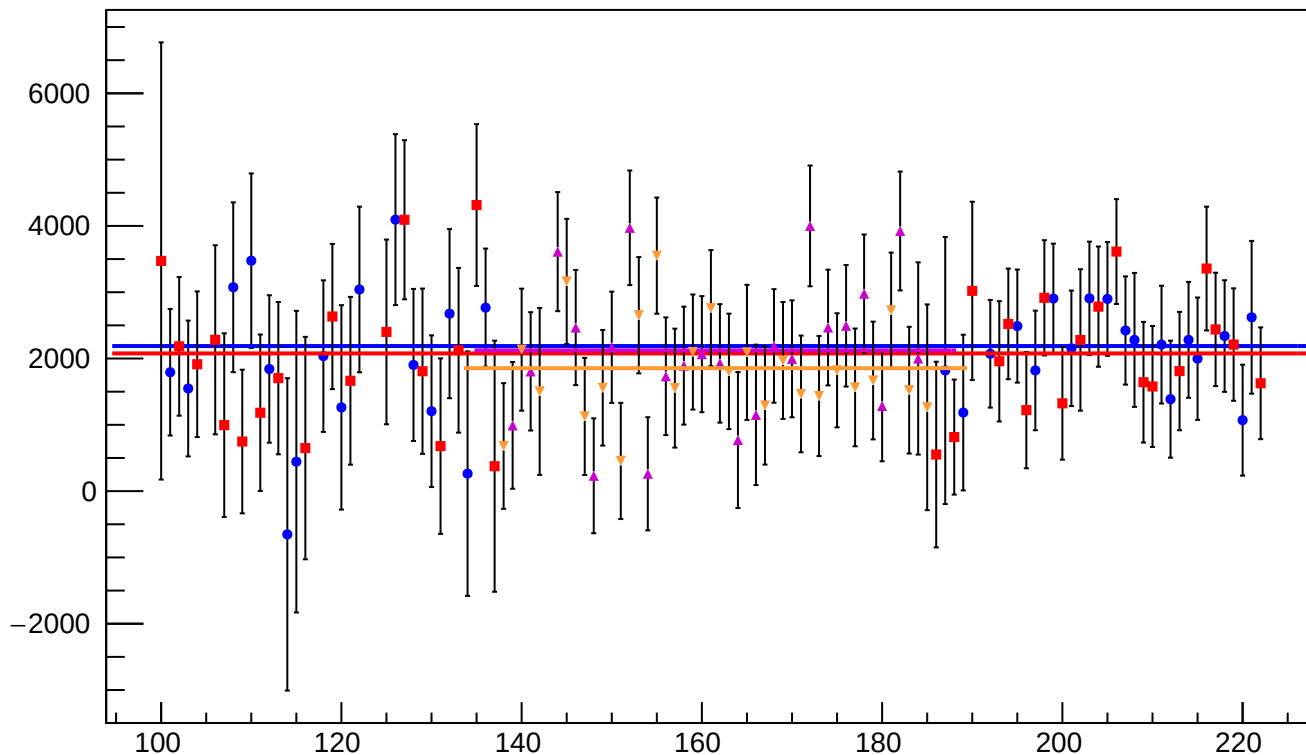


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2188.058+/-176.099

Left Out: 1854.267+/-187.405

Right Out: 2076.918+/-174.775

Left In: 2123.138+/-188.684

χ^2/NDF : 15.8/33

χ^2/NDF : 15.1/23

χ^2/NDF : 26.5/35

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2132.069+/-124.050

In: 2157.835+/-128.740

Out: 1973.347+/-127.817

All: 2064.927+/-90.705

χ^2/NDF : 48.1/46

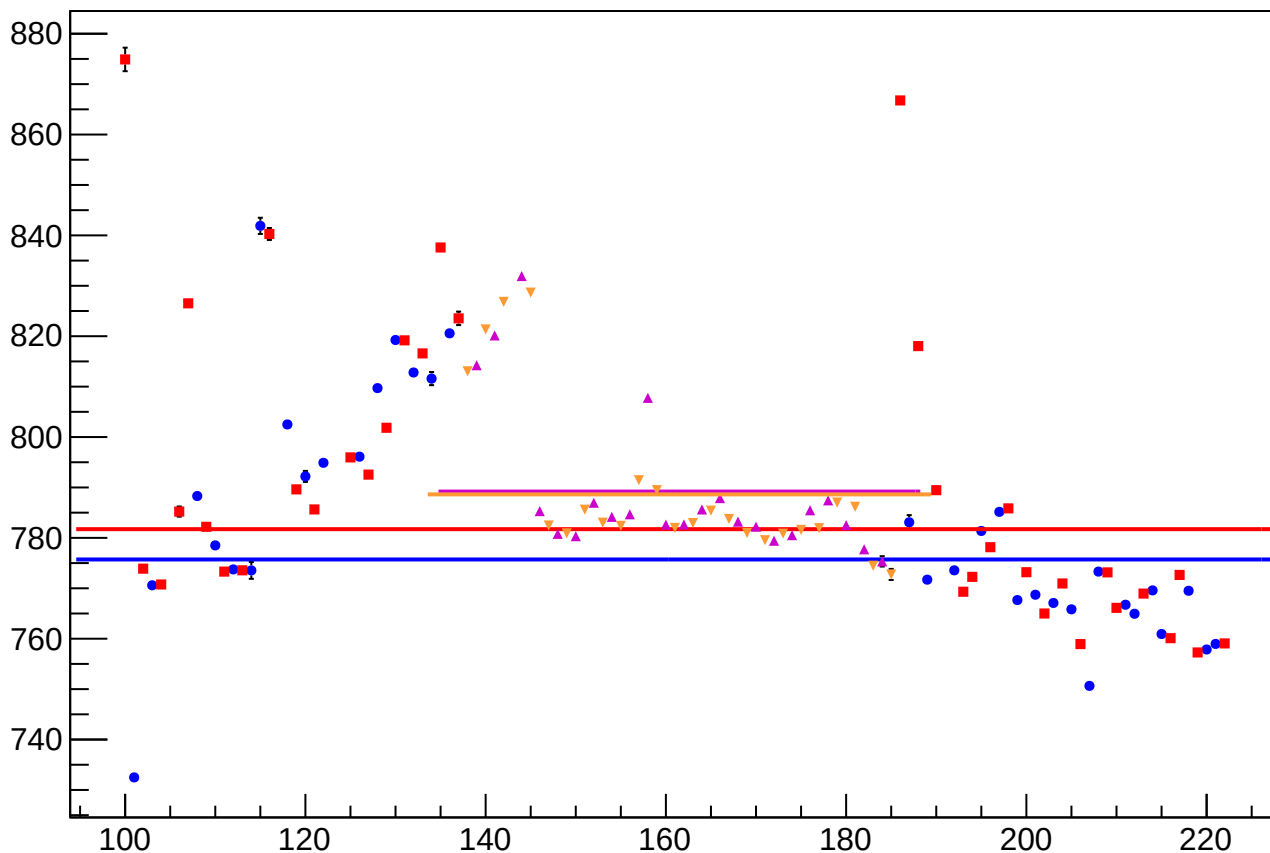
χ^2/NDF : 42.5/69

χ^2/NDF : 47.8/56

χ^2/NDF : 42.4/59

χ^2/NDF : 91.2/116

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 775.718 $\pm$ 0.125 χ^2/NDF : 26137.3/33

Left Out: 788.629 $\pm$ 0.133 χ^2/NDF :11478.1/23

Right Out: 781.729 $\pm$ 0.124 χ^2/NDF : 35885.4/35

Left In: 789.185 $\pm$ 0.133 χ^2/NDF :11343.2/22

Left: 788.905 $\pm$ 0.094 χ^2/NDF : 22830.1/46

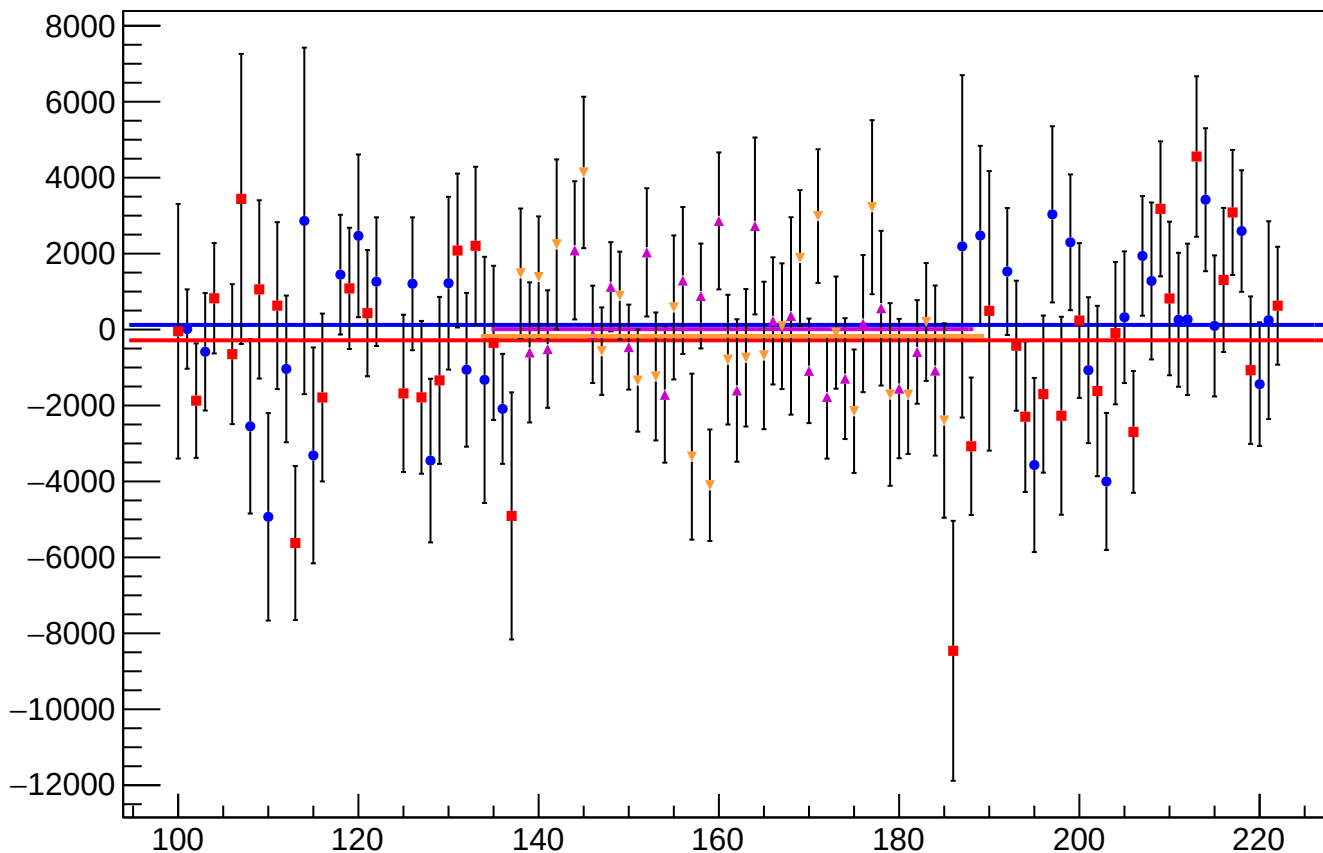
Right: 778.746 $\pm$ 0.088 χ^2/NDF : 63196.4/69

In: 781.987 $\pm$ 0.091 χ^2/NDF :42925.2/56

Out: 784.939 $\pm$ 0.090 χ^2/NDF :48813.8/59

All: 783.474 $\pm$ 0.064 χ^2/NDF : 92268.2/116

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 122.437 $\pm$ 324.472 χ^2 /NDF: 37.0/33

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

Right Out: -283.197 $\pm$ 331.148 χ^2 /NDF: 45.2/35

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

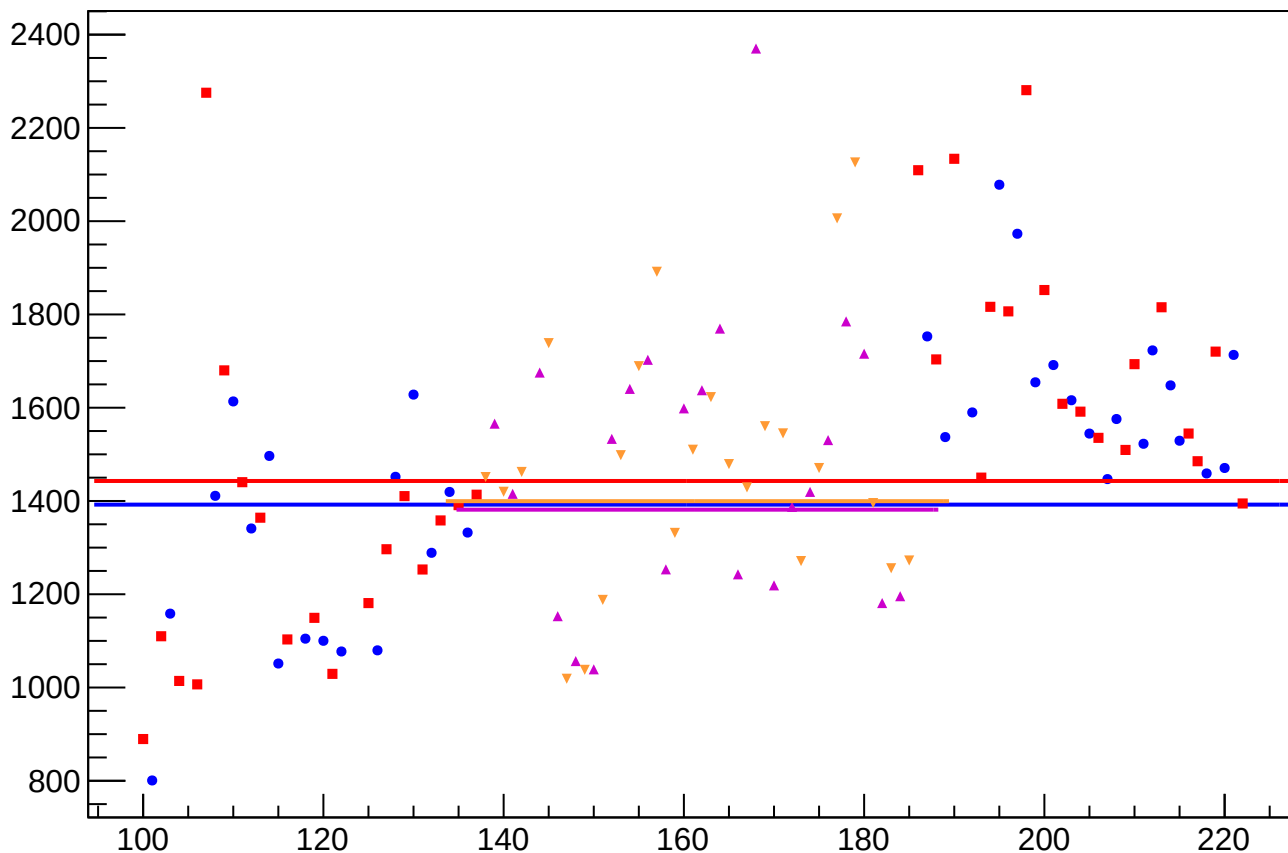
Right: -76.250 $\pm$ 231.761 χ^2 /NDF: 82.9/69

In: 68.526 $\pm$ 234.010 χ^2 /NDF:51.2/56

Out: -227.753 $\pm$ 237.358 χ^2 /NDF:75.3/59

All: -77.509 $\pm$ 166.641 χ^2 /NDF: 127.3/116

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1392.187 $\pm$ 0.229 χ^2 /NDF: 1659733.9/33

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

Right Out: 1442.893 $\pm$ 0.234 χ^2 /NDF: 1643961.1/35

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

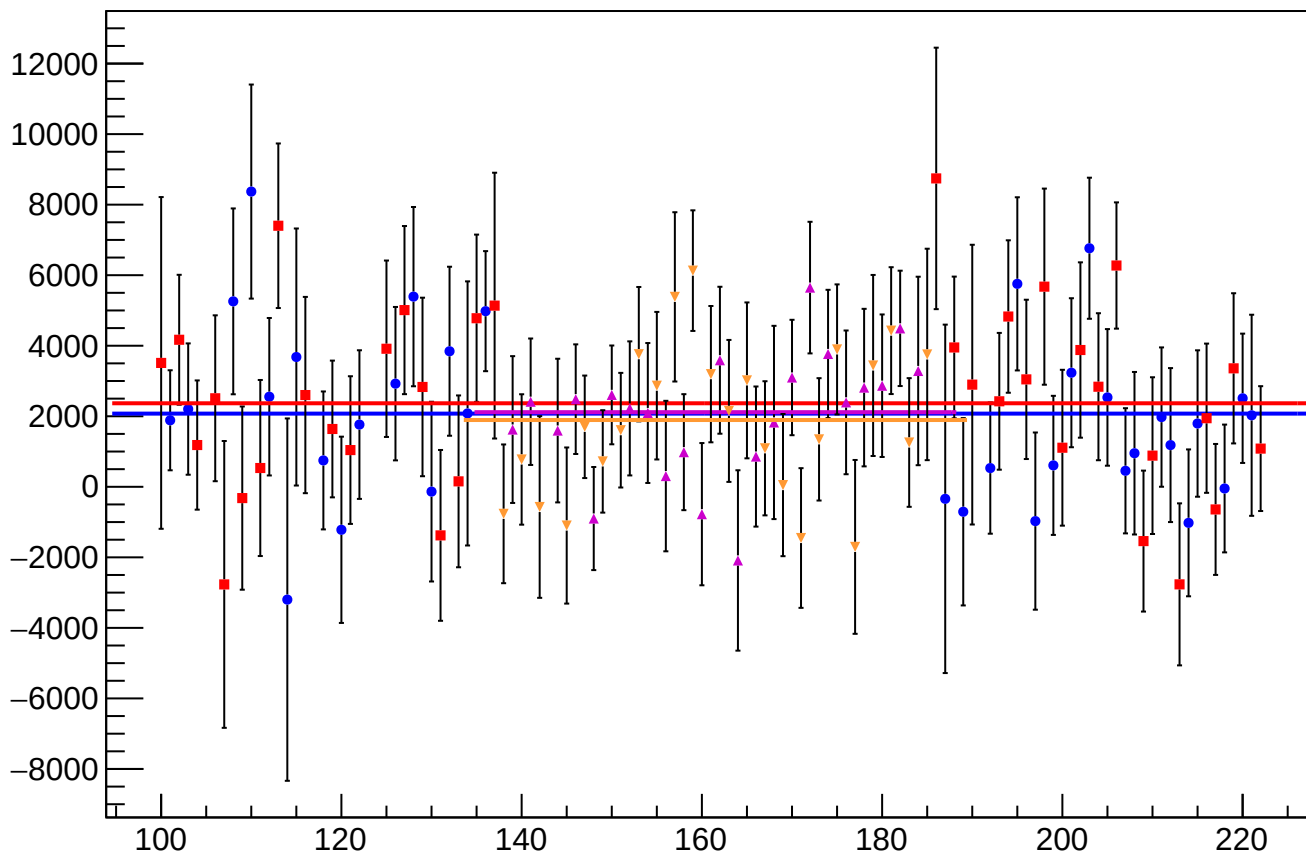
Right: 1417.024 $\pm$ 0.164 χ^2 /NDF: 3327618.0/69

In: 1386.991 $\pm$ 0.165 χ^2 /NDF:2937291.0/56

Out: 1421.836 $\pm$ 0.168 χ^2 /NDF:2779717.7/59

All: 1404.166 $\pm$ 0.118 χ^2 /NDF: 5738865.7/11

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2075.185 $\pm$ 376.711 χ^2 /NDF: 32.2/33

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

Right Out: 2368.256 $\pm$ 381.558 χ^2 /NDF: 40.9/35

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

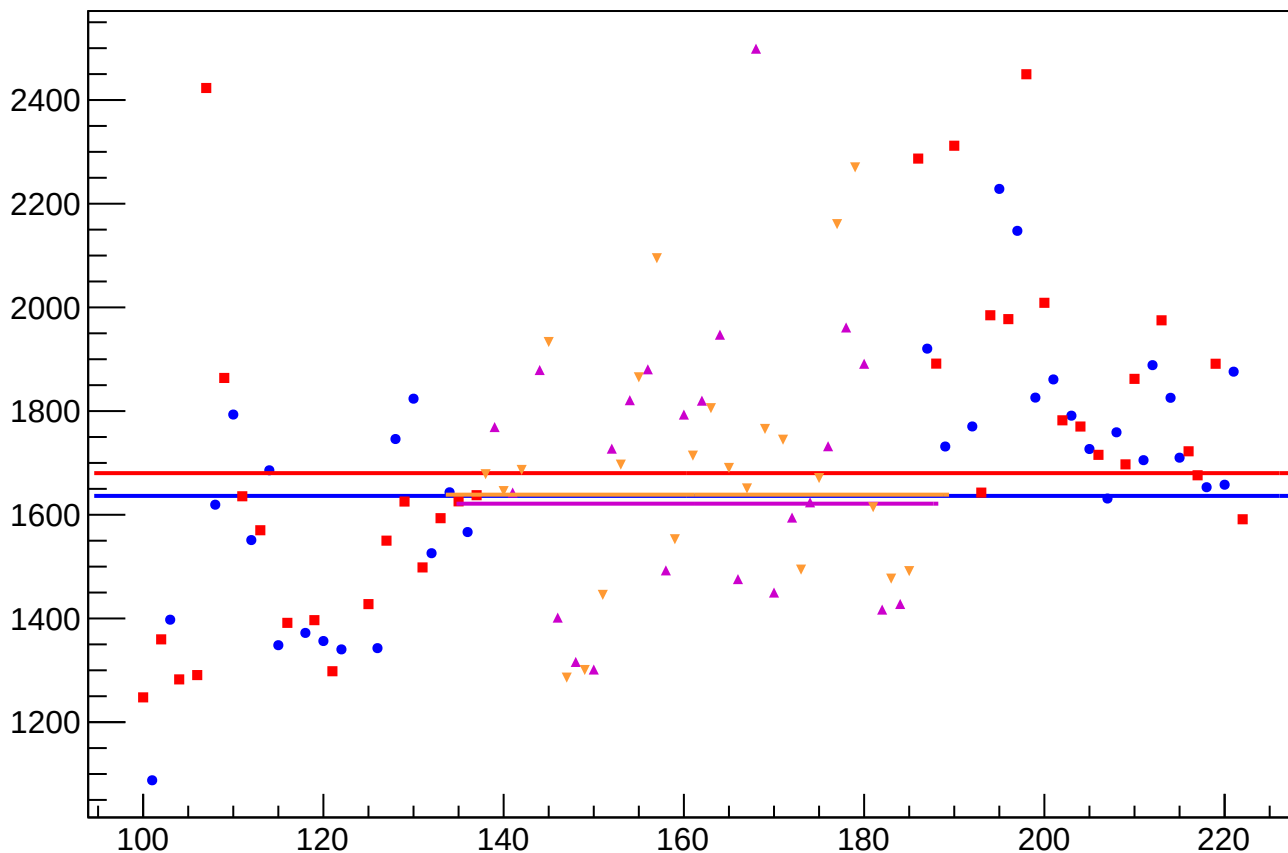
Right: 2219.847 $\pm$ 268.072 χ^2 /NDF: 73.4/69

In: 2094.784 $\pm$ 271.950 χ^2 /NDF:51.0/56

Out: 2139.004 $\pm$ 274.390 χ^2 /NDF:67.6/59

All: 2116.697 $\pm$ 193.155 χ^2 /NDF: 118.6/116

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1636.406 ± 0.266 $\chi^2/\text{NDF}: 854766.2/33$

Left Out: 1638.806 ± 0.279 $\chi^2/\text{NDF}: 671906.6/23$

Right Out: 1680.308 ± 0.270 $\chi^2/\text{NDF}: 960619.4/35$

Left In: 1621.417 ± 0.278 $\chi^2/\text{NDF}: 775310.1/22$

Left: 1630.070 ± 0.197 $\chi^2/\text{NDF}: 1449165.3/46$

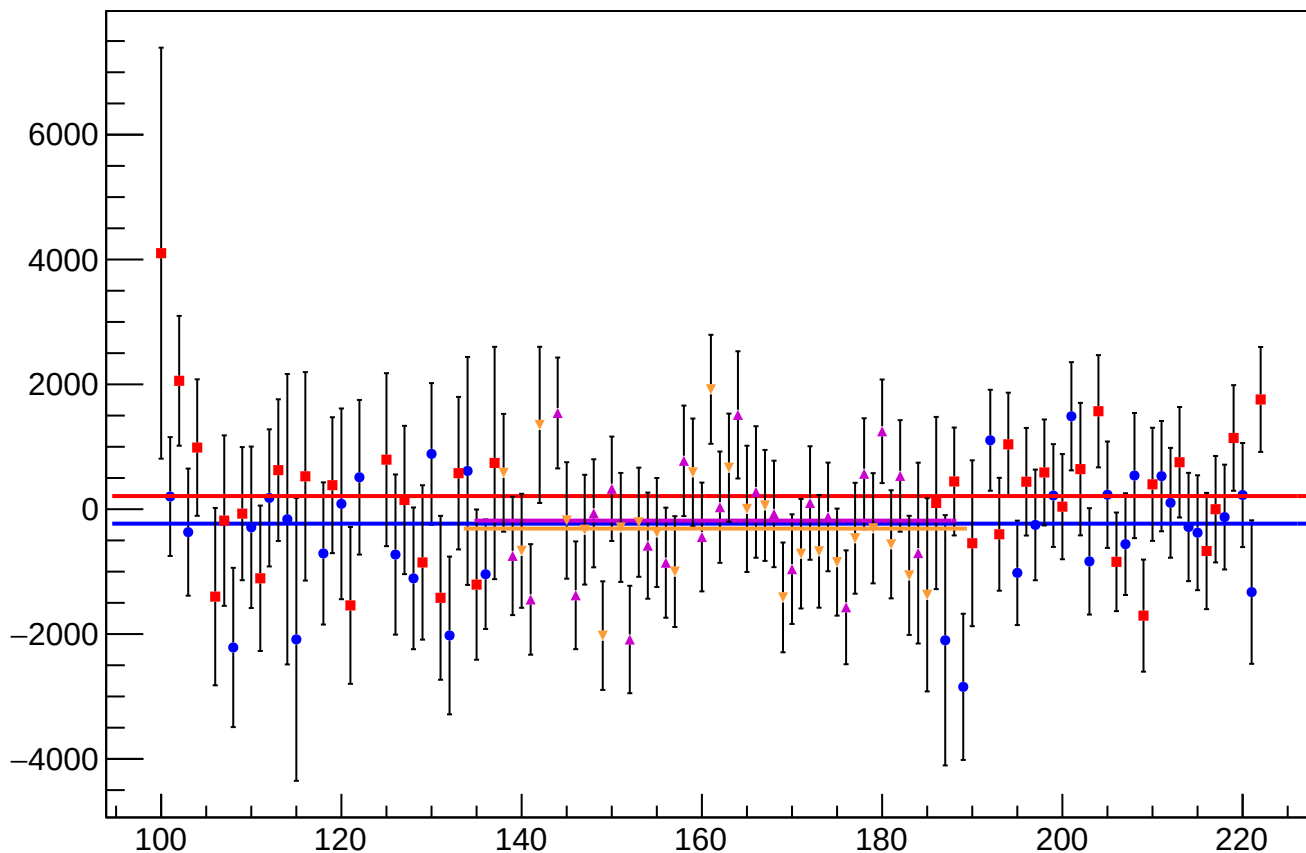
Right: 1658.076 ± 0.190 $\chi^2/\text{NDF}: 1828793.7/69$

In: 1629.228 ± 0.192 $\chi^2/\text{NDF}: 1631592.5/56$

Out: 1660.269 ± 0.194 $\chi^2/\text{NDF}: 1643950.9/59$

All: 1644.610 ± 0.137 $\chi^2/\text{NDF}: 3288455.0/11$

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -231.344 ± 174.890 $\chi^2/\text{NDF}: 26.2/33$

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

Right Out: 210.264 ± 173.318 $\chi^2/\text{NDF}: 30.9/35$

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

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

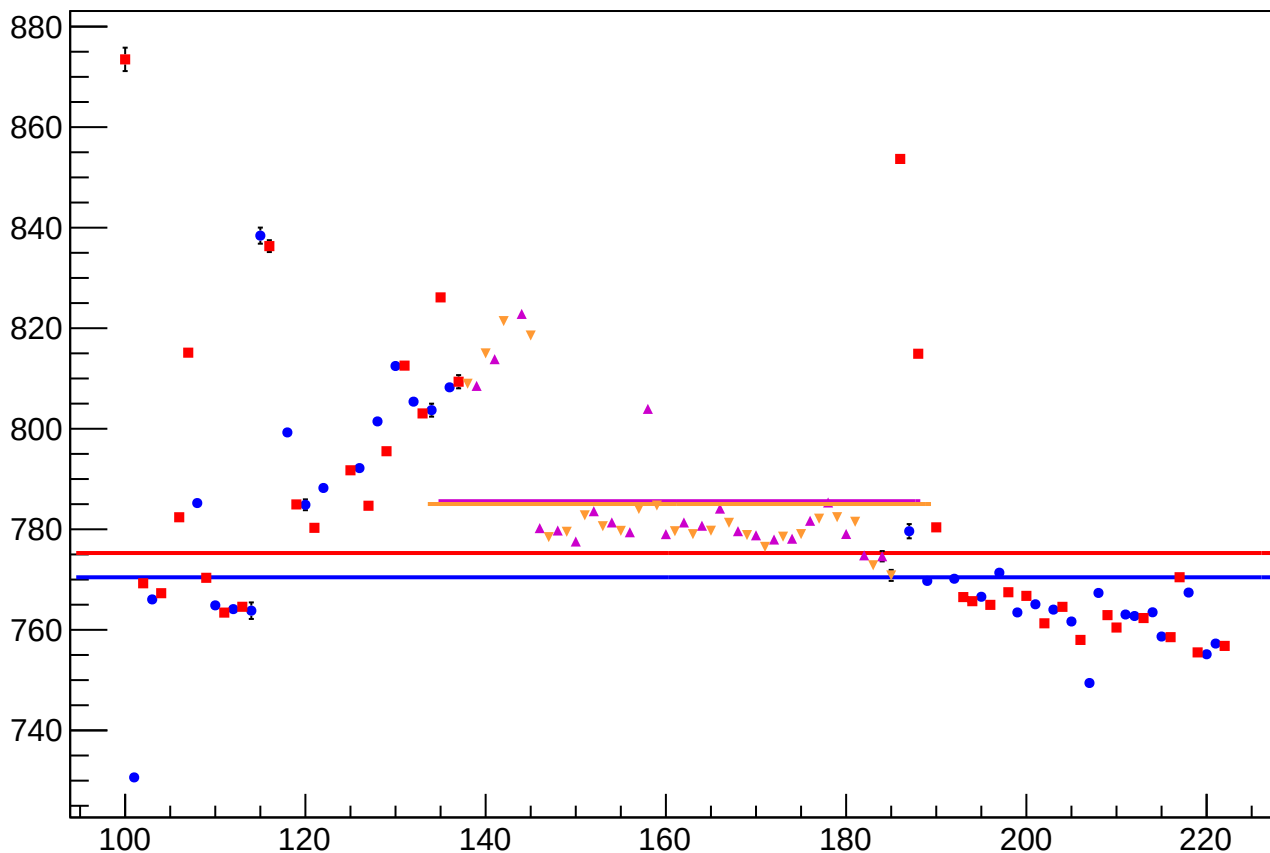
Right: -8.546 ± 123.107 $\chi^2/\text{NDF}: 60.3/69$

In: -208.844 ± 127.992 $\chi^2/\text{NDF}: 52.4/56$

Out: -31.042 ± 126.971 $\chi^2/\text{NDF}: 55.1/59$

All: -119.231 ± 90.141 $\chi^2/\text{NDF}: 108.5/116$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 770.454+/-0.124 χ^2/NDF : 22005.7/33

Left Out: 785.031+/-0.132 χ^2/NDF : 9367.9/23

Right Out: 775.280+/-0.123 χ^2/NDF : 32343.7/35

Left In: 785.592+/-0.133 χ^2/NDF : 9373.7/22

Left: 785.309+/-0.094 χ^2/NDF : 18750.6/46

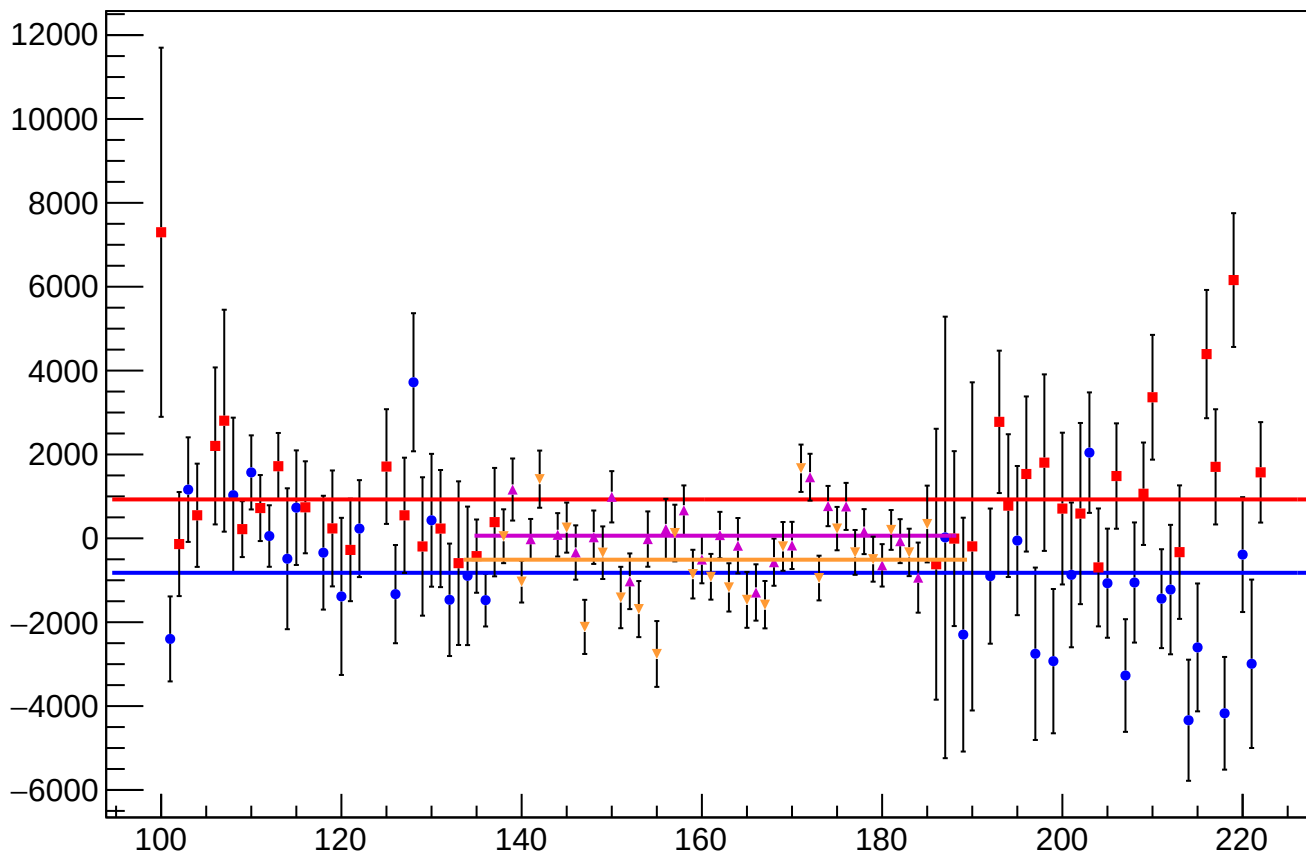
Right: 772.889+/-0.087 χ^2/NDF : 55118.0/69

In: 777.484+/-0.091 χ^2/NDF : 38338.7/56

Out: 779.798+/-0.090 χ^2/NDF : 44644.1/59

All: 778.650+/-0.064 χ^2/NDF : 83312.3/116

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -821.858 $\pm$ 225.040 χ^2/NDF : 52.2/33

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

Right Out: 928.010 $\pm$ 222.438 χ^2/NDF : 35.0/35

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

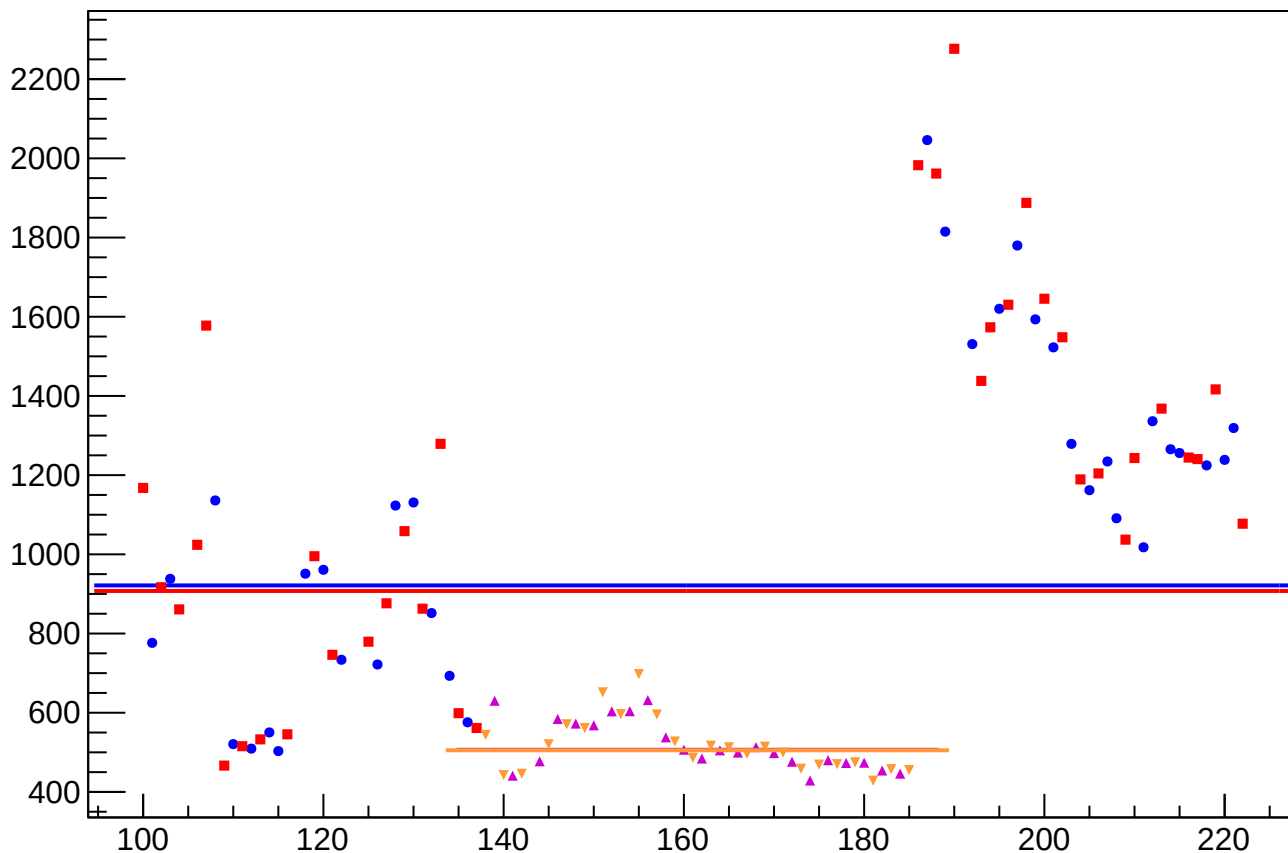
Right: 63.254 $\pm$ 158.199 χ^2/NDF : 117.8/69

In: -138.284 $\pm$ 107.284 χ^2/NDF : 92.9/56

Out: -180.318 $\pm$ 106.420 χ^2/NDF : 127.7/59

All: -159.471 $\pm$ 75.554 χ^2/NDF : 220.7/116

asym_us_dd_correction_rms vs Slug, Sign Corrected



Left: 505.796 $\pm$ 0.061 χ^2/NDF : 921978.4/46

Right: 914.425 $\pm$ 0.112 χ^2/NDF : 11395128.7/69

In: 600.726 $\pm$ 0.076 χ^2/NDF : 10689268.5/56

Out: 597.301 $\pm$ 0.075 χ^2/NDF : 11926993.7/59

All: 599.000 $\pm$ 0.053 χ^2/NDF : 22617289.6/119

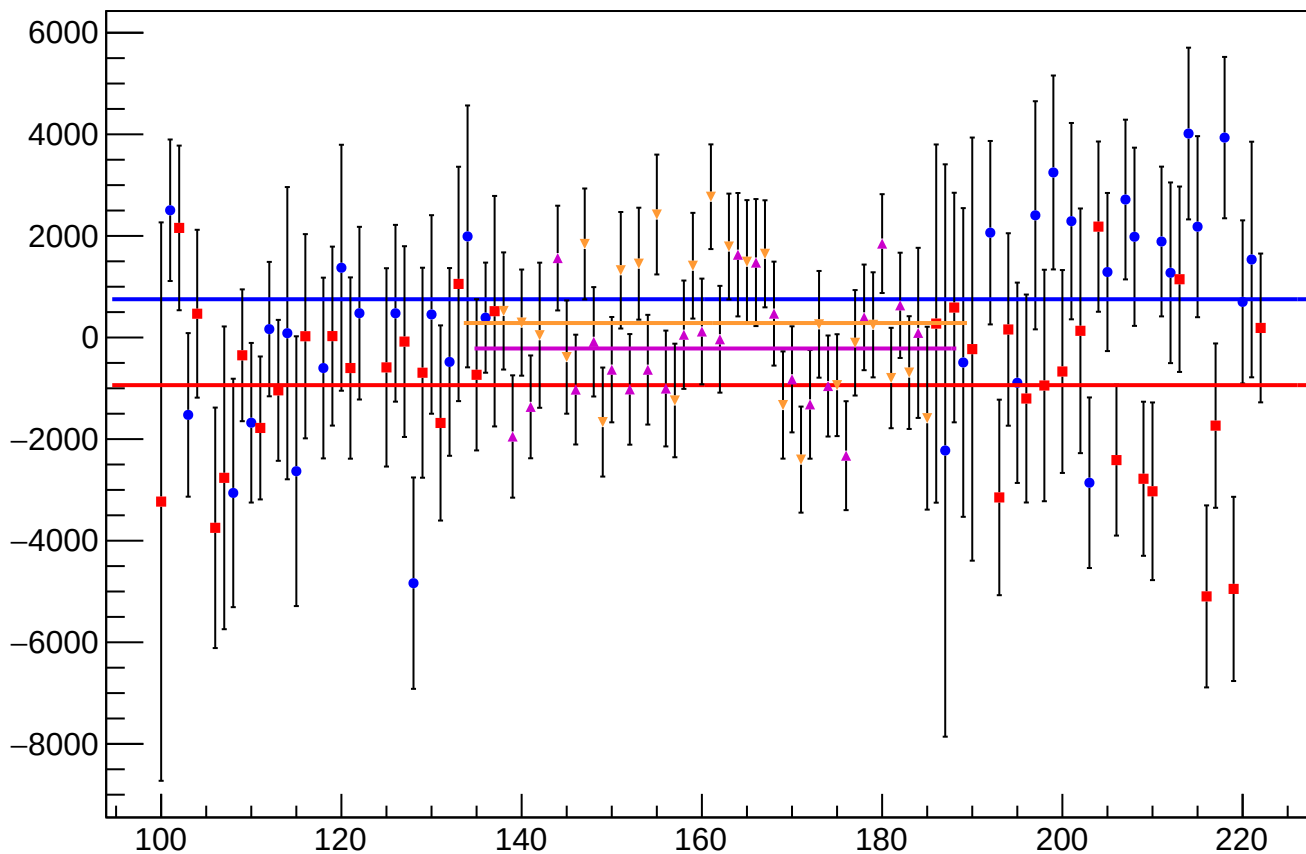
Right In: 921.503 $\pm$ 0.159 χ^2/NDF : 4994150.8/33

Left Out: 505.220 $\pm$ 0.086 χ^2/NDF : 485593.0/23

Right Out: 907.509 $\pm$ 0.157 χ^2/NDF : 6397065.8/35

Left In: 506.380 $\pm$ 0.086 χ^2/NDF : 436294.4/22

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 753.624 $\pm$ 306.559 χ^2 /NDF: 40.0/33

Left Out: 285.144 $\pm$ 224.378 χ^2 /NDF:38.3/23

Right Out: -937.721 $\pm$ 308.173 χ^2 /NDF: 31.3/35

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

Left: 35.874 $\pm$ 159.089 χ^2 /NDF: 65.2/46

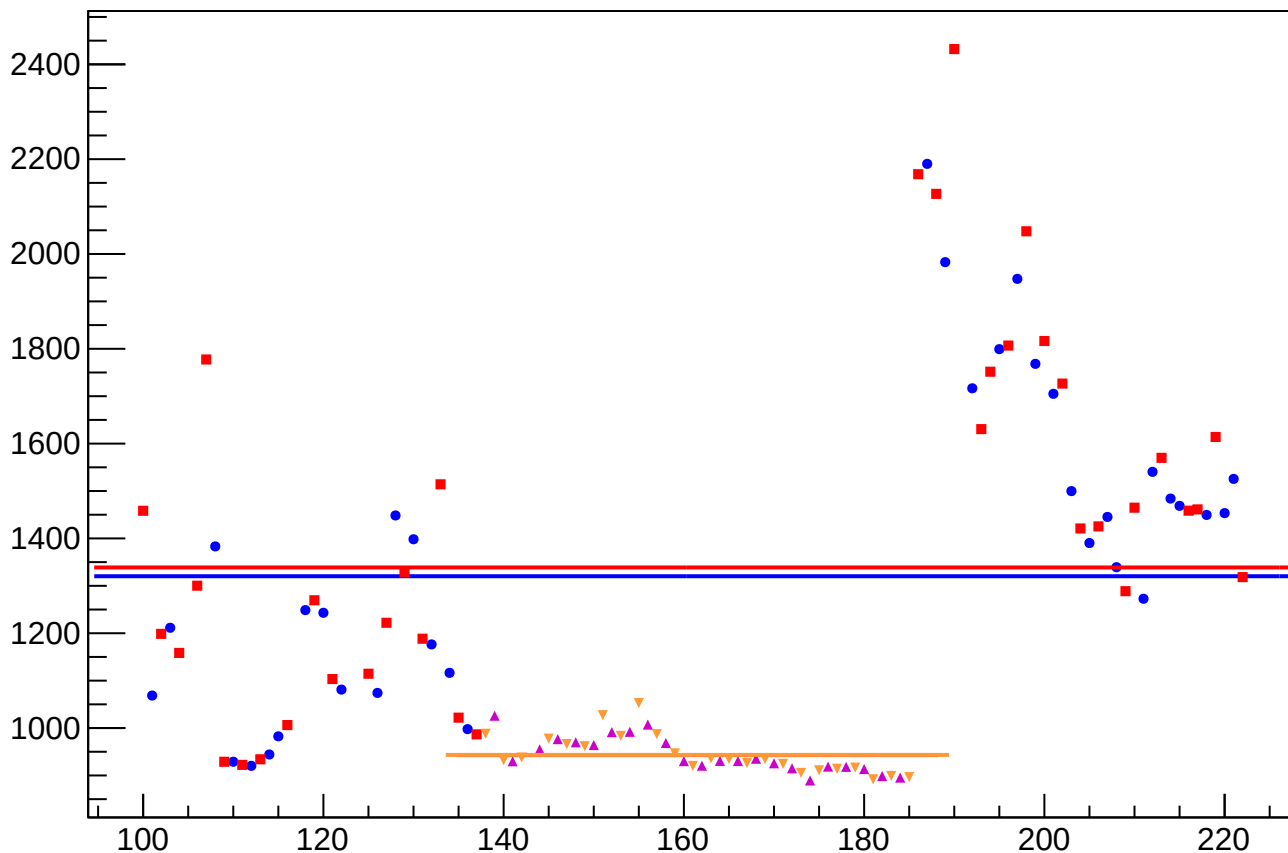
Right: -87.608 $\pm$ 217.338 χ^2 /NDF: 86.4/69

In: 124.559 $\pm$ 181.702 χ^2 /NDF:70.9/56

Out: -138.523 $\pm$ 181.392 χ^2 /NDF:79.9/59

All: -7.206 $\pm$ 128.373 χ^2 /NDF: 151.8/116

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1320.247+/-0.217 χ^2/NDF : 1597258.8/33

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

Right Out: 1338.729+/-0.218 χ^2/NDF : 2138386.5/35

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

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

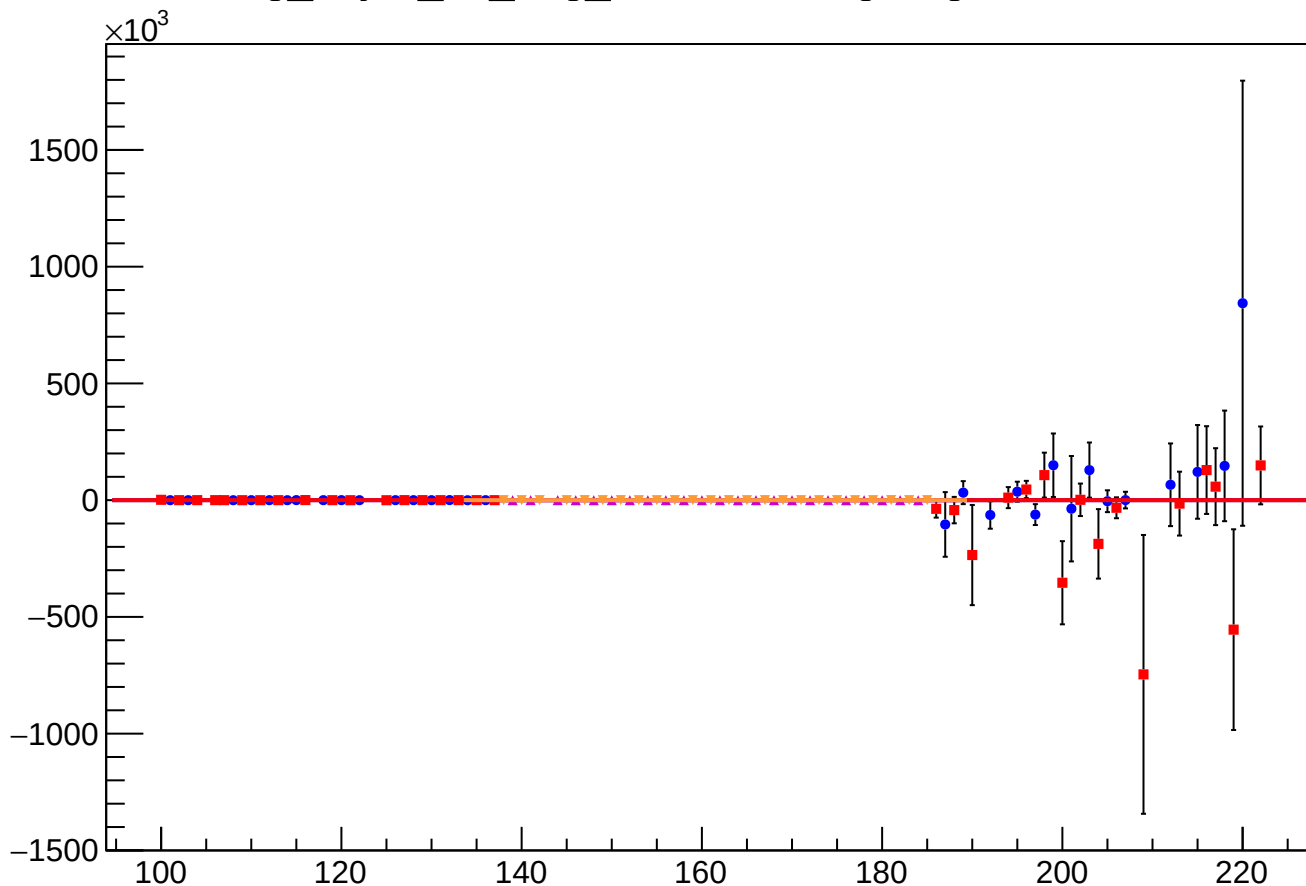
Right: 1329.440+/-0.154 χ^2/NDF : 3739260.7/69

In: 1075.483+/-0.128 χ^2/NDF : 3611108.0/56

Out: 1080.331+/-0.128 χ^2/NDF : 4350259.3/59

All: 1077.911+/-0.091 χ^2/NDF : 7962080.6/111

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.549 ± 30.032 χ^2/NDF : 24.9/29

Left Out: 3.710 ± 21.467 χ^2/NDF : 22.4/23

Right Out: 31.731 ± 30.492 χ^2/NDF : 33.0/33

Left In: -22.931 ± 21.584 χ^2/NDF : 22.5/22

Left: -9.538 ± 15.221 χ^2/NDF : 45.7/46

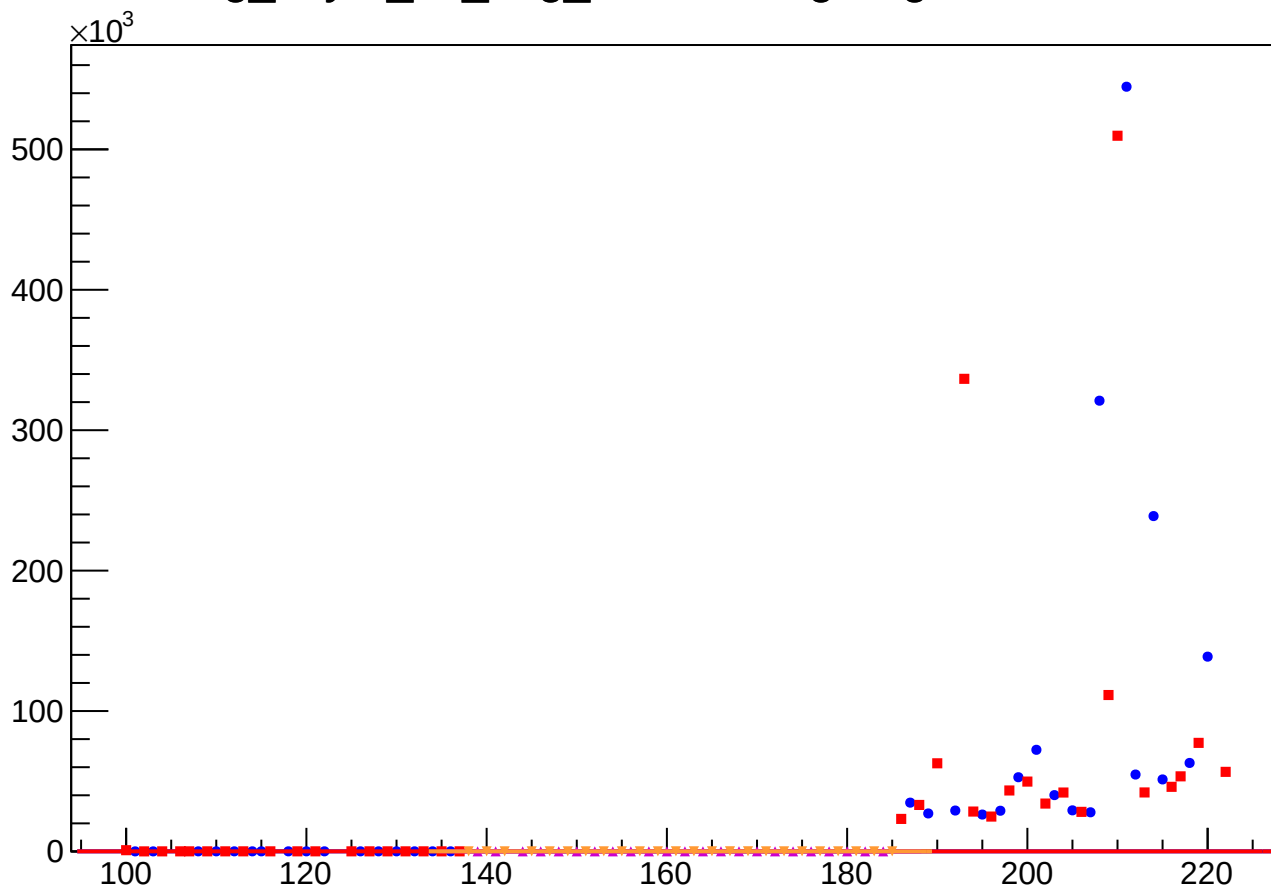
Right: 7.732 ± 21.397 χ^2/NDF : 59.1/63

In: -20.417 ± 17.527 χ^2/NDF : 47.4/52

Out: 12.997 ± 17.553 χ^2/NDF : 56.0/57

All: -3.735 ± 12.403 χ^2/NDF : 105.2/110

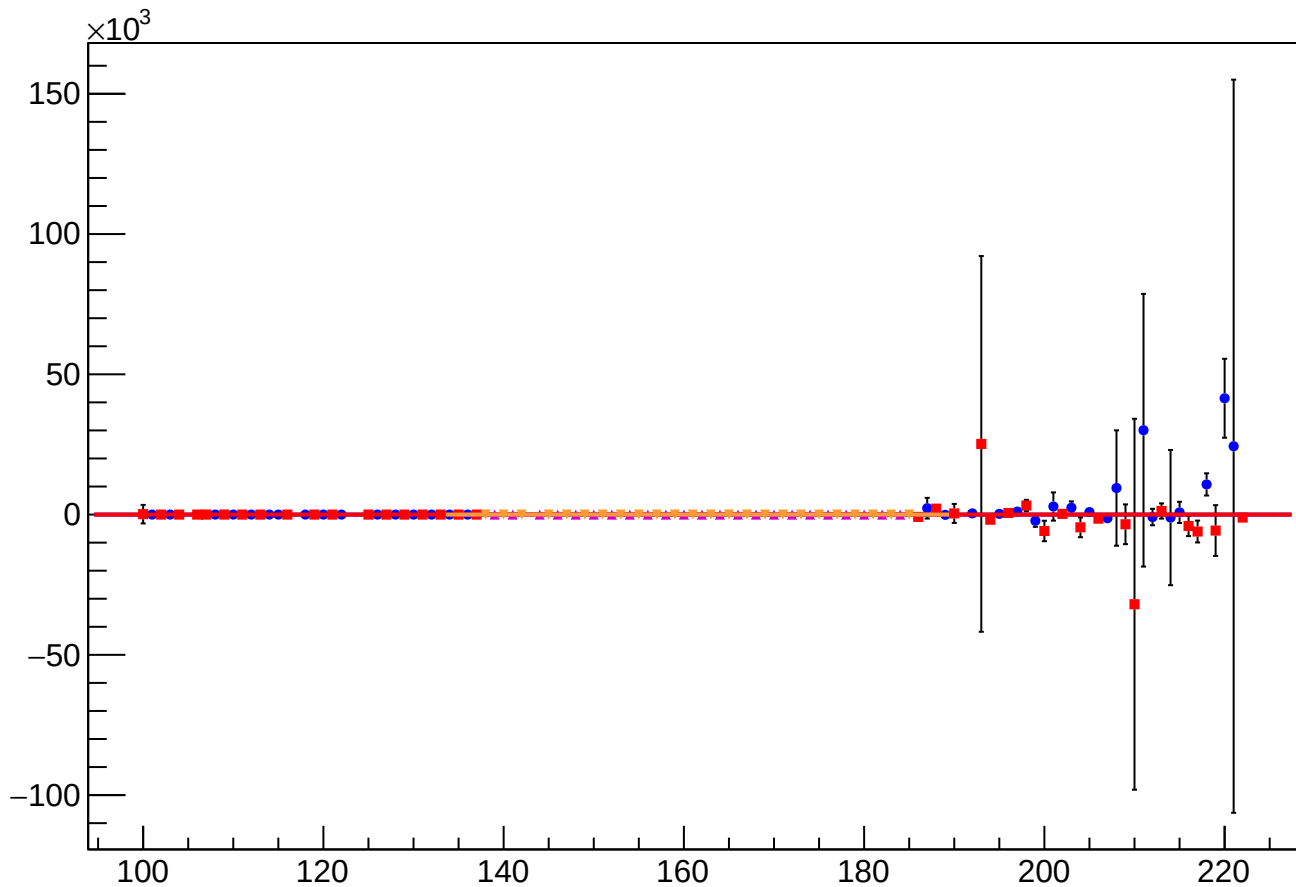
reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.143 $\pm$ 0.021 χ^2 /NDF: 6985508.9/32
 Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF:466281.5/23
 Right Out: 79.464 $\pm$ 0.022 χ^2 /NDF: 6893948.9/35
 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: 77.778 $\pm$ 0.015 χ^2 /NDF: 13891496.5/68
 In: 85.014 $\pm$ 0.012 χ^2 /NDF:7758618.2/55
 Out: 86.302 $\pm$ 0.012 χ^2 /NDF:7510698.2/59
 All: 85.657 $\pm$ 0.009 χ^2 /NDF: 15274715.0/115

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 $\chi^2/\text{NDF}: 47.7/33$

Left Out: 0.126 ± 0.377 $\chi^2/\text{NDF}: 21.3/23$

Right Out: 0.038 ± 0.525 $\chi^2/\text{NDF}: 34.4/35$

Left In: -0.519 ± 0.387 $\chi^2/\text{NDF}: 26.3/22$

Left: -0.188 ± 0.270 $\chi^2/\text{NDF}: 49.1/46$

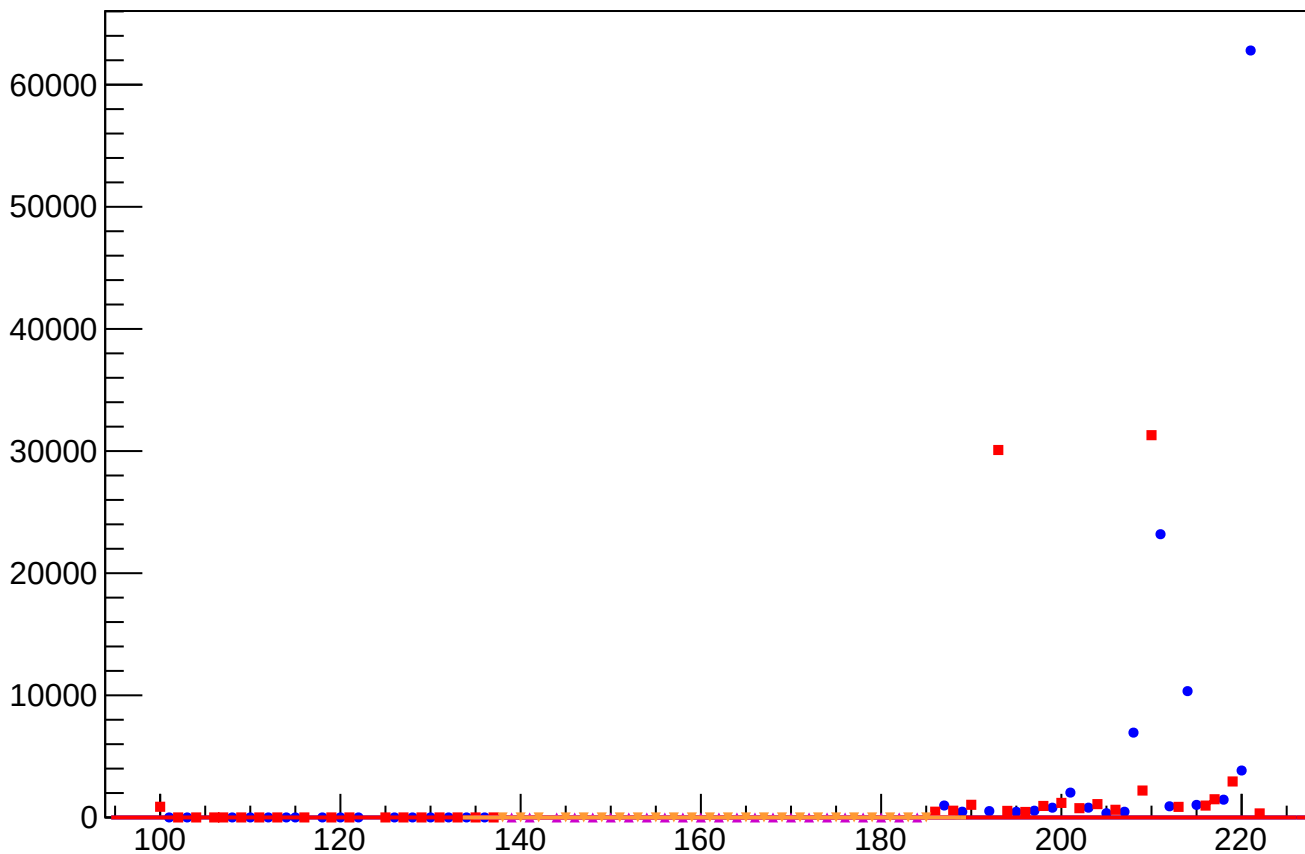
Right: -0.133 ± 0.363 $\chi^2/\text{NDF}: 82.3/69$

In: -0.433 ± 0.306 $\chi^2/\text{NDF}: 74.2/56$

Out: 0.096 ± 0.306 $\chi^2/\text{NDF}: 55.8/59$

All: -0.168 ± 0.217 $\chi^2/\text{NDF}: 131.4/116$

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 7634159.4/33

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

Right Out: 1.260+/-0.000 χ^2/NDF : 7586245.7/35

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

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

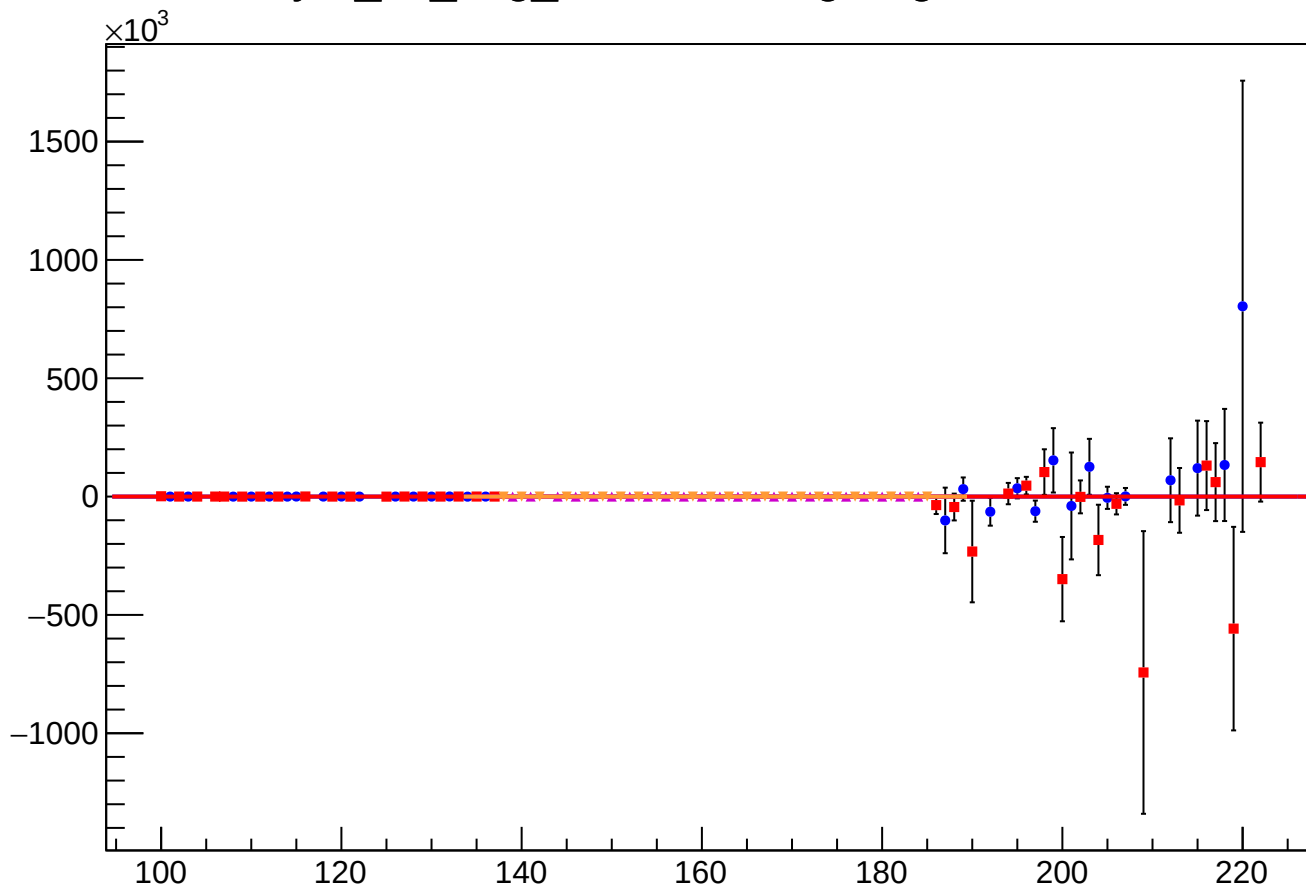
Right: 1.204+/-0.000 χ^2/NDF : 15263838.4/69

In: 1.341+/-0.000 χ^2/NDF : 9078068.3/56

Out: 1.358+/-0.000 χ^2/NDF : 8678712.9/59

All: 1.350+/-0.000 χ^2/NDF : 17759752.6/116

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.487 ± 30.040 χ^2/NDF : 24.9/29

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

Right Out: 32.012 ± 30.500 χ^2/NDF : 32.7/33

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

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

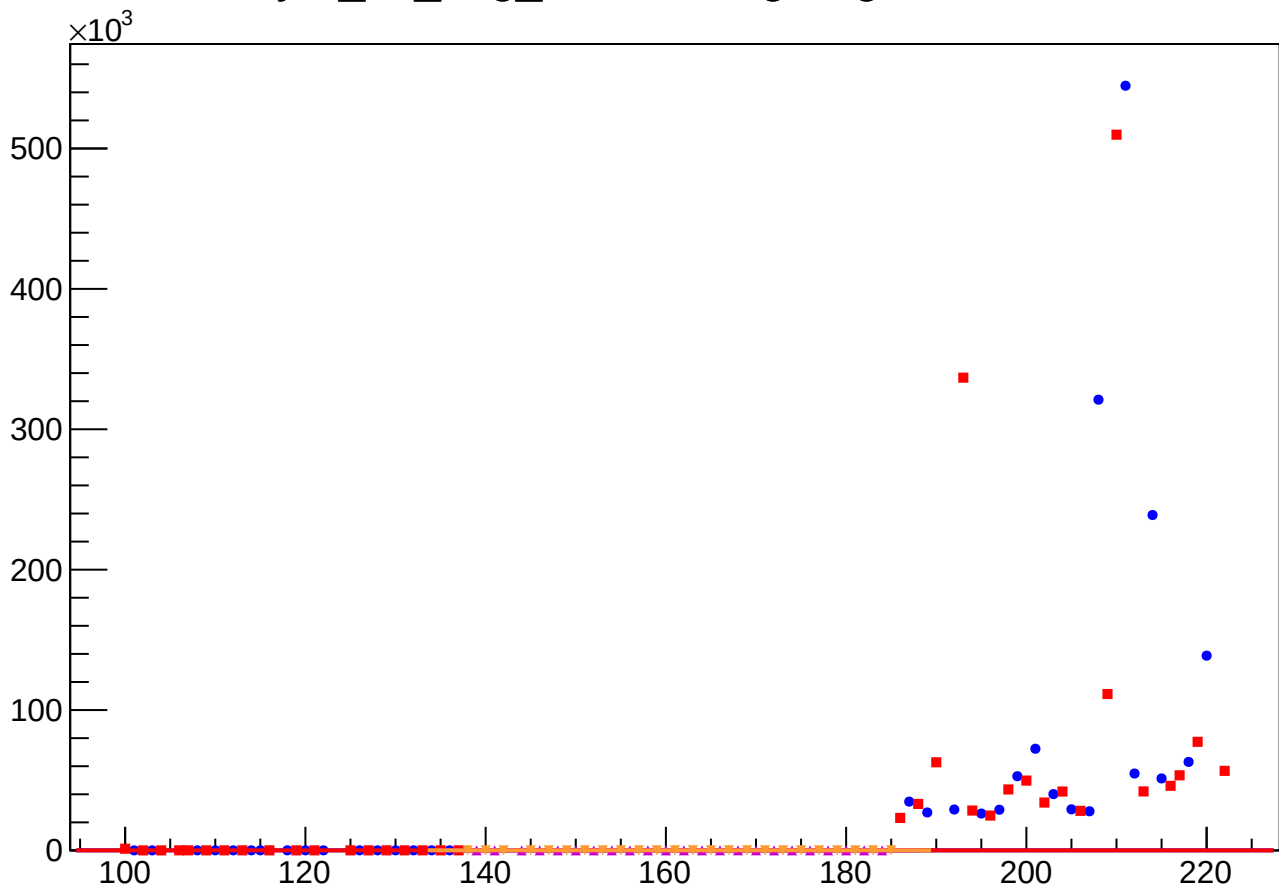
Right: 8.409 ± 21.402 χ^2/NDF : 58.8/63

In: -19.735 ± 17.532 χ^2/NDF : 47.3/52

Out: 12.947 ± 17.559 χ^2/NDF : 55.4/57

All: -3.418 ± 12.407 χ^2/NDF : 104.4/110

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.163 $\pm$ 0.021 χ^2 /NDF: 6985637.0/32

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

Right Out: 79.467 $\pm$ 0.022 χ^2 /NDF: 6900562.1/35

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

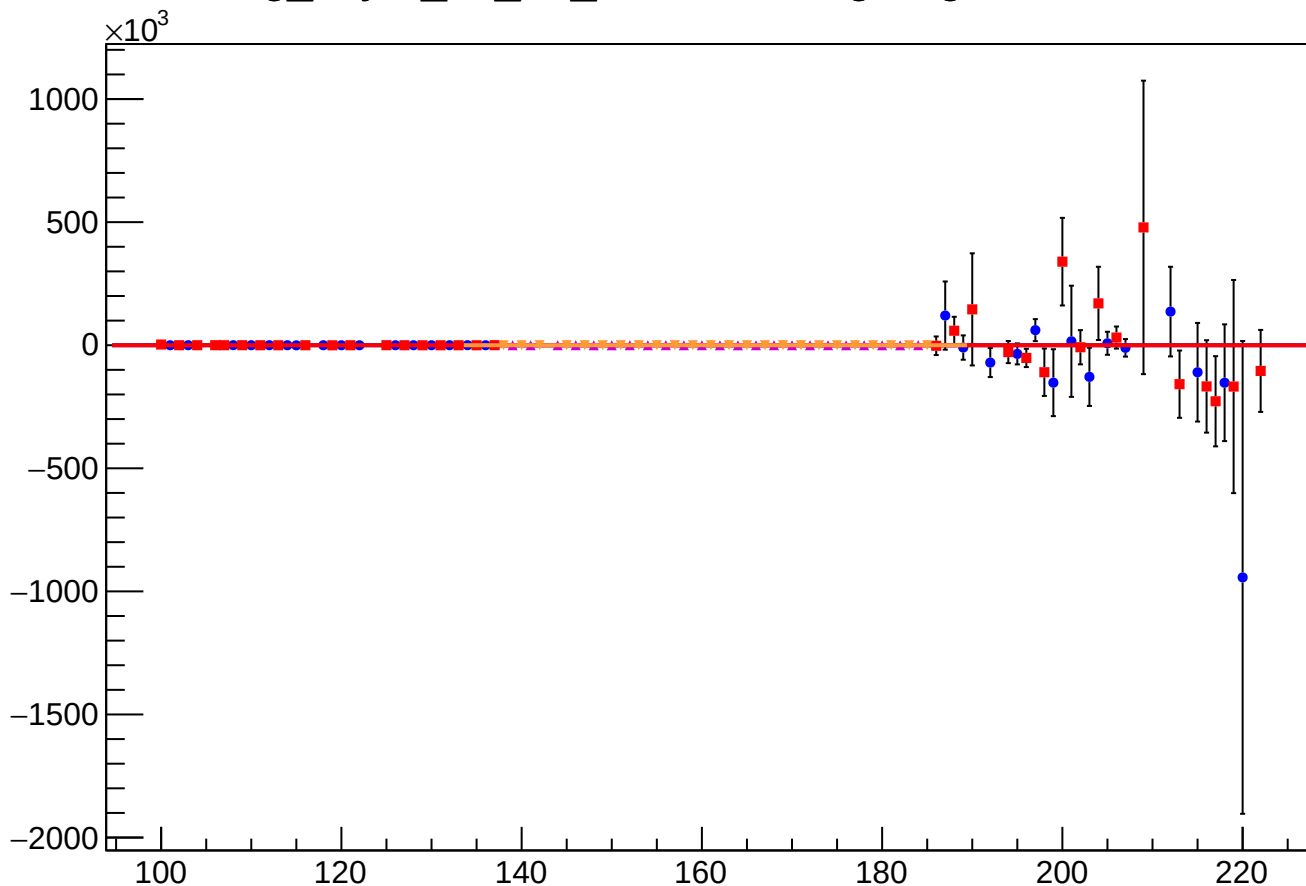
Right: 77.790 $\pm$ 0.015 χ^2 /NDF: 13898112.6/68

In: 85.038 $\pm$ 0.012 χ^2 /NDF: 7759749.1/55

Out: 86.321 $\pm$ 0.012 χ^2 /NDF: 7518654.3/59

All: 85.678 $\pm$ 0.009 χ^2 /NDF: 15283756.0/115

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.086 ± 30.012 χ^2/NDF : 23.6/29

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

Right Out: -25.806 ± 30.473 χ^2/NDF : 28.2/33

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

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

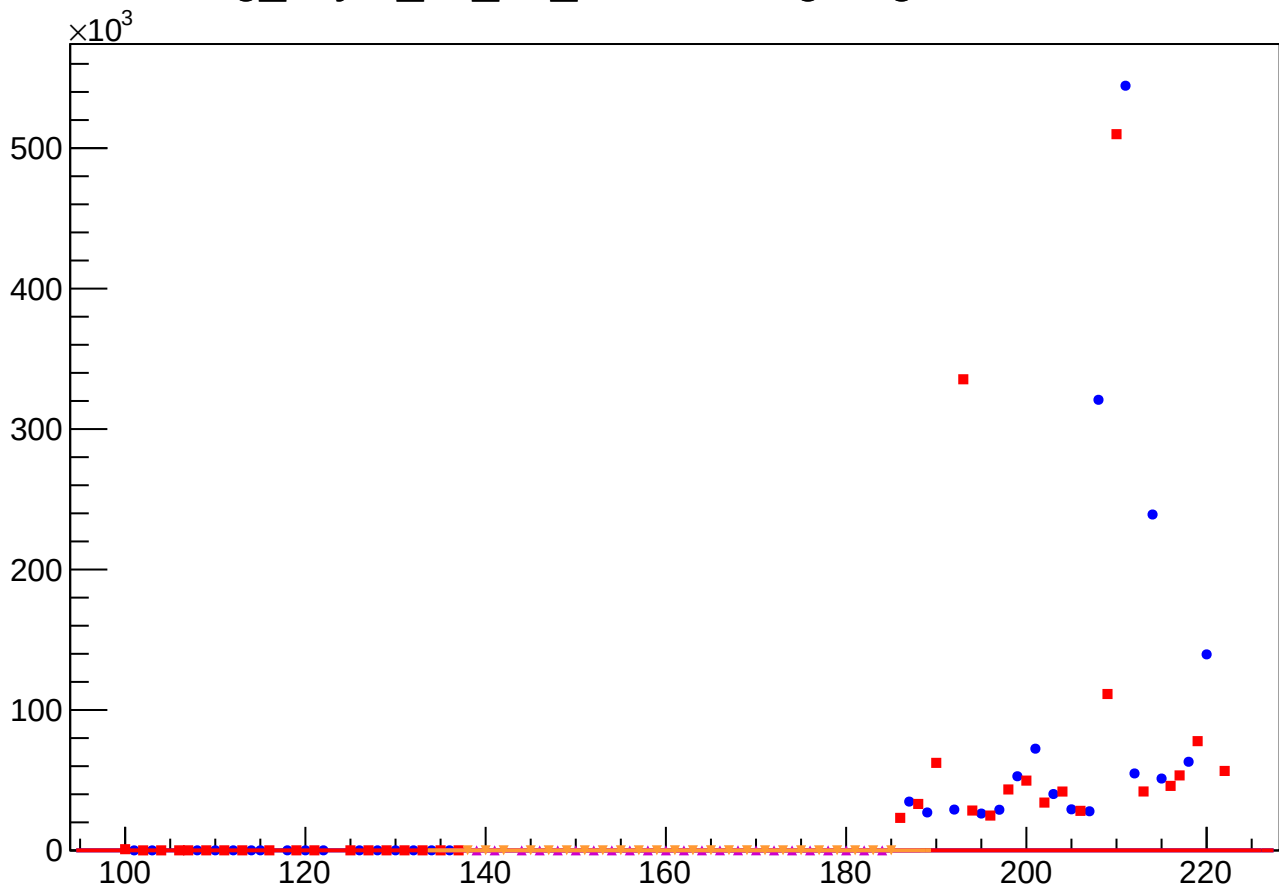
Right: -8.602 ± 21.383 χ^2/NDF : 52.4/63

In: 31.370 ± 17.528 χ^2/NDF : 56.0/52

Out: 1.644 ± 17.552 χ^2/NDF : 46.6/57

All: 16.528 ± 12.403 χ^2/NDF : 104.0/110

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.094 $\pm$ 0.021 χ^2 /NDF: 6985314.9/32

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

Right Out: 79.415 $\pm$ 0.022 χ^2 /NDF: 6893120.3/35

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

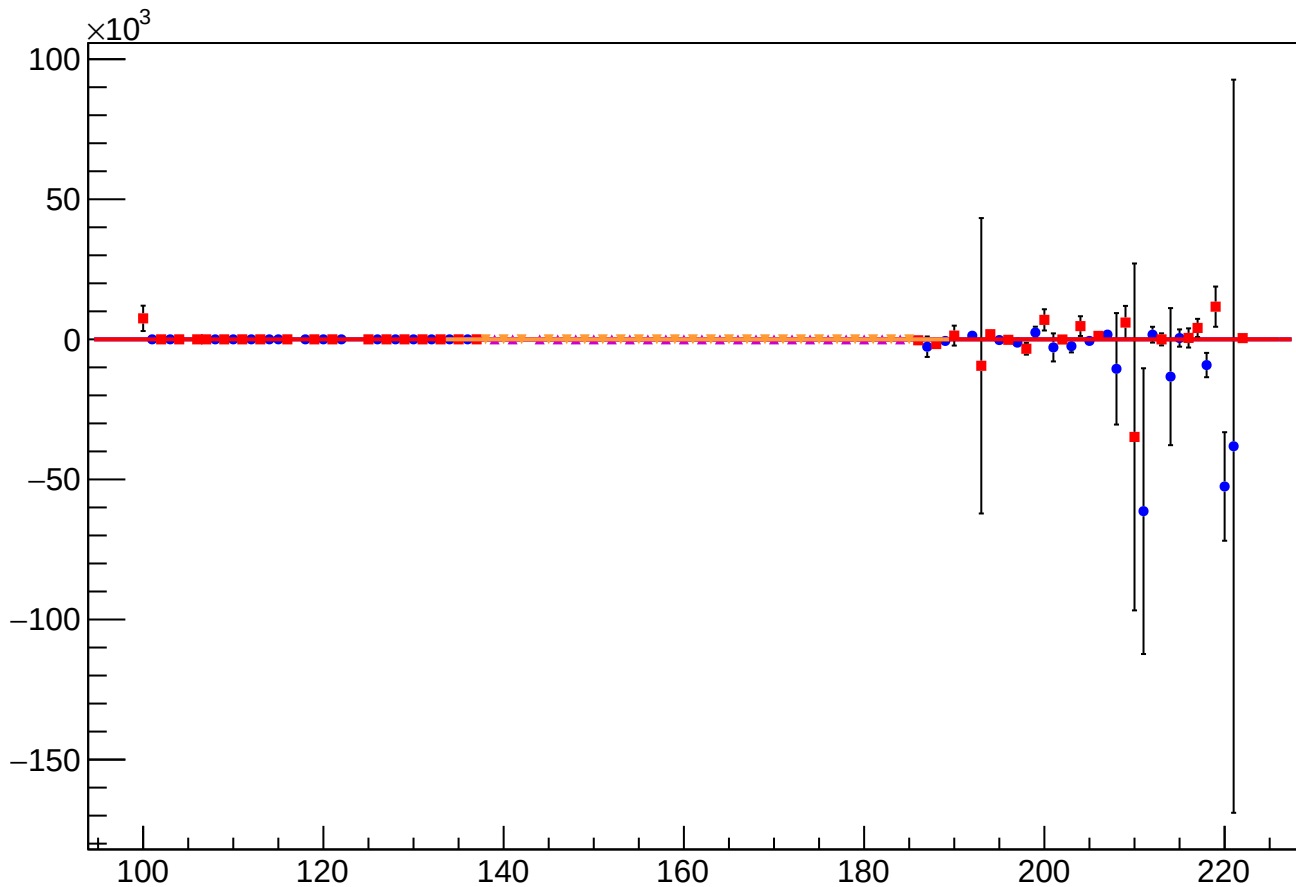
Right: 77.729 $\pm$ 0.015 χ^2 /NDF: 13890494.9/68

In: 85.011 $\pm$ 0.012 χ^2 /NDF: 7764332.2/55

Out: 86.296 $\pm$ 0.012 χ^2 /NDF: 7510808.5/59

All: 85.653 $\pm$ 0.009 χ^2 /NDF: 15280501.6/115

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 χ^2/NDF : 39.7/33

Left Out: -0.516 ± 0.391 χ^2/NDF : 20.7/23

Right Out: 0.348 ± 0.549 χ^2/NDF : 36.5/35

Left In: -0.072 ± 0.390 χ^2/NDF : 20.4/22

Left: -0.293 ± 0.276 χ^2/NDF : 41.7/46

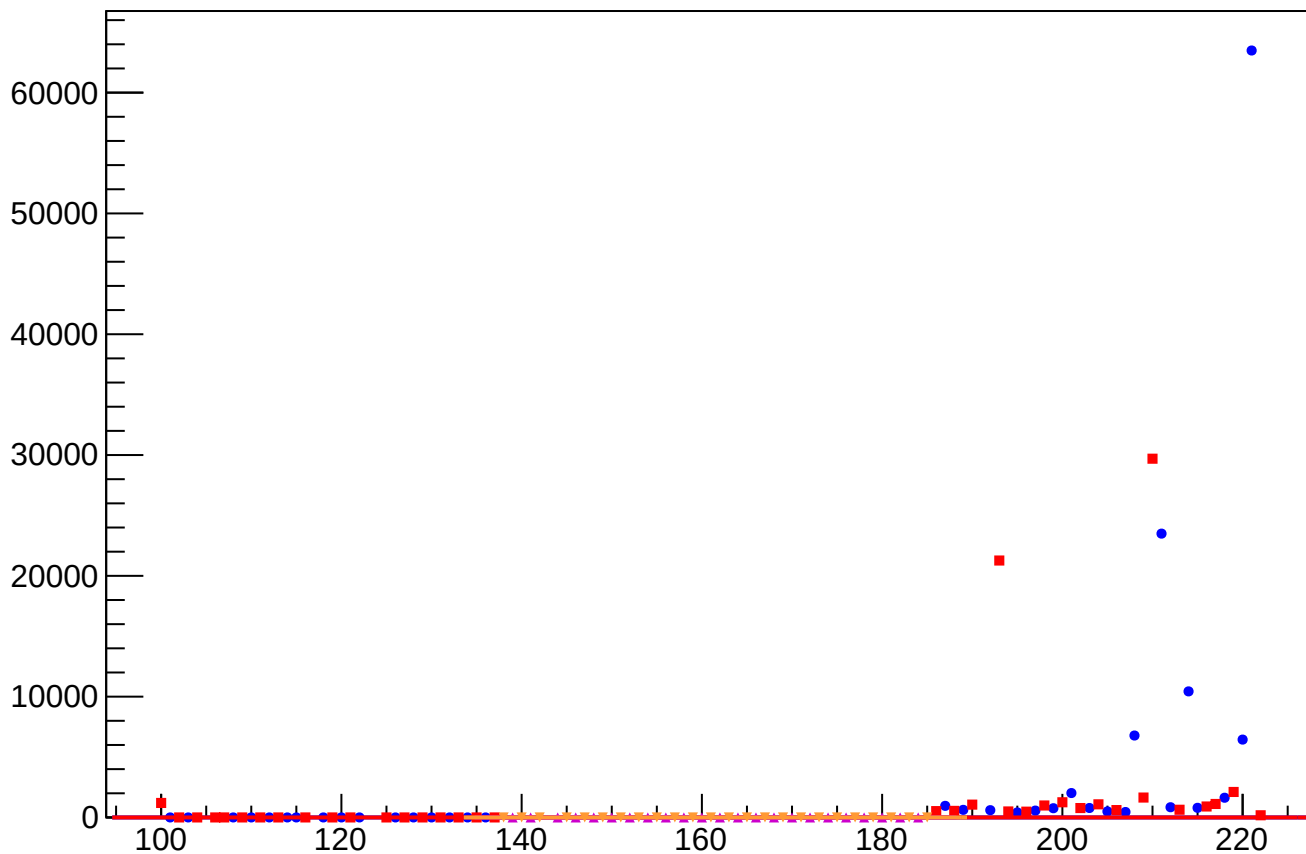
Right: 0.629 ± 0.382 χ^2/NDF : 76.7/69

In: 0.266 ± 0.315 χ^2/NDF : 62.2/56

Out: -0.225 ± 0.318 χ^2/NDF : 58.8/59

All: 0.024 ± 0.224 χ^2/NDF : 122.3/116

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7951335.6/33

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

Right Out: 1.317+/-0.000 χ^2/NDF : 7343477.0/35

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

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

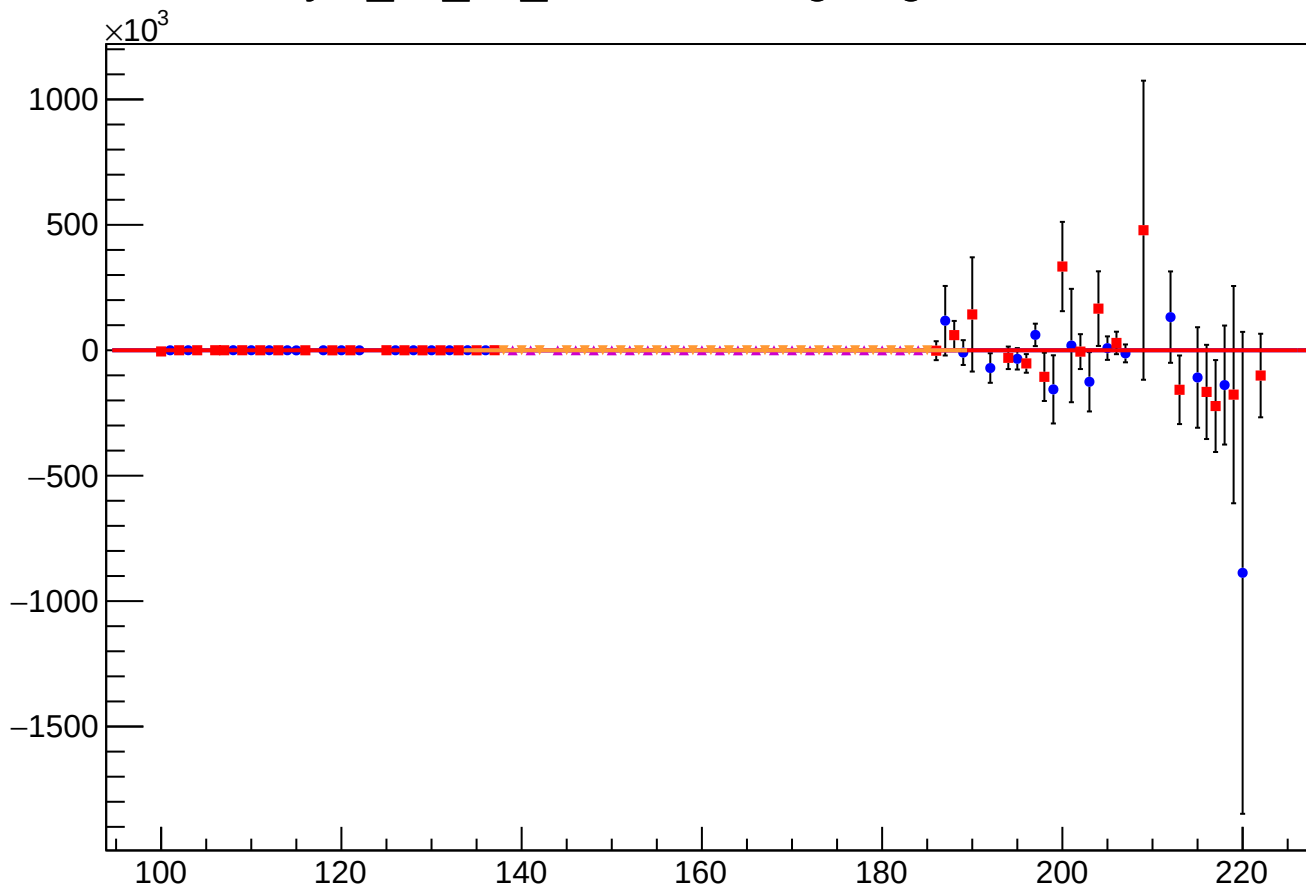
Right: 1.274+/-0.000 χ^2/NDF : 15318042.3/69

In: 1.382+/-0.000 χ^2/NDF : 9236226.0/56

Out: 1.419+/-0.000 χ^2/NDF : 8602167.1/59

All: 1.400+/-0.000 χ^2/NDF : 17852043.9/116

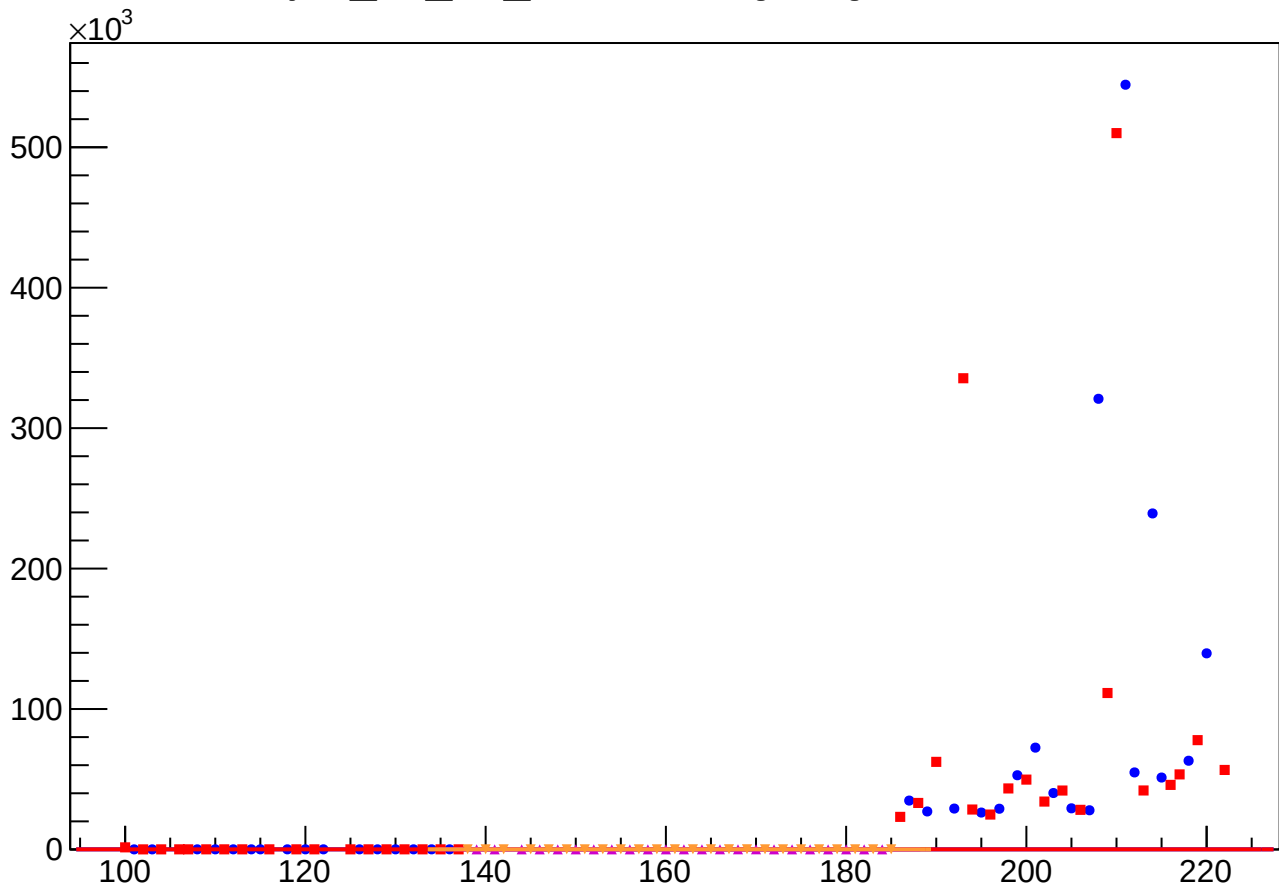
asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.378 ± 30.020 $\chi^2/NDF: 23.2/29$
 Left Out: 15.770 ± 21.479 $\chi^2/NDF: 17.1/23$
 Right Out: -26.417 ± 30.482 $\chi^2/NDF: 28.1/33$
 Left In: 43.905 ± 21.600 $\chi^2/NDF: 31.1/22$

Left: 29.758 ± 15.231 $\chi^2/NDF: 49.0/46$
 Right: -9.262 ± 21.389 $\chi^2/NDF: 52.0/63$
 In: 31.445 ± 17.533 $\chi^2/NDF: 55.3/52$
 Out: 1.773 ± 17.558 $\chi^2/NDF: 46.5/57$
 All: 16.630 ± 12.407 $\chi^2/NDF: 103.2/110$

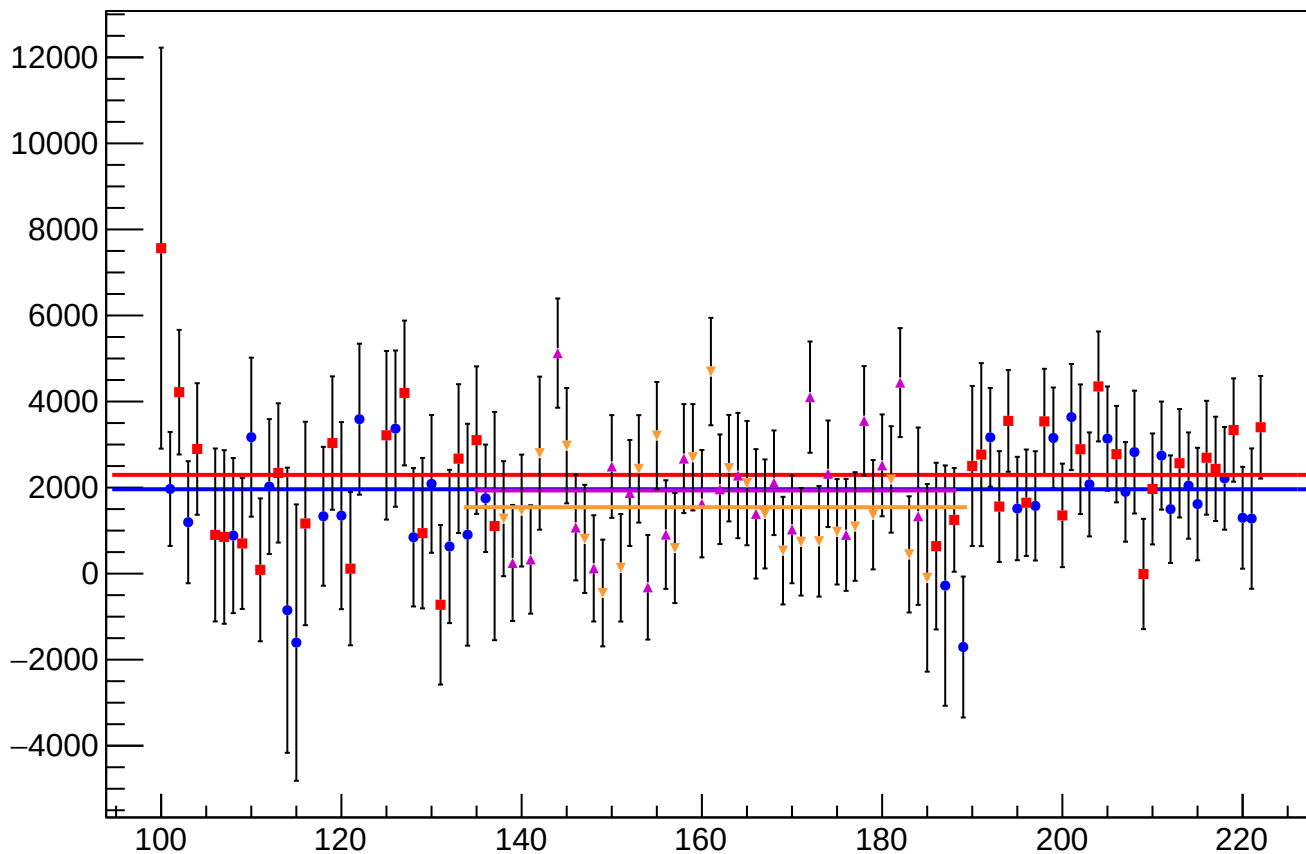
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.114 $\pm$ 0.021 χ^2 /NDF: 6985506.8/32
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.412 $\pm$ 0.022 χ^2 /NDF: 6902416.3/35
 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: 77.738 $\pm$ 0.015 χ^2 /NDF: 13899803.3/68
 In: 85.036 $\pm$ 0.012 χ^2 /NDF: 7765426.5/55
 Out: 86.313 $\pm$ 0.012 χ^2 /NDF: 7521675.8/59
 All: 85.674 $\pm$ 0.009 χ^2 /NDF: 15292400.1/115

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1961.069+/-248.181 χ^2/NDF : 18.3/33

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

Right Out: 2295.377+/-244.626 χ^2/NDF : 27.1/36

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

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

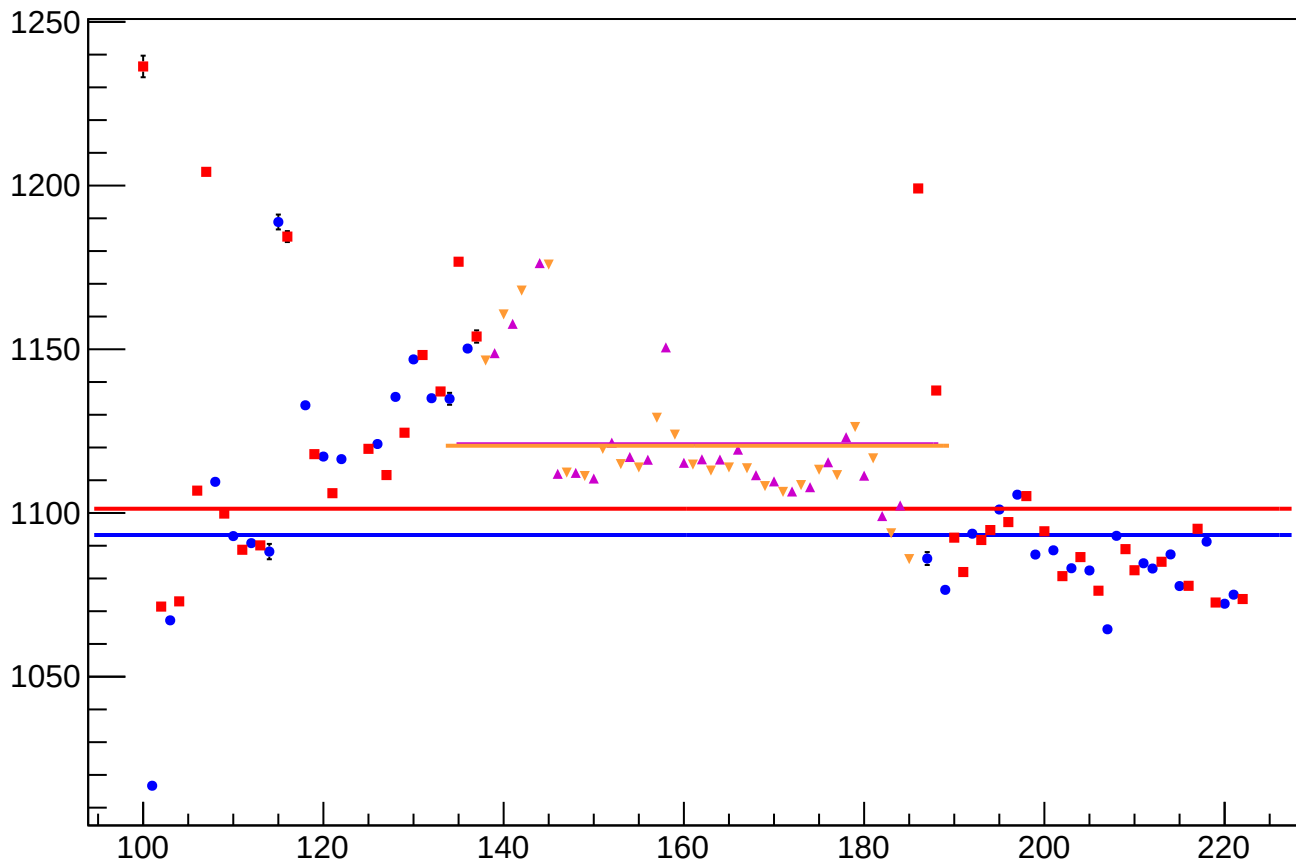
Right: 2130.635+/-174.220 χ^2/NDF : 46.3/70

In: 1948.111+/-182.096 χ^2/NDF : 45.3/56

Out: 1951.510+/-180.143 χ^2/NDF : 51.4/60

All: 1949.829+/-128.065 χ^2/NDF : 96.7/117

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1093.277 $\pm$ 0.175 χ^2 /NDF: 24524.1/33

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

Right Out: 1101.299 $\pm$ 0.173 χ^2 /NDF: 31613.7/36

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

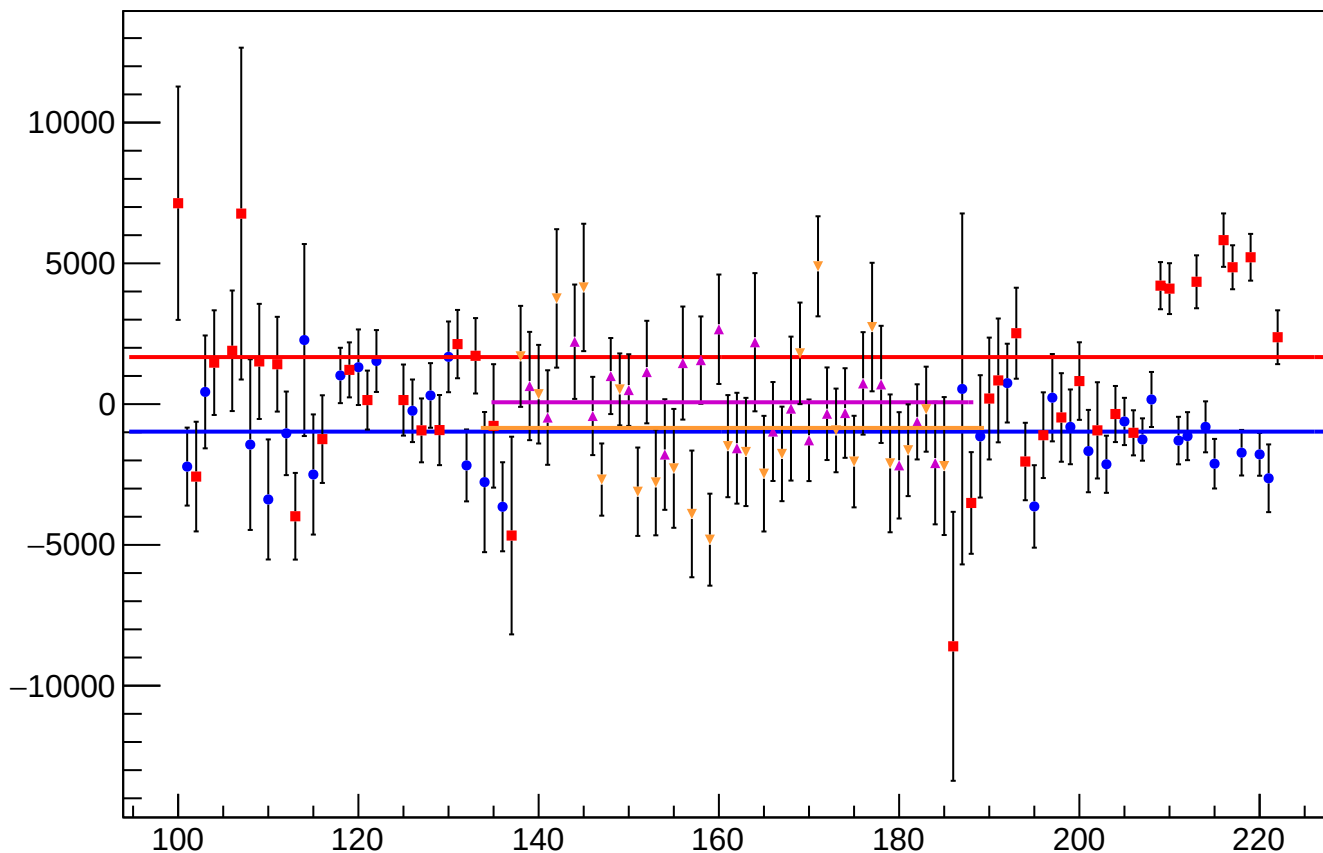
Right: 1097.346 $\pm$ 0.123 χ^2 /NDF: 57197.7/70

In: 1106.071 $\pm$ 0.129 χ^2 /NDF:45679.4/56

Out: 1110.107 $\pm$ 0.127 χ^2 /NDF:47531.3/60

All: 1108.111 $\pm$ 0.091 χ^2 /NDF: 93707.3/117

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -976.806+/-200.943 χ^2/NDF : 41.1/33

Left Out: -845.009+/-361.141 χ^2/NDF : 43.2/23

Right Out: 1670.619+/-209.188 χ^2/NDF : 165.8/36

Left In: 65.738+/-358.785 χ^2/NDF : 12.1/22

Left: -386.655+/-254.528 χ^2/NDF : 58.6/46

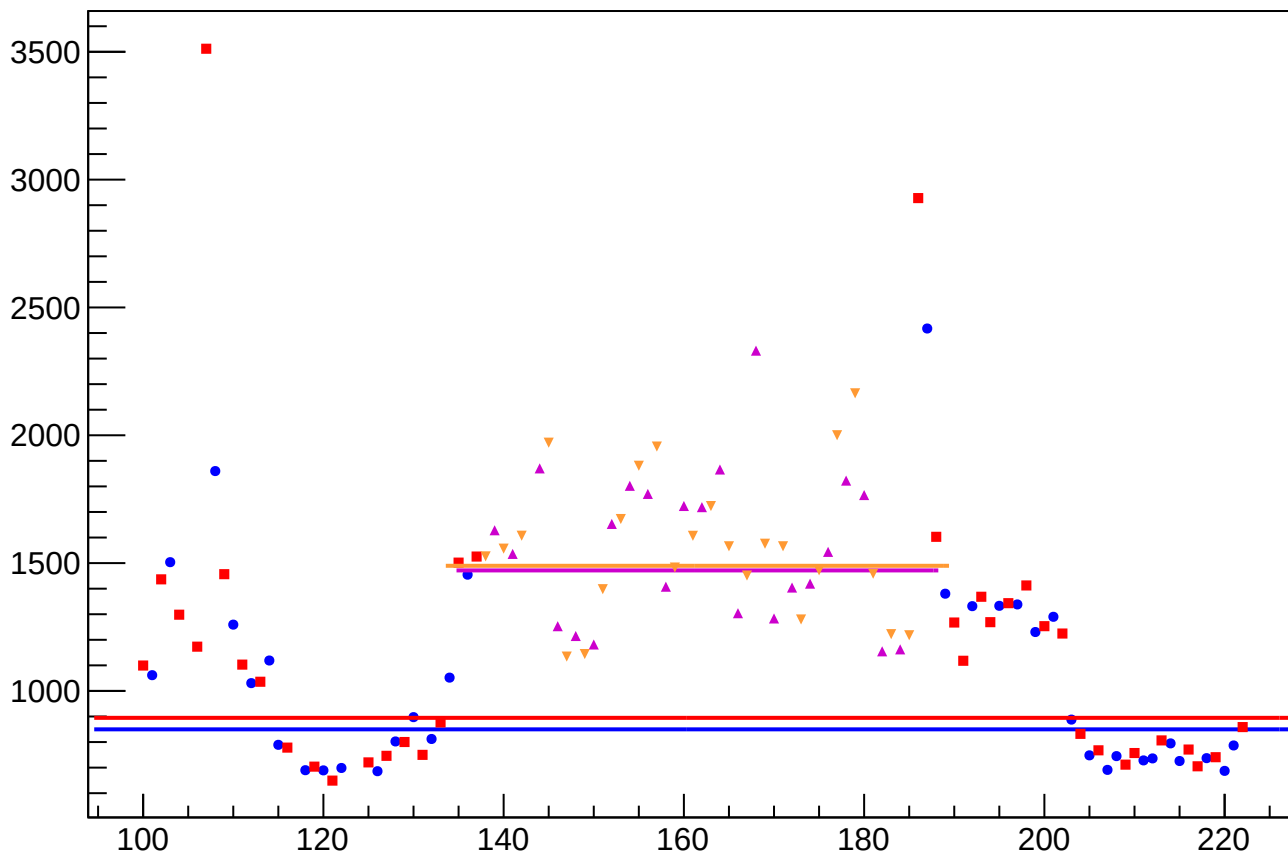
Right: 293.704+/-144.915 χ^2/NDF : 290.2/70

In: -727.873+/-175.319 χ^2/NDF : 59.7/56

Out: 1038.622+/-181.014 χ^2/NDF : 245.3/60

All: 127.150+/-125.934 χ^2/NDF : 354.2/117

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 849.725+/-0.142 χ^2/NDF : 2724833.3/33

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

Right Out: 894.748+/-0.148 χ^2/NDF : 3520895.7/36

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

Left: 1480.391+/-0.180 χ^2/NDF : 2117070.9/46

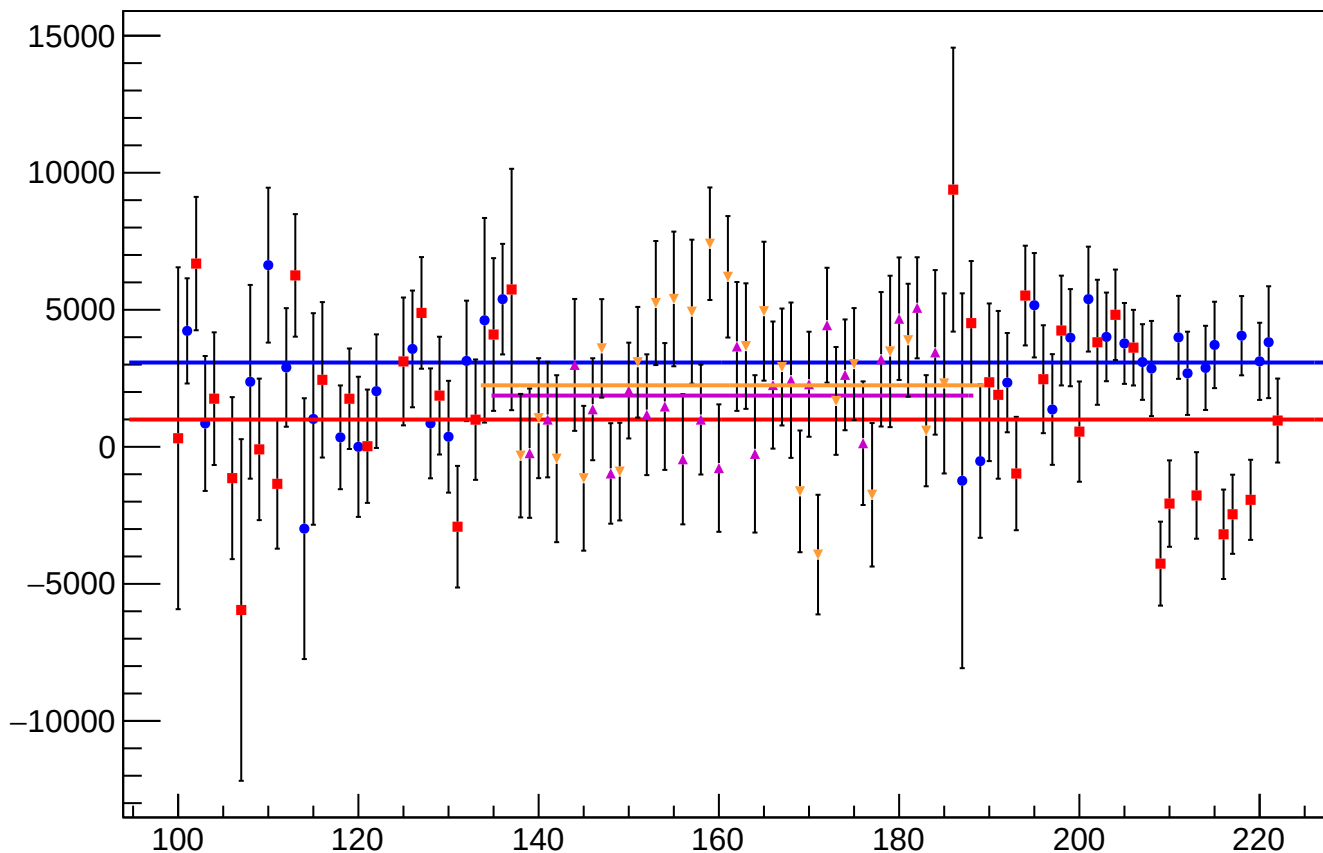
Right: 871.332+/-0.102 χ^2/NDF : 6293914.1/70

In: 998.164+/-0.124 χ^2/NDF :8400934.1/56

Out: 1044.169+/-0.128 χ^2/NDF :8591819.0/60

All: 1020.431+/-0.089 χ^2/NDF : 17059410.7/1

asym_usl_mean vs Slug, Sign Corrected



Right In: 3076.234+/-332.419 χ^2/NDF : 20.7/33

Left Out: 2244.415+/-456.474 χ^2/NDF : 38.6/23

Right Out: 996.030+/-337.317 χ^2/NDF : 86.0/36

Left In: 1869.792+/-455.465 χ^2/NDF : 14.9/22

Left: 2056.689+/-322.419 χ^2/NDF : 53.8/46

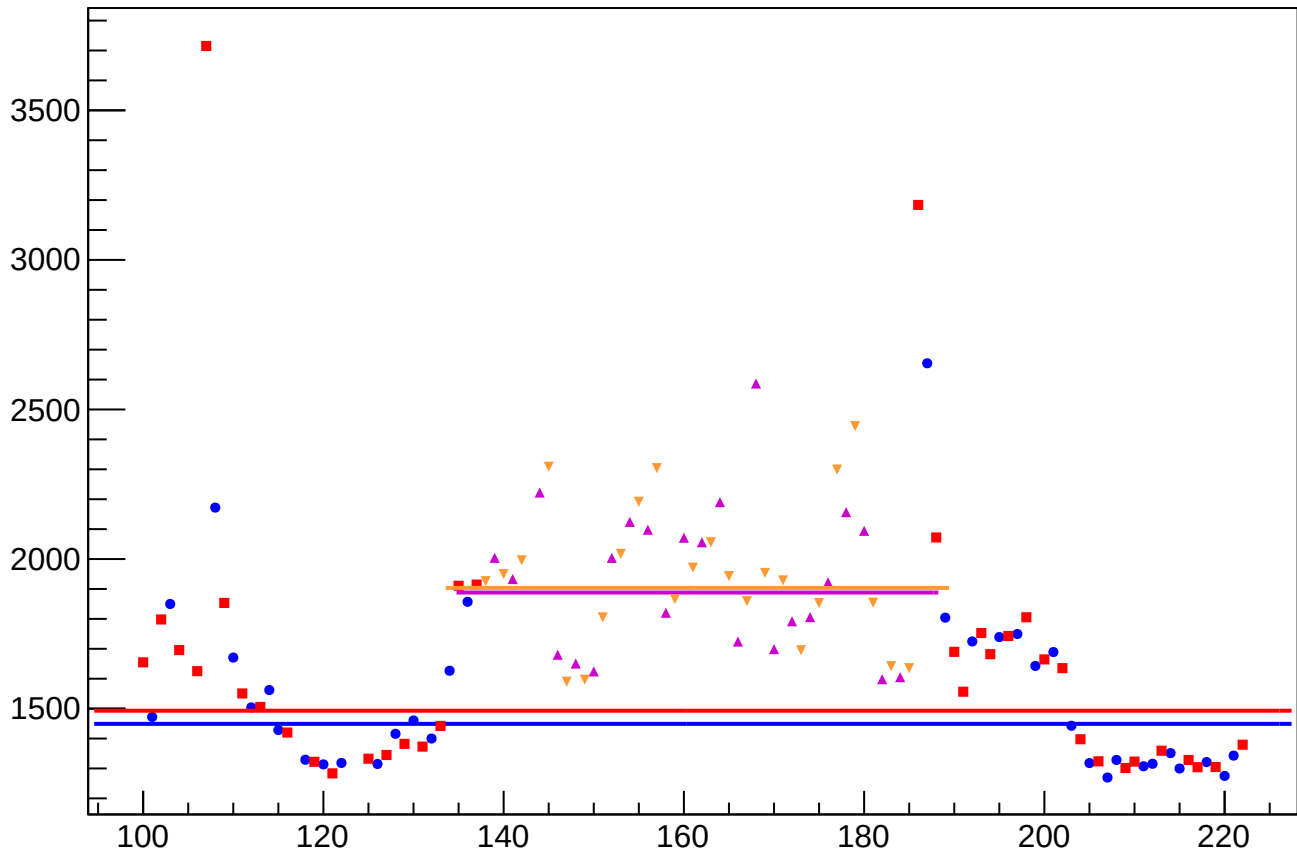
Right: 2051.344+/-236.769 χ^2/NDF : 126.0/70

In: 2656.940+/-268.510 χ^2/NDF : 40.1/56

Out: 1436.955+/-271.284 χ^2/NDF : 129.4/60

All: 2053.216+/-190.839 χ^2/NDF : 179.7/117

asym_usl_rms vs Slug, Sign Corrected



Right In: 1449.093+/-0.235 χ^2/NDF : 725678.4/33

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

Right Out: 1493.089+/-0.239 χ^2/NDF : 1197826.4/36

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

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

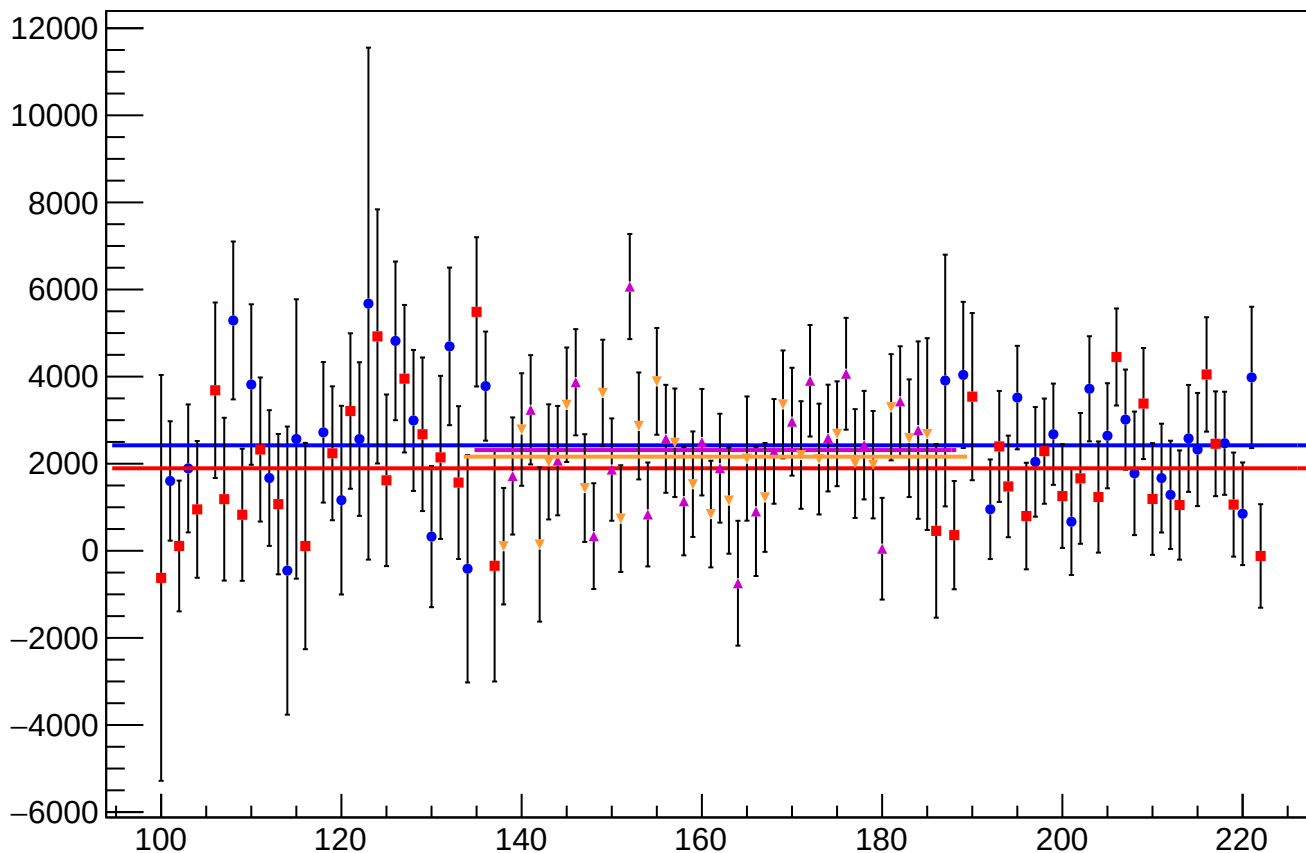
Right: 1470.769+/-0.167 χ^2/NDF : 1940765.6/70

In: 1601.675+/-0.190 χ^2/NDF : 2442674.3/56

Out: 1638.073+/-0.192 χ^2/NDF : 2705728.0/60

All: 1619.687+/-0.135 χ^2/NDF : 5166588.5/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2421.970+/-247.950 χ^2/NDF : 24.2/34

Left Out: 2161.427+/-257.518 χ^2/NDF : 15.1/24

Right Out: 1894.643+/-245.109 χ^2/NDF : 31.1/36

Left In: 2313.505+/-264.429 χ^2/NDF : 31.3/22

Left: 2235.453+/-184.488 χ^2/NDF : 46.5/47

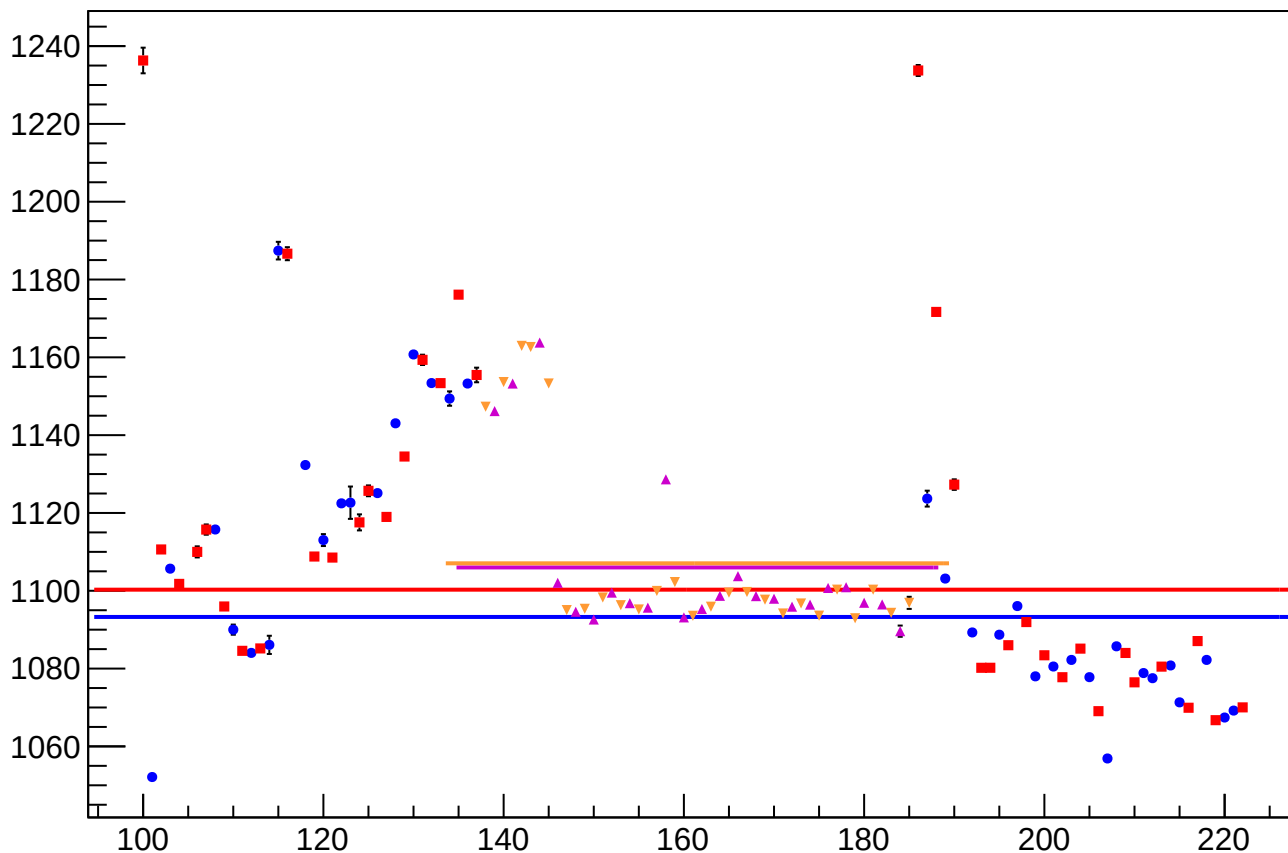
Right: 2155.267+/-174.314 χ^2/NDF : 57.6/71

In: 2371.222+/-180.873 χ^2/NDF : 55.5/57

Out: 2021.452+/-177.543 χ^2/NDF : 46.8/61

All: 2193.088+/-126.703 χ^2/NDF : 104.2/119

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1093.271 $\pm$ 0.175 χ^2 /NDF: 26100.7/34

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

Right Out: 1100.283 $\pm$ 0.173 χ^2 /NDF: 40933.4/36

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

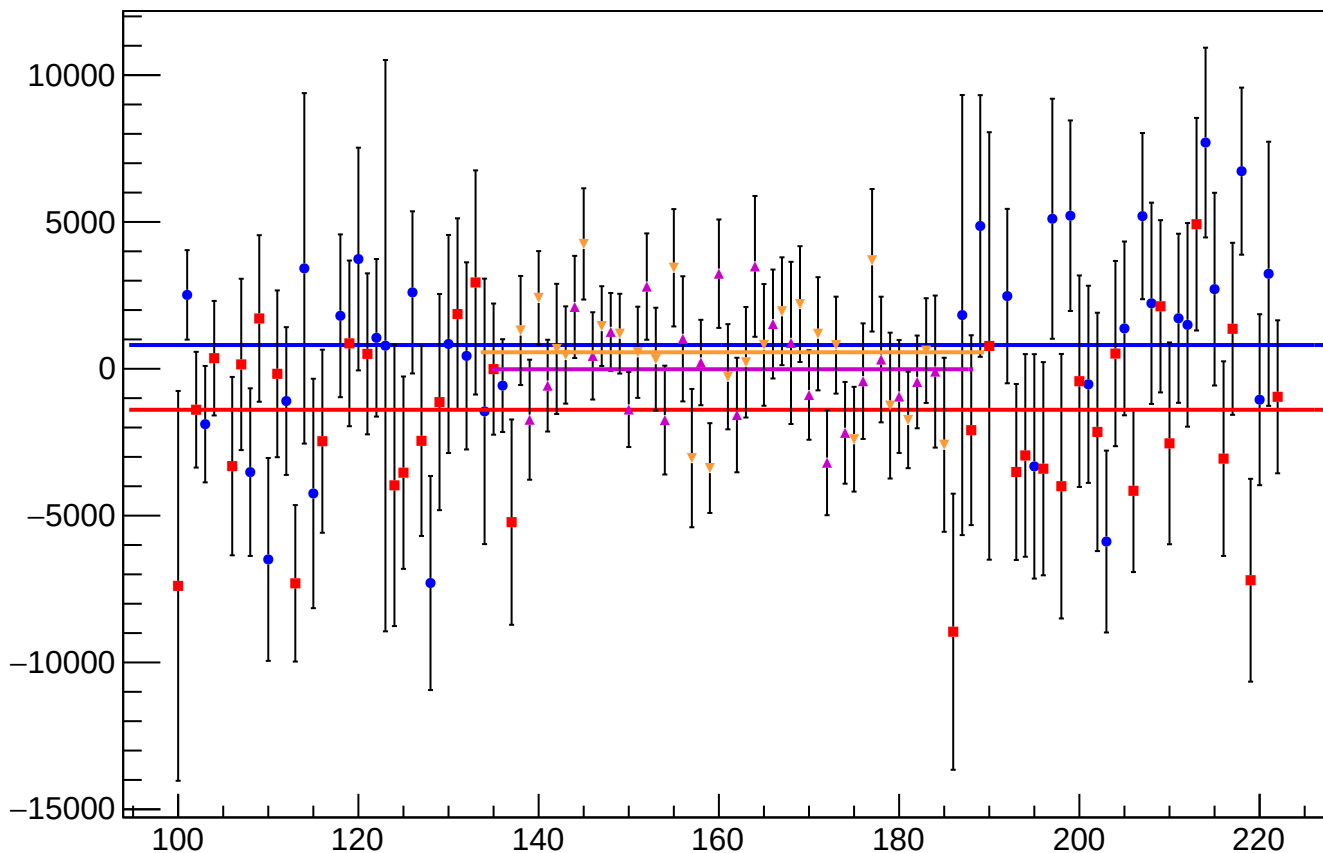
Right: 1096.817 $\pm$ 0.123 χ^2 /NDF: 67843.1/71

In: 1099.225 $\pm$ 0.128 χ^2 /NDF:40117.0/57

Out: 1103.503 $\pm$ 0.126 χ^2 /NDF:56835.0/61

All: 1101.403 $\pm$ 0.090 χ^2 /NDF: 97521.9/119

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 809.095 $\pm$ 504.750 χ^2/NDF : 42.2/34

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

Right Out: -1395.810 $\pm$ 510.538 χ^2/NDF : 28.7/36

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

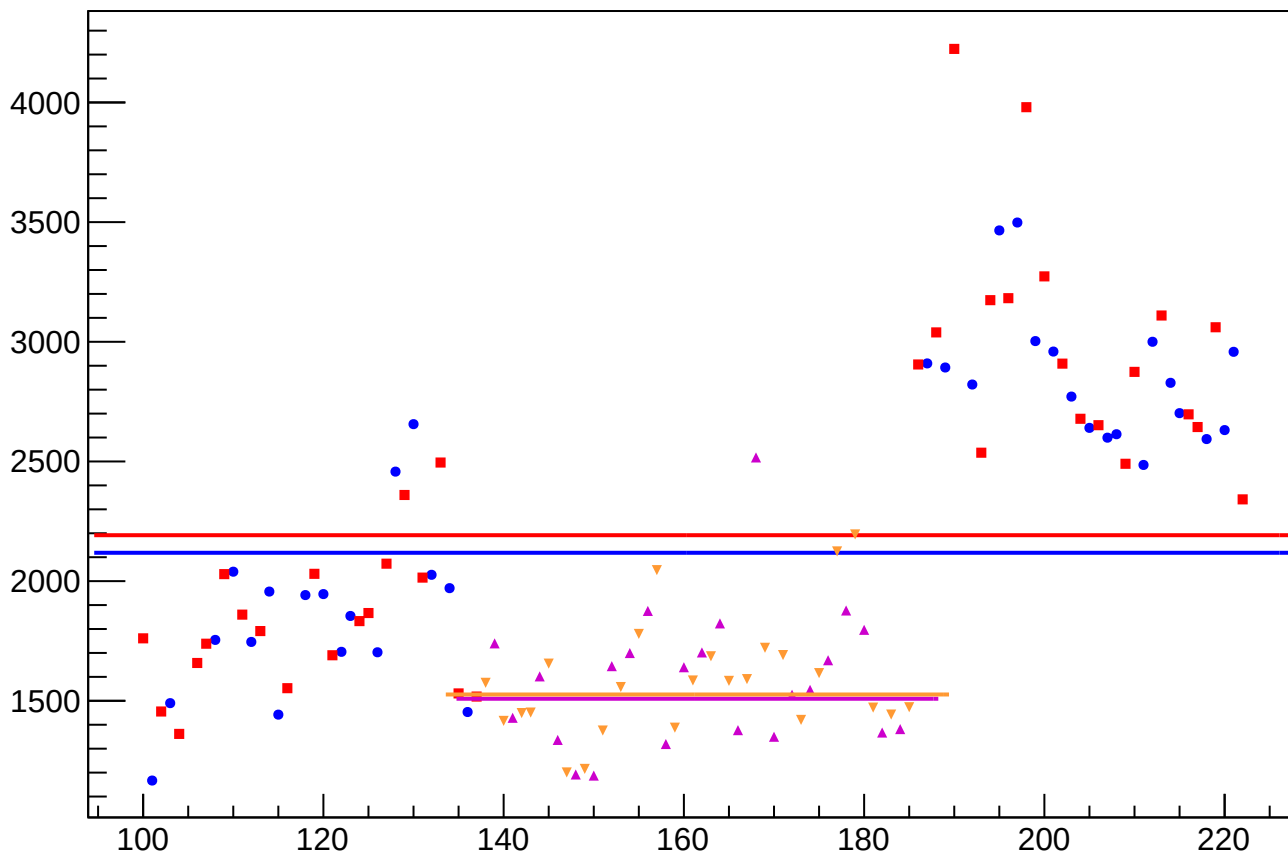
Right: -280.789 $\pm$ 358.941 χ^2/NDF : 80.3/71

In: 269.511 $\pm$ 296.755 χ^2/NDF : 64.1/57

Out: -89.499 $\pm$ 294.703 χ^2/NDF : 65.3/61

All: 88.761 $\pm$ 209.108 χ^2/NDF : 130.1/119

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2118.480 $\pm$ 0.357 χ^2 /NDF: 3349274.0/34

Left Out: 1526.391 $\pm$ 0.255 χ^2 /NDF: 753714.4/24

Right Out: 2191.908 $\pm$ 0.361 χ^2 /NDF: 3096435.3/36

Left In: 1508.581 $\pm$ 0.259 χ^2 /NDF: 931684.8/22

Left: 1517.632 $\pm$ 0.182 χ^2 /NDF: 1687794.7/47

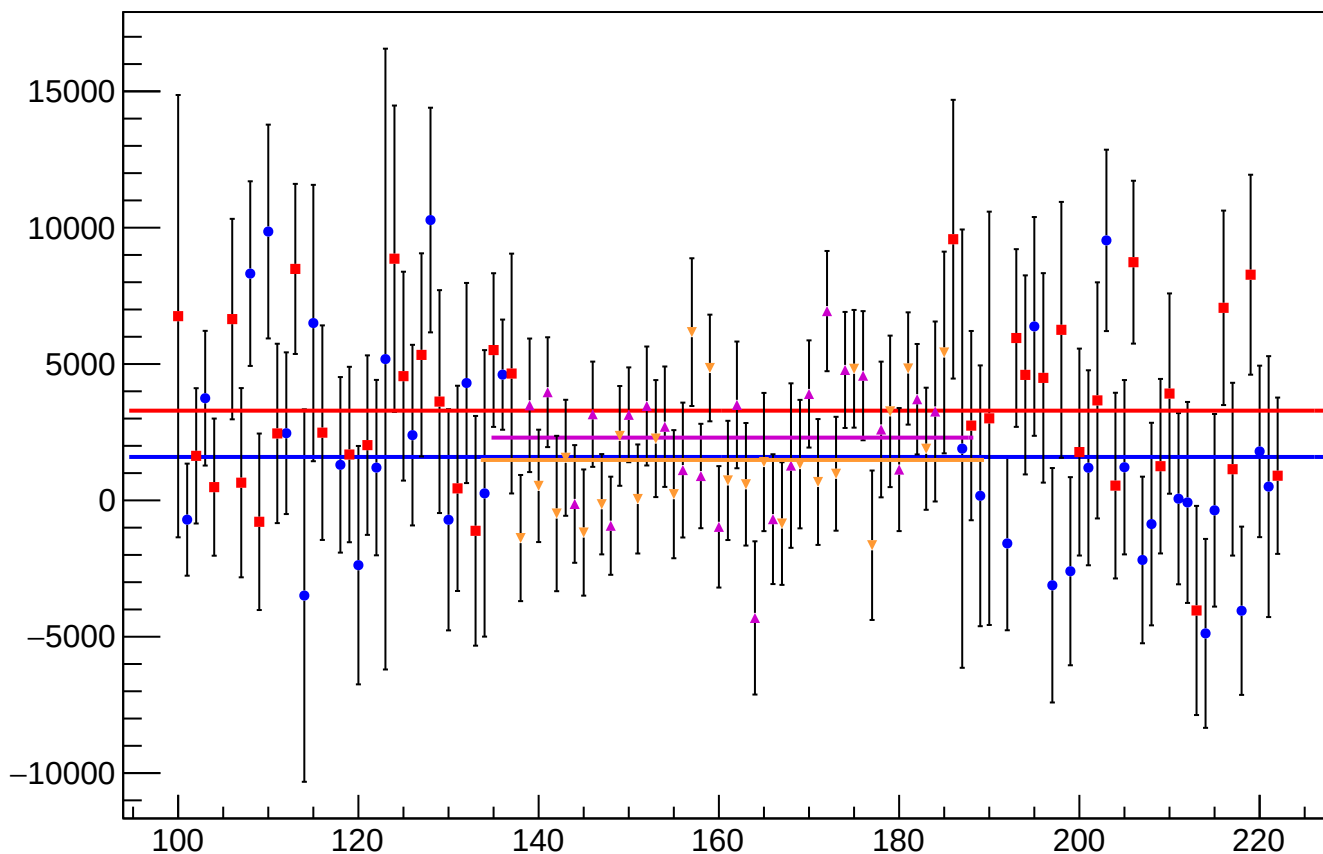
Right: 2154.776 $\pm$ 0.254 χ^2 /NDF: 6466630.9/71

In: 1719.395 $\pm$ 0.210 χ^2 /NDF: 6191691.8/57

Out: 1748.145 $\pm$ 0.208 χ^2 /NDF: 6116277.0/61

All: 1733.870 $\pm$ 0.148 χ^2 /NDF: 12317420.2/122

asym_usr_mean vs Slug, Sign Corrected



Right In: 1592.453+/-583.247 χ^2/NDF : 41.1/34

Left Out: 1482.365+/-449.983 χ^2/NDF : 20.9/24

Right Out: 3290.129+/-584.169 χ^2/NDF : 27.1/36

Left In: 2301.247+/-459.040 χ^2/NDF : 24.8/22

Left: 1883.648+/-321.340 χ^2/NDF : 47.4/47

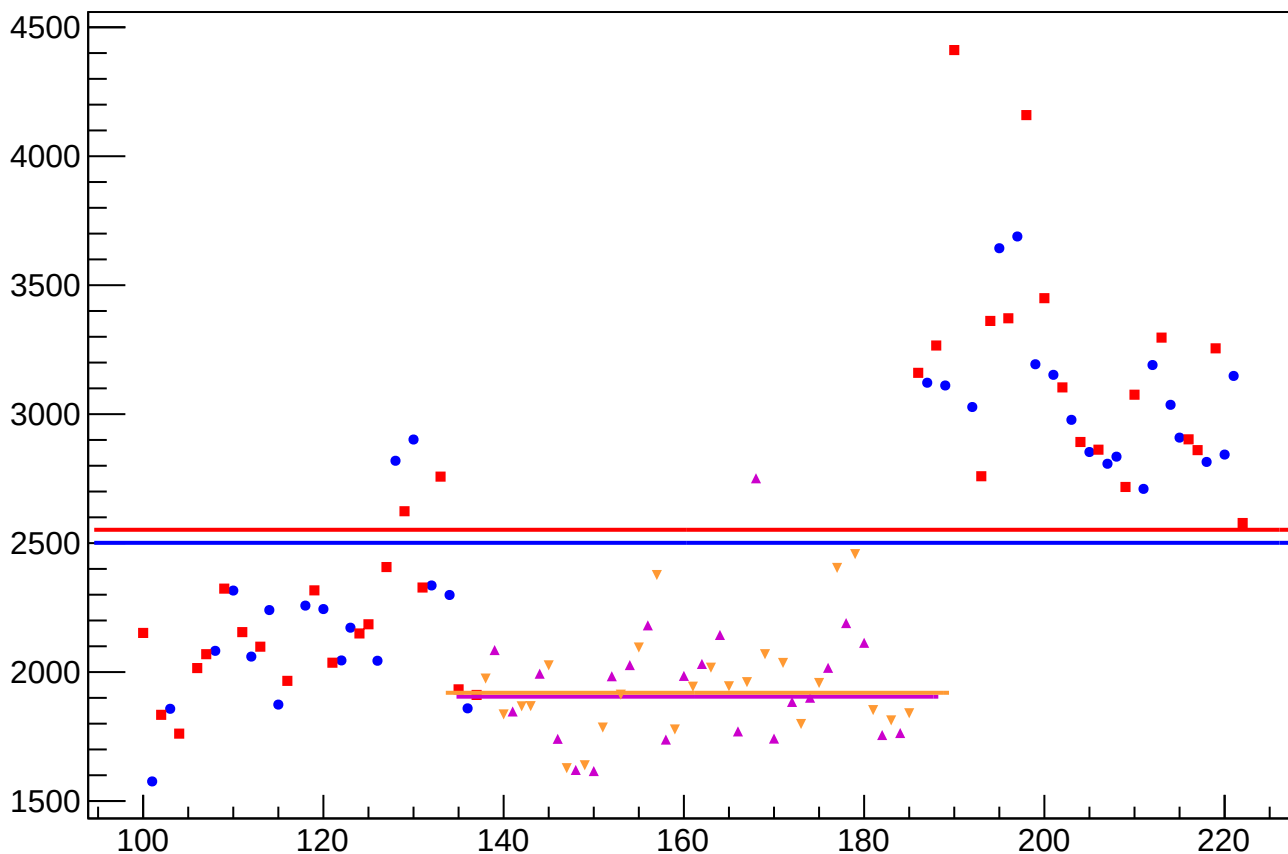
Right: 2439.950+/-412.744 χ^2/NDF : 72.5/71

In: 2030.133+/-360.719 χ^2/NDF : 66.8/57

Out: 2155.565+/-356.484 χ^2/NDF : 54.1/61

All: 2093.589+/-253.556 χ^2/NDF : 121.0/119

asym_usr_rms vs Slug, Sign Corrected



Right In: 2501.118 $\pm$ 0.412 χ^2 /NDF: 1889468.4/34

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

Right Out: 2551.697 $\pm$ 0.413 χ^2 /NDF: 1905239.0/36

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

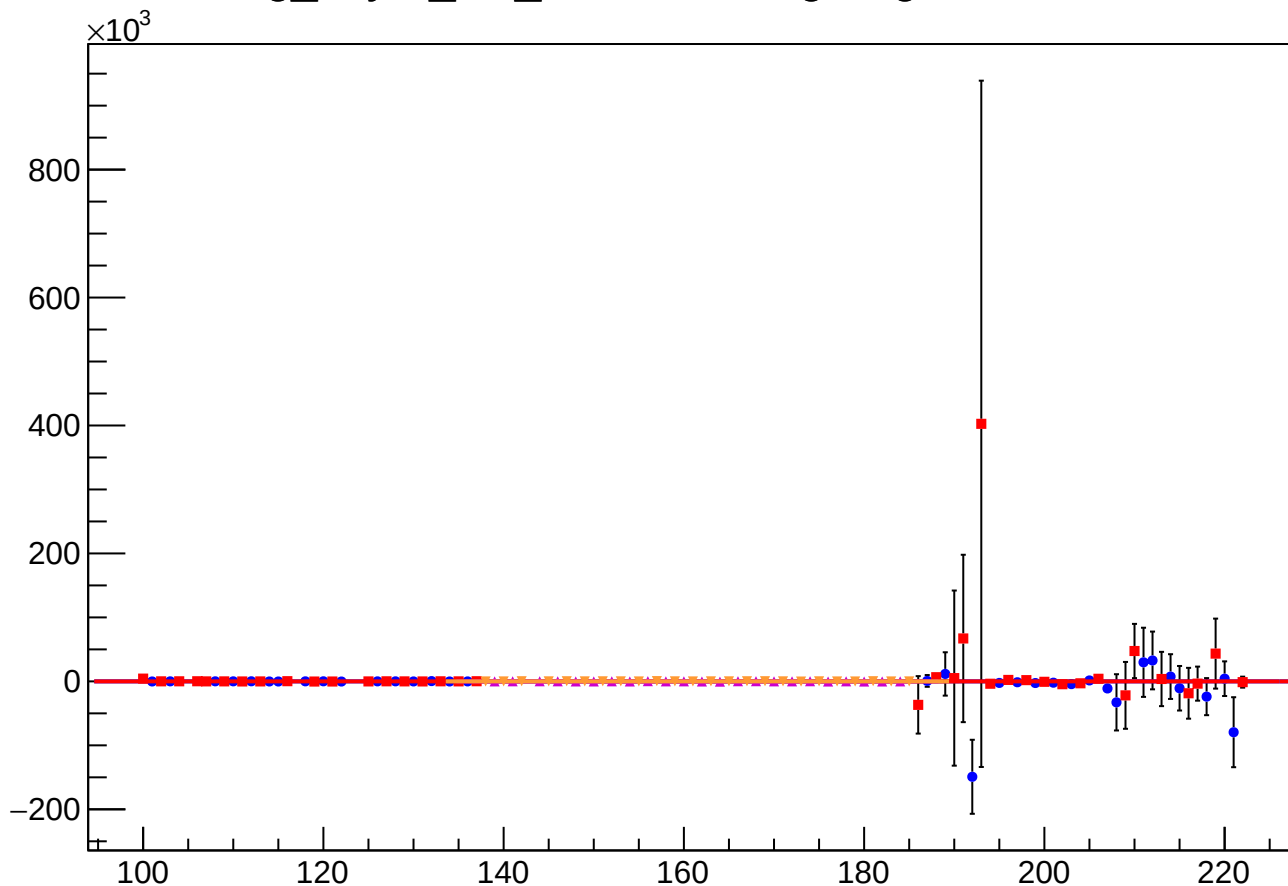
Right: 2526.367 $\pm$ 0.292 χ^2 /NDF: 3802215.9/71

In: 2132.786 $\pm$ 0.255 χ^2 /NDF:3628533.6/57

Out: 2155.071 $\pm$ 0.252 χ^2 /NDF:3740471.1/61

All: 2144.060 $\pm$ 0.179 χ^2 /NDF: 7372866.5/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.413 ± 36.762 $\chi^2/\text{NDF}: 35.8/33$

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

Right Out: 1.832 ± 36.747 $\chi^2/\text{NDF}: 21.8/36$

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

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

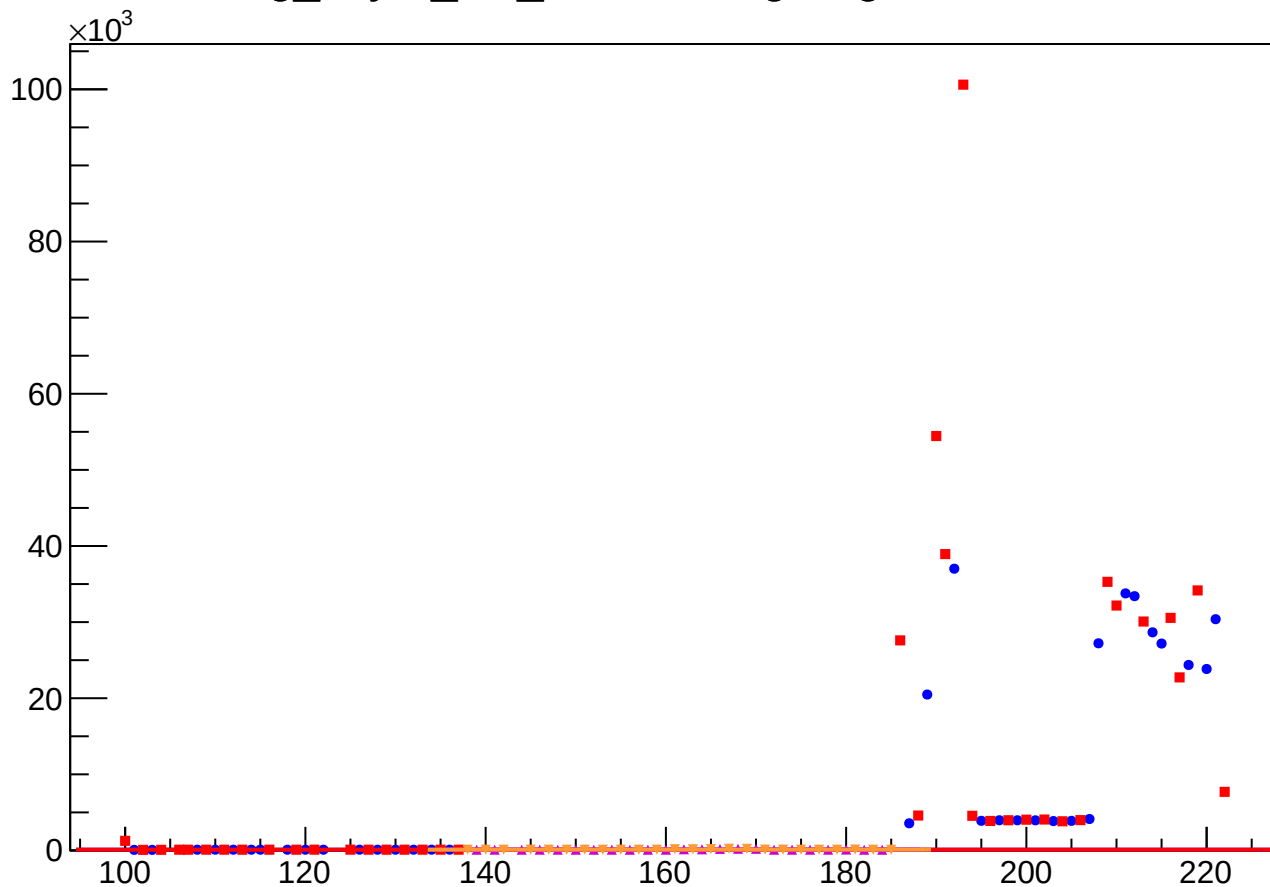
Right: -0.289 ± 25.989 $\chi^2/\text{NDF}: 57.6/70$

In: 15.558 ± 21.413 $\chi^2/\text{NDF}: 72.6/56$

Out: 8.735 ± 21.365 $\chi^2/\text{NDF}: 57.7/60$

All: 12.139 ± 15.124 $\chi^2/\text{NDF}: 130.4/117$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.251 $\pm$ 0.026 χ^2 /NDF: 21571220.0/33

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

Right Out: 98.517 $\pm$ 0.026 χ^2 /NDF: 20537209.3/36

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

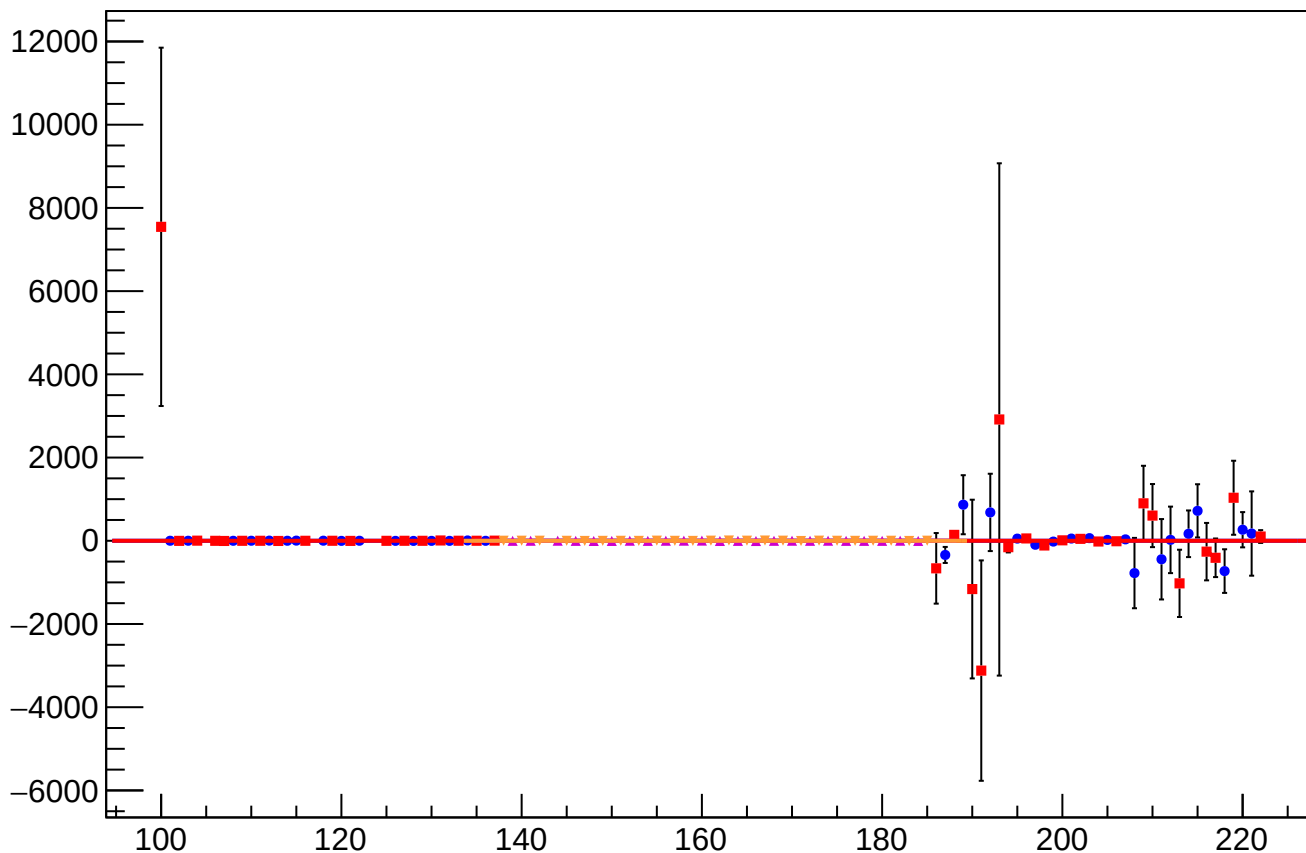
Right: 97.384 $\pm$ 0.018 χ^2 /NDF: 42112230.8/70

In: 103.797 $\pm$ 0.015 χ^2 /NDF: 23189808.3/56

Out: 104.834 $\pm$ 0.015 χ^2 /NDF: 22061463.8/60

All: 104.317 $\pm$ 0.011 χ^2 /NDF: 45253620.1/111

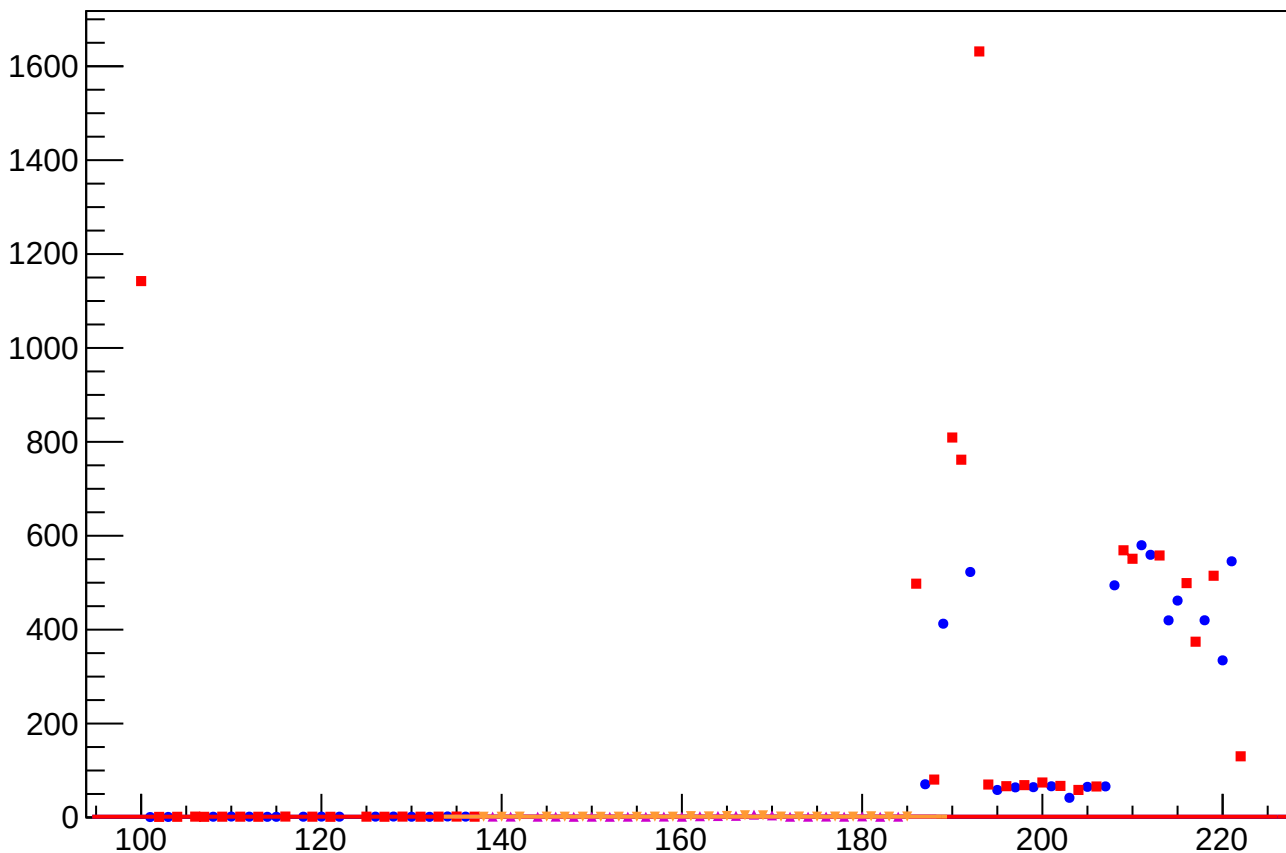
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 $\chi^2/\text{NDF}: 24.2/33$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.345 ± 0.644 $\chi^2/\text{NDF}: 35.6/36$
Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.306 ± 0.339 $\chi^2/\text{NDF}: 56.0/46$
Right: 0.042 ± 0.445 $\chi^2/\text{NDF}: 60.5/70$
In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 49.5/56$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 66.2/60$
All: -0.178 ± 0.270 $\chi^2/\text{NDF}: 116.9/117$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.000 χ^2/NDF : 18698873.2/33

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

Right Out: 1.589+/-0.000 χ^2/NDF : 18133265.2/36

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

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

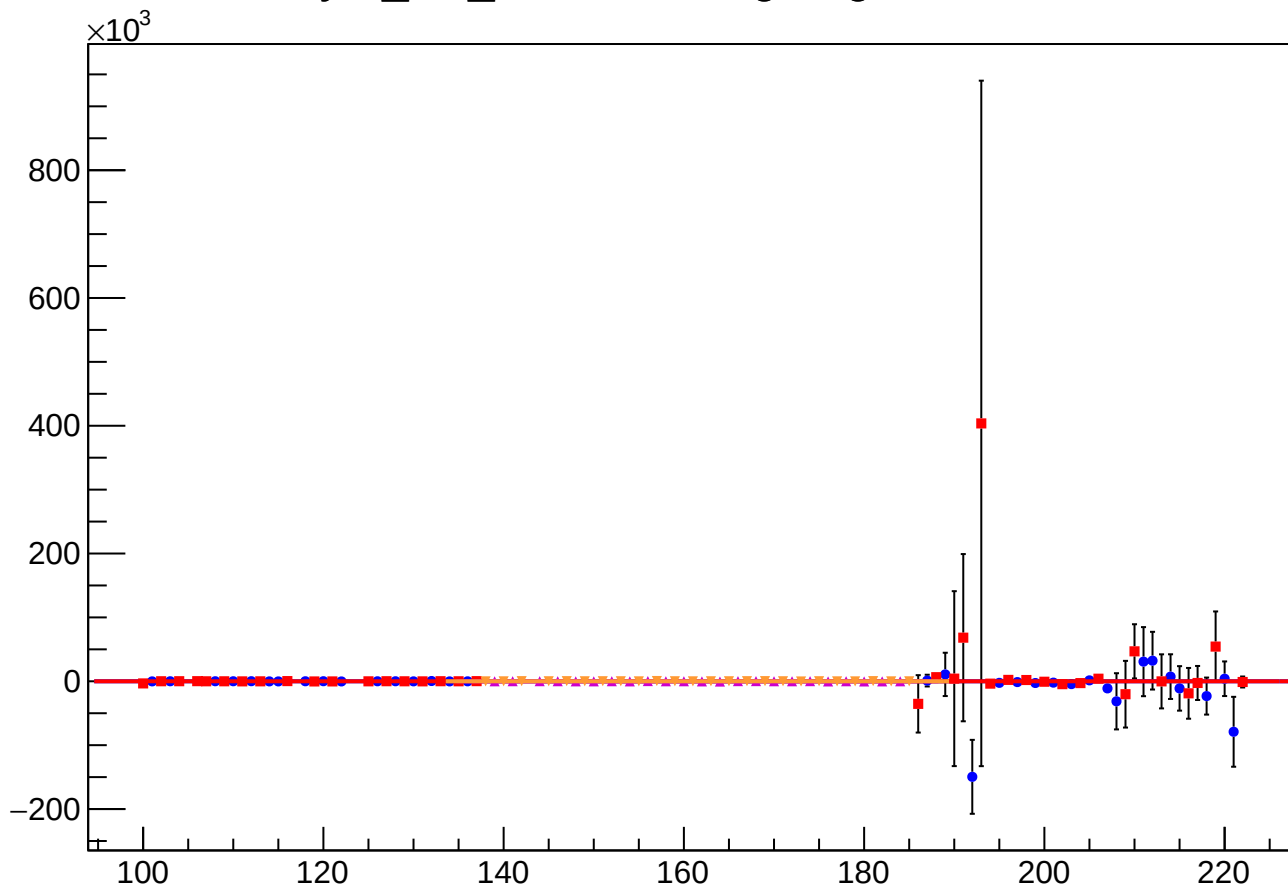
Right: 1.518+/-0.000 χ^2/NDF : 36878754.0/70

In: 1.669+/-0.000 χ^2/NDF :21017288.8/56

Out: 1.707+/-0.000 χ^2/NDF :19836787.0/60

All: 1.688+/-0.000 χ^2/NDF : 40863947.4/117

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.125 ± 36.771 $\chi^2/\text{NDF}: 36.0/33$

Left Out: 12.948 ± 26.268 $\chi^2/\text{NDF}: 35.7/23$

Right Out: 1.603 ± 36.757 $\chi^2/\text{NDF}: 21.5/36$

Left In: 25.312 ± 26.351 $\chi^2/\text{NDF}: 35.7/22$

Left: 19.110 ± 18.604 $\chi^2/\text{NDF}: 71.6/46$

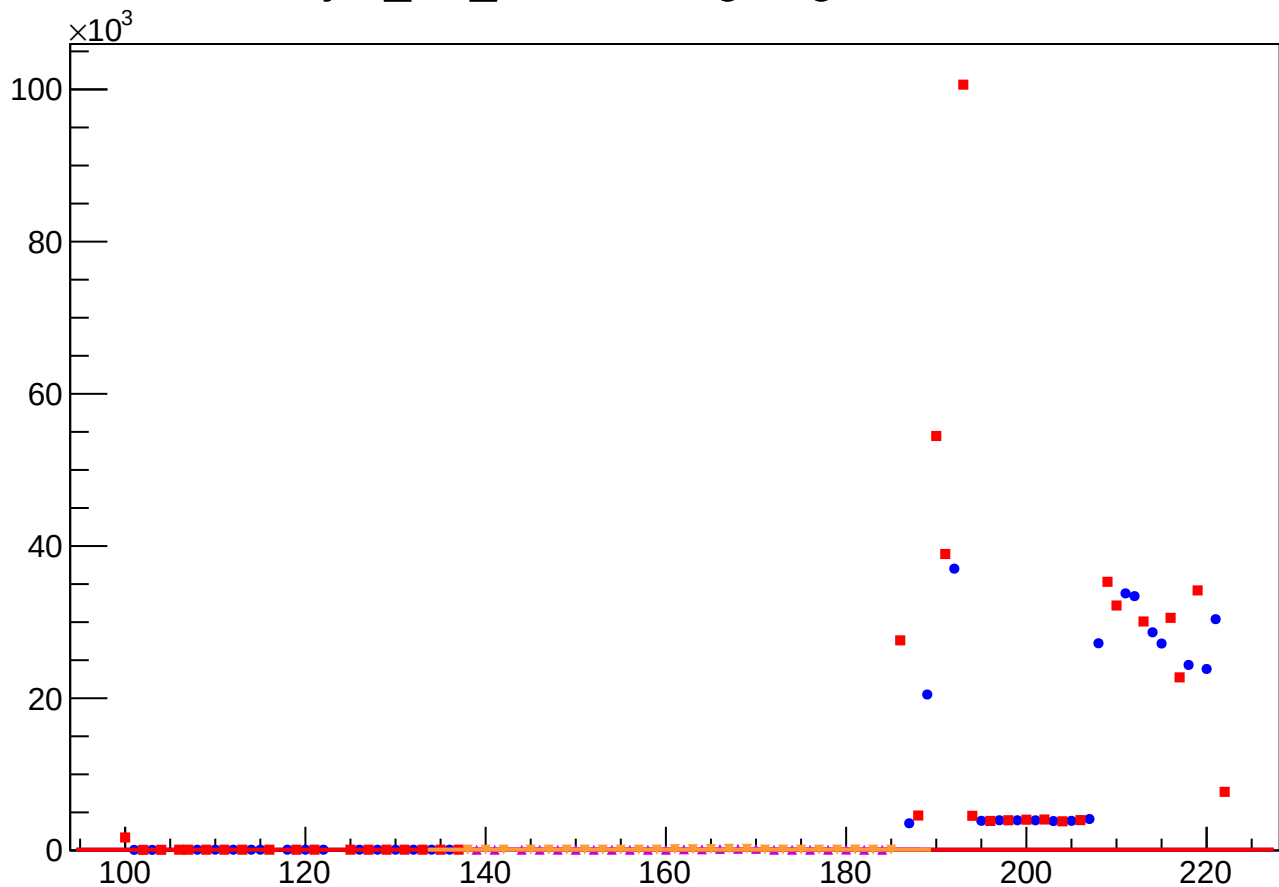
Right: -0.261 ± 25.996 $\chi^2/\text{NDF}: 57.5/70$

In: 16.002 ± 21.419 $\chi^2/\text{NDF}: 72.1/56$

Out: 9.113 ± 21.371 $\chi^2/\text{NDF}: 57.3/60$

All: 12.550 ± 15.129 $\chi^2/\text{NDF}: 129.4/117$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.276 $\pm$ 0.026 χ^2 /NDF: 21571214.8/33

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

Right Out: 98.526 $\pm$ 0.026 χ^2 /NDF: 20542510.5/36

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

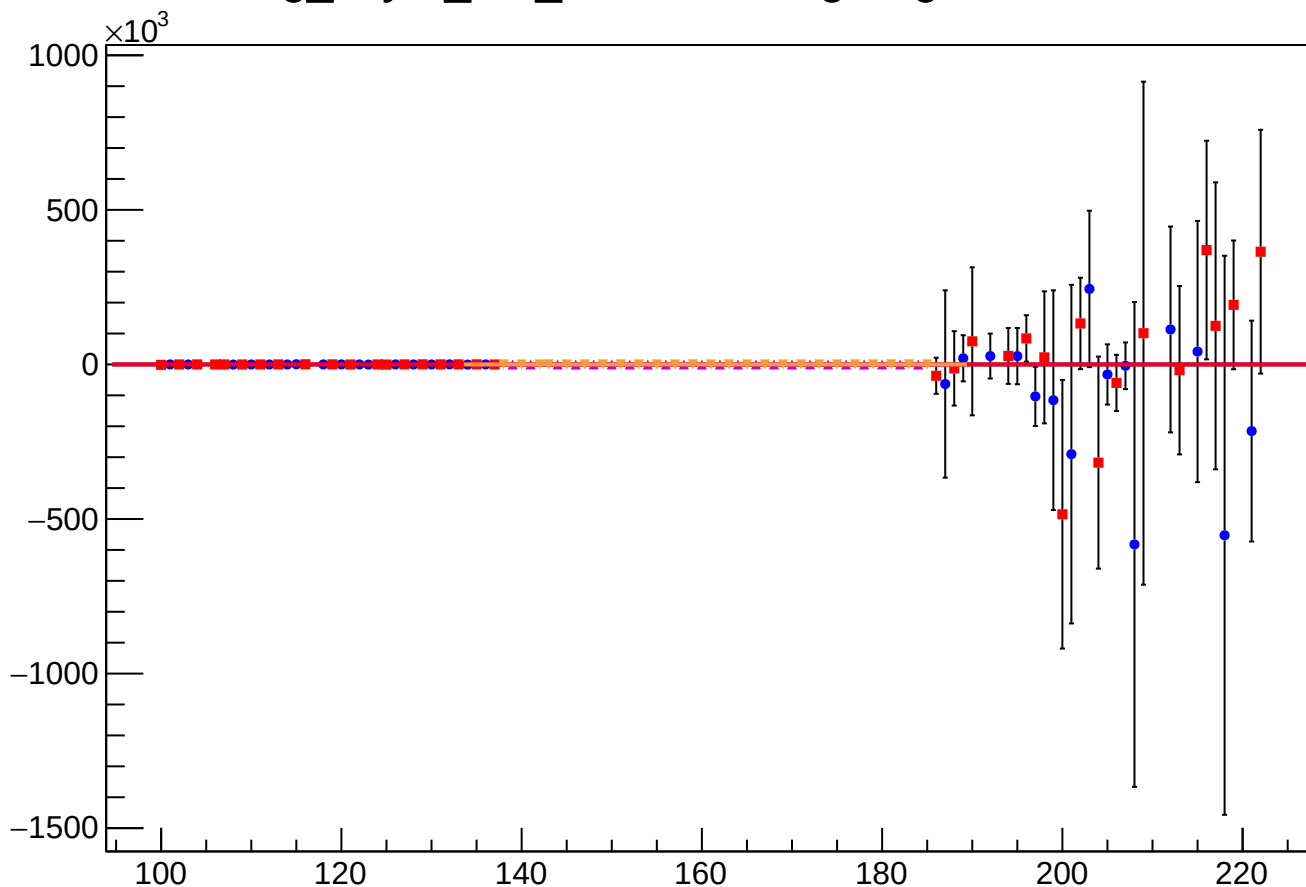
Right: 97.402 $\pm$ 0.018 χ^2 /NDF: 42117473.3/70

In: 103.826 $\pm$ 0.015 χ^2 /NDF: 23191169.7/56

Out: 104.857 $\pm$ 0.015 χ^2 /NDF: 22068504.0/60

All: 104.343 $\pm$ 0.011 χ^2 /NDF: 45261997.4/11

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.807 ± 46.841 $\chi^2/\text{NDF}: 18.8/31$

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

Right Out: 53.412 ± 47.775 $\chi^2/\text{NDF}: 23.5/34$

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

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

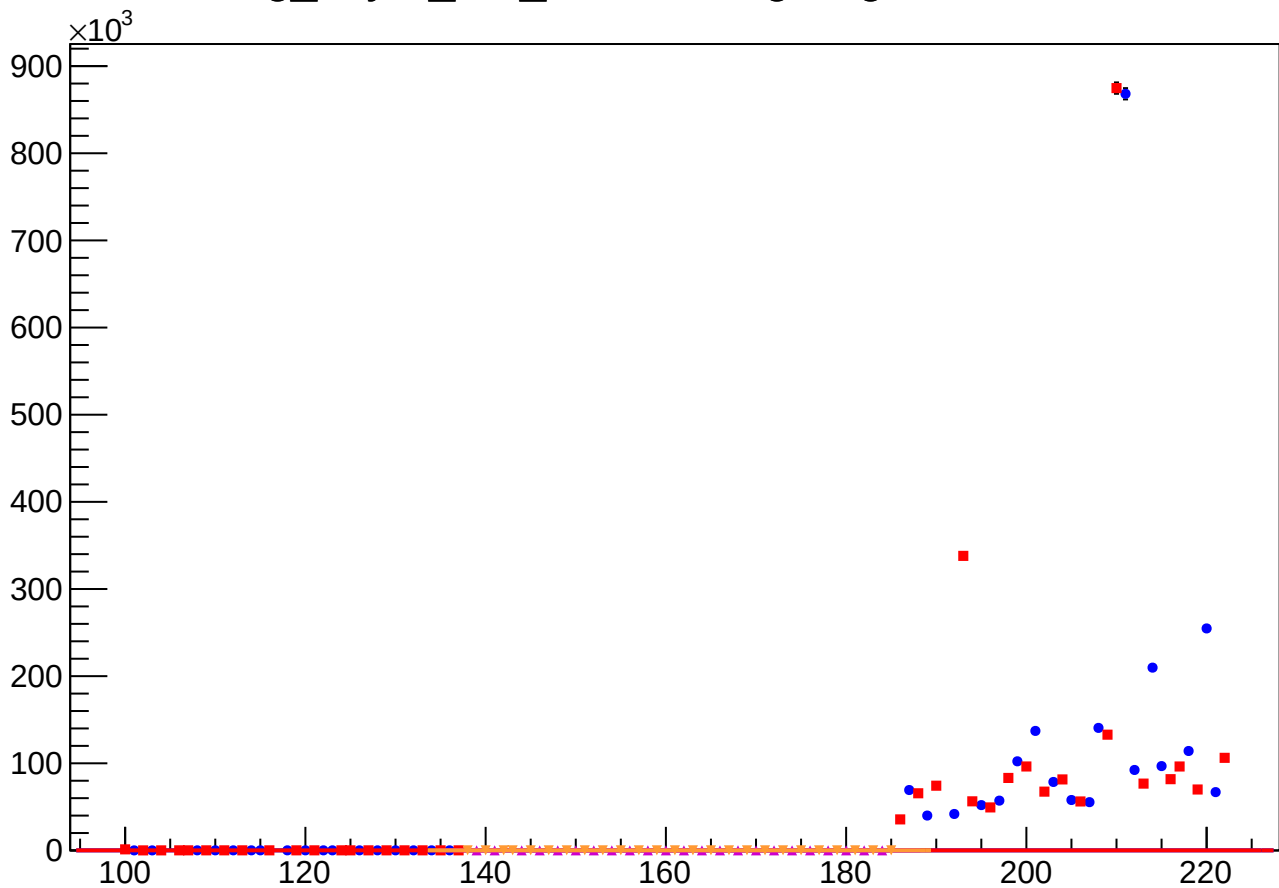
Right: 12.511 ± 33.447 $\chi^2/\text{NDF}: 43.7/66$

In: -52.584 ± 26.947 $\chi^2/\text{NDF}: 38.5/54$

Out: 7.741 ± 26.623 $\chi^2/\text{NDF}: 36.8/59$

All: -22.057 ± 18.939 $\chi^2/\text{NDF}: 77.9/114$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.885 $\pm$ 0.033 χ^2 /NDF: 7220048.8/34

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

Right Out: 124.851 $\pm$ 0.034 χ^2 /NDF: 7269264.1/36

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

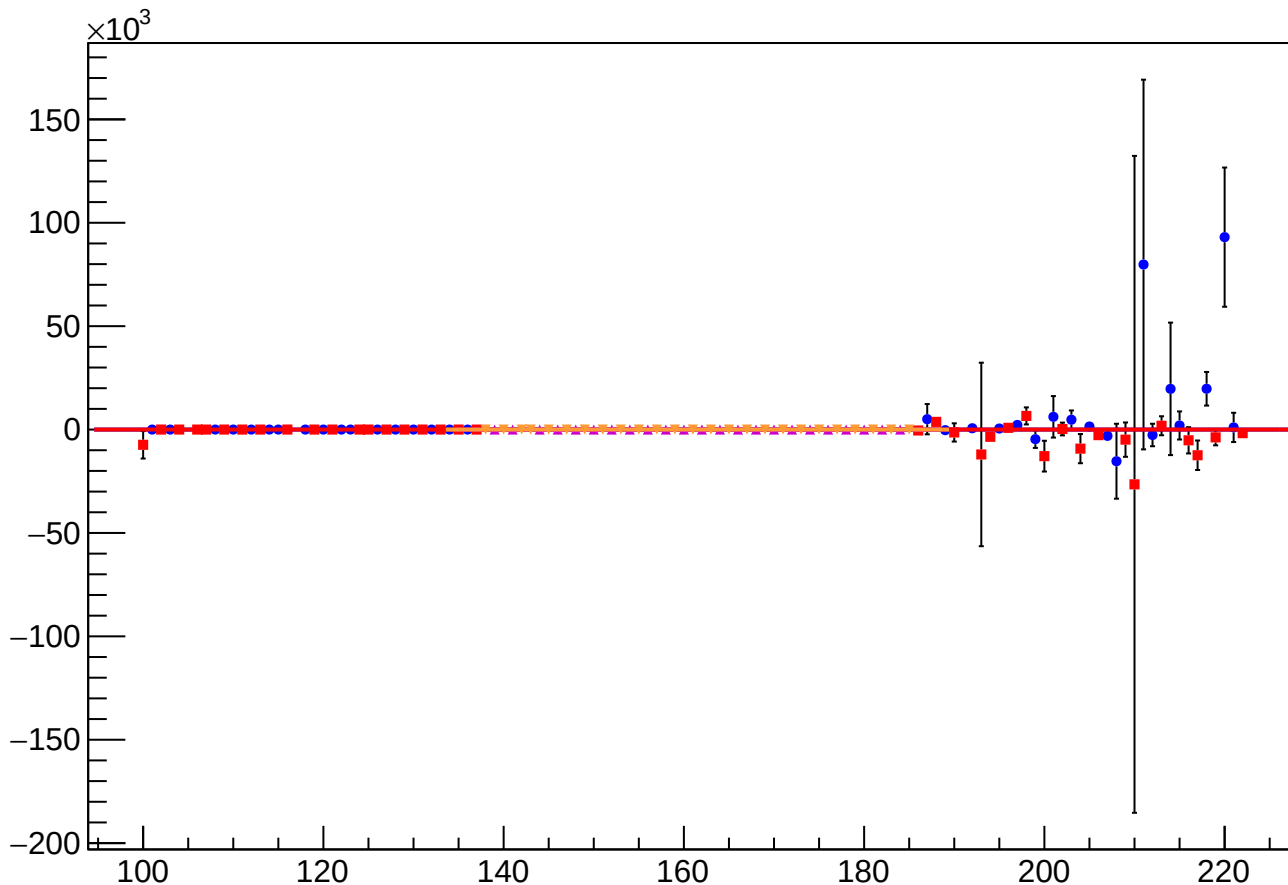
Right: 121.300 $\pm$ 0.024 χ^2 /NDF: 14510994.8/71

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7462490.6/57

Out: 133.818 $\pm$ 0.019 χ^2 /NDF: 7371887.3/61

All: 132.531 $\pm$ 0.013 χ^2 /NDF: 14843841.4/11

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 39.1/34

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

Right Out: -0.640 ± 0.852 χ^2/NDF : 38.1/36

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

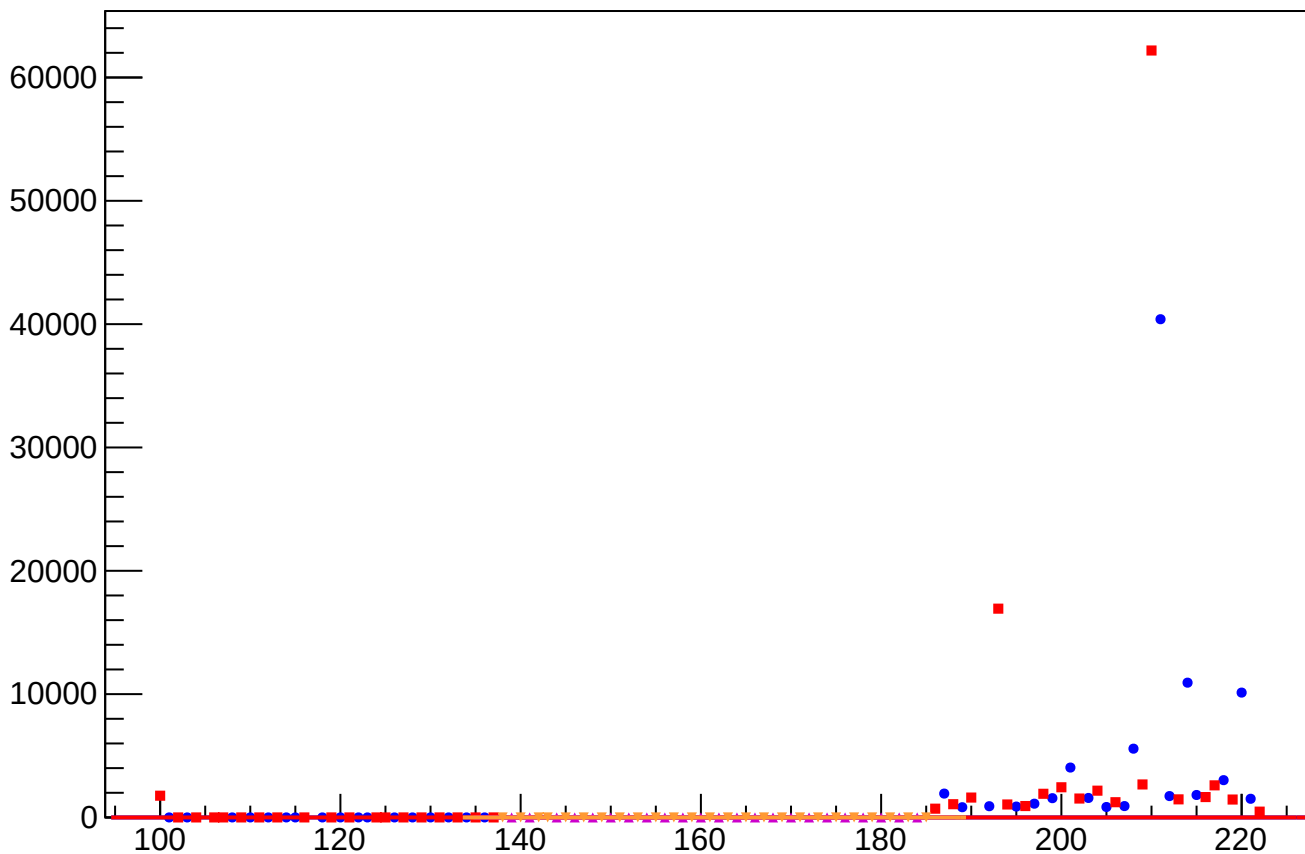
Right: -0.681 ± 0.587 χ^2/NDF : 77.1/71

In: -0.052 ± 0.471 χ^2/NDF : 60.8/57

Out: 0.139 ± 0.475 χ^2/NDF : 68.2/61

All: 0.043 ± 0.334 χ^2/NDF : 129.1/119

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 7359327.9/34

Left Out: 2.262+/-0.000 χ^2/NDF : 374973.2/24

Right Out: 2.065+/-0.001 χ^2/NDF : 7572035.9/36

Left In: 2.193+/-0.000 χ^2/NDF : 510890.7/22

Left: 2.228+/-0.000 χ^2/NDF : 900243.0/47

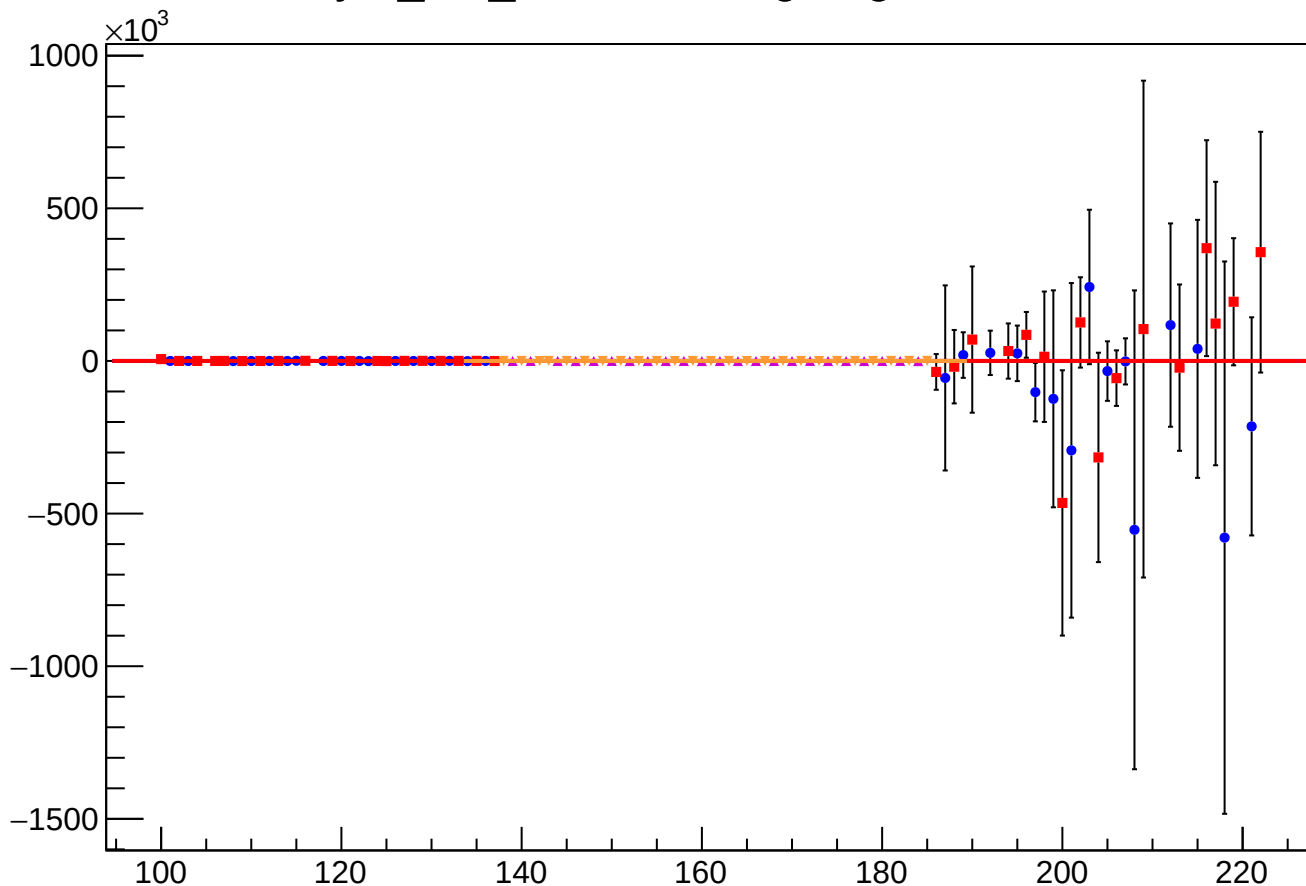
Right: 1.961+/-0.000 χ^2/NDF : 14988314.5/71

In: 2.083+/-0.000 χ^2/NDF : 8084429.7/57

Out: 2.201+/-0.000 χ^2/NDF : 8020251.2/61

All: 2.141+/-0.000 χ^2/NDF : 16167093.9/119

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.068 ± 46.854 χ^2/NDF : 18.8/31

Left Out: -13.383 ± 32.072 χ^2/NDF : 11.8/24

Right Out: 54.315 ± 47.789 χ^2/NDF : 24.0/34

Left In: -65.231 ± 32.953 χ^2/NDF : 19.4/22

Left: -38.605 ± 22.983 χ^2/NDF : 32.4/47

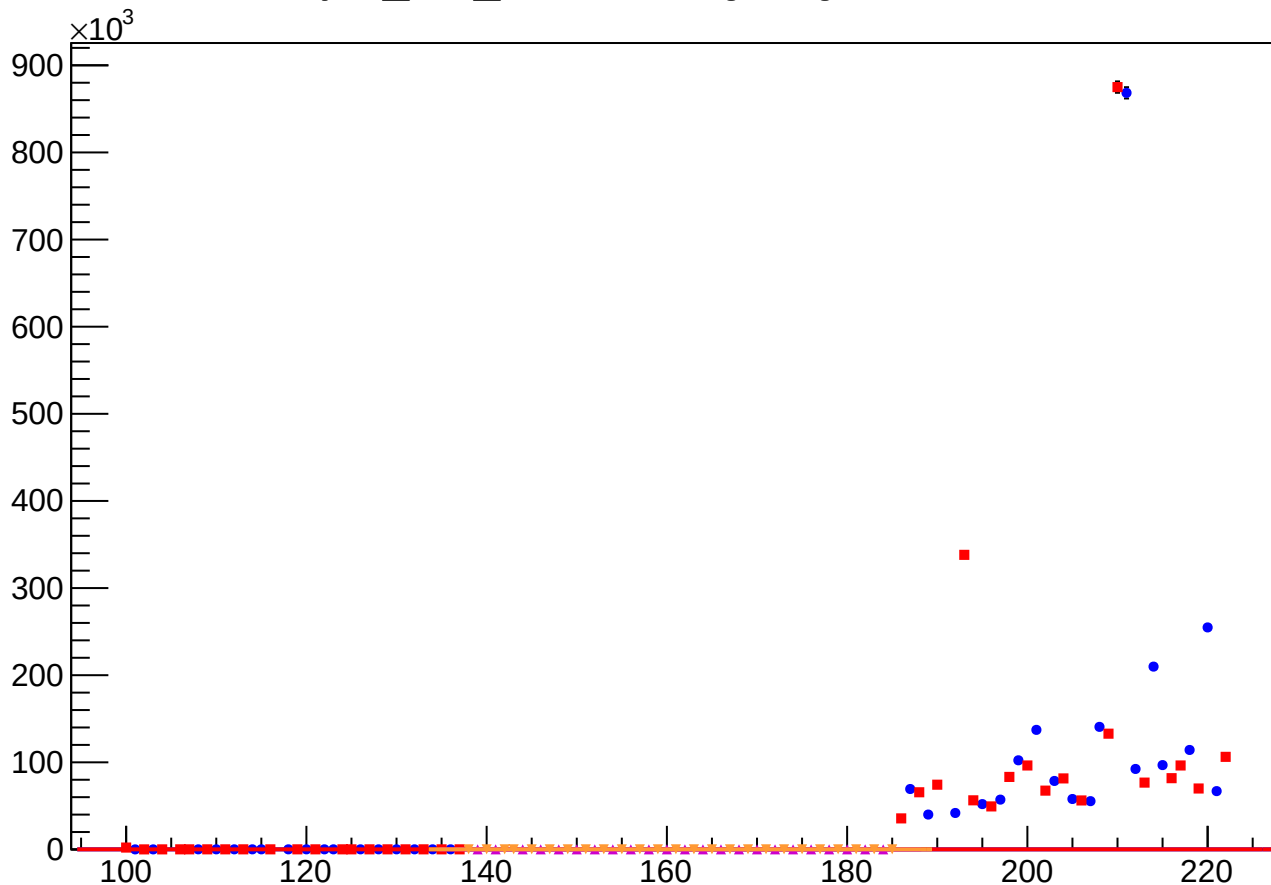
Right: 13.839 ± 33.456 χ^2/NDF : 44.2/66

In: -51.939 ± 26.954 χ^2/NDF : 38.6/54

Out: 7.639 ± 26.631 χ^2/NDF : 37.1/59

All: -21.790 ± 18.944 χ^2/NDF : 78.2/114

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.917 $\pm$ 0.033 χ^2 /NDF: 7220215.7/34

Left Out: 137.895 $\pm$ 0.023 χ^2 /NDF: 440.9/24

Right Out: 124.840 $\pm$ 0.034 χ^2 /NDF: 7279922.3/36

Left In: 137.843 $\pm$ 0.023 χ^2 /NDF: 457.2/22

Left: 137.870 $\pm$ 0.016 χ^2 /NDF: 900.6/47

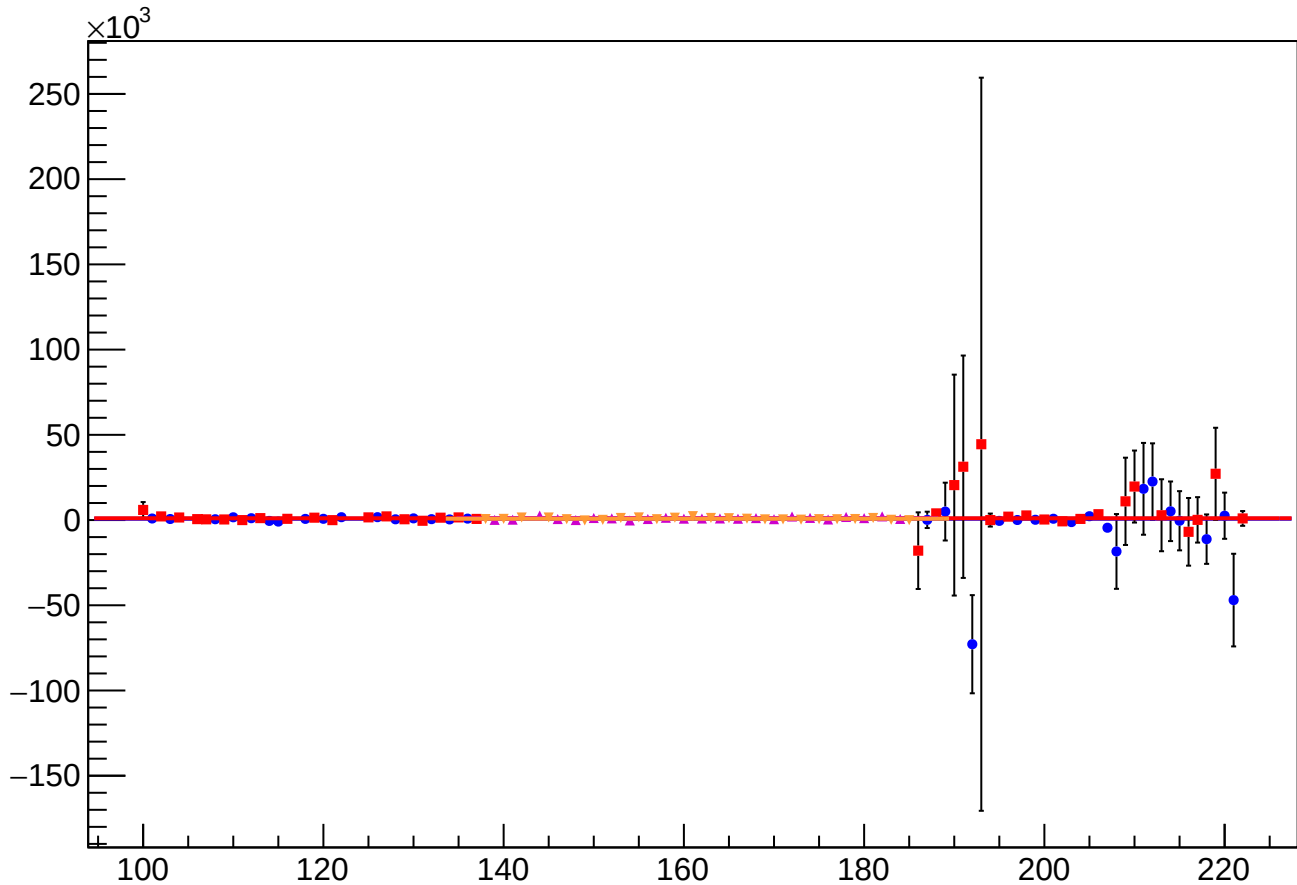
Right: 121.310 $\pm$ 0.024 χ^2 /NDF: 14521541.8/71

In: 131.249 $\pm$ 0.019 χ^2 /NDF: 7462693.0/57

Out: 133.841 $\pm$ 0.019 χ^2 /NDF: 7383264.9/61

All: 132.561 $\pm$ 0.013 χ^2 /NDF: 14855321.0/13

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 764.361 $\pm$ 209.770 χ^2/NDF : 24.8/33

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

Right Out: 1039.946 $\pm$ 206.986 χ^2/NDF : 20.7/36

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

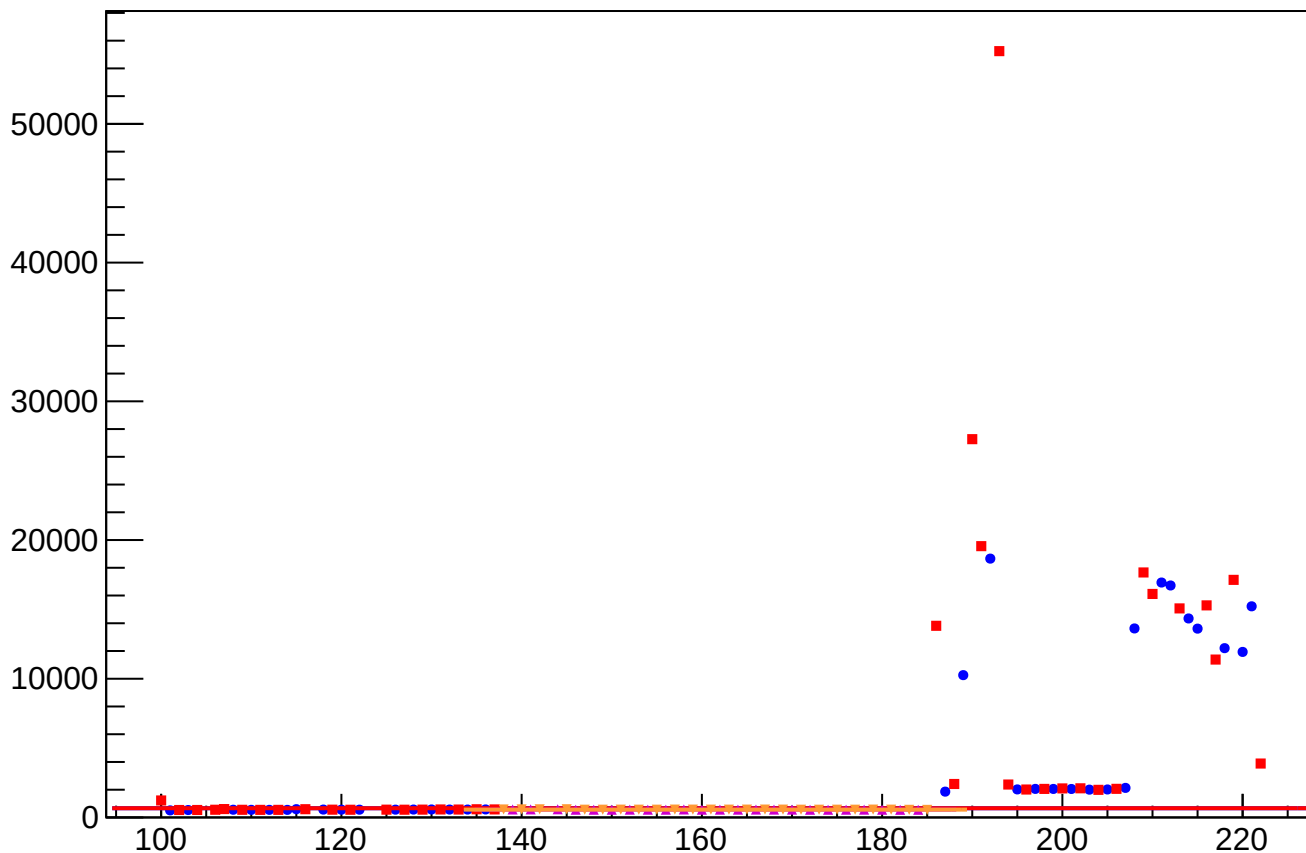
Right: 903.994 $\pm$ 147.336 χ^2/NDF : 46.4/70

In: 912.931 $\pm$ 113.482 χ^2/NDF : 53.0/56

Out: 859.893 $\pm$ 112.517 χ^2/NDF : 41.0/60

All: 886.185 $\pm$ 79.901 χ^2/NDF : 94.1/117

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 664.072+/-0.148 χ^2/NDF : 15263203.4/33

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

Right Out: 665.562+/-0.146 χ^2/NDF : 14315613.6/36

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

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

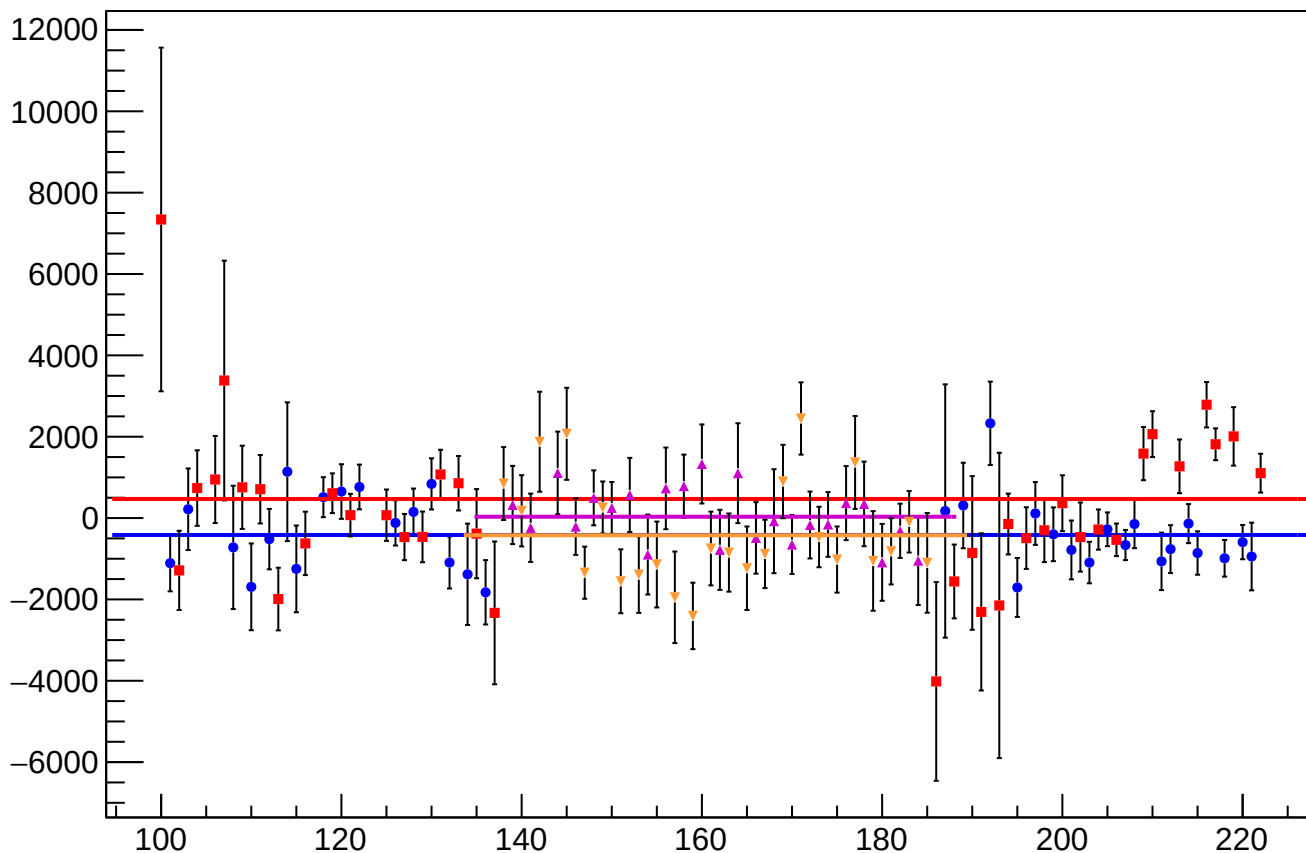
Right: 664.826+/-0.104 χ^2/NDF : 29578868.1/70

In: 593.558+/-0.080 χ^2/NDF : 15591904.7/56

Out: 594.112+/-0.080 χ^2/NDF : 14663475.1/60

All: 593.838+/-0.056 χ^2/NDF : 30255403.8/116

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -415.469 ± 108.571 $\chi^2/\text{NDF}: 43.7/33$

Left Out: -422.681 ± 180.610 $\chi^2/\text{NDF}: 43.2/23$

Right Out: 469.127 ± 114.734 $\chi^2/\text{NDF}: 102.3/36$

Left In: 32.411 ± 179.430 $\chi^2/\text{NDF}: 12.2/22$

Left: -193.644 ± 127.291 $\chi^2/\text{NDF}: 58.6/46$

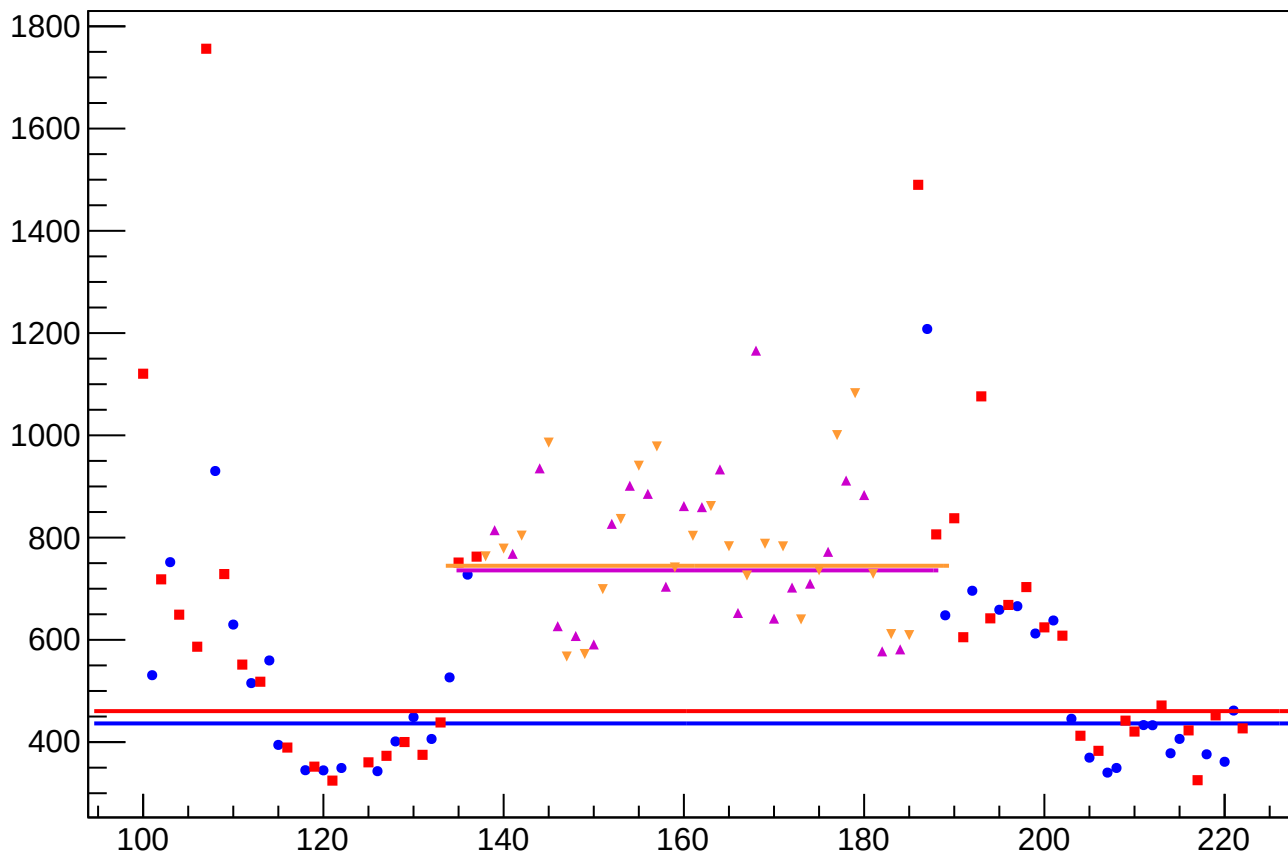
Right: 2.433 ± 78.860 $\chi^2/\text{NDF}: 177.4/70$

In: -295.435 ± 92.890 $\chi^2/\text{NDF}: 60.5/56$

Out: 212.712 ± 96.845 $\chi^2/\text{NDF}: 162.9/60$

All: -51.950 ± 67.038 $\chi^2/\text{NDF}: 237.7/117$

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 436.516+/-0.077 χ^2/NDF : 2417378.9/33

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

Right Out: 460.583+/-0.081 χ^2/NDF : 3254963.5/36

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

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

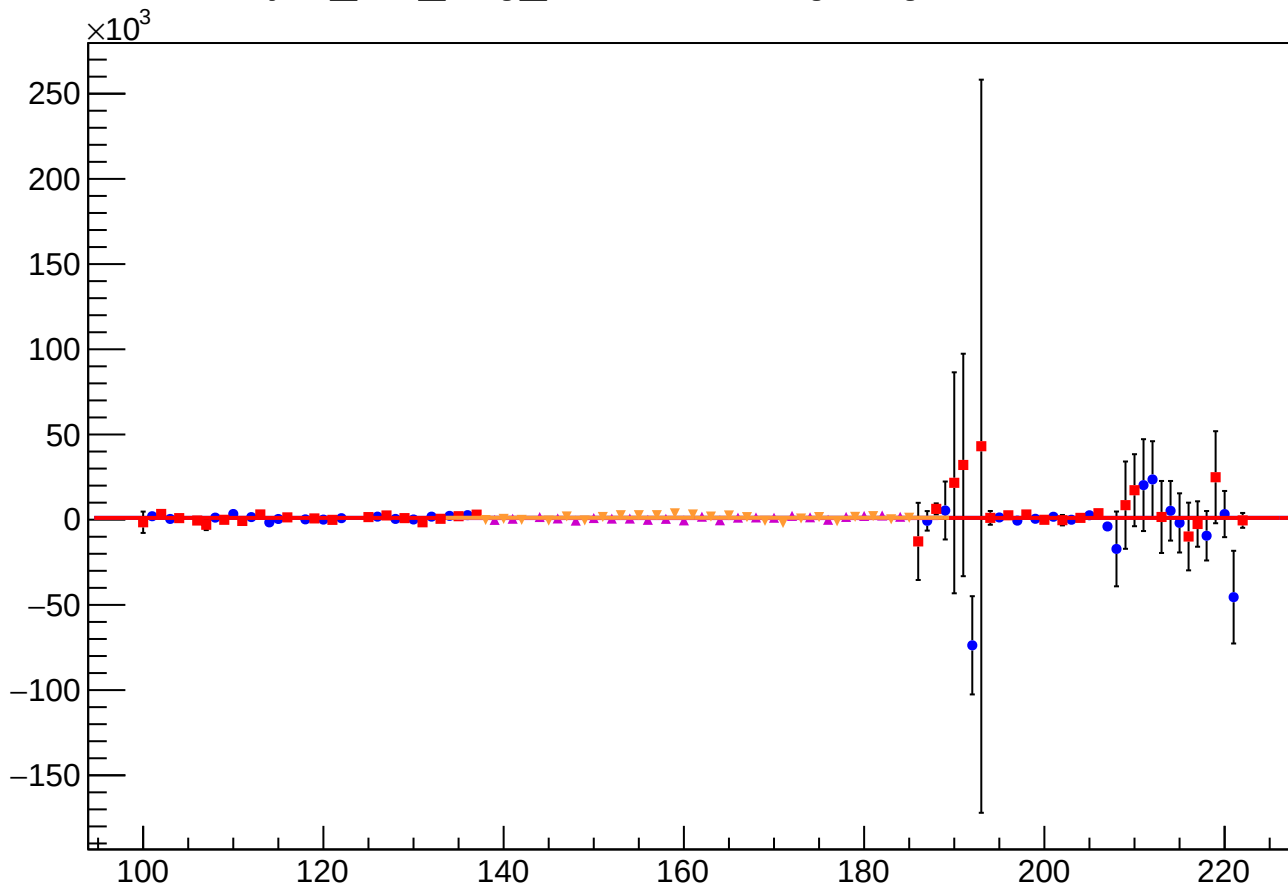
Right: 447.886+/-0.056 χ^2/NDF : 5718772.2/70

In: 516.738+/-0.066 χ^2/NDF :7597152.2/56

Out: 542.333+/-0.068 χ^2/NDF :7795252.3/60

All: 529.002+/-0.047 χ^2/NDF : 15465162.8/11

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1086.861 $\pm$ 280.391 χ^2 /NDF: 30.4/33

Left Out: 1137.936 $\pm$ 228.834 χ^2 /NDF:38.9/23

Right Out: 1055.797 $\pm$ 279.667 χ^2 /NDF: 31.7/36

Left In: 941.702 $\pm$ 228.324 χ^2 /NDF:14.8/22

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

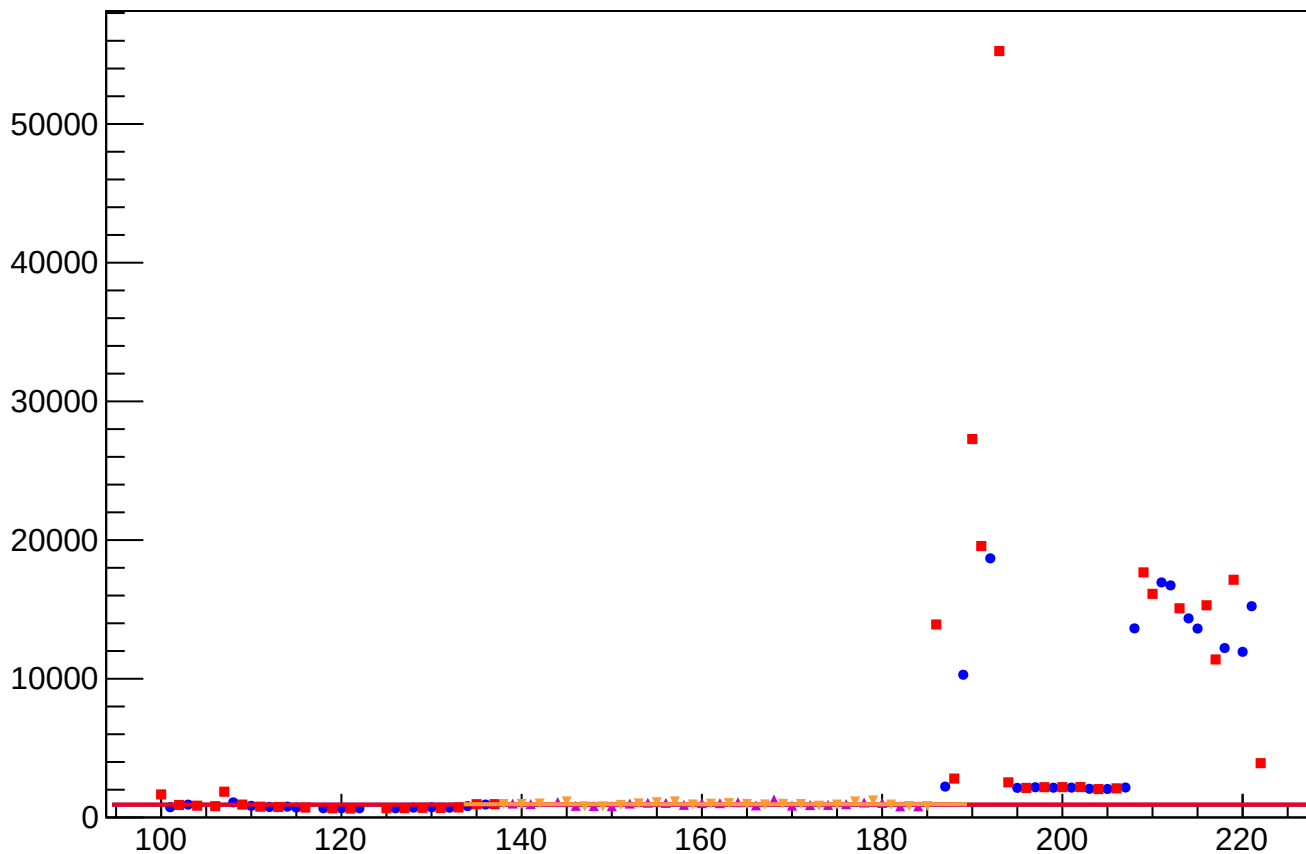
Right: 1071.289 $\pm$ 198.010 χ^2 /NDF: 62.1/70

In: 999.578 $\pm$ 177.049 χ^2 /NDF:45.3/56

Out: 1104.997 $\pm$ 177.103 χ^2 /NDF:70.7/60

All: 1052.271 $\pm$ 125.212 χ^2 /NDF: 116.1/117

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 920.817+/-0.198 χ^2/NDF : 13722555.9/33

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

Right Out: 926.535+/-0.198 χ^2/NDF : 13092565.9/36

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

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

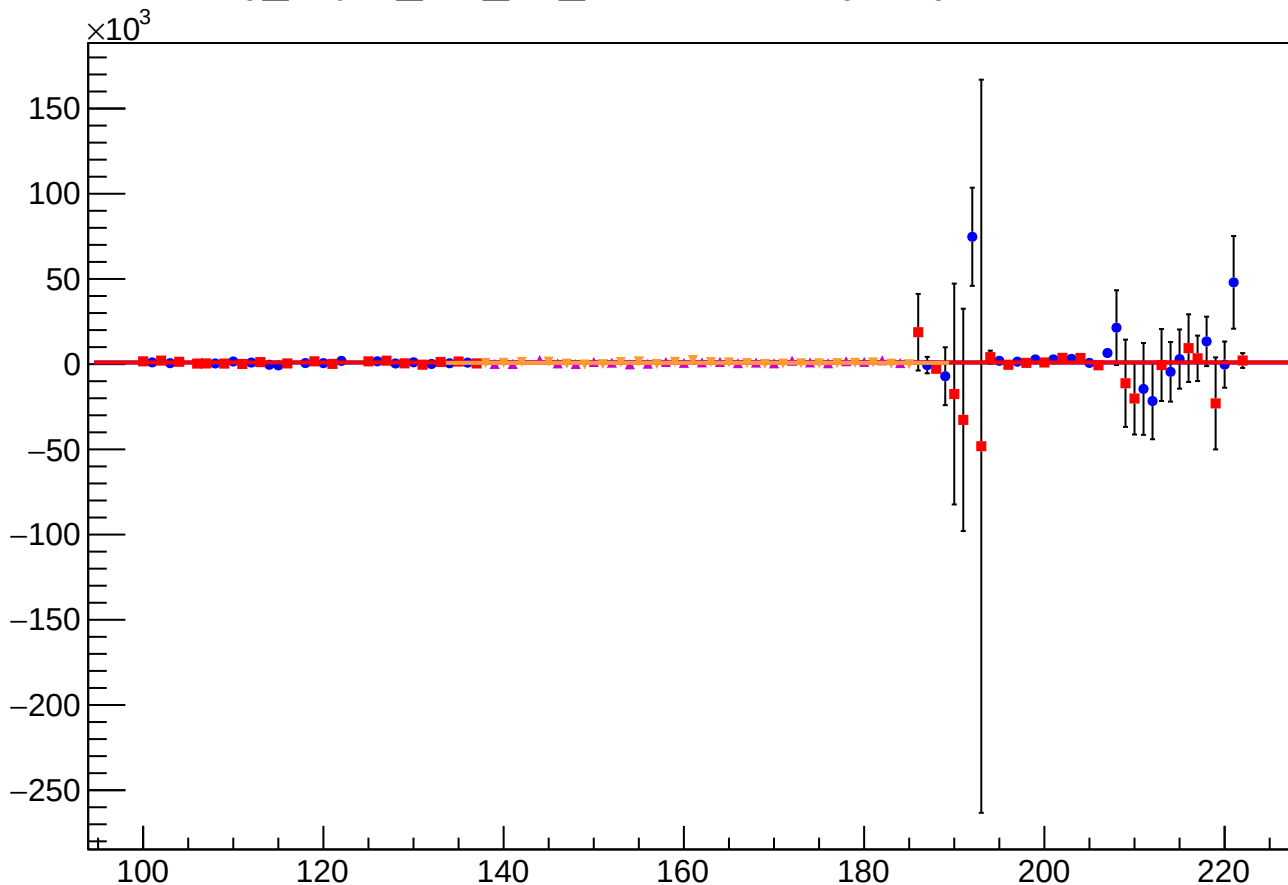
Right: 923.683+/-0.140 χ^2/NDF : 26815538.8/70

In: 936.303+/-0.125 χ^2/NDF : 14234070.1/56

Out: 943.186+/-0.125 χ^2/NDF : 13564549.2/60

All: 939.744+/-0.089 χ^2/NDF : 27800129.9/13

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 962.182 $\pm$ 209.639 χ^2 /NDF: 27.5/33

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

Right Out: 1017.684 $\pm$ 202.392 χ^2 /NDF: 21.1/36

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

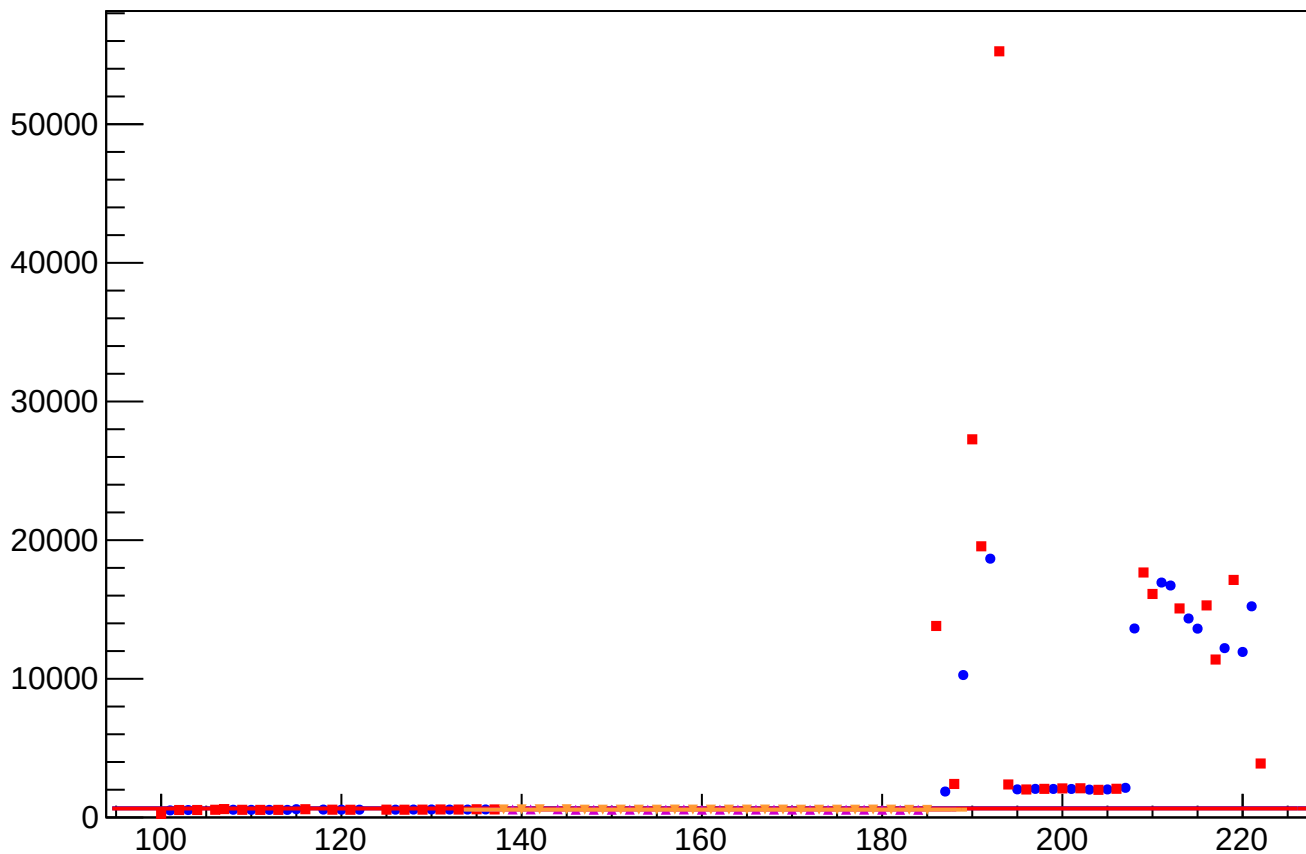
Right: 990.909 $\pm$ 145.607 χ^2 /NDF: 48.7/70

In: 959.589 $\pm$ 113.398 χ^2 /NDF:54.4/56

Out: 836.845 $\pm$ 111.697 χ^2 /NDF:43.3/60

All: 897.290 $\pm$ 79.576 χ^2 /NDF: 98.3/117

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 663.429+/-0.148 χ^2/NDF : 15278025.6/33

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

Right Out: 645.554+/-0.143 χ^2/NDF : 14648541.4/36

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

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

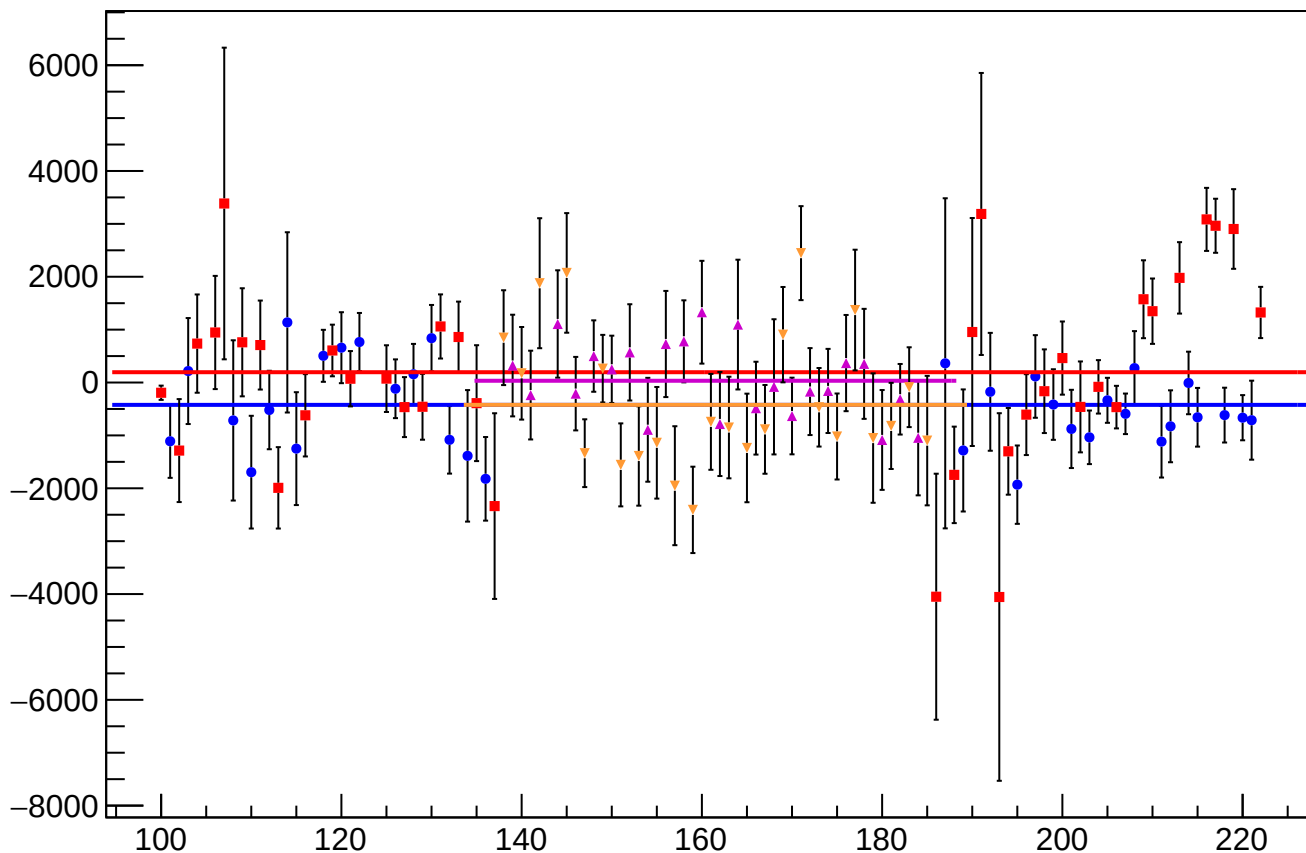
Right: 654.177+/-0.103 χ^2/NDF : 29934092.2/70

In: 593.045+/-0.080 χ^2/NDF : 15605911.1/56

Out: 588.613+/-0.079 χ^2/NDF : 14885723.9/60

All: 590.796+/-0.056 χ^2/NDF : 30493185.7/116

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -422.571 ± 112.137 χ^2/NDF : 36.4/33

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

Right Out: 194.958 ± 89.284 χ^2/NDF : 135.4/36

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

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

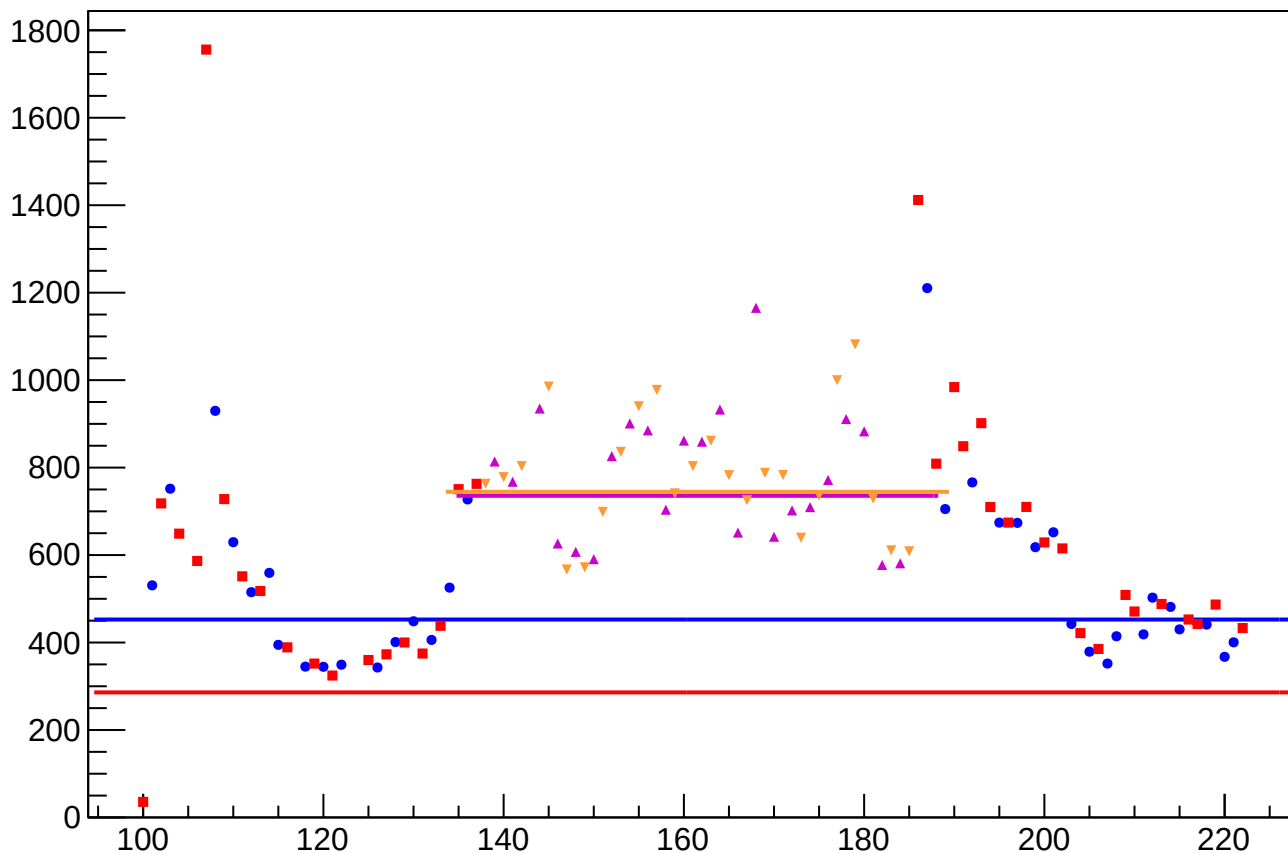
Right: -44.632 ± 69.848 χ^2/NDF : 190.3/70

In: -294.445 ± 95.082 χ^2/NDF : 53.1/56

Out: 73.649 ± 80.031 χ^2/NDF : 188.1/60

All: -78.992 ± 61.229 χ^2/NDF : 249.9/117

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 452.586+/-0.079 χ^2/NDF : 2355455.8/33

Left Out: 744.597+/-0.128 χ^2/NDF : 1009604.0/23

Right Out: 286.001+/-0.063 χ^2/NDF : 15242461.3/36

Left In: 735.543+/-0.127 χ^2/NDF : 1105222.3/22

Left: 740.040+/-0.090 χ^2/NDF : 2117358.1/46

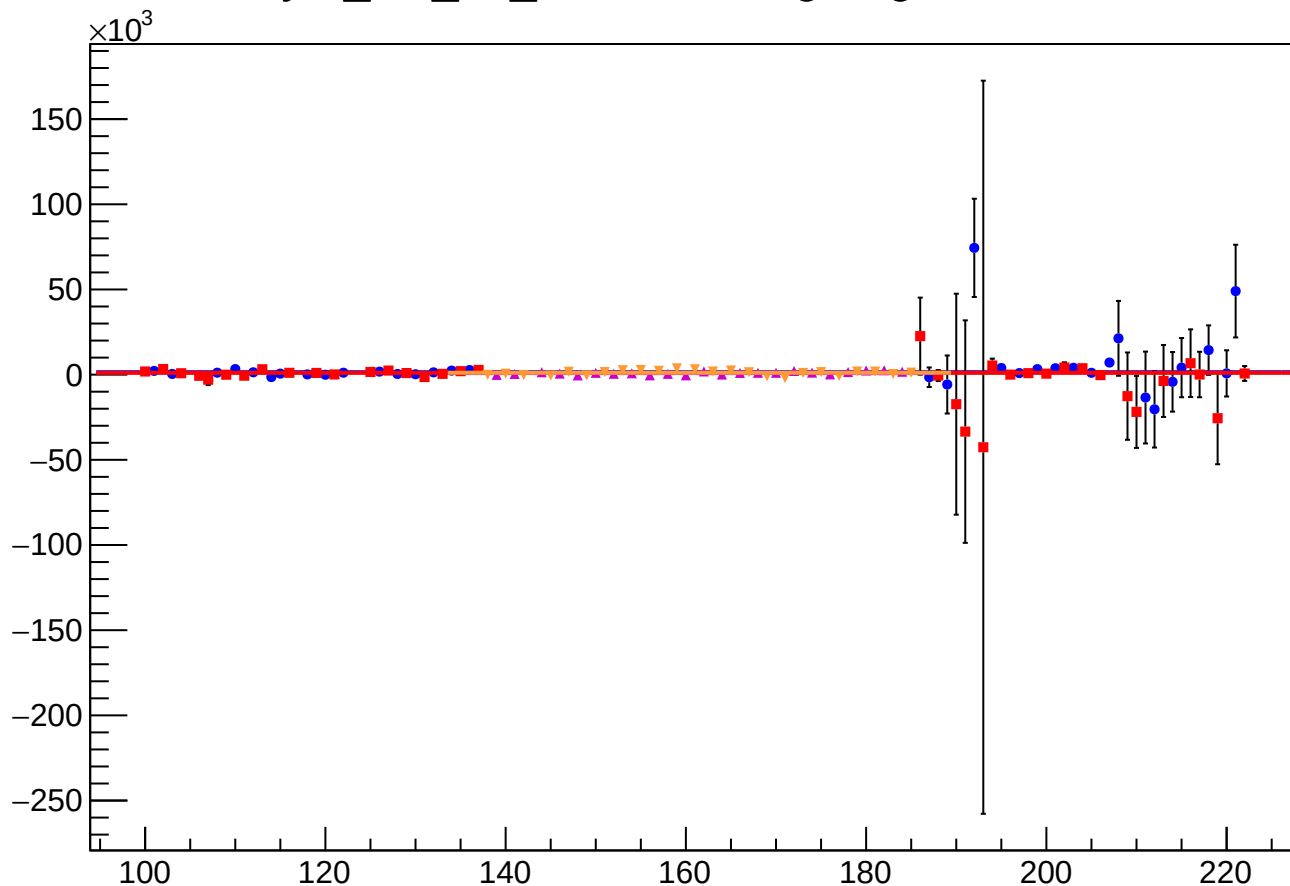
Right: 350.633+/-0.049 χ^2/NDF : 20299173.5/70

In: 532.109+/-0.067 χ^2/NDF : 7039558.1/56

Out: 376.126+/-0.057 χ^2/NDF : 26621578.8/60

All: 440.808+/-0.043 χ^2/NDF : 36811632.4/110

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1416.432 $\pm$ 280.295 χ^2 /NDF: 35.0/33

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

Right Out: 1066.074 $\pm$ 268.851 χ^2 /NDF: 30.6/36

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

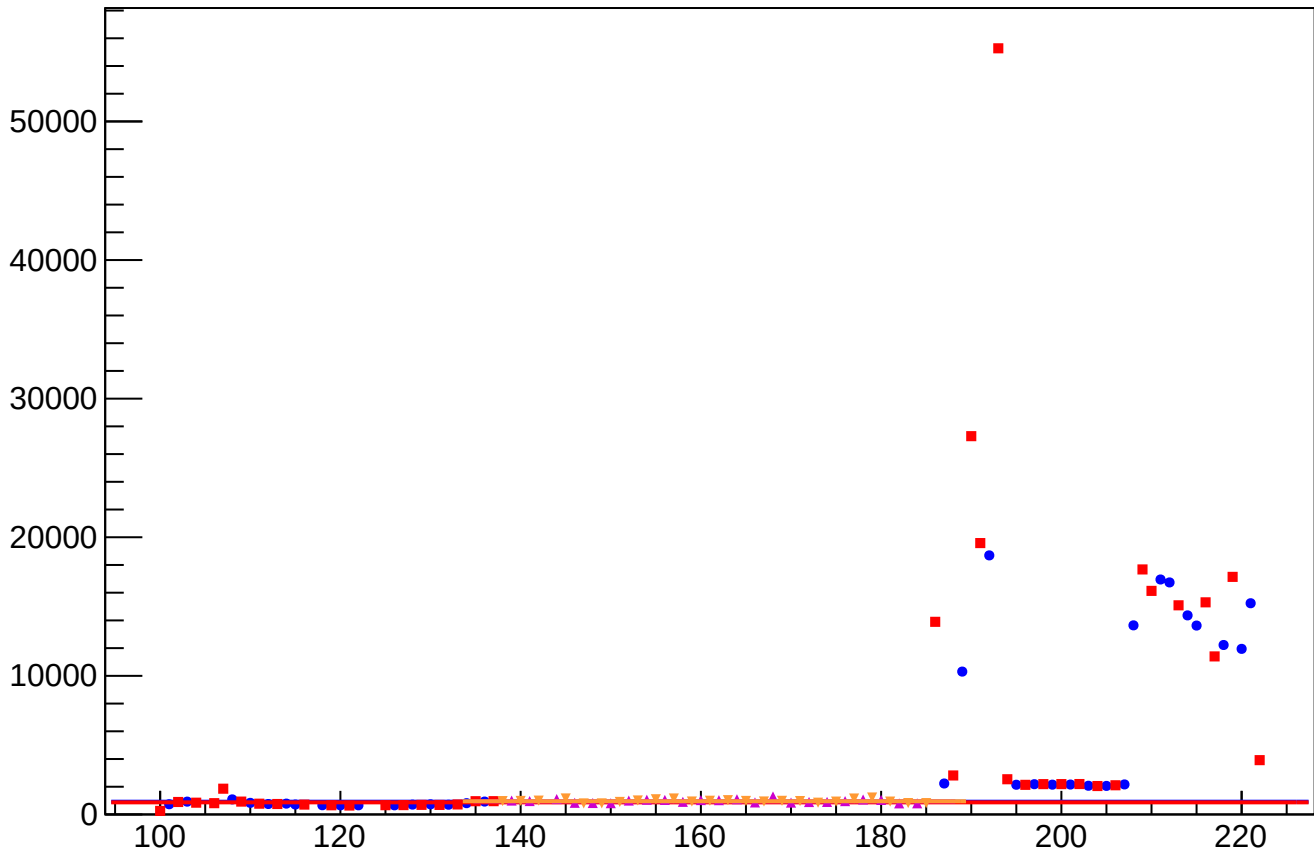
Right: 1233.954 $\pm$ 194.026 χ^2 /NDF: 66.4/70

In: 1121.658 $\pm$ 176.965 χ^2 /NDF:51.9/56

Out: 1088.742 $\pm$ 174.199 χ^2 /NDF:68.9/60

All: 1104.941 $\pm$ 124.144 χ^2 /NDF: 120.8/117

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 920.056+/-0.198 χ^2/NDF : 13744545.2/33

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

Right Out: 872.933+/-0.190 χ^2/NDF : 13962226.3/36

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

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

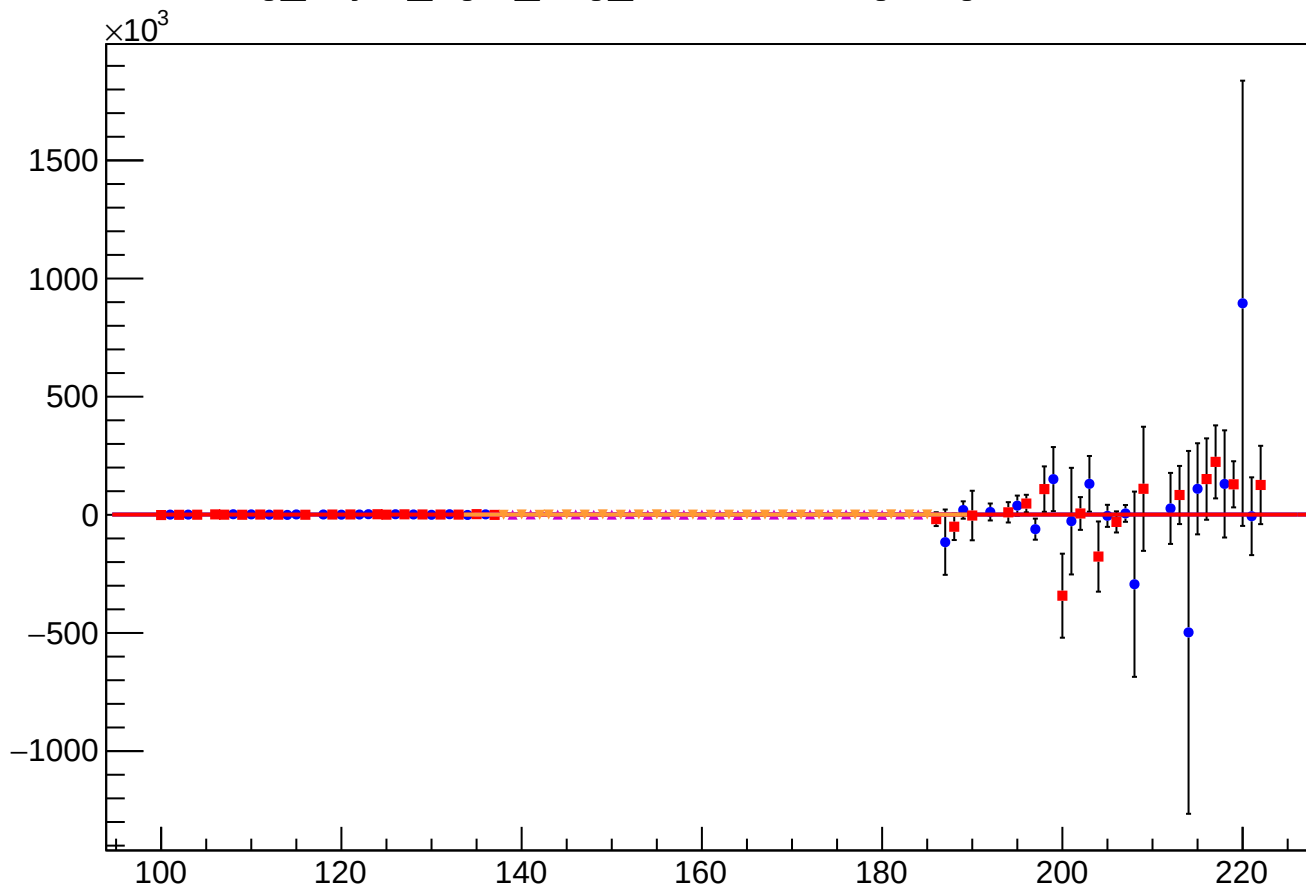
Right: 895.513+/-0.137 χ^2/NDF : 27736214.2/70

In: 935.683+/-0.125 χ^2/NDF : 14256324.7/56

Out: 919.839+/-0.123 χ^2/NDF : 14527369.8/60

All: 927.636+/-0.088 χ^2/NDF : 28791837.2/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.412 $\pm$ 218.578 χ^2 /NDF: 21.6/33

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

Right Out: 1041.304 $\pm$ 212.060 χ^2 /NDF: 29.1/34

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

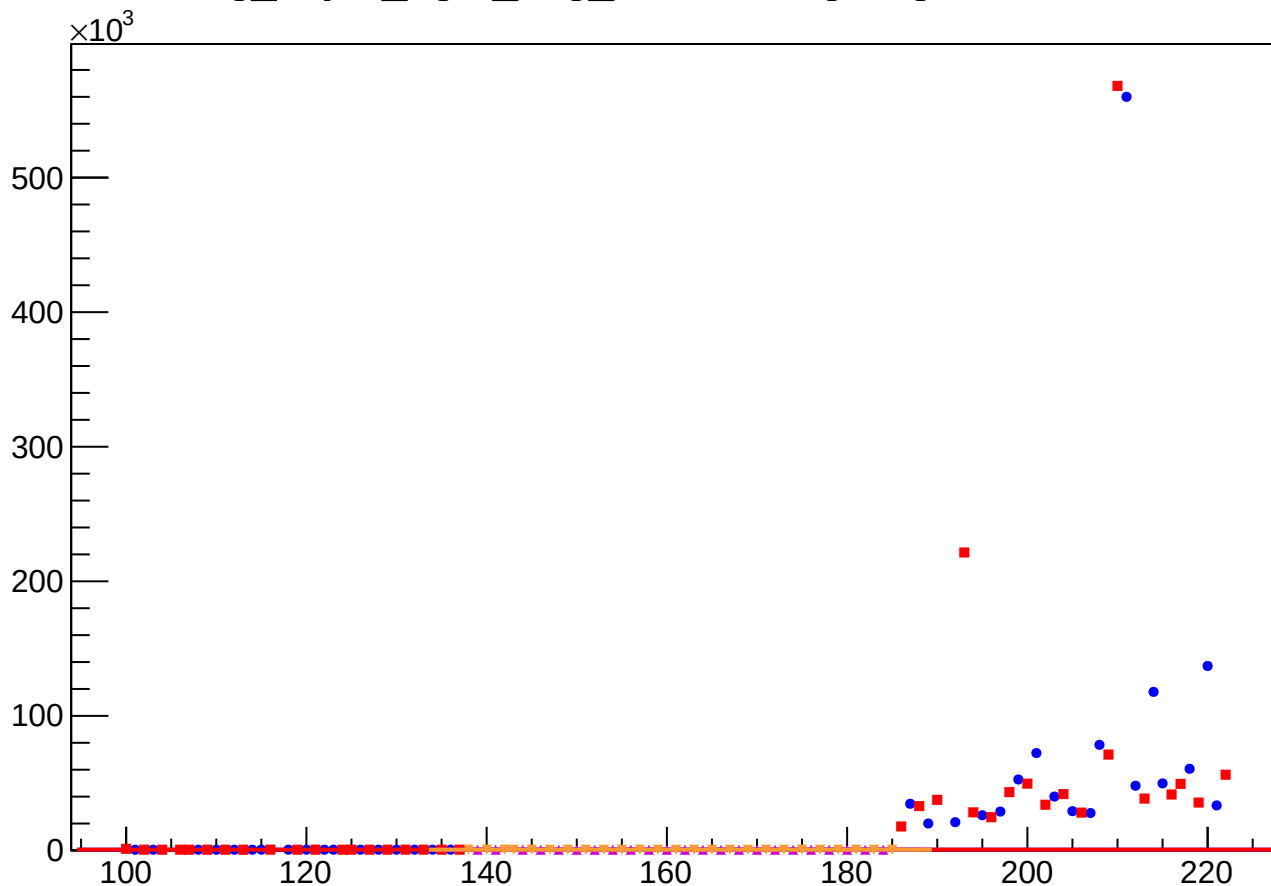
Right: 1179.059 $\pm$ 152.201 χ^2 /NDF: 51.6/68

In: 1178.415 $\pm$ 113.721 χ^2 /NDF:52.3/56

Out: 1064.827 $\pm$ 110.639 χ^2 /NDF:44.2/59

All: 1120.061 $\pm$ 79.301 χ^2 /NDF: 97.0/116

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.860 $\pm$ 0.155 χ^2 /NDF: 6613116.0/34

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

Right Out: 570.302 $\pm$ 0.150 χ^2 /NDF: 6779445.4/36

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

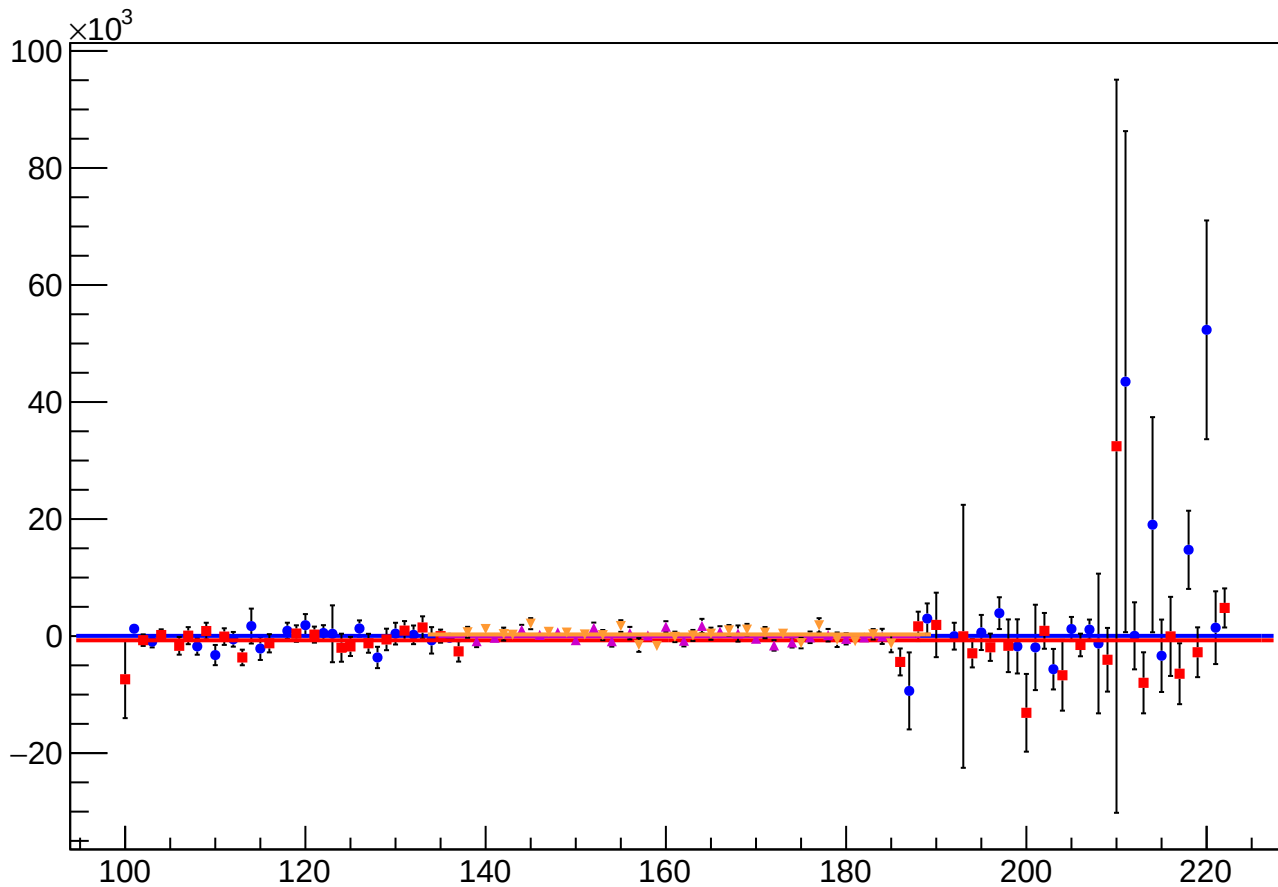
Right: 569.603 $\pm$ 0.108 χ^2 /NDF: 13392606.2/71

In: 560.188 $\pm$ 0.080 χ^2 /NDF:6628642.5/57

Out: 561.010 $\pm$ 0.078 χ^2 /NDF:6799474.4/61

All: 560.610 $\pm$ 0.056 χ^2 /NDF: 13428170.5/134

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 39.263 ± 305.285 χ^2/NDF : 41.4/34

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

Right Out: -721.007 ± 308.524 χ^2/NDF : 31.4/36

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

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

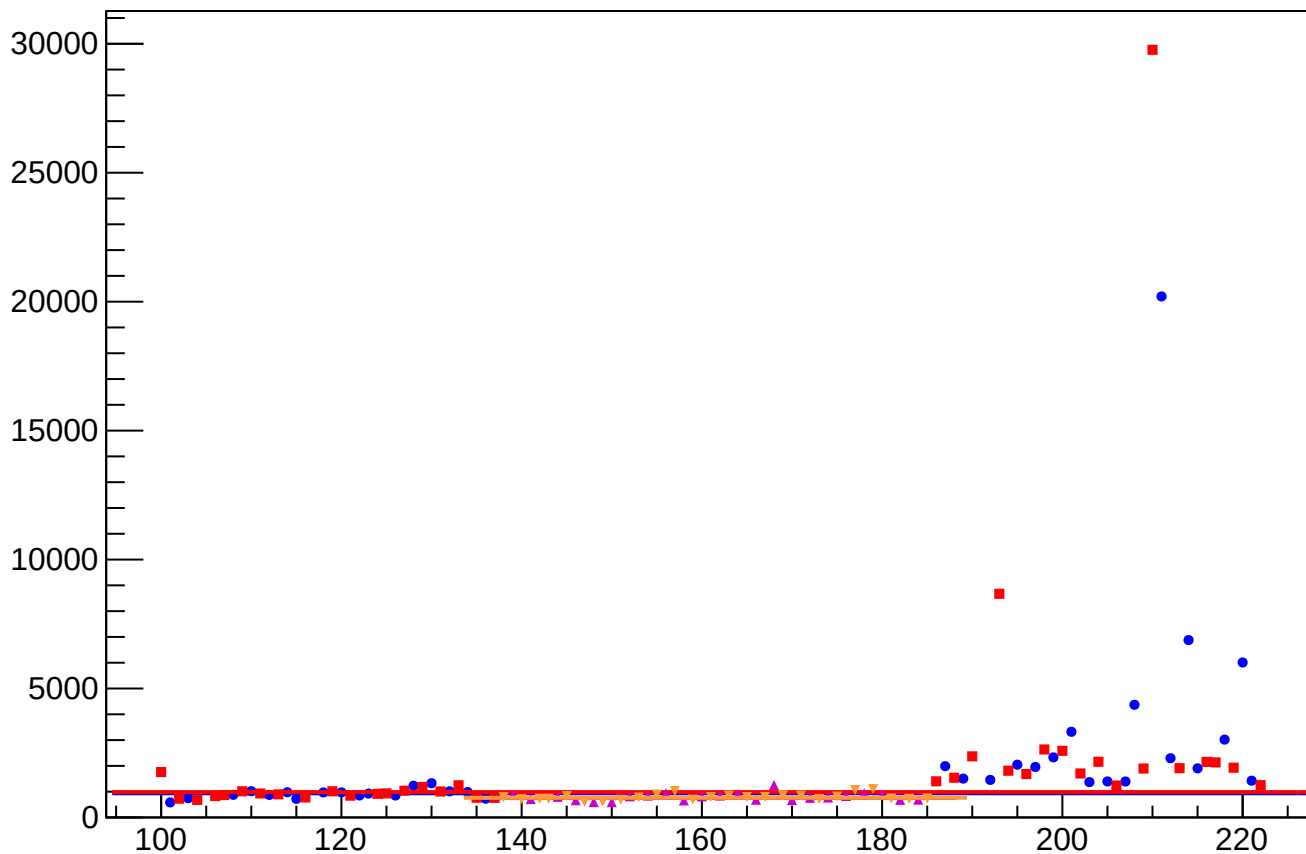
Right: -336.861 ± 217.005 χ^2/NDF : 75.9/71

In: 4.377 ± 157.201 χ^2/NDF : 61.6/57

Out: 26.305 ± 155.747 χ^2/NDF : 66.0/61

All: 15.443 ± 110.640 χ^2/NDF : 127.6/119

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 938.026+/-0.216 χ^2/NDF : 3631369.2/34

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

Right Out: 983.745+/-0.218 χ^2/NDF : 3027713.9/36

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

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

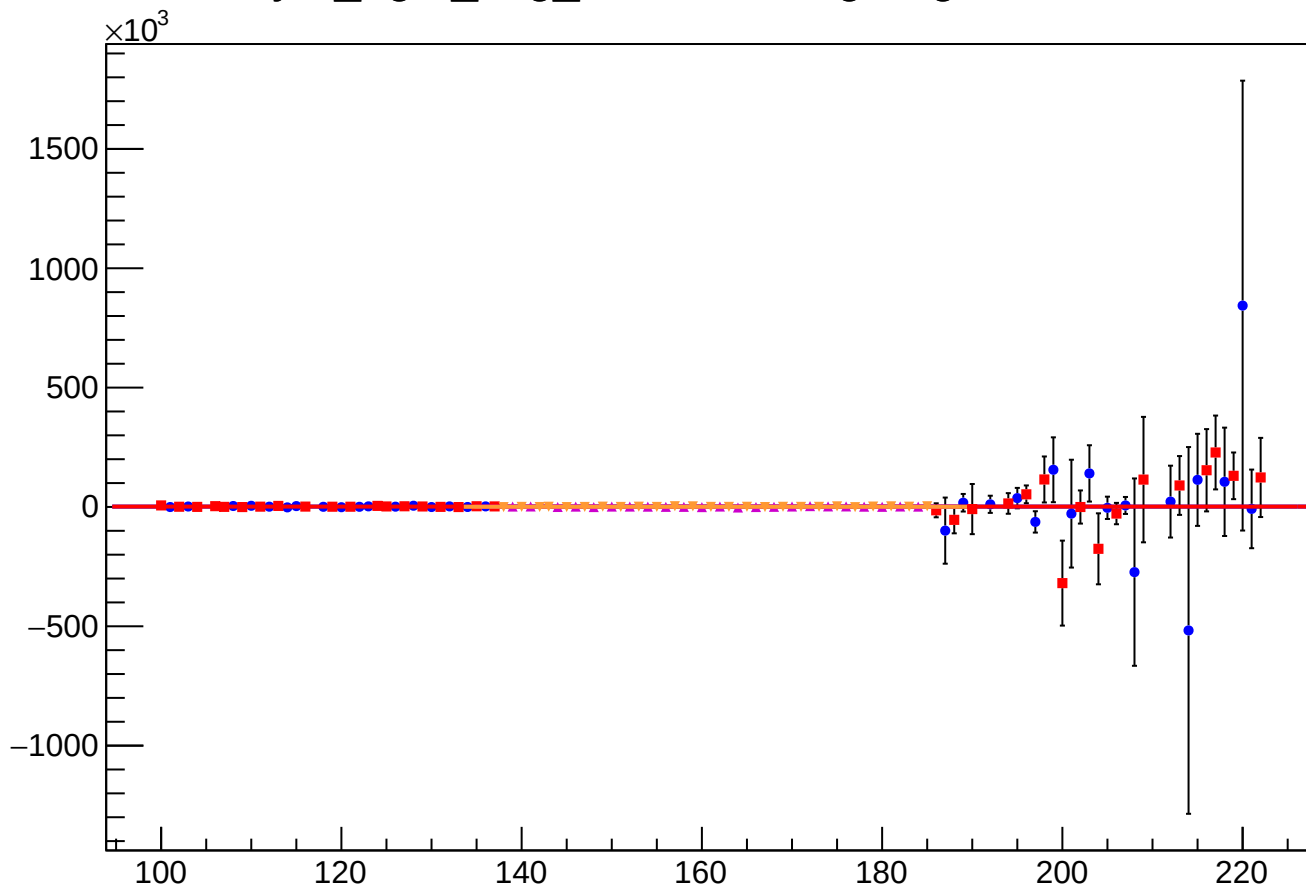
Right: 960.644+/-0.153 χ^2/NDF : 6681273.9/71

In: 802.868+/-0.111 χ^2/NDF : 5096672.0/57

Out: 819.317+/-0.110 χ^2/NDF : 4543768.2/61

All: 811.169+/-0.078 χ^2/NDF : 9651491.2/119

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.922 $\pm$ 402.532 χ^2 /NDF: 25.7/33

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

Right Out: 1492.074 $\pm$ 400.589 χ^2 /NDF: 27.7/34

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

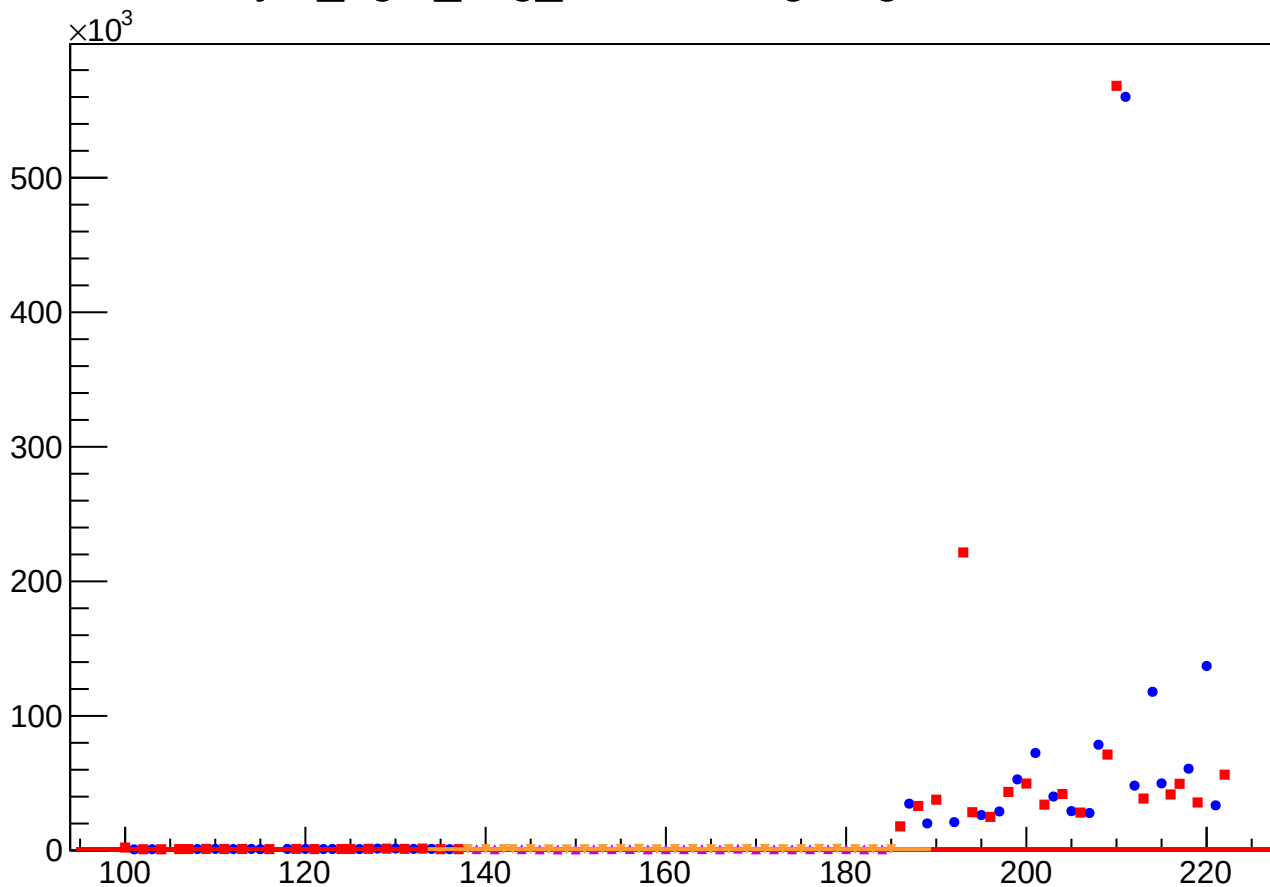
Right: 1496.974 $\pm$ 283.944 χ^2 /NDF: 53.4/68

In: 1217.498 $\pm$ 199.742 χ^2 /NDF: 51.7/56

Out: 920.741 $\pm$ 196.528 χ^2 /NDF: 51.9/59

All: 1066.713 $\pm$ 140.089 χ^2 /NDF: 104.7/116

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.764 $\pm$ 0.285 χ^2 /NDF: 6735852.5/34

Left Out: 962.256 $\pm$ 0.159 χ^2 /NDF: 362937.6/24

Right Out: 1075.286 $\pm$ 0.283 χ^2 /NDF: 6751506.9/36

Left In: 954.643 $\pm$ 0.163 χ^2 /NDF: 443395.0/22

Left: 958.525 $\pm$ 0.114 χ^2 /NDF: 807449.1/47

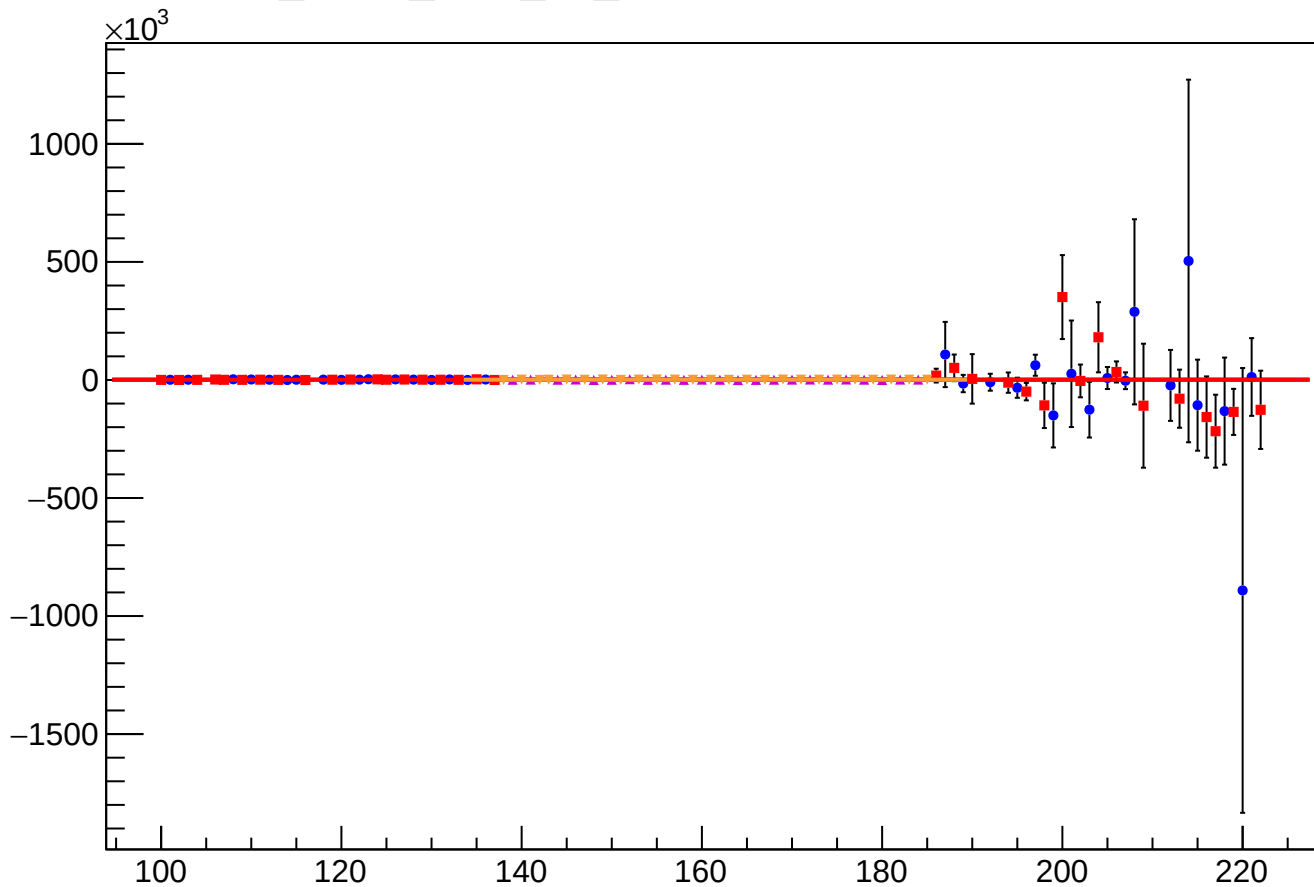
Right: 1057.611 $\pm$ 0.201 χ^2 /NDF: 13495184.6/71

In: 975.603 $\pm$ 0.141 χ^2 /NDF: 7246660.3/57

Out: 989.461 $\pm$ 0.139 χ^2 /NDF: 7235350.4/61

All: 982.644 $\pm$ 0.099 χ^2 /NDF: 14486902.2/11

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.185 ± 218.833 $\chi^2/\text{NDF}: 20.4/33$

Left Out: 1087.627 ± 129.821 $\chi^2/\text{NDF}: 14.9/24$

Right Out: 964.377 ± 208.596 $\chi^2/\text{NDF}: 28.4/34$

Left In: 1189.481 ± 133.313 $\chi^2/\text{NDF}: 32.2/22$

Left: 1137.202 ± 93.008 $\chi^2/\text{NDF}: 47.4/47$

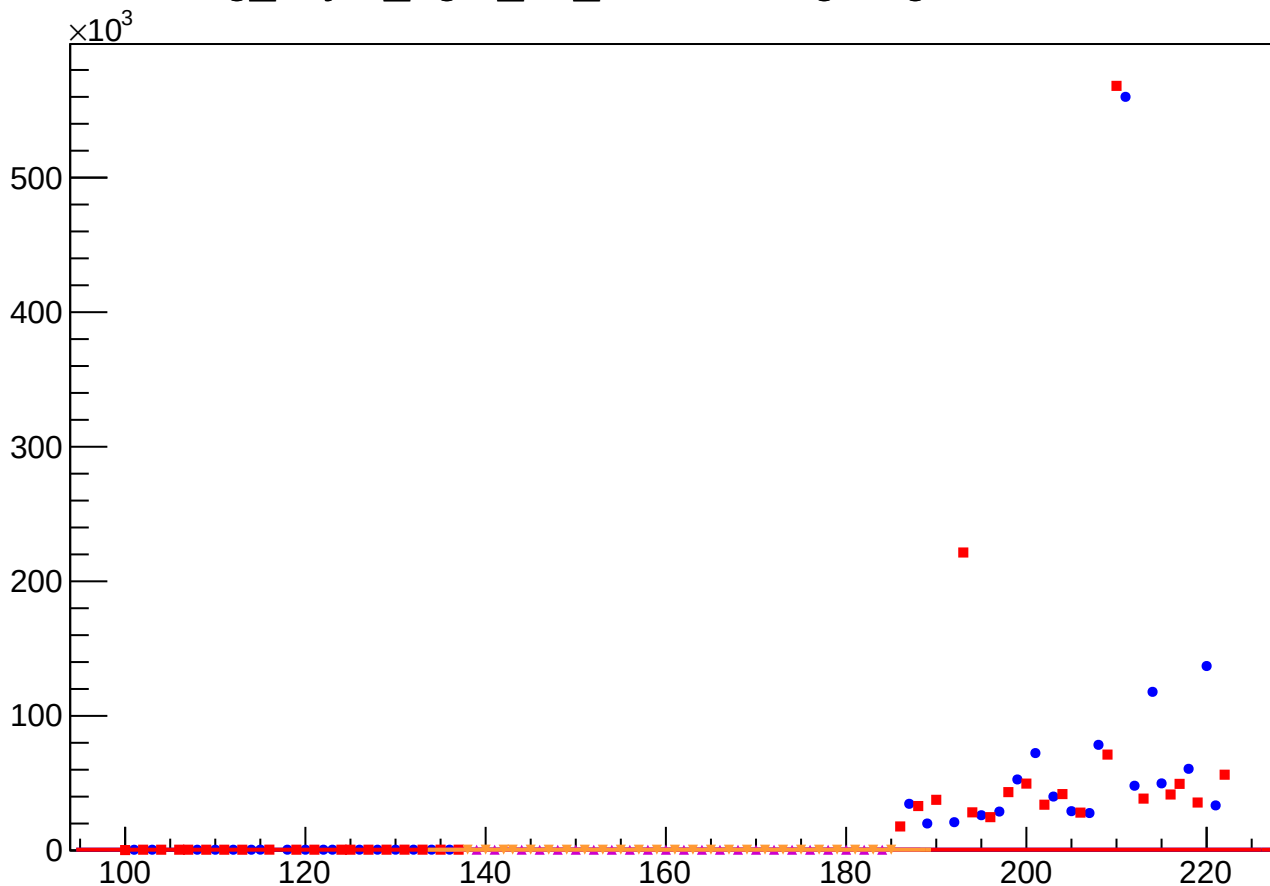
Right: 1145.190 ± 150.989 $\chi^2/\text{NDF}: 50.5/68$

In: 1231.355 ± 113.850 $\chi^2/\text{NDF}: 52.9/56$

Out: 1053.216 ± 110.219 $\chi^2/\text{NDF}: 43.6/59$

All: 1139.400 ± 79.189 $\chi^2/\text{NDF}: 97.9/116$

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.524 $\pm$ 0.155 χ^2 /NDF: 6613284.2/34

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

Right Out: 559.276 $\pm$ 0.147 χ^2 /NDF: 6867733.7/36

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

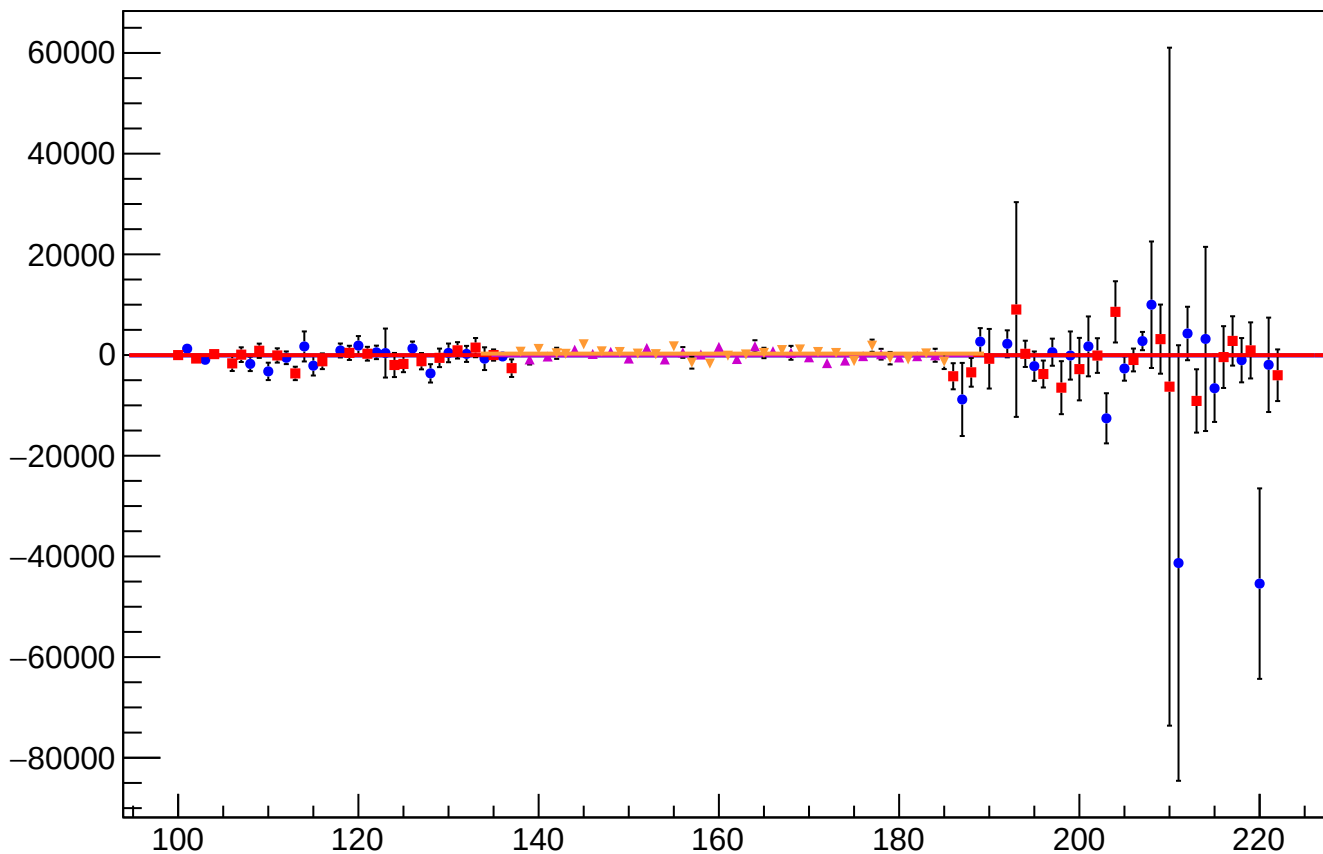
Right: 564.155 $\pm$ 0.107 χ^2 /NDF: 13483315.7/71

In: 560.825 $\pm$ 0.081 χ^2 /NDF: 6628894.3/57

Out: 558.428 $\pm$ 0.078 χ^2 /NDF: 6882564.8/61

All: 559.588 $\pm$ 0.056 χ^2 /NDF: 13511916.8/131

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -80.519 ± 307.930 χ^2/NDF : 39.9/34

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

Right Out: -23.075 ± 38.921 χ^2/NDF : 29.3/36

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

Left: 139.424 ± 128.663 χ^2/NDF : 48.2/47

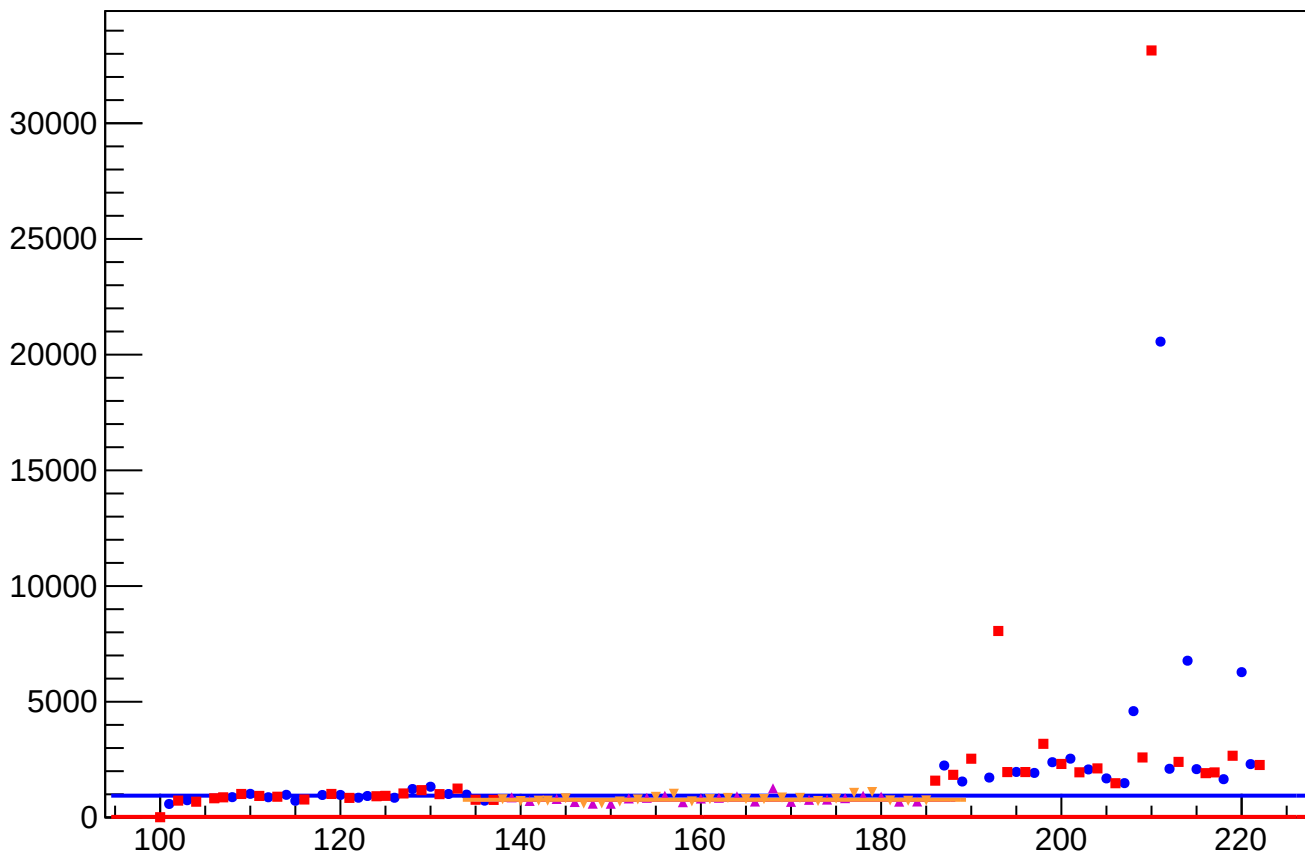
Right: -23.978 ± 38.614 χ^2/NDF : 69.2/71

In: -26.488 ± 157.616 χ^2/NDF : 60.1/57

Out: -9.544 ± 38.047 χ^2/NDF : 58.8/61

All: -10.477 ± 36.984 χ^2/NDF : 118.9/119

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 942.088+/-0.218

χ^2/NDF : 3724968.1/34

Left Out: 763.307+/-0.128

χ^2/NDF : 753728.9/24

Right Out: 25.109+/-0.028

χ^2/NDF : 22928005.0/36

Left In: 754.483+/-0.130

χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091

χ^2/NDF : 1687616.8/47

Right: 39.528+/-0.027

χ^2/NDF : 44109914.9/71

In: 803.635+/-0.111

χ^2/NDF : 5204375.6/57

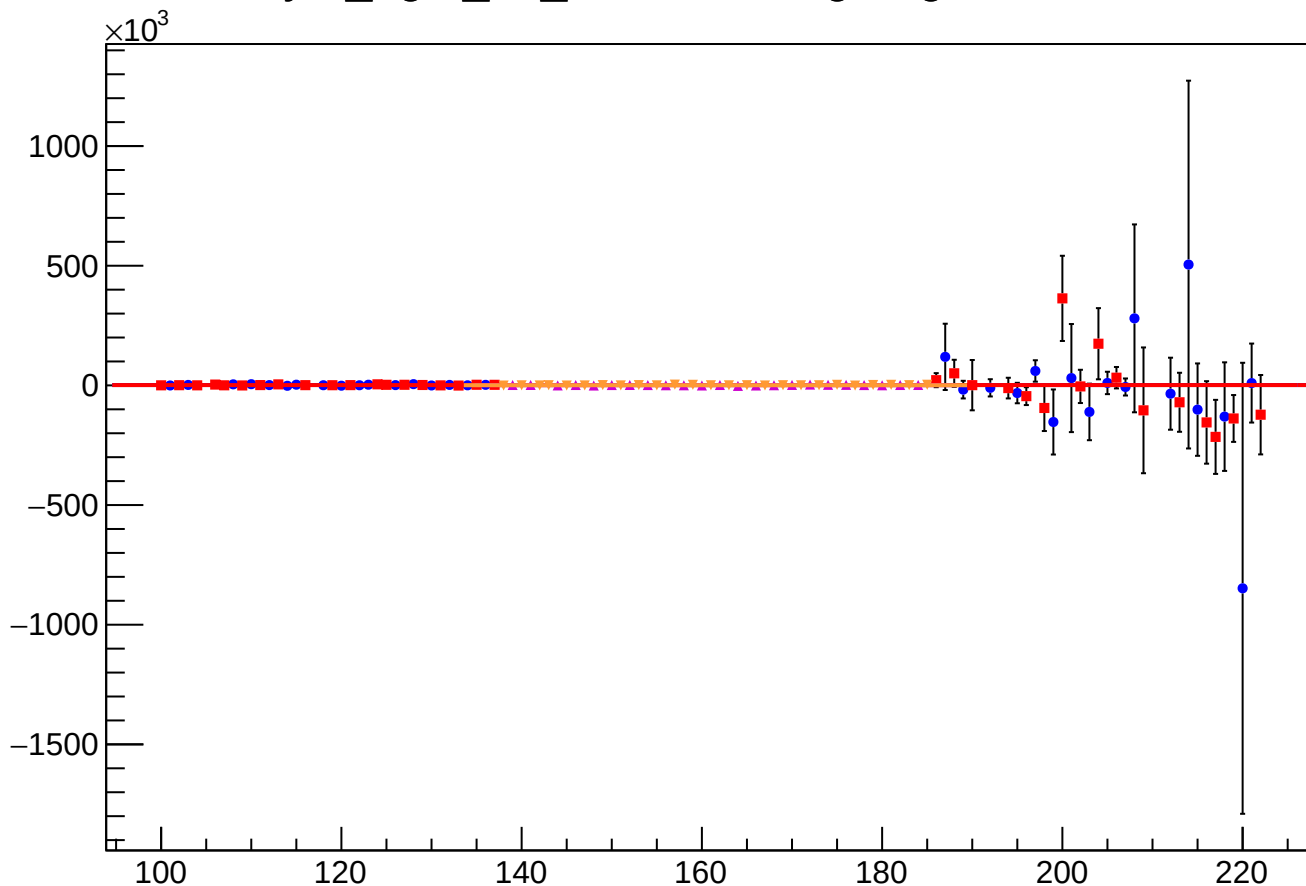
Out: 57.915+/-0.027

χ^2/NDF : 55654799.1/61

All: 98.974+/-0.026

χ^2/NDF : 103163613.6/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.735 $\pm$ 402.755 χ^2 /NDF: 26.0/33

Left Out: 742.825 $\pm$ 225.658 χ^2 /NDF: 20.2/24

Right Out: 1285.078 $\pm$ 376.572 χ^2 /NDF: 28.1/34

Left In: 1176.288 $\pm$ 230.229 χ^2 /NDF: 24.2/22

Left: 955.211 $\pm$ 161.156 χ^2 /NDF: 46.3/47

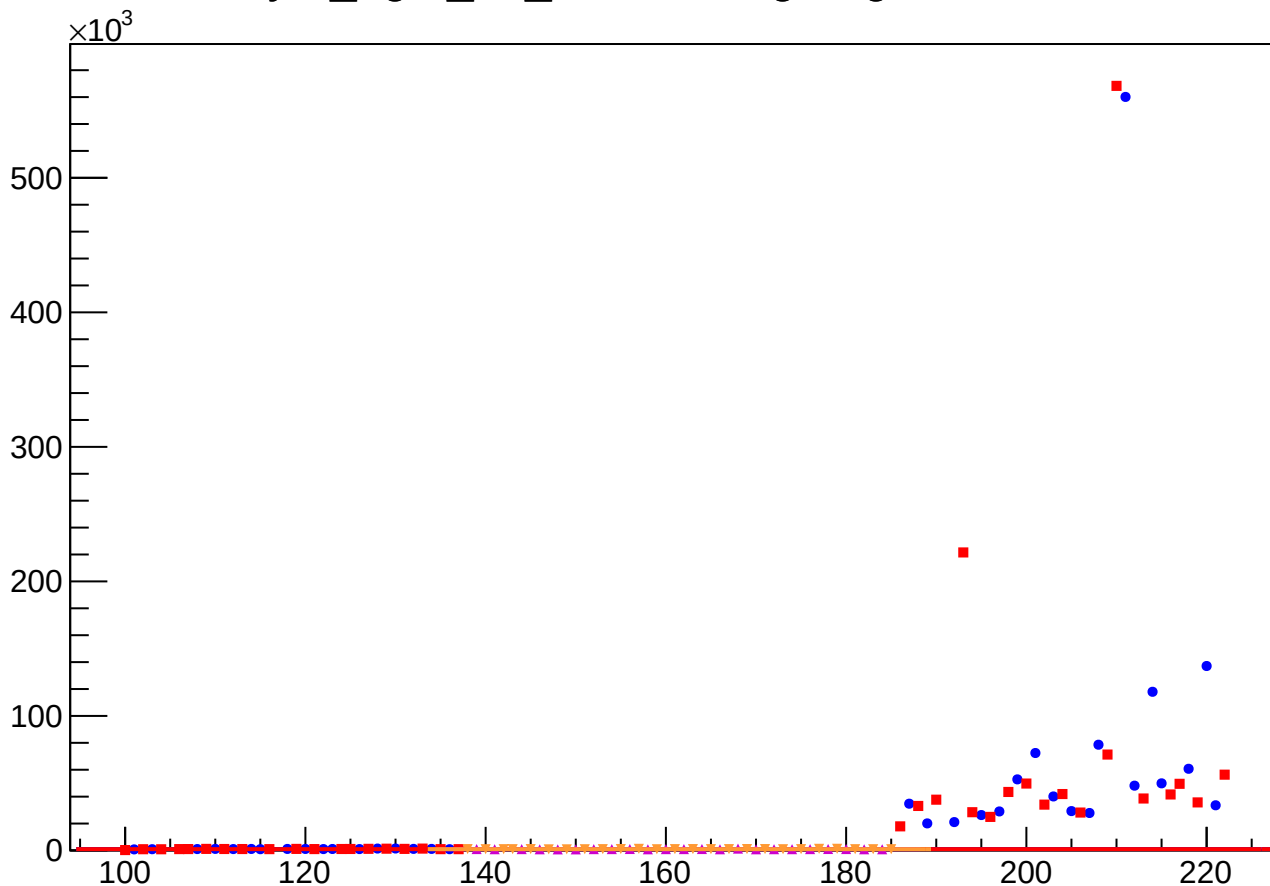
Right: 1392.199 $\pm$ 275.068 χ^2 /NDF: 54.2/68

In: 1259.643 $\pm$ 199.877 χ^2 /NDF: 50.7/56

Out: 886.096 $\pm$ 193.565 χ^2 /NDF: 49.8/59

All: 1066.878 $\pm$ 139.049 χ^2 /NDF: 102.4/116

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.348 $\pm$ 0.285 χ^2 /NDF: 6736491.0/34

Left Out: 962.776 $\pm$ 0.160 χ^2 /NDF: 362837.8/24

Right Out: 979.559 $\pm$ 0.266 χ^2 /NDF: 7629075.5/36

Left In: 955.331 $\pm$ 0.163 χ^2 /NDF: 443068.5/22

Left: 959.128 $\pm$ 0.114 χ^2 /NDF: 806973.3/47

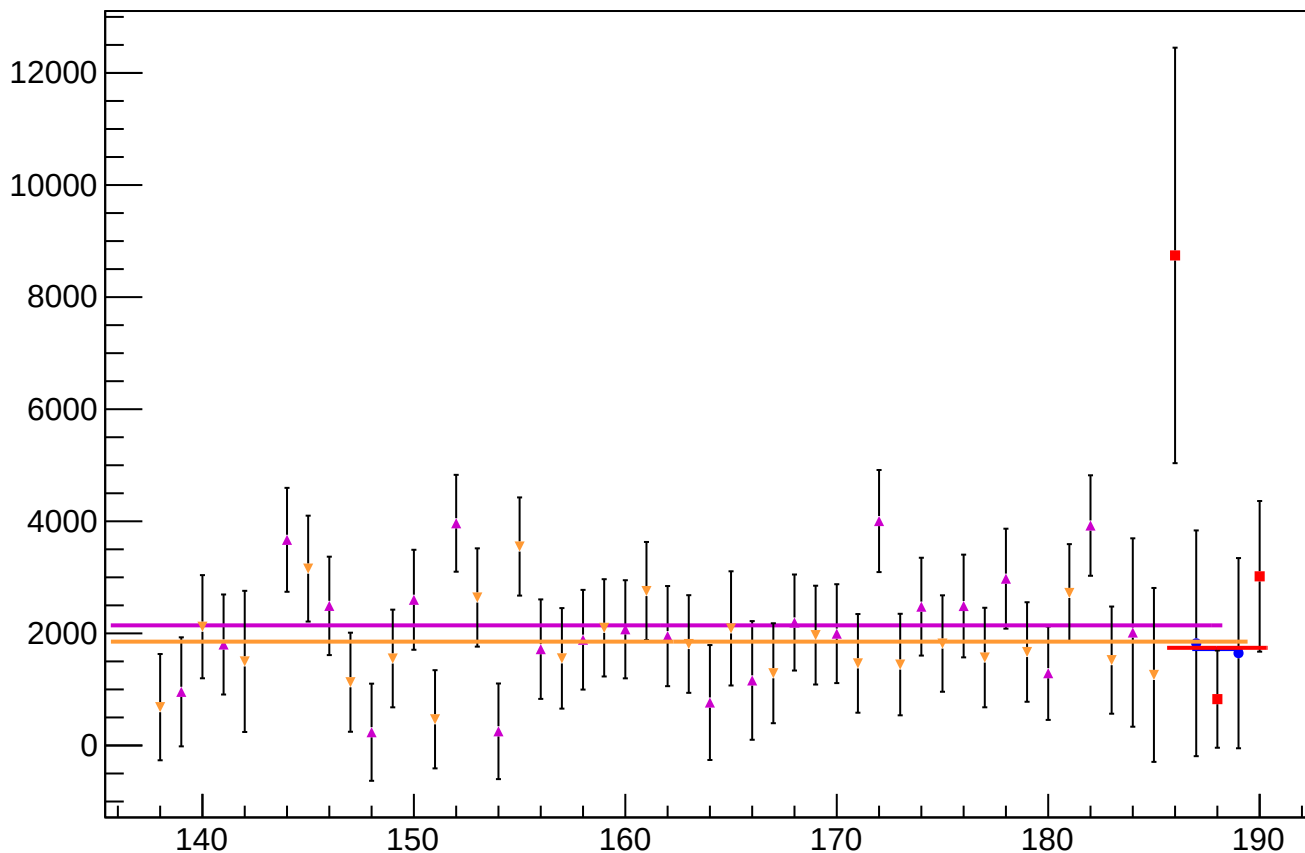
Right: 1007.914 $\pm$ 0.195 χ^2 /NDF: 14389876.1/71

In: 976.269 $\pm$ 0.141 χ^2 /NDF: 7246728.9/57

Out: 967.211 $\pm$ 0.137 χ^2 /NDF: 7994836.2/61

All: 971.595 $\pm$ 0.098 χ^2 /NDF: 15243685.0/131

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097 $\pm$ 1297.686 χ^2 /NDF: 0.0/1

Left Out: 1852.926 $\pm$ 187.412 χ^2 /NDF:15.0/23

Right Out: 1742.386 $\pm$ 715.276 χ^2 /NDF: 5.6/2

Left In: 2143.254 $\pm$ 190.144 χ^2 /NDF:32.4/22

Left: 1995.990 $\pm$ 133.476 χ^2 /NDF: 48.5/46

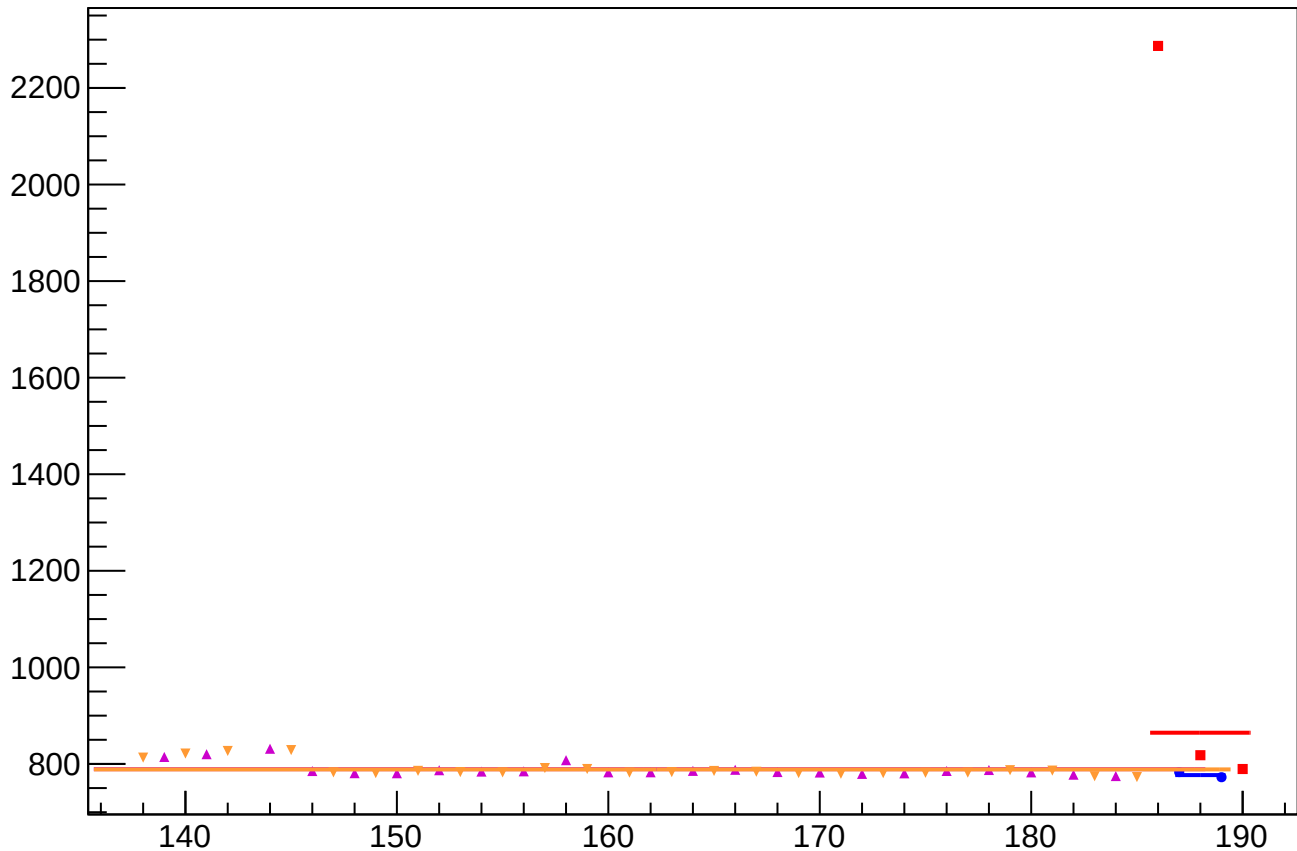
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

In: 2134.360 $\pm$ 188.135 χ^2 /NDF:32.5/24

Out: 1845.825 $\pm$ 181.293 χ^2 /NDF:20.6/26

All: 1984.750 $\pm$ 130.545 χ^2 /NDF: 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892 $\pm$ 0.918 χ^2 /NDF: 32.5/1

Left Out: 788.658 $\pm$ 0.133 χ^2 /NDF:11499.7/23

Right Out: 864.658 $\pm$ 0.506 χ^2 /NDF: 306489.7/2

Left In: 789.176 $\pm$ 0.134 χ^2 /NDF:10860.4/22

Left: 788.914 $\pm$ 0.094 χ^2 /NDF: 22367.7/46

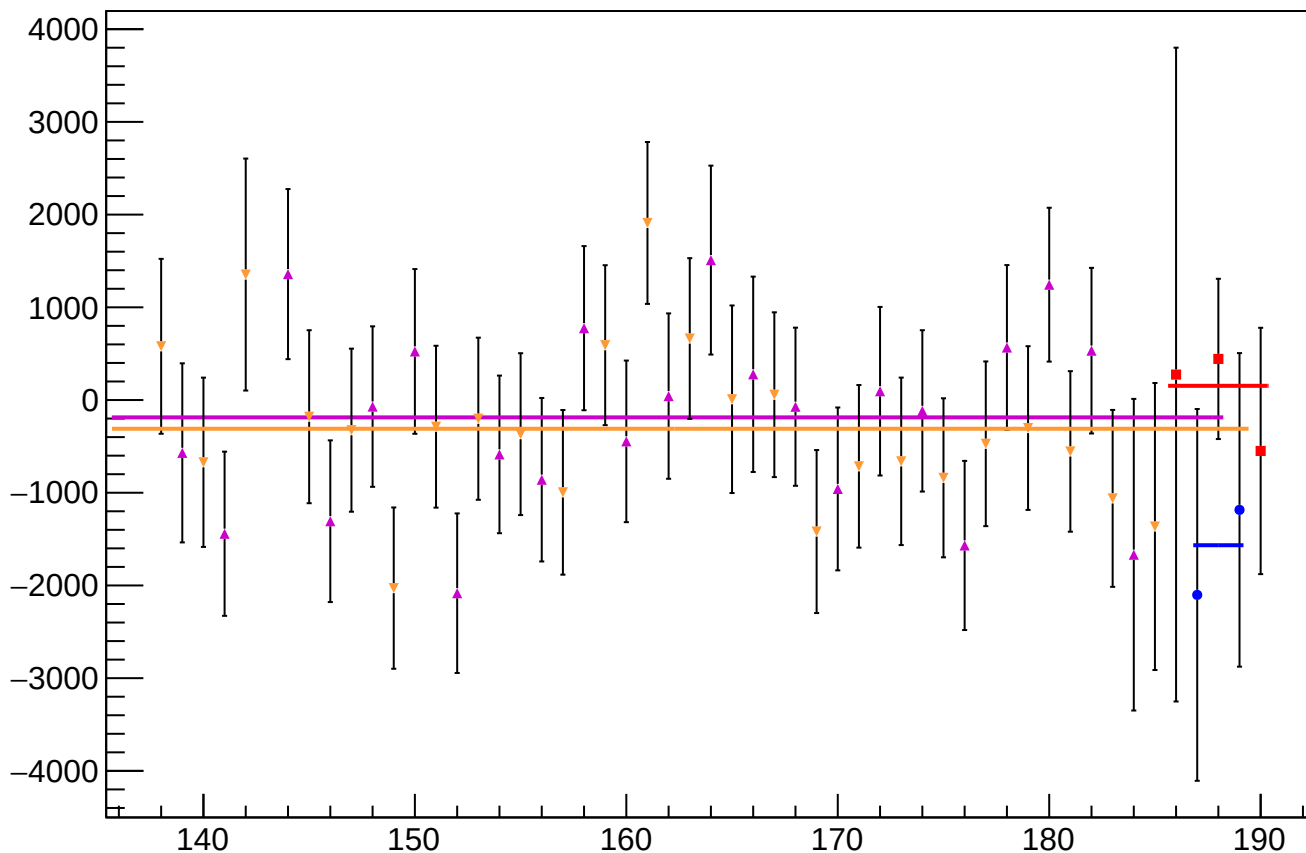
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

In: 788.918 $\pm$ 0.133 χ^2 /NDF:11068.4/24

Out: 793.541 $\pm$ 0.128 χ^2 /NDF:339118.2/26

All: 791.315 $\pm$ 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

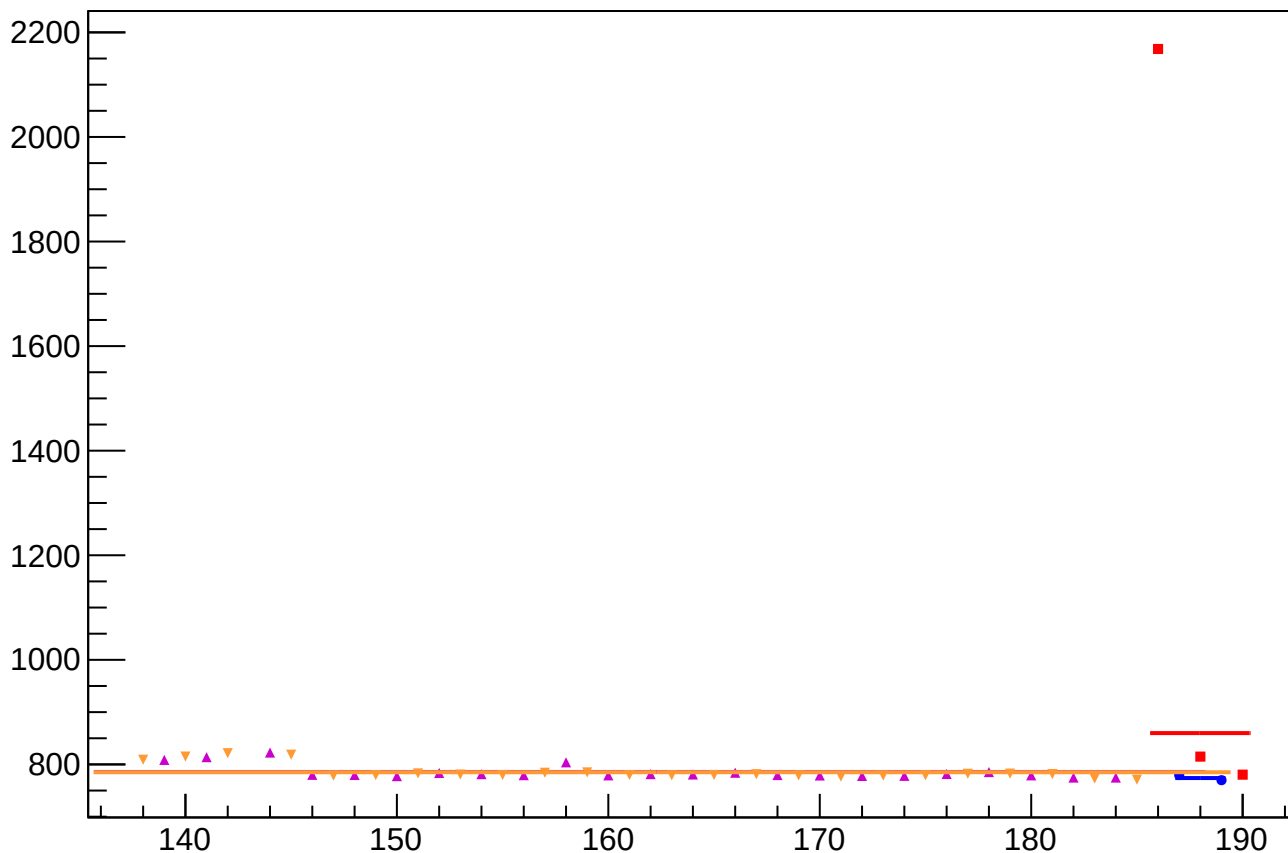
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

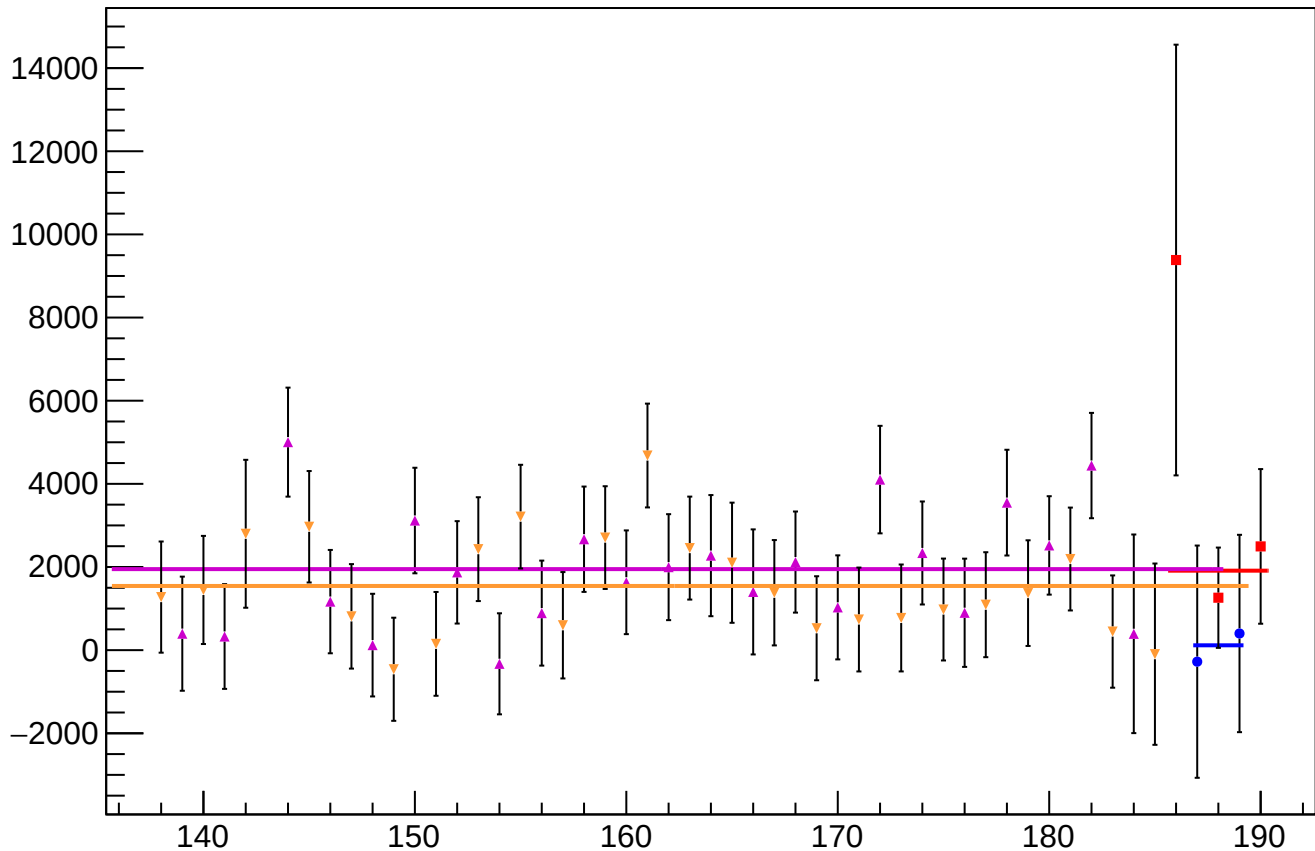
Right: 839.990+/-0.440 χ^2/NDF : 294774.5/4

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

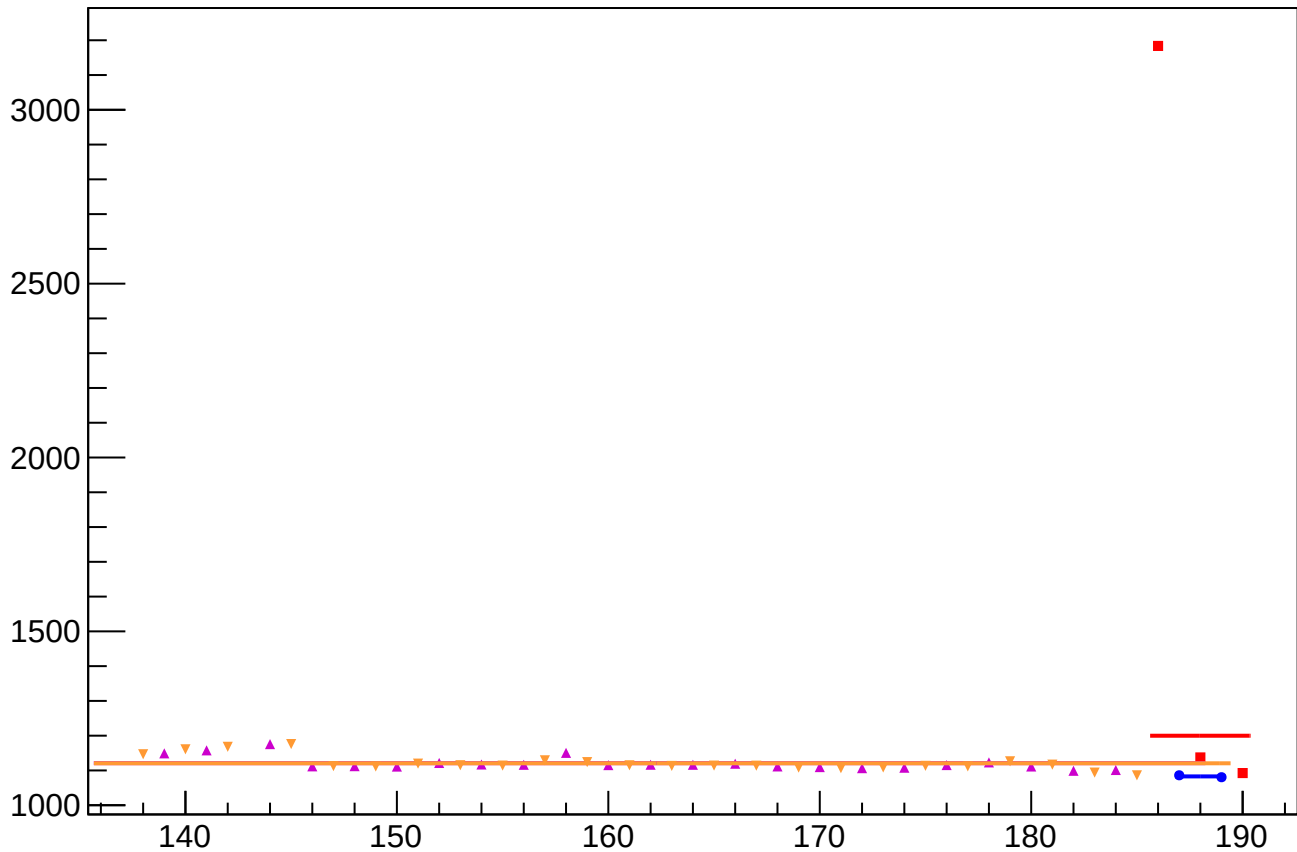
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

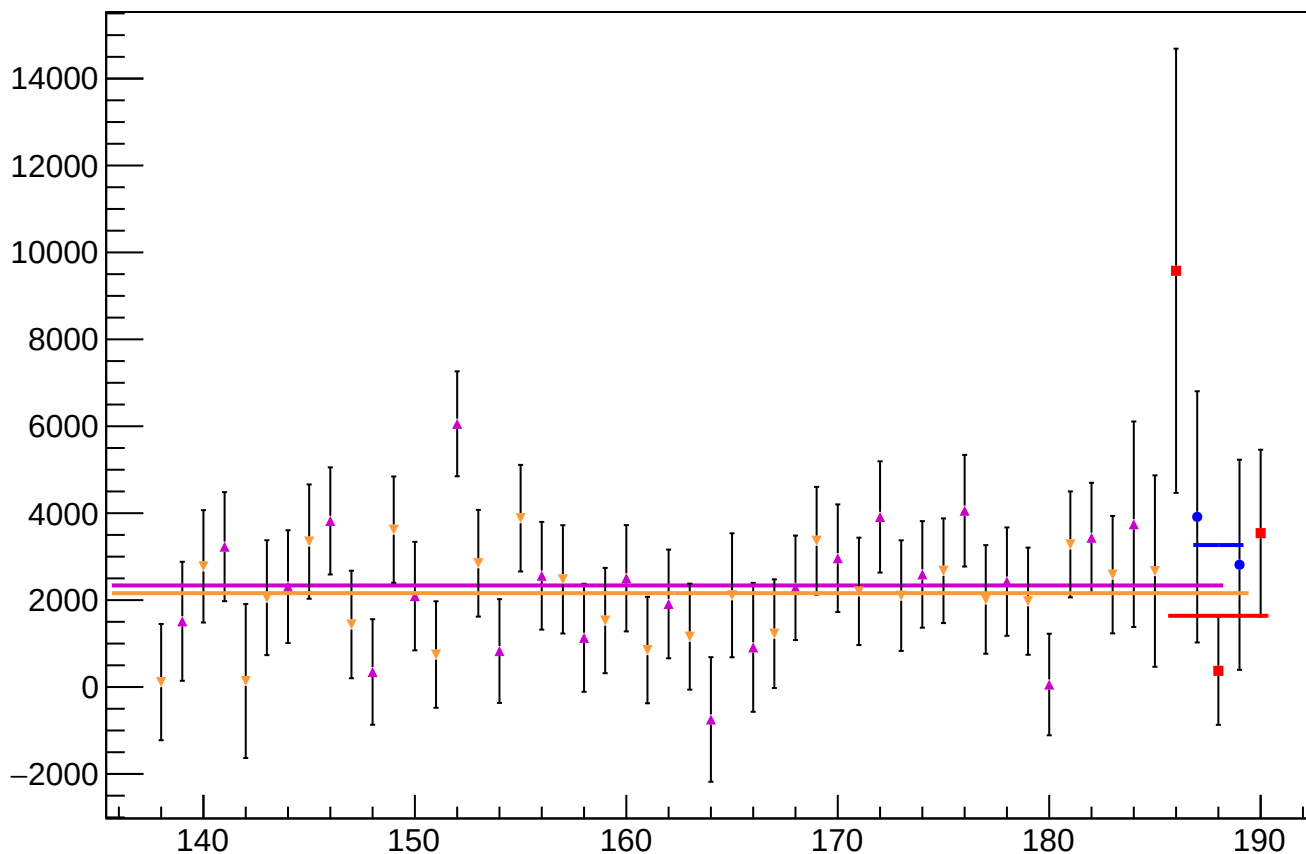
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

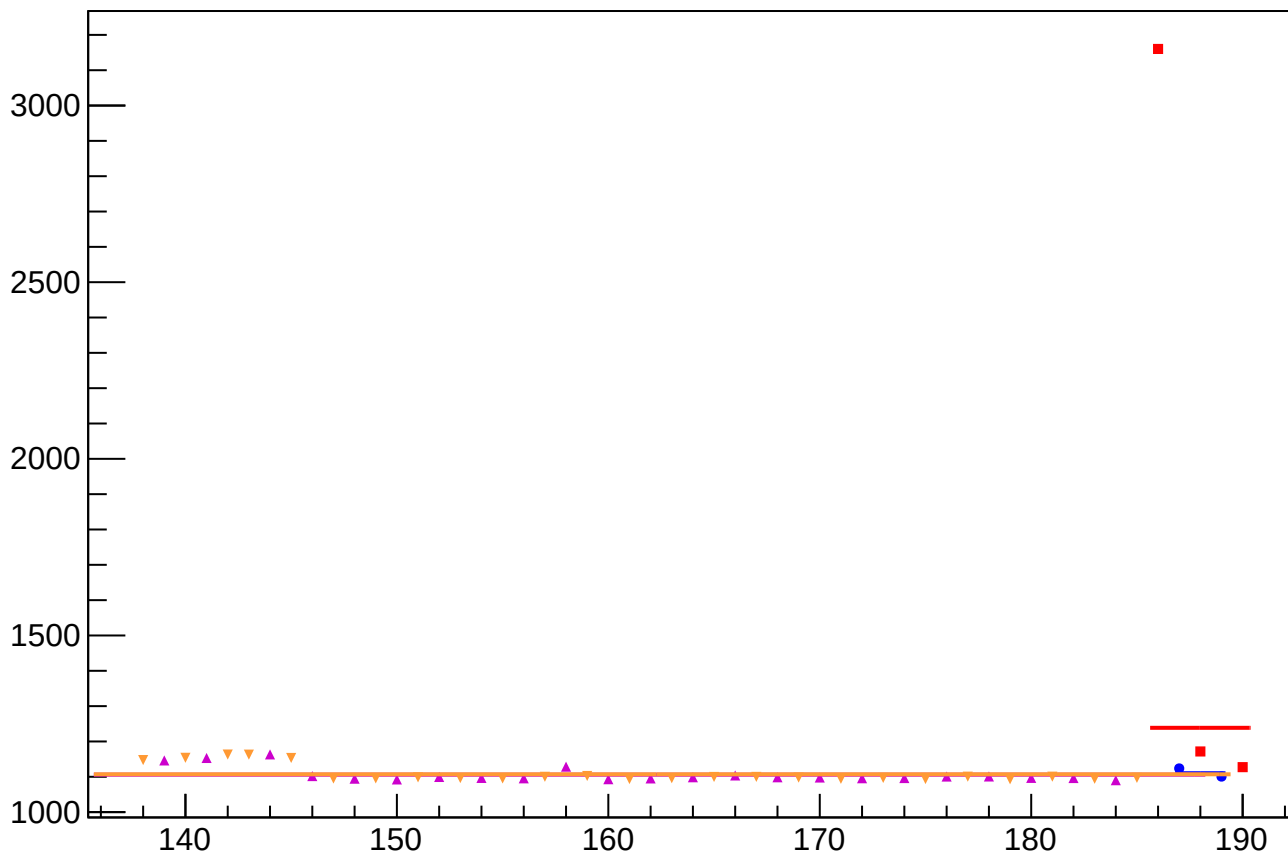
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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+/-1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091+/-0.182 χ^2/NDF :15185.2/24

Right Out: 1238.637+/-0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955+/-0.188 χ^2/NDF :11111.3/22

Left: 1106.543+/-0.131 χ^2/NDF : 26315.2/47

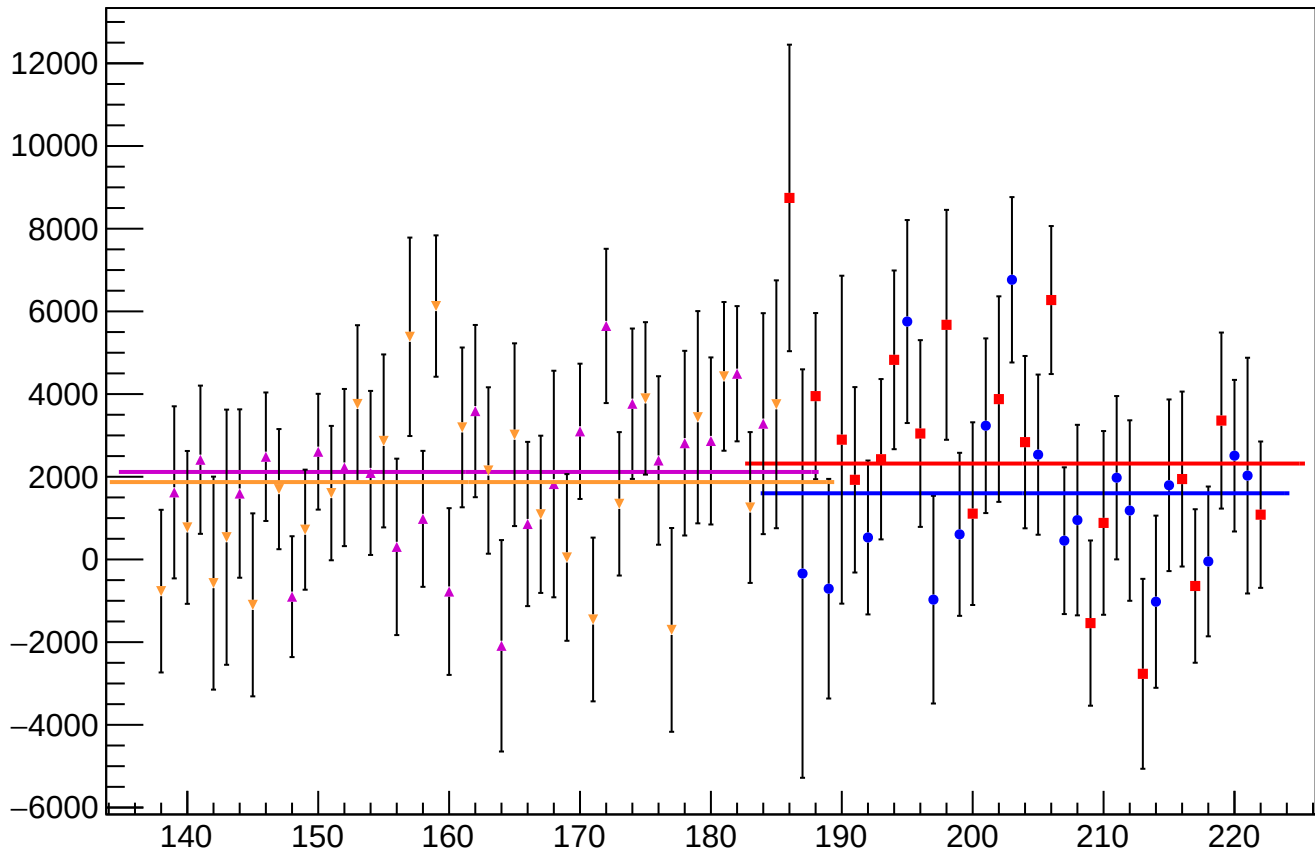
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

In: 1106.039+/-0.187 χ^2/NDF :11196.4/24

Out: 1114.943+/-0.177 χ^2/NDF :341579.9/27

All: 1110.735+/-0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1600.572+/-502.926 χ^2/NDF : 16.2/17

Left Out: 1871.638+/-391.684 χ^2/NDF : 26.1/24

Right Out: 2319.559+/-500.420 χ^2/NDF : 24.6/18

Left In: 2116.114+/-392.997 χ^2/NDF : 18.8/22

Left: 1993.467+/-277.425 χ^2/NDF : 45.1/47

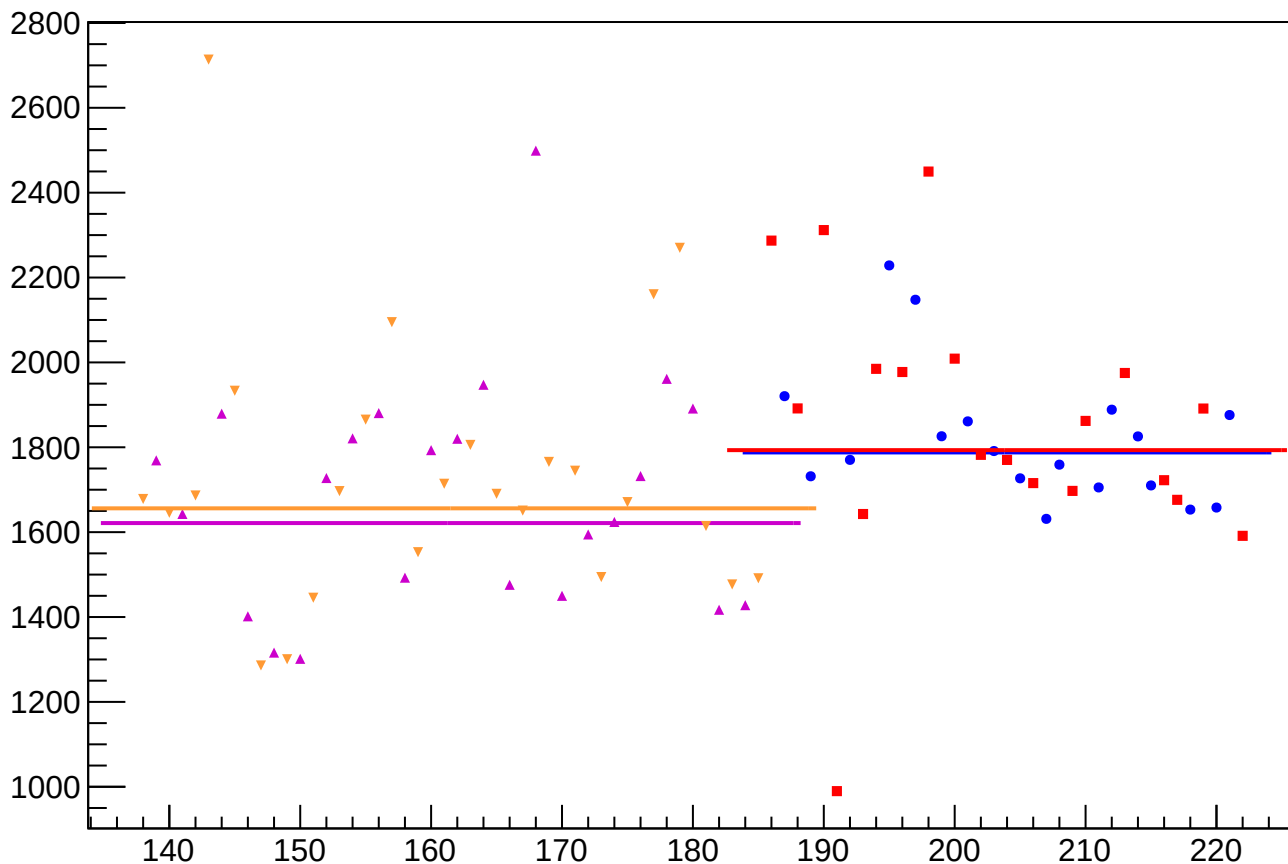
Right: 1961.861+/-354.733 χ^2/NDF : 41.8/36

In: 1920.662+/-309.665 χ^2/NDF : 35.6/40

Out: 2041.802+/-308.438 χ^2/NDF : 51.2/43

All: 1981.472+/-218.531 χ^2/NDF : 86.9/84

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1787.867 $\pm$ 0.356 χ^2 /NDF: 163217.7/17

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

Right Out: 1793.266 $\pm$ 0.354 χ^2 /NDF: 566452.7/18

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

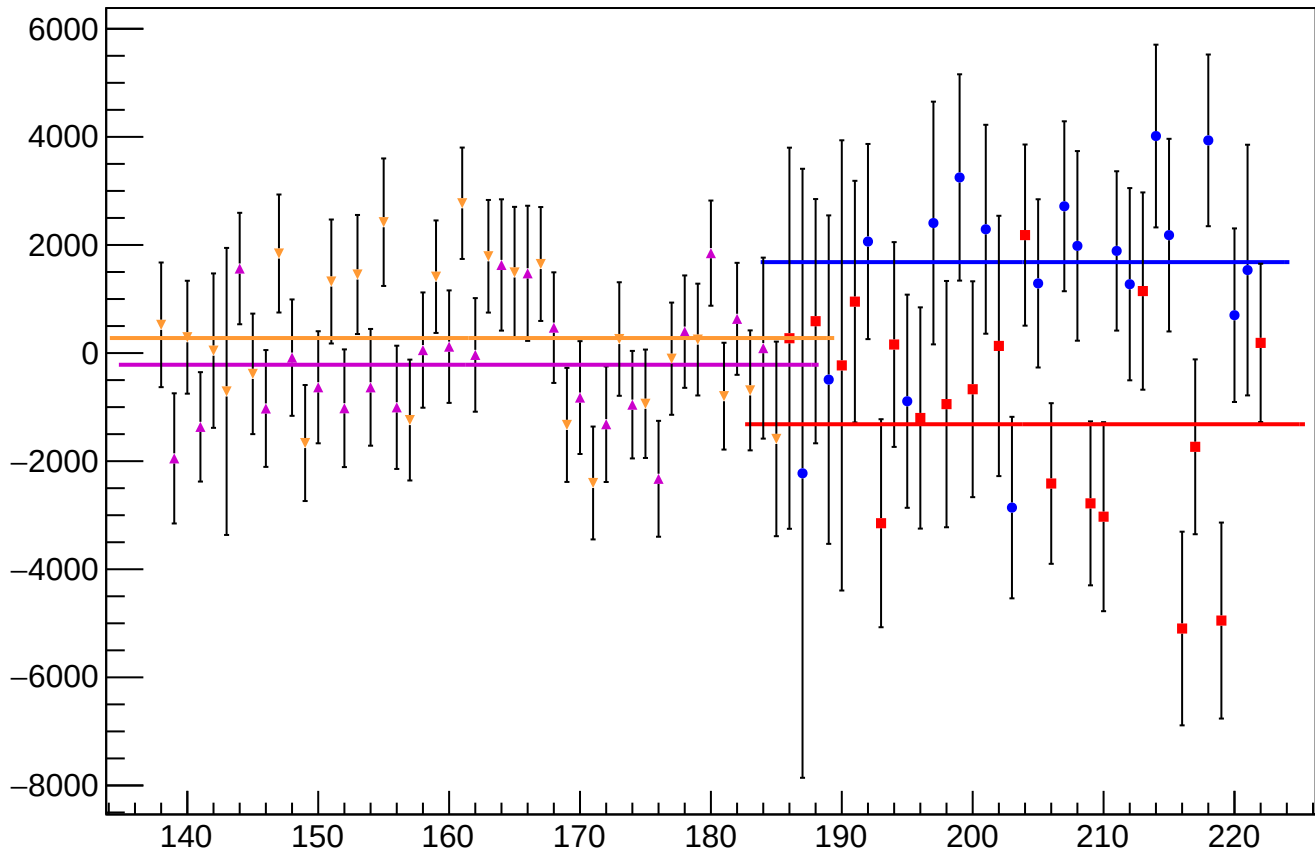
Right: 1790.580 $\pm$ 0.251 χ^2 /NDF: 729786.2/36

In: 1684.522 $\pm$ 0.219 χ^2 /NDF: 1074546.8/40

Out: 1708.221 $\pm$ 0.218 χ^2 /NDF: 1570178.7/43

All: 1696.418 $\pm$ 0.155 χ^2 /NDF: 2650605.9/84

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1682.760 ± 432.237 $\chi^2/\text{NDF}: 15.9/17$

Left Out: 278.090 ± 223.581 $\chi^2/\text{NDF}: 38.4/24$

Right Out: -1316.757 ± 435.531 $\chi^2/\text{NDF}: 22.2/18$

Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 33.207 ± 158.805 $\chi^2/\text{NDF}: 65.2/47$

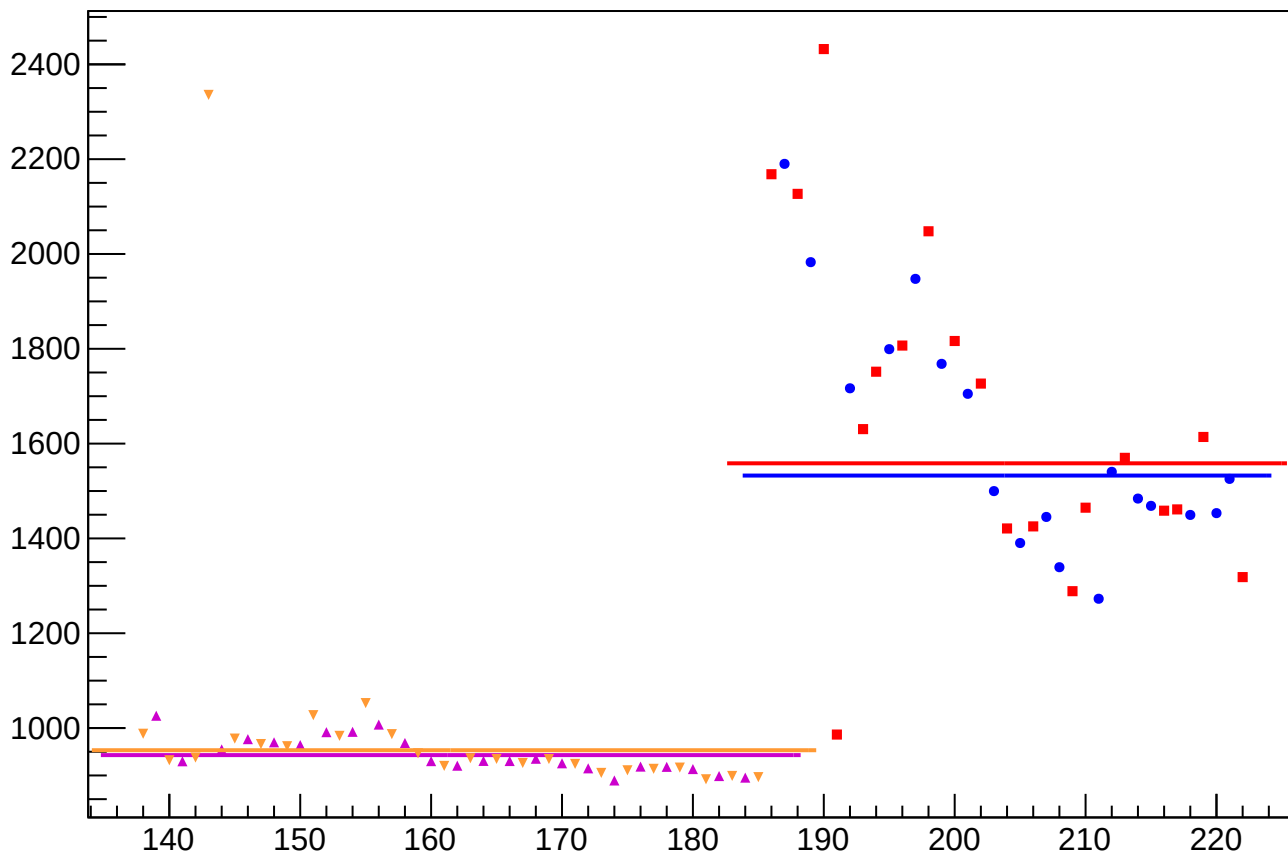
Right: 194.389 ± 306.796 $\chi^2/\text{NDF}: 62.0/36$

In: 190.420 ± 199.998 $\chi^2/\text{NDF}: 55.5/40$

Out: -54.541 ± 198.903 $\chi^2/\text{NDF}: 71.2/43$

All: 67.267 ± 141.031 $\chi^2/\text{NDF}: 127.5/84$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1532.601+/-0.306 χ^2/NDF : 367872.7/17

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

Right Out: 1558.437+/-0.308 χ^2/NDF : 761493.7/18

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

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

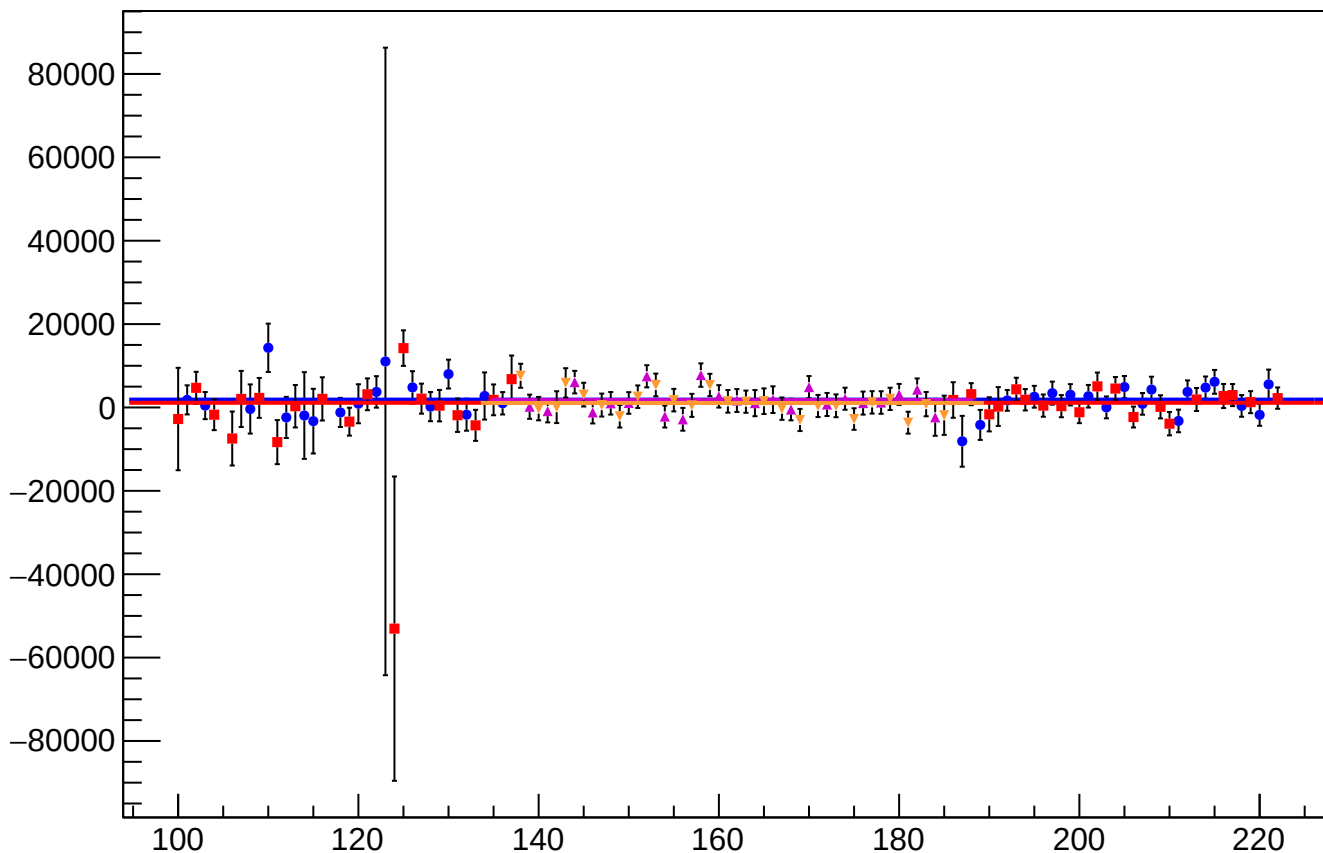
Right: 1545.421+/-0.217 χ^2/NDF : 1132912.1/36

In: 1069.173+/-0.141 χ^2/NDF : 3341653.2/40

Out: 1079.449+/-0.141 χ^2/NDF : 4424286.8/43

All: 1074.339+/-0.100 χ^2/NDF : 7768594.5/84

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1889.042 $\pm$ 555.277 χ^2 /NDF: 31.8/34

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

Right Out: 1122.640 $\pm$ 551.193 χ^2 /NDF: 36.9/37

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

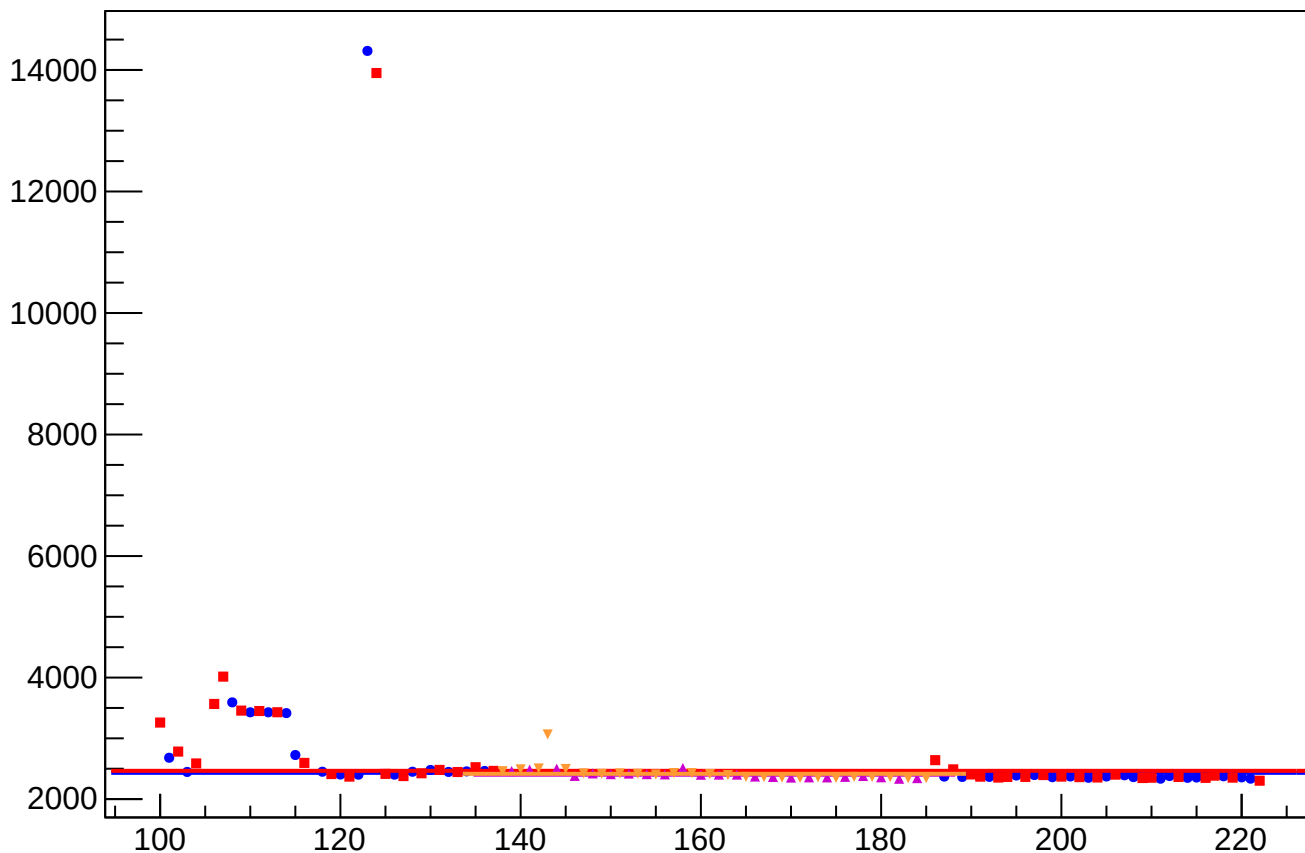
Right: 1503.012 $\pm$ 391.188 χ^2 /NDF: 69.7/72

In: 1835.111 $\pm$ 399.730 χ^2 /NDF: 55.9/57

Out: 1100.859 $\pm$ 394.204 χ^2 /NDF: 60.5/62

All: 1462.874 $\pm$ 280.678 χ^2 /NDF: 118.1/120

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2432.244+/-0.393 χ^2/NDF : 320785.5/34

Left Out: 2416.019+/-0.399 χ^2/NDF : 82636.1/24

Right Out: 2465.453+/-0.390 χ^2/NDF : 668550.4/37

Left In: 2401.422+/-0.407 χ^2/NDF : 13747.6/22

Left: 2408.873+/-0.285 χ^2/NDF : 97039.6/47

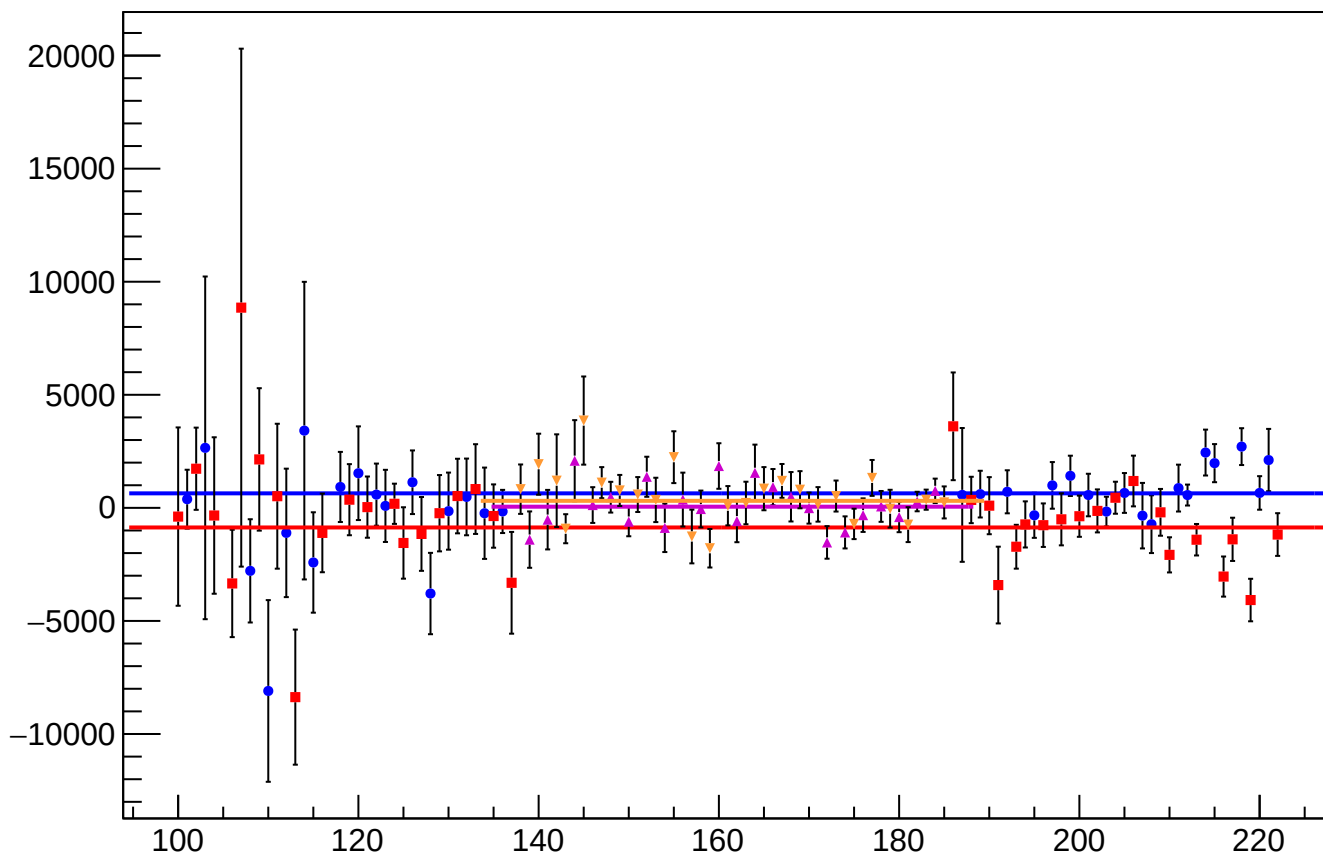
Right: 2448.971+/-0.277 χ^2/NDF : 992939.1/72

In: 2417.395+/-0.283 χ^2/NDF : 337502.0/57

Out: 2441.304+/-0.279 χ^2/NDF : 759045.2/62

All: 2429.516+/-0.198 χ^2/NDF : 1100174.8/12

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 641.739 ± 186.847 $\chi^2/\text{NDF}: 35.5/34$

Left Out: 310.873 ± 160.650 $\chi^2/\text{NDF}: 29.7/24$

Right Out: -866.882 ± 195.054 $\chi^2/\text{NDF}: 54.7/37$

Left In: 51.454 ± 161.744 $\chi^2/\text{NDF}: 23.8/22$

Left: 182.044 ± 113.982 $\chi^2/\text{NDF}: 54.9/47$

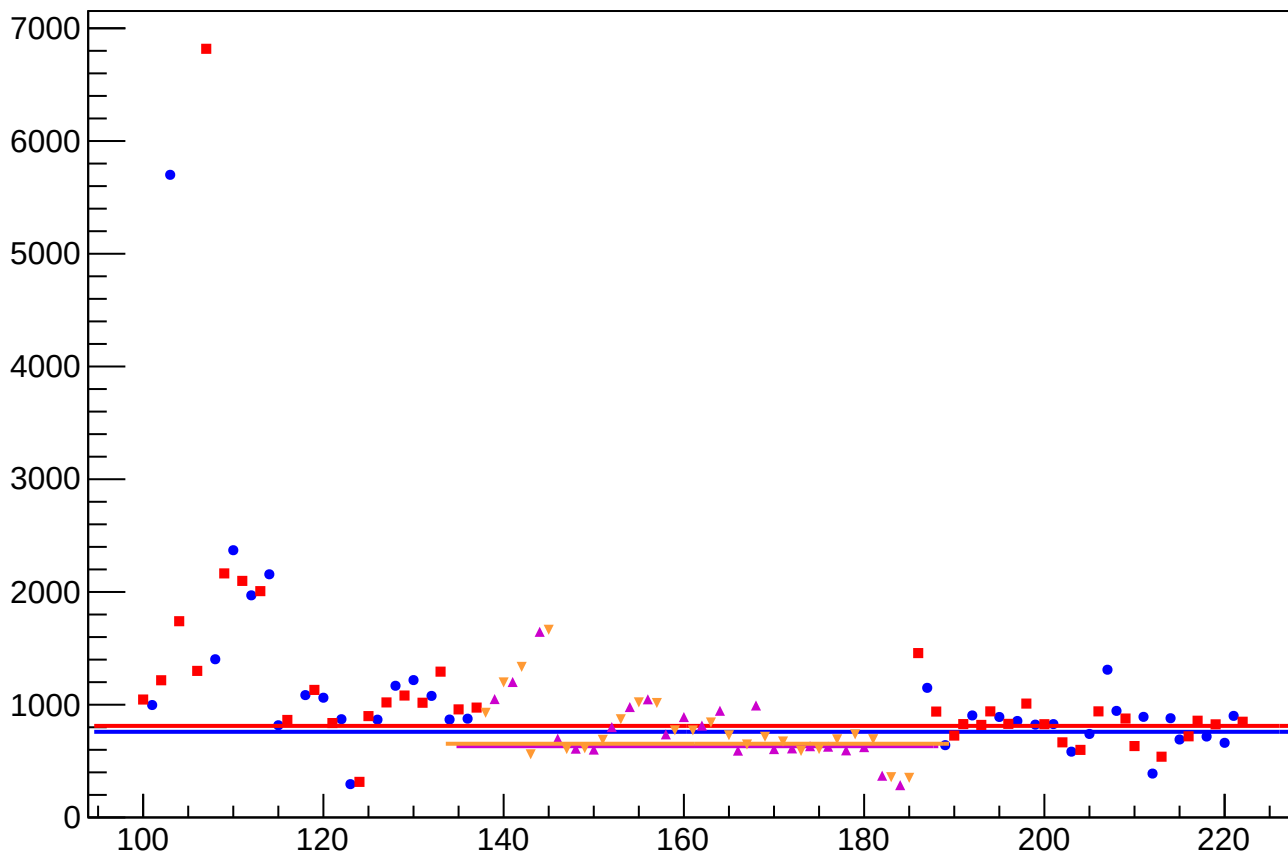
Right: -80.165 ± 134.929 $\chi^2/\text{NDF}: 121.4/72$

In: 304.308 ± 122.290 $\chi^2/\text{NDF}: 65.0/57$

Out: -165.147 ± 124.005 $\chi^2/\text{NDF}: 106.2/62$

All: 72.851 ± 87.072 $\chi^2/\text{NDF}: 178.5/120$

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 759.640+/-0.132 χ^2/NDF : 4603018.8/34

