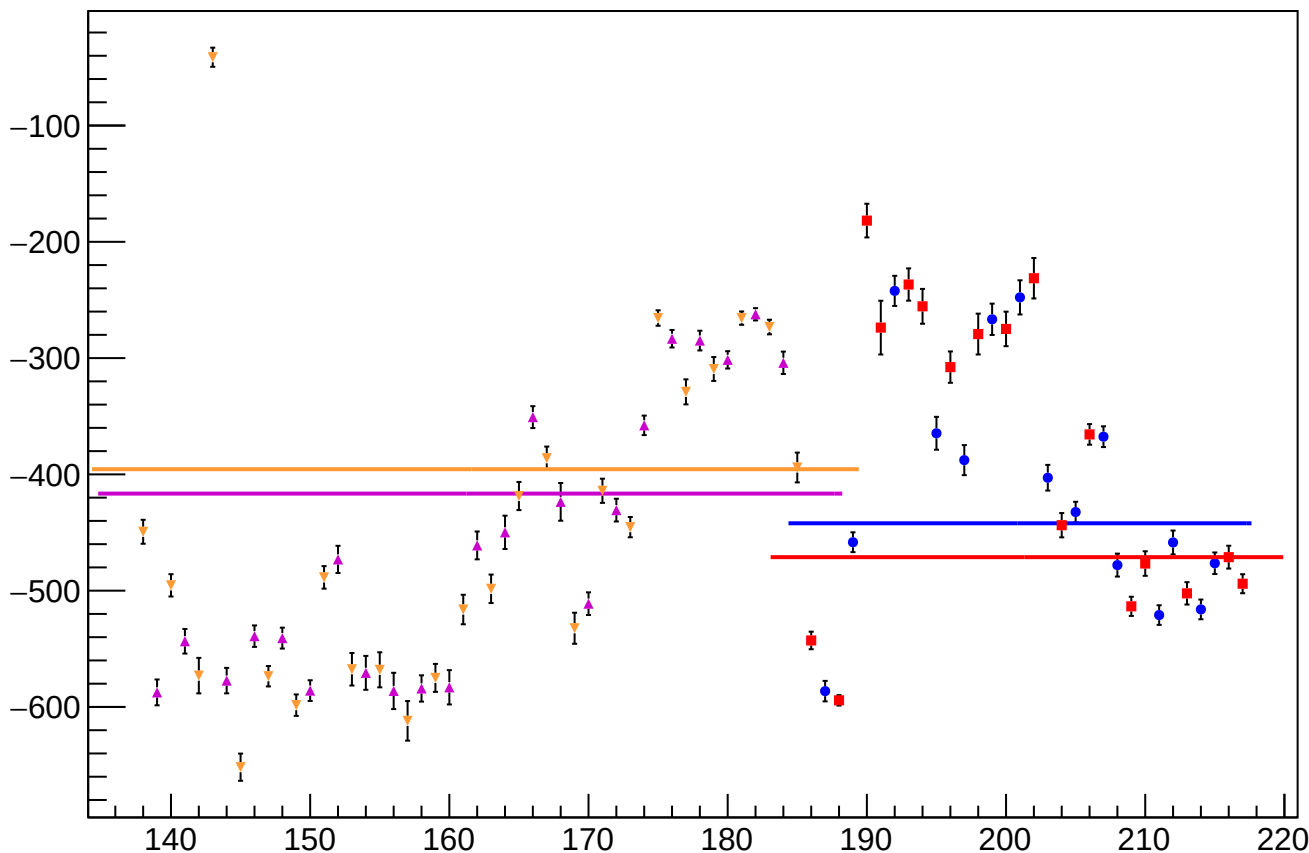
Right: -0.981 ± 0.025 χ^2/NDF : 1351937.4/67

In: -13.092 ± 0.018 χ^2/NDF : 1116570.0/54

Out: -13.309 ± 0.018 χ^2/NDF : 1147636.7/60

All: -13.202 ± 0.013 χ^2/NDF : 2264281.5/115

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -442.049+/-2.611 χ^2/NDF : 1178.9/14

Left Out: -395.547+/-1.953 χ^2/NDF : 5946.5/24

Right Out: -471.183+/-2.345 χ^2/NDF : 2634.0/16

Left In: -416.521+/-2.005 χ^2/NDF : 3917.0/22

Left: -405.762+/-1.399 χ^2/NDF : 9919.7/47

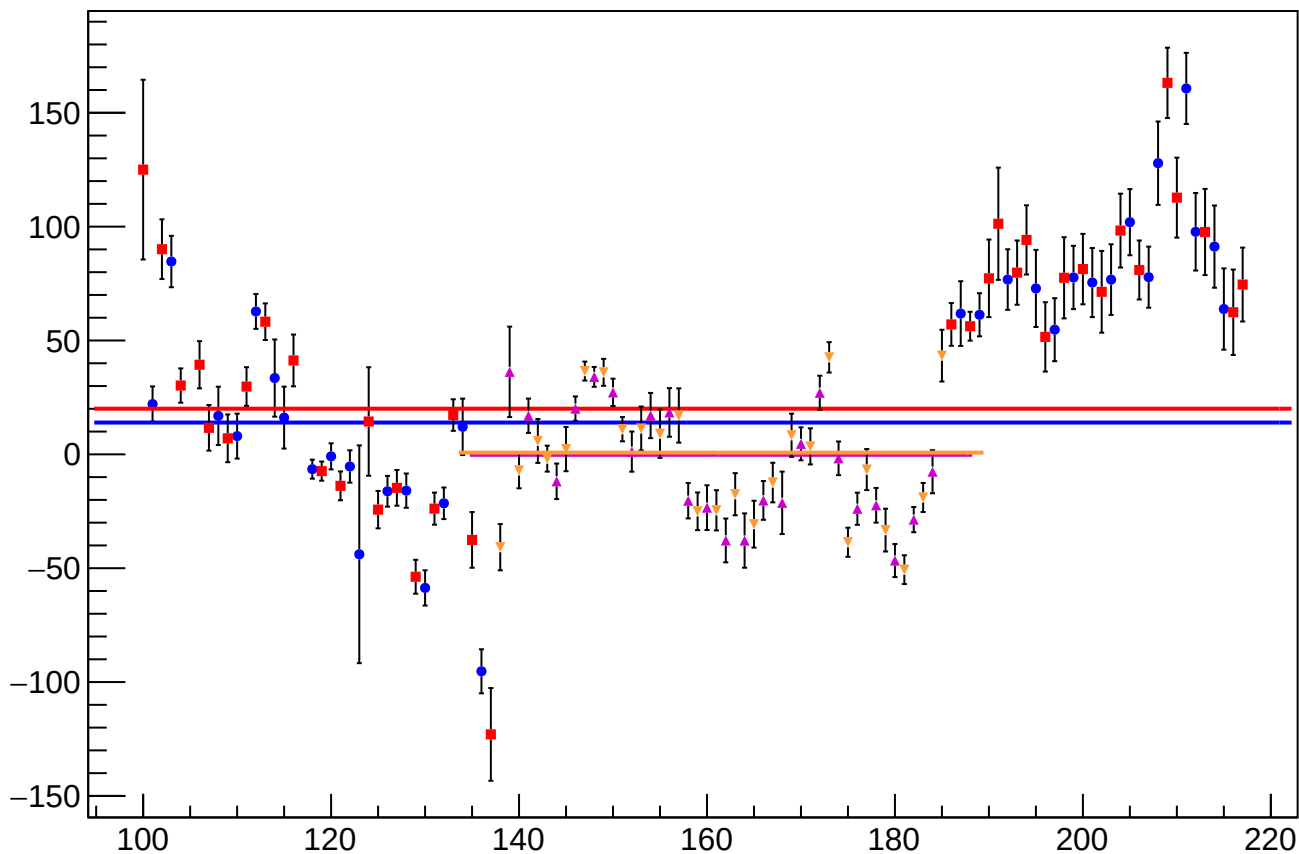
Right: -458.176+/-1.744 χ^2/NDF : 3881.9/31

In: -425.990+/-1.590 χ^2/NDF : 5156.1/37

Out: -426.537+/-1.501 χ^2/NDF : 9194.8/41

All: -426.279+/-1.091 χ^2/NDF : 14350.9/79

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.963 $\pm$ 1.713 χ^2 /NDF: 769.4/31

Left Out: 0.767 $\pm$ 1.503 χ^2 /NDF:350.1/24

Right Out: 20.050 $\pm$ 1.657 χ^2 /NDF: 742.5/35

Left In: -0.202 $\pm$ 1.575 χ^2 /NDF:260.8/22

Left: 0.305 $\pm$ 1.087 χ^2 /NDF: 611.1/47

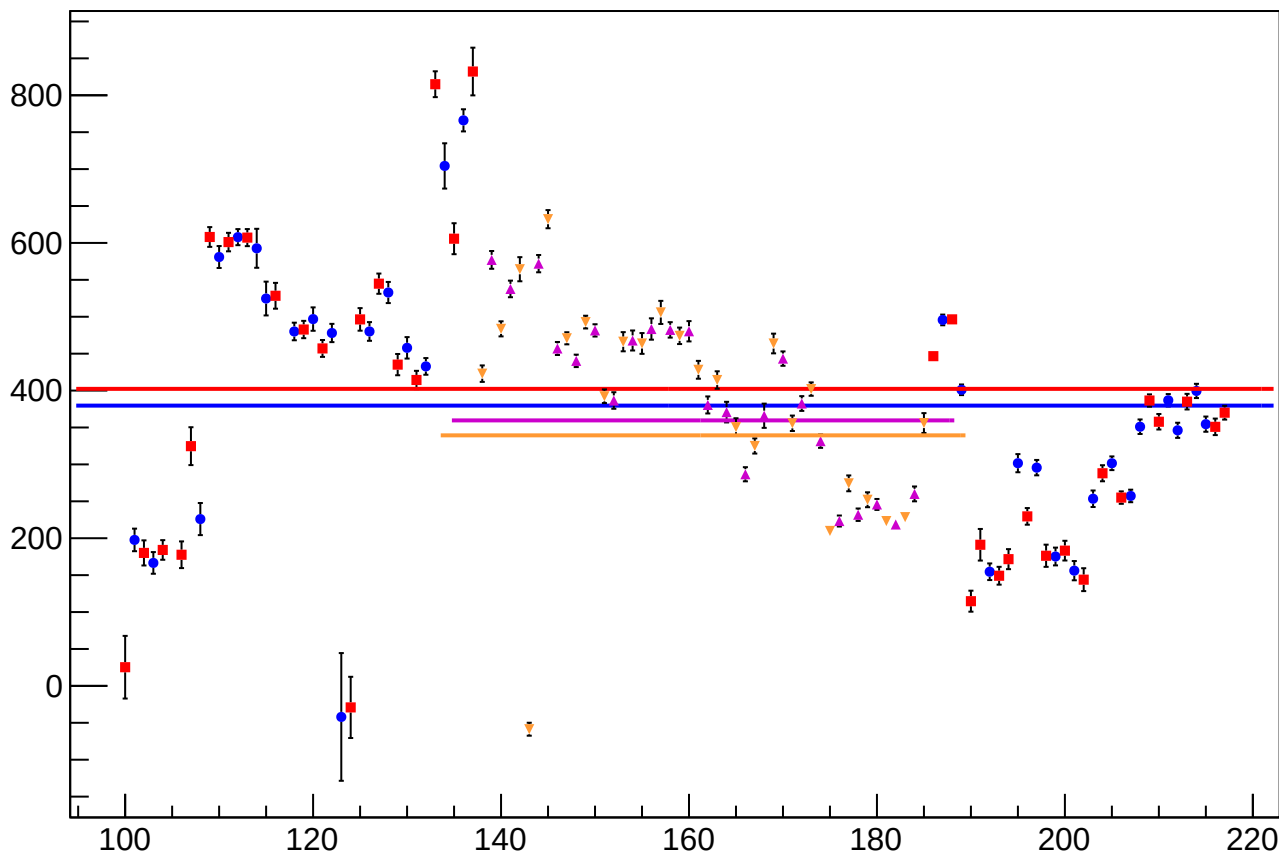
Right: 17.109 $\pm$ 1.191 χ^2 /NDF: 1518.5/67

In: 6.286 $\pm$ 1.160 χ^2 /NDF:1067.3/54

Out: 9.470 $\pm$ 1.113 χ^2 /NDF:1166.9/60

All: 7.943 $\pm$ 0.803 χ^2 /NDF: 2238.1/115

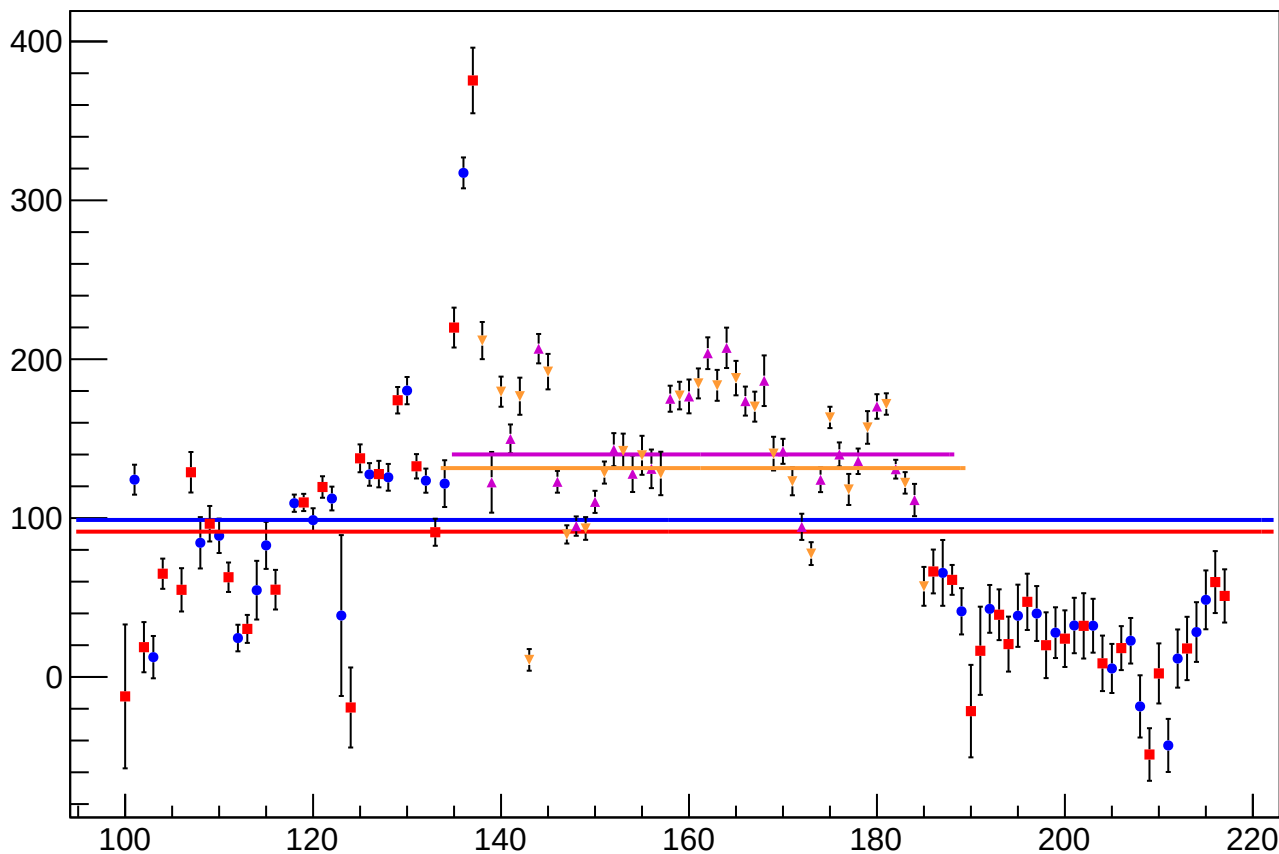
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 379.629 ± 2.056 $\chi^2/\text{NDF}: 4135.1/31$
 Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$
 Right Out: 402.323 ± 1.826 $\chi^2/\text{NDF}: 6144.5/35$
 Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$
 Right: 392.314 ± 1.366 $\chi^2/\text{NDF}: 10347.7/67$
 In: 369.355 ± 1.435 $\chi^2/\text{NDF}: 7582.3/54$
 Out: 373.100 ± 1.337 $\chi^2/\text{NDF}: 12198.6/60$
 All: 371.359 ± 0.978 $\chi^2/\text{NDF}: 19784.5/115$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.830+/-1.988 χ^2/NDF : 1098.9/31

Left Out: 131.464+/-1.728 χ^2/NDF : 809.3/24

Right Out: 91.463+/-1.939 χ^2/NDF : 903.7/35

Left In: 140.069+/-1.795 χ^2/NDF : 316.5/22

Left: 135.602+/-1.245 χ^2/NDF : 1137.8/47

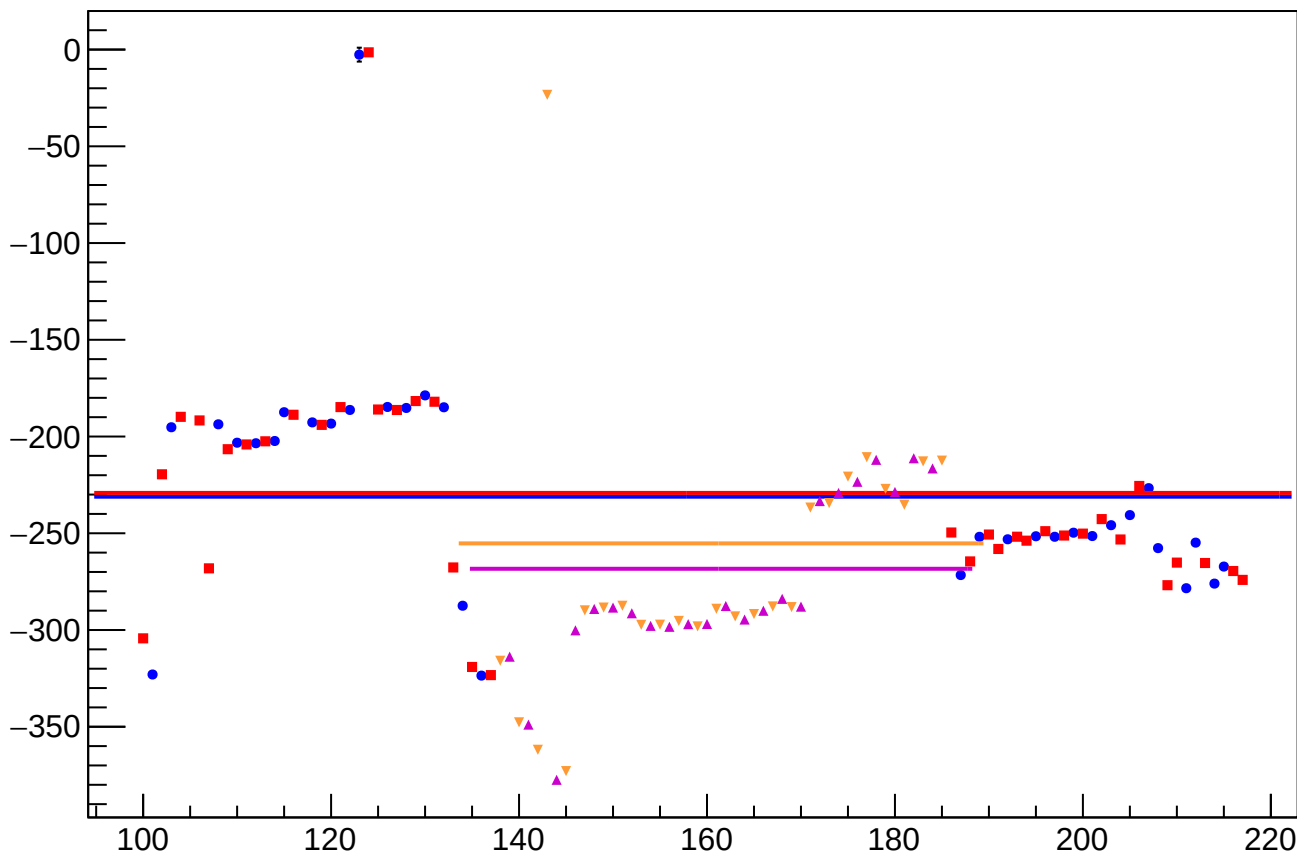
Right: 95.056+/-1.388 χ^2/NDF : 2009.6/67

In: 121.545+/-1.332 χ^2/NDF : 1652.5/54

Out: 113.766+/-1.290 χ^2/NDF : 1950.2/60

All: 117.530+/-0.927 χ^2/NDF : 3620.3/115

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -231.086 $\pm$ 0.105 χ^2 /NDF: 176615.4/31

Left Out: -255.232 $\pm$ 0.082 χ^2 /NDF: 728016.7/24

Right Out: -229.139 $\pm$ 0.100 χ^2 /NDF: 159998.6/35

Left In: -268.353 $\pm$ 0.084 χ^2 /NDF: 262479.3/22

Left: -261.661 $\pm$ 0.059 χ^2 /NDF: 1003051.2/47

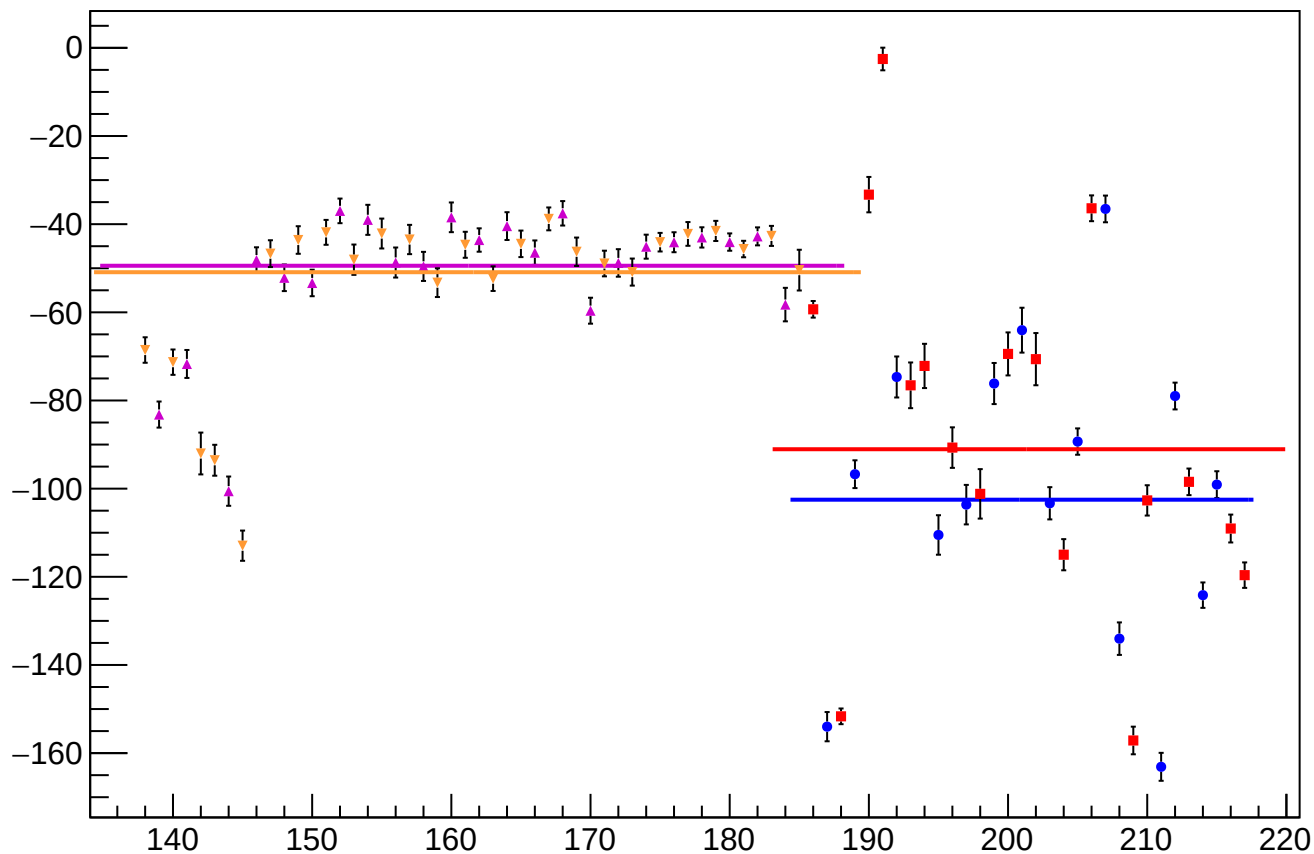
Right: -230.066 $\pm$ 0.073 χ^2 /NDF: 336793.3/67

In: -253.943 $\pm$ 0.065 χ^2 /NDF: 515888.9/54

Out: -244.794 $\pm$ 0.063 χ^2 /NDF: 928557.8/60

All: -249.227 $\pm$ 0.046 χ^2 /NDF: 1454507.0/111

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -102.507 ± 0.902 $\chi^2/\text{NDF}: 1421.5/14$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -91.058 ± 0.756 $\chi^2/\text{NDF}: 3880.3/16$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

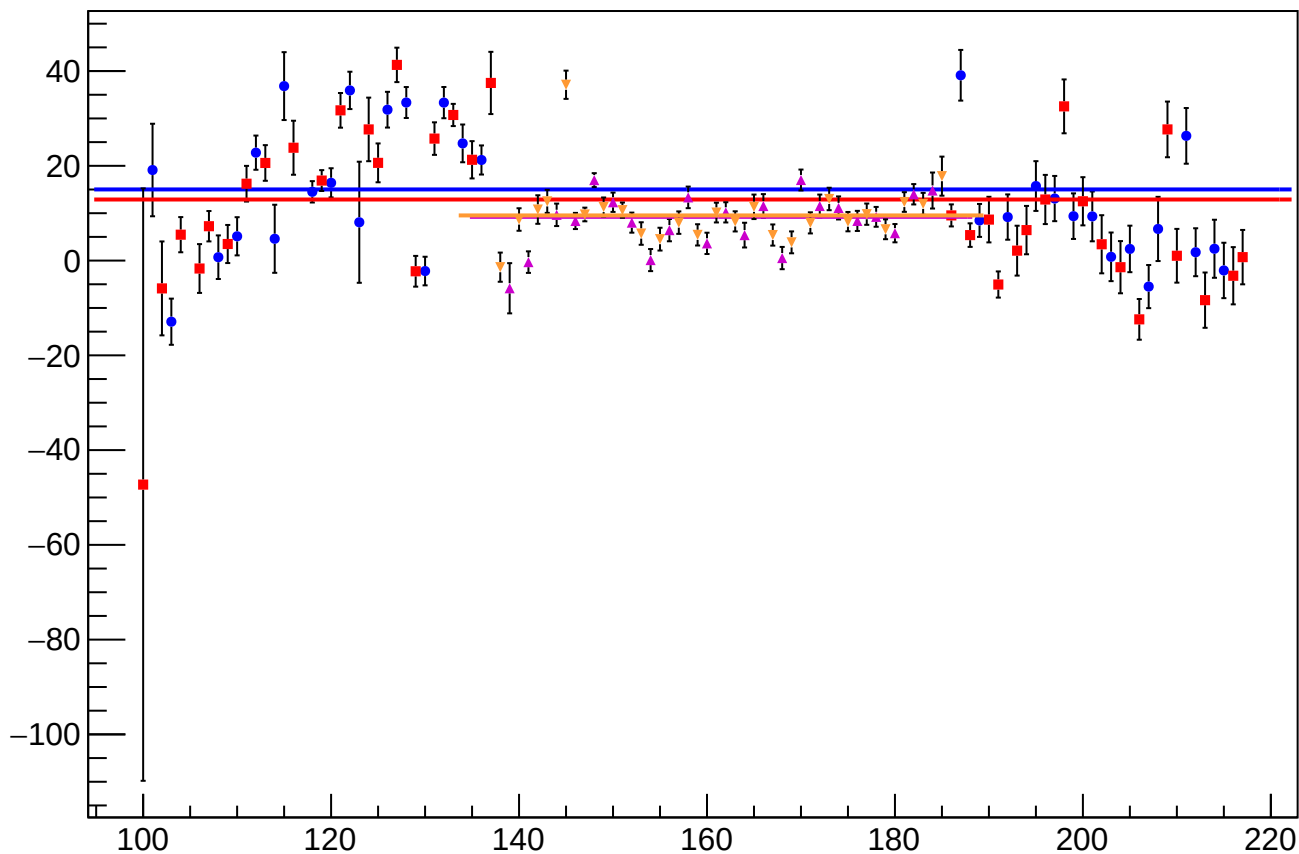
Right: -95.779 ± 0.580 $\chi^2/\text{NDF}: 5396.3/31$

In: -65.095 ± 0.490 $\chi^2/\text{NDF}: 4403.1/37$

Out: -65.544 ± 0.457 $\chi^2/\text{NDF}: 6434.4/41$

All: -65.335 ± 0.334 $\chi^2/\text{NDF}: 10837.9/79$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.017 $\pm$ 0.750 χ^2 /NDF: 305.7/31

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 12.890 $\pm$ 0.659 χ^2 /NDF: 396.6/35

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

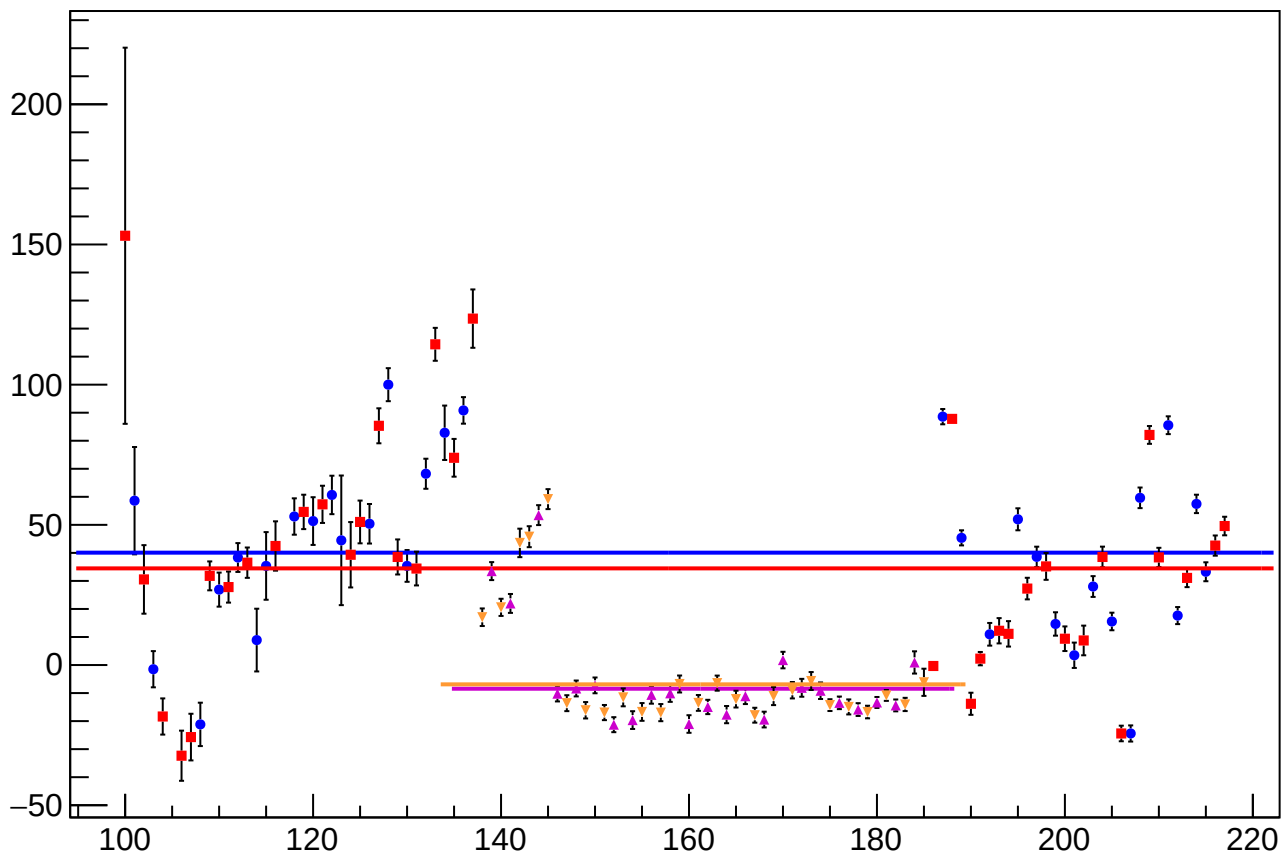
Right: 13.817 $\pm$ 0.495 χ^2 /NDF: 706.8/67

In: 10.822 $\pm$ 0.393 χ^2 /NDF:472.8/54

Out: 10.586 $\pm$ 0.369 χ^2 /NDF:548.8/60

All: 10.696 $\pm$ 0.269 χ^2 /NDF: 1021.8/115

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.082 $\pm$ 0.769 χ^2 /NDF: 1777.7/31

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 34.472 $\pm$ 0.633 χ^2 /NDF: 3624.4/35

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

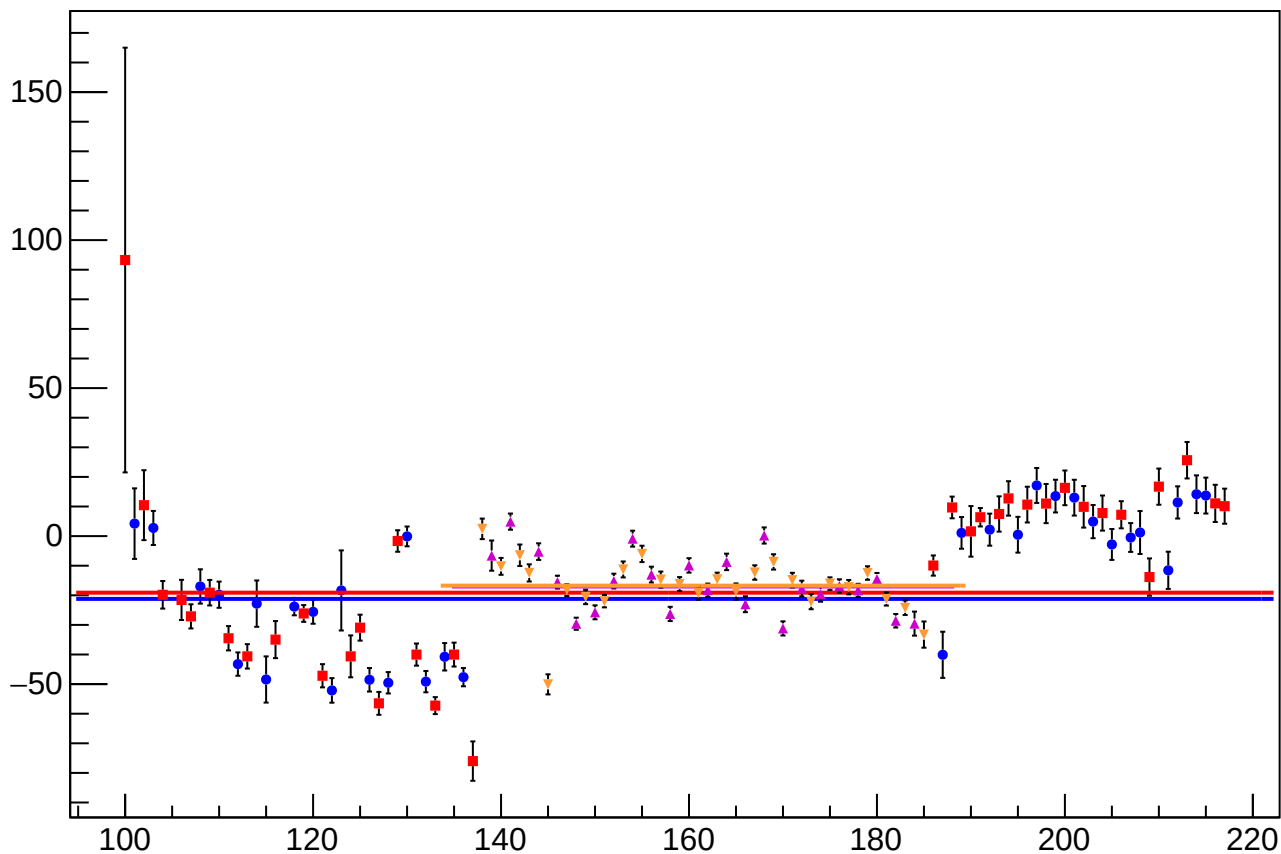
Right: 36.737 $\pm$ 0.489 χ^2 /NDF: 5433.9/67

In: 9.145 $\pm$ 0.463 χ^2 /NDF: 5006.8/54

Out: 11.674 $\pm$ 0.424 χ^2 /NDF: 6893.5/60

All: 10.520 $\pm$ 0.313 χ^2 /NDF: 11916.5/115

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.209 ± 0.858 χ^2/NDF : 756.2/31

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -19.108 ± 0.777 χ^2/NDF : 1038.1/35

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

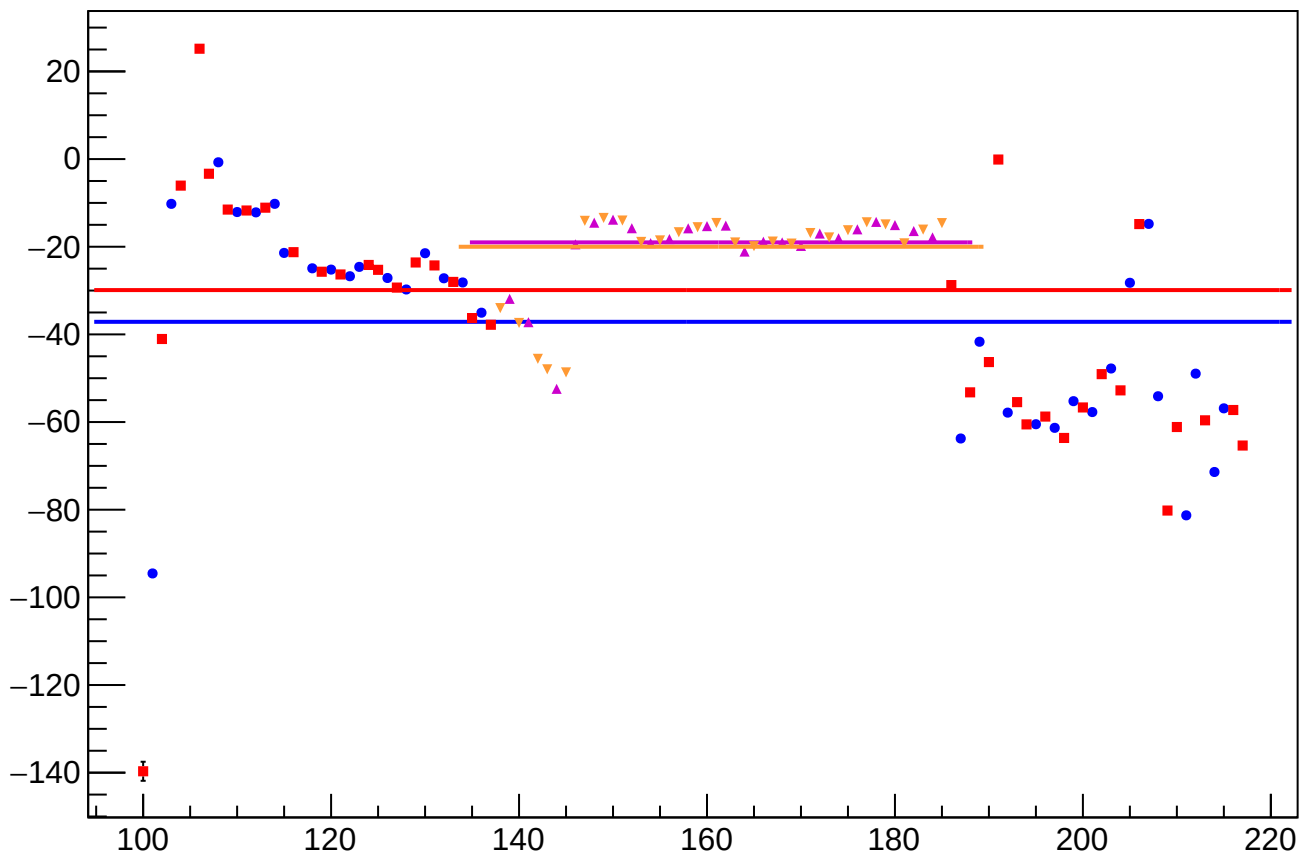
Right: -20.054 ± 0.576 χ^2/NDF : 1797.6/67

In: -18.153 ± 0.446 χ^2/NDF : 1101.1/54

Out: -17.442 ± 0.424 χ^2/NDF : 1268.0/60

All: -17.780 ± 0.307 χ^2/NDF : 2370.4/115

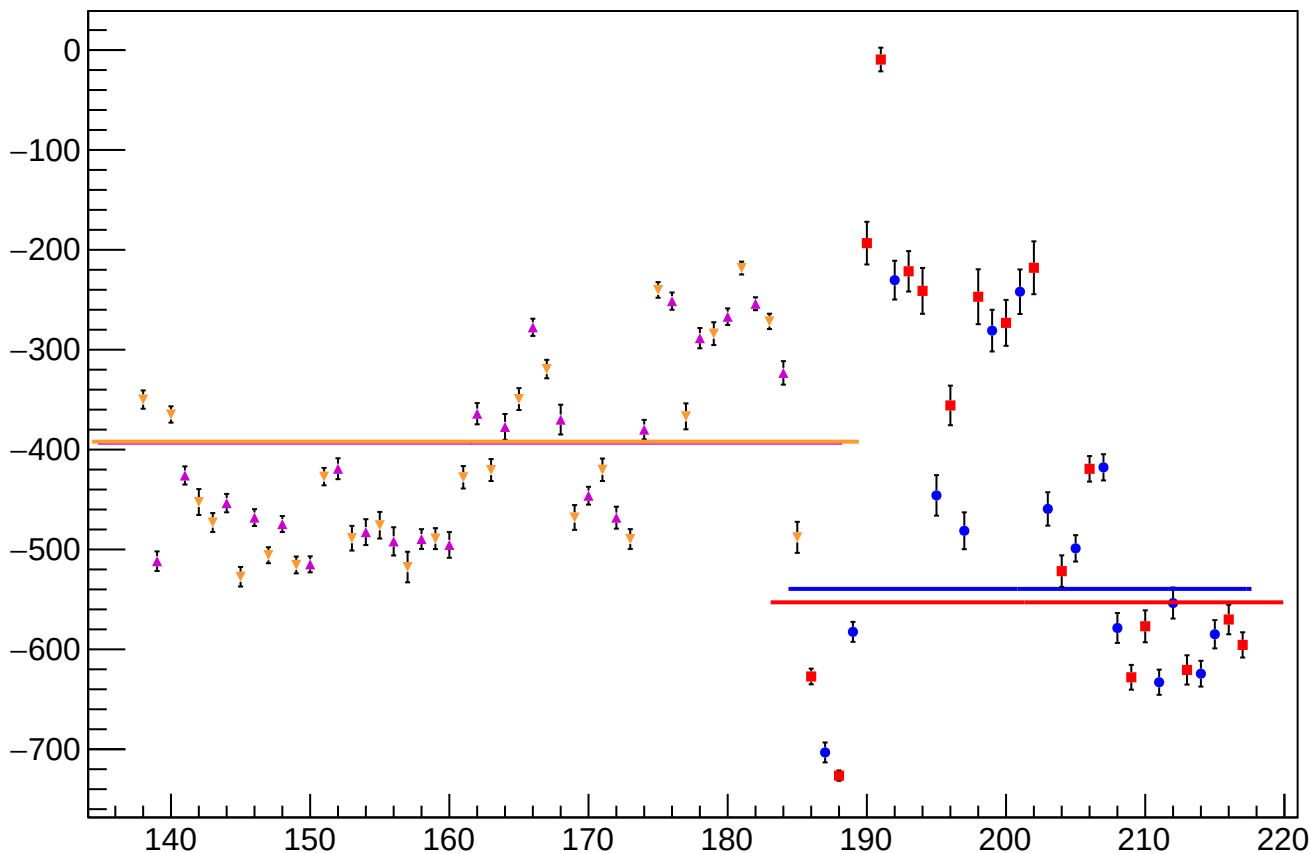
reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.133 ± 0.041 $\chi^2/\text{NDF}: 258814.0/31$
 Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$
 Right Out: -29.892 ± 0.036 $\chi^2/\text{NDF}: 485899.5/35$
 Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$
 Right: -33.049 ± 0.027 $\chi^2/\text{NDF}: 762573.3/67$
 In: -23.591 ± 0.020 $\chi^2/\text{NDF}: 497932.0/54$
 Out: -22.949 ± 0.020 $\chi^2/\text{NDF}: 685138.2/60$
 All: -23.255 ± 0.014 $\chi^2/\text{NDF}: 1183584.9/115$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -539.465+/-3.691 χ^2 /NDF: 1139.6/14

Left Out: -392.054+/-1.967 χ^2 /NDF:2717.2/24

Right Out: -552.938+/-3.011 χ^2 /NDF: 4766.2/16

Left In: -393.113+/-2.006 χ^2 /NDF:2253.3/22

Left: -392.573+/-1.404 χ^2 /NDF: 4970.6/47

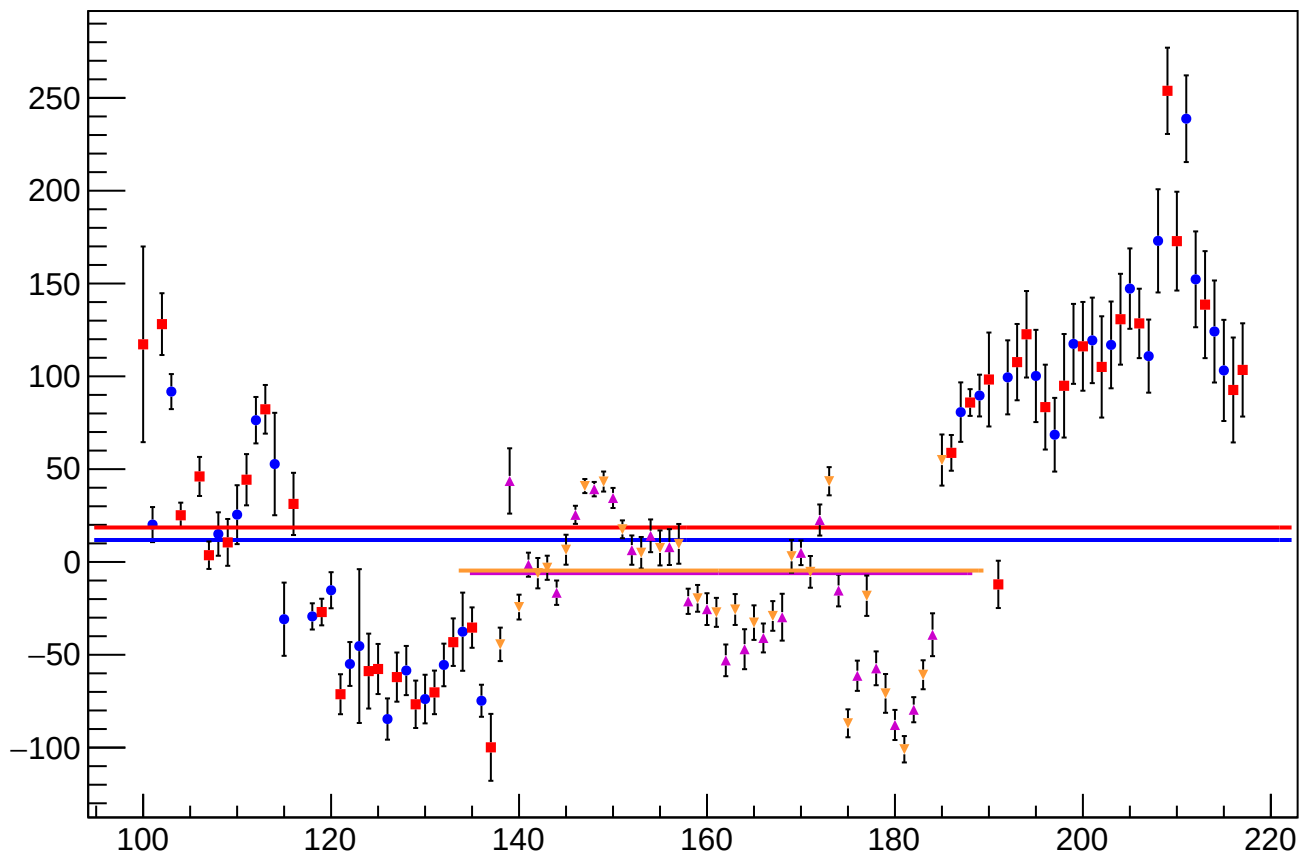
Right: -547.554+/-2.333 χ^2 /NDF: 5913.8/31

In: -426.480+/-1.762 χ^2 /NDF:4607.0/37

Out: -440.166+/-1.646 χ^2 /NDF:9484.8/41

All: -433.787+/-1.203 χ^2 /NDF: 14124.0/79

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.836 $\pm$ 2.488 χ^2 /NDF: 891.7/31

Left Out: -4.624 $\pm$ 1.462 χ^2 /NDF: 772.9/24

Right Out: 18.571 $\pm$ 2.199 χ^2 /NDF: 913.0/35

Left In: -6.019 $\pm$ 1.516 χ^2 /NDF: 654.1/22

Left: -5.296 $\pm$ 1.053 χ^2 /NDF: 1427.4/47

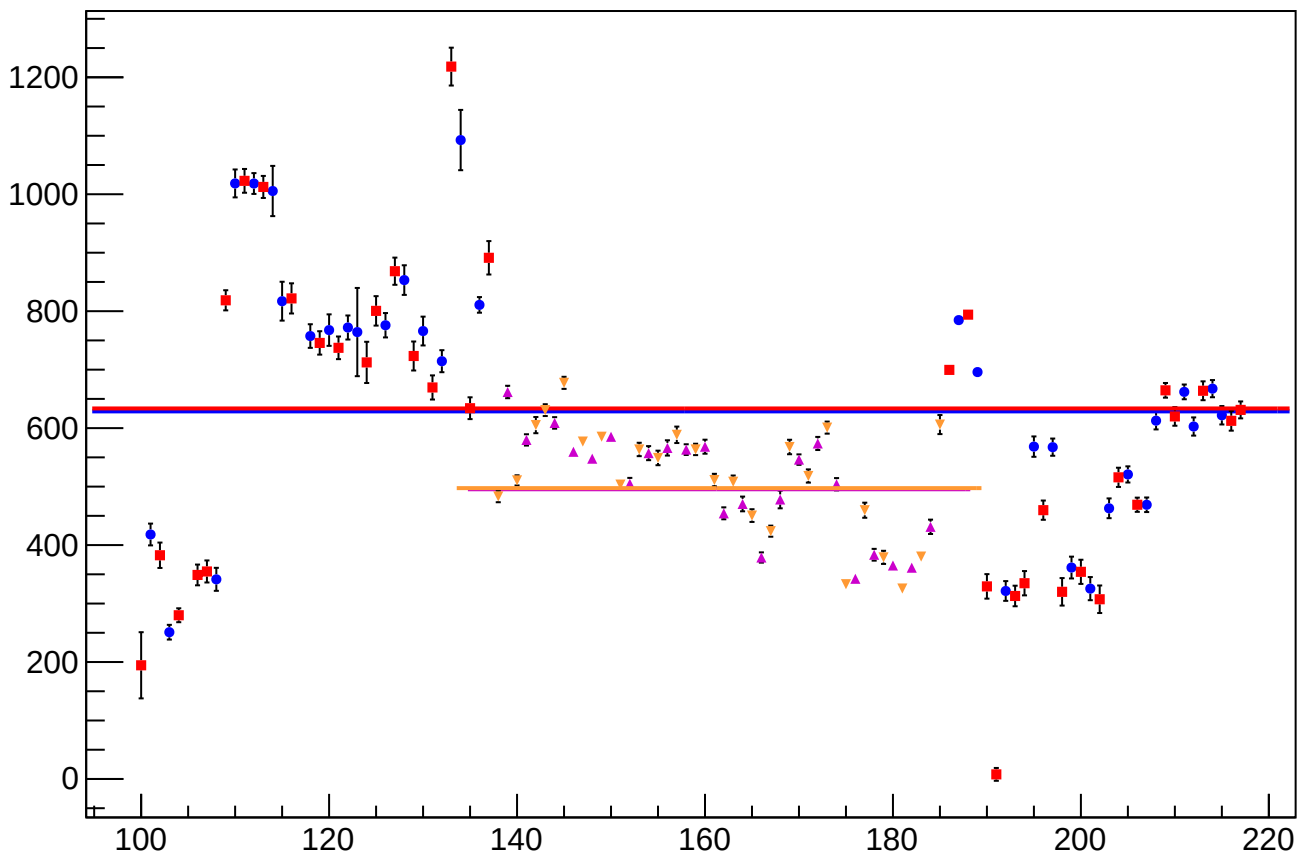
Right: 15.616 $\pm$ 1.648 χ^2 /NDF: 1808.9/67

In: -1.182 $\pm$ 1.295 χ^2 /NDF: 1583.4/54

Out: 2.487 $\pm$ 1.218 χ^2 /NDF: 1763.1/60

All: 0.764 $\pm$ 0.887 χ^2 /NDF: 3350.7/115

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 628.637 ± 2.842 $\chi^2/\text{NDF}: 4230.3/31$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 633.649 ± 2.319 $\chi^2/\text{NDF}: 9634.0/35$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

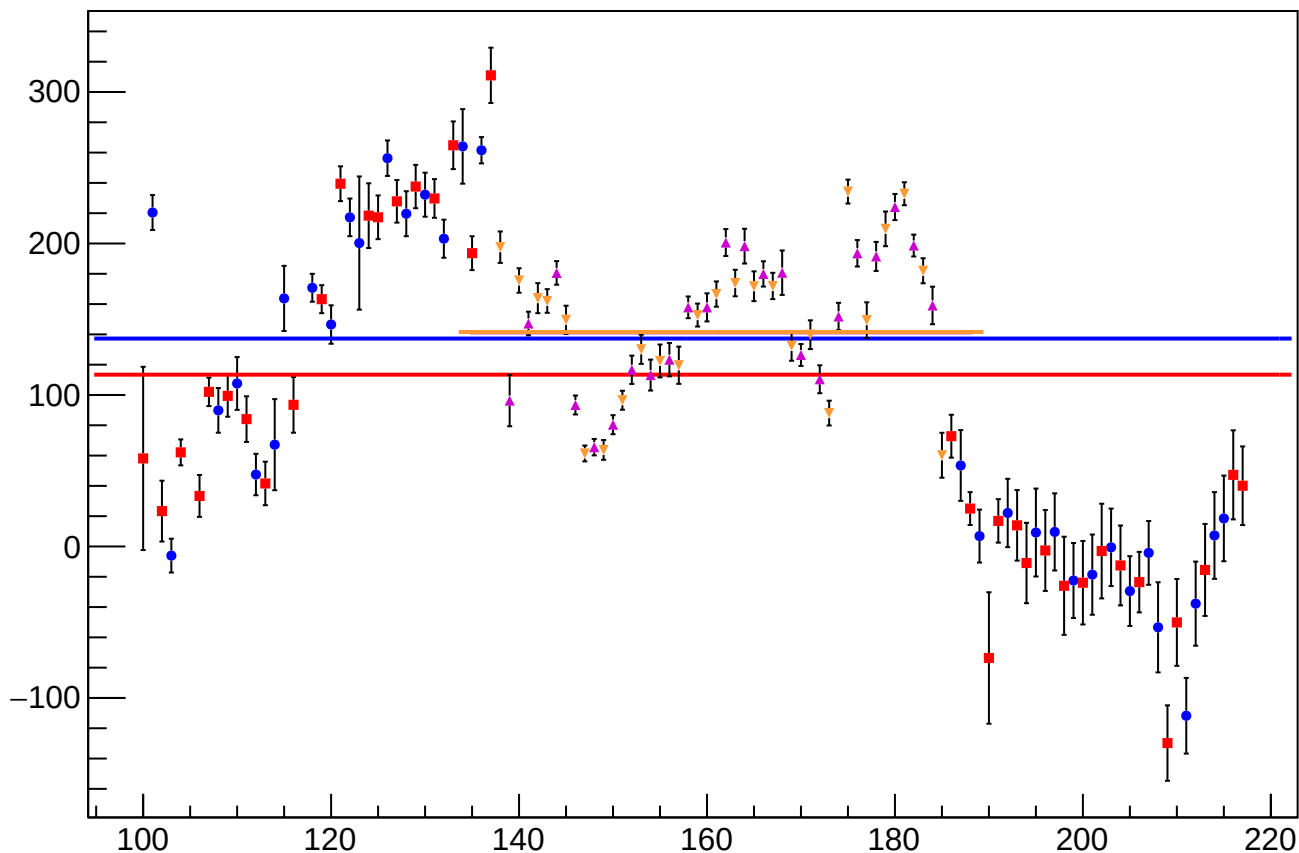
Right: 631.646 ± 1.797 $\chi^2/\text{NDF}: 13866.1/67$

In: 539.338 ± 1.631 $\chi^2/\text{NDF}: 7956.8/54$

Out: 554.367 ± 1.500 $\chi^2/\text{NDF}: 14257.8/60$

All: 547.484 ± 1.104 $\chi^2/\text{NDF}: 22260.6/115$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 137.253 $\pm$ 2.887 χ^2 /NDF: 1334.9/31

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 113.412 $\pm$ 2.625 χ^2 /NDF: 1317.3/35

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

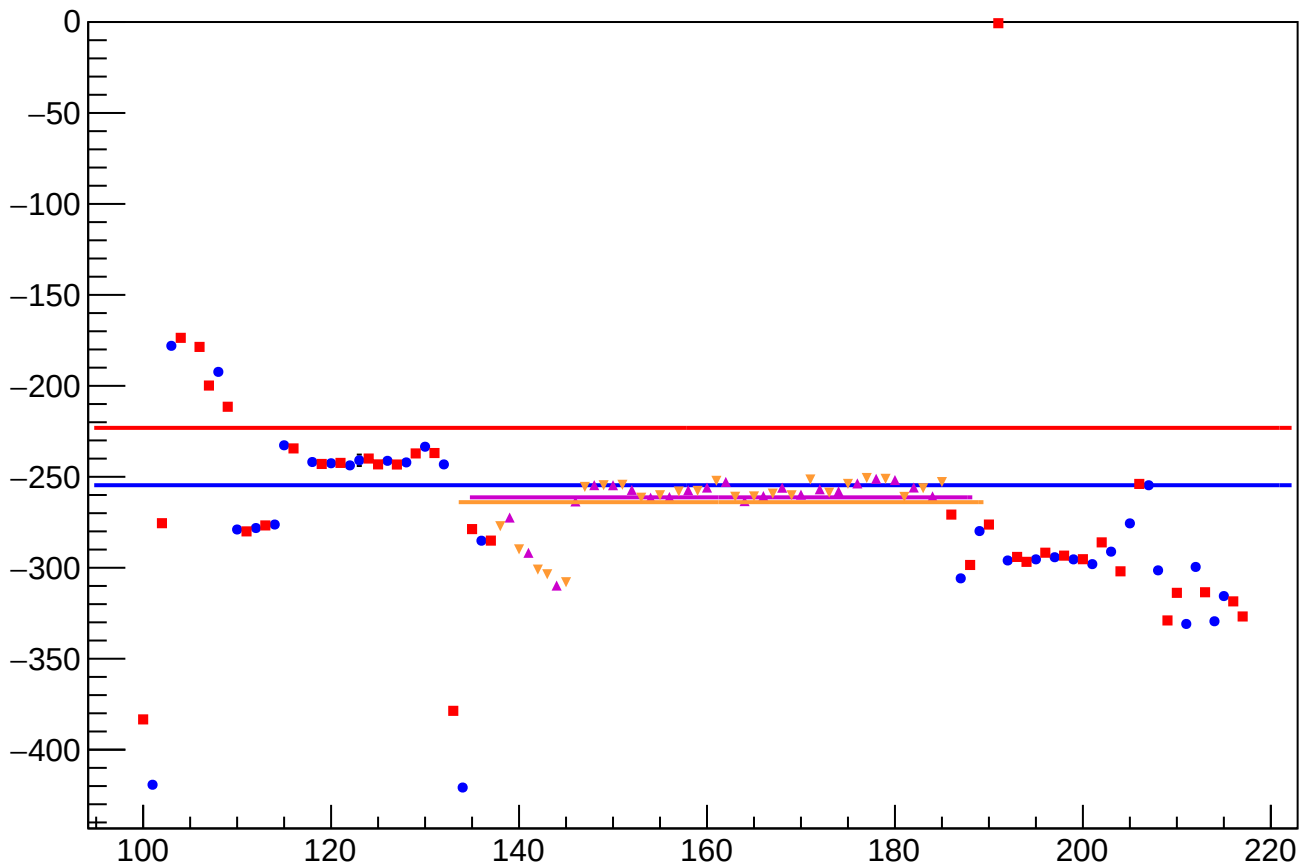
Right: 124.202 $\pm$ 1.942 χ^2 /NDF: 2689.5/67

In: 140.259 $\pm$ 1.495 χ^2 /NDF:2077.6/54

Out: 133.274 $\pm$ 1.426 χ^2 /NDF:2358.0/60

All: 136.601 $\pm$ 1.032 χ^2 /NDF: 4447.1/115

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -254.624+/-0.134 χ^2 /NDF: 206876.3/31

Left Out: -263.943+/-0.081 χ^2 /NDF: 39085.0/24

Right Out: -223.097+/-0.121 χ^2 /NDF: 518307.2/35

Left In: -261.286+/-0.082 χ^2 /NDF: 23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

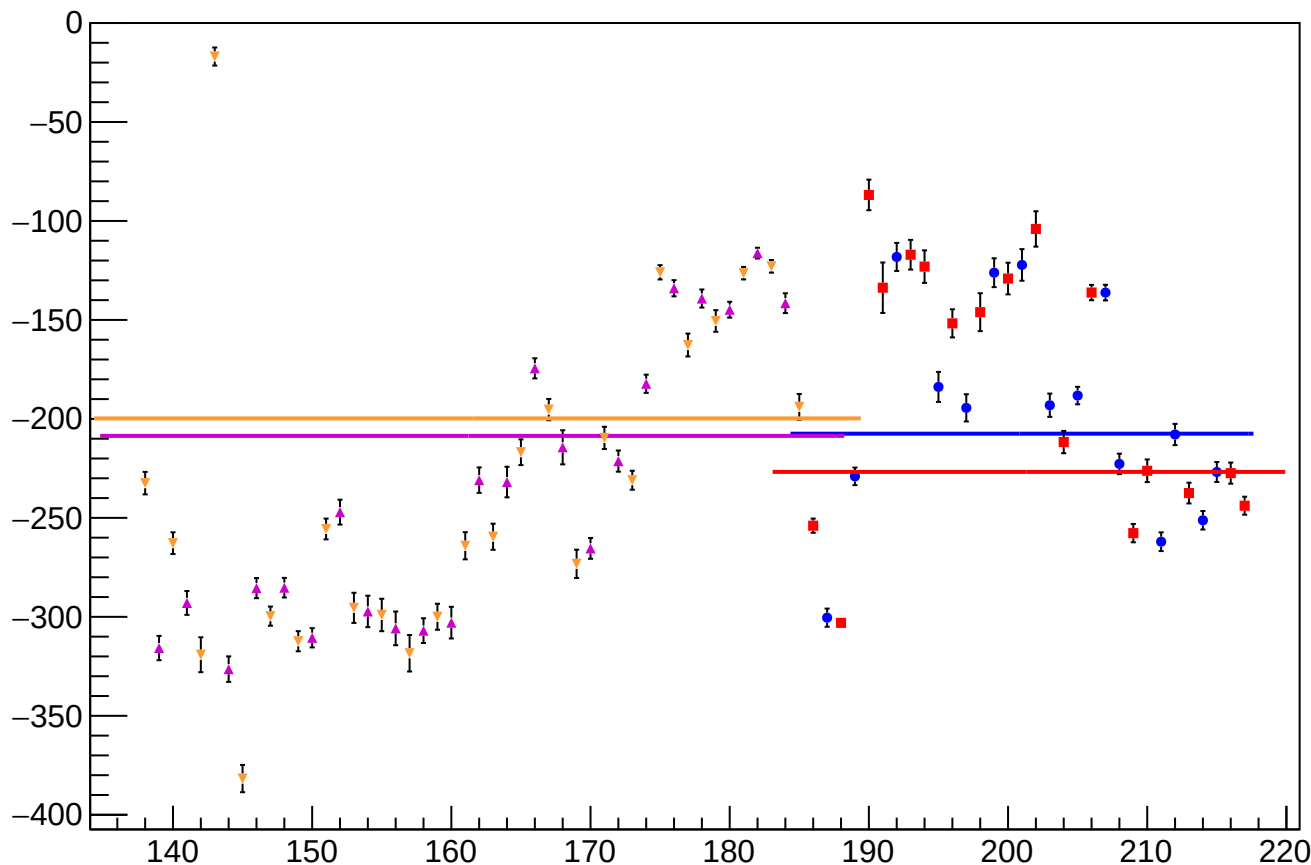
Right: -237.190+/-0.090 χ^2 /NDF: 755645.8/67

In: -259.478+/-0.070 χ^2 /NDF: 232017.1/54

Out: -251.217+/-0.067 χ^2 /NDF: 636139.4/60

All: -255.194+/-0.049 χ^2 /NDF: 875385.6/115

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -207.467 ± 1.364 $\chi^2/\text{NDF}: 1438.1/14$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -226.764 ± 1.226 $\chi^2/\text{NDF}: 2985.7/16$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

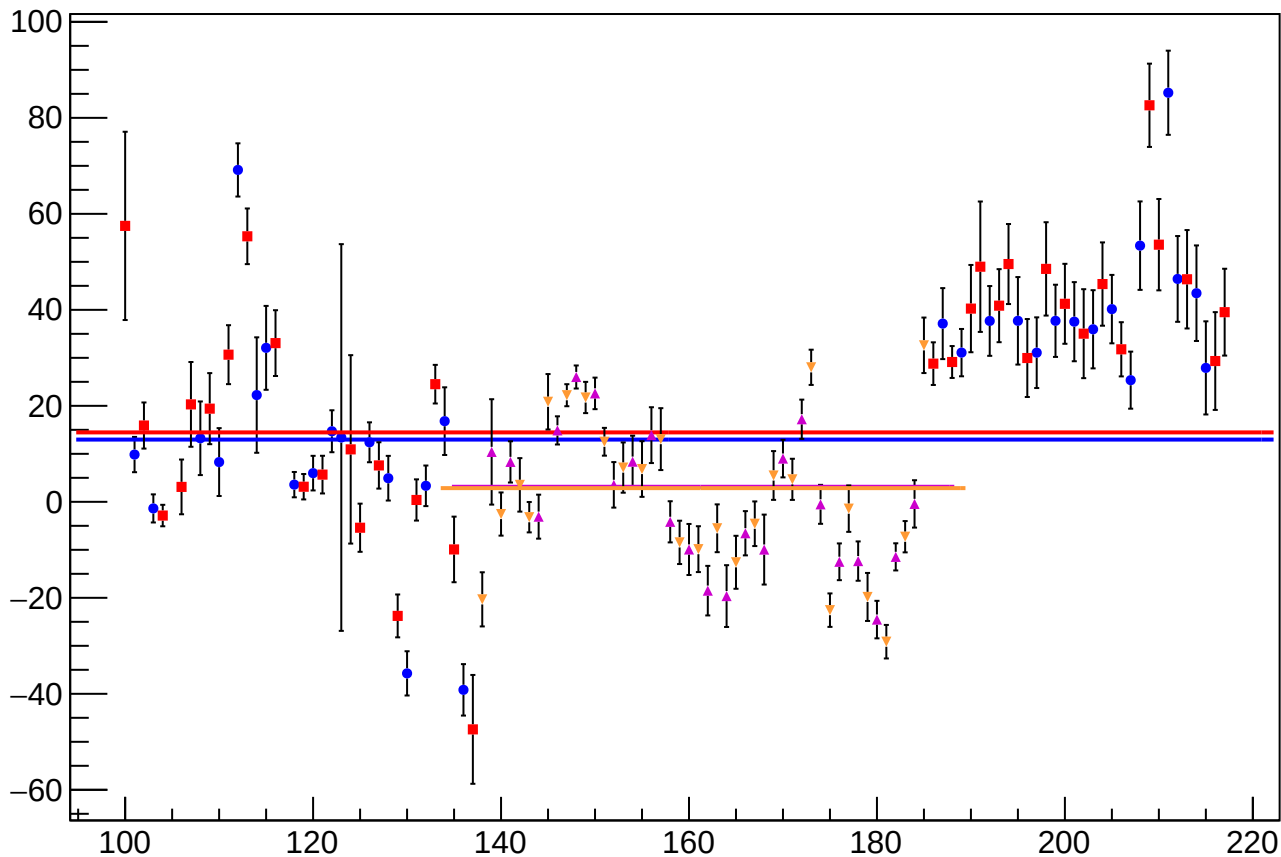
Right: -218.141 ± 0.912 $\chi^2/\text{NDF}: 4534.6/31$

In: -208.150 ± 0.848 $\chi^2/\text{NDF}: 6243.7/37$

Out: -211.314 ± 0.802 $\chi^2/\text{NDF}: 9625.0/41$

All: -209.819 ± 0.583 $\chi^2/\text{NDF}: 15876.0/79$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.969 $\pm$ 0.963 χ^2 /NDF: 573.2/31

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.465 $\pm$ 0.907 χ^2 /NDF: 533.0/35