Left Out: 653.803+/-0.114 χ^2/NDF :3254694.4/24

Right Out: 812.178+/-0.138 χ^2/NDF : 3860733.9/37

Left In: 632.053+/-0.114 χ^2/NDF :3942853.4/22

Left: 643.002+/-0.081 χ^2/NDF : 7215752.9/47

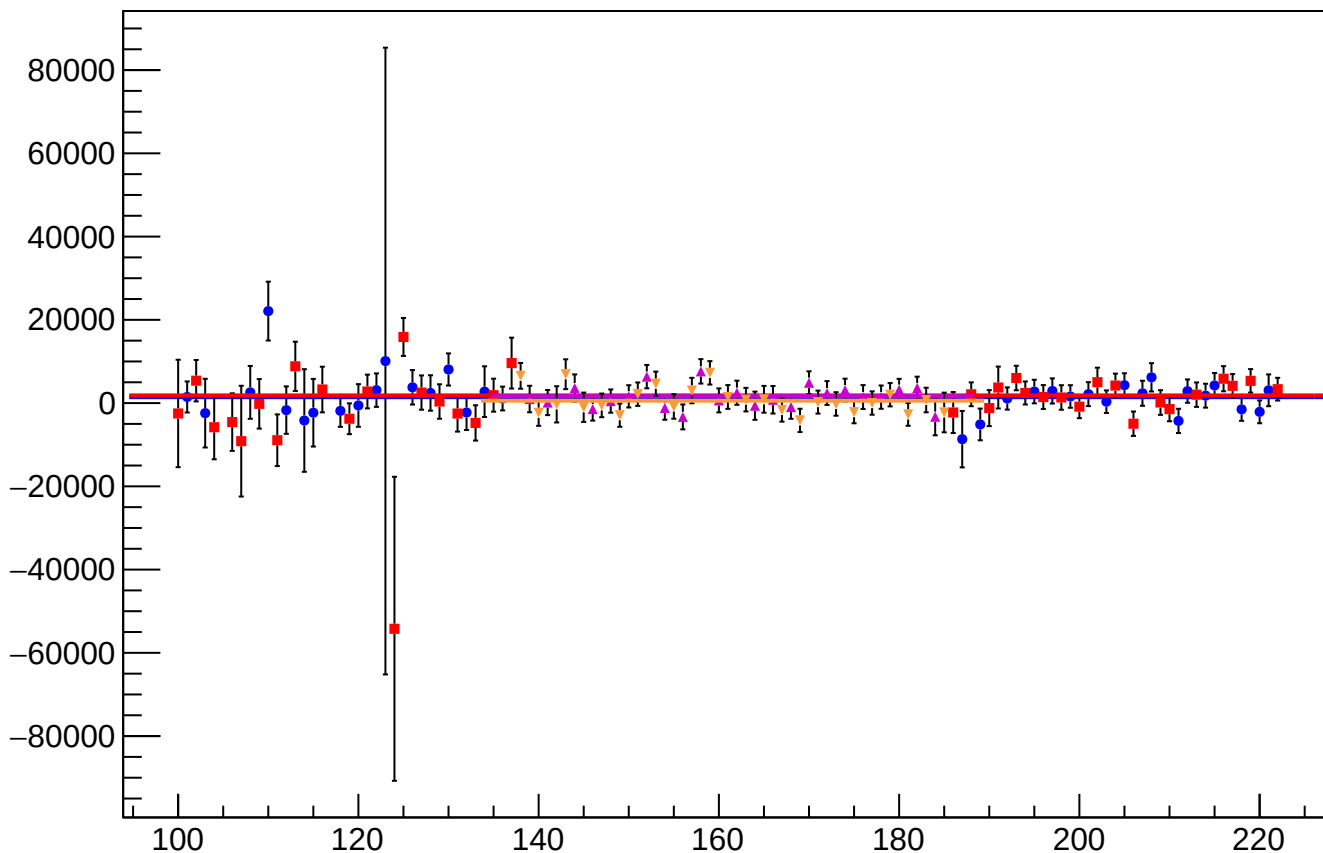
Right: 784.781+/-0.095 χ^2/NDF : 8539419.7/72

In: 686.706+/-0.086 χ^2/NDF :9078955.7/57

Out: 717.814+/-0.088 χ^2/NDF :7901049.8/62

All: 702.043+/-0.062 χ^2/NDF : 17043813.5/12

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1426.116+/-605.524 χ^2/NDF : 31.7/34

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

Right Out: 1844.225+/-604.442 χ^2/NDF : 44.3/37

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

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

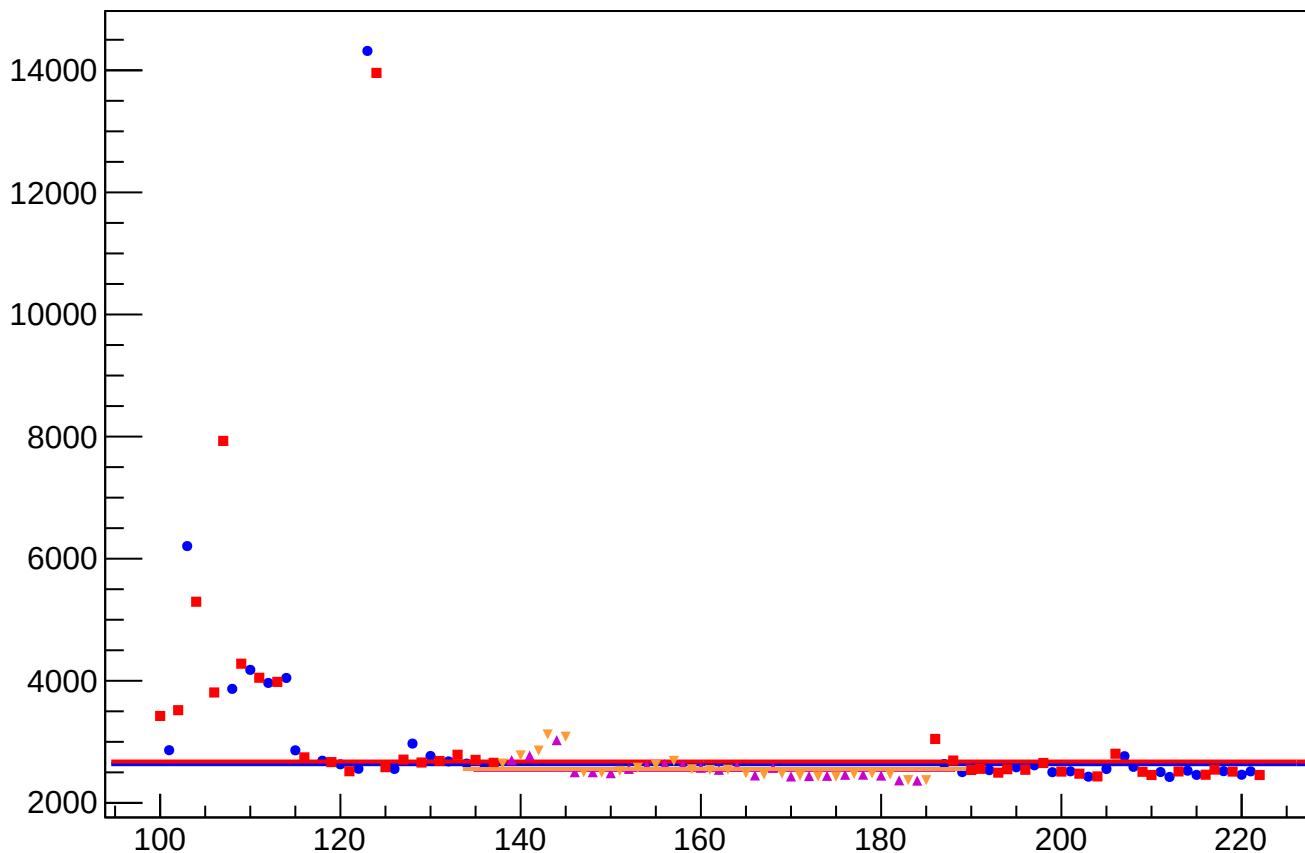
Right: 1635.544+/-427.787 χ^2/NDF : 76.2/72

In: 1551.888+/-429.782 χ^2/NDF : 50.0/57

Out: 1204.910+/-424.812 χ^2/NDF : 71.8/62

All: 1376.381+/-302.129 χ^2/NDF : 122.1/120

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2633.985+/-0.428 χ^2/NDF : 824443.0/34

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

Right Out: 2677.541+/-0.427 χ^2/NDF : 1317799.3/37

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

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

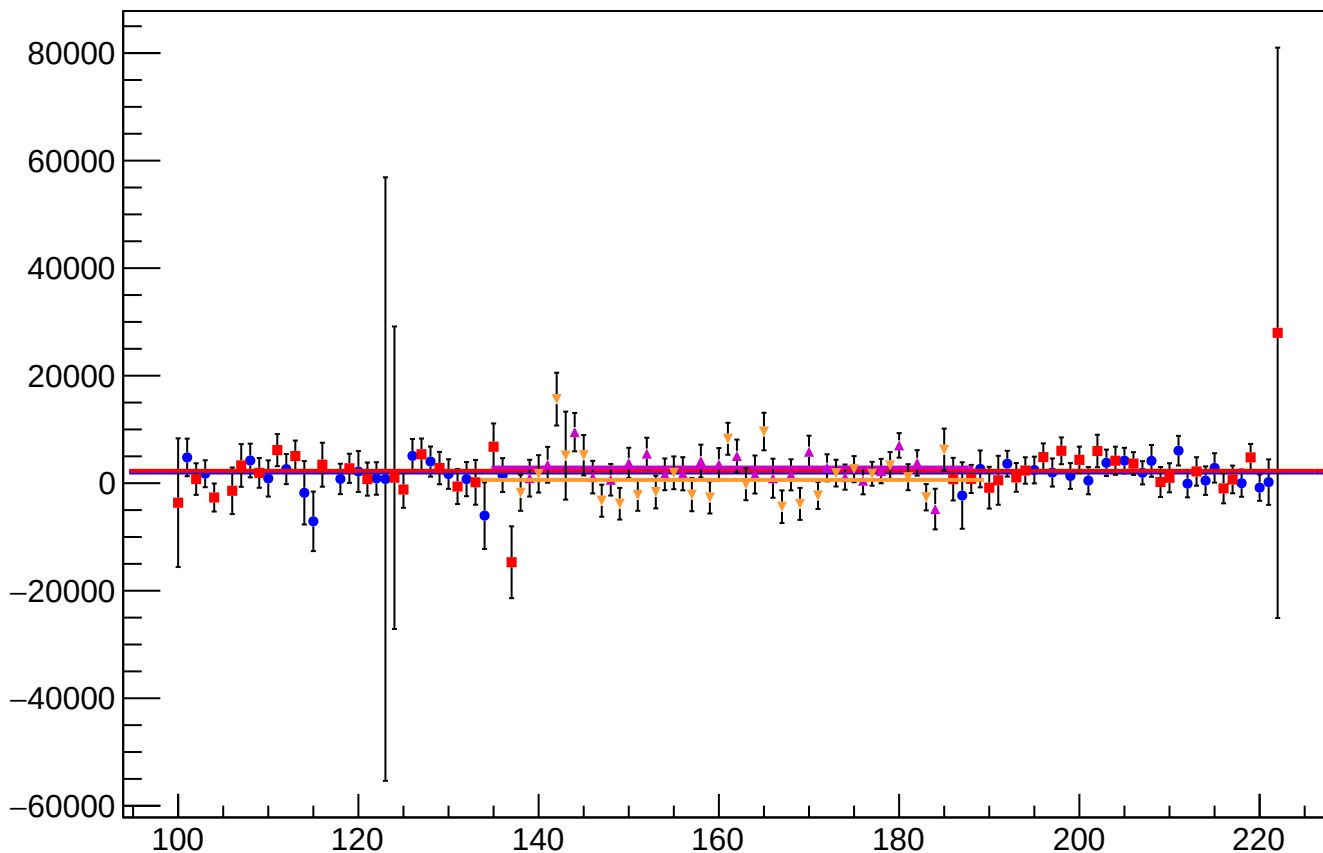
Right: 2655.802+/-0.302 χ^2/NDF : 2147425.6/72

In: 2587.837+/-0.304 χ^2/NDF :942609.0/57

Out: 2615.671+/-0.300 χ^2/NDF :1513952.1/62

All: 2601.916+/-0.214 χ^2/NDF : 2460803.9/12

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1995.479+/-497.440 χ^2/NDF : 16.8/34

Left Out: 614.867+/-591.148 χ^2/NDF : 45.2/24

Right Out: 2301.969+/-498.169 χ^2/NDF : 30.3/37

Left In: 2909.108+/-599.673 χ^2/NDF : 17.4/22

Left: 1745.562+/-420.986 χ^2/NDF : 70.0/47

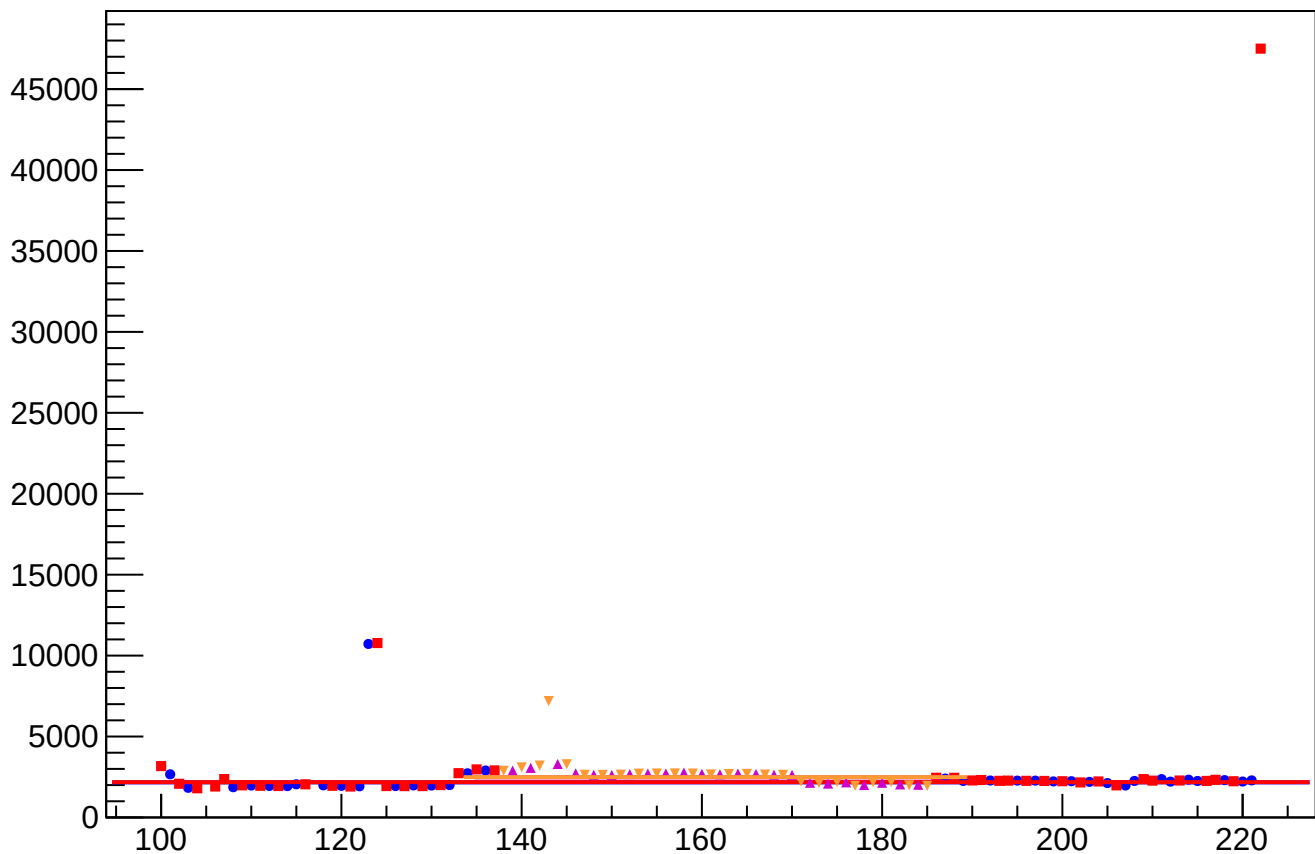
Right: 2148.499+/-352.001 χ^2/NDF : 47.3/72

In: 2367.890+/-382.861 χ^2/NDF : 35.6/57

Out: 1601.378+/-380.941 χ^2/NDF : 80.2/62

All: 1982.707+/-270.042 χ^2/NDF : 117.8/120

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2167.602 $\pm$ 0.352 χ^2 /NDF: 420155.0/34

Left Out: 2489.577 $\pm$ 0.418 χ^2 /NDF:1364203.3/24

Right Out: 2180.634 $\pm$ 0.352 χ^2 /NDF: 2054276.6/37

Left In: 2479.348 $\pm$ 0.424 χ^2 /NDF:668398.2/22

Left: 2484.536 $\pm$ 0.298 χ^2 /NDF: 2032896.6/47

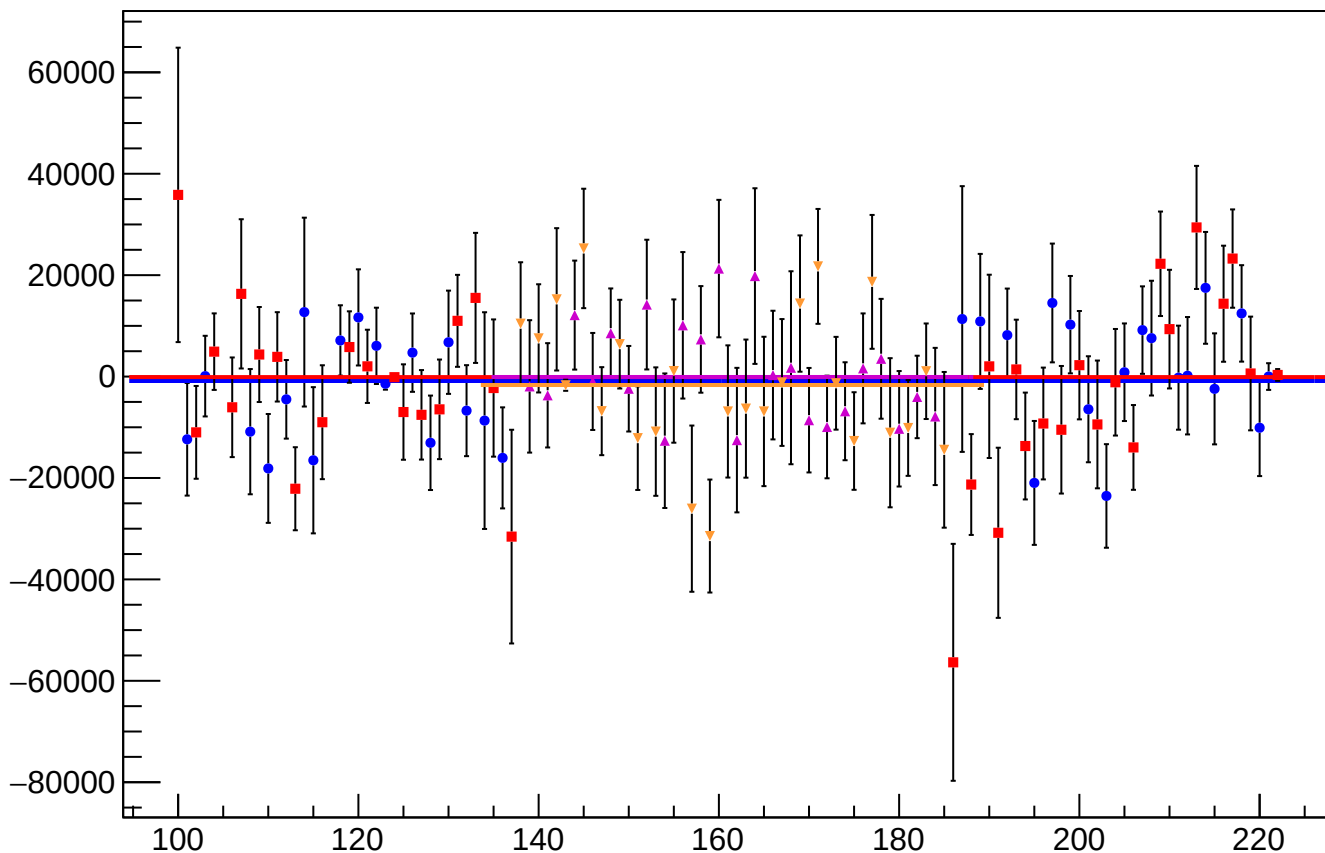
Right: 2174.108 $\pm$ 0.249 χ^2 /NDF: 2475116.9/72

In: 2294.675 $\pm$ 0.271 χ^2 /NDF:1408742.4/57

Out: 2308.925 $\pm$ 0.269 χ^2 /NDF:3737896.1/62

All: 2301.836 $\pm$ 0.191 χ^2 /NDF: 5148030.8/12

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -871.625 ± 915.386 $\chi^2/\text{NDF}: 36.8/34$

Left Out: -1665.417 ± 993.060 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -102.310 ± 582.432 $\chi^2/\text{NDF}: 59.9/37$

Left In: -80.274 ± 2331.531 $\chi^2/\text{NDF}: 13.8/22$

Left: -1422.008 ± 913.639 $\chi^2/\text{NDF}: 46.6/47$

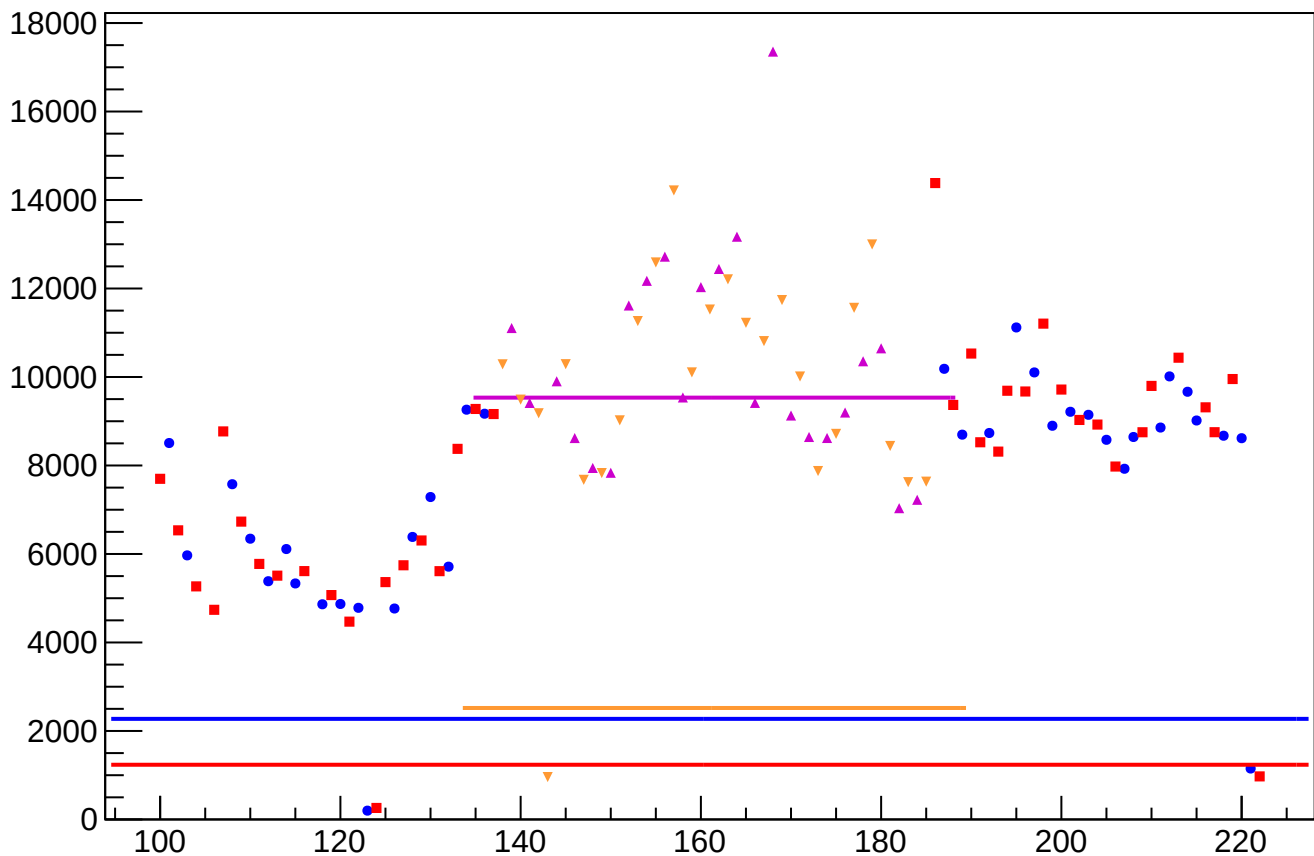
Right: -324.007 ± 491.397 $\chi^2/\text{NDF}: 97.2/72$

In: -765.934 ± 852.068 $\chi^2/\text{NDF}: 50.7/57$

Out: -502.378 ± 502.398 $\chi^2/\text{NDF}: 94.2/62$

All: -570.367 ± 432.772 $\chi^2/\text{NDF}: 144.9/120$

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2273.461+/-0.647

χ^2/NDF : 25841224.0/34

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 1236.400+/-0.412

χ^2/NDF : 31089361.3/37

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

Left: 3596.432+/-0.646 χ^2/NDF : 40280305.8/47

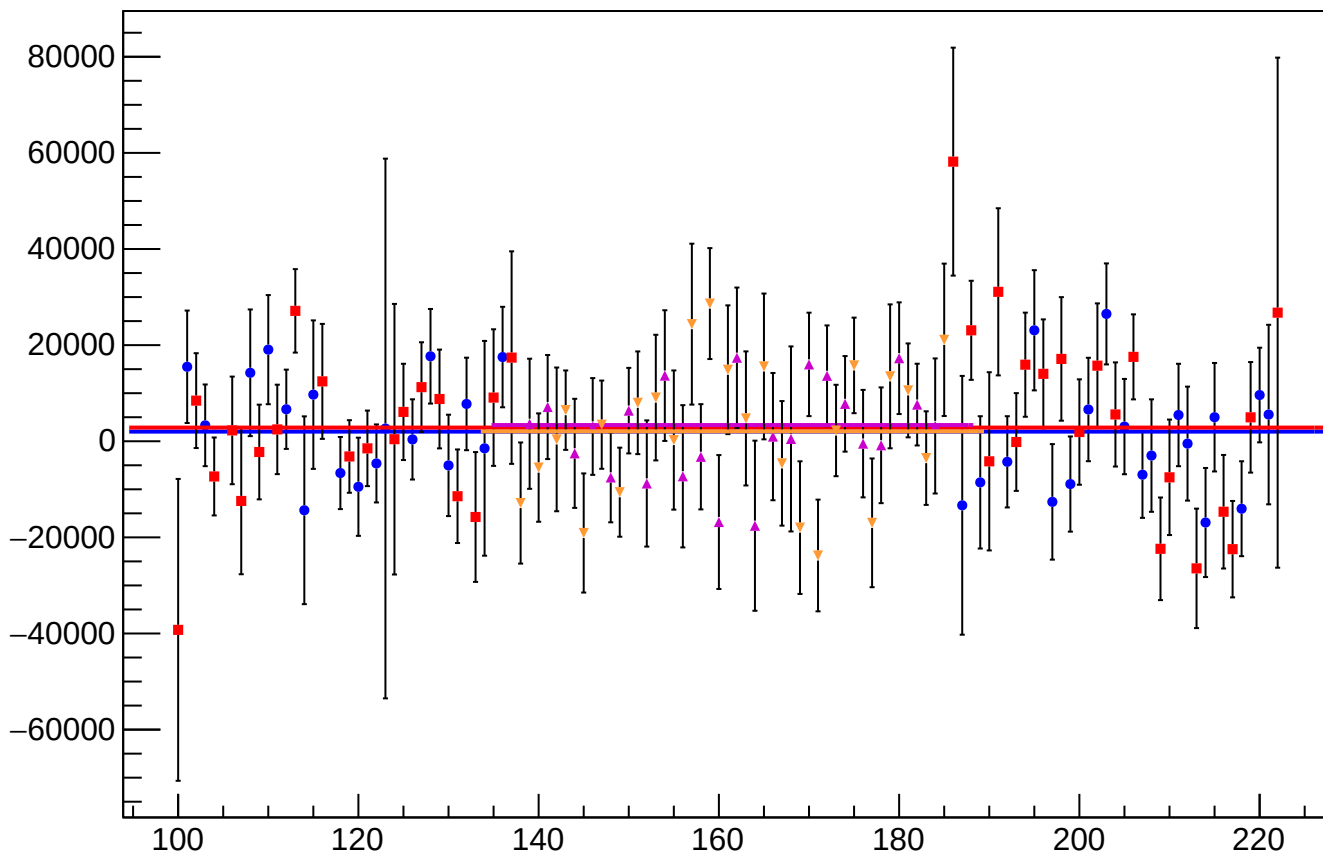
Right: 1535.255+/-0.347 χ^2/NDF : 58757856.6/72

In: 3243.097+/-0.603 χ^2/NDF : 43960334.1/57

Out: 1564.766+/-0.355 χ^2/NDF : 57215240.2/62

All: 1997.725+/-0.306 χ^2/NDF : 106933395.5

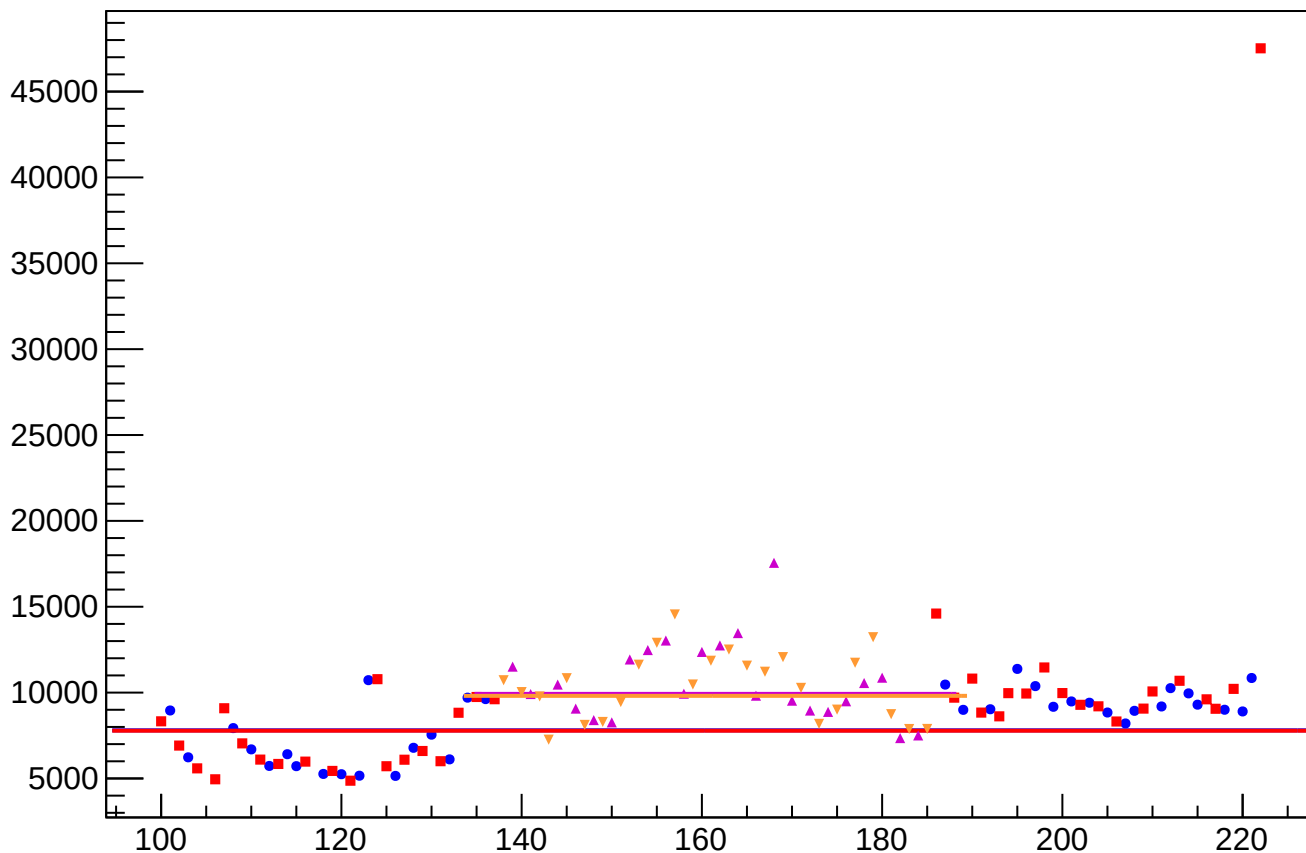
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2006.708+/-1830.551 χ^2/NDF : 34.6/34
 Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24
 Right Out: 2846.829+/-1819.786 χ^2/NDF : 60.6/37
 Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 2429.246+/-1290.572 χ^2/NDF : 95.3/72
 In: 2502.722+/-1460.636 χ^2/NDF : 47.9/57
 Out: 2547.737+/-1435.007 χ^2/NDF : 91.4/62
 All: 2525.628+/-1023.644 χ^2/NDF : 139.3/120

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7803.842 $\pm$ 1.294

χ^2 /NDF: 2049588.2/34

Left Out: 9811.053 $\pm$ 1.650

χ^2 /NDF: 1213831.0/24

Right Out: 7781.081 $\pm$ 1.287

χ^2 /NDF: 3615219.4/37

Left In: 9925.337 $\pm$ 1.713

χ^2 /NDF: 1211554.7/22

Left: 9866.039 $\pm$ 1.189 χ^2 /NDF: 2427693.8/47

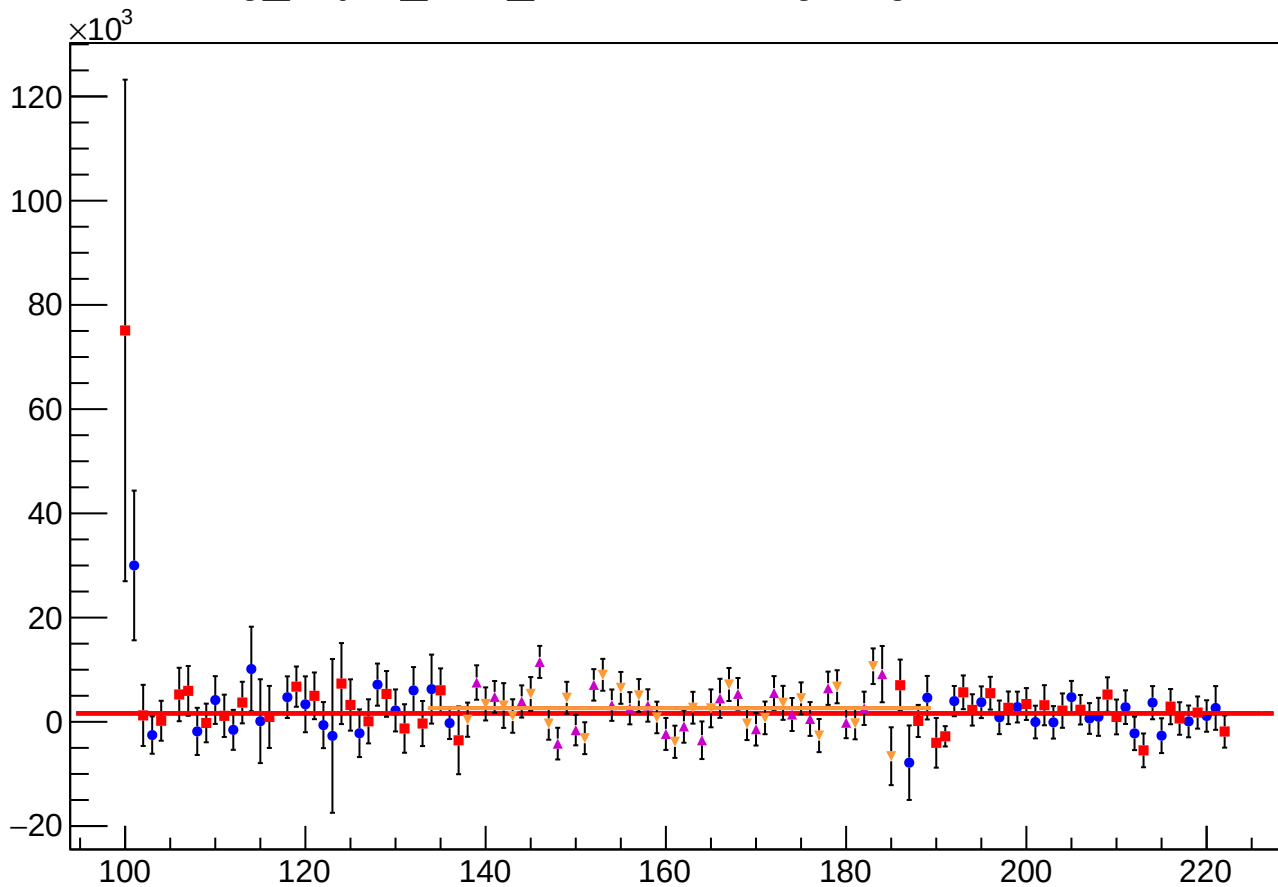
Right: 7792.394 $\pm$ 0.913 χ^2 /NDF: 5664963.1/72

In: 8574.602 $\pm$ 1.033 χ^2 /NDF: 4237139.8/57

Out: 8548.713 $\pm$ 1.015 χ^2 /NDF: 5770252.4/62

All: 8561.428 $\pm$ 0.724 χ^2 /NDF: 10007712.0/121

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1568.435 $\pm$ 639.063 χ^2/NDF : 22.8/34

Left Out: 2635.833 $\pm$ 646.121 χ^2/NDF : 35.1/24

Right Out: 1688.033 $\pm$ 597.959 χ^2/NDF : 29.8/37

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

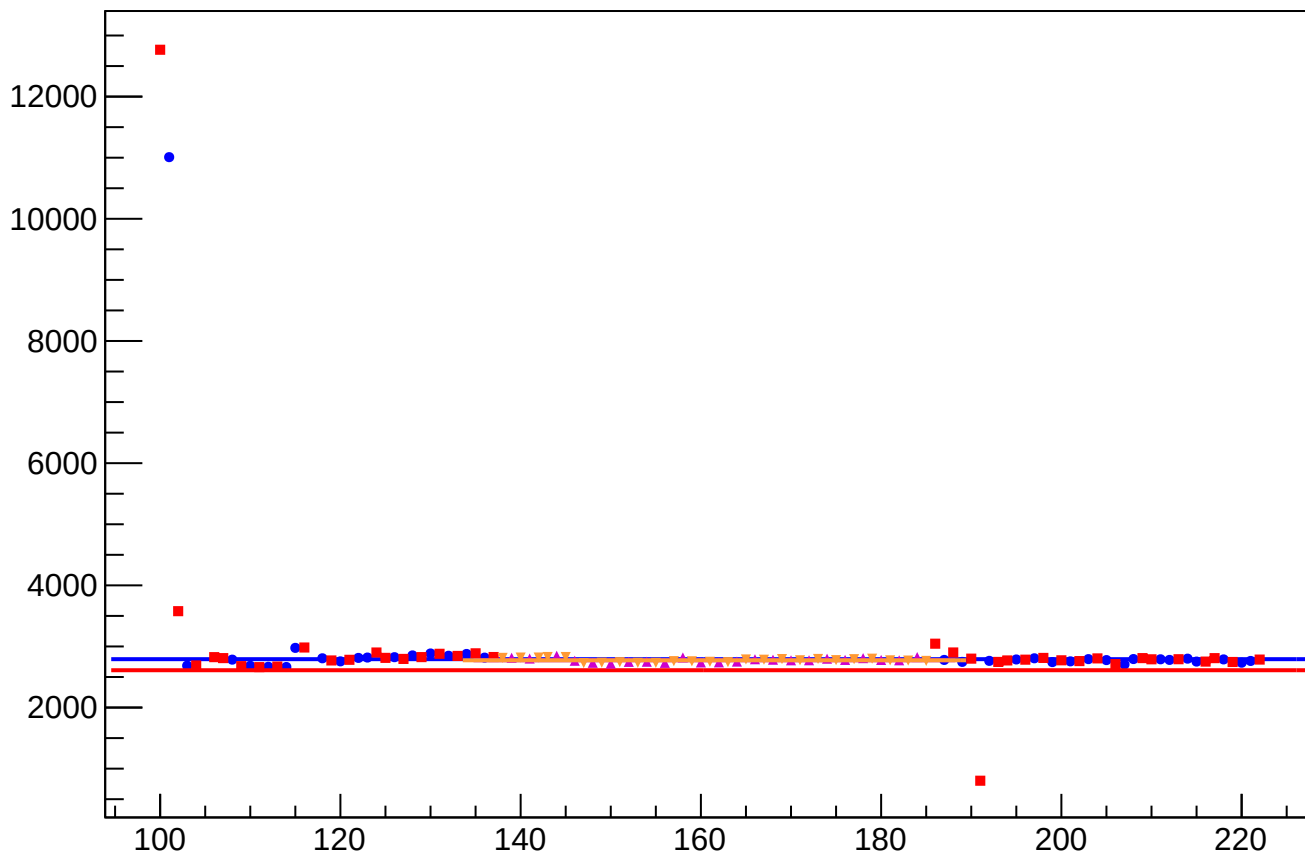
Right: 1632.204 $\pm$ 436.630 χ^2/NDF : 52.6/72

In: 2082.591 $\pm$ 460.639 χ^2/NDF : 59.3/57

Out: 2125.296 $\pm$ 438.861 χ^2/NDF : 66.0/62

All: 2104.977 $\pm$ 317.742 χ^2/NDF : 125.4/120

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2791.887+/-0.452 χ^2/NDF : 667922.0/34

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2610.847+/-0.423 χ^2/NDF : 2047690.9/37

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

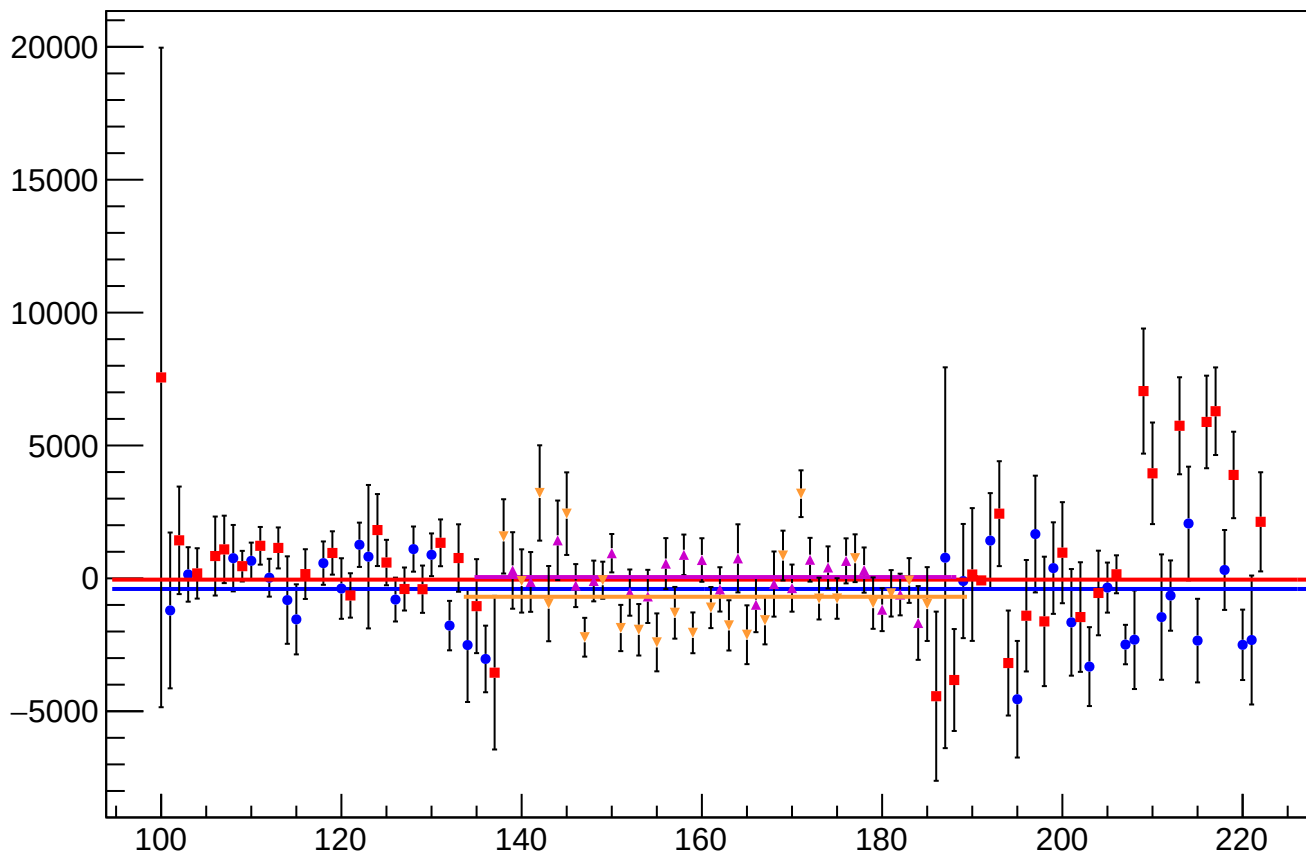
Right: 2695.358+/-0.309 χ^2/NDF : 2801193.0/72

In: 2783.310+/-0.326 χ^2/NDF : 673657.1/57

Out: 2685.985+/-0.310 χ^2/NDF : 2120757.6/62

All: 2732.293+/-0.225 χ^2/NDF : 2841216.0/12

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -399.294 $\pm$ 200.781 χ^2/NDF : 49.3/34

Left Out: -692.808 $\pm$ 187.297 χ^2/NDF : 56.0/24

Right Out: -47.585 $\pm$ 37.766 χ^2/NDF : 87.4/37

Left In: 49.244 $\pm$ 189.190 χ^2/NDF : 13.6/22

Left: -325.512 $\pm$ 133.103 χ^2/NDF : 77.4/47

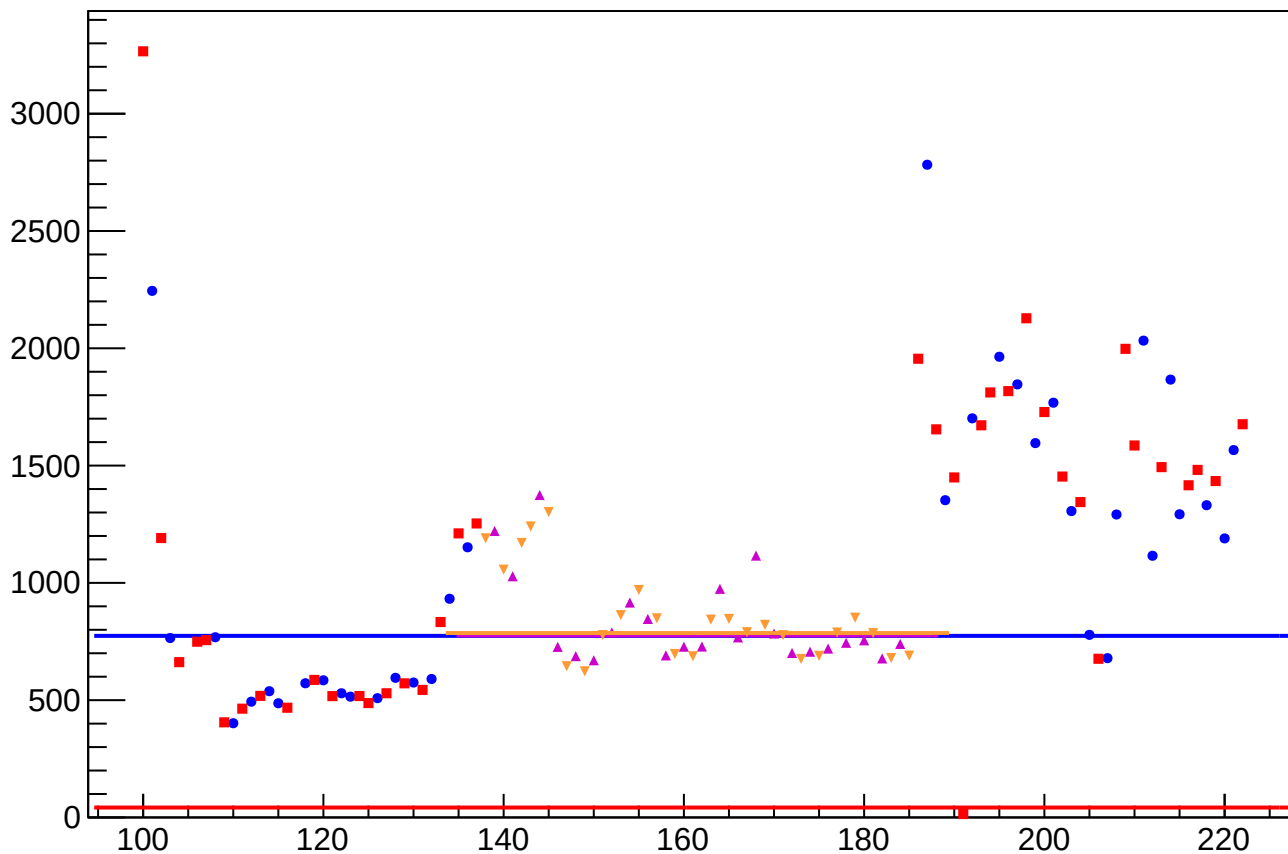
Right: -59.603 $\pm$ 37.115 χ^2/NDF : 139.8/72

In: -161.706 $\pm$ 137.693 χ^2/NDF : 65.6/57

Out: -72.792 $\pm$ 37.021 χ^2/NDF : 154.8/62

All: -78.787 $\pm$ 35.751 χ^2/NDF : 220.8/120

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 774.119+/-0.142

χ^2/NDF : 8020257.6/34

Left Out: 786.173+/-0.132

χ^2/NDF : 1249536.1/24

Right Out: 42.296+/-0.027

χ^2/NDF : 36618031.1/37

Left In: 775.930+/-0.134

χ^2/NDF : 1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 67.303+/-0.026

χ^2/NDF : 70300758.7/72

In: 775.078+/-0.097

χ^2/NDF : 9077110.4/57

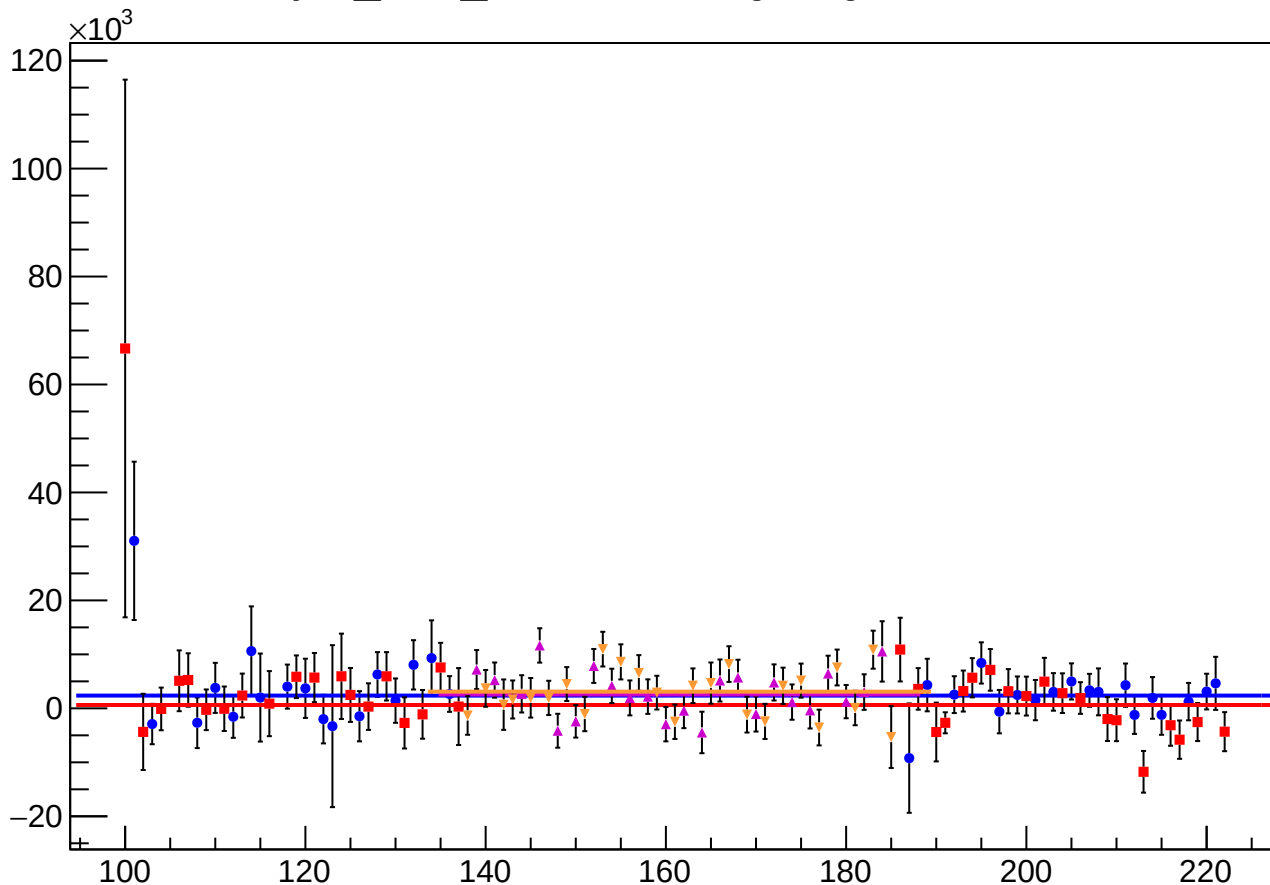
Out: 71.358+/-0.026

χ^2/NDF : 68182844.9/62

All: 118.799+/-0.025

χ^2/NDF : 125978734.5/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2364.583+/-708.725 χ^2/NDF : 22.5/34

Left Out: 3094.826+/-678.510 χ^2/NDF : 38.7/24

Right Out: 619.025+/-660.761 χ^2/NDF : 44.8/37

Left In: 2573.184+/-695.795 χ^2/NDF : 35.7/22

Left: 2840.565+/-485.775 χ^2/NDF : 74.6/47

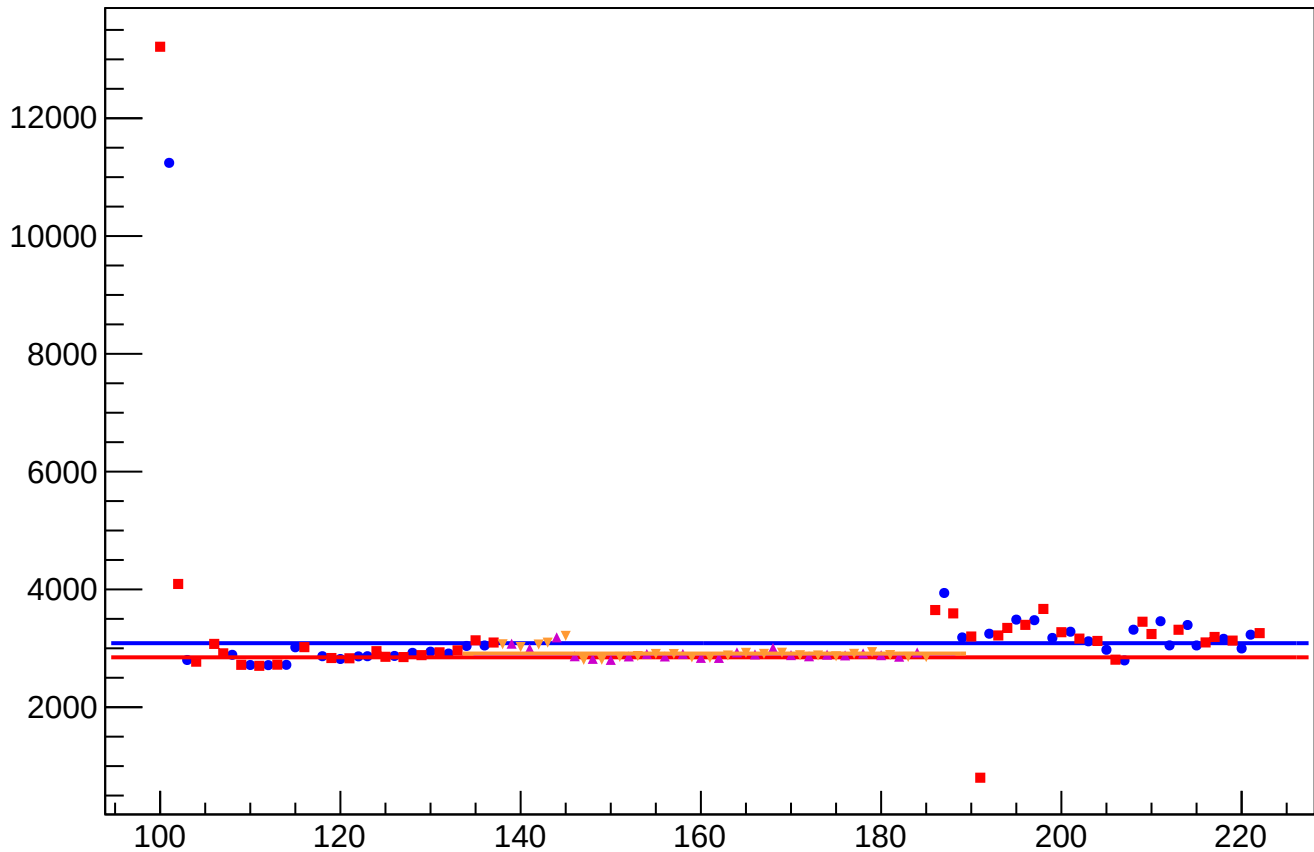
Right: 1430.743+/-483.296 χ^2/NDF : 70.5/72

In: 2470.804+/-496.510 χ^2/NDF : 58.2/57

Out: 1824.120+/-473.379 χ^2/NDF : 90.3/62

All: 2132.048+/-342.615 χ^2/NDF : 149.4/120

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3087.042+/-0.501 χ^2/NDF : 826176.1/34

Left Out: 2911.226+/-0.480 χ^2/NDF :36644.3/24

Right Out: 2846.972+/-0.467 χ^2/NDF : 2884961.0/37

Left In: 2903.411+/-0.492 χ^2/NDF :28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

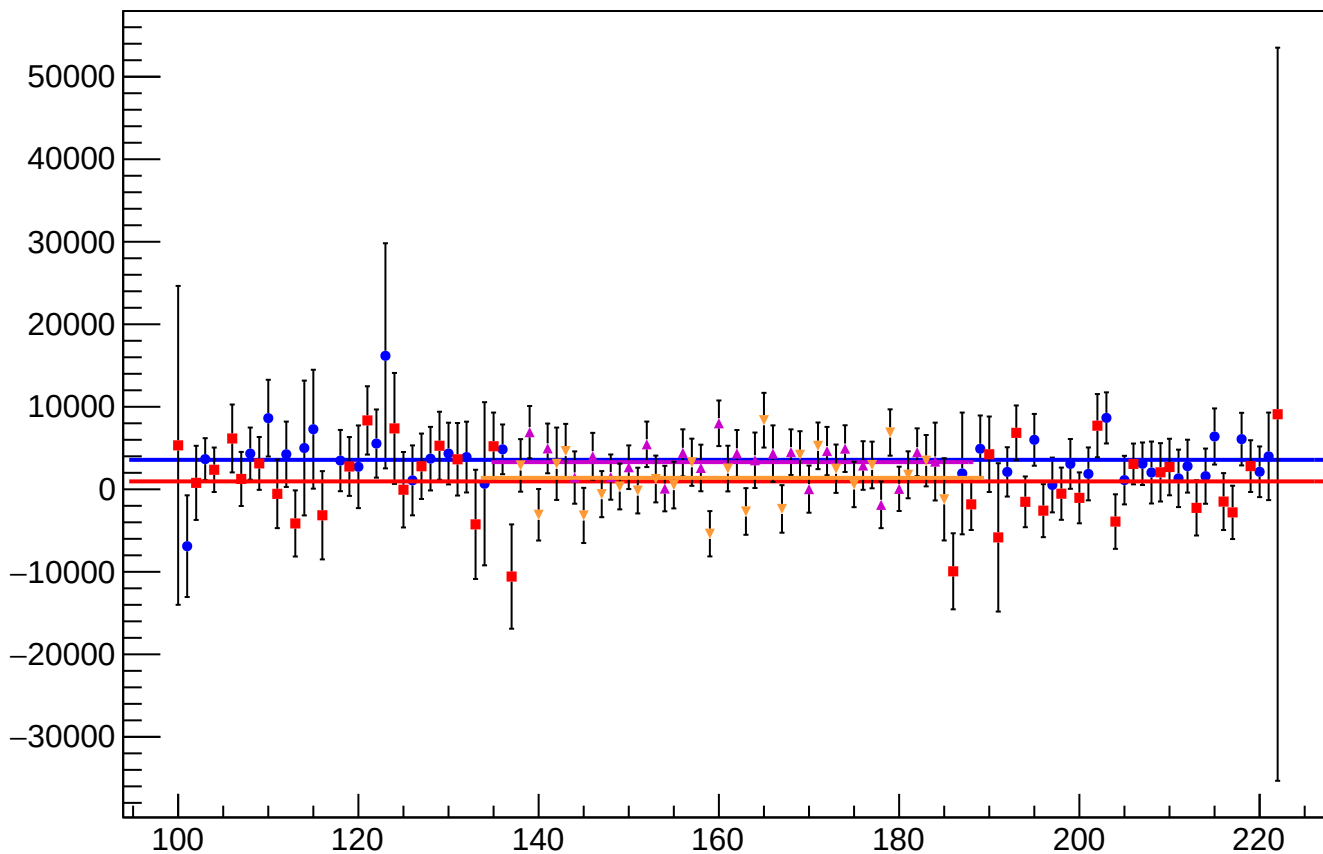
Right: 2958.610+/-0.342 χ^2/NDF : 3833905.9/72

In: 2993.536+/-0.351 χ^2/NDF :923384.2/57

Out: 2878.248+/-0.335 χ^2/NDF :2930810.6/62

All: 2933.144+/-0.242 χ^2/NDF : 3910680.7/12

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3572.558 $\pm$ 620.174 χ^2 /NDF: 14.3/34

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF:29.2/24

Right Out: 959.291 $\pm$ 613.983 χ^2 /NDF: 38.5/37

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

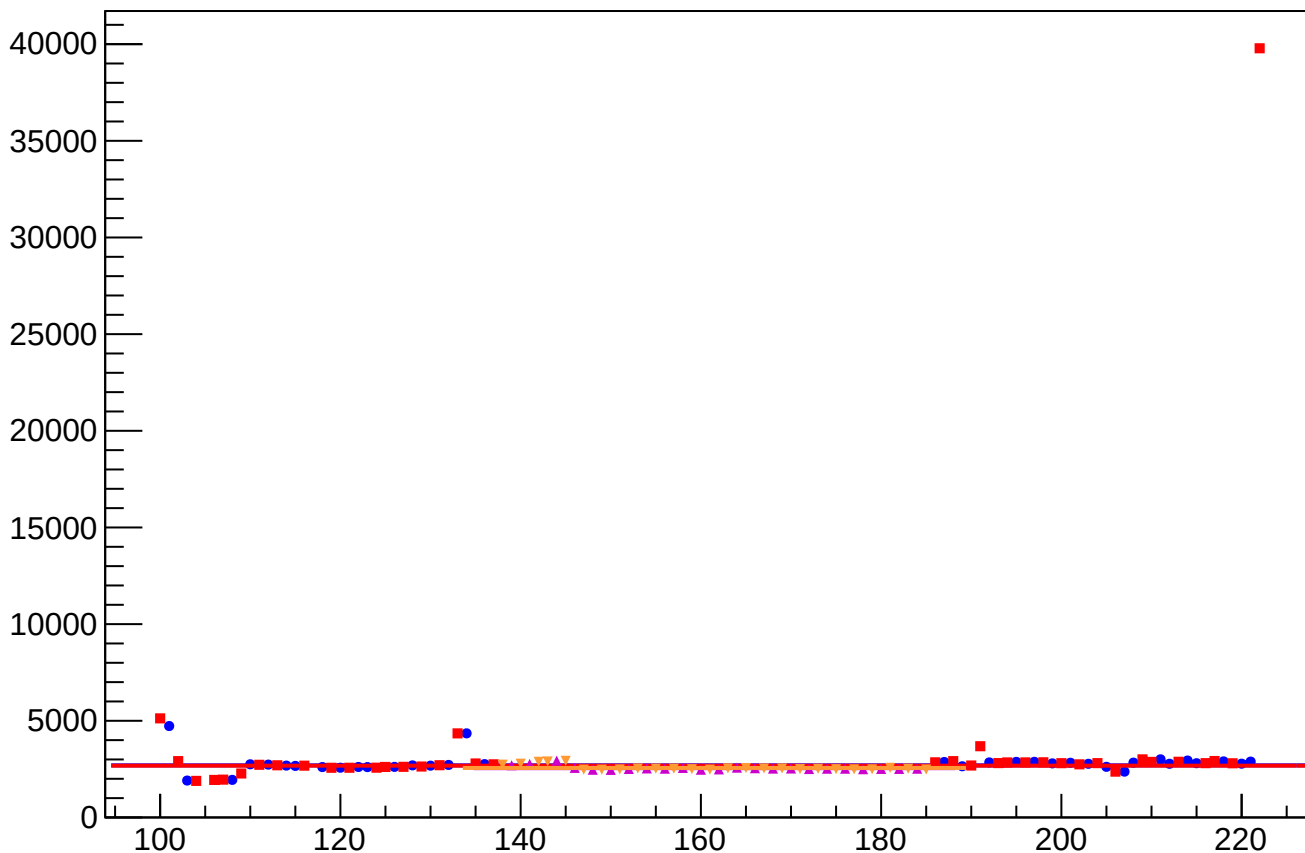
Right: 2252.816 $\pm$ 436.324 χ^2 /NDF: 61.8/72

In: 3431.668 $\pm$ 434.884 χ^2 /NDF:29.3/57

Out: 1181.000 $\pm$ 427.843 χ^2 /NDF:67.9/62

All: 2287.965 $\pm$ 304.990 χ^2 /NDF: 110.8/120

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2695.870+/-0.439 χ^2/NDF : 689432.4/34

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2678.596+/-0.434 χ^2/NDF : 2093419.7/37

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

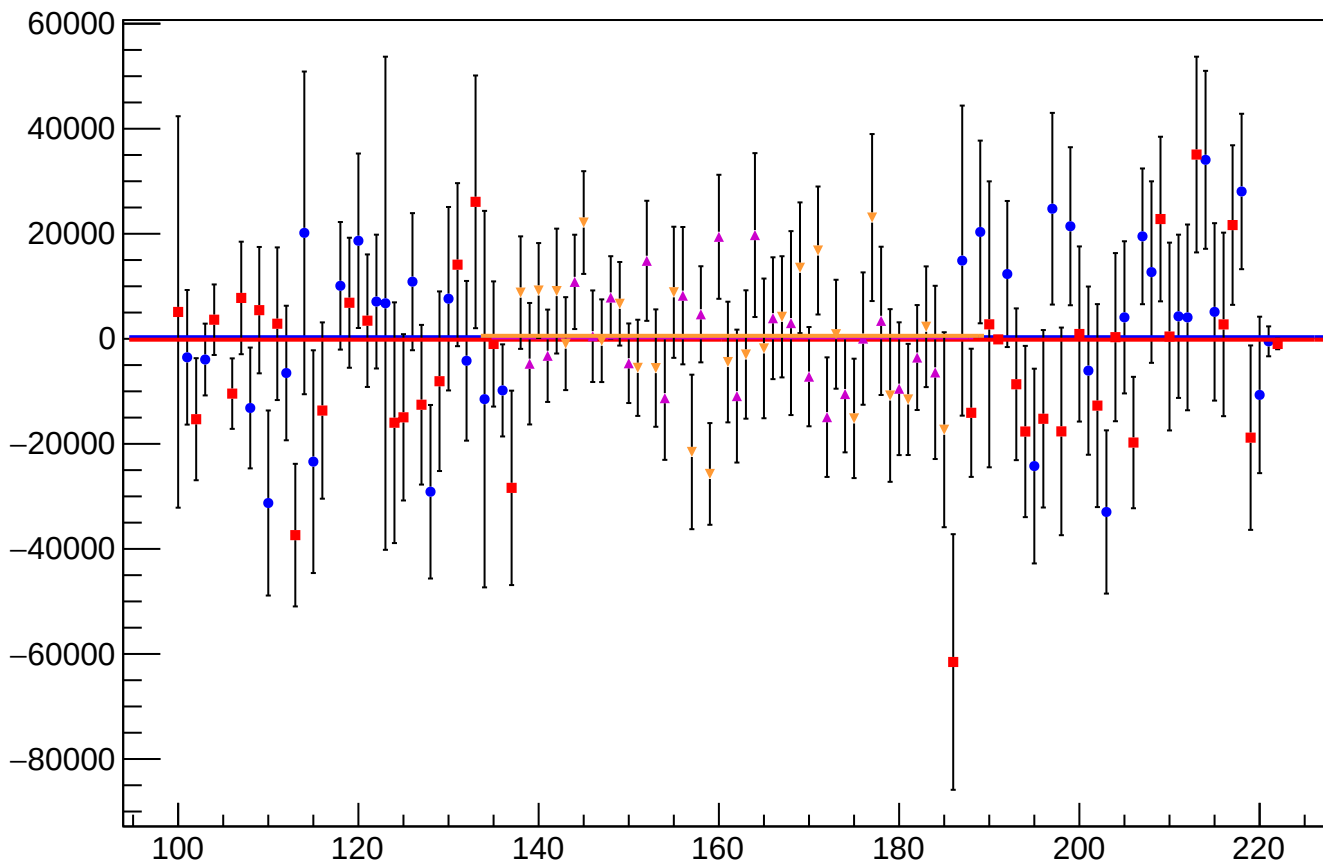
Right: 2687.147+/-0.309 χ^2/NDF : 2783635.7/72

In: 2621.153+/-0.308 χ^2/NDF : 801812.3/57

Out: 2617.861+/-0.303 χ^2/NDF : 2218234.9/62

All: 2619.480+/-0.216 χ^2/NDF : 3020105.4/12

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 308.505 $\pm$ 1875.554 χ^2 /NDF: 38.4/34

Left Out: 572.477 $\pm$ 2184.376 χ^2 /NDF:28.2/24

Right Out: -166.992 $\pm$ 191.328 χ^2 /NDF: 43.7/37

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

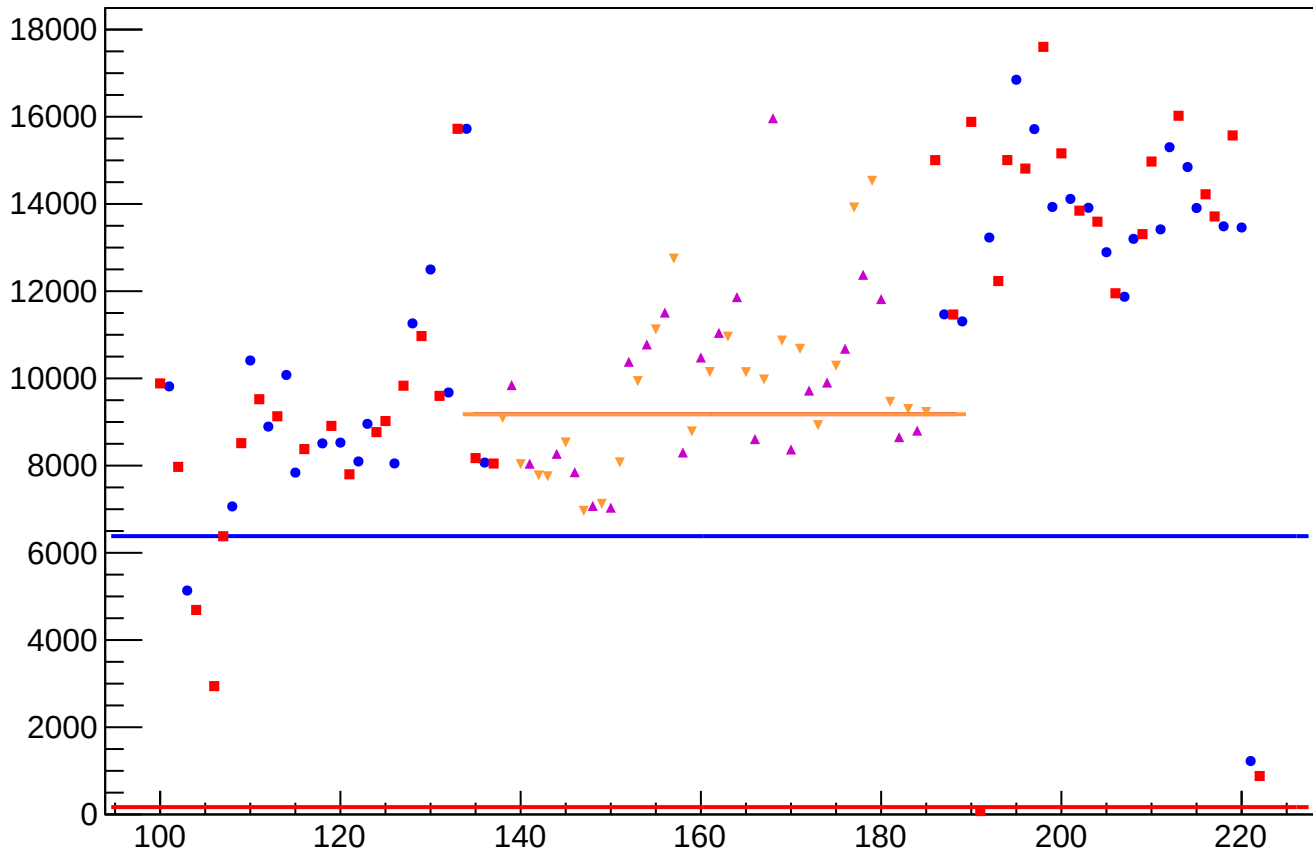
Right: -162.095 $\pm$ 190.340 χ^2 /NDF: 82.1/72

In: 294.765 $\pm$ 1438.780 χ^2 /NDF:54.1/57

Out: -161.362 $\pm$ 190.598 χ^2 /NDF:72.0/62

All: -153.495 $\pm$ 188.948 χ^2 /NDF: 126.2/120

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 6382.466 $\pm$ 1.326

χ^2 /NDF: 14991344.6/34

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 232.528 $\pm$ 0.135

χ^2 /NDF: 75022384.1/72

Right Out: 168.530 $\pm$ 0.135

χ^2 /NDF: 38303597.0/37

In: 7534.231 $\pm$ 1.017

χ^2 /NDF: 18060570.1/57

Out: 237.121 $\pm$ 0.135

χ^2 /NDF: 73241503.6/62

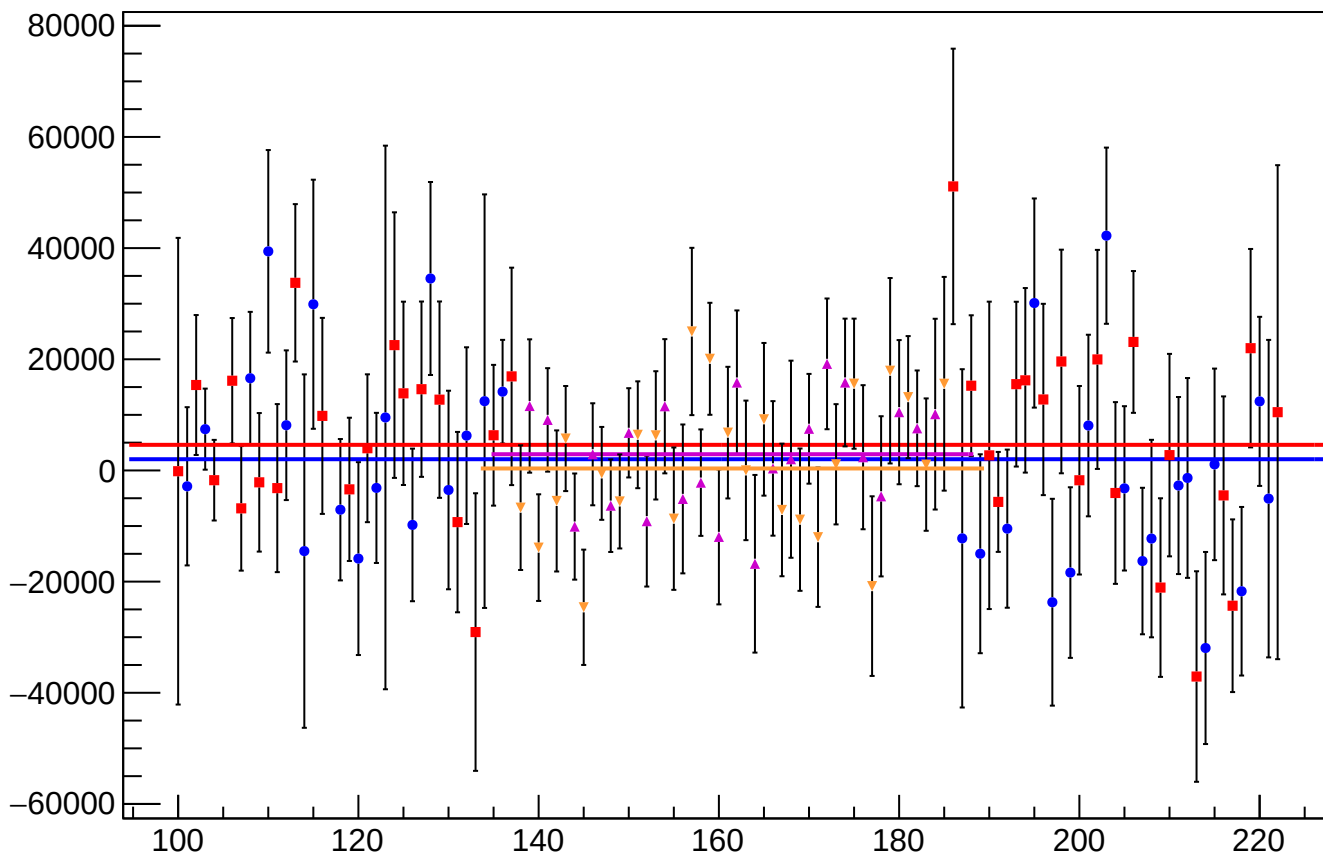
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 362.968 $\pm$ 0.134

χ^2 /NDF: 141859821.8/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2019.958 $\pm$ 2585.473 χ^2 /NDF: 40.4/34

Left Out: 355.717 $\pm$ 2281.682 χ^2 /NDF: 26.2/24

Right Out: 4608.030 $\pm$ 2415.266 χ^2 /NDF: 35.9/37

Left In: 2918.356 $\pm$ 2338.461 χ^2 /NDF: 14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2 /NDF: 41.8/47

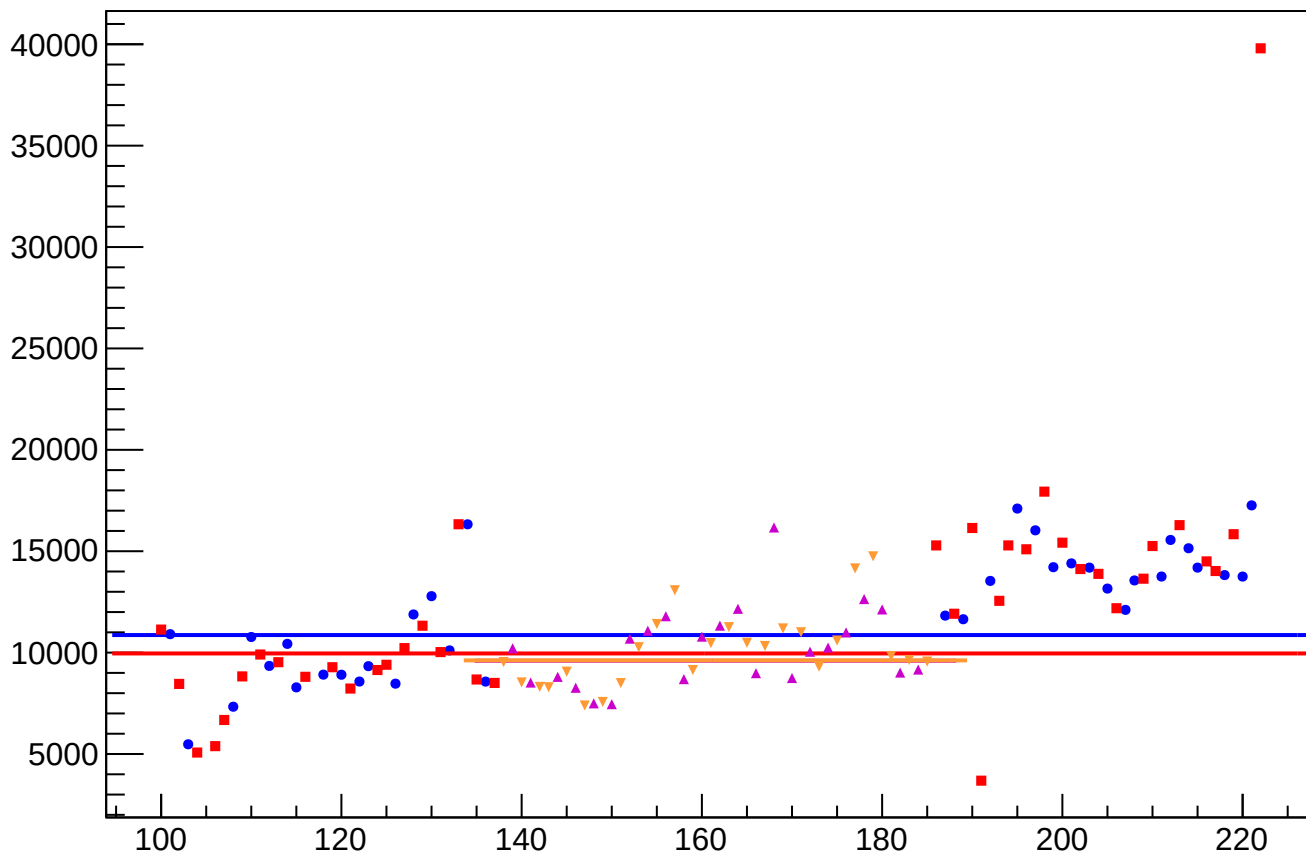
Right: 3401.981 $\pm$ 1764.958 χ^2 /NDF: 76.8/72

In: 2514.112 $\pm$ 1734.312 χ^2 /NDF: 55.4/57

Out: 2361.033 $\pm$ 1658.608 χ^2 /NDF: 63.8/62

All: 2434.159 $\pm$ 1198.683 χ^2 /NDF: 119.2/120

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10865.837+/-1.828 χ^2/NDF : 3196829.9/34

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 9959.012+/-1.708 χ^2/NDF : 6024530.4/37

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

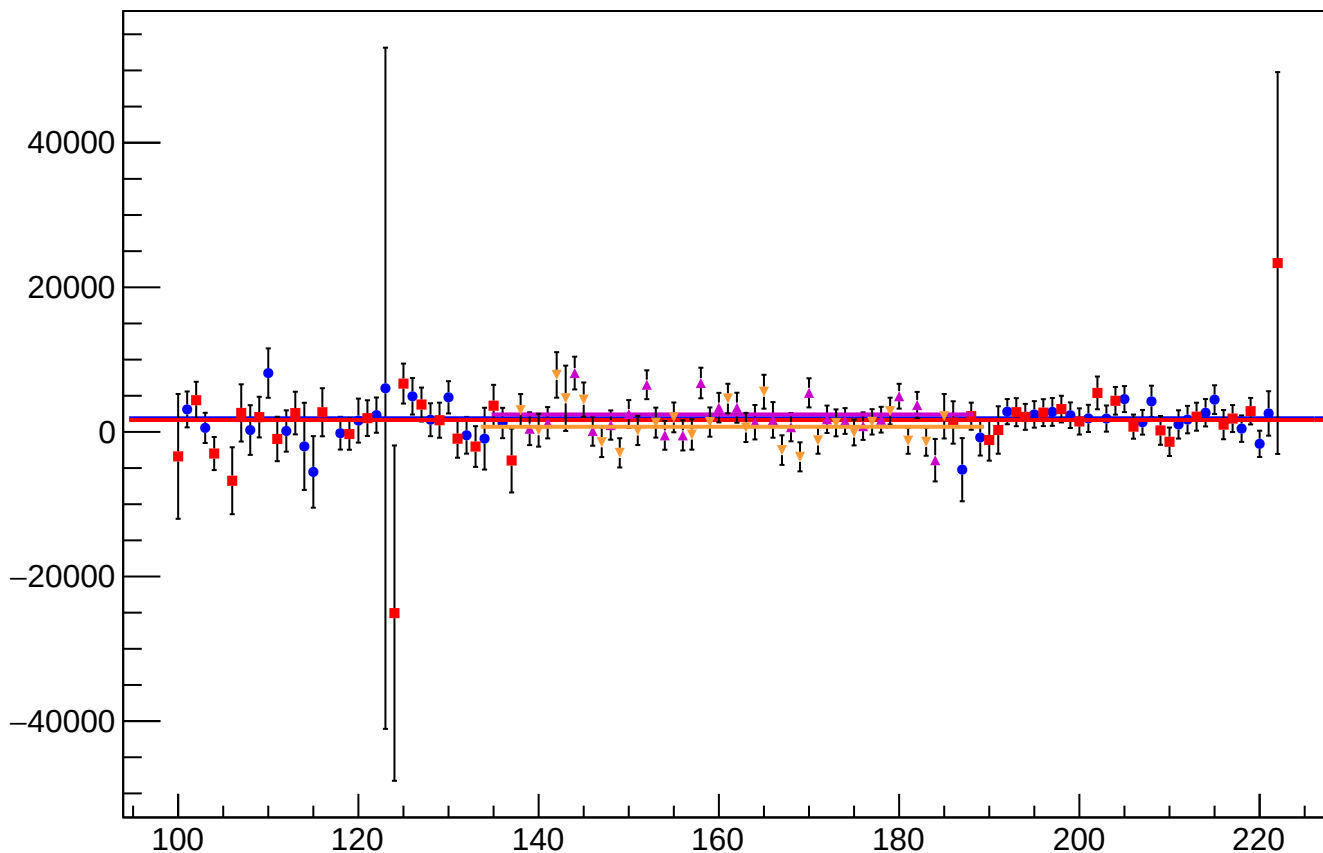
Right: 10381.575+/-1.248 χ^2/NDF : 9352747.7/72

In: 10168.769+/-1.226 χ^2/NDF : 4543307.5/57

Out: 9777.896+/-1.173 χ^2/NDF : 7057482.0/62

All: 9964.611+/-0.848 χ^2/NDF : 11653850.7/131

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1882.899+/-381.514 χ^2/NDF : 27.0/34

Left Out: 709.722+/-417.377 χ^2/NDF :34.8/24

Right Out: 1647.328+/-385.621 χ^2/NDF : 32.6/37

Left In: 2414.749+/-423.472 χ^2/NDF :34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

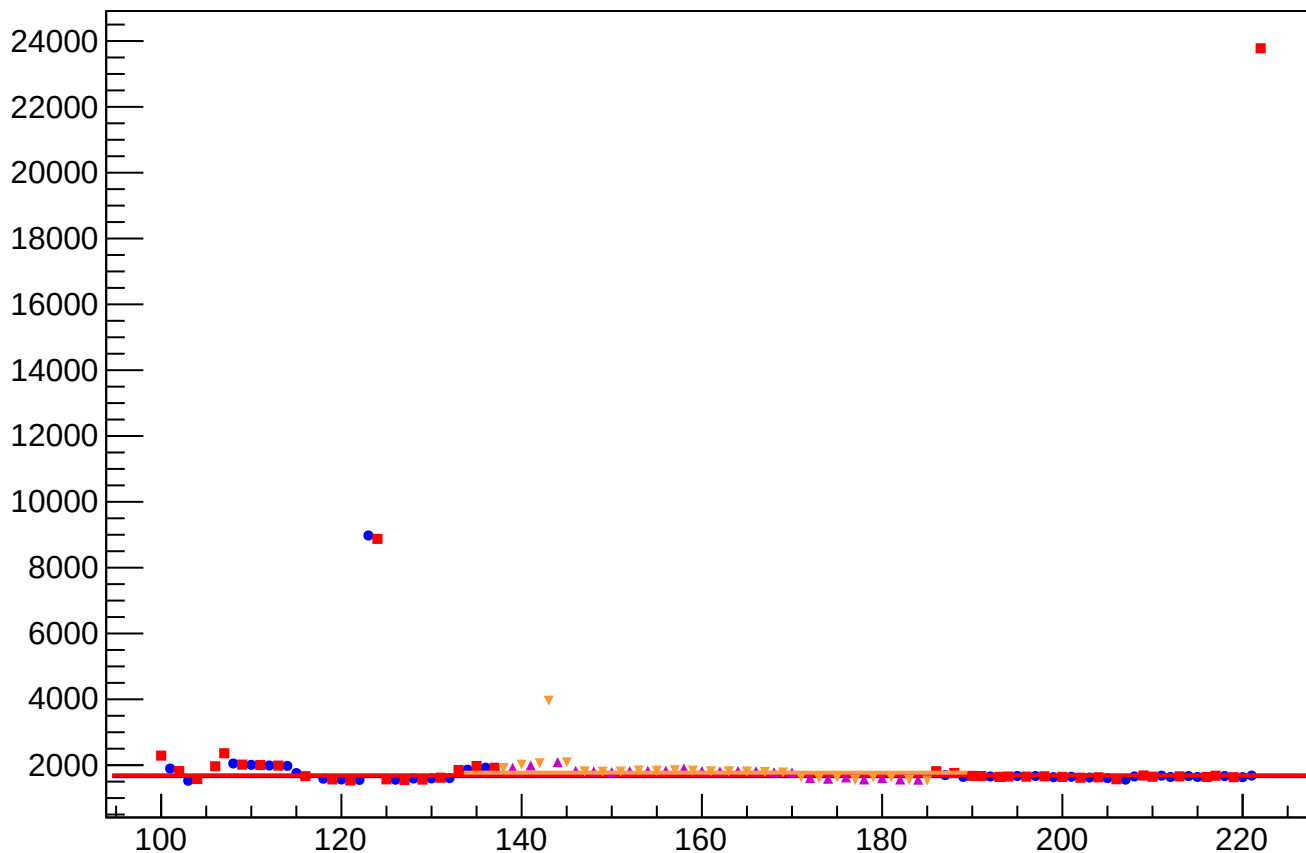
Right: 1766.374+/-271.211 χ^2/NDF : 59.8/72

In: 2121.178+/-283.447 χ^2/NDF :61.9/57

Out: 1215.547+/-283.237 χ^2/NDF :70.2/62

All: 1668.027+/-200.353 χ^2/NDF : 137.2/120

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1664.722 $\pm$ 0.270 χ^2 /NDF: 217181.1/34

Left Out: 1772.046 $\pm$ 0.295 χ^2 /NDF: 702472.4/24

Right Out: 1691.617 $\pm$ 0.272 χ^2 /NDF: 1840838.9/37

Left In: 1759.600 $\pm$ 0.299 χ^2 /NDF: 214891.5/22

Left: 1765.913 $\pm$ 0.210 χ^2 /NDF: 918240.2/47

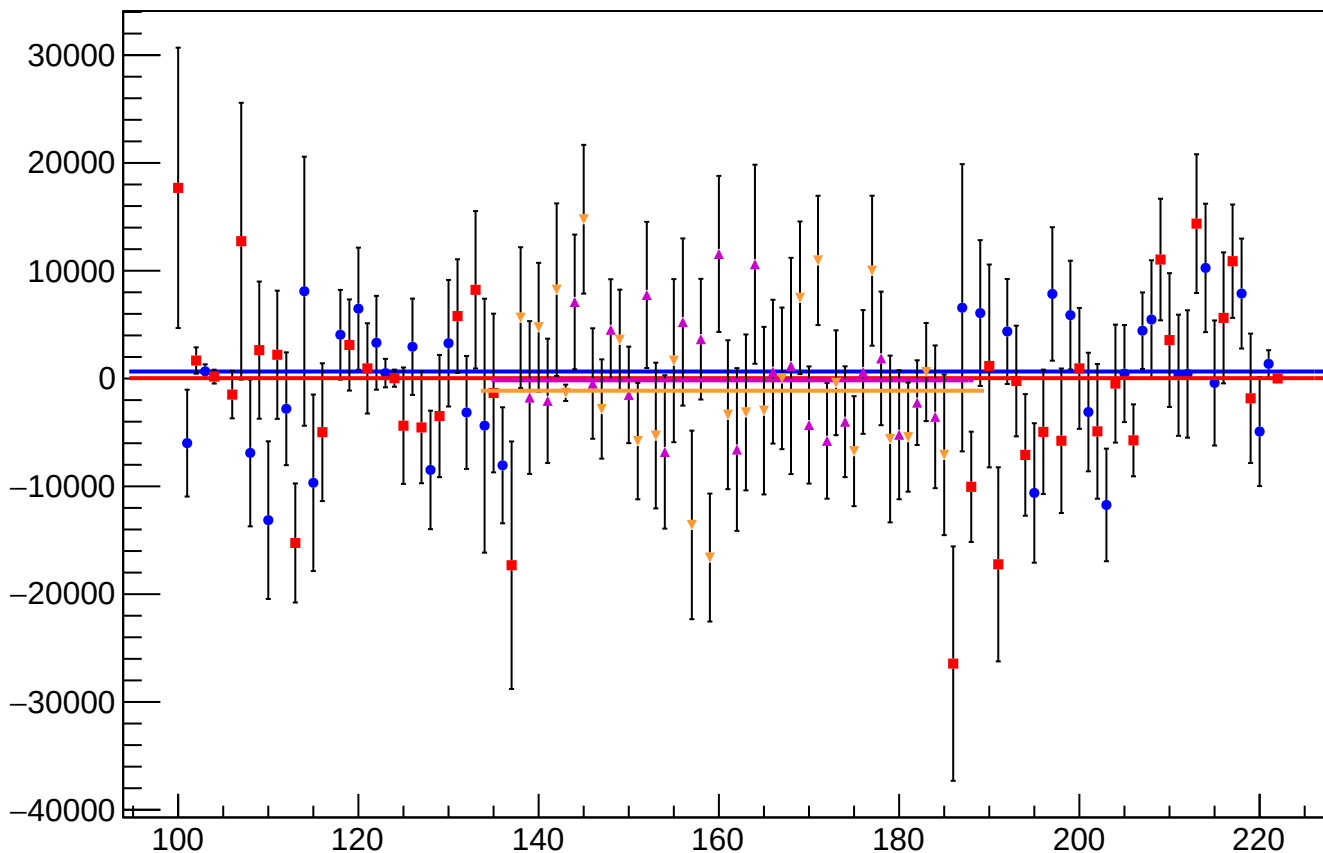
Right: 1678.045 $\pm$ 0.192 χ^2 /NDF: 2062943.5/72

In: 1707.229 $\pm$ 0.200 χ^2 /NDF: 487487.8/57

Out: 1728.596 $\pm$ 0.200 χ^2 /NDF: 2583432.2/62

All: 1717.929 $\pm$ 0.142 χ^2 /NDF: 3076611.3/12

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 652.557 ± 464.582 $\chi^2/\text{NDF}: 38.7/34$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: 35.342 ± 307.461 $\chi^2/\text{NDF}: 55.5/37$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

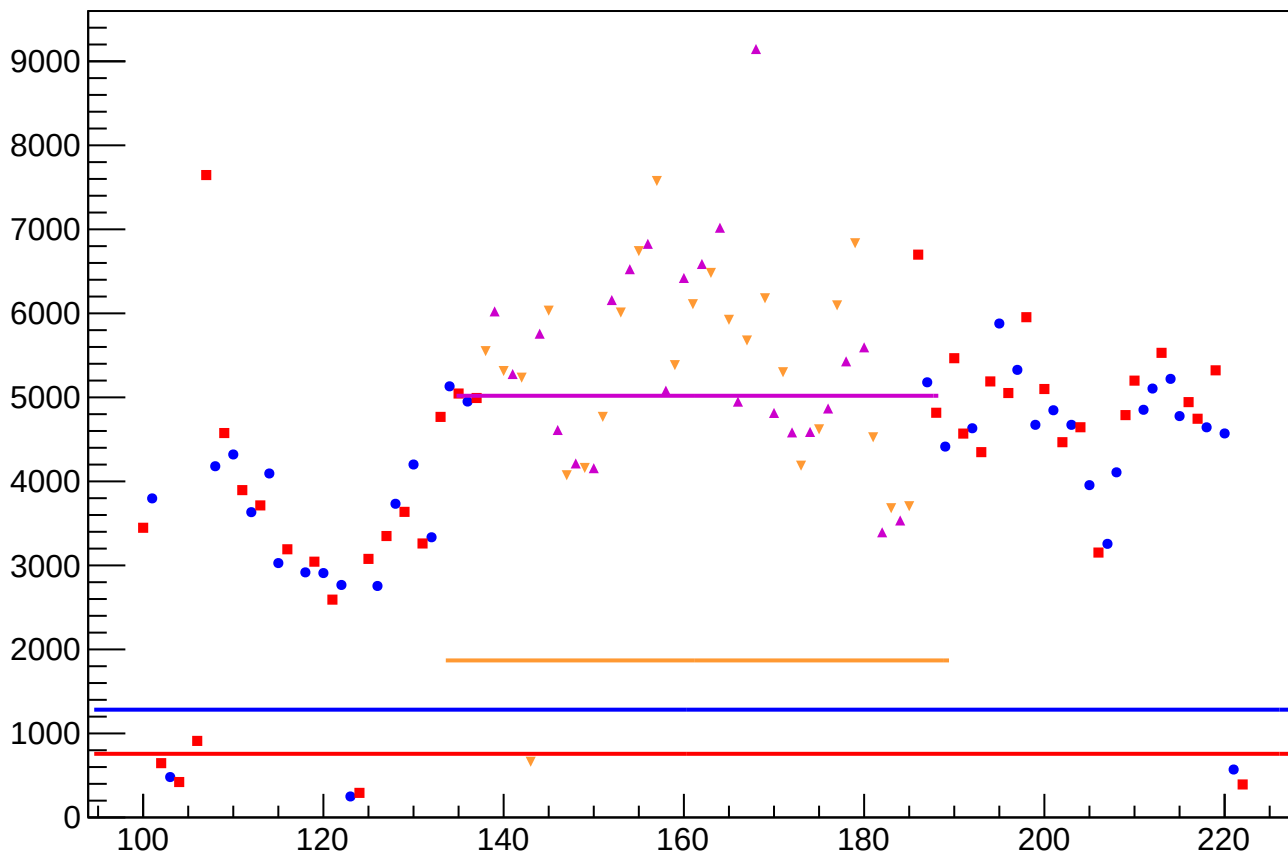
Right: 223.333 ± 256.397 $\chi^2/\text{NDF}: 95.4/72$

In: 550.437 ± 434.720 $\chi^2/\text{NDF}: 53.2/57$

Out: -178.981 ± 277.747 $\chi^2/\text{NDF}: 89.6/62$

All: 32.461 ± 234.054 $\chi^2/\text{NDF}: 144.8/120$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1282.838 $\pm$ 0.329

χ^2 /NDF: 22803334.1/34

Left: 2550.597 $\pm$ 0.405

χ^2 /NDF: 31661059.7/47

Left Out: 1868.983 $\pm$ 0.458

χ^2 /NDF: 19852416.6/24

Right: 917.467 $\pm$ 0.181

χ^2 /NDF: 51852348.9/72

Right Out: 757.442 $\pm$ 0.217

χ^2 /NDF: 27270221.7/37

In: 1747.724 $\pm$ 0.307

χ^2 /NDF: 40467327.4/57

Out: 961.903 $\pm$ 0.196

χ^2 /NDF: 51930896.2/62

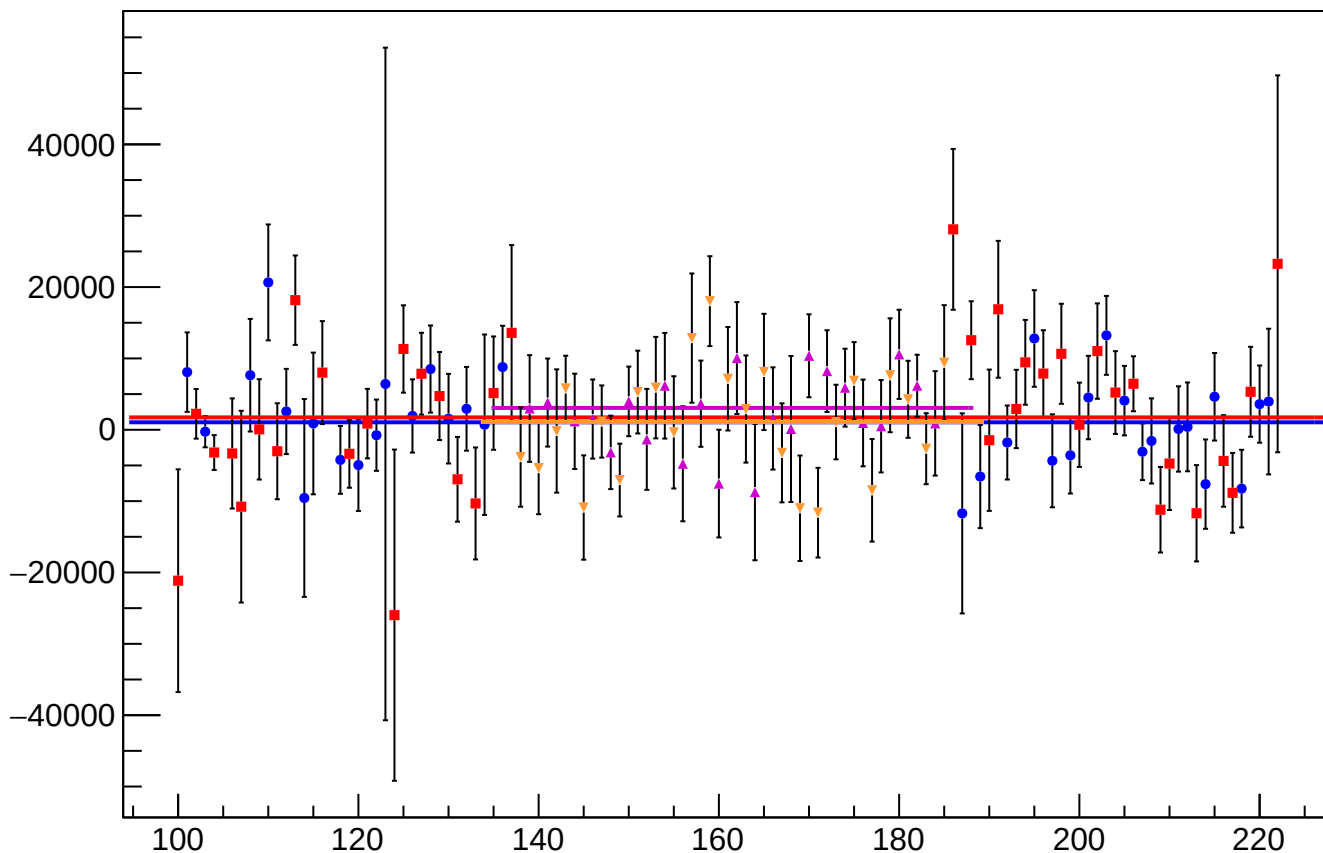
Left In: 5019.114 $\pm$ 0.871

χ^2 /NDF: 1569031.9/22

All: 1189.695 $\pm$ 0.166

χ^2 /NDF: 97039008.3/131

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1049.144+/-953.321 χ^2/NDF : 33.8/34

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 1733.656+/-963.093 χ^2/NDF : 63.0/37

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

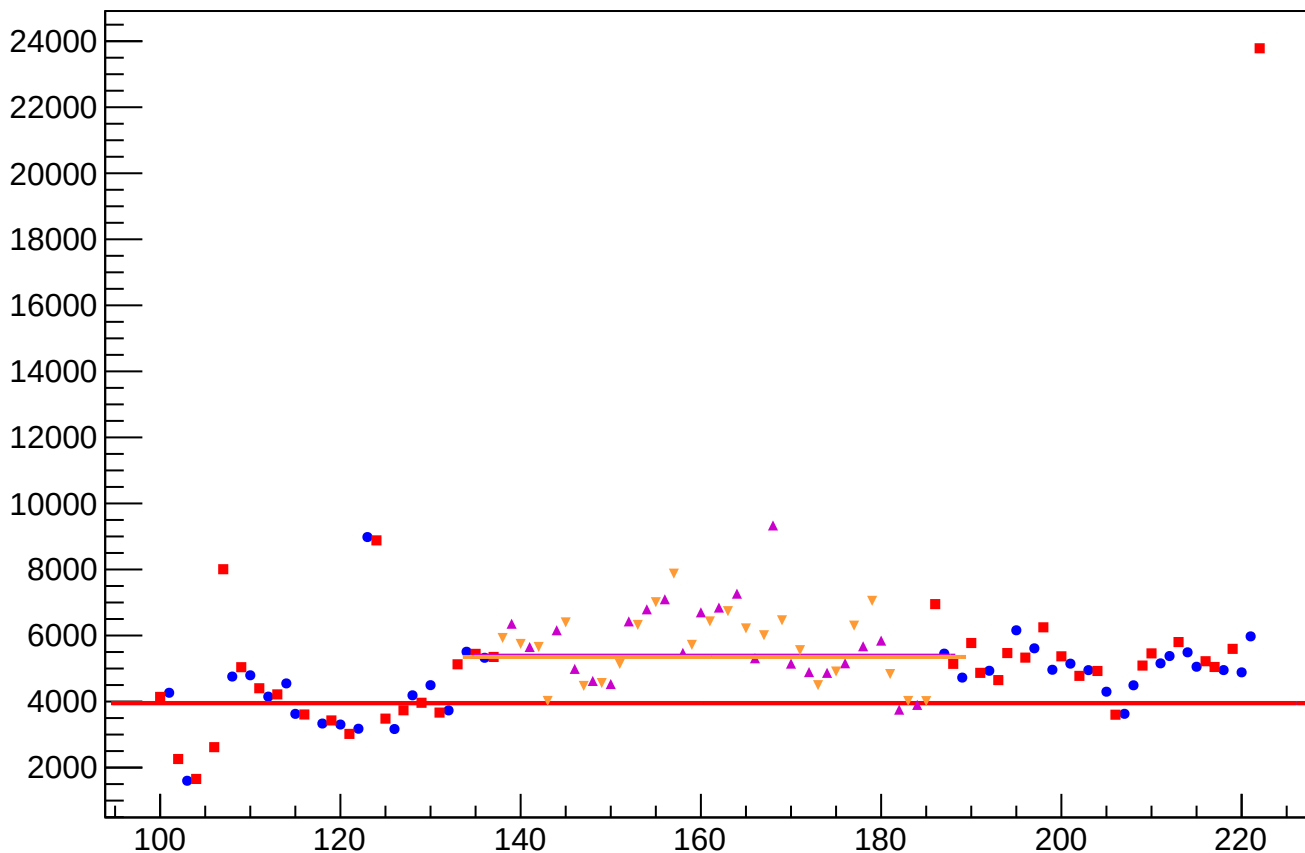
Right: 1387.909+/-677.528 χ^2/NDF : 97.1/72

In: 1741.347+/-772.474 χ^2/NDF : 48.0/57

Out: 1500.951+/-768.076 χ^2/NDF : 95.1/62

All: 1620.463+/-544.660 χ^2/NDF : 143.2/120

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3948.023+/-0.674 χ^2/NDF : 3996099.7/34

Left Out: 5350.804+/-0.900 χ^2/NDF : 1241497.9/24

Right Out: 3957.105+/-0.675 χ^2/NDF : 5731534.4/37

Left In: 5389.724+/-0.932 χ^2/NDF : 1309863.0/22

Left: 5369.587+/-0.648 χ^2/NDF : 2552263.0/47

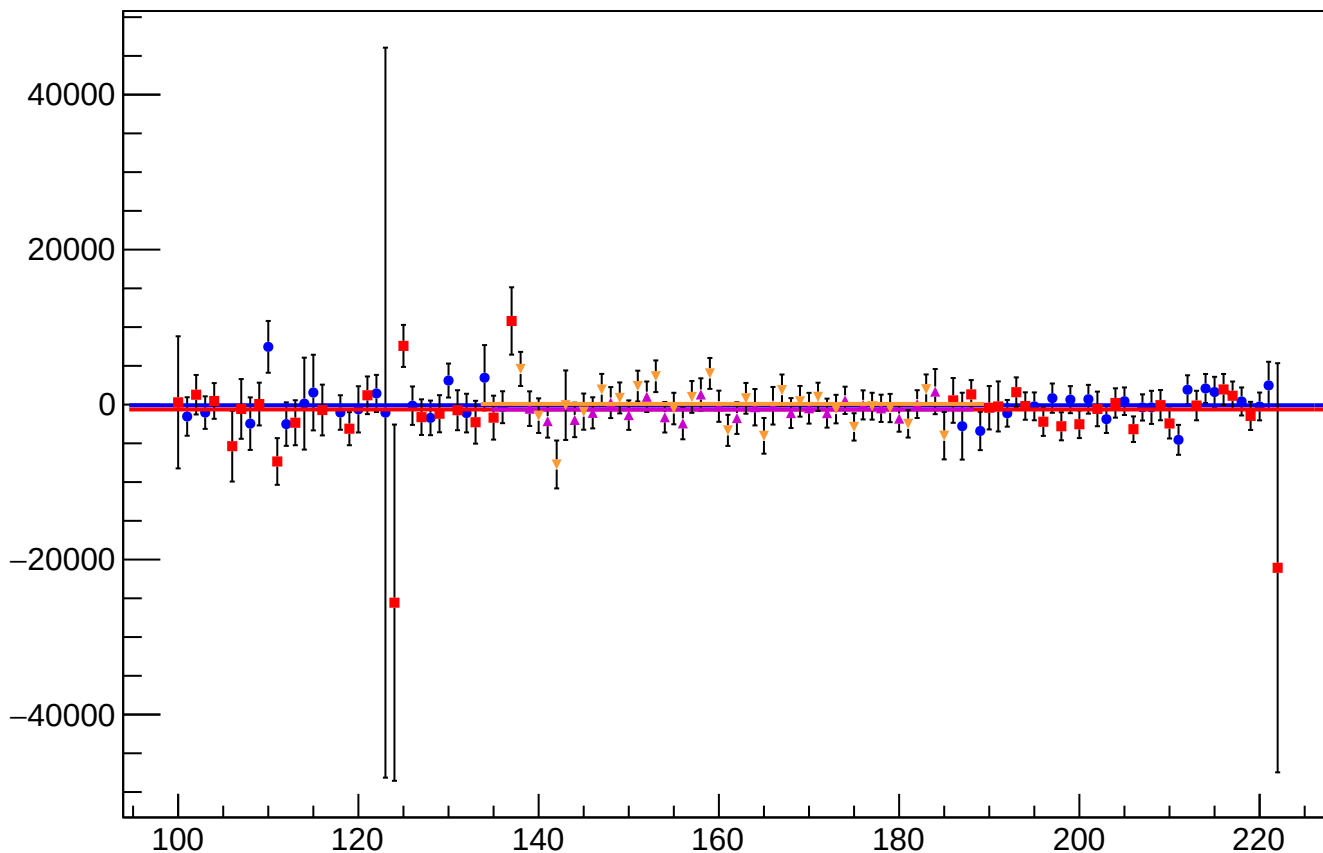
Right: 3952.555+/-0.477 χ^2/NDF : 9727724.6/72

In: 4443.126+/-0.546 χ^2/NDF : 6876780.1/57

Out: 4459.081+/-0.540 χ^2/NDF : 8506572.0/62

All: 4451.191+/-0.384 χ^2/NDF : 15383783.4/121

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -84.562 ± 376.301 χ^2/NDF : 24.8/34

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -626.486 ± 380.162 χ^2/NDF : 40.2/37

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

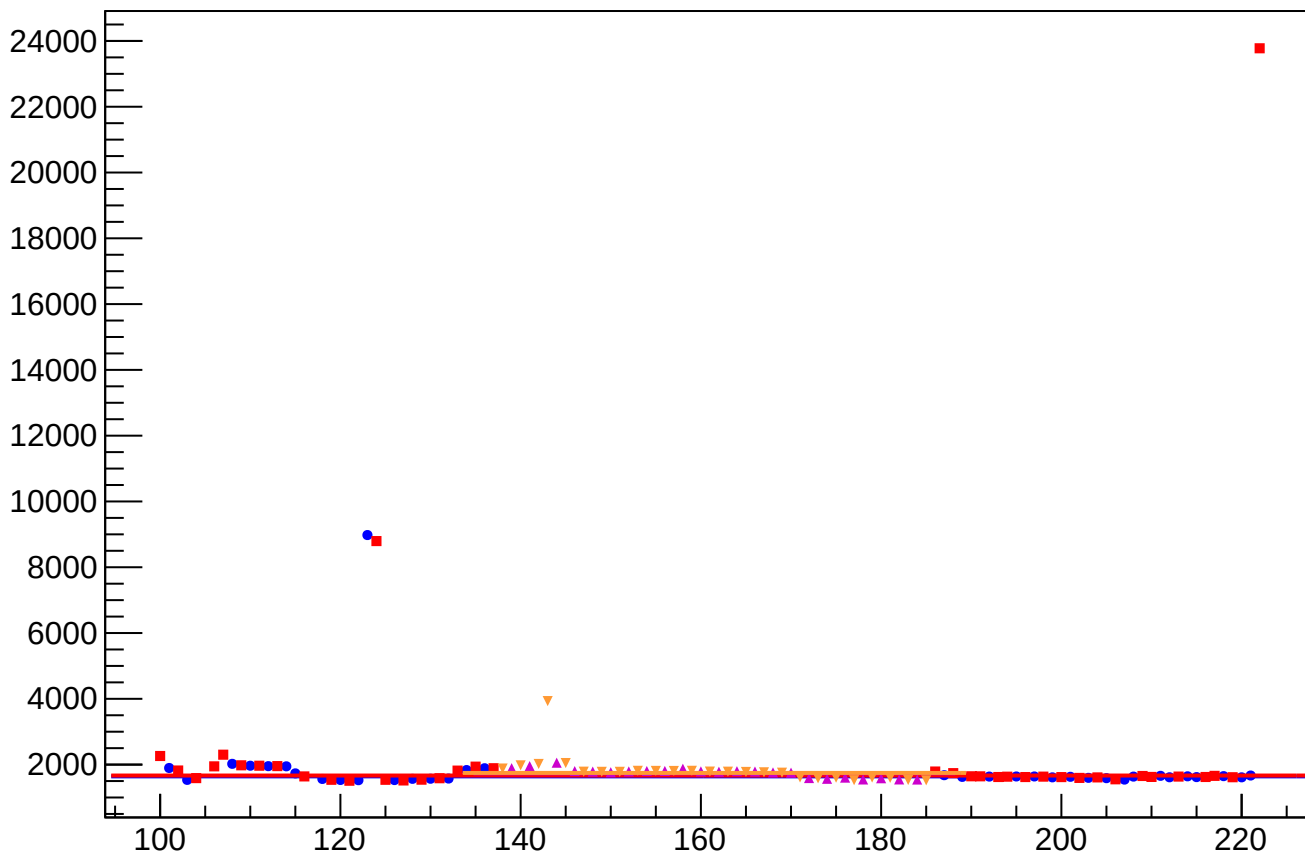
Right: -352.759 ± 267.439 χ^2/NDF : 66.0/72

In: -333.541 ± 279.562 χ^2/NDF : 31.9/57

Out: -298.331 ± 279.247 χ^2/NDF : 77.8/62

All: -315.916 ± 197.569 χ^2/NDF : 109.8/120

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1642.018 $\pm$ 0.266 χ^2 /NDF: 214545.7/34

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1667.823 $\pm$ 0.268 χ^2 /NDF: 1838944.4/37

Left In: 1735.540 $\pm$ 0.295 χ^2 /NDF: 206766.6/22

Left: 1741.517 $\pm$ 0.207 χ^2 /NDF: 905766.2/47

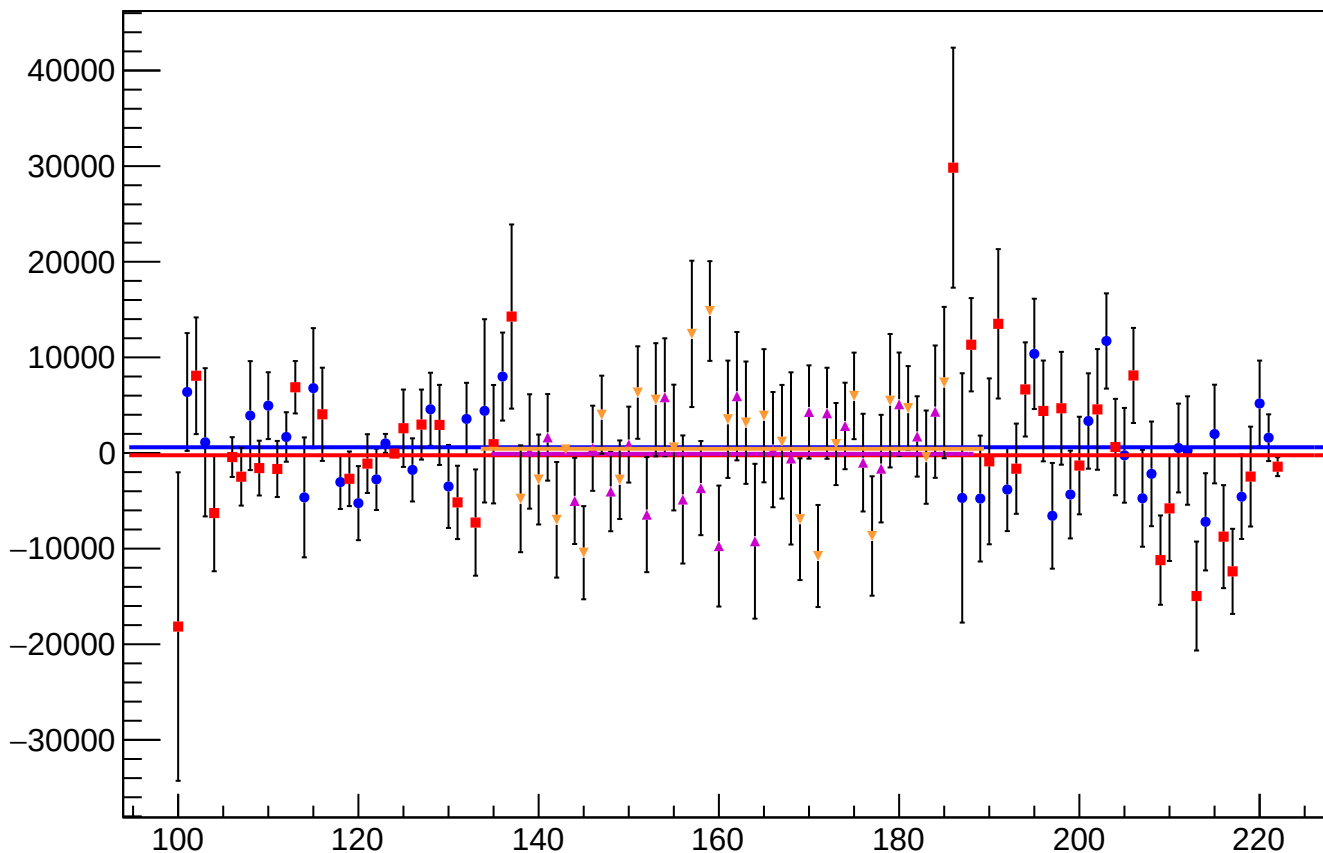
Right: 1654.808 $\pm$ 0.189 χ^2 /NDF: 2058151.5/72

In: 1683.923 $\pm$ 0.198 χ^2 /NDF: 476663.9/57

Out: 1704.370 $\pm$ 0.197 χ^2 /NDF: 2577458.5/62

All: 1694.166 $\pm$ 0.140 χ^2 /NDF: 3059482.3/12

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 600.679 ± 596.612 χ^2/NDF : 34.9/34

Left Out: 442.187 ± 440.335 χ^2/NDF : 33.9/24

Right Out: -235.985 ± 325.141 χ^2/NDF : 67.3/37

Left In: -88.508 ± 1094.838 χ^2/NDF : 13.4/22

Left: 368.296 ± 408.531 χ^2/NDF : 47.5/47

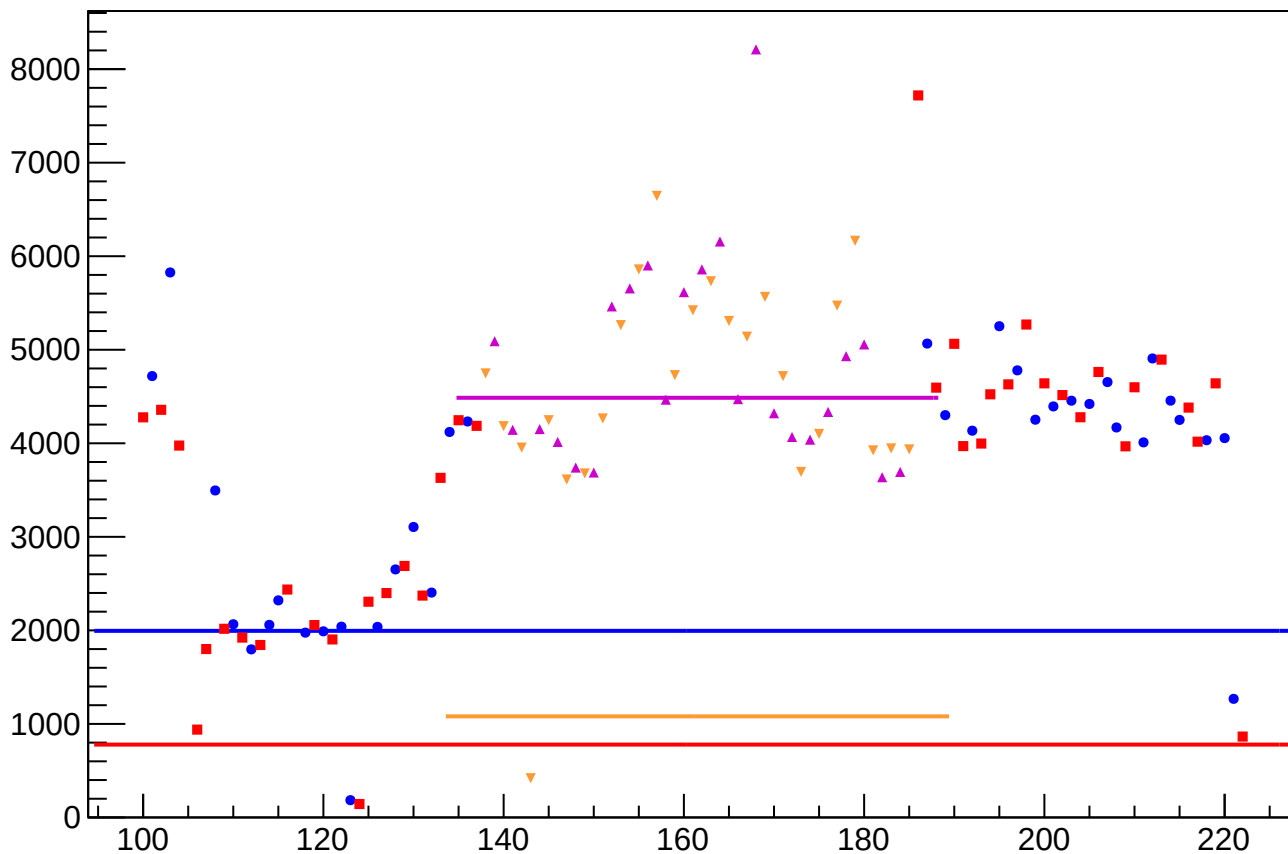
Right: -44.396 ± 285.497 χ^2/NDF : 103.7/72

In: 442.883 ± 523.878 χ^2/NDF : 48.7/57

Out: 3.306 ± 261.563 χ^2/NDF : 102.7/62

All: 91.019 ± 234.016 χ^2/NDF : 151.9/120

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1994.903+/-0.422

χ^2/NDF : 16017846.7/34

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 778.912+/-0.230

χ^2/NDF : 28585291.4/37

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

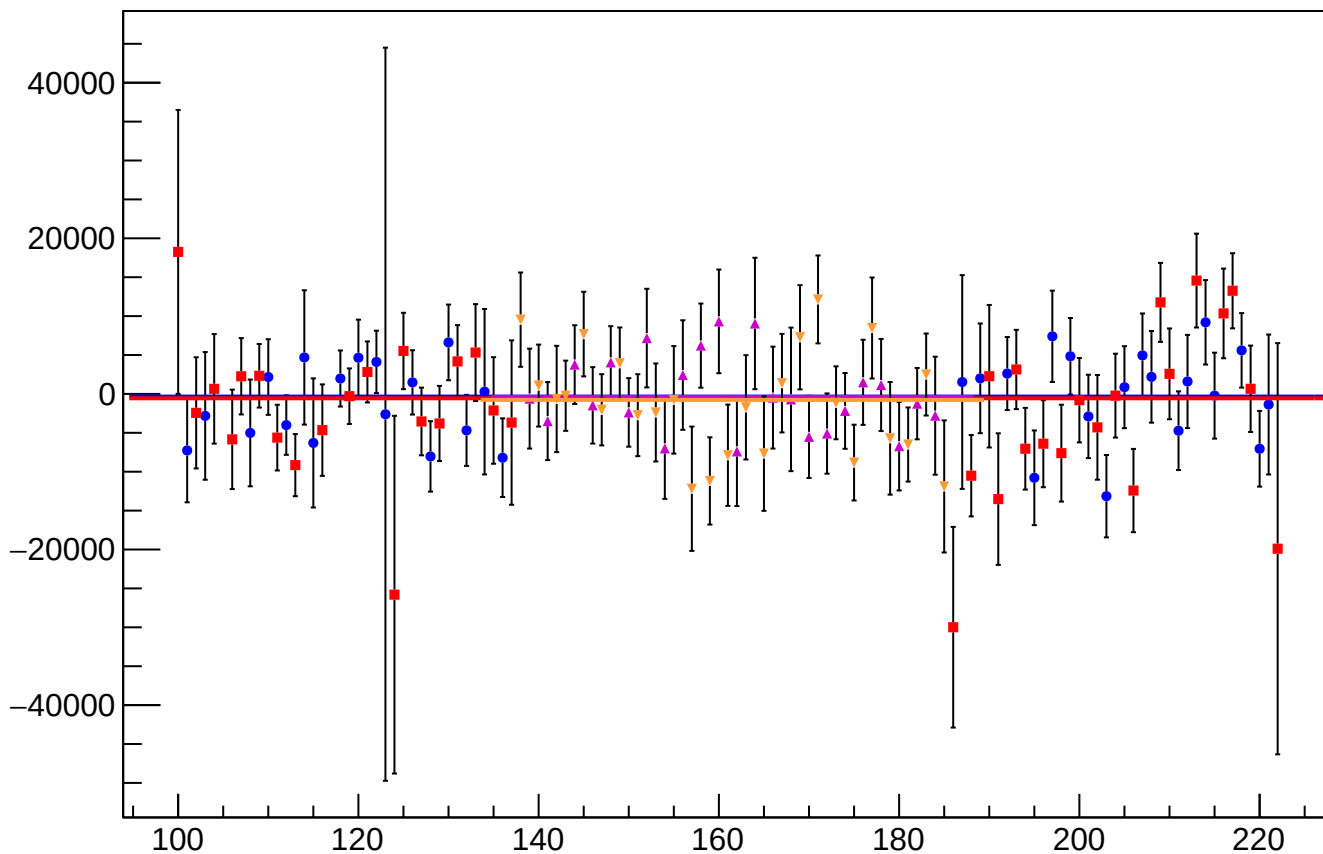
Right: 1057.363+/-0.202 χ^2/NDF : 51008831.0/72

In: 2565.397+/-0.370 χ^2/NDF : 25186500.0/57

Out: 885.504+/-0.185 χ^2/NDF : 53650721.8/62

All: 1220.710+/-0.165 χ^2/NDF : 95298825.2/100

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -343.740 ± 914.995 $\chi^2/\text{NDF}: 35.8/34$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -562.538 ± 901.562 $\chi^2/\text{NDF}: 61.5/37$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

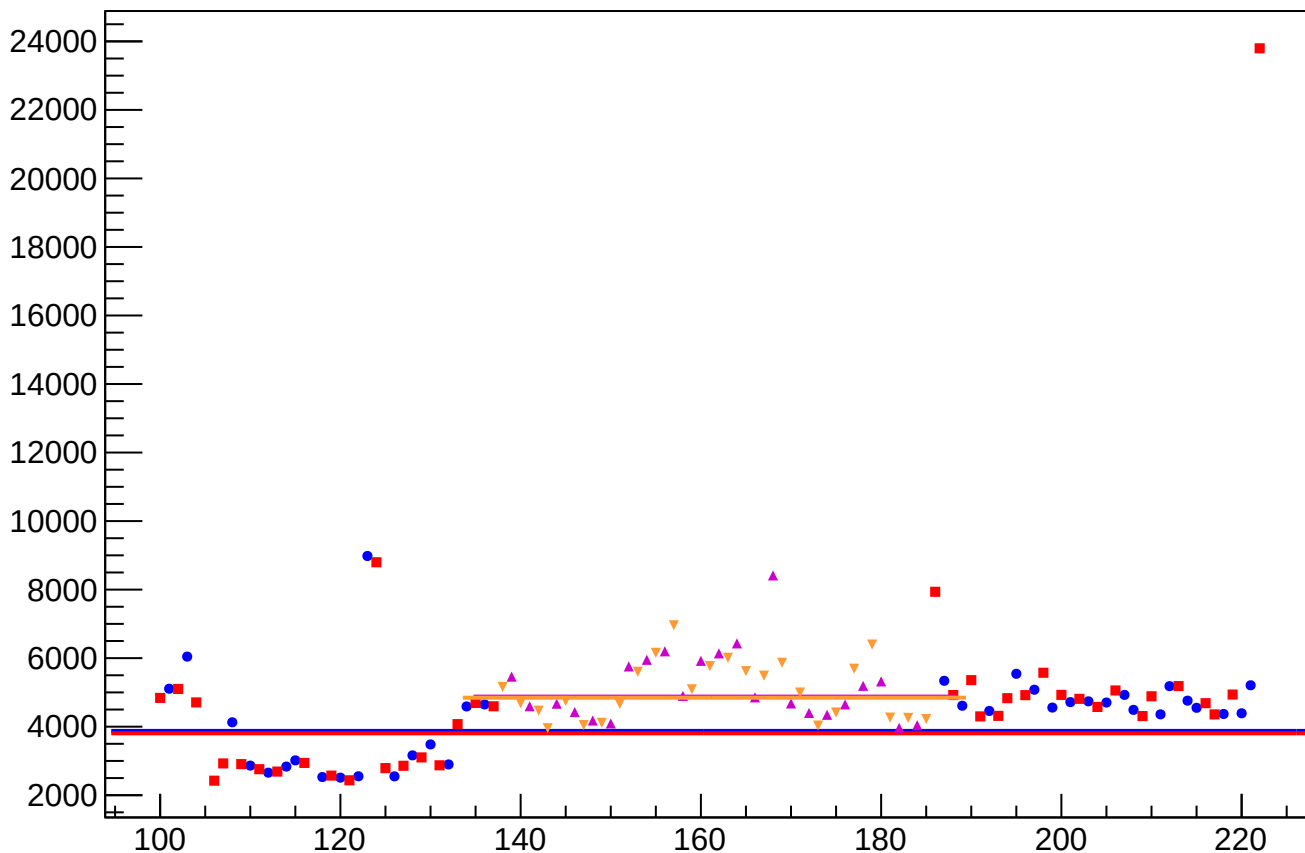
Right: -454.757 ± 642.197 $\chi^2/\text{NDF}: 97.3/72$

In: -360.601 ± 724.521 $\chi^2/\text{NDF}: 50.0/57$

Out: -640.209 ± 708.898 $\chi^2/\text{NDF}: 91.4/62$

All: -503.452 ± 506.700 $\chi^2/\text{NDF}: 141.5/120$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3876.535+/-0.647 χ^2/NDF : 2524560.3/34

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3805.513+/-0.633 χ^2/NDF : 4150209.8/37

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

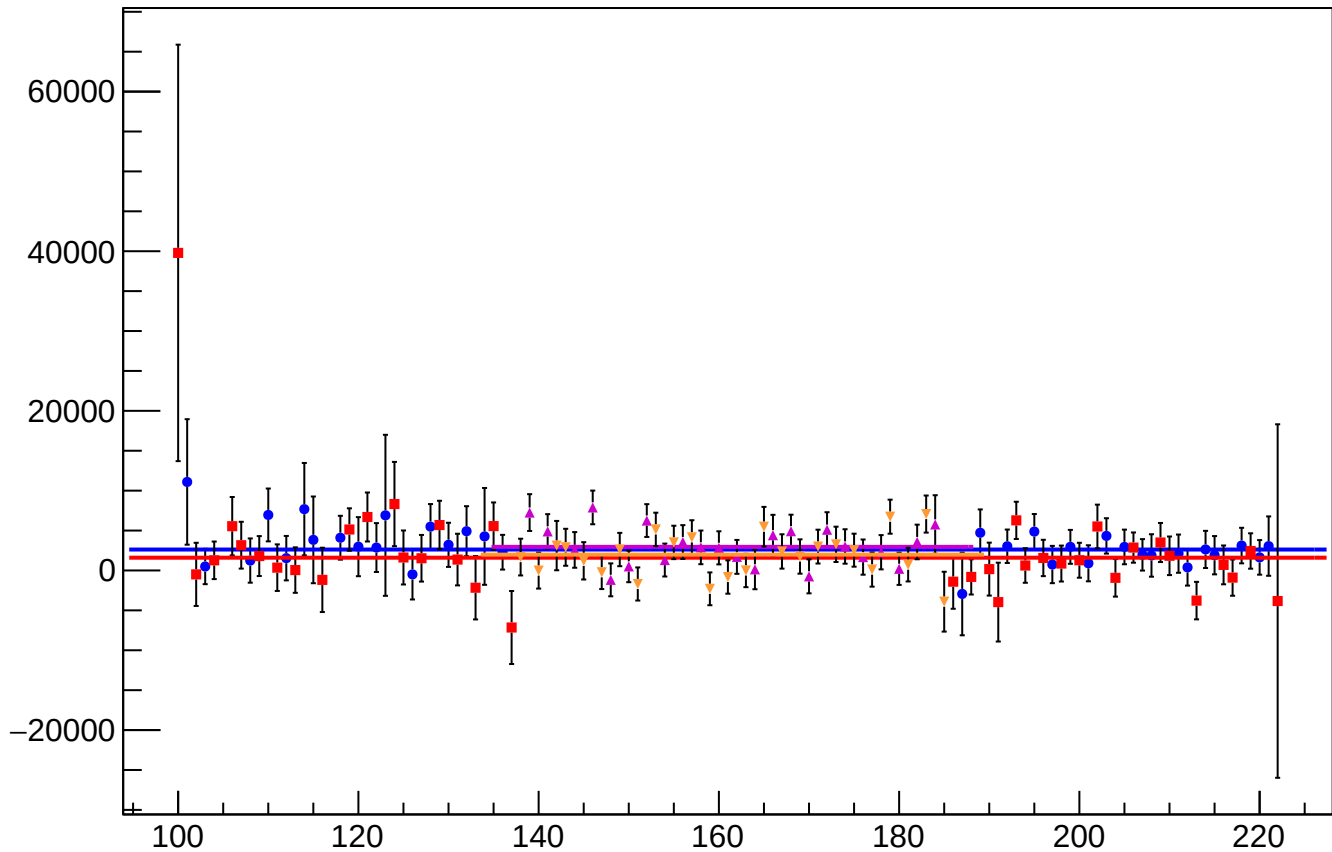
Right: 3840.243+/-0.452 χ^2/NDF : 6680927.5/72

In: 4249.881+/-0.512 χ^2/NDF : 4375884.8/57

Out: 4199.077+/-0.499 χ^2/NDF : 6081428.0/62

All: 4223.812+/-0.357 χ^2/NDF : 10462358.7/131

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2621.673 $\pm$ 453.165 χ^2 /NDF: 14.4/34

Left Out: 1985.469 $\pm$ 443.190 χ^2 /NDF:32.4/24

Right Out: 1599.140 $\pm$ 450.972 χ^2 /NDF: 38.0/37

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

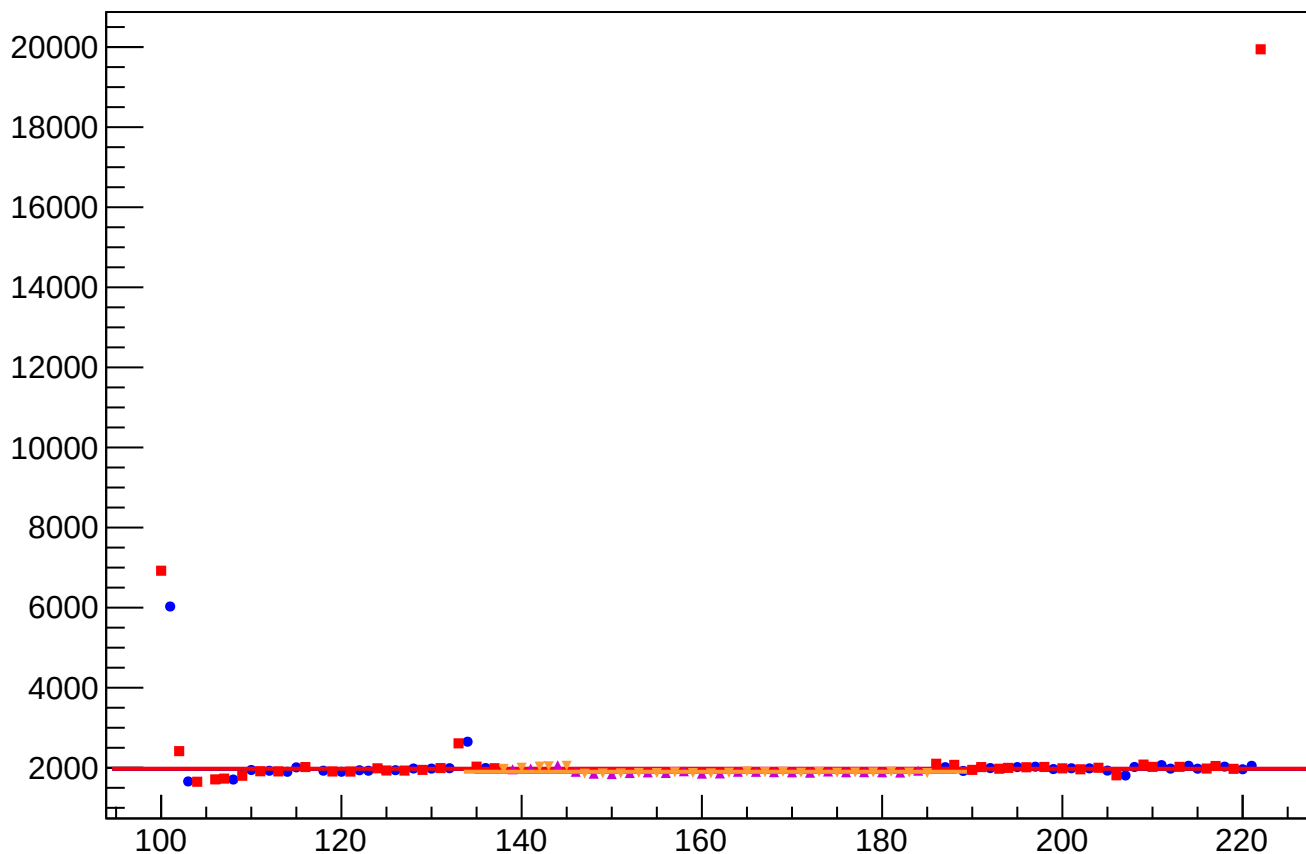
Right: 2107.927 $\pm$ 319.658 χ^2 /NDF: 54.9/72

In: 2788.276 $\pm$ 320.925 χ^2 /NDF:43.1/57

Out: 1795.667 $\pm$ 316.098 χ^2 /NDF:70.8/62

All: 2284.451 $\pm$ 225.202 χ^2 /NDF: 118.7/120

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1971.458+/-0.320 χ^2/NDF : 644835.2/34

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1975.976+/-0.319 χ^2/NDF : 1574510.4/37

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

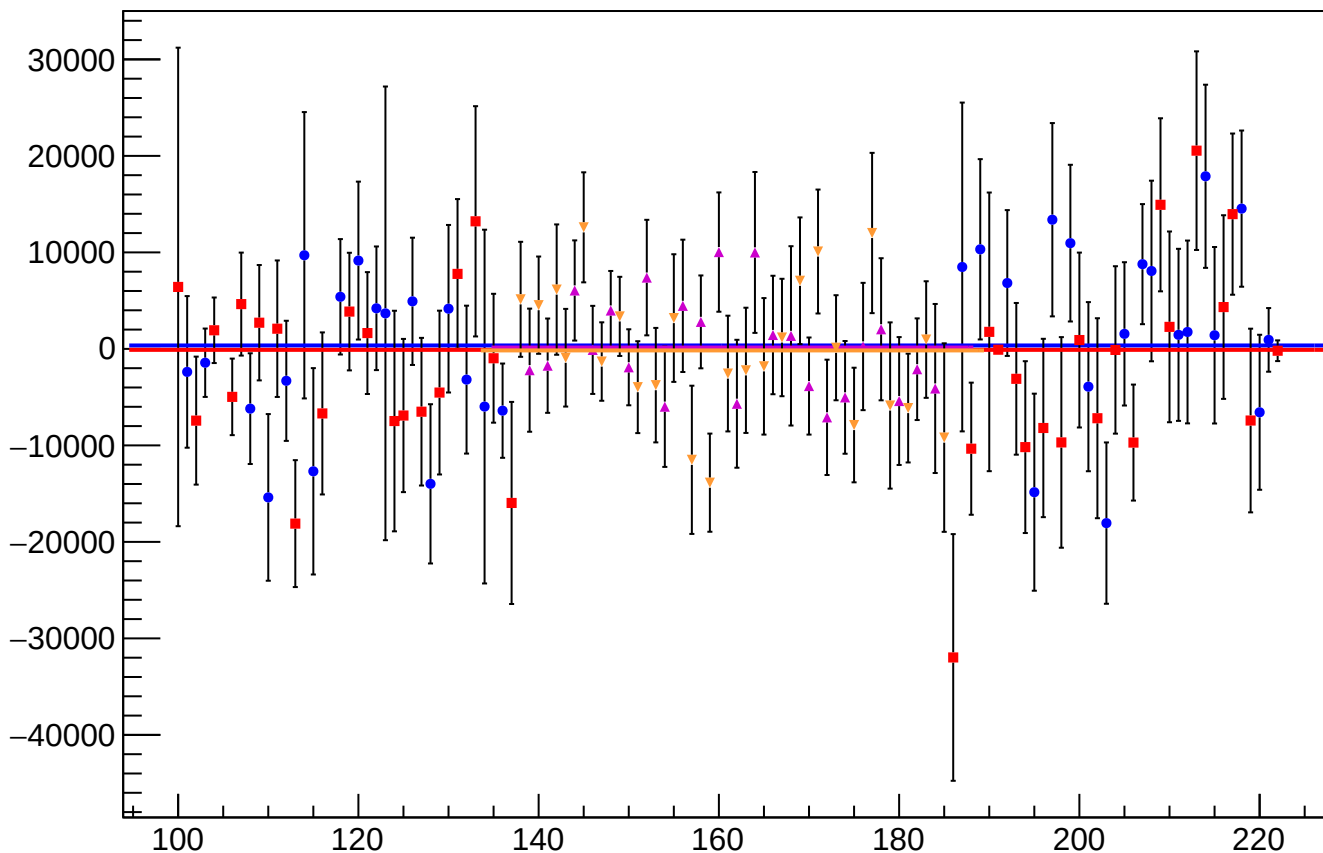
Right: 1973.730+/-0.226 χ^2/NDF : 2219445.5/72

In: 1934.570+/-0.227 χ^2/NDF : 692601.0/57

Out: 1938.317+/-0.223 χ^2/NDF : 1632444.3/62

All: 1936.473+/-0.159 χ^2/NDF : 2325183.7/12

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 354.877+/-1212.600 χ^2/NDF : 38.1/34

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -100.106+/-108.941 χ^2/NDF : 44.6/37

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

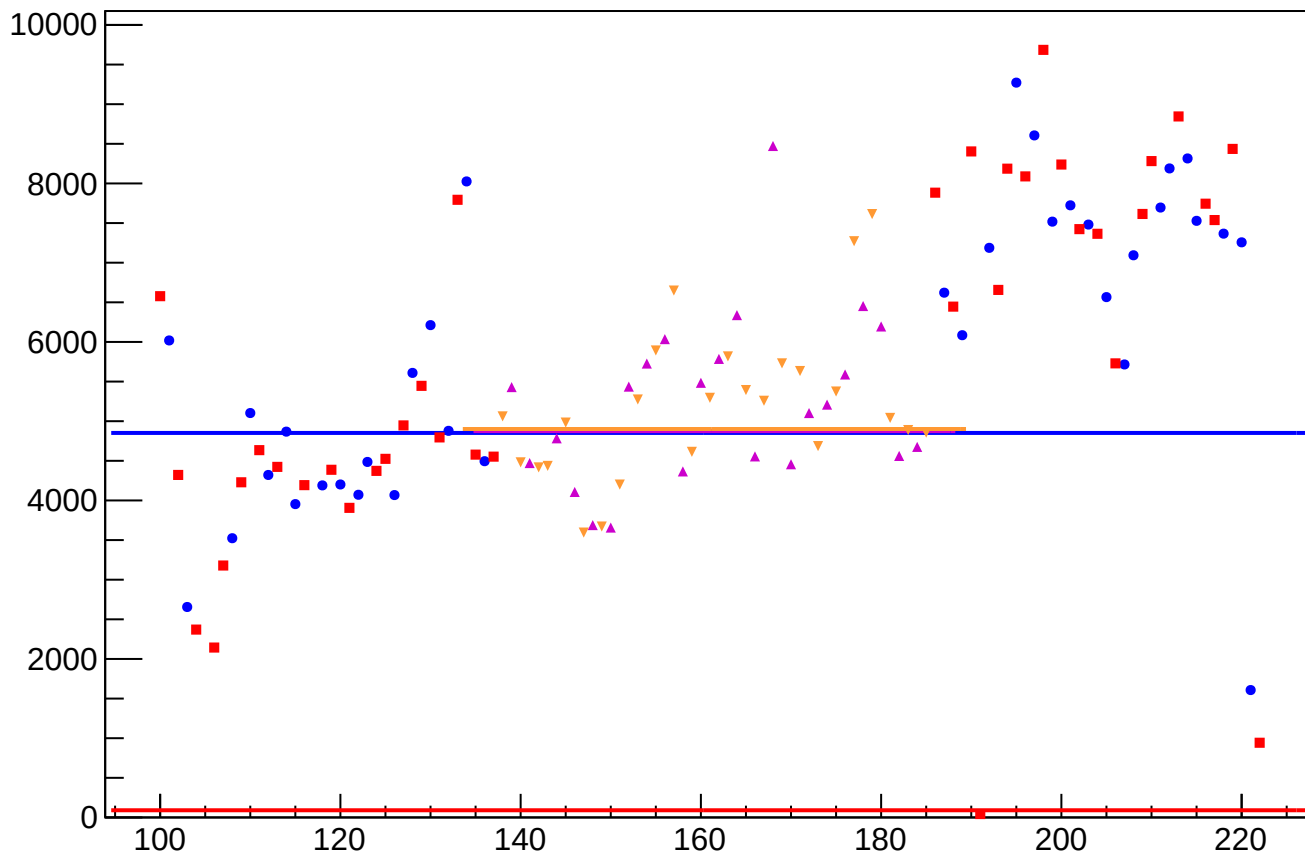
Right: -96.463+/-108.504 χ^2/NDF : 82.8/72

In: 244.988+/-849.658 χ^2/NDF : 52.8/57

Out: -100.603+/-108.469 χ^2/NDF : 74.1/62

All: -95.061+/-107.595 χ^2/NDF : 127.1/120

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4851.908 $\pm$ 0.857 χ^2 /NDF: 6171335.9/34

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF:1136916.0/24

Right Out: 90.769 $\pm$ 0.077 χ^2 /NDF: 38554861.8/37

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF:1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

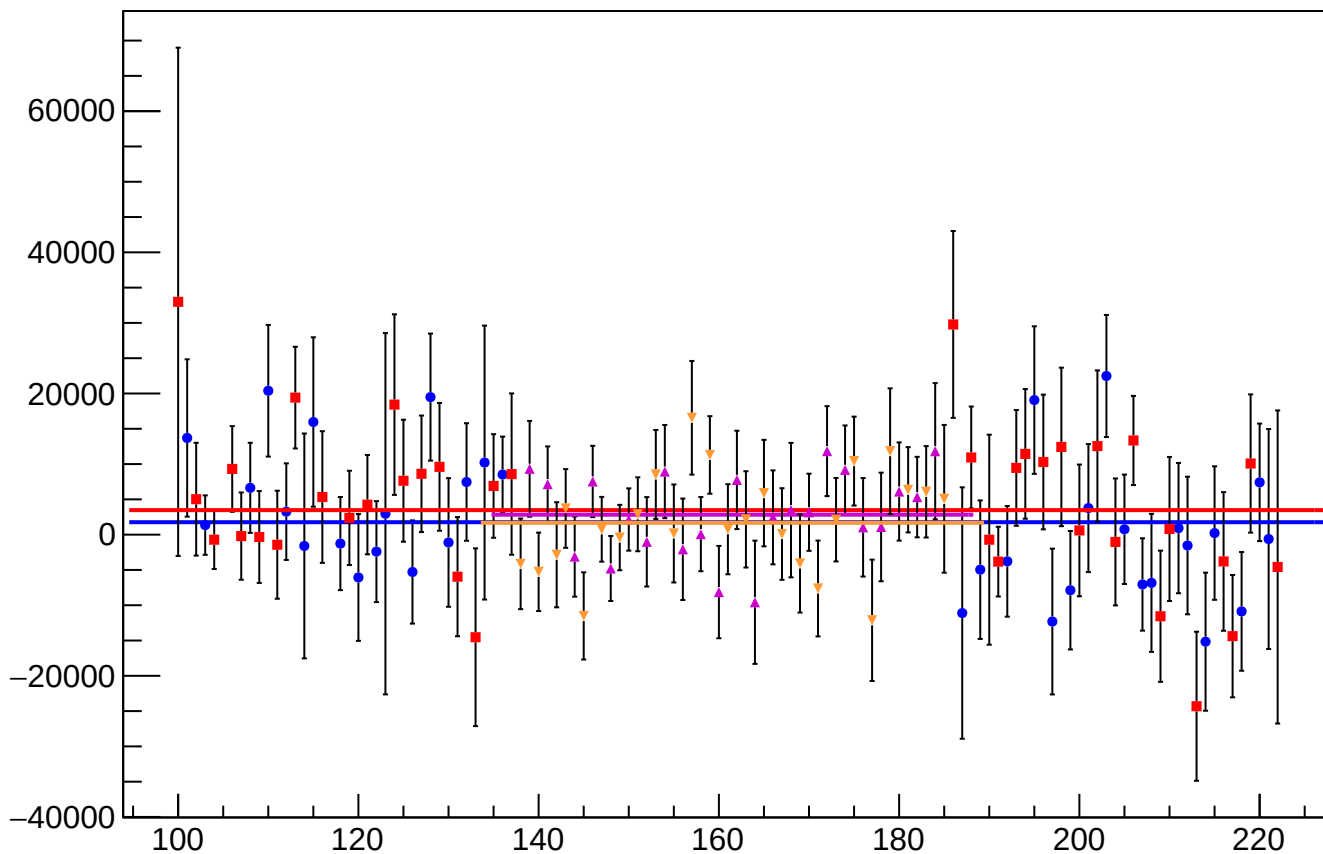
Right: 128.890 $\pm$ 0.077 χ^2 /NDF: 75312381.7/72

In: 4863.720 $\pm$ 0.601 χ^2 /NDF:7400906.7/57

Out: 132.410 $\pm$ 0.077 χ^2 /NDF:73449212.9/62

All: 208.282 $\pm$ 0.076 χ^2 /NDF: 141871742.9/122

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1763.514+/-1415.398 χ^2/NDF : 37.4/34

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 3472.869+/-1319.171 χ^2/NDF : 43.1/37

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

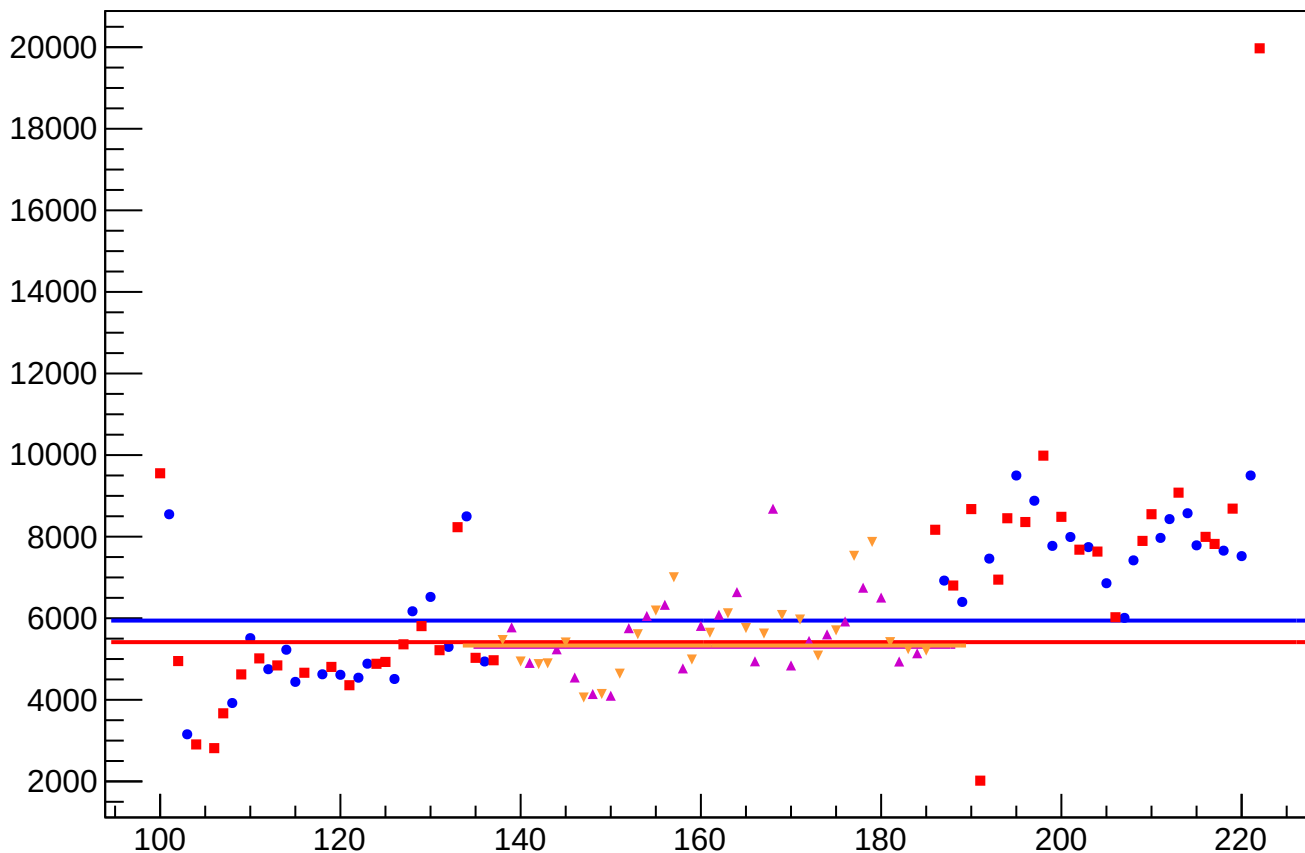
Right: 2678.267+/-965.022 χ^2/NDF : 81.2/72

In: 2343.496+/-952.783 χ^2/NDF : 55.7/57

Out: 2539.906+/-911.779 χ^2/NDF : 69.4/62

All: 2446.018+/-658.744 χ^2/NDF : 125.1/120

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5942.555+/-1.001 χ^2/NDF : 3237577.9/34

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 5414.125+/-0.930 χ^2/NDF : 5995831.3/37

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

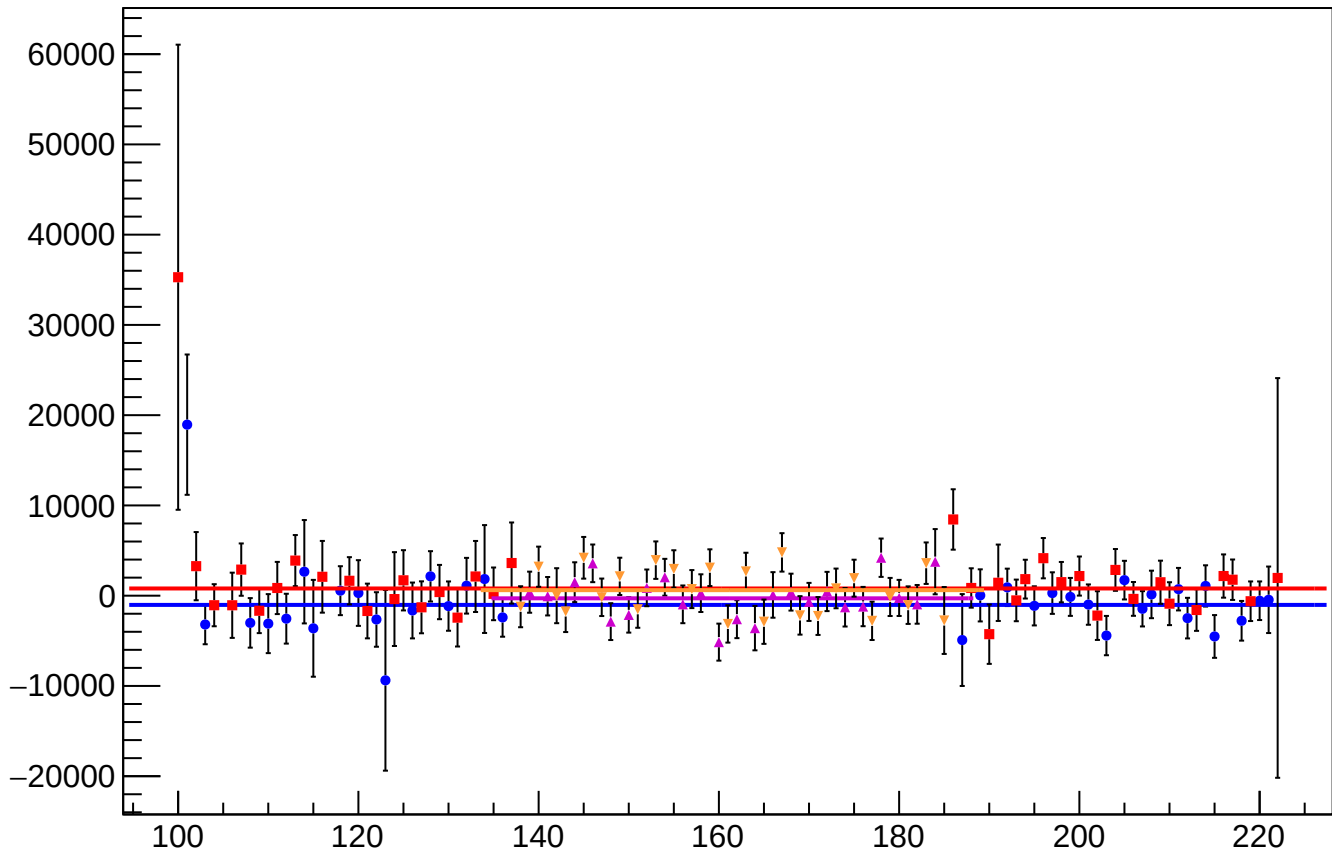
Right: 5658.876+/-0.681 χ^2/NDF : 9383062.9/72

In: 5590.253+/-0.674 χ^2/NDF : 4420181.9/57

Out: 5370.708+/-0.644 χ^2/NDF : 6868082.9/62

All: 5475.477+/-0.465 χ^2/NDF : 11343780.5/113

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1021.525+/-447.273 χ^2/NDF : 24.5/34

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 798.619+/-444.478 χ^2/NDF : 24.9/37

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

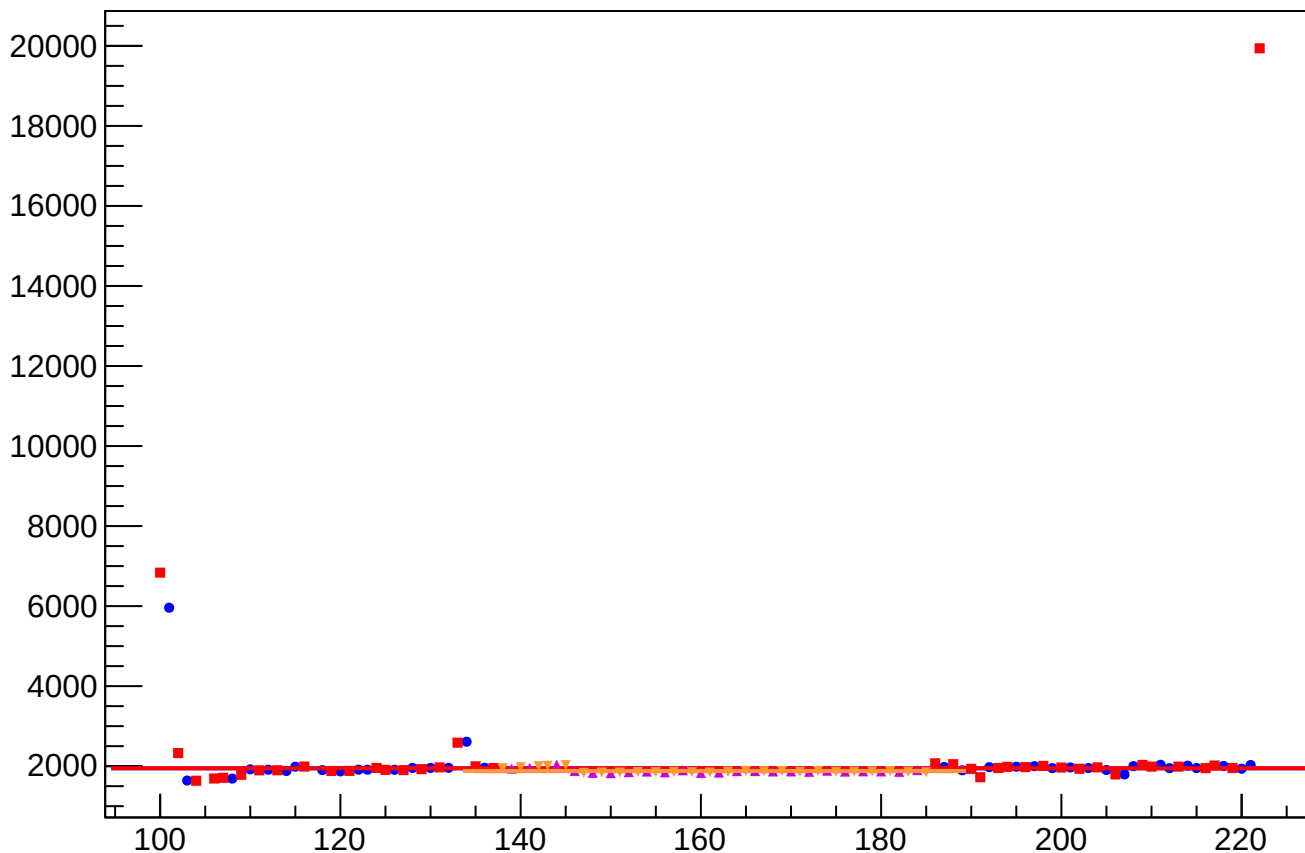
Right: -105.748+/-315.277 χ^2/NDF : 57.7/72

In: -659.137+/-317.081 χ^2/NDF : 49.5/57

Out: 704.155+/-312.073 χ^2/NDF : 57.7/62

All: 33.359+/-222.418 χ^2/NDF : 116.5/120

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1945.970 $\pm$ 0.316 χ^2 /NDF: 640892.3/34

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF:28655.5/24

Right Out: 1947.919 $\pm$ 0.314 χ^2 /NDF: 1574670.9/37

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF:20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

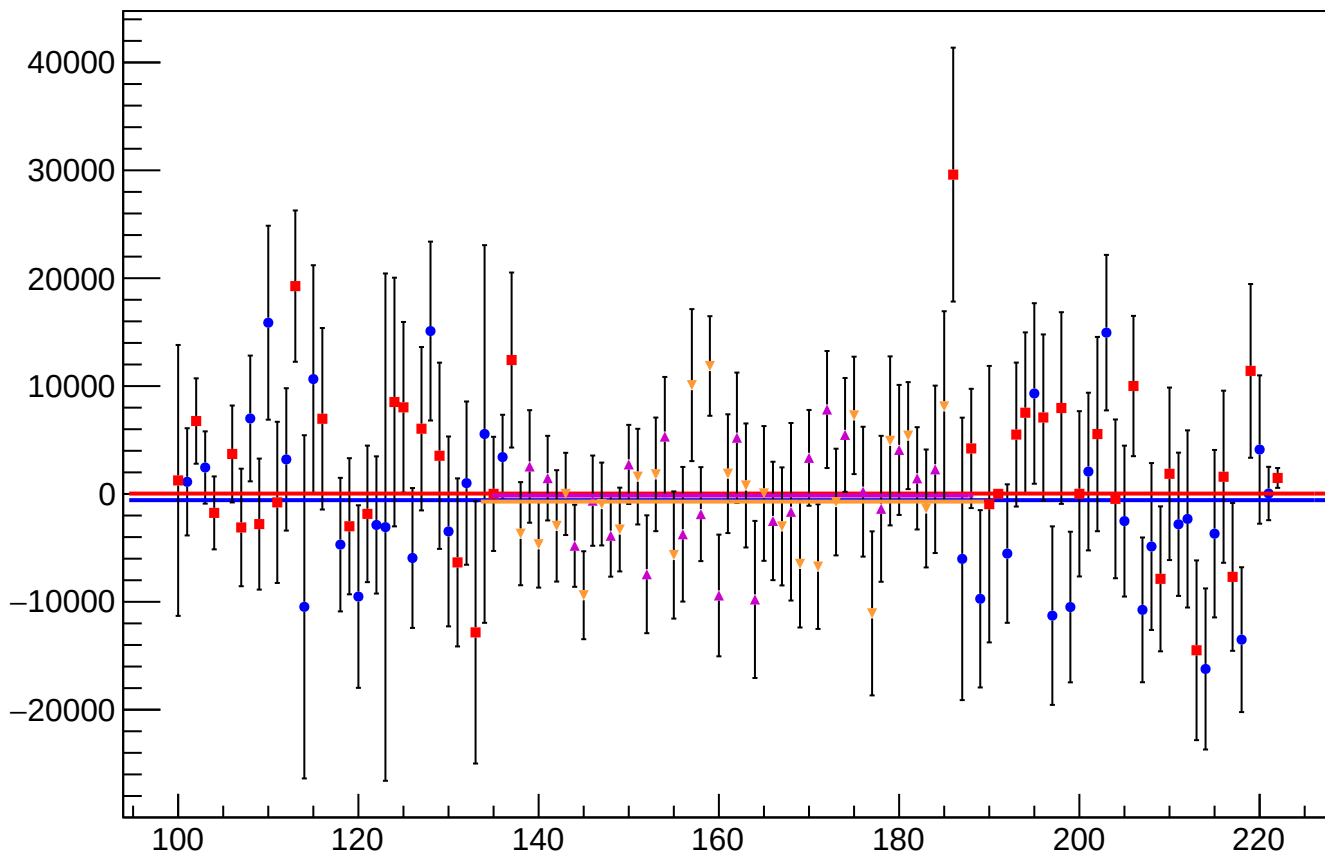
Right: 1946.951 $\pm$ 0.223 χ^2 /NDF: 2215582.4/72

In: 1911.505 $\pm$ 0.224 χ^2 /NDF:685264.8/57

Out: 1913.919 $\pm$ 0.221 χ^2 /NDF:1626464.4/62

All: 1912.732 $\pm$ 0.157 χ^2 /NDF: 2311788.1/12

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -575.562 ± 1065.235 $\chi^2/\text{NDF}: 38.6/34$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 34.862 ± 85.392 $\chi^2/\text{NDF}: 42.7/37$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

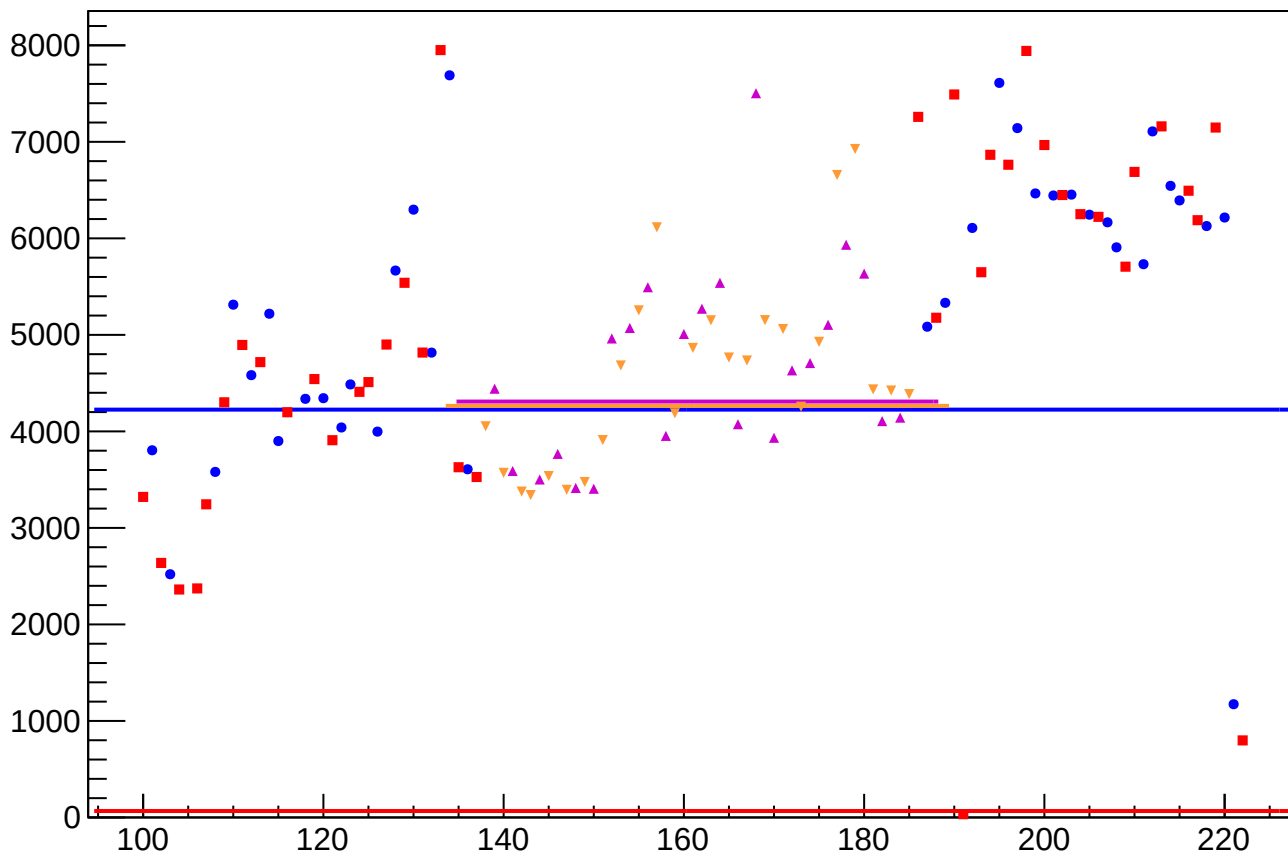
Right: 30.965 ± 85.119 $\chi^2/\text{NDF}: 81.6/72$

In: -360.705 ± 749.107 $\chi^2/\text{NDF}: 55.6/57$

Out: 29.671 ± 85.093 $\chi^2/\text{NDF}: 70.4/62$

All: 24.698 ± 84.549 $\chi^2/\text{NDF}: 126.2/120$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4225.495 $\pm$ 0.753 χ^2 /NDF: 6790444.8/34

Left Out: 4264.433 $\pm$ 0.720 χ^2 /NDF: 1354900.8/24

Right Out: 66.736 $\pm$ 0.060 χ^2 /NDF: 38752767.1/37

Left In: 4309.034 $\pm$ 0.745 χ^2 /NDF: 1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2 /NDF: 2661888.1/47

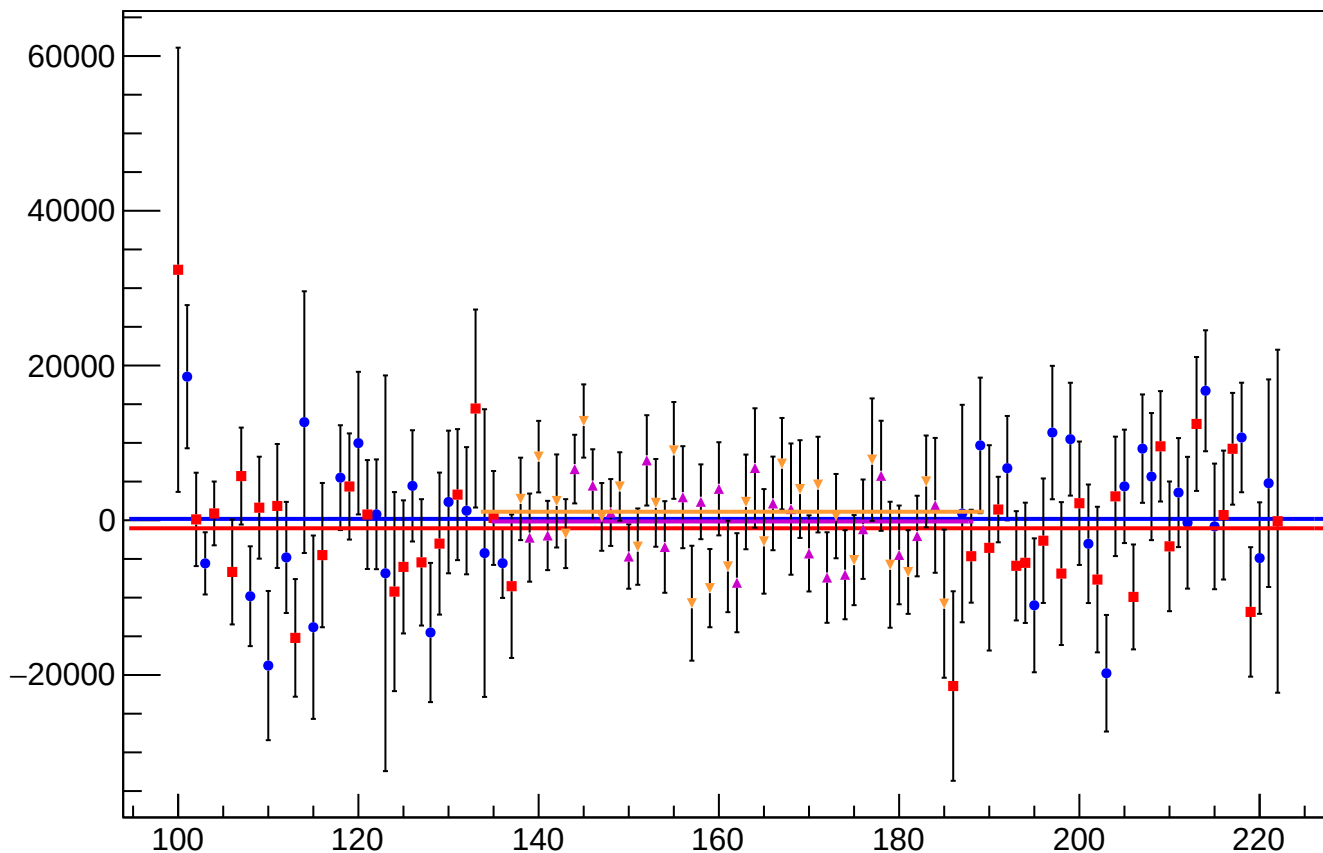
Right: 93.289 $\pm$ 0.060 χ^2 /NDF: 75832174.8/72

In: 4267.721 $\pm$ 0.530 χ^2 /NDF: 8101795.4/57

Out: 96.081 $\pm$ 0.060 χ^2 /NDF: 73894676.8/62

All: 149.223 $\pm$ 0.060 χ^2 /NDF: 143229743.2/119

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 176.647 $\pm$ 1303.598 χ^2 /NDF: 45.9/34

Left Out: 1102.204 $\pm$ 1126.663 χ^2 /NDF: 28.6/24

Right Out: -1036.874 $\pm$ 1220.630 χ^2 /NDF: 27.4/37

Left In: -158.683 $\pm$ 1161.507 χ^2 /NDF: 15.5/22

Left: 490.957 $\pm$ 808.709 χ^2 /NDF: 44.7/47

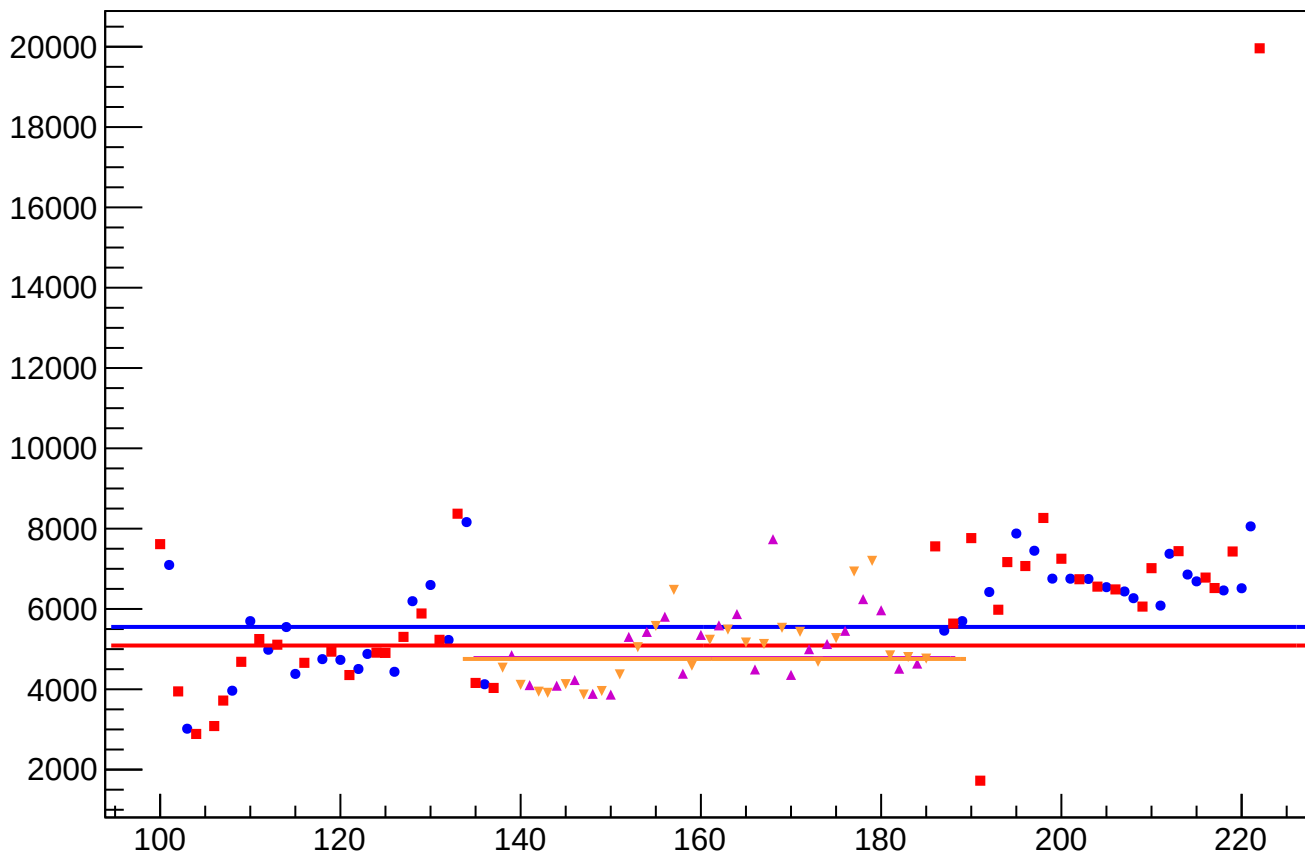
Right: -469.957 $\pm$ 891.004 χ^2 /NDF: 73.8/72

In: -10.283 $\pm$ 867.211 χ^2 /NDF: 61.5/57

Out: 118.160 $\pm$ 827.900 χ^2 /NDF: 57.6/62

All: 56.916 $\pm$ 598.829 χ^2 /NDF: 119.1/120

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5552.645+/-0.922 χ^2/NDF : 2269998.1/34

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 5089.813+/-0.861 χ^2/NDF : 5067268.8/37

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

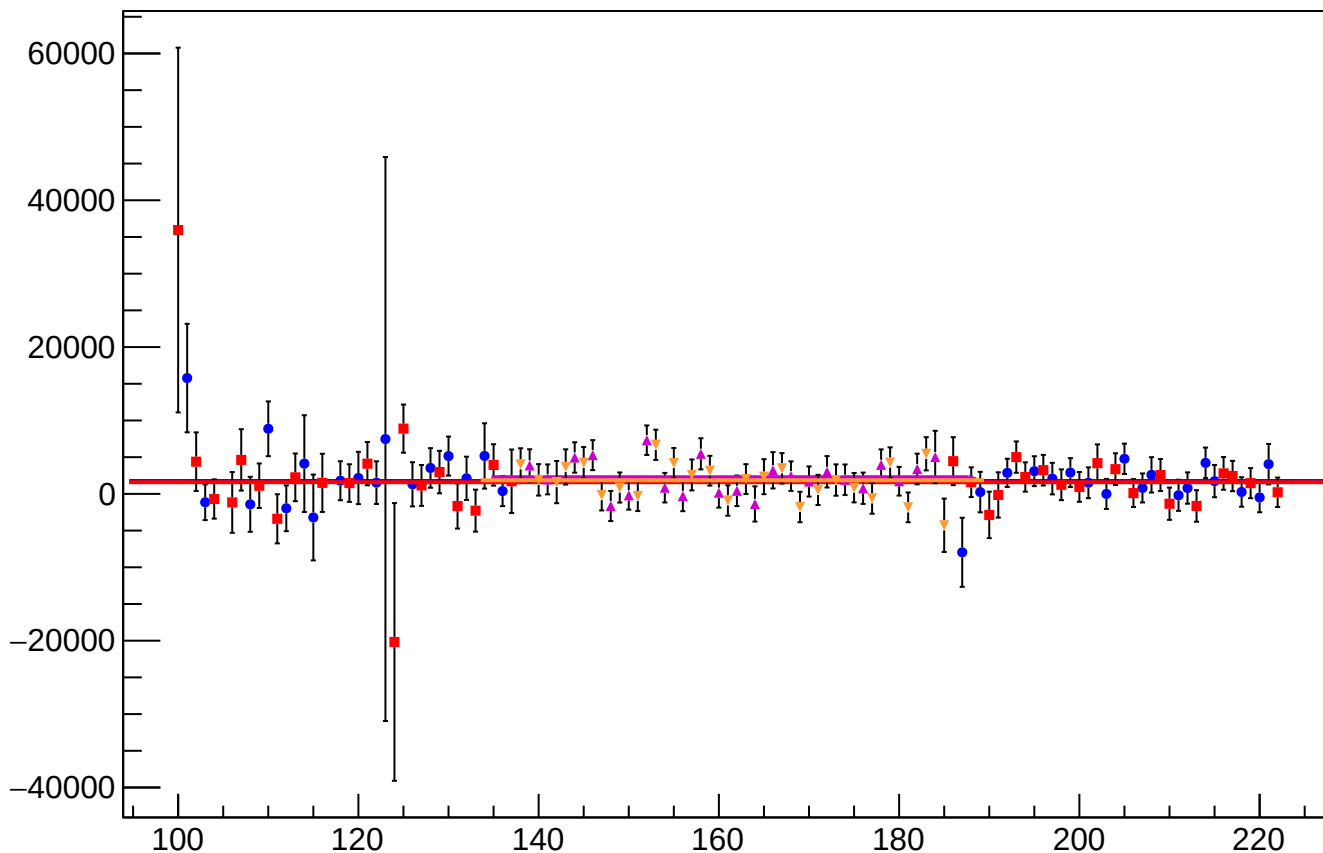
Right: 5305.363+/-0.629 χ^2/NDF : 7471964.0/72

In: 5120.725+/-0.613 χ^2/NDF : 3614151.0/57

Out: 4909.715+/-0.585 χ^2/NDF : 6101917.9/62

All: 5010.188+/-0.423 χ^2/NDF : 9778097.1/12

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1745.120+/-429.795 χ^2/NDF : 28.7/34

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1591.796+/-422.370 χ^2/NDF : 31.3/37

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

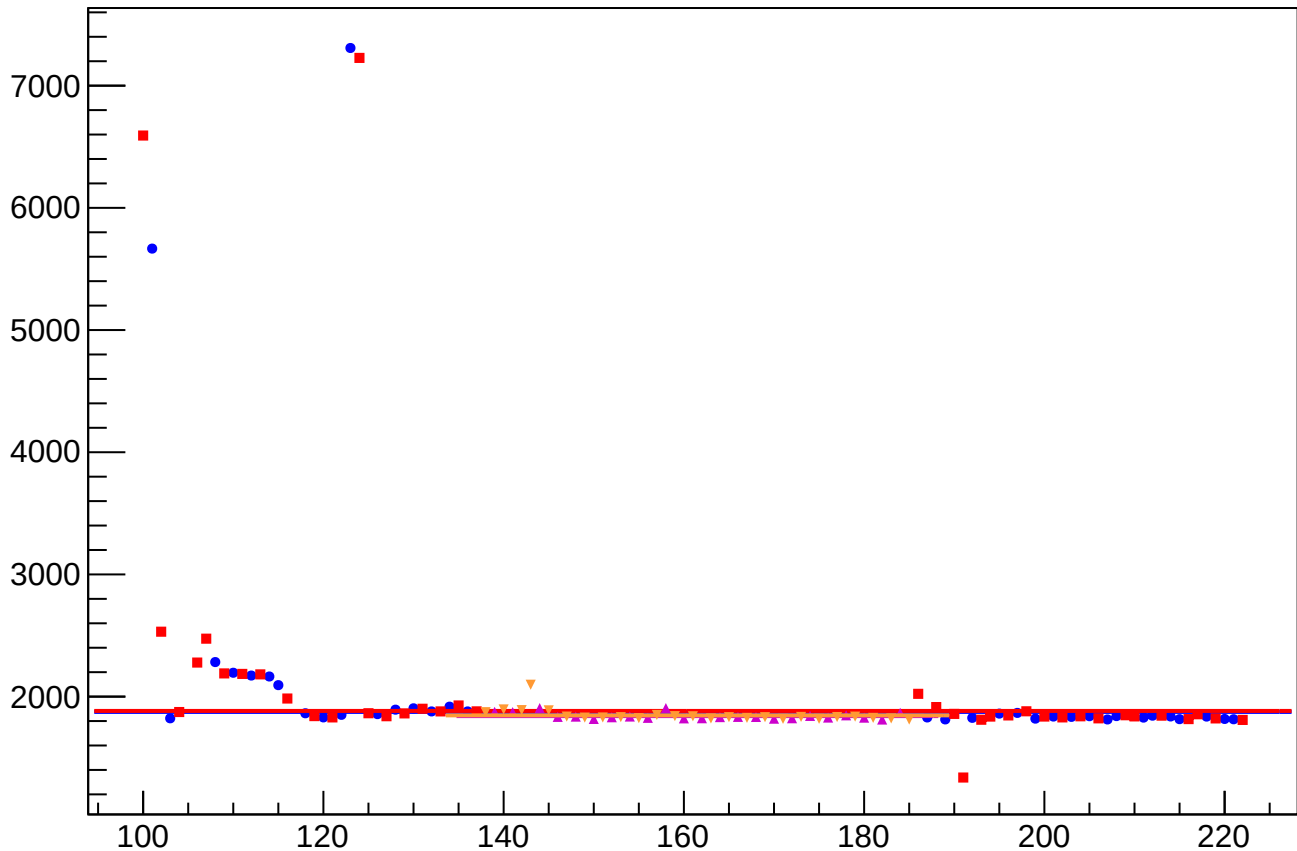
Right: 1667.122+/-301.251 χ^2/NDF : 60.0/72

In: 1999.639+/-308.037 χ^2/NDF :56.3/57

Out: 1721.513+/-301.657 χ^2/NDF :61.5/62

All: 1857.666+/-215.524 χ^2/NDF : 118.2/120

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1874.822 $\pm$ 0.304 χ^2 /NDF: 646912.4/34

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1882.844 $\pm$ 0.299 χ^2 /NDF: 484333.6/37

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

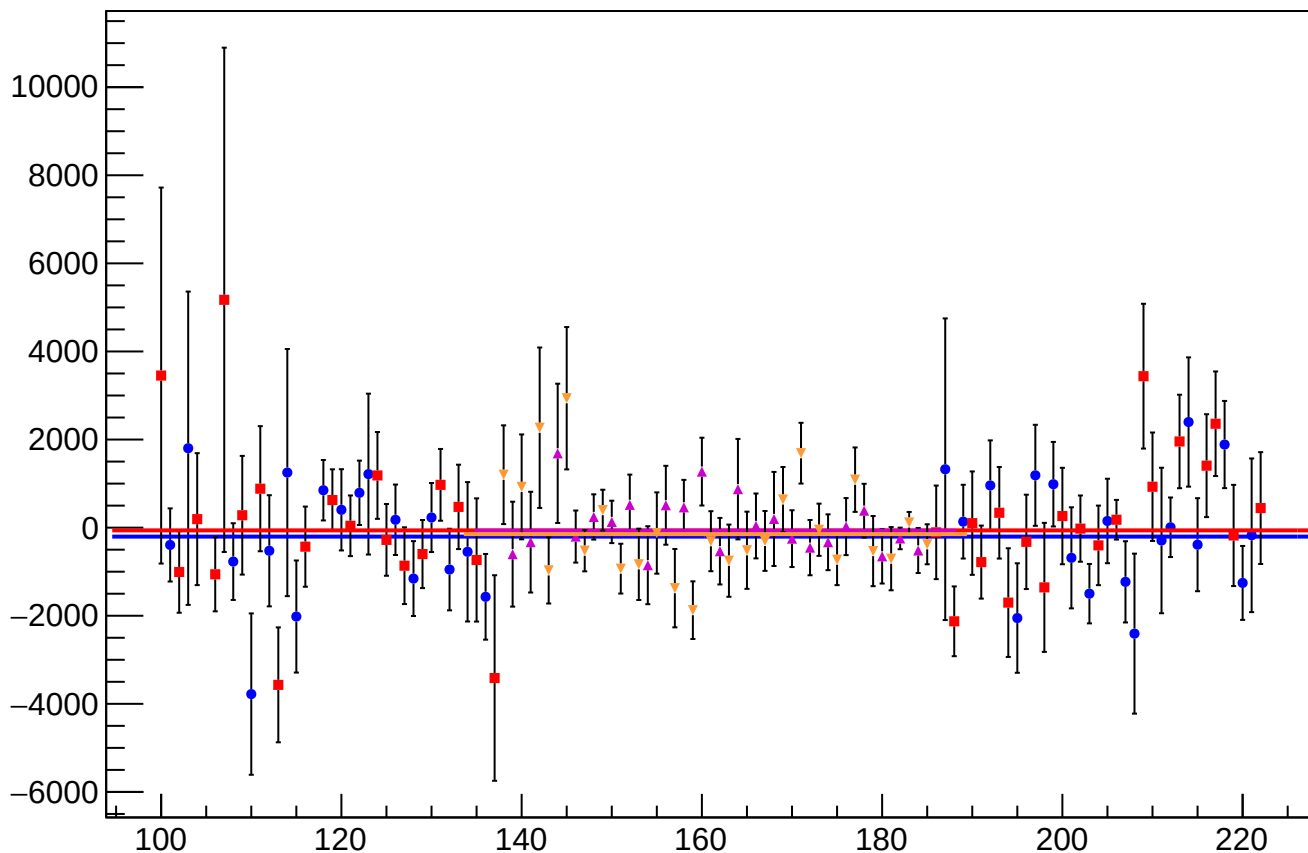
Right: 1878.903 $\pm$ 0.213 χ^2 /NDF: 1131600.4/72

In: 1858.150 $\pm$ 0.218 χ^2 /NDF: 659840.1/57

Out: 1865.088 $\pm$ 0.213 χ^2 /NDF: 518850.5/62

All: 1861.692 $\pm$ 0.152 χ^2 /NDF: 1179208.6/12

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -203.307 ± 170.603 χ^2/NDF : 39.6/34

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -61.842 ± 158.063 χ^2/NDF : 45.7/37

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

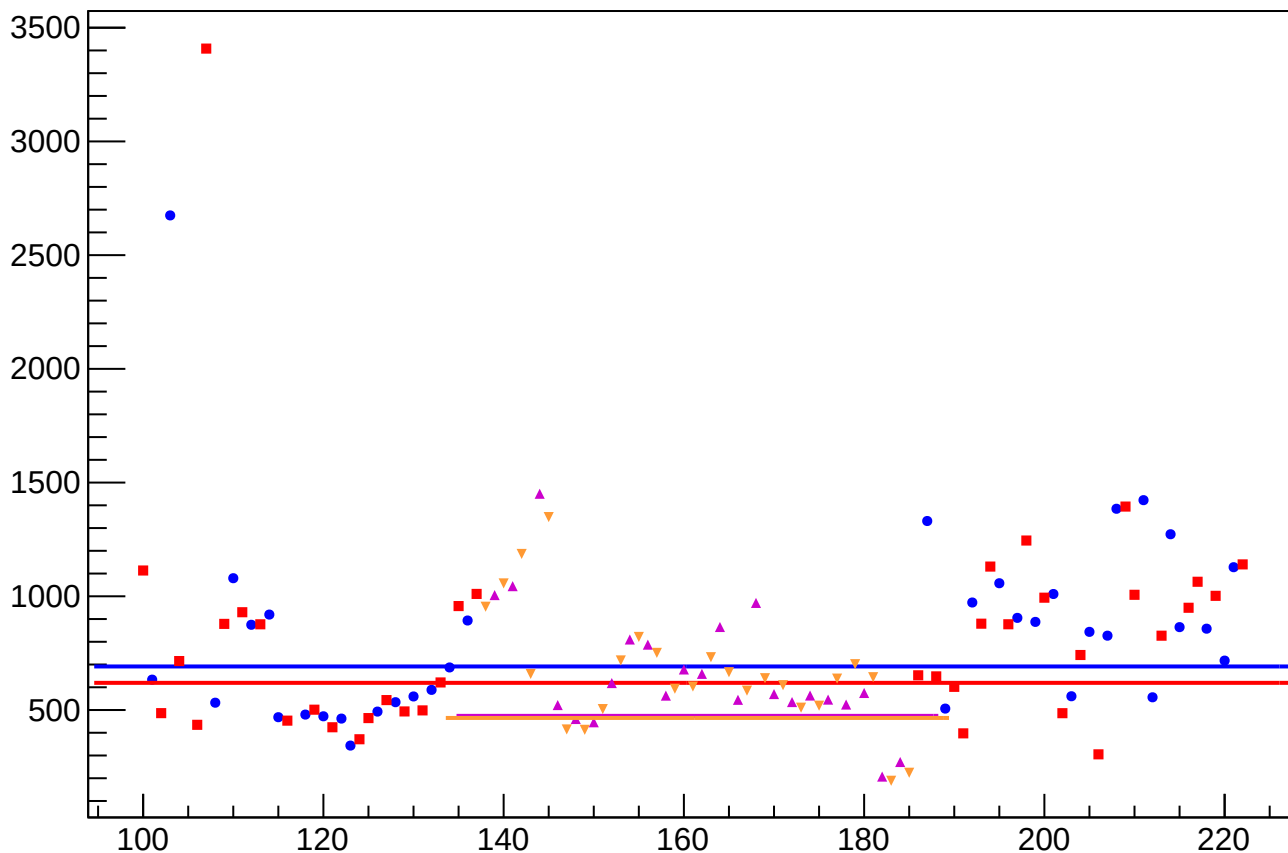
Right: -127.185 ± 115.947 χ^2/NDF : 85.6/72

In: -117.450 ± 101.548 χ^2/NDF : 52.3/57

Out: -115.212 ± 96.570 χ^2/NDF : 83.5/62

All: -116.275 ± 69.979 χ^2/NDF : 135.8/120

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 691.487+/-0.121 χ^2/NDF : 4119657.0/34

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 619.431+/-0.112 χ^2/NDF : 5787858.4/37

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

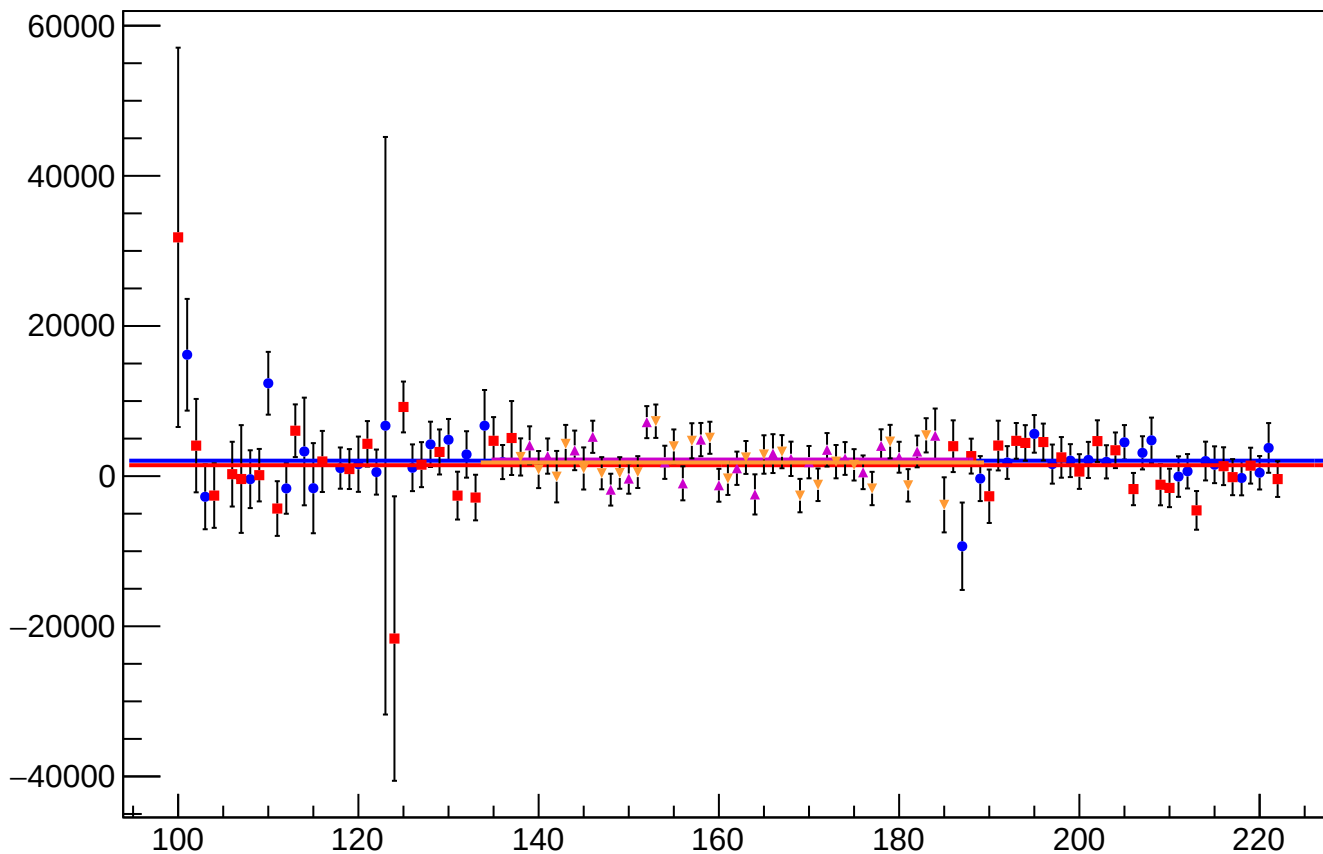
Right: 652.713+/-0.082 χ^2/NDF : 10099495.6/72

In: 551.224+/-0.072 χ^2/NDF : 12386403.2/57

Out: 522.695+/-0.068 χ^2/NDF : 14069264.0/62

All: 536.243+/-0.049 χ^2/NDF : 26538560.4/12

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2059.088 $\pm$ 487.714 χ^2 /NDF: 27.5/34

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1455.653 $\pm$ 482.786 χ^2 /NDF: 41.4/37

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

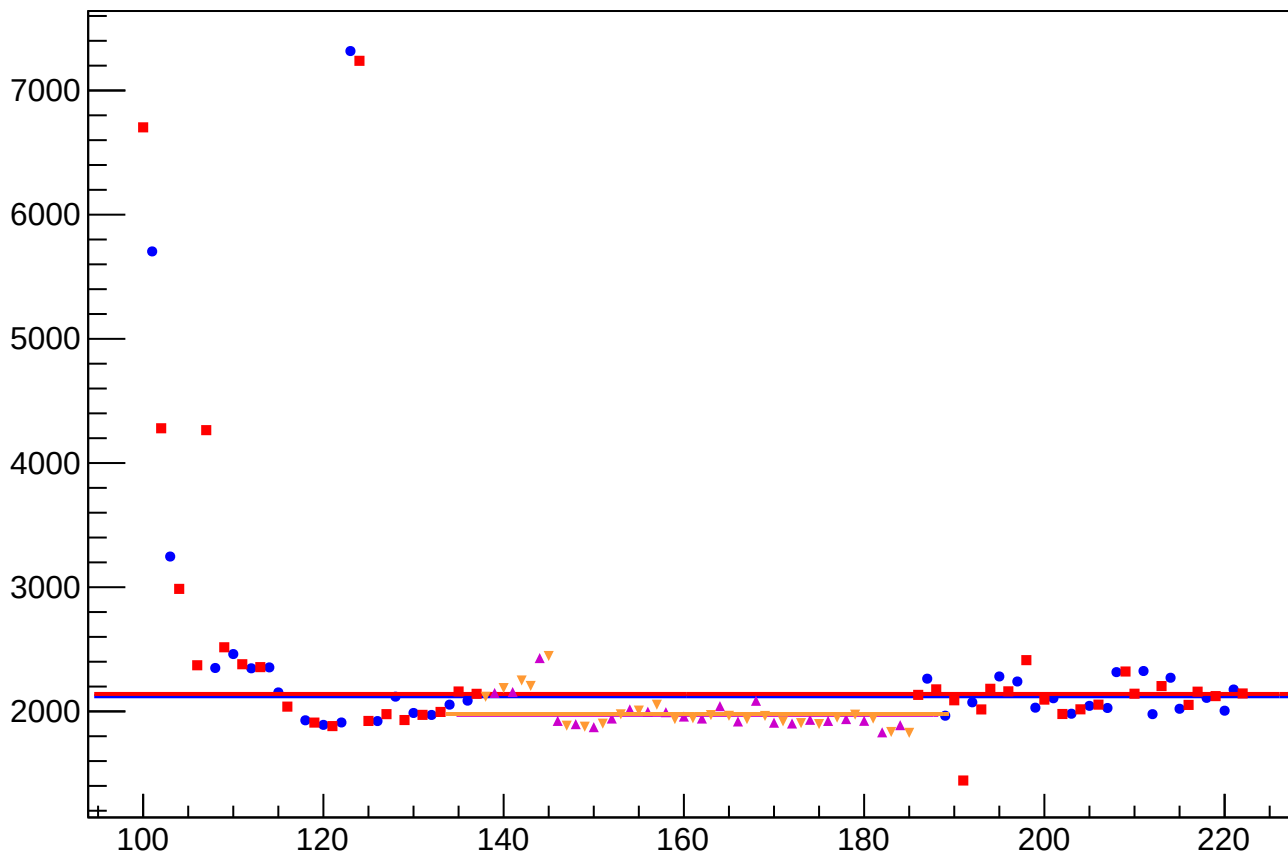
Right: 1754.306 $\pm$ 343.110 χ^2 /NDF: 69.6/72

In: 2135.718 $\pm$ 339.932 χ^2 /NDF:52.9/57

Out: 1647.685 $\pm$ 334.051 χ^2 /NDF:73.8/62

All: 1887.443 $\pm$ 238.262 χ^2 /NDF: 127.7/120

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2121.782 $\pm$ 0.345 χ^2 /NDF: 793970.2/34

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2140.534 $\pm$ 0.341 χ^2 /NDF: 954405.1/37

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

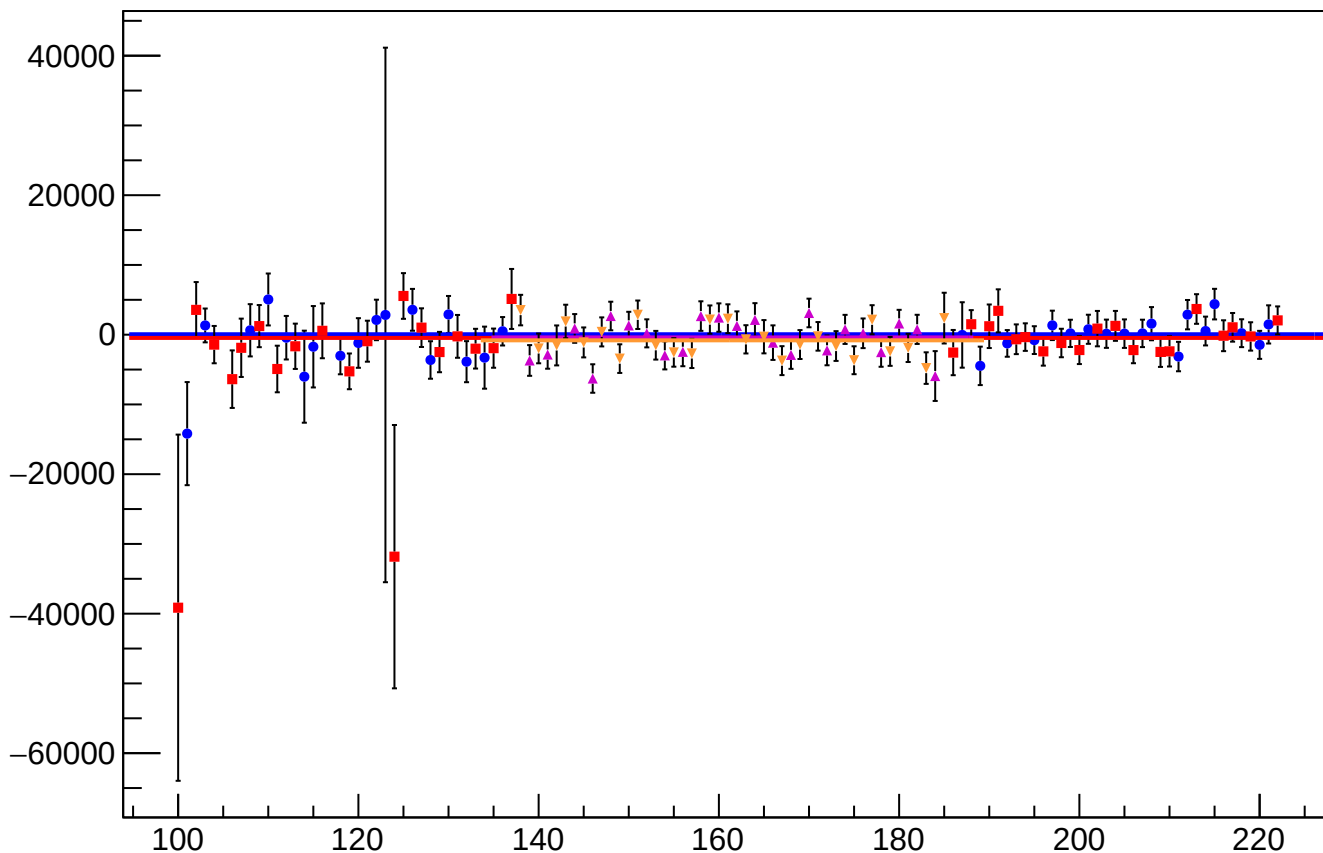
Right: 2131.253 $\pm$ 0.243 χ^2 /NDF: 1749868.6/72

In: 2044.849 $\pm$ 0.240 χ^2 /NDF:1007202.9/57

Out: 2056.334 $\pm$ 0.236 χ^2 /NDF:1210412.8/62

All: 2050.692 $\pm$ 0.168 χ^2 /NDF: 2218777.2/12

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 63.195+/-426.866 χ^2/NDF : 28.7/34

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -463.196+/-419.273 χ^2/NDF : 35.1/37

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

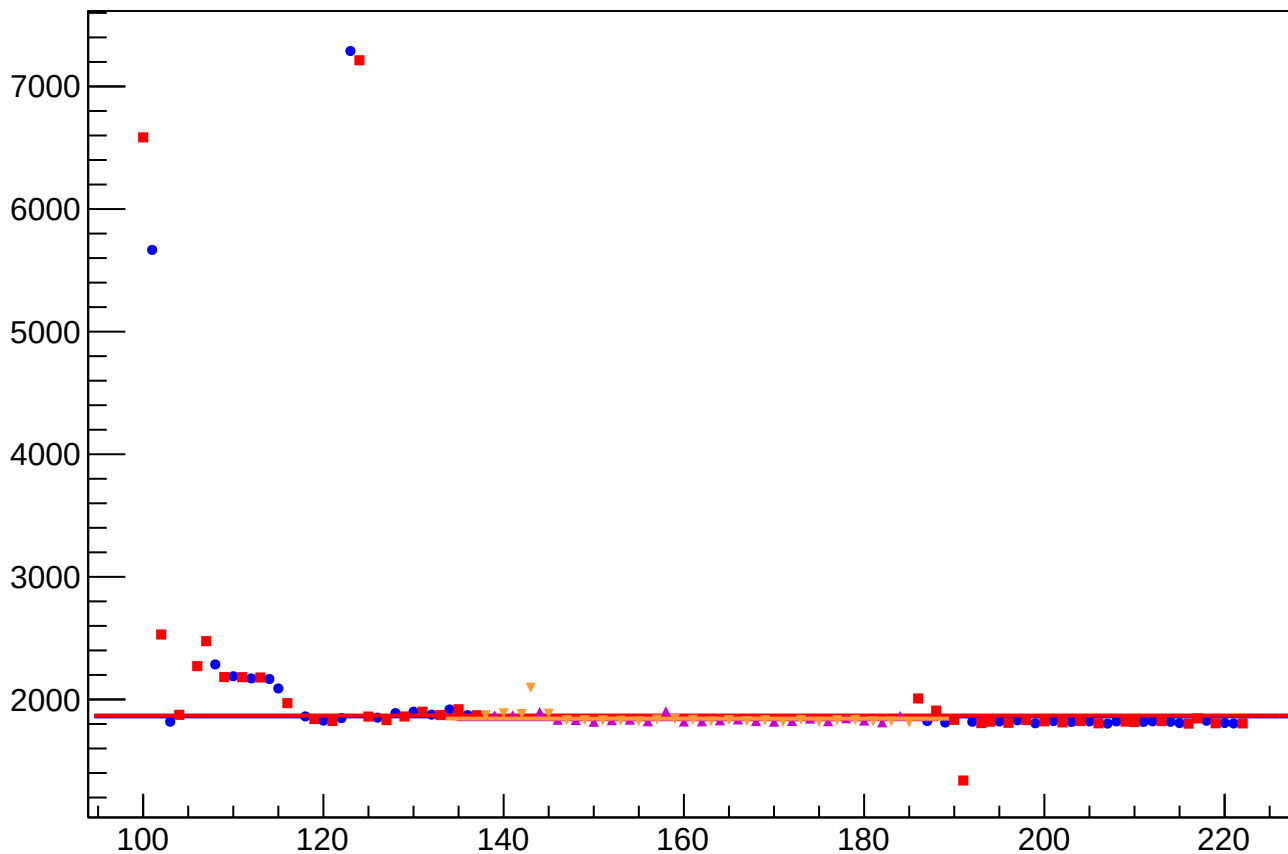
Right: -204.724+/-299.119 χ^2/NDF : 64.6/72

In: -160.151+/-306.798 χ^2/NDF : 63.6/57

Out: -631.334+/-300.295 χ^2/NDF : 63.4/62

All: -400.789+/-214.603 χ^2/NDF : 128.2/120

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1861.834 $\pm$ 0.302 χ^2 /NDF: 656455.2/34

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1868.871 $\pm$ 0.296 χ^2 /NDF: 492572.3/37

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

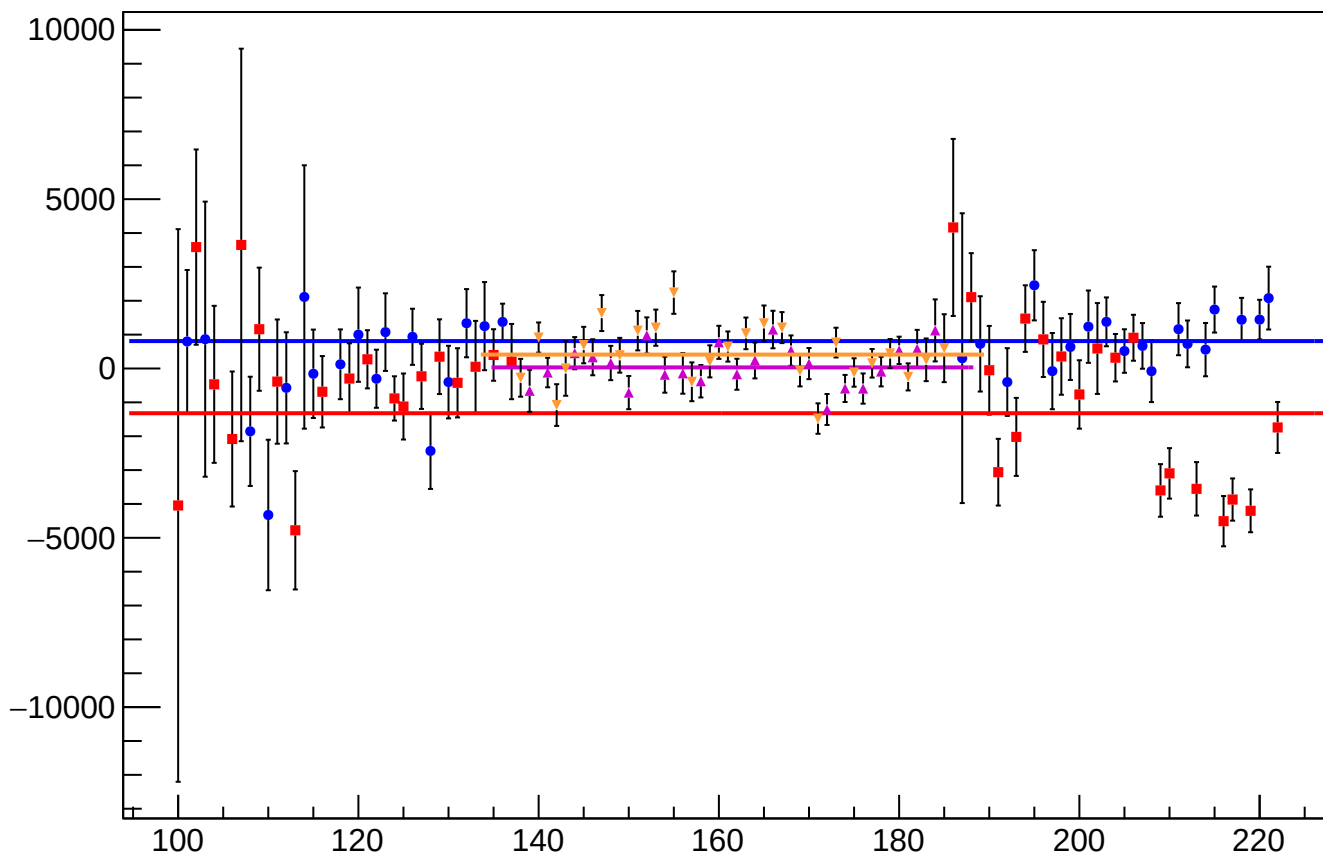
Right: 1865.416 $\pm$ 0.212 χ^2 /NDF: 1149304.2/72

In: 1850.607 $\pm$ 0.217 χ^2 /NDF: 665652.0/57

Out: 1856.635 $\pm$ 0.212 χ^2 /NDF: 522937.3/62

All: 1853.686 $\pm$ 0.152 χ^2 /NDF: 1188983.7/12

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 809.159+/-156.899 χ^2/NDF : 35.6/34

Left Out: 411.072+/-100.456 χ^2/NDF : 61.2/24

Right Out: -1320.986+/-159.655 χ^2/NDF : 154.7/37

Left In: 32.456+/-102.403 χ^2/NDF : 32.7/22

Left: 225.398+/-71.712 χ^2/NDF : 100.9/47

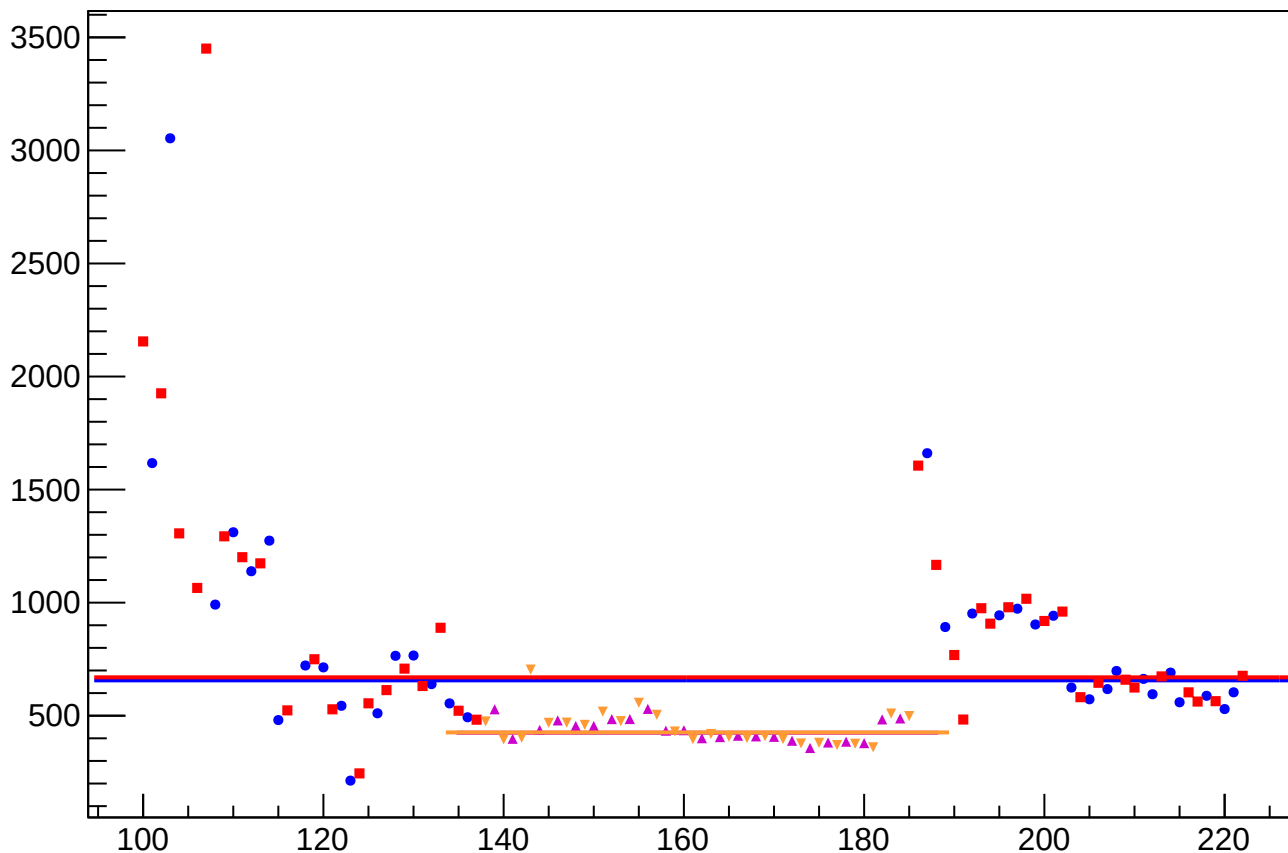
Right: -237.369+/-111.906 χ^2/NDF : 280.9/72

In: 264.478+/-85.755 χ^2/NDF : 85.5/57

Out: -80.168+/-85.025 χ^2/NDF : 300.2/62

All: 90.683+/-60.378 χ^2/NDF : 393.9/120

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.348 $\pm$ 0.111 χ^2 /NDF: 3431580.1/34

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 669.678 $\pm$ 0.113 χ^2 /NDF: 4502049.3/37

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

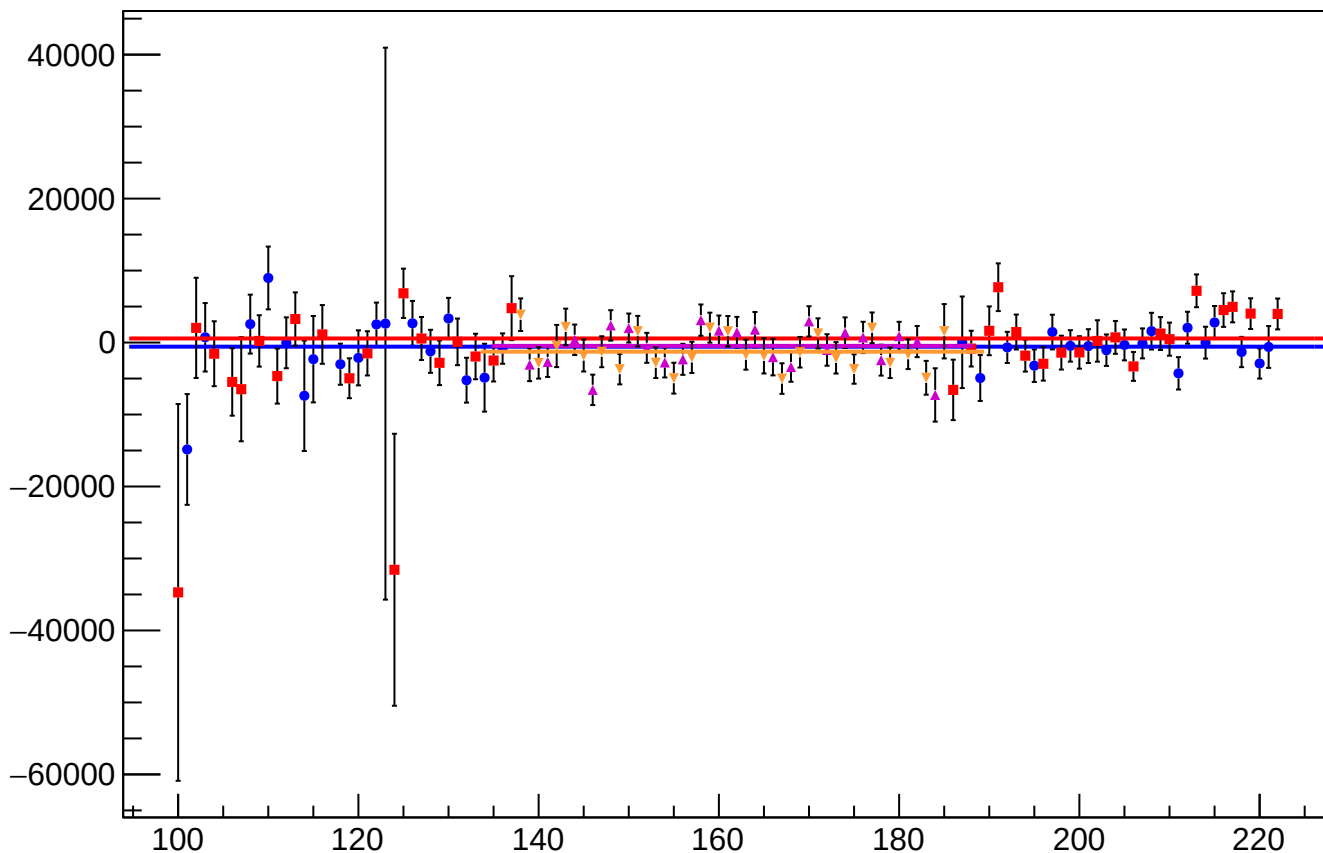
Right: 662.897 $\pm$ 0.079 χ^2 /NDF: 7940721.7/72

In: 493.856 $\pm$ 0.061 χ^2 /NDF: 6882088.7/57

Out: 495.131 $\pm$ 0.060 χ^2 /NDF: 8572041.8/62

All: 494.499 $\pm$ 0.043 χ^2 /NDF: 15454353.3/12

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -573.743+/-467.195 χ^2/NDF : 30.3/34

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: 567.793+/-465.144 χ^2/NDF : 59.0/37

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

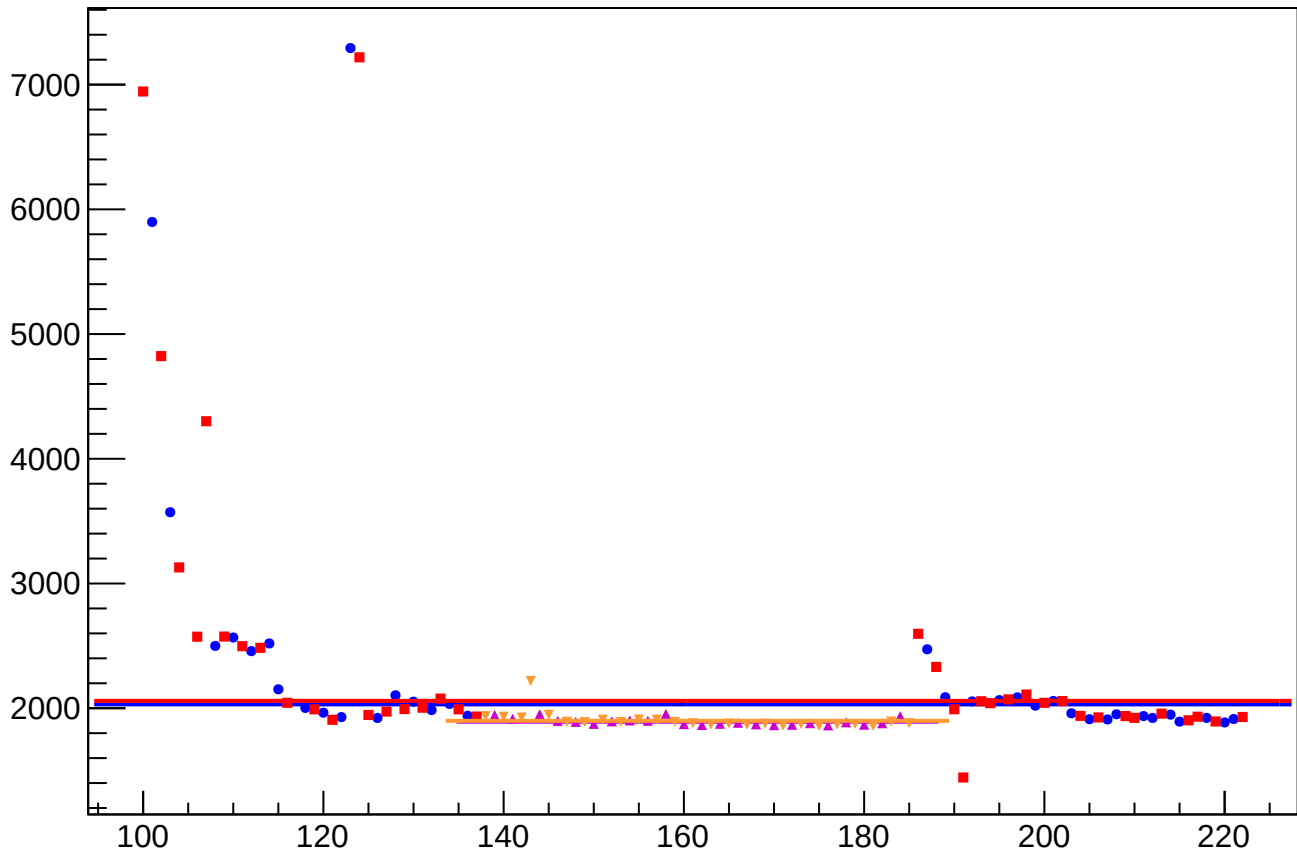
Right: -0.463+/-329.629 χ^2/NDF : 92.3/72

In: -516.573+/-325.572 χ^2/NDF :62.9/57

Out: -394.328+/-320.874 χ^2/NDF :98.0/62

All: -454.562+/-228.535 χ^2/NDF : 160.9/120

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2030.697+/-0.330 χ^2/NDF : 924452.7/34

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2059.061+/-0.329 χ^2/NDF : 1165332.3/37

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

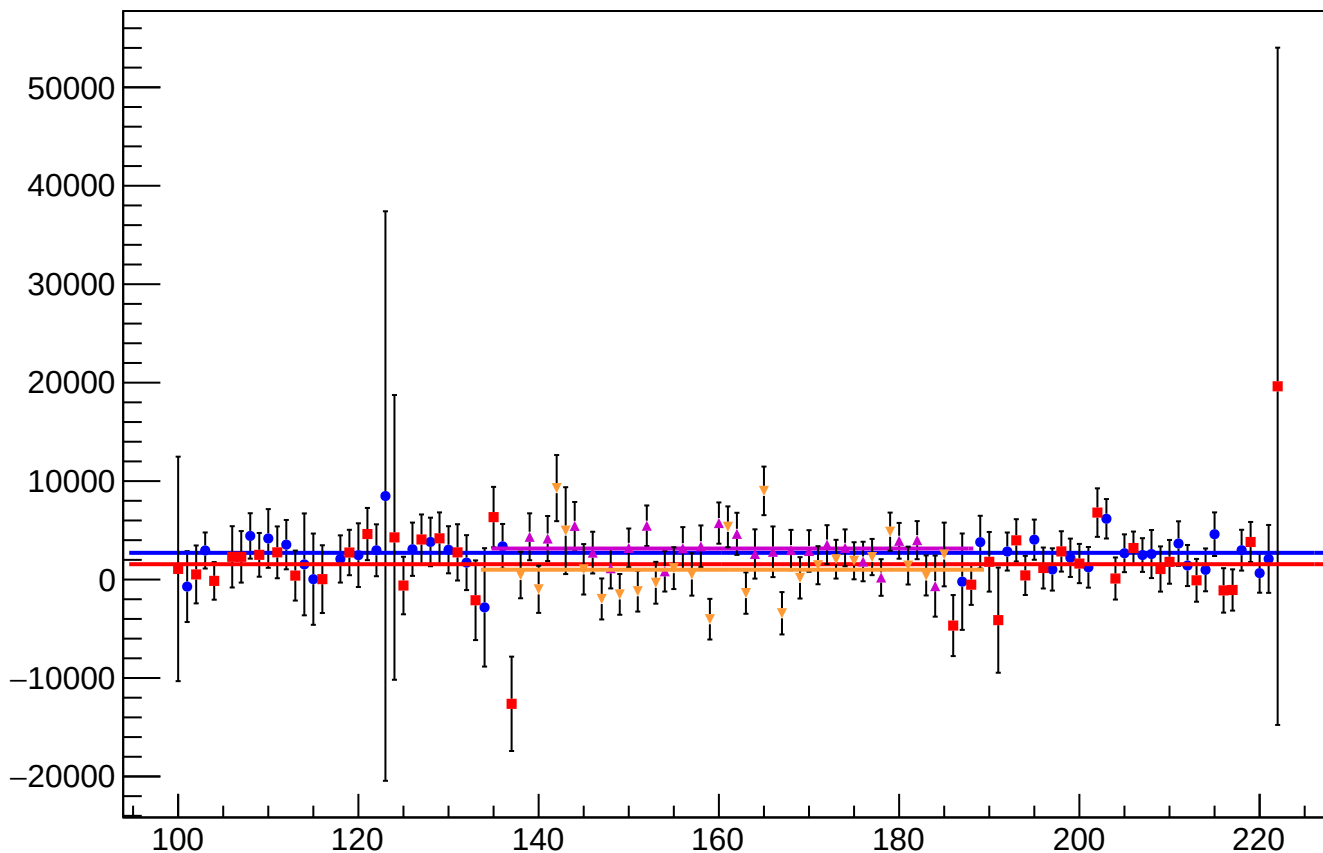
Right: 2044.941+/-0.233 χ^2/NDF : 2093487.3/72

In: 1959.196+/-0.230 χ^2/NDF : 1022942.3/57

Out: 1975.149+/-0.227 χ^2/NDF : 1328197.6/62

All: 1967.288+/-0.162 χ^2/NDF : 2353576.0/12

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2714.262 $\pm$ 408.180 χ^2 /NDF: 11.8/34

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF: 44.6/24

Right Out: 1559.722 $\pm$ 408.127 χ^2 /NDF: 37.5/37

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

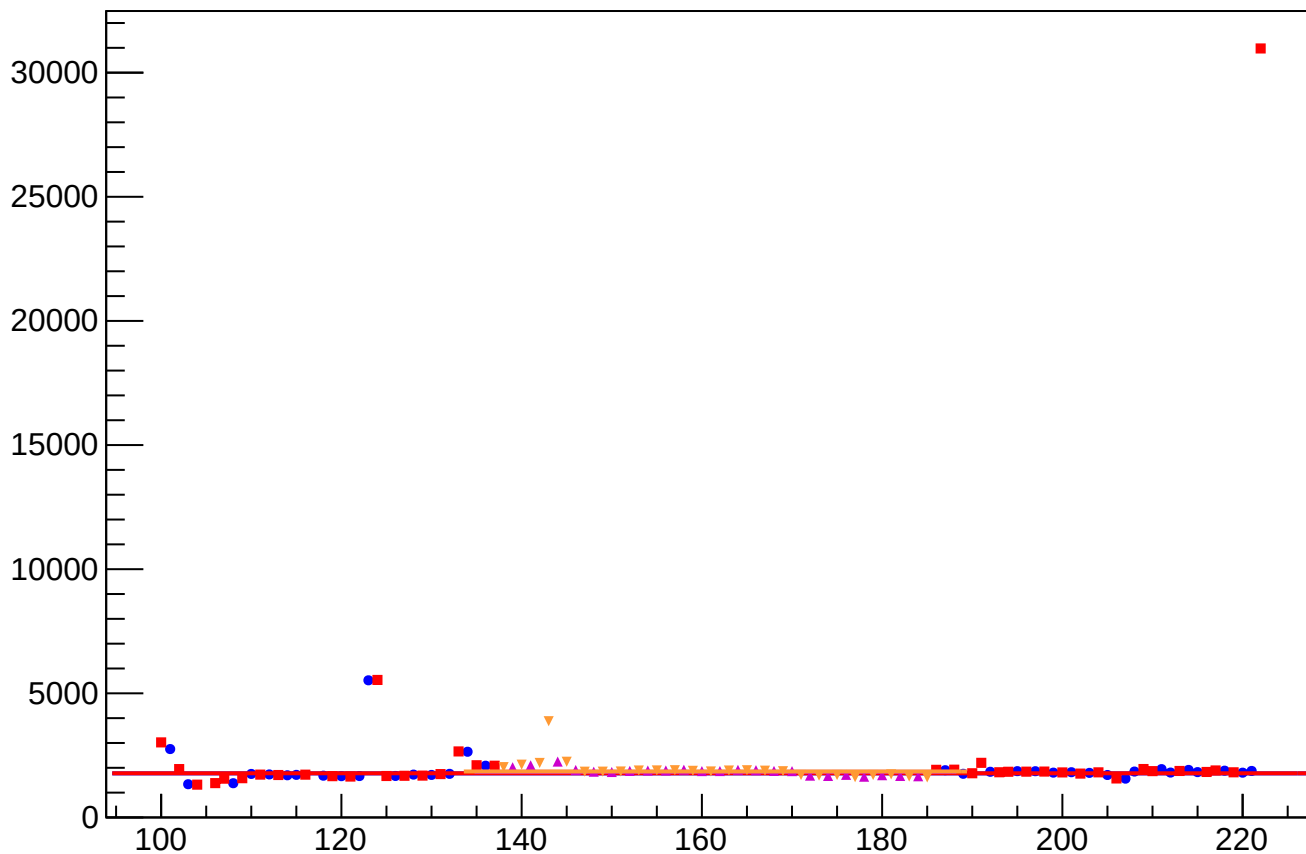
Right: 2136.916 $\pm$ 288.608 χ^2 /NDF: 53.3/72

In: 2915.445 $\pm$ 299.604 χ^2 /NDF: 24.2/57

Out: 1298.432 $\pm$ 297.715 χ^2 /NDF: 83.0/62

All: 2101.827 $\pm$ 211.181 χ^2 /NDF: 121.8/120

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1774.636 $\pm$ 0.289 χ^2 /NDF: 525115.5/34

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1779.392 $\pm$ 0.289 χ^2 /NDF: 2021457.4/37

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

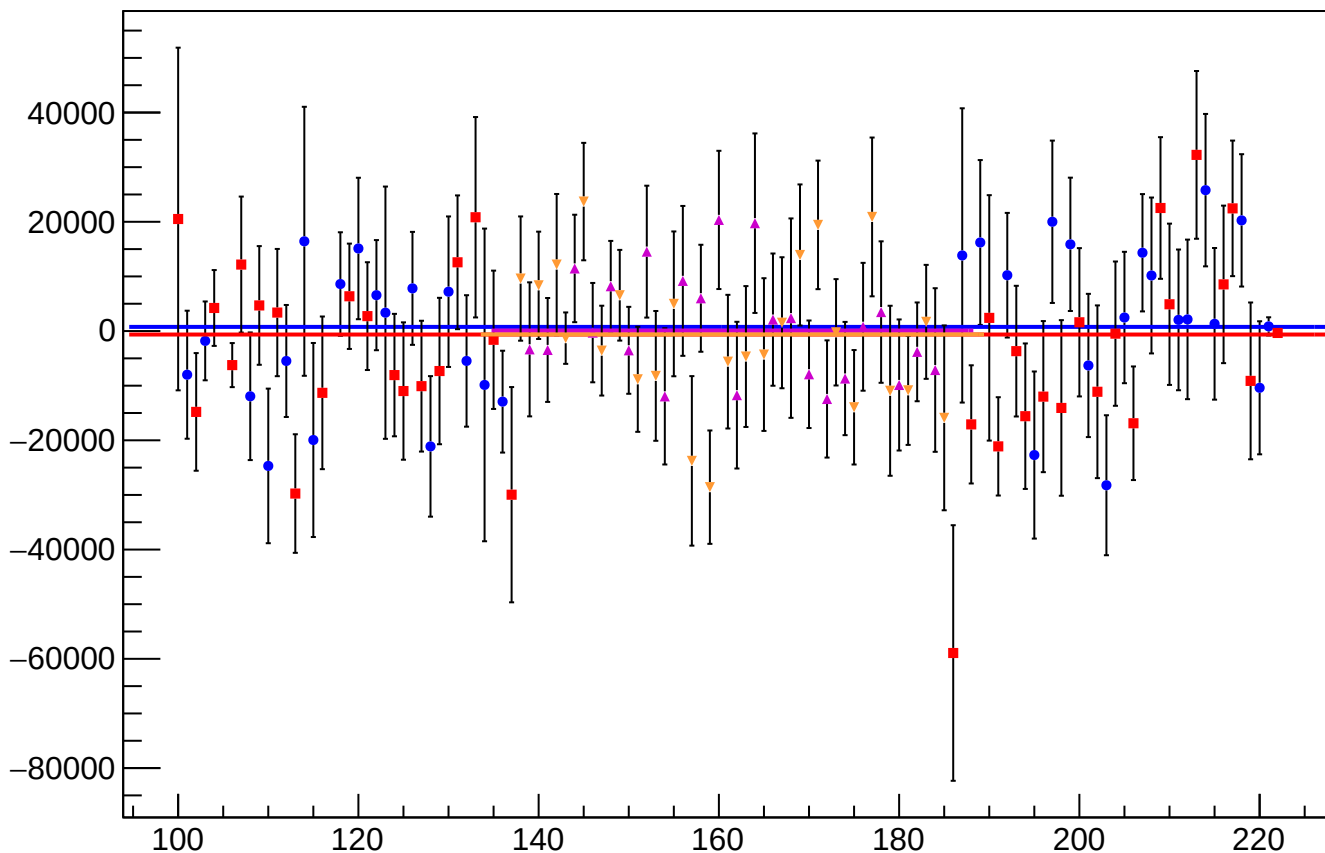
Right: 1777.015 $\pm$ 0.204 χ^2 /NDF: 2546708.7/72

In: 1803.471 $\pm$ 0.212 χ^2 /NDF: 747267.5/57

Out: 1813.344 $\pm$ 0.211 χ^2 /NDF: 2699994.6/62

All: 1808.439 $\pm$ 0.149 χ^2 /NDF: 3448355.1/12

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 761.530 $\pm$ 1312.920 χ^2 /NDF: 37.3/34

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -637.017 $\pm$ 520.860 χ^2 /NDF: 52.9/37

Left In: 93.334 $\pm$ 2293.826 χ^2 /NDF:14.6/22

Left: -299.532 $\pm$ 1536.638 χ^2 /NDF: 44.8/47

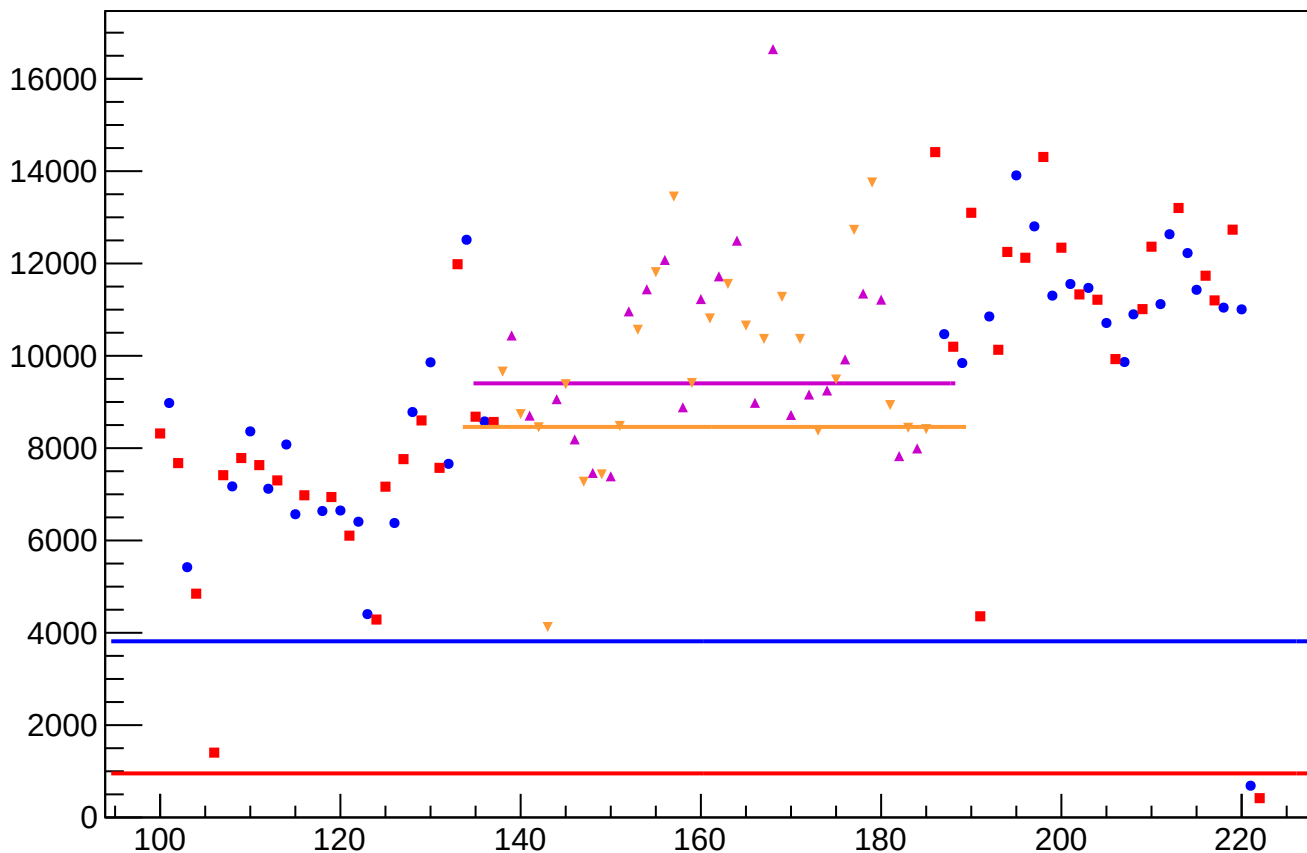
Right: -446.837 $\pm$ 484.152 χ^2 /NDF: 91.2/72

In: 596.642 $\pm$ 1139.471 χ^2 /NDF:52.0/57

Out: -635.966 $\pm$ 505.110 χ^2 /NDF:83.1/62

All: -433.535 $\pm$ 461.774 χ^2 /NDF: 136.0/120

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3815.850+/-0.928

χ^2/NDF : 21244783.4/34

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

Right: 1343.354+/-0.342 χ^2/NDF : 62382628.6/72

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

In: 5194.688+/-0.806 χ^2/NDF : 31326544.9/57

Right Out: 954.218+/-0.368

χ^2/NDF : 32928606.8/37

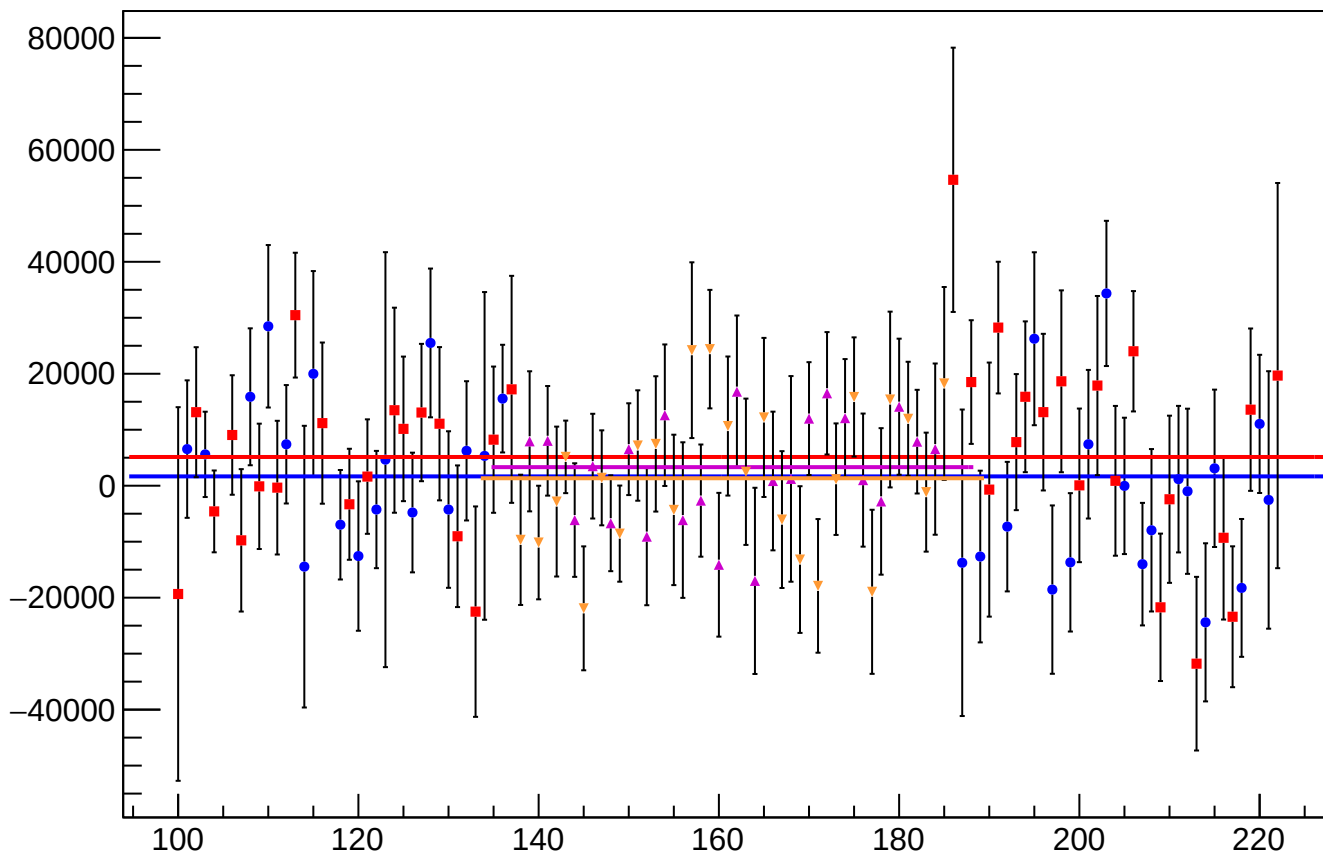
Out: 1401.269+/-0.357 χ^2/NDF : 60752341.3/62

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

All: 2024.262+/-0.327 χ^2/NDF : 110604474.0

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1664.786 $\pm$ 2193.344 χ^2 /NDF: 38.5/34

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF: 28.0/24

Right Out: 5132.284 $\pm$ 2118.931 χ^2 /NDF: 47.9/37

Left In: 3316.909 $\pm$ 2344.543 χ^2 /NDF: 13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2 /NDF: 42.2/47

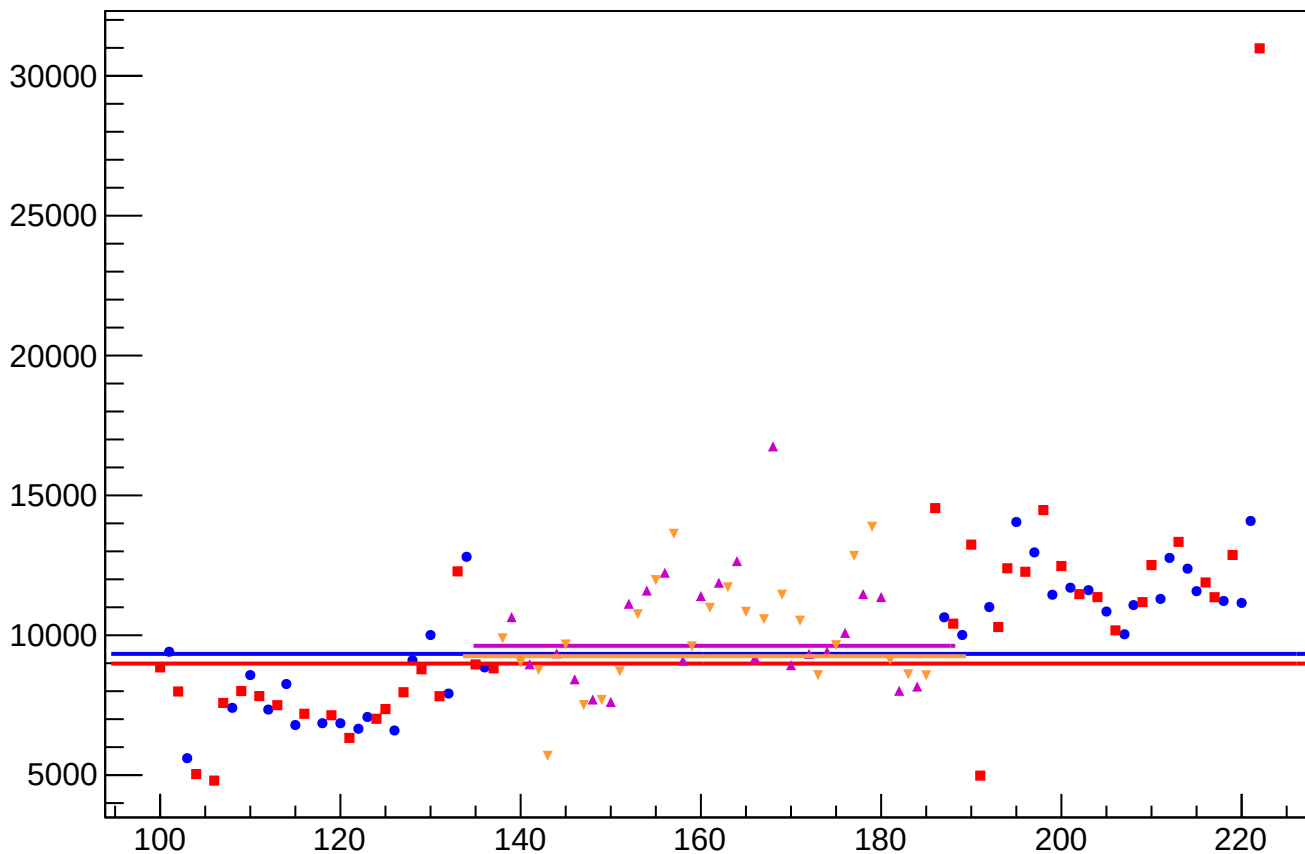
Right: 3458.352 $\pm$ 1523.939 χ^2 /NDF: 87.7/72

In: 2435.861 $\pm$ 1601.715 χ^2 /NDF: 52.5/57

Out: 3315.651 $\pm$ 1530.728 χ^2 /NDF: 77.5/62

All: 2895.683 $\pm$ 1106.633 χ^2 /NDF: 130.1/120

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9334.700+/-1.551 χ^2 /NDF: 2256478.8/34

Left Out: 9252.712+/-1.565 χ^2 /NDF:1597668.9/24

Right Out: 8988.298+/-1.498 χ^2 /NDF: 4021142.3/37

Left In: 9623.485+/-1.658 χ^2 /NDF:1069924.0/22

Left: 9427.467+/-1.138 χ^2 /NDF: 2694036.4/47

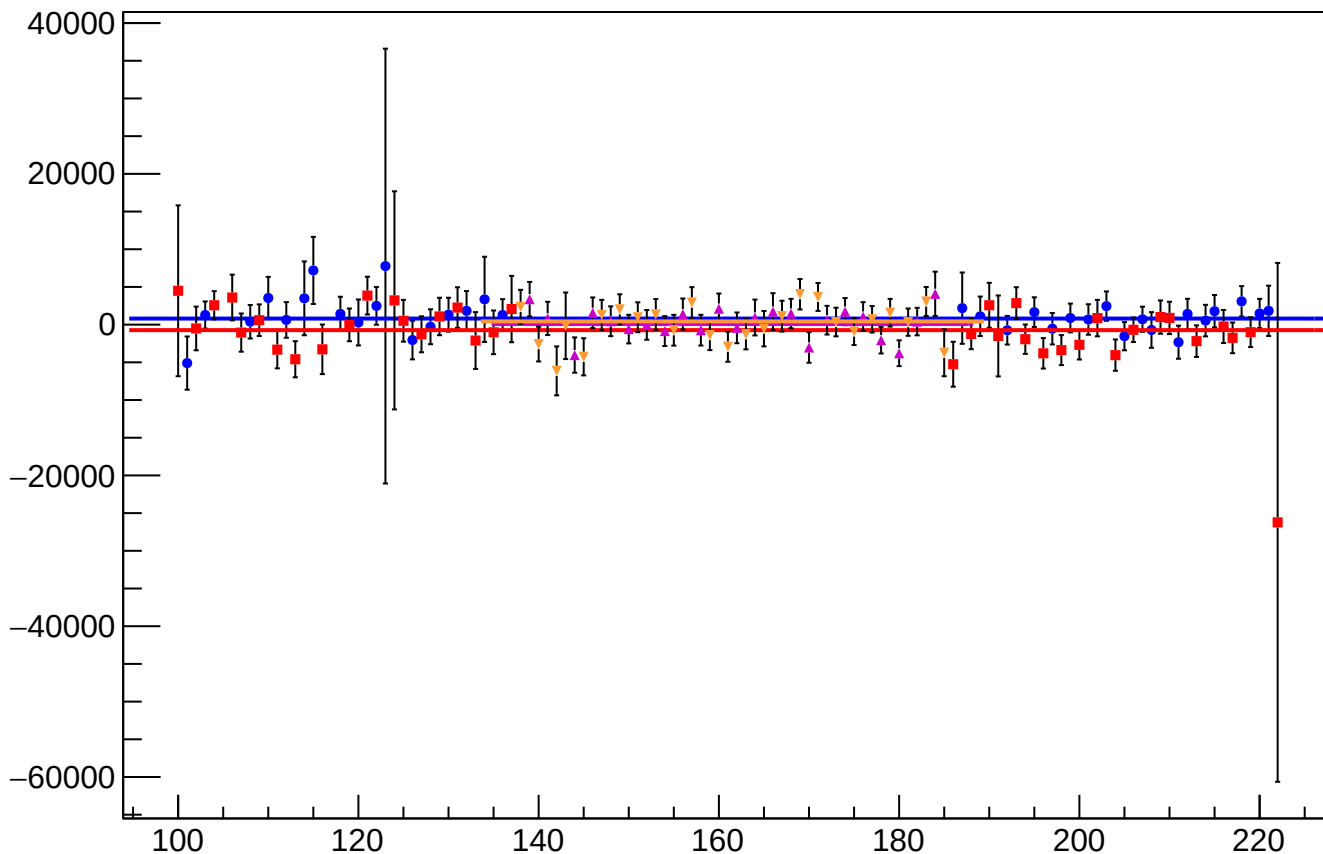
Right: 9155.510+/-1.078 χ^2 /NDF: 6303427.2/72

In: 9469.479+/-1.133 χ^2 /NDF:3342584.7/57

Out: 9114.710+/-1.082 χ^2 /NDF:5633703.1/62

All: 9284.052+/-0.782 χ^2 /NDF: 9027572.0/12

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 806.264+/-393.551 χ^2/NDF : 16.7/34

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -728.242+/-393.621 χ^2/NDF : 33.7/37

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

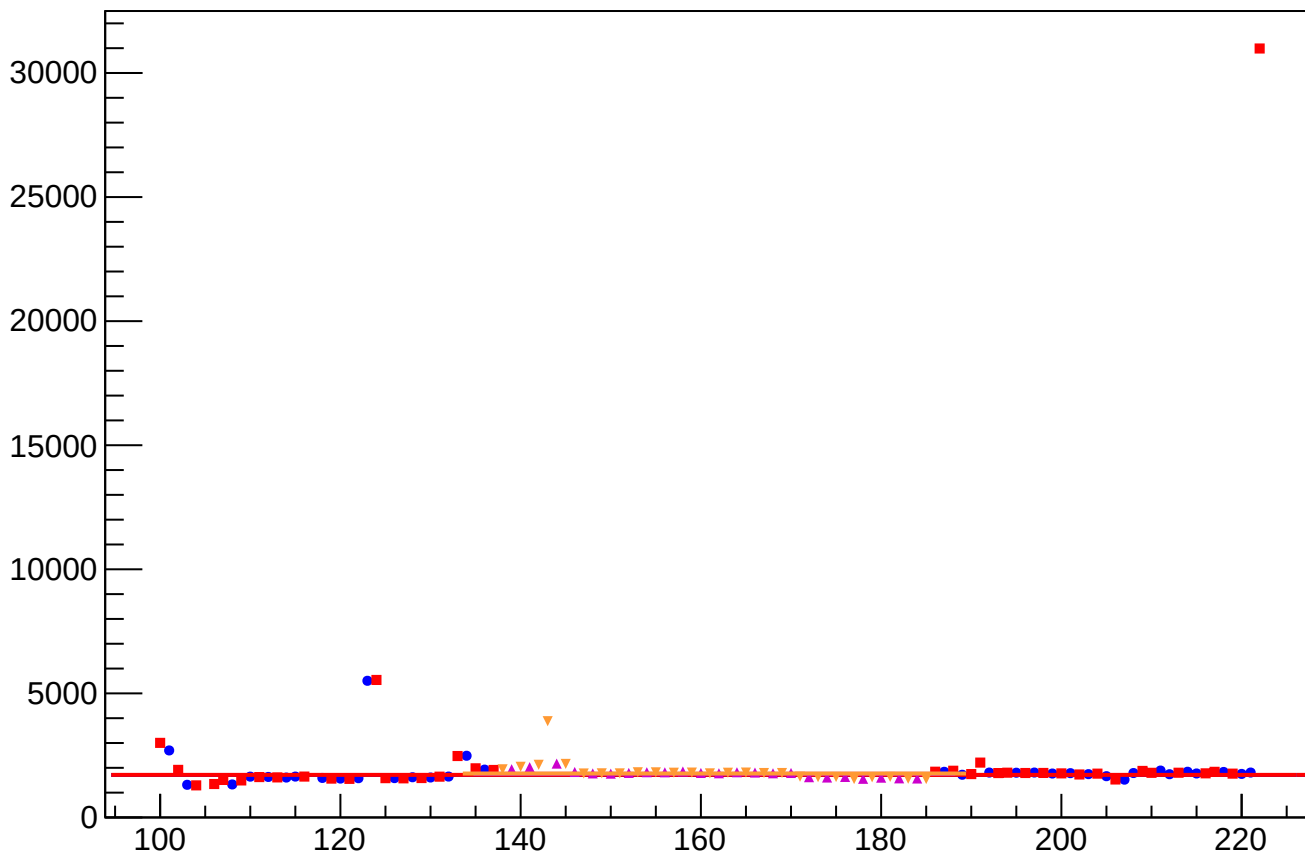
Right: 39.146+/-278.307 χ^2/NDF : 57.9/72

In: 472.294+/-287.801 χ^2/NDF : 39.2/57

Out: -181.898+/-286.039 χ^2/NDF : 66.4/62

All: 143.189+/-202.880 χ^2/NDF : 108.2/120

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1711.022 $\pm$ 0.278 χ^2 /NDF: 521822.3/34

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1715.849 $\pm$ 0.278 χ^2 /NDF: 2038865.2/37

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

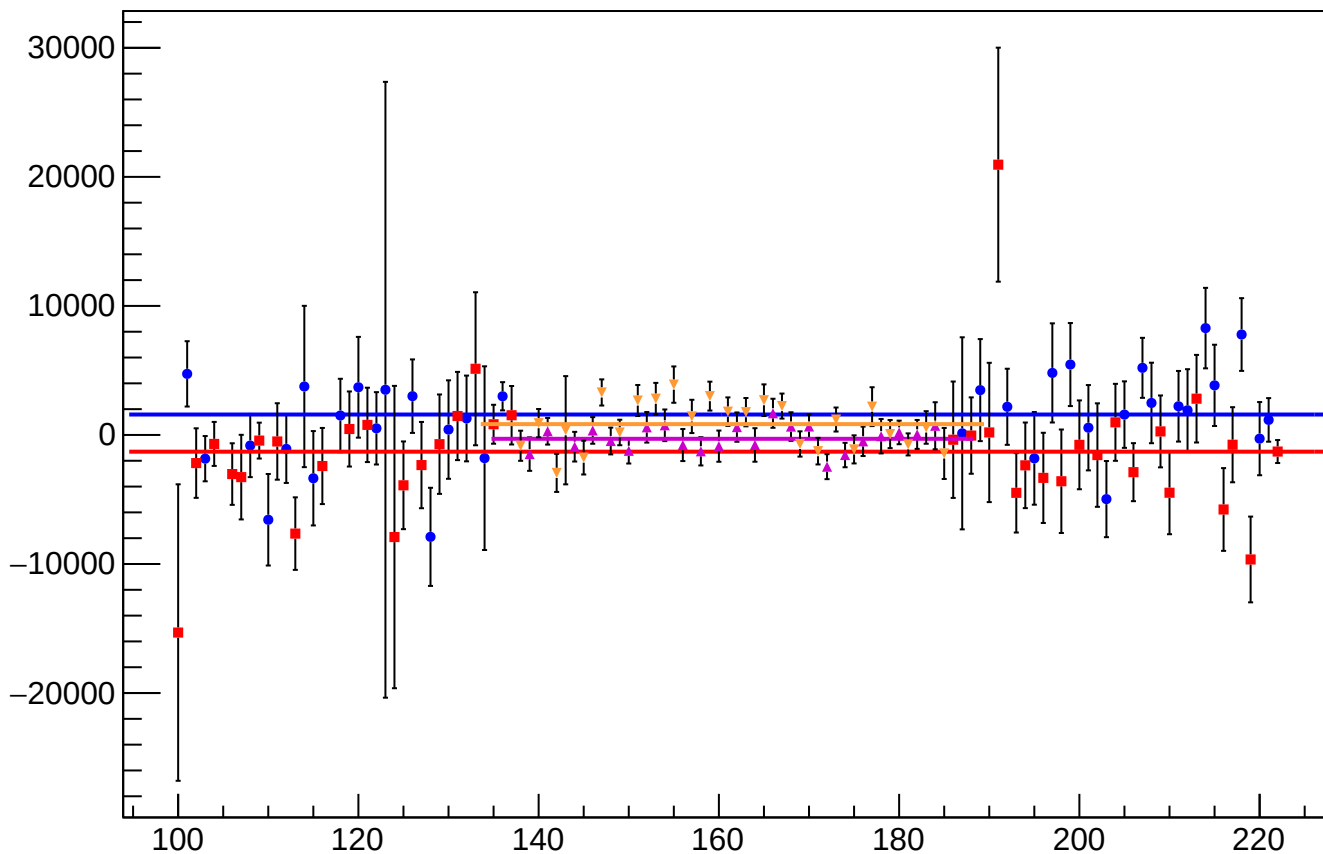
Right: 1713.435 $\pm$ 0.197 χ^2 /NDF: 2560837.9/72

In: 1732.236 $\pm$ 0.204 χ^2 /NDF: 757391.6/57

Out: 1741.586 $\pm$ 0.202 χ^2 /NDF: 2756519.3/62

All: 1736.940 $\pm$ 0.143 χ^2 /NDF: 3514972.7/12

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1583.980 $\pm$ 465.362 χ^2 /NDF: 44.9/34

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF: 54.4/24

Right Out: -1295.652 $\pm$ 416.858 χ^2 /NDF: 35.9/37

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

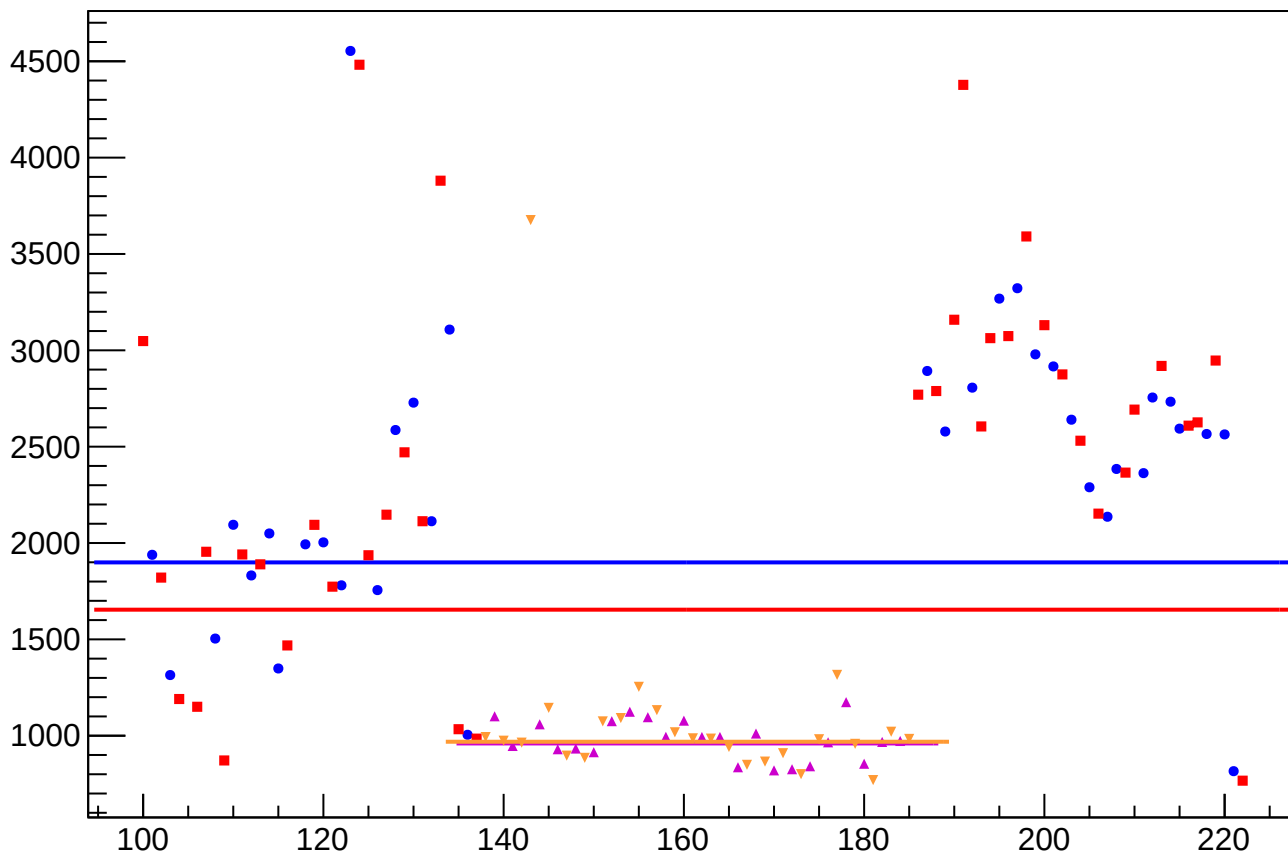
Right: -13.679 $\pm$ 310.500 χ^2 /NDF: 102.1/72

In: 74.439 $\pm$ 207.198 χ^2 /NDF: 76.4/57

Out: 339.537 $\pm$ 201.693 χ^2 /NDF: 110.4/62

All: 210.556 $\pm$ 144.525 χ^2 /NDF: 187.6/120

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1899.377 $\pm$ 0.329 χ^2 /NDF: 4920963.0/34

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1654.039 $\pm$ 0.295 χ^2 /NDF: 8340174.7/37

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

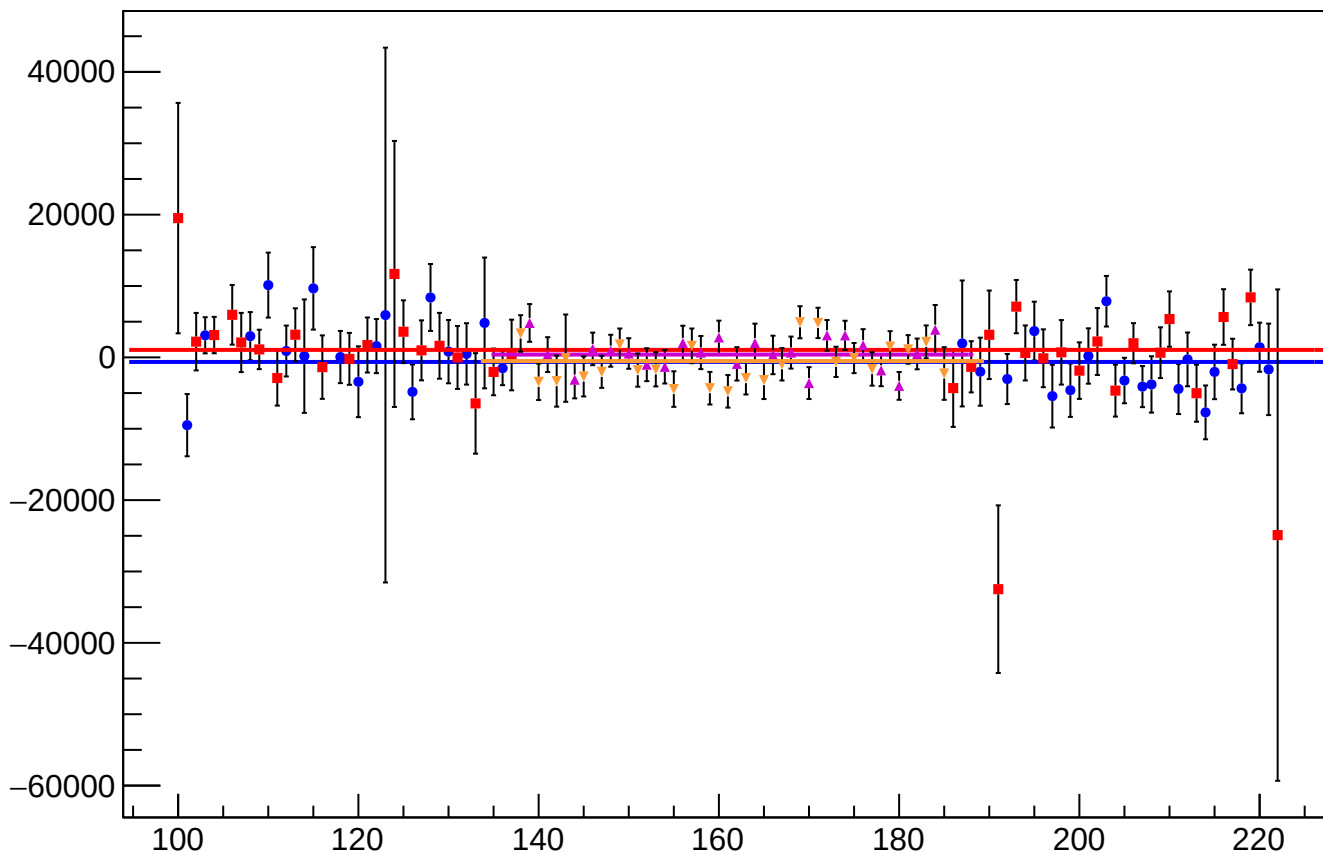
Right: 1763.260 $\pm$ 0.220 χ^2 /NDF: 13569546.8/72

In: 1146.065 $\pm$ 0.147 χ^2 /NDF: 11828810.7/57

Out: 1129.148 $\pm$ 0.143 χ^2 /NDF: 13874064.4/62

All: 1137.379 $\pm$ 0.102 χ^2 /NDF: 25709720.2/131

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -639.638 ± 660.552 χ^2/NDF : 41.6/34

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 1050.029 ± 661.125 χ^2/NDF : 33.1/37

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

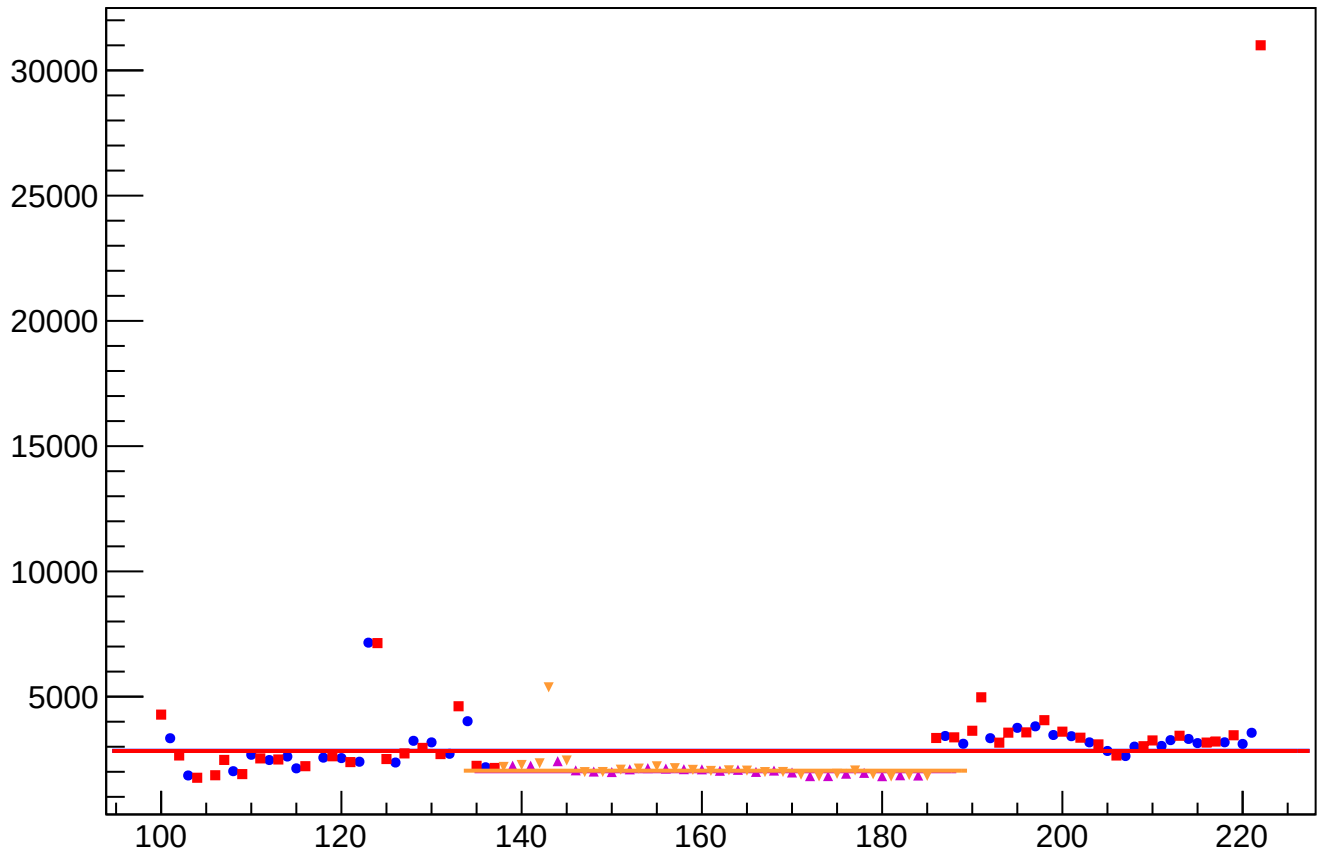
Right: 204.464 ± 467.283 χ^2/NDF : 78.0/72

In: 34.110 ± 390.963 χ^2/NDF : 65.0/57

Out: 25.622 ± 389.208 χ^2/NDF : 70.8/62

All: 29.847 ± 275.830 χ^2/NDF : 135.8/120

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2840.436 $\pm$ 0.467 χ^2 /NDF: 1336157.4/34

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2830.225 $\pm$ 0.467 χ^2 /NDF: 3261117.0/37

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

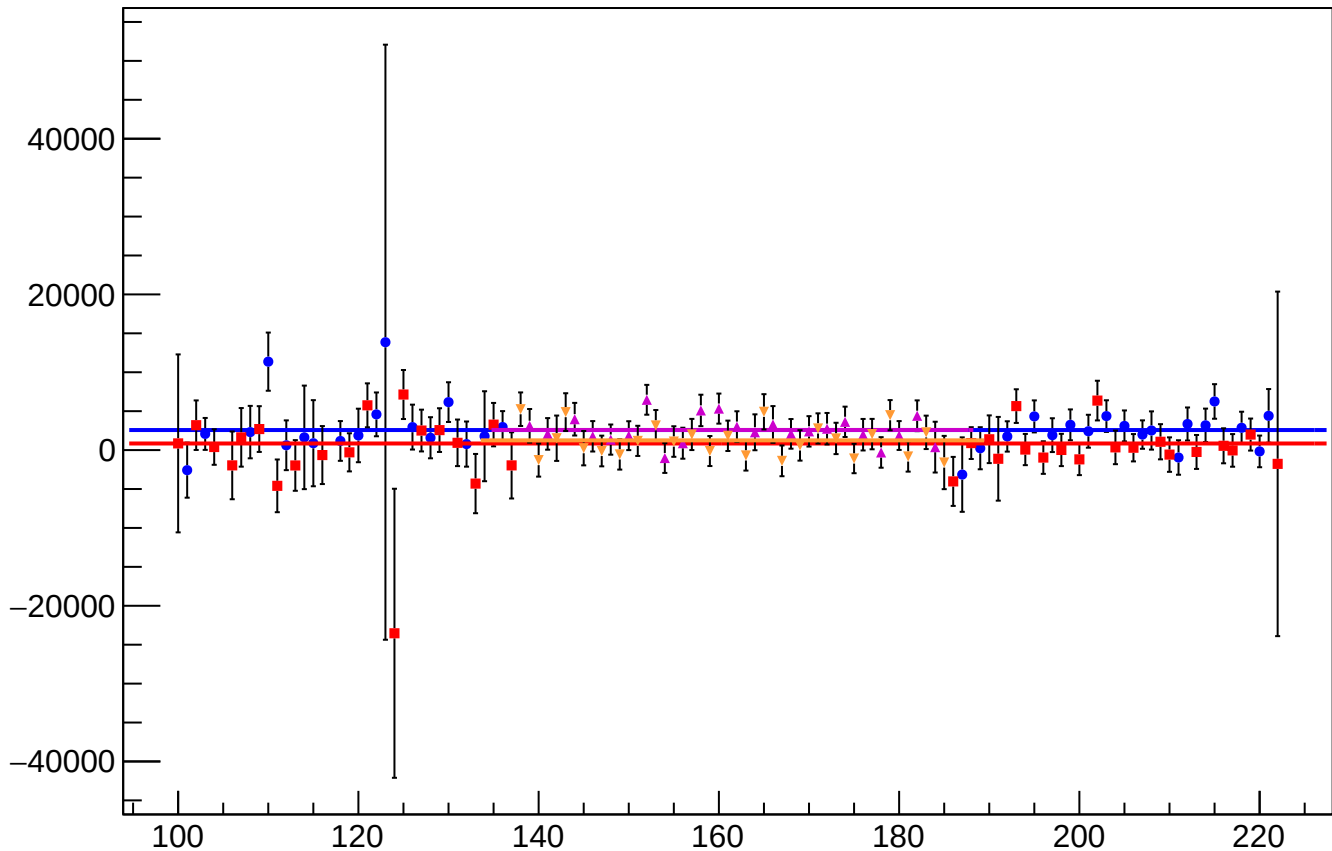
Right: 2835.335 $\pm$ 0.330 χ^2 /NDF: 4597513.1/72

In: 2307.932 $\pm$ 0.276 χ^2 /NDF: 3510259.0/57

Out: 2316.959 $\pm$ 0.275 χ^2 /NDF: 5894654.1/62

All: 2312.466 $\pm$ 0.195 χ^2 /NDF: 9405448.7/12

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2575.839+/-424.844 χ^2/NDF : 23.6/34

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 848.317+/-429.022 χ^2/NDF : 33.3/37

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

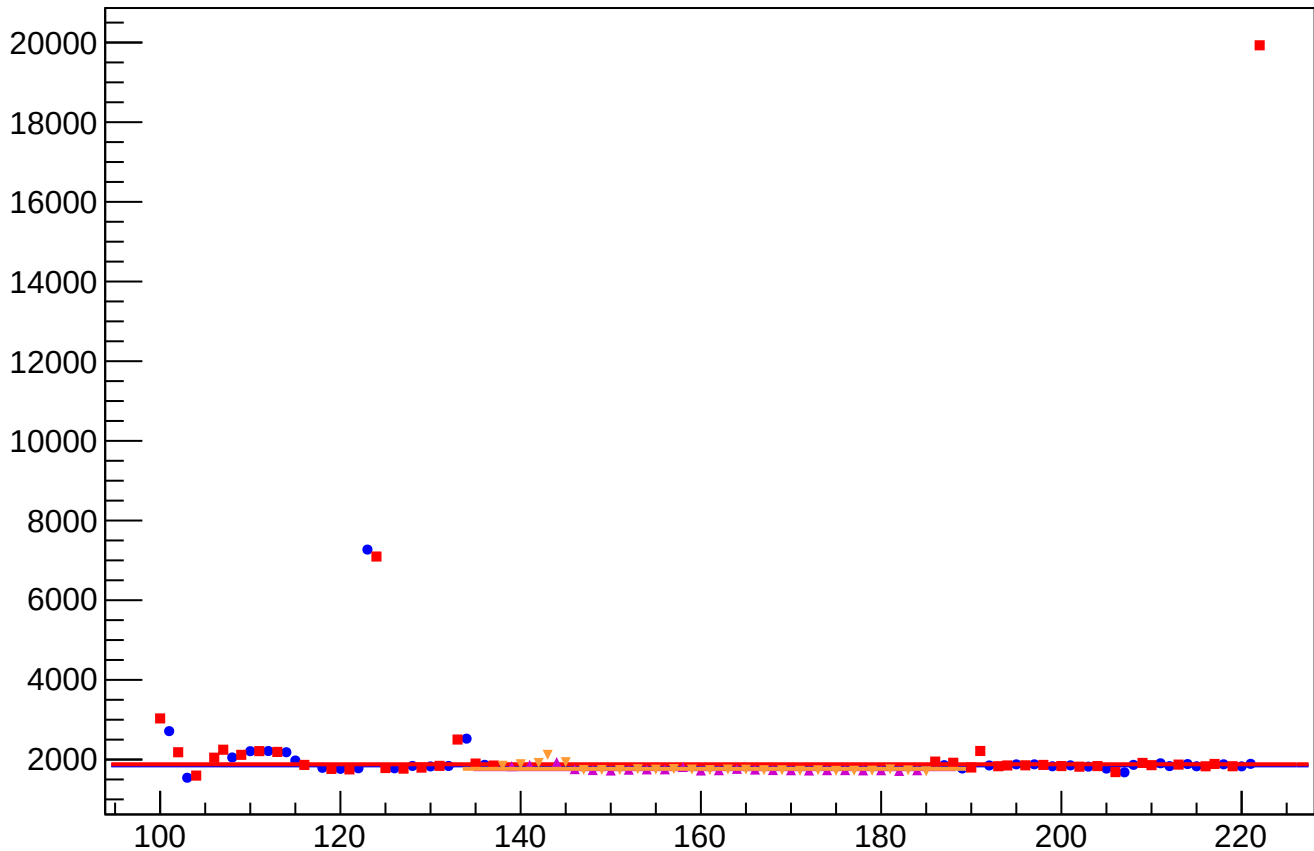
Right: 1720.531+/-301.877 χ^2/NDF : 65.0/72

In: 2581.432+/-299.225 χ^2/NDF : 41.0/57

Out: 1057.006+/-297.346 χ^2/NDF : 56.7/62

All: 1814.418+/-210.916 χ^2/NDF : 110.8/120

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1853.578+/-0.300 χ^2/NDF : 320526.5/34

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1881.864+/-0.303 χ^2/NDF : 1742214.4/37

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

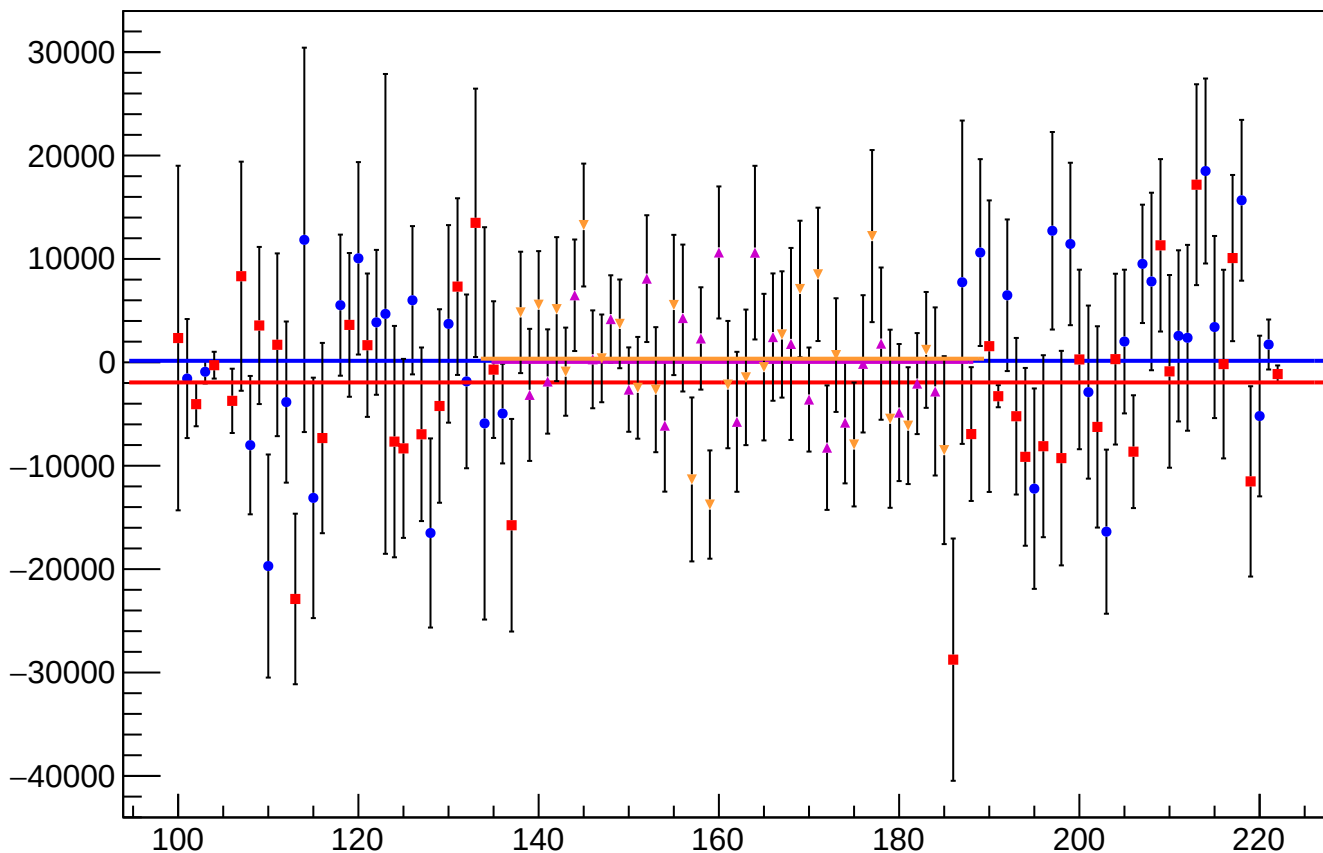
Right: 1867.590+/-0.213 χ^2/NDF : 2067132.9/72

In: 1805.451+/-0.212 χ^2/NDF : 401262.3/57

Out: 1822.475+/-0.210 χ^2/NDF : 1893759.6/62

All: 1814.018+/-0.149 χ^2/NDF : 2298279.9/12

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: 147.072 $\pm$ 829.214 χ^2 /NDF: 40.4/34

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -1943.915 $\pm$ 521.136 χ^2 /NDF: 39.8/37

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

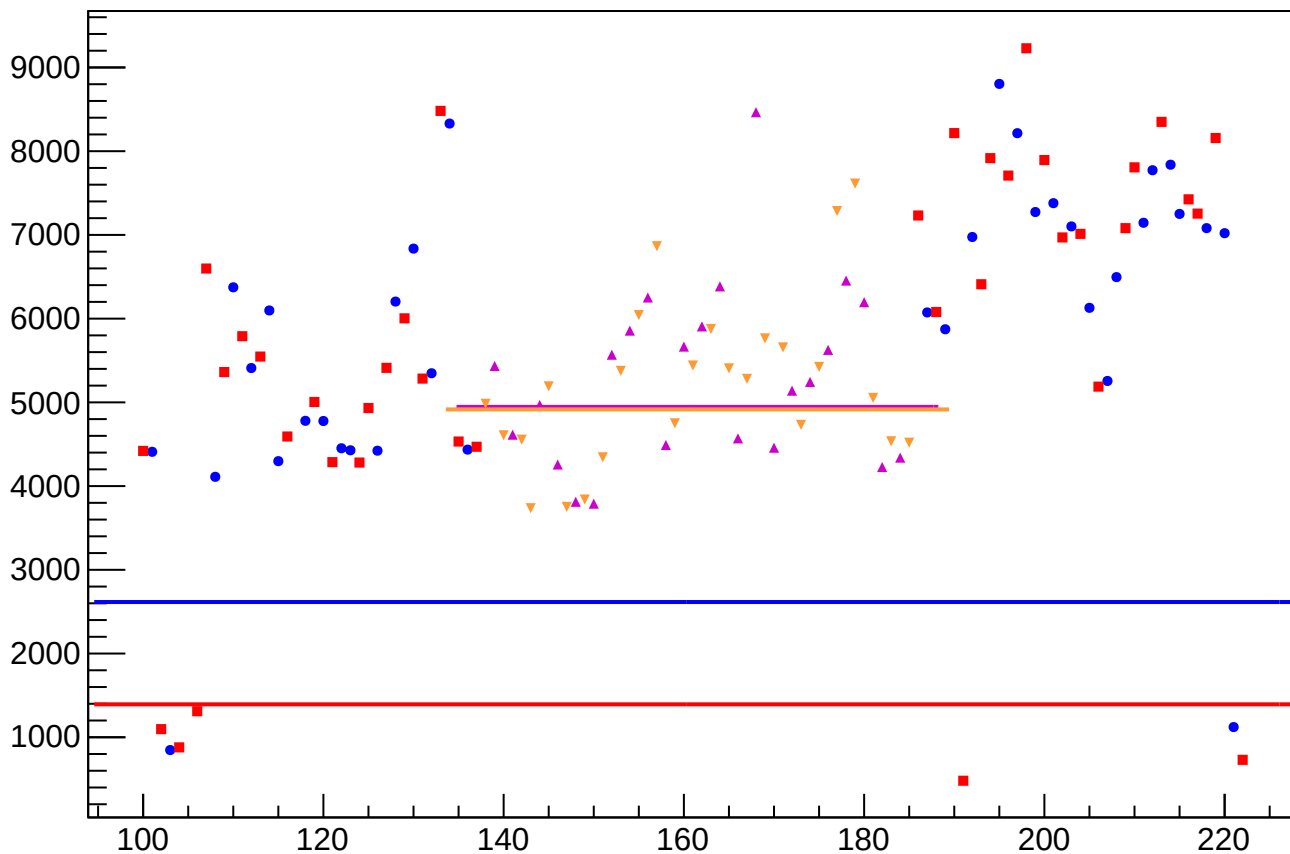
Right: -1351.870 $\pm$ 441.233 χ^2 /NDF: 84.8/72

In: 112.957 $\pm$ 683.554 χ^2 /NDF:56.5/57

Out: -1563.981 $\pm$ 476.052 χ^2 /NDF:70.9/62

All: -1016.276 $\pm$ 390.650 χ^2 /NDF: 131.4/120

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2615.418 $\pm$ 0.586

χ^2 /NDF: 18237767.6/34

Left: 4930.370 $\pm$ 0.594

χ^2 /NDF: 2375402.9/47

Left Out: 4915.865 $\pm$ 0.827

χ^2 /NDF: 1186479.7/24

Right: 1739.455 $\pm$ 0.312

χ^2 /NDF: 46476027.9/72

Right Out: 1393.472 $\pm$ 0.368

χ^2 /NDF: 25124863.3/37

In: 3362.224 $\pm$ 0.483

χ^2 /NDF: 24488214.7/57

Out: 1976.564 $\pm$ 0.337

χ^2 /NDF: 41436574.5/62

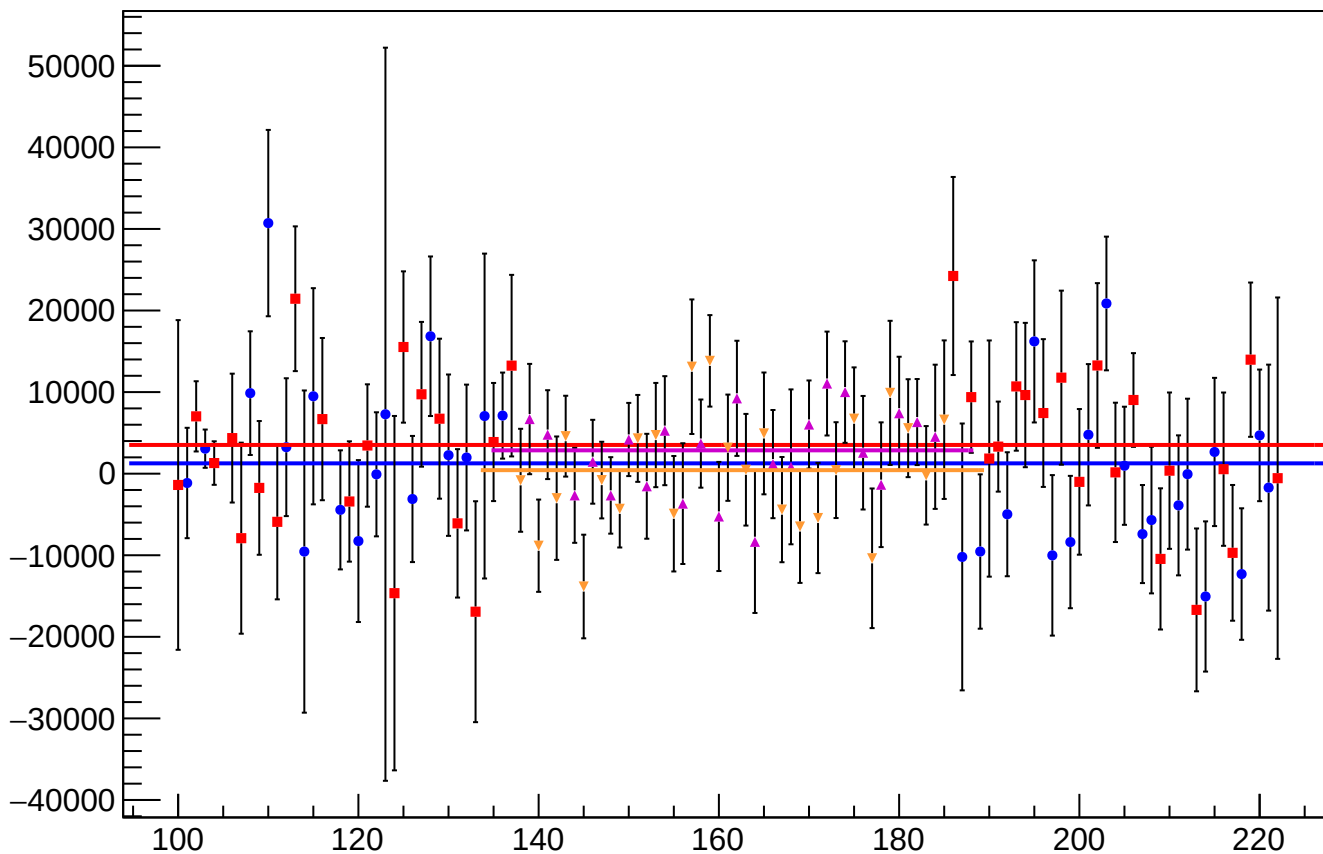
Left In: 4945.817 $\pm$ 0.854

χ^2 /NDF: 1188288.6/22

All: 2429.135 $\pm$ 0.276

χ^2 /NDF: 71459110.2/131

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1265.273+/-1264.213 χ^2/NDF : 37.8/34

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3521.380+/-1247.971 χ^2/NDF : 34.7/37

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

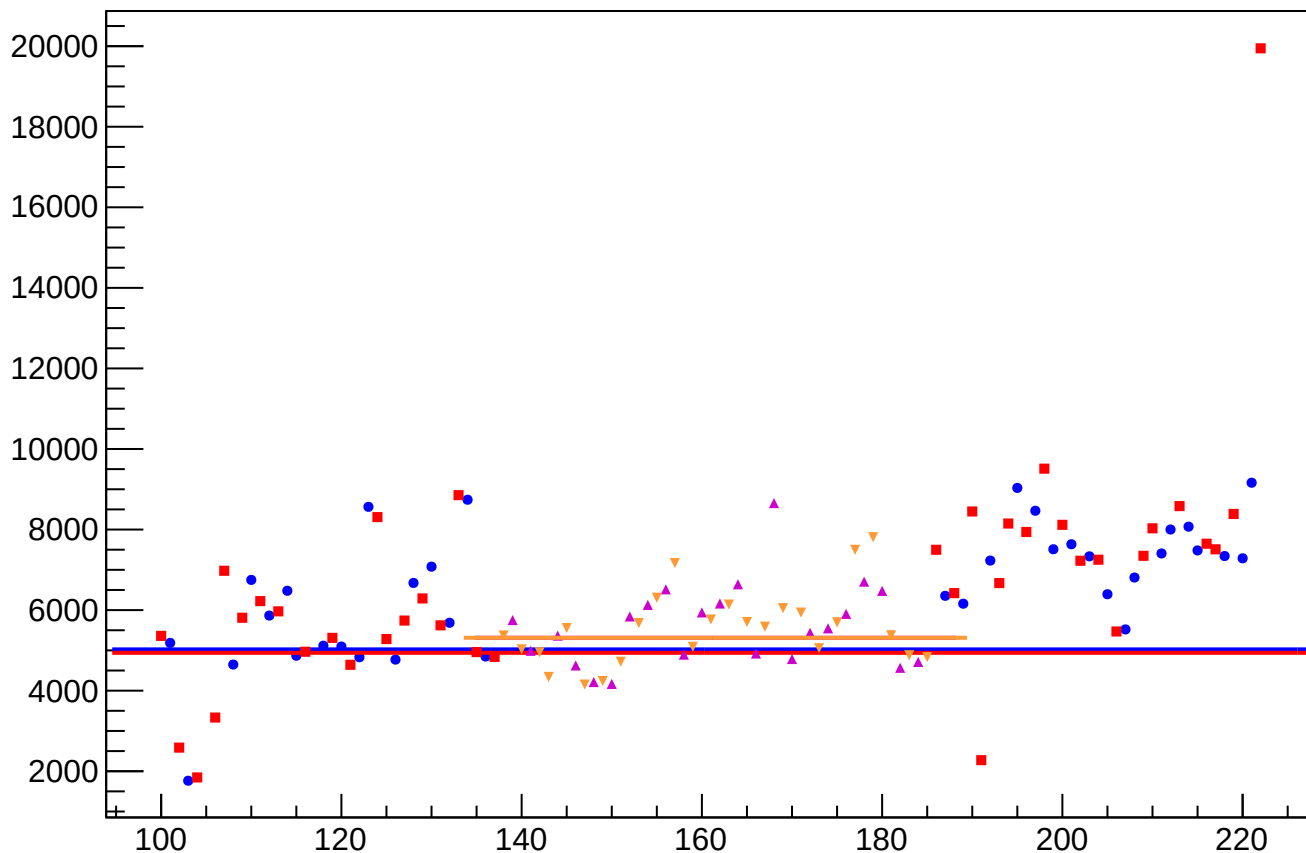
Right: 2407.912+/-888.136 χ^2/NDF : 74.1/72

In: 2045.224+/-903.710 χ^2/NDF : 51.4/57

Out: 1988.823+/-886.069 χ^2/NDF : 64.9/62

All: 2016.468+/-632.690 χ^2/NDF : 116.3/120

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 5025.179+/-0.894 χ^2/NDF : 6864200.4/34

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4939.709+/-0.879 χ^2/NDF : 8239661.7/37

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

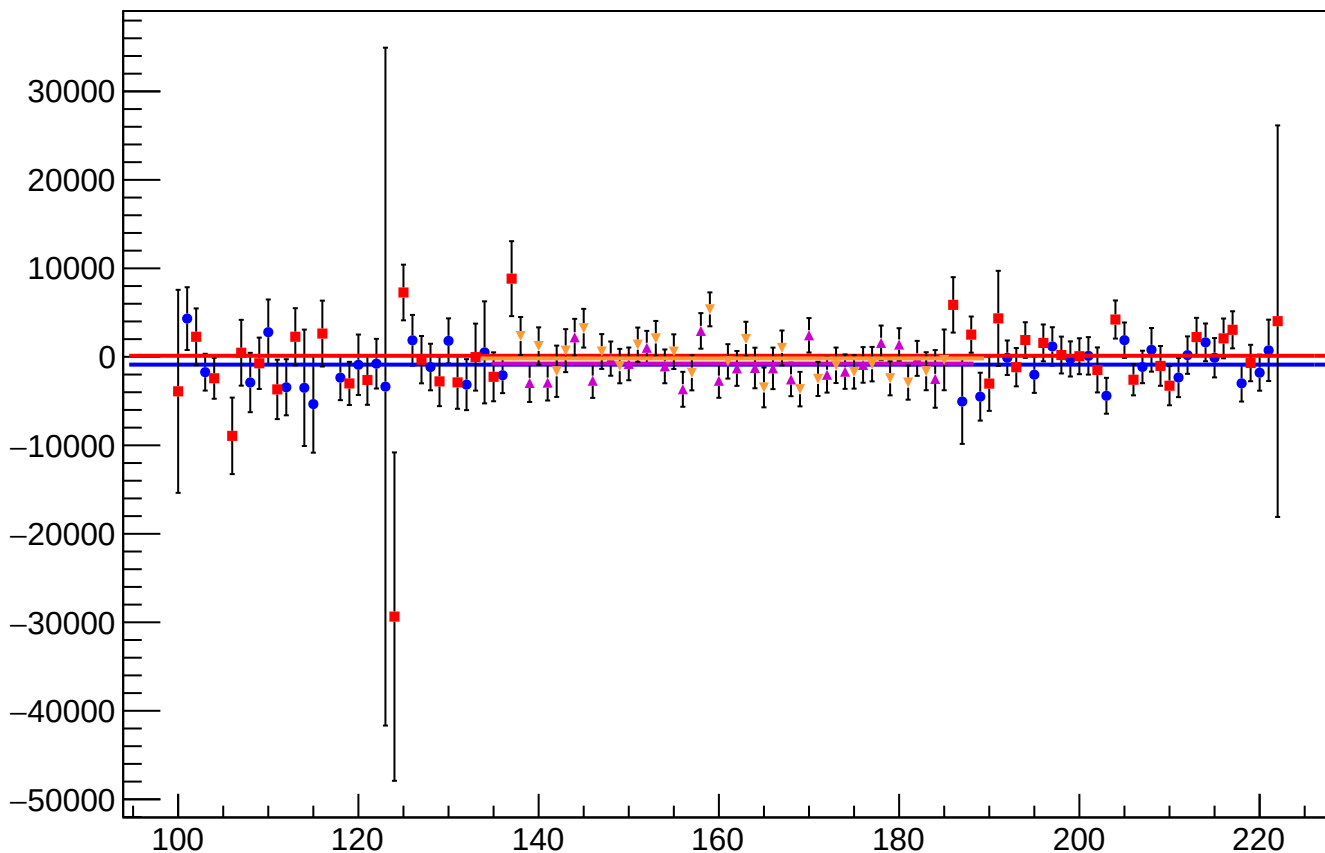
Right: 4981.719+/-0.627 χ^2/NDF : 15108510.4/72

In: 5165.857+/-0.639 χ^2/NDF : 7872244.9/57

Out: 5124.071+/-0.625 χ^2/NDF : 9223126.5/62

All: 5144.510+/-0.447 χ^2/NDF : 17097555.9/131

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -881.157+/-424.603 χ^2/NDF : 21.9/34

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 120.215+/-428.661 χ^2/NDF : 46.6/37

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

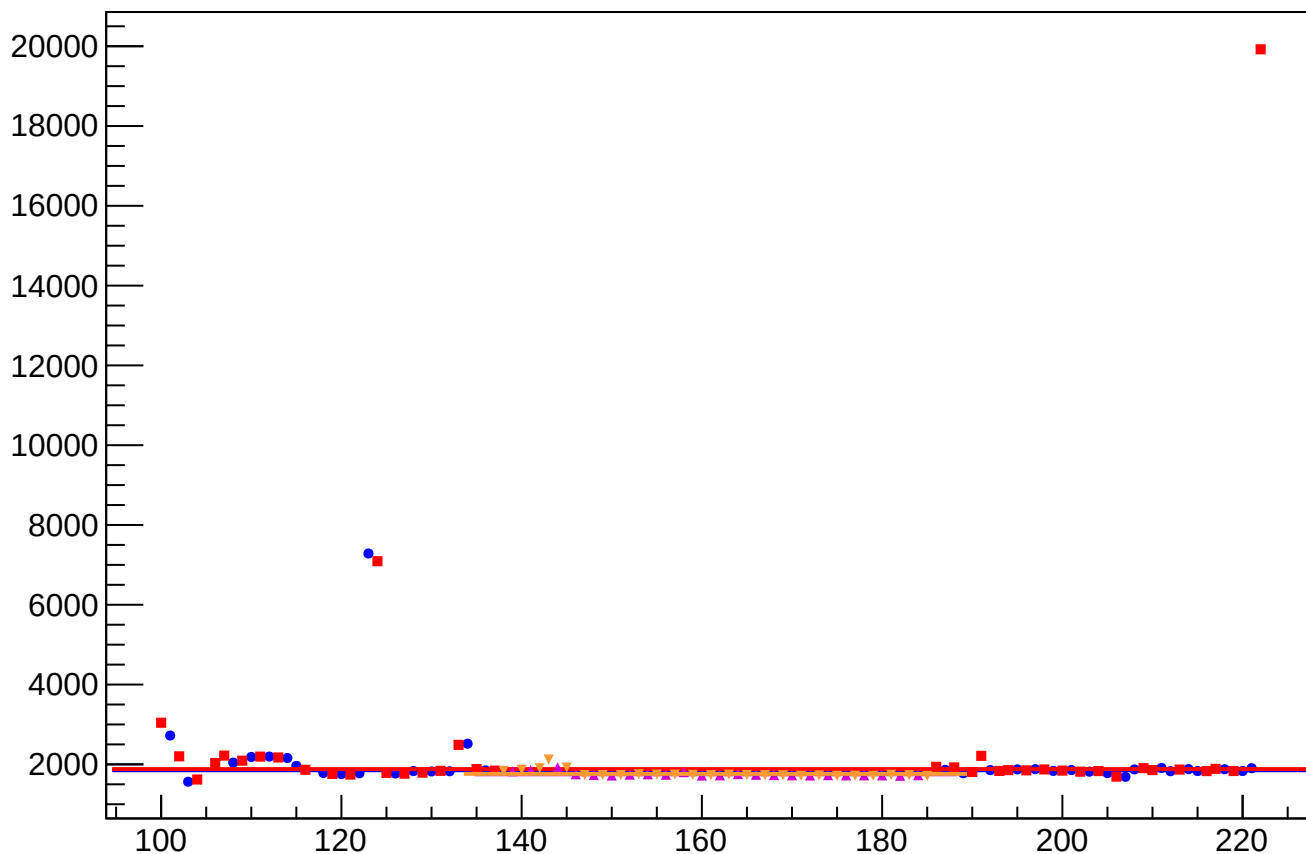
Right: -385.233+/-301.664 χ^2/NDF : 71.3/72

In: -819.780+/-298.565 χ^2/NDF : 42.2/57

Out: -36.106+/-296.659 χ^2/NDF : 76.2/62

All: -425.433+/-210.440 χ^2/NDF : 121.8/120

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1852.874+/-0.300 χ^2/NDF : 308022.6/34

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1880.828+/-0.303 χ^2/NDF : 1727210.2/37

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

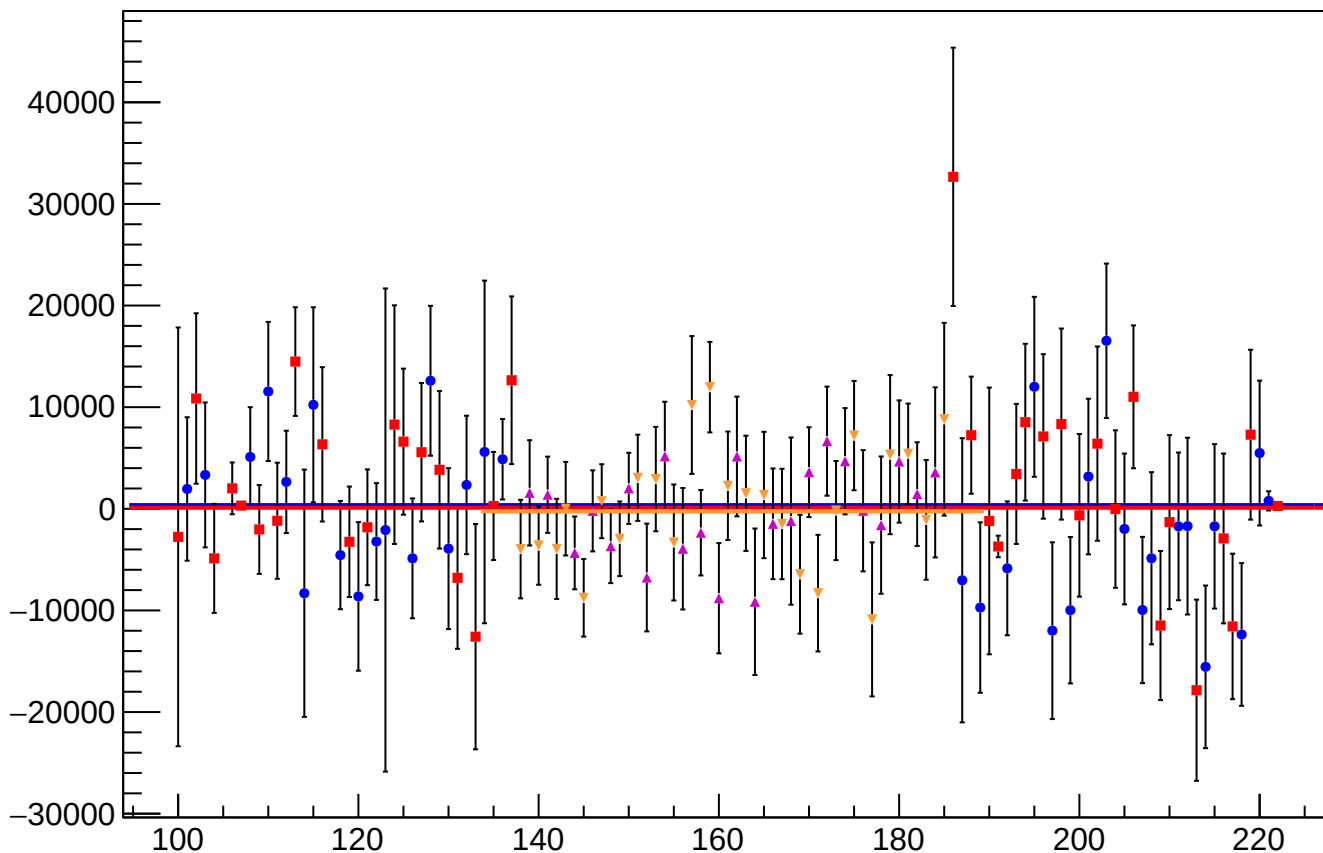
Right: 1866.725+/-0.213 χ^2/NDF : 2039528.4/72

In: 1801.581+/-0.211 χ^2/NDF : 394330.1/57

Out: 1818.470+/-0.210 χ^2/NDF : 1886033.4/62

All: 1810.082+/-0.149 χ^2/NDF : 2283584.6/12

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 366.104 $\pm$ 745.741 χ^2 /NDF: 37.5/34

Left Out: -235.806 $\pm$ 1005.144 χ^2 /NDF:28.9/24

Right Out: 103.282 $\pm$ 282.816 χ^2 /NDF: 55.9/37

Left In: -239.224 $\pm$ 1028.883 χ^2 /NDF:15.3/22

Left: -237.475 $\pm$ 718.990 χ^2 /NDF: 44.2/47

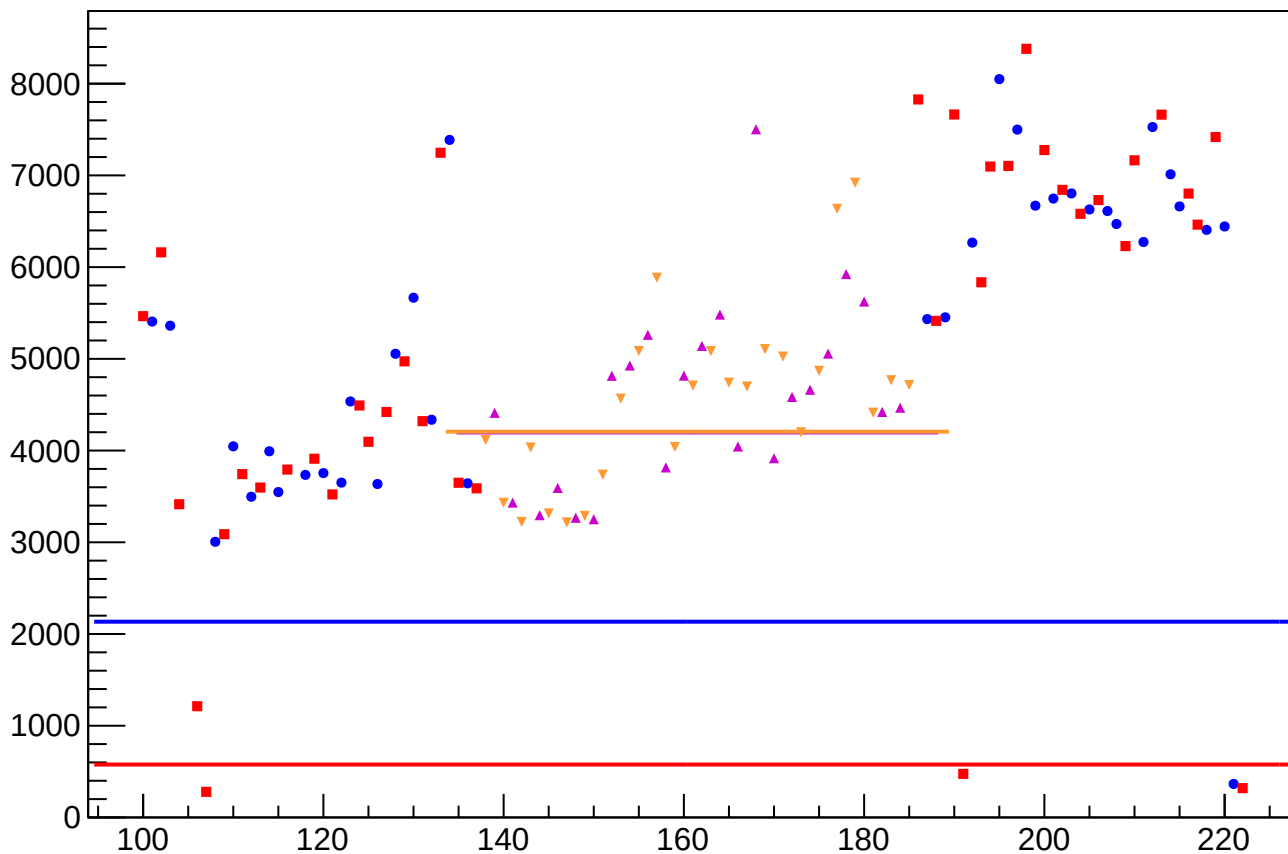
Right: 136.329 $\pm$ 264.438 χ^2 /NDF: 93.5/72

In: 157.623 $\pm$ 603.816 χ^2 /NDF:53.0/57

Out: 78.406 $\pm$ 272.245 χ^2 /NDF:84.9/62

All: 91.789 $\pm$ 248.184 χ^2 /NDF: 137.9/120

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2134.262+/-0.527

χ^2/NDF : 21733287.4/34

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right Out: 576.769+/-0.200

χ^2/NDF : 31446989.1/37

Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Right: 772.608+/-0.187

χ^2/NDF : 60807147.8/72

In: 2844.783+/-0.427

χ^2/NDF : 28475756.0/57

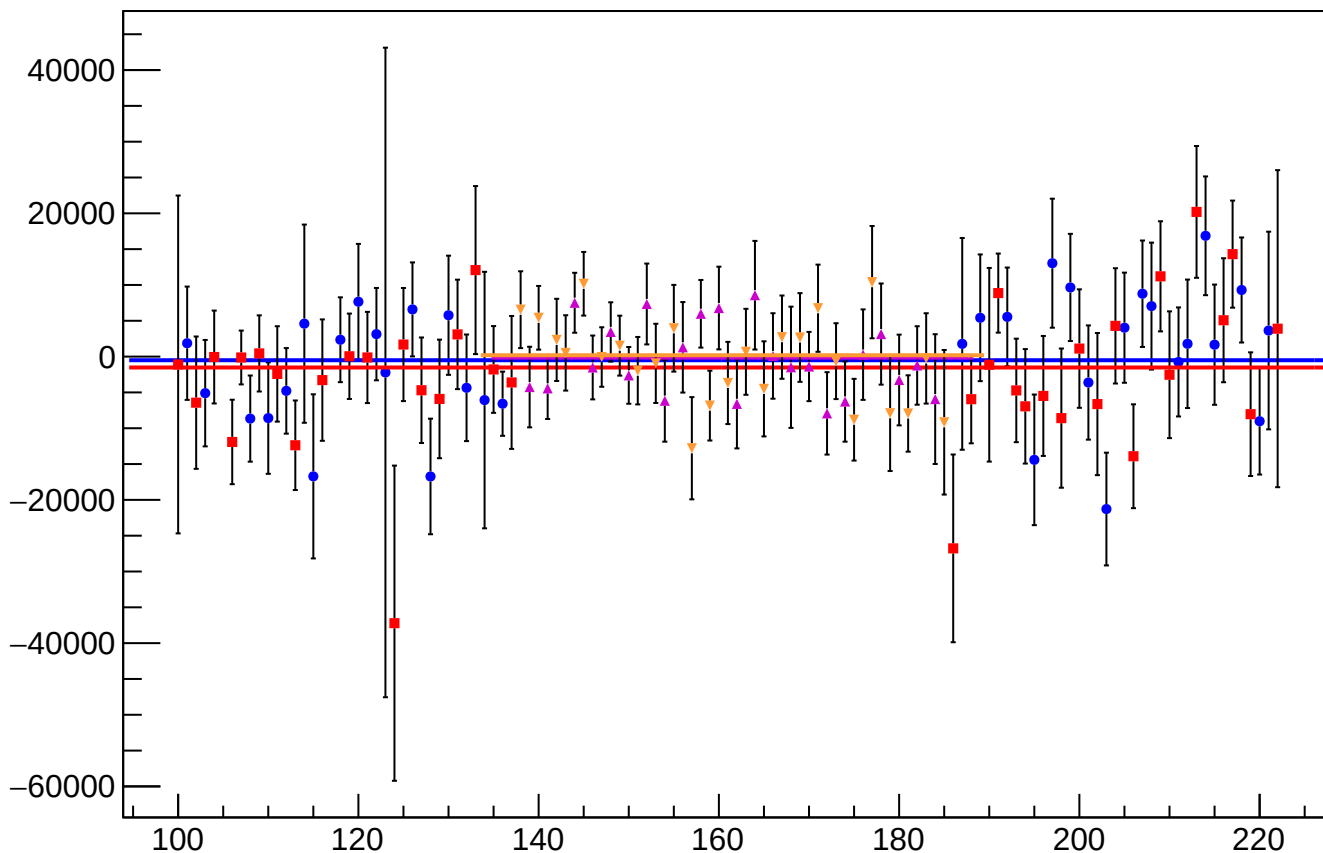
Out: 843.017+/-0.193

χ^2/NDF : 57051208.1/62

All: 1181.201+/-0.175

χ^2/NDF : 103794448.5

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -505.866+/-1321.863 χ^2/NDF : 40.7/34

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -1519.856+/-1213.347 χ^2/NDF : 39.0/37

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

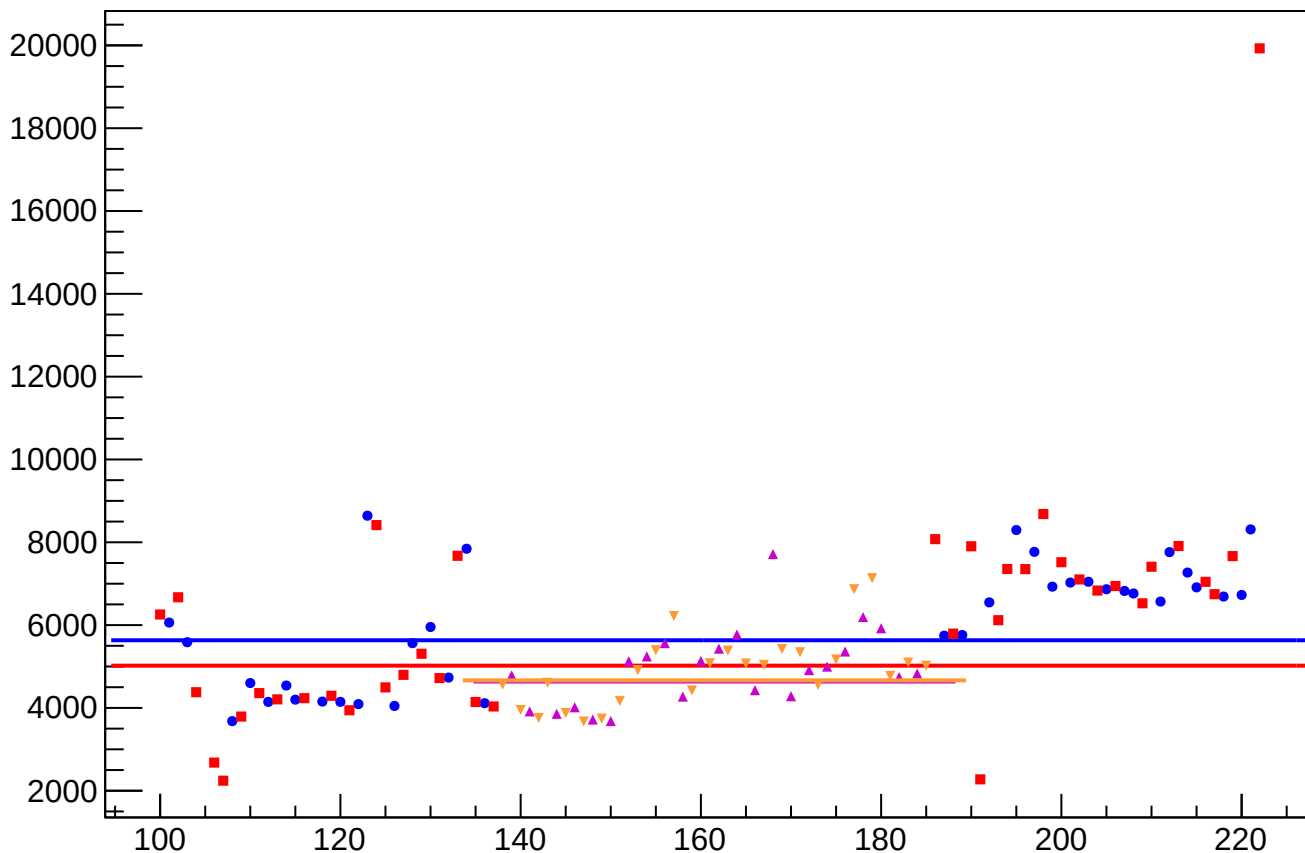
Right: -1056.184+/-893.871 χ^2/NDF : 80.0/72

In: -292.965+/-858.780 χ^2/NDF : 59.4/57

Out: -586.764+/-817.725 χ^2/NDF : 65.0/62

All: -447.055+/-592.201 χ^2/NDF : 124.5/120

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5633.699+/-0.935 χ^2/NDF : 2212436.1/34

Left Out: 4665.620+/-0.783 χ^2/NDF : 1017235.0/24

Right Out: 5020.735+/-0.855 χ^2/NDF : 5676344.7/37

Left In: 4637.777+/-0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

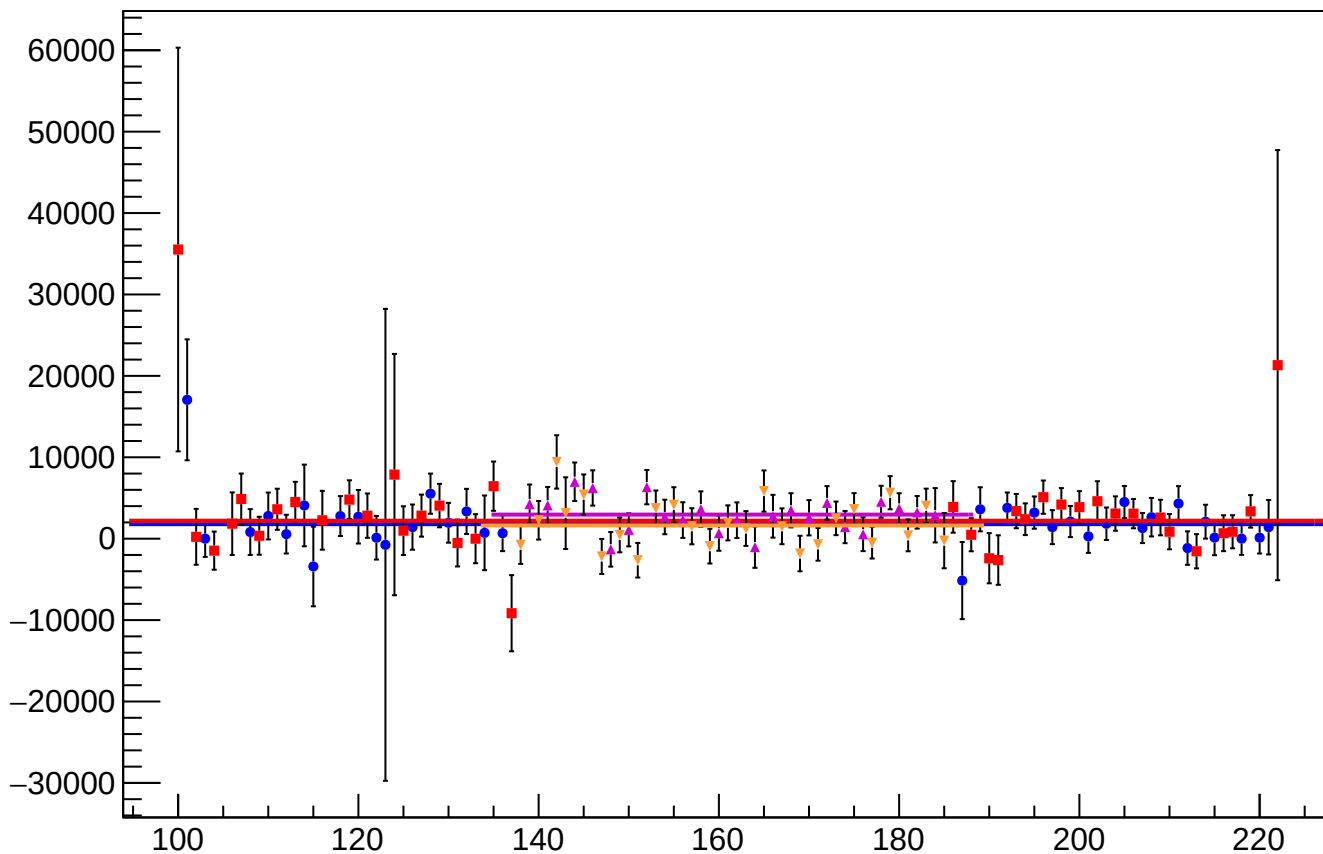
Right: 5299.867+/-0.631 χ^2/NDF : 8122998.0/72

In: 5058.131+/-0.607 χ^2/NDF : 3933765.1/57

Out: 4827.584+/-0.577 χ^2/NDF : 6787474.0/62

All: 4937.016+/-0.418 χ^2/NDF : 10796962.0/131

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1784.280+/-411.177 χ^2/NDF : 22.8/34

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2213.476+/-409.587 χ^2/NDF : 35.1/37

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

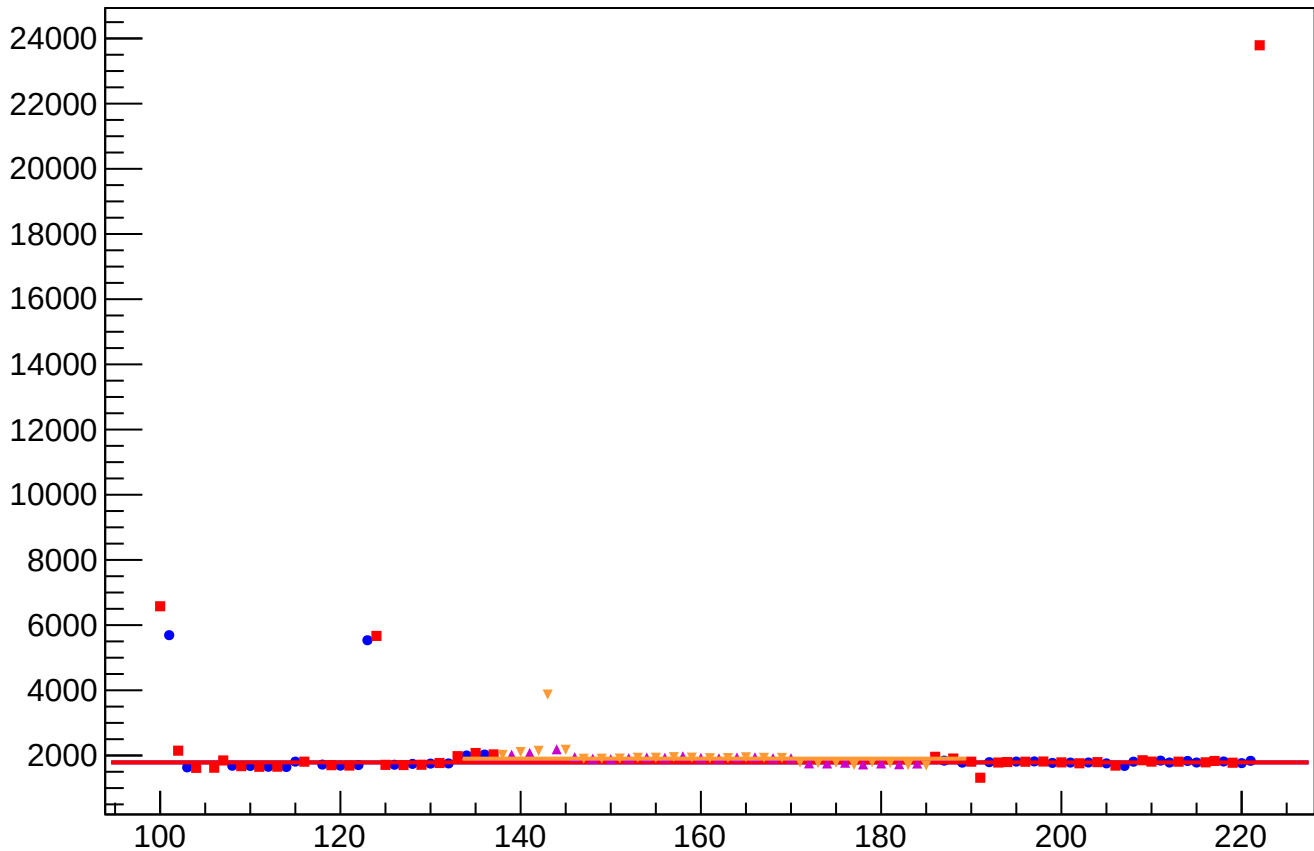
Right: 1999.709+/-290.182 χ^2/NDF : 58.4/72

In: 2313.866+/-304.669 χ^2/NDF : 46.9/57

Out: 1947.231+/-302.003 χ^2/NDF : 71.5/62

All: 2128.937+/-214.485 χ^2/NDF : 119.1/120

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1786.458+/-0.291 χ^2/NDF : 656720.5/34

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1787.613+/-0.289 χ^2/NDF : 1766003.9/37

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

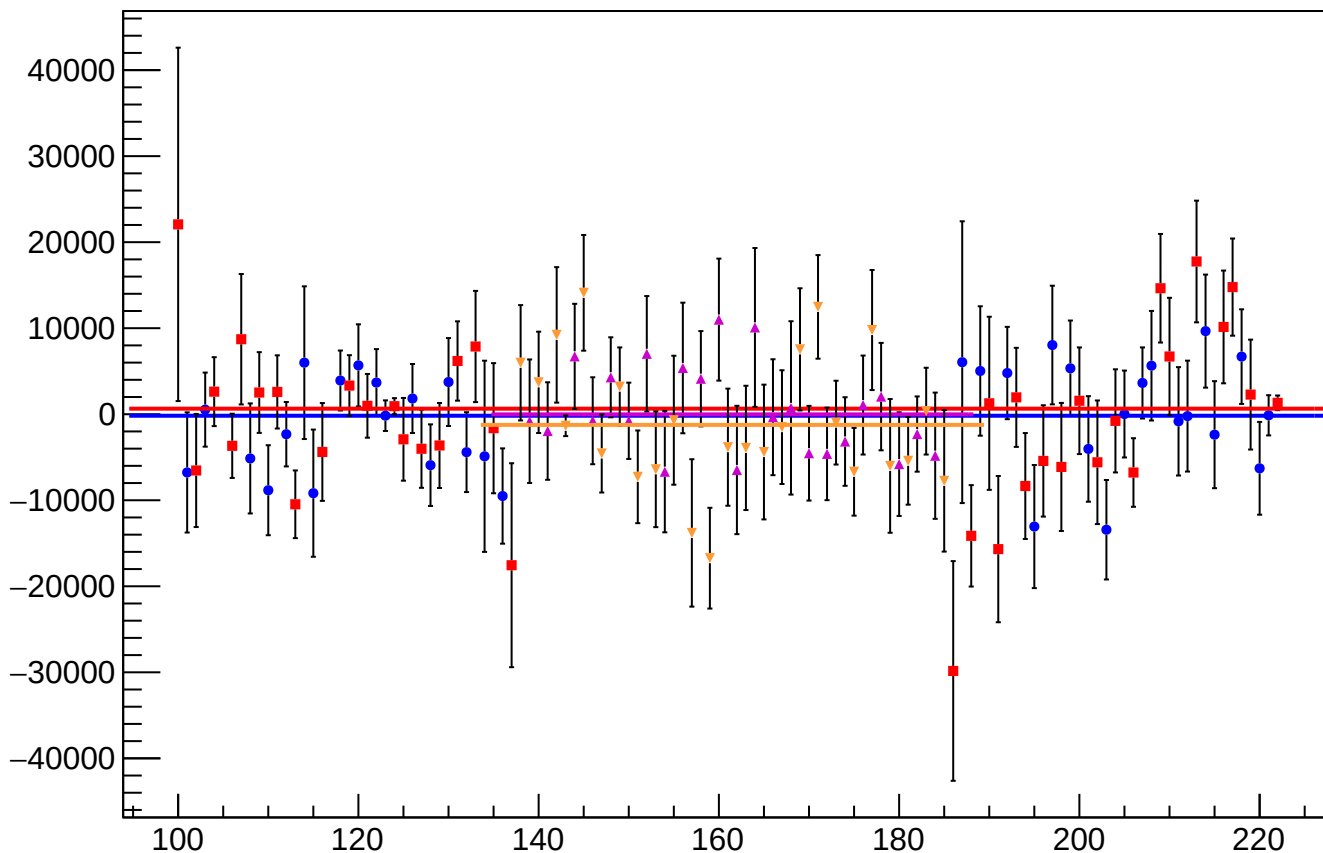
Right: 1787.039+/-0.205 χ^2/NDF : 2422732.4/72

In: 1832.668+/-0.215 χ^2/NDF : 839151.9/57

Out: 1840.408+/-0.213 χ^2/NDF : 2380956.1/62

All: 1836.577+/-0.152 χ^2/NDF : 3220760.0/12

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -175.367 ± 782.022 χ^2/NDF : 36.3/34

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: 645.496 ± 518.837 χ^2/NDF : 66.8/37

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

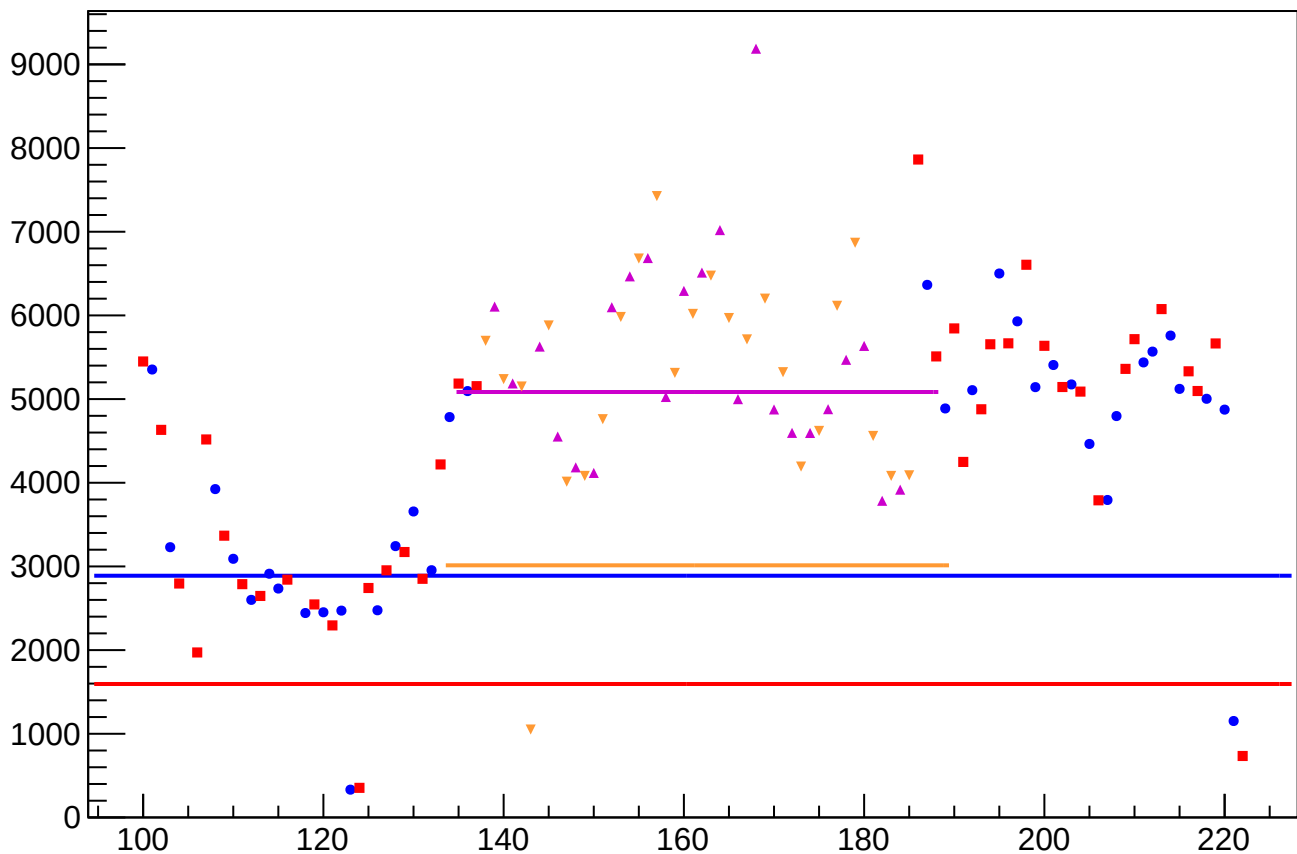
Right: 394.608 ± 432.338 χ^2/NDF : 103.8/72

In: -130.152 ± 661.967 χ^2/NDF : 49.5/57

Out: 146.840 ± 444.963 χ^2/NDF : 104.2/62

All: 60.636 ± 369.289 χ^2/NDF : 153.8/120

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2888.881+/-0.553

χ^2/NDF : 10892708.6/34

Left: 3689.075+/-0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268+/-0.612

χ^2/NDF : 12270753.9/24

Right: 1990.452+/-0.306

χ^2/NDF : 35991530.6/72

Right Out: 1594.988+/-0.367

χ^2/NDF : 21297153.5/37

In: 3511.316+/-0.468

χ^2/NDF : 16665923.0/57

Out: 1970.113+/-0.315

χ^2/NDF : 37520725.3/62

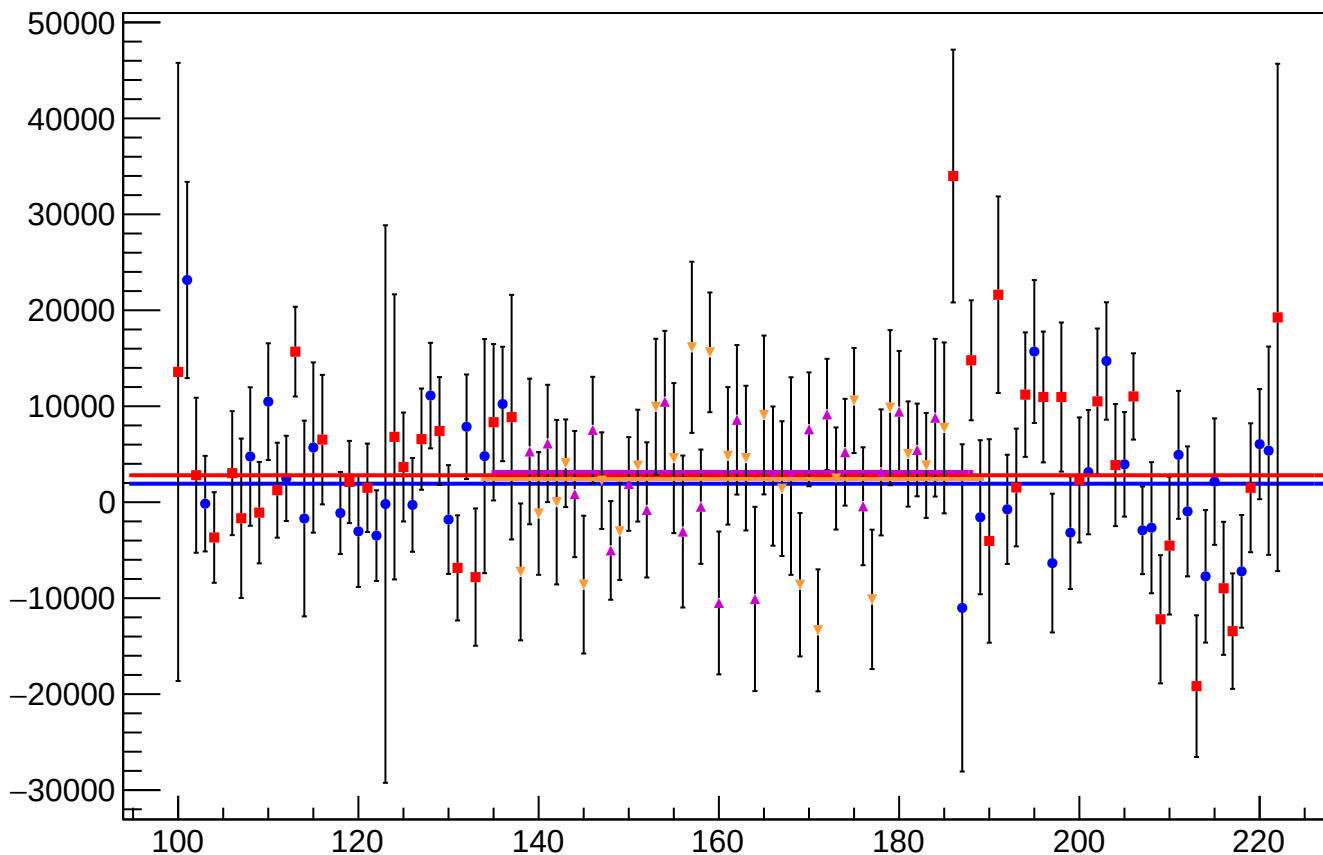
Left In: 5084.645+/-0.879

χ^2/NDF : 1303587.7/22

All: 2449.758+/-0.261

χ^2/NDF : 61653909.1/11

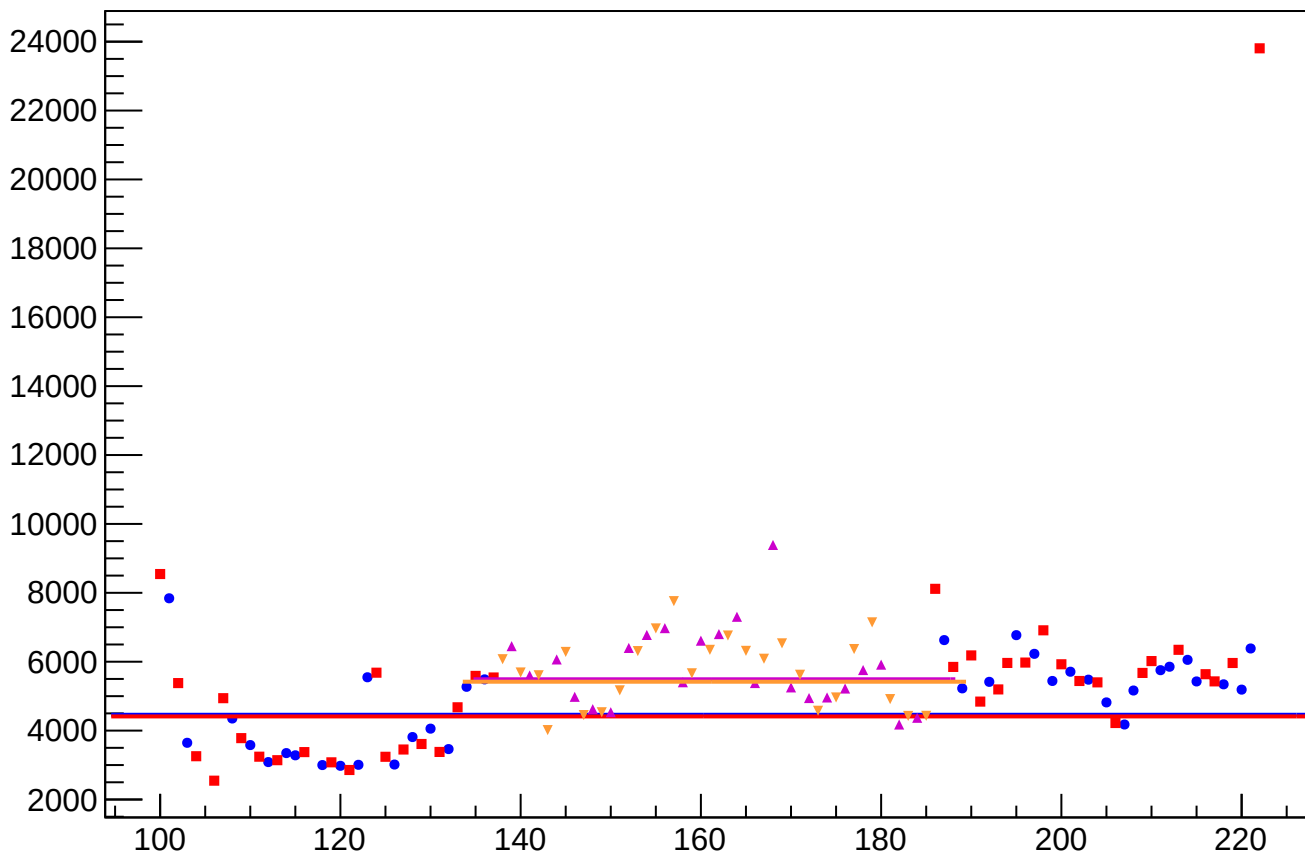
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1926.841 ± 1054.176 $\chi^2/\text{NDF}: 34.1/34$
 Left Out: 2417.210 ± 1286.482 $\chi^2/\text{NDF}: 29.9/24$
 Right Out: 2807.545 ± 1049.242 $\chi^2/\text{NDF}: 65.5/37$
 Left In: 3153.449 ± 1337.378 $\chi^2/\text{NDF}: 15.5/22$

Left: 2771.054 ± 927.151 $\chi^2/\text{NDF}: 45.5/47$
 Right: 2369.259 ± 743.664 $\chi^2/\text{NDF}: 99.9/72$
 In: 2396.902 ± 827.901 $\chi^2/\text{NDF}: 50.1/57$
 Out: 2651.619 ± 813.100 $\chi^2/\text{NDF}: 95.4/62$
 All: 2526.558 ± 580.111 $\chi^2/\text{NDF}: 145.5/120$

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4459.729+/-0.745 χ^2/NDF : 2561219.5/34

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4411.655+/-0.736 χ^2/NDF : 4144984.6/37

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

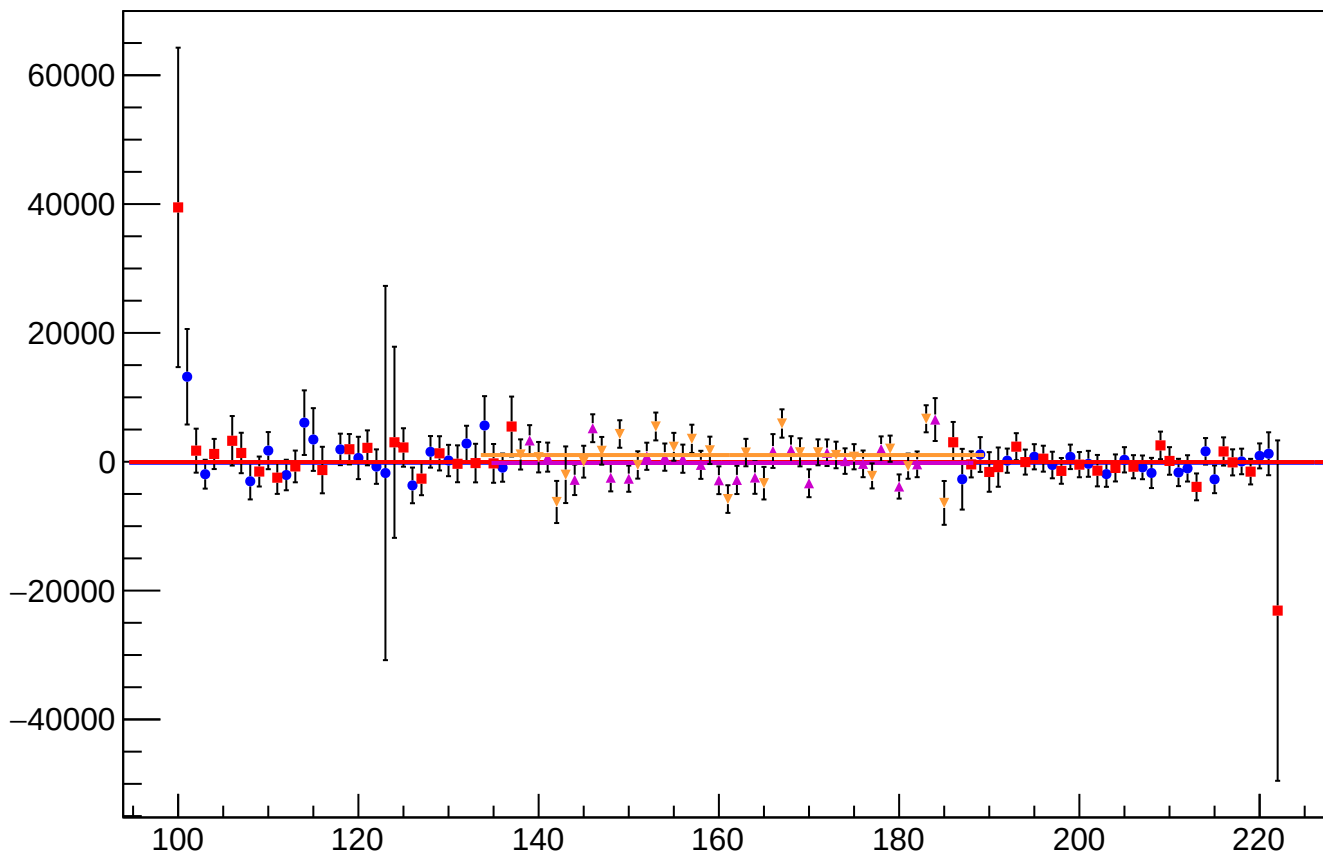
Right: 4435.383+/-0.524 χ^2/NDF : 6708310.5/72

In: 4854.504+/-0.585 χ^2/NDF : 4357485.2/57

Out: 4810.243+/-0.572 χ^2/NDF : 5996597.3/62

All: 4831.866+/-0.409 χ^2/NDF : 10357006.2/119

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -153.554+/-408.969 χ^2/NDF : 19.7/34

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: -40.890+/-407.362 χ^2/NDF : 20.8/37

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

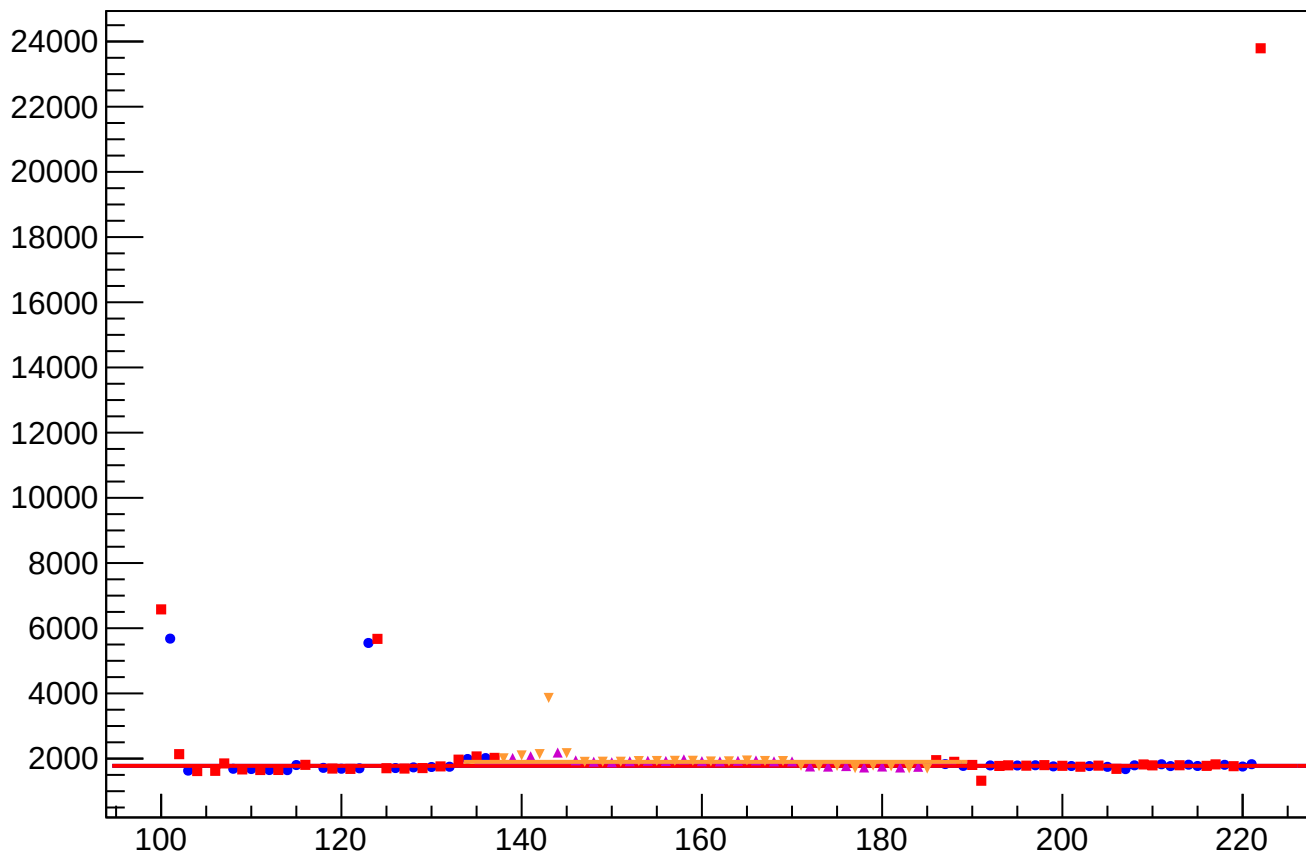
Right: -97.001+/-288.615 χ^2/NDF : 40.6/72

In: -170.801+/-303.577 χ^2/NDF :49.7/57

Out: 450.990+/-300.859 χ^2/NDF :72.6/62

All: 142.891+/-213.694 χ^2/NDF : 124.4/120

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1776.992 $\pm$ 0.289 χ^2 /NDF: 653066.8/34

Left Out: 1900.295 $\pm$ 0.316 χ^2 /NDF: 537892.5/24

Right Out: 1778.124 $\pm$ 0.287 χ^2 /NDF: 1761755.0/37

Left In: 1886.378 $\pm$ 0.320 χ^2 /NDF: 123520.6/22

Left: 1893.441 $\pm$ 0.225 χ^2 /NDF: 662371.1/47

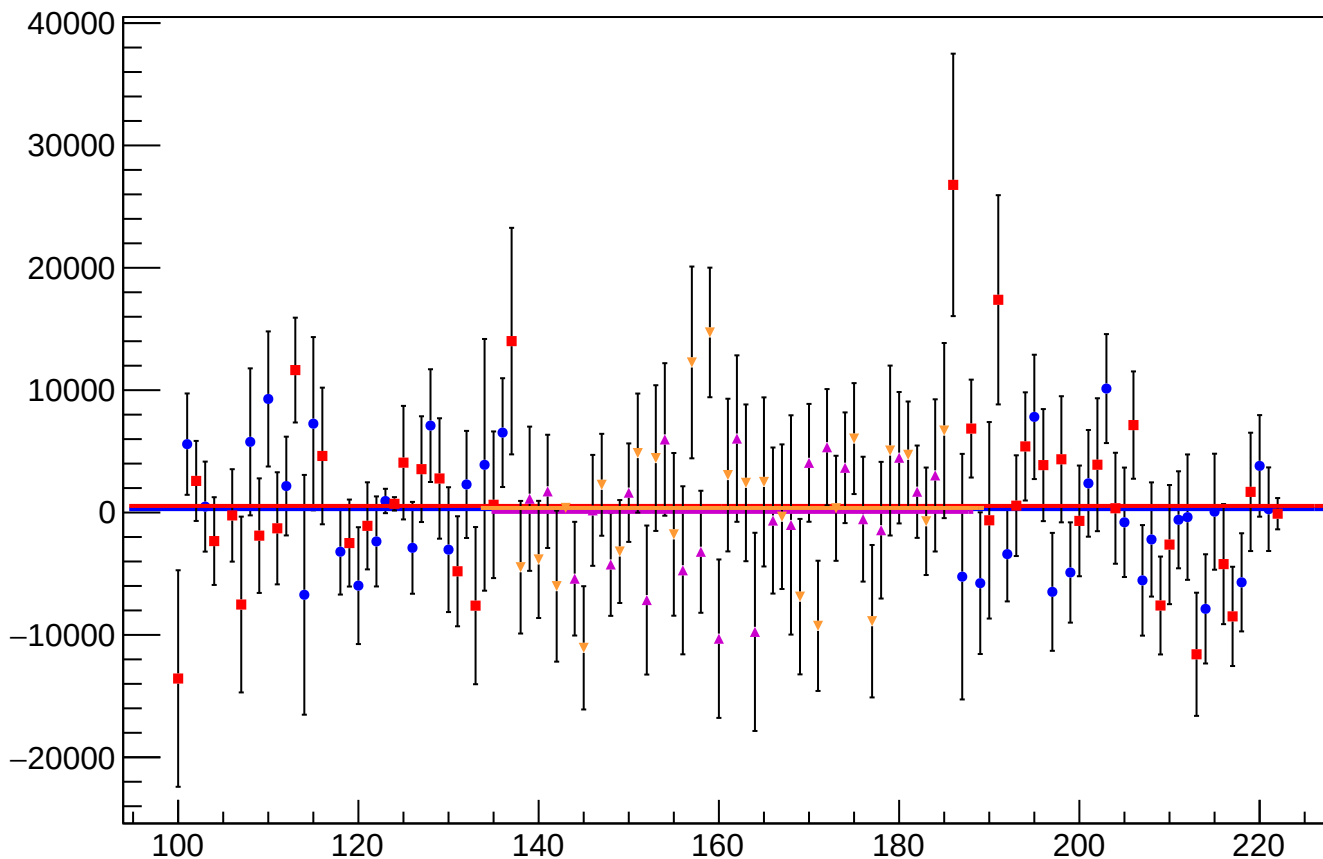
Right: 1777.562 $\pm$ 0.204 χ^2 /NDF: 2414829.5/72

In: 1826.105 $\pm$ 0.215 χ^2 /NDF: 840828.1/57

Out: 1833.507 $\pm$ 0.212 χ^2 /NDF: 2381594.9/62

All: 1829.844 $\pm$ 0.151 χ^2 /NDF: 3223023.7/12

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 278.168+/-613.084 χ^2/NDF : 37.7/34

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 541.076+/-423.523 χ^2/NDF : 54.0/37

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

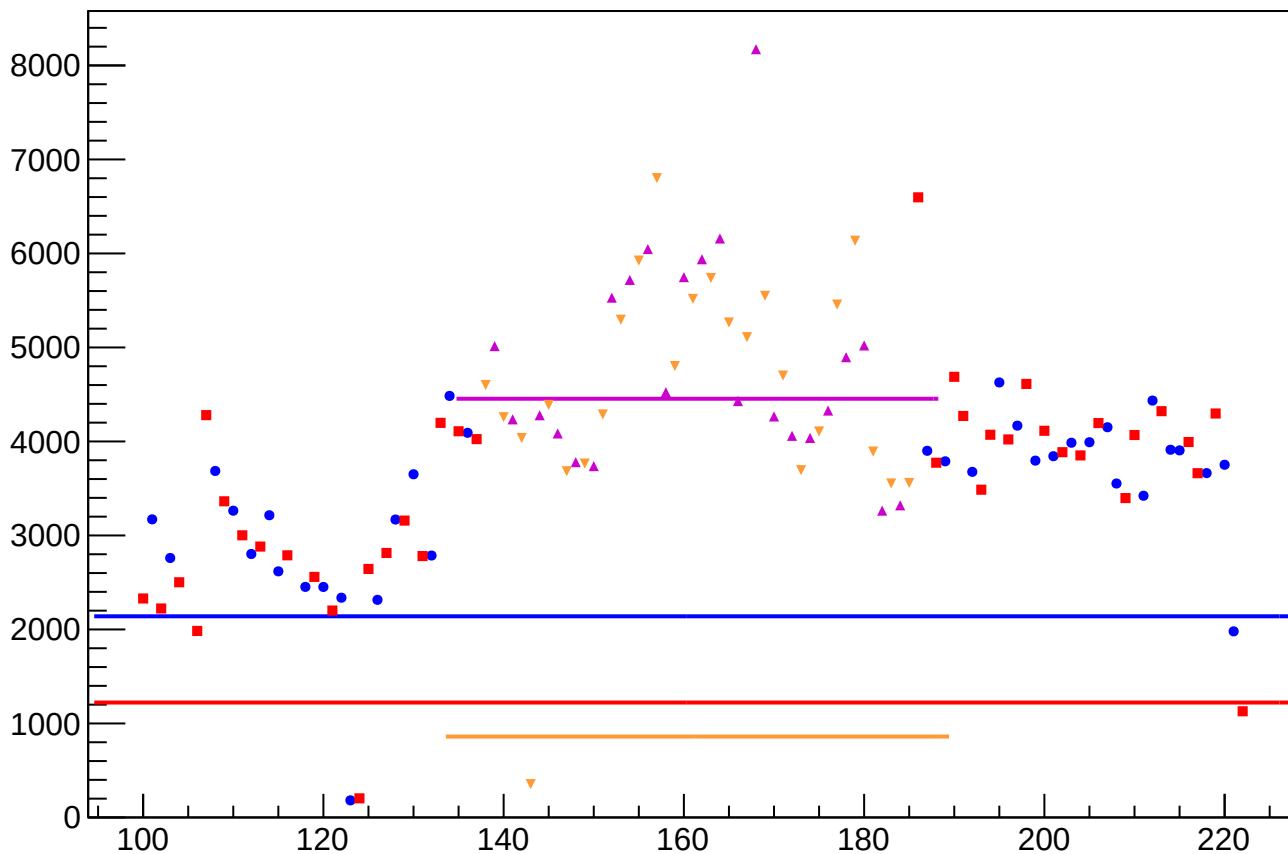
Right: 456.143+/-348.462 χ^2/NDF : 91.8/72

In: 224.068+/-534.344 χ^2/NDF :52.3/57

Out: 448.565+/-283.691 χ^2/NDF :84.9/62

All: 399.201+/-250.567 χ^2/NDF : 137.3/120

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2139.947 $\pm$ 0.434 χ^2 /NDF: 14135541.6/34

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1222.513 $\pm$ 0.299 χ^2 /NDF: 23622145.0/37

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

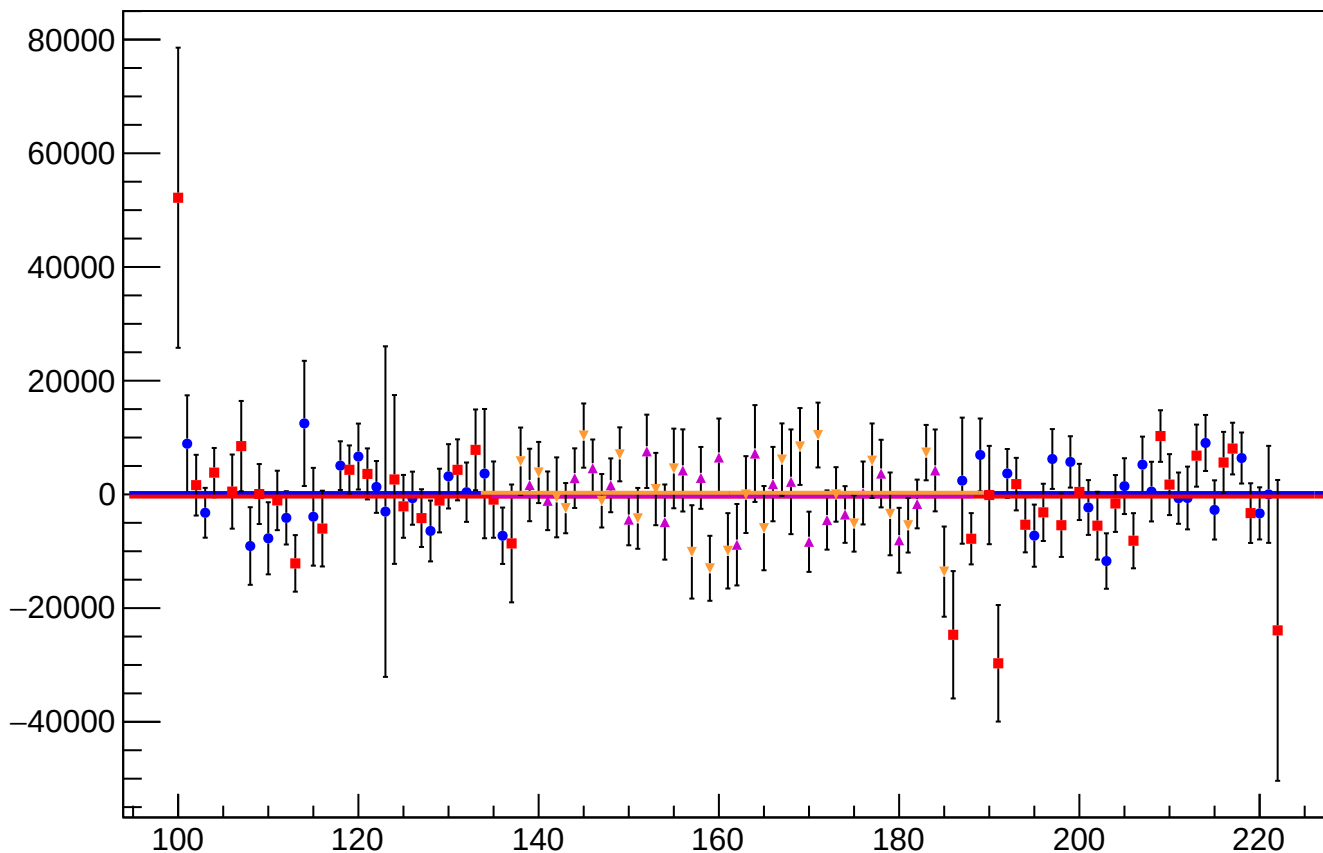
Right: 1518.890 $\pm$ 0.246 χ^2 /NDF: 40789453.8/72

In: 2696.271 $\pm$ 0.378 χ^2 /NDF: 22336498.0/57

Out: 1022.953 $\pm$ 0.201 χ^2 /NDF: 50767661.9/62

All: 1390.899 $\pm$ 0.177 χ^2 /NDF: 88404464.8/122

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 237.748 $\pm$ 916.616 χ^2 /NDF: 34.1/34

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -378.844 $\pm$ 915.797 χ^2 /NDF: 52.6/37

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

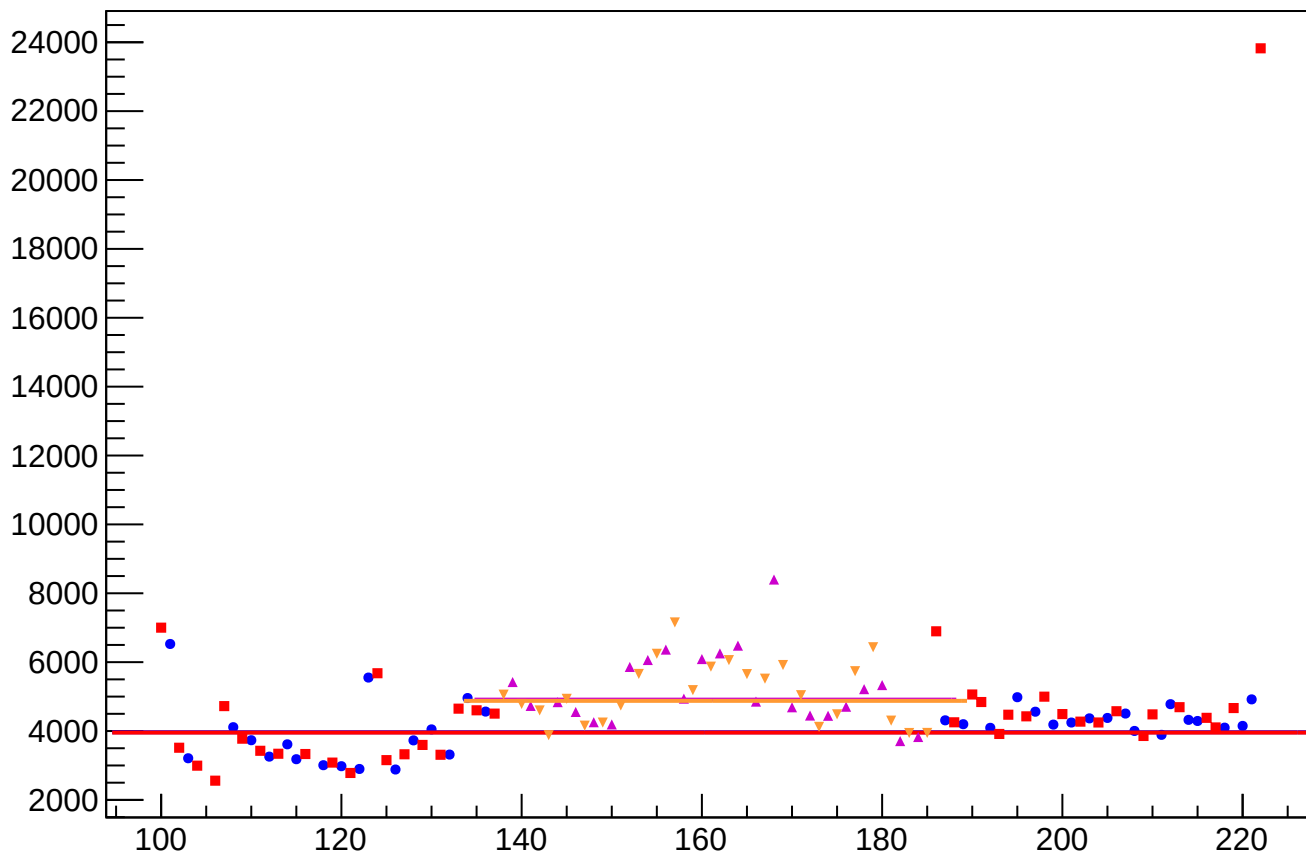
Right: -70.823 $\pm$ 647.855 χ^2 /NDF: 87.0/72

In: 26.748 $\pm$ 727.528 χ^2 /NDF:48.9/57

Out: -121.355 $\pm$ 717.697 χ^2 /NDF:85.3/62

All: -48.311 $\pm$ 510.929 χ^2 /NDF: 134.2/120

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3964.954+/-0.648 χ^2/NDF : 1026483.3/34

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3955.123+/-0.644 χ^2/NDF : 2387320.8/37

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

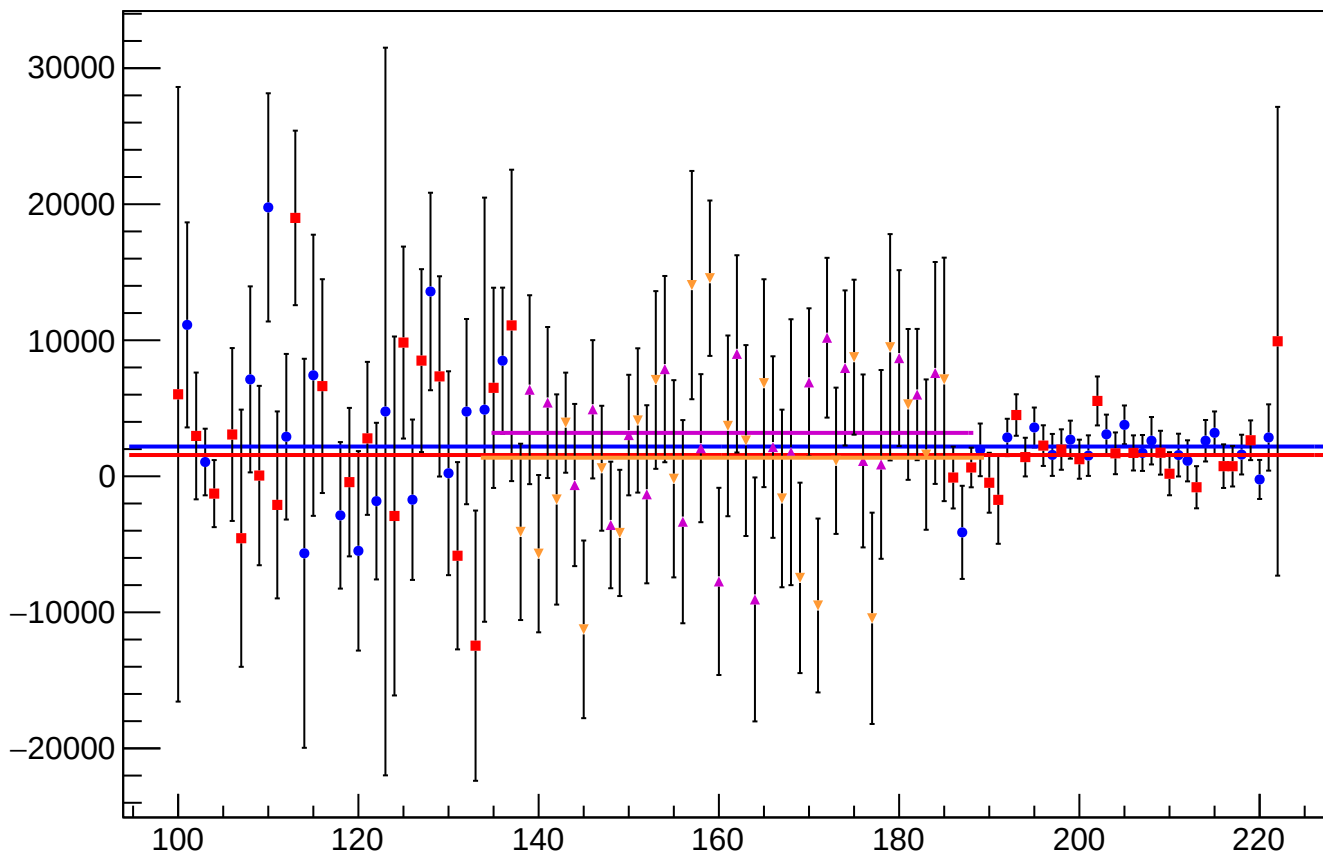
Right: 3960.004+/-0.457 χ^2/NDF : 3413919.9/72

In: 4315.214+/-0.514 χ^2/NDF : 2858890.8/57

Out: 4307.934+/-0.506 χ^2/NDF : 4144809.7/62

All: 4311.511+/-0.361 χ^2/NDF : 7003802.4/12

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2186.859+/-356.346 χ^2/NDF : 25.2/34

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1563.744+/-361.675 χ^2/NDF : 34.0/37

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

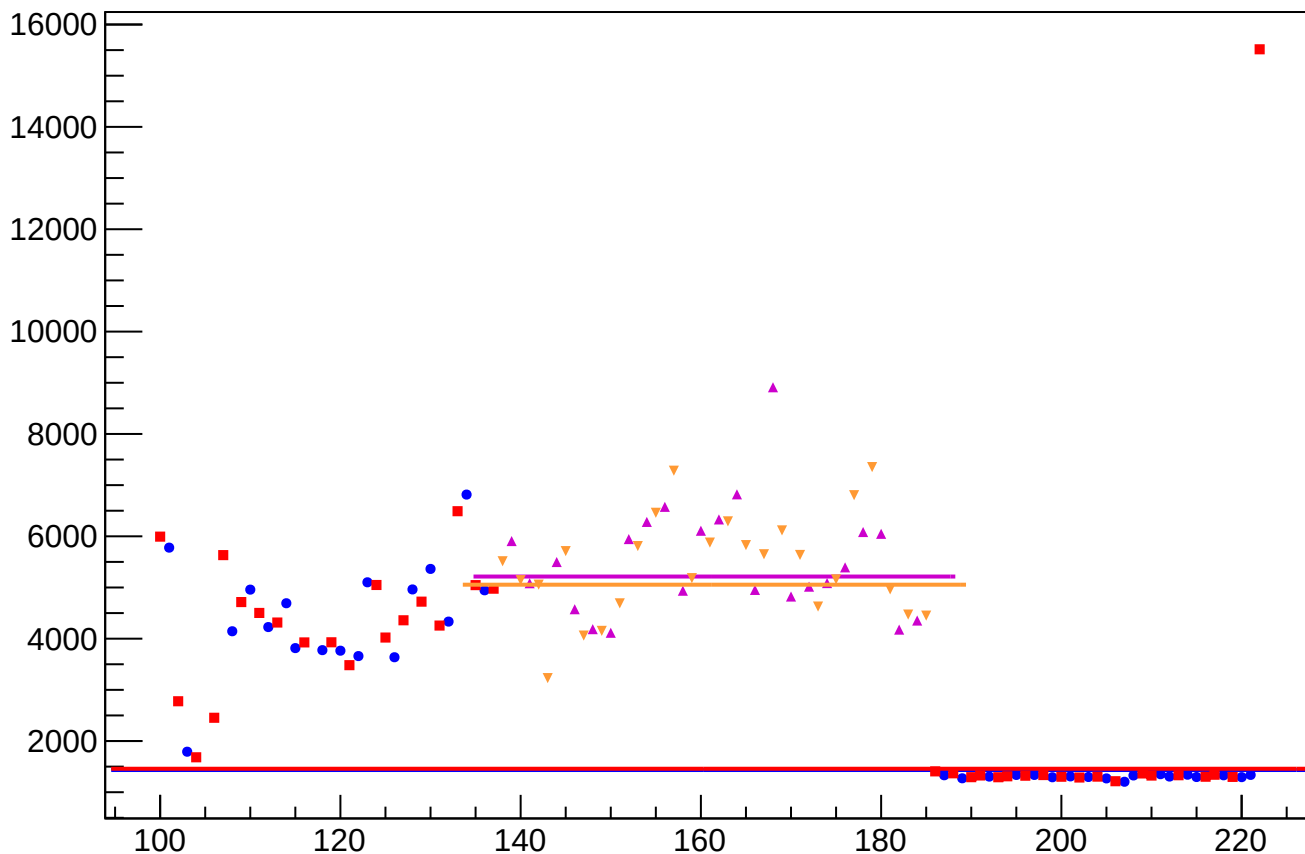
Right: 1879.926+/-253.838 χ^2/NDF : 60.6/72

In: 2260.154+/-343.097 χ^2/NDF : 39.8/57

Out: 1547.358+/-346.438 χ^2/NDF : 61.9/62

All: 1907.211+/-243.779 χ^2/NDF : 103.8/120

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1433.575+/-0.252 χ^2/NDF : 5950790.9/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1458.630+/-0.256 χ^2/NDF : 7197678.6/37

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

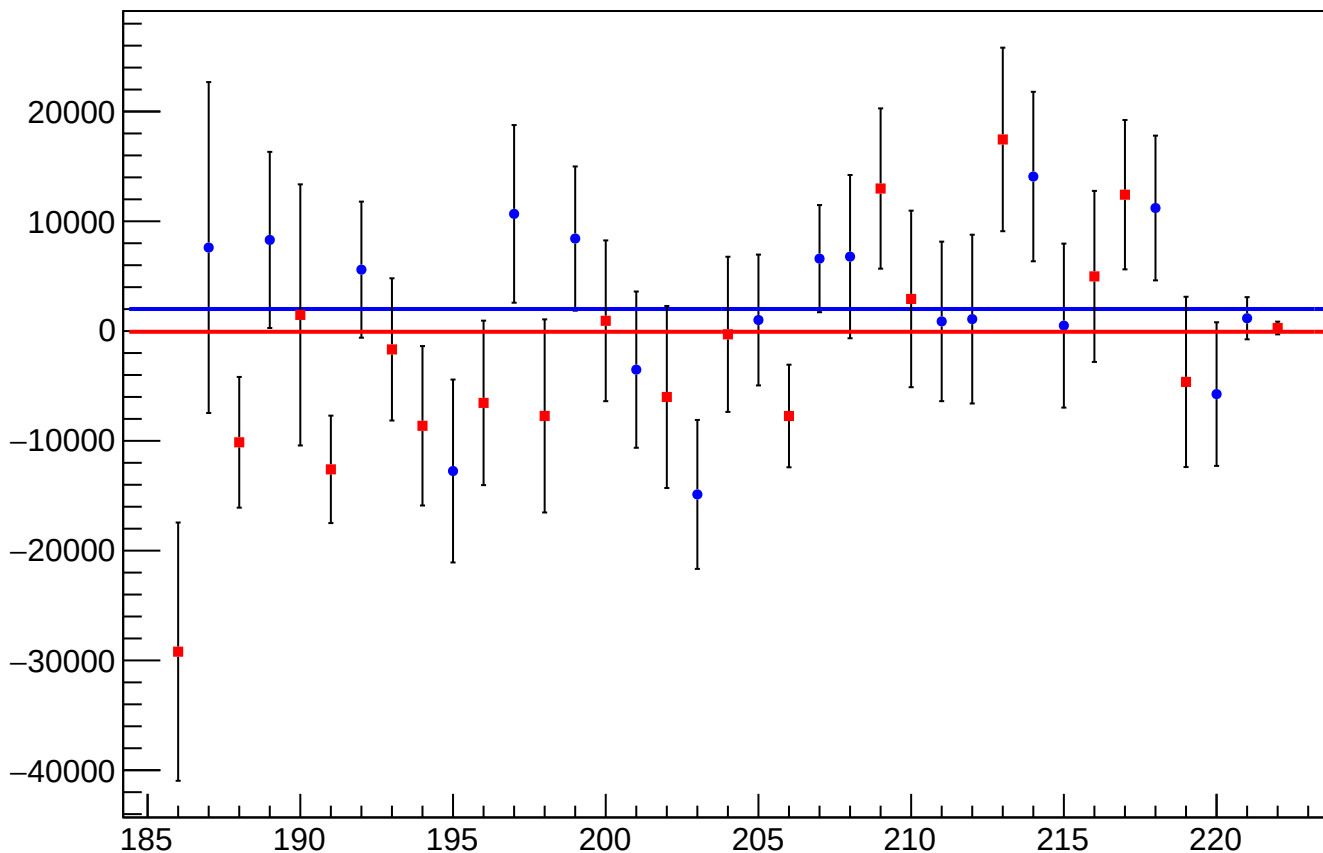
Right: 1445.925+/-0.179 χ^2/NDF : 13153343.0/72

In: 1709.483+/-0.243 χ^2/NDF : 23432079.5/57

Out: 1754.900+/-0.245 χ^2/NDF : 24945175.2/62

All: 1731.984+/-0.172 χ^2/NDF : 48394617.8/121

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2009.617+/-1273.711 χ^2/NDF : 20.5/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -63.363+/-546.332 χ^2/NDF : 34.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

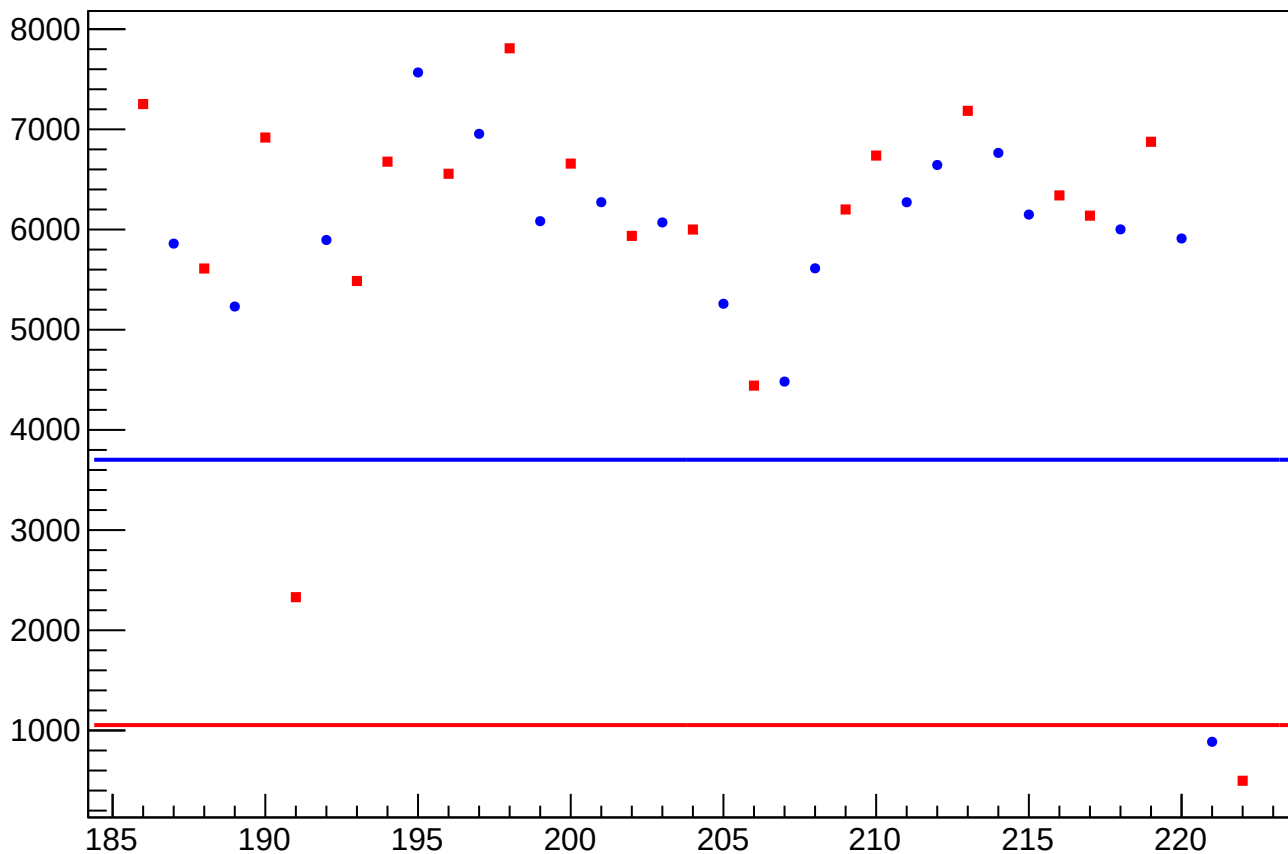
Right: 258.760+/-502.093 χ^2/NDF : 56.7/36

In: 2009.617+/-1273.711 χ^2/NDF : 20.5/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 258.760+/-502.093 χ^2/NDF : 56.7/36

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 3702.067+/-0.901 χ^2/NDF : 8044156.9/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1053.590+/-0.386 χ^2/NDF : 18724085.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

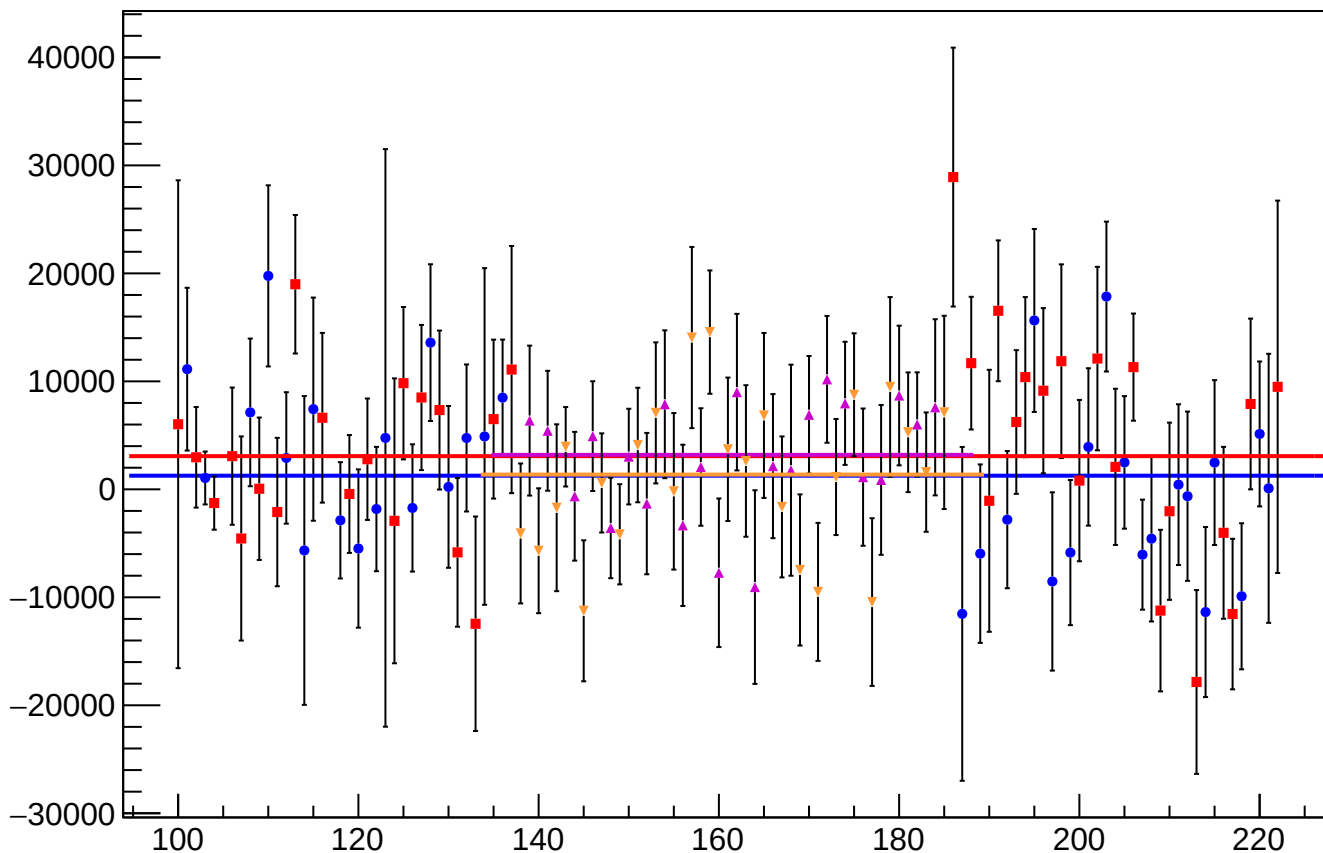
Right: 1465.140+/-0.355 χ^2/NDF : 34071834.1/36

In: 3702.067+/-0.901 χ^2/NDF : 8044156.9/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1465.140+/-0.355 χ^2/NDF : 34071834.1/36

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1261.986+/-1113.942 χ^2/NDF : 36.5/34

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3071.994+/-1084.706 χ^2/NDF : 51.8/37

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

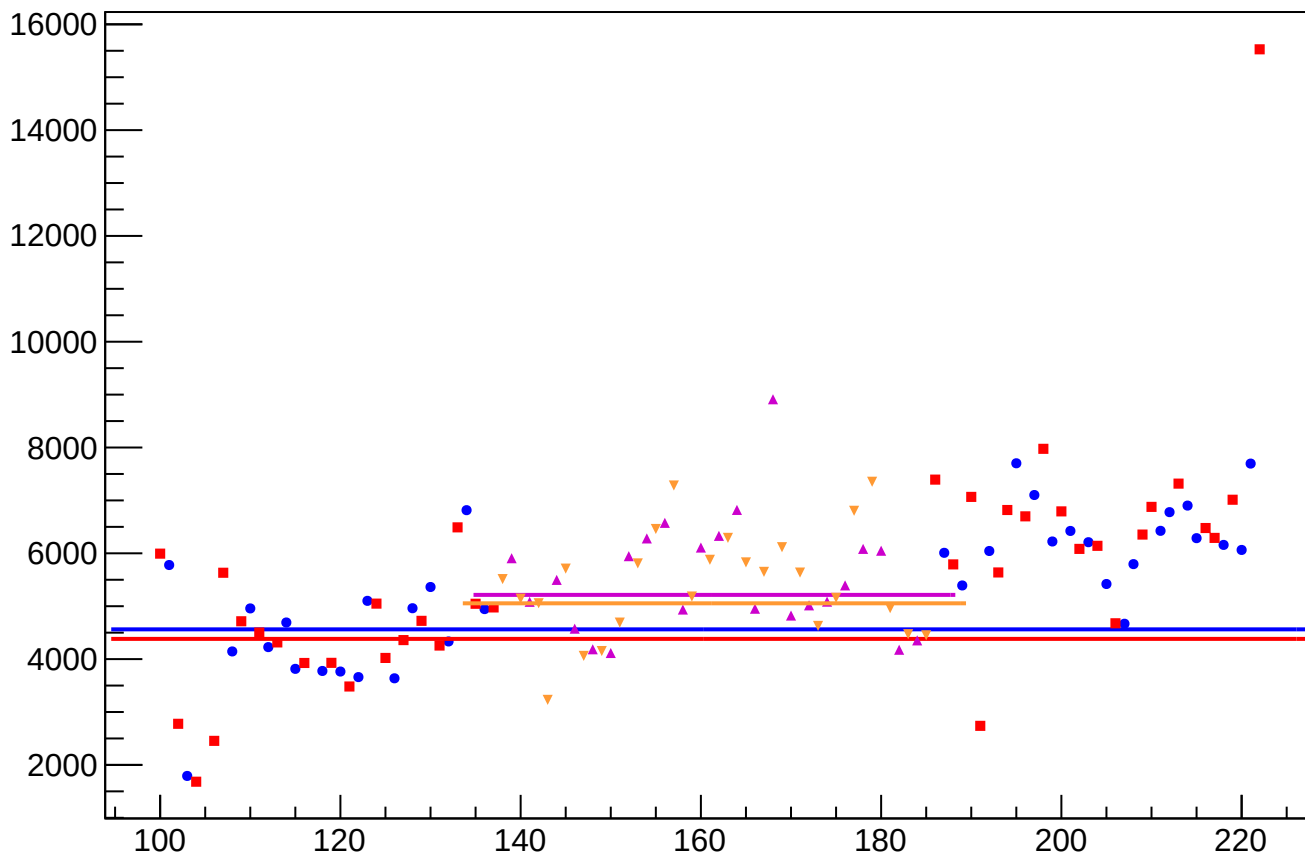
Right: 2191.053+/-777.133 χ^2/NDF : 89.7/72

In: 2100.808+/-837.453 χ^2/NDF : 51.8/57

Out: 2308.854+/-806.566 χ^2/NDF : 80.9/62

All: 2208.738+/-580.941 χ^2/NDF : 132.8/120

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4562.590+/-0.788 χ^2/NDF : 4859552.3/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4382.203+/-0.763 χ^2/NDF : 6711059.8/37

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

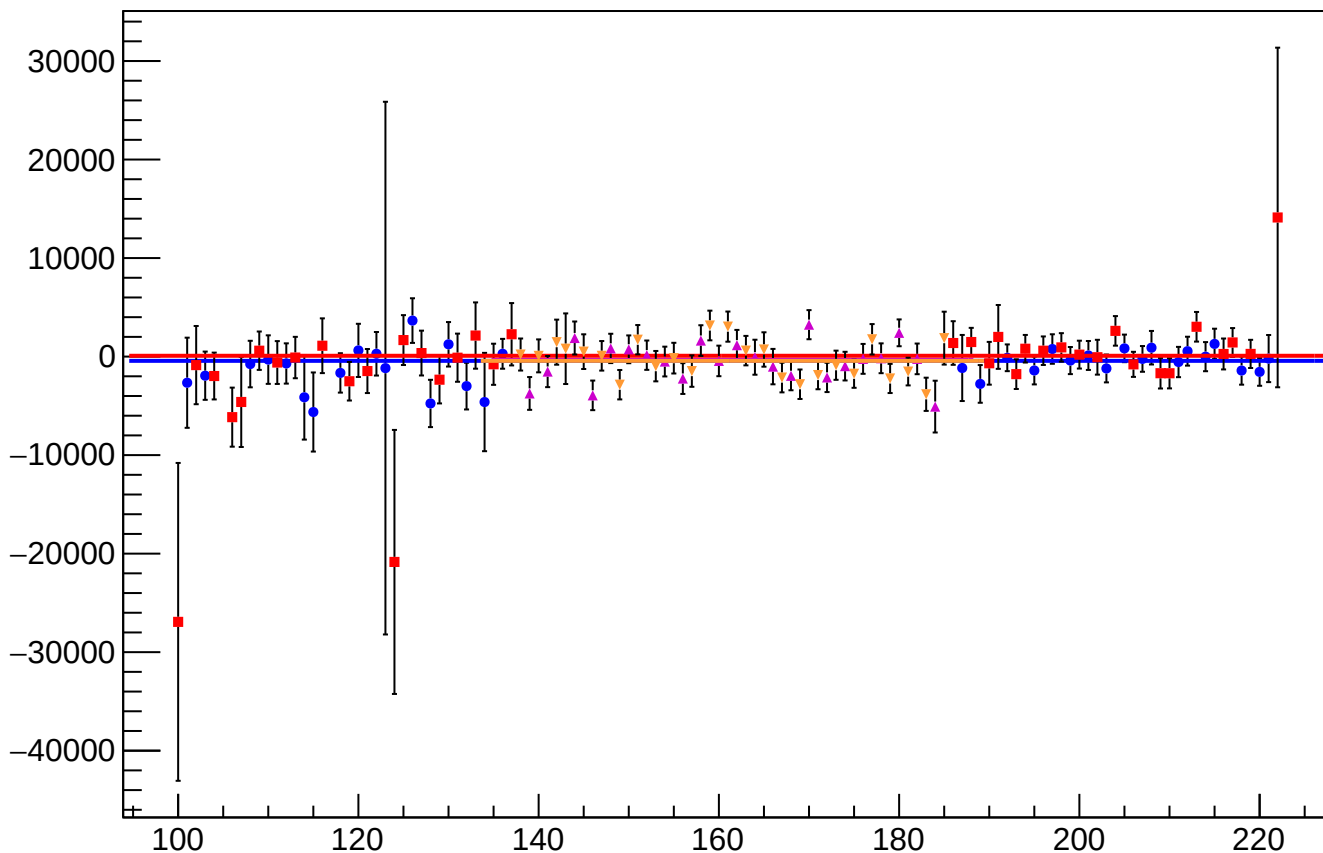
Right: 4469.487+/-0.548 χ^2/NDF : 11597682.0/72

In: 4845.876+/-0.592 χ^2/NDF : 6209547.3/57

Out: 4680.982+/-0.569 χ^2/NDF : 8493744.4/62

All: 4760.073+/-0.410 χ^2/NDF : 14743640.1/131

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -432.085+/-309.453 χ^2/NDF : 20.4/34

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 82.531+/-312.480 χ^2/NDF : 31.8/37

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

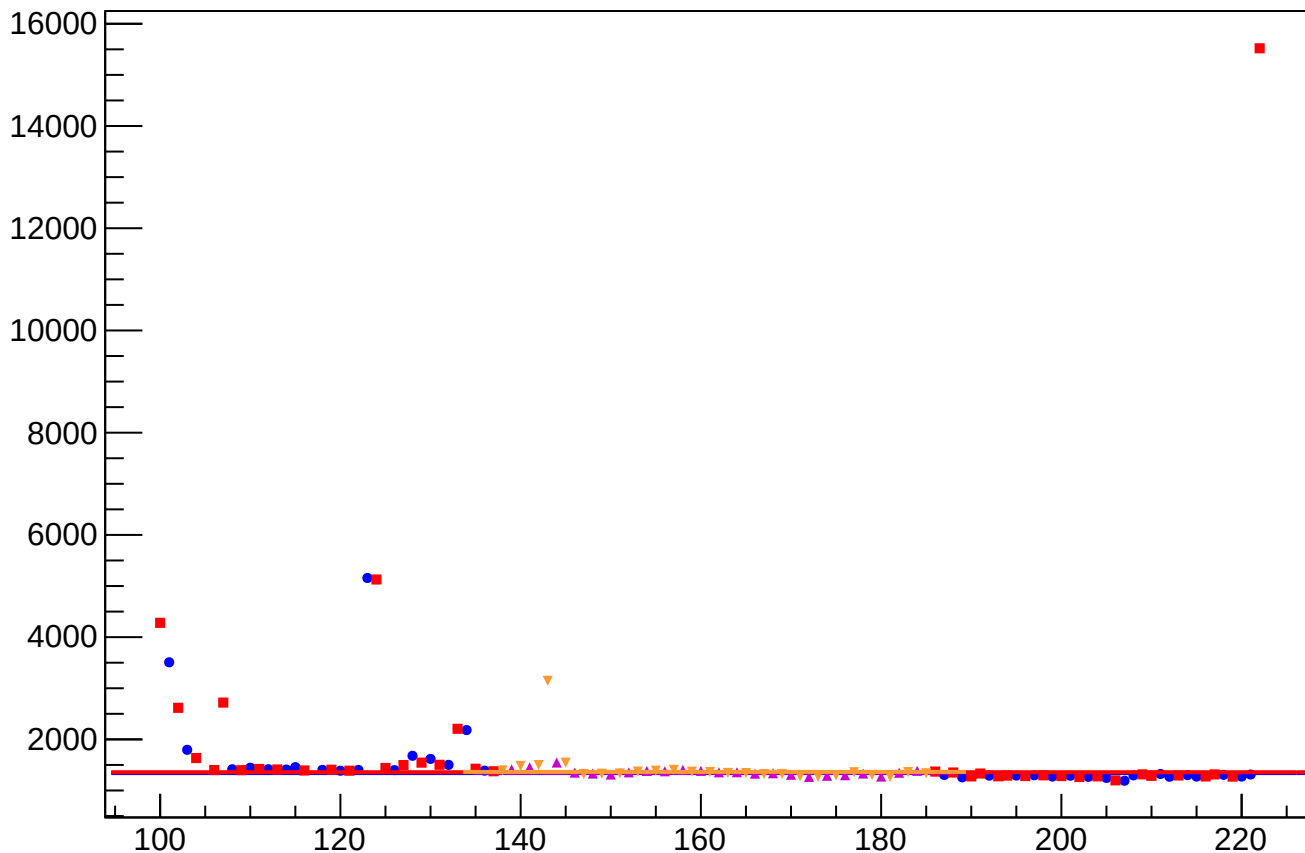
Right: -177.281+/-219.879 χ^2/NDF : 53.5/72

In: -389.989+/-223.904 χ^2/NDF :54.2/57

Out: -168.045+/-223.752 χ^2/NDF :66.2/62

All: -278.942+/-158.270 χ^2/NDF : 120.8/120

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1340.448 $\pm$ 0.219 χ^2 /NDF: 788523.7/34

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1357.519 $\pm$ 0.221 χ^2 /NDF: 2240509.6/37

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

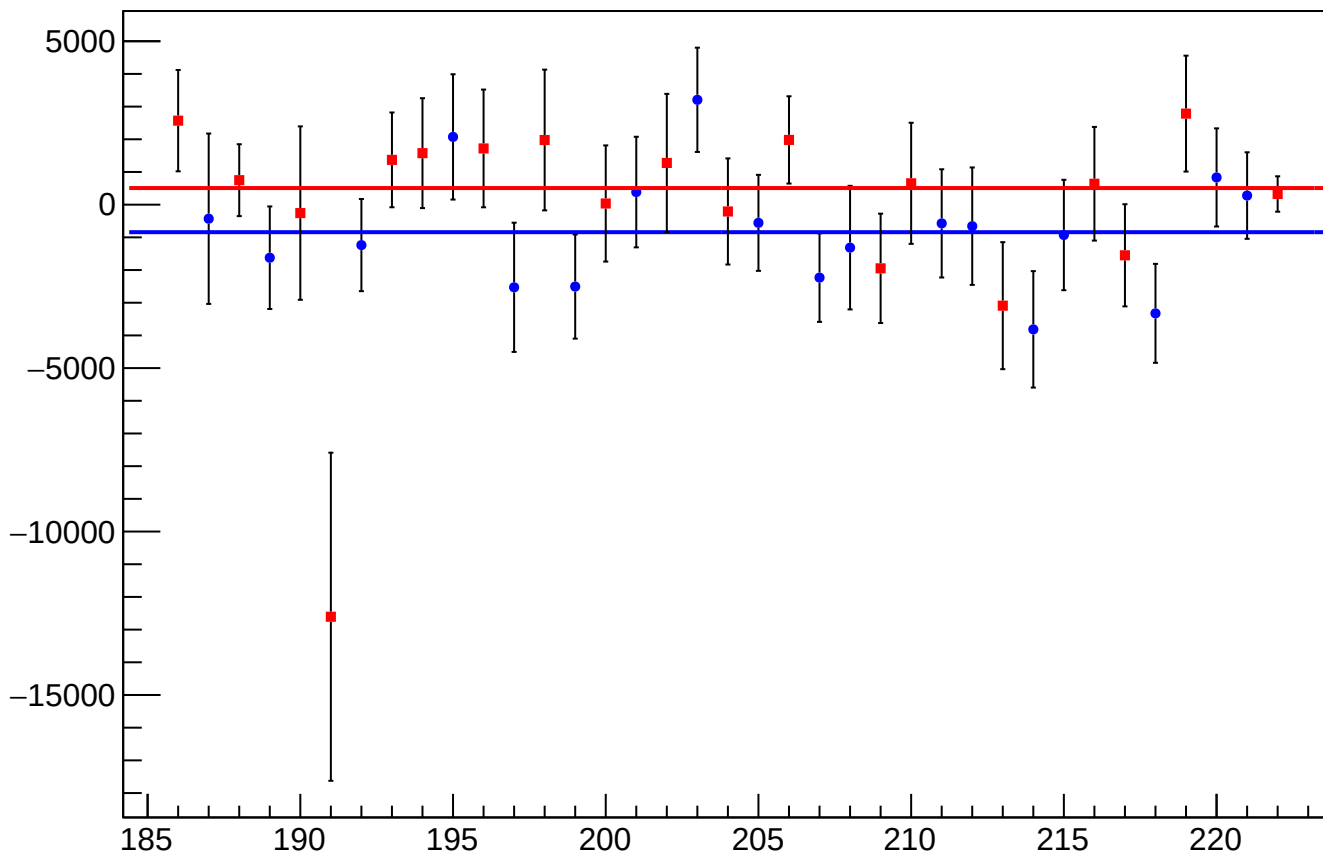
Right: 1348.900 $\pm$ 0.155 χ^2 /NDF: 3032046.9/72

In: 1345.432 $\pm$ 0.158 χ^2 /NDF: 856757.2/57

Out: 1360.463 $\pm$ 0.158 χ^2 /NDF: 2816100.6/62

All: 1352.953 $\pm$ 0.112 χ^2 /NDF: 3677367.4/12

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -841.922+/-383.433 χ^2/NDF : 20.1/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 508.274+/-322.060 χ^2/NDF : 21.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

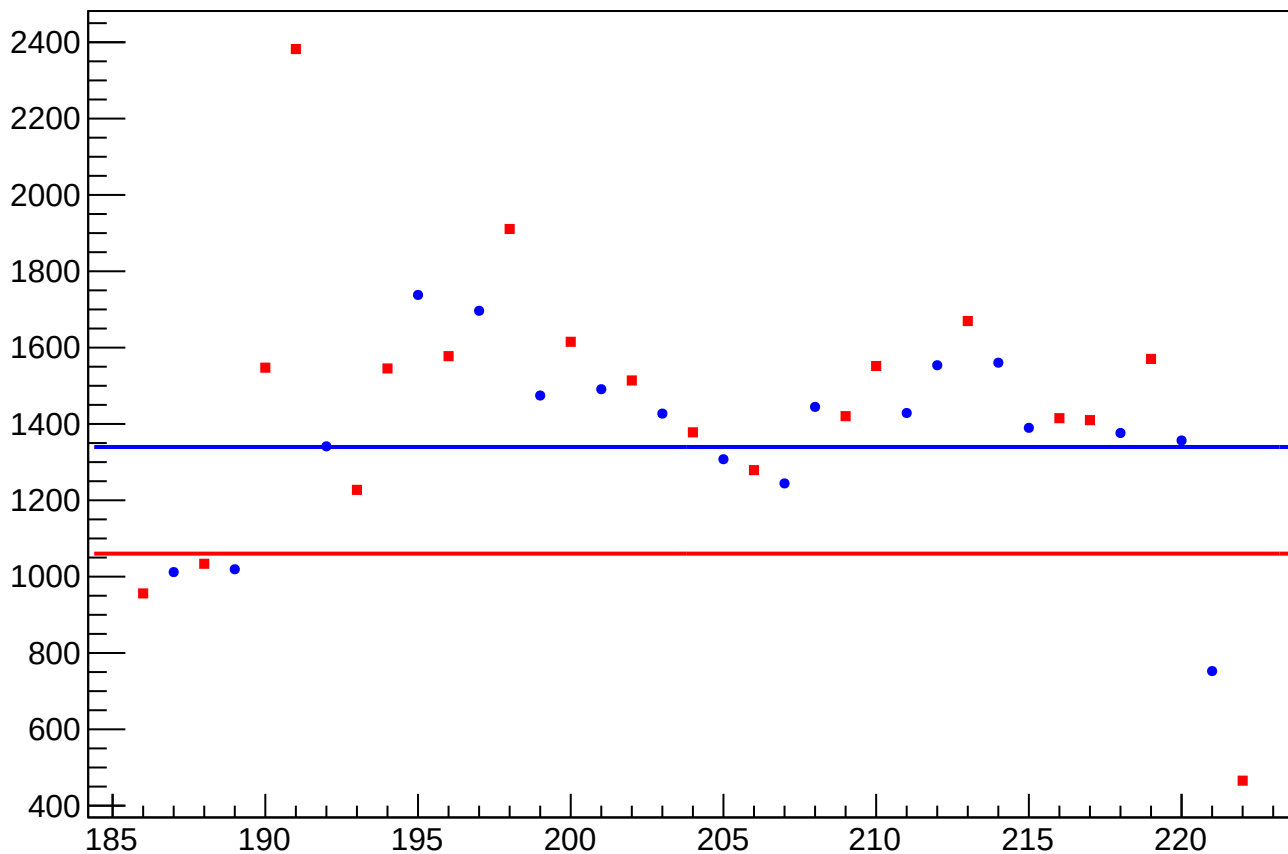
Right: -50.248+/-246.611 χ^2/NDF : 48.5/36

In: -841.922+/-383.433 χ^2/NDF : 20.1/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -50.248+/-246.611 χ^2/NDF : 48.5/36

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1339.640 $\pm$ 0.271 χ^2 /NDF: 781522.1/17

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 1060.310 $\pm$ 0.228 χ^2 /NDF: 4495481.4/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

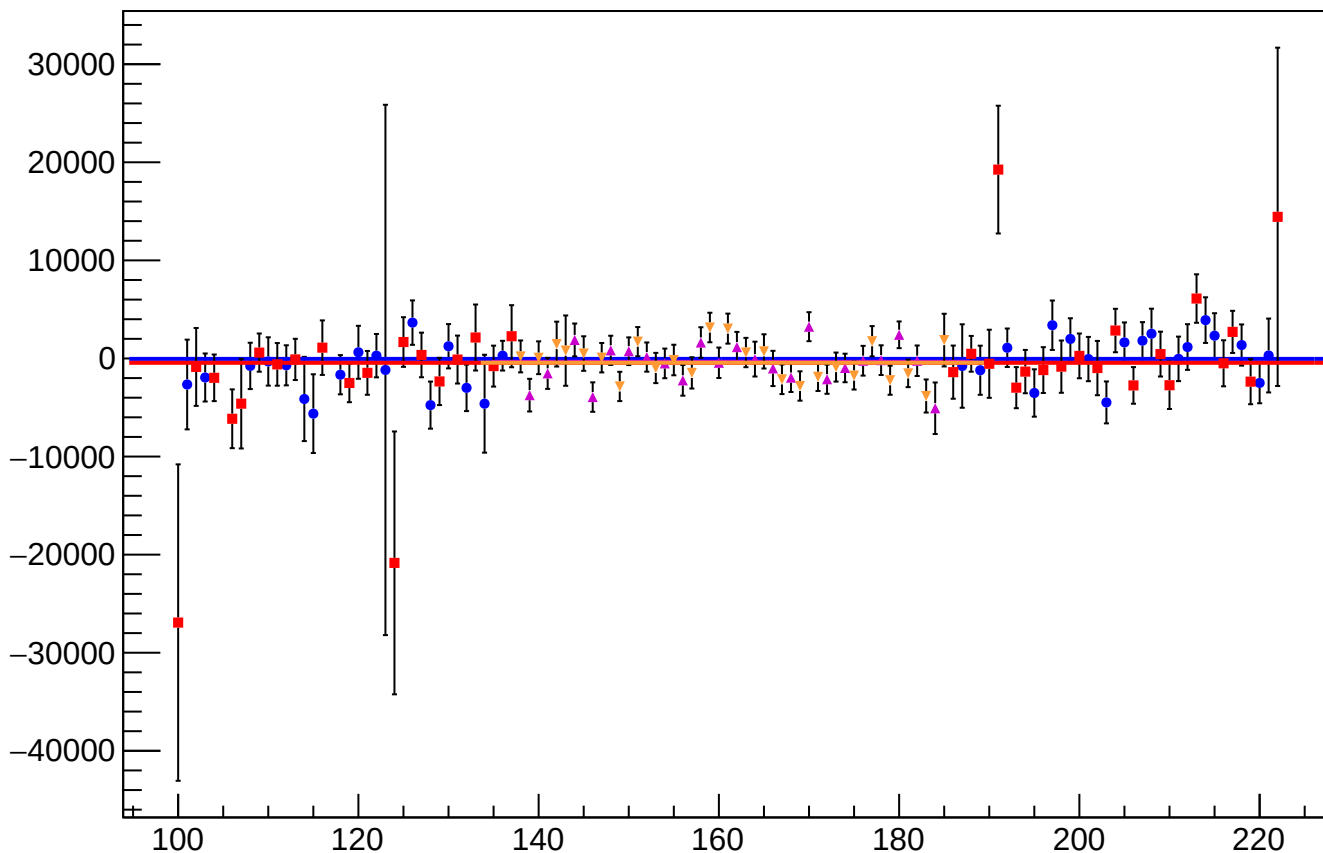
Right: 1175.858 $\pm$ 0.174 χ^2 /NDF: 5899356.4/36

In: 1339.640 $\pm$ 0.271 χ^2 /NDF:781522.1/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 1175.858 $\pm$ 0.174 χ^2 /NDF: 5899356.4/36

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -44.003 ± 403.932 $\chi^2/\text{NDF}: 32.5/34$

Left Out: -431.715 ± 320.540 $\chi^2/\text{NDF}: 33.1/24$

Right Out: -442.779 ± 406.938 $\chi^2/\text{NDF}: 41.5/37$

Left In: -343.737 ± 324.368 $\chi^2/\text{NDF}: 33.8/22$

Left: -388.248 ± 227.997 $\chi^2/\text{NDF}: 66.9/47$

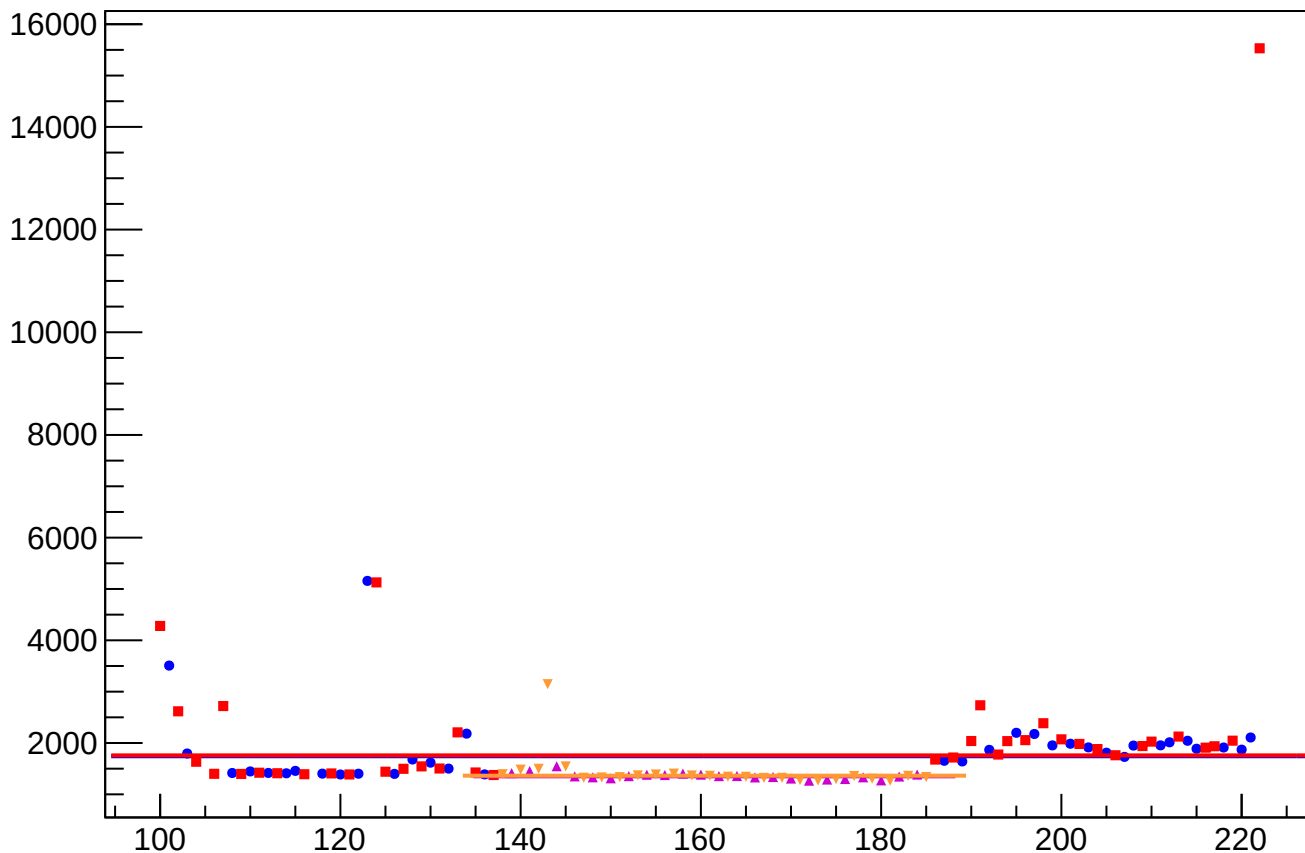
Right: -241.913 ± 286.680 $\chi^2/\text{NDF}: 74.4/72$

In: -226.228 ± 252.915 $\chi^2/\text{NDF}: 66.6/57$

Out: -435.951 ± 251.805 $\chi^2/\text{NDF}: 74.5/62$

All: -331.551 ± 178.444 $\chi^2/\text{NDF}: 141.5/120$

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1741.630+/-0.286 χ^2/NDF : 1149575.8/34

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1758.935+/-0.288 χ^2/NDF : 2630951.8/37

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

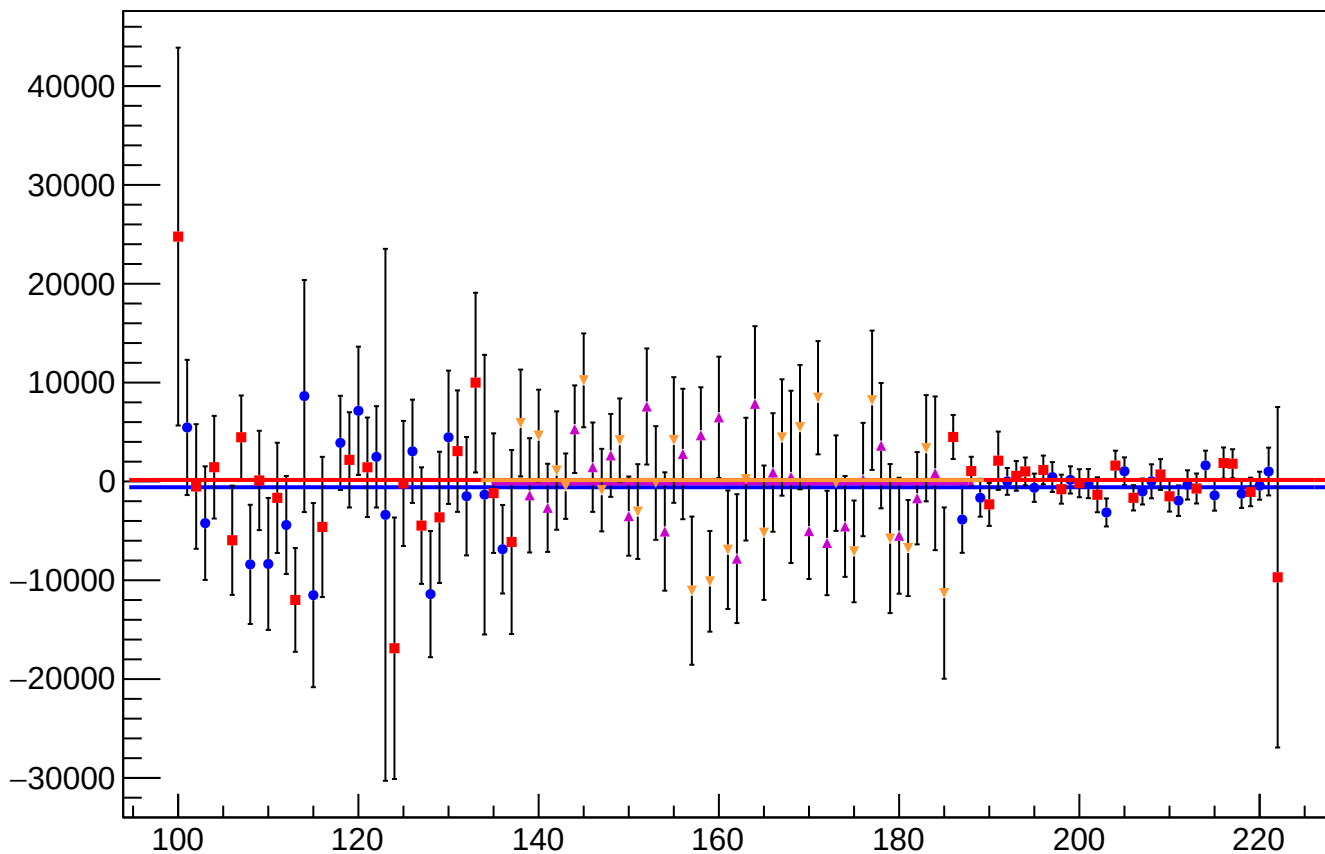
Right: 1750.219+/-0.203 χ^2/NDF : 3782349.3/72

In: 1504.089+/-0.179 χ^2/NDF : 2354403.0/57

Out: 1514.946+/-0.178 χ^2/NDF : 4371261.0/62

All: 1509.541+/-0.126 χ^2/NDF : 6727515.2/12

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -588.464 ± 351.962 $\chi^2/\text{NDF}: 26.4/34$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 150.108 ± 355.899 $\chi^2/\text{NDF}: 30.6/37$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

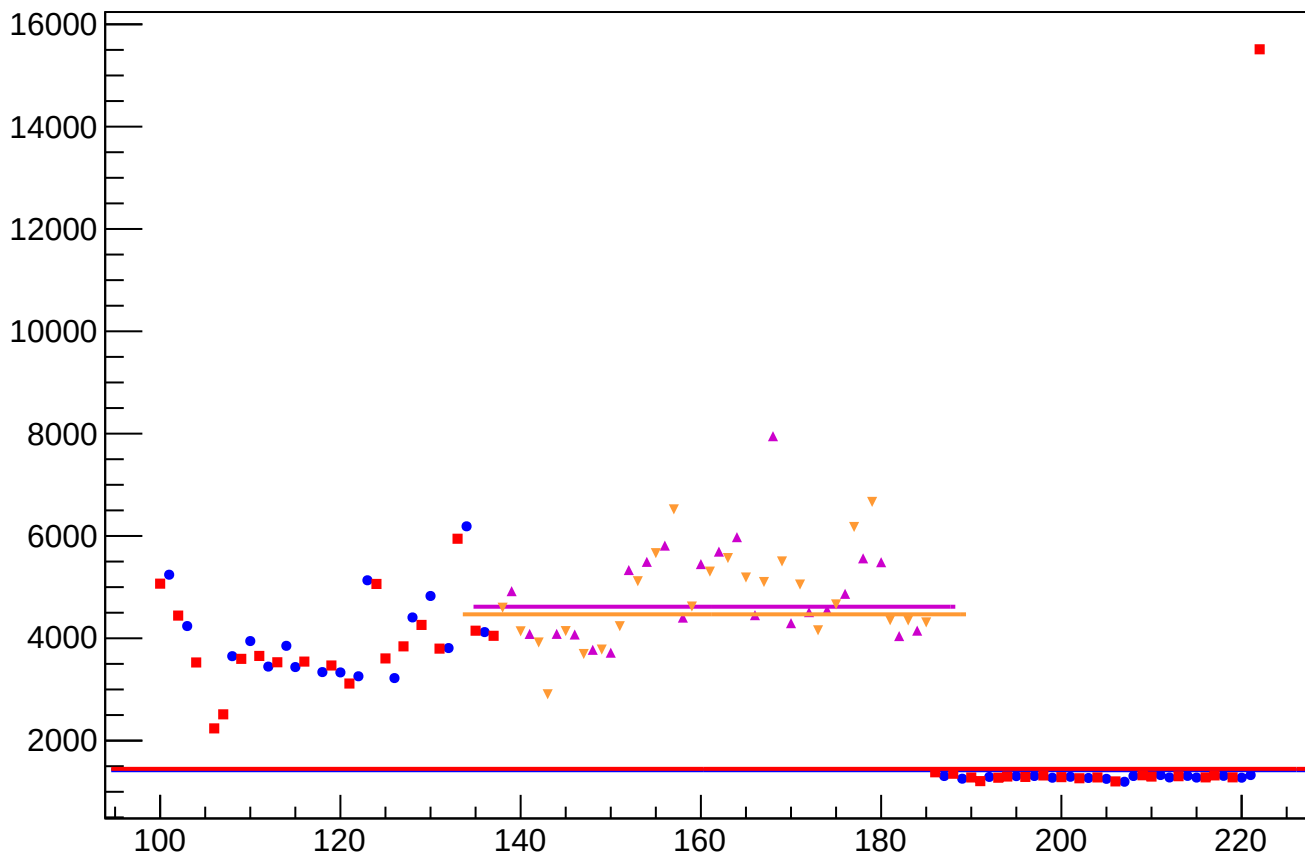
Right: -223.286 ± 250.255 $\chi^2/\text{NDF}: 59.2/72$

In: -553.763 ± 335.867 $\chi^2/\text{NDF}: 41.2/57$

Out: 148.305 ± 337.567 $\chi^2/\text{NDF}: 58.7/62$

All: -204.502 ± 238.093 $\chi^2/\text{NDF}: 102.1/120$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1421.528 $\pm$ 0.249 χ^2/NDF : 5733682.9/34

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 1448.716 $\pm$ 0.252 χ^2/NDF : 6887265.2/37

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

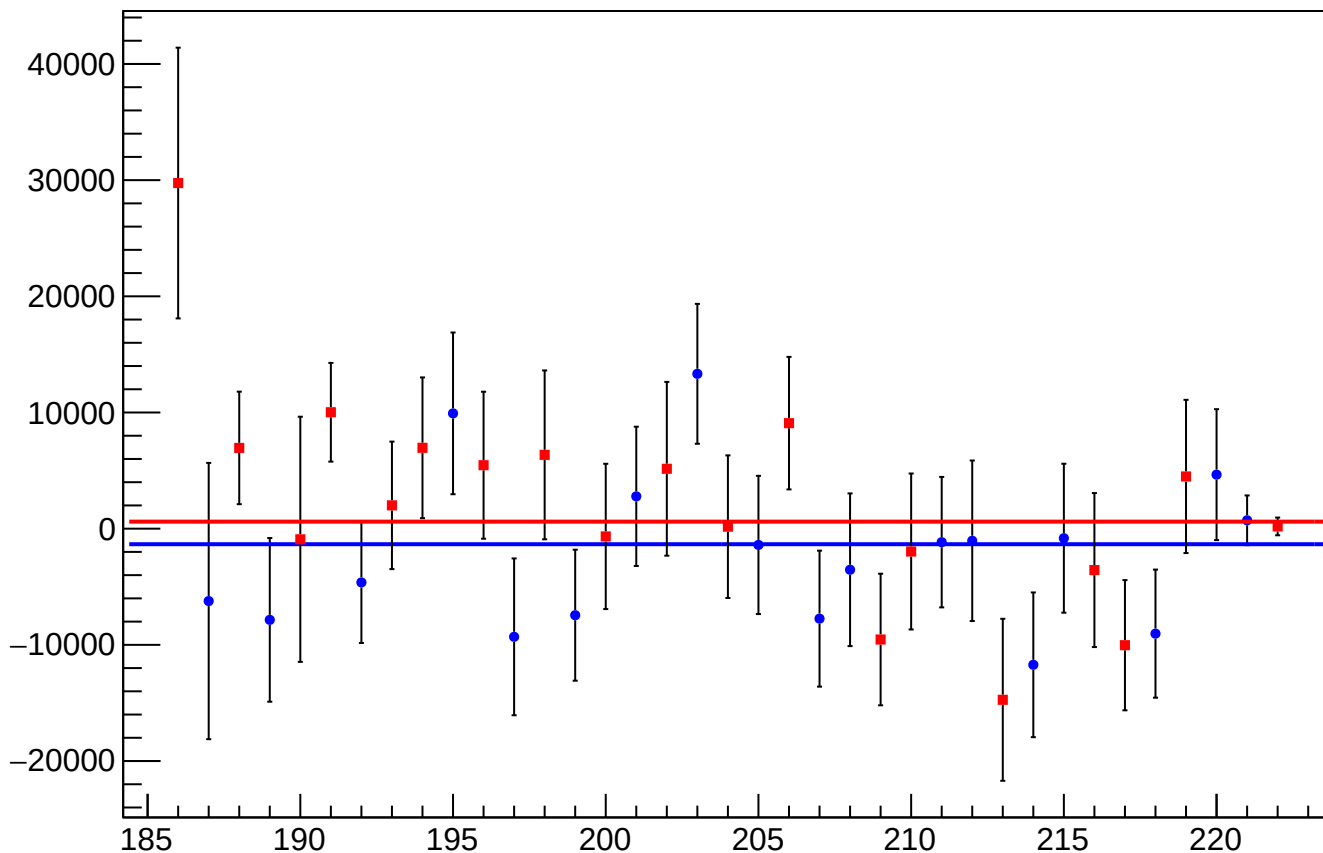
Right: 1434.979 $\pm$ 0.177 χ^2/NDF : 12626852.8/72

In: 1707.130 $\pm$ 0.237 χ^2/NDF : 21469177.1/57

Out: 1751.461 $\pm$ 0.239 χ^2/NDF : 22721125.3/62

All: 1729.196 $\pm$ 0.168 χ^2/NDF : 44207645.5/119

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1337.830 ± 1231.197 χ^2/NDF : 21.1/17

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.0/0

Right Out: 605.919 ± 675.846 χ^2/NDF : 30.7/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.0/0

Left: 0.000 ± 0.000 χ^2/NDF : 0.0/0

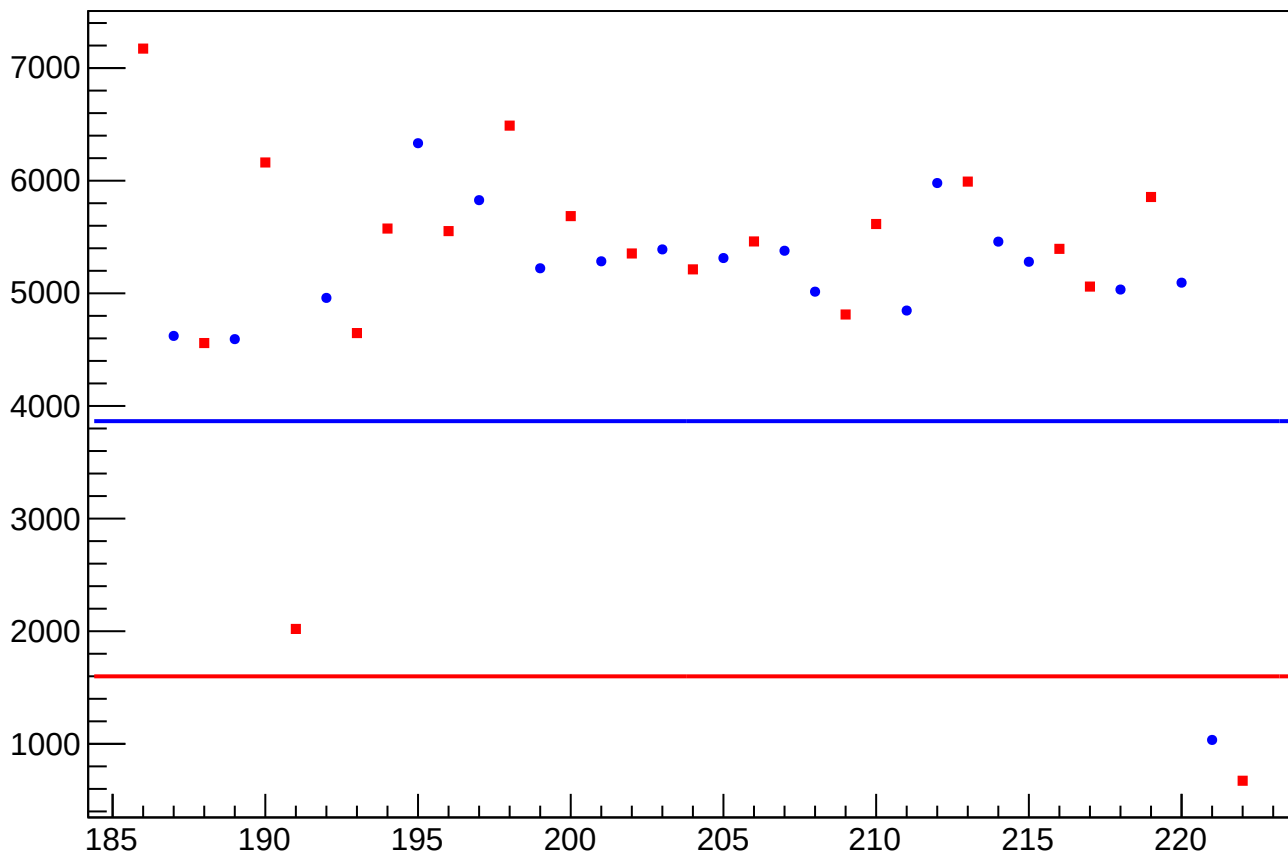
Right: 155.834 ± 592.454 χ^2/NDF : 53.8/36

In: -1337.830 ± 1231.197 χ^2/NDF : 21.1/17

Out: 0.000 ± 0.000 χ^2/NDF : 0.0/0

All: 155.834 ± 592.454 χ^2/NDF : 53.8/36

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 3865.174+/-0.871 χ^2/NDF : 5369833.1/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1599.431+/-0.478 χ^2/NDF : 15087058.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

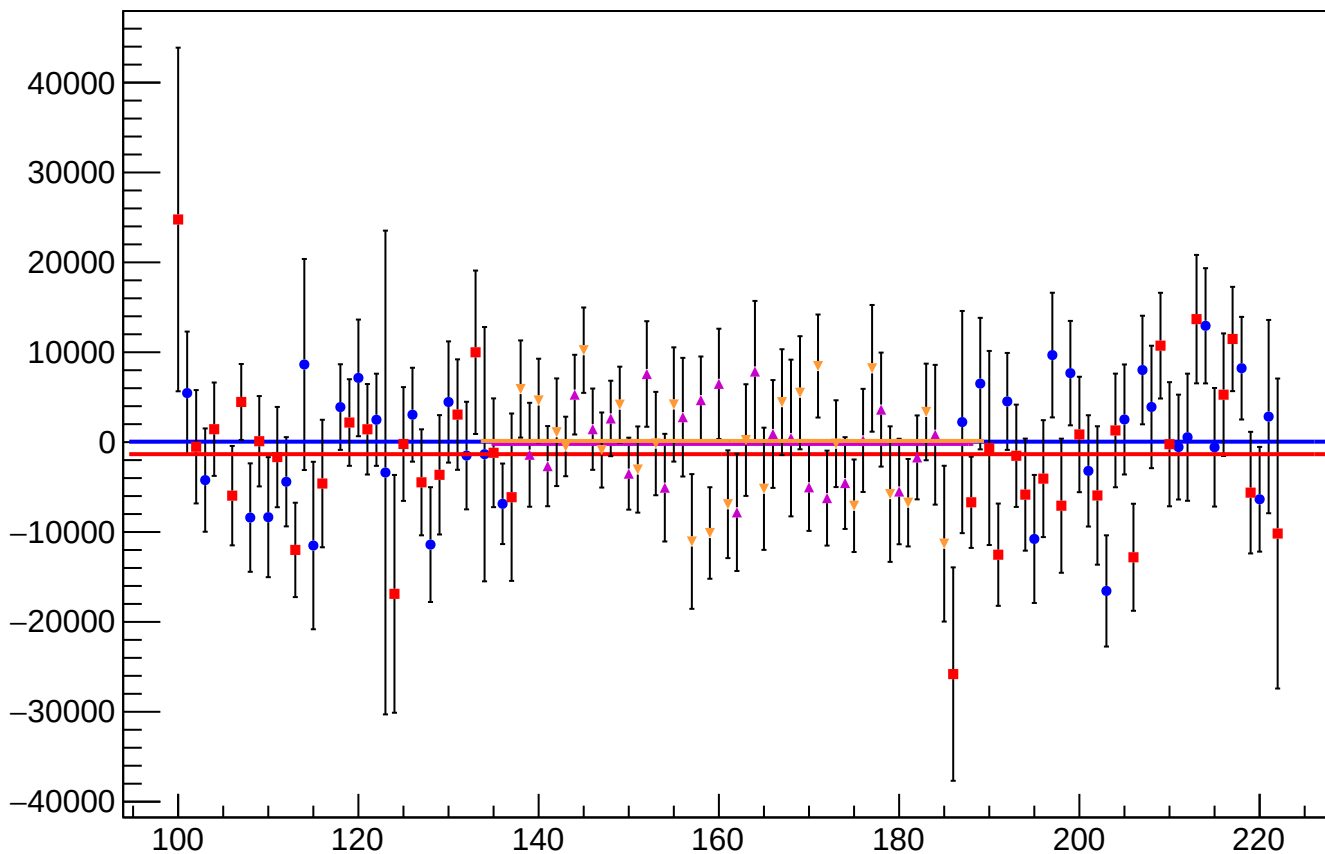
Right: 2124.075+/-0.419 χ^2/NDF : 25661750.8/36

In: 3865.174+/-0.871 χ^2/NDF : 5369833.1/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 2124.075+/-0.419 χ^2/NDF : 25661750.8/36

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 51.835 ± 1080.047 χ^2/NDF : 40.7/34

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: -1338.660 ± 1027.327 χ^2/NDF : 44.2/37

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

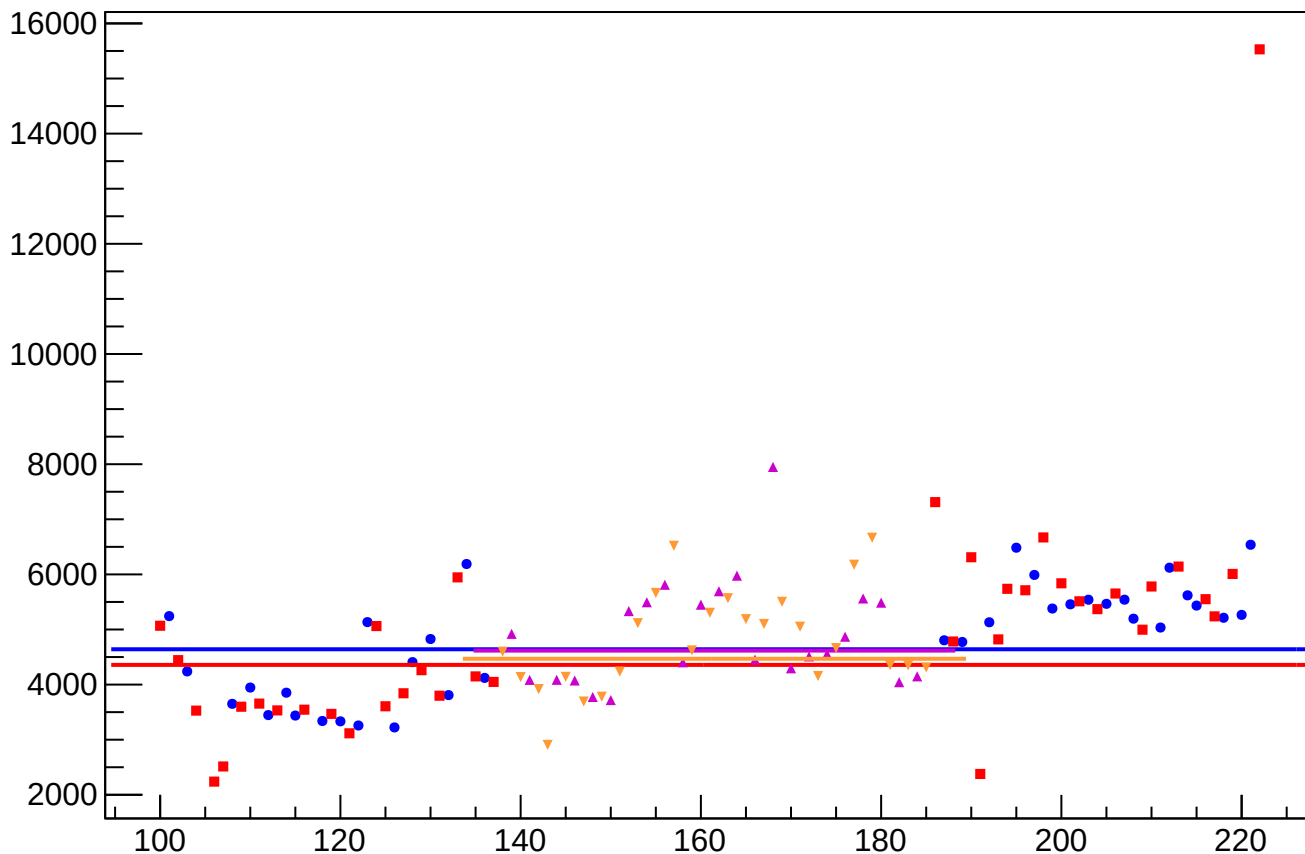
Right: -678.177 ± 744.370 χ^2/NDF : 85.7/72

In: -69.206 ± 778.617 χ^2/NDF : 55.5/57

Out: -630.107 ± 739.571 χ^2/NDF : 73.3/62

All: -364.072 ± 536.228 χ^2/NDF : 129.0/120

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4641.292 $\pm$ 0.764 χ^2 /NDF: 1585292.2/34

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 4357.685 $\pm$ 0.723 χ^2 /NDF: 3722246.3/37

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

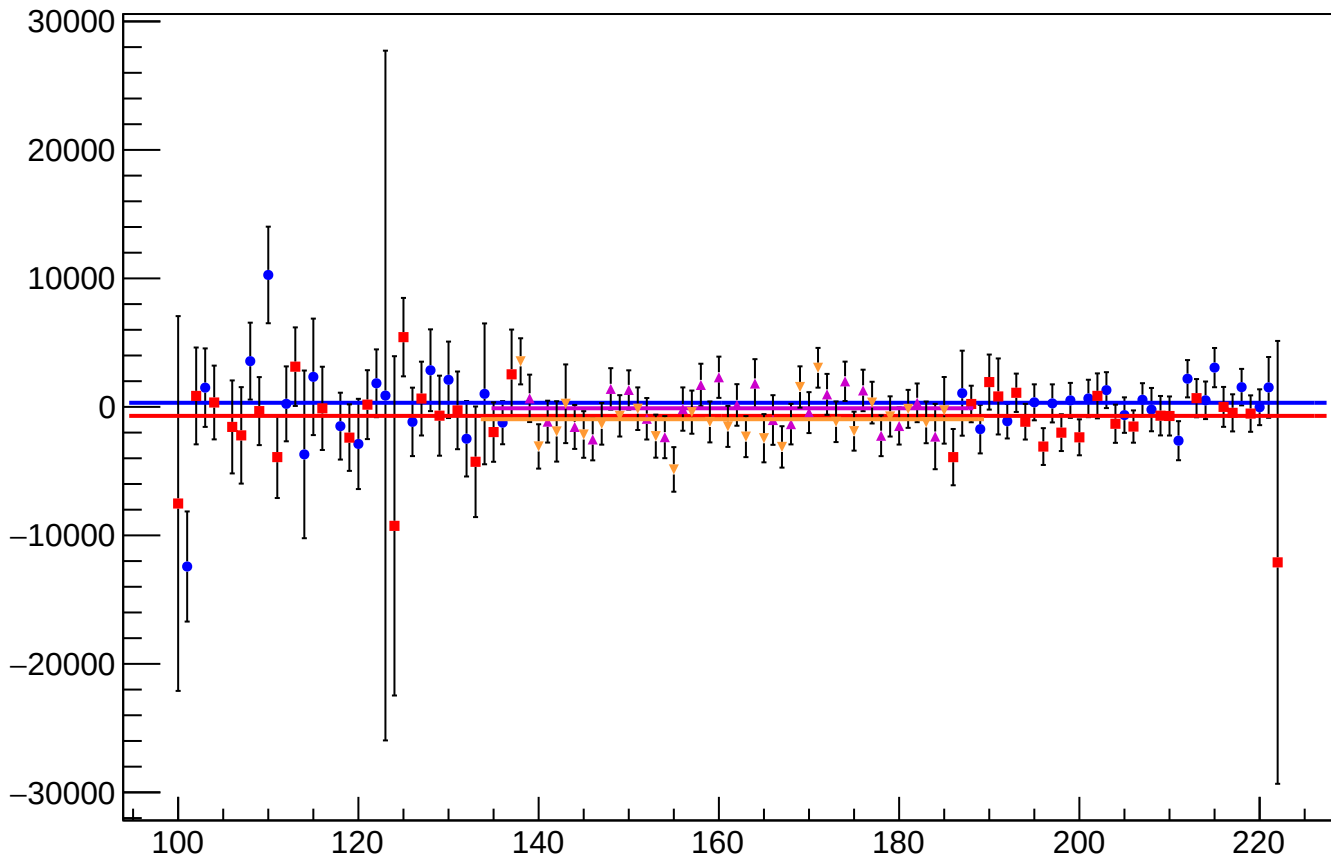
Right: 4491.678 $\pm$ 0.525 χ^2 /NDF: 5380290.1/72

In: 4629.766 $\pm$ 0.551 χ^2 /NDF: 2585366.3/57

Out: 4410.797 $\pm$ 0.522 χ^2 /NDF: 5114116.9/62

All: 4514.365 $\pm$ 0.379 χ^2 /NDF: 7782847.4/12

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 319.830 ± 321.951 χ^2/NDF : 35.7/34

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -699.880 ± 325.247 χ^2/NDF : 24.3/37

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

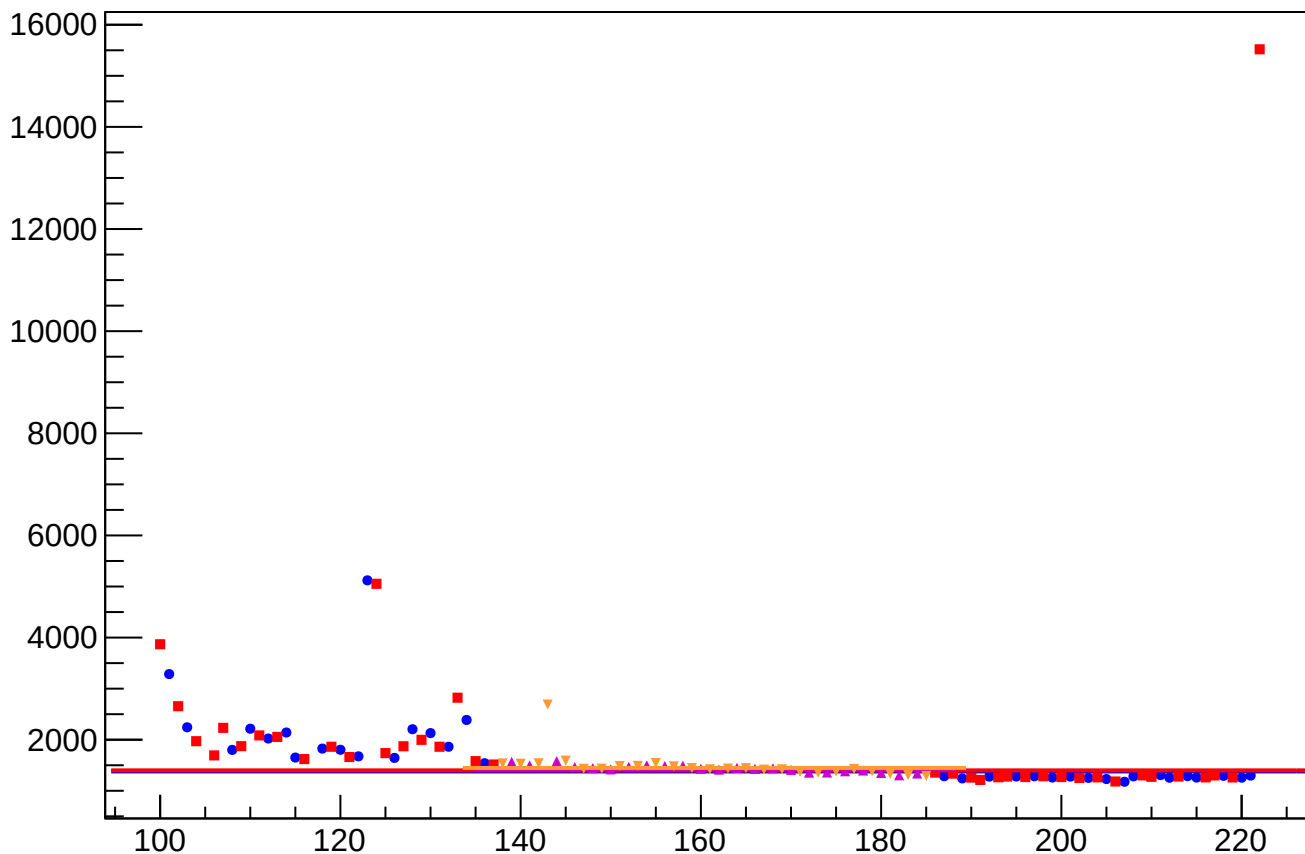
Right: -184.831 ± 228.810 χ^2/NDF : 65.0/72

In: 120.084 ± 234.955 χ^2/NDF : 56.0/57

Out: -823.606 ± 234.860 χ^2/NDF : 53.1/62

All: -351.950 ± 166.105 χ^2/NDF : 117.2/120

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1378.856 $\pm$ 0.228 χ^2 /NDF: 1627135.3/34

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1399.967 $\pm$ 0.230 χ^2 /NDF: 3010186.1/37

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

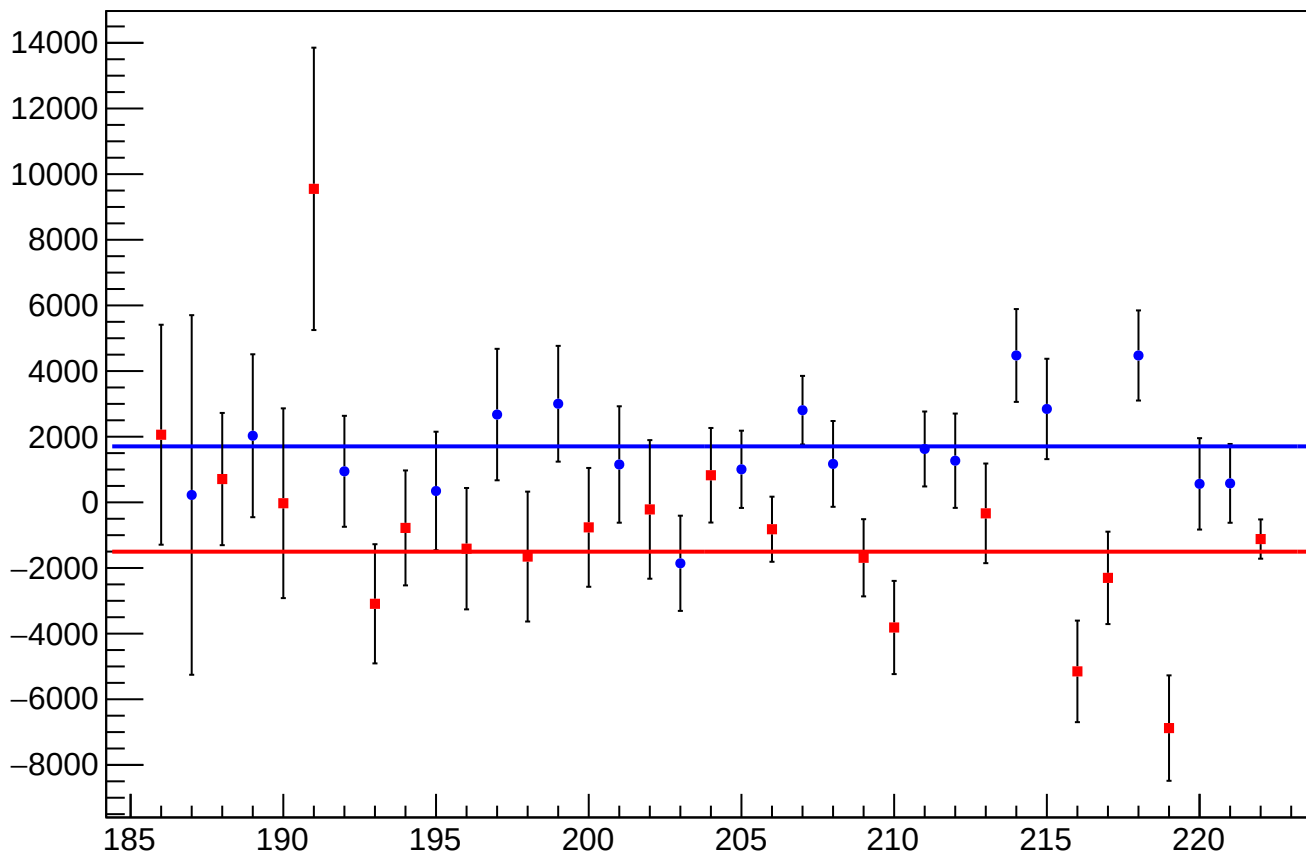
Right: 1389.304 $\pm$ 0.162 χ^2 /NDF: 4641577.2/72

In: 1403.442 $\pm$ 0.166 χ^2 /NDF: 1727218.7/57

Out: 1422.741 $\pm$ 0.166 χ^2 /NDF: 3449931.1/62

All: 1413.095 $\pm$ 0.117 χ^2 /NDF: 5183899.4/12

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1705.260+/-345.921 χ^2/NDF : 19.5/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1502.765+/-324.950 χ^2/NDF : 34.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

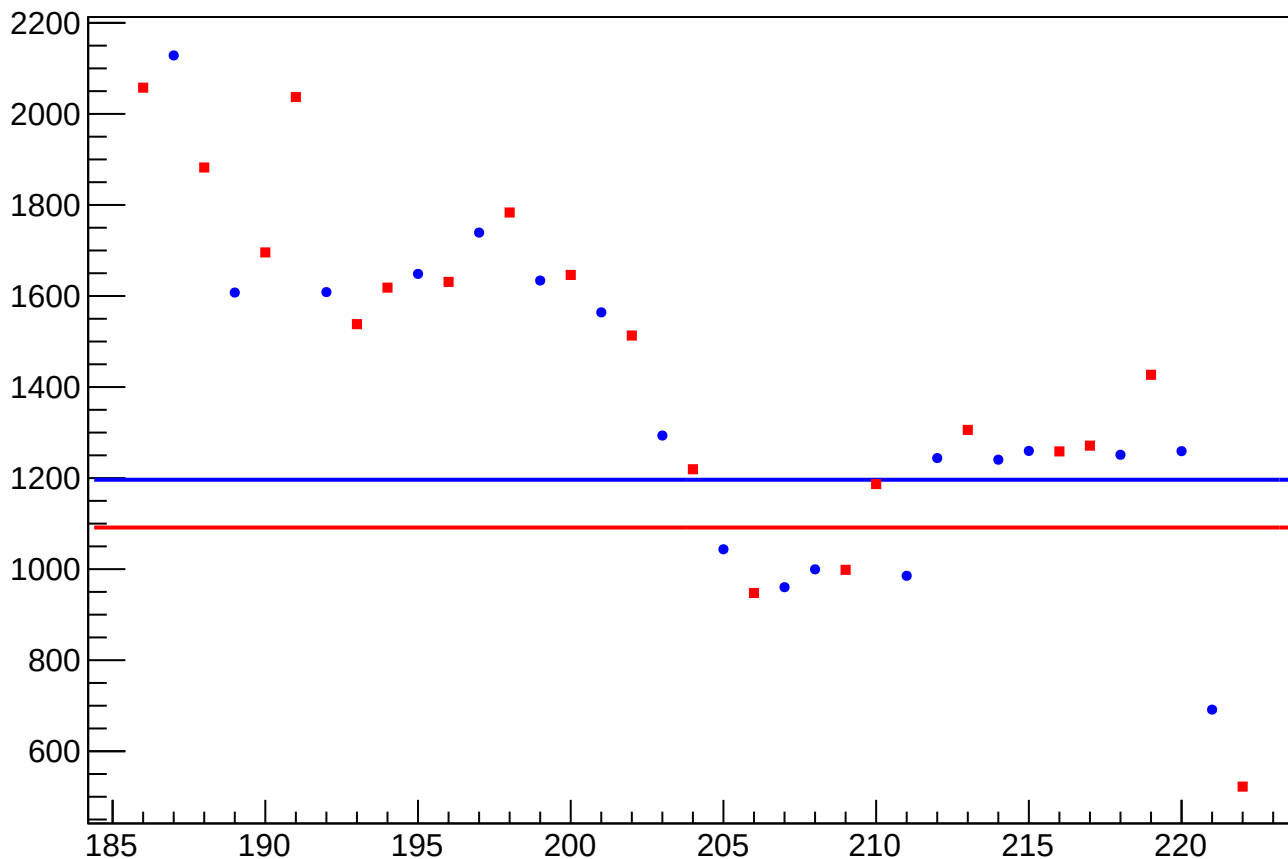
Right: 1.064+/-236.841 χ^2/NDF : 99.7/36

In: 1705.260+/-345.921 χ^2/NDF : 19.5/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1.064+/-236.841 χ^2/NDF : 99.7/36

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1196.368+/-0.245 χ^2/NDF : 1339930.8/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1091.434+/-0.230 χ^2/NDF : 3715173.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

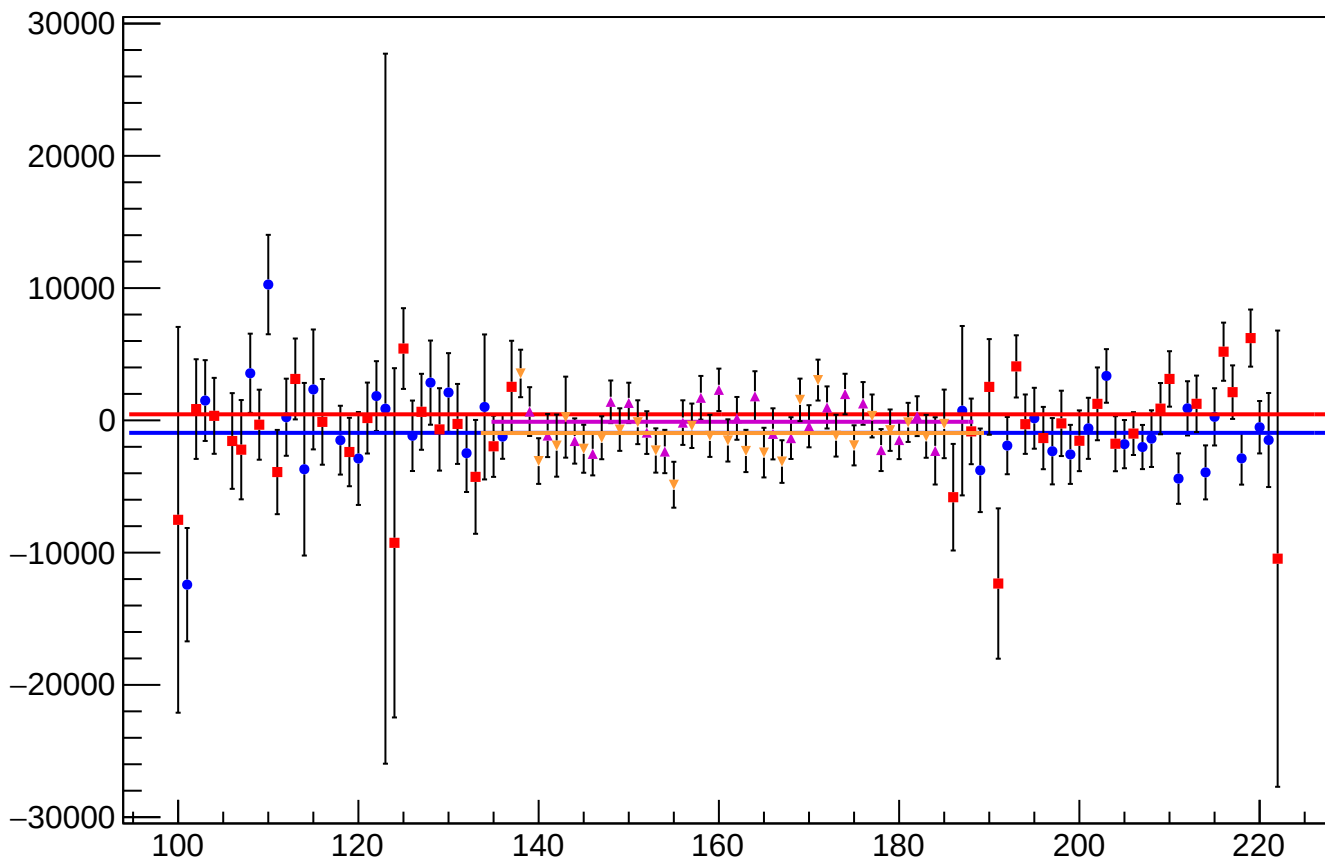
Right: 1140.624+/-0.167 χ^2/NDF : 5152870.2/36

In: 1196.368+/-0.245 χ^2/NDF : 1339930.8/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1140.624+/-0.167 χ^2/NDF : 5152870.2/36

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -944.222+/-425.937 χ^2/NDF : 39.1/34

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: 457.734+/-437.789 χ^2/NDF : 39.8/37

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

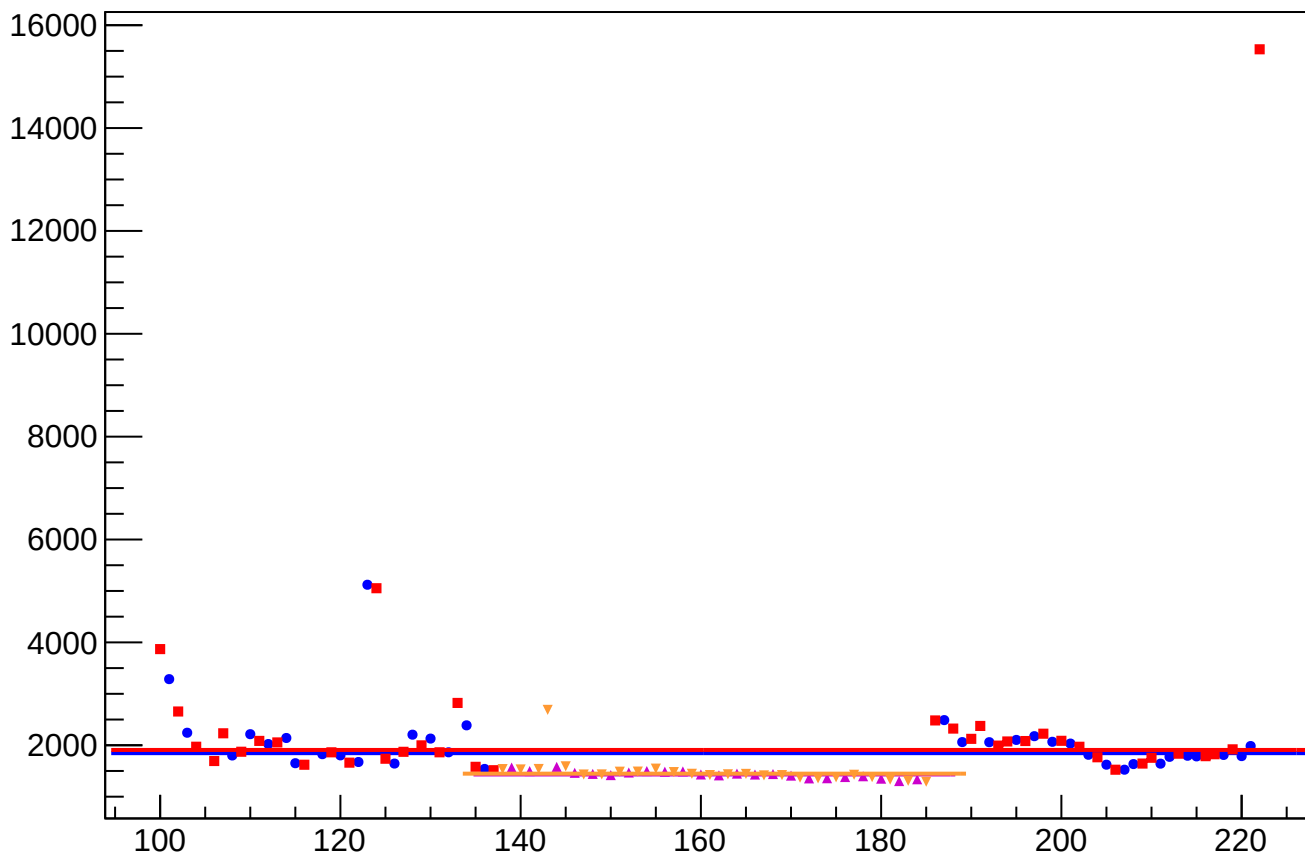
Right: -262.479+/-305.287 χ^2/NDF : 84.2/72

In: -437.429+/-267.461 χ^2/NDF : 60.9/57

Out: -426.600+/-268.281 χ^2/NDF : 74.9/62

All: -432.031+/-189.413 χ^2/NDF : 135.8/120

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1846.144+/-0.301 χ^2/NDF : 773563.9/34

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1908.543+/-0.310 χ^2/NDF : 2077131.5/37

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

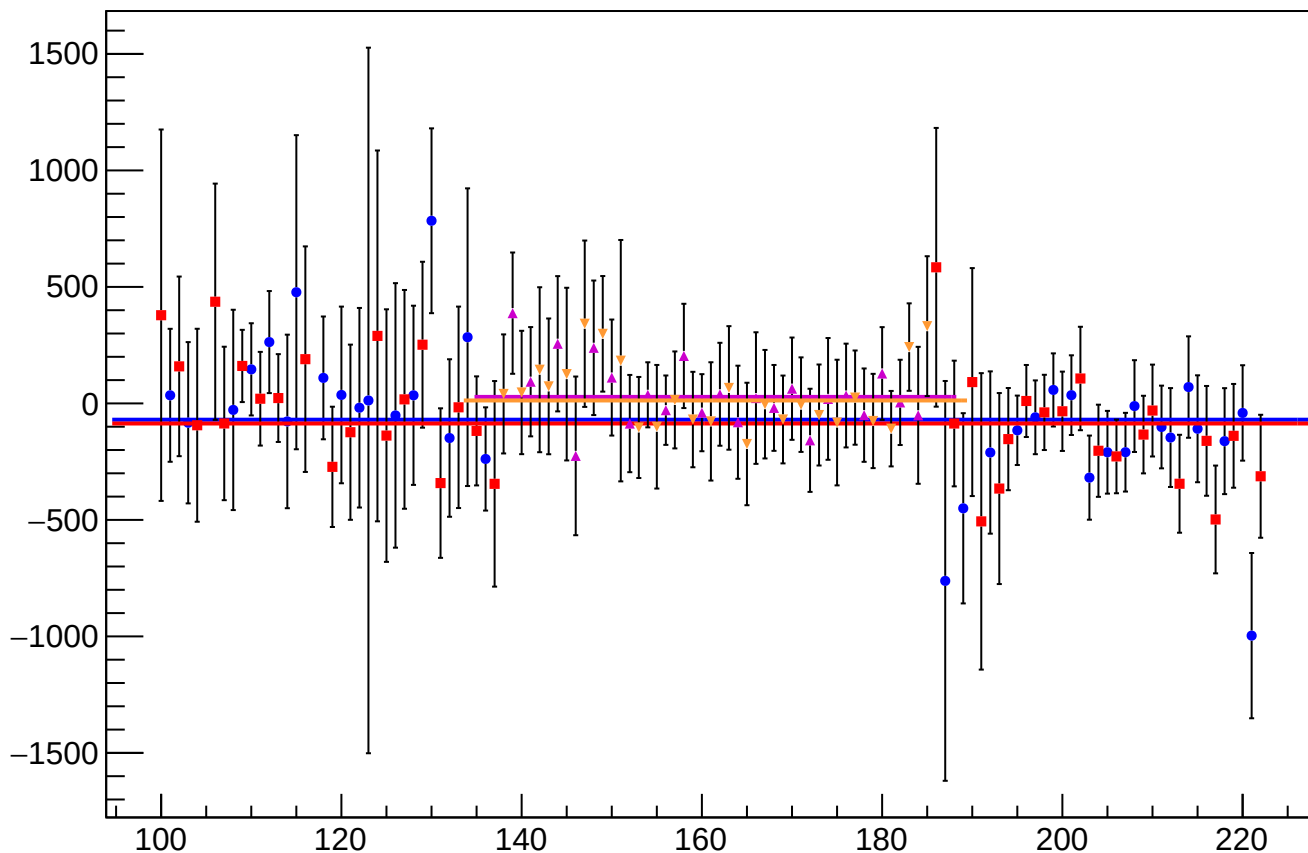
Right: 1876.488+/-0.216 χ^2/NDF : 2871568.8/72

In: 1594.969+/-0.189 χ^2/NDF : 1996953.2/57

Out: 1620.673+/-0.190 χ^2/NDF : 3881207.7/62

All: 1607.782+/-0.134 χ^2/NDF : 5887368.8/12

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -69.935 ± 40.805 $\chi^2/\text{NDF}: 24.2/34$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -86.252 ± 40.486 $\chi^2/\text{NDF}: 18.6/37$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

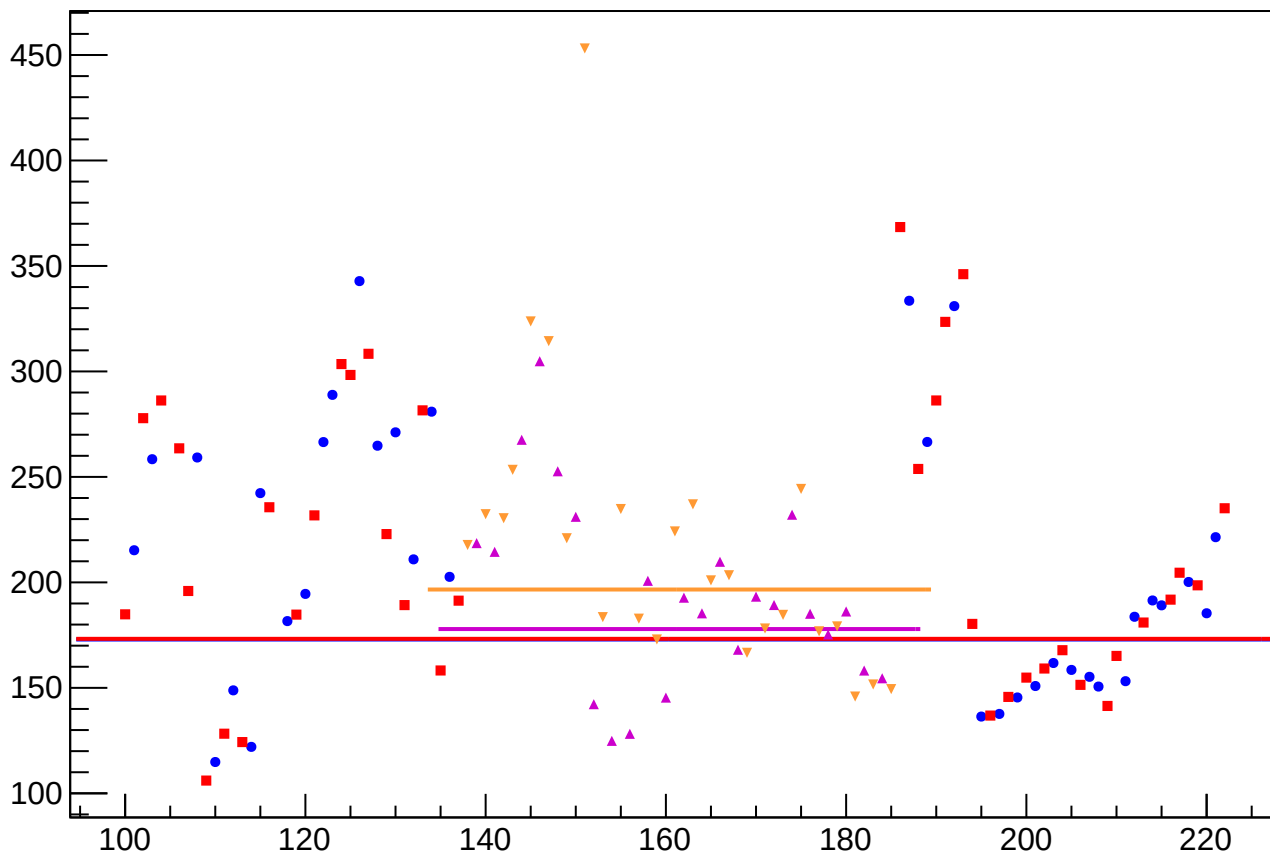
Right: -78.157 ± 28.740 $\chi^2/\text{NDF}: 42.9/72$

In: -25.263 ± 30.082 $\chi^2/\text{NDF}: 33.4/57$

Out: -44.634 ± 30.808 $\chi^2/\text{NDF}: 28.8/62$

All: -34.718 ± 21.524 $\chi^2/\text{NDF}: 62.4/120$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.924+/-0.029 χ^2/NDF : 2249182.8/34

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 173.242+/-0.029 χ^2/NDF : 3043786.6/37

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

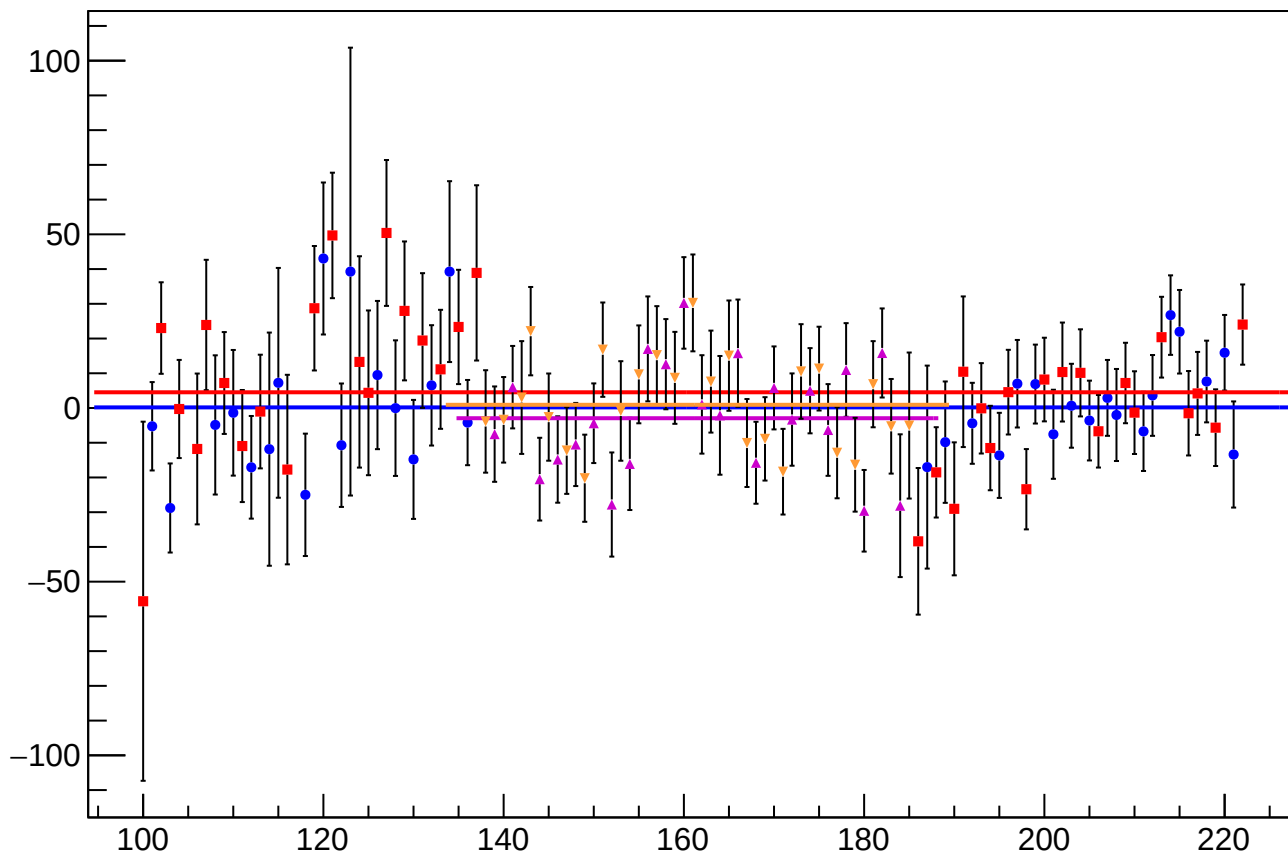
Right: 173.084+/-0.020 χ^2/NDF : 5293030.8/72

In: 175.185+/-0.021 χ^2/NDF :3906726.6/57

Out: 183.083+/-0.022 χ^2/NDF :5117978.3/62

All: 179.040+/-0.015 χ^2/NDF : 9091980.0/120

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.175 ± 2.431 $\chi^2/\text{NDF}: 32.7/34$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 4.524 ± 2.401 $\chi^2/\text{NDF}: 50.8/37$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

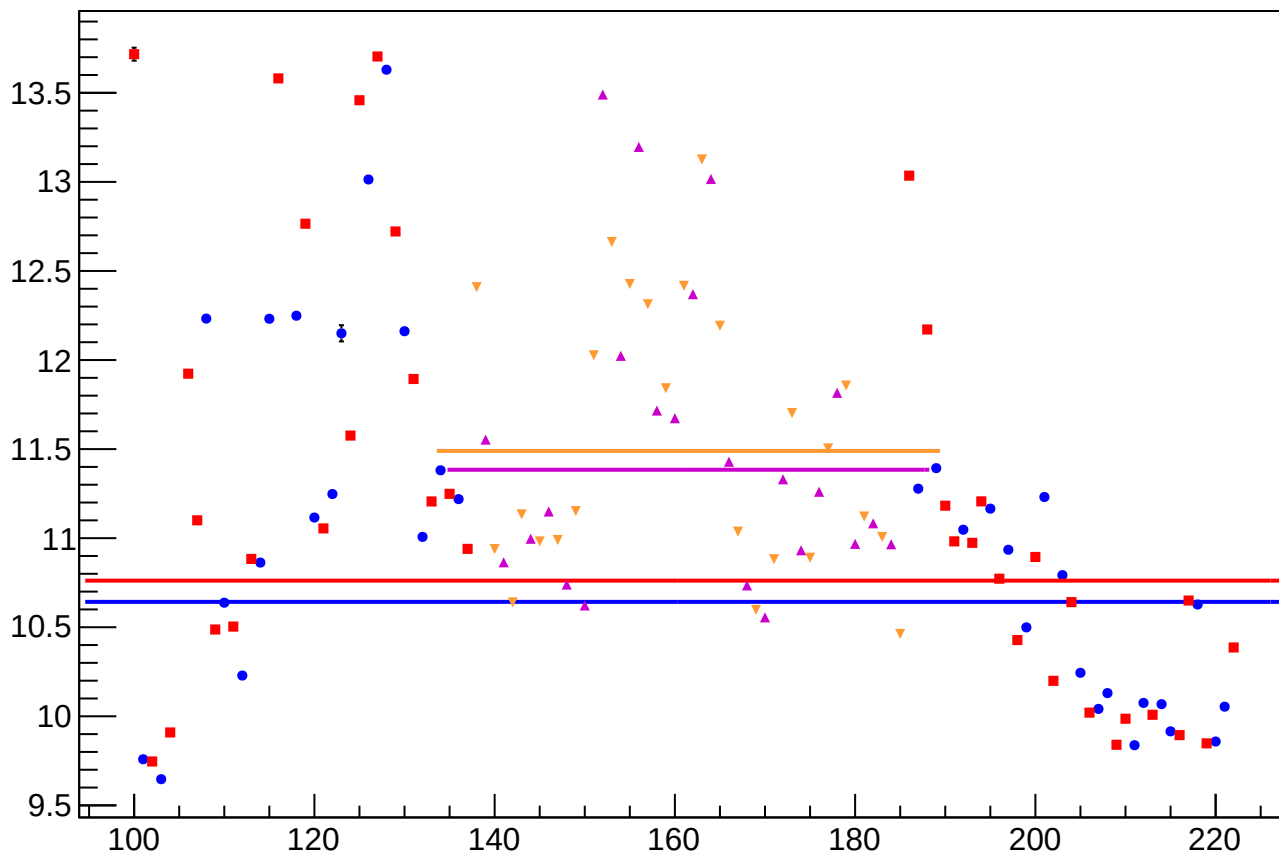
Right: 2.376 ± 1.708 $\chi^2/\text{NDF}: 85.2/72$

In: -1.195 ± 1.820 $\chi^2/\text{NDF}: 64.4/57$

Out: 2.930 ± 1.793 $\chi^2/\text{NDF}: 75.8/62$

All: 0.898 ± 1.277 $\chi^2/\text{NDF}: 142.9/120$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.642 $\pm$ 0.002 χ^2 /NDF: 224164.5/34

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.762 $\pm$ 0.002 χ^2 /NDF: 298102.0/37

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

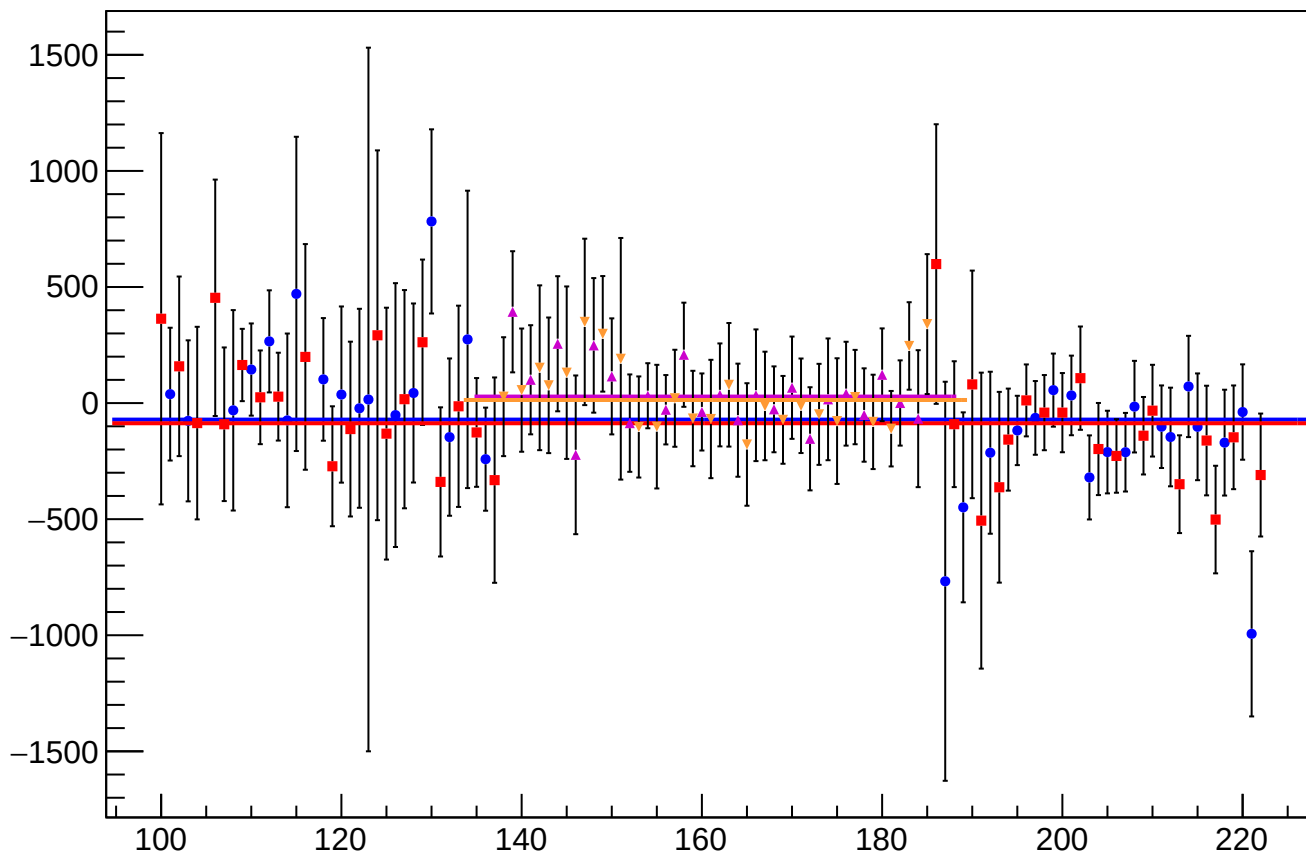
Right: 10.703 $\pm$ 0.001 χ^2 /NDF: 524700.4/72

In: 10.968 $\pm$ 0.001 χ^2 /NDF:455805.1/57

Out: 11.084 $\pm$ 0.001 χ^2 /NDF:511853.1/62

All: 11.027 $\pm$ 0.001 χ^2 /NDF: 971732.0/120

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.144 ± 40.905 χ^2/NDF : 24.1/34

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -86.922 ± 40.591 χ^2/NDF : 18.8/37

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

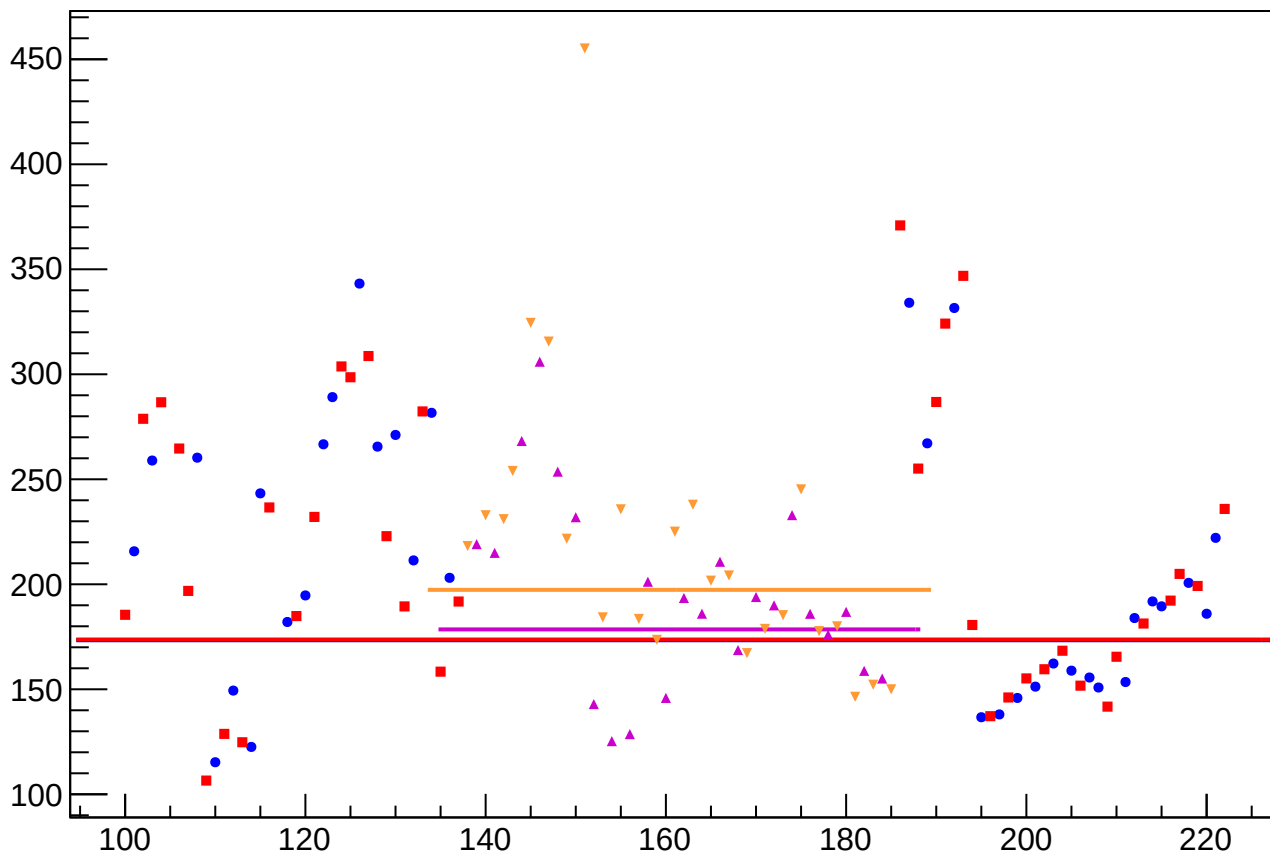
Right: -79.093 ± 28.812 χ^2/NDF : 43.0/72

In: -25.916 ± 30.171 χ^2/NDF : 33.4/57

Out: -44.780 ± 30.903 χ^2/NDF : 29.3/62

All: -35.122 ± 21.588 χ^2/NDF : 62.9/120

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.356+/-0.029 χ^2/NDF : 2244425.7/34

Left Out: 197.355+/-0.034 χ^2/NDF : 1790824.5/24

Right Out: 173.700+/-0.029 χ^2/NDF : 3040318.6/37

Left In: 178.512+/-0.032 χ^2/NDF : 1642304.1/22

Left: 187.326+/-0.023 χ^2/NDF : 3599509.2/47

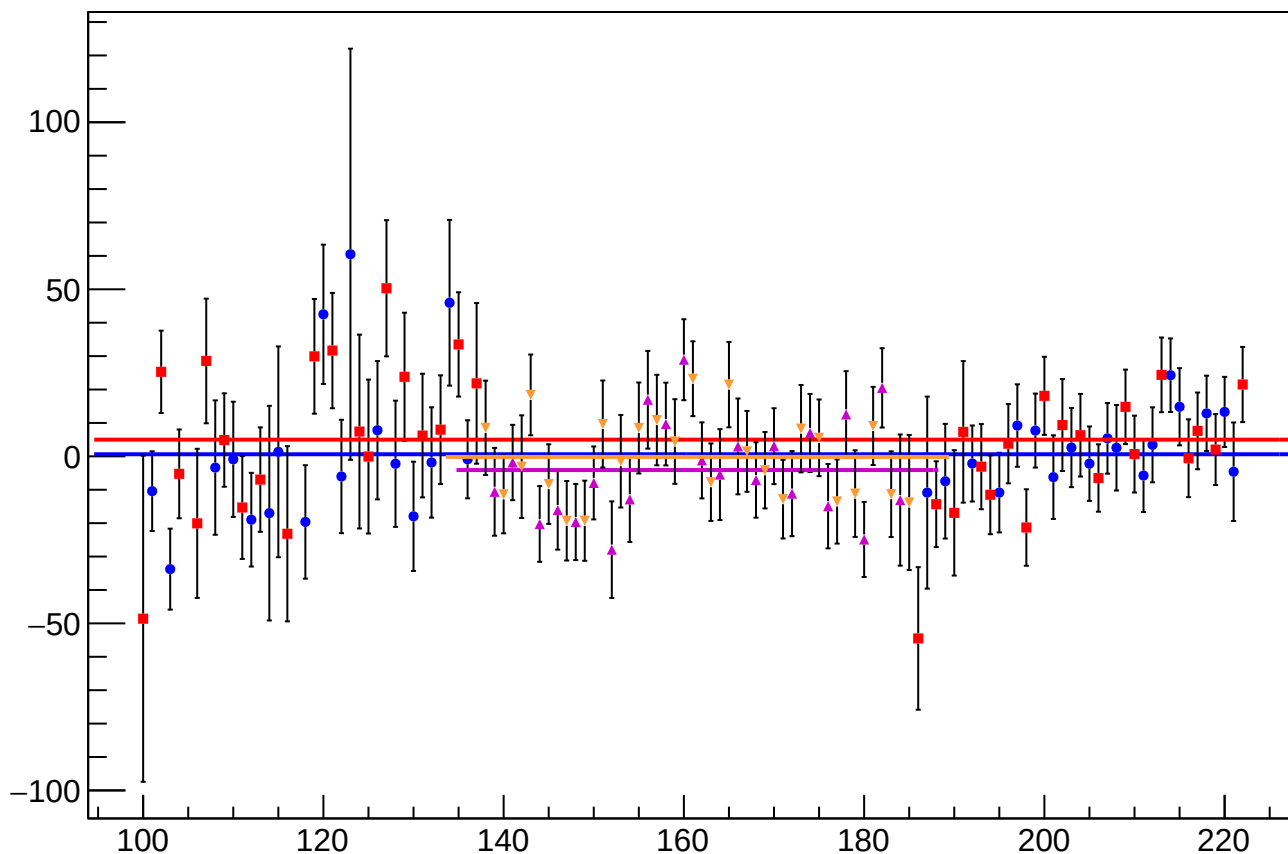
Right: 173.530+/-0.020 χ^2/NDF : 5284815.6/72

In: 175.707+/-0.021 χ^2/NDF : 3901217.3/57

Out: 183.645+/-0.022 χ^2/NDF : 5116679.6/62

All: 179.581+/-0.015 χ^2/NDF : 9085451.1/120

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.621 ± 2.344 $\chi^2/\text{NDF}: 34.8/34$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 4.992 ± 2.321 $\chi^2/\text{NDF}: 53.3/37$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

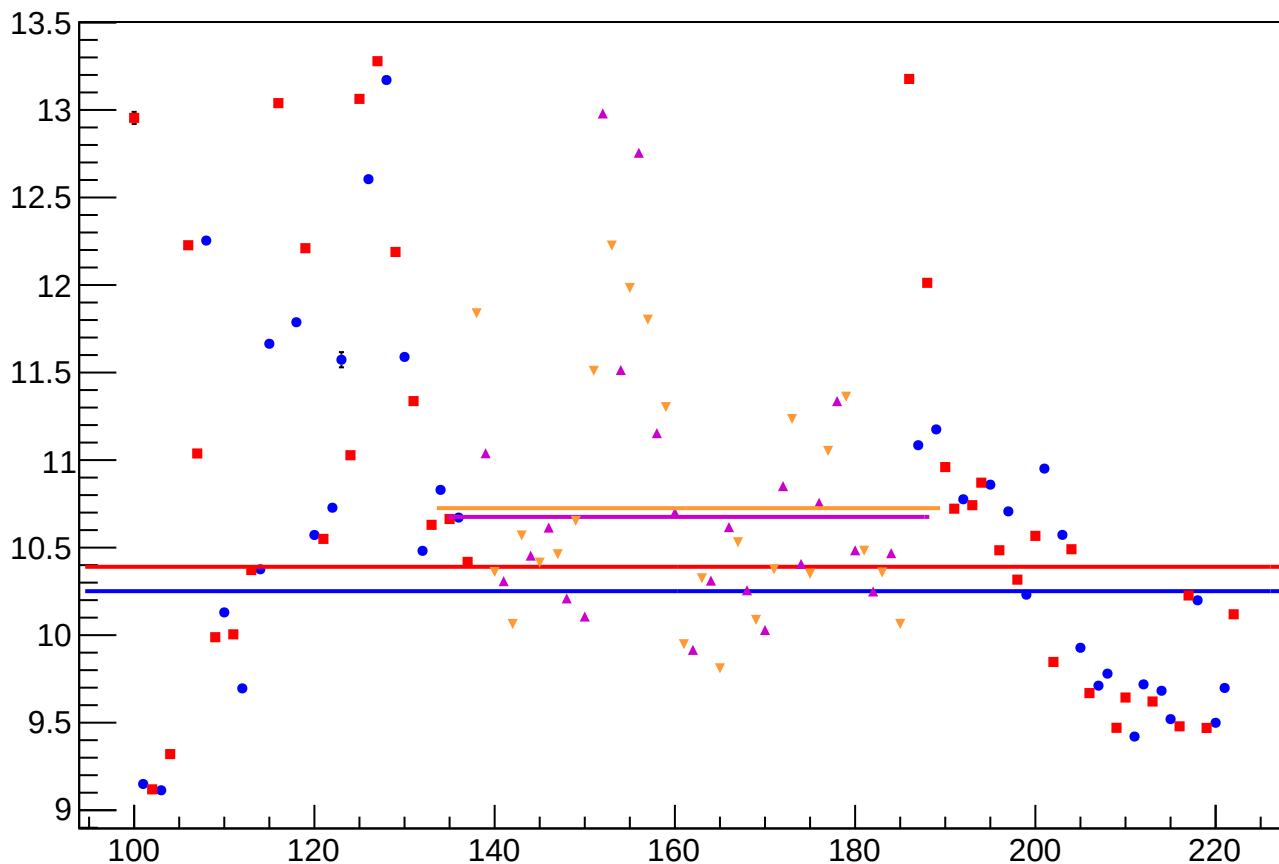
Right: 2.828 ± 1.649 $\chi^2/\text{NDF}: 89.9/72$

In: -1.519 ± 1.734 $\chi^2/\text{NDF}: 68.2/57$

Out: 2.623 ± 1.707 $\chi^2/\text{NDF}: 80.0/62$

All: 0.584 ± 1.217 $\chi^2/\text{NDF}: 151.0/120$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.251 $\pm$ 0.002 χ^2 /NDF: 251830.9/34

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.390 $\pm$ 0.002 χ^2 /NDF: 341271.1/37

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

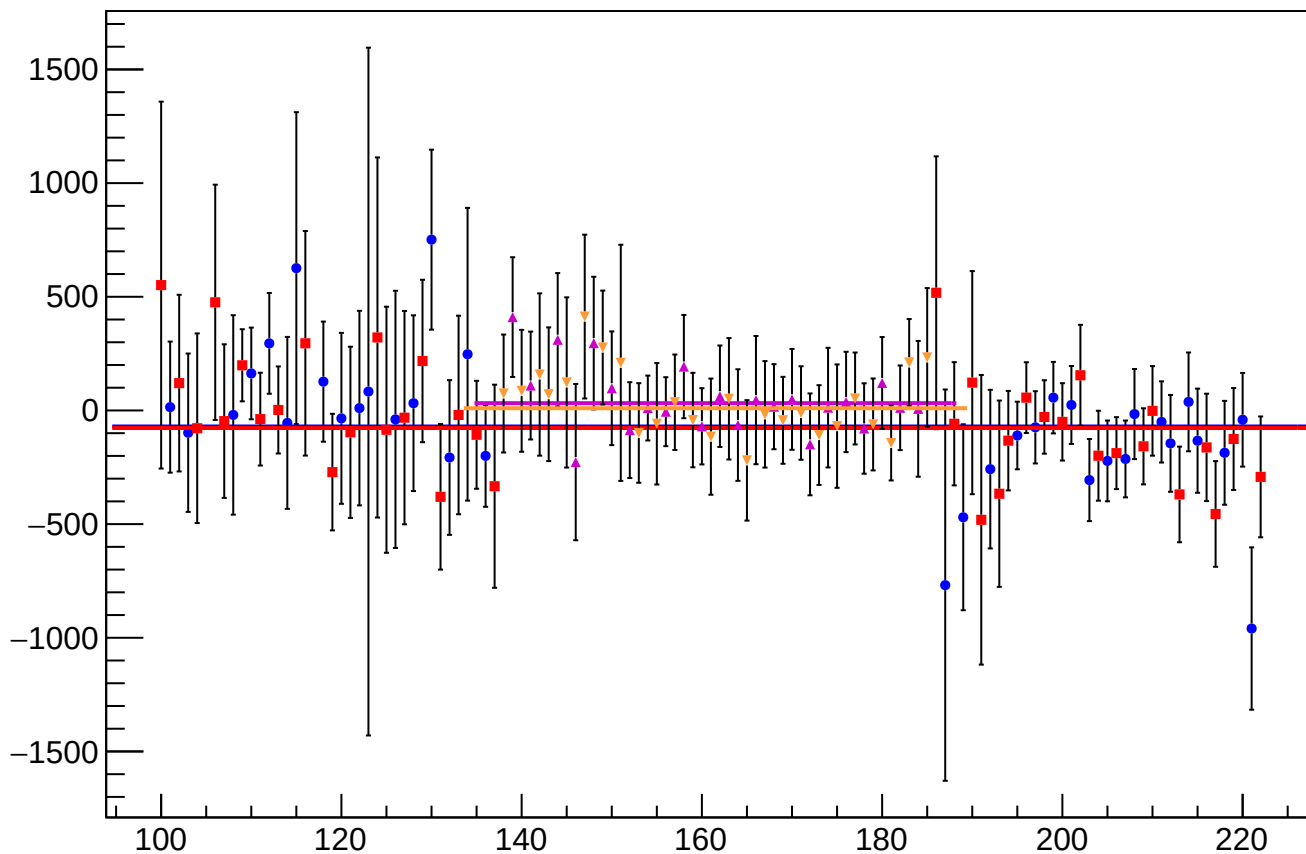
Right: 10.322 $\pm$ 0.001 χ^2 /NDF: 596667.4/72

In: 10.443 $\pm$ 0.001 χ^2 /NDF:427430.3/57

Out: 10.544 $\pm$ 0.001 χ^2 /NDF:492560.2/62

All: 10.494 $\pm$ 0.001 χ^2 /NDF: 923434.7/120

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -70.597 ± 40.967 $\chi^2/\text{NDF}: 24.0/34$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -77.147 ± 40.710 $\chi^2/\text{NDF}: 19.3/37$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

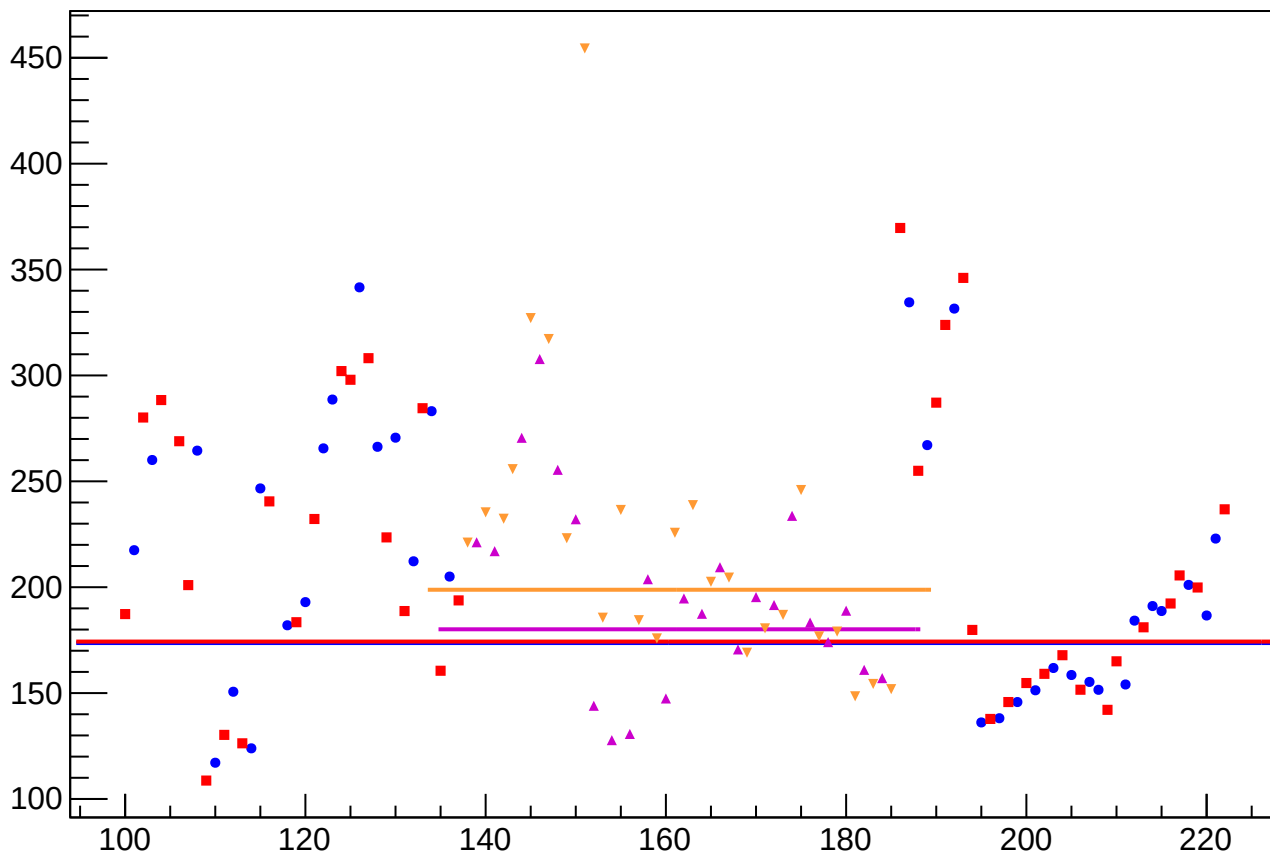
Right: -73.893 ± 28.877 $\chi^2/\text{NDF}: 43.3/72$

In: -24.149 ± 30.306 $\chi^2/\text{NDF}: 34.0/57$

Out: -40.752 ± 31.041 $\chi^2/\text{NDF}: 28.8/62$

All: -32.251 ± 21.685 $\chi^2/\text{NDF}: 62.9/120$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.631 $\pm$ 0.029 χ^2 /NDF: 2241124.0/34

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 174.331 $\pm$ 0.029 χ^2 /NDF: 2998262.6/37

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

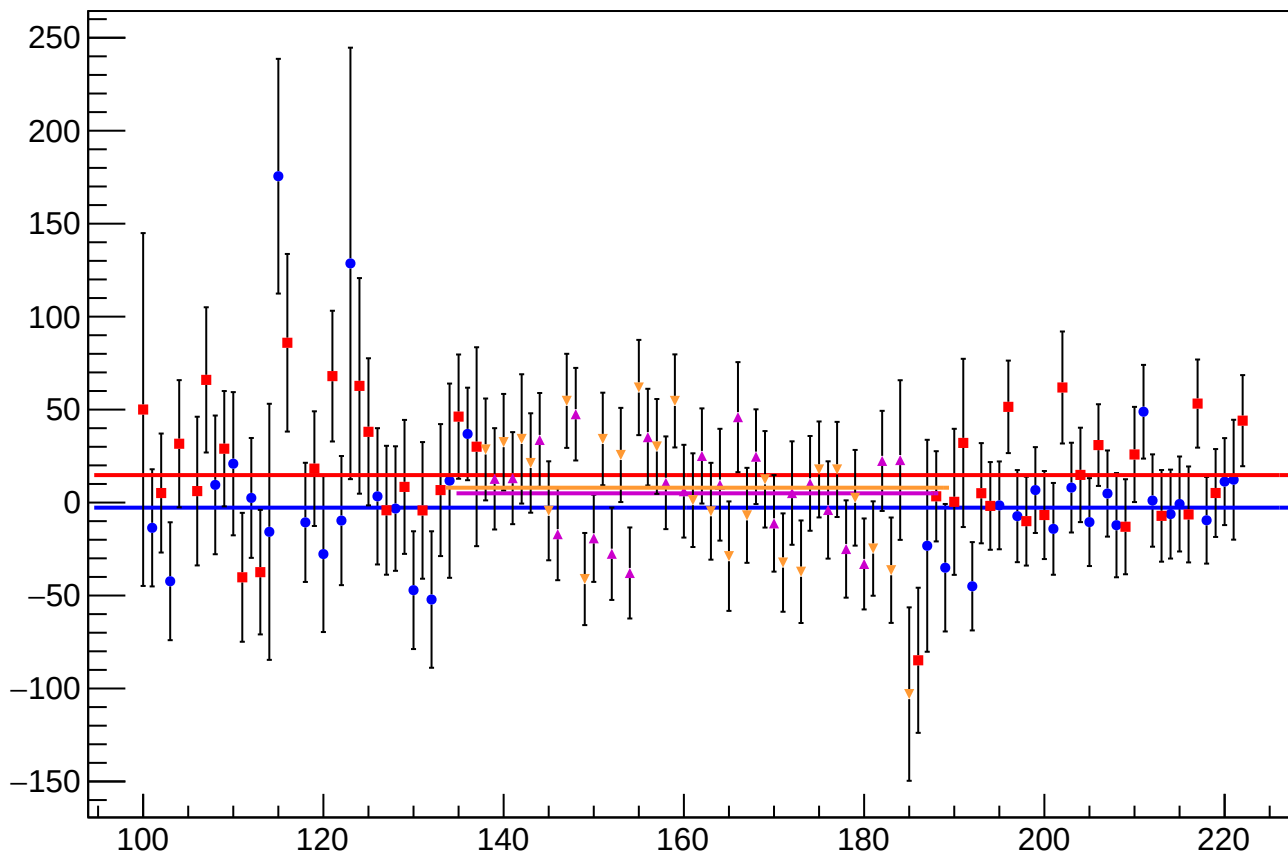
Right: 173.983 $\pm$ 0.020 χ^2 /NDF: 5239680.7/72

In: 176.570 $\pm$ 0.021 χ^2 /NDF:3857708.1/57

Out: 184.574 $\pm$ 0.022 χ^2 /NDF:5063830.6/62

All: 180.476 $\pm$ 0.015 χ^2 /NDF: 8989606.8/120

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.738 ± 4.985 χ^2/NDF : 28.4/34

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 14.771 ± 4.904 χ^2/NDF : 36.3/37

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

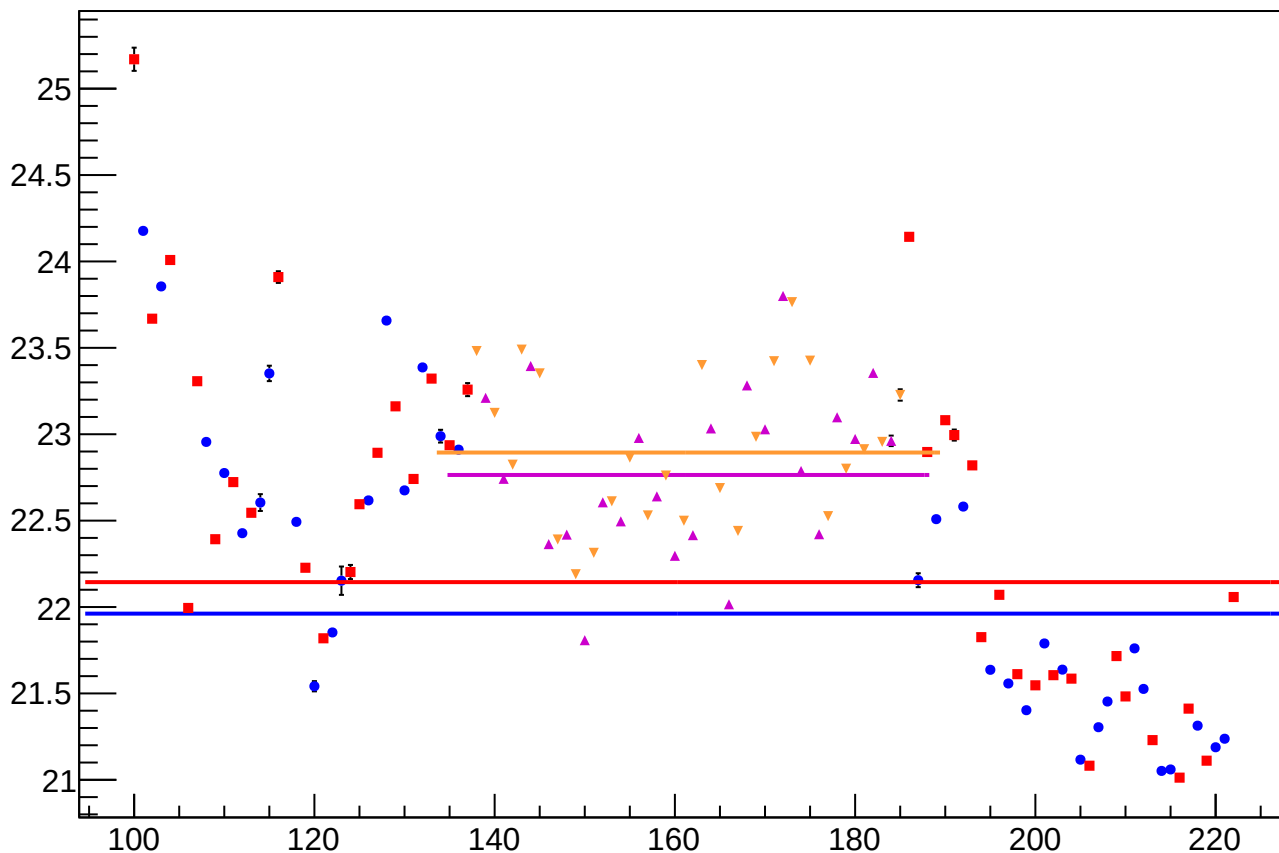
Right: 6.160 ± 3.496 χ^2/NDF : 71.0/72

In: 0.779 ± 3.677 χ^2/NDF : 49.9/57

Out: 11.661 ± 3.608 χ^2/NDF : 74.6/62

All: 6.322 ± 2.575 χ^2/NDF : 129.0/120

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.962+/-0.004 χ^2/NDF : 55282.8/34

Left Out: 22.894+/-0.004 χ^2/NDF :13070.5/24

Right Out: 22.144+/-0.003 χ^2/NDF : 59169.5/37

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

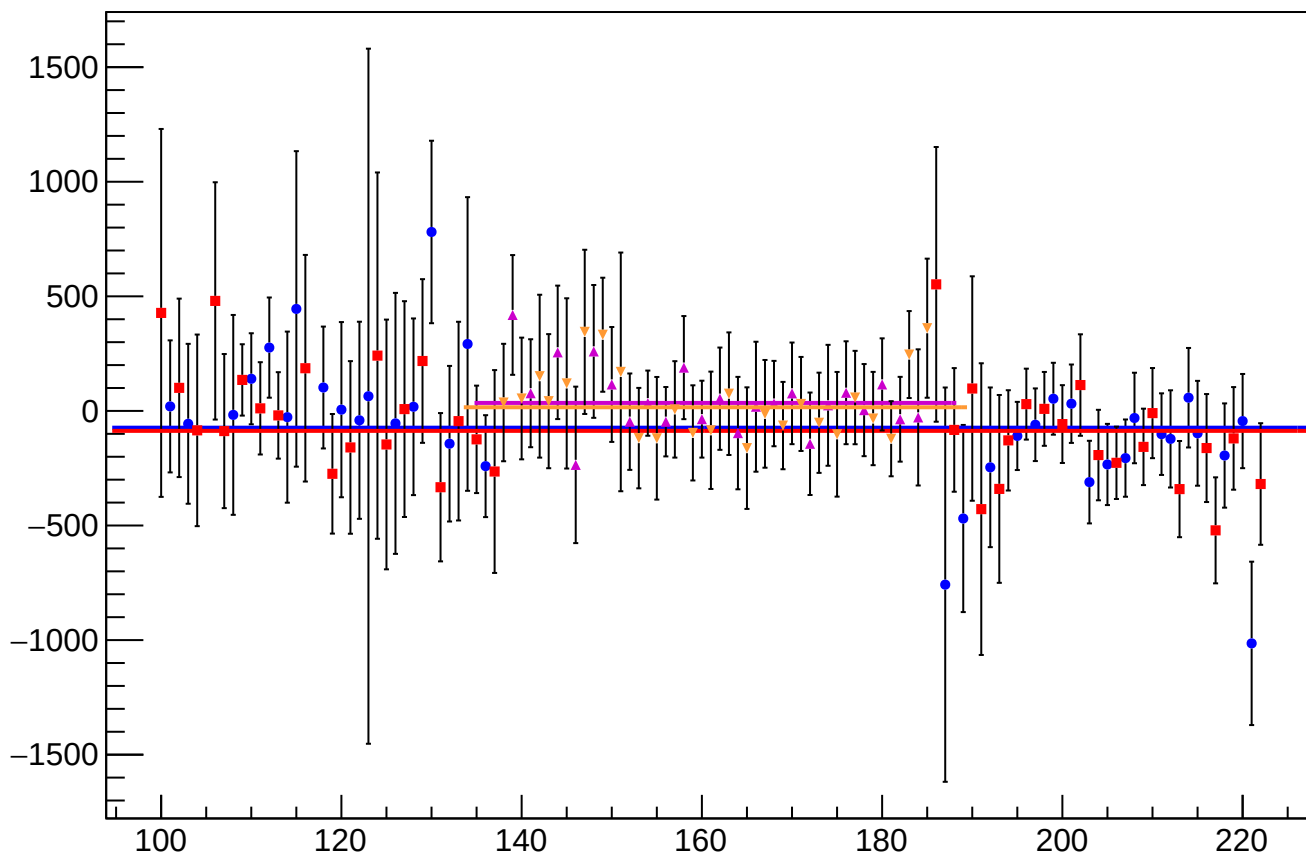
Right: 22.054+/-0.002 χ^2/NDF : 115811.8/72

In: 22.328+/-0.003 χ^2/NDF :93582.7/57

Out: 22.488+/-0.003 χ^2/NDF :93698.3/62

All: 22.409+/-0.002 χ^2/NDF : 189219.5/120

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -73.146 ± 40.852 $\chi^2/\text{NDF}: 24.4/34$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -87.037 ± 40.546 $\chi^2/\text{NDF}: 17.9/37$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

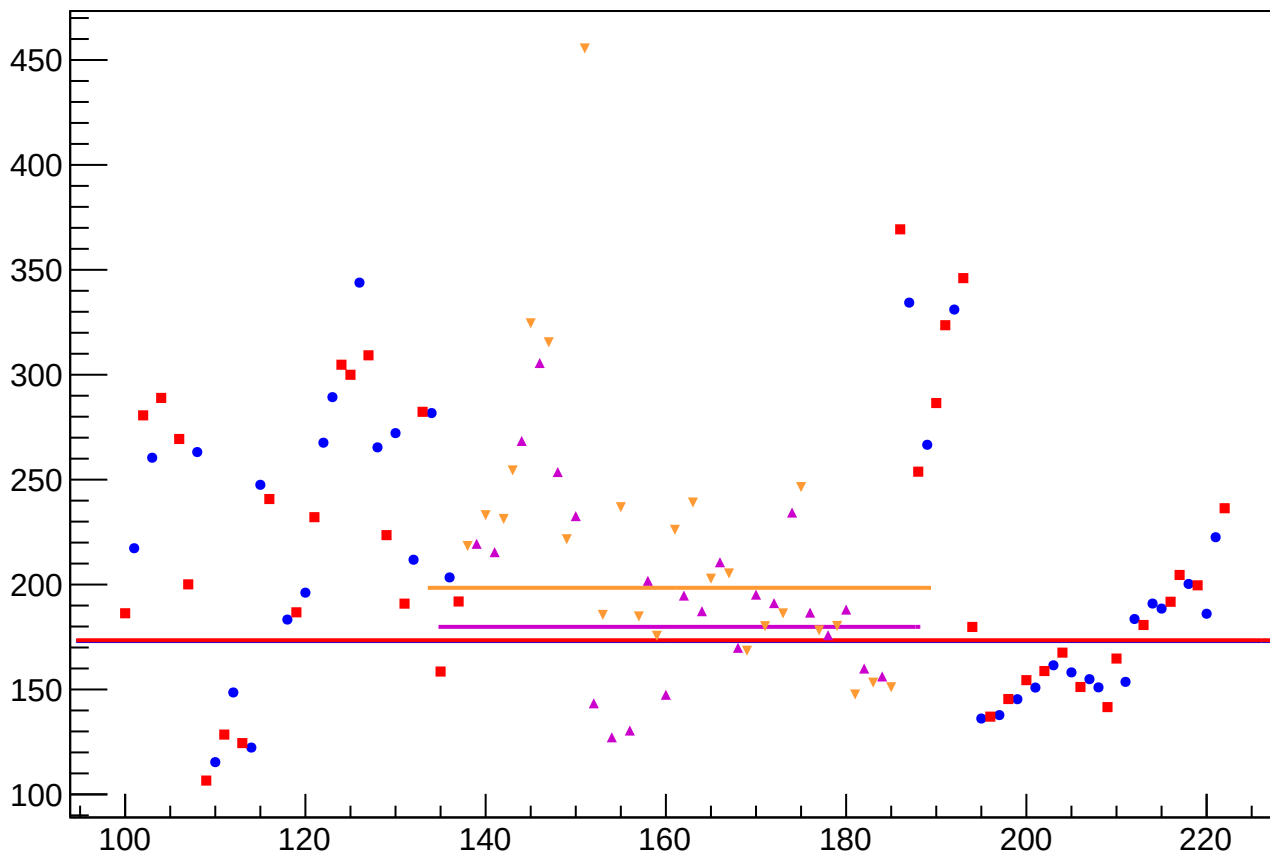
Right: -80.144 ± 28.778 $\chi^2/\text{NDF}: 42.3/72$

In: -24.288 ± 30.238 $\chi^2/\text{NDF}: 34.1/57$

Out: -44.065 ± 30.947 $\chi^2/\text{NDF}: 29.0/62$

All: -33.947 ± 21.628 $\chi^2/\text{NDF}: 63.3/120$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.075+/-0.029 χ^2/NDF : 2272682.4/34

Left Out: 198.450+/-0.034 χ^2/NDF : 1761433.9/24

Right Out: 173.454+/-0.029 χ^2/NDF : 3070950.2/37

Left In: 179.839+/-0.032 χ^2/NDF : 1588834.3/22

Left: 188.558+/-0.023 χ^2/NDF : 3510745.5/47

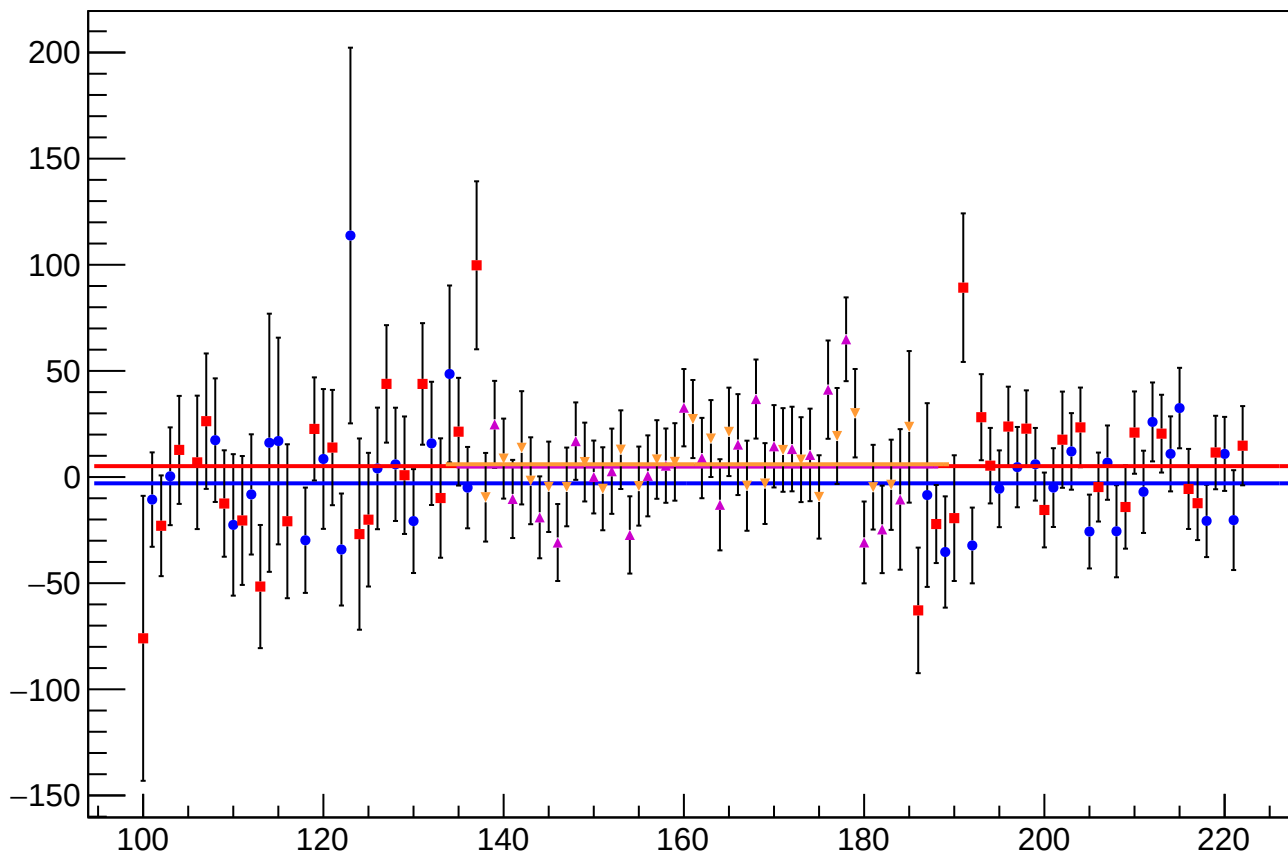
Right: 173.266+/-0.020 χ^2/NDF : 5343719.3/72

In: 176.133+/-0.021 χ^2/NDF : 3886303.2/57

Out: 183.889+/-0.022 χ^2/NDF : 5149666.1/62

All: 179.921+/-0.015 χ^2/NDF : 9100221.9/120

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.963+/-3.781 χ^2/NDF : 25.7/34

Left Out: 6.020+/-4.017 χ^2/NDF : 8.1/24

Right Out: 5.135+/-3.729 χ^2/NDF : 45.2/37

Left In: 4.943+/-4.108 χ^2/NDF : 34.8/22

Left: 5.494+/-2.872 χ^2/NDF : 43.0/47

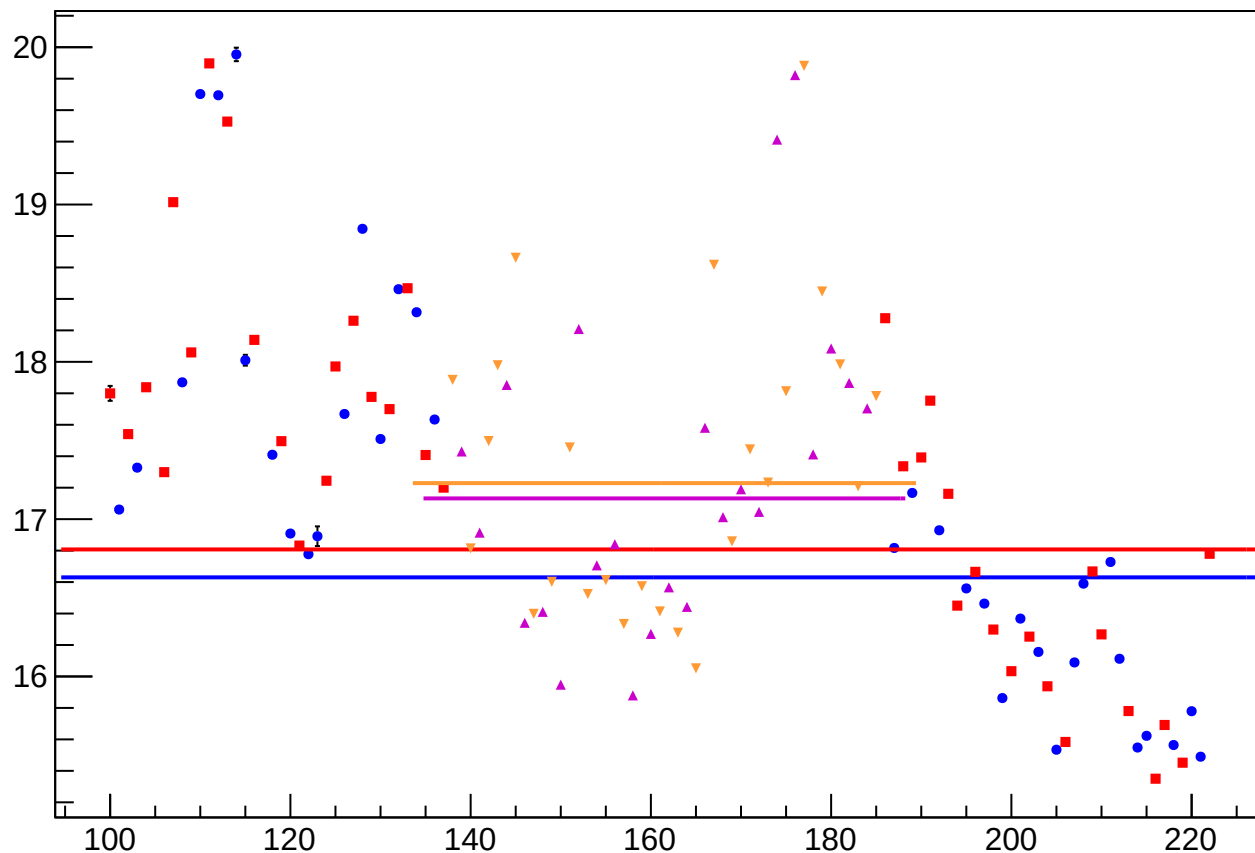
Right: 1.142+/-2.655 χ^2/NDF : 73.2/72

In: 0.663+/-2.782 χ^2/NDF : 62.5/57

Out: 5.544+/-2.733 χ^2/NDF : 53.3/62

All: 3.147+/-1.949 χ^2/NDF : 117.4/120

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.630 $\pm$ 0.003 χ^2 /NDF: 141442.7/34

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 16.808 $\pm$ 0.003 χ^2 /NDF: 157464.0/37

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

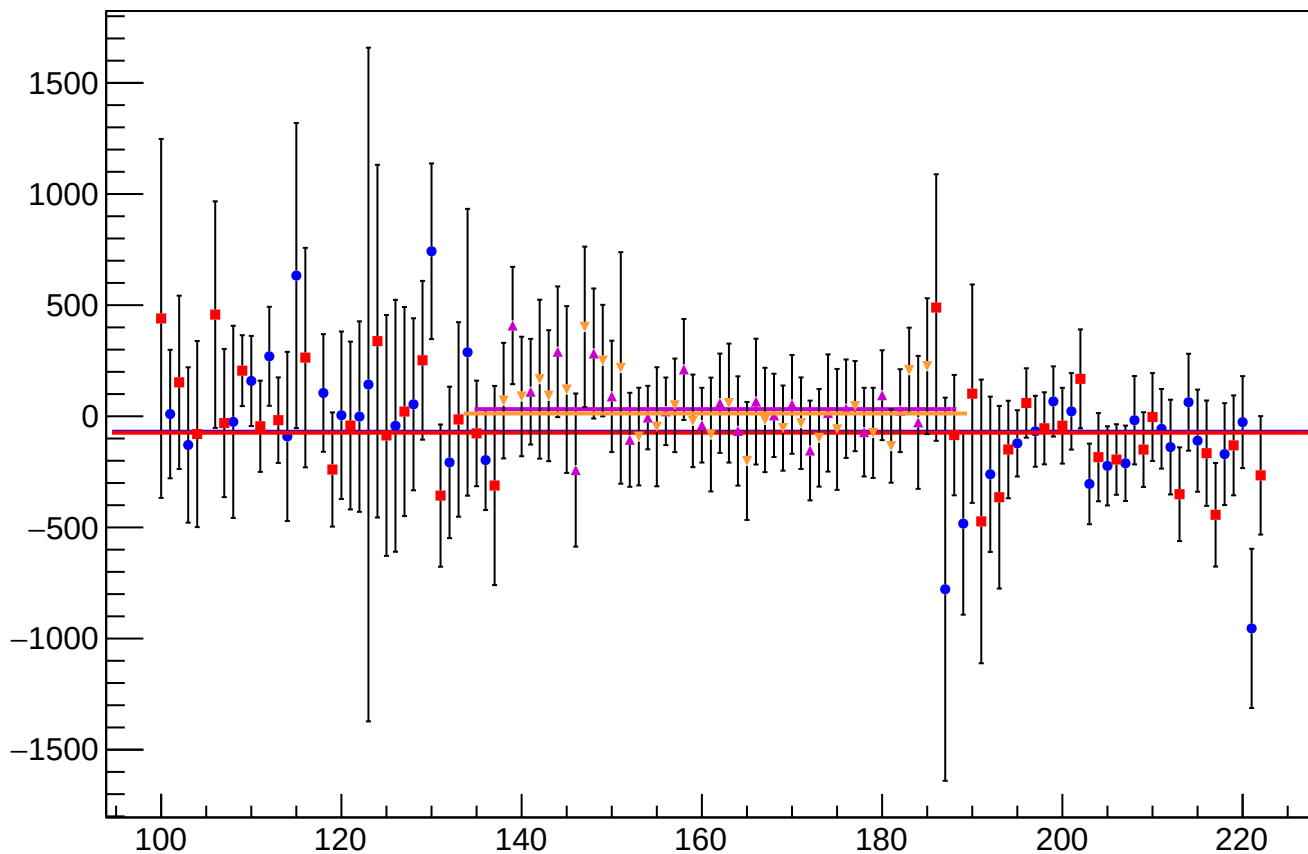
Right: 16.720 $\pm$ 0.002 χ^2 /NDF: 301142.3/72

In: 16.860 $\pm$ 0.002 χ^2 /NDF:261601.5/57

Out: 17.003 $\pm$ 0.002 χ^2 /NDF:267920.6/62

All: 16.933 $\pm$ 0.001 χ^2 /NDF: 532192.9/120

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -69.483 ± 41.091 χ^2/NDF : 23.6/34

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -73.823 ± 40.819 χ^2/NDF : 18.3/37

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

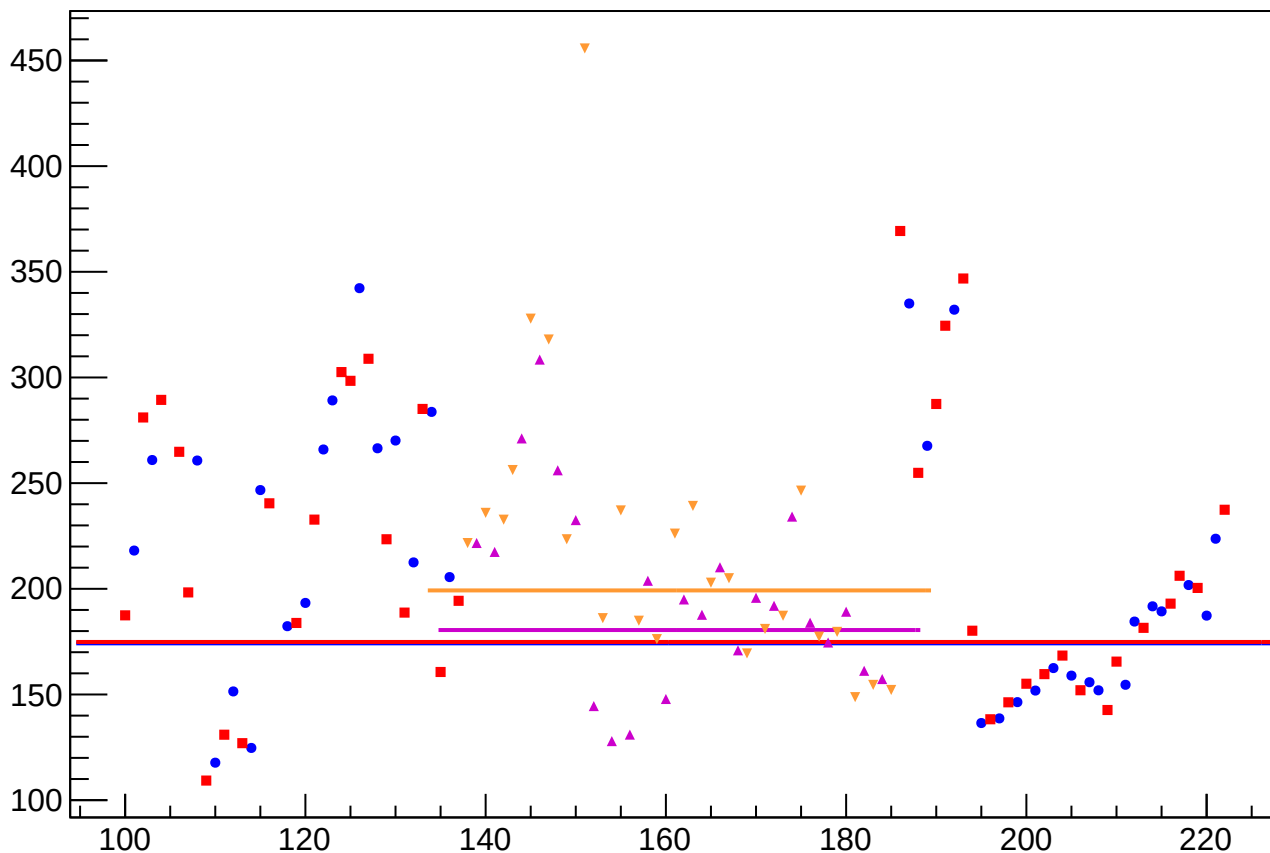
Right: -71.668 ± 28.959 χ^2/NDF : 41.9/72

In: -23.414 ± 30.384 χ^2/NDF : 33.3/57

Out: -37.682 ± 31.119 χ^2/NDF : 27.0/62

All: -30.377 ± 21.740 χ^2/NDF : 60.4/120

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.200 $\pm$ 0.029 χ^2 /NDF: 2222863.1/34

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 174.854 $\pm$ 0.029 χ^2 /NDF: 2973345.9/37

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

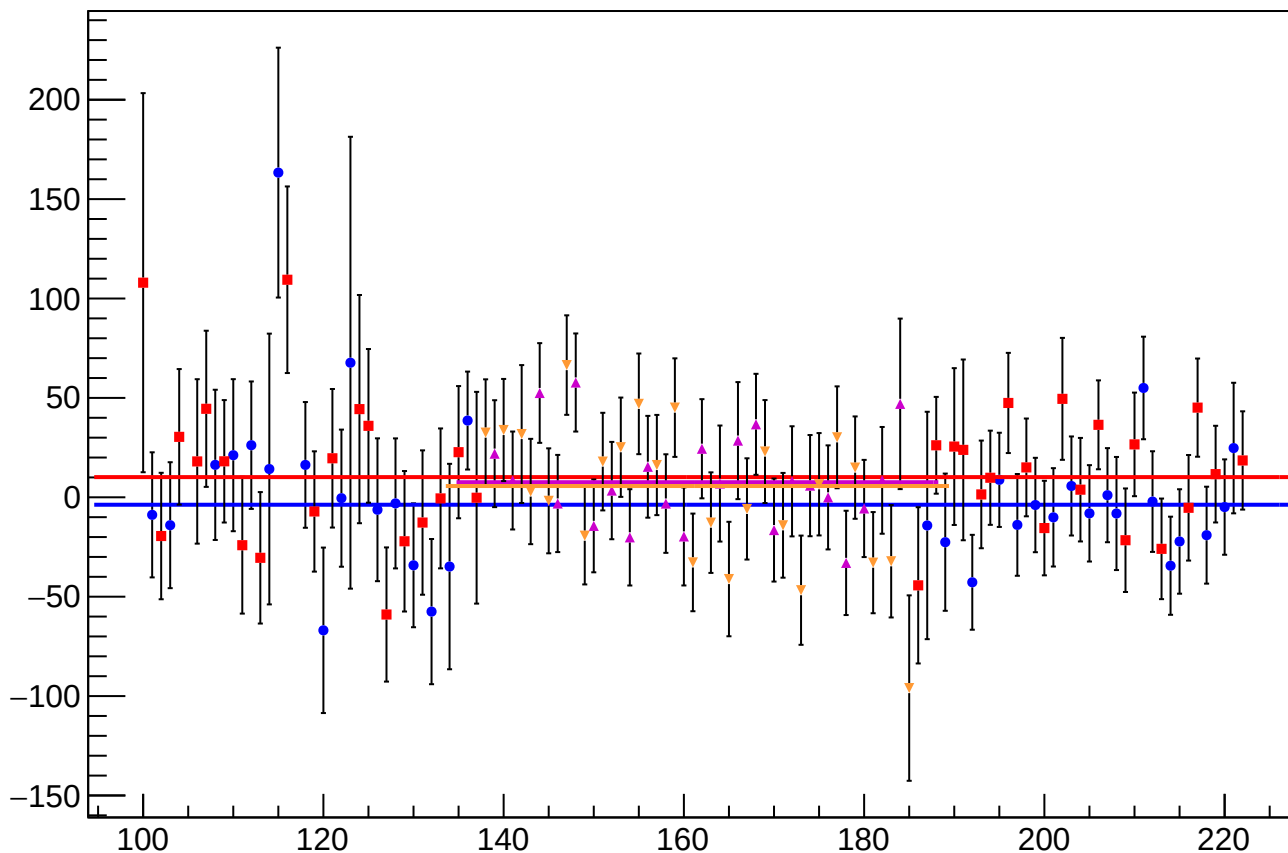
Right: 174.529 $\pm$ 0.020 χ^2 /NDF: 5196464.1/72

In: 177.053 $\pm$ 0.021 χ^2 /NDF:3837912.1/57

Out: 185.068 $\pm$ 0.022 χ^2 /NDF:5036415.1/62

All: 180.964 $\pm$ 0.015 χ^2 /NDF: 8942247.7/120

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.743 ± 5.045 χ^2/NDF : 30.5/34

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 10.156 ± 4.946 χ^2/NDF : 32.6/37

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

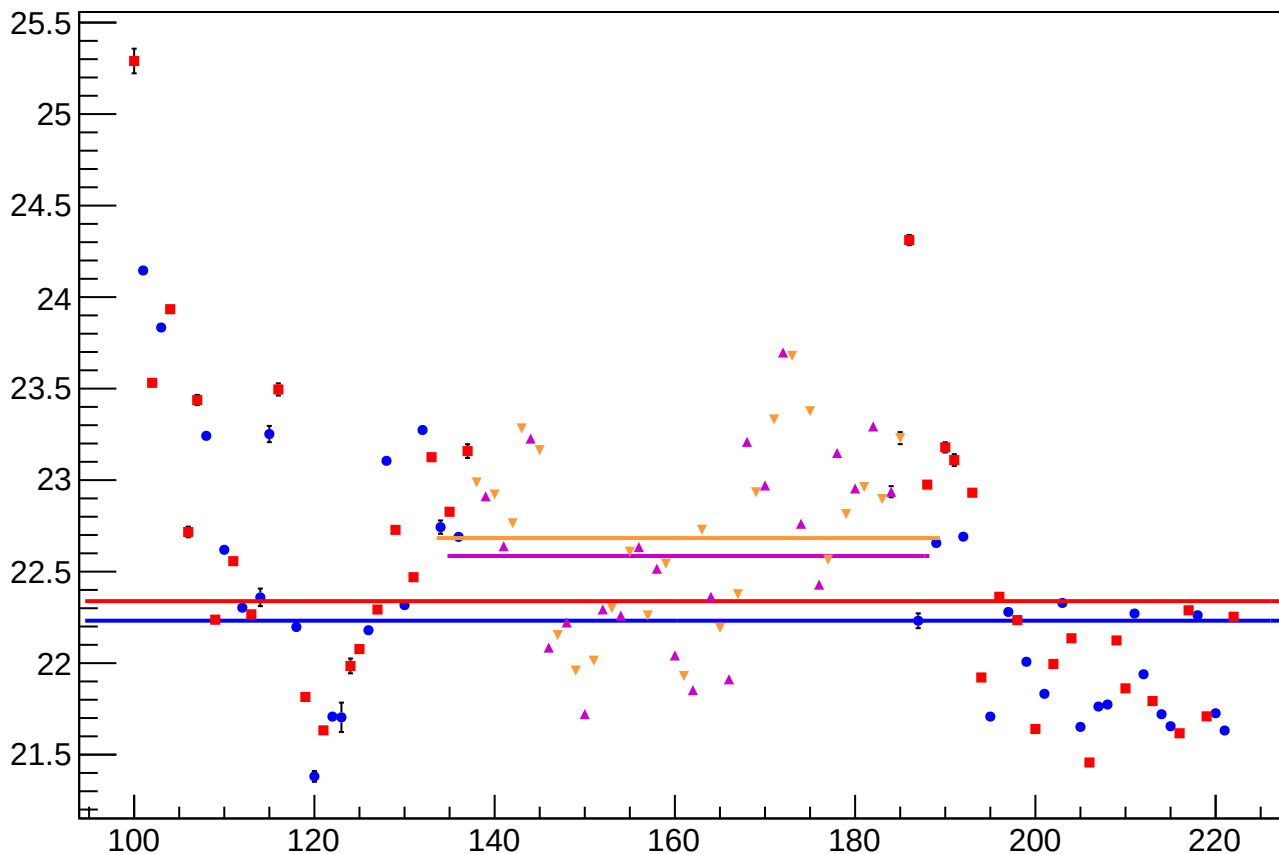
Right: 3.345 ± 3.532 χ^2/NDF : 67.0/72

In: 1.539 ± 3.687 χ^2/NDF : 51.2/57

Out: 8.060 ± 3.609 χ^2/NDF : 69.4/62

All: 4.869 ± 2.579 χ^2/NDF : 122.1/120

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.232 $\pm$ 0.004 χ^2 /NDF: 28851.5/34

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.339 $\pm$ 0.003 χ^2 /NDF: 35226.0/37

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF:18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

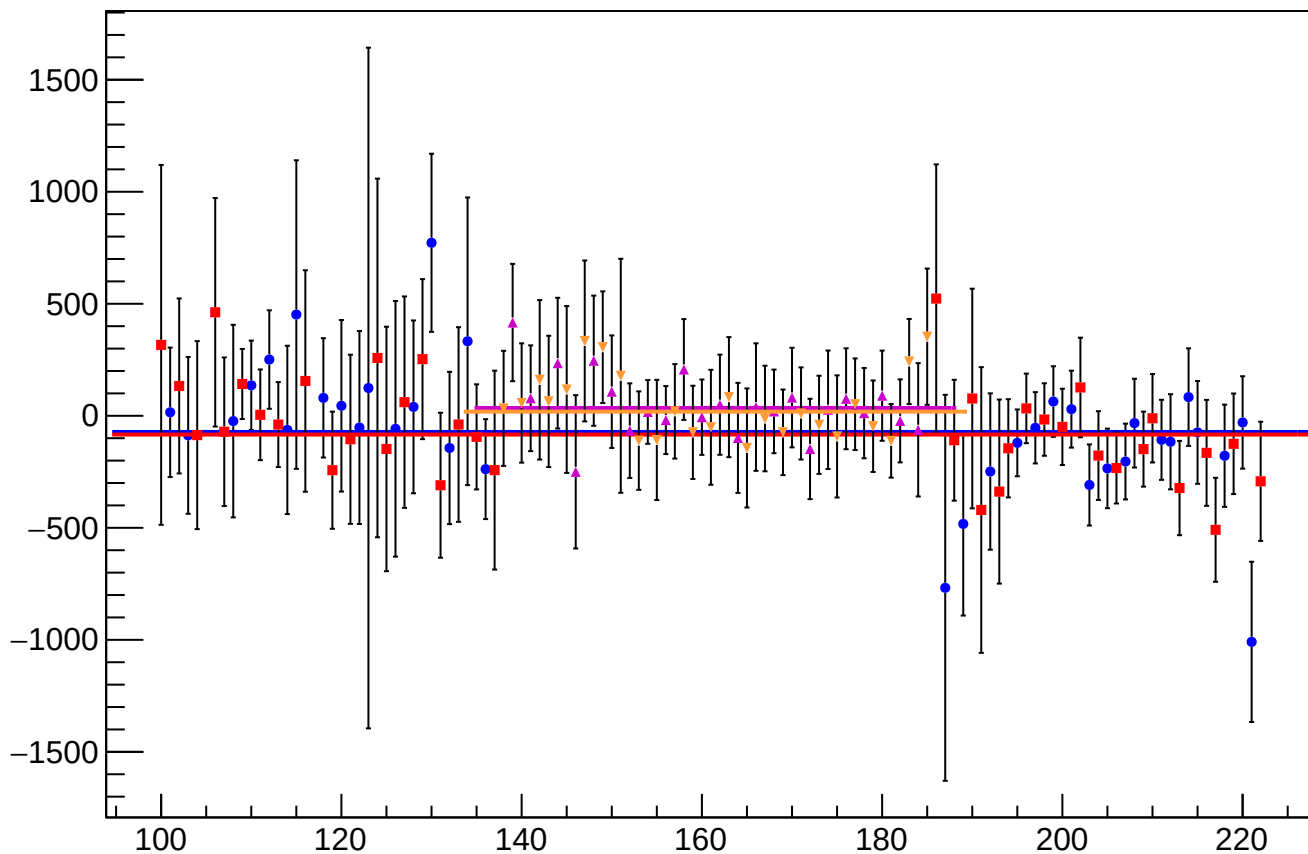
Right: 22.286 $\pm$ 0.002 χ^2 /NDF: 64534.2/72

In: 22.397 $\pm$ 0.003 χ^2 /NDF:51510.4/57

Out: 22.500 $\pm$ 0.003 χ^2 /NDF:56088.8/62

All: 22.449 $\pm$ 0.002 χ^2 /NDF: 108401.5/120

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -72.099 ± 40.977 $\chi^2/\text{NDF}: 24.0/34$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -83.760 ± 40.656 $\chi^2/\text{NDF}: 16.8/37$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

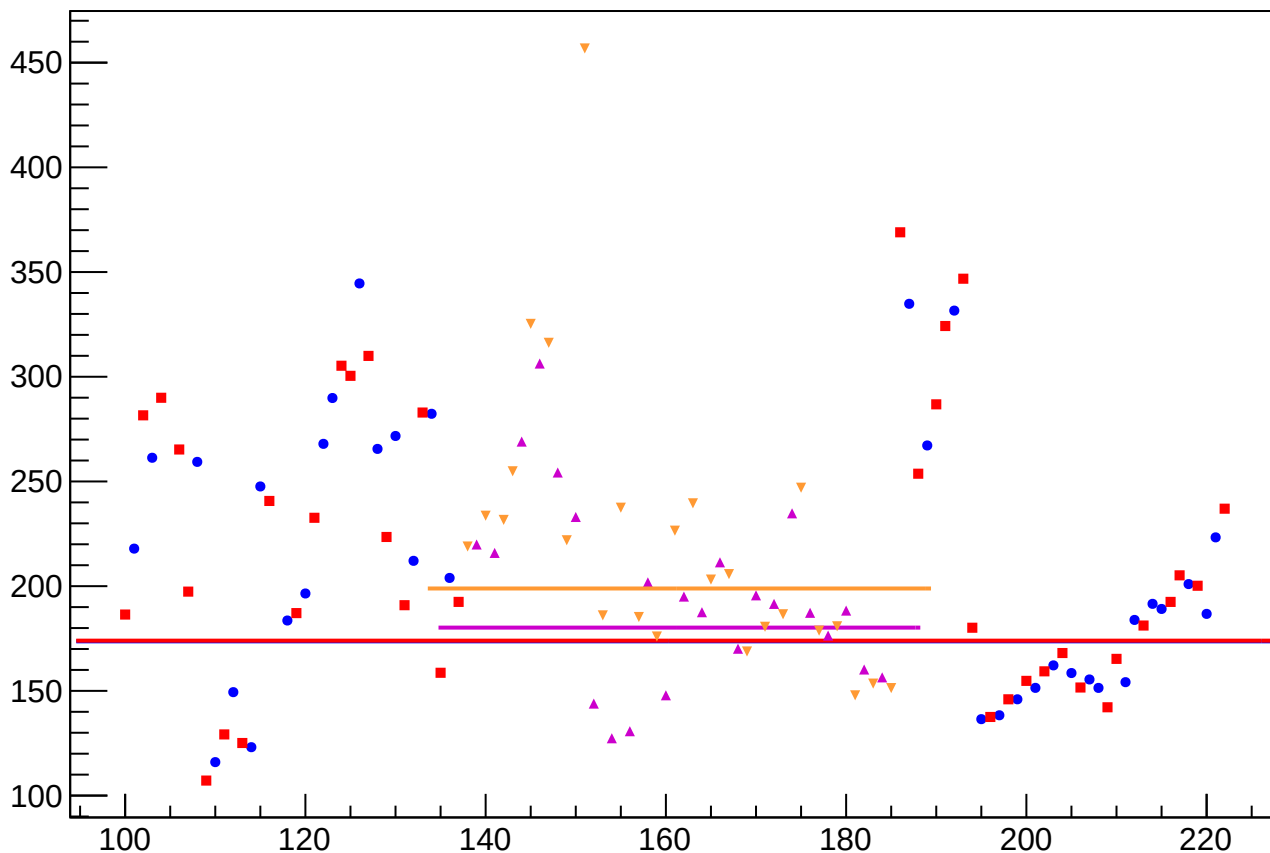
Right: -77.975 ± 28.861 $\chi^2/\text{NDF}: 40.9/72$

In: -23.603 ± 30.317 $\chi^2/\text{NDF}: 33.4/57$

Out: -40.993 ± 31.025 $\chi^2/\text{NDF}: 27.1/62$

All: -32.098 ± 21.683 $\chi^2/\text{NDF}: 60.6/120$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.649 $\pm$ 0.029 χ^2 /NDF: 2253810.9/34

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 173.983 $\pm$ 0.029 χ^2 /NDF: 3045048.7/37

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

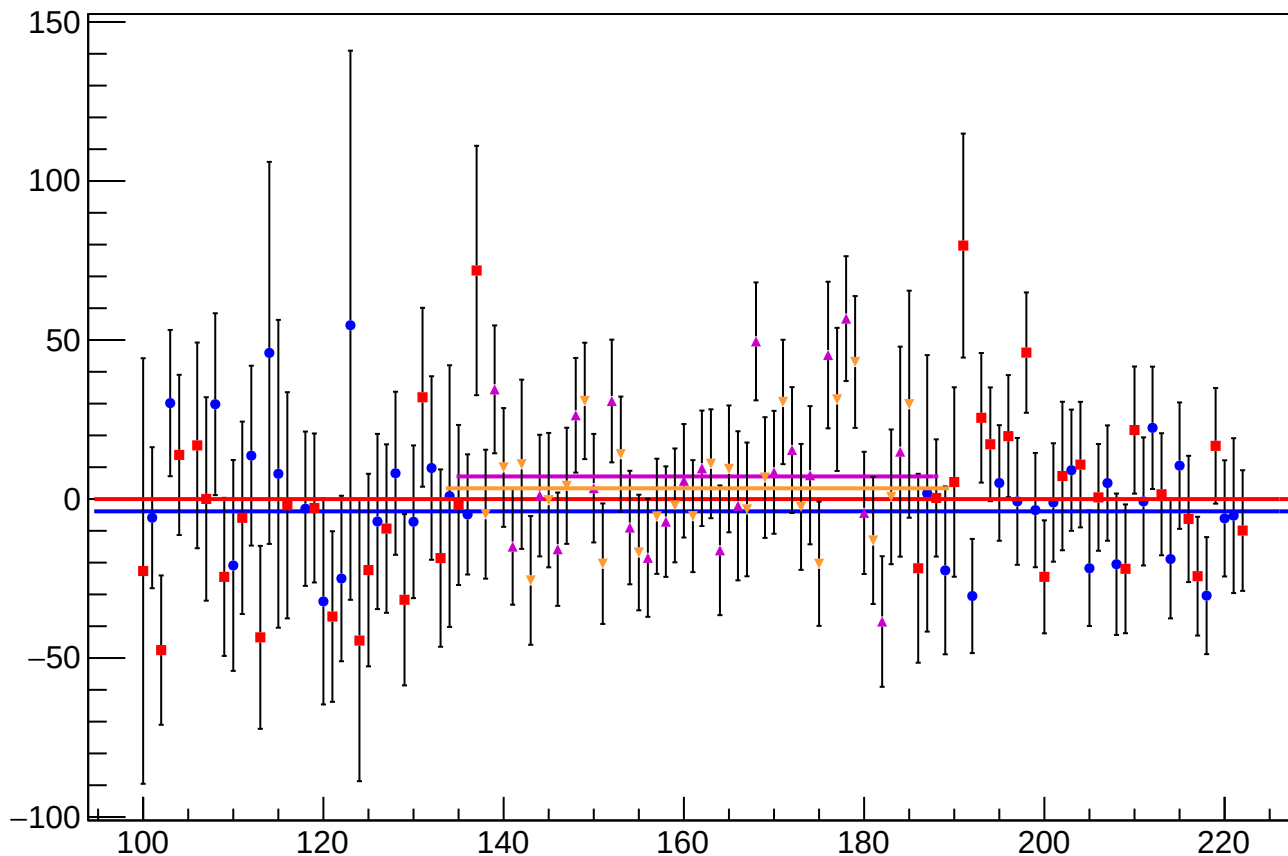
Right: 173.818 $\pm$ 0.020 χ^2 /NDF: 5298926.7/72

In: 176.617 $\pm$ 0.021 χ^2 /NDF:3866001.5/57

Out: 184.386 $\pm$ 0.022 χ^2 /NDF:5121018.8/62

All: 180.412 $\pm$ 0.015 χ^2 /NDF: 9051173.3/120

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.876 ± 3.861 χ^2/NDF : 17.7/34

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: -0.027 ± 3.788 χ^2/NDF : 40.9/37

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

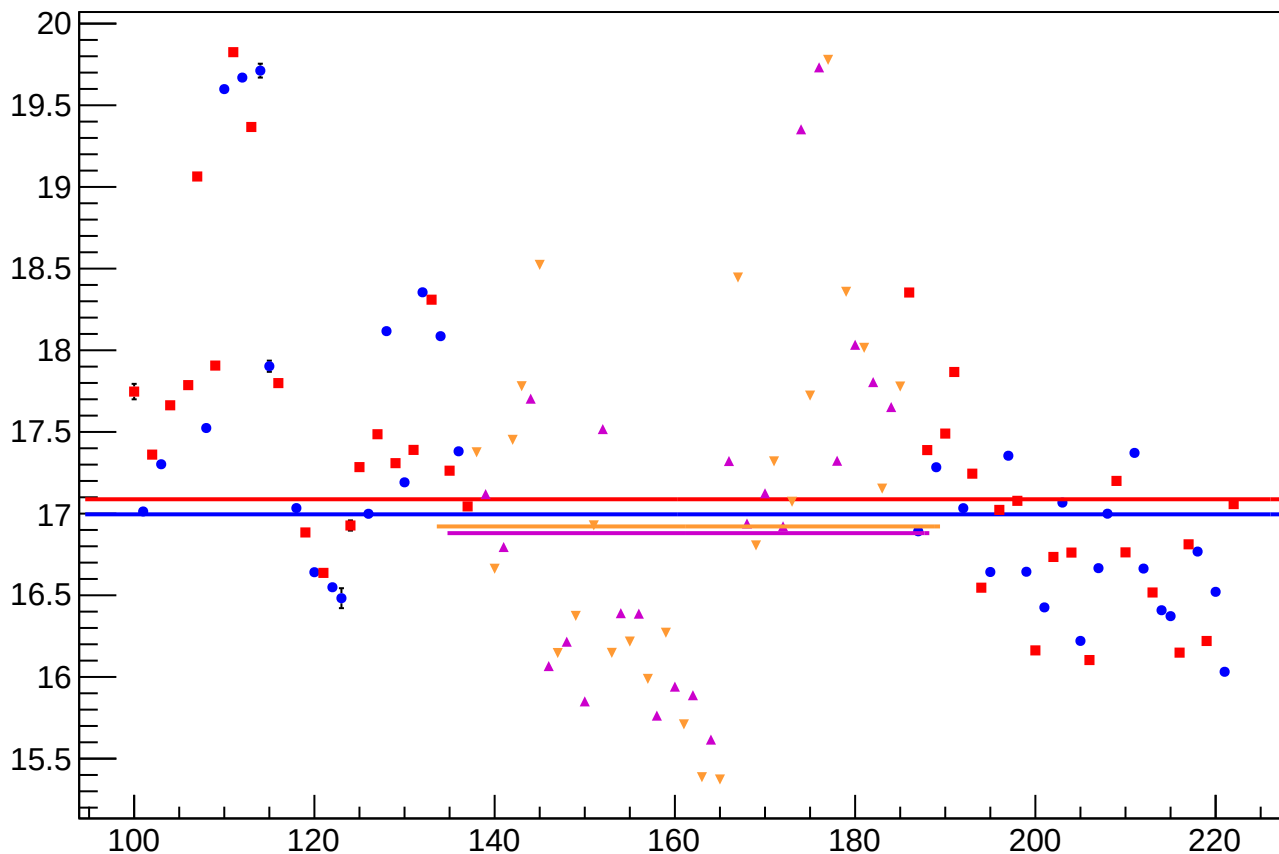
Right: -1.915 ± 2.704 χ^2/NDF : 59.1/72

In: 1.353 ± 2.794 χ^2/NDF : 54.1/57

Out: 1.603 ± 2.733 χ^2/NDF : 60.1/62

All: 1.480 ± 1.954 χ^2/NDF : 114.2/120

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.996 $\pm$ 0.003 χ^2 /NDF: 66240.4/34

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.088 $\pm$ 0.003 χ^2 /NDF: 80174.8/37

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

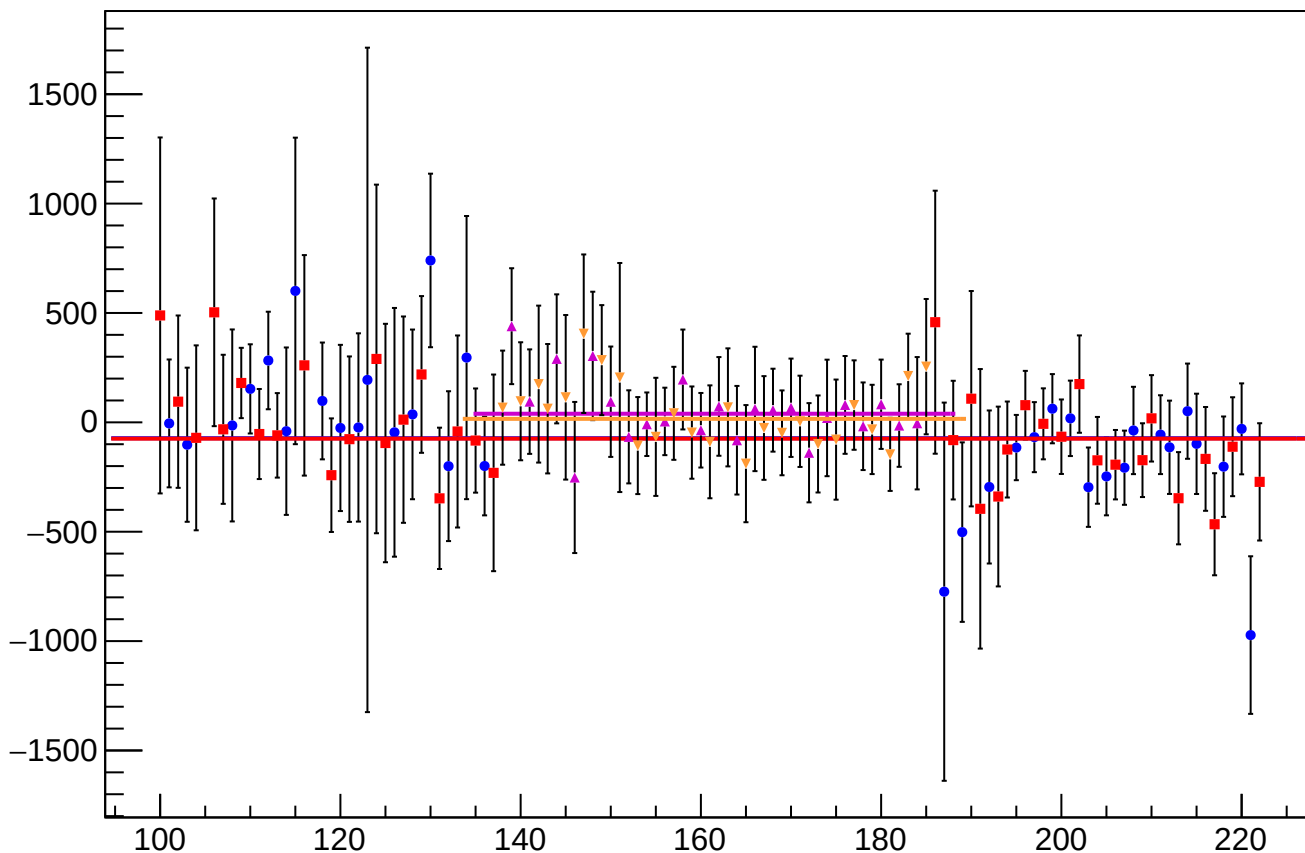
Right: 17.043 $\pm$ 0.002 χ^2 /NDF: 146996.8/72

In: 16.941 $\pm$ 0.002 χ^2 /NDF:188824.6/57

Out: 17.008 $\pm$ 0.002 χ^2 /NDF:221015.7/62

All: 16.975 $\pm$ 0.001 χ^2 /NDF: 410433.9/120

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -72.630 ± 41.202 χ^2/NDF : 23.7/34

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -74.559 ± 40.950 χ^2/NDF : 17.7/37

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

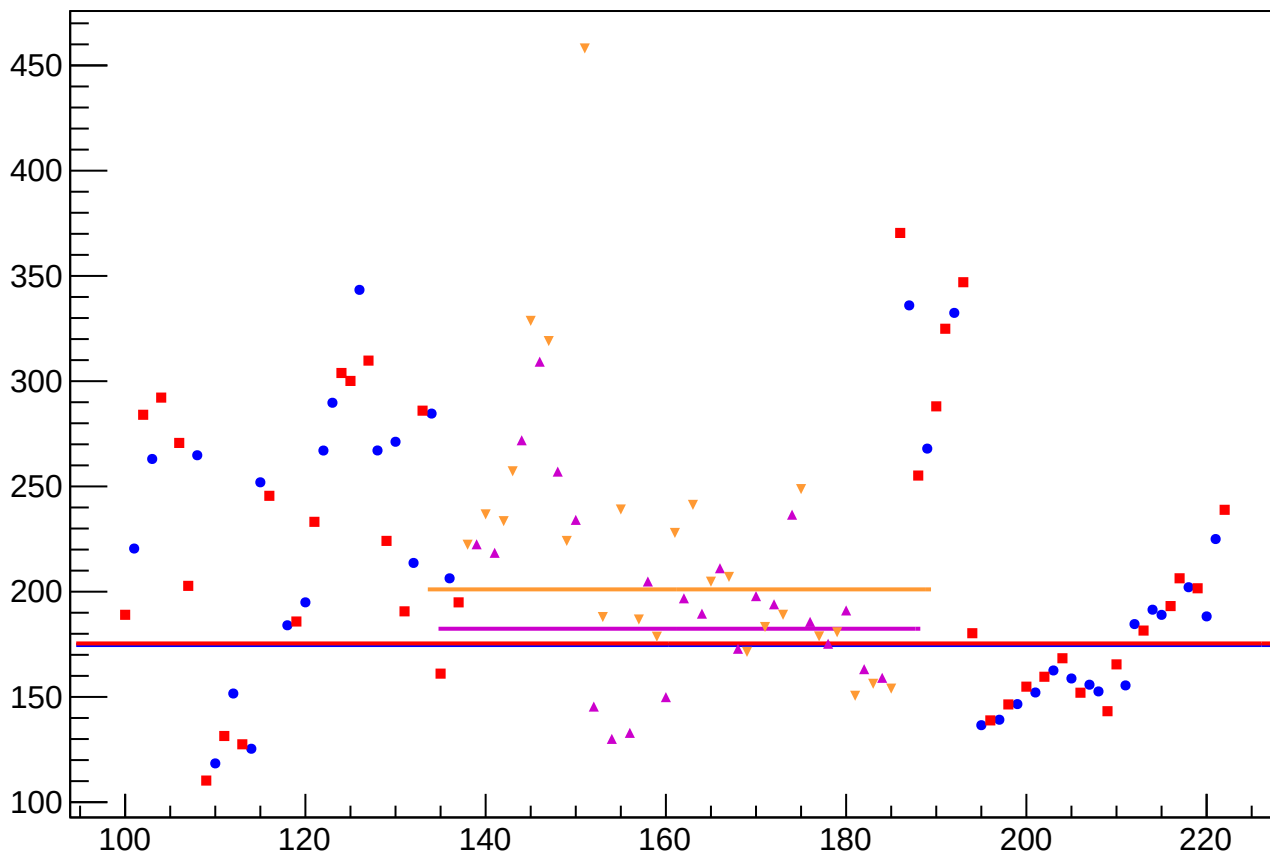
Right: -73.600 ± 29.045 χ^2/NDF : 41.3/72

In: -22.251 ± 30.562 χ^2/NDF : 33.9/57

Out: -36.885 ± 31.290 χ^2/NDF : 27.1/62

All: -29.396 ± 21.863 χ^2/NDF : 61.1/120

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.649 $\pm$ 0.029 χ^2 /NDF: 2236426.7/34

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 175.414 $\pm$ 0.029 χ^2 /NDF: 2985091.2/37

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

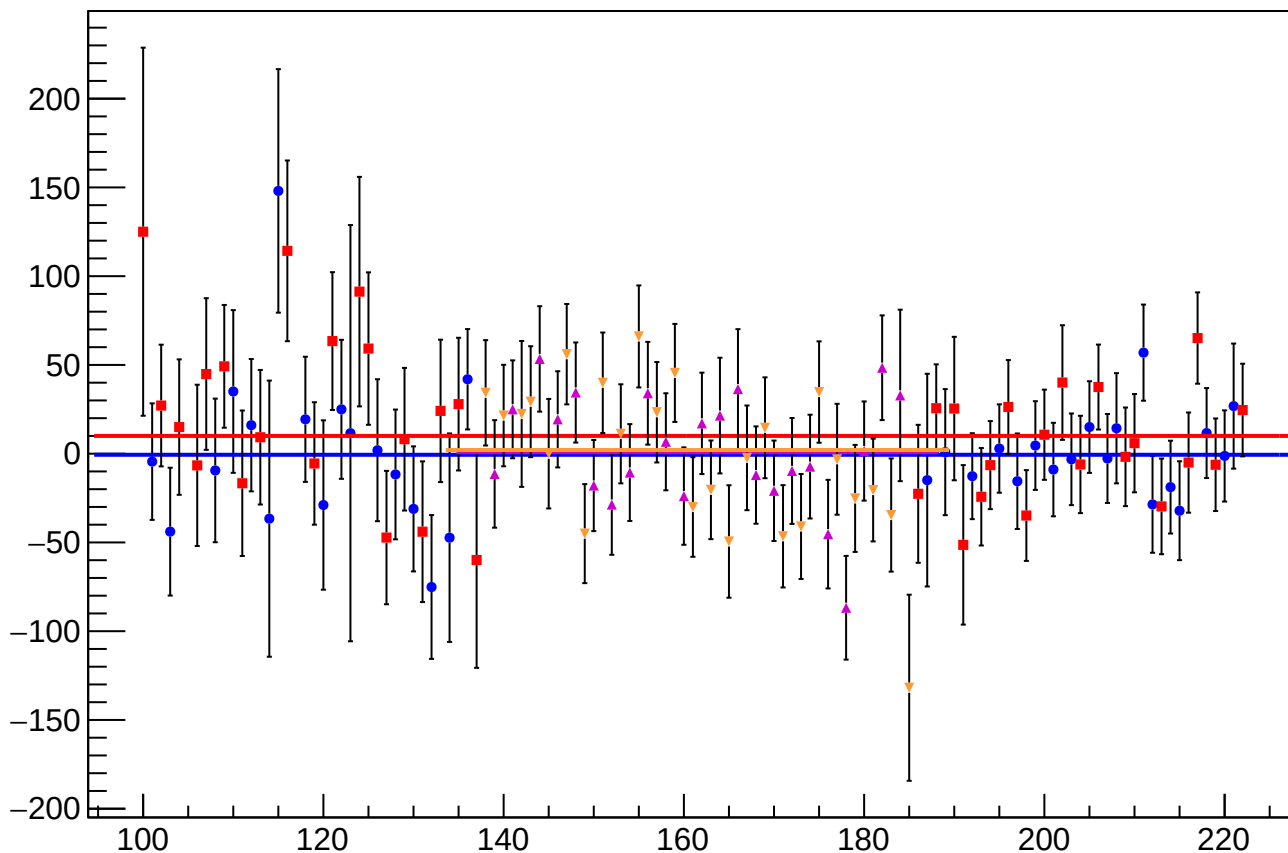
Right: 175.034 $\pm$ 0.021 χ^2 /NDF: 5221864.6/72

In: 178.133 $\pm$ 0.022 χ^2 /NDF:3817138.2/57

Out: 186.100 $\pm$ 0.022 χ^2 /NDF:5043416.4/62

All: 182.023 $\pm$ 0.015 χ^2 /NDF: 8926896.6/120

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.613 ± 5.425 χ^2/NDF : 25.0/34

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.016 ± 5.298 χ^2/NDF : 38.1/37

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

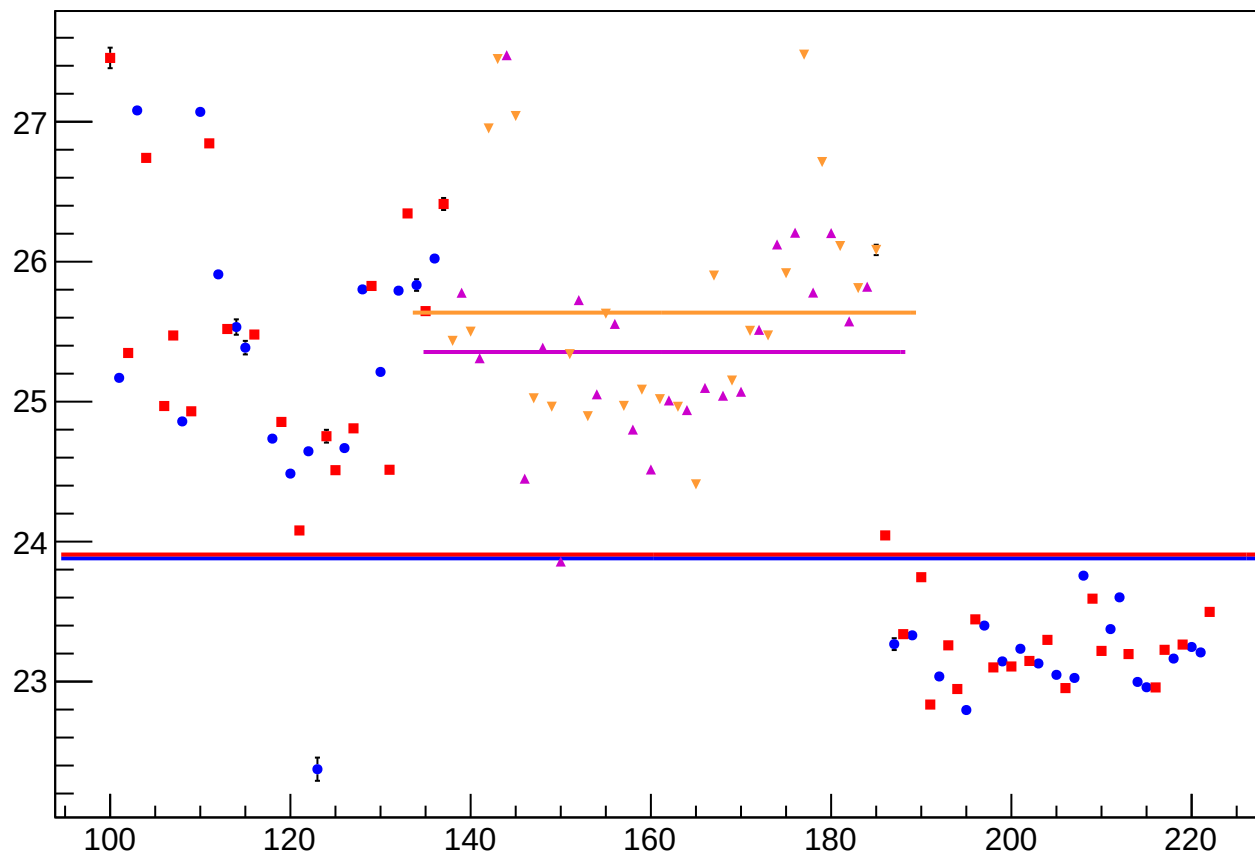
Right: 4.828 ± 3.790 χ^2/NDF : 65.1/72

In: 0.059 ± 4.045 χ^2/NDF : 52.1/57

Out: 6.508 ± 3.963 χ^2/NDF : 78.5/62

All: 3.350 ± 2.831 χ^2/NDF : 132.0/120

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.880 $\pm$ 0.004 χ^2 /NDF: 92983.8/34

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 23.908 $\pm$ 0.004 χ^2 /NDF: 86315.0/37

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

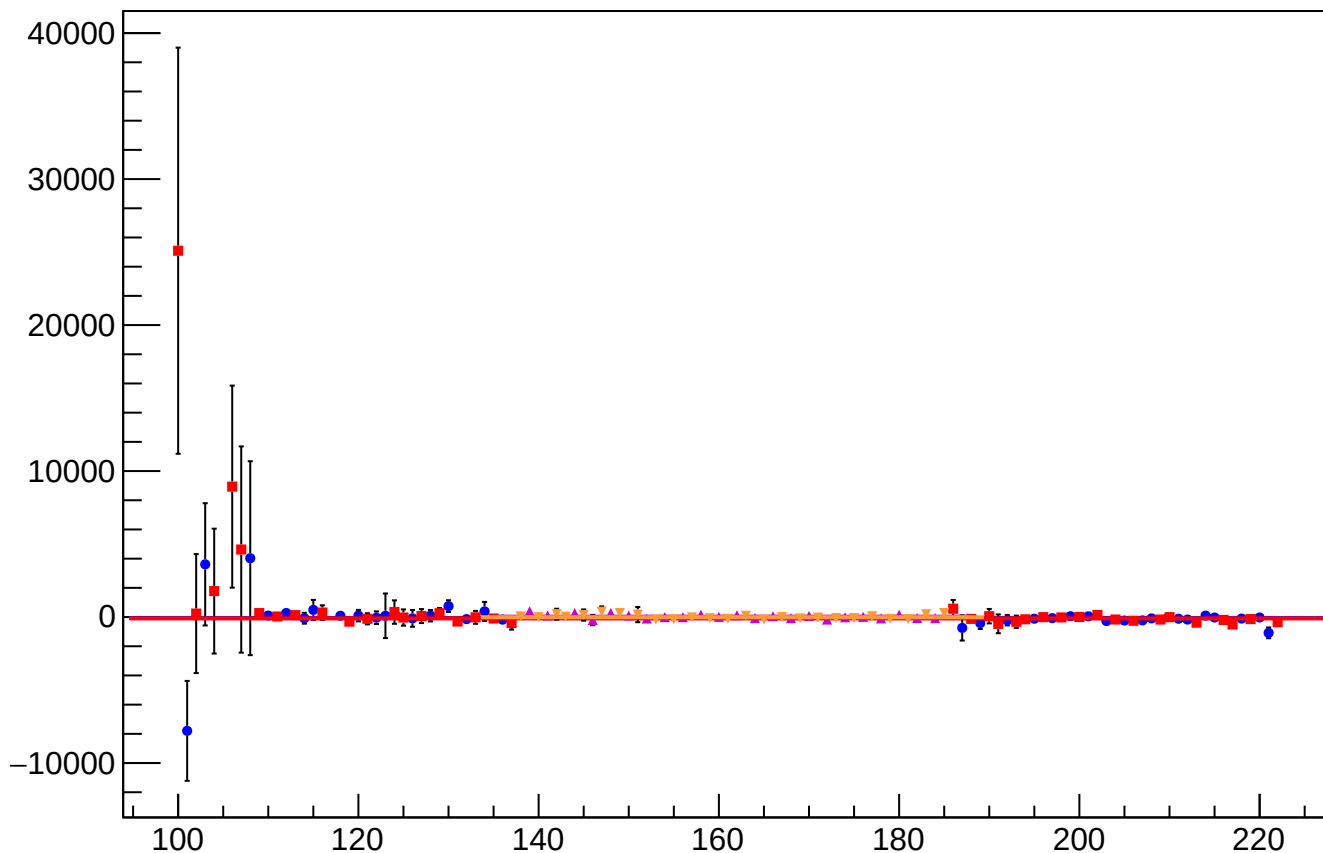
Right: 23.894 $\pm$ 0.003 χ^2 /NDF: 179324.9/72

In: 24.535 $\pm$ 0.003 χ^2 /NDF:188356.9/57

Out: 24.669 $\pm$ 0.003 χ^2 /NDF:215219.1/62

All: 24.604 $\pm$ 0.002 χ^2 /NDF: 404696.5/120

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.781 $\pm$ 42.901 χ^2 /NDF: 29.6/34

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF:7.9/24

Right Out: -91.381 $\pm$ 43.234 χ^2 /NDF: 25.4/37

Left In: 26.836 $\pm$ 45.876 χ^2 /NDF:7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47

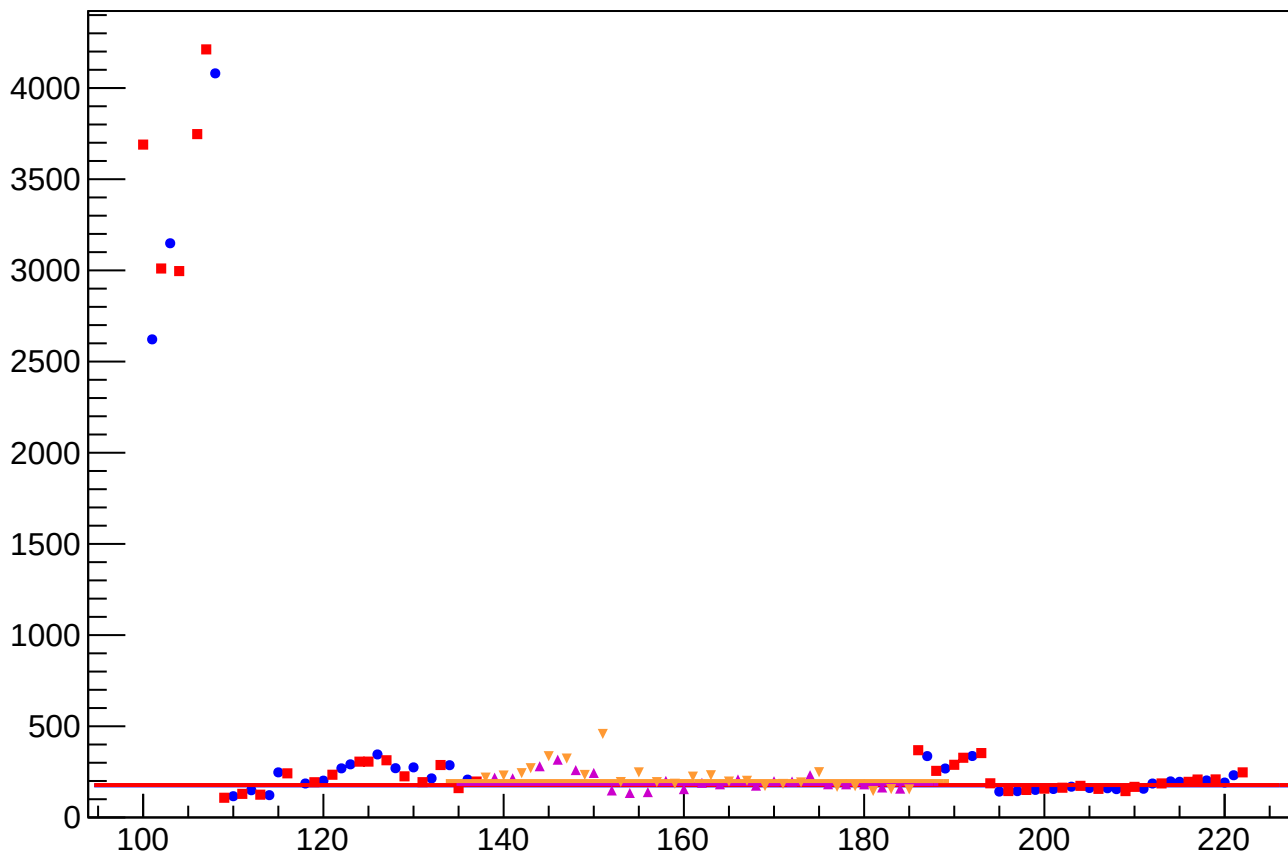
Right: -81.505 $\pm$ 30.452 χ^2 /NDF: 55.1/72

In: -25.774 $\pm$ 31.334 χ^2 /NDF:39.6/57

Out: -56.368 $\pm$ 32.189 χ^2 /NDF:34.7/62

All: -40.659 $\pm$ 22.453 χ^2 /NDF: 74.8/120

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.845 $\pm$ 0.030 χ^2 /NDF: 4656076.2/34

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 177.686 $\pm$ 0.031 χ^2 /NDF: 5630025.0/37

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

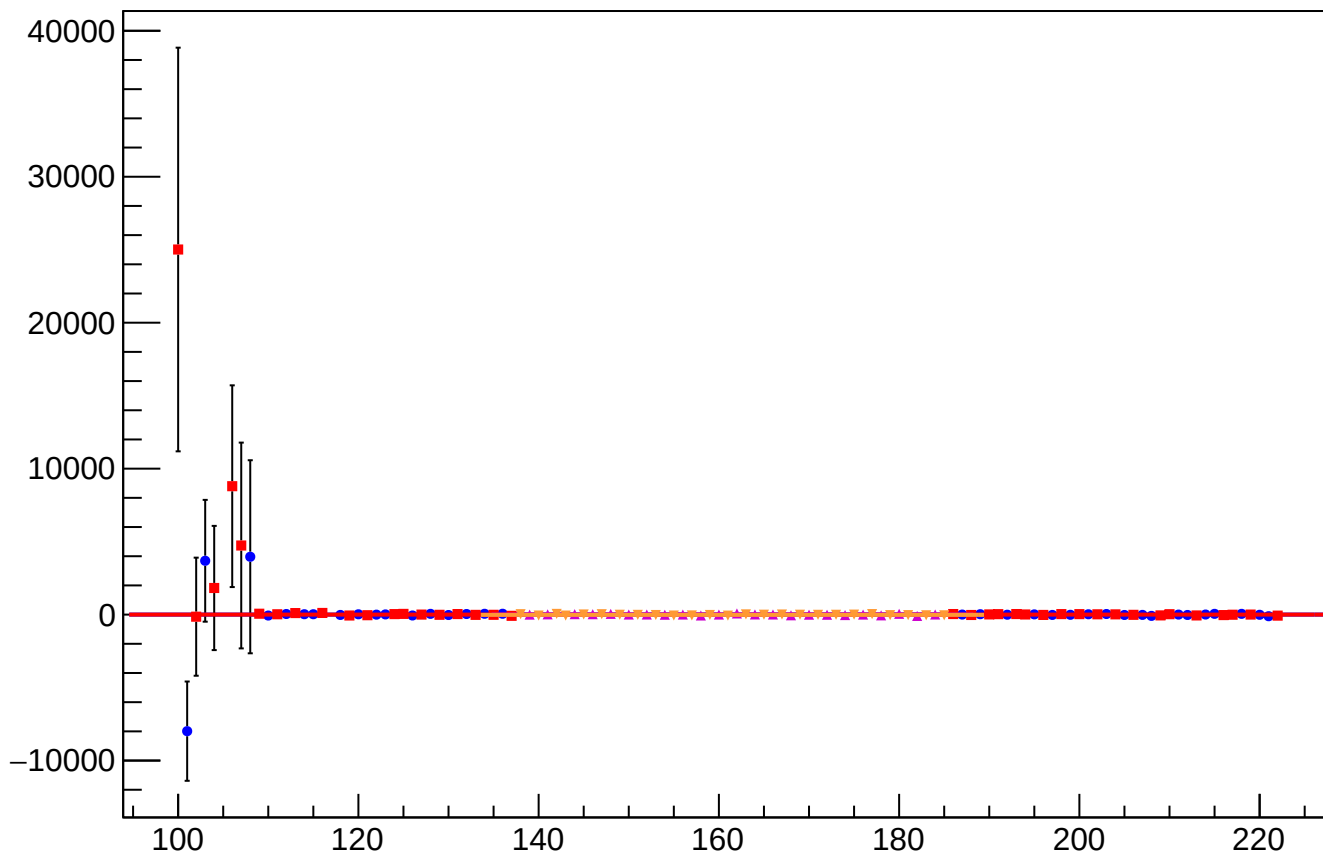
Right: 176.758 $\pm$ 0.022 χ^2 /NDF: 10287927.2/72

In: 179.664 $\pm$ 0.022 χ^2 /NDF:6113504.2/57

Out: 187.424 $\pm$ 0.023 χ^2 /NDF:7738242.2/62

All: 183.440 $\pm$ 0.016 χ^2 /NDF: 13911417.9/12

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.182+/-6.508 χ^2/NDF : 42.6/34

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 0.825+/-6.481 χ^2/NDF : 43.9/37

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

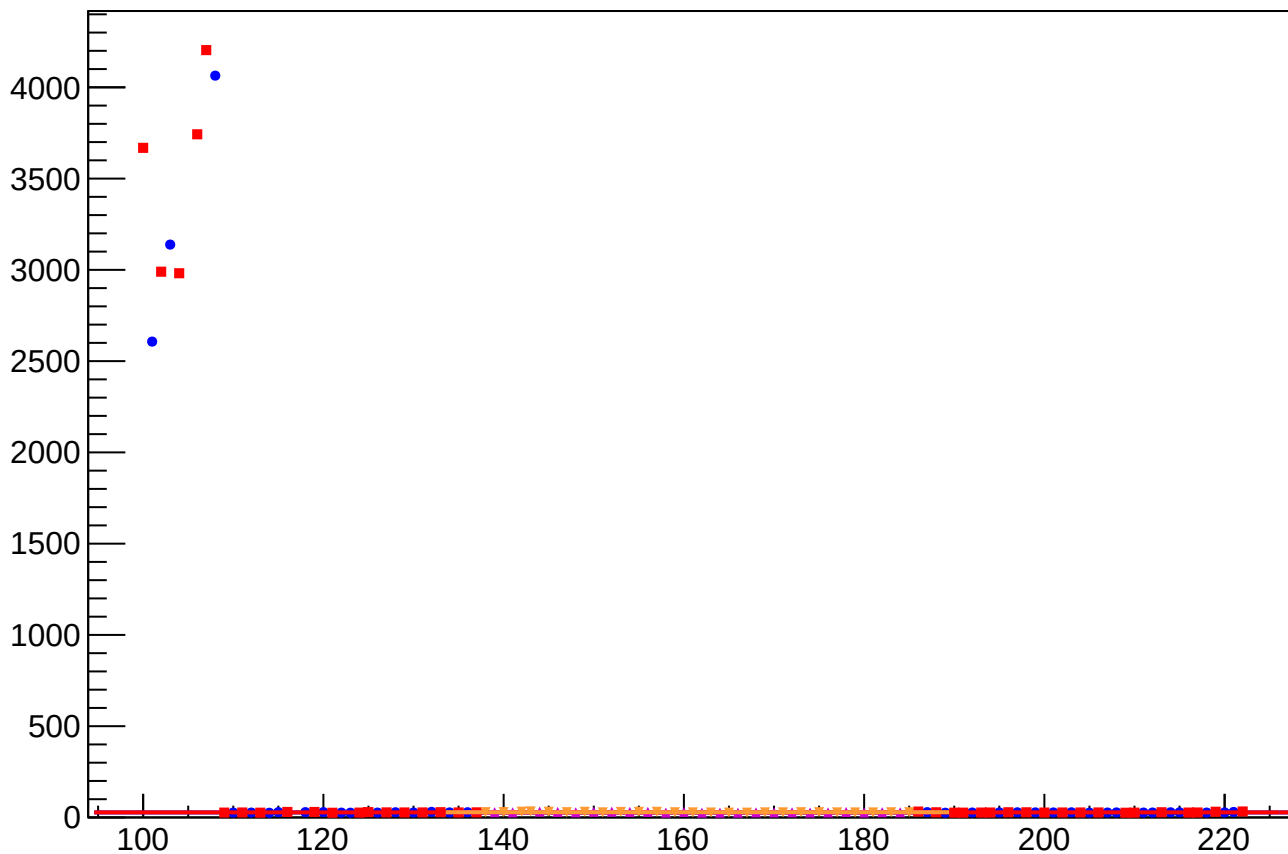
Right: 1.003+/-4.592 χ^2/NDF : 86.5/72

In: 1.114+/-4.728 χ^2/NDF : 75.0/57

Out: -8.081+/-4.656 χ^2/NDF : 70.1/62

All: -3.554+/-3.318 χ^2/NDF : 147.1/120

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.523+/-0.005 χ^2/NDF : 3052461.4/34

Left Out: 28.691+/-0.005 χ^2/NDF :110483.8/24

Right Out: 27.725+/-0.005 χ^2/NDF : 3576133.3/37

Left In: 28.673+/-0.005 χ^2/NDF :124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

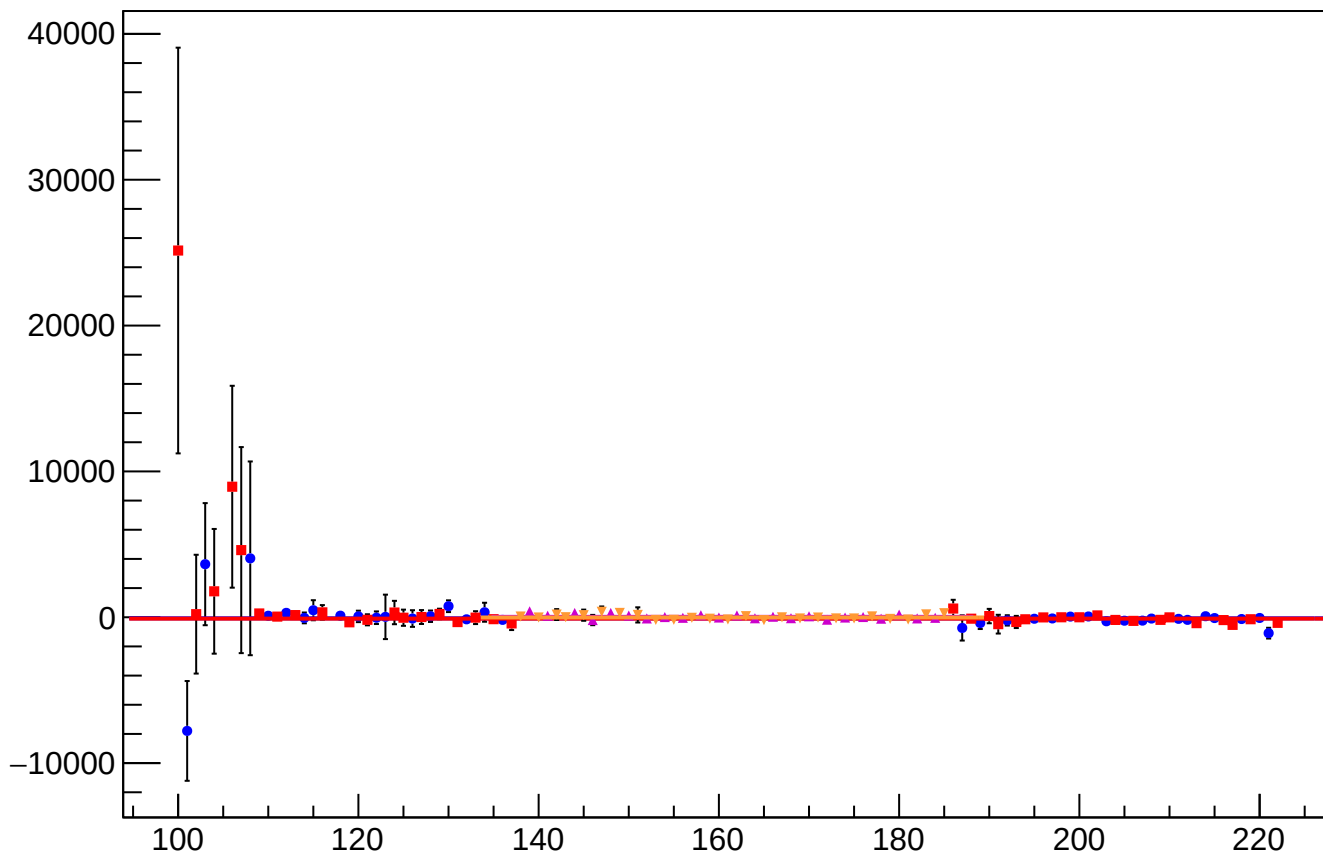
Right: 27.625+/-0.003 χ^2/NDF : 6629561.4/72

In: 28.066+/-0.003 χ^2/NDF :3206678.2/57

Out: 28.192+/-0.003 χ^2/NDF :3708098.8/62

All: 28.130+/-0.002 χ^2/NDF : 6915502.2/120

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -73.238 ± 42.769 $\chi^2/\text{NDF}: 29.9/34$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -94.369 ± 43.109 $\chi^2/\text{NDF}: 26.6/37$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

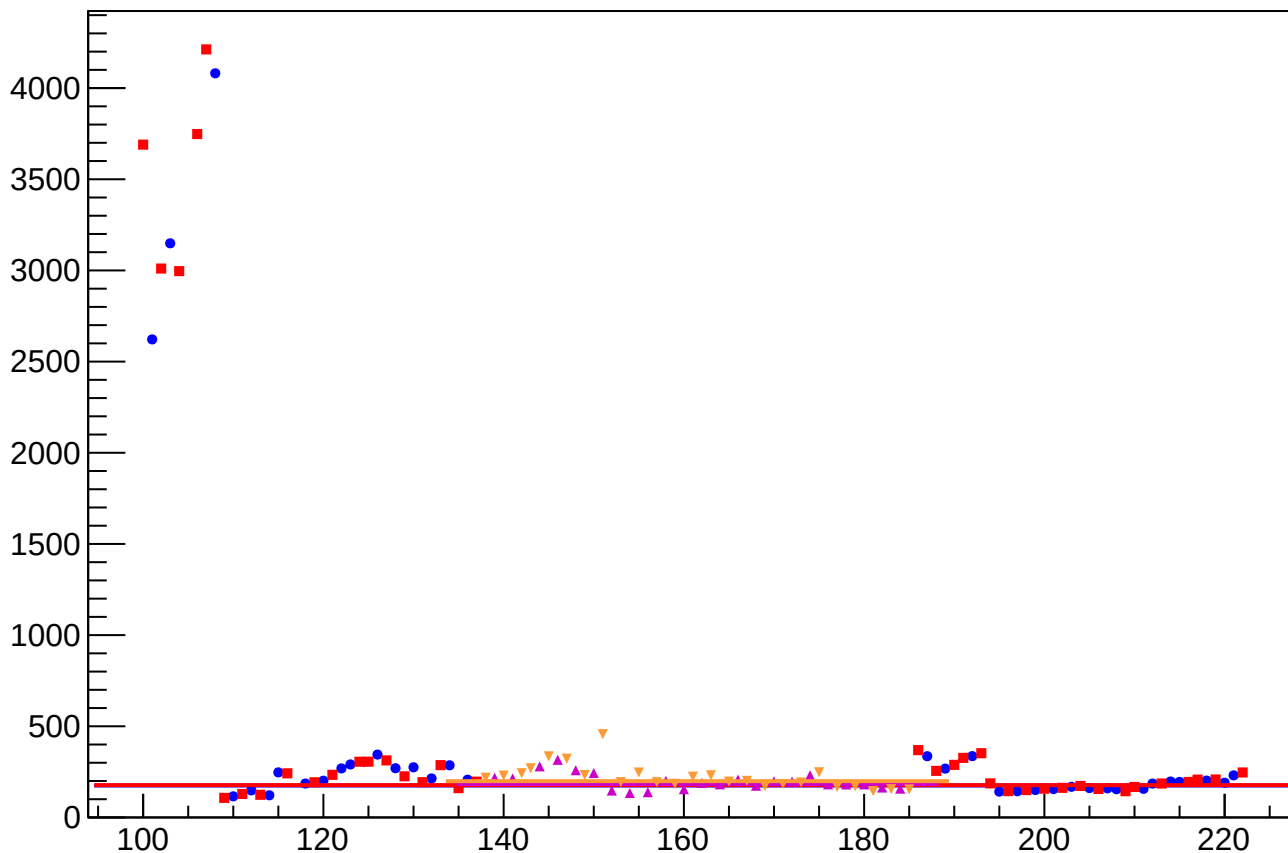
Right: -83.720 ± 30.362 $\chi^2/\text{NDF}: 56.6/72$

In: -26.524 ± 31.254 $\chi^2/\text{NDF}: 40.3/57$

Out: -59.237 ± 32.105 $\chi^2/\text{NDF}: 36.8/62$

All: -42.441 ± 22.395 $\chi^2/\text{NDF}: 77.6/120$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.269+/-0.030 χ^2/NDF : 4669576.2/34

Left Out: 199.094+/-0.034 χ^2/NDF :1880343.4/24

Right Out: 177.126+/-0.030 χ^2/NDF : 5648626.7/37

Left In: 183.667+/-0.032 χ^2/NDF :1422895.7/22

Left: 190.999+/-0.023 χ^2/NDF : 3411149.8/47

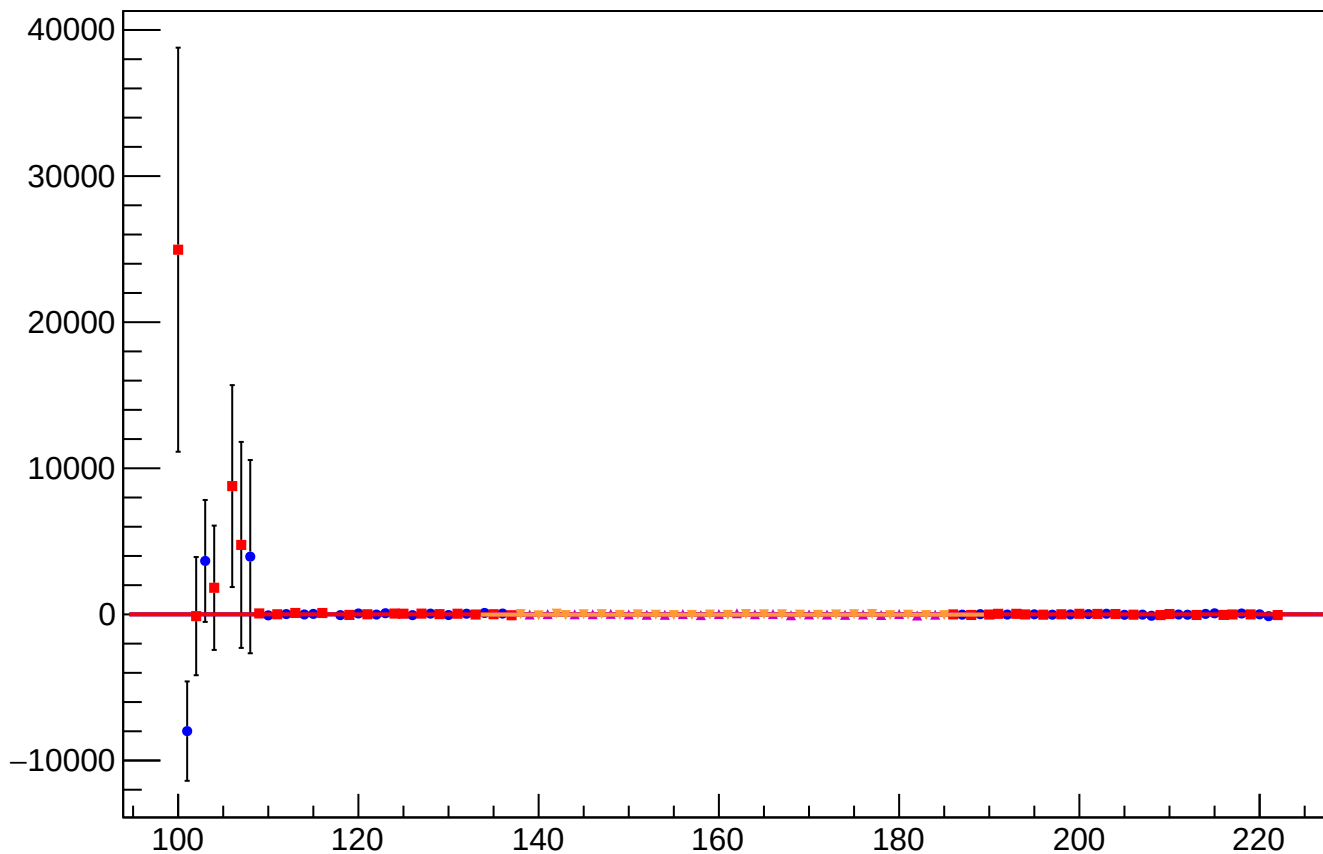
Right: 176.190+/-0.021 χ^2/NDF : 10320072.8/72

In: 179.183+/-0.022 χ^2/NDF :6128404.8/57

Out: 186.909+/-0.023 χ^2/NDF :7760266.8/62

All: 182.942+/-0.016 χ^2/NDF : 13948151.3/12

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.465+/-6.462 χ^2/NDF : 52.8/34

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 4.614+/-6.447 χ^2/NDF : 36.8/37

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

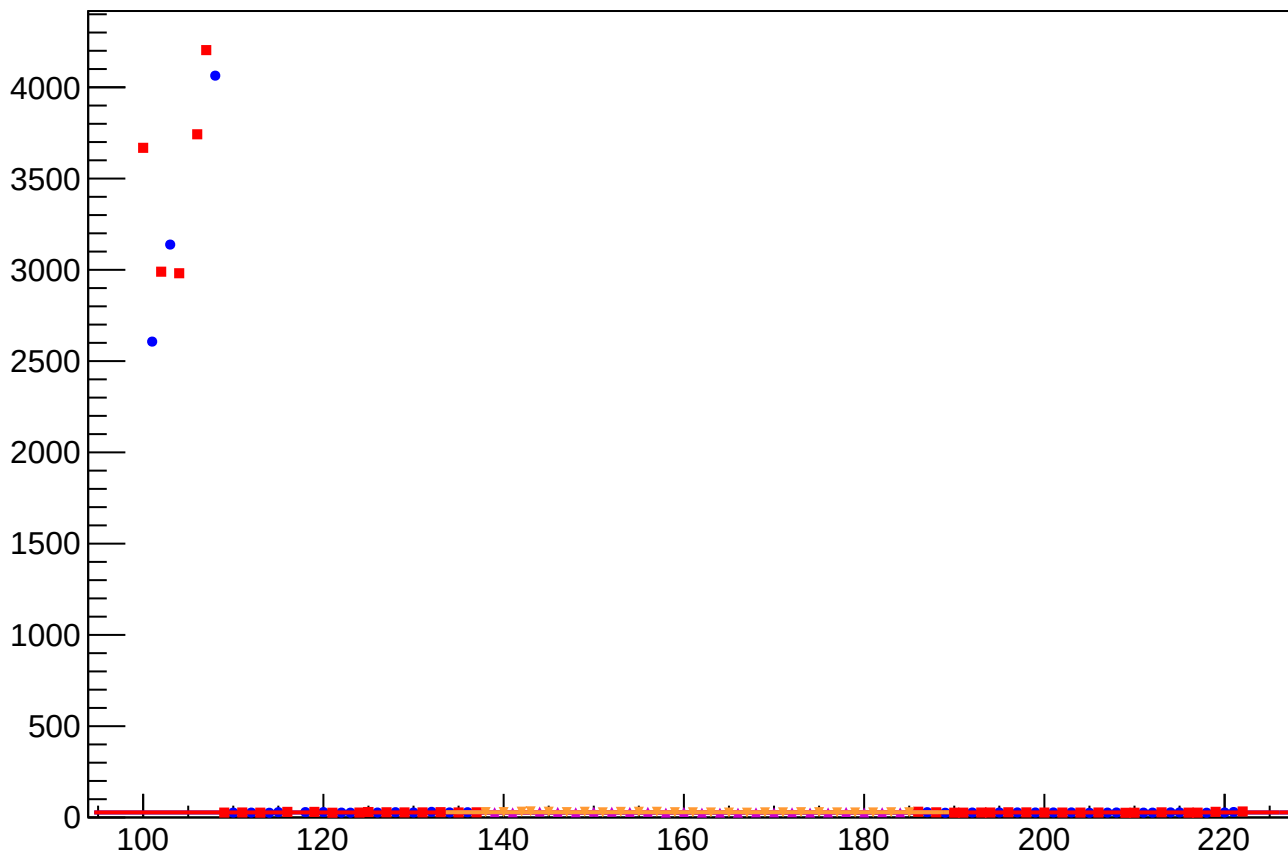
Right: 3.542+/-4.564 χ^2/NDF : 89.7/72

In: 0.987+/-4.720 χ^2/NDF : 79.3/57

Out: -4.785+/-4.654 χ^2/NDF : 58.7/62

All: -1.940+/-3.314 χ^2/NDF : 138.8/120

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.325 $\pm$ 0.005 χ^2 /NDF: 3062954.8/34

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.577 $\pm$ 0.005 χ^2 /NDF: 3582517.0/37

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

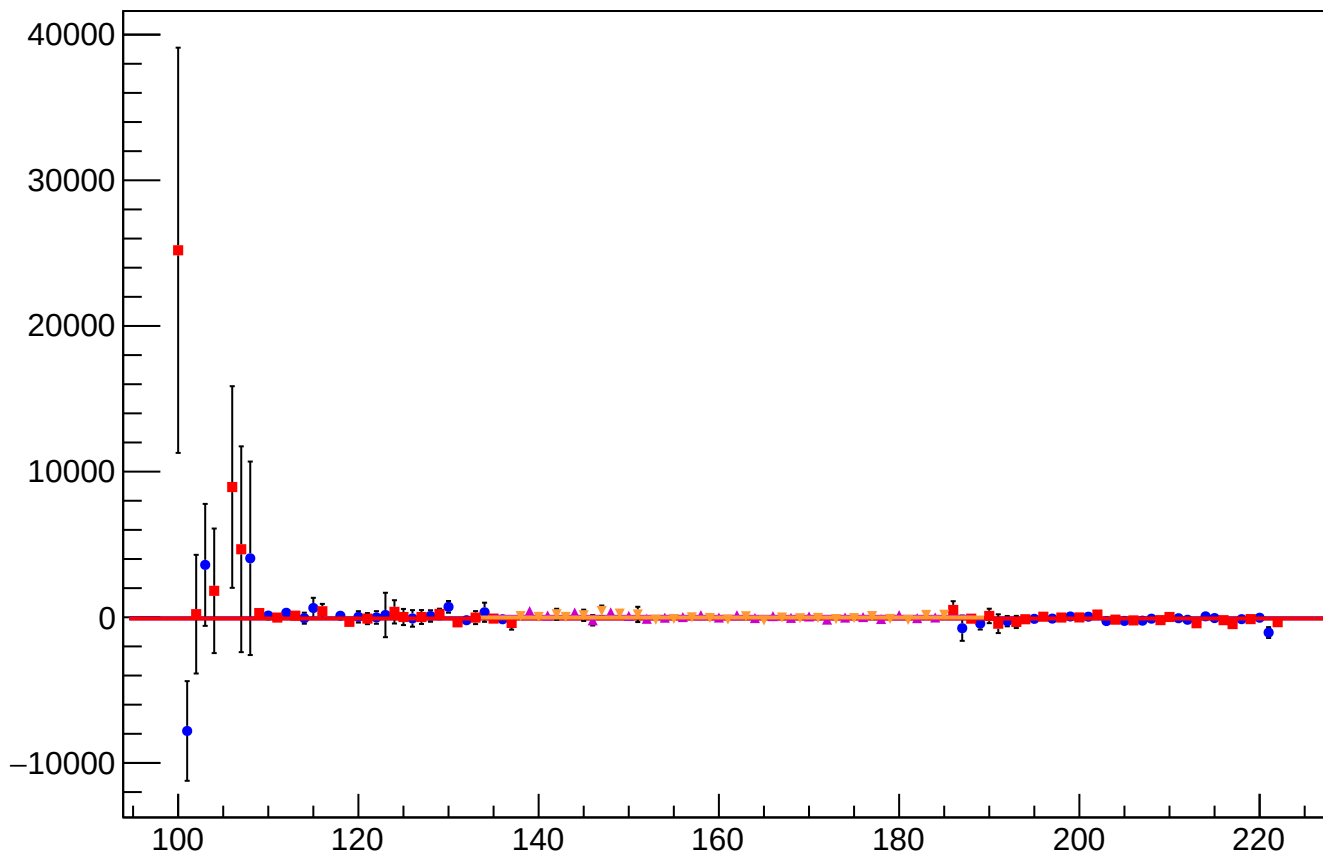
Right: 27.451 $\pm$ 0.003 χ^2 /NDF: 6646999.4/72

In: 28.010 $\pm$ 0.003 χ^2 /NDF: 3240493.5/57

Out: 28.169 $\pm$ 0.003 χ^2 /NDF: 3739687.4/62

All: 28.090 $\pm$ 0.002 χ^2 /NDF: 6981337.4/120

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -71.439 $\pm$ 43.059 χ^2 /NDF: 29.3/34

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -84.768 $\pm$ 43.423 χ^2 /NDF: 25.1/37

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

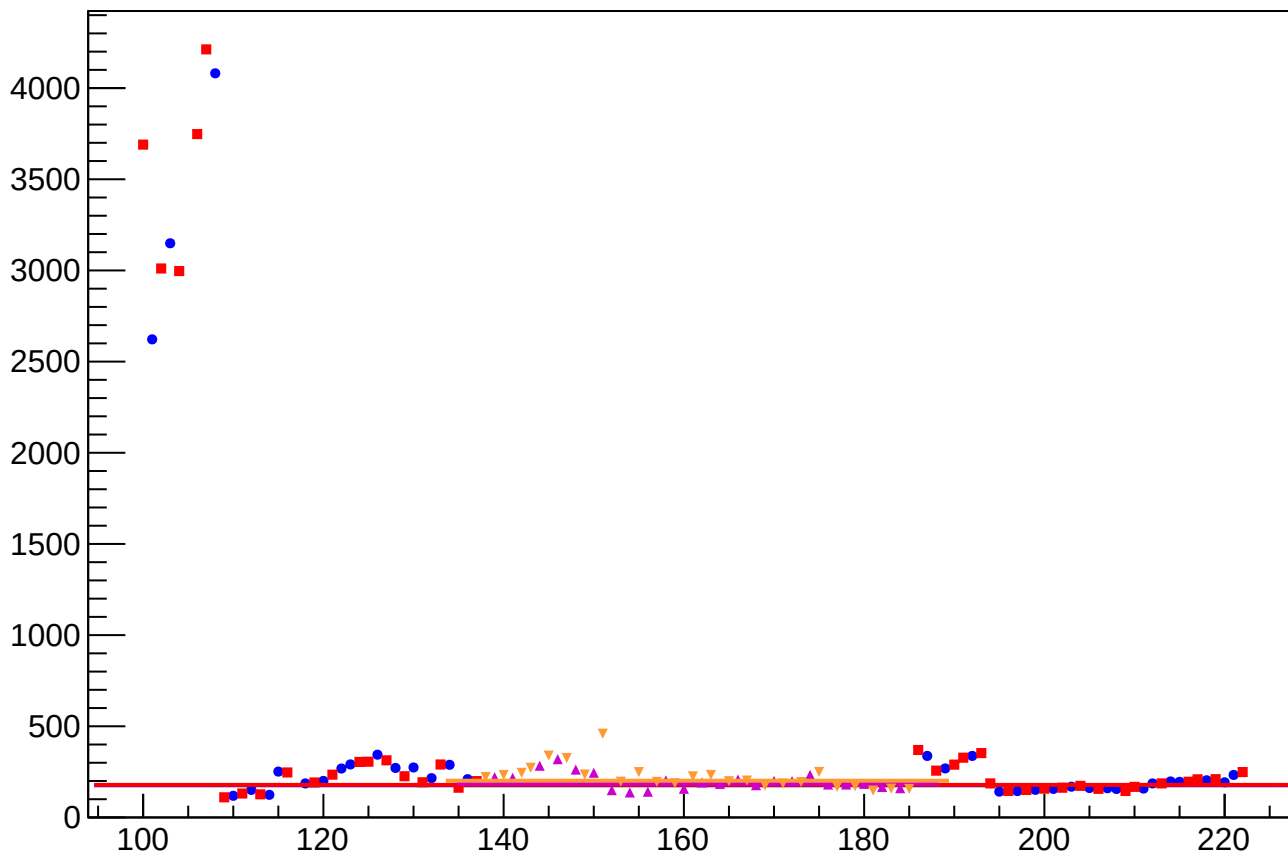
Right: -78.047 $\pm$ 30.575 χ^2 /NDF: 54.5/72

In: -23.916 $\pm$ 31.550 χ^2 /NDF:40.1/57

Out: -54.101 $\pm$ 32.407 χ^2 /NDF:34.3/62

All: -38.604 $\pm$ 22.606 χ^2 /NDF: 74.8/120

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.547 $\pm$ 0.030 χ^2 /NDF: 4636033.3/34

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 178.589 $\pm$ 0.031 χ^2 /NDF: 5589180.5/37

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

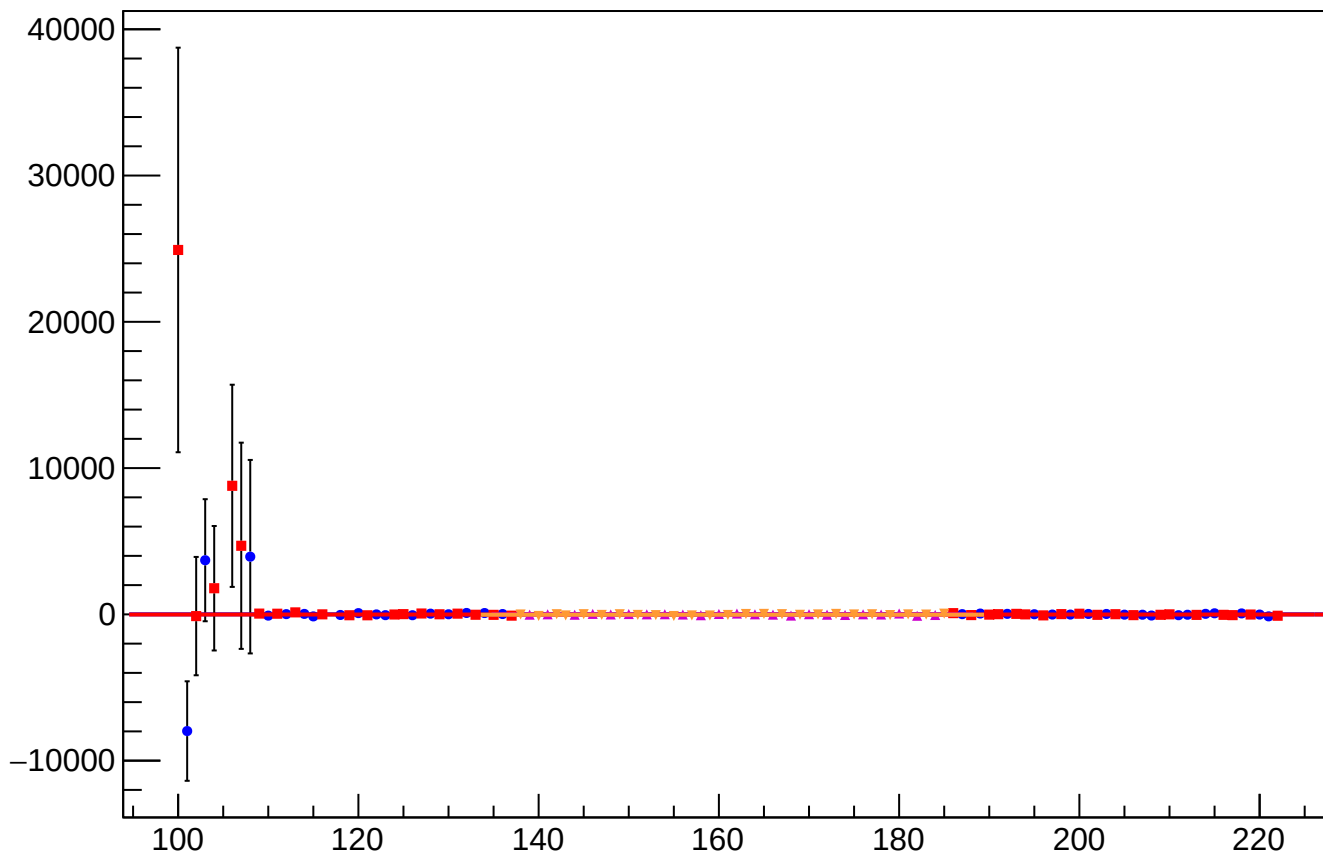
Right: 177.560 $\pm$ 0.022 χ^2 /NDF: 10227443.5/72

In: 180.975 $\pm$ 0.022 χ^2 /NDF:6073015.9/57

Out: 188.784 $\pm$ 0.023 χ^2 /NDF:7695452.5/62

All: 184.775 $\pm$ 0.016 χ^2 /NDF: 13828087.1/12

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.129+/-7.873 χ^2/NDF : 45.3/34

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: -9.647+/-7.836 χ^2/NDF : 42.4/37

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

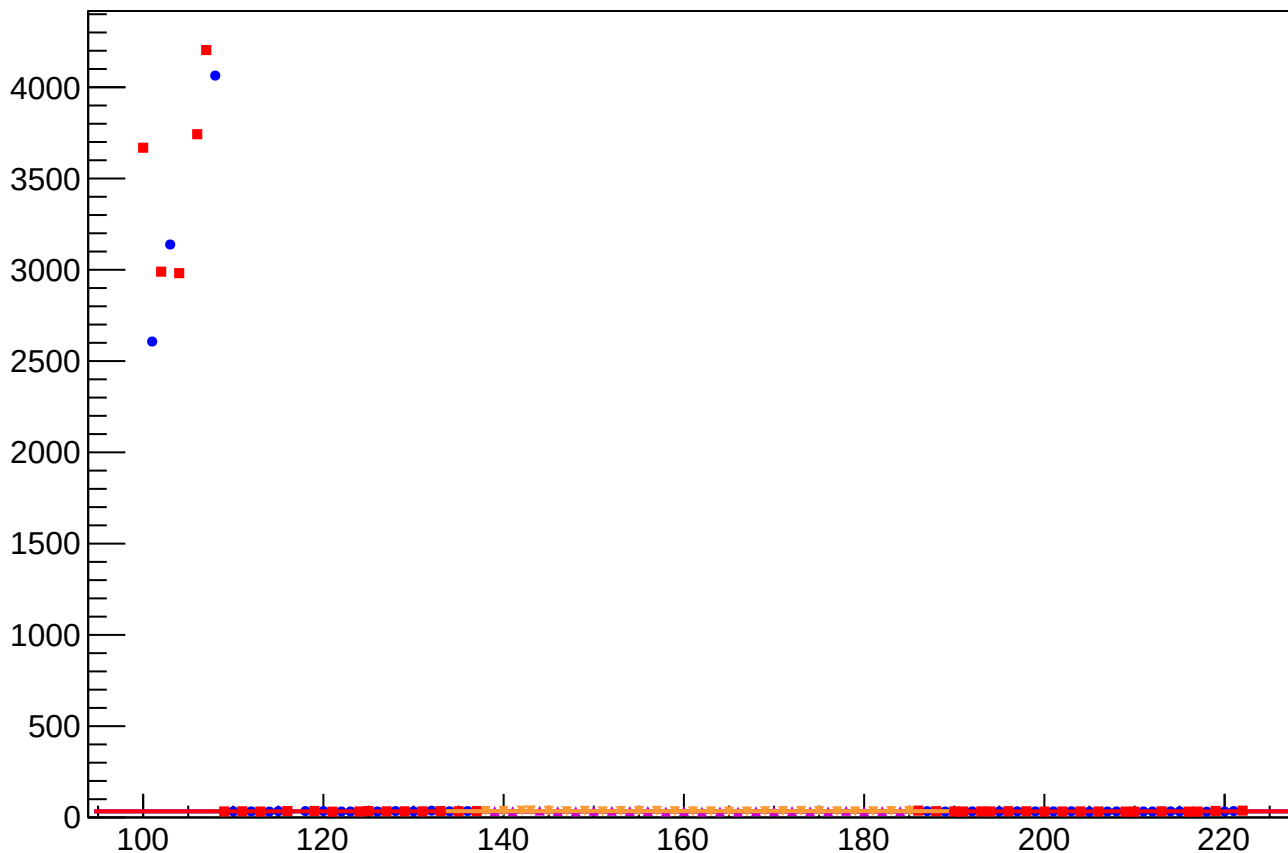
Right: -3.289+/-5.554 χ^2/NDF : 89.0/72

In: -1.190+/-5.715 χ^2/NDF : 67.0/57

Out: -16.306+/-5.620 χ^2/NDF : 69.7/62

All: -8.875+/-4.007 χ^2/NDF : 140.3/120

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.313+/-0.006 χ^2/NDF : 3026791.9/34

Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24

Right Out: 33.579+/-0.006 χ^2/NDF : 3502900.3/37

Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47

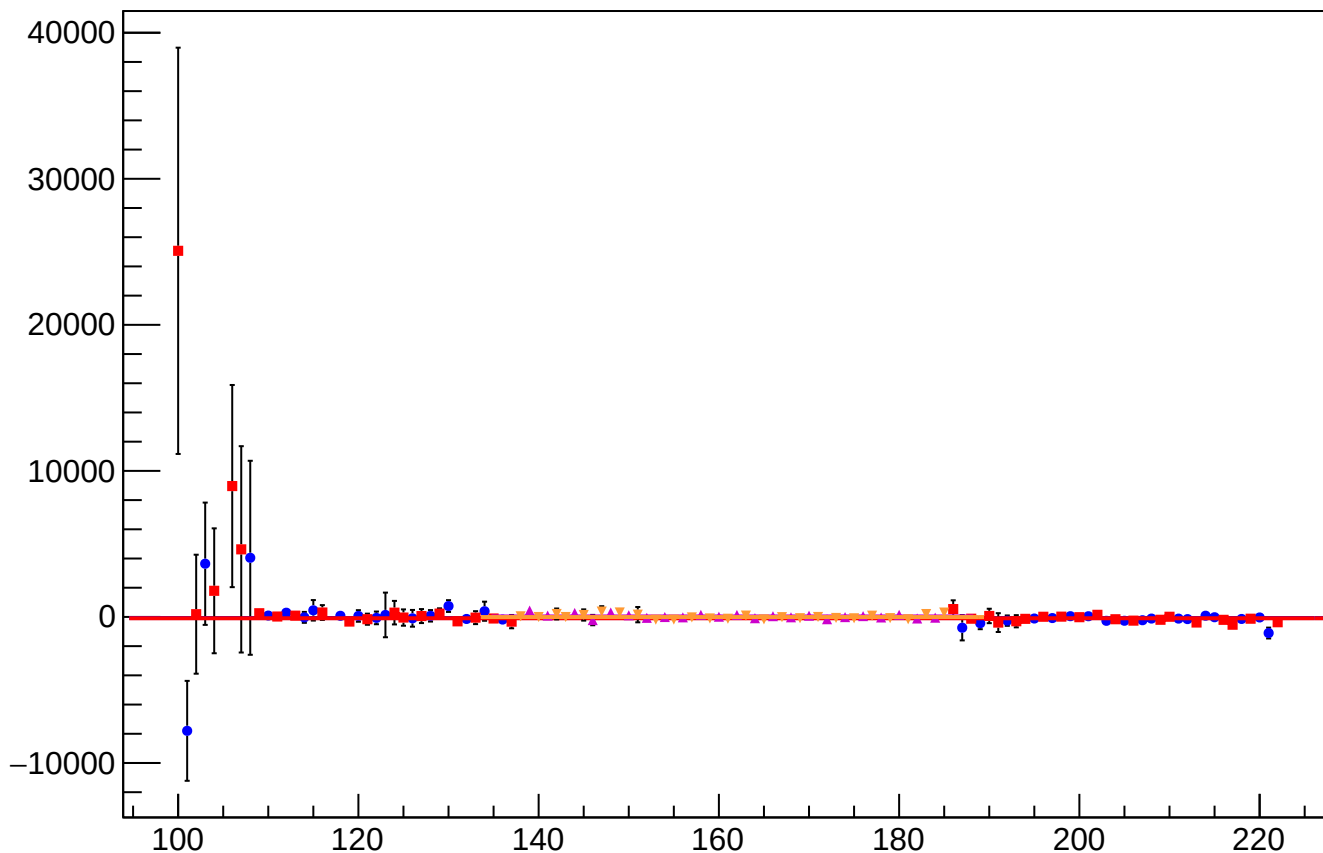
Right: 33.446+/-0.004 χ^2/NDF : 6530843.2/72

In: 33.962+/-0.004 χ^2/NDF : 3115860.0/57

Out: 34.082+/-0.004 χ^2/NDF : 3577799.7/62

All: 34.023+/-0.003 χ^2/NDF : 6694108.0/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -75.188+/-42.938 χ^2/NDF : 29.9/34

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -90.965+/-43.271 χ^2/NDF : 24.5/37

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

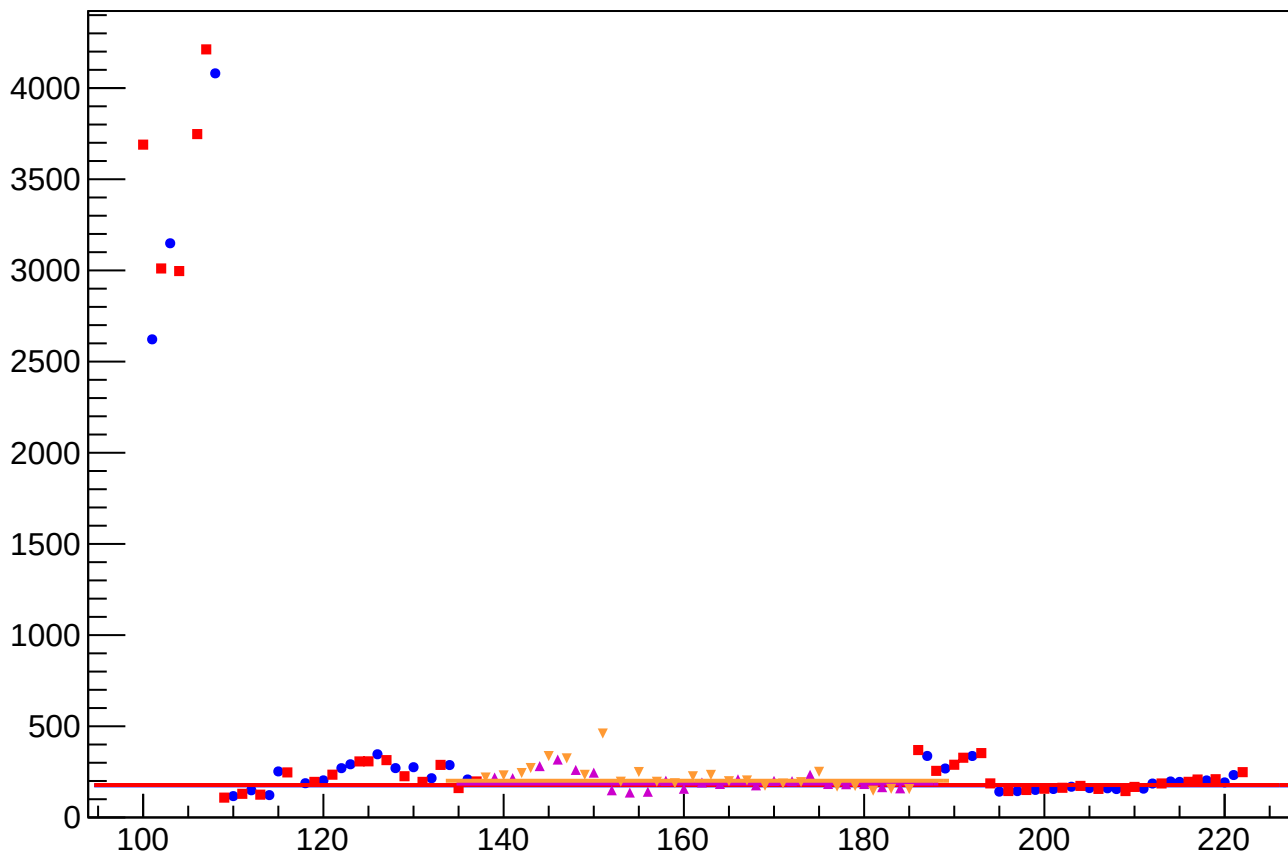
Right: -83.016+/-30.479 χ^2/NDF : 54.5/72

In: -24.639+/-31.482 χ^2/NDF : 40.3/57

Out: -54.697+/-32.322 χ^2/NDF : 34.7/62

All: -39.272+/-22.552 χ^2/NDF : 75.5/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.977 $\pm$ 0.030 χ^2 /NDF: 4666641.0/34

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 177.820 $\pm$ 0.031 χ^2 /NDF: 5640798.2/37

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

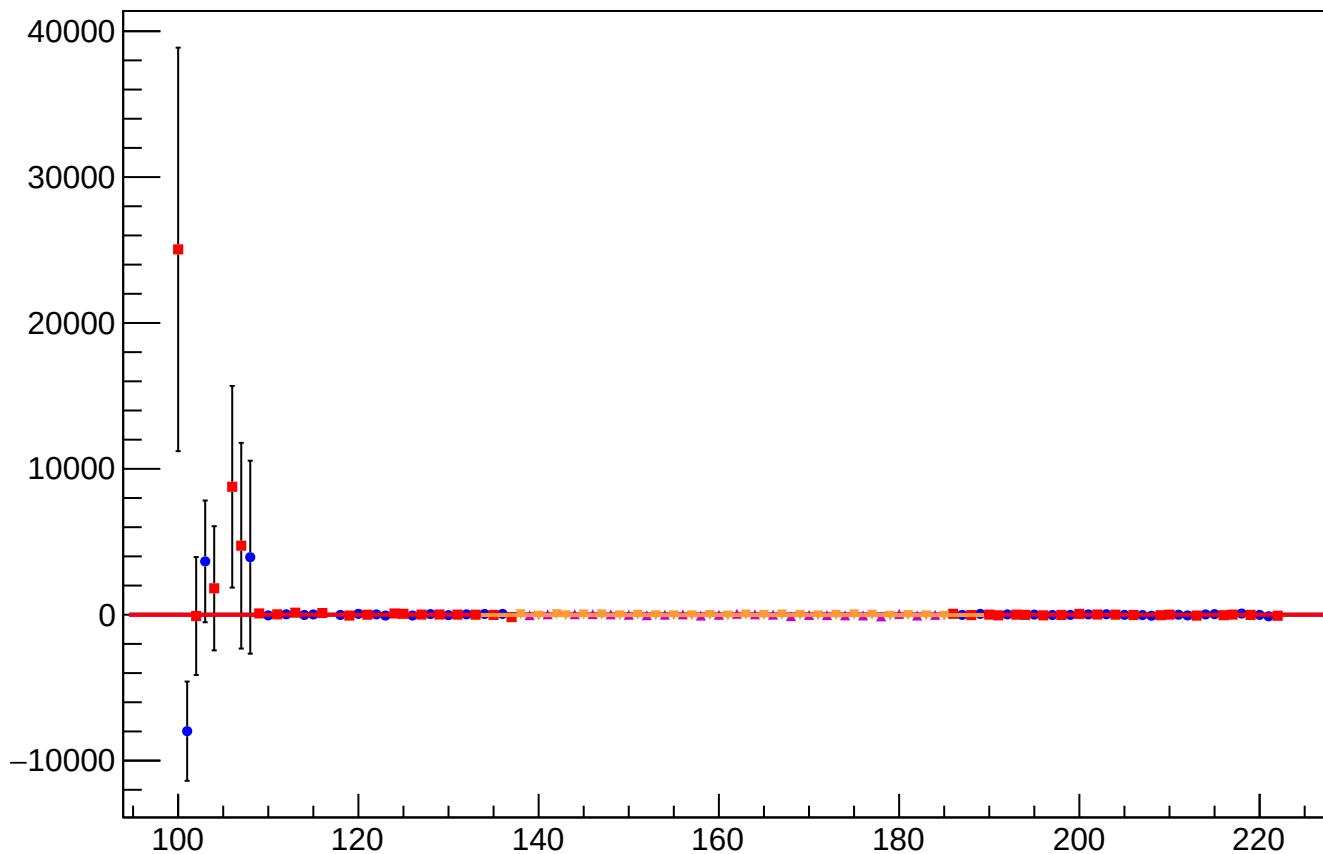
Right: 176.892 $\pm$ 0.022 χ^2 /NDF: 10309267.4/72

In: 180.544 $\pm$ 0.022 χ^2 /NDF:6097345.6/57

Out: 188.197 $\pm$ 0.023 χ^2 /NDF:7752158.4/62

All: 184.270 $\pm$ 0.016 χ^2 /NDF: 13907043.3/12

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.448+/-7.120 χ^2/NDF : 37.8/34

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: -1.909+/-7.098 χ^2/NDF : 46.0/37

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

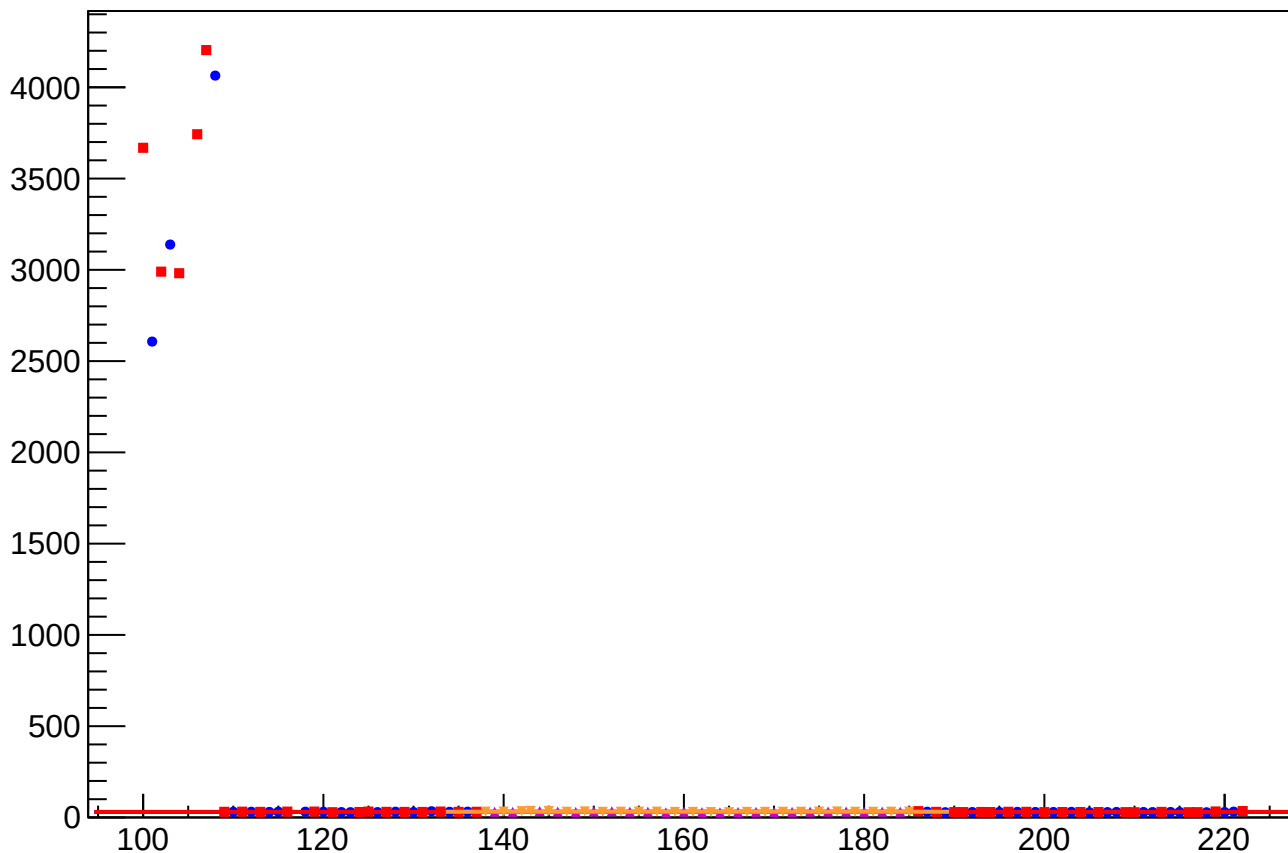
Right: 1.758+/-5.027 χ^2/NDF : 84.3/72

In: 0.085+/-5.180 χ^2/NDF :77.4/57

Out: -12.043+/-5.103 χ^2/NDF :68.9/62

All: -6.070+/-3.635 χ^2/NDF : 149.1/120

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.118 $\pm$ 0.005 χ^2 /NDF: 3047573.1/34

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.388 $\pm$ 0.005 χ^2 /NDF: 3536977.4/37

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

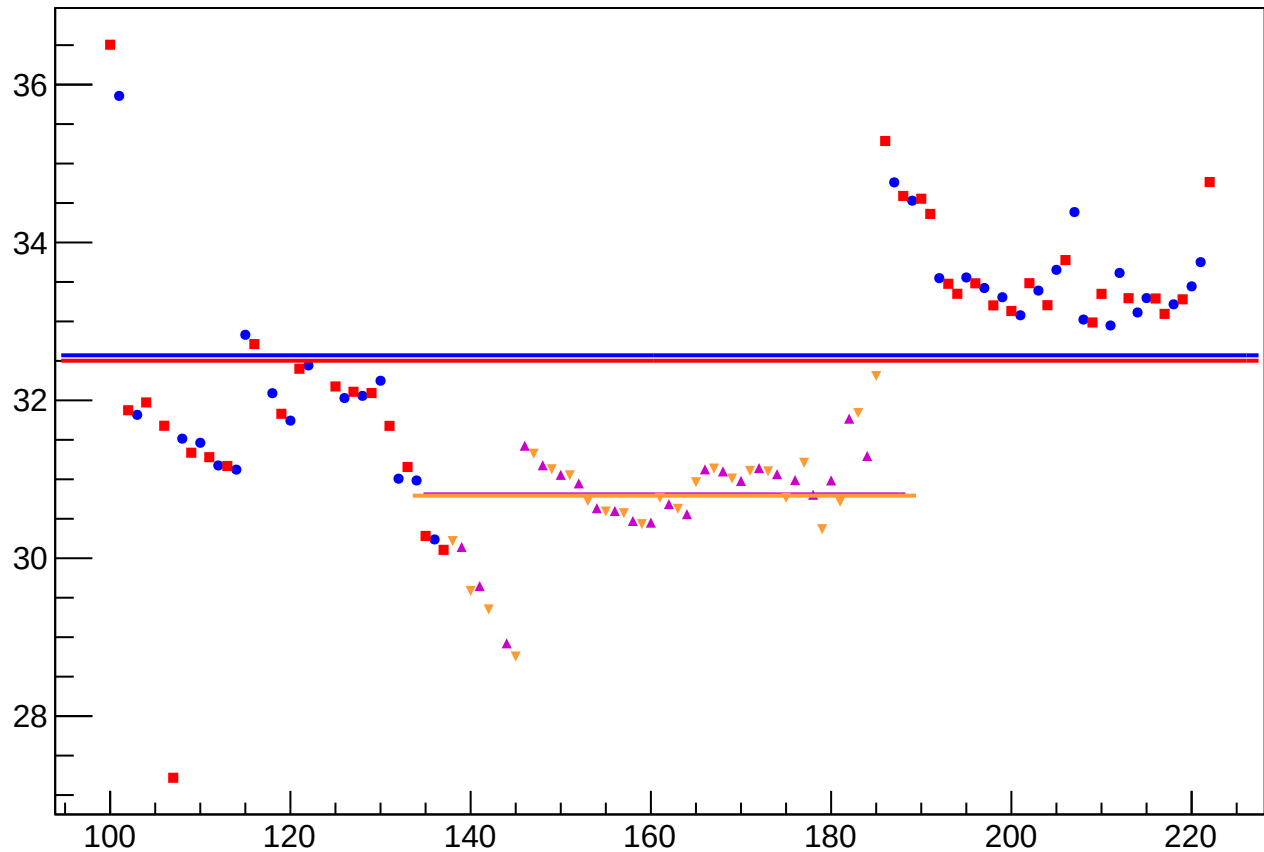
Right: 30.253 $\pm$ 0.004 χ^2 /NDF: 6585985.8/72

In: 30.761 $\pm$ 0.004 χ^2 /NDF:3170217.2/57

Out: 30.916 $\pm$ 0.004 χ^2 /NDF:3642379.4/62

All: 30.840 $\pm$ 0.003 χ^2 /NDF: 6813504.9/120

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.571+/-0.000 χ^2/NDF : 3238149643.1/33

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.502+/-0.000 χ^2/NDF : 3158679509.3/36

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

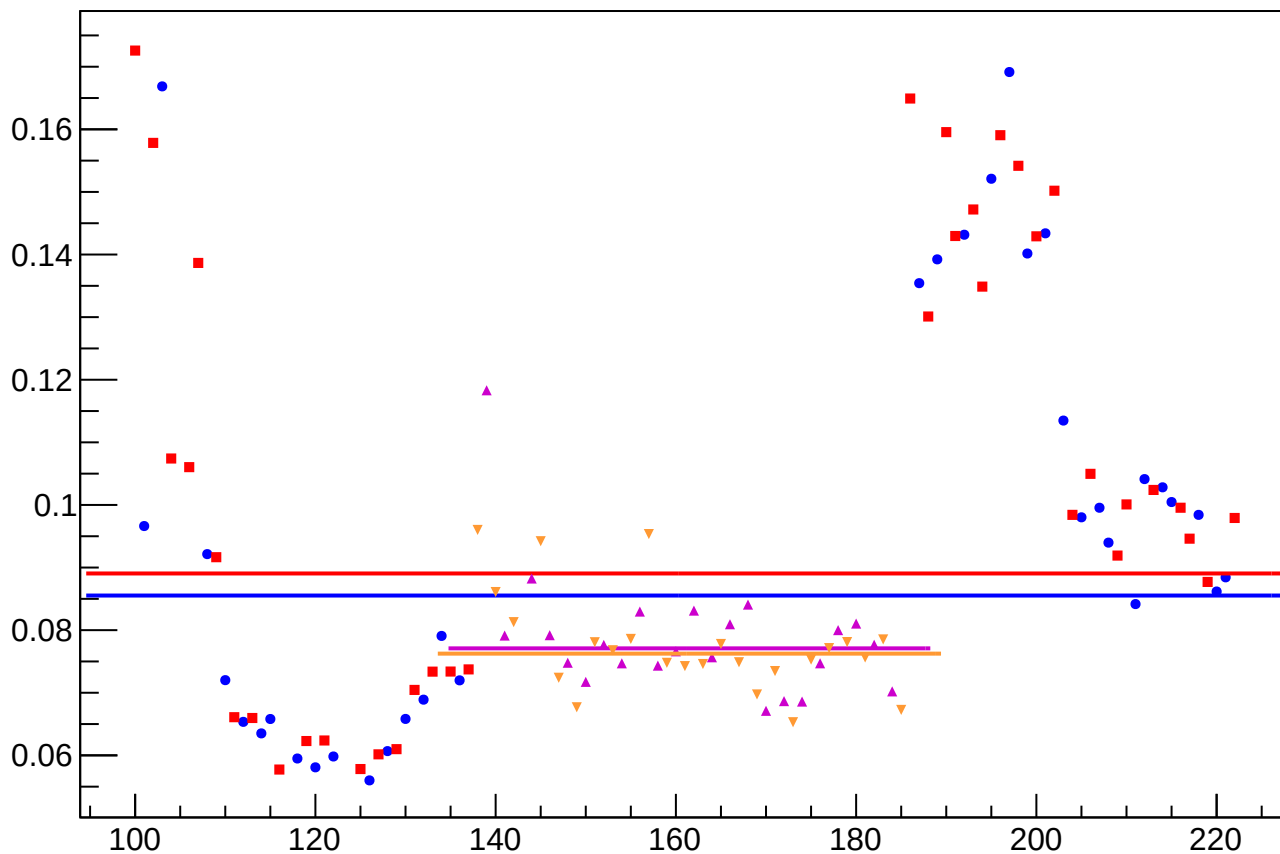
Right: 32.537+/-0.000 χ^2/NDF : 6402052220.3/70

In: 31.622+/-0.000 χ^2/NDF : 7878135286.8/56

Out: 31.546+/-0.000 χ^2/NDF : 7720791788.2/60

All: 31.584+/-0.000 χ^2/NDF : 15613244305.3

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 3305083.5/33

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3696401.7/36

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

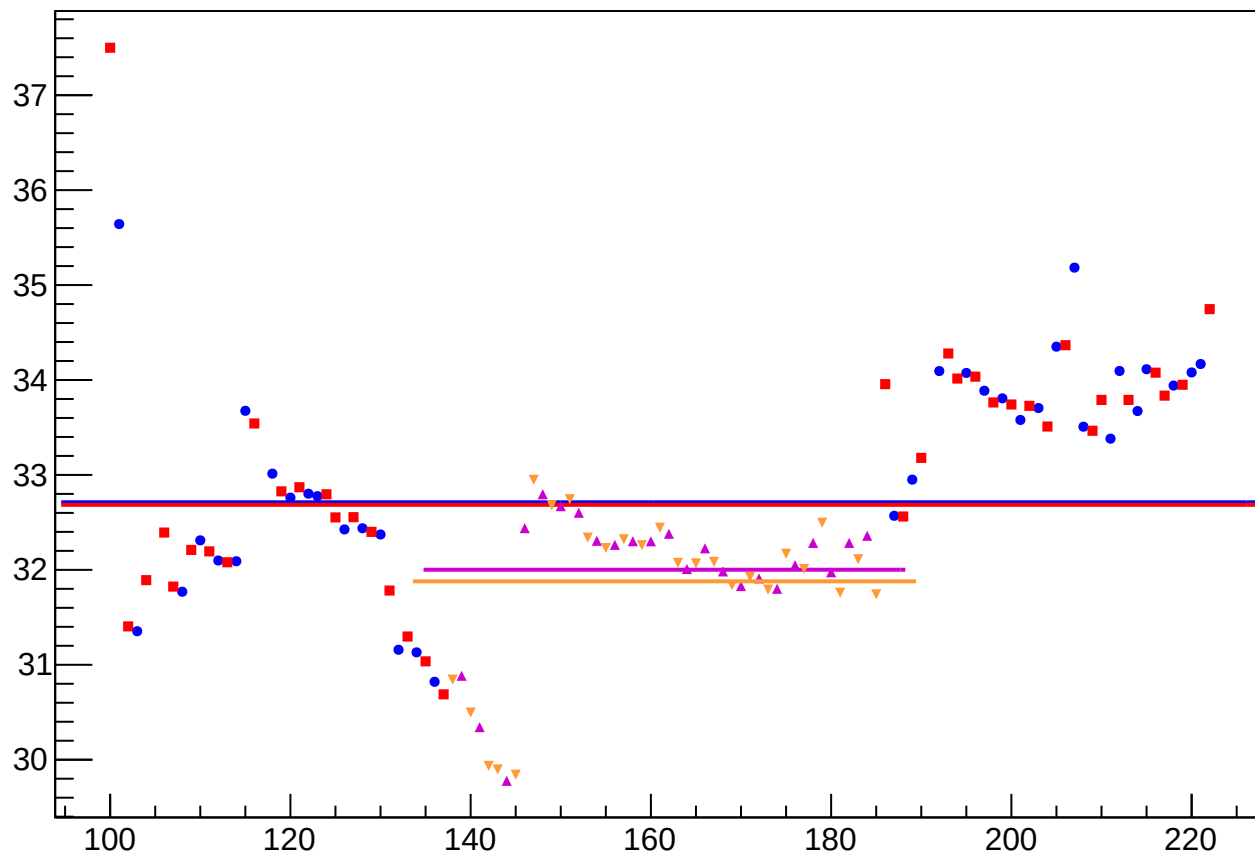
Right: 0.087+/-0.000 χ^2/NDF : 7029175.7/70

In: 0.081+/-0.000 χ^2/NDF : 3806170.2/56

Out: 0.082+/-0.000 χ^2/NDF : 4373191.0/60

All: 0.081+/-0.000 χ^2/NDF : 8183424.8/117

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.712+/-0.000 χ^2/NDF : 1787936594.2/34

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.685+/-0.000 χ^2/NDF : 1246131248.7/36

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

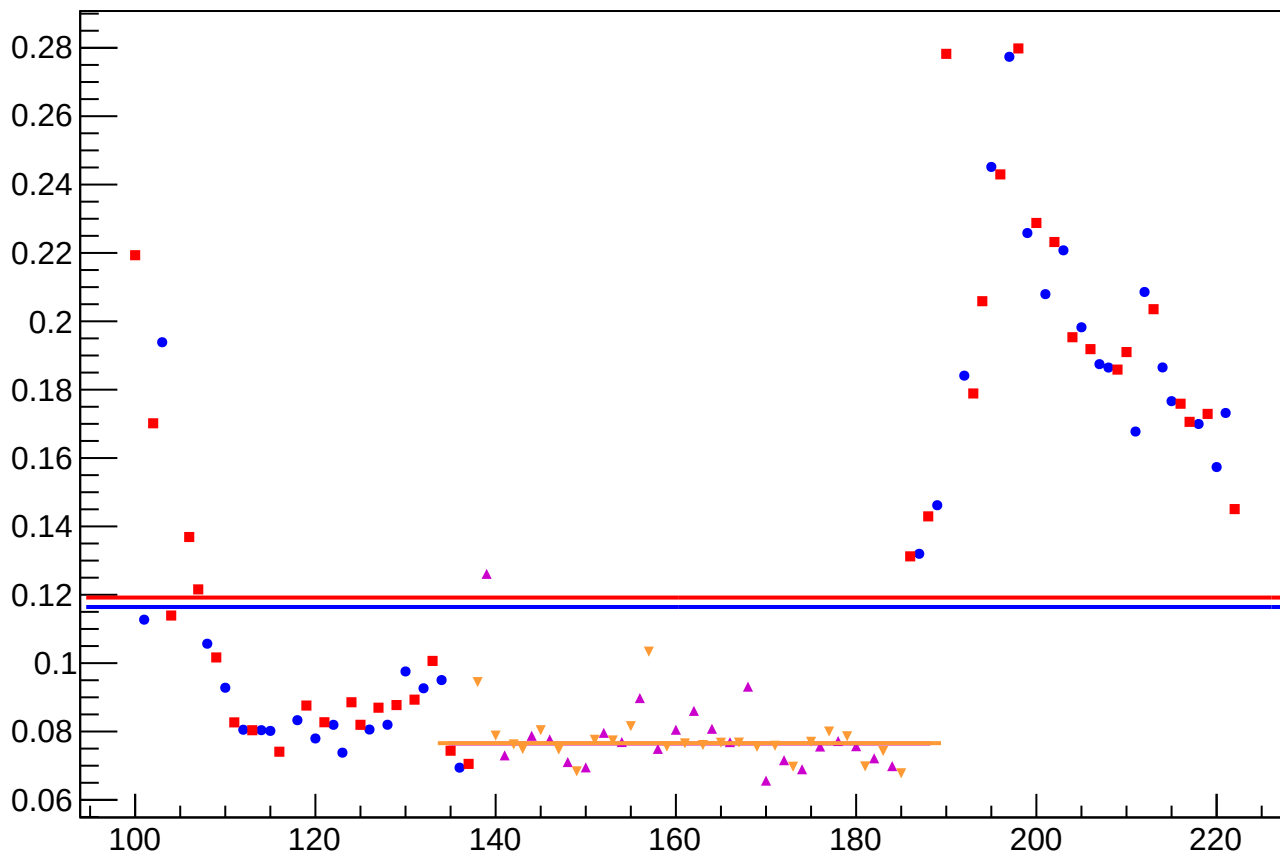
Right: 32.698+/-0.000 χ^2/NDF : 3034462786.3/71

In: 32.207+/-0.000 χ^2/NDF : 3601322781.5/57

Out: 32.106+/-0.000 χ^2/NDF : 3747553139.3/61

All: 32.156+/-0.000 χ^2/NDF : 7369279392.1/131

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.116 $\pm$ 0.000 χ^2 /NDF: 6001533.1/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.119 $\pm$ 0.000 χ^2 /NDF: 5601390.4/36

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

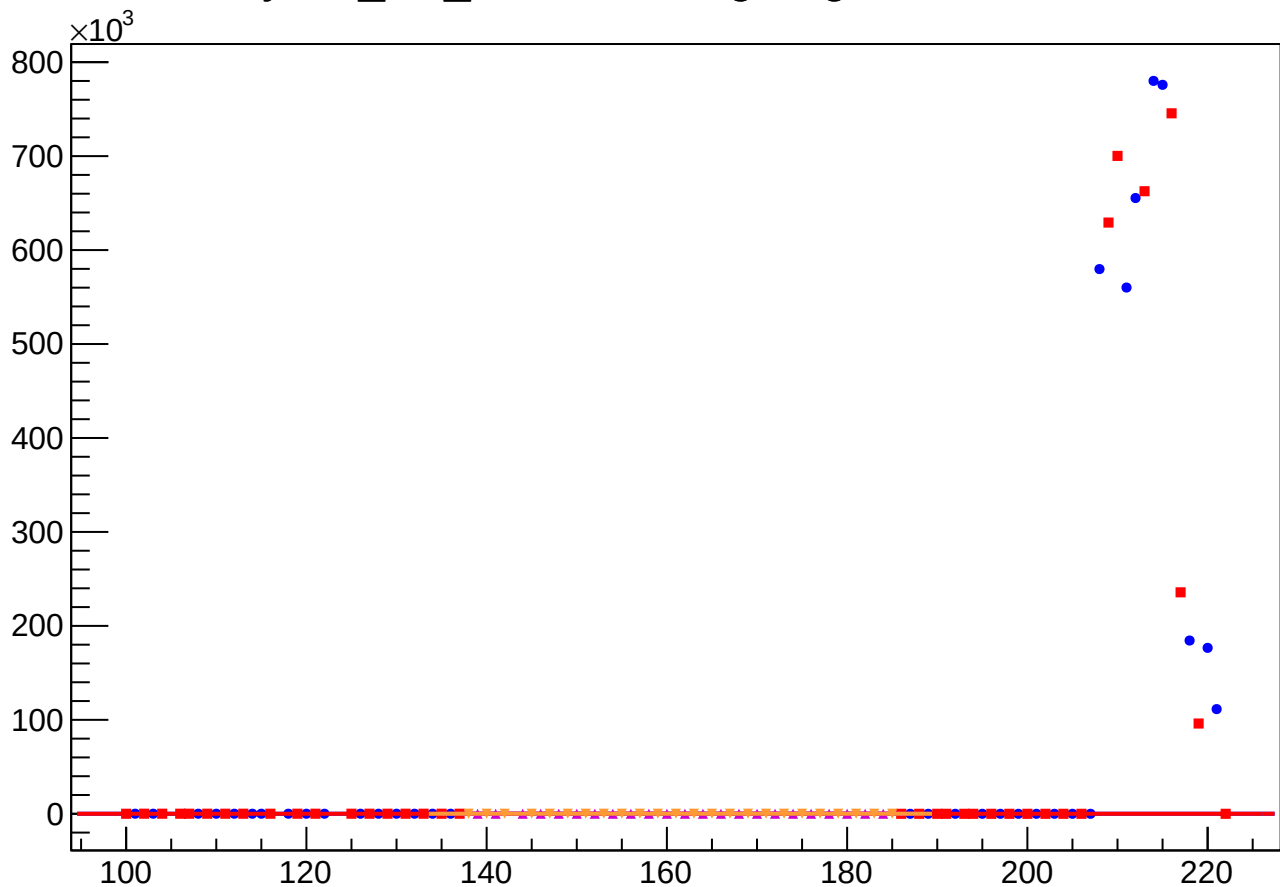
Right: 0.118 $\pm$ 0.000 χ^2 /NDF: 11611509.5/71

In: 0.088 $\pm$ 0.000 χ^2 /NDF:8975756.6/57

Out: 0.089 $\pm$ 0.000 χ^2 /NDF:8744802.9/61

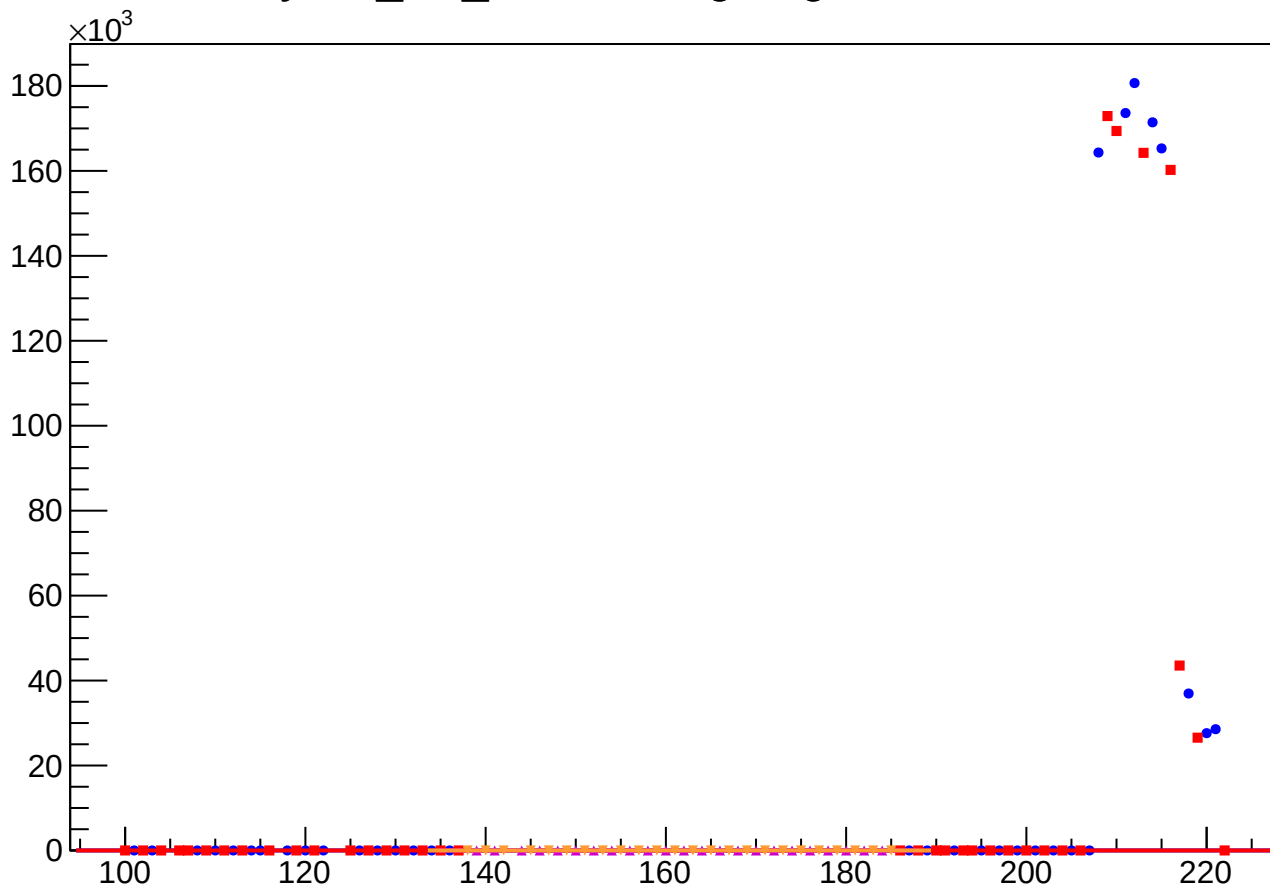
All: 0.088 $\pm$ 0.000 χ^2 /NDF: 17721448.8/119

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853604991764.3/33	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 51.733+/-0.000	χ^2/NDF : 23114767410948.8/
Right Out: 49.184+/-0.000	χ^2/NDF : 12169099390827.6/36	In: 71.422+/-0.000	χ^2/NDF : 13699441792397.0/56
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 68.170+/-0.000	χ^2/NDF : 16497196034289.9/6
		All: 69.755+/-0.000	χ^2/NDF : 3027364708234

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 10843155.5/33

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 8707839.0/36

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

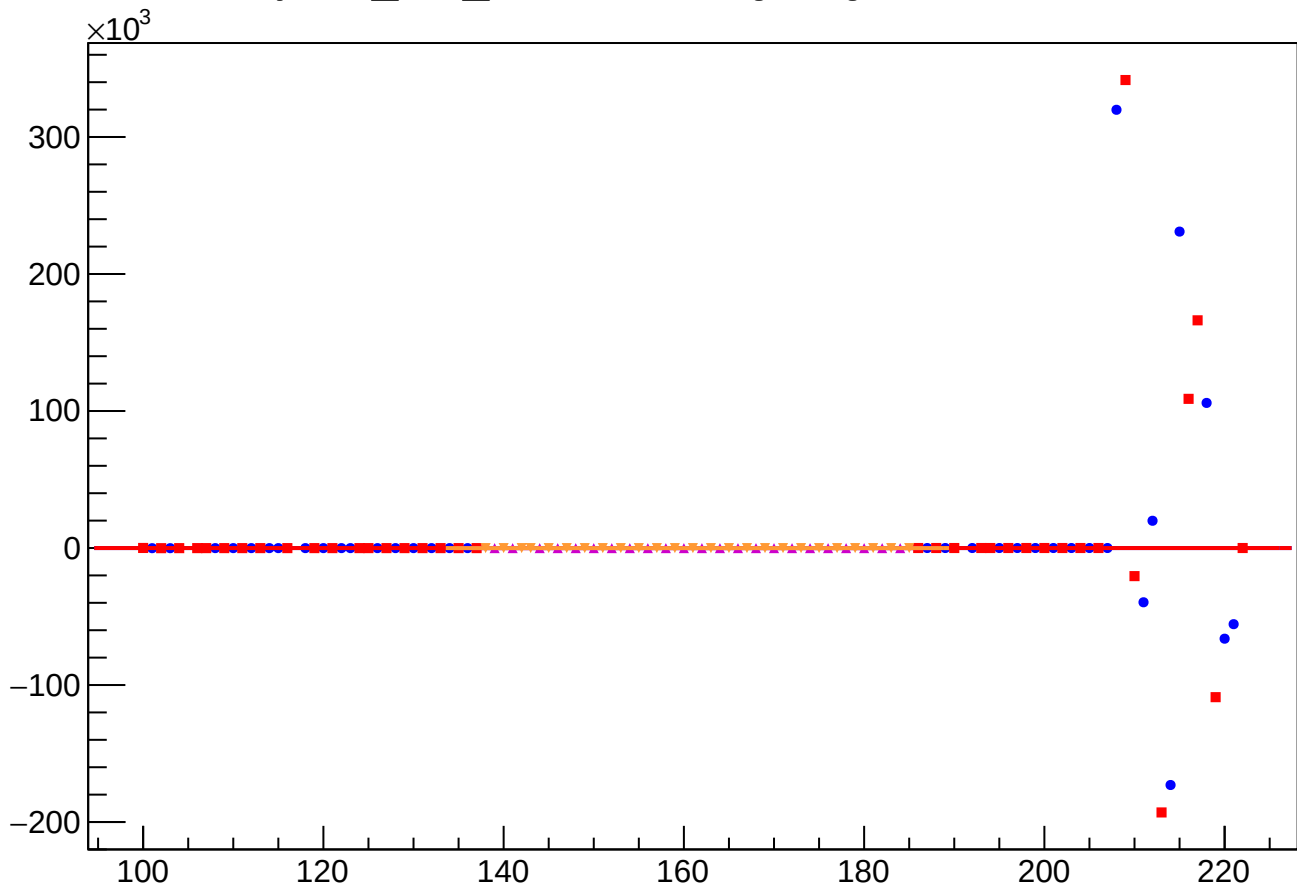
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 19551627.9/70

In: 0.046 $\pm$ 0.000 χ^2 /NDF:11112470.6/56

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:8943714.6/60

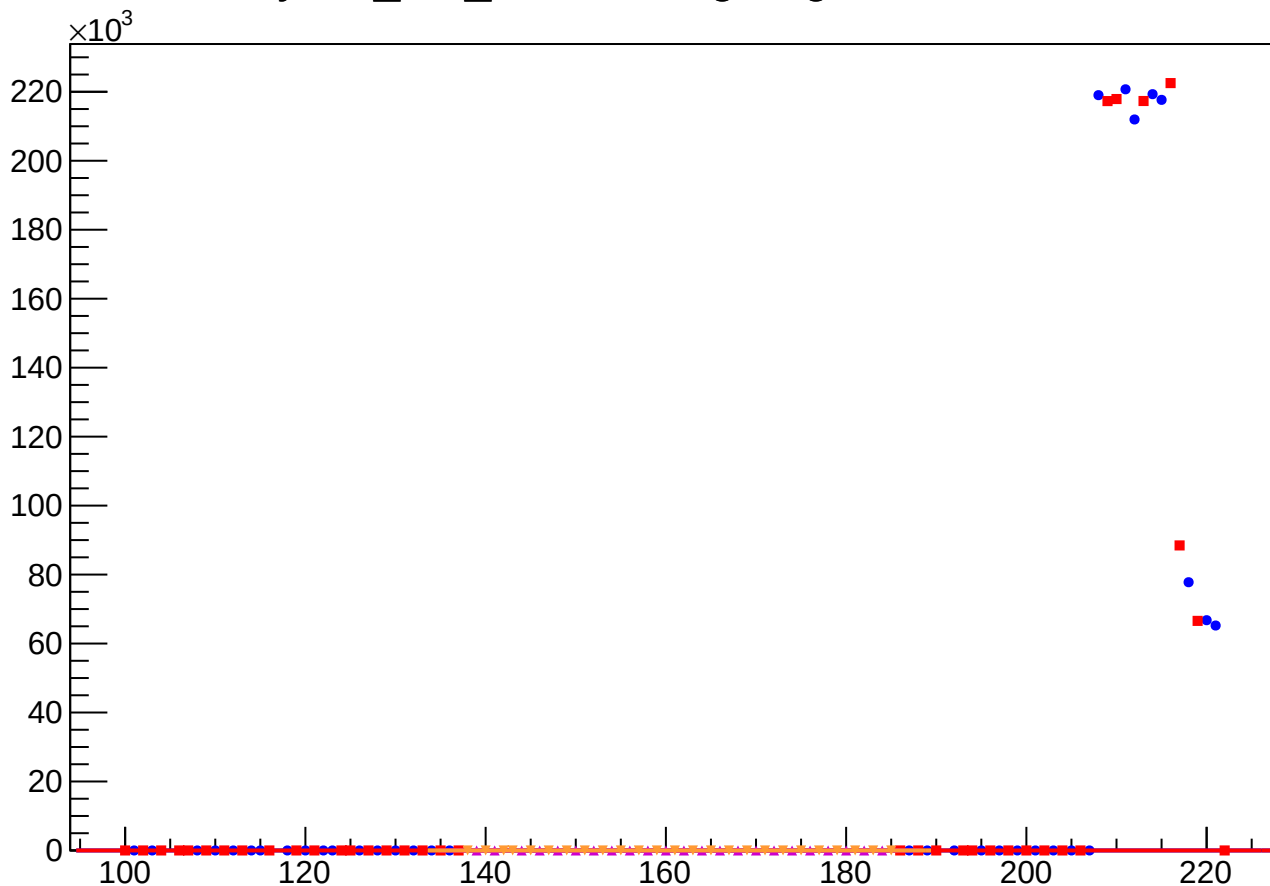
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 20058092.3/117

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479132195899.0/34	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -28.573+/-0.000	χ^2/NDF : 15046842326807.0
Right Out: -27.295+/-0.000	χ^2/NDF : 7548214123892.4/36	In: -50.762+/-0.000	χ^2/NDF : 11497073789637.0/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -48.825+/-0.000	χ^2/NDF : 12621359291053.3/
		All: -49.747+/-0.000	χ^2/NDF : 241388080138

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 10871307.2/34

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 8600173.3/36

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

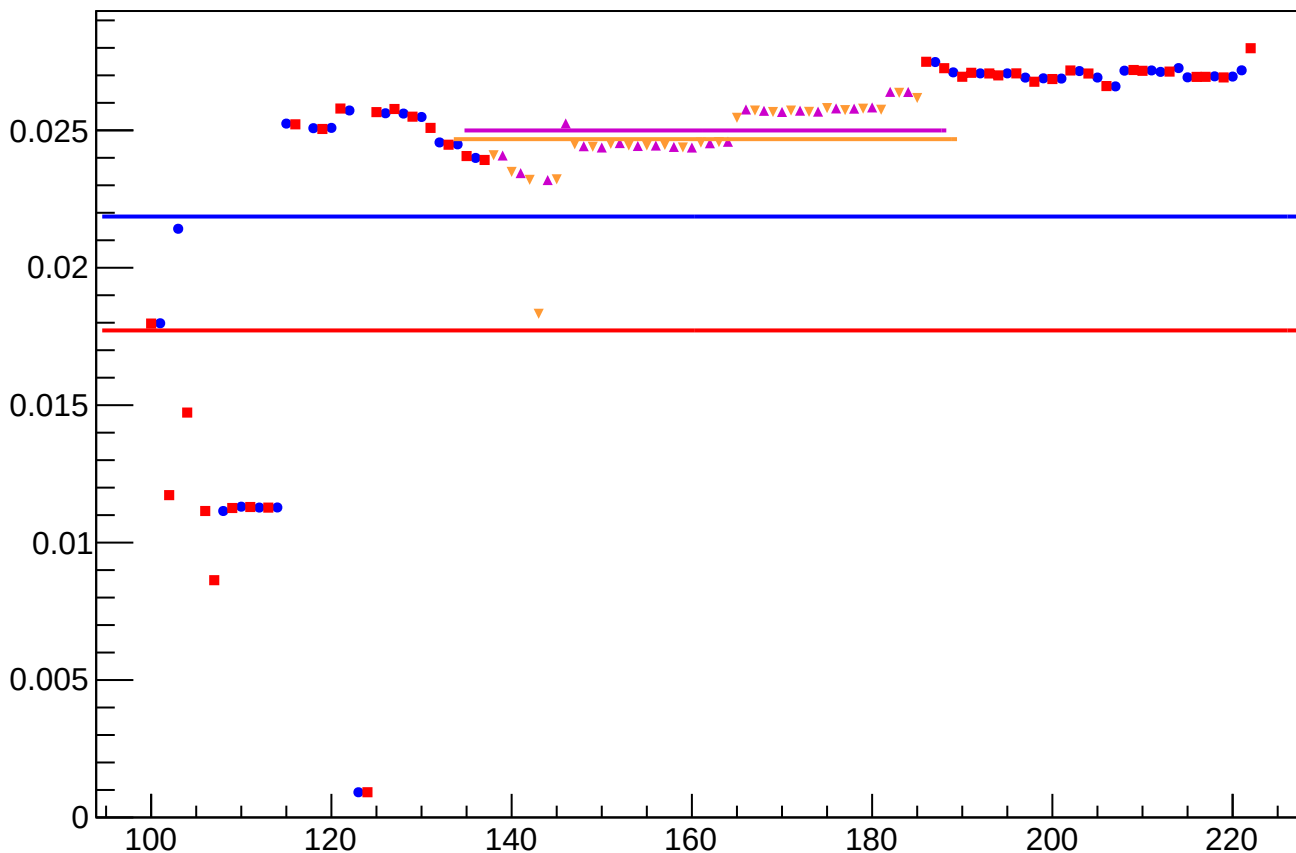
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 19471498.0/71

In: 0.054 $\pm$ 0.000 χ^2 /NDF:10985358.3/57

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:8694956.4/61

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 19681150.5/119

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000

χ^2 /NDF: 210149669719.9/34

Left: 0.025 $\pm$ 0.000

χ^2 /NDF: 12284812437.7/47

Right: 0.020 $\pm$ 0.000

χ^2 /NDF: 717539026053.4/72

Left Out: 0.025 $\pm$ 0.000

χ^2 /NDF: 9641065555.8/24

In: 0.023 $\pm$ 0.000

χ^2 /NDF: 229287194897.0/57

Right Out: 0.018 $\pm$ 0.000

χ^2 /NDF: 476300343609.7/37

Out: 0.021 $\pm$ 0.000

χ^2 /NDF: 579643761391.9/62

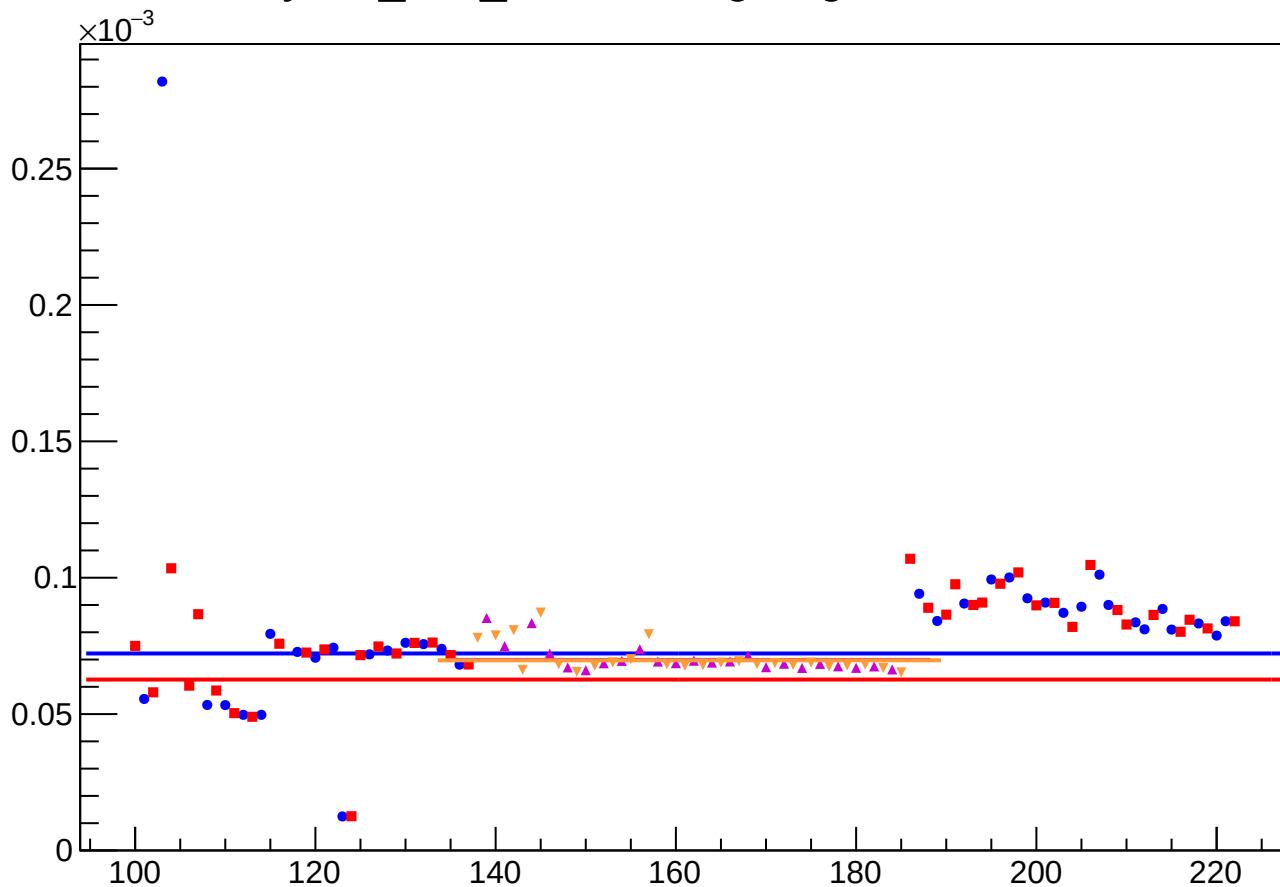
Left In: 0.025 $\pm$ 0.000

χ^2 /NDF: 2462473687.7/22

All: 0.022 $\pm$ 0.000

χ^2 /NDF: 830245851454.1

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3707711.6/34

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7508551.0/37

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

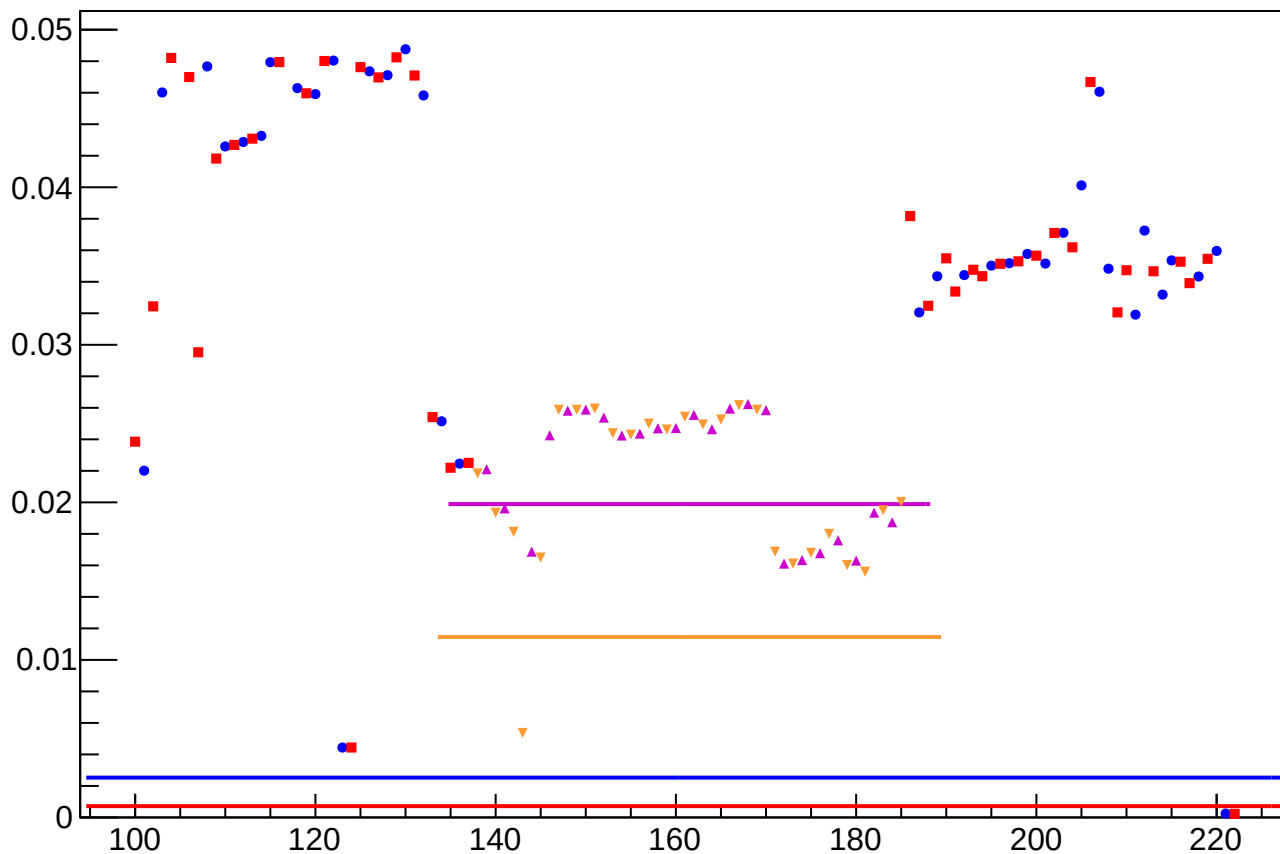
Right: 0.000+/-0.000 χ^2/NDF : 11547741.9/72

In: 0.000+/-0.000 χ^2/NDF :3856082.5/57

Out: 0.000+/-0.000 χ^2/NDF :7859361.7/62

All: 0.000+/-0.000 χ^2/NDF : 11893522.6/120

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 117623859971.3/34

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.001+/-0.000

χ^2/NDF : 243943102480.8/72

Right Out: 0.001+/-0.000

χ^2/NDF : 122466012135.6/37

In: 0.006+/-0.000

χ^2/NDF : 195105045433.3/57

Out: 0.002+/-0.000

χ^2/NDF : 237556403257.6/62

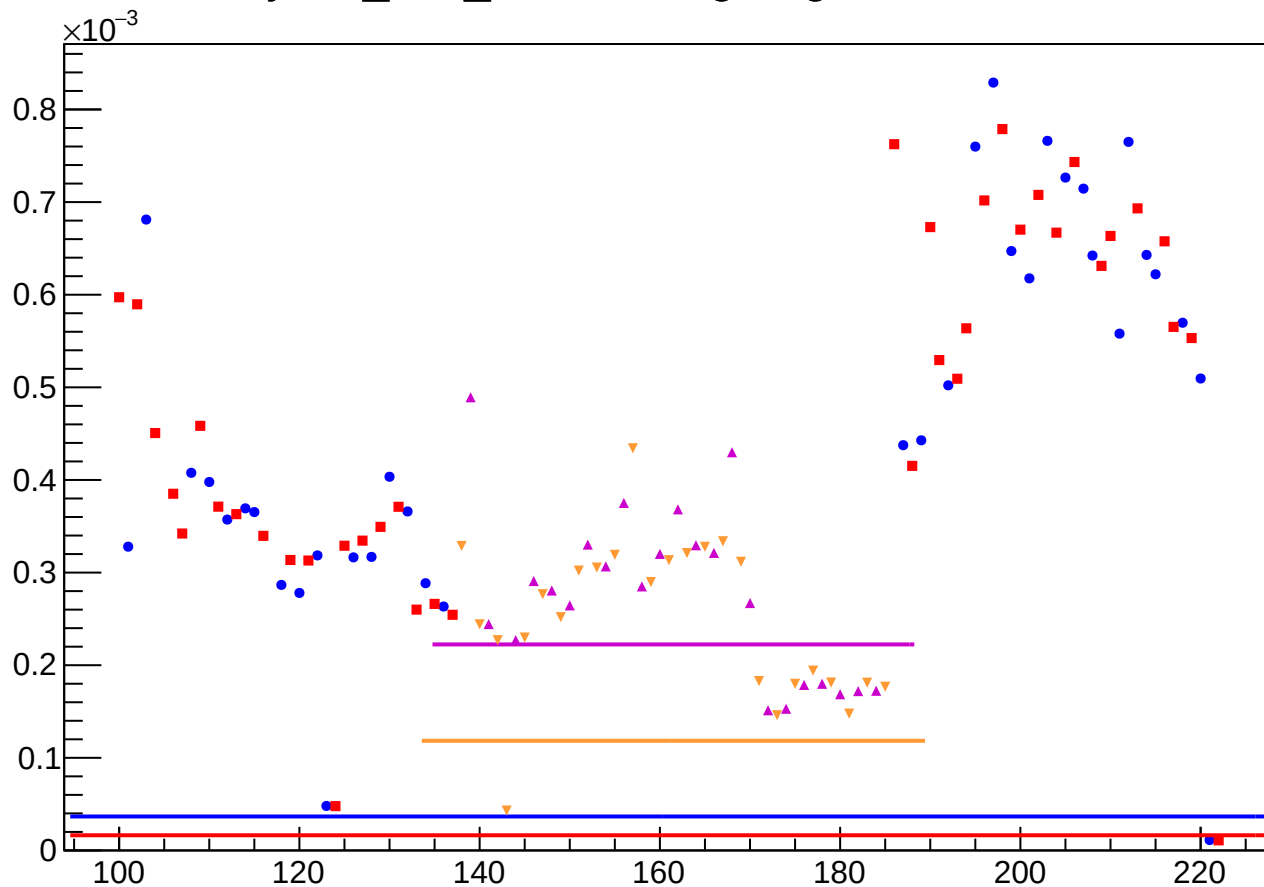
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.002+/-0.000

χ^2/NDF : 452653155918.3

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31954664.1/34

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 34067977.7/37

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

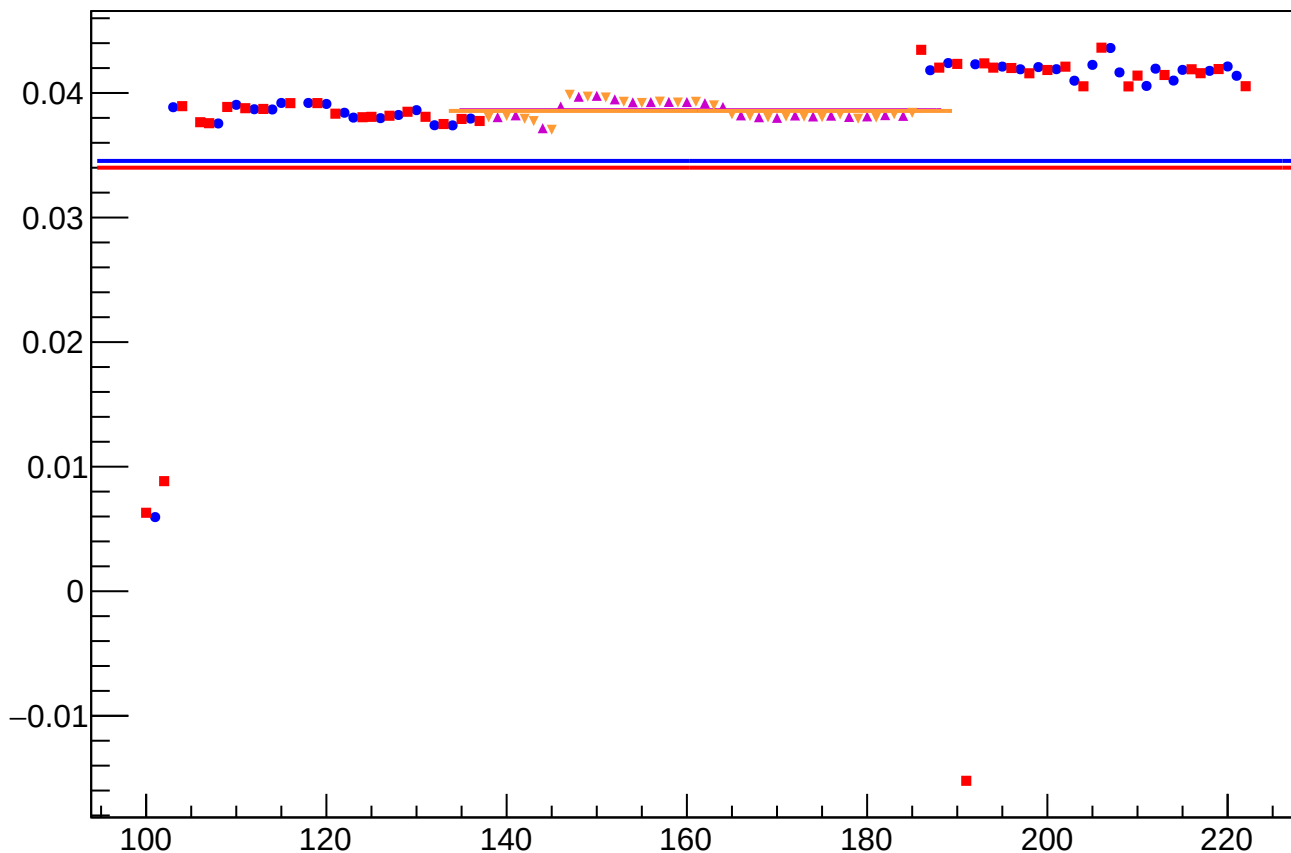
Right: 0.000+/-0.000 χ^2/NDF : 66991051.9/72

In: 0.000+/-0.000 χ^2/NDF :51953796.5/57

Out: 0.000+/-0.000 χ^2/NDF :61141535.6/62

All: 0.000+/-0.000 χ^2/NDF : 118164324.3/120

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.035+/-0.000

χ^2/NDF : 124515578794.0/34

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right Out: 0.034+/-0.000

χ^2/NDF : 189670600203.3/37

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 : 314300416179.8/72

In: 0.037+/-0.000

χ^2/NDF : 132269788163.3/57

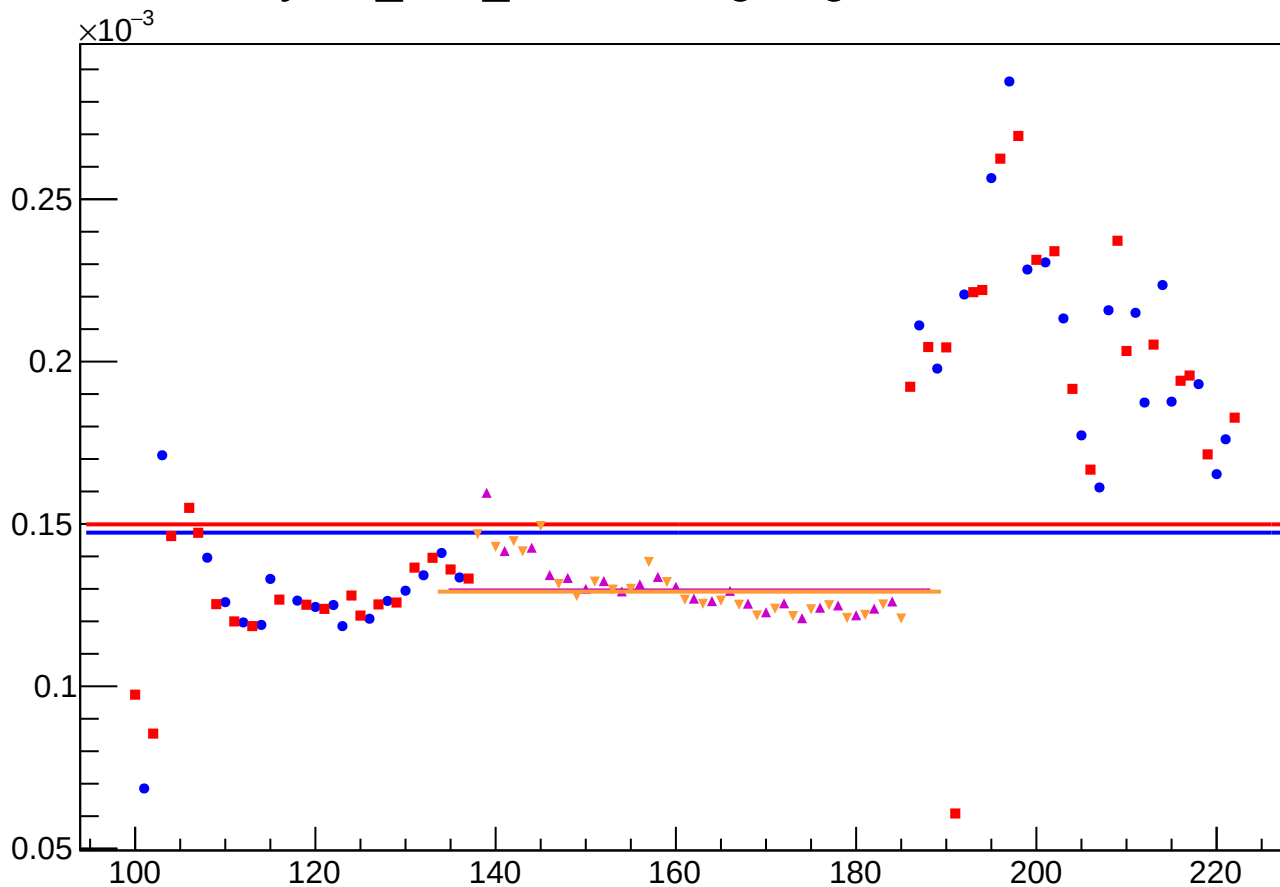
Out: 0.037+/-0.000

χ^2/NDF : 199627888996.4/62

All: 0.037+/-0.000

χ^2/NDF : 331939755827.1

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 4024142.6/34

Left Out: 0.000+/-0.000

χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000

χ^2/NDF : 3765439.8/37

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 : 7794632.1/72

In: 0.000+/-0.000

χ^2/NDF :4417072.3/57

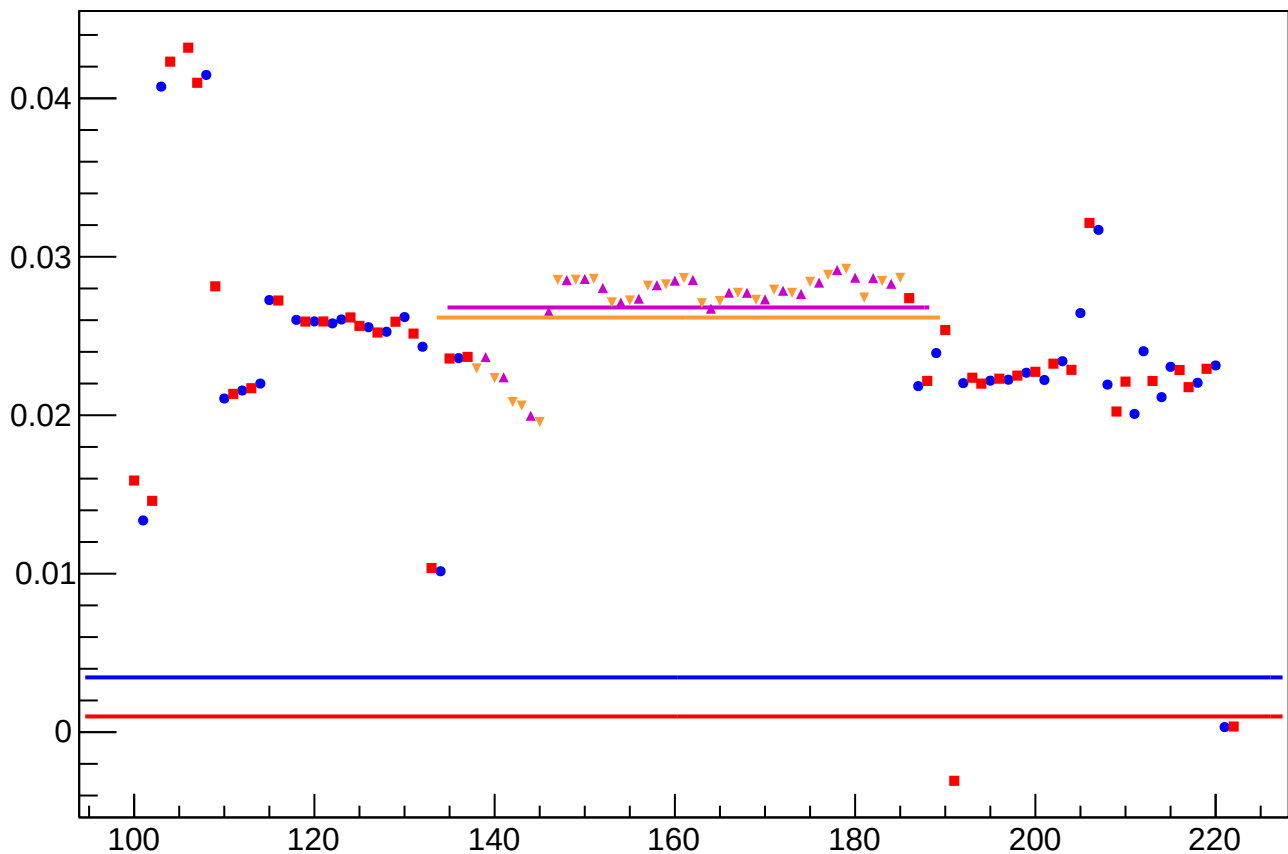
Out: 0.000+/-0.000

χ^2/NDF :4285318.3/62

All: 0.000+/-0.000

χ^2/NDF : 8703148.9/120

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 58885612763.4/34

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.001+/-0.000

χ^2/NDF : 134048136921.4/72

Right Out: 0.001+/-0.000

χ^2/NDF : 70643629006.1/37

In: 0.007+/-0.000

χ^2/NDF : 143831120097.8/57

Out: 0.002+/-0.000

χ^2/NDF : 194508989162.9/62

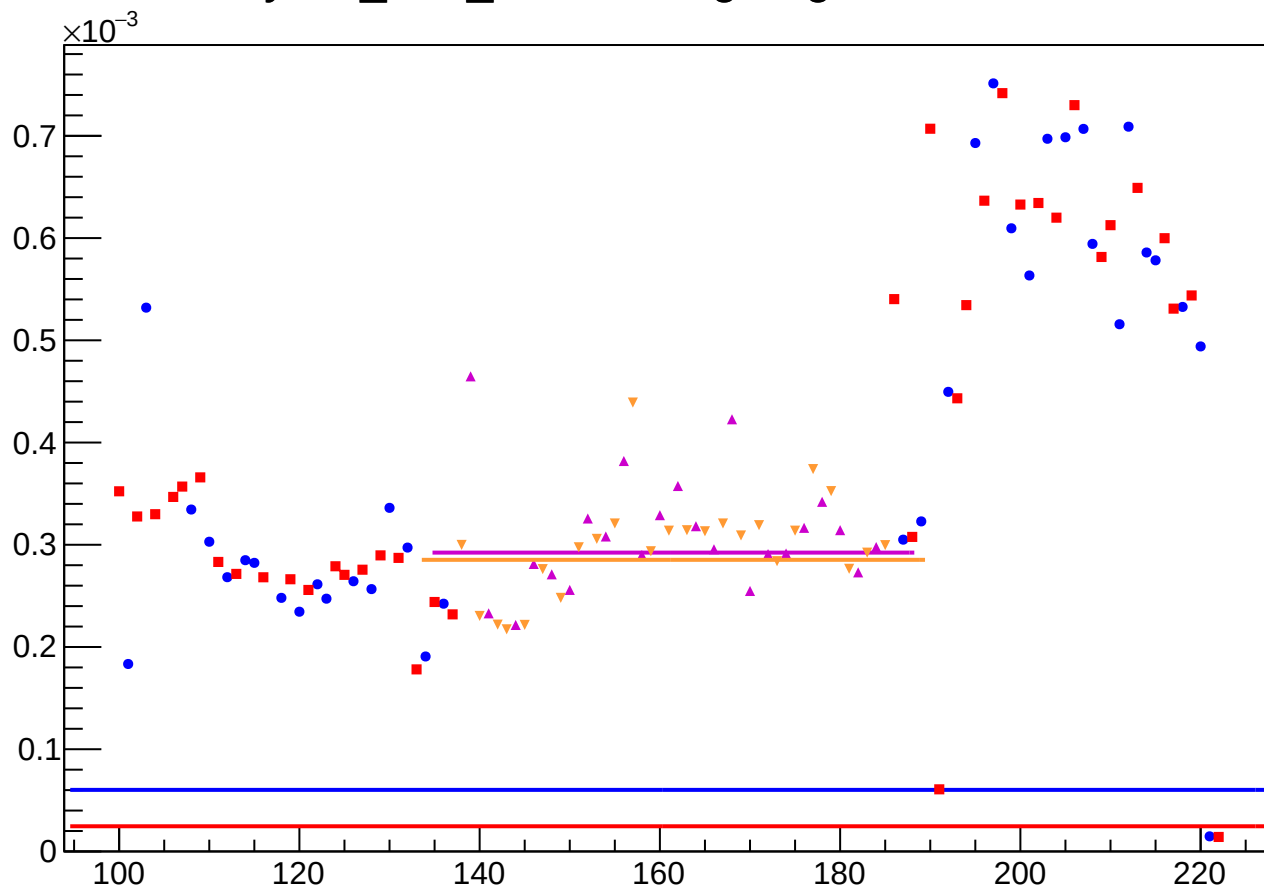
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.003+/-0.000

χ^2/NDF : 362644326285.3

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29163924.4/34

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32520947.2/37

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

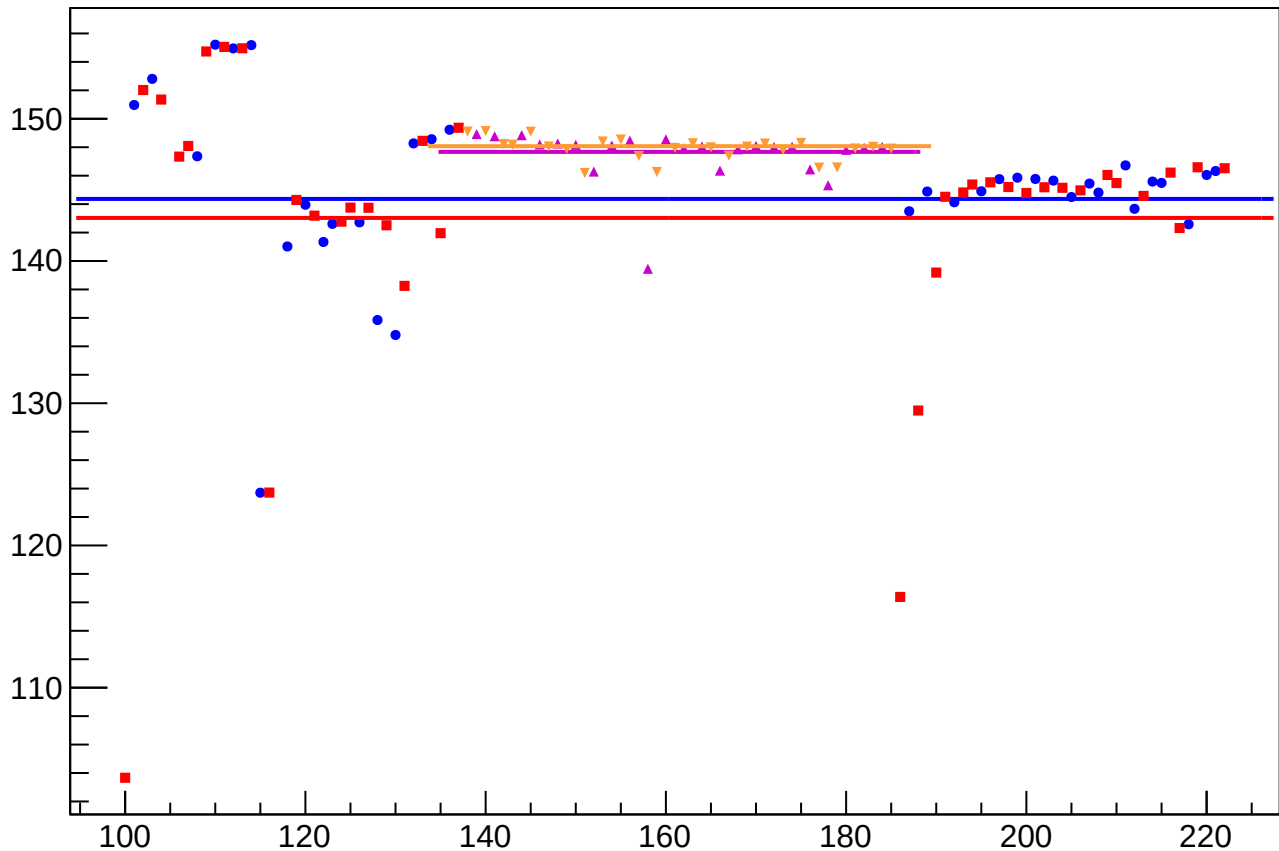
Right: 0.000+/-0.000 χ^2/NDF : 63570810.5/72

In: 0.000+/-0.000 χ^2/NDF :46588985.9/57

Out: 0.000+/-0.000 χ^2/NDF :59446196.2/62

All: 0.000+/-0.000 χ^2/NDF : 112982694.2/120

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.365 $\pm$ 0.000 χ^2 /NDF: 3524281773.5/34

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 143.030 $\pm$ 0.000 χ^2 /NDF: 7511681852.1/37

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

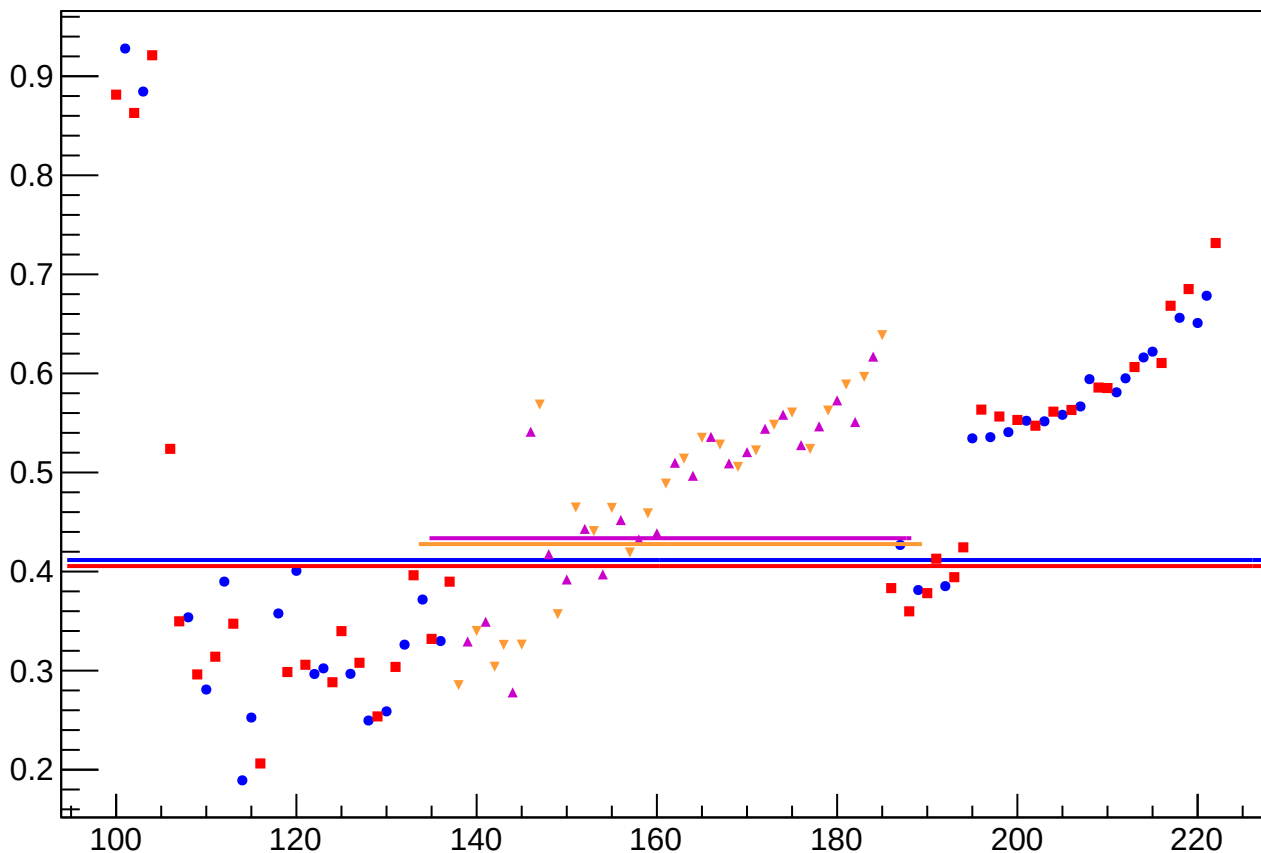
Right: 143.669 $\pm$ 0.000 χ^2 /NDF: 11126239785.0/72