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

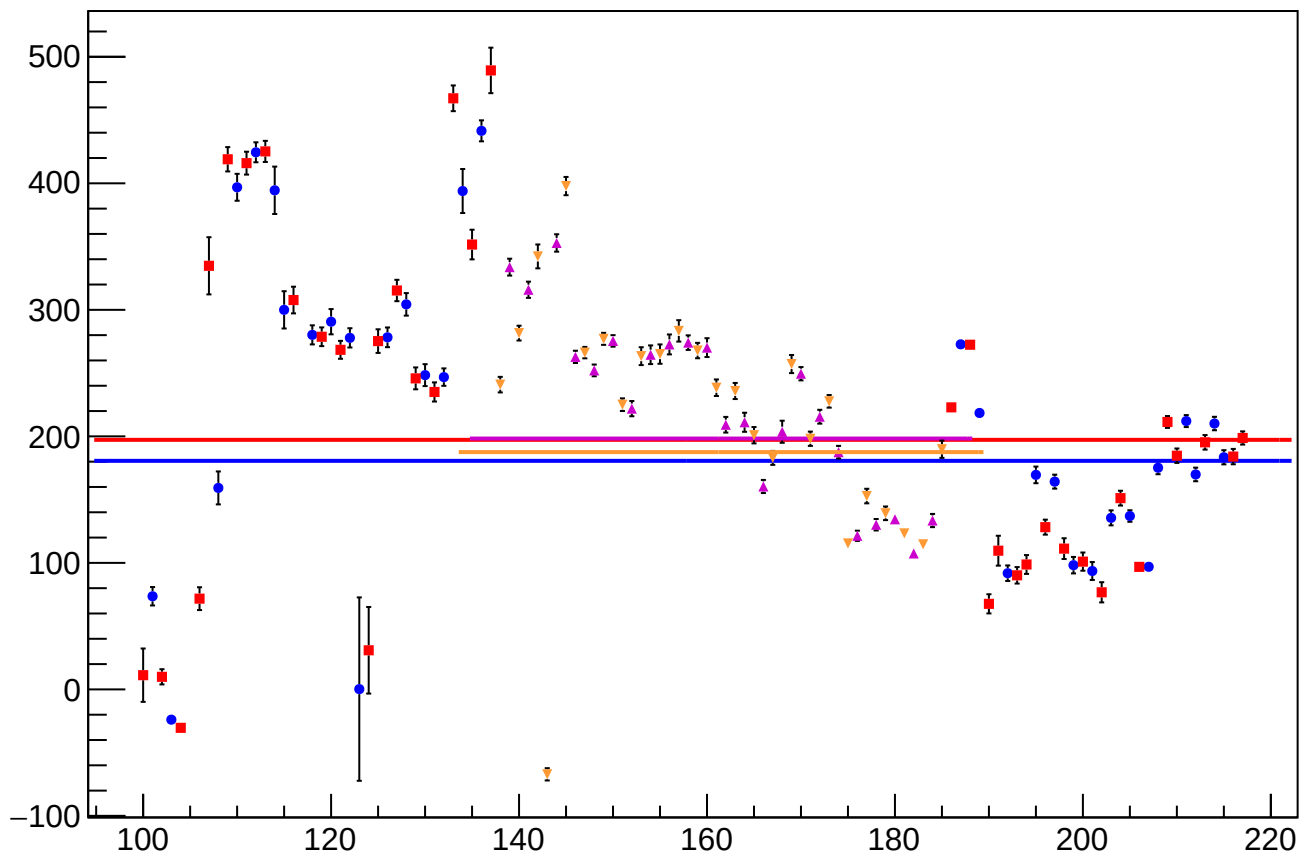
Right: 13.762 $\pm$ 0.660 χ^2 /NDF: 1107.6/67

In: 7.478 $\pm$ 0.640 χ^2 /NDF: 951.2/54

Out: 8.076 $\pm$ 0.608 χ^2 /NDF: 1043.1/60

All: 7.792 $\pm$ 0.441 χ^2 /NDF: 1994.8/115

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.652 $\pm$ 1.083 χ^2 /NDF: 8770.1/31

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.245 $\pm$ 0.961 χ^2 /NDF: 12149.8/35

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

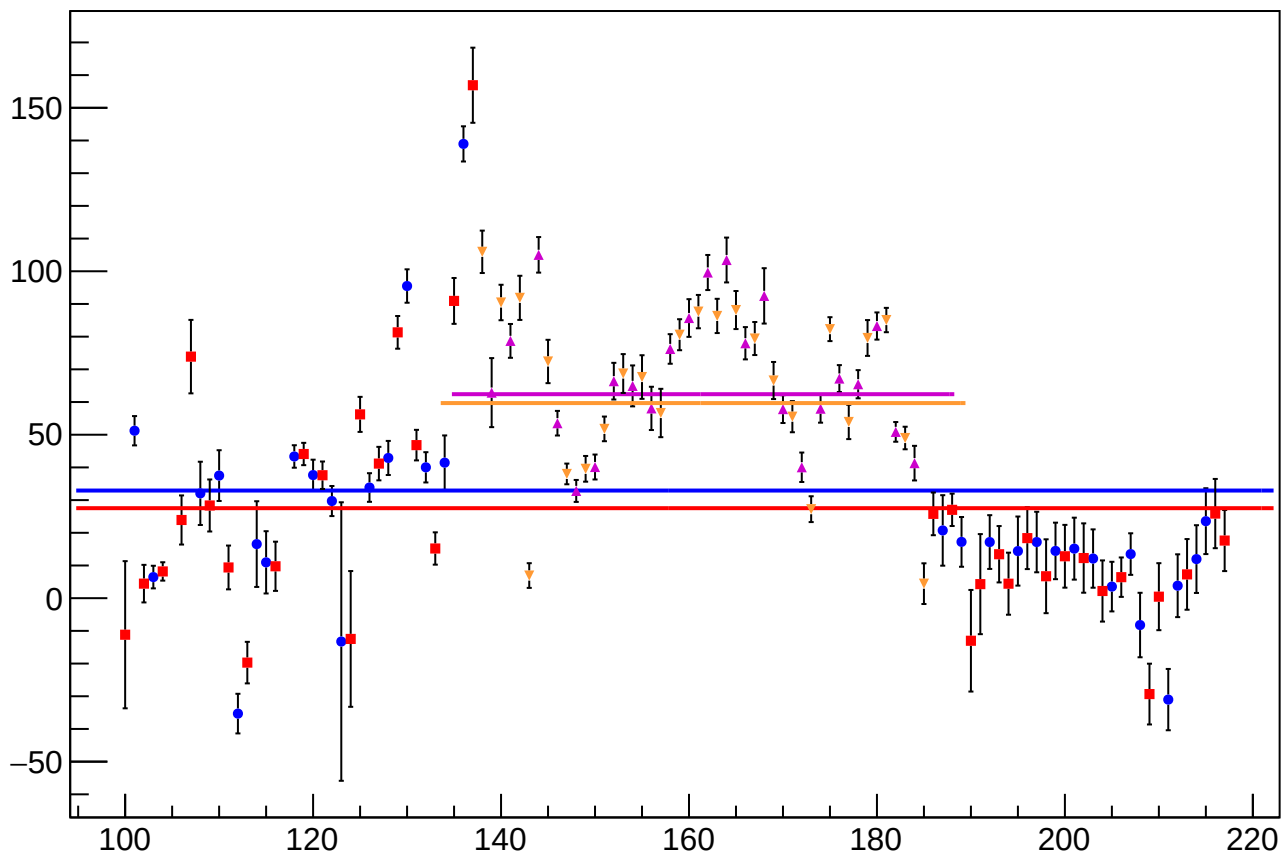
Right: 189.940 $\pm$ 0.719 χ^2 /NDF: 21051.3/67

In: 189.472 $\pm$ 0.765 χ^2 /NDF: 13418.3/54

Out: 192.907 $\pm$ 0.714 χ^2 /NDF: 19277.3/60

All: 191.310 $\pm$ 0.522 χ^2 /NDF: 32706.4/115

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.925 ± 1.120 $\chi^2/\text{NDF}: 897.1/31$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 27.530 ± 1.077 $\chi^2/\text{NDF}: 663.3/35$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

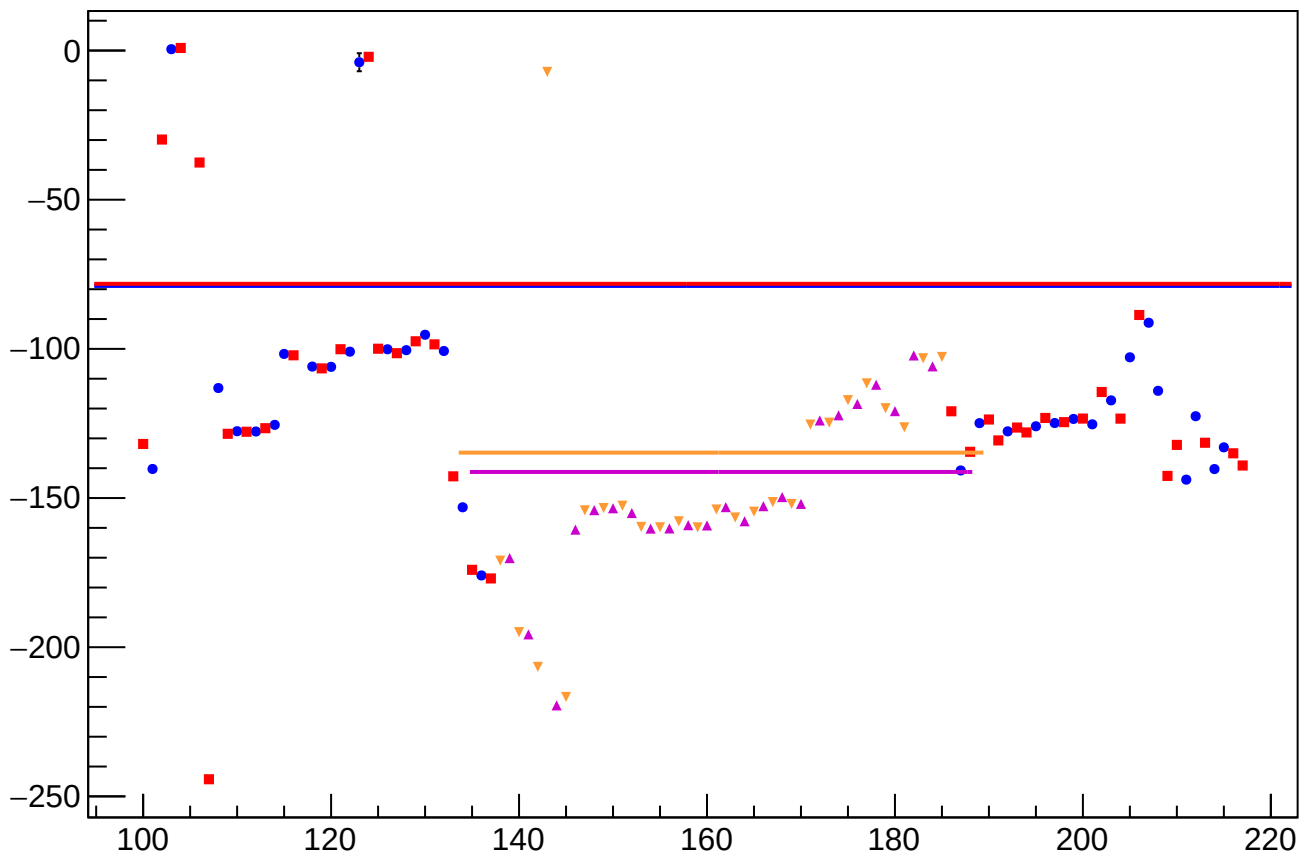
Right: 30.121 ± 0.776 $\chi^2/\text{NDF}: 1572.5/67$

In: 49.706 ± 0.735 $\chi^2/\text{NDF}: 1697.7/54$

Out: 45.765 ± 0.708 $\chi^2/\text{NDF}: 1926.6/60$

All: 47.663 ± 0.510 $\chi^2/\text{NDF}: 3639.2/115$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -78.895 ± 0.050 $\chi^2/\text{NDF}: 1469439.8/31$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -78.200 ± 0.049 $\chi^2/\text{NDF}: 1464441.1/35$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

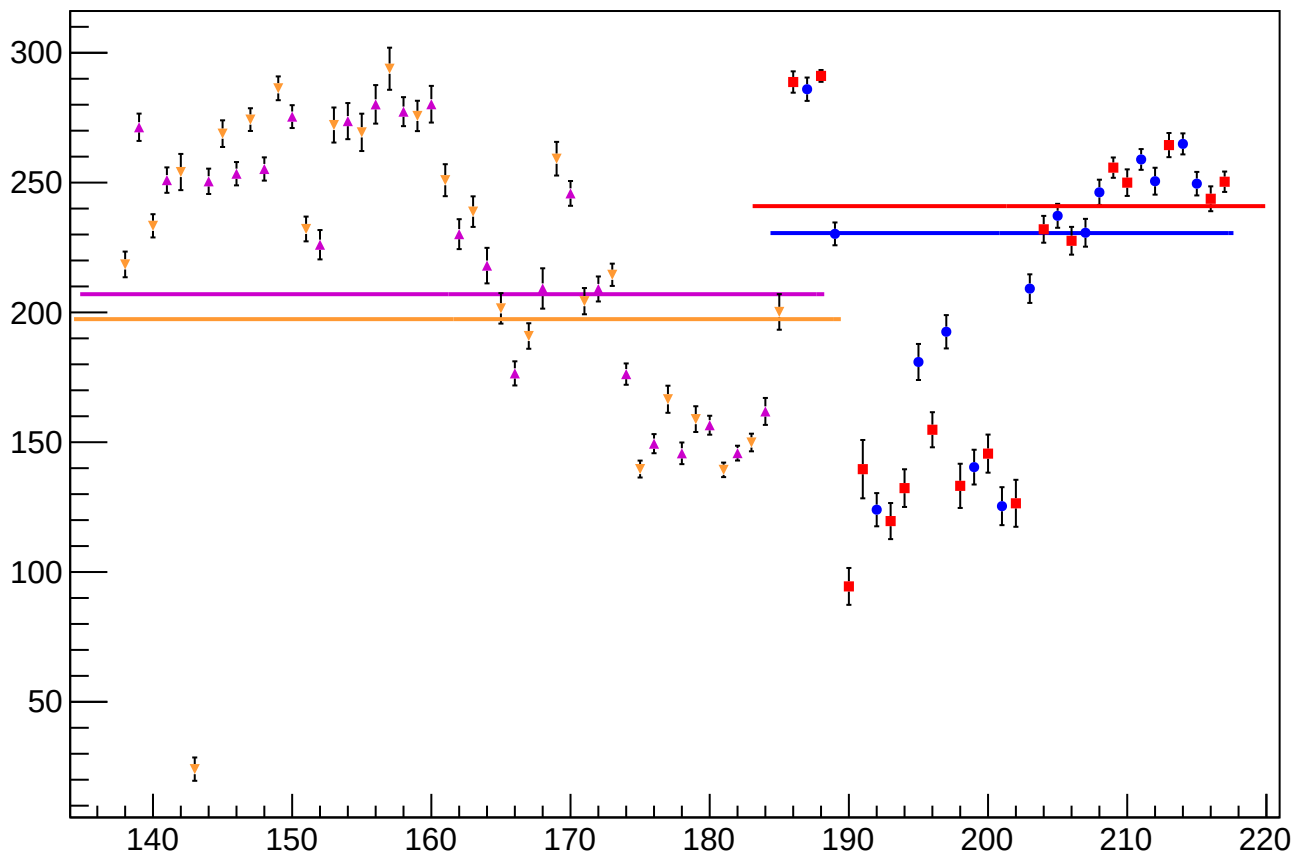
Right: -78.537 ± 0.035 $\chi^2/\text{NDF}: 2933979.8/67$

In: -113.281 ± 0.034 $\chi^2/\text{NDF}: 2667099.1/54$

Out: -109.019 ± 0.033 $\chi^2/\text{NDF}: 3005153.4/60$

All: -111.100 ± 0.023 $\chi^2/\text{NDF}: 5680475.8/111$

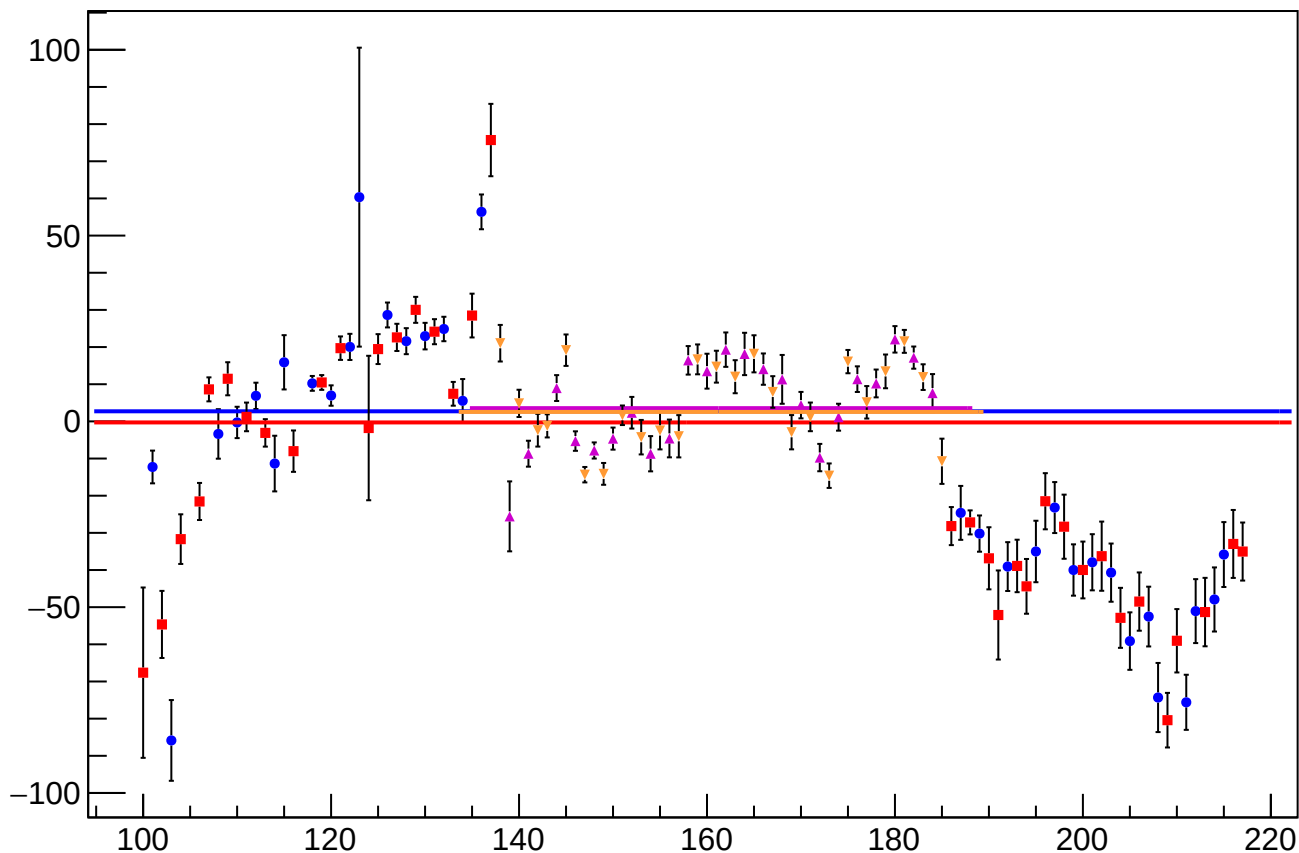
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 230.557 $\pm$ 1.315 χ^2/NDF : 1086.0/14
 Left Out: 197.408 $\pm$ 0.963 χ^2/NDF :4384.2/24
 Right Out: 240.936 $\pm$ 1.182 χ^2/NDF : 2364.2/16
 Left In: 207.014 $\pm$ 0.990 χ^2/NDF :2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2/NDF : 7044.1/47
 Right: 236.300 $\pm$ 0.879 χ^2/NDF : 3484.6/31
 In: 215.532 $\pm$ 0.791 χ^2/NDF :3902.0/37
 Out: 214.776 $\pm$ 0.746 χ^2/NDF :7563.8/41
 All: 215.132 $\pm$ 0.543 χ^2/NDF : 11466.3/79

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.712 ± 0.841 χ^2/NDF : 1045.9/31

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.283 ± 0.803 χ^2/NDF : 1025.9/35

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

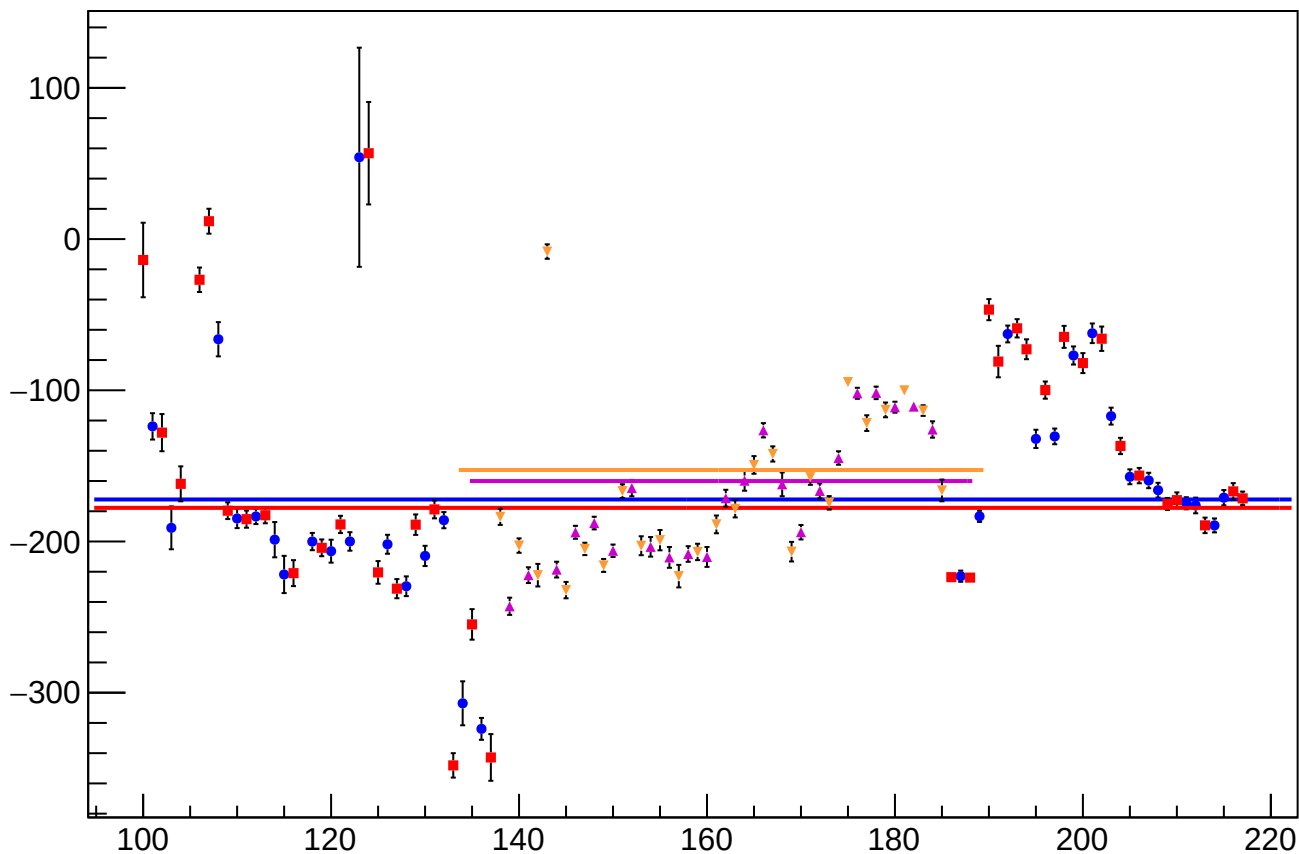
Right: 1.144 ± 0.581 χ^2/NDF : 2078.5/67

In: 3.171 ± 0.570 χ^2/NDF : 1238.5/54

Out: 1.245 ± 0.544 χ^2/NDF : 1308.0/60

All: 2.165 ± 0.394 χ^2/NDF : 2552.5/115

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -172.210 ± 1.030 $\chi^2/\text{NDF}: 2248.3/31$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -177.763 ± 0.913 $\chi^2/\text{NDF}: 4591.1/35$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

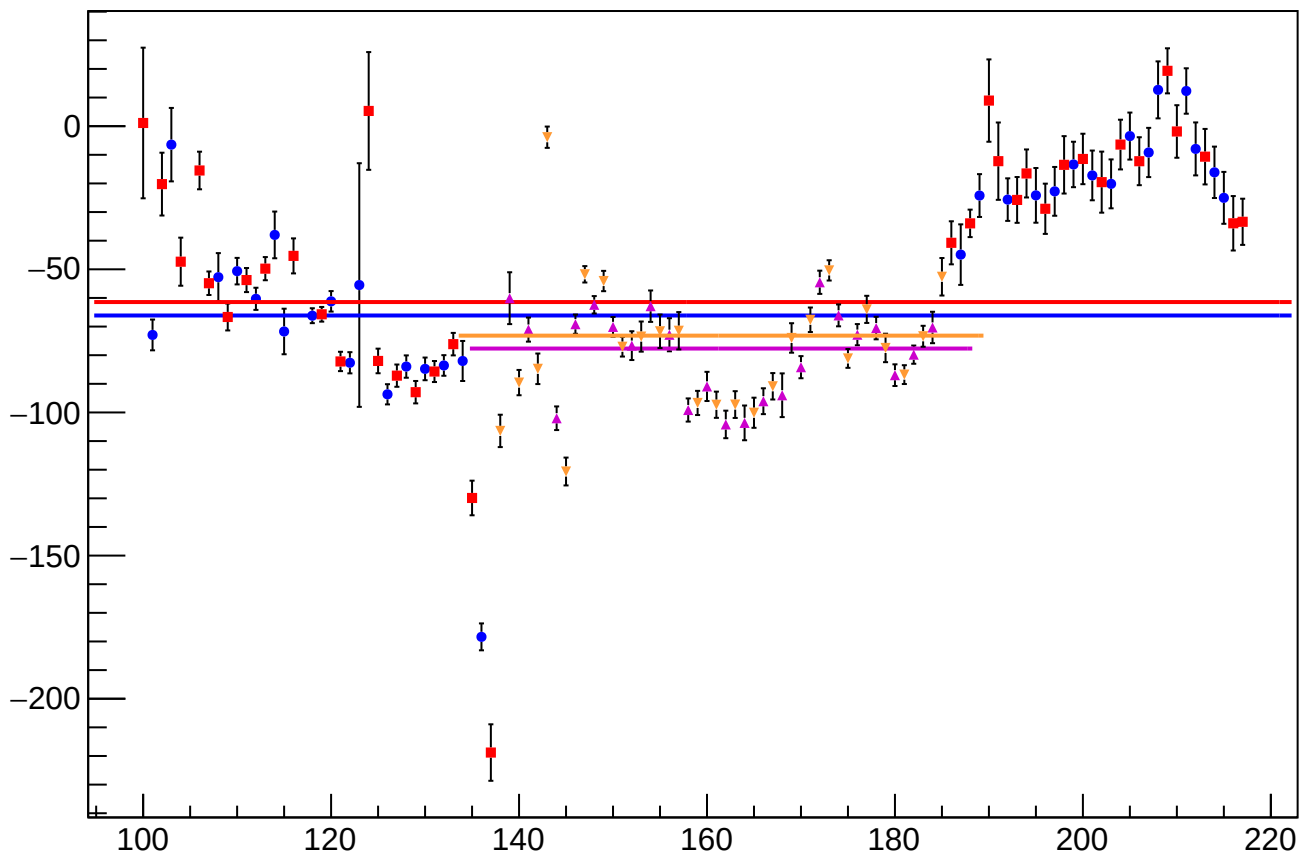
Right: -175.319 ± 0.683 $\chi^2/\text{NDF}: 6855.7/67$

In: -165.866 ± 0.713 $\chi^2/\text{NDF}: 4345.5/54$

Out: -165.963 ± 0.664 $\chi^2/\text{NDF}: 8022.9/60$

All: -165.918 ± 0.486 $\chi^2/\text{NDF}: 12368.4/115$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -66.132 ± 0.974 $\chi^2/\text{NDF}: 1345.4/31$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.434 ± 0.937 $\chi^2/\text{NDF}: 1196.7/35$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

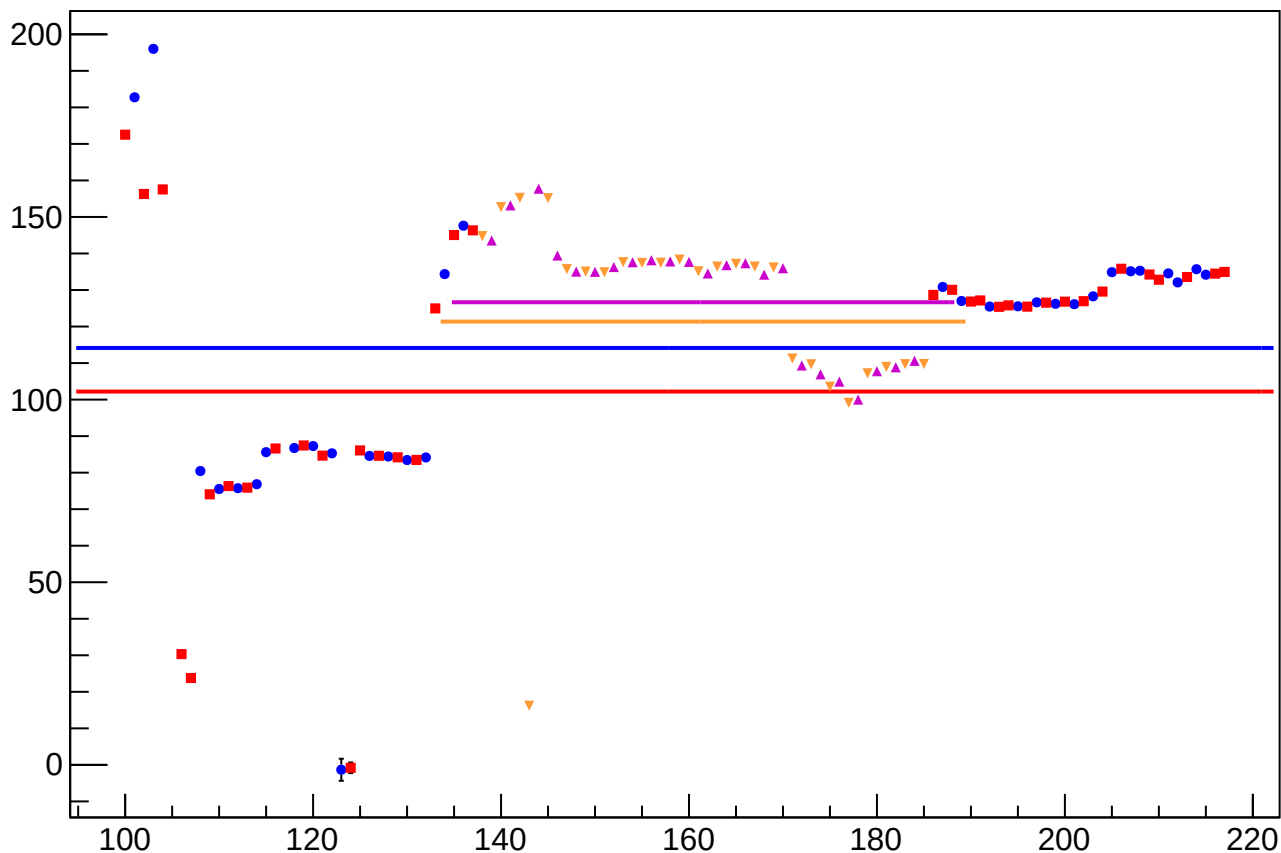
Right: -63.692 ± 0.675 $\chi^2/\text{NDF}: 2554.2/67$

In: -72.470 ± 0.654 $\chi^2/\text{NDF}: 1670.8/54$

Out: -67.860 ± 0.630 $\chi^2/\text{NDF}: 2071.2/60$

All: -70.079 ± 0.454 $\chi^2/\text{NDF}: 3767.8/115$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.139 $\pm$ 0.054 χ^2 /NDF: 328174.8/31

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF:481977.3/24

Right Out: 102.203 $\pm$ 0.050 χ^2 /NDF: 607974.2/35

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF:163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

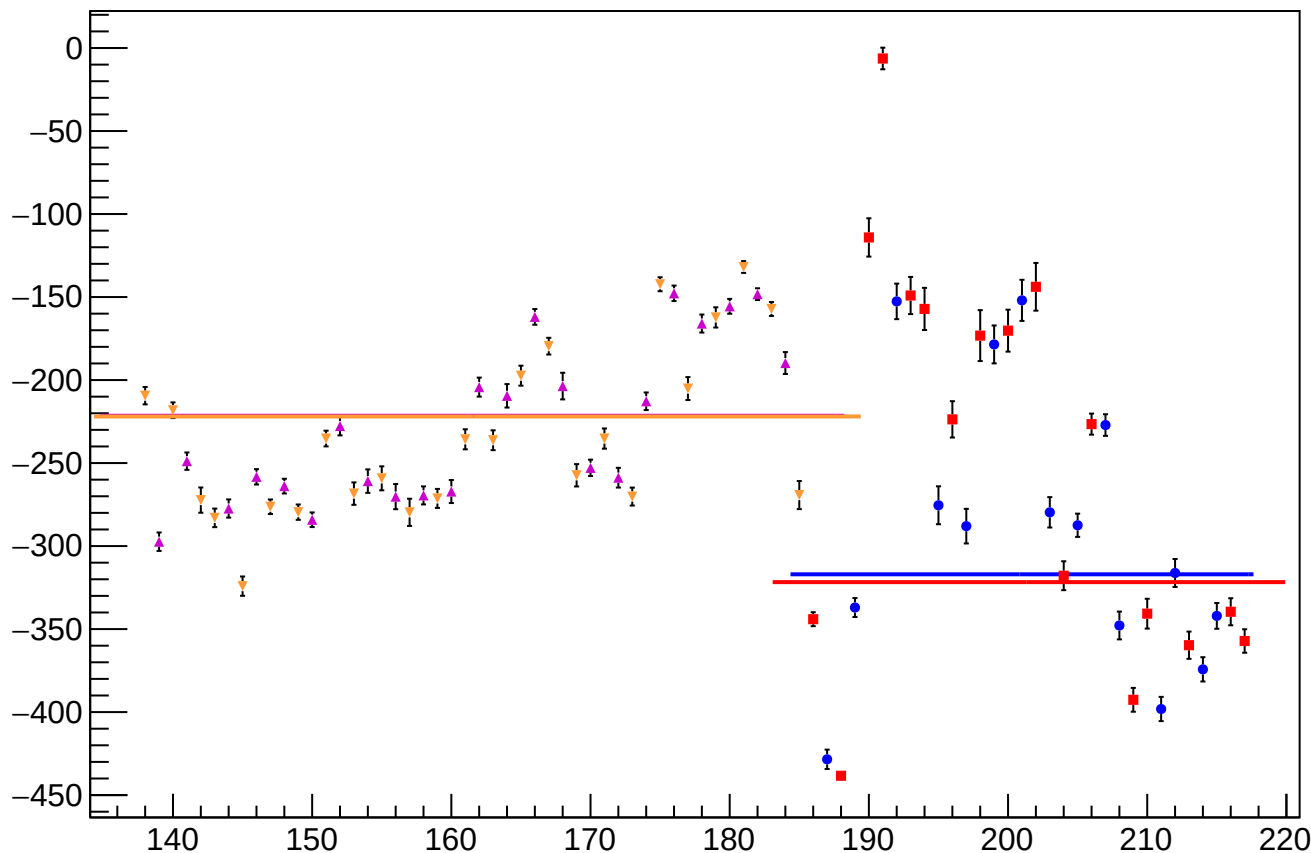
Right: 107.663 $\pm$ 0.037 χ^2 /NDF: 962526.3/67

In: 122.081 $\pm$ 0.033 χ^2 /NDF:525128.9/54

Out: 113.759 $\pm$ 0.031 χ^2 /NDF:1179526.7/60

All: 117.736 $\pm$ 0.023 χ^2 /NDF: 1738426.3/115

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -317.003+/-2.048 χ^2/NDF : 1393.3/14

Left Out: -221.934+/-1.084 χ^2/NDF : 2578.4/24

Right Out: -321.717+/-1.681 χ^2/NDF : 5424.7/16

Left In: -221.483+/-1.102 χ^2/NDF : 2149.8/22

Left: -221.712+/-0.773 χ^2/NDF : 4728.2/47

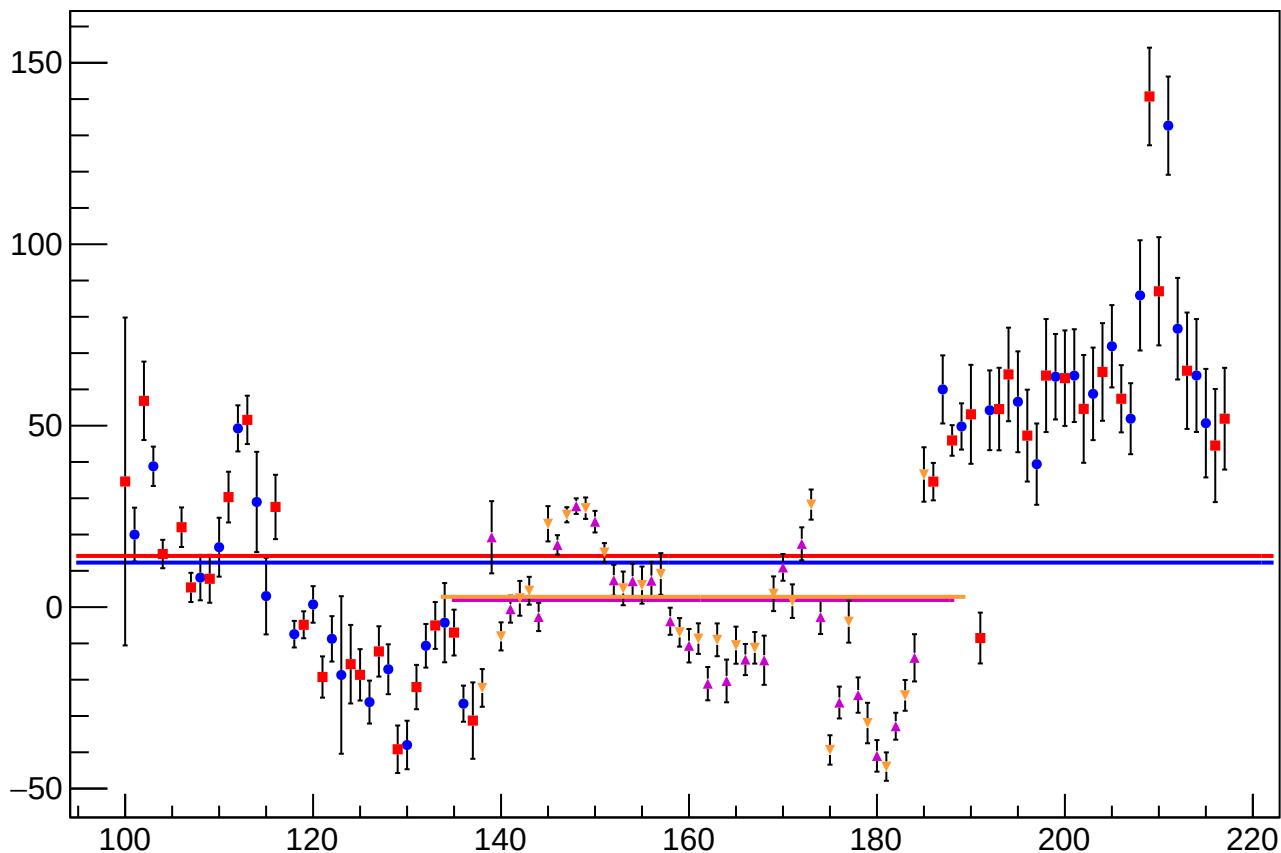
Right: -319.819+/-1.299 χ^2/NDF : 6821.1/31

In: -242.941+/-0.971 χ^2/NDF : 5230.2/37

Out: -251.253+/-0.911 χ^2/NDF : 10490.7/41

All: -247.358+/-0.664 χ^2/NDF : 15759.8/79

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.273+/-1.360 χ^2/NDF : 629.3/31

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 14.104+/-1.192 χ^2/NDF : 633.8/35

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

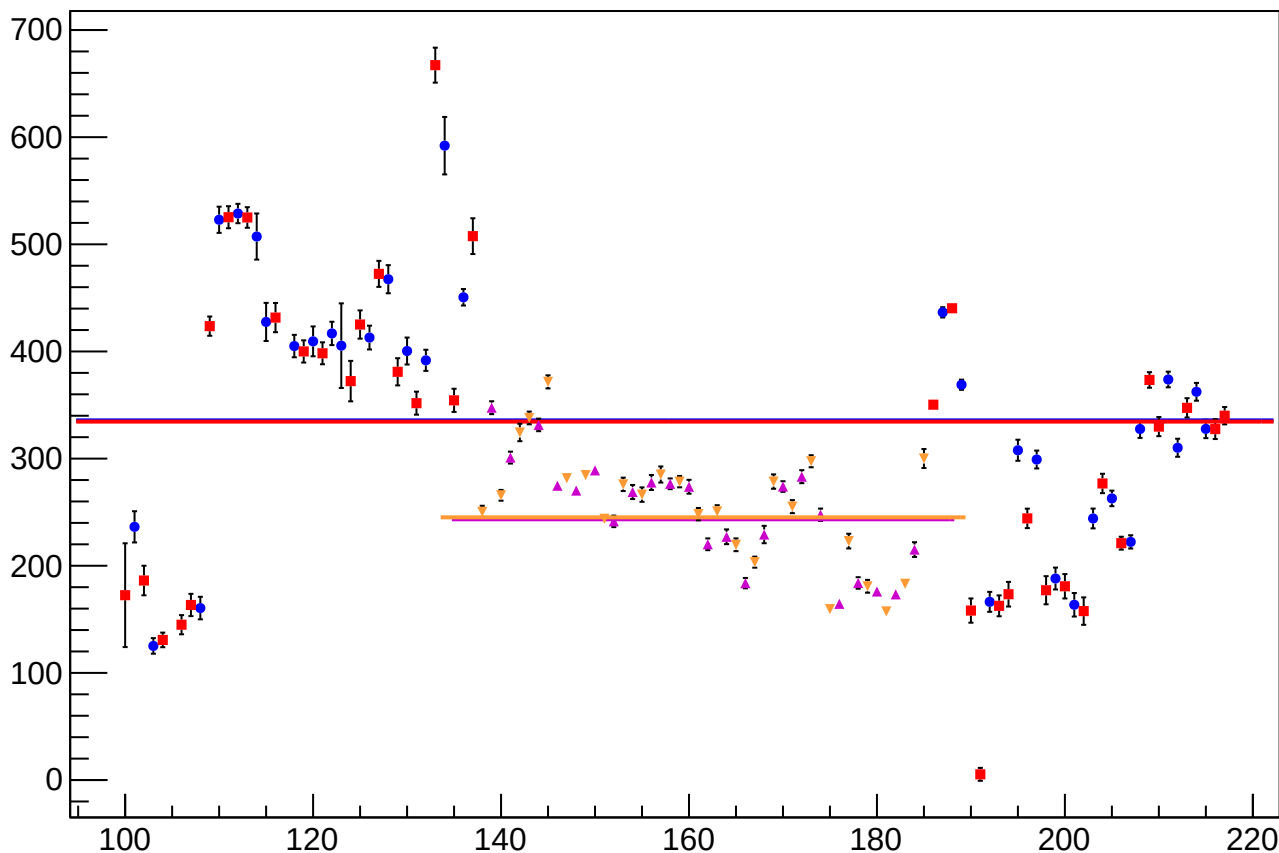
Right: 13.308+/-0.896 χ^2/NDF : 1264.2/67

In: 4.788+/-0.711 χ^2/NDF : 1260.1/54

Out: 6.374+/-0.668 χ^2/NDF : 1382.0/60

All: 5.631+/-0.487 χ^2/NDF : 2644.8/115

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 335.686 $\pm$ 1.575 χ^2 /NDF: 4485.5/31

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 334.543 $\pm$ 1.286 χ^2 /NDF: 10100.6/35

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF:2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

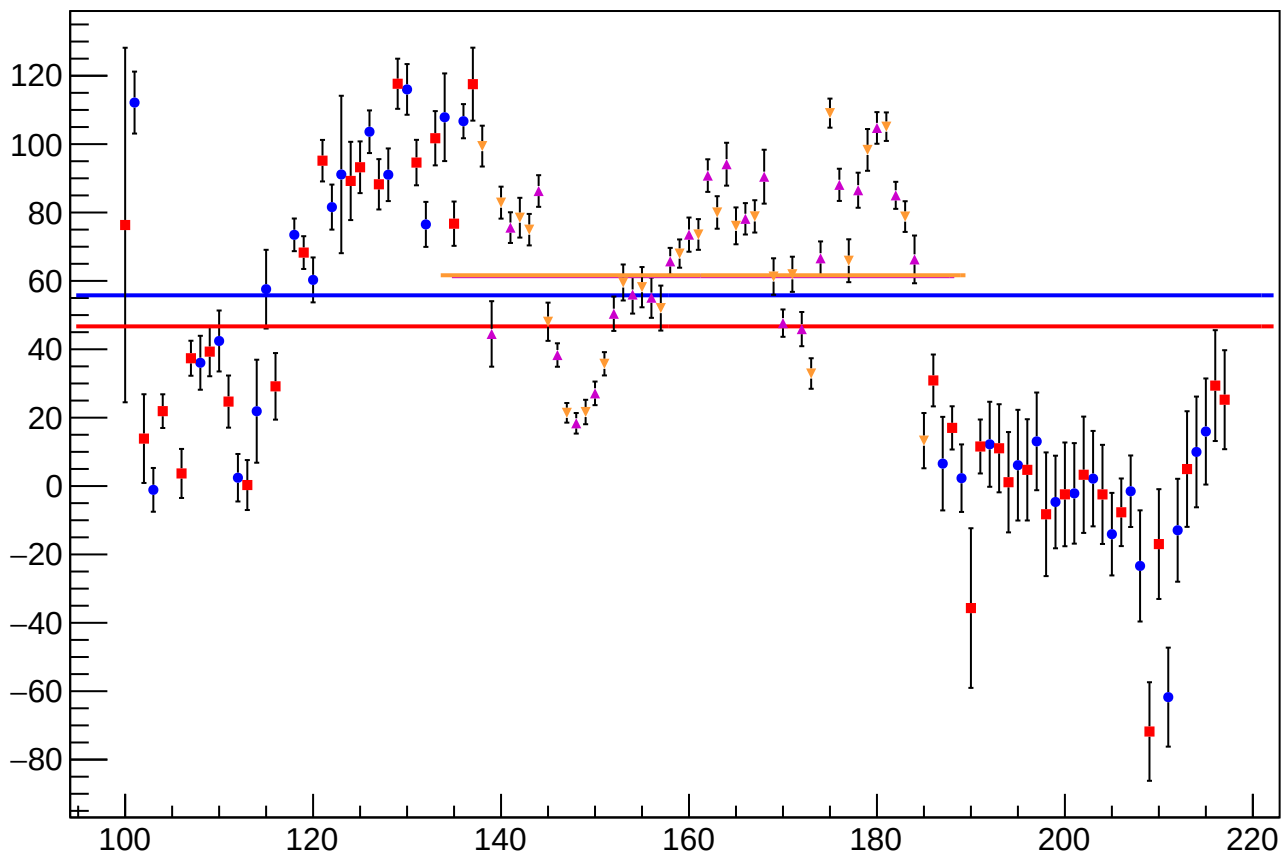
Right: 335.000 $\pm$ 0.996 χ^2 /NDF: 14586.3/67

In: 273.391 $\pm$ 0.898 χ^2 /NDF:9039.7/54

Out: 282.212 $\pm$ 0.828 χ^2 /NDF:15524.6/60

All: 278.160 $\pm$ 0.609 χ^2 /NDF: 24616.4/115

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.780 ± 1.576 $\chi^2/\text{NDF}: 809.9/31$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 46.700 ± 1.419 $\chi^2/\text{NDF}: 795.7/35$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

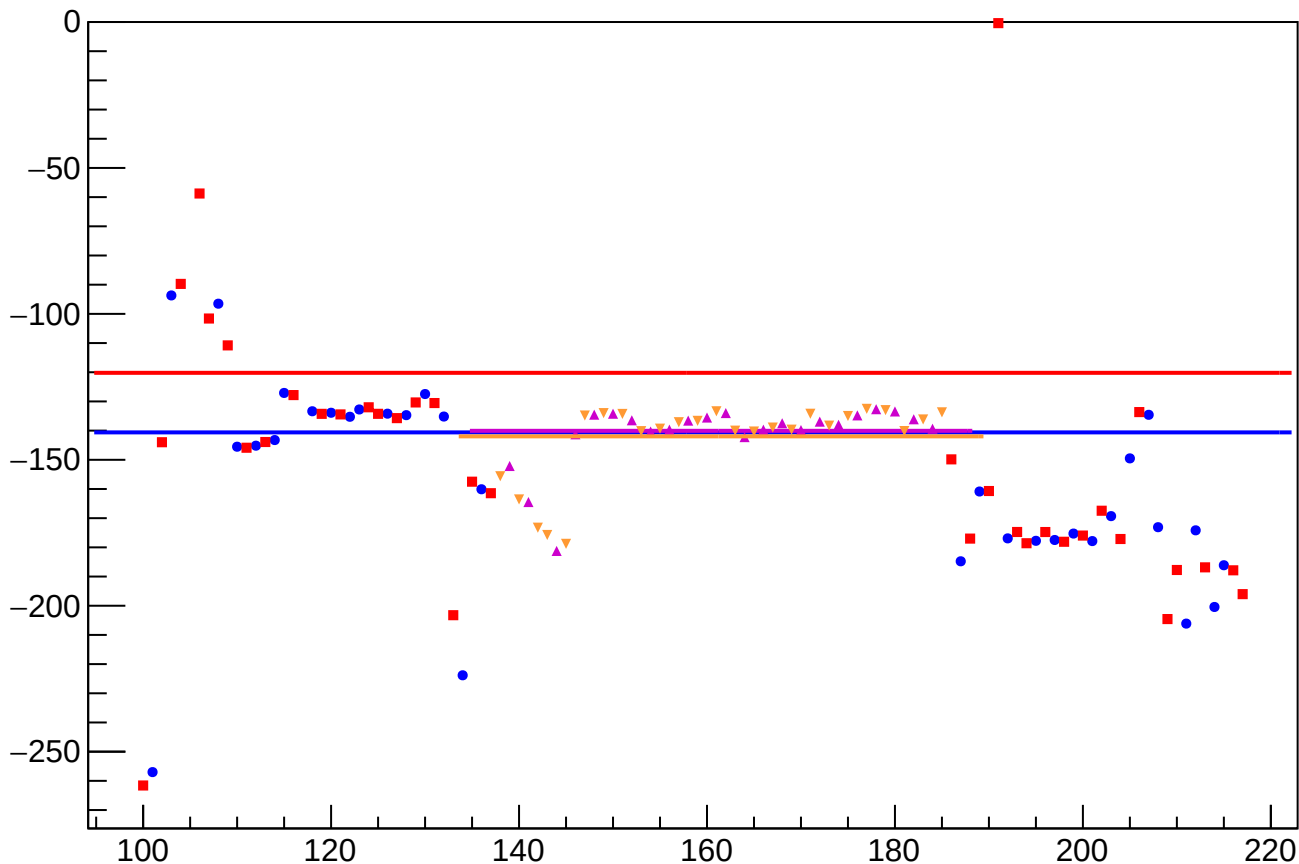
Right: 50.765 ± 1.054 $\chi^2/\text{NDF}: 1624.0/67$

In: 59.858 ± 0.820 $\chi^2/\text{NDF}: 1518.8/54$

Out: 57.112 ± 0.781 $\chi^2/\text{NDF}: 1744.6/60$

All: 58.418 ± 0.566 $\chi^2/\text{NDF}: 3269.2/115$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -140.606+/-0.075 χ^2/NDF : 256192.8/31

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -120.198+/-0.066 χ^2/NDF : 653871.2/35

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

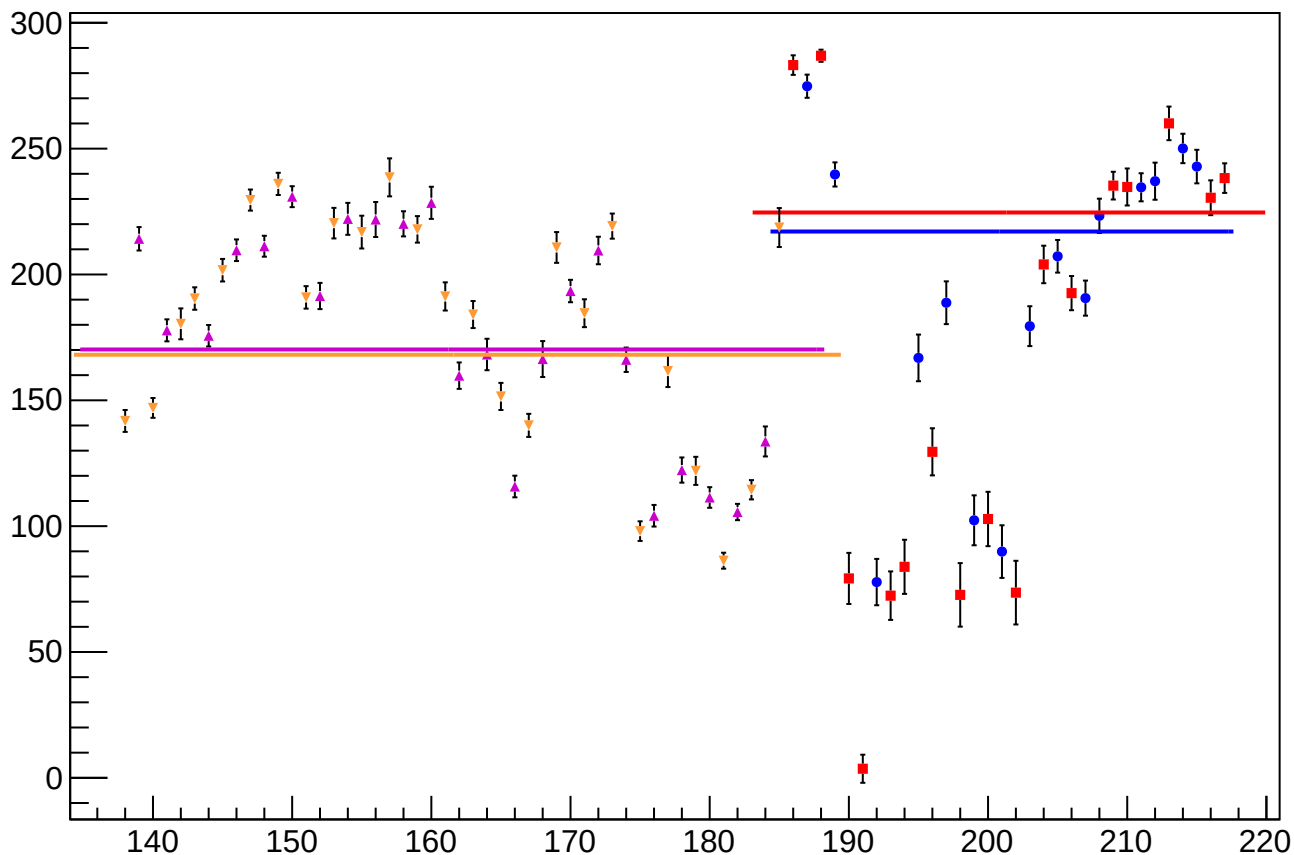
Right: -129.208+/-0.050 χ^2/NDF : 951946.8/67

In: -140.212+/-0.039 χ^2/NDF : 304261.6/54

Out: -135.160+/-0.037 χ^2/NDF : 808314.2/60

All: -137.588+/-0.027 χ^2/NDF : 1121510.1/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.070 $\pm$ 1.737 χ^2 /NDF: 834.9/14

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 224.629 $\pm$ 1.421 χ^2 /NDF: 3675.1/16

Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47

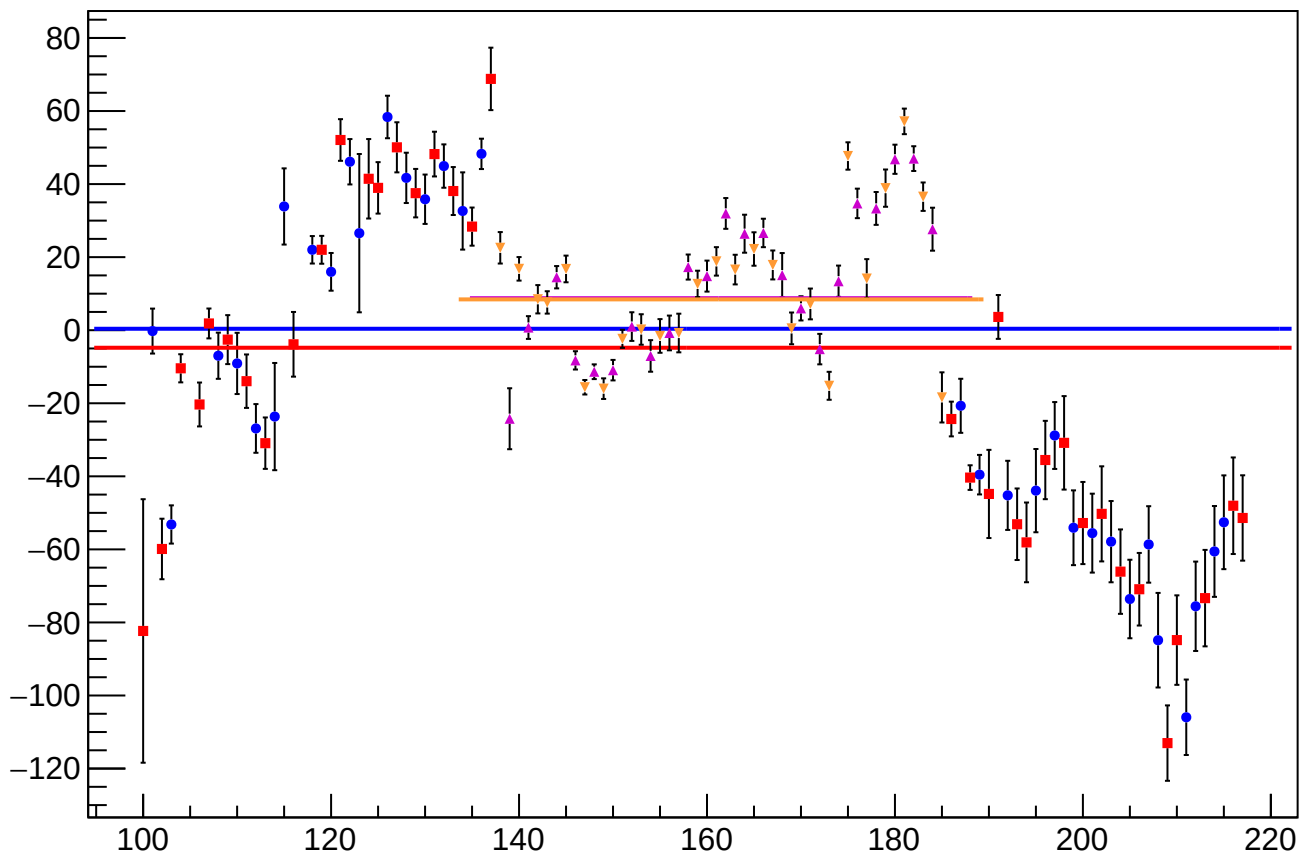
Right: 221.599 $\pm$ 1.100 χ^2 /NDF: 4521.4/31

In: 181.786 $\pm$ 0.864 χ^2 /NDF:3407.6/37

Out: 186.086 $\pm$ 0.801 χ^2 /NDF:7223.5/41

All: 184.097 $\pm$ 0.587 χ^2 /NDF: 10644.4/79

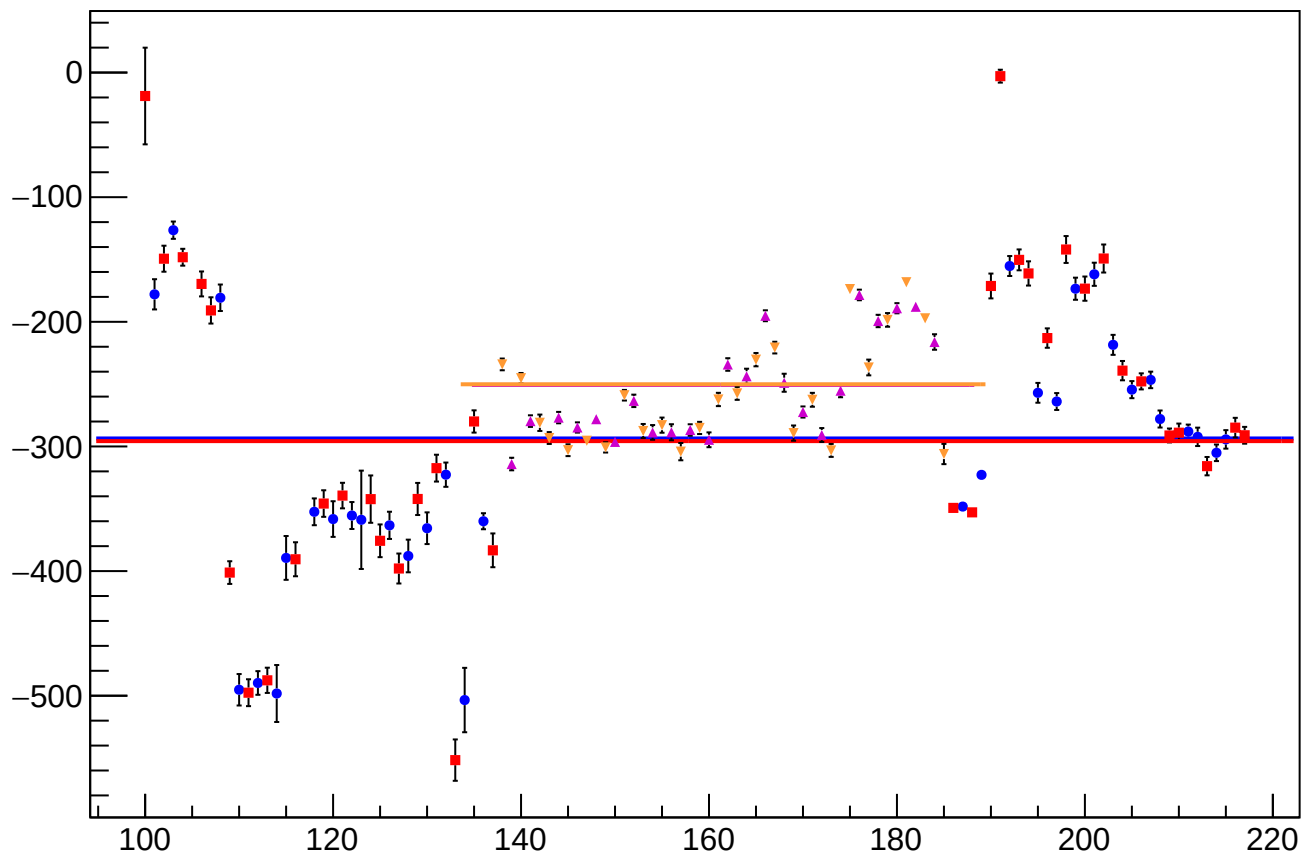
reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.395 ± 1.286 $\chi^2/\text{NDF}: 1098.1/31$
 Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$
 Right Out: -4.802 ± 1.130 $\chi^2/\text{NDF}: 1128.9/35$
 Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$
 Right: -2.538 ± 0.849 $\chi^2/\text{NDF}: 2236.3/67$
 In: 6.609 ± 0.653 $\chi^2/\text{NDF}: 1756.4/54$
 Out: 4.552 ± 0.612 $\chi^2/\text{NDF}: 1978.0/60$
 All: 5.514 ± 0.447 $\chi^2/\text{NDF}: 3739.7/115$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.588 ± 1.385 $\chi^2/\text{NDF}: 3135.1/31$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -295.721 ± 1.124 $\chi^2/\text{NDF}: 8121.2/35$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

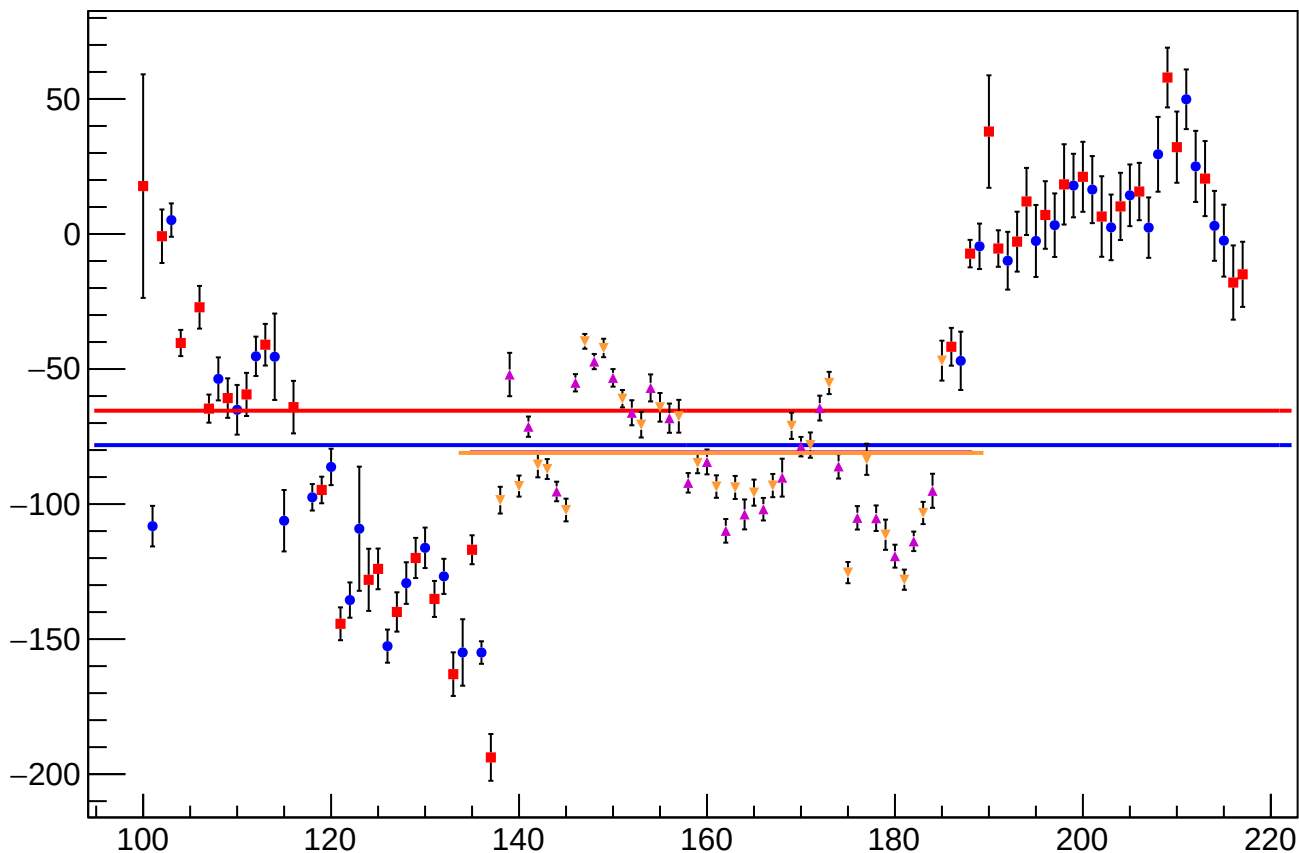
Right: -294.874 ± 0.873 $\chi^2/\text{NDF}: 11257.8/67$

In: -265.169 ± 0.806 $\chi^2/\text{NDF}: 5709.1/54$

Out: -269.643 ± 0.735 $\chi^2/\text{NDF}: 11310.0/60$

All: -267.610 ± 0.543 $\chi^2/\text{NDF}: 17035.9/115$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -78.176 ± 1.489 $\chi^2/\text{NDF}: 1806.0/31$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -65.427 ± 1.348 $\chi^2/\text{NDF}: 1920.0/35$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

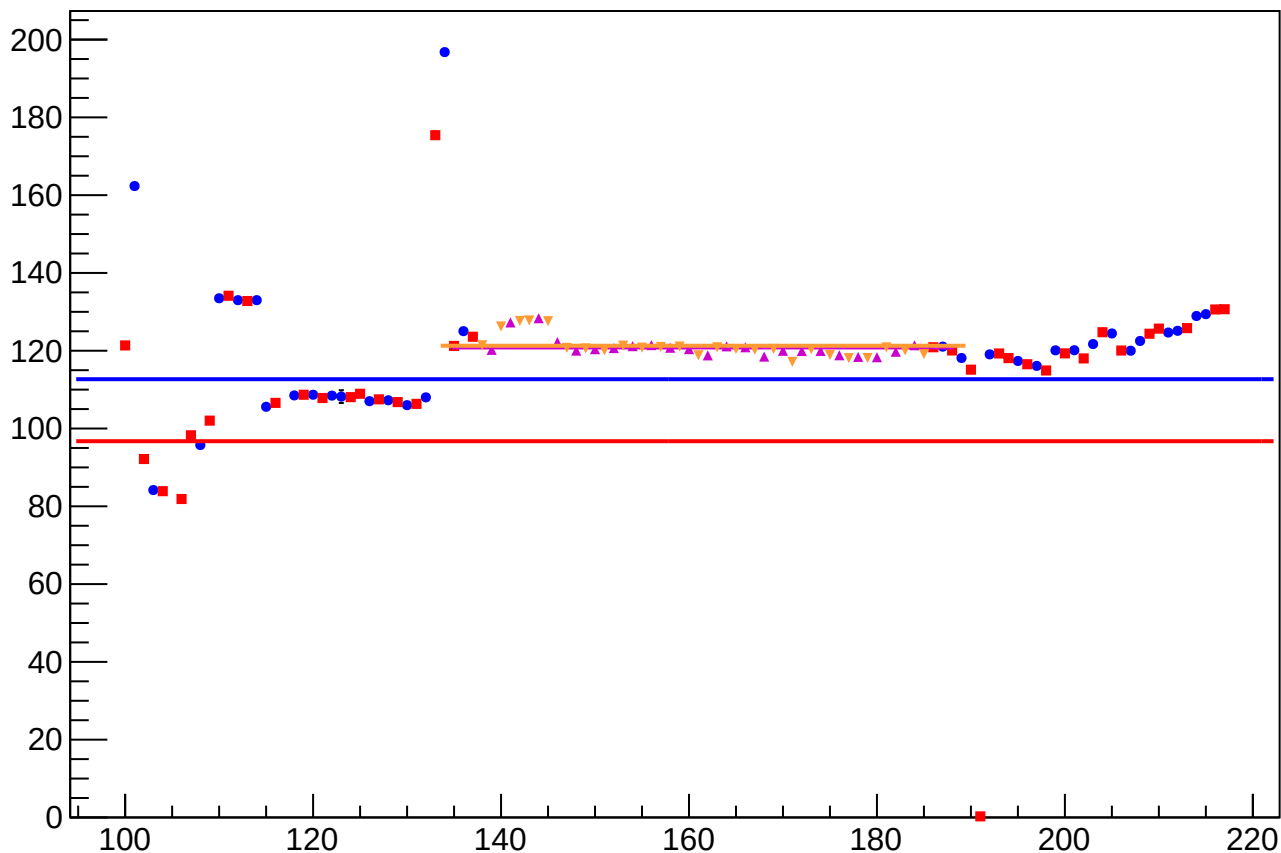
Right: -71.168 ± 0.999 $\chi^2/\text{NDF}: 3766.3/67$

In: -80.155 ± 0.752 $\chi^2/\text{NDF}: 2501.5/54$

Out: -76.662 ± 0.715 $\chi^2/\text{NDF}: 2929.7/60$

All: -78.319 ± 0.518 $\chi^2/\text{NDF}: 5442.6/115$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.681 $\pm$ 0.069 χ^2 /NDF: 81126.4/31

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.741 $\pm$ 0.061 χ^2 /NDF: 375011.4/35