In: 145.922 $\pm$ 0.000 χ^2 /NDF: 4369047528.6/57

Out: 145.387 $\pm$ 0.000 χ^2 /NDF: 8834058296.8/62

All: 145.644 $\pm$ 0.000 χ^2 /NDF: 13230382138.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.412 $\pm$ 0.000 χ^2 /NDF: 4220003.7/34

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.406 $\pm$ 0.000 χ^2 /NDF: 4128367.2/37

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

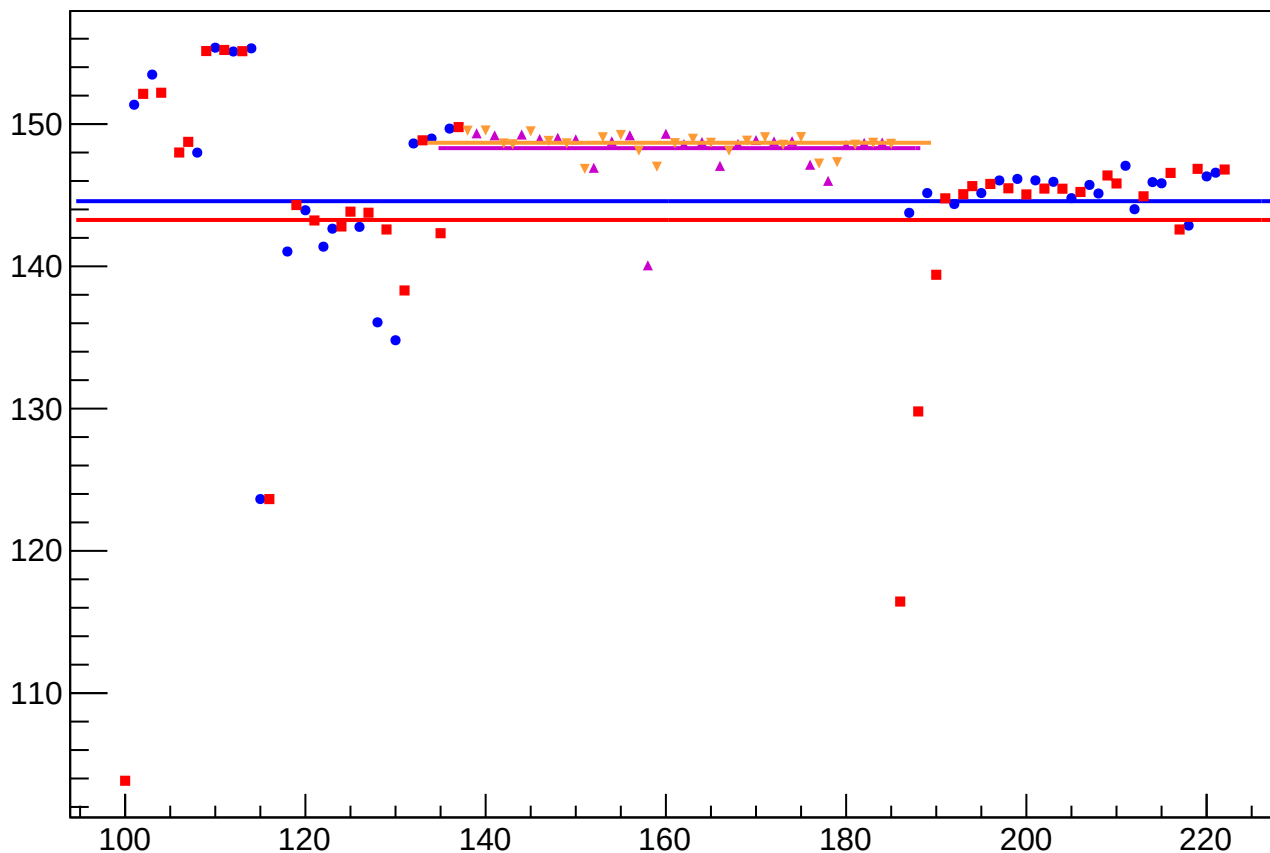
Right: 0.408 $\pm$ 0.000 χ^2 /NDF: 8352137.4/72

In: 0.422 $\pm$ 0.000 χ^2 /NDF:5760715.0/57

Out: 0.416 $\pm$ 0.000 χ^2 /NDF:6073821.7/62

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 11841641.1/120

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.581 $\pm$ 0.000 χ^2 /NDF: 3575699566.8/34

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.260 $\pm$ 0.000 χ^2 /NDF: 7464680939.1/37

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

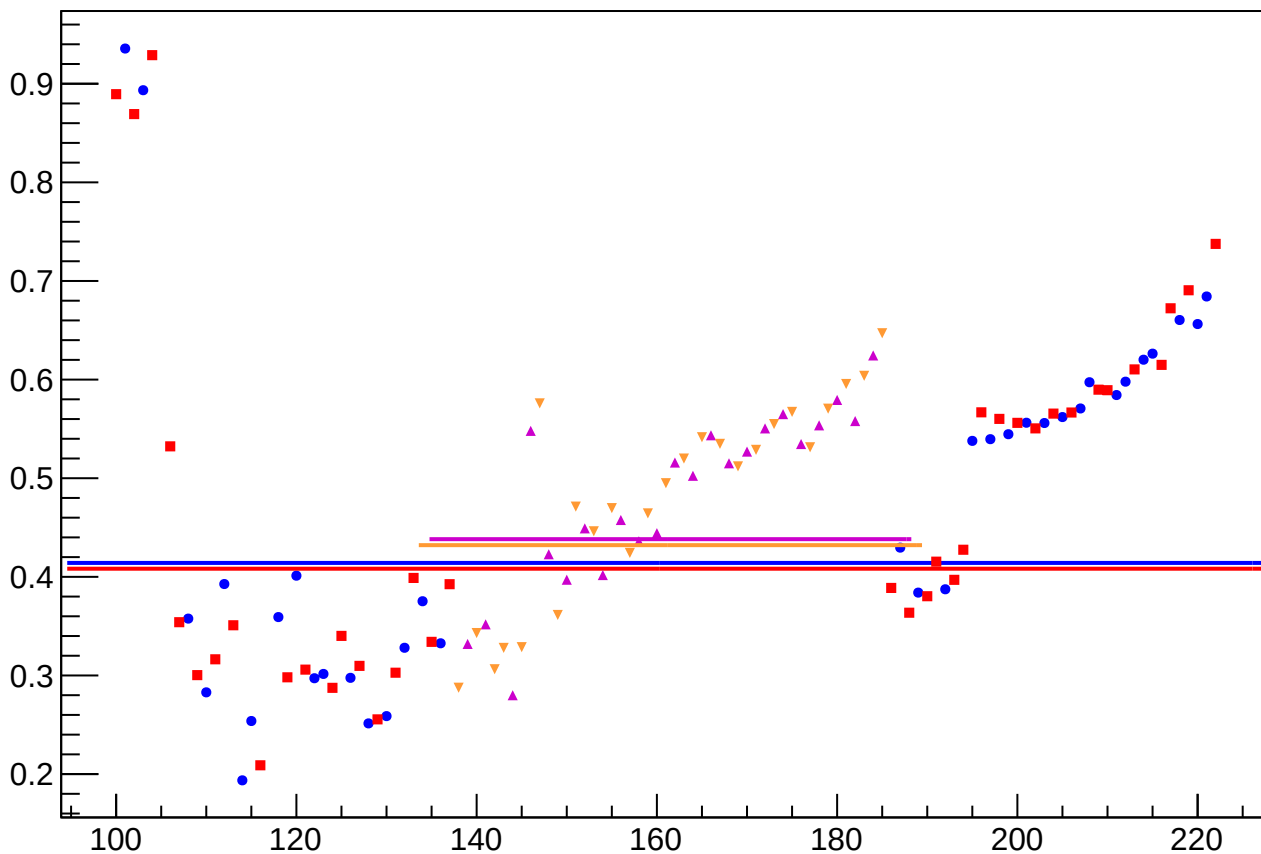
Right: 143.893 $\pm$ 0.000 χ^2 /NDF: 11127489787.2/72

In: 146.328 $\pm$ 0.000 χ^2 /NDF: 4533524959.9/57

Out: 145.786 $\pm$ 0.000 χ^2 /NDF: 8946096276.9/62

All: 146.046 $\pm$ 0.000 χ^2 /NDF: 13507098843.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.414 $\pm$ 0.000 χ^2 /NDF: 4231521.8/34

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.408 $\pm$ 0.000 χ^2 /NDF: 4134174.0/37

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

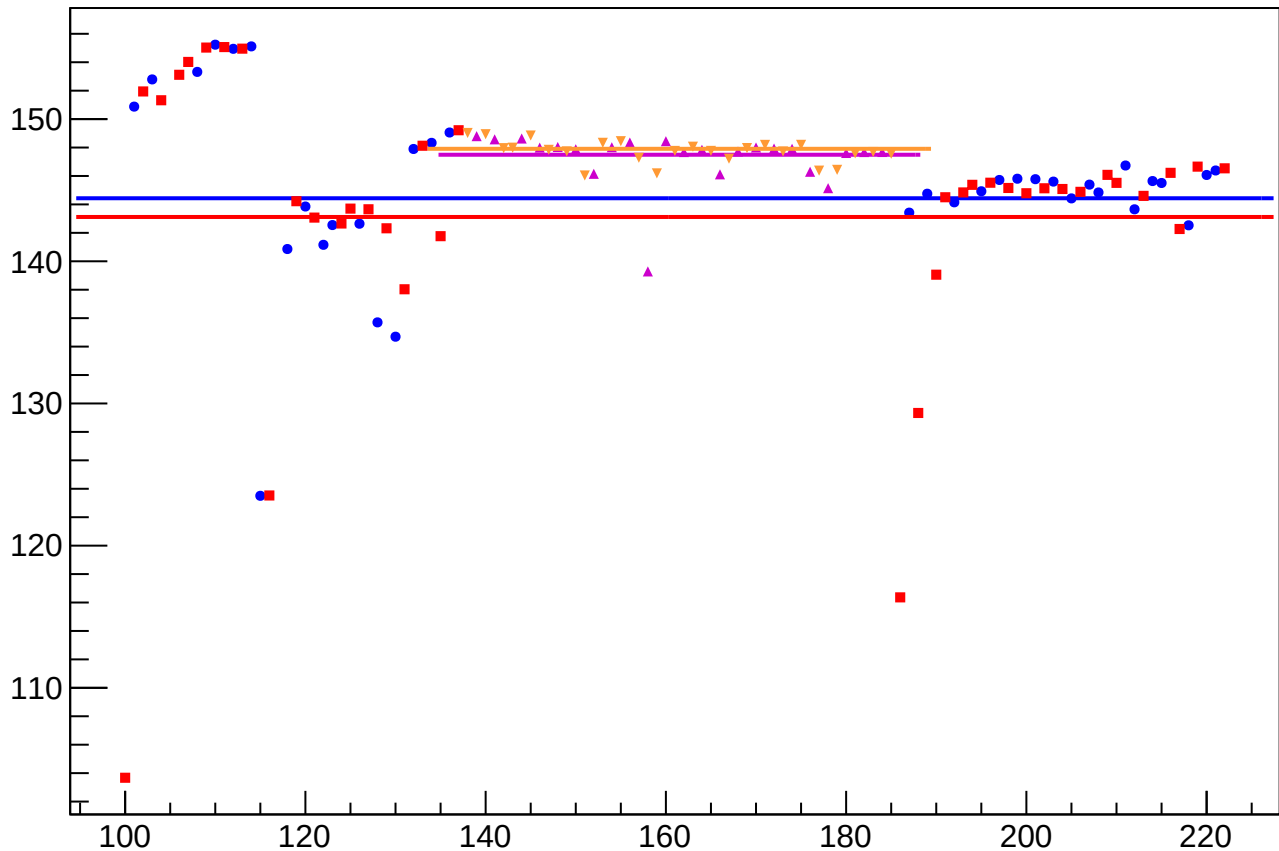
Right: 0.411 $\pm$ 0.000 χ^2 /NDF: 8369130.8/72

In: 0.425 $\pm$ 0.000 χ^2 /NDF:5805603.5/57

Out: 0.419 $\pm$ 0.000 χ^2 /NDF:6118551.6/62

All: 0.422 $\pm$ 0.000 χ^2 /NDF: 11931001.4/120

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.433+/-0.000 χ^2/NDF : 3729859203.9/34

Left Out: 147.911+/-0.000 χ^2/NDF : 64412407.9/24

Right Out: 143.117+/-0.000 χ^2/NDF : 7883651192.7/37

Left In: 147.493+/-0.000 χ^2/NDF : 343978473.2/22

Left: 147.709+/-0.000 χ^2/NDF : 416149781.4/47

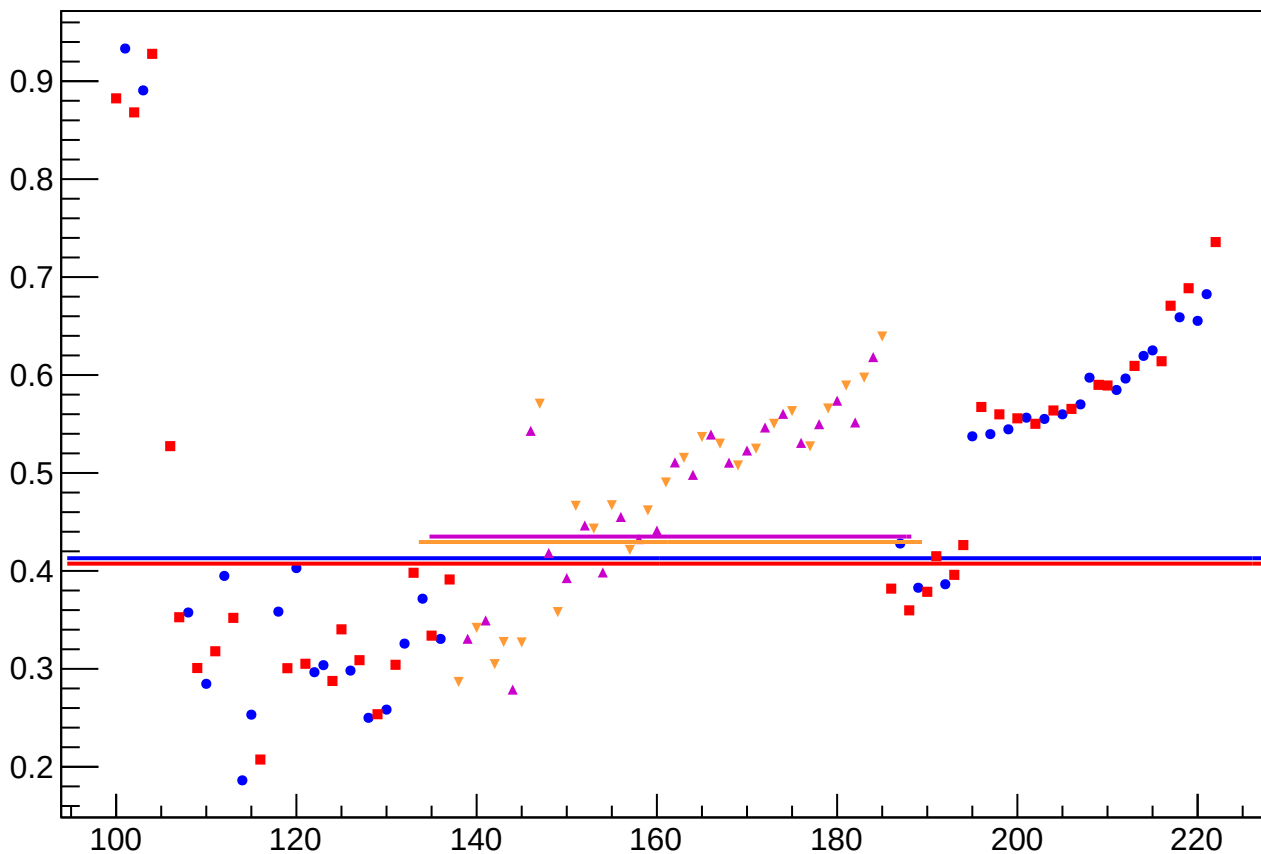
Right: 143.748+/-0.000 χ^2/NDF : 11700447809.4/72

In: 145.876+/-0.000 χ^2/NDF : 4499053980.6/57

Out: 145.359+/-0.000 χ^2/NDF : 9073820199.0/62

All: 145.608+/-0.000 χ^2/NDF : 13598087329.0/112

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.413+/-0.000 χ^2/NDF : 4263748.1/34

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.407+/-0.000 χ^2/NDF : 4136387.7/37

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

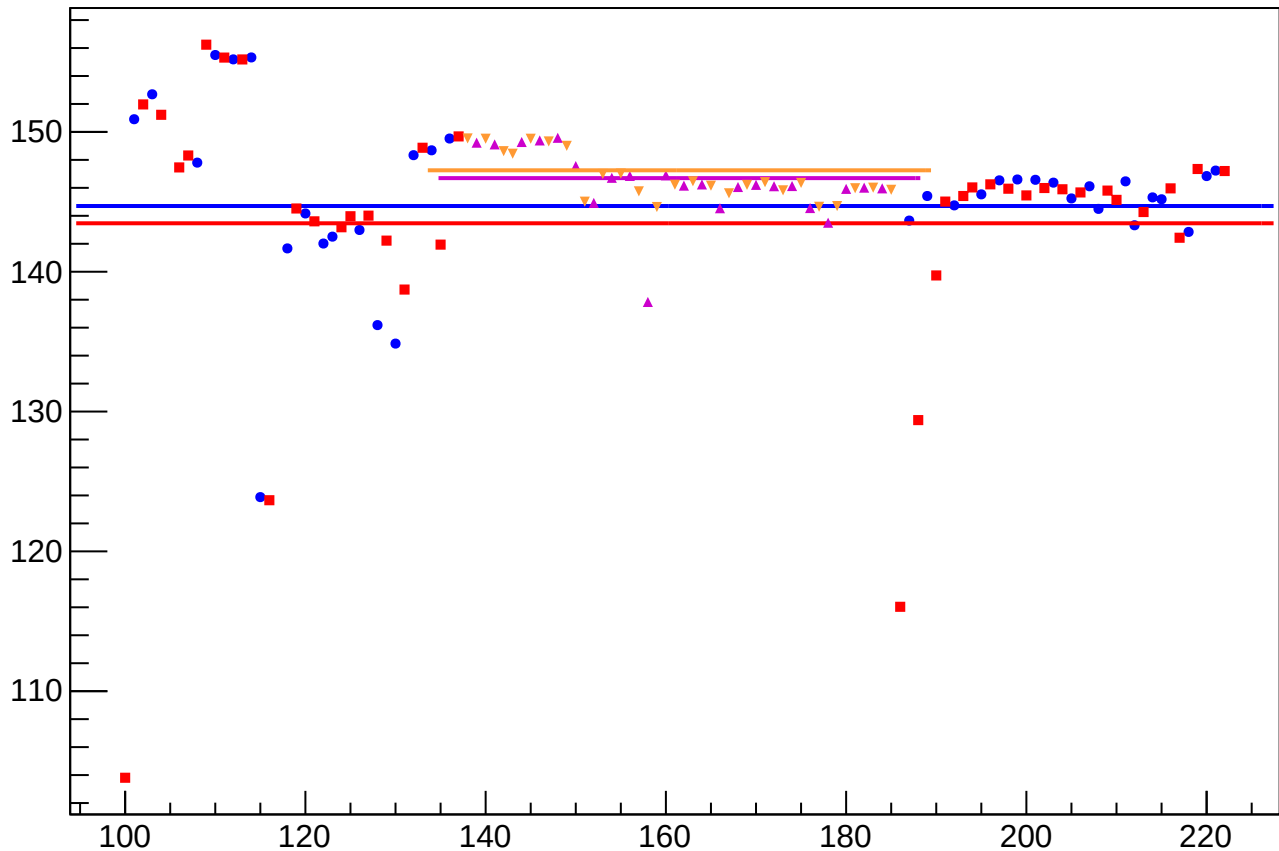
Right: 0.410+/-0.000 χ^2/NDF : 8403201.6/72

In: 0.423+/-0.000 χ^2/NDF :5810785.6/57

Out: 0.418+/-0.000 χ^2/NDF :6079874.9/62

All: 0.420+/-0.000 χ^2/NDF : 11896615.0/120

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.701 $\pm$ 0.000 χ^2 /NDF: 3253689932.6/34

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.466 $\pm$ 0.000 χ^2 /NDF: 7201274114.3/37

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

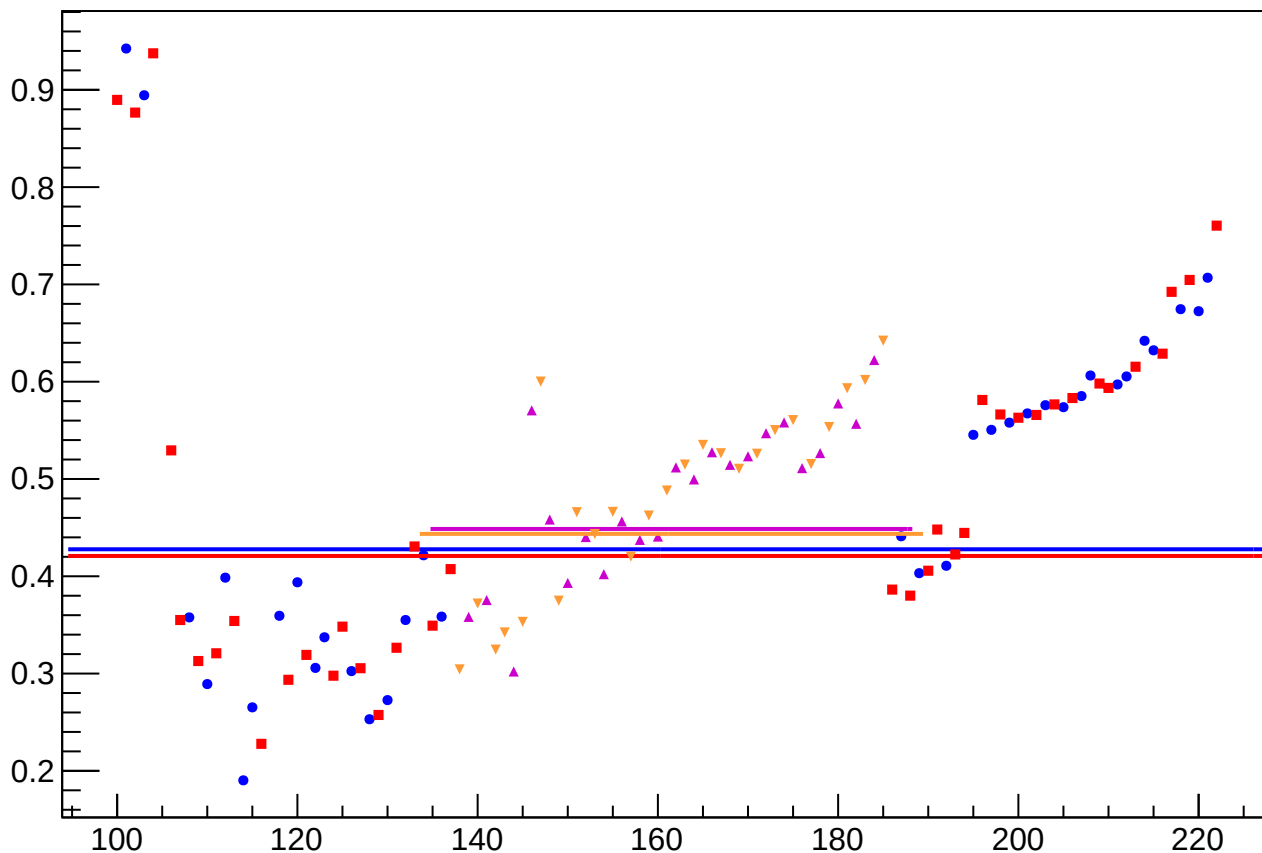
Right: 144.056 $\pm$ 0.000 χ^2 /NDF: 10526524931.1/72

In: 145.650 $\pm$ 0.000 χ^2 /NDF: 3981711932.0/57

Out: 145.248 $\pm$ 0.000 χ^2 /NDF: 8125728857.9/62

All: 145.441 $\pm$ 0.000 χ^2 /NDF: 12121857046.0/137

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.428+/-0.000 χ^2/NDF : 4124577.3/34

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.421+/-0.000 χ^2/NDF : 4017957.3/37

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

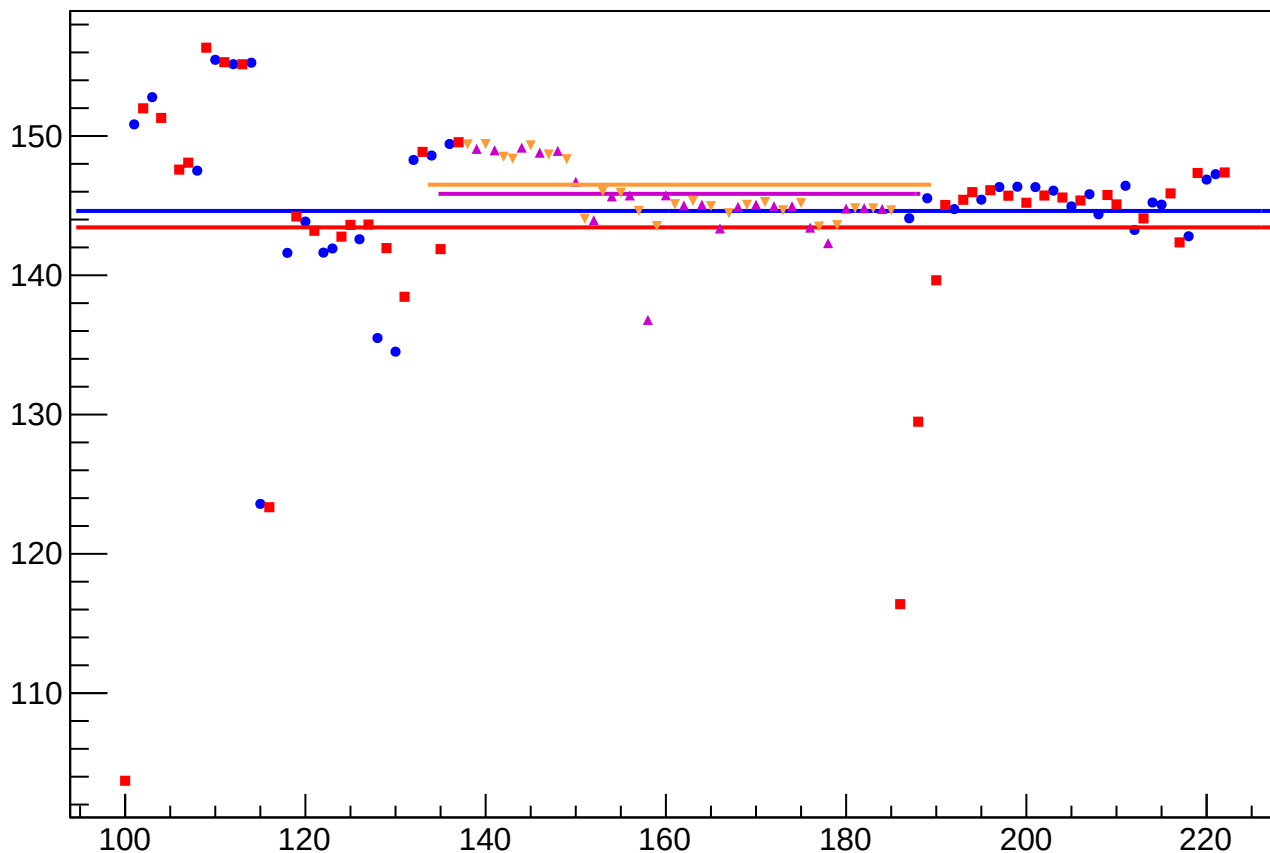
Right: 0.424+/-0.000 χ^2/NDF : 8146944.7/72

In: 0.438+/-0.000 χ^2/NDF :5294549.2/57

Out: 0.432+/-0.000 χ^2/NDF :5548931.5/62

All: 0.435+/-0.000 χ^2/NDF : 10850162.4/120

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.619 $\pm$ 0.000 χ^2 /NDF: 3364377110.8/34

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.440 $\pm$ 0.000 χ^2 /NDF: 7154585463.6/37

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

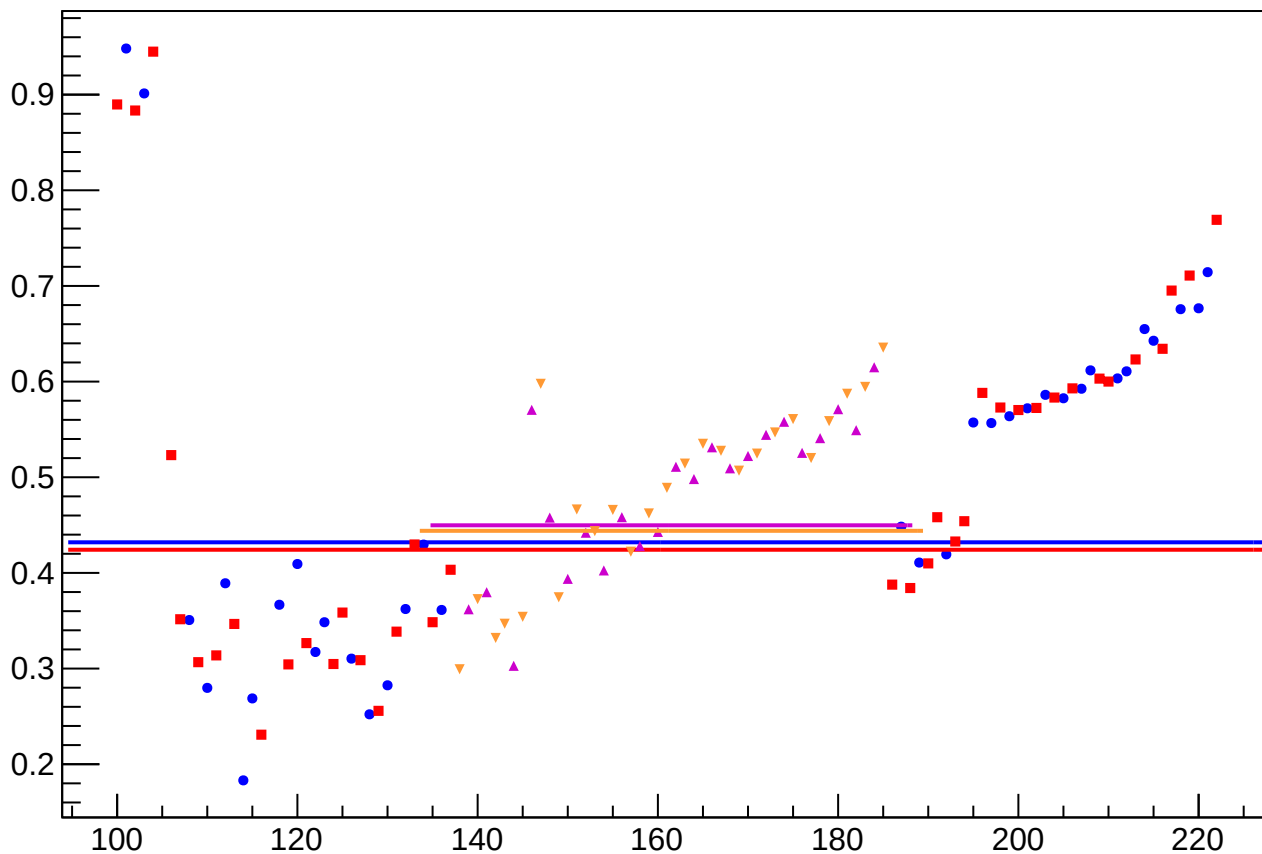
Right: 144.002 $\pm$ 0.000 χ^2 /NDF: 10582811127.1/72

In: 145.209 $\pm$ 0.000 χ^2 /NDF: 4122717358.7/57

Out: 144.894 $\pm$ 0.000 χ^2 /NDF: 7985317697.3/62

All: 145.045 $\pm$ 0.000 χ^2 /NDF: 12116736937.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.432 $\pm$ 0.000 χ^2 /NDF: 4172675.4/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.424 $\pm$ 0.000 χ^2 /NDF: 4054091.5/37

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

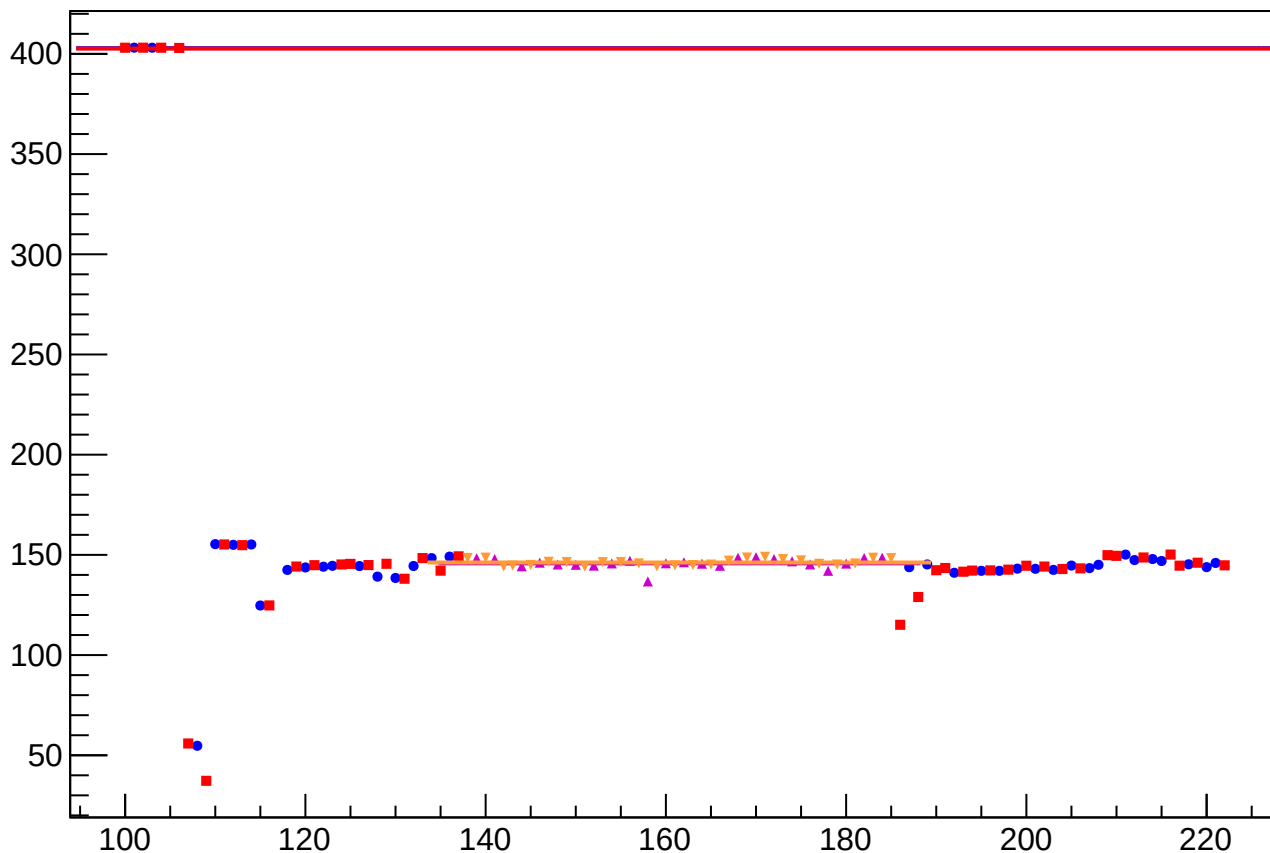
Right: 0.428 $\pm$ 0.000 χ^2 /NDF: 8232318.3/72

In: 0.441 $\pm$ 0.000 χ^2 /NDF:5304743.1/57

Out: 0.434 $\pm$ 0.000 χ^2 /NDF:5553152.9/62

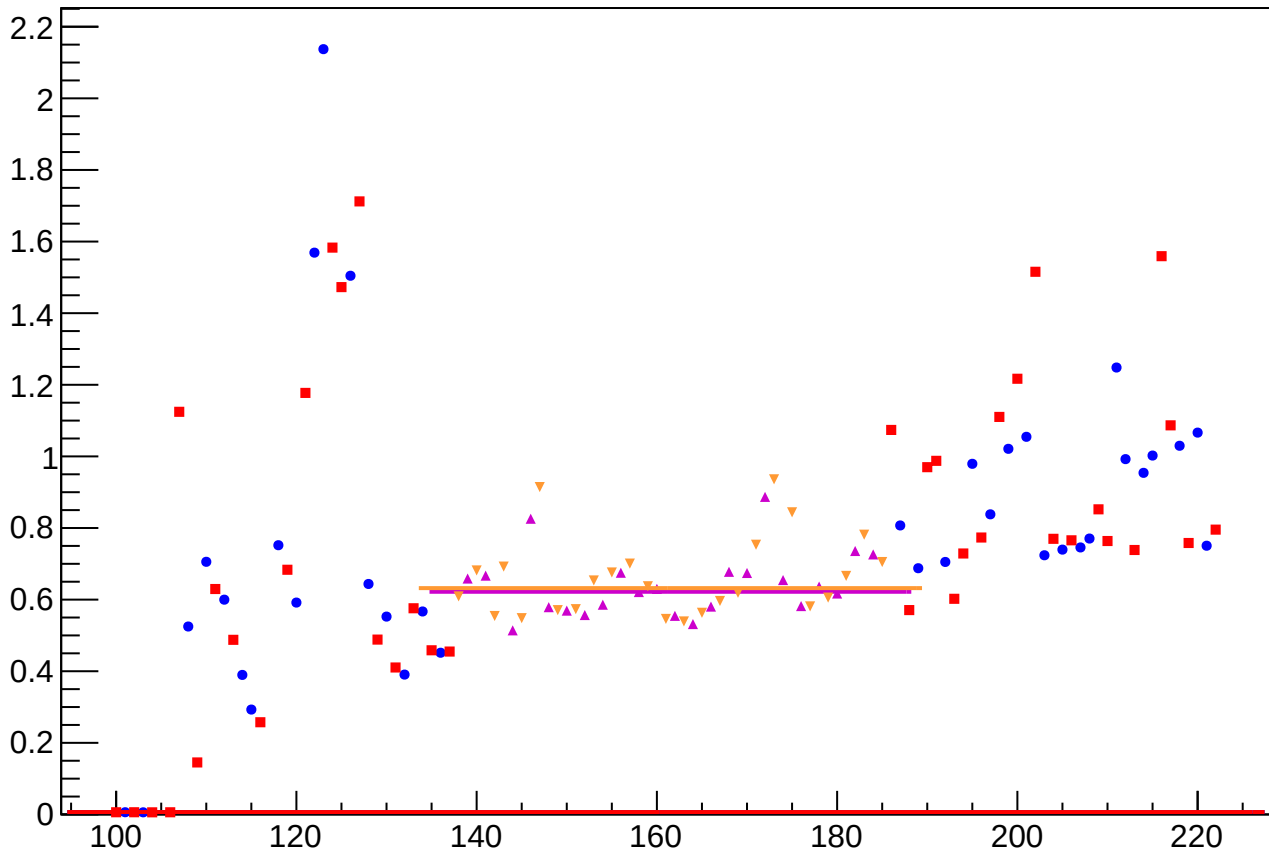
All: 0.437 $\pm$ 0.000 χ^2 /NDF: 10866327.0/120

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.843 $\pm$ 0.000	χ^2 /NDF: 2017293606477.2/34	Left: 145.990 $\pm$ 0.000	χ^2 /NDF: 297342055.1/47
Left Out: 146.205 $\pm$ 0.000	χ^2 /NDF: 86658381.3/24	Right: 402.751 $\pm$ 0.000	χ^2 /NDF: 6311345714101.5
Right Out: 402.669 $\pm$ 0.000	χ^2 /NDF: 4293551815950.8/37	In: 402.550 $\pm$ 0.000	χ^2 /NDF: 4365235899568.5/57
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.408 $\pm$ 0.000	χ^2 /NDF: 6660542680781.5/67
		All: 402.474 $\pm$ 0.000	χ^2 /NDF: 110261146142

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 29475865.4/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 32024714.0/37

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

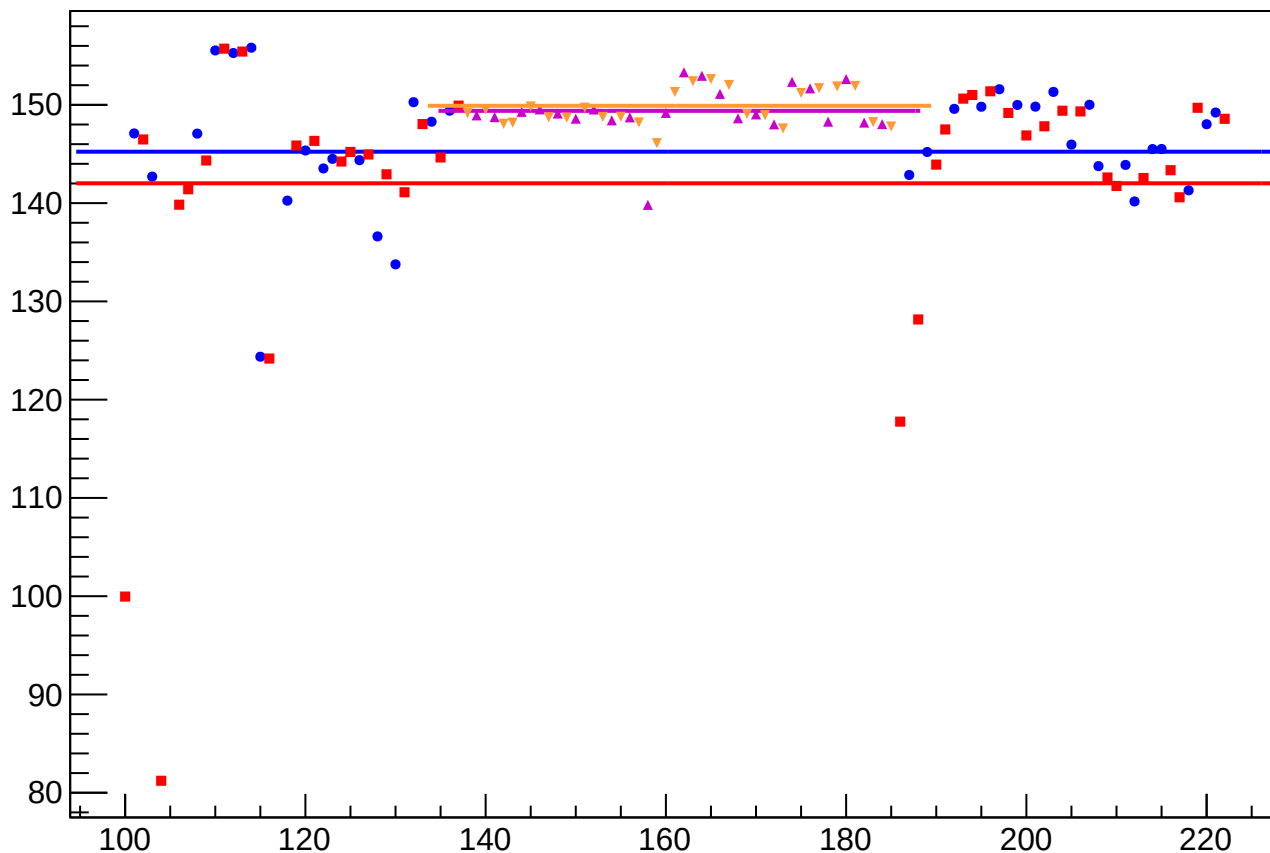
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 61500580.0/72

In: 0.007 $\pm$ 0.000 χ^2 /NDF:56773742.1/57

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:60788090.1/62

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 117561948.7/120

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.232 $\pm$ 0.000 χ^2 /NDF: 1396884768.4/34

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 142.018 $\pm$ 0.000 χ^2 /NDF: 3386482549.0/37

Left In: 149.391 $\pm$ 0.000 χ^2 /NDF: 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2 /NDF: 606930259.3/47

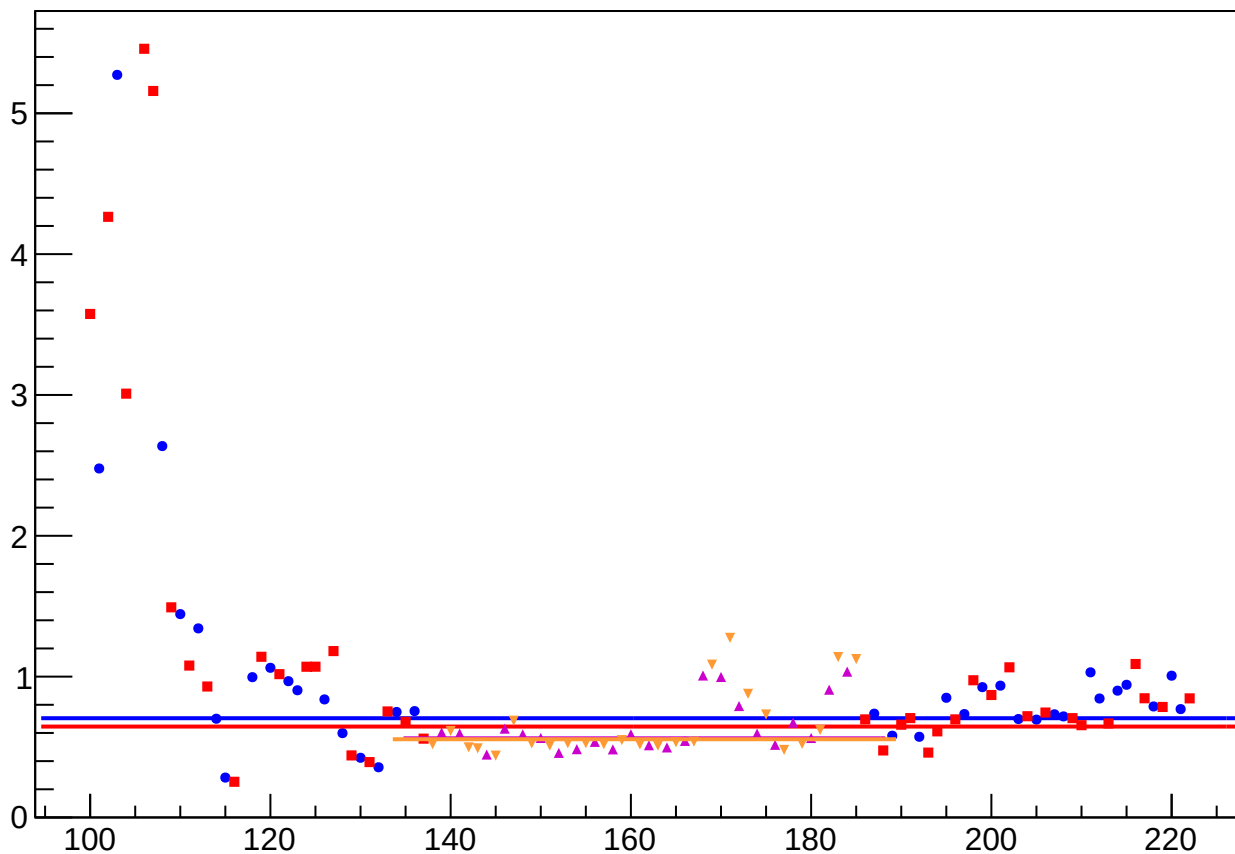
Right: 143.451 $\pm$ 0.000 χ^2 /NDF: 4943916506.6/72

In: 147.849 $\pm$ 0.000 χ^2 /NDF: 2139190393.6/57

Out: 146.701 $\pm$ 0.000 χ^2 /NDF: 4837310028.5/62

All: 147.239 $\pm$ 0.000 χ^2 /NDF: 7029494192.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.705 $\pm$ 0.000 χ^2 /NDF: 4507454.7/34

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.645 $\pm$ 0.000 χ^2 /NDF: 6059308.3/37

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

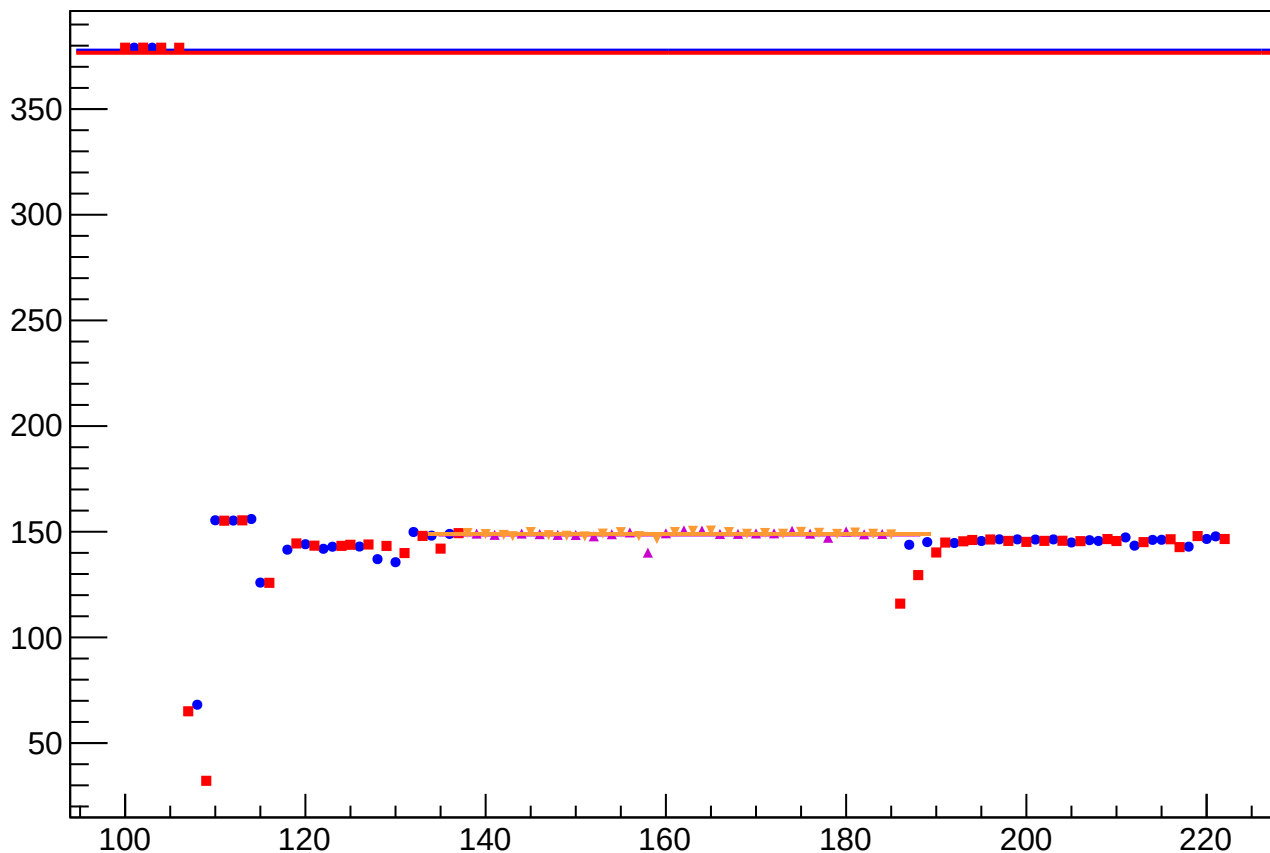
Right: 0.672 $\pm$ 0.000 χ^2 /NDF: 10675939.8/72

In: 0.615 $\pm$ 0.000 χ^2 /NDF:6536409.2/57

Out: 0.592 $\pm$ 0.000 χ^2 /NDF:8168108.3/62

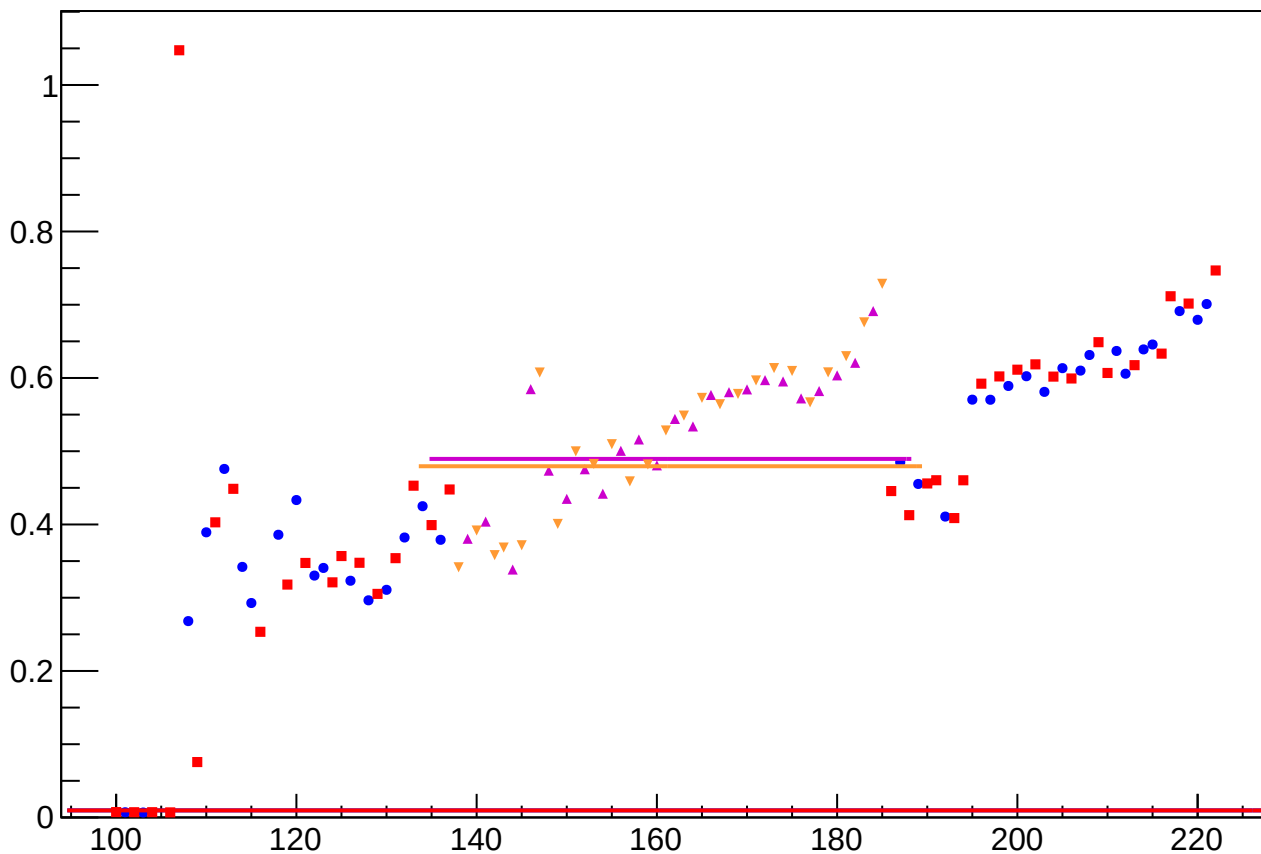
All: 0.603 $\pm$ 0.000 χ^2 /NDF: 14746922.8/120

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.656+/-0.000	χ^2/NDF : 4448172953959.0/34	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.117+/-0.000	χ^2/NDF : 15038073931792.4
Right Out: 376.644+/-0.000	χ^2/NDF : 10582616096032.4/37	In: 376.481+/-0.000	χ^2/NDF : 8042683158251.4/57
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.530+/-0.000	χ^2/NDF : 14444915420871.9
		All: 375.974+/-0.000	χ^2/NDF : 224940573513.4

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 33764930.7/34

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 34618036.1/37

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

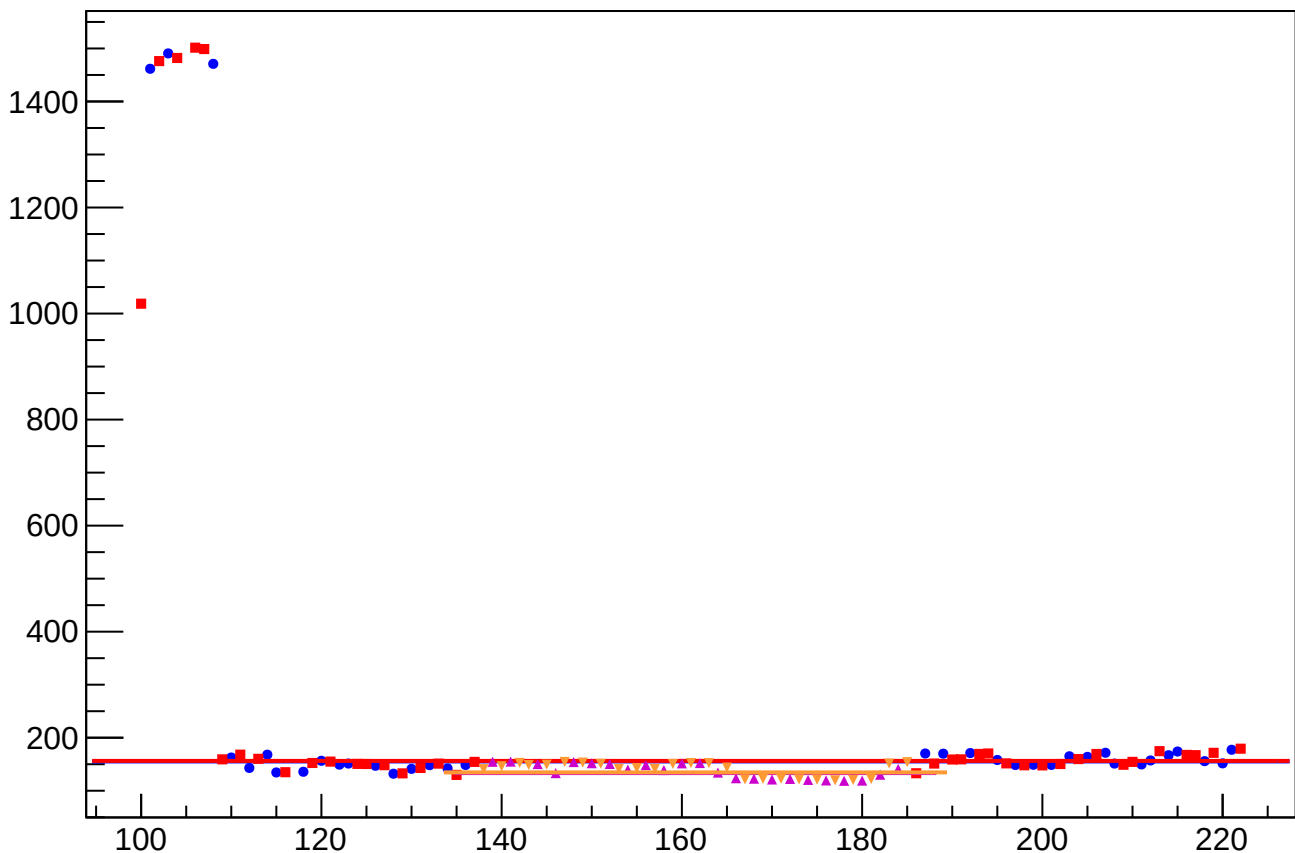
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 68382991.7/72

In: 0.012 $\pm$ 0.000 χ^2 /NDF:66426402.6/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:69029917.6/62

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 135456929.8/120

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.262 $\pm$ 0.000 χ^2 /NDF: 26285909639.3/34

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 156.277 $\pm$ 0.000 χ^2 /NDF: 35648215025.0/37

Left In: 133.309 $\pm$ 0.000 χ^2 /NDF: 4353039408.6/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8759337937.7/47

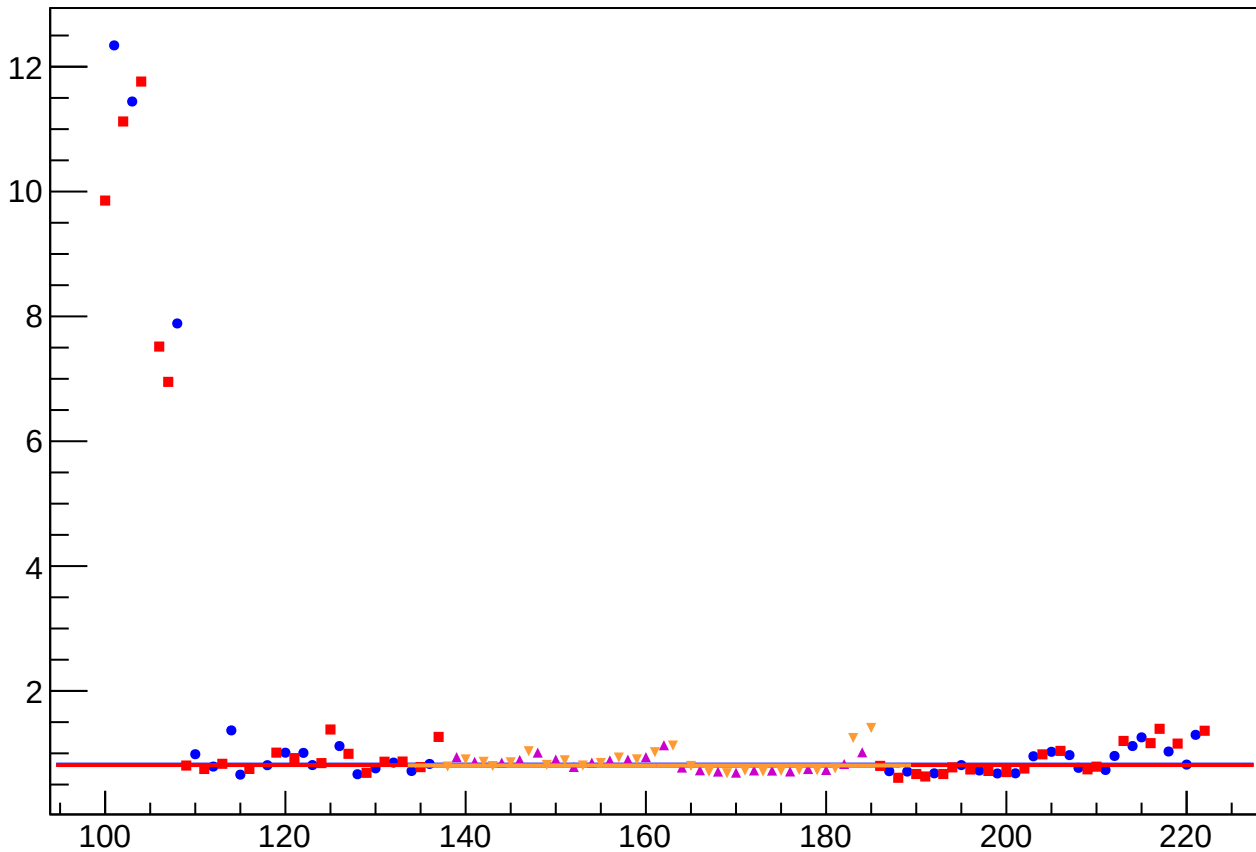
Right: 155.782 $\pm$ 0.000 χ^2 /NDF: 61945457434.0/72

In: 143.931 $\pm$ 0.000 χ^2 /NDF: 35989784443.7/57

Out: 145.153 $\pm$ 0.000 χ^2 /NDF: 45478114941.0/62

All: 144.554 $\pm$ 0.000 χ^2 /NDF: 81501806071.0/110

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.819+/-0.000 χ^2/NDF : 3467966.5/34

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.813+/-0.000 χ^2/NDF : 4177082.7/37

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

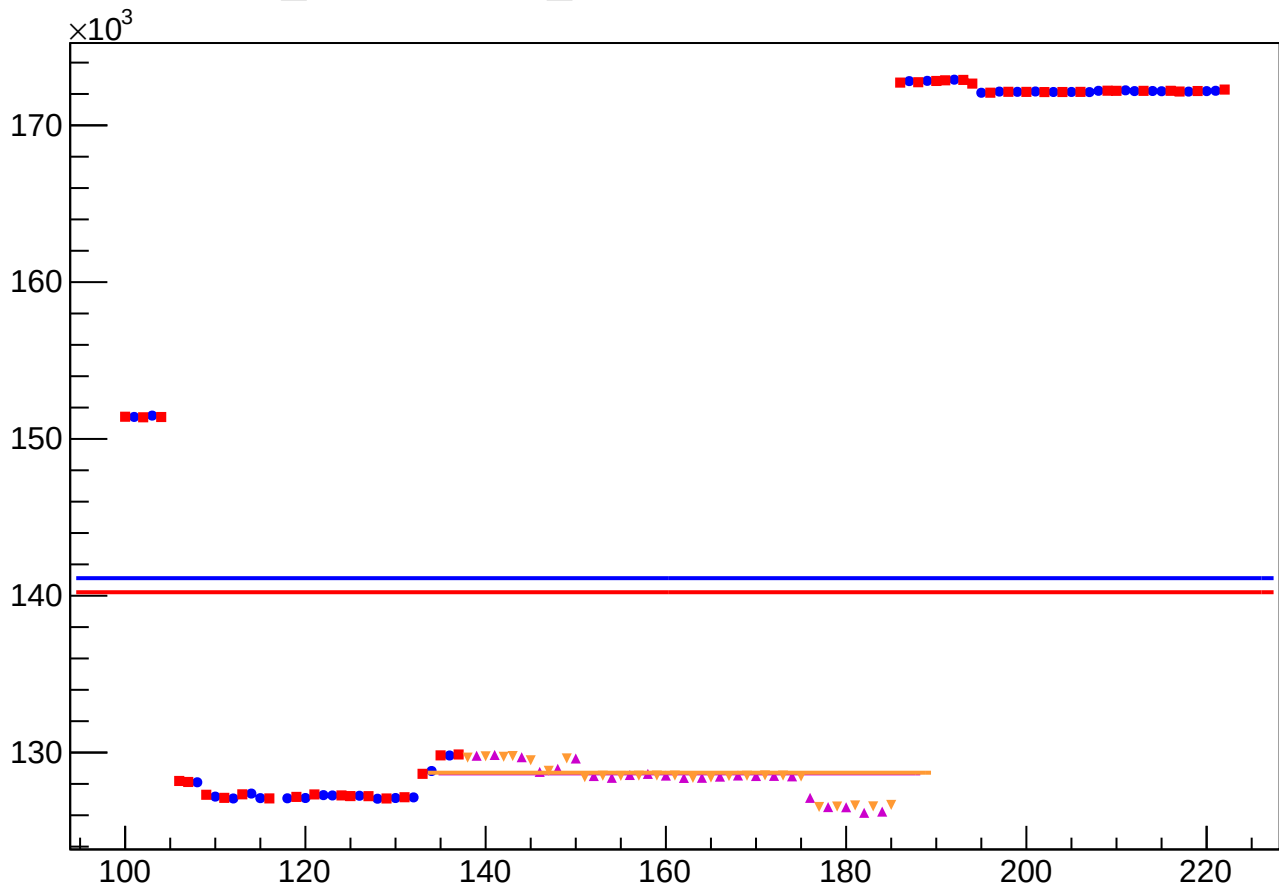
Right: 0.816+/-0.000 χ^2/NDF : 7645994.6/72

In: 0.812+/-0.000 χ^2/NDF : 3952348.7/57

Out: 0.810+/-0.000 χ^2/NDF : 4882056.0/62

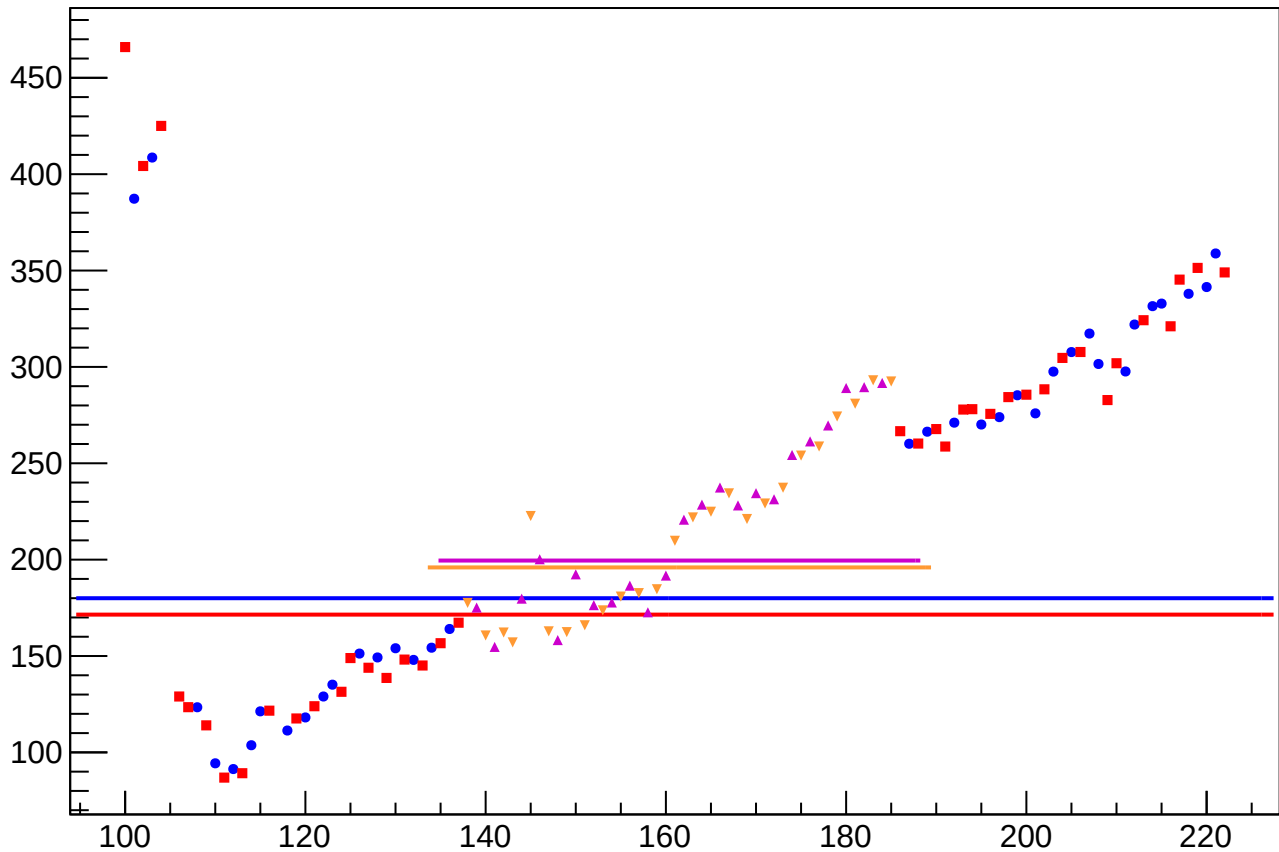
All: 0.811+/-0.000 χ^2/NDF : 8834595.2/120

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 141120.787 $\pm$ 0.046	χ^2 /NDF: 198393024425.1/34	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: 140642.079 $\pm$ 0.031	χ^2 /NDF: 417563155275
Right Out: 140223.805 $\pm$ 0.043	χ^2 /NDF: 218965772222.7/37	In: 135288.946 $\pm$ 0.033	χ^2 /NDF: 233284992000.7
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134957.150 $\pm$ 0.032	χ^2 /NDF: 252332735345
		All: 135113.536 $\pm$ 0.023	χ^2 /NDF: 48566983

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 179.989 $\pm$ 0.032 χ^2 /NDF: 7349090.9/34

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 171.478 $\pm$ 0.030 χ^2 /NDF: 8052816.7/37

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

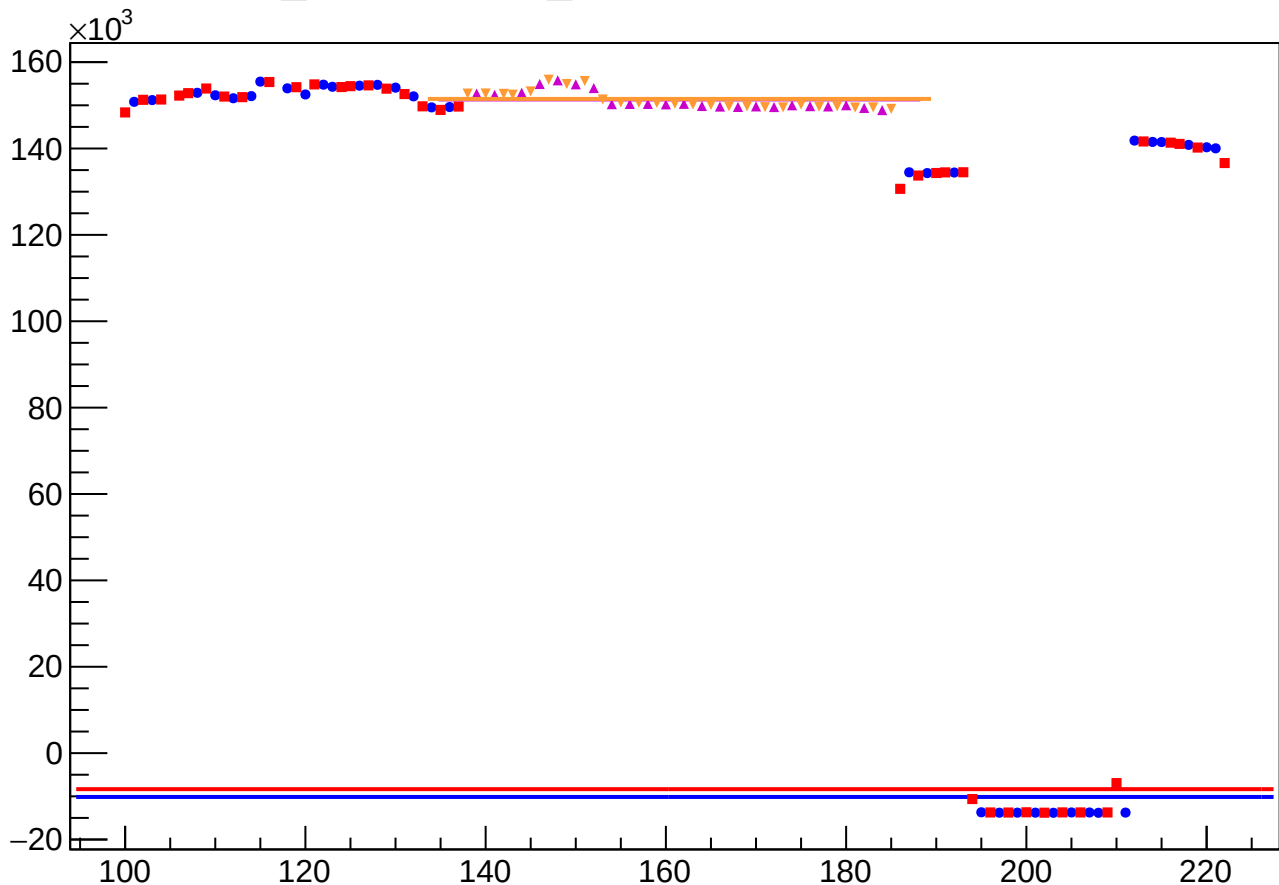
Right: 175.447 $\pm$ 0.022 χ^2 /NDF: 15438696.6/72

In: 189.142 $\pm$ 0.024 χ^2 /NDF:8694707.0/57

Out: 182.682 $\pm$ 0.022 χ^2 /NDF:9667757.9/62

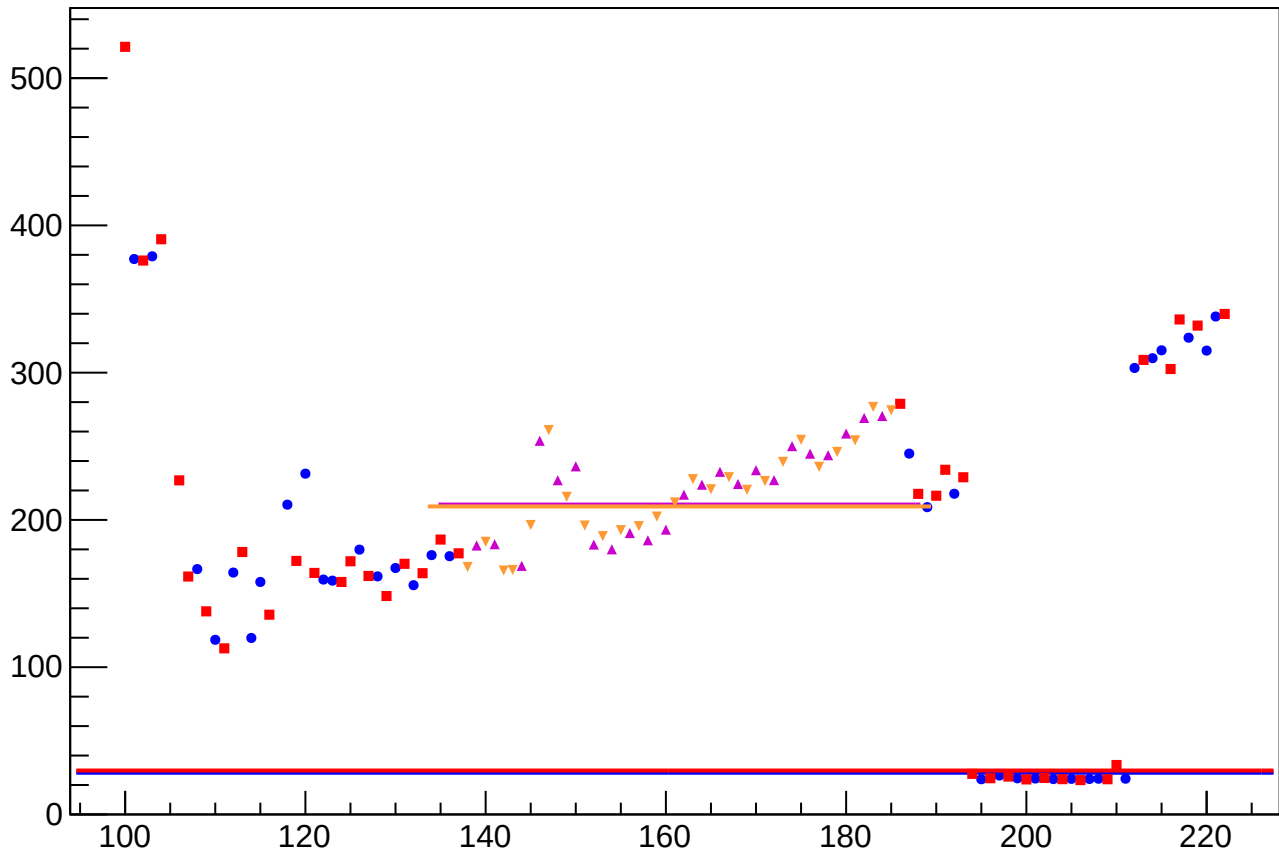
All: 185.727 $\pm$ 0.016 χ^2 /NDF: 18401966.3/12

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10146.372 $\pm$ 0.009	χ^2/NDF : 6828333365408.1/34	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: -9323.422 $\pm$ 0.007	χ^2/NDF : 1481906081251.0
Right Out: -8339.520 $\pm$ 0.010	χ^2/NDF : 7973087744581.2/37	In: -5119.104 $\pm$ 0.009	χ^2/NDF : 16461915685761.0
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: -2018.725 $\pm$ 0.010	χ^2/NDF : 17998069184273.0
		All: -3700.287 $\pm$ 0.007	χ^2/NDF : 3451384525.0

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.330 $\pm$ 0.006 χ^2 /NDF: 18397877.6/34

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 29.833 $\pm$ 0.007 χ^2 /NDF: 19810346.2/37

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

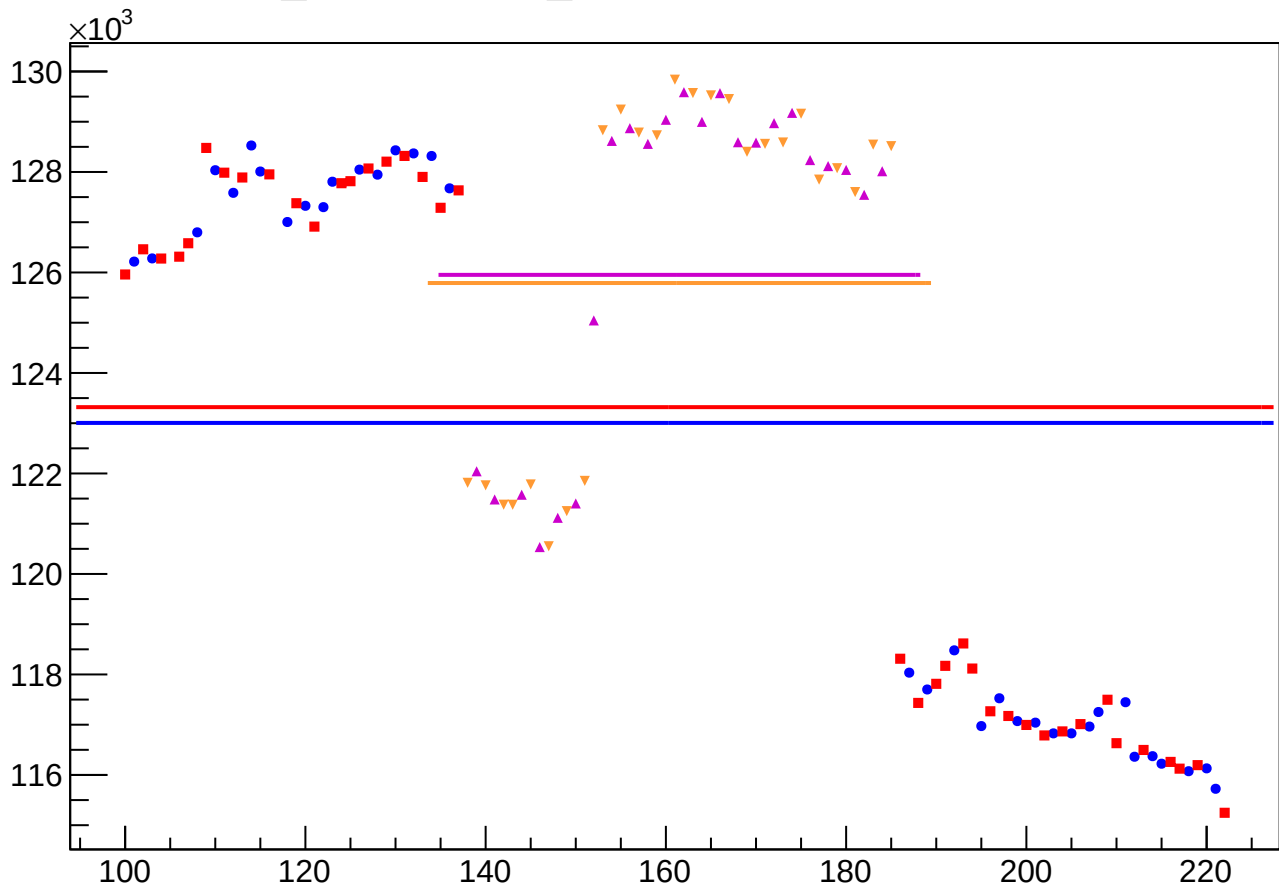
Right: 29.015 $\pm$ 0.005 χ^2 /NDF: 38232651.4/72

In: 33.998 $\pm$ 0.006 χ^2 /NDF: 43571620.0/57

Out: 36.926 $\pm$ 0.007 χ^2 /NDF: 45758485.0/62

All: 35.338 $\pm$ 0.005 χ^2 /NDF: 89426139.0/120

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123005.954 $\pm$ 0.044

Left Out: 125790.126 $\pm$ 0.044

Right Out: 123319.786 $\pm$ 0.042

Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 14969853953.0/34

χ^2 /NDF: 6744310079.8/24

χ^2 /NDF: 15955843913.0/37

χ^2 /NDF: 5841800367.5/22

Left: 125870.001 $\pm$ 0.031

Right: 123170.198 $\pm$ 0.030

In: 124447.188 $\pm$ 0.031

Out: 124490.009 $\pm$ 0.030

χ^2 /NDF: 12592819321.6/34

χ^2 /NDF: 30952685890.3/24

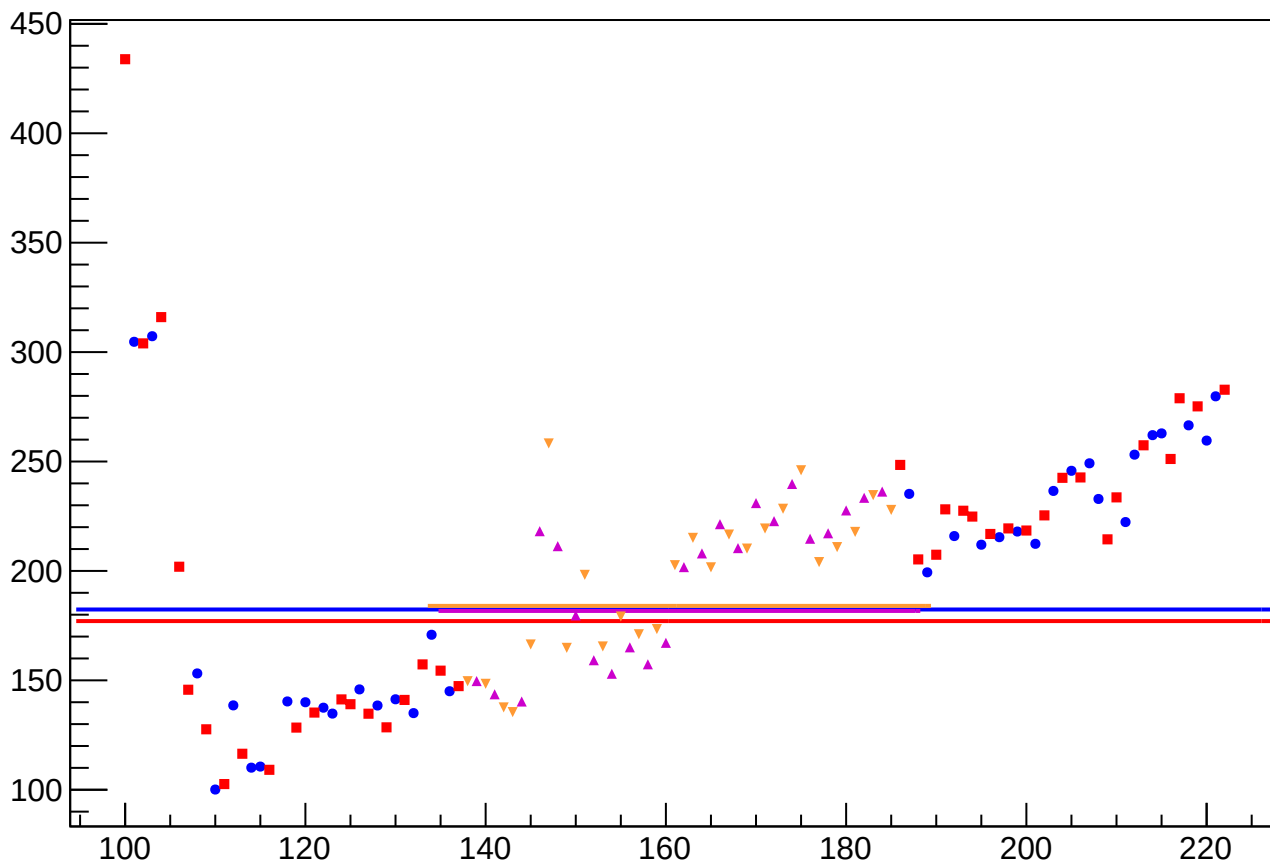
χ^2 /NDF: 23035099221.4/37

χ^2 /NDF: 24362043323.2/22

All: 124469.280 $\pm$ 0.022

χ^2 /NDF: 473981120.0/34

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 182.376+/-0.031 χ^2/NDF : 3188801.9/34

Left Out: 184.029+/-0.031 χ^2/NDF :1126592.5/24

Right Out: 177.080+/-0.029 χ^2/NDF : 3796480.4/37

Left In: 181.714+/-0.032 χ^2/NDF :1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

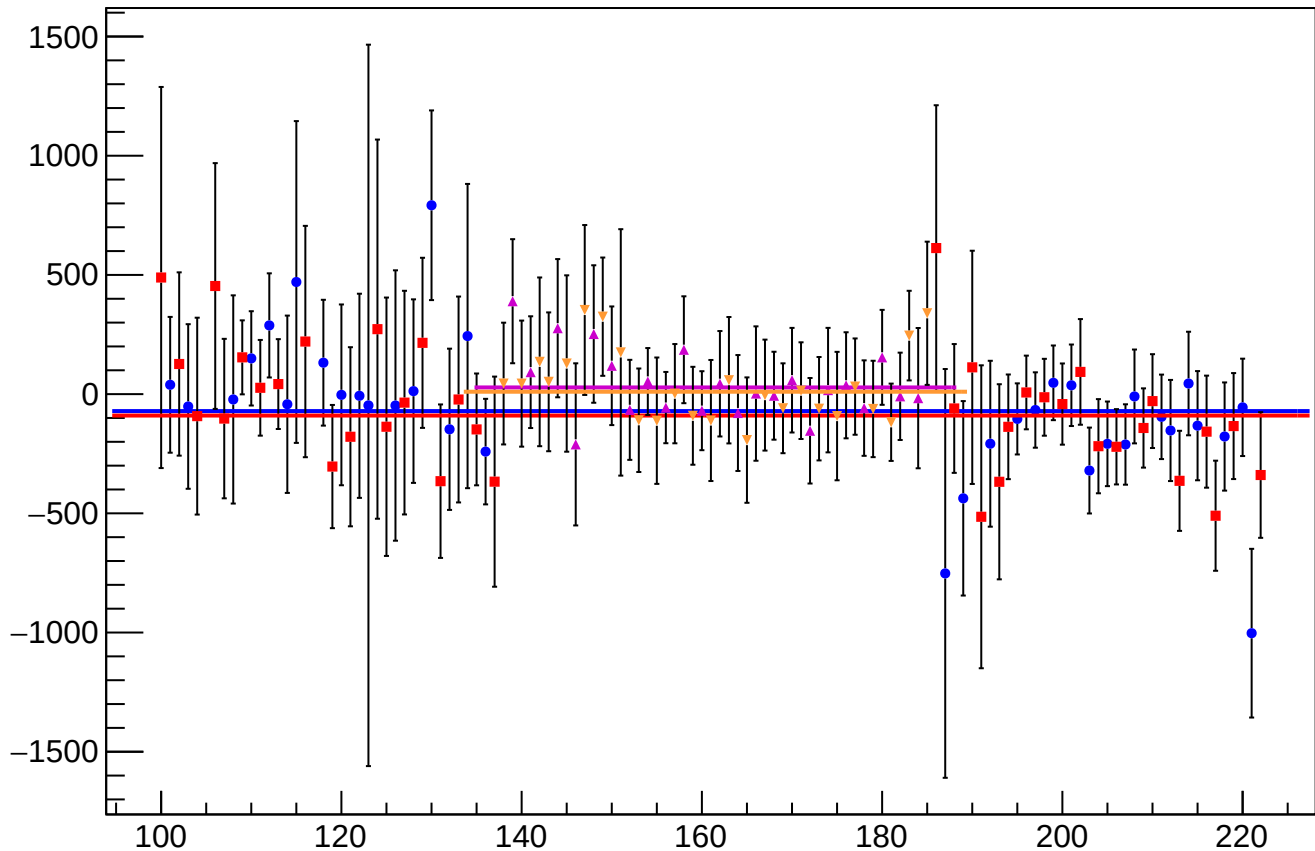
Right: 179.604+/-0.021 χ^2/NDF : 7000656.8/72

In: 182.052+/-0.022 χ^2/NDF :4305168.7/57

Out: 180.372+/-0.021 χ^2/NDF :4949377.0/62

All: 181.185+/-0.015 χ^2/NDF : 9257532.5/120

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -71.133 ± 40.763 χ^2/NDF : 24.7/34

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -89.825 ± 40.474 χ^2/NDF : 19.8/37

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

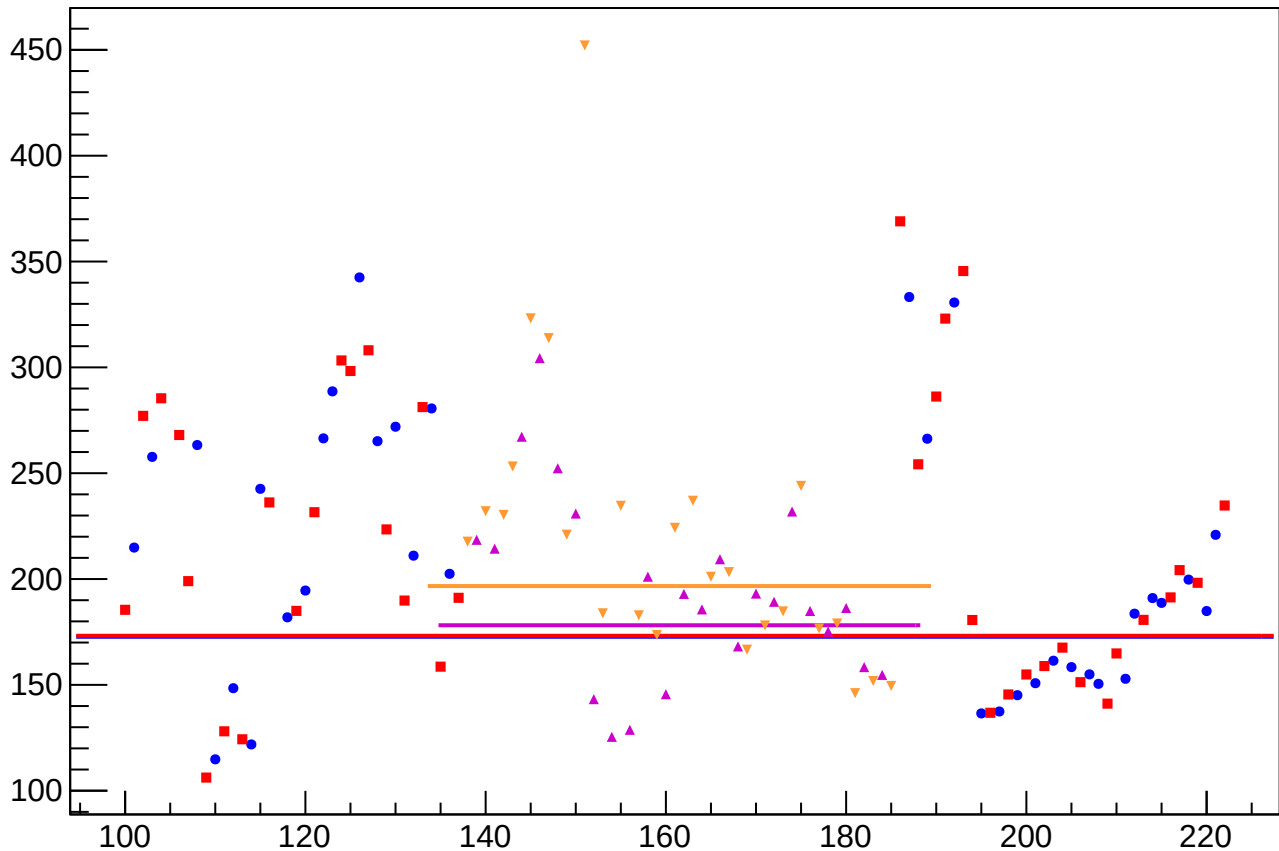
Right: -80.546 ± 28.721 χ^2/NDF : 44.6/72

In: -25.960 ± 30.081 χ^2/NDF : 34.3/57

Out: -47.790 ± 30.804 χ^2/NDF : 30.8/62

All: -36.616 ± 21.521 χ^2/NDF : 65.4/120

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.736+/-0.029 χ^2/NDF : 2256134.1/34

Left Out: 196.682+/-0.034 χ^2/NDF : 1782715.7/24

Right Out: 173.197+/-0.029 χ^2/NDF : 3048290.2/37

Left In: 178.166+/-0.032 χ^2/NDF : 1618967.9/22

Left: 186.838+/-0.023 χ^2/NDF : 3563331.3/47

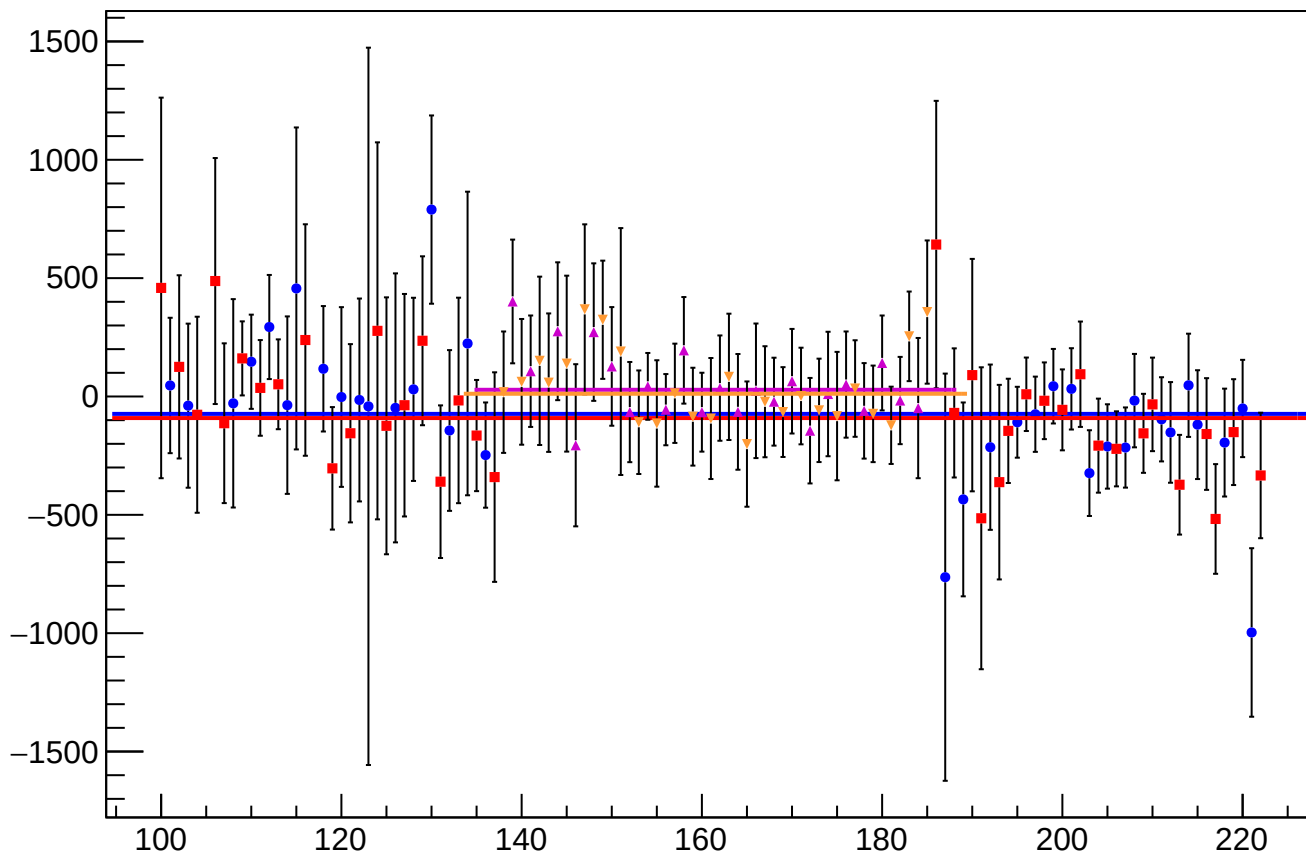
Right: 172.968+/-0.020 χ^2/NDF : 5304553.1/72

In: 175.209+/-0.021 χ^2/NDF : 3891262.3/57

Out: 183.078+/-0.022 χ^2/NDF : 5114326.7/62

All: 179.050+/-0.015 χ^2/NDF : 9072404.9/120

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -73.519 ± 40.951 $\chi^2/\text{NDF}: 24.4/34$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -91.176 ± 40.670 $\chi^2/\text{NDF}: 20.3/37$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

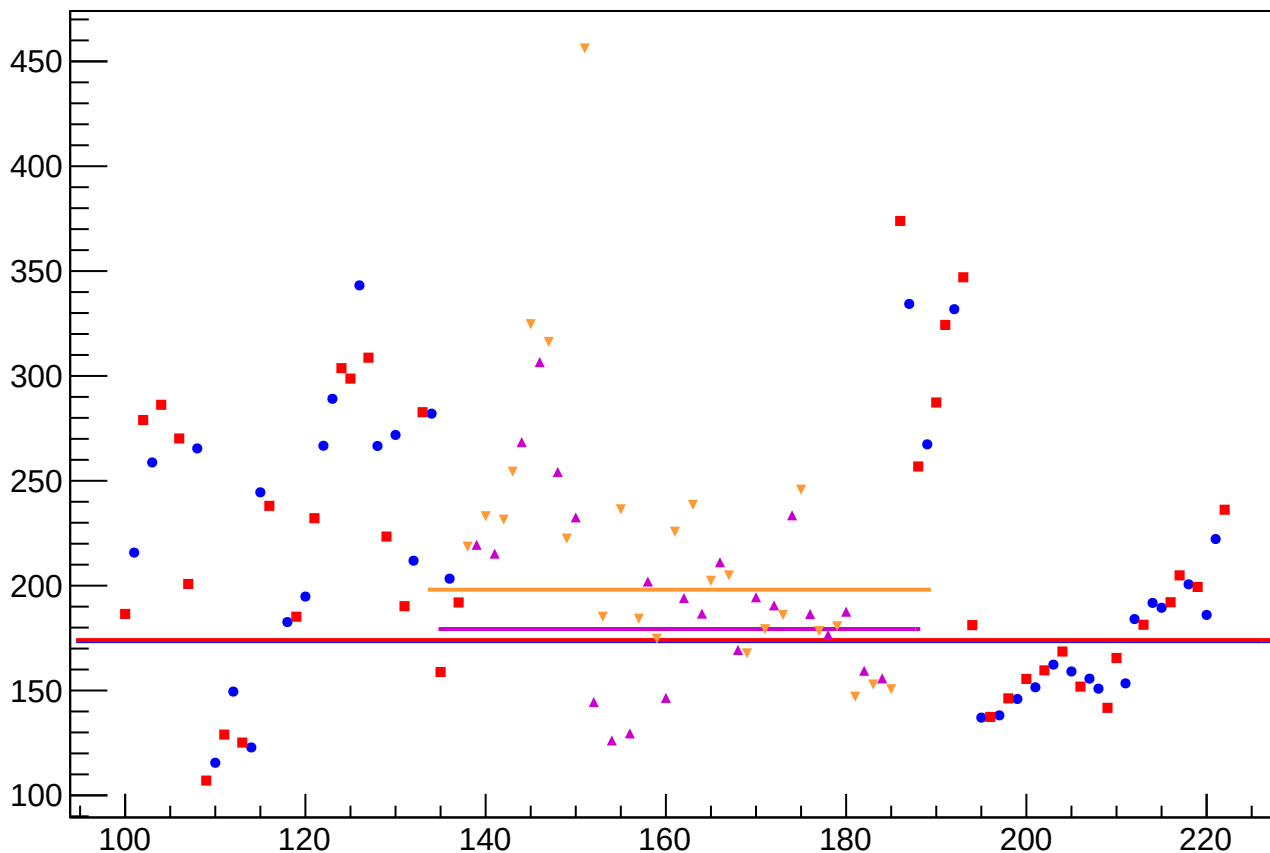
Right: -82.408 ± 28.857 $\chi^2/\text{NDF}: 44.8/72$

In: -27.251 ± 30.245 $\chi^2/\text{NDF}: 34.3/57$

Out: -48.088 ± 30.981 $\chi^2/\text{NDF}: 31.8/62$

All: -37.420 ± 21.642 $\chi^2/\text{NDF}: 66.3/120$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 173.548 $\pm$ 0.029 χ^2 /NDF: 2247988.8/34

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 174.045 $\pm$ 0.029 χ^2 /NDF: 3044413.7/37

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF:1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

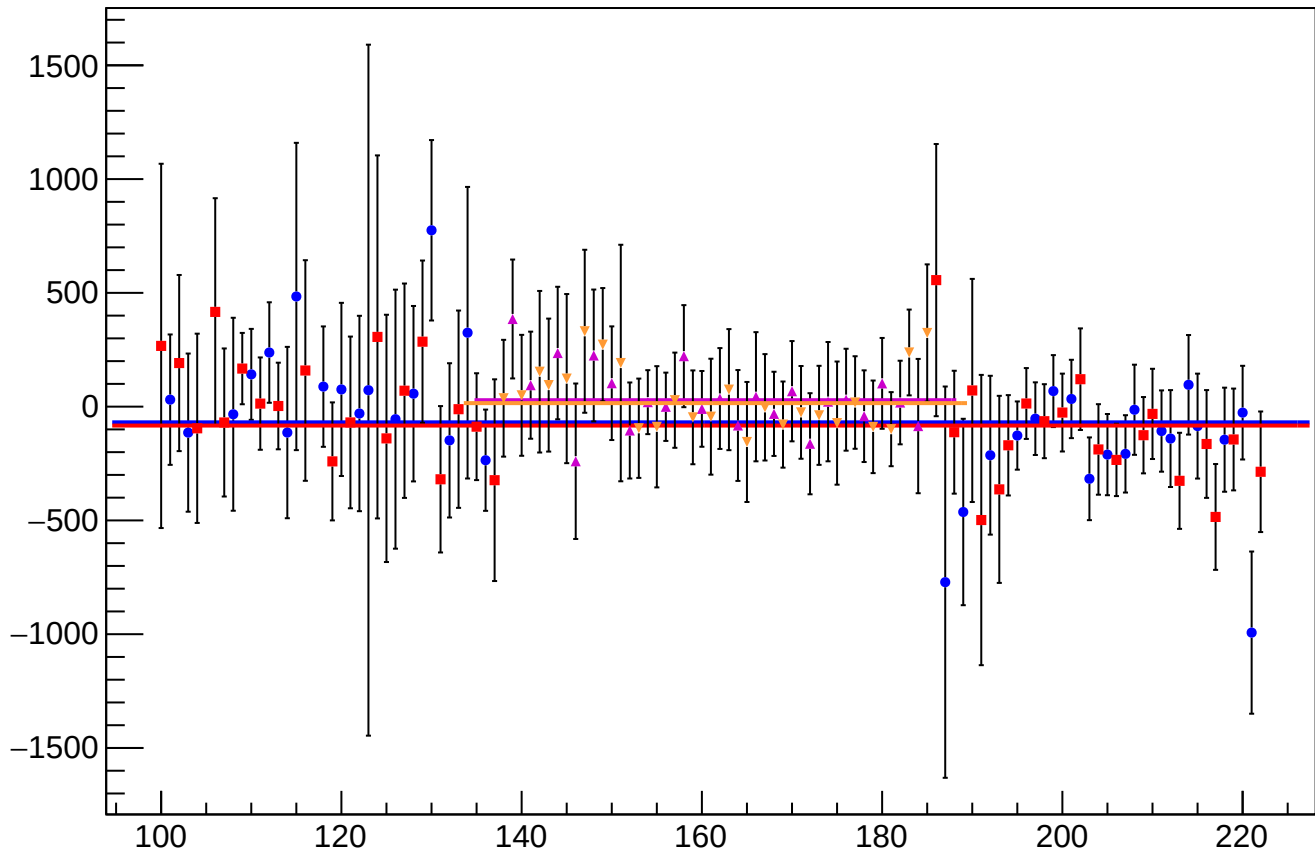
Right: 173.798 $\pm$ 0.020 χ^2 /NDF: 5292550.9/72

In: 176.173 $\pm$ 0.021 χ^2 /NDF:3884339.4/57

Out: 184.124 $\pm$ 0.022 χ^2 /NDF:5115611.1/62

All: 180.053 $\pm$ 0.015 χ^2 /NDF: 9067405.8/120

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -68.994 ± 41.034 $\chi^2/\text{NDF}: 23.9/34$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -83.161 ± 40.705 $\chi^2/\text{NDF}: 17.6/37$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

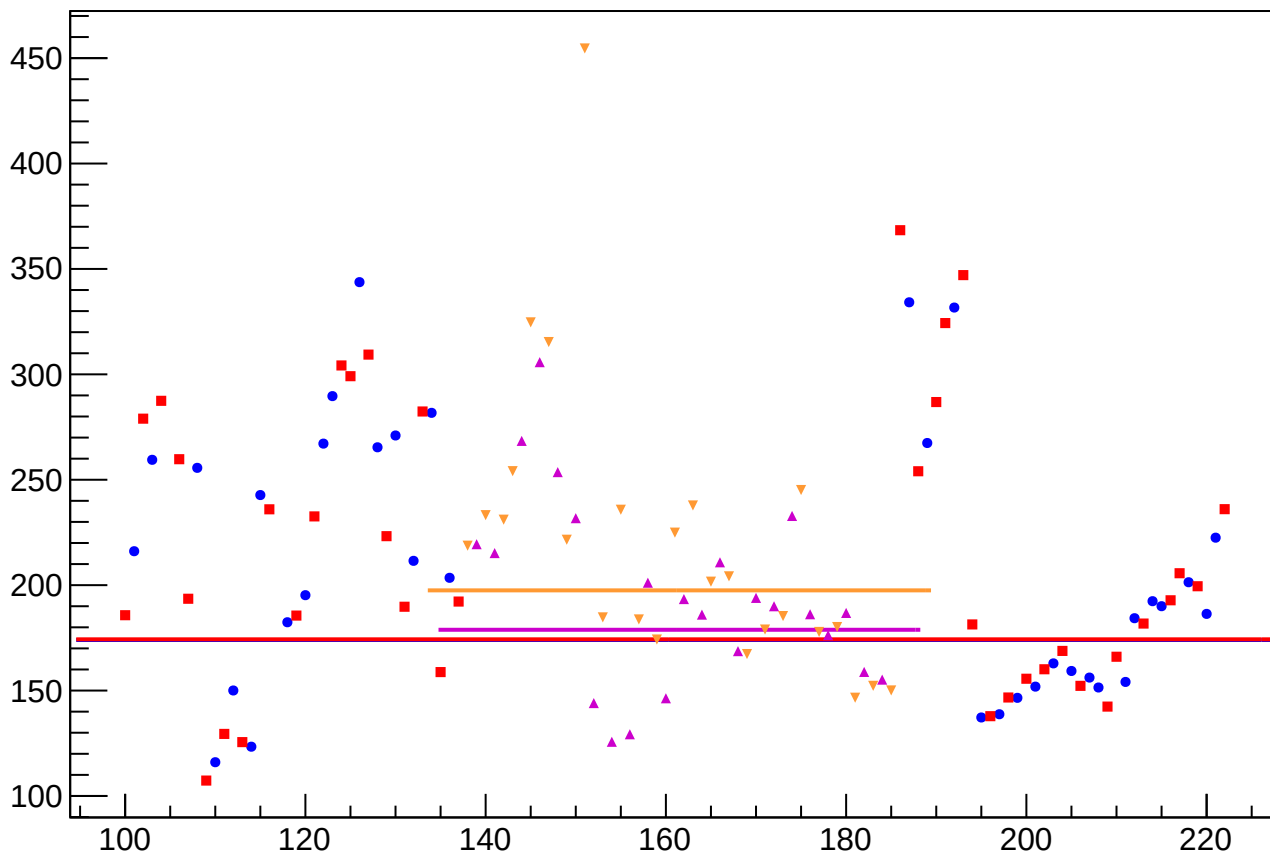
Right: -76.134 ± 28.898 $\chi^2/\text{NDF}: 41.6/72$

In: -24.557 ± 30.242 $\chi^2/\text{NDF}: 32.8/57$

Out: -41.609 ± 30.962 $\chi^2/\text{NDF}: 27.1/62$

All: -32.883 ± 21.634 $\chi^2/\text{NDF}: 60.0/120$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.983 $\pm$ 0.029 χ^2/NDF : 2215553.0/34

Left Out: 197.527 $\pm$ 0.034 χ^2/NDF : 1784225.5/24

Right Out: 174.303 $\pm$ 0.029 χ^2/NDF : 2996658.0/37

Left In: 178.836 $\pm$ 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2/NDF : 3569877.1/47

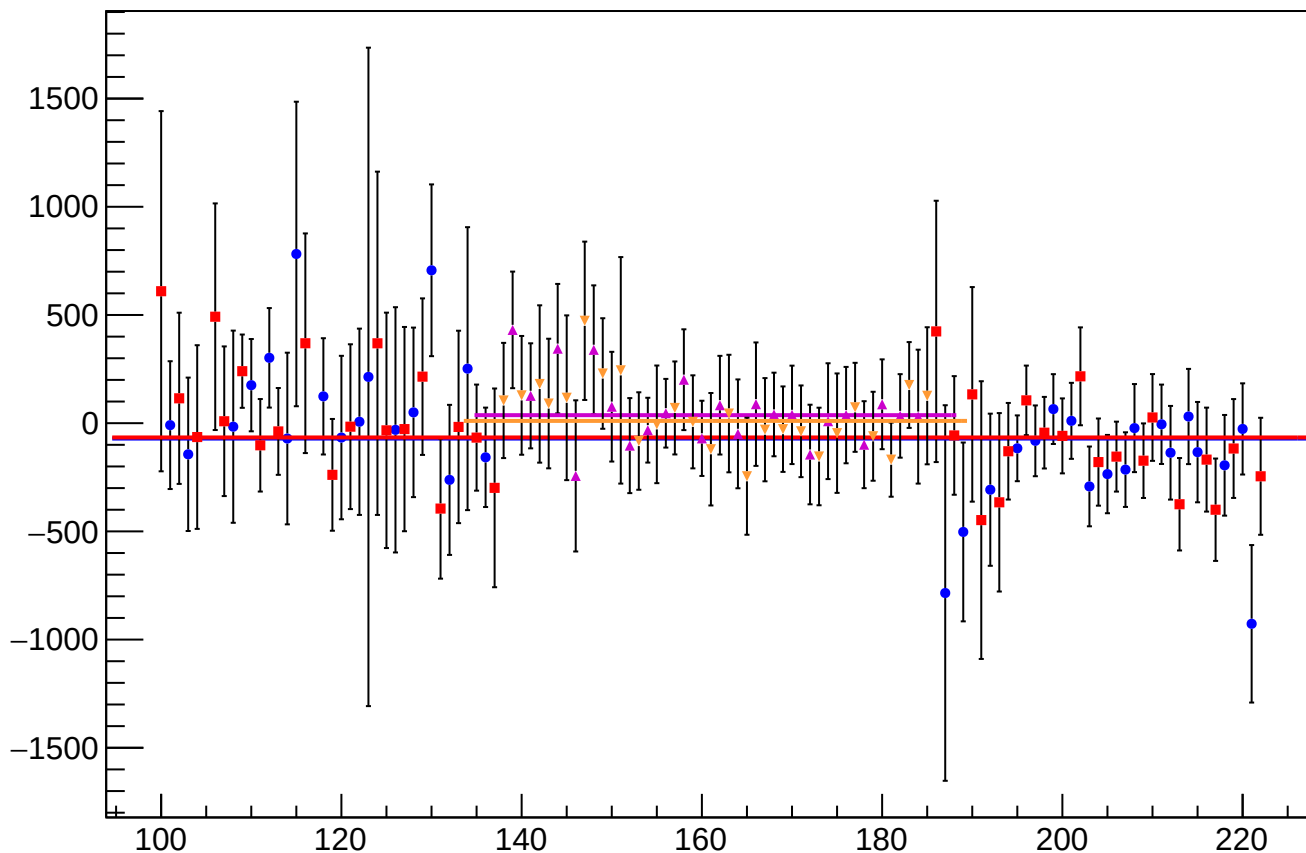
Right: 174.144 $\pm$ 0.020 χ^2/NDF : 5212272.3/72

In: 176.200 $\pm$ 0.021 χ^2/NDF : 3850599.9/57

Out: 184.090 $\pm$ 0.022 χ^2/NDF : 5055265.8/62

All: 180.052 $\pm$ 0.015 χ^2/NDF : 8972335.2/120

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -71.070 ± 41.905 χ^2/NDF : 23.4/34

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -65.968 ± 41.739 χ^2/NDF : 19.3/37

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

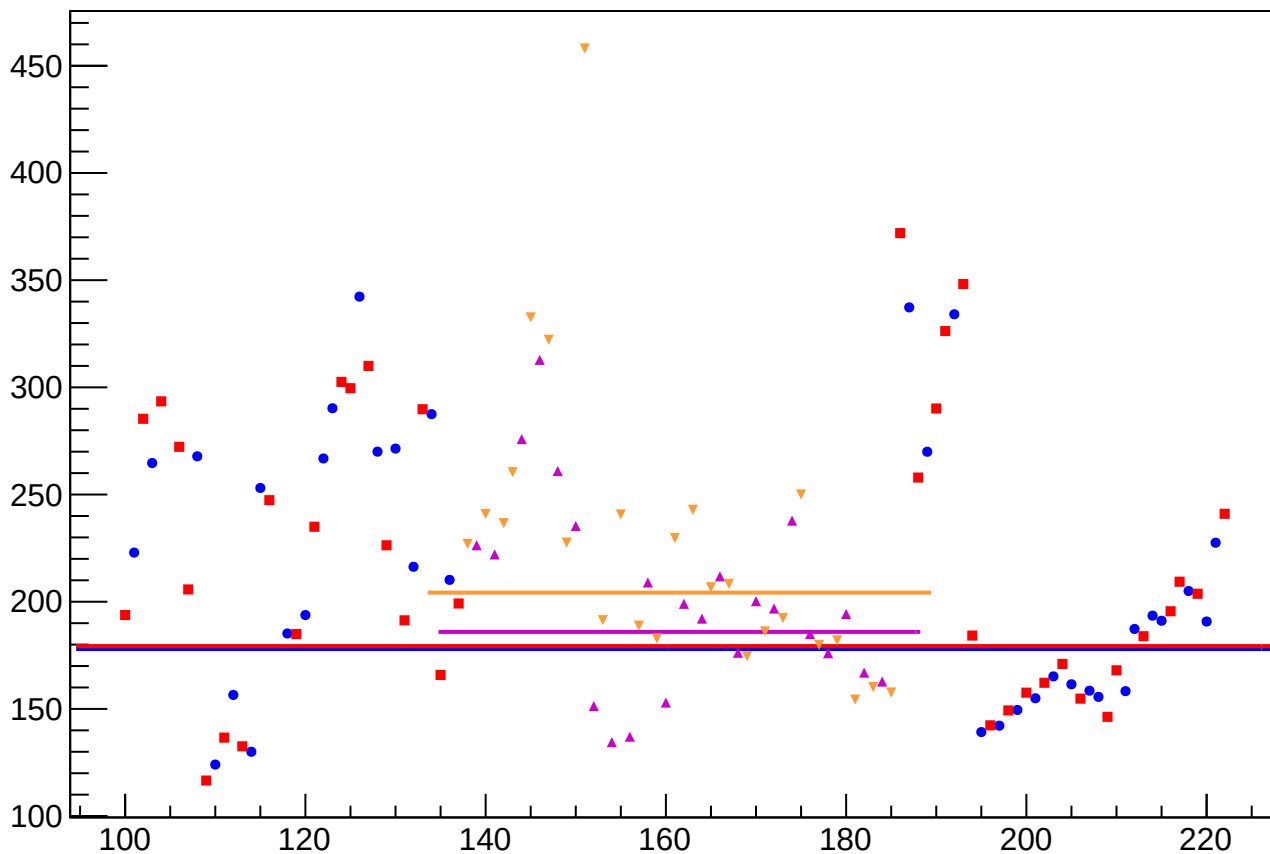
Right: -68.509 ± 29.573 χ^2/NDF : 42.7/72

In: -22.473 ± 31.087 χ^2/NDF : 34.3/57

Out: -33.949 ± 31.828 χ^2/NDF : 28.1/62

All: -28.076 ± 22.239 χ^2/NDF : 62.5/120

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.926 $\pm$ 0.030 χ^2 /NDF: 2129790.8/34

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 179.331 $\pm$ 0.030 χ^2 /NDF: 2798037.2/37

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

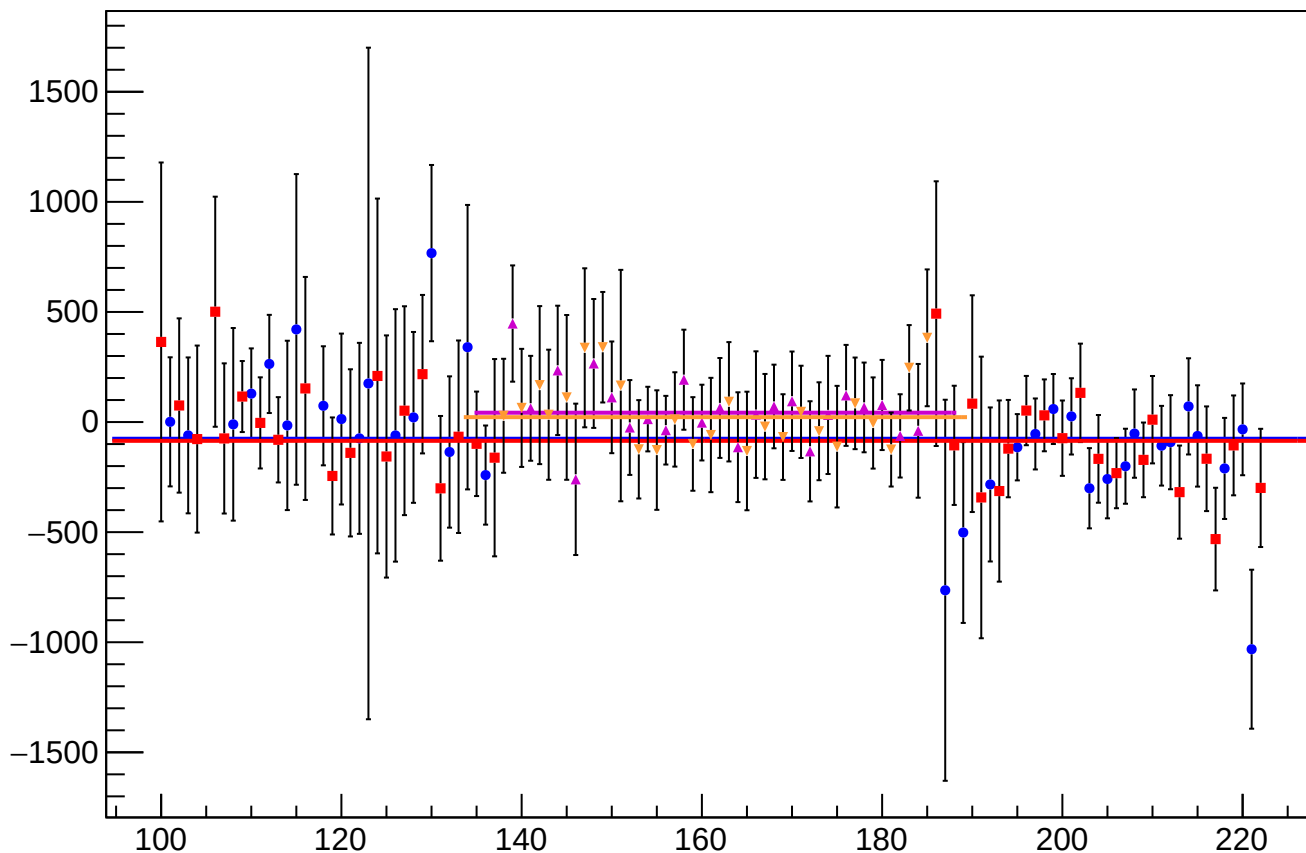
Right: 178.631 $\pm$ 0.021 χ^2 /NDF: 4928957.7/72

In: 181.526 $\pm$ 0.022 χ^2 /NDF:3622682.2/57

Out: 189.755 $\pm$ 0.023 χ^2 /NDF:4771719.6/62

All: 185.543 $\pm$ 0.016 χ^2 /NDF: 8462826.0/120

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -75.855 ± 41.392 $\chi^2/\text{NDF}: 24.0/34$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -85.255 ± 41.125 $\chi^2/\text{NDF}: 16.4/37$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

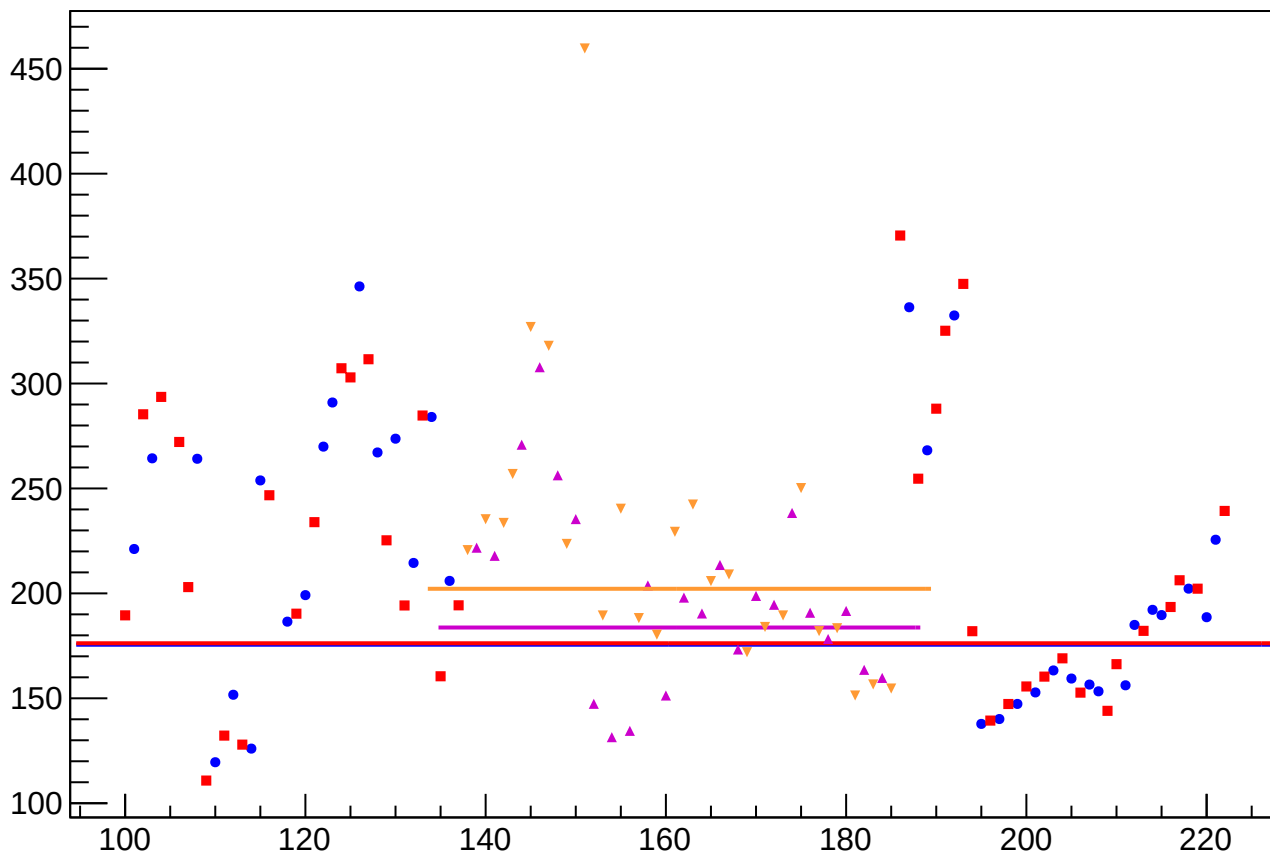
Right: -80.585 ± 29.174 $\chi^2/\text{NDF}: 40.4/72$

In: -22.747 ± 30.727 $\chi^2/\text{NDF}: 34.4/57$

Out: -40.571 ± 31.431 $\chi^2/\text{NDF}: 27.6/62$

All: -31.457 ± 21.972 $\chi^2/\text{NDF}: 62.2/120$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 175.531 ± 0.029 $\chi^2/\text{NDF}: 2216946.6/34$

Left Out: 202.186 ± 0.034 $\chi^2/\text{NDF}: 1696571.9/24$

Right Out: 176.230 ± 0.029 $\chi^2/\text{NDF}: 2972642.6/37$

Left In: 183.732 ± 0.032 $\chi^2/\text{NDF}: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/\text{NDF}: 3344580.1/47$

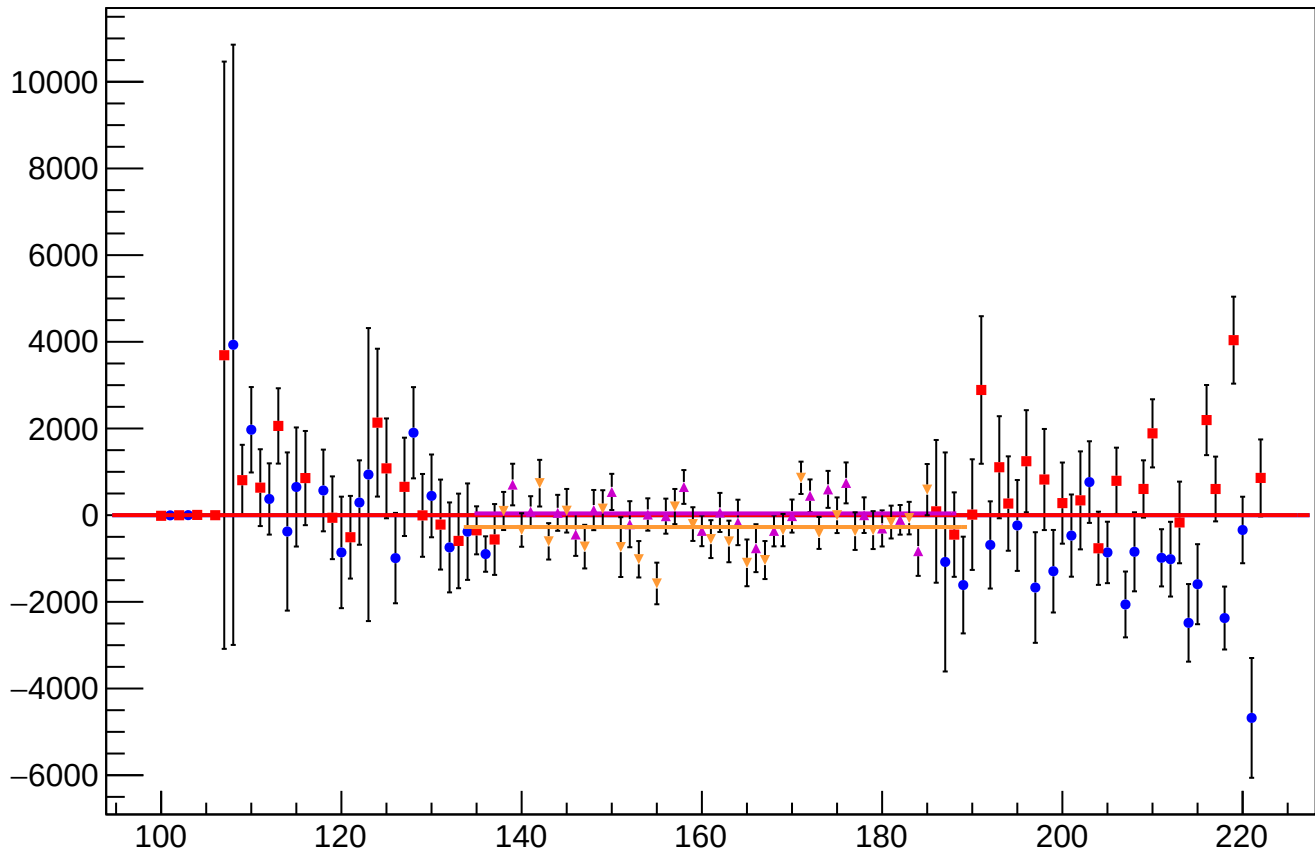
Right: 175.882 ± 0.021 $\chi^2/\text{NDF}: 5189876.4/72$

In: 179.212 ± 0.022 $\chi^2/\text{NDF}: 3748127.1/57$

Out: 187.025 ± 0.022 $\chi^2/\text{NDF}: 5000554.7/62$

All: 183.030 ± 0.016 $\chi^2/\text{NDF}: 8811857.4/120$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.665 ± 2.251 $\chi^2/\text{NDF}: 70.4/34$

Left Out: -273.664 ± 86.869 $\chi^2/\text{NDF}: 38.3/24$

Right Out: 0.810 ± 2.111 $\chi^2/\text{NDF}: 57.7/37$

Left In: 40.480 ± 87.470 $\chi^2/\text{NDF}: 20.2/22$

Left: -117.675 ± 61.637 $\chi^2/\text{NDF}: 65.0/47$

Right: -0.348 ± 1.540 $\chi^2/\text{NDF}: 128.7/72$

In: -1.637 ± 2.251 $\chi^2/\text{NDF}: 90.8/57$

Out: 0.648 ± 2.110 $\chi^2/\text{NDF}: 106.0/62$

All: -0.421 ± 1.539 $\chi^2/\text{NDF}: 197.3/120$

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.539+/-0.002 χ^2/NDF : 35756030.1/34

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.509+/-0.001 χ^2/NDF : 37218443.8/37

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

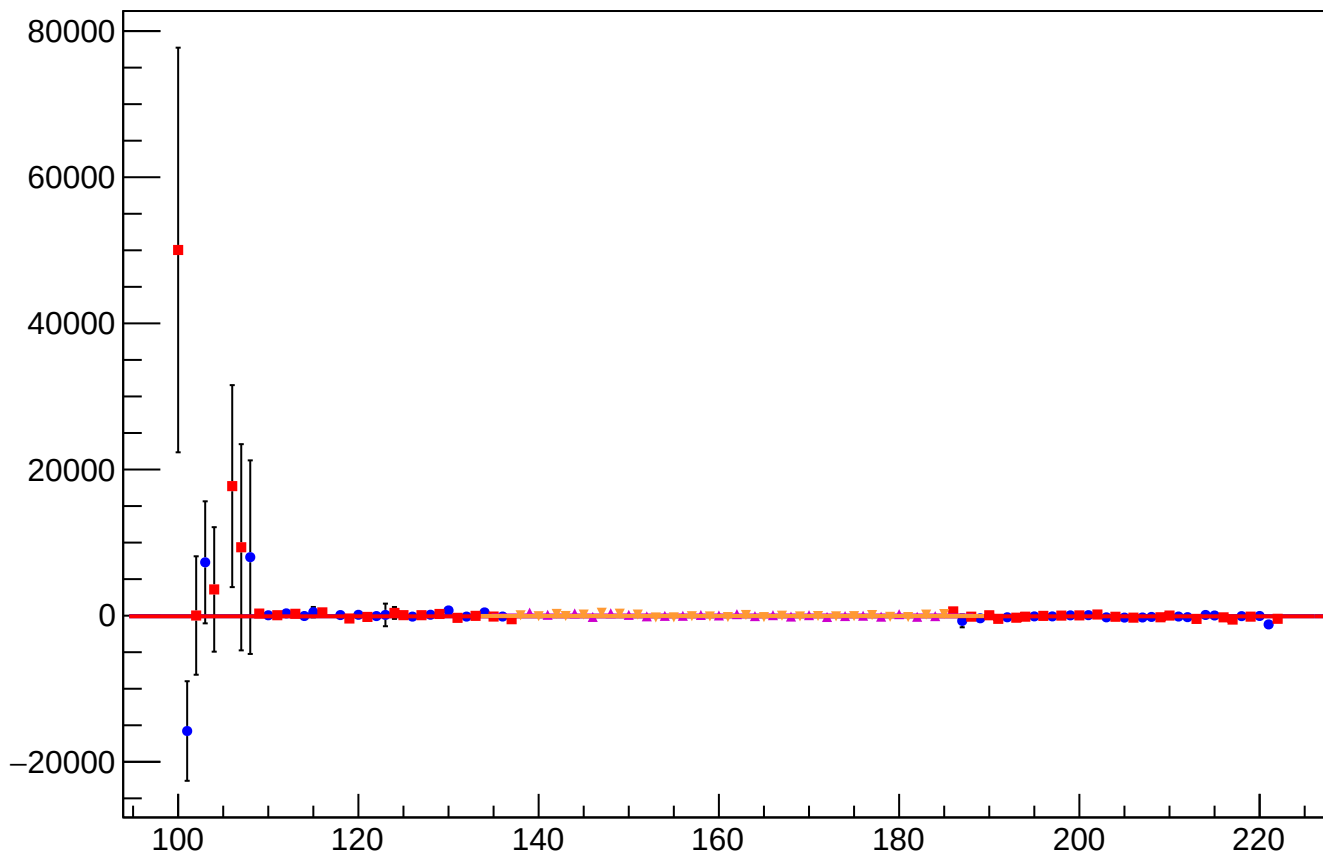
Right: 2.523+/-0.001 χ^2/NDF : 72974657.5/72

In: 2.776+/-0.002 χ^2/NDF : 69664527.0/57

Out: 2.725+/-0.001 χ^2/NDF : 73321288.1/62

All: 2.749+/-0.001 χ^2/NDF : 142986352.6/120

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -72.483+/-44.952 χ^2/NDF : 29.9/34

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -89.872+/-45.291 χ^2/NDF : 29.8/37

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

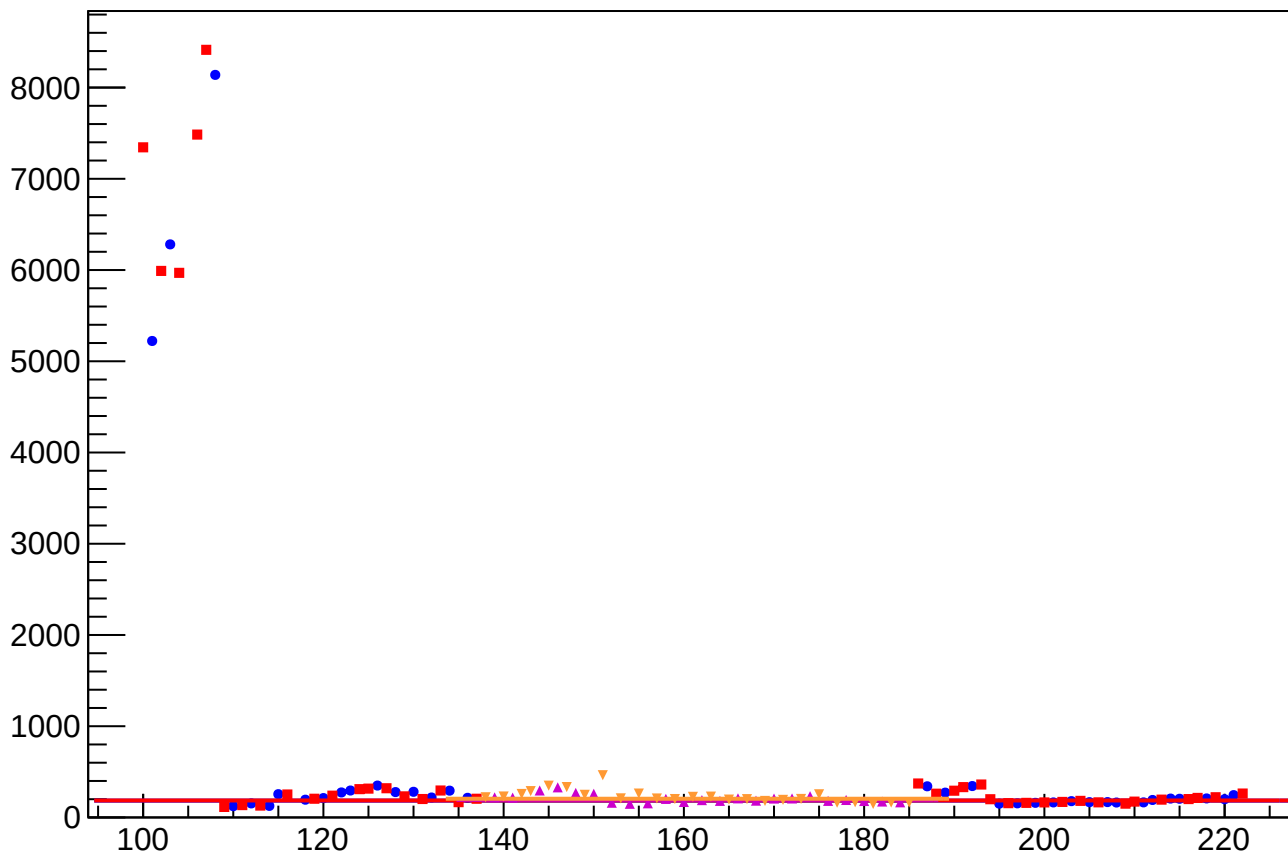
Right: -81.112+/-31.905 χ^2/NDF : 59.7/72

In: -25.537+/-32.821 χ^2/NDF : 41.9/57

Out: -66.745+/-33.438 χ^2/NDF : 39.5/62

All: -45.757+/-23.423 χ^2/NDF : 82.1/120

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.286+/-0.032 χ^2/NDF : 4663512.9/34

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 186.176+/-0.032 χ^2/NDF : 5655646.0/37

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

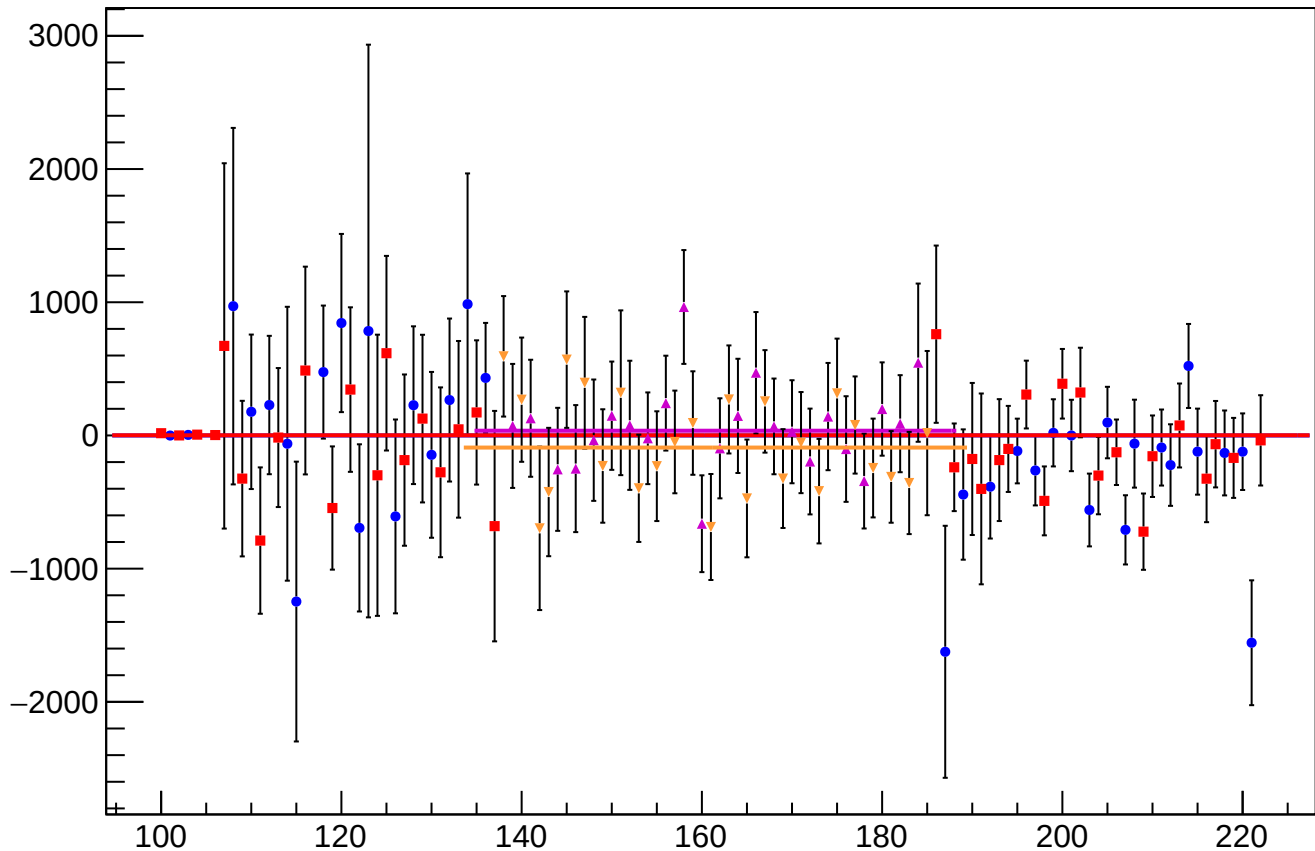
Right: 185.224+/-0.023 χ^2/NDF : 10320912.9/72

In: 188.642+/-0.023 χ^2/NDF :5883211.2/57

Out: 194.791+/-0.024 χ^2/NDF :7772205.5/62

All: 191.660+/-0.017 χ^2/NDF : 13689860.4/12

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.256 ± 1.736 $\chi^2/\text{NDF}: 42.8/34$

Left Out: -90.945 ± 84.079 $\chi^2/\text{NDF}: 16.4/24$

Right Out: 1.272 ± 1.622 $\chi^2/\text{NDF}: 29.4/37$

Left In: 35.488 ± 84.382 $\chi^2/\text{NDF}: 13.4/22$

Left: -27.956 ± 59.560 $\chi^2/\text{NDF}: 31.0/47$

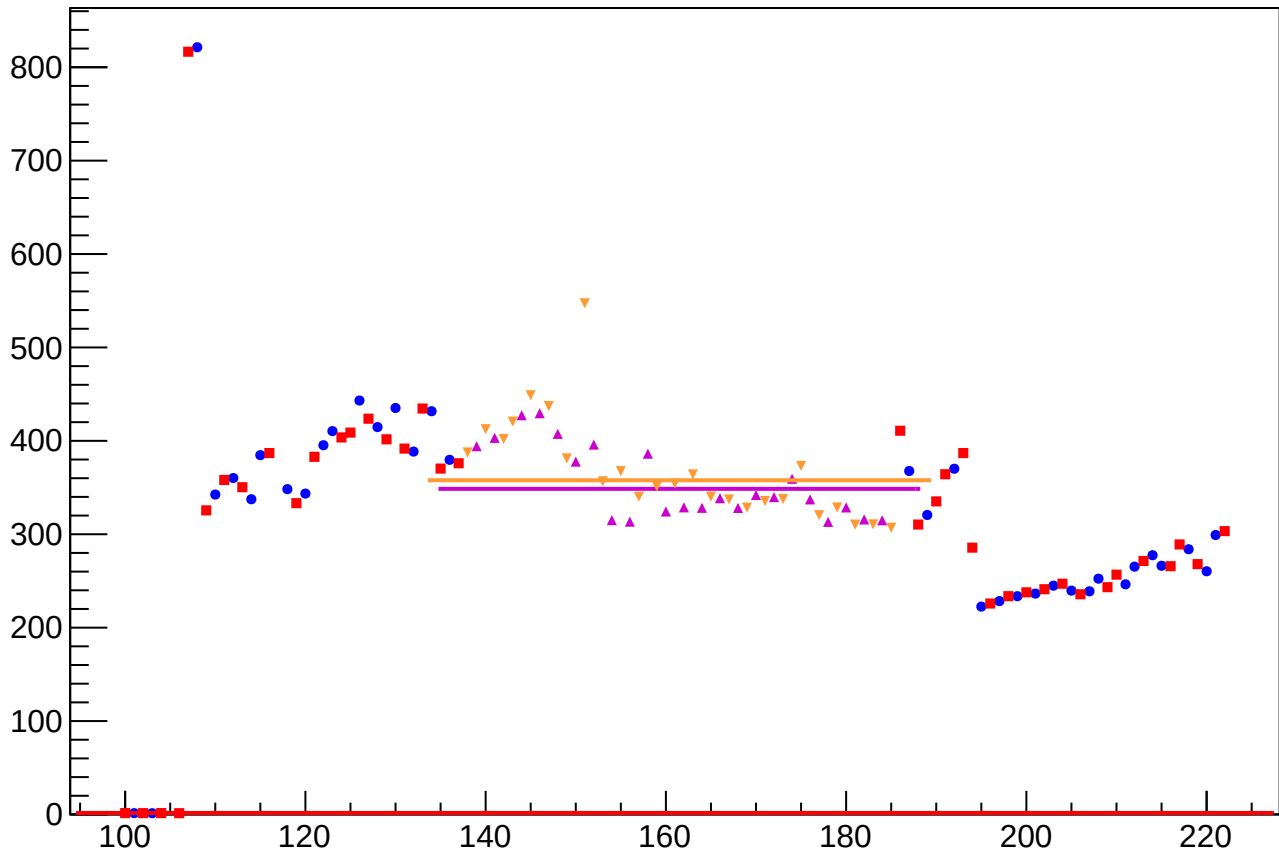
Right: 0.560 ± 1.185 $\chi^2/\text{NDF}: 72.6/72$

In: -0.241 ± 1.736 $\chi^2/\text{NDF}: 56.4/57$

Out: 1.238 ± 1.622 $\chi^2/\text{NDF}: 47.0/62$

All: 0.549 ± 1.185 $\chi^2/\text{NDF}: 103.8/120$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.599 $\pm$ 0.001 χ^2 /NDF: 35919915.3/34

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.579 $\pm$ 0.001 χ^2 /NDF: 36900490.6/37

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

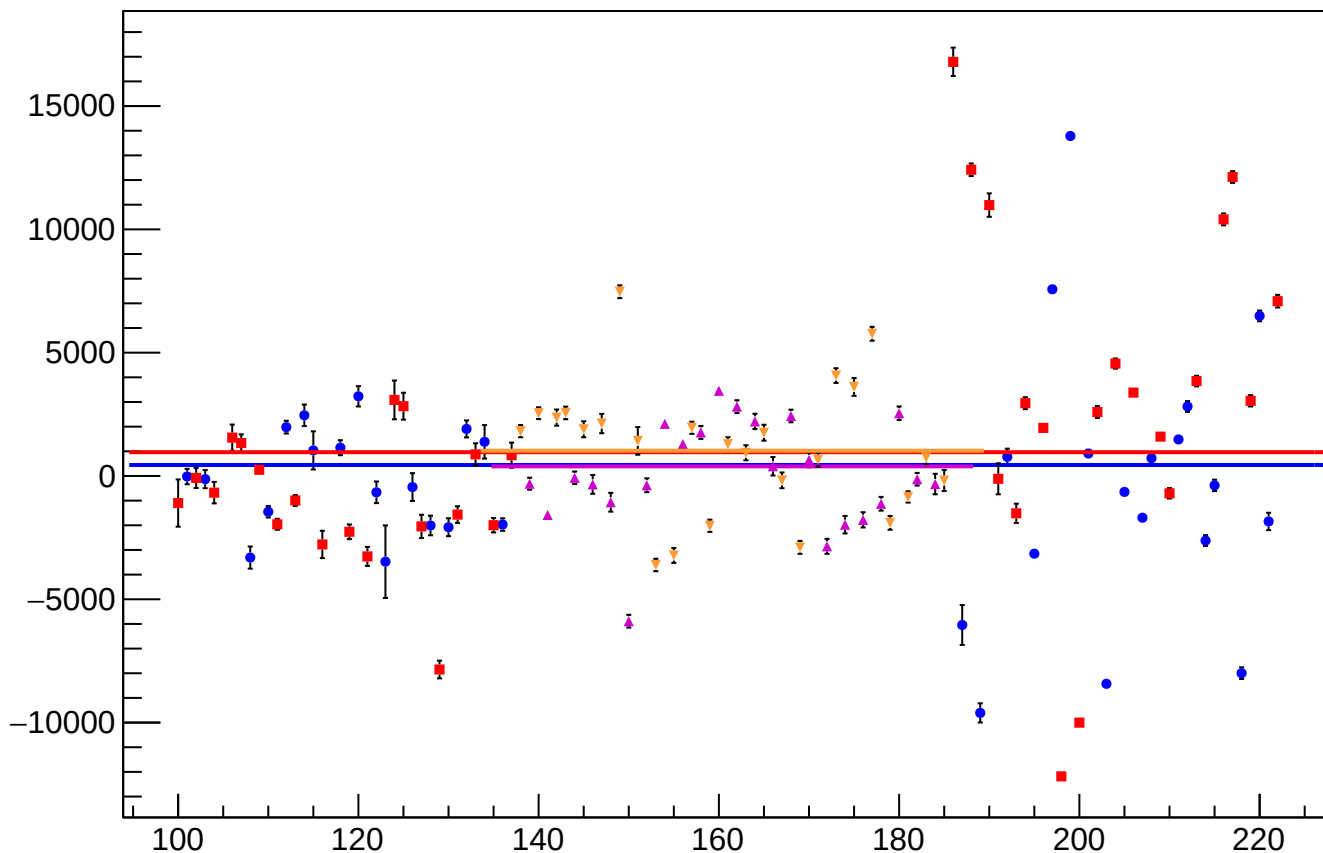
Right: 1.588 $\pm$ 0.001 χ^2 /NDF: 72820559.2/72

In: 1.746 $\pm$ 0.001 χ^2 /NDF: 70091301.6/57

Out: 1.711 $\pm$ 0.001 χ^2 /NDF: 73335402.8/62

All: 1.728 $\pm$ 0.001 χ^2 /NDF: 143427140.5/120

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 445.390+/-44.434 χ^2/NDF : 13453.7/34

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 964.035+/-43.910 χ^2/NDF : 18587.0/37

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

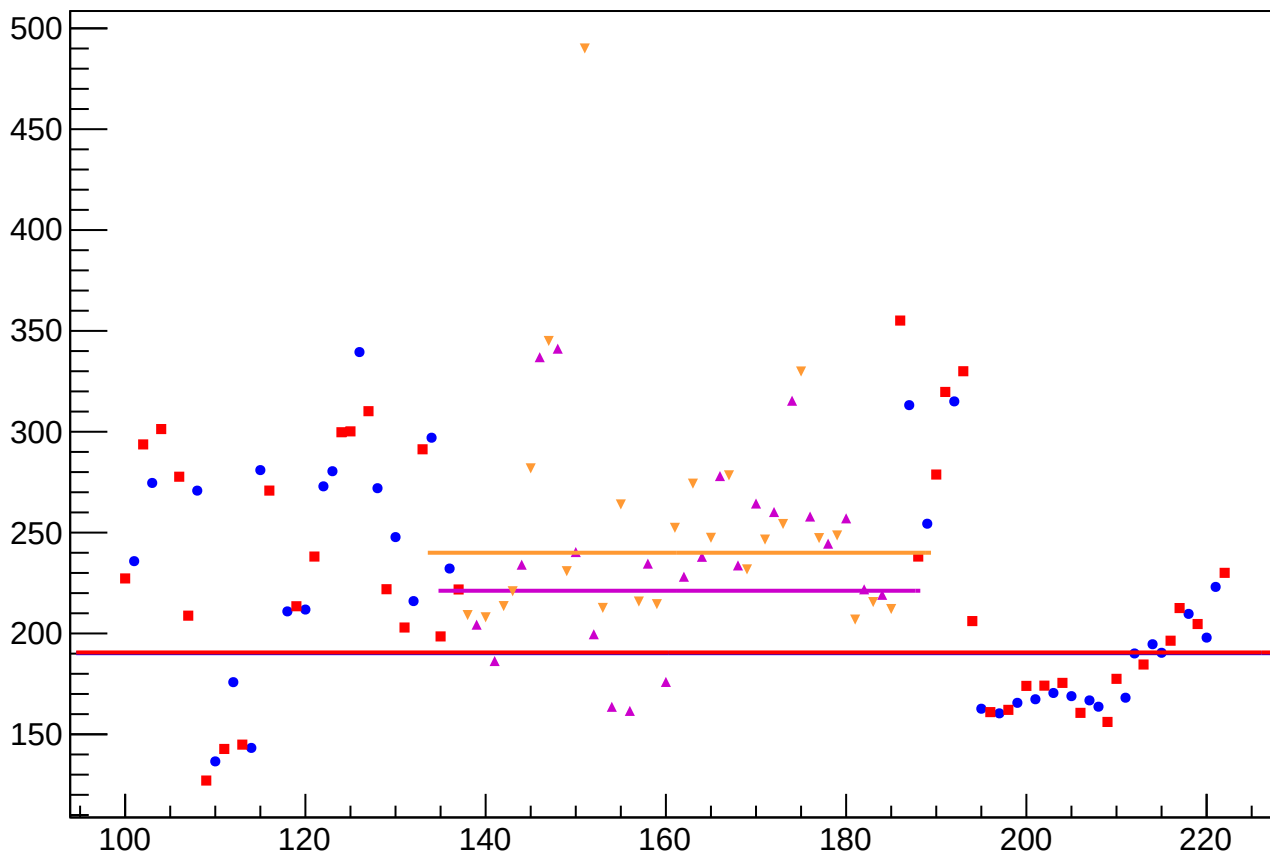
Right: 707.789+/-31.232 χ^2/NDF : 32109.6/72

In: 423.576+/-34.546 χ^2/NDF : 15039.2/57

Out: 985.994+/-34.861 χ^2/NDF : 20897.0/62

All: 702.232+/-24.539 χ^2/NDF : 36067.5/120

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 190.226 ± 0.031 $\chi^2/\text{NDF}: 1580568.1/34$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 190.581 ± 0.031 $\chi^2/\text{NDF}: 2202811.4/37$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

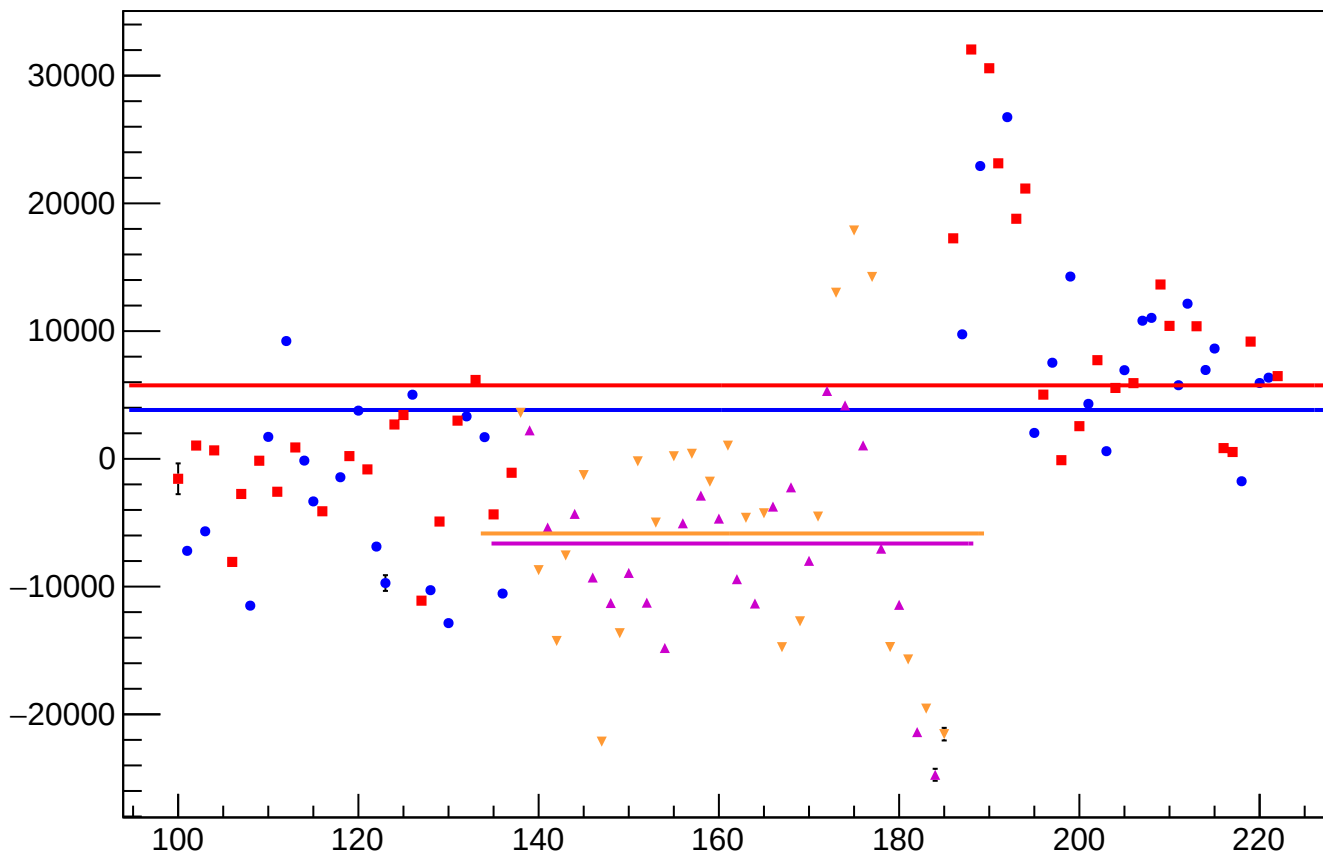
Right: 190.406 ± 0.022 $\chi^2/\text{NDF}: 3783444.2/72$

In: 202.466 ± 0.024 $\chi^2/\text{NDF}: 3306792.1/57$

Out: 208.857 ± 0.025 $\chi^2/\text{NDF}: 4142445.8/62$

All: 205.632 ± 0.017 $\chi^2/\text{NDF}: 7483146.1/120$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3825.057+/-32.711 χ^2/NDF : 85259.2/34

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 5752.939+/-31.397 χ^2/NDF : 105951.9/37

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

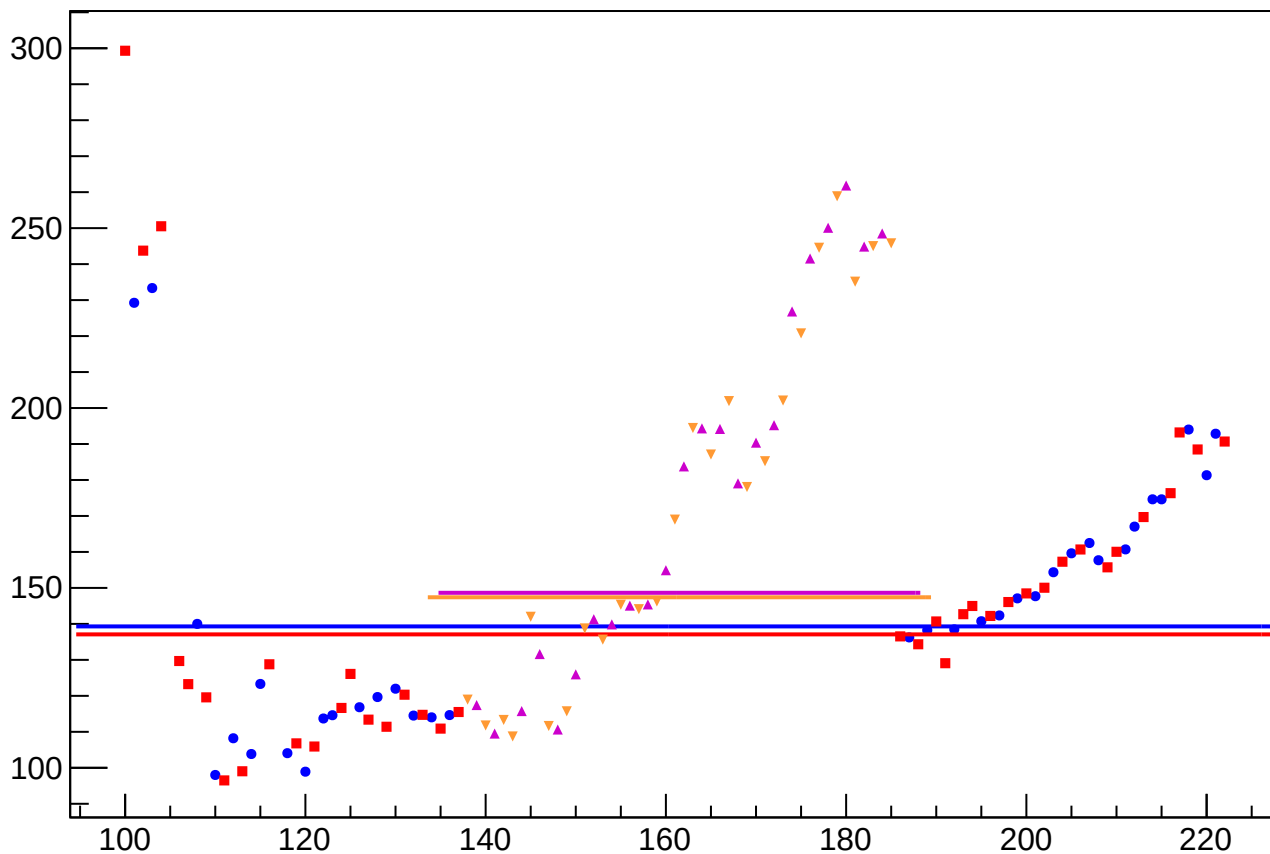
Right: 4828.485+/-22.651 χ^2/NDF : 193019.1/72

In: -738.656+/-24.553 χ^2/NDF : 151583.5/57

Out: 719.709+/-23.619 χ^2/NDF : 228549.5/62

All: 18.803+/-17.022 χ^2/NDF : 381965.3/120

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 139.300 $\pm$ 0.023 χ^2 /NDF: 1578454.5/34

Left Out: 147.396 $\pm$ 0.025 χ^2 /NDF: 2517097.1/24

Right Out: 137.085 $\pm$ 0.022 χ^2 /NDF: 1714076.8/37

Left In: 148.642 $\pm$ 0.026 χ^2 /NDF: 2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2 /NDF: 4933793.6/47

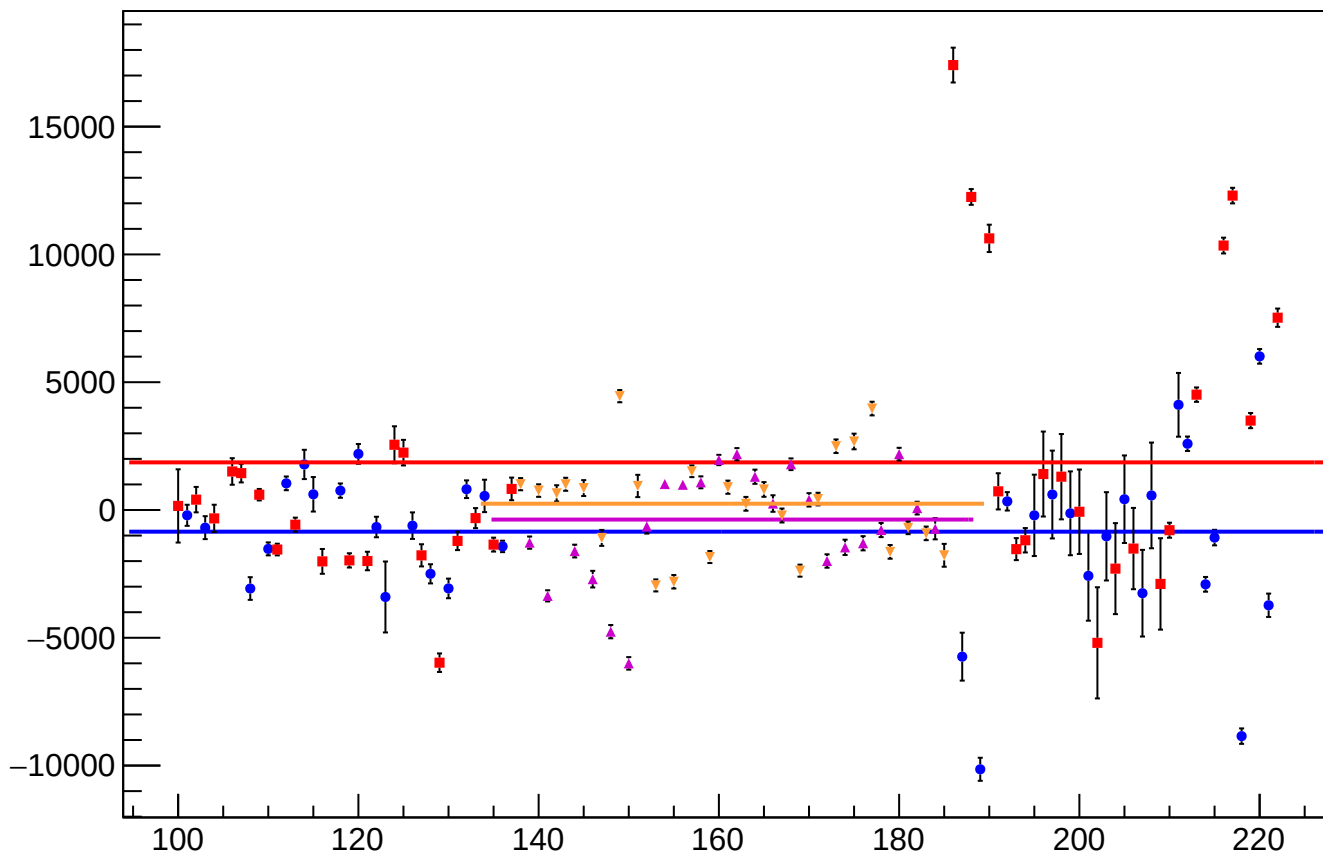
Right: 138.147 $\pm$ 0.016 χ^2 /NDF: 3297307.0/72

In: 143.379 $\pm$ 0.017 χ^2 /NDF: 4065199.4/57

Out: 141.561 $\pm$ 0.017 χ^2 /NDF: 4324816.6/62

All: 142.435 $\pm$ 0.012 χ^2 /NDF: 8395709.4/120

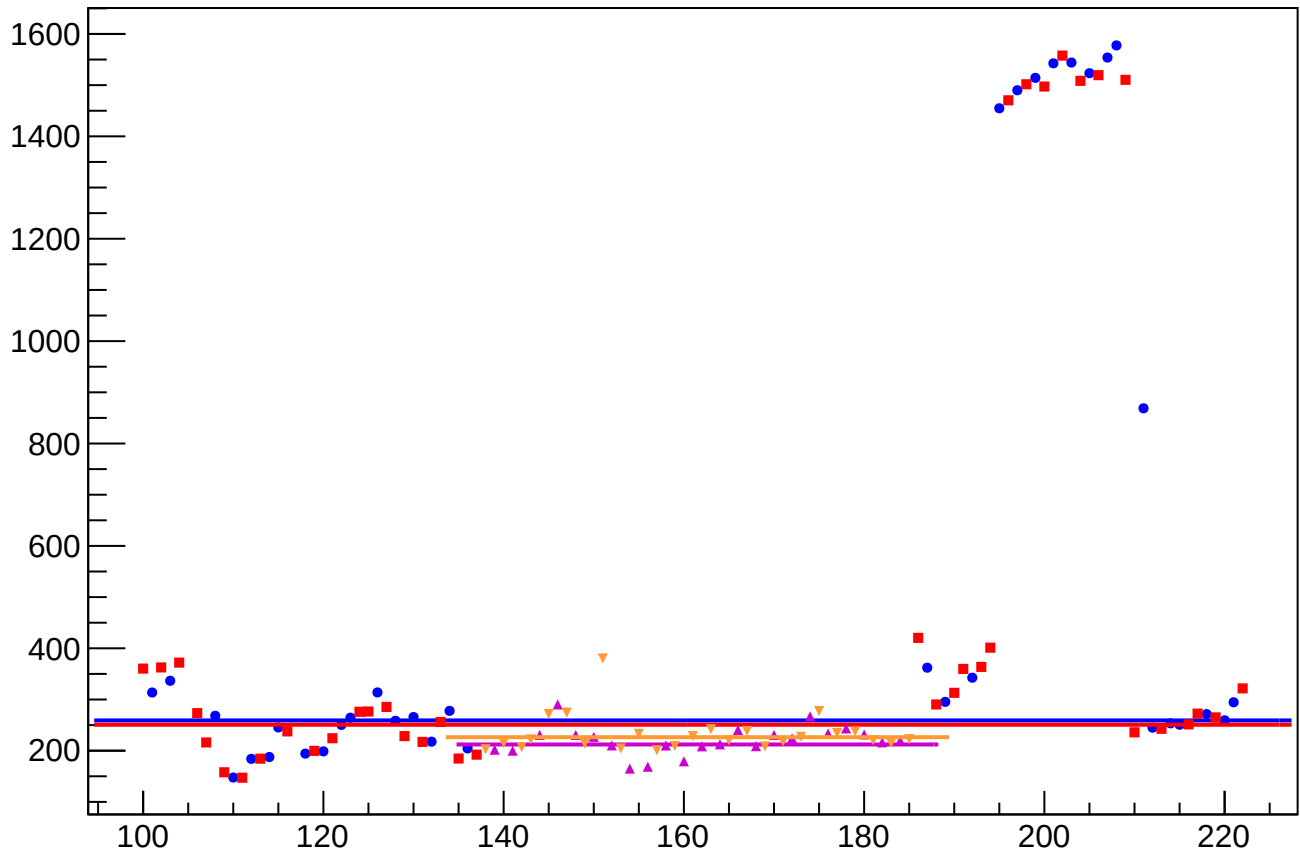
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -848.520 ± 69.767 $\chi^2/\text{NDF}: 2293.4/34$
 Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$
 Right Out: 1863.233 ± 64.216 $\chi^2/\text{NDF}: 5949.8/37$
 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: 619.504 ± 47.248 $\chi^2/\text{NDF}: 9061.1/72$
 In: -543.314 ± 41.638 $\chi^2/\text{NDF}: 4121.4/57$
 Out: 908.550 ± 41.100 $\chi^2/\text{NDF}: 7679.0/62$
 All: 192.043 ± 29.250 $\chi^2/\text{NDF}: 12416.2/120$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 259.106 $\pm$ 0.049 χ^2 /NDF: 10214470.8/34

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 250.674 $\pm$ 0.045 χ^2 /NDF: 9375229.4/37

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

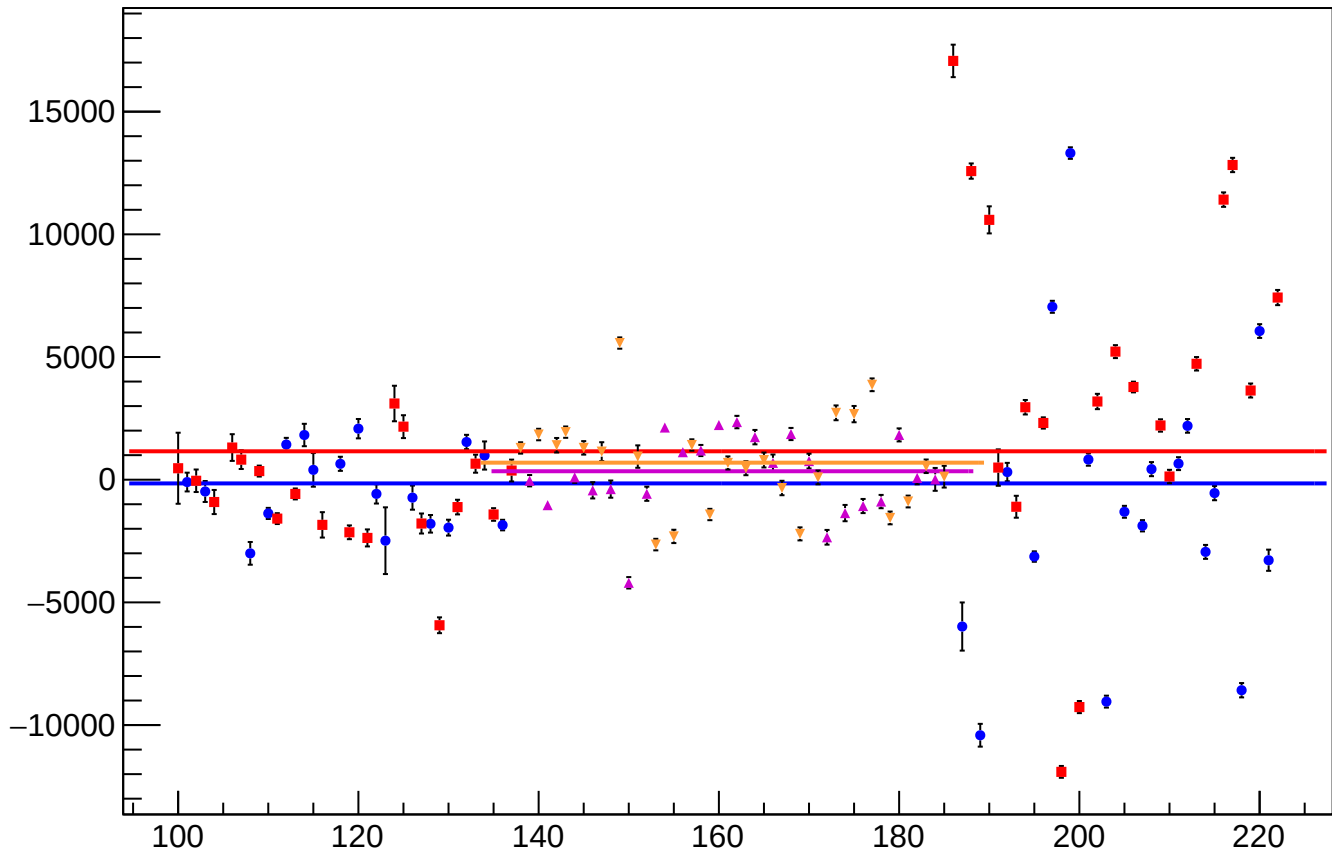
Right: 254.541 $\pm$ 0.033 χ^2 /NDF: 19605513.6/72

In: 228.872 $\pm$ 0.029 χ^2 /NDF: 11389570.7/57

Out: 236.329 $\pm$ 0.029 χ^2 /NDF: 10066053.0/62

All: 232.649 $\pm$ 0.021 χ^2 /NDF: 21488121.0/12

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -151.269 ± 51.872 $\chi^2/\text{NDF}: 8163.7/34$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 1157.586 ± 50.883 $\chi^2/\text{NDF}: 12167.9/37$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

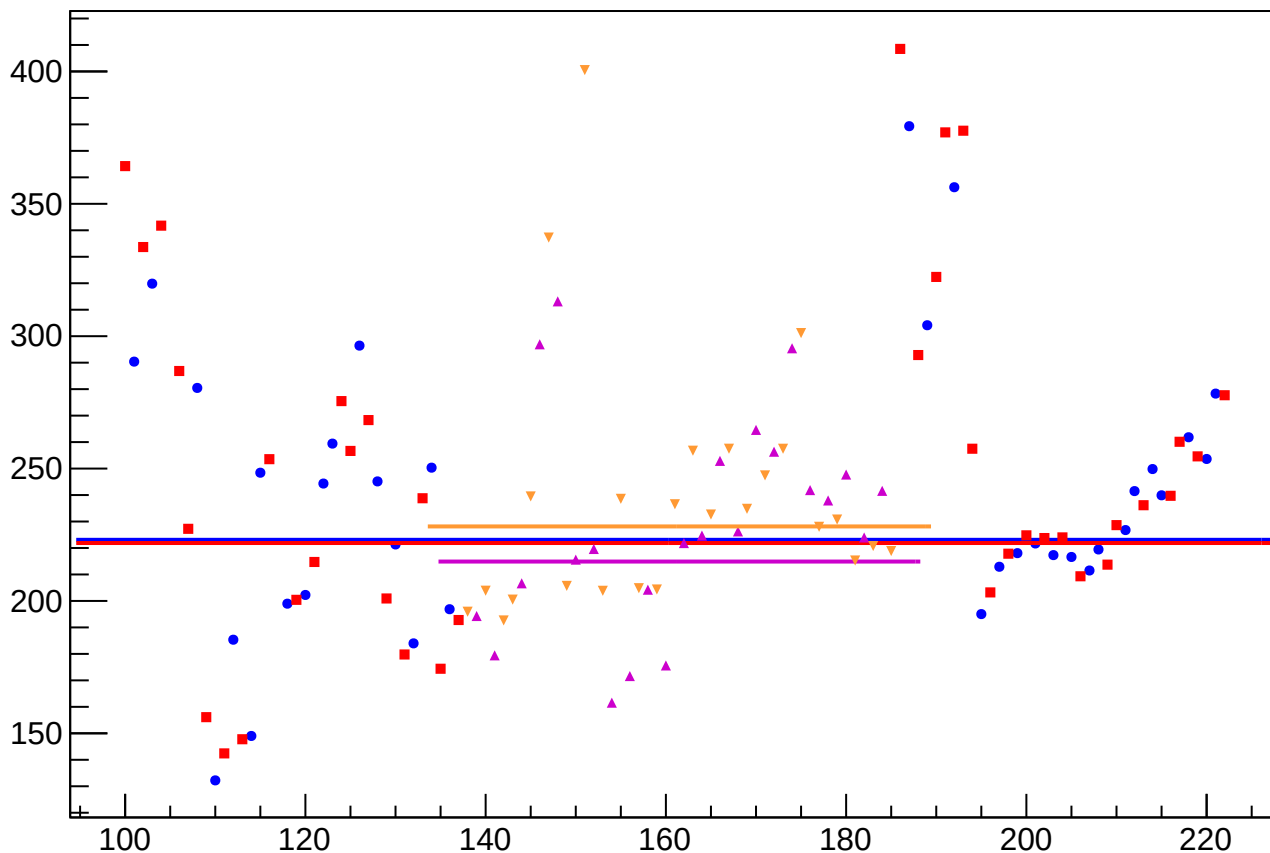
Right: 515.758 ± 36.324 $\chi^2/\text{NDF}: 20656.1/72$

In: 91.538 ± 37.056 $\chi^2/\text{NDF}: 9193.5/57$

Out: 940.763 ± 37.112 $\chi^2/\text{NDF}: 13628.8/62$

All: 515.508 ± 26.222 $\chi^2/\text{NDF}: 23084.5/120$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 223.089 ± 0.037 $\chi^2/\text{NDF}: 1296338.6/34$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 221.879 ± 0.036 $\chi^2/\text{NDF}: 1984778.5/37$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

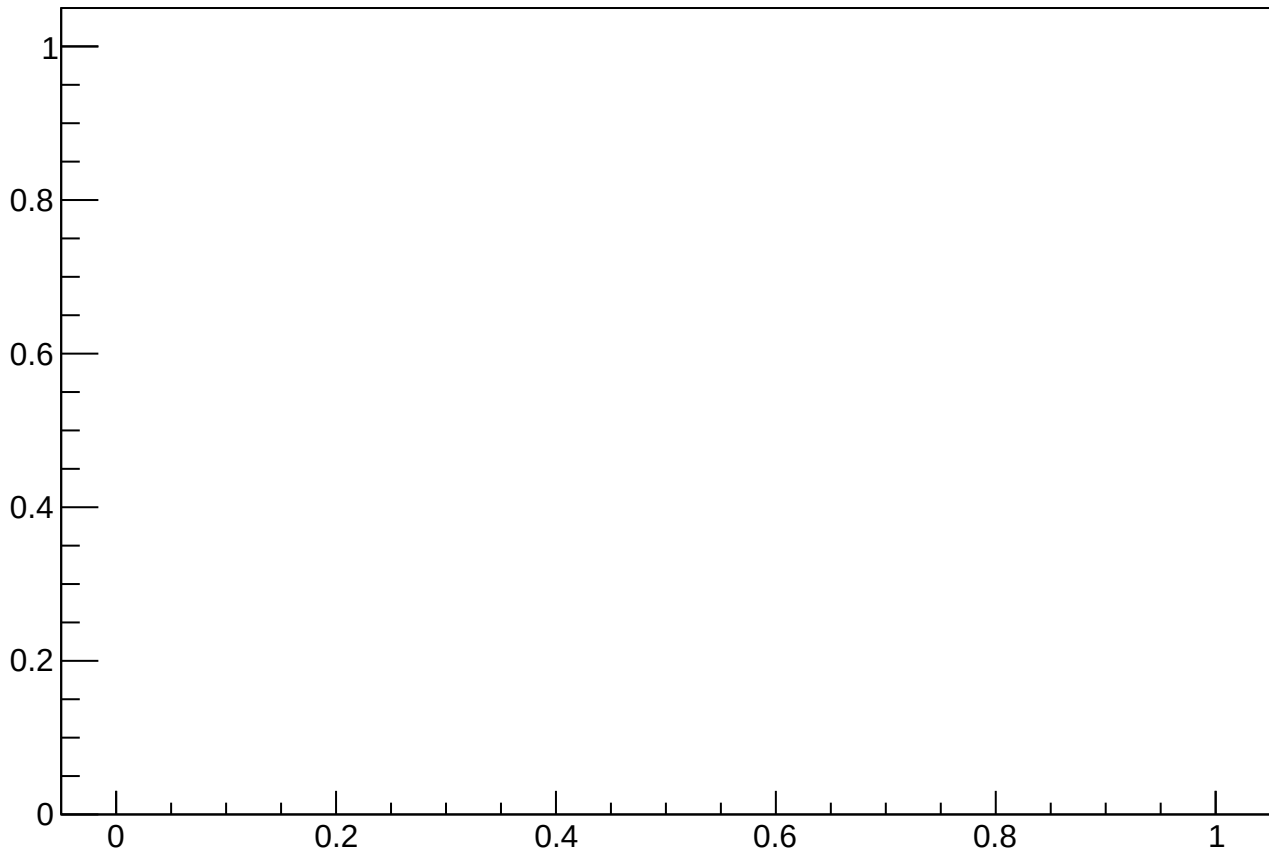
Right: 222.472 ± 0.026 $\chi^2/\text{NDF}: 3281671.4/72$

In: 219.068 ± 0.026 $\chi^2/\text{NDF}: 2358385.1/57$

Out: 224.811 ± 0.026 $\chi^2/\text{NDF}: 2827367.2/62$

All: 221.935 ± 0.019 $\chi^2/\text{NDF}: 5209735.3/120$

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

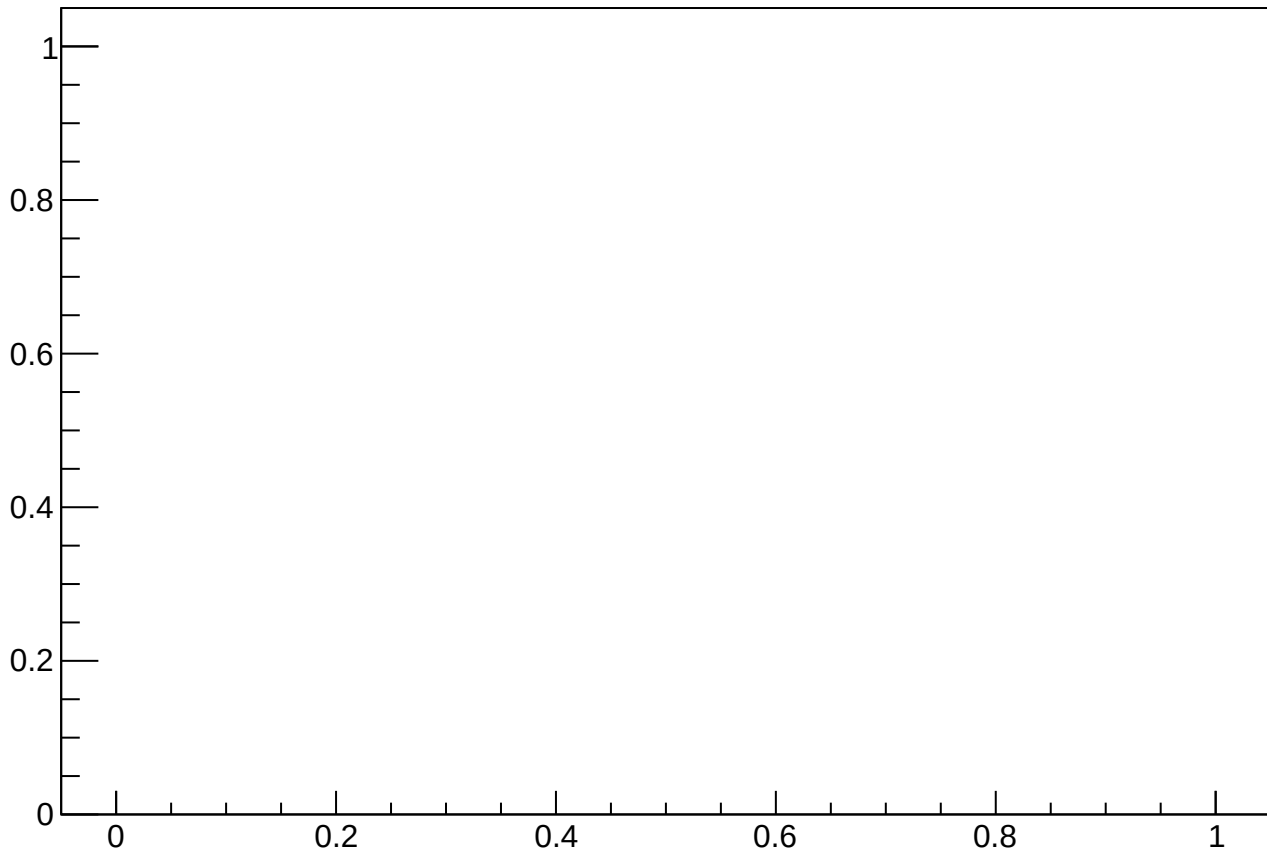
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

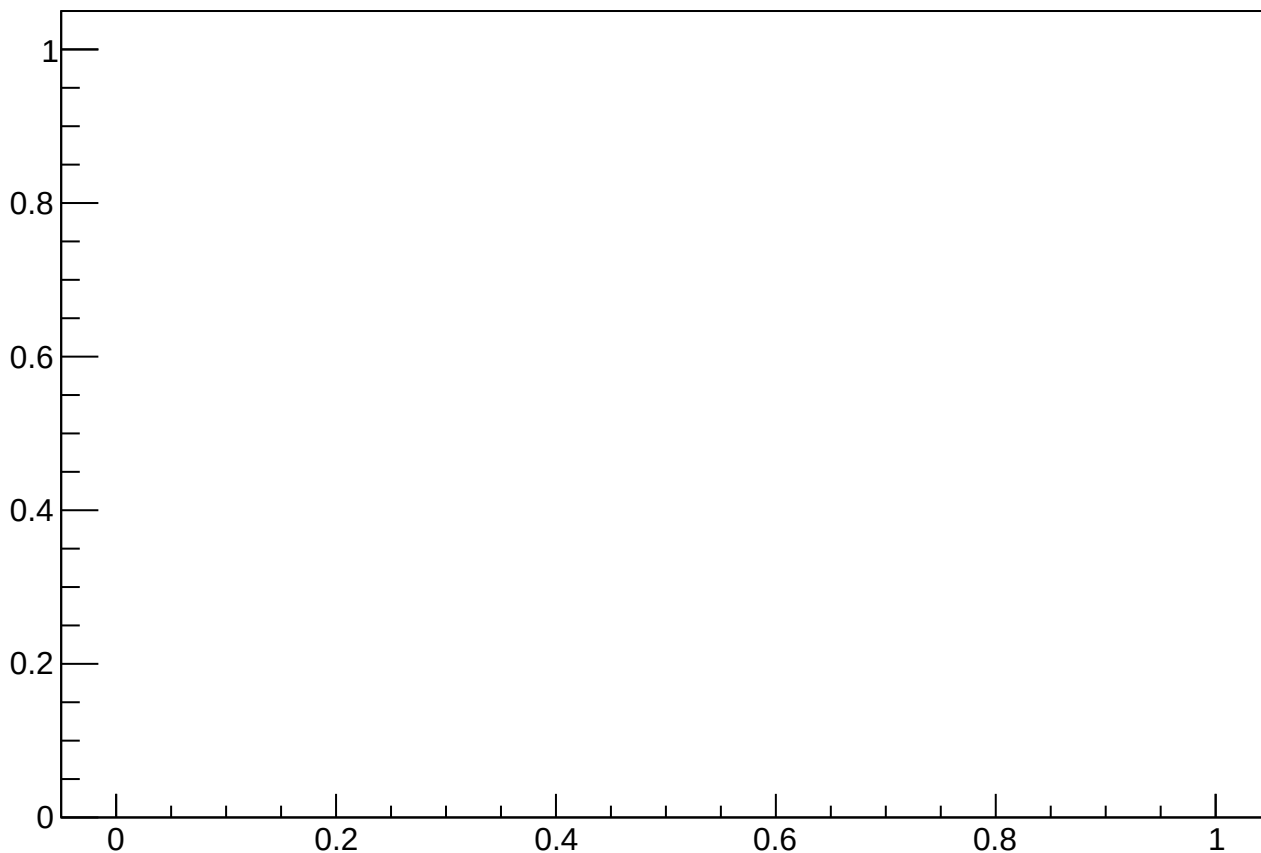
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

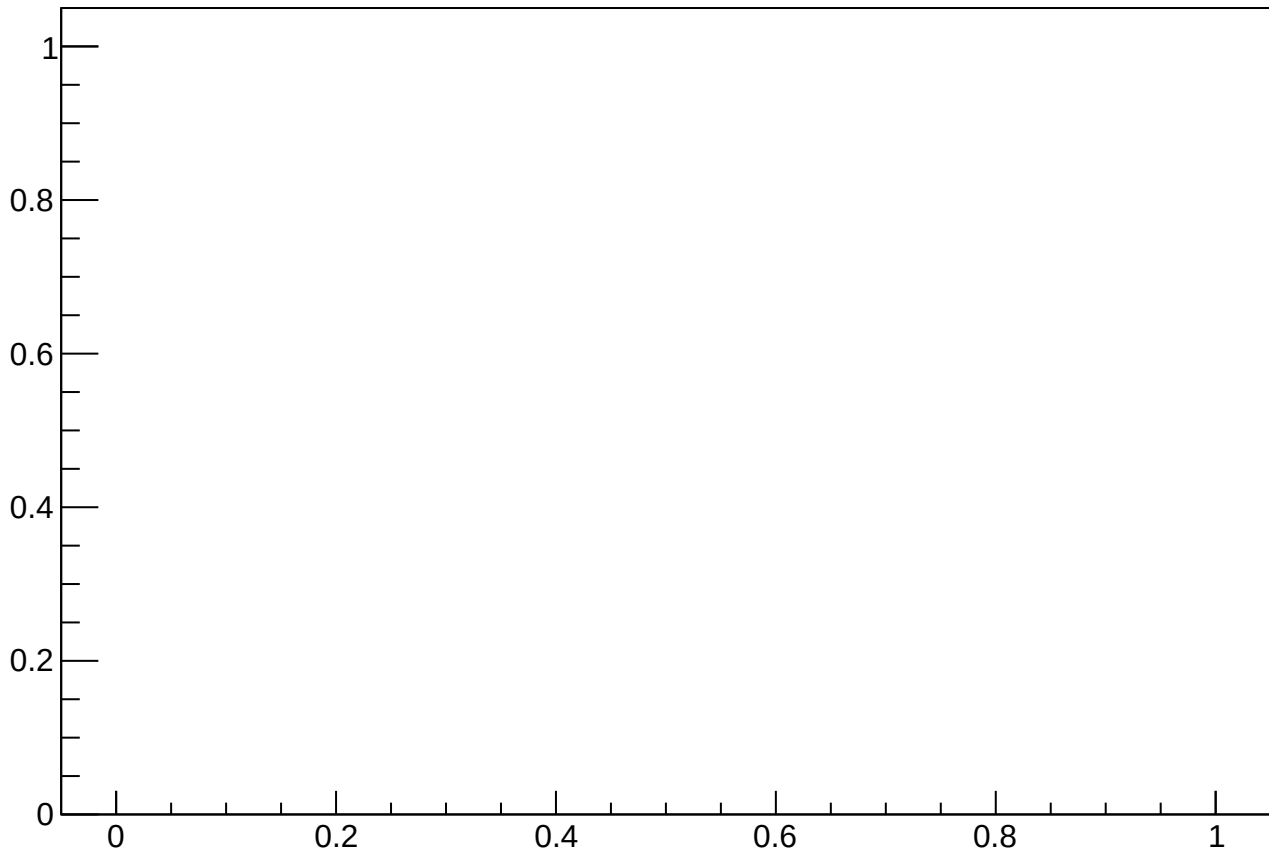
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

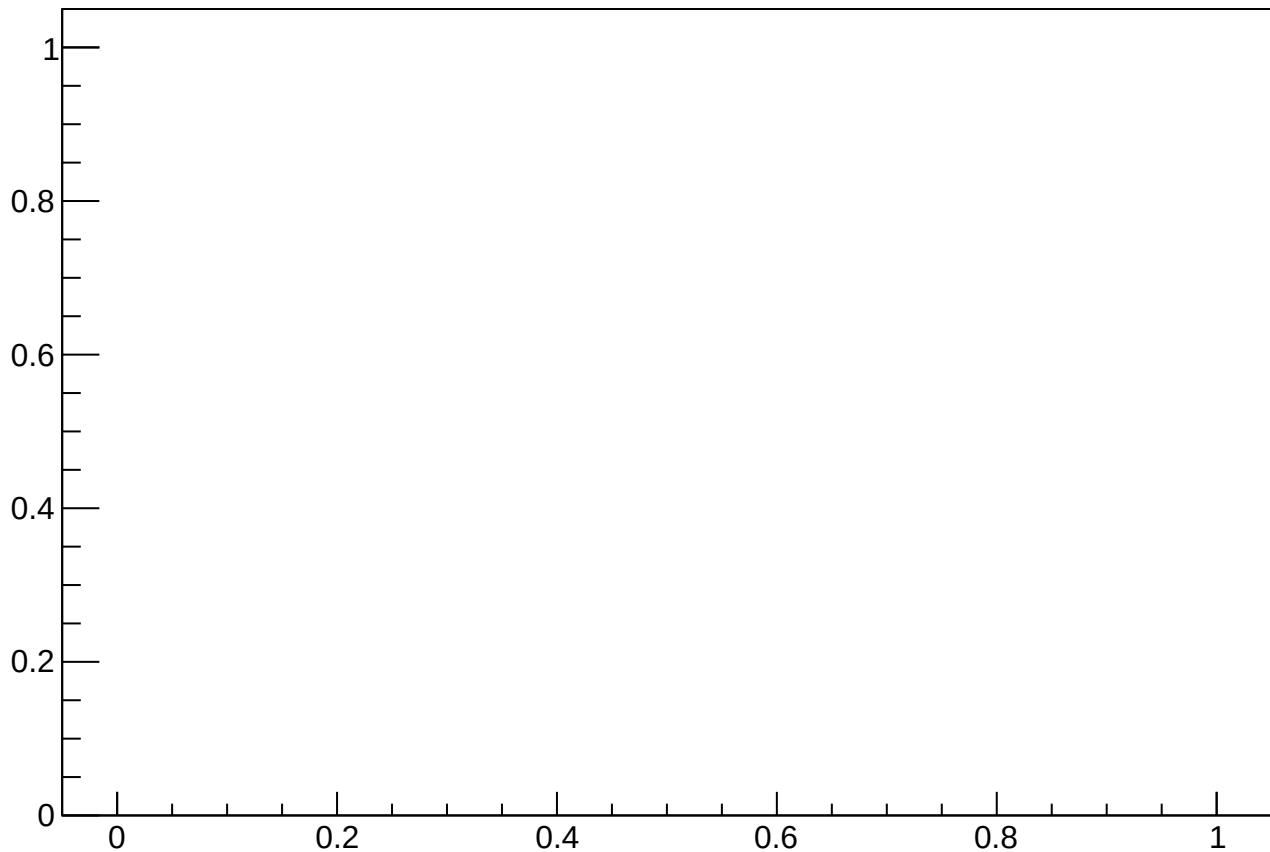
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

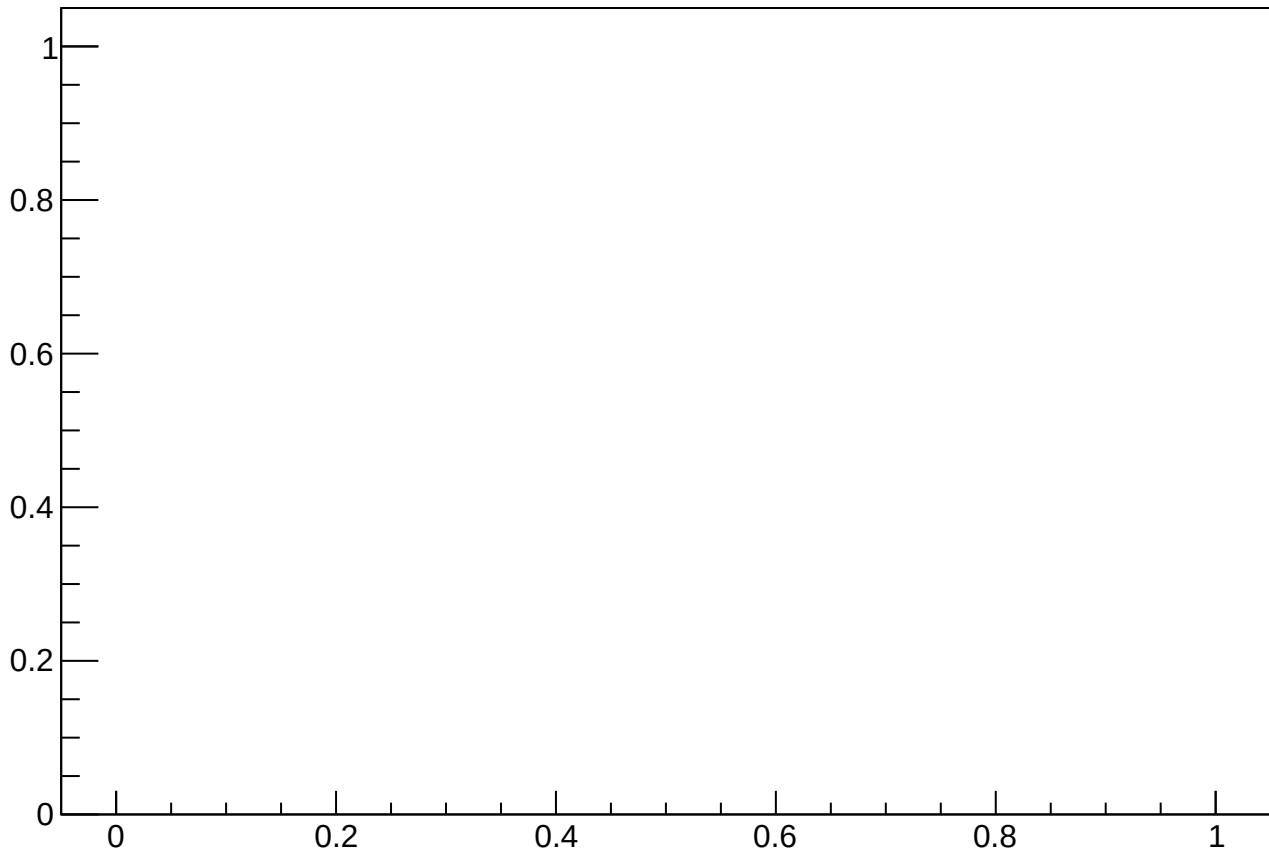
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

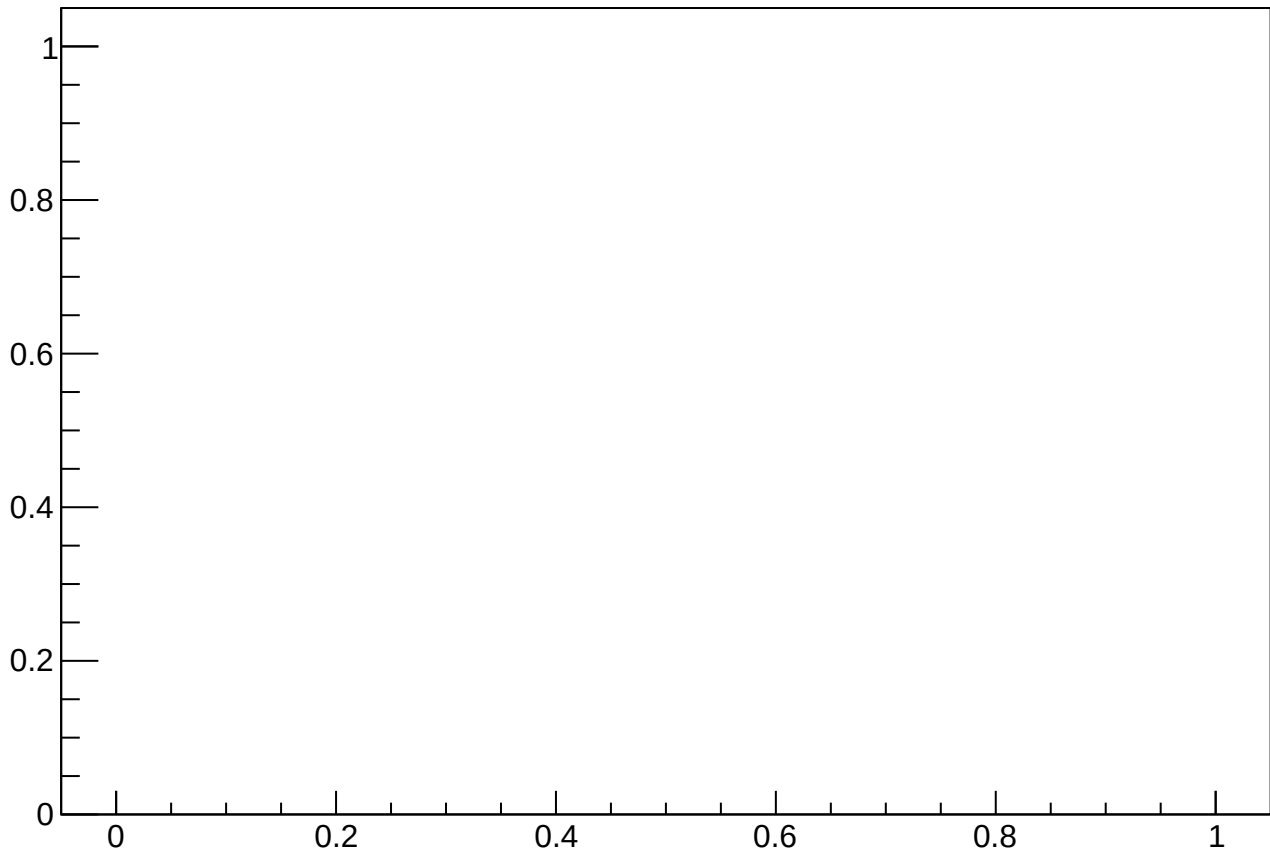
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

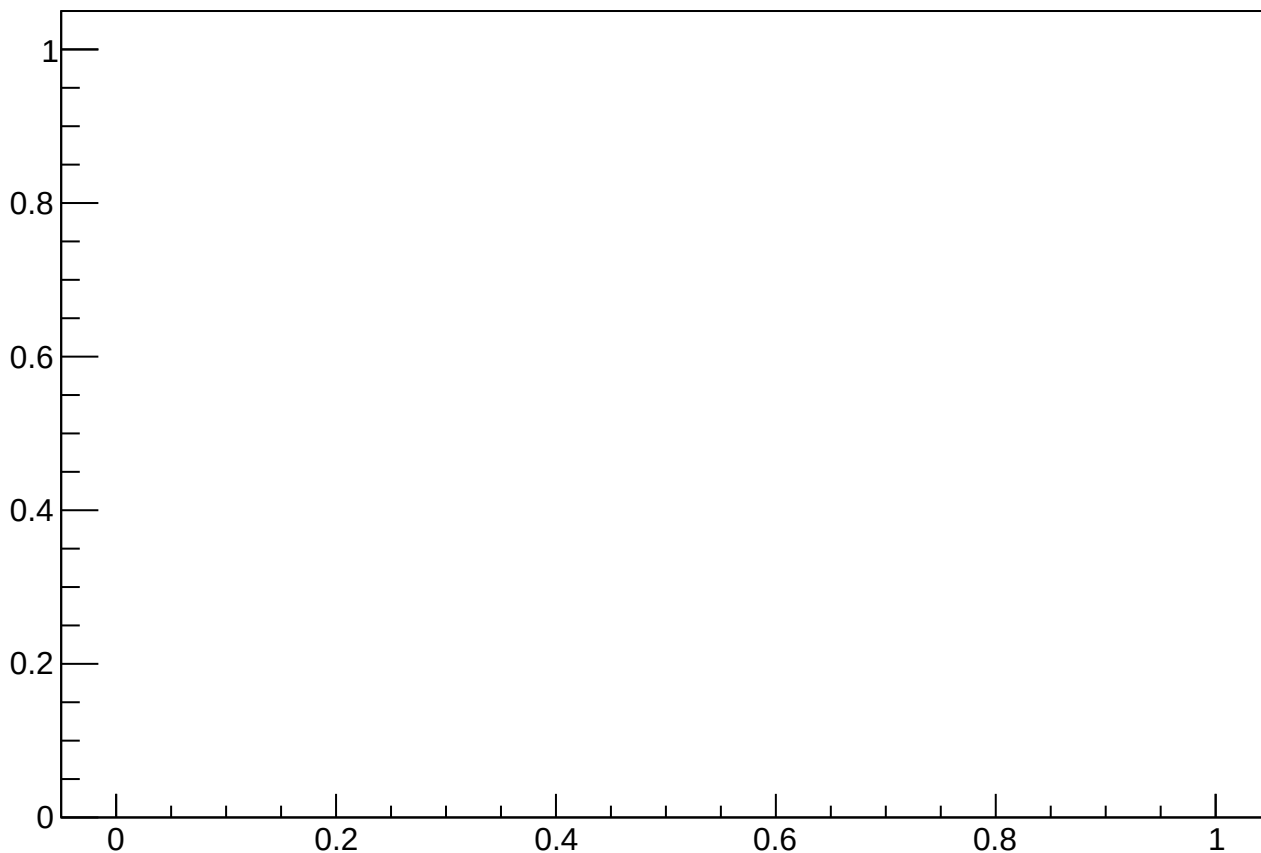
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

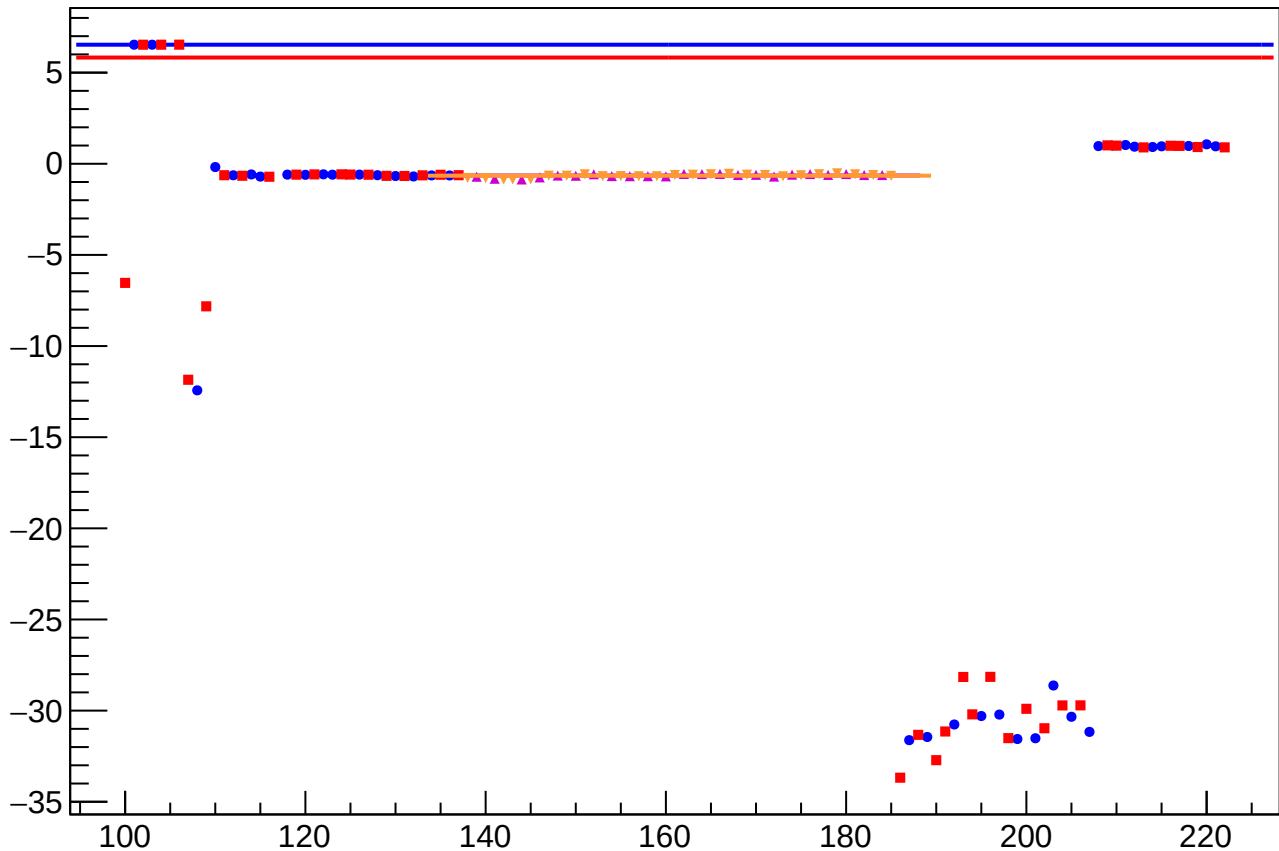
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 141991600808.3/34

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755972746312692.4/37

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

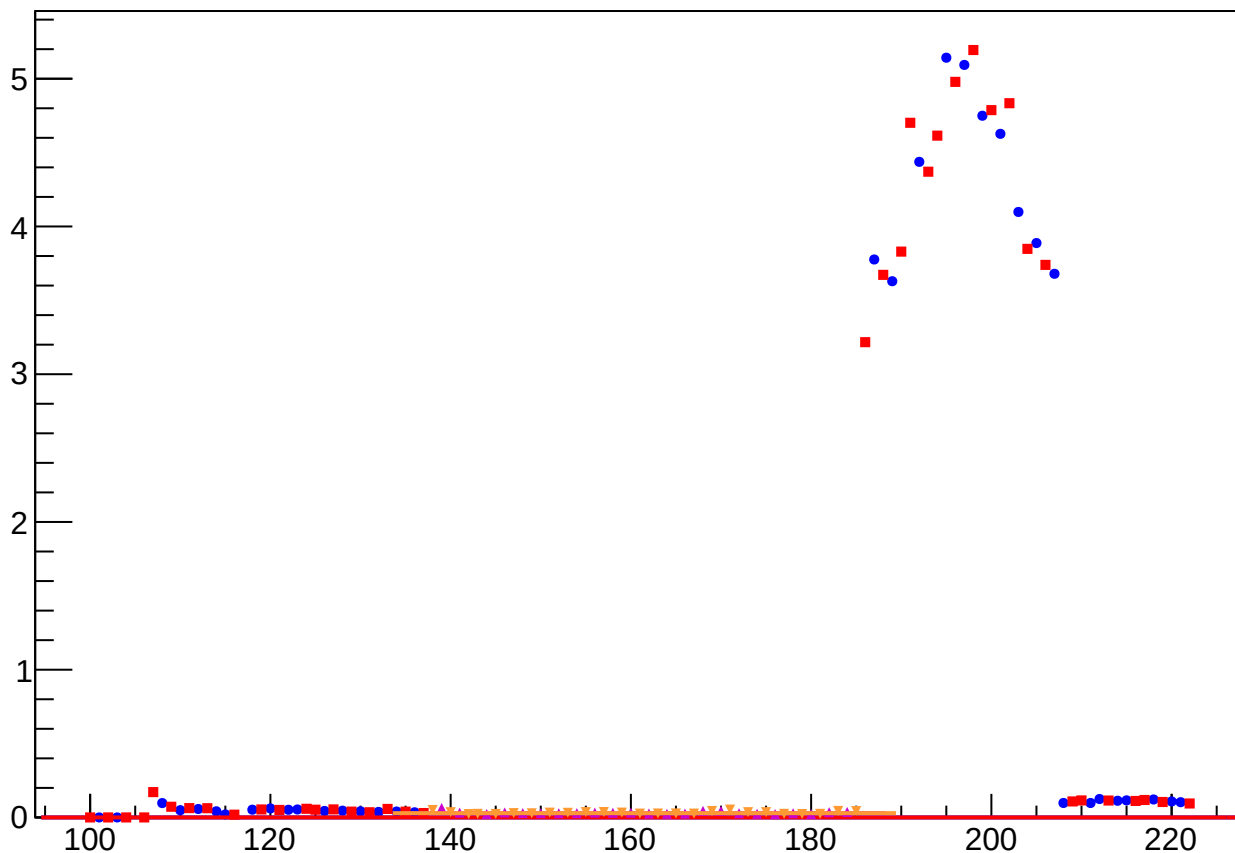
Right: 6.155+/-0.000 χ^2/NDF : 776118306723893.5/47

In: 6.530+/-0.000 χ^2/NDF : 976102461344.1/57

Out: 5.826+/-0.000 χ^2/NDF : 756683757865149.8/67

All: 6.153+/-0.000 χ^2/NDF : 77765172585170.0/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33661723.5/34

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35060022.9/37

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

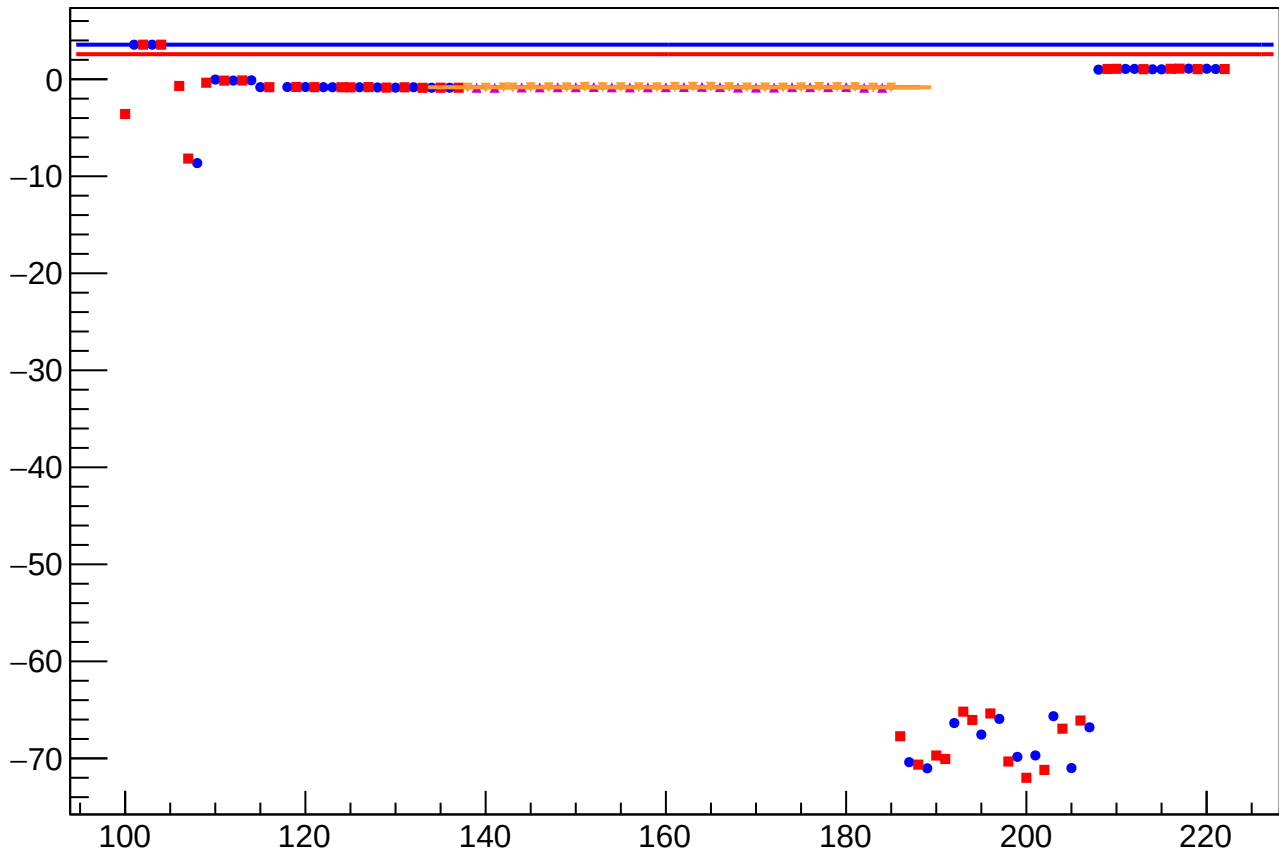
Right: 0.000+/-0.000 χ^2/NDF : 68722028.7/72

In: 0.000+/-0.000 χ^2/NDF :61838285.8/57

Out: 0.000+/-0.000 χ^2/NDF :65026990.6/62

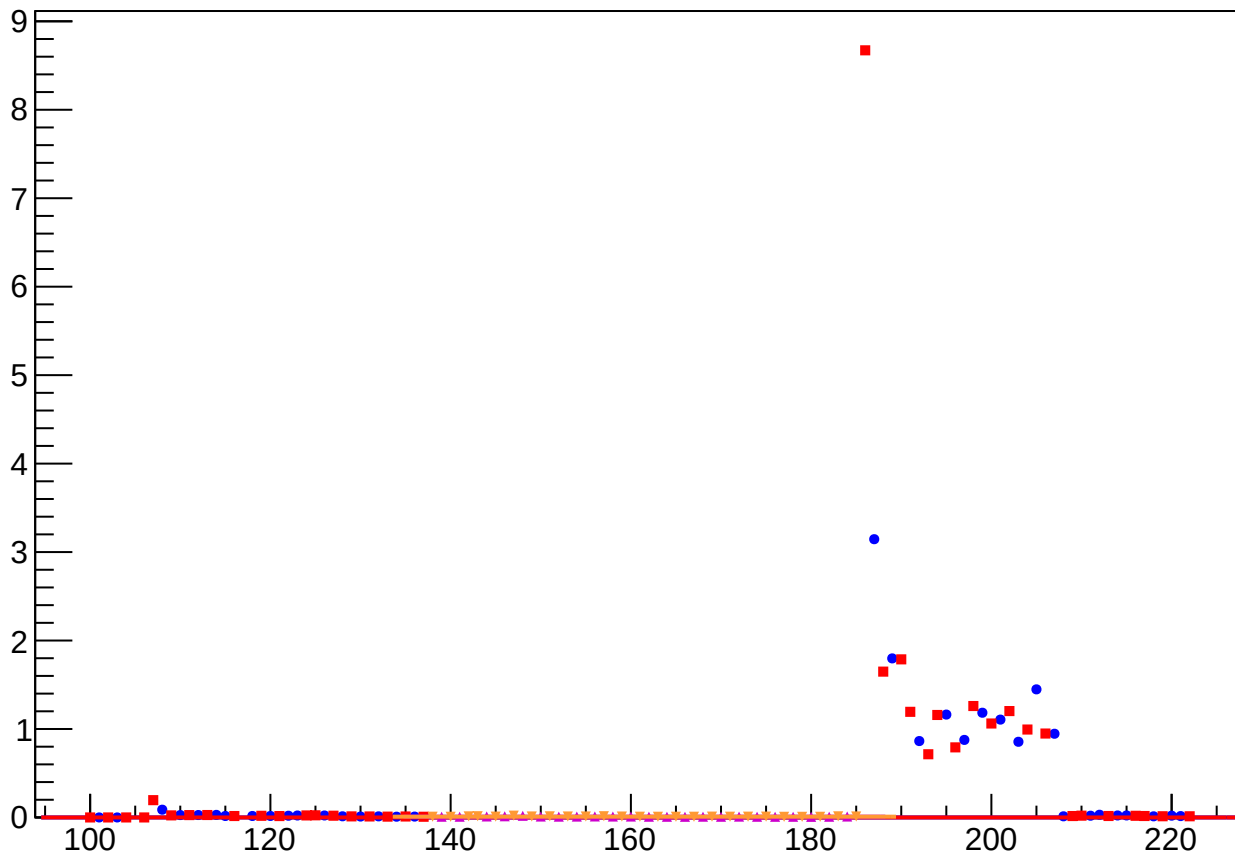
All: 0.000+/-0.000 χ^2/NDF : 126865747.1/120

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 602273715165.7/34	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 : 1382443866375714.0
Right Out: 2.583+/-0.000	χ^2/NDF : 1253575319278724.8/37	In: 3.560+/-0.000	χ^2/NDF : 4282578118403.6/57
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255806085340184.0
		All: 3.037+/-0.000	χ^2/NDF : 13881680485316.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30574455.5/34

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32554110.9/37

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

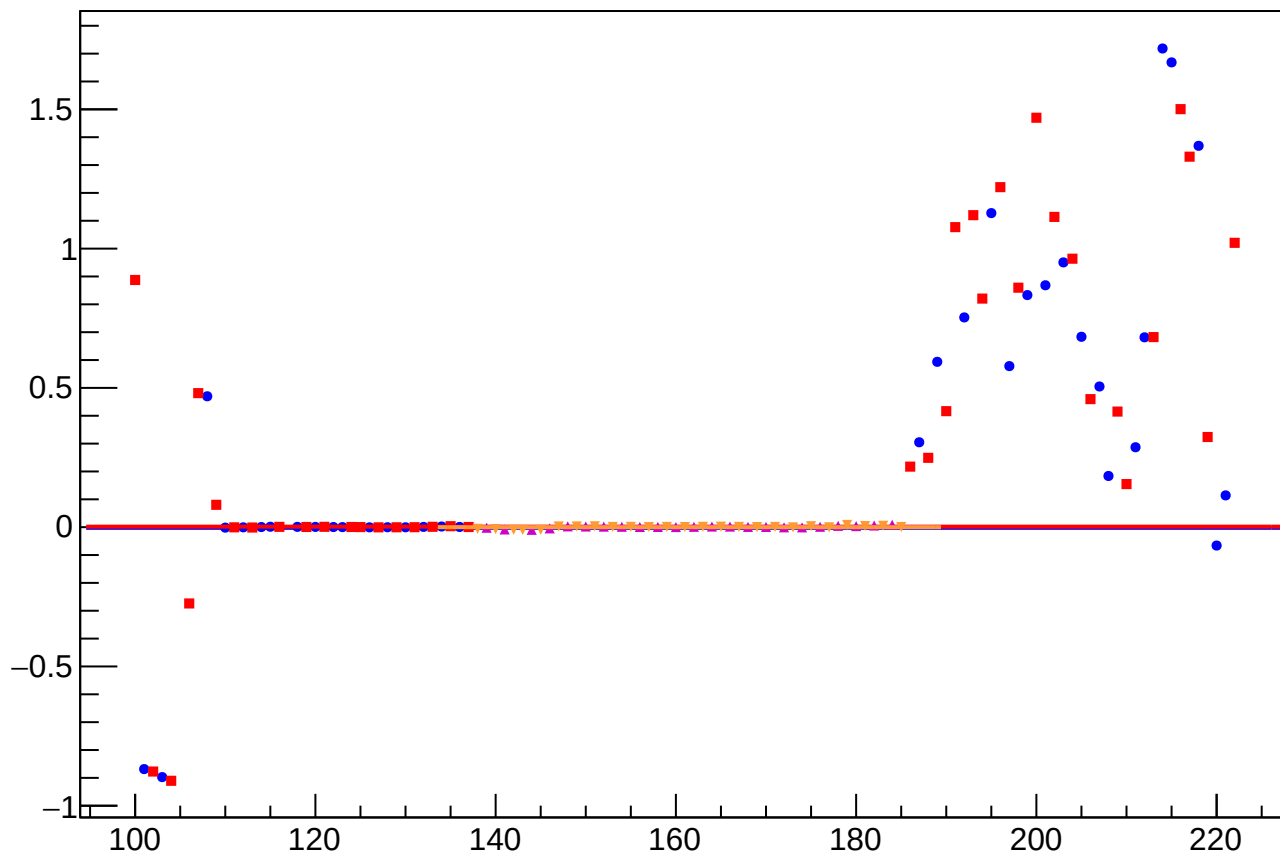
Right: 0.000+/-0.000 χ^2/NDF : 63128828.8/72

In: 0.000+/-0.000 χ^2/NDF :60364762.7/57

Out: 0.000+/-0.000 χ^2/NDF :64065099.1/62

All: 0.000+/-0.000 χ^2/NDF : 124430620.7/120

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9797445691.2/34

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3044395247.2/37

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12855988799.2/72

In: -0.000+/-0.000

χ^2/NDF : 9910349323.4/57

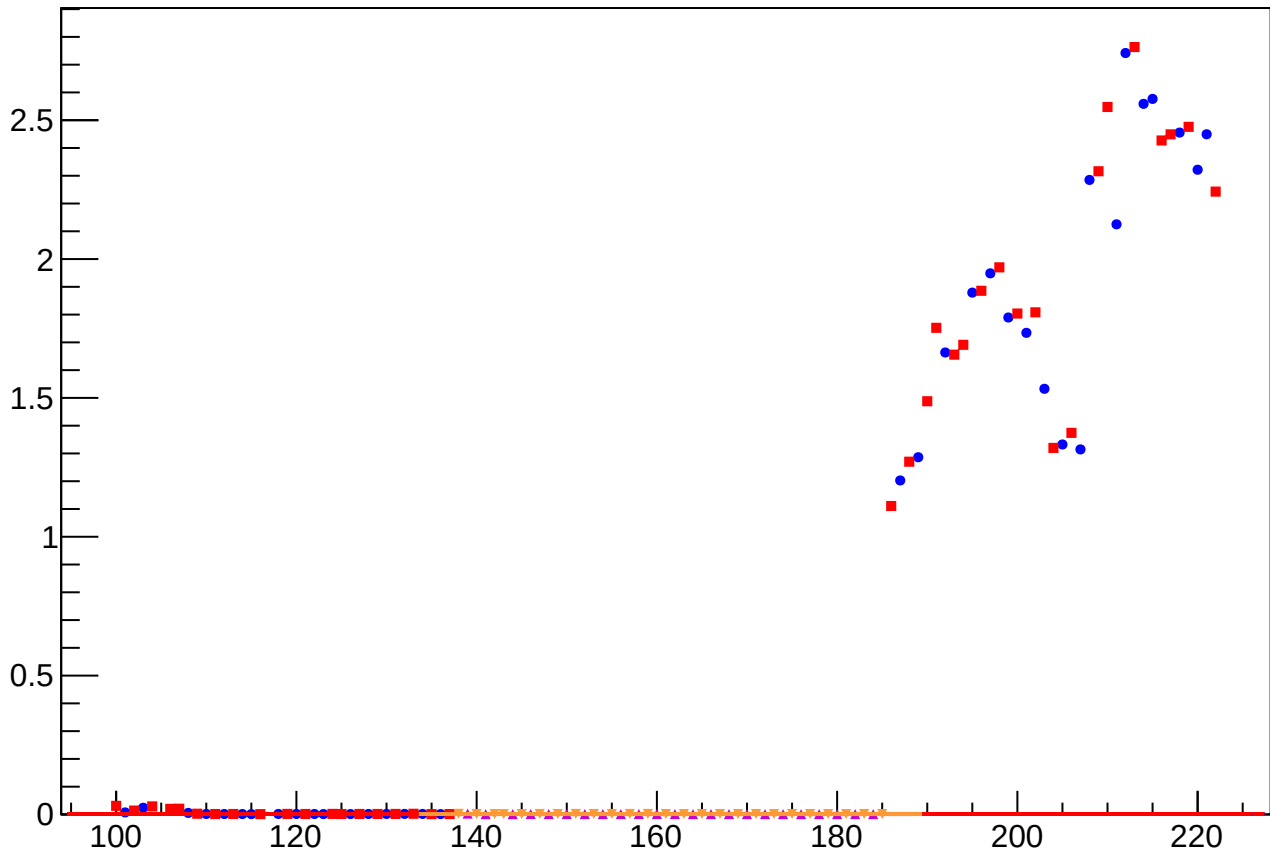
Out: 0.000+/-0.000

χ^2/NDF : 3200635442.2/62

All: 0.000+/-0.000

χ^2/NDF : 13111356255.4/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 26724189.8/34

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 28741522.4/37

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

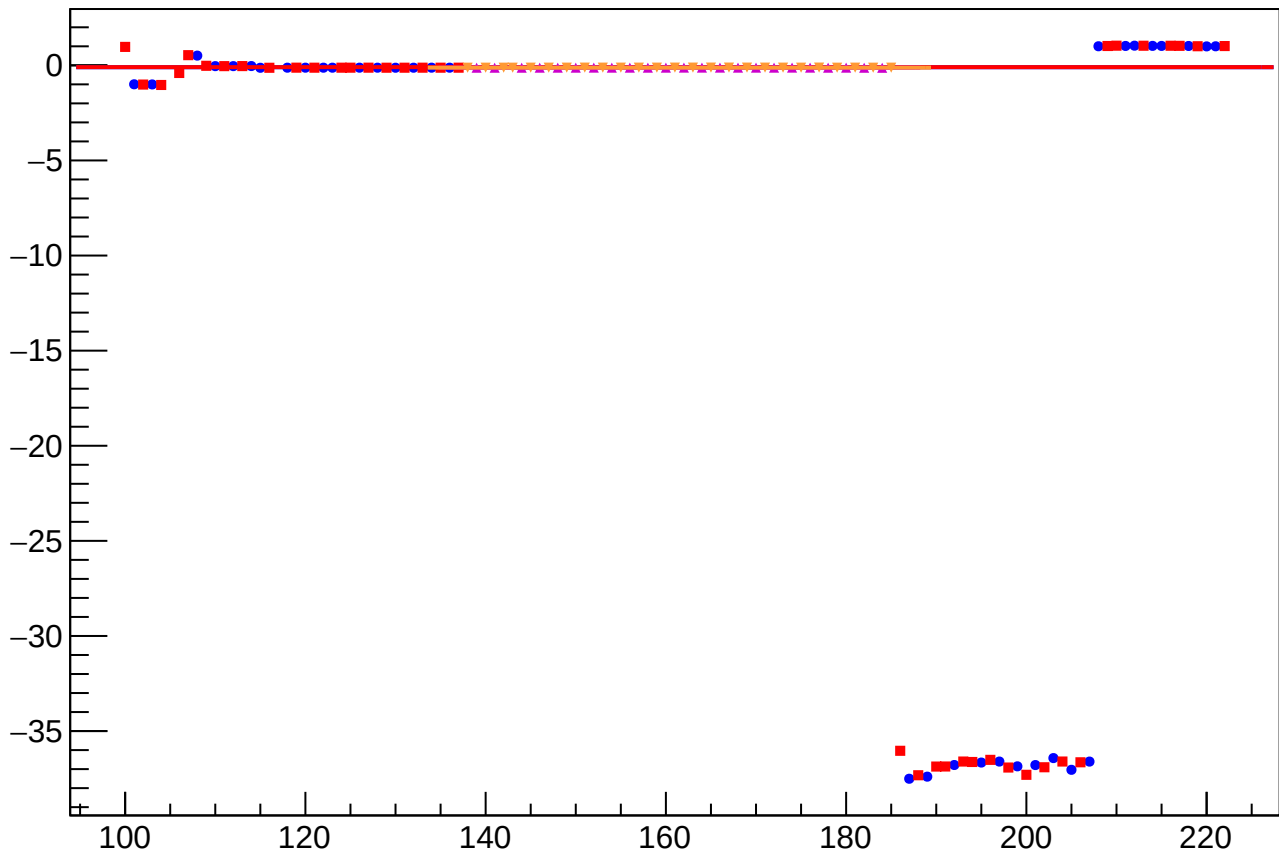
Right: 0.002+/-0.000 χ^2/NDF : 55473686.1/72

In: 0.002+/-0.000 χ^2/NDF :27437679.8/57

Out: 0.002+/-0.000 χ^2/NDF :29418856.3/62

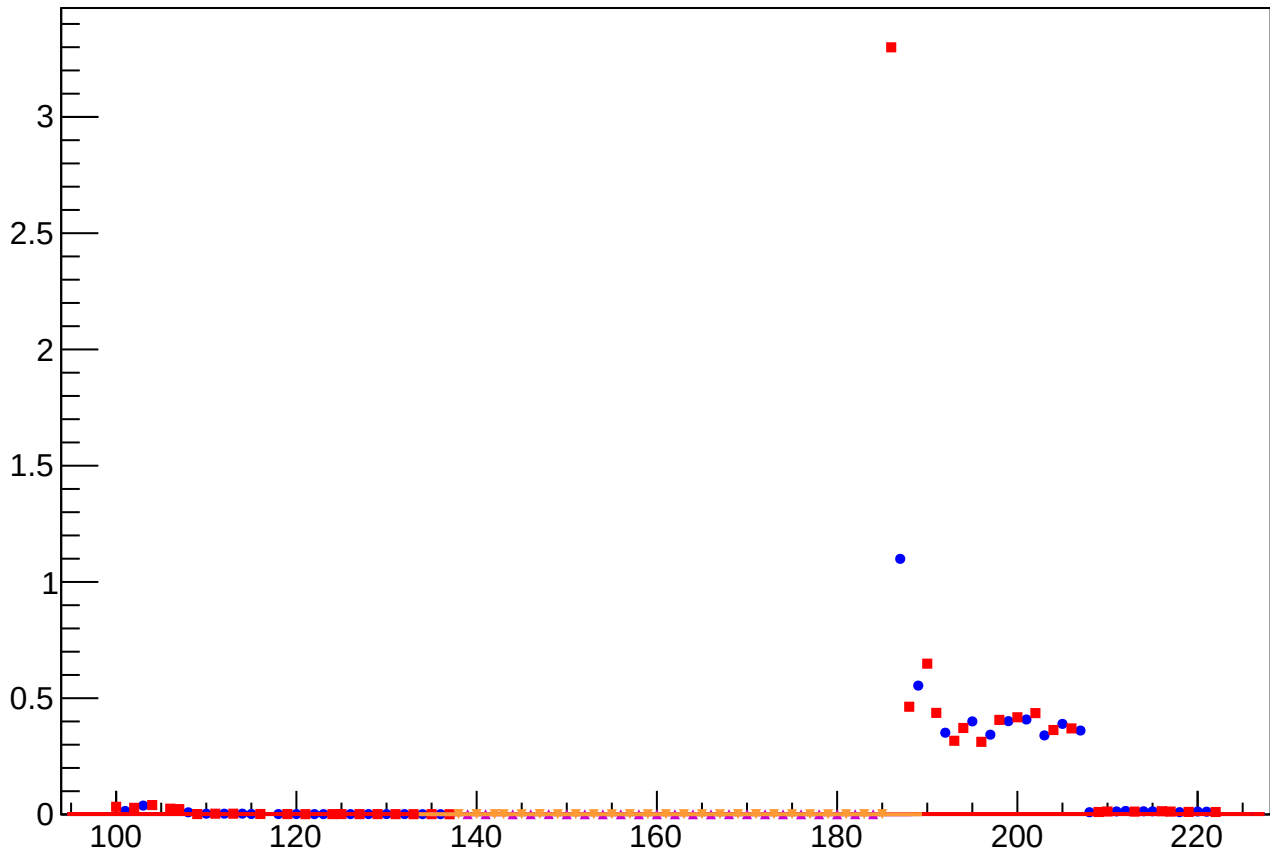
All: 0.002+/-0.000 χ^2/NDF : 56857172.0/120

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.100+/-0.000	χ^2/NDF : 111453916073.1/34	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.097+/-0.000	χ^2/NDF : 226633138328.8/72
Right Out: -0.095+/-0.000	χ^2/NDF : 115154803836.6/37	In: -0.119+/-0.000	χ^2/NDF : 112285194280.5/57
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.119+/-0.000	χ^2/NDF : 116433947006.0/62
		All: -0.119+/-0.000	χ^2/NDF : 228719636585.3

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24081361.6/34

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25980621.4/37

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

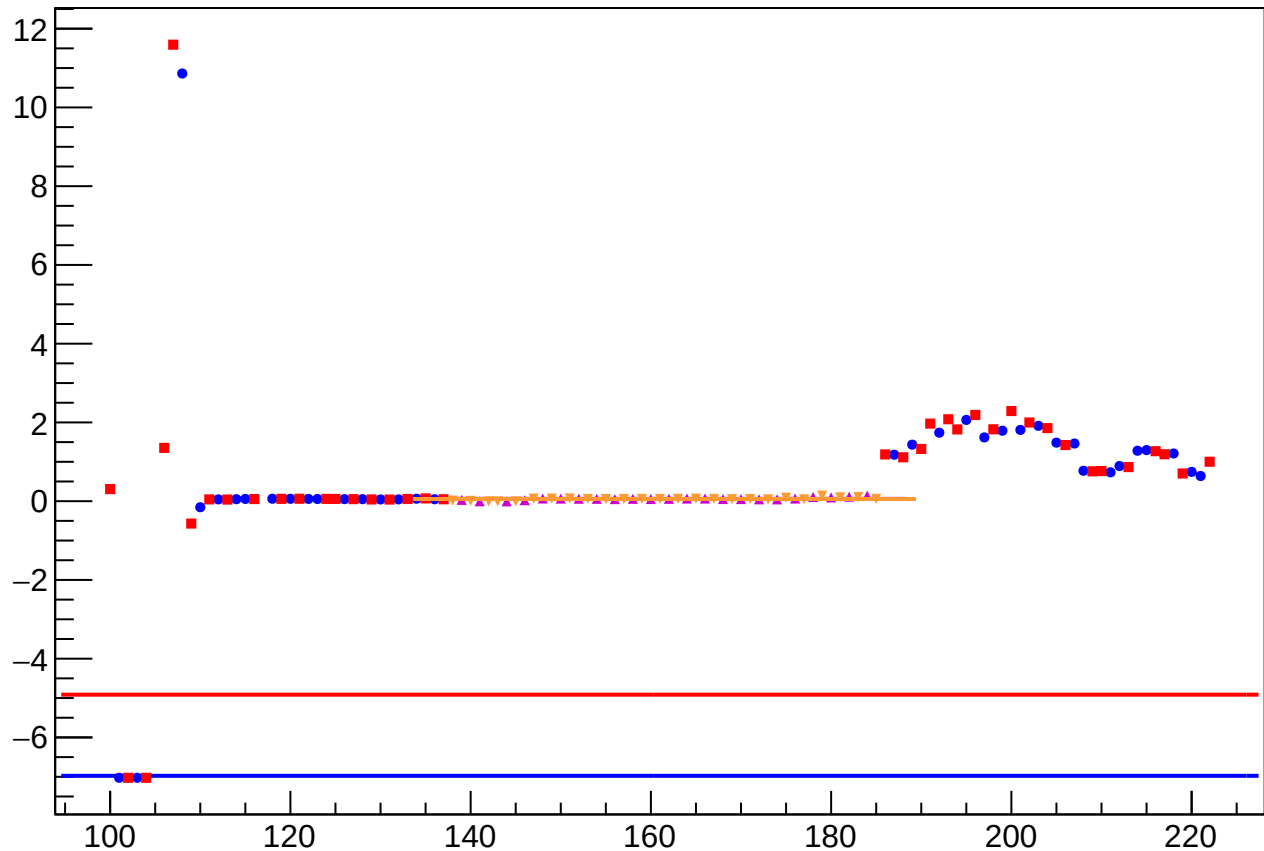
Right: 0.002+/-0.000 χ^2/NDF : 50062115.0/72

In: 0.001+/-0.000 χ^2/NDF :27151928.4/57

Out: 0.001+/-0.000 χ^2/NDF :29464951.5/62

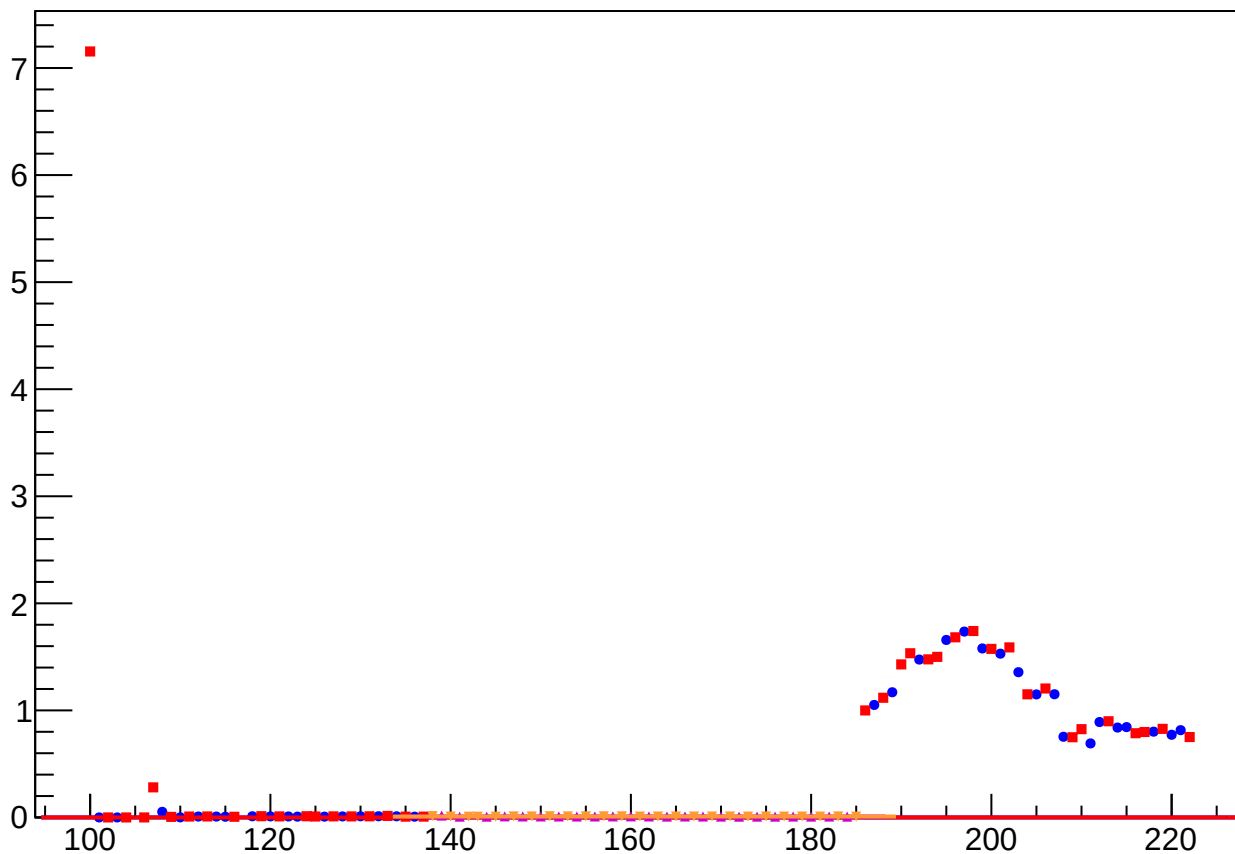
All: 0.001+/-0.000 χ^2/NDF : 56619635.2/120

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000	χ^2/NDF : 8763265697360.3/34	Left: 0.057+/-0.000	χ^2/NDF : 423872259.5/47
Left Out: 0.055+/-0.000	χ^2/NDF : 243733184.3/24	Right: -5.900+/-0.000	χ^2/NDF : 430304419498281.8
Right Out: -4.914+/-0.000	χ^2/NDF : 365348989023397.2/37	In: -6.925+/-0.000	χ^2/NDF : 17605784726118.9/57
Left In: 0.059+/-0.000	χ^2/NDF : 178713649.9/22	Out: -4.879+/-0.000	χ^2/NDF : 370175672020554.4/
		All: -5.858+/-0.000	χ^2/NDF : 4435823725685

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33055206.5/34

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 34510528.3/37

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

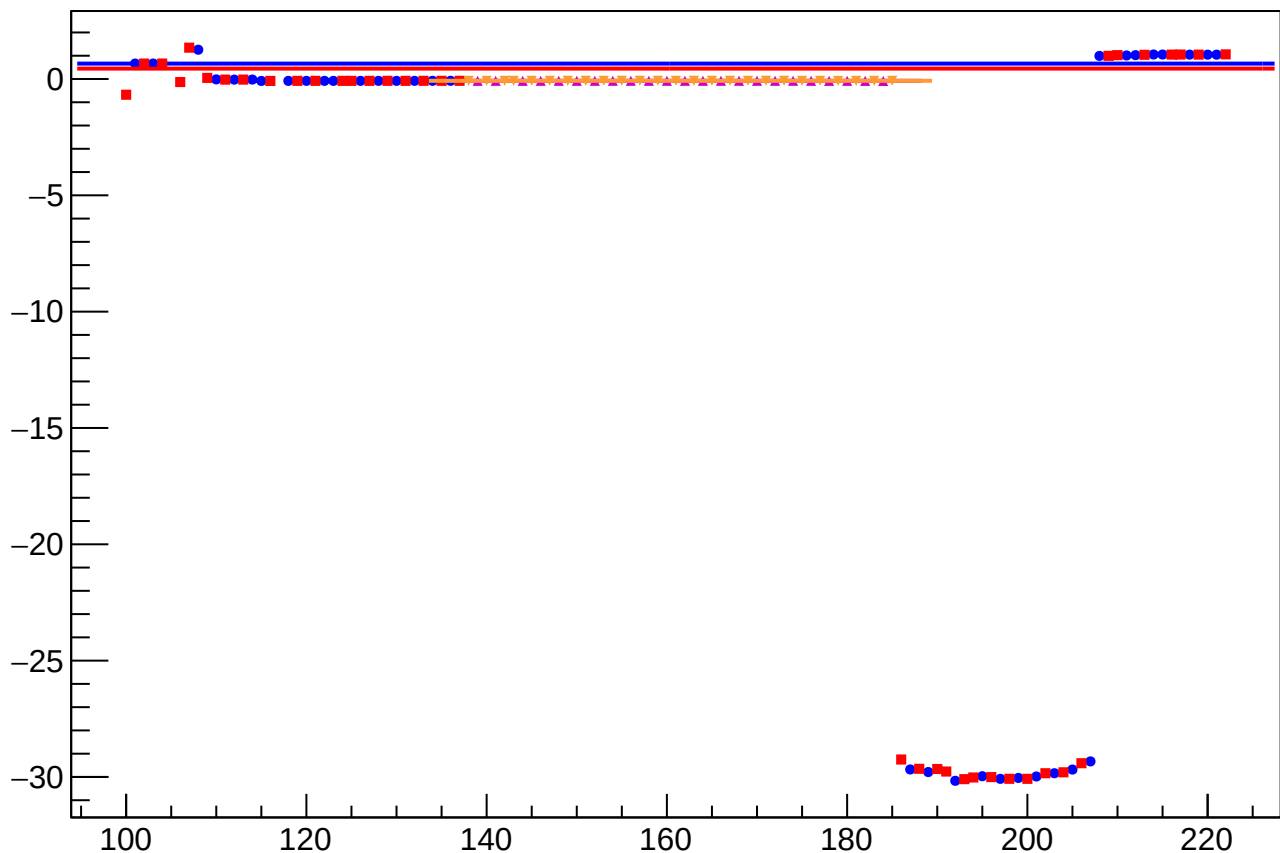
Right: 0.000+/-0.000 χ^2/NDF : 67566049.1/72

In: 0.000+/-0.000 χ^2/NDF : 60689938.2/57

Out: 0.000+/-0.000 χ^2/NDF : 63536748.5/62

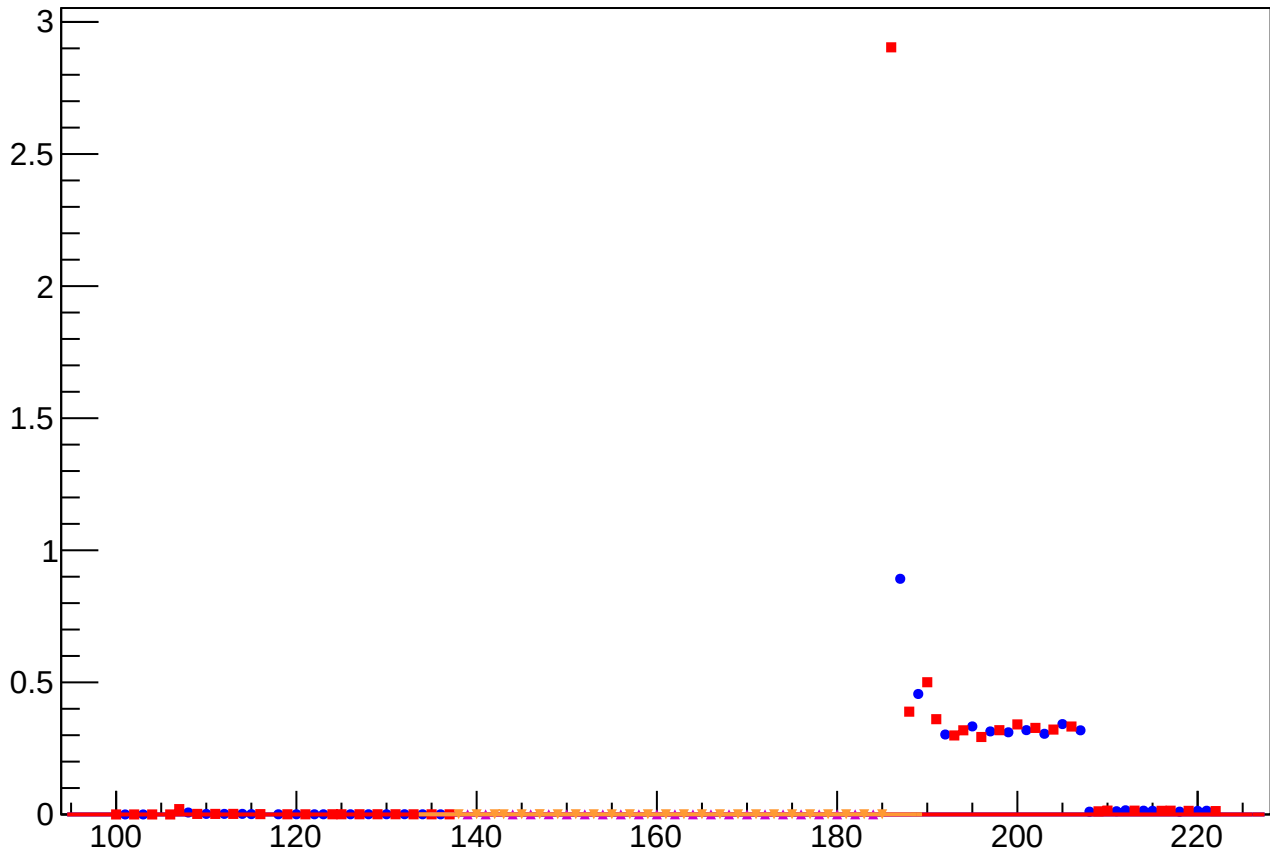
All: 0.000+/-0.000 χ^2/NDF : 124227186.4/120

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5650289604005.3/34	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 : 474068096579266.4
Right Out: 0.446+/-0.000	χ^2/NDF : 405488579392802.1/37	In: 0.647+/-0.000	χ^2/NDF : 33910585732584.5/57
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420683483583003.5/6
		All: 0.537+/-0.000	χ^2/NDF : 51611878956938

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34245045.3/34

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35013206.1/37

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

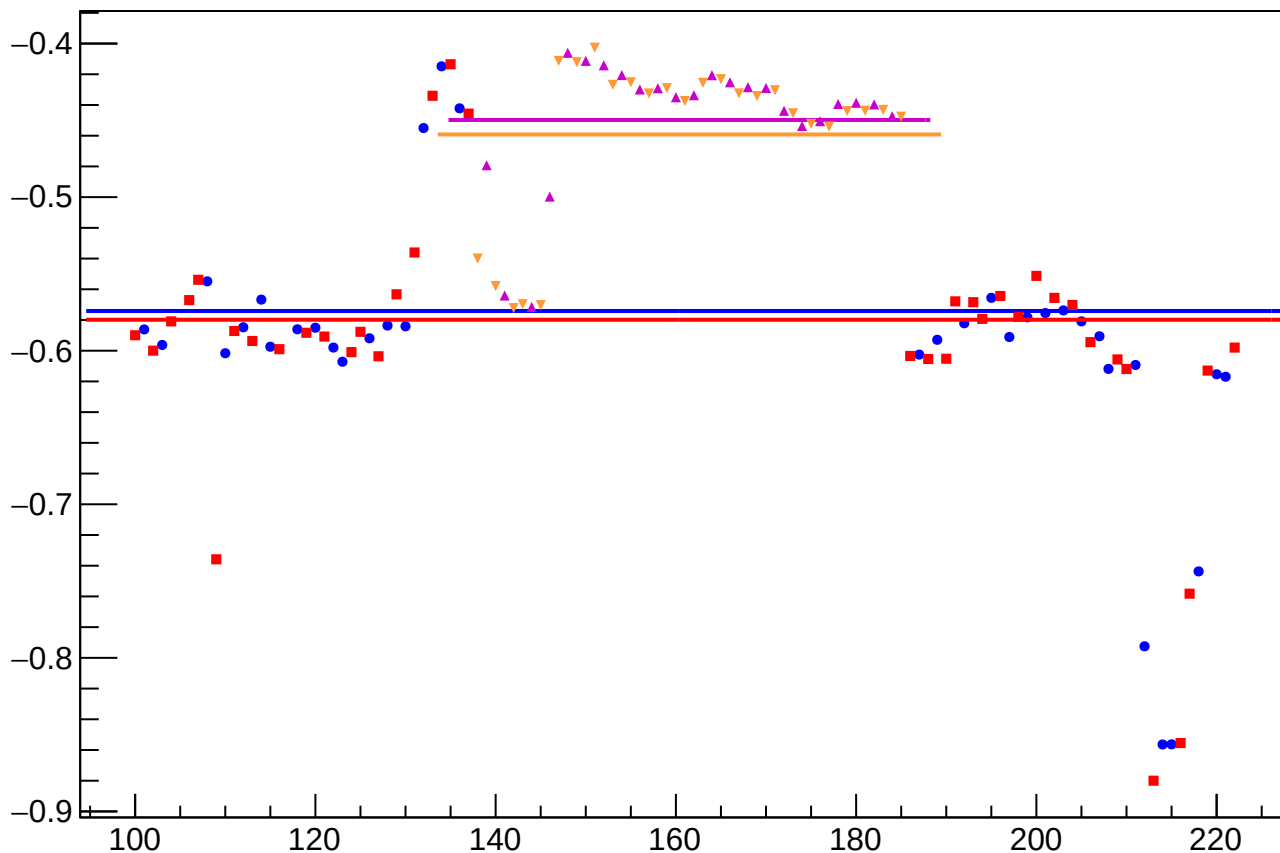
Right: 0.000+/-0.000 χ^2/NDF : 69258267.0/72

In: 0.000+/-0.000 χ^2/NDF :65205316.0/57

Out: 0.000+/-0.000 χ^2/NDF :67711143.7/62

All: 0.000+/-0.000 χ^2/NDF : 132916917.1/120

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574 $\pm$ 0.000 χ^2/NDF : 115421352.3/34

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.580 $\pm$ 0.000 χ^2/NDF : 120036718.1/37

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

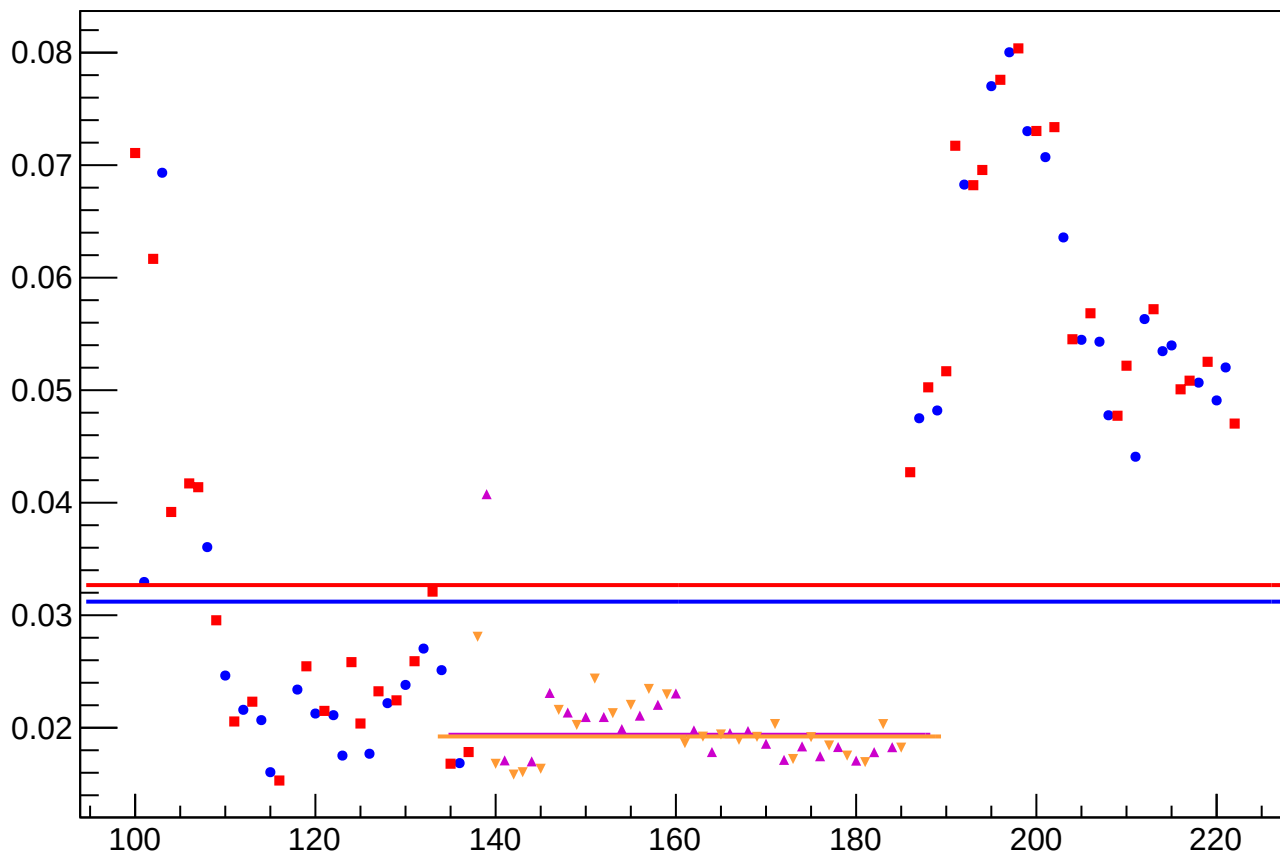
Right: -0.577 $\pm$ 0.000 χ^2/NDF : 235685632.0/72

In: -0.484 $\pm$ 0.000 χ^2/NDF : 351197521.9/57

Out: -0.490 $\pm$ 0.000 χ^2/NDF : 383658416.2/62

All: -0.487 $\pm$ 0.000 χ^2/NDF : 735803942.4/12

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8129823.4/34

Left Out: 0.019+/-0.000 χ^2/NDF :501253.7/24

Right Out: 0.033+/-0.000 χ^2/NDF : 7987296.7/37

Left In: 0.019+/-0.000 χ^2/NDF :656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

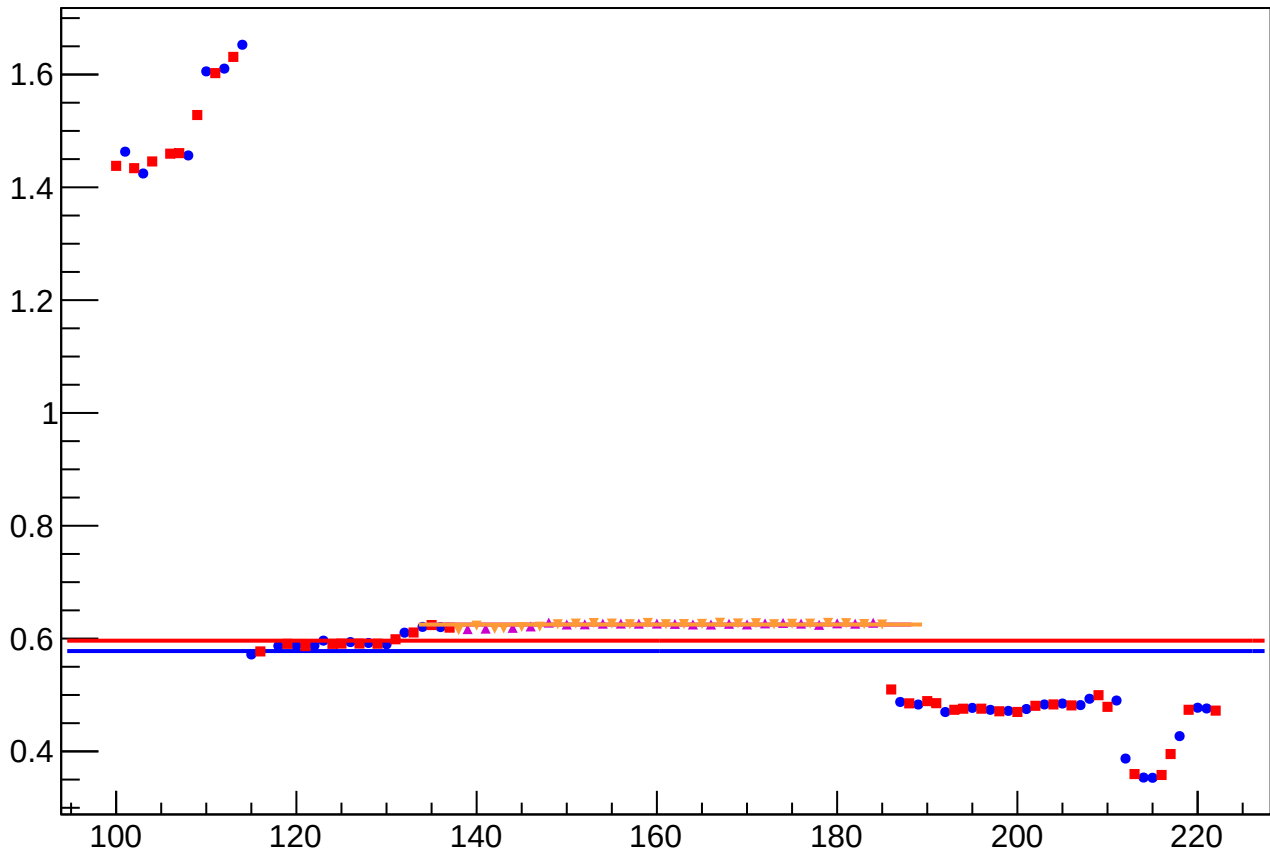
Right: 0.032+/-0.000 χ^2/NDF : 16147495.9/72

In: 0.023+/-0.000 χ^2/NDF :11674217.4/57

Out: 0.023+/-0.000 χ^2/NDF :12214836.0/62

All: 0.023+/-0.000 χ^2/NDF : 23889090.4/120

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.578+/-0.000 χ^2/NDF : 5631830946.6/34

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.596+/-0.000 χ^2/NDF : 6677689233.3/37

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

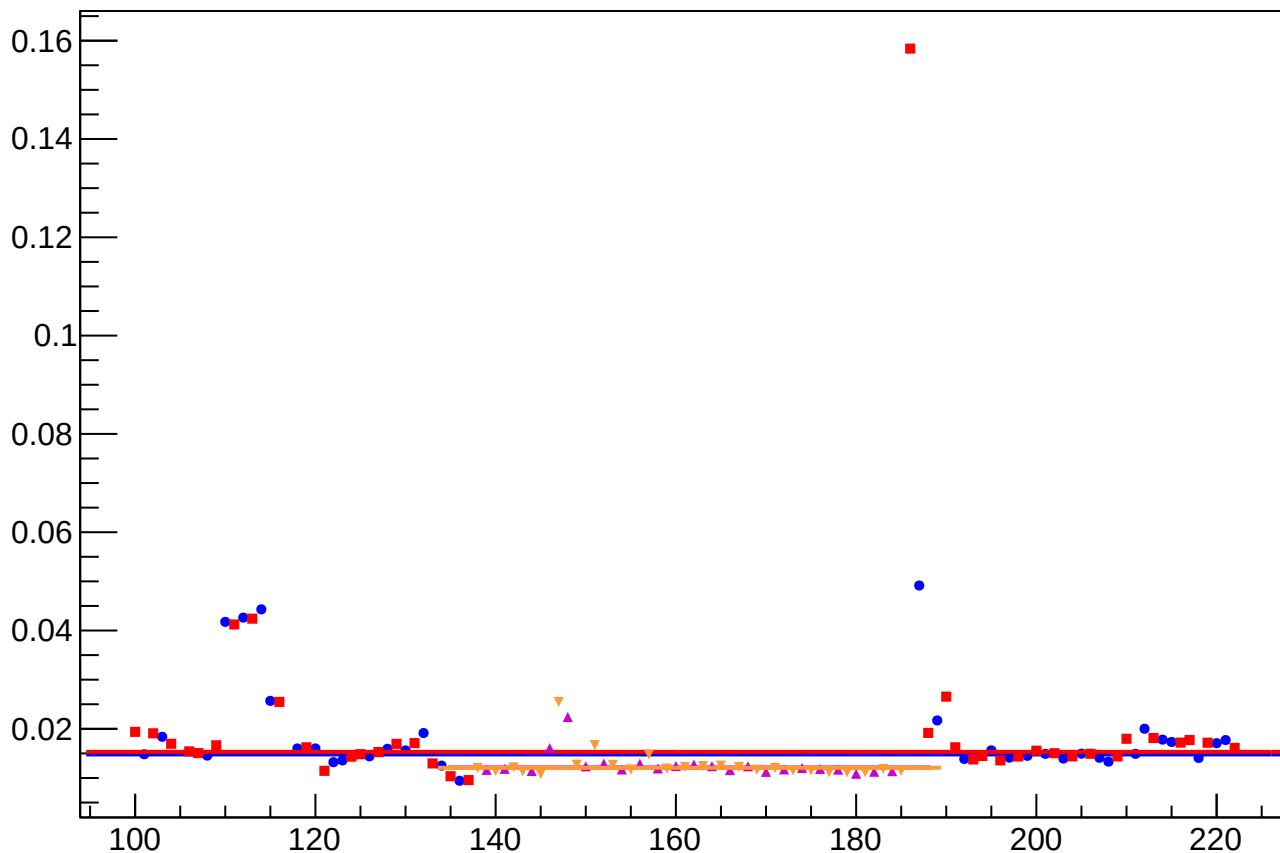
Right: 0.587+/-0.000 χ^2/NDF : 12322928050.8/72

In: 0.605+/-0.000 χ^2/NDF :5737095622.0/57

Out: 0.614+/-0.000 χ^2/NDF :6718039111.1/62

All: 0.610+/-0.000 χ^2/NDF : 12461880244.2/131

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1906157.5/34

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2232390.8/37

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

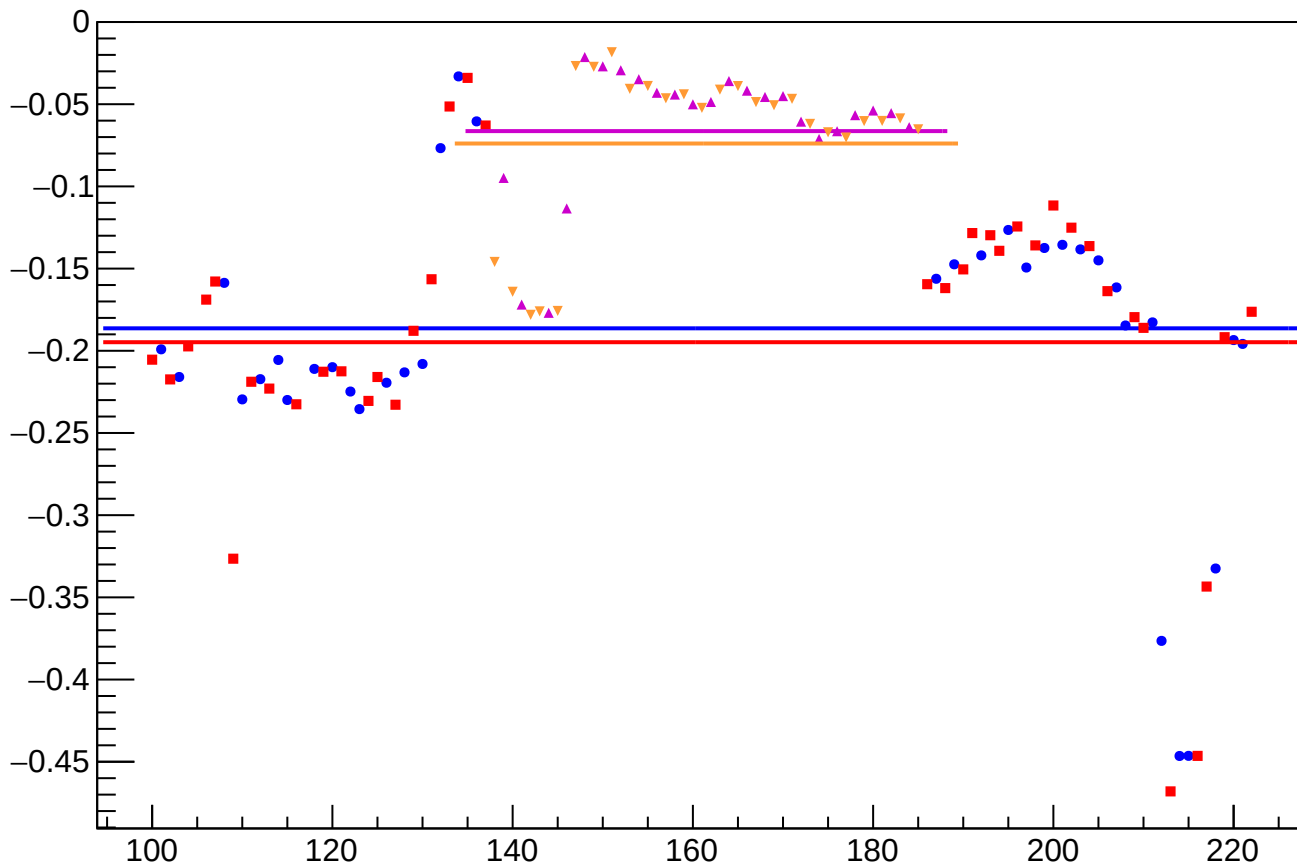
Right: 0.015+/-0.000 χ^2/NDF : 4161153.7/72

In: 0.013+/-0.000 χ^2/NDF : 3057817.2/57

Out: 0.013+/-0.000 χ^2/NDF : 3891118.0/62

All: 0.013+/-0.000 χ^2/NDF : 6951418.2/120

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186 ± 0.000 $\chi^2/\text{NDF}: 127827667.7/34$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107858881.3/24$

Right Out: -0.195 ± 0.000 $\chi^2/\text{NDF}: 134252657.3/37$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76283954.4/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185261776.8/47$

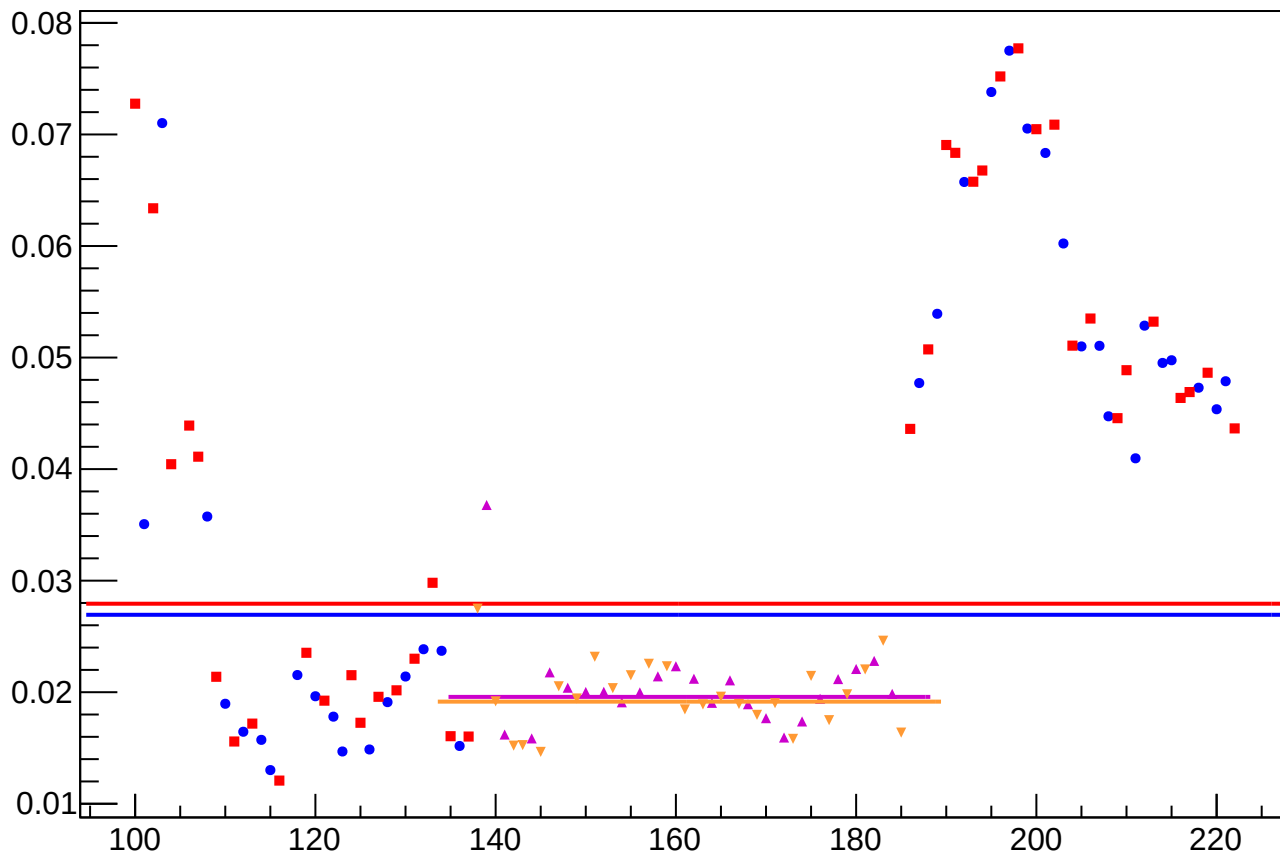
Right: -0.191 ± 0.000 $\chi^2/\text{NDF}: 262721094.6/72$

In: -0.106 ± 0.000 $\chi^2/\text{NDF}: 380088942.3/57$

Out: -0.110 ± 0.000 $\chi^2/\text{NDF}: 423580424.2/62$

All: -0.108 ± 0.000 $\chi^2/\text{NDF}: 804334178.1/12$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9559744.9/34

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9803898.1/37

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

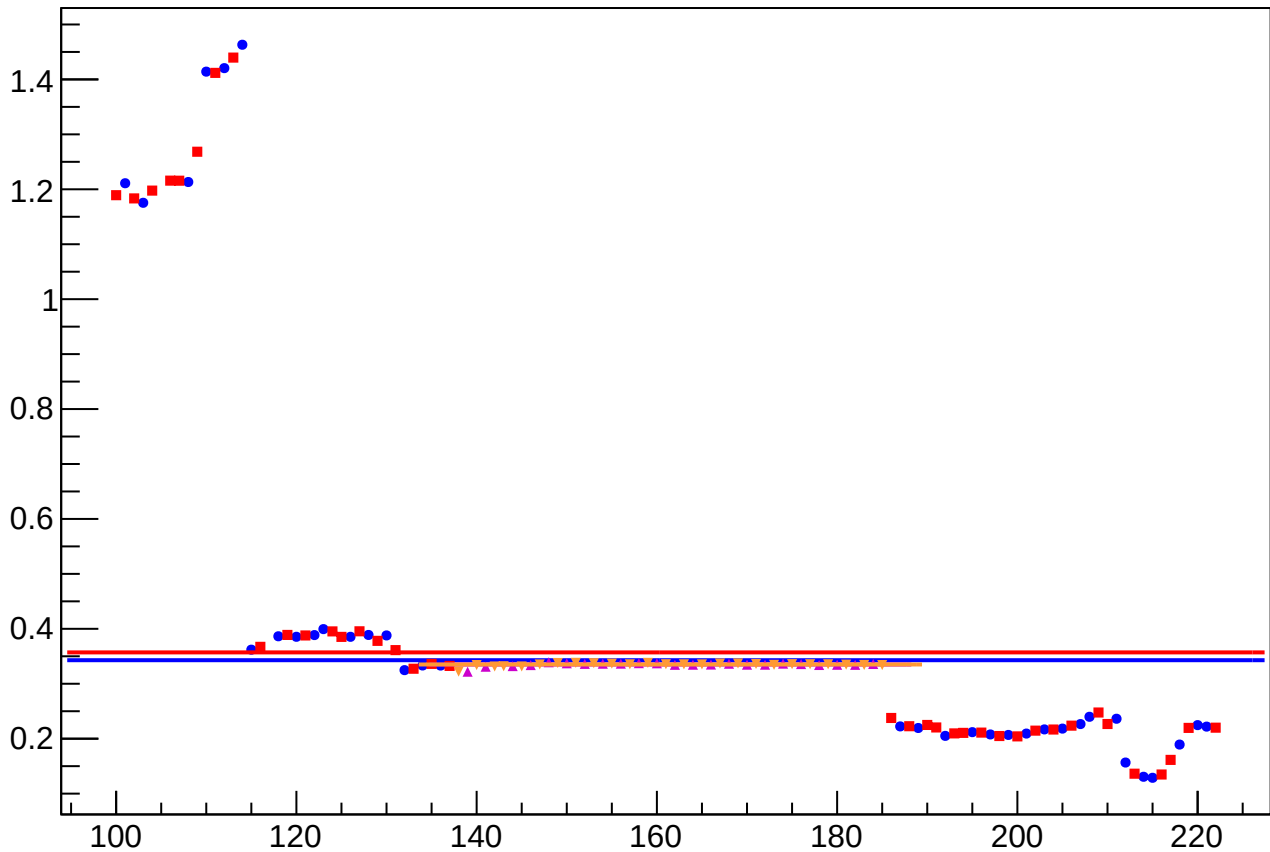
Right: 0.027+/-0.000 χ^2/NDF : 19381340.9/72

In: 0.022+/-0.000 χ^2/NDF : 11535532.0/57

Out: 0.022+/-0.000 χ^2/NDF : 12359053.1/62

All: 0.022+/-0.000 χ^2/NDF : 23896487.4/120

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.343+/-0.000 χ^2/NDF : 8114466752.7/34

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.357+/-0.000 χ^2/NDF : 9203453932.7/37

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

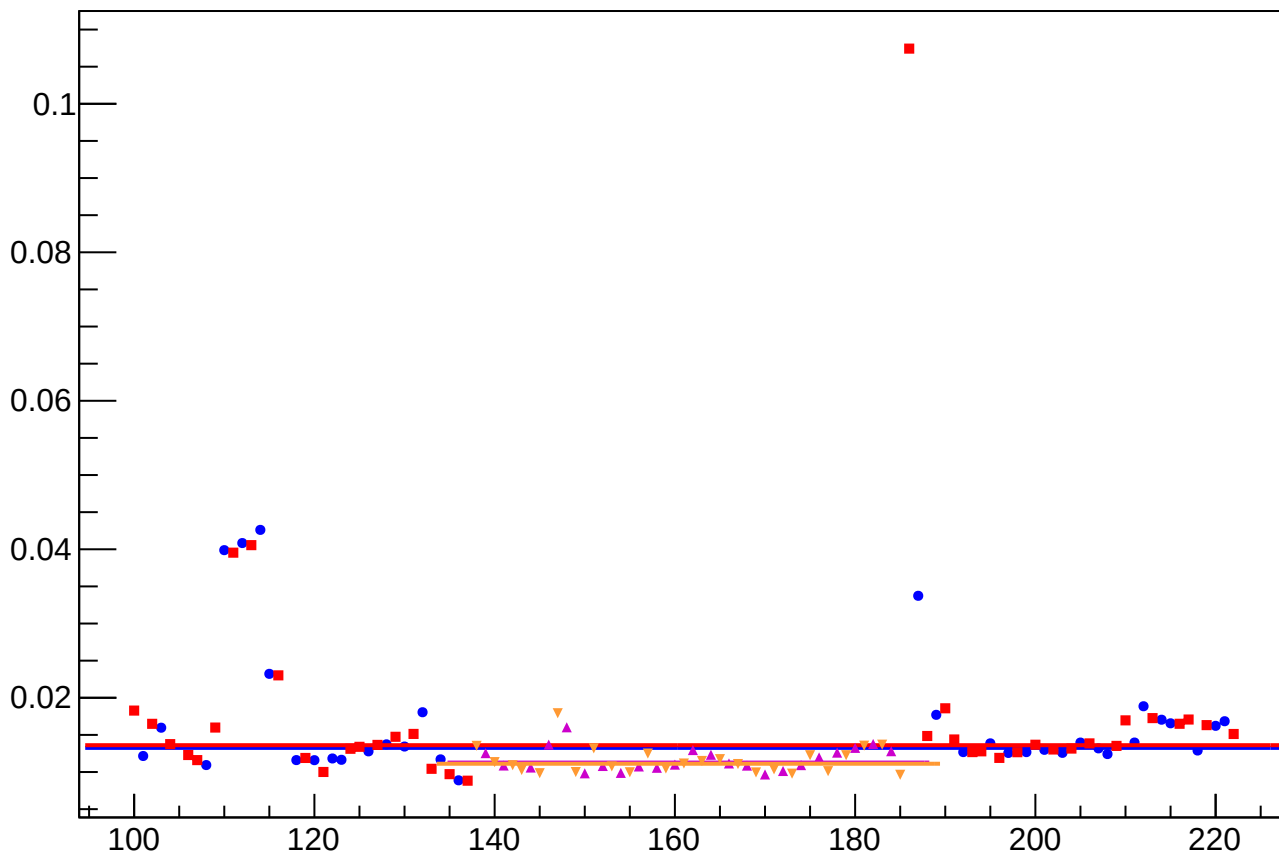
Right: 0.350+/-0.000 χ^2/NDF : 17327913160.6/72

In: 0.338+/-0.000 χ^2/NDF :8119155277.4/57

Out: 0.344+/-0.000 χ^2/NDF :9232602984.7/62

All: 0.341+/-0.000 χ^2/NDF : 17355549280.2/131

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1925843.2/34

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2272119.2/37

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

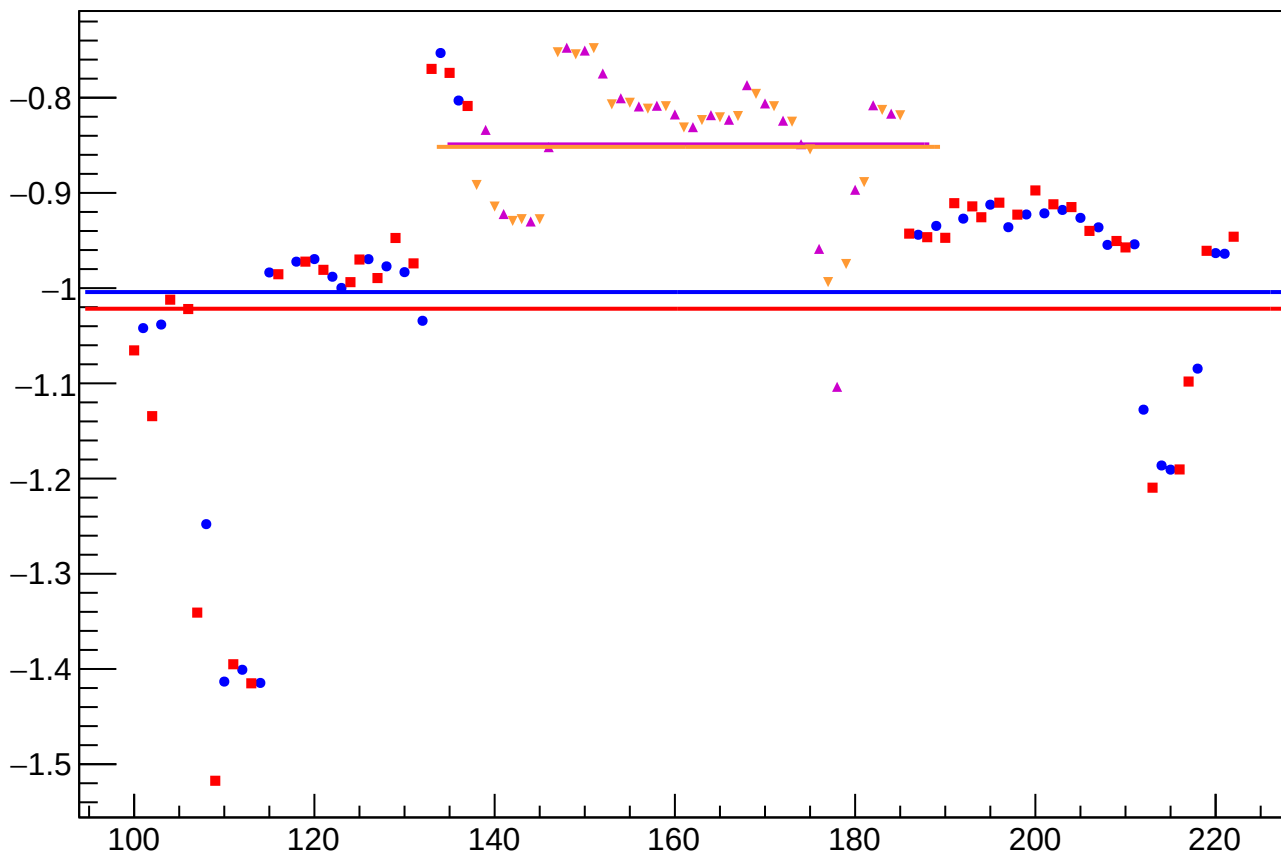
Right: 0.013+/-0.000 χ^2/NDF : 4210878.3/72

In: 0.012+/-0.000 χ^2/NDF : 2870836.1/57

Out: 0.012+/-0.000 χ^2/NDF : 3603117.2/62

All: 0.012+/-0.000 χ^2/NDF : 6473966.0/120

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.000 $\chi^2/\text{NDF}: 429623240.1/34$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.022 ± 0.000 $\chi^2/\text{NDF}: 580600695.5/37$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

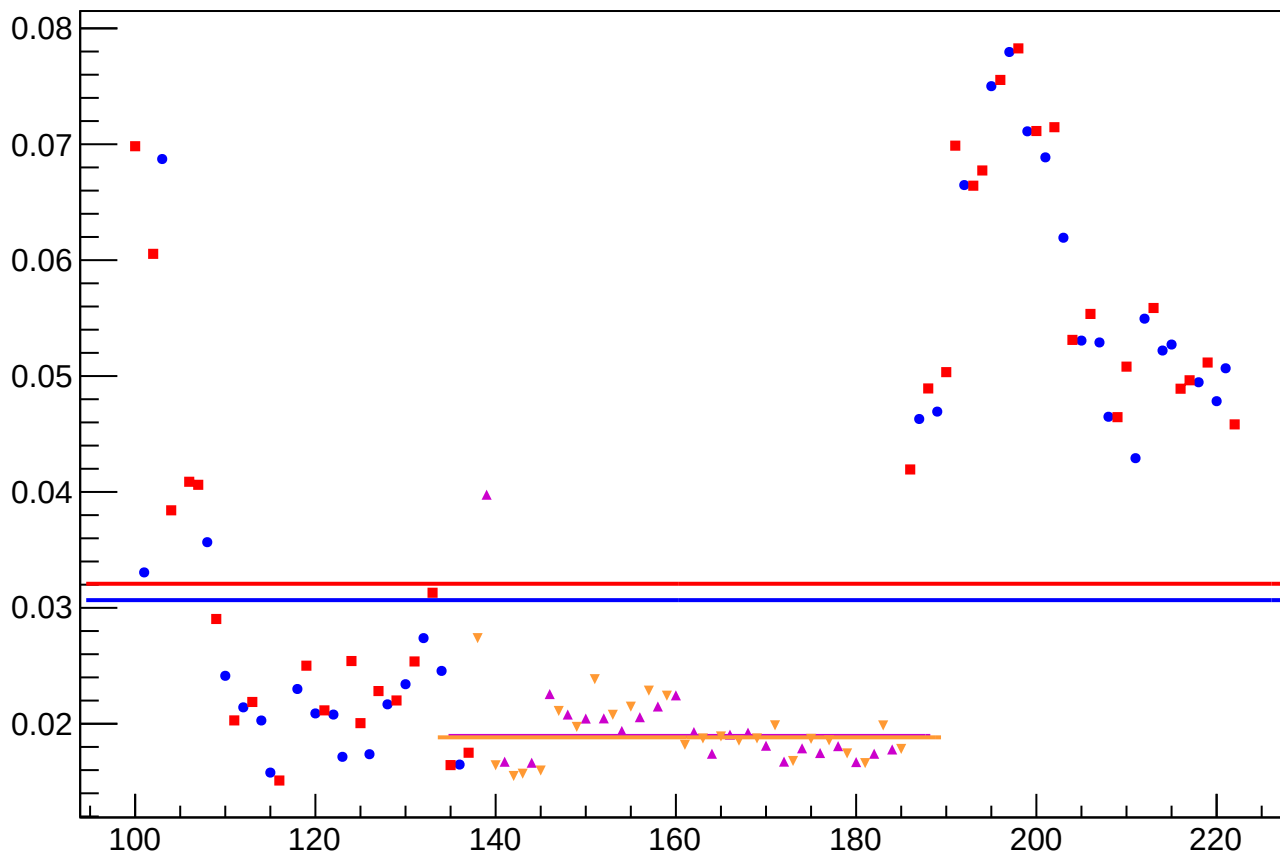
Right: -1.013 ± 0.000 $\chi^2/\text{NDF}: 1012460416.5/72$

In: -0.892 ± 0.000 $\chi^2/\text{NDF}: 944315462.2/57$

Out: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1079494241.4/62$

All: -0.893 ± 0.000 $\chi^2/\text{NDF}: 2024139816.5/1$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8051179.0/34

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7890124.8/37

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

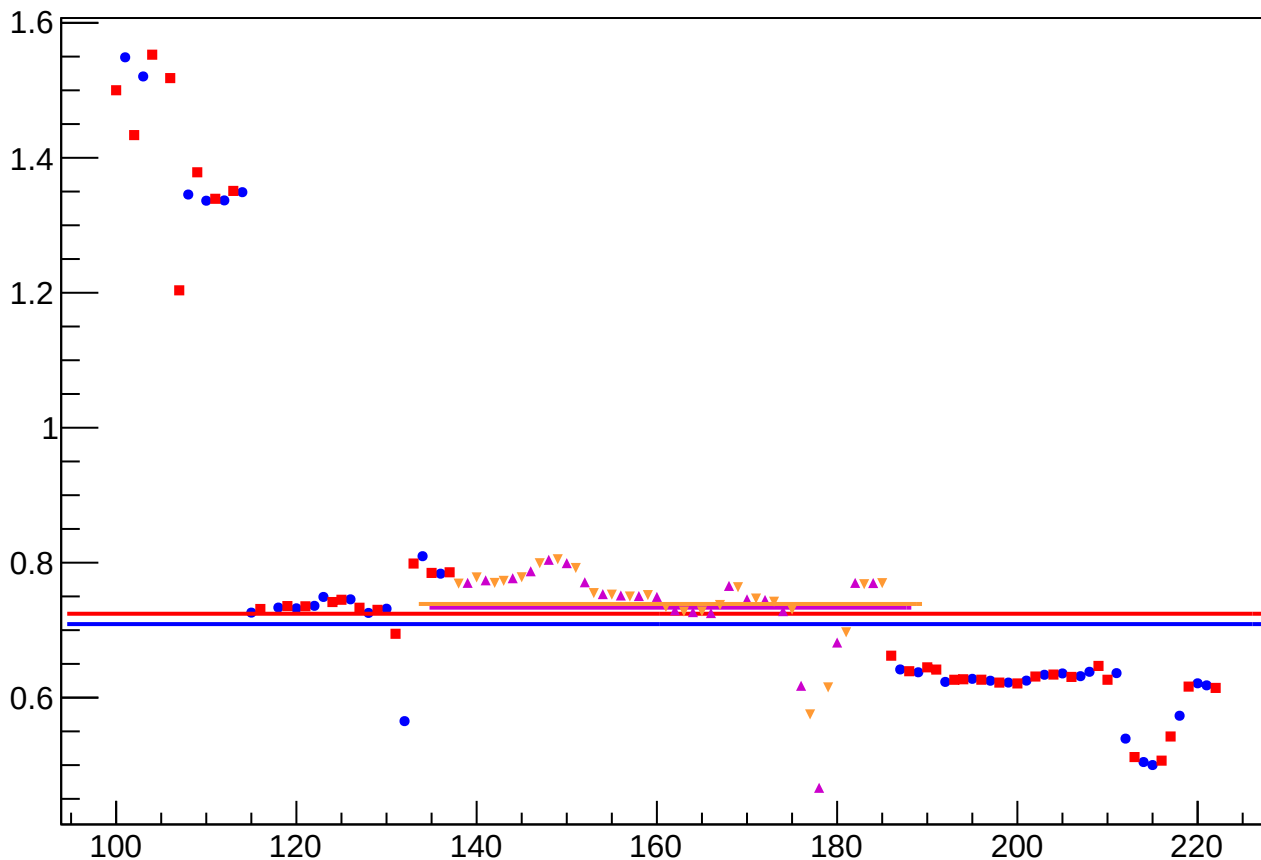
Right: 0.031+/-0.000 χ^2/NDF : 15970405.0/72

In: 0.022+/-0.000 χ^2/NDF : 11644641.7/57

Out: 0.022+/-0.000 χ^2/NDF : 12142257.0/62

All: 0.022+/-0.000 χ^2/NDF : 23787027.3/120

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.709 $\pm$ 0.000 χ^2 /NDF: 3936949304.6/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.724 $\pm$ 0.000 χ^2 /NDF: 4260840418.3/37

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

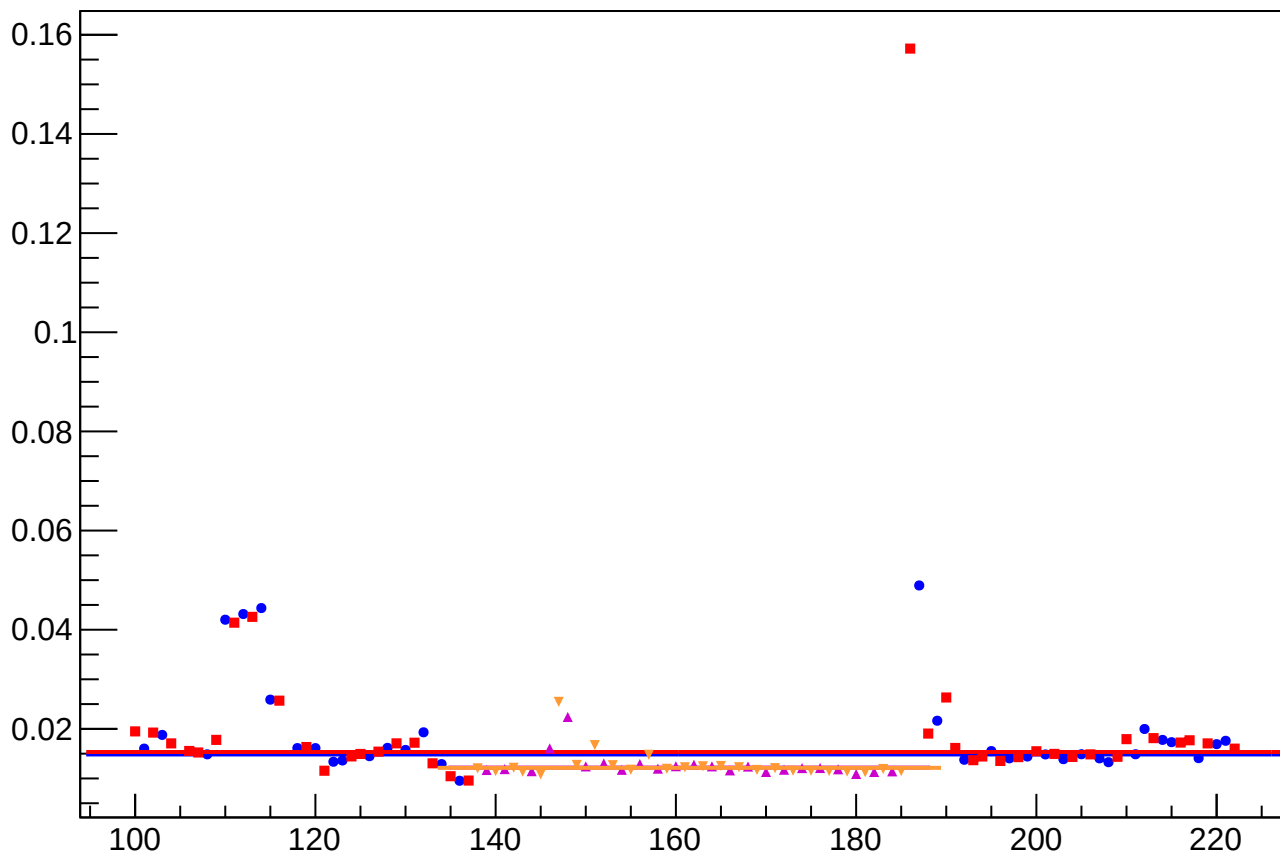
Right: 0.717 $\pm$ 0.000 χ^2 /NDF: 8207059716.4/72

In: 0.723 $\pm$ 0.000 χ^2 /NDF:4534955805.2/57

Out: 0.733 $\pm$ 0.000 χ^2 /NDF:4603815021.8/62

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 9148239855.0/12

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1893694.2/34

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2230695.0/37

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

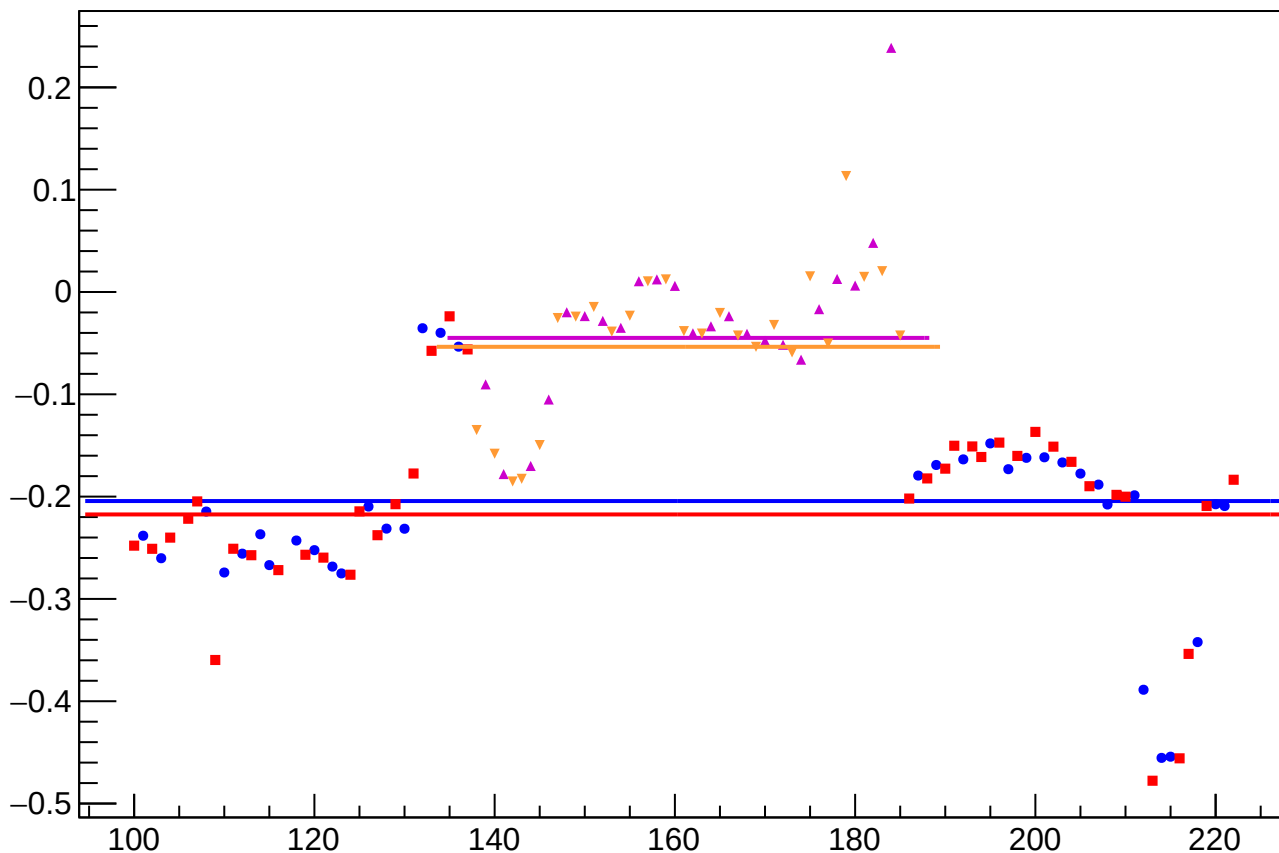
Right: 0.015+/-0.000 χ^2/NDF : 4143881.3/72

In: 0.013+/-0.000 χ^2/NDF : 3031215.3/57

Out: 0.013+/-0.000 χ^2/NDF : 3830497.7/62

All: 0.013+/-0.000 χ^2/NDF : 6864209.9/120

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160316031.6/34$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.217 ± 0.000 $\chi^2/\text{NDF}: 156003954.7/37$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

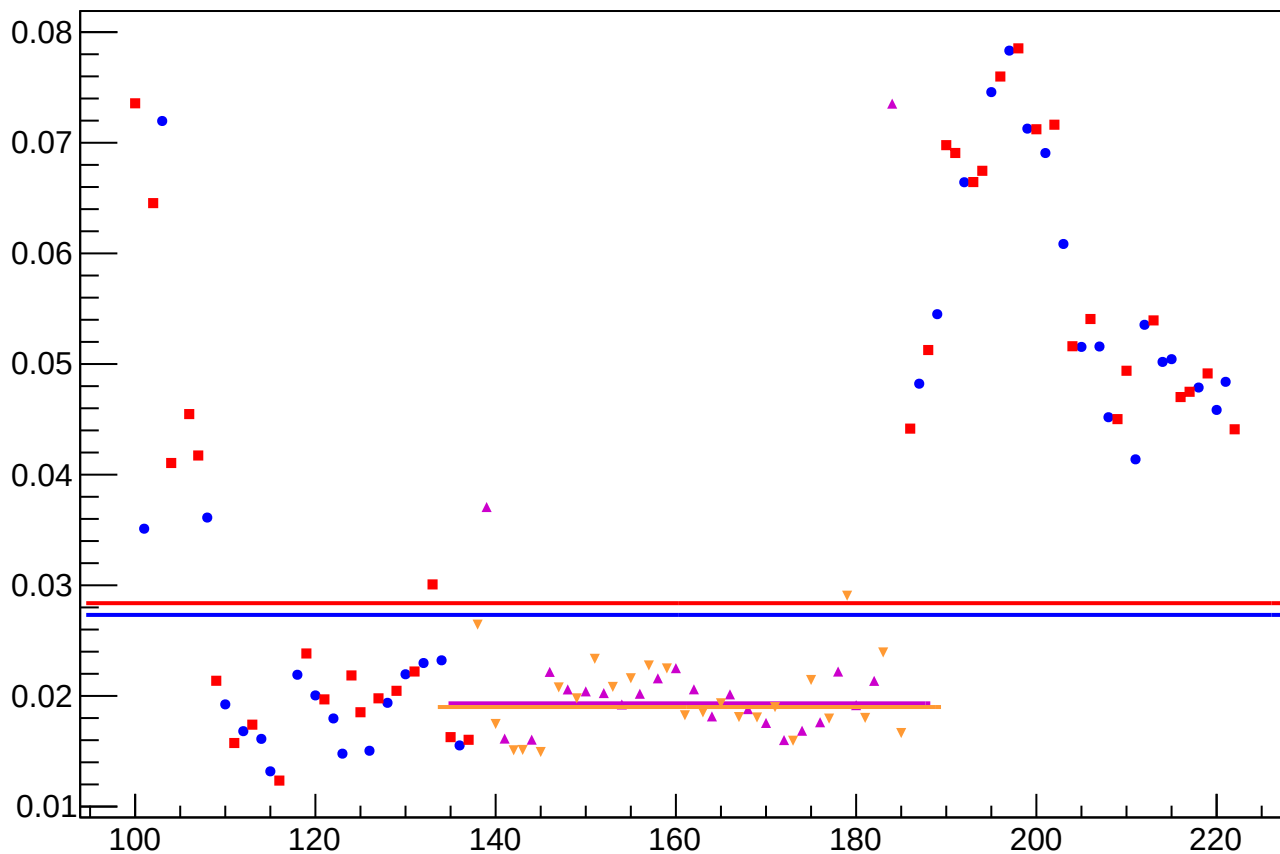
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 317817818.9/72$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 592684976.8/57$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 648832165.6/62$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1242640388.5/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9492834.4/34

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9732546.9/37

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

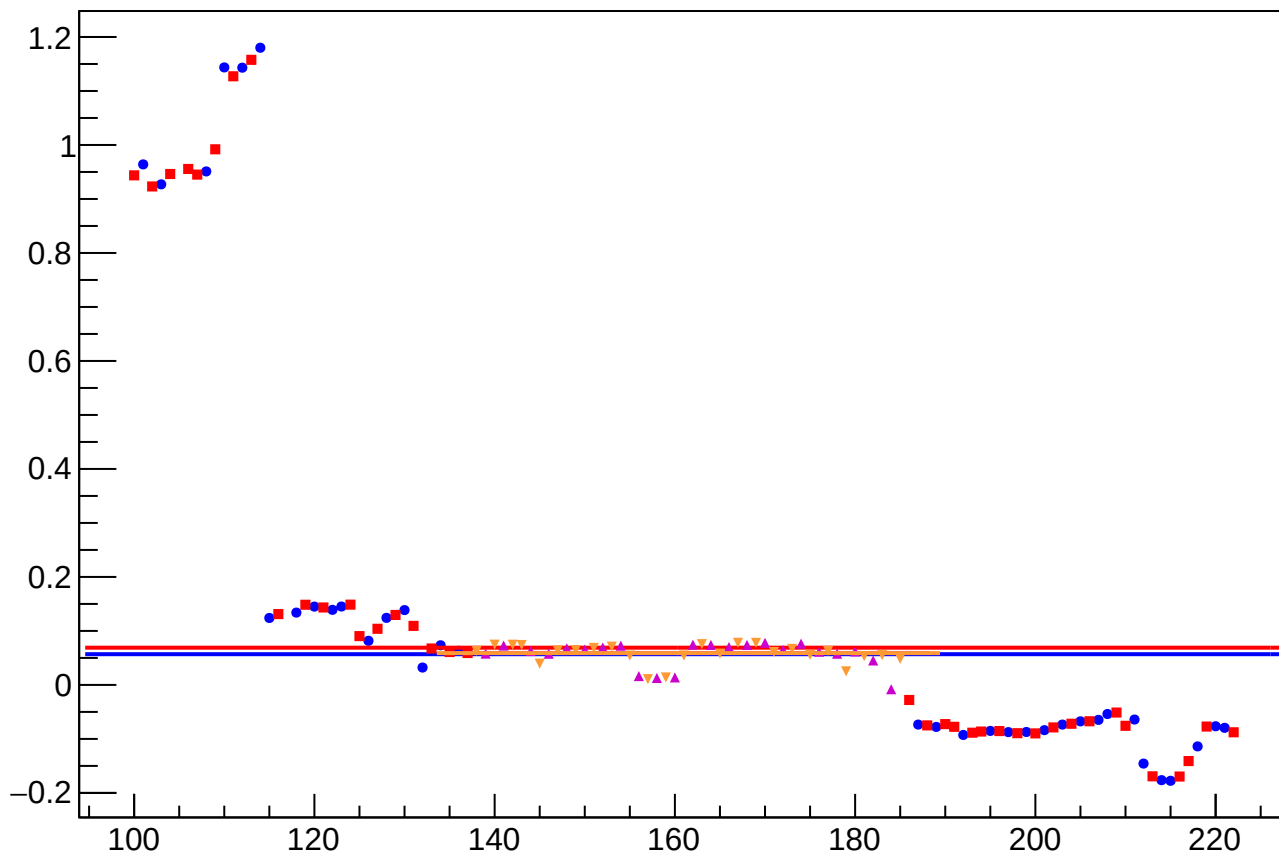
Right: 0.028+/-0.000 χ^2/NDF : 19245020.7/72

In: 0.022+/-0.000 χ^2/NDF : 11918562.8/57

Out: 0.022+/-0.000 χ^2/NDF : 12564939.3/62

All: 0.022+/-0.000 χ^2/NDF : 24484106.0/120

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.000 χ^2 /NDF: 8879649158.3/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.069 $\pm$ 0.000 χ^2 /NDF: 9811432567.8/37

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

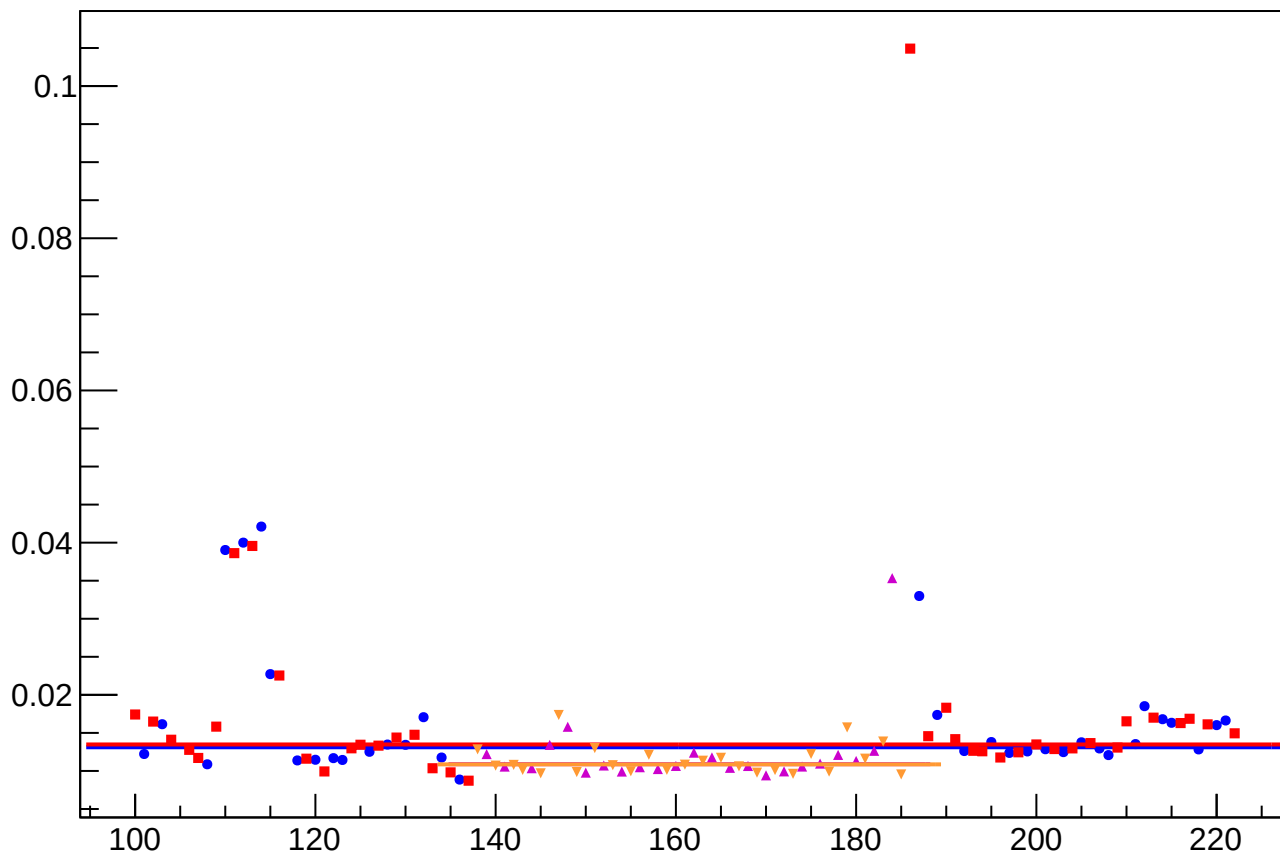
Right: 0.063 $\pm$ 0.000 χ^2 /NDF: 18698460445.0/72

In: 0.058 $\pm$ 0.000 χ^2 /NDF: 8938597076.1/57

Out: 0.063 $\pm$ 0.000 χ^2 /NDF: 9864349774.1/62

All: 0.061 $\pm$ 0.000 χ^2 /NDF: 18805748308.0/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1876991.7/34

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2212201.0/37

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

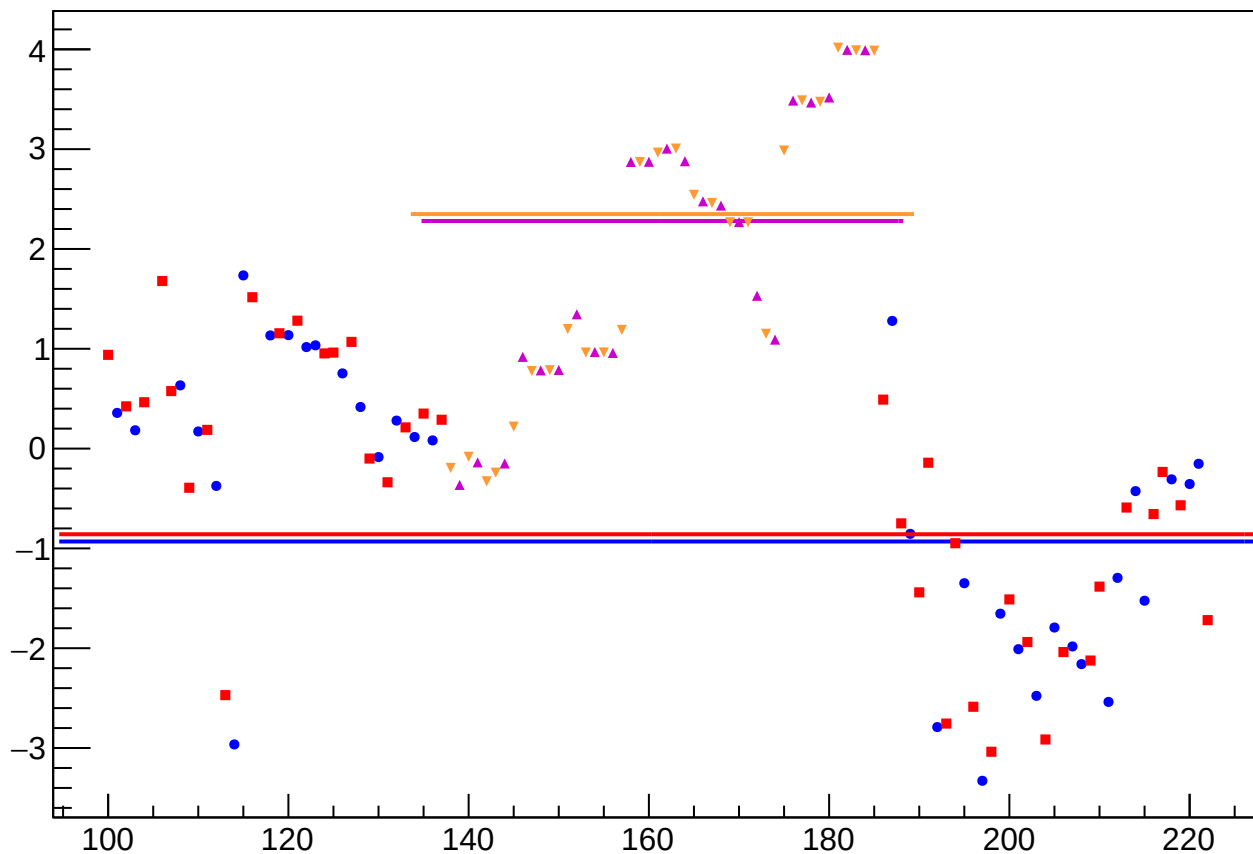
Right: 0.013+/-0.000 χ^2/NDF : 4102873.3/72

In: 0.012+/-0.000 χ^2/NDF : 2982869.5/57

Out: 0.012+/-0.000 χ^2/NDF : 3625696.1/62

All: 0.012+/-0.000 χ^2/NDF : 6610797.5/120

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.931 ± 0.000 $\chi^2/\text{NDF}: 8222567031.5/34$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.858 ± 0.000 $\chi^2/\text{NDF}: 8575248733.5/37$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

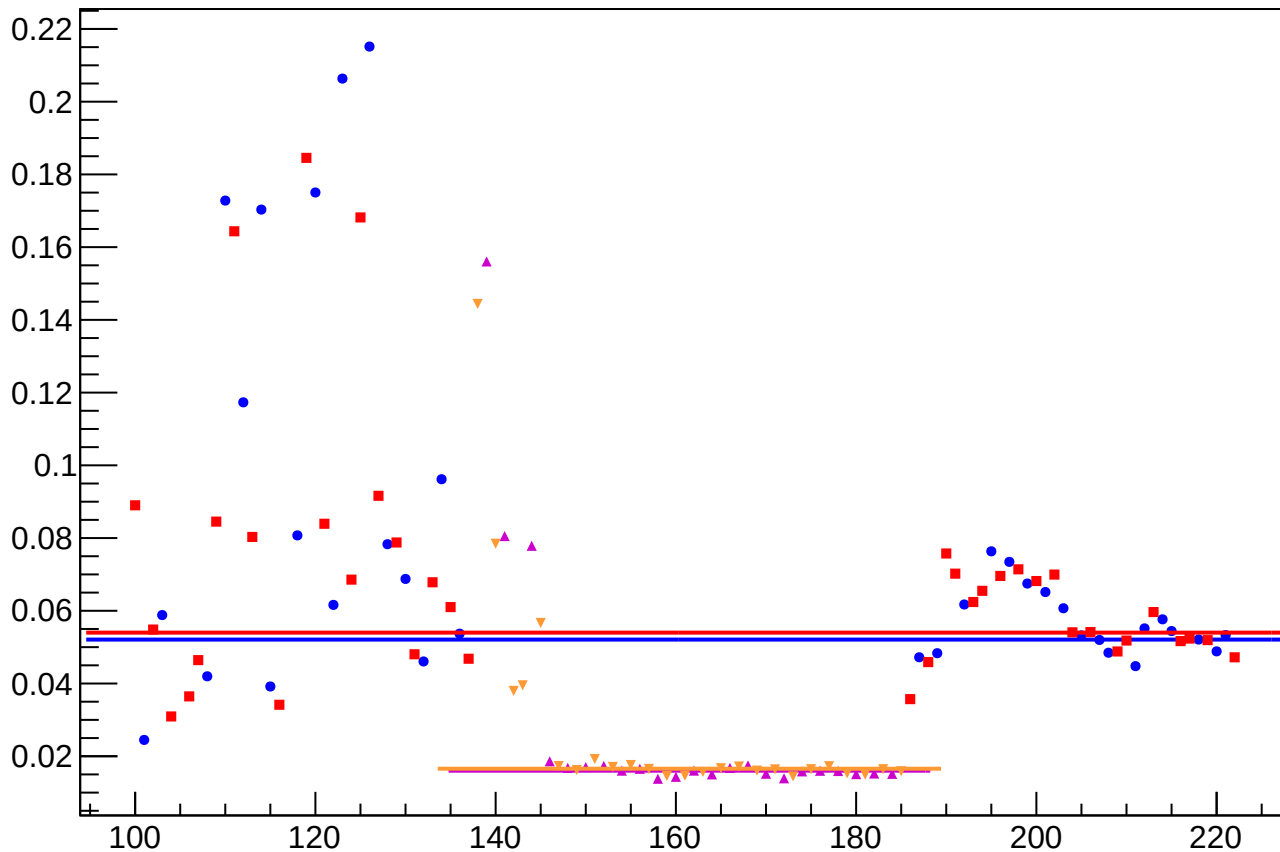
Right: -0.895 ± 0.000 $\chi^2/\text{NDF}: 16812546769.3/72$

In: 1.967 ± 0.000 $\chi^2/\text{NDF}: 122079691913.0/57$

Out: 2.033 ± 0.000 $\chi^2/\text{NDF}: 124084215403.6/62$

All: 2.000 ± 0.000 $\chi^2/\text{NDF}: 246286685839.9$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3533469.7/34

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2919719.2/37

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

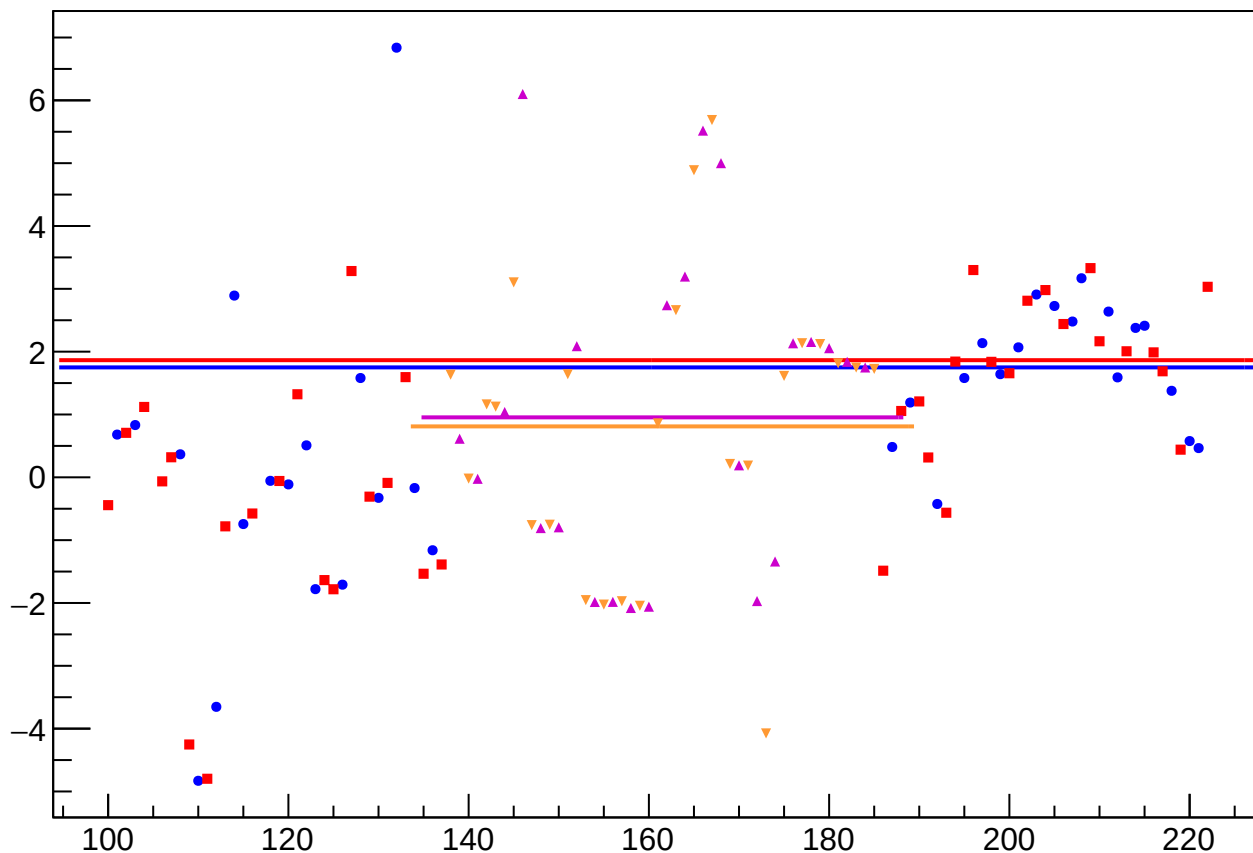
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6473730.9/72

In: 0.020 $\pm$ 0.000 χ^2 /NDF:19211676.0/57

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:19669195.9/62

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 38911191.7/120

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.750+/-0.000

χ^2/NDF : 46030128285.0/34

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right Out: 1.864+/-0.000

χ^2/NDF : 47677842099.8/37

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

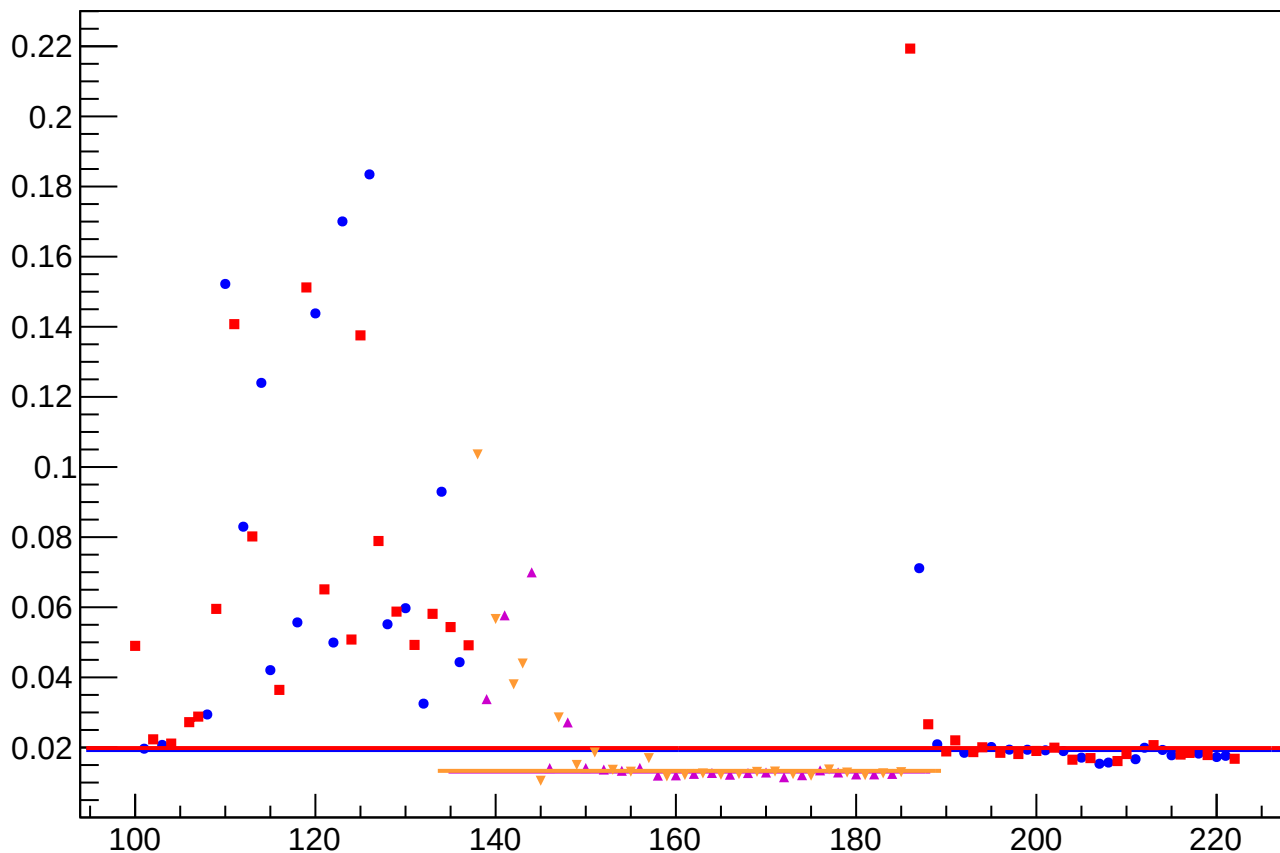
Right: 1.806+/-0.000 χ^2/NDF : 93951455846.3/72

In: 1.196+/-0.000 χ^2/NDF : 637258059336.4/57

Out: 1.127+/-0.000 χ^2/NDF : 583629427768.3/62

All: 1.161+/-0.000 χ^2/NDF : 1221178470055.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4161928.8/34

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5279320.5/37

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

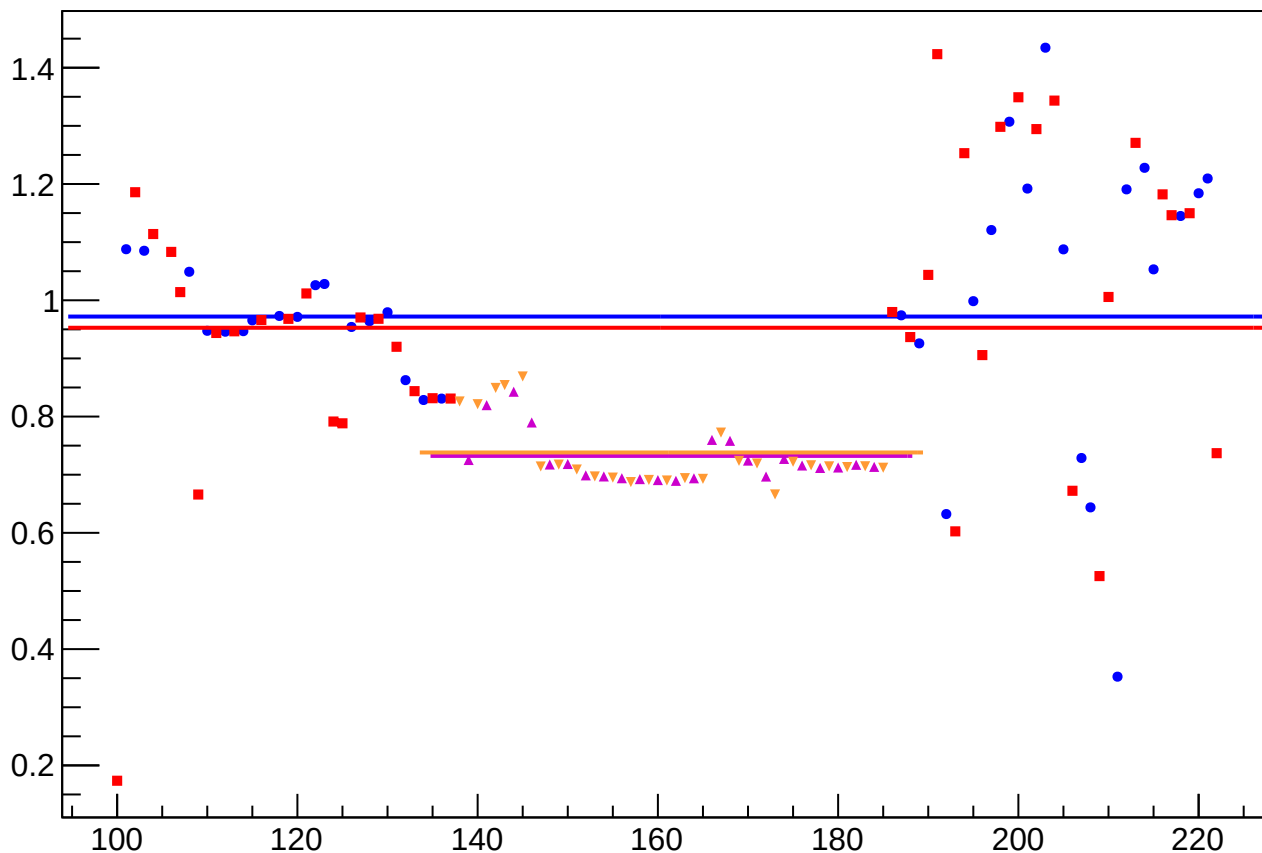
Right: 0.020+/-0.000 χ^2/NDF : 9453142.1/72

In: 0.015+/-0.000 χ^2/NDF :8089684.5/57

Out: 0.015+/-0.000 χ^2/NDF :10267434.6/62

All: 0.015+/-0.000 χ^2/NDF : 18367645.5/120

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.972+/-0.000 χ^2/NDF : 1120628521.4/34

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.953+/-0.000 χ^2/NDF : 1401433882.8/37

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

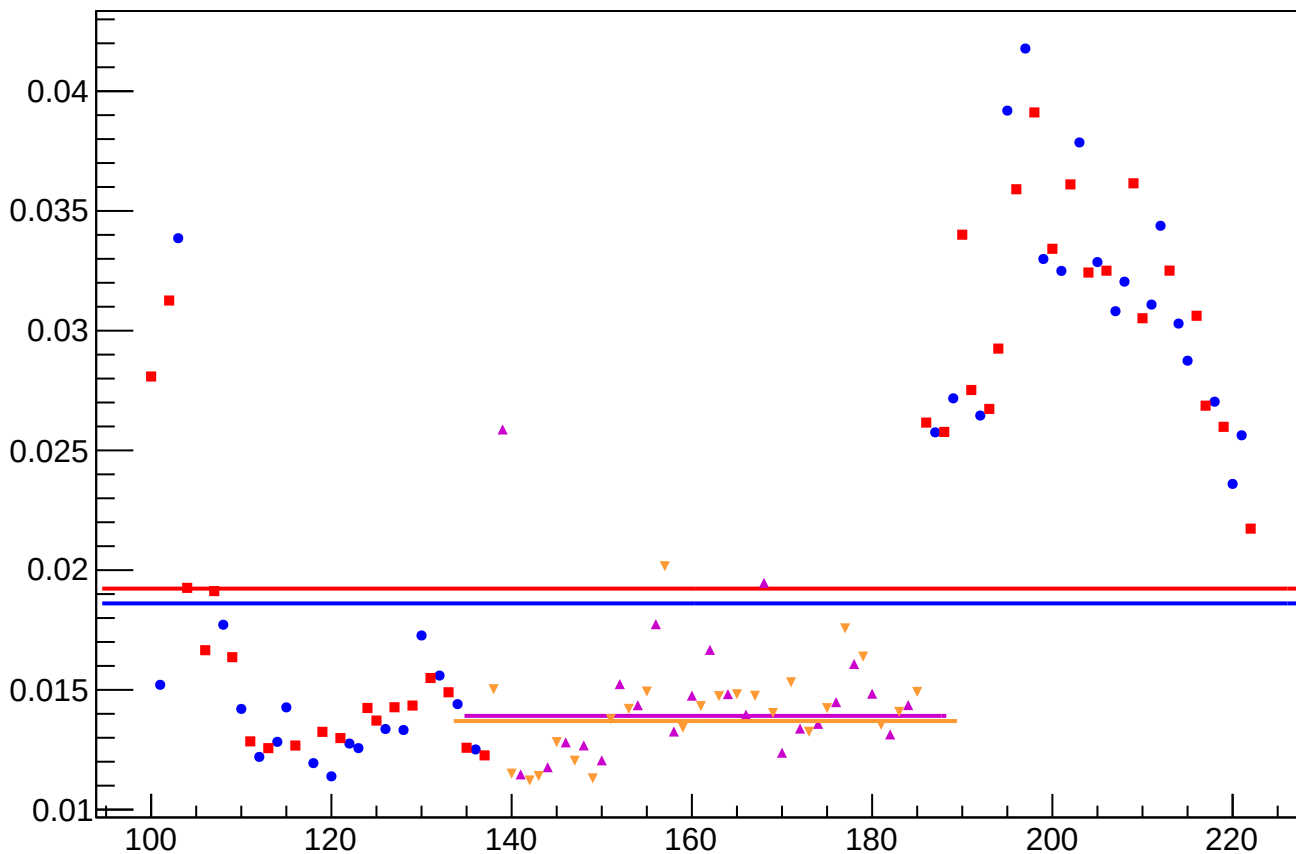
Right: 0.962+/-0.000 χ^2/NDF : 2530098440.9/72

In: 0.816+/-0.000 χ^2/NDF : 2902823532.1/57

Out: 0.810+/-0.000 χ^2/NDF : 3042943651.1/62

All: 0.813+/-0.000 χ^2/NDF : 5948043458.3/12

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5864633.3/34

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5265097.0/37

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

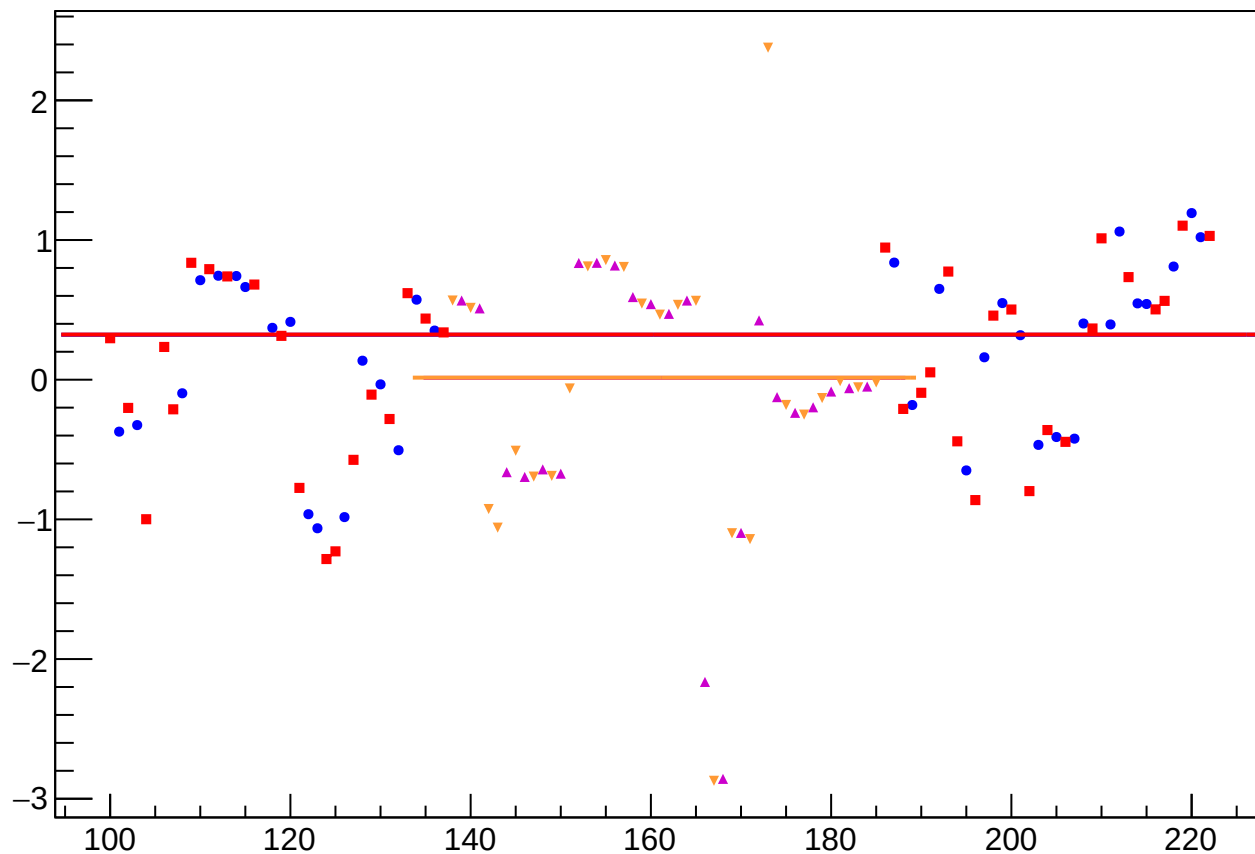
Right: 0.019+/-0.000 χ^2/NDF : 11146215.0/72

In: 0.016+/-0.000 χ^2/NDF : 7897668.5/57

Out: 0.016+/-0.000 χ^2/NDF : 7565335.6/62

All: 0.016+/-0.000 χ^2/NDF : 15463006.9/120

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.322+/-0.000

χ^2/NDF : 46946121197.4/34

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right: 0.322+/-0.000

χ^2/NDF : 102240351050.3/72

Right Out: 0.323+/-0.000

χ^2/NDF : 55294084856.6/37

In: 0.187+/-0.000

χ^2/NDF : 132093186412.0/57

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

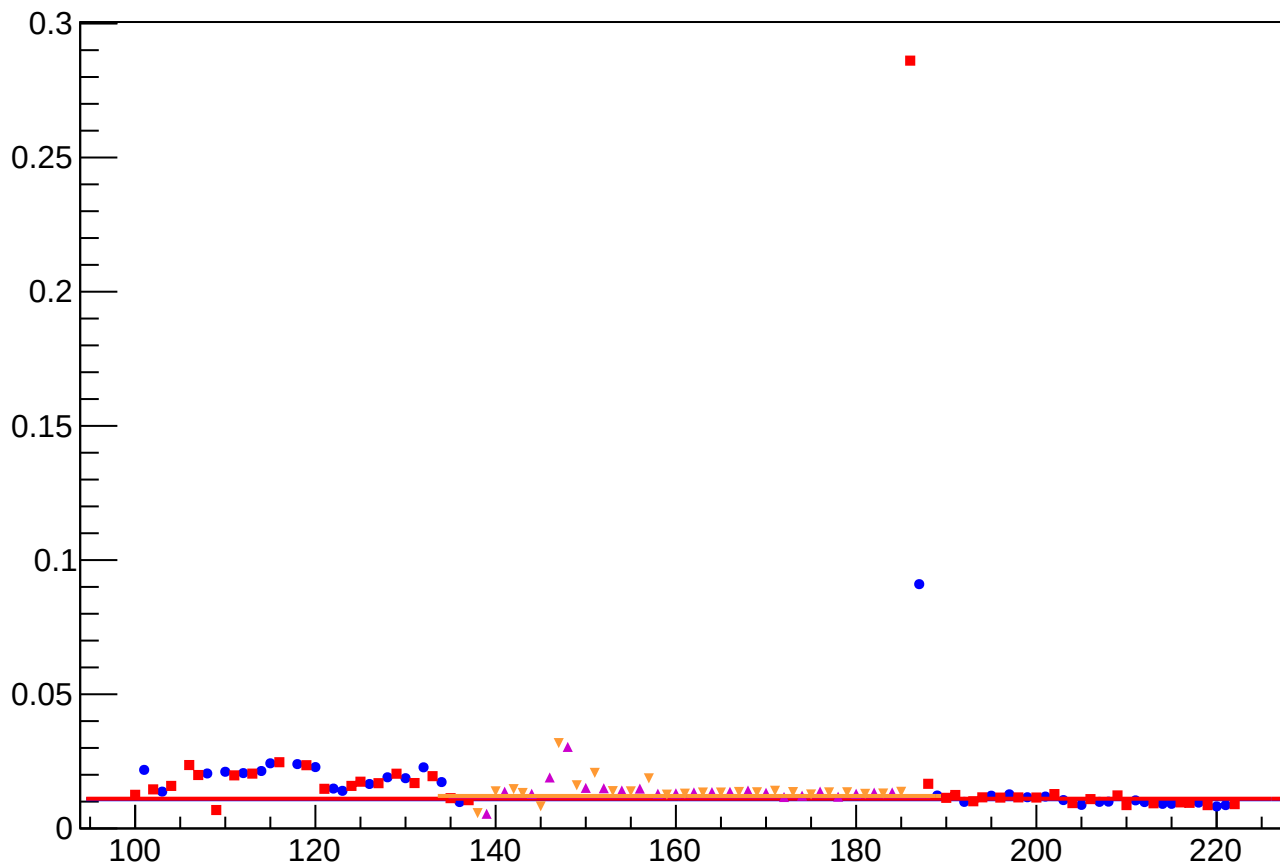
Out: 0.186+/-0.000

χ^2/NDF : 157149177345.1/62

All: 0.186+/-0.000

χ^2/NDF : 289242476343.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2869641.7/34

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3310389.8/37

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

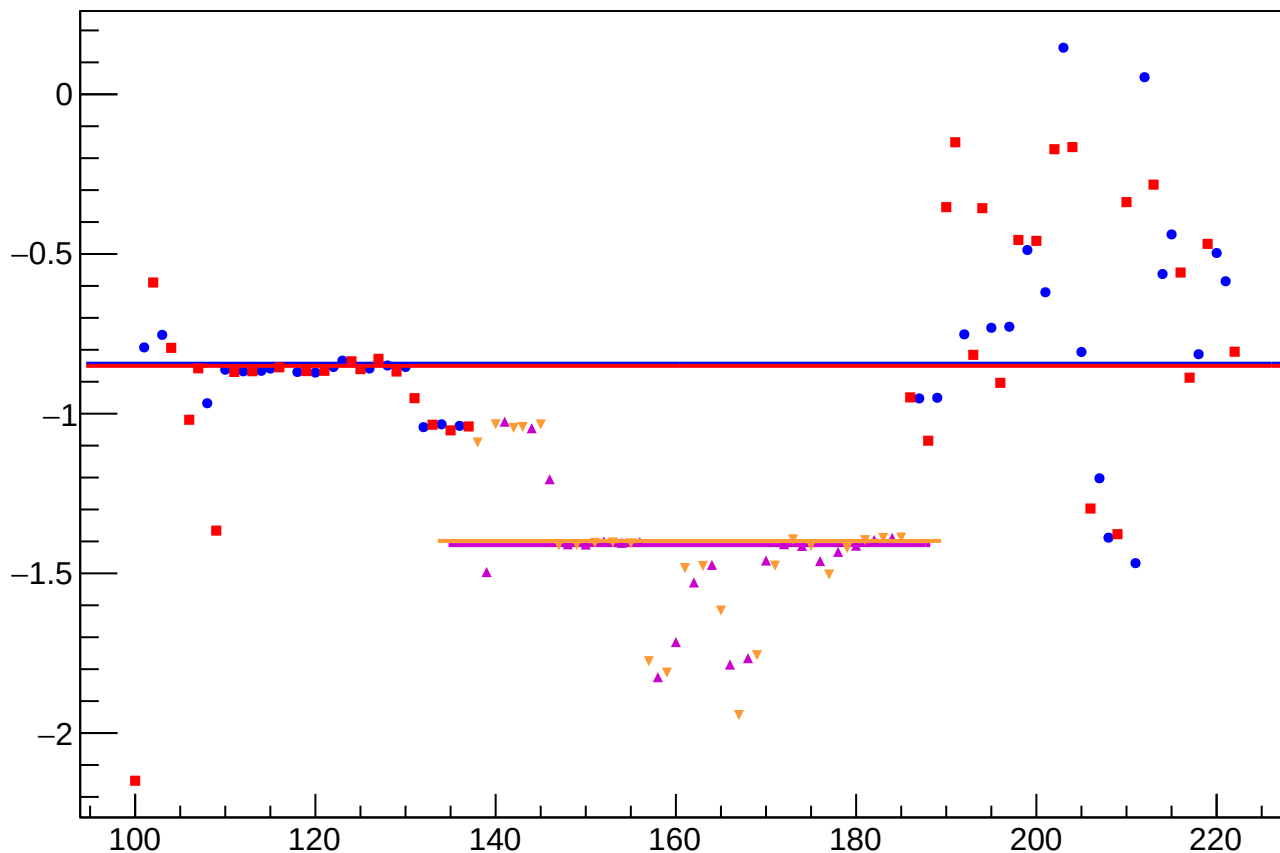
Right: 0.011+/-0.000 χ^2/NDF : 6185764.2/72

In: 0.011+/-0.000 χ^2/NDF :6106142.7/57

Out: 0.012+/-0.000 χ^2/NDF :6546052.6/62

All: 0.011+/-0.000 χ^2/NDF : 12662562.4/120

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.844 ± 0.000 $\chi^2/\text{NDF}: 403900937.4/34$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.850 ± 0.000 $\chi^2/\text{NDF}: 518479483.2/37$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

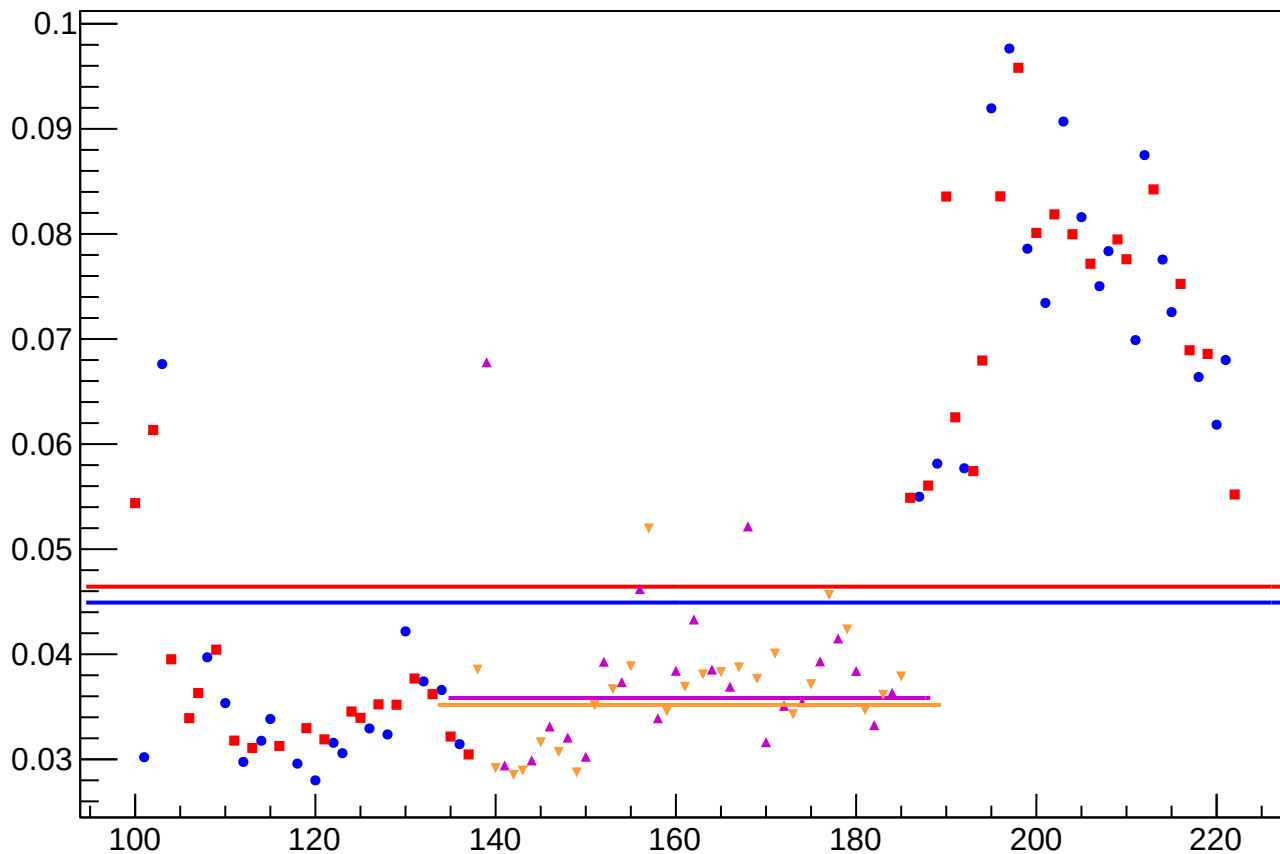
Right: -0.847 ± 0.000 $\chi^2/\text{NDF}: 922551122.5/72$

In: -1.193 ± 0.000 $\chi^2/\text{NDF}: 2405375374.3/57$

Out: -1.197 ± 0.000 $\chi^2/\text{NDF}: 2687786627.9/62$

All: -1.195 ± 0.000 $\chi^2/\text{NDF}: 5093343953.2/119$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 5772155.8/34

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.046+/-0.000 χ^2/NDF : 4959059.2/37

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

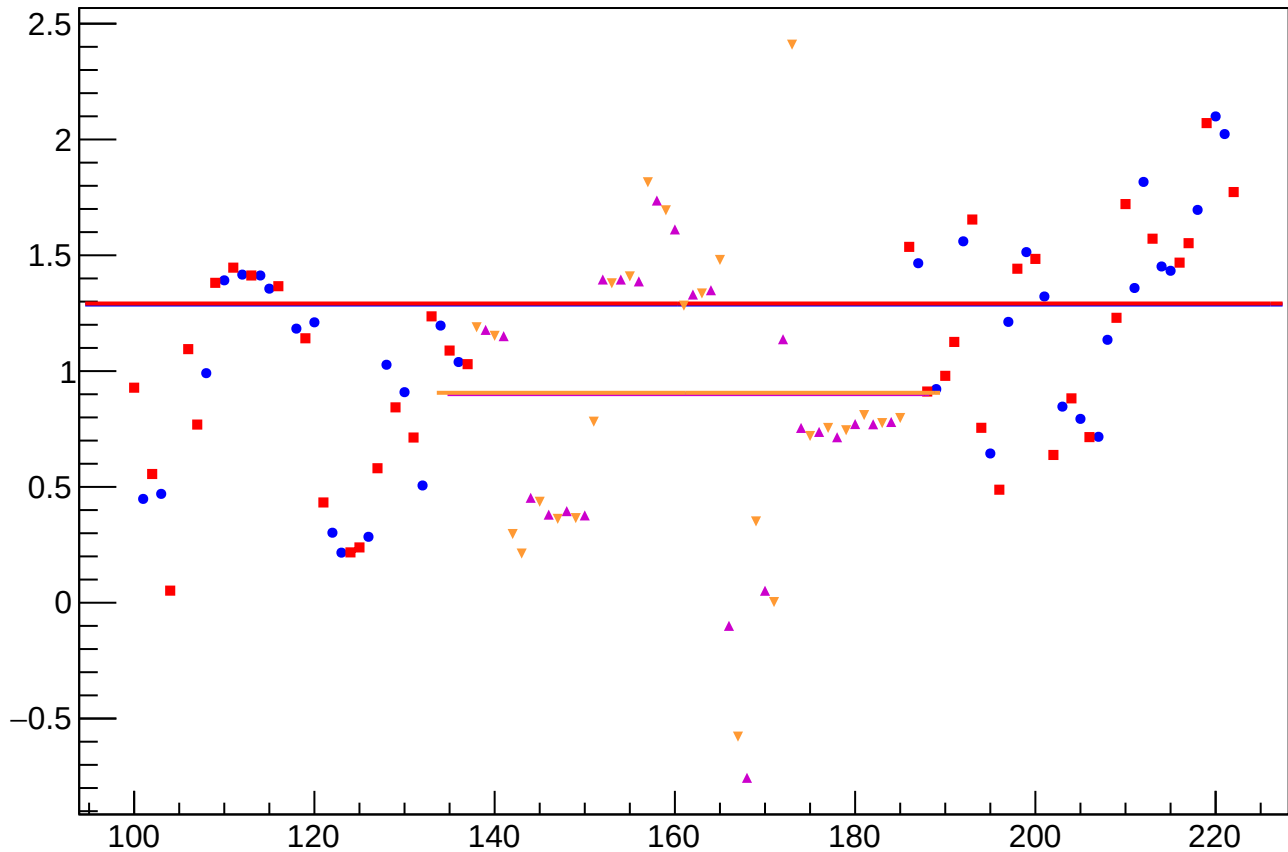
Right: 0.046+/-0.000 χ^2/NDF : 10748423.8/72

In: 0.039+/-0.000 χ^2/NDF : 7424442.1/57

Out: 0.039+/-0.000 χ^2/NDF : 6765468.0/62

All: 0.039+/-0.000 χ^2/NDF : 14189918.1/120

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.287 $\pm$ 0.000

χ^2 /NDF: 82952958702.7/34

Left: 0.904 $\pm$ 0.000

χ^2 /NDF: 151044220035.9/47

Left Out: 0.906 $\pm$ 0.000

χ^2 /NDF: 84108410196.2/24

Right: 1.290 $\pm$ 0.000

χ^2 /NDF: 160562476858.8/72

Right Out: 1.292 $\pm$ 0.000

χ^2 /NDF: 77605895526.1/37

In: 1.150 $\pm$ 0.000

χ^2 /NDF: 169966228275.3/57

Out: 1.142 $\pm$ 0.000

χ^2 /NDF: 181610995224.3/62

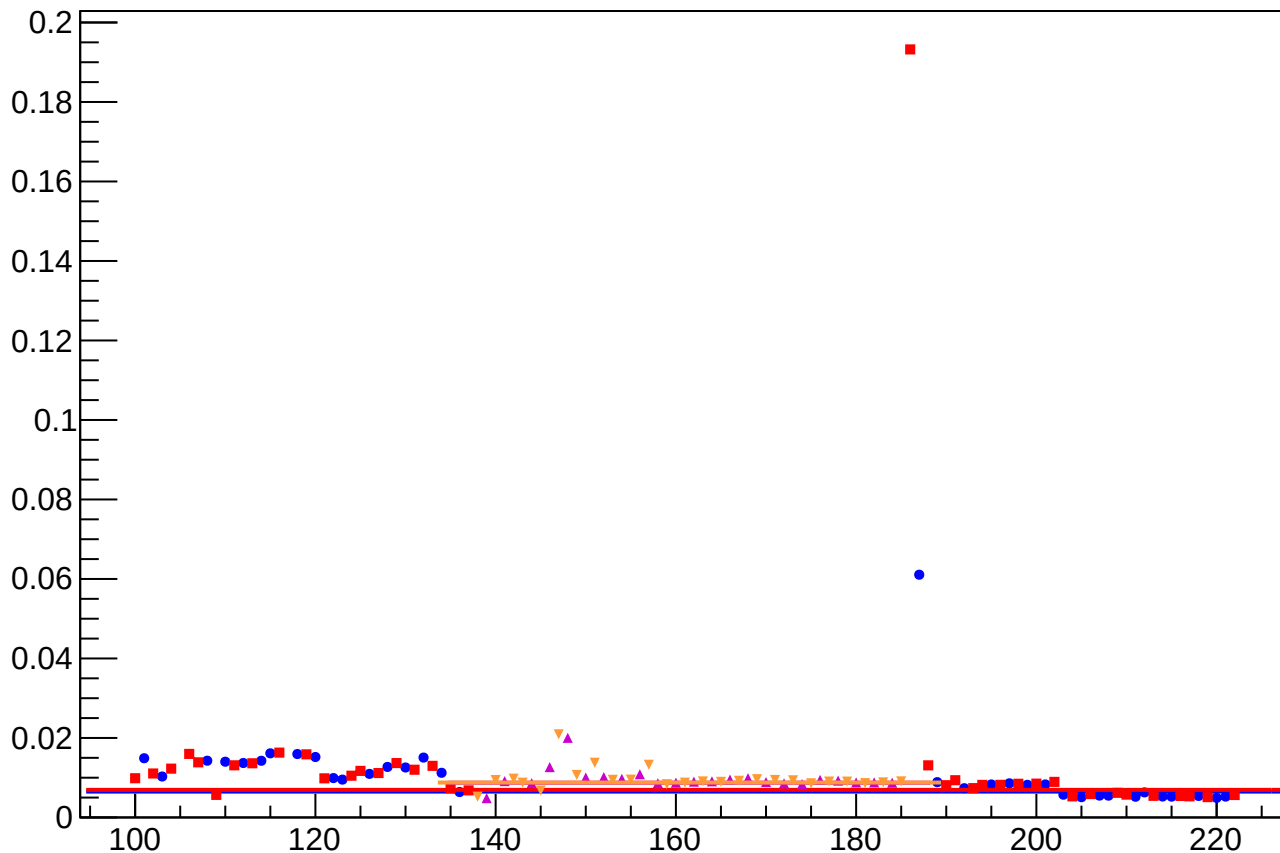
Left In: 0.901 $\pm$ 0.000

χ^2 /NDF: 66932223067.8/22

All: 1.146 $\pm$ 0.000

χ^2 /NDF: 351596859194.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4032641.4/34

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4413818.1/37

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

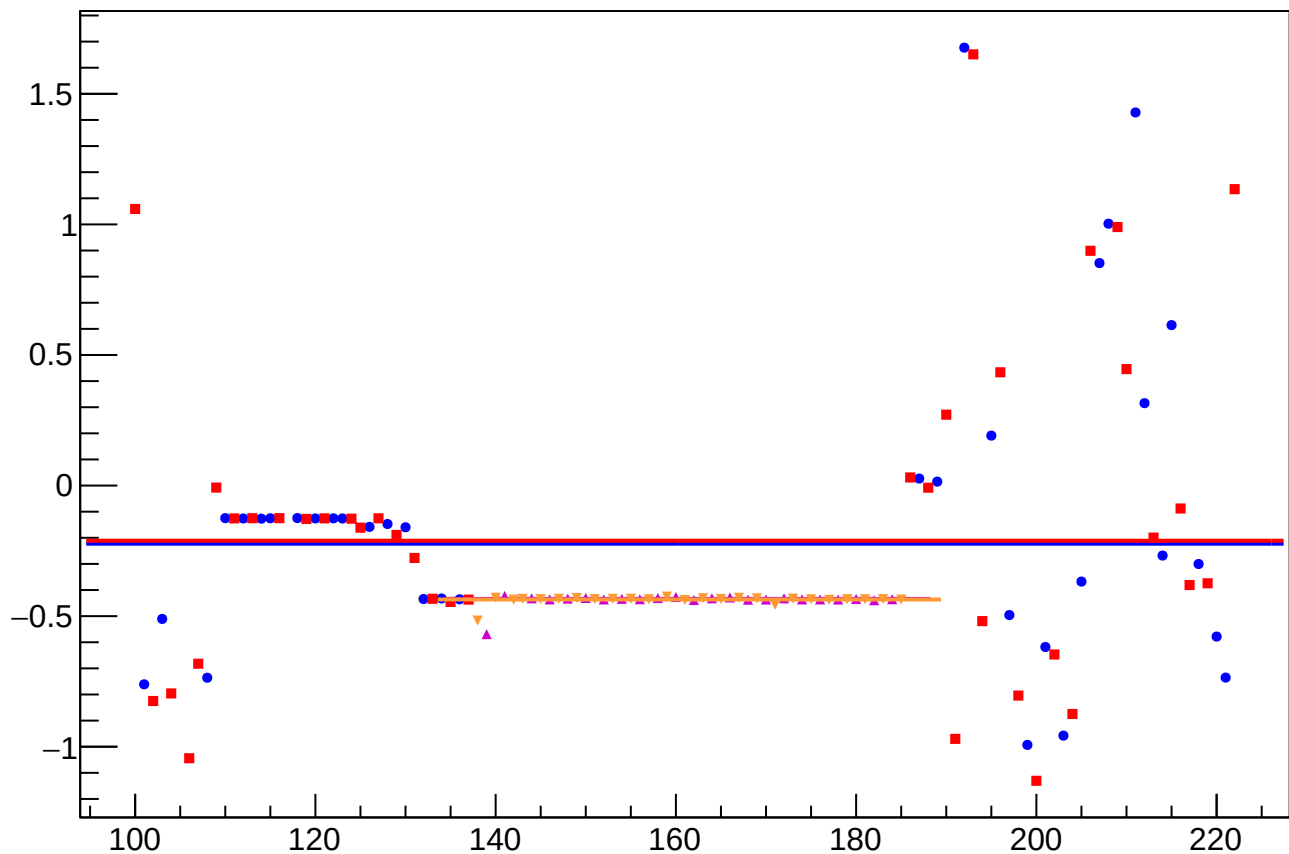
Right: 0.007+/-0.000 χ^2/NDF : 8513163.6/72

In: 0.007+/-0.000 χ^2/NDF :7030062.9/57

Out: 0.008+/-0.000 χ^2/NDF :7021223.8/62

All: 0.007+/-0.000 χ^2/NDF : 14124925.9/120

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.223 ± 0.000 $\chi^2/\text{NDF}: 5107791095.9/34$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 4362202932.9/37$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

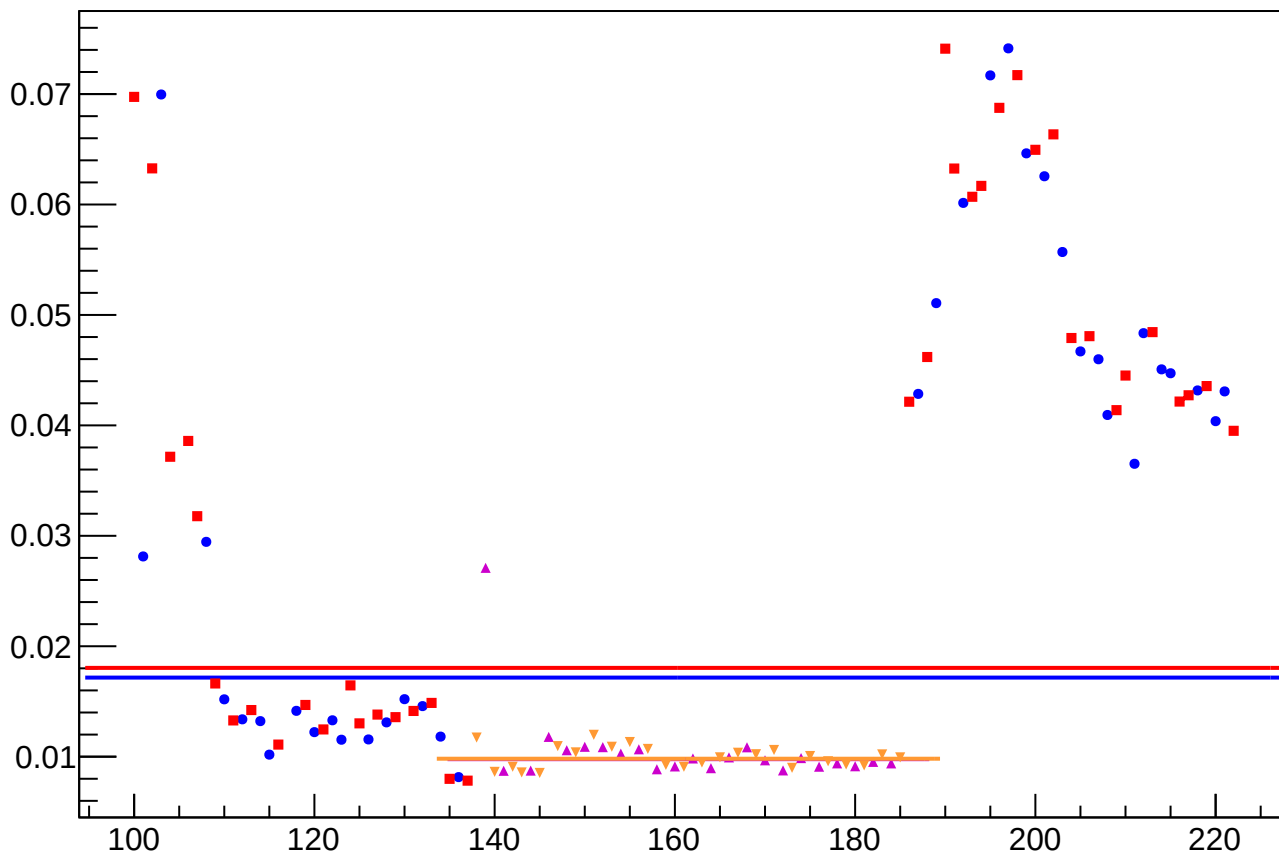
Right: -0.217 ± 0.000 $\chi^2/\text{NDF}: 9472289875.4/72$

In: -0.393 ± 0.000 $\chi^2/\text{NDF}: 6450317988.4/57$

Out: -0.396 ± 0.000 $\chi^2/\text{NDF}: 5844339864.6/62$

All: -0.395 ± 0.000 $\chi^2/\text{NDF}: 12295676457.0/119$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2/NDF : 13950831.8/34

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.018 $\pm$ 0.000 χ^2/NDF : 14309194.6/37

Left In: 0.010 $\pm$ 0.000 χ^2/NDF : 786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

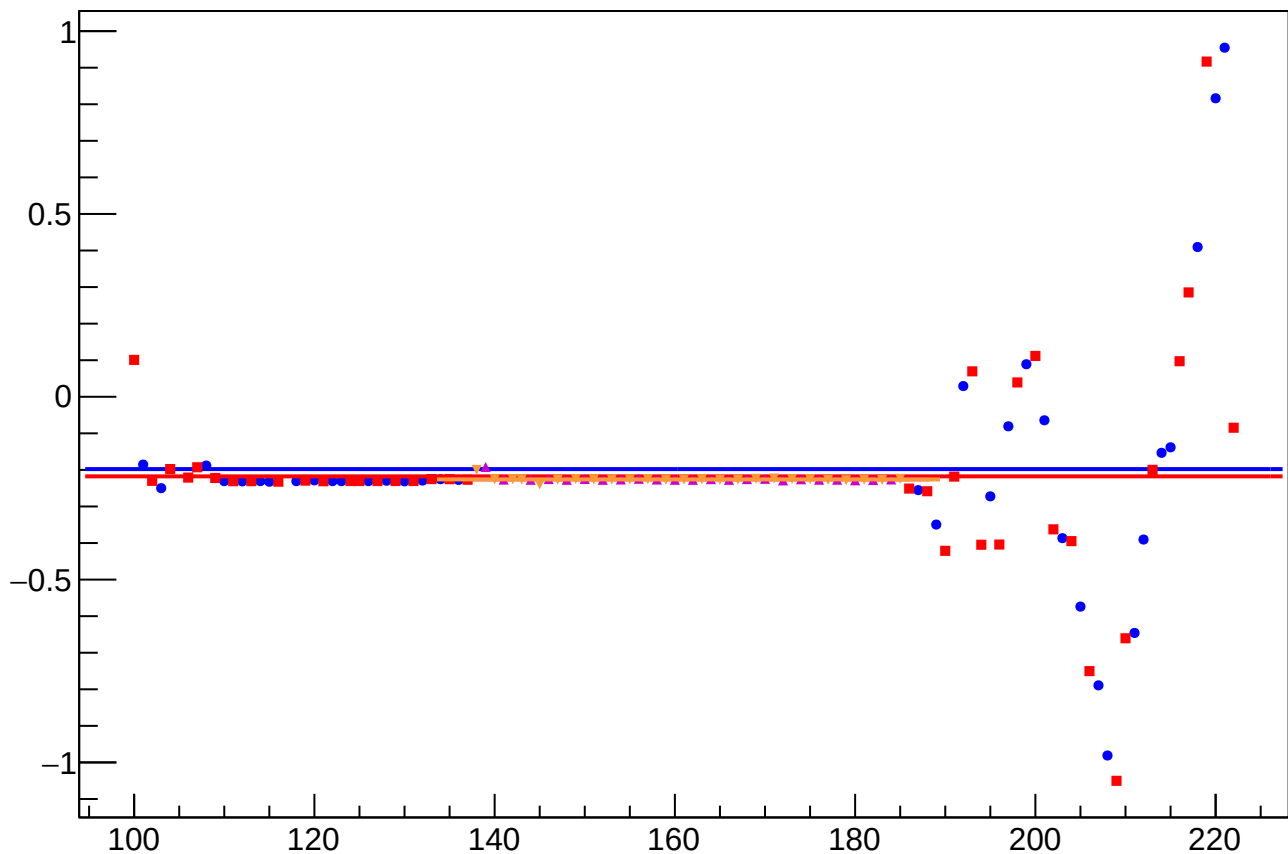
Right: 0.018 $\pm$ 0.000 χ^2/NDF : 28287680.8/72

In: 0.011 $\pm$ 0.000 χ^2/NDF : 17968626.1/57

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 18468017.9/62

All: 0.011 $\pm$ 0.000 χ^2/NDF : 36437602.8/120

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.198 ± 0.000 $\chi^2/\text{NDF}: 56821613719.4/34$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21207366.3/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 47107786935.6/37$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 13717302.5/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 34951372.2/47$

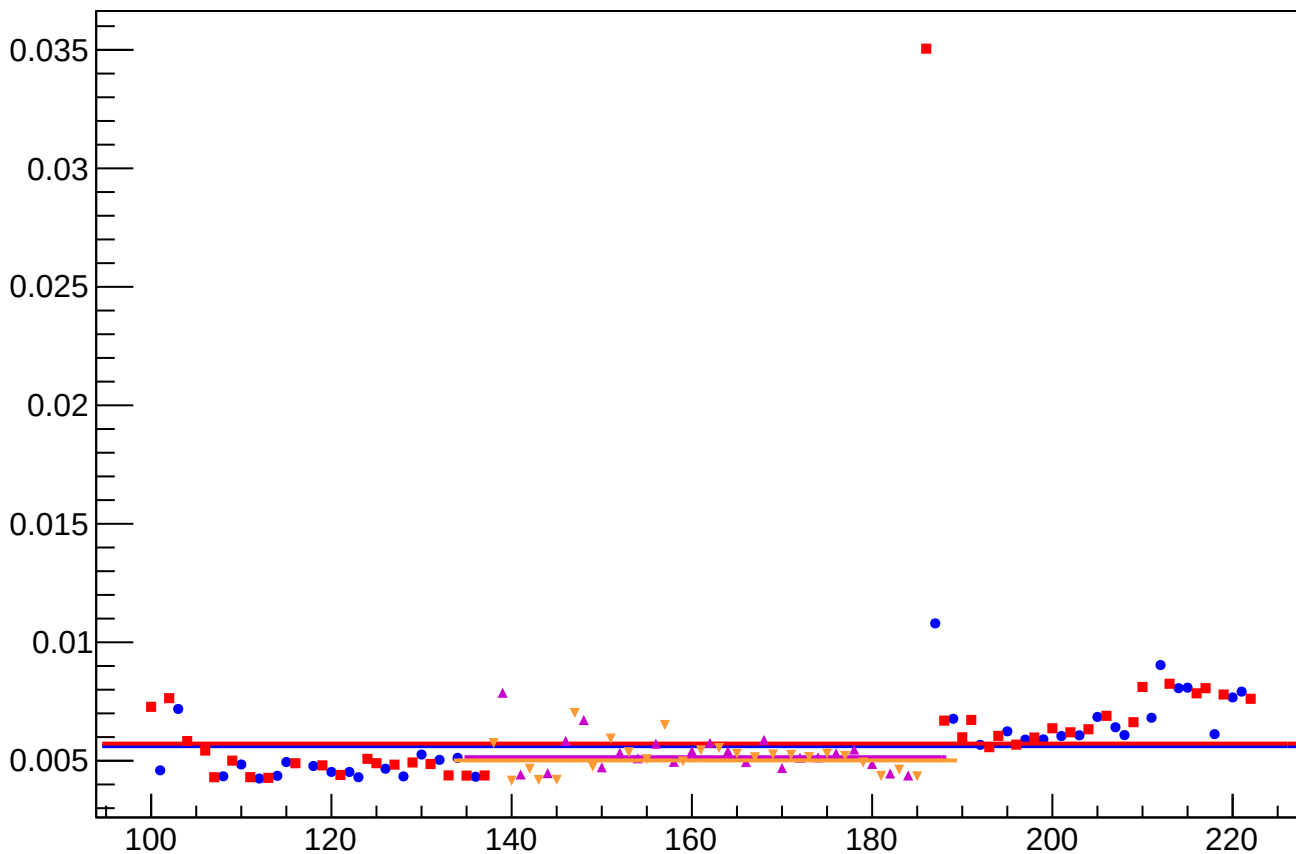
Right: -0.208 ± 0.000 $\chi^2/\text{NDF}: 104038037225.0/72$

In: -0.213 ± 0.000 $\chi^2/\text{NDF}: 57062438330.1/57$

Out: -0.222 ± 0.000 $\chi^2/\text{NDF}: 47150462376.6/62$

All: -0.218 ± 0.000 $\chi^2/\text{NDF}: 104269370706.6/113$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2/NDF : 1559196.5/34

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 2080115.9/37

Left In: 0.005 $\pm$ 0.000 χ^2/NDF : 504040.6/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 1048260.0/47

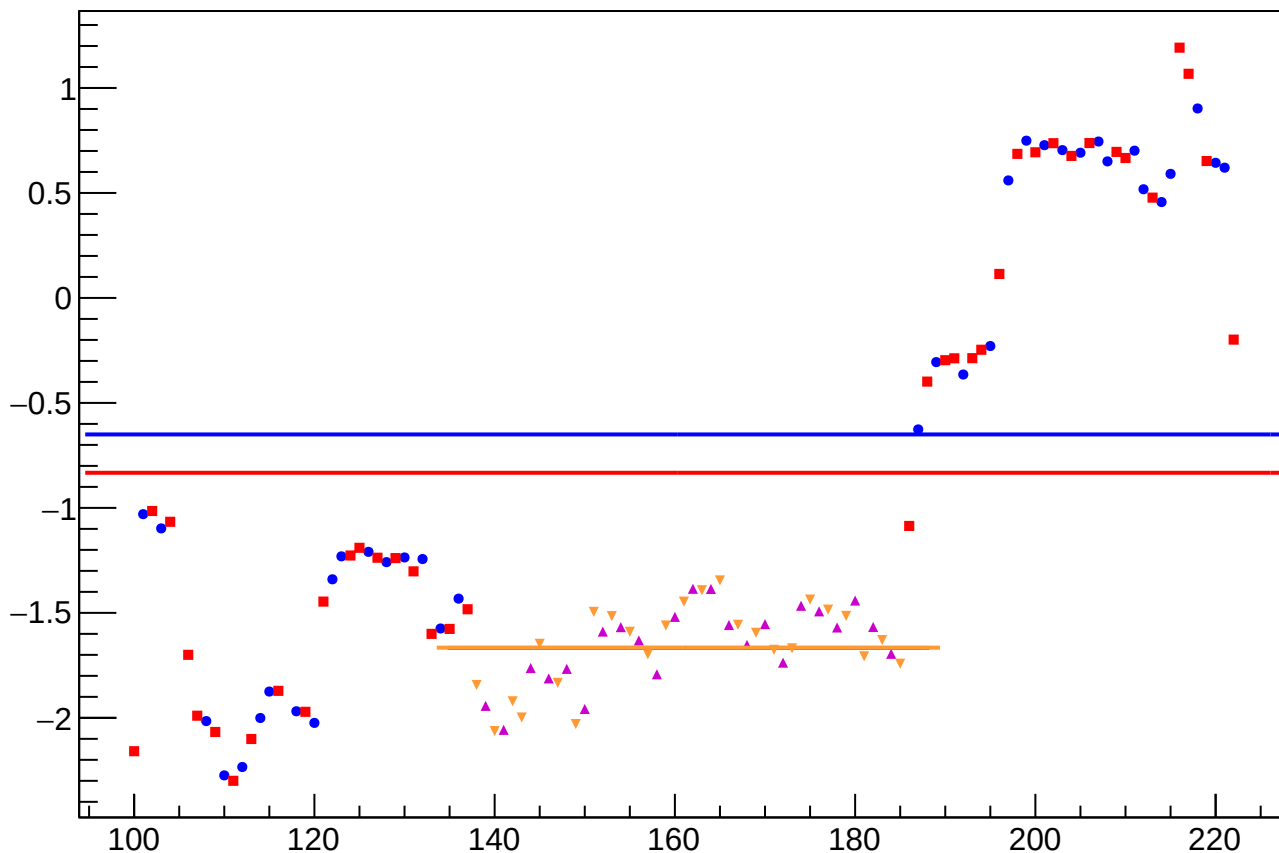
Right: 0.006 $\pm$ 0.000 χ^2/NDF : 3645686.8/72

In: 0.005 $\pm$ 0.000 χ^2/NDF : 2190884.5/57

Out: 0.005 $\pm$ 0.000 χ^2/NDF : 2920968.7/62

All: 0.005 $\pm$ 0.000 χ^2/NDF : 5113511.6/120

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.650+/-0.000

χ^2/NDF : 269171003032.0/34

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.747+/-0.000

χ^2/NDF : 577414691743.8/72

Right Out: -0.833+/-0.000

χ^2/NDF : 303951985982.0/37

In: -1.290+/-0.000

χ^2/NDF : 442264183719.3/57

Out: -1.347+/-0.000

χ^2/NDF : 439407761108.0/62

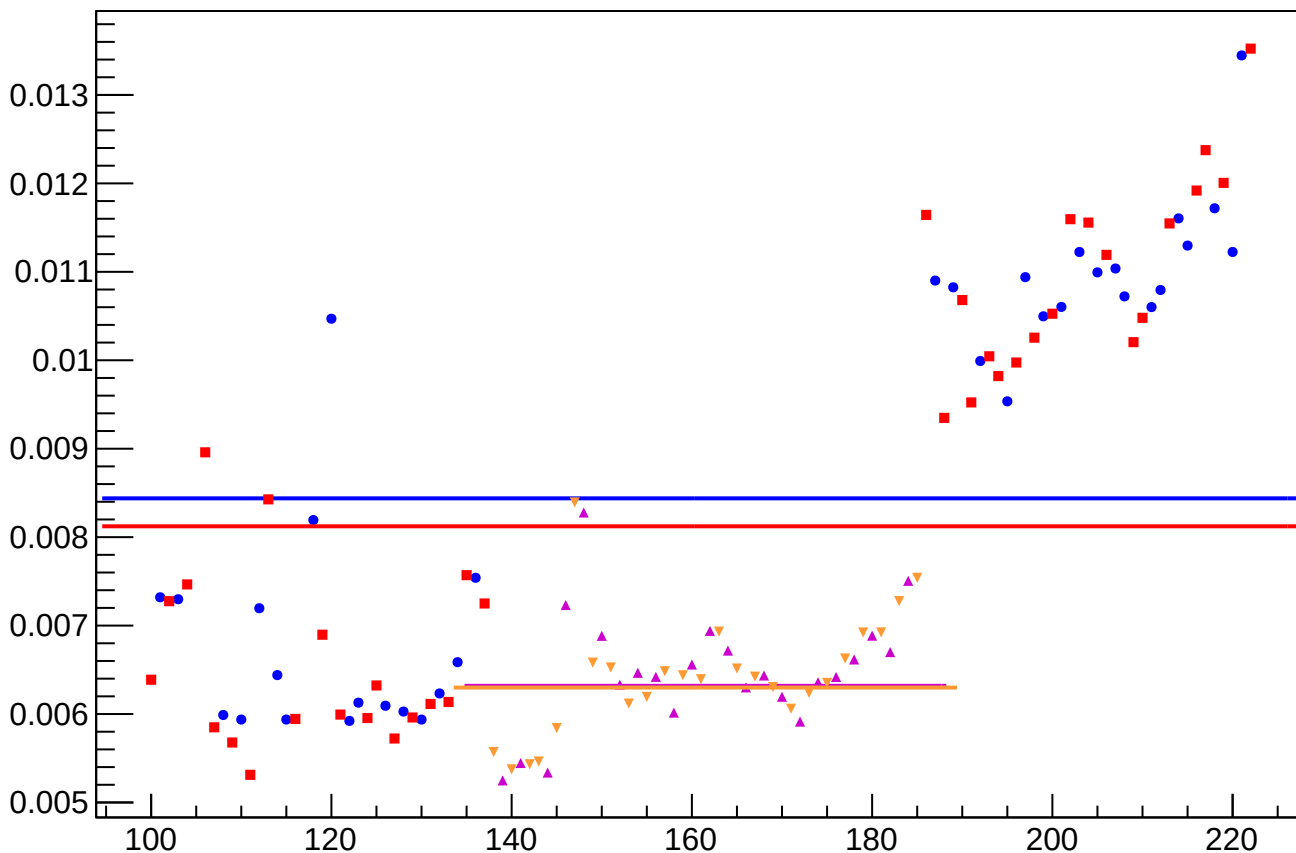
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.320+/-0.000

χ^2/NDF : 882792681445.4

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2432395.9/34

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3027249.0/37

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

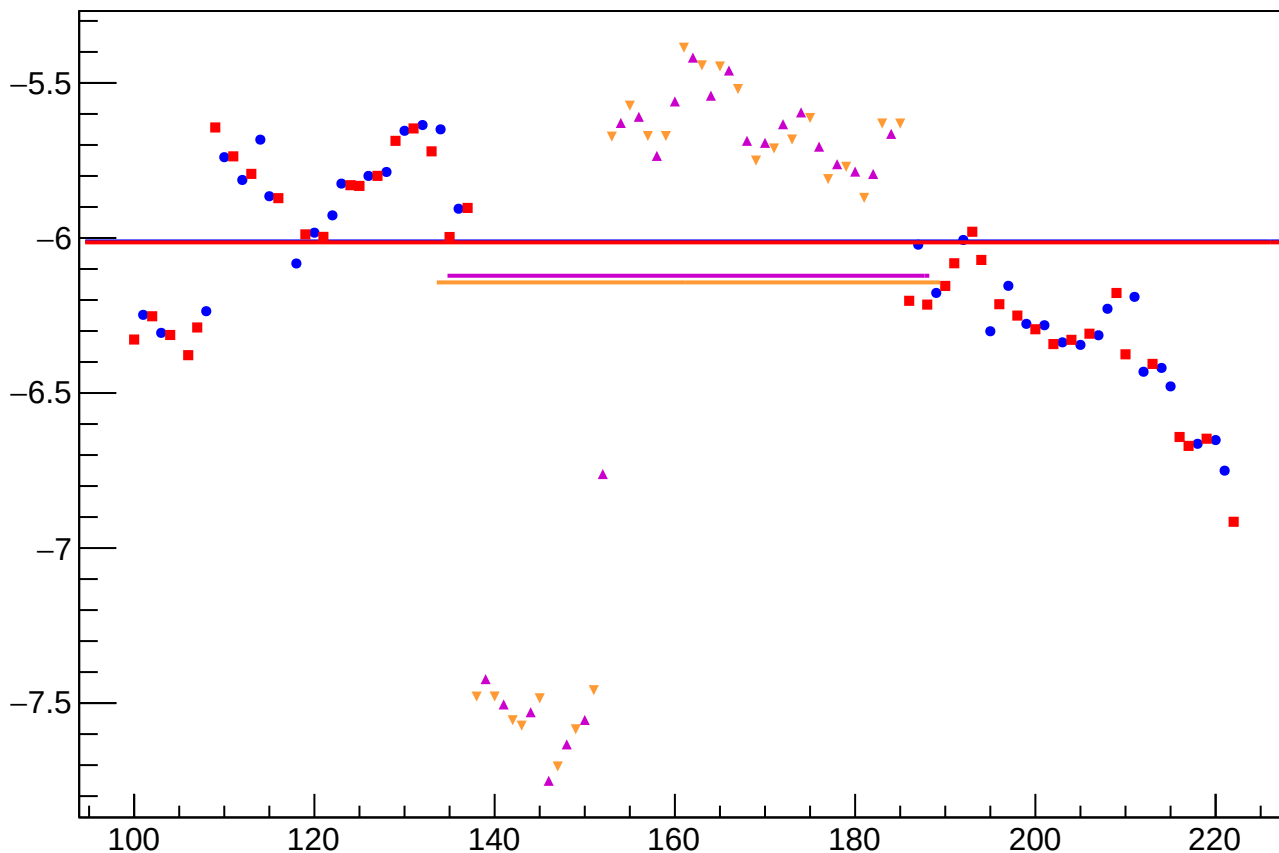
Right: 0.008+/-0.000 χ^2/NDF : 5485377.7/72

In: 0.007+/-0.000 χ^2/NDF :4144609.0/57

Out: 0.007+/-0.000 χ^2/NDF :4461963.3/62

All: 0.007+/-0.000 χ^2/NDF : 8614583.1/120

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.011+/-0.000 χ^2/NDF : 21781745847.9/34

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -6.014+/-0.000 χ^2/NDF : 24764882782.4/37

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

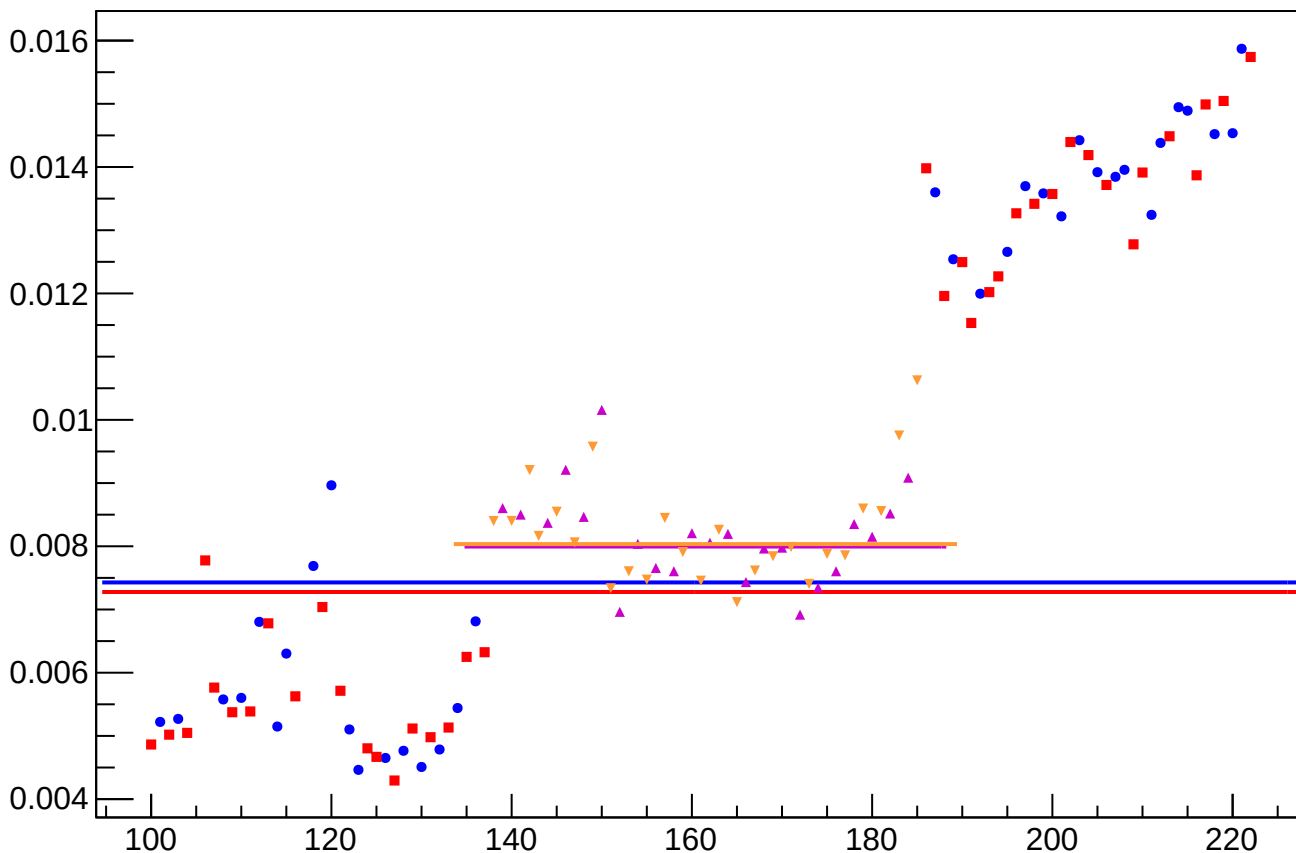
Right: -6.013+/-0.000 χ^2/NDF : 46547909209.6/72

In: -6.065+/-0.000 χ^2/NDF : 183267264566.5/57

Out: -6.075+/-0.000 χ^2/NDF : 212772426250.1/62

All: -6.070+/-0.000 χ^2/NDF : 396066511132.0

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7309673.8/34

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7437799.4/37

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

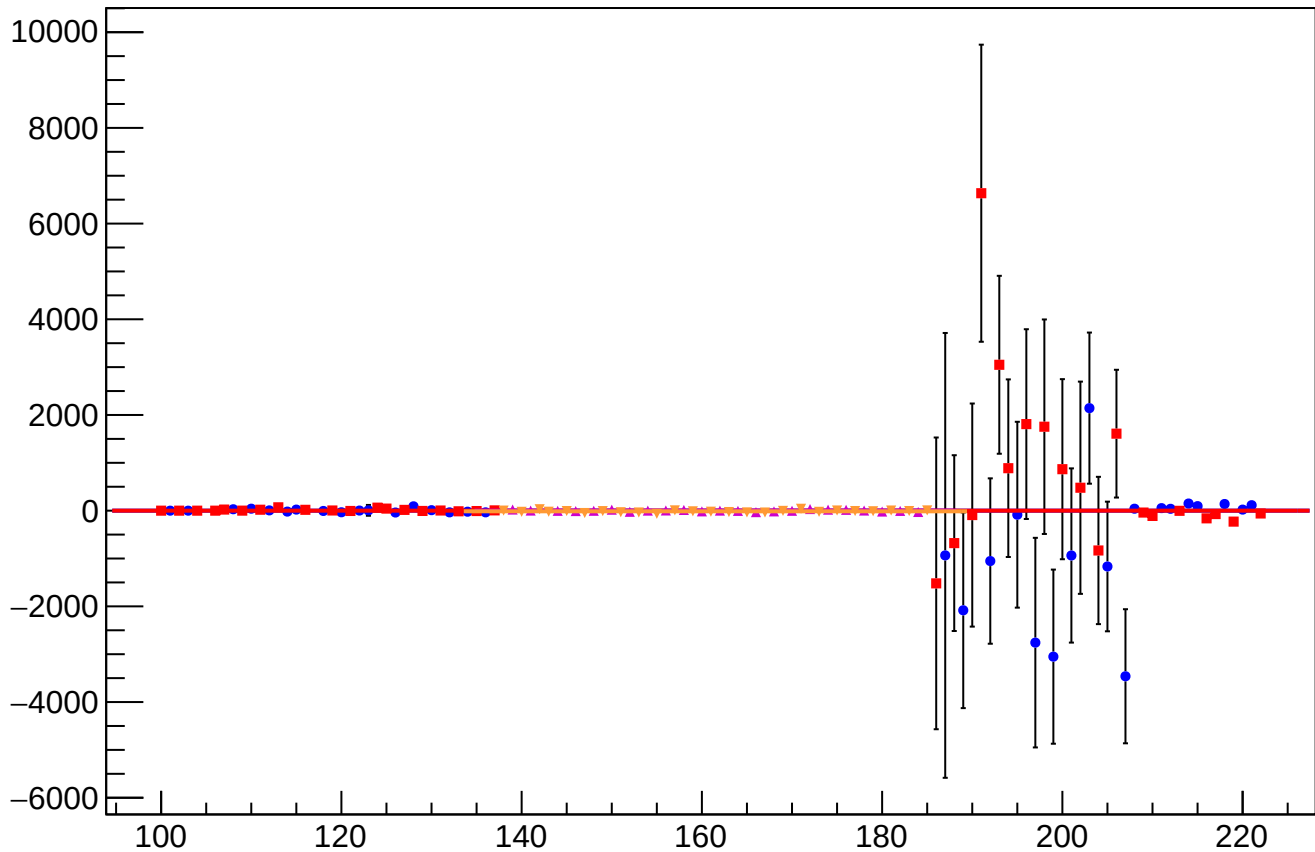
Right: 0.007+/-0.000 χ^2/NDF : 14753845.9/72

In: 0.008+/-0.000 χ^2/NDF :7612939.5/57

Out: 0.008+/-0.000 χ^2/NDF :7801228.9/62

All: 0.008+/-0.000 χ^2/NDF : 15416831.3/120

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 59.9/34$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 65.3/37$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

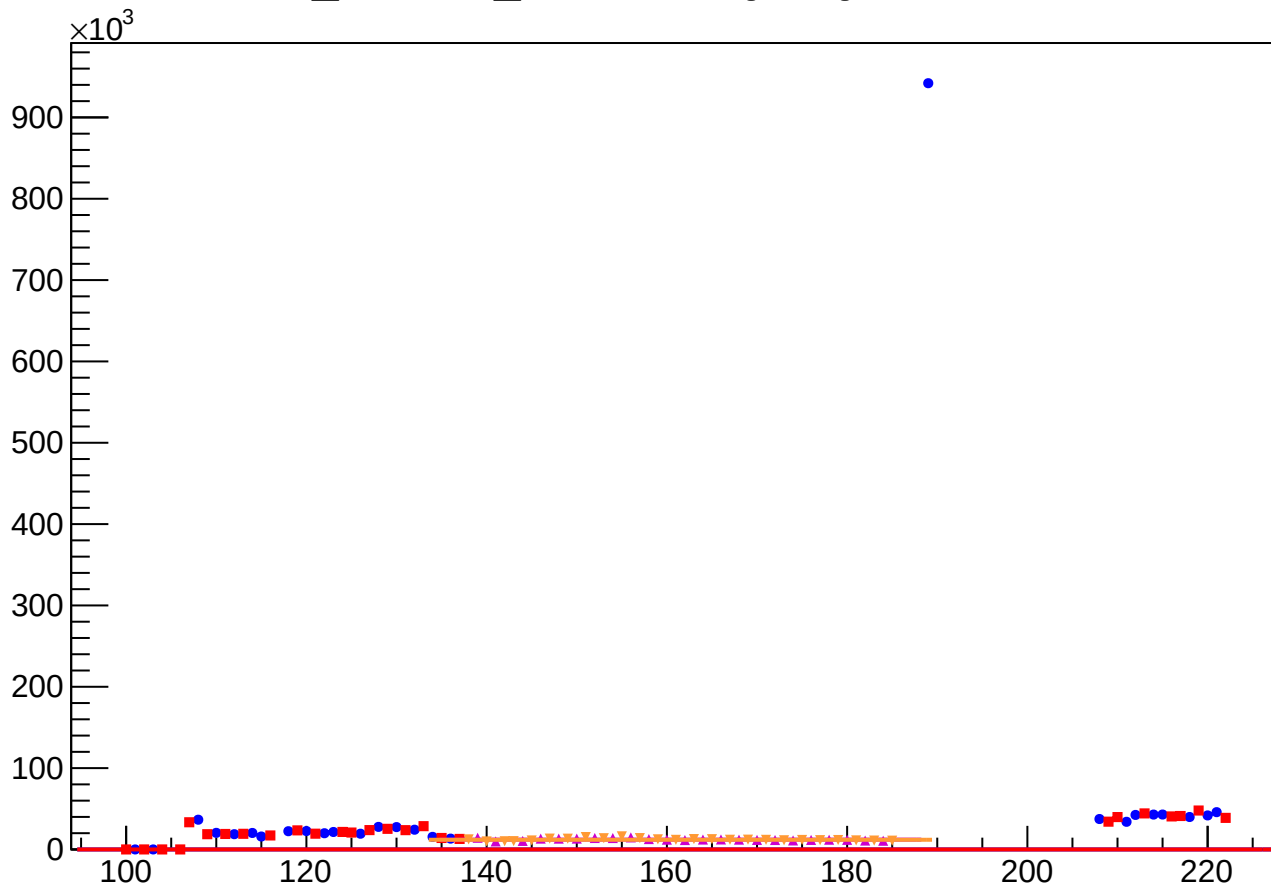
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 125.7/72$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 88.6/57$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 147.0/62$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 236.1/120$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.682+/-0.012 χ^2/NDF : 22172605.0/25

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.344+/-0.011 χ^2/NDF : 21515649.3/25

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

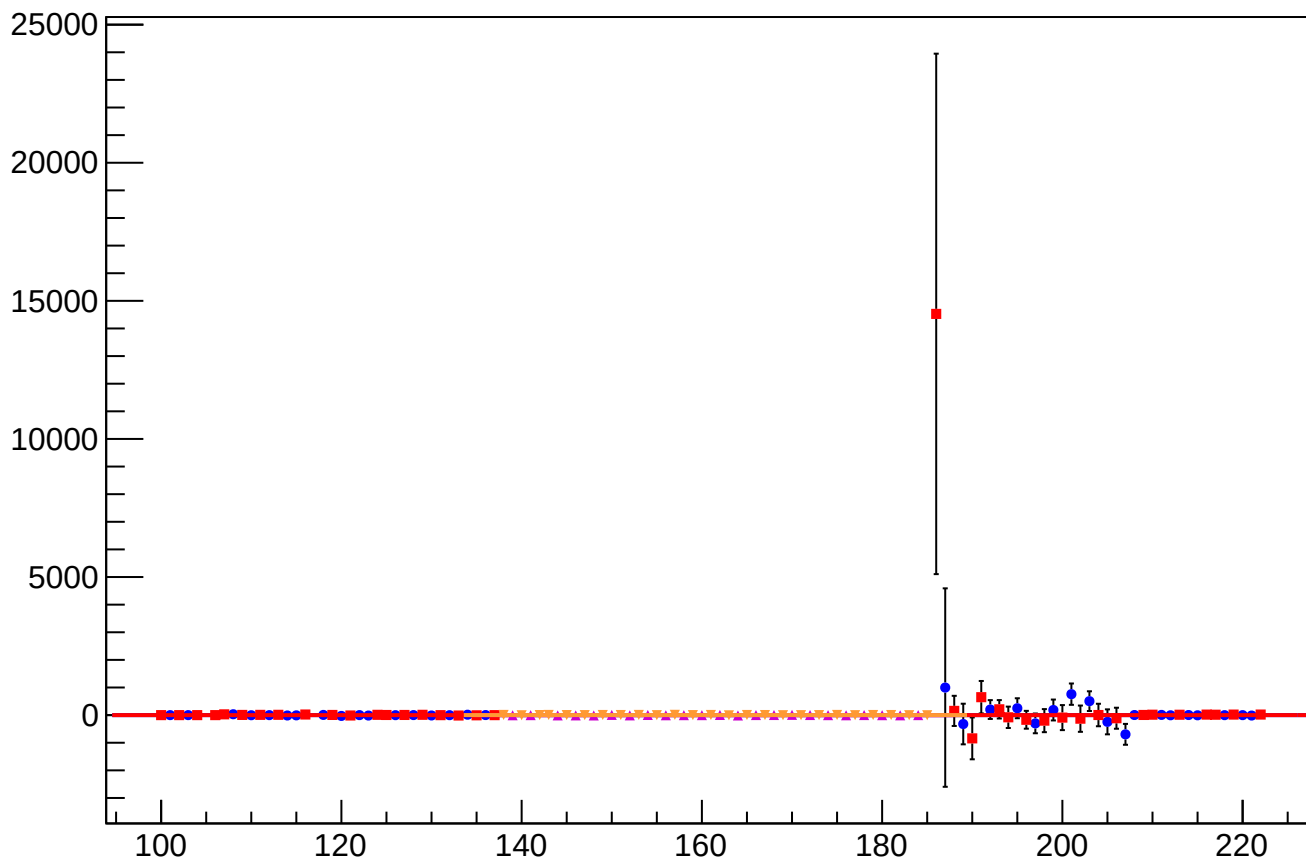
Right: 18.500+/-0.008 χ^2/NDF : 43688662.6/51

In: 19.111+/-0.012 χ^2/NDF : 56922859.5/48

Out: 18.737+/-0.011 χ^2/NDF : 58157887.9/50

All: 18.910+/-0.008 χ^2/NDF : 115081247.2/99

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 33.2/34

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF: 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 69.9/37

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

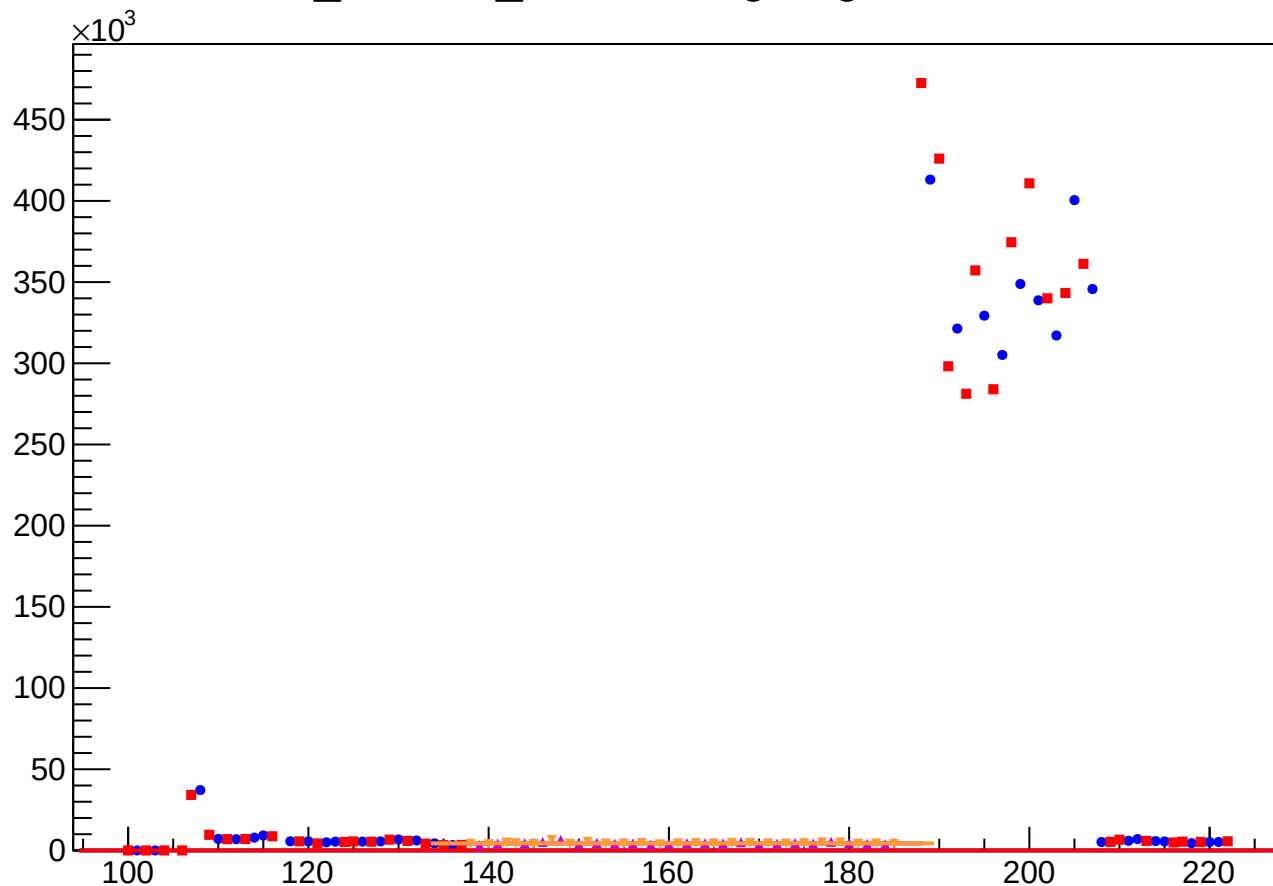
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 104.5/72

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 69.5/57

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 90.6/62

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 161.4/120

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.025+/-0.007 χ^2/NDF : 35561998.9/33

Left Out: 4350.545+/-0.722 χ^2/NDF : 384749.0/24

Right Out: 9.926+/-0.006 χ^2/NDF : 36271673.1/36

Left In: 4314.568+/-0.738 χ^2/NDF : 534594.3/22

Left: 4332.940+/-0.516 χ^2/NDF : 920558.3/47

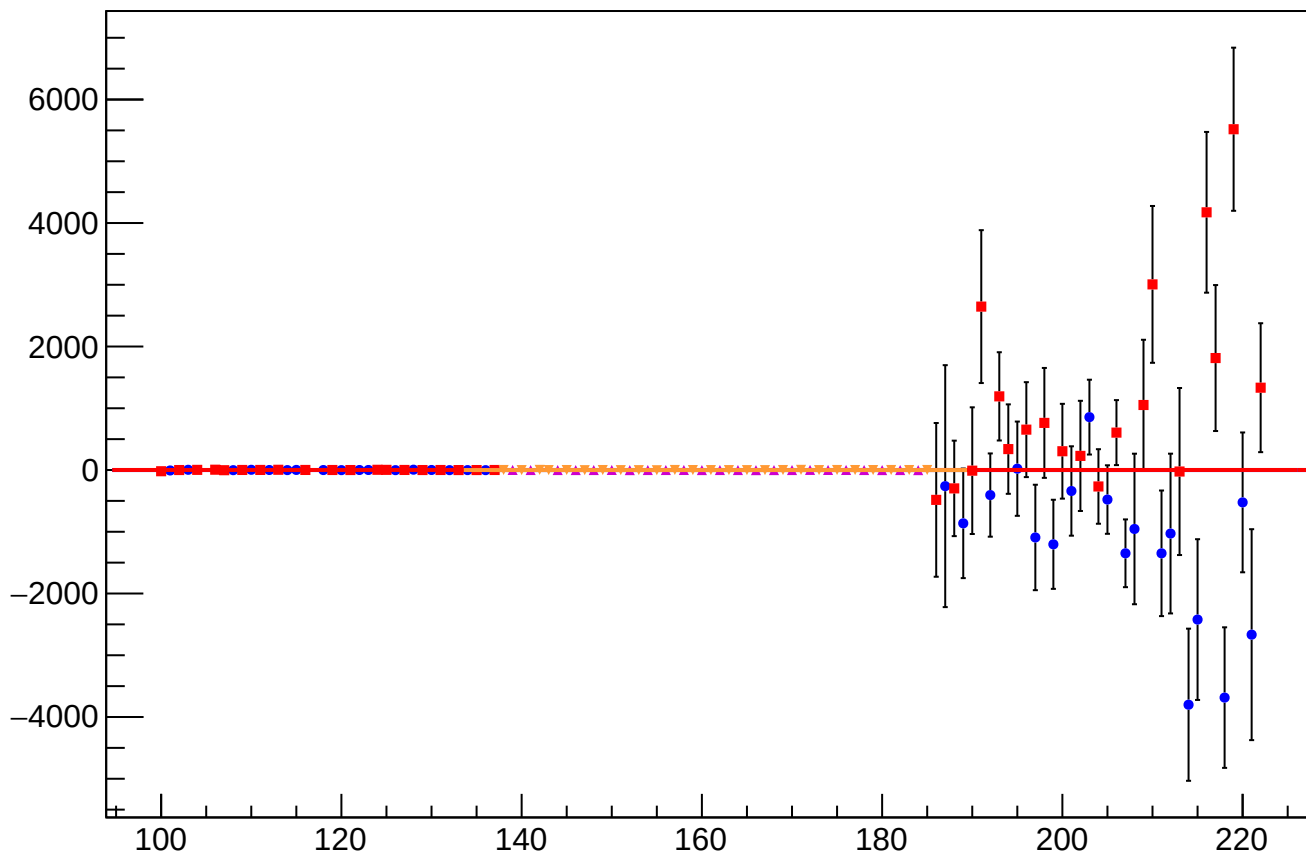
Right: 9.973+/-0.004 χ^2/NDF : 71833795.5/70

In: 10.360+/-0.007 χ^2/NDF : 70156645.2/56

Out: 10.237+/-0.006 χ^2/NDF : 72800205.8/61

All: 10.295+/-0.004 χ^2/NDF : 142957039.8/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 χ^2/NDF : 66.3/34

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.765 ± 0.502 χ^2/NDF : 61.1/37

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

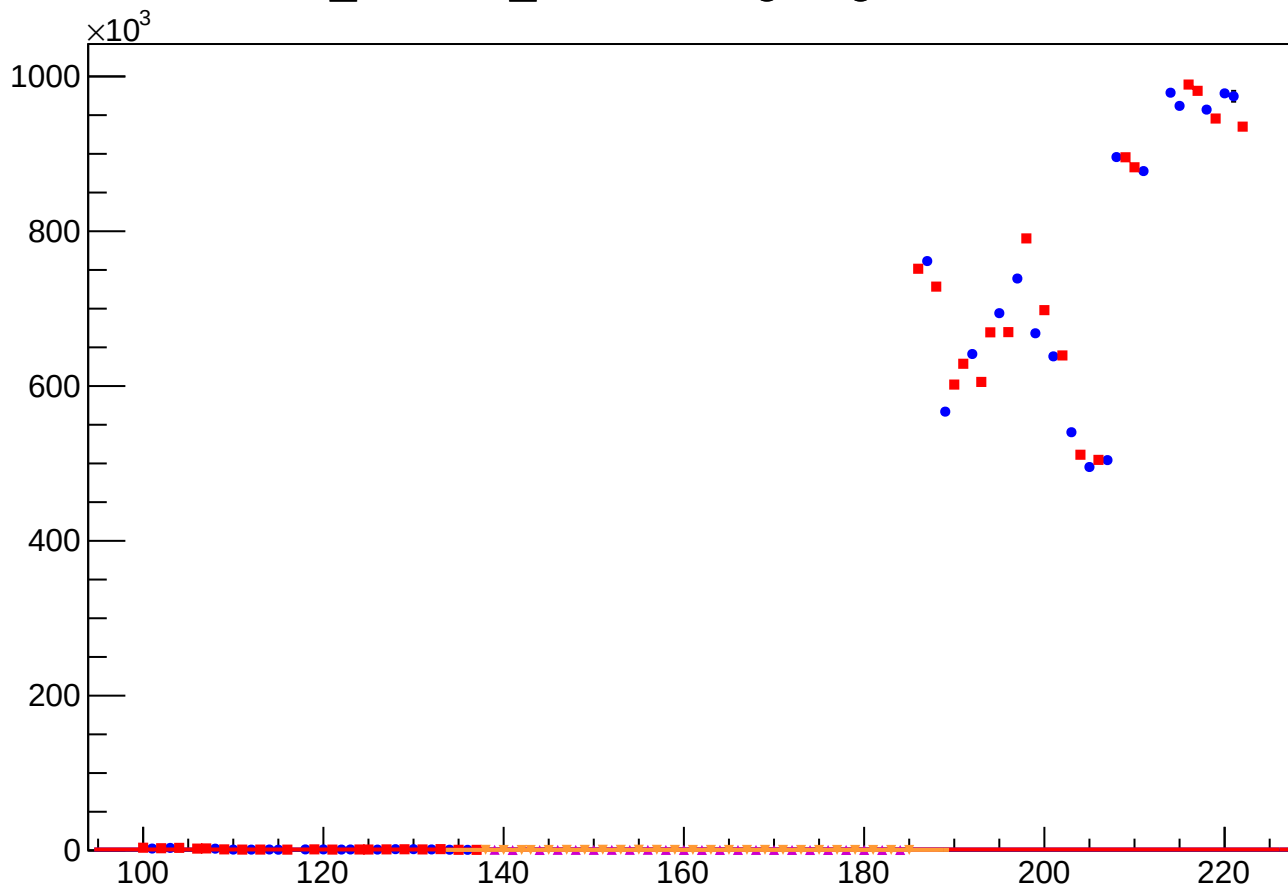
Right: 0.004 ± 0.349 χ^2/NDF : 131.9/72

In: -0.059 ± 0.161 χ^2/NDF : 97.6/57

Out: -0.626 ± 0.156 χ^2/NDF : 128.0/62

All: -0.350 ± 0.112 χ^2/NDF : 231.9/120

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.490+/-0.343 χ^2/NDF : 19732719.6/33

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.880+/-0.355 χ^2/NDF : 20898780.0/36

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

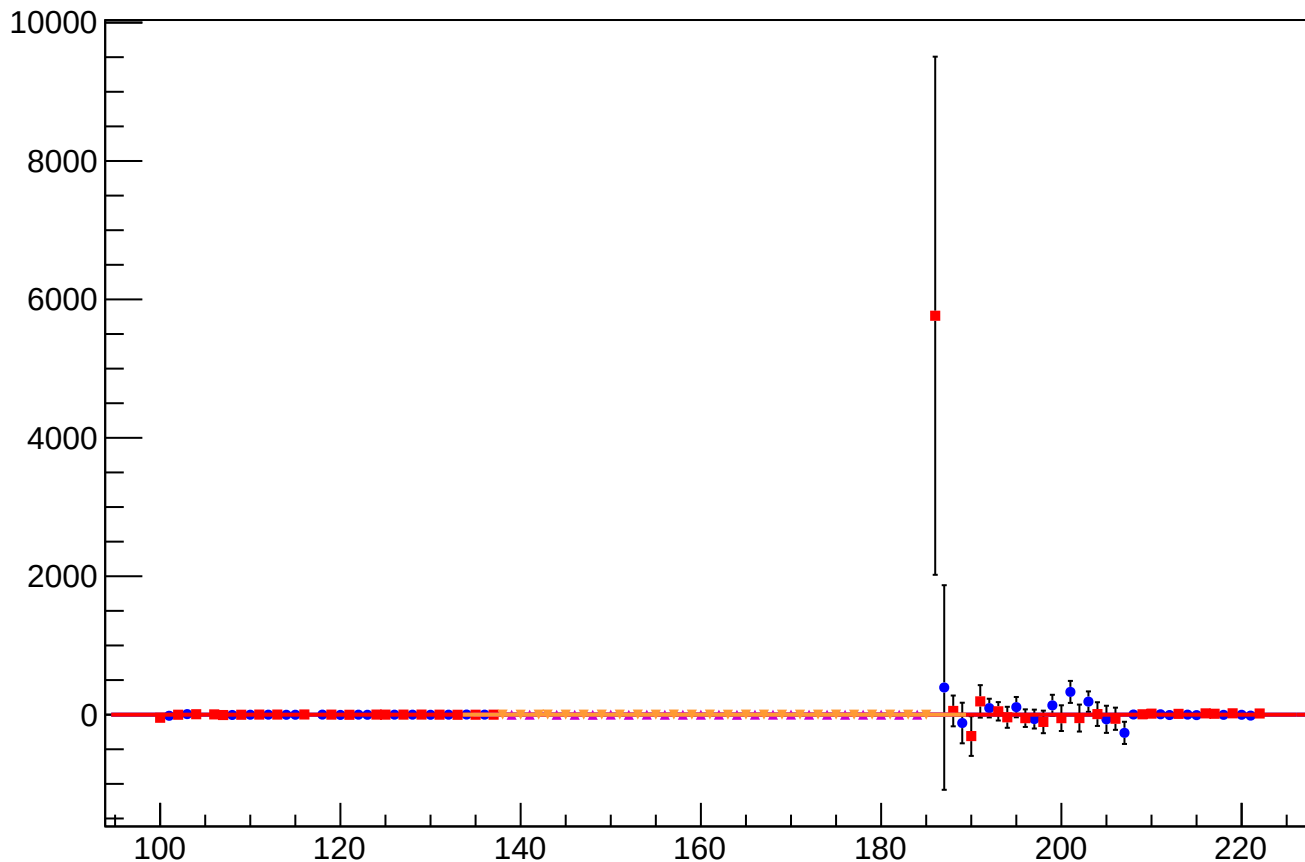
Right: 1208.708+/-0.247 χ^2/NDF : 40661423.3/70

In: 757.404+/-0.114 χ^2/NDF : 21676611.3/56

Out: 754.197+/-0.110 χ^2/NDF : 23475499.1/61

All: 755.756+/-0.079 χ^2/NDF : 45152520.5/117

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.103 ± 0.268 $\chi^2/\text{NDF}: 40.3/34$

Left Out: 0.236 ± 0.122 $\chi^2/\text{NDF}: 17.6/24$

Right Out: 0.022 ± 0.262 $\chi^2/\text{NDF}: 88.1/37$

Left In: -0.115 ± 0.125 $\chi^2/\text{NDF}: 35.0/22$

Left: 0.065 ± 0.088 $\chi^2/\text{NDF}: 56.6/47$

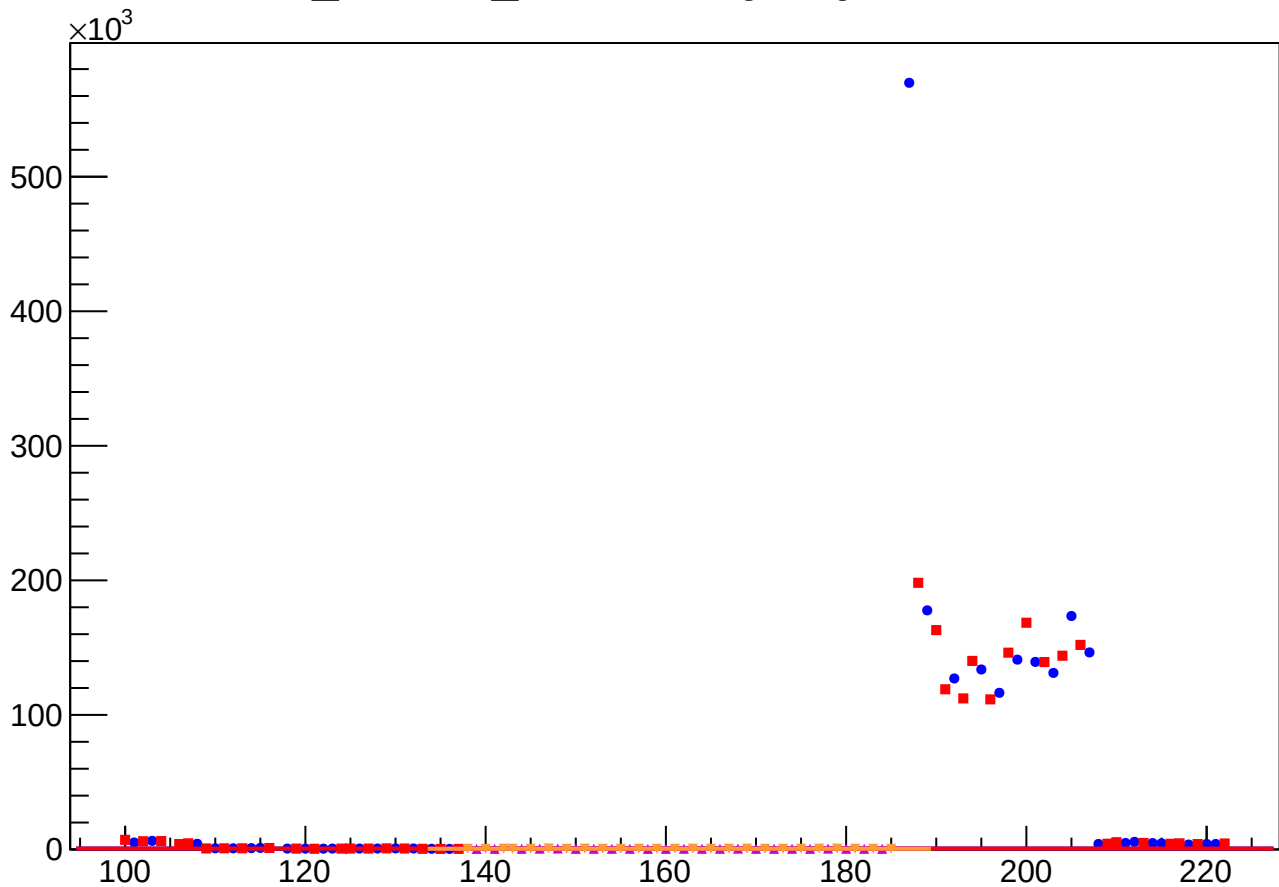
Right: -0.039 ± 0.187 $\chi^2/\text{NDF}: 128.5/72$

In: -0.113 ± 0.114 $\chi^2/\text{NDF}: 75.3/57$

Out: 0.198 ± 0.111 $\chi^2/\text{NDF}: 106.2/62$

All: 0.046 ± 0.079 $\chi^2/\text{NDF}: 185.4/120$

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 689.827+/-0.189 χ^2/NDF : 25054117.4/34

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 672.644+/-0.186 χ^2/NDF : 26001922.6/36

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

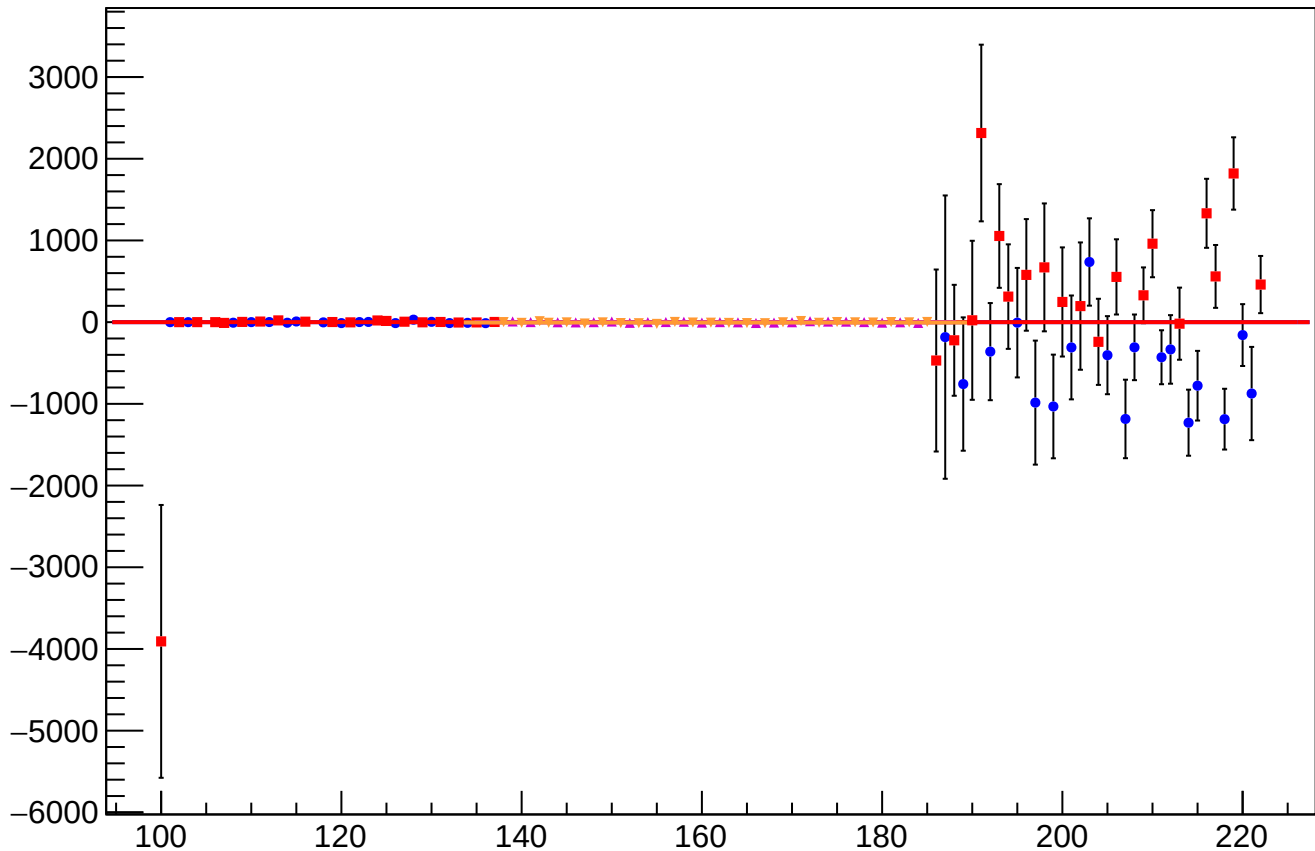
Right: 681.065+/-0.133 χ^2/NDF : 51060241.5/71

In: 550.519+/-0.080 χ^2/NDF : 26159384.4/57

Out: 549.284+/-0.078 χ^2/NDF : 26871605.1/61

All: 549.887+/-0.056 χ^2/NDF : 53031110.4/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 58.4/34

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 65.1/37

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

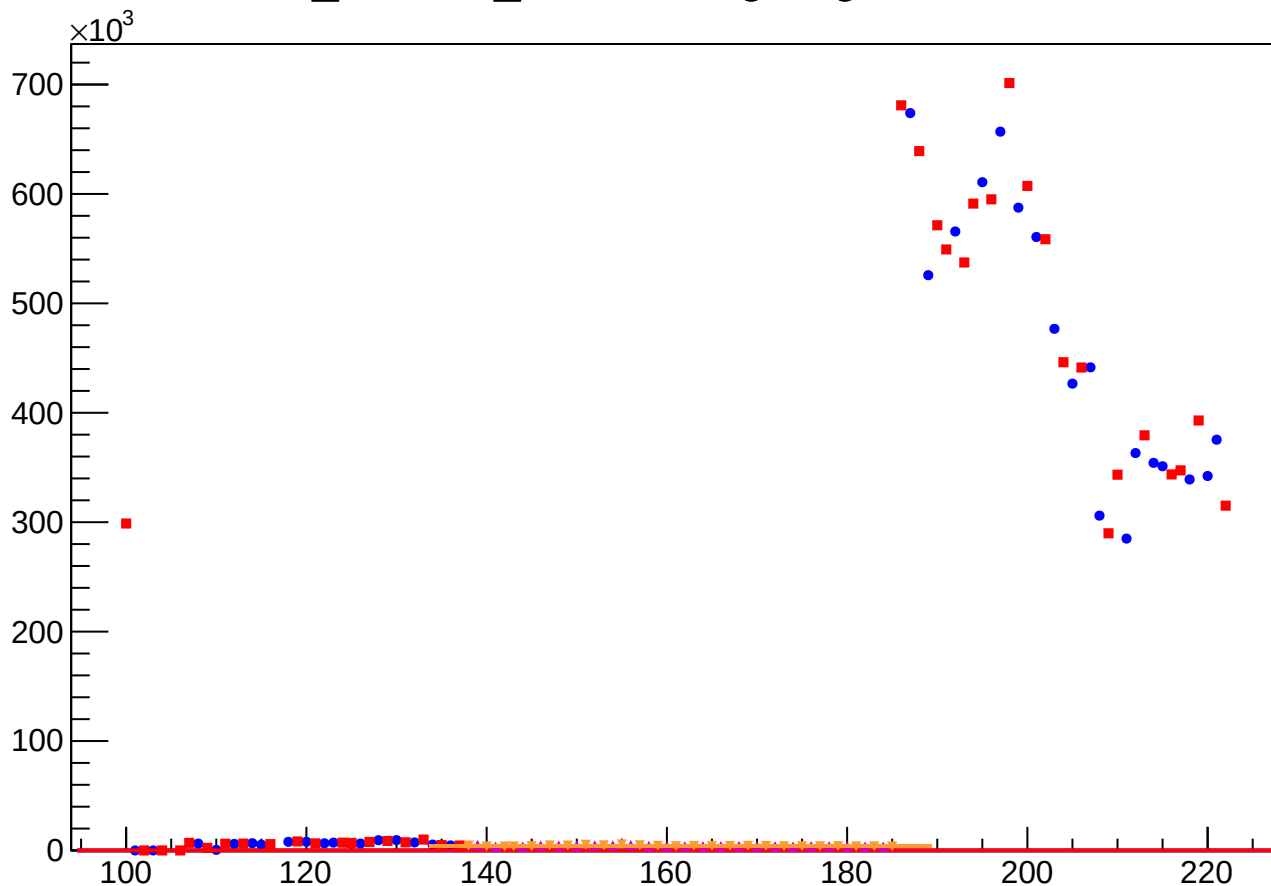
Right: 0.004 ± 0.014 χ^2/NDF : 126.3/72

In: -0.022 ± 0.021 χ^2/NDF : 87.6/57

Out: 0.025 ± 0.020 χ^2/NDF : 145.5/62

All: 0.003 ± 0.014 χ^2/NDF : 235.7/120

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.348 $\pm$ 0.015 χ^2 /NDF: 35766414.7/34

Left Out: 4074.257 $\pm$ 0.676 χ^2 /NDF: 416916.0/24

Right Out: 17.279 $\pm$ 0.014 χ^2 /NDF: 37151550.7/37

Left In: 4113.744 $\pm$ 0.700 χ^2 /NDF: 354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2 /NDF: 773528.6/47

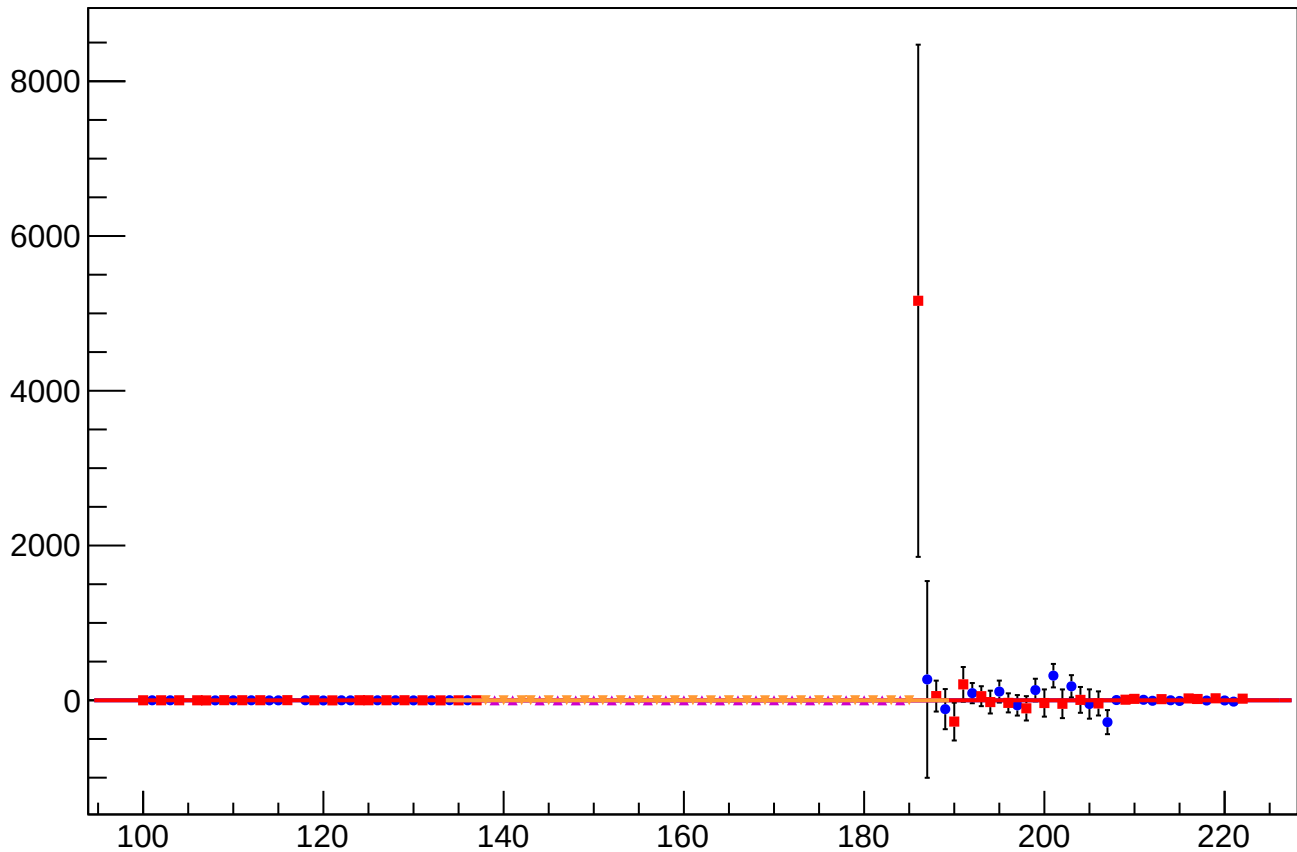
Right: 17.312 $\pm$ 0.010 χ^2 /NDF: 72917977.3/72

In: 19.154 $\pm$ 0.015 χ^2 /NDF: 70335445.9/57

Out: 19.016 $\pm$ 0.014 χ^2 /NDF: 73604341.4/62

All: 19.081 $\pm$ 0.010 χ^2 /NDF: 143939834.0/12

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 35.7/34

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 89.6/37

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

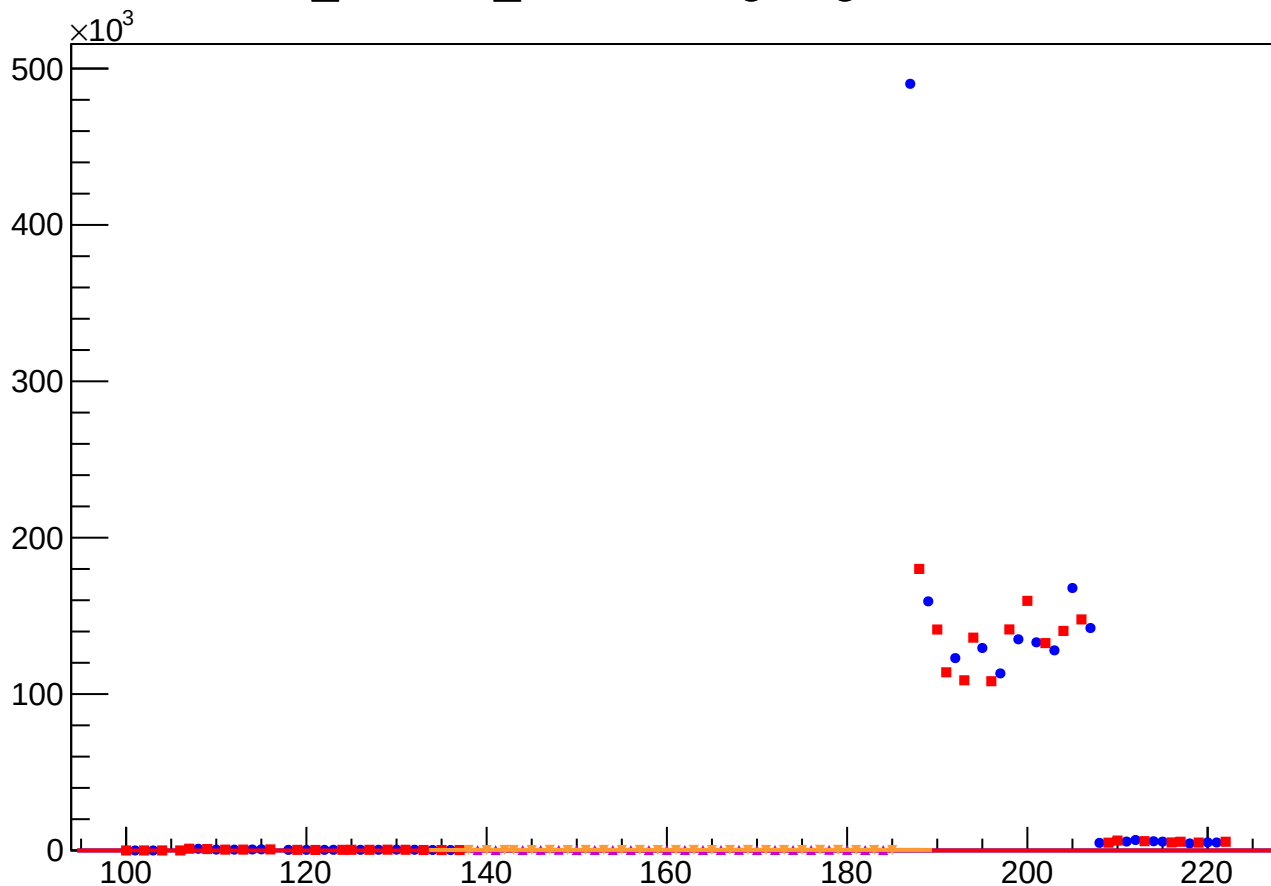
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 125.4/72

In: 0.000 $\pm$ 0.002 χ^2 /NDF:71.4/57

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:110.3/62

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 181.8/120

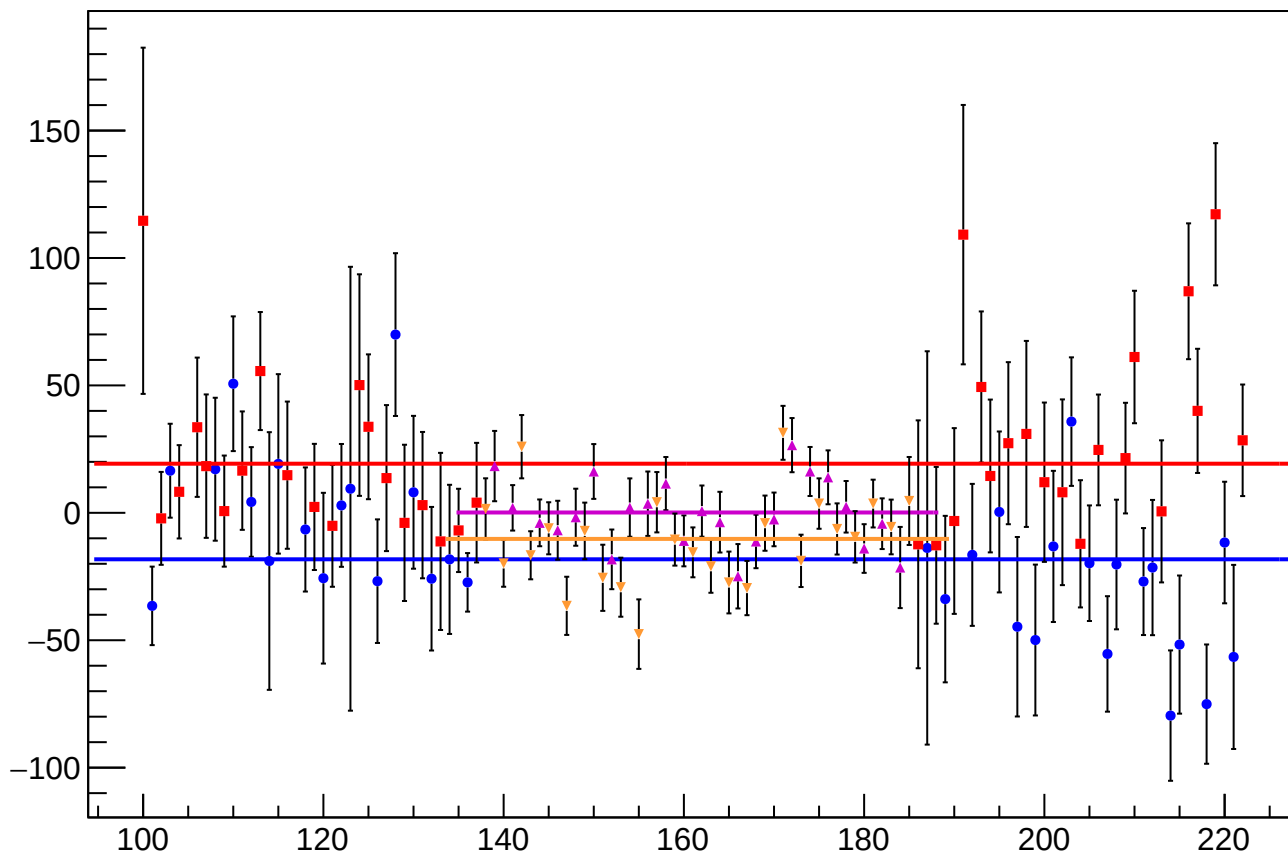
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.703+/-0.001 χ^2/NDF : 35964935.8/34
 Left Out: 325.469+/-0.054 χ^2/NDF : 350046.8/24
 Right Out: 1.732+/-0.001 χ^2/NDF : 36080420.0/36
 Left In: 325.201+/-0.055 χ^2/NDF : 428069.7/22

Left: 325.339+/-0.039 χ^2/NDF : 778128.6/47
 Right: 1.718+/-0.001 χ^2/NDF : 72045572.9/71
 In: 1.918+/-0.001 χ^2/NDF : 70367468.4/57
 Out: 1.941+/-0.001 χ^2/NDF : 72387431.7/61
 All: 1.930+/-0.001 χ^2/NDF : 142755030.4/119

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -18.239 $\pm$ 4.231 χ^2/NDF : 50.1/34

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 19.275 $\pm$ 4.291 χ^2/NDF : 44.9/37

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

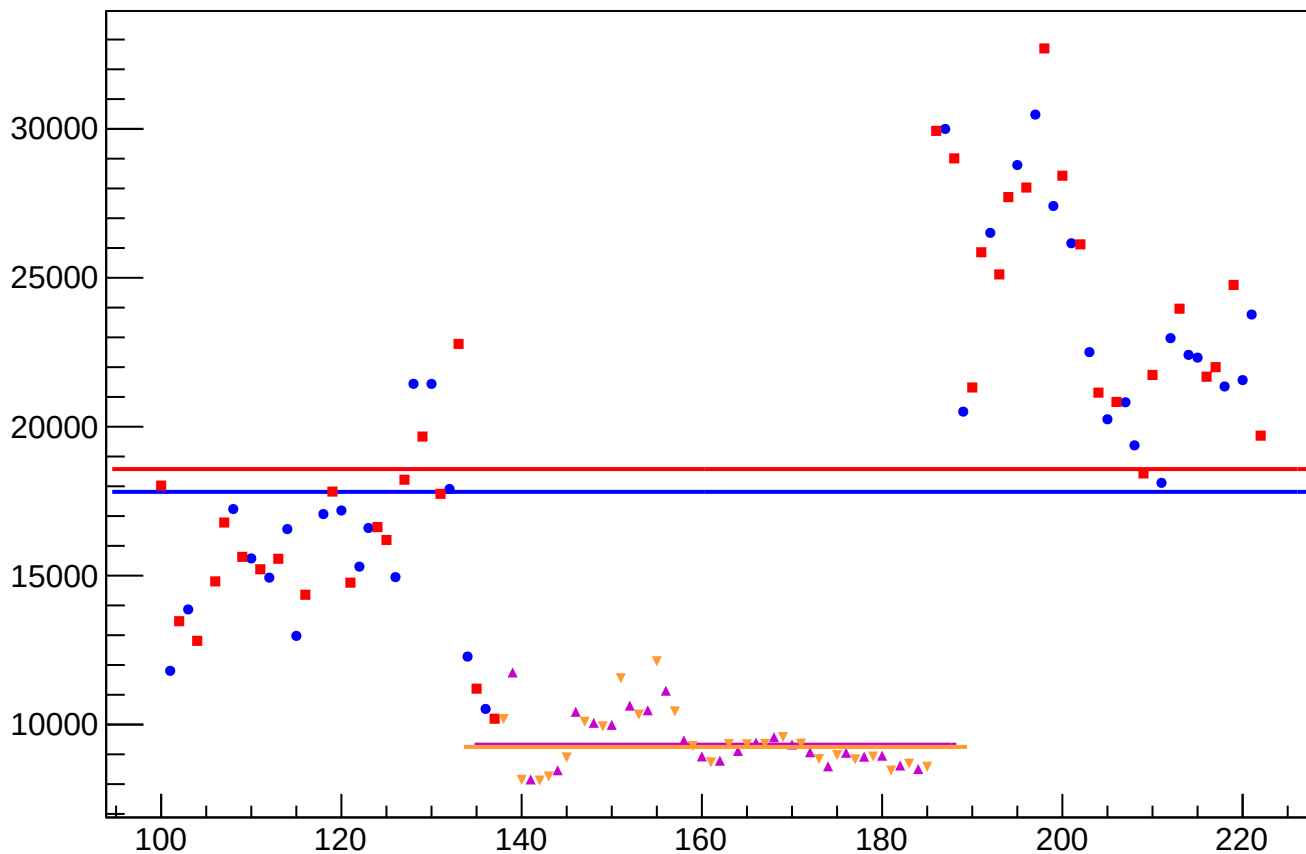
Right: 0.254 $\pm$ 3.012 χ^2/NDF : 133.8/72

In: -3.898 $\pm$ 1.981 χ^2/NDF : 94.6/57

Out: -4.239 $\pm$ 1.934 χ^2/NDF : 140.6/62

All: -4.073 $\pm$ 1.384 χ^2/NDF : 235.3/120

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17812.500 $\pm$ 2.992 χ^2 /NDF: 3078130.6/34

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 18577.458 $\pm$ 3.034 χ^2 /NDF: 3074979.5/37

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

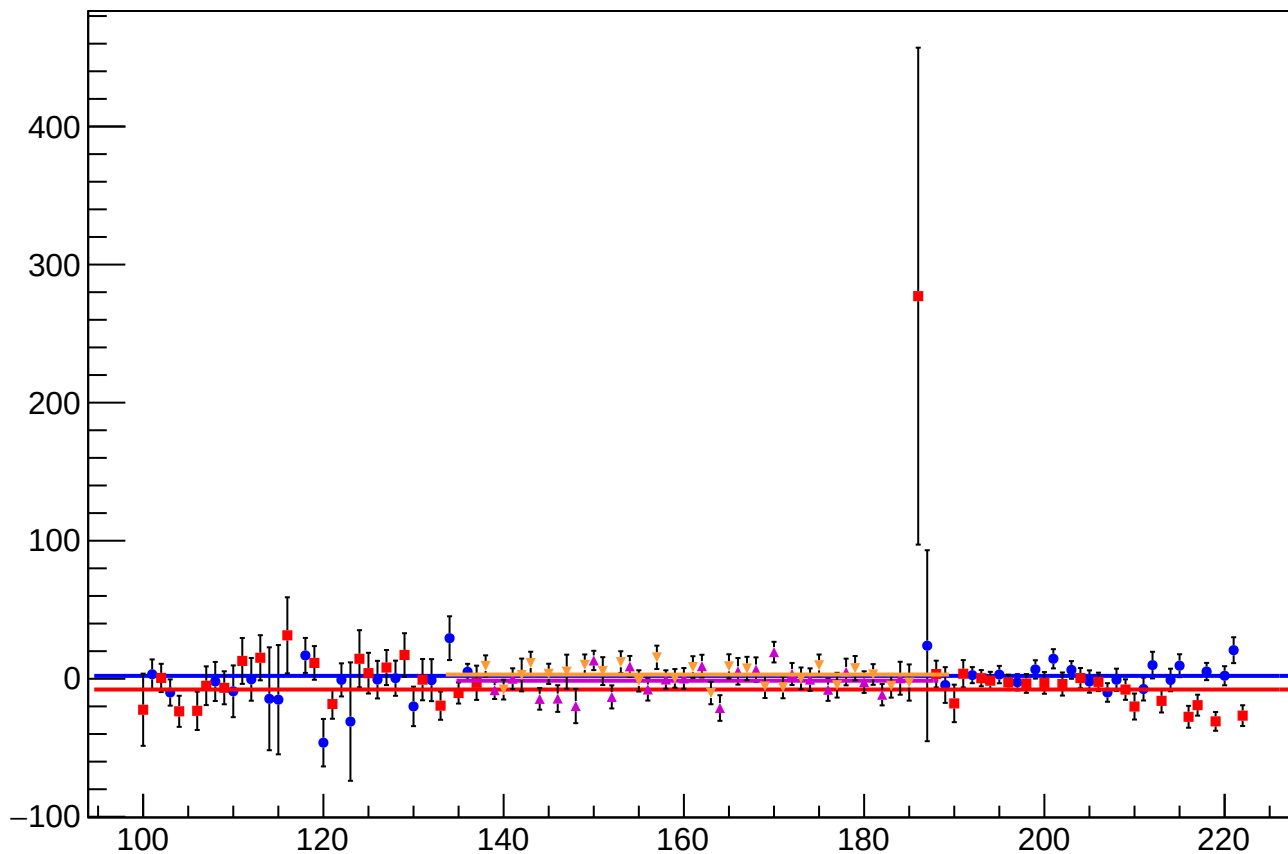
Right: 18189.603 $\pm$ 2.130 χ^2 /NDF: 6185344.2/72

In: 11186.348 $\pm$ 1.401 χ^2 /NDF:9643312.8/57

Out: 11144.755 $\pm$ 1.368 χ^2 /NDF:10939646.4/62

All: 11165.051 $\pm$ 0.979 χ^2 /NDF: 20583410.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.105 ± 1.528 $\chi^2/\text{NDF}: 34.0/34$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -7.769 ± 1.514 $\chi^2/\text{NDF}: 62.4/37$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

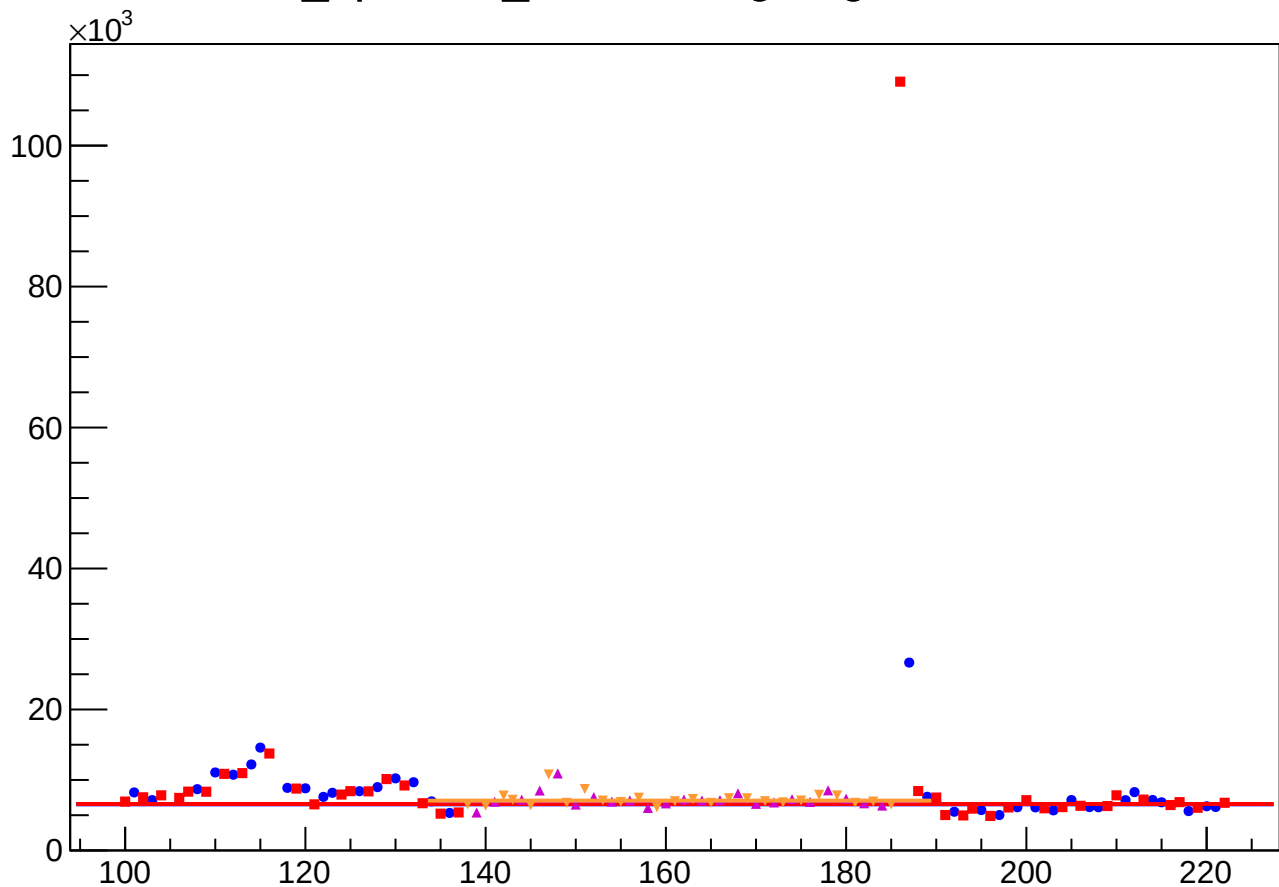
Right: -2.880 ± 1.076 $\chi^2/\text{NDF}: 117.4/72$

In: 0.534 ± 1.135 $\chi^2/\text{NDF}: 71.7/57$

Out: -2.848 ± 1.118 $\chi^2/\text{NDF}: 103.9/62$

All: -1.182 ± 0.796 $\chi^2/\text{NDF}: 180.1/120$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6544.460 ± 1.081 $\chi^2/\text{NDF}: 1667583.7/34$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6589.683 ± 1.070 $\chi^2/\text{NDF}: 2167281.3/37$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

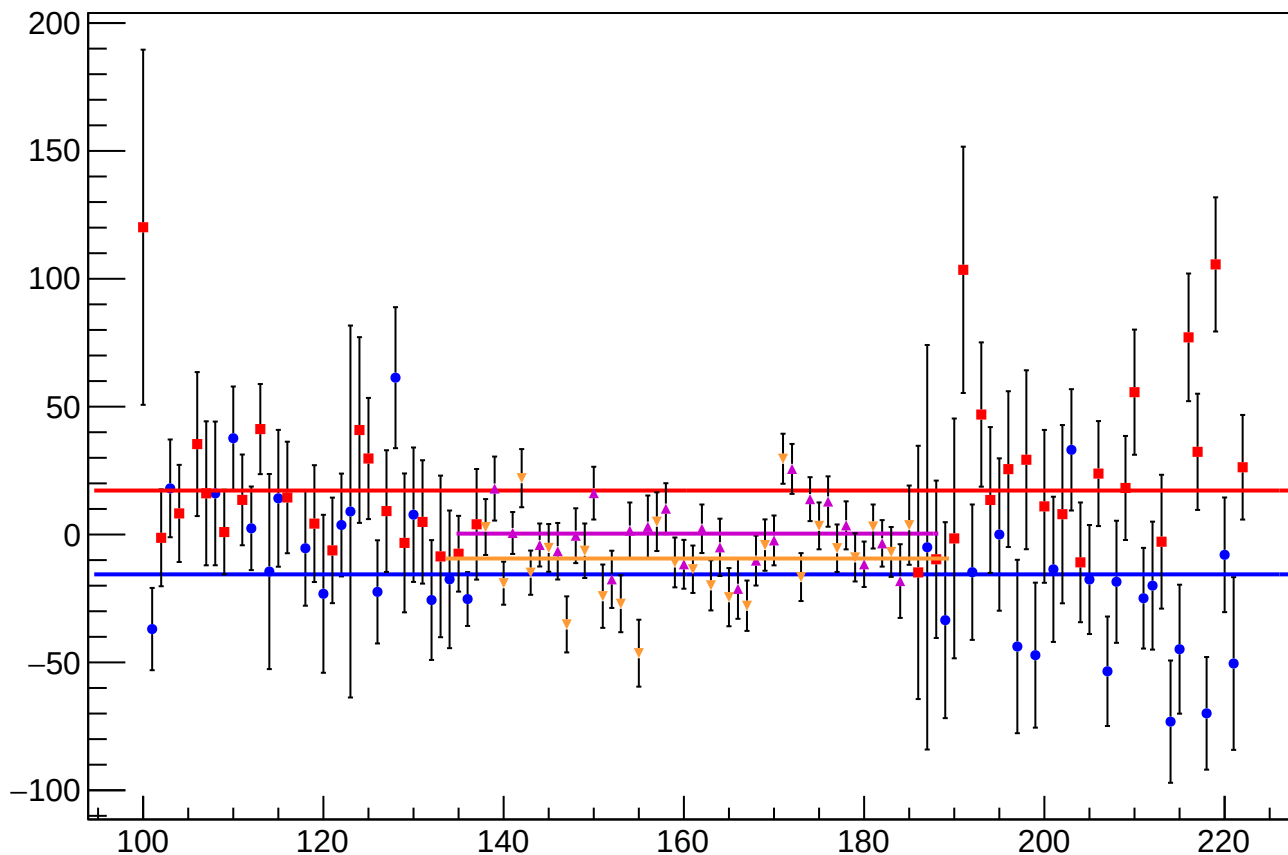
Right: 6567.291 ± 0.761 $\chi^2/\text{NDF}: 3835748.9/72$

In: 6749.238 ± 0.802 $\chi^2/\text{NDF}: 2297566.2/57$

Out: 6806.472 ± 0.791 $\chi^2/\text{NDF}: 2645020.1/62$

All: 6778.272 ± 0.563 $\chi^2/\text{NDF}: 4945168.1/12$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.574 $\pm$ 3.881 χ^2/NDF : 51.0/34

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 17.205 $\pm$ 3.904 χ^2/NDF : 42.1/37

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

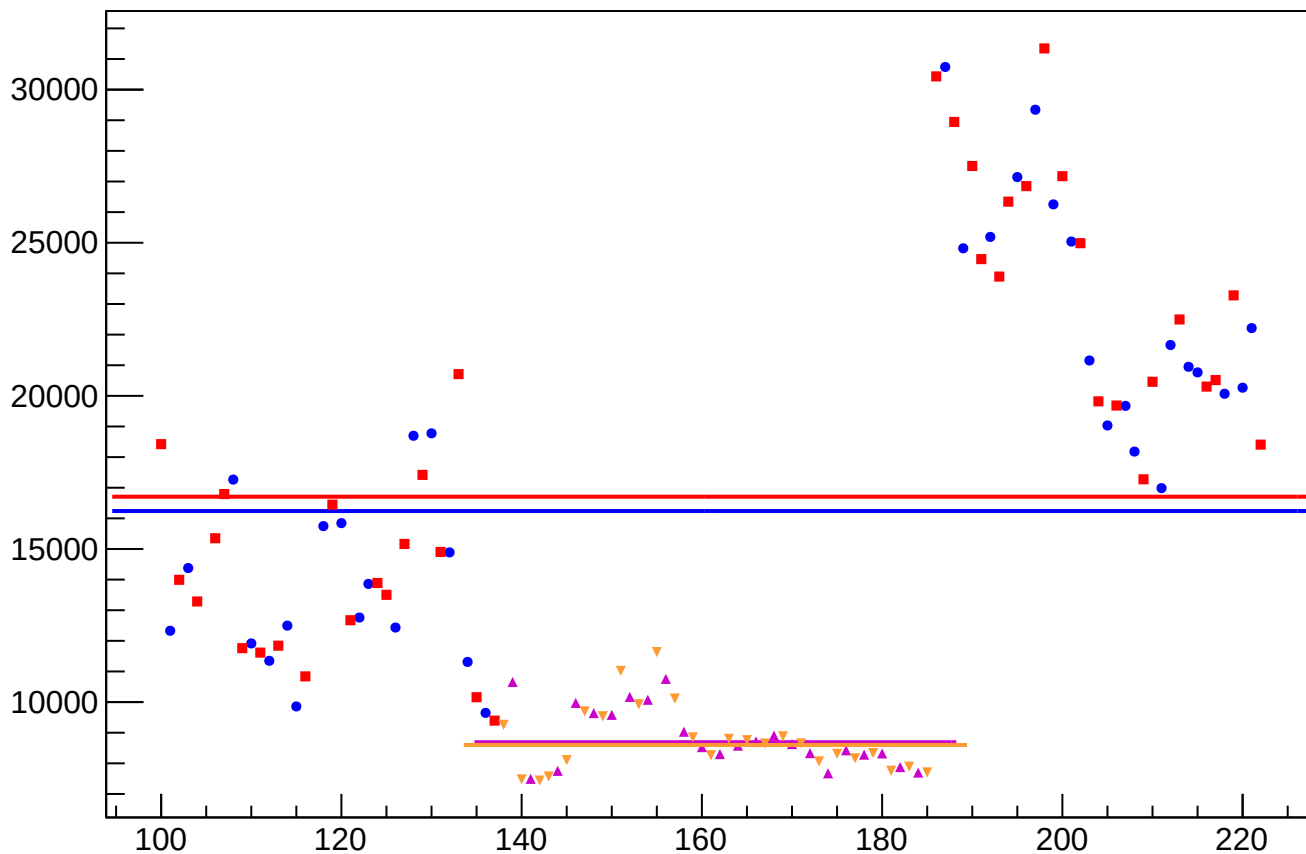
Right: 0.718 $\pm$ 2.753 χ^2/NDF : 128.6/72

In: -3.233 $\pm$ 1.842 χ^2/NDF : 93.7/57

Out: -3.773 $\pm$ 1.793 χ^2/NDF : 137.1/62

All: -3.510 $\pm$ 1.285 χ^2/NDF : 230.9/120

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16238.713 $\pm$ 2.744 χ^2 /NDF: 3586546.2/34

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF: 438229.4/24

Right Out: 16707.268 $\pm$ 2.761 χ^2 /NDF: 3928000.8/37

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

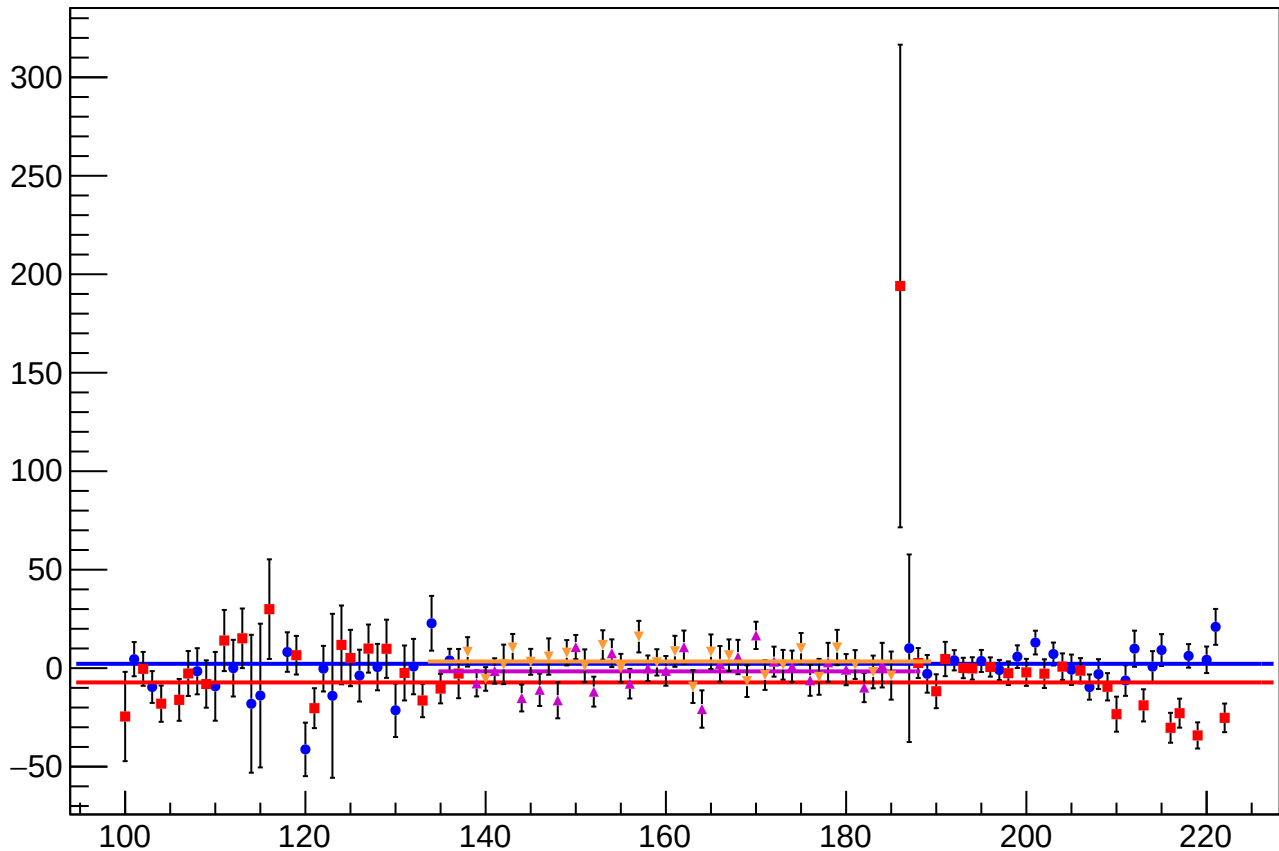
Right: 16471.597 $\pm$ 1.946 χ^2 /NDF: 7529034.4/72

In: 10389.812 $\pm$ 1.302 χ^2 /NDF: 9819084.9/57

Out: 10309.201 $\pm$ 1.268 χ^2 /NDF: 11171126.9/62

All: 10348.417 $\pm$ 0.908 χ^2 /NDF: 20992179.4

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.216 $\pm$ 1.395 χ^2/NDF : 36.3/34

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -7.238 $\pm$ 1.364 χ^2/NDF : 78.0/37

Left In: -1.627 $\pm$ 1.599 χ^2/NDF : 33.5/22

Left: 0.967 $\pm$ 1.113 χ^2/NDF : 55.4/47

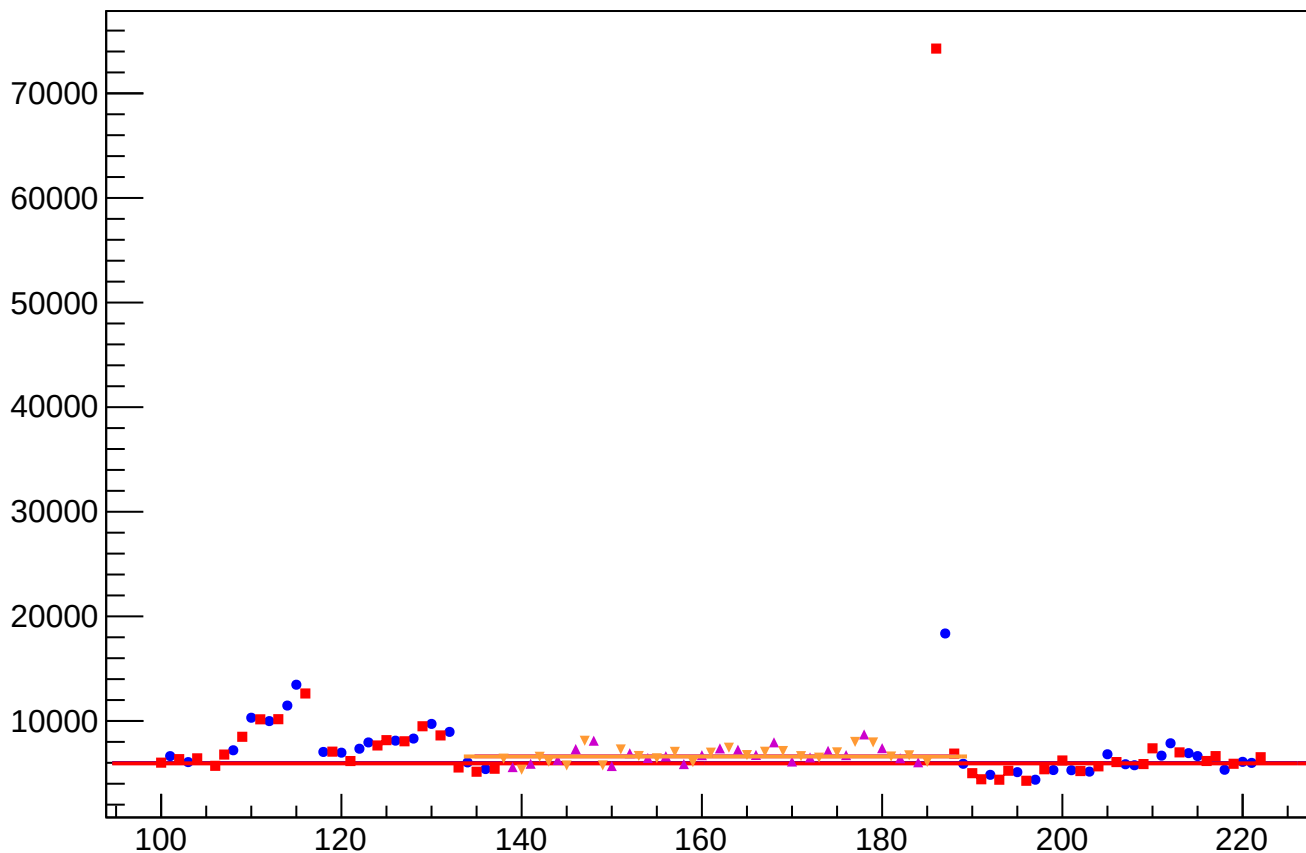
Right: -2.617 $\pm$ 0.975 χ^2/NDF : 137.8/72

In: 0.555 $\pm$ 1.051 χ^2/NDF : 73.1/57

Out: -2.593 $\pm$ 1.024 χ^2/NDF : 121.5/62

All: -1.060 $\pm$ 0.734 χ^2/NDF : 199.1/120

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5978.558 $\pm$ 0.986 χ^2 /NDF: 1663998.2/34

Left Out: 6607.100 $\pm$ 1.096 χ^2 /NDF: 398416.1/24

Right Out: 5947.956 $\pm$ 0.965 χ^2 /NDF: 2267978.9/37

Left In: 6628.653 $\pm$ 1.131 χ^2 /NDF: 430282.2/22

Left: 6617.543 $\pm$ 0.787 χ^2 /NDF: 828885.6/47

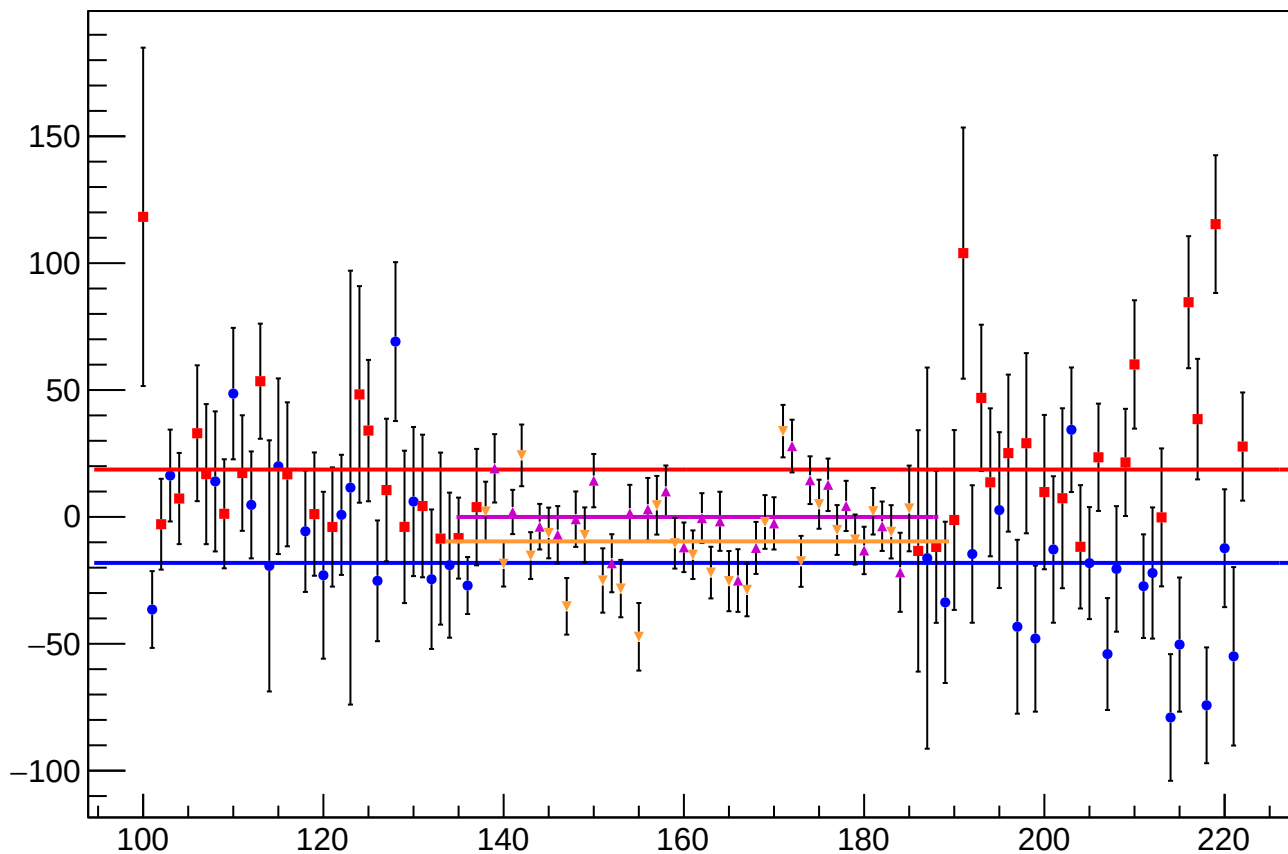
Right: 5962.914 $\pm$ 0.690 χ^2 /NDF: 3932469.1/72

In: 6259.506 $\pm$ 0.743 χ^2 /NDF: 2281974.7/57

Out: 6235.566 $\pm$ 0.724 χ^2 /NDF: 2870145.0/62

All: 6247.224 $\pm$ 0.519 χ^2 /NDF: 5152651.9/12

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -18.123 ± 4.134 $\chi^2/\text{NDF}: 50.2/34$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 18.667 ± 4.194 $\chi^2/\text{NDF}: 45.3/37$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

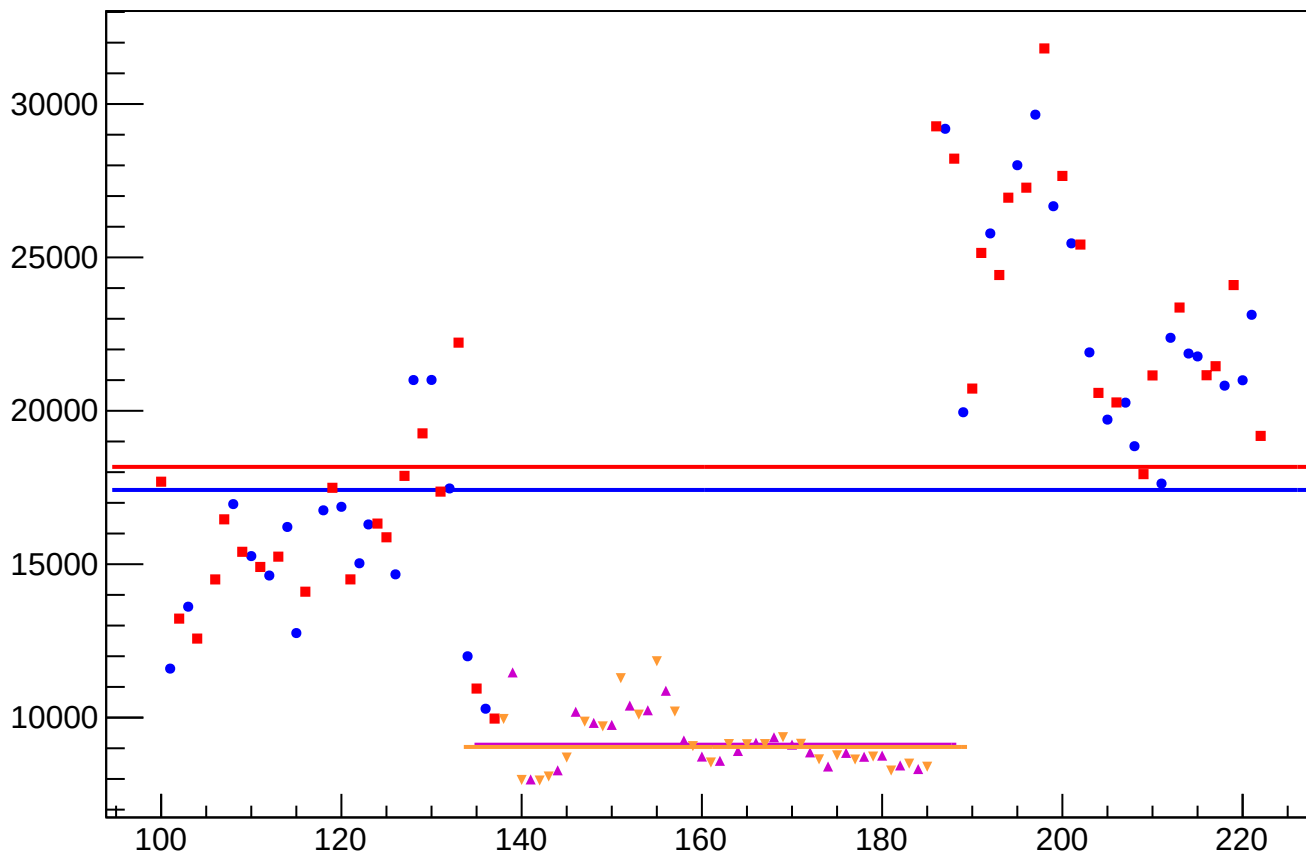
Right: 0.010 ± 2.944 $\chi^2/\text{NDF}: 134.6/72$

In: -3.992 ± 1.937 $\chi^2/\text{NDF}: 95.8/57$

Out: -3.893 ± 1.891 $\chi^2/\text{NDF}: 141.5/62$

All: -3.941 ± 1.353 $\chi^2/\text{NDF}: 237.3/120$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17420.206 $\pm$ 2.923 χ^2 /NDF: 3026254.9/34

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 18172.193 $\pm$ 2.965 χ^2 /NDF: 3017277.3/37

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

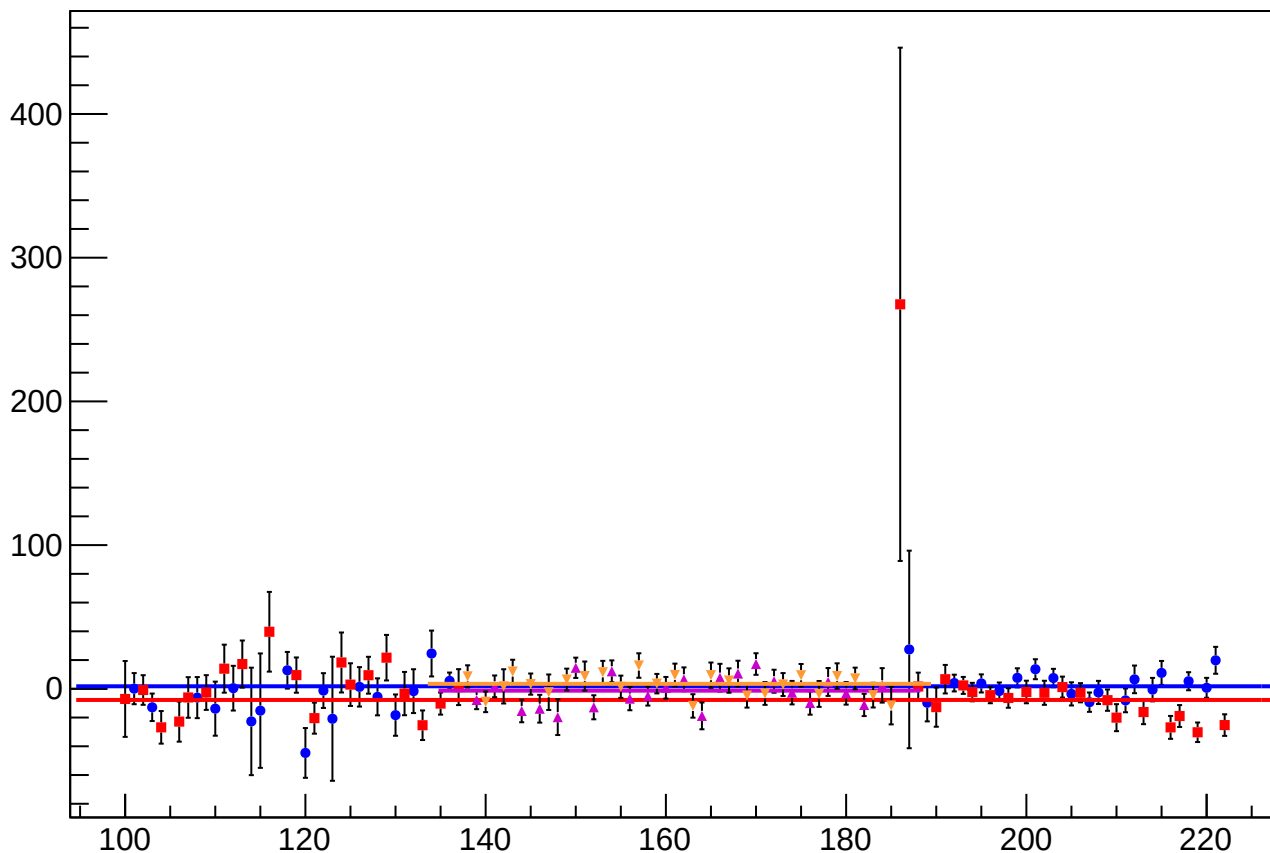
Right: 17790.849 $\pm$ 2.082 χ^2 /NDF: 6076143.4/72

In: 10938.797 $\pm$ 1.369 χ^2 /NDF:9600647.2/57

Out: 10899.056 $\pm$ 1.337 χ^2 /NDF:10895887.0/62

All: 10918.450 $\pm$ 0.957 χ^2 /NDF: 20496965.4

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.753 ± 1.533 $\chi^2/\text{NDF}: 33.5/34$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -7.757 ± 1.519 $\chi^2/\text{NDF}: 65.4/37$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

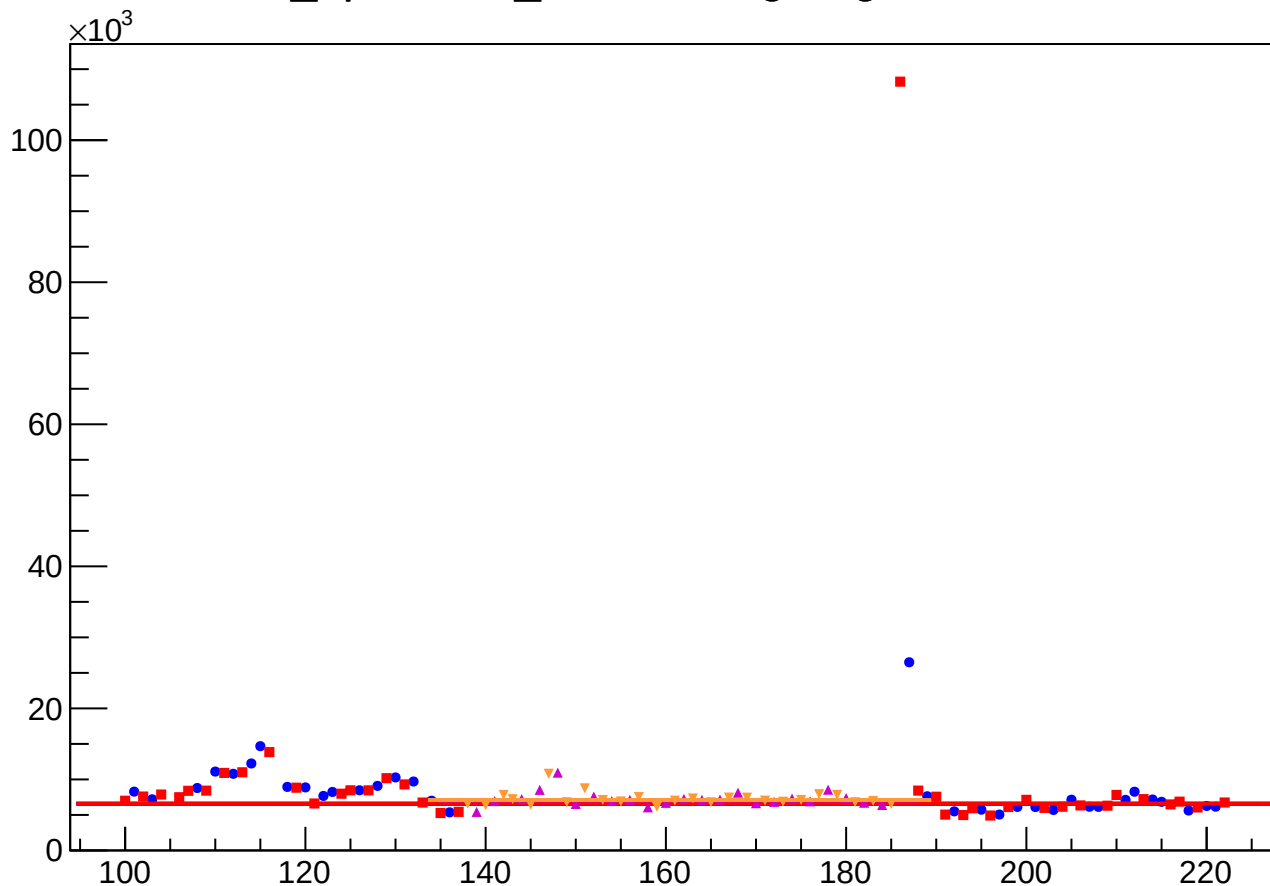
Right: -3.047 ± 1.079 $\chi^2/\text{NDF}: 118.3/72$

In: 0.389 ± 1.139 $\chi^2/\text{NDF}: 71.8/57$

Out: -2.677 ± 1.122 $\chi^2/\text{NDF}: 109.0/62$

All: -1.166 ± 0.799 $\chi^2/\text{NDF}: 184.4/120$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6563.908 $\pm$ 1.084 χ^2/NDF : 1672608.9/34

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6611.438 $\pm$ 1.074 χ^2/NDF : 2171445.2/37

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

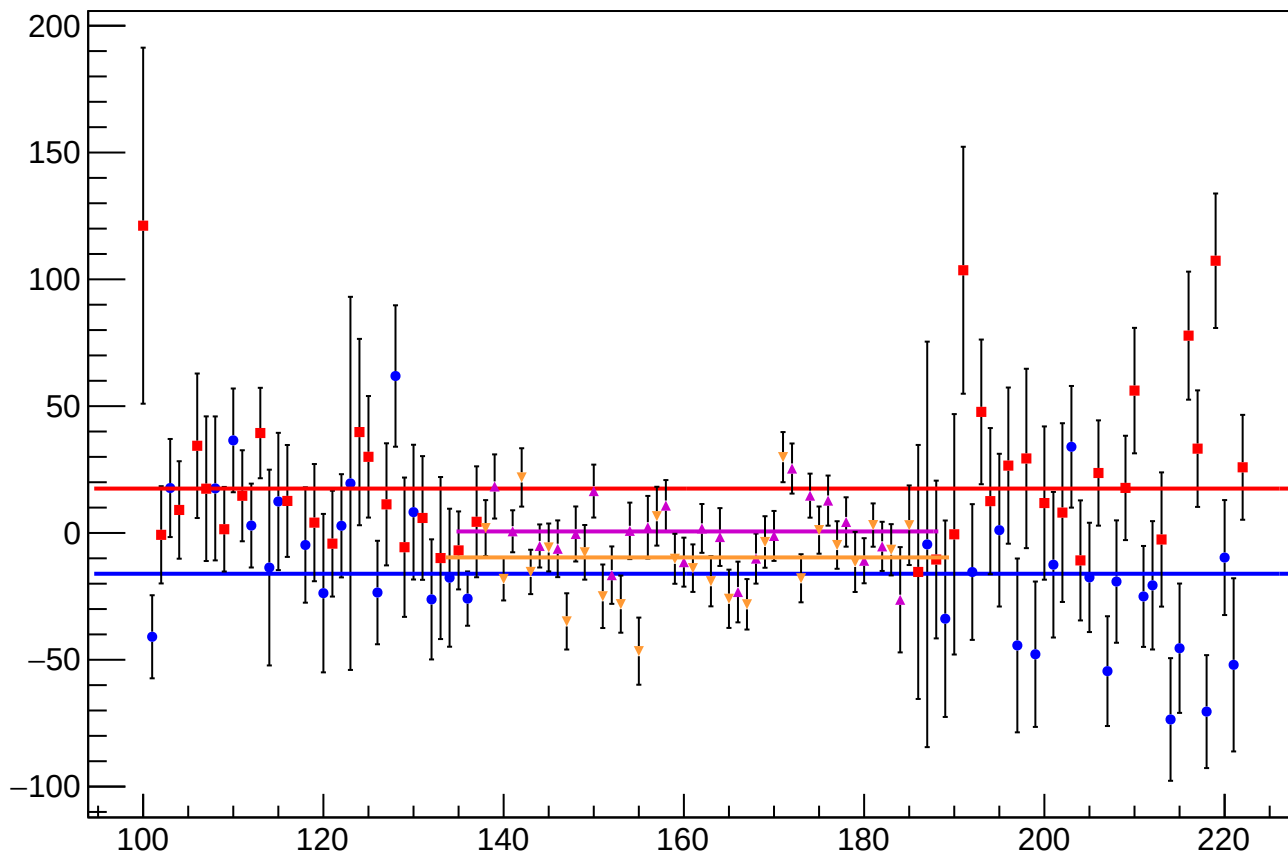
Right: 6587.897 $\pm$ 0.763 χ^2/NDF : 3845024.7/72

In: 6774.463 $\pm$ 0.805 χ^2/NDF : 2297839.9/57

Out: 6832.549 $\pm$ 0.794 χ^2/NDF : 2647448.3/62

All: 6803.926 $\pm$ 0.565 χ^2/NDF : 4947928.1/12

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -16.082 $\pm$ 3.930 χ^2/NDF : 51.4/34

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 17.502 $\pm$ 3.955 χ^2/NDF : 41.1/37

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

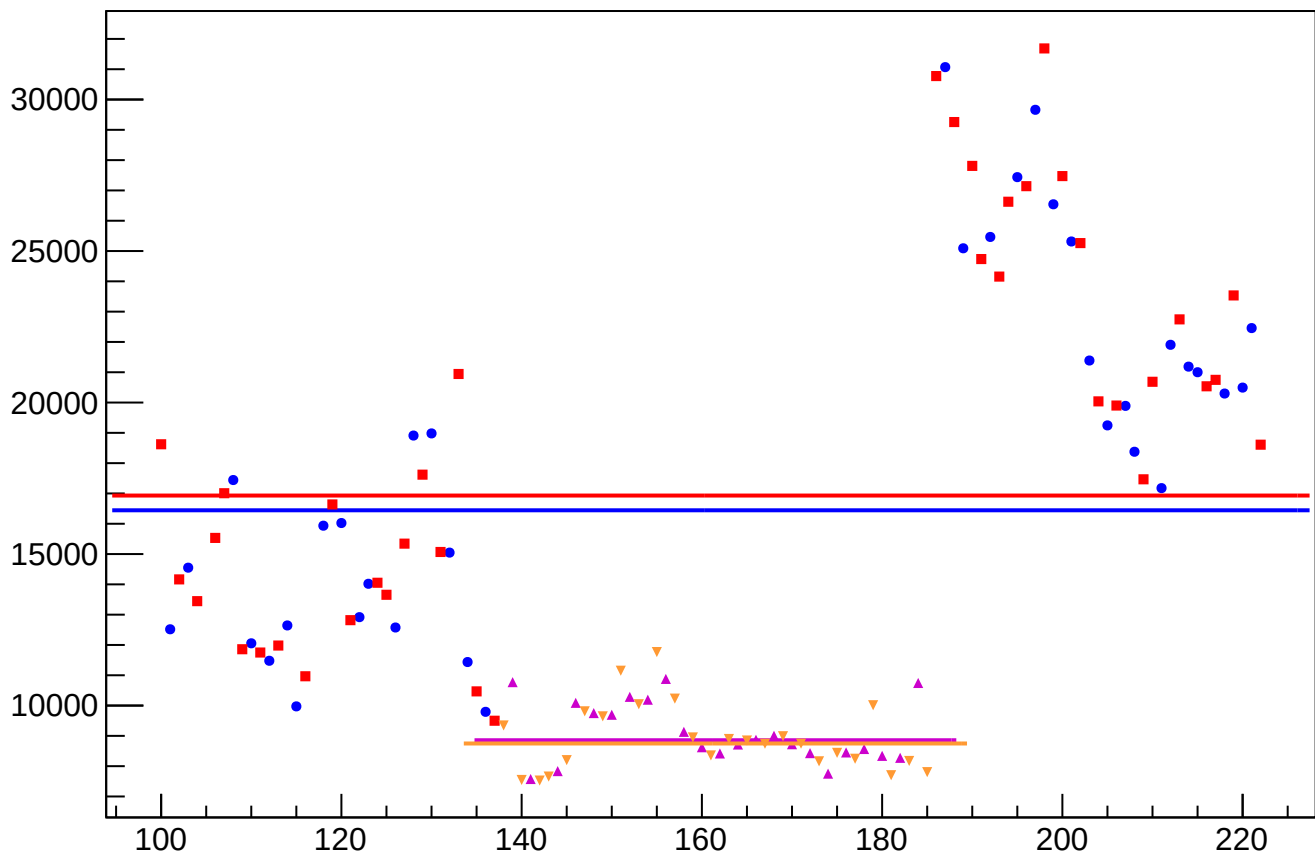
Right: 0.602 $\pm$ 2.788 χ^2/NDF : 128.8/72

In: -3.203 $\pm$ 1.876 χ^2/NDF : 94.9/57

Out: -3.860 $\pm$ 1.825 χ^2/NDF : 135.8/62

All: -3.541 $\pm$ 1.308 χ^2/NDF : 230.9/120

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16444.347 $\pm$ 2.779 χ^2 /NDF: 3560668.5/34

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 16930.931 $\pm$ 2.797 χ^2 /NDF: 3885291.4/37

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF:367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

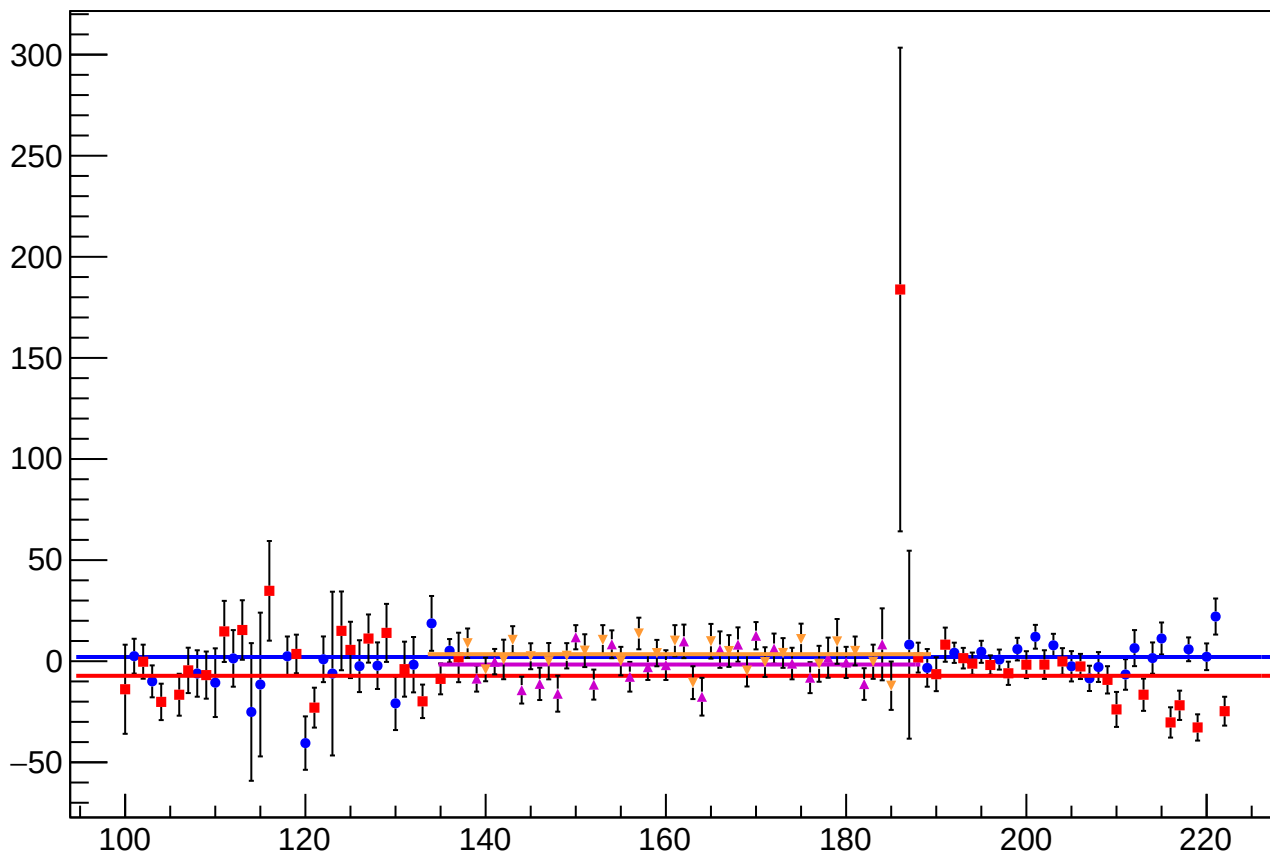
Right: 16686.072 $\pm$ 1.971 χ^2 /NDF: 7461193.3/72

In: 10585.152 $\pm$ 1.327 χ^2 /NDF:9686956.7/57

Out: 10490.871 $\pm$ 1.291 χ^2 /NDF:11086231.2/62

All: 10536.715 $\pm$ 0.925 χ^2 /NDF: 20775783.1

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.082 $\pm$ 1.362 χ^2/NDF : 37.0/34

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF : 15.8/24

Right Out: -7.218 $\pm$ 1.331 χ^2/NDF : 80.6/37

Left In: -1.638 $\pm$ 1.578 χ^2/NDF : 33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

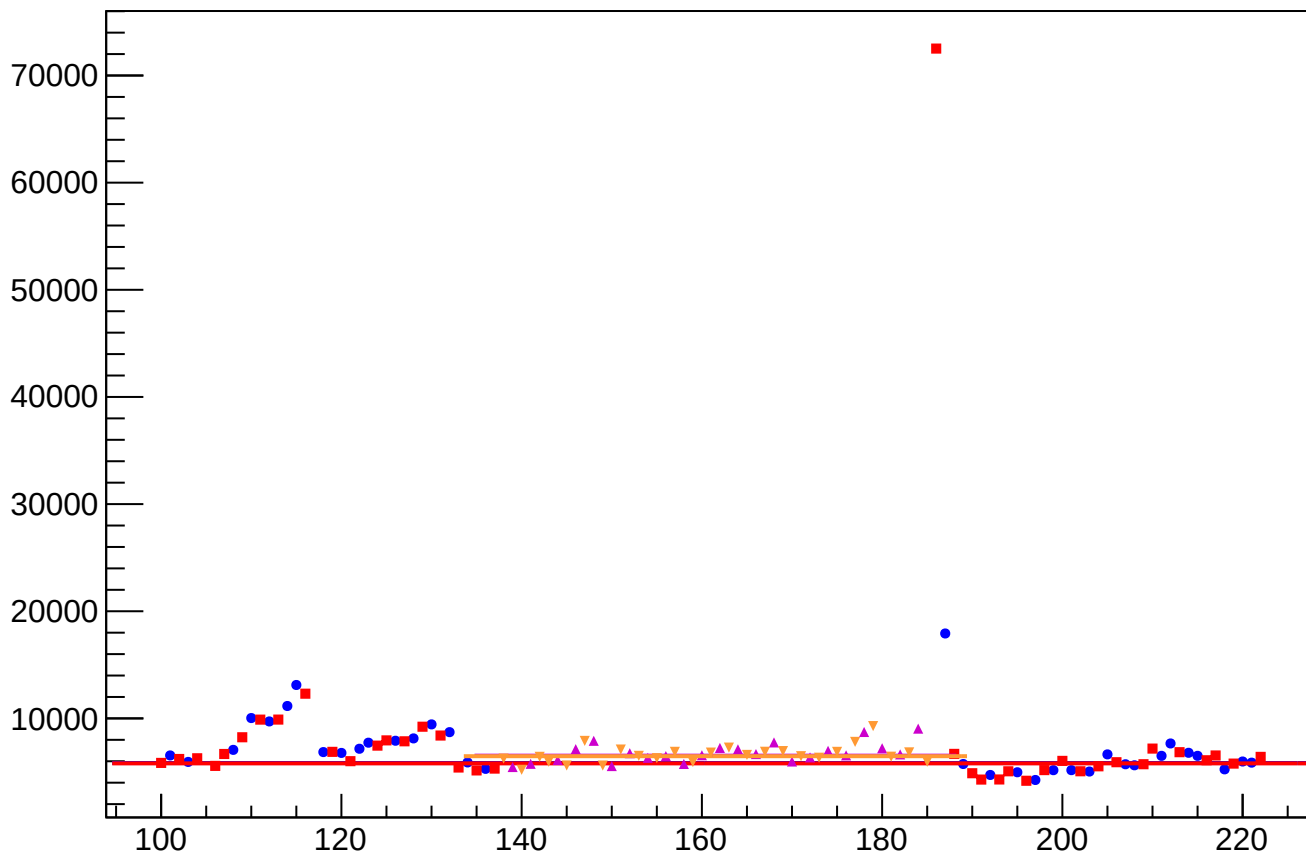
Right: -2.674 $\pm$ 0.952 χ^2/NDF : 141.5/72

In: 0.493 $\pm$ 1.031 χ^2/NDF : 73.9/57

Out: -2.592 $\pm$ 1.003 χ^2/NDF : 124.3/62

All: -1.092 $\pm$ 0.719 χ^2/NDF : 202.8/120

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5835.124+/-0.963 χ^2/NDF : 1669942.9/34

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5803.013+/-0.941 χ^2/NDF : 2265766.3/37

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

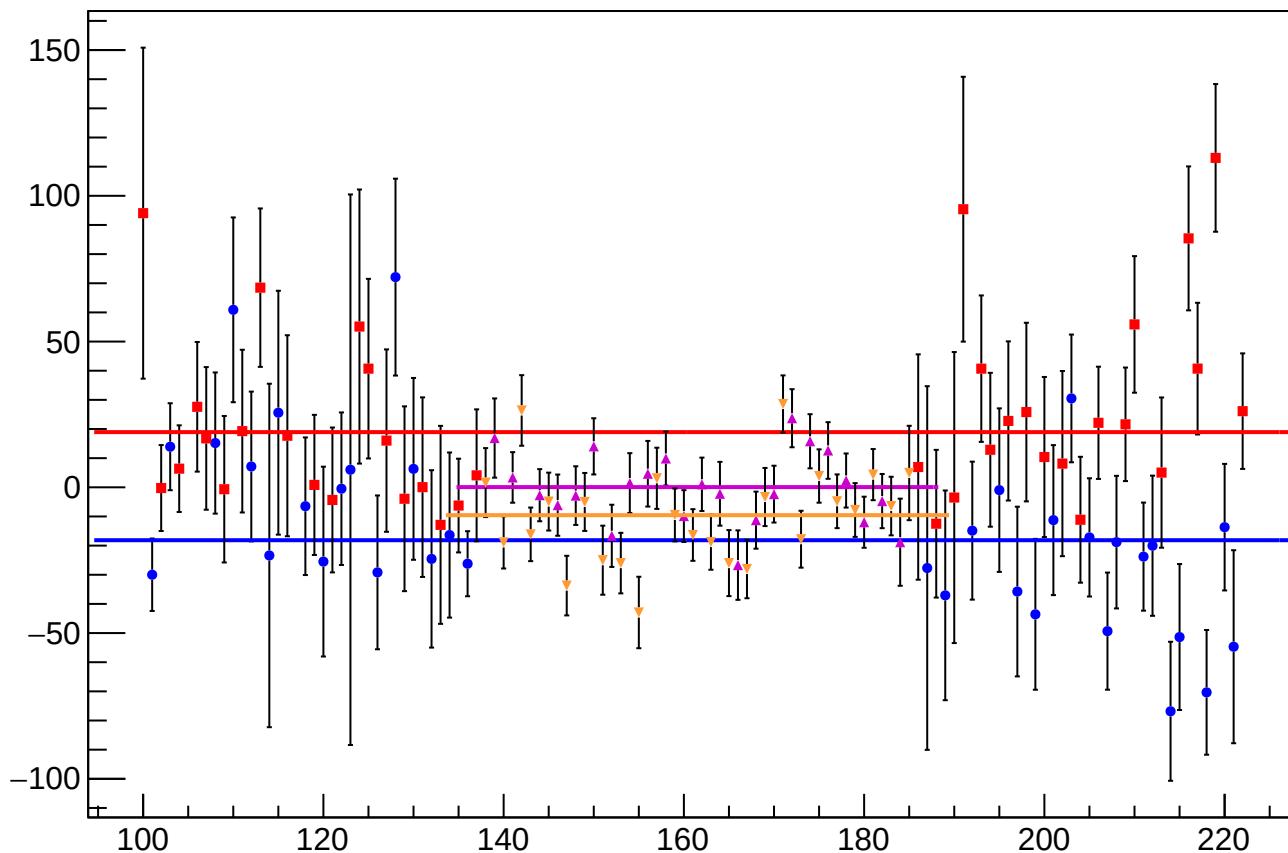
Right: 5818.702+/-0.673 χ^2/NDF : 3936277.7/72

In: 6128.401+/-0.729 χ^2/NDF : 2367133.9/57

Out: 6092.497+/-0.709 χ^2/NDF : 2974563.5/62

All: 6109.949+/-0.508 χ^2/NDF : 5342943.8/12

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -18.150 $\pm$ 3.939 χ^2/NDF : 49.6/34

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 18.935 $\pm$ 4.010 χ^2/NDF : 48.1/37

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

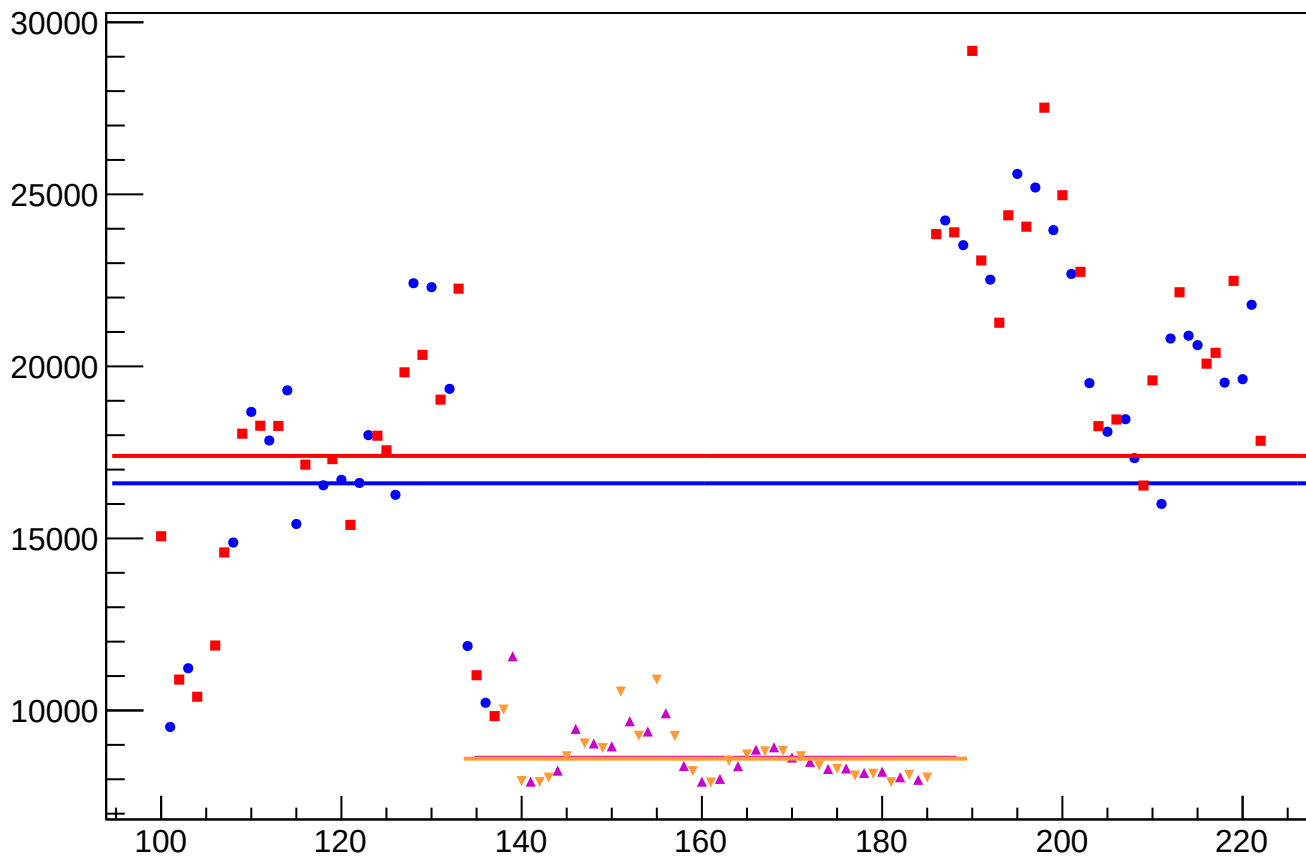
Right: 0.058 $\pm$ 2.810 χ^2/NDF : 141.2/72

In: -3.880 $\pm$ 1.834 χ^2/NDF : 96.2/57

Out: -3.827 $\pm$ 1.798 χ^2/NDF : 147.9/62

All: -3.853 $\pm$ 1.284 χ^2/NDF : 244.1/120

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16601.277 $\pm$ 2.785 χ^2 /NDF: 3044340.9/34

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 17398.120 $\pm$ 2.836 χ^2 /NDF: 2920291.1/37

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

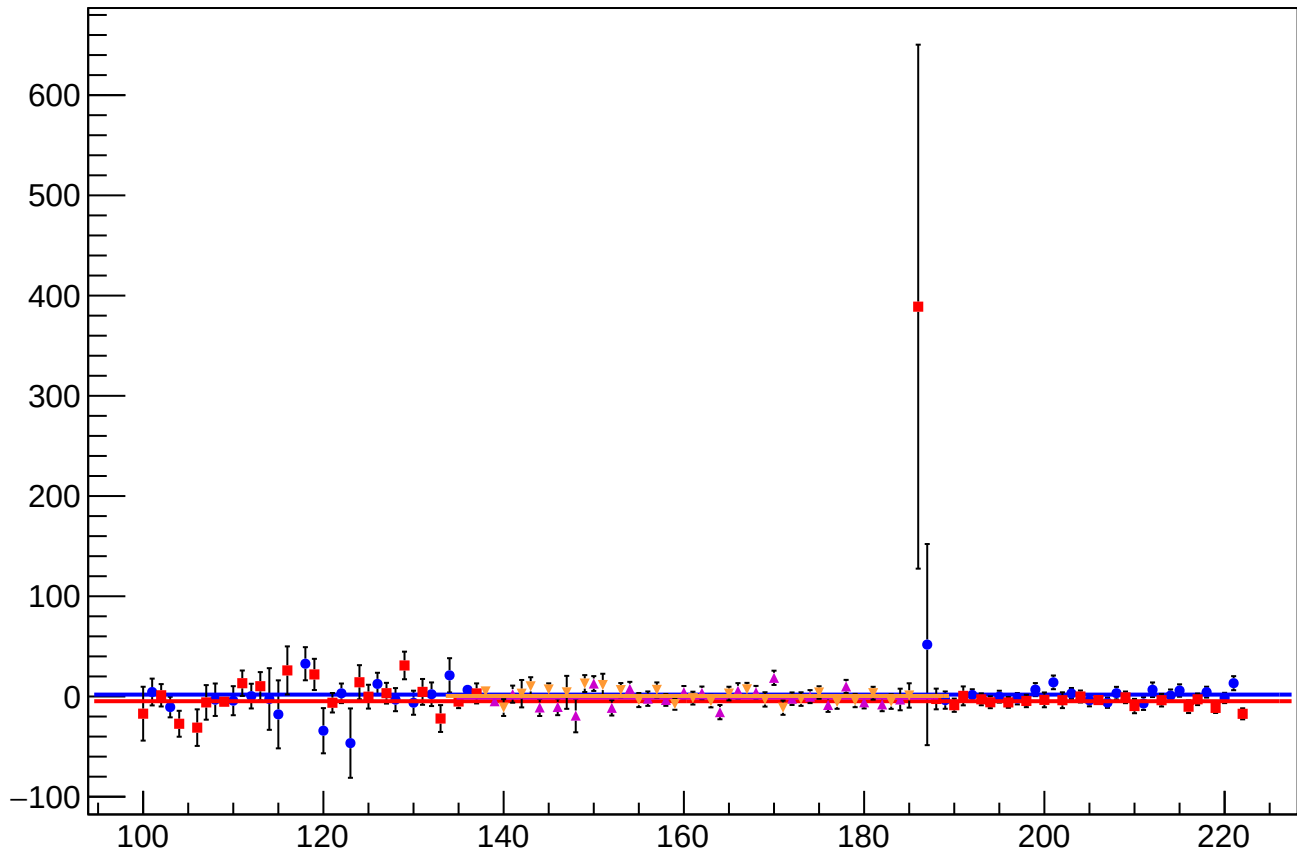
Right: 16992.508 $\pm$ 1.987 χ^2 /NDF: 6004824.9/72

In: 10355.106 $\pm$ 1.297 χ^2 /NDF:9704763.8/57

Out: 10368.065 $\pm$ 1.272 χ^2 /NDF:10861825.9/62

All: 10361.714 $\pm$ 0.908 χ^2 /NDF: 20566640.6

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.887 ± 1.302 $\chi^2/\text{NDF}: 28.6/34$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -4.707 ± 1.258 $\chi^2/\text{NDF}: 37.5/37$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

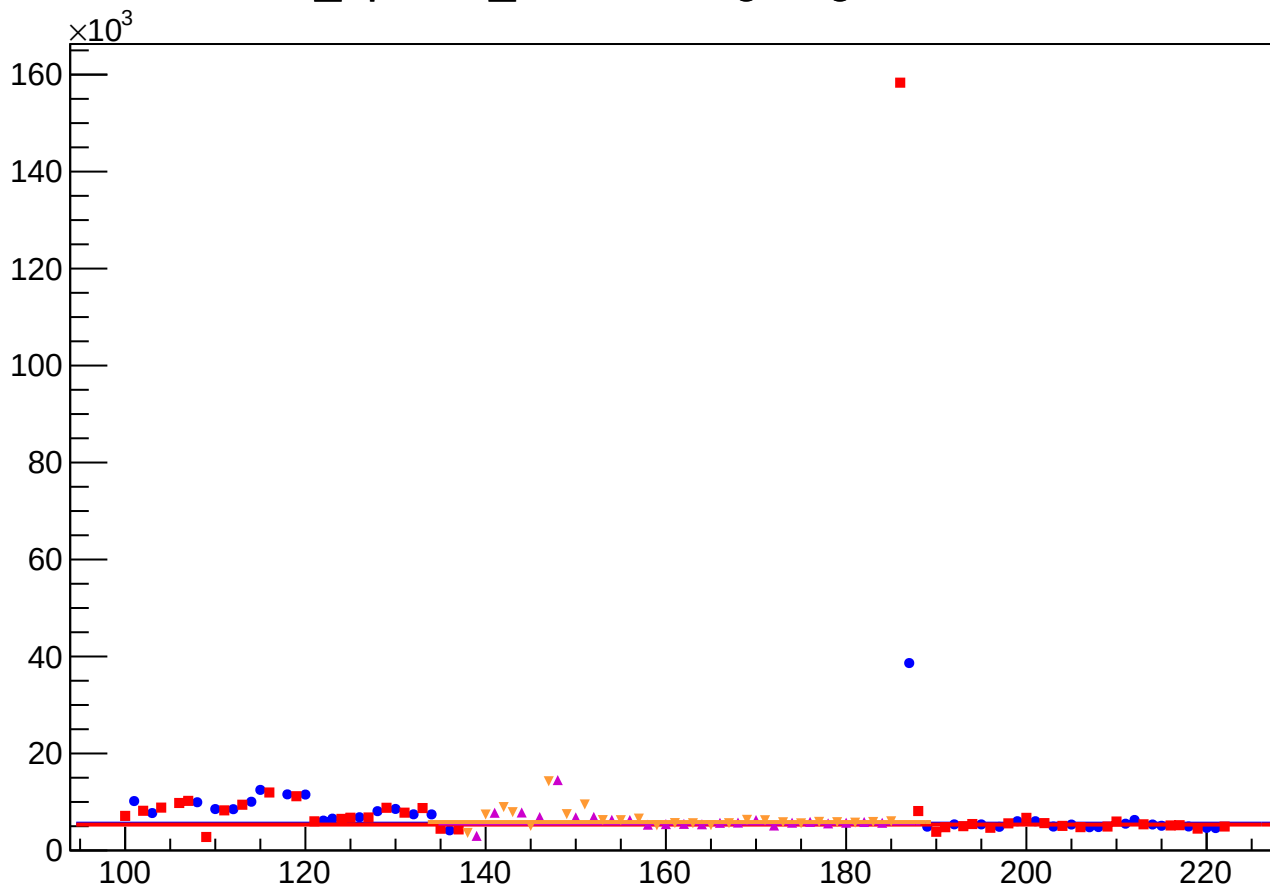
Right: -1.523 ± 0.905 $\chi^2/\text{NDF}: 79.3/72$

In: 0.521 ± 0.952 $\chi^2/\text{NDF}: 63.5/57$

Out: -2.401 ± 0.941 $\chi^2/\text{NDF}: 64.6/62$

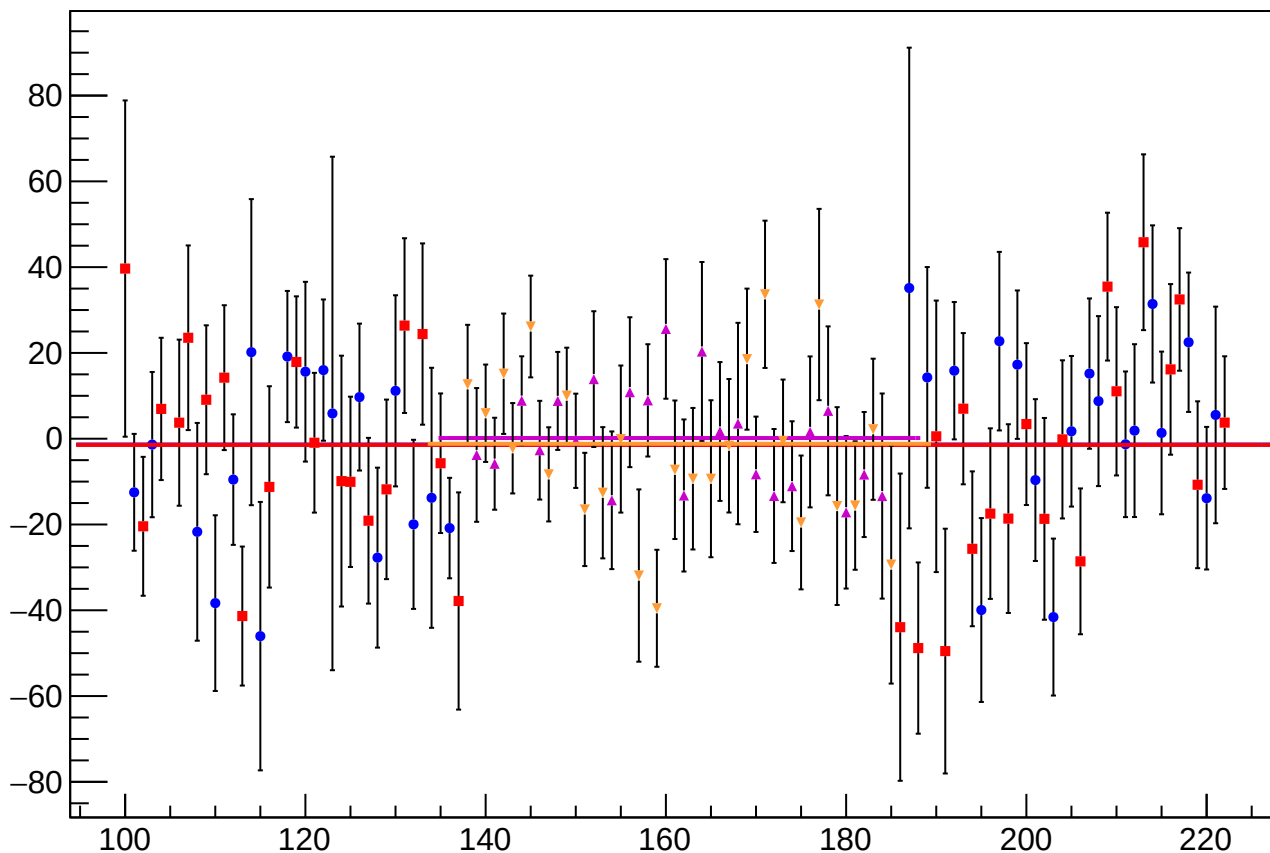
All: -0.957 ± 0.669 $\chi^2/\text{NDF}: 132.8/120$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5526.496 $\pm$ 0.920	χ^2/NDF : 2269642.6/34	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5428.901 $\pm$ 0.640	χ^2/NDF : 5832394.2/72
Right Out: 5337.754 $\pm$ 0.889	χ^2/NDF : 3541007.0/37	In: 5547.354 $\pm$ 0.673	χ^2/NDF : 4433534.8/57
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5568.077 $\pm$ 0.665	χ^2/NDF : 5383270.9/62
		All: 5557.835 $\pm$ 0.473	χ^2/NDF : 9817285.1/12

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.360 ± 3.208 $\chi^2/\text{NDF}: 36.9/34$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -1.442 ± 3.150 $\chi^2/\text{NDF}: 52.0/37$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

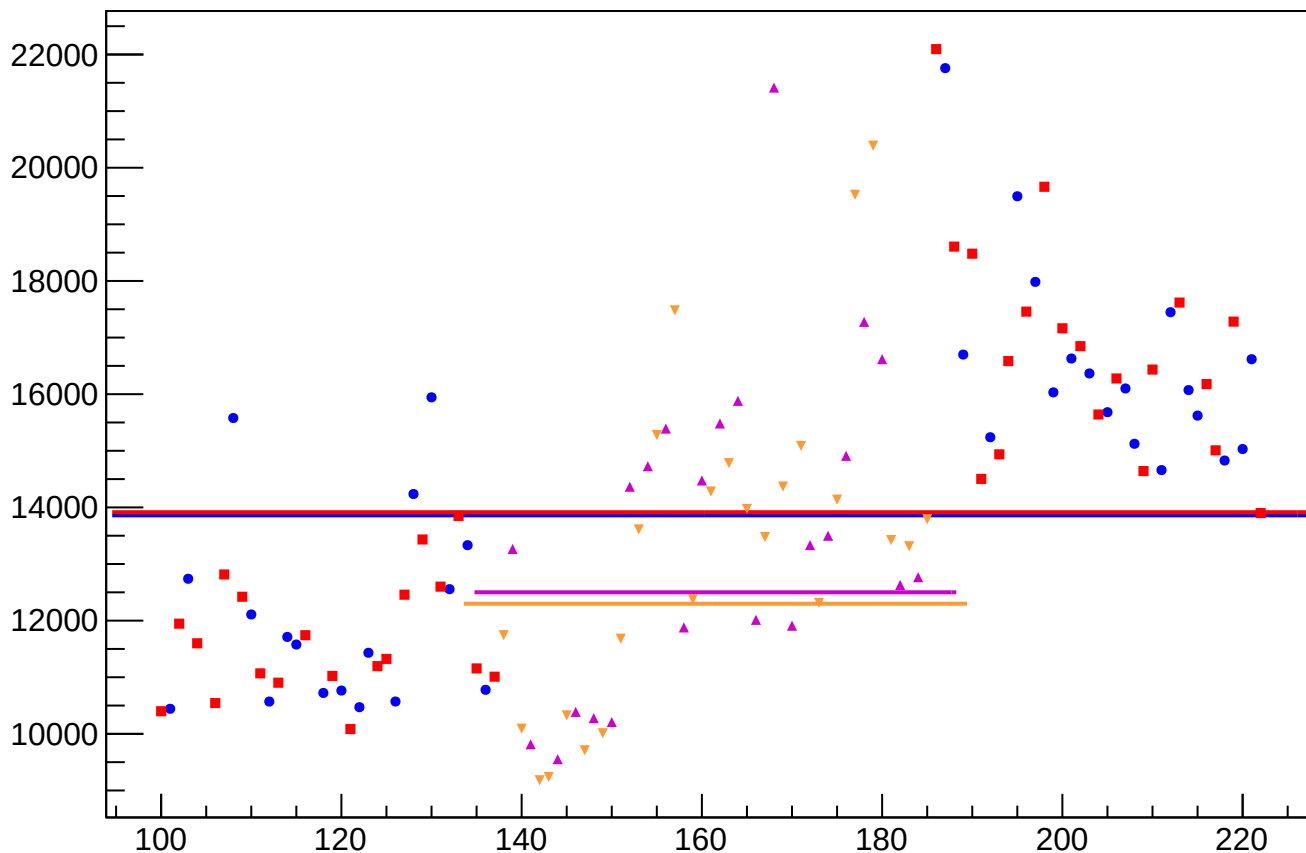
Right: -1.402 ± 2.247 $\chi^2/\text{NDF}: 88.9/72$

In: -0.565 ± 2.213 $\chi^2/\text{NDF}: 48.5/57$

Out: -1.303 ± 2.149 $\chi^2/\text{NDF}: 85.7/62$

All: -0.945 ± 1.542 $\chi^2/\text{NDF}: 134.3/120$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13860.056+/-2.268

χ^2/NDF : 1350699.8/34

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 13888.179+/-1.589 χ^2/NDF : 2847897.0/72

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 13147.915+/-1.565 χ^2/NDF : 2896708.6/57

Right Out: 13915.288+/-2.227

χ^2/NDF : 1496895.4/37

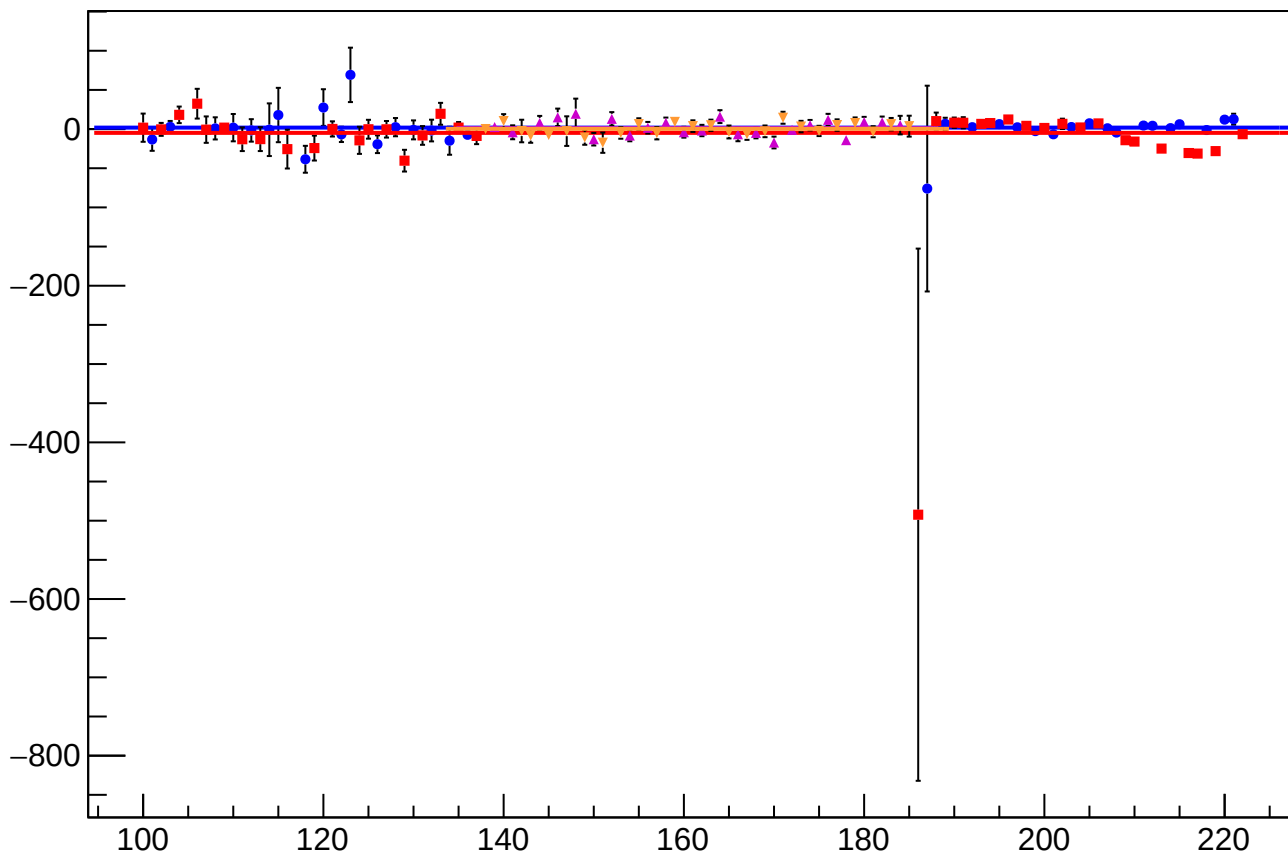
Out: 13051.072+/-1.519 χ^2/NDF : 3284584.0/62

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 13098.057+/-1.090 χ^2/NDF : 6183263.7/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.864 ± 1.084 χ^2/NDF : 38.2/34

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: -4.843 ± 1.085 χ^2/NDF : 179.8/37

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

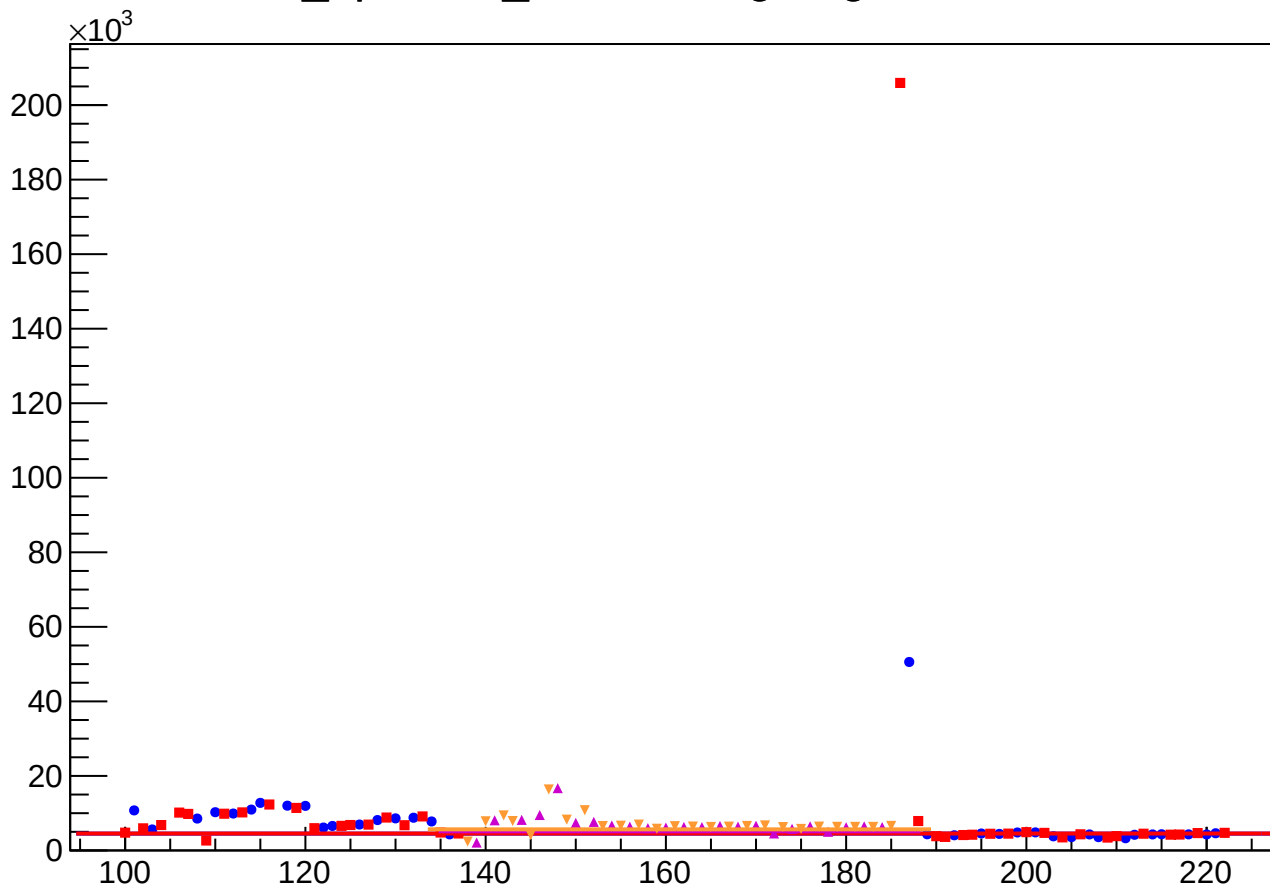
Right: -1.488 ± 0.767 χ^2/NDF : 237.1/72

In: 1.595 ± 0.850 χ^2/NDF : 72.0/57

Out: -2.951 ± 0.865 χ^2/NDF : 207.3/62

All: -0.640 ± 0.606 χ^2/NDF : 293.3/120

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4515.417 $\pm$ 0.767 χ^2/NDF : 3453124.7/34

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4539.417 $\pm$ 0.767 χ^2/NDF : 3976633.4/37

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

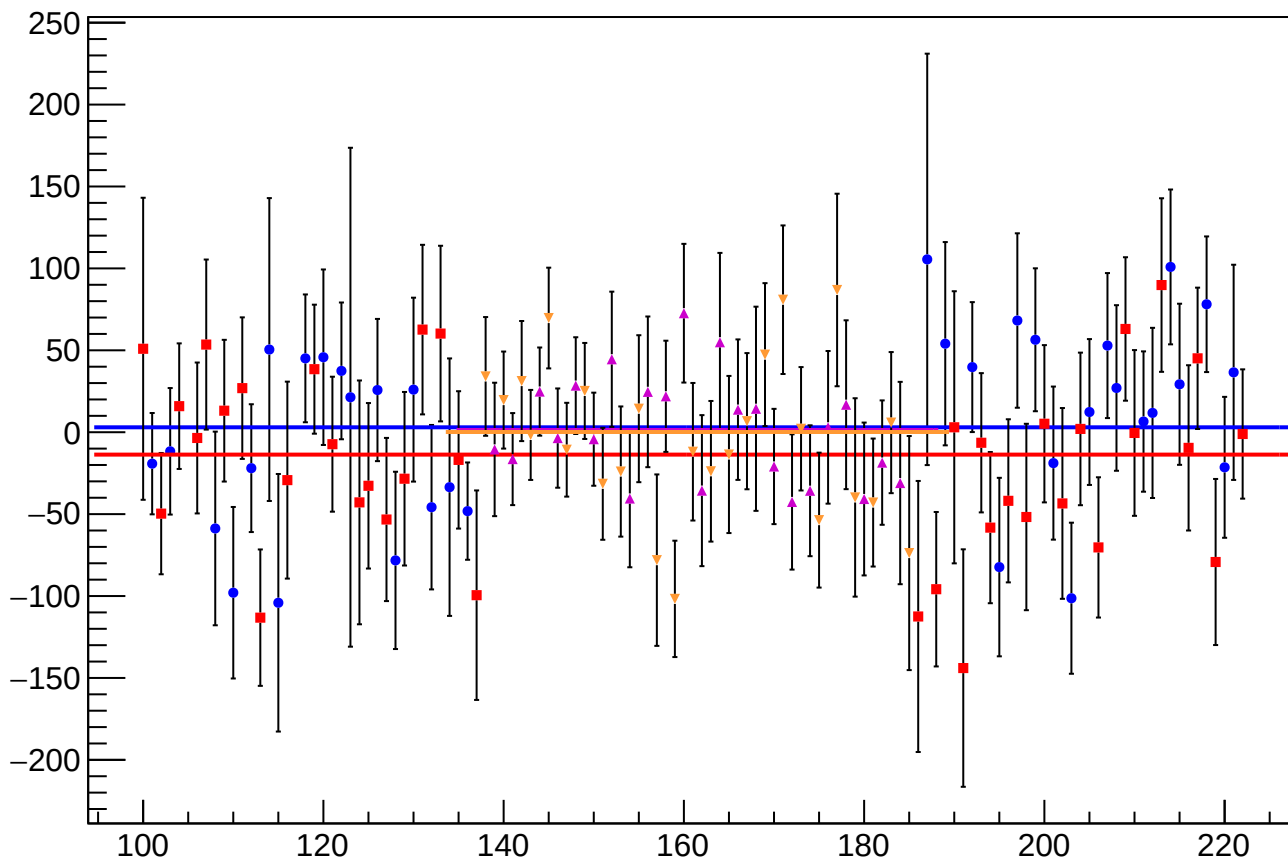
Right: 4527.413 $\pm$ 0.542 χ^2/NDF : 7430248.0/72

In: 4754.782 $\pm$ 0.601 χ^2/NDF : 9202210.2/57

Out: 4947.172 $\pm$ 0.612 χ^2/NDF : 8881761.8/62

All: 4849.364 $\pm$ 0.429 χ^2/NDF : 18134285.0/131

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 2.999 $\pm$ 8.045 χ^2/NDF : 40.3/34

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF : 31.3/24

Right Out: -13.668 $\pm$ 7.899 χ^2/NDF : 41.8/37

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

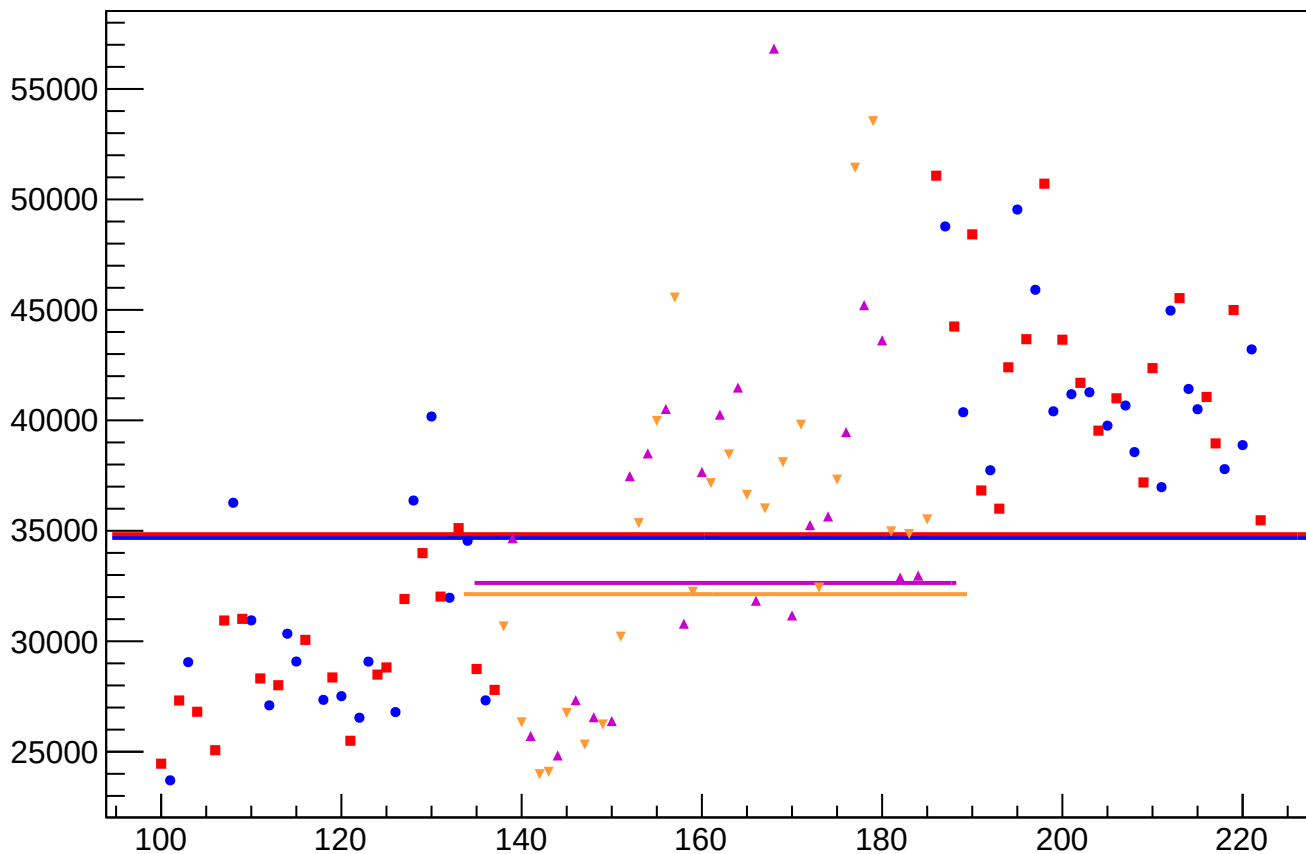
Right: -5.488 $\pm$ 5.636 χ^2/NDF : 84.3/72

In: 2.181 $\pm$ 5.669 χ^2/NDF : 53.6/57

Out: -6.572 $\pm$ 5.507 χ^2/NDF : 74.7/62

All: -2.322 $\pm$ 3.950 χ^2/NDF : 129.5/120

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34680.321+/-5.689

χ^2/NDF : 1494145.0/34

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 34847.835+/-5.585

χ^2/NDF : 1607752.2/37

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916

χ^2/NDF : 2946456.2/47

Right: 34765.618+/-3.985

χ^2/NDF : 3102338.7/72

In: 33653.748+/-4.009

χ^2/NDF : 2960990.2/57

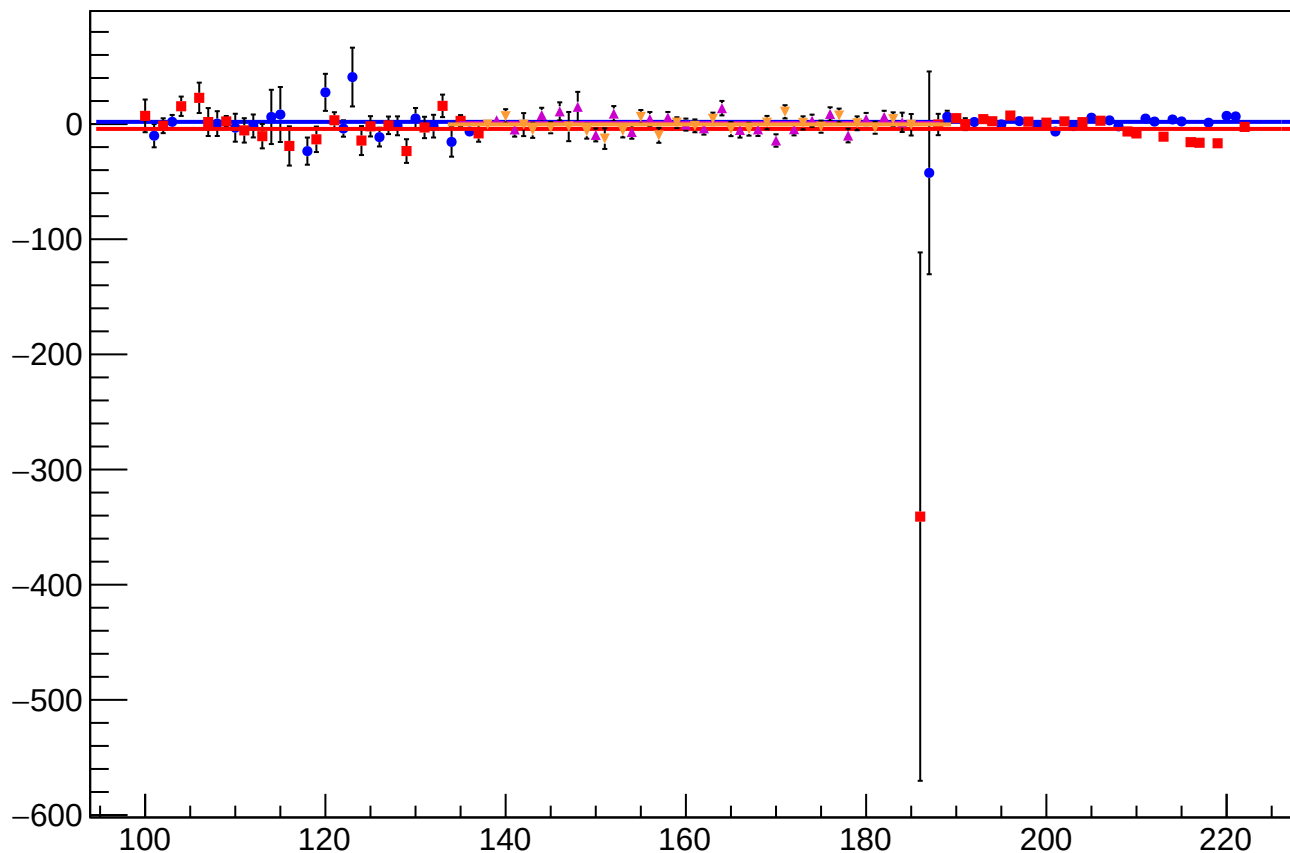
Out: 33452.538+/-3.894

χ^2/NDF : 3269293.3/62

All: 33550.230+/-2.793

χ^2/NDF : 6231579.6/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.901 ± 0.612 $\chi^2/\text{NDF}: 48.9/34$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -4.223 ± 0.639 $\chi^2/\text{NDF}: 170.6/37$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

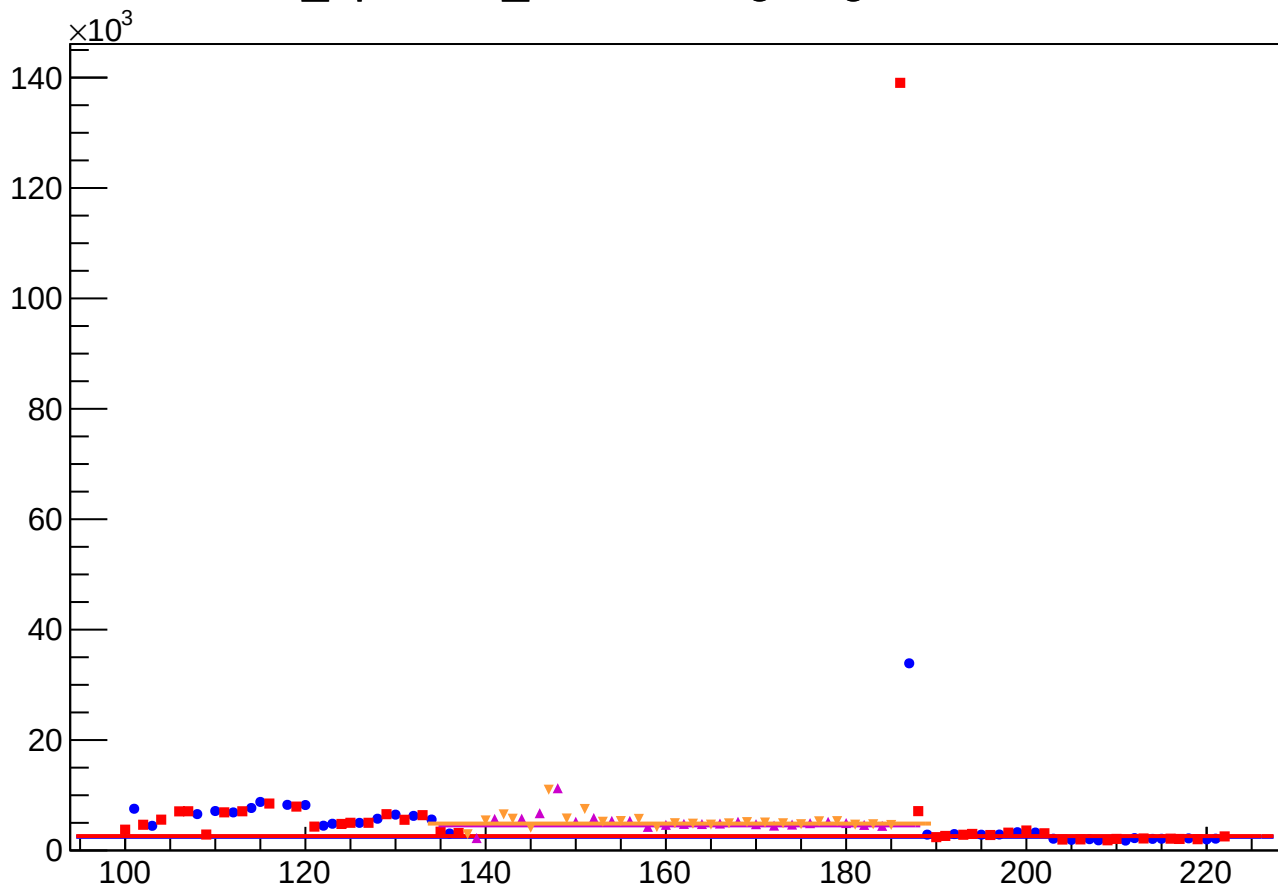
Right: -1.032 ± 0.442 $\chi^2/\text{NDF}: 267.4/72$

In: 1.679 ± 0.540 $\chi^2/\text{NDF}: 85.6/57$

Out: -3.327 ± 0.561 $\chi^2/\text{NDF}: 196.9/62$

All: -0.728 ± 0.389 $\chi^2/\text{NDF}: 323.9/120$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2468.948 $\pm$ 0.433 χ^2/NDF : 5669357.9/34

Left Out: 4868.567 $\pm$ 0.829 χ^2/NDF : 1511151.0/24

Right Out: 2603.423 $\pm$ 0.452 χ^2/NDF : 6207499.8/37

Left In: 4544.337 $\pm$ 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 $\pm$ 0.578 χ^2/NDF : 4223993.0/47

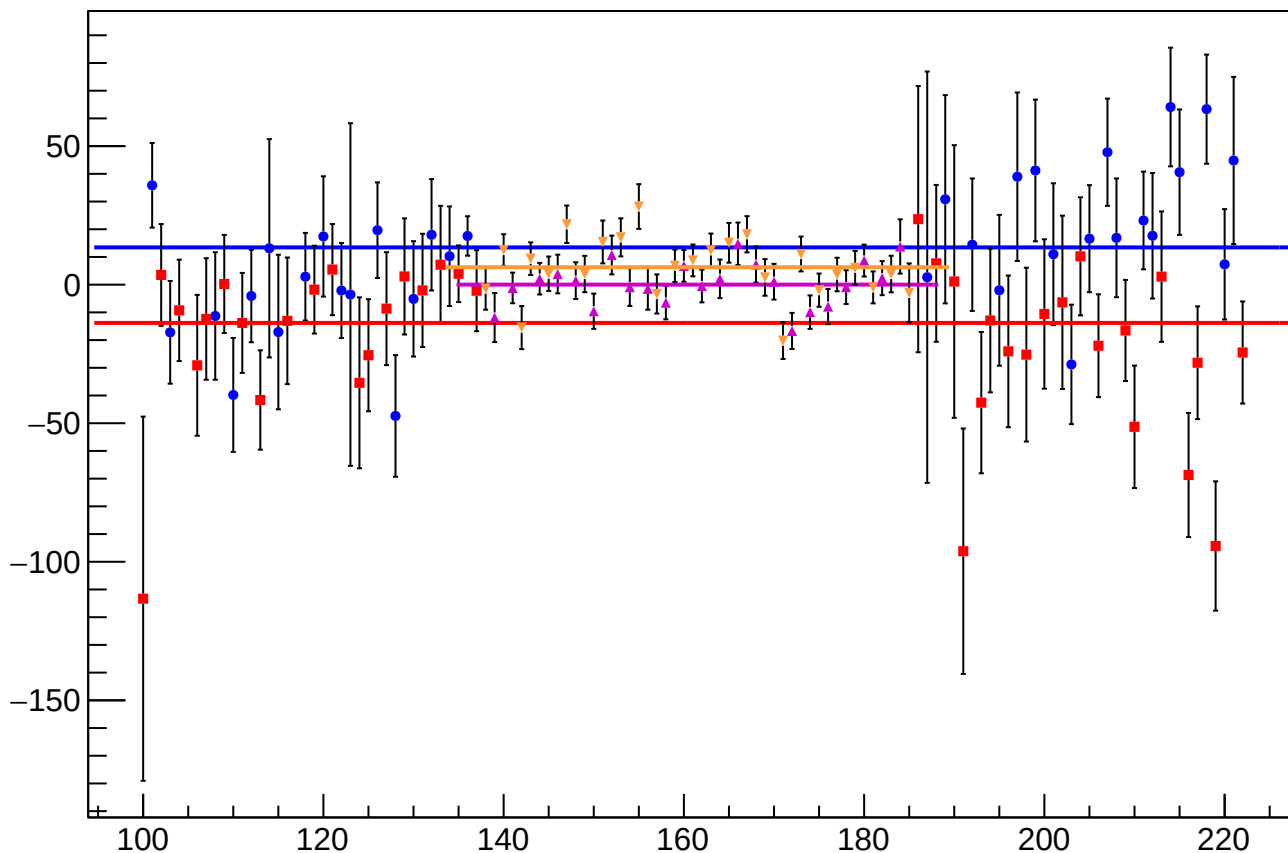
Right: 2533.357 $\pm$ 0.313 χ^2/NDF : 11923049.9/72

In: 2932.334 $\pm$ 0.382 χ^2/NDF : 13432539.9/57

Out: 3122.338 $\pm$ 0.397 χ^2/NDF : 13481131.0/62

All: 3023.695 $\pm$ 0.275 χ^2/NDF : 27032860.3/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.450 ± 3.277 χ^2/NDF : 49.9/34

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -13.802 ± 3.383 χ^2/NDF : 45.0/37

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

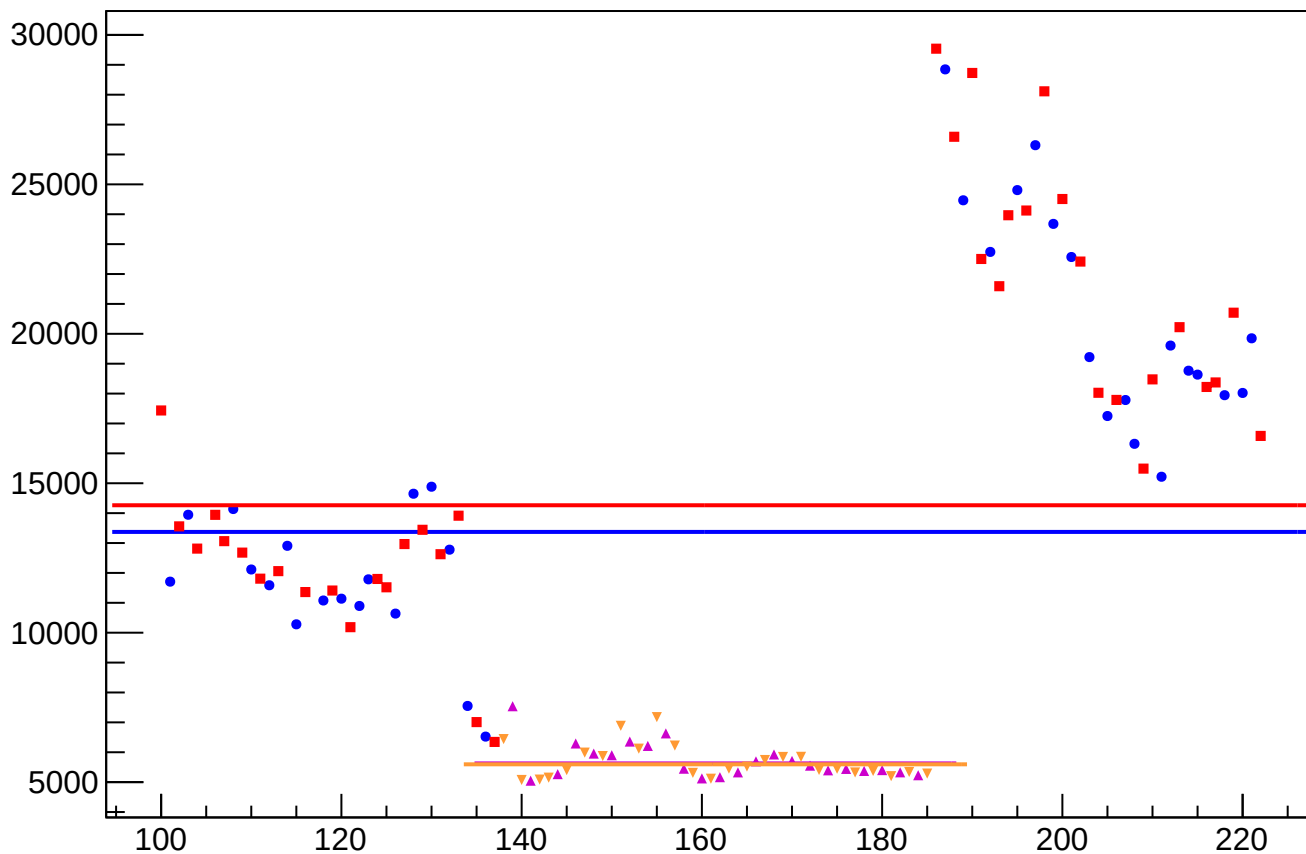
Right: 0.259 ± 2.354 χ^2/NDF : 128.4/72

In: 1.977 ± 1.251 χ^2/NDF : 94.2/57

Out: 3.675 ± 1.222 χ^2/NDF : 132.2/62

All: 2.845 ± 0.874 χ^2/NDF : 227.4/120

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13371.772 $\pm$ 2.317 χ^2/NDF : 5276506.3/34

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF : 283998.1/24

Right Out: 14263.637 $\pm$ 2.392 χ^2/NDF : 5015360.5/37

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

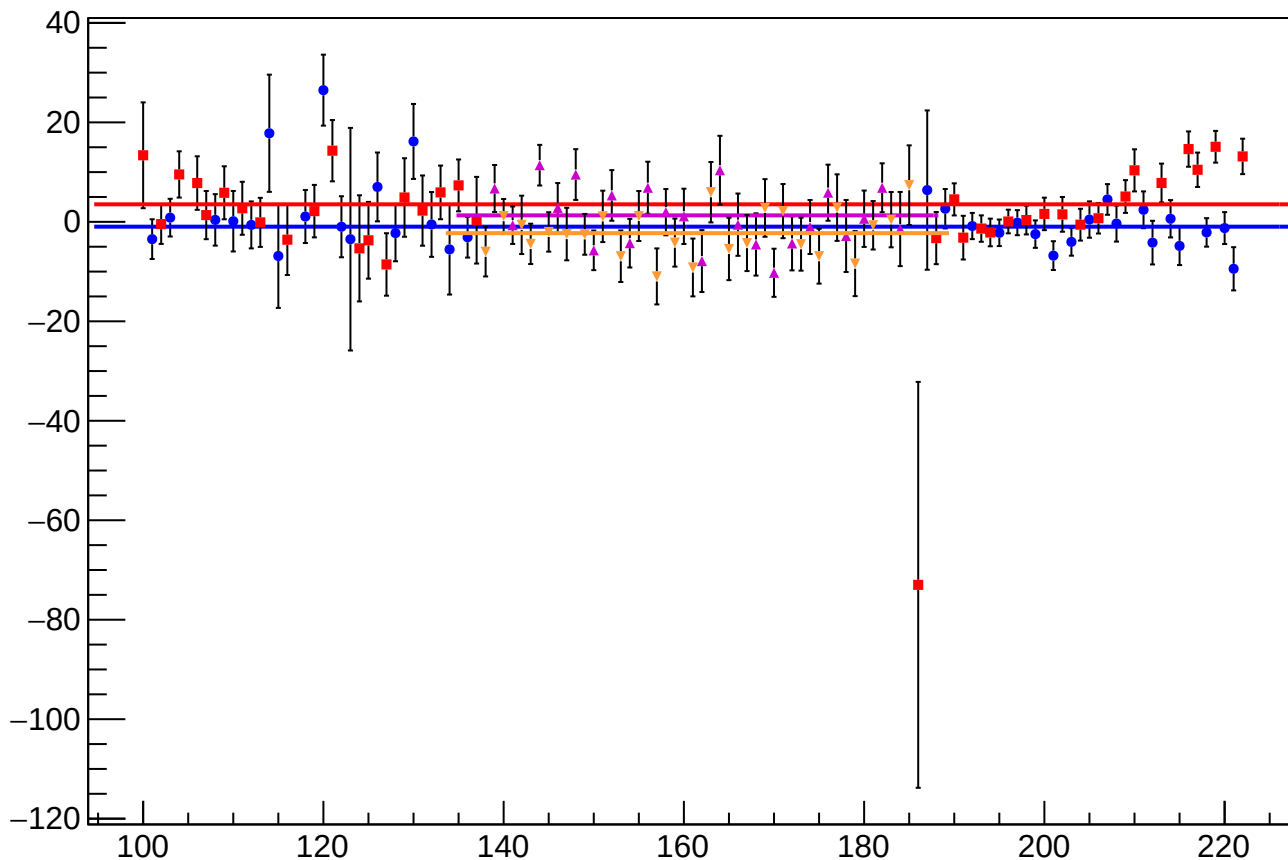
Right: 13803.473 $\pm$ 1.664 χ^2/NDF : 10363578.9/72

In: 6755.388 $\pm$ 0.884 χ^2/NDF : 15099679.5/57

Out: 6726.709 $\pm$ 0.864 χ^2/NDF : 16713862.3/62

All: 6740.713 $\pm$ 0.618 χ^2/NDF : 31814079.9/1

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.970 ± 0.676 χ^2/NDF : 42.4/34

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 3.526 ± 0.667 χ^2/NDF : 75.4/37

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

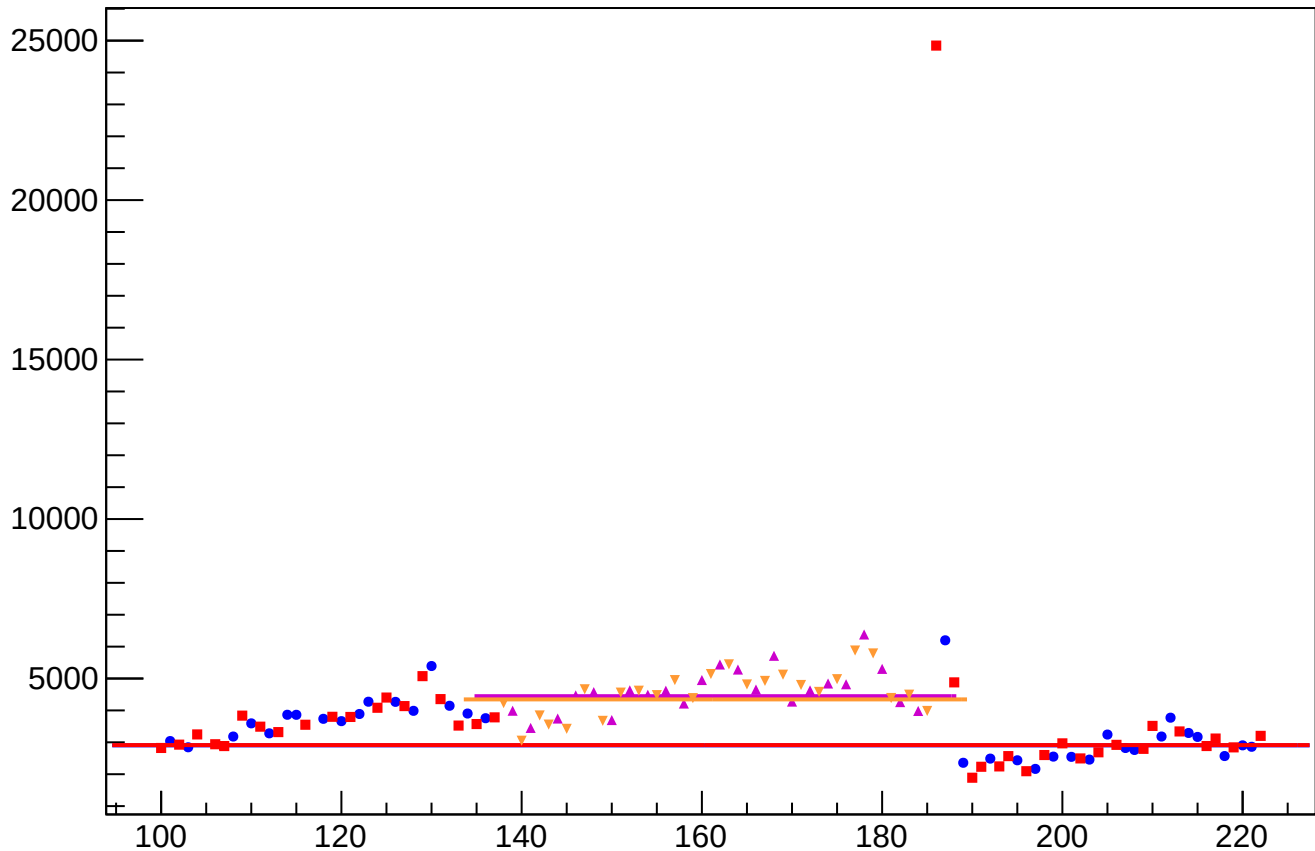
Right: 1.308 ± 0.475 χ^2/NDF : 140.2/72

In: -0.327 ± 0.573 χ^2/NDF : 76.4/57

Out: 1.812 ± 0.560 χ^2/NDF : 113.0/62

All: 0.767 ± 0.400 χ^2/NDF : 196.6/120

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2904.209+/-0.478 χ^2/NDF : 1449120.5/34

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2912.688+/-0.472 χ^2/NDF : 2360842.7/37

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

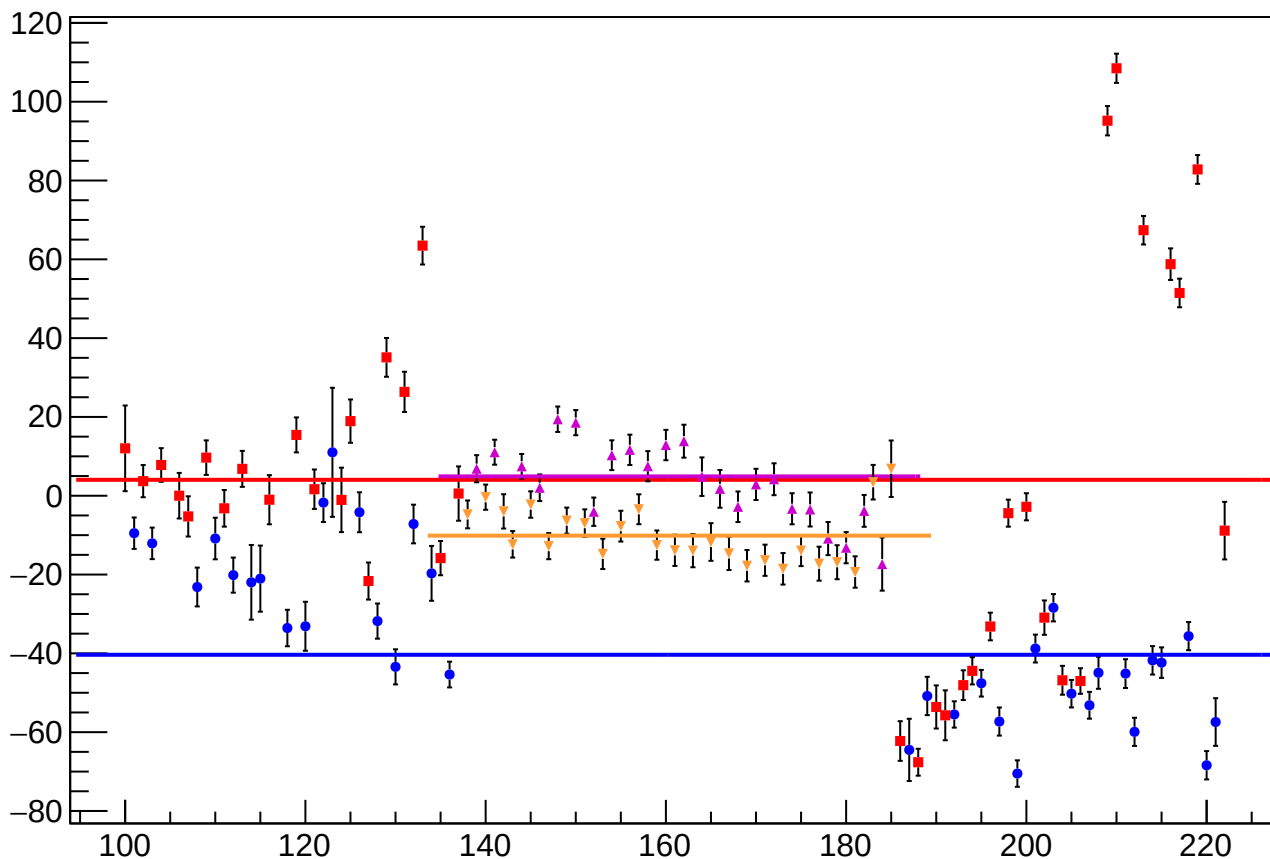
Right: 2908.505+/-0.336 χ^2/NDF : 3810122.5/72

In: 3340.103+/-0.405 χ^2/NDF : 5092390.7/57

Out: 3336.469+/-0.396 χ^2/NDF : 6089431.9/62

All: 3338.245+/-0.283 χ^2/NDF : 11181863.8/121

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.359 ± 0.713 $\chi^2/\text{NDF}: 650.3/34$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: 4.048 ± 0.706 $\chi^2/\text{NDF}: 4640.9/37$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

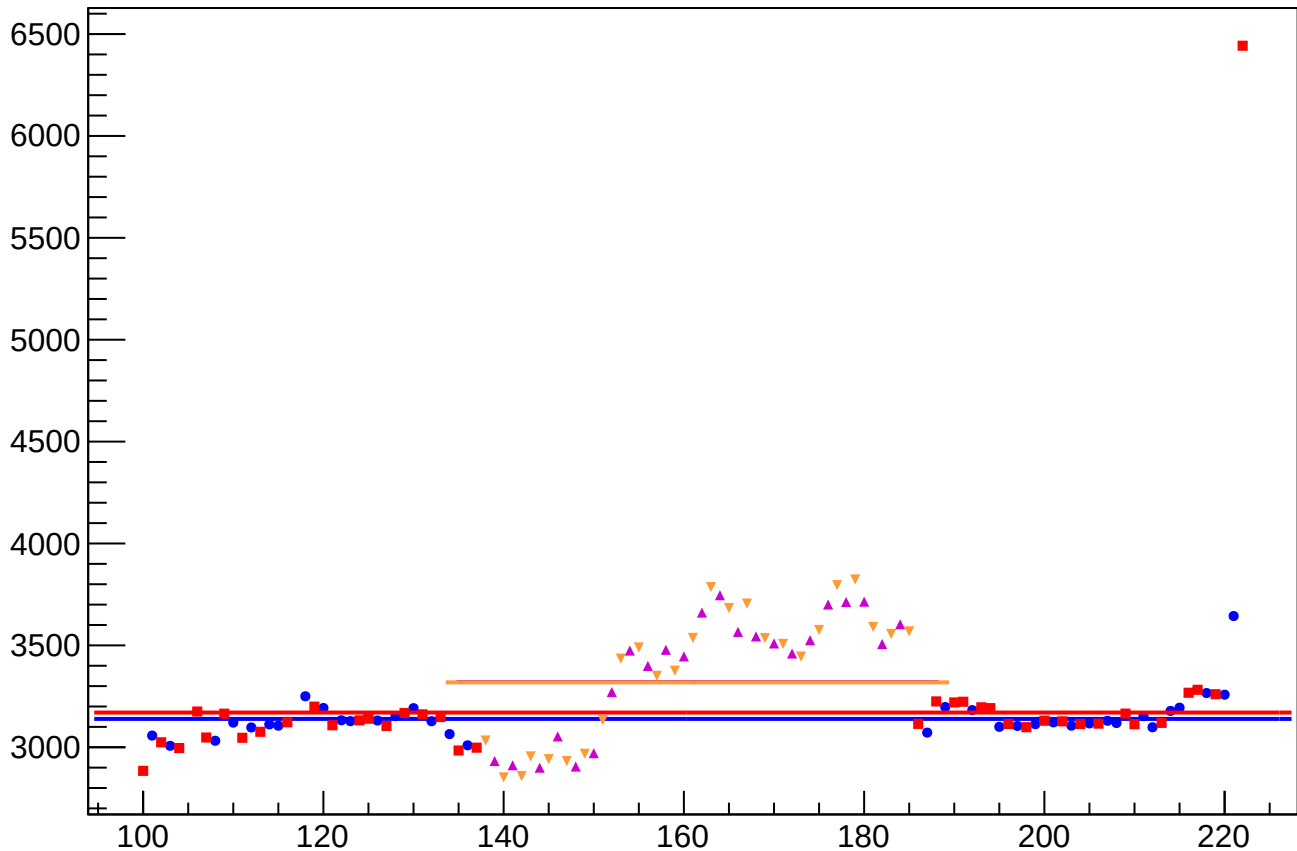
Right: -17.917 ± 0.502 $\chi^2/\text{NDF}: 7250.0/72$

In: -20.229 ± 0.532 $\chi^2/\text{NDF}: 2569.3/57$

Out: -2.372 ± 0.522 $\chi^2/\text{NDF}: 4891.6/62$

All: -11.137 ± 0.372 $\chi^2/\text{NDF}: 8035.5/120$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3139.127+/-0.504 χ^2/NDF : 30475.1/34

Left Out: 3318.506+/-0.548 χ^2/NDF : 337694.2/24

Right Out: 3170.360+/-0.499 χ^2/NDF : 426996.4/37

Left In: 3320.170+/-0.564 χ^2/NDF : 287634.9/22

Left: 3319.315+/-0.393 χ^2/NDF : 625333.6/47

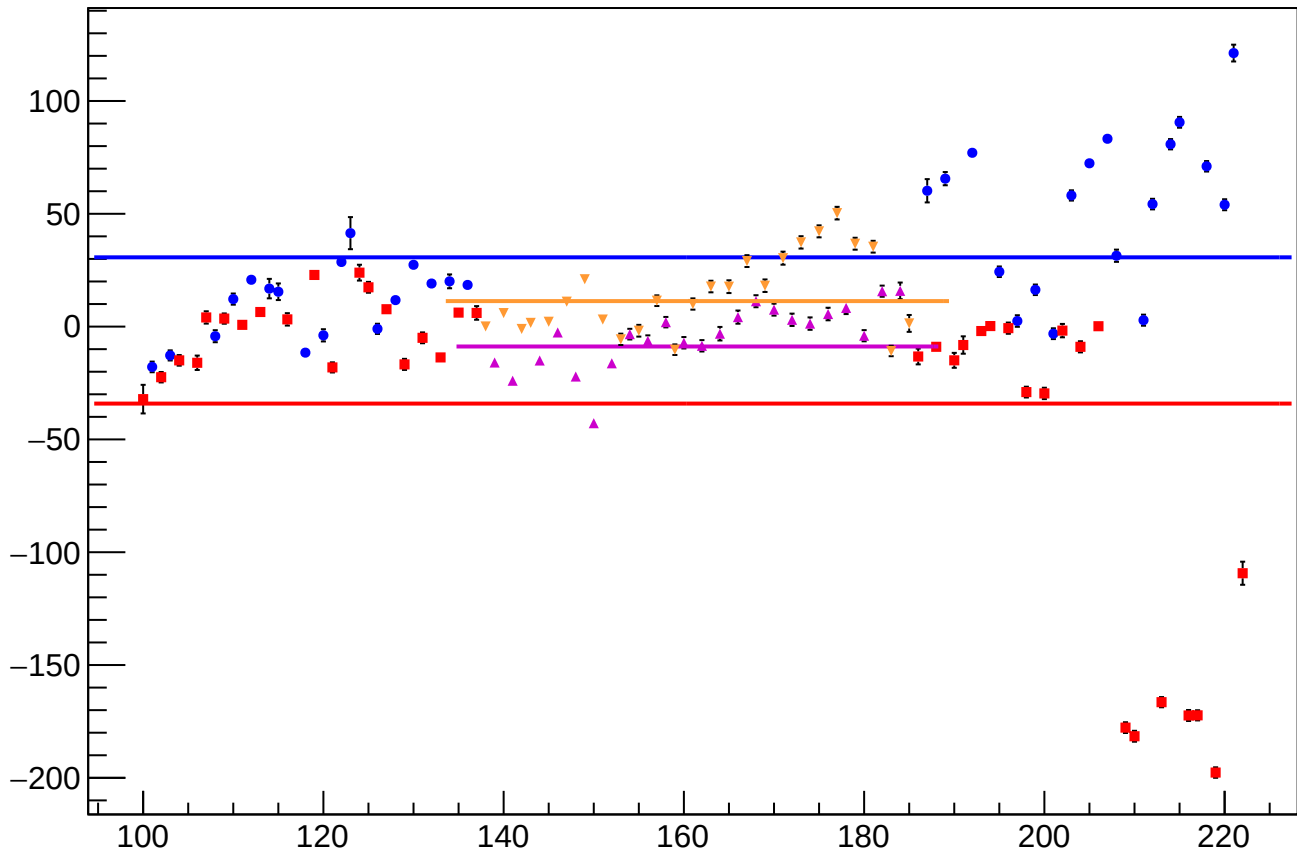
Right: 3154.911+/-0.355 χ^2/NDF : 459409.4/72

In: 3219.629+/-0.376 χ^2/NDF : 375403.0/57

Out: 3237.468+/-0.369 χ^2/NDF : 804620.1/62

All: 3228.711+/-0.263 χ^2/NDF : 1181170.0/12

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 30.702+/-0.404 χ^2/NDF : 6503.5/34

Left Out: 11.305+/-0.454 χ^2/NDF :1144.3/24

Right Out: -34.122+/-0.397 χ^2/NDF : 28722.2/37

Left In: -8.815+/-0.475 χ^2/NDF :942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

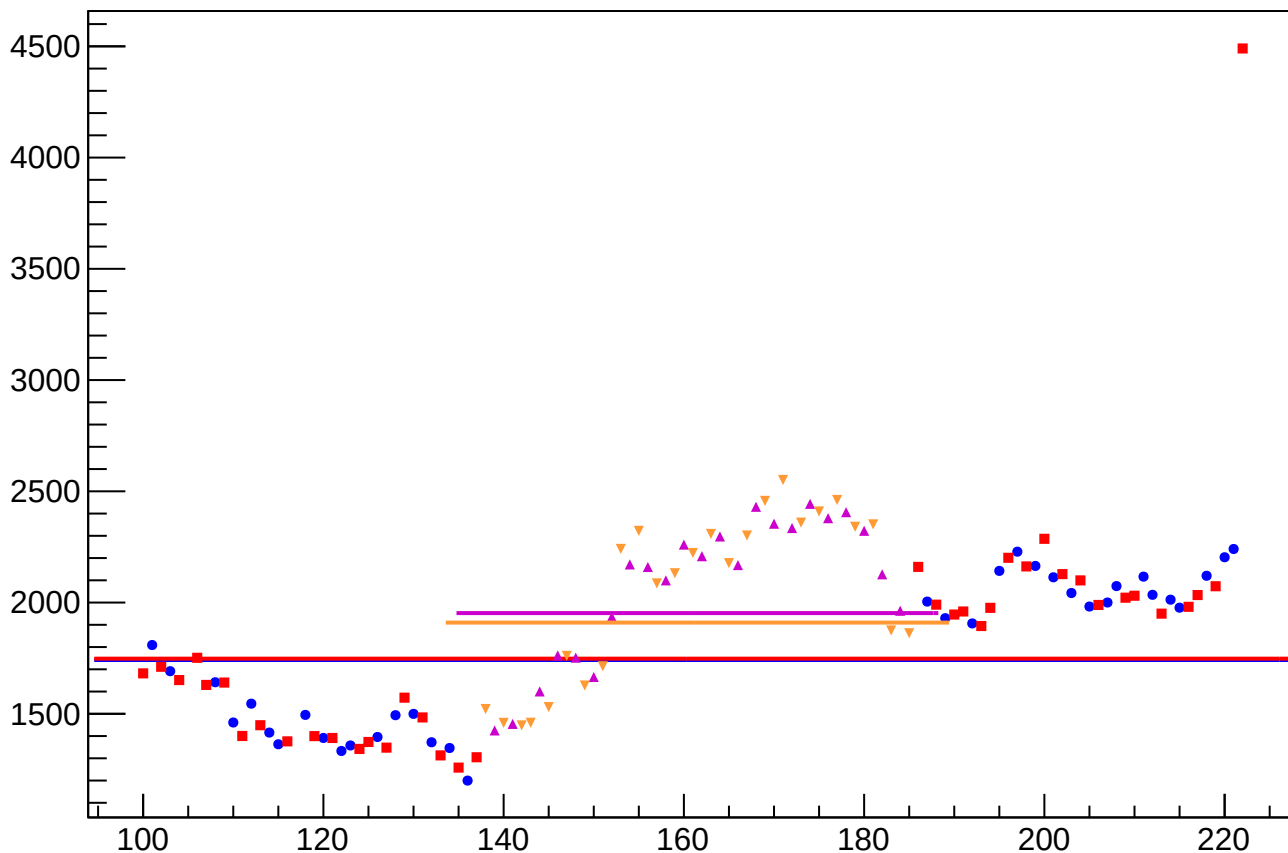
Right: -2.268+/-0.283 χ^2/NDF : 48333.1/72

In: 14.139+/-0.308 χ^2/NDF :11459.8/57

Out: -14.435+/-0.299 χ^2/NDF :35543.2/62

All: -0.571+/-0.214 χ^2/NDF : 51440.9/120

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1741.770 $\pm$ 0.286 χ^2 /NDF: 1430451.3/34

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1747.810 $\pm$ 0.281 χ^2 /NDF: 1870616.9/37

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

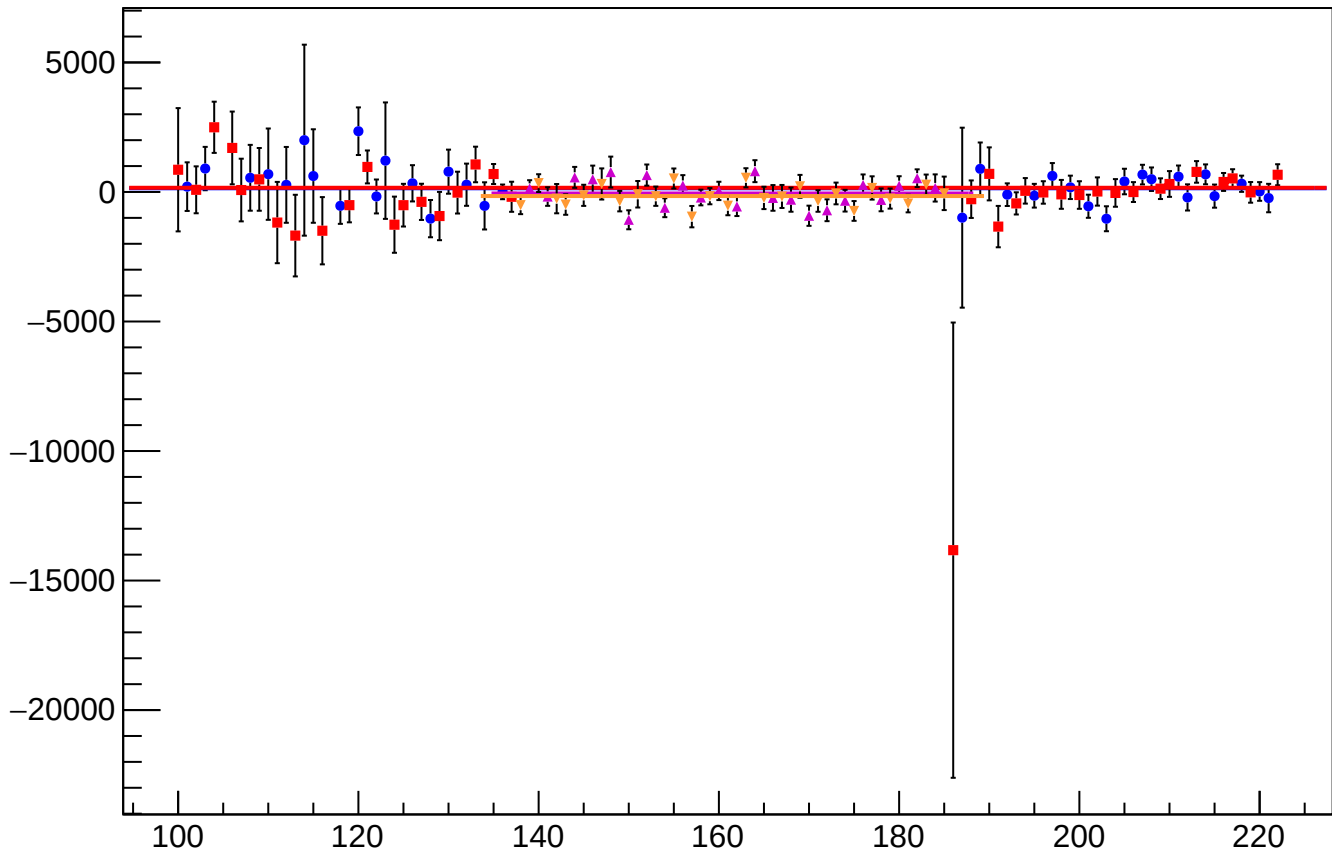
Right: 1744.842 $\pm$ 0.200 χ^2 /NDF: 3301295.7/72

In: 1830.152 $\pm$ 0.218 χ^2 /NDF:2724378.1/57

Out: 1818.082 $\pm$ 0.211 χ^2 /NDF:3414747.6/62

All: 1823.938 $\pm$ 0.152 χ^2 /NDF: 6140709.3/12

asym_sam1_mean vs Slug, Sign Corrected



Right In: 142.900 $\pm$ 91.942 χ^2 /NDF: 31.0/34

Left Out: -157.242 $\pm$ 80.796 χ^2 /NDF:22.0/24

Right Out: 162.089 $\pm$ 93.763 χ^2 /NDF: 36.9/37

Left In: -58.934 $\pm$ 82.584 χ^2 /NDF:38.5/22

Left: -109.164 $\pm$ 57.753 χ^2 /NDF: 61.3/47

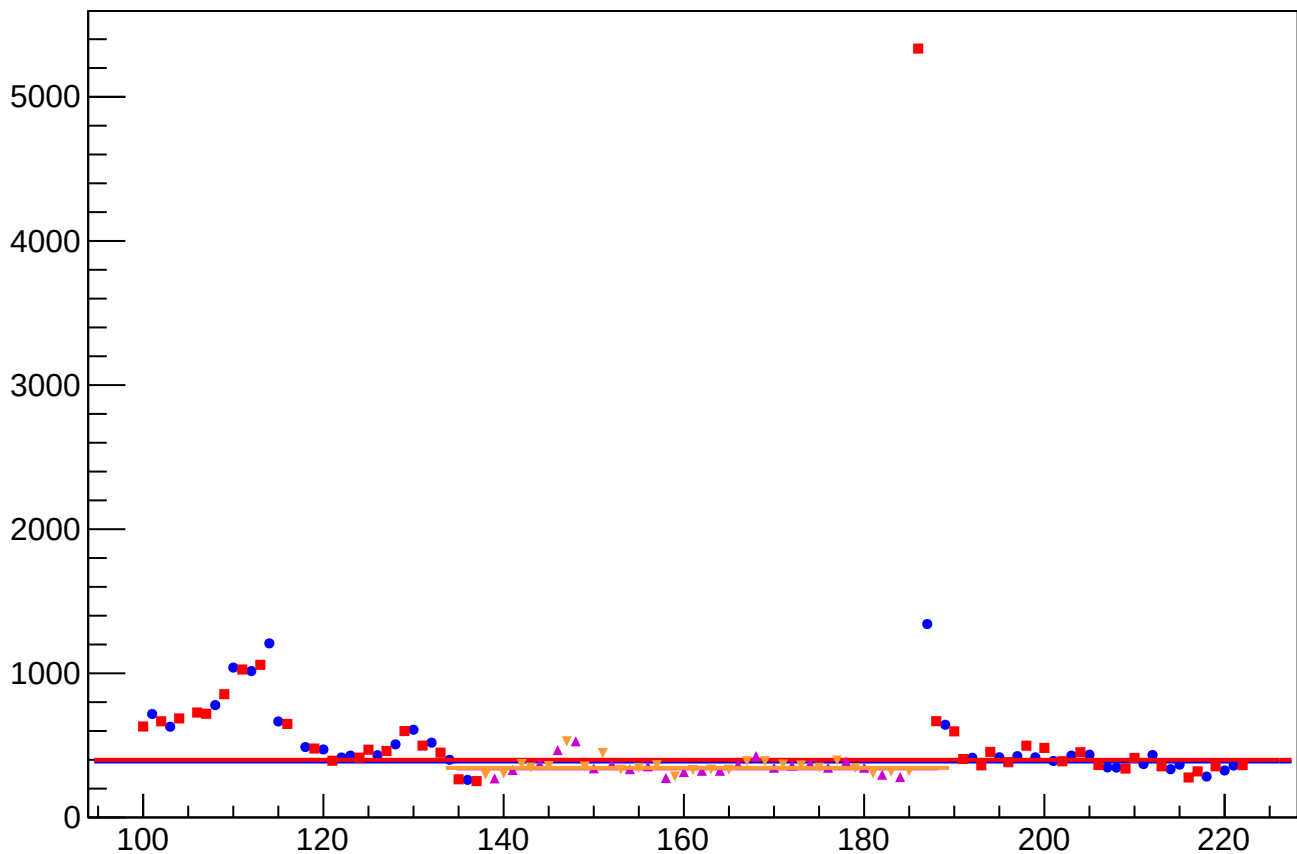
Right: 152.306 $\pm$ 65.647 χ^2 /NDF: 68.0/72

In: 31.193 $\pm$ 61.439 χ^2 /NDF:72.2/57

Out: -21.167 $\pm$ 61.207 χ^2 /NDF:65.6/62

All: 4.913 $\pm$ 43.361 χ^2 /NDF: 138.2/120

asym_sam1_rms vs Slug, Sign Corrected



Right In: 388.186+/-0.065 χ^2/NDF : 2842309.0/34

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 400.210+/-0.066 χ^2/NDF : 3838089.4/37

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

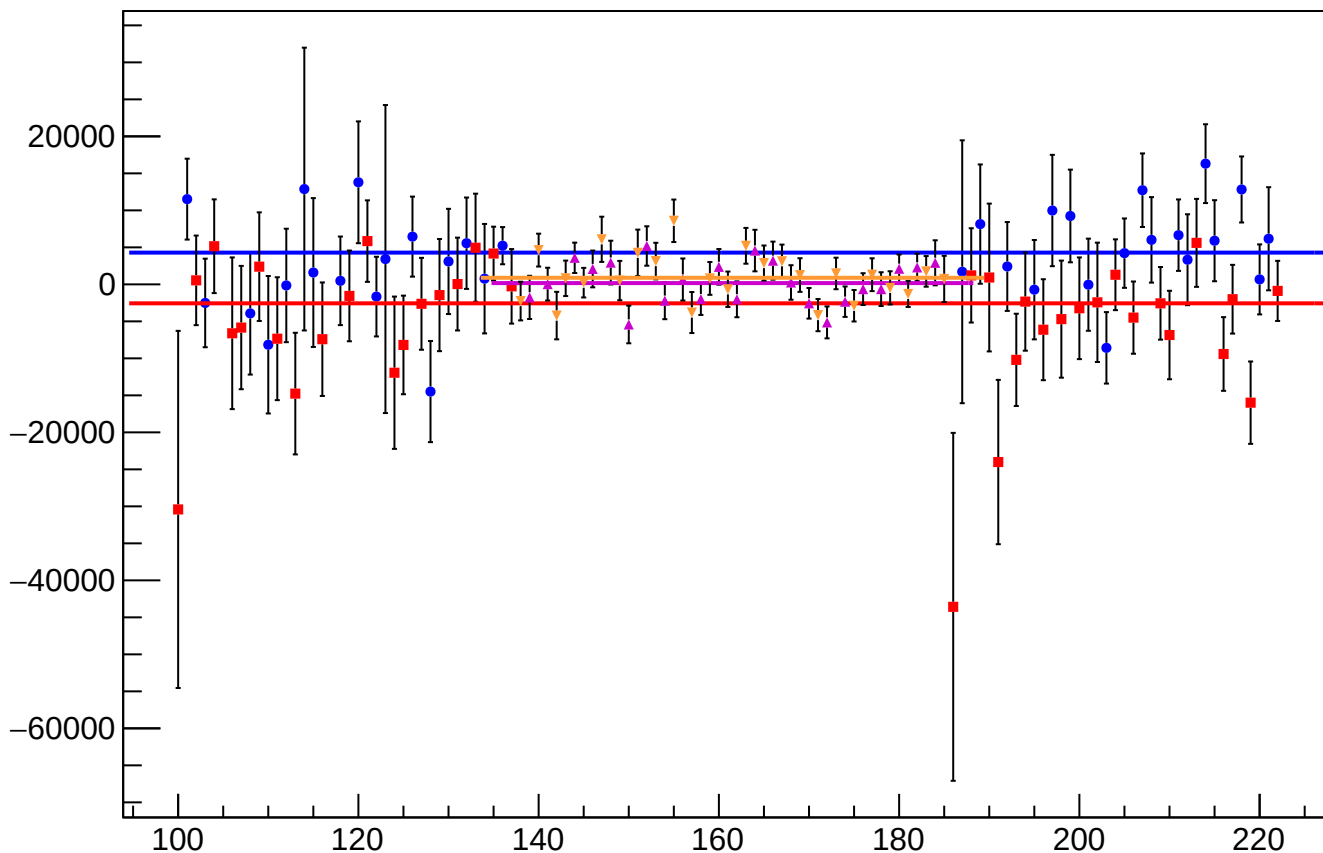
Right: 394.080+/-0.046 χ^2/NDF : 6697167.1/72

In: 362.002+/-0.043 χ^2/NDF : 3860063.0/57

Out: 367.841+/-0.043 χ^2/NDF : 4792855.4/62

All: 364.933+/-0.031 χ^2/NDF : 8661987.2/120

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4290.711 $\pm$ 987.788 χ^2 /NDF: 40.0/34

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2562.349 $\pm$ 1016.812 χ^2 /NDF: 35.8/37

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

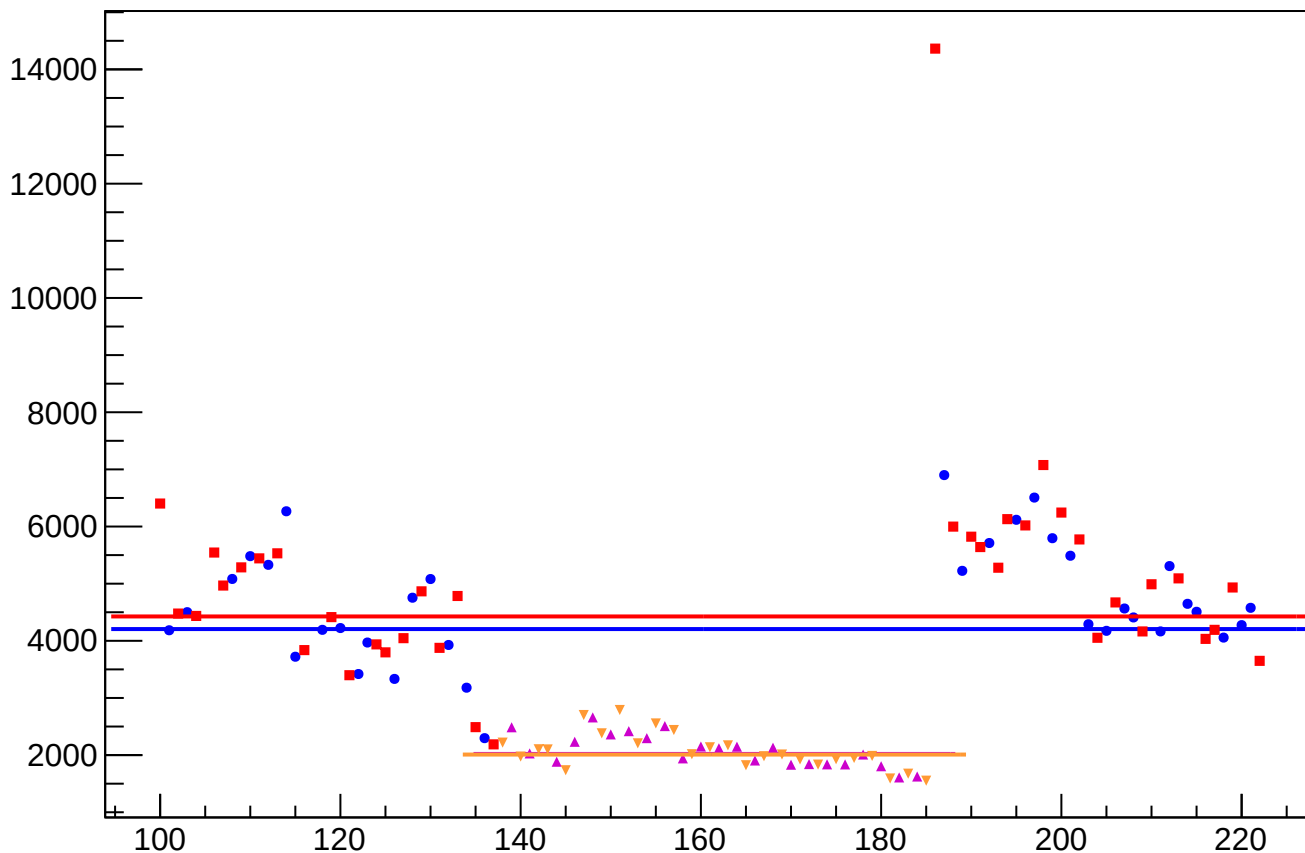
Right: 963.383 $\pm$ 708.510 χ^2 /NDF: 99.1/72

In: 980.527 $\pm$ 437.568 χ^2 /NDF:87.1/57

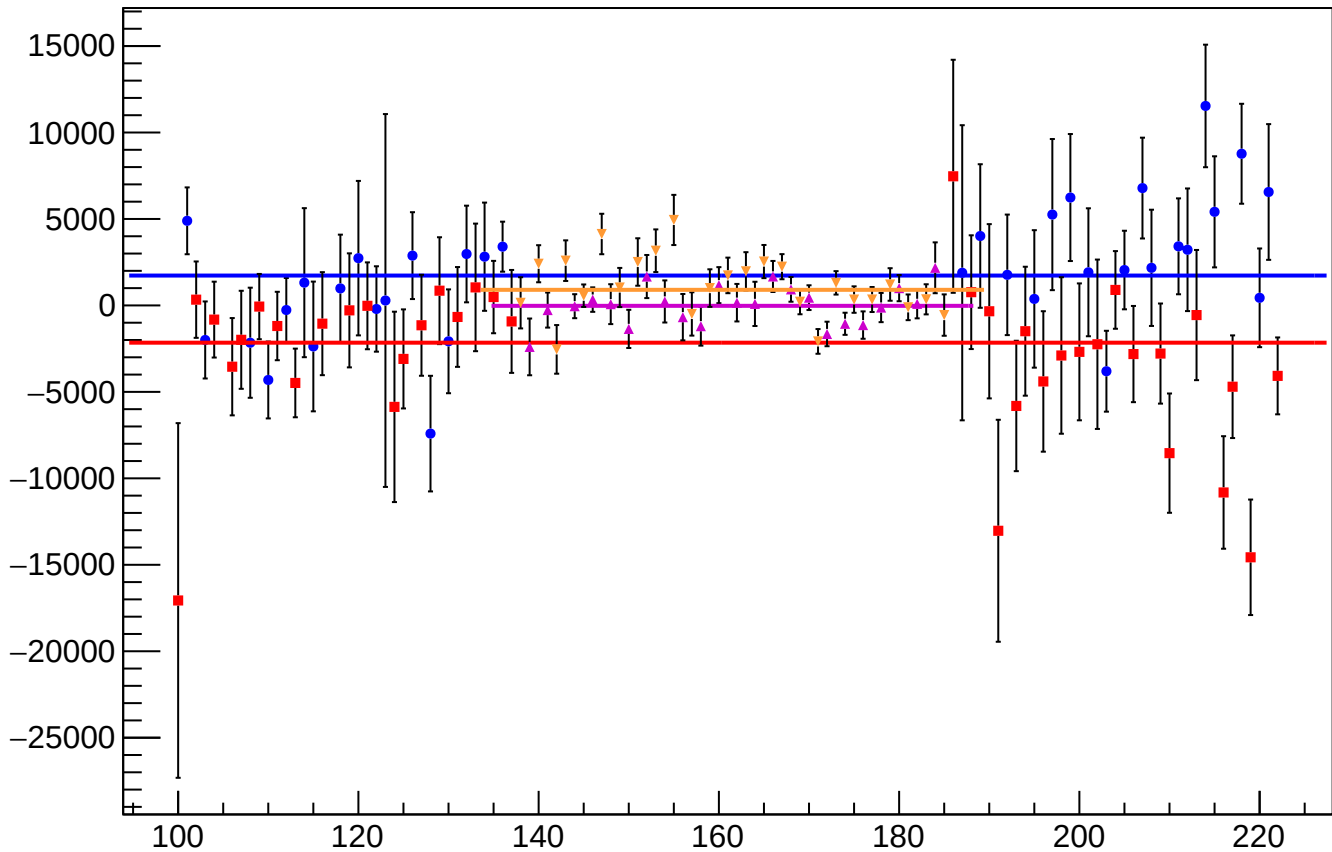
Out: 275.604 $\pm$ 429.064 χ^2 /NDF:83.2/62

All: 621.149 $\pm$ 306.356 χ^2 /NDF: 171.7/120

asym_sam2_rms vs Slug, Sign Corrected



asym_sam3_mean vs Slug, Sign Corrected



Right In: 1727.473+/-483.723 χ^2/NDF : 56.8/34

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -2154.851+/-478.120 χ^2/NDF : 47.5/37

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

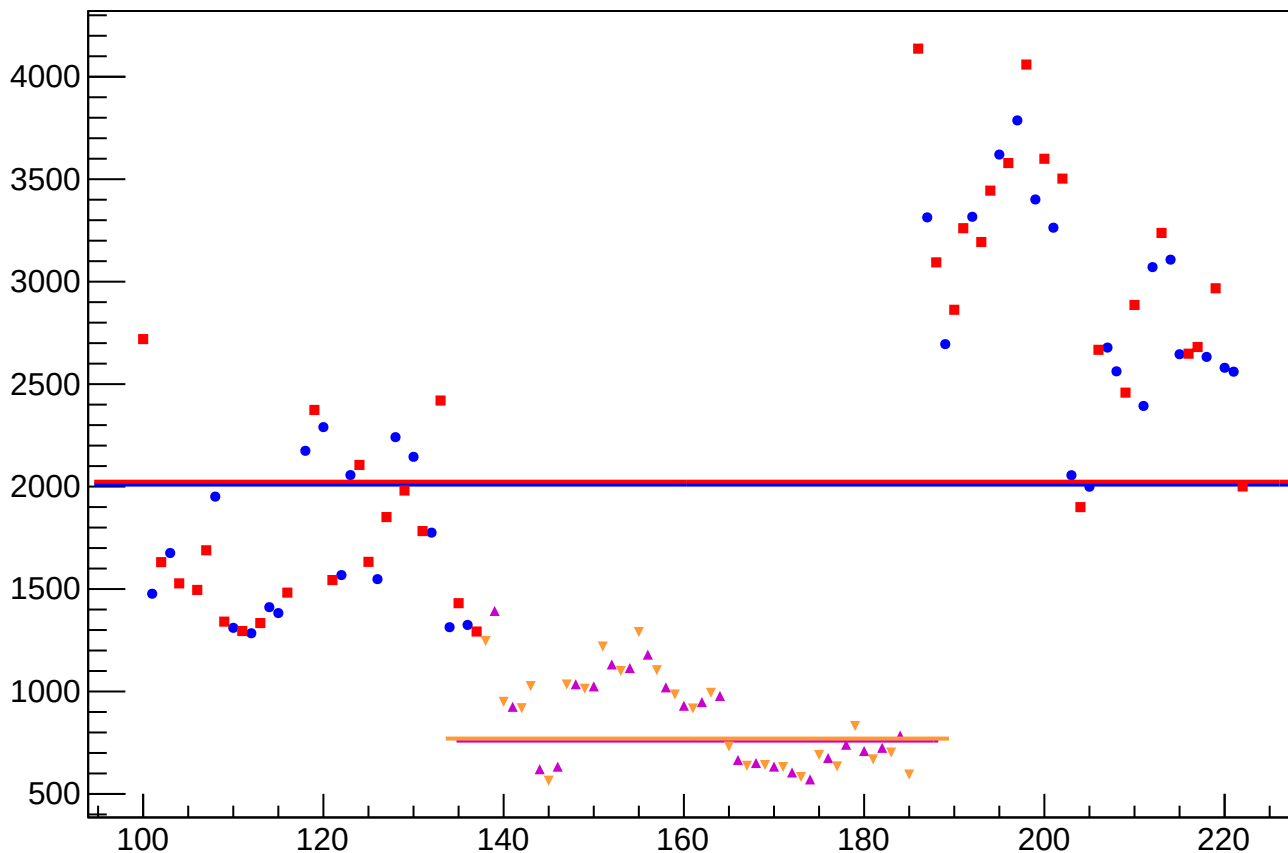
Right: -236.301+/-340.045 χ^2/NDF : 136.9/72

In: 206.543+/-175.342 χ^2/NDF : 96.4/57

Out: 500.830+/-173.224 χ^2/NDF : 146.6/62

All: 355.474+/-123.230 χ^2/NDF : 244.4/120

asym_sam3_rms vs Slug, Sign Corrected



Right In: 2009.766 $\pm$ 0.342 χ^2 /NDF: 3935484.1/34

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF:2287655.1/24

Right Out: 2023.901 $\pm$ 0.338 χ^2 /NDF: 4613931.0/37

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

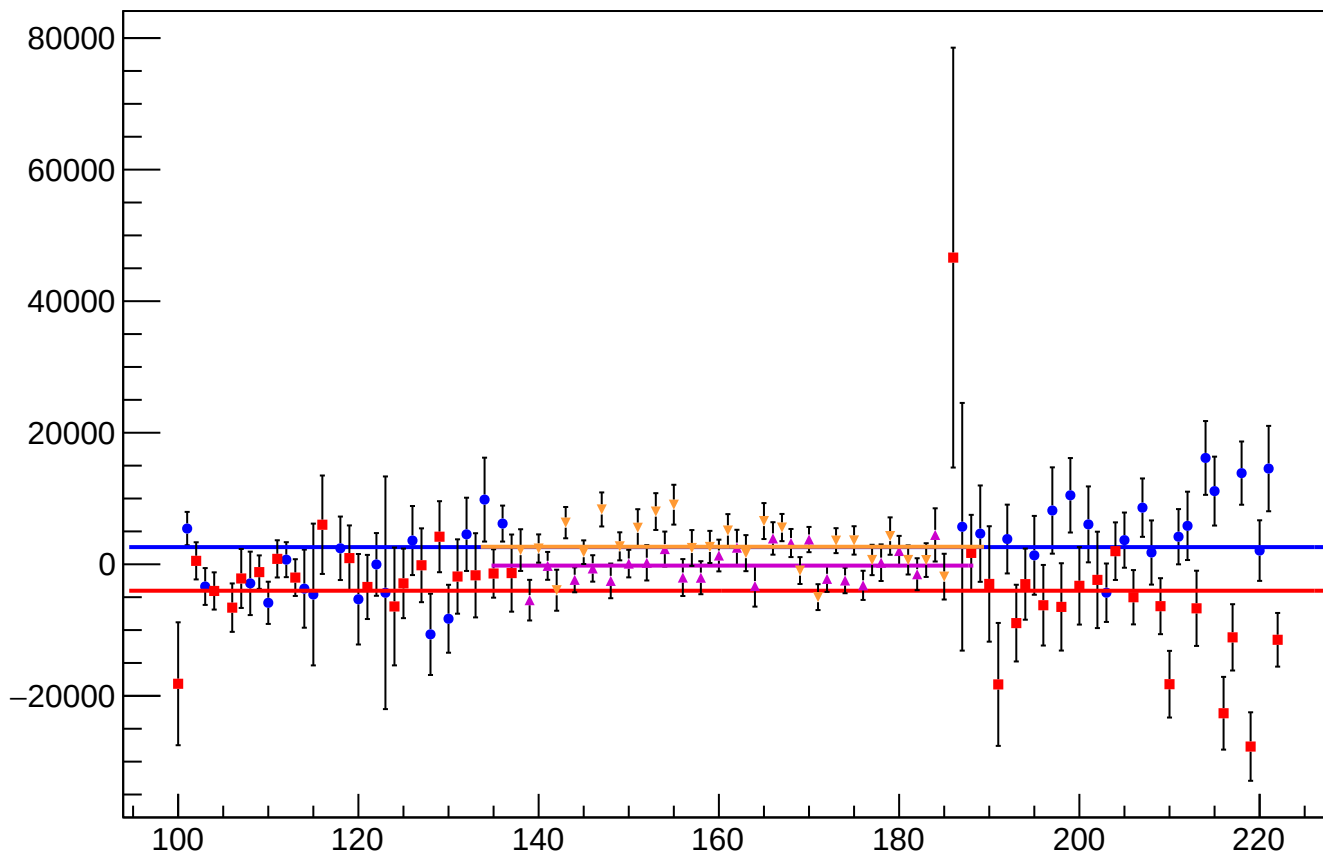
Right: 2016.916 $\pm$ 0.240 χ^2 /NDF: 8550278.9/72

In: 924.518 $\pm$ 0.124 χ^2 /NDF:17511943.5/57

Out: 934.868 $\pm$ 0.122 χ^2 /NDF:18845573.2/62

All: 929.756 $\pm$ 0.087 χ^2 /NDF: 36361043.4/120

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2612.469+/-778.365 χ^2/NDF : 55.6/34

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -4018.296+/-748.039 χ^2/NDF : 71.6/37

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

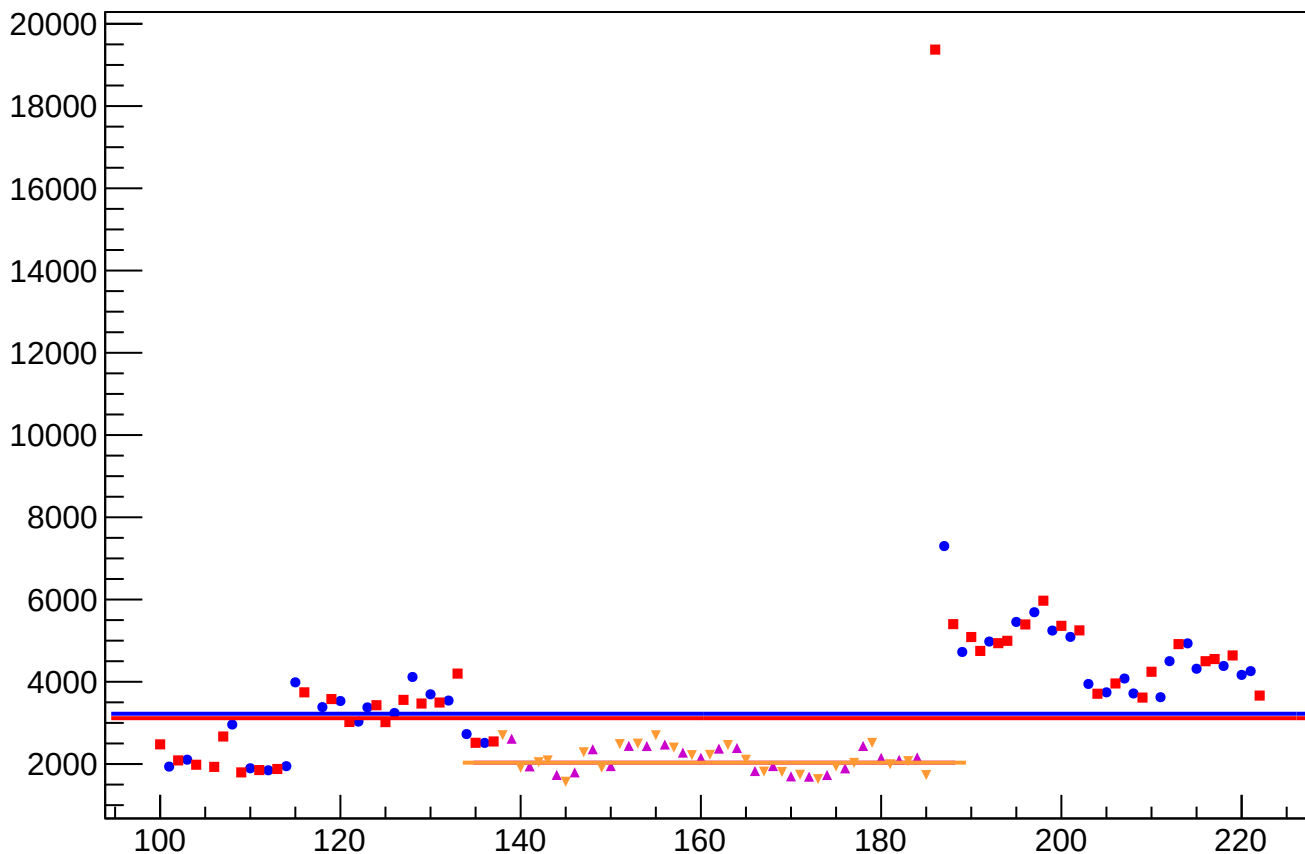
Right: -834.599+/-539.346 χ^2/NDF : 164.9/72

In: 603.548+/-415.933 χ^2/NDF : 90.7/57

Out: 717.474+/-403.847 χ^2/NDF : 177.3/62

All: 662.190+/-289.742 χ^2/NDF : 268.1/120

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3222.883+/-0.550 χ^2/NDF : 4312769.4/34

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 3114.261+/-0.529 χ^2/NDF : 5824456.0/37

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

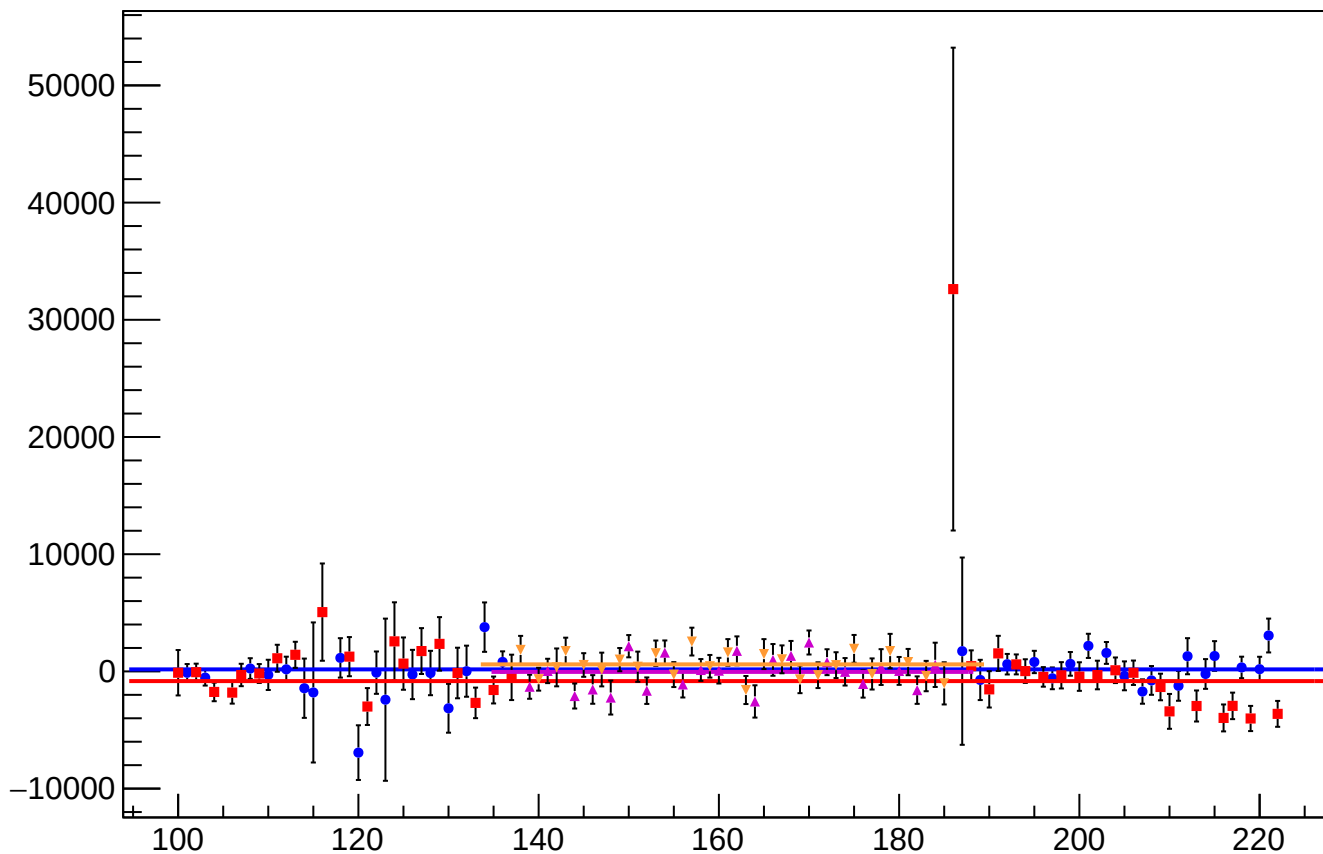
Right: 3166.415+/-0.381 χ^2/NDF : 10157473.4/72

In: 2372.523+/-0.294 χ^2/NDF : 8306686.2/57

Out: 2348.388+/-0.286 χ^2/NDF : 9607442.6/62

All: 2360.100+/-0.205 χ^2/NDF : 17917595.3/119

asym_sam5_mean vs Slug, Sign Corrected



Right In: 172.034+/-203.134 χ^2/NDF : 36.4/34

Left Out: 600.005+/-234.968 χ^2/NDF :18.5/24

Right Out: -827.126+/-193.870 χ^2/NDF : 68.3/37

Left In: -41.559+/-240.807 χ^2/NDF :36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

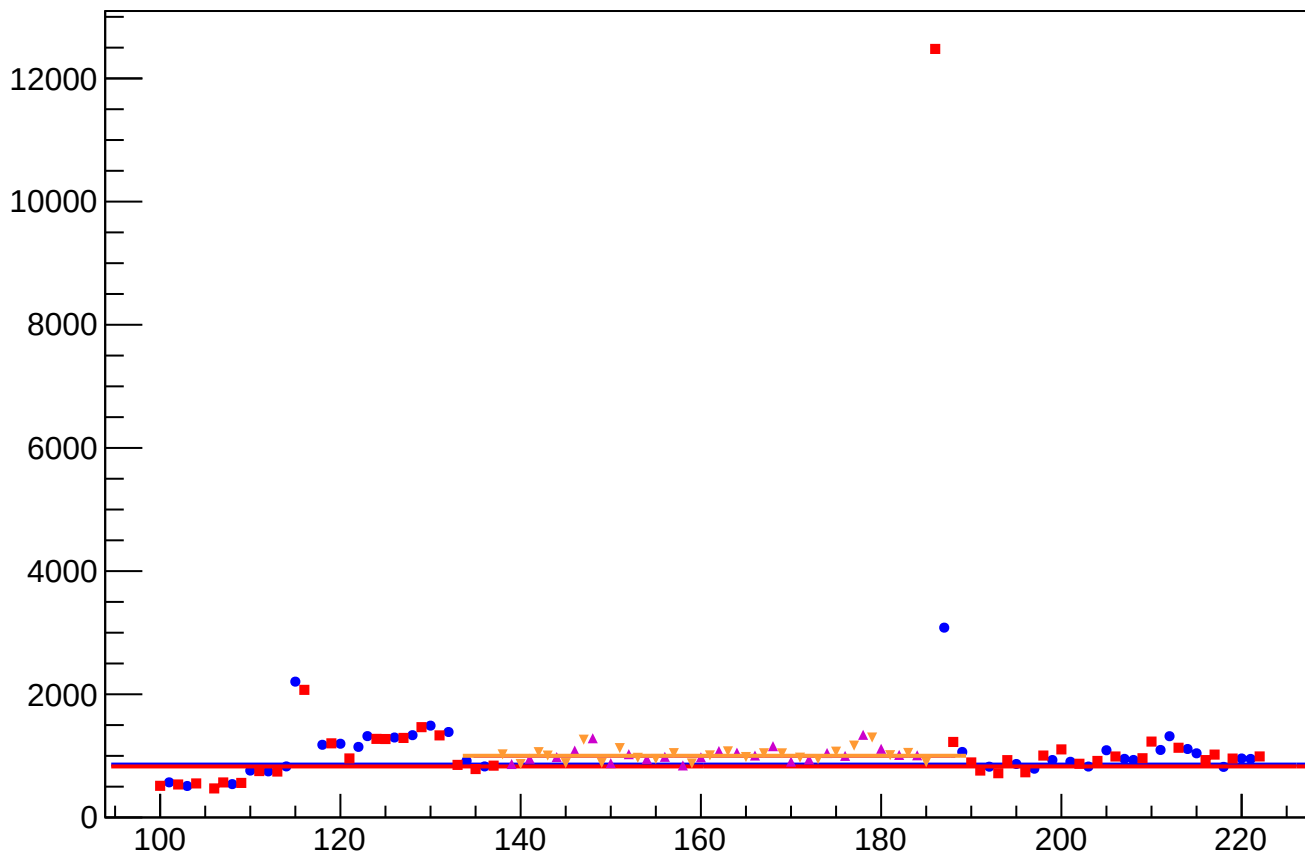
Right: -350.849+/-140.248 χ^2/NDF : 117.4/72

In: 83.233+/-155.269 χ^2/NDF :73.2/57

Out: -249.085+/-149.539 χ^2/NDF :108.8/62

All: -89.170+/-107.709 χ^2/NDF : 184.4/120

asym_sam5_rms vs Slug, Sign Corrected



Right In: 858.528+/-0.144 χ^2/NDF : 2617907.4/34

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 828.050+/-0.137 χ^2/NDF : 3629805.4/37

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

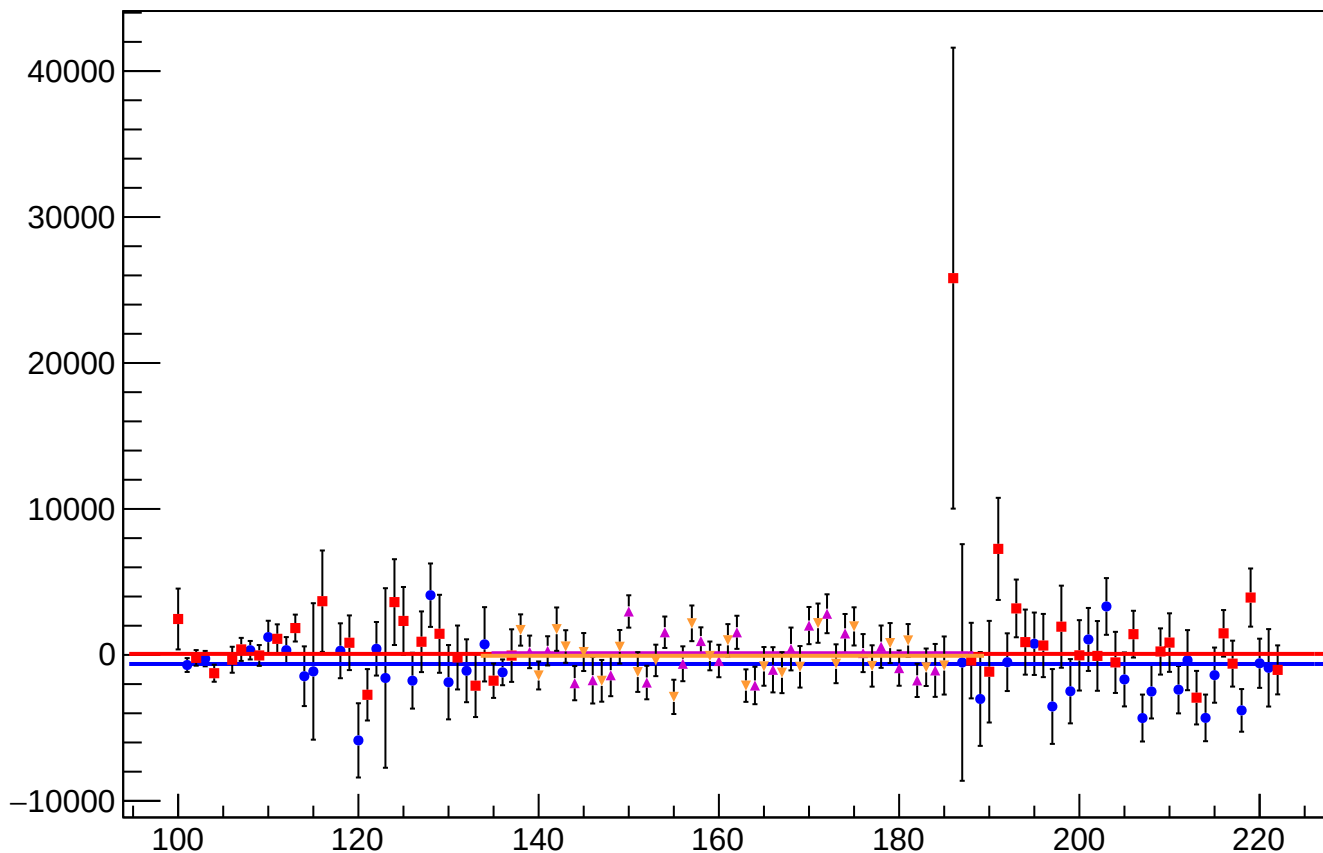
Right: 842.578+/-0.099 χ^2/NDF : 6271274.5/72

In: 916.534+/-0.110 χ^2/NDF : 3414828.9/57

Out: 898.292+/-0.106 χ^2/NDF : 4648308.1/62

All: 907.070+/-0.076 χ^2/NDF : 8077458.3/120

asym_sam6_mean vs Slug, Sign Corrected



Right In: -621.919+/-220.540 χ^2/NDF : 43.4/34

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 69.555+/-218.614 χ^2/NDF : 40.9/37

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

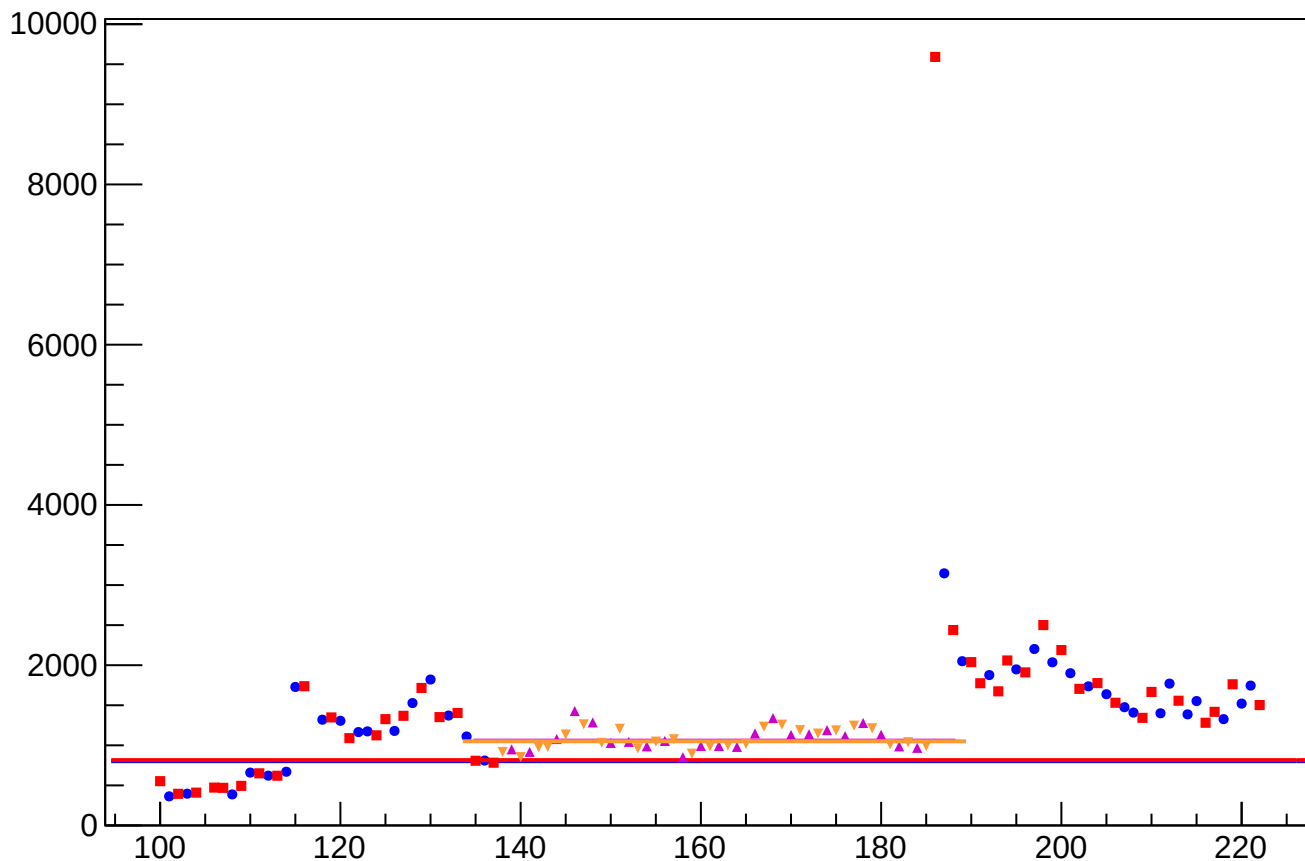
Right: -273.149+/-155.260 χ^2/NDF : 89.3/72

In: -308.271+/-166.923 χ^2/NDF : 83.0/57

Out: 12.594+/-163.559 χ^2/NDF : 72.0/62

All: -144.573+/-116.825 χ^2/NDF : 156.9/120

asym_sam6_rms vs Slug, Sign Corrected



Right In: 802.645+/-0.156 χ^2/NDF : 12040457.0/34

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 815.546+/-0.155 χ^2/NDF : 12511555.3/37

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

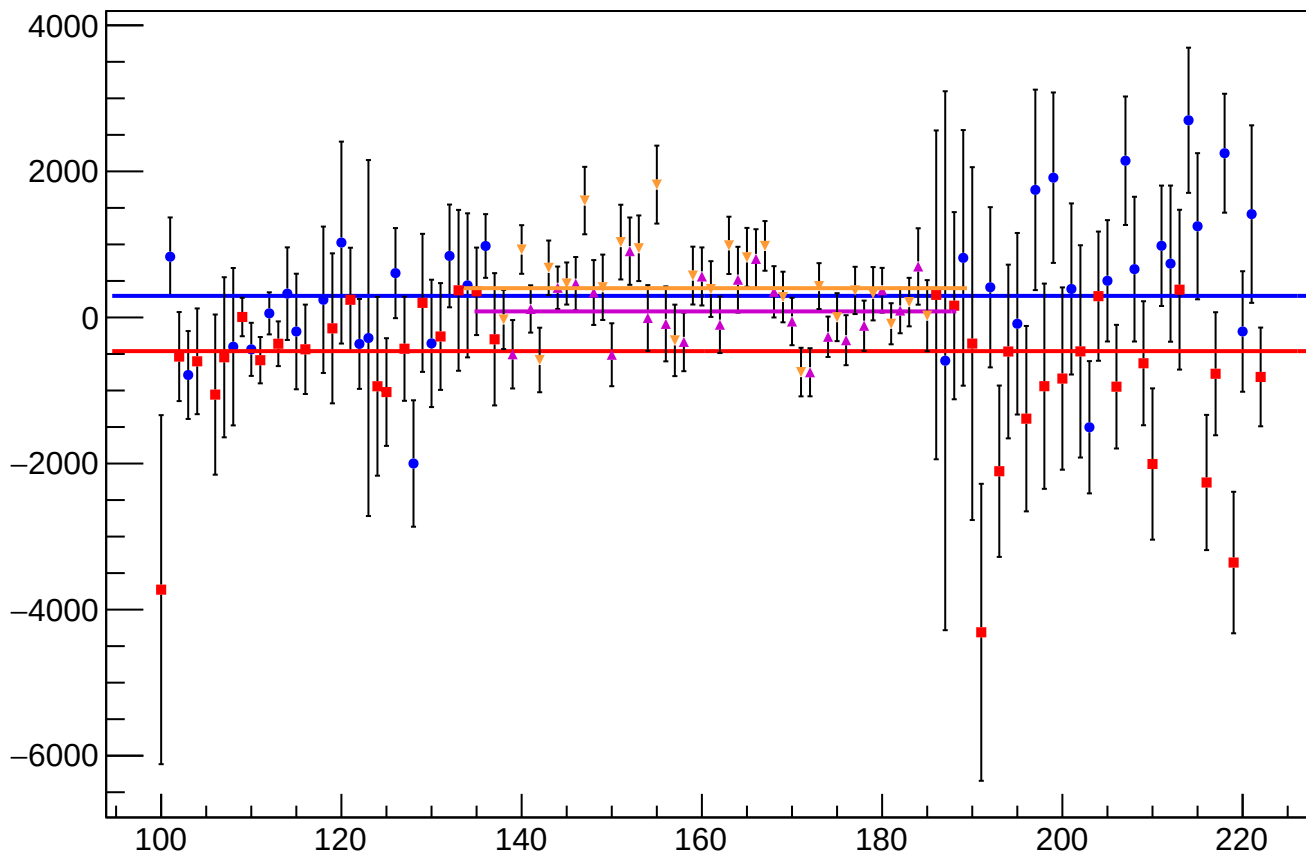
Right: 809.152+/-0.110 χ^2/NDF : 24555464.6/72

In: 911.756+/-0.118 χ^2/NDF : 13715159.5/57

Out: 919.051+/-0.116 χ^2/NDF : 14013036.0/62

All: 915.478+/-0.083 χ^2/NDF : 27730144.6/12

asym_sam7_mean vs Slug, Sign Corrected



Right In: 295.510 $\pm$ 123.480 χ^2 /NDF: 48.6/34

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF:52.1/24

Right Out: -460.996 $\pm$ 114.785 χ^2 /NDF: 34.1/37

Left In: 82.890 $\pm$ 76.904 χ^2 /NDF:29.0/22

Left: 246.889 $\pm$ 53.526 χ^2 /NDF: 89.9/47

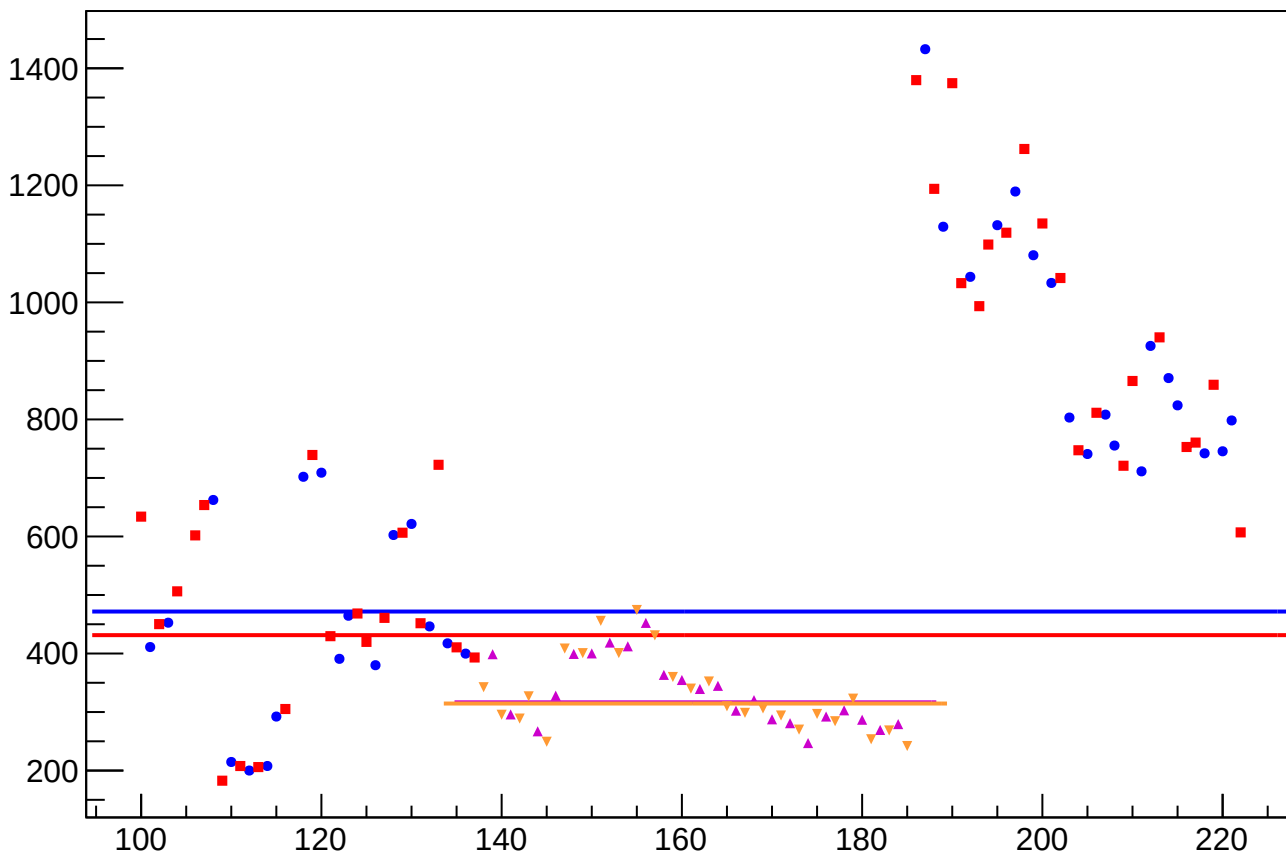
Right: -110.315 $\pm$ 84.071 χ^2 /NDF: 102.9/72

In: 142.313 $\pm$ 65.279 χ^2 /NDF:79.8/57

Out: 145.275 $\pm$ 62.519 χ^2 /NDF:125.9/62

All: 143.858 $\pm$ 45.152 χ^2 /NDF: 205.6/120

asym_sam7_rms vs Slug, Sign Corrected



Right In: 471.735 $\pm$ 0.087 χ^2 /NDF: 9428750.6/34

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 431.391 $\pm$ 0.081 χ^2 /NDF: 12169171.3/37

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

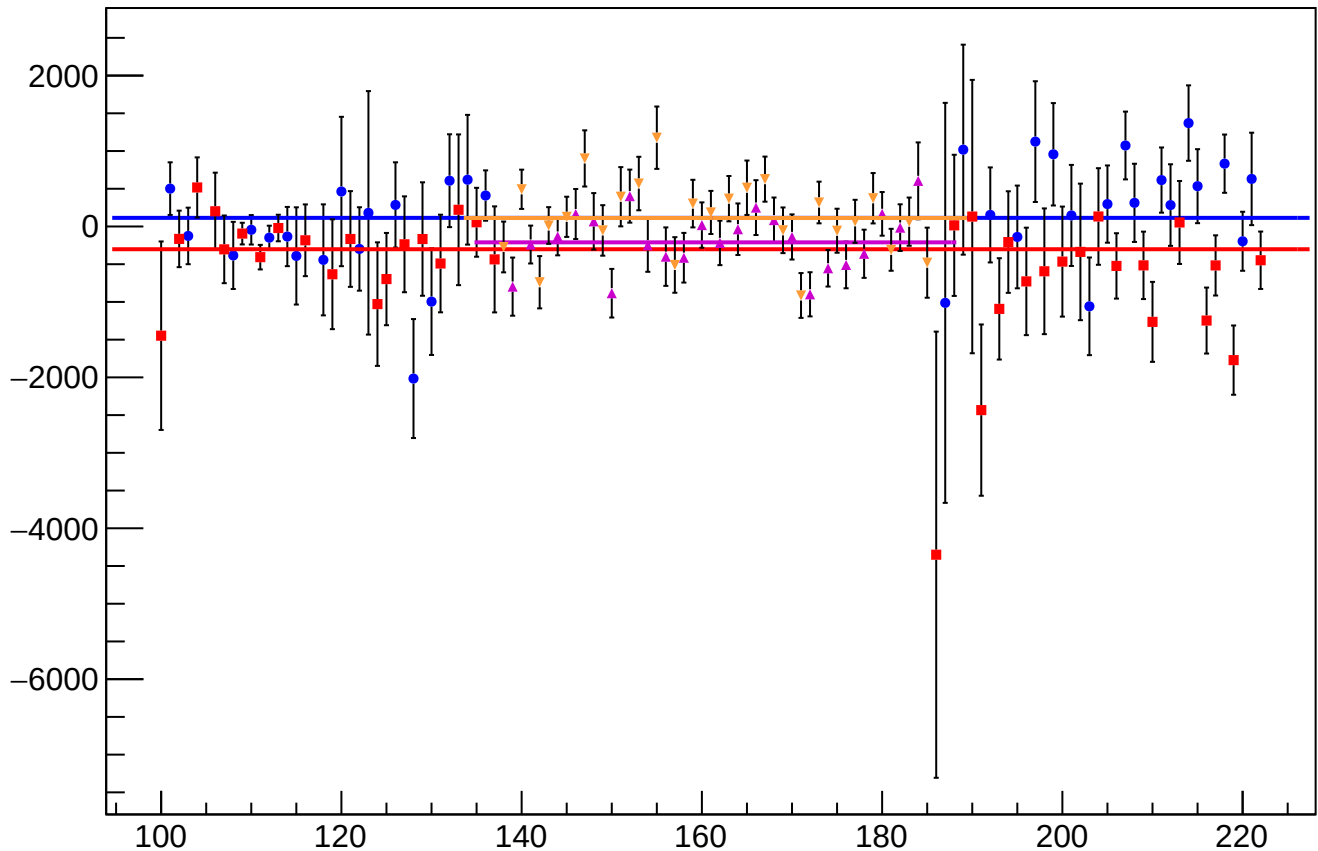
Right: 450.093 $\pm$ 0.059 χ^2 /NDF: 21712447.8/72

In: 359.991 $\pm$ 0.046 χ^2 /NDF: 12622831.3/57

Out: 349.203 $\pm$ 0.044 χ^2 /NDF: 14739463.2/62

All: 354.364 $\pm$ 0.032 χ^2 /NDF: 27390780.9/12

asym_sam8_mean vs Slug, Sign Corrected



Right In: 114.310 ± 74.410 $\chi^2/\text{NDF}: 45.5/34$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -301.602 ± 66.683 $\chi^2/\text{NDF}: 41.3/37$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

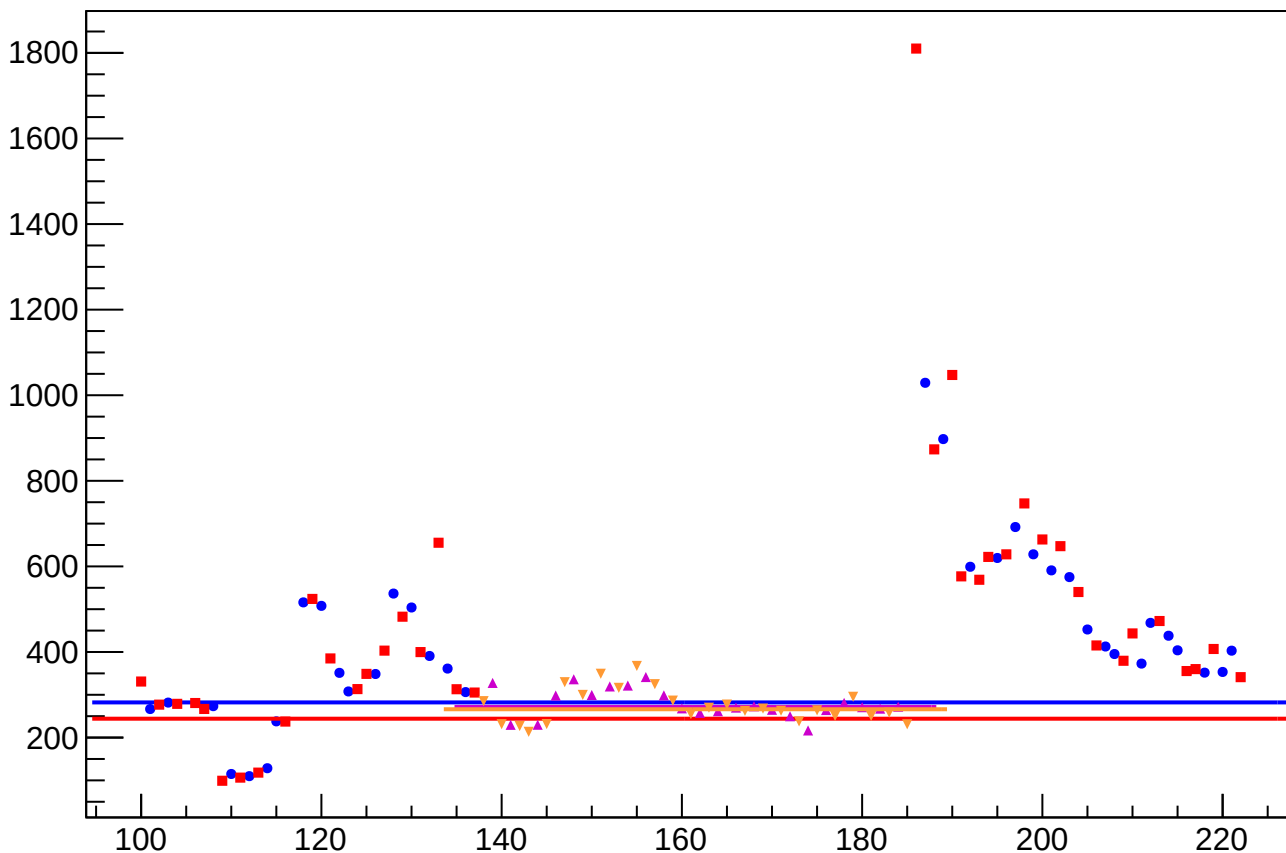
Right: -116.356 ± 49.660 $\chi^2/\text{NDF}: 104.1/72$

In: -68.645 ± 49.170 $\chi^2/\text{NDF}: 85.4/57$

Out: -81.766 ± 45.657 $\chi^2/\text{NDF}: 110.9/62$

All: -75.691 ± 33.457 $\chi^2/\text{NDF}: 196.3/120$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 282.170+/-0.053 χ^2/NDF : 9776680.7/34

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 244.108+/-0.047 χ^2/NDF : 1358952.7/37

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

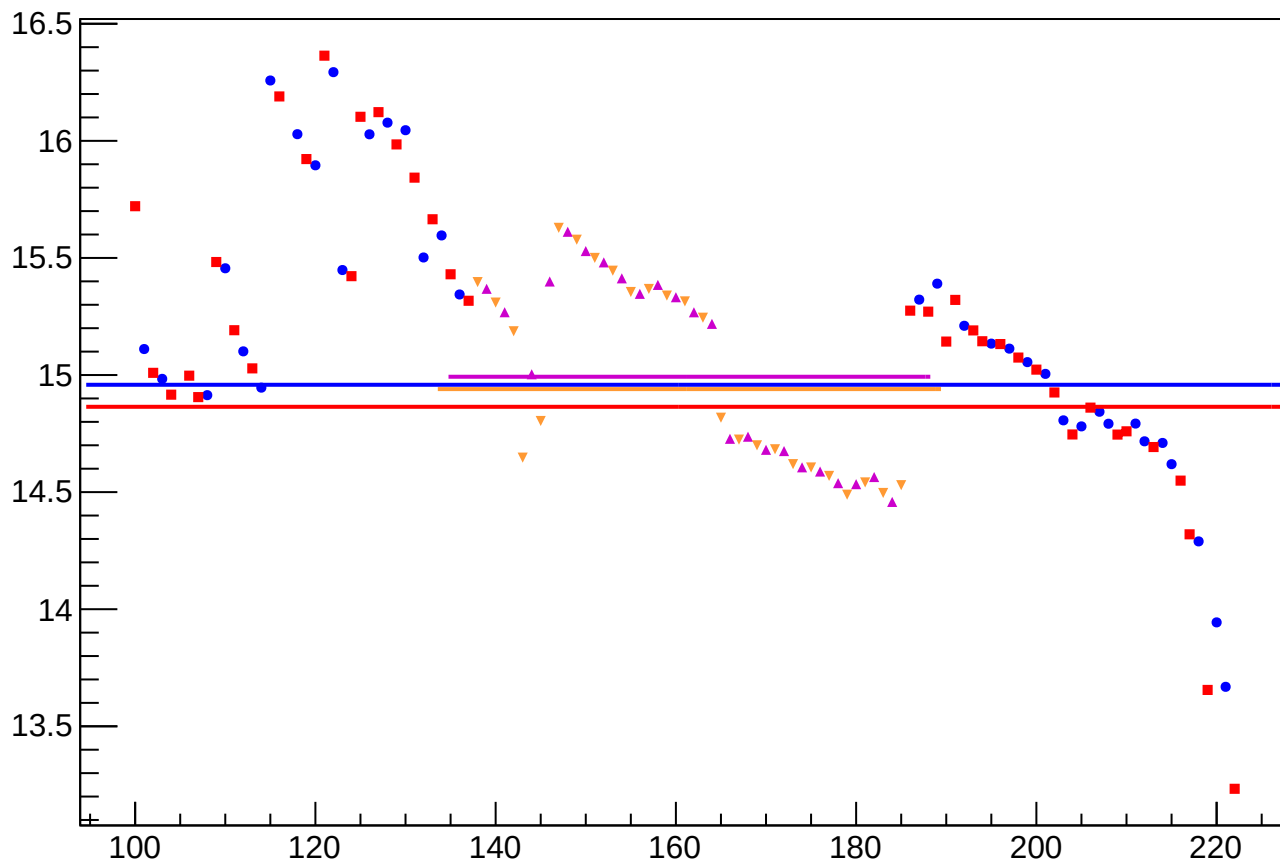
Right: 261.061+/-0.035 χ^2/NDF : 23656447.0/72

In: 276.111+/-0.035 χ^2/NDF : 10322094.9/57

Out: 255.847+/-0.032 χ^2/NDF : 14355864.3/62

All: 265.229+/-0.024 χ^2/NDF : 24860365.9/12

yield_sam1_mean vs Slug, Sign Corrected



Right In: 14.958+/-0.000 χ^2/NDF : 42583274640.5/34

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 14.864+/-0.000 χ^2/NDF : 65207781710.8/37

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

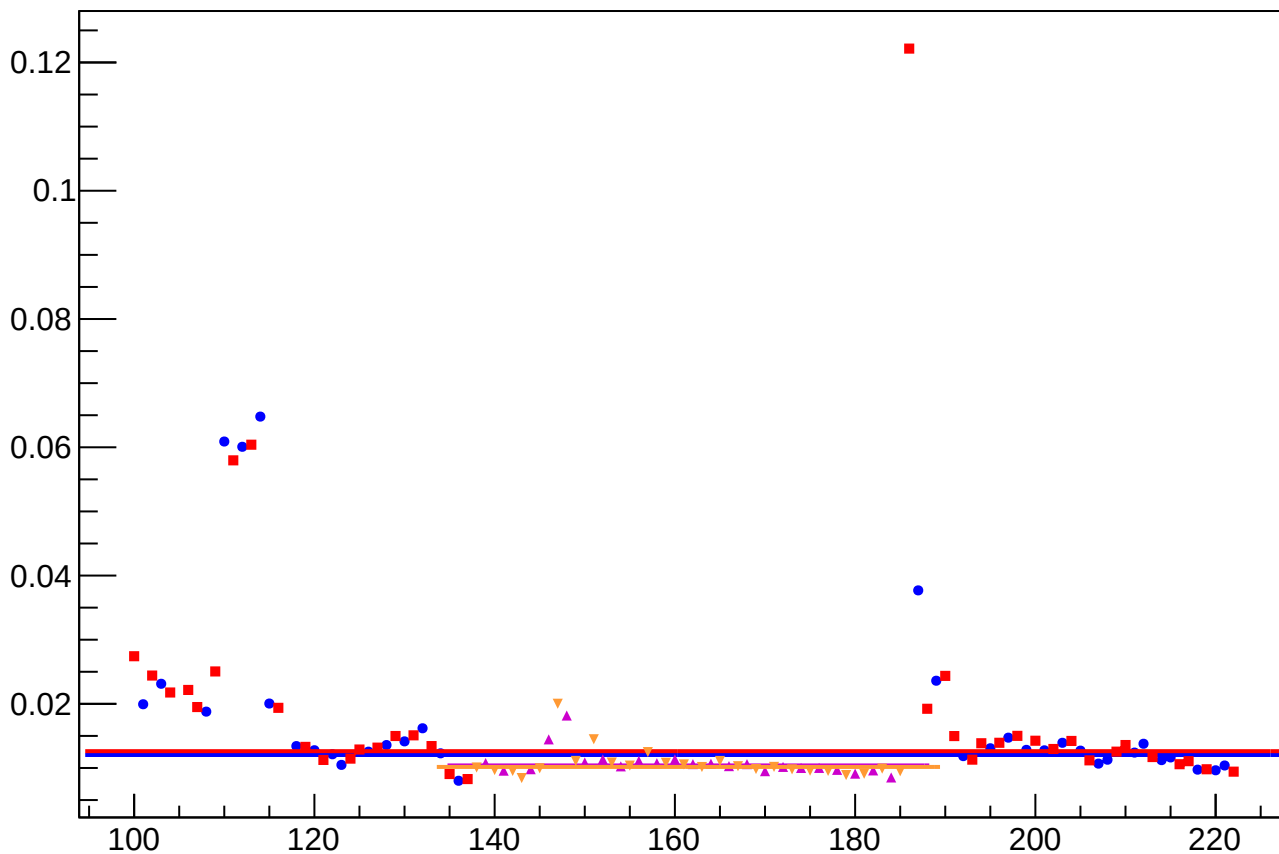
Right: 14.913+/-0.000 χ^2/NDF : 108293229770.1/72

In: 14.978+/-0.000 χ^2/NDF : 64684648124.3/57

Out: 14.910+/-0.000 χ^2/NDF : 89785437340.6/62

All: 14.943+/-0.000 χ^2/NDF : 155096638091.1

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2857344.1/34

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.013+/-0.000 χ^2/NDF : 3645282.6/37

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

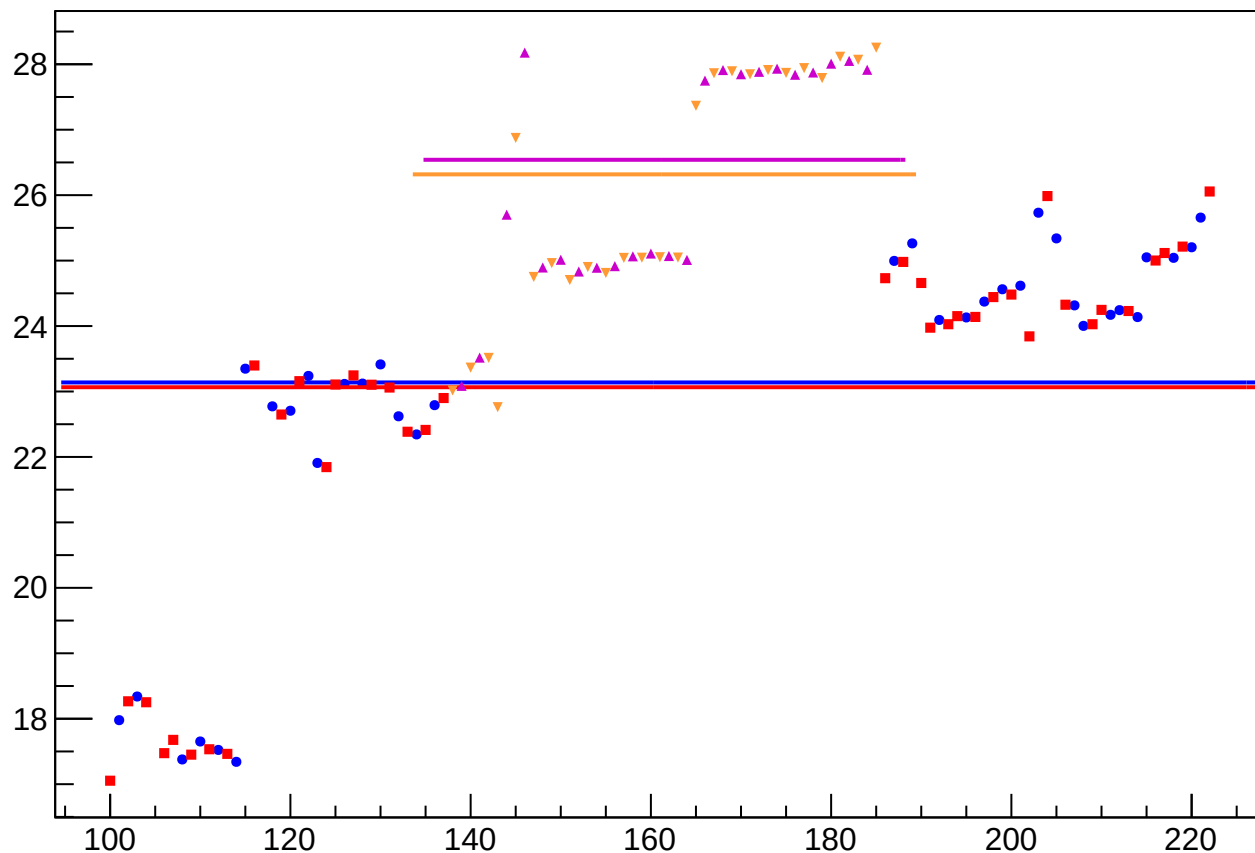
Right: 0.012+/-0.000 χ^2/NDF : 6542675.2/72

In: 0.011+/-0.000 χ^2/NDF : 3754889.7/57

Out: 0.011+/-0.000 χ^2/NDF : 5162706.3/62

All: 0.011+/-0.000 χ^2/NDF : 8917793.6/120

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.138+/-0.000

χ^2/NDF : 1634061777.8/34

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 23.103+/-0.000

χ^2/NDF : 3629250385.4/72

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

In: 25.627+/-0.000

χ^2/NDF : 8969947949.4/57

Right Out: 23.065+/-0.000

χ^2/NDF : 1993963050.2/37

Out: 25.541+/-0.000

χ^2/NDF : 10272188560.5/62

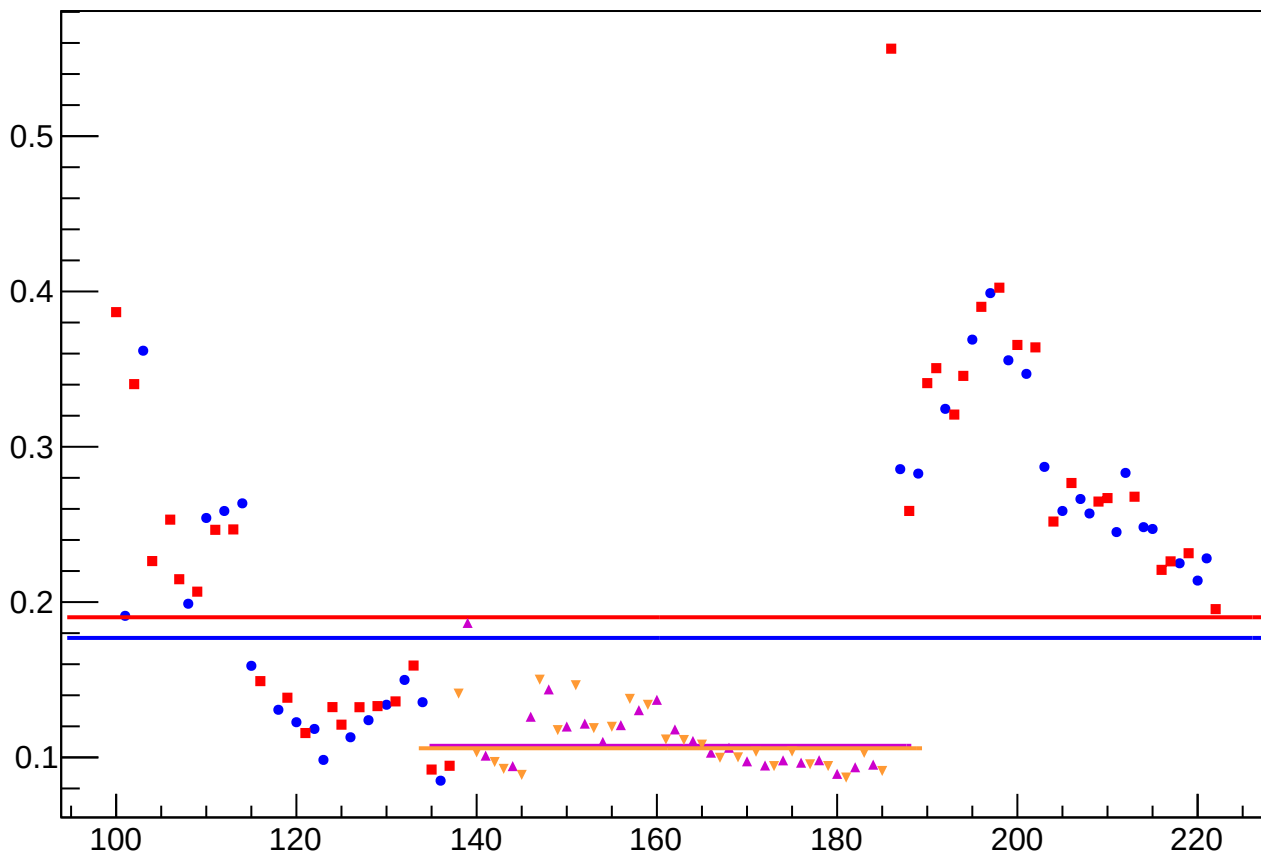
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.583+/-0.000

χ^2/NDF : 19248793662.3

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.177 ± 0.000 χ^2/NDF : 6603417.7/34

Left Out: 0.106 ± 0.000 χ^2/NDF : 732883.8/24

Right Out: 0.190 ± 0.000 χ^2/NDF : 6168830.4/37

Left In: 0.107 ± 0.000 χ^2/NDF : 771132.0/22

Left: 0.107 ± 0.000 χ^2/NDF : 1507414.2/47

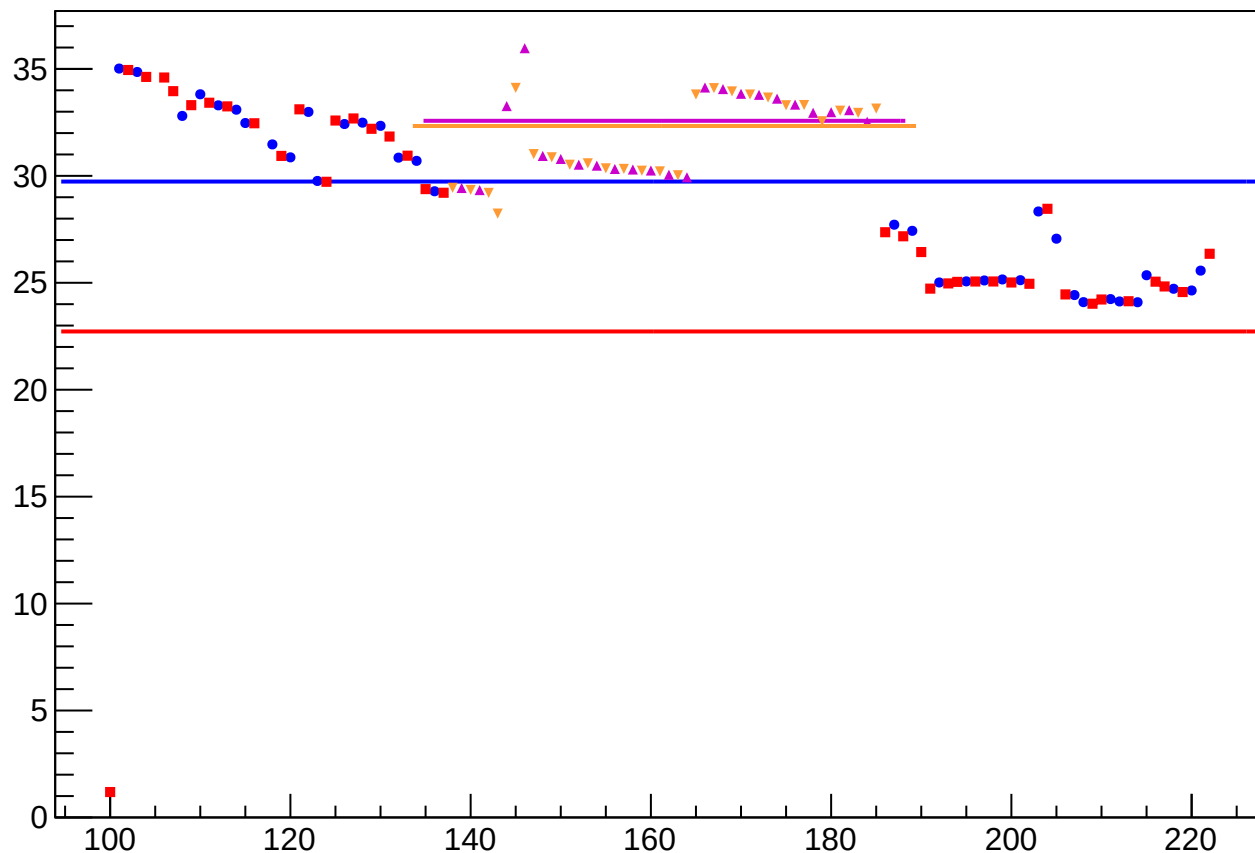
Right: 0.183 ± 0.000 χ^2/NDF : 12853388.4/72

In: 0.126 ± 0.000 χ^2/NDF : 10731438.1/57

Out: 0.126 ± 0.000 χ^2/NDF : 11694127.2/62

All: 0.126 ± 0.000 χ^2/NDF : 22425582.3/120

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.733+/-0.000 χ^2/NDF : 12524801306.0/34

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.724+/-0.000 χ^2/NDF : 233205491088.5/37

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

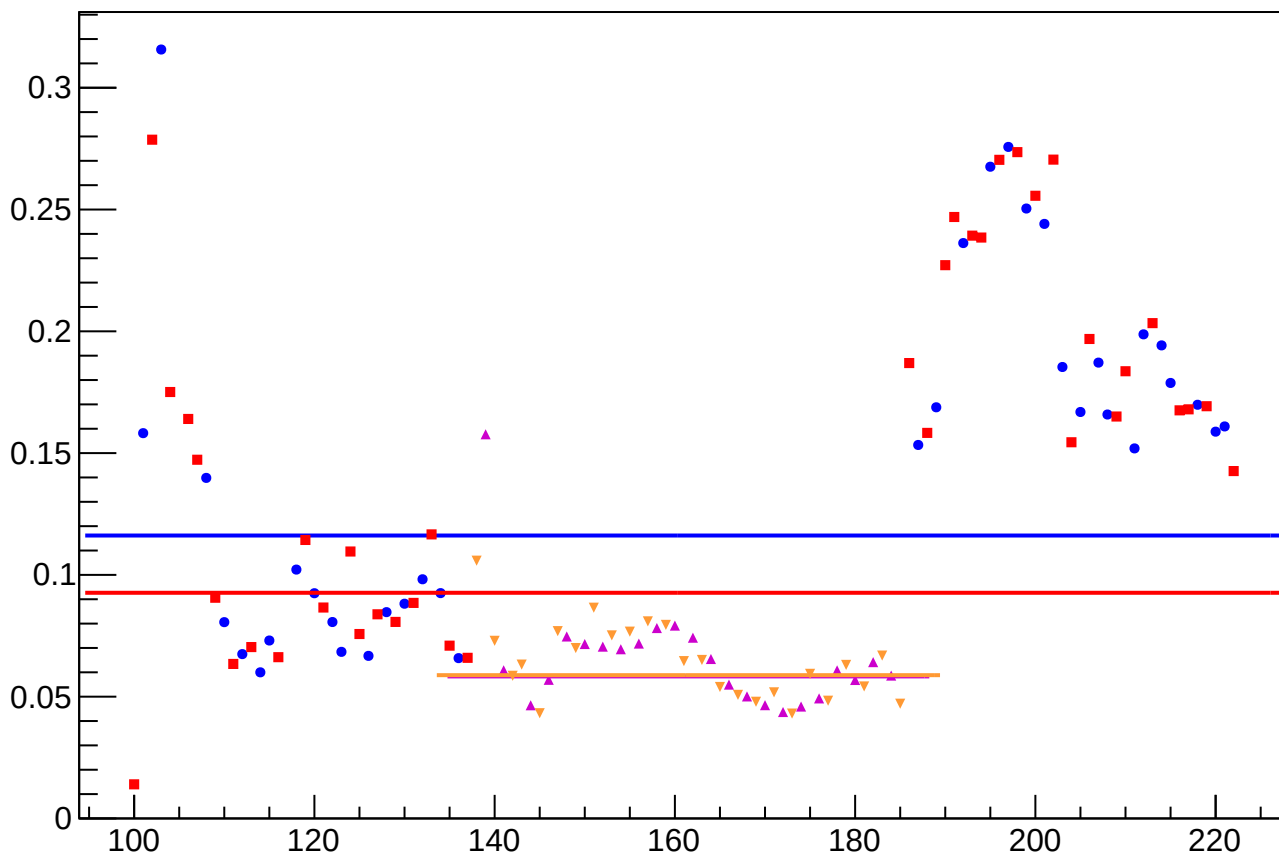
Right: 25.728+/-0.000 χ^2/NDF : 275505179178.8/72

In: 31.969+/-0.000 χ^2/NDF : 31057814549.0/57

Out: 29.866+/-0.000 χ^2/NDF : 343073829730.7/62

All: 30.864+/-0.000 χ^2/NDF : 385705555148.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.116 $\pm$ 0.000 χ^2 /NDF: 7037509.6/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 13029572.4/37

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

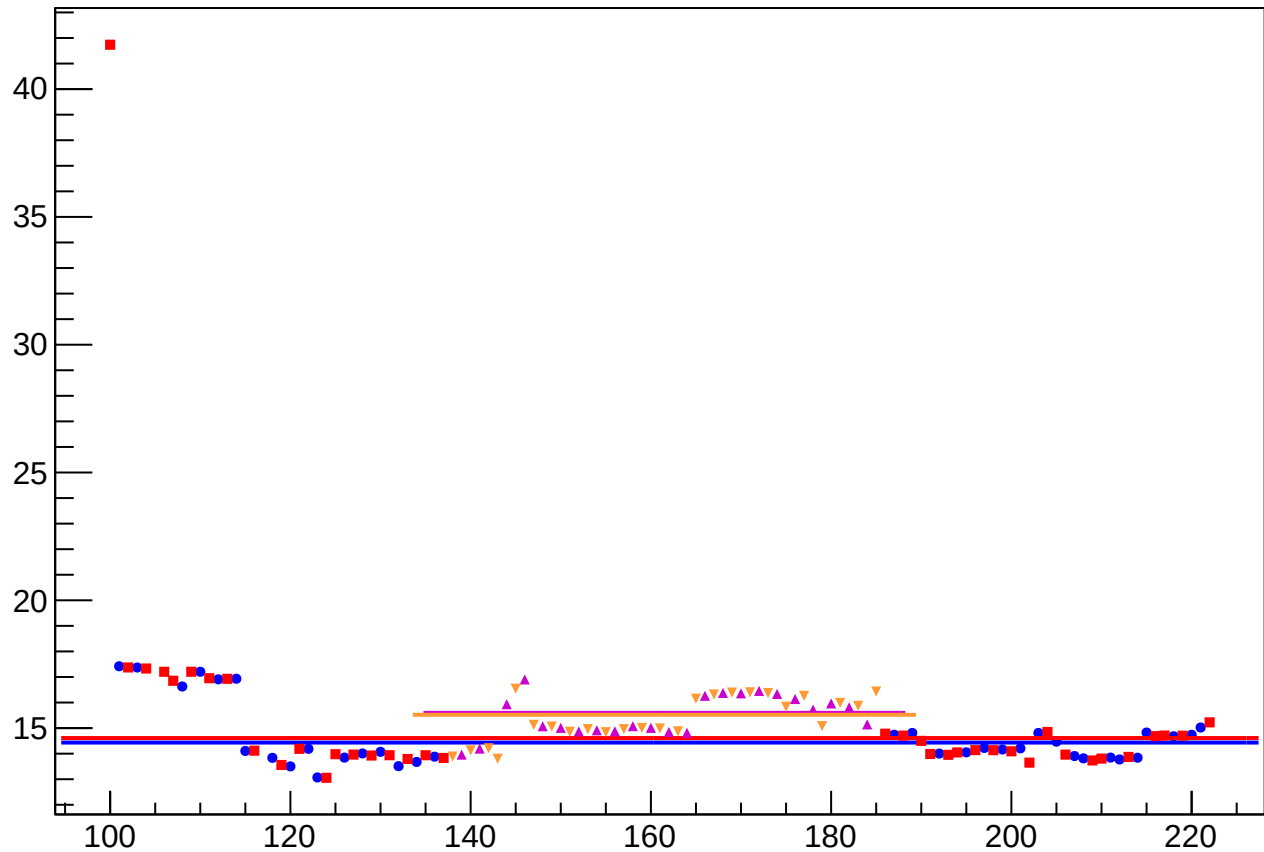
Right: 0.103 $\pm$ 0.000 χ^2 /NDF: 20736868.0/72

In: 0.071 $\pm$ 0.000 χ^2 /NDF:14149378.3/57

Out: 0.068 $\pm$ 0.000 χ^2 /NDF:16837674.7/62

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 31038121.3/120

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.435+/-0.000 χ^2/NDF : 1581777447.8/34

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.612+/-0.000 χ^2/NDF : 2053467089.9/37

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

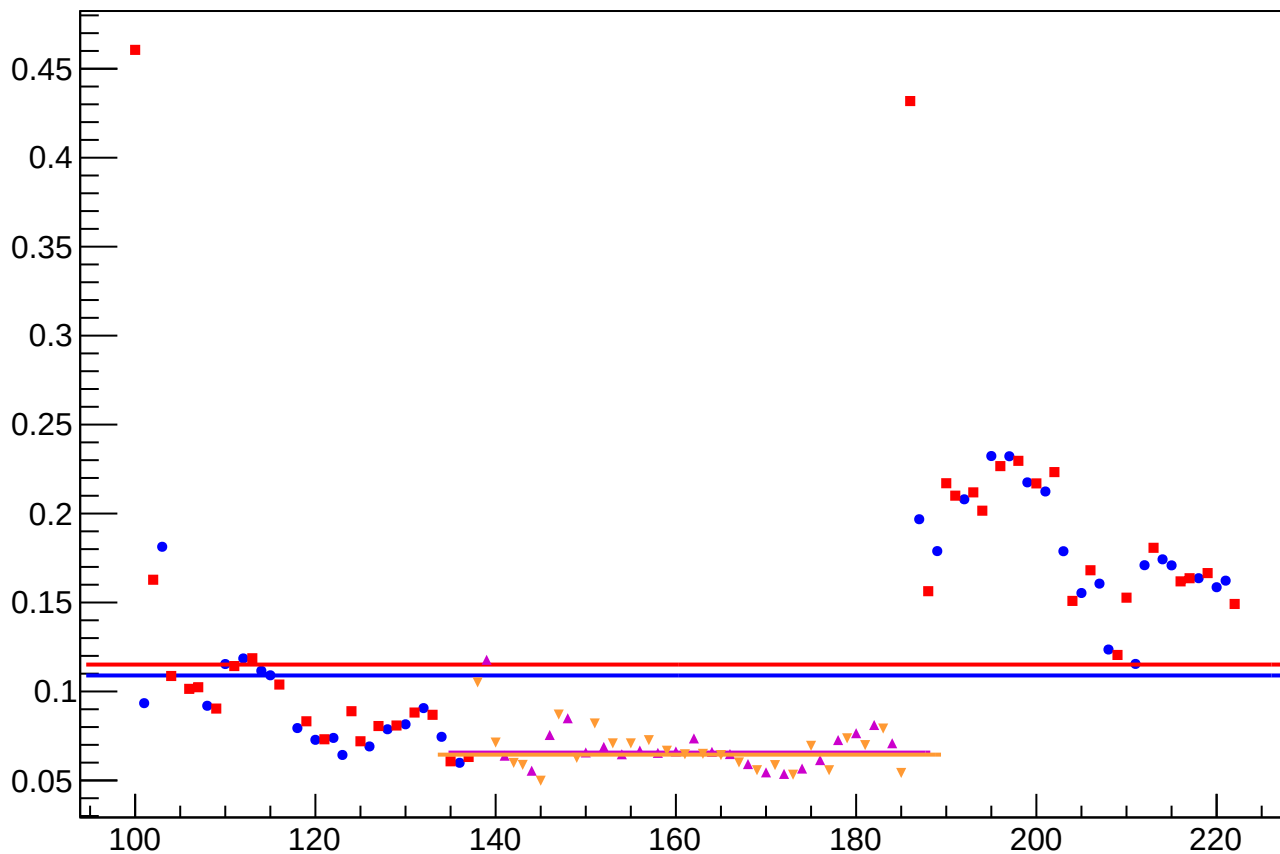
Right: 14.521+/-0.000 χ^2/NDF : 3654958780.4/72

In: 15.279+/-0.000 χ^2/NDF : 4752901461.4/57

Out: 15.298+/-0.000 χ^2/NDF : 5406540711.2/62

All: 15.289+/-0.000 χ^2/NDF : 10160283758.3

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.109+/-0.000 χ^2/NDF : 6003282.8/34

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.115+/-0.000 χ^2/NDF : 5865857.3/37

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

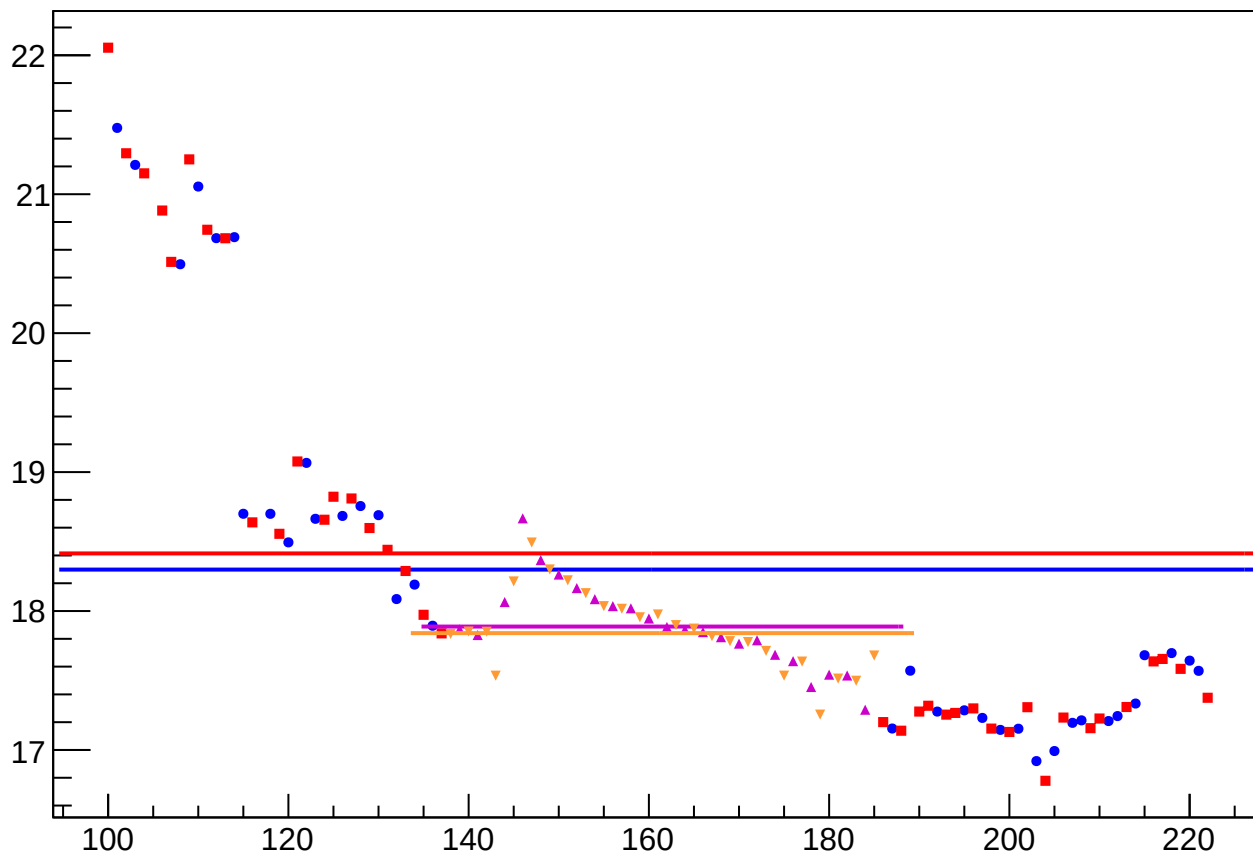
Right: 0.112+/-0.000 χ^2/NDF : 11916210.4/72

In: 0.077+/-0.000 χ^2/NDF : 10239243.4/57

Out: 0.077+/-0.000 χ^2/NDF : 11351263.3/62

All: 0.077+/-0.000 χ^2/NDF : 21591838.2/120

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.298+/-0.000

χ^2/NDF : 32983372316.7/34

Left: 17.864+/-0.000

χ^2/NDF : 2506375288.6/47

Right: 18.356+/-0.000

χ^2/NDF : 68689739405.3/72

Left Out: 17.841+/-0.000

χ^2/NDF : 1283287989.7/24

In: 18.073+/-0.000

χ^2/NDF : 35505248251.1/57

Right Out: 18.415+/-0.000

χ^2/NDF : 35609843464.9/37

Out: 18.090+/-0.000

χ^2/NDF : 39550625066.9/62

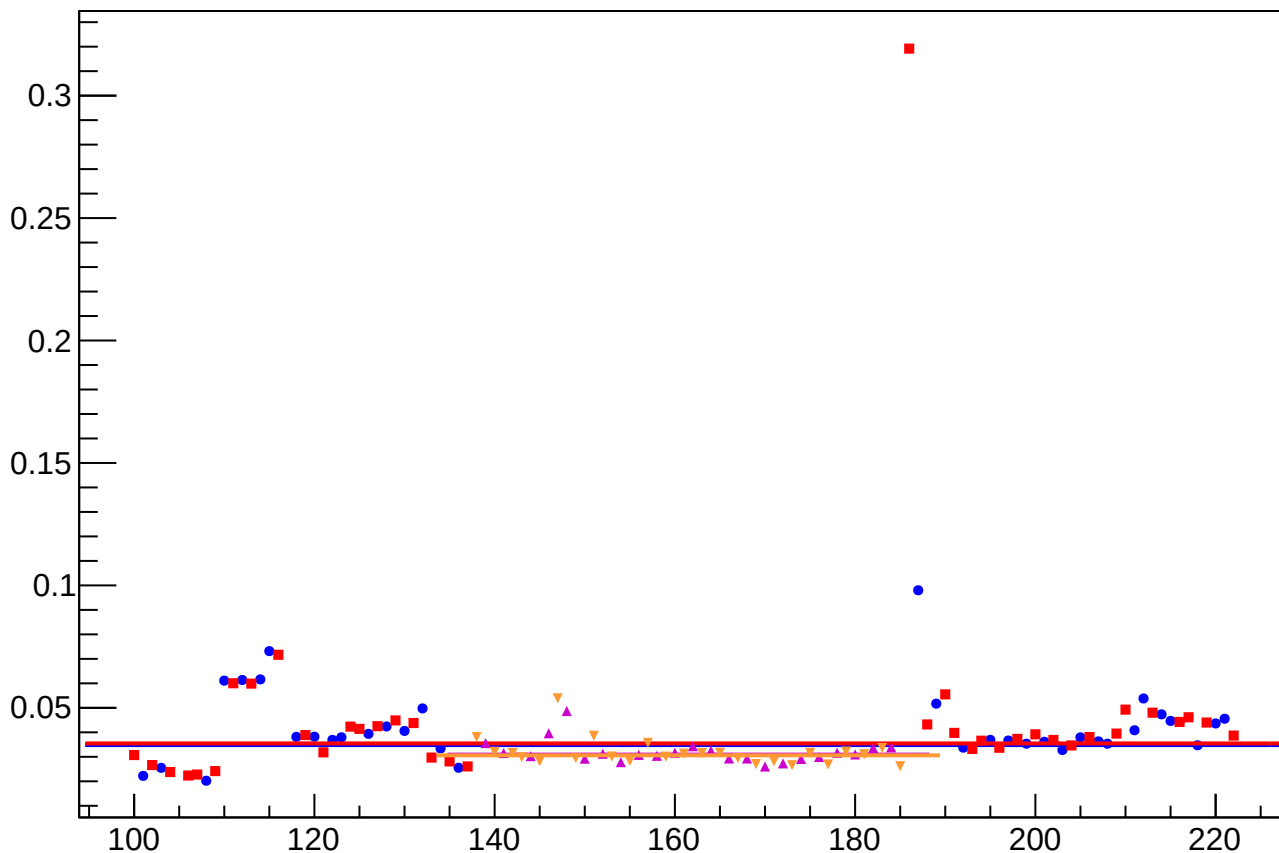
Left In: 17.888+/-0.000

χ^2/NDF : 1203002311.3/22

All: 18.082+/-0.000

χ^2/NDF : 75060037433.3

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.000 χ^2 /NDF: 2302723.1/34

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2658347.0/37

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

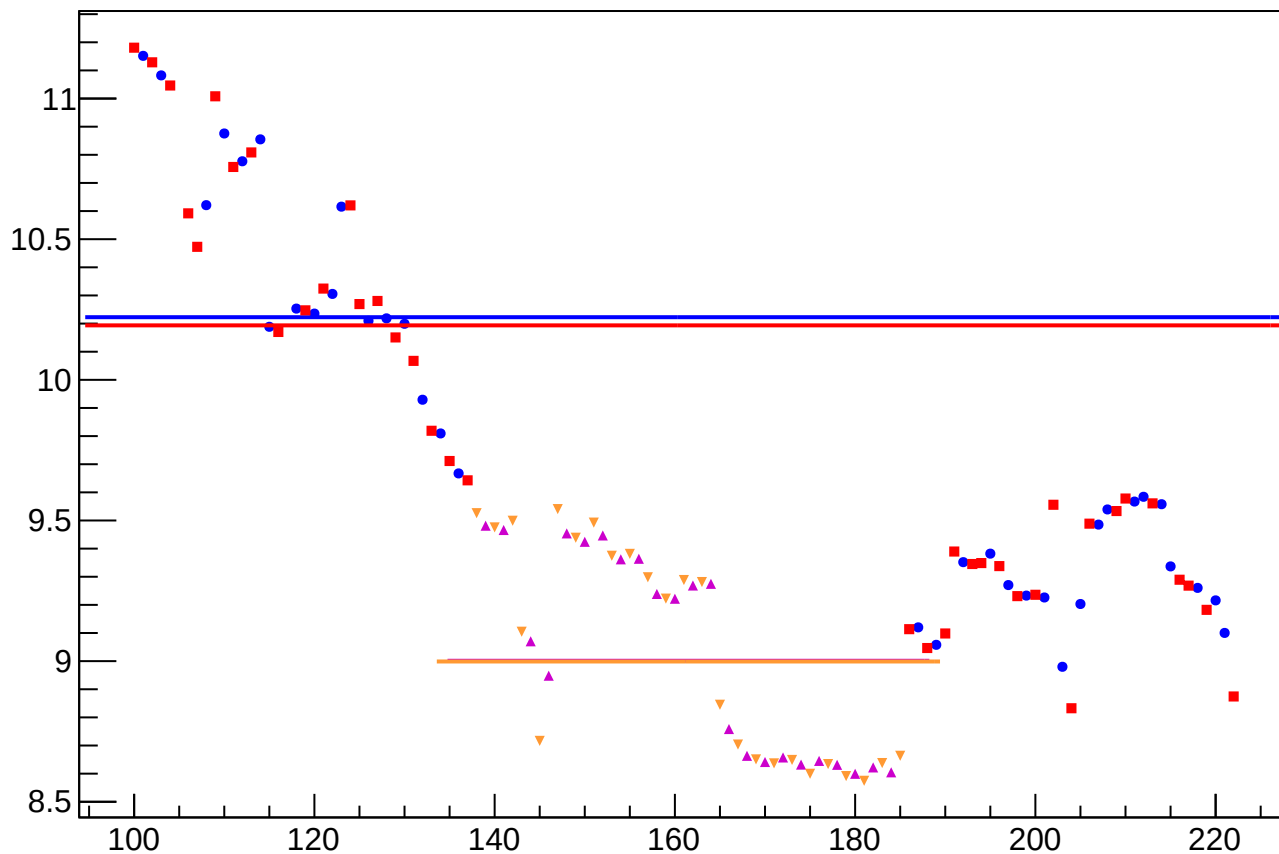
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 4967705.3/72

In: 0.033 $\pm$ 0.000 χ^2 /NDF:2993752.5/57

Out: 0.033 $\pm$ 0.000 χ^2 /NDF:3631424.5/62

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 6625283.1/120

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.223+/-0.000 χ^2/NDF : 19484916795.6/34

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.194+/-0.000 χ^2/NDF : 19038219634.1/37

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

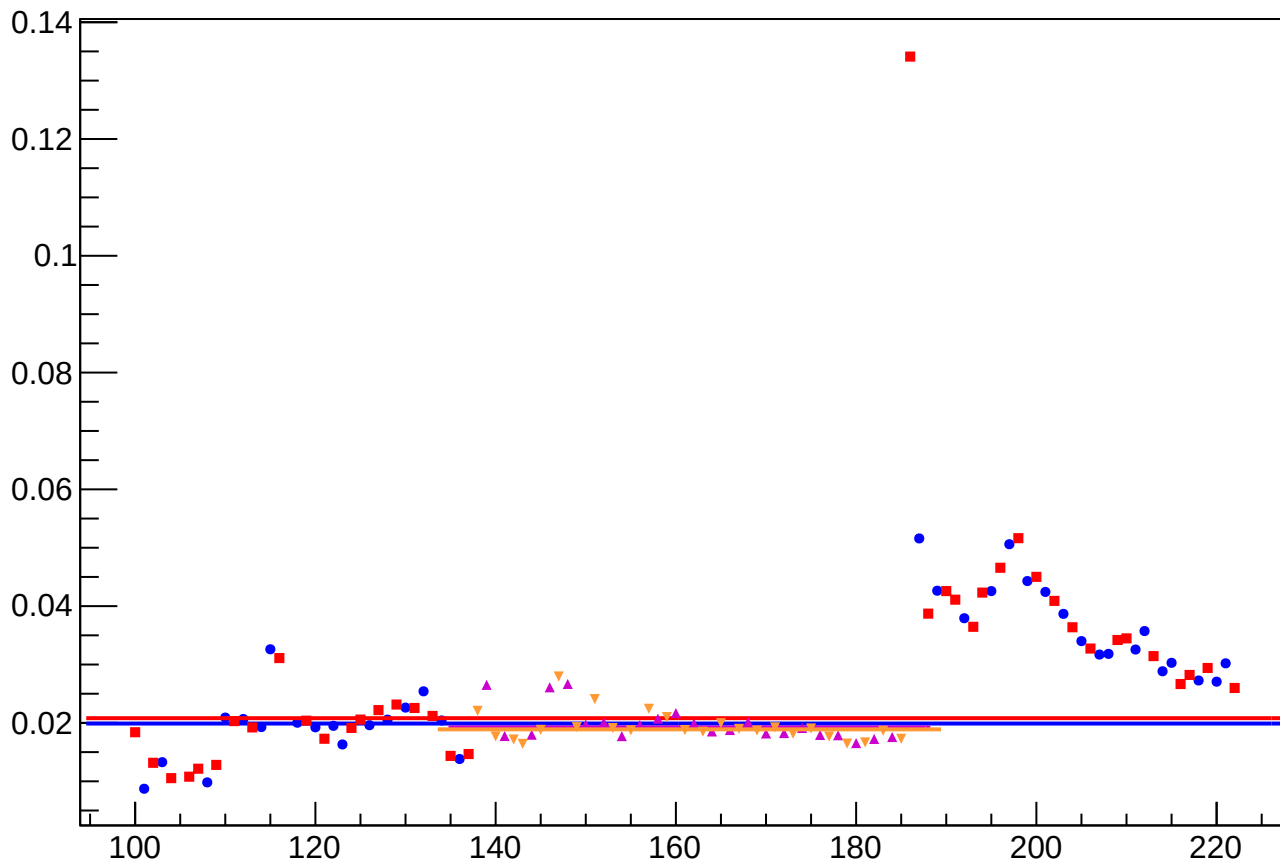
Right: 10.208+/-0.000 χ^2/NDF : 38538381256.2/72

In: 9.564+/-0.000 χ^2/NDF : 54211474621.1/57

Out: 9.514+/-0.000 χ^2/NDF : 54378946725.7/62

All: 9.539+/-0.000 χ^2/NDF : 108688982861.4

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7873653.8/34

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 7608395.7/37

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

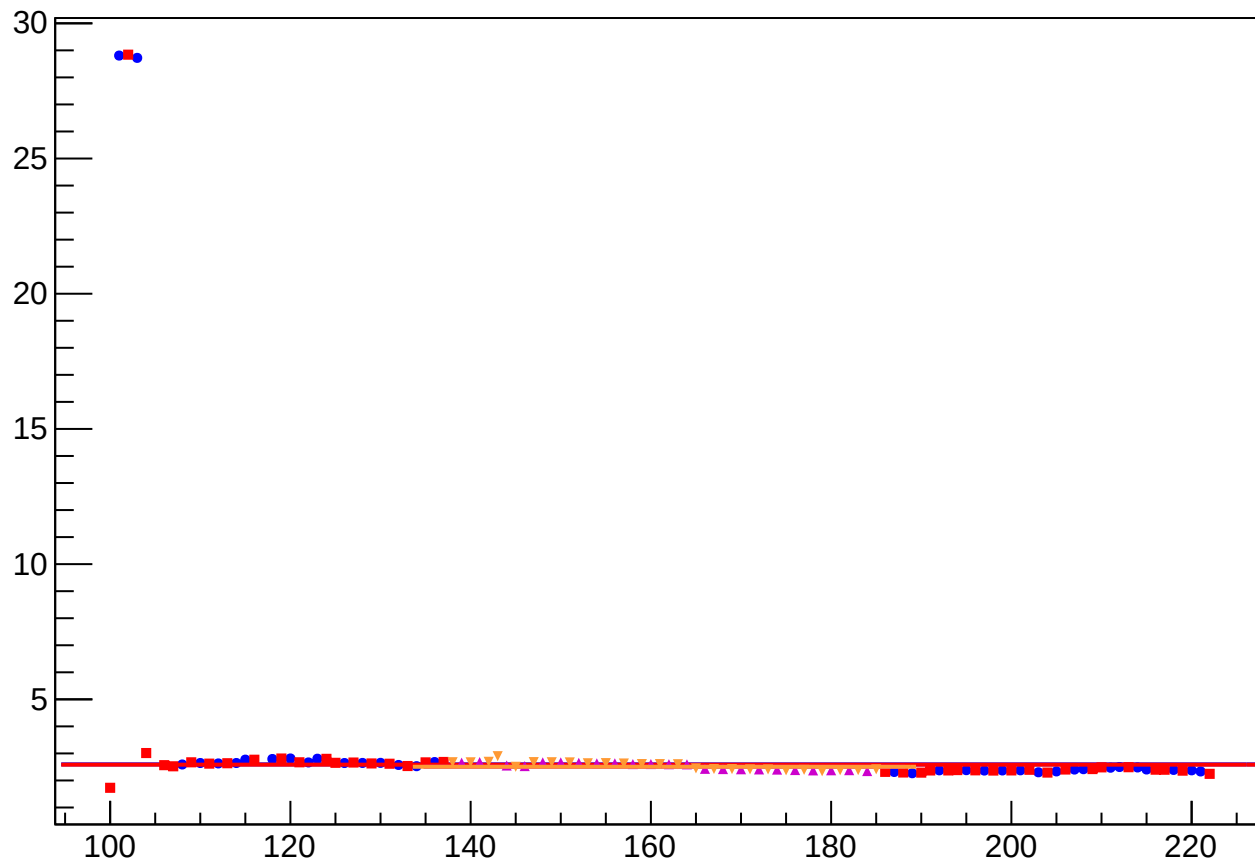
Right: 0.020+/-0.000 χ^2/NDF : 15512325.2/72

In: 0.020+/-0.000 χ^2/NDF : 8373123.6/57

Out: 0.020+/-0.000 χ^2/NDF : 8184857.8/62

All: 0.020+/-0.000 χ^2/NDF : 16560893.1/120

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.595 $\pm$ 0.000 χ^2 /NDF: 189880776035.2/34

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.585 $\pm$ 0.000 χ^2 /NDF: 105119840524.3/37

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

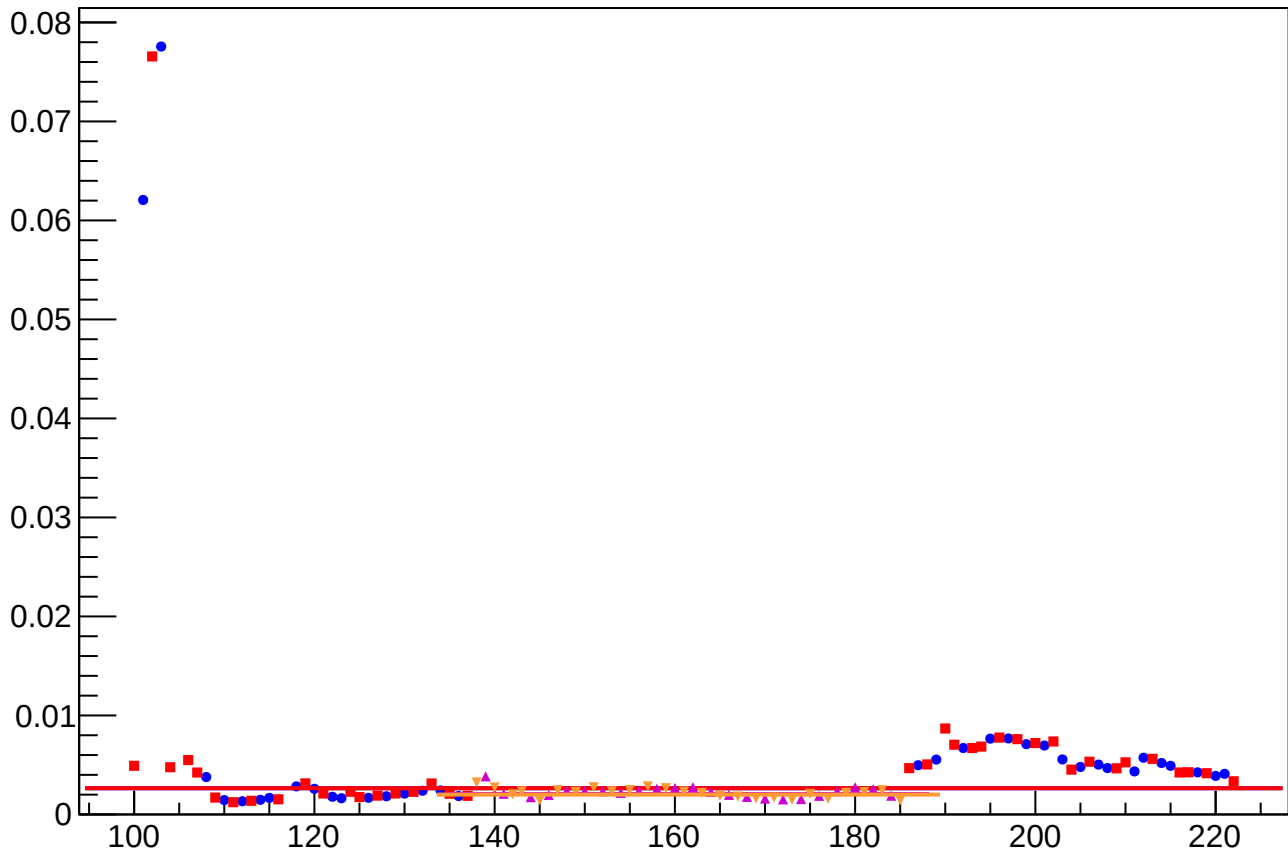
Right: 2.590 $\pm$ 0.000 χ^2 /NDF: 295105701457.9/72

In: 2.537 $\pm$ 0.000 χ^2 /NDF: 242167433453.2/57

Out: 2.533 $\pm$ 0.000 χ^2 /NDF: 176946297731.7/62

All: 2.535 $\pm$ 0.000 χ^2 /NDF: 419152007643.2

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 11088069.6/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 11058815.3/37

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

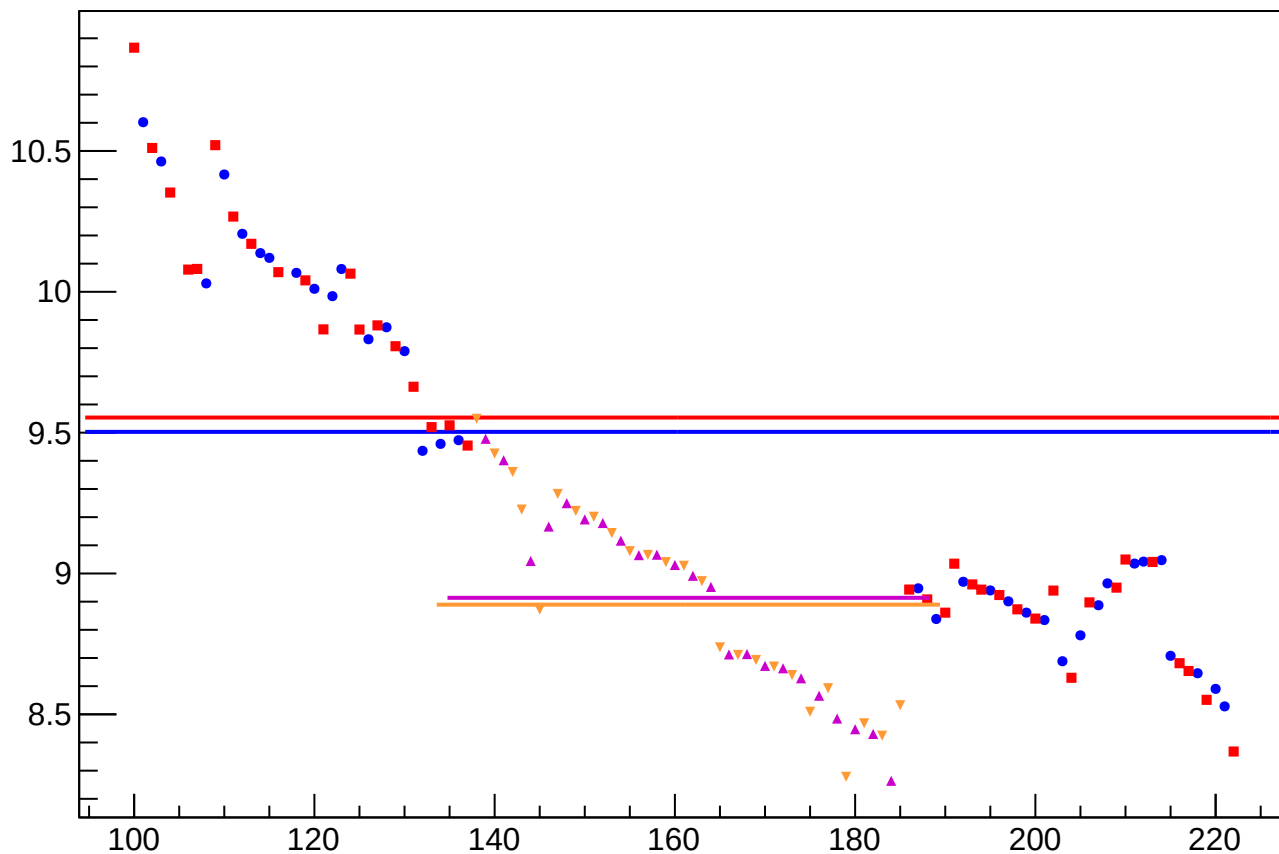
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 22146914.5/72

In: 0.002 $\pm$ 0.000 χ^2 /NDF:13192857.9/57

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:13558968.2/62

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 26760306.0/120

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.503 $\pm$ 0.000 χ^2 /NDF: 127749084409.0/34

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 9.554 $\pm$ 0.000 χ^2 /NDF: 155879155935.6/37

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF: 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

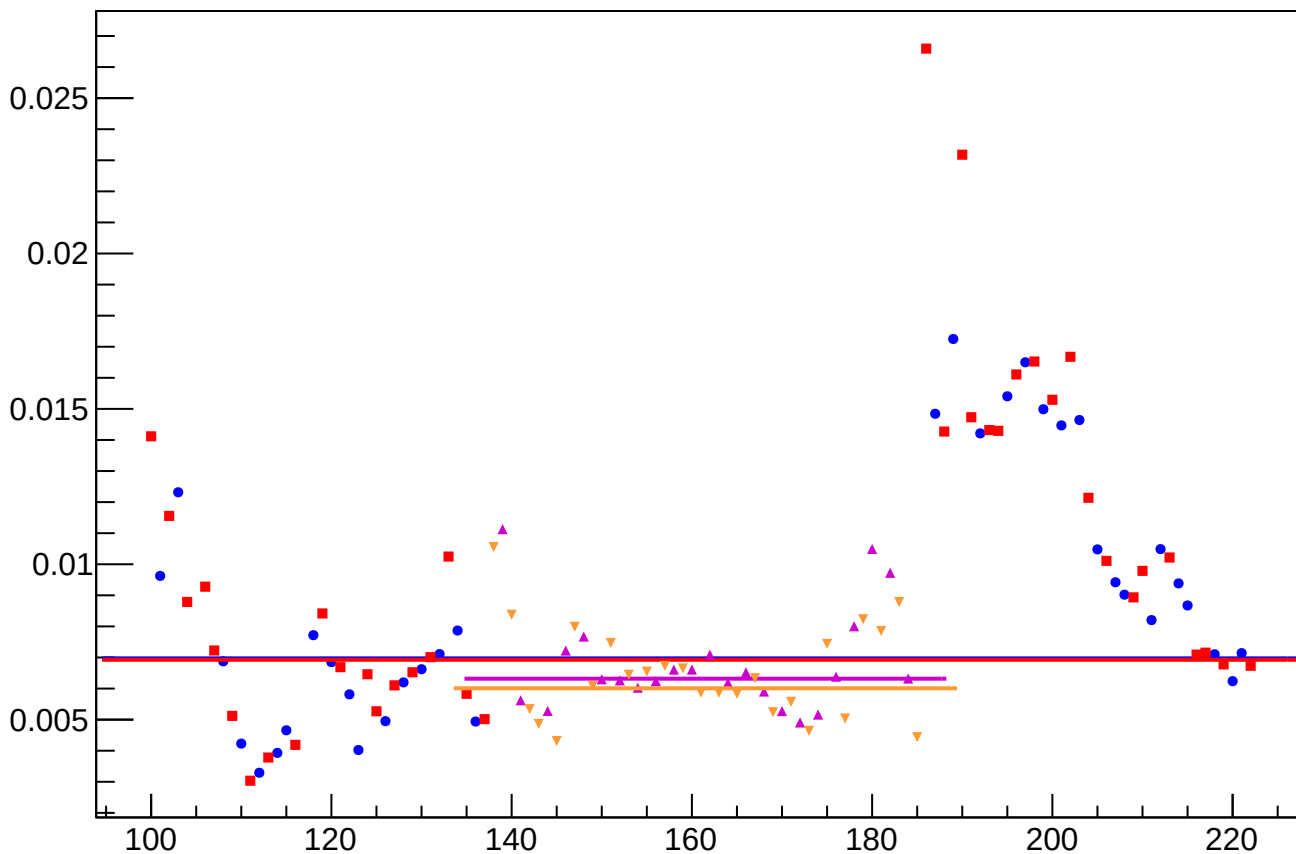
Right: 9.529 $\pm$ 0.000 χ^2 /NDF: 284028190648.4/72

In: 9.189 $\pm$ 0.000 χ^2 /NDF: 212775340546.9/57

Out: 9.180 $\pm$ 0.000 χ^2 /NDF: 268441253082.4/62

All: 9.185 $\pm$ 0.000 χ^2 /NDF: 481242981666.2

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 6117615.7/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7555221.3/37

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

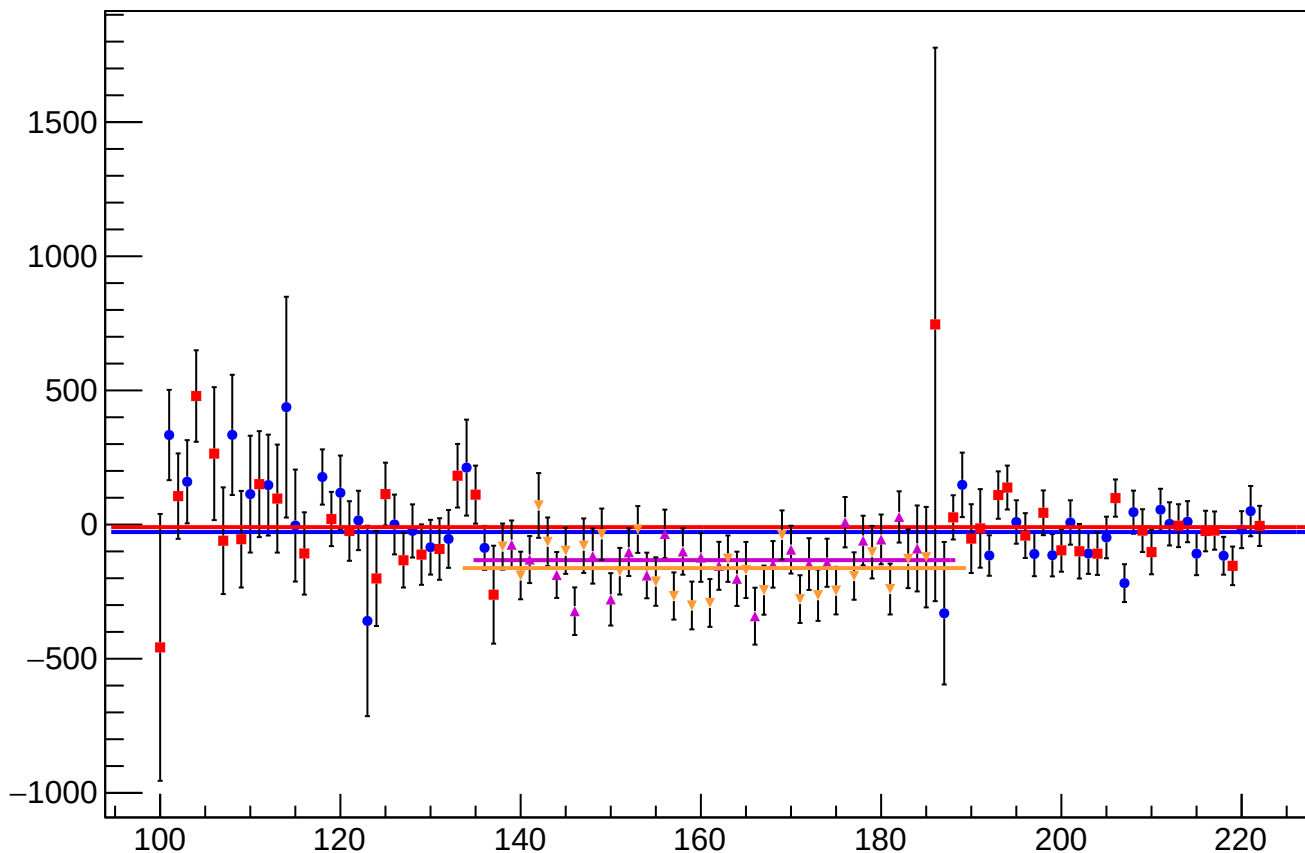
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13673479.5/72

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7343864.8/57

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:9164595.2/62

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 16539433.7/120

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -27.879 ± 16.472 $\chi^2/\text{NDF}: 41.6/34$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -9.552 ± 16.639 $\chi^2/\text{NDF}: 41.0/37$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