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

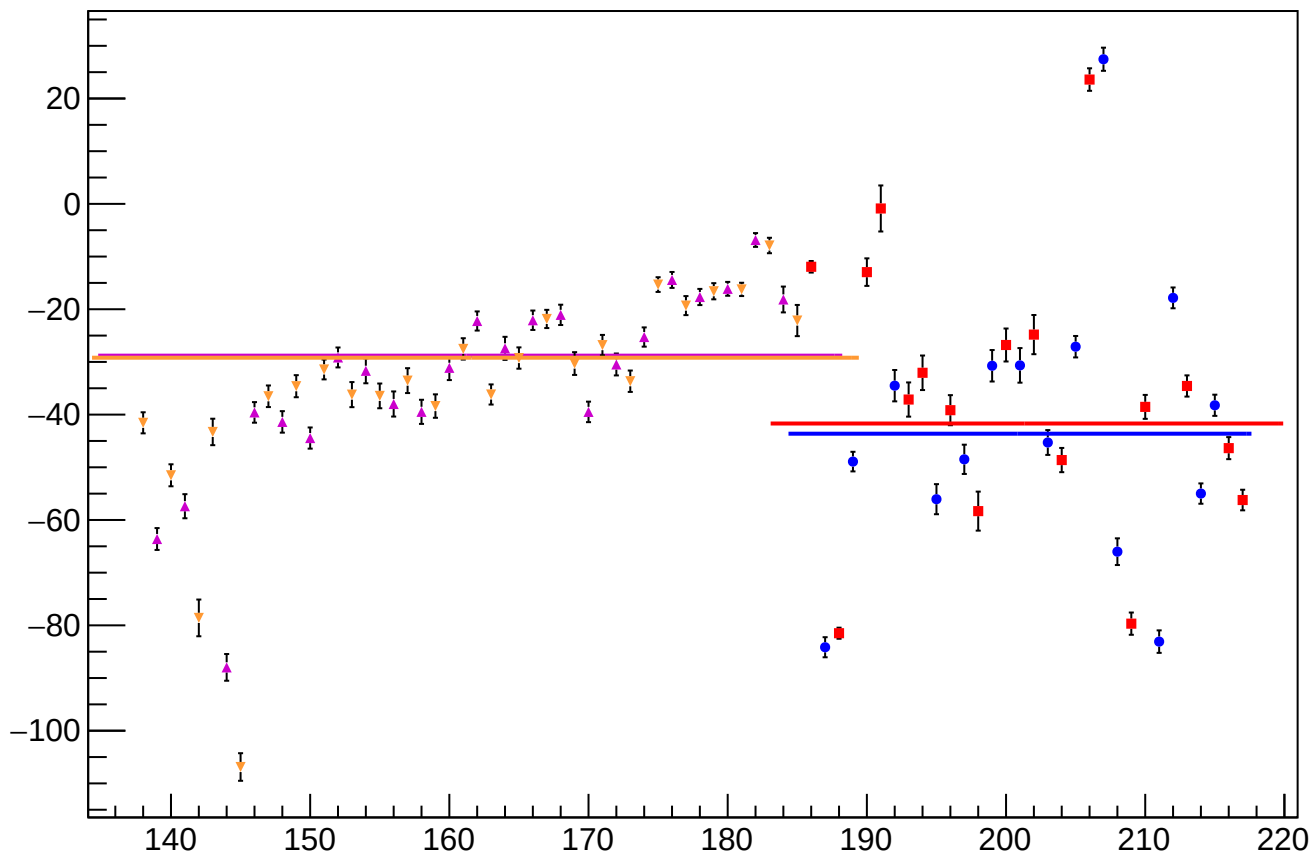
Right: 103.764 $\pm$ 0.046 χ^2 /NDF: 486181.5/67

In: 118.727 $\pm$ 0.035 χ^2 /NDF: 94925.1/54

Out: 113.884 $\pm$ 0.034 χ^2 /NDF: 492870.6/60

All: 116.199 $\pm$ 0.024 χ^2 /NDF: 597777.7/115

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -43.624 ± 0.586 χ^2/NDF : 2271.1/14

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -41.689 ± 0.497 χ^2/NDF : 3795.9/16

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

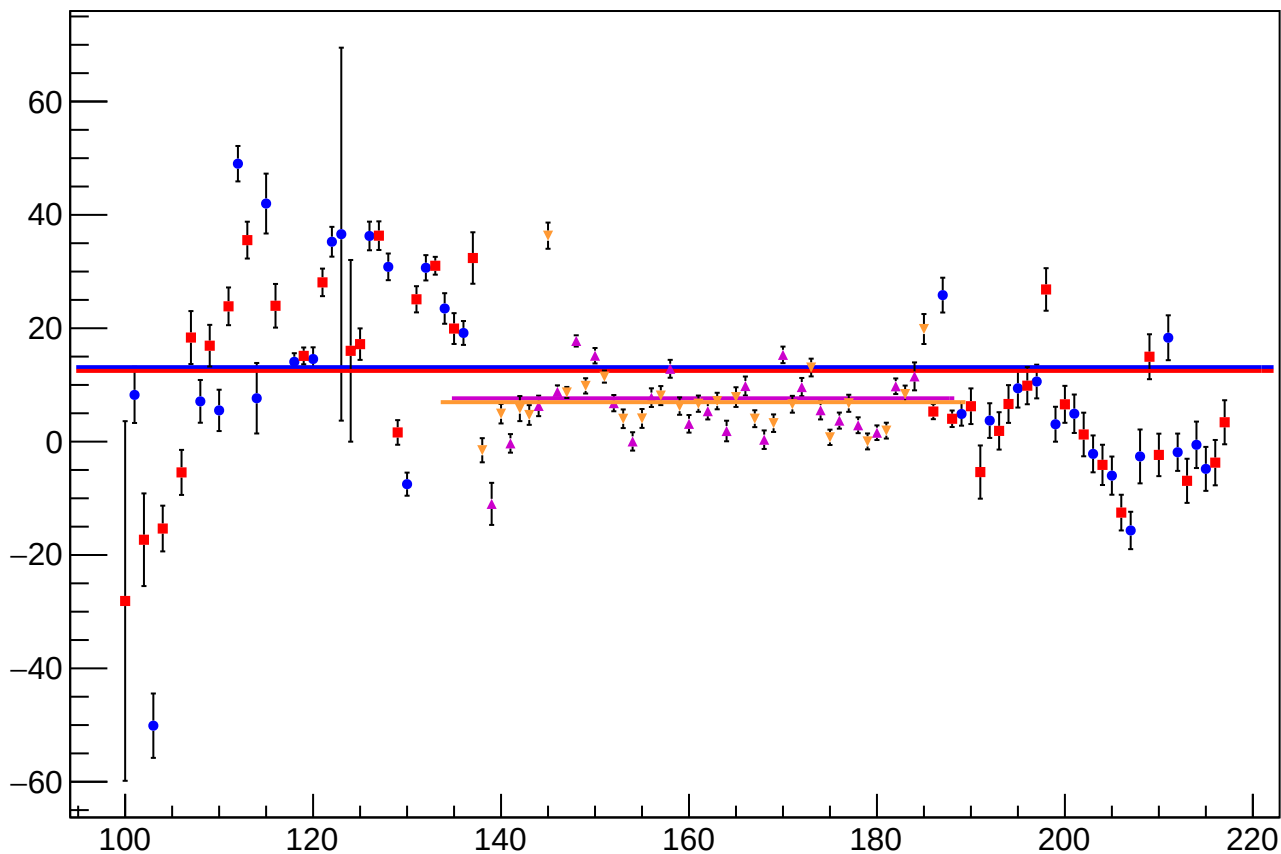
Right: -42.497 ± 0.379 χ^2/NDF : 6073.3/31

In: -33.441 ± 0.328 χ^2/NDF : 4473.9/37

Out: -33.943 ± 0.306 χ^2/NDF : 6069.8/41

All: -33.709 ± 0.224 χ^2/NDF : 10545.0/79

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.136 $\pm$ 0.514 χ^2 /NDF: 952.5/31

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.477 $\pm$ 0.466 χ^2 /NDF: 782.9/35

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

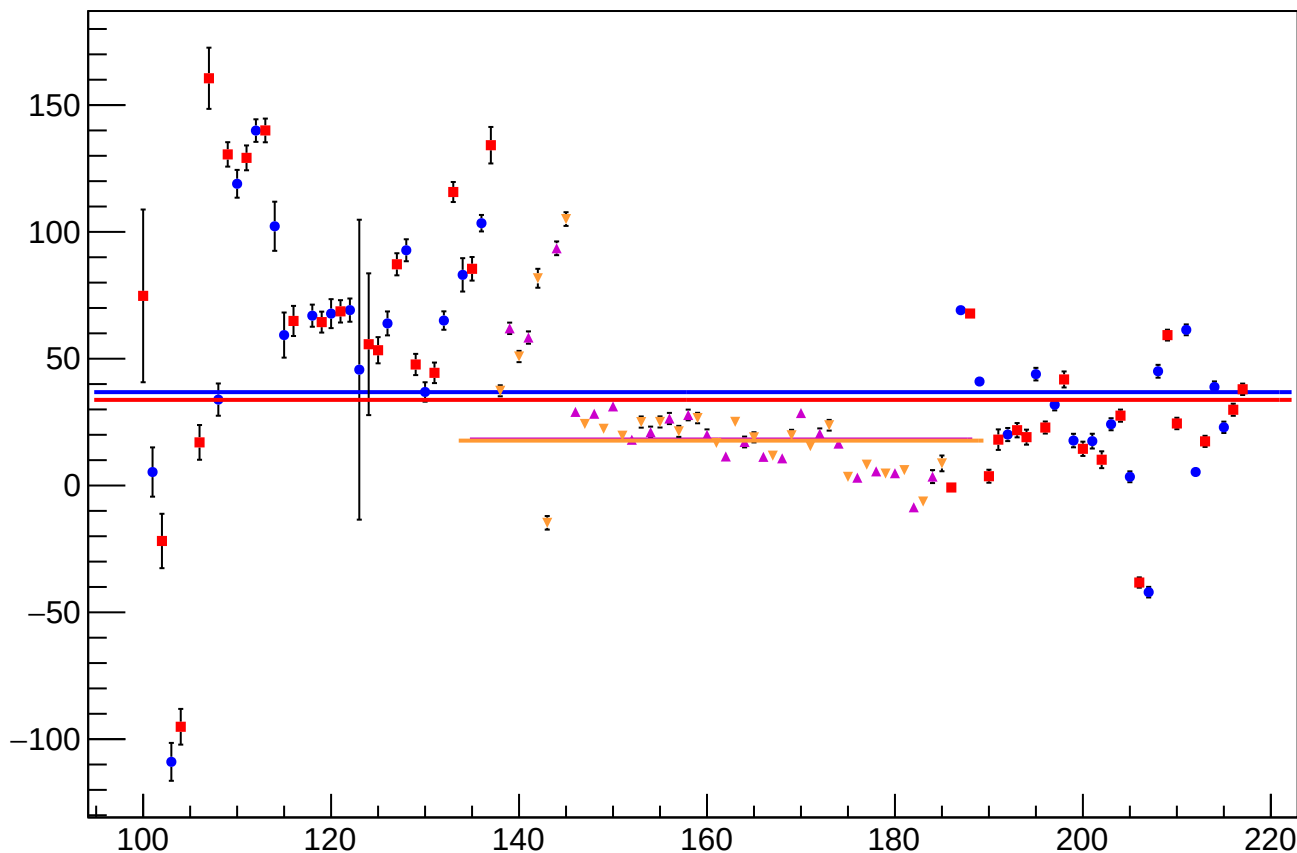
Right: 12.774 $\pm$ 0.345 χ^2 /NDF: 1736.3/67

In: 9.127 $\pm$ 0.268 χ^2 /NDF:1373.5/54

Out: 8.599 $\pm$ 0.254 χ^2 /NDF:1202.7/60

All: 8.849 $\pm$ 0.184 χ^2 /NDF: 2578.3/115

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.820+/-0.507 χ^2/NDF : 4774.3/31

Left Out: 17.705+/-0.387 χ^2/NDF : 2432.2/24

Right Out: 33.766+/-0.418 χ^2/NDF : 7831.5/35

Left In: 18.150+/-0.393 χ^2/NDF : 2339.4/22

Left: 17.924+/-0.276 χ^2/NDF : 4772.2/47

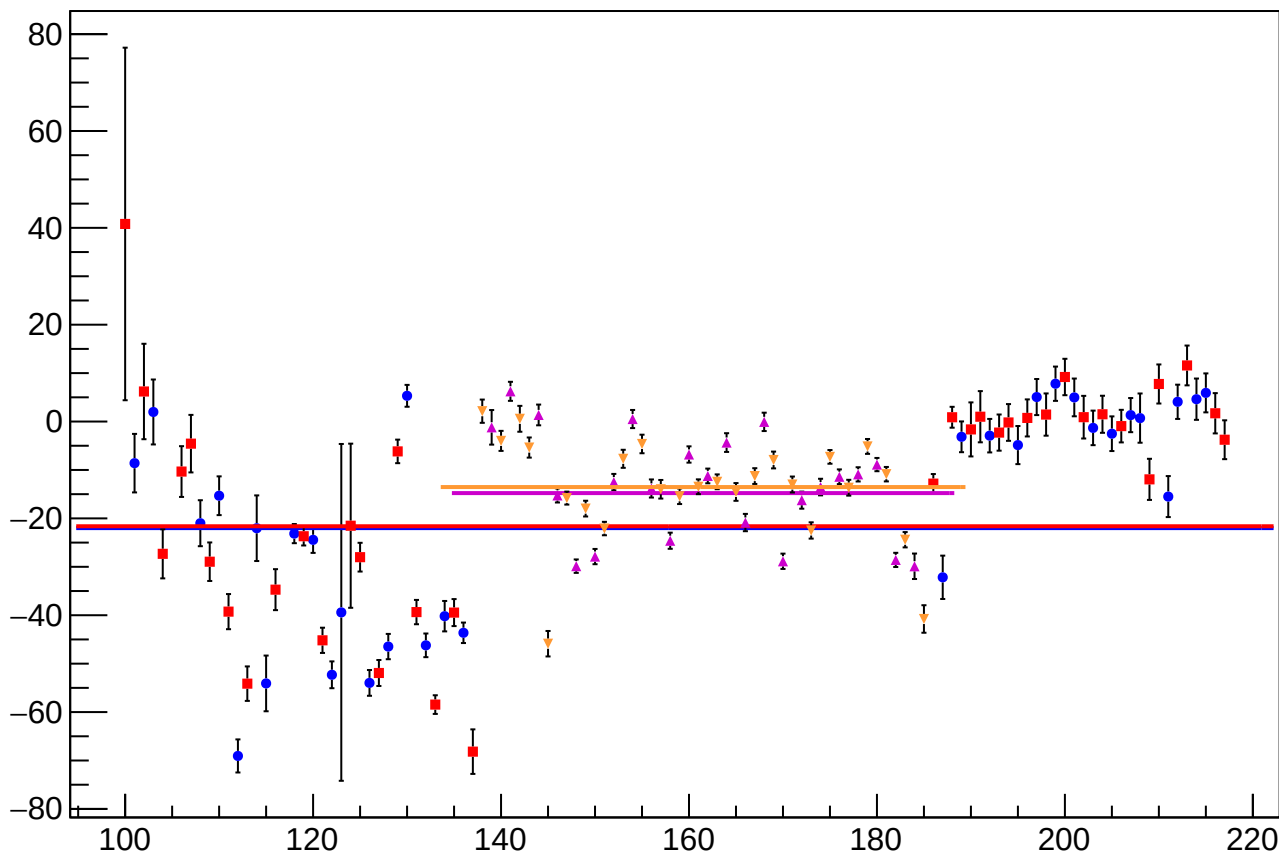
Right: 35.002+/-0.322 χ^2/NDF : 12627.4/67

In: 25.151+/-0.310 χ^2/NDF : 7961.7/54

Out: 25.123+/-0.284 χ^2/NDF : 11058.2/60

All: 25.136+/-0.210 χ^2/NDF : 19019.9/115

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.007 ± 0.594 $\chi^2/\text{NDF}: 1509.8/31$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -21.627 ± 0.558 $\chi^2/\text{NDF}: 1582.6/35$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

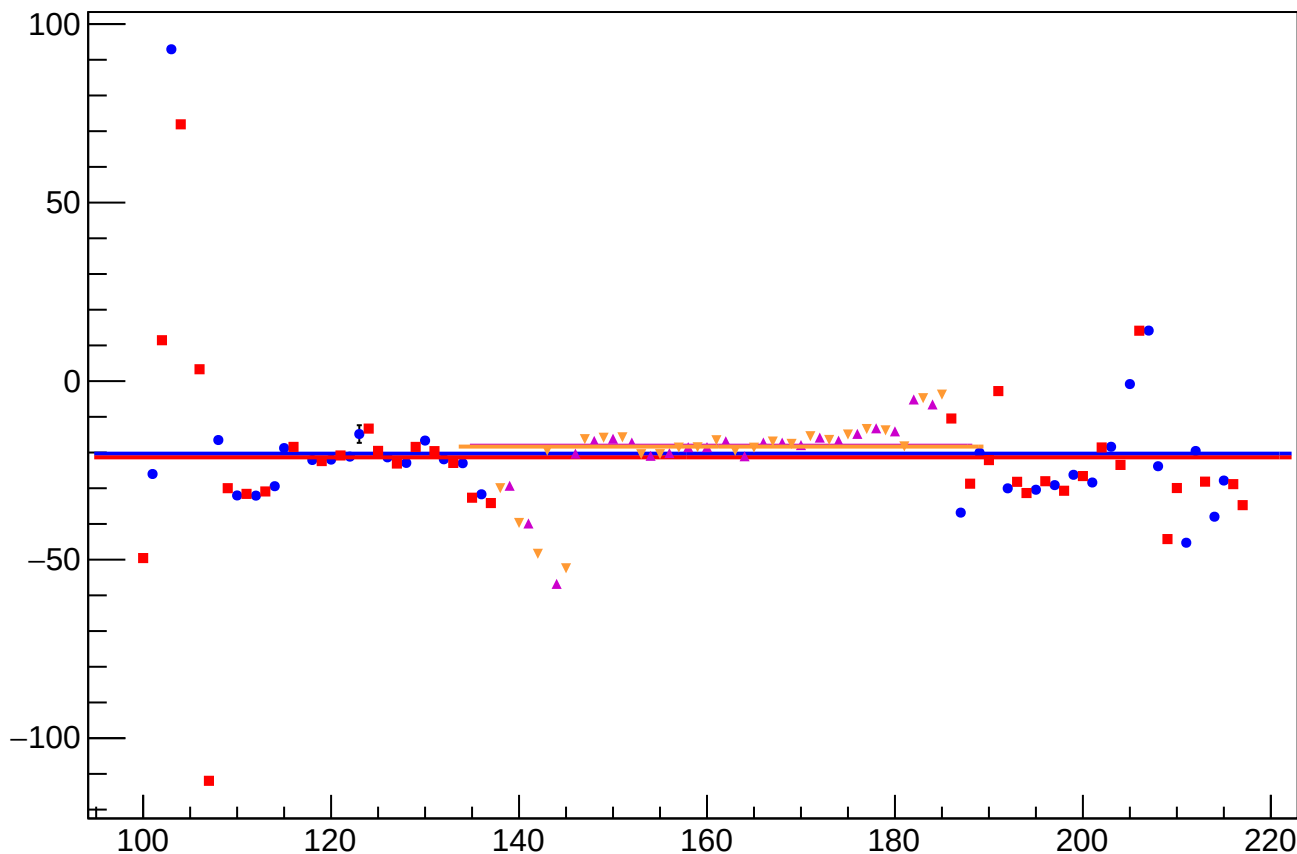
Right: -21.805 ± 0.406 $\chi^2/\text{NDF}: 3092.6/67$

In: -16.676 ± 0.304 $\chi^2/\text{NDF}: 2457.2/54$

Out: -15.763 ± 0.293 $\chi^2/\text{NDF}: 2308.1/60$

All: -16.202 ± 0.211 $\chi^2/\text{NDF}: 4769.9/115$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.316 $\pm$ 0.028 χ^2 /NDF: 619395.8/31

Left Out: -18.334 $\pm$ 0.016 χ^2 /NDF: 284152.1/24

Right Out: -21.351 $\pm$ 0.027 χ^2 /NDF: 583577.8/35

Left In: -18.083 $\pm$ 0.016 χ^2 /NDF: 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2 /NDF: 526224.9/47

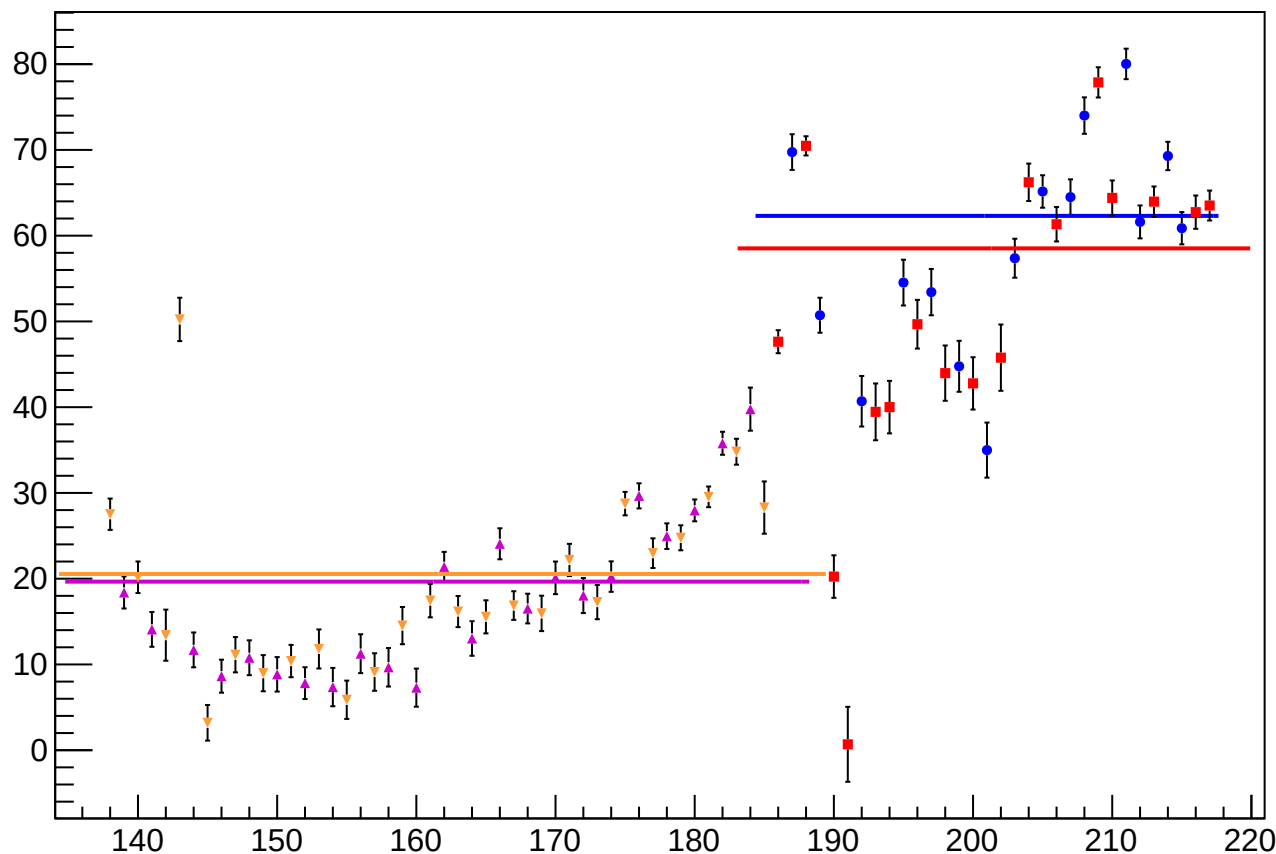
Right: -20.855 $\pm$ 0.020 χ^2 /NDF: 1203667.6/67

In: -18.626 $\pm$ 0.014 χ^2 /NDF: 866029.7/54

Out: -19.099 $\pm$ 0.014 χ^2 /NDF: 876921.3/60

All: -18.868 $\pm$ 0.010 χ^2 /NDF: 1743533.3/115

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.307 ± 0.556 $\chi^2/\text{NDF}: 381.5/14$

Left Out: 20.550 ± 0.373 $\chi^2/\text{NDF}: 626.4/24$

Right Out: 58.519 ± 0.494 $\chi^2/\text{NDF}: 896.4/16$

Left In: 19.656 ± 0.380 $\chi^2/\text{NDF}: 571.8/22$

Left: 20.112 ± 0.266 $\chi^2/\text{NDF}: 1201.0/47$

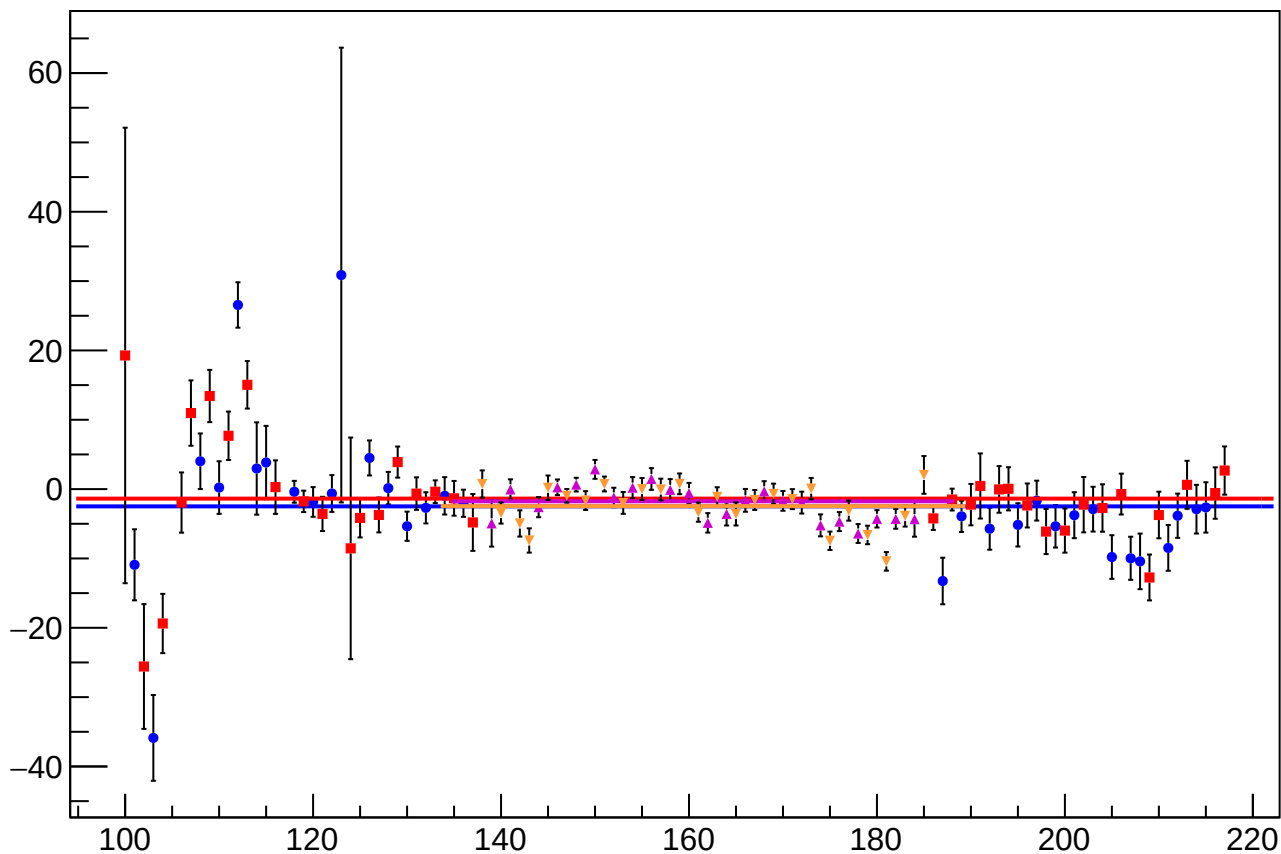
Right: 60.191 ± 0.369 $\chi^2/\text{NDF}: 1303.8/31$

In: 33.259 ± 0.314 $\chi^2/\text{NDF}: 4962.7/37$

Out: 34.339 ± 0.298 $\chi^2/\text{NDF}: 5284.7/41$

All: 33.828 ± 0.216 $\chi^2/\text{NDF}: 10253.6/79$

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.489 ± 0.513 χ^2/NDF : 162.6/31

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.371 ± 0.476 χ^2/NDF : 109.4/35

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

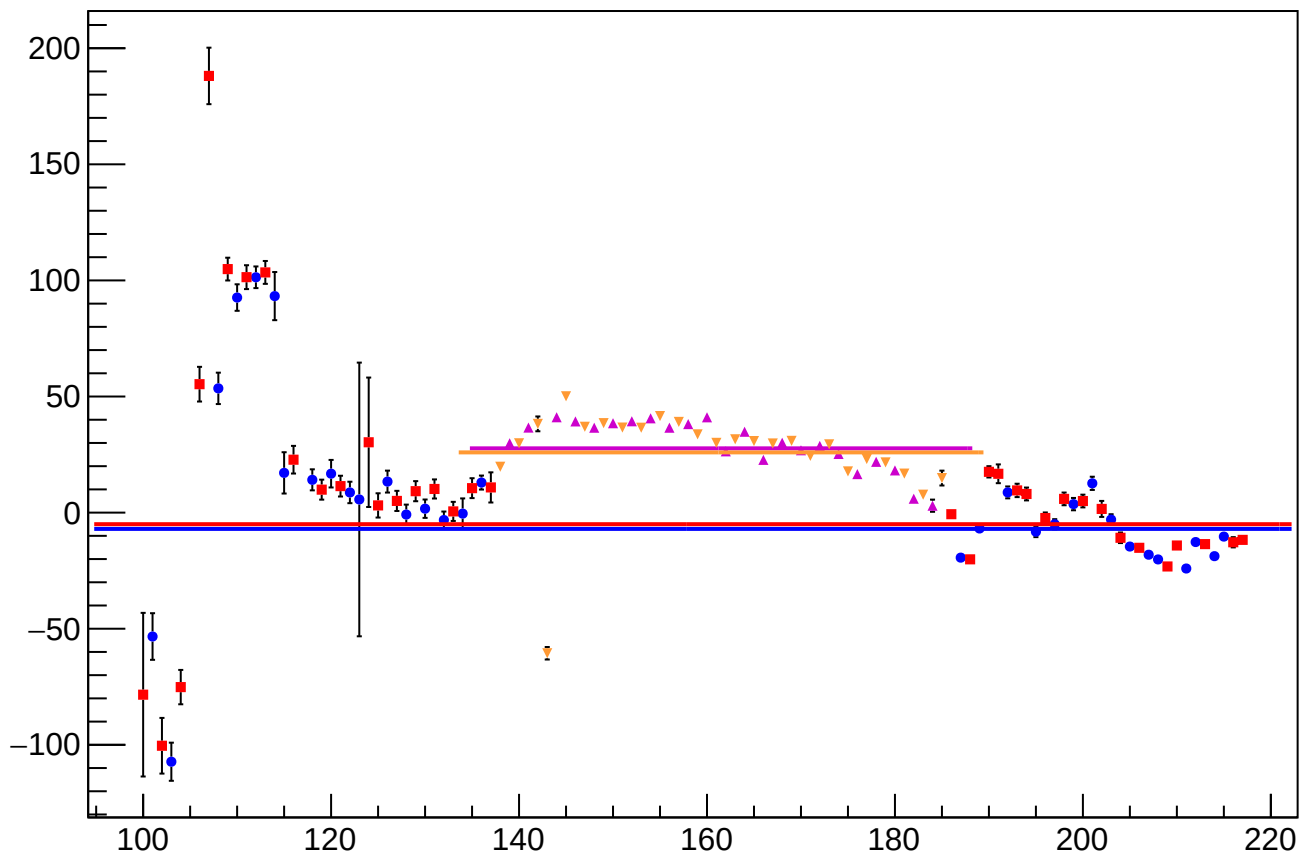
Right: -1.889 ± 0.349 χ^2/NDF : 274.6/67

In: -1.946 ± 0.260 χ^2/NDF : 231.6/54

Out: -2.158 ± 0.249 χ^2/NDF : 219.1/60

All: -2.057 ± 0.180 χ^2/NDF : 451.0/115

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.011 ± 0.492 $\chi^2/\text{NDF}: 1701.2/31$

Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$

Right Out: -4.985 ± 0.427 $\chi^2/\text{NDF}: 2687.3/35$

Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$

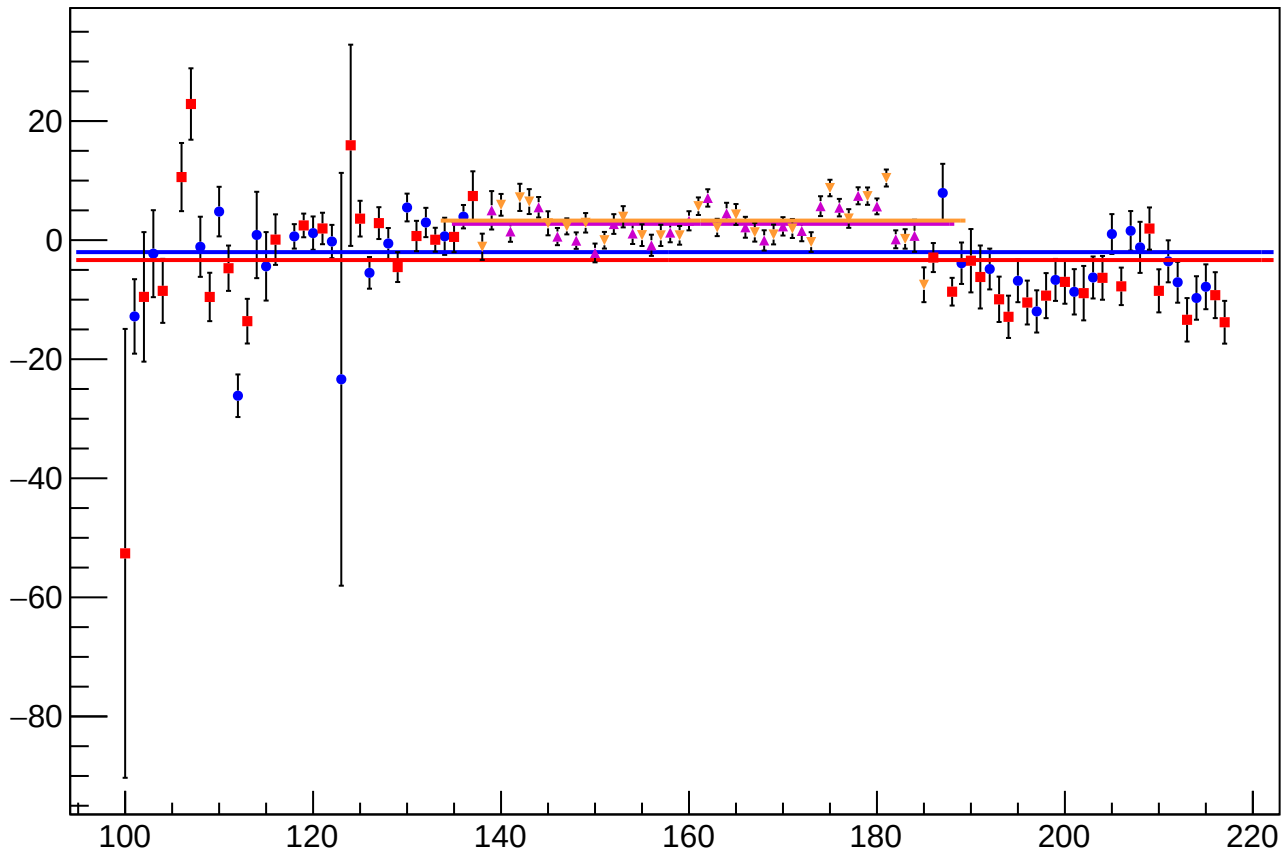
Right: -5.855 ± 0.322 $\chi^2/\text{NDF}: 4398.2/67$

In: 14.793 ± 0.300 $\chi^2/\text{NDF}: 5629.2/54$

Out: 12.574 ± 0.281 $\chi^2/\text{NDF}: 7379.8/60$

All: 13.610 ± 0.205 $\chi^2/\text{NDF}: 13038.2/115$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.013 ± 0.587 χ^2/NDF : 113.9/31

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.346 ± 0.562 χ^2/NDF : 127.5/35

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

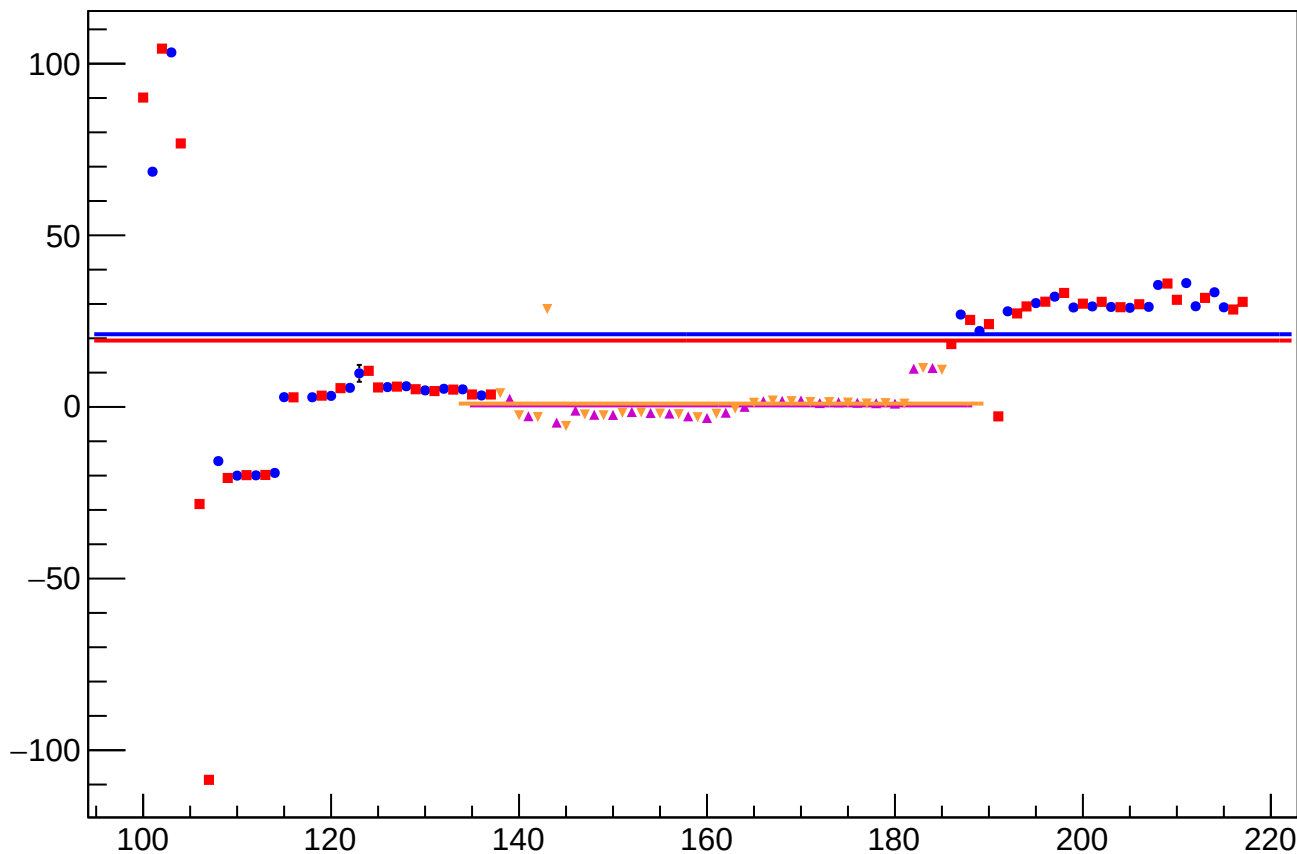
Right: -2.708 ± 0.406 χ^2/NDF : 244.1/67

In: 1.538 ± 0.295 χ^2/NDF : 227.3/54

Out: 1.572 ± 0.285 χ^2/NDF : 333.1/60

All: 1.556 ± 0.205 χ^2/NDF : 560.4/115

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.179+/-0.028 χ^2/NDF : 514070.7/31

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 19.344+/-0.027 χ^2/NDF : 749909.1/35

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

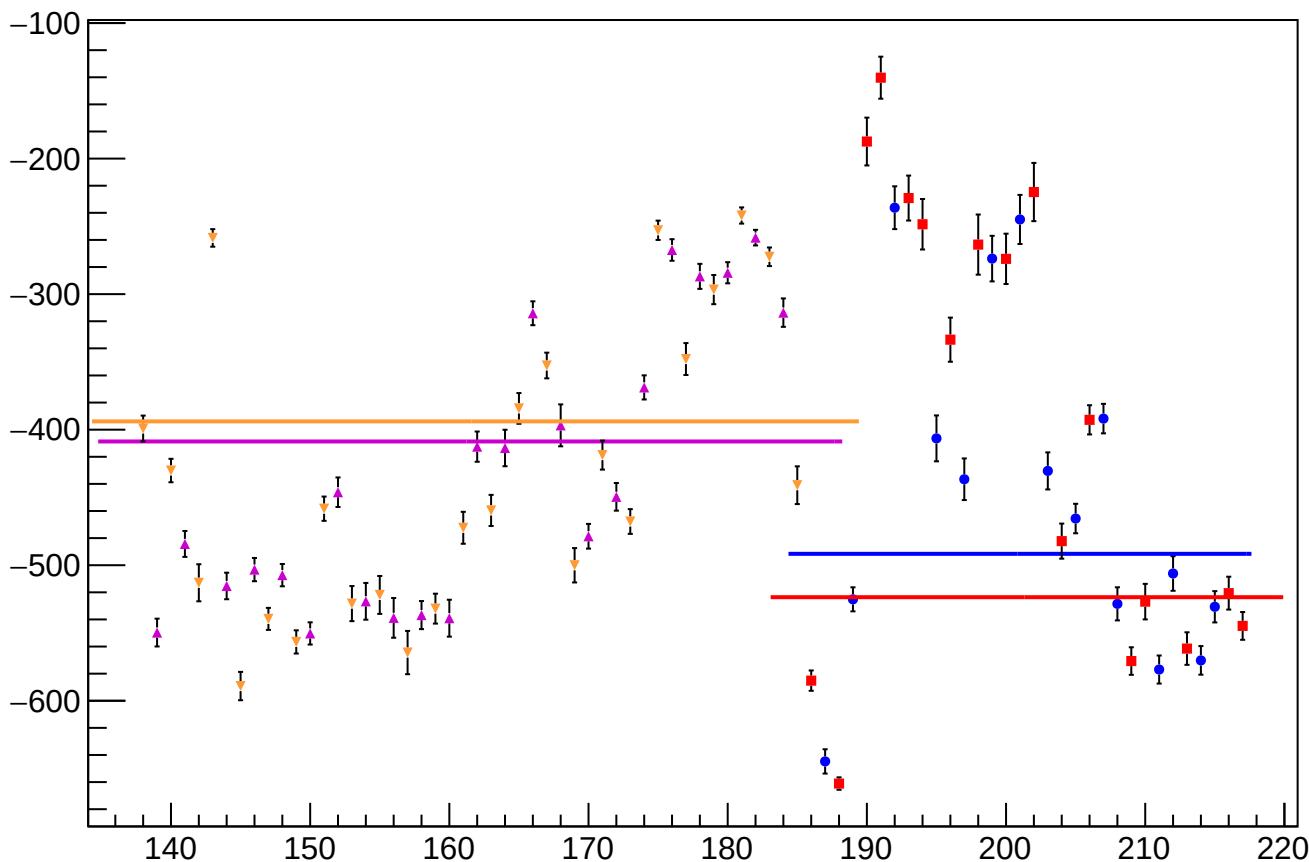
Right: 20.231+/-0.019 χ^2/NDF : 1266252.7/67

In: 5.369+/-0.013 χ^2/NDF : 992850.5/54

Out: 5.454+/-0.013 χ^2/NDF : 1223458.9/60

All: 5.413+/-0.009 χ^2/NDF : 2216329.9/115

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -491.593 ± 3.095 $\chi^2/\text{NDF}: 1214.1/14$

Left Out: -393.871 ± 1.897 $\chi^2/\text{NDF}: 3772.8/24$

Right Out: -523.596 ± 2.642 $\chi^2/\text{NDF}: 3312.8/16$

Left In: -408.696 ± 1.979 $\chi^2/\text{NDF}: 3062.9/22$

Left: -400.970 ± 1.369 $\chi^2/\text{NDF}: 6864.9/47$

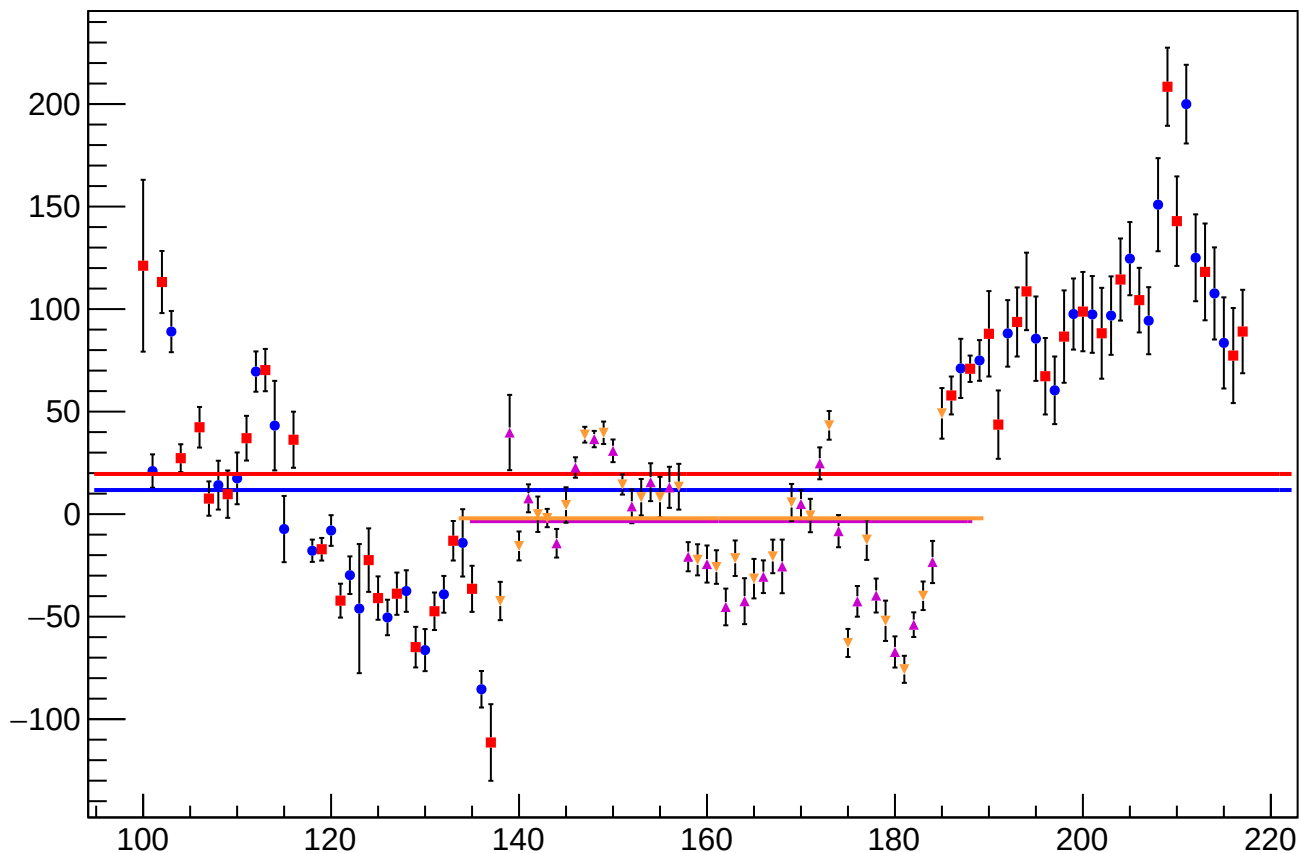
Right: -510.107 ± 2.009 $\chi^2/\text{NDF}: 4588.8/31$

In: -432.754 ± 1.667 $\chi^2/\text{NDF}: 4786.2/37$

Out: -438.007 ± 1.541 $\chi^2/\text{NDF}: 8676.6/41$

All: -435.587 ± 1.132 $\chi^2/\text{NDF}: 13468.2/79$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.751+/-2.076 χ^2 /NDF: 868.8/31

Left Out: -2.037+/-1.424 χ^2 /NDF:563.8/24

Right Out: 19.589+/-1.922 χ^2 /NDF: 859.8/35

Left In: -3.420+/-1.520 χ^2 /NDF:451.0/22

Left: -2.683+/-1.039 χ^2 /NDF: 1015.2/47

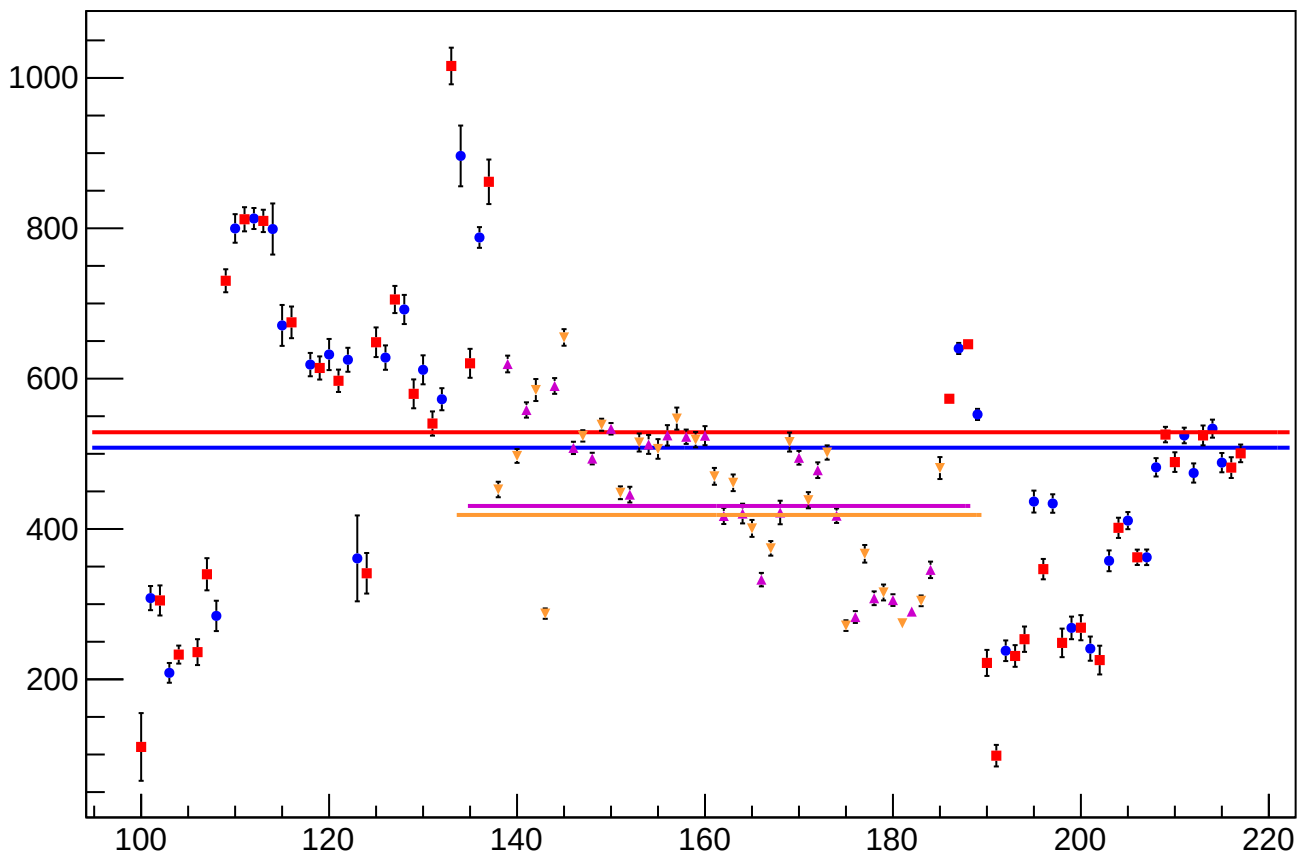
Right: 15.972+/-1.410 χ^2 /NDF: 1736.3/67

In: 1.875+/-1.226 χ^2 /NDF:1354.6/54

Out: 5.629+/-1.144 χ^2 /NDF:1505.3/60

All: 3.882+/-0.837 χ^2 /NDF: 2864.9/115

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.131 $\pm$ 2.414 χ^2 /NDF: 4204.4/31

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 528.684 $\pm$ 2.044 χ^2 /NDF: 7106.2/35

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

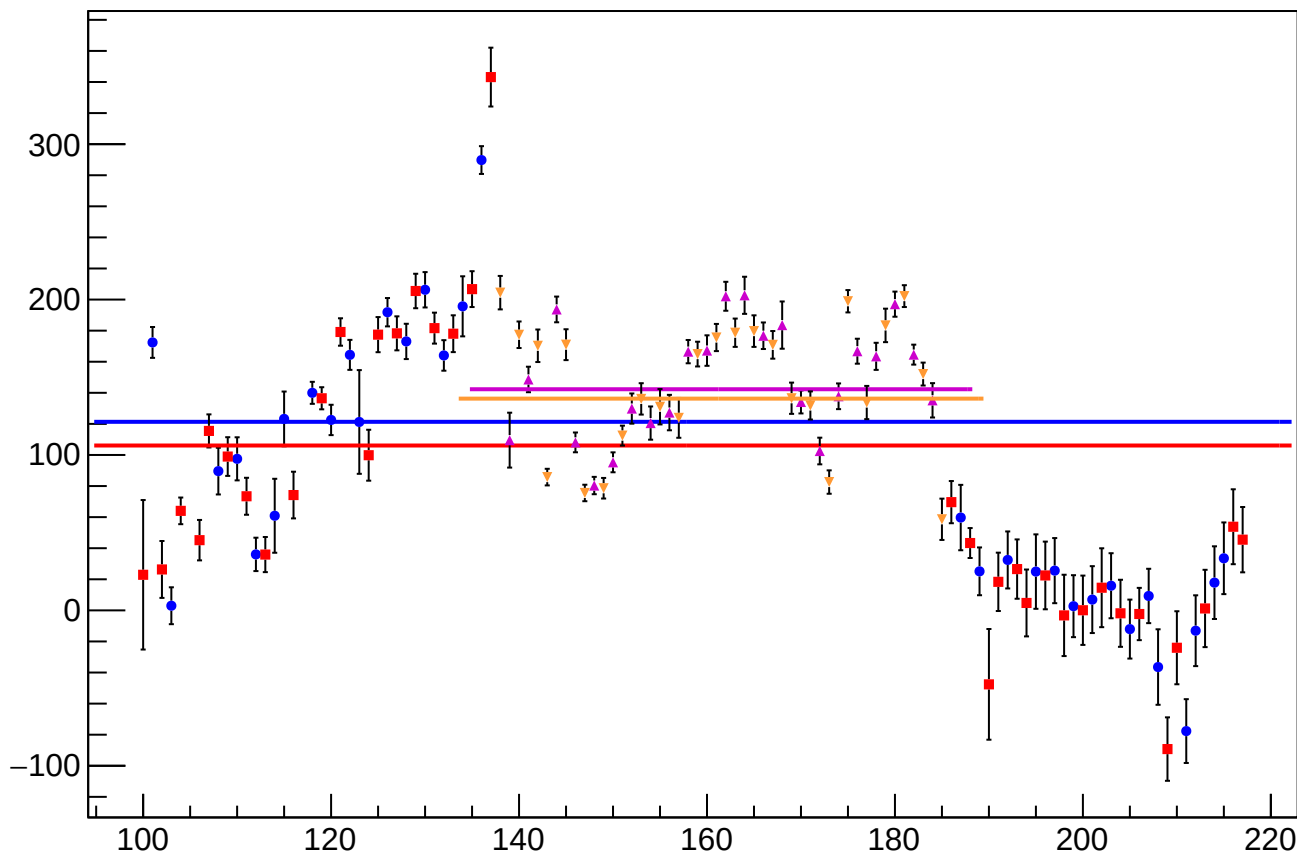
Right: 520.099 $\pm$ 1.560 χ^2 /NDF: 11352.9/67

In: 461.632 $\pm$ 1.527 χ^2 /NDF:7673.4/54

Out: 469.802 $\pm$ 1.394 χ^2 /NDF:11952.6/60

All: 466.088 $\pm$ 1.029 χ^2 /NDF: 19641.5/115

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 121.336 $\pm$ 2.412 χ^2 /NDF: 1247.4/31

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF:758.3/24

Right Out: 106.088 $\pm$ 2.276 χ^2 /NDF: 1114.7/35

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF:459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

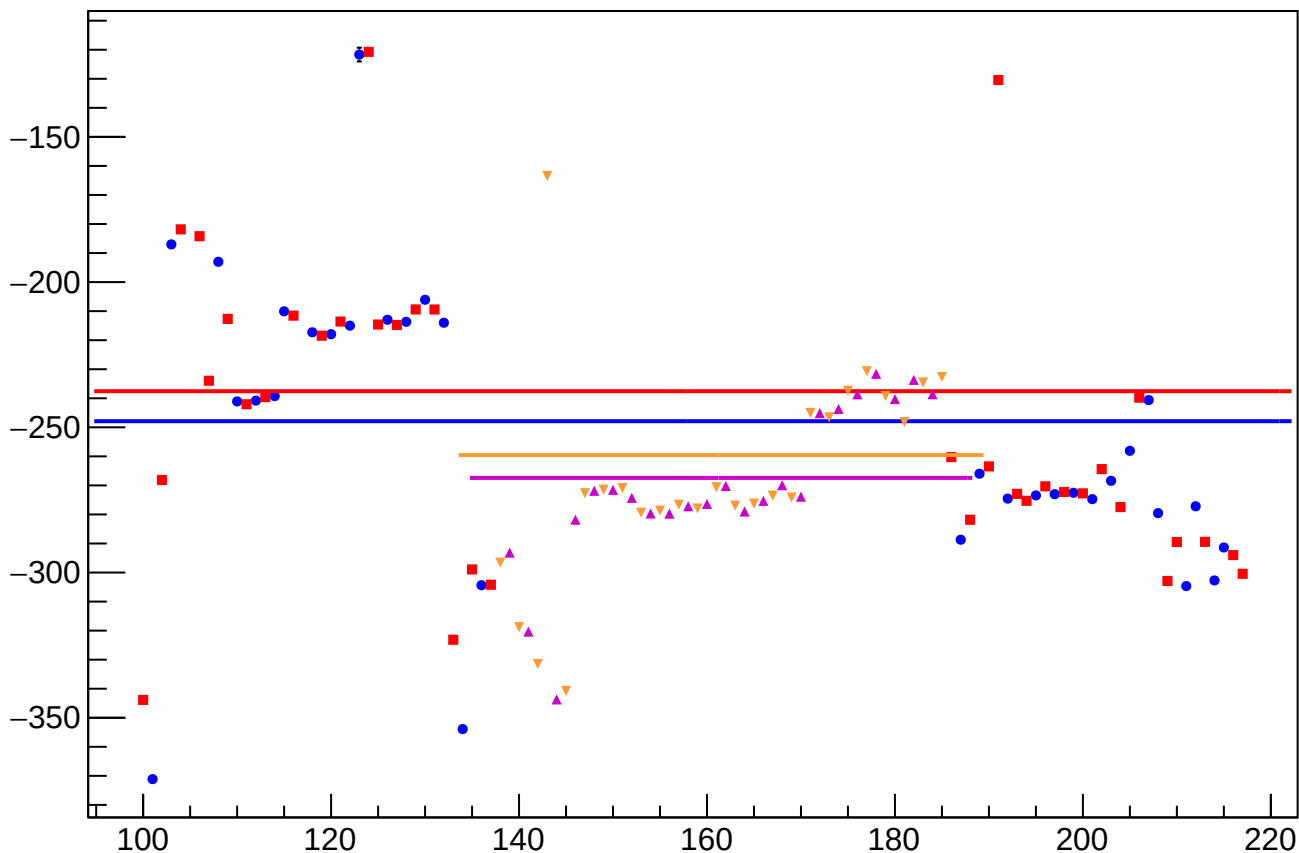
Right: 113.268 $\pm$ 1.655 χ^2 /NDF: 2383.2/67

In: 135.098 $\pm$ 1.414 χ^2 /NDF:1756.8/54

Out: 125.856 $\pm$ 1.336 χ^2 /NDF:1988.1/60

All: 130.217 $\pm$ 0.971 χ^2 /NDF: 3767.4/115

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -247.893 ± 0.120 $\chi^2/\text{NDF}: 172590.1/31$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -237.571 ± 0.112 $\chi^2/\text{NDF}: 187765.0/35$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

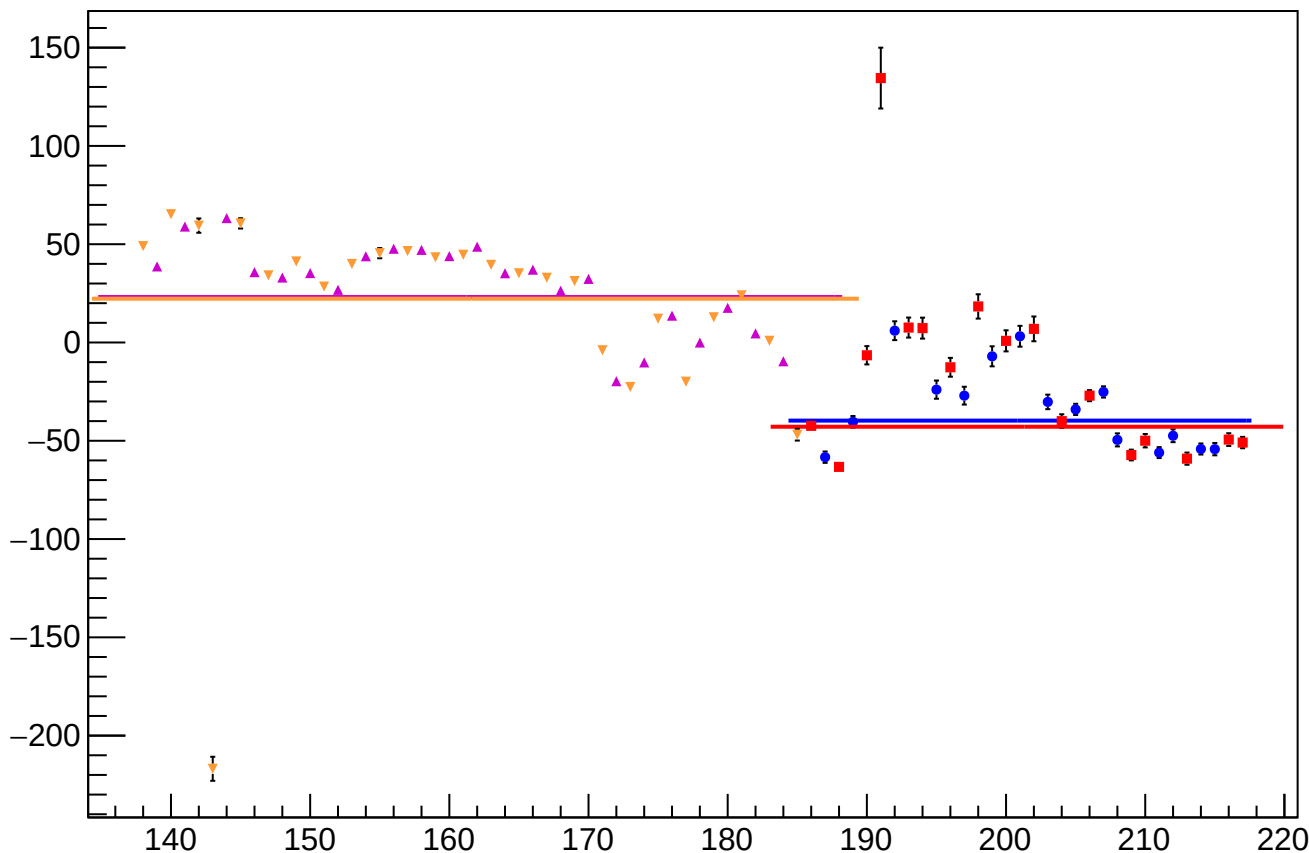
Right: -242.360 ± 0.082 $\chi^2/\text{NDF}: 364328.9/67$

In: -261.228 ± 0.067 $\chi^2/\text{NDF}: 288741.9/54$

Out: -252.201 ± 0.065 $\chi^2/\text{NDF}: 451857.2/60$

All: -256.510 ± 0.047 $\chi^2/\text{NDF}: 749947.1/115$

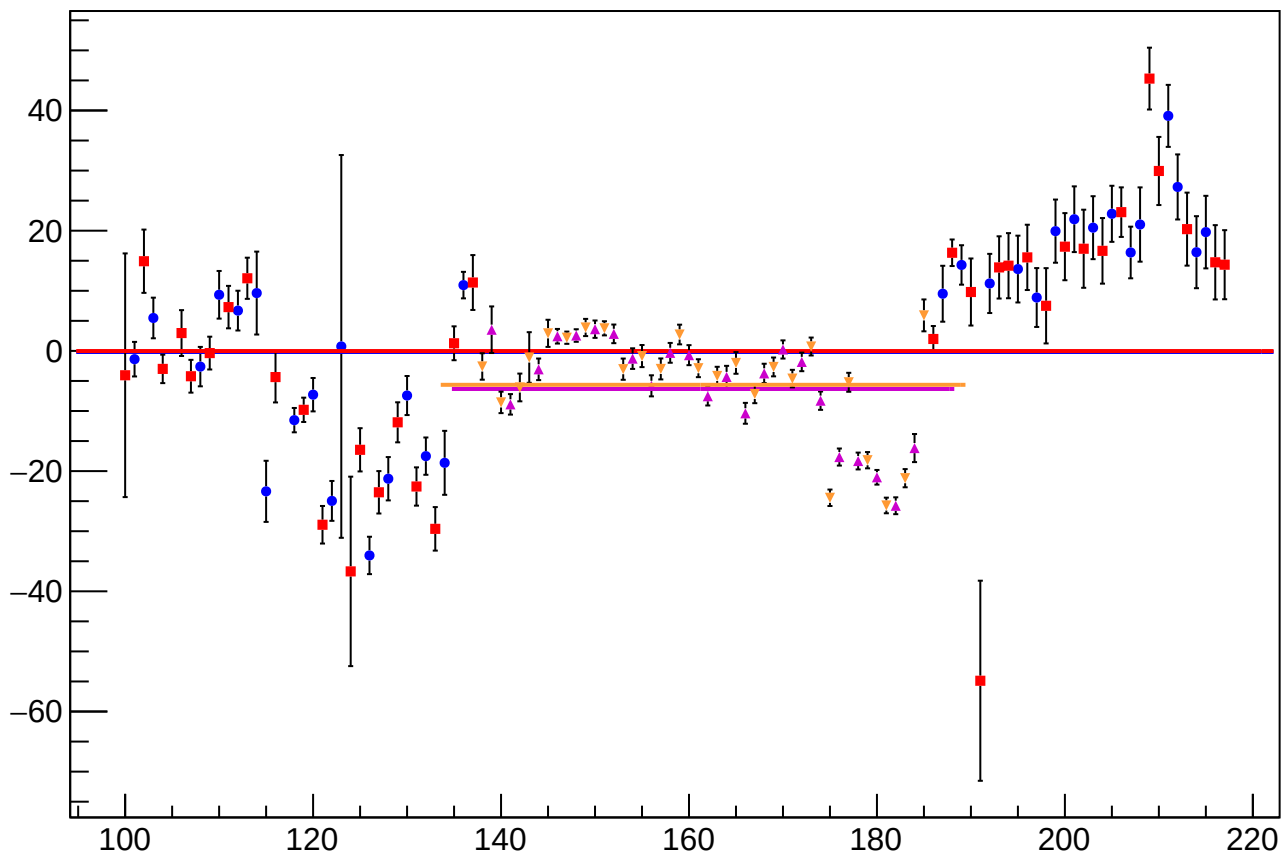
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.745 ± 0.875 $\chi^2/\text{NDF}: 391.8/14$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -42.857 ± 0.758 $\chi^2/\text{NDF}: 920.2/16$
 Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$
 Right: -41.522 ± 0.573 $\chi^2/\text{NDF}: 1319.2/31$
 In: 12.198 ± 0.365 $\chi^2/\text{NDF}: 7404.2/37$
 Out: 8.172 ± 0.353 $\chi^2/\text{NDF}: 11870.1/41$
 All: 10.118 ± 0.254 $\chi^2/\text{NDF}: 19337.2/79$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.181 ± 0.672 χ^2/NDF : 594.9/31

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -0.024 ± 0.619 χ^2/NDF : 625.3/35

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

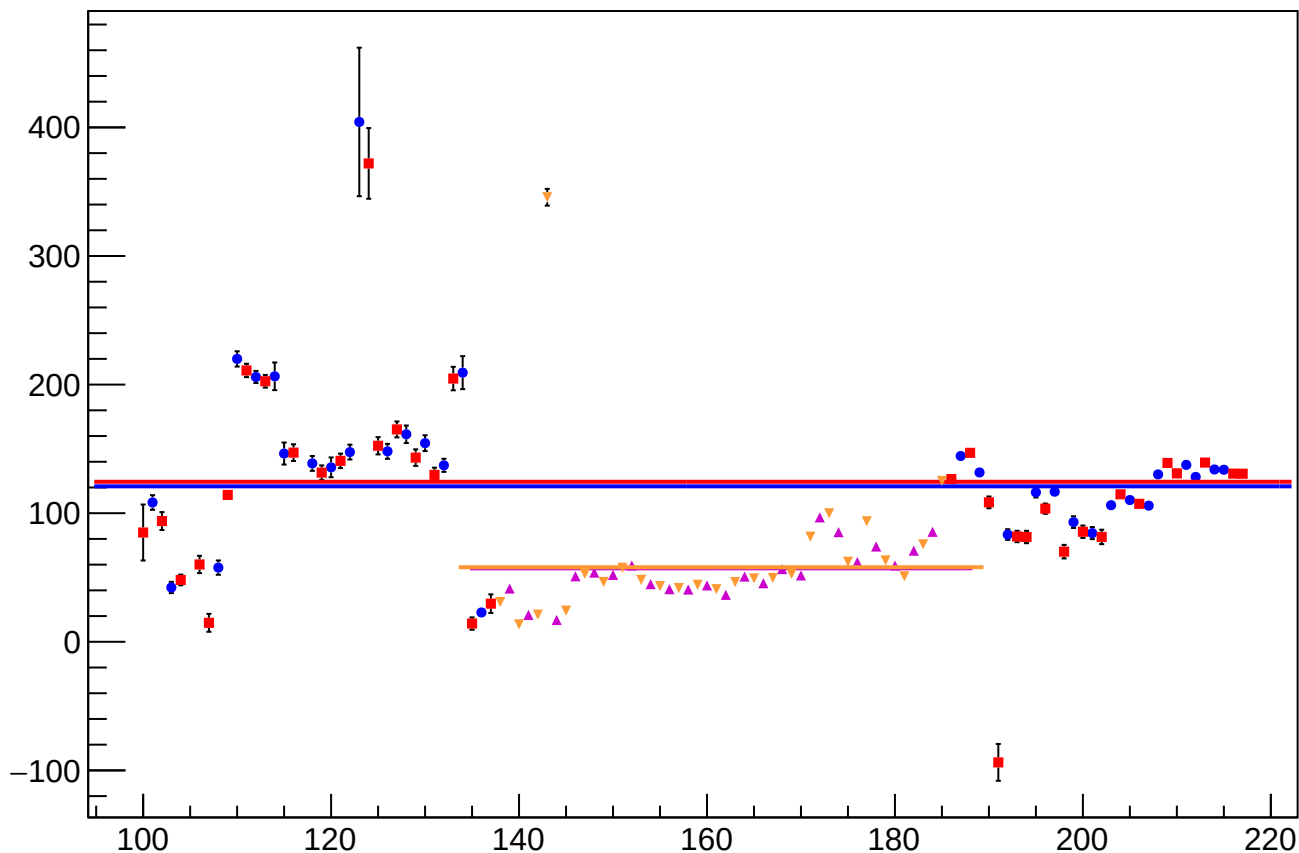
Right: -0.096 ± 0.455 χ^2/NDF : 1220.3/67

In: -5.192 ± 0.290 χ^2/NDF : 1446.2/54

Out: -4.483 ± 0.281 χ^2/NDF : 1584.5/60

All: -4.827 ± 0.202 χ^2/NDF : 3033.8/115

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 120.887 $\pm$ 0.719 χ^2 /NDF: 2602.3/31

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.447 $\pm$ 0.610 χ^2 /NDF: 3279.2/35

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

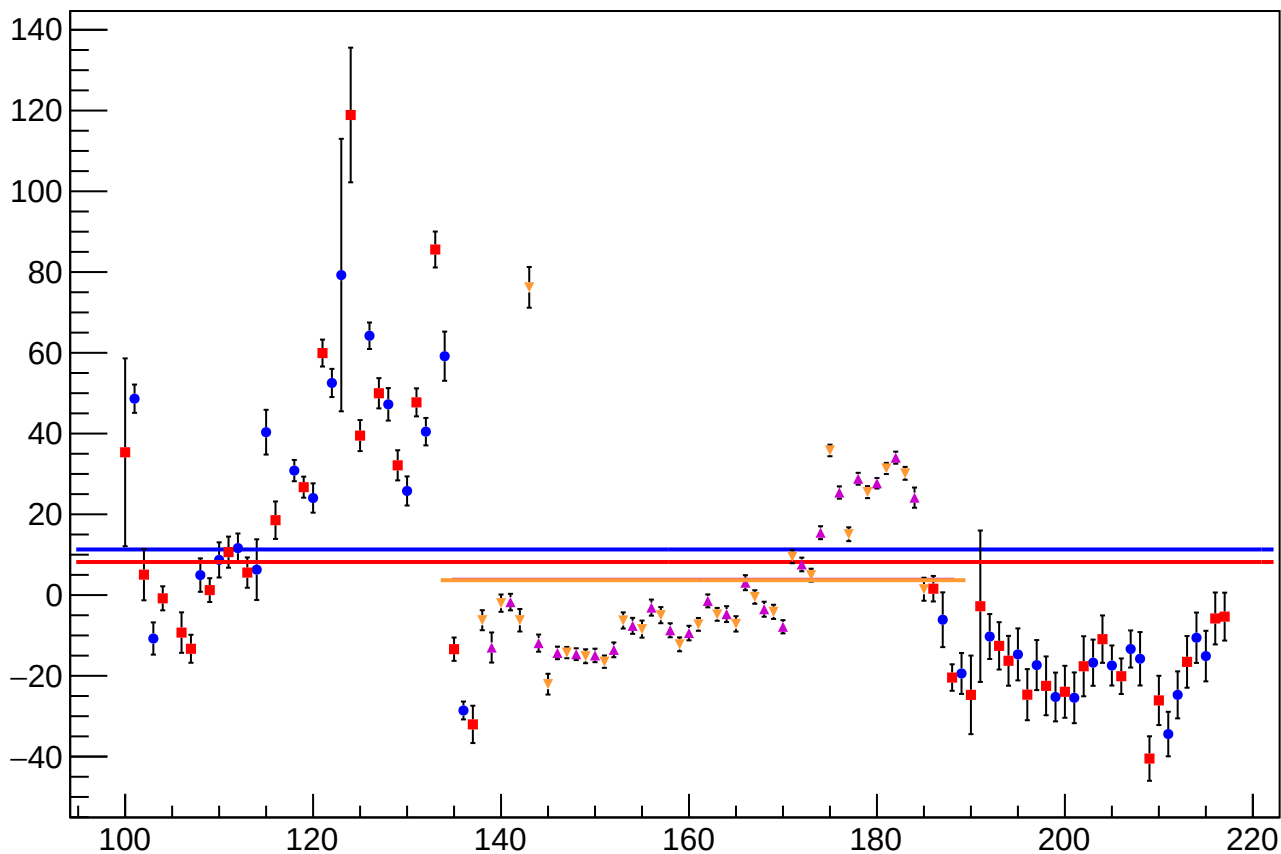
Right: 122.956 $\pm$ 0.465 χ^2 /NDF: 5895.8/67

In: 72.176 $\pm$ 0.349 χ^2 /NDF:10410.2/54

Out: 77.807 $\pm$ 0.333 χ^2 /NDF:16231.5/60

All: 75.123 $\pm$ 0.241 χ^2 /NDF: 26777.8/115

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.294 $\pm$ 0.770 χ^2 /NDF: 1609.0/31

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 8.193 $\pm$ 0.730 χ^2 /NDF: 1592.1/35

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

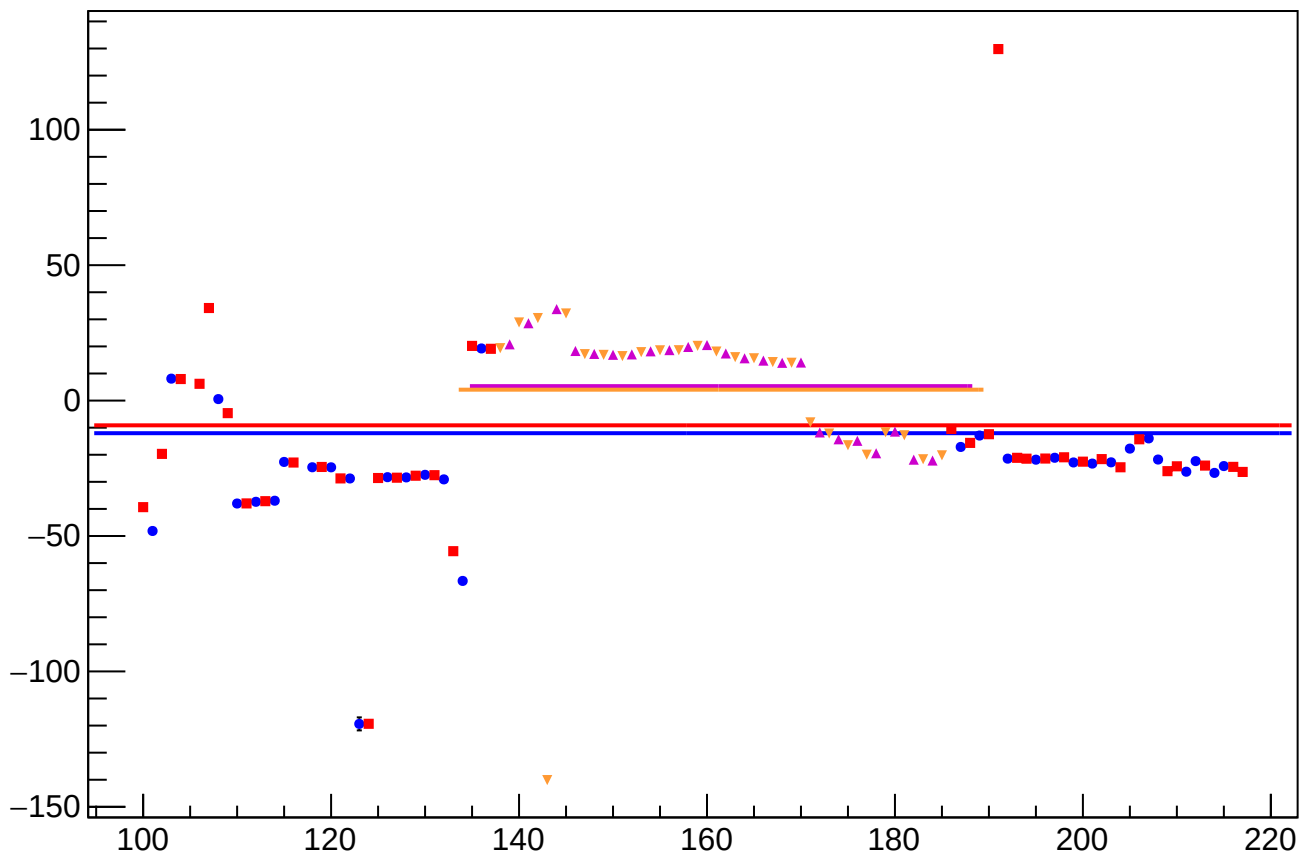
Right: 9.659 $\pm$ 0.530 χ^2 /NDF: 3209.6/67

In: 5.142 $\pm$ 0.327 χ^2 /NDF:3885.6/54

Out: 4.554 $\pm$ 0.320 χ^2 /NDF:4164.6/60

All: 4.842 $\pm$ 0.229 χ^2 /NDF: 8051.9/115

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.040 ± 0.036 χ^2/NDF : 307001.7/31

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.136 ± 0.035 χ^2/NDF : 401699.3/35

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

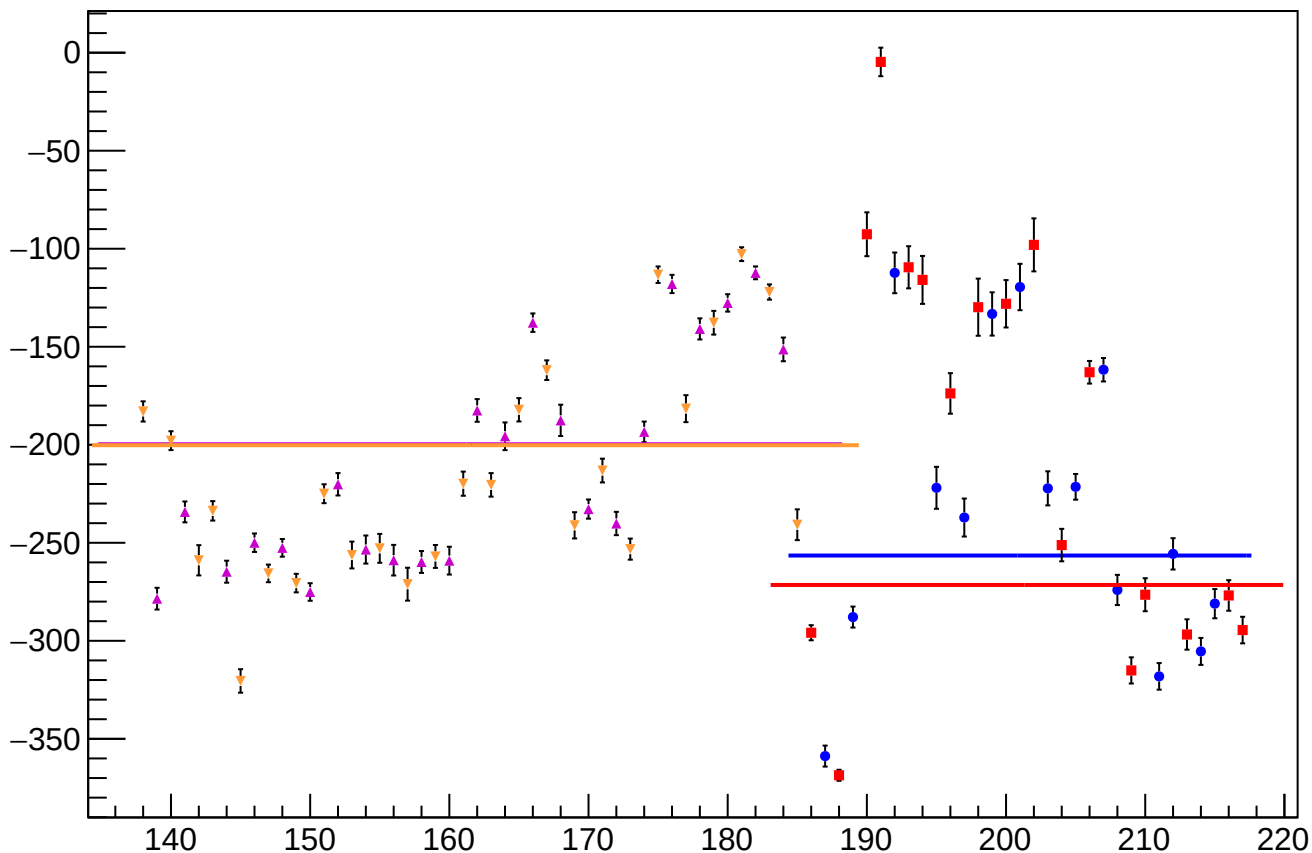
Right: -10.551 ± 0.025 χ^2/NDF : 712040.2/67

In: 2.340 ± 0.015 χ^2/NDF : 1577735.6/54

Out: 1.675 ± 0.015 χ^2/NDF : 1900399.1/60

All: 2.005 ± 0.011 χ^2/NDF : 3479134.3/115

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -256.496 $\pm$ 1.919 χ^2 /NDF: 1310.2/14

Left Out: -200.228 $\pm$ 1.078 χ^2 /NDF: 3225.0/24

Right Out: -271.516 $\pm$ 1.584 χ^2 /NDF: 4134.3/16

Left In: -199.739 $\pm$ 1.097 χ^2 /NDF: 2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2 /NDF: 6193.2/47

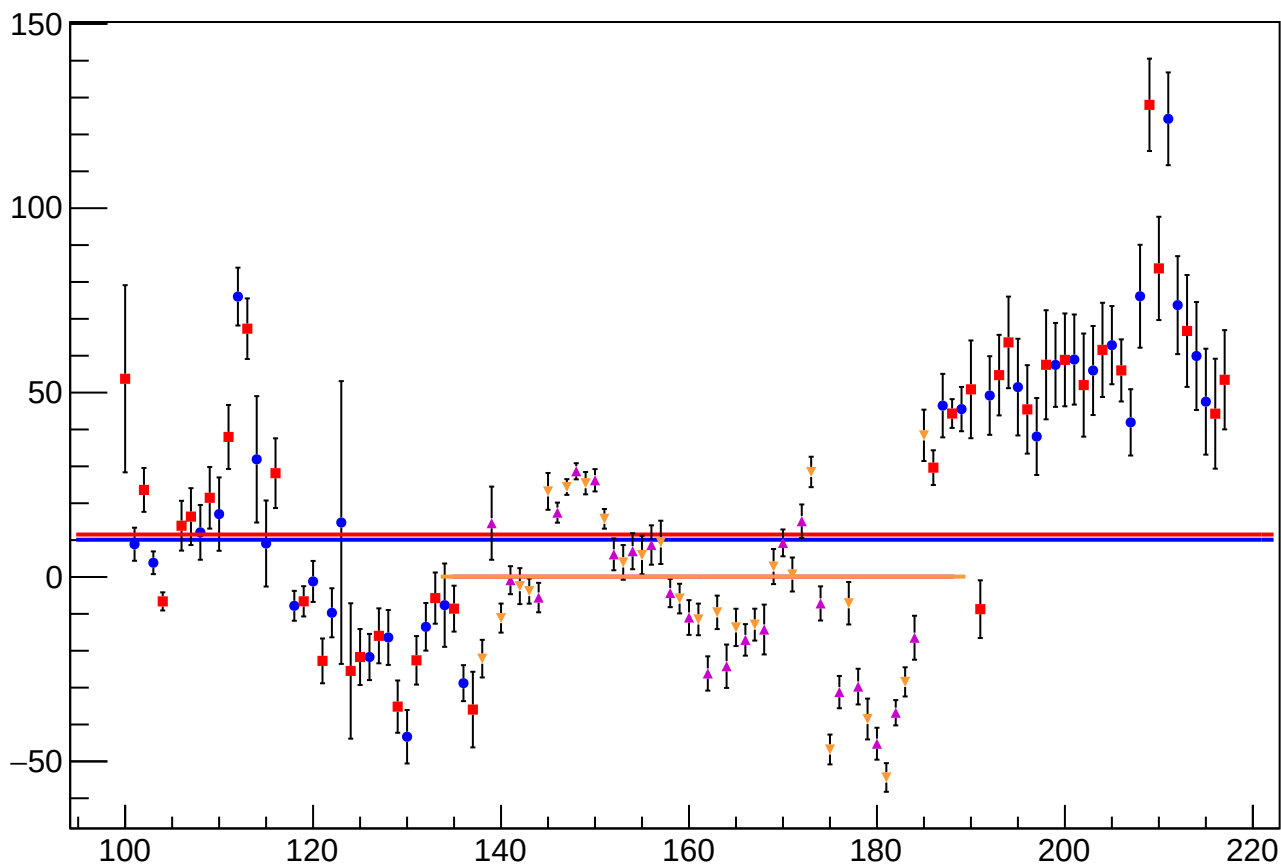
Right: -265.426 $\pm$ 1.222 χ^2 /NDF: 5480.9/31

In: -213.728 $\pm$ 0.953 χ^2 /NDF: 4937.5/37

Out: -222.781 $\pm$ 0.891 χ^2 /NDF: 8743.2/41

All: -218.556 $\pm$ 0.651 χ^2 /NDF: 13728.9/79

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.105 ± 1.294 $\chi^2/\text{NDF}: 596.0/31$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 11.513 ± 1.172 $\chi^2/\text{NDF}: 677.2/35$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

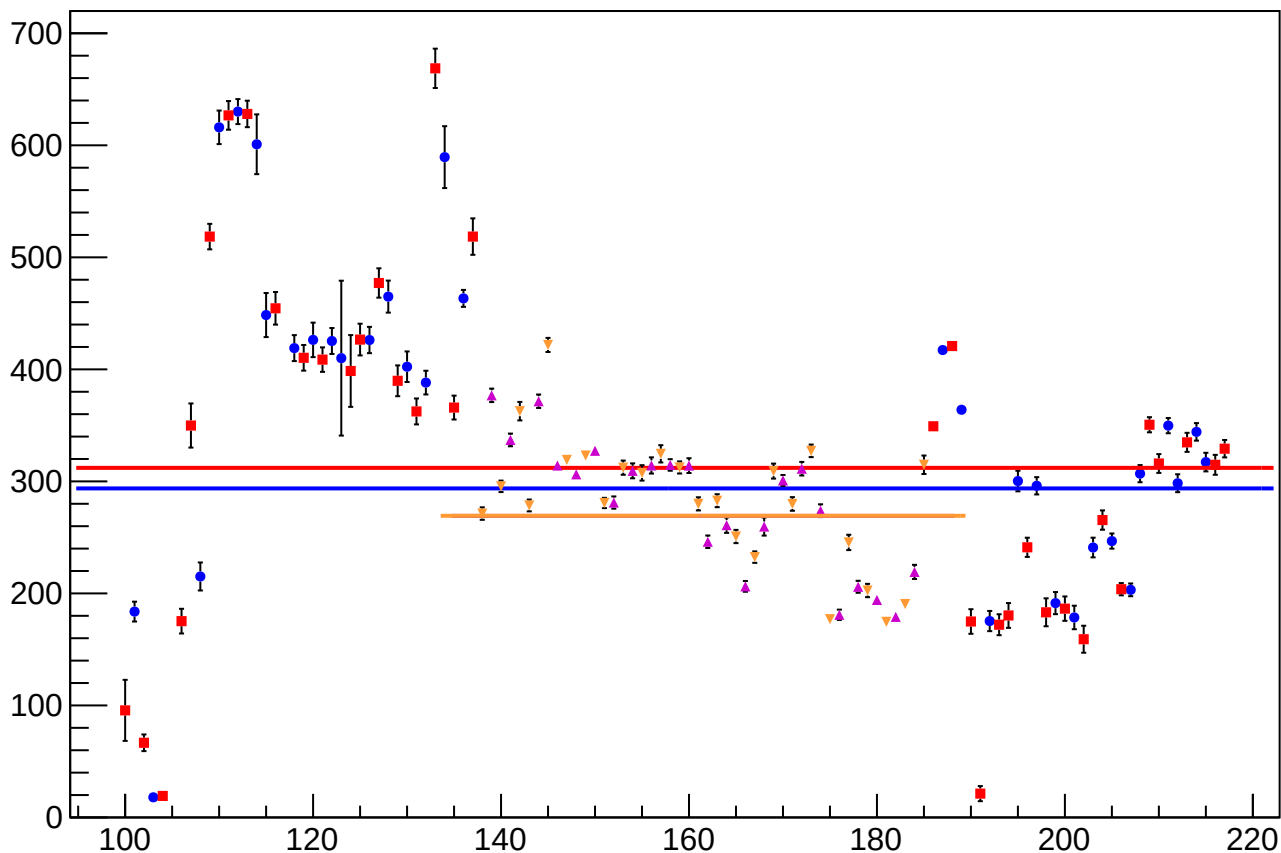
Right: 10.878 ± 0.868 $\chi^2/\text{NDF}: 1273.8/67$

In: 3.054 ± 0.703 $\chi^2/\text{NDF}: 1353.6/54$

Out: 3.779 ± 0.665 $\chi^2/\text{NDF}: 1572.7/60$

All: 3.437 ± 0.483 $\chi^2/\text{NDF}: 2926.8/115$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 293.722 $\pm$ 1.452 χ^2 /NDF: 9645.1/31

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 312.082 $\pm$ 1.214 χ^2 /NDF: 14408.7/35

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

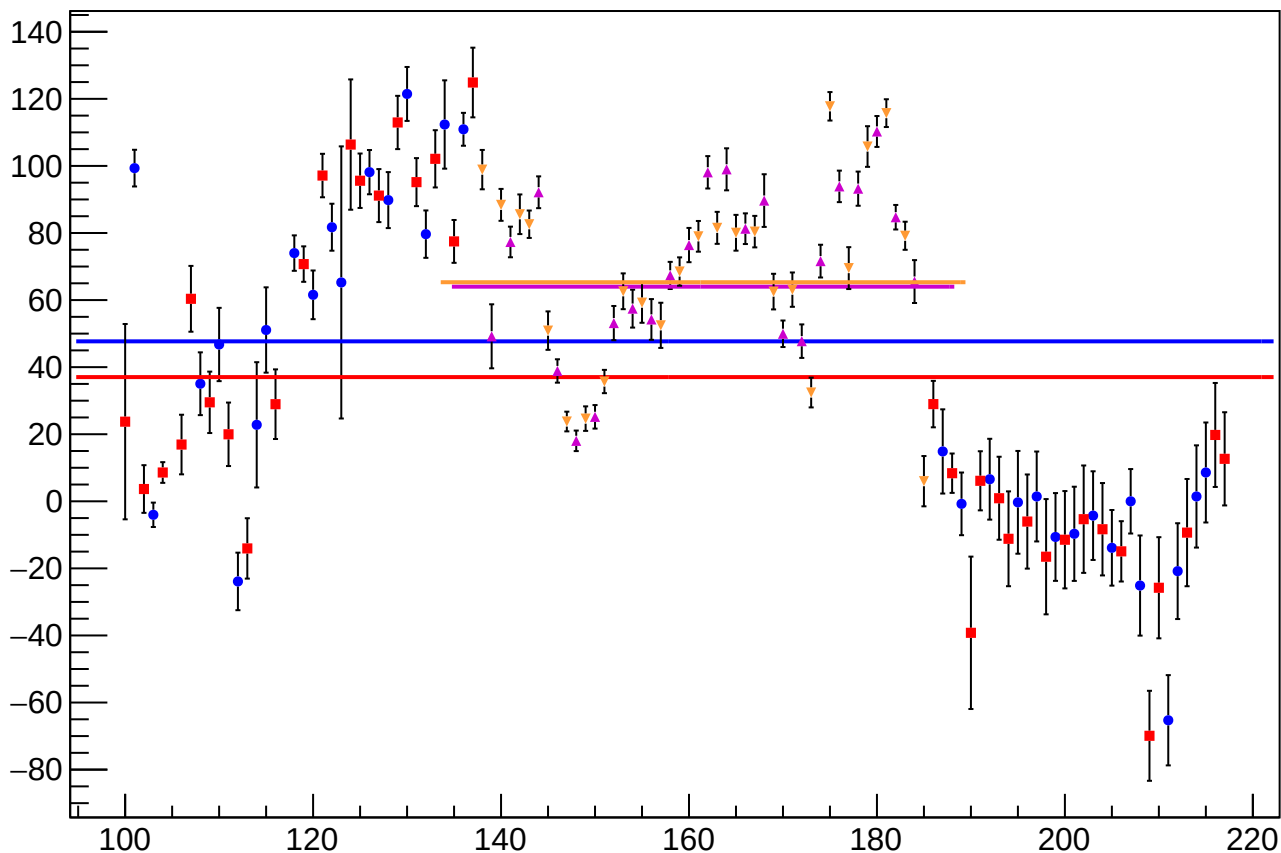
Right: 304.527 $\pm$ 0.931 χ^2 /NDF: 24147.9/67

In: 278.039 $\pm$ 0.872 χ^2 /NDF:12997.8/54

Out: 288.141 $\pm$ 0.806 χ^2 /NDF:18250.7/60

All: 283.487 $\pm$ 0.592 χ^2 /NDF: 31320.9/115

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.694+/-1.506 χ^2/NDF : 1102.6/31

Left Out: 65.323+/-0.935 χ^2/NDF :1007.1/24

Right Out: 37.035+/-1.408 χ^2/NDF : 964.1/35

Left In: 63.999+/-0.963 χ^2/NDF :799.5/22

Left: 64.681+/-0.671 χ^2/NDF : 1807.5/47

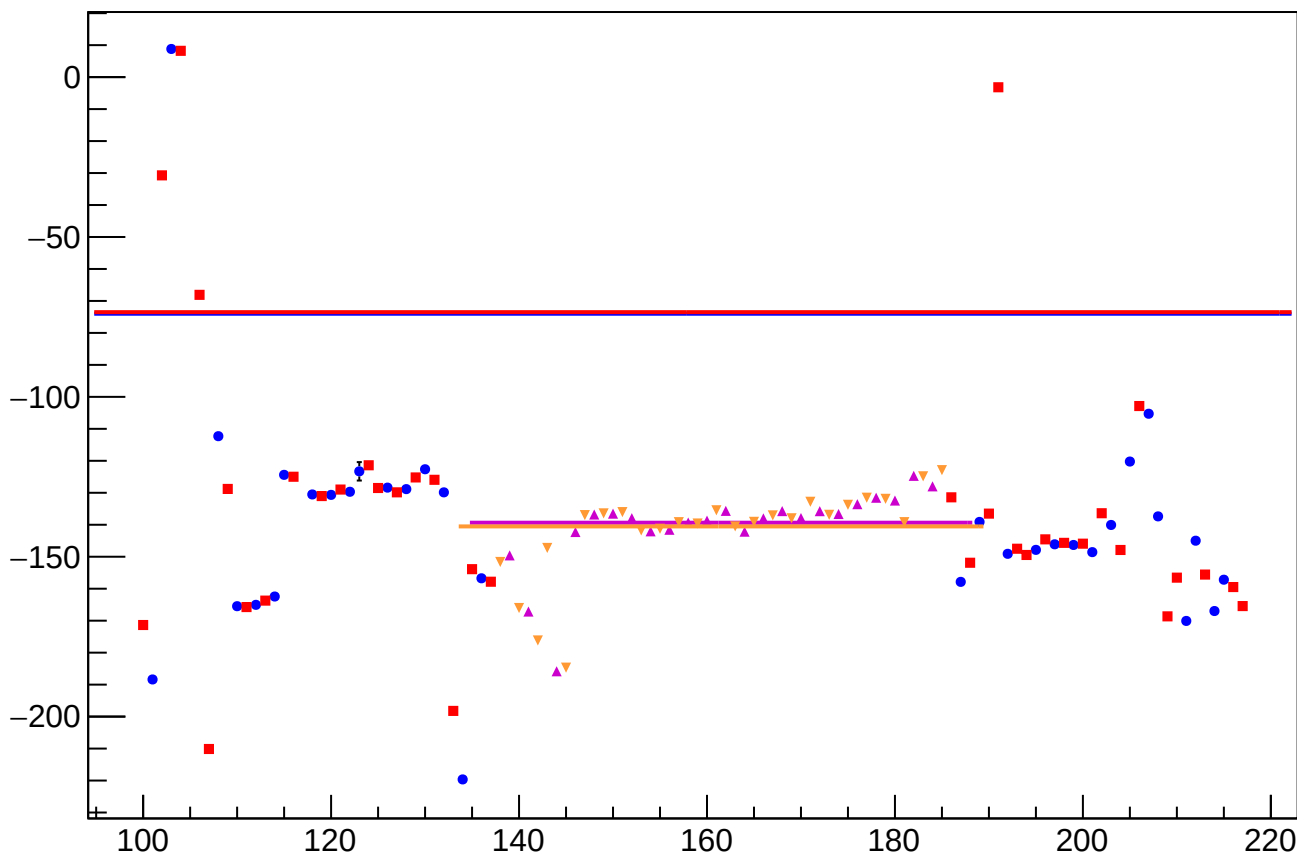
Right: 42.008+/-1.029 χ^2/NDF : 2093.4/67

In: 59.268+/-0.811 χ^2/NDF :1985.3/54

Out: 56.673+/-0.779 χ^2/NDF :2251.3/60

All: 57.918+/-0.562 χ^2/NDF : 4241.9/115

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -73.999 ± 0.062 $\chi^2/\text{NDF}: 1609377.3/31$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.508 ± 0.060 $\chi^2/\text{NDF}: 1458157.4/35$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

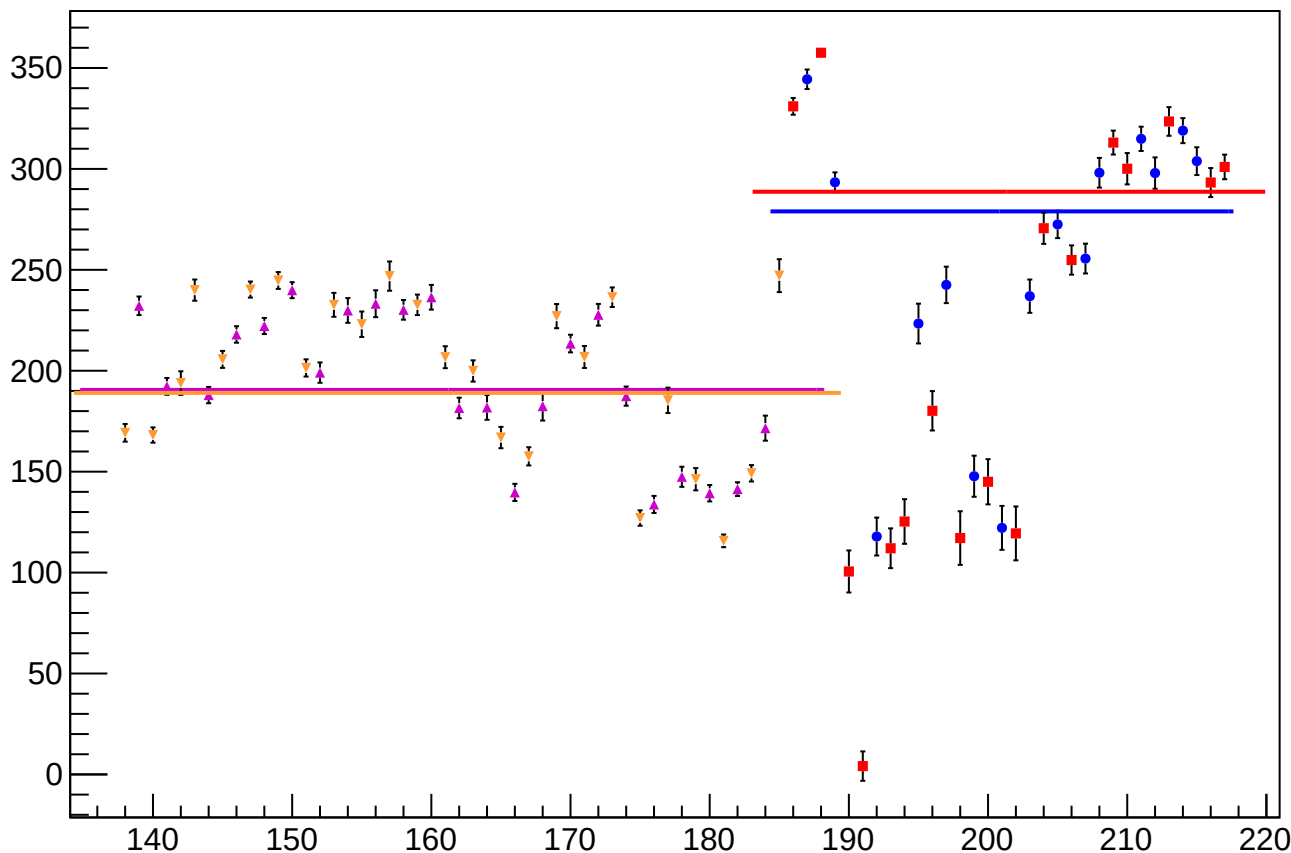
Right: -73.747 ± 0.043 $\chi^2/\text{NDF}: 3067567.5/67$

In: -116.576 ± 0.036 $\chi^2/\text{NDF}: 2406886.3/54$

Out: -116.642 ± 0.036 $\chi^2/\text{NDF}: 2341692.5/60$

All: -116.610 ± 0.025 $\chi^2/\text{NDF}: 4748580.5/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 278.951 $\pm$ 1.824 χ^2 /NDF: 1047.4/14

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 288.690 $\pm$ 1.507 χ^2 /NDF: 3945.1/16

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

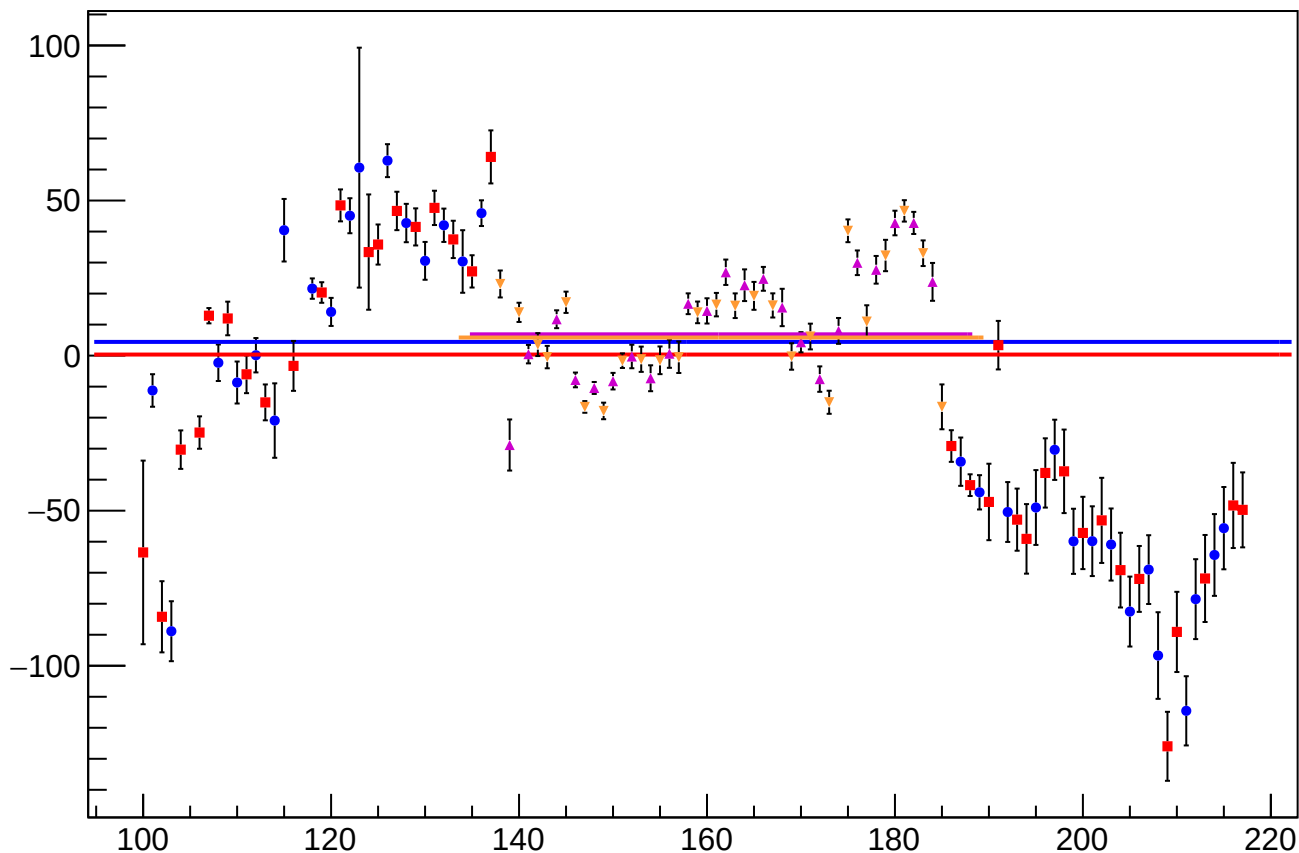
Right: 284.739 $\pm$ 1.162 χ^2 /NDF: 5009.4/31

In: 210.170 $\pm$ 0.860 χ^2 /NDF:4289.3/37

Out: 217.630 $\pm$ 0.807 χ^2 /NDF:9045.5/41

All: 214.136 $\pm$ 0.589 χ^2 /NDF: 13374.8/79

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.421+/-1.231 χ^2/NDF : 1170.8/31

Left Out: 5.834+/-0.712 χ^2/NDF : 652.2/24

Right Out: 0.341+/-1.056 χ^2/NDF : 1220.0/35

Left In: 6.862+/-0.736 χ^2/NDF : 522.7/22

Left: 6.331+/-0.512 χ^2/NDF : 1176.0/47

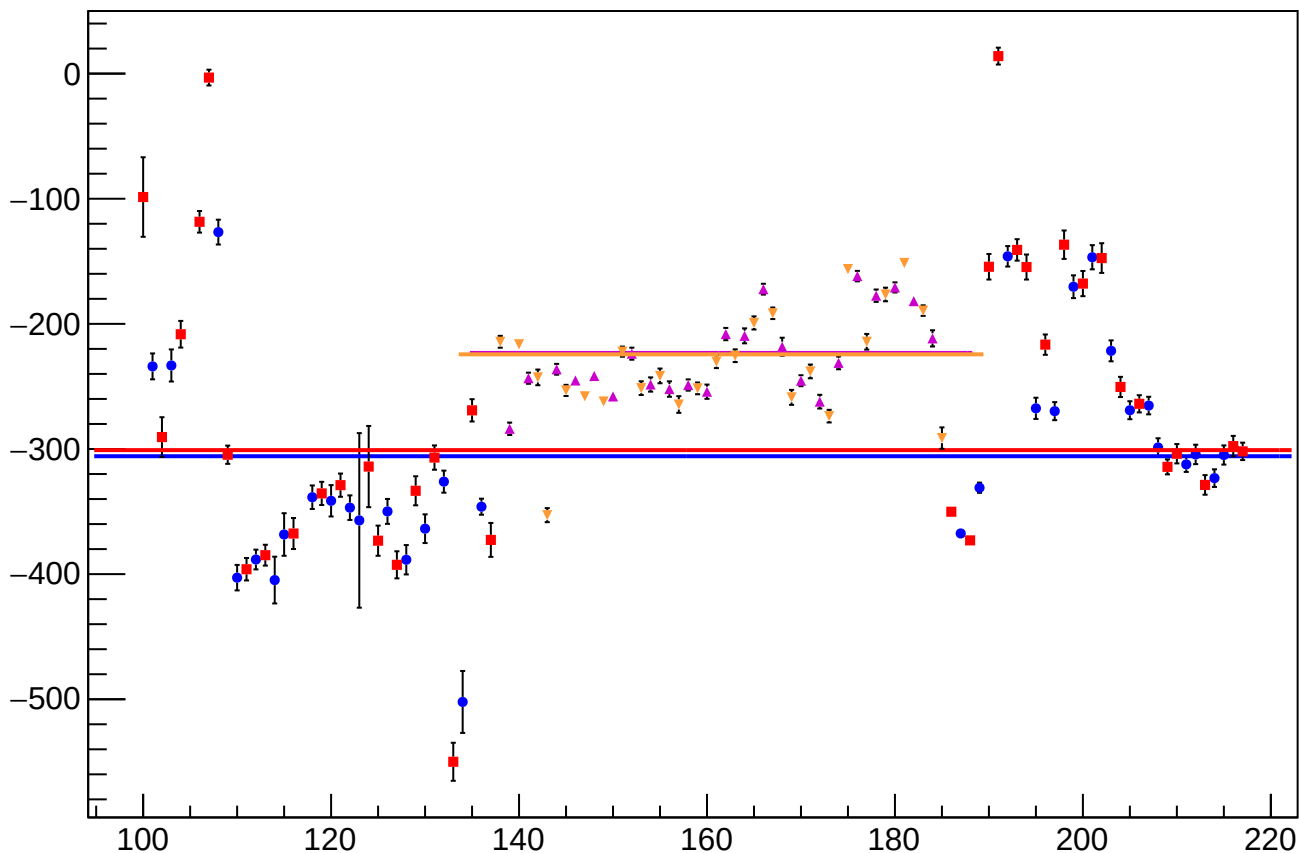
Right: 2.071+/-0.802 χ^2/NDF : 2397.1/67

In: 6.219+/-0.632 χ^2/NDF : 1696.4/54

Out: 4.116+/-0.591 χ^2/NDF : 1890.8/60

All: 5.097+/-0.431 χ^2/NDF : 3593.2/115

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.782+/-1.417 χ^2/NDF : 2257.0/31

Left Out: -224.364+/-0.956 χ^2/NDF : 2103.2/24

Right Out: -300.909+/-1.154 χ^2/NDF : 8677.8/35

Left In: -223.223+/-0.969 χ^2/NDF : 1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

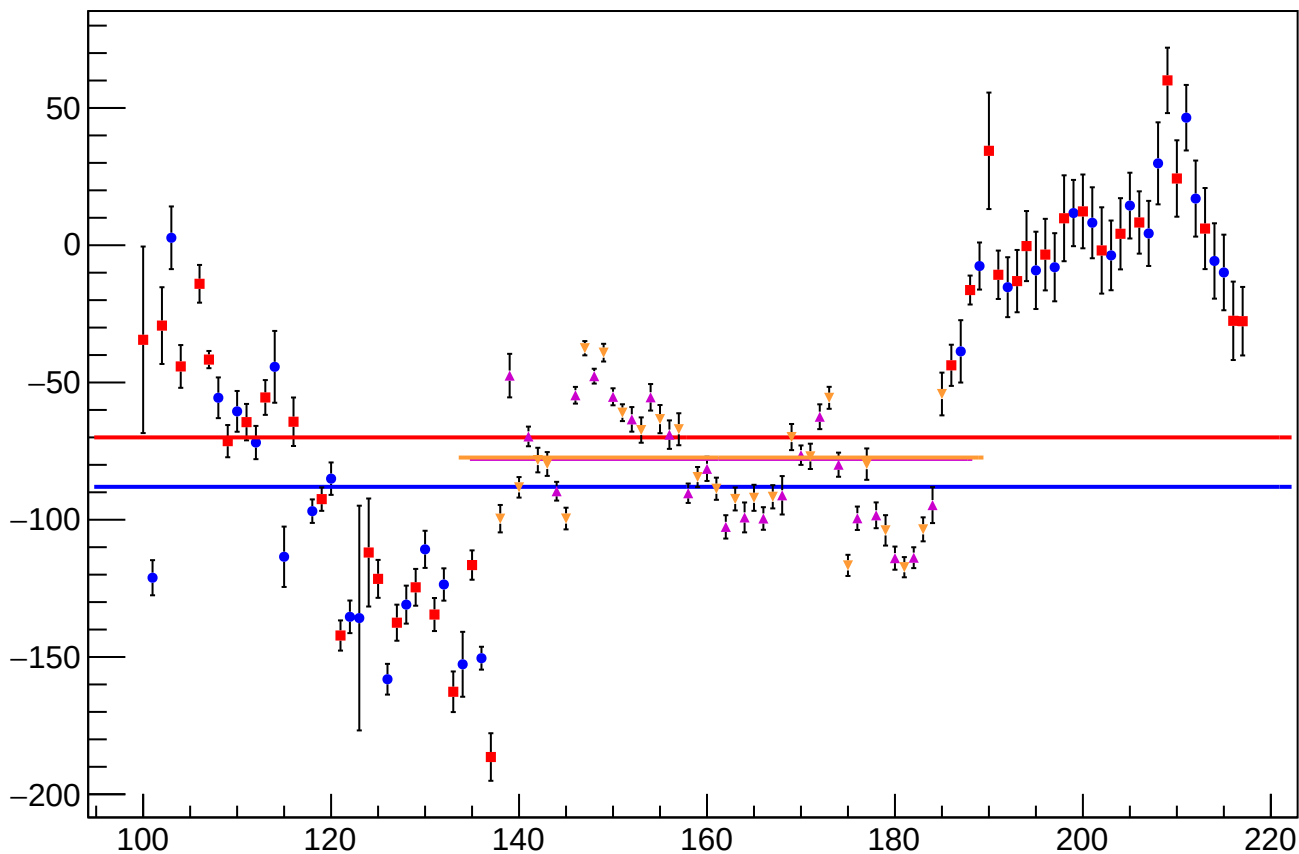
Right: -302.852+/-0.895 χ^2/NDF : 10941.8/67

In: -249.525+/-0.800 χ^2/NDF : 5838.0/54

Out: -255.507+/-0.736 χ^2/NDF : 13389.2/60

All: -252.764+/-0.542 χ^2/NDF : 19257.5/115

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.012 ± 1.426 $\chi^2/\text{NDF}: 1553.8/31$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -70.001 ± 1.260 $\chi^2/\text{NDF}: 1776.0/35$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

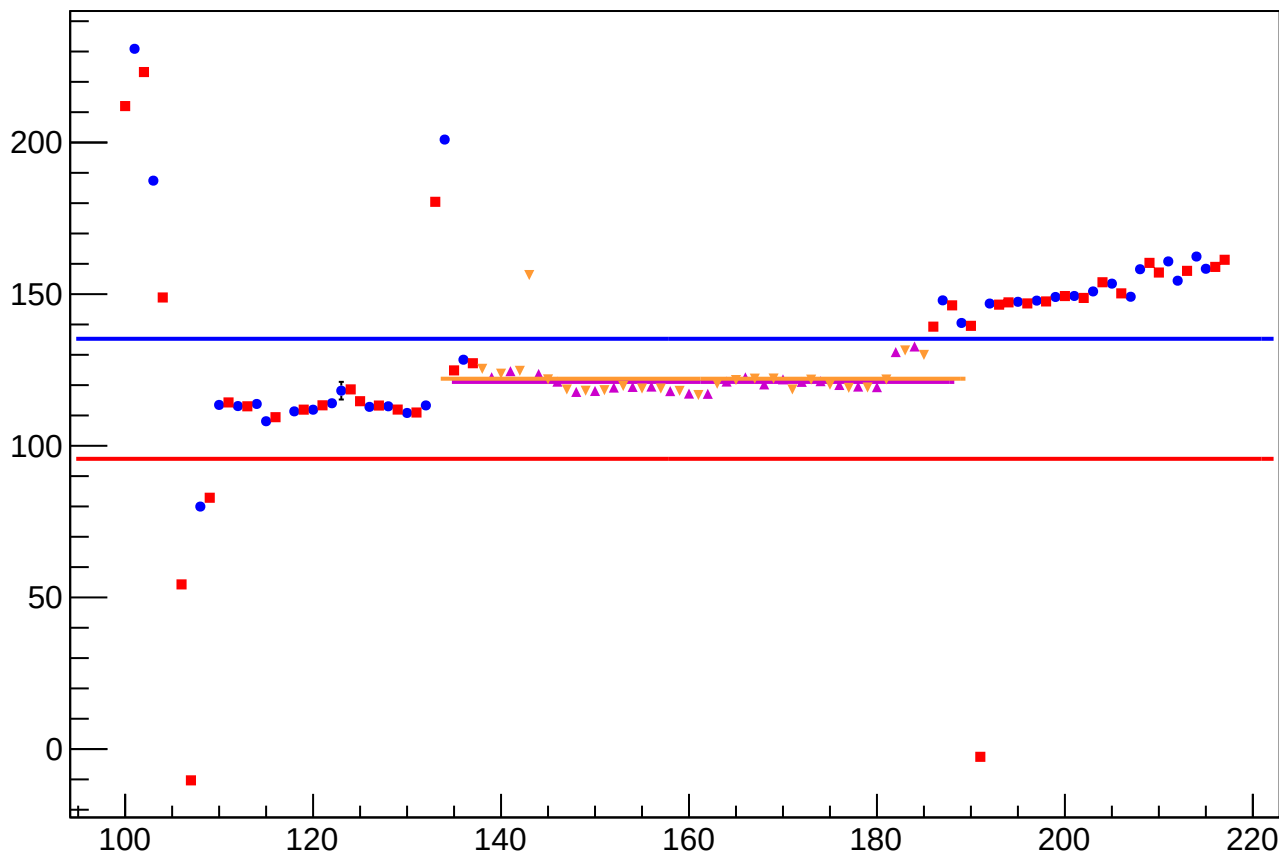
Right: -77.900 ± 0.944 $\chi^2/\text{NDF}: 3419.4/67$

In: -80.500 ± 0.729 $\chi^2/\text{NDF}: 2214.2/54$

Out: -75.134 ± 0.691 $\chi^2/\text{NDF}: 2646.0/60$

All: -77.673 ± 0.502 $\chi^2/\text{NDF}: 4888.7/115$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.282 $\pm$ 0.072 χ^2 /NDF: 211762.4/31

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 95.705 $\pm$ 0.061 χ^2 /NDF: 1175412.5/35

Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47

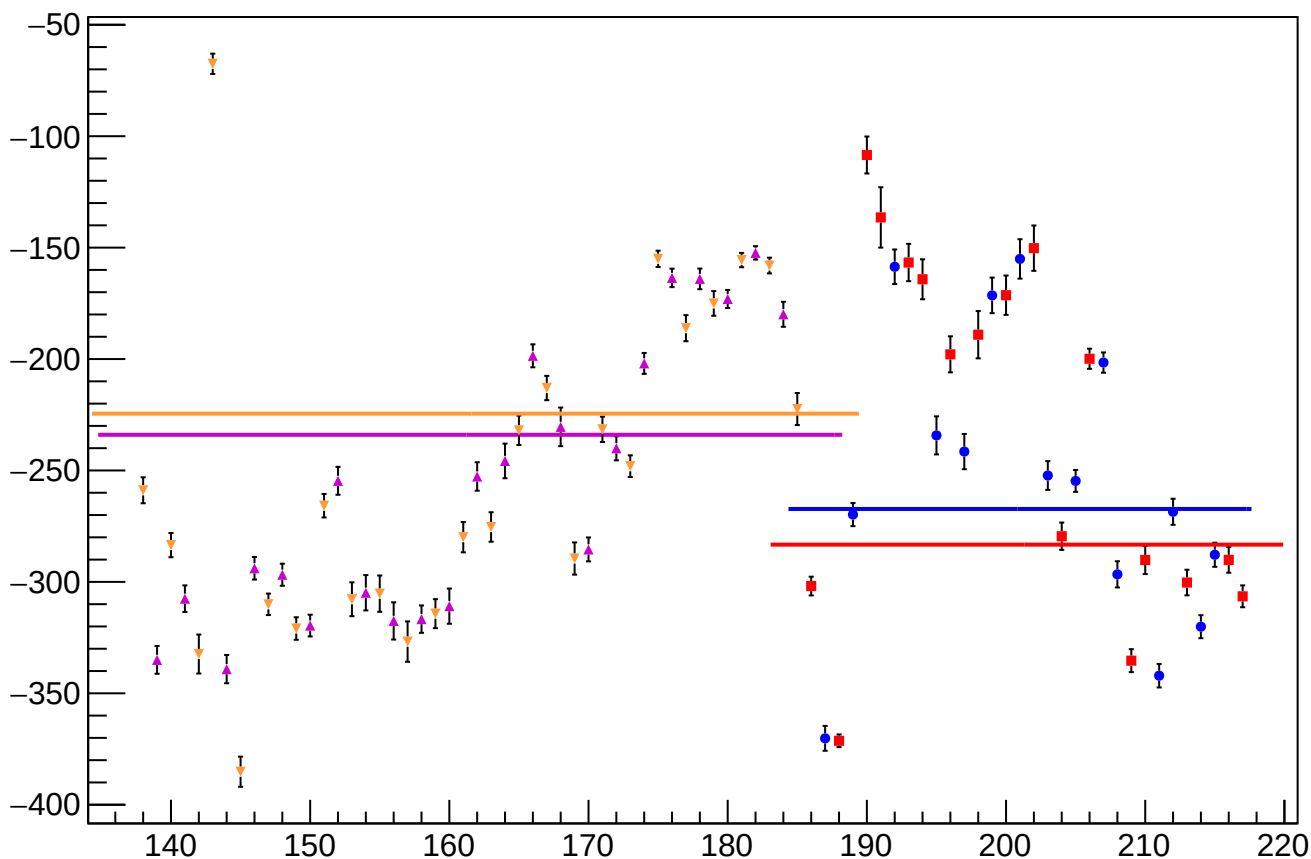
Right: 112.228 $\pm$ 0.047 χ^2 /NDF: 1562446.3/67

In: 124.366 $\pm$ 0.035 χ^2 /NDF:249528.3/54

Out: 114.355 $\pm$ 0.033 χ^2 /NDF:1337923.3/60

All: 119.112 $\pm$ 0.024 χ^2 /NDF: 1630872.8/115

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -267.278+/-1.537 χ^2/NDF : 1432.1/14

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -283.282+/-1.396 χ^2/NDF : 2939.1/16

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

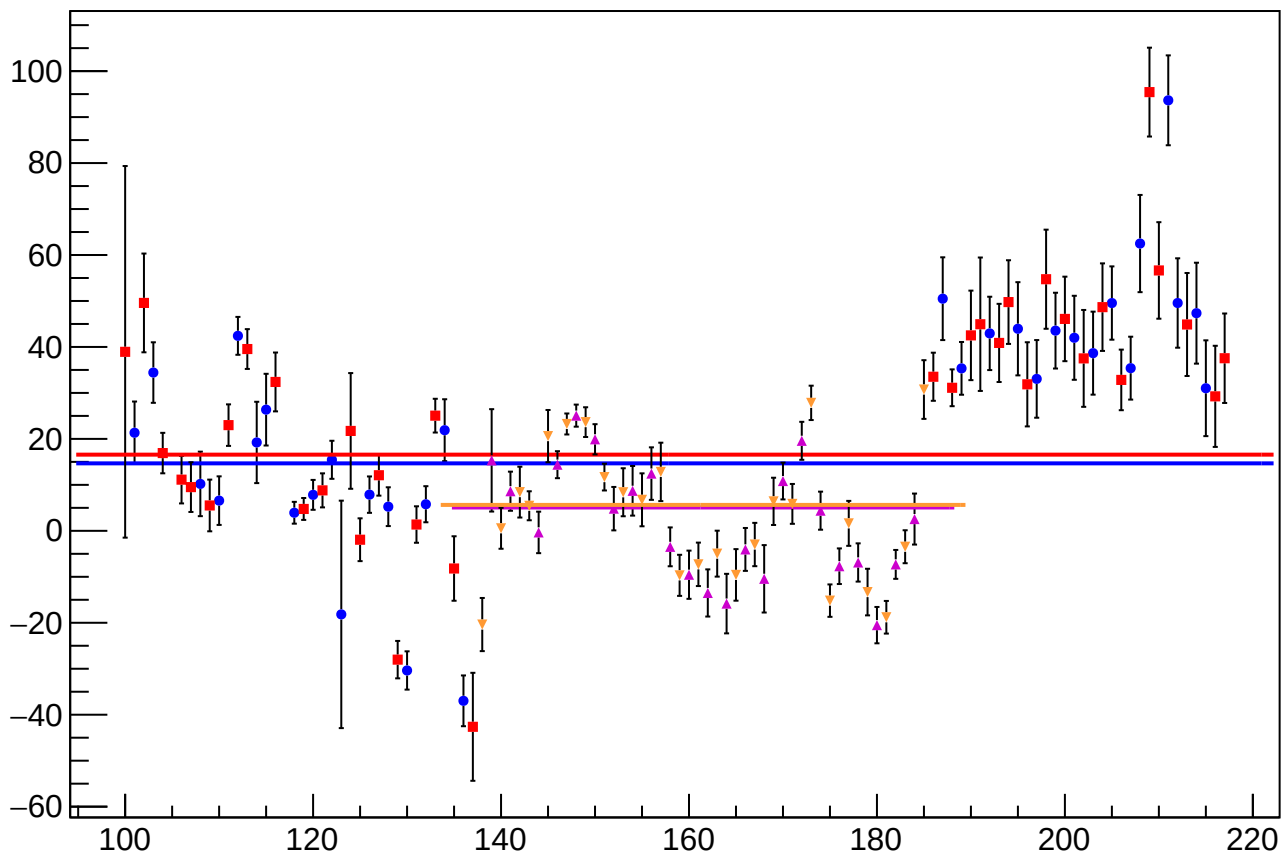
Right: -276.048+/-1.033 χ^2/NDF : 4430.6/31

In: -245.382+/-0.899 χ^2/NDF : 5279.2/37

Out: -246.492+/-0.854 χ^2/NDF : 8919.9/41

All: -245.966+/-0.619 χ^2/NDF : 14199.8/79

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.678 $\pm$ 0.988 χ^2 /NDF: 527.0/31

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.572 $\pm$ 0.940 χ^2 /NDF: 473.3/35

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

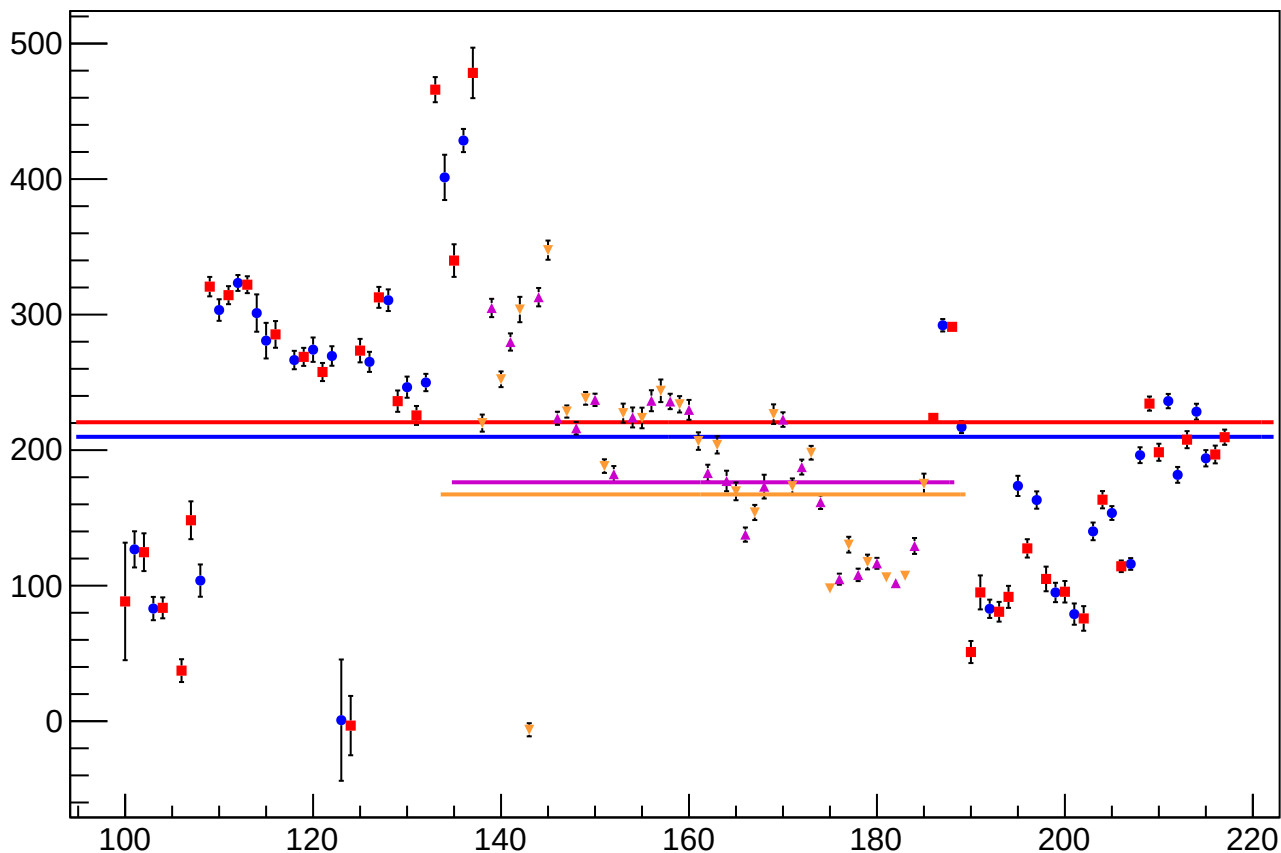
Right: 15.672 $\pm$ 0.681 χ^2 /NDF: 1002.2/67

In: 9.264 $\pm$ 0.652 χ^2 /NDF:819.9/54

Out: 10.413 $\pm$ 0.621 χ^2 /NDF:863.1/60

All: 9.867 $\pm$ 0.450 χ^2 /NDF: 1684.6/115

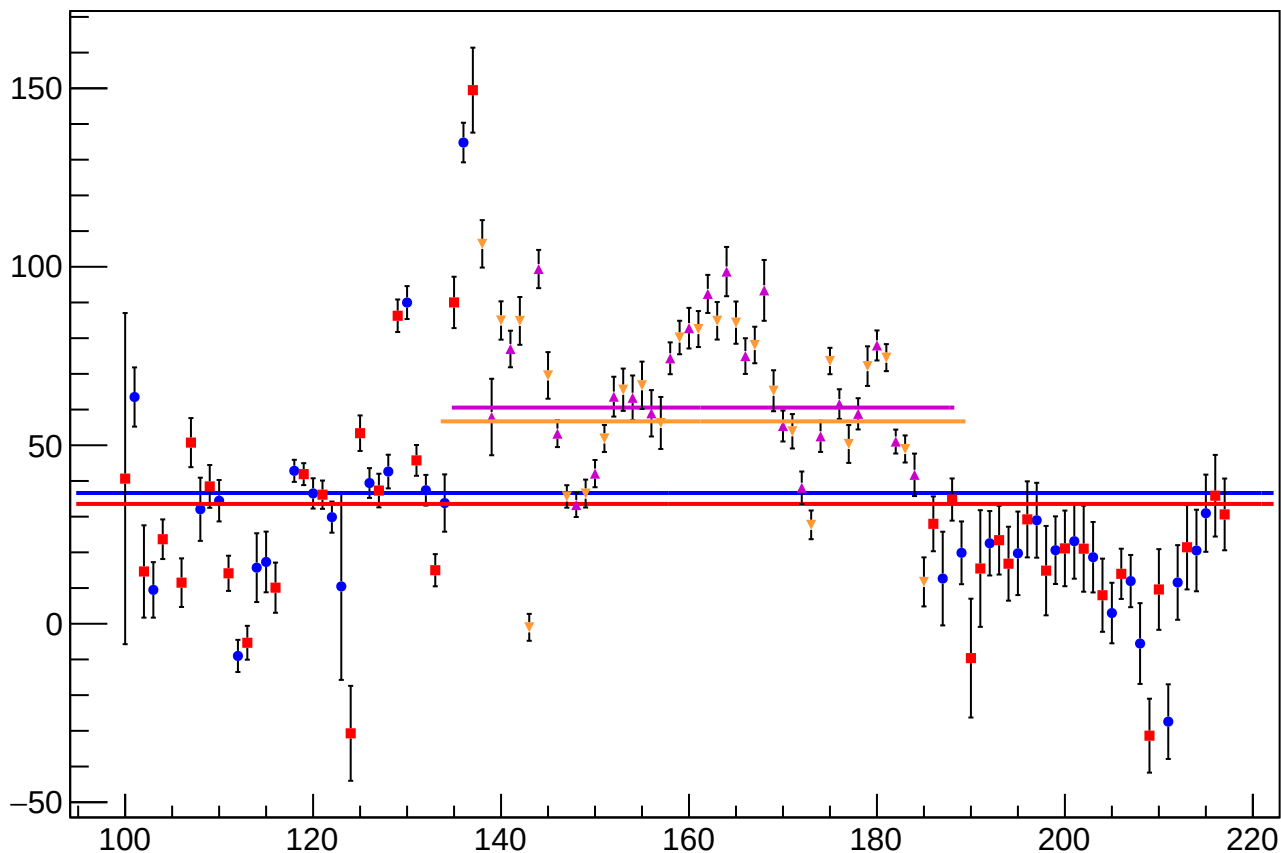
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.822 $\pm$ 1.201 χ^2 /NDF: 4260.8/31
 Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24
 Right Out: 220.580 $\pm$ 1.072 χ^2 /NDF: 6613.7/35
 Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47
 Right: 215.812 $\pm$ 0.800 χ^2 /NDF: 10919.2/67
 In: 191.661 $\pm$ 0.814 χ^2 /NDF:7852.6/54
 Out: 194.223 $\pm$ 0.762 χ^2 /NDF:12290.5/60
 All: 193.027 $\pm$ 0.556 χ^2 /NDF: 20148.4/115

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.629 $\pm$ 1.142 χ^2 /NDF: 698.9/31

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 33.566 $\pm$ 1.098 χ^2 /NDF: 555.6/35

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF: 335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

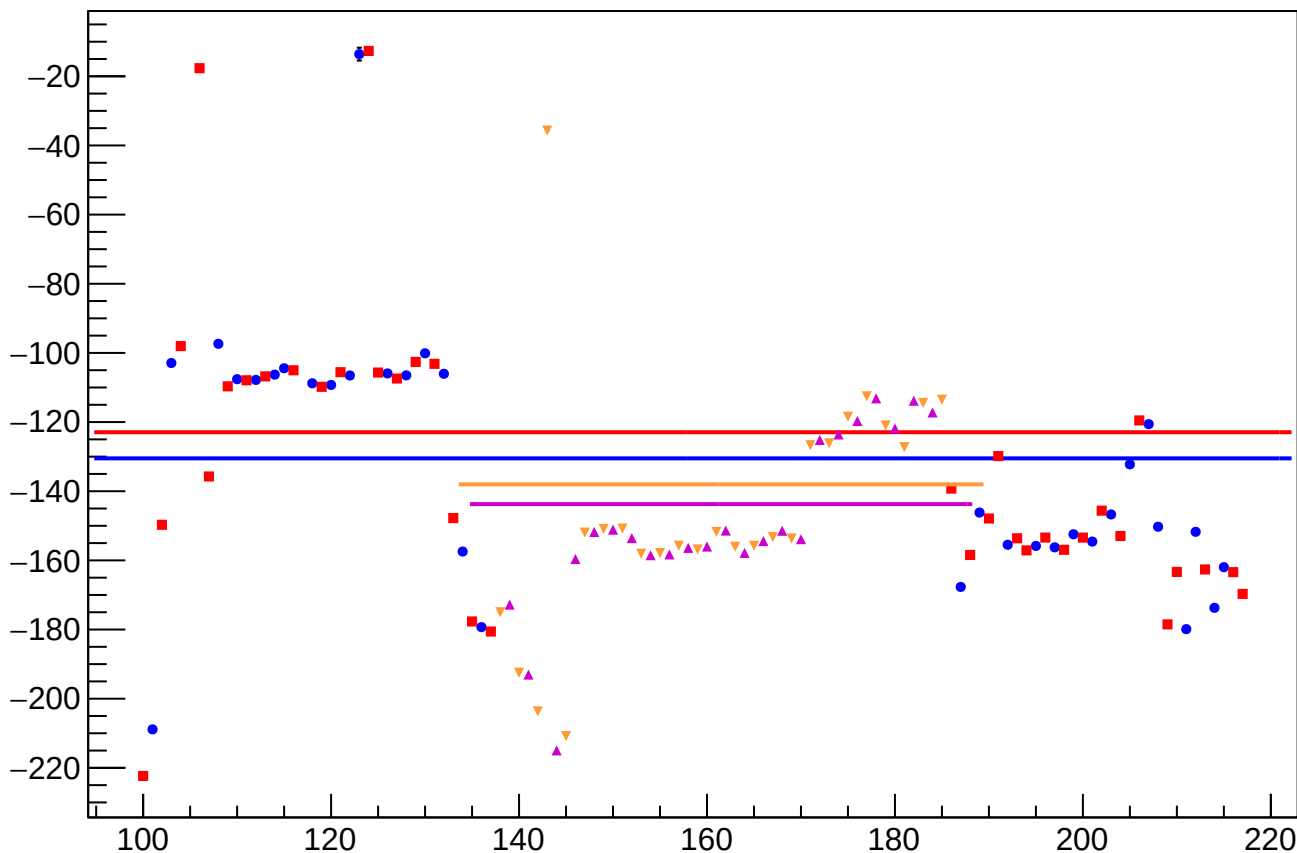
Right: 35.037 $\pm$ 0.792 χ^2 /NDF: 1258.3/67

In: 50.290 $\pm$ 0.748 χ^2 /NDF: 1285.0/54

Out: 46.774 $\pm$ 0.719 χ^2 /NDF: 1499.4/60

All: 48.463 $\pm$ 0.519 χ^2 /NDF: 2795.9/115

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.496+/-0.061 χ^2/NDF : 229377.0/31

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -122.939+/-0.057 χ^2/NDF : 490752.3/35