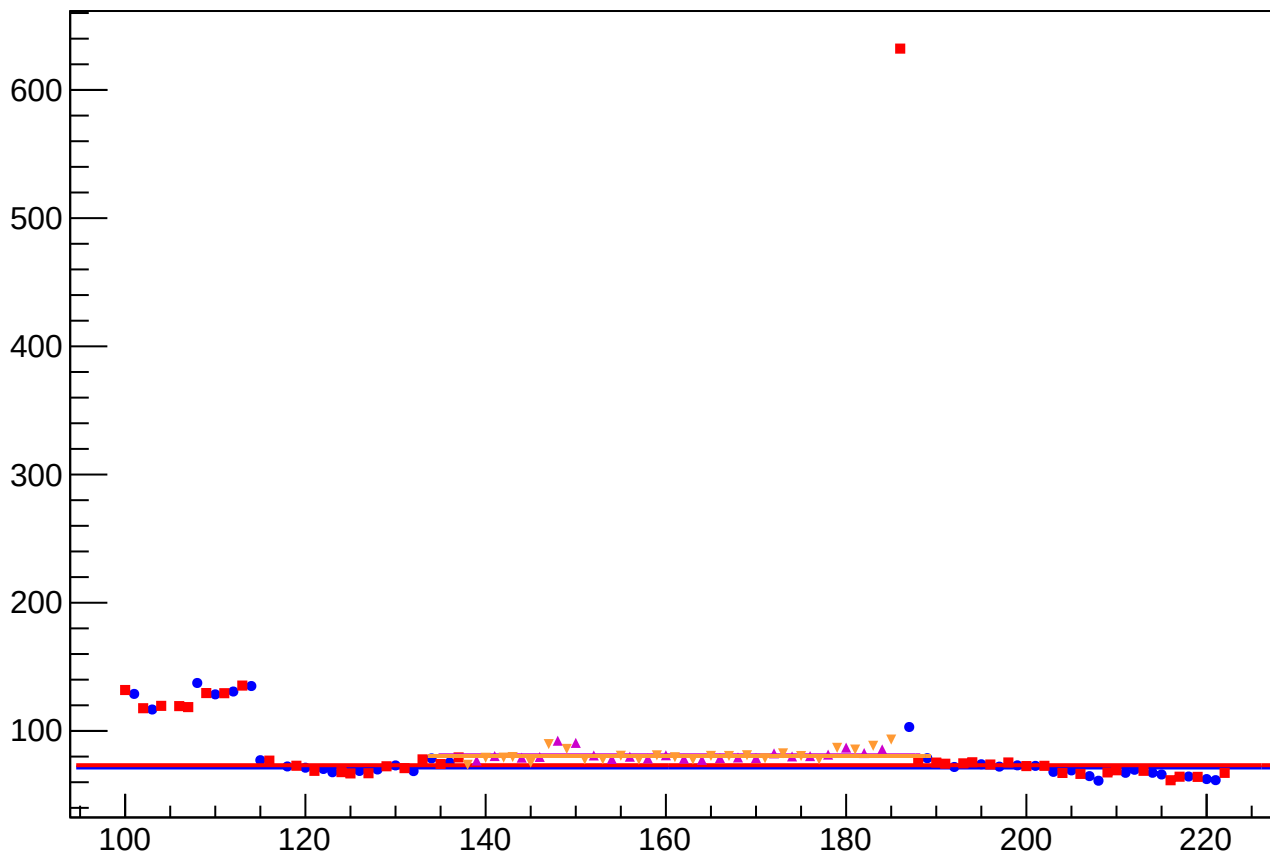
Right: -18.808 ± 11.706 $\chi^2/\text{NDF}: 83.3/72$

In: -71.721 ± 12.557 $\chi^2/\text{NDF}: 79.3/57$

Out: -76.807 ± 12.444 $\chi^2/\text{NDF}: 103.8/62$

All: -74.287 ± 8.839 $\chi^2/\text{NDF}: 183.2/120$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 71.480 $\pm$ 0.012 χ^2 /NDF: 1167037.2/34

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 73.272 $\pm$ 0.012 χ^2 /NDF: 1851432.3/37

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

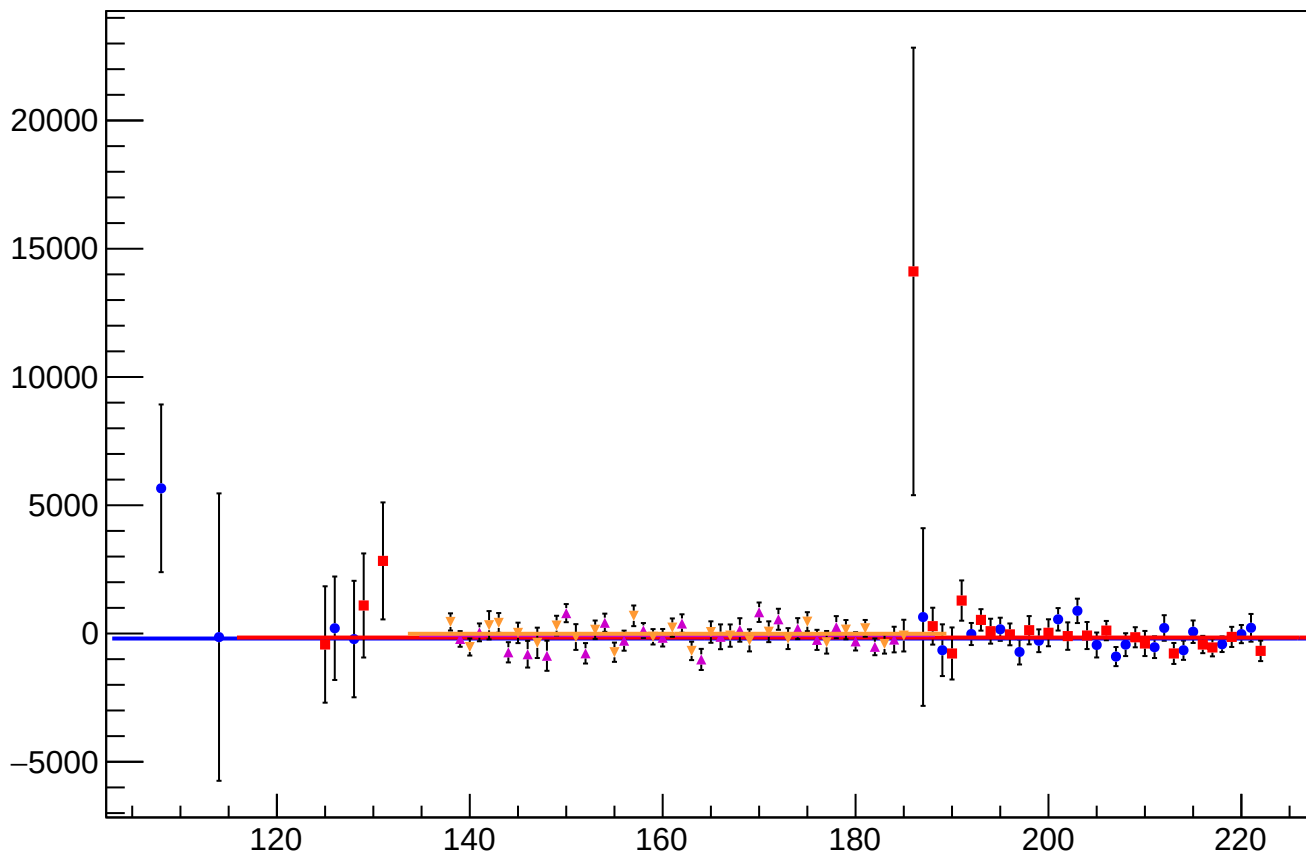
Right: 72.367 $\pm$ 0.008 χ^2 /NDF: 3030192.7/72

In: 75.473 $\pm$ 0.009 χ^2 /NDF: 1519924.4/57

Out: 76.439 $\pm$ 0.009 χ^2 /NDF: 2105791.4/62

All: 75.960 $\pm$ 0.006 χ^2 /NDF: 3631693.1/120

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -195.148+/-104.551 χ^2/NDF : 22.2/21

Left Out: -10.486+/-78.391 χ^2/NDF :22.5/24

Right Out: -157.332+/-106.428 χ^2/NDF : 19.0/21

Left In: -64.591+/-80.047 χ^2/NDF :37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

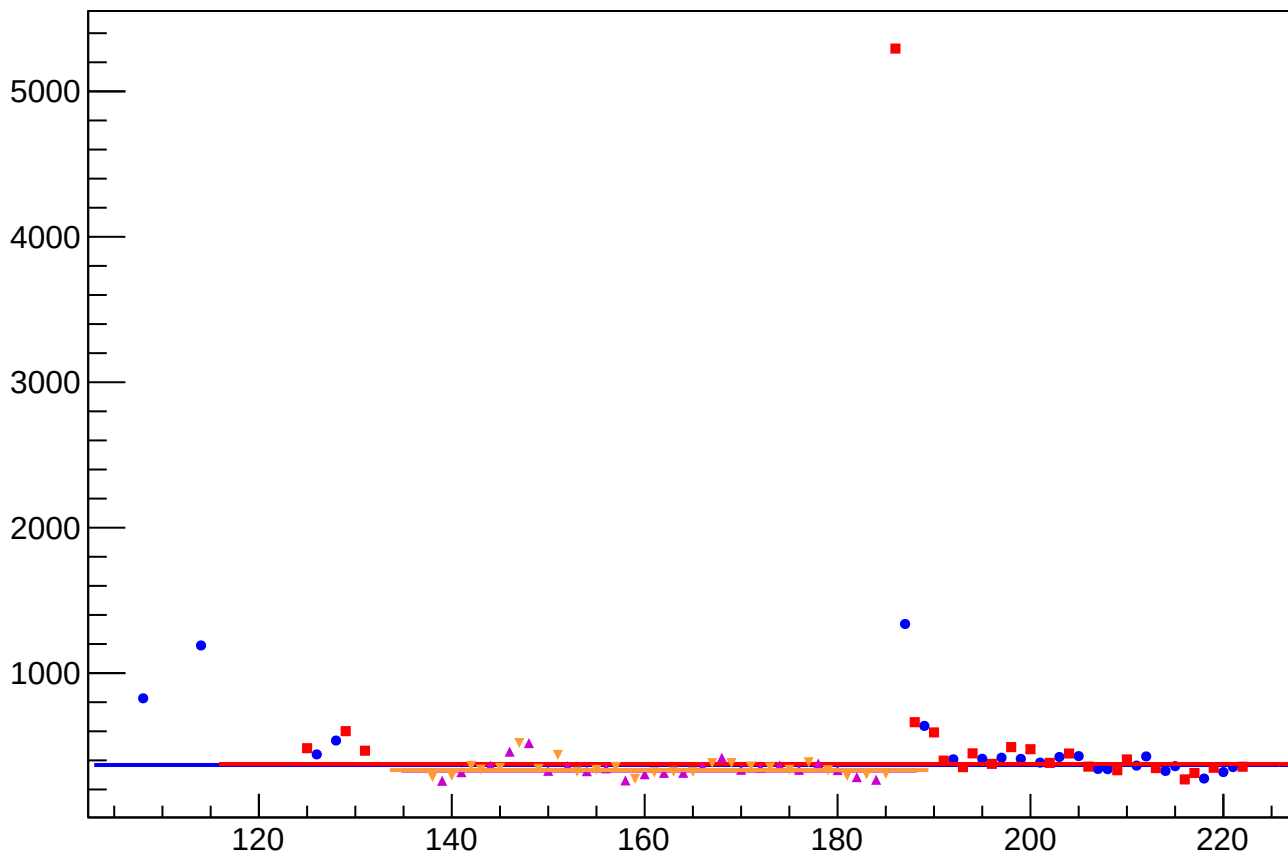
Right: -176.576+/-74.584 χ^2/NDF : 41.3/43

In: -112.839+/-63.558 χ^2/NDF :60.6/44

Out: -62.134+/-63.117 χ^2/NDF :42.8/46

All: -87.310+/-44.786 χ^2/NDF : 103.8/91

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 368.228+/-0.074 χ^2/NDF : 828453.6/21

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 375.274+/-0.075 χ^2/NDF : 1655673.7/21

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

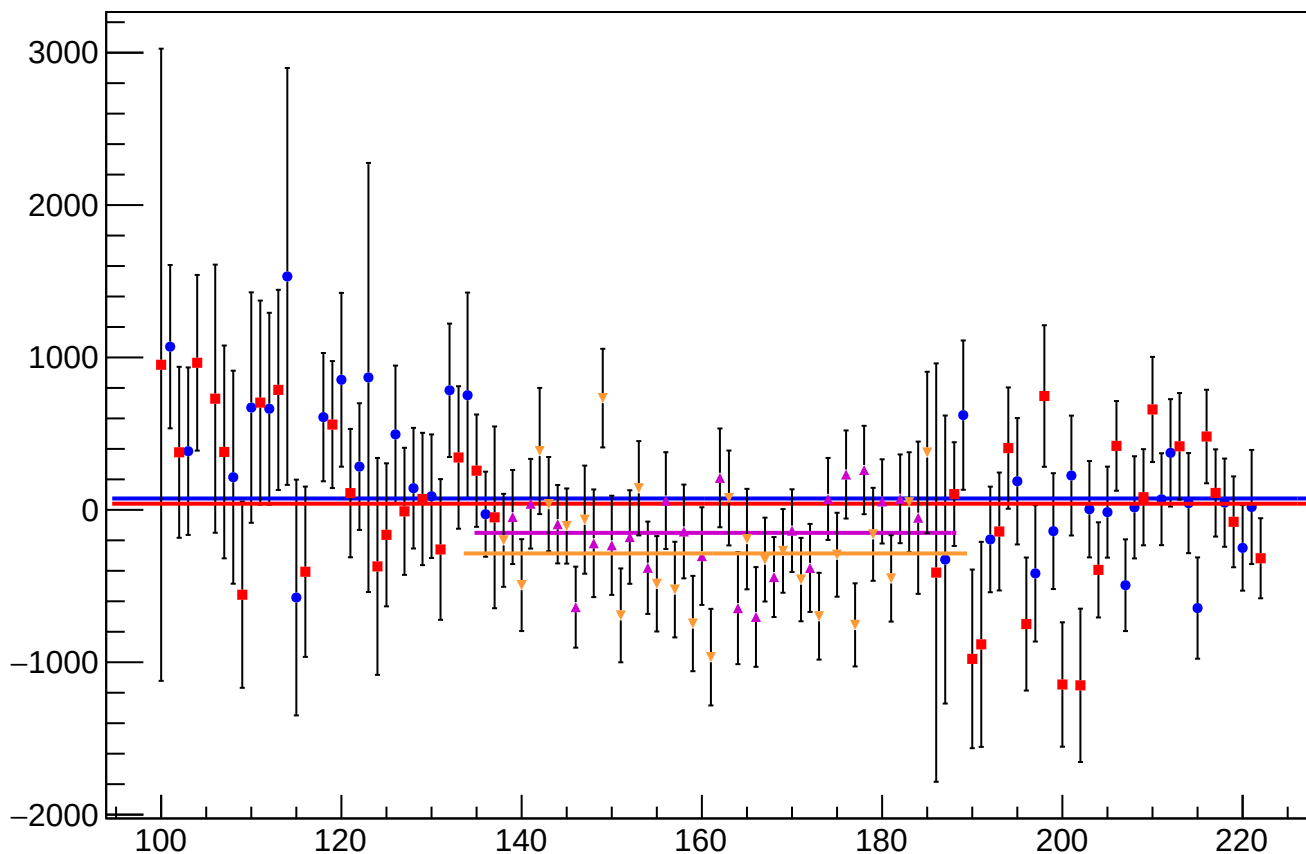
Right: 371.688+/-0.053 χ^2/NDF : 2488588.8/43

In: 344.118+/-0.045 χ^2/NDF : 1793121.1/44

Out: 348.020+/-0.045 χ^2/NDF : 2450114.2/46

All: 346.082+/-0.032 χ^2/NDF : 4247029.8/91

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 74.637 $\pm$ 68.028 χ^2 /NDF: 30.2/34

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: 40.409 $\pm$ 68.563 χ^2 /NDF: 49.1/37

Left In: -150.920 $\pm$ 62.818 χ^2 /NDF:18.7/22

Left: -220.353 $\pm$ 43.797 χ^2 /NDF: 57.6/47

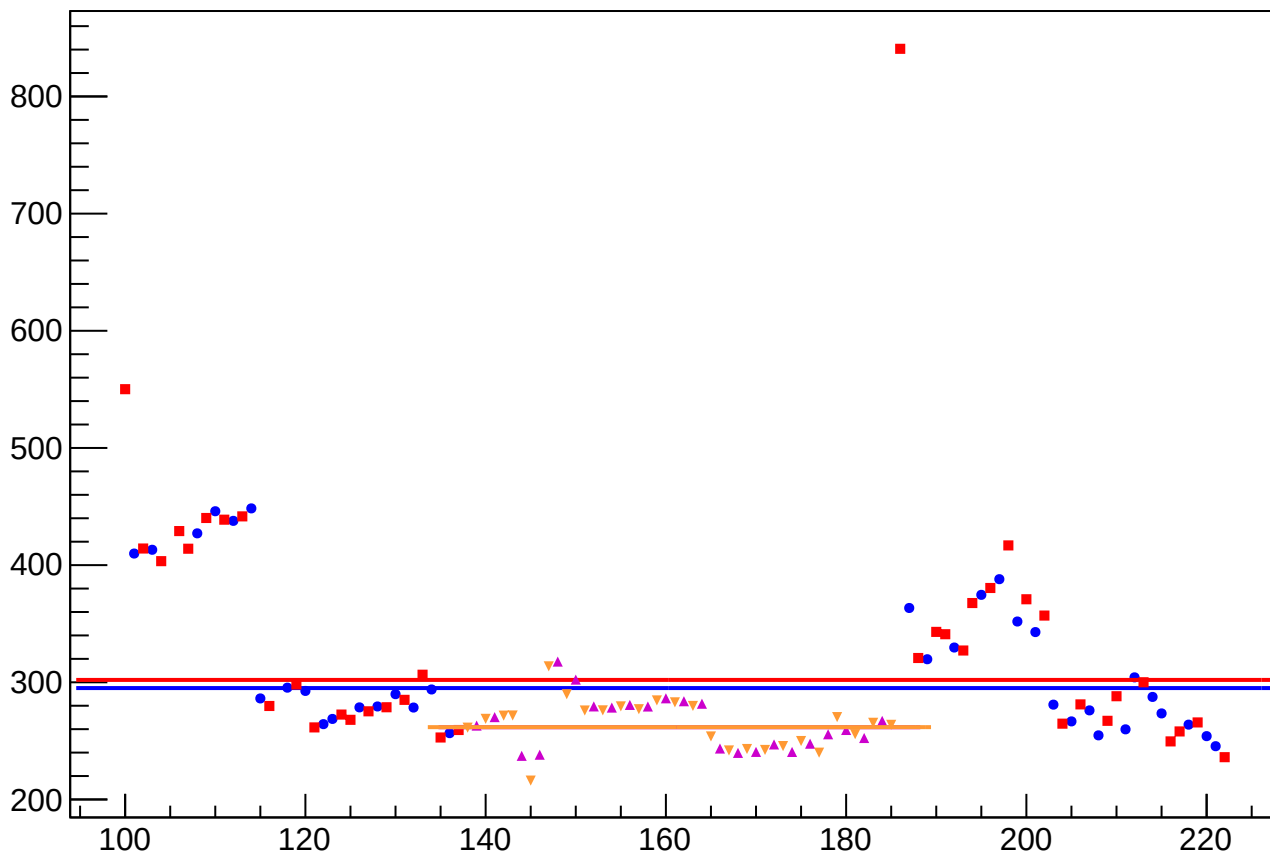
Right: 57.657 $\pm$ 48.291 χ^2 /NDF: 79.4/72

In: -47.109 $\pm$ 46.151 χ^2 /NDF:54.8/57

Out: -141.552 $\pm$ 45.613 χ^2 /NDF:98.3/62

All: -94.884 $\pm$ 32.442 χ^2 /NDF: 155.2/120

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 295.071+/-0.048 χ^2/NDF : 990081.2/34

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 302.031+/-0.048 χ^2/NDF : 1626838.8/37

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

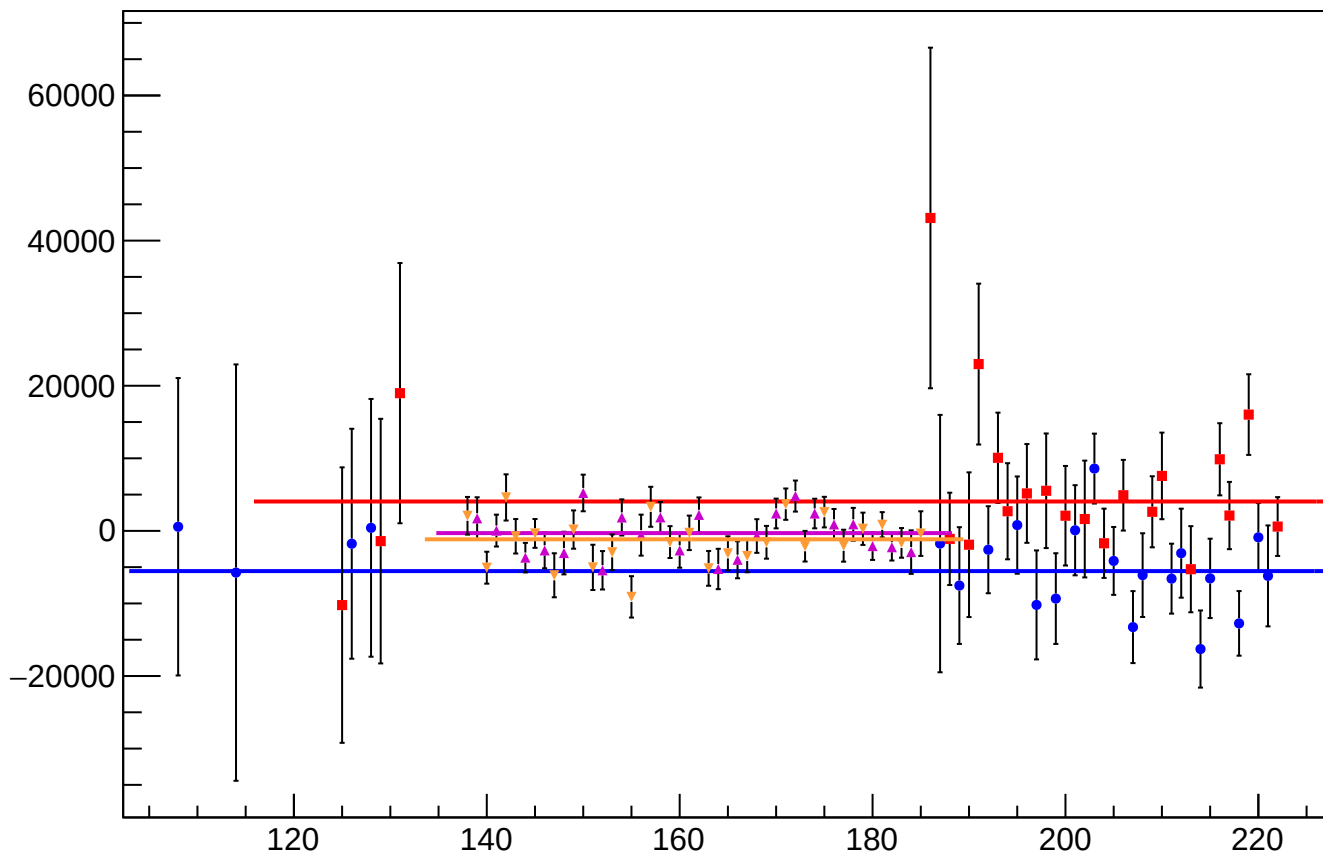
Right: 298.524+/-0.034 χ^2/NDF : 2627306.1/72

In: 277.025+/-0.033 χ^2/NDF : 1479085.3/57

Out: 279.562+/-0.032 χ^2/NDF : 2245404.5/62

All: 278.308+/-0.023 χ^2/NDF : 3727548.8/120

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5541.640 $\pm$ 1333.130 χ^2 /NDF: 22.1/21

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 4051.015 $\pm$ 1358.797 χ^2 /NDF: 20.6/21

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

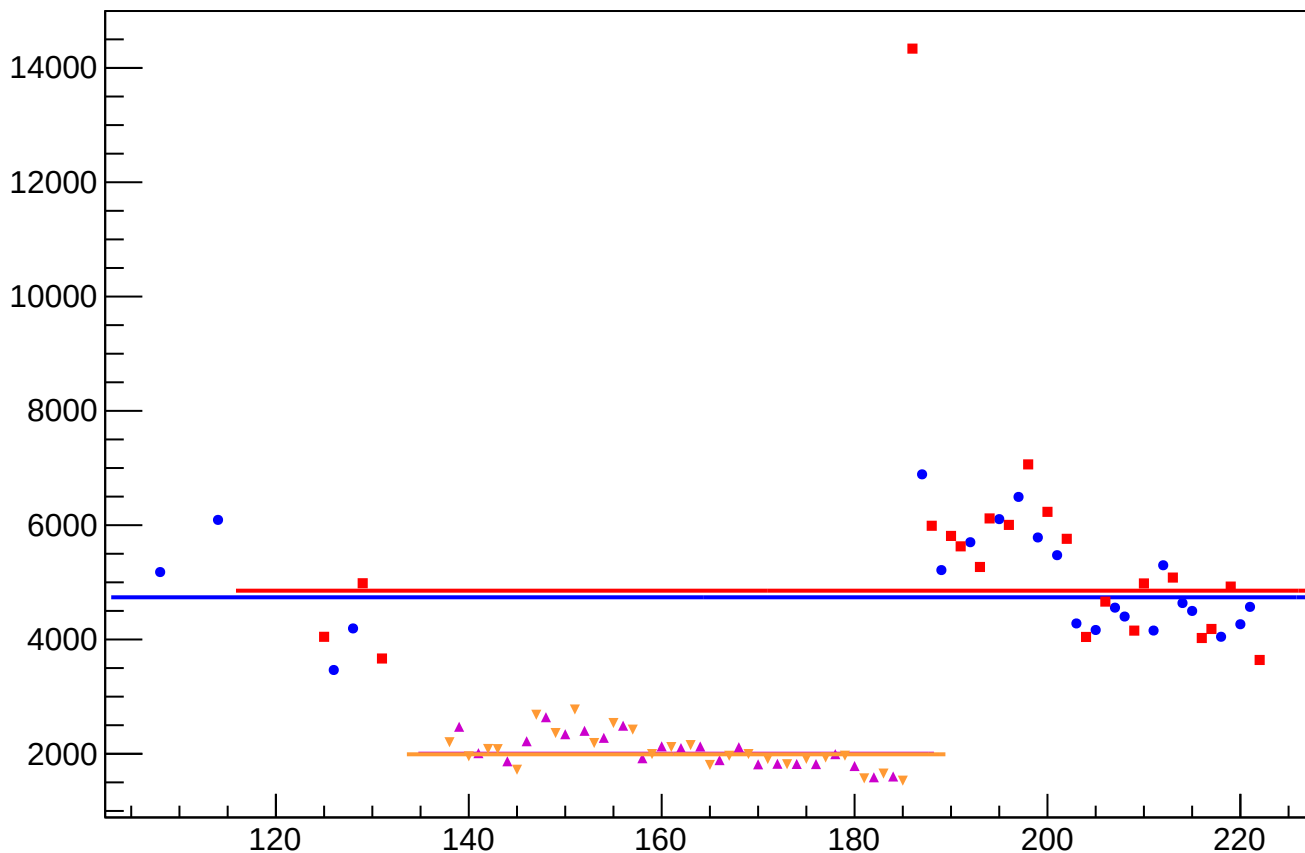
Right: -836.769 $\pm$ 951.610 χ^2 /NDF: 68.1/43

In: -913.799 $\pm$ 454.761 χ^2 /NDF:71.1/44

Out: -606.489 $\pm$ 443.365 χ^2 /NDF:72.5/46

All: -756.246 $\pm$ 317.459 χ^2 /NDF: 143.8/91

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4738.196+/-0.943 χ^2/NDF : 562290.2/21

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 4854.031+/-0.961 χ^2/NDF : 1214790.5/21

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

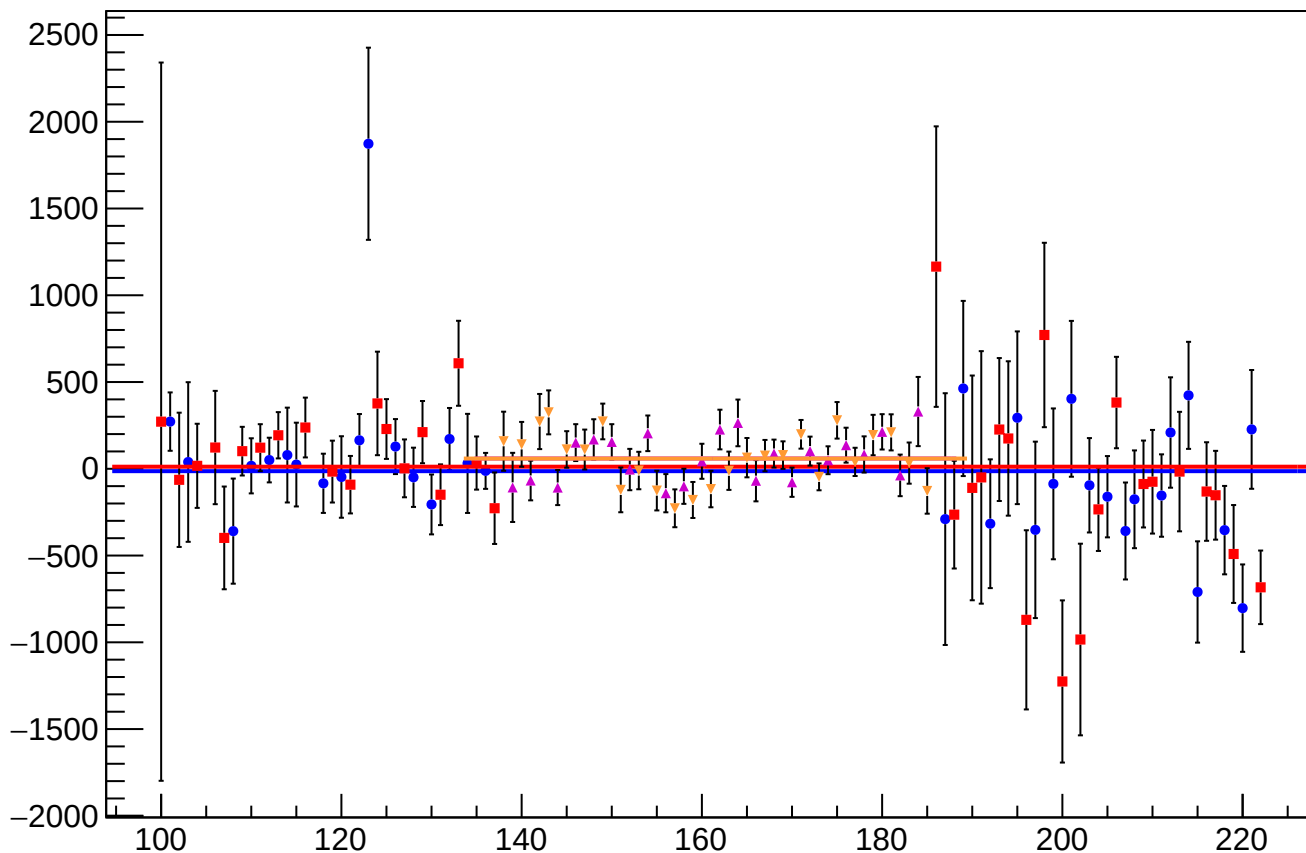
Right: 4795.009+/-0.673 χ^2/NDF : 1784486.5/43

In: 2320.532+/-0.322 χ^2/NDF : 8592195.5/44

Out: 2295.911+/-0.314 χ^2/NDF : 9874363.4/46

All: 2307.909+/-0.224 χ^2/NDF : 18469564.4/95

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: -13.721 ± 37.709 $\chi^2/\text{NDF}: 47.4/34$

Left Out: 58.983 ± 21.137 $\chi^2/\text{NDF}: 46.9/24$

Right Out: 12.034 ± 37.589 $\chi^2/\text{NDF}: 56.0/37$

Left In: 59.235 ± 21.921 $\chi^2/\text{NDF}: 29.4/22$

Left: 59.104 ± 15.216 $\chi^2/\text{NDF}: 76.3/47$

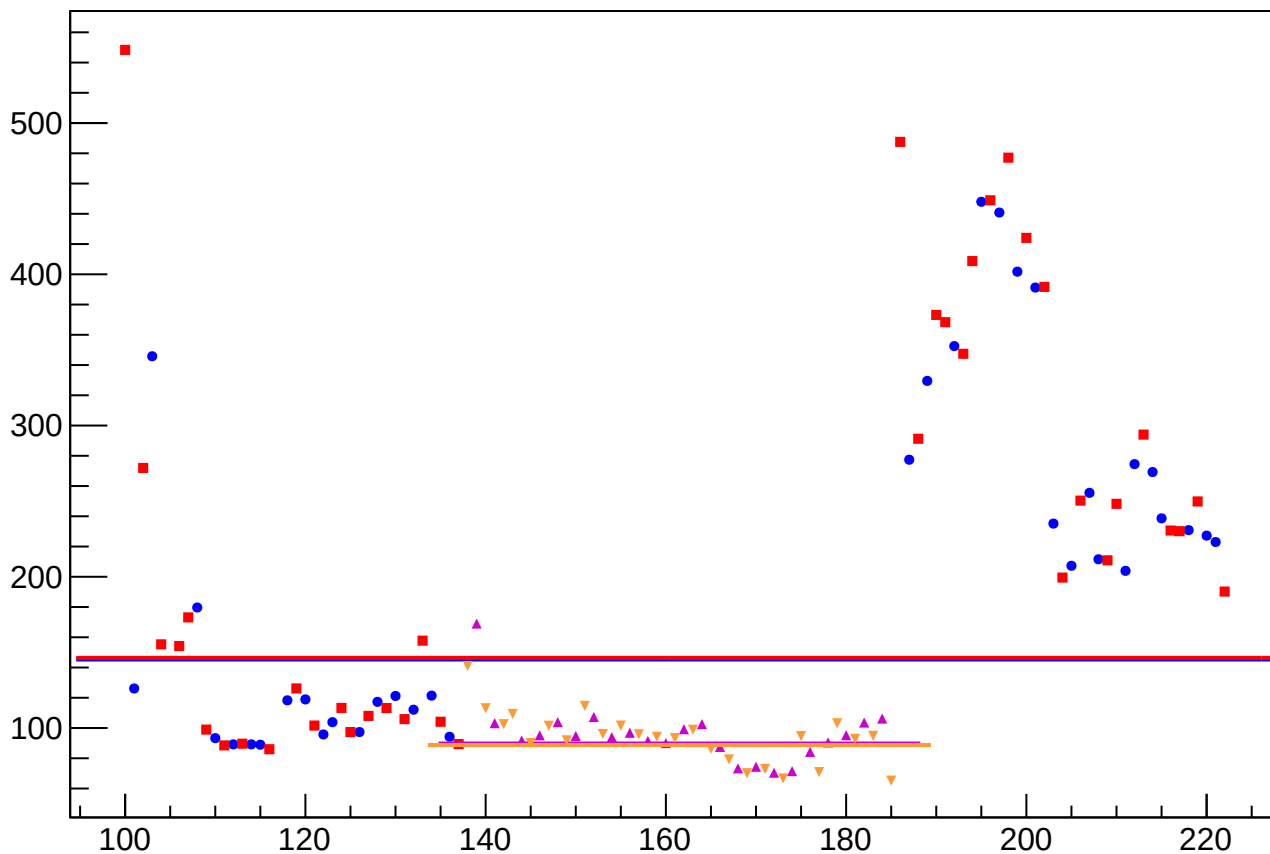
Right: -0.802 ± 26.622 $\chi^2/\text{NDF}: 103.6/72$

In: 40.808 ± 18.952 $\chi^2/\text{NDF}: 79.6/57$

Out: 47.703 ± 18.424 $\chi^2/\text{NDF}: 104.1/62$

All: 44.353 ± 13.210 $\chi^2/\text{NDF}: 183.7/120$

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 145.305 $\pm$ 0.027 χ^2 /NDF: 8333411.4/34

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 146.386 $\pm$ 0.027 χ^2 /NDF: 9304412.1/37

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

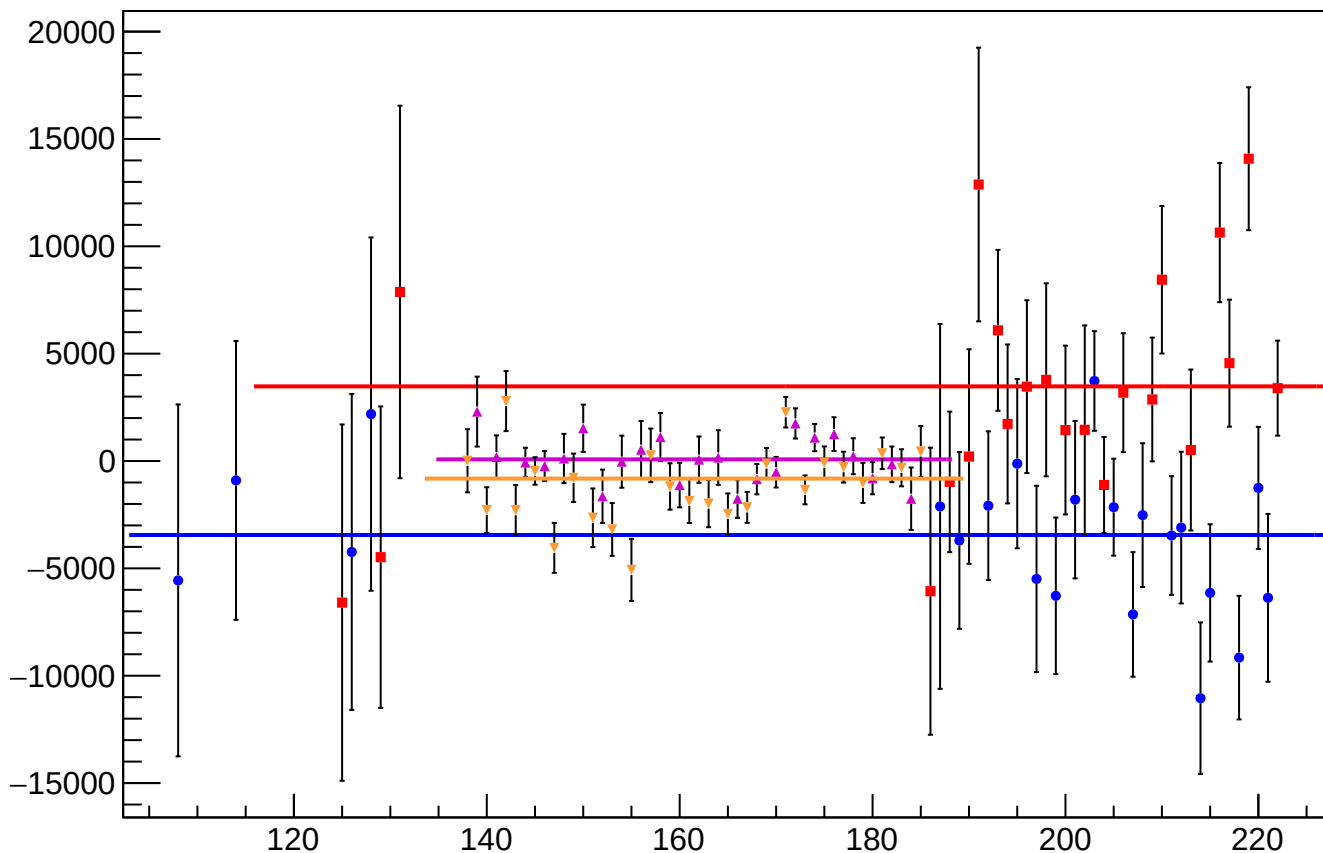
Right: 145.847 $\pm$ 0.019 χ^2 /NDF: 17638649.0/72

In: 103.794 $\pm$ 0.013 χ^2 /NDF:12461810.4/57

Out: 102.596 $\pm$ 0.013 χ^2 /NDF:13956525.5/62

All: 103.178 $\pm$ 0.009 χ^2 /NDF: 26422444.6/12

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3446.296 $\pm$ 748.765 χ^2/NDF : 24.7/21

Left Out: -818.877 $\pm$ 184.464 χ^2/NDF : 68.2/24

Right Out: 3476.612 $\pm$ 766.417 χ^2/NDF : 32.8/21

Left In: 76.204 $\pm$ 186.651 χ^2/NDF : 28.3/22

Left: -376.610 $\pm$ 131.202 χ^2/NDF : 108.1/47

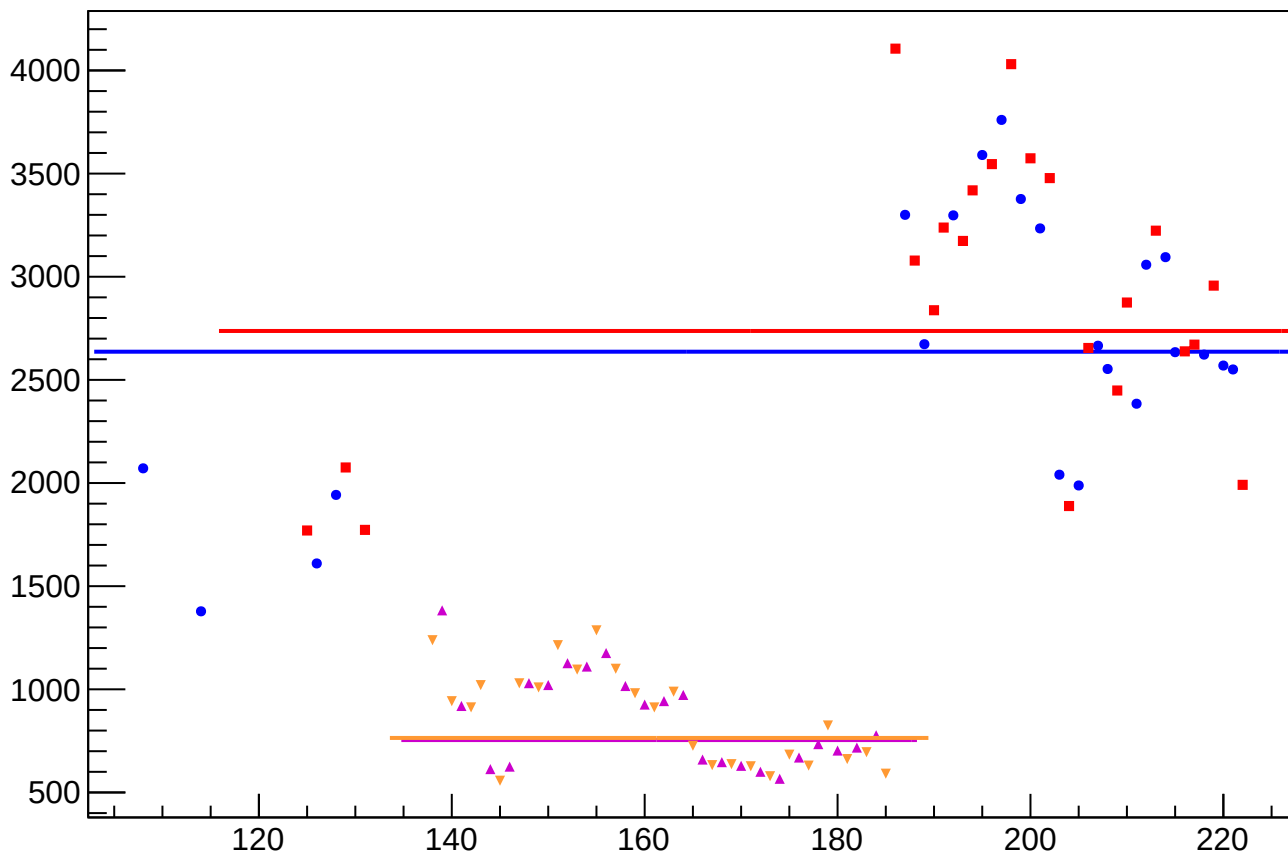
Right: -65.480 $\pm$ 535.589 χ^2/NDF : 99.2/43

In: -129.877 $\pm$ 181.109 χ^2/NDF : 73.8/44

Out: -583.670 $\pm$ 179.343 χ^2/NDF : 130.7/46

All: -358.997 $\pm$ 127.434 χ^2/NDF : 207.7/91

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2636.620 $\pm$ 0.529 χ^2 /NDF: 988746.7/21

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2737.090 $\pm$ 0.542 χ^2 /NDF: 1253733.6/21

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

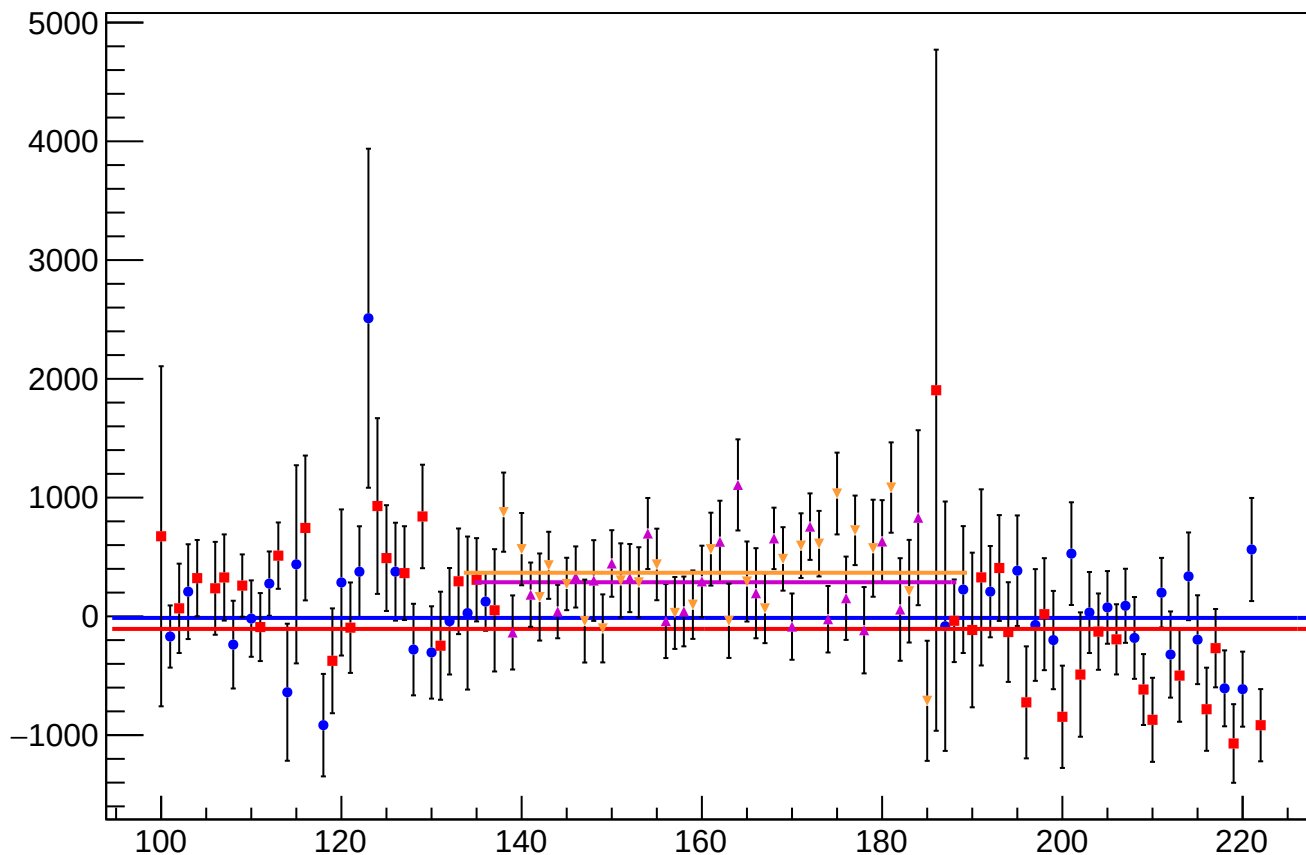
Right: 2685.685 $\pm$ 0.379 χ^2 /NDF: 2260065.3/43

In: 864.166 $\pm$ 0.128 χ^2 /NDF: 14905503.3/44

Out: 872.304 $\pm$ 0.127 χ^2 /NDF: 16095773.5/46

All: 868.275 $\pm$ 0.090 χ^2 /NDF: 31003315.6/92

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -13.181 ± 64.180 $\chi^2/\text{NDF}: 29.4/34$

Left Out: 367.028 ± 61.943 $\chi^2/\text{NDF}: 28.2/24$

Right Out: -105.895 ± 63.054 $\chi^2/\text{NDF}: 61.7/37$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

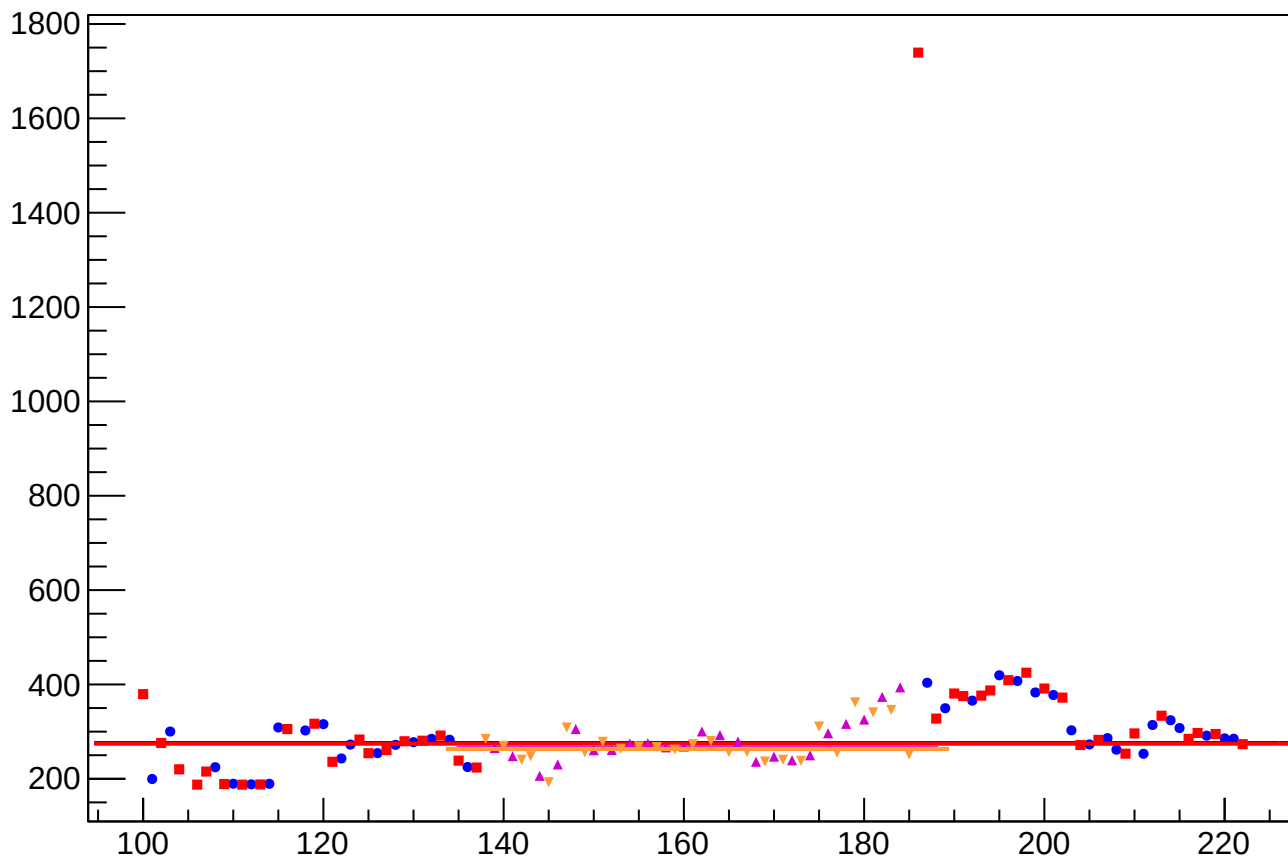
Right: -60.358 ± 44.979 $\chi^2/\text{NDF}: 92.1/72$

In: 137.124 ± 45.368 $\chi^2/\text{NDF}: 64.2/57$

Out: 134.769 ± 44.188 $\chi^2/\text{NDF}: 118.5/62$

All: 135.915 ± 31.655 $\chi^2/\text{NDF}: 182.7/120$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 275.967 $\pm$ 0.045 χ^2 /NDF: 1617688.6/34

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 274.342 $\pm$ 0.045 χ^2 /NDF: 2478587.2/37

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

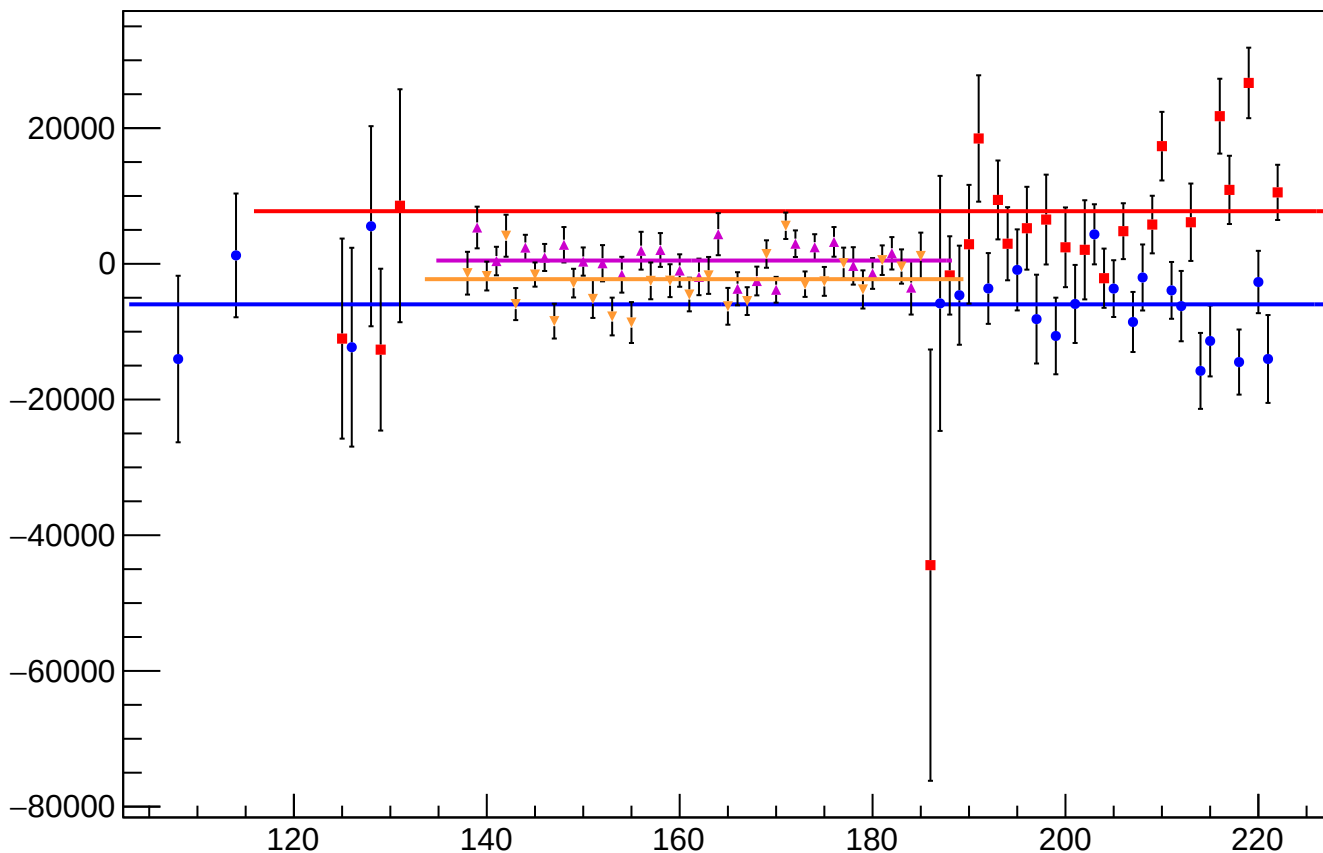
Right: 275.140 $\pm$ 0.032 χ^2 /NDF: 4096928.8/72

In: 270.442 $\pm$ 0.032 χ^2 /NDF: 2256344.8/57

Out: 268.622 $\pm$ 0.031 χ^2 /NDF: 3153147.3/62

All: 269.508 $\pm$ 0.022 χ^2 /NDF: 5411142.8/120

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5971.236 $\pm$ 1214.477 χ^2/NDF : 19.9/21

Left Out: -2260.196 $\pm$ 475.336 χ^2/NDF : 52.3/24

Right Out: 7757.763 $\pm$ 1251.347 χ^2/NDF : 44.1/21

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

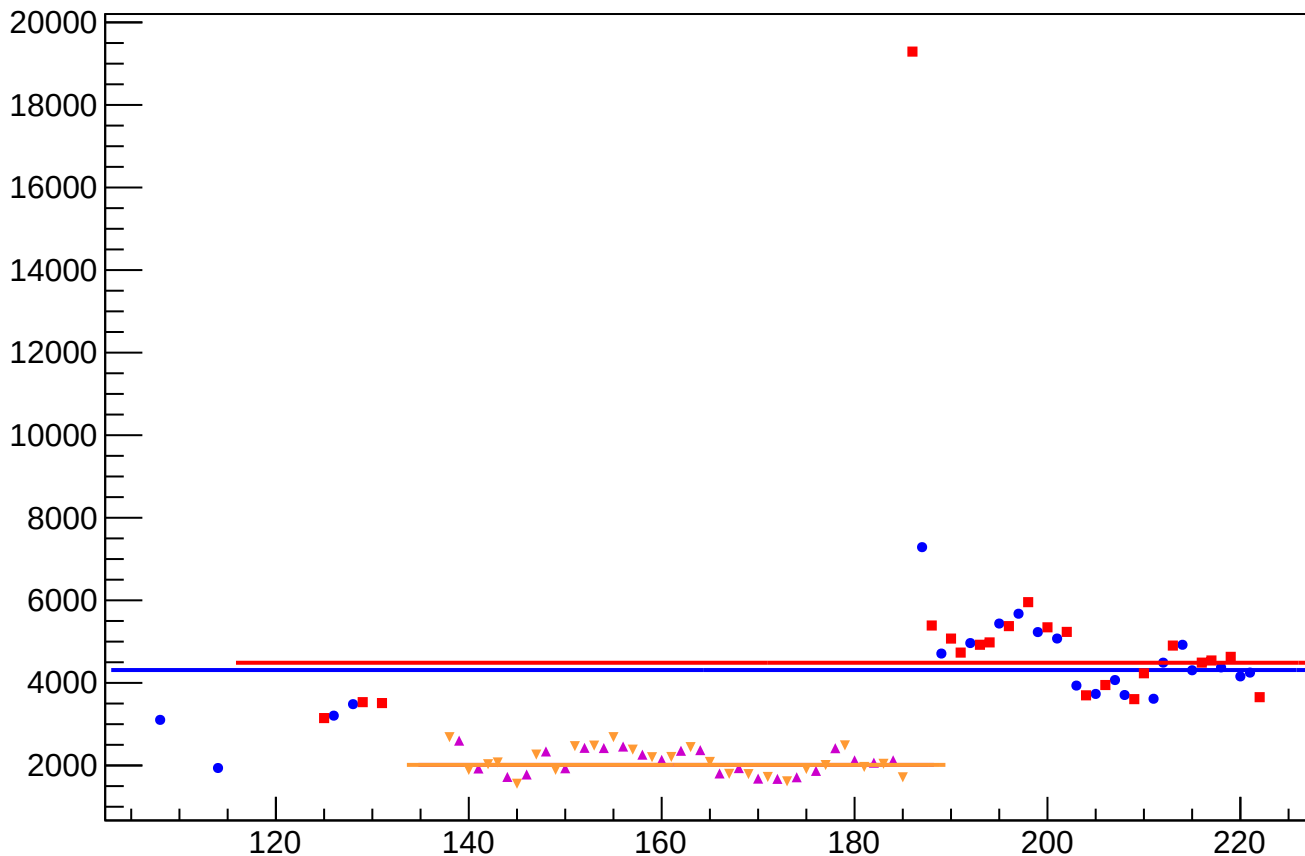
Right: 688.026 $\pm$ 871.508 χ^2/NDF : 126.0/43

In: -410.305 $\pm$ 452.385 χ^2/NDF : 69.0/44

Out: -996.952 $\pm$ 444.357 χ^2/NDF : 152.5/46

All: -708.880 $\pm$ 317.008 χ^2/NDF : 222.4/91

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4311.396 $\pm$ 0.859 χ^2 /NDF: 679984.5/21

Left Out: 2014.106 $\pm$ 0.336 χ^2 /NDF: 835656.9/24

Right Out: 4487.899 $\pm$ 0.885 χ^2 /NDF: 1048496.0/21

Left In: 2013.245 $\pm$ 0.345 χ^2 /NDF: 662077.8/22

Left: 2013.686 $\pm$ 0.241 χ^2 /NDF: 1497737.9/47

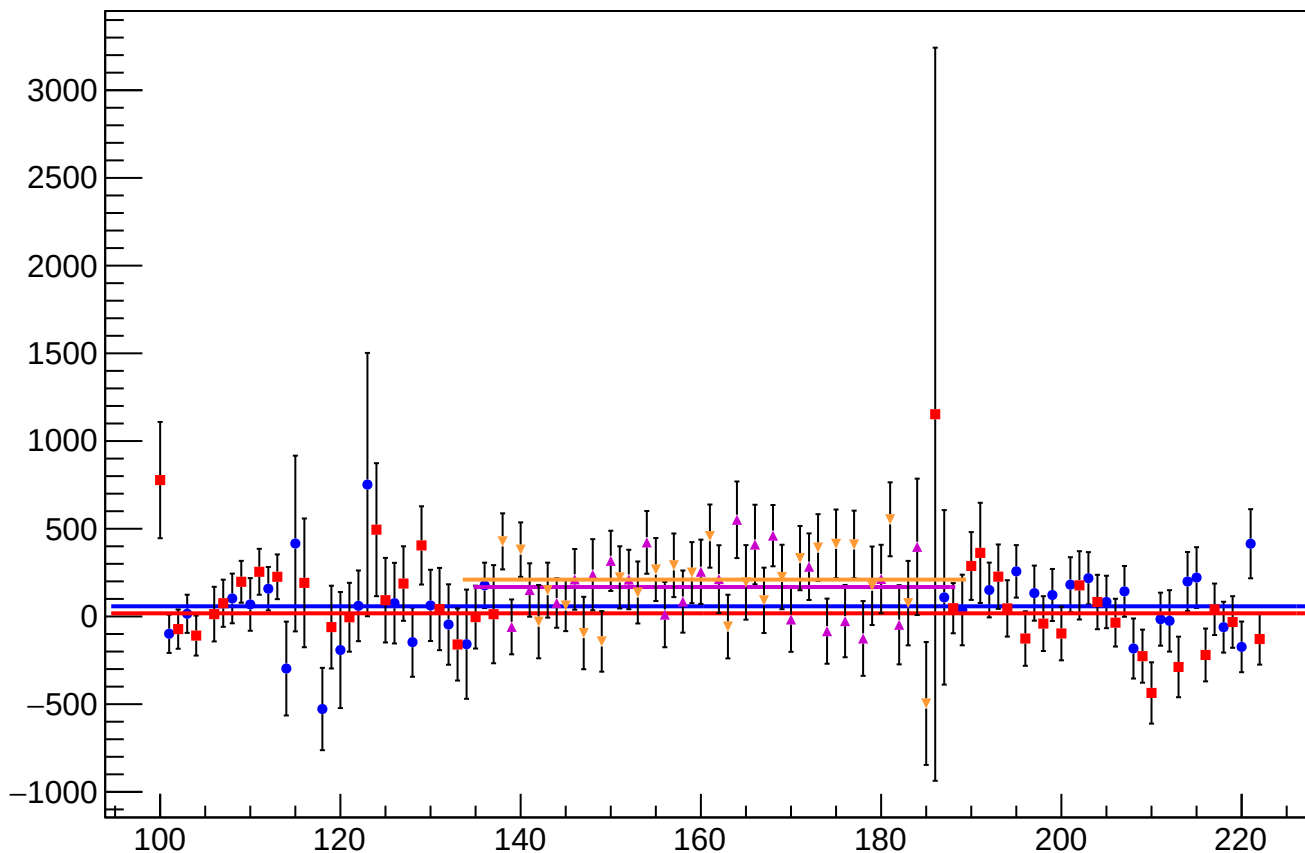
Right: 4397.009 $\pm$ 0.616 χ^2 /NDF: 1748970.6/43

In: 2332.117 $\pm$ 0.320 χ^2 /NDF: 7509962.0/44

Out: 2326.046 $\pm$ 0.314 χ^2 /NDF: 8714837.8/46

All: 2329.027 $\pm$ 0.224 χ^2 /NDF: 16224983.1/91

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 57.920 $\pm$ 28.435 χ^2 /NDF: 30.8/34

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 17.862 $\pm$ 27.182 χ^2 /NDF: 45.7/37

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

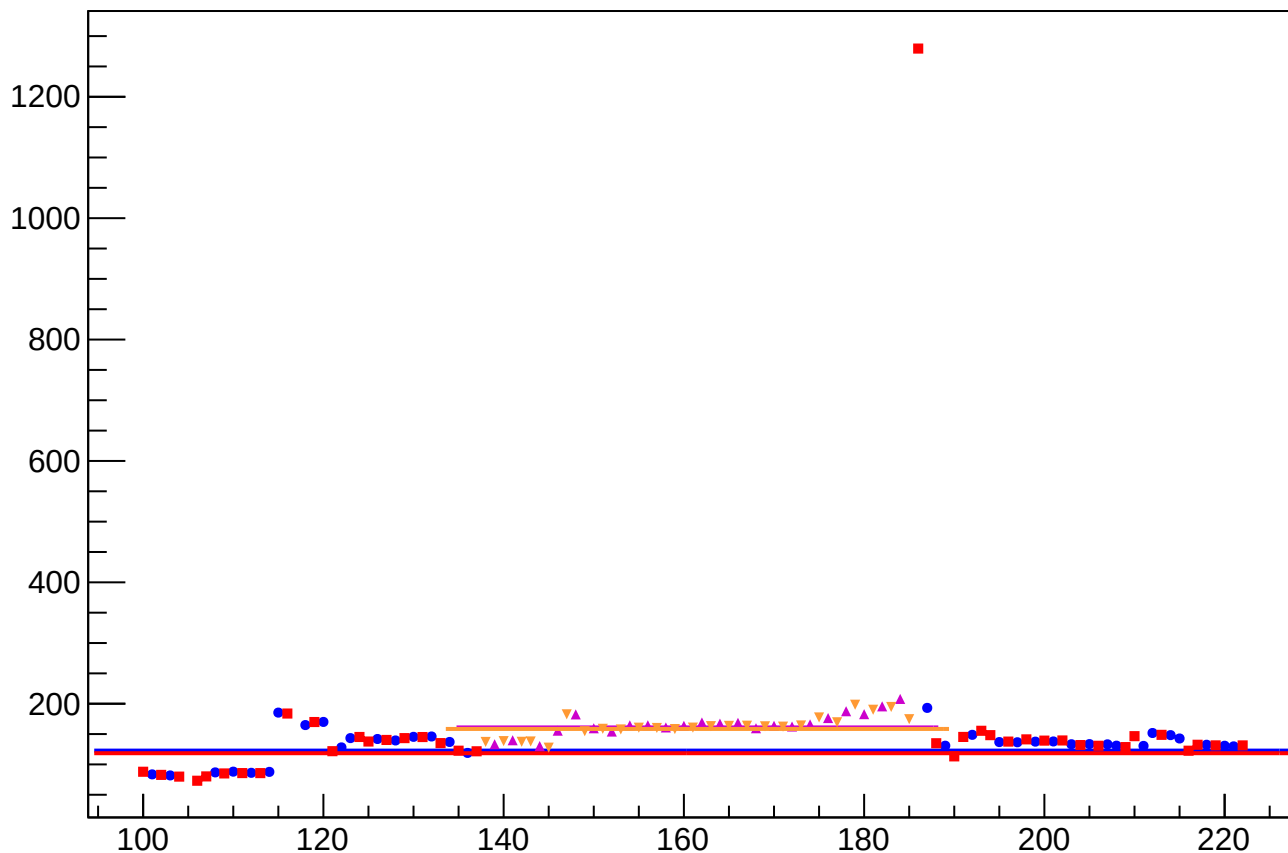
Right: 36.989 $\pm$ 19.648 χ^2 /NDF: 77.6/72

In: 96.427 $\pm$ 22.918 χ^2 /NDF:57.2/57

Out: 85.021 $\pm$ 21.925 χ^2 /NDF:90.7/62

All: 90.471 $\pm$ 15.843 χ^2 /NDF: 148.0/120

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 122.742 $\pm$ 0.020 χ^2 /NDF: 1557948.5/34

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 118.442 $\pm$ 0.019 χ^2 /NDF: 2611463.4/37

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

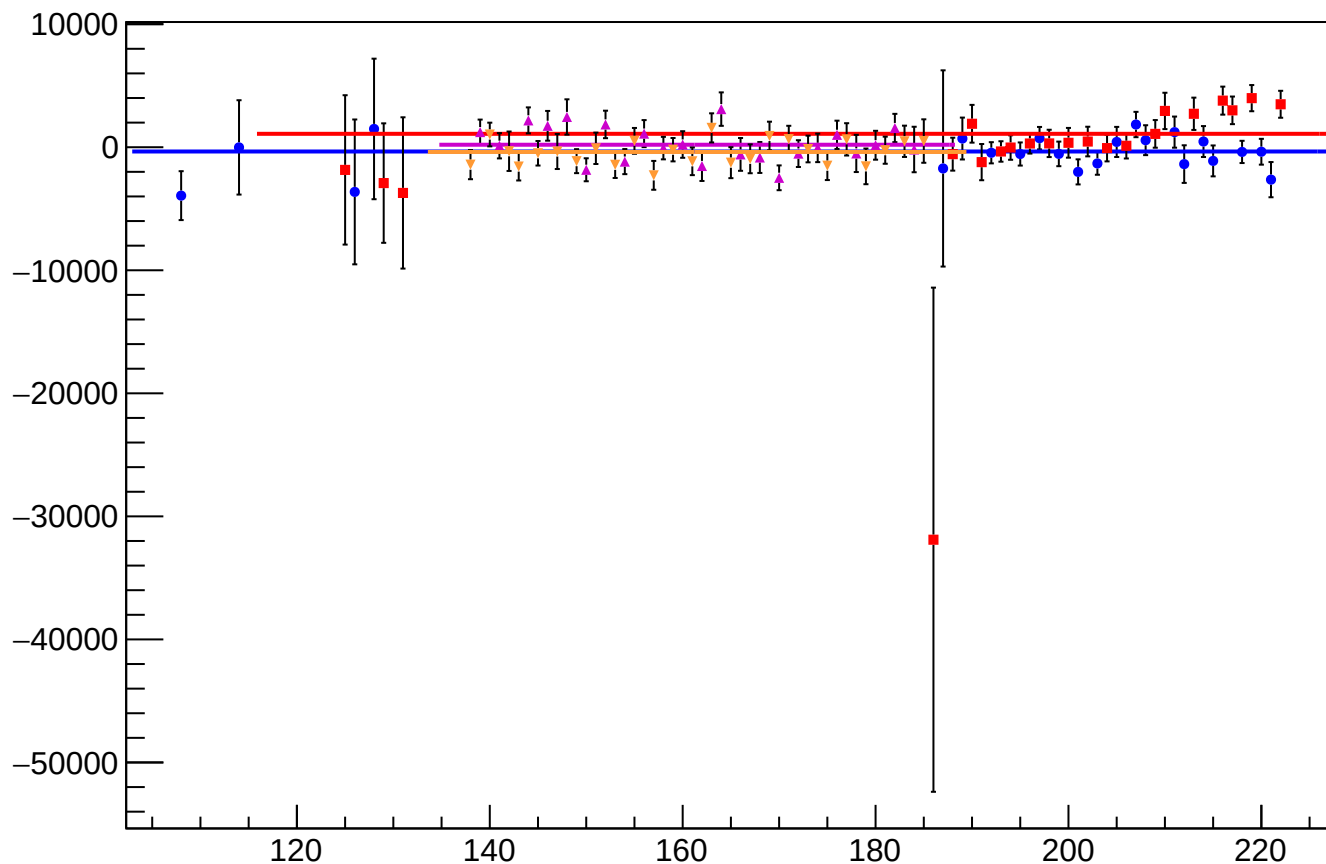
Right: 120.495 $\pm$ 0.014 χ^2 /NDF: 4193305.3/72

In: 136.128 $\pm$ 0.016 χ^2 /NDF: 3202737.9/57

Out: 132.417 $\pm$ 0.016 χ^2 /NDF: 4558769.4/62

All: 134.190 $\pm$ 0.011 χ^2 /NDF: 7788894.9/120

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -346.309+/-259.934 χ^2/NDF : 20.2/21

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 1090.227+/-261.810 χ^2/NDF : 40.6/21

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

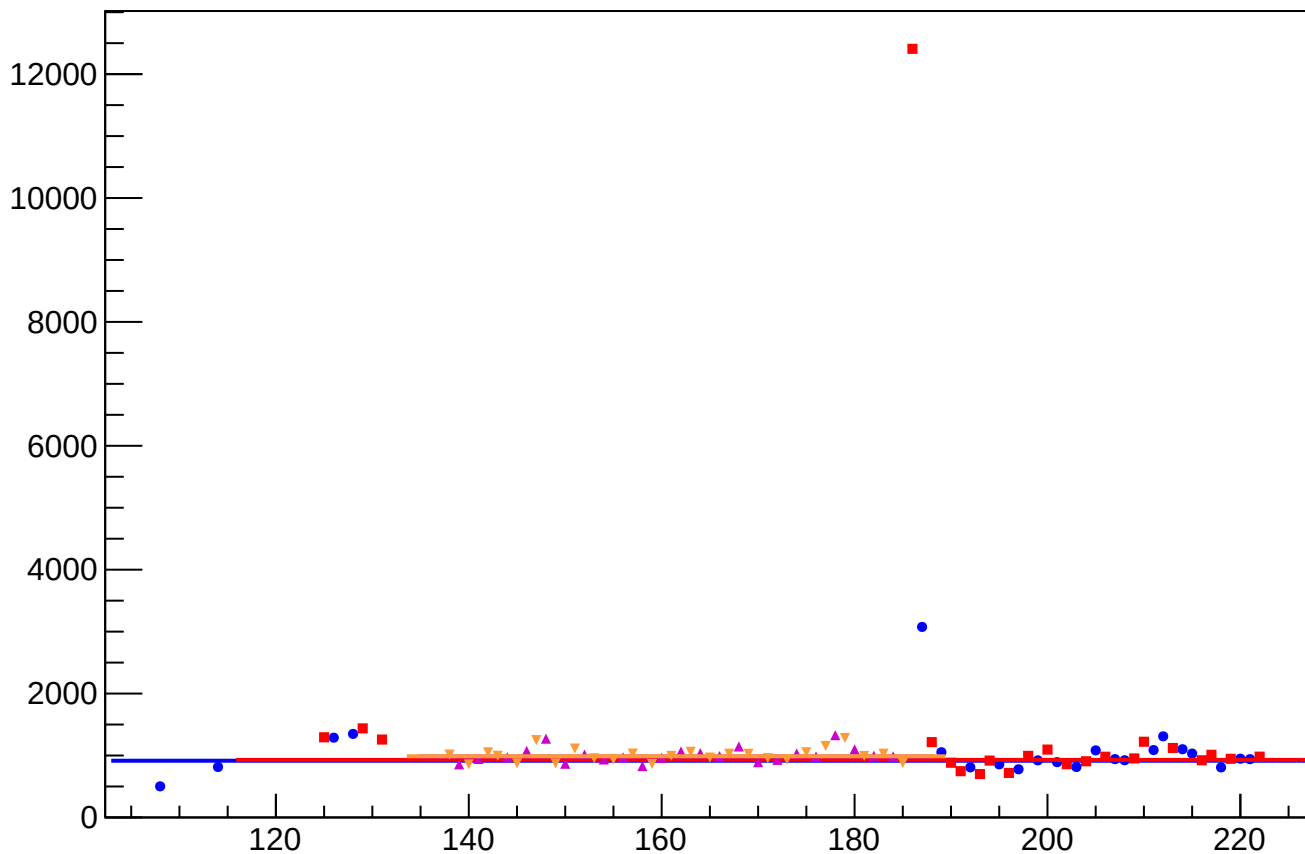
Right: 366.794+/-184.461 χ^2/NDF : 75.9/43

In: -47.303+/-175.317 χ^2/NDF : 58.1/44

Out: 263.349+/-173.566 χ^2/NDF : 76.4/46

All: 109.582+/-123.344 χ^2/NDF : 136.1/91

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 915.759+/-0.184 χ^2/NDF : 677146.6/21

Left Out: 987.869+/-0.164 χ^2/NDF :376958.5/24

Right Out: 929.255+/-0.185 χ^2/NDF : 1267342.8/21

Left In: 983.893+/-0.168 χ^2/NDF :416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

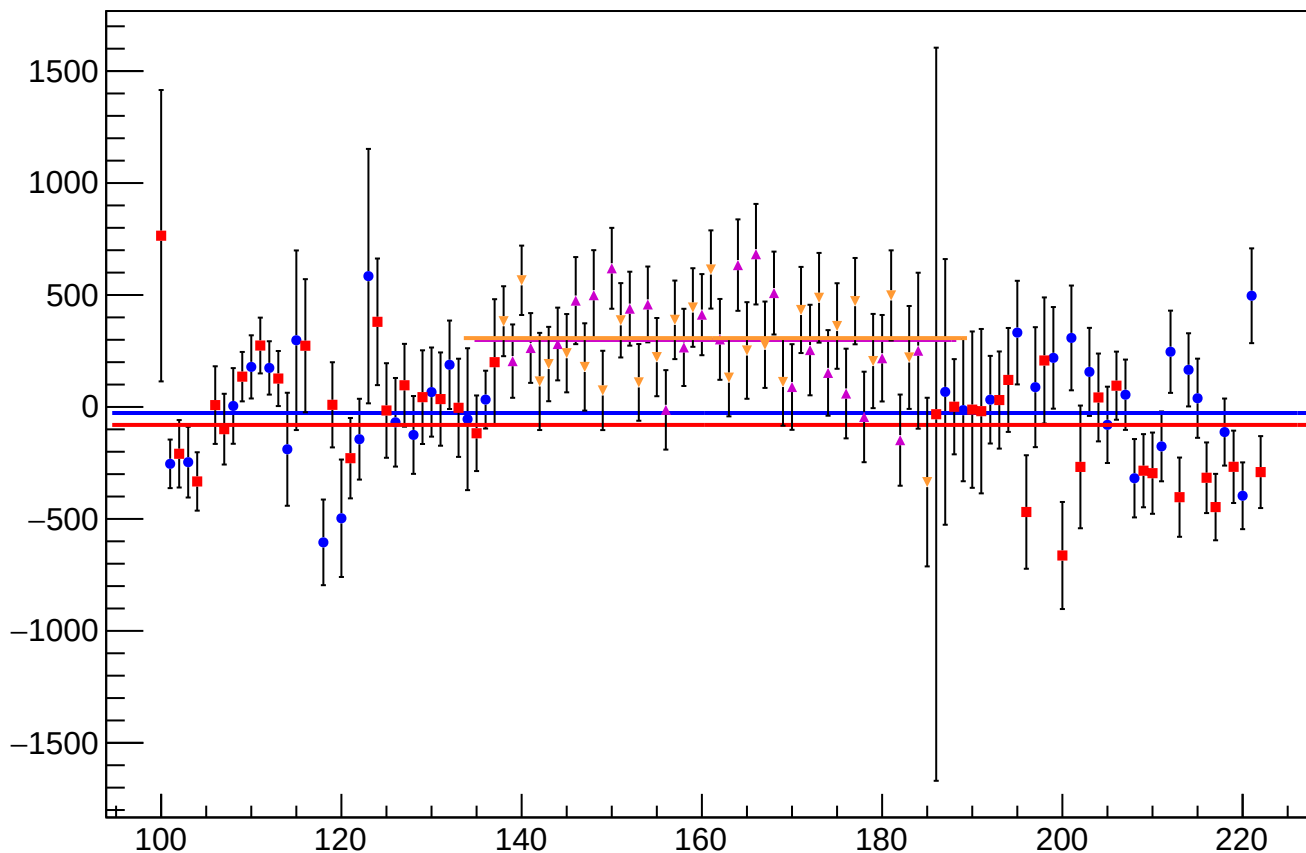
Right: 922.458+/-0.130 χ^2/NDF : 1947165.5/43

In: 952.899+/-0.124 χ^2/NDF :1168315.1/44

Out: 962.108+/-0.123 χ^2/NDF :1700489.1/46

All: 957.550+/-0.087 χ^2/NDF : 2871591.3/91

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -26.950 ± 30.820 $\chi^2/\text{NDF}: 55.5/34$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -80.178 ± 30.035 $\chi^2/\text{NDF}: 59.5/37$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

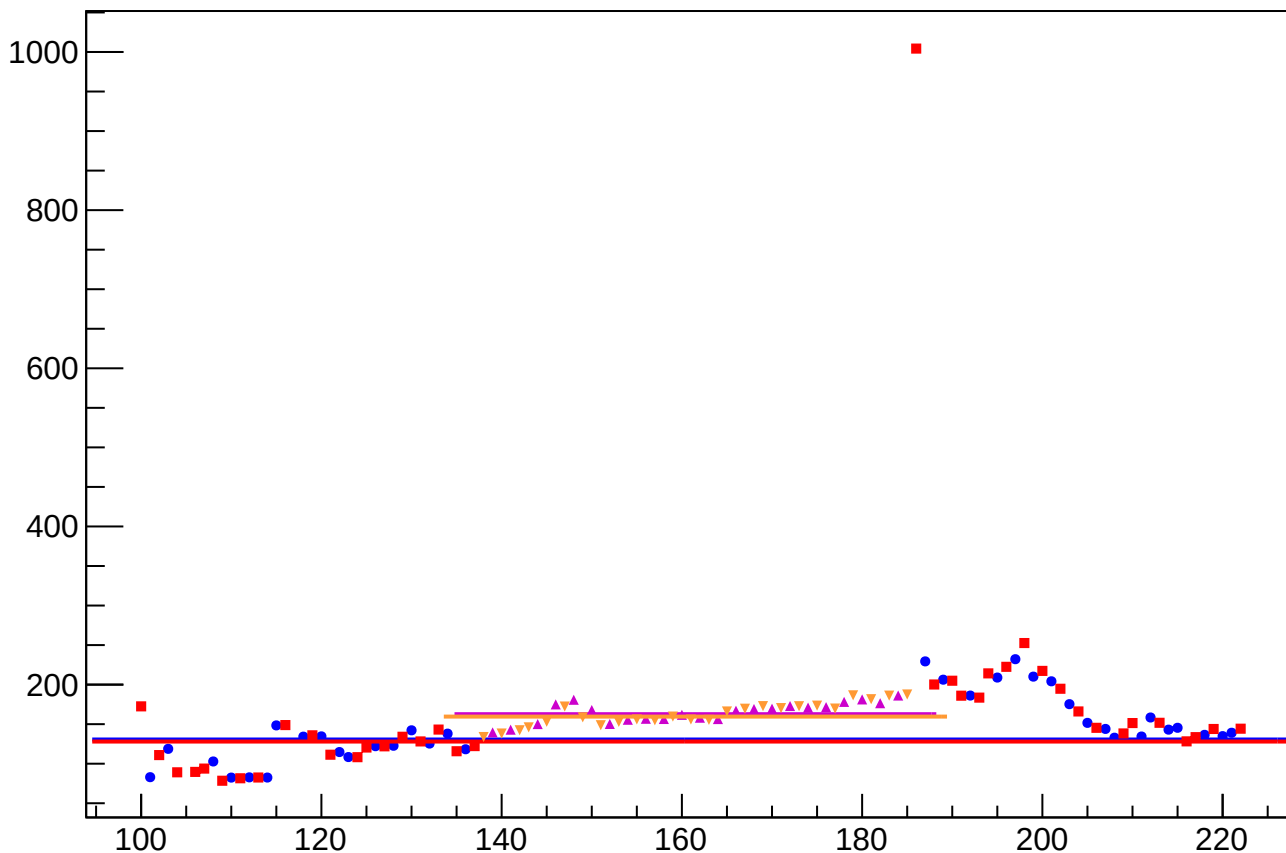
Right: -54.250 ± 21.510 $\chi^2/\text{NDF}: 116.5/72$

In: 98.391 ± 24.183 $\chi^2/\text{NDF}: 127.1/57$

Out: 72.423 ± 23.388 $\chi^2/\text{NDF}: 145.8/62$

All: 84.973 ± 16.812 $\chi^2/\text{NDF}: 273.4/120$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 130.597+/-0.022 χ^2/NDF : 2658251.3/34

Left Out: 159.568+/-0.026 χ^2/NDF :287744.2/24

Right Out: 128.007+/-0.021 χ^2/NDF : 4072681.2/37

Left In: 162.606+/-0.028 χ^2/NDF :199542.3/22

Left: 161.019 ± 0.019 $\chi^2/\text{NDF}: 493626.9/47$

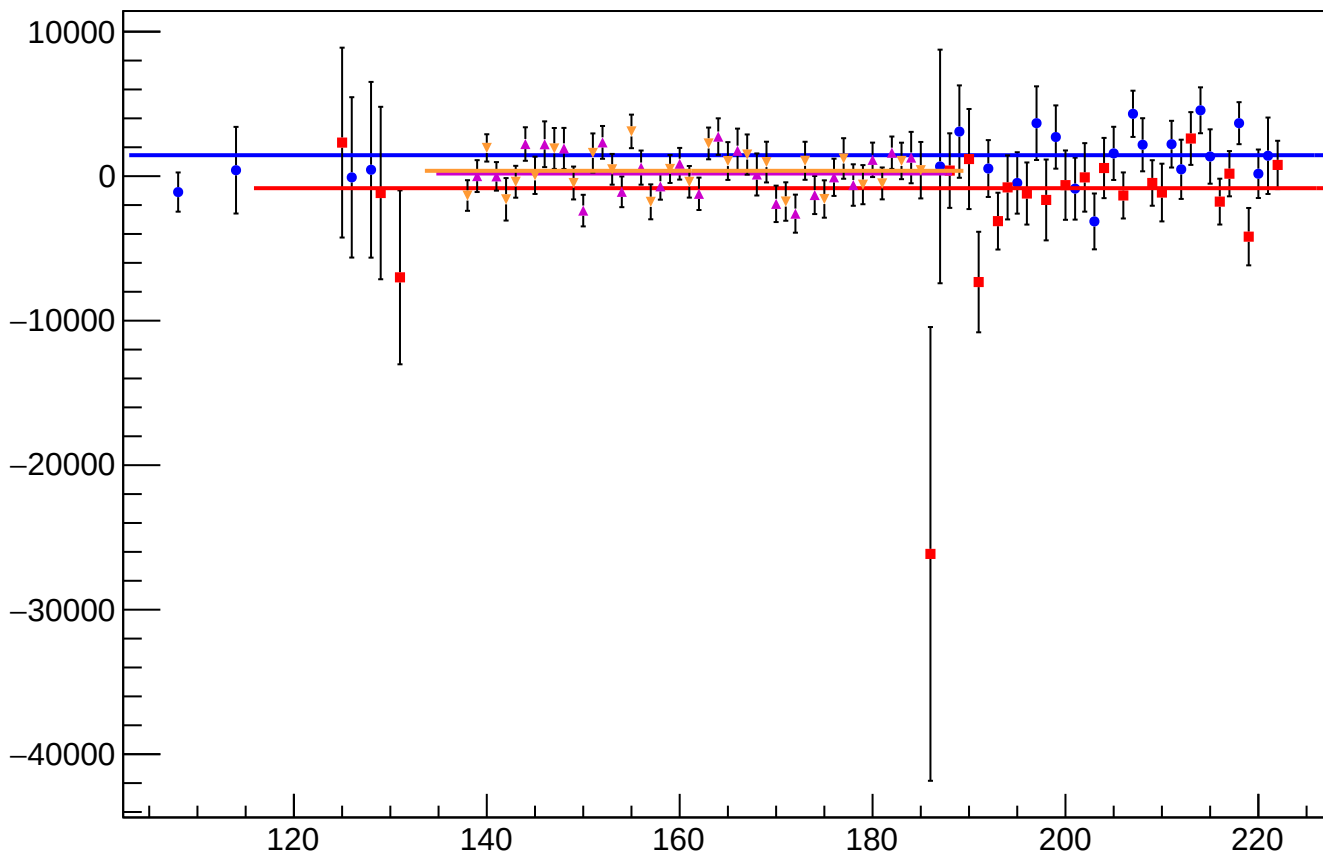
Right: 129.268 $\pm$ 0.015 χ^2 /NDF: 6738175.7/72

In: 142.898+/-0.017 χ^2/NDF :3686930.6/57

Out: 140.431+/-0.017 χ^2/NDF :5229752.3/62

All: 141.623 ± 0.012 $\chi^2/\text{NDF}: 8927443.5/120$

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1450.872 $\pm$ 429.992 χ^2 /NDF: 23.5/21

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -831.990 $\pm$ 468.679 χ^2 /NDF: 18.2/21

Left In: 183.107 $\pm$ 252.258 χ^2 /NDF:36.5/22

Left: 279.847 $\pm$ 175.203 χ^2 /NDF: 67.2/47

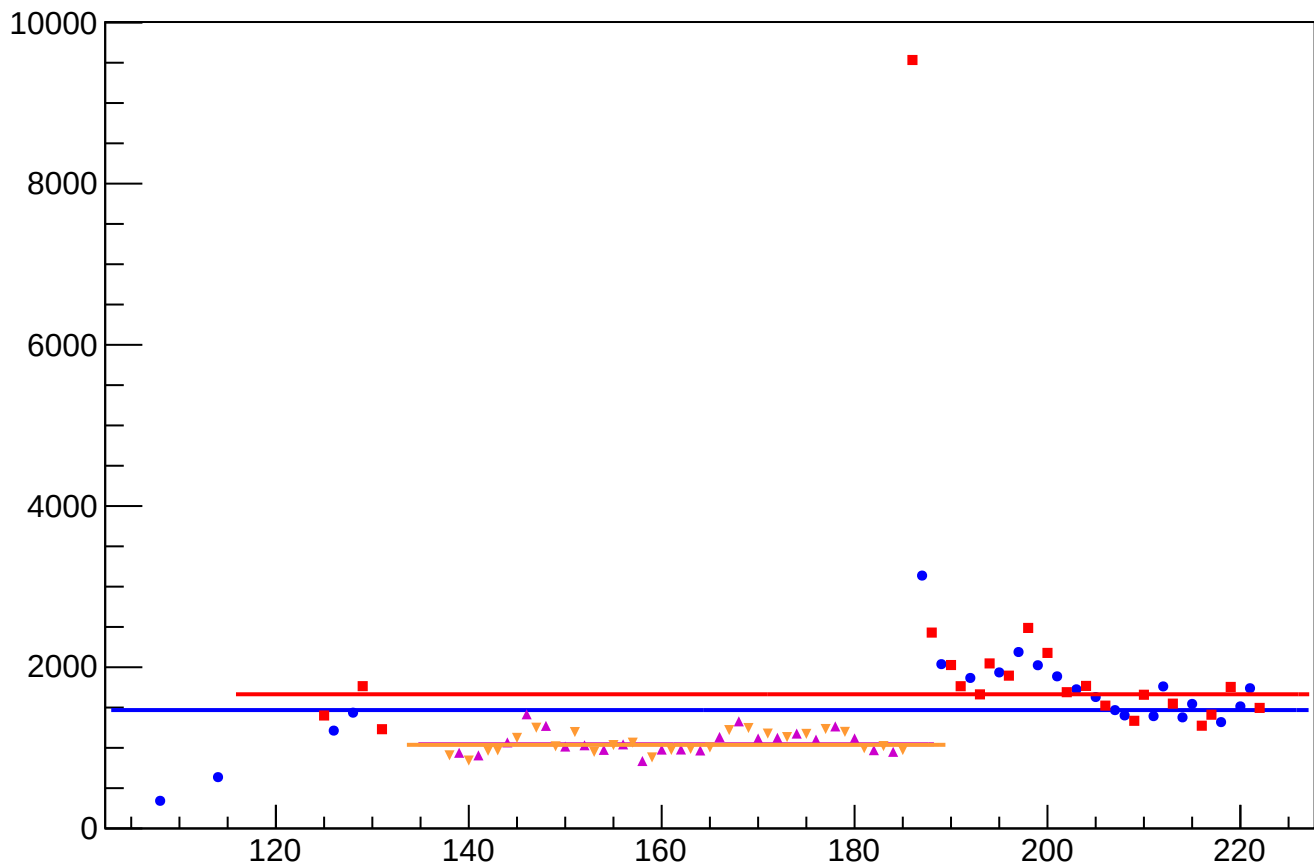
Right: 407.535 $\pm$ 316.846 χ^2 /NDF: 54.6/43

In: 507.712 $\pm$ 217.580 χ^2 /NDF:66.4/44

Out: 114.480 $\pm$ 216.092 χ^2 /NDF:53.9/46

All: 309.747 $\pm$ 153.323 χ^2 /NDF: 121.9/91

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1468.753+/-0.304 χ^2/NDF : 2380245.3/21

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1664.772+/-0.331 χ^2/NDF : 1377723.3/21

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

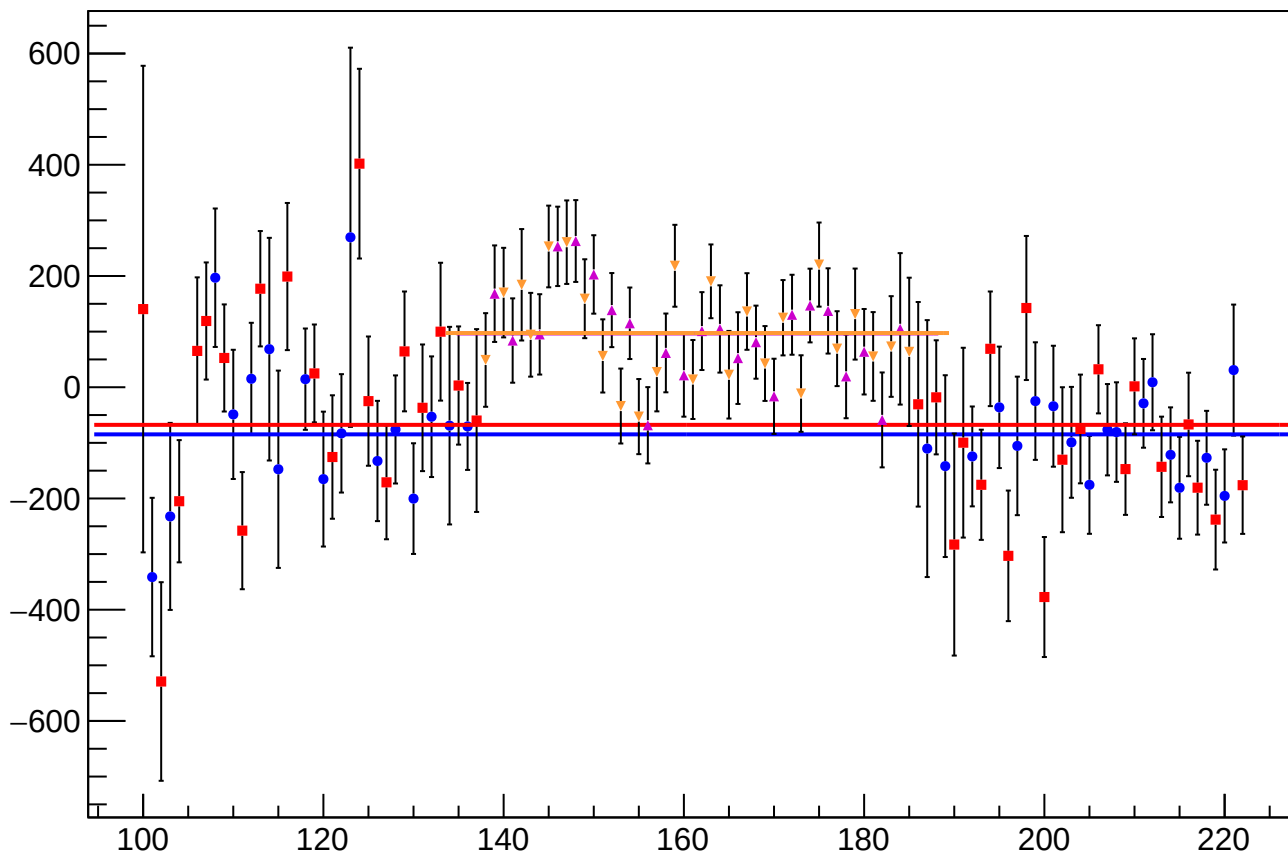
Right: 1558.339+/-0.224 χ^2/NDF : 3947924.0/43

In: 1153.311+/-0.154 χ^2/NDF : 4370339.7/44

Out: 1170.996+/-0.153 χ^2/NDF : 4691957.5/46

All: 1162.214+/-0.108 χ^2/NDF : 9068948.9/91

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -84.737 ± 17.832 $\chi^2/\text{NDF}: 23.4/34$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -67.635 ± 17.624 $\chi^2/\text{NDF}: 71.4/37$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

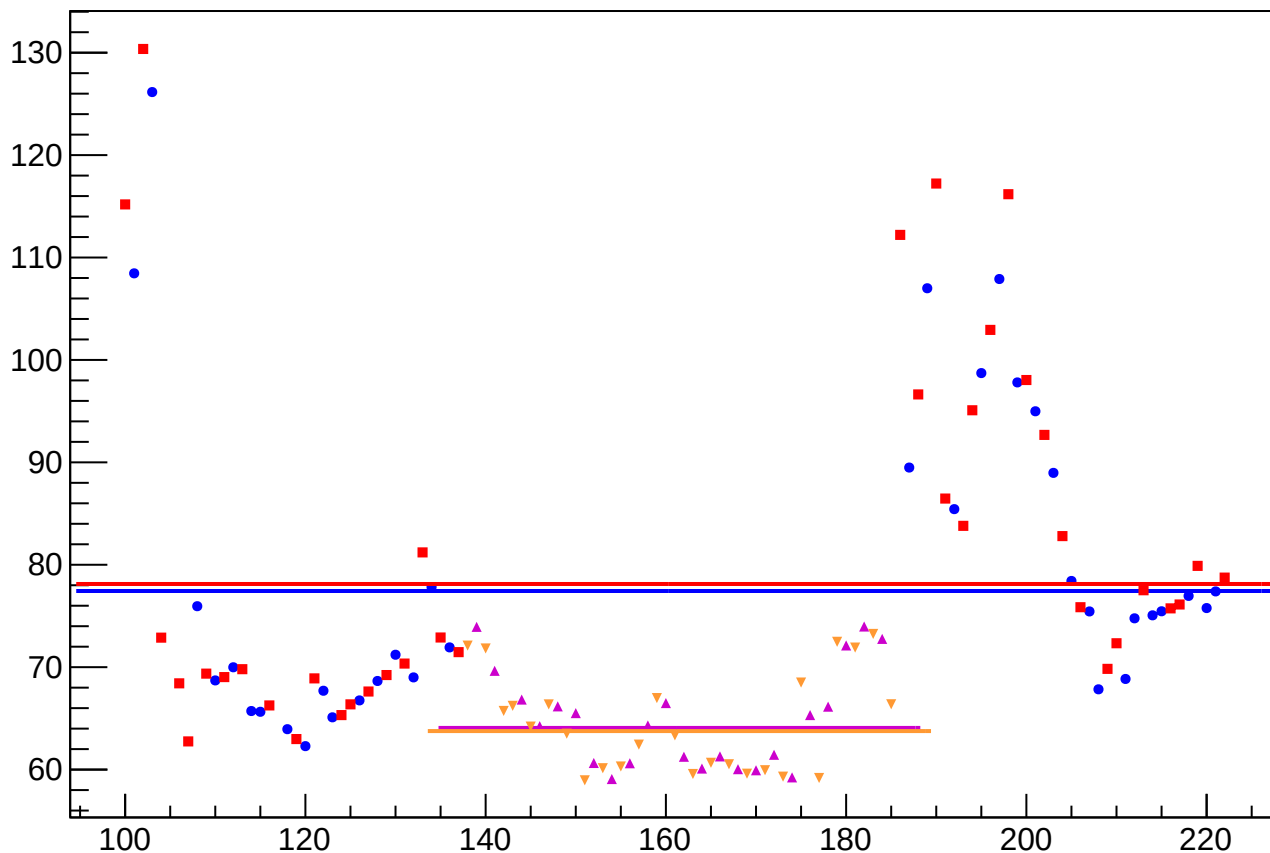
Right: -76.086 ± 12.535 $\chi^2/\text{NDF}: 95.3/72$

In: 19.368 ± 11.642 $\chi^2/\text{NDF}: 112.0/57$

Out: 28.745 ± 11.370 $\chi^2/\text{NDF}: 158.6/62$

All: 24.168 ± 8.134 $\chi^2/\text{NDF}: 271.0/120$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.439+/-0.013 χ^2/NDF : 949449.0/34

Left Out: 63.761+/-0.011 χ^2/NDF : 192803.8/24

Right Out: 78.123+/-0.012 χ^2/NDF : 1132121.2/37

Left In: 64.069+/-0.011 χ^2/NDF : 164660.4/22

Left: 63.910+/-0.008 χ^2/NDF : 357877.2/47

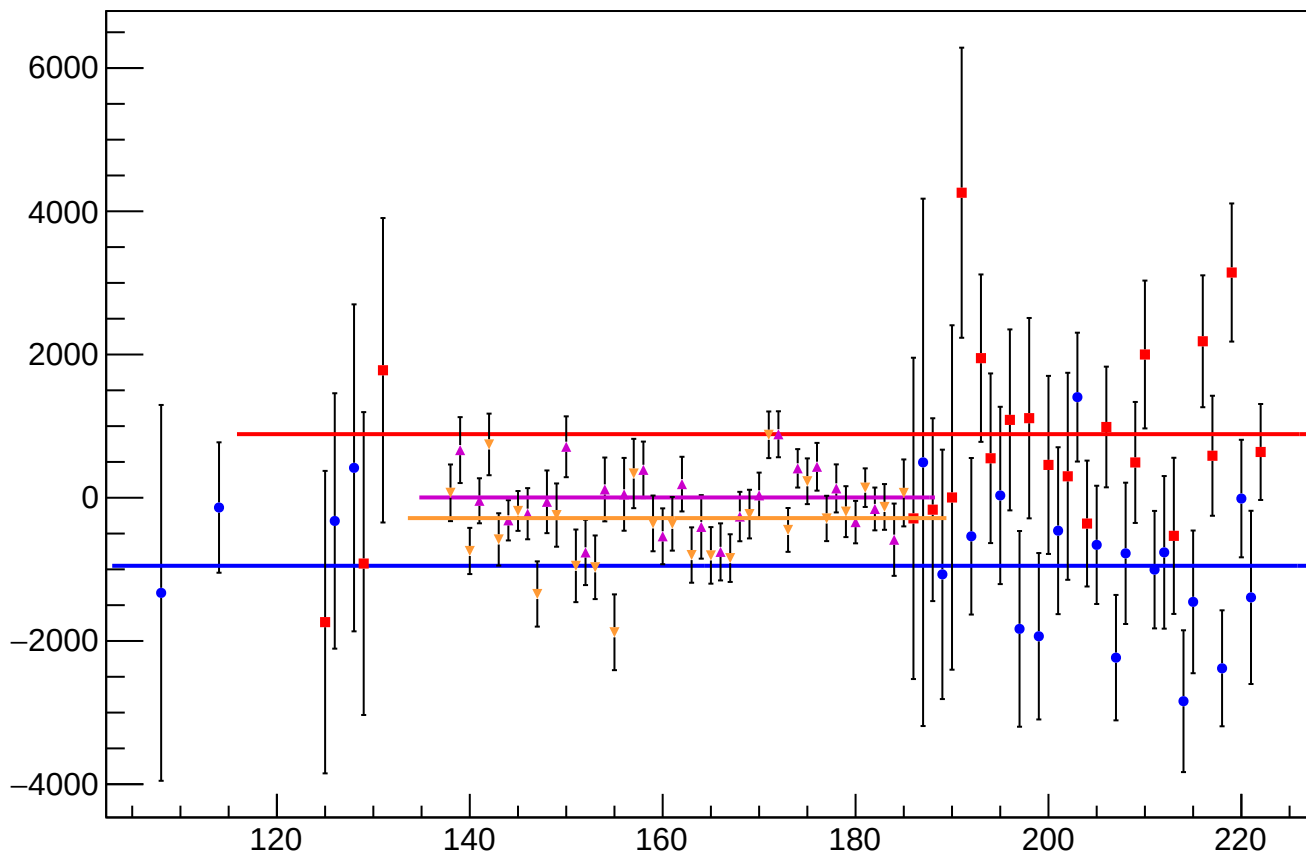
Right: 77.785+/-0.009 χ^2/NDF : 2083059.7/72

In: 69.767+/-0.008 χ^2/NDF : 1759222.1/57

Out: 69.738+/-0.008 χ^2/NDF : 2100303.1/62

All: 69.752+/-0.006 χ^2/NDF : 3859531.8/120

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -950.106 $\pm$ 230.105 χ^2 /NDF: 21.2/21

Left Out: -284.304 $\pm$ 72.732 χ^2 /NDF:55.1/24

Right Out: 888.080 $\pm$ 239.758 χ^2 /NDF: 20.4/21

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

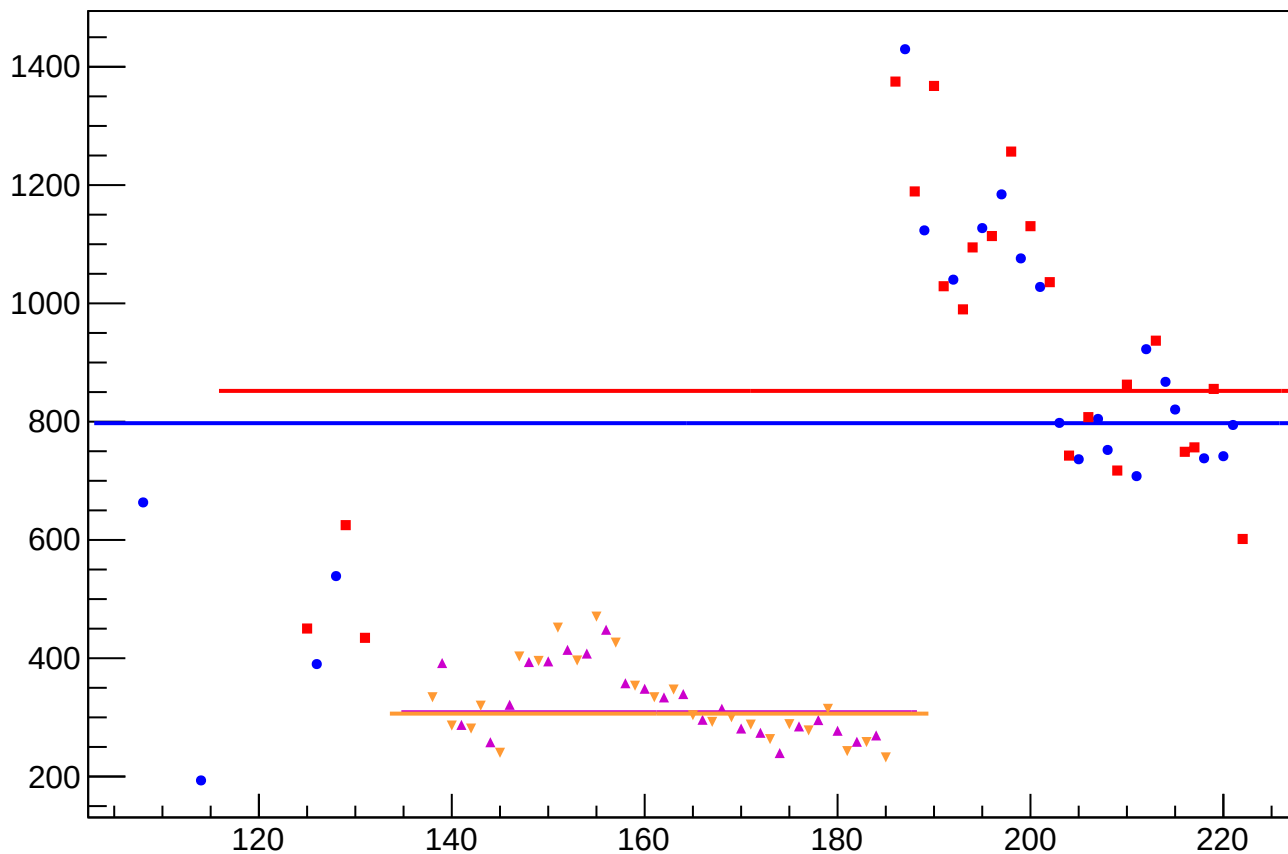
Right: -68.762 $\pm$ 166.016 χ^2 /NDF: 72.2/43

In: -87.779 $\pm$ 71.380 χ^2 /NDF:69.1/44

Out: -185.506 $\pm$ 69.600 χ^2 /NDF:97.3/46

All: -137.876 $\pm$ 49.832 χ^2 /NDF: 167.4/91

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 797.446 $\pm$ 0.163 χ^2 /NDF: 1836255.5/21

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF:1215669.9/24

Right Out: 852.012 $\pm$ 0.170 χ^2 /NDF: 1455706.1/21

Left In: 308.727 $\pm$ 0.053 χ^2 /NDF:1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2 /NDF: 2219640.0/47

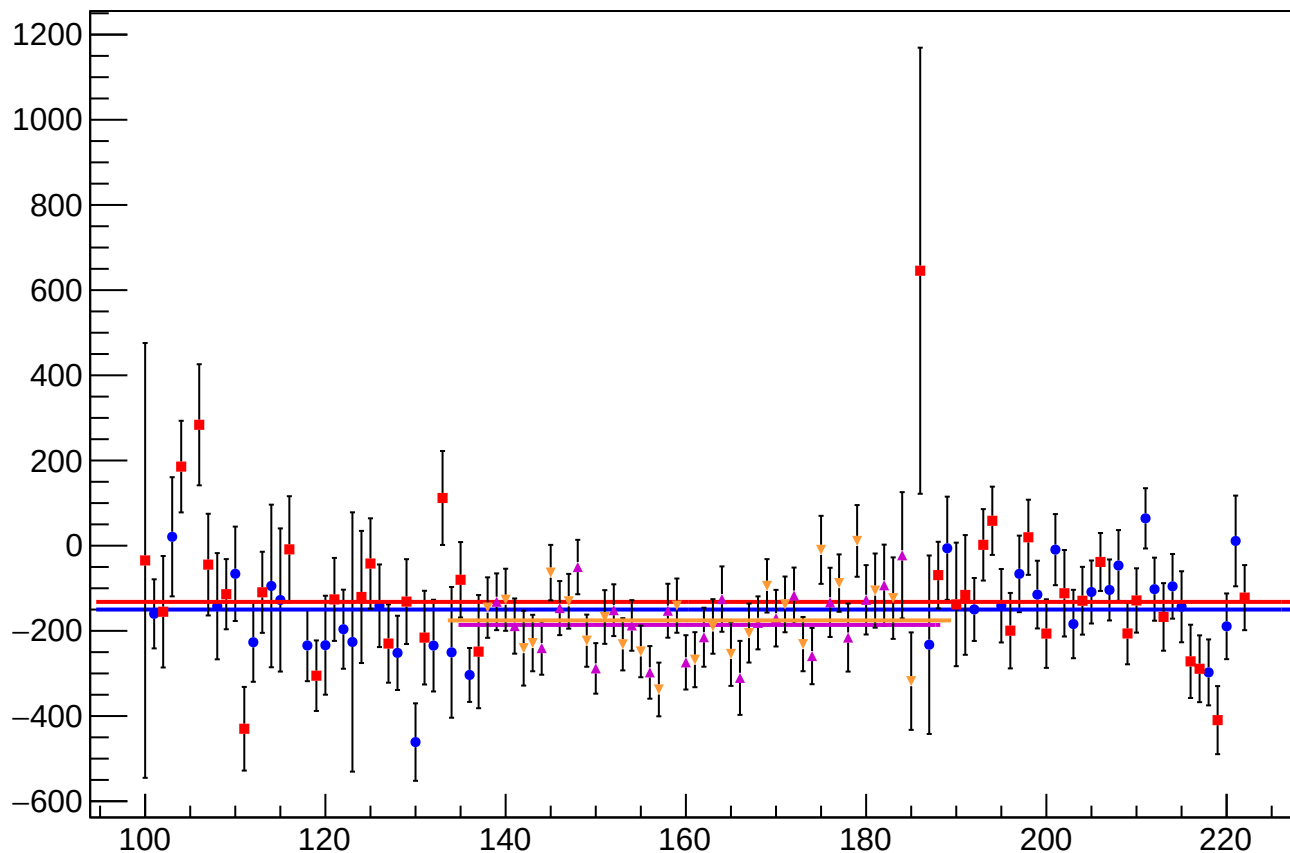
Right: 823.608 $\pm$ 0.117 χ^2 /NDF: 3345886.3/43

In: 355.755 $\pm$ 0.050 χ^2 /NDF:10992917.6/44

Out: 352.345 $\pm$ 0.049 χ^2 /NDF:12157264.7/46

All: 354.007 $\pm$ 0.035 χ^2 /NDF: 23152522.5/92

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -149.952 $\pm$ 15.354 χ^2/NDF : 48.9/34

Left Out: -175.471 $\pm$ 13.846 χ^2/NDF : 34.6/24

Right Out: -132.015 $\pm$ 15.359 χ^2/NDF : 78.4/37

Left In: -186.047 $\pm$ 14.315 χ^2/NDF : 23.6/22

Left: -180.583 $\pm$ 9.952 χ^2/NDF : 58.5/47

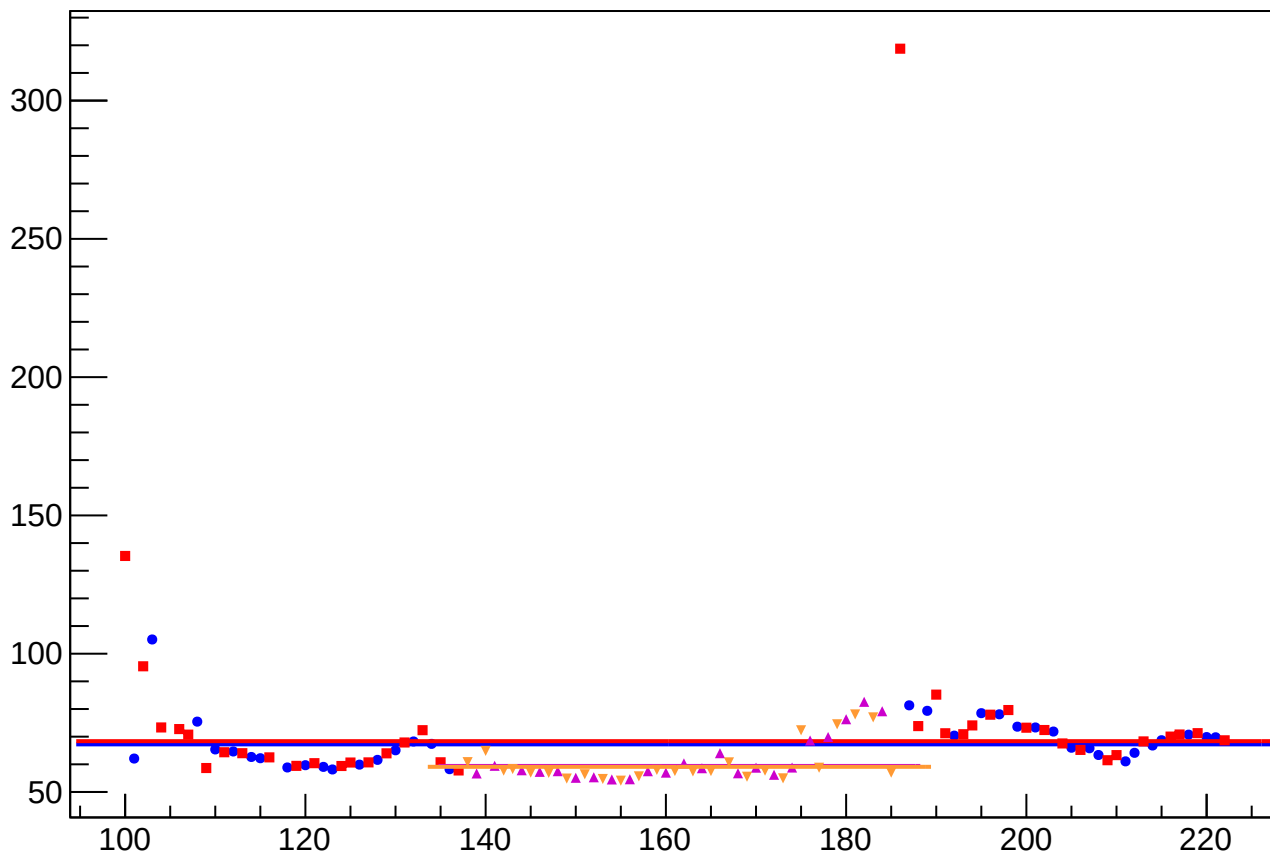
Right: -140.987 $\pm$ 10.859 χ^2/NDF : 128.0/72

In: -169.262 $\pm$ 10.470 χ^2/NDF : 75.4/57

Out: -155.989 $\pm$ 10.284 χ^2/NDF : 117.4/62

All: -162.506 $\pm$ 7.337 χ^2/NDF : 193.7/120

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.213 $\pm$ 0.011 χ^2 /NDF: 434236.9/34

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.373 $\pm$ 0.011 χ^2 /NDF: 878369.4/37

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

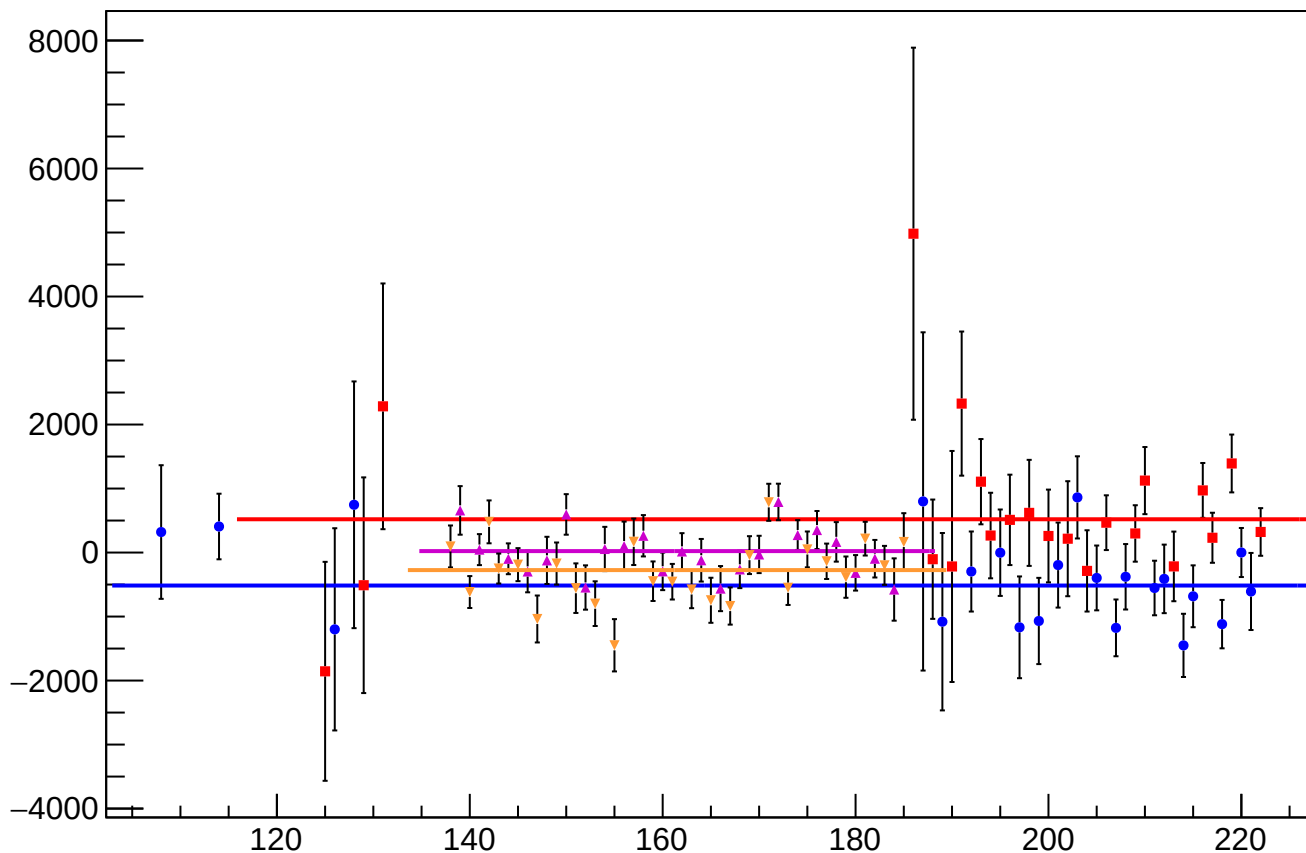
Right: 67.793 $\pm$ 0.008 χ^2 /NDF: 1318308.3/72

In: 63.039 $\pm$ 0.007 χ^2 /NDF: 1083636.4/57

Out: 63.257 $\pm$ 0.007 χ^2 /NDF: 1650402.3/62

All: 63.150 $\pm$ 0.005 χ^2 /NDF: 2734478.9/120

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -515.375 $\pm$ 123.054 χ^2/NDF : 22.3/21

Left Out: -274.091 $\pm$ 60.799 χ^2/NDF : 53.9/24

Right Out: 520.002 $\pm$ 130.592 χ^2/NDF : 20.6/21

Left In: 22.631 $\pm$ 63.643 χ^2/NDF : 28.9/22

Left: -132.507 $\pm$ 43.963 χ^2/NDF : 94.2/47

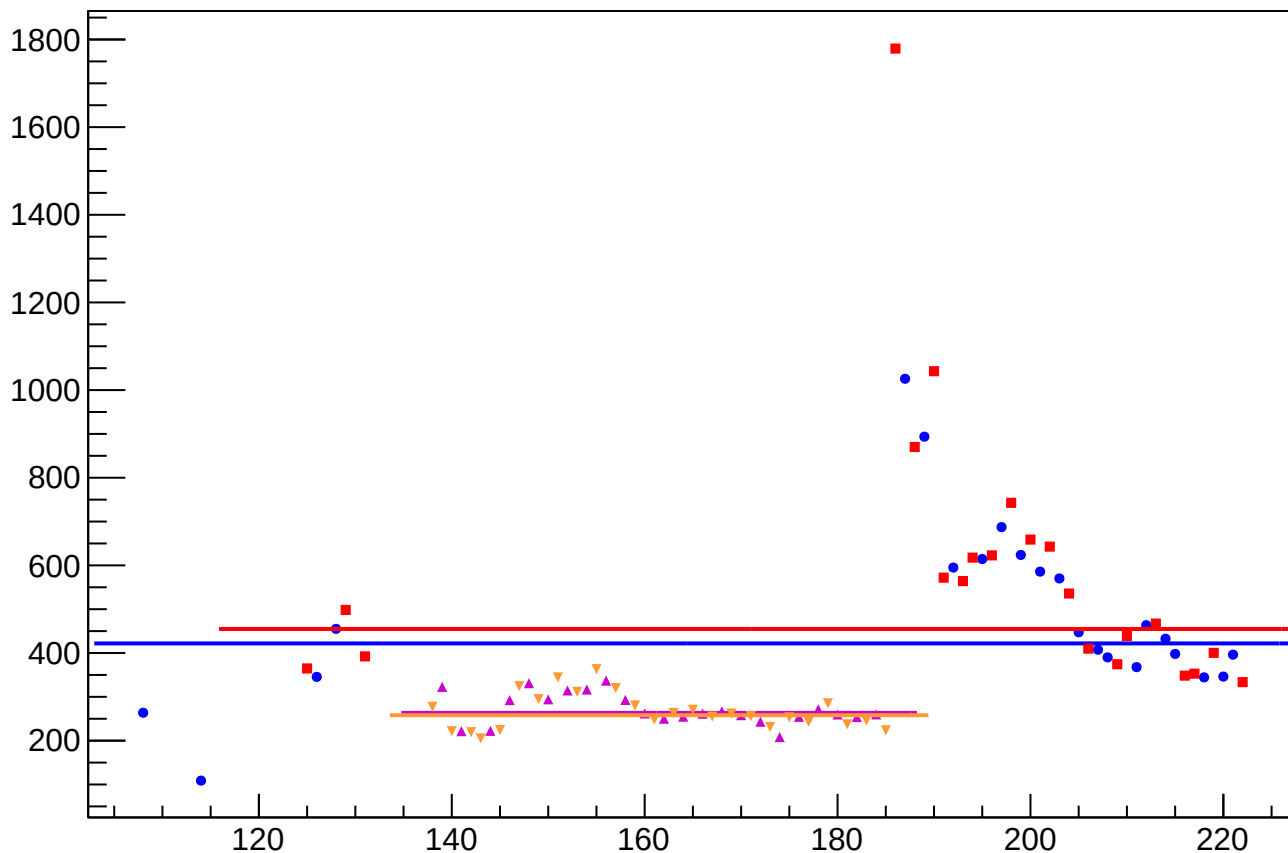
Right: -28.430 $\pm$ 89.559 χ^2/NDF : 76.2/43

In: -90.910 $\pm$ 56.530 χ^2/NDF : 66.3/44

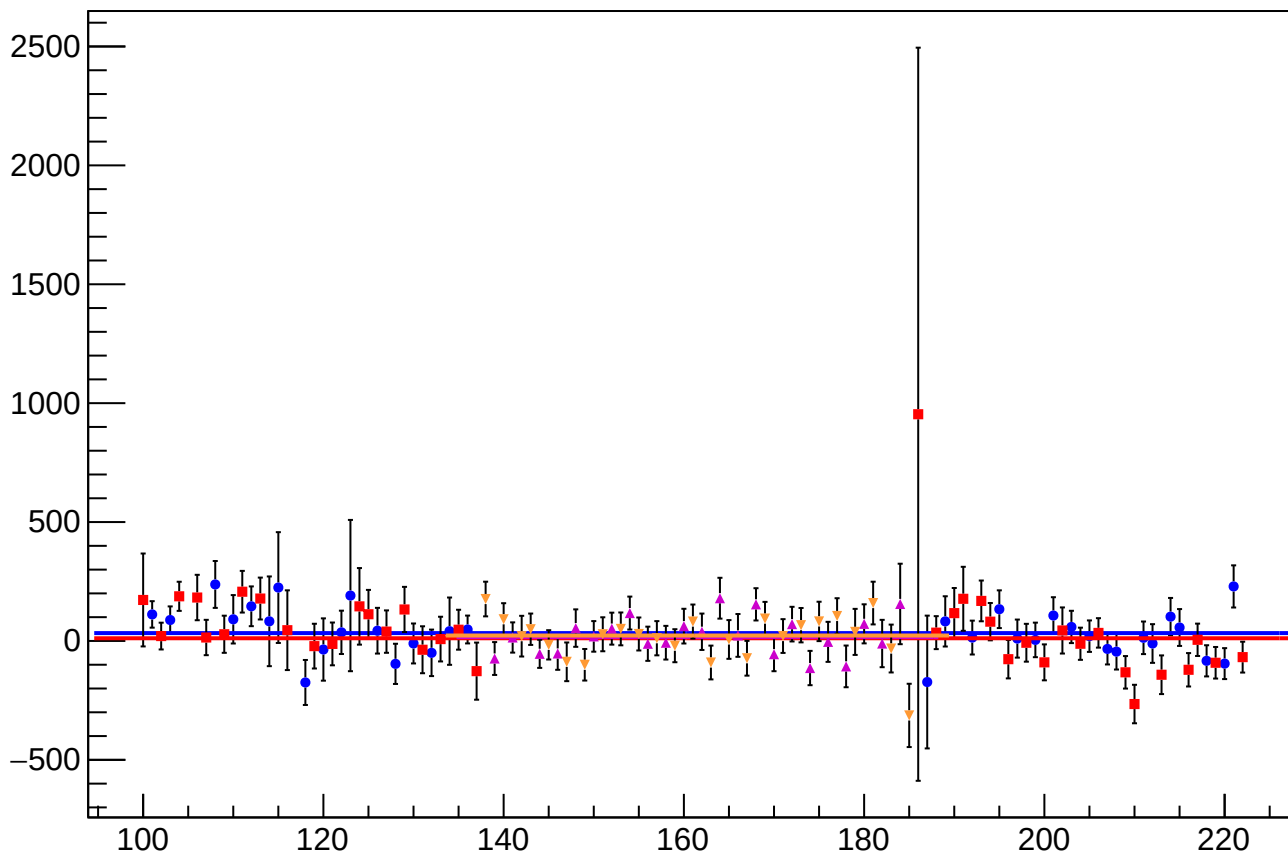
Out: -132.632 $\pm$ 55.118 χ^2/NDF : 104.9/46

All: -112.298 $\pm$ 39.464 χ^2/NDF : 171.4/91

asym_sam8_correction_rms vs Slug, Sign Corrected



reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 33.031 $\pm$ 13.774 χ^2 /NDF: 38.0/34

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 11.300 $\pm$ 13.464 χ^2 /NDF: 63.9/37

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

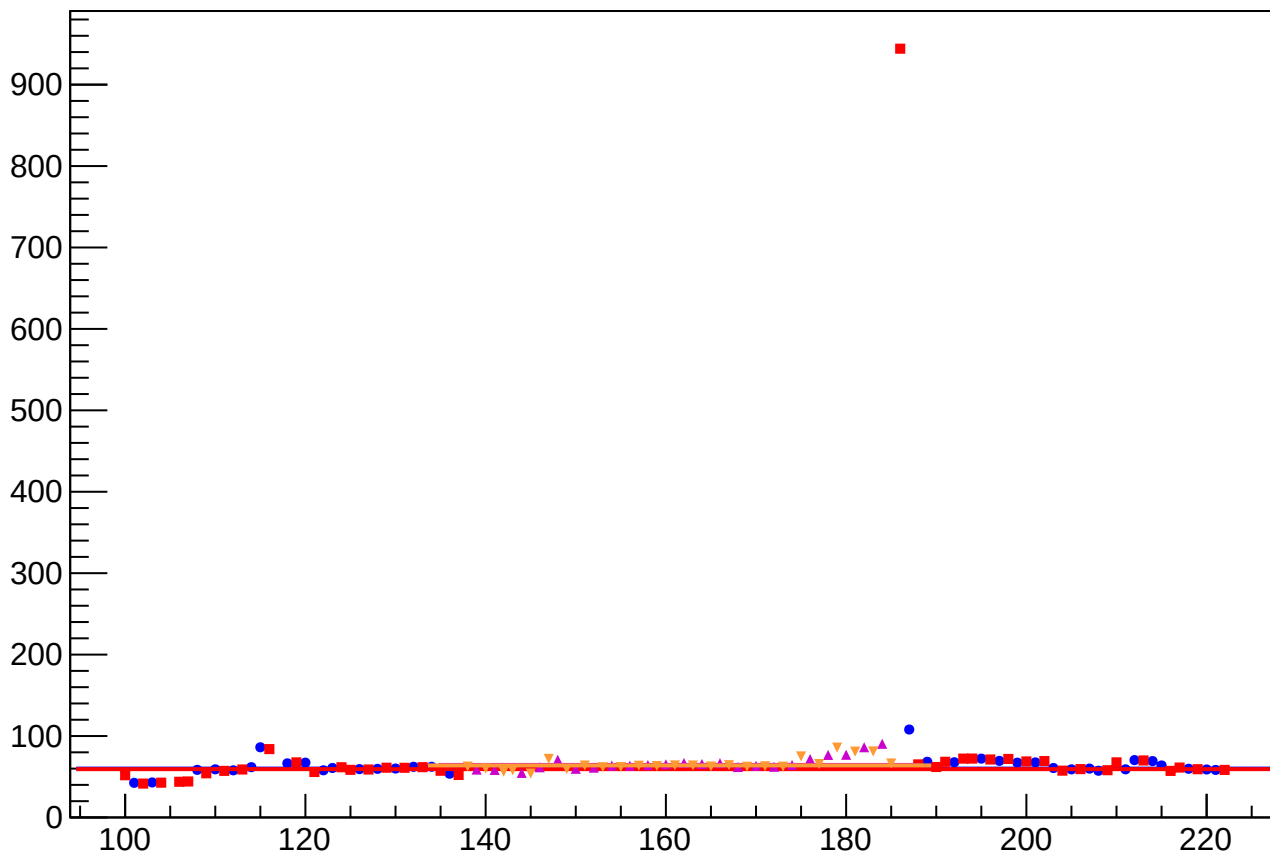
Right: 21.919 $\pm$ 9.628 χ^2 /NDF: 103.1/72

In: 25.620 $\pm$ 10.305 χ^2 /NDF:61.9/57

Out: 16.475 $\pm$ 10.010 χ^2 /NDF:93.2/62

All: 20.915 $\pm$ 7.180 χ^2 /NDF: 155.6/120

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.992 $\pm$ 0.010 χ^2 /NDF: 724123.7/34

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.338 $\pm$ 0.010 χ^2 /NDF: 1556838.1/37

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

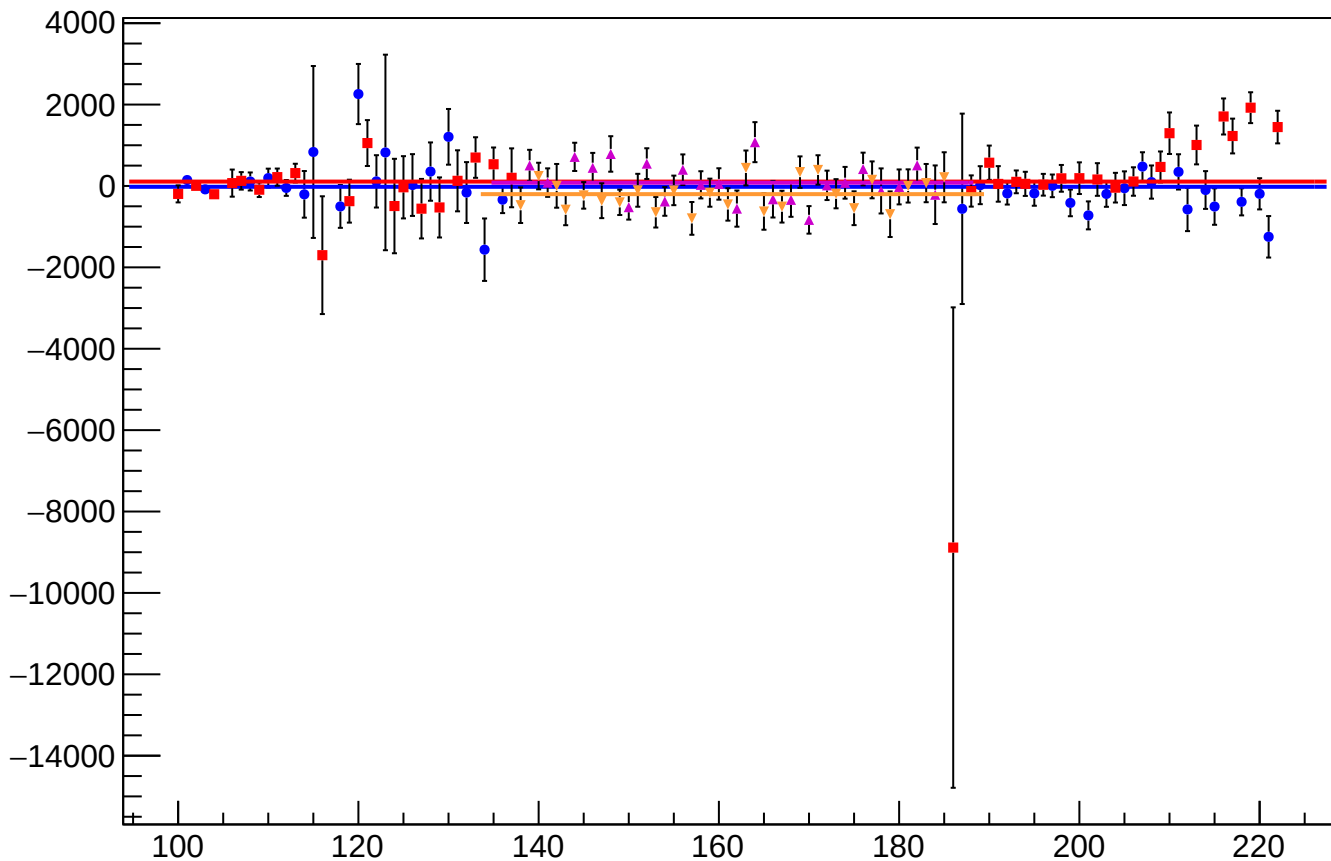
Right: 59.658 $\pm$ 0.007 χ^2 /NDF: 2283270.5/72

In: 61.982 $\pm$ 0.007 χ^2 /NDF: 1189388.9/57

Out: 61.387 $\pm$ 0.007 χ^2 /NDF: 2055836.9/62

All: 61.676 $\pm$ 0.005 χ^2 /NDF: 3248649.5/120

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -20.677 ± 44.550 $\chi^2/\text{NDF}: 44.1/34$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: 107.616 ± 45.422 $\chi^2/\text{NDF}: 92.9/37$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

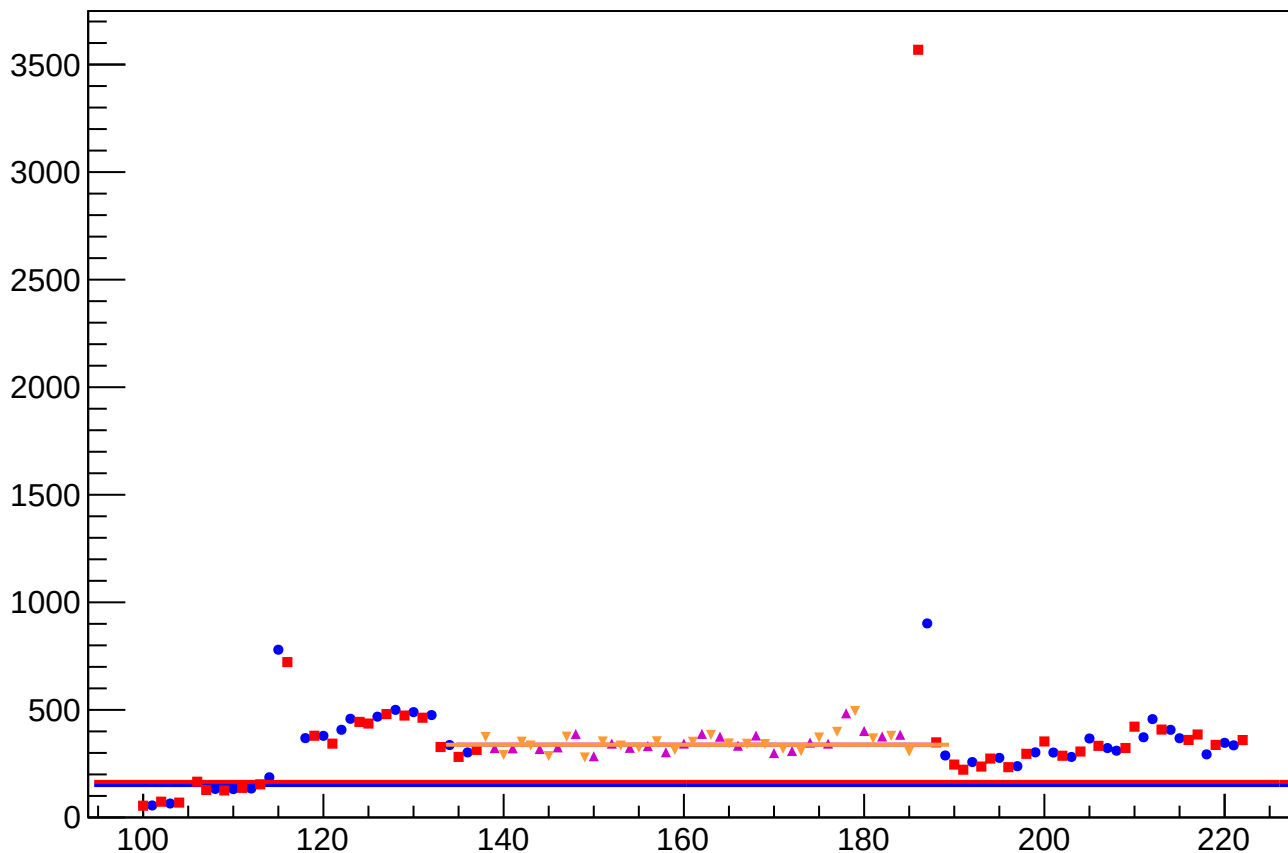
Right: 42.227 ± 31.806 $\chi^2/\text{NDF}: 141.1/72$

In: 2.359 ± 39.122 $\chi^2/\text{NDF}: 78.7/57$

Out: 31.715 ± 39.445 $\chi^2/\text{NDF}: 123.9/62$

All: 16.917 ± 27.777 $\chi^2/\text{NDF}: 202.9/120$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 150.559+/-0.032 χ^2/NDF : 15112129.2/34

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 165.307+/-0.032 χ^2/NDF : 13633544.0/37

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

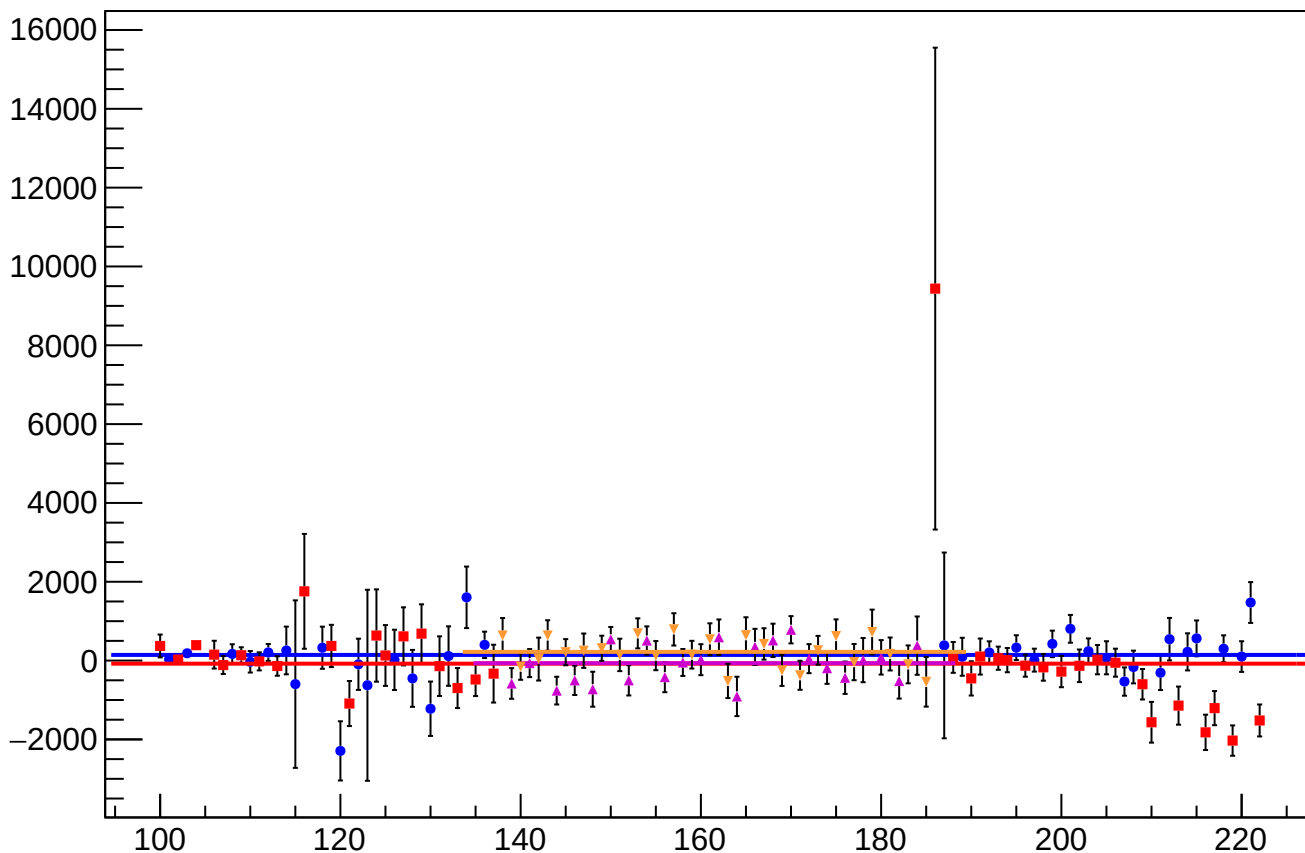
Right: 157.790+/-0.022 χ^2/NDF : 28853132.4/72

In: 193.583+/-0.028 χ^2/NDF : 23700237.5/57

Out: 207.799+/-0.028 χ^2/NDF : 21251010.6/62

All: 200.633+/-0.020 χ^2/NDF : 45082211.2/12

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 143.932 $\pm$ 51.855 χ^2 /NDF: 39.7/34

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: -78.075 $\pm$ 50.296 χ^2 /NDF: 109.7/37

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

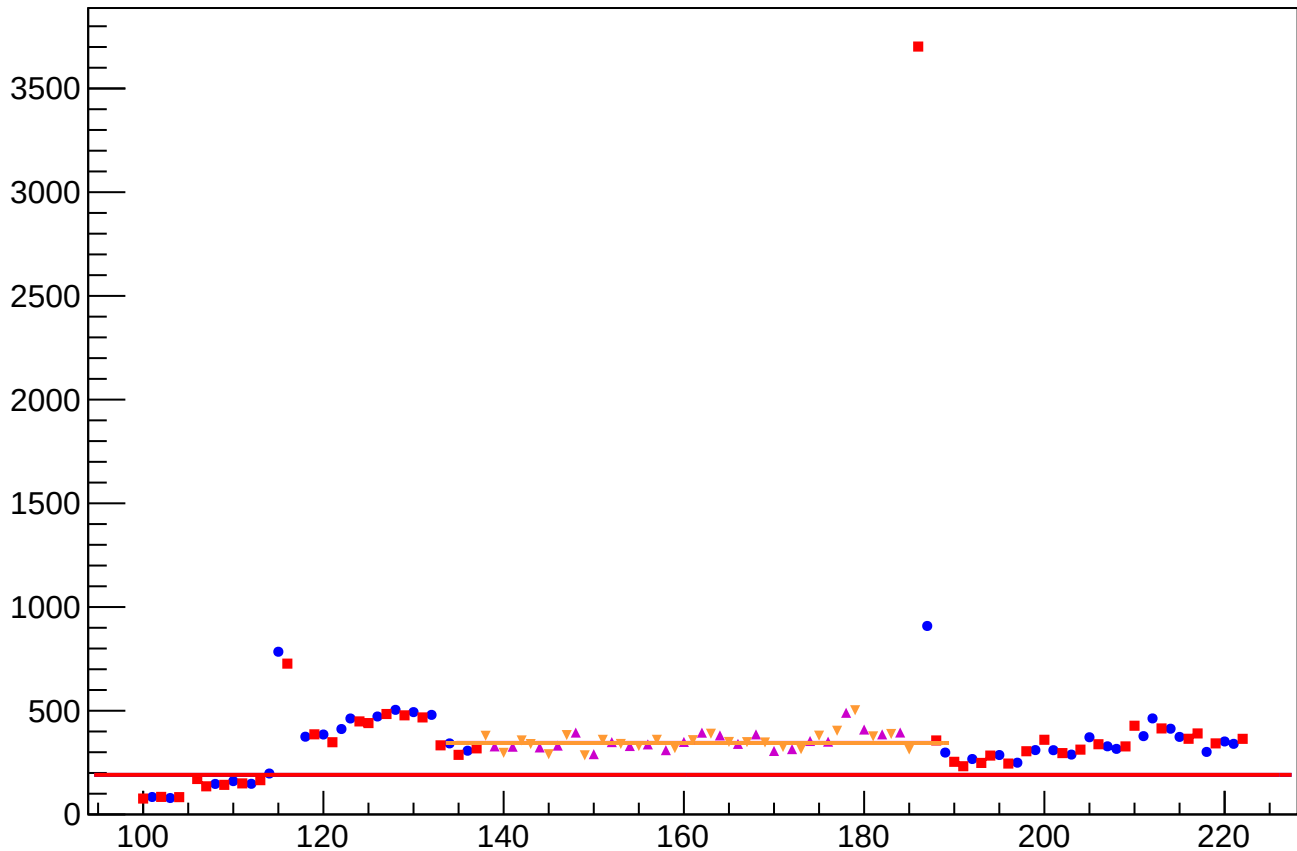
Right: 29.542 $\pm$ 36.103 χ^2 /NDF: 158.9/72

In: 85.457 $\pm$ 44.025 χ^2 /NDF:78.2/57

Out: 5.146 $\pm$ 42.732 χ^2 /NDF:139.3/62

All: 44.104 $\pm$ 30.663 χ^2 /NDF: 219.2/120

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 190.698 $\pm$ 0.037 χ^2 /NDF: 11221936.4/34

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 191.023 $\pm$ 0.036 χ^2 /NDF: 11325208.0/37

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF:427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

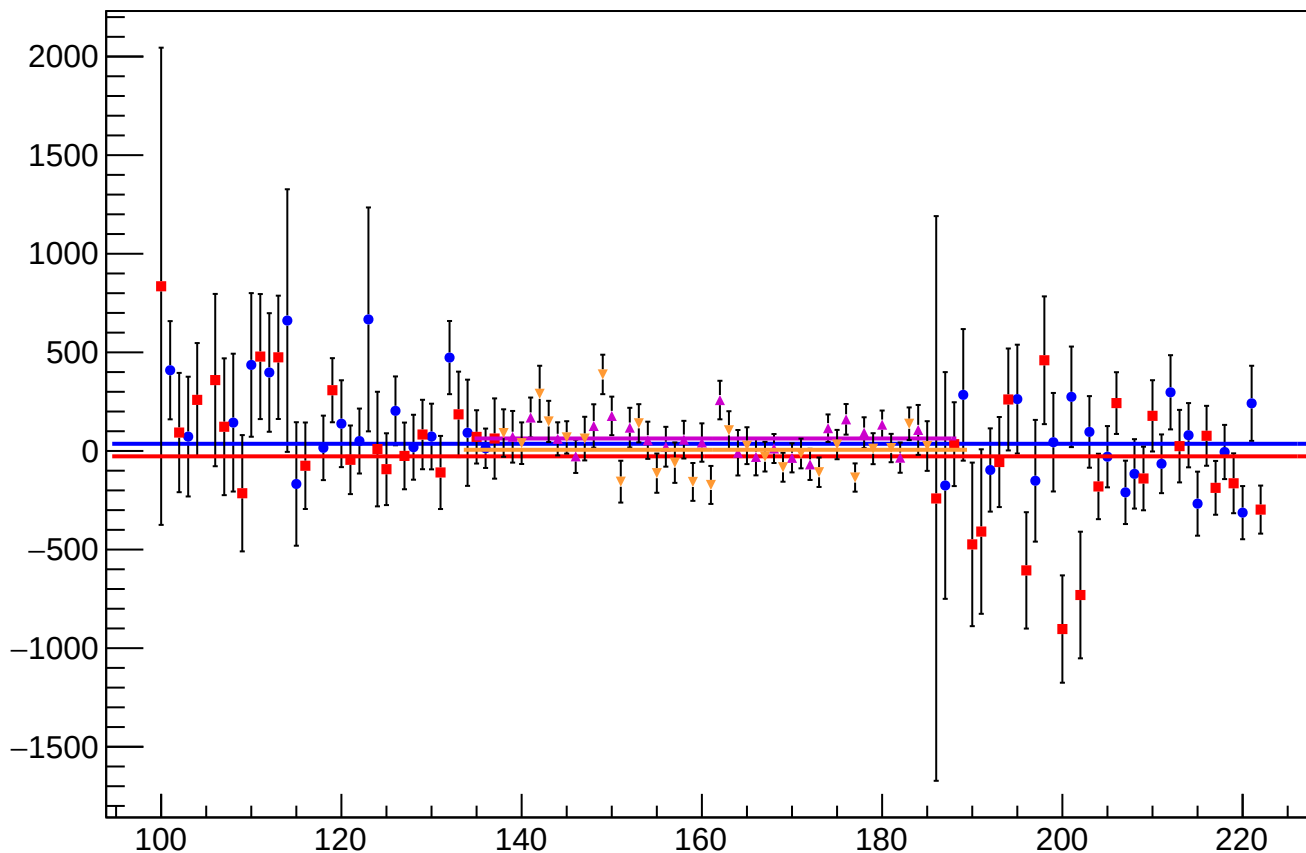
Right: 190.866 $\pm$ 0.026 χ^2 /NDF: 22547184.8/72

In: 233.790 $\pm$ 0.031 χ^2 /NDF:16596075.2/57

Out: 233.720 $\pm$ 0.030 χ^2 /NDF:16994455.4/62

All: 233.754 $\pm$ 0.022 χ^2 /NDF: 33590533.2/12

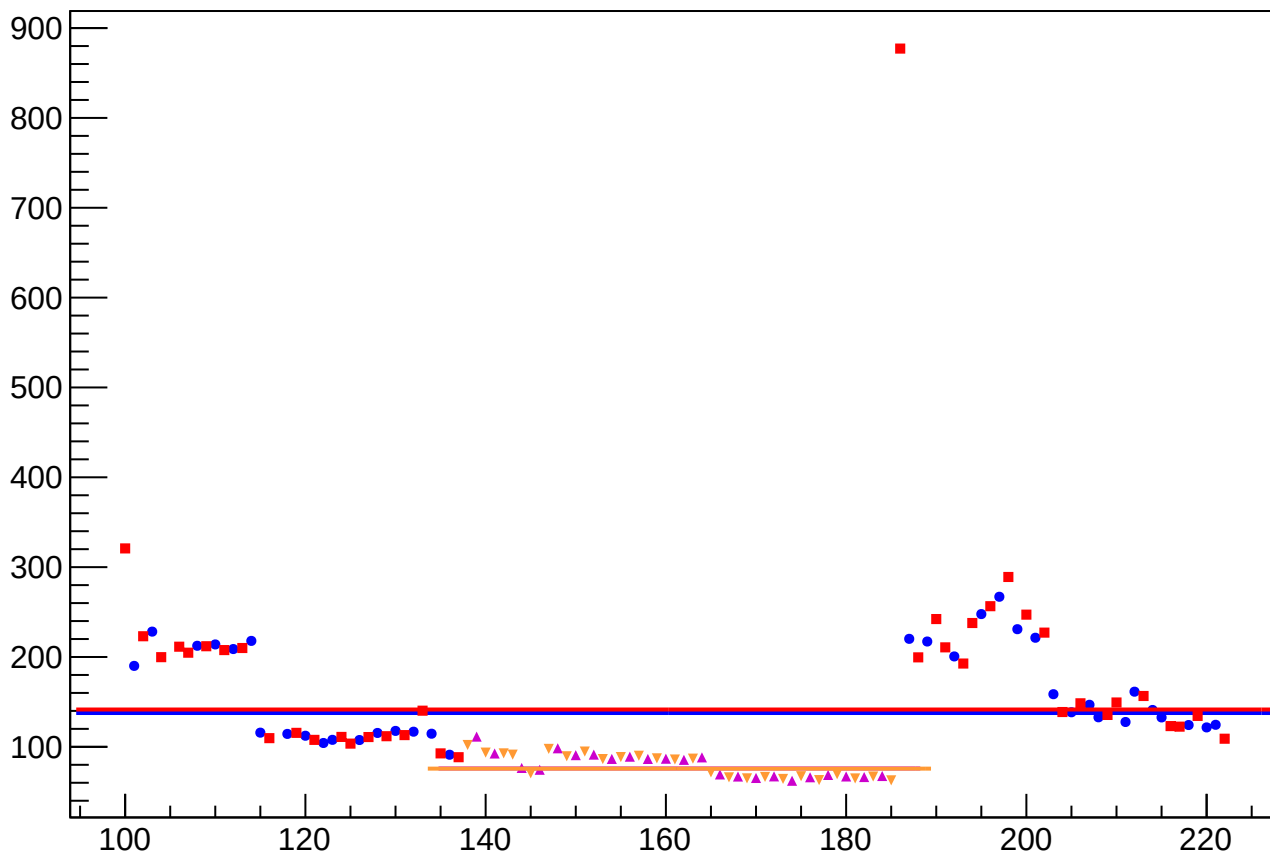
reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 36.381 ± 32.793 $\chi^2/\text{NDF}: 34.7/34$
 Left Out: 6.020 ± 17.910 $\chi^2/\text{NDF}: 46.0/24$
 Right Out: -27.269 ± 33.419 $\chi^2/\text{NDF}: 52.8/37$
 Left In: 63.279 ± 18.447 $\chi^2/\text{NDF}: 19.8/22$

Left: 33.804 ± 12.850 $\chi^2/\text{NDF}: 70.8/47$
 Right: 5.158 ± 23.406 $\chi^2/\text{NDF}: 89.3/72$
 In: 56.814 ± 16.077 $\chi^2/\text{NDF}: 55.1/57$
 Out: -1.408 ± 15.786 $\chi^2/\text{NDF}: 99.5/62$
 All: 27.170 ± 11.264 $\chi^2/\text{NDF}: 161.3/120$

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 137.643 $\pm$ 0.023 χ^2 /NDF: 2981318.8/34

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 141.547 $\pm$ 0.024 χ^2 /NDF: 4160368.0/37

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

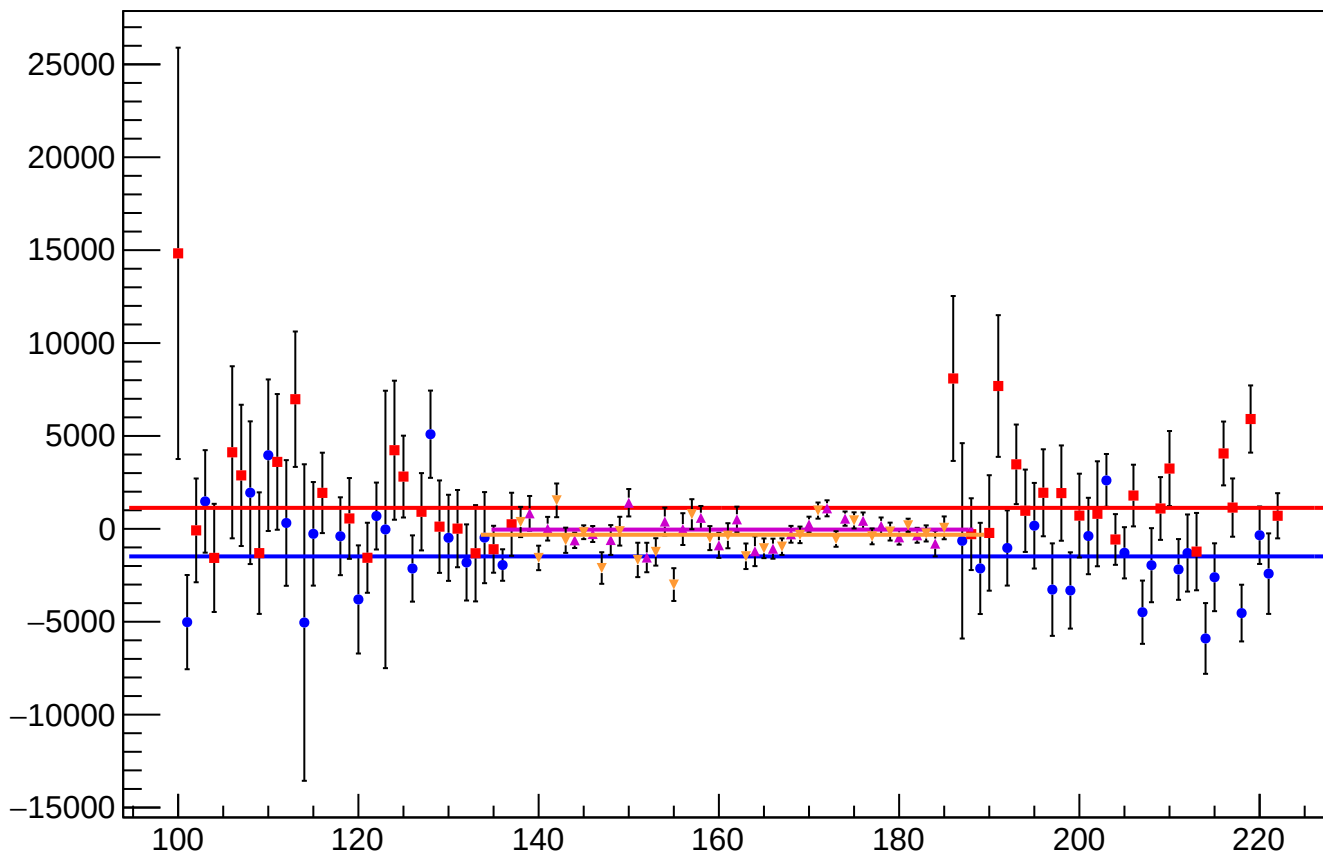
Right: 139.558 $\pm$ 0.017 χ^2 /NDF: 7155586.8/72

In: 90.748 $\pm$ 0.011 χ^2 /NDF:9196804.1/57

Out: 90.425 $\pm$ 0.011 χ^2 /NDF:11122283.1/62

All: 90.584 $\pm$ 0.008 χ^2 /NDF: 20319497.8/120

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1483.586 ± 334.772 $\chi^2/\text{NDF}: 41.8/34$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 1129.070 ± 345.716 $\chi^2/\text{NDF}: 36.8/37$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

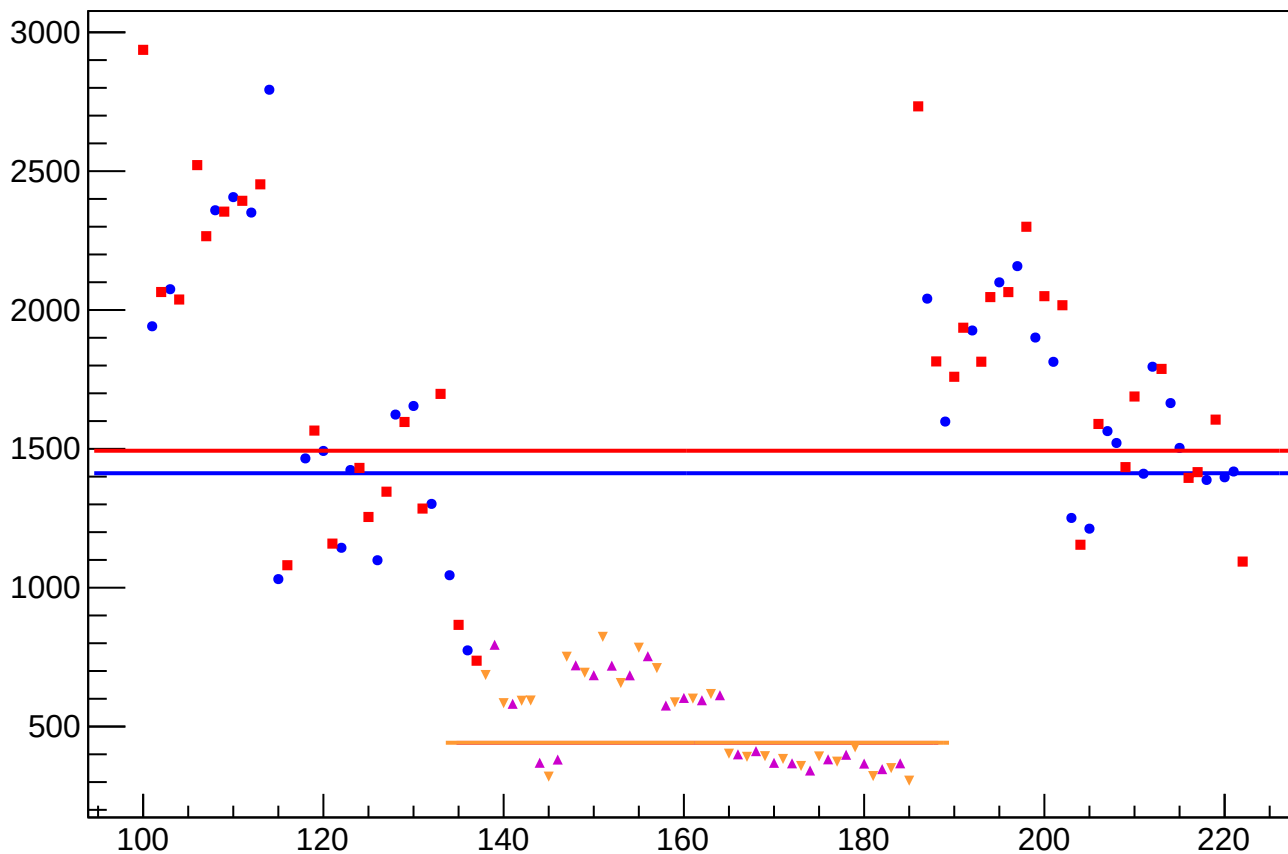
Right: -219.268 ± 240.496 $\chi^2/\text{NDF}: 108.0/72$

In: -181.680 ± 104.719 $\chi^2/\text{NDF}: 93.3/57$

Out: -189.365 ± 103.099 $\chi^2/\text{NDF}: 102.7/62$

All: -185.583 ± 73.468 $\chi^2/\text{NDF}: 196.0/120$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1412.220+/-0.237 χ^2/NDF : 2930872.7/34

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1493.208+/-0.244 χ^2/NDF : 3220942.5/37

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

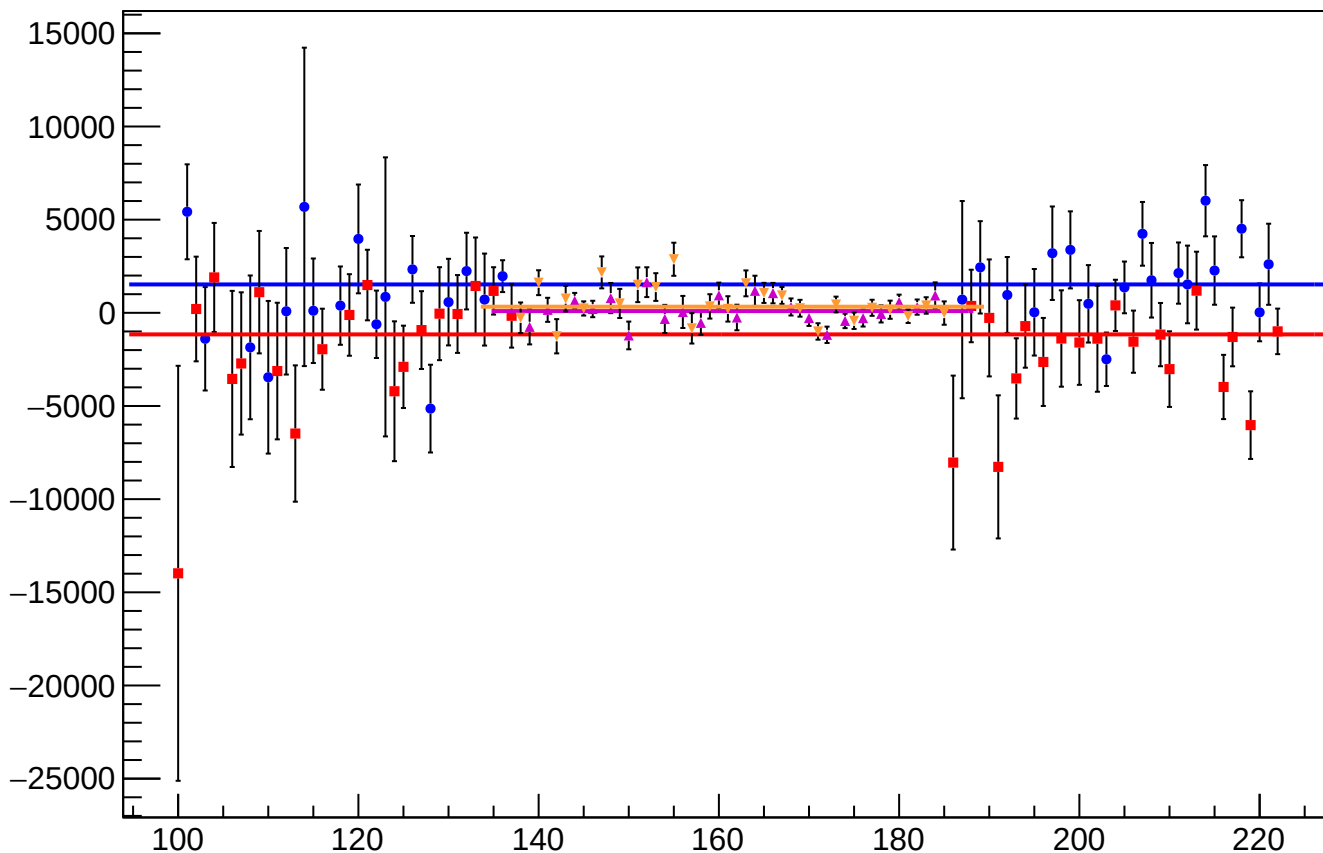
Right: 1451.411+/-0.170 χ^2/NDF : 6208458.9/72

In: 536.041+/-0.074 χ^2/NDF : 20713727.7/57

Out: 535.201+/-0.073 χ^2/NDF : 23246982.3/62

All: 535.614+/-0.052 χ^2/NDF : 43960775.5/12

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1524.104 $\pm$ 336.719 χ^2 /NDF: 41.0/34

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -1157.225 $\pm$ 347.728 χ^2 /NDF: 36.1/37

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

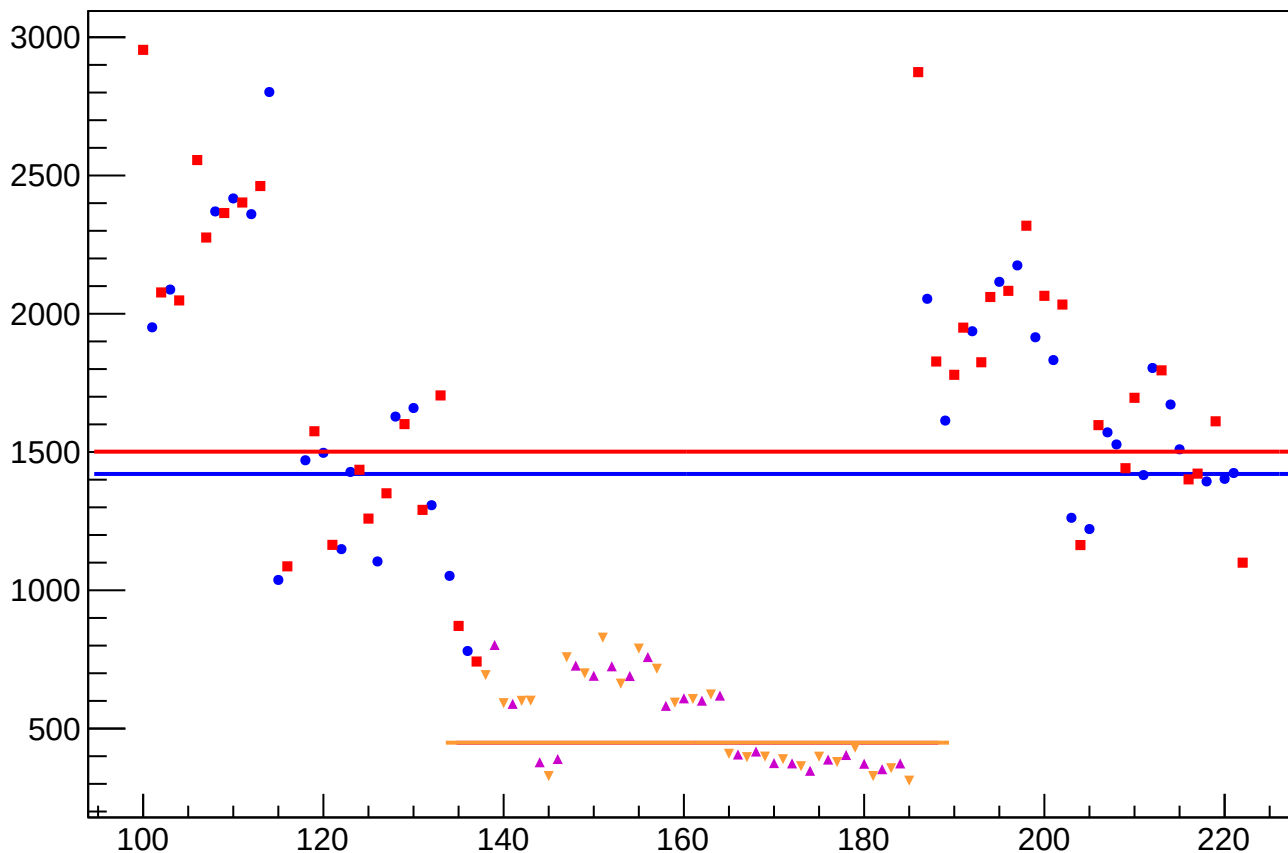
Right: 226.557 $\pm$ 241.895 χ^2 /NDF: 107.8/72

In: 235.748 $\pm$ 106.241 χ^2 /NDF:90.6/57

Out: 194.178 $\pm$ 104.590 χ^2 /NDF:100.4/62

All: 214.637 $\pm$ 74.533 χ^2 /NDF: 191.1/120

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1420.688 $\pm$ 0.238 χ^2/NDF : 2919486.8/34

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1501.344 $\pm$ 0.246 χ^2/NDF : 3240833.0/37

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

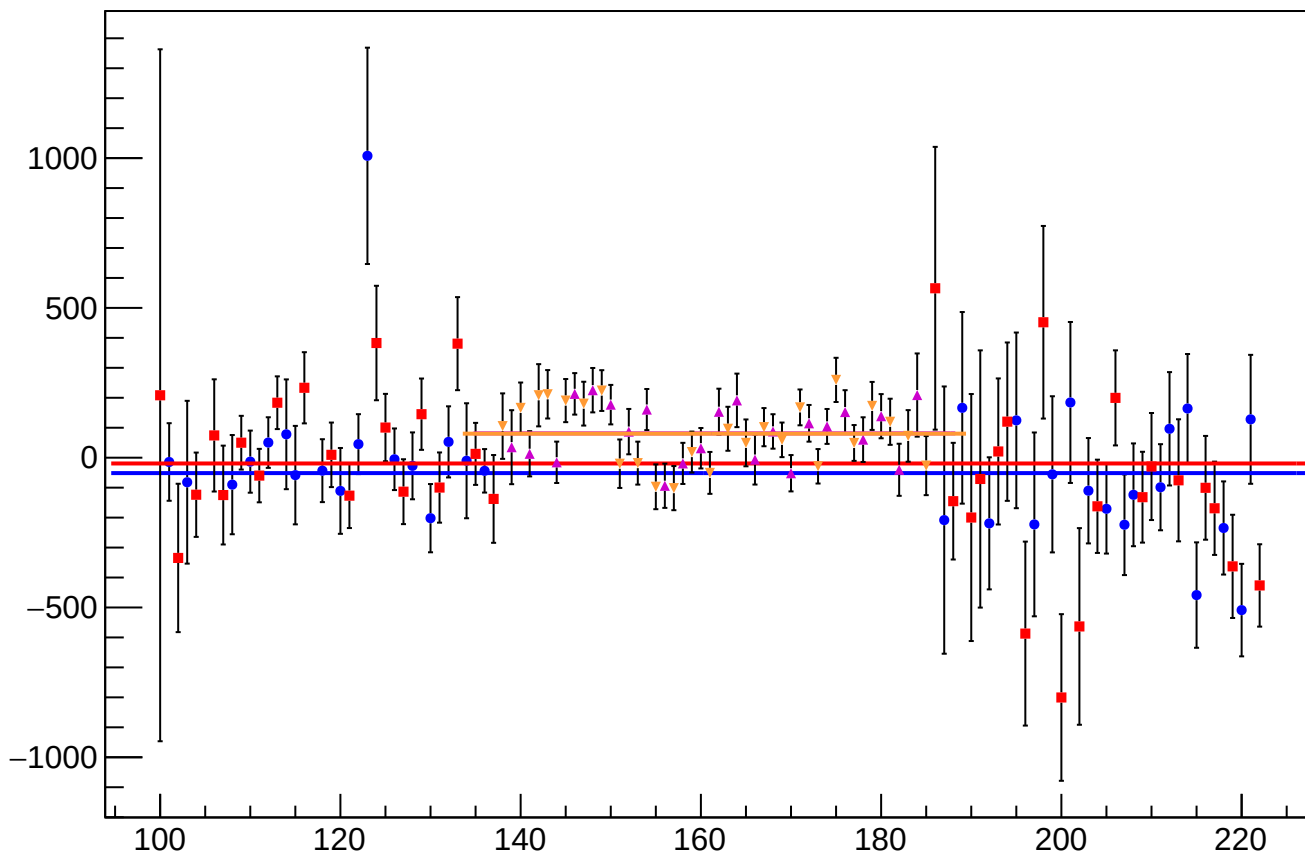
Right: 1459.719 $\pm$ 0.171 χ^2/NDF : 6215852.1/72

In: 545.109 $\pm$ 0.075 χ^2/NDF : 20475354.4/57

Out: 544.219 $\pm$ 0.074 χ^2/NDF : 22991107.7/62

All: 544.657 $\pm$ 0.053 χ^2/NDF : 43466533.4/12

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -51.425 ± 24.446 χ^2/NDF : 37.7/34

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: -19.296 ± 24.057 χ^2/NDF : 66.6/37

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

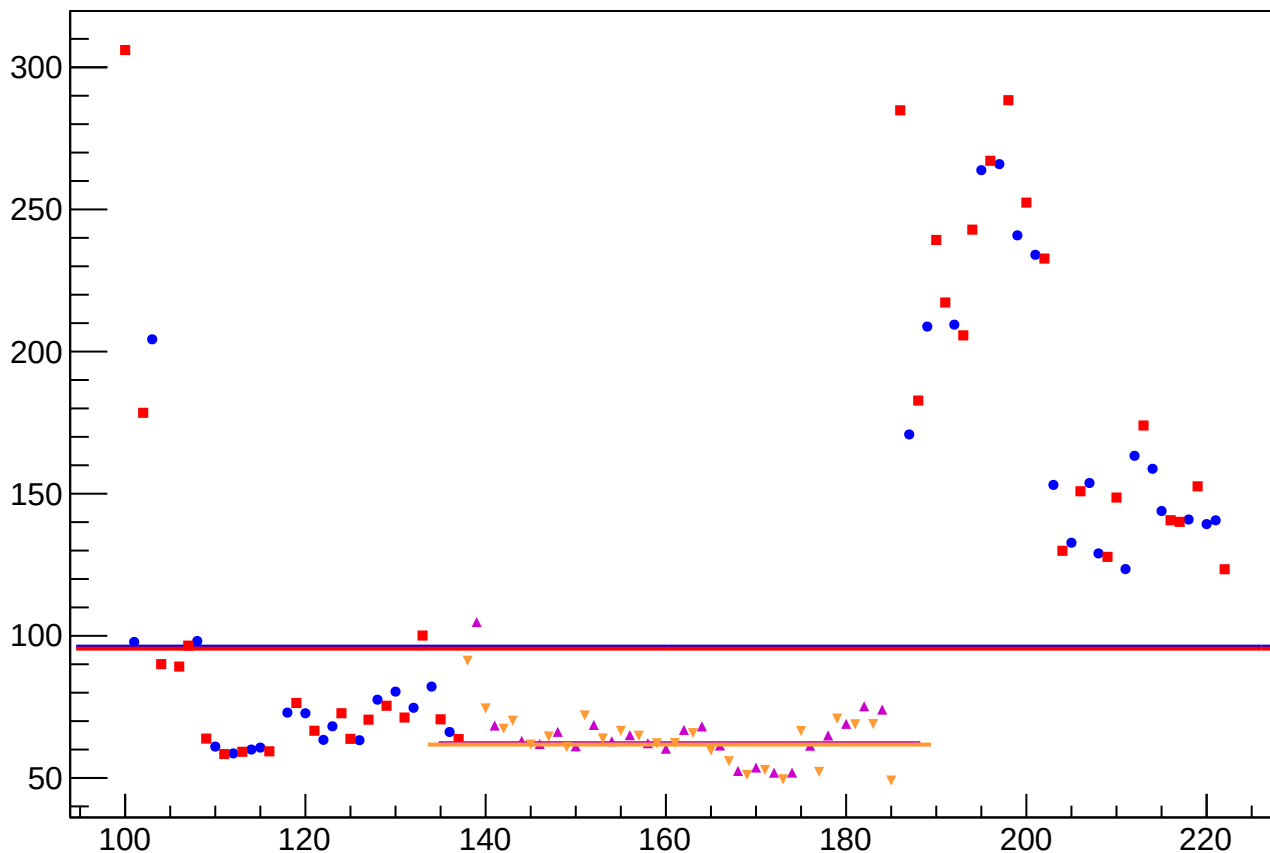
Right: -35.102 ± 17.147 χ^2/NDF : 105.2/72

In: 44.523 ± 12.850 χ^2/NDF : 94.3/57

Out: 53.418 ± 12.476 χ^2/NDF : 127.6/62

All: 49.102 ± 8.951 χ^2/NDF : 222.2/120

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 96.198 $\pm$ 0.017 χ^2 /NDF: 7203061.9/34

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 95.511 $\pm$ 0.017 χ^2 /NDF: 8267357.9/37

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

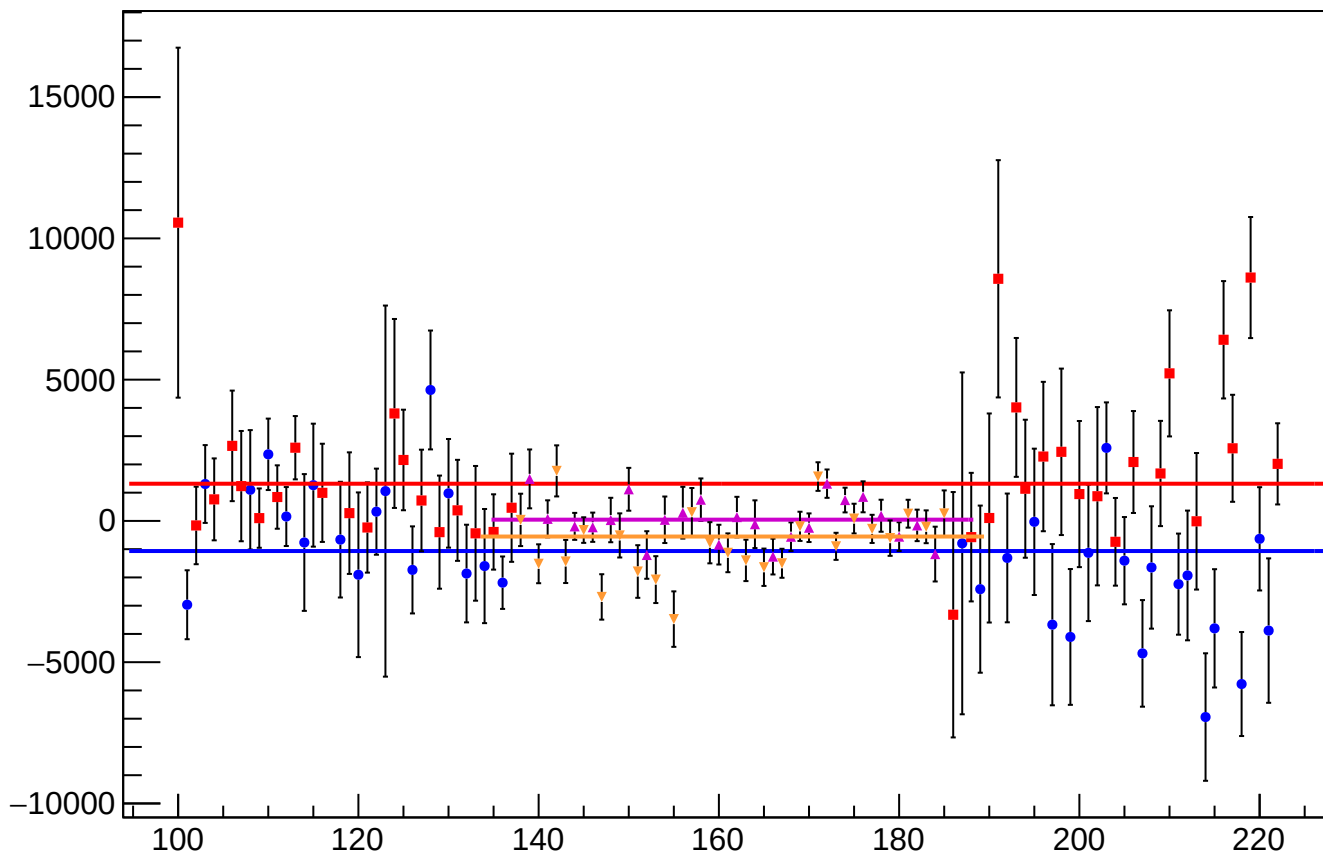
Right: 95.849 $\pm$ 0.012 χ^2 /NDF: 15471222.4/72

In: 71.630 $\pm$ 0.009 χ^2 /NDF: 10585319.4/57

Out: 70.838 $\pm$ 0.009 χ^2 /NDF: 11790444.0/62

All: 71.223 $\pm$ 0.006 χ^2 /NDF: 22379670.4/120

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1065.809 ± 305.118 $\chi^2/\text{NDF}: 56.4/34$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1316.716 ± 300.198 $\chi^2/\text{NDF}: 42.4/37$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

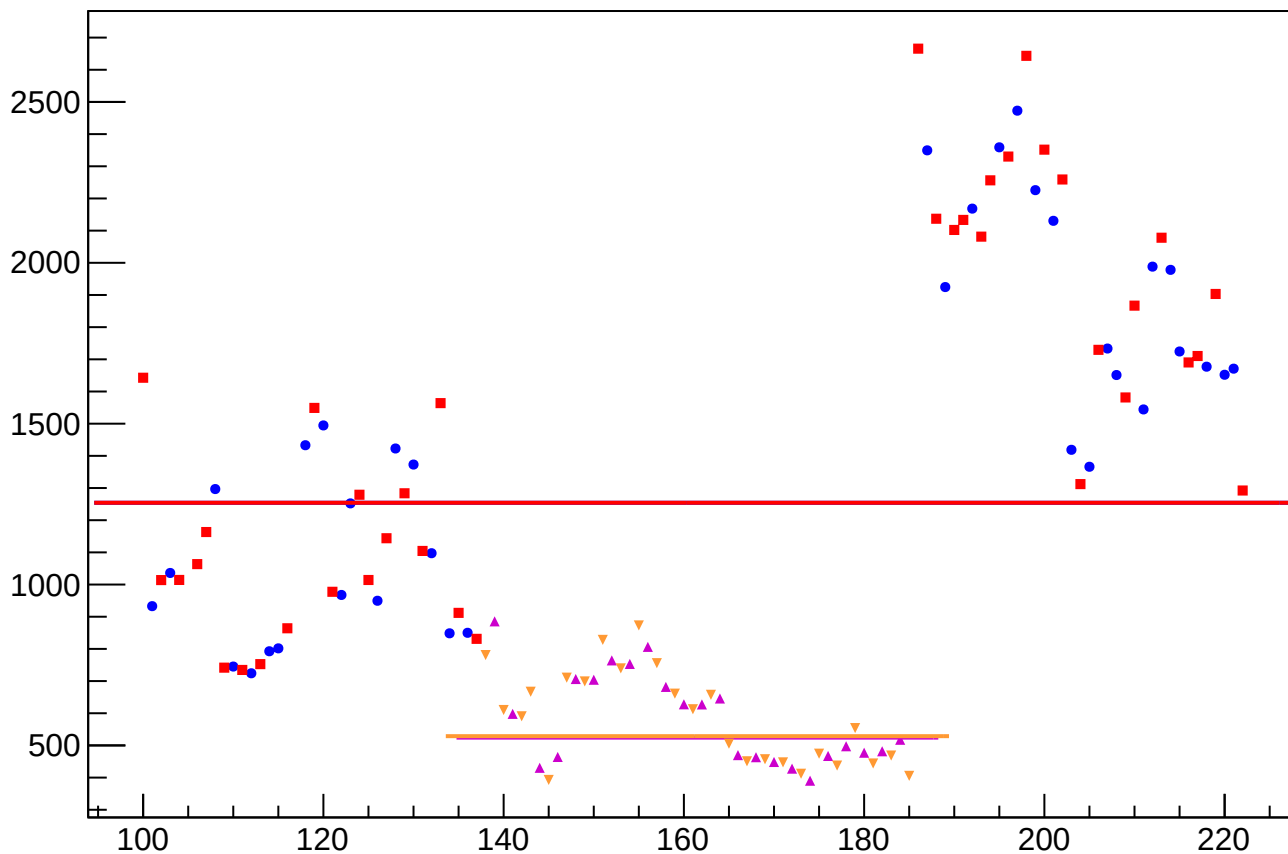
Right: 144.817 ± 213.990 $\chi^2/\text{NDF}: 129.8/72$

In: -124.014 ± 118.891 $\chi^2/\text{NDF}: 97.2/57$

Out: -268.824 ± 116.949 $\chi^2/\text{NDF}: 140.6/62$

All: -197.611 ± 83.373 $\chi^2/\text{NDF}: 238.5/120$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1254.138 $\pm$ 0.216 χ^2 /NDF: 4717902.1/34

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1254.233 $\pm$ 0.212 χ^2 /NDF: 5557010.1/37

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

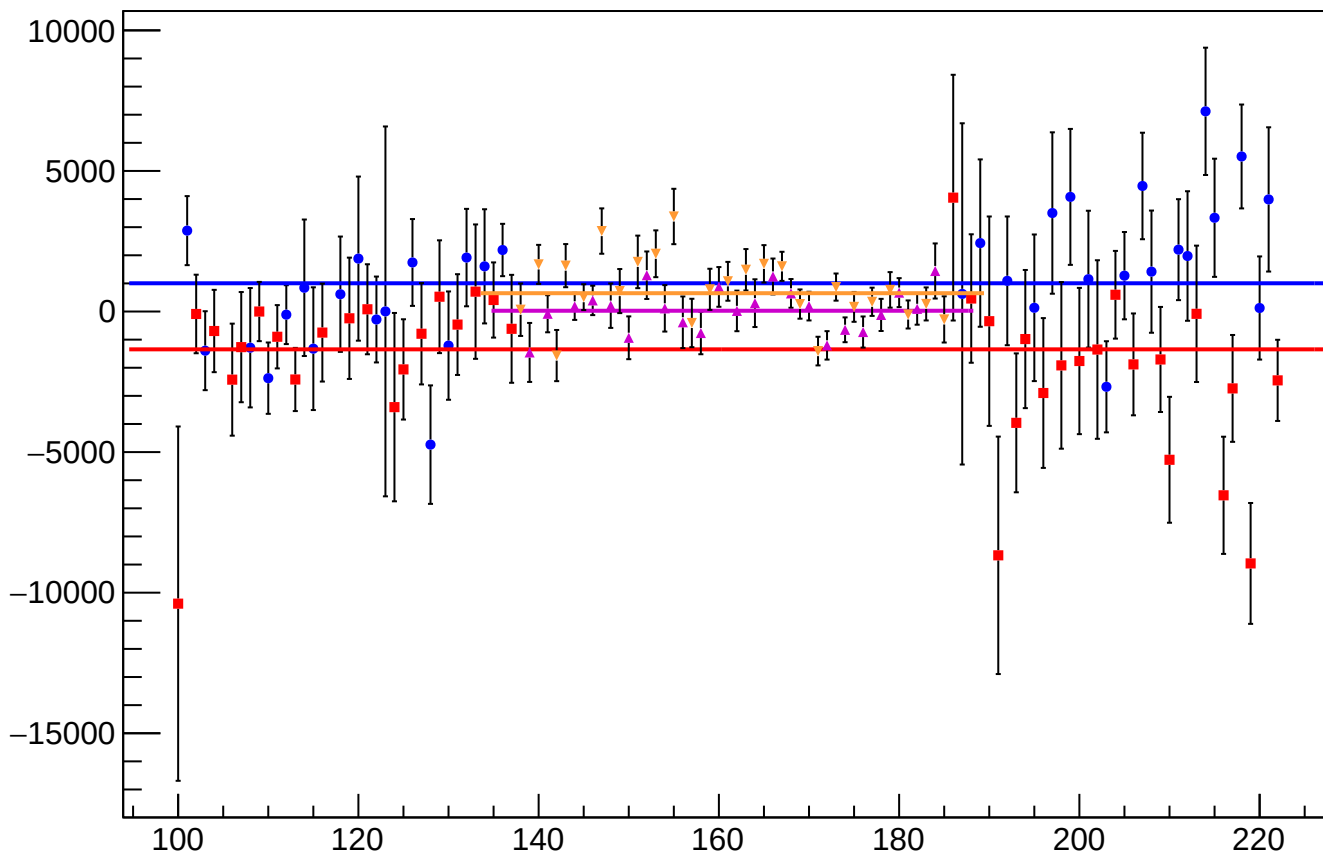
Right: 1254.186 $\pm$ 0.151 χ^2 /NDF: 10274912.2/72

In: 635.086 $\pm$ 0.084 χ^2 /NDF:16140790.4/57

Out: 638.842 $\pm$ 0.083 χ^2 /NDF:17449057.7/62

All: 636.995 $\pm$ 0.059 χ^2 /NDF: 33590862.9/12

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 1004.646 $\pm$ 306.512 χ^2 /NDF: 55.6/34

Left Out: 651.560 $\pm$ 127.961 χ^2 /NDF:61.1/24

Right Out: -1345.373 $\pm$ 301.673 χ^2 /NDF: 43.3/37

Left In: 27.483 $\pm$ 130.127 χ^2 /NDF:28.5/22

Left: 344.758 $\pm$ 91.238 χ^2 /NDF: 101.2/47

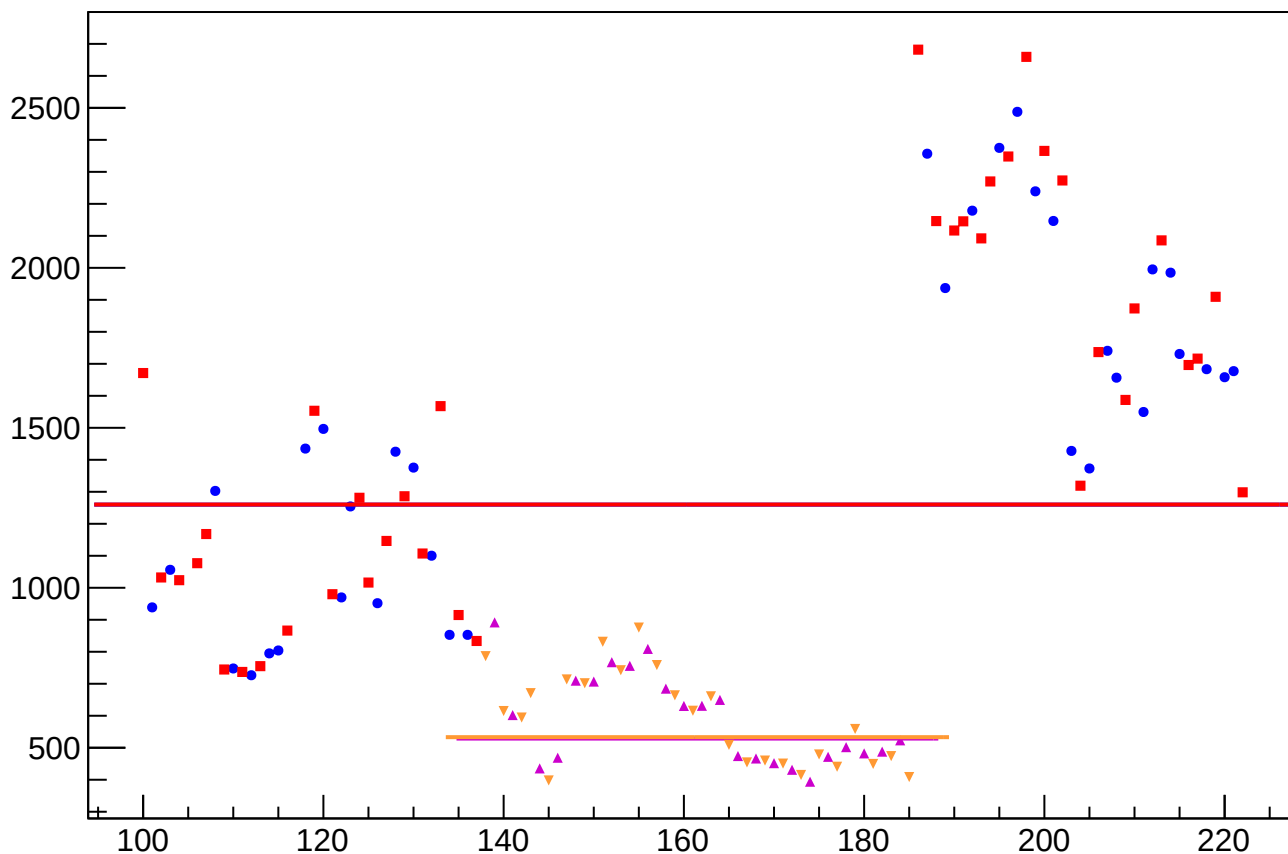
Right: -189.059 $\pm$ 215.006 χ^2 /NDF: 128.7/72

In: 176.707 $\pm$ 119.779 χ^2 /NDF:92.6/57

Out: 347.056 $\pm$ 117.802 χ^2 /NDF:141.5/62

All: 263.299 $\pm$ 83.989 χ^2 /NDF: 235.1/120

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1259.821 $\pm$ 0.217 χ^2 /NDF: 4720852.4/34

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1260.175 $\pm$ 0.213 χ^2 /NDF: 5561981.0/37

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF: 1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

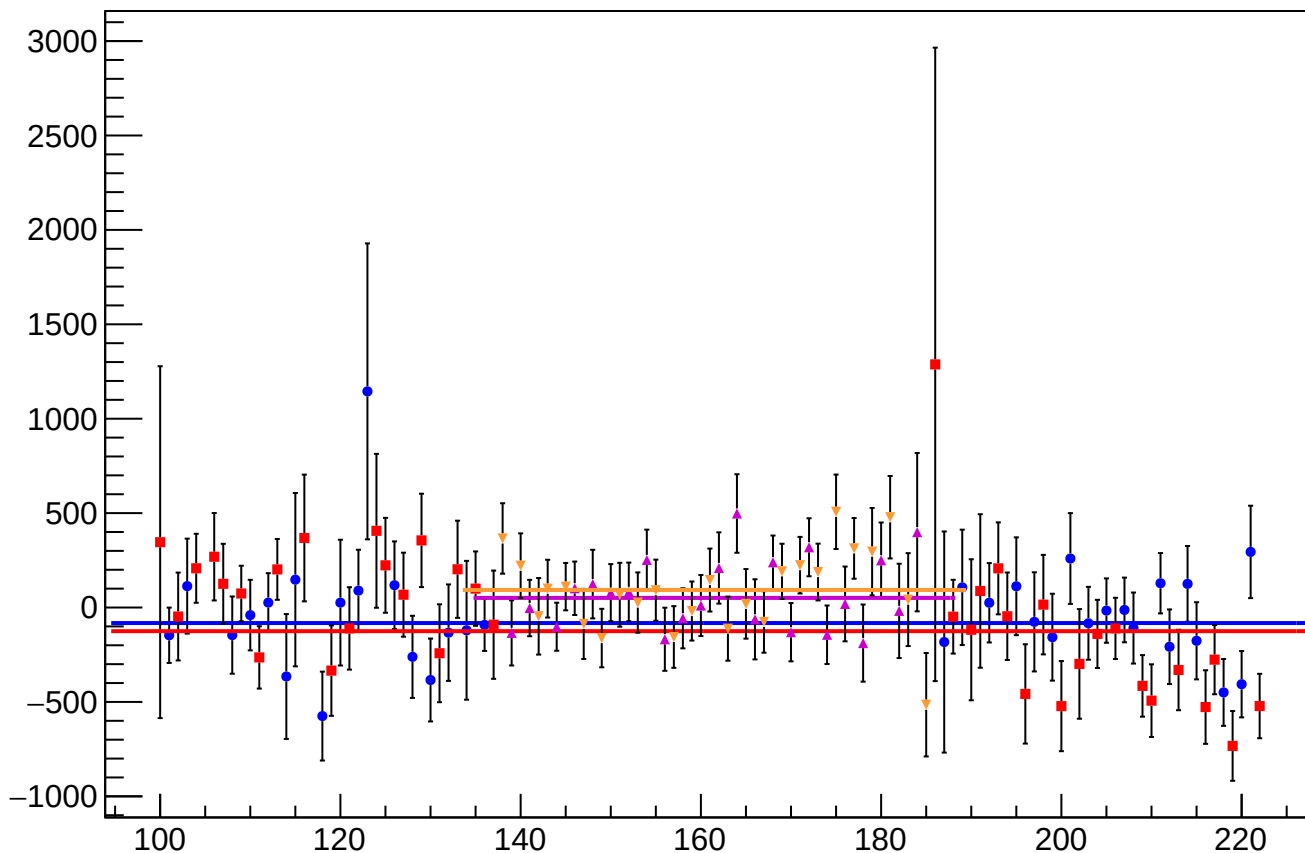
Right: 1260.001 $\pm$ 0.152 χ^2 /NDF: 10282834.7/72

In: 640.345 $\pm$ 0.085 χ^2 /NDF: 16051028.8/57

Out: 643.935 $\pm$ 0.083 χ^2 /NDF: 17360653.1/62

All: 642.170 $\pm$ 0.059 χ^2 /NDF: 33412595.1/12

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -82.161 ± 35.902 χ^2/NDF : 30.6/34

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -125.232 ± 35.481 χ^2/NDF : 65.9/37

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

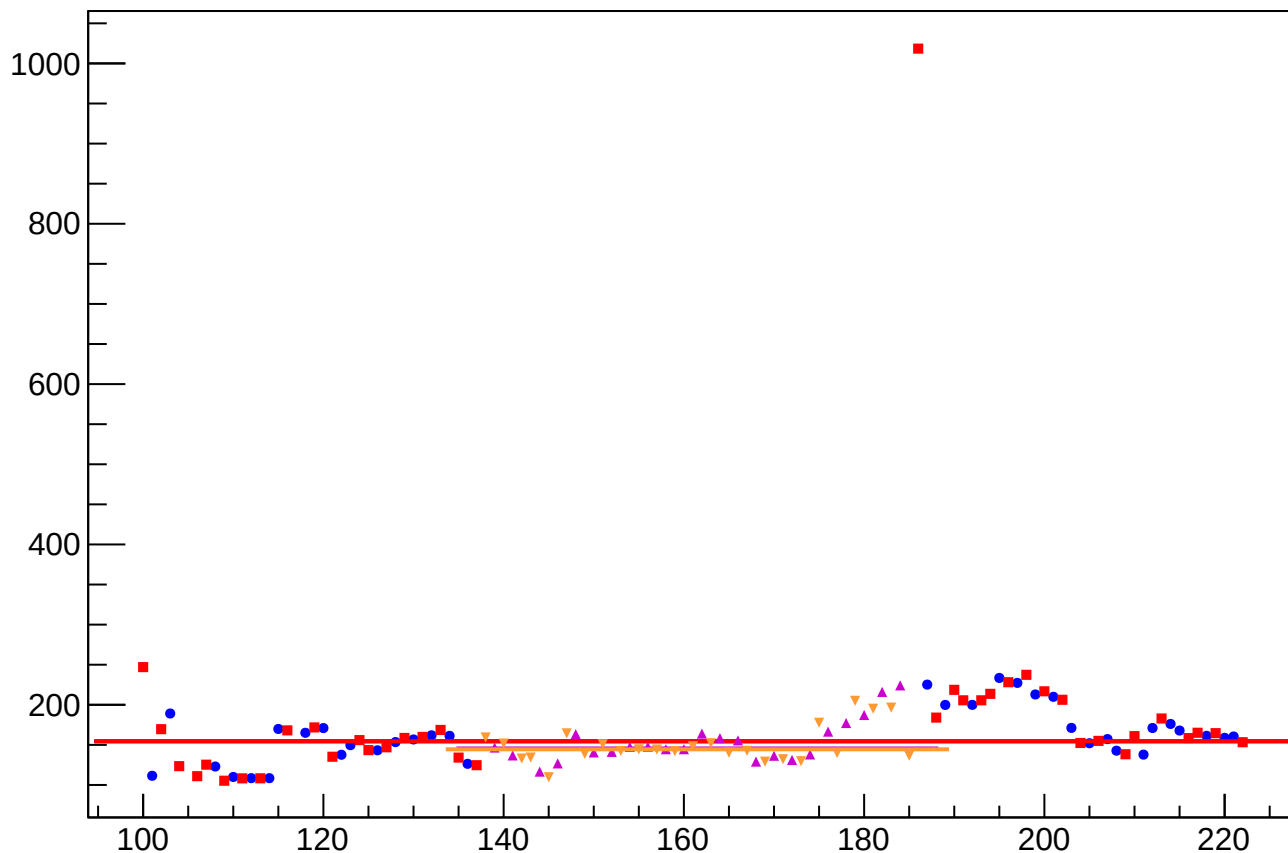
Right: -103.951 ± 25.236 χ^2/NDF : 97.2/72

In: -14.469 ± 25.164 χ^2/NDF : 61.0/57

Out: -11.641 ± 24.569 χ^2/NDF : 115.1/62

All: -13.021 ± 17.579 χ^2/NDF : 176.1/120

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.470 $\pm$ 0.025 χ^2 /NDF: 1535968.1/34

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.524 $\pm$ 0.025 χ^2 /NDF: 2337571.8/37

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

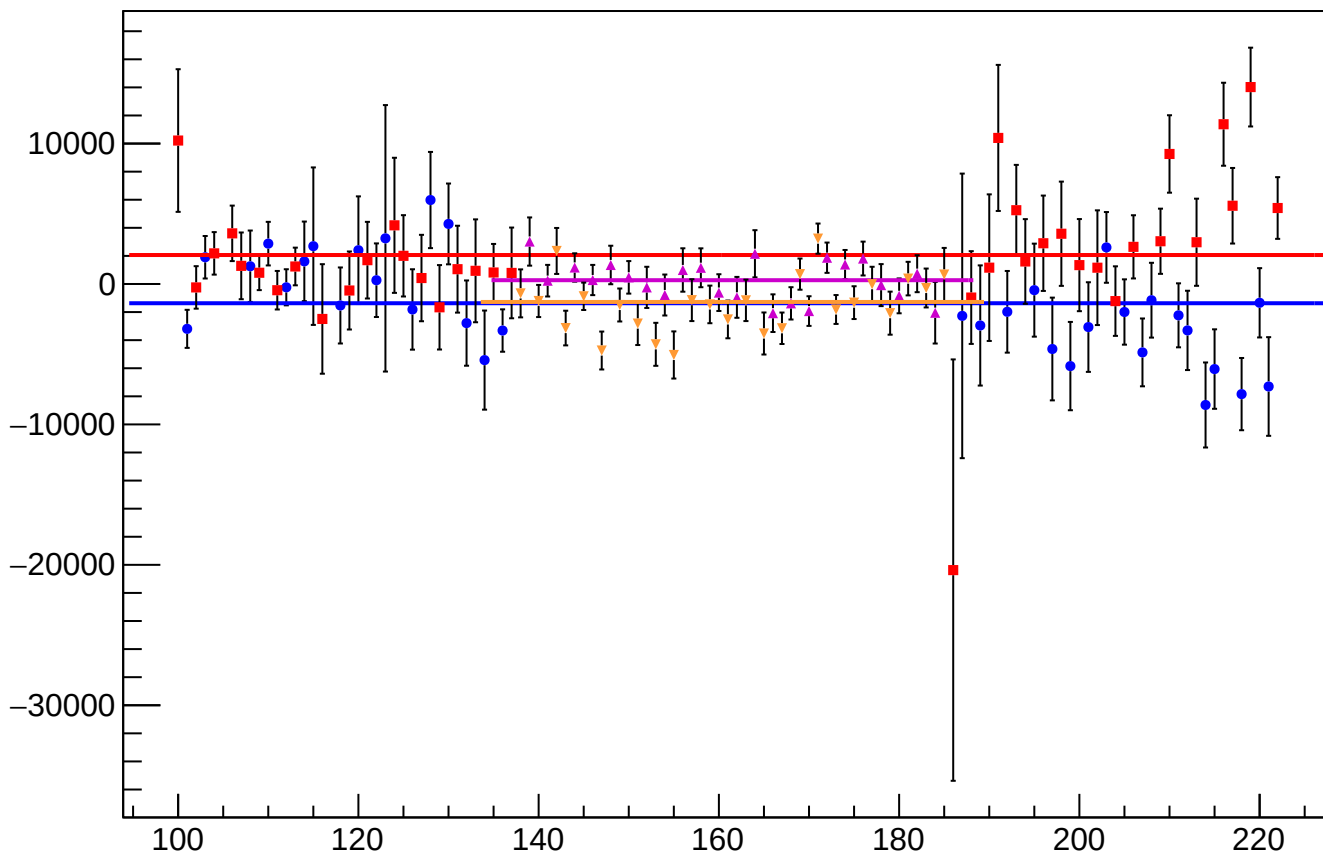
Right: 154.498 $\pm$ 0.018 χ^2 /NDF: 3873542.2/72

In: 149.924 $\pm$ 0.018 χ^2 /NDF: 2242528.6/57

Out: 149.293 $\pm$ 0.017 χ^2 /NDF: 3091562.3/62

All: 149.601 $\pm$ 0.012 χ^2 /NDF: 5334734.9/120

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1370.328 ± 415.921 $\chi^2/\text{NDF}: 57.0/34$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 2062.838 ± 396.271 $\chi^2/\text{NDF}: 63.4/37$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

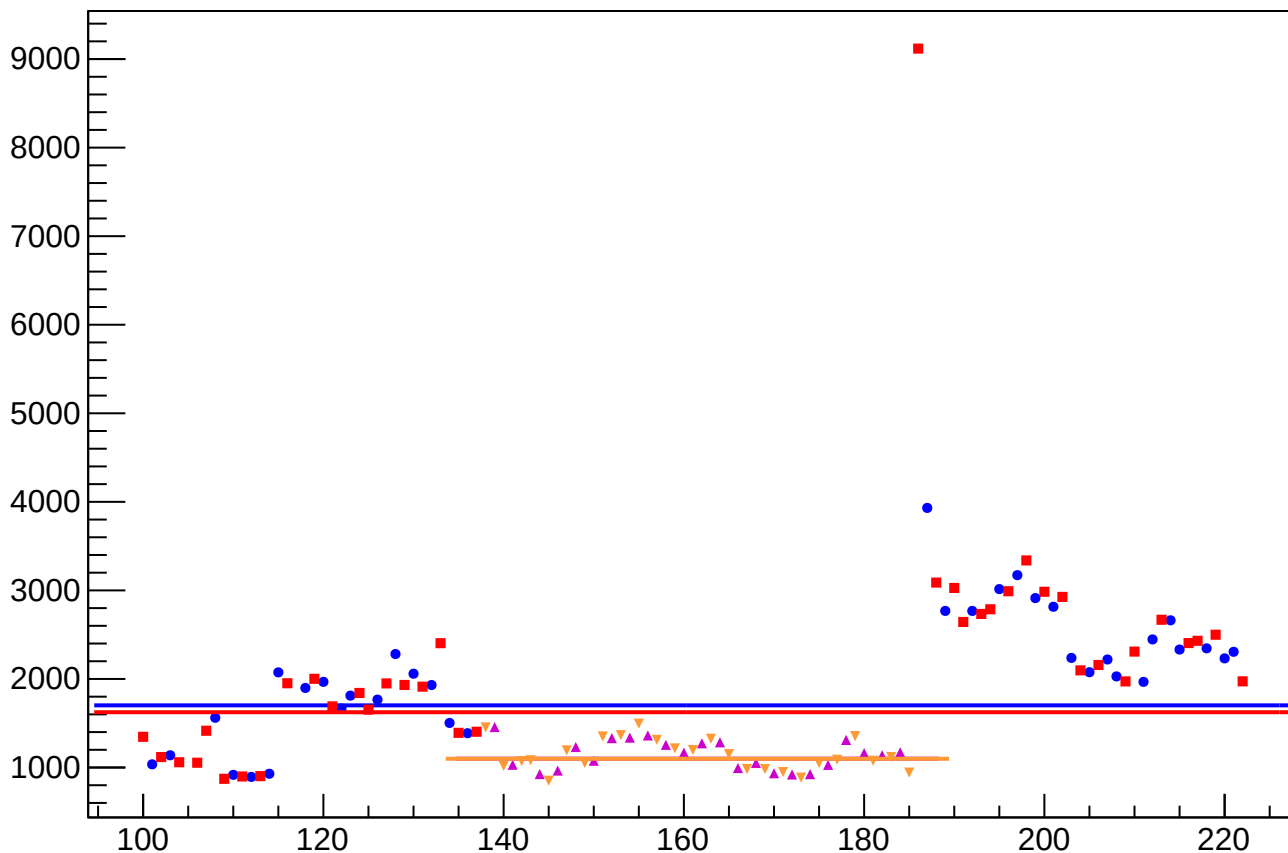
Right: 429.266 ± 286.901 $\chi^2/\text{NDF}: 156.1/72$

In: -206.821 ± 224.237 $\chi^2/\text{NDF}: 92.4/57$

Out: -277.335 ± 216.976 $\chi^2/\text{NDF}: 169.1/62$

All: -243.238 ± 155.929 $\chi^2/\text{NDF}: 261.5/120$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1701.899 $\pm$ 0.294 χ^2 /NDF: 5115613.4/34

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1624.260 $\pm$ 0.280 χ^2 /NDF: 6900468.2/37

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

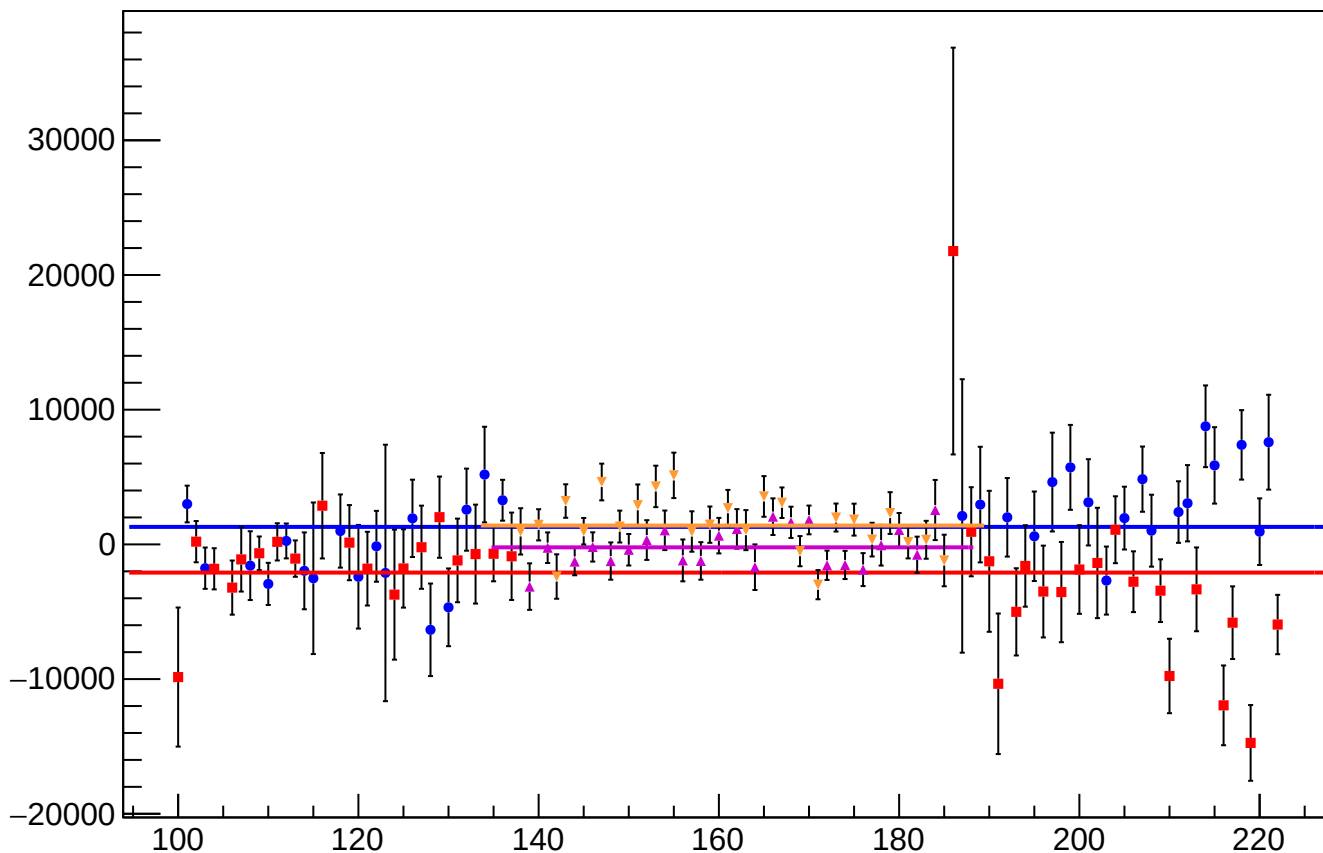
Right: 1661.202 $\pm$ 0.203 χ^2 /NDF: 12052611.1/72

In: 1274.657 $\pm$ 0.159 χ^2 /NDF: 8770636.6/57

Out: 1256.411 $\pm$ 0.153 χ^2 /NDF: 10186097.9/62

All: 1265.234 $\pm$ 0.110 χ^2 /NDF: 18963573.2/119

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1298.671+/-418.030 χ^2/NDF : 56.4/34

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -2093.943+/-398.663 χ^2/NDF : 68.4/37

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

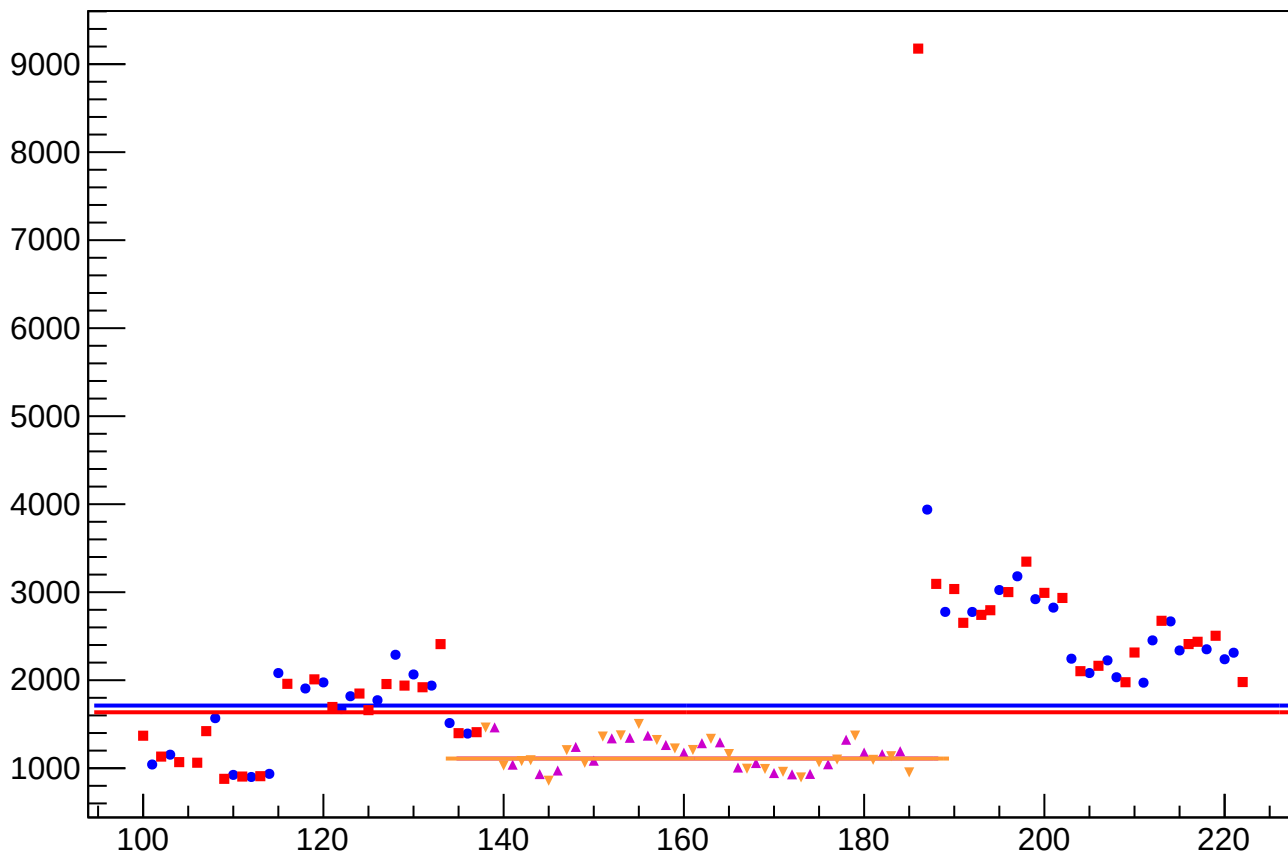
Right: -478.043+/-288.501 χ^2/NDF : 159.3/72

In: 224.794+/-226.123 χ^2/NDF : 90.7/57

Out: 347.541+/-218.835 χ^2/NDF : 174.3/62

All: 288.178+/-157.253 χ^2/NDF : 265.2/120

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1712.005 $\pm$ 0.296 χ^2 /NDF: 5059193.4/34

Left Out: 1109.761 $\pm$ 0.185 χ^2 /NDF: 812174.9/24

Right Out: 1635.611 $\pm$ 0.282 χ^2 /NDF: 6827538.6/37

Left In: 1110.542 $\pm$ 0.190 χ^2 /NDF: 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2 /NDF: 1482112.5/47

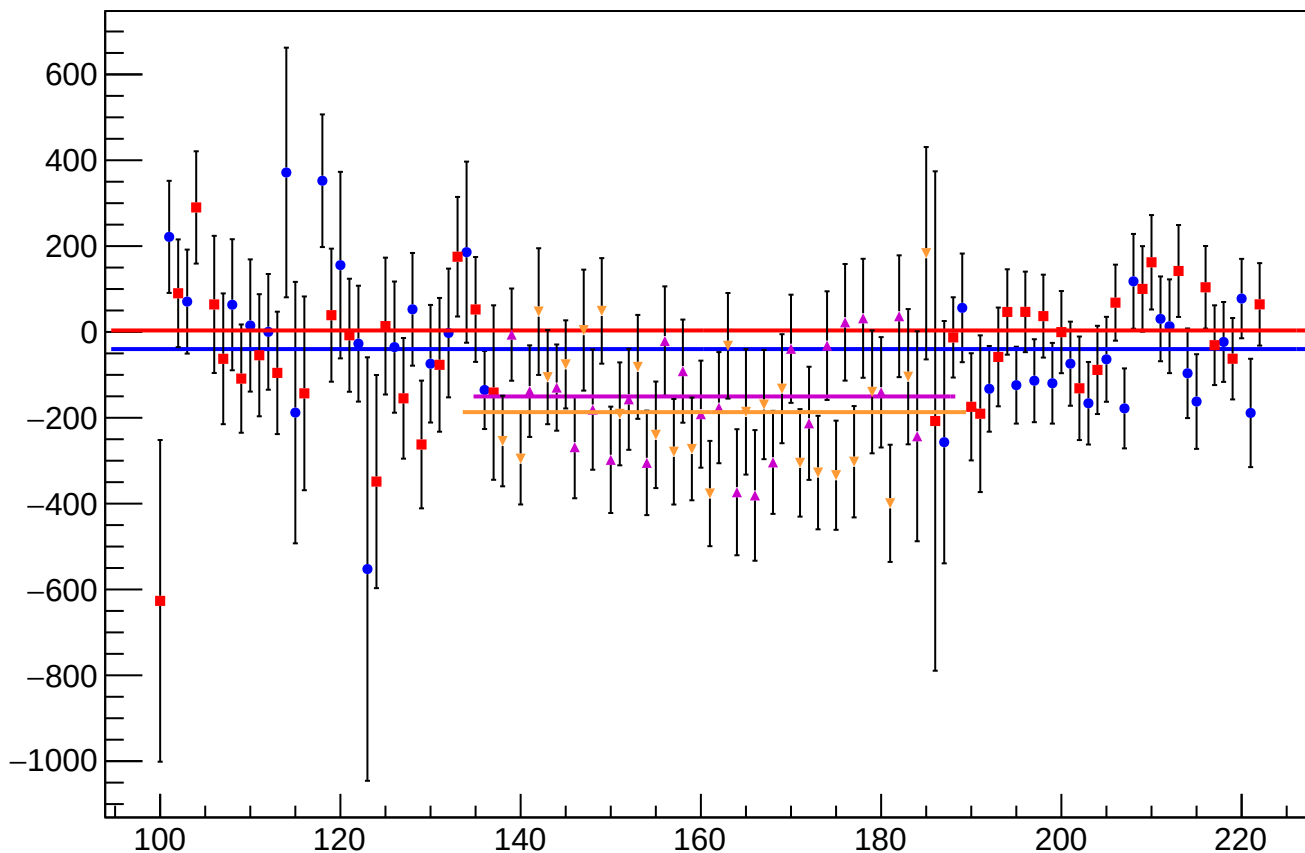
Right: 1671.997 $\pm$ 0.204 χ^2 /NDF: 11921711.3/72

In: 1286.531 $\pm$ 0.160 χ^2 /NDF: 8657970.4/57

Out: 1268.208 $\pm$ 0.155 χ^2 /NDF: 10070923.1/62

All: 1277.069 $\pm$ 0.111 χ^2 /NDF: 18735674.2/1

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -39.923 ± 20.243 χ^2/NDF : 34.6/34

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 3.454 ± 19.802 χ^2/NDF : 32.8/37

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

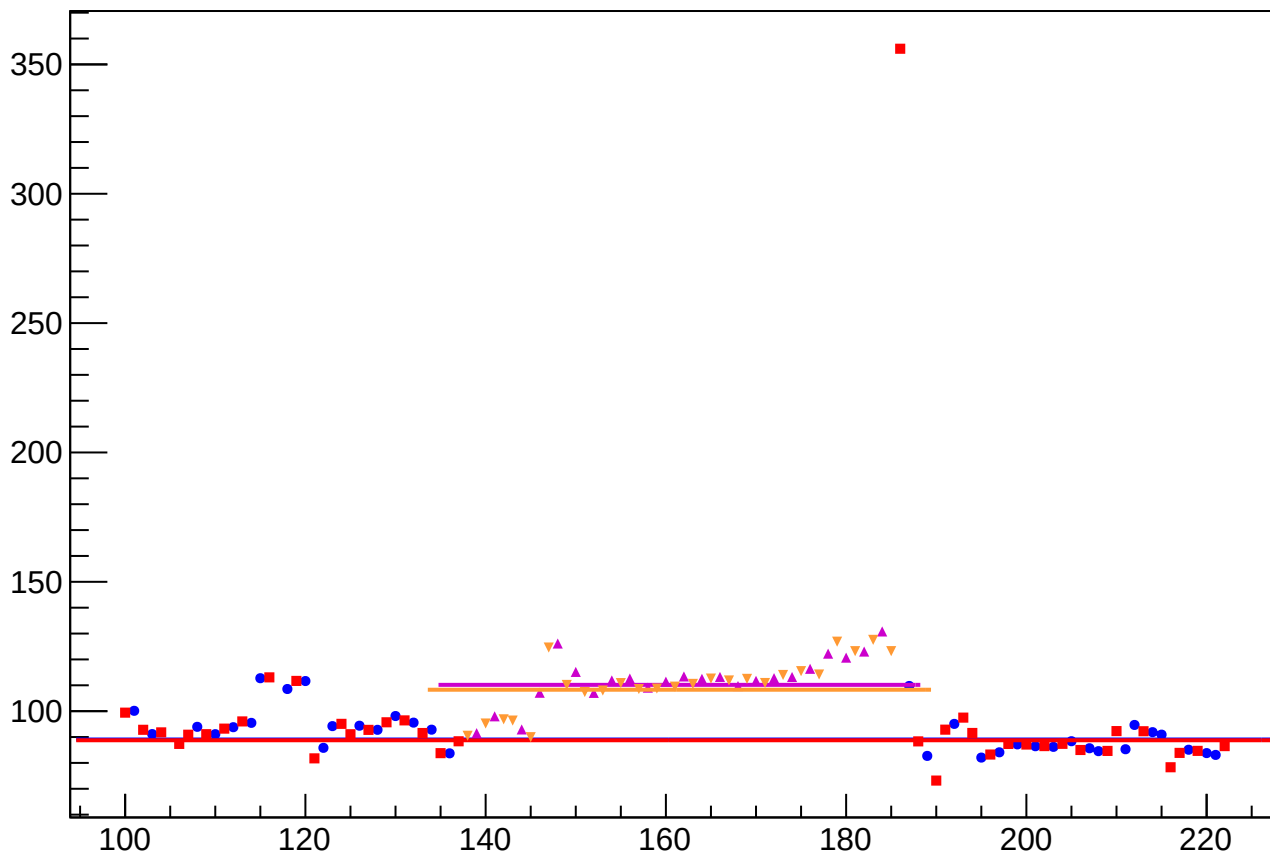
Right: -17.757 ± 14.156 χ^2/NDF : 69.8/72

In: -80.710 ± 16.074 χ^2/NDF : 66.3/57

Out: -68.808 ± 15.596 χ^2/NDF : 94.5/62

All: -74.579 ± 11.193 χ^2/NDF : 161.0/120

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.044+/-0.014 χ^2/NDF : 187345.0/34

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 88.756+/-0.014 χ^2/NDF : 624360.8/37

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

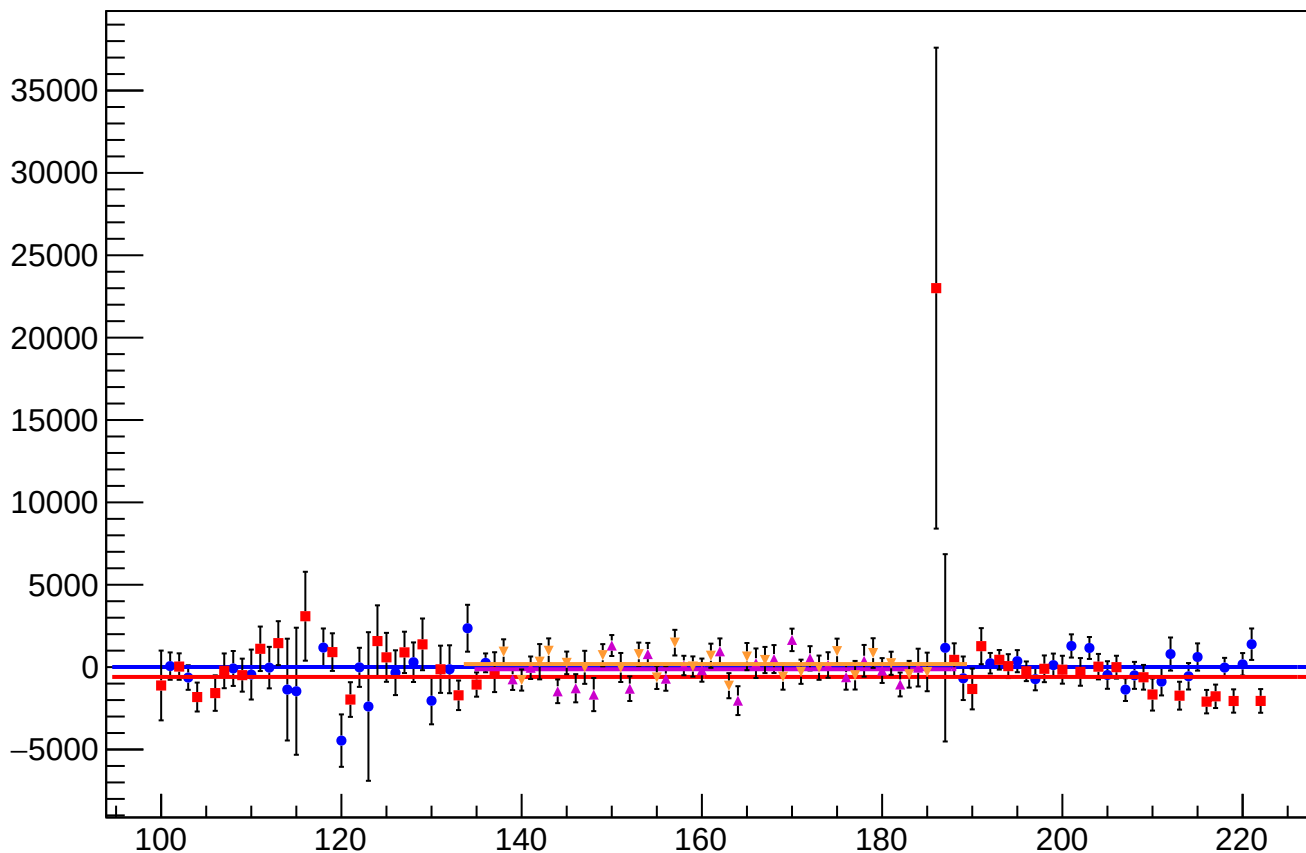
Right: 88.897+/-0.010 χ^2/NDF : 811912.2/72

In: 96.850+/-0.011 χ^2/NDF : 1239373.9/57

Out: 96.173+/-0.011 χ^2/NDF : 1693903.4/62

All: 96.501+/-0.008 χ^2/NDF : 2935107.8/120

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 7.486 $\pm$ 151.678 χ^2/NDF : 33.4/34

Left Out: 185.392 $\pm$ 153.683 χ^2/NDF : 18.4/24

Right Out: -596.013 $\pm$ 149.207 χ^2/NDF : 51.4/37

Left In: -128.782 $\pm$ 157.155 χ^2/NDF : 36.2/22

Left: 31.814 $\pm$ 109.877 χ^2/NDF : 56.6/47

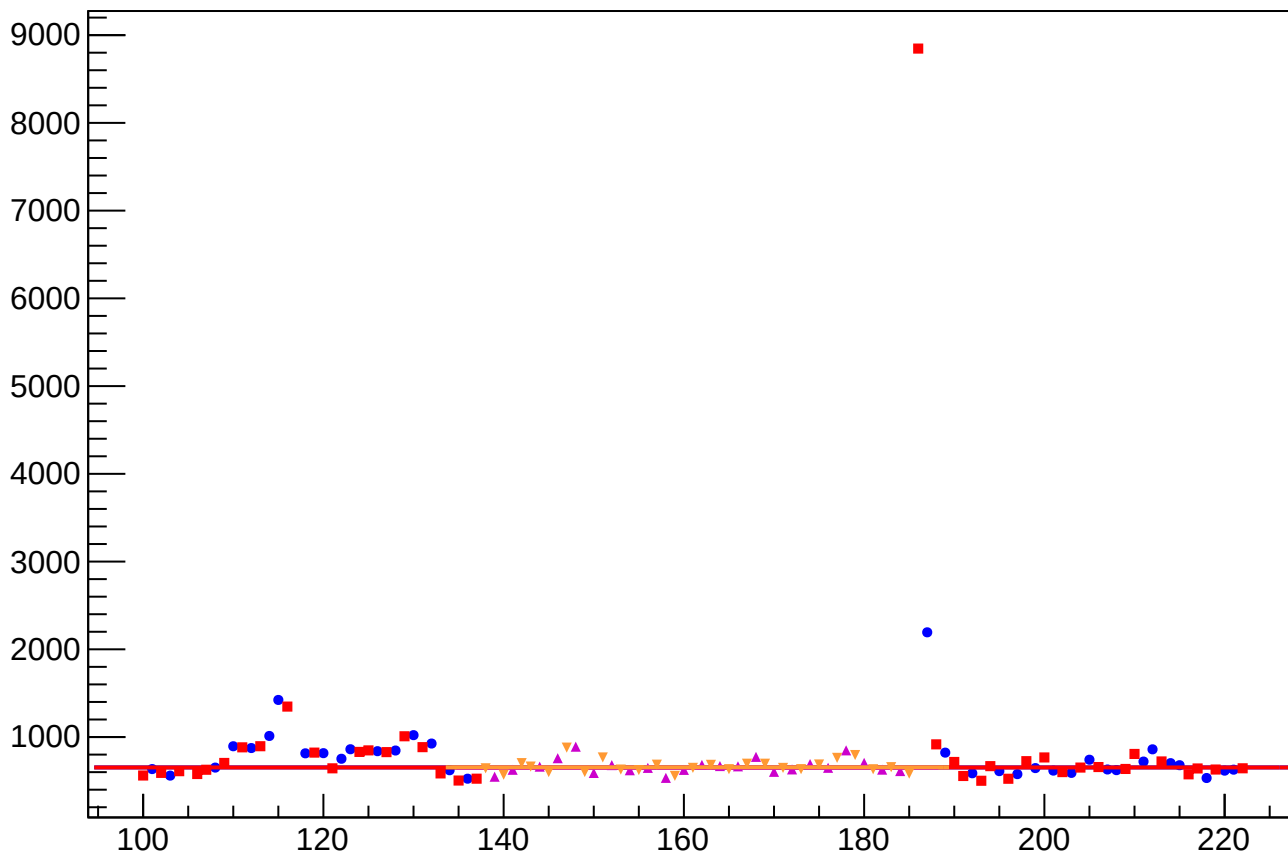
Right: -299.219 $\pm$ 106.368 χ^2/NDF : 92.8/72

In: -58.232 $\pm$ 109.138 χ^2/NDF : 70.0/57

Out: -216.854 $\pm$ 107.053 χ^2/NDF : 83.1/62

All: -139.073 $\pm$ 76.424 χ^2/NDF : 154.1/120

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 653.987 $\pm$ 0.107 χ^2 /NDF: 1204346.5/34

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.424 $\pm$ 0.106 χ^2 /NDF: 1857071.2/37

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

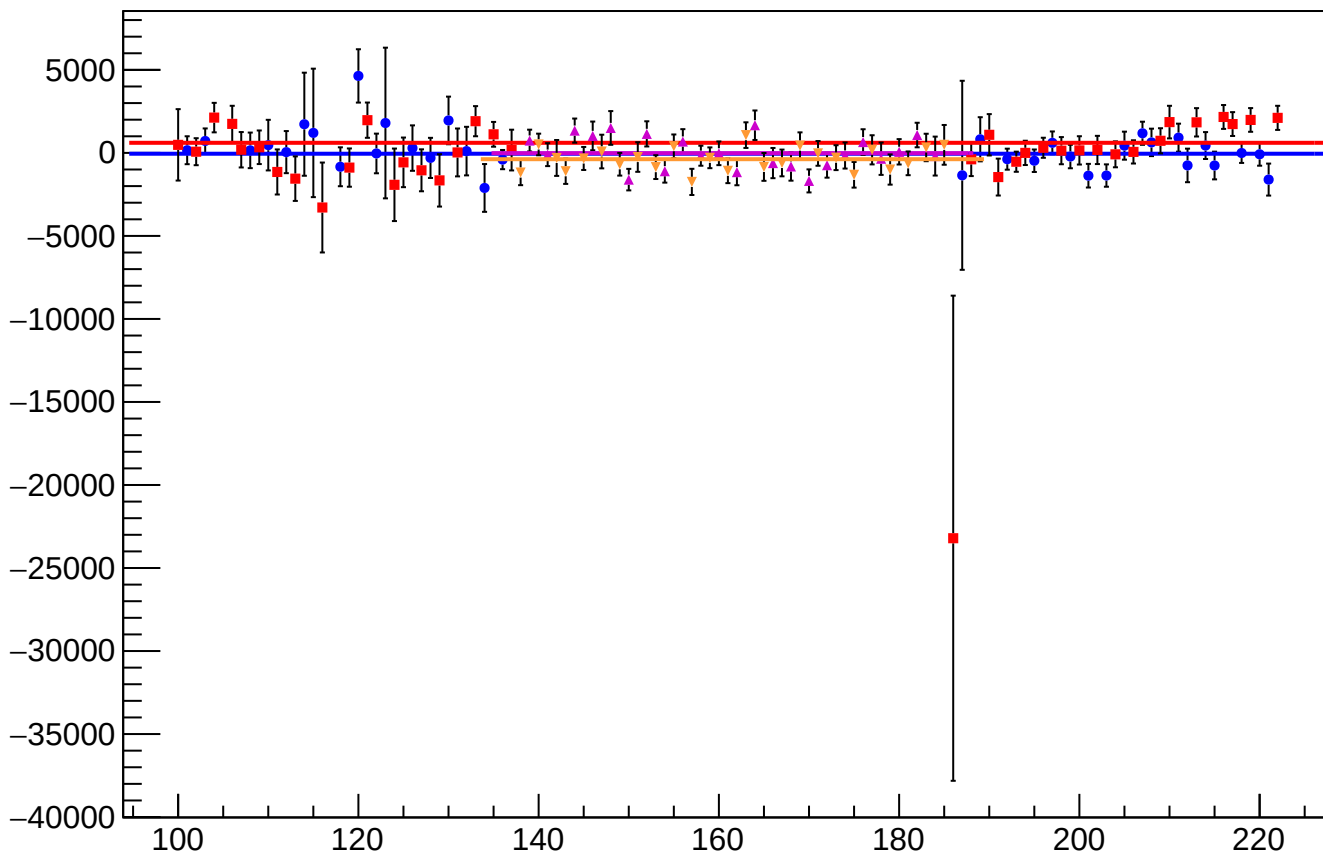
Right: 653.701 $\pm$ 0.075 χ^2 /NDF: 3061431.7/72

In: 652.490 $\pm$ 0.077 χ^2 /NDF: 1670867.2/57

Out: 654.264 $\pm$ 0.076 χ^2 /NDF: 2224551.6/62

All: 653.394 $\pm$ 0.054 χ^2 /NDF: 3895688.2/120

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -50.132 $\pm$ 153.197 χ^2/NDF : 34.3/34

Left Out: -379.470 $\pm$ 155.892 χ^2/NDF :18.8/24

Right Out: 607.845 $\pm$ 150.736 χ^2/NDF : 55.8/37

Left In: -14.768 $\pm$ 159.513 χ^2/NDF :37.2/22

Left: -201.306 $\pm$ 111.491 χ^2/NDF : 58.7/47

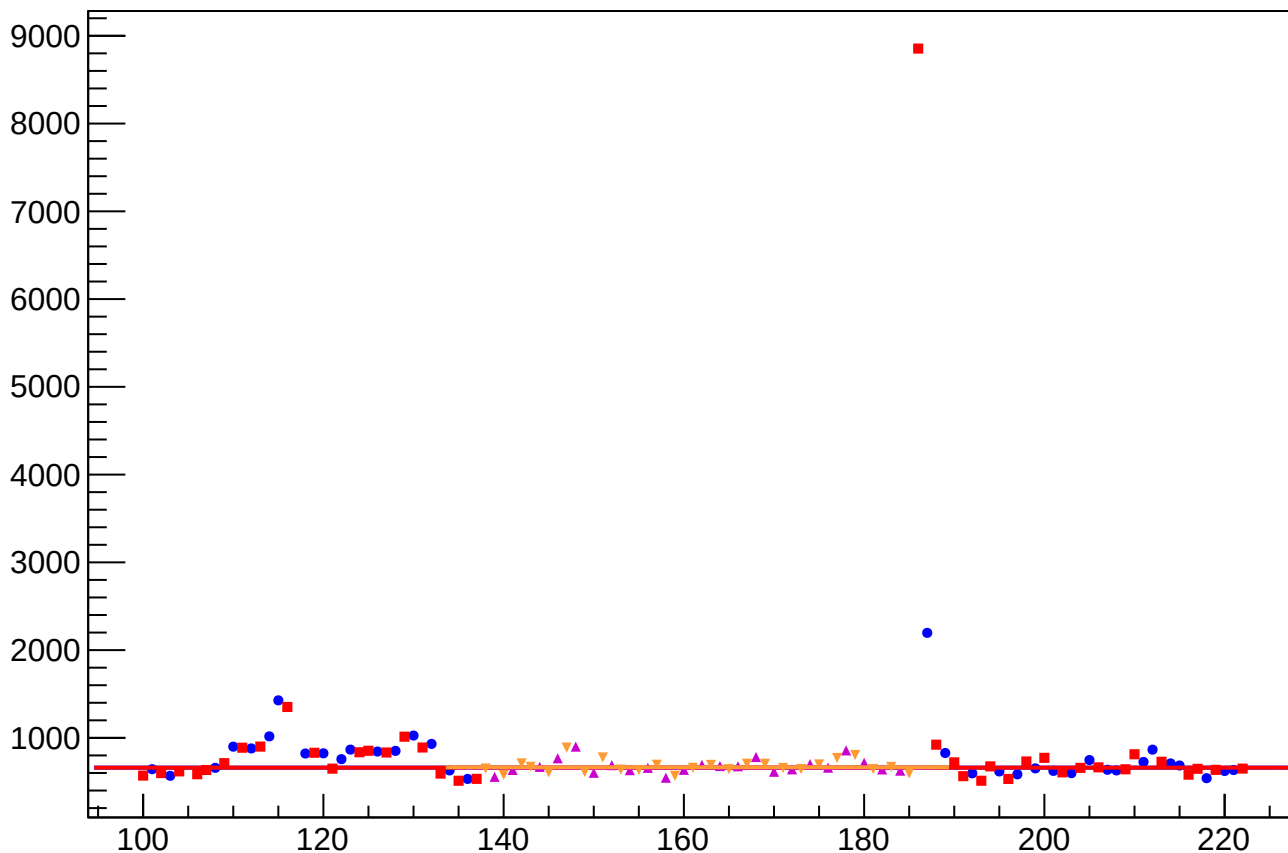
Right: 284.185 $\pm$ 107.446 χ^2/NDF : 99.5/72

In: -33.164 $\pm$ 110.492 χ^2/NDF :71.6/57

Out: 130.786 $\pm$ 108.363 χ^2/NDF :95.3/62

All: 50.406 $\pm$ 77.366 χ^2/NDF : 168.0/120

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 660.923+/-0.108 χ^2/NDF : 1176437.5/34

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 660.590+/-0.107 χ^2/NDF : 1819748.2/37

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

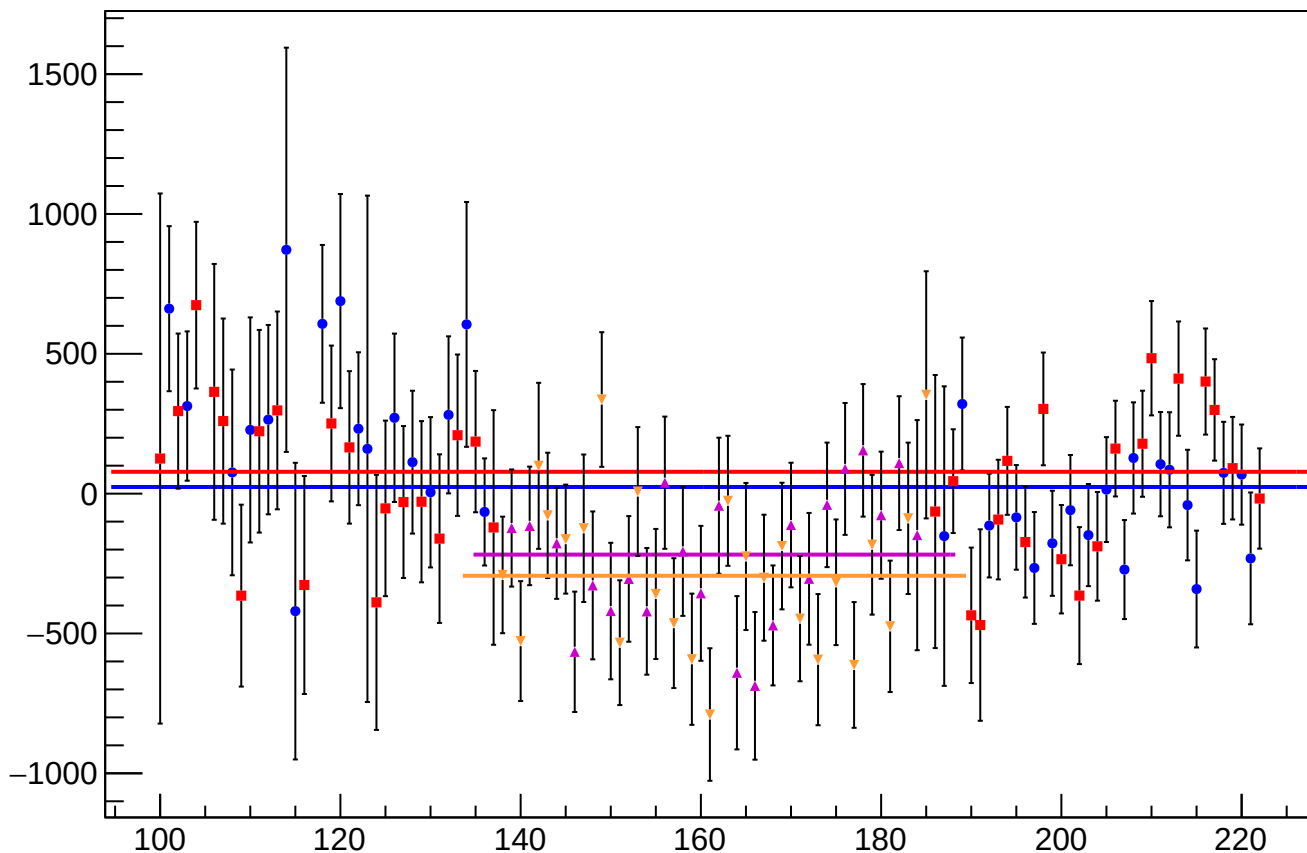
Right: 660.754+/-0.076 χ^2/NDF : 2996190.5/72

In: 660.907+/-0.078 χ^2/NDF : 1625617.5/57

Out: 662.611+/-0.077 χ^2/NDF : 2177546.2/62

All: 661.776+/-0.055 χ^2/NDF : 3803406.0/120

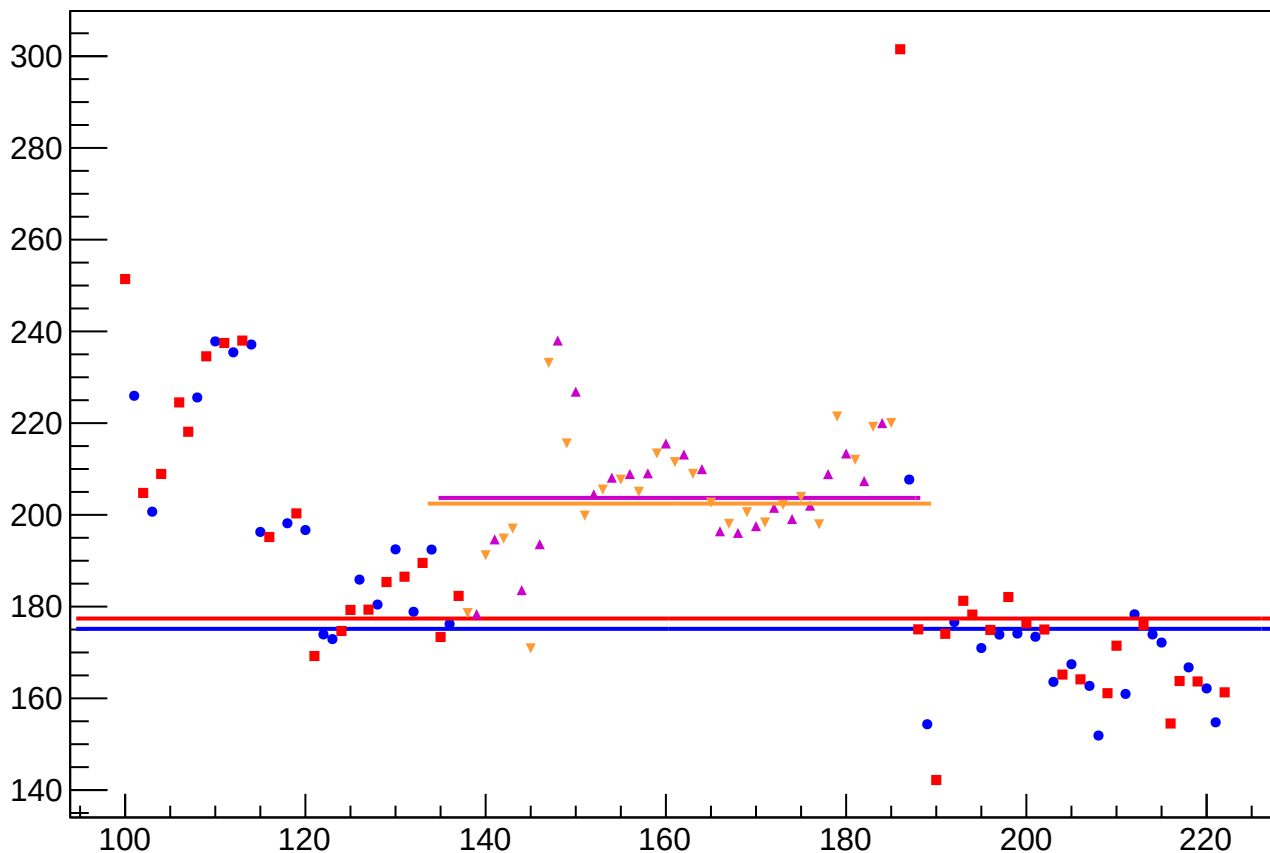
reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 23.825 ± 39.956 $\chi^2/\text{NDF}: 34.9/34$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 78.160 ± 39.629 $\chi^2/\text{NDF}: 42.2/37$
 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: 51.215 ± 28.137 $\chi^2/\text{NDF}: 78.0/72$
 In: -73.168 ± 30.920 $\chi^2/\text{NDF}: 70.9/57$
 Out: -75.535 ± 30.351 $\chi^2/\text{NDF}: 108.9/62$
 All: -74.373 ± 21.660 $\chi^2/\text{NDF}: 179.8/120$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 175.149 $\pm$ 0.028 χ^2 /NDF: 395090.2/34

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 177.397 $\pm$ 0.028 χ^2 /NDF: 581420.0/37

Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47

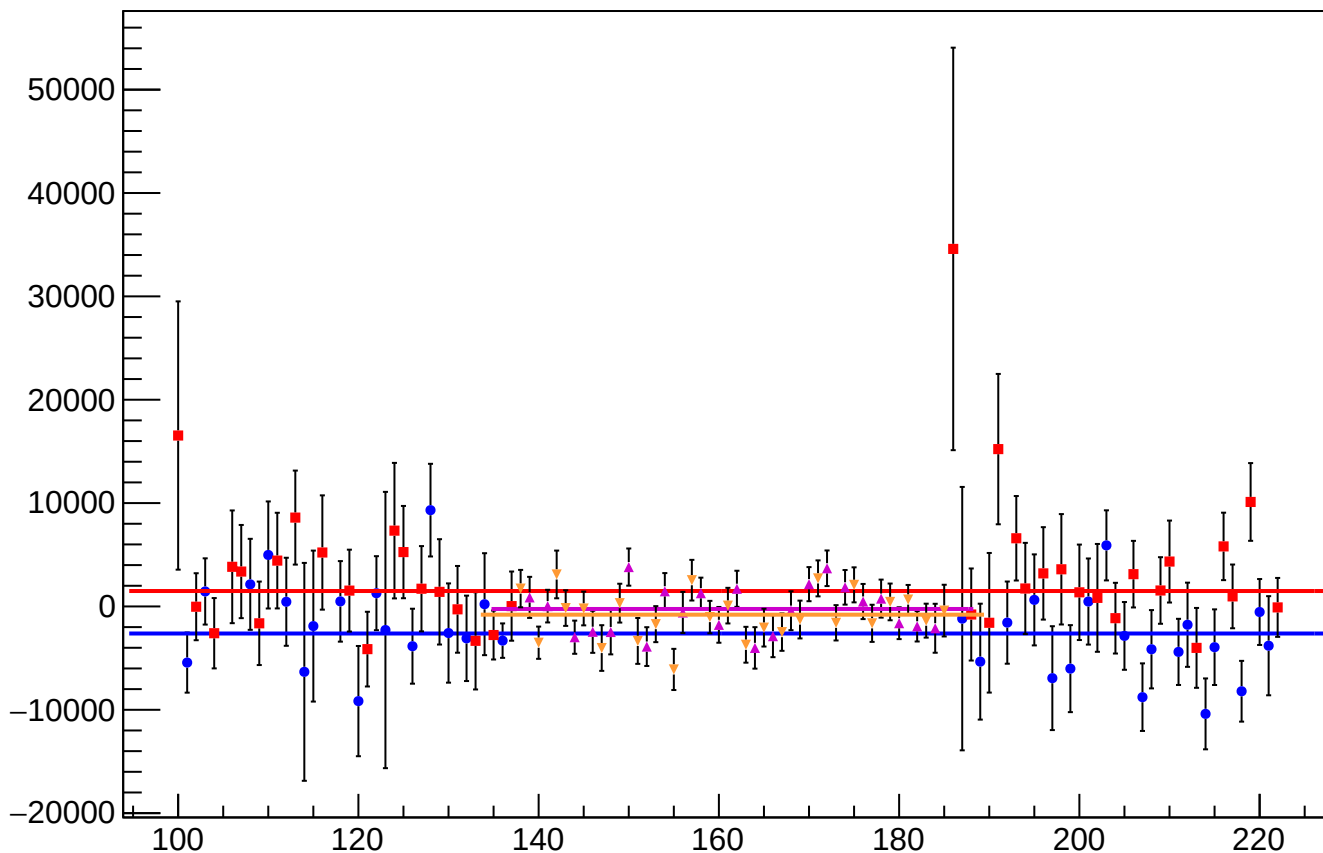
Right: 176.282 $\pm$ 0.020 χ^2 /NDF: 979702.2/72

In: 186.602 $\pm$ 0.022 χ^2 /NDF:940899.9/57

Out: 187.758 $\pm$ 0.021 χ^2 /NDF:1070691.9/62

All: 187.191 $\pm$ 0.015 χ^2 /NDF: 2013017.6/120

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2618.662 $\pm$ 642.049 χ^2 /NDF: 40.1/34

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF:35.7/24

Right Out: 1492.456 $\pm$ 657.157 χ^2 /NDF: 35.4/37

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

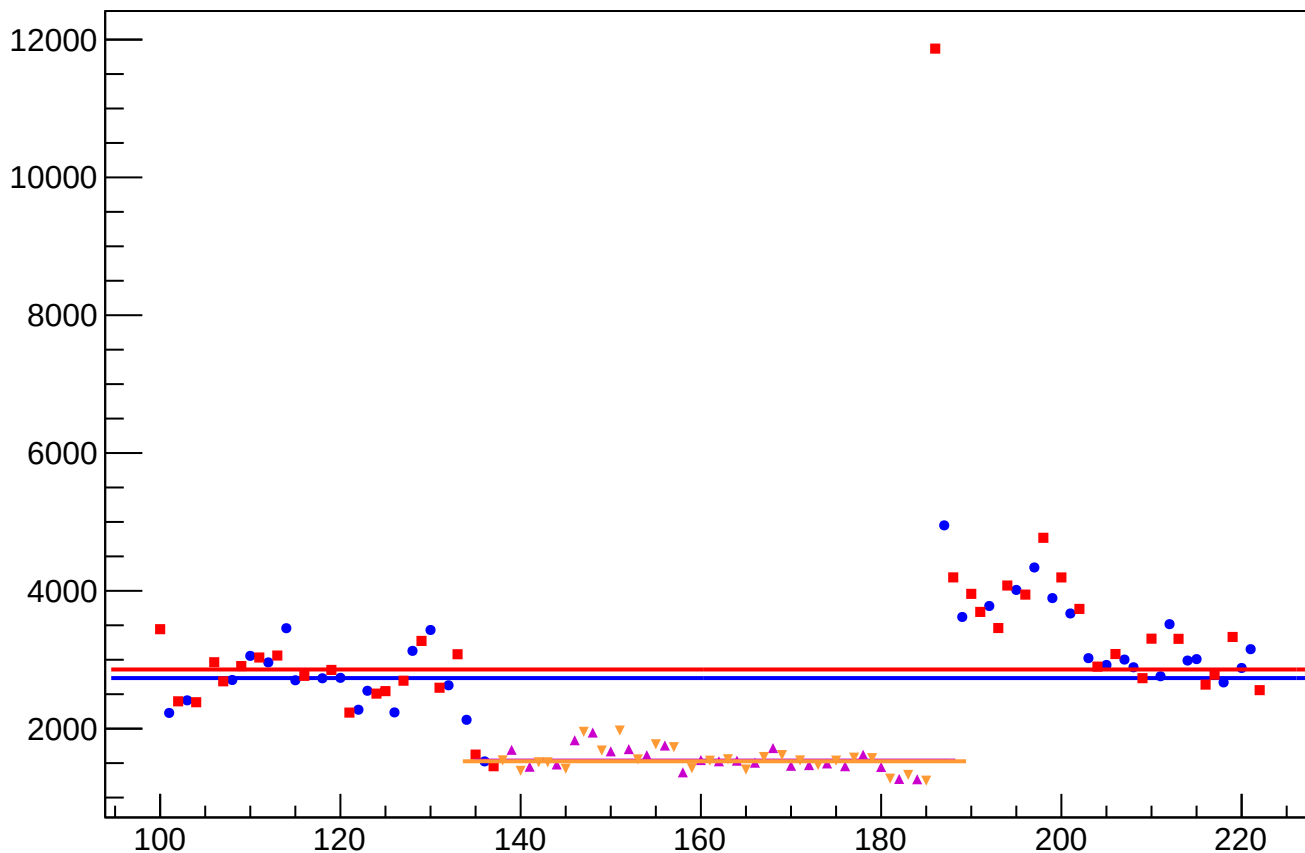
Right: -610.904 $\pm$ 459.246 χ^2 /NDF: 95.5/72

In: -836.473 $\pm$ 320.478 χ^2 /NDF:86.1/57

Out: -273.016 $\pm$ 314.276 χ^2 /NDF:80.5/62

All: -549.240 $\pm$ 224.387 χ^2 /NDF: 168.1/120

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2733.928 $\pm$ 0.454 χ^2 /NDF: 2347743.6/34

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2858.719 $\pm$ 0.465 χ^2 /NDF: 2706269.4/37

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

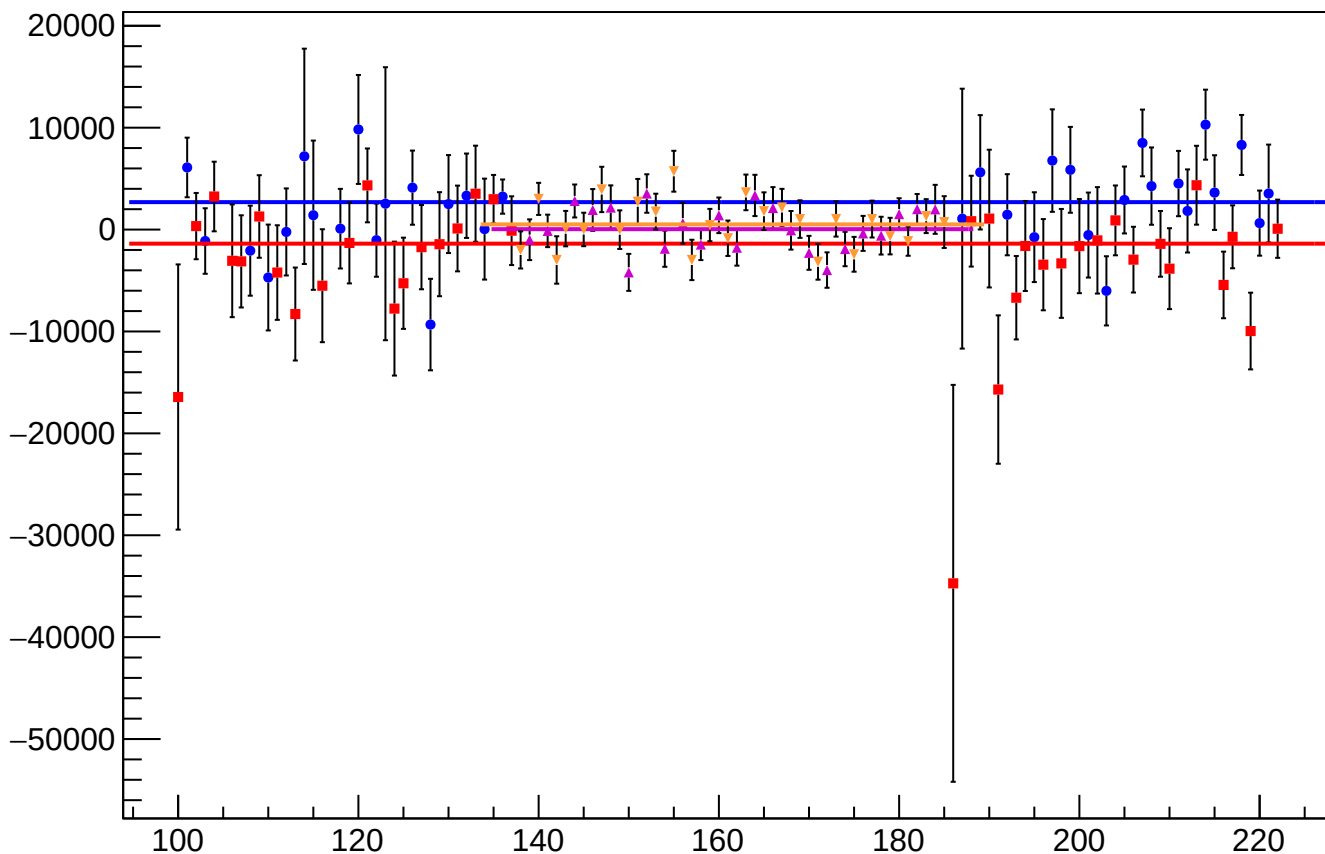
Right: 2794.872 $\pm$ 0.325 χ^2 /NDF: 5090911.8/72

In: 1834.867 $\pm$ 0.227 χ^2 /NDF: 7921102.6/57

Out: 1831.354 $\pm$ 0.222 χ^2 /NDF: 9438732.9/62

All: 1833.076 $\pm$ 0.159 χ^2 /NDF: 17359957.9/119

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2692.913 $\pm$ 643.927 χ^2 /NDF: 39.8/34

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1381.769 $\pm$ 658.961 χ^2 /NDF: 35.7/37

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

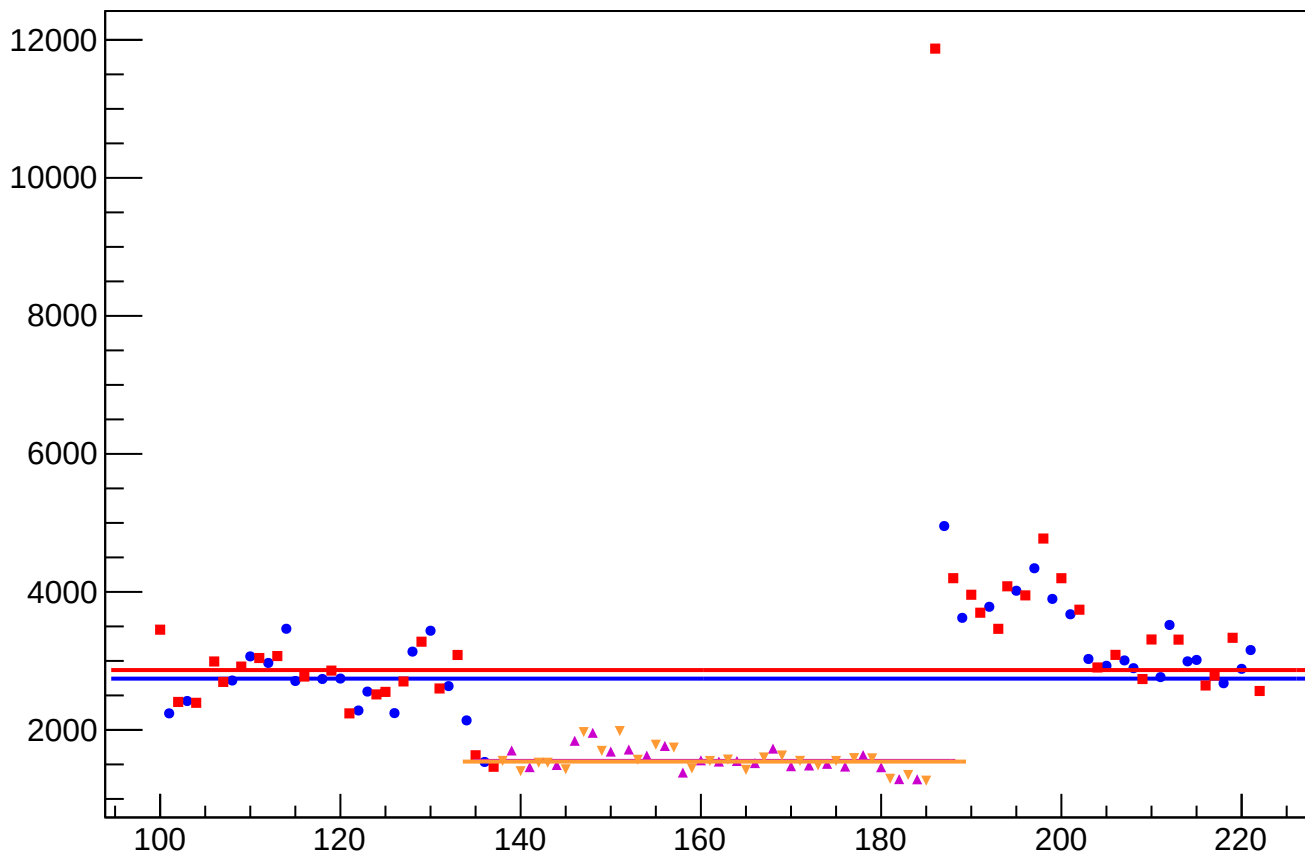
Right: 702.584 $\pm$ 460.548 χ^2 /NDF: 95.1/72

In: 707.275 $\pm$ 322.930 χ^2 /NDF:86.1/57

Out: 71.431 $\pm$ 316.720 χ^2 /NDF:77.4/62

All: 383.180 $\pm$ 226.118 χ^2 /NDF: 165.5/120

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2743.278+/-0.455 χ^2/NDF : 2313983.2/34

Left Out: 1541.258+/-0.255 χ^2/NDF : 382045.4/24

Right Out: 2867.390+/-0.466 χ^2/NDF : 2680424.9/37

Left In: 1551.063+/-0.264 χ^2/NDF : 338898.9/22

Left: 1546.000+/-0.184 χ^2/NDF : 721657.1/47

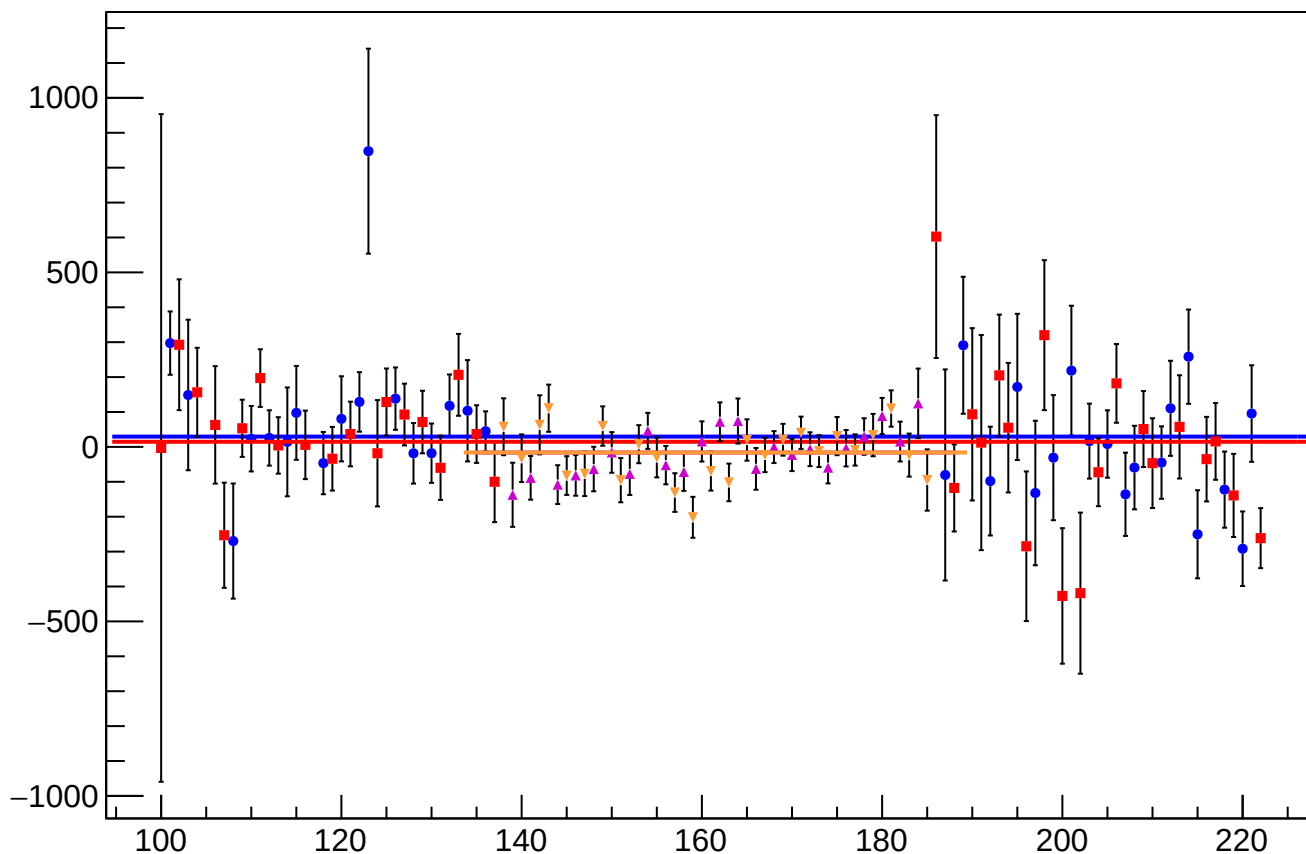
Right: 2803.902+/-0.326 χ^2/NDF : 5030700.2/72

In: 1850.909+/-0.228 χ^2/NDF : 7784523.1/57

Out: 1847.608+/-0.224 χ^2/NDF : 9291272.1/62

All: 1849.226+/-0.160 χ^2/NDF : 17075901.7/119

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 29.507 ± 18.990 $\chi^2/\text{NDF}: 53.2/34$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 14.689 ± 19.043 $\chi^2/\text{NDF}: 52.7/37$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

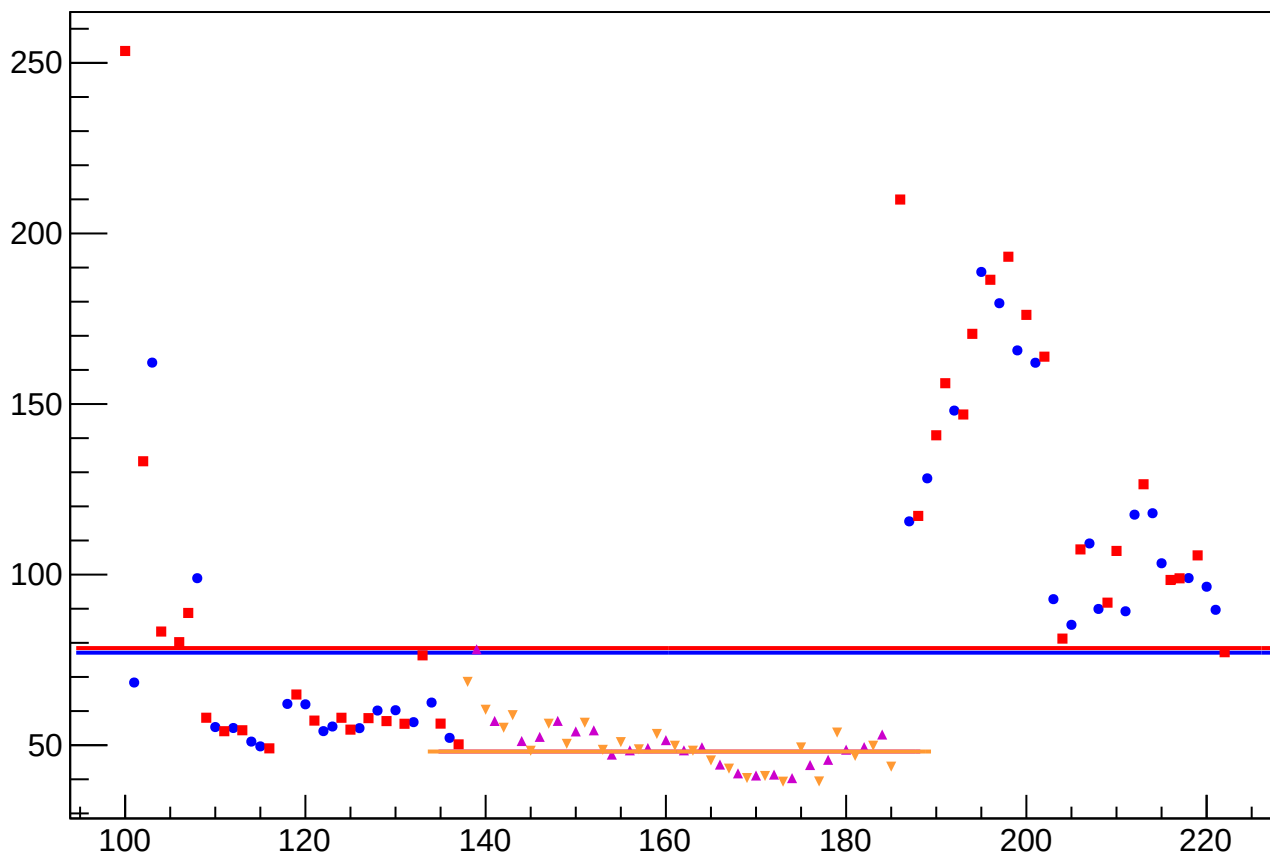
Right: 22.118 ± 13.447 $\chi^2/\text{NDF}: 106.2/72$

In: -3.675 ± 9.930 $\chi^2/\text{NDF}: 82.7/57$

Out: -8.002 ± 9.743 $\chi^2/\text{NDF}: 94.3/62$

All: -5.880 ± 6.955 $\chi^2/\text{NDF}: 177.1/120$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 77.117 $\pm$ 0.013 χ^2 /NDF: 5201813.4/34

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 78.464 $\pm$ 0.013 χ^2 /NDF: 5909717.9/37

Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47

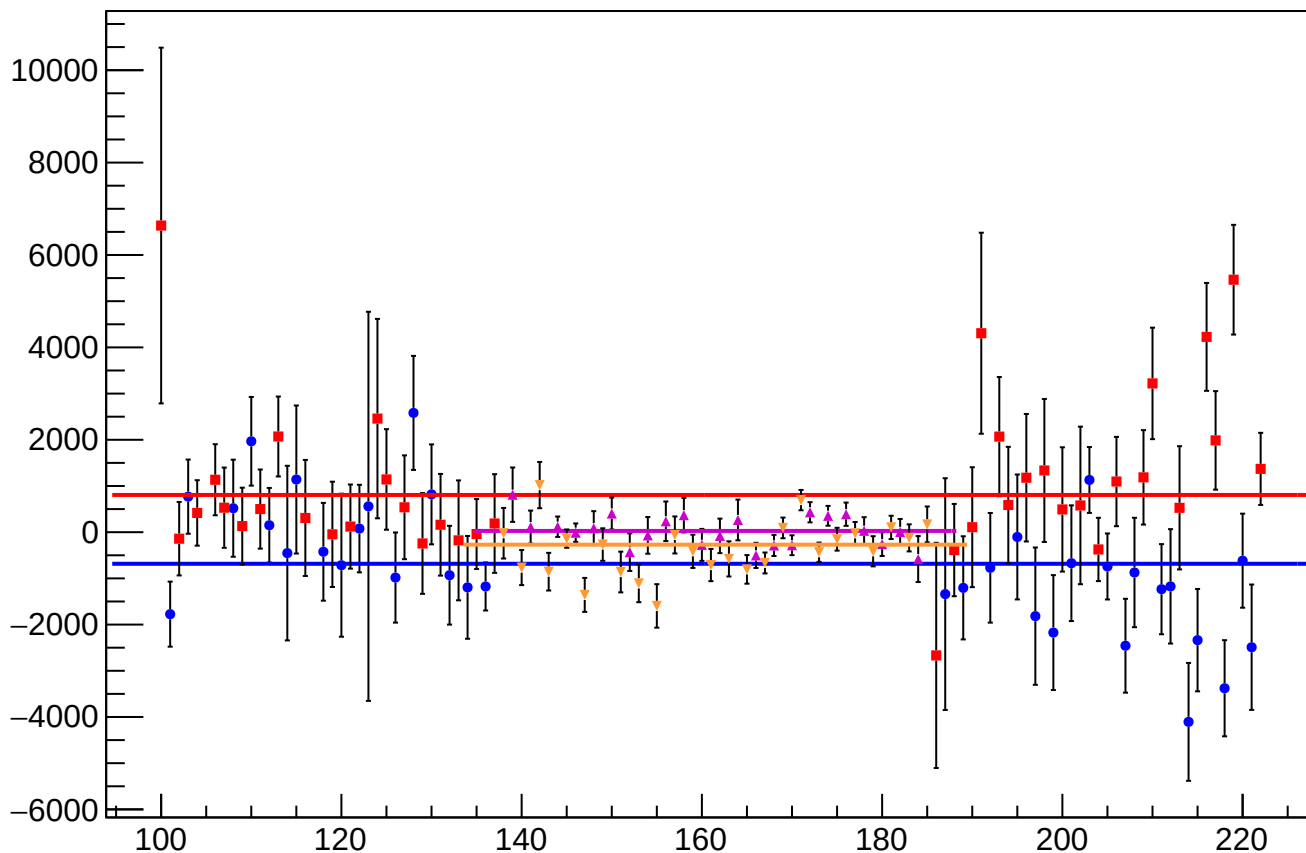
Right: 77.789 $\pm$ 0.010 χ^2 /NDF: 11116547.0/72

In: 56.062 $\pm$ 0.007 χ^2 /NDF: 9160520.4/57

Out: 56.079 $\pm$ 0.007 χ^2 /NDF: 10308801.6/62

All: 56.071 $\pm$ 0.005 χ^2 /NDF: 19469324.9/120

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -683.650 $\pm$ 173.233 χ^2 /NDF: 58.4/34

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 806.063 $\pm$ 170.098 χ^2 /NDF: 53.2/37

Left In: 27.271 $\pm$ 60.430 χ^2 /NDF:25.1/22

Left: -122.095 $\pm$ 42.641 χ^2 /NDF: 107.3/47

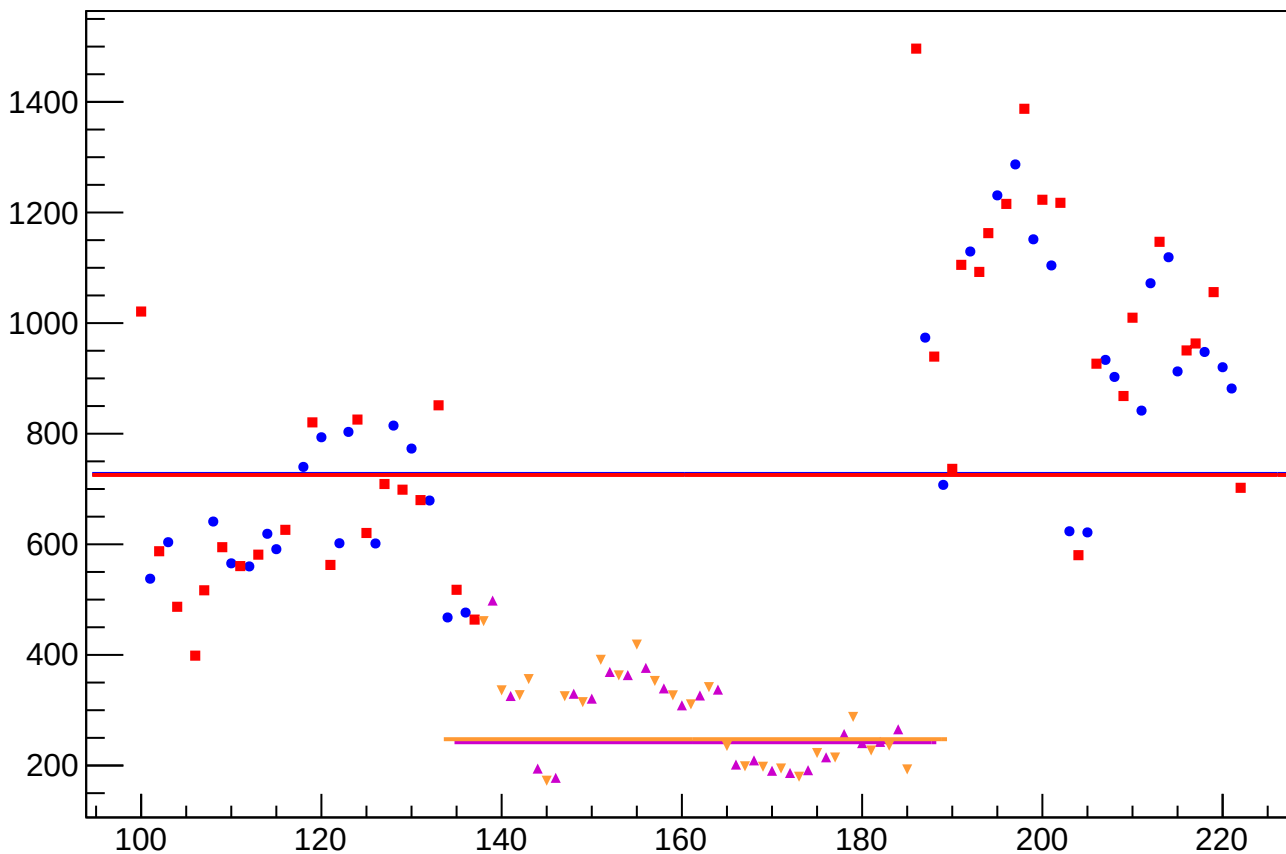
Right: 74.808 $\pm$ 121.371 χ^2 /NDF: 149.3/72

In: -49.854 $\pm$ 57.058 χ^2 /NDF:98.5/57

Out: -150.490 $\pm$ 56.732 χ^2 /NDF:158.9/62

All: -100.461 $\pm$ 40.230 χ^2 /NDF: 258.9/120

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 727.218 $\pm$ 0.122 χ^2 /NDF: 3086181.1/34

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 725.425 $\pm$ 0.120 χ^2 /NDF: 4032442.5/37

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

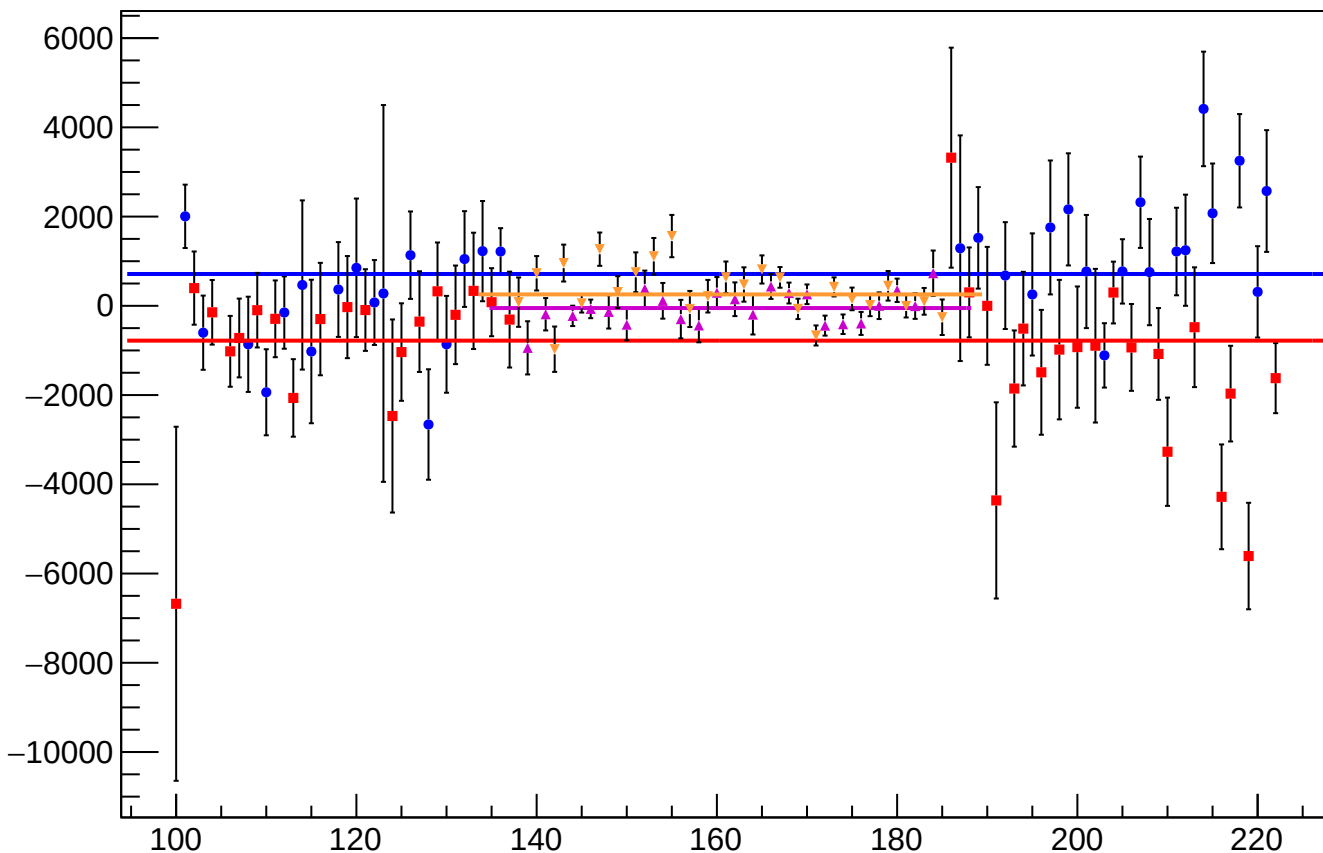
Right: 726.305 $\pm$ 0.086 χ^2 /NDF: 7118732.6/72

In: 294.744 $\pm$ 0.040 χ^2 /NDF: 19534035.3/57

Out: 300.726 $\pm$ 0.040 χ^2 /NDF: 20841790.3/62

All: 297.752 $\pm$ 0.028 χ^2 /NDF: 40386881.9/120

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 713.419+/-174.738 χ^2/NDF : 58.9/34

Left Out: 255.995+/-61.418 χ^2/NDF :63.6/24

Right Out: -780.441+/-171.837 χ^2/NDF : 56.1/37

Left In: -49.832+/-61.781 χ^2/NDF :27.5/22

Left: 103.982+/-43.557 χ^2/NDF : 103.4/47

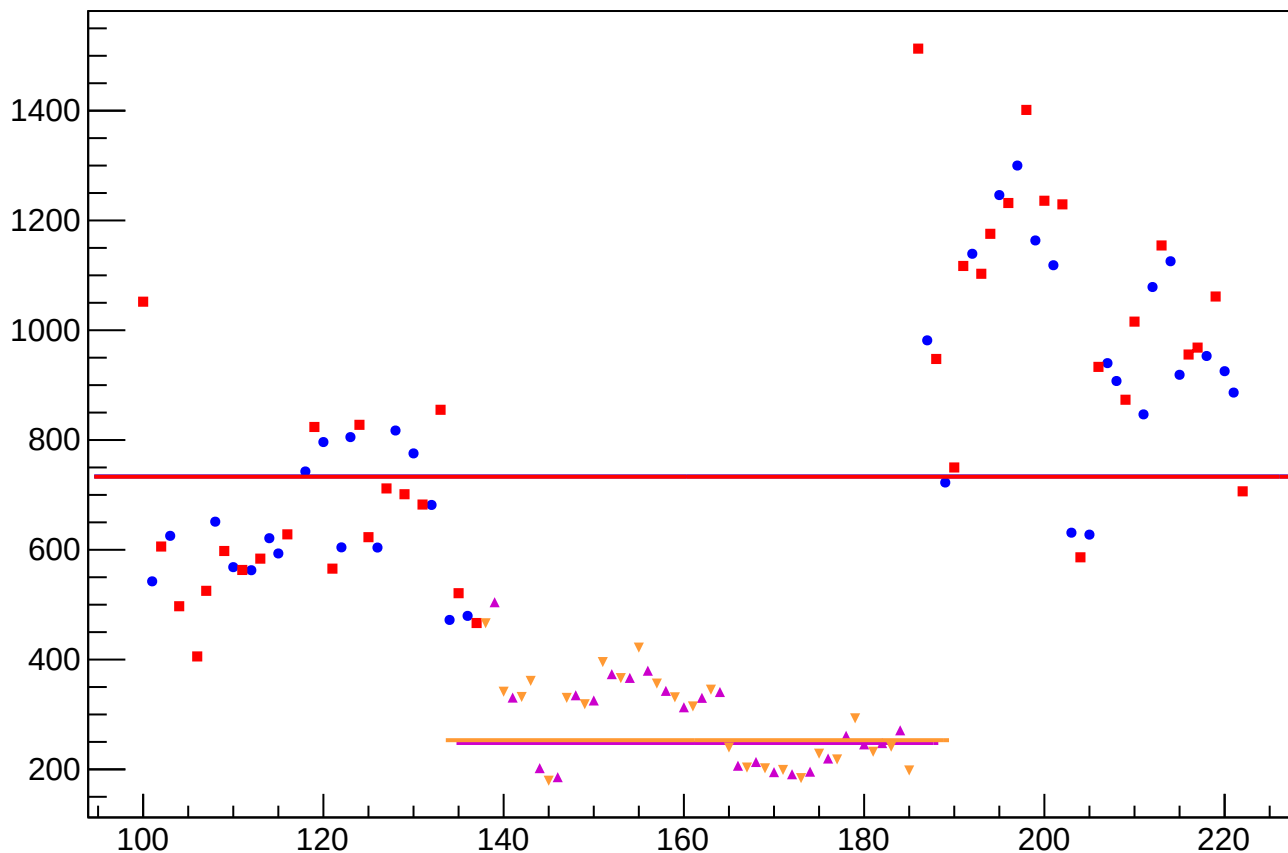
Right: -46.015+/-122.520 χ^2/NDF : 152.1/72

In: 34.978+/-58.248 χ^2/NDF :103.4/57

Out: 138.588+/-57.835 χ^2/NDF :152.0/62

All: 87.152+/-41.041 χ^2/NDF : 256.9/120

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 733.666 $\pm$ 0.124 χ^2 /NDF: 3078151.0/34

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 733.124 $\pm$ 0.122 χ^2 /NDF: 3987106.1/37

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF:2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

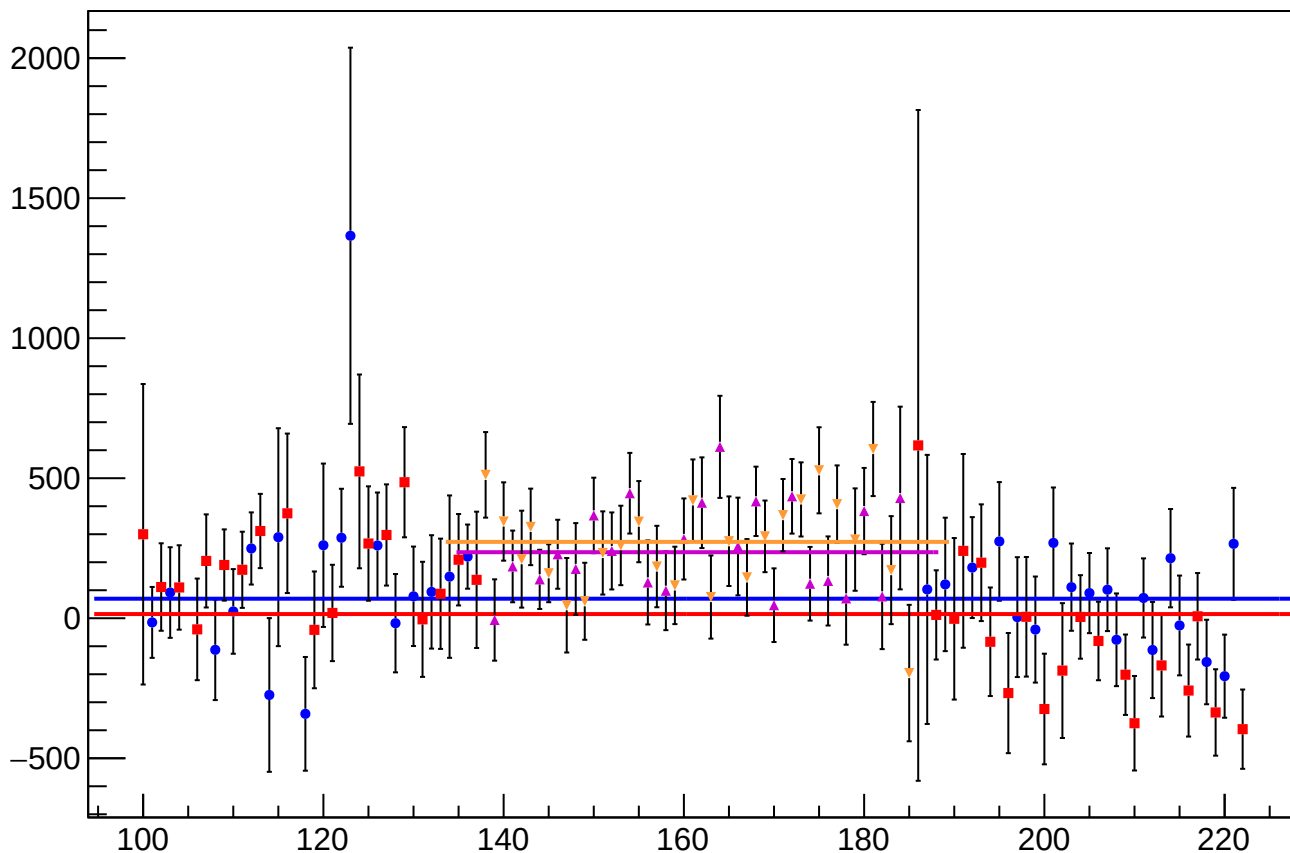
Right: 733.390 $\pm$ 0.087 χ^2 /NDF: 7065266.8/72

In: 302.027 $\pm$ 0.041 χ^2 /NDF:19150853.1/57

Out: 307.509 $\pm$ 0.041 χ^2 /NDF:20490061.6/62

All: 304.788 $\pm$ 0.029 χ^2 /NDF: 39649837.5/12

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 69.756+/-29.937 χ^2/NDF : 30.8/34

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 14.914+/-29.277 χ^2/NDF : 58.6/37

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

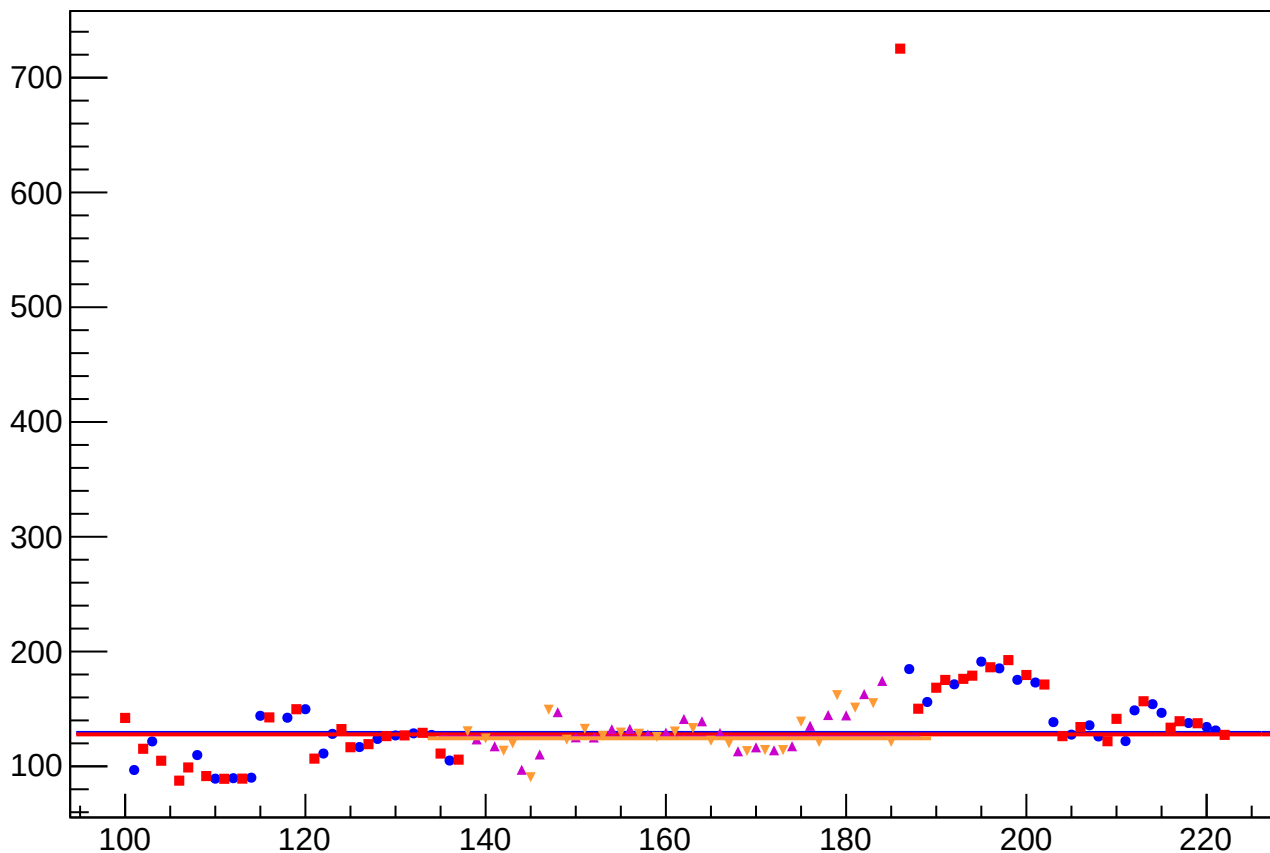
Right: 41.724+/-20.931 χ^2/NDF : 91.1/72

In: 151.965+/-21.272 χ^2/NDF :70.7/57

Out: 144.044+/-20.682 χ^2/NDF :124.9/62

All: 147.893+/-14.829 χ^2/NDF : 195.6/120

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 129.083+/-0.021 χ^2/NDF : 1469168.2/34

Left Out: 124.429+/-0.021 χ^2/NDF : 539731.8/24

Right Out: 127.823+/-0.021 χ^2/NDF : 2307936.8/37

Left In: 125.205+/-0.021 χ^2/NDF : 501388.2/22

Left: 124.804+/-0.015 χ^2/NDF : 1041801.9/47

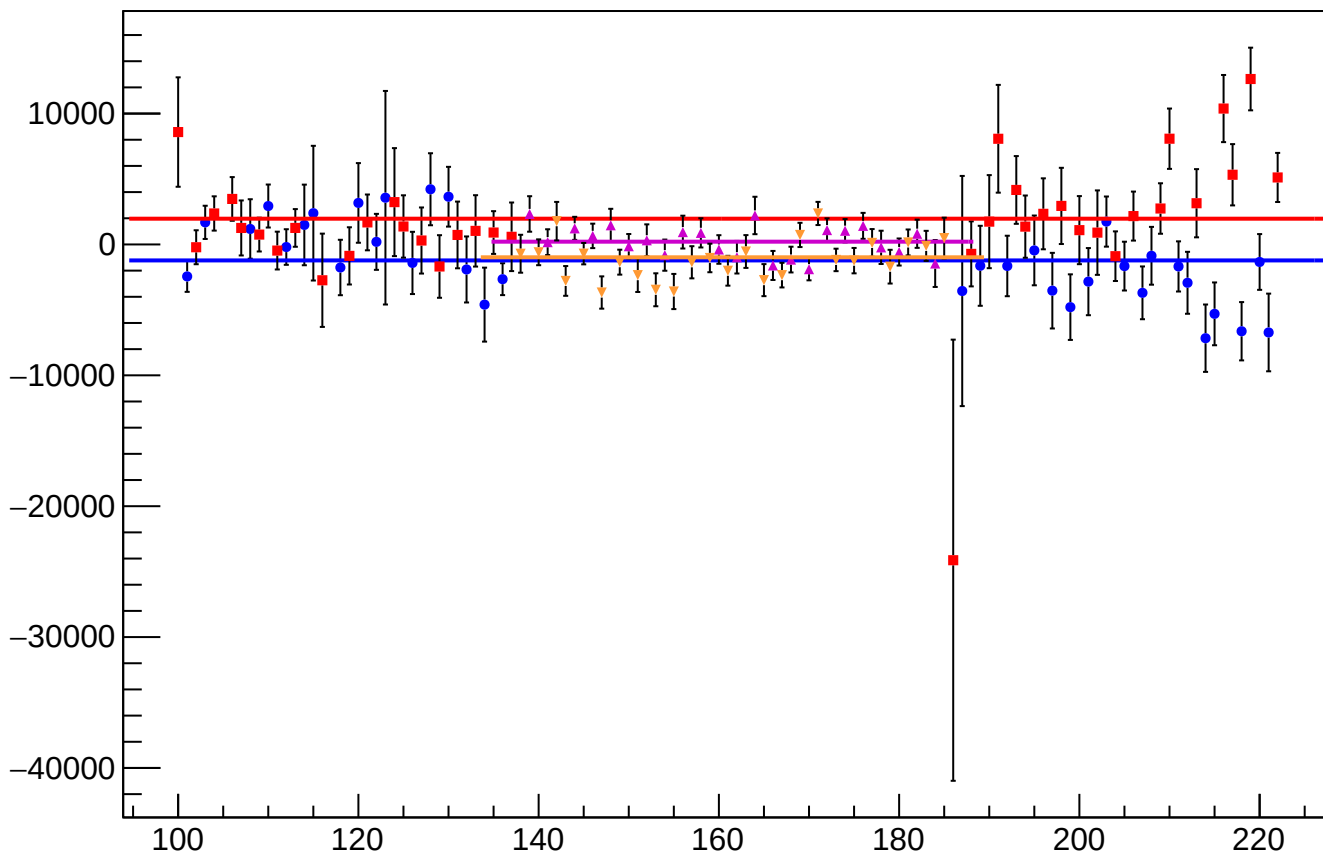
Right: 128.439+/-0.015 χ^2/NDF : 3778916.3/72

In: 127.163+/-0.015 χ^2/NDF : 1987174.1/57

Out: 126.123+/-0.015 χ^2/NDF : 2861136.9/62

All: 126.628+/-0.010 χ^2/NDF : 4850770.7/120

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1220.935 $\pm$ 357.799 χ^2 /NDF: 55.4/34

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF:47.2/24

Right Out: 1967.638 $\pm$ 345.993 χ^2 /NDF: 69.9/37

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

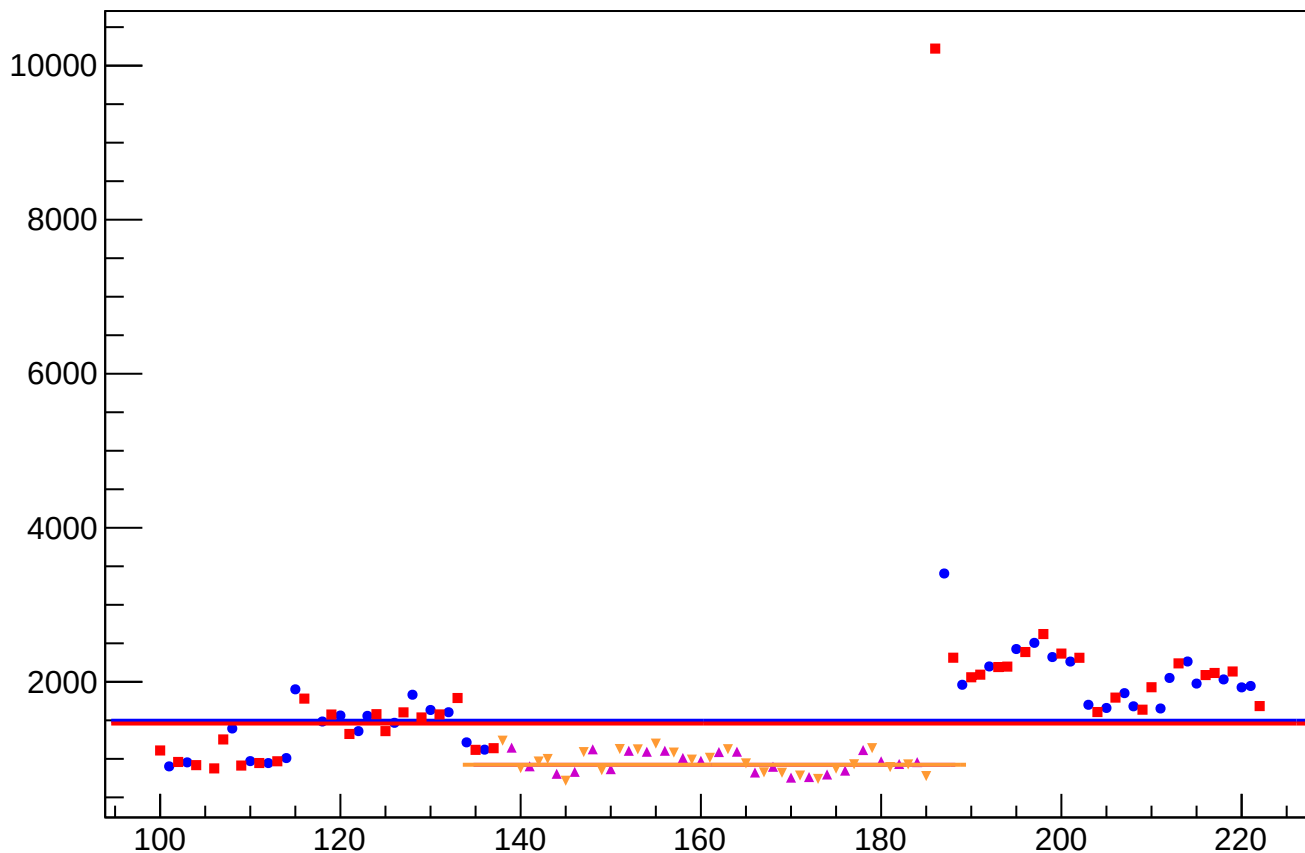
Right: 426.824 $\pm$ 248.723 χ^2 /NDF: 166.3/72

In: -190.078 $\pm$ 189.433 χ^2 /NDF:92.6/57

Out: -144.271 $\pm$ 184.455 χ^2 /NDF:169.1/62

All: -166.565 $\pm$ 132.154 χ^2 /NDF: 261.7/120

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1494.861+/-0.253 χ^2/NDF : 3683140.6/34

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1458.541+/-0.245 χ^2/NDF : 4944981.0/37

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

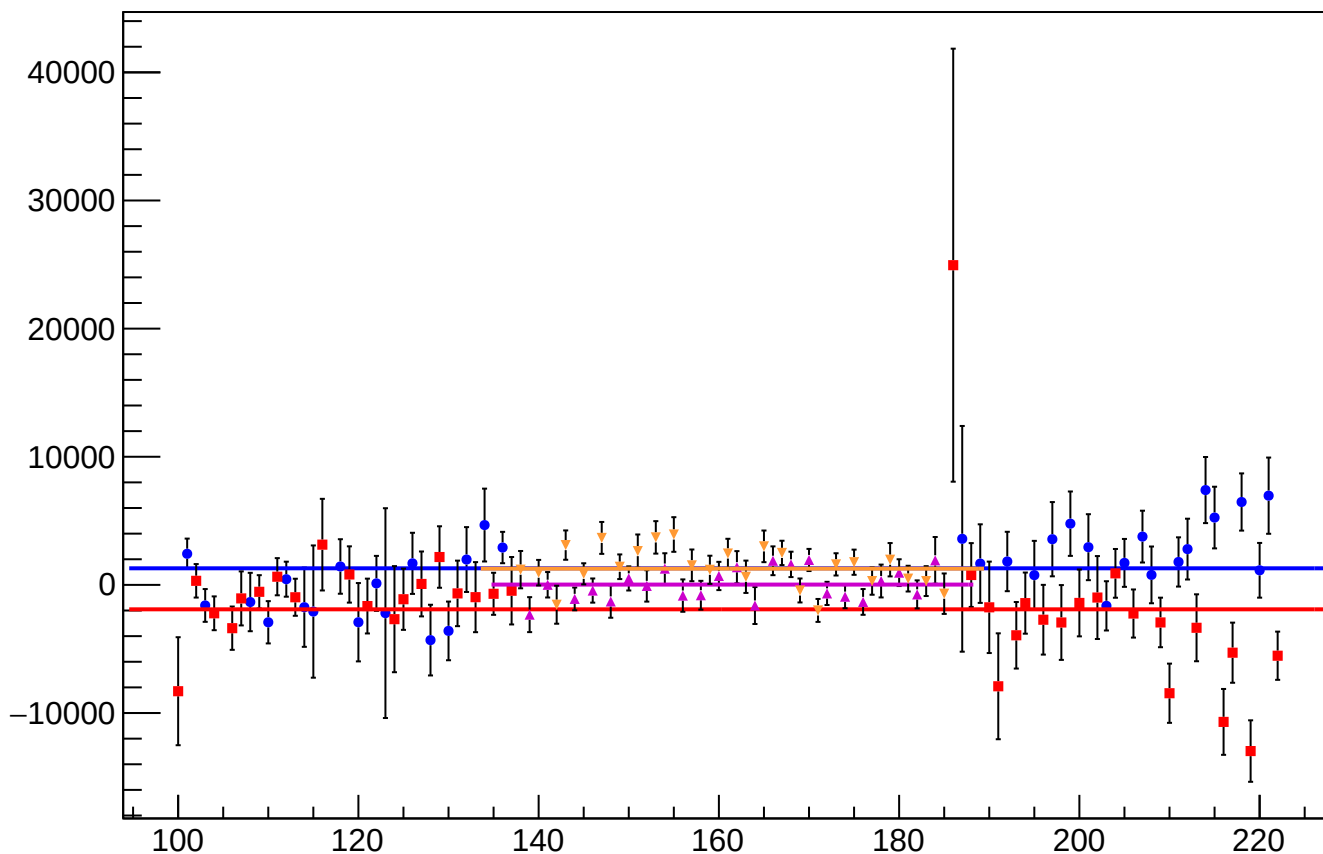
Right: 1476.092+/-0.176 χ^2/NDF : 8638771.1/72

In: 1082.753+/-0.134 χ^2/NDF : 8004462.0/57

Out: 1075.628+/-0.130 χ^2/NDF : 9210006.6/62

All: 1079.096+/-0.093 χ^2/NDF : 17215921.0/131

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1294.096 $\pm$ 359.253 χ^2 /NDF: 54.8/34

Left Out: 1267.344 $\pm$ 220.133 χ^2 /NDF: 44.9/24

Right Out: -1907.390 $\pm$ 347.546 χ^2 /NDF: 75.5/37

Left In: 23.478 $\pm$ 225.490 χ^2 /NDF: 27.2/22

Left: 660.362 $\pm$ 157.518 χ^2 /NDF: 87.7/47

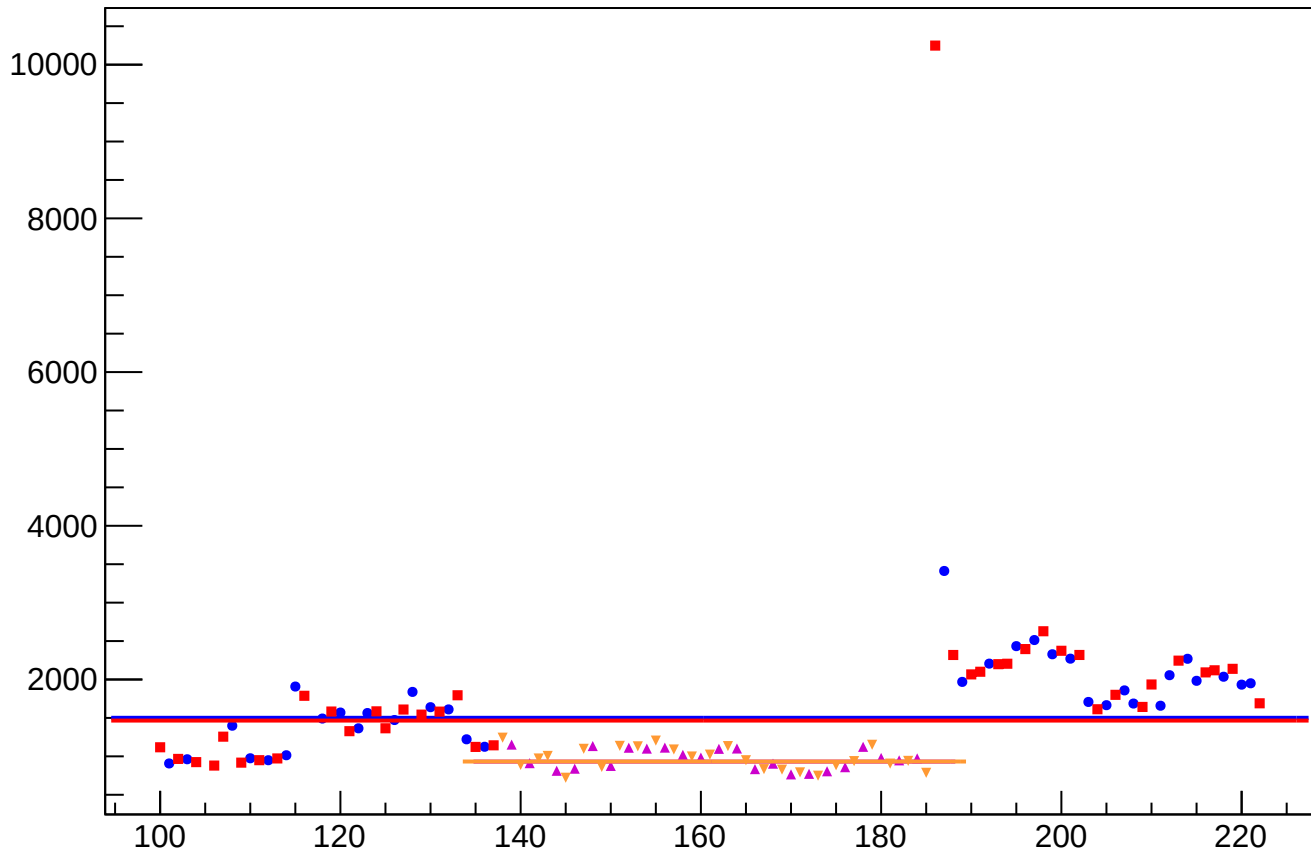
Right: -359.660 $\pm$ 249.789 χ^2 /NDF: 171.4/72

In: 382.580 $\pm$ 190.986 χ^2 /NDF: 91.0/57

Out: 358.357 $\pm$ 185.968 χ^2 /NDF: 180.0/62

All: 370.146 $\pm$ 133.238 χ^2 /NDF: 271.0/120

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1501.533+/-0.254 χ^2/NDF : 3656939.2/34

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1465.612+/-0.246 χ^2/NDF : 4912395.7/37

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

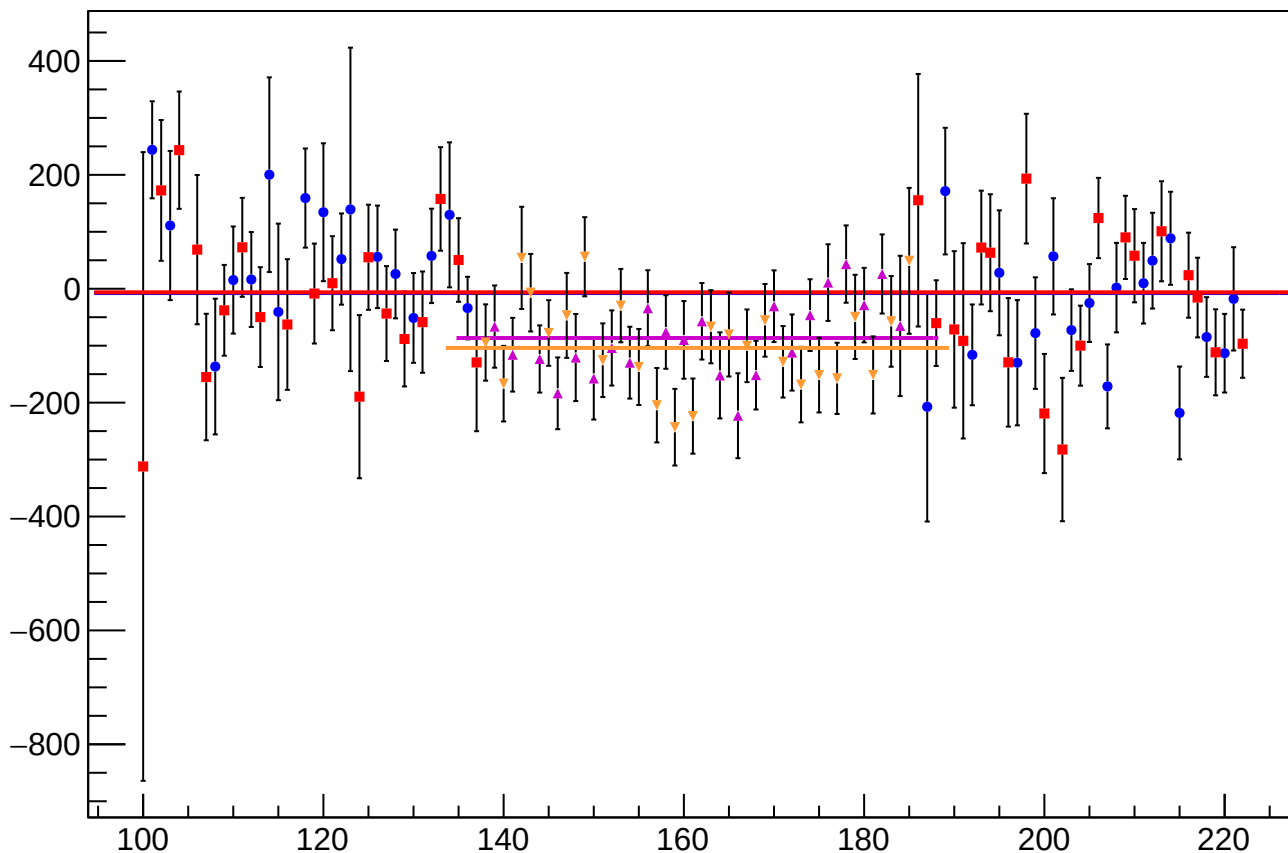
Right: 1482.978+/-0.177 χ^2/NDF : 8579663.6/72

In: 1092.598+/-0.135 χ^2/NDF : 7893717.1/57

Out: 1085.328+/-0.131 χ^2/NDF : 9097370.9/62

All: 1088.866+/-0.094 χ^2/NDF : 16992575.3/113

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -7.568 $\pm$ 14.930 χ^2/NDF : 46.6/34

Left Out: -103.899 $\pm$ 13.642 χ^2/NDF :30.0/24

Right Out: -6.290 $\pm$ 14.862 χ^2/NDF : 49.6/37

Left In: -86.542 $\pm$ 14.120 χ^2/NDF :21.4/22

Left: -95.520 $\pm$ 9.811 χ^2/NDF : 52.1/47

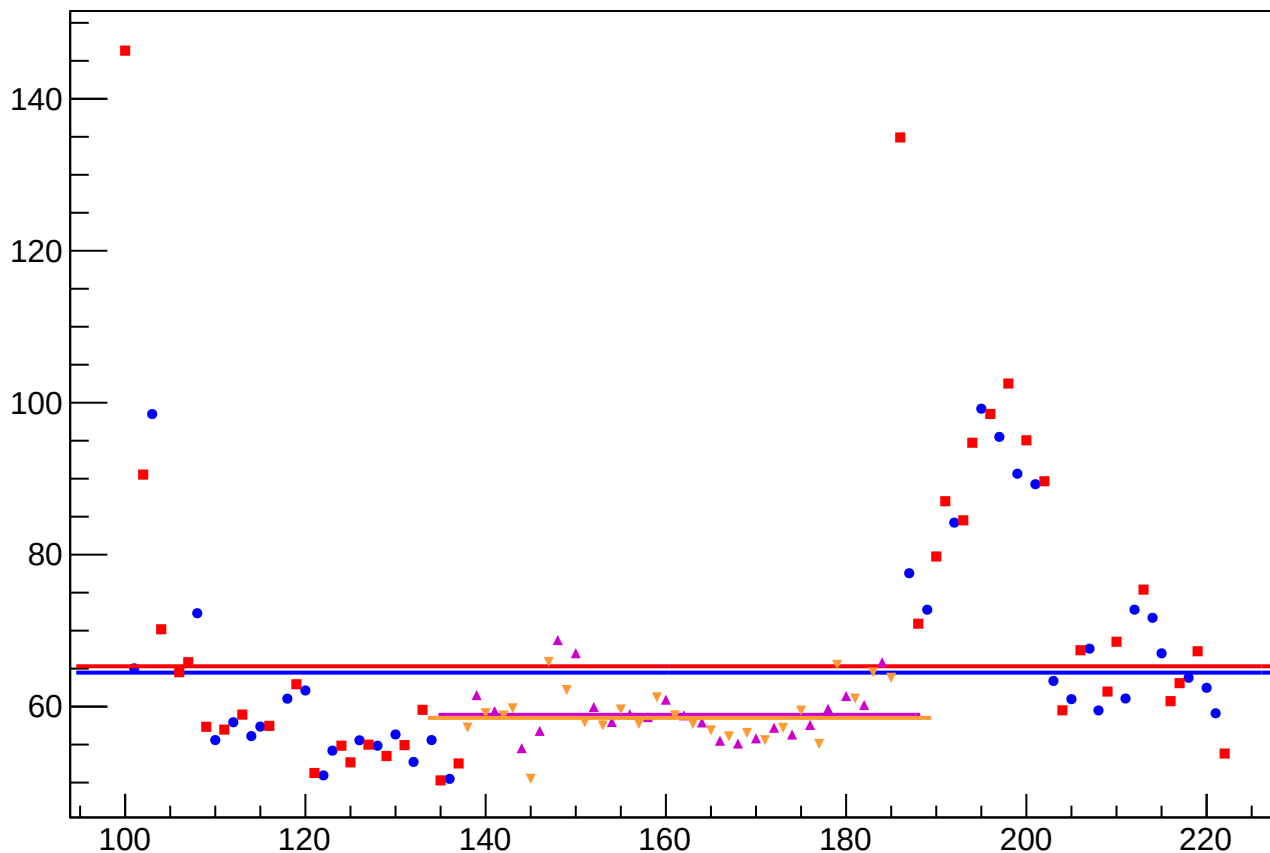
Right: -6.926 $\pm$ 10.533 χ^2/NDF : 96.2/72

In: -49.256 $\pm$ 10.259 χ^2/NDF :82.7/57

Out: -59.264 $\pm$ 10.050 χ^2/NDF :103.0/62

All: -54.363 $\pm$ 7.179 χ^2/NDF : 186.2/120

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.471 $\pm$ 0.011 χ^2 /NDF: 1304553.2/34

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 65.308 $\pm$ 0.011 χ^2 /NDF: 1766333.0/37

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

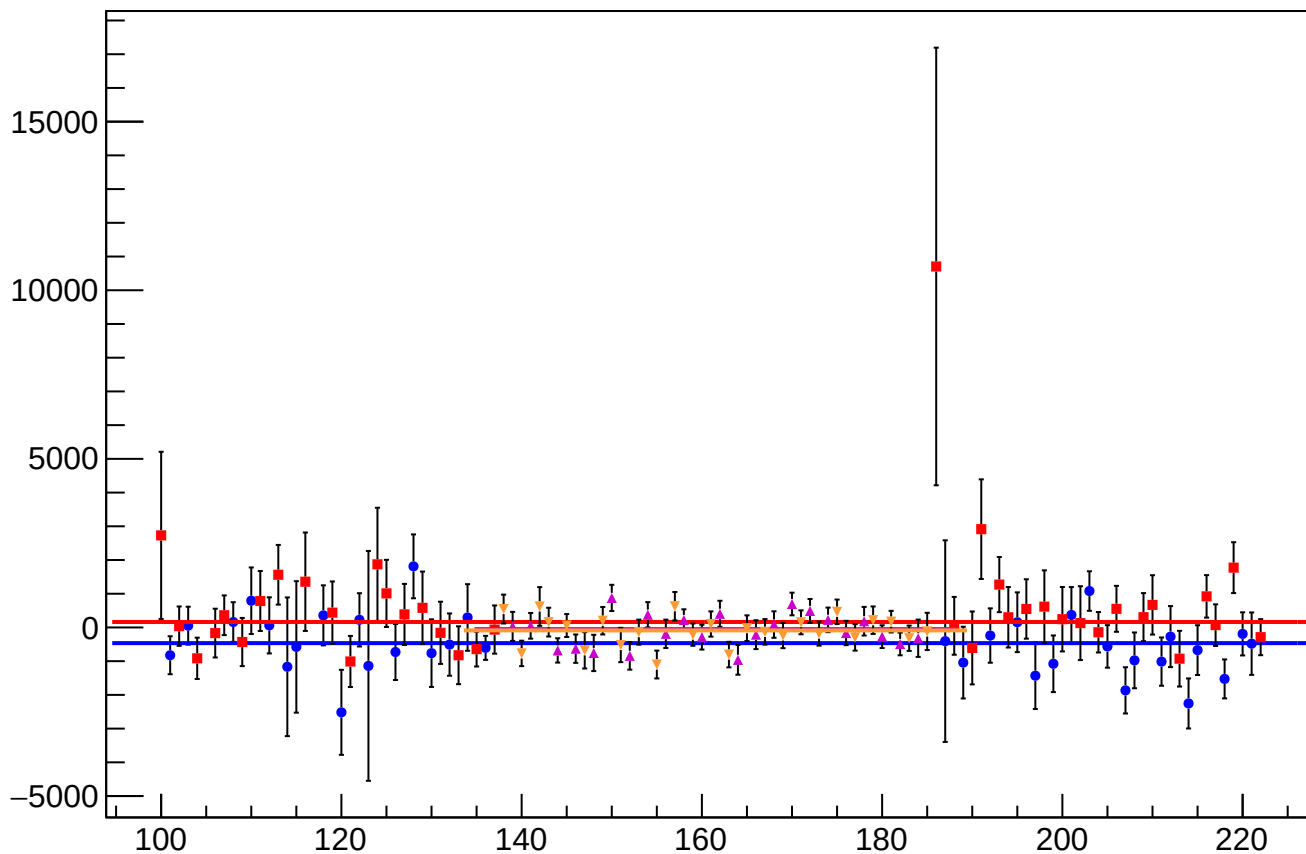
Right: 64.891 $\pm$ 0.007 χ^2 /NDF: 3074050.2/72

In: 61.537 $\pm$ 0.007 χ^2 /NDF:1560782.5/57

Out: 61.620 $\pm$ 0.007 χ^2 /NDF:2116489.9/62

All: 61.580 $\pm$ 0.005 χ^2 /NDF: 3677339.8/120

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -465.122 ± 129.579 $\chi^2/\text{NDF}: 40.5/34$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 162.681 ± 129.408 $\chi^2/\text{NDF}: 35.6/37$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

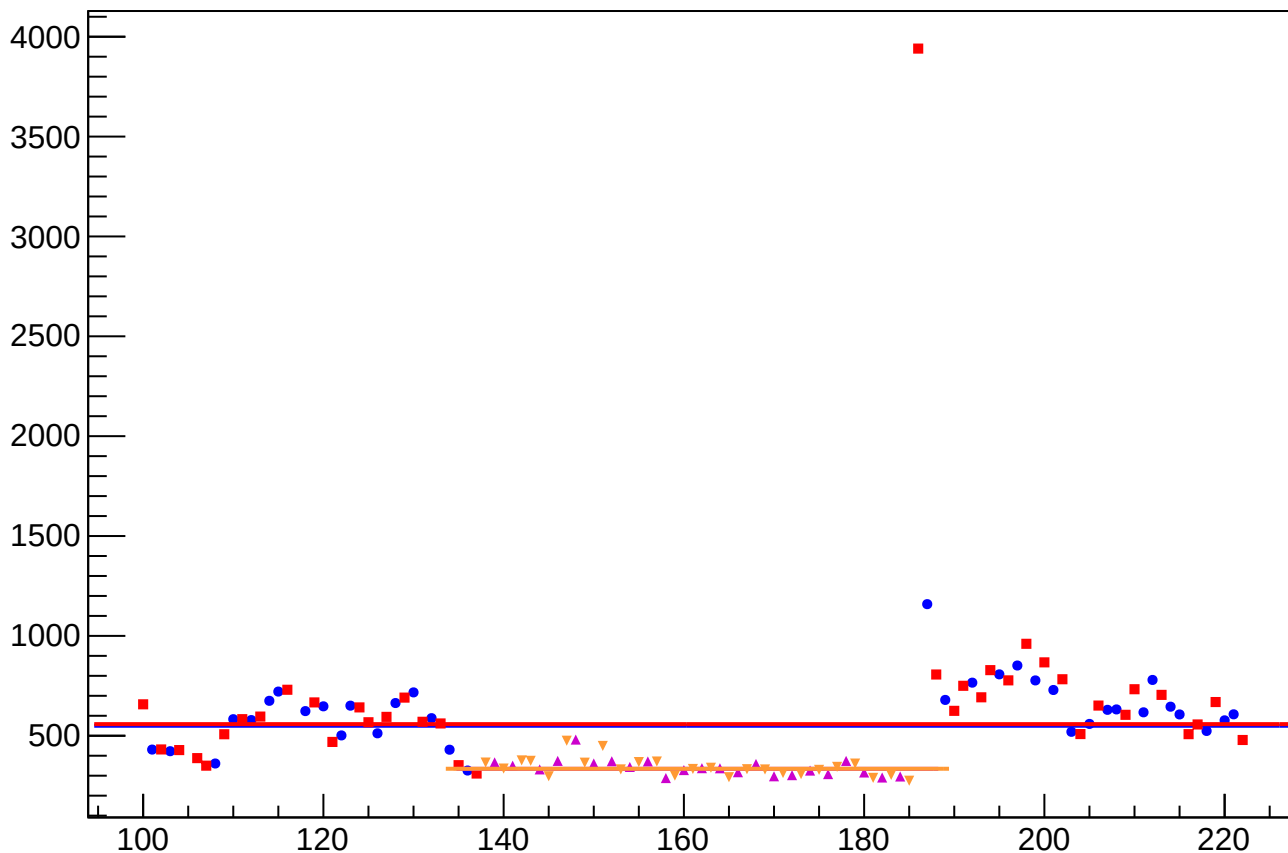
Right: -150.805 ± 91.566 $\chi^2/\text{NDF}: 87.9/72$

In: -164.790 ± 68.408 $\chi^2/\text{NDF}: 83.3/57$

Out: -20.102 ± 67.152 $\chi^2/\text{NDF}: 66.1/62$

All: -91.105 ± 47.922 $\chi^2/\text{NDF}: 151.7/120$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 550.093+/-0.092 χ^2/NDF : 2484606.2/34

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 558.182+/-0.092 χ^2/NDF : 3228845.0/37

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

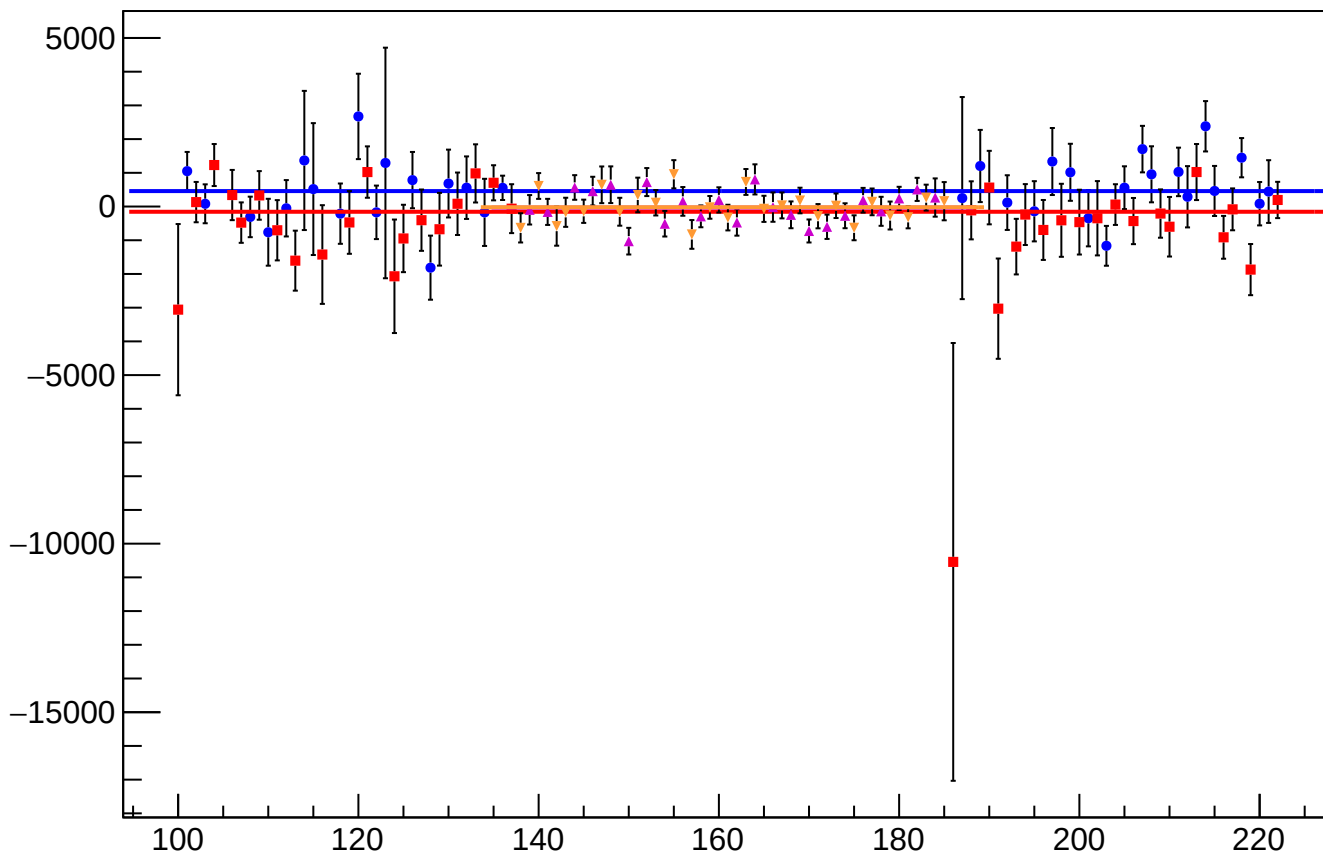
Right: 554.143+/-0.065 χ^2/NDF : 5717352.8/72

In: 394.332+/-0.048 χ^2/NDF : 6888294.9/57

Out: 394.914+/-0.047 χ^2/NDF : 8076919.8/62

All: 394.628+/-0.034 χ^2/NDF : 14965288.2/12

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 458.143 ± 130.755 $\chi^2/\text{NDF}: 40.9/34$

Left Out: -20.895 ± 79.812 $\chi^2/\text{NDF}: 27.2/24$

Right Out: -155.067 ± 130.623 $\chi^2/\text{NDF}: 39.1/37$

Left In: -31.800 ± 81.839 $\chi^2/\text{NDF}: 34.0/22$

Left: -26.211 ± 57.139 $\chi^2/\text{NDF}: 61.3/47$

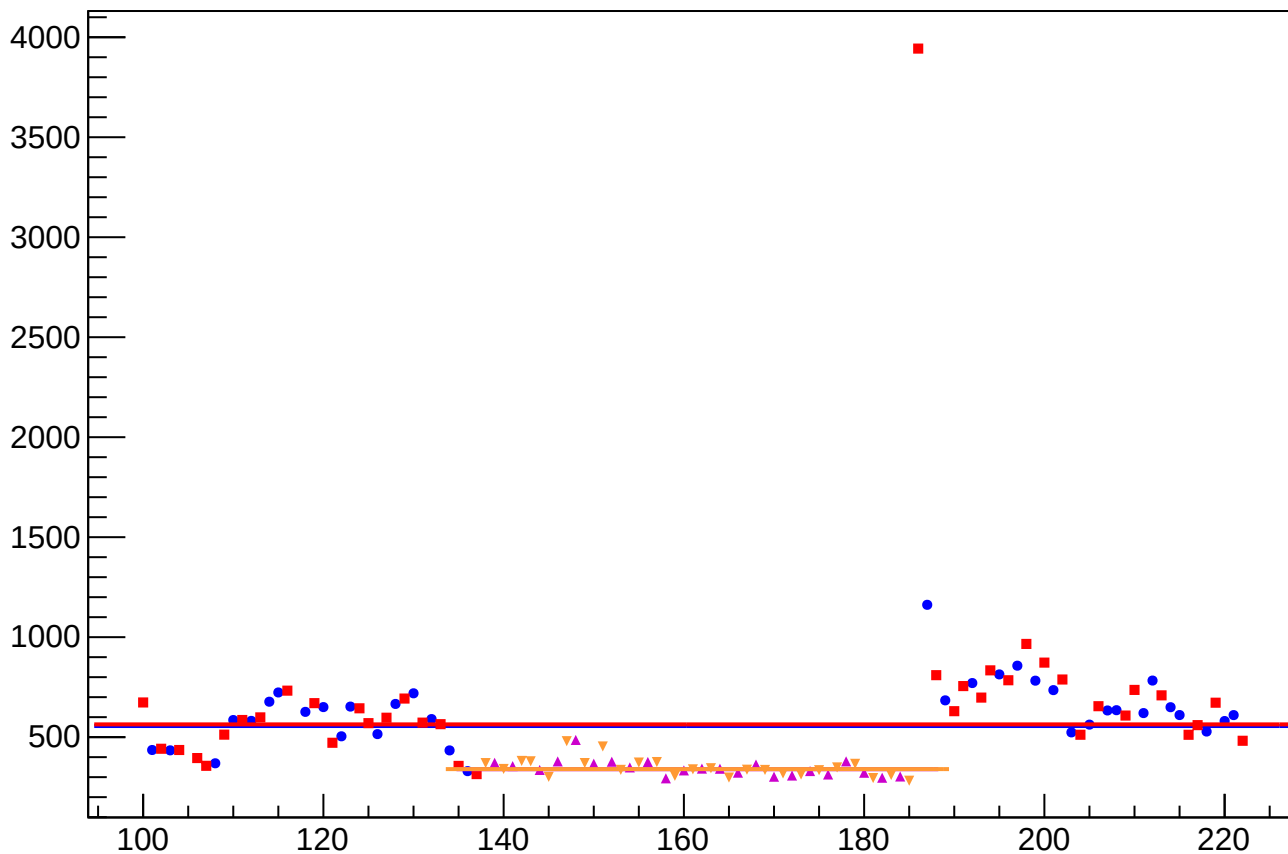
Right: 151.229 ± 92.411 $\chi^2/\text{NDF}: 91.0/72$

In: 106.109 ± 69.372 $\chi^2/\text{NDF}: 85.0/57$

Out: -57.369 ± 68.105 $\chi^2/\text{NDF}: 67.1/62$

All: 22.864 ± 48.599 $\chi^2/\text{NDF}: 154.9/120$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 555.660 $\pm$ 0.092 χ^2 /NDF: 2414793.4/34

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 563.913 $\pm$ 0.092 χ^2 /NDF: 3159000.8/37

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

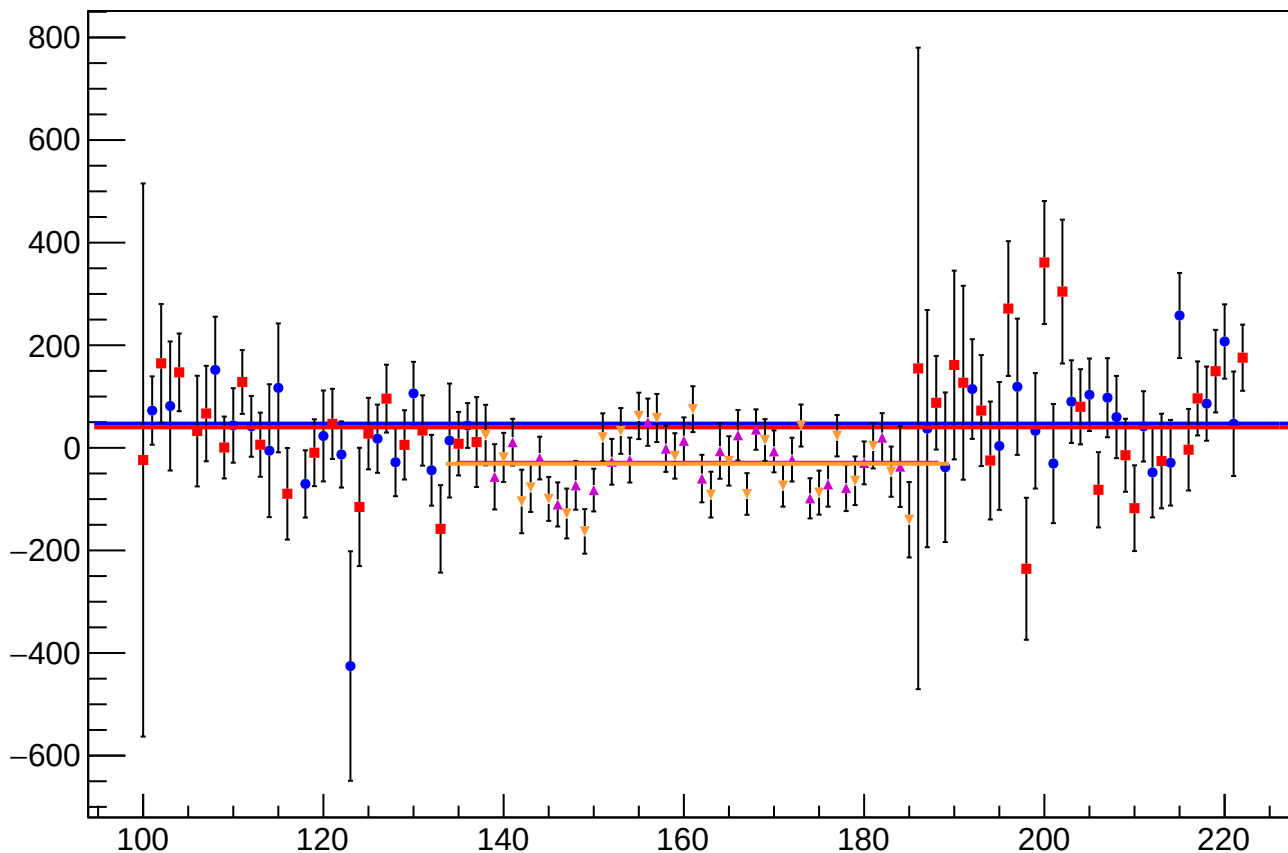
Right: 559.791 $\pm$ 0.065 χ^2 /NDF: 5577782.4/72

In: 400.432 $\pm$ 0.049 χ^2 /NDF: 6717599.2/57

Out: 401.042 $\pm$ 0.048 χ^2 /NDF: 7898099.7/62

All: 400.743 $\pm$ 0.034 χ^2 /NDF: 14615777.8/119

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 47.241+/-13.653 χ^2/NDF : 31.3/34

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 39.913+/-13.563 χ^2/NDF : 51.4/37

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

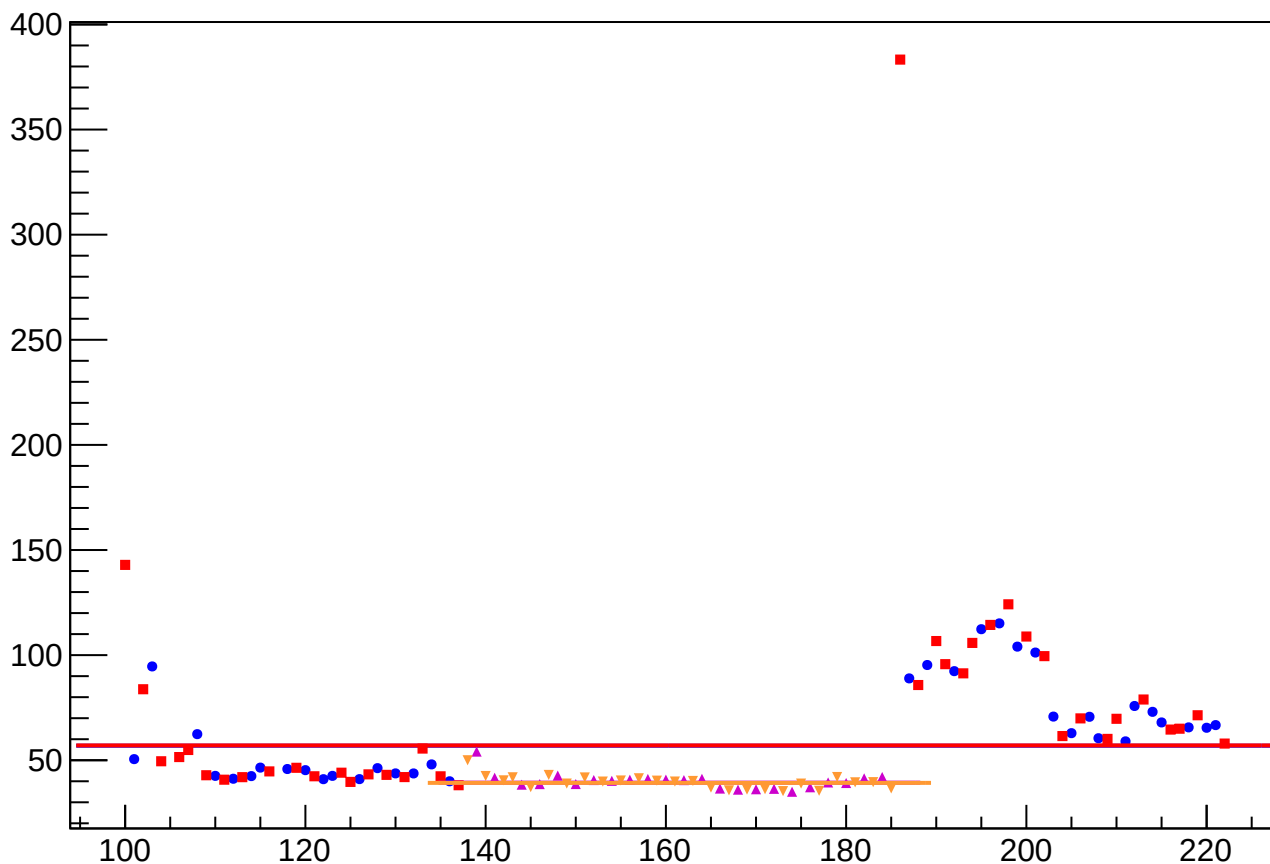
Right: 43.553+/-9.622 χ^2/NDF : 82.8/72

In: -4.344+/-7.770 χ^2/NDF : 74.9/57

Out: -8.797+/-7.596 χ^2/NDF : 122.7/62

All: -6.621+/-5.432 χ^2/NDF : 197.8/120

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.916 $\pm$ 0.010 χ^2 /NDF: 3611138.6/34

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 57.049 $\pm$ 0.010 χ^2 /NDF: 4635191.6/37

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

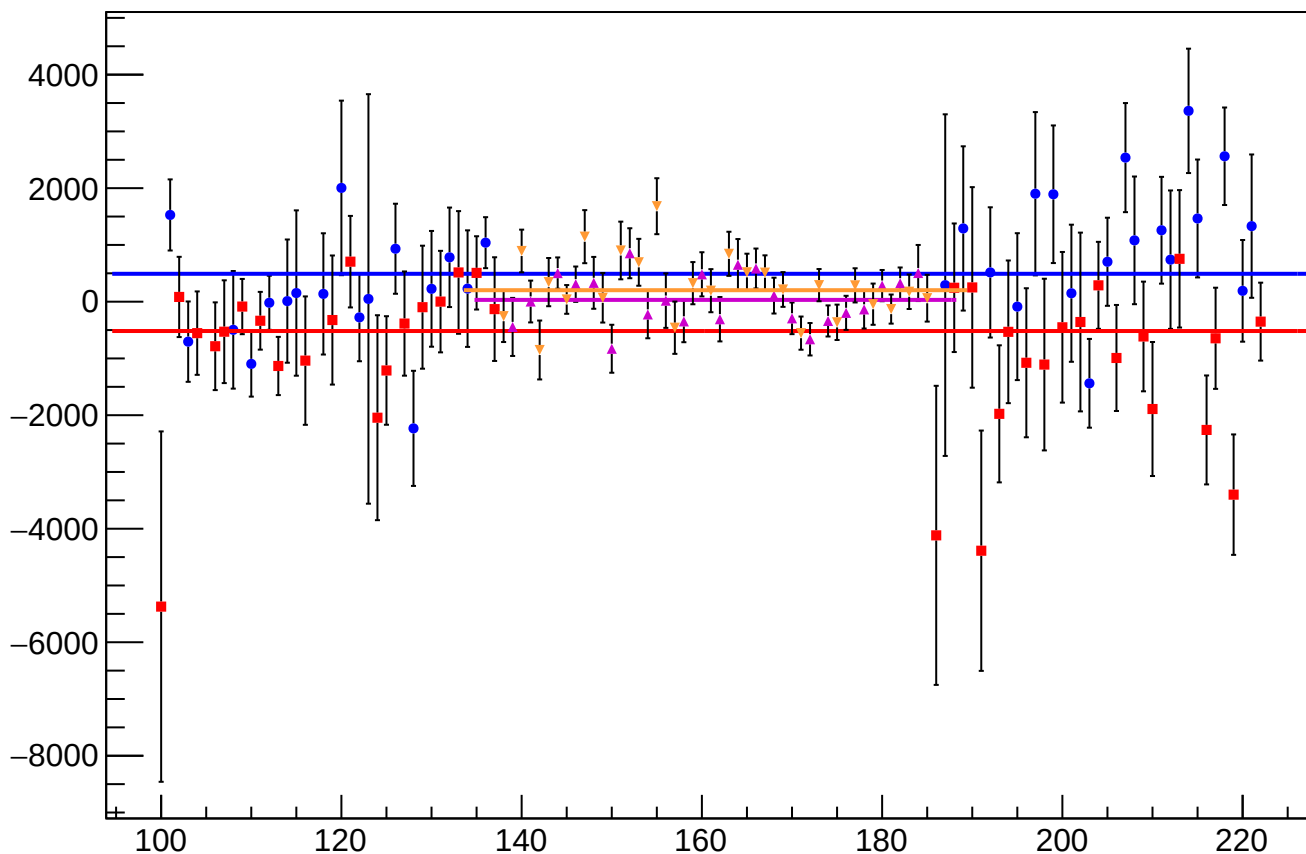
Right: 56.983 $\pm$ 0.007 χ^2 /NDF: 8246424.9/72

In: 45.032 $\pm$ 0.005 χ^2 /NDF: 6068377.2/57

Out: 44.823 $\pm$ 0.005 χ^2 /NDF: 7205036.7/62

All: 44.925 $\pm$ 0.004 χ^2 /NDF: 13274148.5/120

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 491.350 $\pm$ 151.210 χ^2 /NDF: 55.5/34

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -516.816 $\pm$ 146.775 χ^2 /NDF: 35.8/37

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

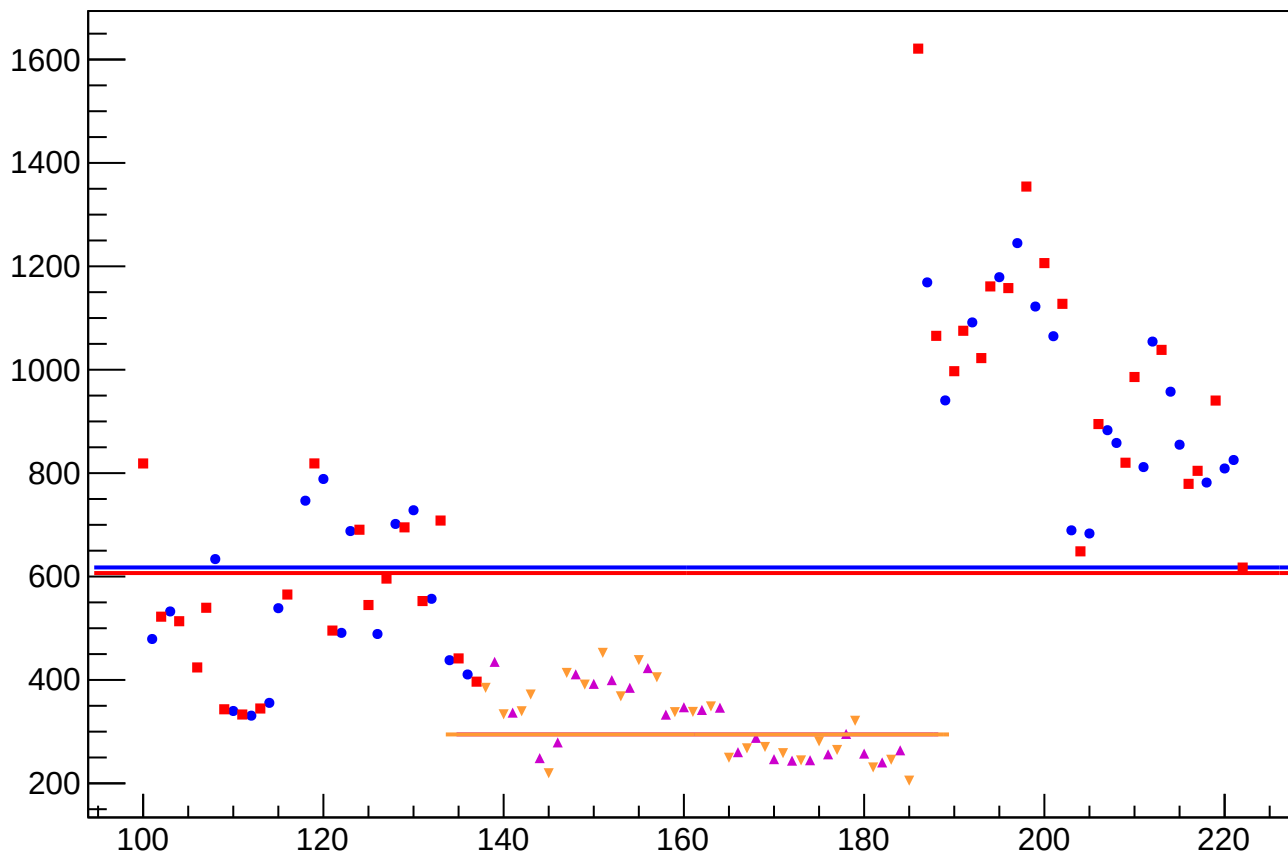
Right: -27.733 $\pm$ 105.319 χ^2 /NDF: 114.2/72

In: 116.723 $\pm$ 65.080 χ^2 /NDF:96.4/57

Out: 67.779 $\pm$ 63.495 χ^2 /NDF:100.2/62

All: 91.647 $\pm$ 45.448 χ^2 /NDF: 196.8/120

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 617.594 $\pm$ 0.107 χ^2 /NDF: 5148450.6/34

Left Out: 294.591 $\pm$ 0.050 χ^2 /NDF: 1680474.5/24

Right Out: 606.743 $\pm$ 0.104 χ^2 /NDF: 6306699.1/37

Left In: 294.722 $\pm$ 0.051 χ^2 /NDF: 1297310.3/22

Left: 294.655 $\pm$ 0.036 χ^2 /NDF: 2977788.1/47

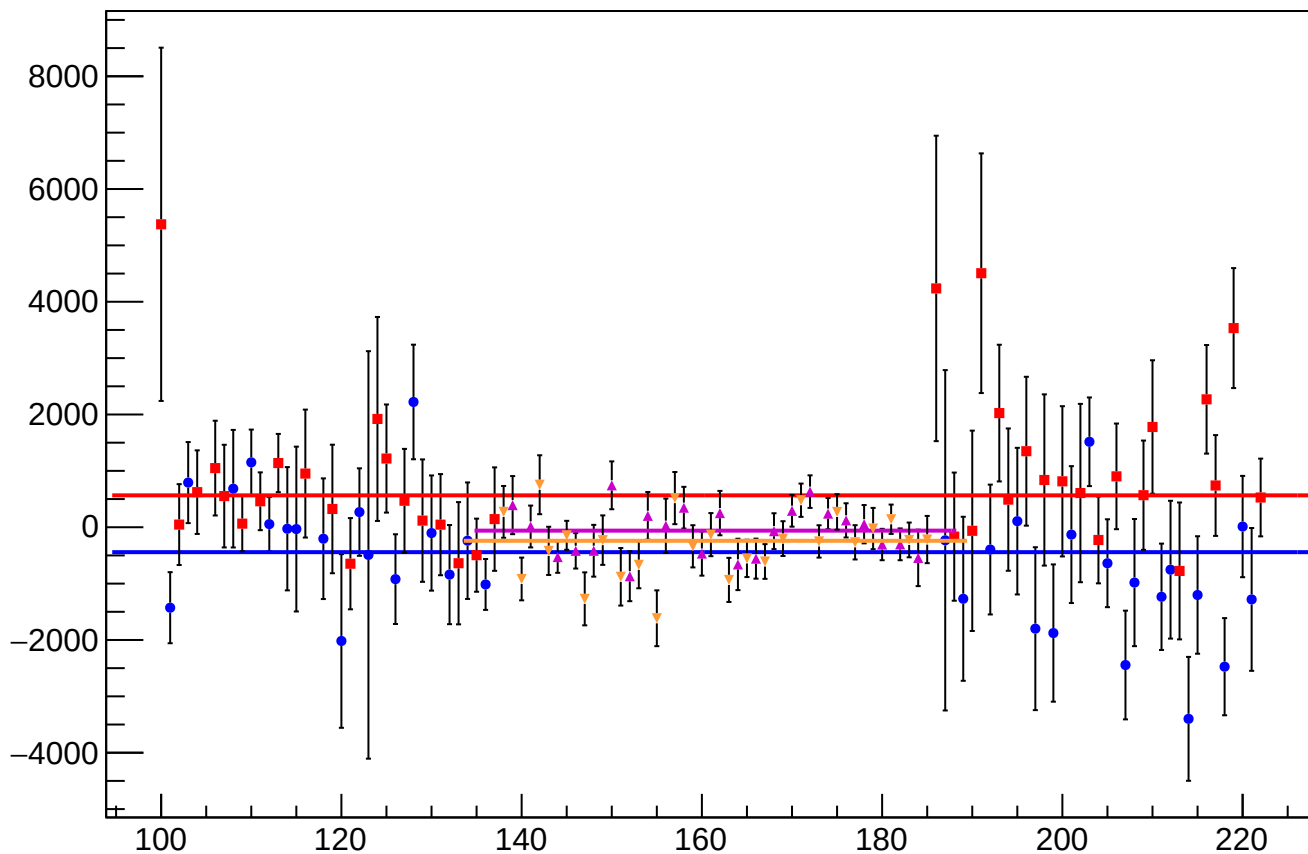
Right: 612.007 $\pm$ 0.074 χ^2 /NDF: 11460452.6/72

In: 354.531 $\pm$ 0.046 χ^2 /NDF: 13875281.8/57

Out: 353.009 $\pm$ 0.045 χ^2 /NDF: 15340273.3/62

All: 353.751 $\pm$ 0.032 χ^2 /NDF: 29216116.2/121

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -442.104 ± 152.022 $\chi^2/\text{NDF}: 54.9/34$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 565.593 ± 148.001 $\chi^2/\text{NDF}: 35.7/37$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

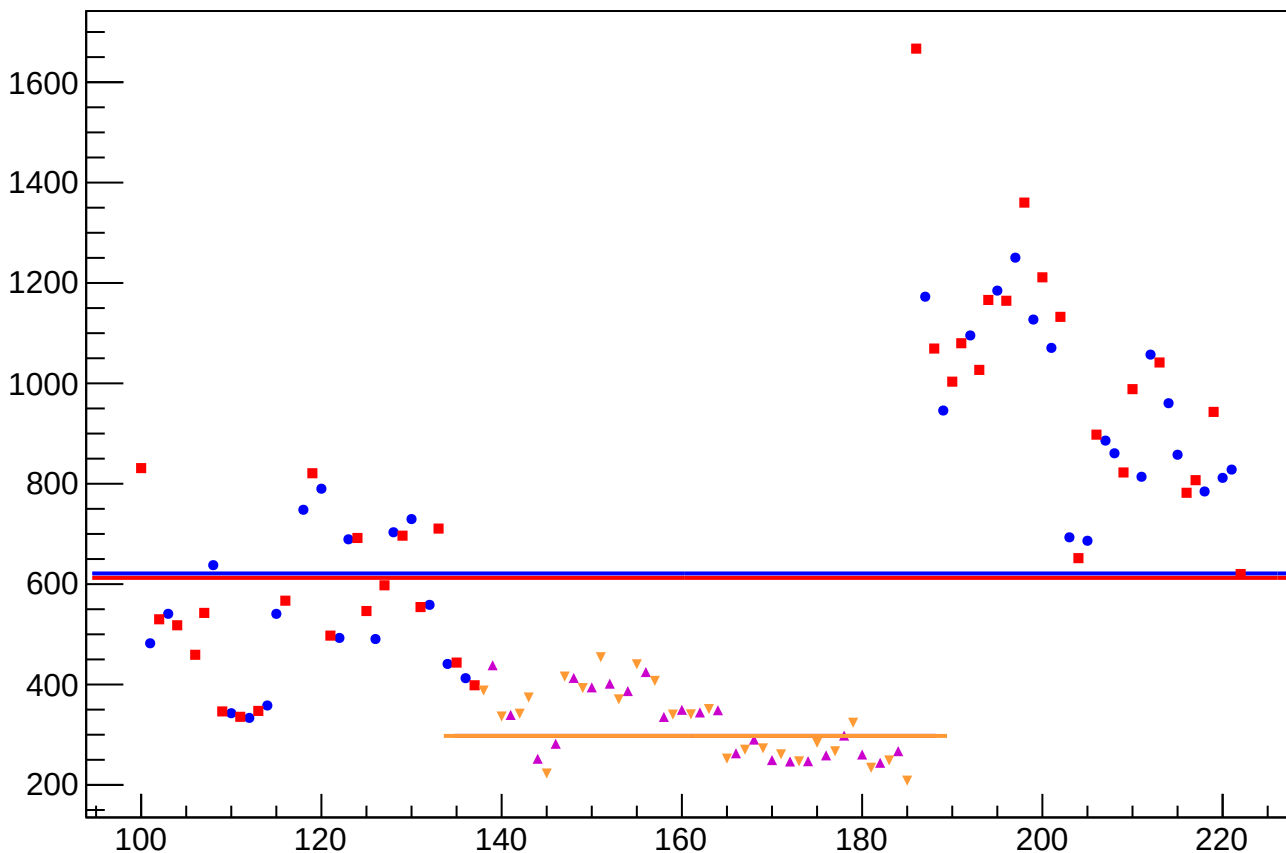
Right: 75.249 ± 106.045 $\chi^2/\text{NDF}: 113.2/72$

In: -131.529 ± 65.651 $\chi^2/\text{NDF}: 91.0/57$

Out: -89.230 ± 64.089 $\chi^2/\text{NDF}: 102.7/62$

All: -109.870 ± 45.860 $\chi^2/\text{NDF}: 193.9/120$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 621.256+/-0.107 χ^2/NDF : 5113202.5/34

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 612.498+/-0.105 χ^2/NDF : 6226098.4/37

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

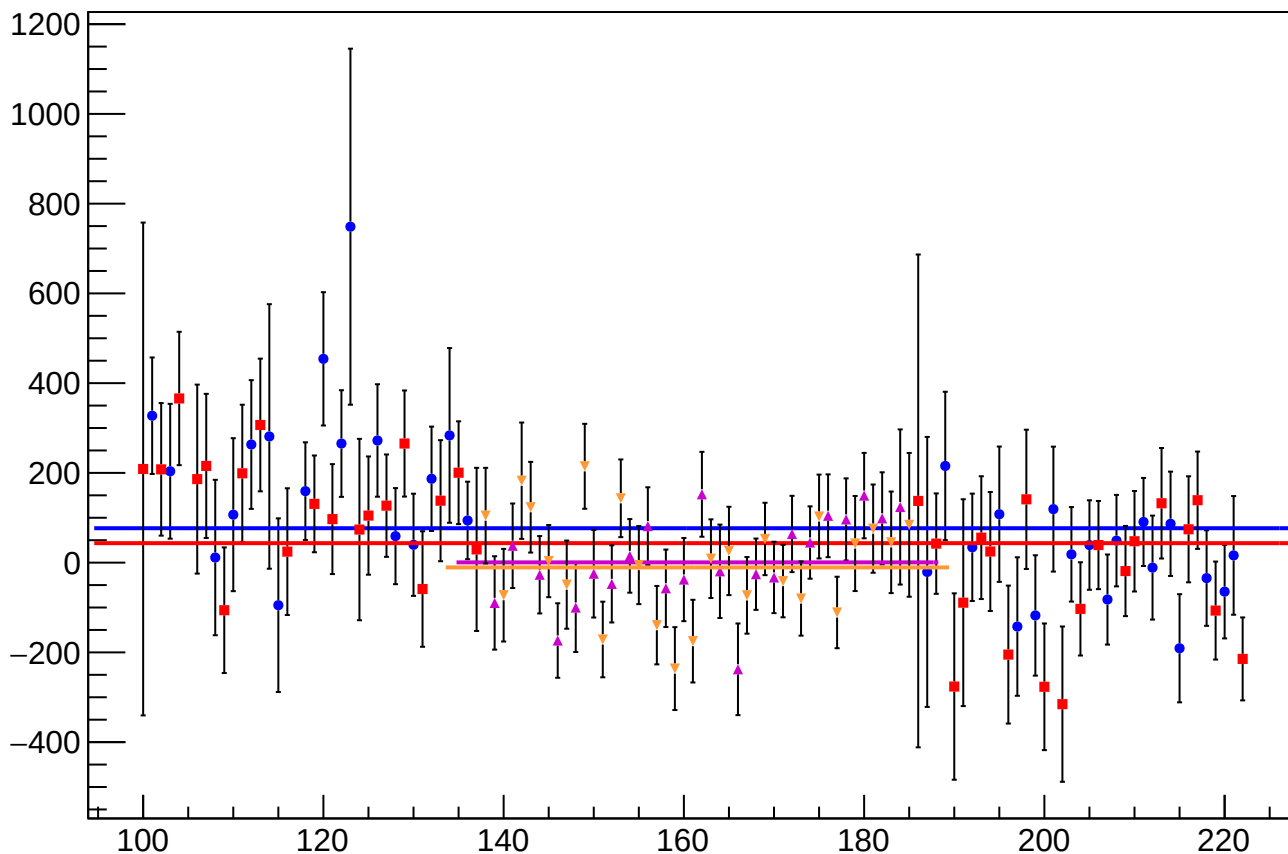
Right: 616.759+/-0.075 χ^2/NDF : 11342708.9/72

In: 358.041+/-0.046 χ^2/NDF : 13749688.4/57

Out: 356.658+/-0.045 χ^2/NDF : 15219526.6/62

All: 357.333+/-0.032 χ^2/NDF : 28969669.5/121

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 76.700 $\pm$ 21.403 χ^2 /NDF: 41.5/34

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 43.411 $\pm$ 21.556 χ^2 /NDF: 49.8/37

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

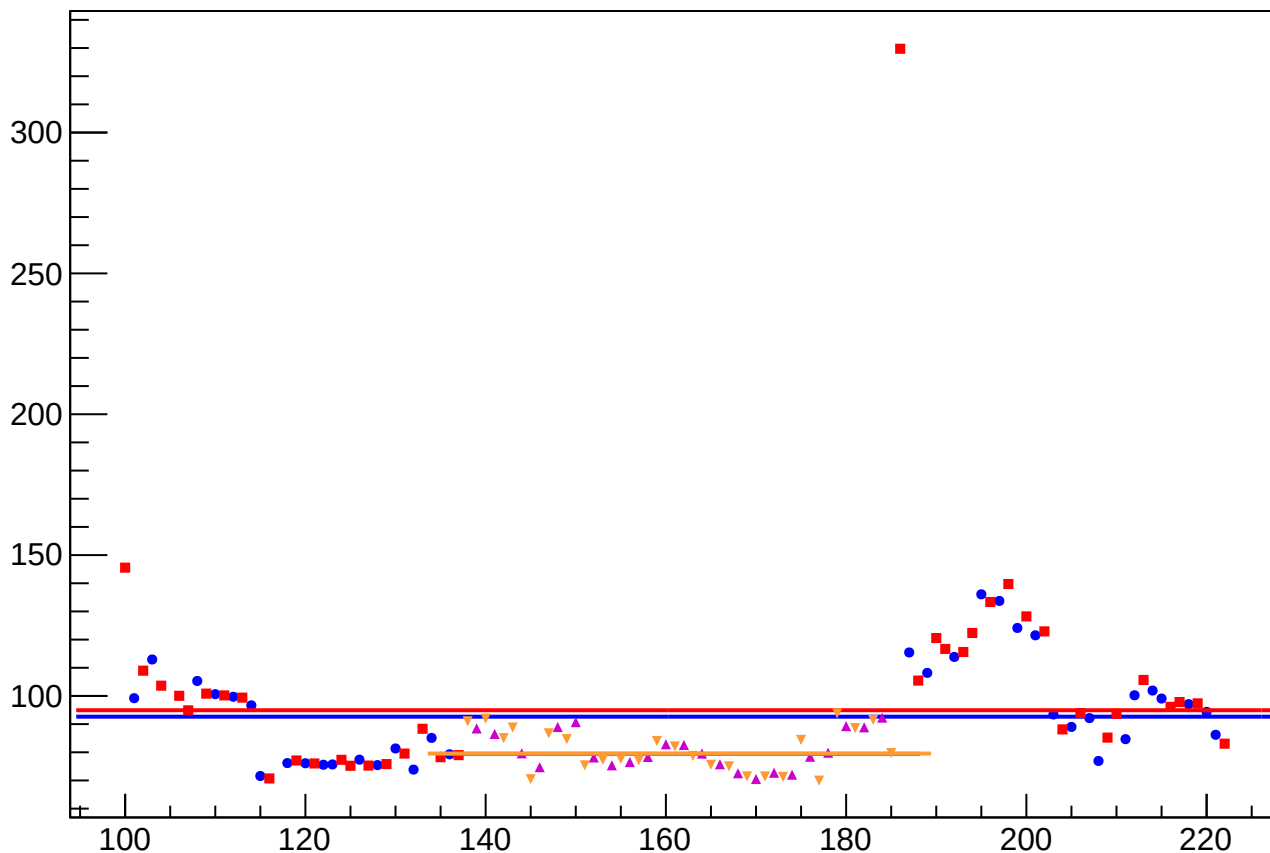
Right: 60.175 $\pm$ 15.188 χ^2 /NDF: 92.5/72

In: 34.307 $\pm$ 14.247 χ^2 /NDF:72.3/57

Out: 12.426 $\pm$ 14.087 χ^2 /NDF:89.8/62

All: 23.242 $\pm$ 10.017 χ^2 /NDF: 163.3/120

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.642 $\pm$ 0.015 χ^2 /NDF: 1100474.2/34

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 94.925 $\pm$ 0.015 χ^2 /NDF: 1571709.0/37

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

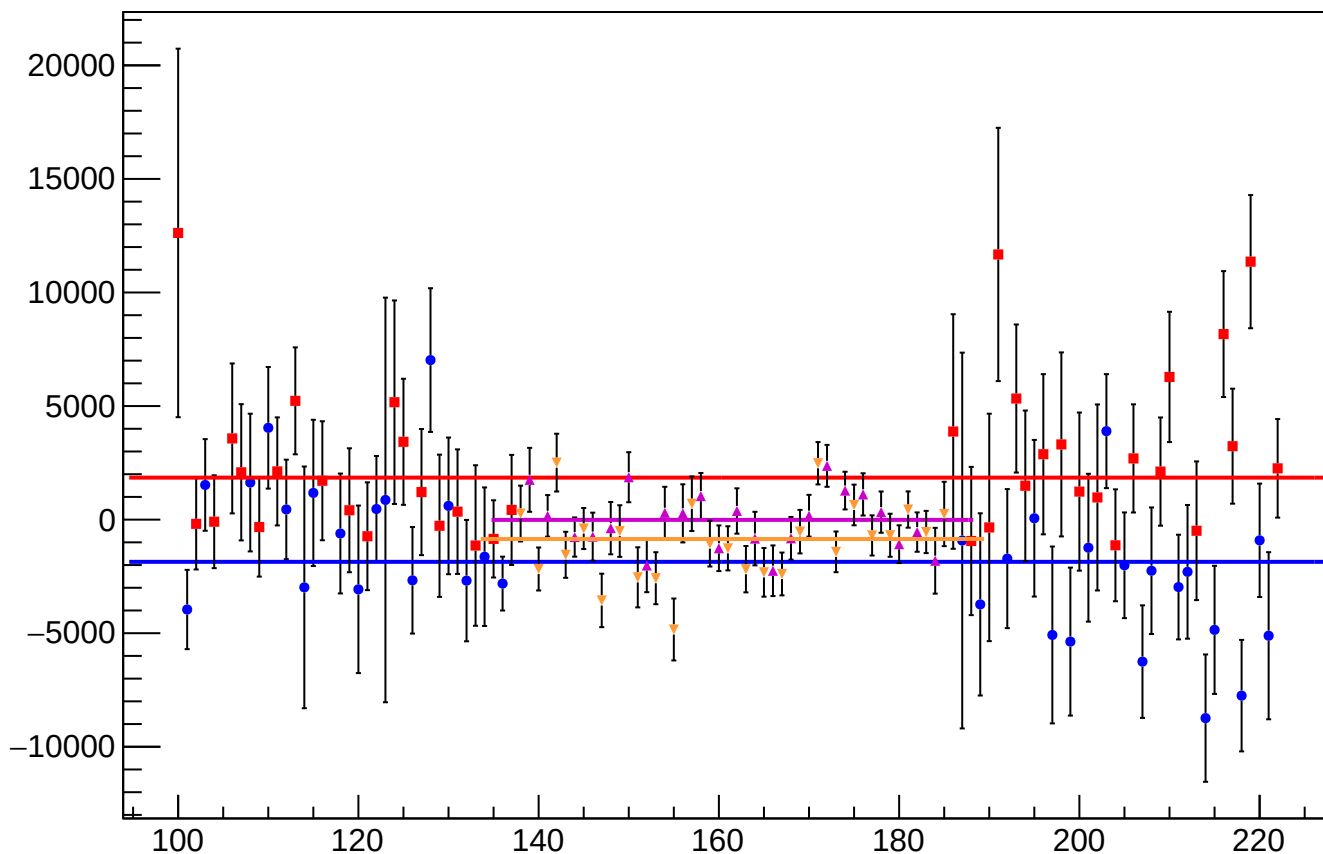
Right: 93.775 $\pm$ 0.011 χ^2 /NDF: 2683478.9/72

In: 85.288 $\pm$ 0.010 χ^2 /NDF: 1736909.1/57

Out: 86.116 $\pm$ 0.010 χ^2 /NDF: 2463641.1/62

All: 85.707 $\pm$ 0.007 χ^2 /NDF: 4203967.8/120

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1858.127 ± 445.365 $\chi^2/\text{NDF}: 48.3/34$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1849.071 ± 451.539 $\chi^2/\text{NDF}: 40.0/37$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

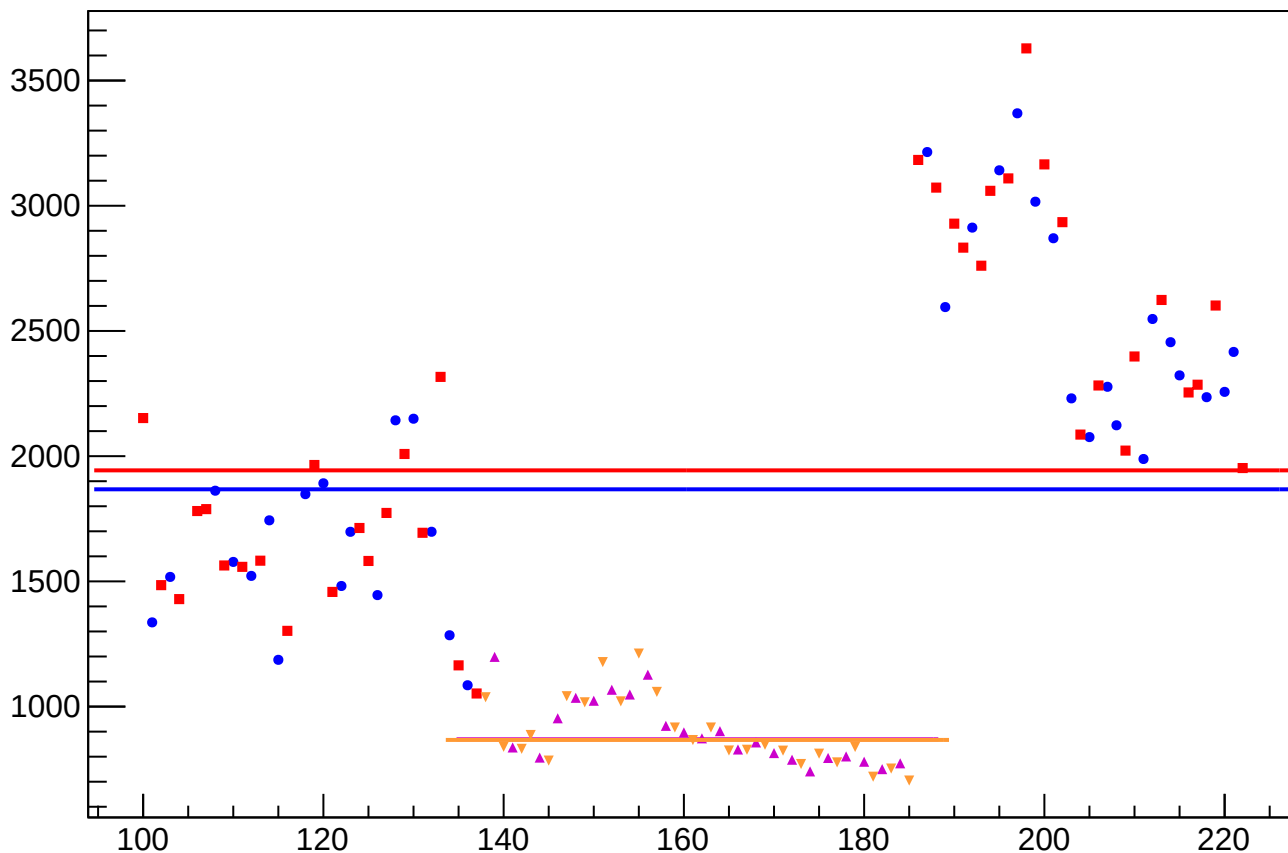
Right: -30.045 ± 317.081 $\chi^2/\text{NDF}: 122.5/72$

In: -347.733 ± 189.997 $\chi^2/\text{NDF}: 93.6/57$

Out: -395.565 ± 185.976 $\chi^2/\text{NDF}: 125.8/62$

All: -372.161 ± 132.904 $\chi^2/\text{NDF}: 219.3/120$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1867.634 $\pm$ 0.315 χ^2 /NDF: 3395328.2/34

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF:661712.5/24

Right Out: 1943.313 $\pm$ 0.319 χ^2 /NDF: 3508190.7/37

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

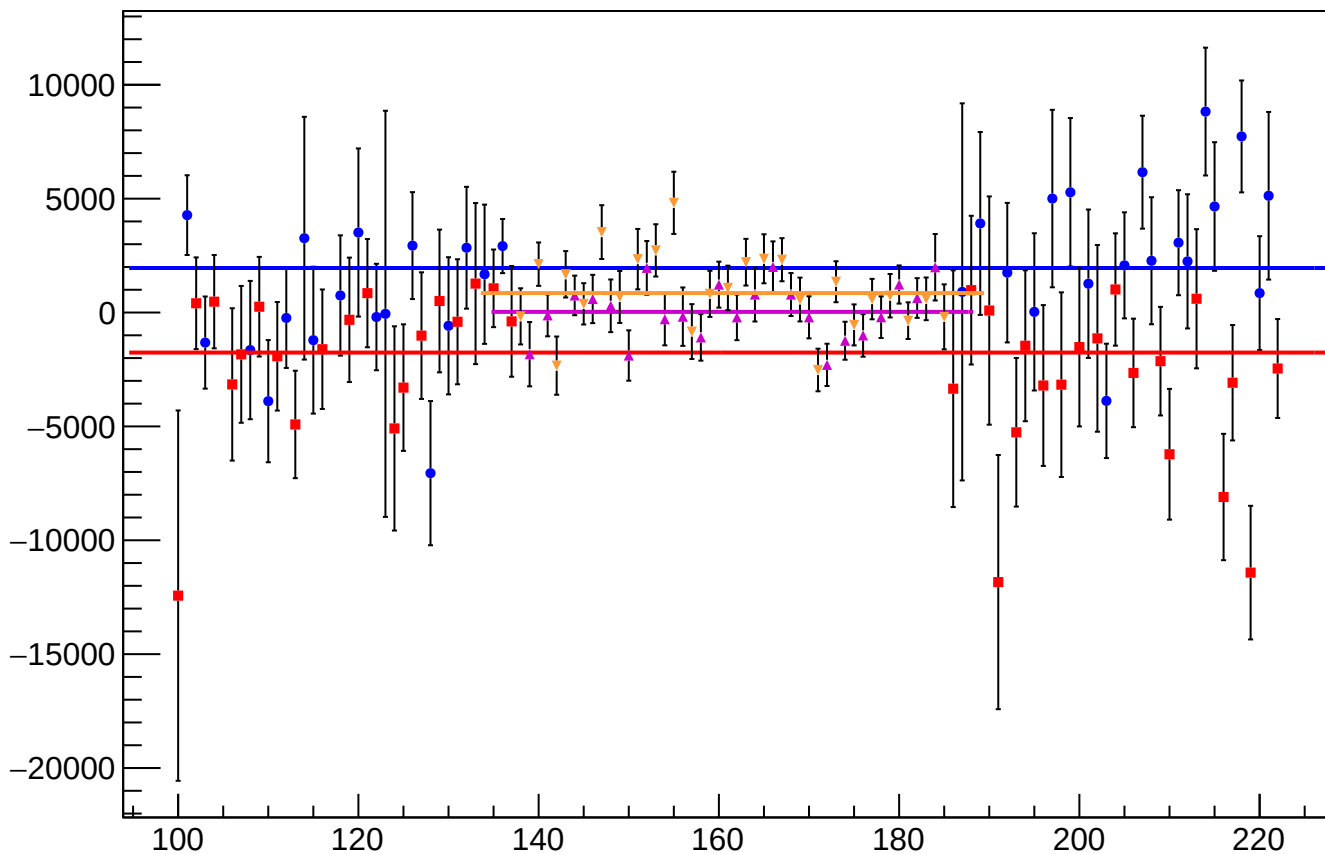
Right: 1904.953 $\pm$ 0.224 χ^2 /NDF: 6931996.1/72

In: 1051.213 $\pm$ 0.134 χ^2 /NDF:12193827.9/57

Out: 1049.494 $\pm$ 0.132 χ^2 /NDF:13607716.5/62

All: 1050.336 $\pm$ 0.094 χ^2 /NDF: 25801628.0/119

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1955.304 $\pm$ 446.066 χ^2 /NDF: 47.8/34

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1757.800 $\pm$ 452.314 χ^2 /NDF: 40.4/37

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF:29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

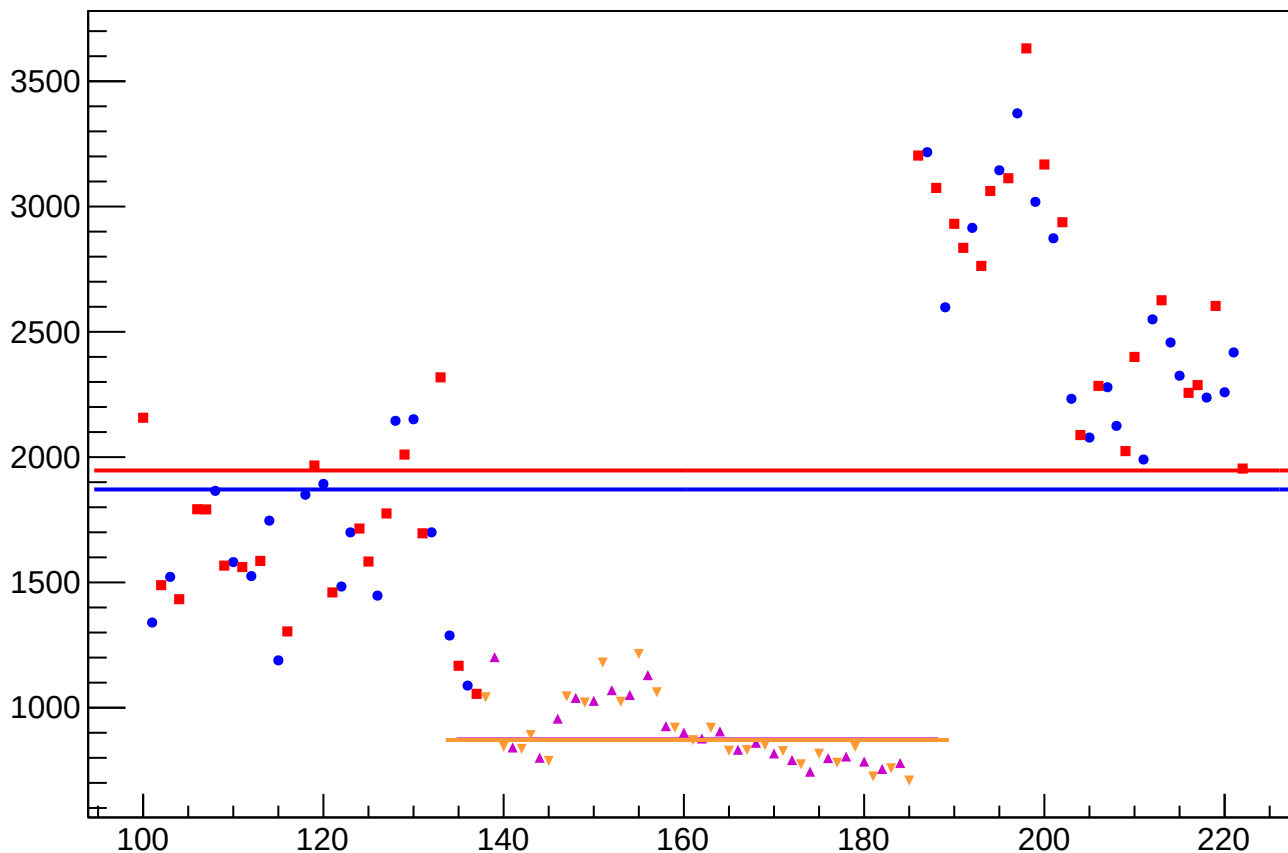
Right: 124.574 $\pm$ 317.602 χ^2 /NDF: 122.4/72

In: 380.934 $\pm$ 190.762 χ^2 /NDF:92.8/57

Out: 410.138 $\pm$ 186.753 χ^2 /NDF:122.2/62

All: 395.846 $\pm$ 133.449 χ^2 /NDF: 215.0/120

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1870.991 $\pm$ 0.315 χ^2/NDF : 3380386.8/34

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1946.735 $\pm$ 0.320 χ^2/NDF : 3497444.6/37

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

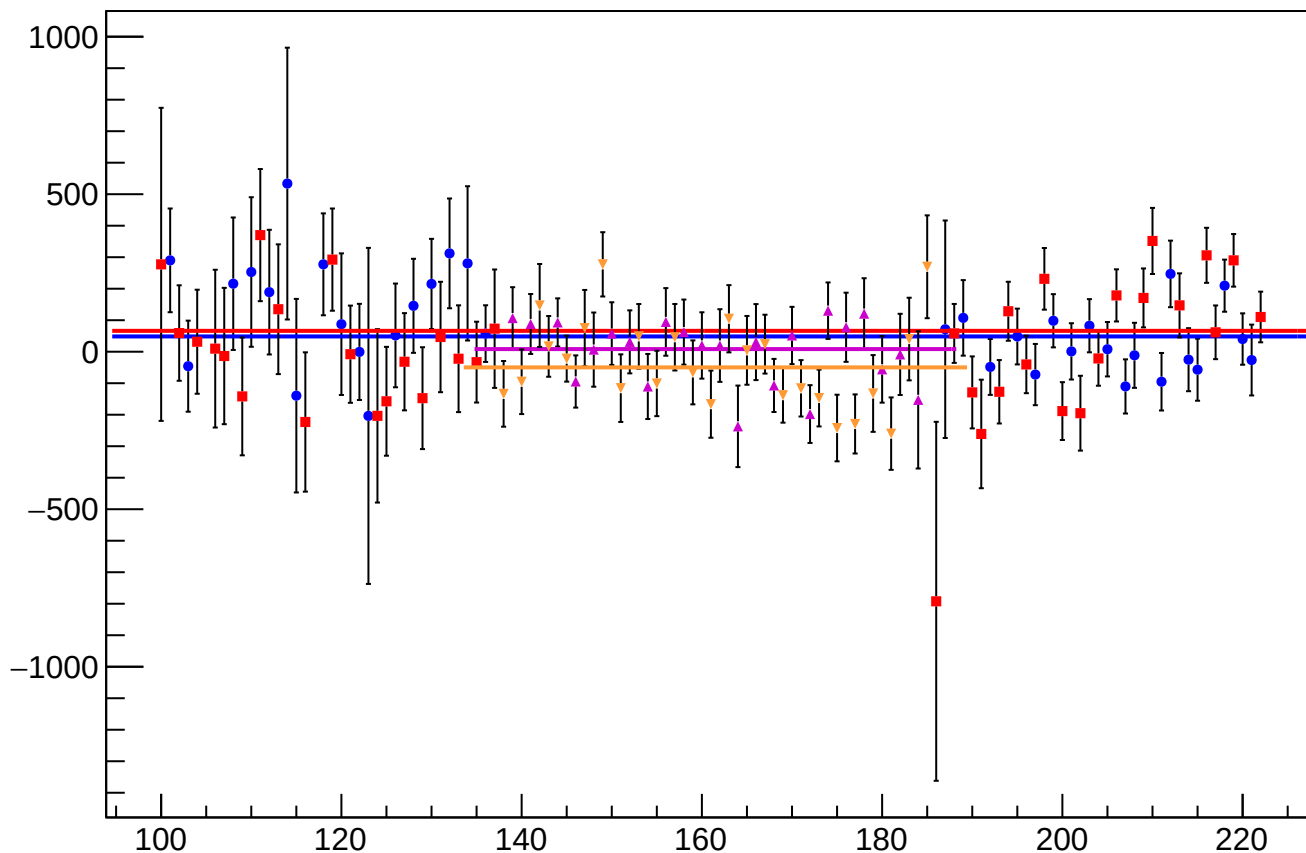
Right: 1908.336 $\pm$ 0.225 χ^2/NDF : 6906264.1/72

In: 1056.073 $\pm$ 0.135 χ^2/NDF : 12123385.6/57

Out: 1054.475 $\pm$ 0.132 χ^2/NDF : 13531356.2/62

All: 1055.257 $\pm$ 0.094 χ^2/NDF : 25654813.6/121

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 48.458+/-19.725 χ^2/NDF : 33.1/34

Left Out: -49.717+/-20.580 χ^2/NDF : 39.4/24

Right Out: 66.273+/-19.675 χ^2/NDF : 70.3/37

Left In: 8.343+/-21.271 χ^2/NDF : 22.0/22

Left: -21.646+/-14.791 χ^2/NDF : 65.3/47

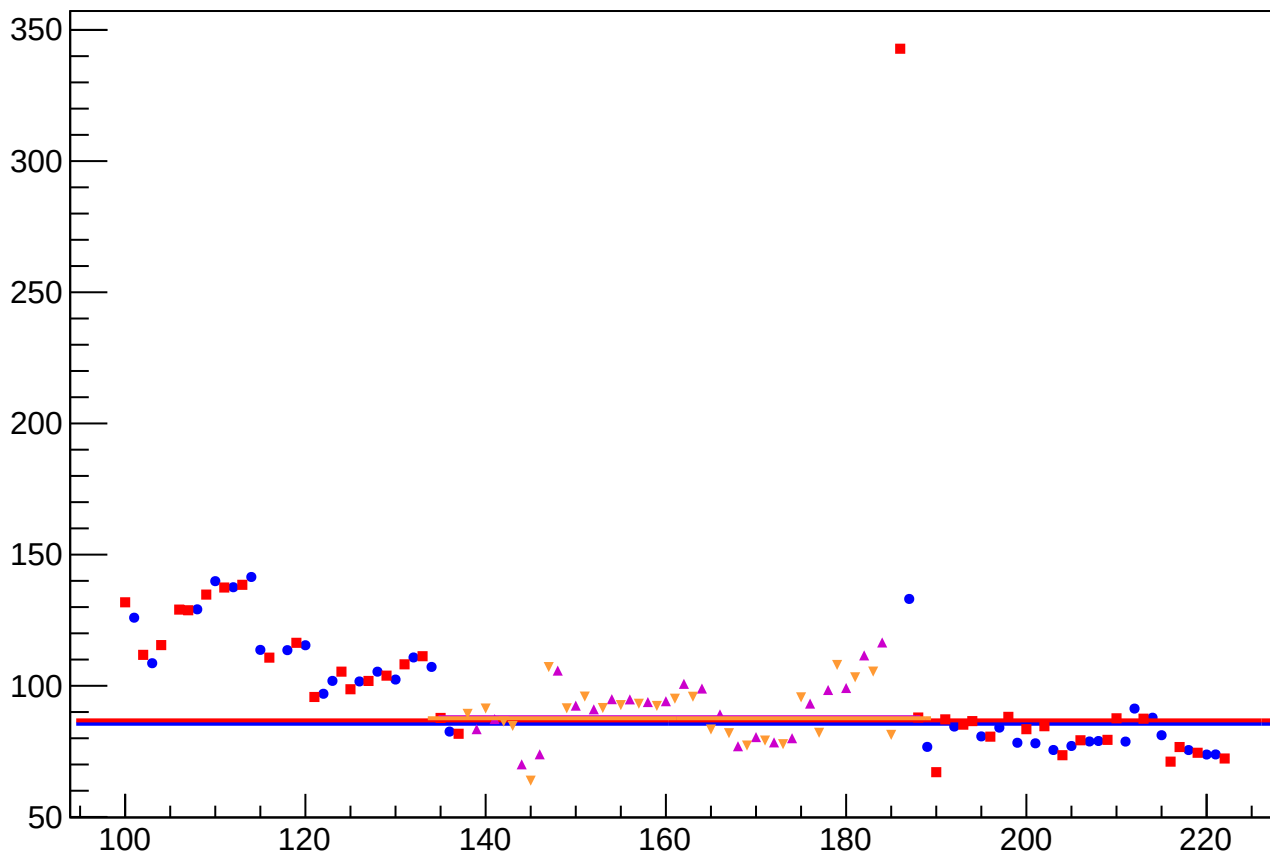
Right: 57.388+/-13.930 χ^2/NDF : 103.8/72

In: 29.911+/-14.463 χ^2/NDF : 57.0/57

Out: 10.884+/-14.222 χ^2/NDF : 126.3/62

All: 20.237+/-10.141 χ^2/NDF : 184.2/120

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 85.537 $\pm$ 0.014 χ^2 /NDF: 1068581.5/34

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 86.816 $\pm$ 0.014 χ^2 /NDF: 1622608.1/37

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

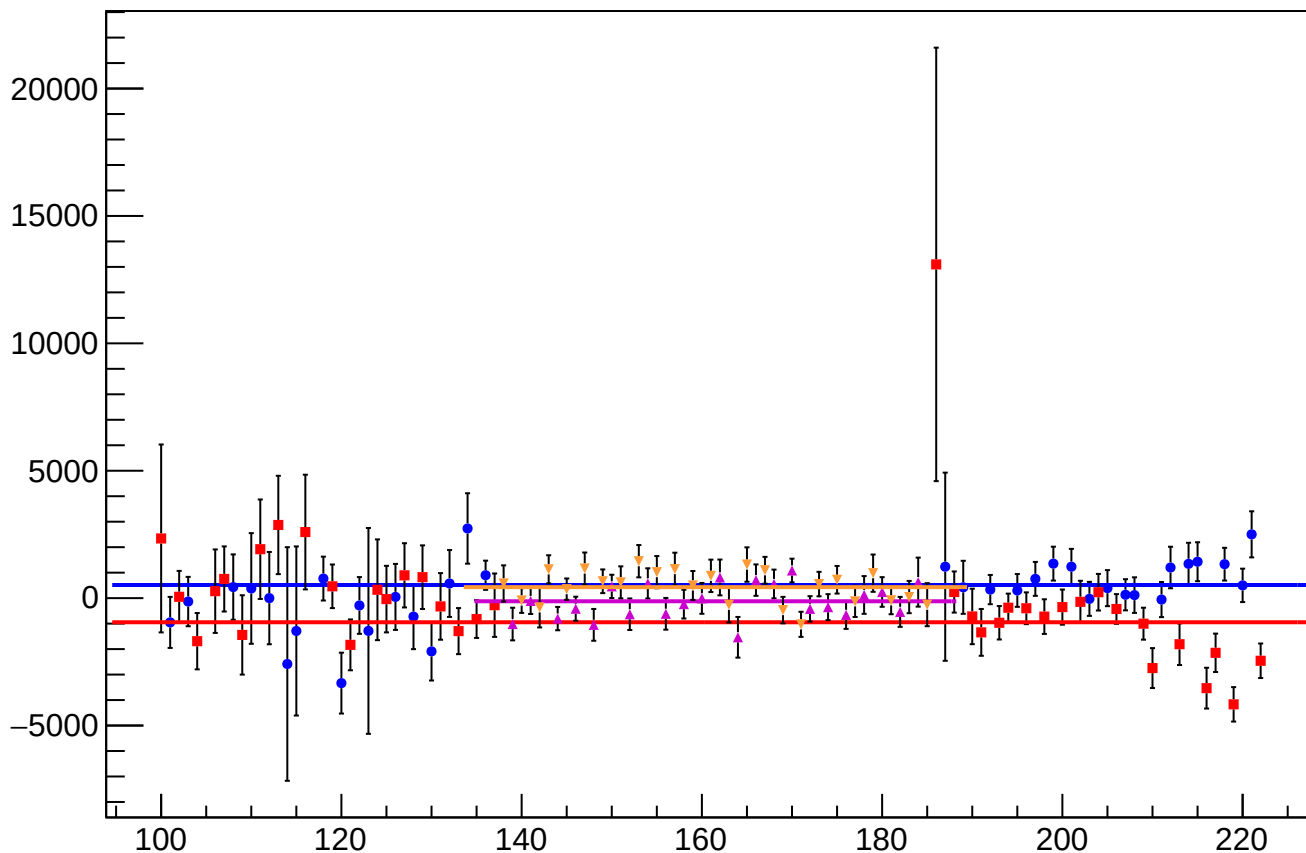
Right: 86.178 $\pm$ 0.010 χ^2 /NDF: 2695406.9/72

In: 86.690 $\pm$ 0.010 χ^2 /NDF: 1607092.5/57

Out: 87.203 $\pm$ 0.010 χ^2 /NDF: 2178915.3/62

All: 86.951 $\pm$ 0.007 χ^2 /NDF: 3787282.8/120

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 515.537 $\pm$ 145.699 χ^2 /NDF: 38.6/34

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -946.642 $\pm$ 143.650 χ^2 /NDF: 81.7/37

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

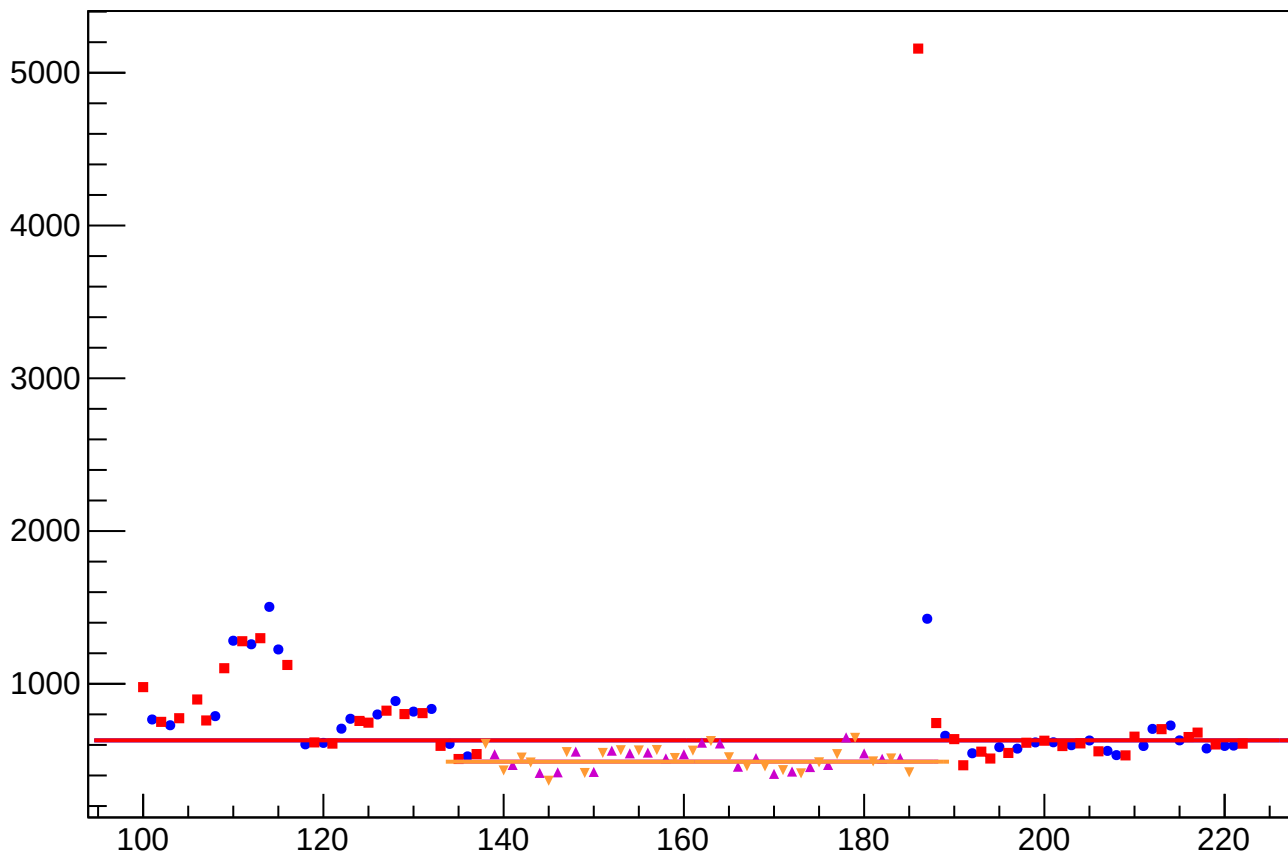
Right: -225.907 $\pm$ 102.293 χ^2 /NDF: 171.4/72

In: 132.112 $\pm$ 92.095 χ^2 /NDF:79.4/57

Out: -110.690 $\pm$ 90.110 χ^2 /NDF:168.0/62

All: 8.065 $\pm$ 64.408 χ^2 /NDF: 251.0/120

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 629.634 $\pm$ 0.103 χ^2 /NDF: 1251020.7/34

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 630.031 $\pm$ 0.102 χ^2 /NDF: 2054362.1/37

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

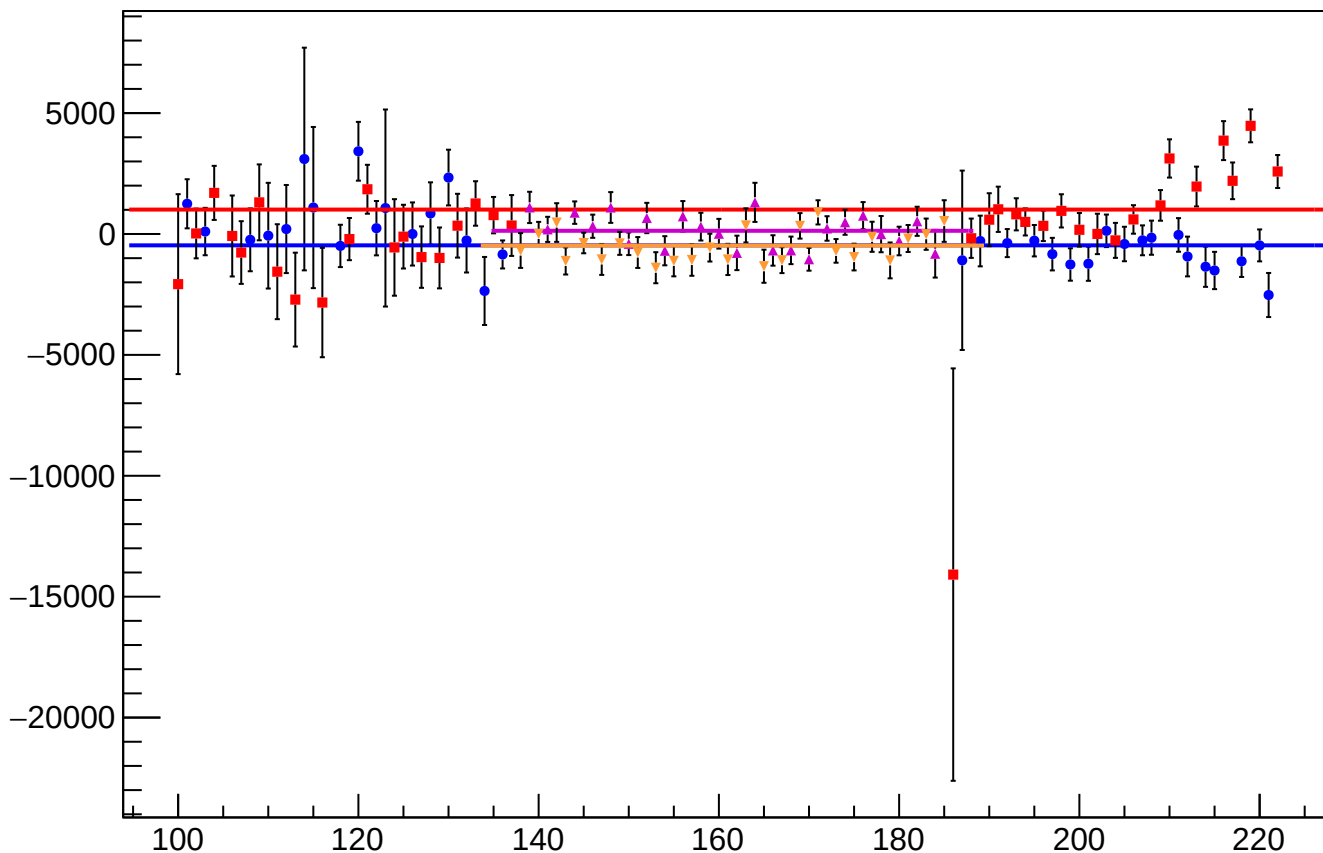
Right: 629.835 $\pm$ 0.072 χ^2 /NDF: 3305390.4/72

In: 546.336 $\pm$ 0.065 χ^2 /NDF: 2928945.8/57

Out: 545.263 $\pm$ 0.064 χ^2 /NDF: 3952918.2/62

All: 545.787 $\pm$ 0.046 χ^2 /NDF: 6882002.7/120

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -469.658 ± 147.172 χ^2/NDF : 38.2/34

Left Out: -478.197 ± 117.659 χ^2/NDF : 27.8/24

Right Out: 1009.586 ± 145.192 χ^2/NDF : 90.9/37

Left In: 132.543 ± 120.866 χ^2/NDF : 29.5/22

Left: -181.037 ± 84.308 χ^2/NDF : 70.5/47

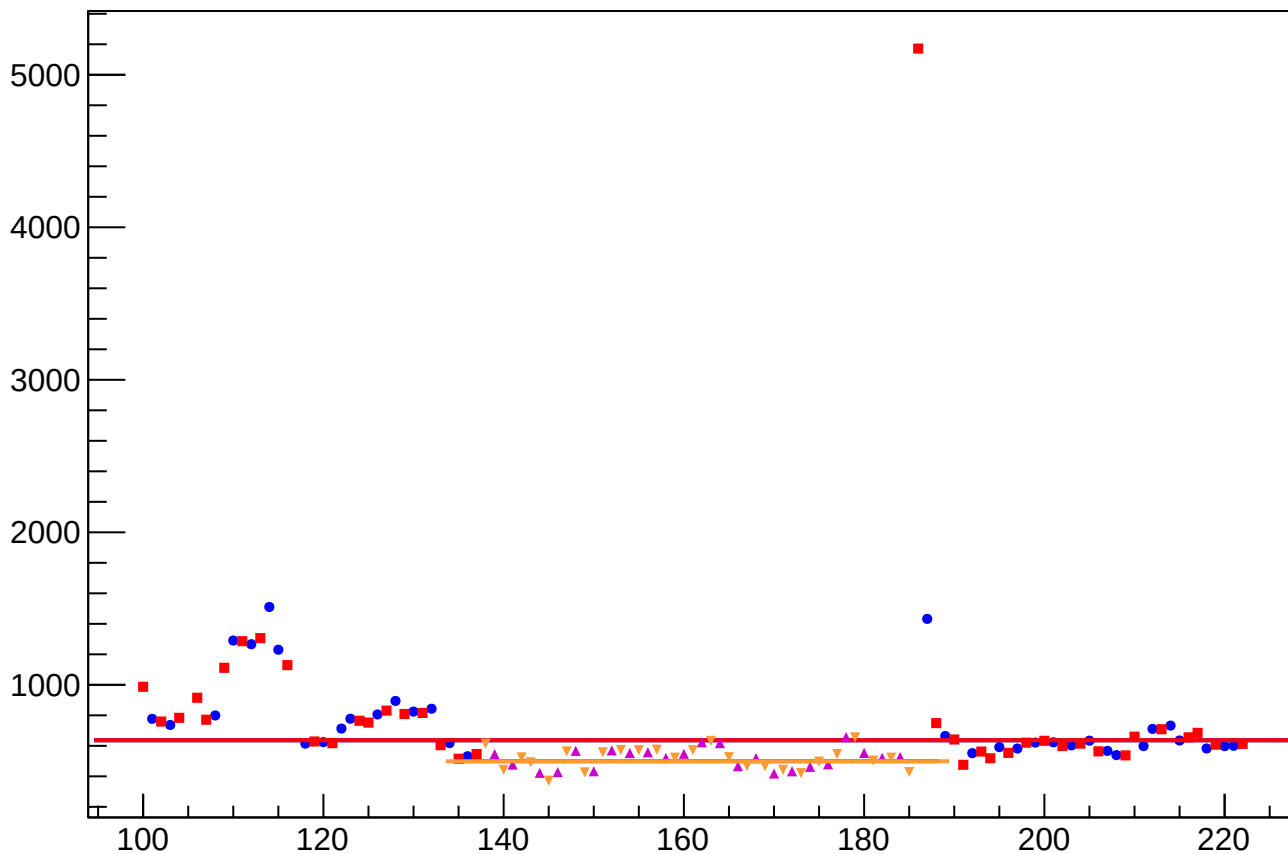
Right: 279.978 ± 103.359 χ^2/NDF : 180.3/72

In: -110.020 ± 93.404 χ^2/NDF : 77.8/57

Out: 111.543 ± 91.412 χ^2/NDF : 182.1/62

All: 3.149 ± 65.331 χ^2/NDF : 262.7/120

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 636.153+/-0.104 χ^2/NDF : 1239944.3/34

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 637.005+/-0.103 χ^2/NDF : 2032806.3/37

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

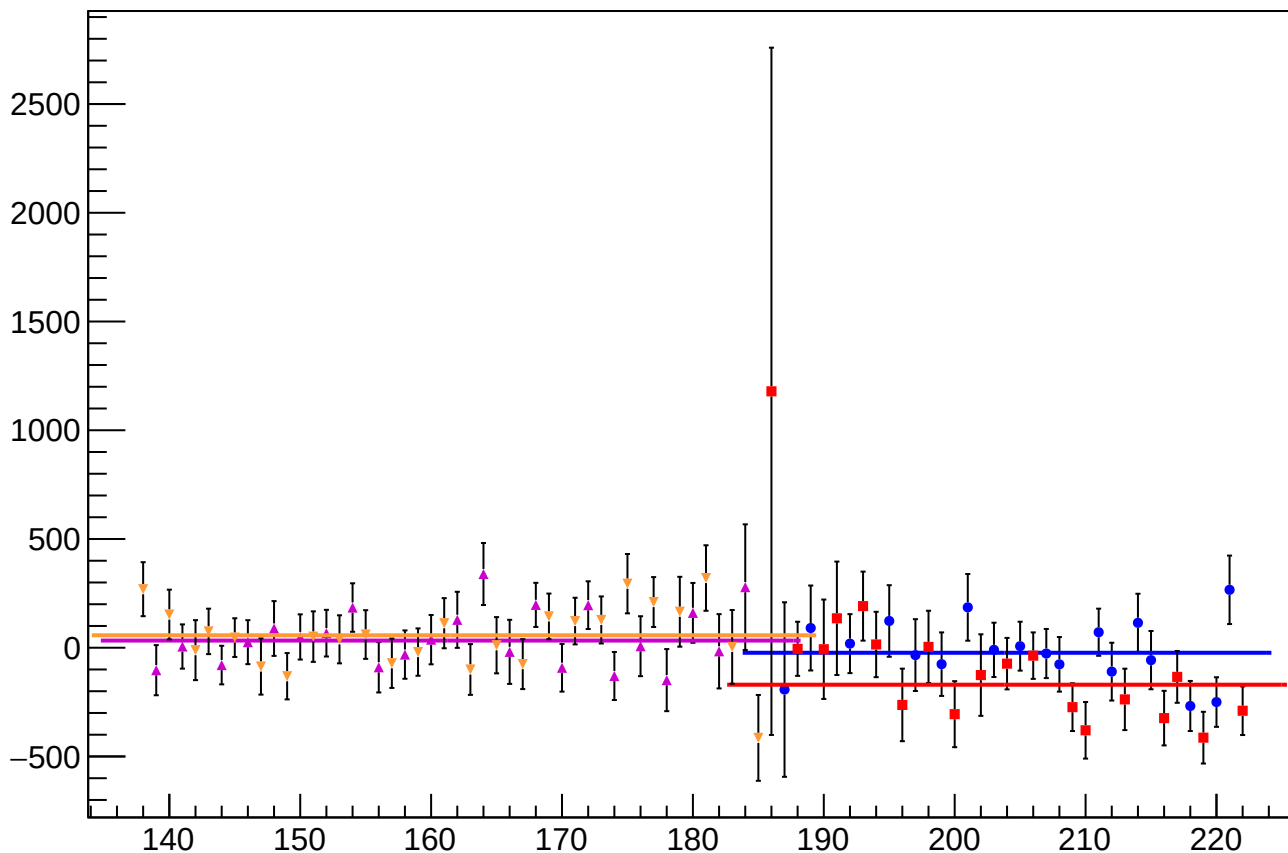
Right: 636.585+/-0.073 χ^2/NDF : 3272784.6/72

In: 554.479+/-0.066 χ^2/NDF : 2847881.3/57

Out: 553.555+/-0.065 χ^2/NDF : 3861663.5/62

All: 554.007+/-0.046 χ^2/NDF : 6709644.8/120

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -23.187 ± 31.927 $\chi^2/\text{NDF}: 17.8/17$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -170.064 ± 32.232 $\chi^2/\text{NDF}: 26.2/18$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

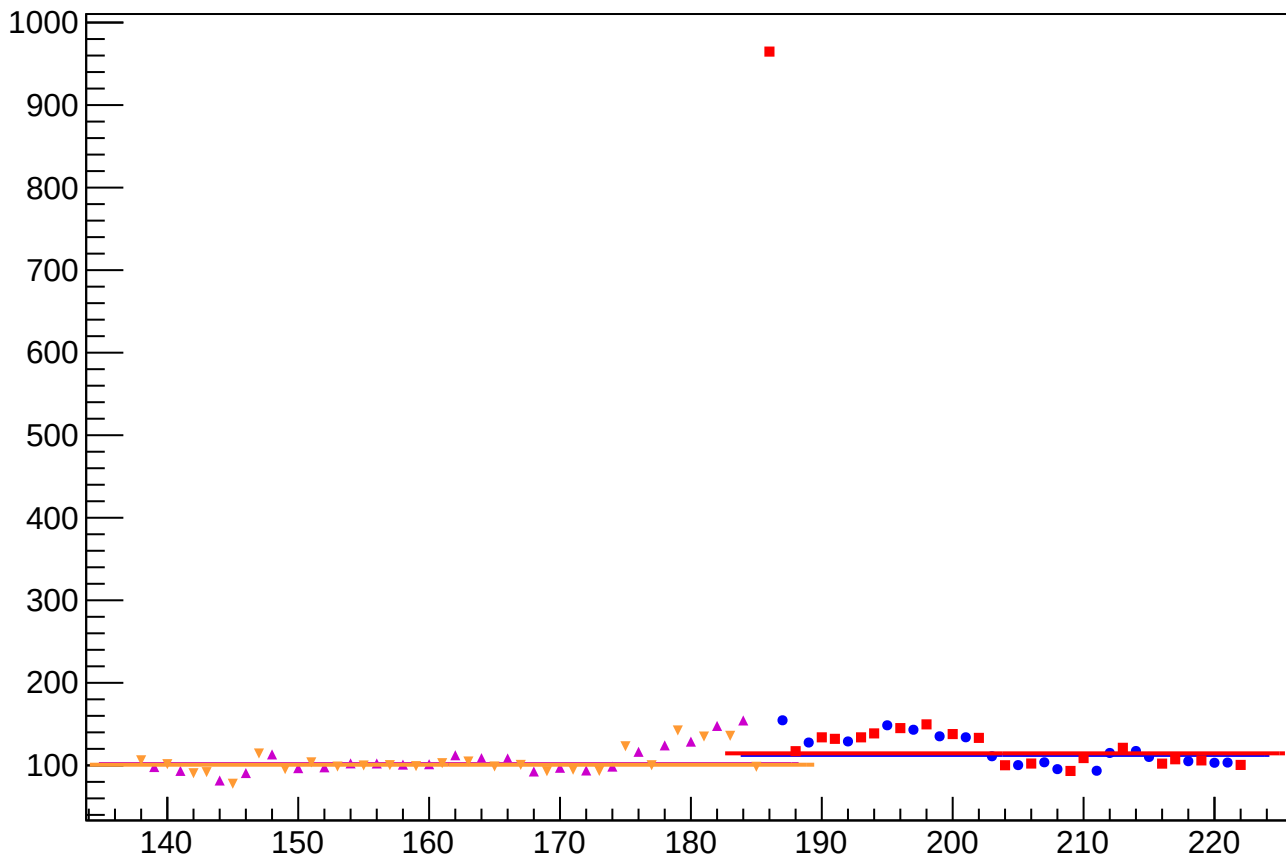
Right: -95.928 ± 22.683 $\chi^2/\text{NDF}: 54.5/36$

In: 12.050 ± 19.480 $\chi^2/\text{NDF}: 43.4/40$

Out: -22.606 ± 19.101 $\chi^2/\text{NDF}: 87.6/43$

All: -5.618 ± 13.639 $\chi^2/\text{NDF}: 132.6/84$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 112.689 $\pm$ 0.023 χ^2 /NDF: 483412.5/17

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF:600502.4/24

Right Out: 114.564 $\pm$ 0.023 χ^2 /NDF: 1117849.8/18

Left In: 101.622 $\pm$ 0.017 χ^2 /NDF:582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2 /NDF: 1183987.6/47

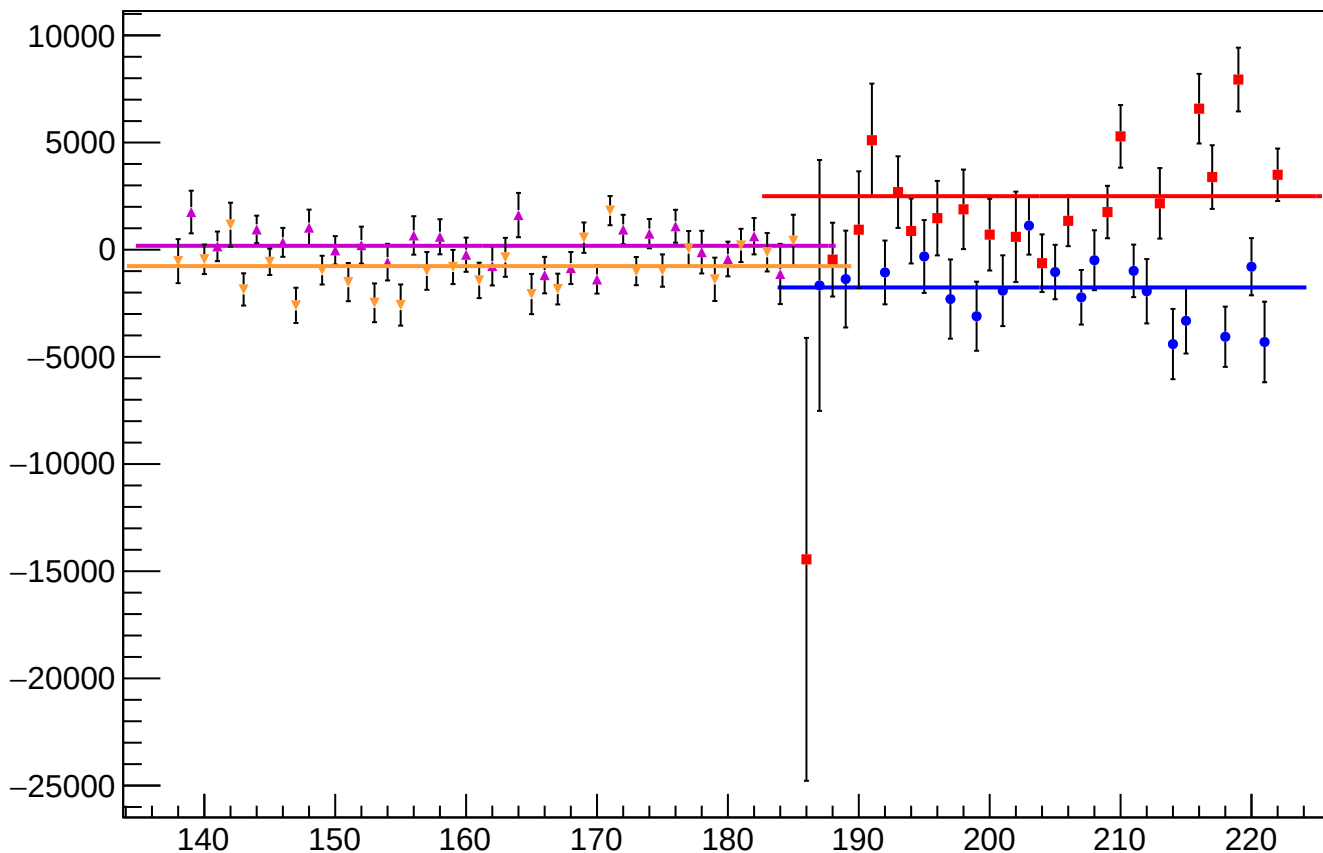
Right: 113.618 $\pm$ 0.016 χ^2 /NDF: 1604679.5/36

In: 105.742 $\pm$ 0.014 χ^2 /NDF:1216595.0/40

Out: 105.634 $\pm$ 0.014 χ^2 /NDF:1954969.2/43

All: 105.687 $\pm$ 0.010 χ^2 /NDF: 3171595.3/84

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1760.990 ± 362.154 χ^2/NDF : 16.7/17

Left Out: -766.358 ± 161.066 χ^2/NDF : 46.5/24

Right Out: 2496.435 ± 368.863 χ^2/NDF : 41.7/18

Left In: 181.584 ± 165.671 χ^2/NDF : 25.0/22

Left: -305.743 ± 115.485 χ^2/NDF : 88.4/47

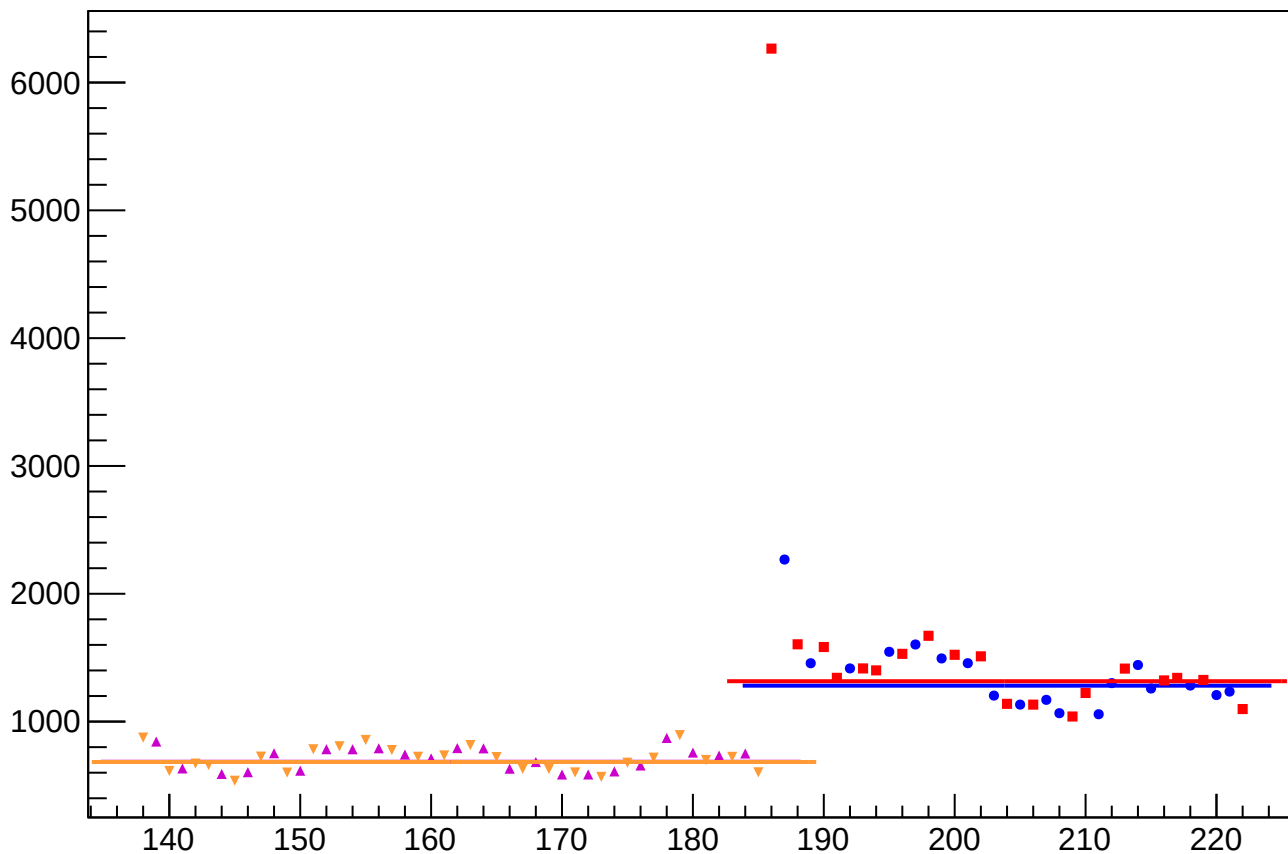
Right: 328.648 ± 258.421 χ^2/NDF : 126.2/36

In: -154.588 ± 150.655 χ^2/NDF : 65.5/40

Out: -243.869 ± 147.608 χ^2/NDF : 153.9/43

All: -200.141 ± 105.435 χ^2/NDF : 219.6/84

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1281.059+/-0.256 χ^2/NDF : 442954.3/17

Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24

Right Out: 1315.920+/-0.261 χ^2/NDF : 963364.1/18

Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47

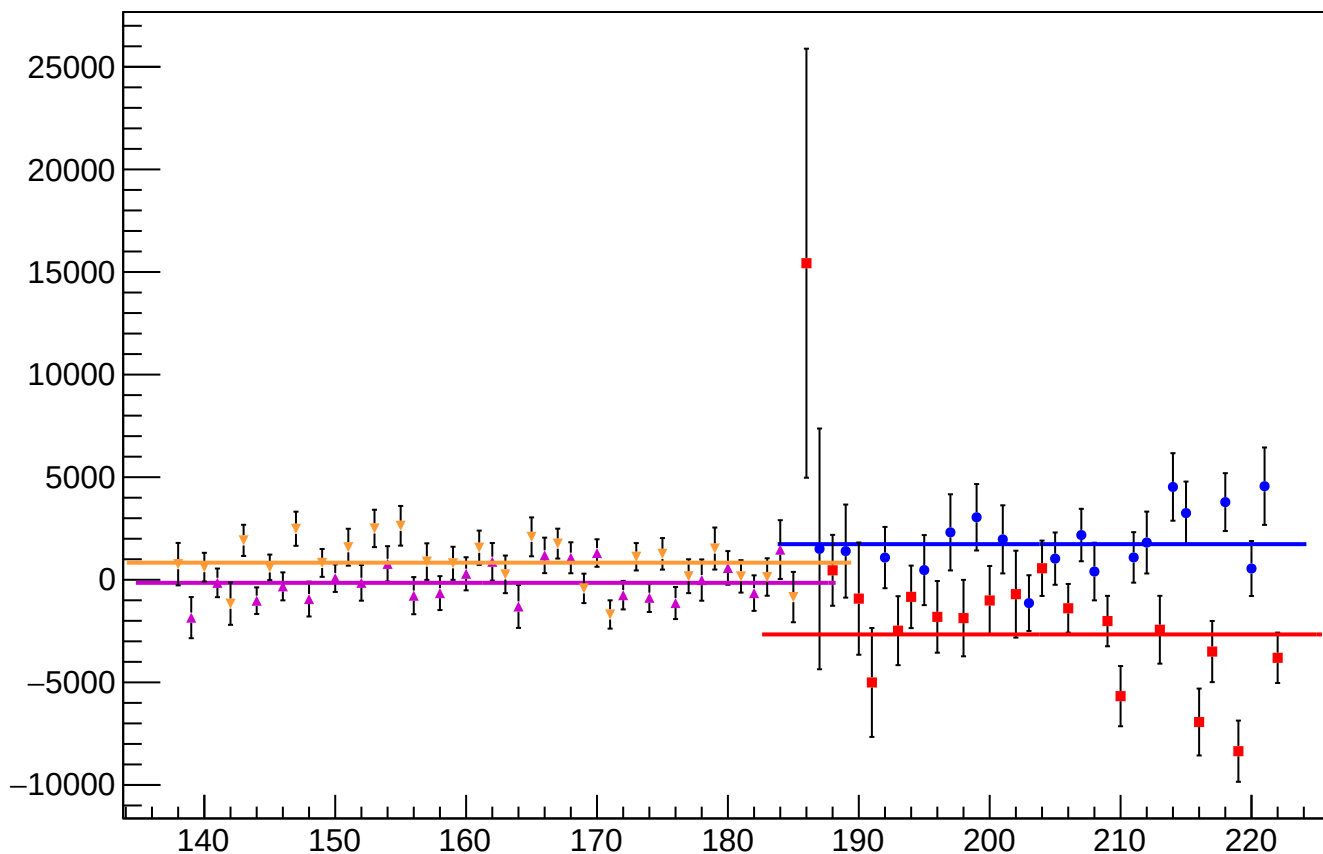
Right: 1298.169+/-0.183 χ^2/NDF : 1415414.3/36

In: 788.641+/-0.107 χ^2/NDF : 5443620.7/40

Out: 785.096+/-0.104 χ^2/NDF : 6562156.1/43

All: 786.832+/-0.075 χ^2/NDF : 12006341.9/84

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1736.301 $\pm$ 363.608 χ^2 /NDF: 16.6/17

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF: 43.2/24

Right Out: -2663.483 $\pm$ 370.354 χ^2 /NDF: 45.1/18

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

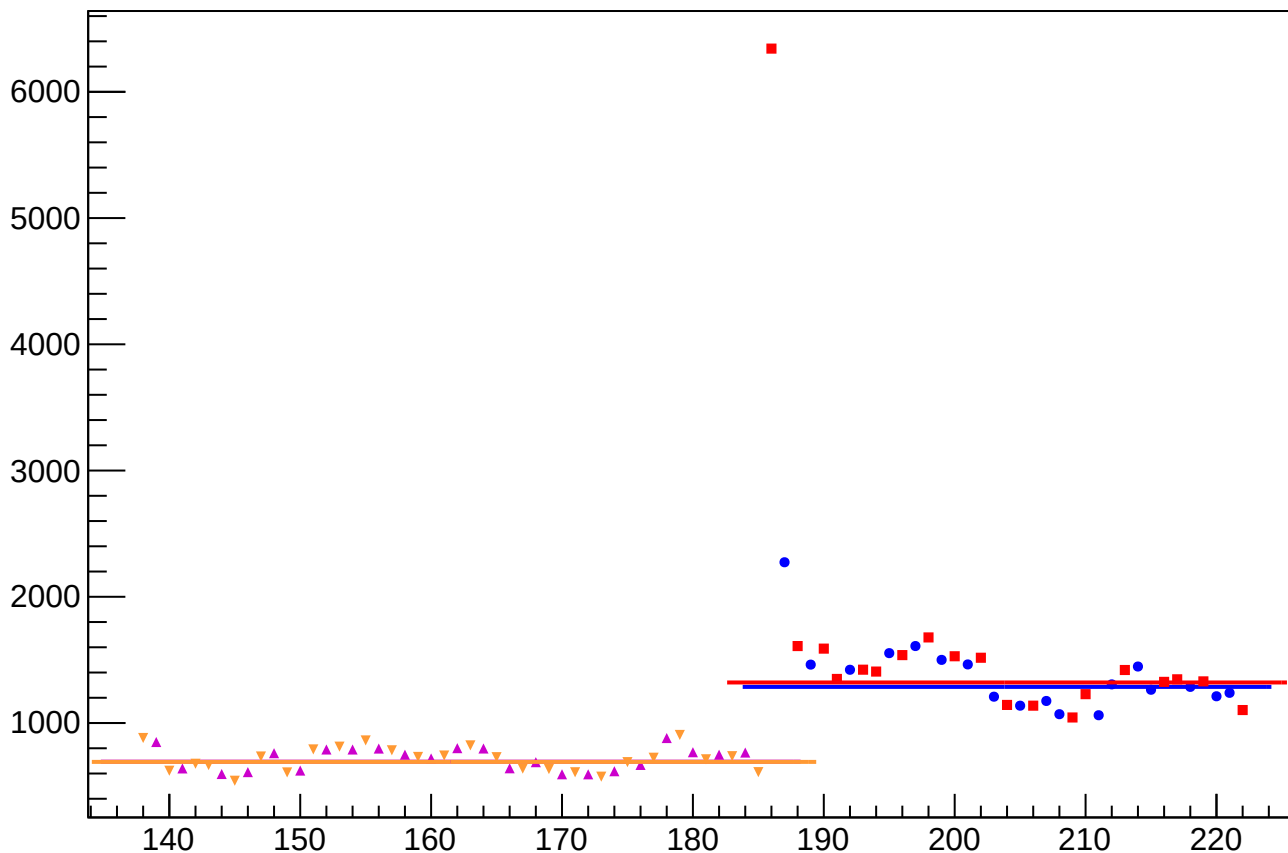
Right: -423.158 $\pm$ 259.462 χ^2 /NDF: 133.6/36

In: 181.661 $\pm$ 152.242 χ^2 /NDF: 64.8/40

Out: 266.152 $\pm$ 149.163 χ^2 /NDF: 163.0/43

All: 224.770 $\pm$ 106.546 χ^2 /NDF: 228.0/84

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1286.201 $\pm$ 0.257 χ^2 /NDF: 443550.5/17

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1321.213 $\pm$ 0.262 χ^2 /NDF: 965615.7/18

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

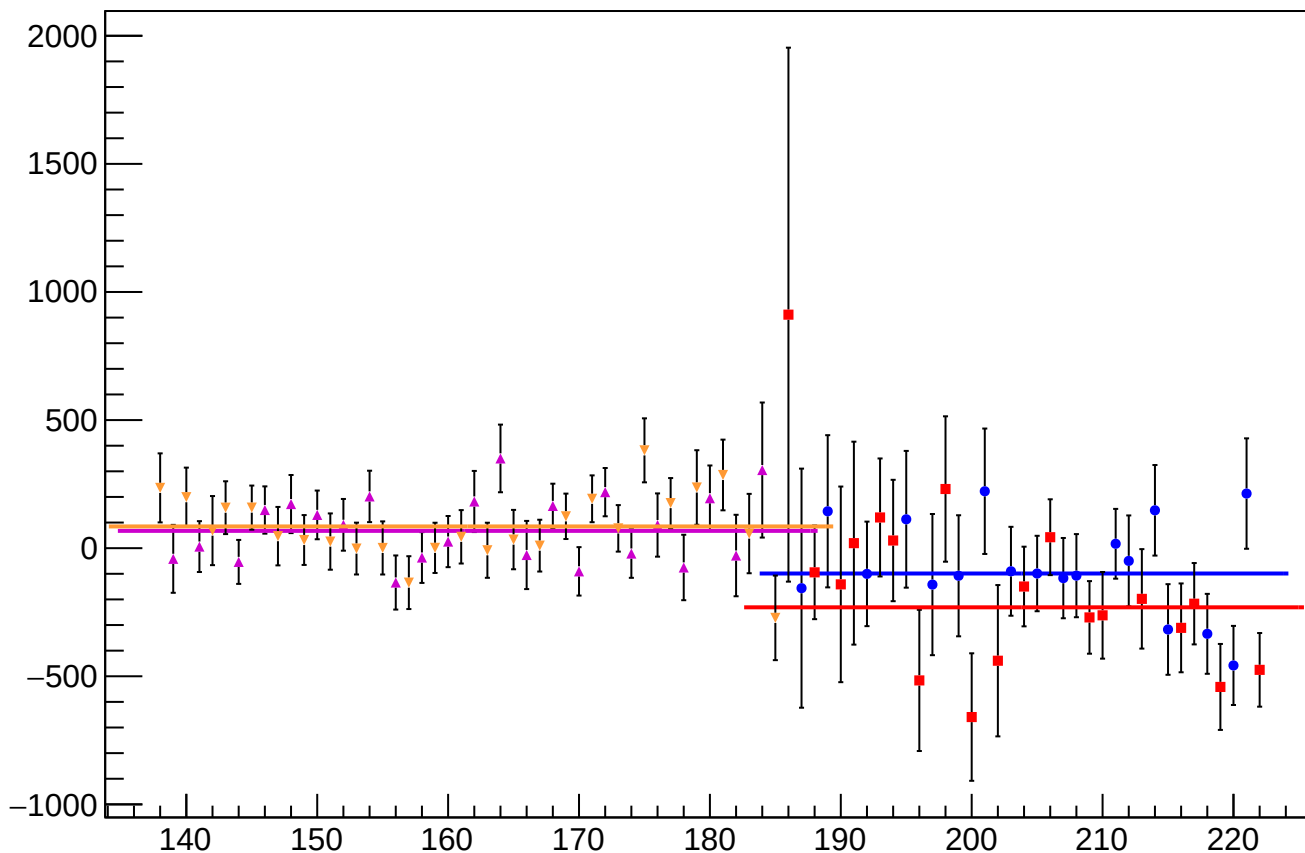
Right: 1303.386 $\pm$ 0.183 χ^2 /NDF: 1418267.6/36

In: 797.708 $\pm$ 0.108 χ^2 /NDF: 5342720.3/40

Out: 794.148 $\pm$ 0.105 χ^2 /NDF: 6457822.2/43

All: 795.892 $\pm$ 0.075 χ^2 /NDF: 11801100.4/84

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -98.860 ± 44.106 χ^2/NDF : 17.1/17

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -230.865 ± 45.214 χ^2/NDF : 23.3/18

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

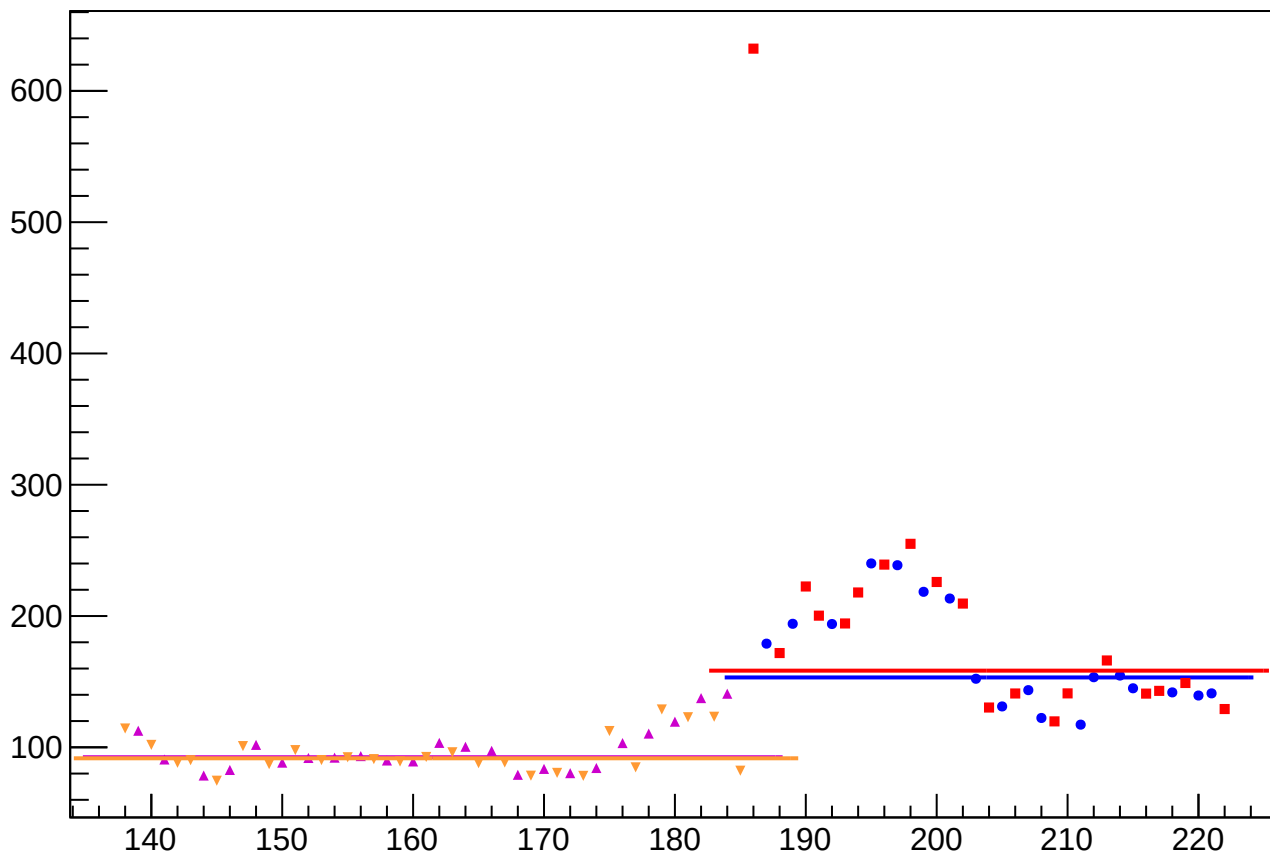
Right: -163.225 ± 31.572 χ^2/NDF : 44.8/36

In: 33.311 ± 20.007 χ^2/NDF : 57.3/40

Out: 26.003 ± 19.522 χ^2/NDF : 91.5/43

All: 29.567 ± 13.972 χ^2/NDF : 148.8/84

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 153.221 $\pm$ 0.031 χ^2 /NDF: 1102747.3/17

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 158.396 $\pm$ 0.032 χ^2 /NDF: 1683079.7/18

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

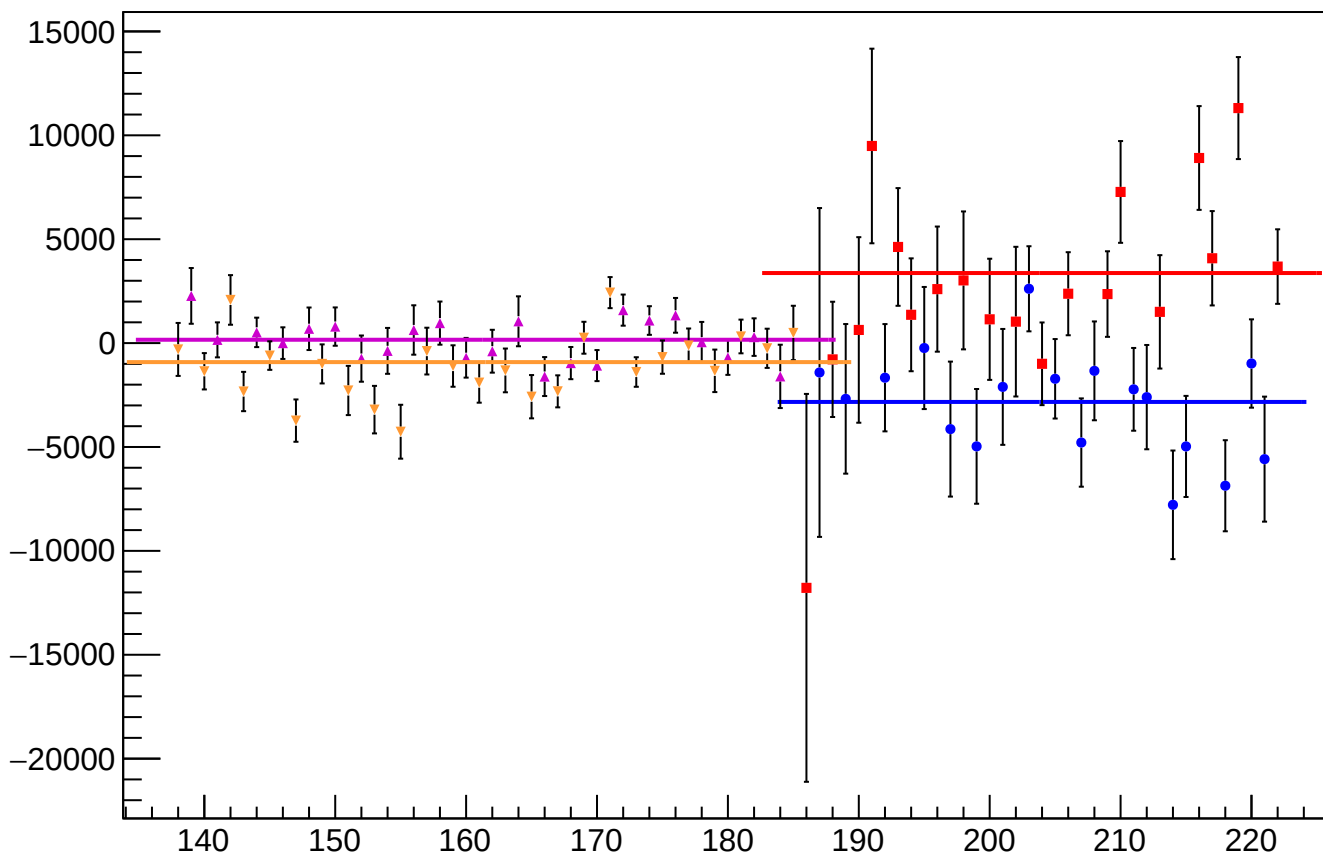
Right: 155.744 $\pm$ 0.022 χ^2 /NDF: 2799250.7/36

In: 104.967 $\pm$ 0.014 χ^2 /NDF: 4772550.6/40

Out: 104.079 $\pm$ 0.014 χ^2 /NDF: 5924028.1/43

All: 104.512 $\pm$ 0.010 χ^2 /NDF: 10698599.0/84

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2831.819 ± 588.270 $\chi^2/\text{NDF}: 19.9/17$

Left Out: -914.719 ± 185.341 $\chi^2/\text{NDF}: 64.2/24$

Right Out: 3371.929 ± 601.504 $\chi^2/\text{NDF}: 32.6/18$

Left In: 161.076 ± 189.491 $\chi^2/\text{NDF}: 25.1/22$

Left: -388.730 ± 132.499 $\chi^2/\text{NDF}: 105.7/47$

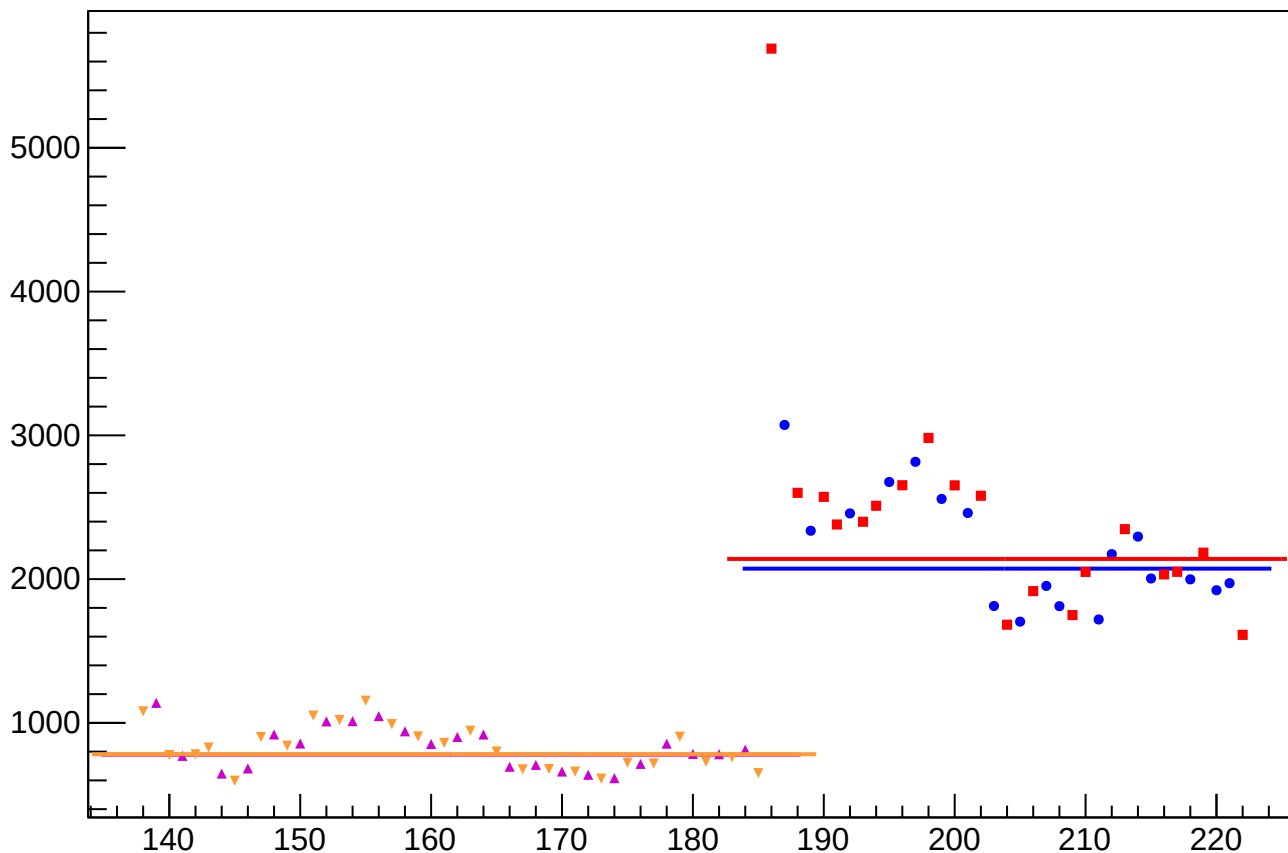
Right: 201.062 ± 420.571 $\chi^2/\text{NDF}: 106.9/36$

In: -120.269 ± 180.364 $\chi^2/\text{NDF}: 68.5/40$

Out: -543.020 ± 177.123 $\chi^2/\text{NDF}: 143.2/43$

All: -335.477 ± 126.375 $\chi^2/\text{NDF}: 214.4/84$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2072.956 $\pm$ 0.416 χ^2 /NDF: 609946.5/17

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2140.423 $\pm$ 0.425 χ^2 /NDF: 1097515.4/18

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

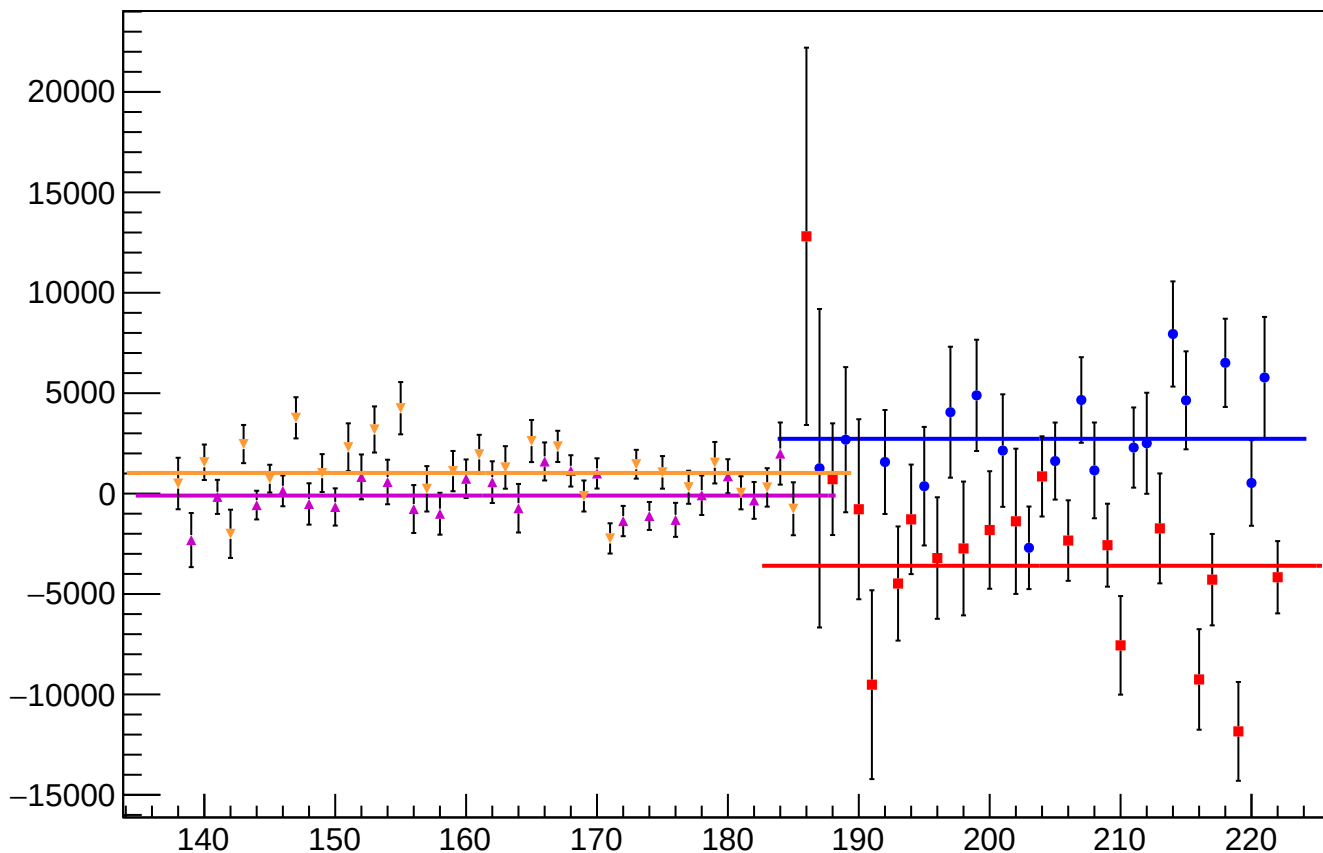
Right: 2105.939 $\pm$ 0.297 χ^2 /NDF: 1720322.8/36

In: 900.633 $\pm$ 0.128 χ^2 /NDF: 10357059.6/40

Out: 899.828 $\pm$ 0.125 χ^2 /NDF: 11543983.8/43

All: 900.223 $\pm$ 0.089 χ^2 /NDF: 21901063.6/84

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2727.681 $\pm$ 590.058 χ^2 /NDF: 19.9/17

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF: 60.2/24

Right Out: -3593.931 $\pm$ 603.357 χ^2 /NDF: 34.3/18

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

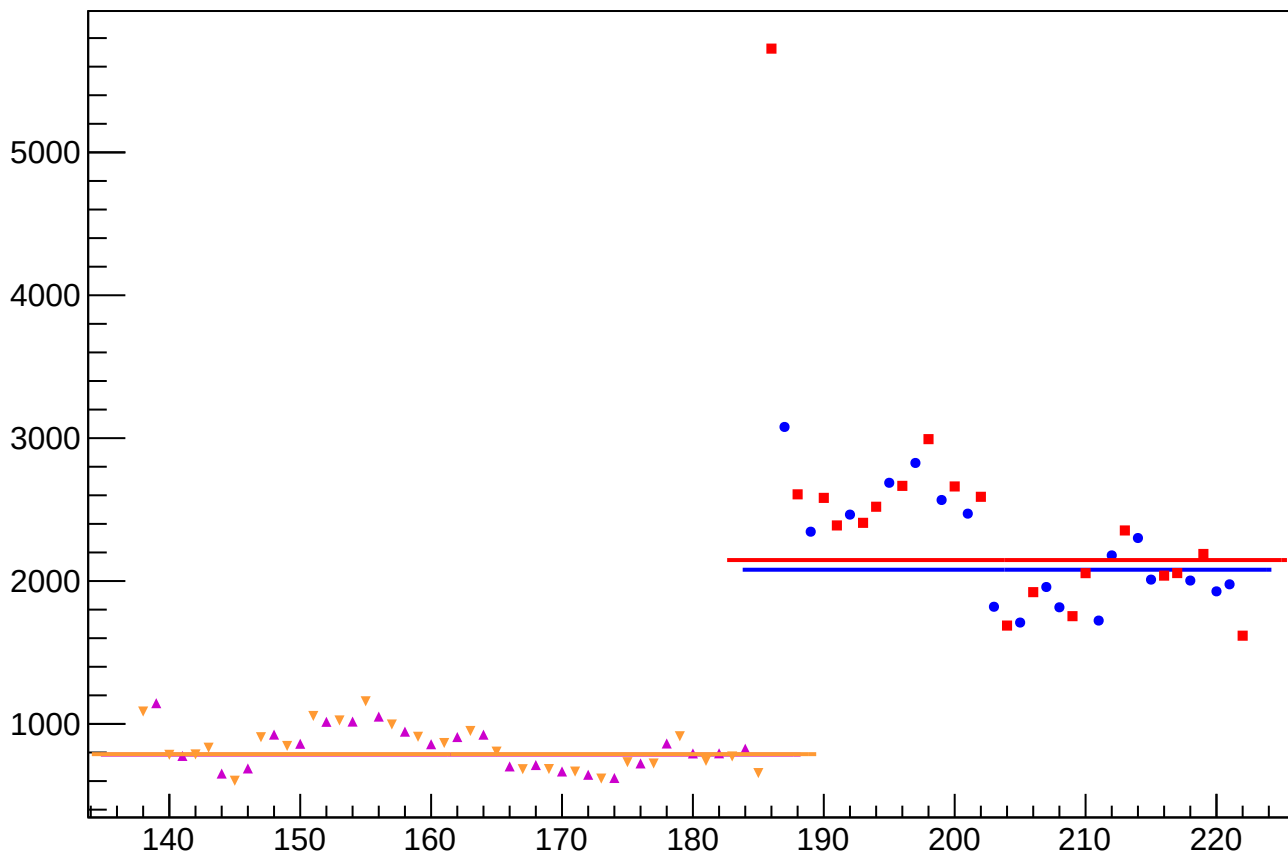
Right: -362.688 $\pm$ 421.858 χ^2 /NDF: 110.4/36

In: 169.436 $\pm$ 181.740 χ^2 /NDF: 66.1/40

Out: 624.474 $\pm$ 178.452 χ^2 /NDF: 148.0/43

All: 401.108 $\pm$ 127.331 χ^2 /NDF: 217.3/84

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2079.147 $\pm$ 0.417 χ^2 /NDF: 612566.9/17

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2146.875 $\pm$ 0.427 χ^2 /NDF: 1101212.2/18

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

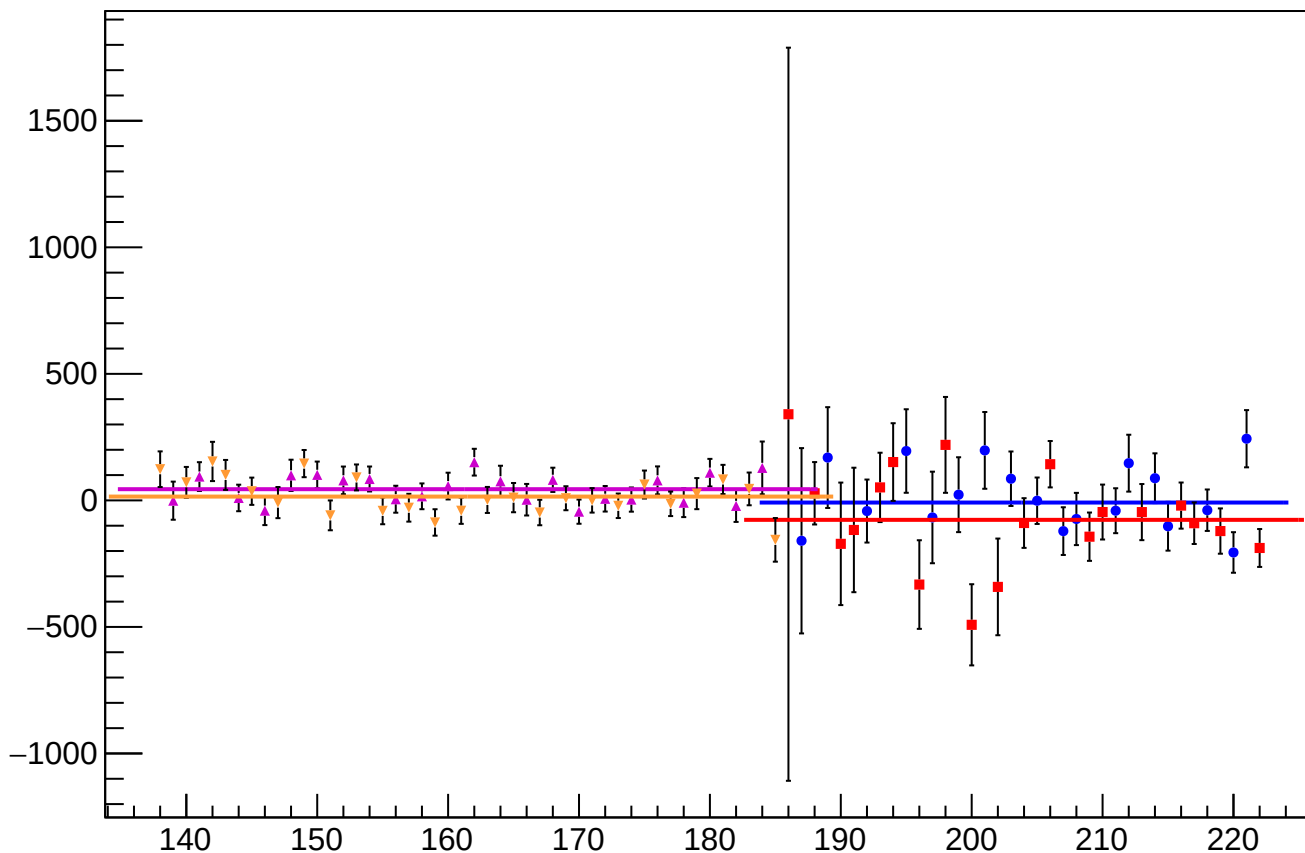
Right: 2112.256 $\pm$ 0.298 χ^2 /NDF: 1726660.5/36

In: 908.215 $\pm$ 0.129 χ^2 /NDF: 10279338.3/40

Out: 907.274 $\pm$ 0.126 χ^2 /NDF: 11466212.5/43

All: 907.736 $\pm$ 0.090 χ^2 /NDF: 21745578.0/84

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -8.502 ± 26.123 $\chi^2/\text{NDF}: 22.3/17$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -76.852 ± 26.791 $\chi^2/\text{NDF}: 26.5/18$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

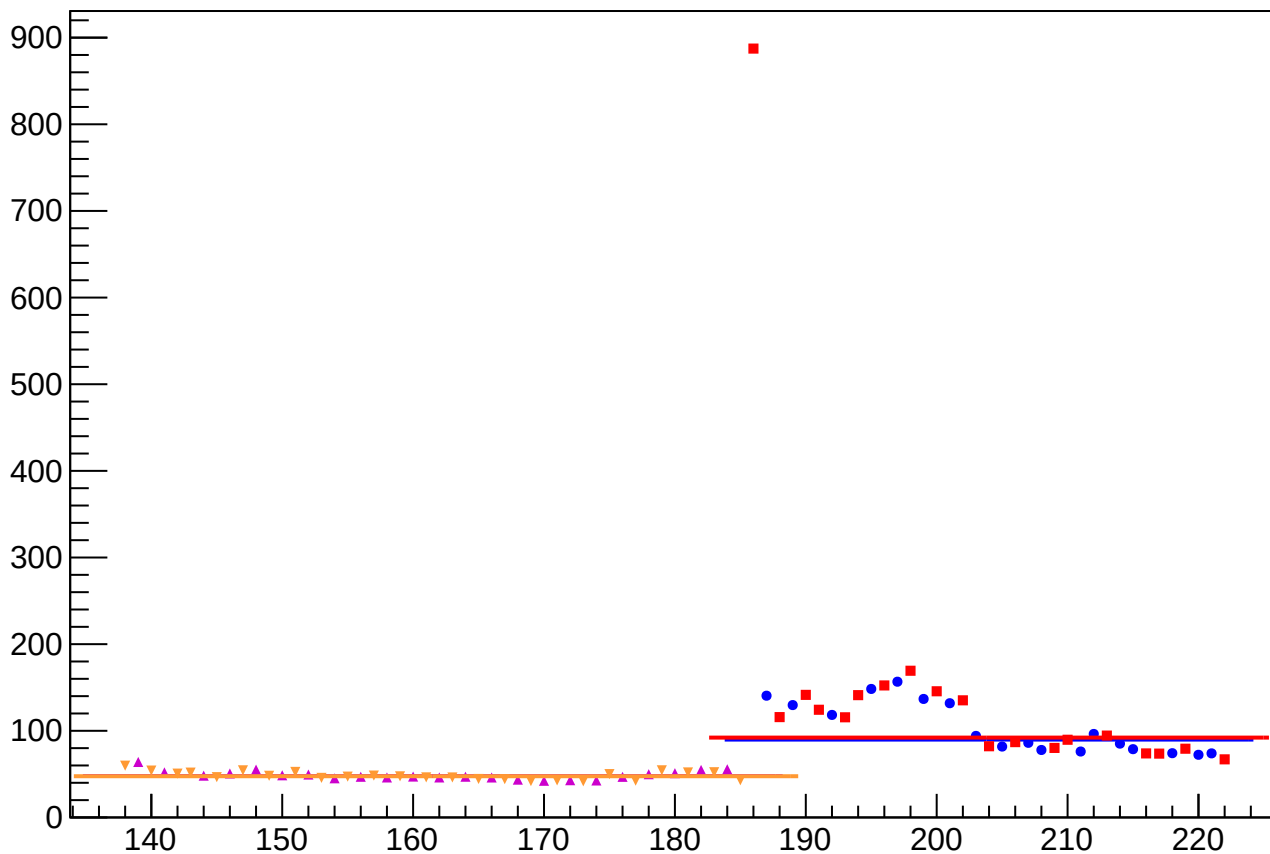
Right: -41.815 ± 18.703 $\chi^2/\text{NDF}: 52.2/36$

In: 35.689 ± 10.548 $\chi^2/\text{NDF}: 48.0/40$

Out: 1.515 ± 10.297 $\chi^2/\text{NDF}: 70.8/43$

All: 18.191 ± 7.368 $\chi^2/\text{NDF}: 124.1/84$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 89.882 $\pm$ 0.018 χ^2 /NDF: 1443894.9/17

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 92.163 $\pm$ 0.019 χ^2 /NDF: 2455689.7/18

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

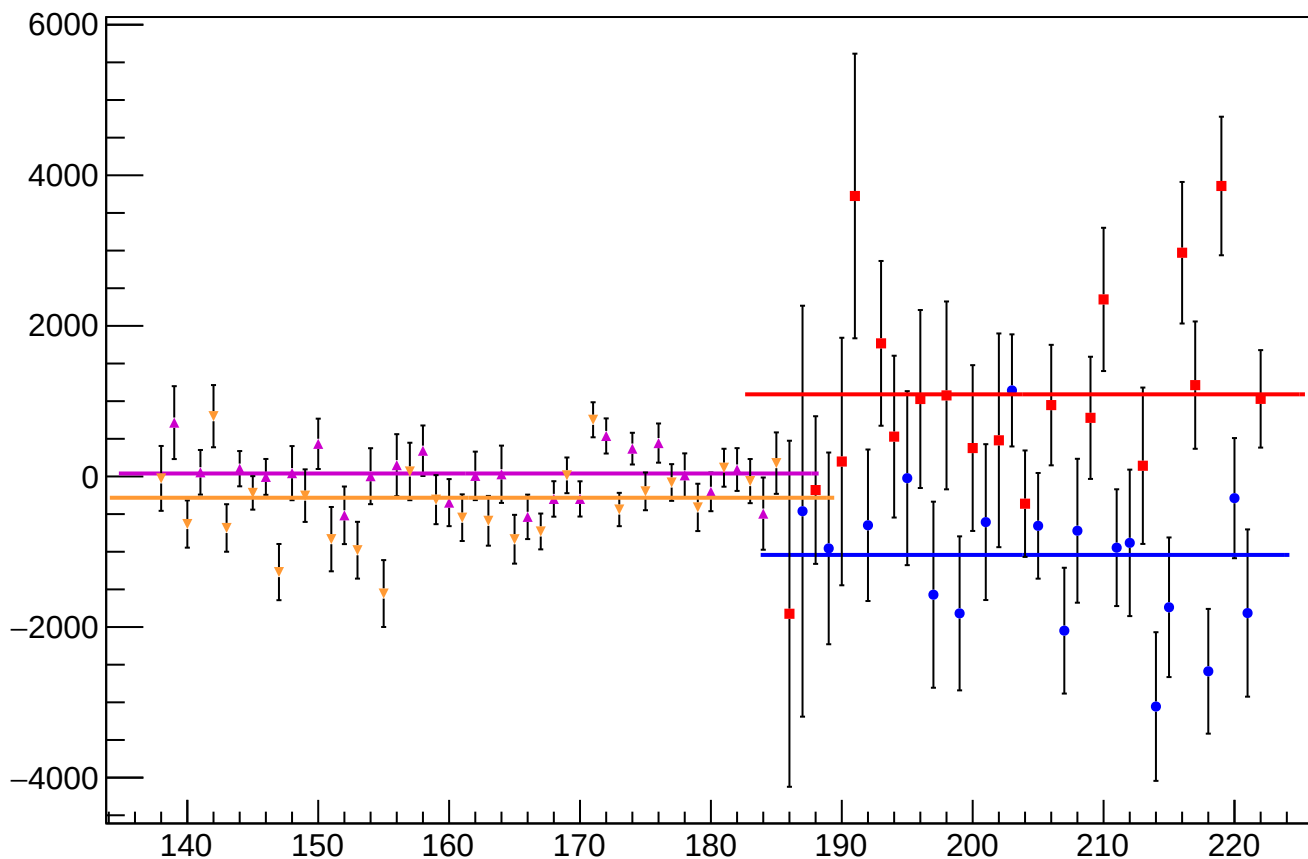
Right: 90.993 $\pm$ 0.013 χ^2 /NDF: 3907019.0/36

In: 54.700 $\pm$ 0.007 χ^2 /NDF: 6060043.2/40

Out: 54.172 $\pm$ 0.007 χ^2 /NDF: 7487558.8/43

All: 54.429 $\pm$ 0.005 χ^2 /NDF: 13550165.7/84

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1042.020 ± 222.819 $\chi^2/\text{NDF}: 22.0/17$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 1090.804 ± 226.624 $\chi^2/\text{NDF}: 26.9/18$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

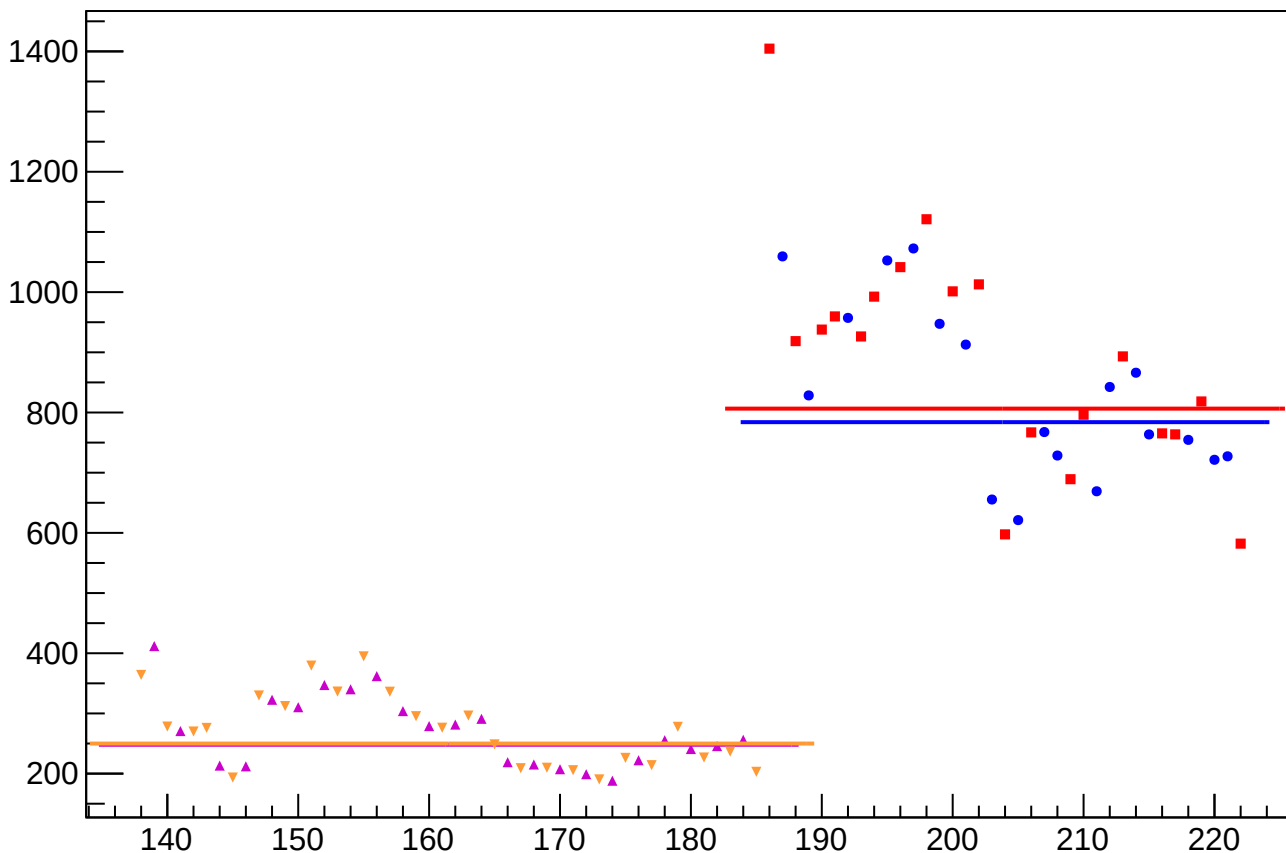
Right: 6.337 ± 158.885 $\chi^2/\text{NDF}: 93.9/36$

In: -35.415 ± 58.619 $\chi^2/\text{NDF}: 71.5/40$

Out: -193.690 ± 57.721 $\chi^2/\text{NDF}: 127.7/43$

All: -115.773 ± 41.129 $\chi^2/\text{NDF}: 202.9/84$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 783.961 $\pm$ 0.158 χ^2 /NDF: 642016.8/17

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 806.453 $\pm$ 0.160 χ^2 /NDF: 1067686.7/18

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

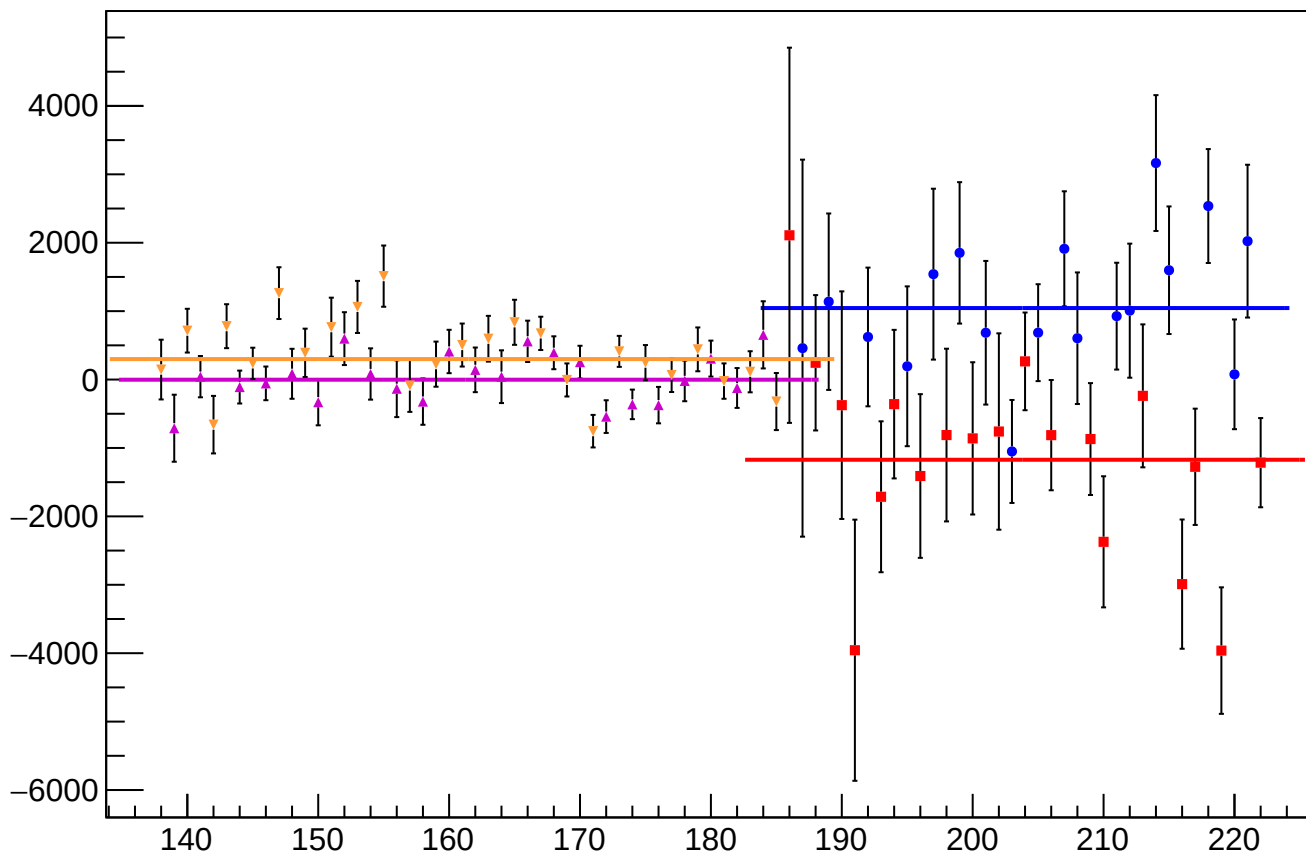
Right: 795.017 $\pm$ 0.112 χ^2 /NDF: 1719720.2/36

In: 285.016 $\pm$ 0.041 χ^2 /NDF:12826862.7/40

Out: 286.058 $\pm$ 0.041 χ^2 /NDF:13959385.5/43

All: 285.545 $\pm$ 0.029 χ^2 /NDF: 26786568.7/84

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1045.223+/-224.611 χ^2/NDF : 21.3/17

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -1172.335+/-228.768 χ^2/NDF : 26.5/18

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

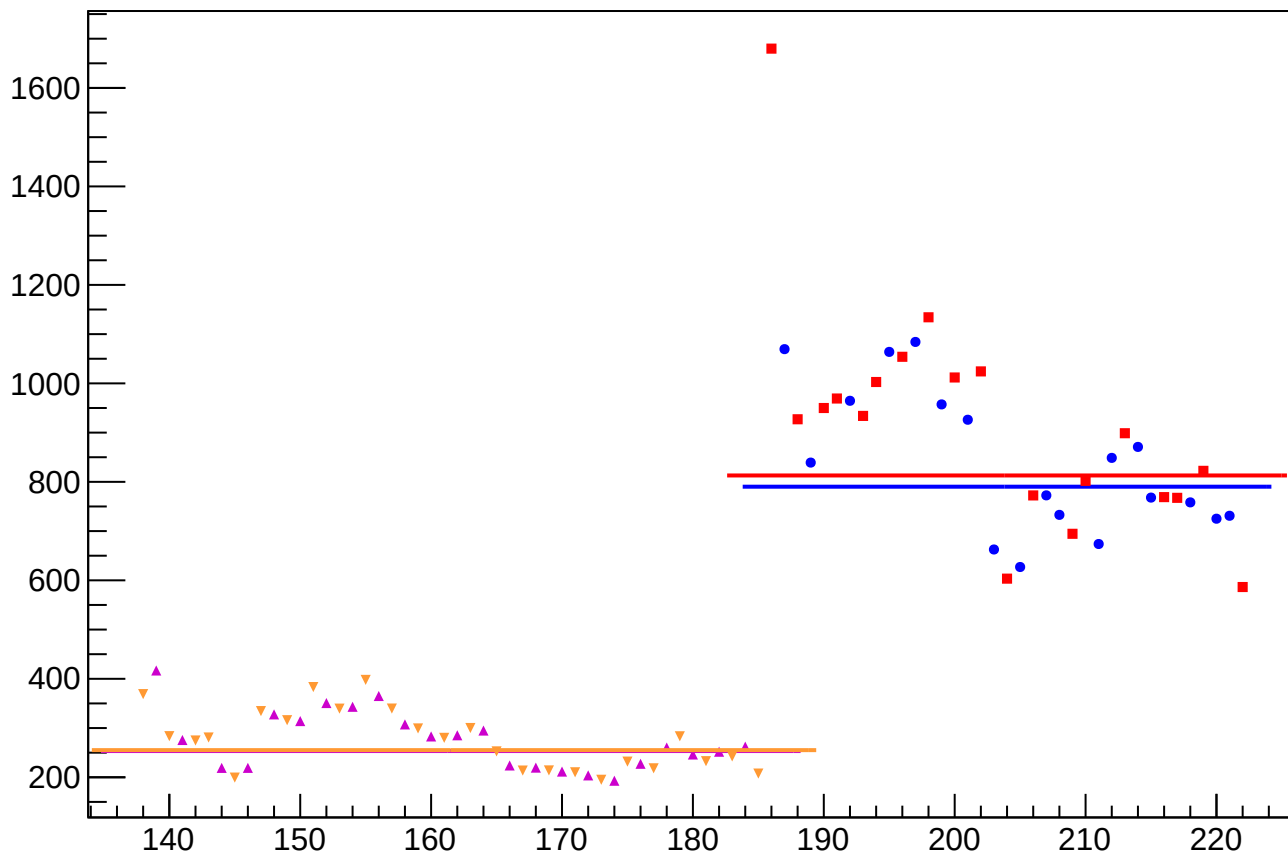
Right: -43.225+/-160.273 χ^2/NDF : 95.6/36

In: 71.982+/-59.769 χ^2/NDF : 70.7/40

Out: 202.276+/-58.814 χ^2/NDF : 127.6/43

All: 138.179+/-41.921 χ^2/NDF : 200.7/84

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 790.166+/-0.159 χ^2/NDF : 648187.2/17

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 812.972+/-0.162 χ^2/NDF : 1141309.5/18

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

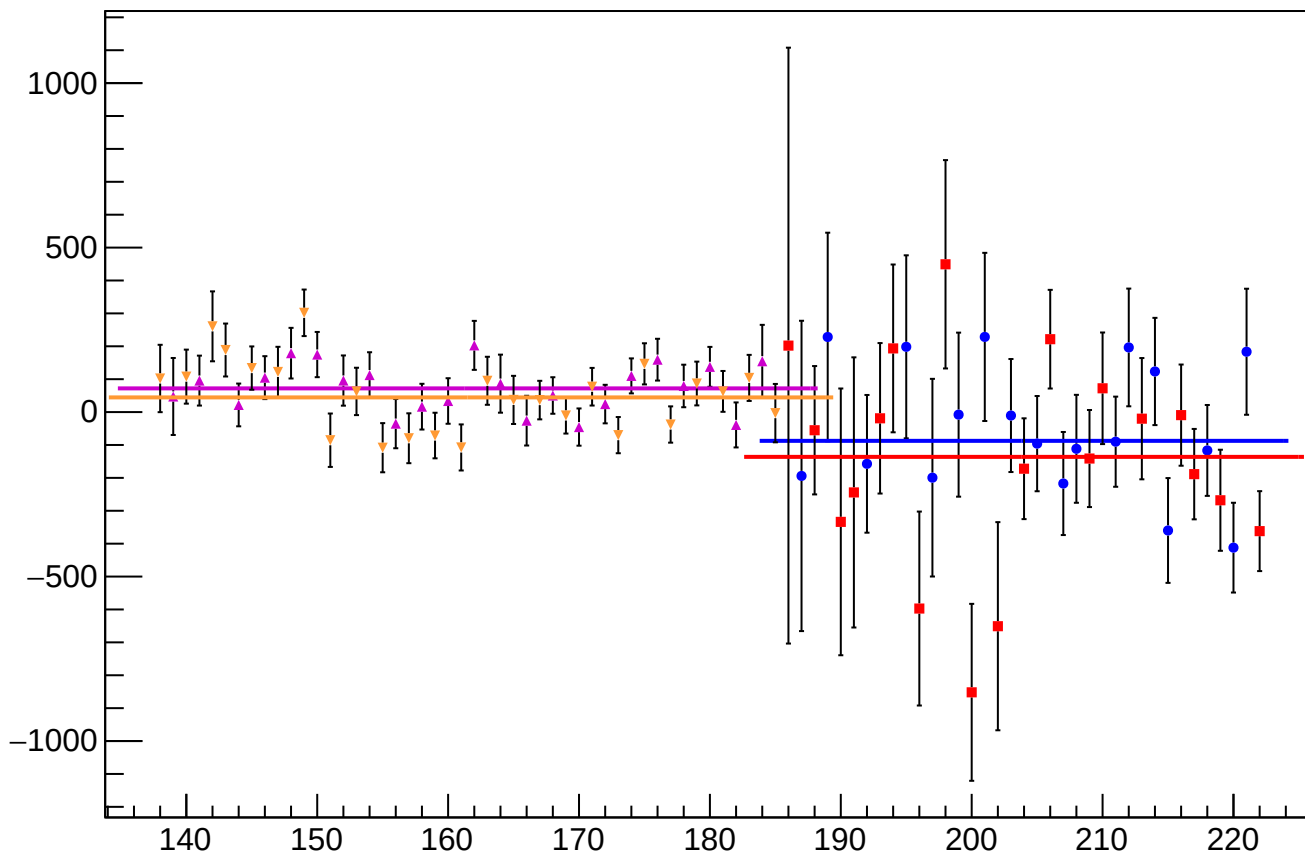
Right: 801.360+/-0.113 χ^2/NDF : 1799616.8/36

In: 291.304+/-0.042 χ^2/NDF : 12607455.2/40

Out: 292.006+/-0.042 χ^2/NDF : 13789342.9/43

All: 291.660+/-0.030 χ^2/NDF : 26396938.4/84

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -87.435 ± 42.753 $\chi^2/\text{NDF}: 19.7/17$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -136.138 ± 43.775 $\chi^2/\text{NDF}: 30.8/18$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

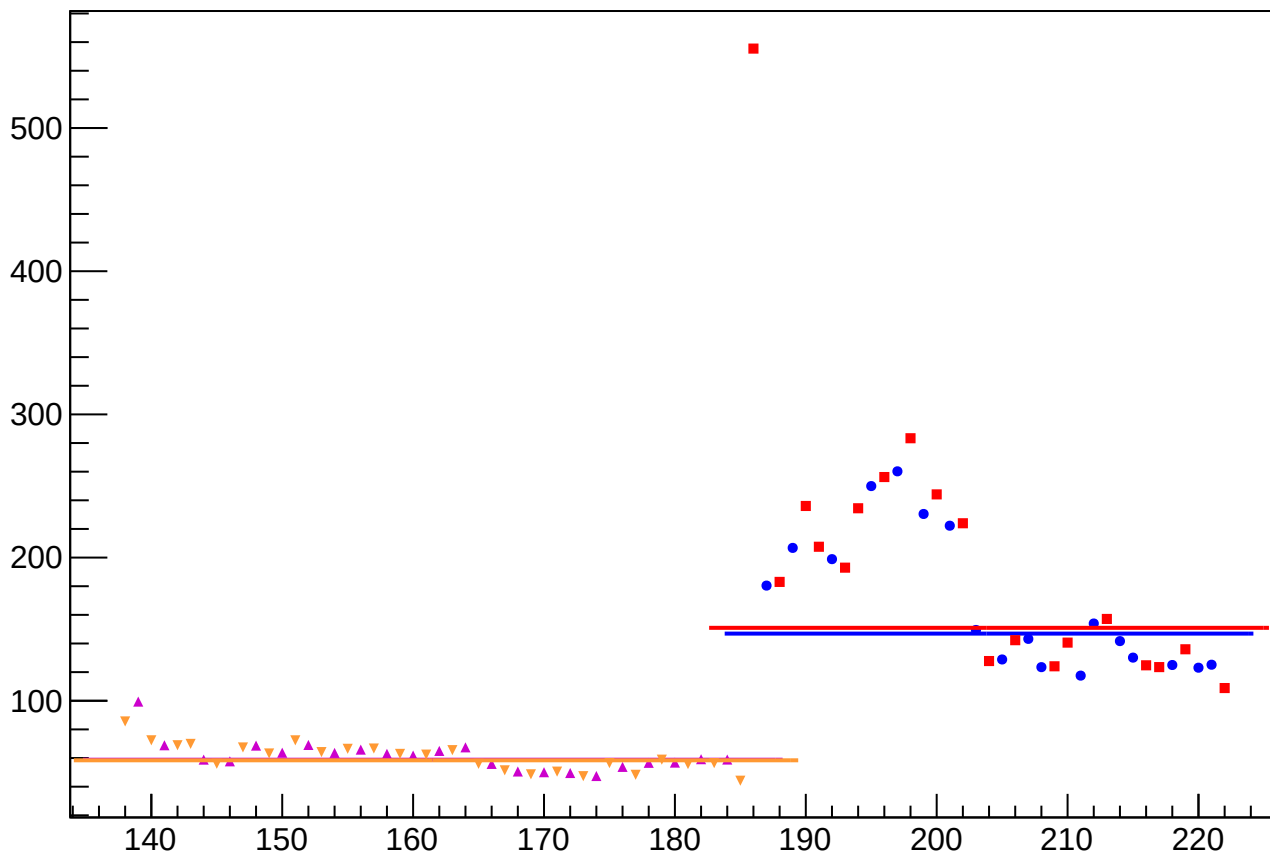
Right: -111.211 ± 30.586 $\chi^2/\text{NDF}: 51.2/36$

In: 55.998 ± 13.558 $\chi^2/\text{NDF}: 57.5/40$

Out: 28.211 ± 13.183 $\chi^2/\text{NDF}: 100.2/43$

All: 41.714 ± 9.452 $\chi^2/\text{NDF}: 159.9/84$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 146.909 $\pm$ 0.030 χ^2 /NDF: 1491930.7/17

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 150.944 $\pm$ 0.031 χ^2 /NDF: 2337588.7/18

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

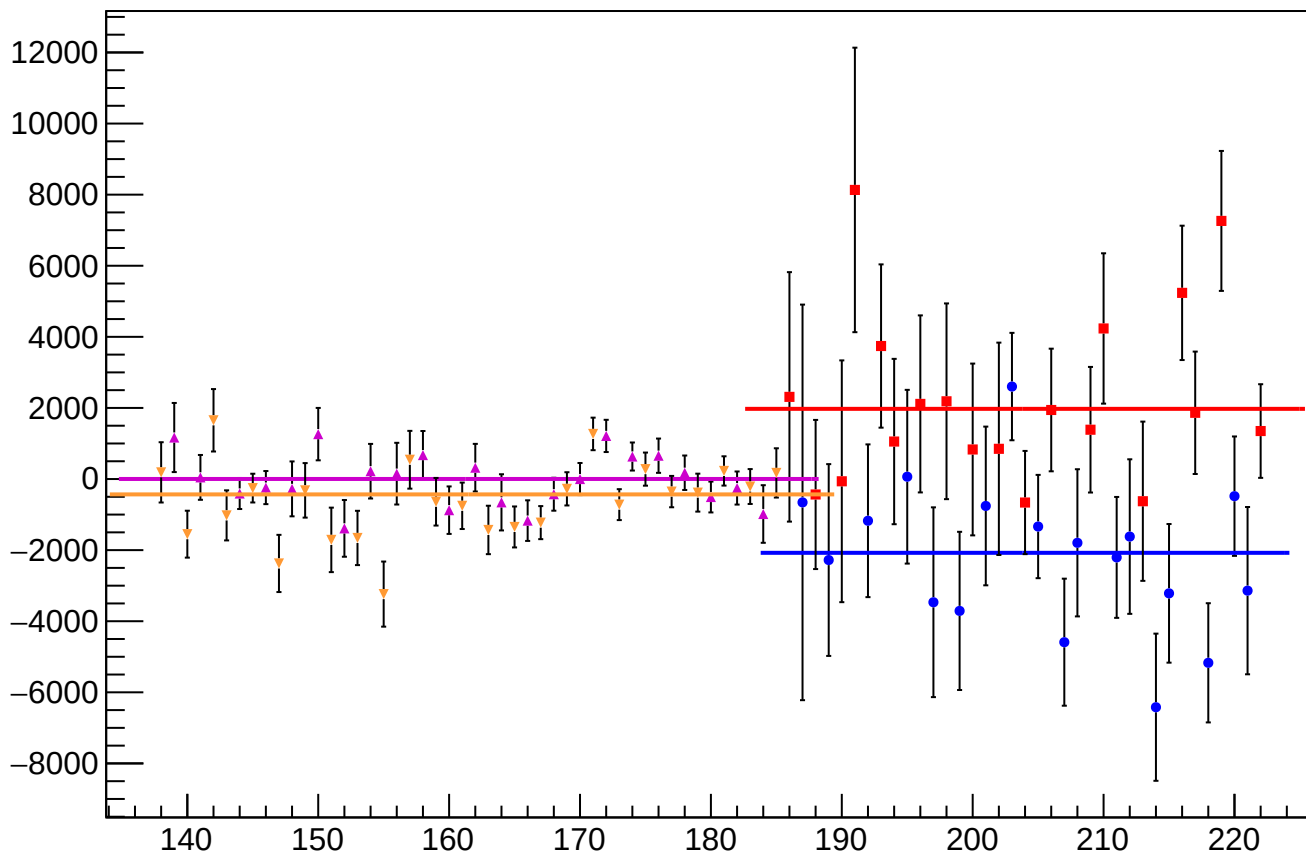
Right: 148.879 $\pm$ 0.022 χ^2 /NDF: 3838216.4/36

In: 67.697 $\pm$ 0.010 χ^2 /NDF: 9805116.7/40

Out: 66.813 $\pm$ 0.009 χ^2 /NDF: 11251807.3/43

All: 67.243 $\pm$ 0.007 χ^2 /NDF: 21061292.6/84

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2075.837 ± 471.412 $\chi^2/\text{NDF}: 23.3/17$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1974.458 ± 475.961 $\chi^2/\text{NDF}: 21.5/18$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

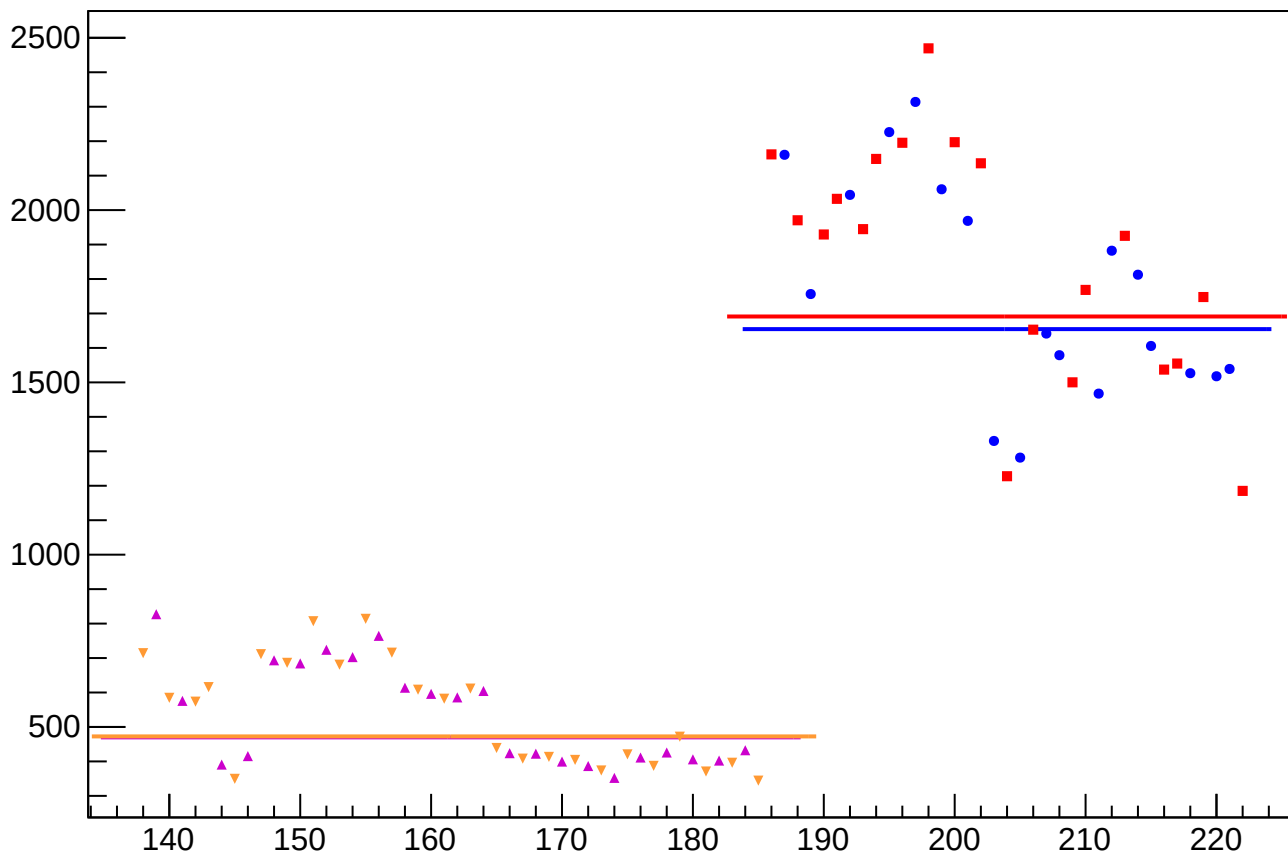
Right: -70.136 ± 334.935 $\chi^2/\text{NDF}: 81.4/36$

In: -117.681 ± 113.060 $\chi^2/\text{NDF}: 73.9/40$

Out: -300.864 ± 111.240 $\chi^2/\text{NDF}: 105.1/43$

All: -210.759 ± 79.294 $\chi^2/\text{NDF}: 180.3/84$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1654.589 $\pm$ 0.333 χ^2 /NDF: 738404.5/17

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 1691.231 $\pm$ 0.337 χ^2 /NDF: 1146879.5/18

Left In: 469.761 $\pm$ 0.082 χ^2 /NDF: 2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2 /NDF: 4625646.2/47

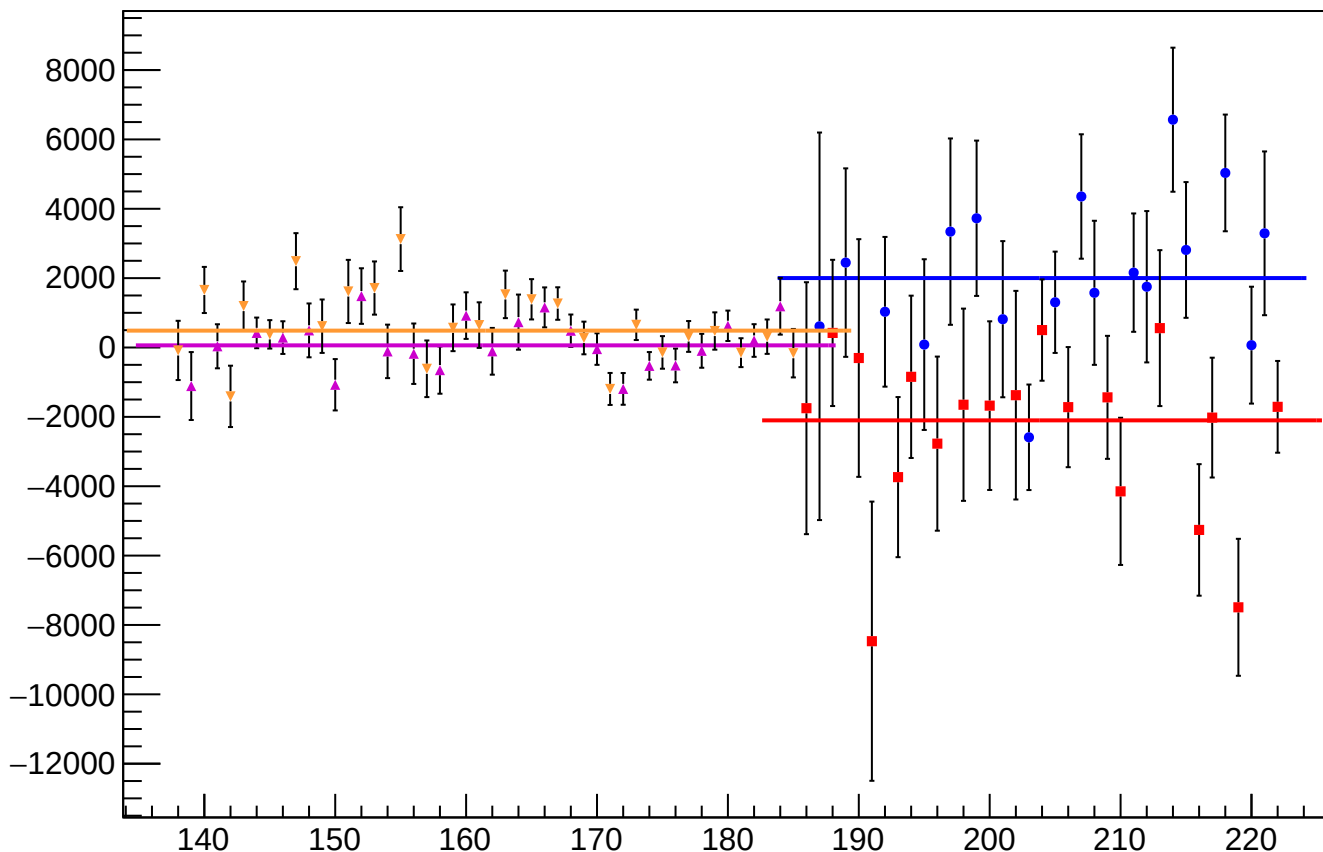
Right: 1672.734 $\pm$ 0.237 χ^2 /NDF: 1891267.5/36

In: 537.912 $\pm$ 0.080 χ^2 /NDF: 14762543.4/40

Out: 539.136 $\pm$ 0.079 χ^2 /NDF: 16050412.6/43

All: 538.534 $\pm$ 0.056 χ^2 /NDF: 30813075.0/84

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2001.952 $\pm$ 473.674 χ^2 /NDF: 23.0/17

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -2100.869 $\pm$ 478.484 χ^2 /NDF: 21.2/18

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

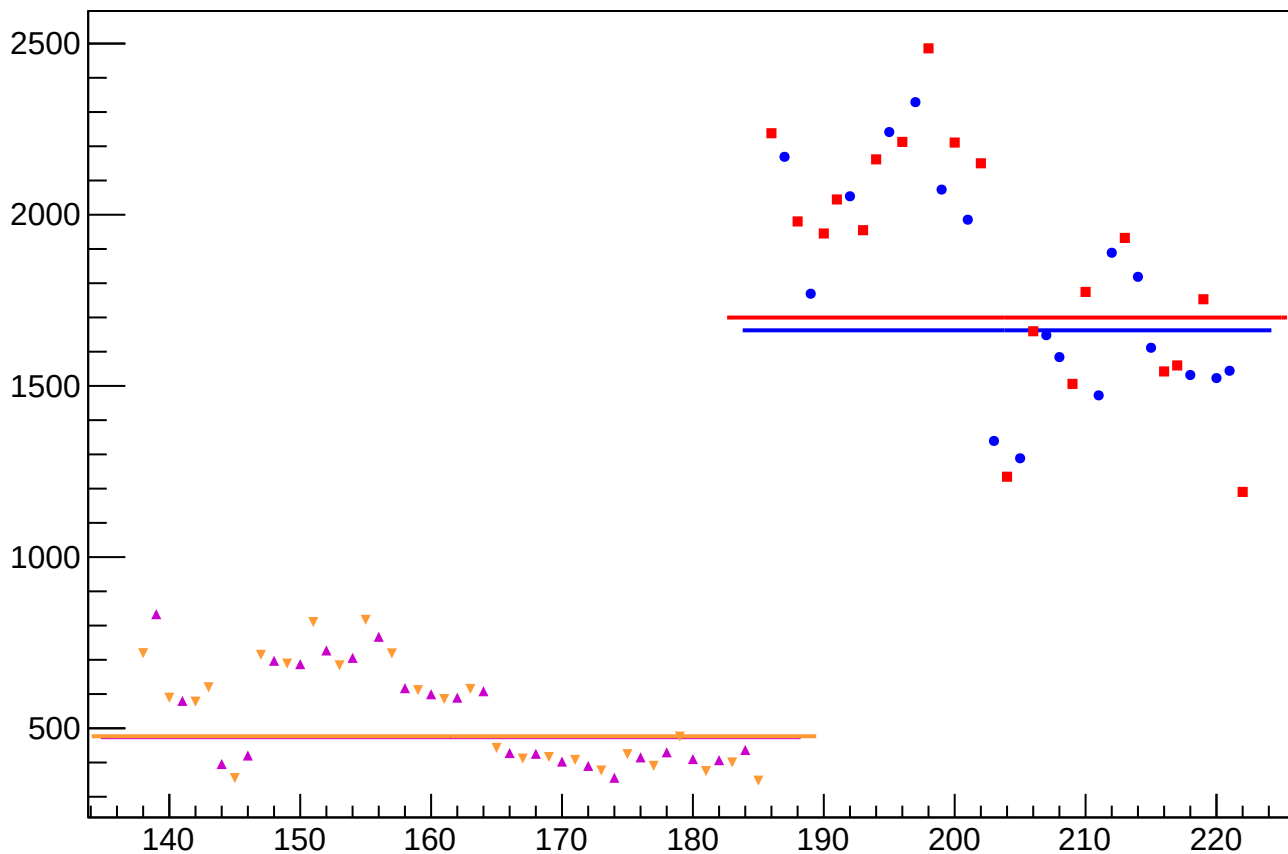
Right: -28.735 $\pm$ 336.626 χ^2 /NDF: 81.3/36

In: 174.149 $\pm$ 113.997 χ^2 /NDF:70.0/40

Out: 344.536 $\pm$ 112.134 χ^2 /NDF:104.9/43

All: 260.746 $\pm$ 79.941 χ^2 /NDF: 176.0/84

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1662.418 $\pm$ 0.335 χ^2 /NDF: 741732.6/17

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1699.753 $\pm$ 0.338 χ^2 /NDF: 1160936.8/18

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

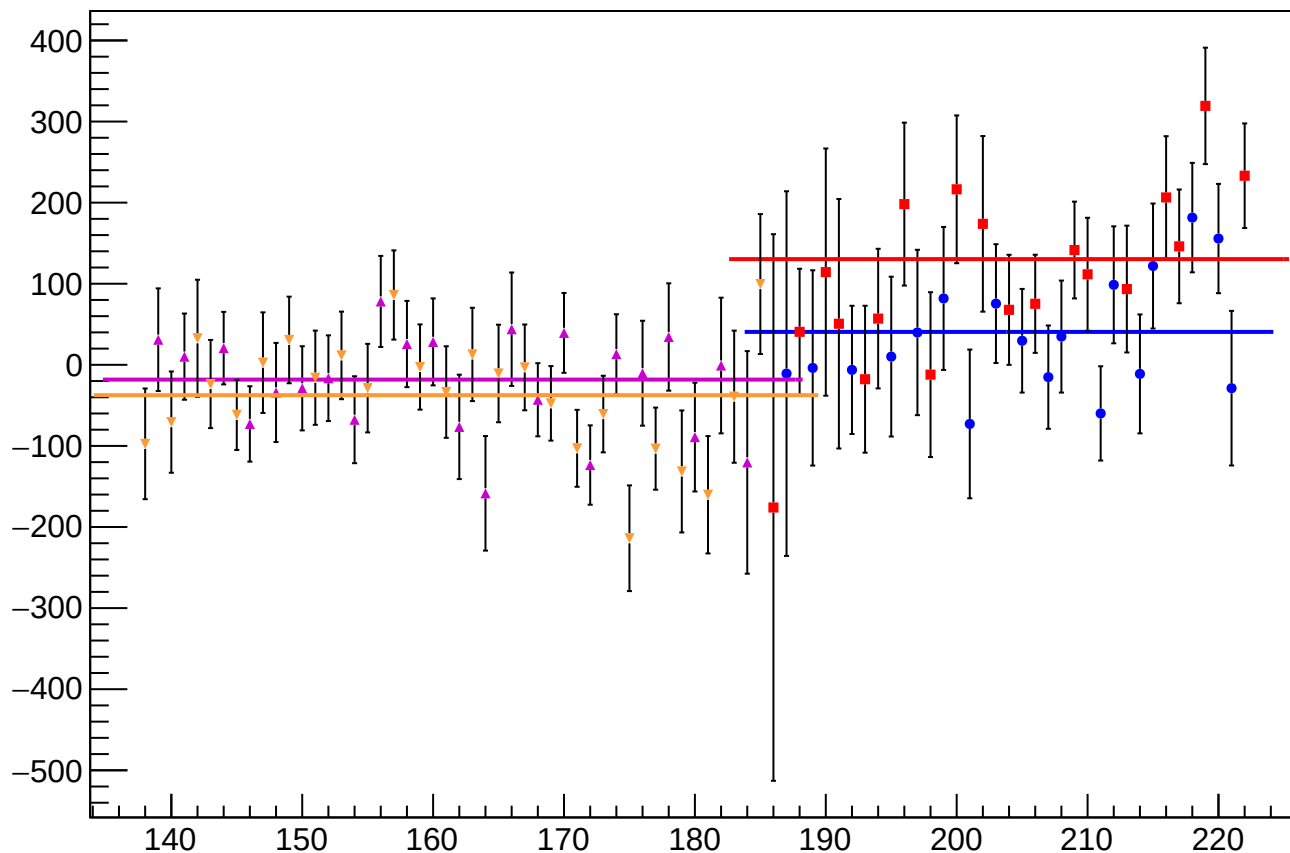
Right: 1680.897 $\pm$ 0.238 χ^2 /NDF: 1908819.4/36

In: 542.817 $\pm$ 0.081 χ^2 /NDF: 14689502.3/40

Out: 543.862 $\pm$ 0.079 χ^2 /NDF: 15983507.5/43

All: 543.348 $\pm$ 0.057 χ^2 /NDF: 30673095.2/84

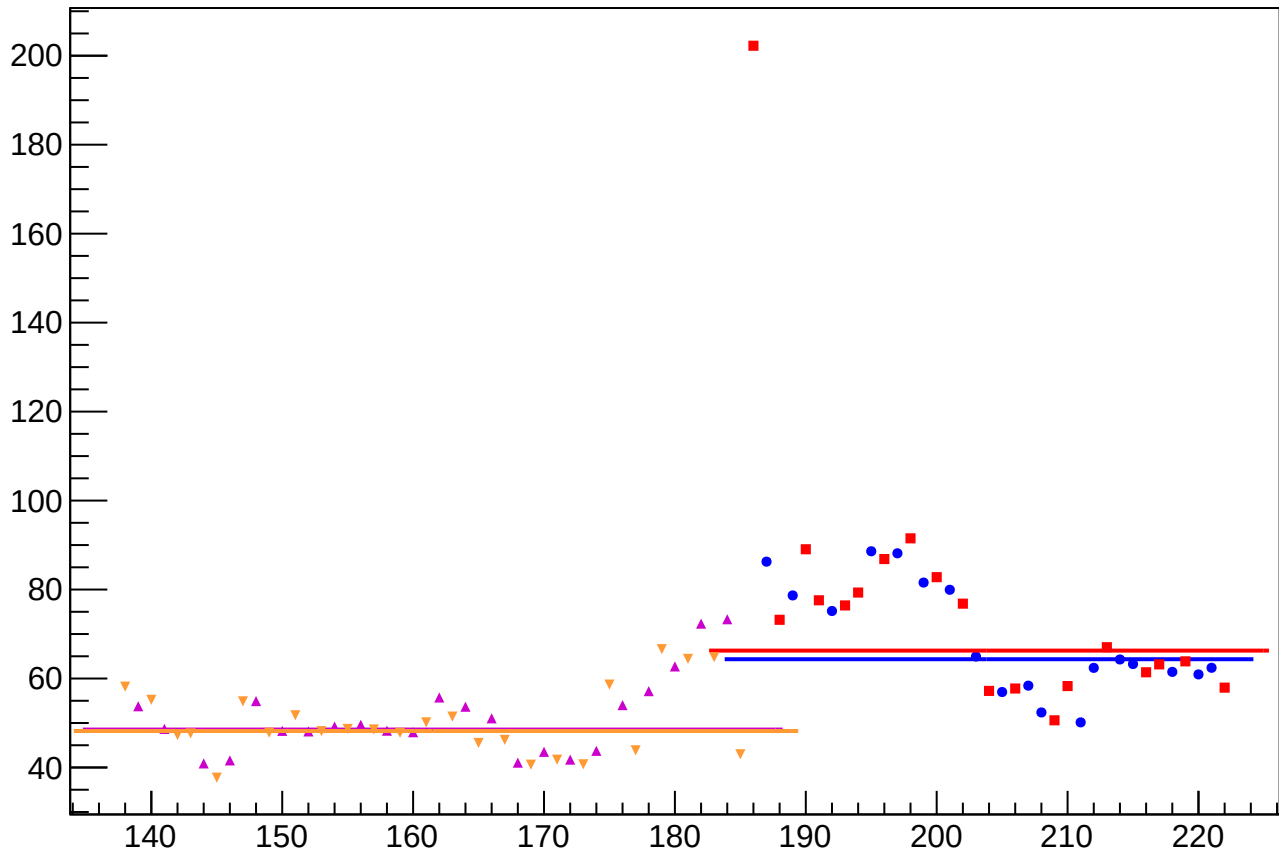
reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 40.605 ± 18.333 $\chi^2/\text{NDF}: 16.5/17$
 Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$
 Right Out: 130.360 ± 18.661 $\chi^2/\text{NDF}: 21.9/18$
 Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$
 Right: 84.687 ± 13.078 $\chi^2/\text{NDF}: 50.1/36$
 In: -1.007 ± 9.915 $\chi^2/\text{NDF}: 46.7/40$
 Out: 8.124 ± 9.722 $\chi^2/\text{NDF}: 111.2/43$
 All: 3.648 ± 6.942 $\chi^2/\text{NDF}: 158.4/84$

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.337 ± 0.013 $\chi^2/\text{NDF}: 684589.8/17$

Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$

Right Out: 66.277 ± 0.013 $\chi^2/\text{NDF}: 1047234.9/18$

Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$

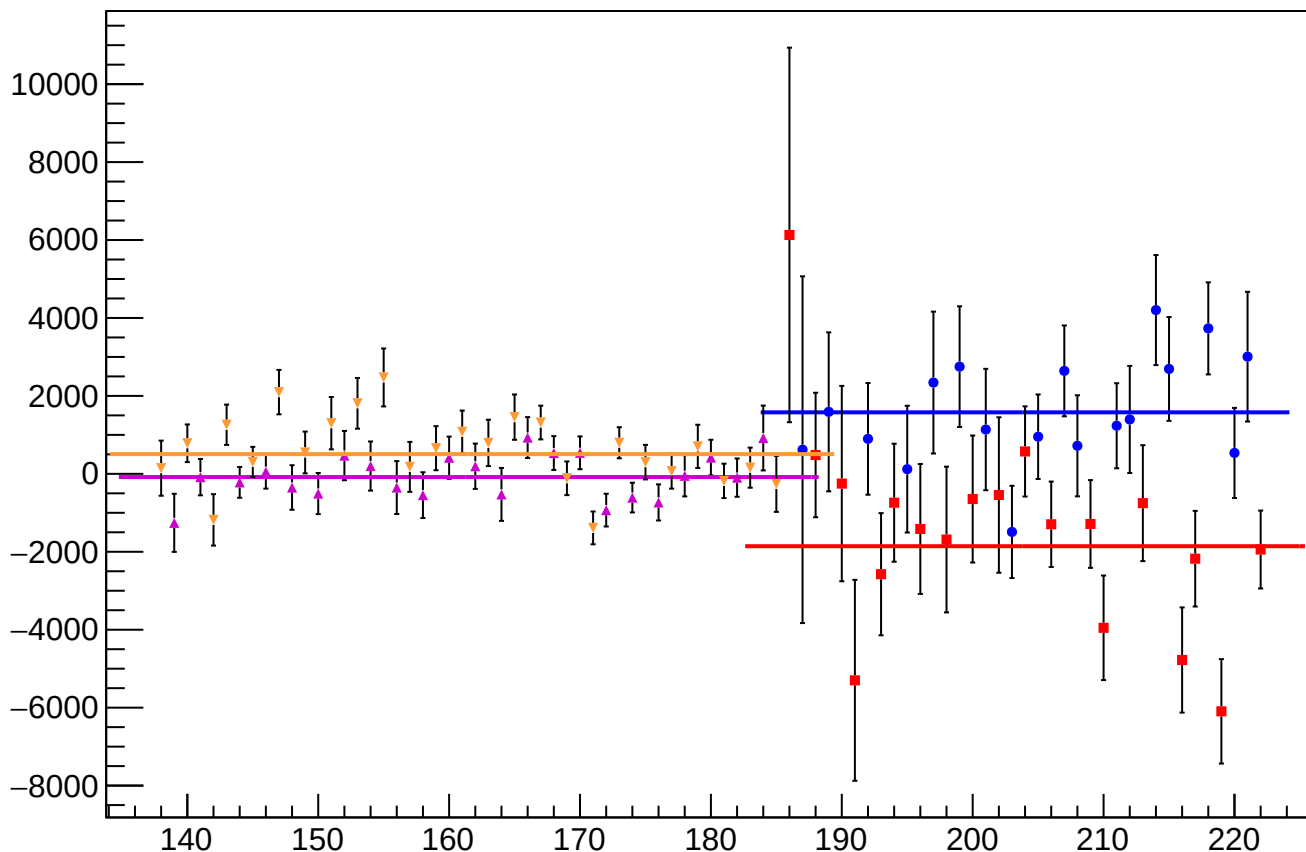
Right: 65.290 ± 0.009 $\chi^2/\text{NDF}: 1742828.7/36$

In: 53.151 ± 0.007 $\chi^2/\text{NDF}: 2412303.8/40$

Out: 53.106 ± 0.007 $\chi^2/\text{NDF}: 3164941.5/43$

All: 53.128 ± 0.005 $\chi^2/\text{NDF}: 5577266.3/84$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1578.183+/-325.452 χ^2/NDF : 19.4/17

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1857.066+/-333.152 χ^2/NDF : 31.6/18

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

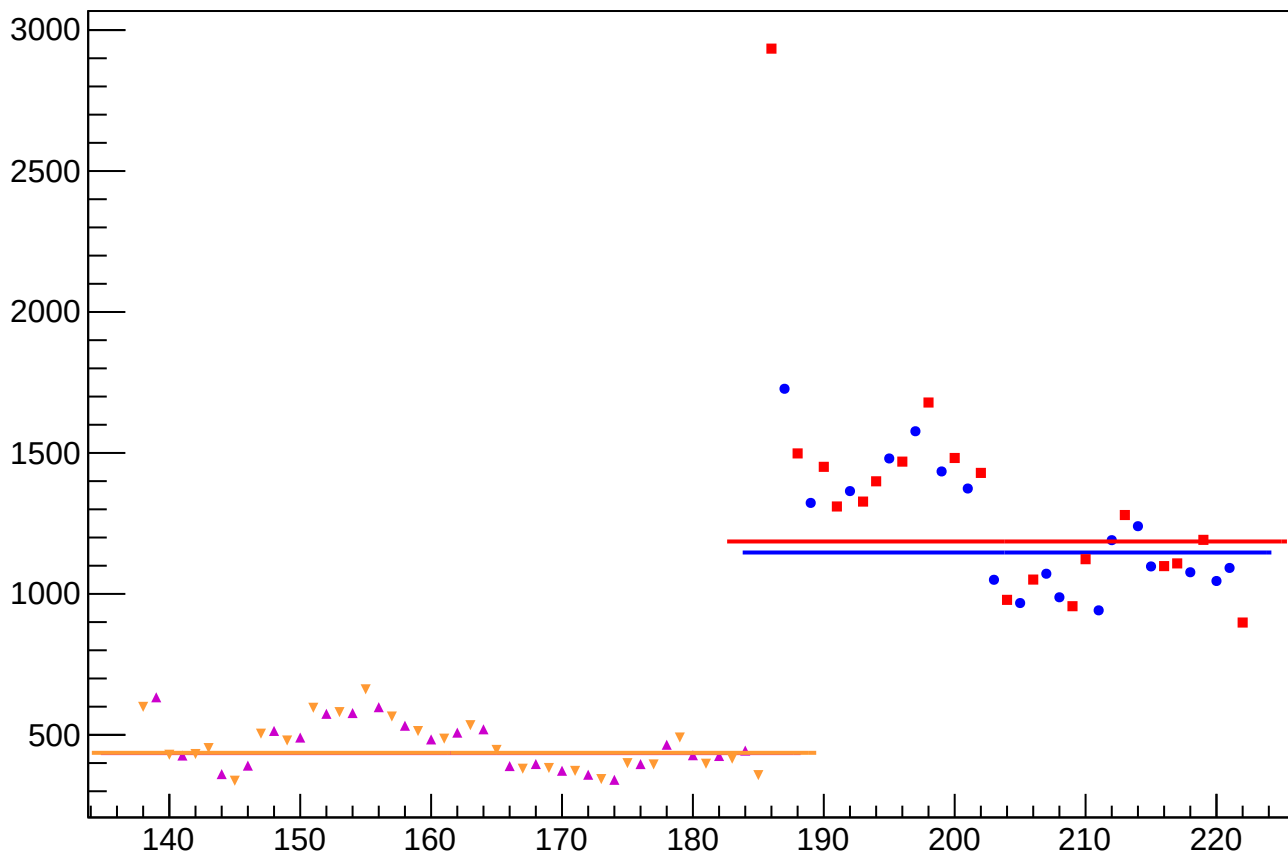
Right: -99.288+/-232.804 χ^2/NDF : 105.4/36

In: 76.667+/-100.733 χ^2/NDF : 68.3/40

Out: 298.308+/-98.812 χ^2/NDF : 143.2/43

All: 189.621+/-70.540 χ^2/NDF : 213.9/84

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1146.860 $\pm$ 0.230 χ^2 /NDF: 617503.2/17

Left Out: 436.301 $\pm$ 0.073 χ^2 /NDF:1179348.4/24

Right Out: 1185.974 $\pm$ 0.236 χ^2 /NDF: 1088717.2/18

Left In: 435.275 $\pm$ 0.075 χ^2 /NDF:1027713.1/22

Left: 435.800 $\pm$ 0.052 χ^2 /NDF: 2207157.7/47

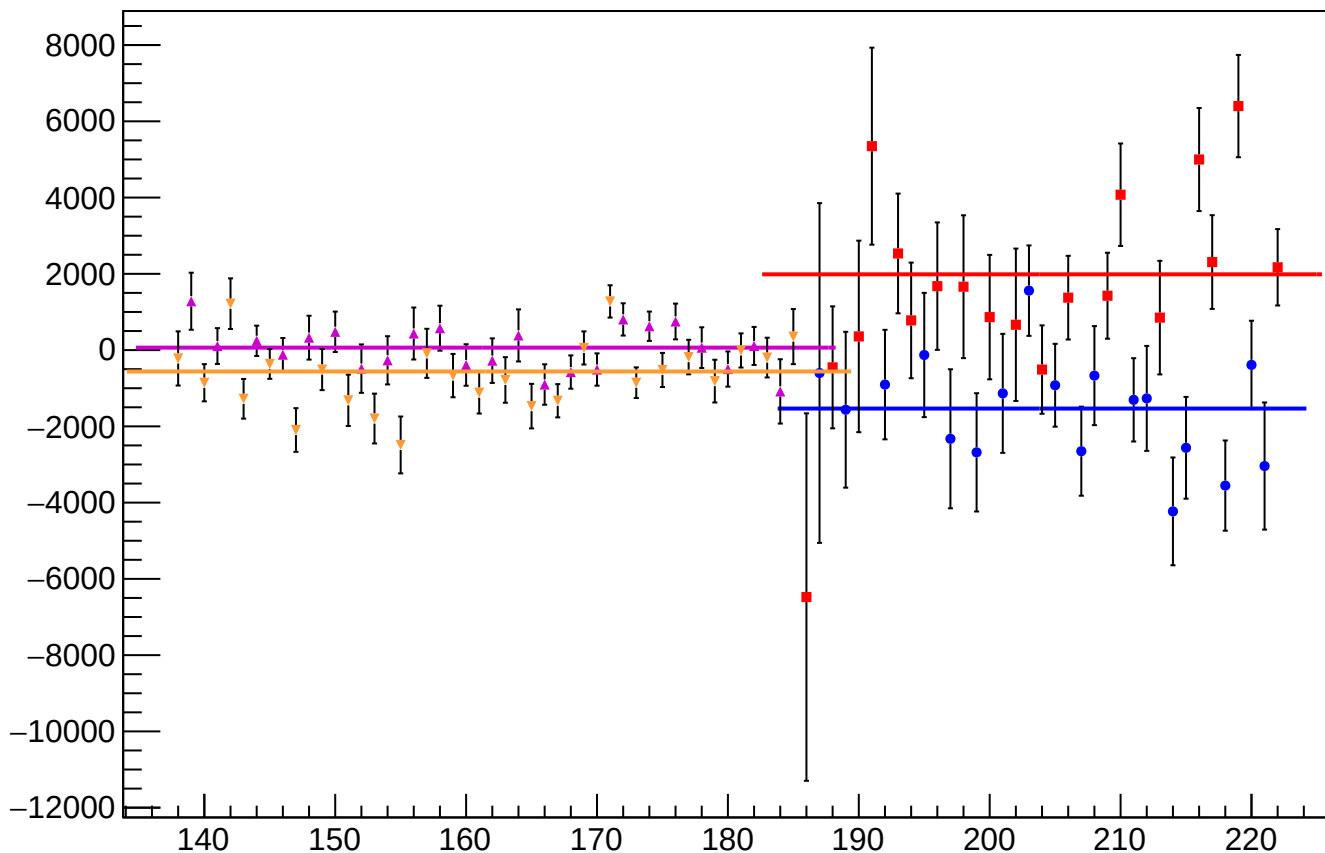
Right: 1165.960 $\pm$ 0.165 χ^2 /NDF: 1720326.7/36

In: 503.446 $\pm$ 0.071 χ^2 /NDF:10290368.1/40

Out: 502.250 $\pm$ 0.070 χ^2 /NDF:11504369.5/43

All: 502.836 $\pm$ 0.050 χ^2 /NDF: 21794881.1/84

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1533.065+/-325.998 χ^2/NDF : 19.3/17

Left Out: -560.684+/-104.207 χ^2/NDF : 61.8/24

Right Out: 1987.011+/-333.710 χ^2/NDF : 33.3/18

Left In: 64.594+/-106.708 χ^2/NDF : 25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

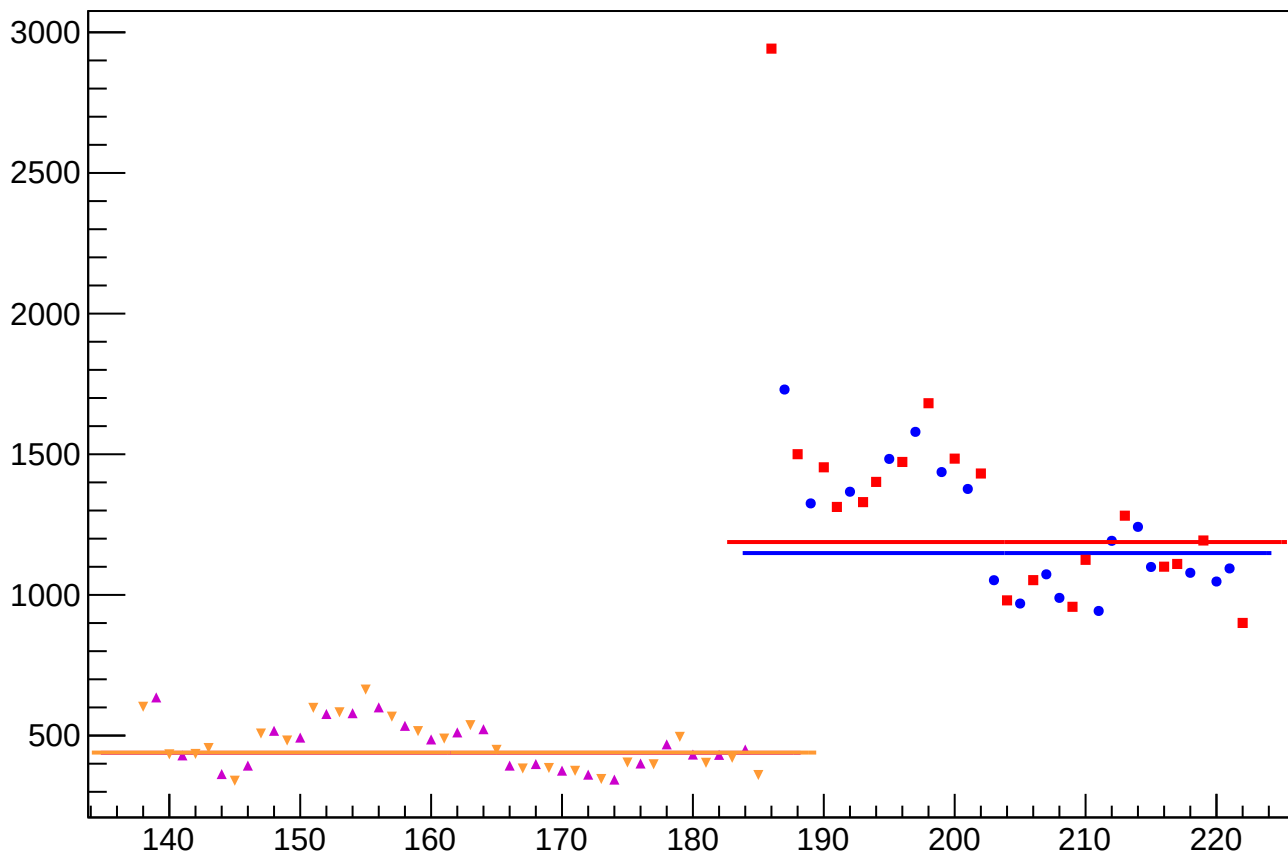
Right: 185.824+/-233.194 χ^2/NDF : 109.5/36

In: -90.017+/-101.413 χ^2/NDF : 66.1/40

Out: -334.327+/-99.470 χ^2/NDF : 148.2/43

All: -214.535+/-71.013 χ^2/NDF : 217.3/84

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1148.778 $\pm$ 0.231 χ^2 /NDF: 617834.0/17

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24

Right Out: 1187.967 $\pm$ 0.236 χ^2 /NDF: 1088679.1/18

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

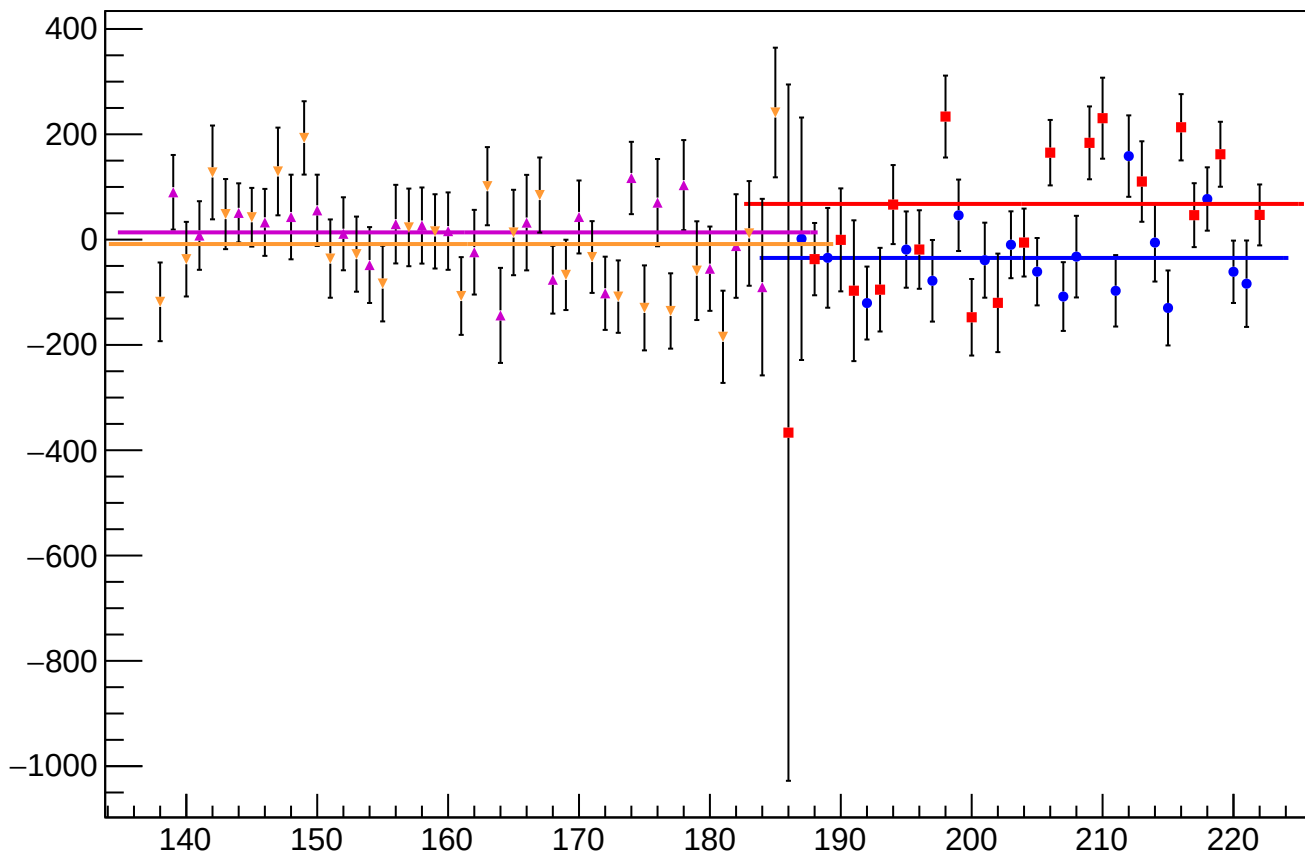
Right: 1167.915 $\pm$ 0.165 χ^2 /NDF: 1720626.5/36

In: 507.279 $\pm$ 0.072 χ^2 /NDF:10205161.0/40

Out: 506.024 $\pm$ 0.070 χ^2 /NDF:11418371.1/43

All: 506.640 $\pm$ 0.050 χ^2 /NDF: 21623688.3/84

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -34.819 ± 16.957 $\chi^2/\text{NDF}: 18.0/17$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: 67.785 ± 16.920 $\chi^2/\text{NDF}: 47.0/18$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

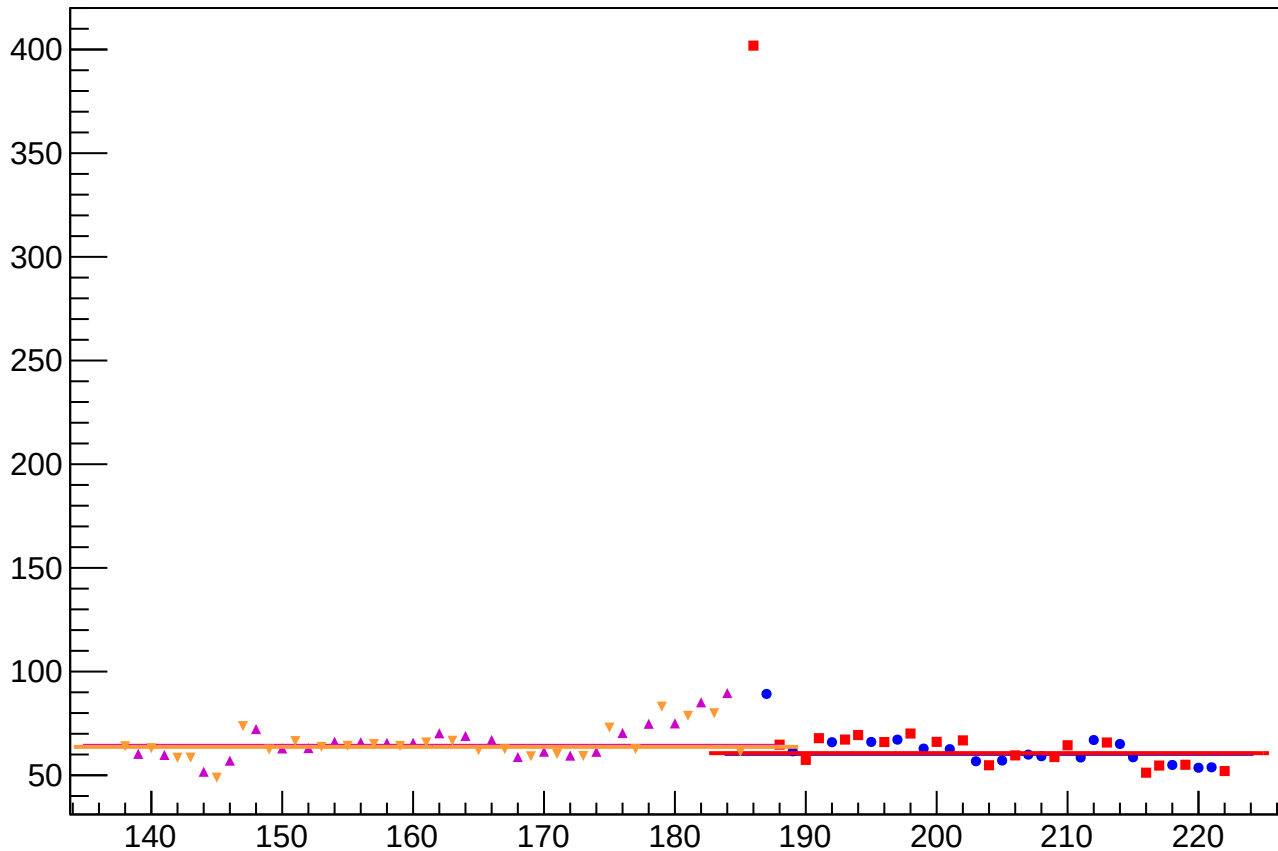
Right: 16.595 ± 11.977 $\chi^2/\text{NDF}: 83.3/36$

In: -8.339 ± 11.432 $\chi^2/\text{NDF}: 38.7/40$

Out: 24.954 ± 11.197 $\chi^2/\text{NDF}: 100.0/43$

All: 8.653 ± 7.999 $\chi^2/\text{NDF}: 143.0/84$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 60.339 $\pm$ 0.012 χ^2 /NDF: 169338.0/17

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 60.646 $\pm$ 0.012 χ^2 /NDF: 805958.9/18

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

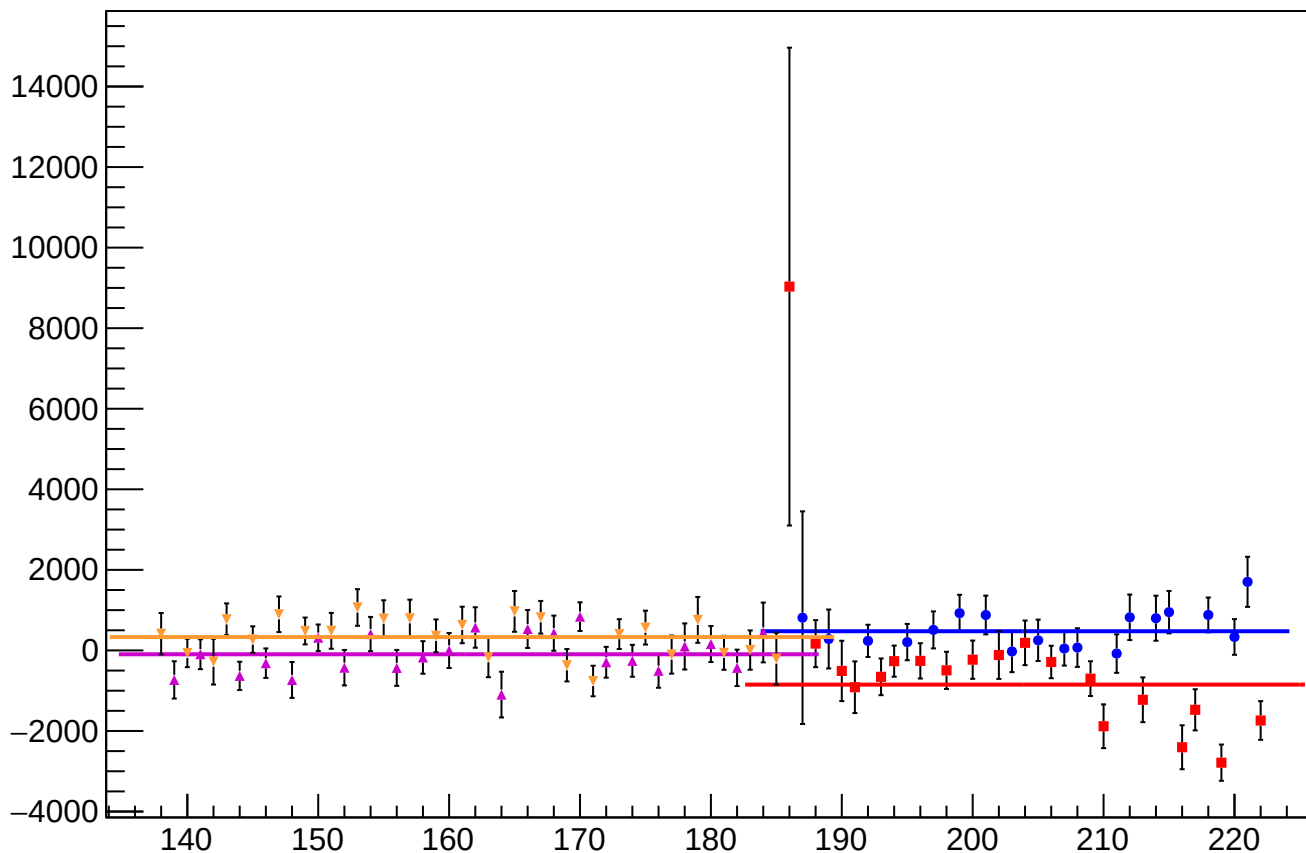
Right: 60.493 $\pm$ 0.008 χ^2 /NDF: 975626.5/36

In: 62.439 $\pm$ 0.008 χ^2 /NDF: 655268.1/40

Out: 62.360 $\pm$ 0.008 χ^2 /NDF: 1290925.6/43

All: 62.399 $\pm$ 0.006 χ^2 /NDF: 1946242.1/84

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 476.347+/-117.900 χ^2/NDF : 13.1/17

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -849.347+/-116.454 χ^2/NDF : 55.4/18

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

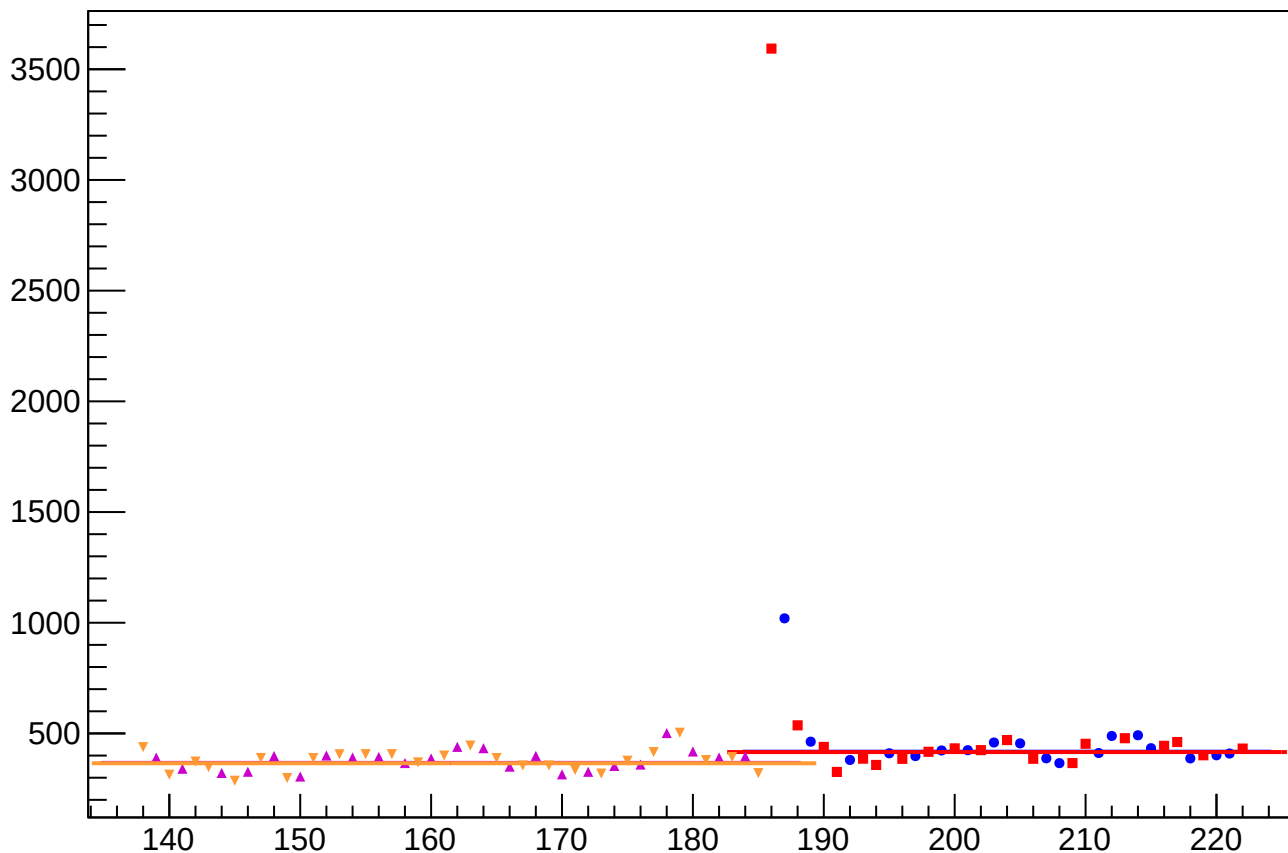
Right: -194.680+/-82.852 χ^2/NDF : 132.5/36

In: 110.791+/-70.858 χ^2/NDF : 56.8/40

Out: -85.516+/-69.217 χ^2/NDF : 151.8/43

All: 10.338+/-49.514 χ^2/NDF : 212.6/84

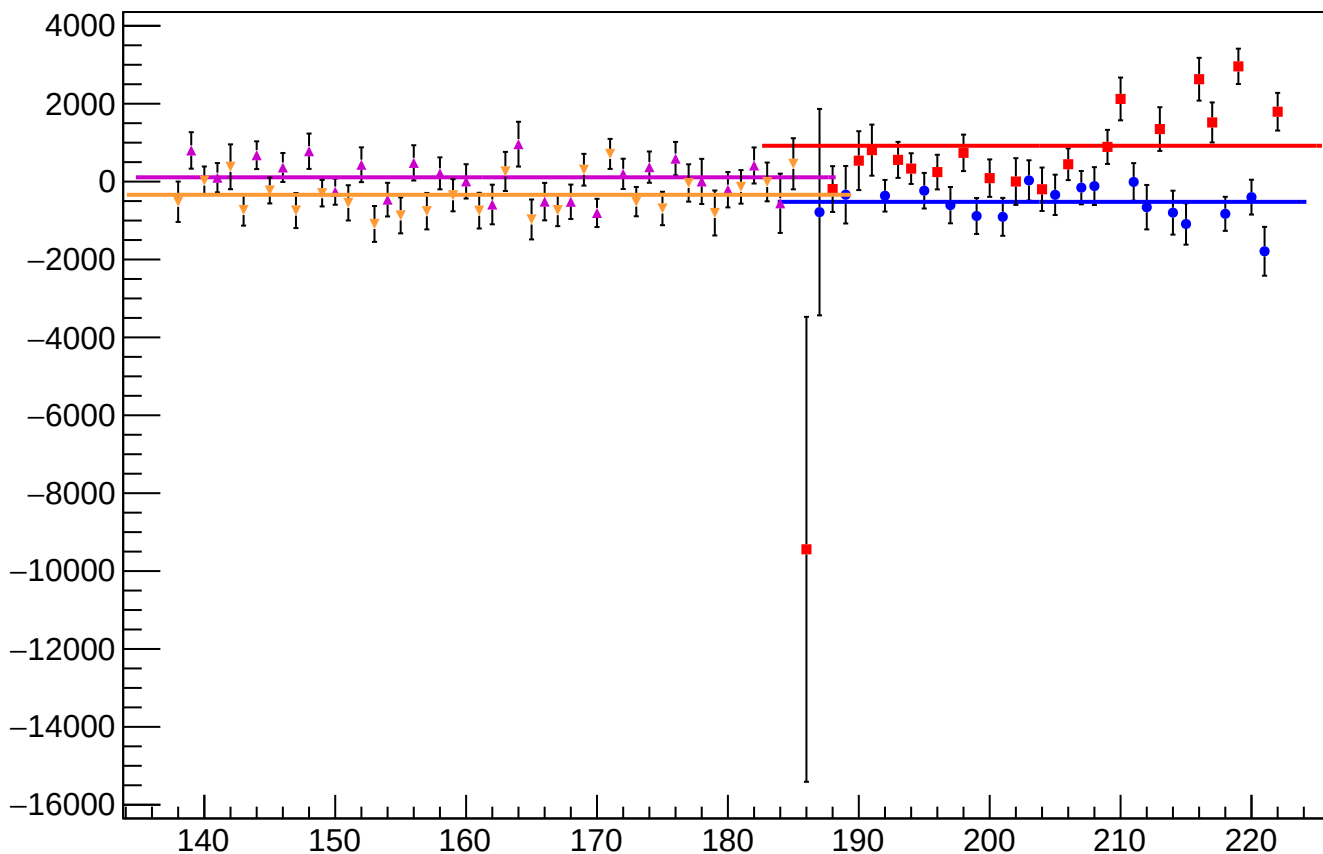
asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 417.470 $\pm$ 0.083 χ^2 /NDF: 272866.1/17
 Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24
 Right Out: 415.835 $\pm$ 0.082 χ^2 /NDF: 884400.7/18
 Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47
 Right: 416.643 $\pm$ 0.059 χ^2 /NDF: 1157461.5/36
 In: 385.182 $\pm$ 0.050 χ^2 /NDF: 985764.6/40
 Out: 383.189 $\pm$ 0.049 χ^2 /NDF: 1745893.7/43
 All: 384.162 $\pm$ 0.035 χ^2 /NDF: 2732467.9/84

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -519.874 $\pm$ 119.225 χ^2 /NDF: 11.8/17

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 920.250 $\pm$ 117.853 χ^2 /NDF: 62.7/18

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

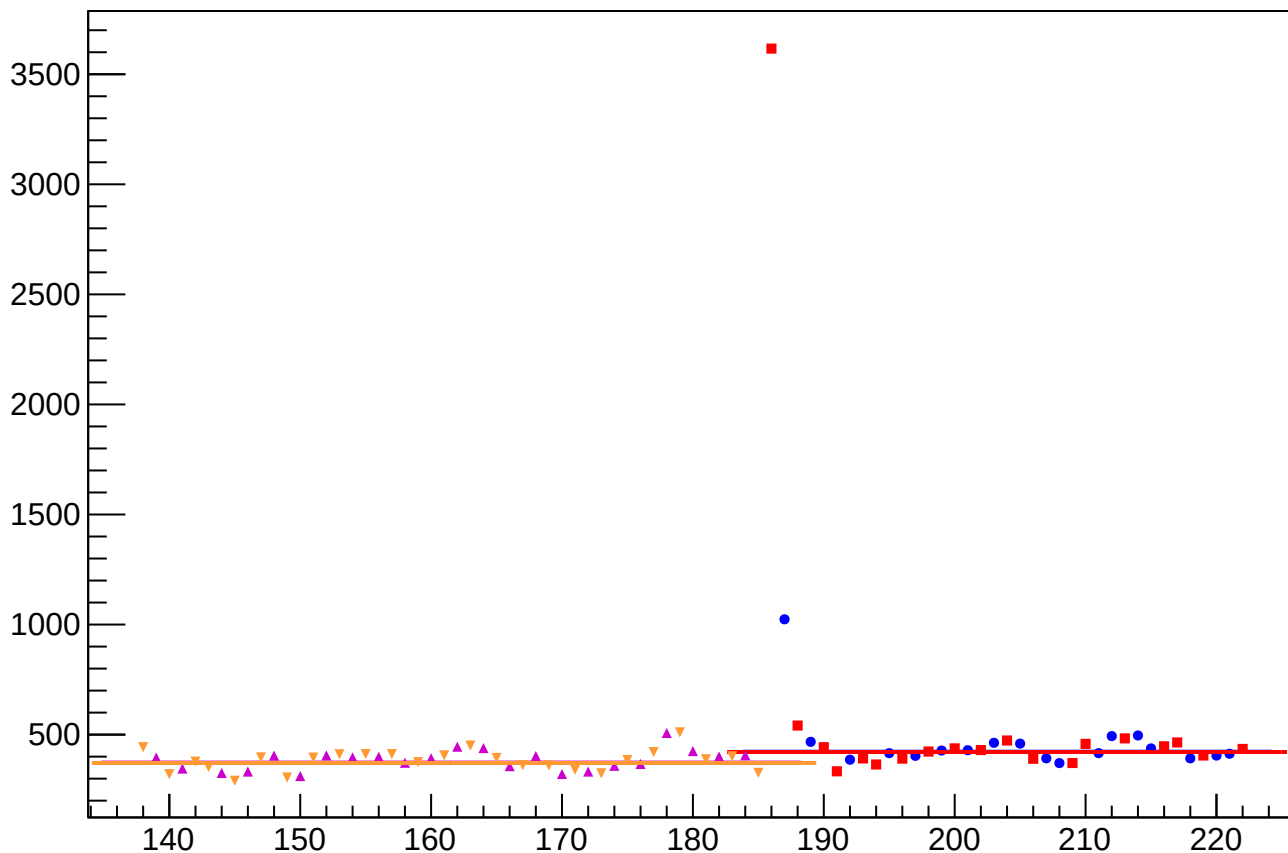
Right: 208.523 $\pm$ 83.816 χ^2 /NDF: 148.3/36

In: -118.692 $\pm$ 71.874 χ^2 /NDF:58.8/40

Out: 108.453 $\pm$ 70.228 χ^2 /NDF:164.5/43

All: -2.489 $\pm$ 50.231 χ^2 /NDF: 228.4/84

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 422.295 $\pm$ 0.084 χ^2 /NDF: 265355.0/17

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 421.015 $\pm$ 0.083 χ^2 /NDF: 866831.9/18

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

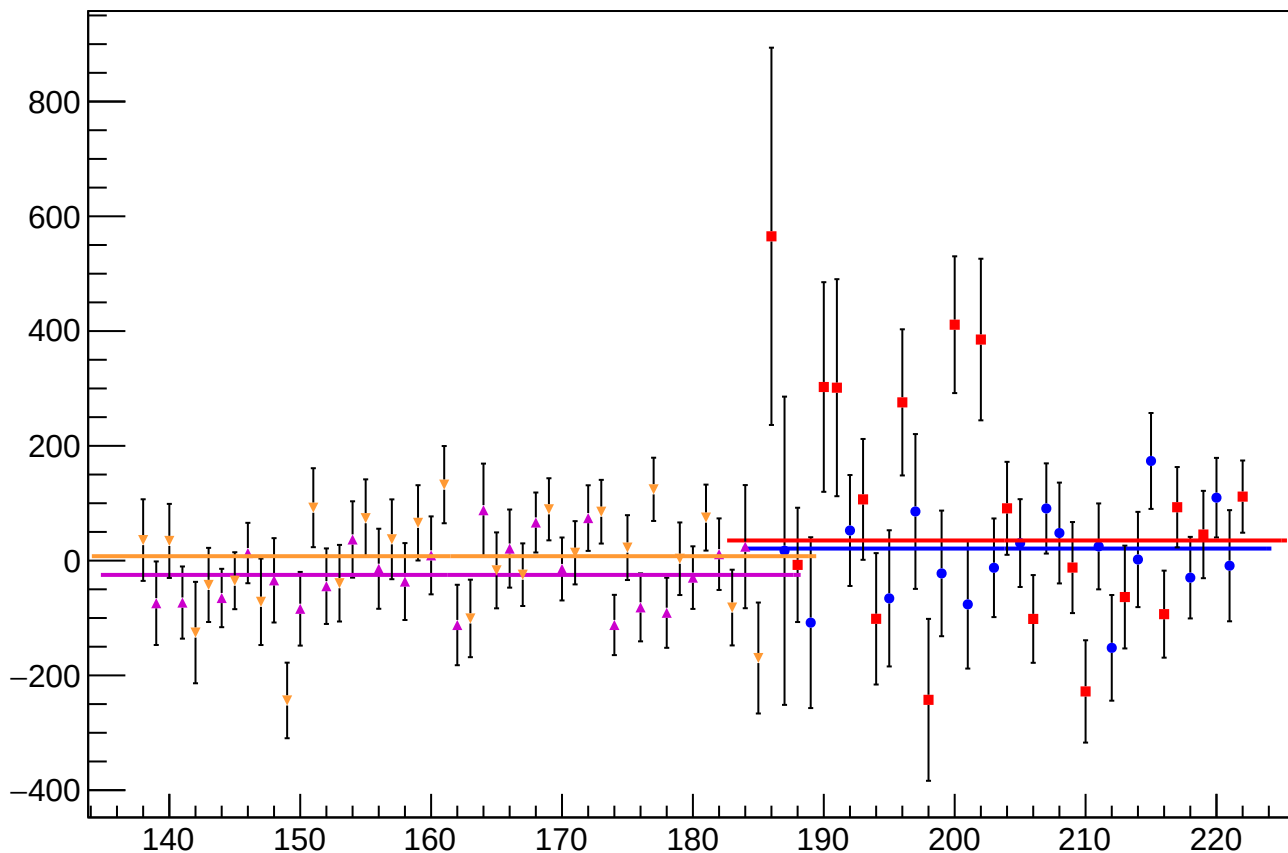
Right: 421.648 $\pm$ 0.059 χ^2 /NDF: 1132303.3/36

In: 390.875 $\pm$ 0.051 χ^2 /NDF: 950891.2/40

Out: 388.989 $\pm$ 0.050 χ^2 /NDF: 1699910.8/43

All: 389.910 $\pm$ 0.036 χ^2 /NDF: 2651506.2/84

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 21.009+/-21.564 χ^2/NDF : 12.7/17

Left Out: 7.723+/-12.656 χ^2/NDF : 45.4/24

Right Out: 35.114+/-21.804 χ^2/NDF : 51.4/18

Left In: -24.887+/-13.029 χ^2/NDF : 19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

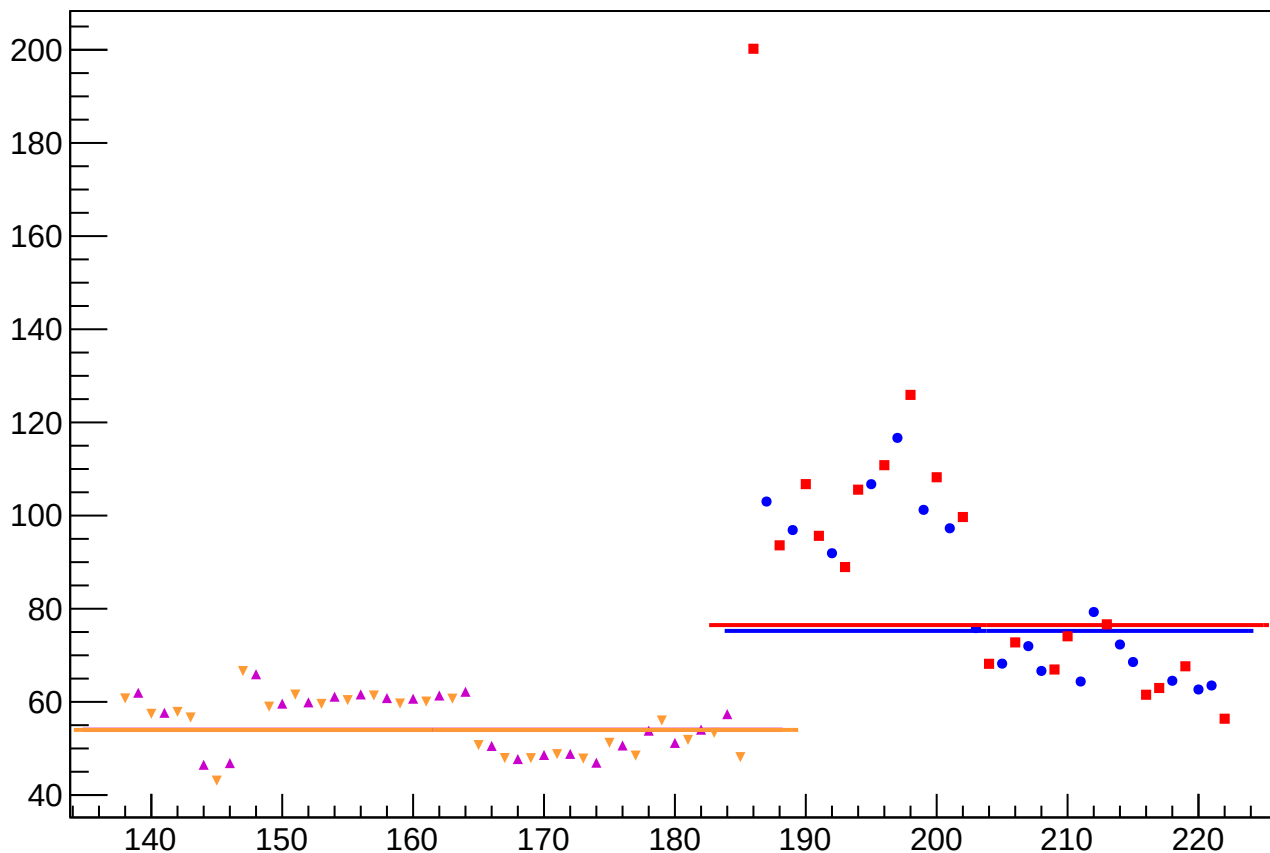
Right: 27.984+/-15.332 χ^2/NDF : 64.3/36

In: -12.614+/-11.151 χ^2/NDF : 35.8/40

Out: 14.626+/-10.946 χ^2/NDF : 98.0/43

All: 1.260+/-7.811 χ^2/NDF : 136.8/84

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 75.241 $\pm$ 0.015 χ^2 /NDF: 884667.6/17

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 76.489 $\pm$ 0.015 χ^2 /NDF: 1601535.8/18

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

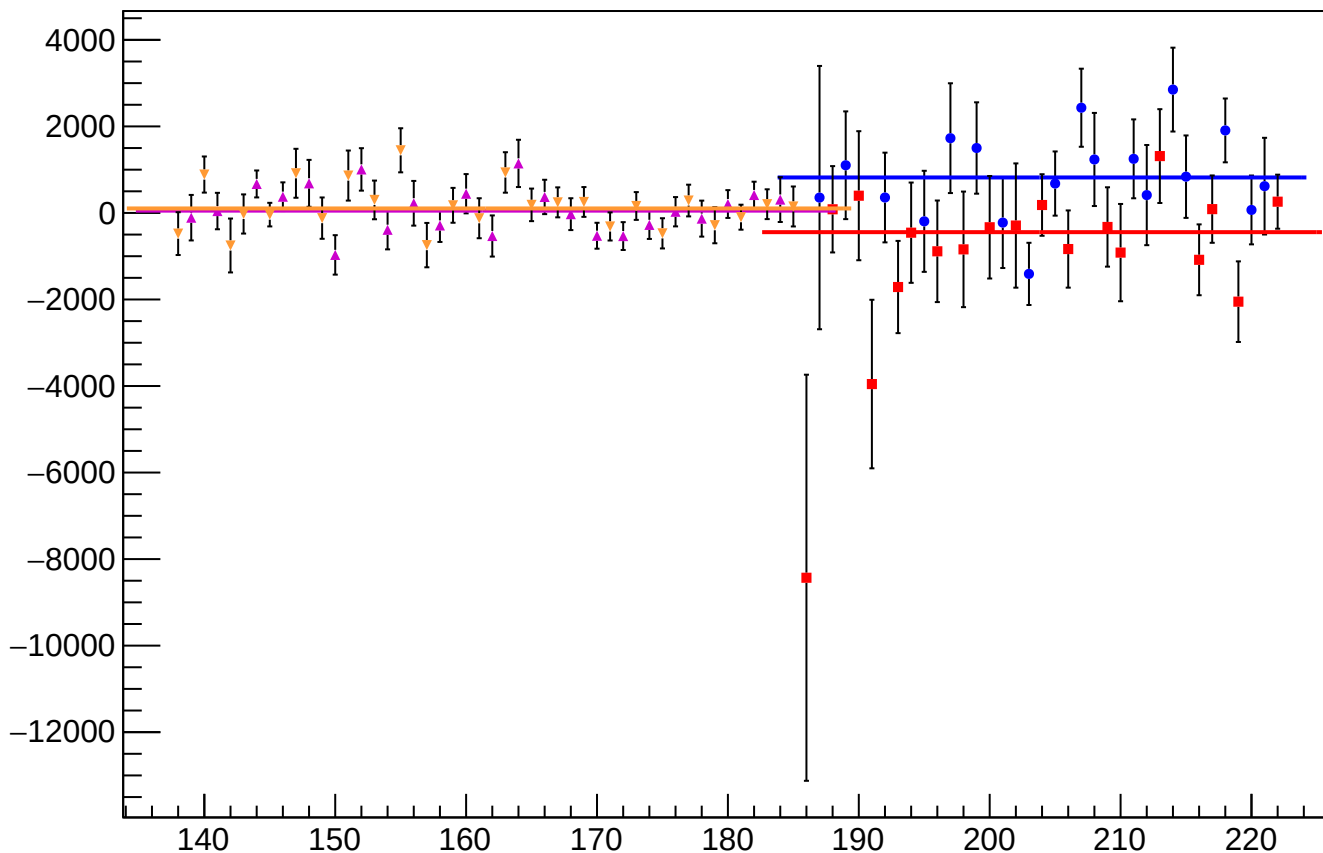
Right: 75.858 $\pm$ 0.011 χ^2 /NDF: 2489512.5/36

In: 59.701 $\pm$ 0.008 χ^2 /NDF: 2746349.6/40

Out: 59.655 $\pm$ 0.008 χ^2 /NDF: 3654209.3/43

All: 59.677 $\pm$ 0.006 χ^2 /NDF: 6400576.0/84

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 820.077 $\pm$ 229.278 χ^2 /NDF: 23.8/17

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -443.974 $\pm$ 230.670 χ^2 /NDF: 17.5/18

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

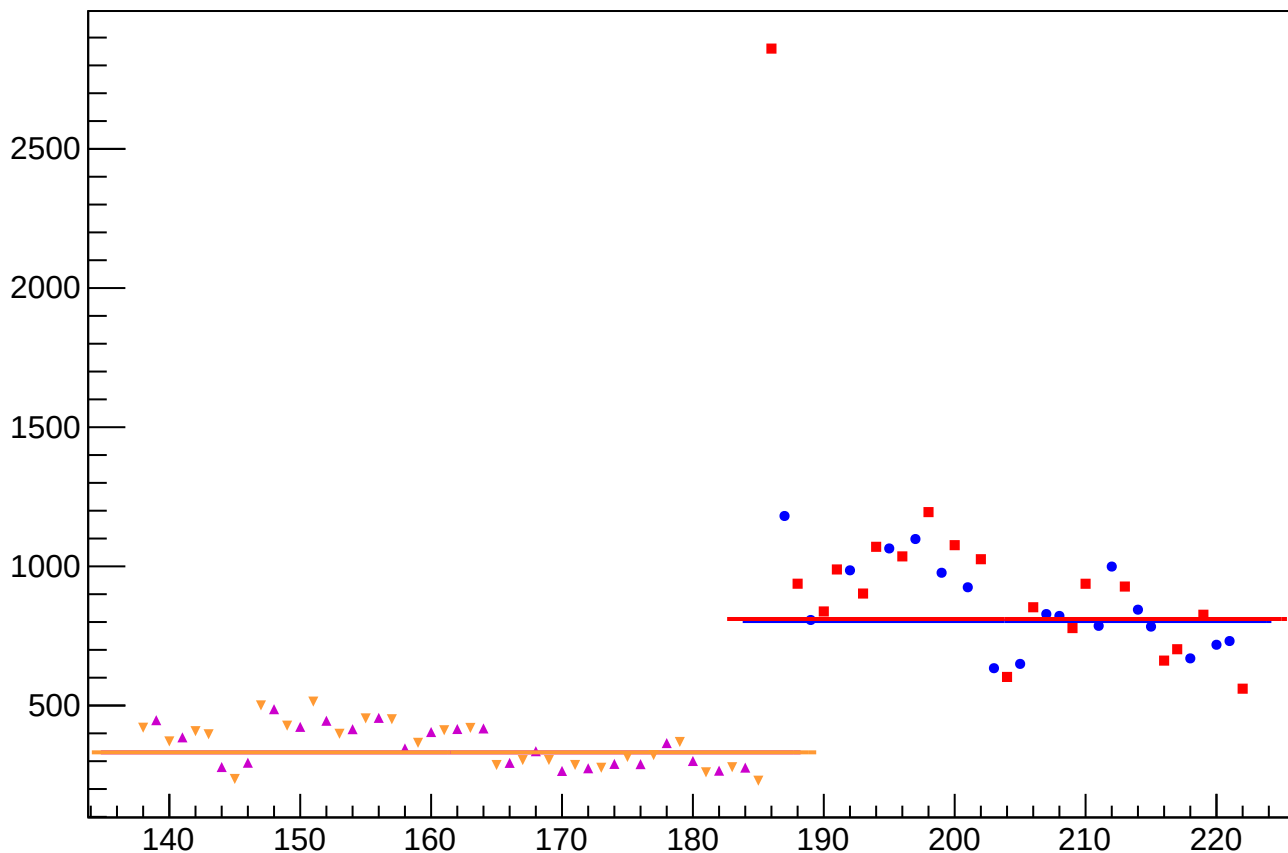
Right: 191.876 $\pm$ 162.614 χ^2 /NDF: 56.4/36

In: 138.929 $\pm$ 76.543 χ^2 /NDF:67.8/40

Out: 45.817 $\pm$ 75.029 χ^2 /NDF:53.5/43

All: 91.444 $\pm$ 53.581 χ^2 /NDF: 122.1/84

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 803.537+/-0.162 χ^2/NDF : 740092.6/17

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 810.920+/-0.163 χ^2/NDF : 1584382.9/18

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

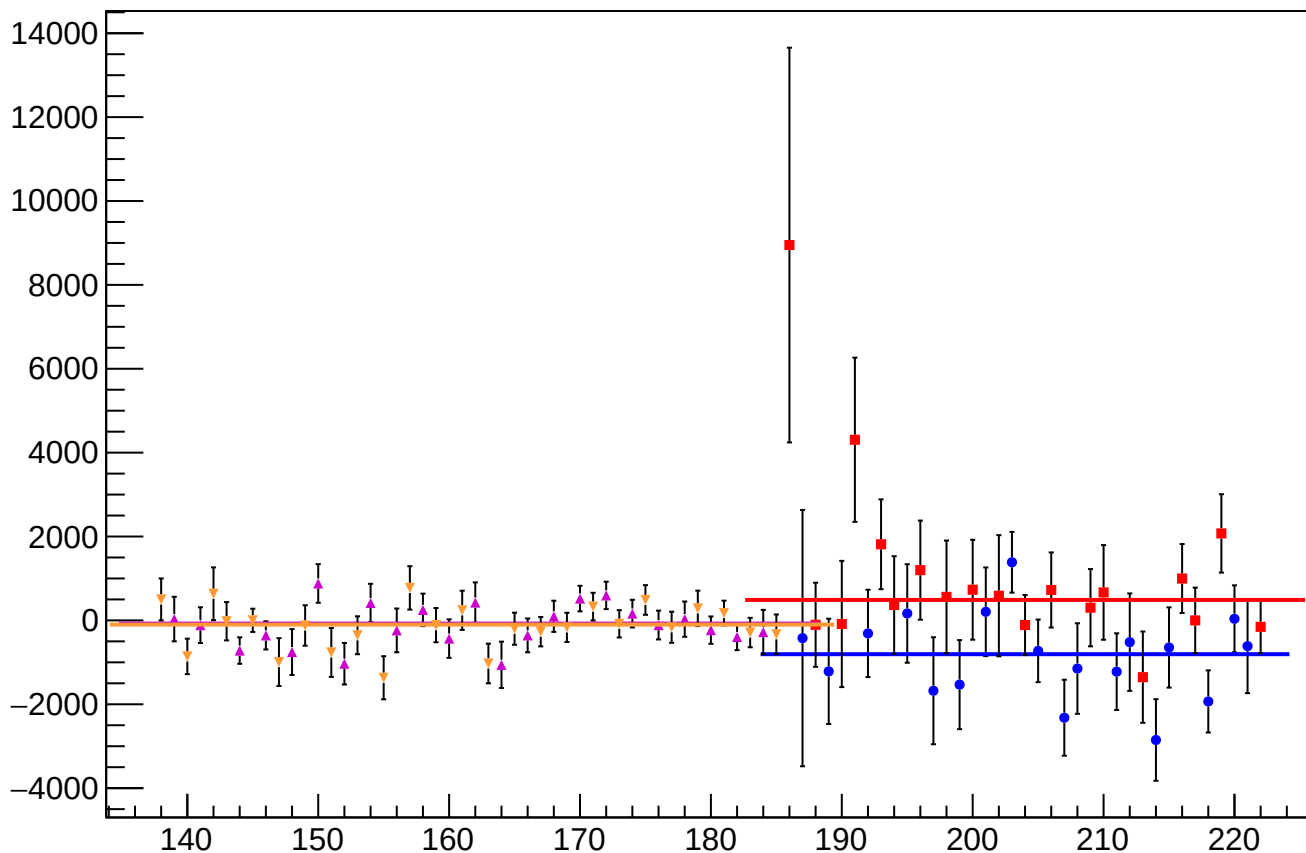
Right: 807.206+/-0.115 χ^2/NDF : 2325506.3/36

In: 384.256+/-0.054 χ^2/NDF : 9570490.5/40

Out: 382.464+/-0.053 χ^2/NDF : 11012716.0/43

All: 383.342+/-0.038 χ^2/NDF : 20583765.3/84

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -805.678+/-230.433 χ^2/NDF : 23.1/17

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 488.477+/-231.817 χ^2/NDF : 17.9/18

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

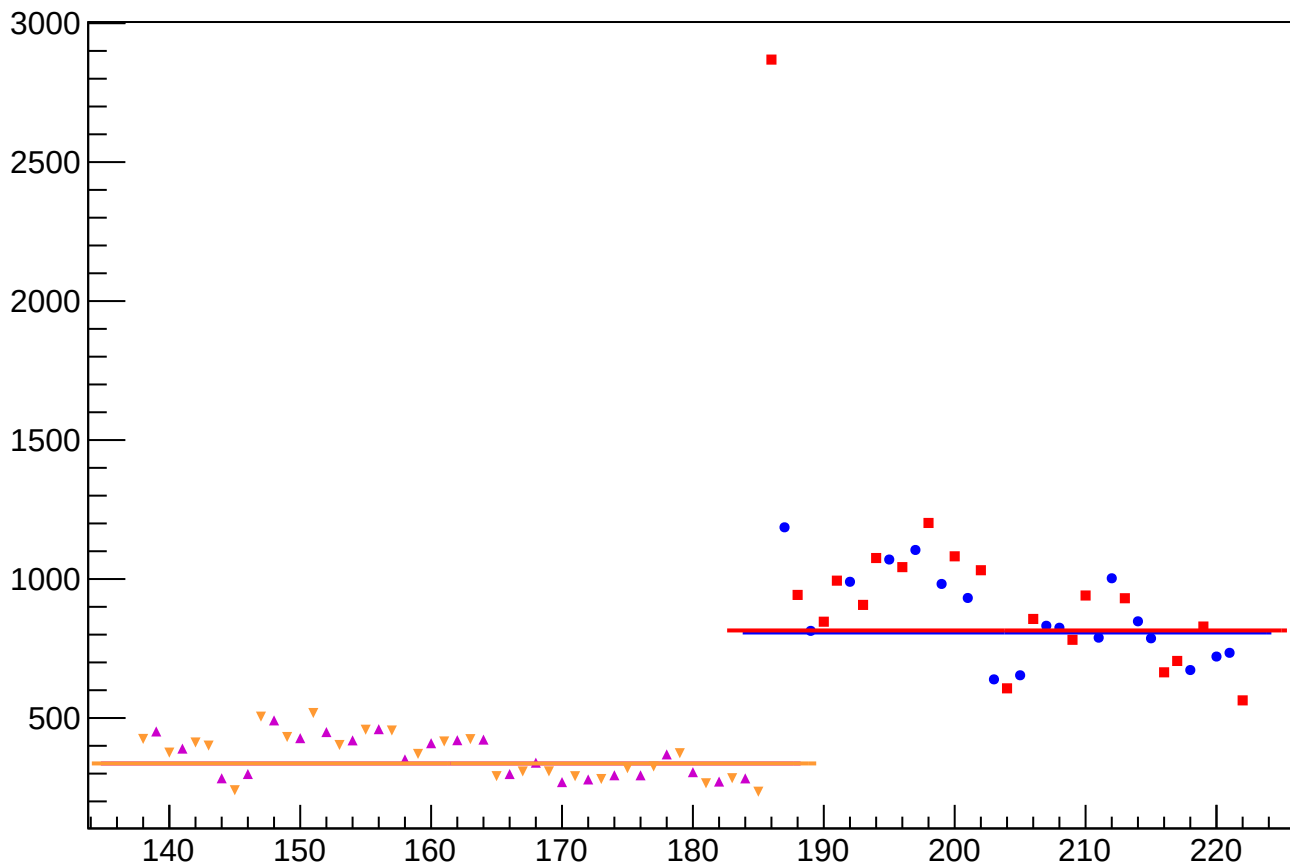
Right: -162.477+/-163.428 χ^2/NDF : 56.7/36

In: -158.207+/-77.521 χ^2/NDF :64.1/40

Out: -36.583+/-75.985 χ^2/NDF :54.3/43

All: -96.178+/-54.264 χ^2/NDF : 119.7/84

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 807.658 $\pm$ 0.163 χ^2 /NDF: 737555.6/17

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 815.016 $\pm$ 0.164 χ^2 /NDF: 1582895.7/18

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF: 1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

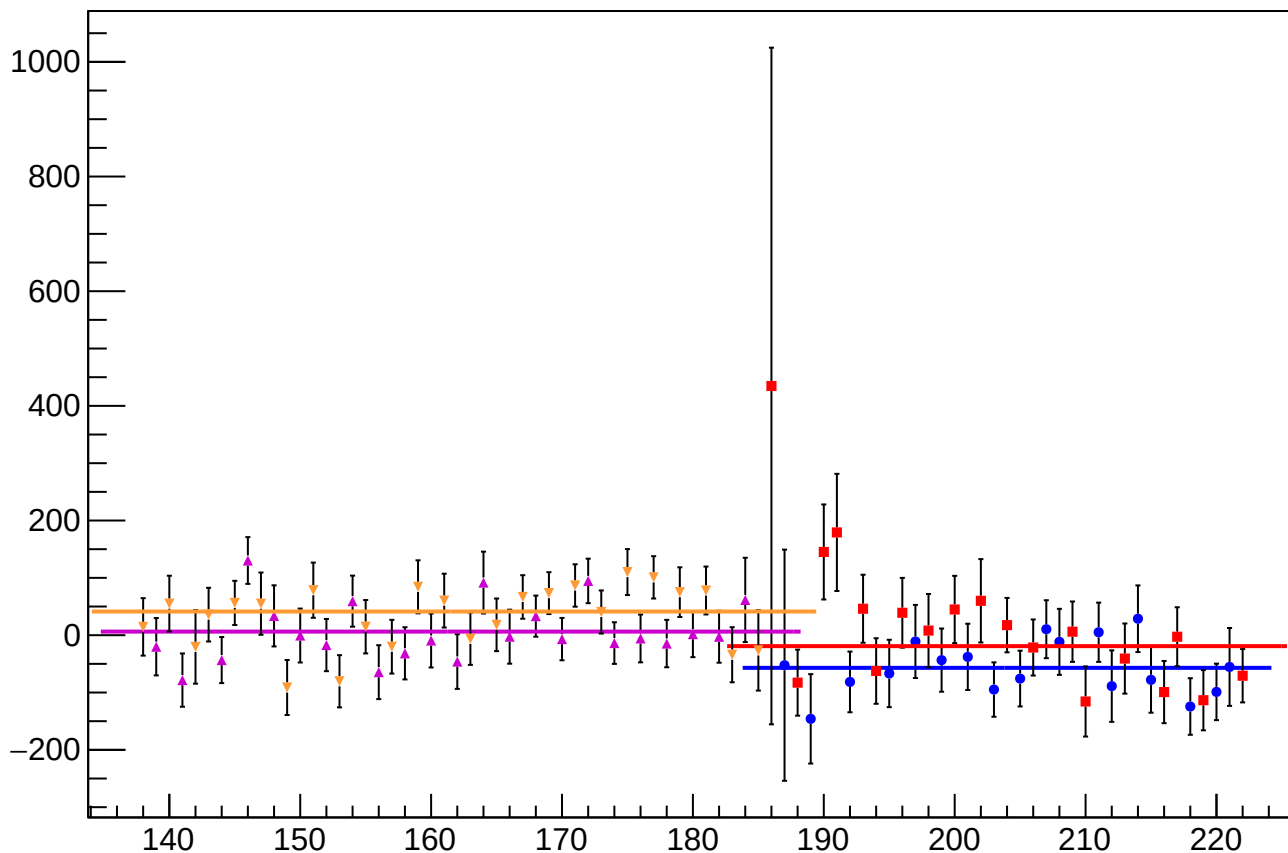
Right: 811.315 $\pm$ 0.116 χ^2 /NDF: 2321464.7/36

In: 389.769 $\pm$ 0.055 χ^2 /NDF: 9423567.8/40

Out: 387.962 $\pm$ 0.054 χ^2 /NDF: 10853218.2/43

All: 388.848 $\pm$ 0.038 χ^2 /NDF: 20277340.1/84

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.947 ± 13.430 $\chi^2/\text{NDF}: 12.0/17$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -19.116 ± 13.571 $\chi^2/\text{NDF}: 24.9/18$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

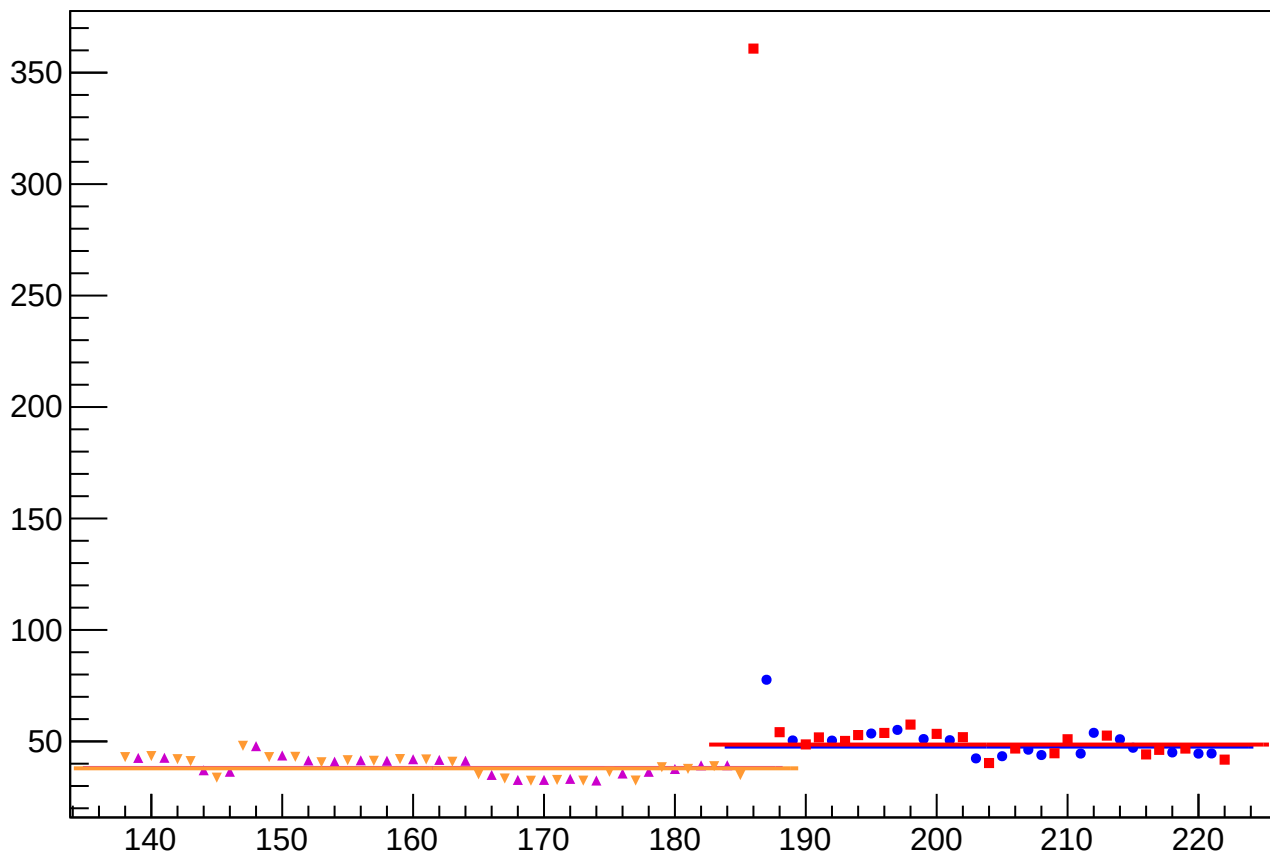
Right: -38.228 ± 9.546 $\chi^2/\text{NDF}: 40.9/36$

In: -13.856 ± 7.576 $\chi^2/\text{NDF}: 57.4/40$

Out: 23.149 ± 7.436 $\chi^2/\text{NDF}: 73.2/43$

All: 4.991 ± 5.307 $\chi^2/\text{NDF}: 142.7/84$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 47.671+/-0.009 χ^2/NDF : 214527.7/17

Left Out: 37.925+/-0.006 χ^2/NDF : 487085.3/24

Right Out: 48.580+/-0.010 χ^2/NDF : 812783.7/18

Left In: 38.087+/-0.006 χ^2/NDF : 396334.5/22

Left: 38.004+/-0.005 χ^2/NDF : 883742.3/47

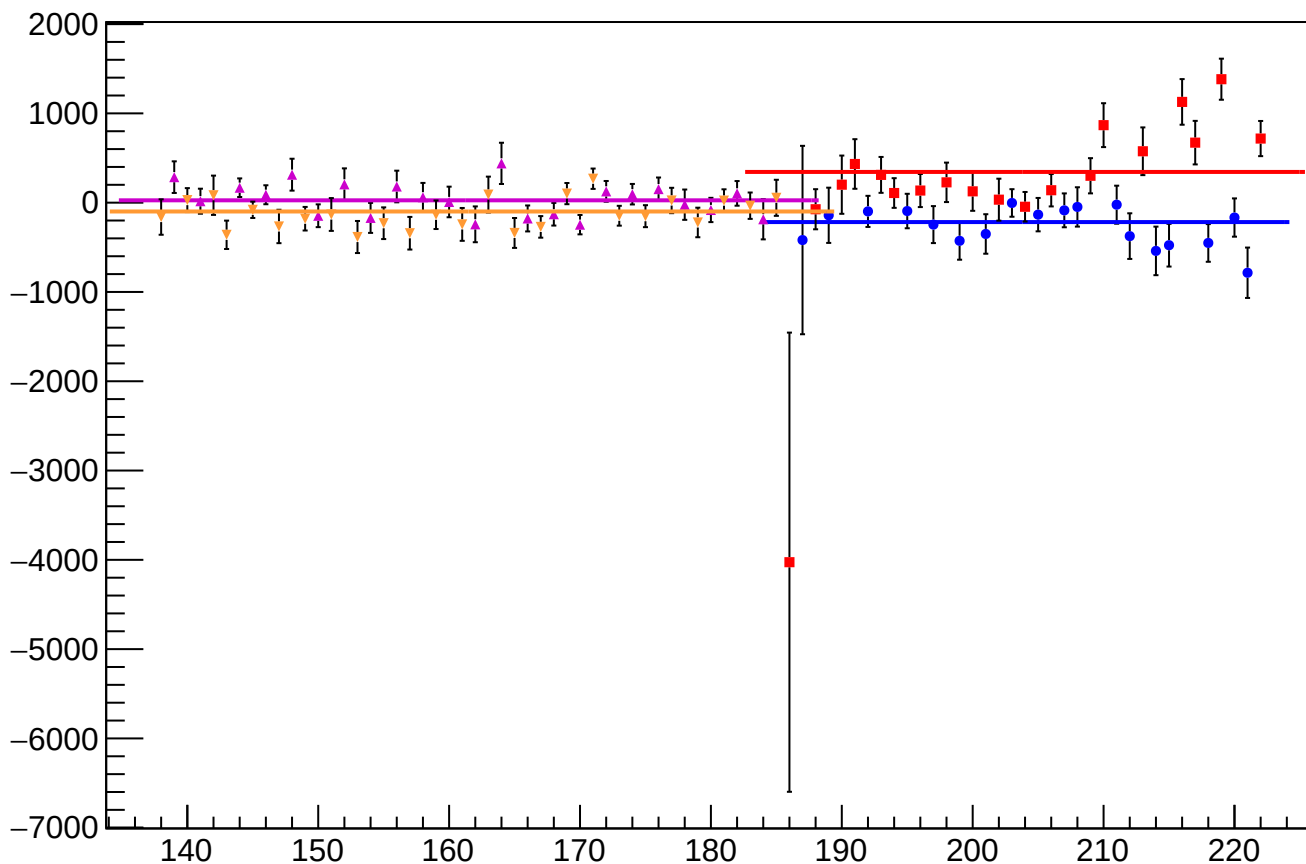
Right: 48.121+/-0.007 χ^2/NDF : 1031850.6/36

In: 41.137+/-0.005 χ^2/NDF : 1305171.2/40

Out: 41.124+/-0.005 χ^2/NDF : 2162602.1/43

All: 41.130+/-0.004 χ^2/NDF : 3467776.0/84

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -217.357 ± 51.205 χ^2/NDF : 14.7/17

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 344.093 ± 50.500 χ^2/NDF : 60.4/18

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

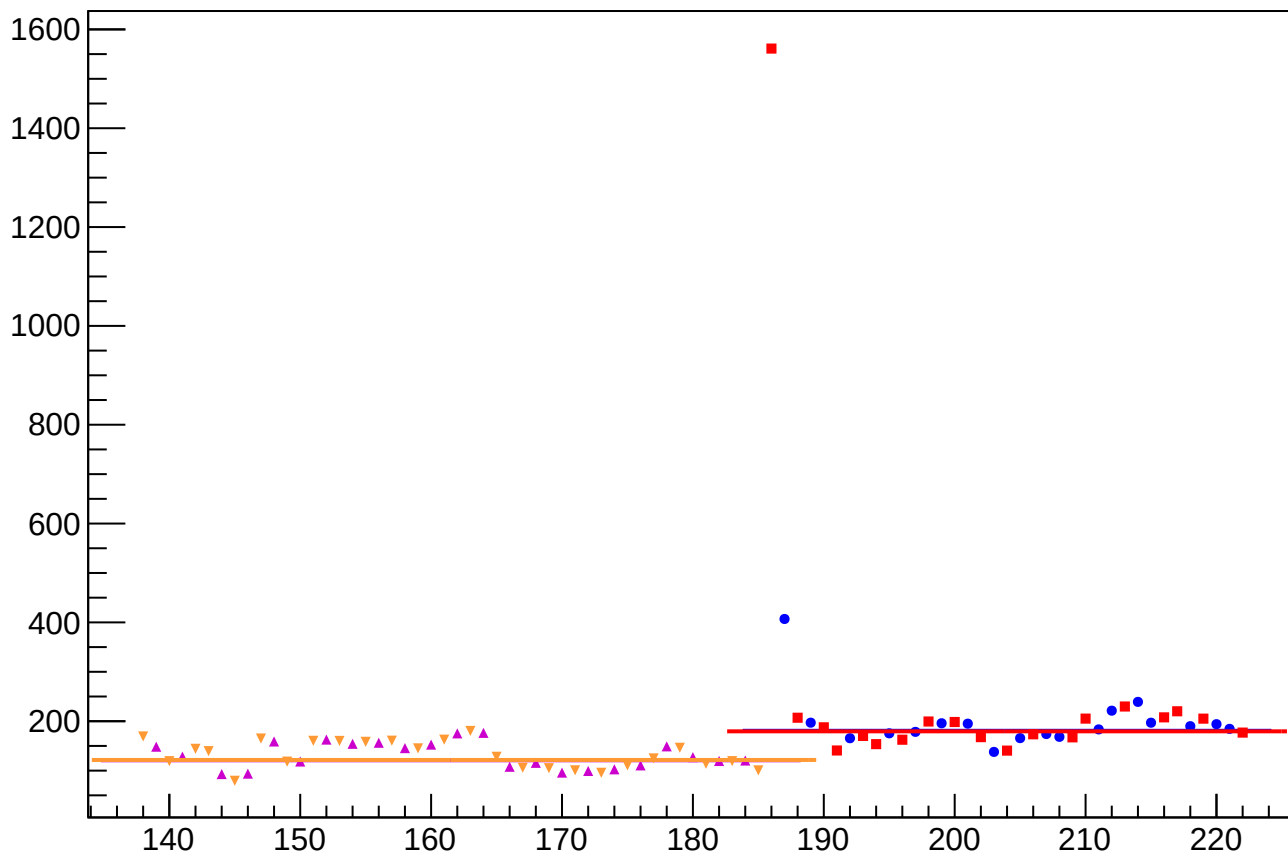
Right: 67.257 ± 35.956 χ^2/NDF : 136.0/36

In: -35.020 ± 25.675 χ^2/NDF : 62.3/40

Out: 11.619 ± 25.210 χ^2/NDF : 150.8/43

All: -11.274 ± 17.989 χ^2/NDF : 214.8/84

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 180.598 $\pm$ 0.036 χ^2 /NDF: 472727.9/17

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 179.540 $\pm$ 0.036 χ^2 /NDF: 1072345.7/18

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

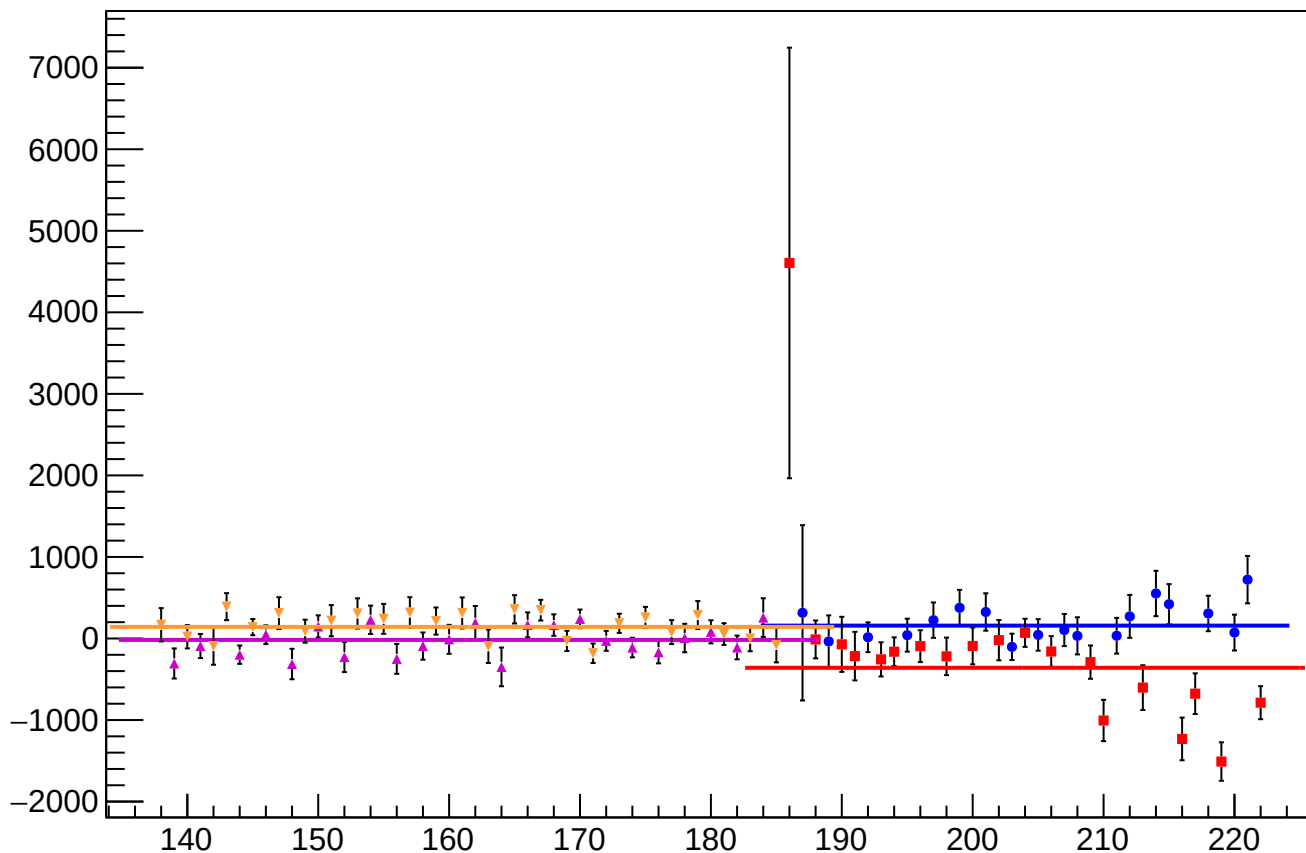
Right: 180.062 $\pm$ 0.025 χ^2 /NDF: 1545506.5/36

In: 135.930 $\pm$ 0.018 χ^2 /NDF:3888772.2/40

Out: 136.034 $\pm$ 0.018 χ^2 /NDF:4760924.4/43

All: 135.983 $\pm$ 0.013 χ^2 /NDF: 8649713.2/84

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 157.822 ± 53.090 $\chi^2/\text{NDF}: 14.3/17$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -359.485 ± 52.512 $\chi^2/\text{NDF}: 69.4/18$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

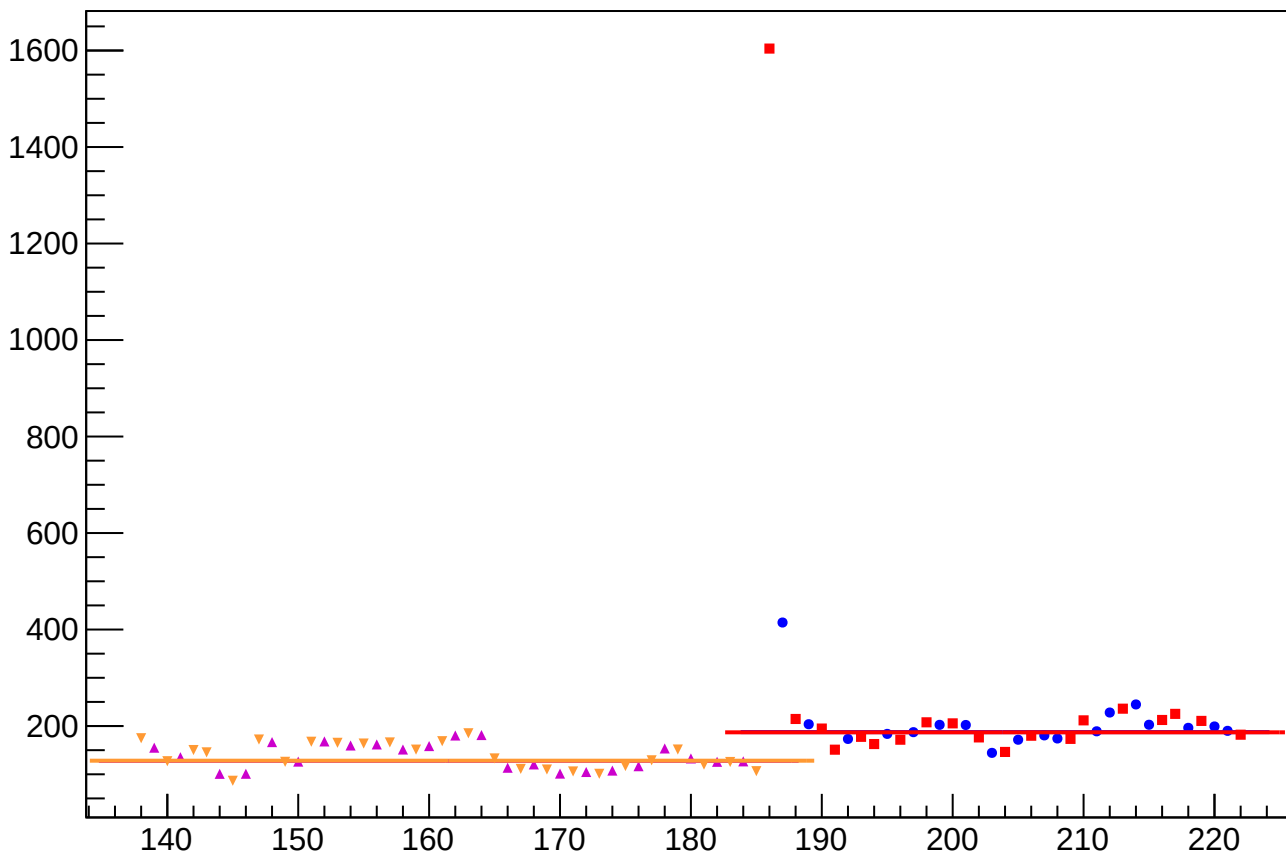
Right: -103.661 ± 37.334 $\chi^2/\text{NDF}: 131.8/36$

In: 27.392 ± 26.904 $\chi^2/\text{NDF}: 52.6/40$

Out: 15.050 ± 26.422 $\chi^2/\text{NDF}: 164.4/43$

All: 21.109 ± 18.851 $\chi^2/\text{NDF}: 217.1/84$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 187.444 $\pm$ 0.038 χ^2 /NDF: 438811.2/17

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 186.979 $\pm$ 0.037 χ^2 /NDF: 1015896.4/18

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

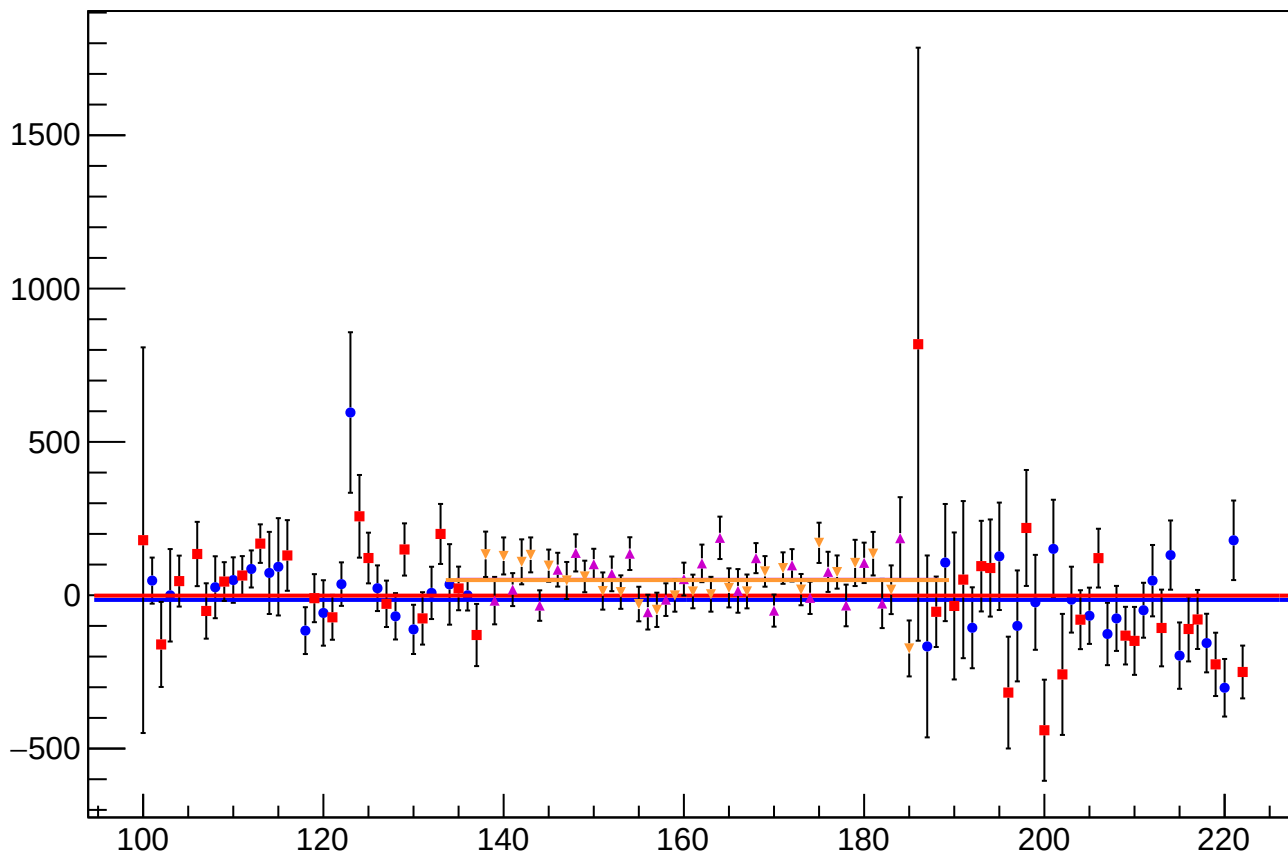
Right: 187.209 $\pm$ 0.026 χ^2 /NDF: 1454785.3/36

In: 142.927 $\pm$ 0.019 χ^2 /NDF:3566696.7/40

Out: 143.062 $\pm$ 0.019 χ^2 /NDF:4421820.0/43

All: 142.996 $\pm$ 0.013 χ^2 /NDF: 7988542.5/84

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -15.263 ± 16.373 $\chi^2/\text{NDF}: 39.3/34$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1.253 ± 16.098 $\chi^2/\text{NDF}: 67.0/37$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

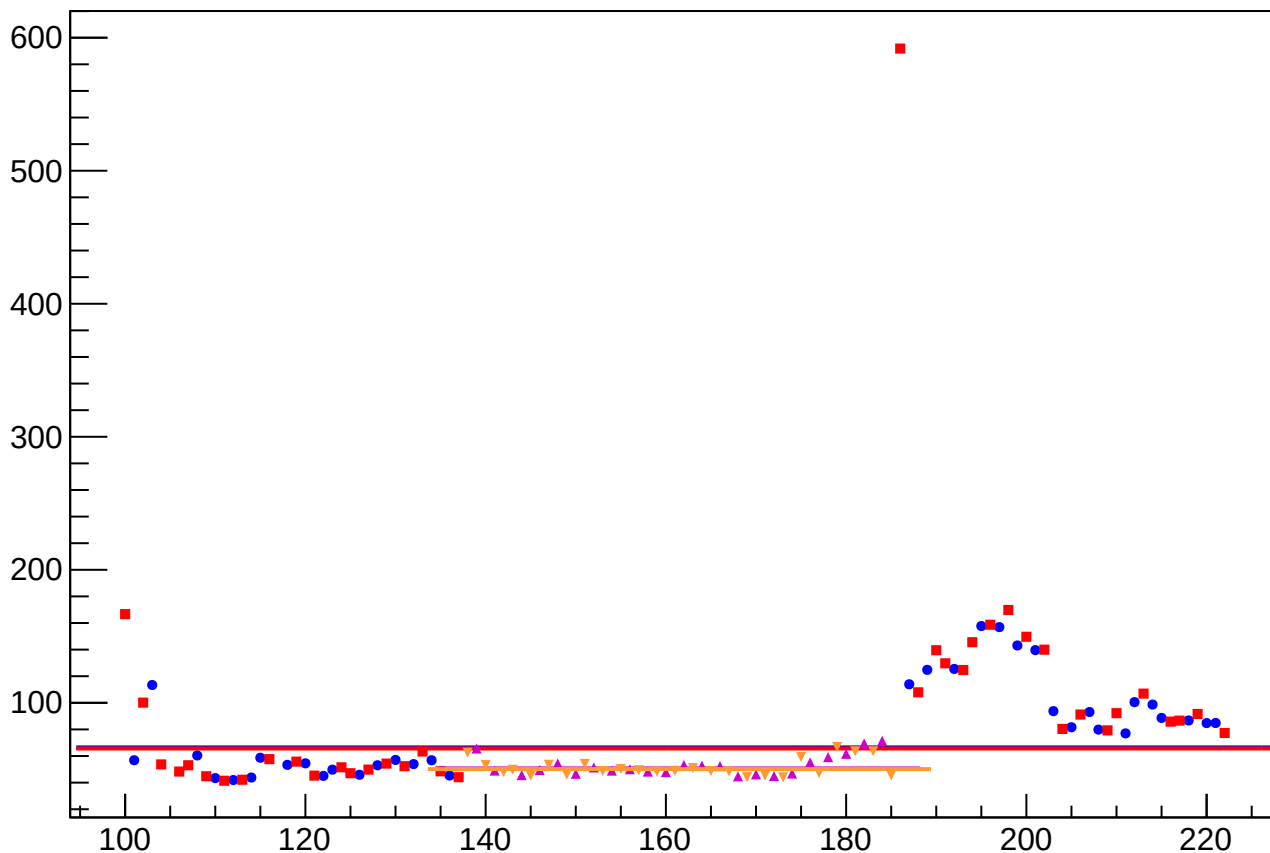
Right: -8.140 ± 11.479 $\chi^2/\text{NDF}: 106.7/72$

In: 26.782 ± 9.810 $\chi^2/\text{NDF}: 81.8/57$

Out: 31.686 ± 9.520 $\chi^2/\text{NDF}: 101.6/62$

All: 29.308 ± 6.832 $\chi^2/\text{NDF}: 183.5/120$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 66.476+/-0.012 χ^2/NDF : 5342286.5/34

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 65.664+/-0.011 χ^2/NDF : 6632043.7/37

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

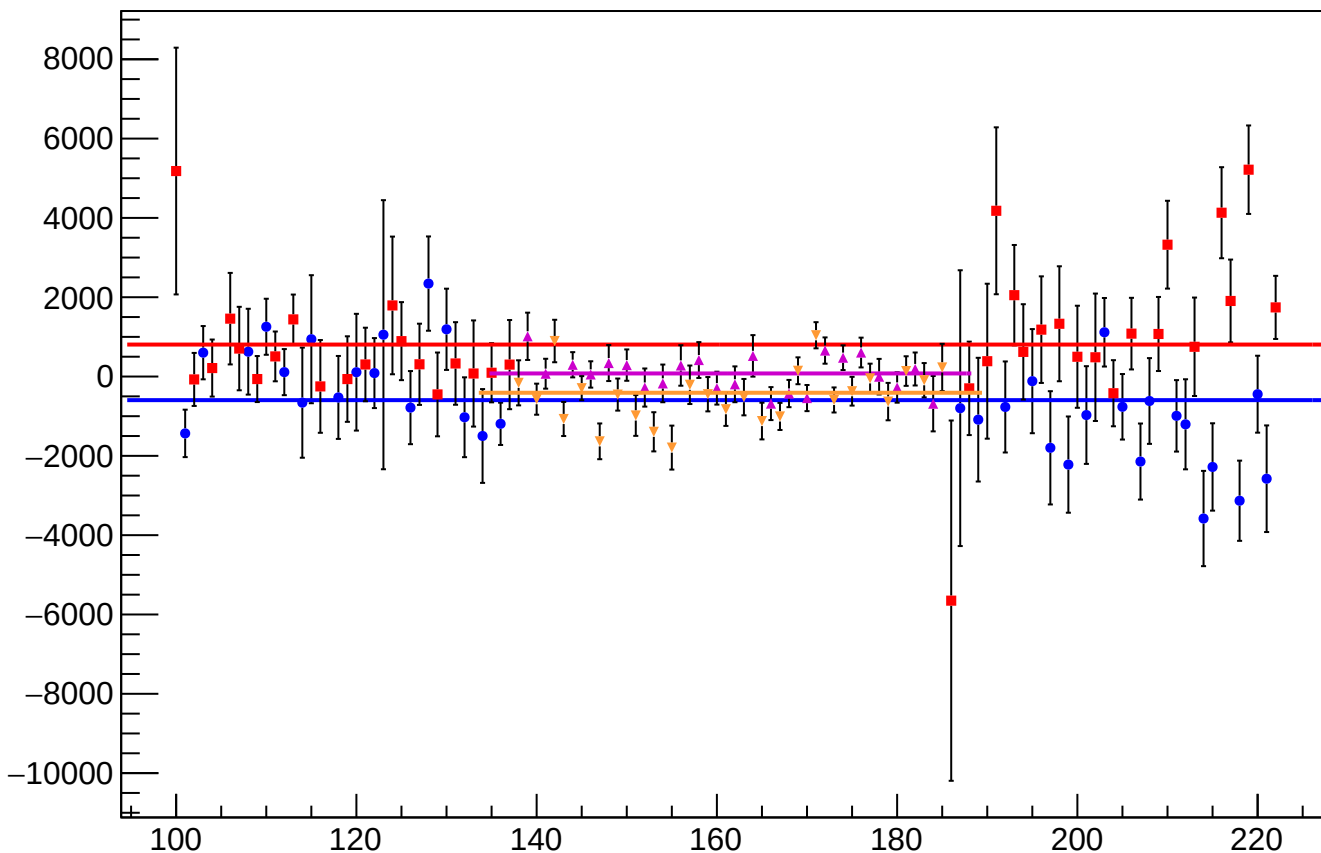
Right: 66.063+/-0.008 χ^2/NDF : 11976829.3/72

In: 56.353+/-0.007 χ^2/NDF : 7004318.0/57

Out: 55.601+/-0.007 χ^2/NDF : 8301552.8/62

All: 55.966+/-0.005 χ^2/NDF : 15311914.7/120

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -595.218 ± 164.268 $\chi^2/\text{NDF}: 54.9/34$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 806.232 ± 162.330 $\chi^2/\text{NDF}: 54.4/37$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

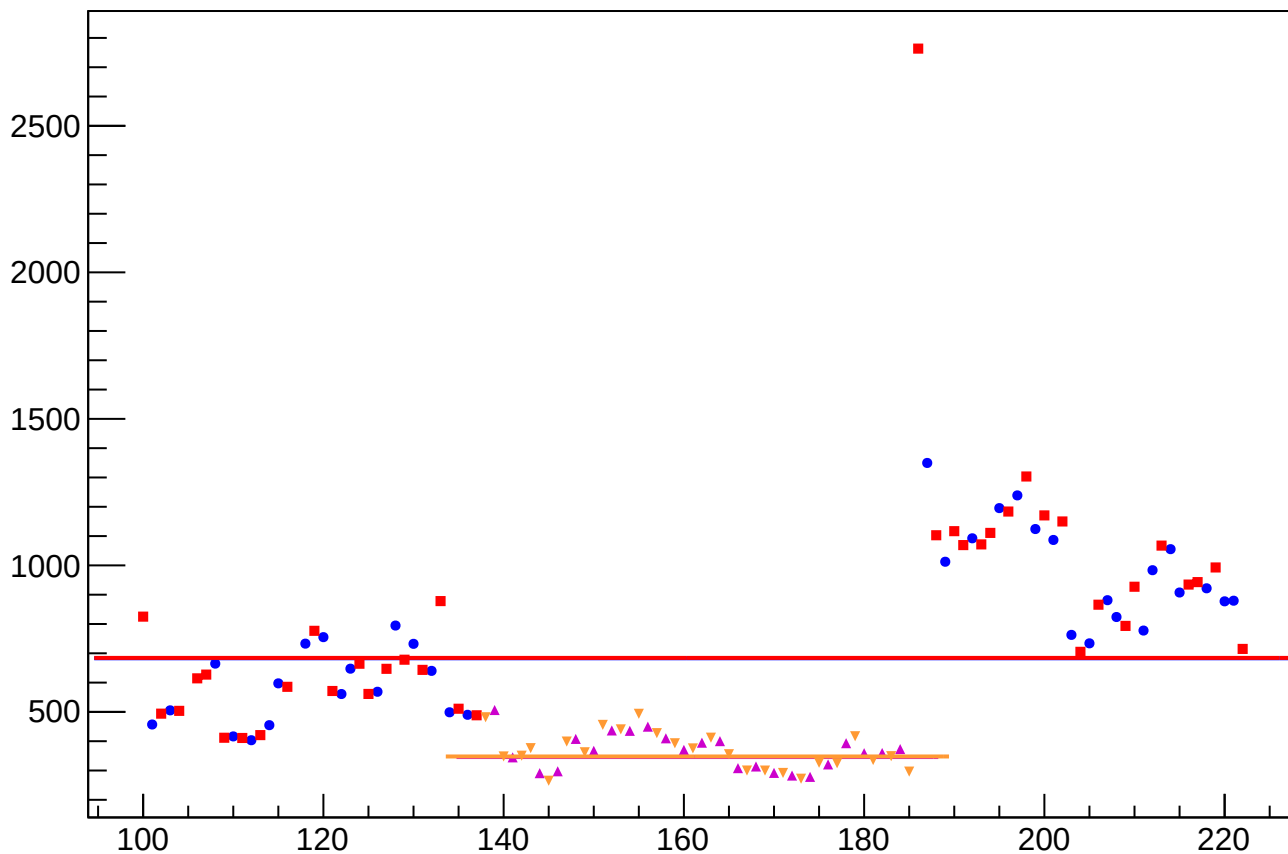
Right: 113.821 ± 115.464 $\chi^2/\text{NDF}: 146.1/72$

In: -61.841 ± 74.840 $\chi^2/\text{NDF}: 93.0/57$

Out: -160.407 ± 73.439 $\chi^2/\text{NDF}: 160.7/62$

All: -112.055 ± 52.418 $\chi^2/\text{NDF}: 254.6/120$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 683.022+/-0.116 χ^2/NDF : 3968094.5/34

Left Out: 347.875+/-0.058 χ^2/NDF :1044096.7/24

Right Out: 684.292+/-0.115 χ^2/NDF : 4925963.3/37

Left In: 345.954+/-0.059 χ^2/NDF :900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

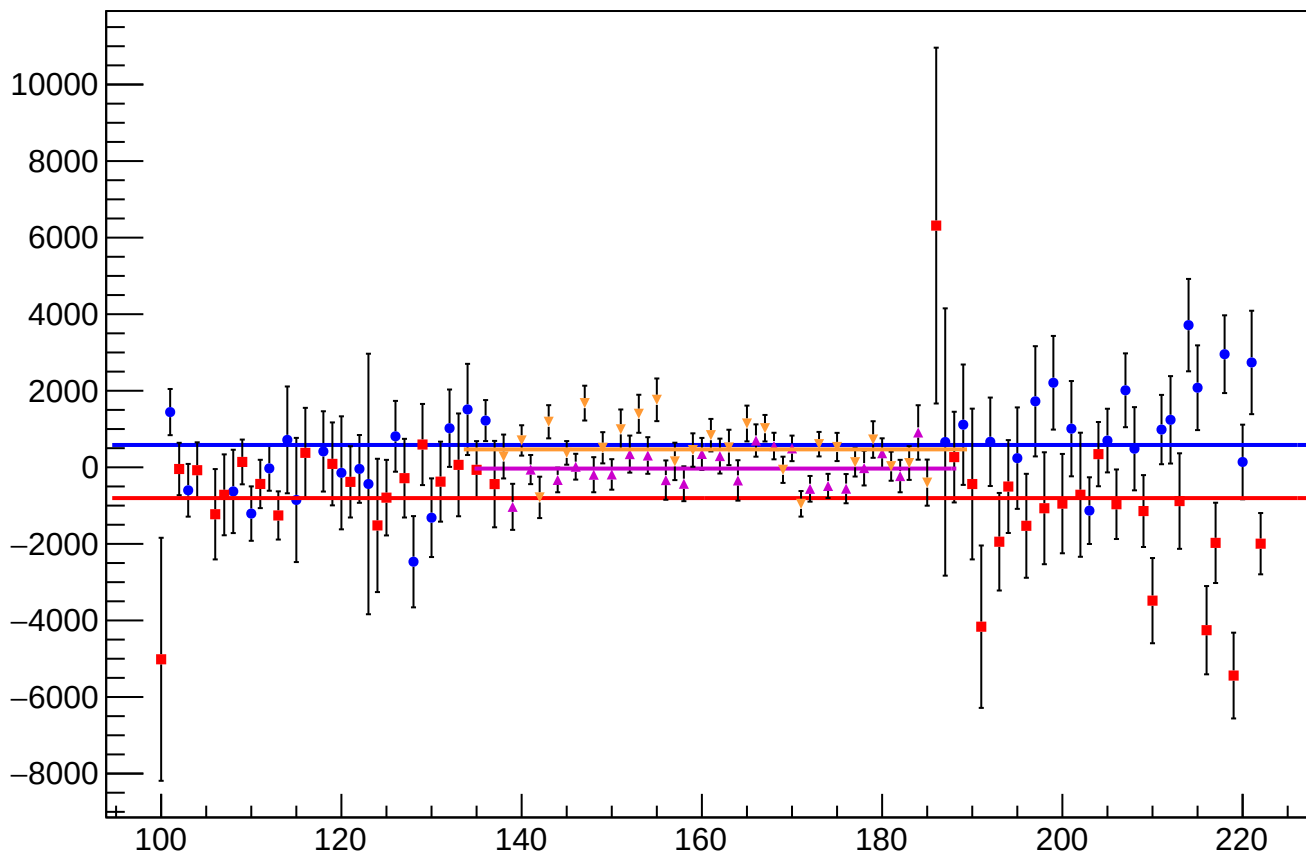
Right: 683.665+/-0.082 χ^2/NDF : 8894118.3/72

In: 415.919+/-0.053 χ^2/NDF :11541967.6/57

Out: 416.730+/-0.052 χ^2/NDF :12801841.5/62

All: 416.332+/-0.037 χ^2/NDF : 24343928.8/12

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 583.975 $\pm$ 165.376 χ^2 /NDF: 53.7/34

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -803.948 $\pm$ -163.506 χ^2 /NDF: 57.6/37

Left In: -32.801 $\pm$ -85.064 χ^2 /NDF:25.7/22

Left: 223.299 $\pm$ -59.514 χ^2 /NDF: 100.9/47

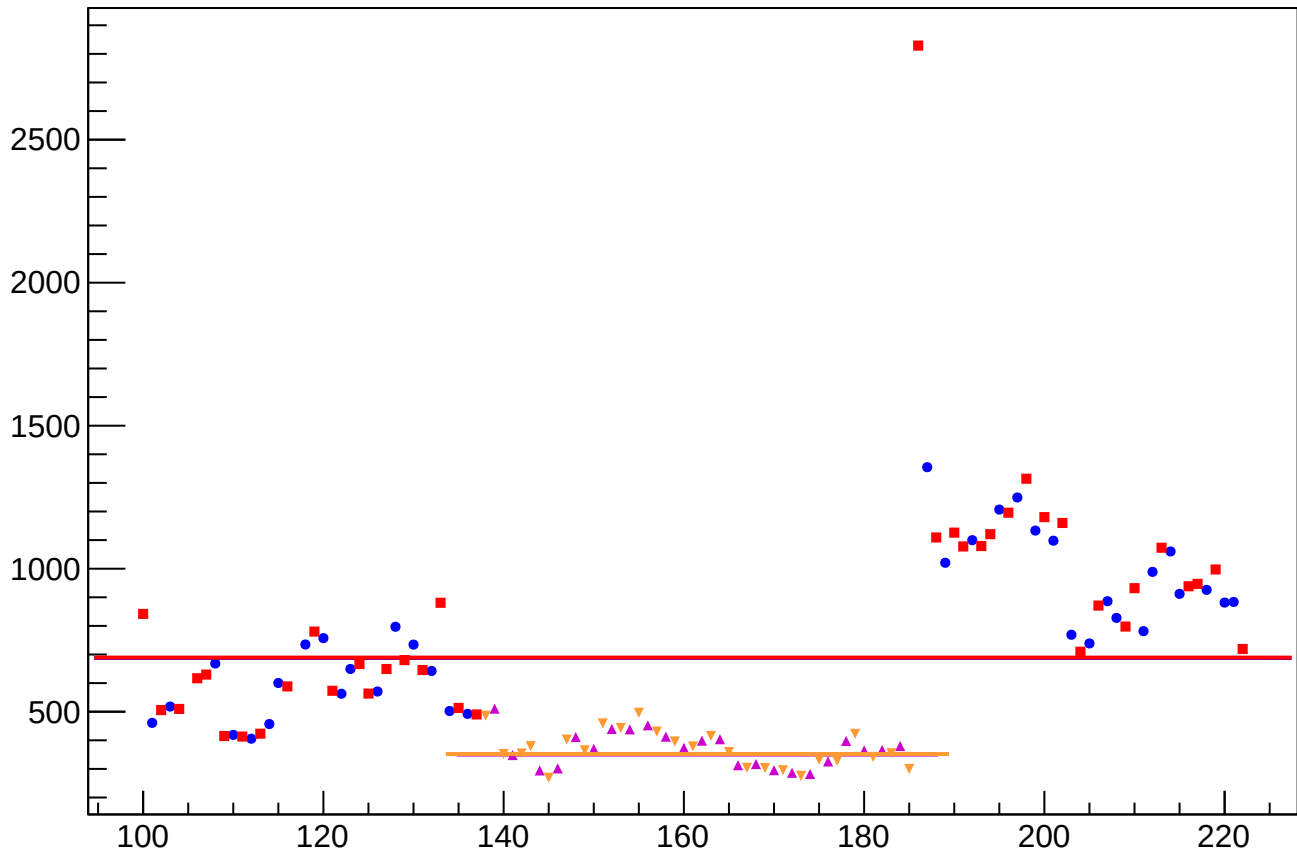
Right: -117.880 $\pm$ -116.272 χ^2 /NDF: 146.9/72

In: 96.239 $\pm$ -75.644 χ^2 /NDF:90.3/57

Out: 206.602 $\pm$ -74.220 χ^2 /NDF:163.2/62

All: 152.469 $\pm$ -52.977 χ^2 /NDF: 254.6/120

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 687.771 $\pm$ 0.117 χ^2 /NDF: 3954726.5/34

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 689.133 $\pm$ 0.116 χ^2 /NDF: 4918547.8/37

Left In: 350.160 $\pm$ 0.060 χ^2 /NDF: 878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2 /NDF: 1896060.8/47

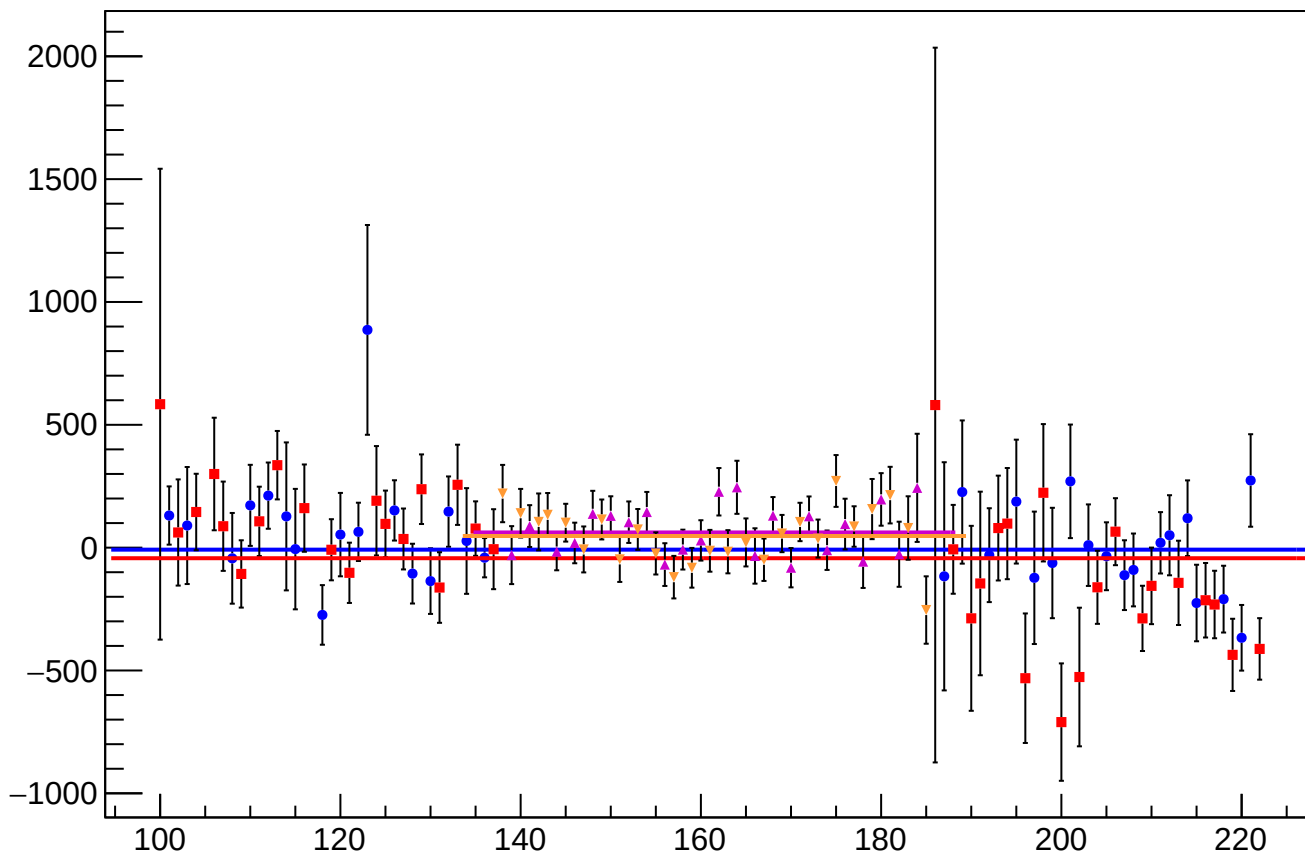
Right: 688.460 $\pm$ 0.082 χ^2 /NDF: 8873342.9/72

In: 420.794 $\pm$ 0.053 χ^2 /NDF: 11424433.2/57

Out: 421.478 $\pm$ 0.052 χ^2 /NDF: 12686037.2/62

All: 421.142 $\pm$ 0.037 χ^2 /NDF: 24110553.6/120

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -8.152 ± 26.238 $\chi^2/\text{NDF}: 38.3/34$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -43.045 ± 26.658 $\chi^2/\text{NDF}: 68.1/37$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

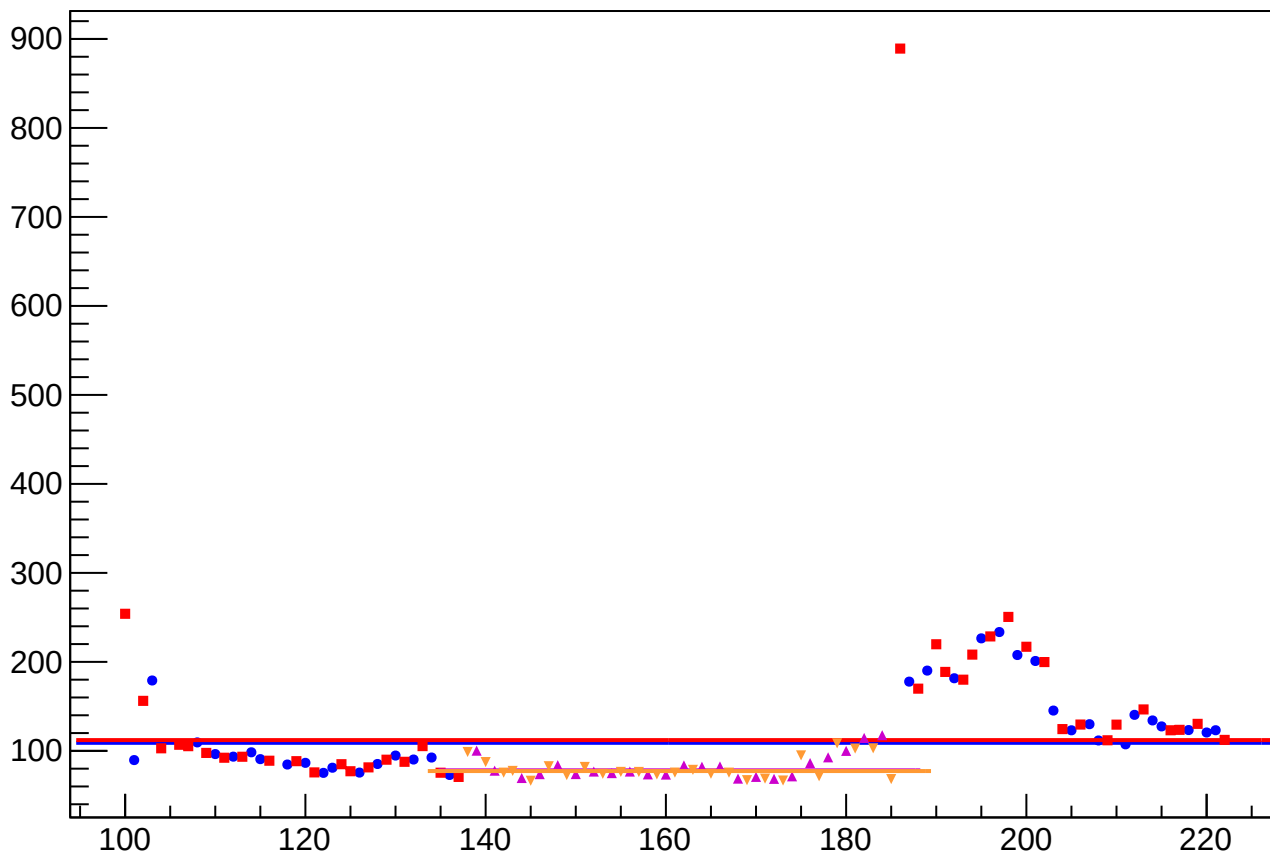
Right: -25.321 ± 18.700 $\chi^2/\text{NDF}: 107.2/72$

In: 37.827 ± 15.366 $\chi^2/\text{NDF}: 66.9/57$

Out: 18.549 ± 15.061 $\chi^2/\text{NDF}: 105.3/62$

All: 27.995 ± 10.756 $\chi^2/\text{NDF}: 173.0/120$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 109.056 $\pm$ 0.019 χ^2 /NDF: 3682896.6/34

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 112.104 $\pm$ 0.019 χ^2 /NDF: 4513131.2/37

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

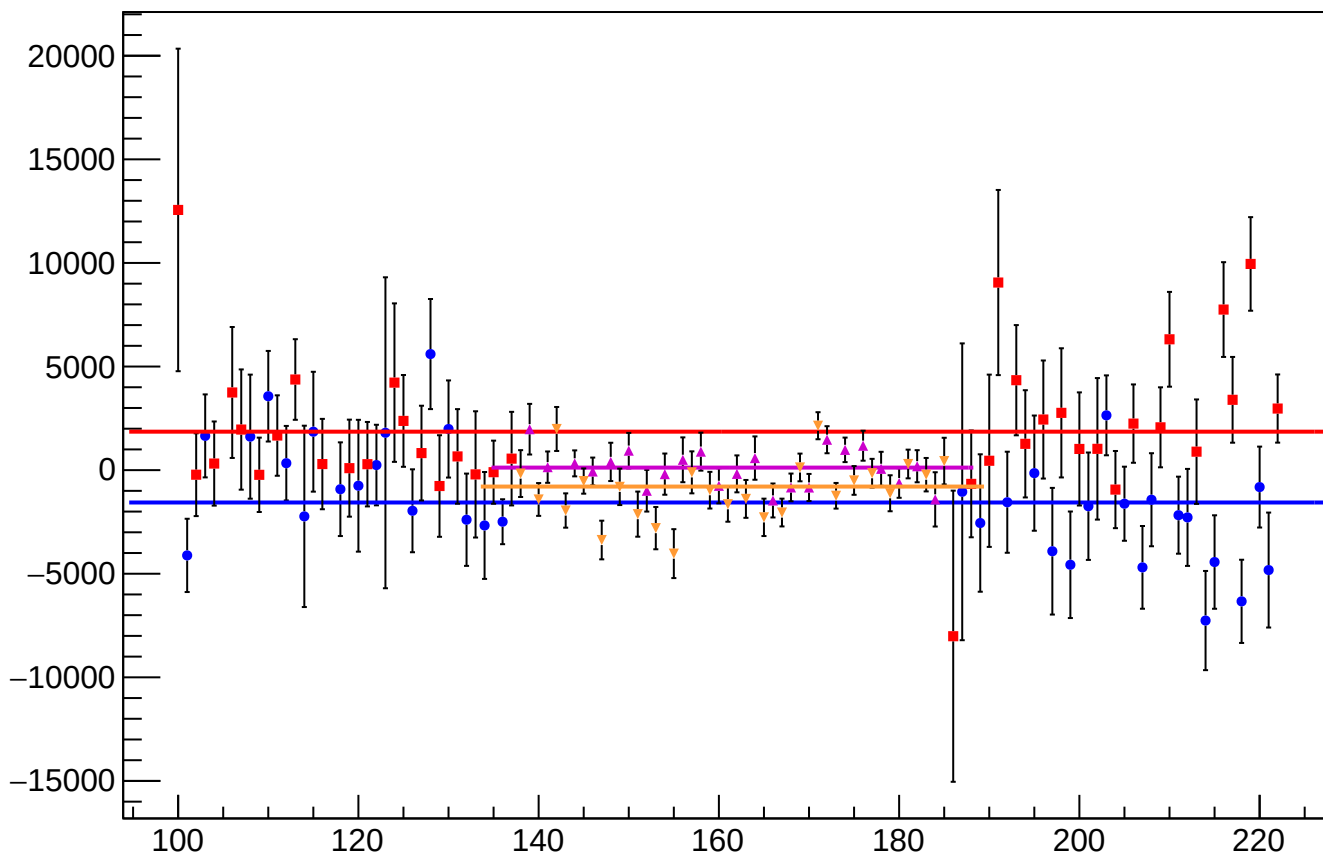
Right: 110.556 $\pm$ 0.013 χ^2 /NDF: 8209307.9/72

In: 88.743 $\pm$ 0.011 χ^2 /NDF:6089528.1/57

Out: 88.420 $\pm$ 0.011 χ^2 /NDF:7467557.9/62

All: 88.578 $\pm$ 0.008 χ^2 /NDF: 13557537.6/120

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1561.789 $\pm$ 376.544 χ^2 /NDF: 49.9/34

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1856.648 $\pm$ 379.339 χ^2 /NDF: 46.7/37

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

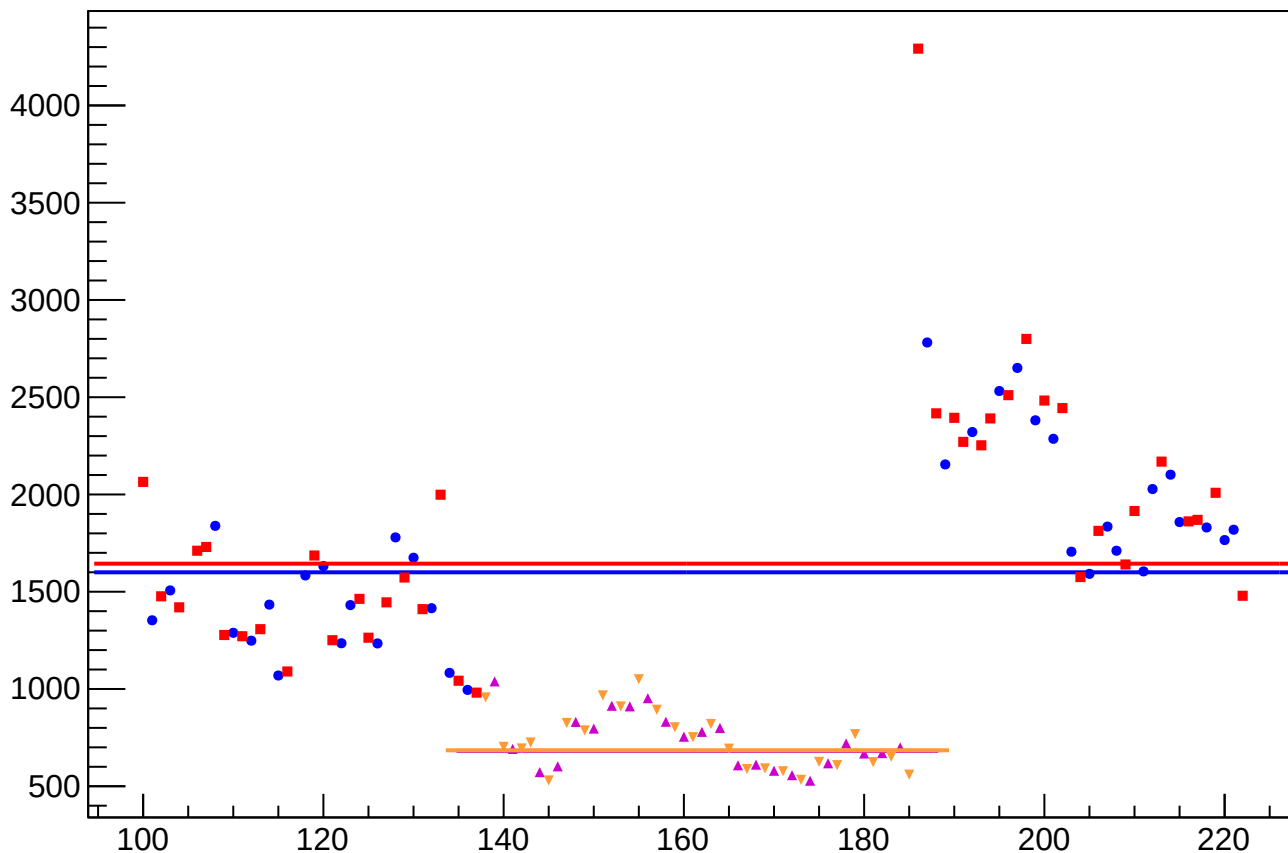
Right: 134.788 $\pm$ 267.240 χ^2 /NDF: 137.5/72

In: -152.363 $\pm$ 152.043 χ^2 /NDF:92.6/57

Out: -381.295 $\pm$ 149.495 χ^2 /NDF:154.5/62

All: -268.763 $\pm$ 106.598 χ^2 /NDF: 248.2/120

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1599.807 $\pm$ 0.266 χ^2 /NDF: 2453068.8/34

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1644.220 $\pm$ 0.268 χ^2 /NDF: 2926846.7/37

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

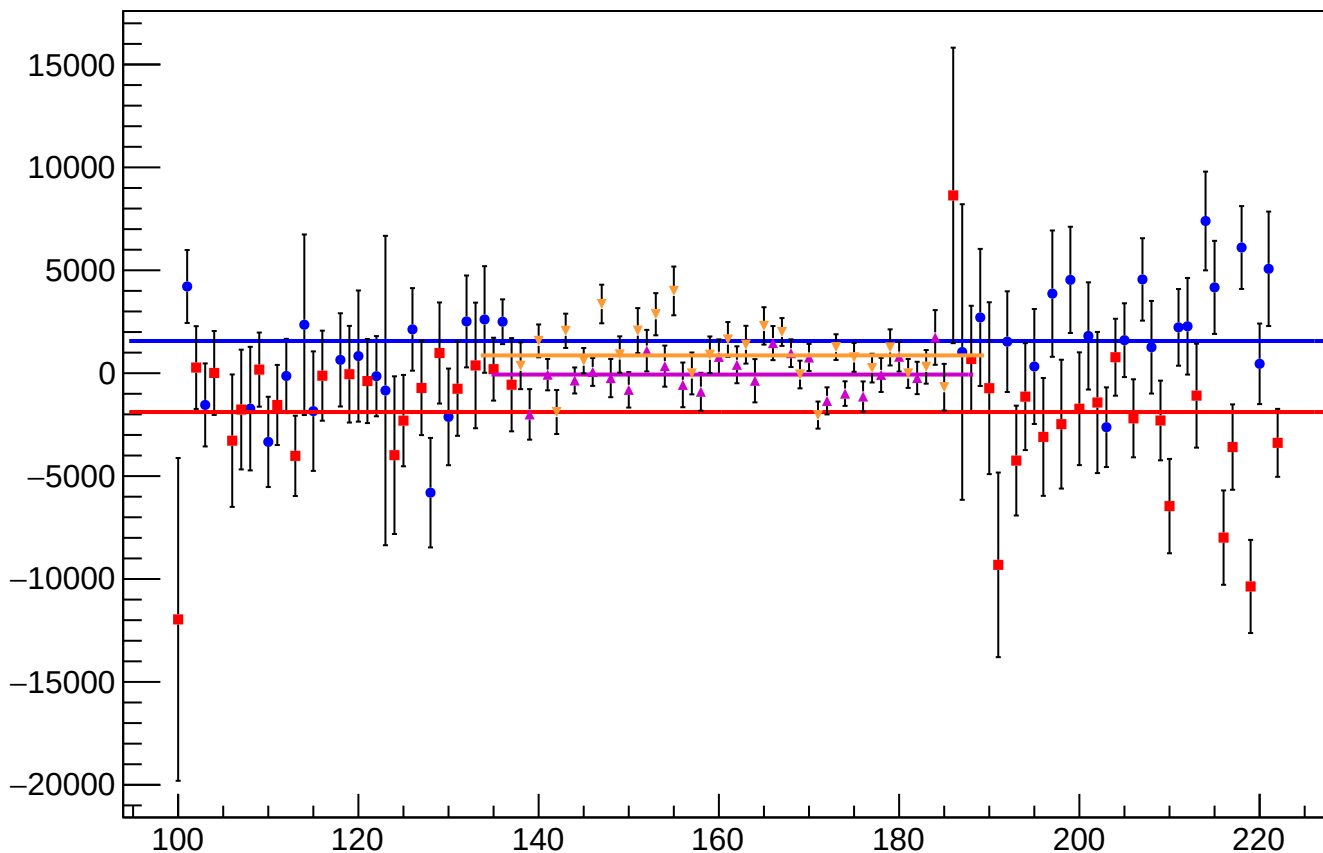
Right: 1621.849 $\pm$ 0.189 χ^2 /NDF: 5393724.5/72

In: 831.400 $\pm$ 0.108 χ^2 /NDF: 13523941.5/57

Out: 833.794 $\pm$ 0.106 χ^2 /NDF: 15013944.3/62

All: 832.617 $\pm$ 0.075 χ^2 /NDF: 28538137.9/12

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1564.578 $\pm$ 377.645 χ^2 /NDF: 49.1/34

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF: 62.8/24

Right Out: -1886.424 $\pm$ 380.571 χ^2 /NDF: 49.0/37

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

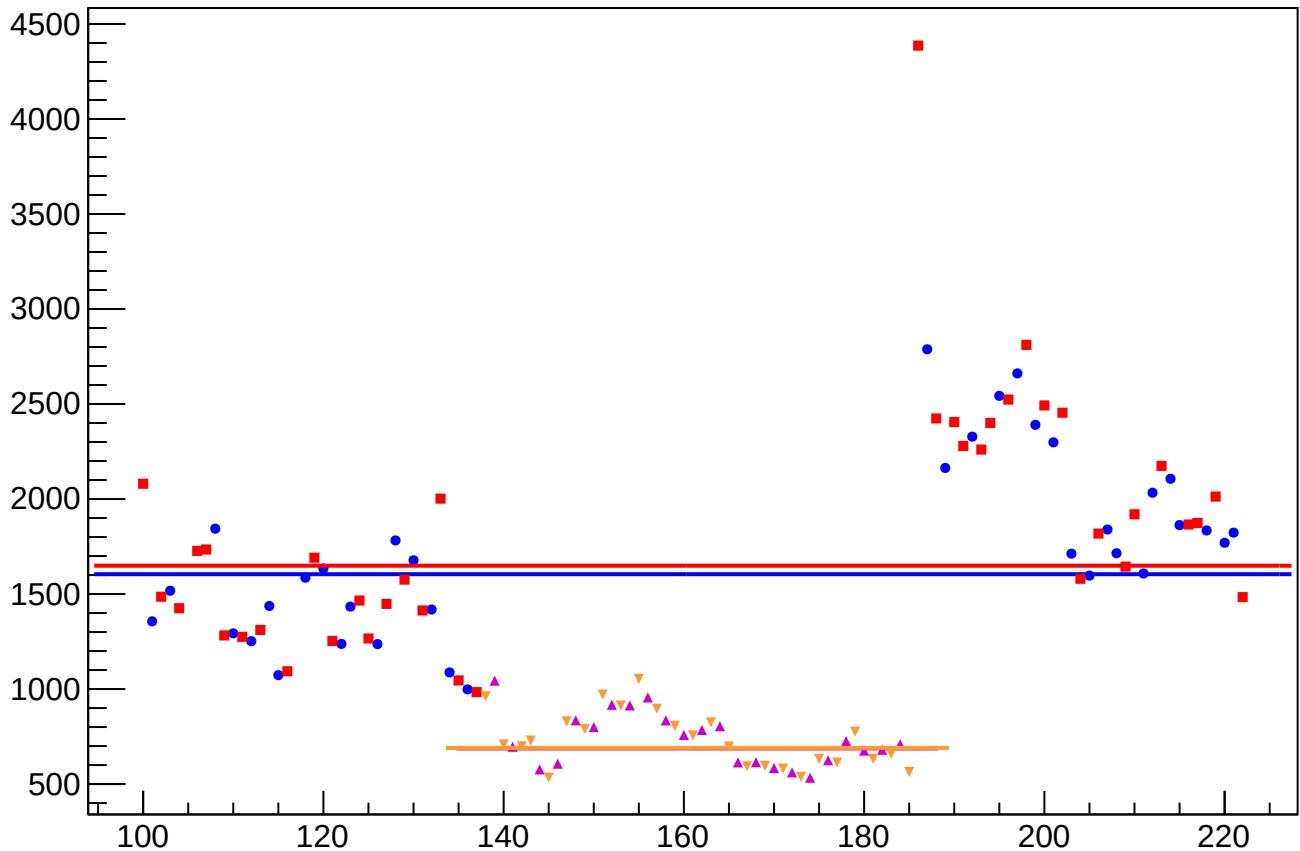
Right: -147.605 $\pm$ 268.064 χ^2 /NDF: 139.5/72

In: 202.068 $\pm$ 153.103 χ^2 /NDF: 91.1/57

Out: 435.090 $\pm$ 150.522 χ^2 /NDF: 156.0/62

All: 320.559 $\pm$ 107.336 χ^2 /NDF: 248.2/120

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1604.428 $\pm$ 0.267 χ^2/NDF : 2455850.1/34

Left Out: 690.166 $\pm$ 0.116 χ^2/NDF :1258158.2/24

Right Out: 1649.104 $\pm$ 0.269 χ^2/NDF : 2937997.1/37

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

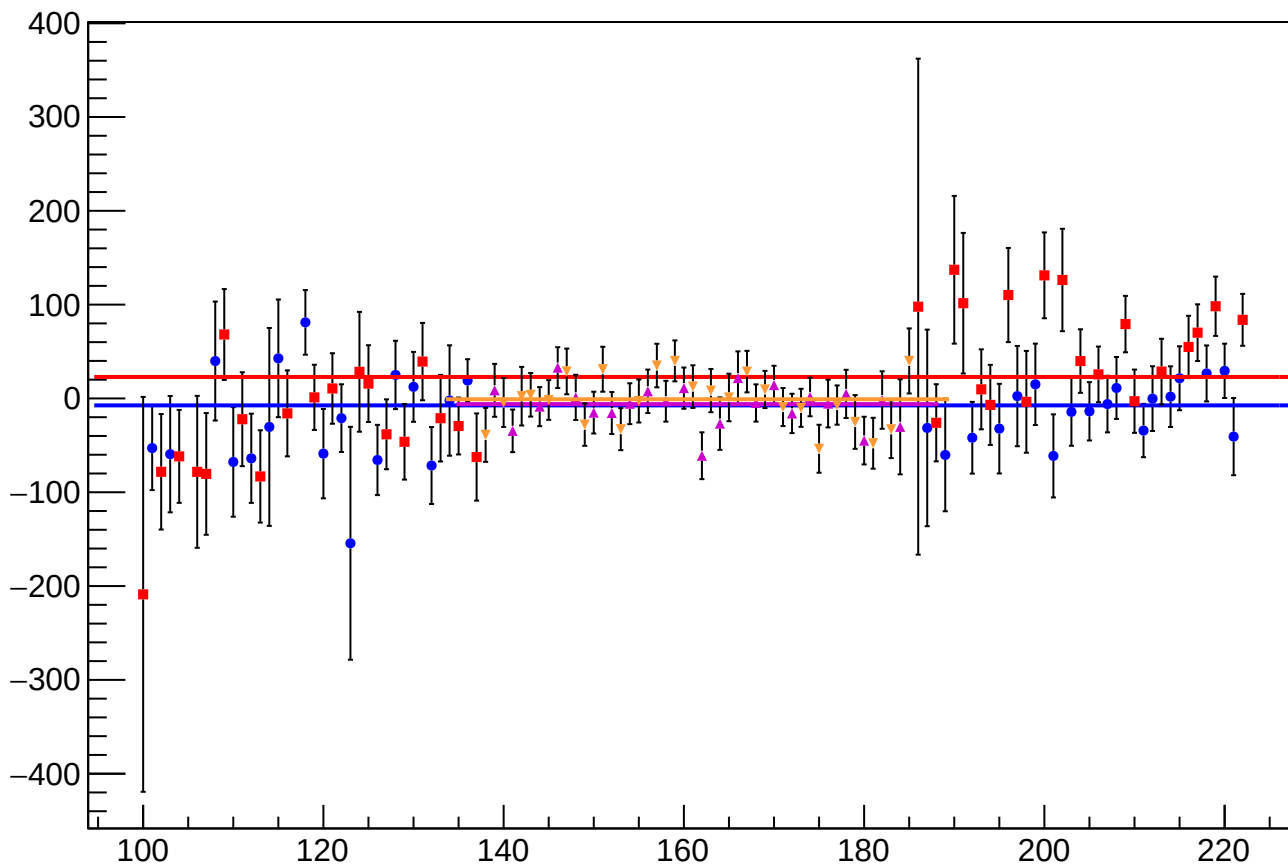
Right: 1626.593 $\pm$ 0.190 χ^2/NDF : 5407734.1/72

In: 837.971 $\pm$ 0.108 χ^2/NDF :13414277.3/57

Out: 840.176 $\pm$ 0.106 χ^2/NDF :14907867.2/62

All: 839.092 $\pm$ 0.076 χ^2/NDF : 28322355.4/12

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -7.410 ± 6.637 χ^2/NDF : 31.4/34

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 22.899 ± 6.768 χ^2/NDF : 67.6/37

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

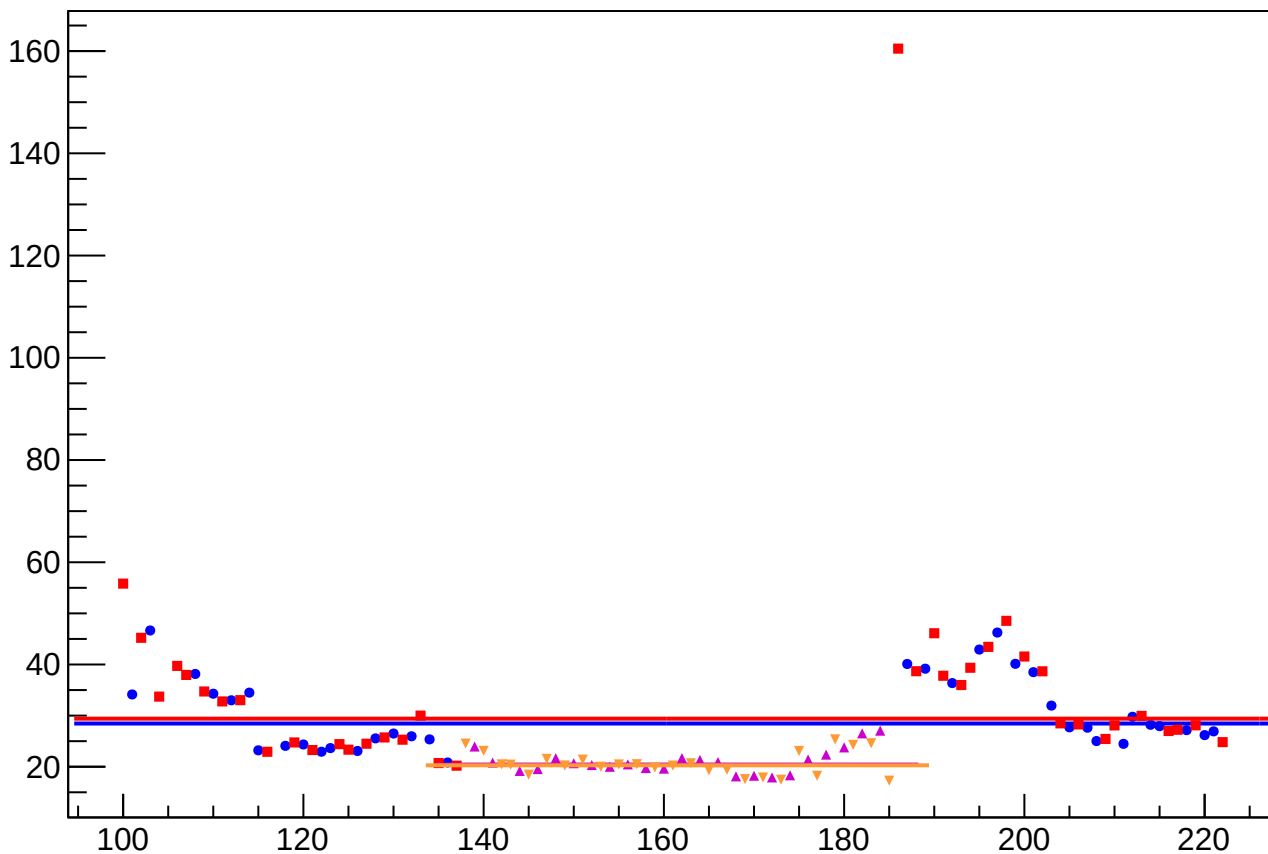
Right: 7.449 ± 4.739 χ^2/NDF : 109.2/72

In: -6.528 ± 3.955 χ^2/NDF : 48.4/57

Out: 7.003 ± 3.894 χ^2/NDF : 103.7/62

All: 0.344 ± 2.775 χ^2/NDF : 158.1/120

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.453+/-0.005 χ^2/NDF : 1635054.2/34

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.405+/-0.005 χ^2/NDF : 2380612.2/37

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

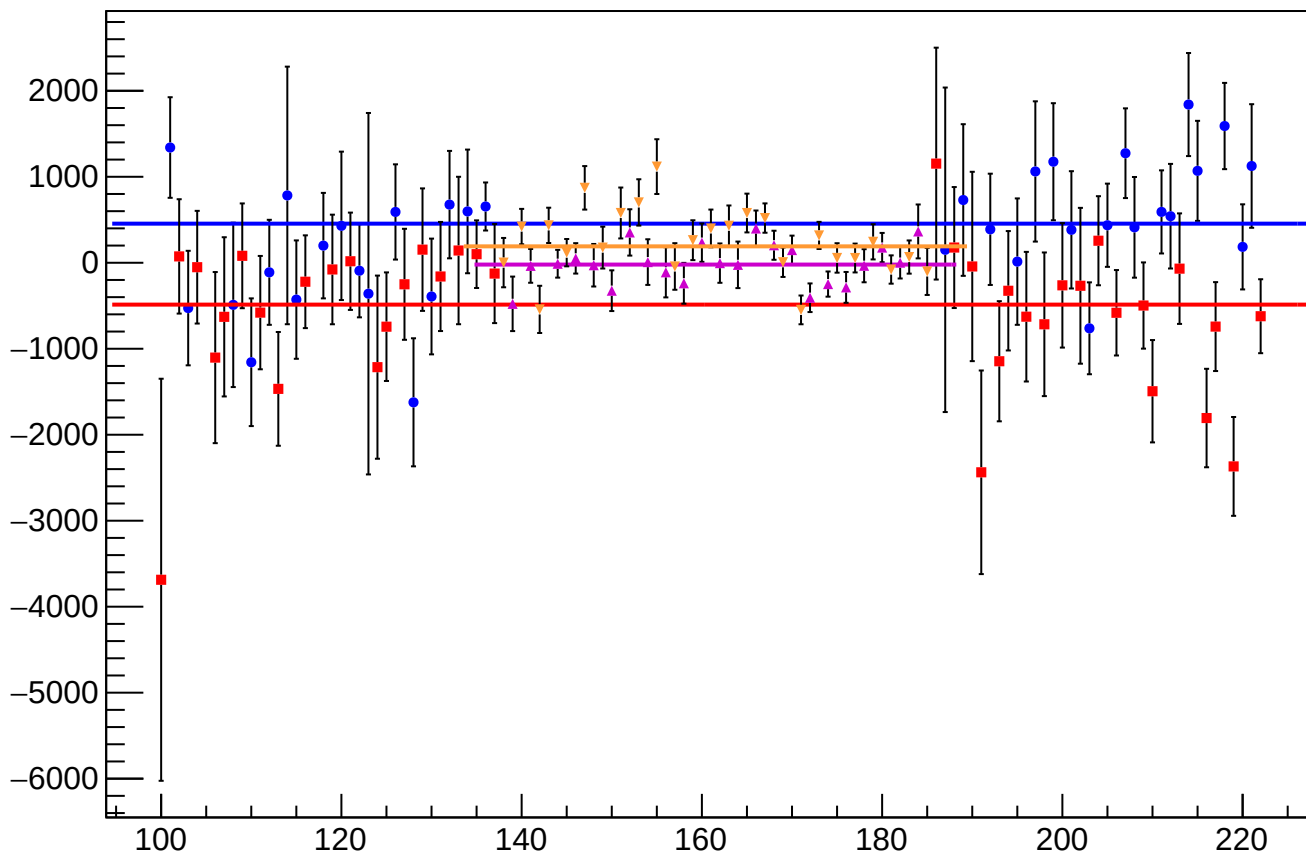
Right: 28.920+/-0.003 χ^2/NDF : 4035863.0/72

In: 23.275+/-0.003 χ^2/NDF : 3846008.4/57

Out: 23.300+/-0.003 χ^2/NDF : 5220786.0/62

All: 23.288+/-0.002 χ^2/NDF : 9066834.3/120

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 454.837 $\pm$ 103.020 χ^2 /NDF: 46.8/34

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -486.757 $\pm$ 104.765 χ^2 /NDF: 41.2/37

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

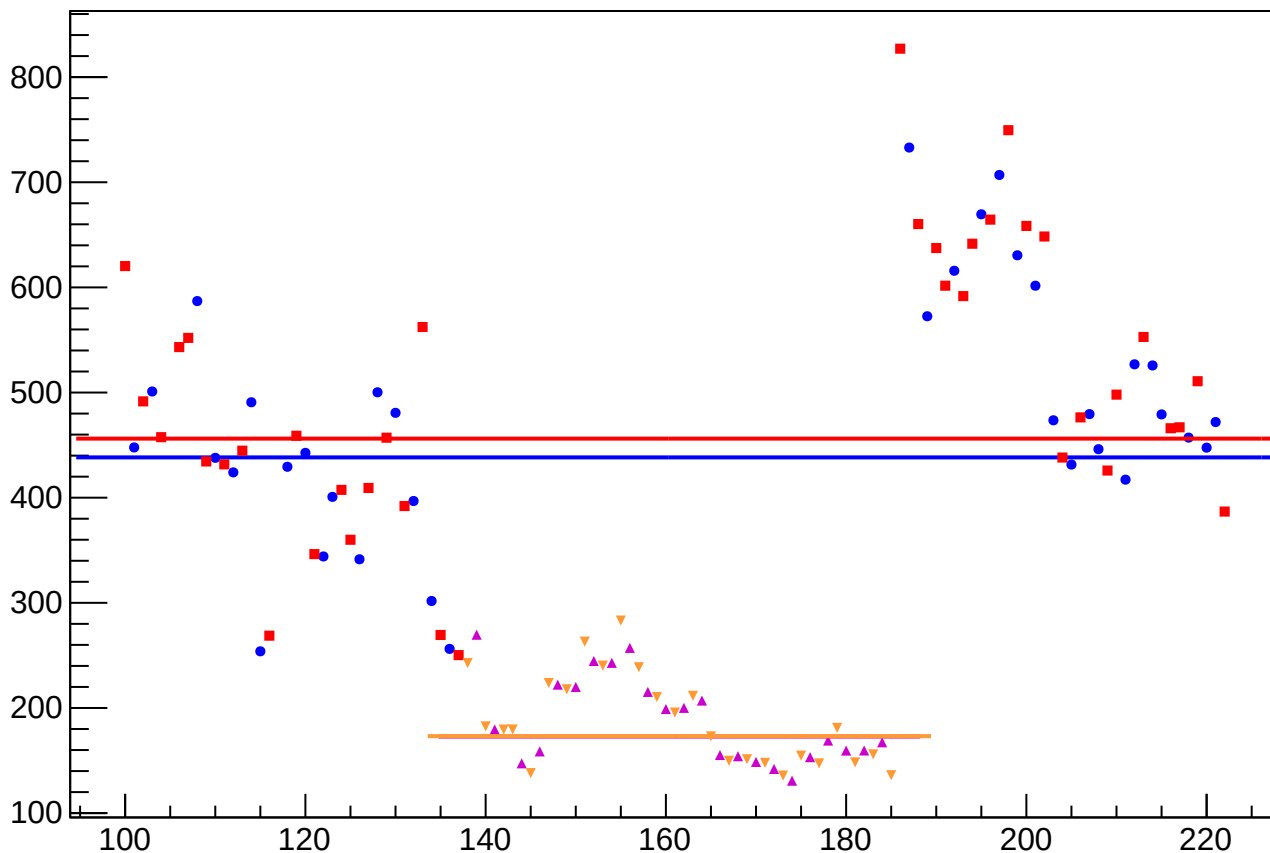
Right: -8.052 $\pm$ 73.455 χ^2 /NDF: 129.1/72

In: 47.625 $\pm$ 39.123 χ^2 /NDF: 92.8/57

Out: 99.671 $\pm$ 38.433 χ^2 /NDF: 145.2/62

All: 74.111 $\pm$ 27.417 χ^2 /NDF: 239.0/120

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 438.326+/-0.073 χ^2/NDF : 2352152.3/34

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 456.174+/-0.074 χ^2/NDF : 2600415.0/37

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

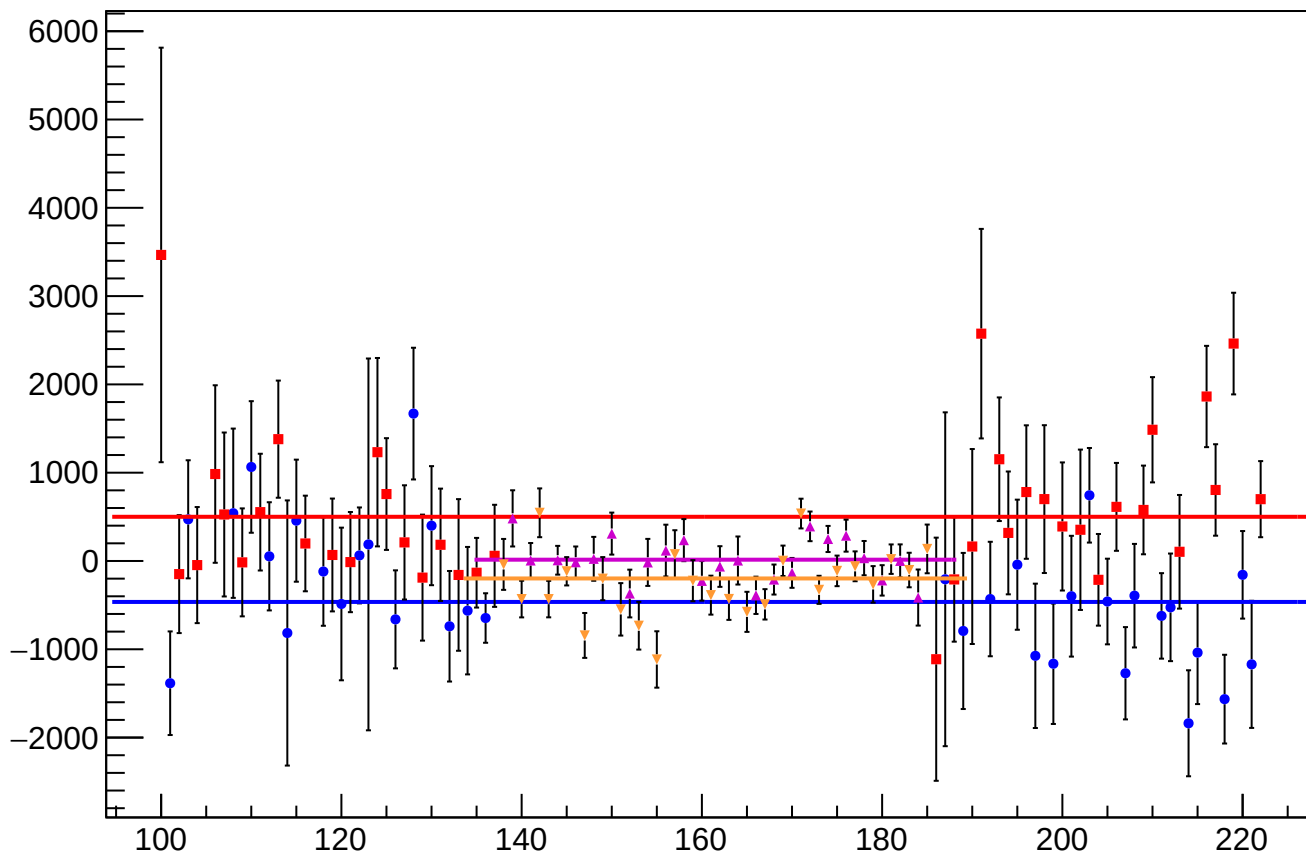
Right: 447.100+/-0.052 χ^2/NDF : 4982076.5/72

In: 211.117+/-0.028 χ^2/NDF :15092119.7/57

Out: 211.292+/-0.027 χ^2/NDF :16788264.5/62

All: 211.206+/-0.019 χ^2/NDF : 31880404.5/12

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -463.892 ± 103.268 $\chi^2/\text{NDF}: 46.3/34$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 500.555 ± 105.035 $\chi^2/\text{NDF}: 42.9/37$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

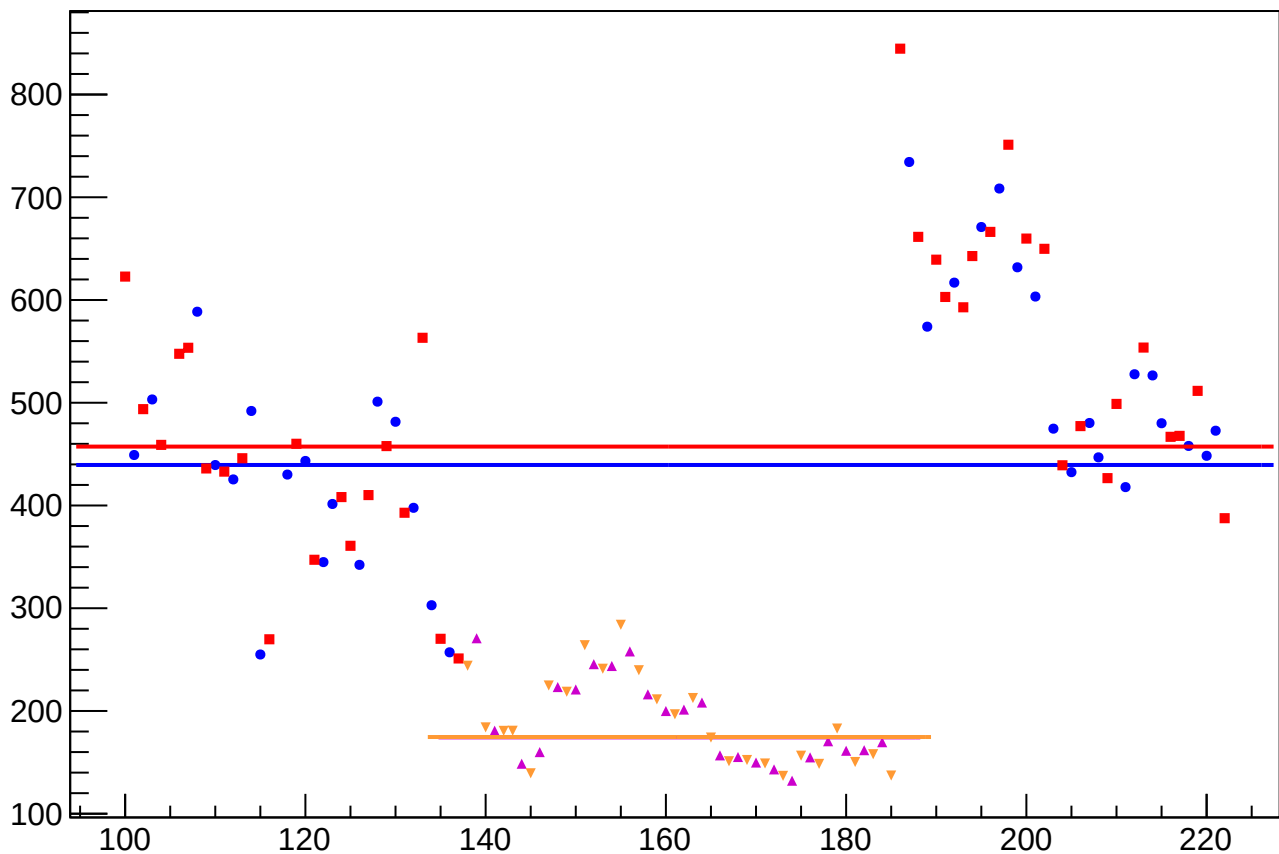
Right: 10.154 ± 73.638 $\chi^2/\text{NDF}: 132.0/72$

In: -55.053 ± 39.404 $\chi^2/\text{NDF}: 92.3/57$

Out: -103.060 ± 38.708 $\chi^2/\text{NDF}: 145.4/62$

All: -79.484 ± 27.613 $\chi^2/\text{NDF}: 238.5/120$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 439.437 $\pm$ 0.073 χ^2 /NDF: 2344252.0/34

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF:1531999.5/24

Right Out: 457.324 $\pm$ 0.074 χ^2 /NDF: 2602787.6/37

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

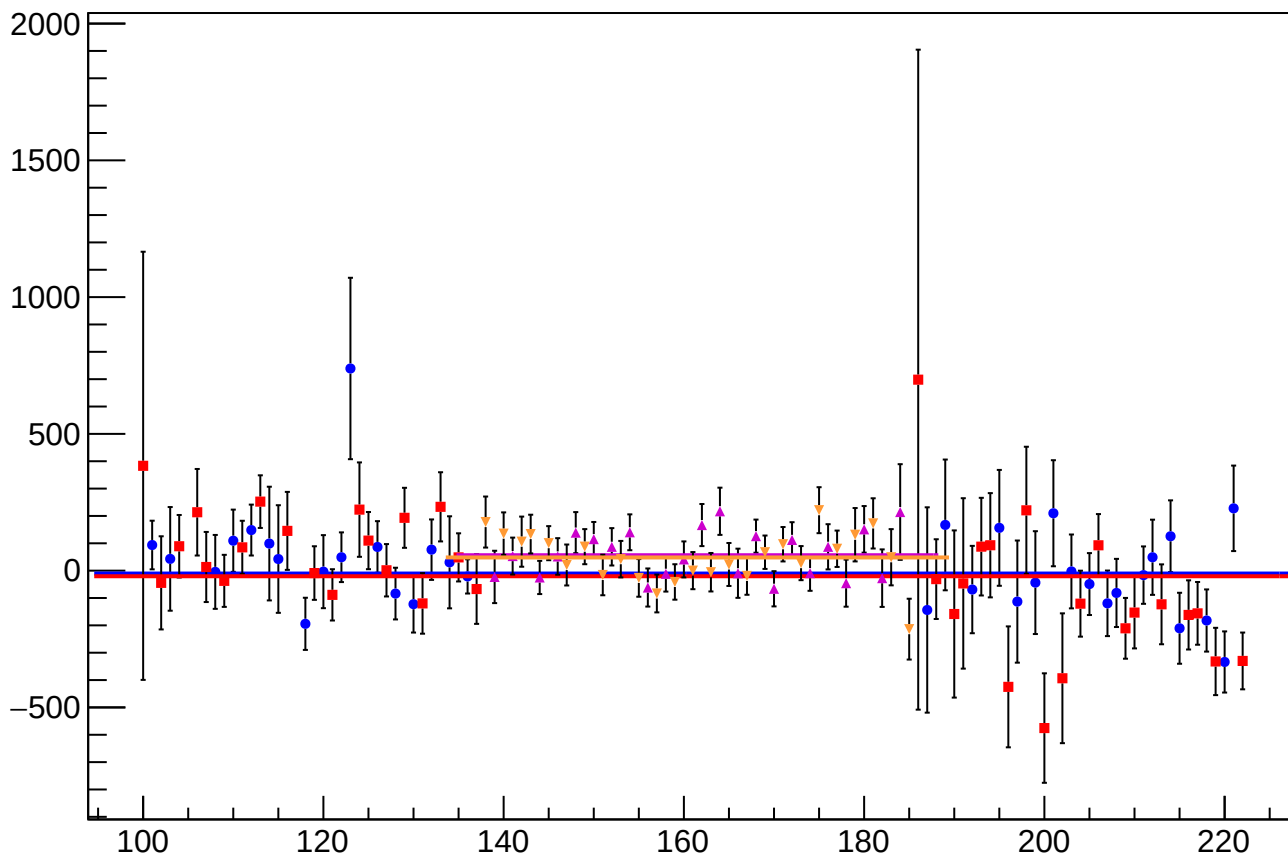
Right: 448.229 $\pm$ 0.052 χ^2 /NDF: 4976530.0/72

In: 212.893 $\pm$ 0.028 χ^2 /NDF:14954241.7/57

Out: 213.037 $\pm$ 0.027 χ^2 /NDF:16653236.3/62

All: 212.966 $\pm$ 0.020 χ^2 /NDF: 31607491.8/12

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -10.571 ± 20.739 χ^2/NDF : 39.5/34

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: -20.493 ± 20.870 χ^2/NDF : 67.6/37

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

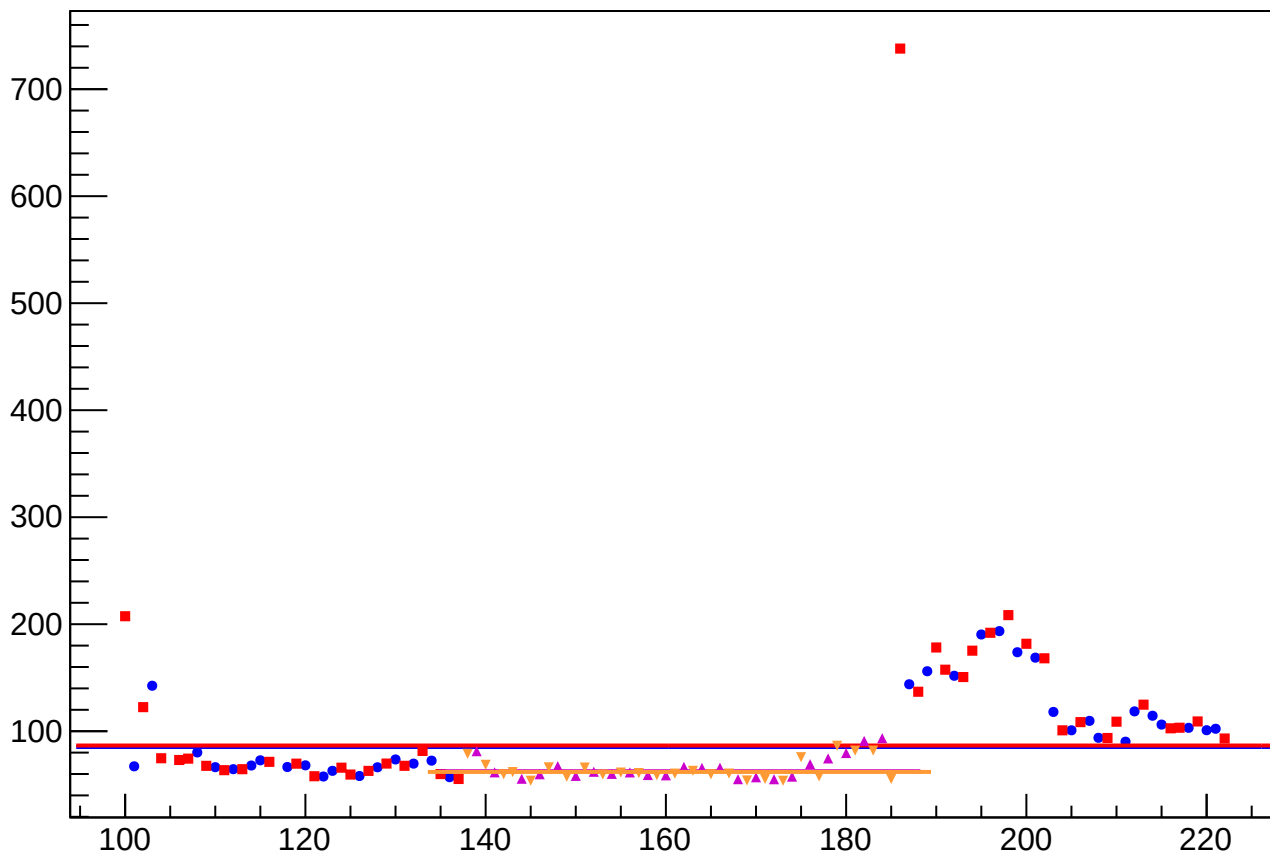
Right: -15.501 ± 14.711 χ^2/NDF : 107.2/72

In: 33.034 ± 12.250 χ^2/NDF : 73.7/57

Out: 25.618 ± 11.972 χ^2/NDF : 104.1/62

All: 29.241 ± 8.562 χ^2/NDF : 178.0/120

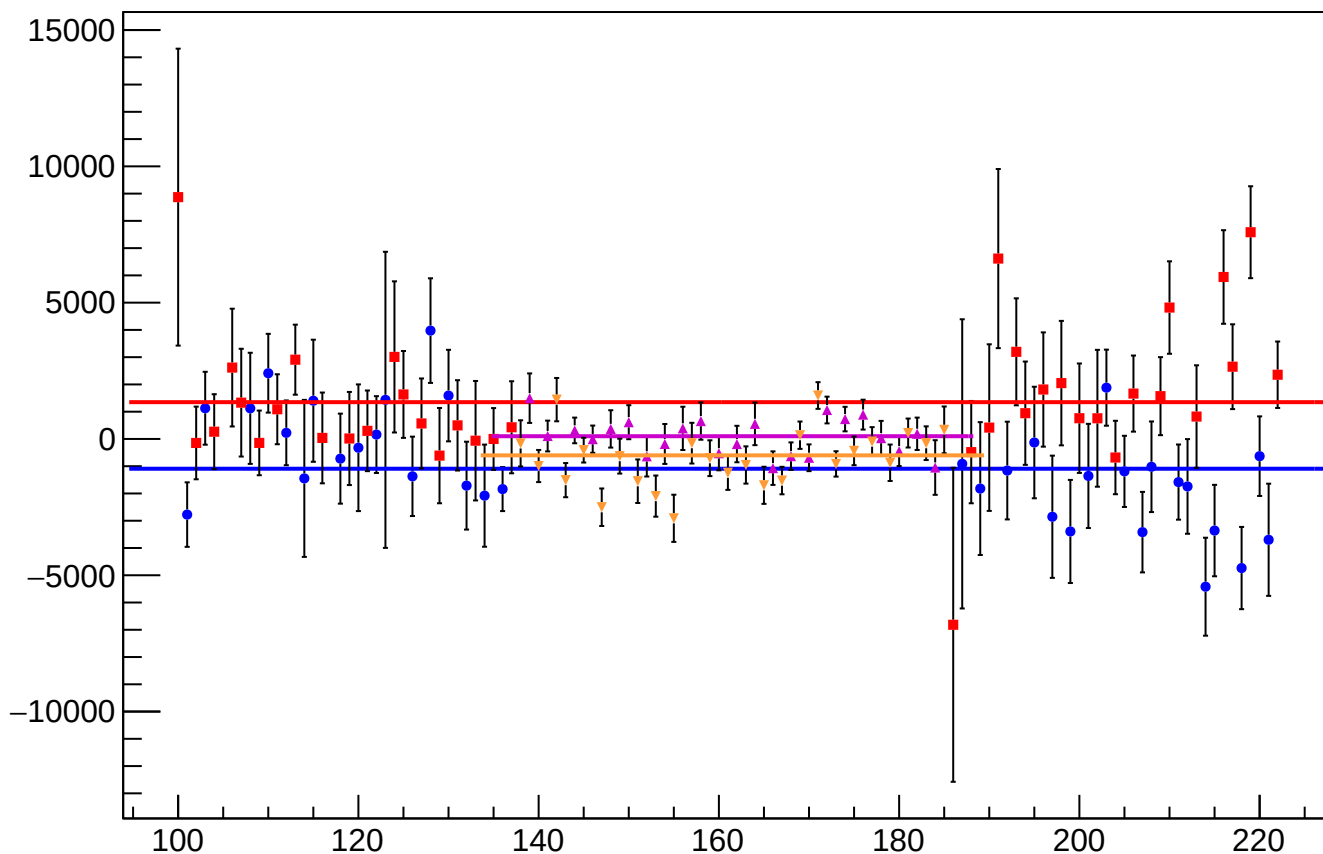
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 85.234+/-0.015 χ^2/NDF : 4460831.1/34
 Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24
 Right Out: 86.625+/-0.015 χ^2/NDF : 5396722.6/37
 Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47
 Right: 85.925+/-0.010 χ^2/NDF : 9862028.3/72
 In: 70.502+/-0.009 χ^2/NDF : 6586343.6/57
 Out: 70.067+/-0.008 χ^2/NDF : 7878053.8/62
 All: 70.280+/-0.006 χ^2/NDF : 14465686.0/120

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1092.395 $\pm$ 272.089 χ^2 /NDF: 51.2/34

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 1349.582 $\pm$ 272.752 χ^2 /NDF: 48.9/37

Left In: 100.548 $\pm$ 124.725 χ^2 /NDF:25.5/22

Left: -257.880 $\pm$ 87.258 χ^2 /NDF: 107.0/47

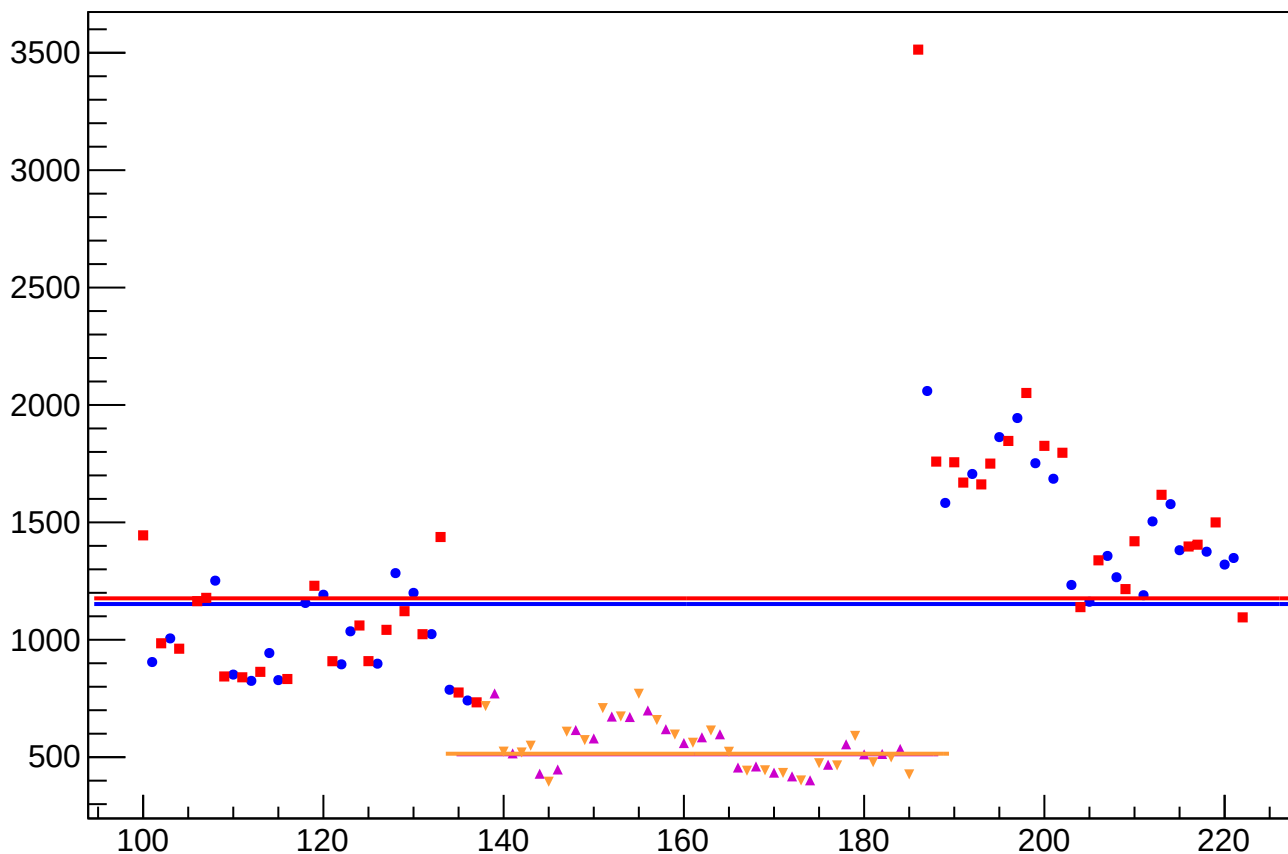
Right: 125.624 $\pm$ 192.630 χ^2 /NDF: 140.3/72

In: -106.596 $\pm$ 113.380 χ^2 /NDF:92.6/57

Out: -275.684 $\pm$ 111.457 χ^2 /NDF:156.9/62

All: -192.586 $\pm$ 79.483 χ^2 /NDF: 250.6/120

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1152.197 $\pm$ 0.192 χ^2 /NDF: 2688800.2/34

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF: 1194945.9/24

Right Out: 1176.443 $\pm$ 0.193 χ^2 /NDF: 3283663.5/37

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF: 1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

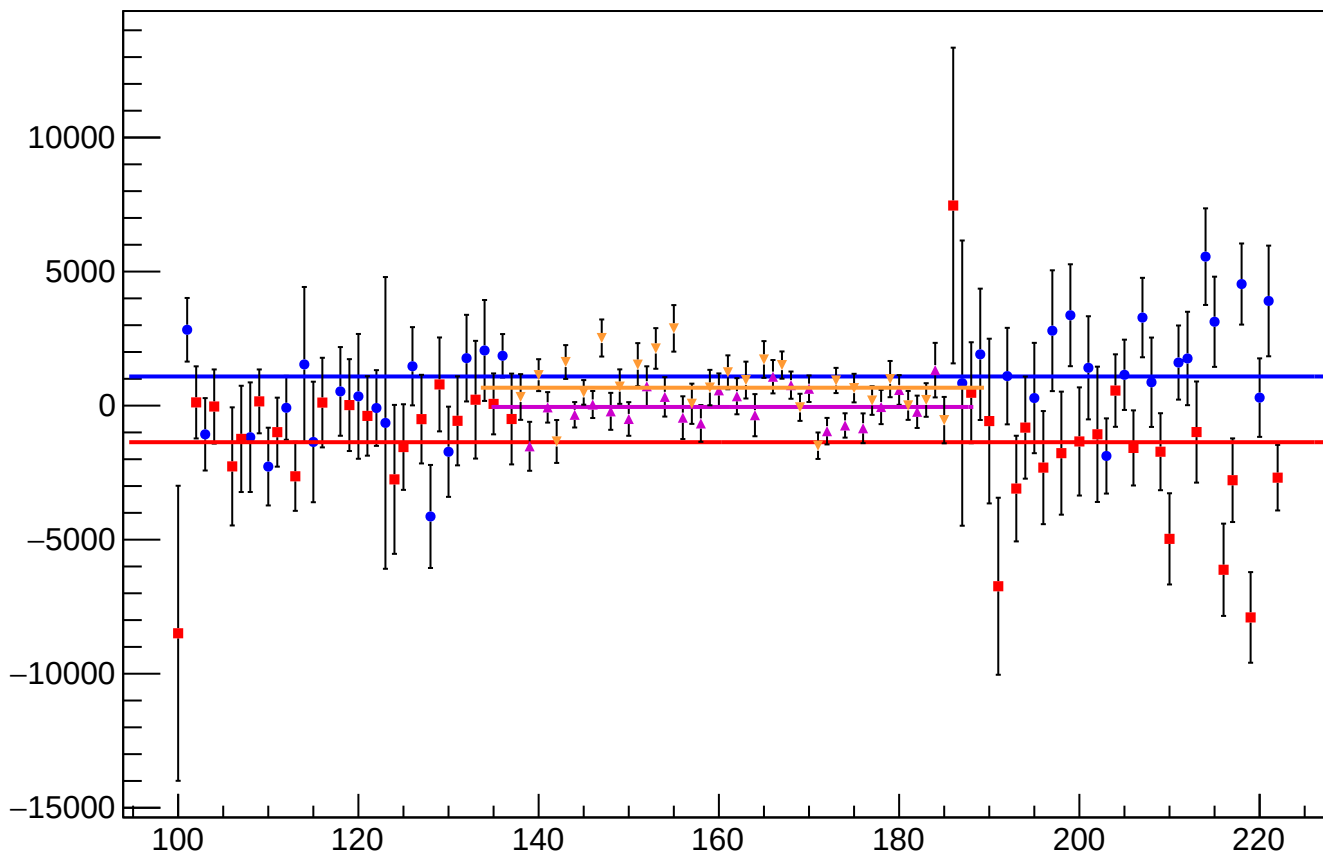
Right: 1164.291 $\pm$ 0.136 χ^2 /NDF: 5980385.4/72

In: 623.329 $\pm$ 0.080 χ^2 /NDF: 12874045.0/57

Out: 625.250 $\pm$ 0.079 χ^2 /NDF: 14283686.1/62

All: 624.306 $\pm$ 0.056 χ^2 /NDF: 27158023.1/119

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1086.932 $\pm$ 273.069 χ^2 /NDF: 50.3/34

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF: 61.5/24

Right Out: -1364.213 $\pm$ 273.837 χ^2 /NDF: 51.5/37

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

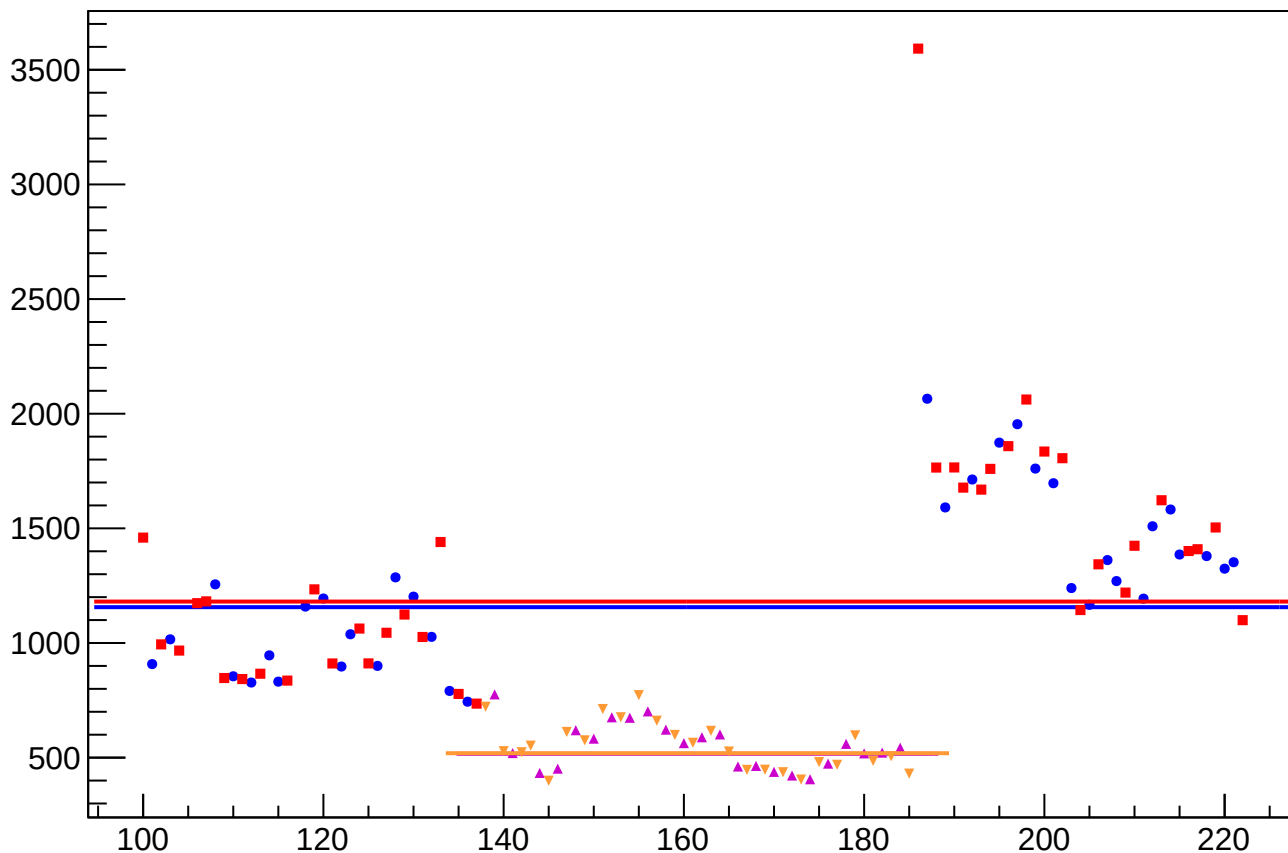
Right: -135.198 $\pm$ 193.360 χ^2 /NDF: 142.0/72

In: 148.999 $\pm$ 114.262 χ^2 /NDF: 90.7/57

Out: 325.839 $\pm$ 112.312 χ^2 /NDF: 158.7/62

All: 238.941 $\pm$ 80.097 χ^2 /NDF: 250.7/120

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1156.264 $\pm$ 0.193 χ^2 /NDF: 2694062.6/34

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1180.717 $\pm$ 0.194 χ^2 /NDF: 3296418.6/37

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

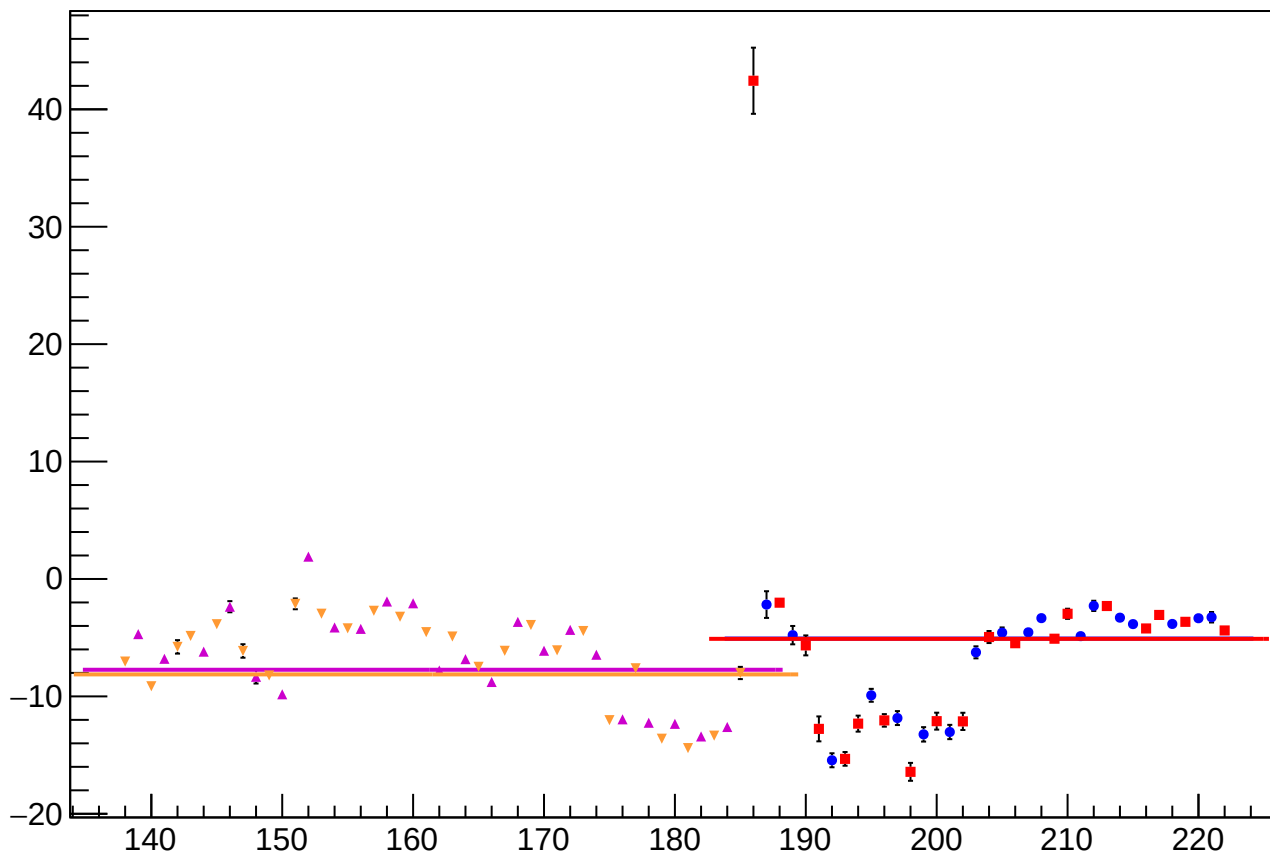
Right: 1168.456 $\pm$ 0.137 χ^2 /NDF: 5998477.3/72

In: 628.756 $\pm$ 0.081 χ^2 /NDF:12763117.3/57

Out: 630.522 $\pm$ 0.079 χ^2 /NDF:14175460.8/62

All: 629.654 $\pm$ 0.057 χ^2 /NDF: 26938821.1/12

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected

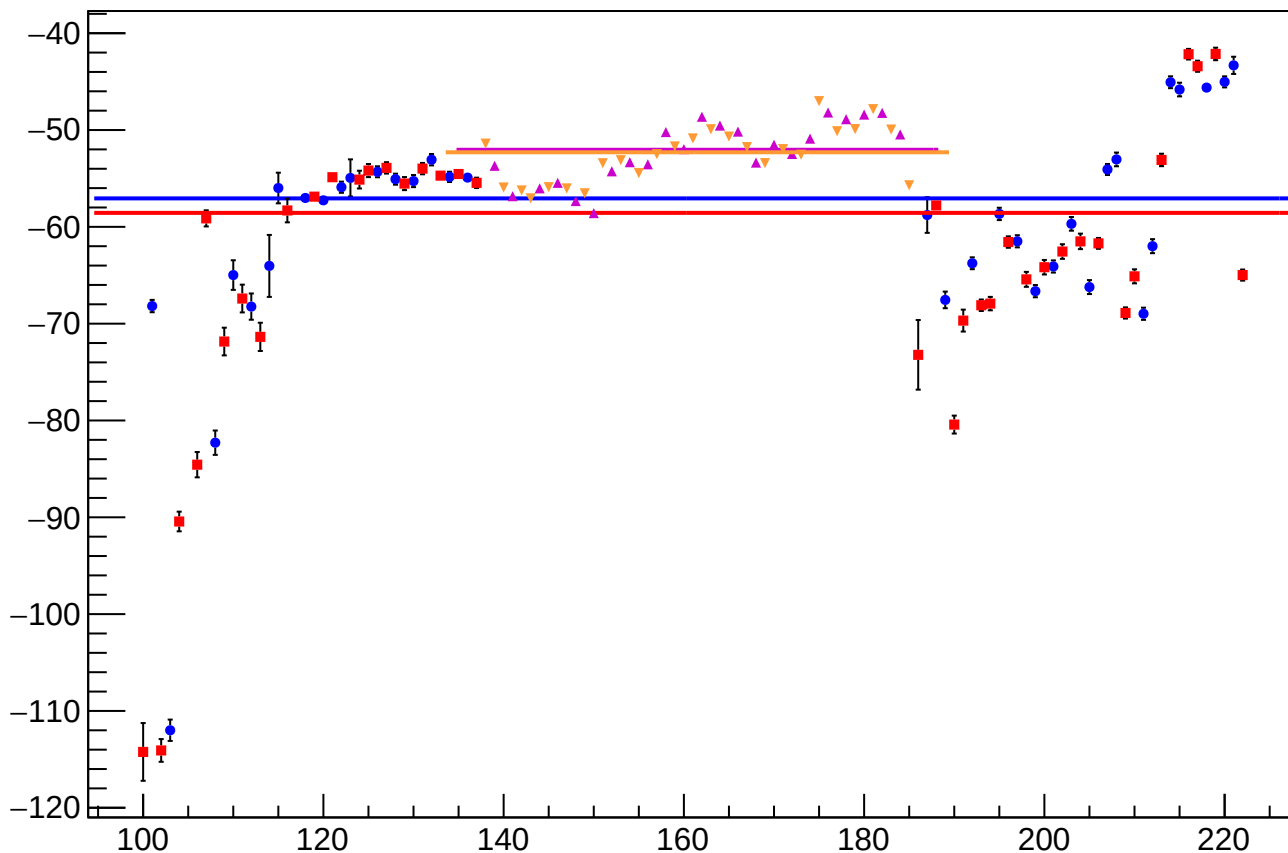


Right In: -5.077 ± 0.099 $\chi^2/\text{NDF}: 1050.9/17$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -5.099 ± 0.099 $\chi^2/\text{NDF}: 1599.5/18$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: -5.088 ± 0.070 $\chi^2/\text{NDF}: 2650.5/36$
 In: -6.869 ± 0.057 $\chi^2/\text{NDF}: 5253.8/40$
 Out: -7.169 ± 0.056 $\chi^2/\text{NDF}: 5874.1/43$

All: -7.021 ± 0.040 $\chi^2/\text{NDF}: 11142.2/84$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.062 ± 0.105 $\chi^2/\text{NDF}: 6688.3/34$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -58.557 ± 0.105 $\chi^2/\text{NDF}: 8913.9/37$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

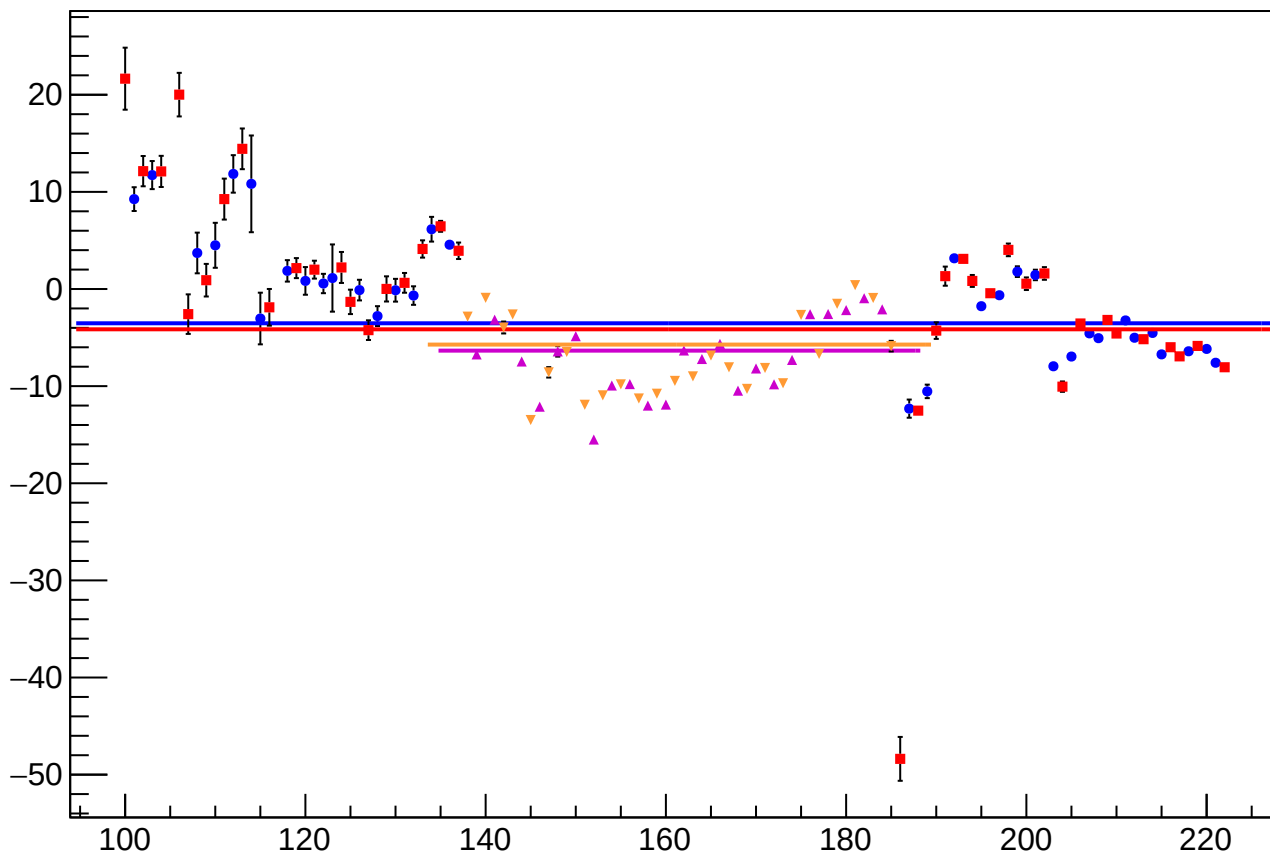
Right: -57.816 ± 0.074 $\chi^2/\text{NDF}: 15703.6/72$