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

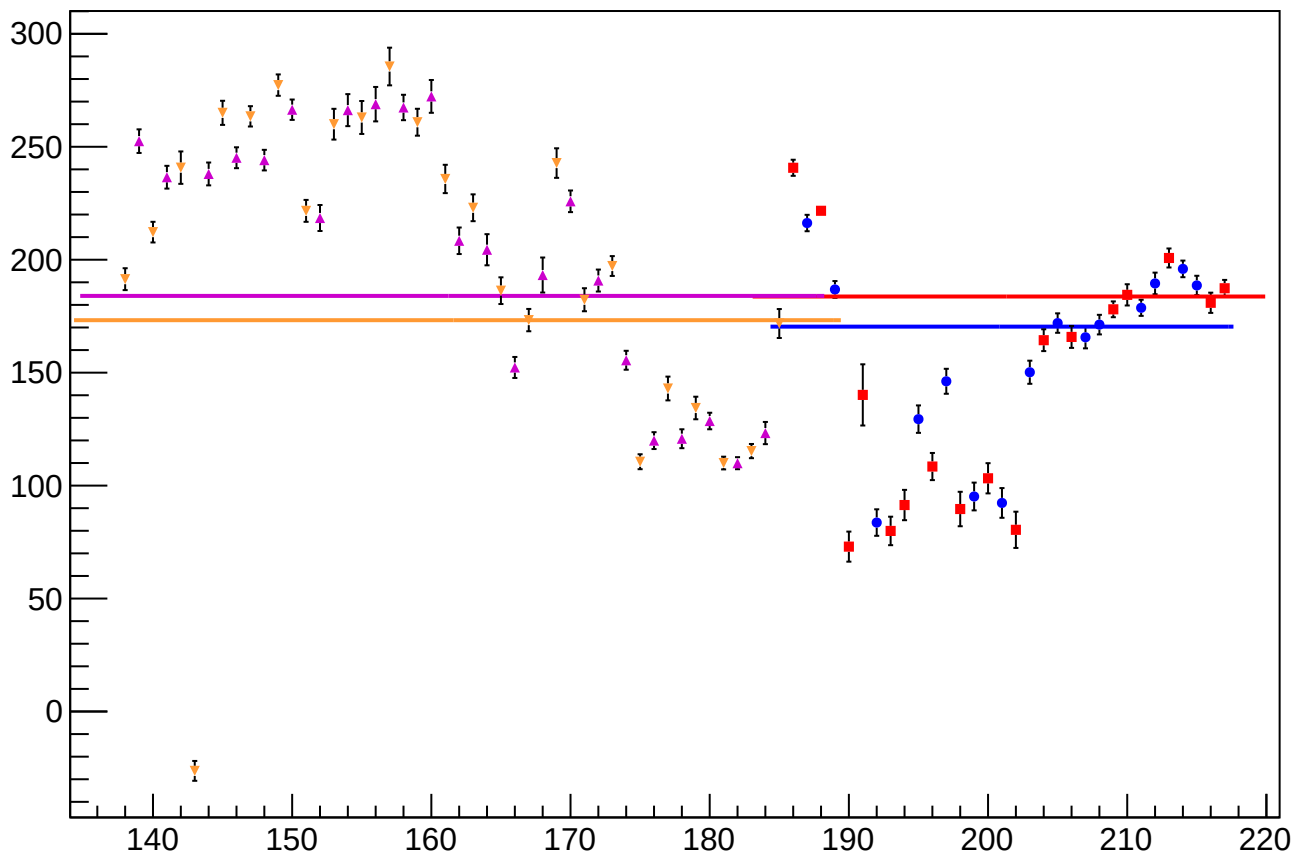
Right: -126.486+/-0.042 χ^2/NDF : 728320.9/67

In: -138.904+/-0.037 χ^2/NDF : 517884.4/54

Out: -132.228+/-0.035 χ^2/NDF : 1099293.0/60

All: -135.445+/-0.026 χ^2/NDF : 1634287.0/111

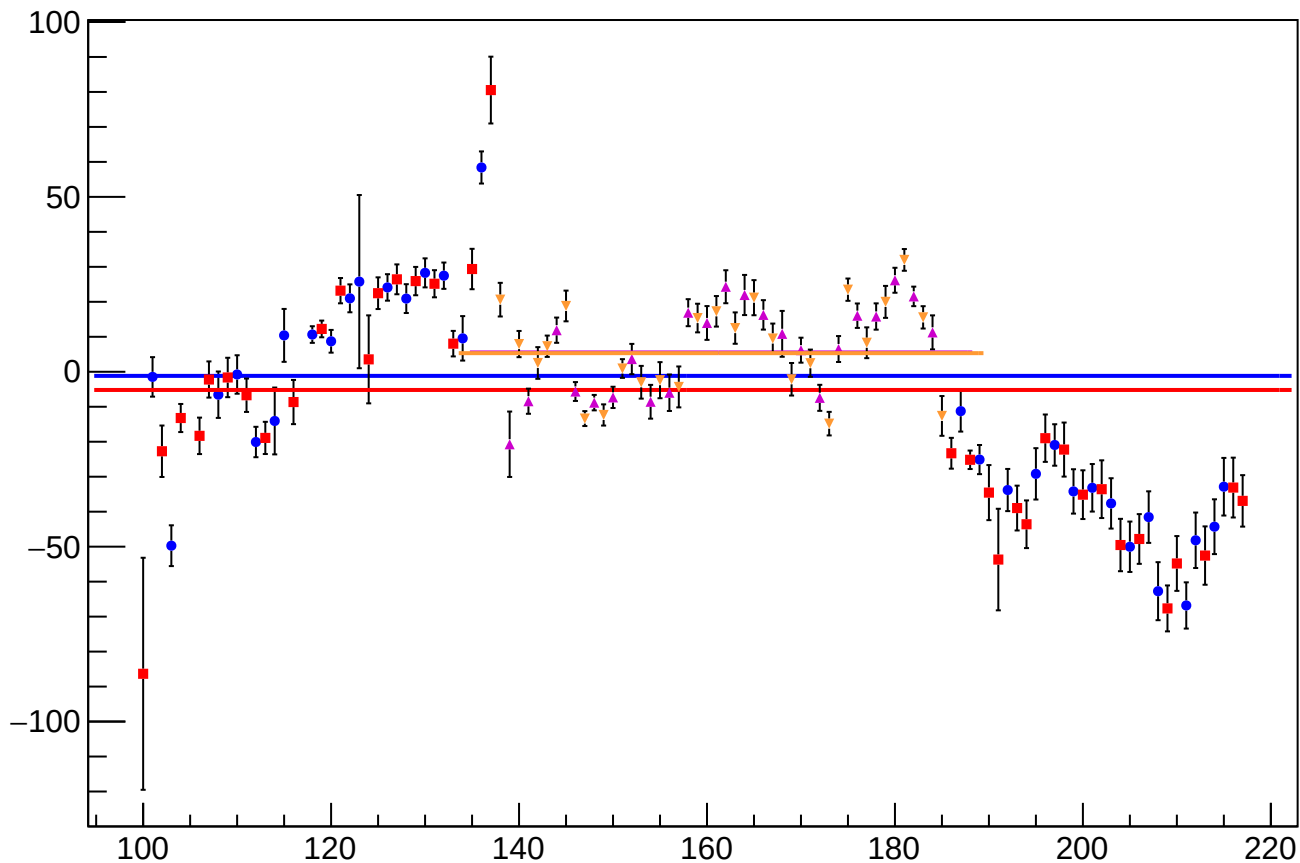
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 170.378 ± 1.175 $\chi^2/\text{NDF}: 857.1/14$
 Left Out: 173.229 ± 0.966 $\chi^2/\text{NDF}: 5846.0/24$
 Right Out: 183.713 ± 1.044 $\chi^2/\text{NDF}: 2087.8/16$
 Left In: 183.984 ± 0.991 $\chi^2/\text{NDF}: 3613.7/22$

Left: 178.467 ± 0.692 $\chi^2/\text{NDF}: 9520.1/47$
 Right: 177.827 ± 0.781 $\chi^2/\text{NDF}: 3016.8/31$
 In: 178.329 ± 0.758 $\chi^2/\text{NDF}: 4549.1/37$
 Out: 178.060 ± 0.709 $\chi^2/\text{NDF}: 7988.1/41$
 All: 178.186 ± 0.518 $\chi^2/\text{NDF}: 12537.3/79$

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.173 ± 0.908 χ^2/NDF : 987.8/31

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.201 ± 0.855 χ^2/NDF : 950.5/35

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

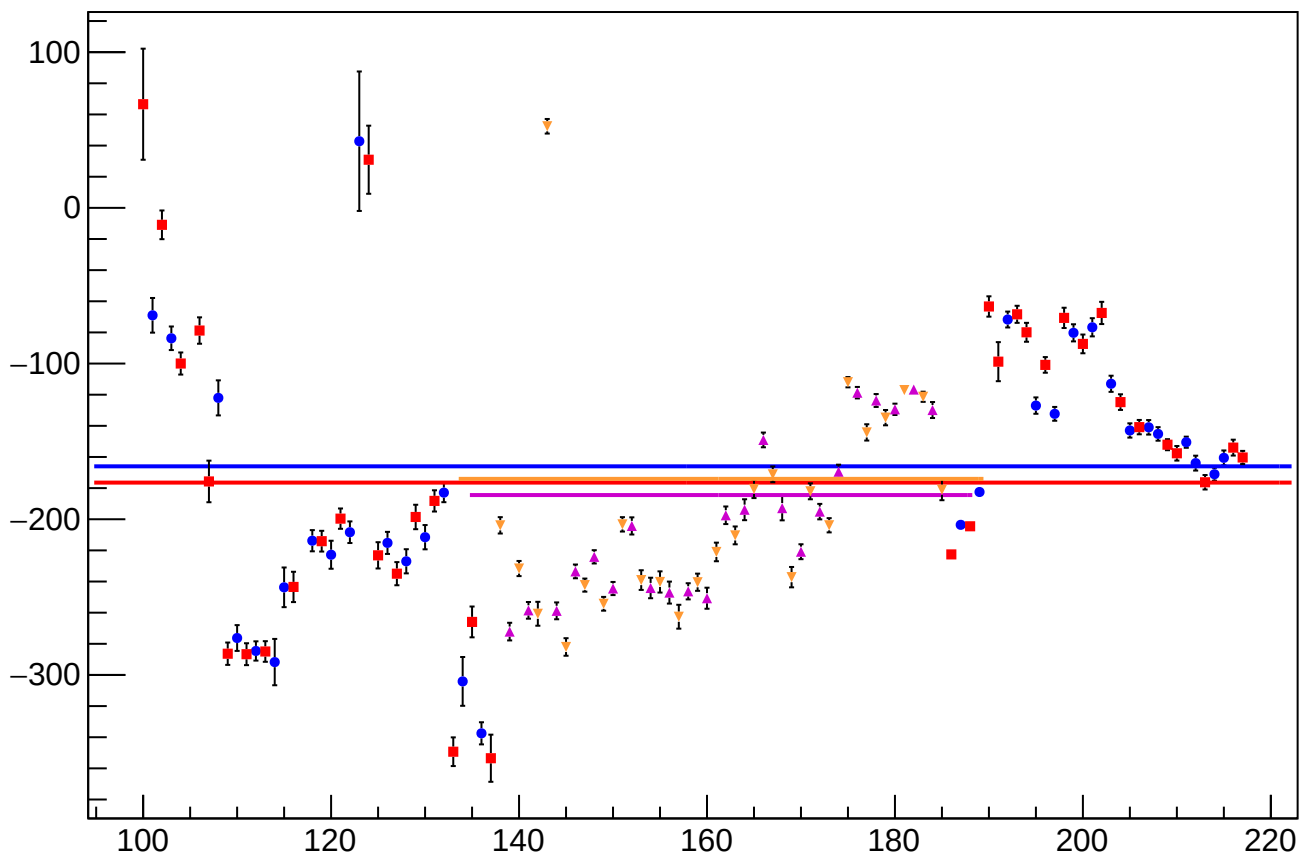
Right: -3.308 ± 0.622 χ^2/NDF : 1948.7/67

In: 2.678 ± 0.592 χ^2/NDF : 1275.4/54

Out: 0.765 ± 0.563 χ^2/NDF : 1381.9/60

All: 1.672 ± 0.408 χ^2/NDF : 2662.8/115

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -166.009 ± 0.974 χ^2/NDF : 3143.0/31

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -176.458 ± 0.848 χ^2/NDF : 5019.8/35

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

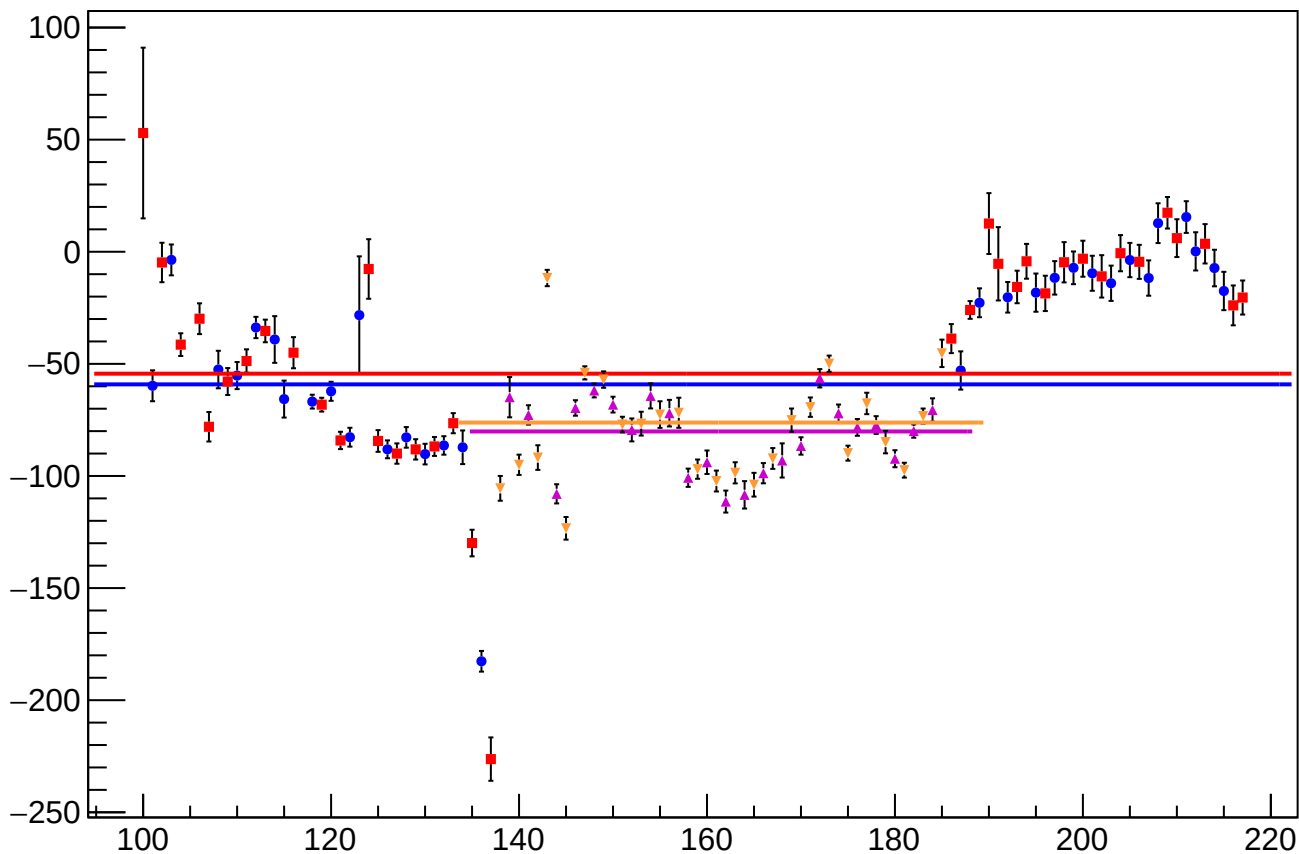
Right: -171.953 ± 0.640 χ^2/NDF : 8228.3/67

In: -175.078 ± 0.695 χ^2/NDF : 6370.9/54

Out: -175.420 ± 0.639 χ^2/NDF : 10466.5/60

All: -175.263 ± 0.470 χ^2/NDF : 16837.5/115

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -59.142 ± 1.053 χ^2/NDF : 1668.7/31

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -54.380 ± 1.009 χ^2/NDF : 1490.6/35

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

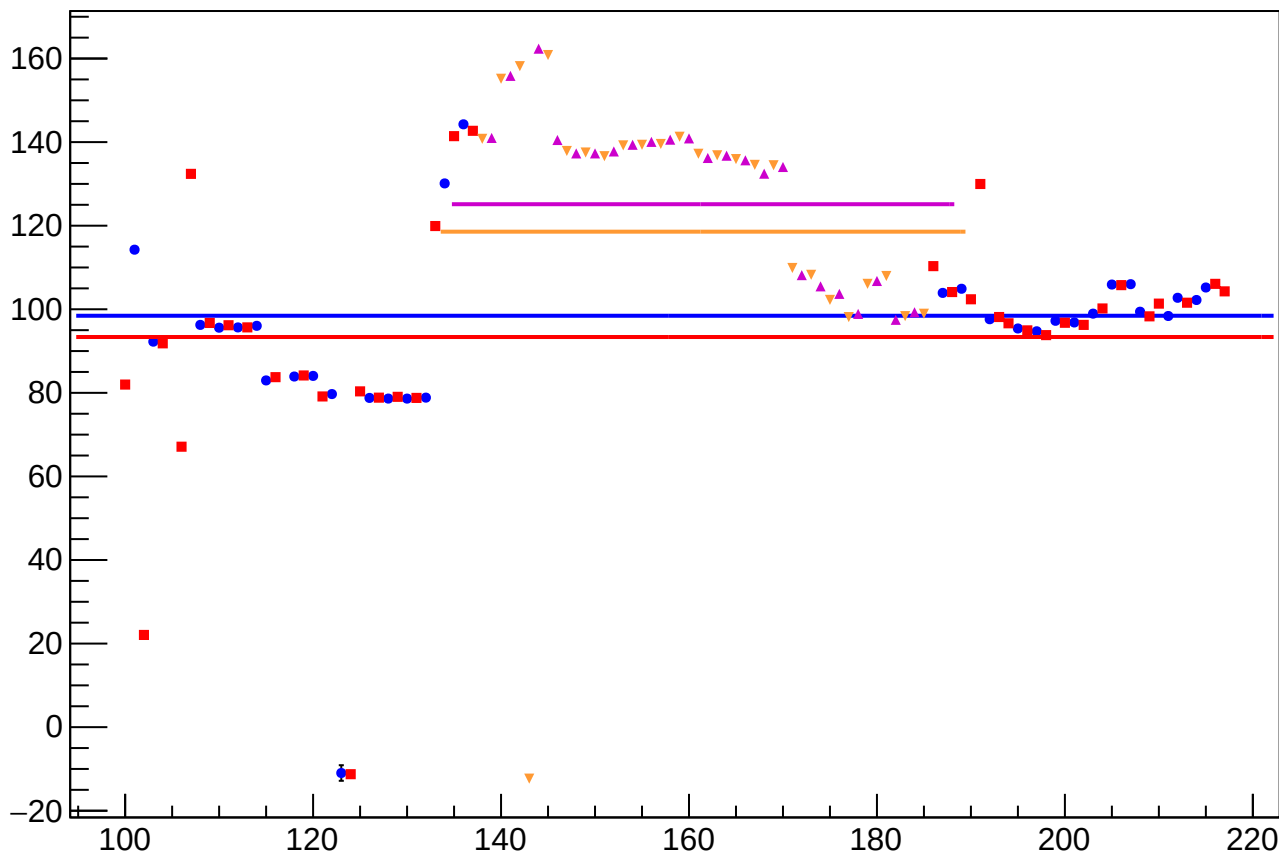
Right: -56.659 ± 0.728 χ^2/NDF : 3170.0/67

In: -71.406 ± 0.679 χ^2/NDF : 2184.4/54

Out: -67.041 ± 0.653 χ^2/NDF : 2562.8/60

All: -69.139 ± 0.471 χ^2/NDF : 4768.6/115

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.448 $\pm$ 0.053 χ^2 /NDF: 96529.7/31

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 93.361 $\pm$ 0.050 χ^2 /NDF: 245552.8/35

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

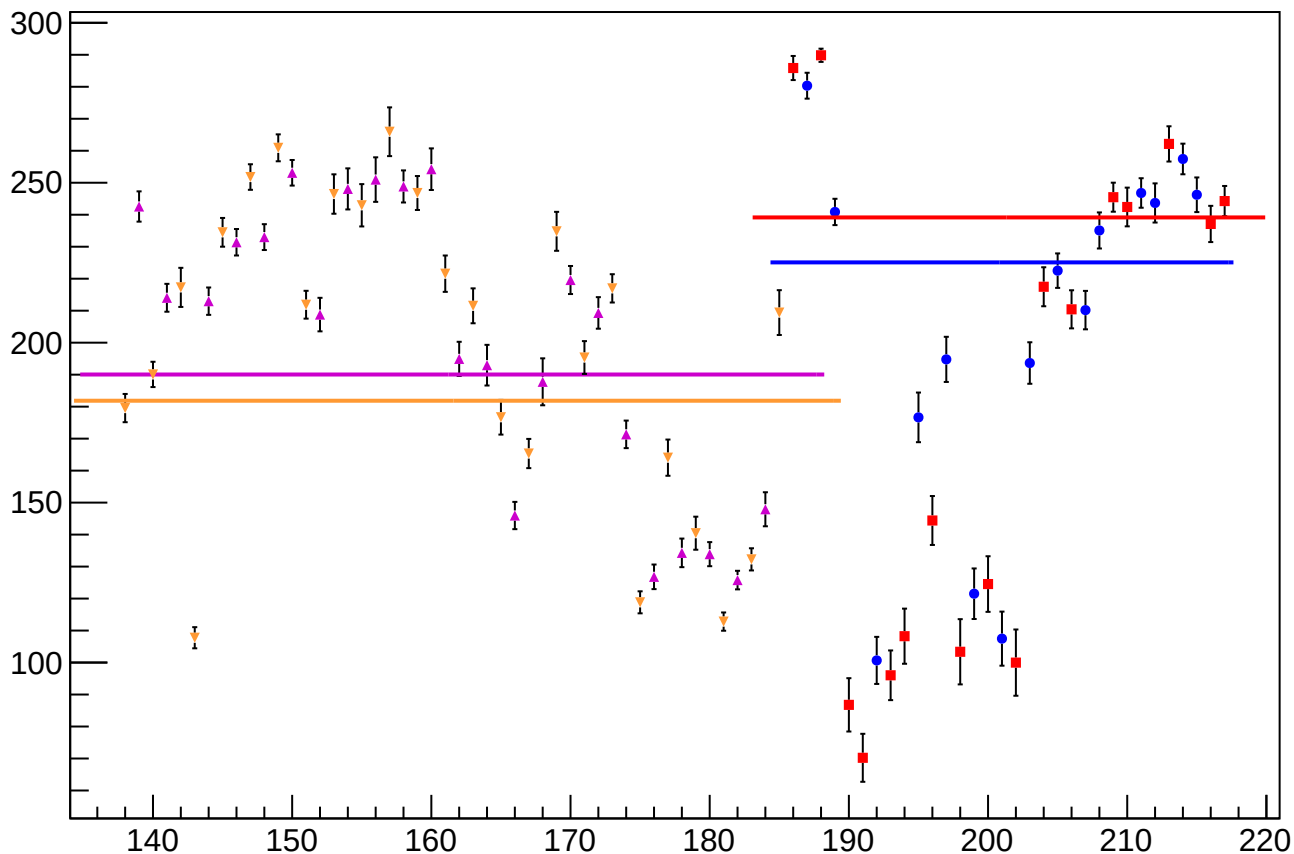
Right: 95.744 $\pm$ 0.036 χ^2 /NDF: 346996.8/67

In: 115.039 $\pm$ 0.033 χ^2 /NDF: 475641.8/54

Out: 108.506 $\pm$ 0.031 χ^2 /NDF: 1128952.6/60

All: 111.654 $\pm$ 0.023 χ^2 /NDF: 1625469.5/115

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.098 $\pm$ 1.452 χ^2 /NDF: 1035.0/14

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 239.153 $\pm$ 1.235 χ^2 /NDF: 2908.6/16

Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47

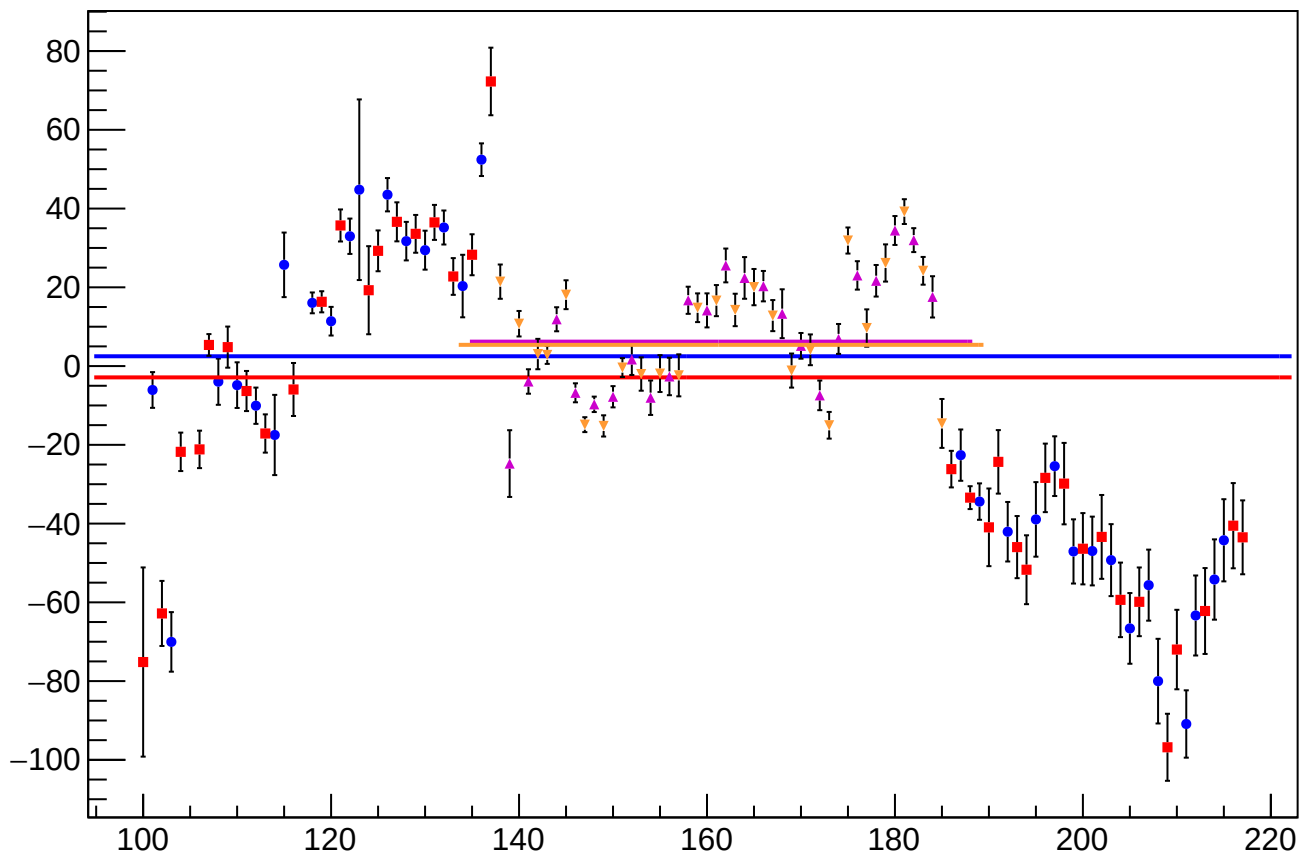
Right: 233.255 $\pm$ 0.941 χ^2 /NDF: 3998.0/31

In: 200.595 $\pm$ 0.797 χ^2 /NDF:3880.6/37

Out: 202.113 $\pm$ 0.734 χ^2 /NDF:7603.8/41

All: 201.415 $\pm$ 0.540 χ^2 /NDF: 11486.3/79

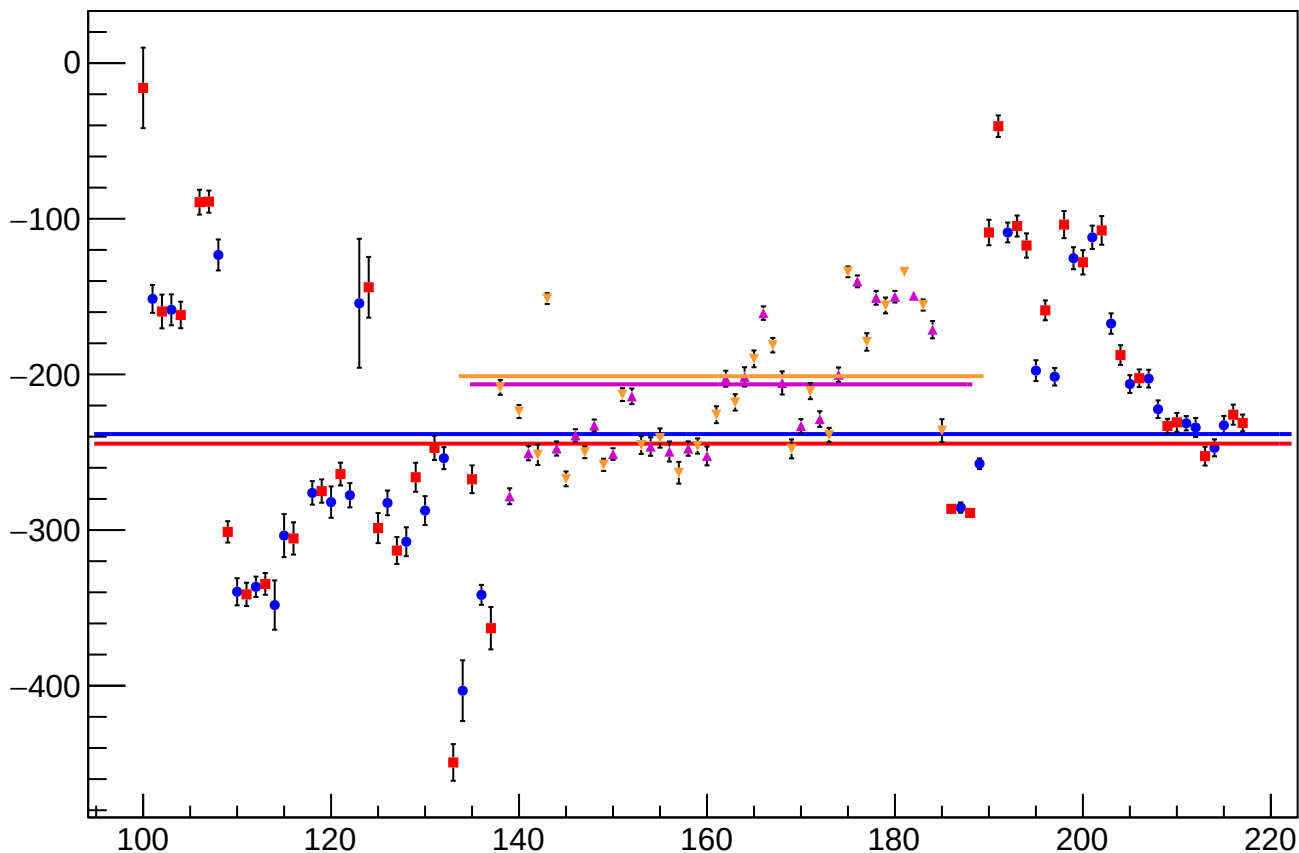
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.489 ± 1.018 $\chi^2/\text{NDF}: 1185.2/31$
 Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$
 Right Out: -2.873 ± 0.917 $\chi^2/\text{NDF}: 1217.0/35$
 Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$
 Right: -0.471 ± 0.681 $\chi^2/\text{NDF}: 2417.5/67$
 In: 4.940 ± 0.594 $\chi^2/\text{NDF}: 1601.5/54$
 Out: 2.416 ± 0.550 $\chi^2/\text{NDF}: 1795.5/60$
 All: 3.582 ± 0.404 $\chi^2/\text{NDF}: 3406.8/115$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.328+/-1.154 χ^2 /NDF: 2707.0/31

Left Out: -201.144+/-0.918 χ^2 /NDF:2488.8/24

Right Out: -244.481+/-0.965 χ^2 /NDF: 5851.8/35

Left In: -206.379+/-0.950 χ^2 /NDF:2111.6/22

Left: -203.672+/-0.660 χ^2 /NDF: 4616.1/47

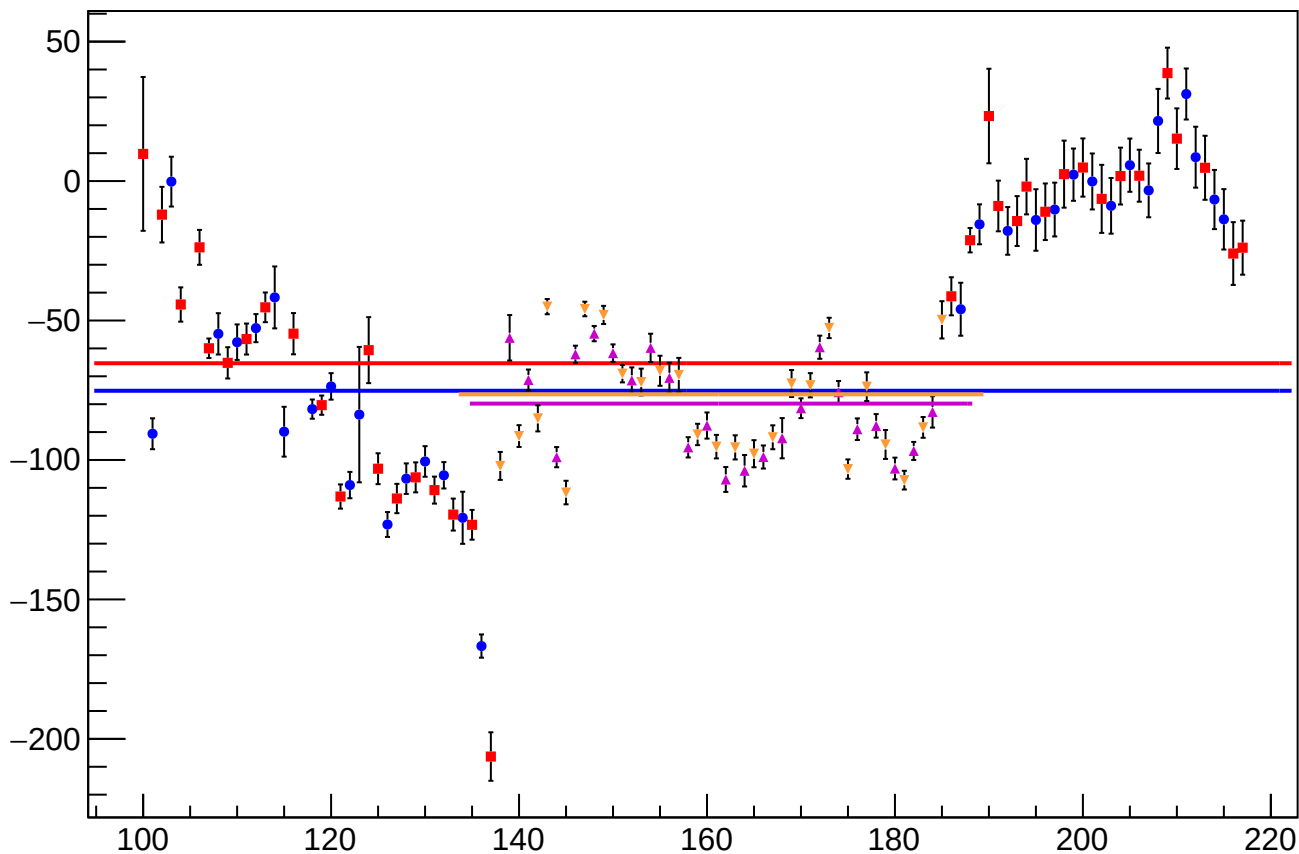
Right: -241.948+/-0.740 χ^2 /NDF: 8575.6/67

In: -219.280+/-0.733 χ^2 /NDF:5275.7/54

Out: -221.724+/-0.665 χ^2 /NDF:9399.3/60

All: -220.620+/-0.493 χ^2 /NDF: 14681.1/115

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.184 ± 1.182 $\chi^2/\text{NDF}: 1732.7/31$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -65.318 ± 1.089 $\chi^2/\text{NDF}: 1731.6/35$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

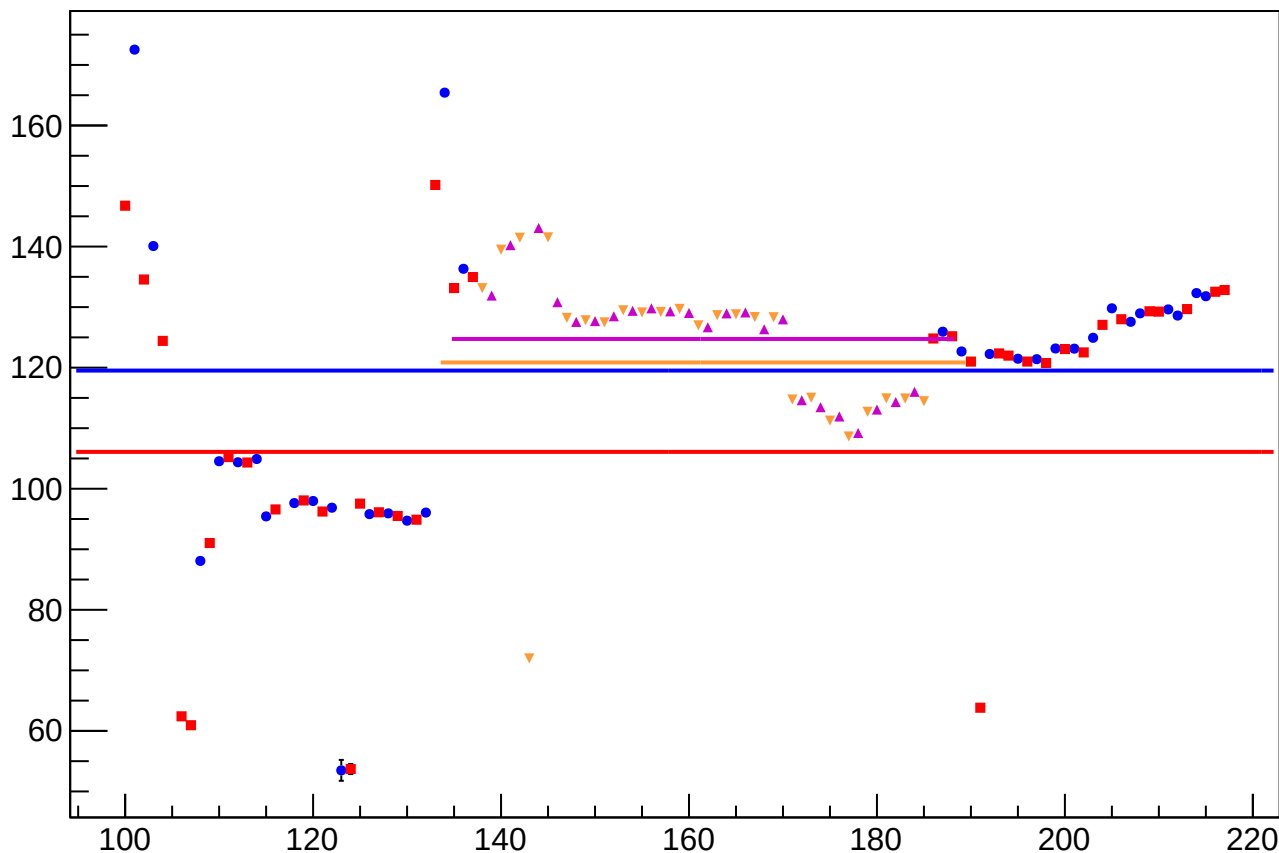
Right: -69.847 ± 0.801 $\chi^2/\text{NDF}: 3502.0/67$

In: -78.247 ± 0.685 $\chi^2/\text{NDF}: 2155.1/54$

Out: -72.575 ± 0.643 $\chi^2/\text{NDF}: 2581.2/60$

All: -75.233 ± 0.469 $\chi^2/\text{NDF}: 4772.7/115$

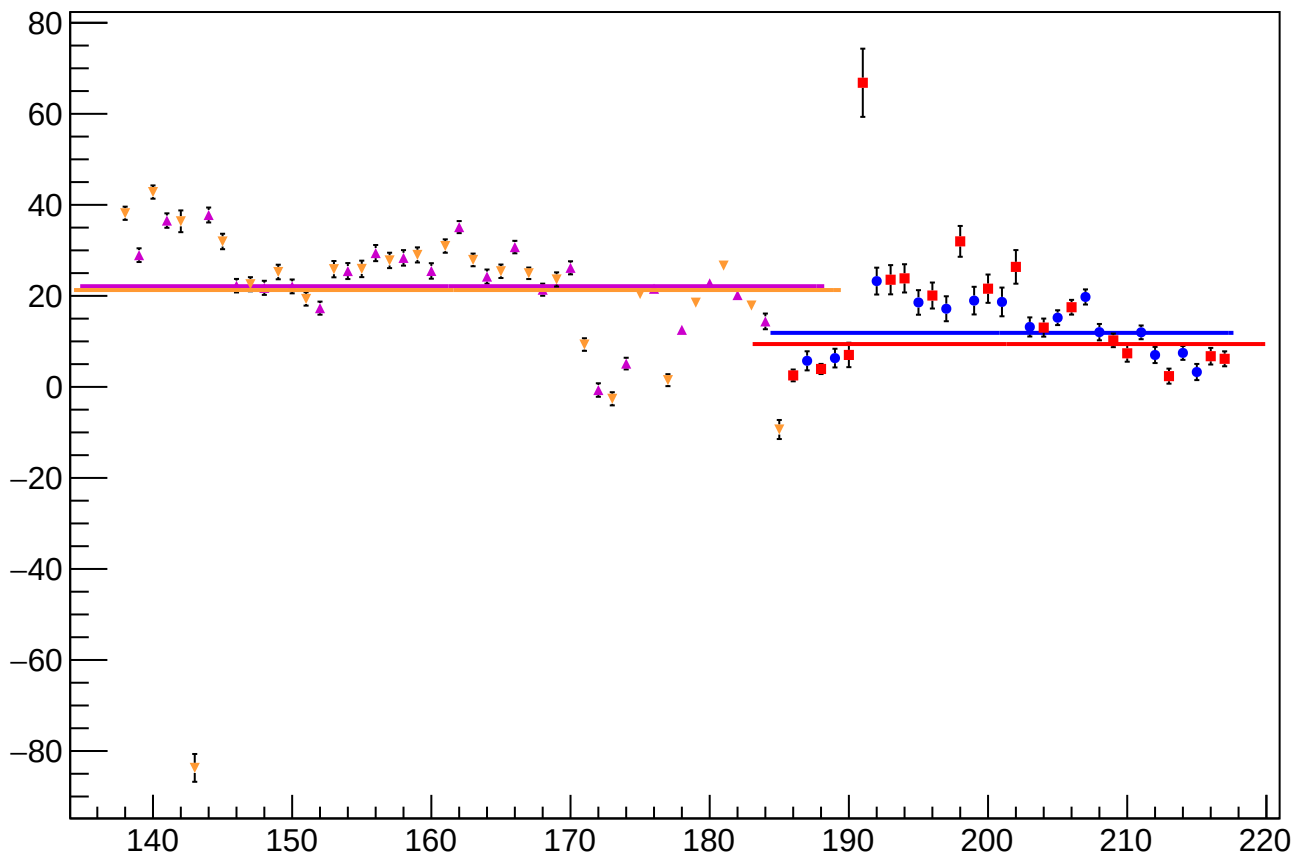
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.516 $\pm$ 0.061 χ^2 /NDF: 111883.1/31
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 106.088 $\pm$ 0.054 χ^2 /NDF: 254005.0/35
 Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47
 Right: 111.968 $\pm$ 0.040 χ^2 /NDF: 393347.7/67
 In: 123.200 $\pm$ 0.033 χ^2 /NDF:168393.8/54
 Out: 115.909 $\pm$ 0.031 χ^2 /NDF:487202.9/60
 All: 119.334 $\pm$ 0.023 χ^2 /NDF: 681530.7/115

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.873+/-0.510 χ^2/NDF : 117.1/14

Left Out: 21.282+/-0.282 χ^2/NDF : 2600.5/24

Right Out: 9.414+/-0.468 χ^2/NDF : 301.8/16

Left In: 22.127+/-0.285 χ^2/NDF : 900.2/22

Left: 21.700+/-0.201 χ^2/NDF : 3505.2/47

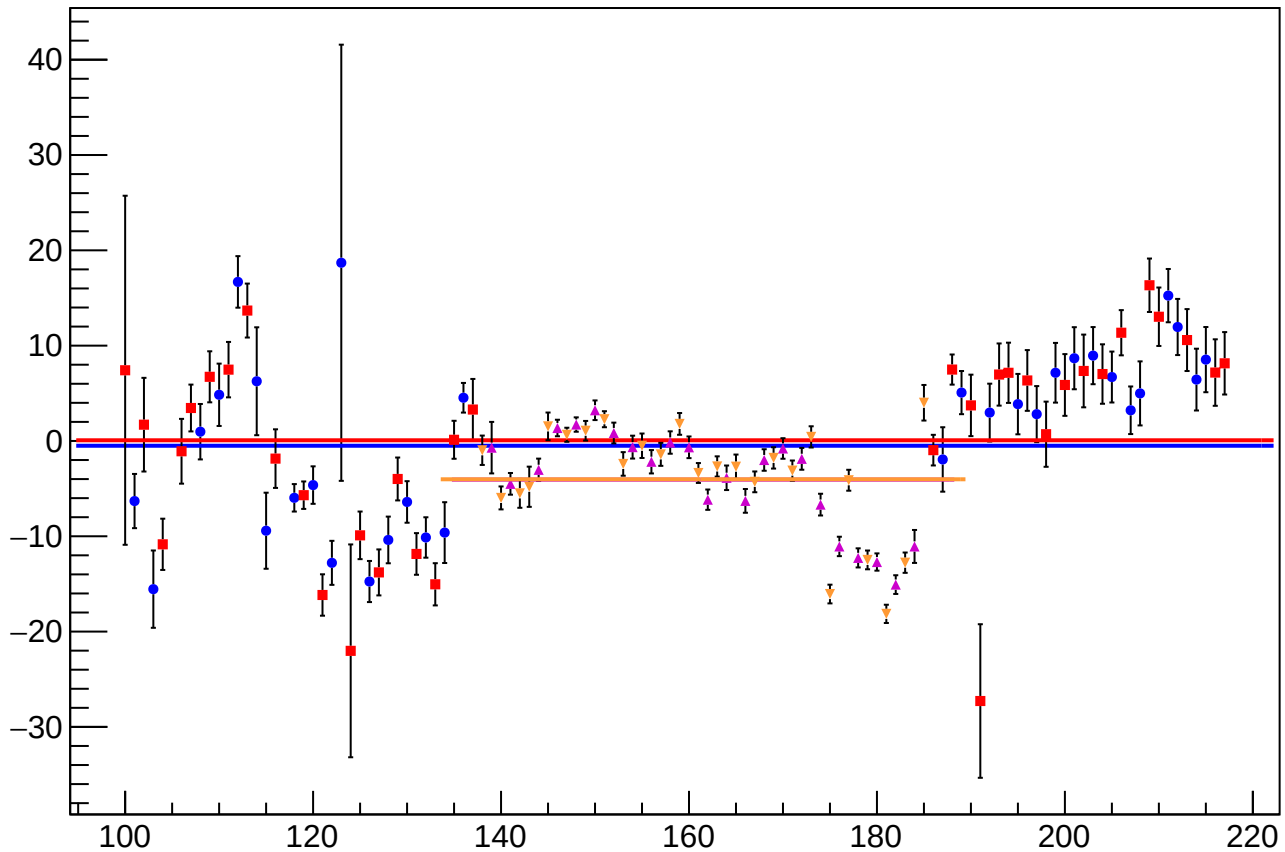
Right: 10.538+/-0.345 χ^2/NDF : 431.5/31

In: 19.683+/-0.249 χ^2/NDF : 1324.7/37

Out: 18.117+/-0.242 χ^2/NDF : 3373.1/41

All: 18.877+/-0.174 χ^2/NDF : 4718.1/79

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.502 ± 0.466 $\chi^2/\text{NDF}: 329.9/31$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: 0.070 ± 0.441 $\chi^2/\text{NDF}: 415.7/35$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

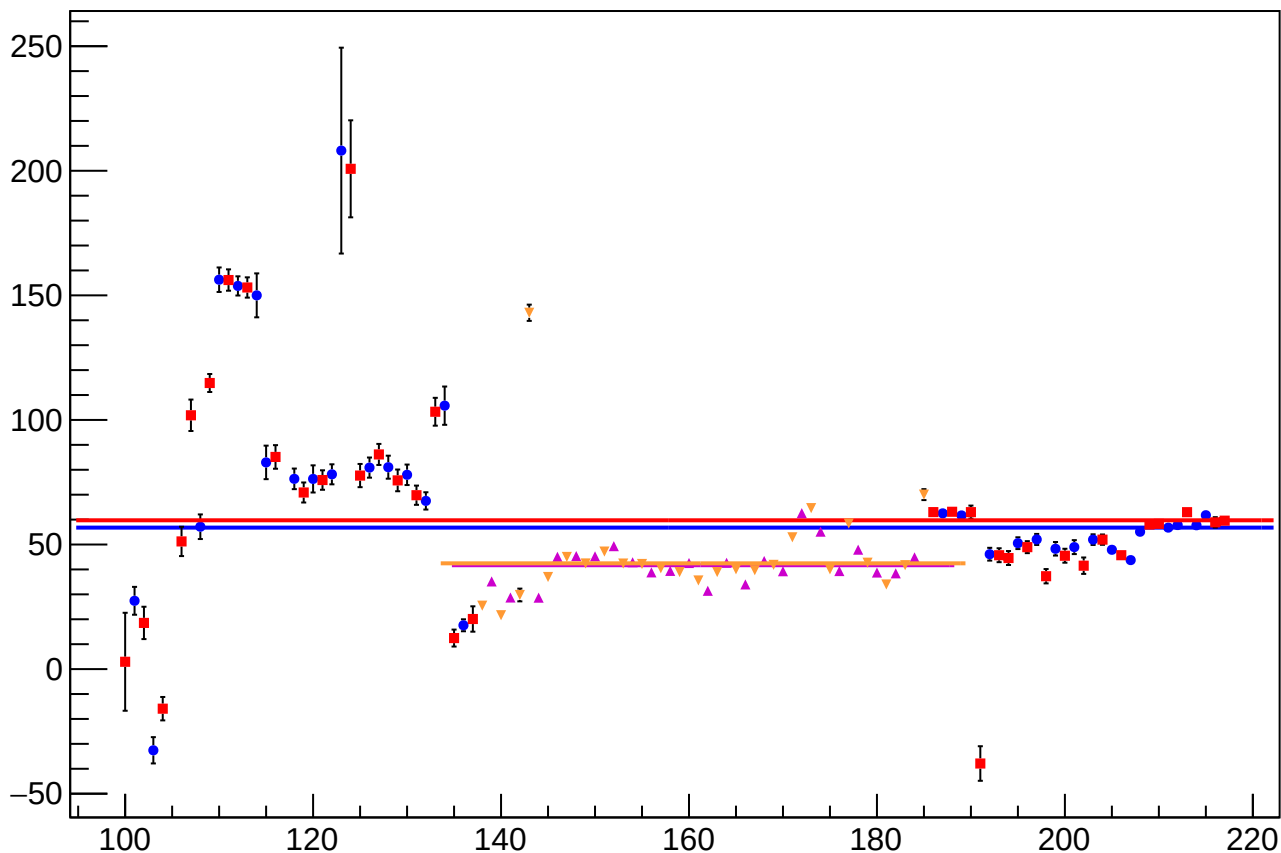
Right: -0.200 ± 0.320 $\chi^2/\text{NDF}: 746.4/67$

In: -3.371 ± 0.205 $\chi^2/\text{NDF}: 954.2/54$

Out: -3.187 ± 0.199 $\chi^2/\text{NDF}: 1218.4/60$

All: -3.276 ± 0.143 $\chi^2/\text{NDF}: 2173.0/115$

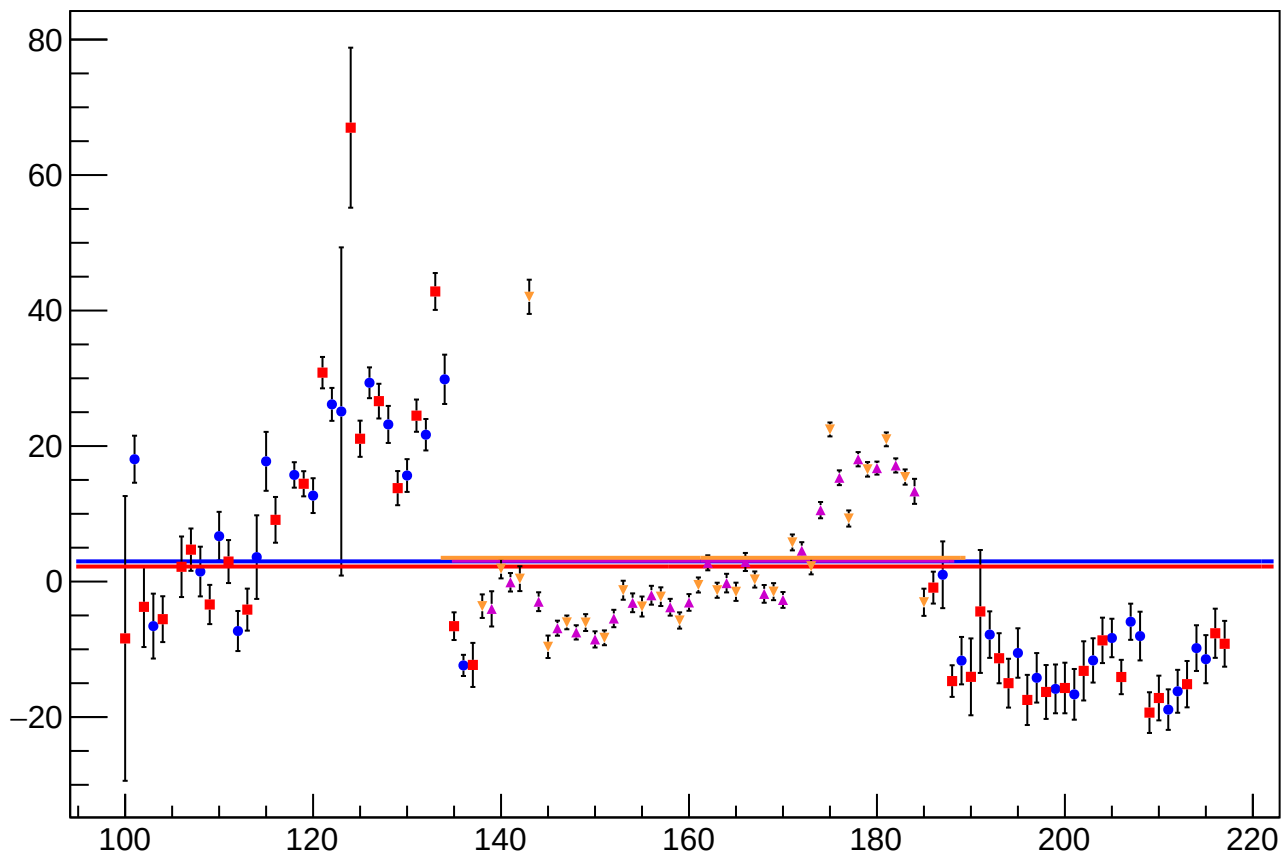
reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.788 +/- 0.451 χ^2/NDF : 2142.3/31
 Left Out: 42.452 +/- 0.282 χ^2/NDF : 2016.0/24
 Right Out: 59.726 +/- 0.403 χ^2/NDF : 2633.0/35
 Left In: 41.695 +/- 0.284 χ^2/NDF : 630.2/22

Left: 42.077 +/- 0.200 χ^2/NDF : 2649.8/47
 Right: 58.422 +/- 0.300 χ^2/NDF : 4798.9/67
 In: 45.987 +/- 0.240 χ^2/NDF : 3575.0/54
 Out: 48.137 +/- 0.231 χ^2/NDF : 5884.4/60
 All: 47.105 +/- 0.167 χ^2/NDF : 9501.0/115

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.981 $\pm$ 0.529 χ^2 /NDF: 928.3/31

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 2.218 $\pm$ 0.515 χ^2 /NDF: 1122.8/35

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

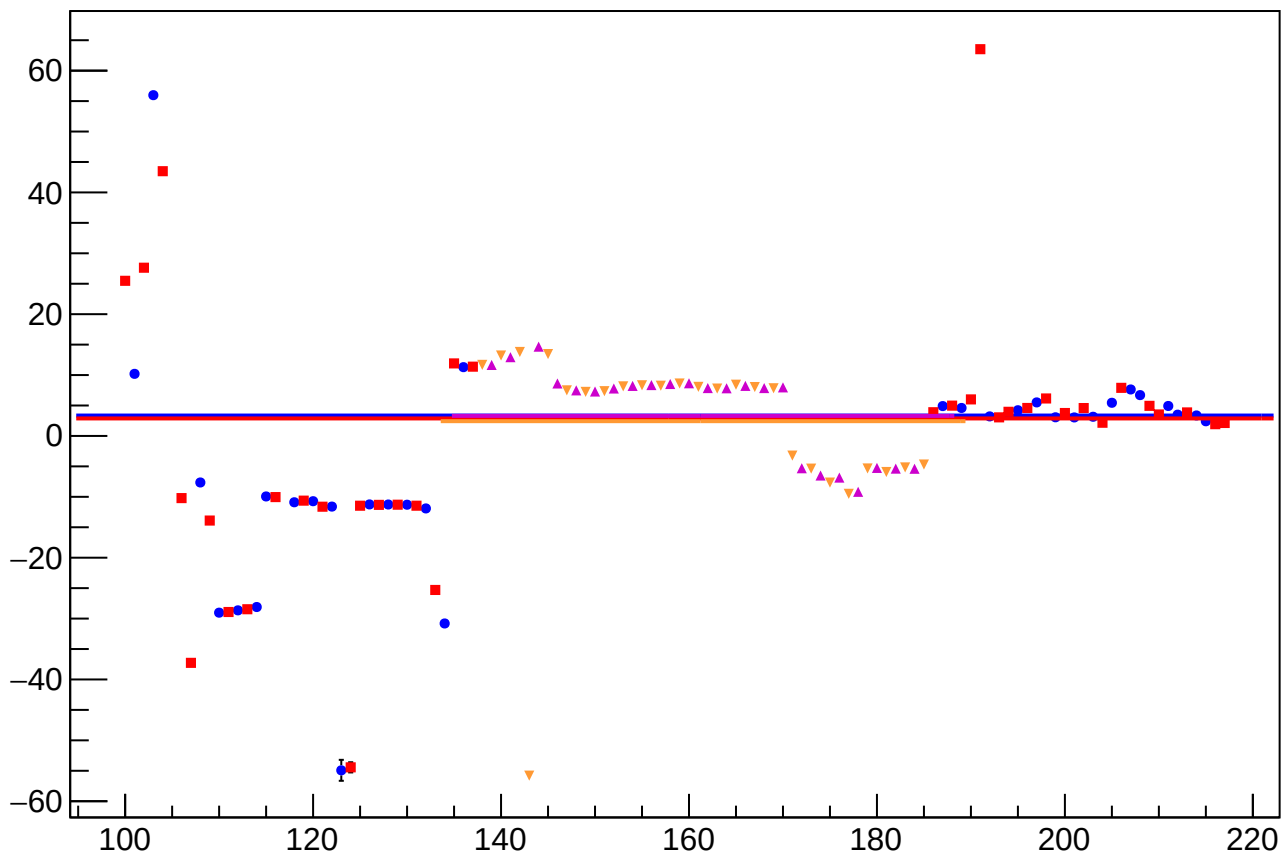
Right: 2.589 $\pm$ 0.369 χ^2 /NDF: 2052.2/67

In: 3.062 $\pm$ 0.231 χ^2 /NDF:2194.1/54

Out: 3.256 $\pm$ 0.227 χ^2 /NDF:2819.1/60

All: 3.161 $\pm$ 0.162 χ^2 /NDF: 5013.6/115

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.350 $\pm$ 0.025 χ^2 /NDF: 362423.6/31

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.873 $\pm$ 0.024 χ^2 /NDF: 434567.5/35

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

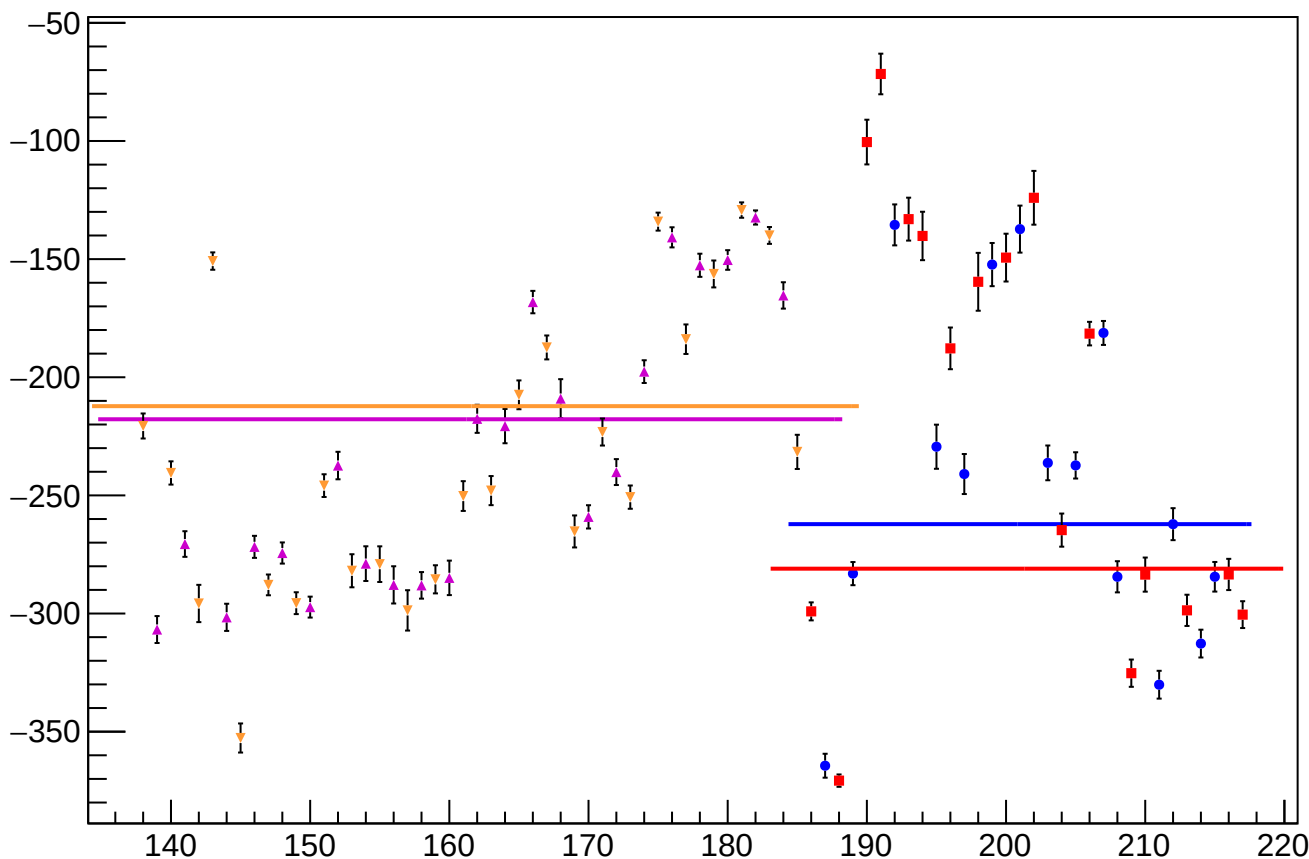
Right: 3.108 $\pm$ 0.017 χ^2 /NDF: 797178.6/67

In: 3.303 $\pm$ 0.011 χ^2 /NDF: 766751.8/54

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051225.8/60

All: 2.901 $\pm$ 0.007 χ^2 /NDF: 1820847.6/115

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -262.166 ± 1.669 $\chi^2/\text{NDF}: 1478.5/14$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -281.017 ± 1.435 $\chi^2/\text{NDF}: 3665.0/16$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

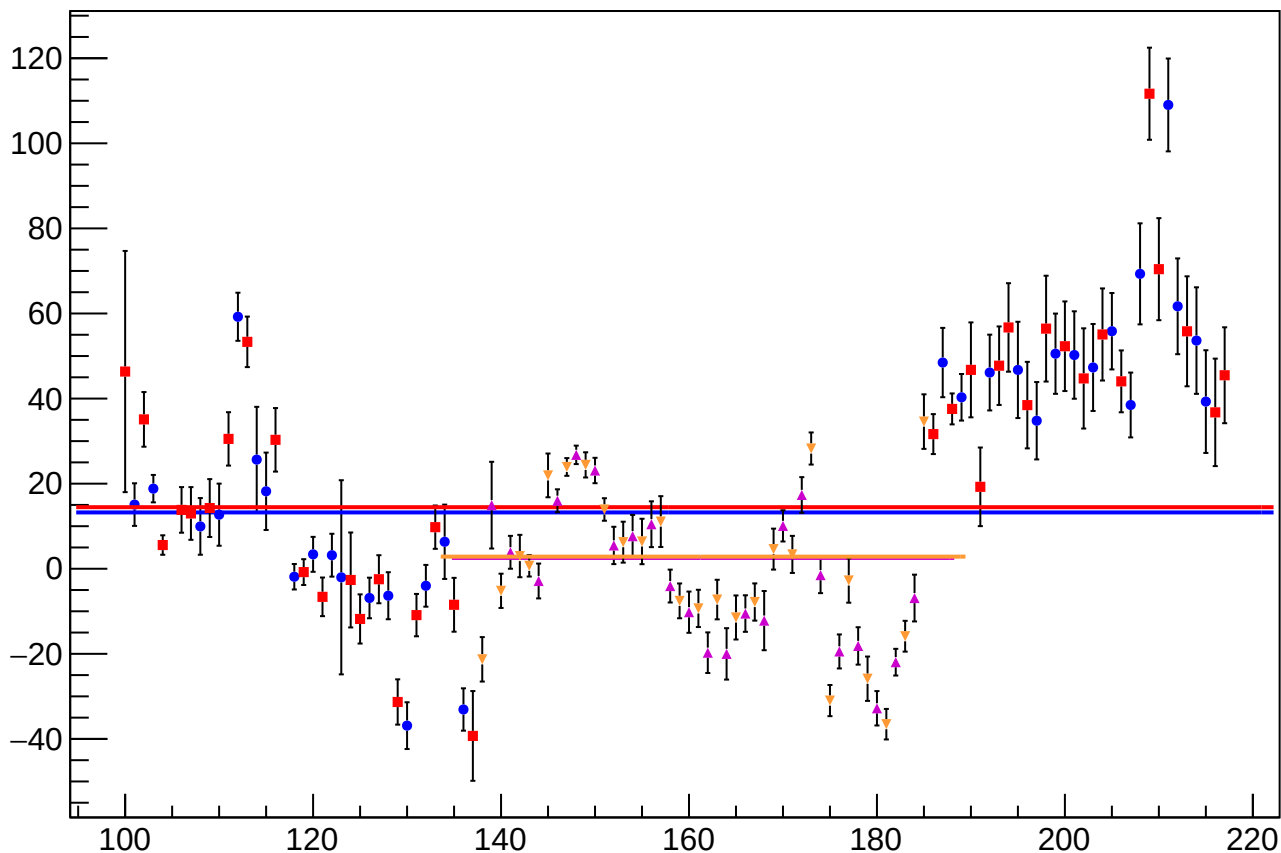
Right: -273.000 ± 1.088 $\chi^2/\text{NDF}: 5216.8/31$

In: -230.659 ± 0.899 $\chi^2/\text{NDF}: 5429.8/37$

Out: -235.595 ± 0.837 $\chi^2/\text{NDF}: 9057.0/41$

All: -233.304 ± 0.612 $\chi^2/\text{NDF}: 14502.9/79$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.238 ± 1.103 $\chi^2/\text{NDF}: 596.9/31$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 14.469 ± 0.999 $\chi^2/\text{NDF}: 581.6/35$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

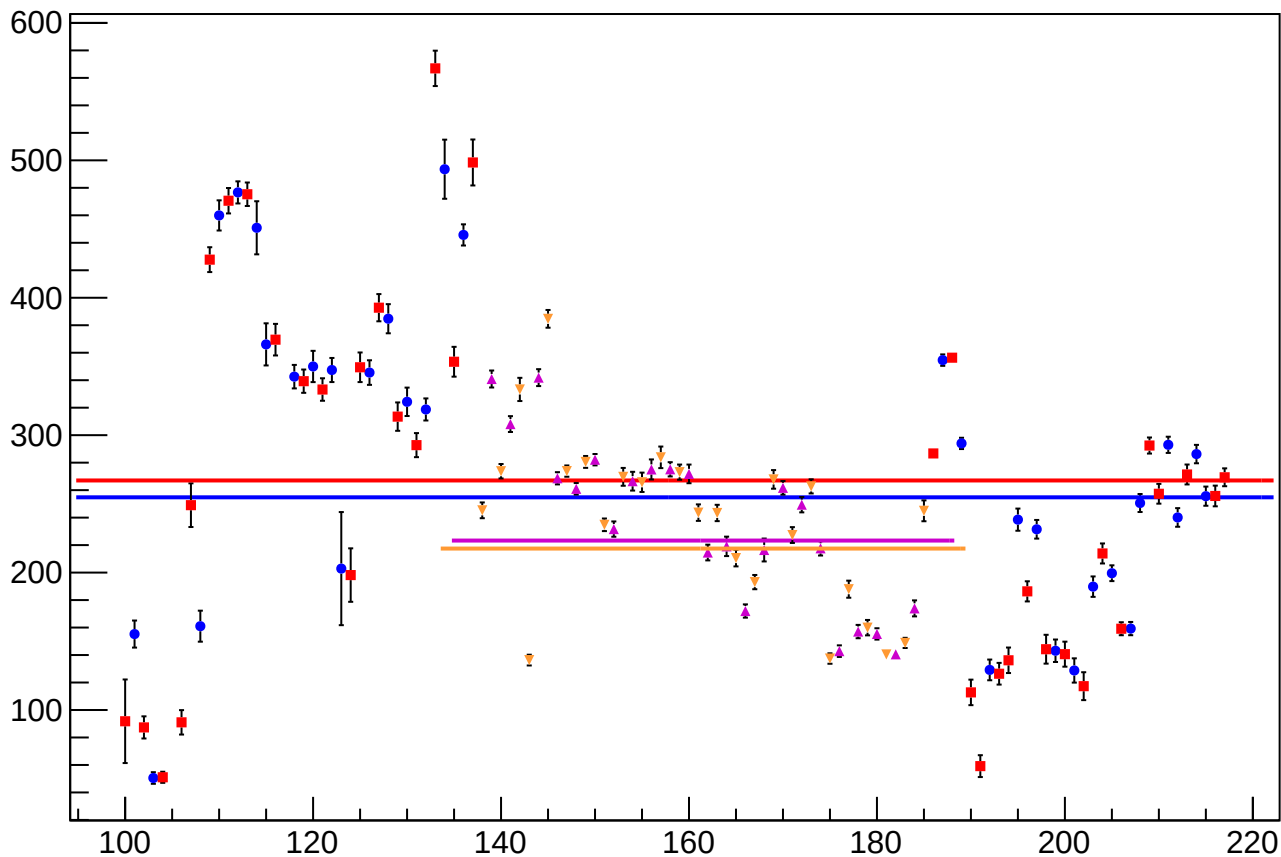
Right: 13.915 ± 0.740 $\chi^2/\text{NDF}: 1179.2/67$

In: 6.362 ± 0.659 $\chi^2/\text{NDF}: 1131.0/54$

Out: 7.212 ± 0.612 $\chi^2/\text{NDF}: 1248.3/60$

All: 6.819 ± 0.449 $\chi^2/\text{NDF}: 2380.2/115$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.774 $\pm$ 1.277 χ^2 /NDF: 7140.8/31

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 267.039 $\pm$ 1.090 χ^2 /NDF: 11054.5/35

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF:3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

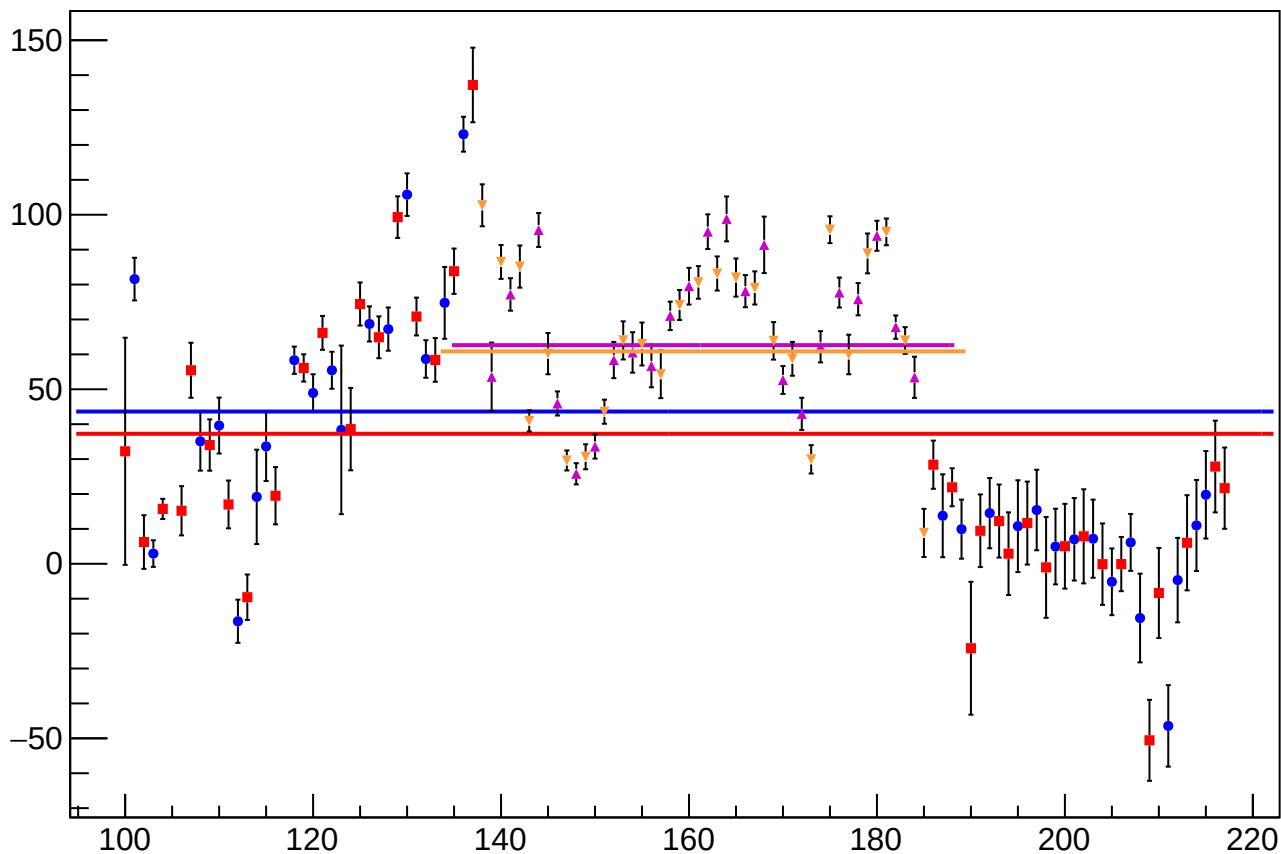
Right: 261.874 $\pm$ 0.829 χ^2 /NDF: 18248.7/67

In: 236.166 $\pm$ 0.817 χ^2 /NDF:10877.6/54

Out: 240.927 $\pm$ 0.749 χ^2 /NDF:15914.1/60

All: 238.751 $\pm$ 0.552 χ^2 /NDF: 26810.1/115

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.624 $\pm$ 1.282 χ^2 /NDF: 916.1/31

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.245 $\pm$ 1.191 χ^2 /NDF: 741.1/35

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF: 515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

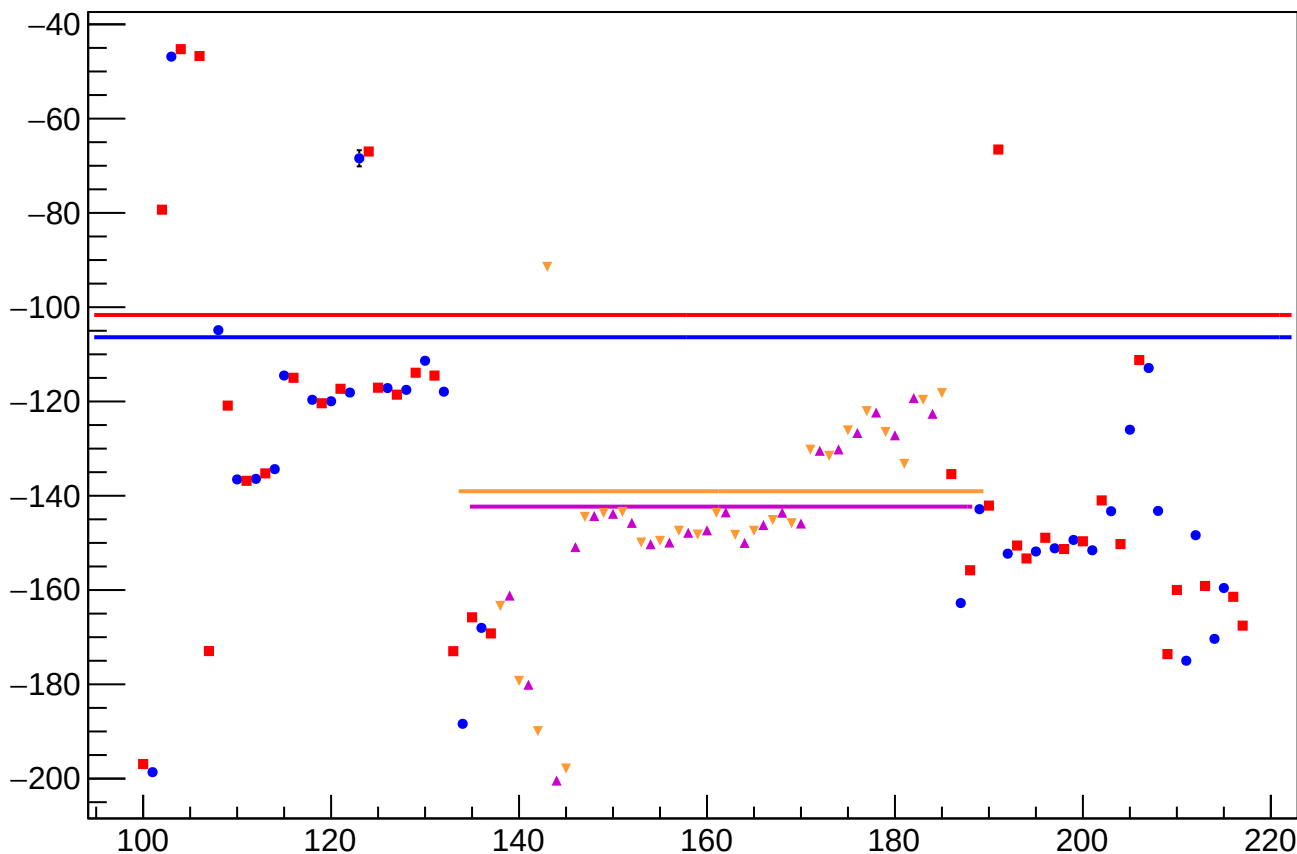
Right: 40.200 $\pm$ 0.873 χ^2 /NDF: 1670.5/67

In: 55.968 $\pm$ 0.760 χ^2 /NDF: 1574.3/54

Out: 52.323 $\pm$ 0.716 χ^2 /NDF: 1723.6/60

All: 54.039 $\pm$ 0.521 χ^2 /NDF: 3310.1/115

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -106.374+/-0.057 χ^2/NDF : 737025.4/31

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -101.649+/-0.054 χ^2/NDF : 780383.4/35

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

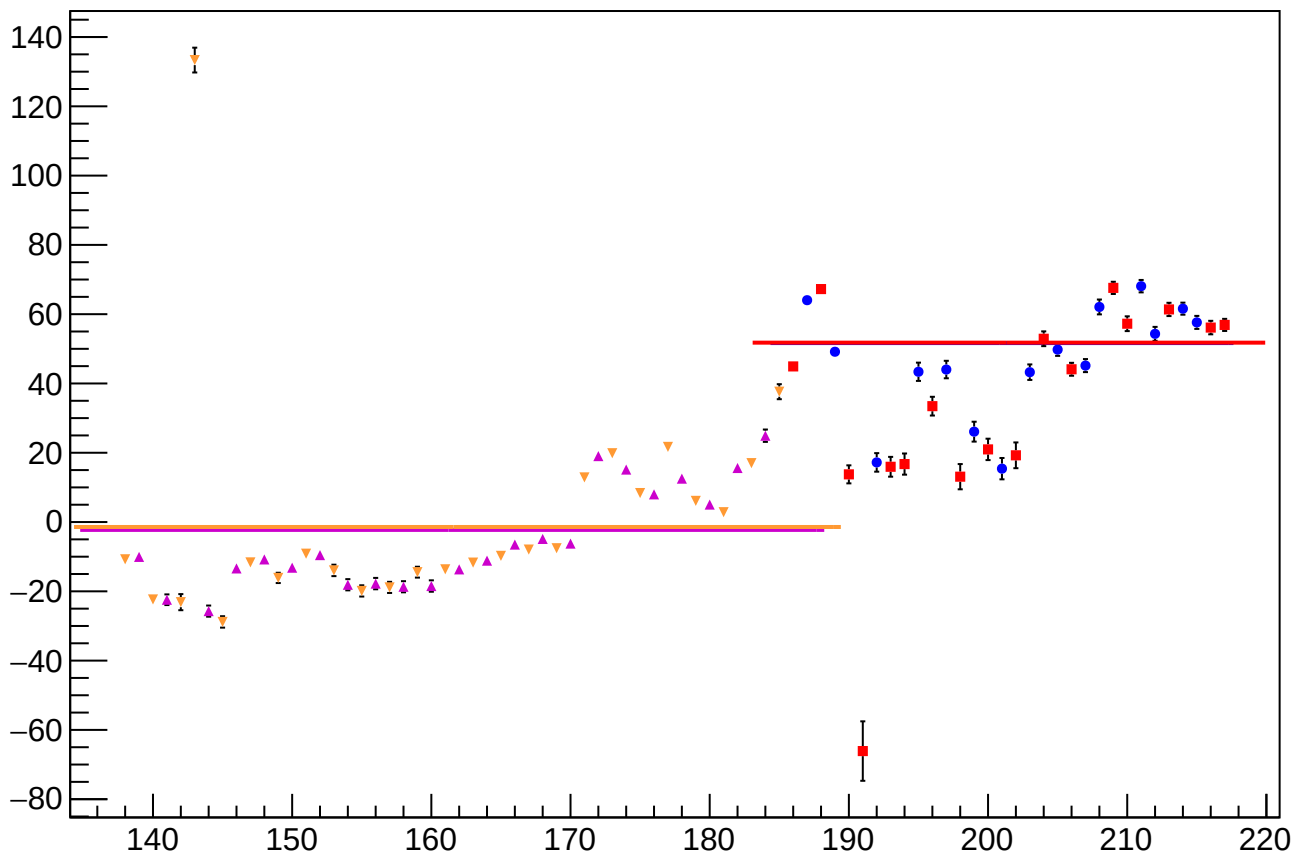
Right: -103.878+/-0.039 χ^2/NDF : 1521001.7/67

In: -128.947+/-0.035 χ^2/NDF : 1127418.7/54

Out: -124.632+/-0.034 χ^2/NDF : 1331649.2/60

All: -126.706+/-0.024 χ^2/NDF : 2466993.0/11

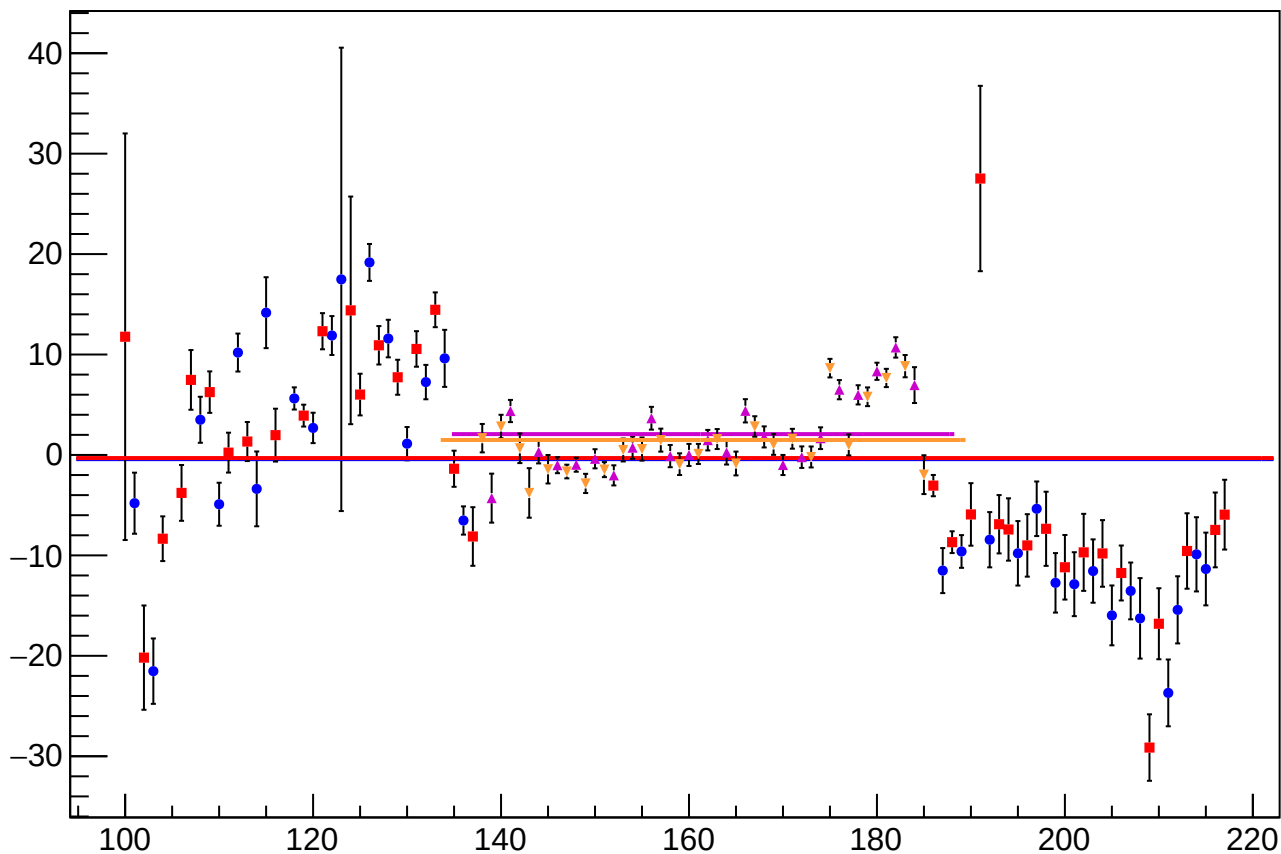
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 51.663 ± 0.511 χ^2/NDF : 663.4/14
 Left Out: -1.427 ± 0.268 χ^2/NDF : 4339.0/24
 Right Out: 51.782 ± 0.419 χ^2/NDF : 1630.2/16
 Left In: -2.270 ± 0.271 χ^2/NDF : 2521.6/22

Left: -1.844 ± 0.190 χ^2/NDF : 6865.5/47
 Right: 51.734 ± 0.324 χ^2/NDF : 2293.6/31
 In: 9.550 ± 0.239 χ^2/NDF : 11882.4/37
 Out: 13.992 ± 0.226 χ^2/NDF : 17423.2/41
 All: 11.902 ± 0.164 χ^2/NDF : 29488.2/79

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.418 ± 0.396 χ^2/NDF : 654.1/31

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.309 ± 0.365 χ^2/NDF : 550.7/35

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

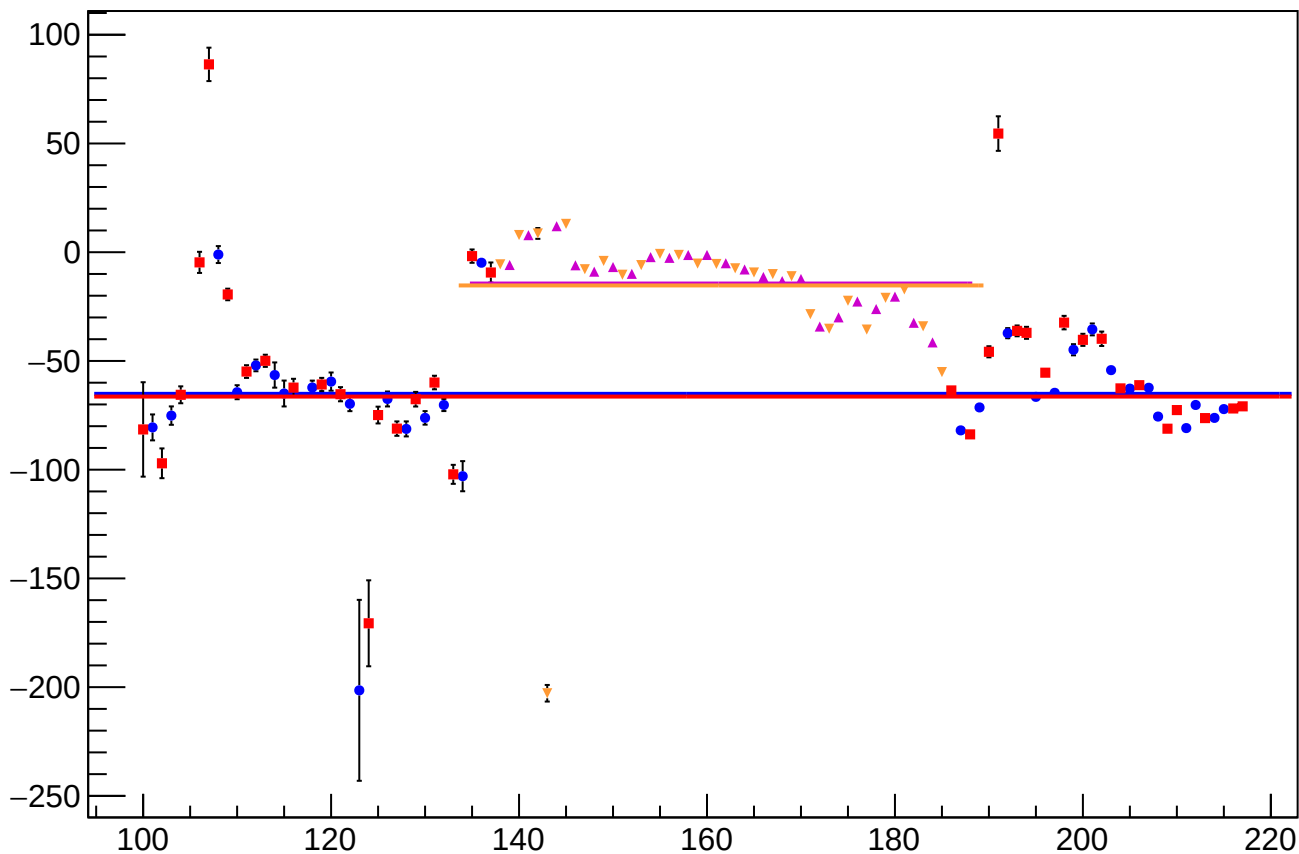
Right: -0.359 ± 0.269 χ^2/NDF : 1204.9/67

In: 1.506 ± 0.189 χ^2/NDF : 959.2/54

Out: 1.043 ± 0.182 χ^2/NDF : 828.0/60

All: 1.266 ± 0.131 χ^2/NDF : 1790.4/115

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.126+/-0.418 χ^2/NDF : 1909.9/31

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.381+/-0.338 χ^2/NDF : 3432.2/35

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

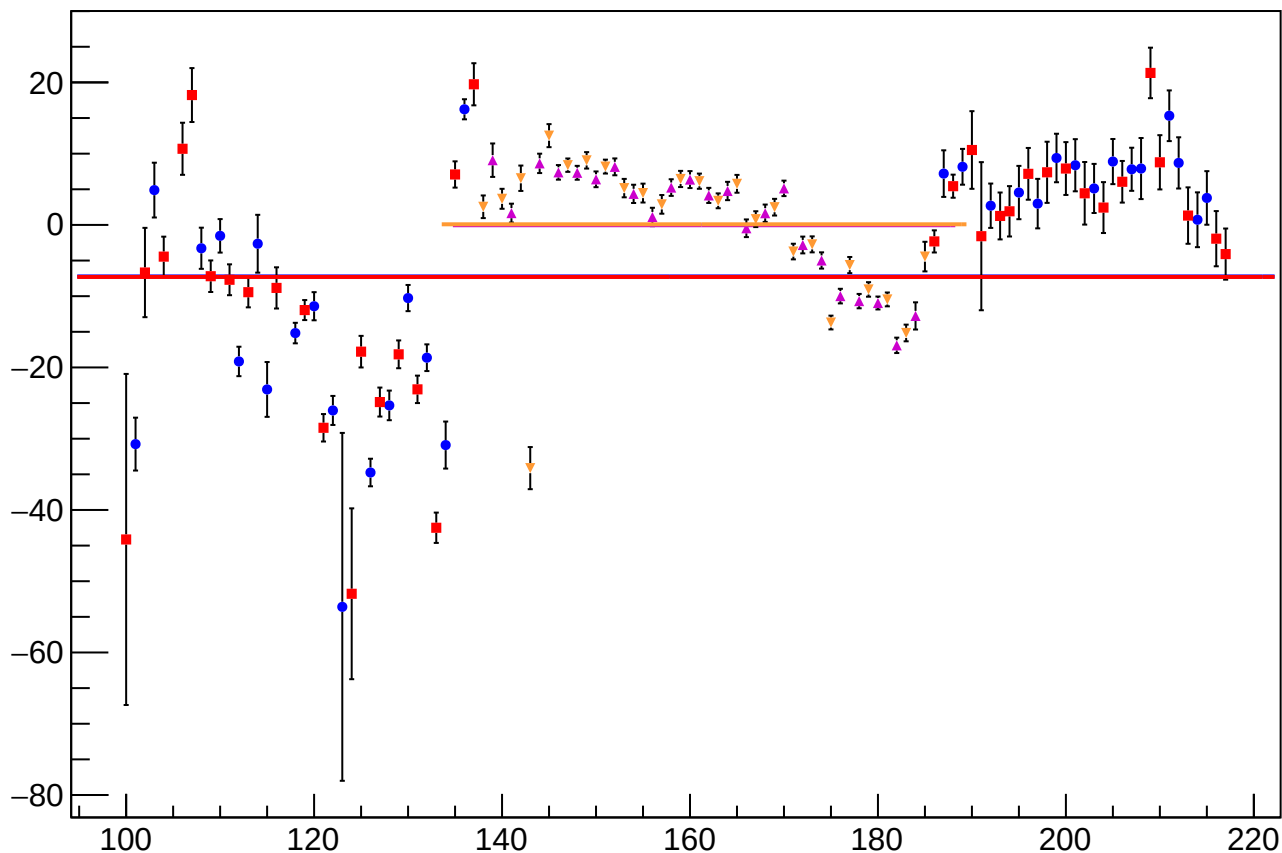
Right: -65.885+/-0.263 χ^2/NDF : 5347.6/67

In: -29.248+/-0.226 χ^2/NDF : 14337.3/54

Out: -34.880+/-0.209 χ^2/NDF : 22324.5/60

All: -32.282+/-0.154 χ^2/NDF : 36995.3/115

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.231 ± 0.458 χ^2/NDF : 1155.6/31

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.302 ± 0.436 χ^2/NDF : 1100.1/35

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

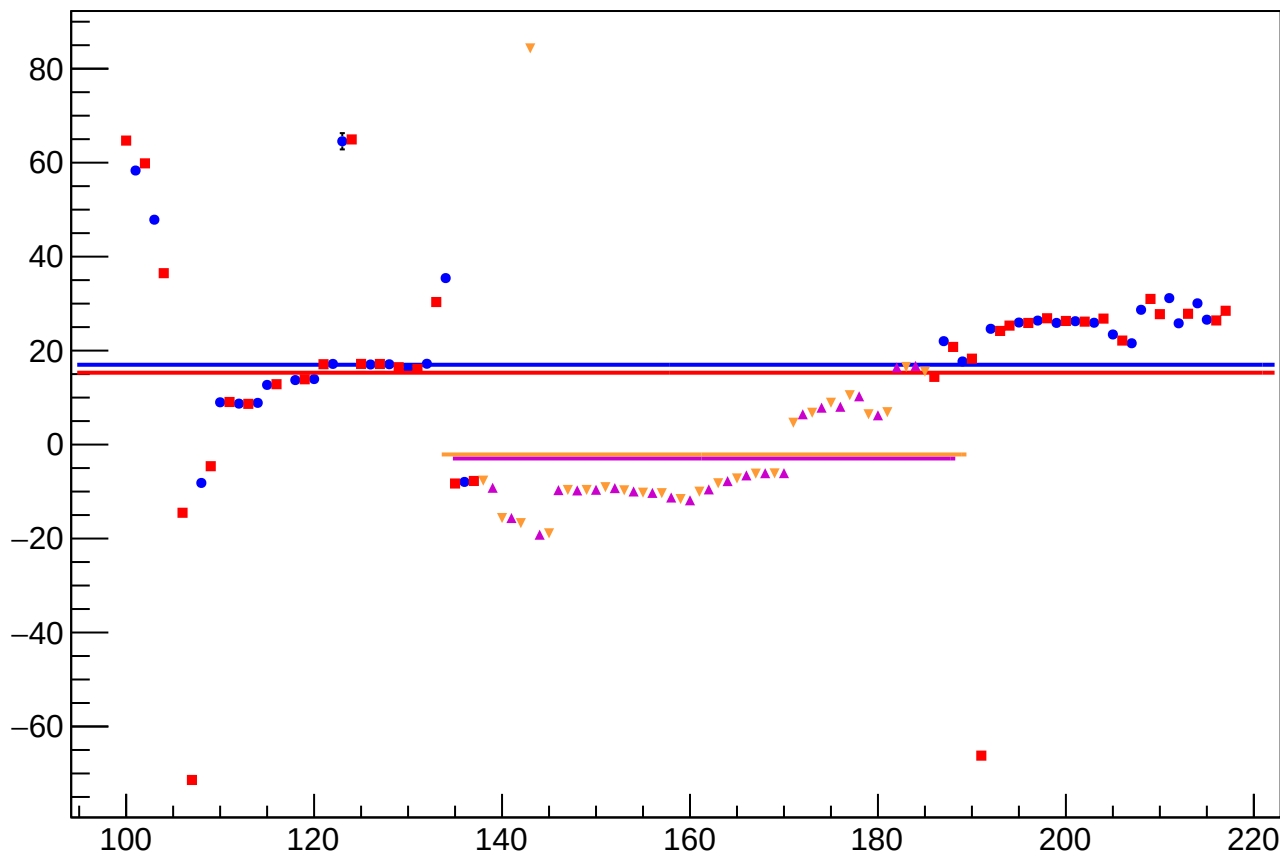
Right: -7.268 ± 0.316 χ^2/NDF : 2255.8/67

In: -1.625 ± 0.215 χ^2/NDF : 2376.1/54

Out: -1.613 ± 0.209 χ^2/NDF : 2493.7/60

All: -1.619 ± 0.150 χ^2/NDF : 4869.8/115

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.989+/-0.023 χ^2/NDF : 492579.0/31

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.298+/-0.022 χ^2/NDF : 774160.7/35

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

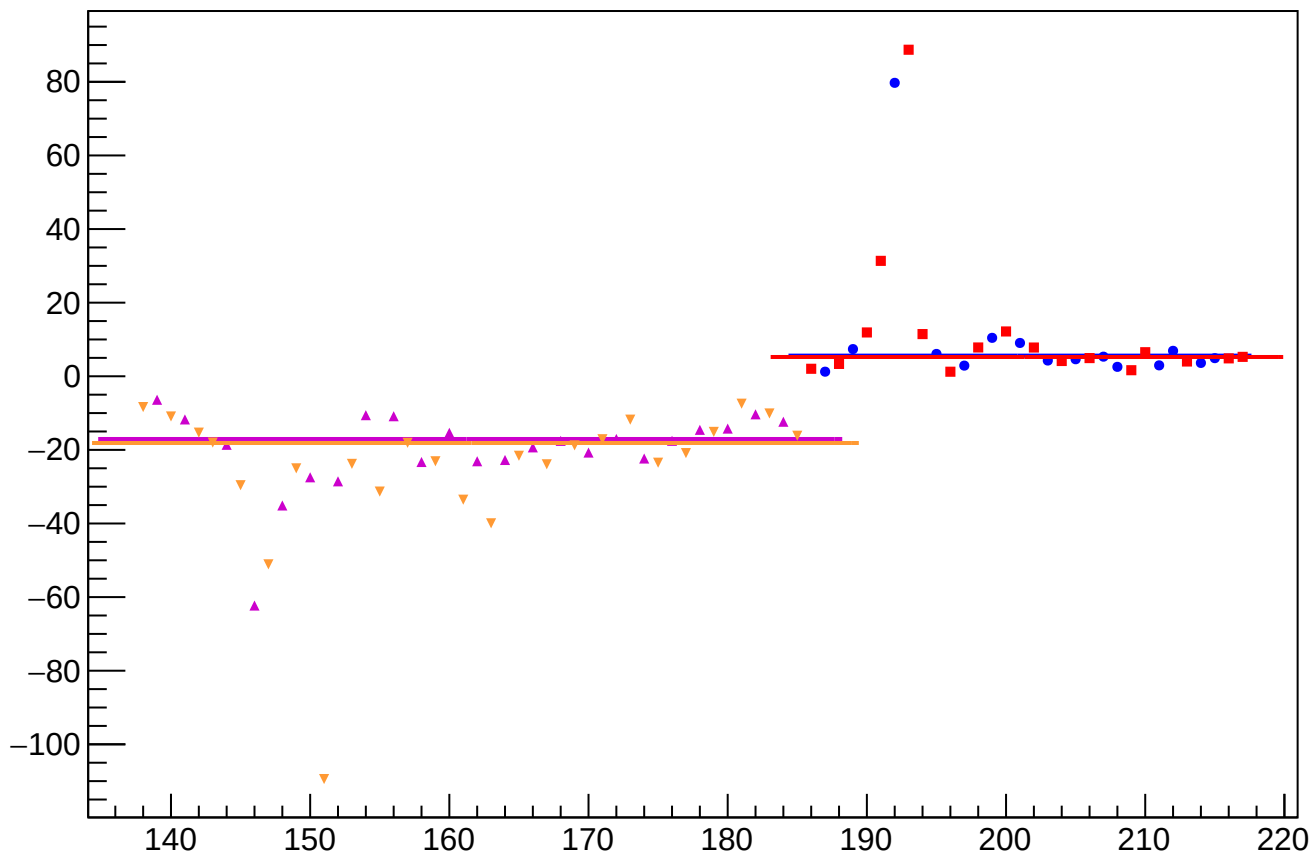
Right: 16.125+/-0.016 χ^2/NDF : 1269578.9/67

In: 0.838+/-0.010 χ^2/NDF : 1881458.4/54

Out: 1.286+/-0.010 χ^2/NDF : 2361982.3/60

All: 1.064+/-0.007 χ^2/NDF : 4244473.3/115

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.610 $\pm$ 0.048 χ^2 /NDF: 26472.2/14

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 5.241 $\pm$ 0.046 χ^2 /NDF: 26888.1/16

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

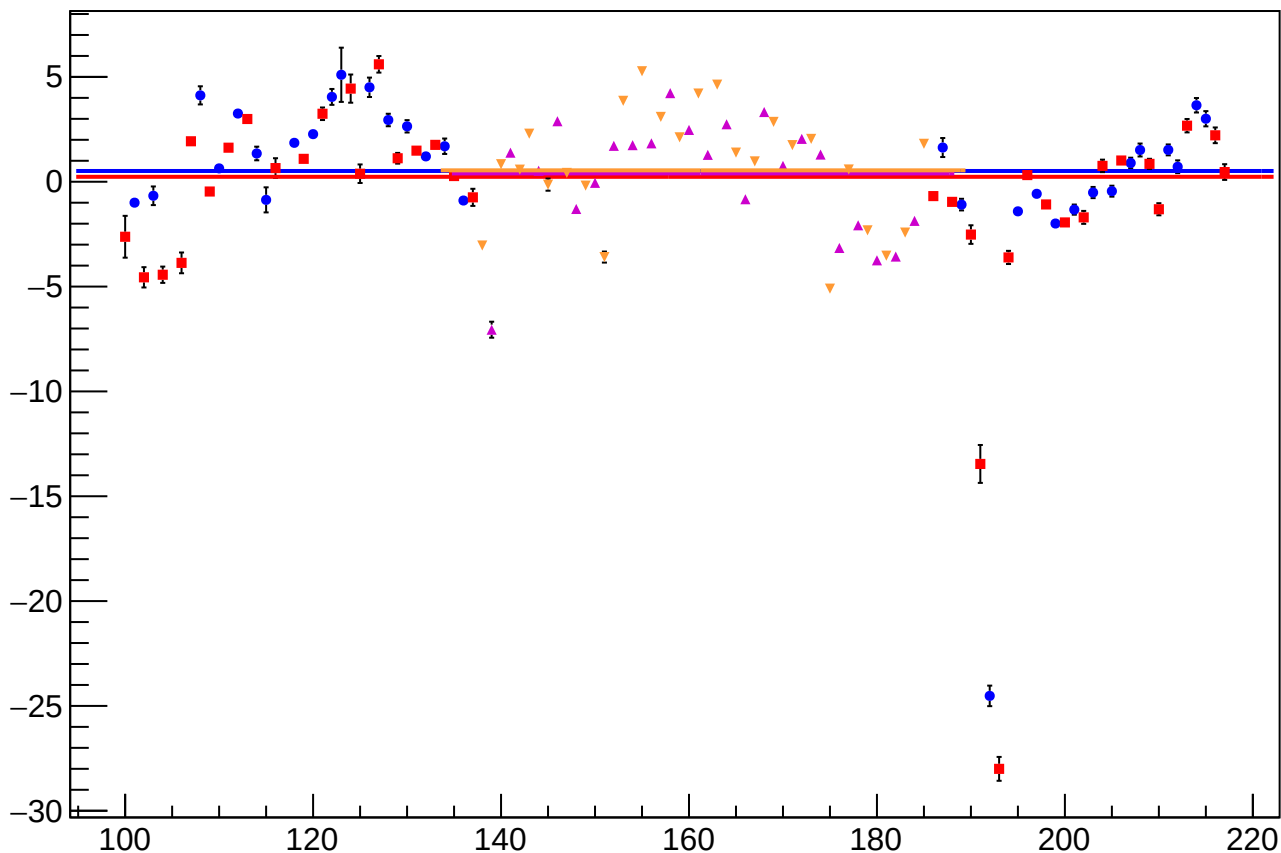
Right: 5.418 $\pm$ 0.034 χ^2 /NDF: 53390.7/31

In: -8.349 $\pm$ 0.030 χ^2 /NDF: 205800.5/37

Out: -8.492 $\pm$ 0.030 χ^2 /NDF: 264147.7/41

All: -8.421 $\pm$ 0.021 χ^2 /NDF: 469959.6/79

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.513 $\pm$ 0.046 χ^2 /NDF: 3994.3/31

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF:7085.3/24

Right Out: 0.236 $\pm$ 0.044 χ^2 /NDF: 4388.0/35

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF:6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

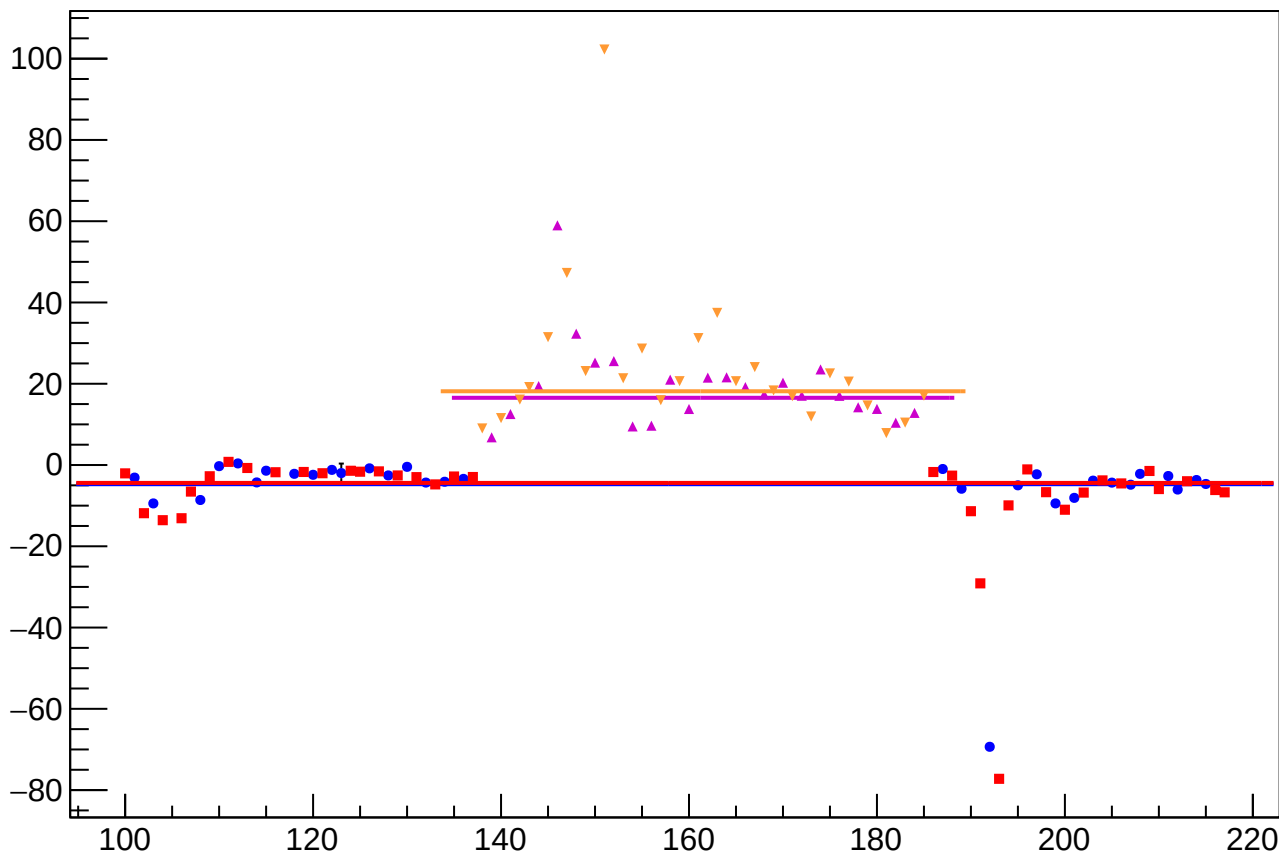
Right: 0.367 $\pm$ 0.032 χ^2 /NDF: 8401.5/67

In: 0.433 $\pm$ 0.026 χ^2 /NDF:10234.3/54

Out: 0.434 $\pm$ 0.026 χ^2 /NDF:11505.4/60

All: 0.433 $\pm$ 0.018 χ^2 /NDF: 21739.7/115

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

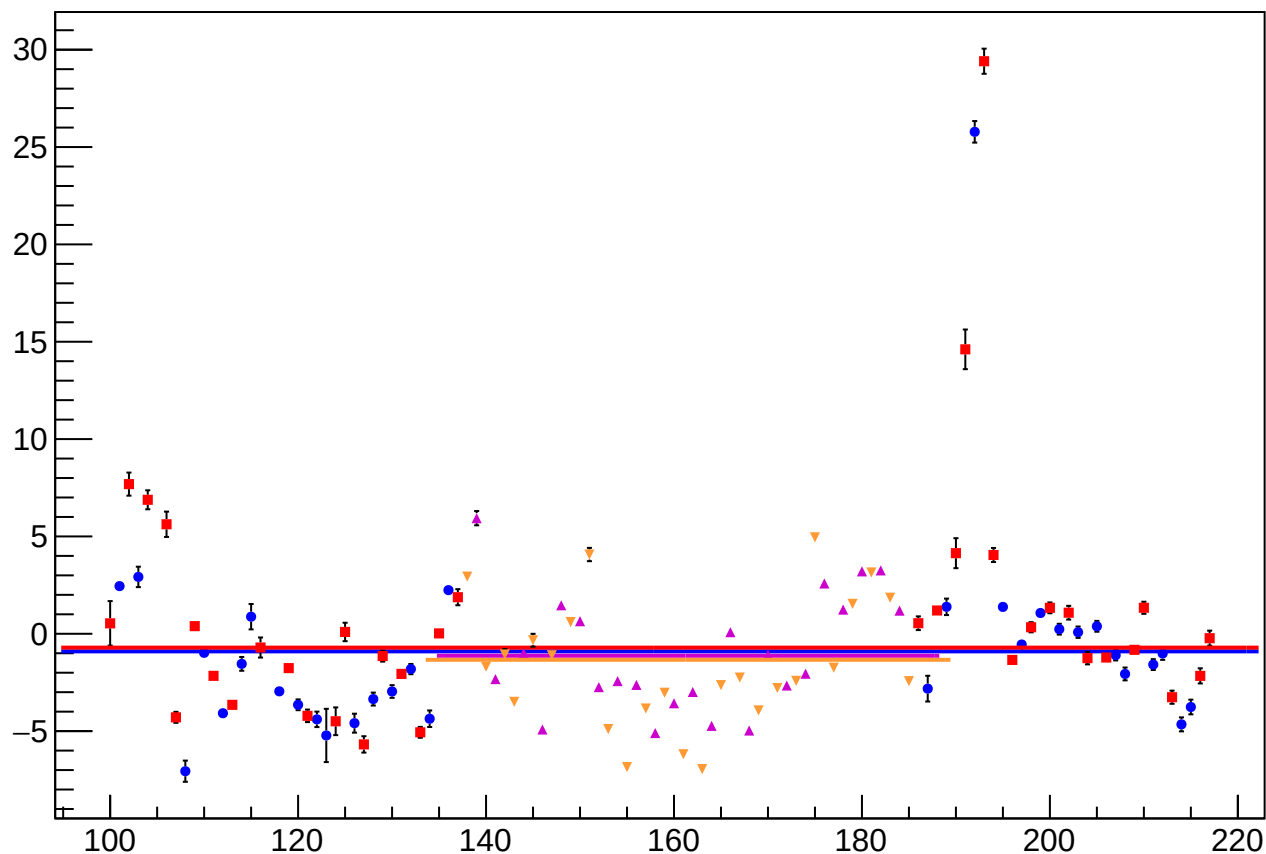
Right: -4.550 ± 0.029 $\chi^2/\text{NDF}: 55725.9/67$

In: 7.217 ± 0.028 $\chi^2/\text{NDF}: 207222.7/54$

Out: 7.006 ± 0.028 $\chi^2/\text{NDF}: 270716.8/60$

All: 7.110 ± 0.020 $\chi^2/\text{NDF}: 477967.6/115$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.904 ± 0.053 $\chi^2/\text{NDF}: 4114.9/31$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.711 ± 0.050 $\chi^2/\text{NDF}: 4591.1/35$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

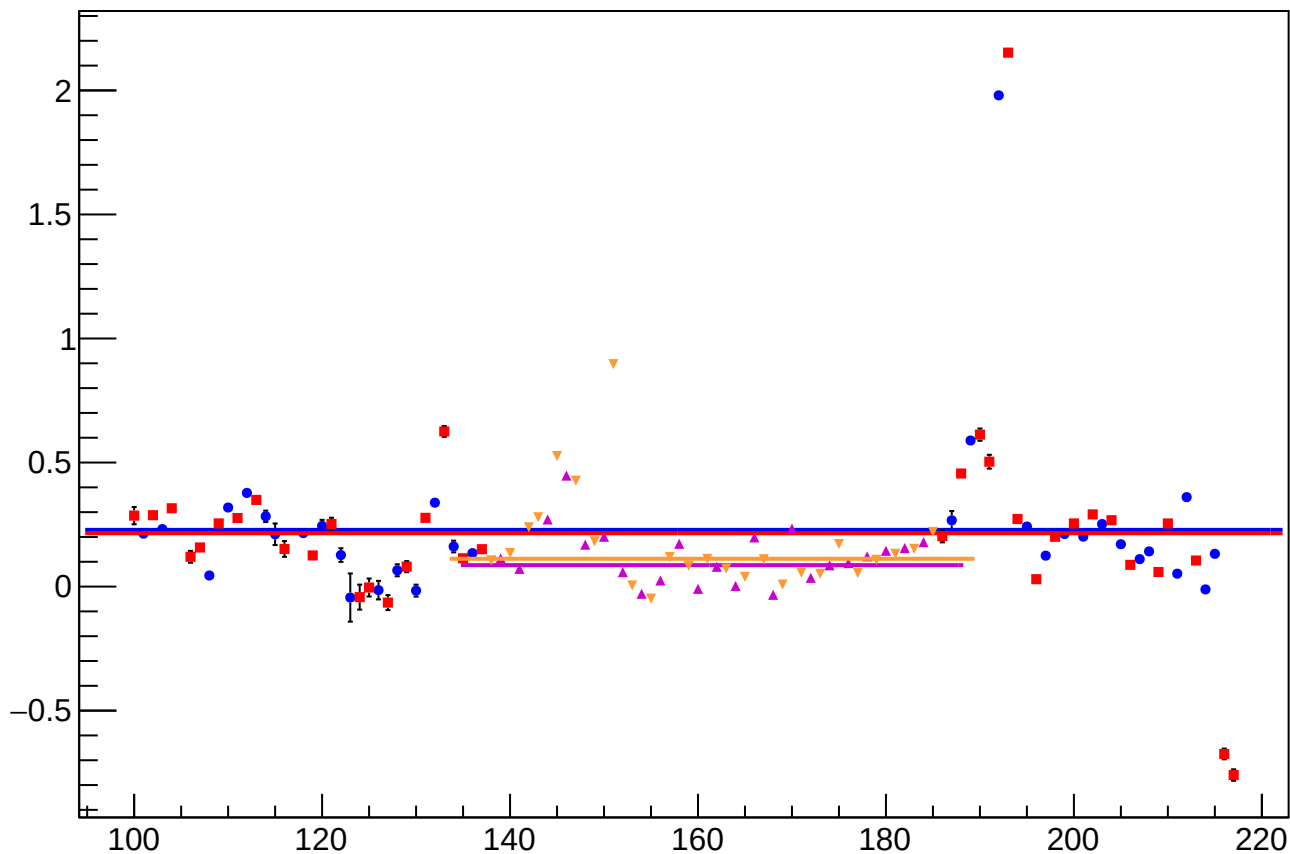
Right: -0.803 ± 0.036 $\chi^2/\text{NDF}: 8712.9/67$

In: -1.063 ± 0.029 $\chi^2/\text{NDF}: 10868.0/54$

Out: -1.126 ± 0.029 $\chi^2/\text{NDF}: 12637.0/60$

All: -1.094 ± 0.020 $\chi^2/\text{NDF}: 23507.3/115$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.229 $\pm$ 0.002 χ^2 /NDF: 11879.0/31

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.215 $\pm$ 0.002 χ^2 /NDF: 15696.1/35

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

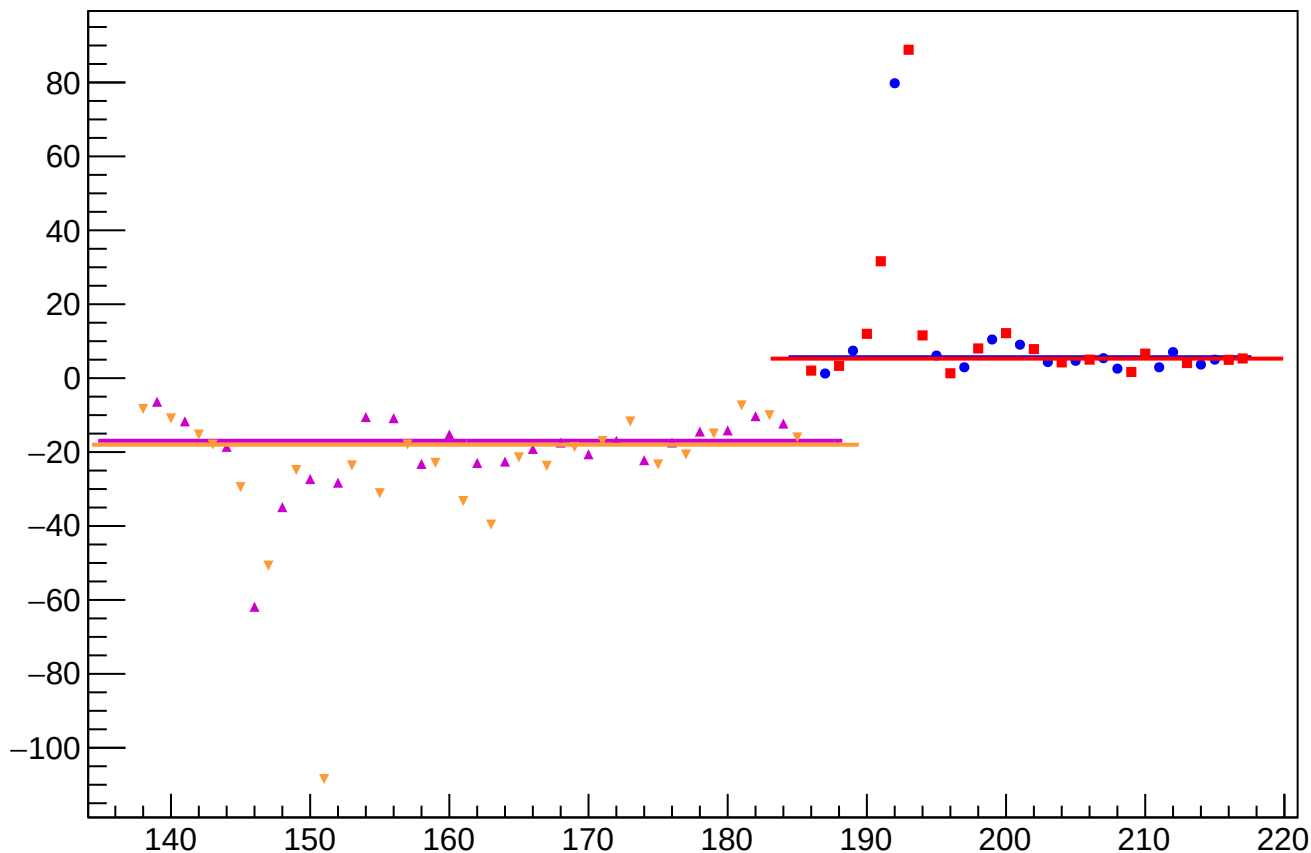
Right: 0.222 $\pm$ 0.002 χ^2 /NDF: 27592.4/67

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18132.1/54

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:21552.6/60

All: 0.137 $\pm$ 0.001 χ^2 /NDF: 39784.3/115

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.659 $\pm$ 0.048 χ^2 /NDF: 26686.6/14

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.286 $\pm$ 0.046 χ^2 /NDF: 27242.6/16

Left In: -16.934 $\pm$ 0.038 χ^2 /NDF: 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2 /NDF: 132843.0/47

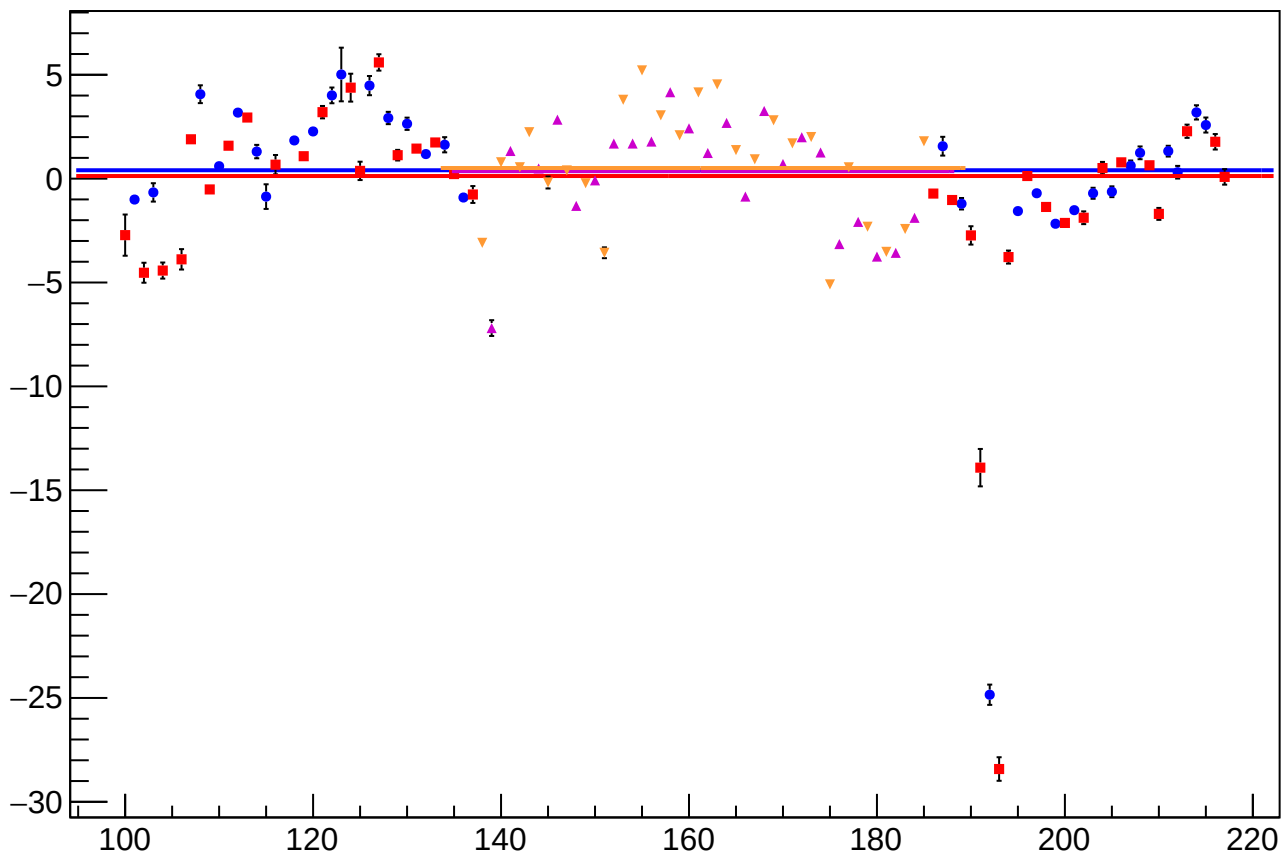
Right: 5.465 $\pm$ 0.033 χ^2 /NDF: 53960.4/31

In: -8.293 $\pm$ 0.030 χ^2 /NDF: 206648.6/37

Out: -8.412 $\pm$ 0.030 χ^2 /NDF: 265276.2/41

All: -8.353 $\pm$ 0.021 χ^2 /NDF: 471932.9/79

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.404 $\pm$ 0.046 χ^2 /NDF: 4090.5/31

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.126 $\pm$ 0.043 χ^2 /NDF: 4534.6/35

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

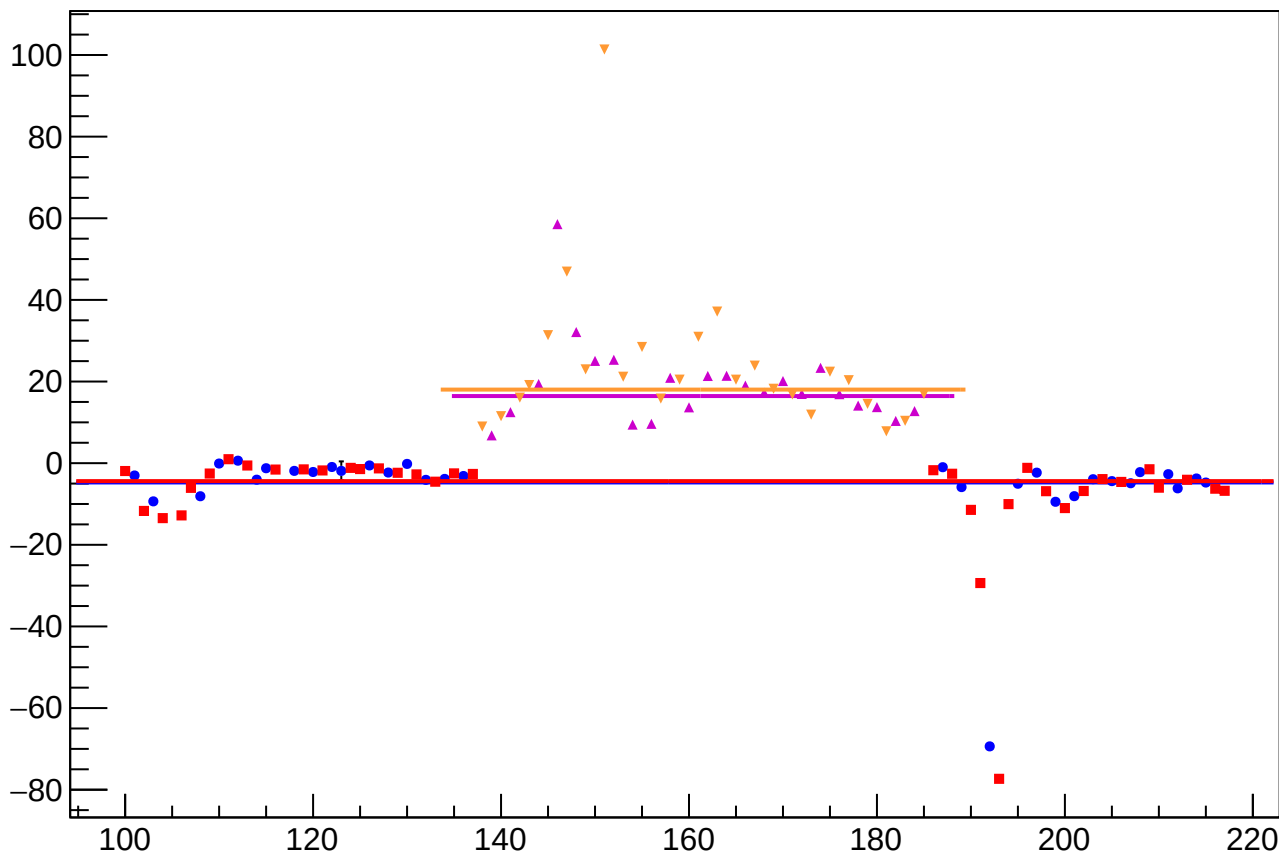
Right: 0.257 $\pm$ 0.032 χ^2 /NDF: 8644.5/67

In: 0.373 $\pm$ 0.025 χ^2 /NDF: 10312.2/54

Out: 0.375 $\pm$ 0.026 χ^2 /NDF: 11655.9/60

All: 0.374 $\pm$ 0.018 χ^2 /NDF: 21968.1/115

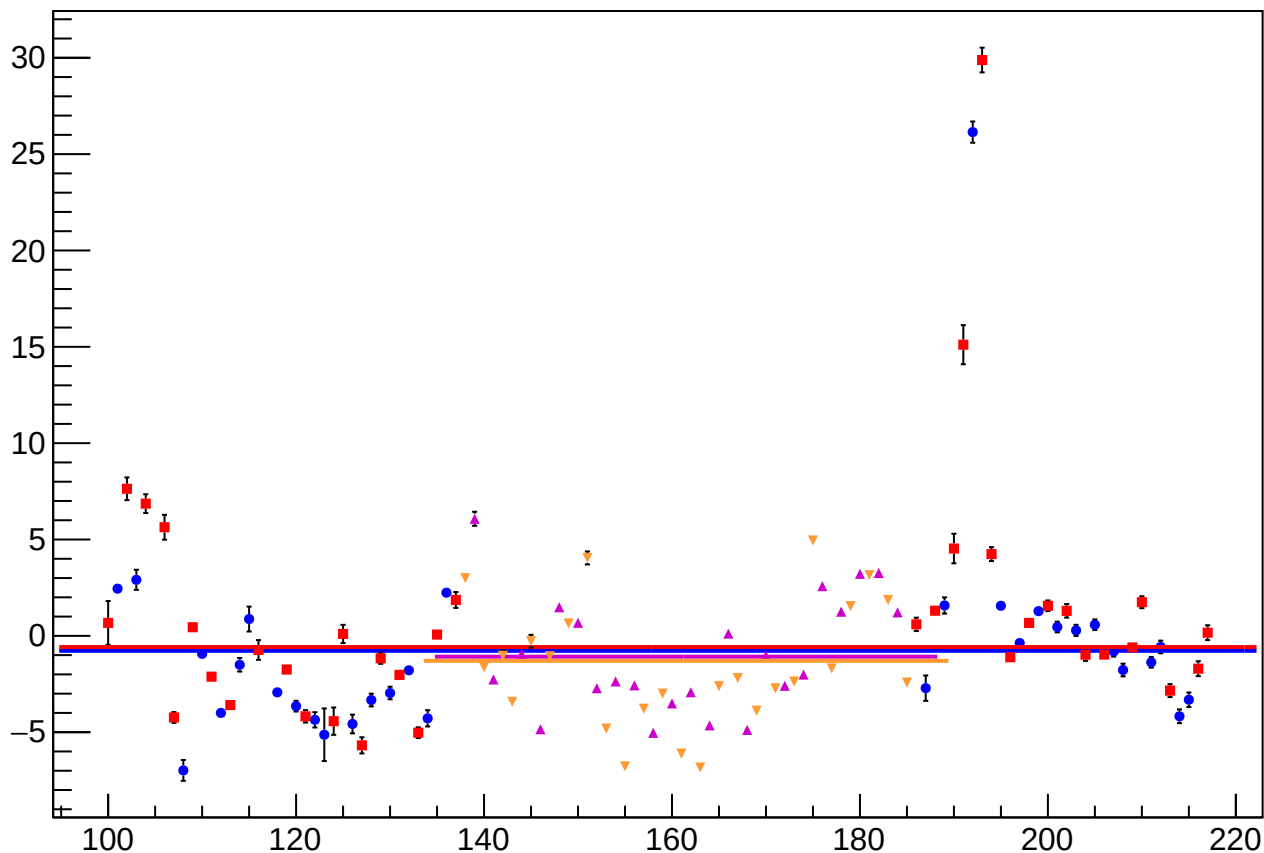
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.723 ± 0.043 $\chi^2/\text{NDF}: 27593.9/31$
 Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$
 Right Out: -4.397 ± 0.039 $\chi^2/\text{NDF}: 28904.0/35$
 Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$
 Right: -4.547 ± 0.029 $\chi^2/\text{NDF}: 56529.7/67$
 In: 7.183 ± 0.028 $\chi^2/\text{NDF}: 207682.1/54$
 Out: 6.955 ± 0.028 $\chi^2/\text{NDF}: 271367.7/60$
 All: 7.067 ± 0.020 $\chi^2/\text{NDF}: 479083.3/115$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

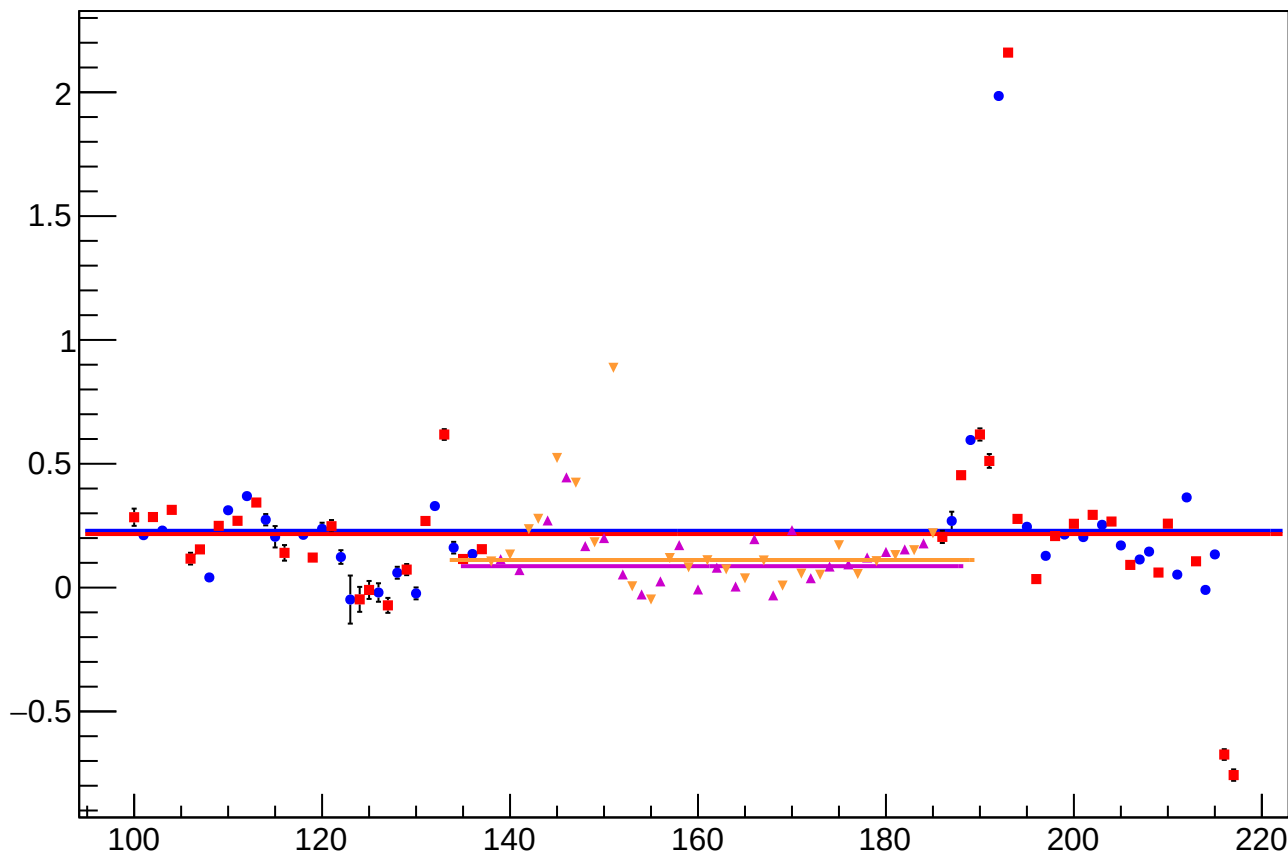


Right In: -0.775 ± 0.053 χ^2/NDF : 4186.2/31
 Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24
 Right Out: -0.582 ± 0.050 χ^2/NDF : 4738.9/35
 Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47
 Right: -0.674 ± 0.036 χ^2/NDF : 8932.2/67
 In: -0.992 ± 0.029 χ^2/NDF : 10934.3/54
 Out: -1.056 ± 0.029 χ^2/NDF : 12799.5/60

All: -1.023 ± 0.020 χ^2/NDF : 23736.3/115

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.229 $\pm$ 0.002 χ^2 /NDF: 12004.2/31

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.216 $\pm$ 0.002 χ^2 /NDF: 15846.0/35

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3625.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8251.9/47

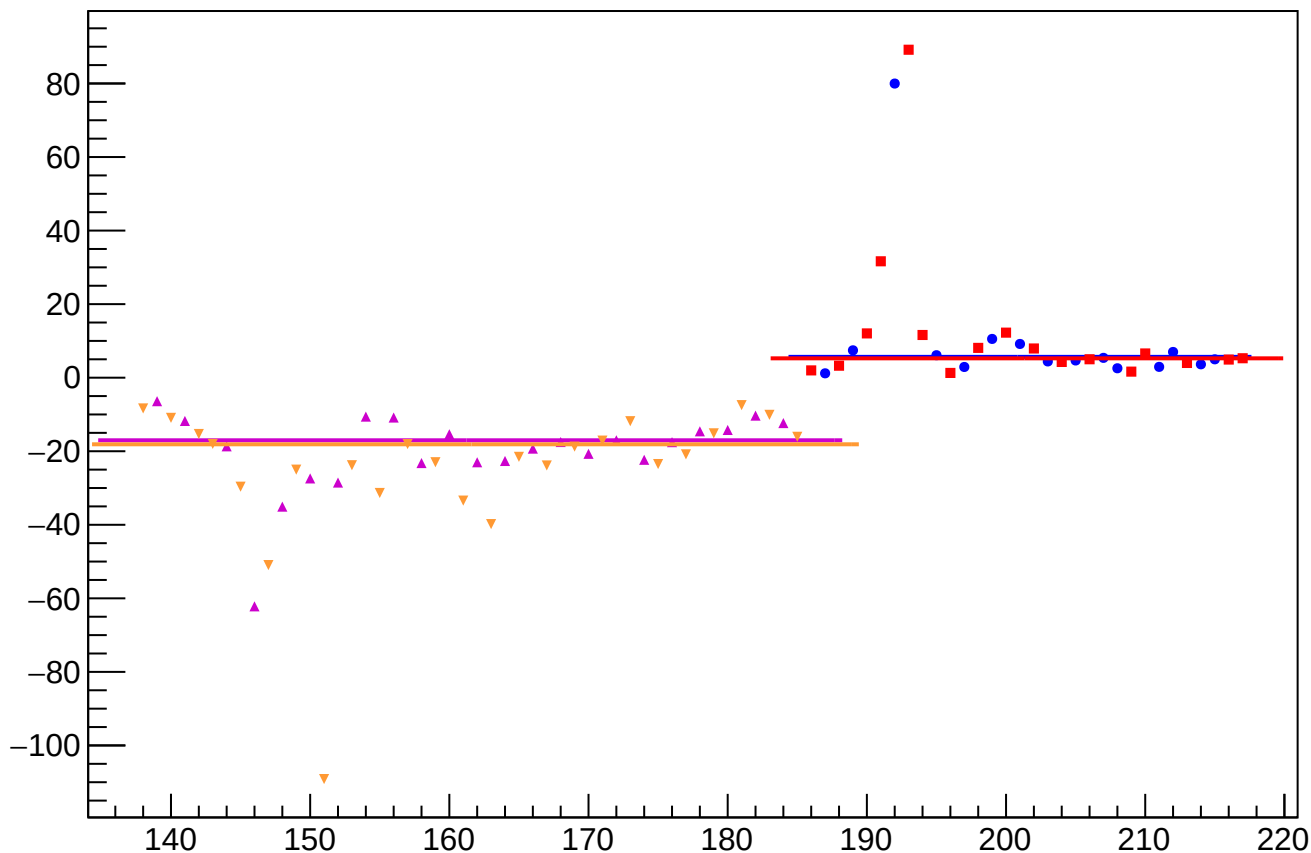
Right: 0.223 $\pm$ 0.002 χ^2 /NDF: 27866.6/67

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18281.1/54

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:21760.3/60

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 40139.0/115

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.661 $\pm$ 0.048 χ^2 /NDF: 26681.8/14

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 5.261 $\pm$ 0.046 χ^2 /NDF: 27264.0/16

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF: 44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

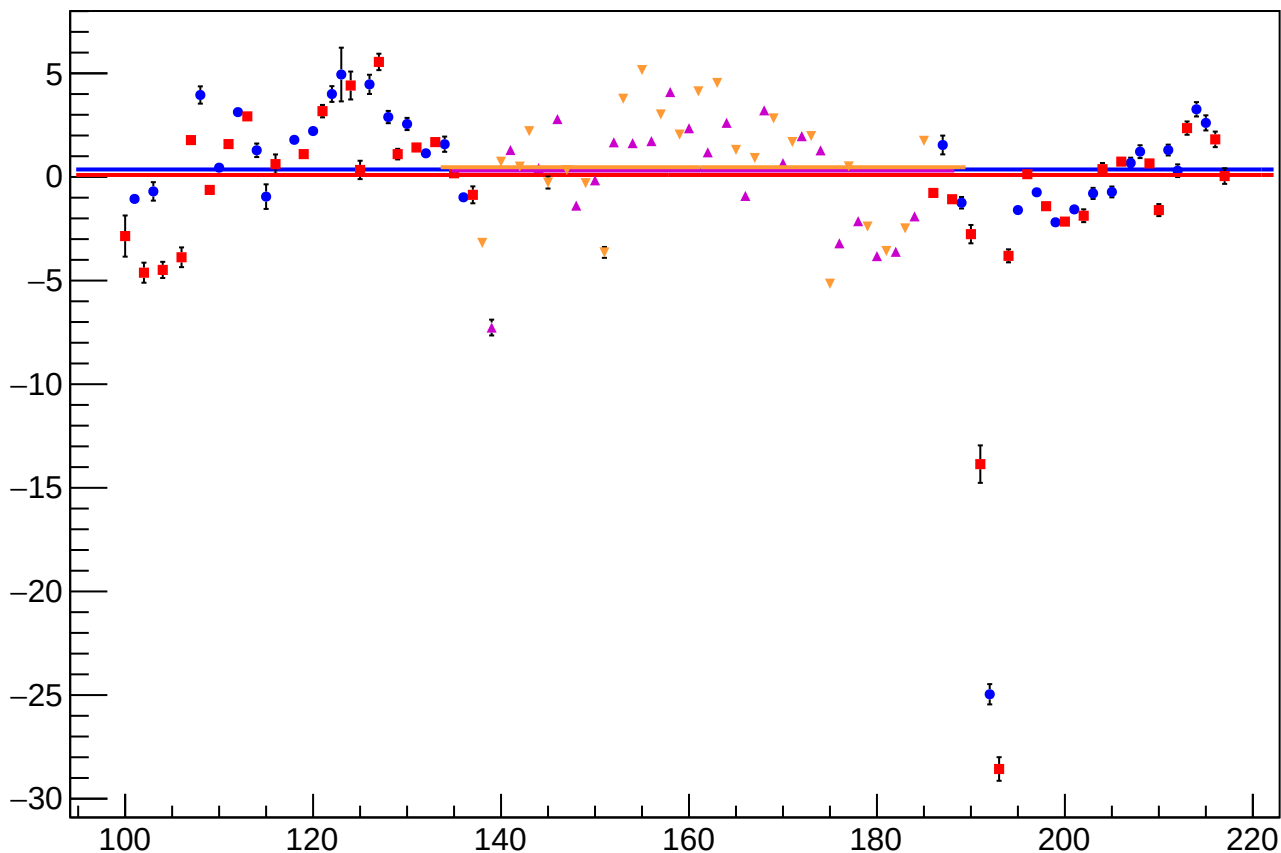
Right: 5.452 $\pm$ 0.034 χ^2 /NDF: 53981.2/31

In: -8.379 $\pm$ 0.030 χ^2 /NDF: 206281.8/37

Out: -8.493 $\pm$ 0.030 χ^2 /NDF: 265100.0/41

All: -8.436 $\pm$ 0.021 χ^2 /NDF: 471389.1/79

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.361 ± 0.046 χ^2/NDF : 4085.7/31

Left Out: 0.469 ± 0.032 χ^2/NDF : 7093.0/24

Right Out: 0.095 ± 0.044 χ^2/NDF : 4527.4/35

Left In: 0.311 ± 0.031 χ^2/NDF : 6183.1/22

Left: 0.386 ± 0.022 χ^2/NDF : 13288.8/47

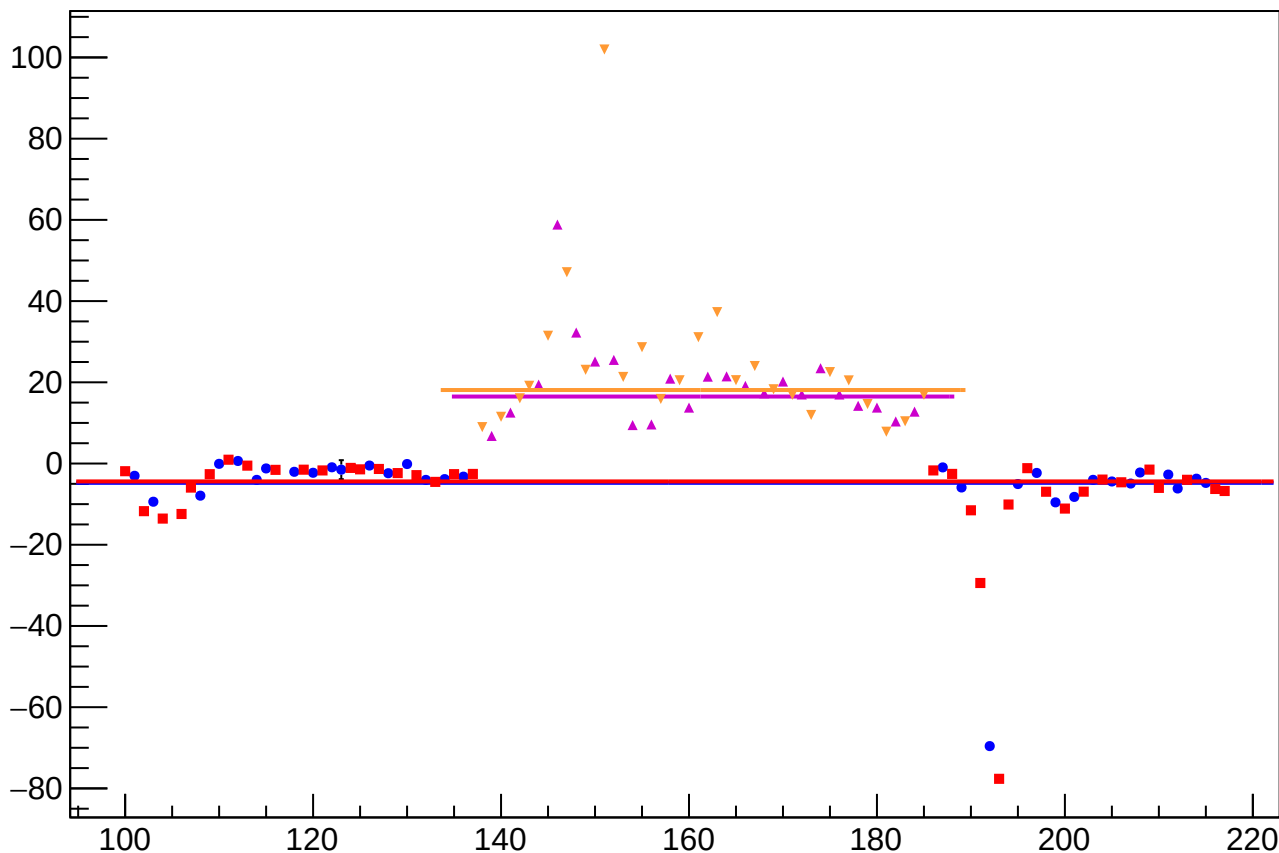
Right: 0.221 ± 0.032 χ^2/NDF : 8630.7/67

In: 0.326 ± 0.026 χ^2/NDF : 10269.6/54

Out: 0.337 ± 0.026 χ^2/NDF : 11668.0/60

All: 0.331 ± 0.018 χ^2/NDF : 21937.7/115

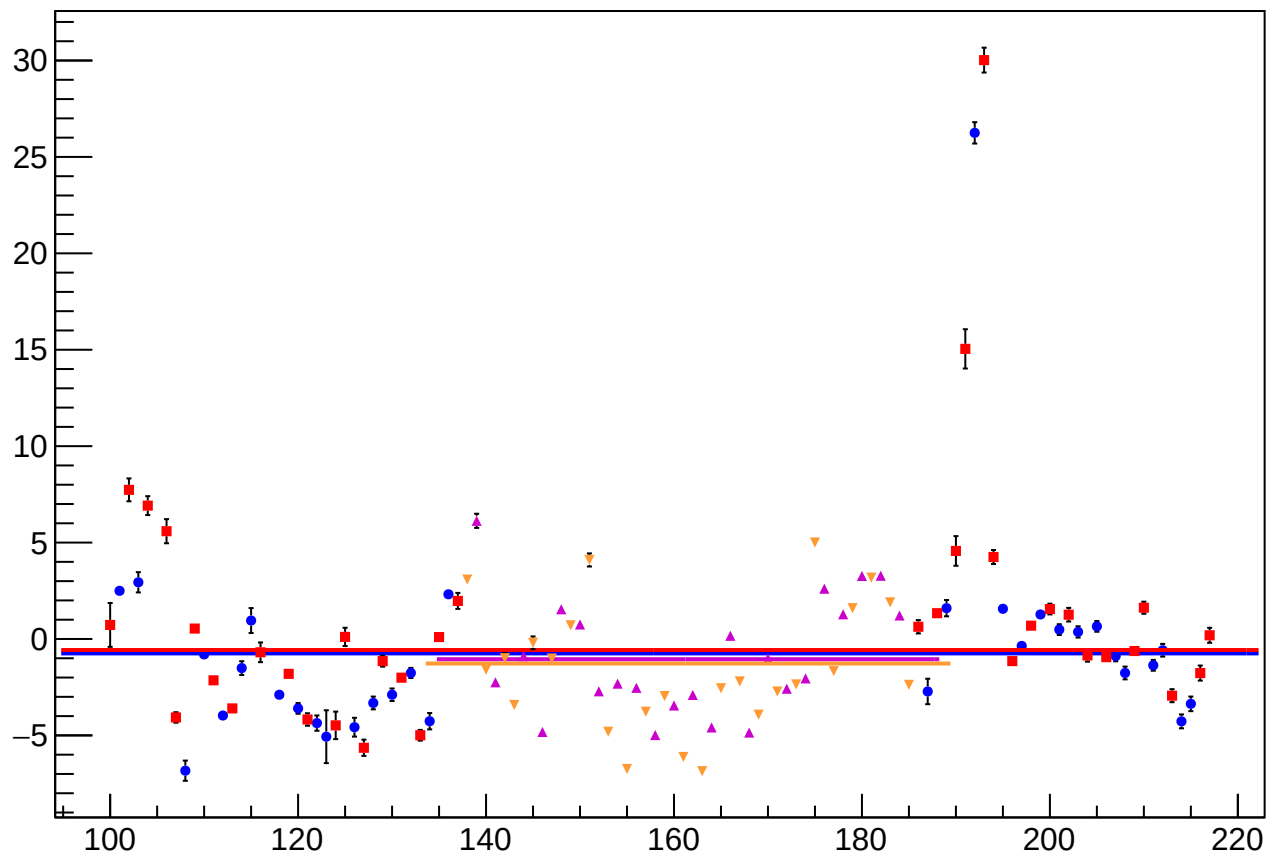
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.753 ± 0.043 $\chi^2/\text{NDF}: 27587.9/31$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.404 ± 0.039 $\chi^2/\text{NDF}: 28907.7/35$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.564 ± 0.029 $\chi^2/\text{NDF}: 56531.5/67$
 In: 7.228 ± 0.028 $\chi^2/\text{NDF}: 207344.7/54$
 Out: 6.989 ± 0.028 $\chi^2/\text{NDF}: 271260.2/60$
 All: 7.106 ± 0.020 $\chi^2/\text{NDF}: 478641.5/115$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

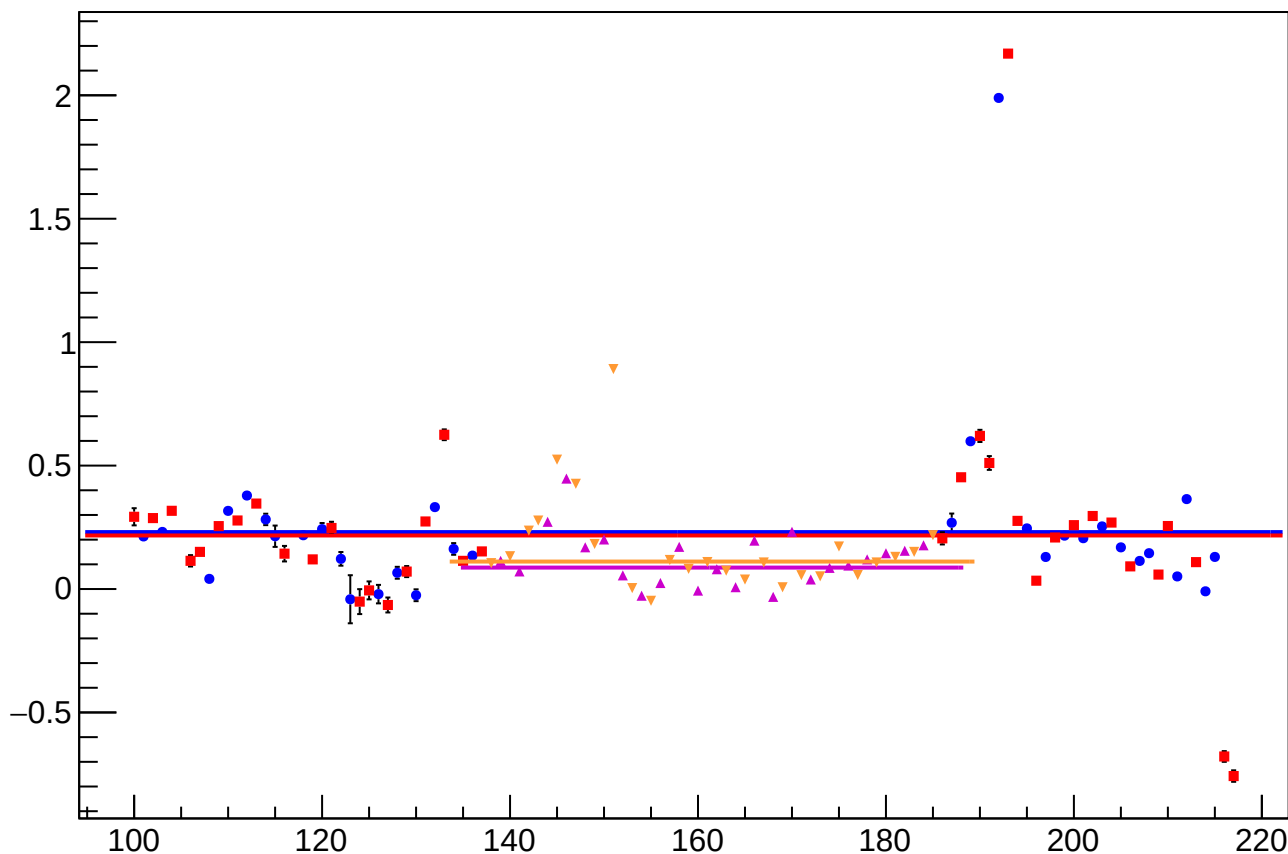


Right In: -0.748 ± 0.053 χ^2/NDF : 4186.5/31
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.572 ± 0.050 χ^2/NDF : 4733.2/35
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.655 ± 0.036 χ^2/NDF : 8925.6/67
 In: -0.962 ± 0.029 χ^2/NDF : 10883.0/54
 Out: -1.037 ± 0.029 χ^2/NDF : 12814.0/60

All: -0.999 ± 0.020 χ^2/NDF : 23700.4/115

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.231 $\pm$ 0.002 χ^2 /NDF: 12001.5/31

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.217 $\pm$ 0.002 χ^2 /NDF: 15834.9/35

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

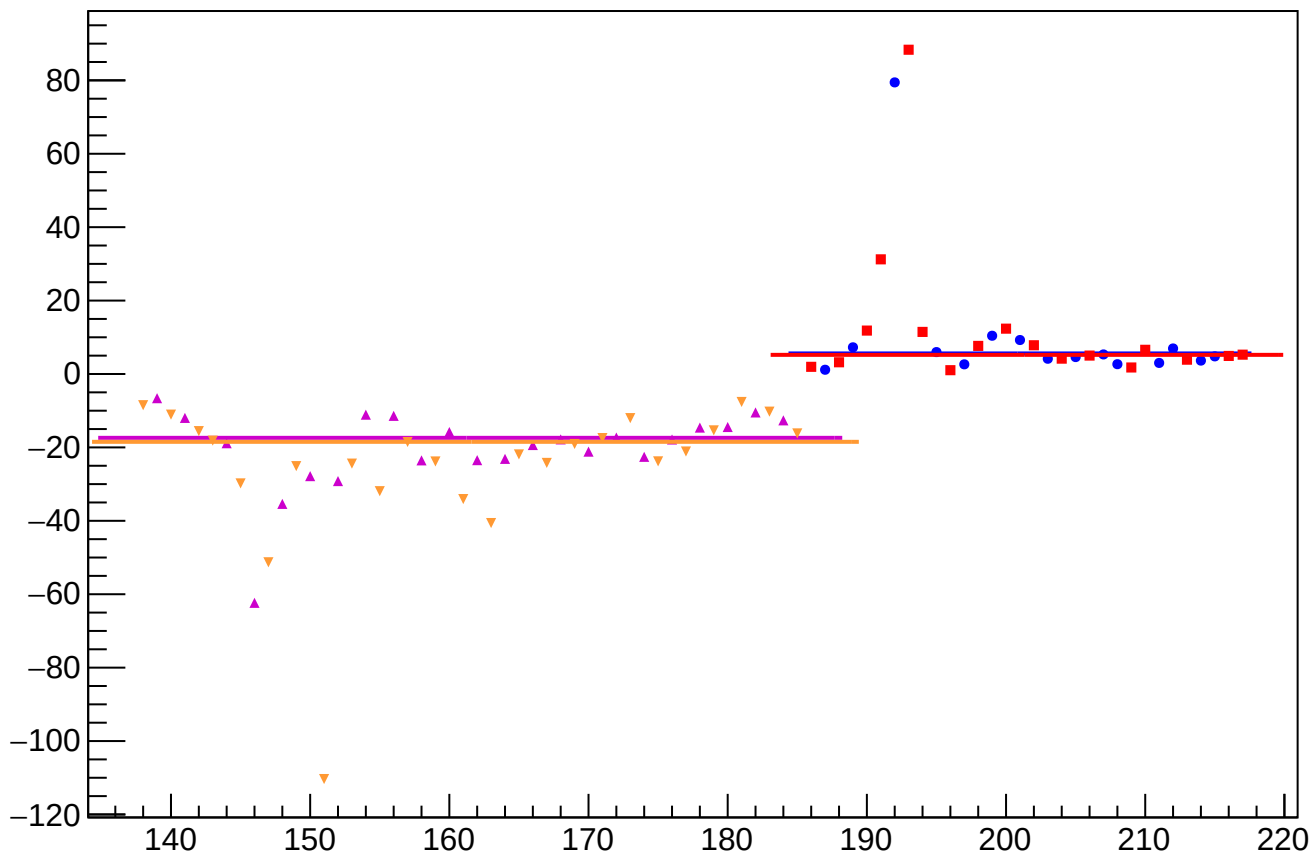
Right: 0.224 $\pm$ 0.002 χ^2 /NDF: 27853.8/67

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18257.2/54

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:21741.8/60

All: 0.137 $\pm$ 0.001 χ^2 /NDF: 40092.4/115

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.599 $\pm$ 0.049 χ^2 /NDF: 26203.2/14

Left Out: -18.479 $\pm$ 0.040 χ^2 /NDF: 87883.4/24

Right Out: 5.216 $\pm$ 0.047 χ^2 /NDF: 26683.2/16

Left In: -17.393 $\pm$ 0.039 χ^2 /NDF: 43178.9/22

Left: -17.926 $\pm$ 0.028 χ^2 /NDF: 131443.9/47

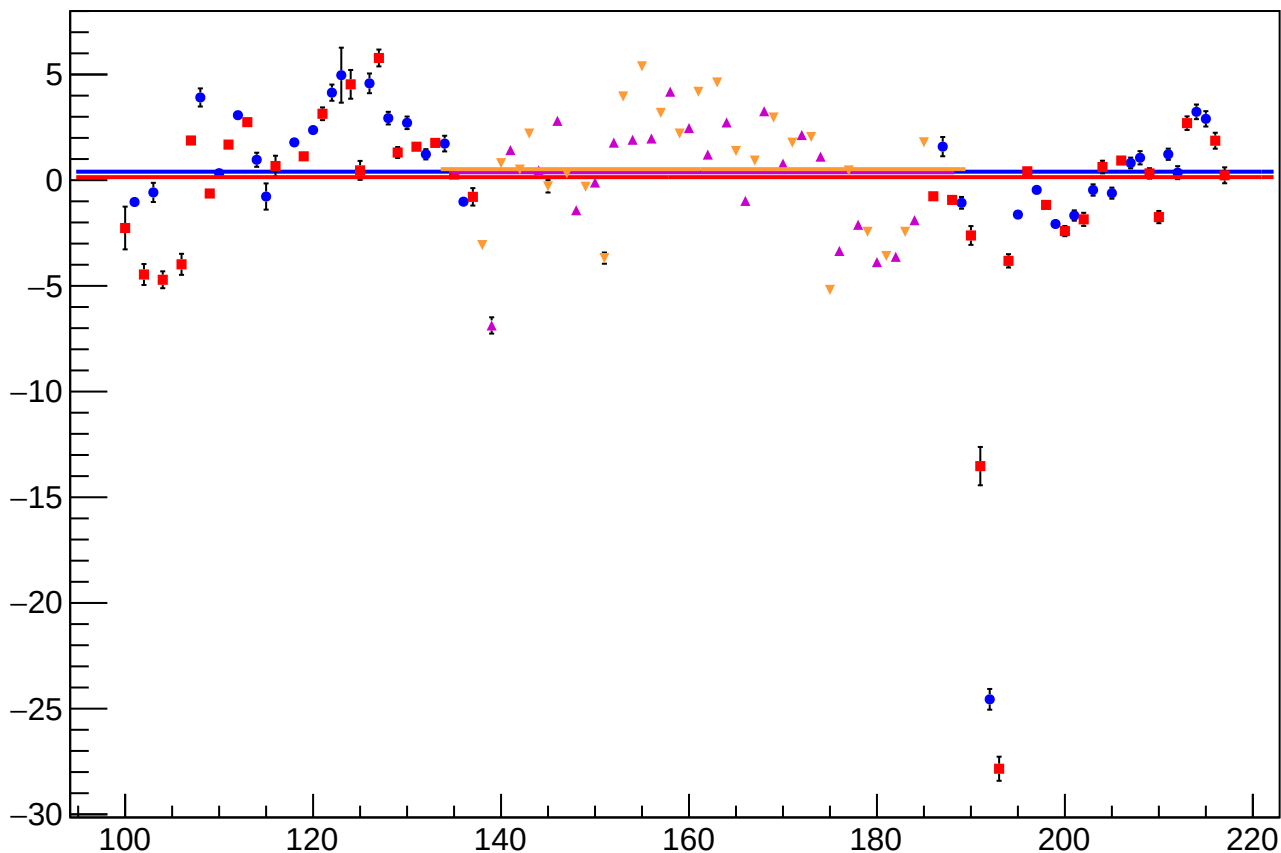
Right: 5.399 $\pm$ 0.034 χ^2 /NDF: 52918.7/31

In: -8.428 $\pm$ 0.030 χ^2 /NDF: 205178.7/37

Out: -8.513 $\pm$ 0.030 χ^2 /NDF: 264394.2/41

All: -8.471 $\pm$ 0.021 χ^2 /NDF: 469576.8/79

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.402 ± 0.047 $\chi^2/\text{NDF}: 3954.1/31$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.143 ± 0.044 $\chi^2/\text{NDF}: 4387.7/35$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

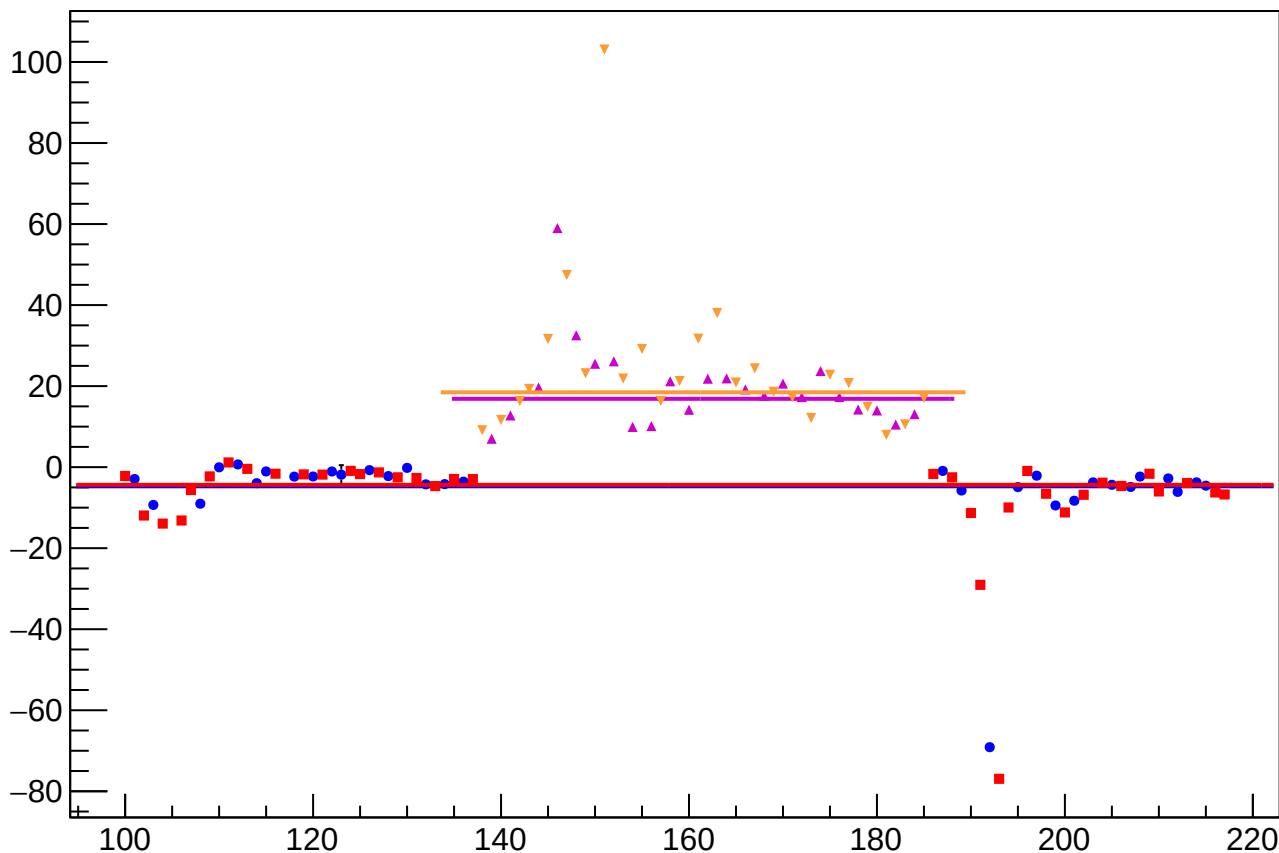
Right: 0.265 ± 0.032 $\chi^2/\text{NDF}: 8357.8/67$

In: 0.381 ± 0.026 $\chi^2/\text{NDF}: 10171.8/54$

Out: 0.386 ± 0.026 $\chi^2/\text{NDF}: 11489.8/60$

All: 0.383 ± 0.019 $\chi^2/\text{NDF}: 21661.6/115$

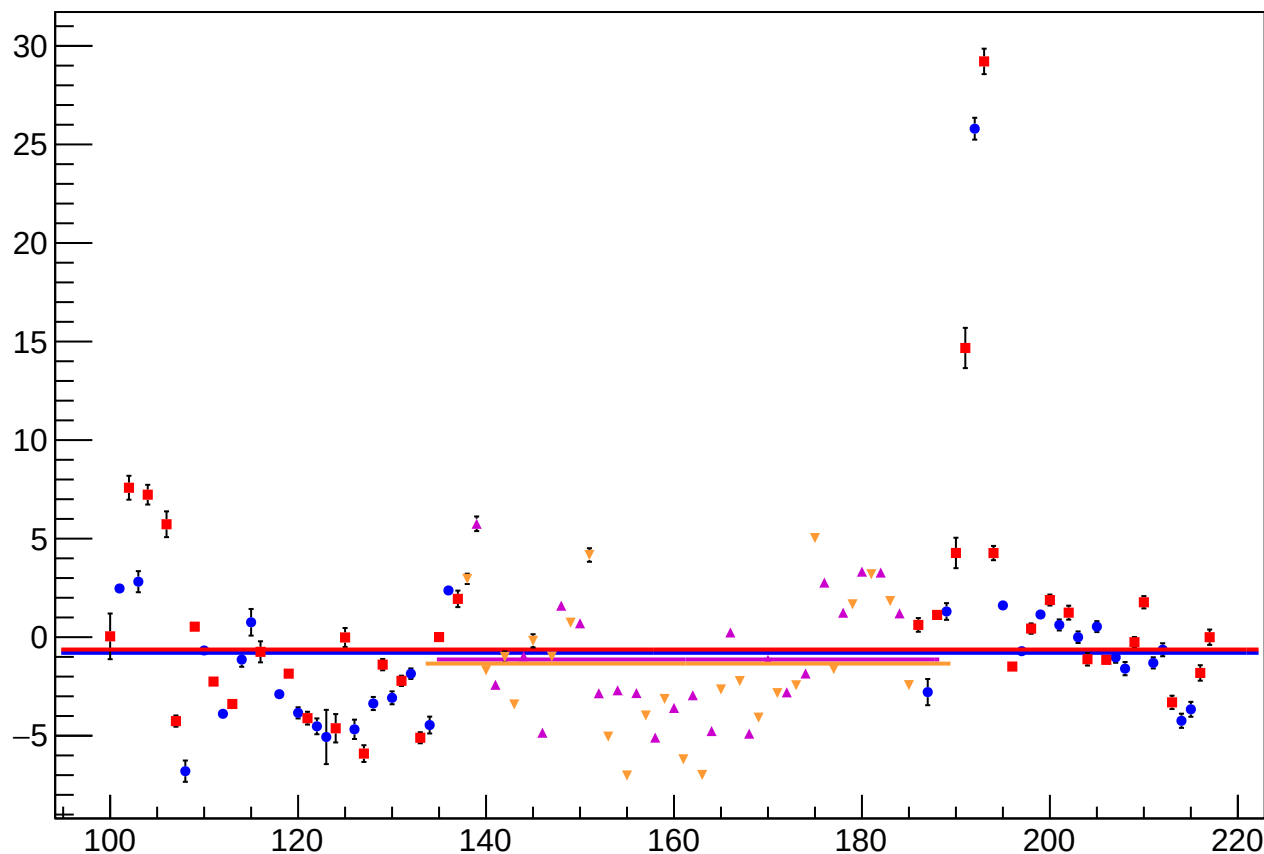
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.726 ± 0.043 $\chi^2/\text{NDF}: 27076.0/31$
 Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$
 Right Out: -4.369 ± 0.040 $\chi^2/\text{NDF}: 28353.9/35$
 Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$
 Right: -4.533 ± 0.029 $\chi^2/\text{NDF}: 55467.2/67$
 In: 7.270 ± 0.029 $\chi^2/\text{NDF}: 206179.9/54$
 Out: 7.009 ± 0.028 $\chi^2/\text{NDF}: 270059.8/60$
 All: 7.137 ± 0.020 $\chi^2/\text{NDF}: 476281.9/115$

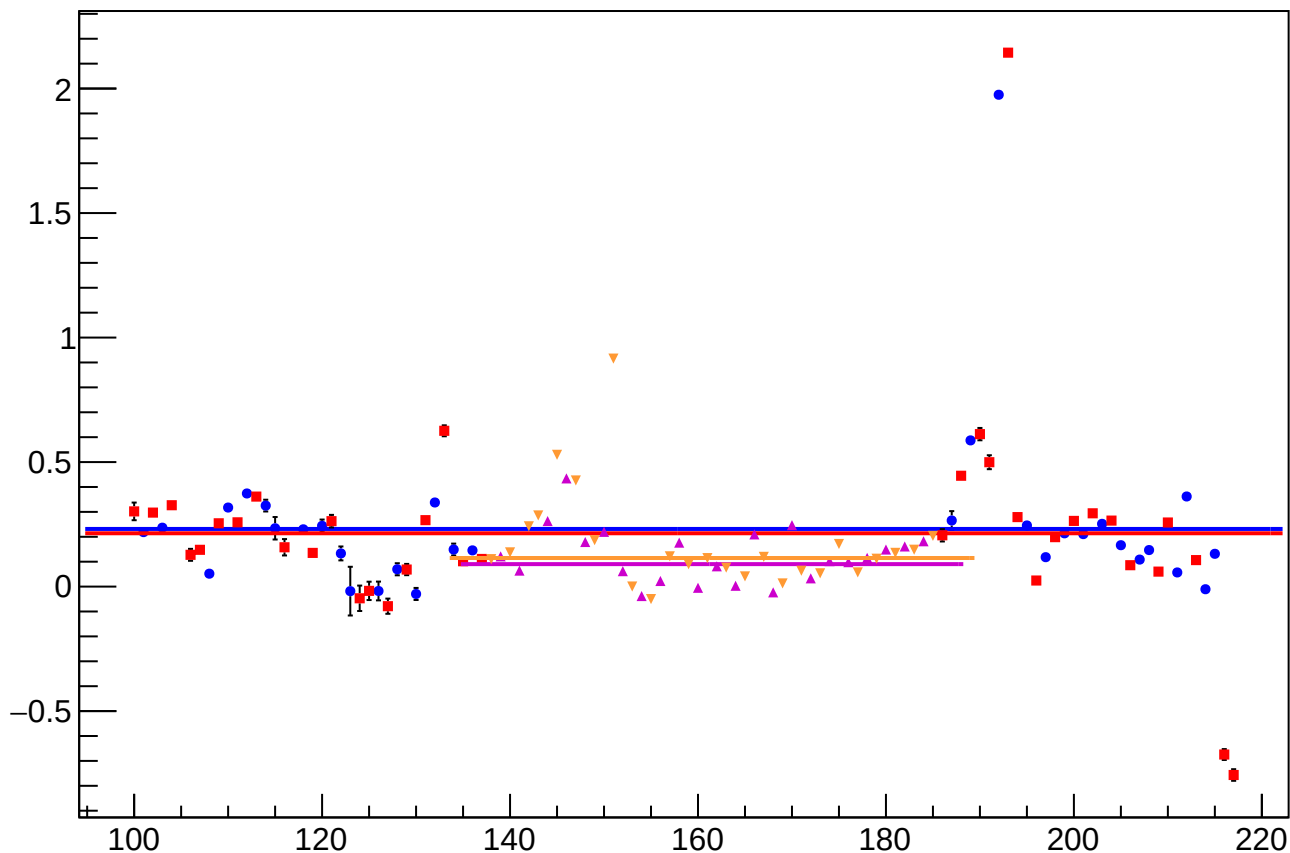
reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.793 ± 0.054 $\chi^2/\text{NDF}: 4071.4/31$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.627 ± 0.051 $\chi^2/\text{NDF}: 4604.0/35$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.706 ± 0.037 $\chi^2/\text{NDF}: 8680.4/67$
 In: -1.031 ± 0.029 $\chi^2/\text{NDF}: 10808.0/54$
 Out: -1.097 ± 0.030 $\chi^2/\text{NDF}: 12640.9/60$
 All: -1.063 ± 0.021 $\chi^2/\text{NDF}: 23451.4/115$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



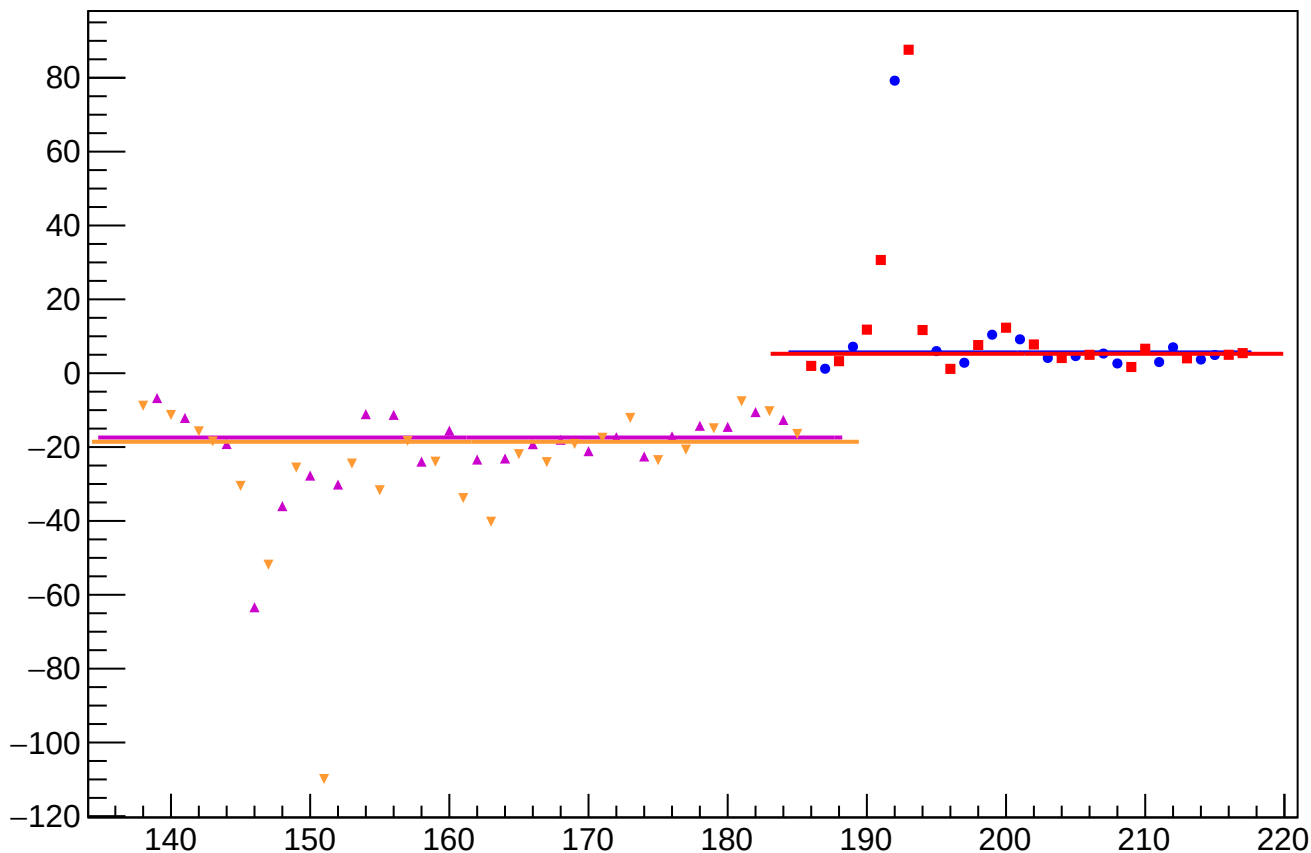
Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47
 Right: 0.223 $\pm$ 0.002 χ^2 /NDF: 27392.5/67

Right In: 0.231 $\pm$ 0.002 χ^2 /NDF: 11742.0/31
 Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF: 4431.9/24
 Right Out: 0.214 $\pm$ 0.002 χ^2 /NDF: 15623.2/35
 Left In: 0.090 $\pm$ 0.002 χ^2 /NDF: 3676.5/22

In: 0.132 $\pm$ 0.001 χ^2 /NDF: 17912.8/54
 Out: 0.148 $\pm$ 0.001 χ^2 /NDF: 21284.7/60

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 39271.7/115

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.633 $\pm$ 0.049 χ^2 /NDF: 25705.0/14

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24

Right Out: 5.261 $\pm$ 0.047 χ^2 /NDF: 26050.5/16

Left In: -17.414 $\pm$ 0.039 χ^2 /NDF: 43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47

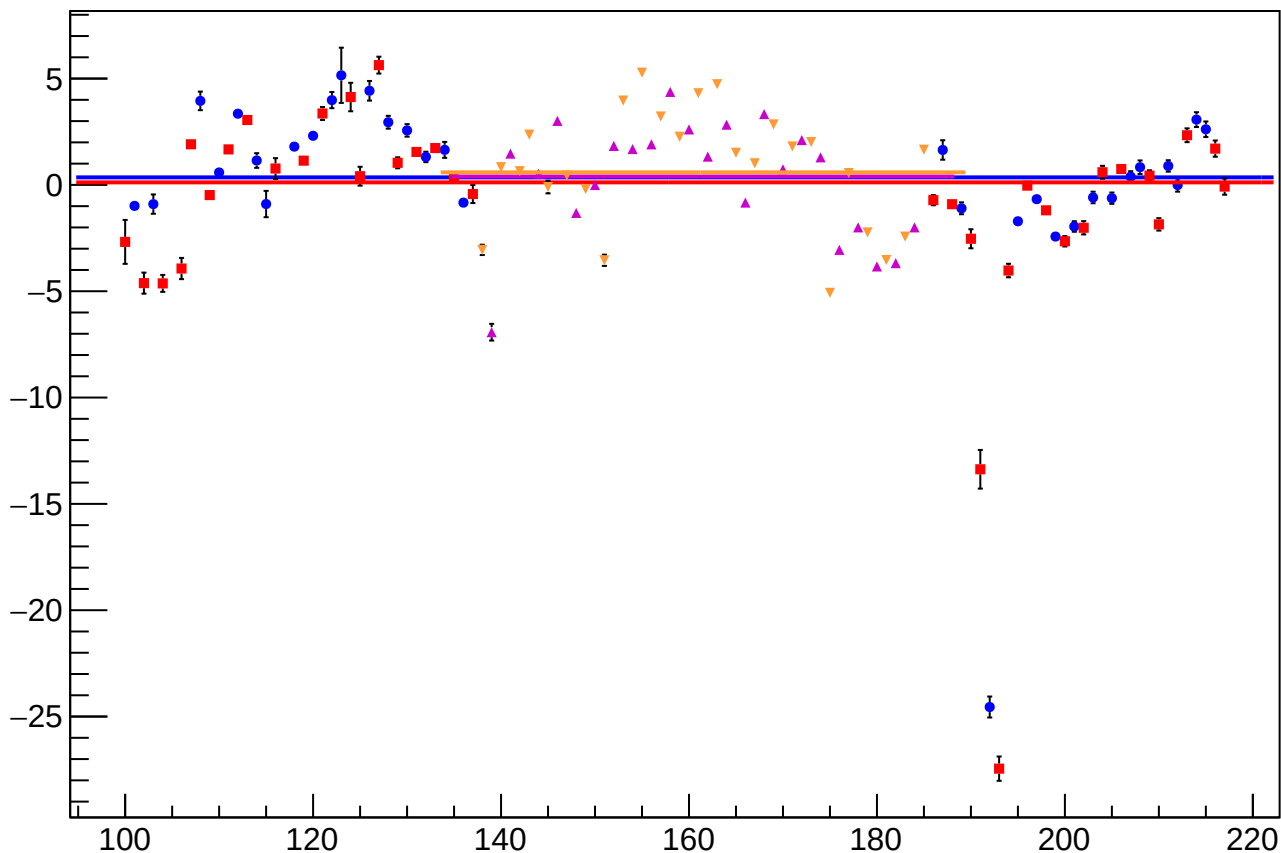
Right: 5.439 $\pm$ 0.034 χ^2 /NDF: 51785.2/31

In: -8.457 $\pm$ 0.031 χ^2 /NDF: 202857.9/37

Out: -8.575 $\pm$ 0.031 χ^2 /NDF: 260505.7/41

All: -8.516 $\pm$ 0.022 χ^2 /NDF: 463371.0/79

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.354 $\pm$ 0.047 χ^2 /NDF: 3969.6/31

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF:6796.5/24

Right Out: 0.119 $\pm$ 0.045 χ^2 /NDF: 4324.1/35

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF:6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

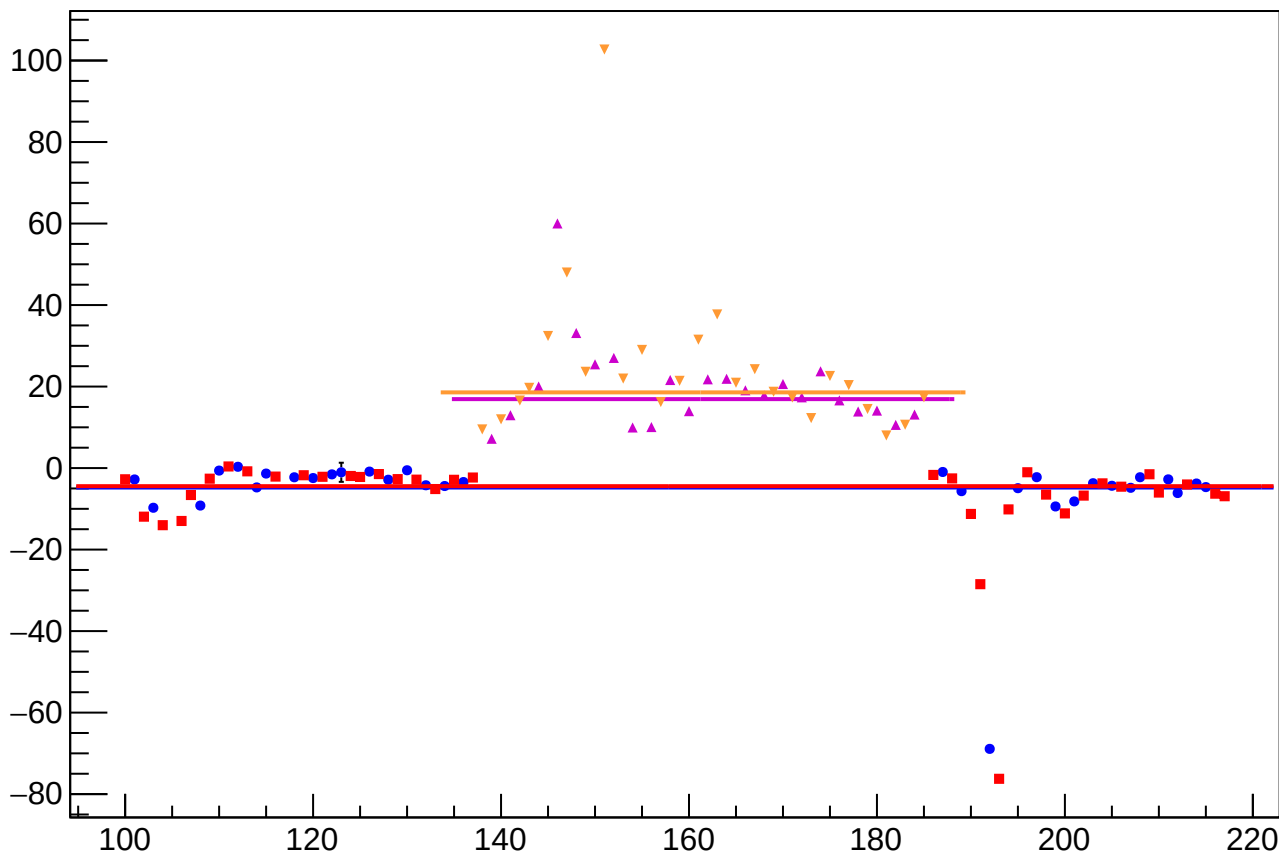
Right: 0.230 $\pm$ 0.032 χ^2 /NDF: 8306.7/67

In: 0.382 $\pm$ 0.026 χ^2 /NDF:10029.9/54

Out: 0.423 $\pm$ 0.027 χ^2 /NDF:11192.1/60

All: 0.402 $\pm$ 0.019 χ^2 /NDF: 21223.2/115

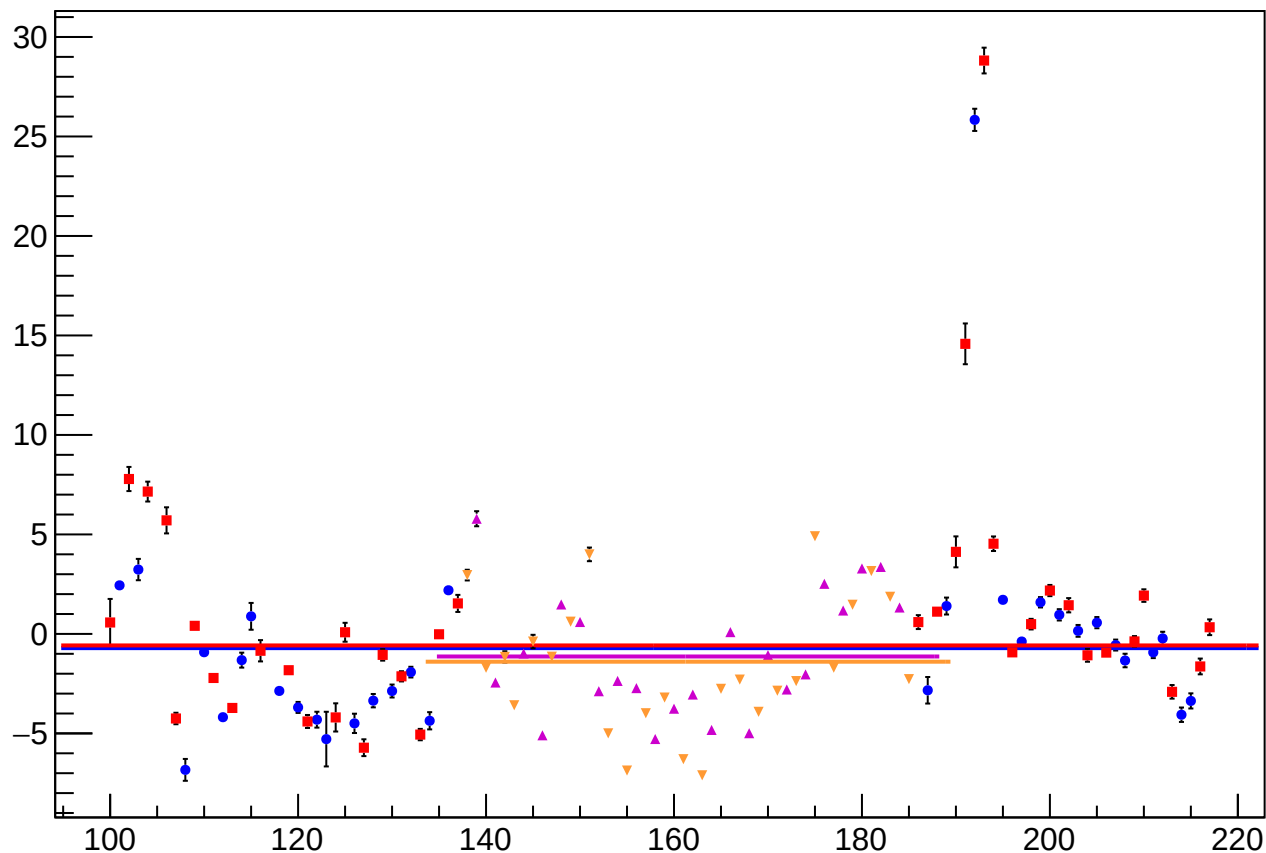
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.770 ± 0.044 $\chi^2/\text{NDF}: 26412.7/31$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.441 ± 0.040 $\chi^2/\text{NDF}: 27496.2/35$
 Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$
 Right: -4.592 ± 0.030 $\chi^2/\text{NDF}: 53939.7/67$
 In: 7.314 ± 0.029 $\chi^2/\text{NDF}: 204180.7/54$
 Out: 7.080 ± 0.028 $\chi^2/\text{NDF}: 266708.5/60$
 All: 7.195 ± 0.020 $\chi^2/\text{NDF}: 470922.4/115$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

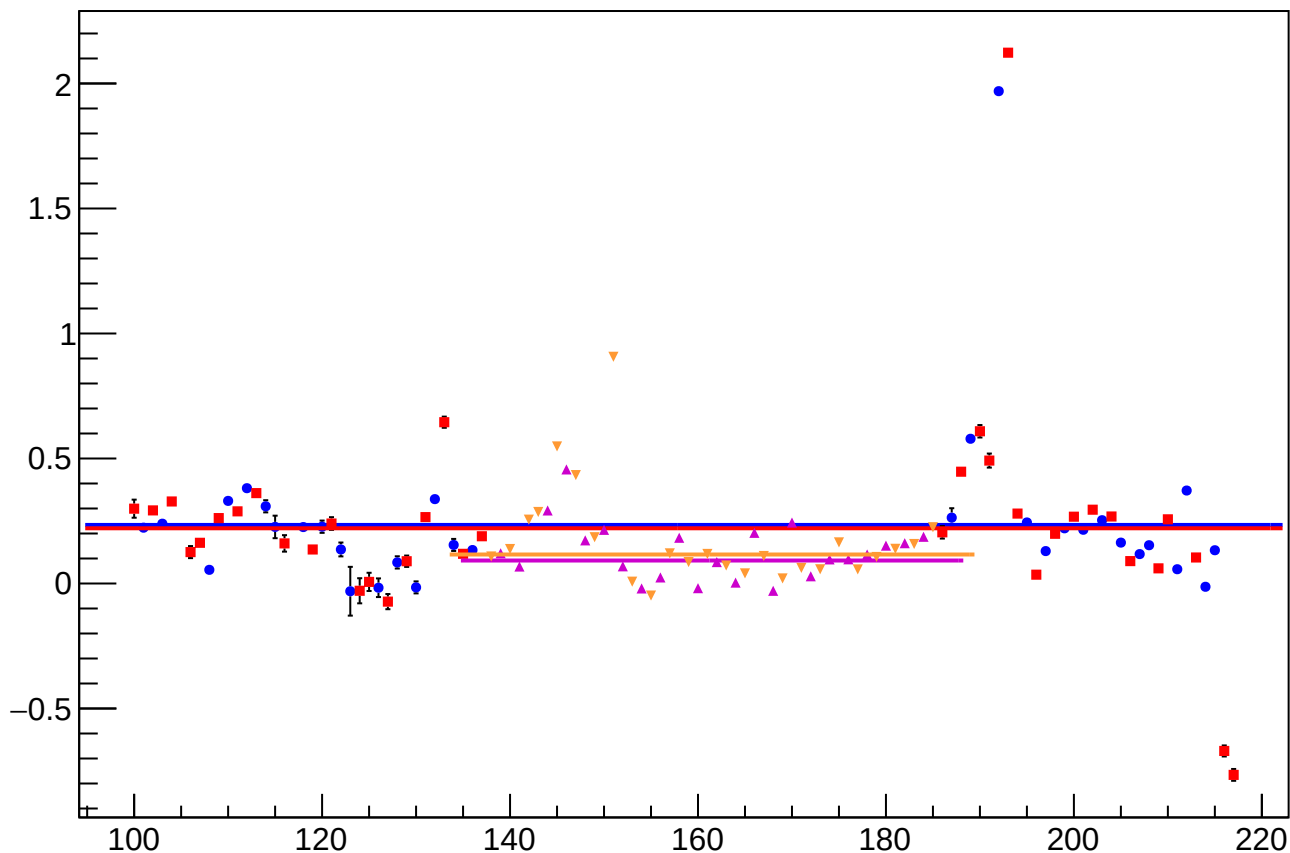


Right In: -0.714 ± 0.054 $\chi^2/\text{NDF}: 4046.1/31$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.579 ± 0.052 $\chi^2/\text{NDF}: 4530.0/35$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.643 ± 0.037 $\chi^2/\text{NDF}: 8579.3/67$
 In: -1.010 ± 0.030 $\chi^2/\text{NDF}: 10686.1/54$
 Out: -1.120 ± 0.030 $\chi^2/\text{NDF}: 12347.4/60$

All: -1.064 ± 0.021 $\chi^2/\text{NDF}: 23040.3/115$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11487.5/31

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.221 $\pm$ 0.002 χ^2 /NDF: 15095.1/35

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

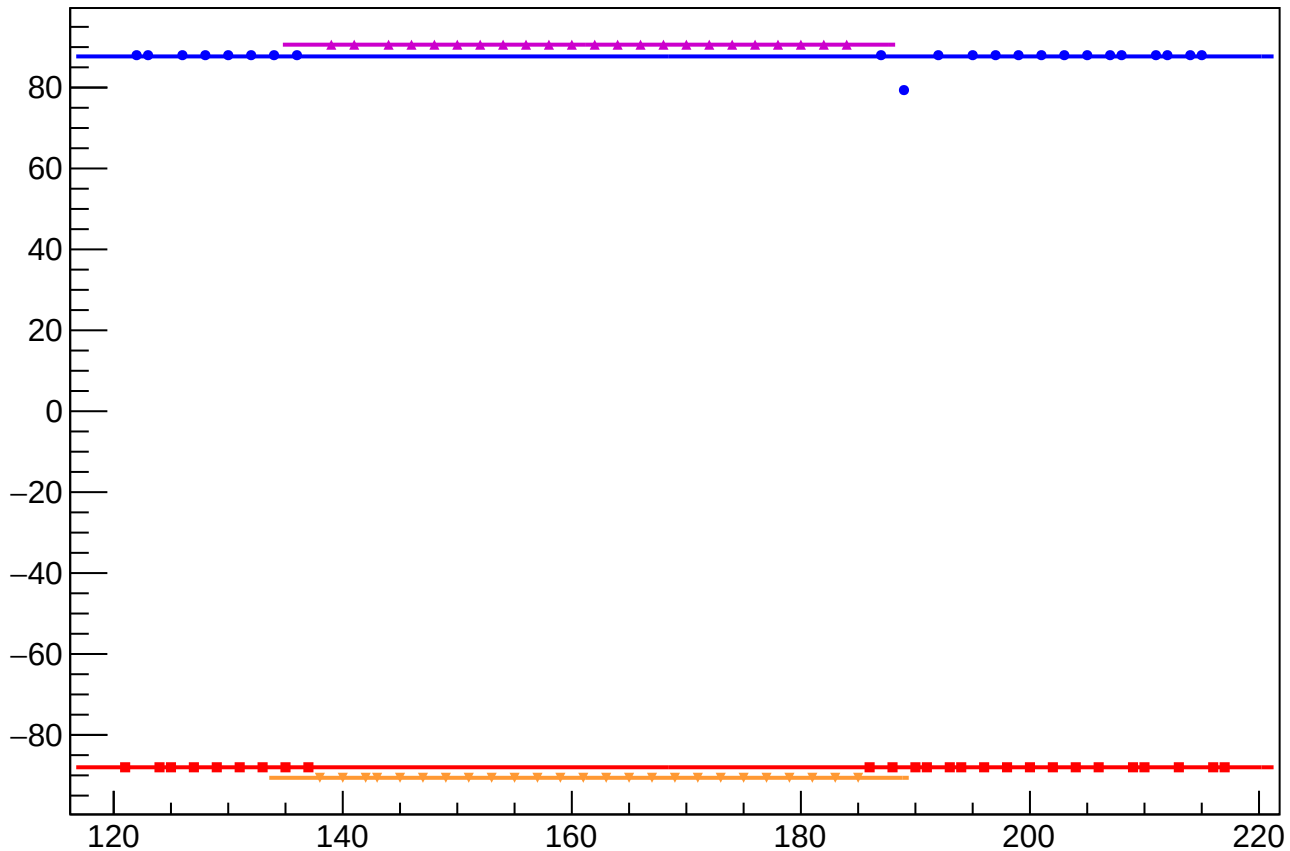
Right: 0.227 $\pm$ 0.002 χ^2 /NDF: 26598.5/67

In: 0.134 $\pm$ 0.001 χ^2 /NDF:17592.8/54

Out: 0.151 $\pm$ 0.001 χ^2 /NDF:20891.7/60

All: 0.142 $\pm$ 0.001 χ^2 /NDF: 38565.3/115

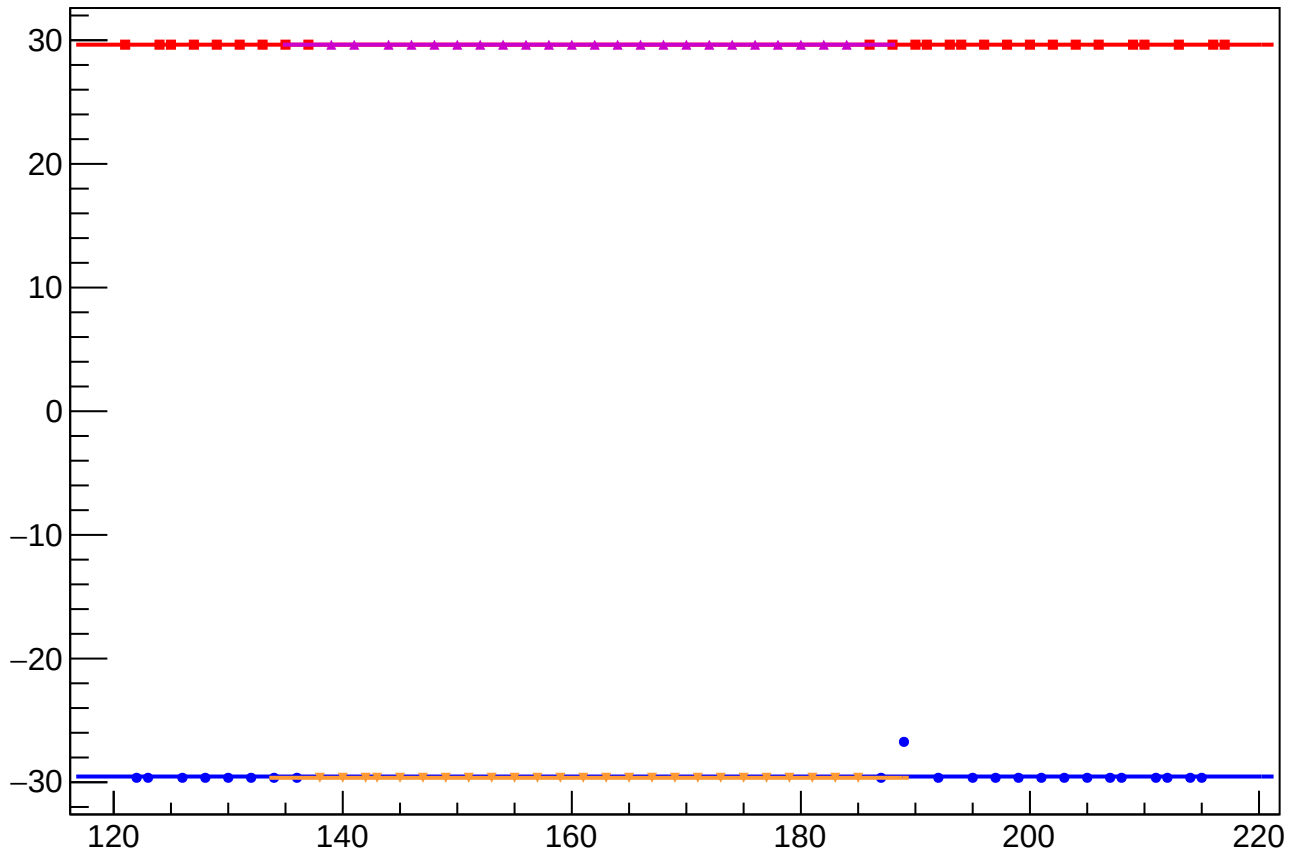
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.695 ± 0.000 χ^2/NDF : 3661599069917252979823036636069888.0/22
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 1353862.0/25
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -2.558 ± 0.000 χ^2/NDF : 2282186069563840
 In: 89.313 ± 0.000 χ^2/NDF : 104255118594206780
 Out: -89.448 ± 0.000 χ^2/NDF : 5715570872066604
 All: -2.476 ± 0.000 χ^2/NDF : 5334310964984

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.538 ± 0.000

χ^2/NDF : 415408623588403353104421952159744.0/22

Left: -0.789 ± 0.000

χ^2/NDF : 32668496095314519

Left Out: -29.641 ± 0.000

χ^2/NDF : 654199.2/24

Right: 0.861 ± 0.000

χ^2/NDF : 25891413992291526

Right Out: 29.641 ± 0.000

χ^2/NDF : 1555532.7/25

In: 3.438 ± 0.000

χ^2/NDF : 2808579945755485668

Out: -3.370 ± 0.000

χ^2/NDF : 29745401109740982

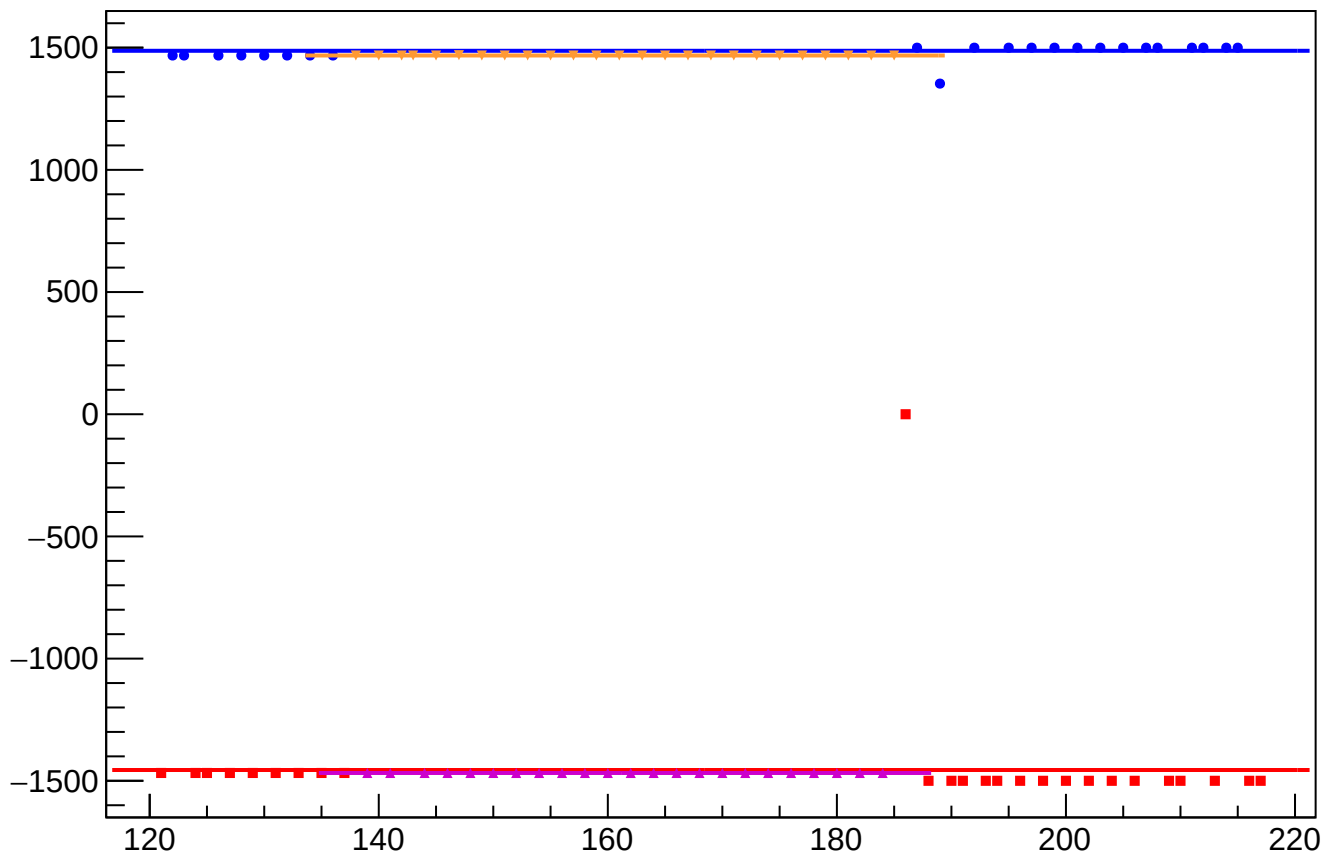
Left In: 29.641 ± 0.000

χ^2/NDF : 511825.6/22

All: -0.058 ± 0.000

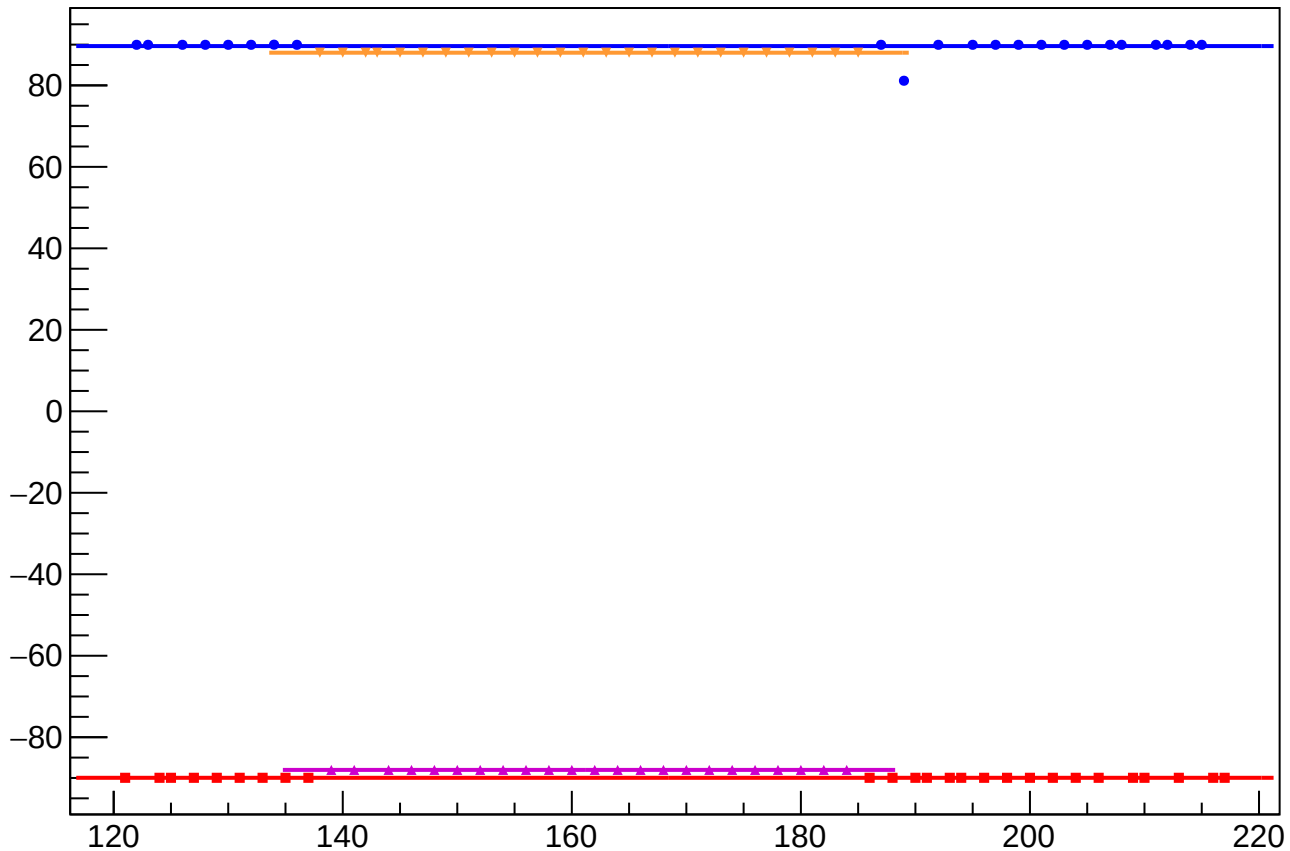
χ^2/NDF : 5860478894104

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.246+/-0.000 χ^2/NDF : 1216424397693142198653642175466700800.0/22
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1455.823+/-0.000 χ^2/NDF : 82857477992421764973188316416090046464.0/25
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 10.888+/-0.000 χ^2/NDF : 1450680190312

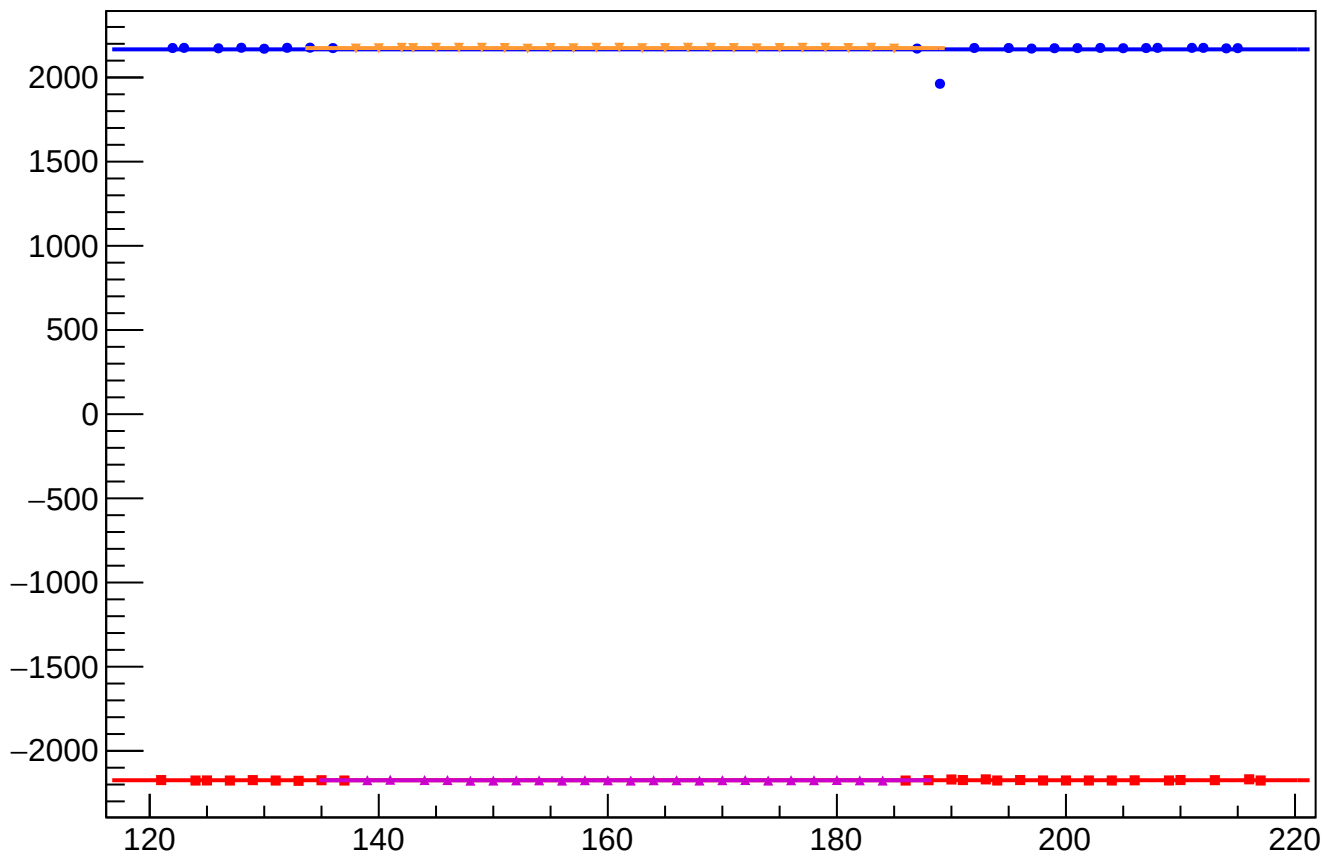
Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.647±/-0.000 χ^2/NDF : 3826858604425102603679380795293696.0/22
 Left Out: 88.021±/-0.000 χ^2/NDF : 5326388.8/24
 Right Out: -89.959±/-0.000 χ^2/NDF : 4351583.9/25
 Left In: -88.021±/-0.000 χ^2/NDF : 6084099.2/22

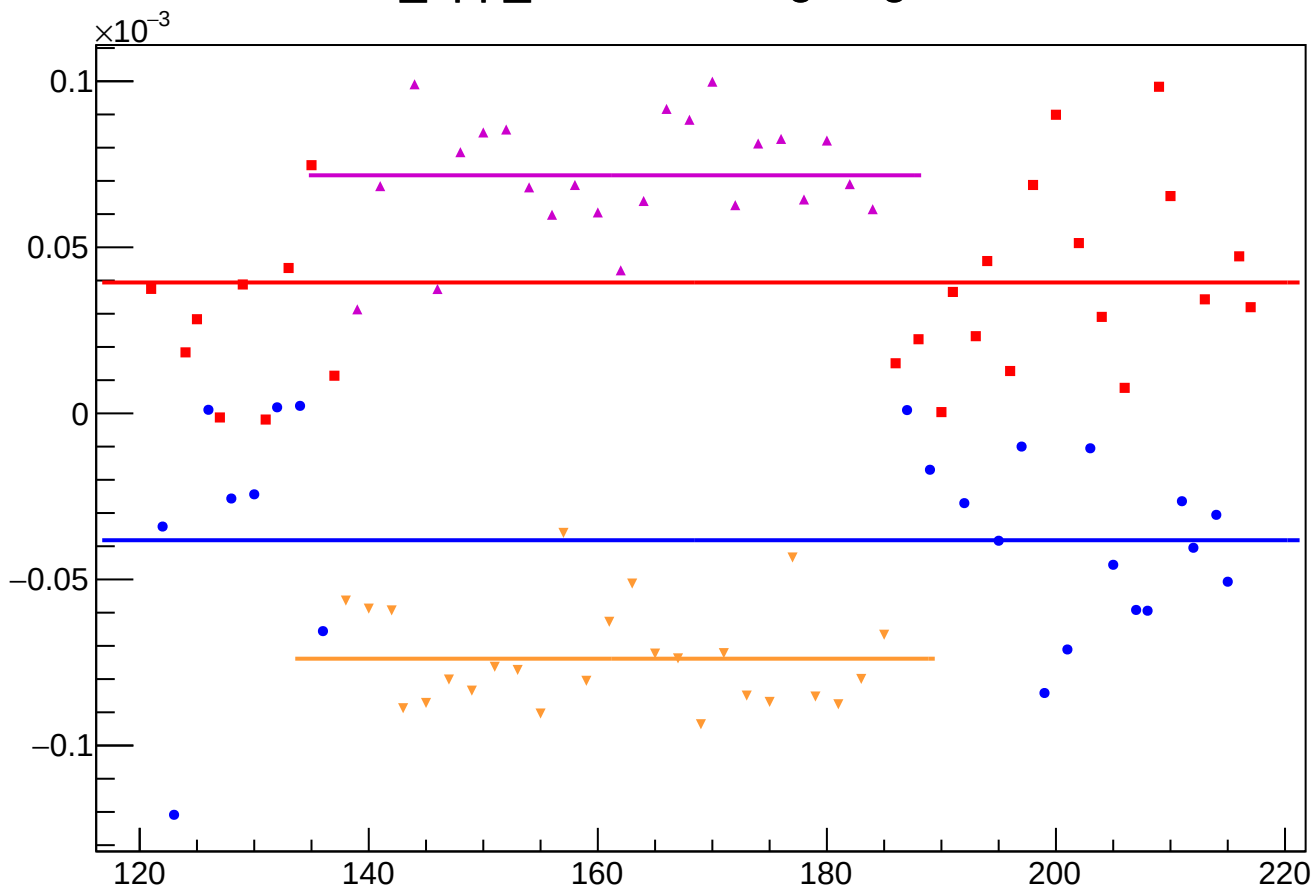
Left: 2.342±/-0.000 χ^2/NDF : 288085769312401978
 Right: -2.614±/-0.000 χ^2/NDF : 2384916678611208
 In: -9.355±/-0.000 χ^2/NDF : 253150920218172098
 Out: 9.149±/-0.000 χ^2/NDF : 268117548621807100
 All: 0.146±/-0.000 χ^2/NDF : 52698231473358

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2166.974 +/- 0.000 χ^2/NDF : 2211056324357146436969492293884051456.0/22
 Left Out: 2174.622 +/- 0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.468 +/- 0.000 χ^2/NDF : 7140607235112282200673629511876608.0/25
 Left In: -2174.539 +/- 0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 4.270 +/- 0.000 χ^2/NDF : 31542244489043

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 827309681829531617329152.0/22

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1126860582415084917096448.0/25

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000 χ^2/NDF : 20702696564433151

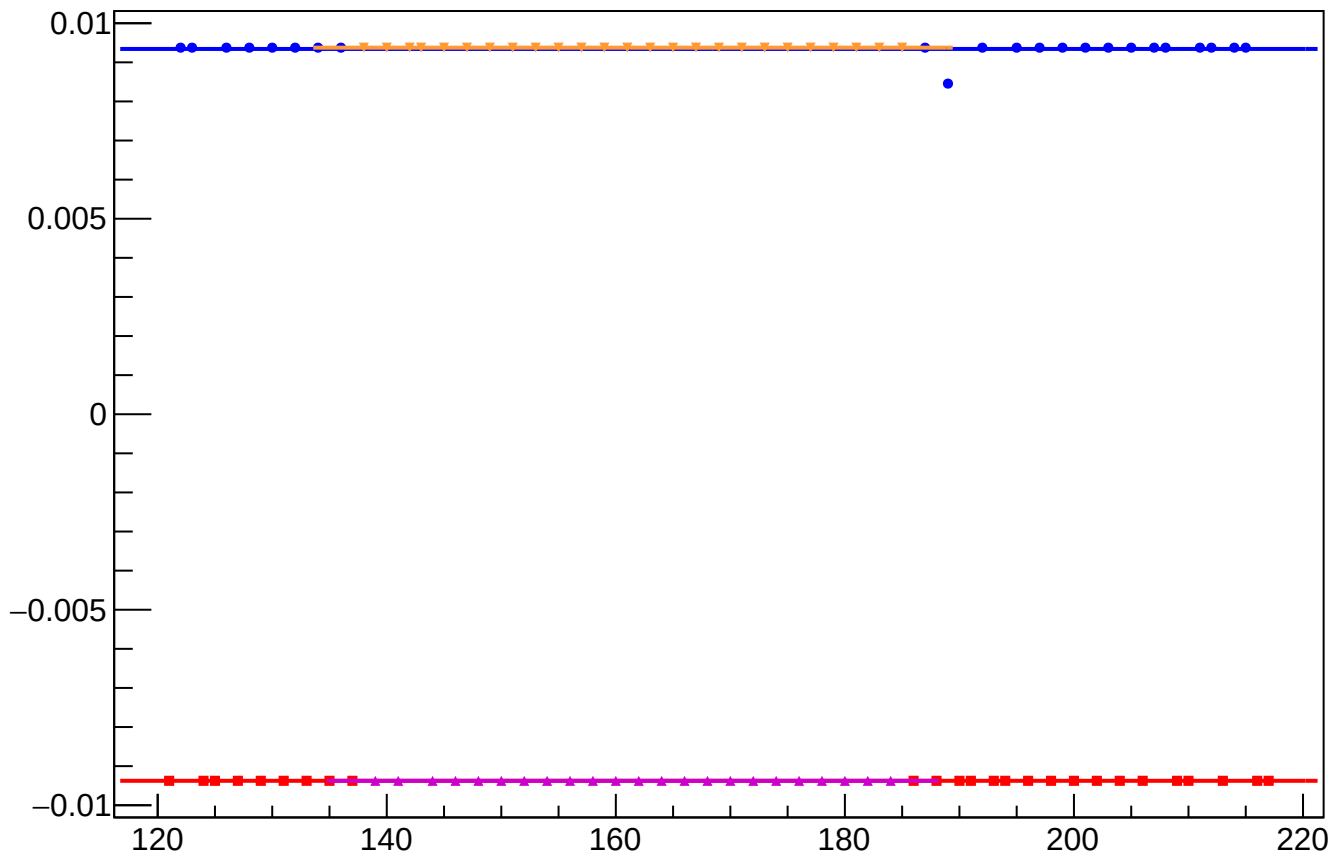
Right: 0.000+/-0.000 χ^2/NDF : 64060975523245457

In: 0.000+/-0.000 χ^2/NDF : 1106922734215641205

Out: -0.000+/-0.000 χ^2/NDF : 12437437168211319

All: -0.000+/-0.000 χ^2/NDF : 2714519228887

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2590128547564255

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

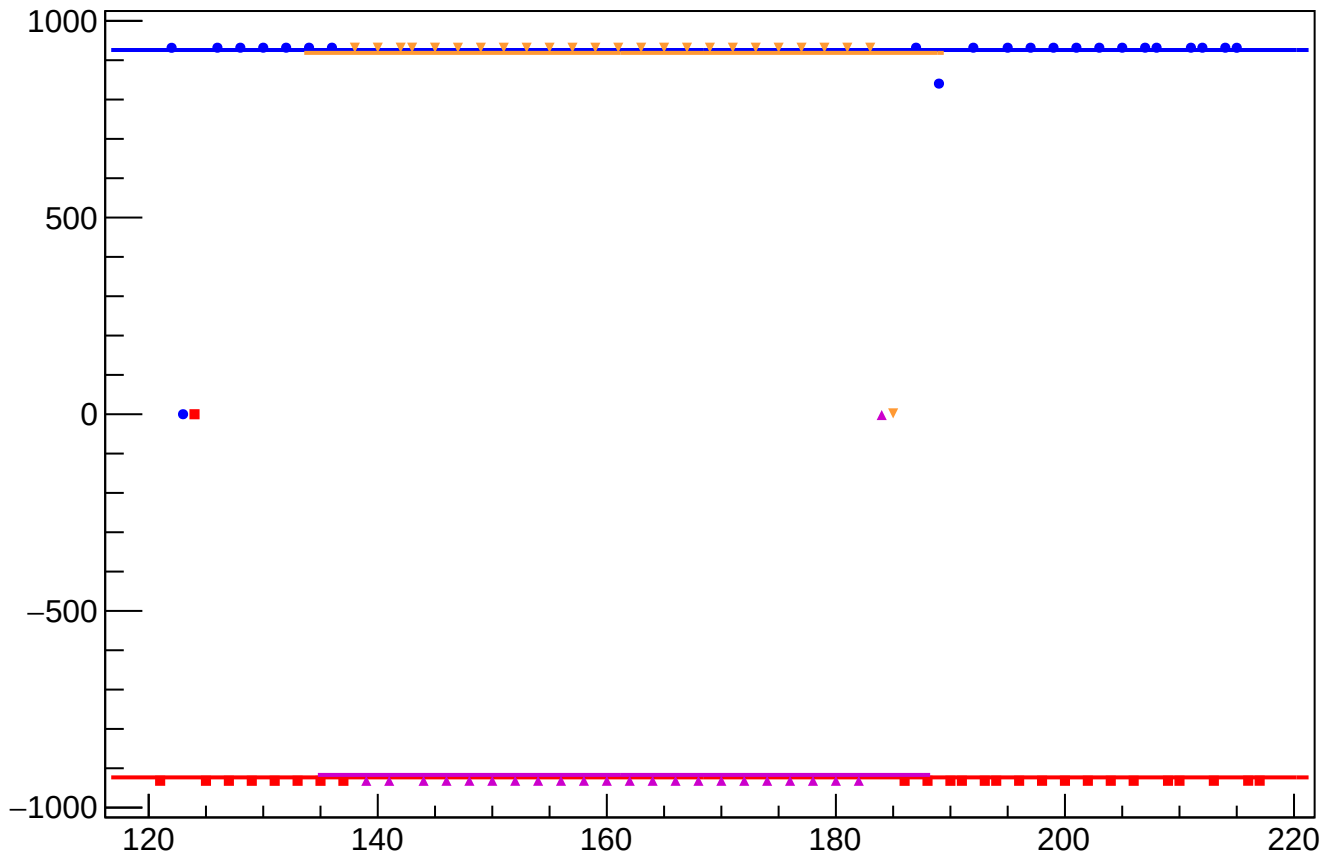
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

χ^2/NDF : 58627132880952

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 925.951+/-0.000

χ^2/NDF : 3848747238651652793645835308738019328.0/22

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -923.197+/-0.000

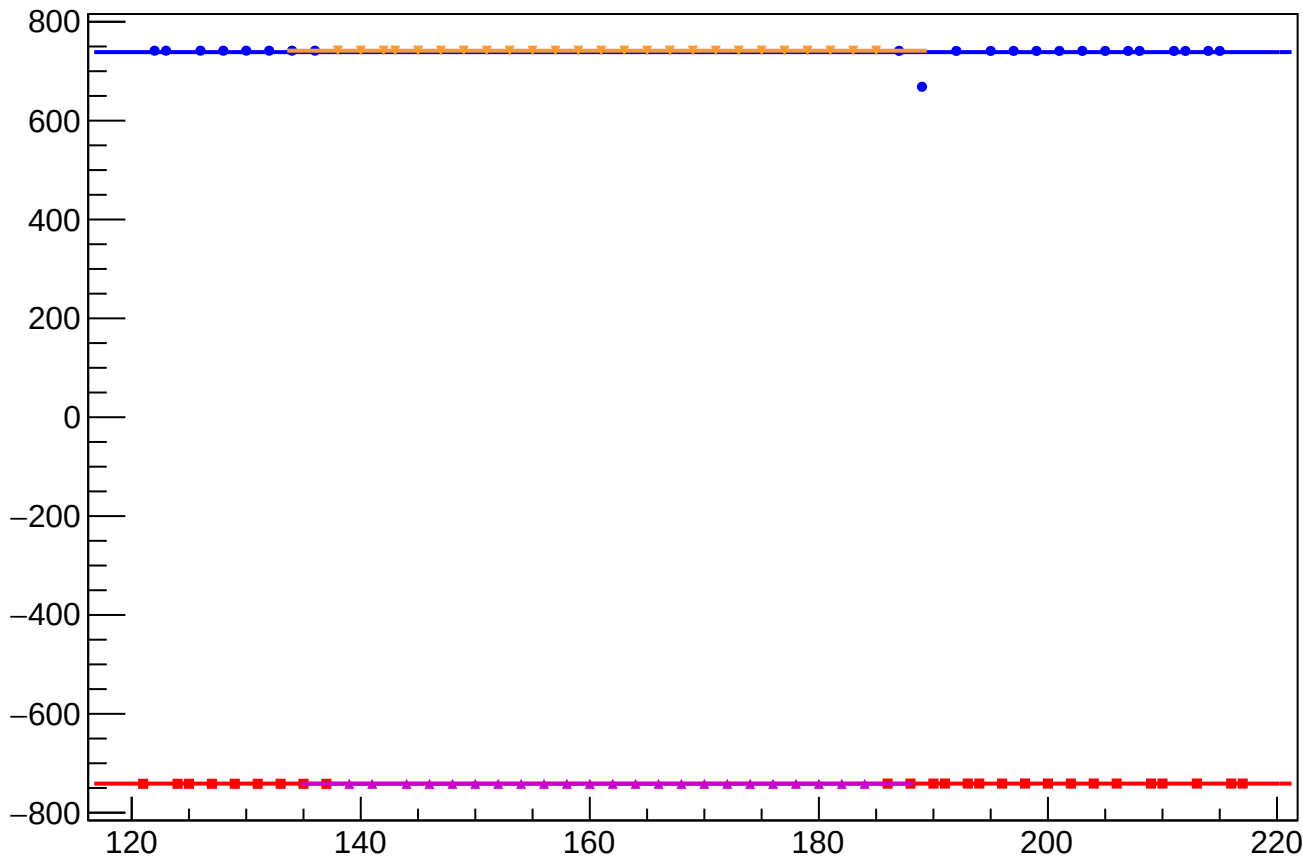
χ^2/NDF : 12042189843700954692169415321901334528.0/25

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

All: 3.489+/-0.000 χ^2/NDF : 57270906524328

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.575+/-0.000 χ^2/NDF : 259695827327483166432240915441516544.0/22

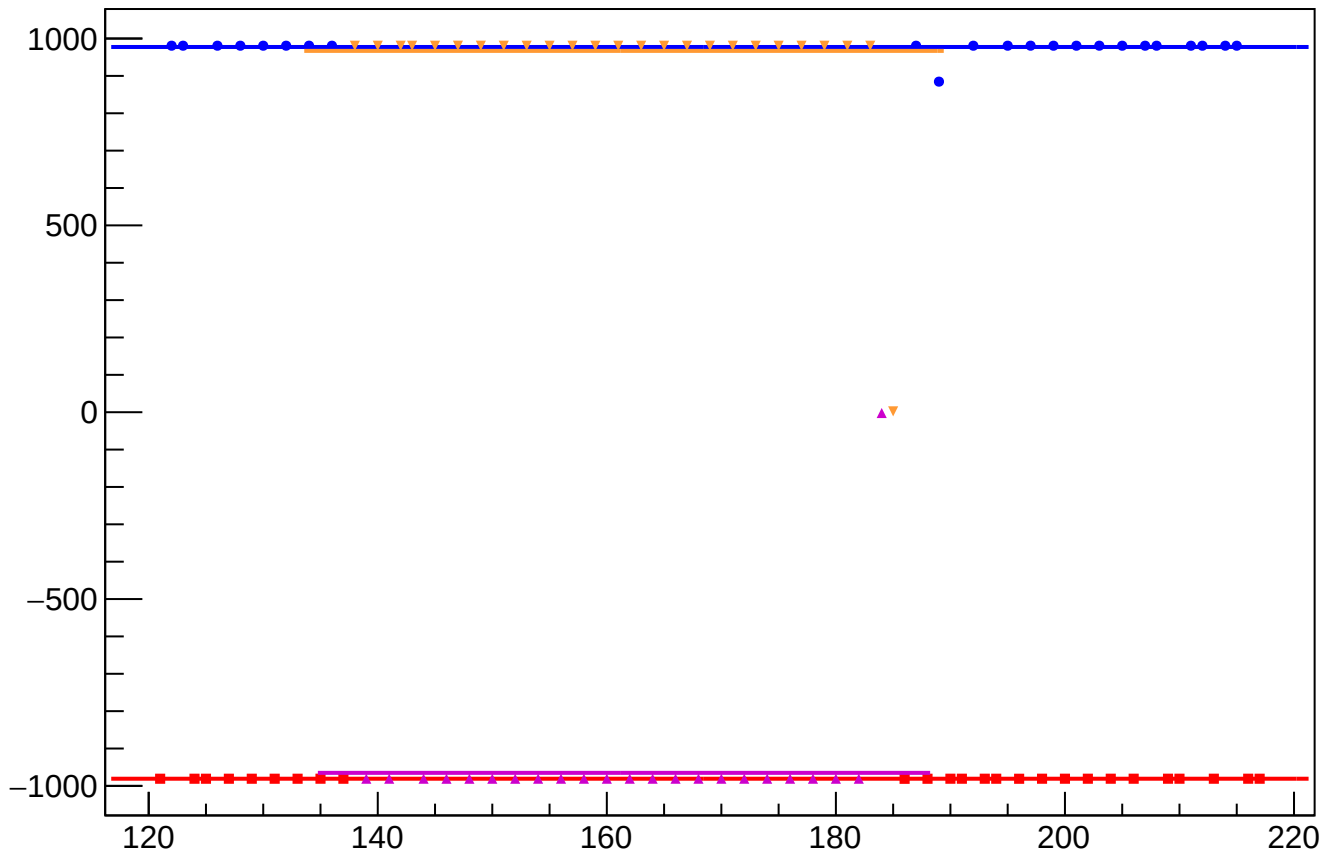
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.146+/-0.000 χ^2/NDF : 61316250724185328033262171324416.0/25

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: 1.449+/-0.000 χ^2/NDF : 36660993259982

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.400+/-0.000

χ^2/NDF : 454950551828189447524254324373848064.0/22

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.816+/-0.000

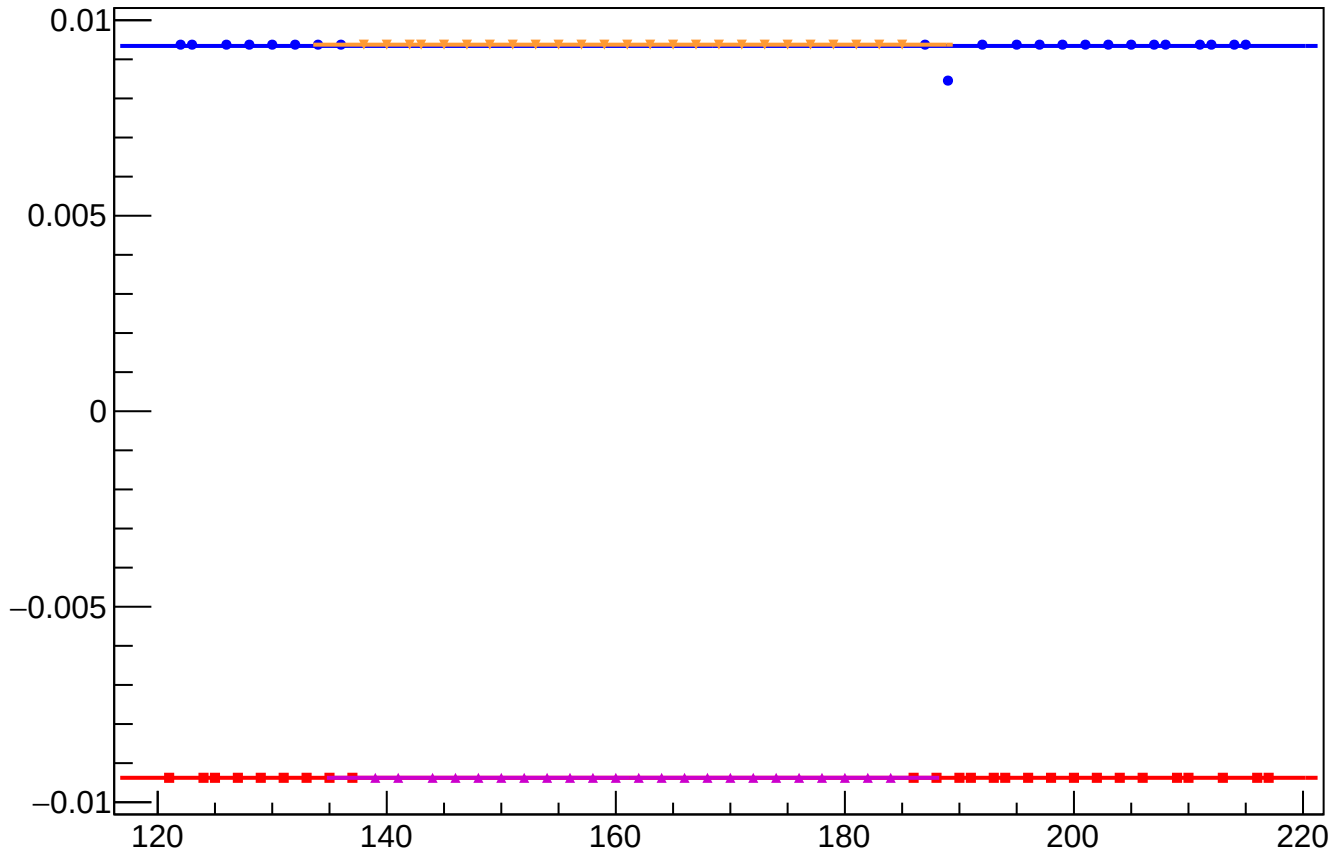
χ^2/NDF : 3536932016905664254714354597888.0/25

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 2.199+/-0.000 χ^2/NDF : 63627594564539

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2590128547564255

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

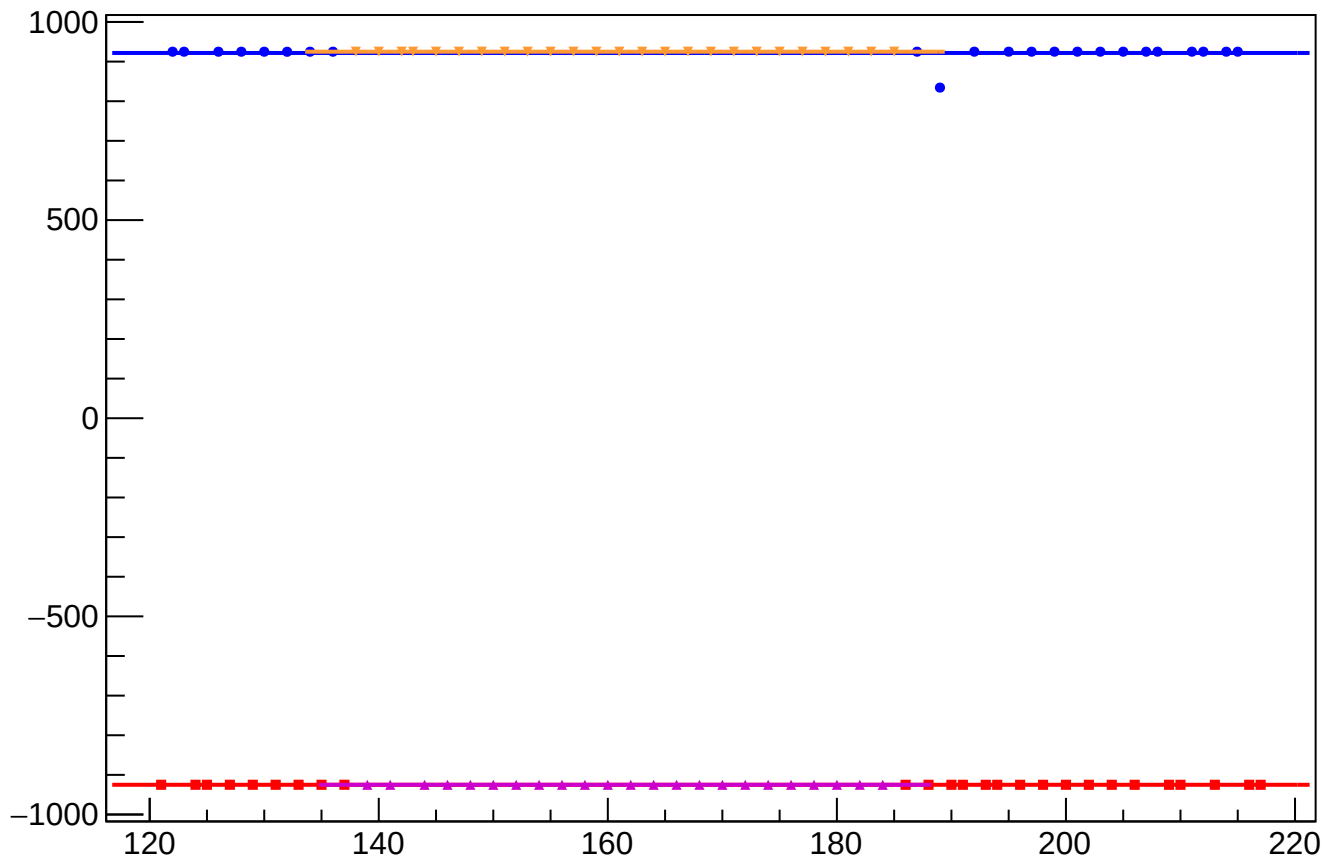
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

χ^2/NDF : 58627132880952

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 921.781+/-0.000

χ^2/NDF : 404267610181778129412519057533435904.0/22

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.999+/-0.000

χ^2/NDF : 892030564653199222428724625408.0/25

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

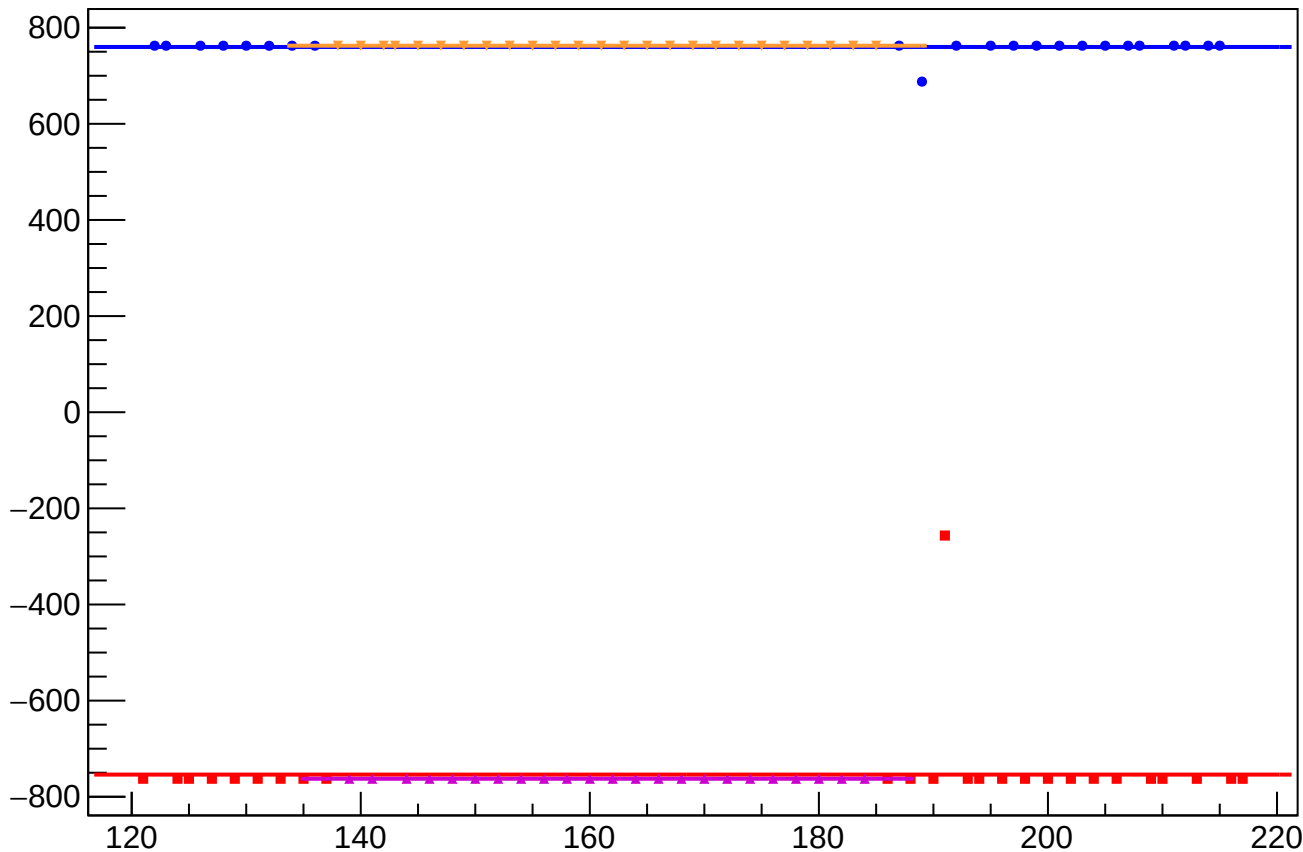
Right: -26.886+/-0.000 χ^2/NDF : 252150302956051

In: -107.293+/-0.000 χ^2/NDF : 2735161263619772

Out: 105.166+/-0.000 χ^2/NDF : 2896794343476874

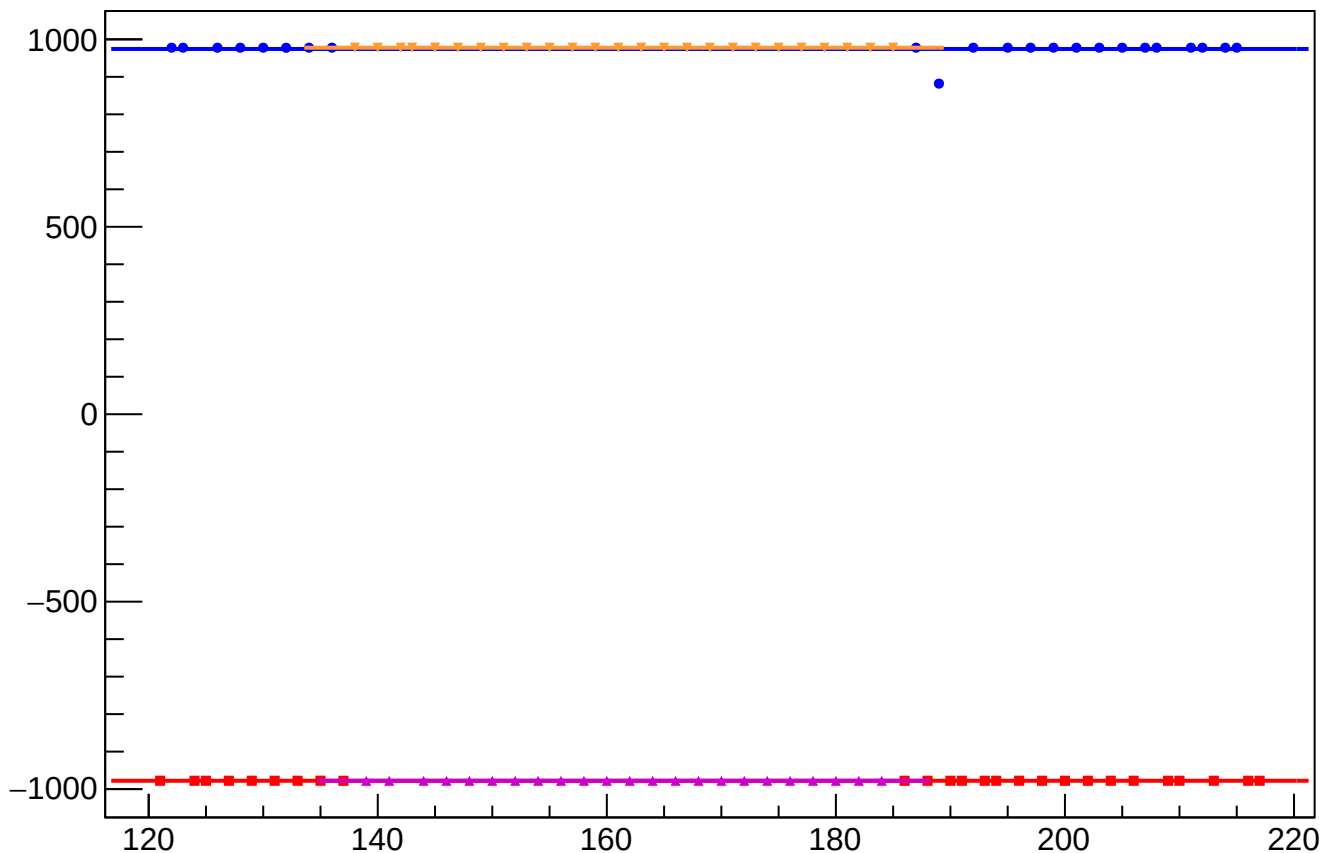
All: 1.799+/-0.000 χ^2/NDF : 57072821734646

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



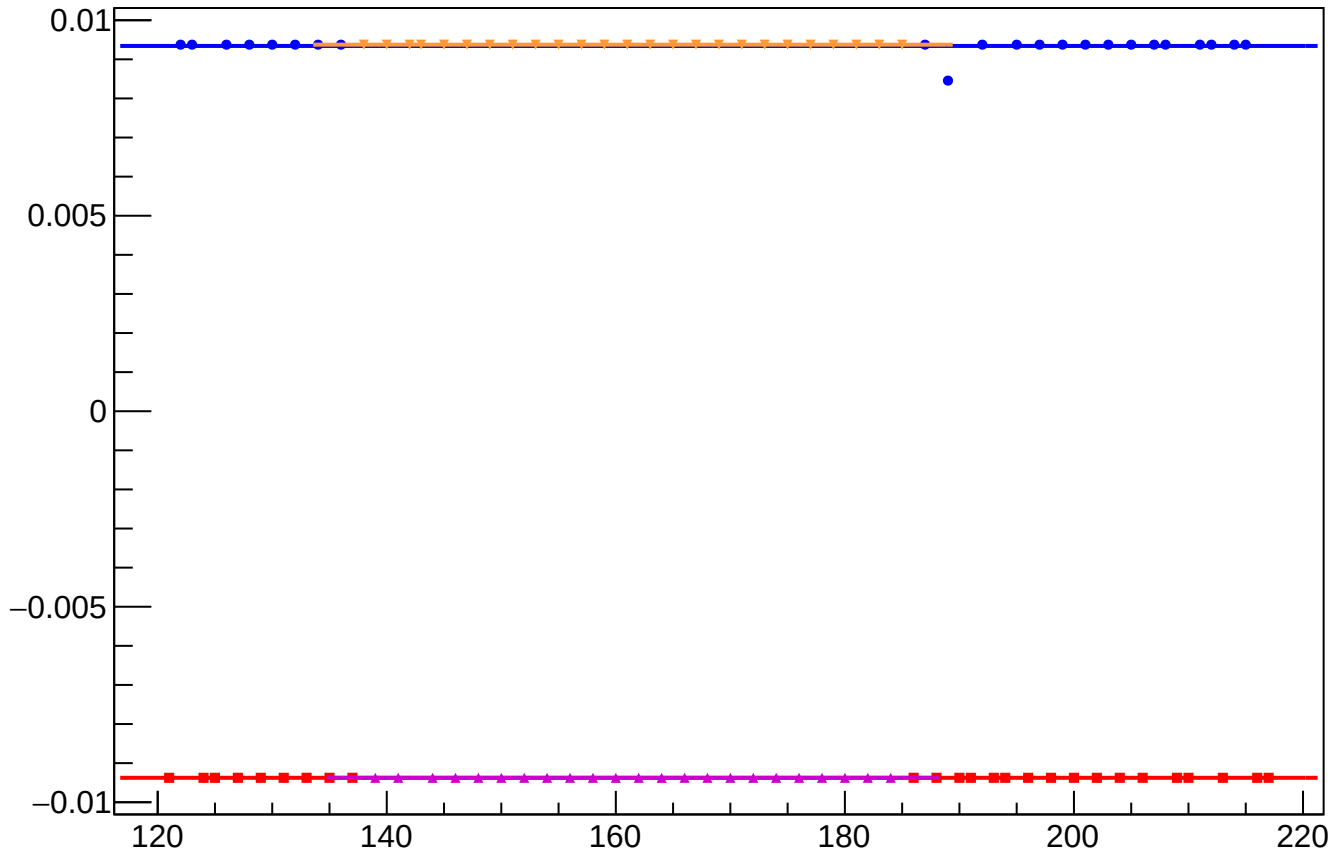
Right In: 759.880 +/- 0.000 χ^2/NDF : 274624978337053133415194847954862080.0/22
 Left Out: 762.518 +/- 0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -753.886 +/- 0.000 χ^2/NDF : 6542817733298857419721912305758240768.0/25
 Left In: -762.519 +/- 0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: 3.450 +/- 0.000 χ^2/NDF : 38650450924573

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.364 +/- 0.000 χ^2/NDF : 451854919905137279929719054718205952.0/22
 Left Out: 977.738 +/- 0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.757 +/- 0.000 χ^2/NDF : 1857715681045389290401649655808.0/25
 Left In: -977.735 +/- 0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 1.904 +/- 0.000 χ^2/NDF : 63768838442556

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2590128547564255

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

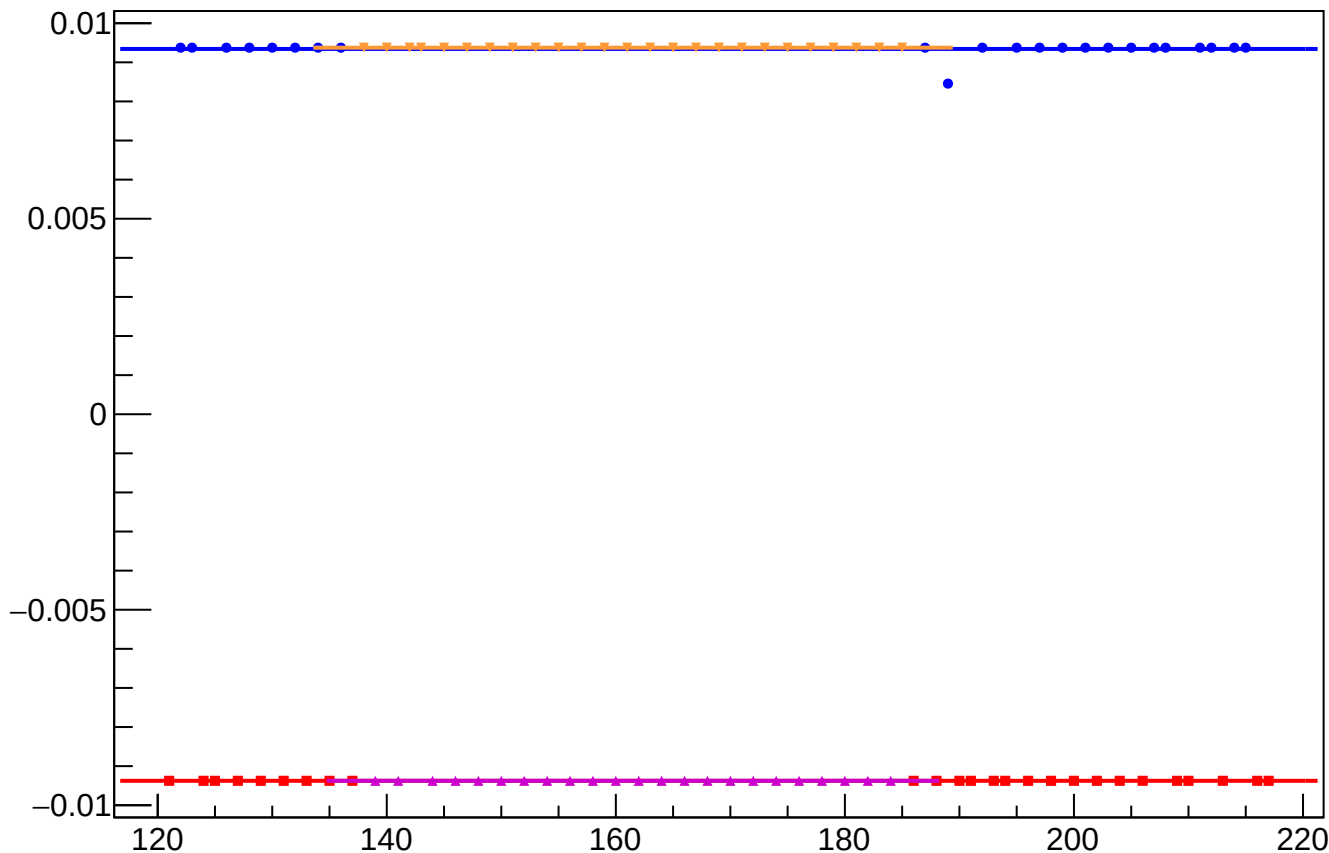
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

χ^2/NDF : 58627132880952

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2590128547564255

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

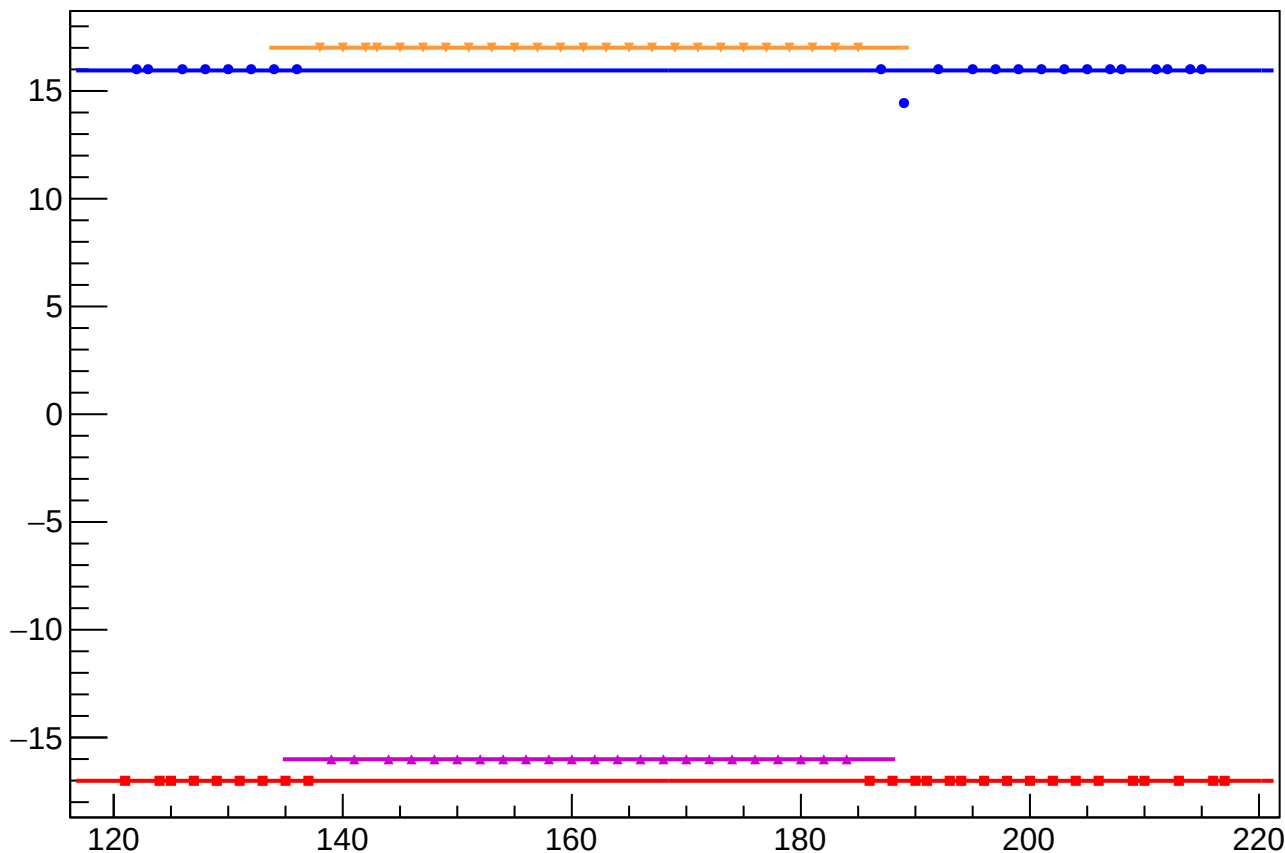
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

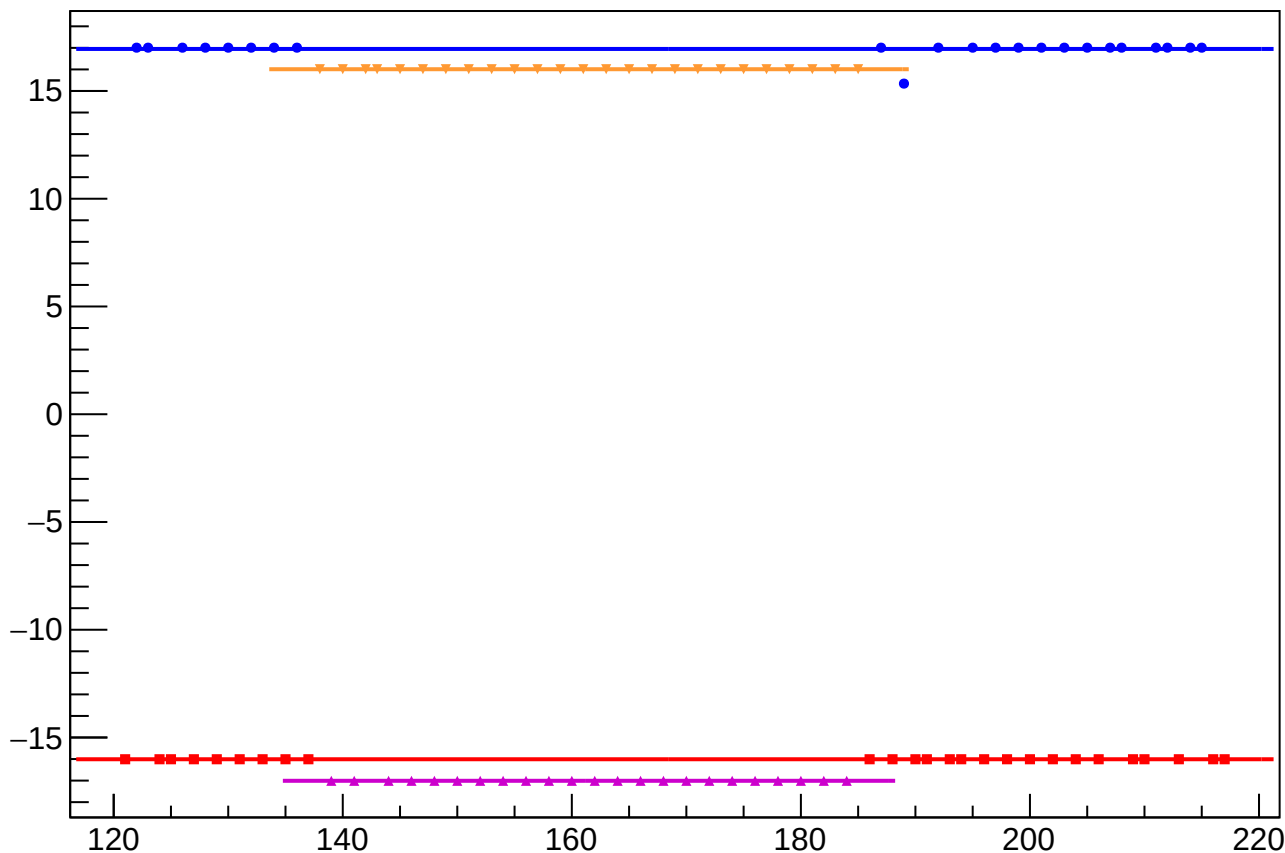
χ^2/NDF : 58627132880952

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



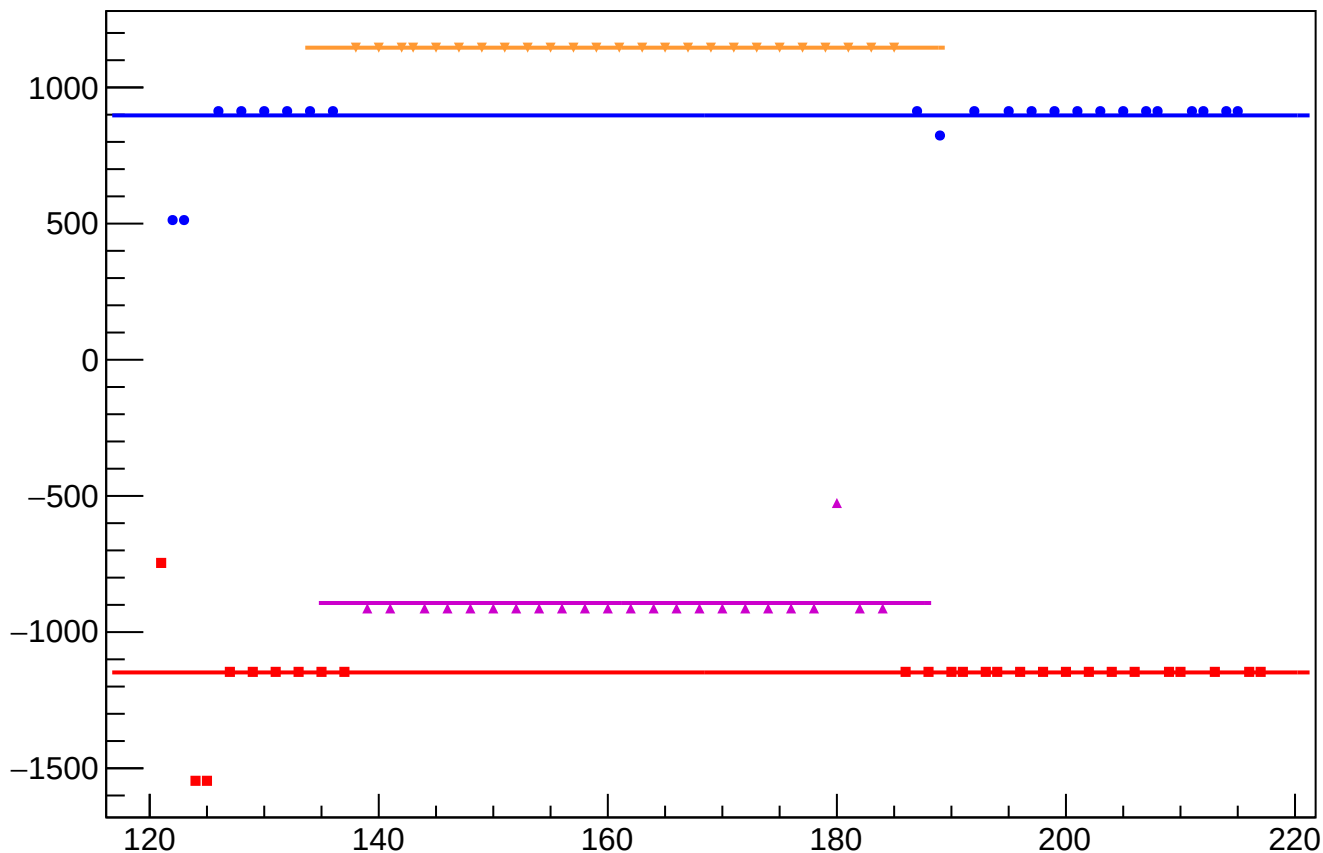
Right In: 15.953+/-0.000 χ^2/NDF : 121101380043706101533117966712832.0/22
 Left Out: 17.009+/-0.000 χ^2/NDF : 26284444608576238643052544.0/24
 Right Out: -17.009+/-0.000 χ^2/NDF : 18080566825018732520144896.0/25
 Left In: -16.009+/-0.000 χ^2/NDF : 127973174512756677672960.0/22
 All: 0.032+/-0.000 χ^2/NDF : 17397268093676

IGL1I00OD16_16_mean vs Slug, Sign Corrected



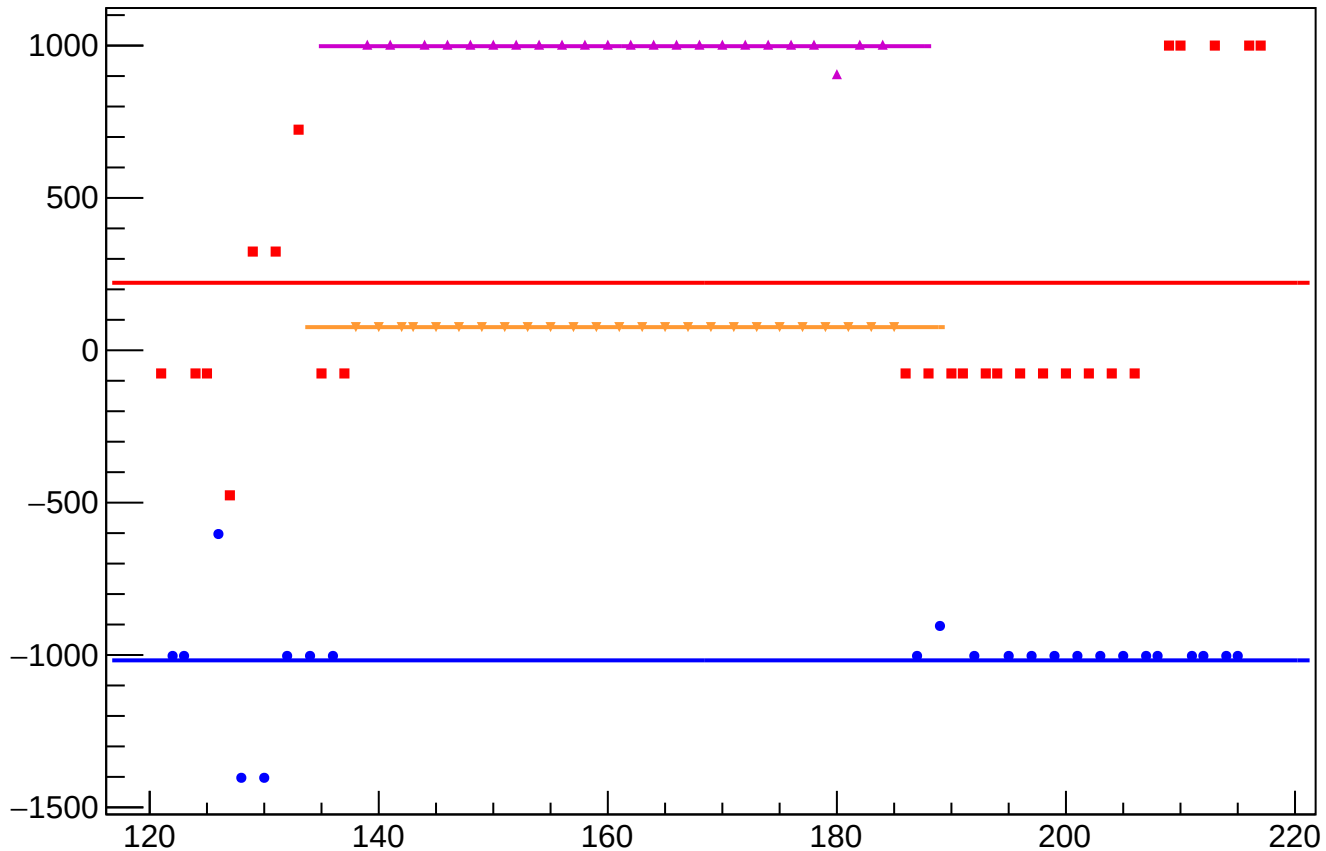
Right In: 16.950 $\pm$ 0.000 χ^2 /NDF: 136795280700164380279692024872960.0/22
 Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89740.8/24
 Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 267594.2/25
 Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22
 Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 99431233770062905
 Right: 0.019 $\pm$ 0.000 χ^2 /NDF: 80315309875952959
 In: -1.762 $\pm$ 0.000 χ^2 /NDF: 914564963668898105
 Out: 1.720 $\pm$ 0.000 χ^2 /NDF: 862877965892910940
 All: 0.032 $\pm$ 0.000 χ^2 /NDF: 17974663126650

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574 +/- 0.000 χ^2/NDF : 3878499194076111
 Right: -153.397 +/- 0.000 χ^2/NDF : 31136365770915
 In: -100.370 +/- 0.000 χ^2/NDF : 2590930071973003
 Out: 129.372 +/- 0.000 χ^2/NDF : 4468443184290252
 All: 17.597 +/- 0.000 χ^2/NDF : 7147453870039

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1017.572+/-0.000

χ^2/NDF : 23386782472197702231295877545373728768.0/22

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 221.555+/-0.000

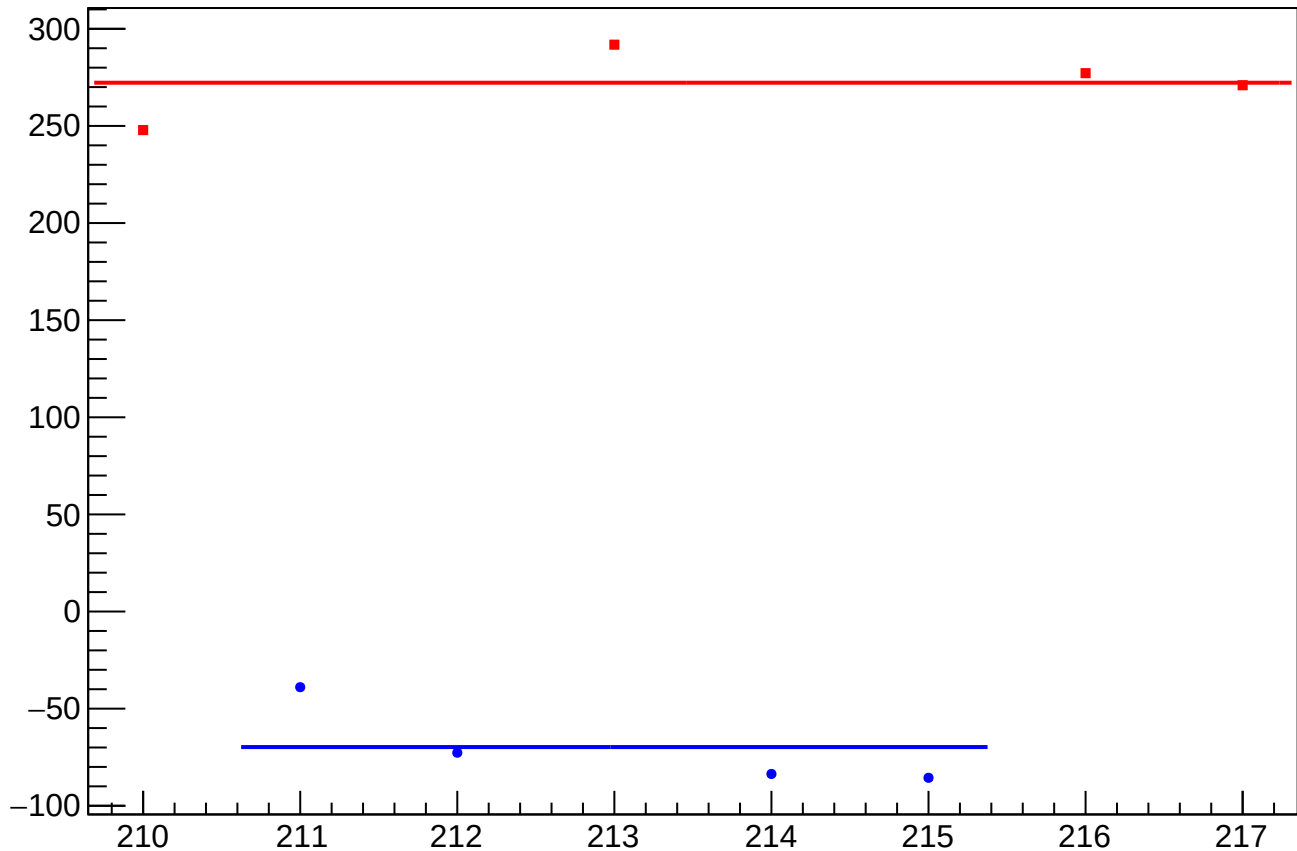
χ^2/NDF : 346615768237306618736314442733764739072.0/25

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

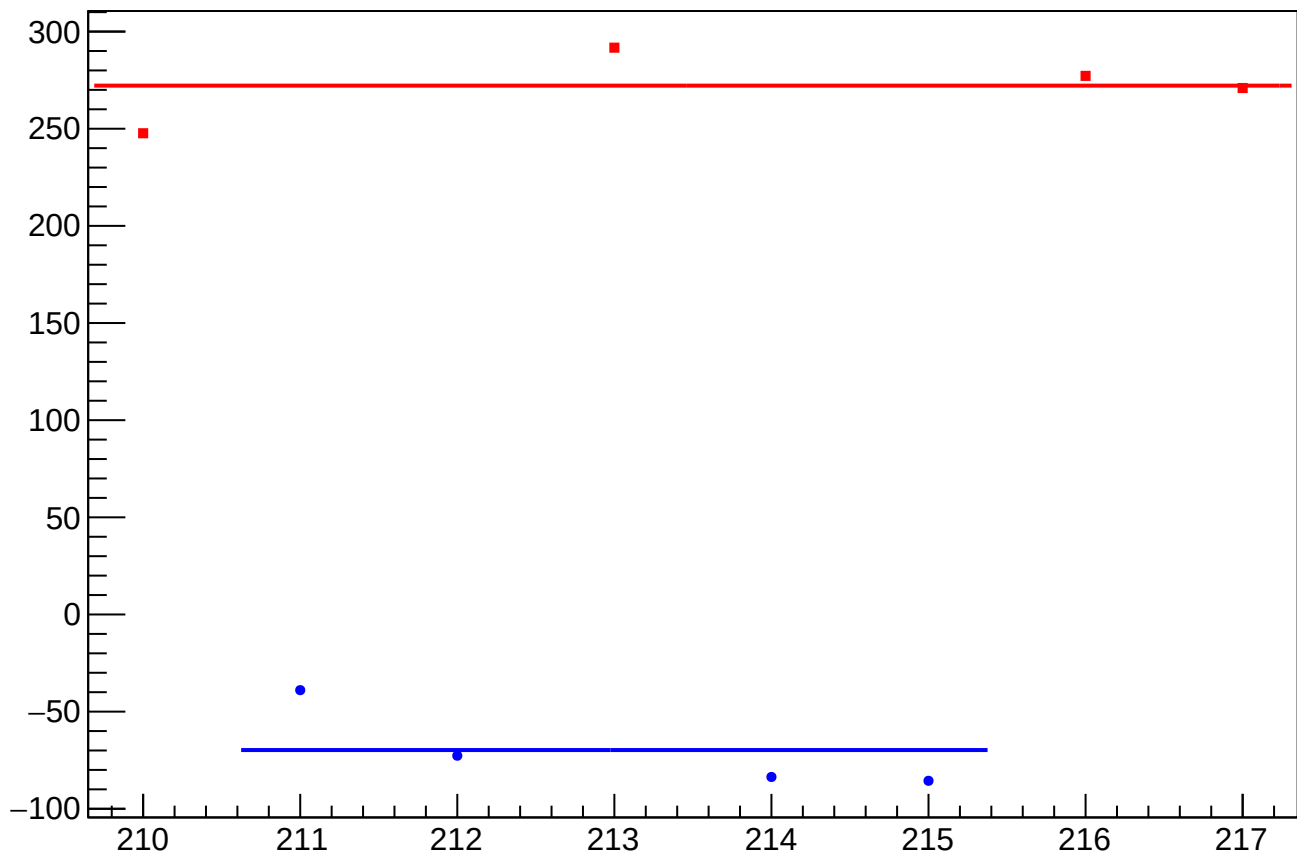
All: 123.514+/-0.000 χ^2/NDF : 364841972848

RTPPITA1CNT_mean vs Slug, Sign Corrected



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: 272.251+/-0.000 χ^2/NDF : 74523041866937066731756197506973696.0/3
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 102.098+/-0.000 χ^2/NDF : 176393803165283

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -69.774 ± 0.000 $\chi^2/\text{NDF}: 105864088683195568752421154630664192.0/3$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 272.179 ± 0.000 $\chi^2/\text{NDF}: 74848359580894041545317741003538432.0/3$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 102.061 ± 0.000 $\chi^2/\text{NDF}: 176323375584455$