In: -53.179 ± 0.050 $\chi^2/\text{NDF}: 11623.5/57$

Out: -53.657 ± 0.049 $\chi^2/\text{NDF}: 14380.2/62$

All: -53.425 ± 0.035 $\chi^2/\text{NDF}: 26050.4/120$

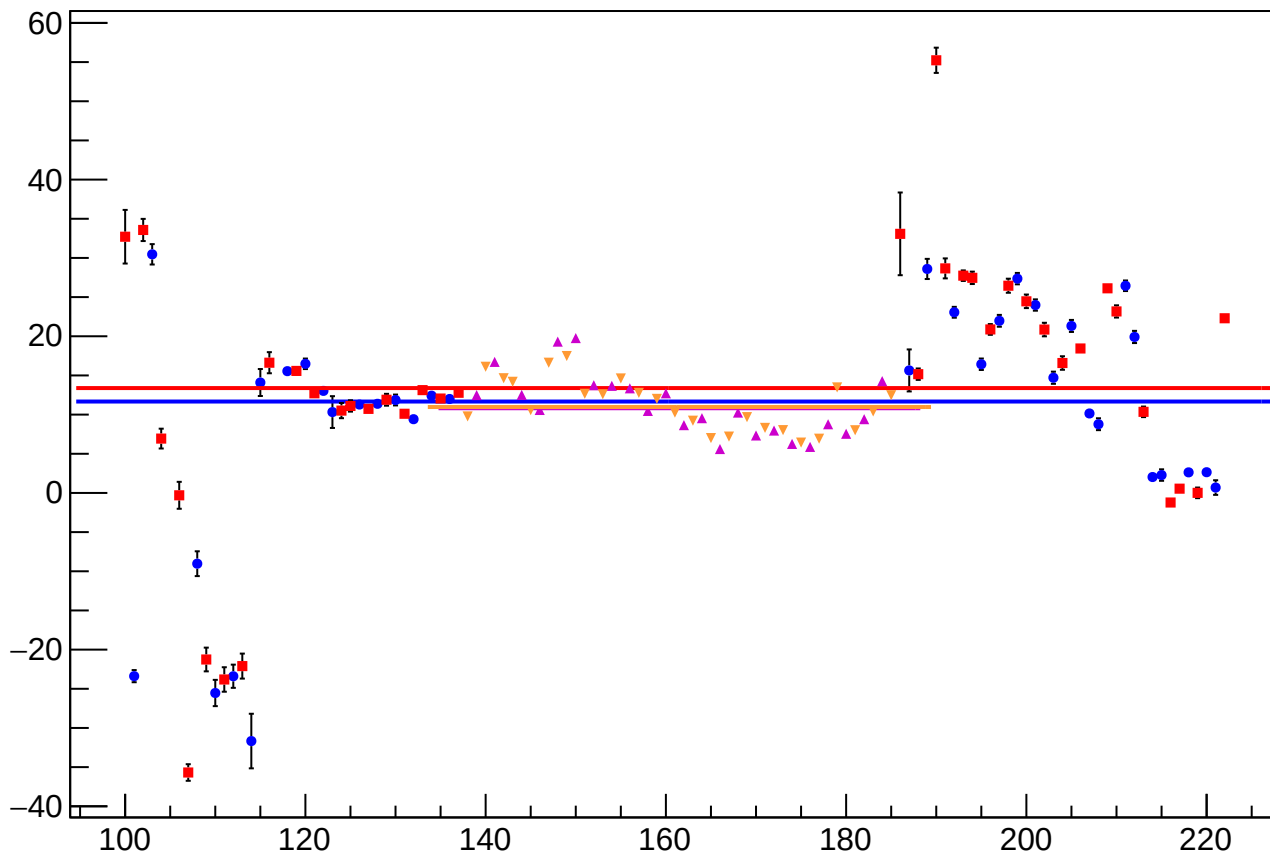
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.529 ± 0.094 χ^2/NDF : 1891.6/34
 Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24
 Right Out: -4.149 ± 0.093 χ^2/NDF : 3544.0/37
 Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47
 Right: -3.842 ± 0.066 χ^2/NDF : 5457.5/72
 In: -5.368 ± 0.055 χ^2/NDF : 5858.5/57
 Out: -5.180 ± 0.055 χ^2/NDF : 7713.6/62
 All: -5.273 ± 0.039 χ^2/NDF : 13577.9/120

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.669 $\pm$ 0.116 χ^2 /NDF: 7063.2/34

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24

Right Out: 13.387 $\pm$ 0.117 χ^2 /NDF: 8760.0/37

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

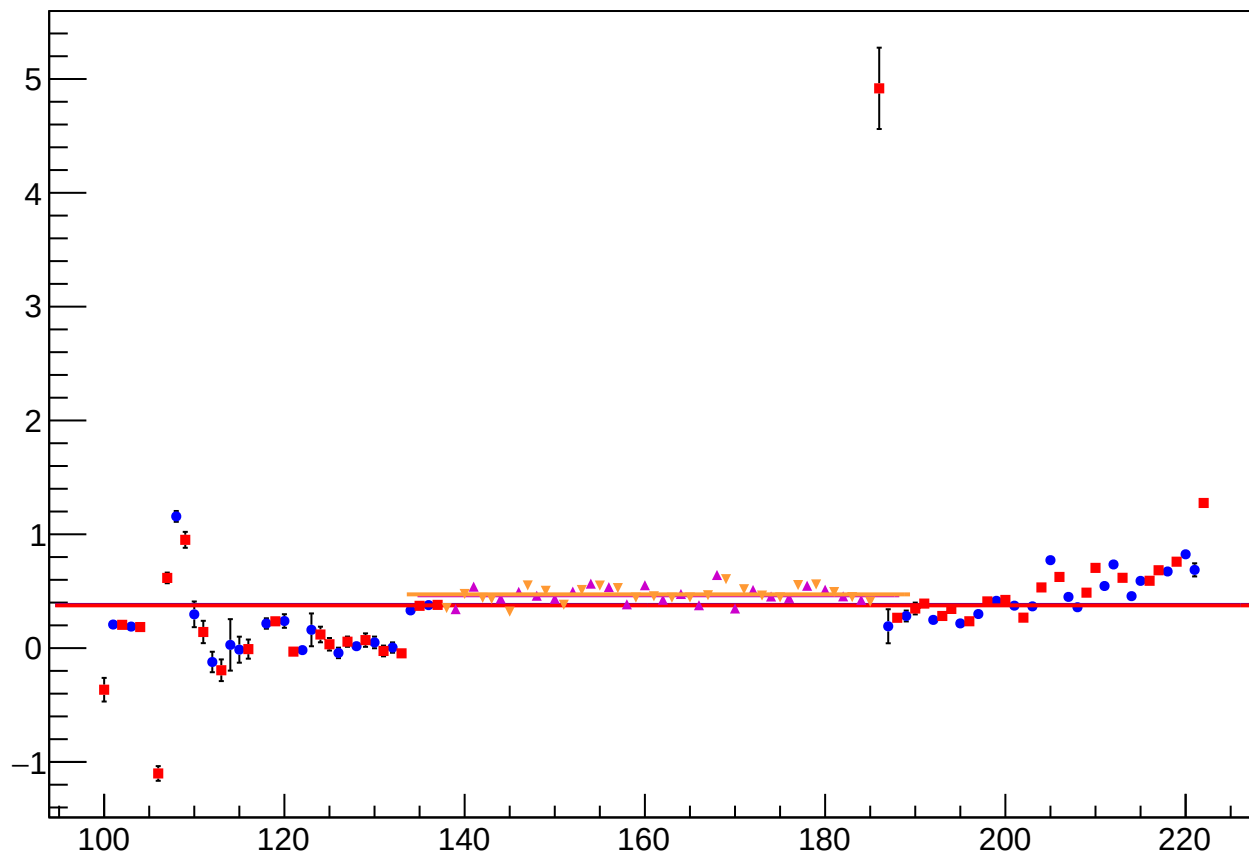
Right: 12.522 $\pm$ 0.082 χ^2 /NDF: 15931.6/72

In: 11.008 $\pm$ 0.055 χ^2 /NDF:10651.9/57

Out: 11.489 $\pm$ 0.054 χ^2 /NDF:11733.1/62

All: 11.254 $\pm$ 0.039 χ^2 /NDF: 22423.3/120

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.379+/-0.005 χ^2/NDF : 1428.2/34

Left Out: 0.472+/-0.003 χ^2/NDF : 519.0/24

Right Out: 0.376+/-0.005 χ^2/NDF : 2606.2/37

Left In: 0.464+/-0.003 χ^2/NDF : 733.1/22

Left: 0.468+/-0.002 χ^2/NDF : 1256.2/47

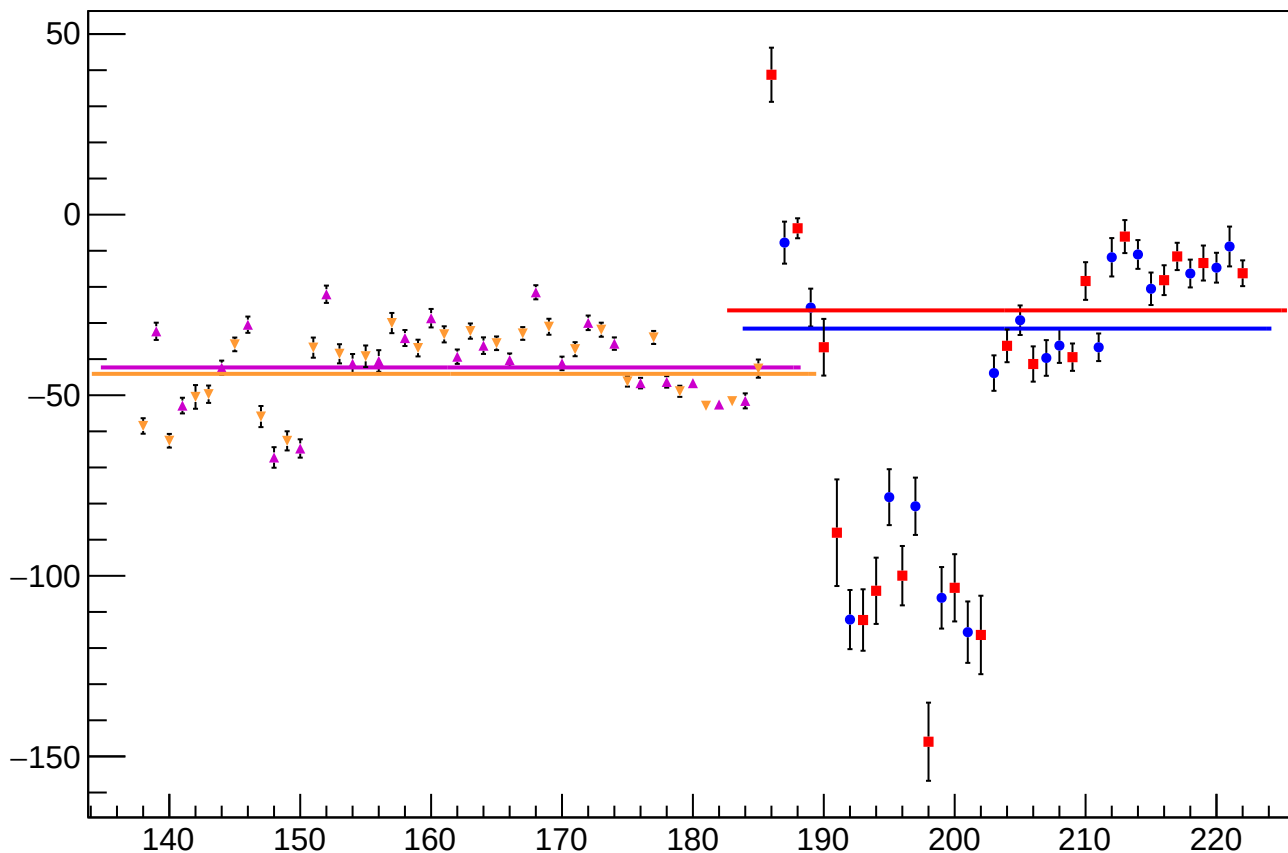
Right: 0.378+/-0.004 χ^2/NDF : 4034.6/72

In: 0.446+/-0.002 χ^2/NDF : 2367.0/57

Out: 0.452+/-0.002 χ^2/NDF : 3385.5/62

All: 0.449+/-0.002 χ^2/NDF : 5755.6/120

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.548 ± 1.193 $\chi^2/\text{NDF}: 471.6/17$

Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$

Right Out: -26.508 ± 1.168 $\chi^2/\text{NDF}: 757.2/18$

Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$

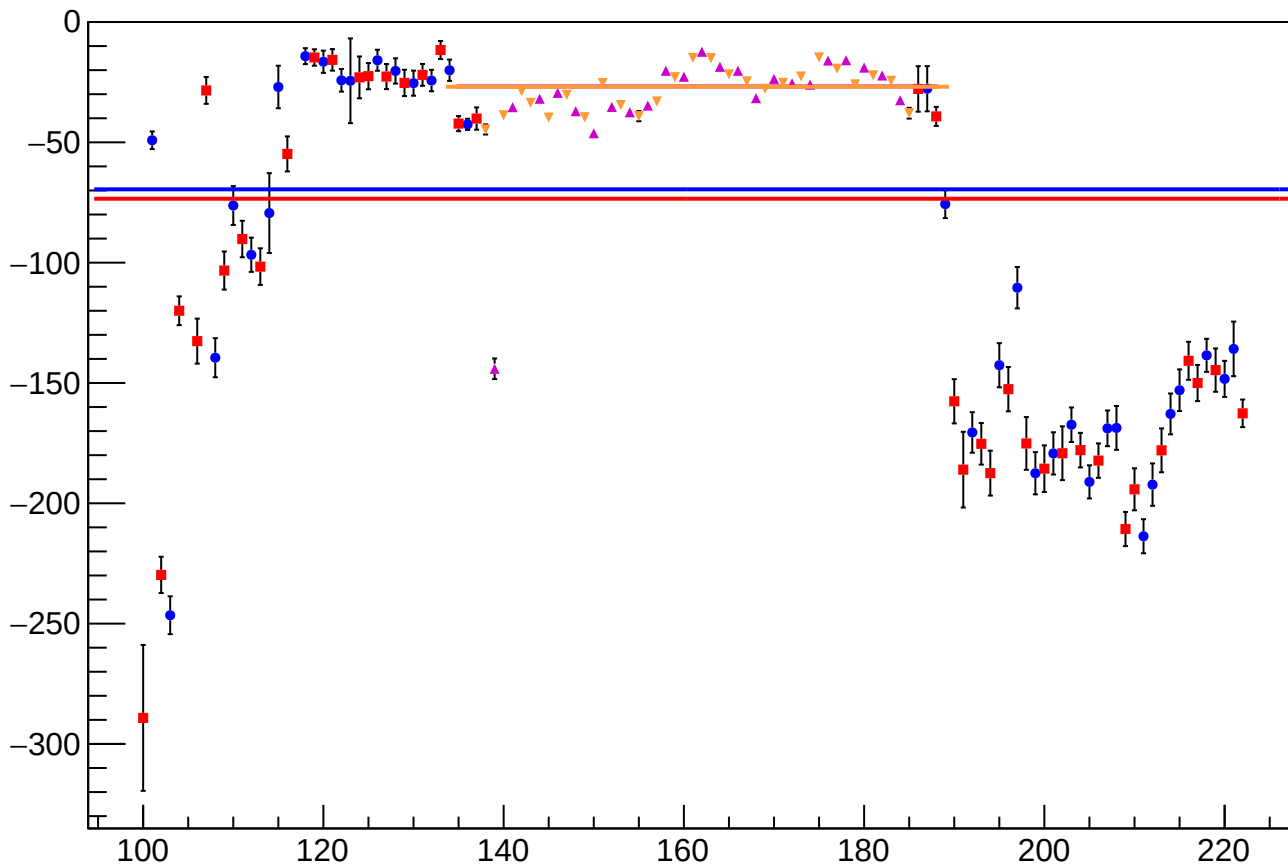
Right: -28.974 ± 0.835 $\chi^2/\text{NDF}: 1237.9/36$

In: -41.222 ± 0.379 $\chi^2/\text{NDF}: 1185.3/40$

Out: -42.326 ± 0.369 $\chi^2/\text{NDF}: 1593.4/43$

All: -41.789 ± 0.264 $\chi^2/\text{NDF}: 2783.1/84$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.534 ± 0.980 $\chi^2/\text{NDF}: 4284.5/34$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -73.438 ± 1.002 $\chi^2/\text{NDF}: 4519.1/37$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

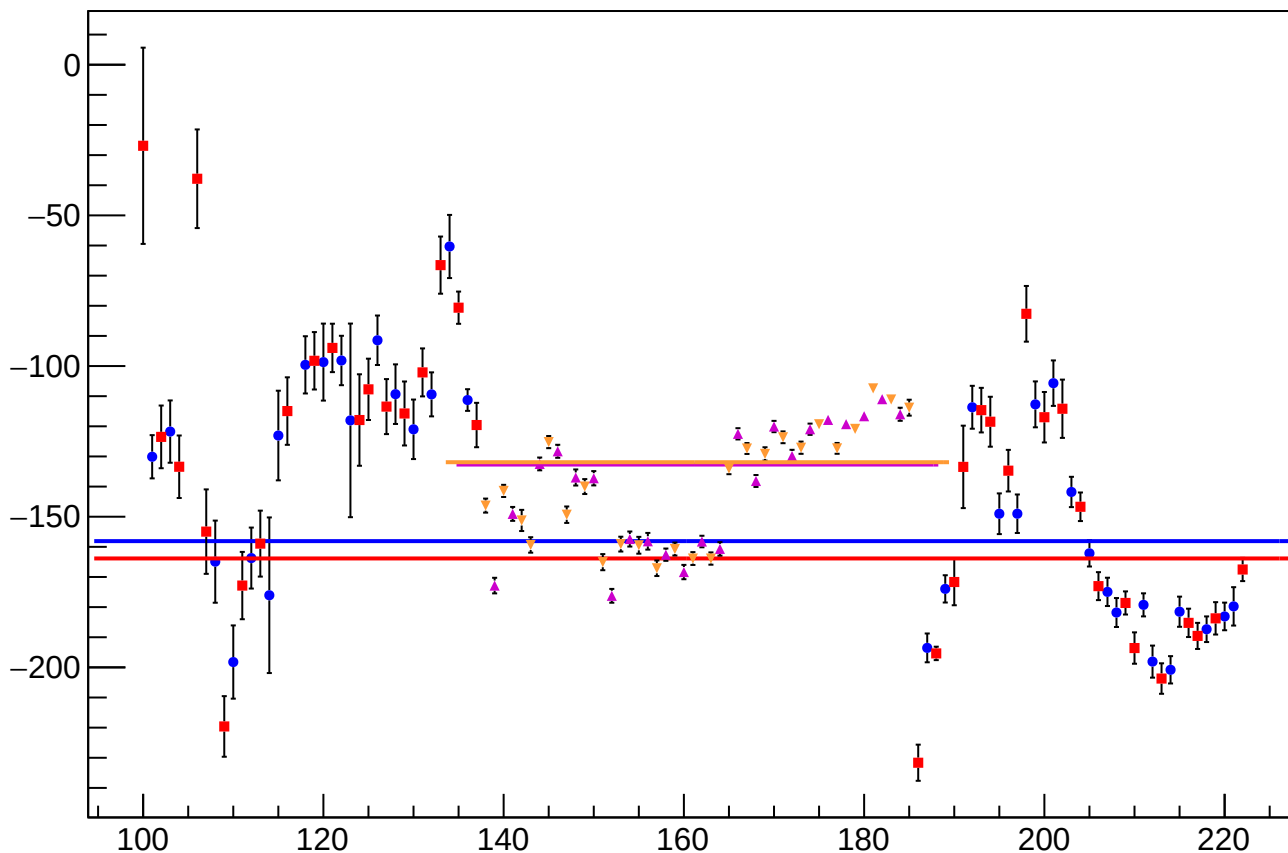
Right: -71.443 ± 0.701 $\chi^2/\text{NDF}: 8811.4/72$

In: -31.040 ± 0.310 $\chi^2/\text{NDF}: 7392.1/57$

Out: -31.120 ± 0.302 $\chi^2/\text{NDF}: 7112.4/62$

All: -31.081 ± 0.216 $\chi^2/\text{NDF}: 14504.5/120$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -158.101 ± 1.041 χ^2/NDF : 1093.6/34

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -163.853 ± 1.010 χ^2/NDF : 1566.5/37

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

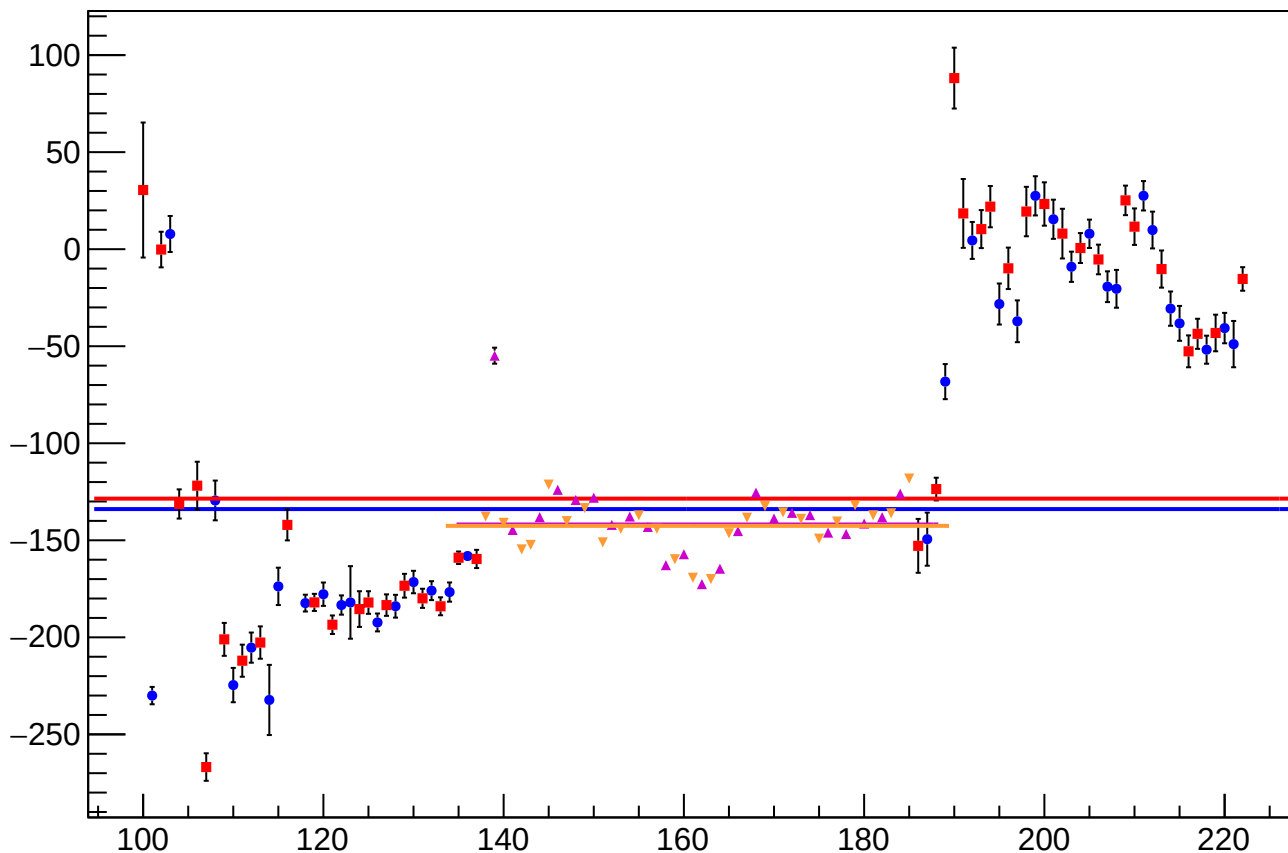
Right: -161.064 ± 0.725 χ^2/NDF : 2675.9/72

In: -135.953 ± 0.373 χ^2/NDF : 4093.7/57

Out: -136.087 ± 0.365 χ^2/NDF : 4876.0/62

All: -136.022 ± 0.261 χ^2/NDF : 8969.8/120

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -133.917 ± 1.094 $\chi^2/\text{NDF}: 4901.4/34$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -128.528 ± 1.136 $\chi^2/\text{NDF}: 5027.8/37$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

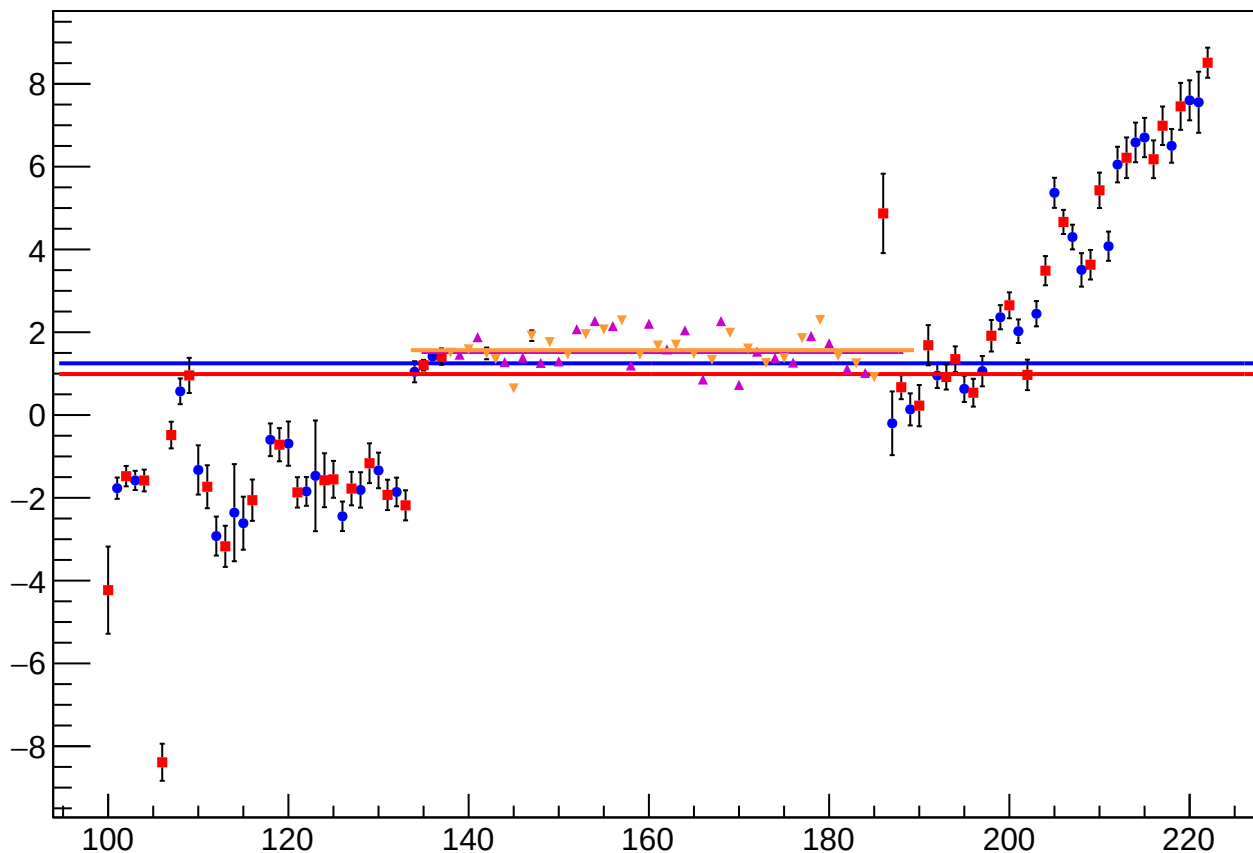
Right: -131.323 ± 0.788 $\chi^2/\text{NDF}: 9940.9/72$

In: -141.066 ± 0.345 $\chi^2/\text{NDF}: 6493.1/57$

Out: -141.321 ± 0.338 $\chi^2/\text{NDF}: 6314.7/62$

All: -141.197 ± 0.241 $\chi^2/\text{NDF}: 12808.0/120$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.249 $\pm$ 0.053 χ^2 /NDF: 2007.1/34

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF:542.8/24

Right Out: 0.989 $\pm$ 0.055 χ^2 /NDF: 2554.5/37

Left In: 1.523 $\pm$ 0.017 χ^2 /NDF:738.5/22

Left: 1.545 $\pm$ 0.012 χ^2 /NDF: 1284.8/47

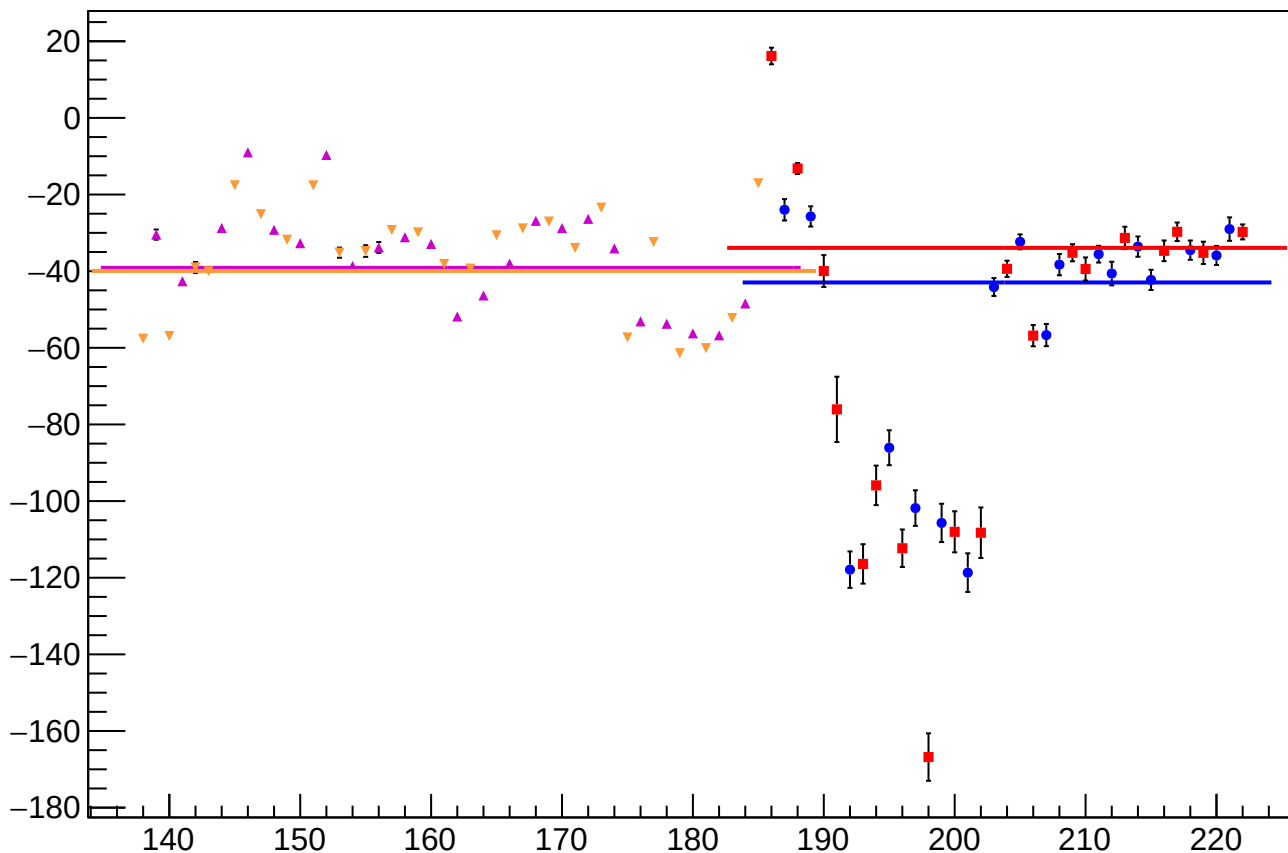
Right: 1.124 $\pm$ 0.038 χ^2 /NDF: 4573.1/72

In: 1.499 $\pm$ 0.016 χ^2 /NDF:2769.7/57

Out: 1.520 $\pm$ 0.016 χ^2 /NDF:3198.2/62

All: 1.510 $\pm$ 0.011 χ^2 /NDF: 5968.8/120

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -42.946 ± 0.673 χ^2/NDF : 1089.7/17

Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24

Right Out: -33.917 ± 0.641 χ^2/NDF : 2288.6/18

Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47

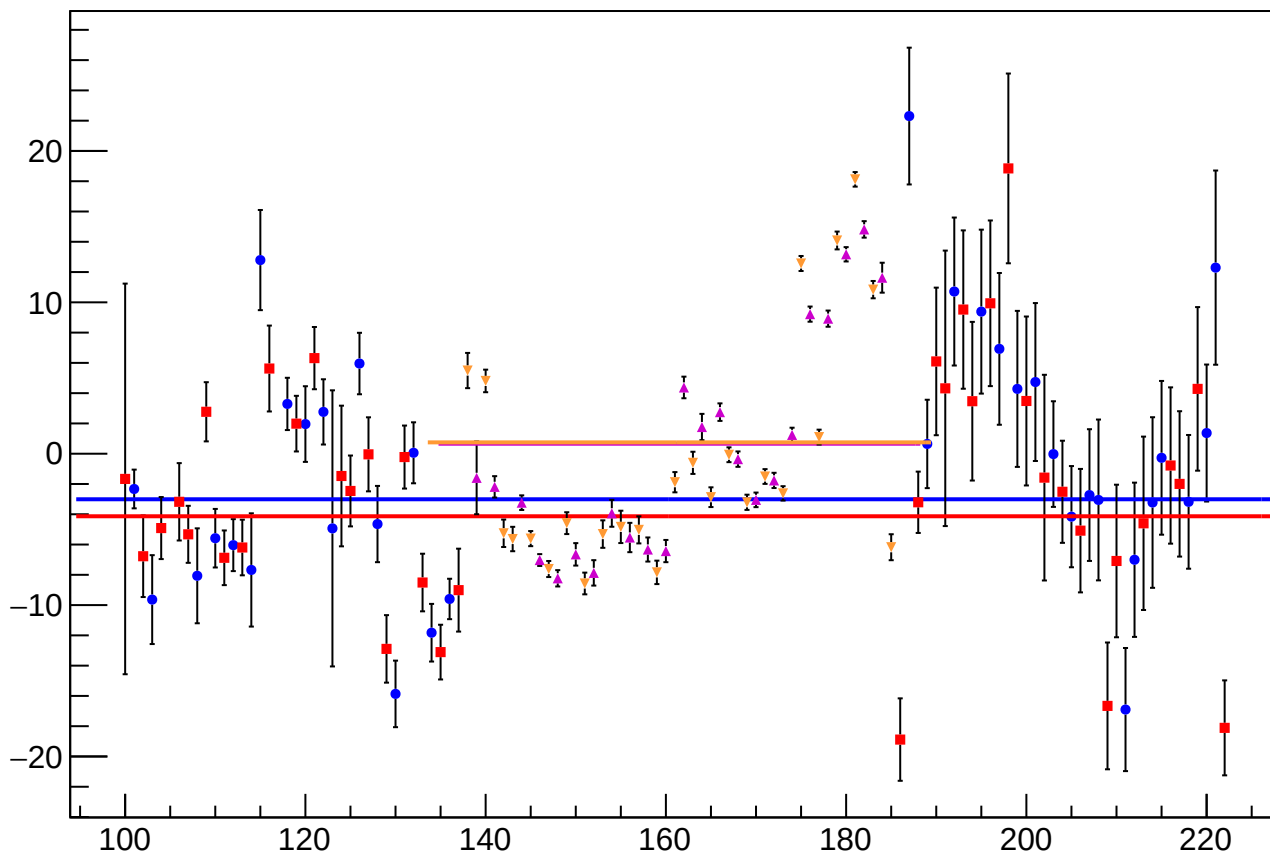
Right: -38.213 ± 0.464 χ^2/NDF : 3472.7/36

In: -39.328 ± 0.151 χ^2/NDF : 9654.6/40

Out: -39.610 ± 0.149 χ^2/NDF : 12178.5/43

All: -39.471 ± 0.106 χ^2/NDF : 21834.9/84

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.010 ± 0.451 $\chi^2/\text{NDF}: 238.2/34$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -4.133 ± 0.448 $\chi^2/\text{NDF}: 220.5/37$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

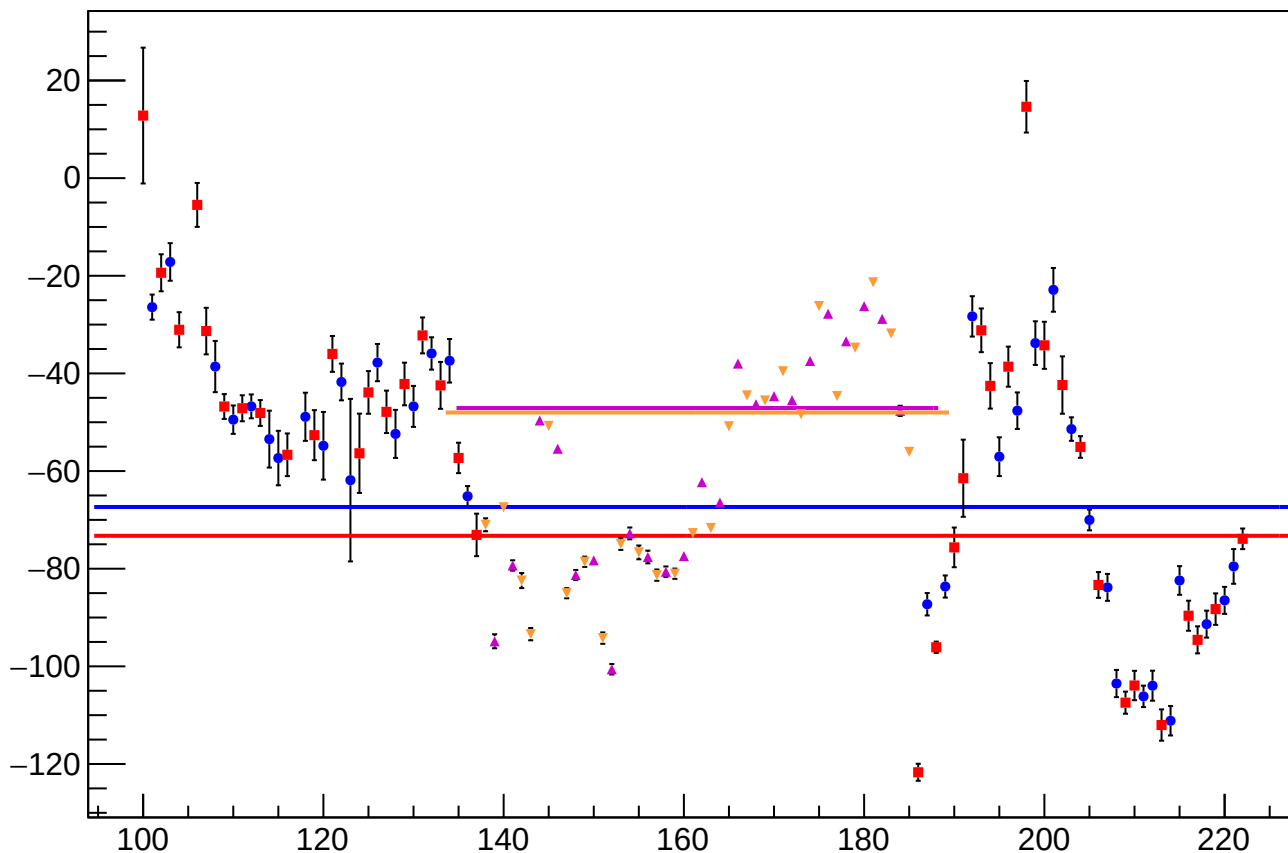
Right: -3.575 ± 0.318 $\chi^2/\text{NDF}: 461.8/72$

In: 0.401 ± 0.120 $\chi^2/\text{NDF}: 3637.6/57$

Out: 0.400 ± 0.120 $\chi^2/\text{NDF}: 4301.8/62$

All: 0.400 ± 0.085 $\chi^2/\text{NDF}: 7939.4/120$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.357 ± 0.535 $\chi^2/\text{NDF}: 2346.4/34$

Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$

Right Out: -73.261 ± 0.499 $\chi^2/\text{NDF}: 3839.1/37$

Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$

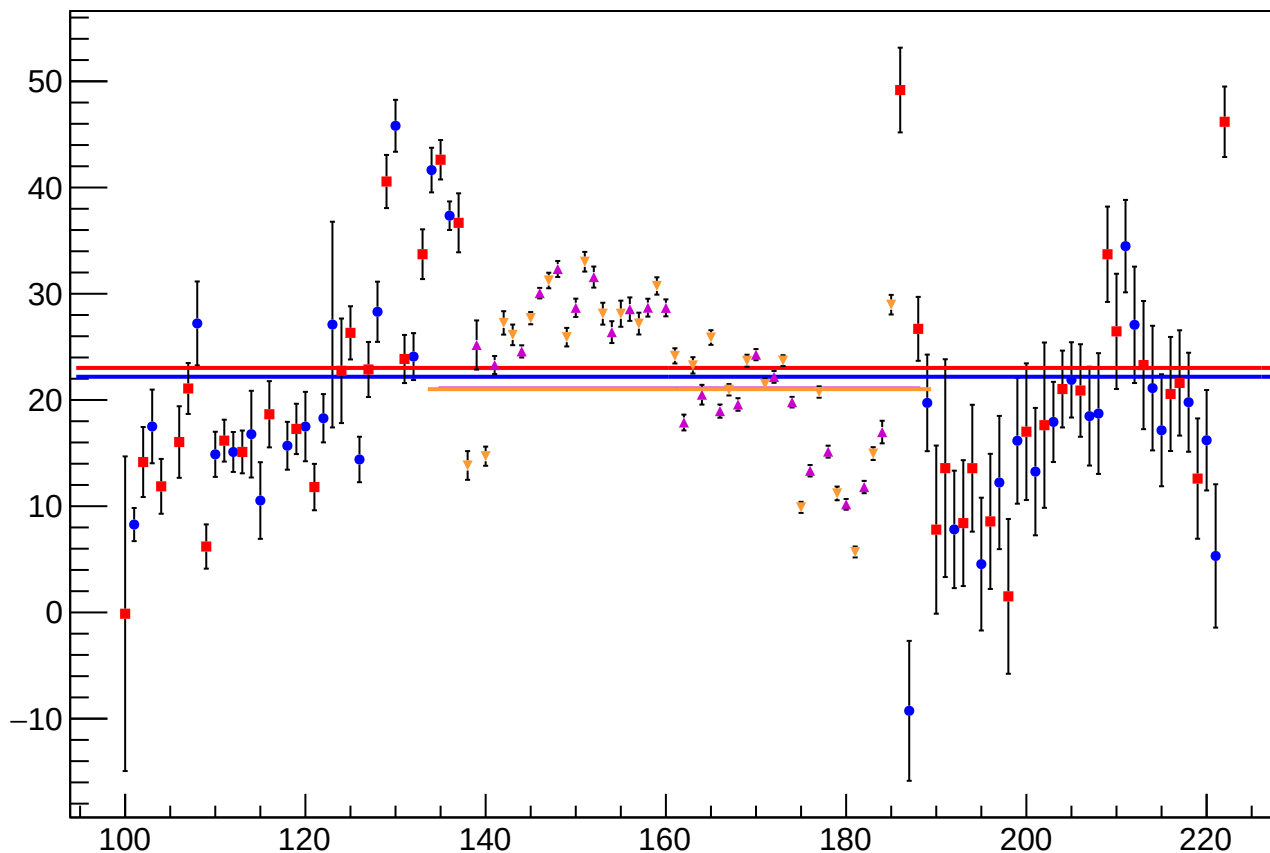
Right: -70.514 ± 0.365 $\chi^2/\text{NDF}: 6250.5/72$

In: -48.659 ± 0.149 $\chi^2/\text{NDF}: 19184.2/57$

Out: -50.219 ± 0.148 $\chi^2/\text{NDF}: 23123.4/62$

All: -49.447 ± 0.105 $\chi^2/\text{NDF}: 42362.8/120$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.186 $\pm$ 0.507 χ^2 /NDF: 523.8/34

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 23.017 $\pm$ 0.512 χ^2 /NDF: 499.6/37

Left In: 21.079 $\pm$ 0.140 χ^2 /NDF:2173.2/22

Left: 21.049 $\pm$ 0.098 χ^2 /NDF: 4972.6/47

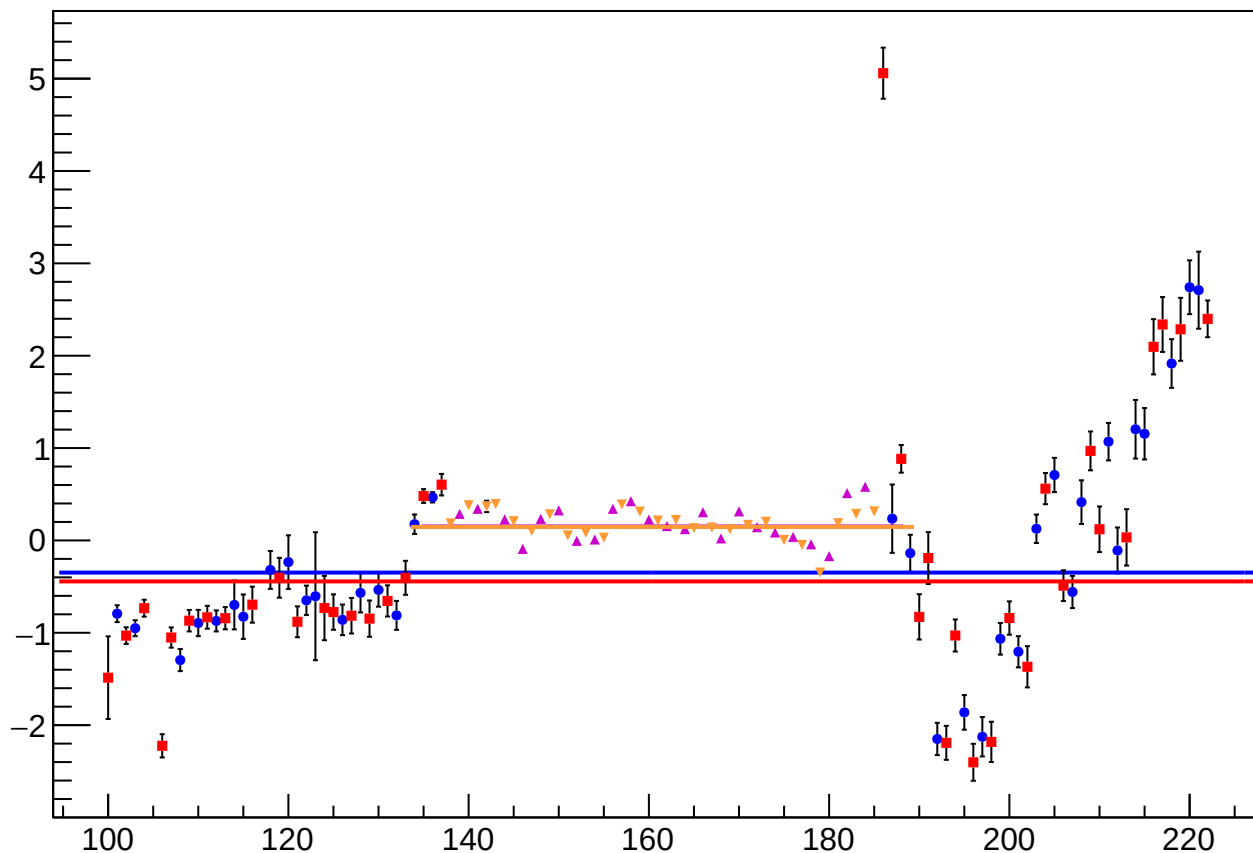
Right: 22.598 $\pm$ 0.360 χ^2 /NDF: 1024.8/72

In: 21.157 $\pm$ 0.135 χ^2 /NDF:2701.5/57

Out: 21.157 $\pm$ 0.134 χ^2 /NDF:3313.1/62

All: 21.157 $\pm$ 0.095 χ^2 /NDF: 6014.6/120

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.348 ± 0.026 $\chi^2/\text{NDF}: 1122.8/34$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.444 ± 0.026 $\chi^2/\text{NDF}: 1856.9/37$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

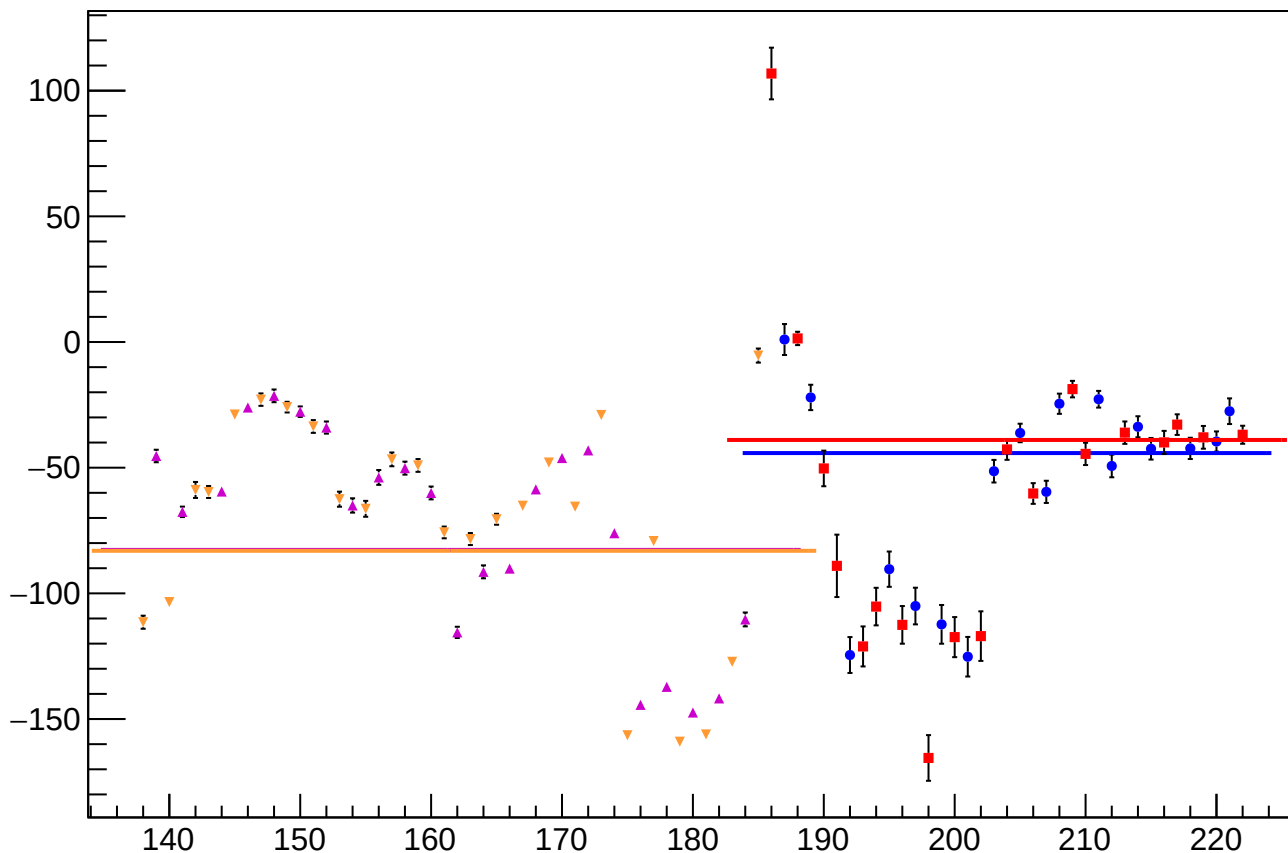
Right: -0.396 ± 0.018 $\chi^2/\text{NDF}: 2986.6/72$

In: 0.122 ± 0.006 $\chi^2/\text{NDF}: 2345.0/57$

Out: 0.112 ± 0.006 $\chi^2/\text{NDF}: 2964.7/62$

All: 0.117 ± 0.004 $\chi^2/\text{NDF}: 5311.0/120$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.184 ± 1.118 χ^2/NDF : 601.4/17

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -38.967 ± 1.110 χ^2/NDF : 1156.8/18

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

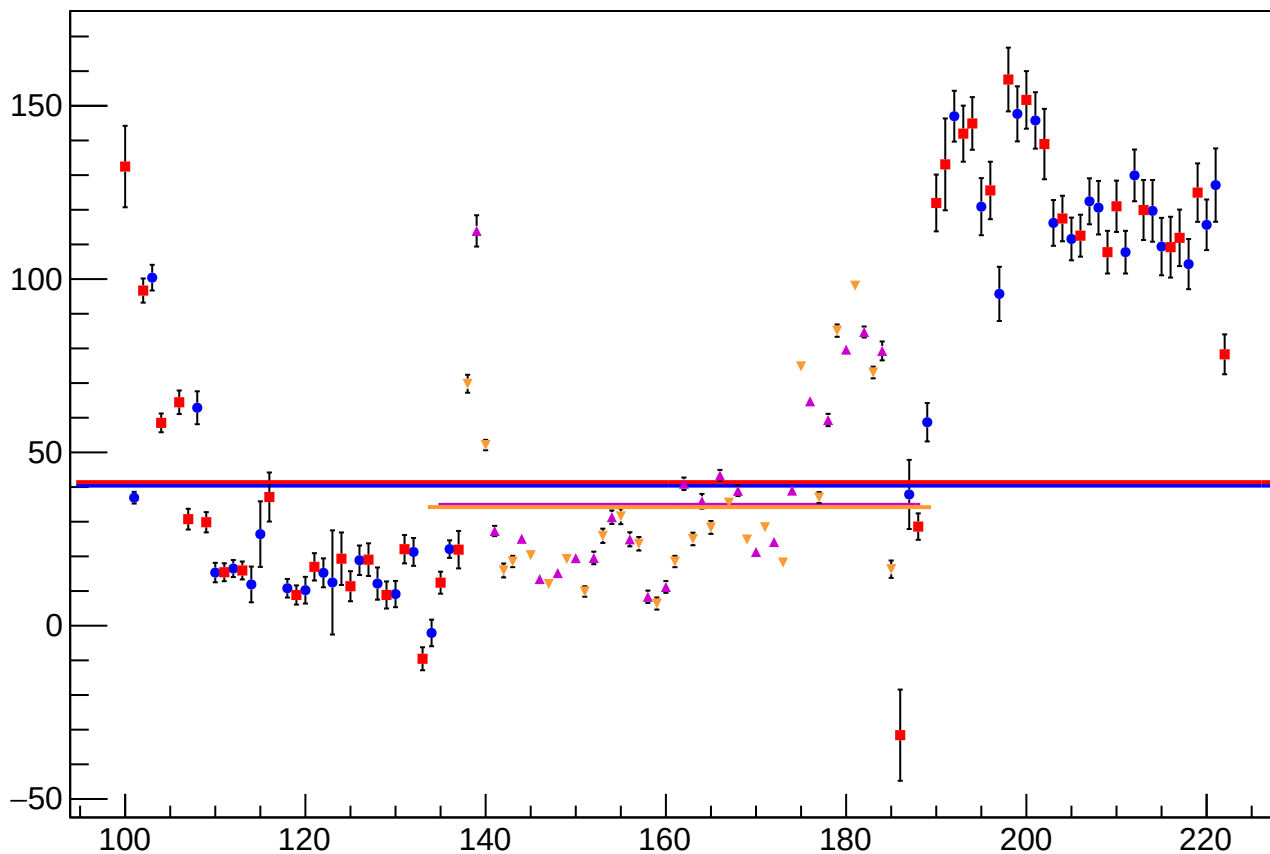
Right: -41.557 ± 0.787 χ^2/NDF : 1769.2/36

In: -78.040 ± 0.389 χ^2/NDF : 12487.0/40

Out: -77.854 ± 0.382 χ^2/NDF : 16366.7/43

All: -77.945 ± 0.272 χ^2/NDF : 28853.9/84

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 40.418 $\pm$ 0.732 χ^2 /NDF: 2954.7/34

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF: 6192.6/24

Right Out: 41.420 $\pm$ 0.729 χ^2 /NDF: 3223.1/37

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF: 4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

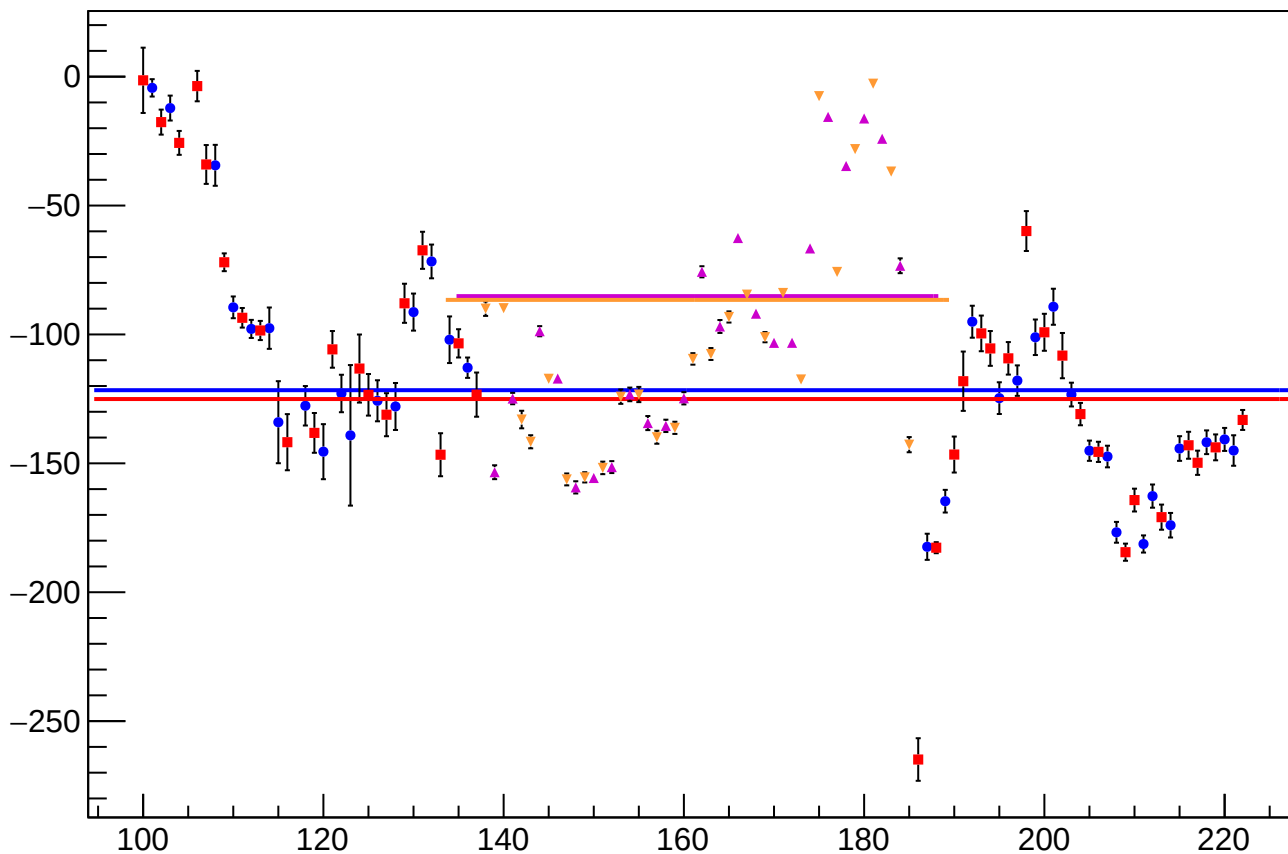
Right: 40.921 $\pm$ 0.517 χ^2 /NDF: 6178.7/72

In: 35.802 $\pm$ 0.300 χ^2 /NDF: 7718.6/57

Out: 35.383 $\pm$ 0.293 χ^2 /NDF: 9497.4/62

All: 35.588 $\pm$ 0.210 χ^2 /NDF: 17217.0/120

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -121.624 ± 0.879 χ^2/NDF : 3200.8/34

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -125.059 ± 0.841 χ^2/NDF : 3803.2/37

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

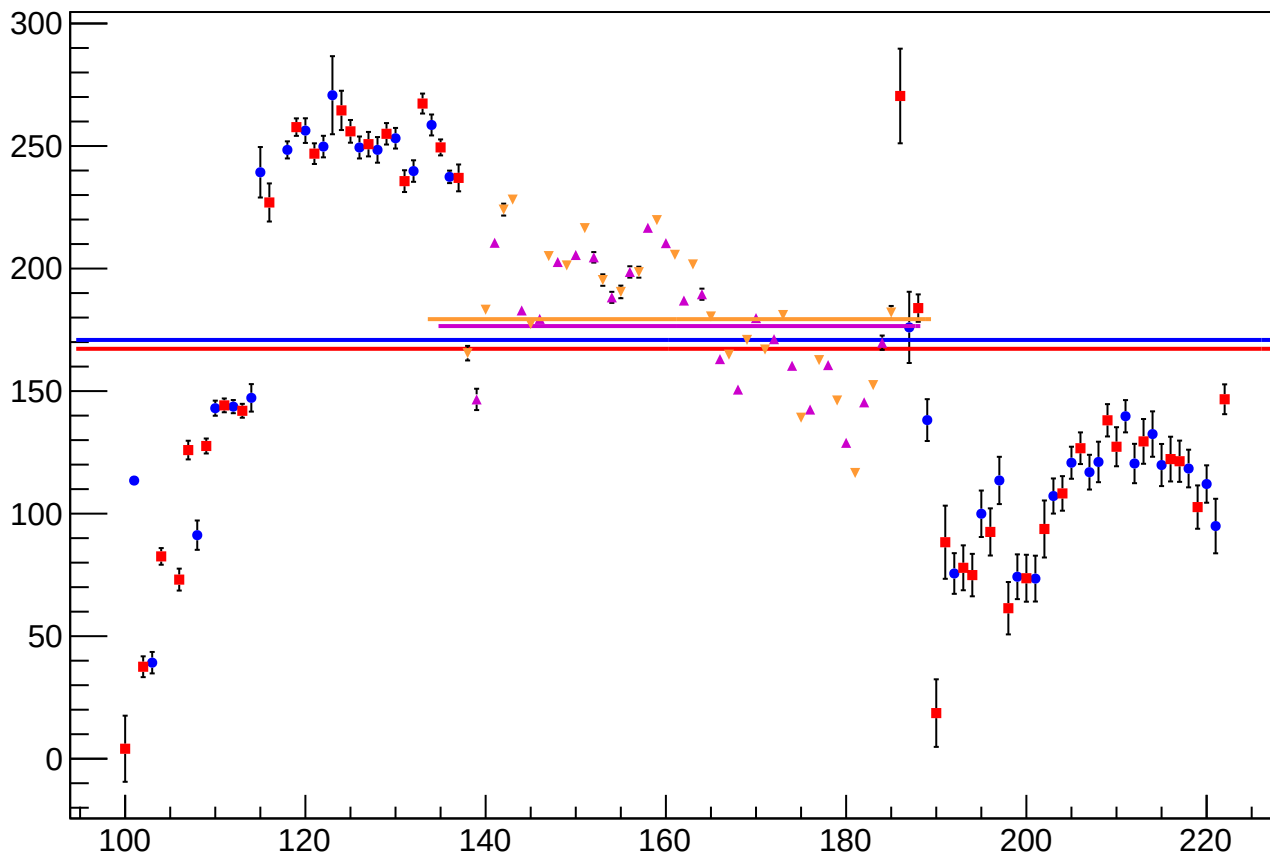
Right: -123.417 ± 0.608 χ^2/NDF : 7012.0/72

In: -91.782 ± 0.375 χ^2/NDF : 17450.4/57

Out: -93.931 ± 0.367 χ^2/NDF : 20010.3/62

All: -92.879 ± 0.263 χ^2/NDF : 37477.4/120

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 170.873 $\pm$ 0.833 χ^2 /NDF: 6462.0/34

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 167.256 $\pm$ 0.834 χ^2 /NDF: 7442.4/37

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

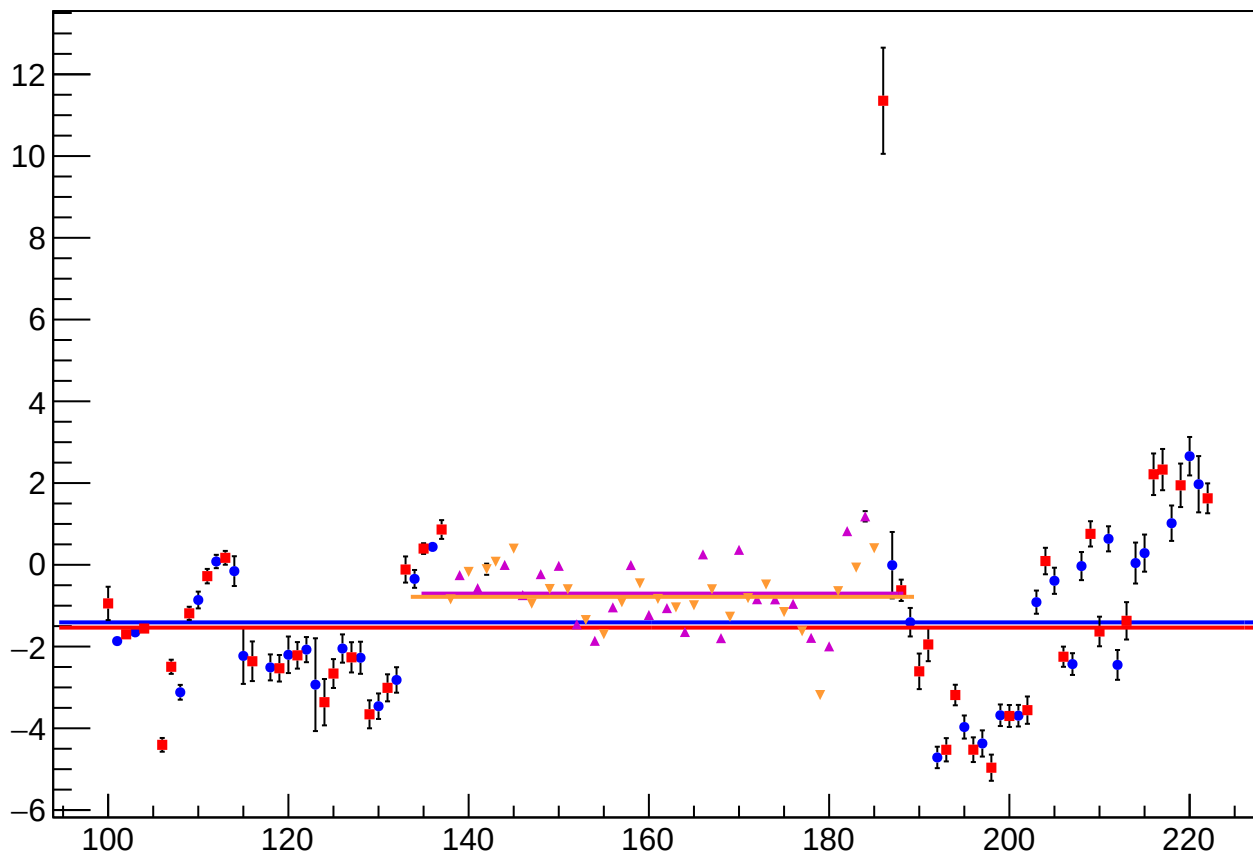
Right: 169.068 $\pm$ 0.589 χ^2 /NDF: 13913.8/72

In: 175.594 $\pm$ 0.339 χ^2 /NDF: 10926.5/57

Out: 177.443 $\pm$ 0.332 χ^2 /NDF: 13601.8/62

All: 176.537 $\pm$ 0.237 χ^2 /NDF: 24543.5/120

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.408 ± 0.041 χ^2/NDF : 1367.3/34

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.537 ± 0.039 χ^2/NDF : 1834.2/37

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

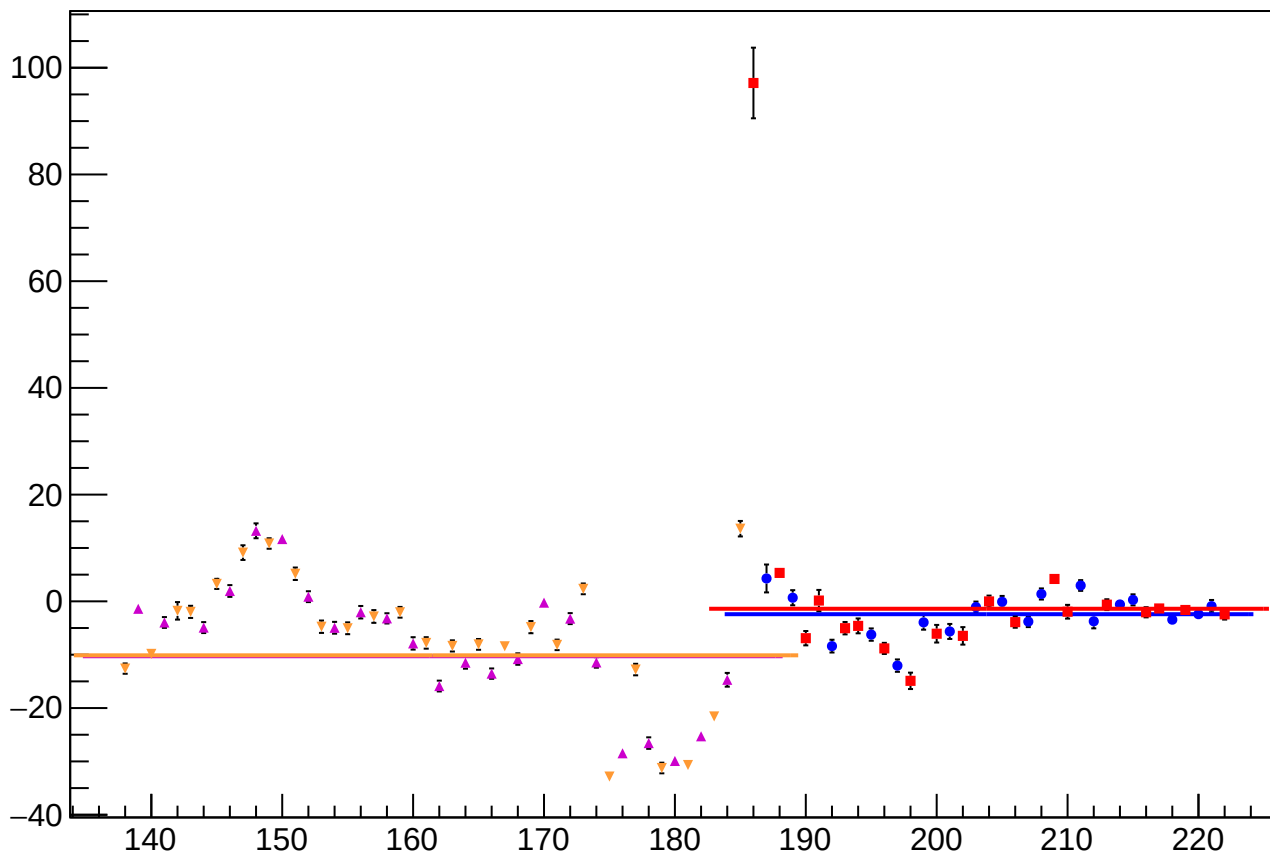
Right: -1.475 ± 0.029 χ^2/NDF : 3206.5/72

In: -0.806 ± 0.016 χ^2/NDF : 4024.6/57

Out: -0.897 ± 0.015 χ^2/NDF : 3914.9/62

All: -0.852 ± 0.011 χ^2/NDF : 7956.5/120

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.411 ± 0.263 χ^2/NDF : 186.8/17

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.392 ± 0.252 χ^2/NDF : 560.6/18

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

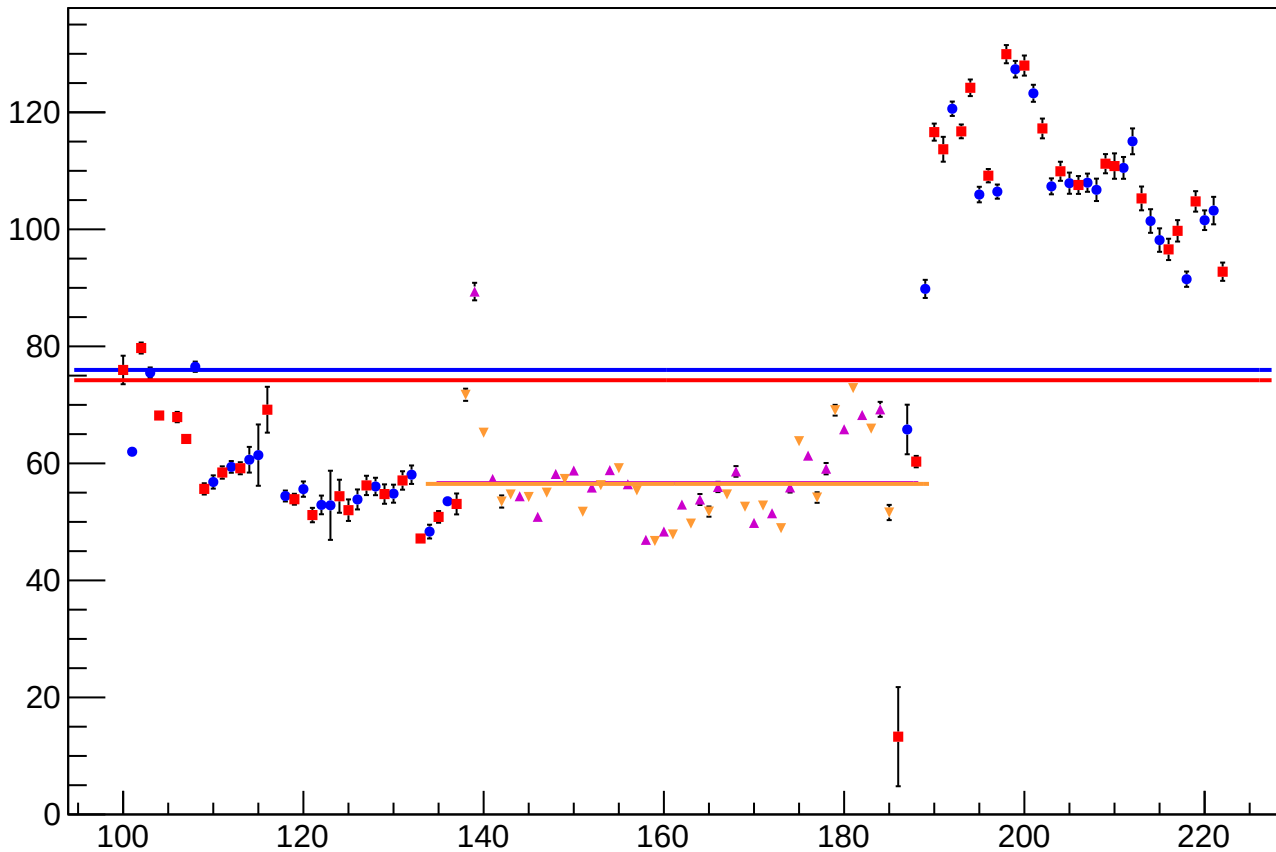
Right: -1.880 ± 0.182 χ^2/NDF : 755.2/36

In: -7.307 ± 0.162 χ^2/NDF : 4194.8/40

Out: -6.718 ± 0.157 χ^2/NDF : 5429.9/43

All: -7.004 ± 0.113 χ^2/NDF : 9631.5/84

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 75.973+/-0.216 χ^2/NDF : 12205.7/34

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 74.215+/-0.204 χ^2/NDF : 15491.0/37

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

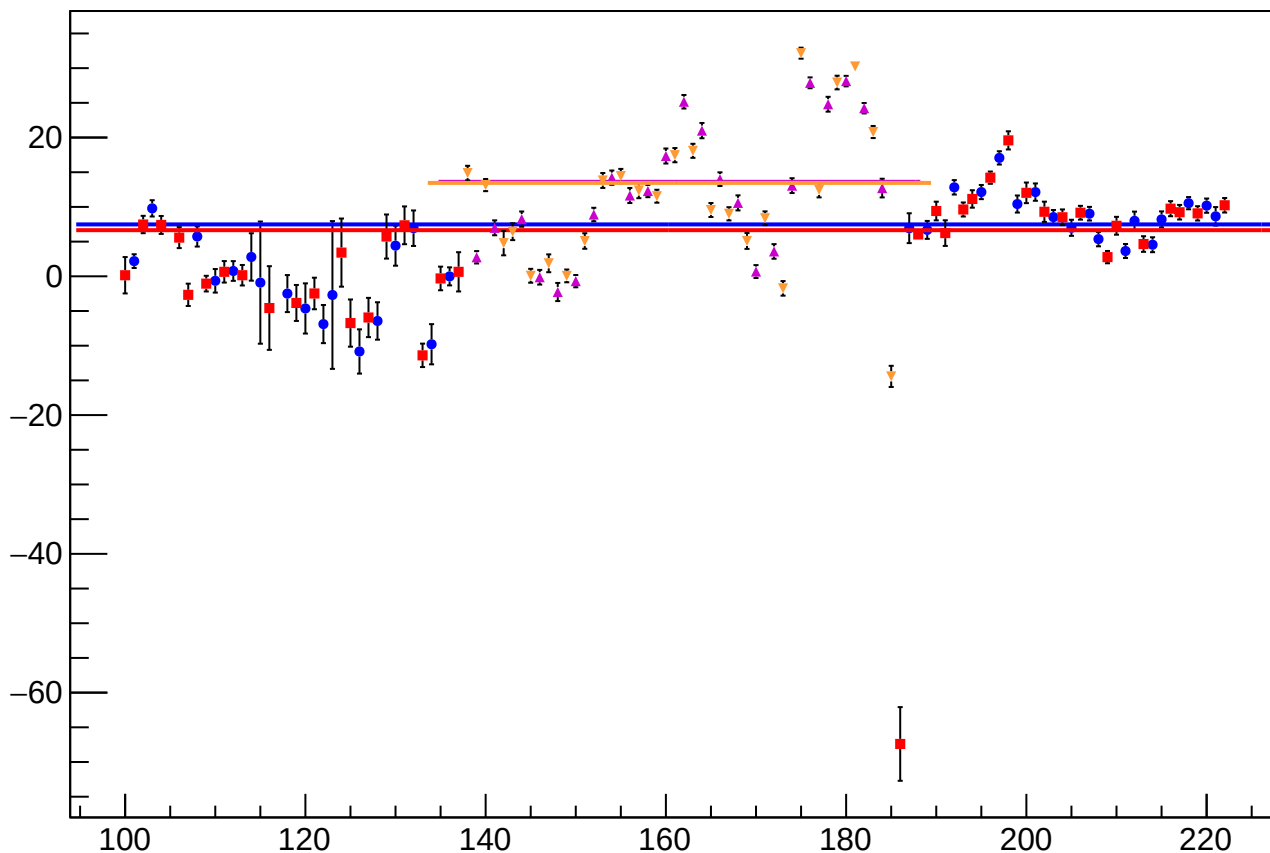
Right: 75.042+/-0.148 χ^2/NDF : 27731.7/72

In: 63.763+/-0.131 χ^2/NDF :18868.9/57

Out: 63.193+/-0.125 χ^2/NDF :22160.5/62

All: 63.465+/-0.091 χ^2/NDF : 41039.4/120

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.479 ± 0.227 $\chi^2/\text{NDF}: 482.3/34$

Left Out: 13.462 ± 0.202 $\chi^2/\text{NDF}: 2736.3/24$

Right Out: 6.649 ± 0.210 $\chi^2/\text{NDF}: 800.9/37$

Left In: 13.620 ± 0.204 $\chi^2/\text{NDF}: 2315.4/22$

Left: 13.540 ± 0.144 $\chi^2/\text{NDF}: 5052.0/47$

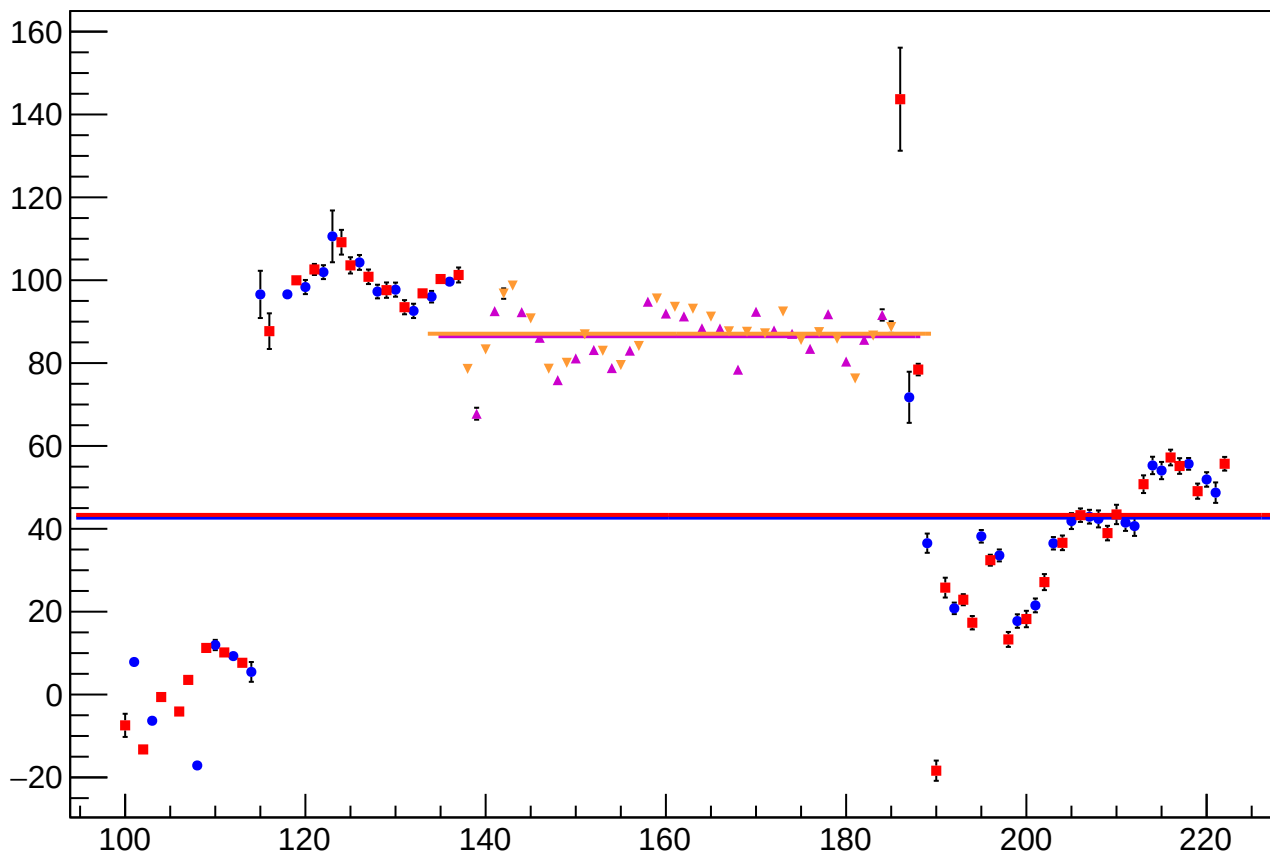
Right: 7.033 ± 0.154 $\chi^2/\text{NDF}: 1290.5/72$

In: 10.868 ± 0.152 $\chi^2/\text{NDF}: 3202.0/57$

Out: 10.203 ± 0.146 $\chi^2/\text{NDF}: 4084.1/62$

All: 10.521 ± 0.105 $\chi^2/\text{NDF}: 7296.1/120$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.699 $\pm$ 0.248 χ^2 /NDF: 25671.5/34

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 43.355 $\pm$ 0.237 χ^2 /NDF: 30944.9/37

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

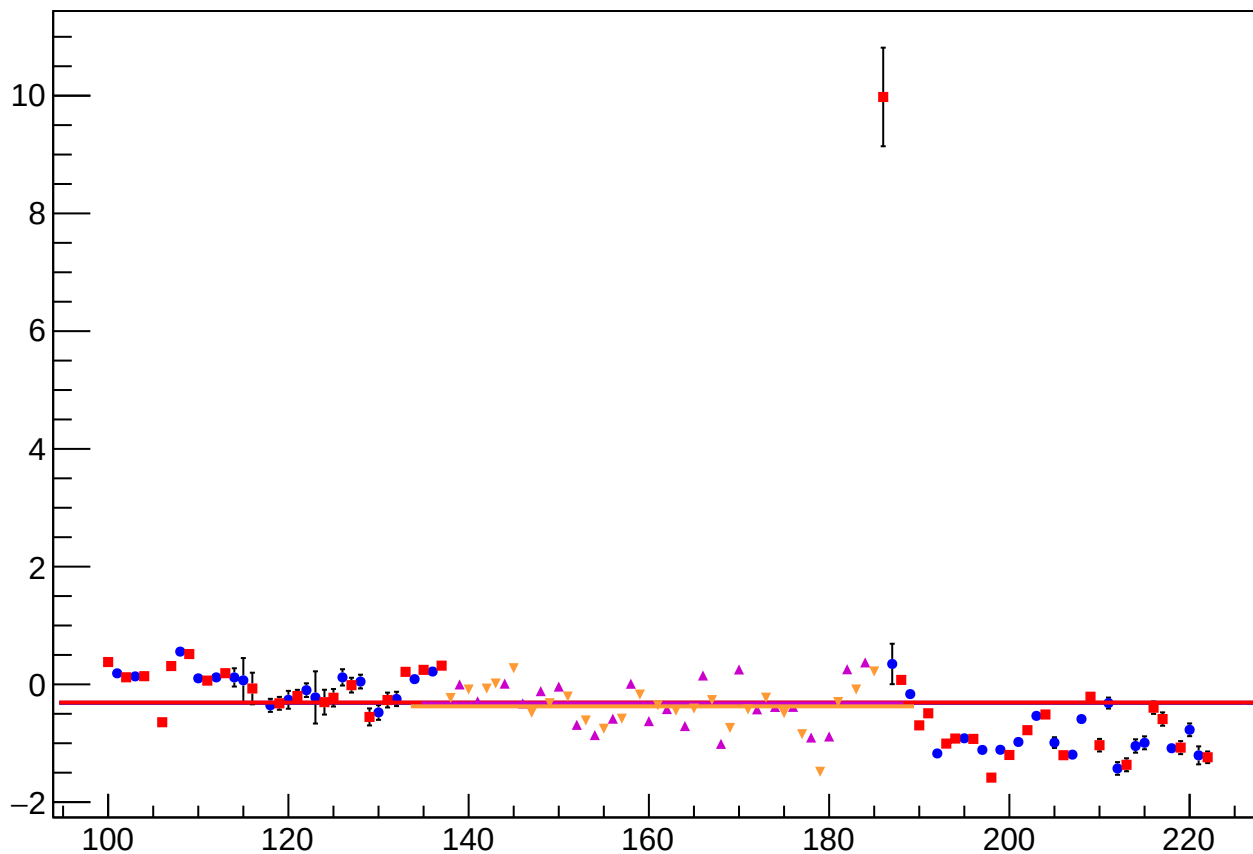
Right: 43.041 $\pm$ 0.171 χ^2 /NDF: 56620.0/72

In: 70.838 $\pm$ 0.148 χ^2 /NDF:46770.7/57

Out: 71.218 $\pm$ 0.143 χ^2 /NDF:53670.1/62

All: 71.035 $\pm$ 0.103 χ^2 /NDF: 100444.2/120

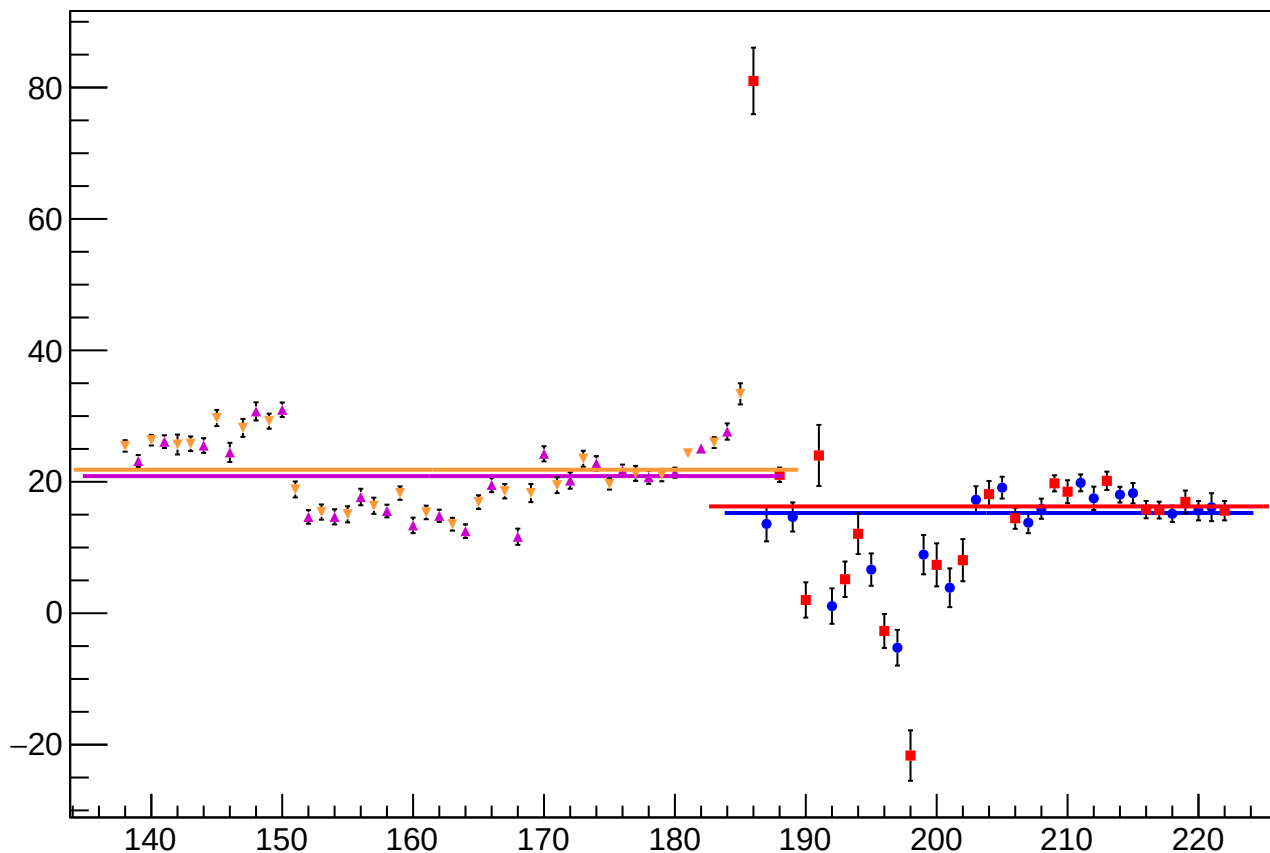
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.313 ± 0.010 χ^2/NDF : 3548.9/34
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.308 ± 0.010 χ^2/NDF : 3850.5/37
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.311 ± 0.007 χ^2/NDF : 7399.5/72
 In: -0.321 ± 0.006 χ^2/NDF : 5833.8/57
 Out: -0.347 ± 0.006 χ^2/NDF : 5545.0/62
 All: -0.334 ± 0.004 χ^2/NDF : 11387.3/120

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.256 $\pm$ 0.416 χ^2/NDF : 147.7/17

Left Out: 21.836 $\pm$ 0.210 χ^2/NDF : 524.3/24

Right Out: 16.255 $\pm$ 0.415 χ^2/NDF : 417.4/18

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

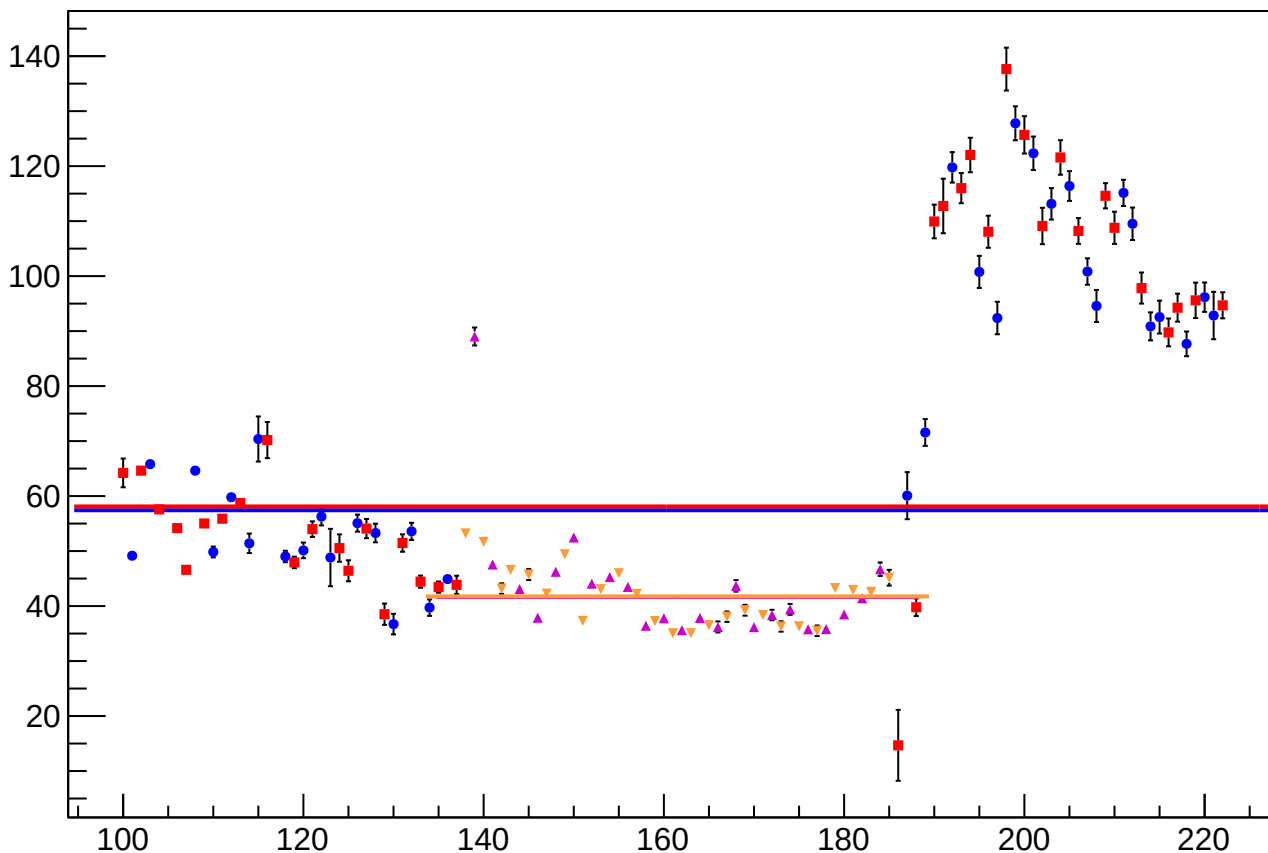
Right: 15.757 $\pm$ 0.294 χ^2/NDF : 568.0/36

In: 19.670 $\pm$ 0.192 χ^2/NDF : 867.5/40

Out: 20.700 $\pm$ 0.187 χ^2/NDF : 1085.9/43

All: 20.198 $\pm$ 0.134 χ^2/NDF : 1968.2/84

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.425 $\pm$ 0.201 χ^2 /NDF: 6525.5/34

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 58.113 $\pm$ 0.214 χ^2 /NDF: 6811.5/37

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

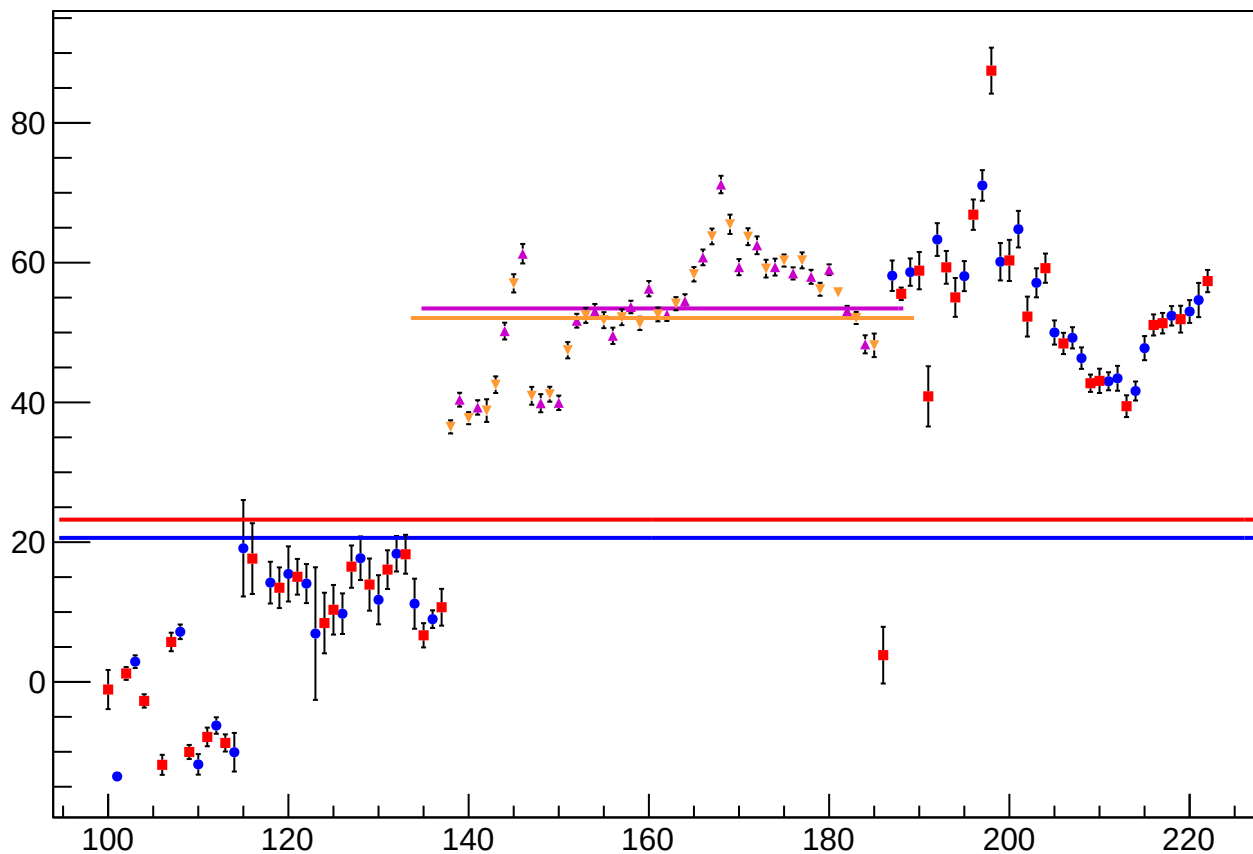
Right: 57.748 $\pm$ 0.146 χ^2 /NDF: 13342.5/72

In: 48.393 $\pm$ 0.131 χ^2 /NDF:11664.0/57

Out: 47.882 $\pm$ 0.131 χ^2 /NDF:11490.8/62

All: 48.136 $\pm$ 0.093 χ^2 /NDF: 23162.4/120

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 20.612 $\pm$ 0.276 χ^2 /NDF: 10452.0/34

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 23.224 $\pm$ 0.277 χ^2 /NDF: 10040.1/37

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

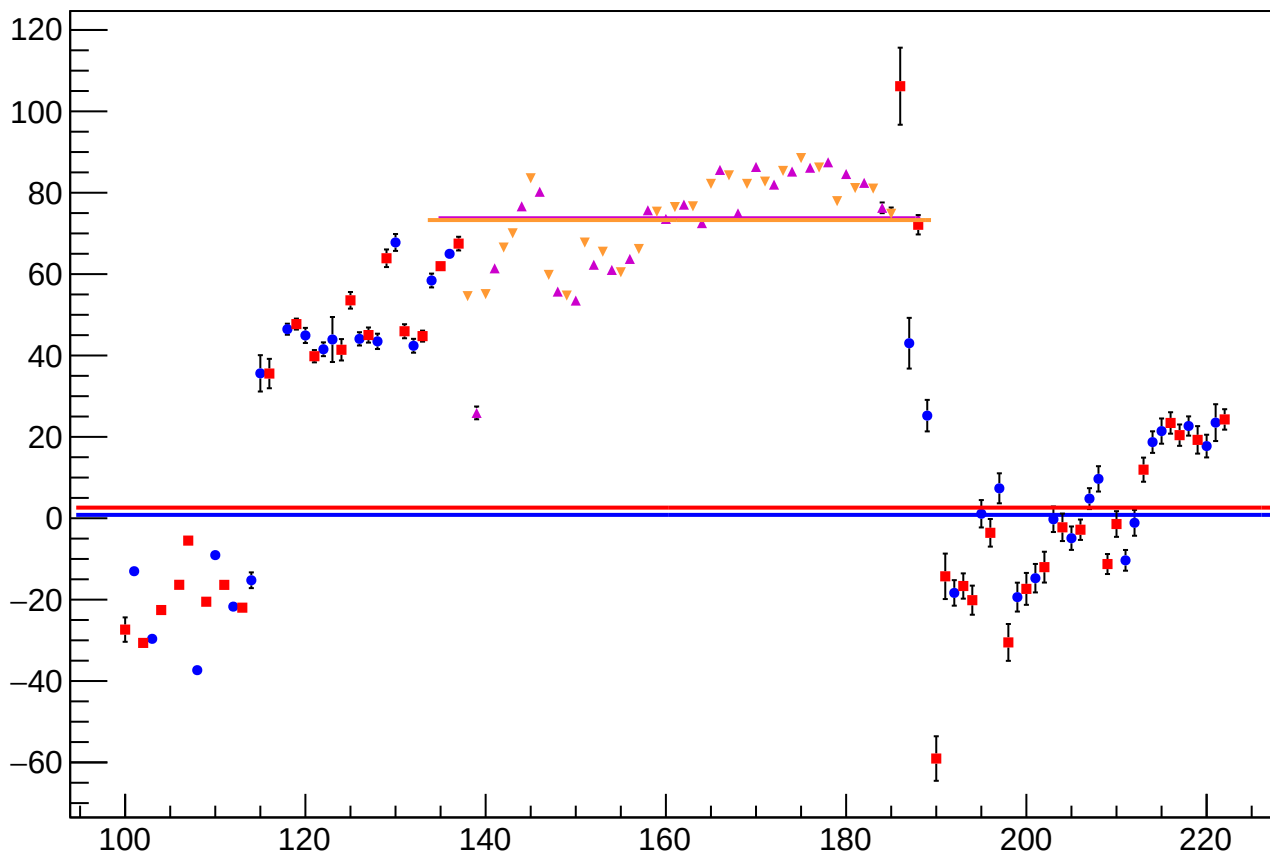
Right: 21.911 $\pm$ 0.195 χ^2 /NDF: 20536.7/72

In: 41.004 $\pm$ 0.170 χ^2 /NDF:20430.6/57

Out: 41.556 $\pm$ 0.167 χ^2 /NDF:18373.5/62

All: 41.284 $\pm$ 0.119 χ^2 /NDF: 38809.5/120

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.831 ± 0.235 $\chi^2/\text{NDF}: 18674.2/34$

Left Out: 73.284 ± 0.187 $\chi^2/\text{NDF}: 3144.2/24$

Right Out: 2.616 ± 0.251 $\chi^2/\text{NDF}: 16961.2/37$

Left In: 73.730 ± 0.194 $\chi^2/\text{NDF}: 3775.8/22$

Left: 73.498 ± 0.135 $\chi^2/\text{NDF}: 6922.7/47$

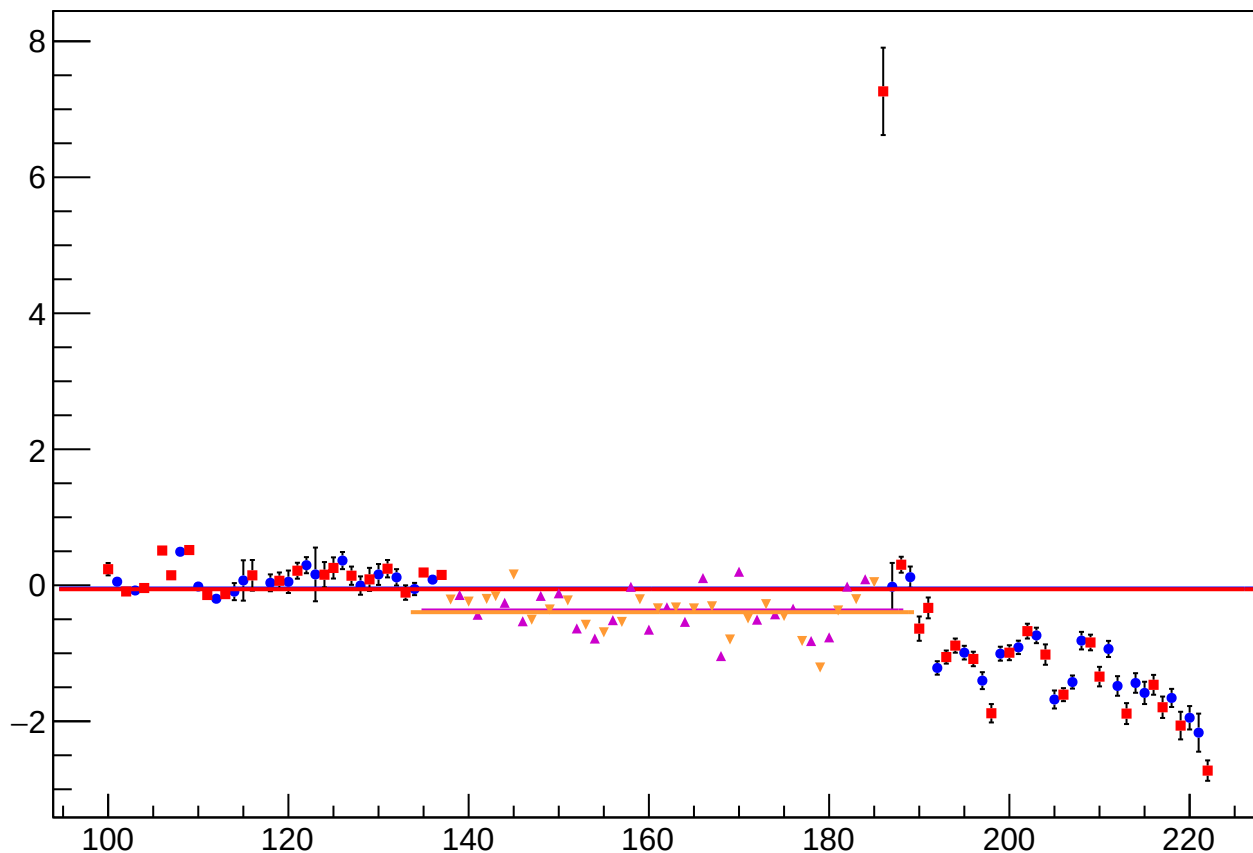
Right: 1.665 ± 0.171 $\chi^2/\text{NDF}: 35662.3/72$

In: 44.077 ± 0.150 $\chi^2/\text{NDF}: 79688.4/57$

Out: 48.040 ± 0.150 $\chi^2/\text{NDF}: 71203.3/62$

All: 46.057 ± 0.106 $\chi^2/\text{NDF}: 151242.0/120$

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.048 ± 0.010 χ^2/NDF : 2189.5/34

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.058 ± 0.010 χ^2/NDF : 2466.7/37

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

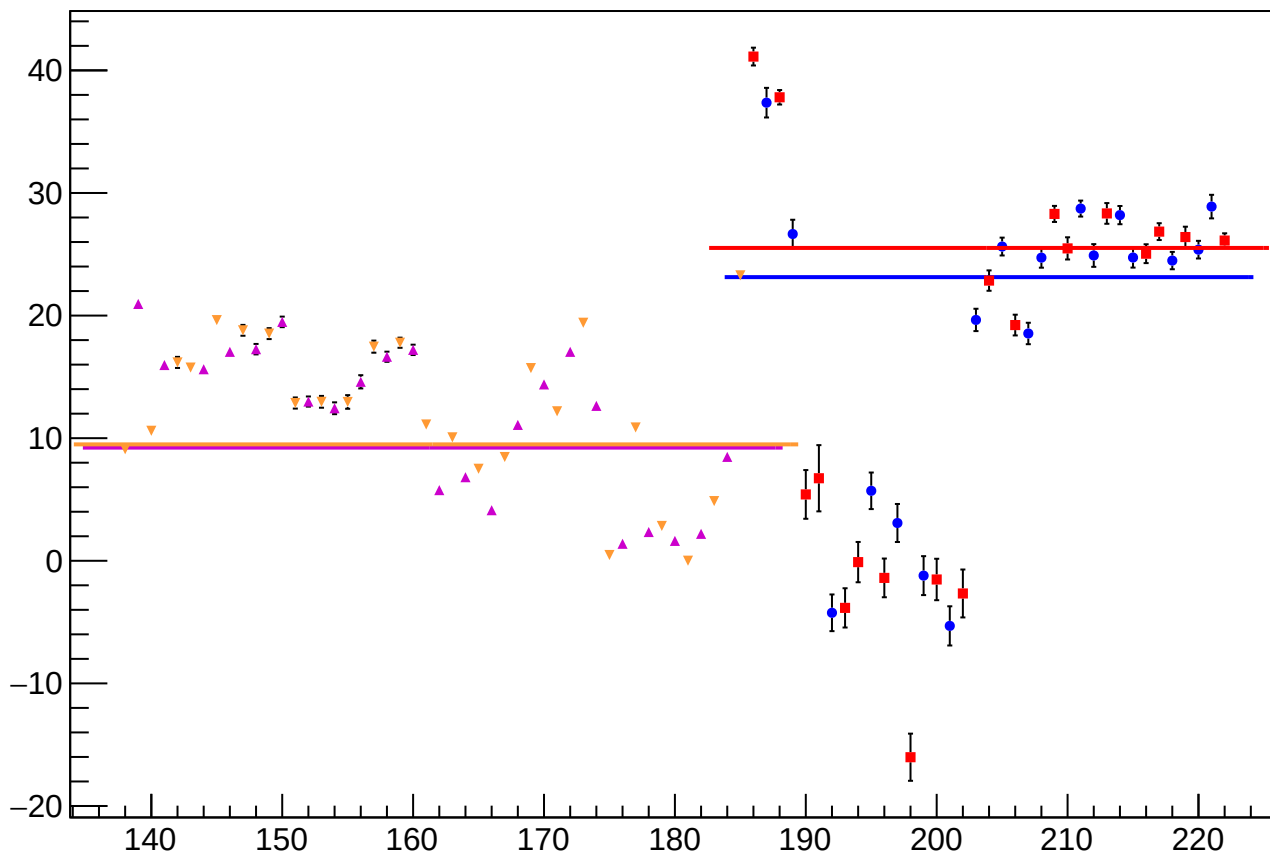
Right: -0.053 ± 0.007 χ^2/NDF : 4656.7/72

In: -0.237 ± 0.007 χ^2/NDF : 4072.8/57

Out: -0.258 ± 0.007 χ^2/NDF : 4050.4/62

All: -0.248 ± 0.005 χ^2/NDF : 8128.5/120

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 23.136 $\pm$ 0.217 χ^2 /NDF: 1572.7/17

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 25.518 $\pm$ 0.208 χ^2 /NDF: 2945.5/18

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

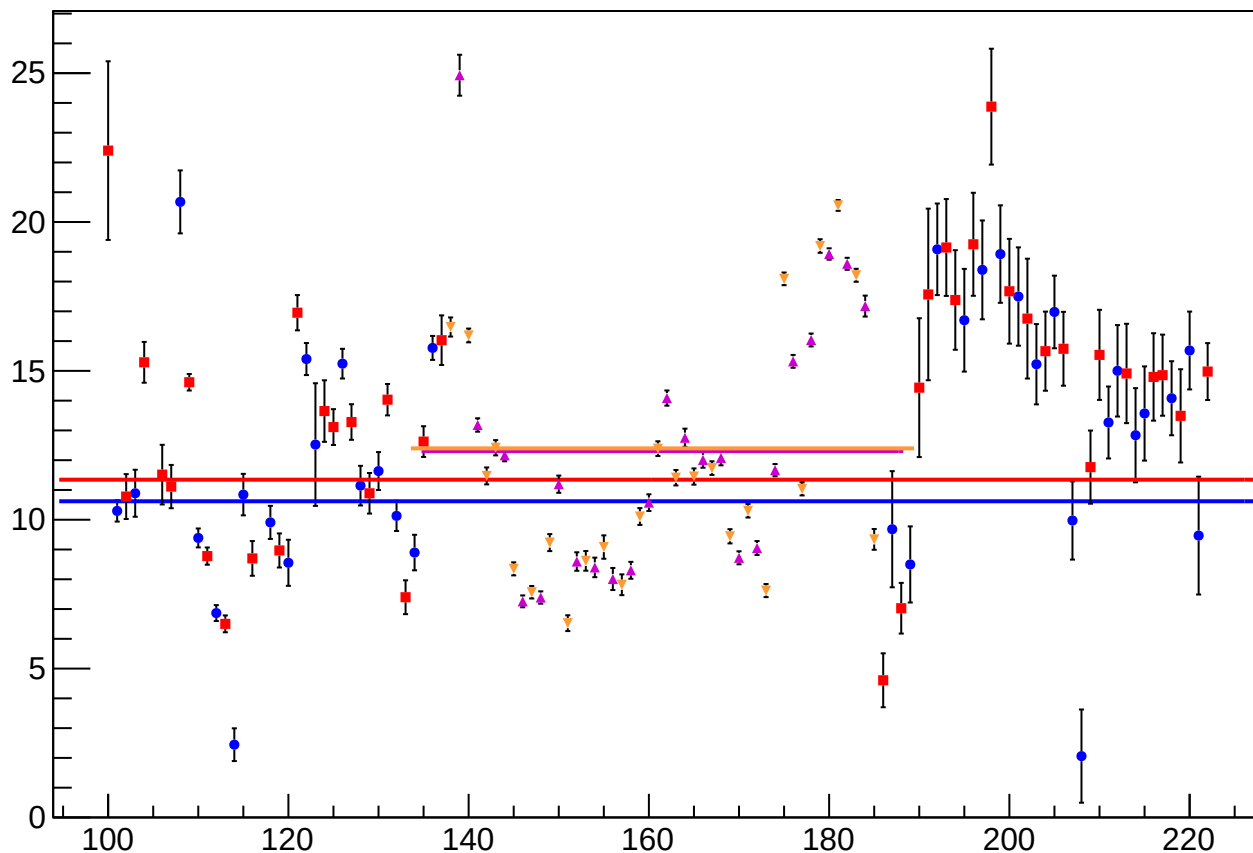
Right: 24.376 $\pm$ 0.150 χ^2 /NDF: 4581.0/36

In: 10.313 $\pm$ 0.061 χ^2 /NDF:16095.9/40

Out: 10.772 $\pm$ 0.059 χ^2 /NDF:21007.9/43

All: 10.549 $\pm$ 0.042 χ^2 /NDF: 37133.4/84

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.620 $\pm$ 0.113 χ^2 /NDF: 1096.9/34

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.345 $\pm$ 0.109 χ^2 /NDF: 1091.4/37

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

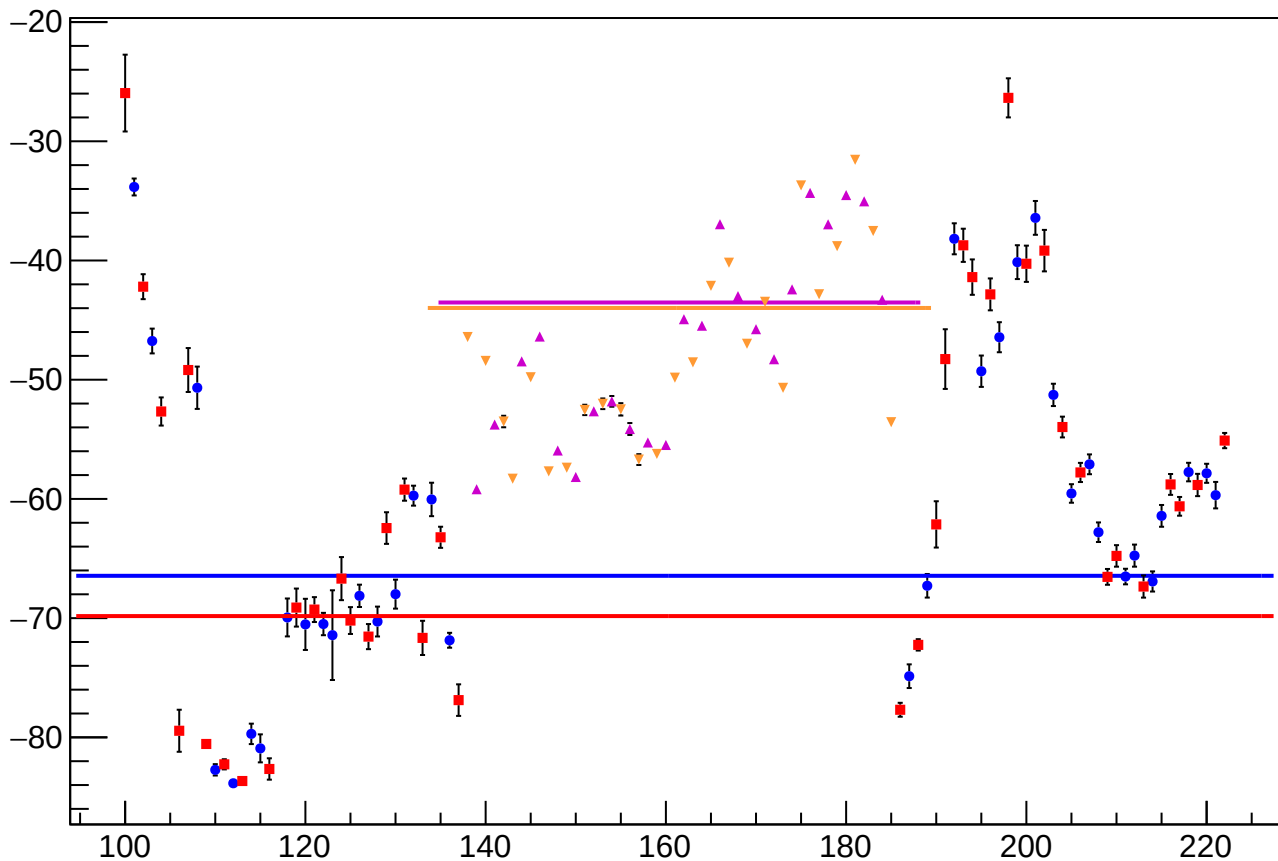
Right: 10.995 $\pm$ 0.079 χ^2 /NDF: 2209.6/72

In: 12.020 $\pm$ 0.047 χ^2 /NDF: 6883.4/57

Out: 12.217 $\pm$ 0.045 χ^2 /NDF: 8710.9/62

All: 12.121 $\pm$ 0.032 χ^2 /NDF: 15603.6/120

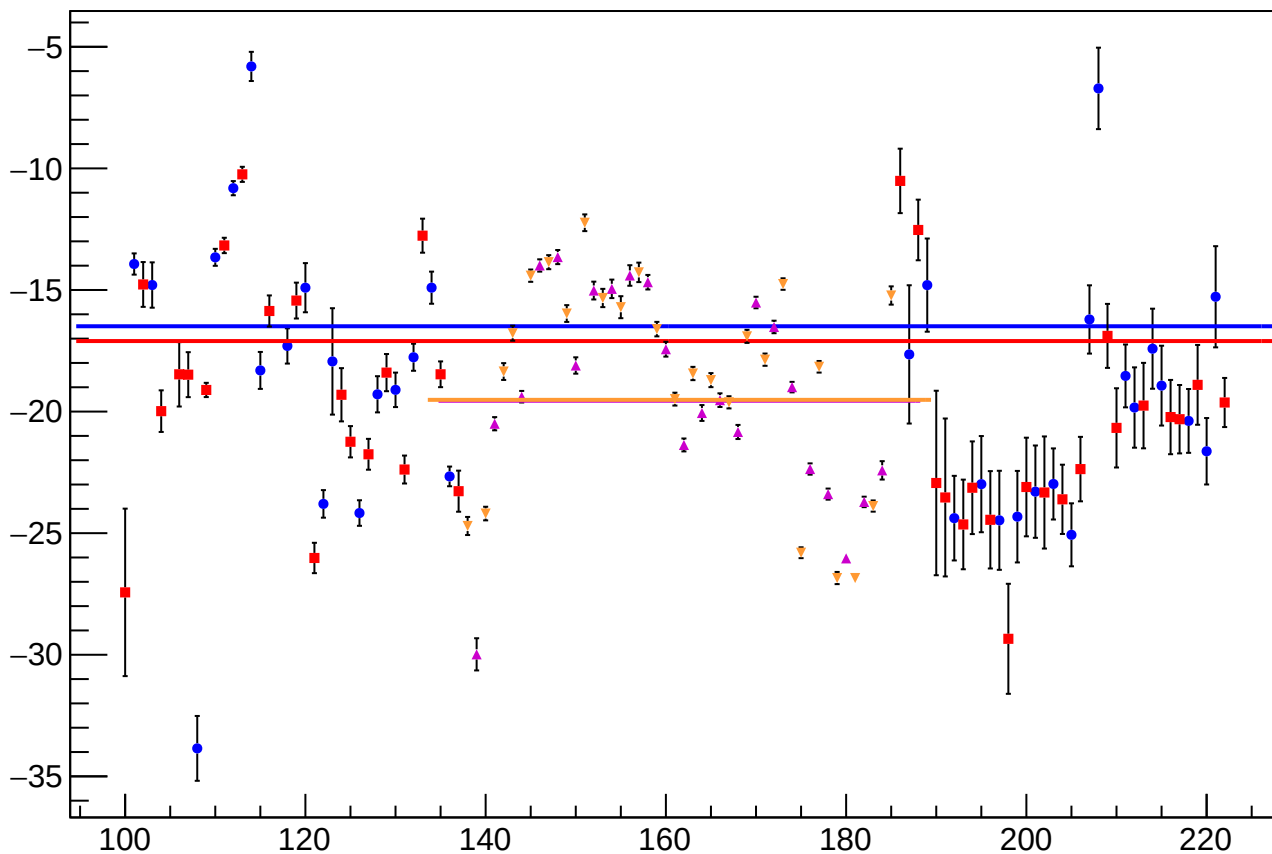
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.449 ± 0.147 $\chi^2/\text{NDF}: 8962.3/34$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -69.828 ± 0.135 $\chi^2/\text{NDF}: 9172.3/37$
 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: -68.286 ± 0.100 $\chi^2/\text{NDF}: 18420.6/72$
 In: -47.099 ± 0.058 $\chi^2/\text{NDF}: 44673.7/57$
 Out: -48.478 ± 0.056 $\chi^2/\text{NDF}: 57200.7/62$
 All: -47.811 ± 0.040 $\chi^2/\text{NDF}: 102164.6/120$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.492 ± 0.126 $\chi^2/\text{NDF}: 1837.8/34$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.100 ± 0.121 $\chi^2/\text{NDF}: 1408.1/37$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

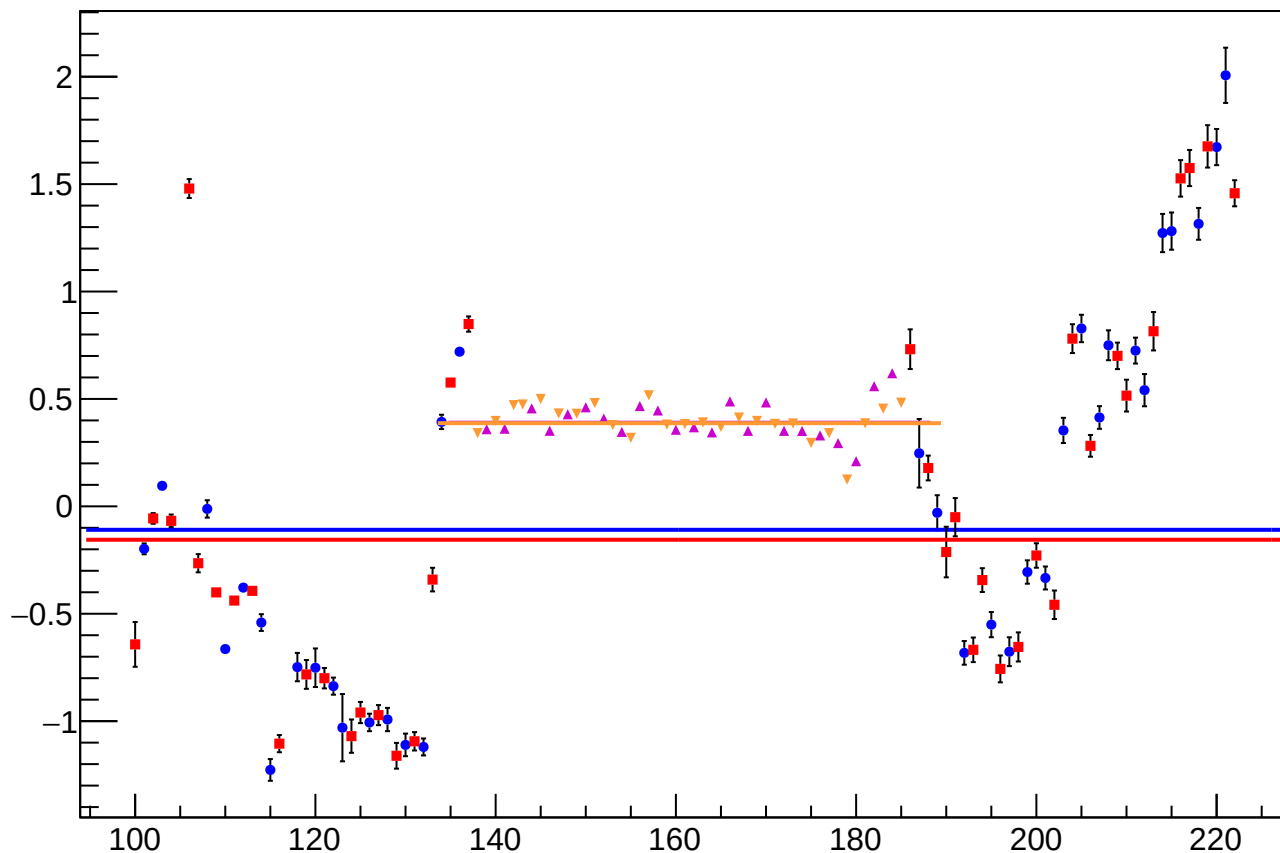
Right: -16.807 ± 0.087 $\chi^2/\text{NDF}: 3258.1/72$

In: -19.026 ± 0.052 $\chi^2/\text{NDF}: 6641.6/57$

Out: -19.094 ± 0.051 $\chi^2/\text{NDF}: 8255.1/62$

All: -19.061 ± 0.036 $\chi^2/\text{NDF}: 14897.6/120$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.109 ± 0.007 χ^2/NDF : 9100.3/34

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.156 ± 0.007 χ^2/NDF : 9222.2/37

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

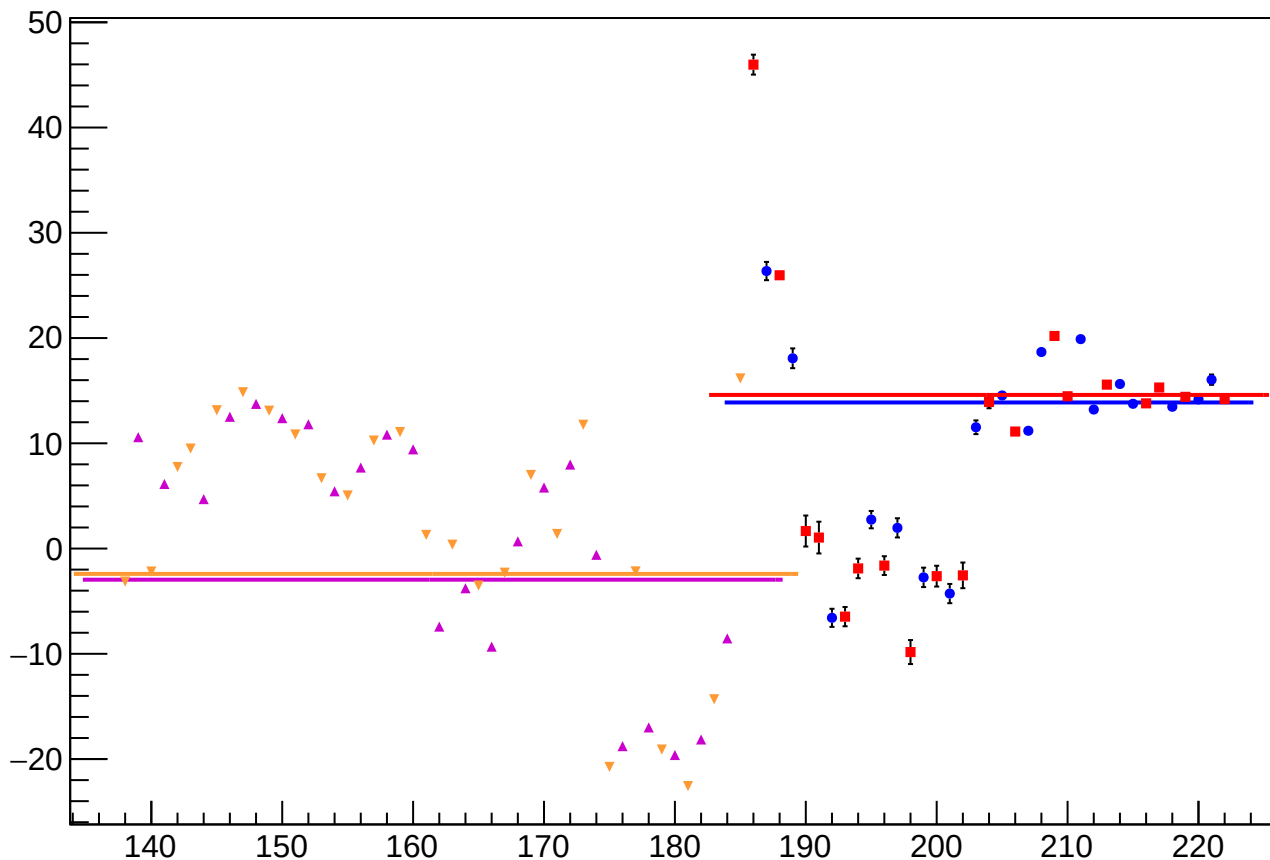
Right: -0.133 ± 0.005 χ^2/NDF : 18346.5/72

In: 0.325 ± 0.002 χ^2/NDF : 14996.9/57

Out: 0.315 ± 0.002 χ^2/NDF : 16207.4/62

All: 0.320 ± 0.002 χ^2/NDF : 31213.6/120

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.879 ± 0.116 χ^2/NDF : 2397.1/17

Left Out: -2.407 ± 0.053 χ^2/NDF : 56368.5/24

Right Out: 14.596 ± 0.117 χ^2/NDF : 4441.9/18

Left In: -2.959 ± 0.055 χ^2/NDF : 45922.6/22

Left: -2.672 ± 0.038 χ^2/NDF : 102343.8/47

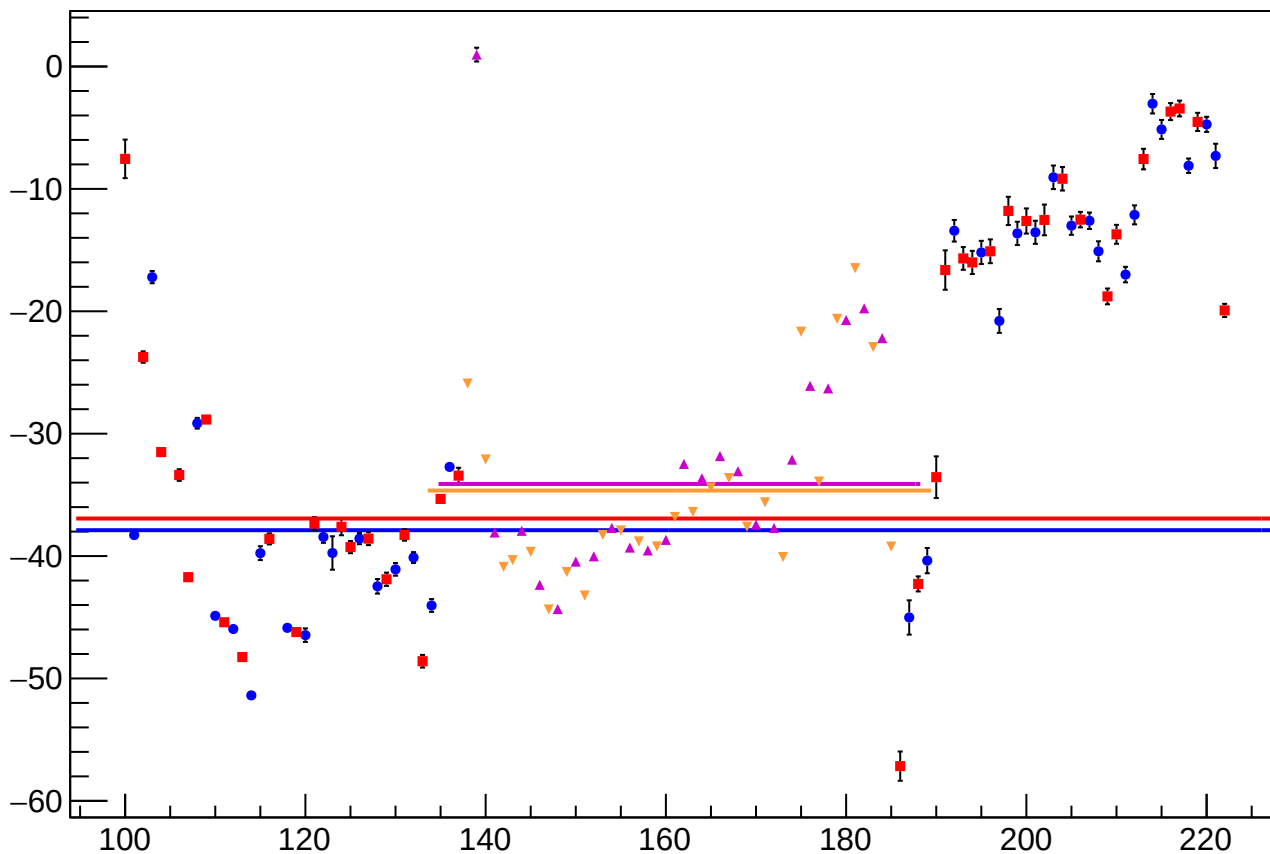
Right: 14.234 ± 0.082 χ^2/NDF : 6857.9/36

In: 0.120 ± 0.050 χ^2/NDF : 65551.7/40

Out: 0.457 ± 0.048 χ^2/NDF : 78295.1/43

All: 0.294 ± 0.035 χ^2/NDF : 143870.5/84

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -37.886 ± 0.072 $\chi^2/\text{NDF}: 28943.3/34$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -36.931 ± 0.068 $\chi^2/\text{NDF}: 29735.8/37$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

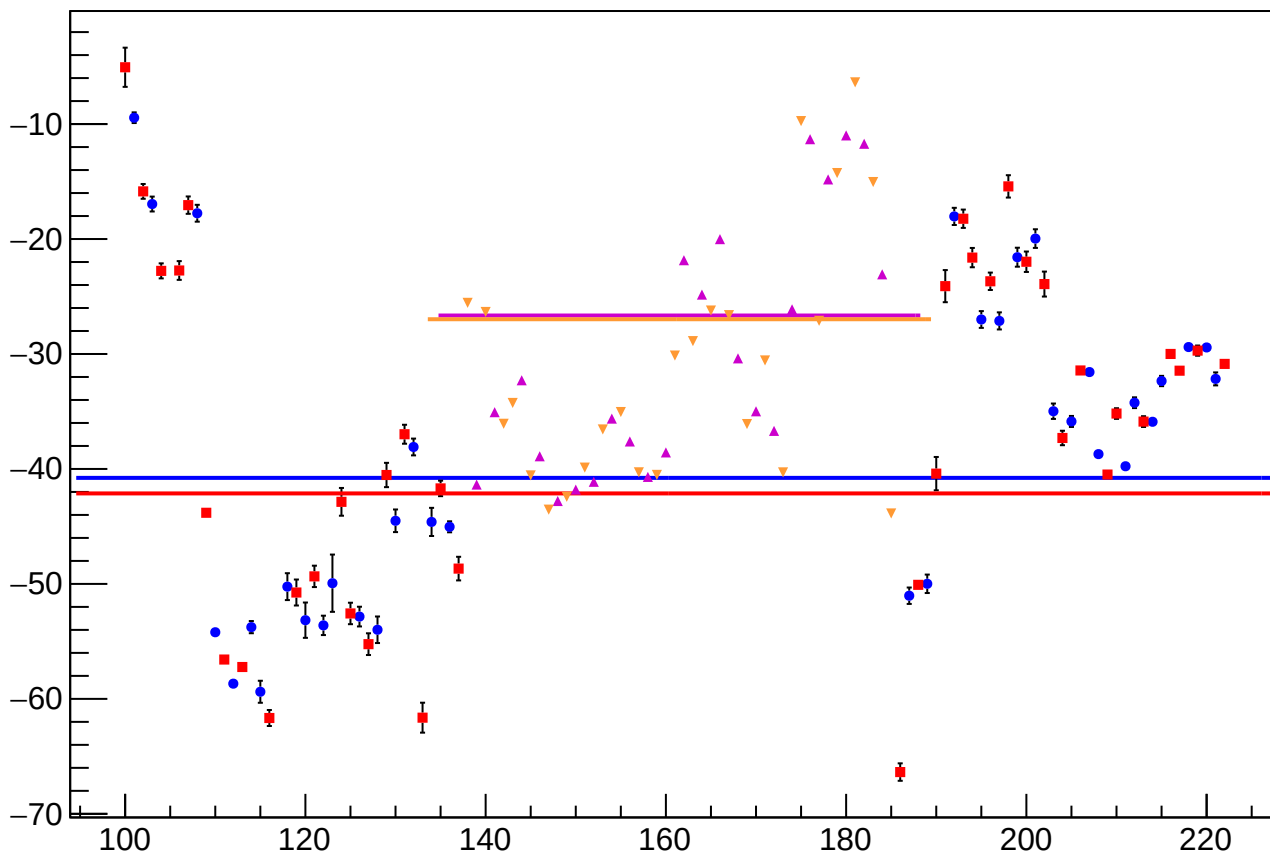
Right: -37.379 ± 0.049 $\chi^2/\text{NDF}: 58771.8/72$

In: -35.128 ± 0.038 $\chi^2/\text{NDF}: 59989.3/57$

Out: -35.274 ± 0.036 $\chi^2/\text{NDF}: 65233.0/62$

All: -35.205 ± 0.026 $\chi^2/\text{NDF}: 125230.3/120$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.776 ± 0.086 $\chi^2/\text{NDF}: 25320.5/34$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -42.129 ± 0.080 $\chi^2/\text{NDF}: 24786.0/37$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

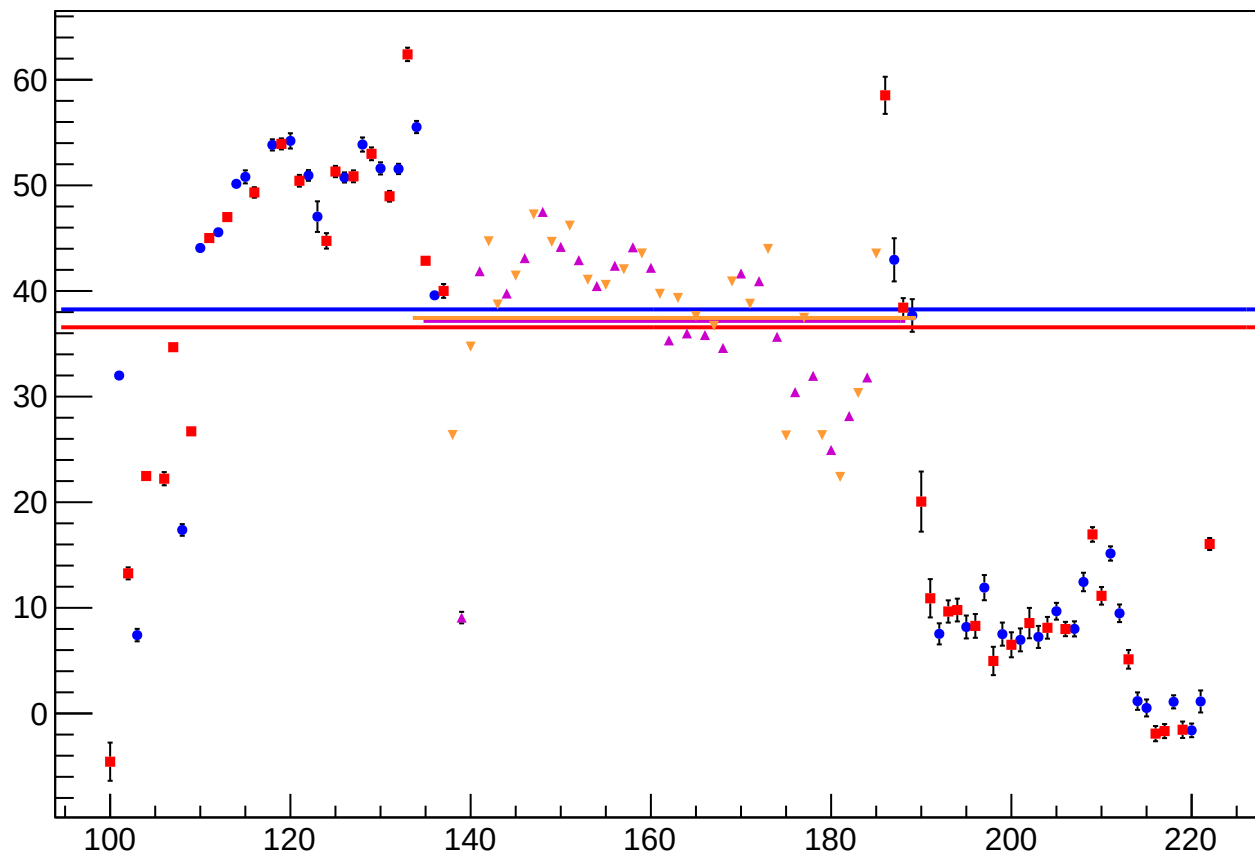
Right: -41.505 ± 0.058 $\chi^2/\text{NDF}: 50239.4/72$

In: -30.737 ± 0.046 $\chi^2/\text{NDF}: 86534.4/57$

Out: -31.651 ± 0.044 $\chi^2/\text{NDF}: 99173.5/62$

All: -31.215 ± 0.032 $\chi^2/\text{NDF}: 185911.4/120$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.256 $\pm$ 0.080 χ^2 /NDF: 38310.0/34

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 36.563 $\pm$ 0.075 χ^2 /NDF: 39256.7/37

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

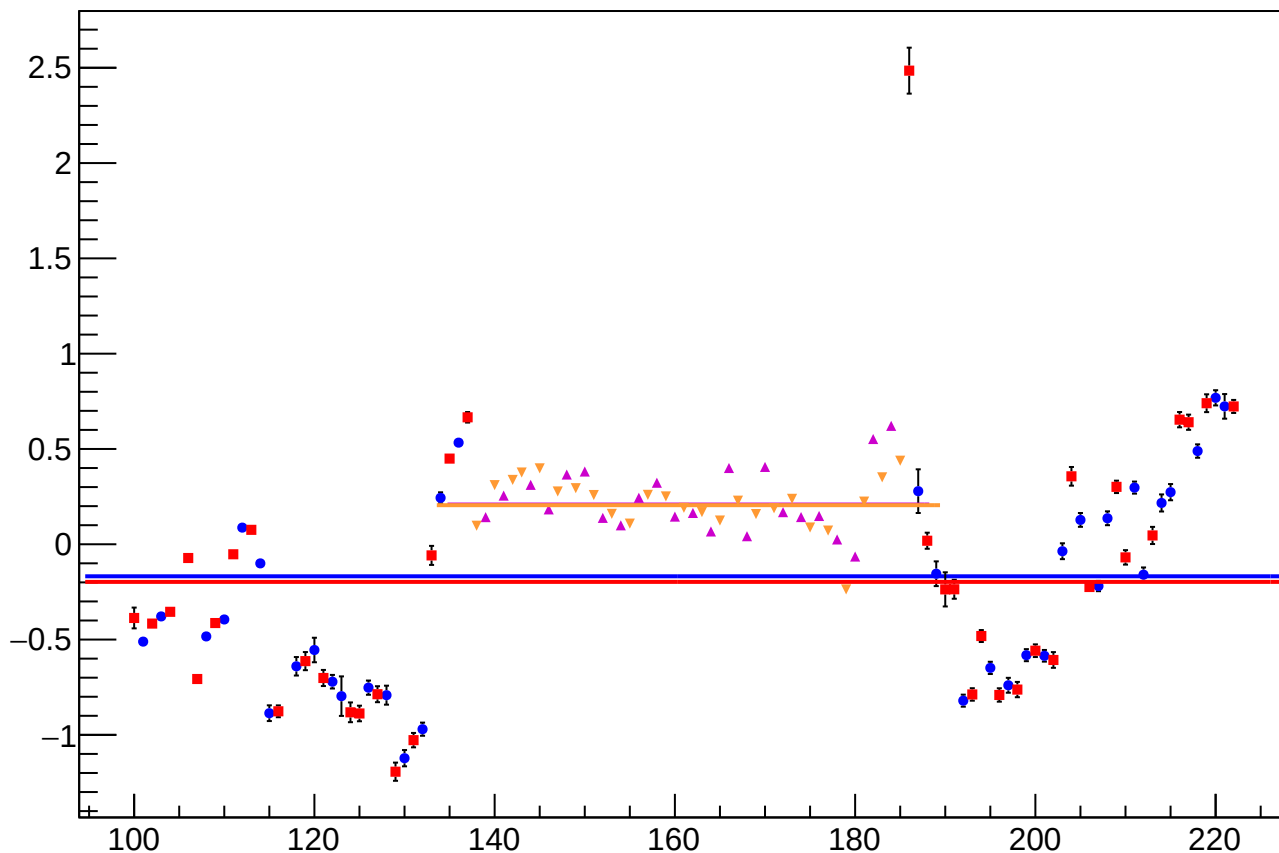
Right: 37.350 $\pm$ 0.055 χ^2 /NDF: 77804.7/72

In: 37.466 $\pm$ 0.042 χ^2 /NDF:55680.1/57

Out: 37.196 $\pm$ 0.040 χ^2 /NDF:60927.2/62

All: 37.324 $\pm$ 0.029 χ^2 /NDF: 116629.1/120

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.168 $\pm$ 0.004 χ^2 /NDF: 10231.9/34

Left Out: 0.205 $\pm$ 0.002 χ^2 /NDF:3826.2/24

Right Out: -0.197 $\pm$ 0.004 χ^2 /NDF: 11494.6/37

Left In: 0.208 $\pm$ 0.002 χ^2 /NDF:5094.6/22

Left: 0.207 $\pm$ 0.002 χ^2 /NDF: 8922.0/47

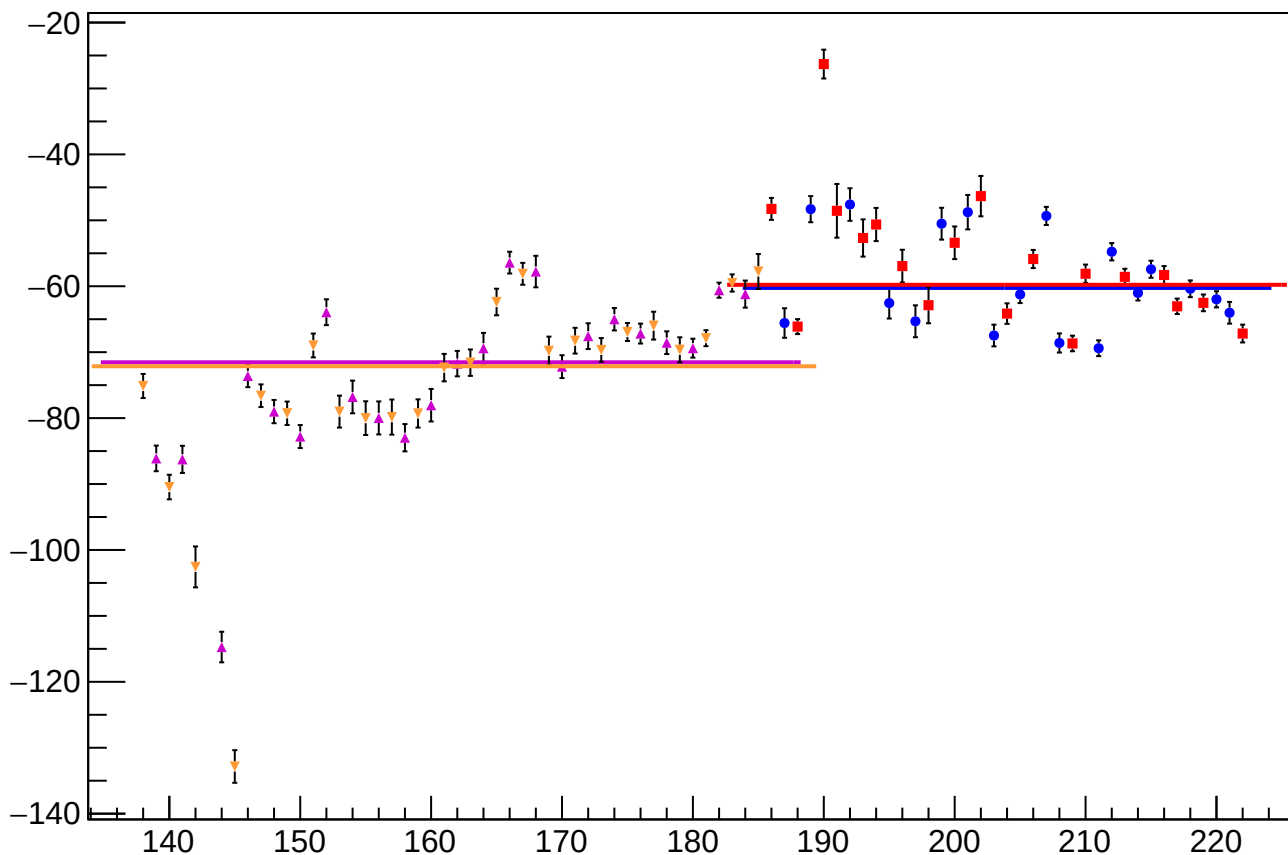
Right: -0.184 $\pm$ 0.003 χ^2 /NDF: 21752.5/72

In: 0.126 $\pm$ 0.002 χ^2 /NDF:21470.8/57

Out: 0.109 $\pm$ 0.002 χ^2 /NDF:23524.2/62

All: 0.117 $\pm$ 0.001 χ^2 /NDF: 45035.4/120

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -60.252 ± 0.364 χ^2/NDF : 313.8/17

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -59.777 ± 0.364 χ^2/NDF : 487.8/18

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

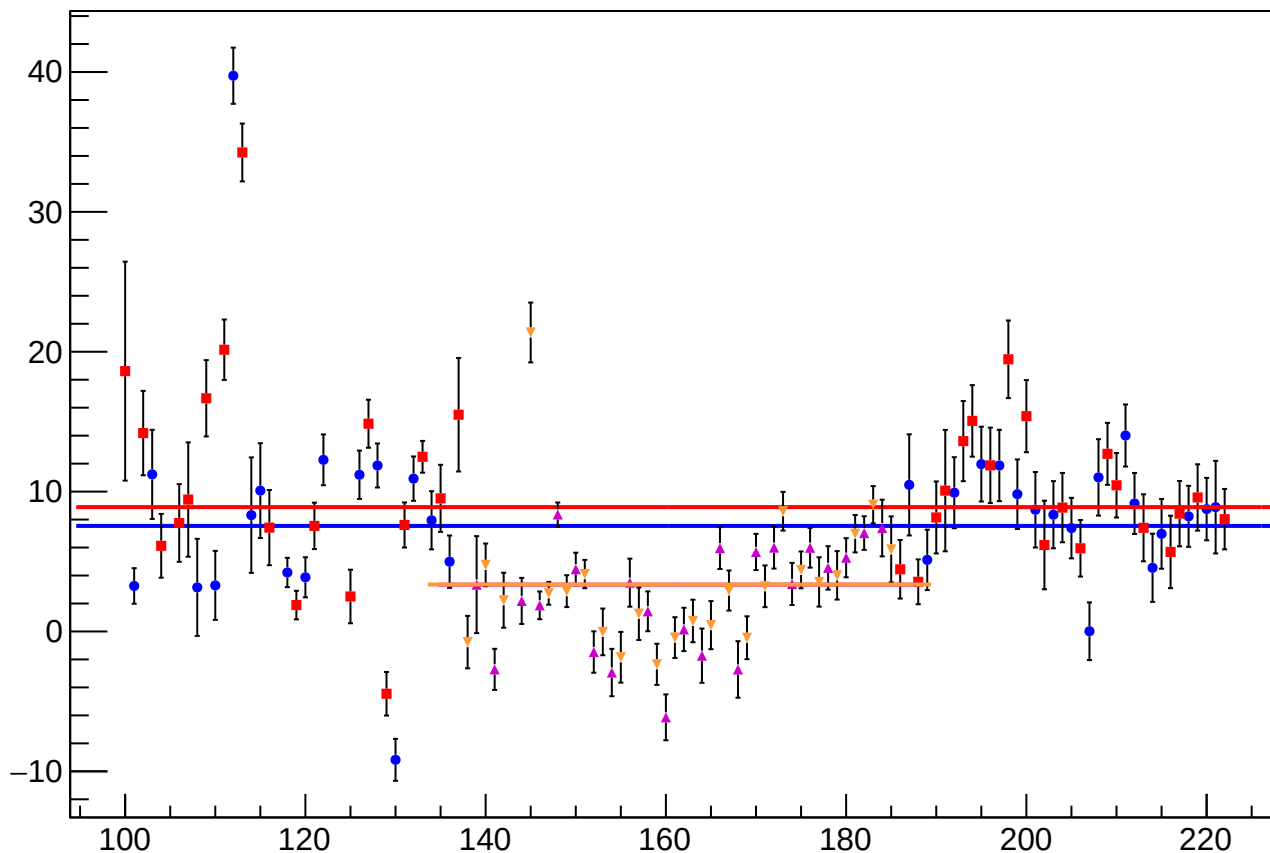
Right: -60.015 ± 0.258 χ^2/NDF : 802.4/36

In: -65.628 ± 0.263 χ^2/NDF : 1622.6/40

Out: -65.652 ± 0.264 χ^2/NDF : 2156.1/42

All: -65.640 ± 0.186 χ^2/NDF : 3778.7/83

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.546 $\pm$ 0.349 χ^2/NDF : 477.0/33

Left Out: 3.357 $\pm$ 0.295 χ^2/NDF :167.7/23

Right Out: 8.890 $\pm$ 0.348 χ^2/NDF : 404.5/36

Left In: 3.349 $\pm$ 0.298 χ^2/NDF :163.5/22

Left: 3.353 $\pm$ 0.210 χ^2/NDF : 331.2/46

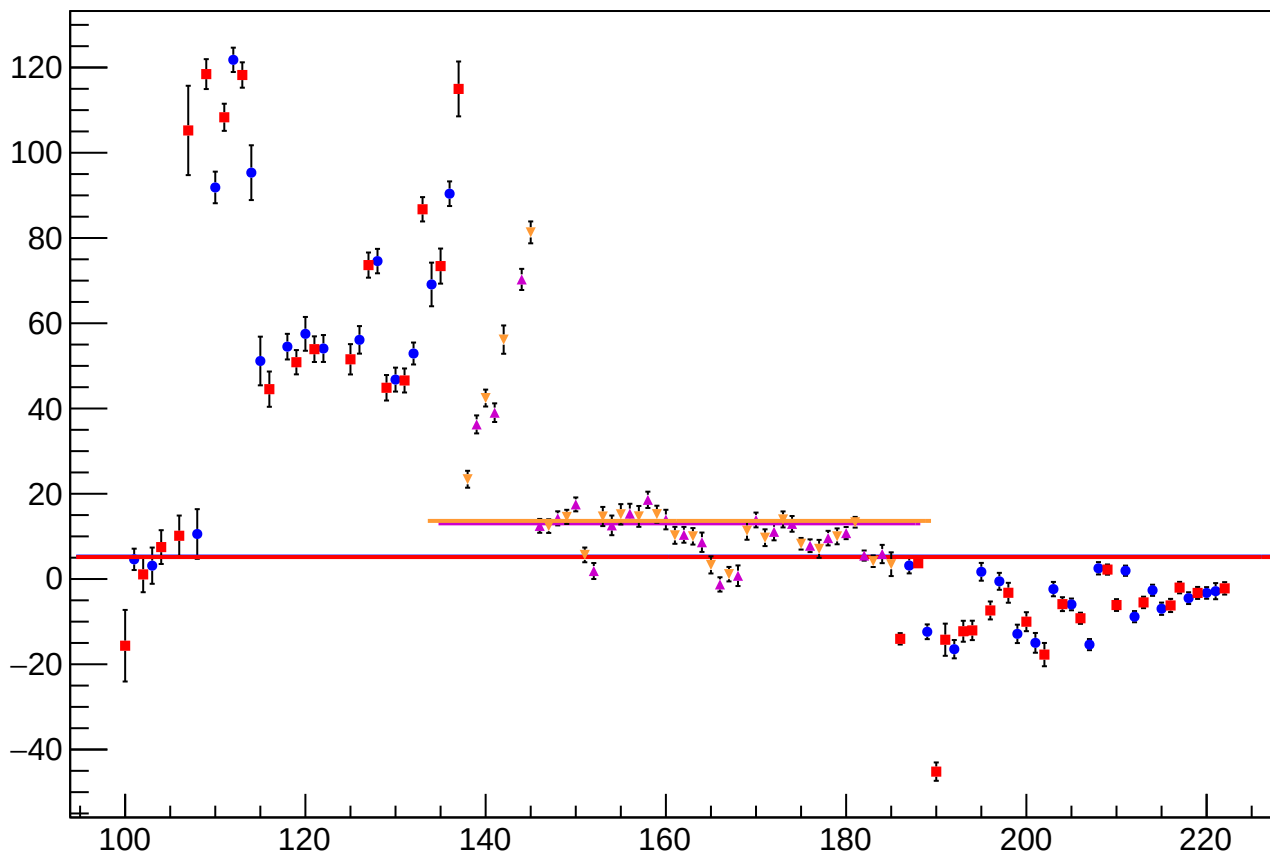
Right: 8.222 $\pm$ 0.246 χ^2/NDF : 889.0/70

In: 5.119 $\pm$ 0.227 χ^2/NDF :724.1/56

Out: 5.672 $\pm$ 0.225 χ^2/NDF :719.7/60

All: 5.398 $\pm$ 0.160 χ^2/NDF : 1446.8/117

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.263+/-0.338 χ^2/NDF : 6616.7/33

Left Out: 13.632+/-0.382 χ^2/NDF :1300.0/23

Right Out: 5.150+/-0.329 χ^2/NDF : 8231.9/36

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.344+/-0.269 χ^2/NDF : 2325.9/46

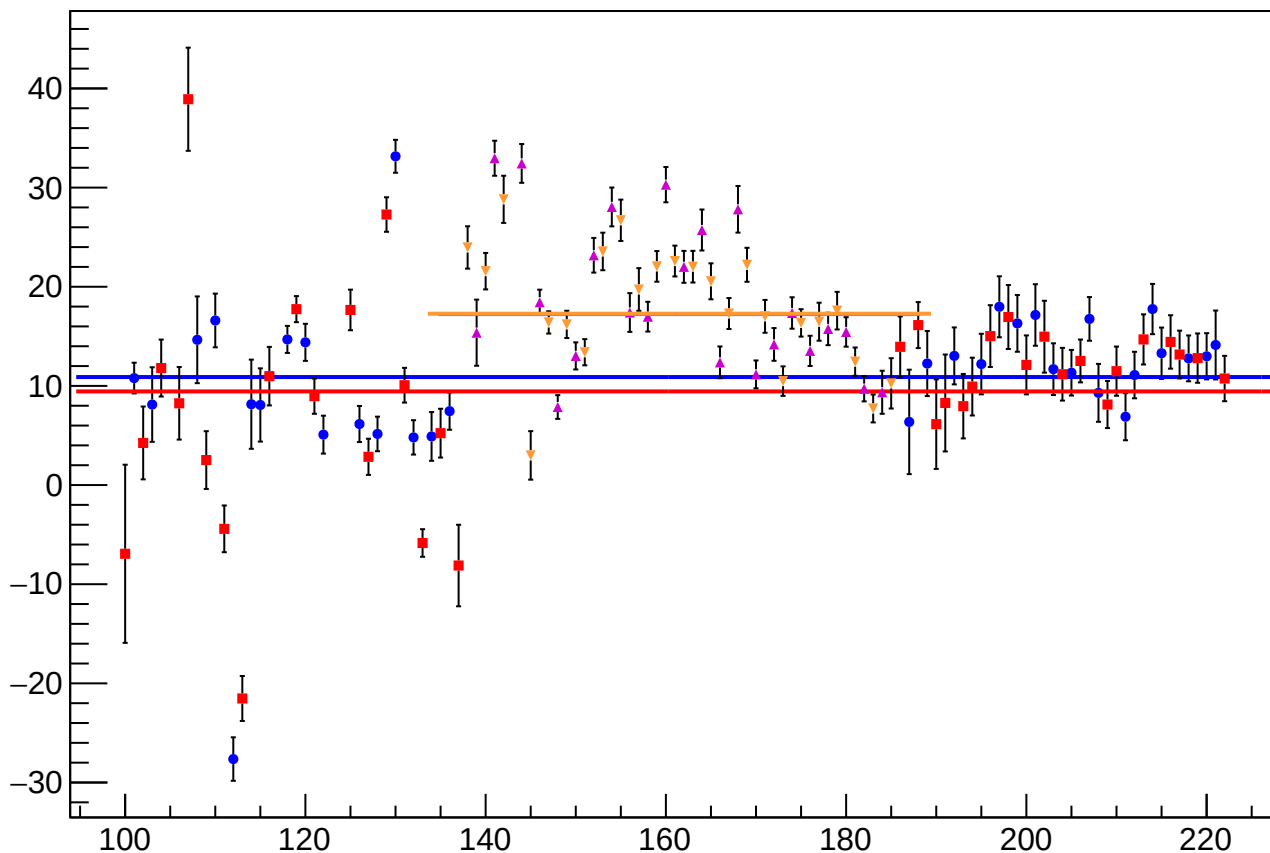
Right: 5.205+/-0.236 χ^2/NDF : 14848.7/70

In: 8.703+/-0.252 χ^2/NDF :7876.8/56

Out: 8.769+/-0.249 χ^2/NDF :9815.0/60

All: 8.736+/-0.177 χ^2/NDF : 17691.9/117

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.892 $\pm$ 0.397 χ^2 /NDF: 590.2/33

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 9.444 $\pm$ 0.400 χ^2 /NDF: 620.2/36

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

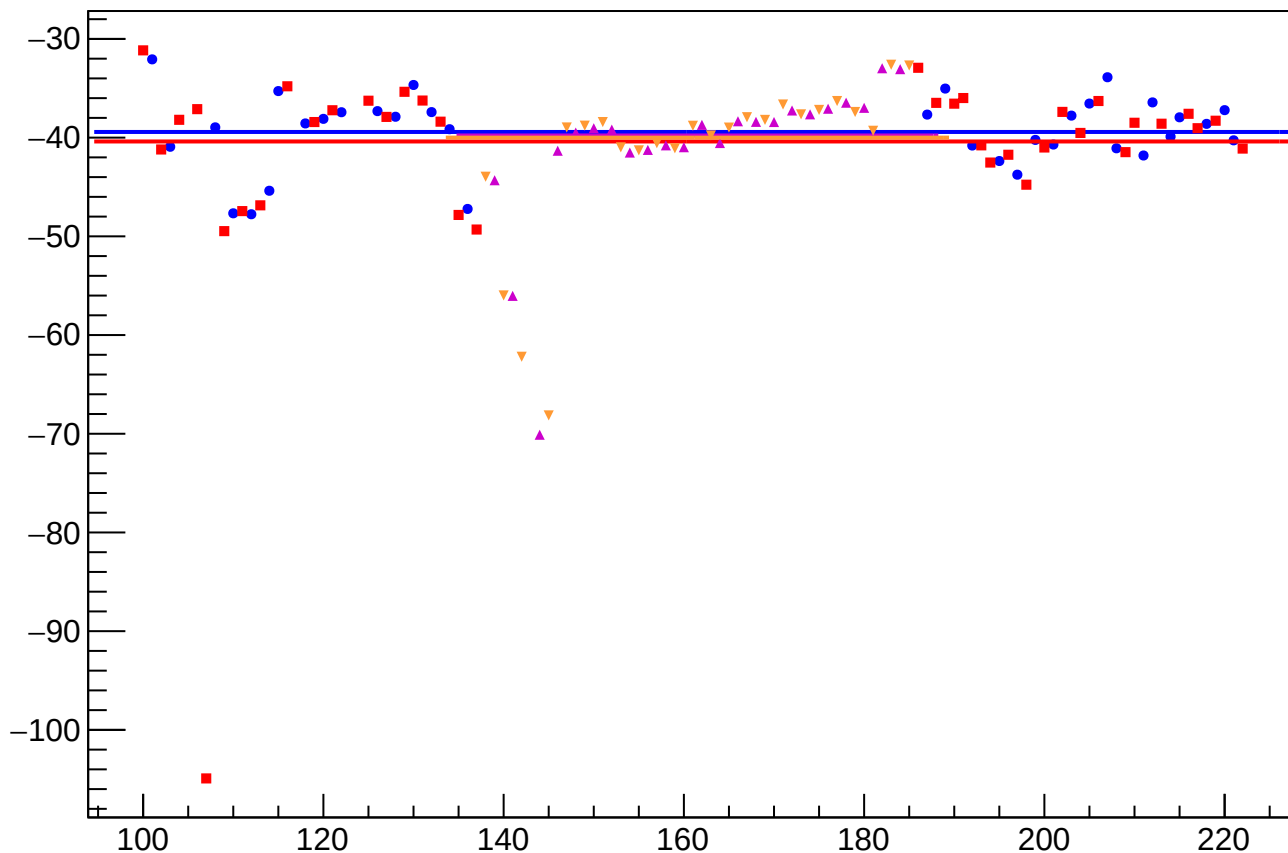
Right: 10.173 $\pm$ 0.282 χ^2 /NDF: 1217.0/70

In: 14.562 $\pm$ 0.258 χ^2 /NDF:1179.0/56

Out: 14.024 $\pm$ 0.258 χ^2 /NDF:1088.6/60

All: 14.293 $\pm$ 0.182 χ^2 /NDF: 2269.7/117

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.425 $\pm$ 0.020 χ^2 /NDF: 38200.2/33

Left Out: -39.999 $\pm$ 0.016 χ^2 /NDF: 172263.8/23

Right Out: -40.389 $\pm$ 0.020 χ^2 /NDF: 108021.8/36

Left In: -39.785 $\pm$ 0.016 χ^2 /NDF: 144494.5/22

Left: -39.891 $\pm$ 0.011 χ^2 /NDF: 316851.8/46

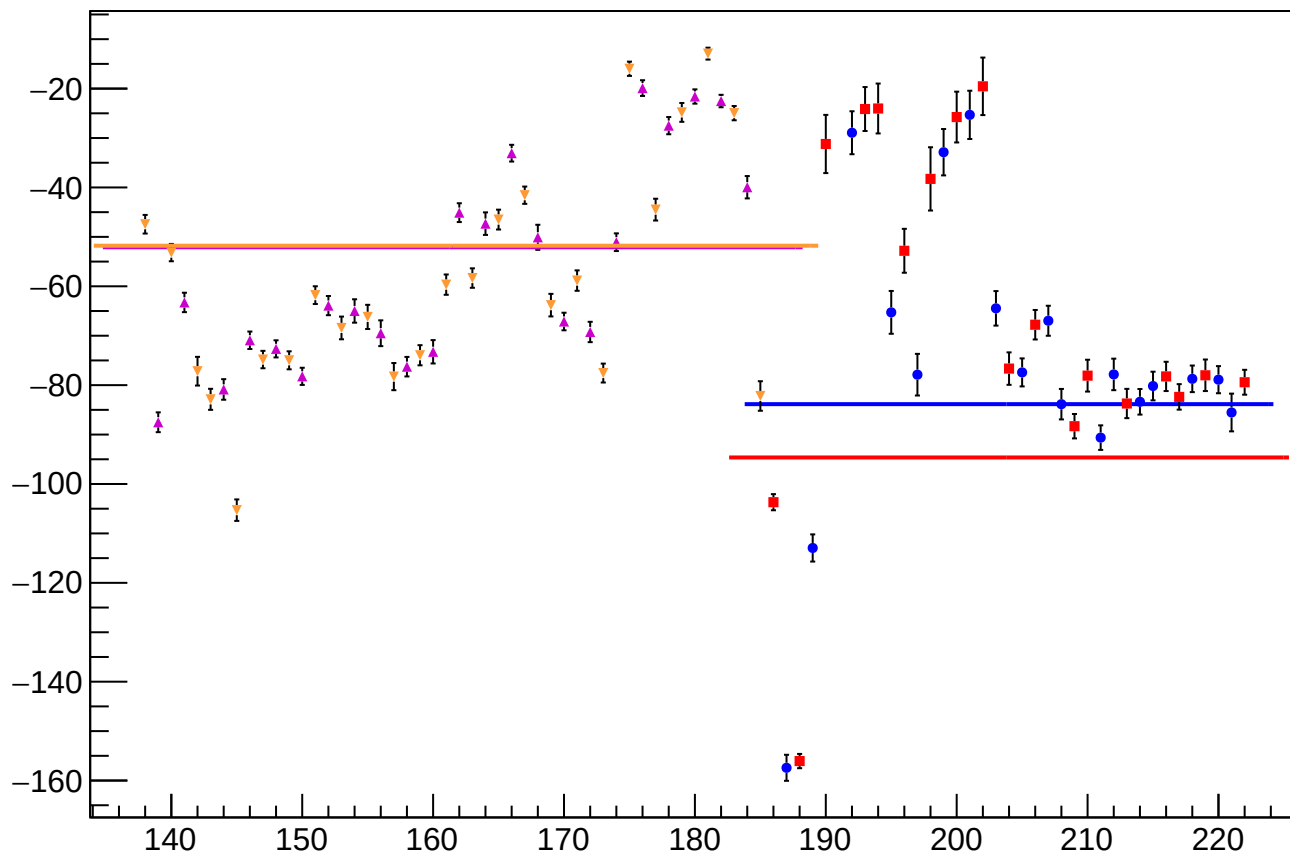
Right: -39.911 $\pm$ 0.014 χ^2 /NDF: 147399.8/70

In: -39.648 $\pm$ 0.012 χ^2 /NDF: 182895.7/56

Out: -40.151 $\pm$ 0.012 χ^2 /NDF: 280523.3/60

All: -39.899 $\pm$ 0.009 χ^2 /NDF: 464252.8/117

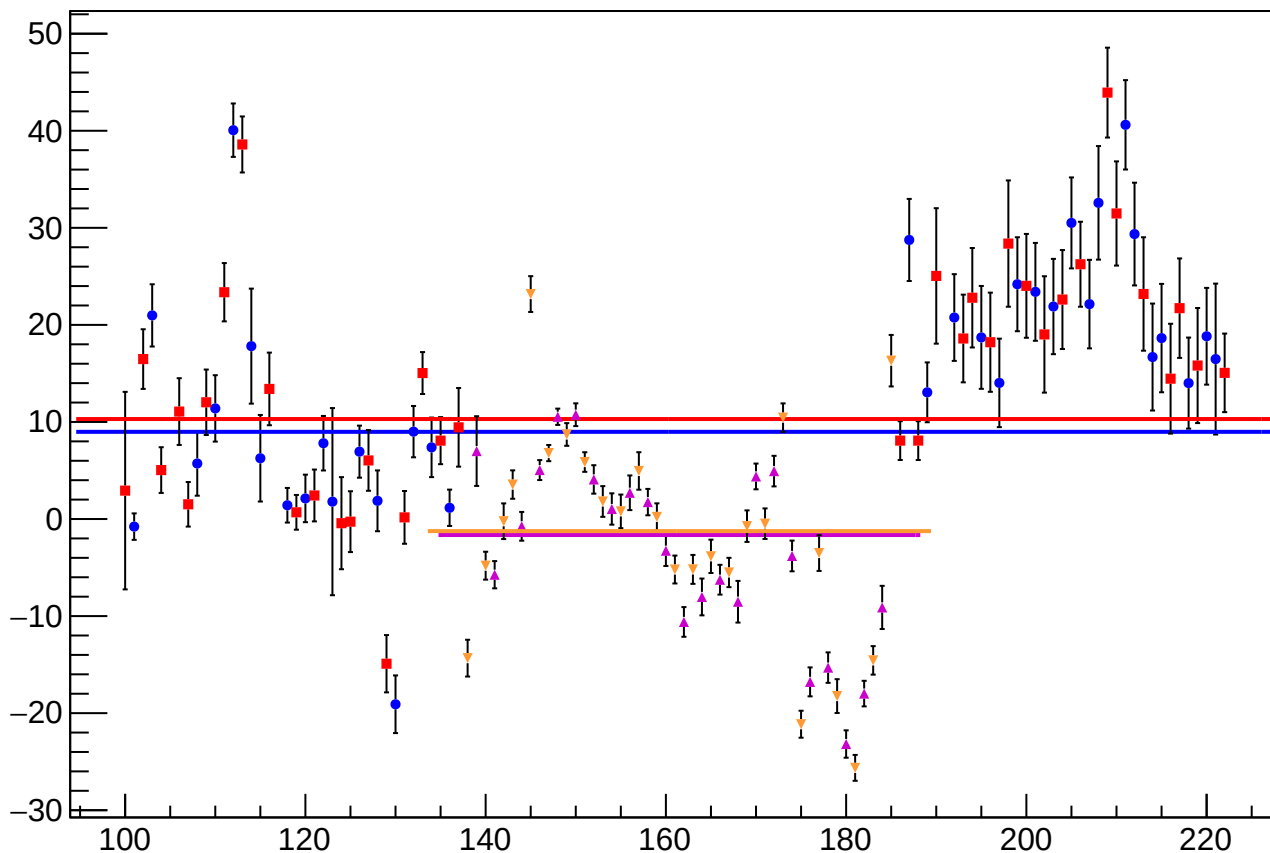
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -83.845 $\pm$ 0.742 χ^2 /NDF: 1422.1/17
 Left Out: -51.787 $\pm$ 0.383 χ^2 /NDF: 4164.8/24
 Right Out: -94.632 $\pm$ 0.672 χ^2 /NDF: 3186.1/17
 Left In: -52.104 $\pm$ 0.389 χ^2 /NDF: 3280.2/22

Left: -51.943 $\pm$ 0.273 χ^2 /NDF: 7445.3/47
 Right: -89.774 $\pm$ 0.498 χ^2 /NDF: 4724.3/35
 In: -58.934 $\pm$ 0.344 χ^2 /NDF: 6137.4/40
 Out: -62.279 $\pm$ 0.332 χ^2 /NDF: 10421.4/42
 All: -60.665 $\pm$ 0.239 χ^2 /NDF: 16607.6/83

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.982 ± 0.549 $\chi^2/\text{NDF}: 515.0/34$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.301 ± 0.538 $\chi^2/\text{NDF}: 423.7/36$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

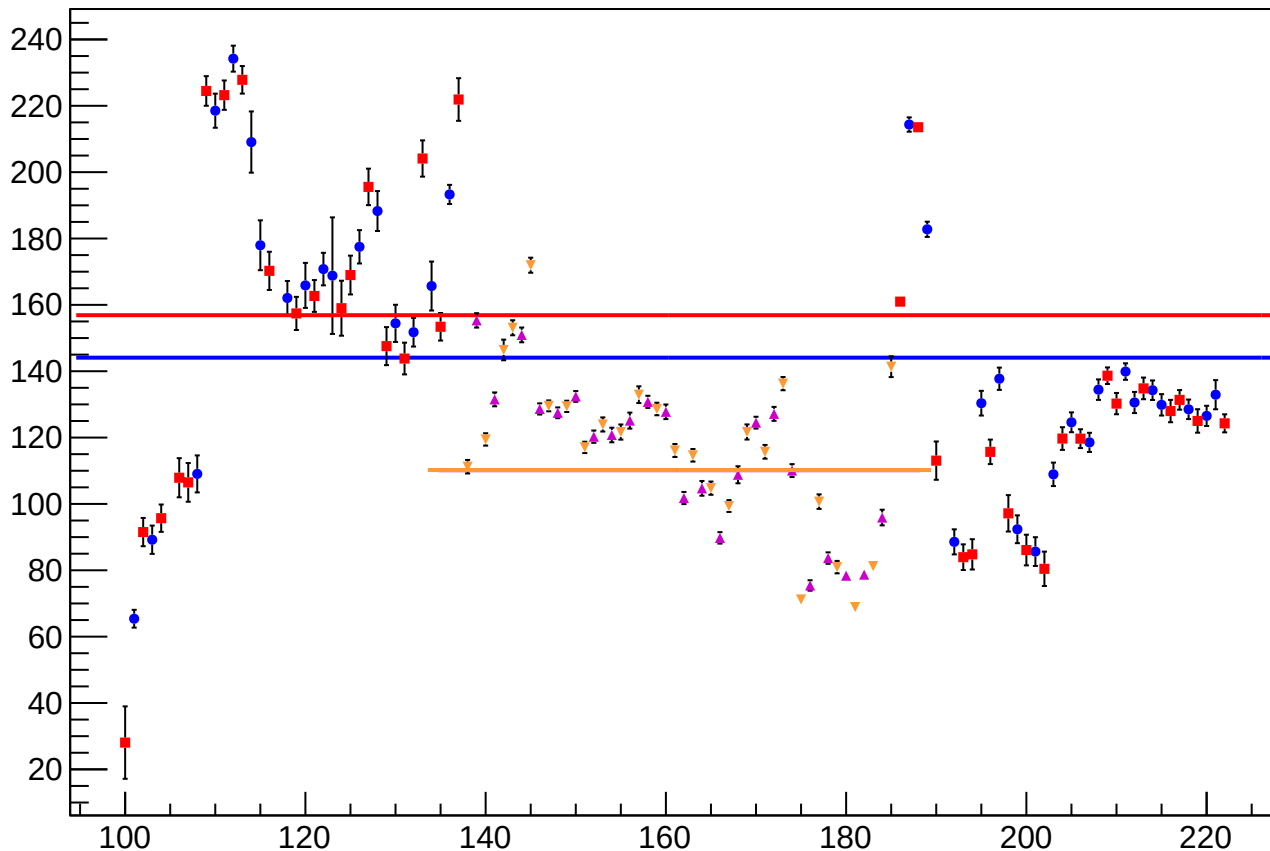
Right: 9.654 ± 0.384 $\chi^2/\text{NDF}: 941.7/71$

In: 0.799 ± 0.263 $\chi^2/\text{NDF}: 1896.3/57$

Out: 1.375 ± 0.256 $\chi^2/\text{NDF}: 2101.9/61$

All: 1.095 ± 0.184 $\chi^2/\text{NDF}: 4000.7/119$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 144.087 $\pm$ 0.613 χ^2 /NDF: 4586.5/34

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 156.886 $\pm$ 0.545 χ^2 /NDF: 6313.4/36

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

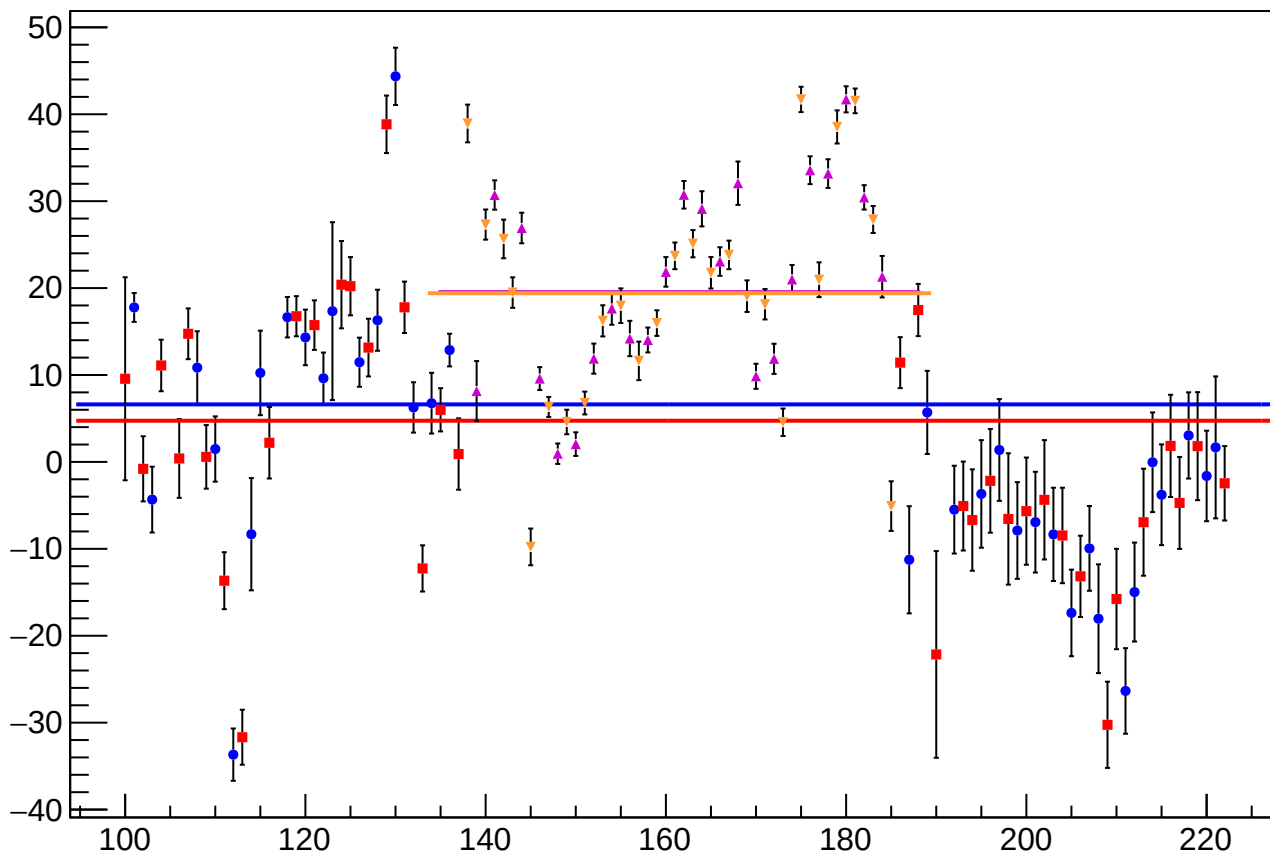
Right: 151.232 $\pm$ 0.407 χ^2 /NDF: 11143.3/71

In: 119.799 $\pm$ 0.327 χ^2 /NDF:10481.0/57

Out: 125.580 $\pm$ 0.313 χ^2 /NDF:15821.4/61

All: 122.814 $\pm$ 0.226 χ^2 /NDF: 26465.7/119

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.618 $\pm$ 0.630 χ^2/NDF : 576.1/34

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 4.739 $\pm$ 0.632 χ^2/NDF : 569.4/36

Left In: 19.530 $\pm$ 0.342 χ^2/NDF :1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2/NDF : 2634.8/47

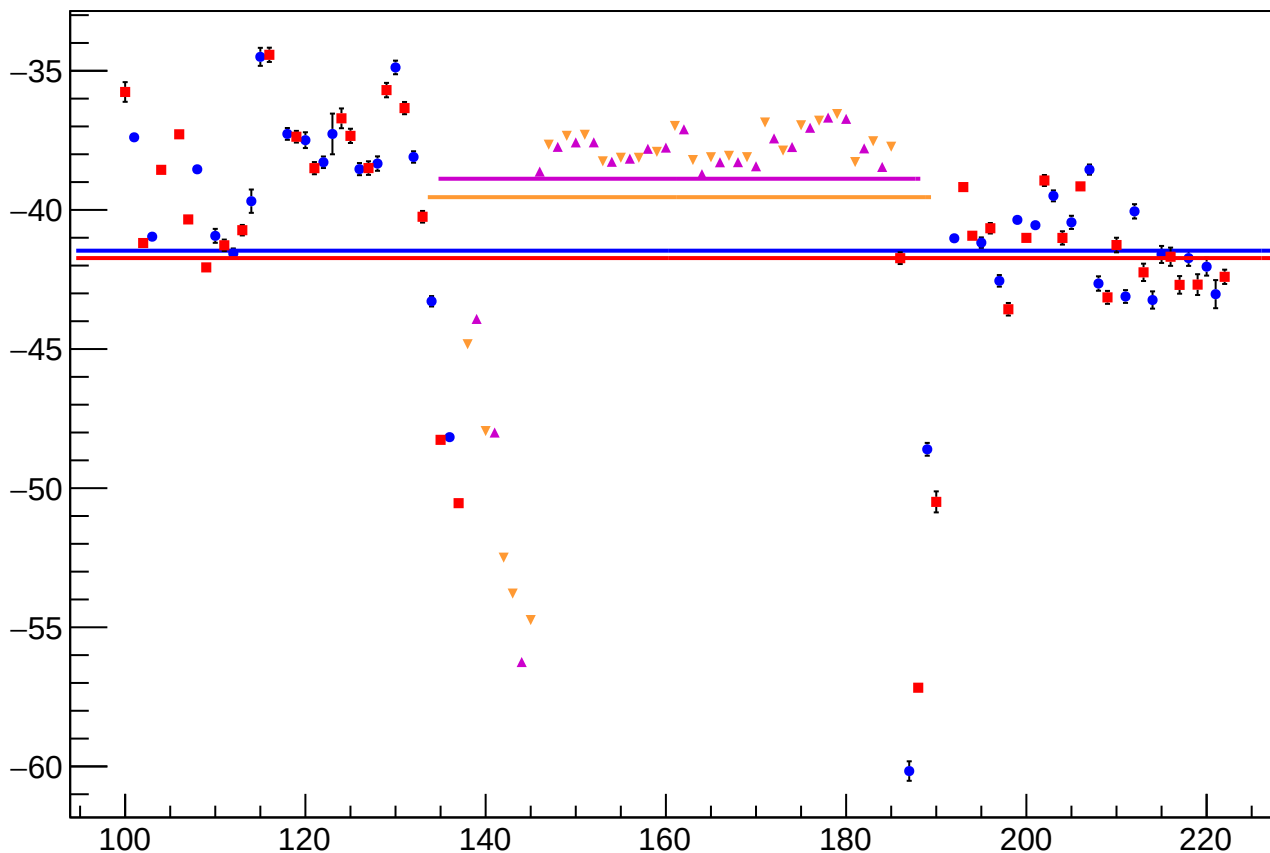
Right: 5.682 $\pm$ 0.446 χ^2/NDF : 1150.0/71

In: 16.585 $\pm$ 0.301 χ^2/NDF :2081.6/57

Out: 16.197 $\pm$ 0.296 χ^2/NDF :2442.9/61

All: 16.388 $\pm$ 0.211 χ^2/NDF : 4525.4/119

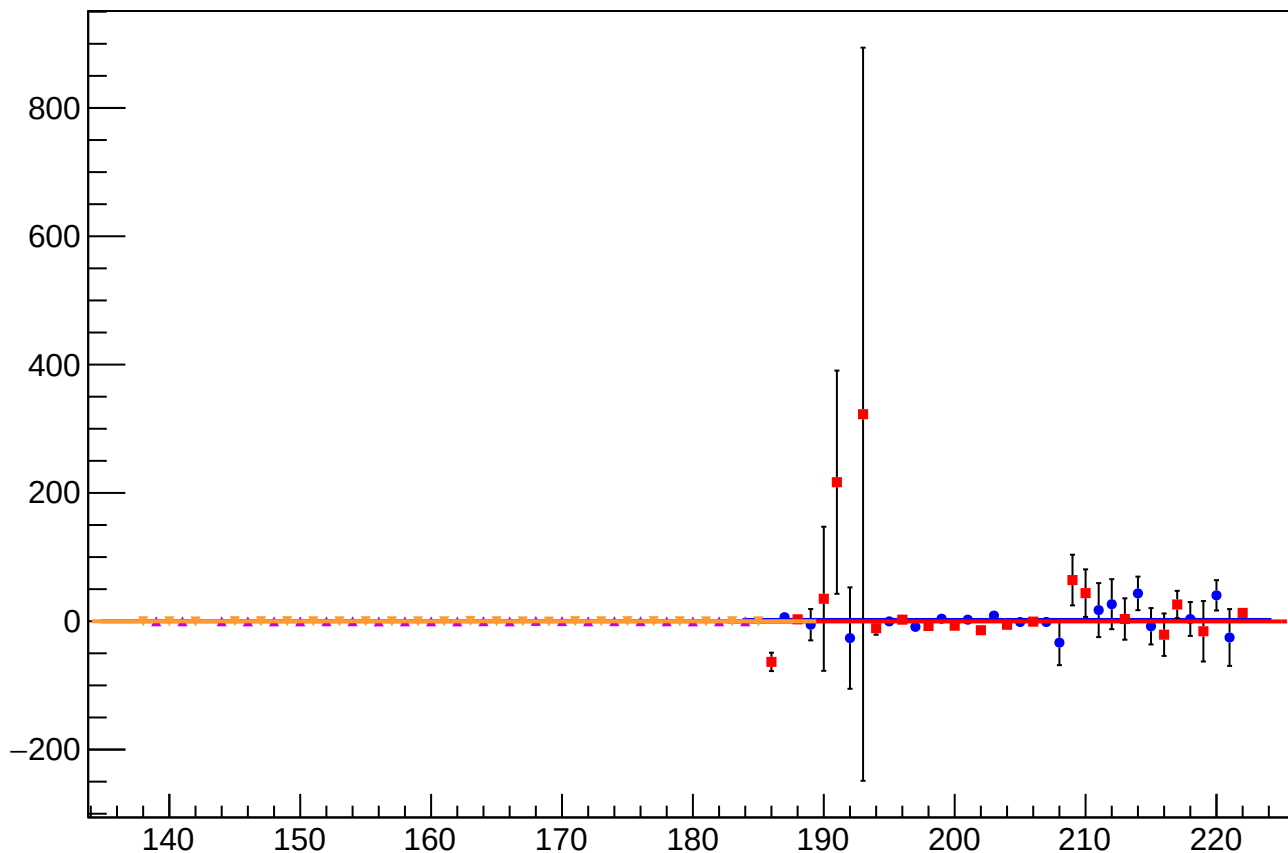
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.465 ± 0.031 $\chi^2/\text{NDF}: 16970.5/34$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.731 ± 0.031 $\chi^2/\text{NDF}: 23137.1/36$
 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: -41.599 ± 0.022 $\chi^2/\text{NDF}: 40144.6/71$
 In: -39.413 ± 0.014 $\chi^2/\text{NDF}: 75859.6/57$
 Out: -39.994 ± 0.014 $\chi^2/\text{NDF}: 119160.3/61$
 All: -39.706 ± 0.010 $\chi^2/\text{NDF}: 195871.2/119$

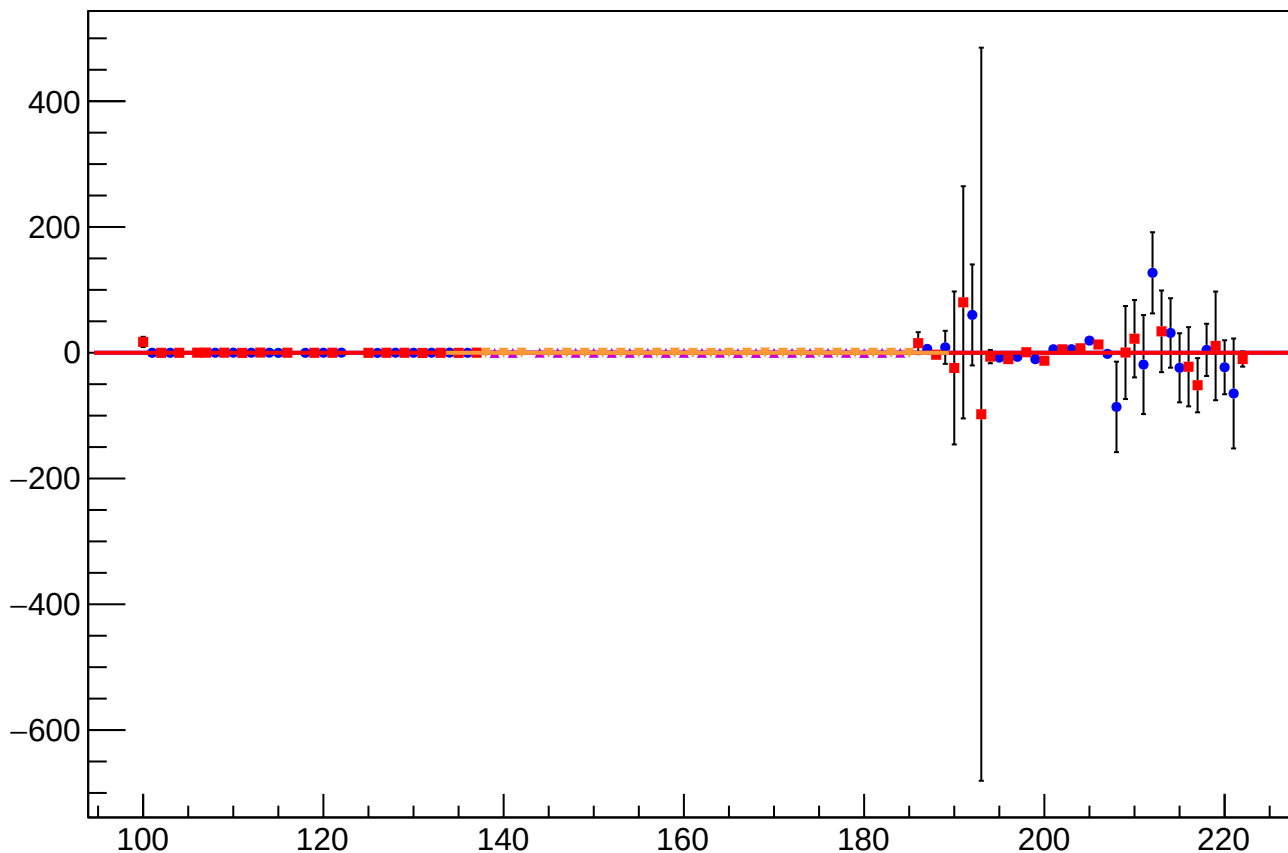
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.003 ± 1.522 $\chi^2/\text{NDF}: 18.5/17$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.298 ± 1.389 $\chi^2/\text{NDF}: 42.0/18$
 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: 0.747 ± 1.026 $\chi^2/\text{NDF}: 61.7/36$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 53.5/40$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 81.7/42$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 139.4/83$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 38.6/33

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.7/36

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

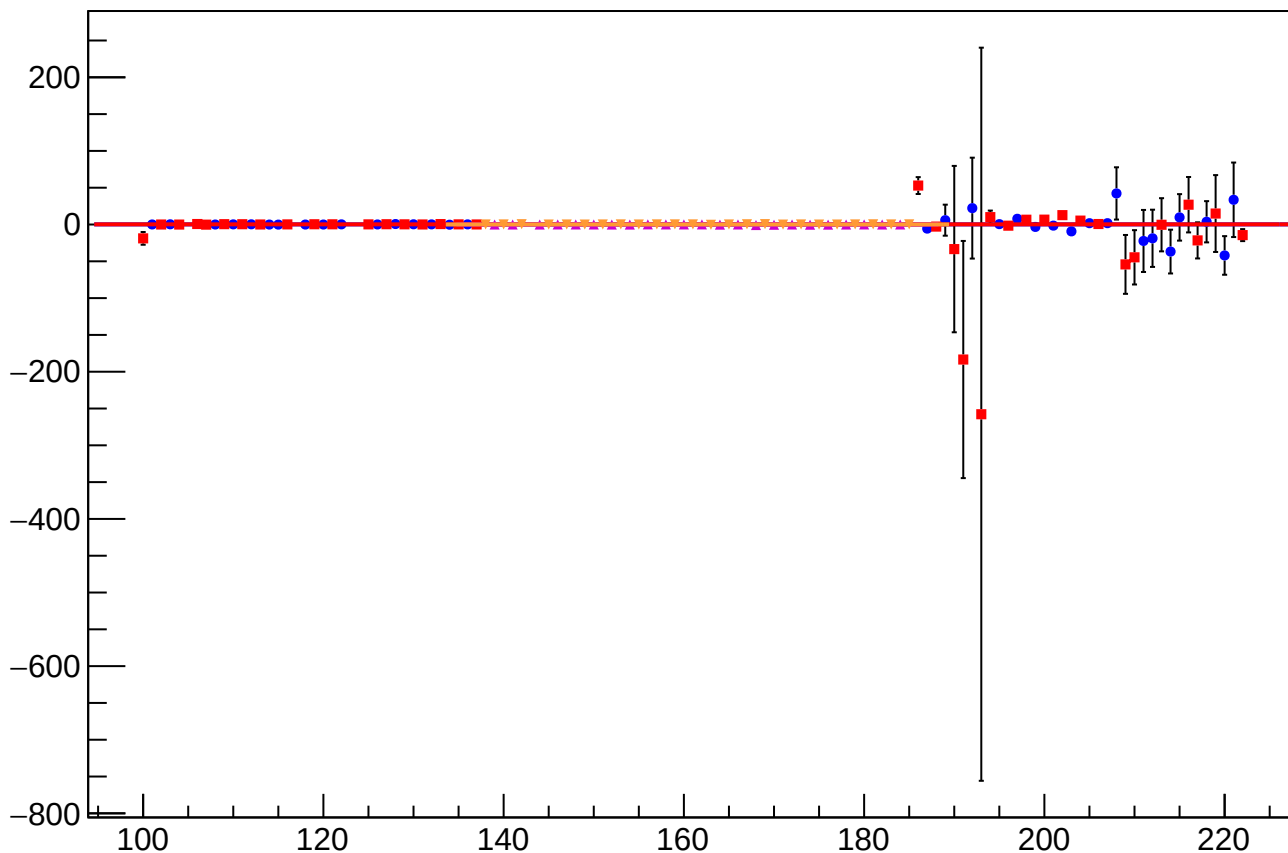
Right: -0.025 ± 0.020 χ^2/NDF : 83.8/70

In: -0.038 ± 0.015 χ^2/NDF : 72.6/56

Out: -0.073 ± 0.015 χ^2/NDF : 70.4/60

All: -0.056 ± 0.011 χ^2/NDF : 145.7/117

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 33.8/33

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.235 $\pm$ 0.054 χ^2 /NDF: 64.9/36

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

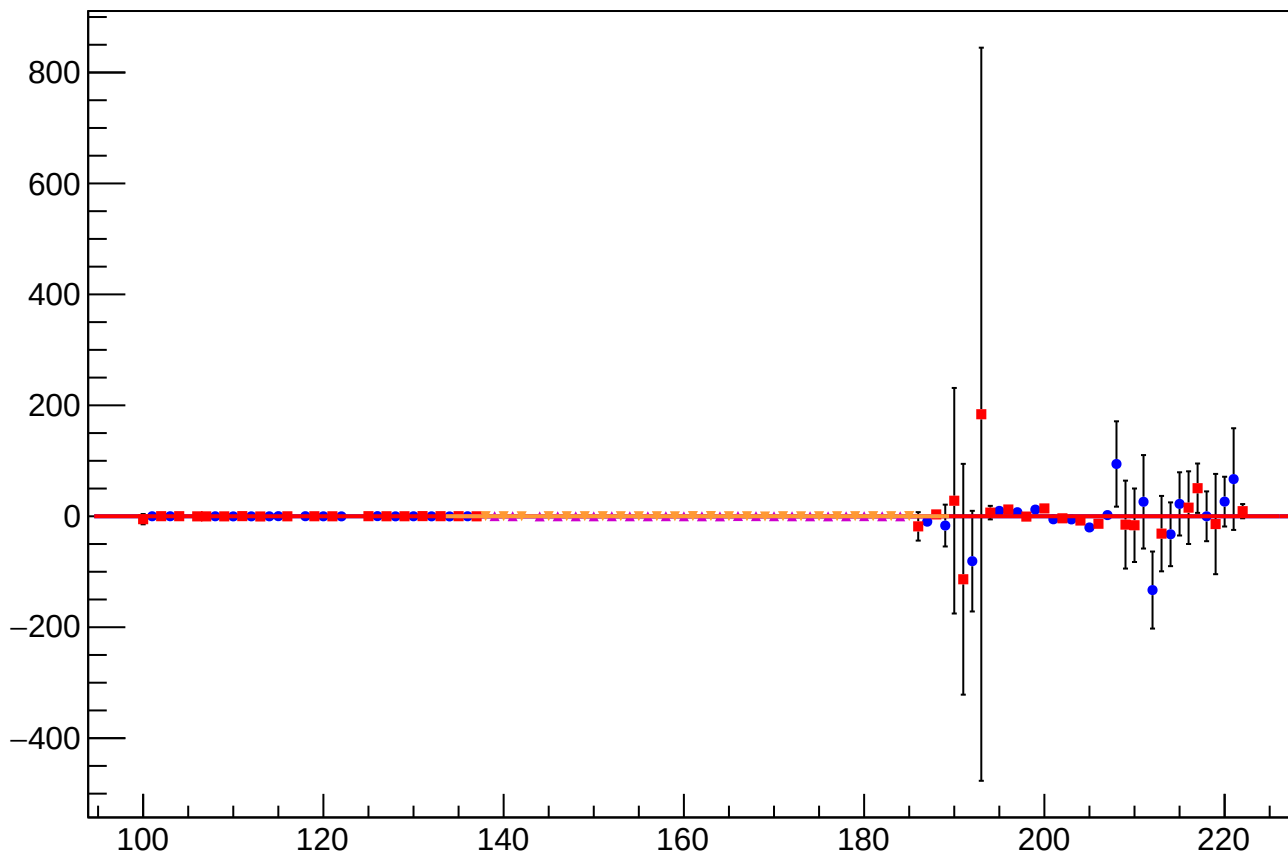
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 99.4/70

In: 0.043 $\pm$ 0.020 χ^2 /NDF:76.4/56

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:110.2/60

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 191.0/117

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 40.1/33$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 36.8/36$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

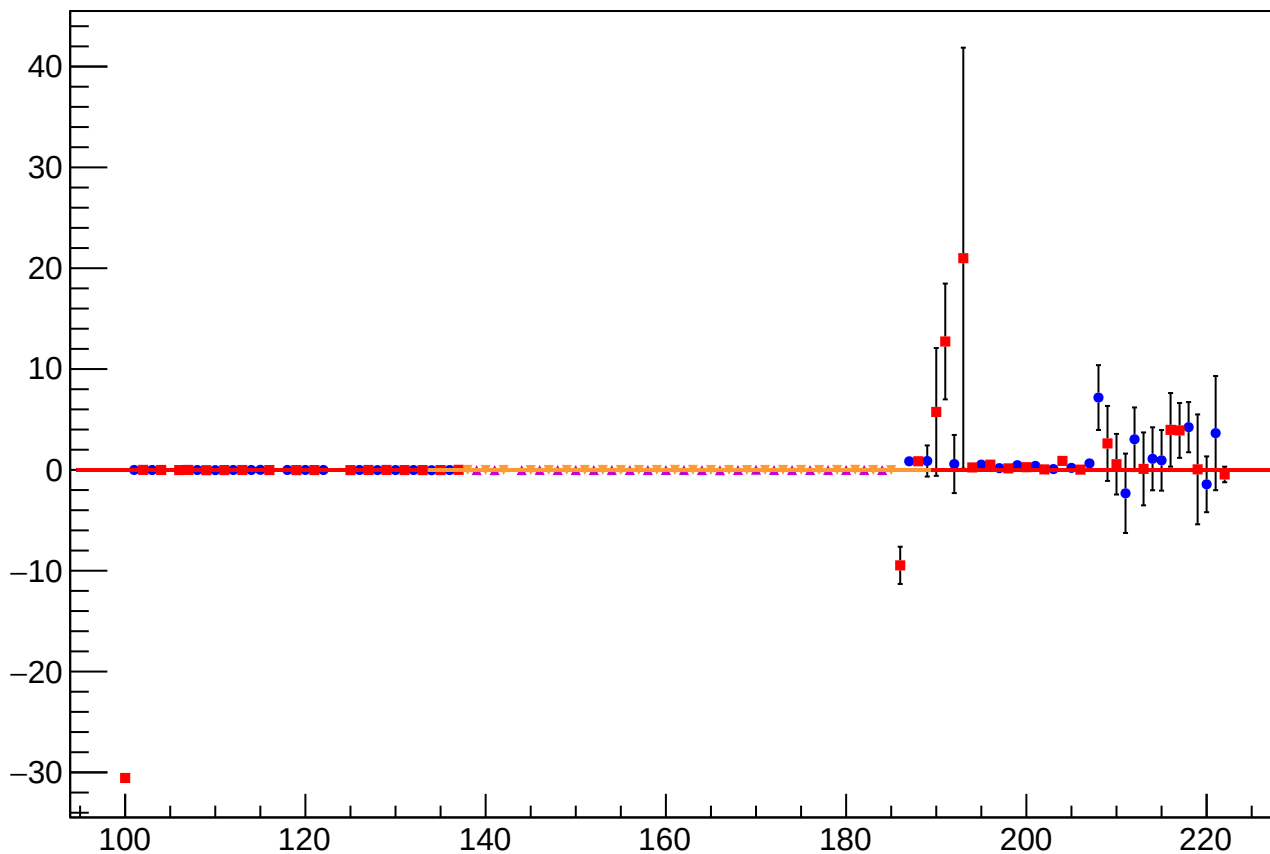
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 78.7/70$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 75.3/56$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 67.7/60$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 146.5/117$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 51.7/33

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.5/36

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

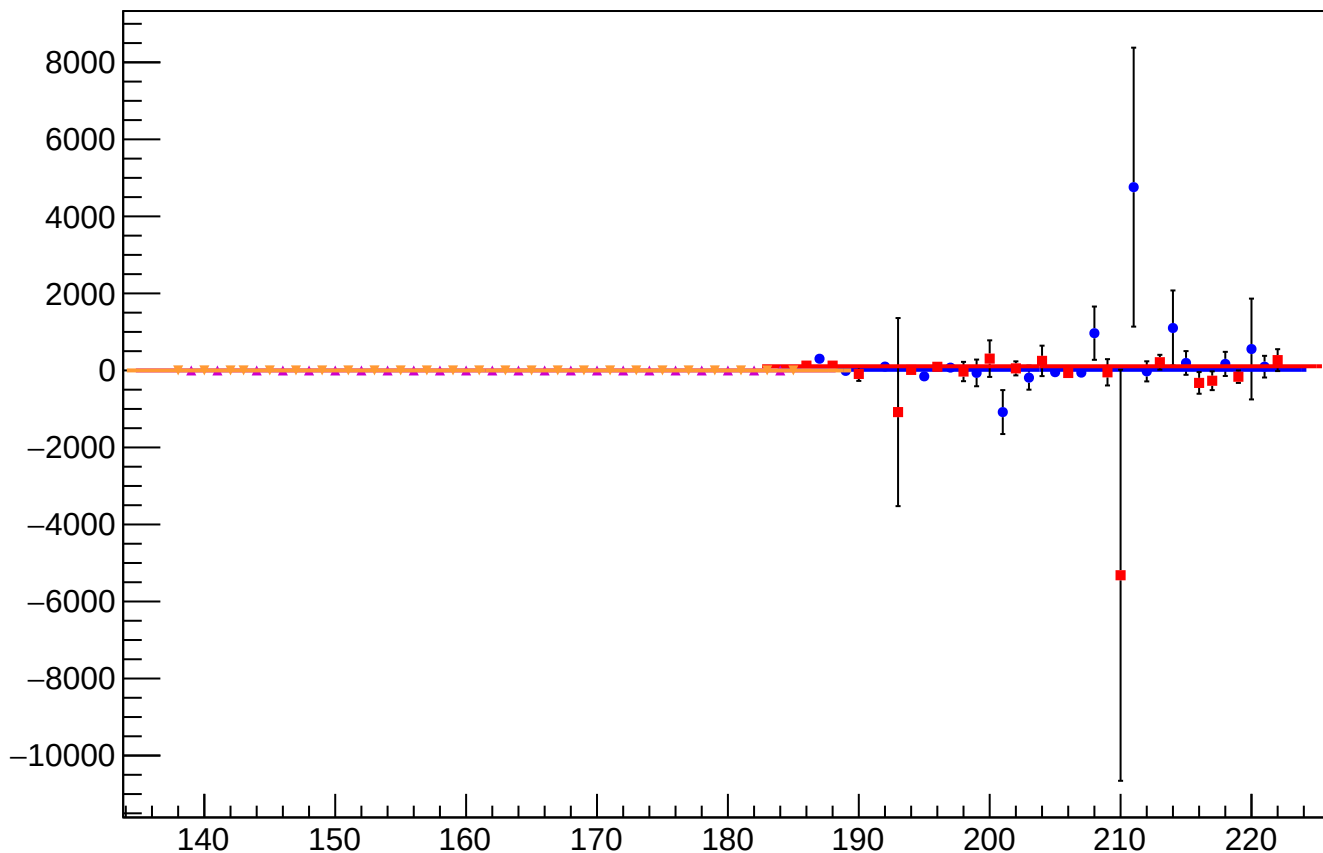
Right: -0.012 ± 0.001 χ^2/NDF : 12010.2/70

In: -0.009 ± 0.001 χ^2/NDF : 94.6/56

Out: -0.009 ± 0.001 χ^2/NDF : 11992.4/60

All: -0.009 ± 0.001 χ^2/NDF : 12087.3/117

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.766+/-25.610 χ^2/NDF : 26.0/17

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 107.979+/-15.945 χ^2/NDF : 16.8/17

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

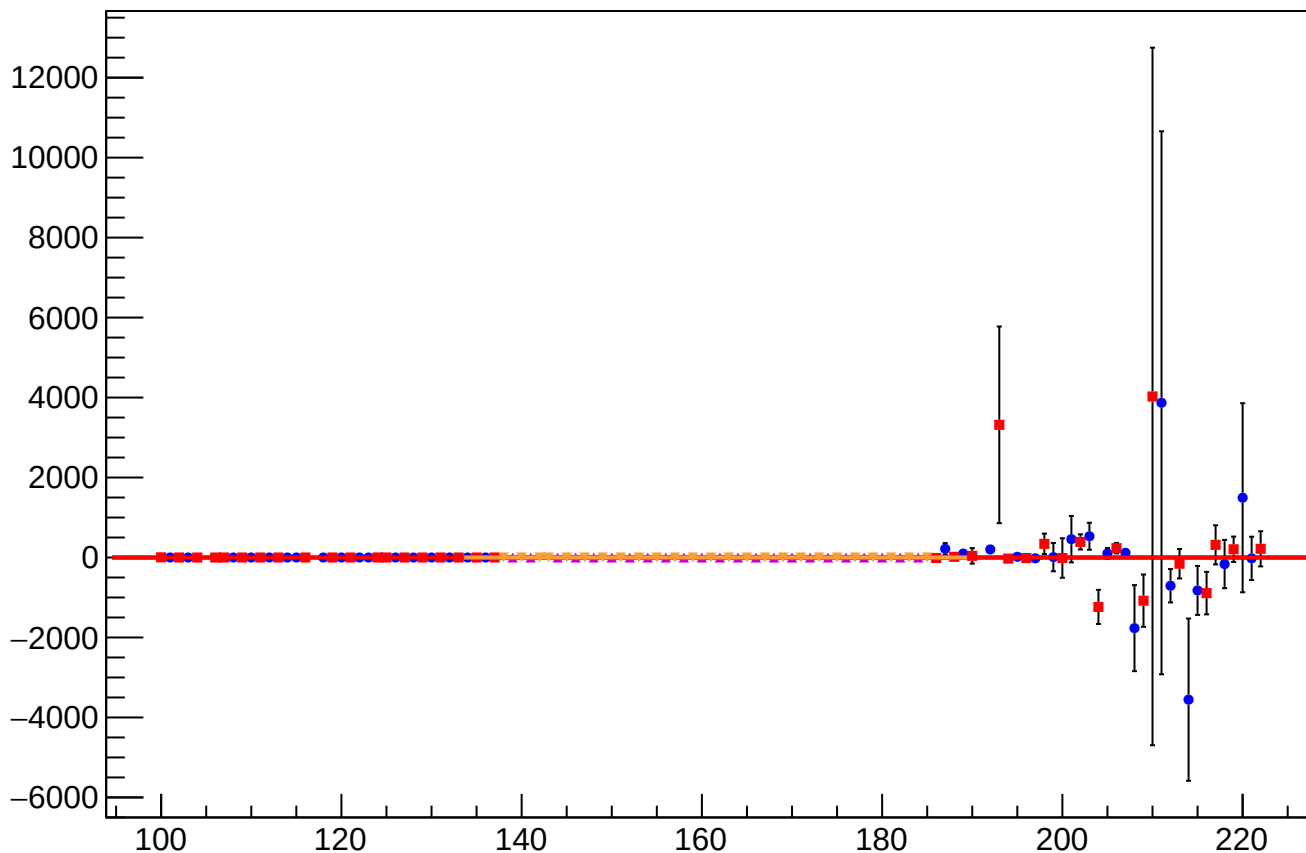
Right: 82.219+/-13.536 χ^2/NDF : 52.2/35

In: 0.002+/-0.028 χ^2/NDF :55.4/40

Out: 0.018+/-0.027 χ^2/NDF :93.6/42

All: 0.010+/-0.019 χ^2/NDF : 149.2/83

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 50.3/34

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 45.3/36

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

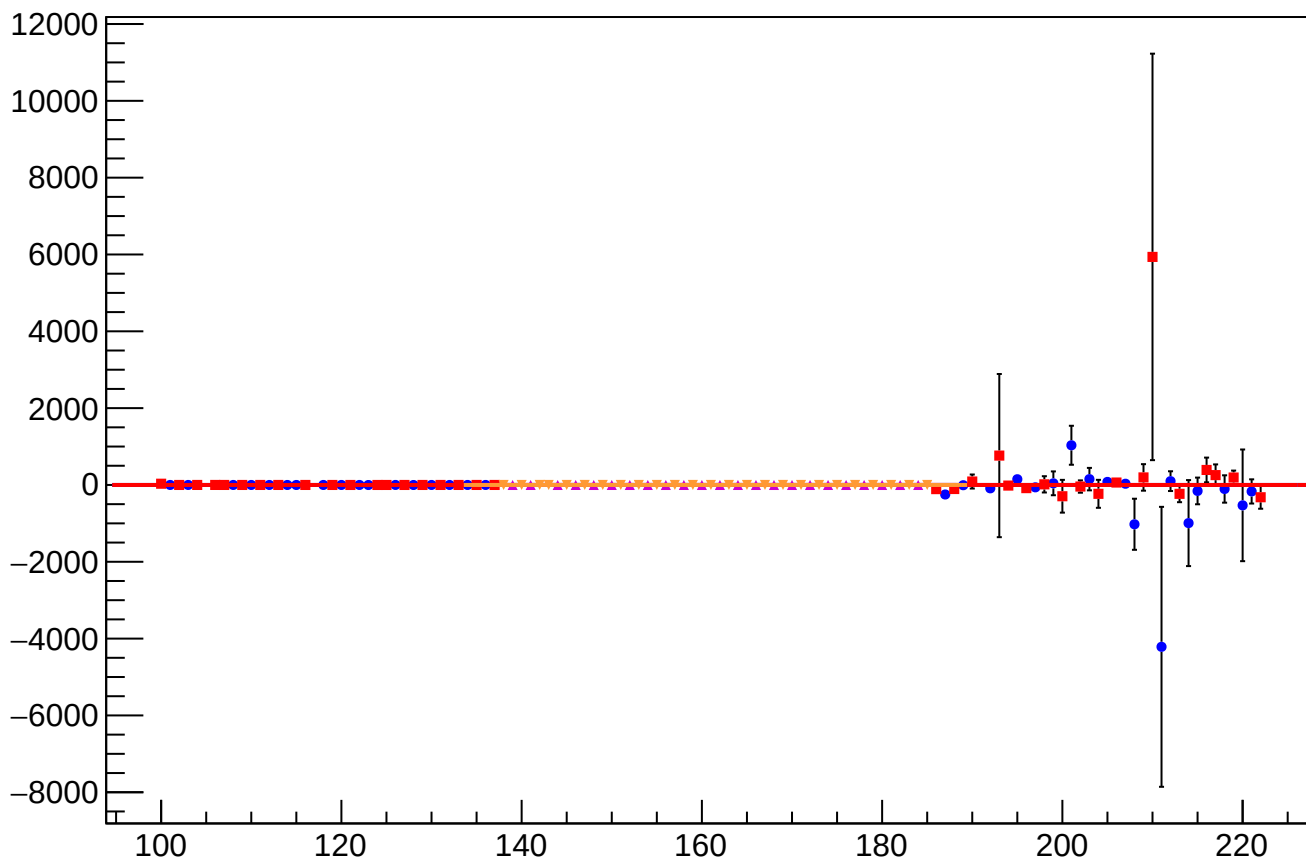
Right: -0.068 ± 0.027 χ^2/NDF : 98.9/71

In: -0.058 ± 0.019 χ^2/NDF : 100.5/57

Out: -0.073 ± 0.019 χ^2/NDF : 71.7/61

All: -0.066 ± 0.013 χ^2/NDF : 172.6/119

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 51.5/34

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 86.4/36

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

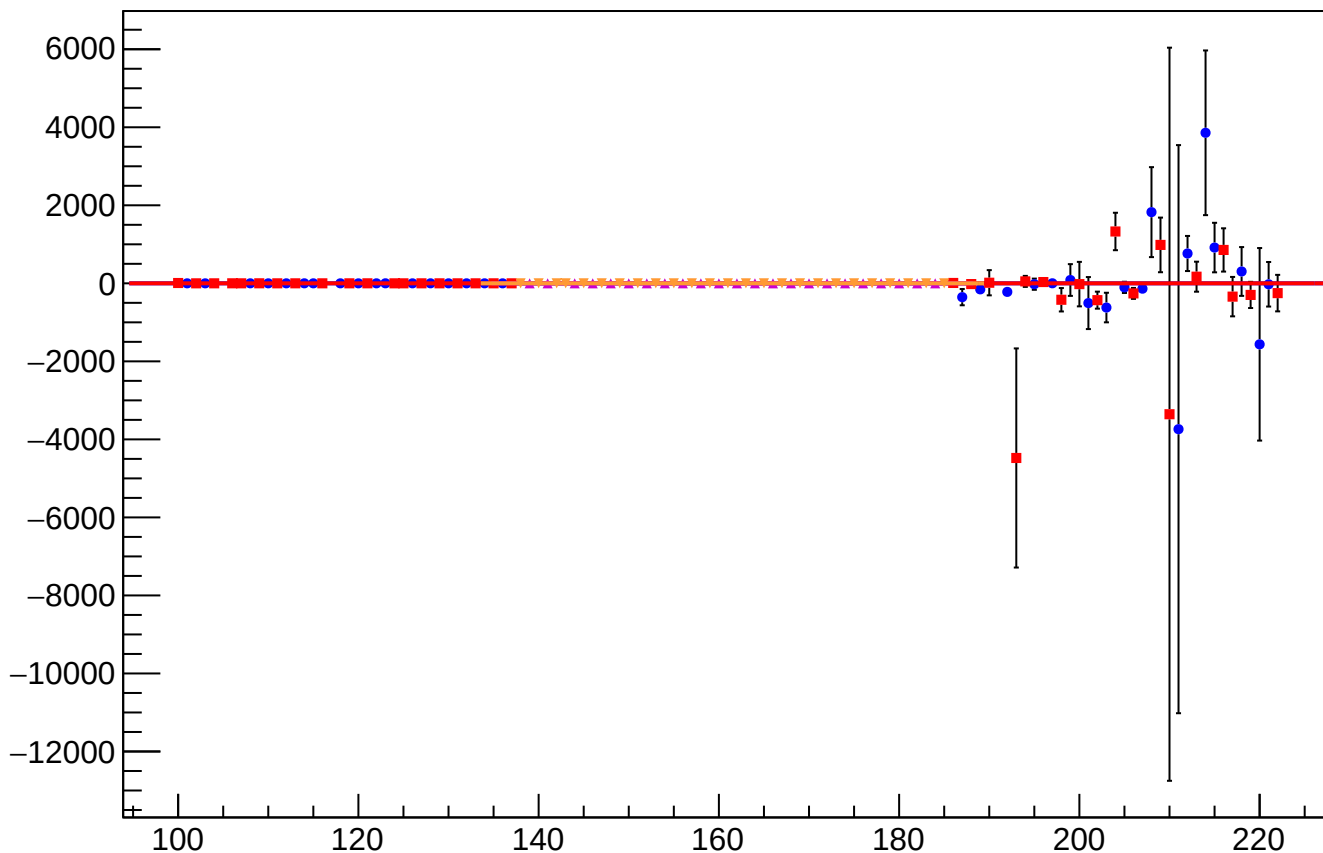
Right: -0.150 ± 0.049 χ^2/NDF : 138.0/71

In: -0.047 ± 0.025 χ^2/NDF : 81.9/57

Out: -0.037 ± 0.025 χ^2/NDF : 119.3/61

All: -0.042 ± 0.018 χ^2/NDF : 201.3/119

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.8/34

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 42.8/36

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

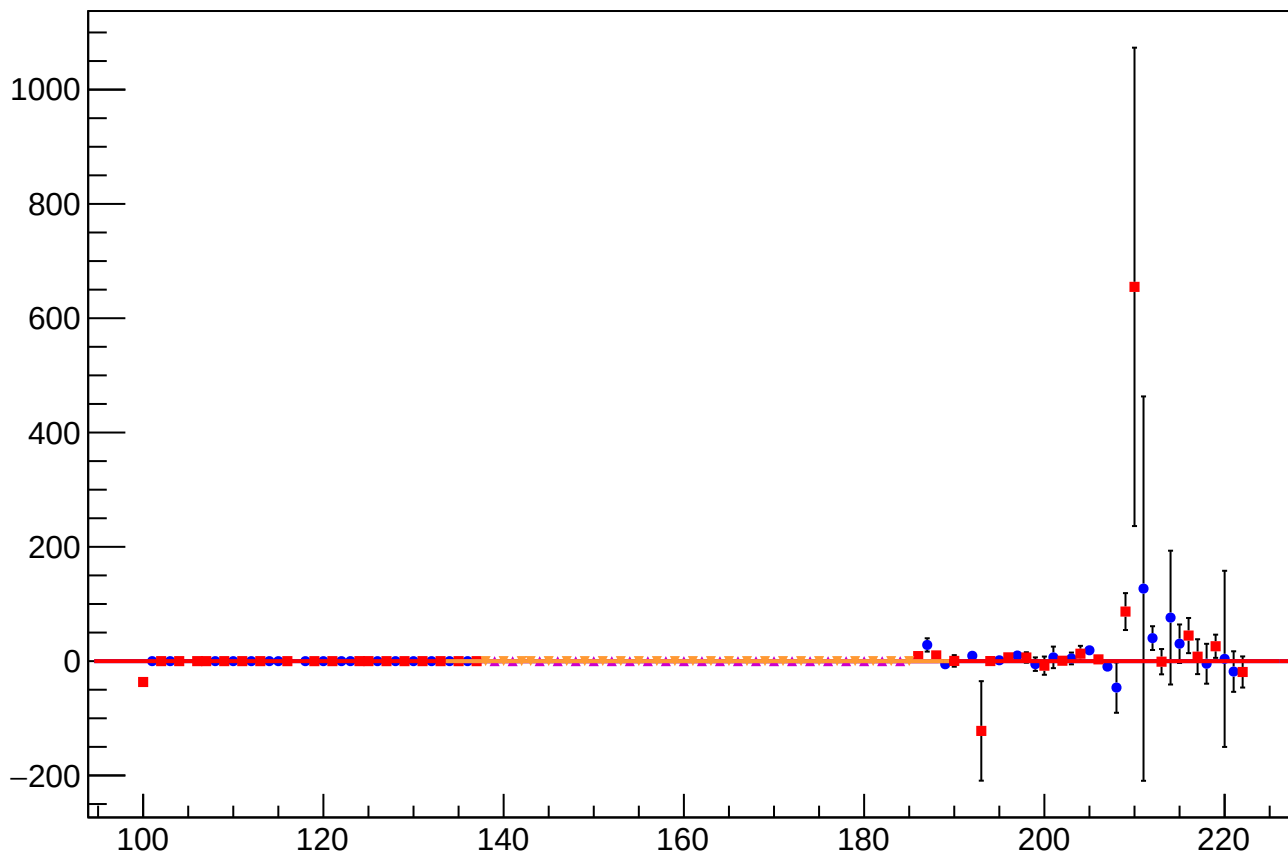
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 96.7/71

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.7/57

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:69.9/61

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 173.3/119

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 69.4/34

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10488.3/36

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

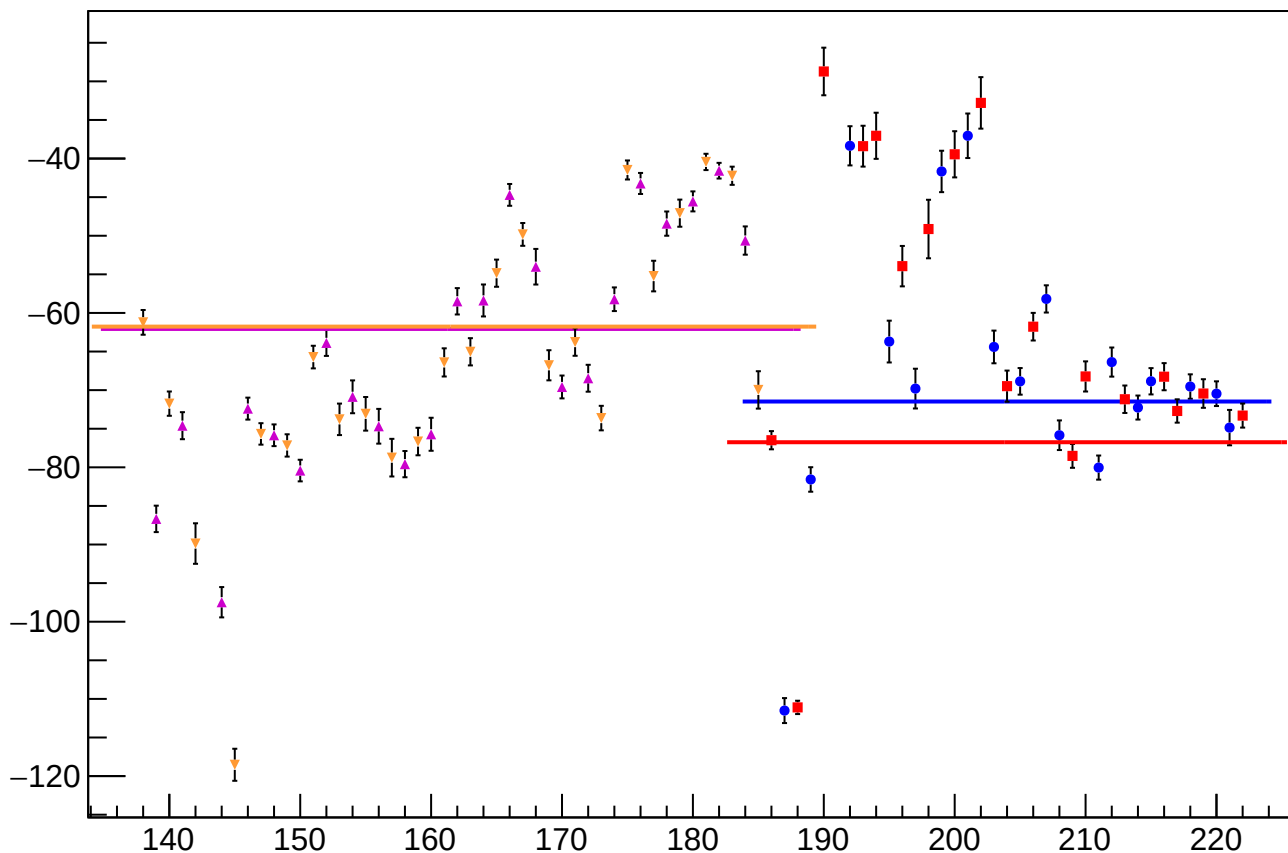
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10557.8/71

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 93.9/57

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10523.5/61

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10617.6/119

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.475 ± 0.445 $\chi^2/\text{NDF}: 1217.4/17$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -76.749 ± 0.413 $\chi^2/\text{NDF}: 2828.0/17$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

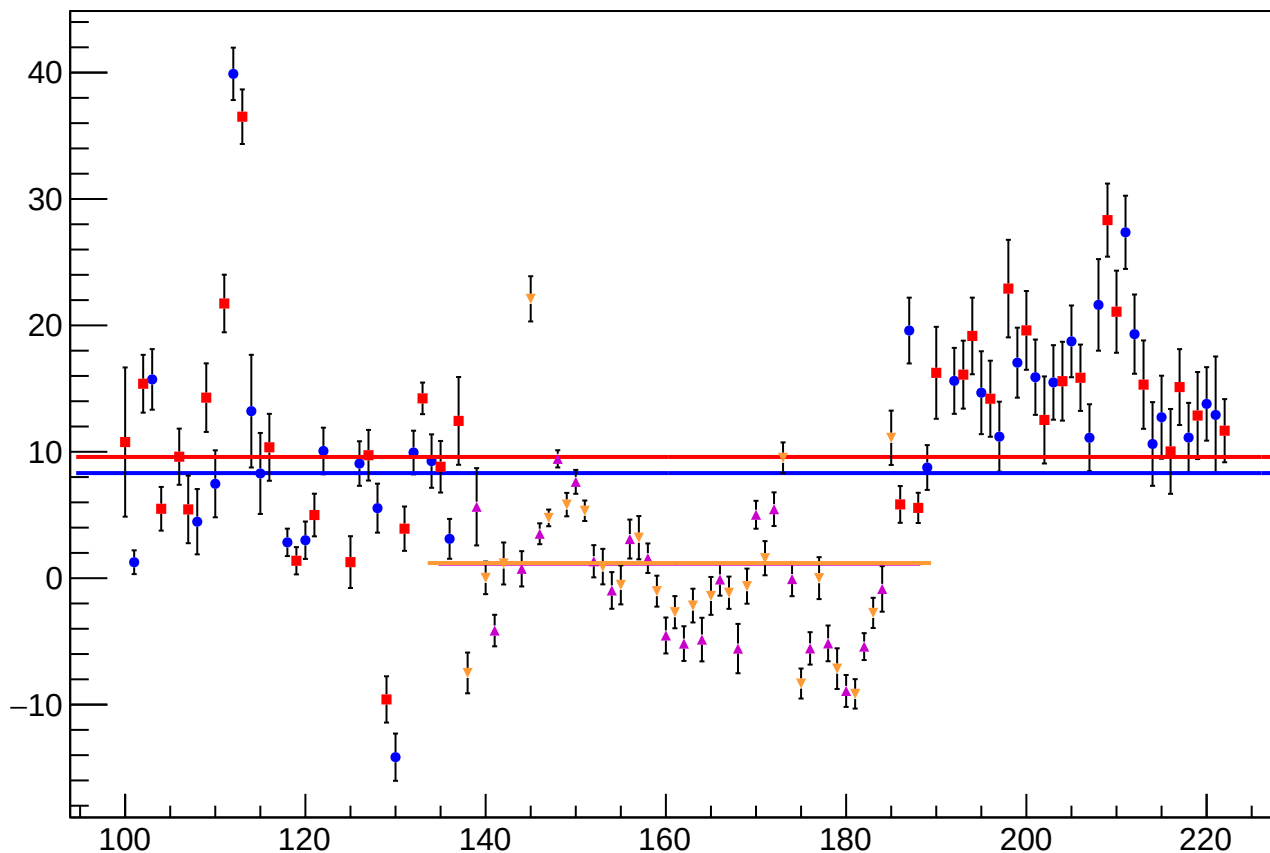
Right: -74.305 ± 0.303 $\chi^2/\text{NDF}: 4120.9/35$

In: -65.444 ± 0.266 $\chi^2/\text{NDF}: 3696.3/40$

Out: -67.689 ± 0.260 $\chi^2/\text{NDF}: 6127.9/41$

All: -66.594 ± 0.186 $\chi^2/\text{NDF}: 9860.7/82$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.315 ± 0.361 $\chi^2/\text{NDF}: 644.9/33$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.591 ± 0.360 $\chi^2/\text{NDF}: 552.2/35$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

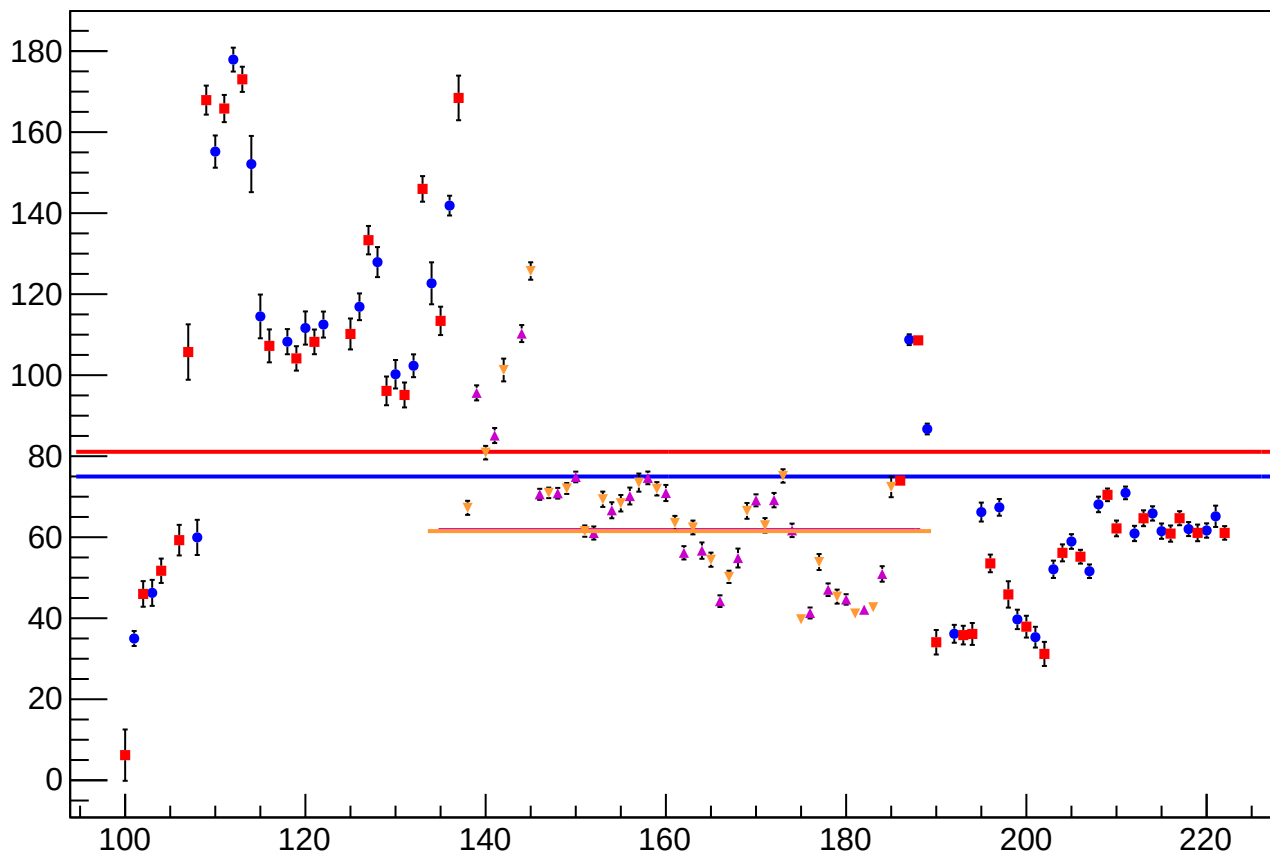
Right: 8.956 ± 0.255 $\chi^2/\text{NDF}: 1203.3/69$

In: 3.532 ± 0.209 $\chi^2/\text{NDF}: 1370.2/56$

Out: 3.967 ± 0.207 $\chi^2/\text{NDF}: 1442.8/59$

All: 3.752 ± 0.147 $\chi^2/\text{NDF}: 2815.3/116$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 74.983 $\pm$ 0.383 χ^2 /NDF: 6219.4/33

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 81.086 $\pm$ 0.347 χ^2 /NDF: 8119.8/35

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

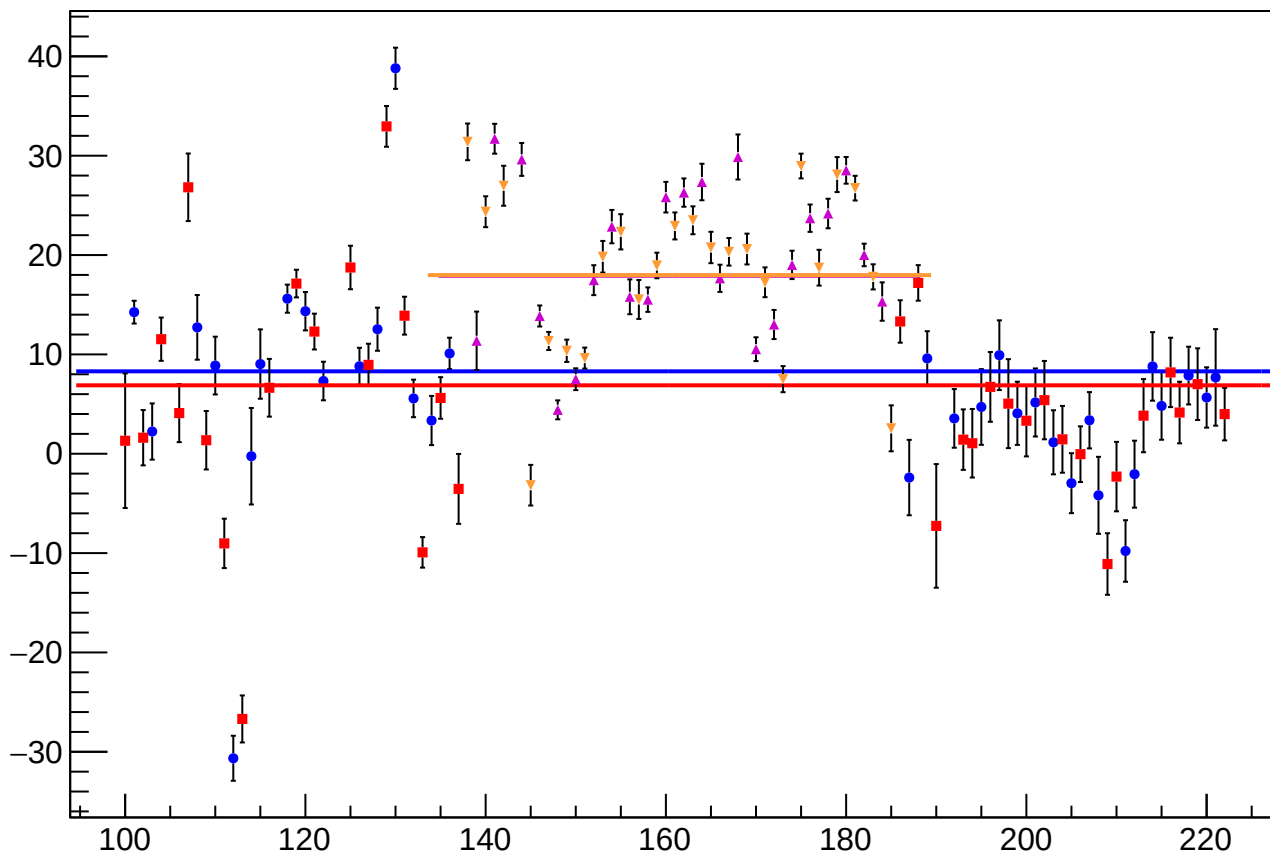
Right: 78.334 $\pm$ 0.257 χ^2 /NDF: 14478.7/69

In: 67.396 $\pm$ 0.250 χ^2 /NDF:9321.8/56

Out: 70.875 $\pm$ 0.240 χ^2 /NDF:12385.2/59

All: 69.206 $\pm$ 0.173 χ^2 /NDF: 21807.8/116

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.296 $\pm$ 0.419 χ^2 /NDF: 688.7/33

Left Out: 17.980 $\pm$ 0.291 χ^2 /NDF: 674.4/23

Right Out: 6.887 $\pm$ 0.425 χ^2 /NDF: 794.7/35

Left In: 17.916 $\pm$ 0.292 χ^2 /NDF: 726.5/22

Left: 17.948 $\pm$ 0.206 χ^2 /NDF: 1400.9/46

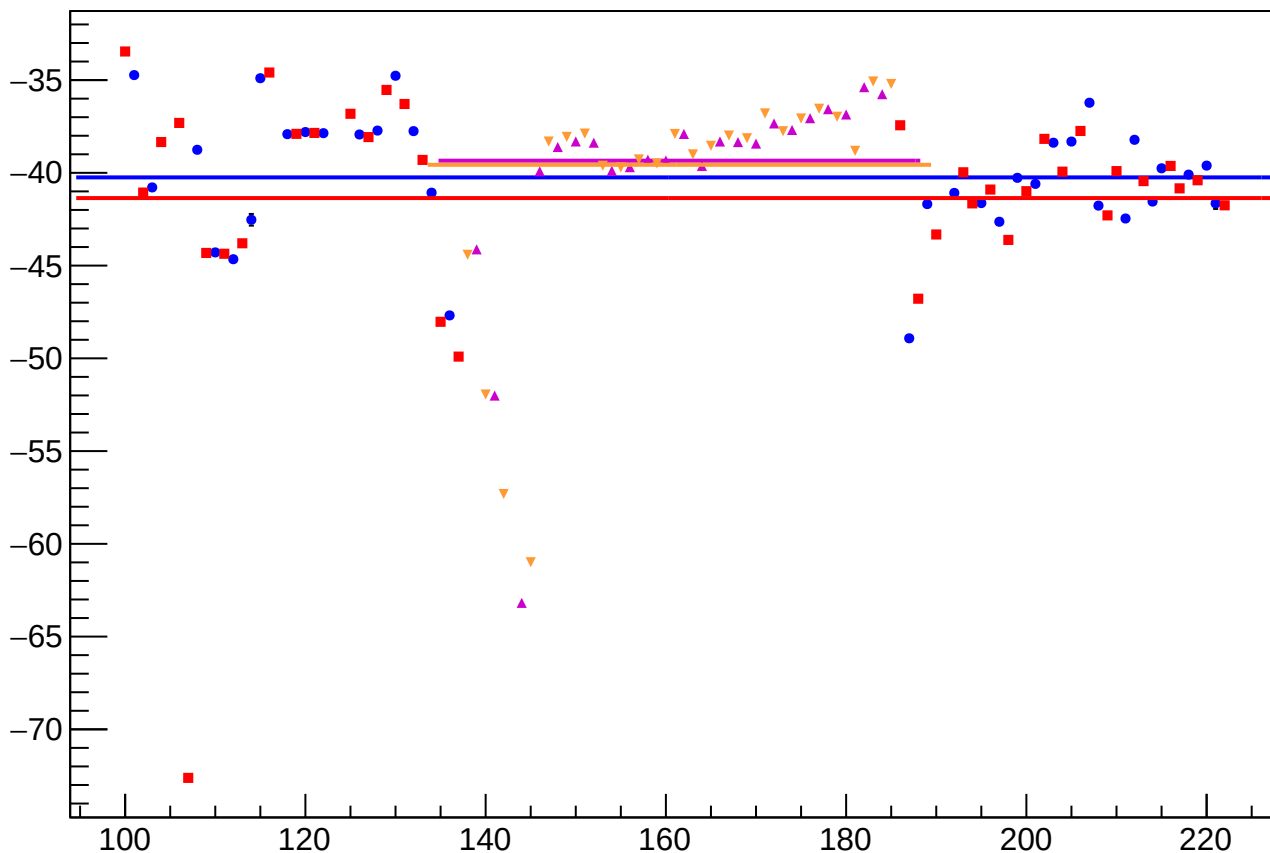
Right: 7.602 $\pm$ 0.298 χ^2 /NDF: 1489.0/69

In: 14.762 $\pm$ 0.240 χ^2 /NDF: 1770.3/56

Out: 14.438 $\pm$ 0.240 χ^2 /NDF: 1933.4/59

All: 14.600 $\pm$ 0.170 χ^2 /NDF: 3704.6/116

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.245 ± 0.021 χ^2/NDF : 29932.3/33

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.360 ± 0.021 χ^2/NDF : 68820.9/35

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

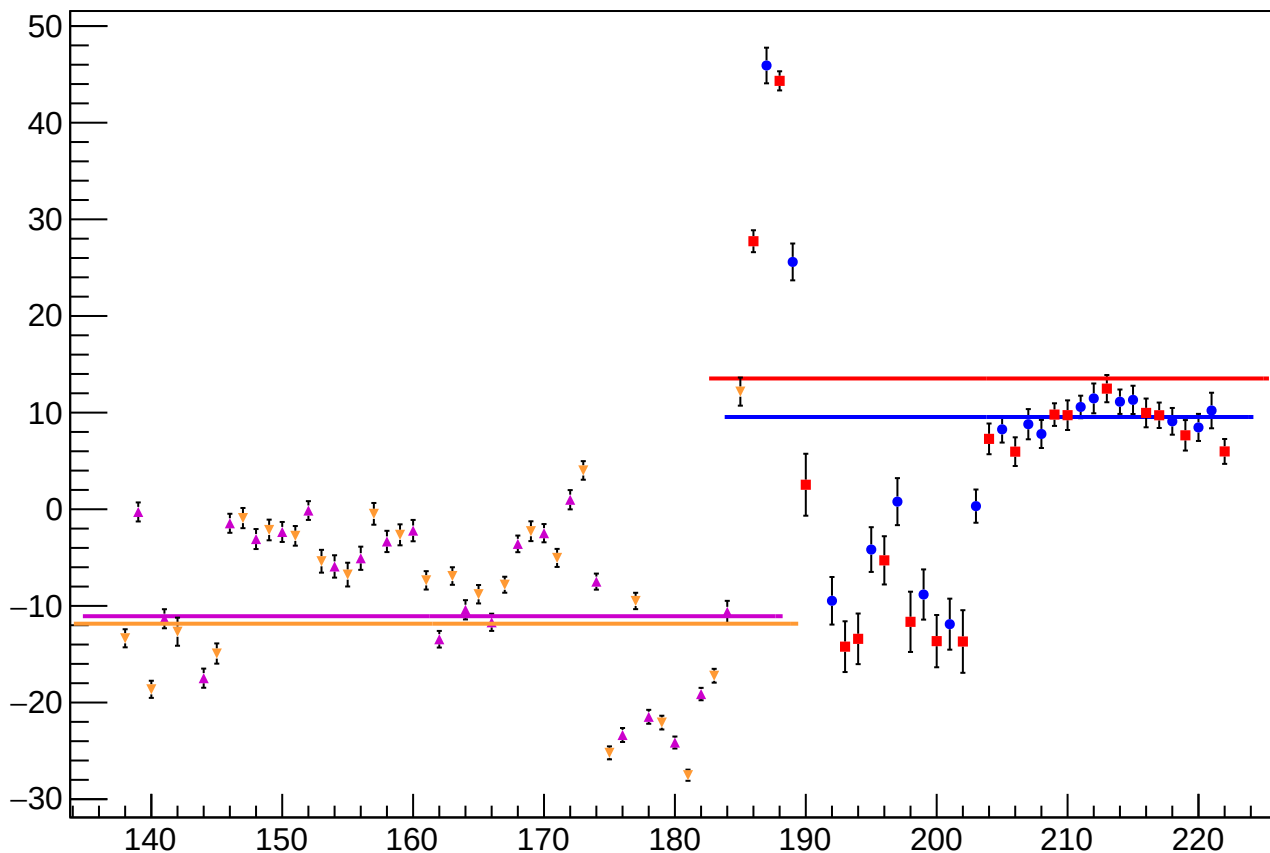
Right: -40.804 ± 0.015 χ^2/NDF : 100178.9/69

In: -39.612 ± 0.011 χ^2/NDF : 147854.9/56

Out: -40.109 ± 0.011 χ^2/NDF : 215183.0/59

All: -39.859 ± 0.008 χ^2/NDF : 363982.7/116

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.546 ± 0.386 $\chi^2/\text{NDF}: 720.9/17$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 13.532 ± 0.372 $\chi^2/\text{NDF}: 1767.9/17$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

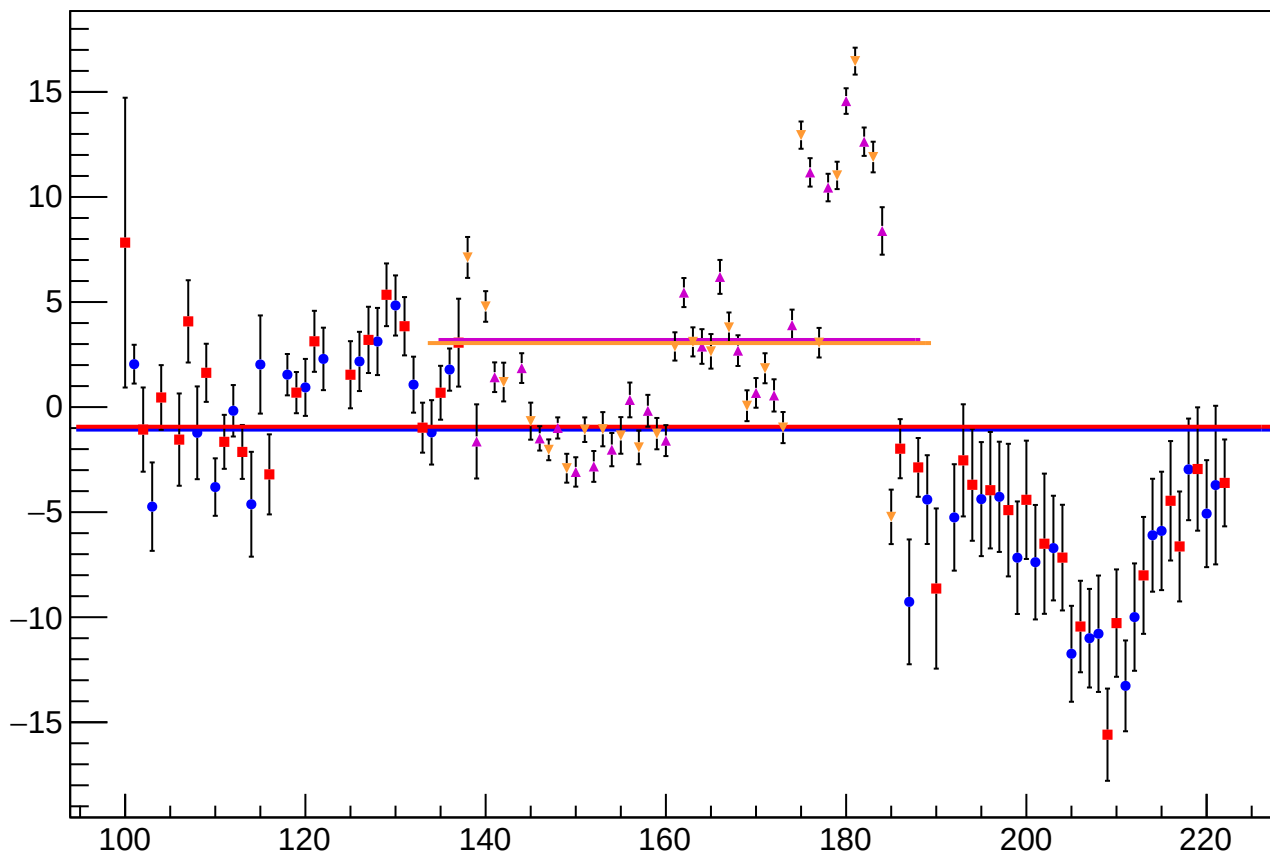
Right: 11.612 ± 0.268 $\chi^2/\text{NDF}: 2544.1/35$

In: -7.114 ± 0.169 $\chi^2/\text{NDF}: 5131.5/40$

Out: -6.733 ± 0.167 $\chi^2/\text{NDF}: 8222.4/41$

All: -6.921 ± 0.119 $\chi^2/\text{NDF}: 13356.5/82$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.071 ± 0.298 χ^2/NDF : 214.6/33

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.935 ± 0.298 χ^2/NDF : 182.9/35

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

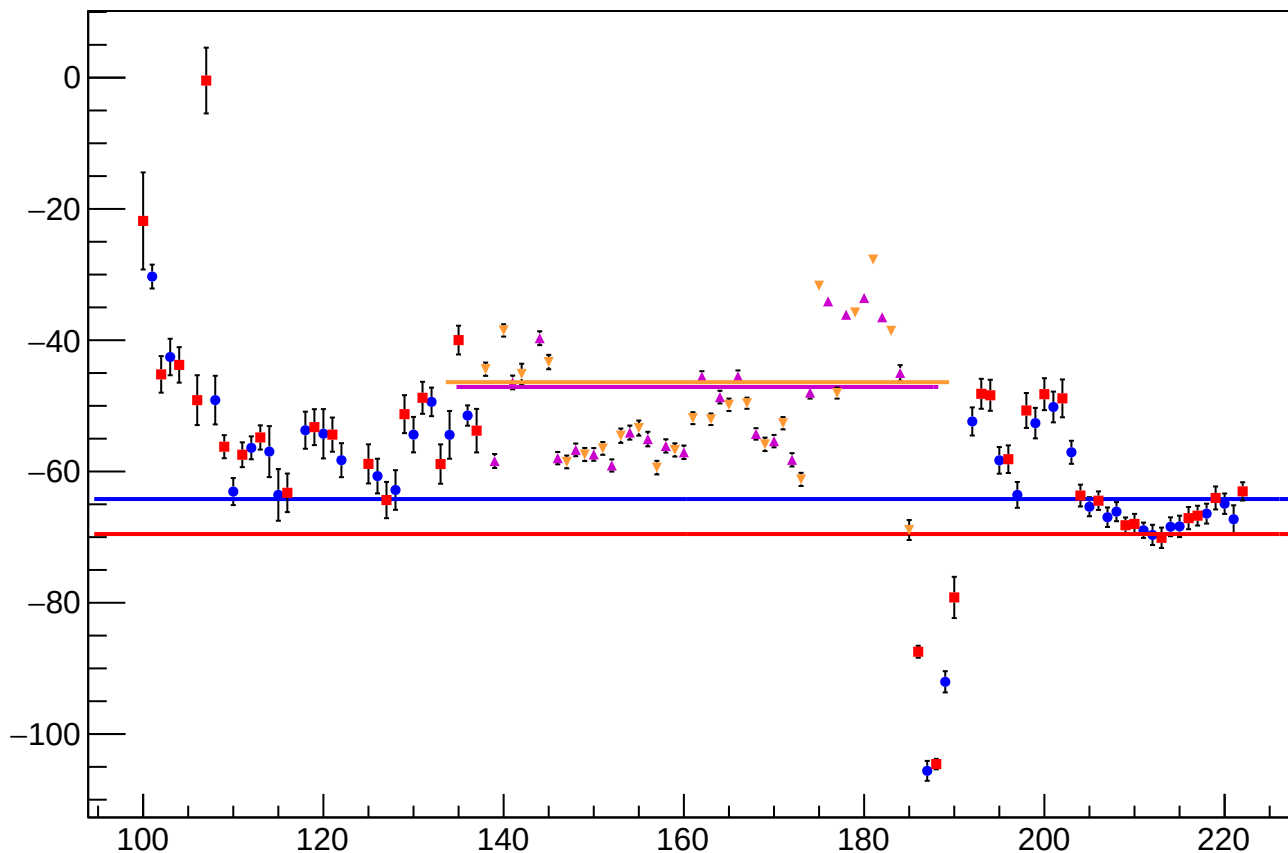
Right: -1.003 ± 0.211 χ^2/NDF : 397.6/69

In: 2.331 ± 0.134 χ^2/NDF : 1673.2/56

Out: 2.259 ± 0.132 χ^2/NDF : 1783.7/59

All: 2.295 ± 0.094 χ^2/NDF : 3457.0/116

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.198 ± 0.327 $\chi^2/\text{NDF}: 1823.8/33$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -69.531 ± 0.307 $\chi^2/\text{NDF}: 3775.6/35$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

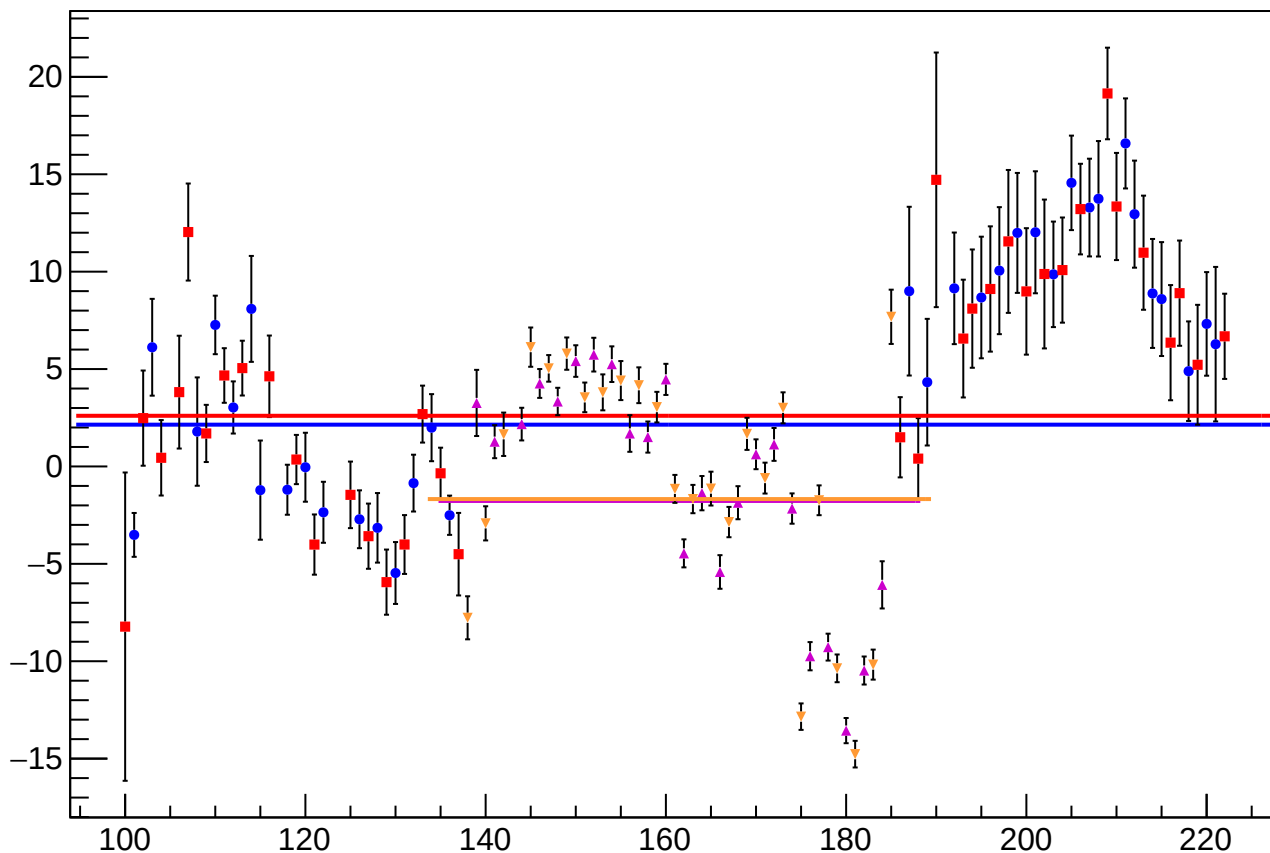
Right: -67.029 ± 0.224 $\chi^2/\text{NDF}: 5740.6/69$

In: -51.340 ± 0.162 $\chi^2/\text{NDF}: 6392.0/56$

Out: -52.621 ± 0.159 $\chi^2/\text{NDF}: 11202.9/59$

All: -51.992 ± 0.114 $\chi^2/\text{NDF}: 17626.6/116$

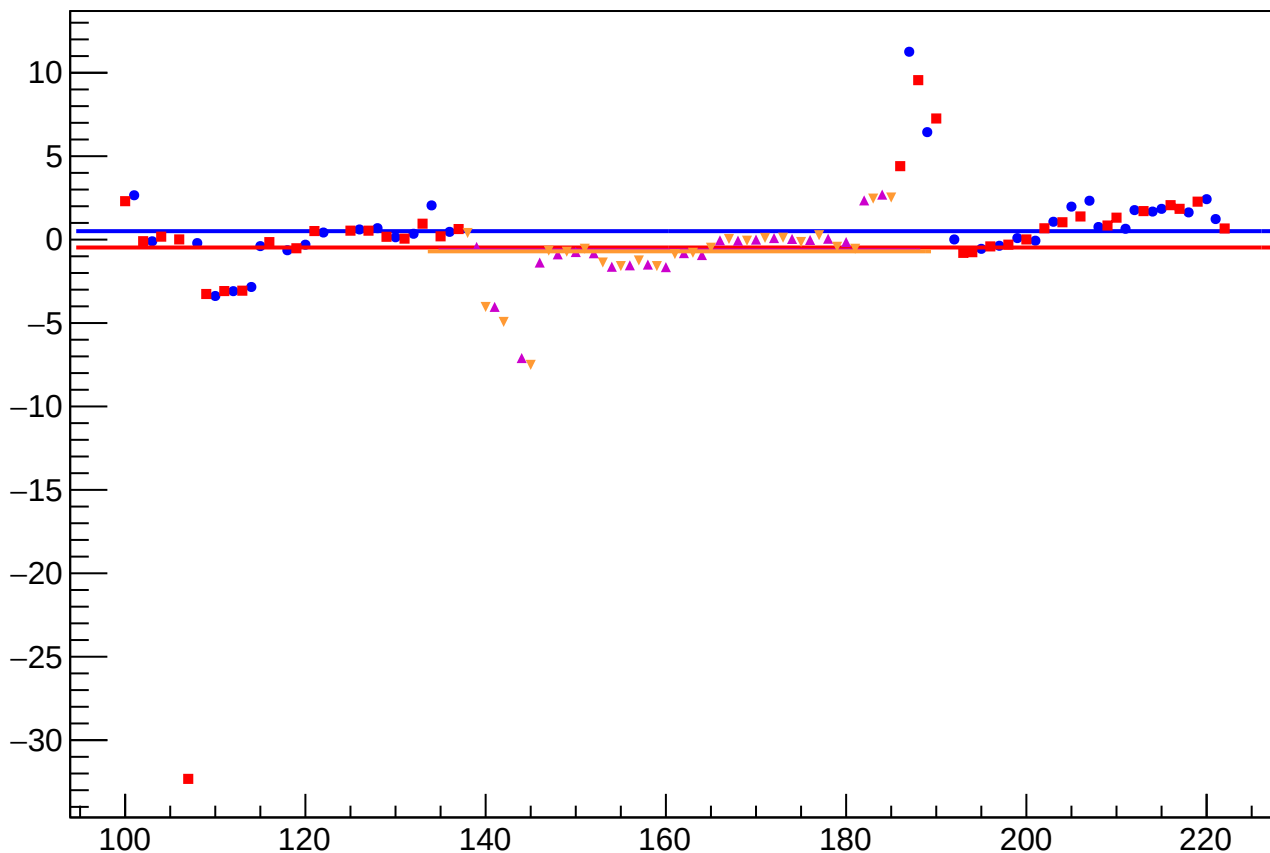
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.145 ± 0.336 $\chi^2/\text{NDF}: 310.8/33$
 Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$
 Right Out: 2.601 ± 0.341 $\chi^2/\text{NDF}: 266.4/35$
 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: 2.370 ± 0.239 $\chi^2/\text{NDF}: 578.2/69$
 In: -0.983 ± 0.151 $\chi^2/\text{NDF}: 1670.3/56$
 Out: -0.847 ± 0.150 $\chi^2/\text{NDF}: 1877.1/59$
 All: -0.915 ± 0.106 $\chi^2/\text{NDF}: 3547.8/116$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.507 ± 0.017 χ^2/NDF : 10439.1/33

Left Out: -0.702 ± 0.008 χ^2/NDF : 53834.9/23

Right Out: -0.473 ± 0.017 χ^2/NDF : 94802.3/35

Left In: -0.644 ± 0.008 χ^2/NDF : 44169.2/22

Left: -0.673 ± 0.005 χ^2/NDF : 98032.6/46

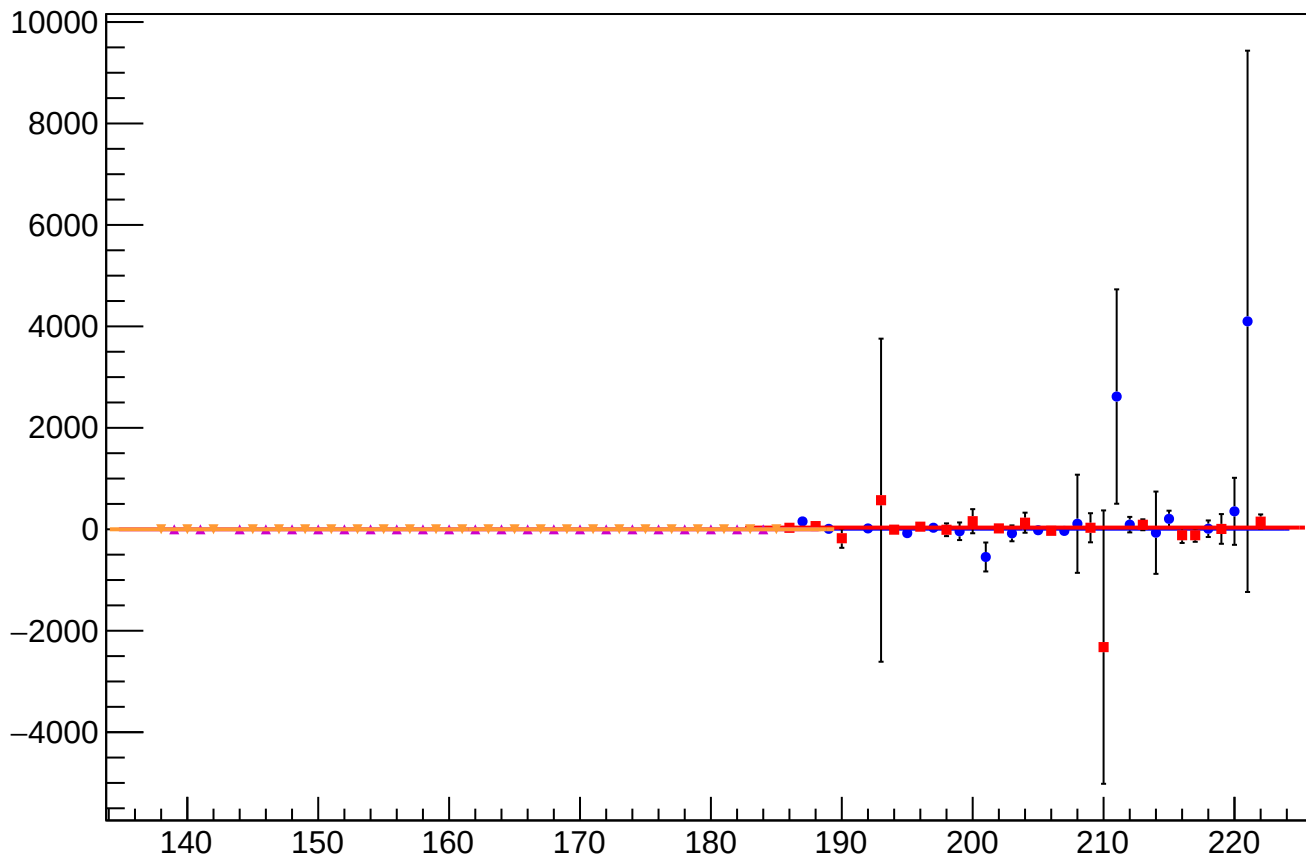
Right: 0.020 ± 0.012 χ^2/NDF : 106896.1/69

In: -0.449 ± 0.007 χ^2/NDF : 58422.3/56

Out: -0.664 ± 0.007 χ^2/NDF : 148787.3/59

All: -0.556 ± 0.005 χ^2/NDF : 207681.5/116

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.863+/-15.003 χ^2/NDF : 23.5/17

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 33.471+/-9.560 χ^2/NDF : 10.6/17

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

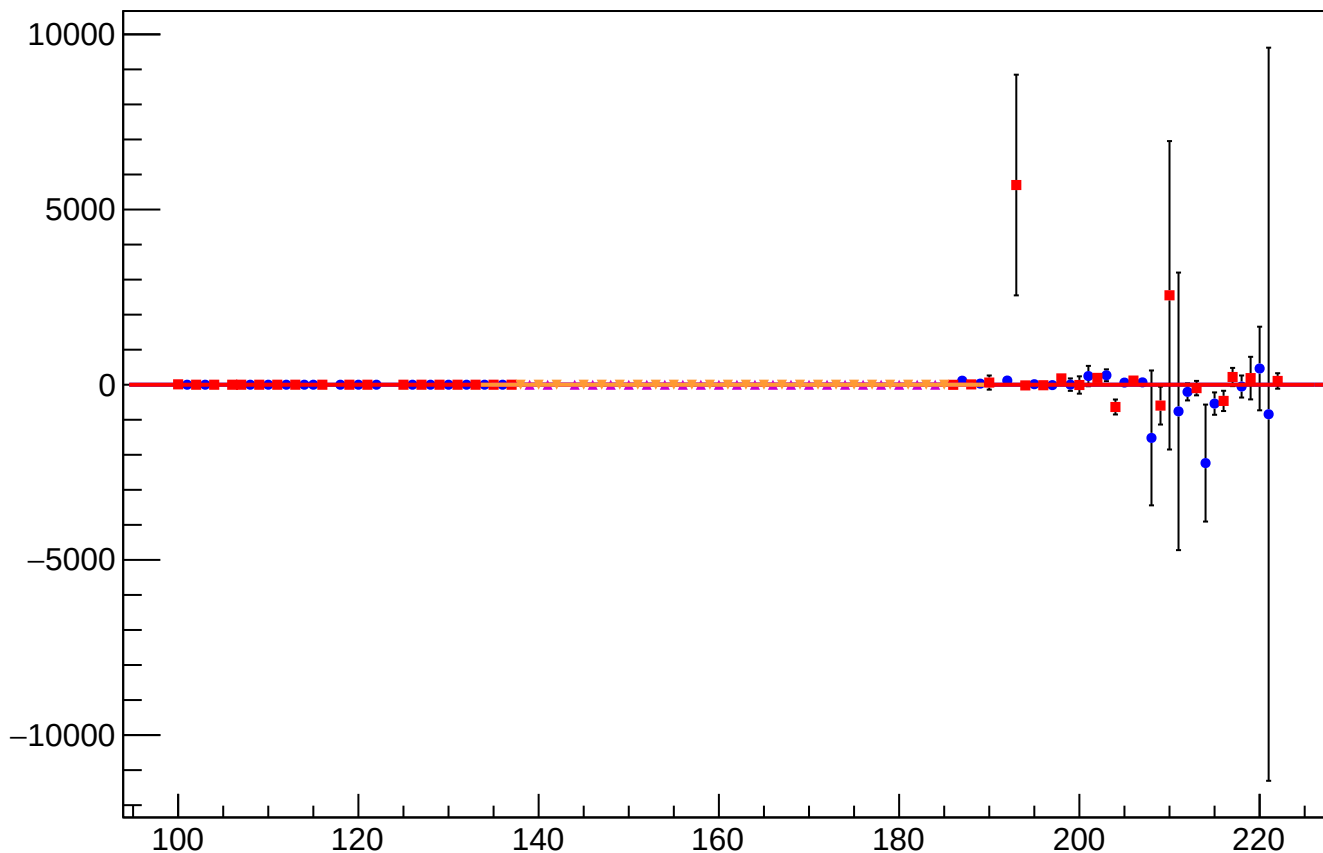
Right: 27.231+/-8.062 χ^2/NDF : 35.6/35

In: -0.010+/-0.018 χ^2/NDF : 59.3/40

Out: -0.037+/-0.018 χ^2/NDF : 58.3/41

All: -0.024+/-0.013 χ^2/NDF : 118.7/82

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 29.7/33$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 40.2/35$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

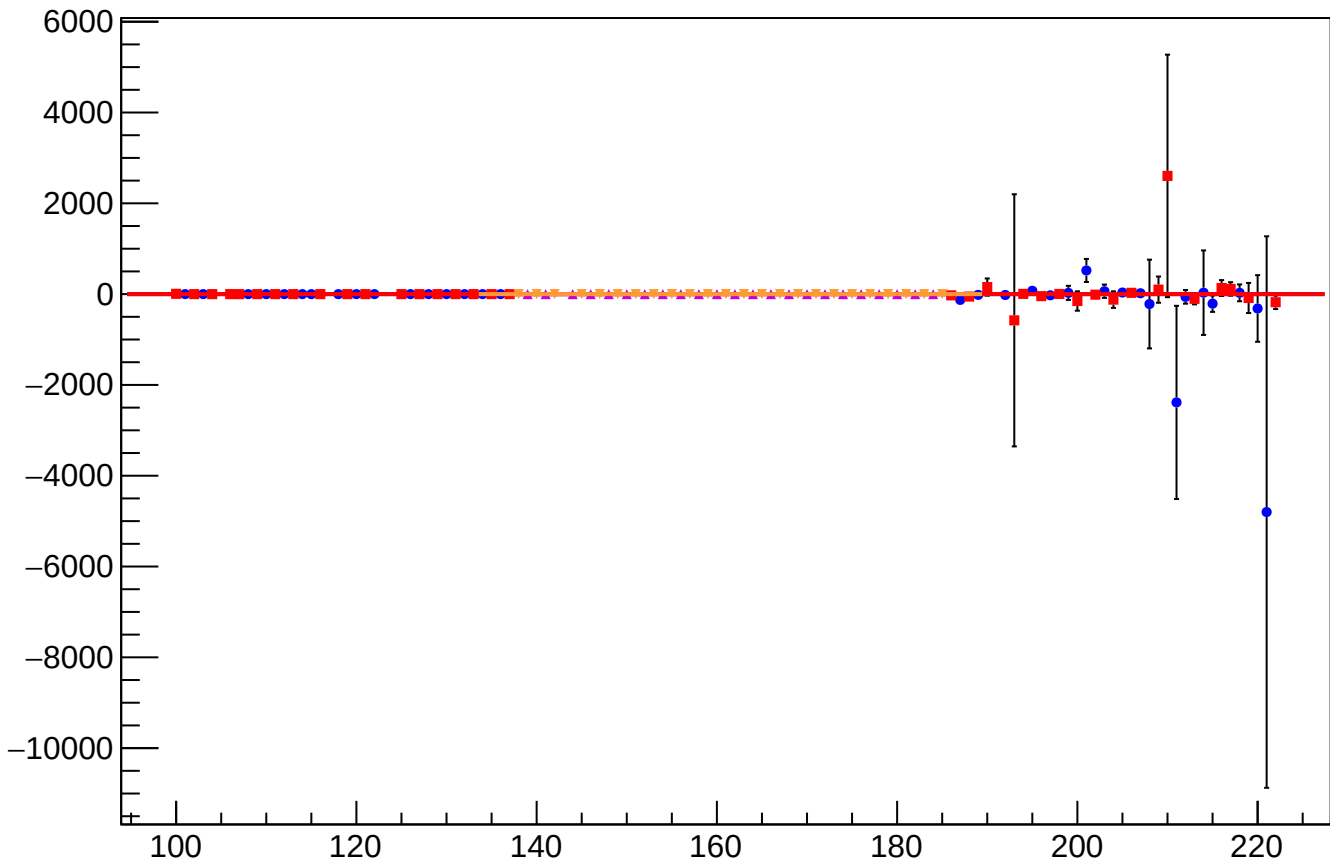
Right: -0.048 ± 0.017 $\chi^2/\text{NDF}: 74.6/69$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 74.1/56$

Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 68.3/59$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 144.7/116$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 33.8/33

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 35.1/35

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

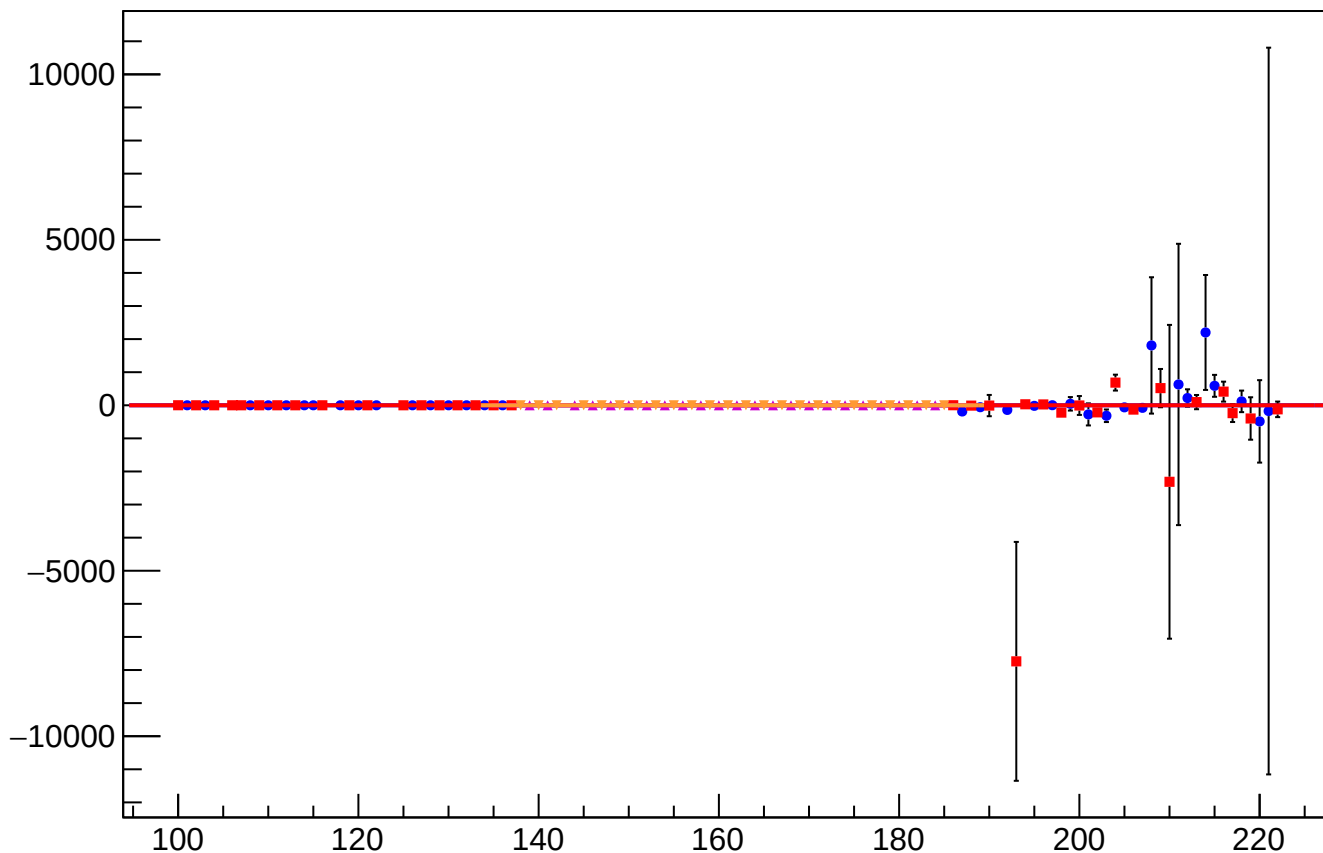
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 68.9/69

In: -0.005 $\pm$ 0.017 χ^2 /NDF:70.9/56

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:67.3/59

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 141.0/116

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 31.2/33

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 35.3/35

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

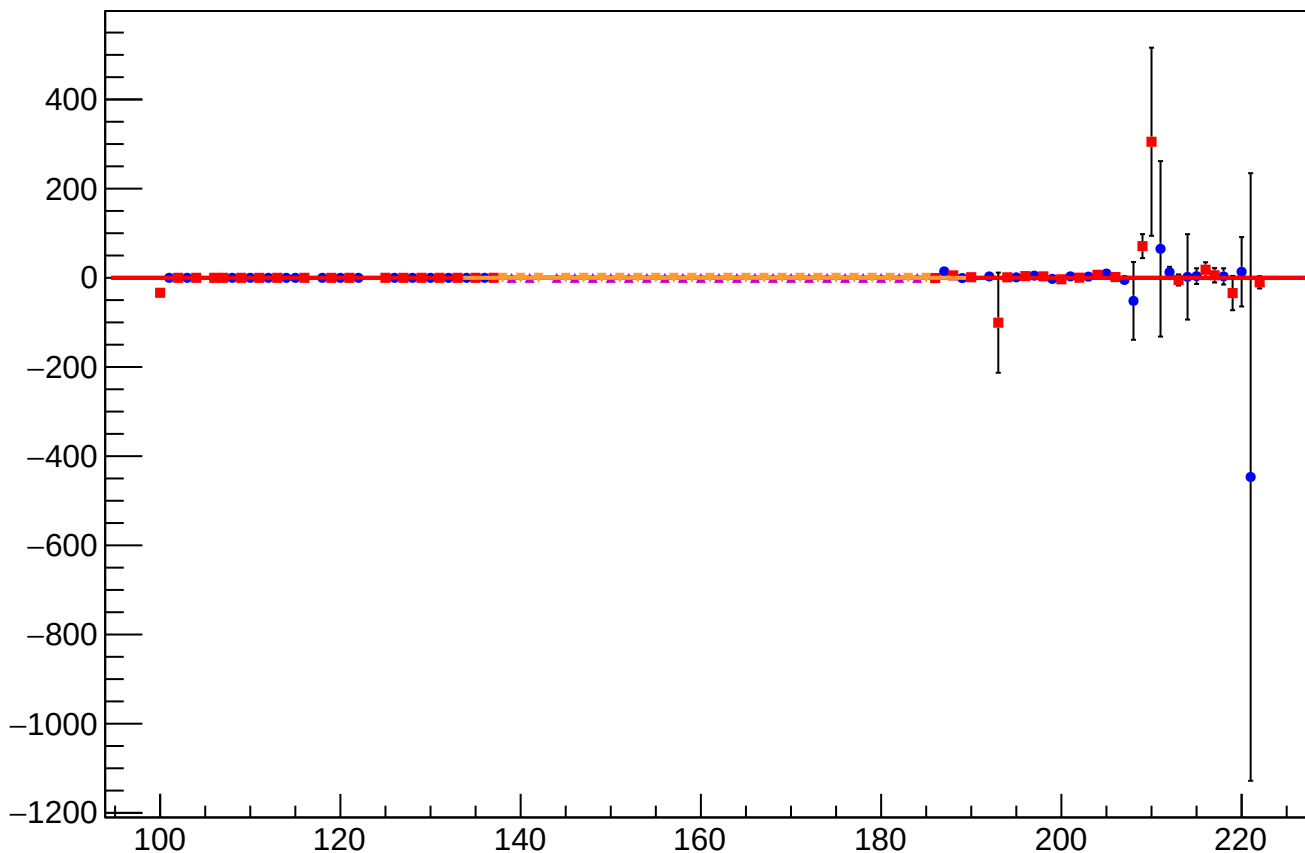
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 72.5/69

In: 0.053 $\pm$ 0.014 χ^2 /NDF:79.8/56

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:63.3/59

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 146.7/116

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 $\chi^2/\text{NDF}: 48.3/33$

Left Out: 0.000 ± 0.001 $\chi^2/\text{NDF}: 23.6/23$

Right Out: -0.006 ± 0.001 $\chi^2/\text{NDF}: 26533.4/35$

Left In: 0.000 ± 0.001 $\chi^2/\text{NDF}: 22.3/22$

Left: 0.000 ± 0.001 $\chi^2/\text{NDF}: 45.9/46$

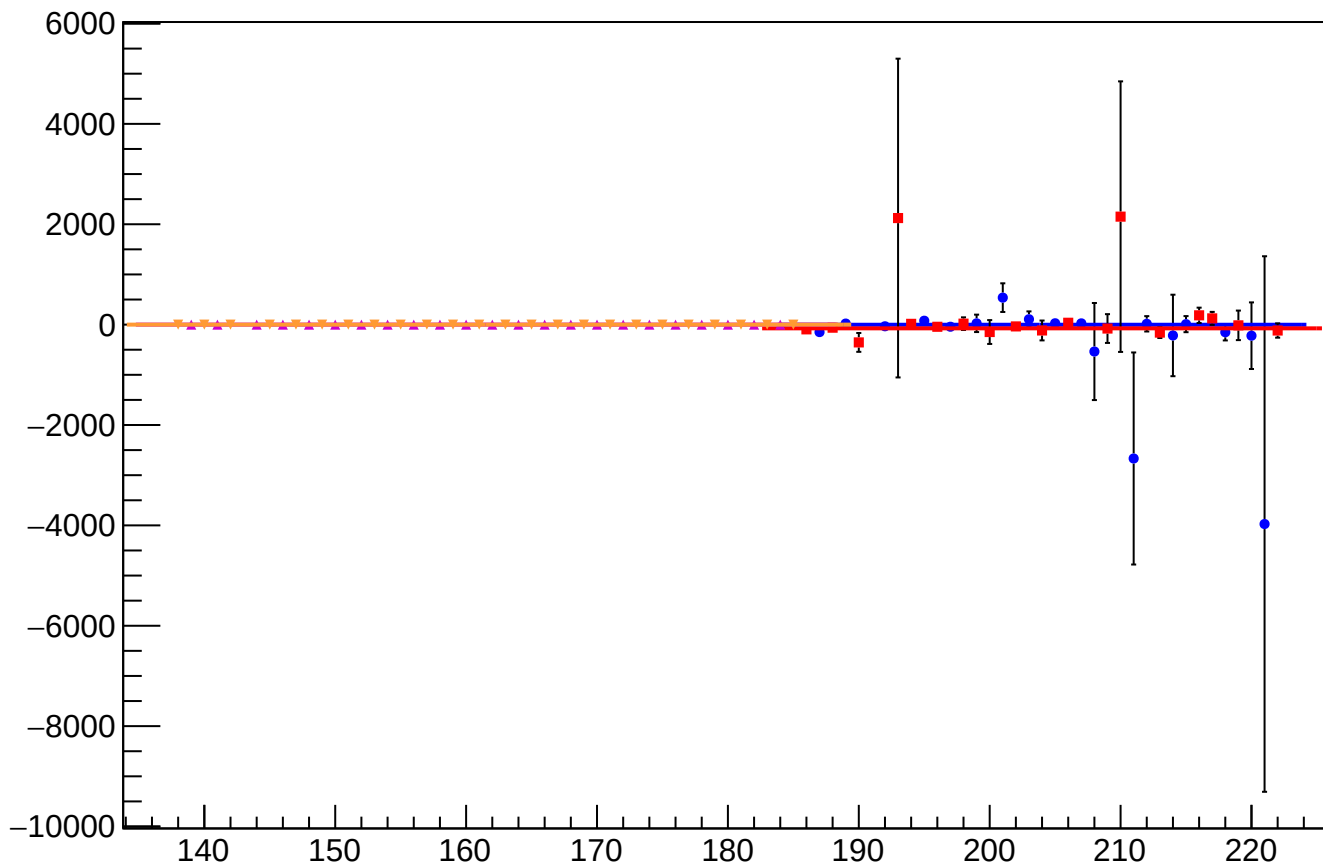
Right: -0.006 ± 0.001 $\chi^2/\text{NDF}: 26581.8/69$

In: -0.001 ± 0.001 $\chi^2/\text{NDF}: 82.3/56$

Out: -0.001 ± 0.001 $\chi^2/\text{NDF}: 26572.1/59$

All: -0.001 ± 0.000 $\chi^2/\text{NDF}: 26654.5/116$

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.575 ± 14.998 $\chi^2/\text{NDF}: 23.3/17$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.196 ± 9.562 $\chi^2/\text{NDF}: 22.0/17$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

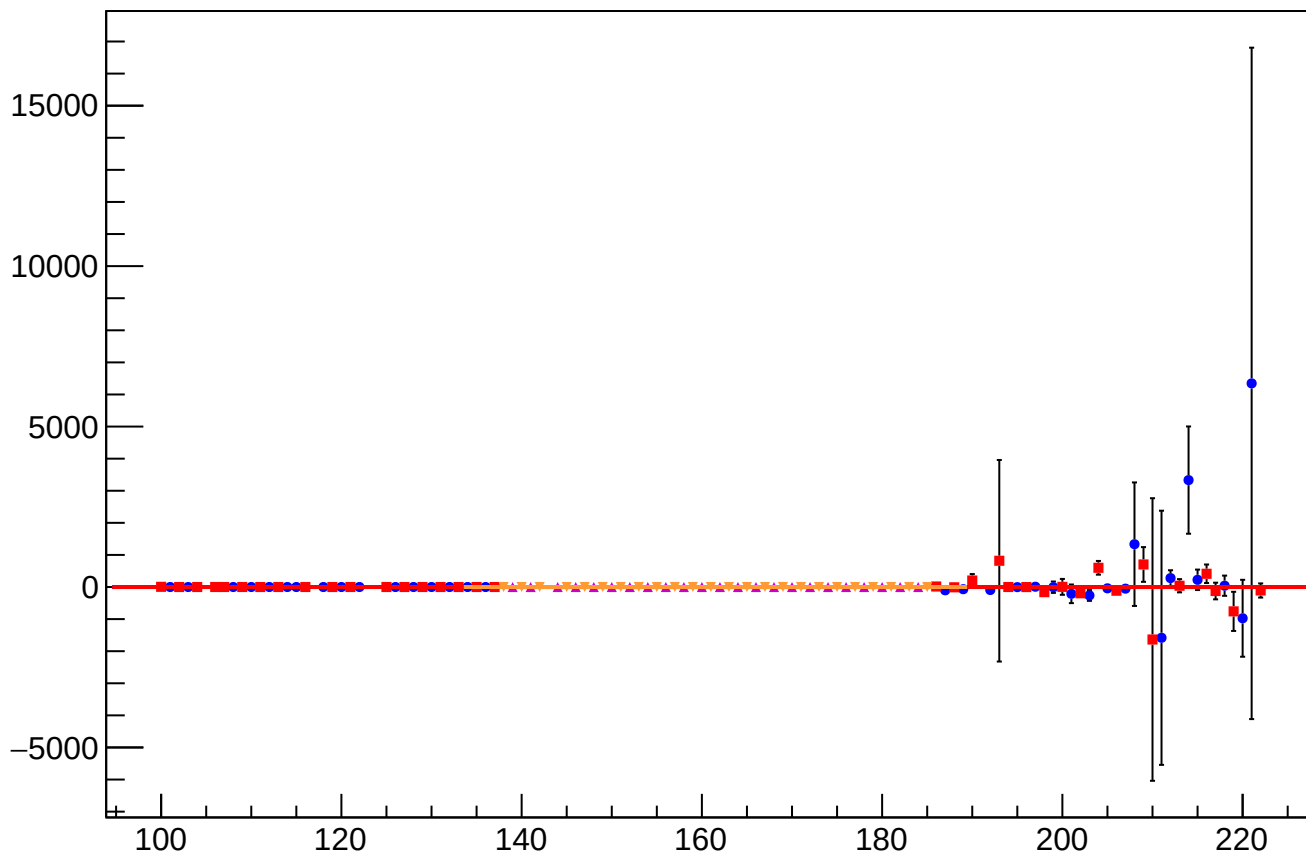
Right: -53.497 ± 8.063 $\chi^2/\text{NDF}: 61.6/35$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 58.5/40$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 119.5/41$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 180.9/82$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 44.7/33

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF: 29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 53.6/35

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

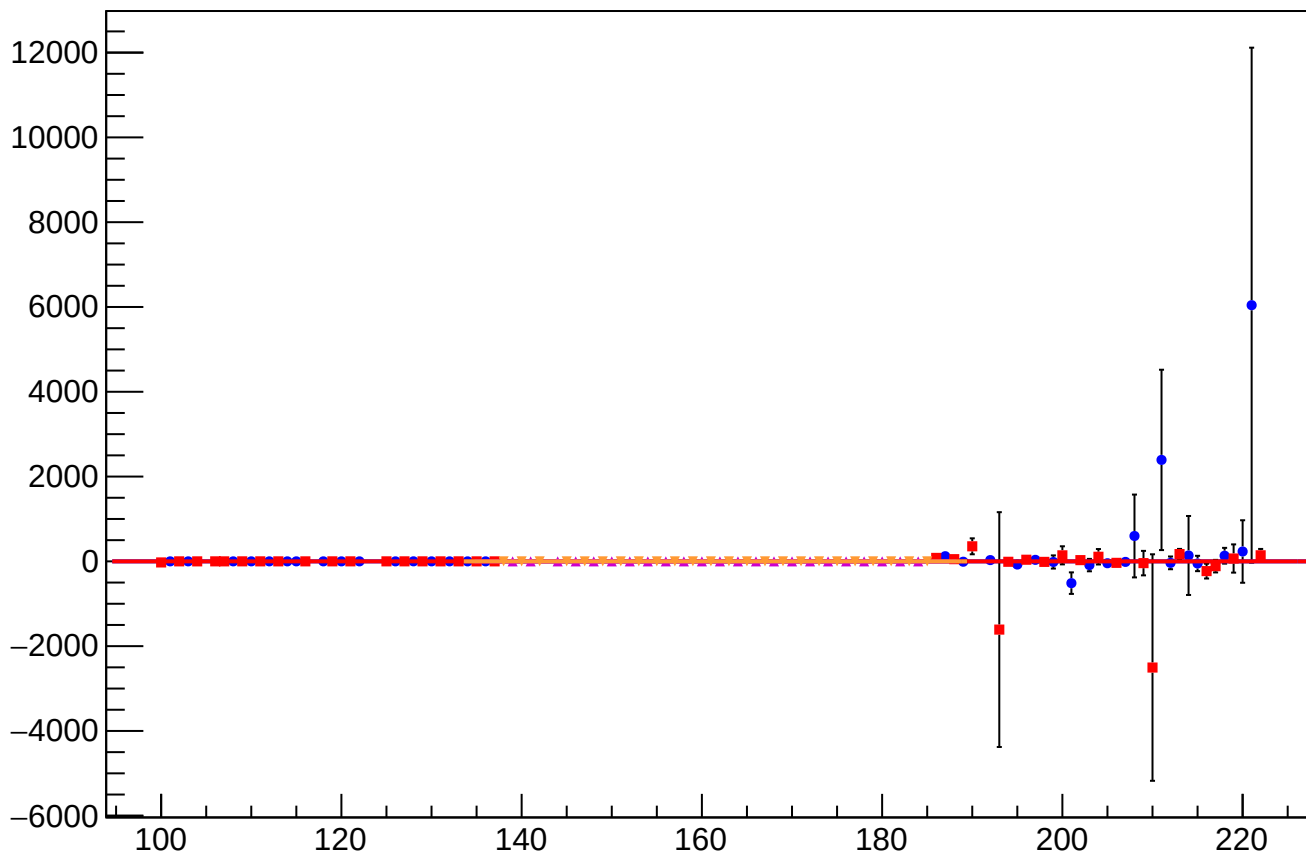
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 99.1/69

In: 0.006 $\pm$ 0.012 χ^2 /NDF: 94.3/56

Out: 0.001 $\pm$ 0.012 χ^2 /NDF: 86.0/59

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 180.4/116

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 53.6/33

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 114.8/35

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

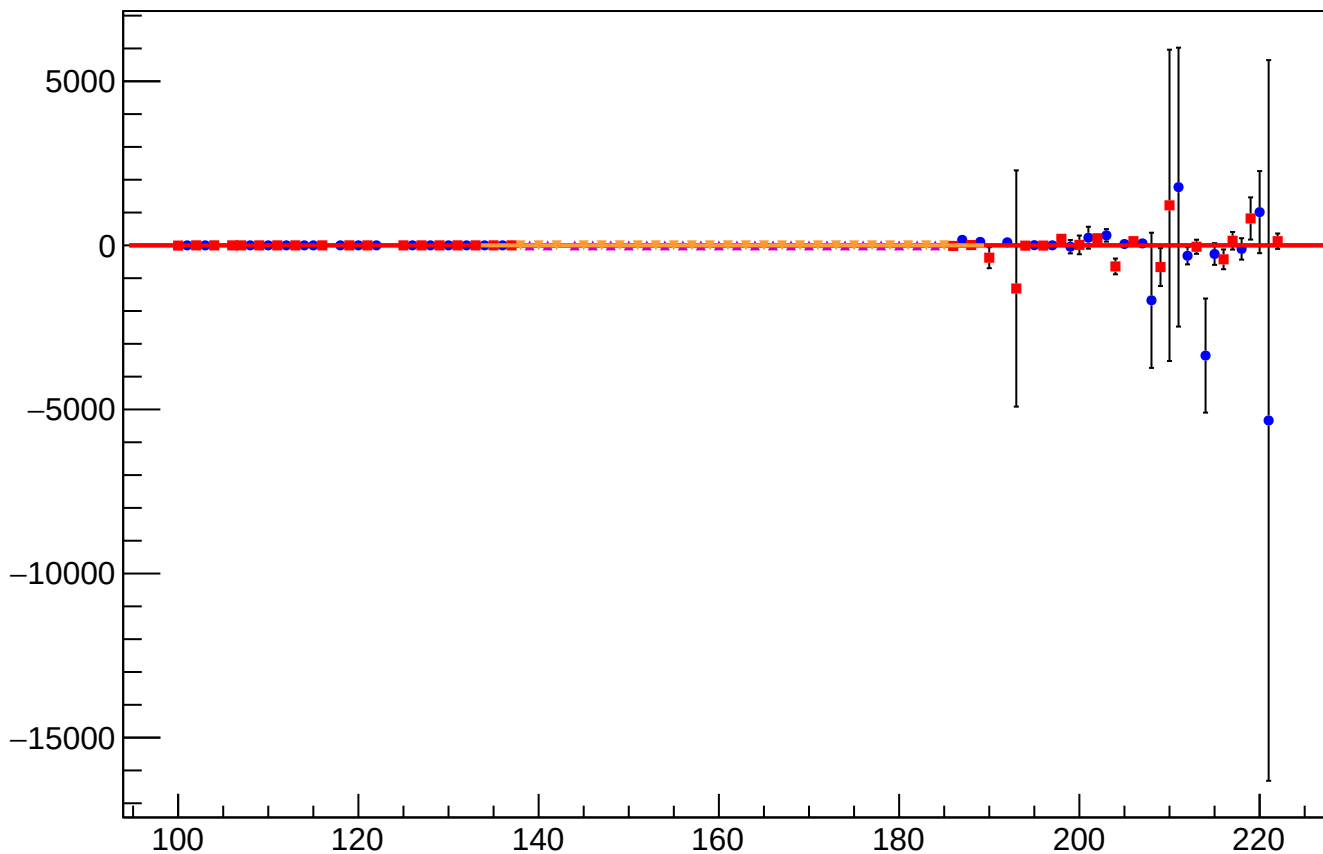
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 168.8/69

In: 0.040 $\pm$ 0.017 χ^2 /NDF:98.0/56

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:159.7/59

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 259.1/116

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 44.5/33

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 50.2/35

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

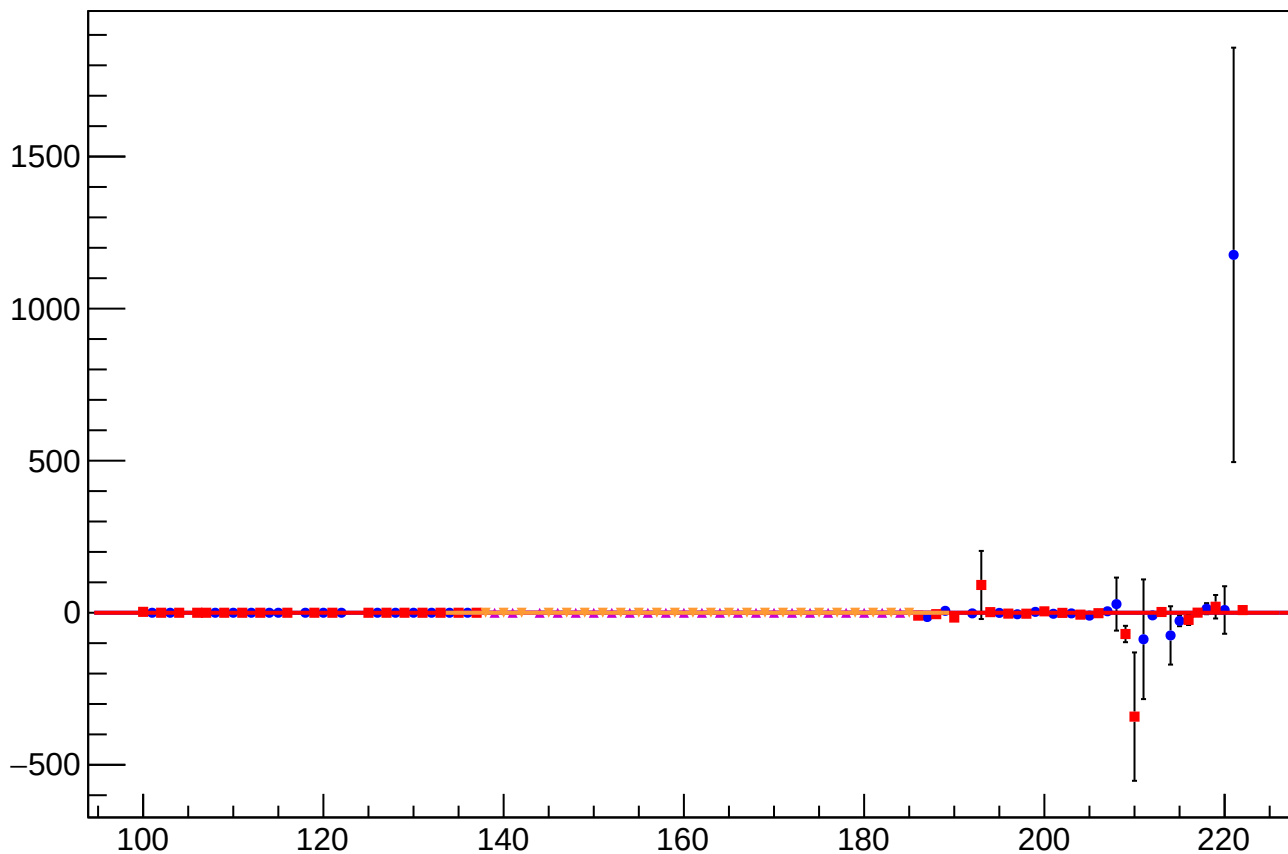
Right: -0.027 ± 0.020 χ^2/NDF : 95.5/69

In: 0.002 ± 0.014 χ^2/NDF : 94.8/56

Out: 0.005 ± 0.014 χ^2/NDF : 87.8/59

All: 0.004 ± 0.010 χ^2/NDF : 182.7/116

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 64.9/33

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 226.9/35

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

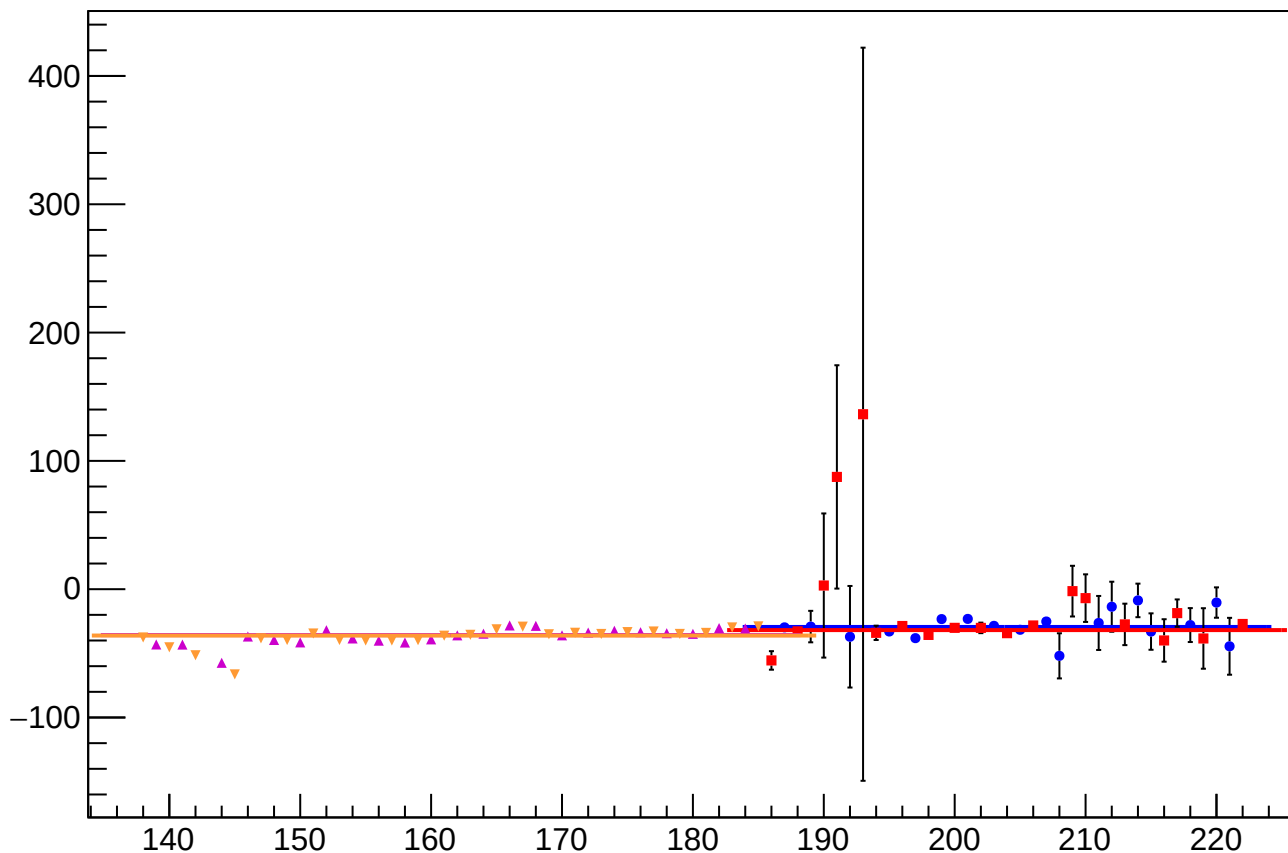
Right: -0.006 ± 0.001 χ^2/NDF : 291.8/69

In: -0.008 ± 0.001 χ^2/NDF : 104.6/56

Out: -0.008 ± 0.001 χ^2/NDF : 261.0/59

All: -0.008 ± 0.000 χ^2/NDF : 365.8/116

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.433 ± 0.849 χ^2/NDF : 32.0/17

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -31.882 ± 0.785 χ^2/NDF : 28.6/18

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

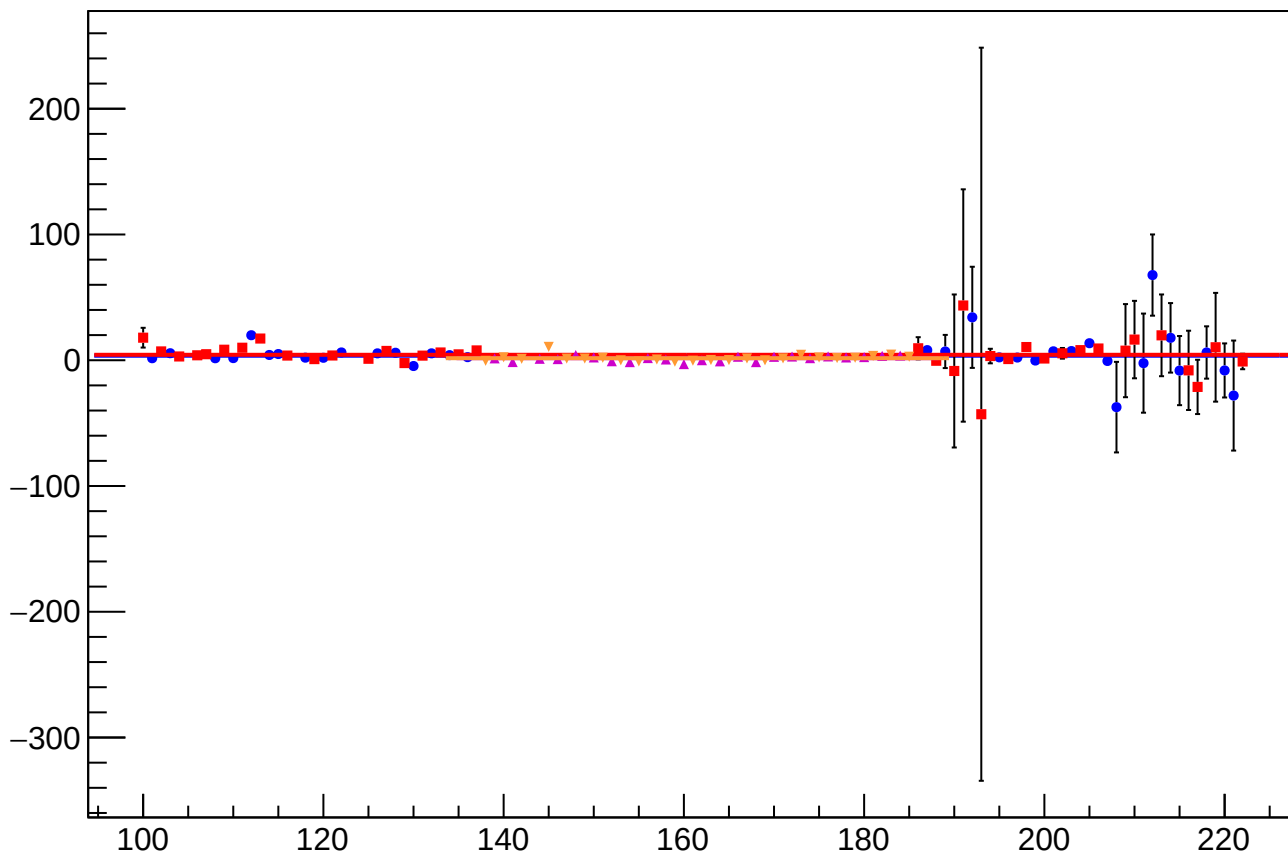
Right: -30.753 ± 0.576 χ^2/NDF : 65.1/36

In: -35.472 ± 0.187 χ^2/NDF : 939.3/40

Out: -35.881 ± 0.186 χ^2/NDF : 1171.0/42

All: -35.677 ± 0.132 χ^2/NDF : 2112.8/83

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.601 $\pm$ 0.217 χ^2 /NDF: 463.4/33

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.340 $\pm$ 0.220 χ^2 /NDF: 371.7/36

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

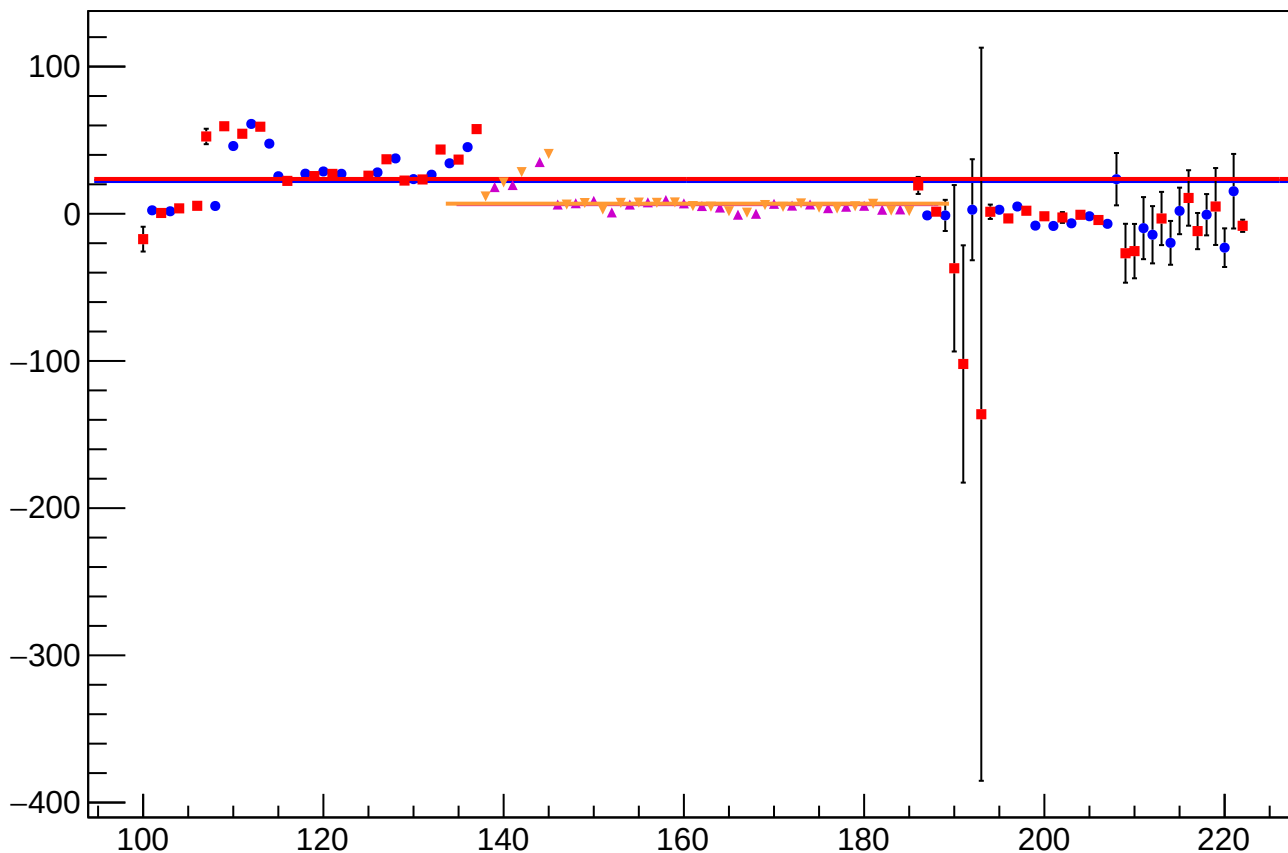
Right: 3.964 $\pm$ 0.155 χ^2 /NDF: 840.8/70

In: 2.273 $\pm$ 0.123 χ^2 /NDF:682.0/56

Out: 2.473 $\pm$ 0.123 χ^2 /NDF:642.2/60

All: 2.373 $\pm$ 0.087 χ^2 /NDF: 1325.6/117

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.235 $\pm$ 0.369 χ^2 /NDF: 2836.2/33

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.653 $\pm$ 0.360 χ^2 /NDF: 3368.6/36

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

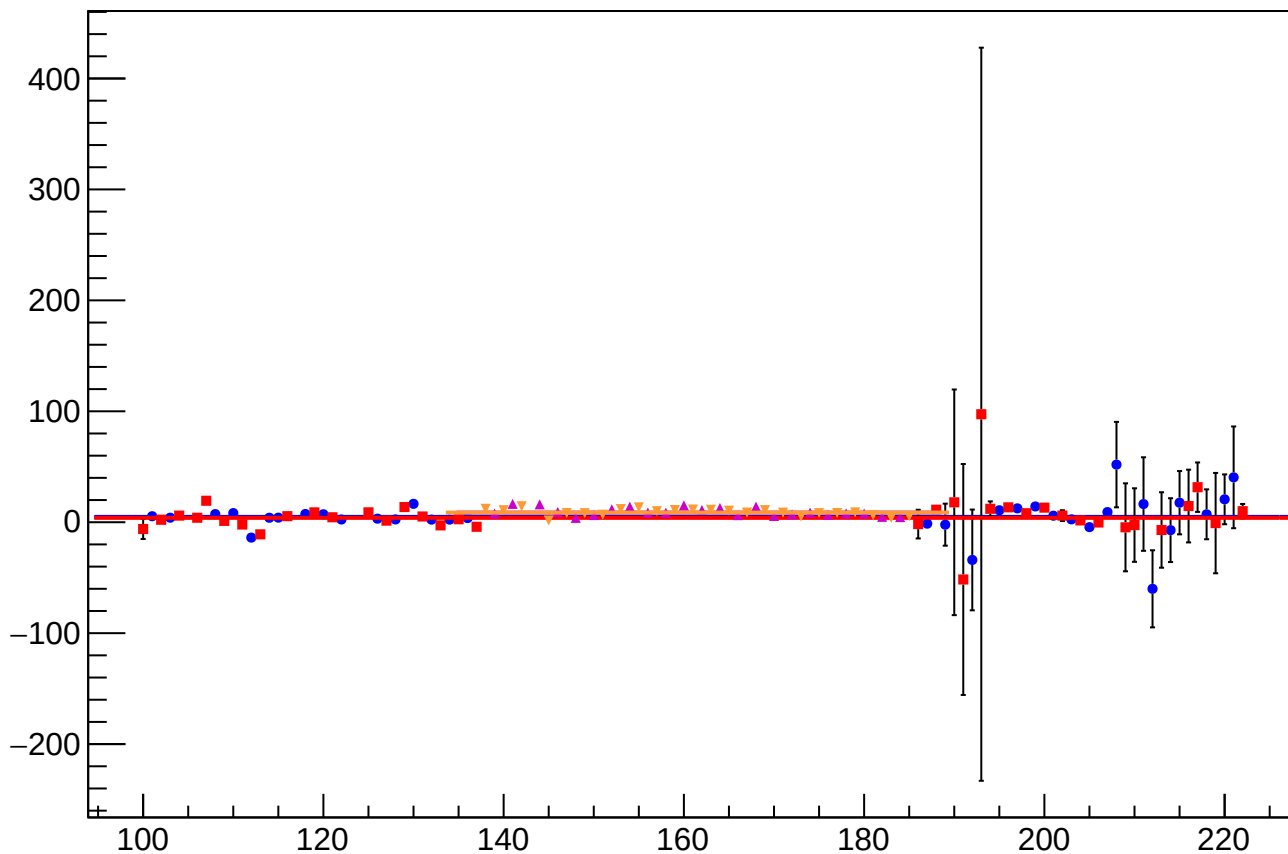
Right: 22.962 $\pm$ 0.258 χ^2 /NDF: 6212.4/70

In: 9.832 $\pm$ 0.169 χ^2 /NDF:5288.7/56

Out: 10.565 $\pm$ 0.169 χ^2 /NDF:6359.3/60

All: 10.199 $\pm$ 0.120 χ^2 /NDF: 11657.4/117

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.808 $\pm$ 0.250 χ^2 /NDF: 577.8/33

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.949 $\pm$ 0.254 χ^2 /NDF: 591.8/36

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

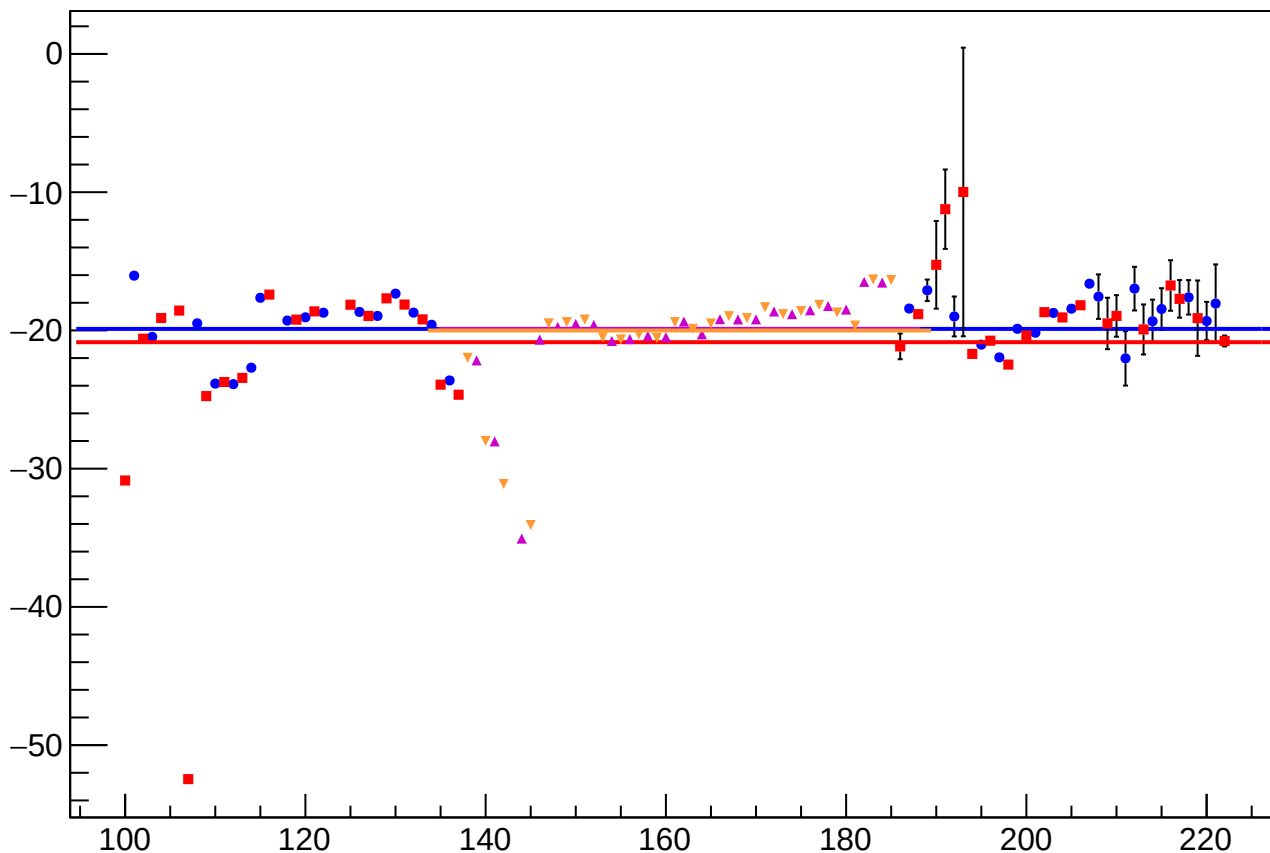
Right: 4.386 $\pm$ 0.178 χ^2 /NDF: 1175.3/70

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1177.5/56

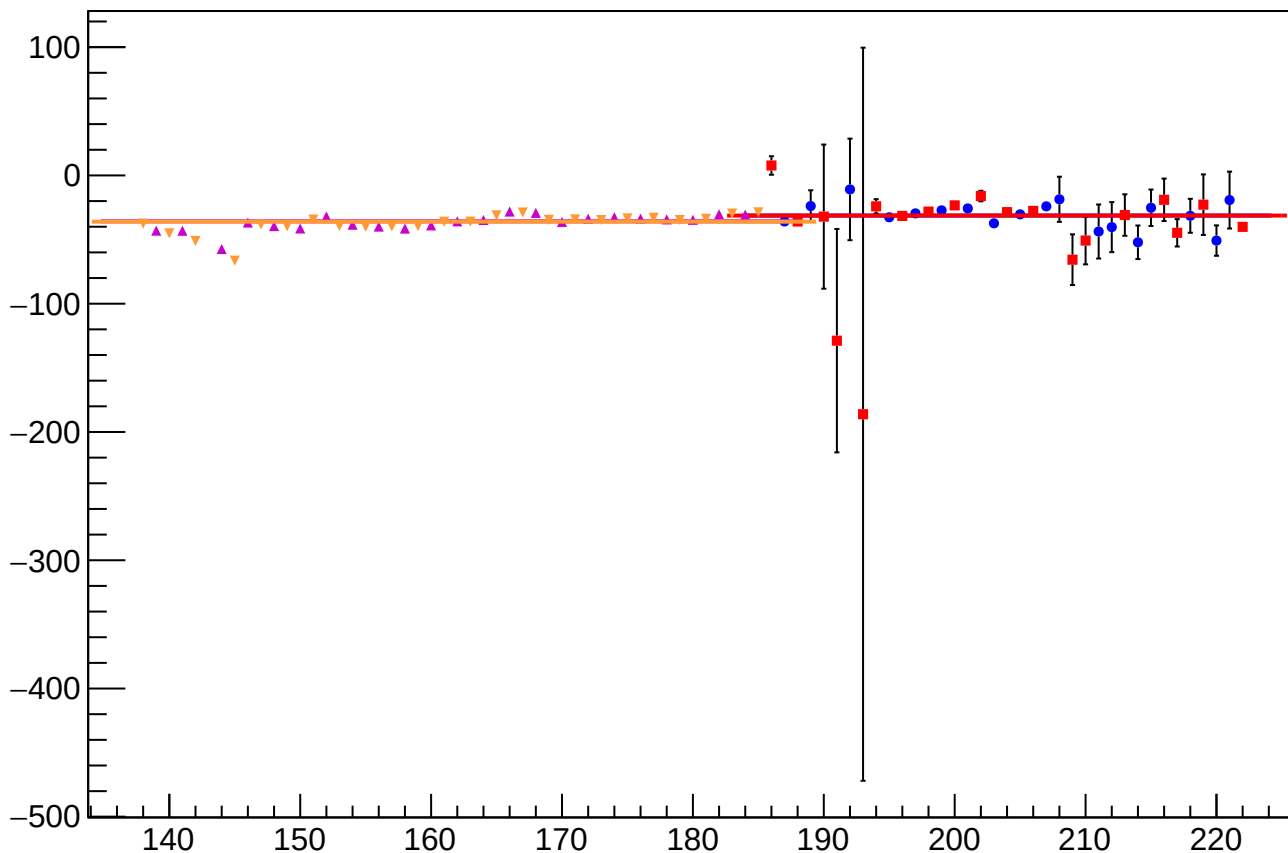
Out: 7.239 $\pm$ 0.141 χ^2 /NDF:1074.6/60

All: 7.342 $\pm$ 0.099 χ^2 /NDF: 2253.1/117

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.282 ± 0.851 χ^2/NDF : 34.4/17

Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23

Right Out: -31.284 ± 0.787 χ^2/NDF : 84.1/18

Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46

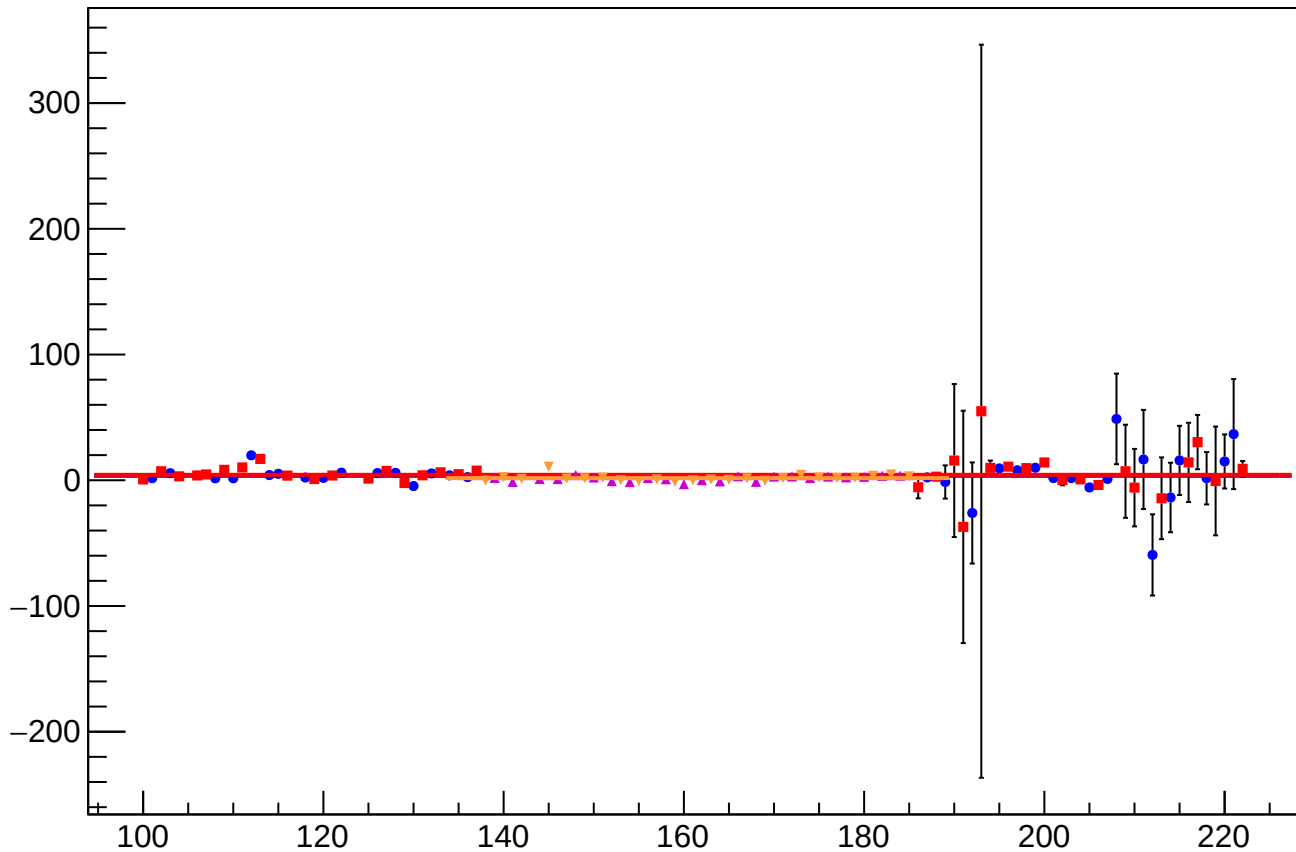
Right: -31.283 ± 0.578 χ^2/NDF : 118.4/36

In: -35.551 ± 0.187 χ^2/NDF : 903.4/40

Out: -35.765 ± 0.186 χ^2/NDF : 1239.7/42

All: -35.658 ± 0.132 χ^2/NDF : 2143.7/83

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.569 $\pm$ 0.217 χ^2 /NDF: 462.9/33

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.329 $\pm$ 0.217 χ^2 /NDF: 380.9/36

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

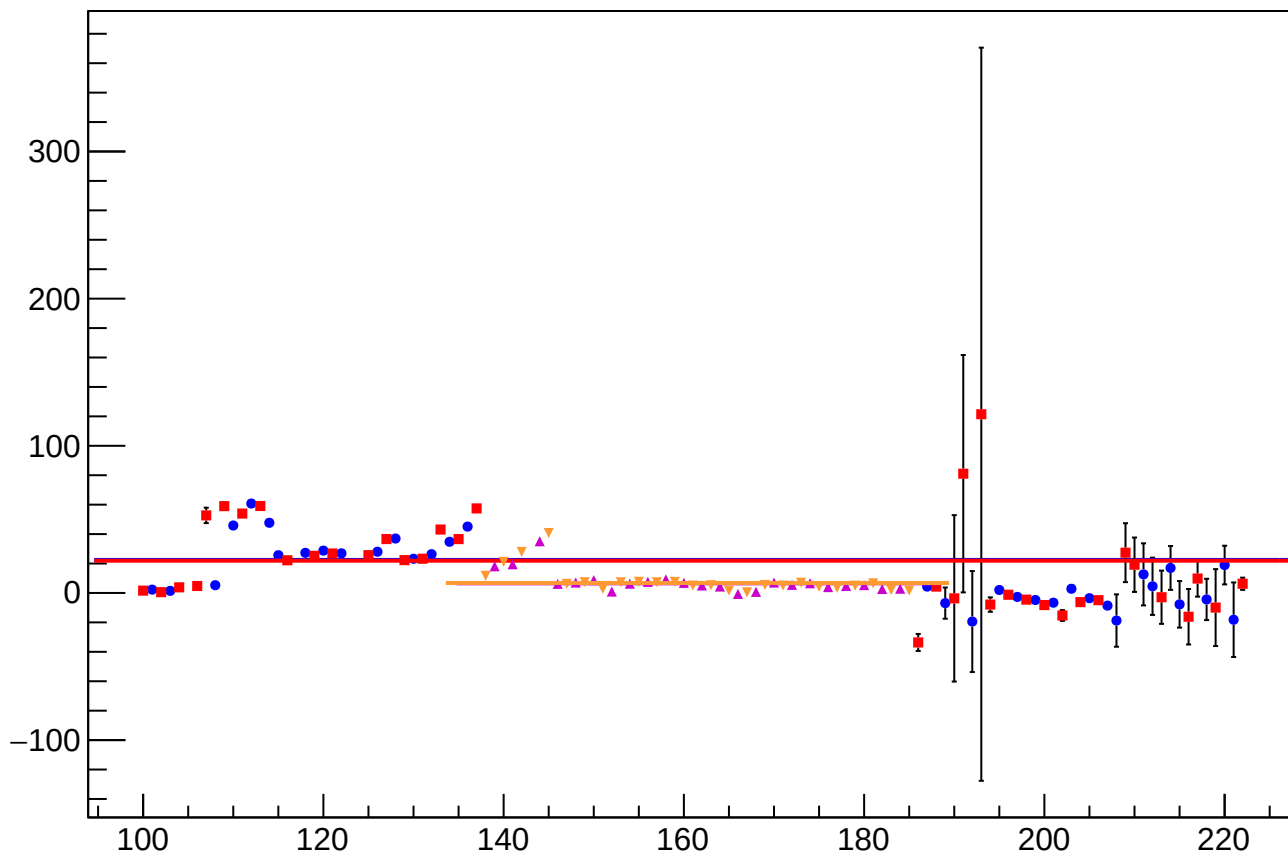
Right: 3.948 $\pm$ 0.153 χ^2 /NDF: 849.9/70

In: 2.306 $\pm$ 0.123 χ^2 /NDF:676.1/56

Out: 2.549 $\pm$ 0.122 χ^2 /NDF:647.6/60

All: 2.428 $\pm$ 0.087 χ^2 /NDF: 1325.6/117

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.434+/-0.369 χ^2 /NDF: 2710.8/33

Left Out: 6.779+/-0.191 χ^2 /NDF:1297.7/23

Right Out: 21.914+/-0.347 χ^2 /NDF: 3682.2/36

Left In: 6.532+/-0.190 χ^2 /NDF:1018.2/22

Left: 6.655+/-0.135 χ^2 /NDF: 2316.7/46

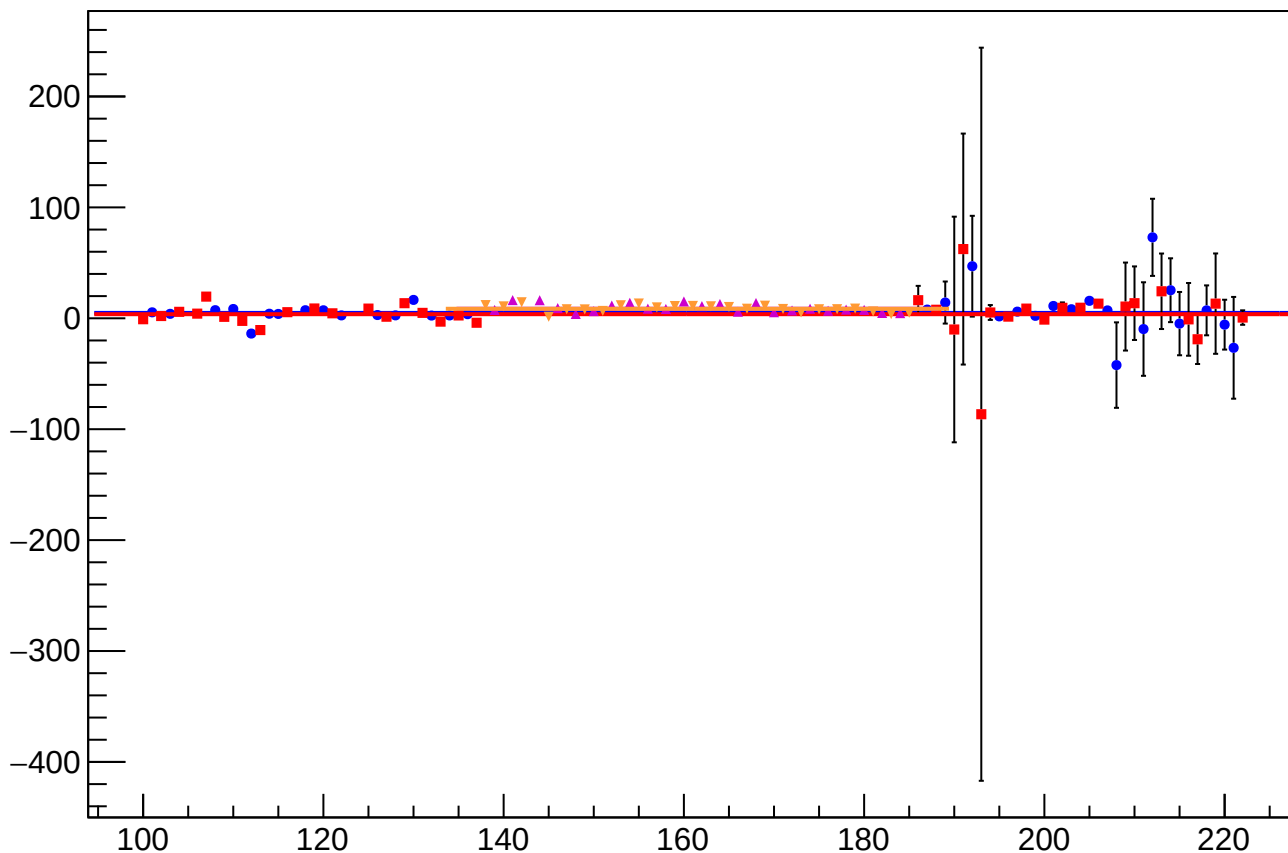
Right: 22.158+/-0.253 χ^2 /NDF: 6394.0/70

In: 9.867+/-0.169 χ^2 /NDF:5193.5/56

Out: 10.300+/-0.168 χ^2 /NDF:6436.2/60

All: 10.085+/-0.119 χ^2 /NDF: 11633.0/117

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.847 $\pm$ 0.250 χ^2 /NDF: 565.7/33

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.692 $\pm$ 0.250 χ^2 /NDF: 590.7/36

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

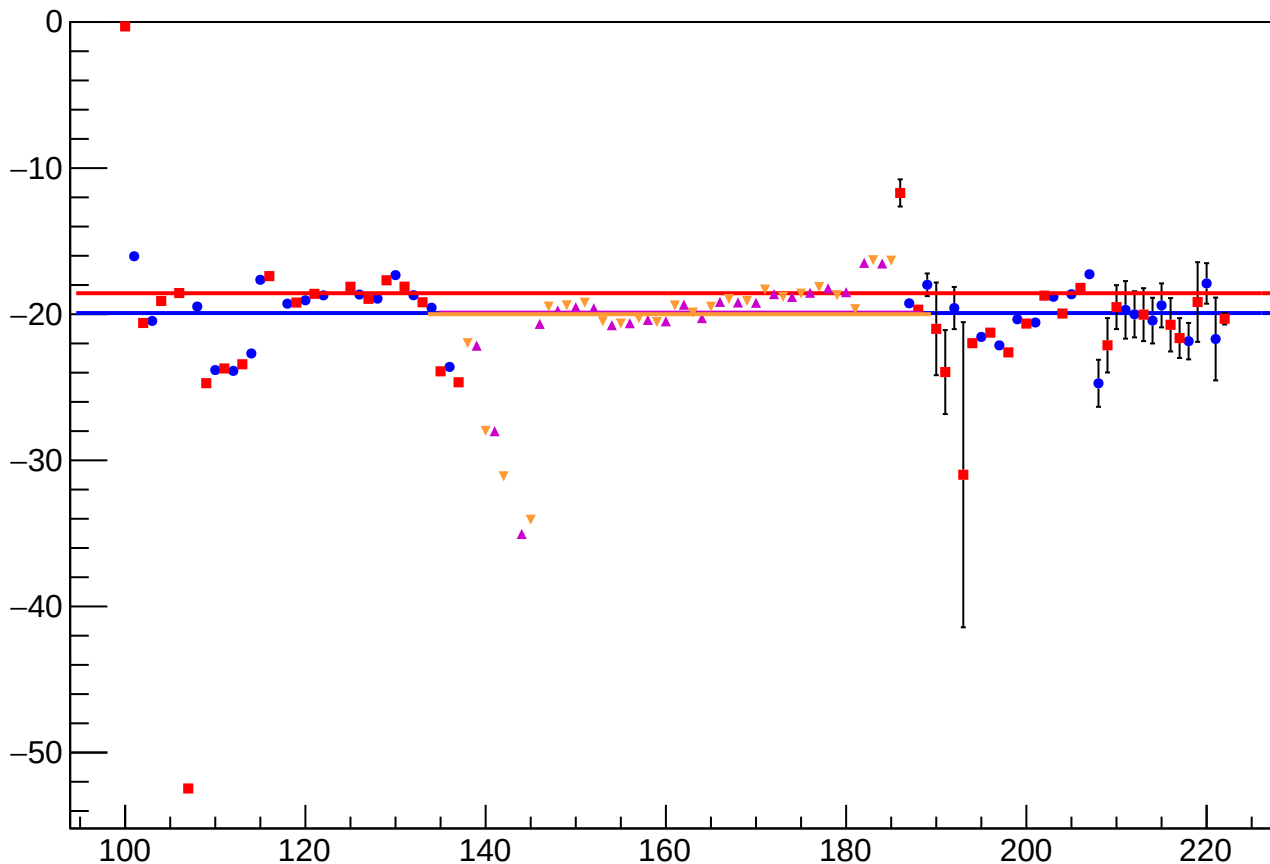
Right: 4.270 $\pm$ 0.177 χ^2 /NDF: 1167.1/70

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1160.5/56

Out: 7.052 $\pm$ 0.140 χ^2 /NDF:1099.4/60

All: 7.225 $\pm$ 0.099 χ^2 /NDF: 2263.0/117

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27102.3/33$

Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$

Right Out: -18.562 ± 0.014 $\chi^2/\text{NDF}: 303755.2/36$

Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$

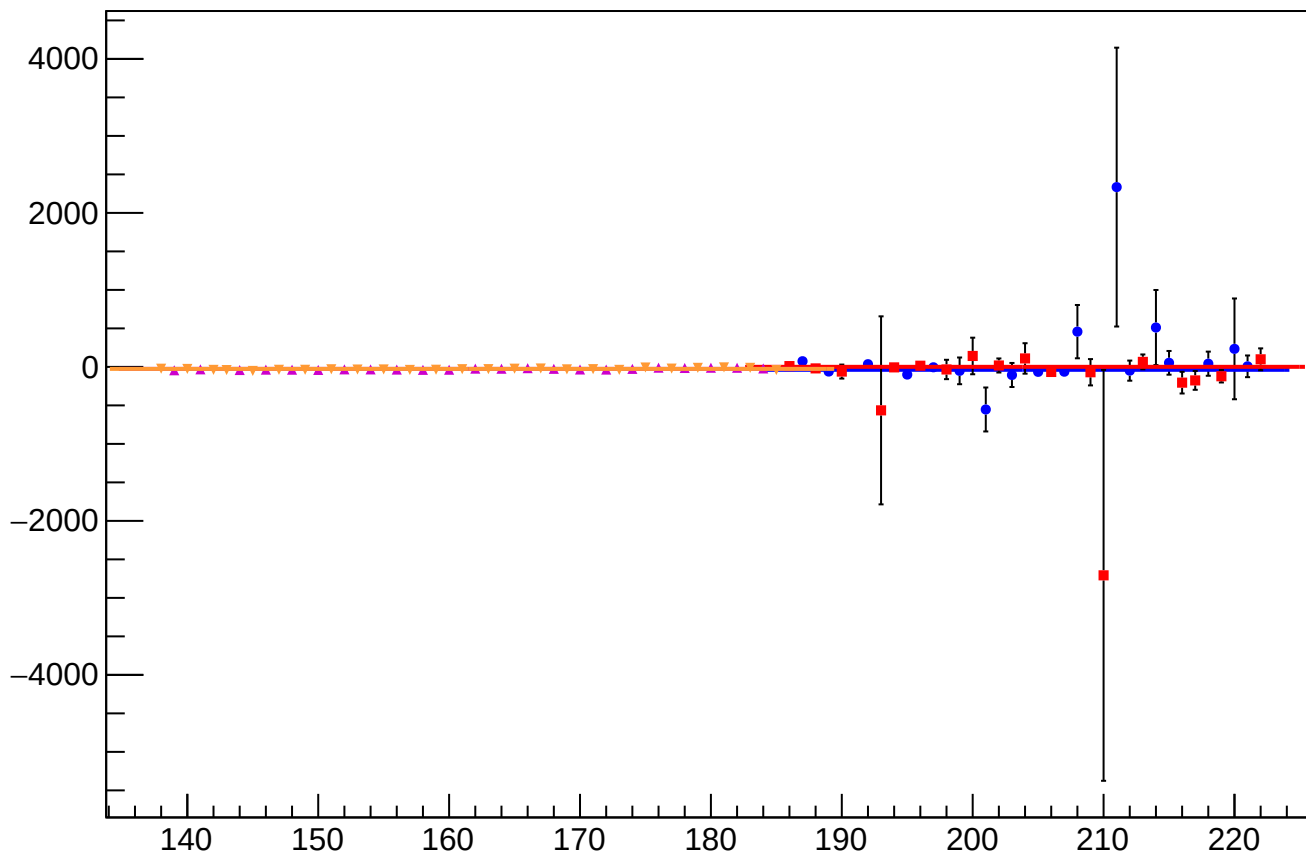
Right: -19.206 ± 0.010 $\chi^2/\text{NDF}: 335264.5/70$

In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171160.6/56$

Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483609.2/60$

All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655382.5/117$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -37.889 ± 12.835 χ^2/NDF : 21.9/17

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 0.846 ± 7.999 χ^2/NDF : 14.3/17

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

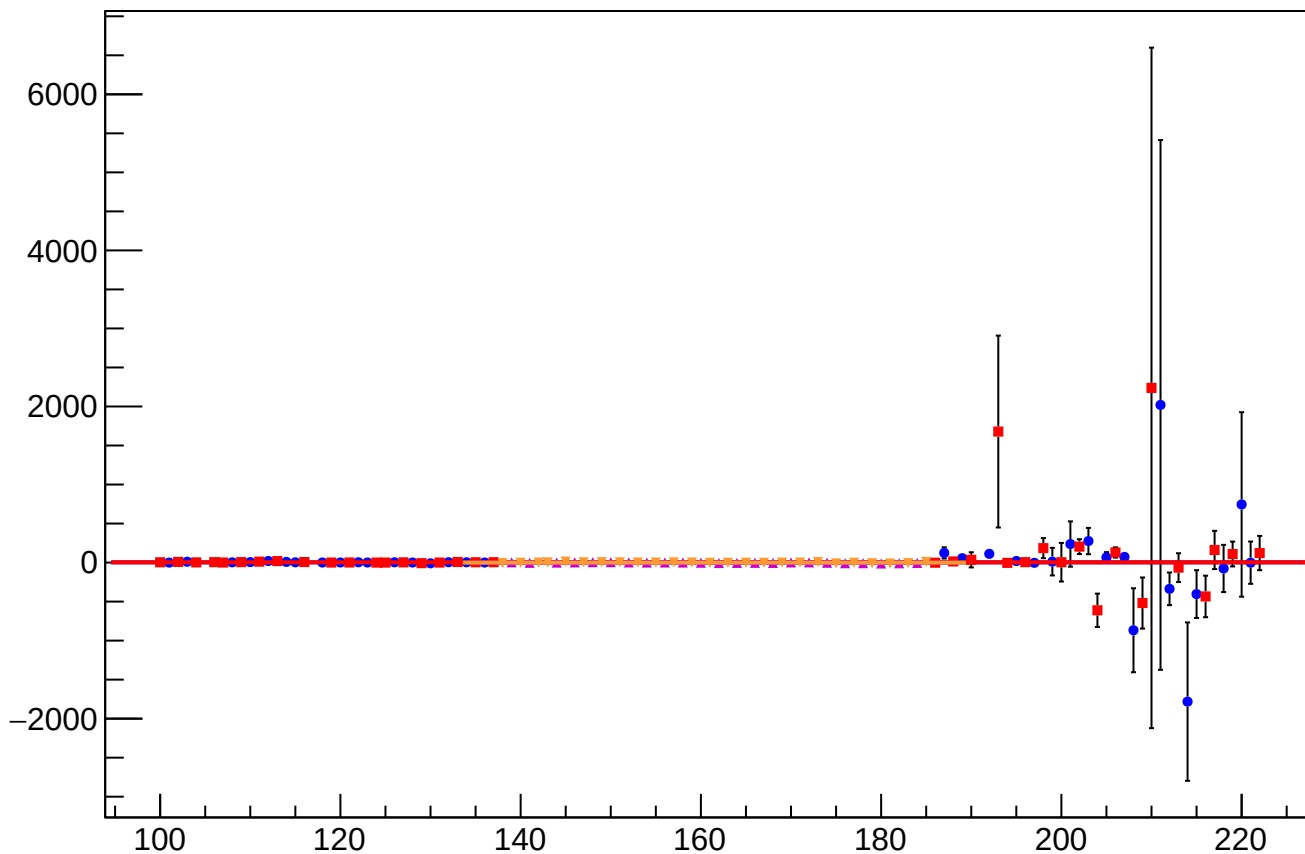
Right: -9.991 ± 6.789 χ^2/NDF : 42.8/35

In: -26.055 ± 0.195 χ^2/NDF : 3302.3/40

Out: -25.869 ± 0.192 χ^2/NDF : 4183.4/42

All: -25.960 ± 0.137 χ^2/NDF : 7486.2/83

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.5/34

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 296.5/36

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

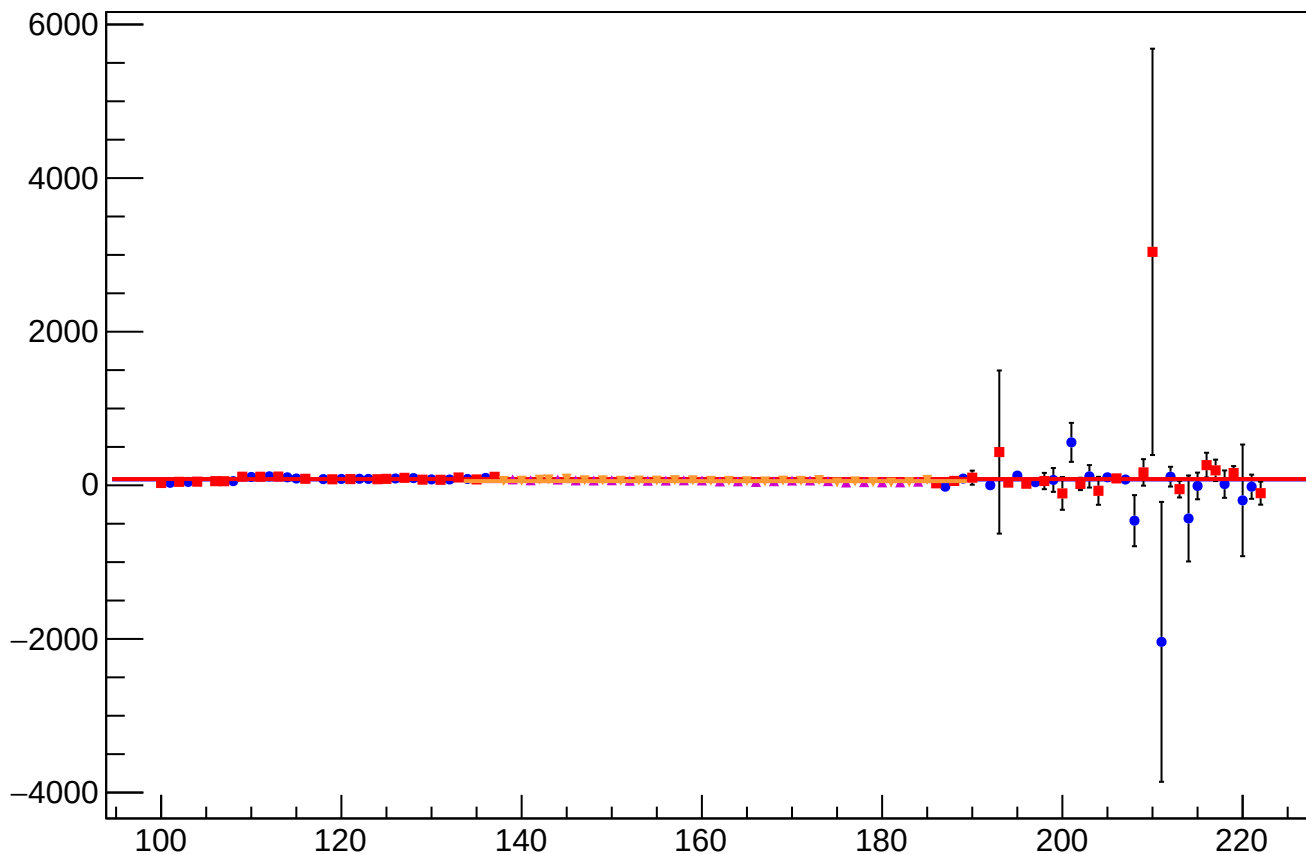
Right: 3.072+/-0.227 χ^2/NDF : 628.5/71

In: -0.242+/-0.136 χ^2/NDF : 1482.6/57

Out: 0.075+/-0.133 χ^2/NDF : 1766.5/61

All: -0.081+/-0.095 χ^2/NDF : 3251.9/119

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.529 $\pm$ 0.576 χ^2 /NDF: 2275.0/34

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.492 $\pm$ 0.590 χ^2 /NDF: 1639.8/36

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

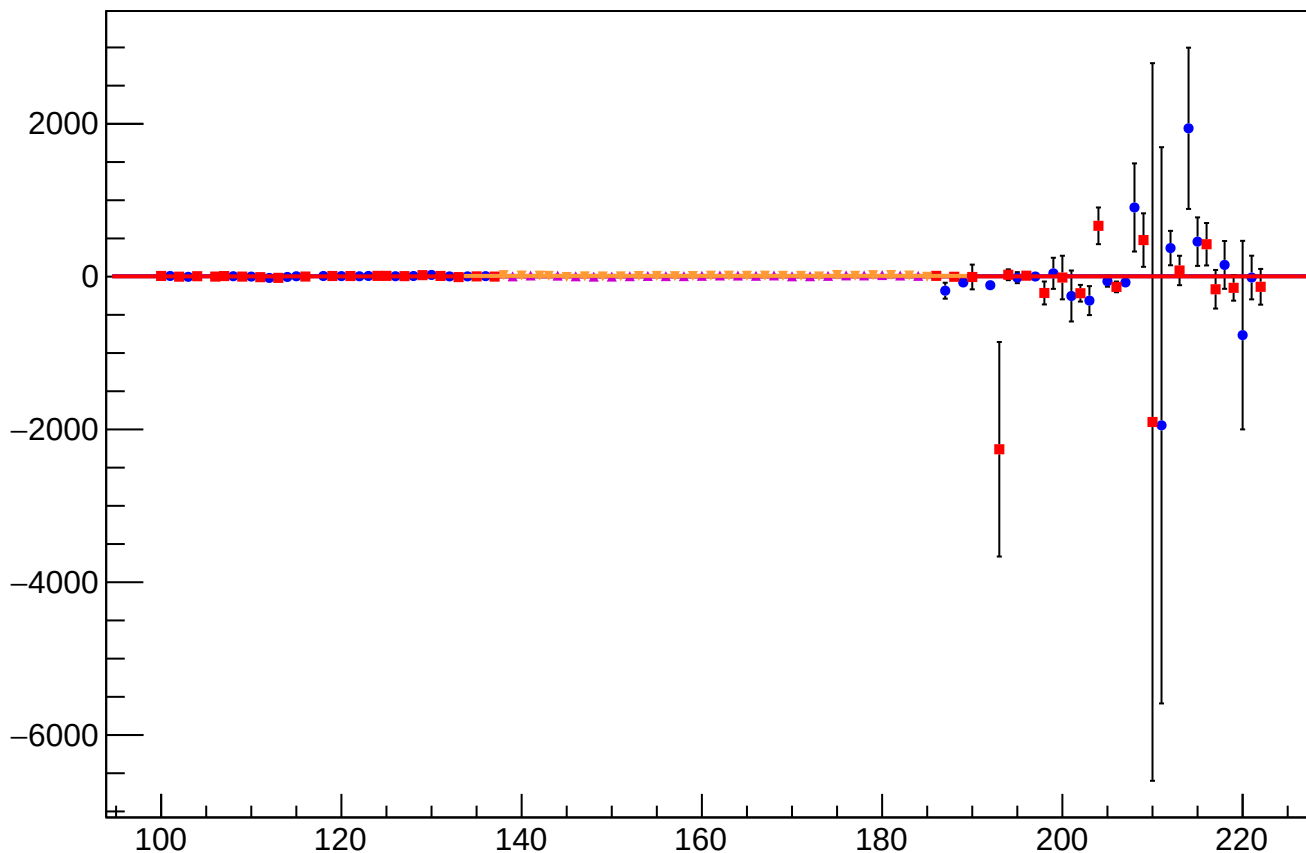
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3951.0/71

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.4/57

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8027.2/61

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15253.6/119

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 416.1/34

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 448.2/36

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

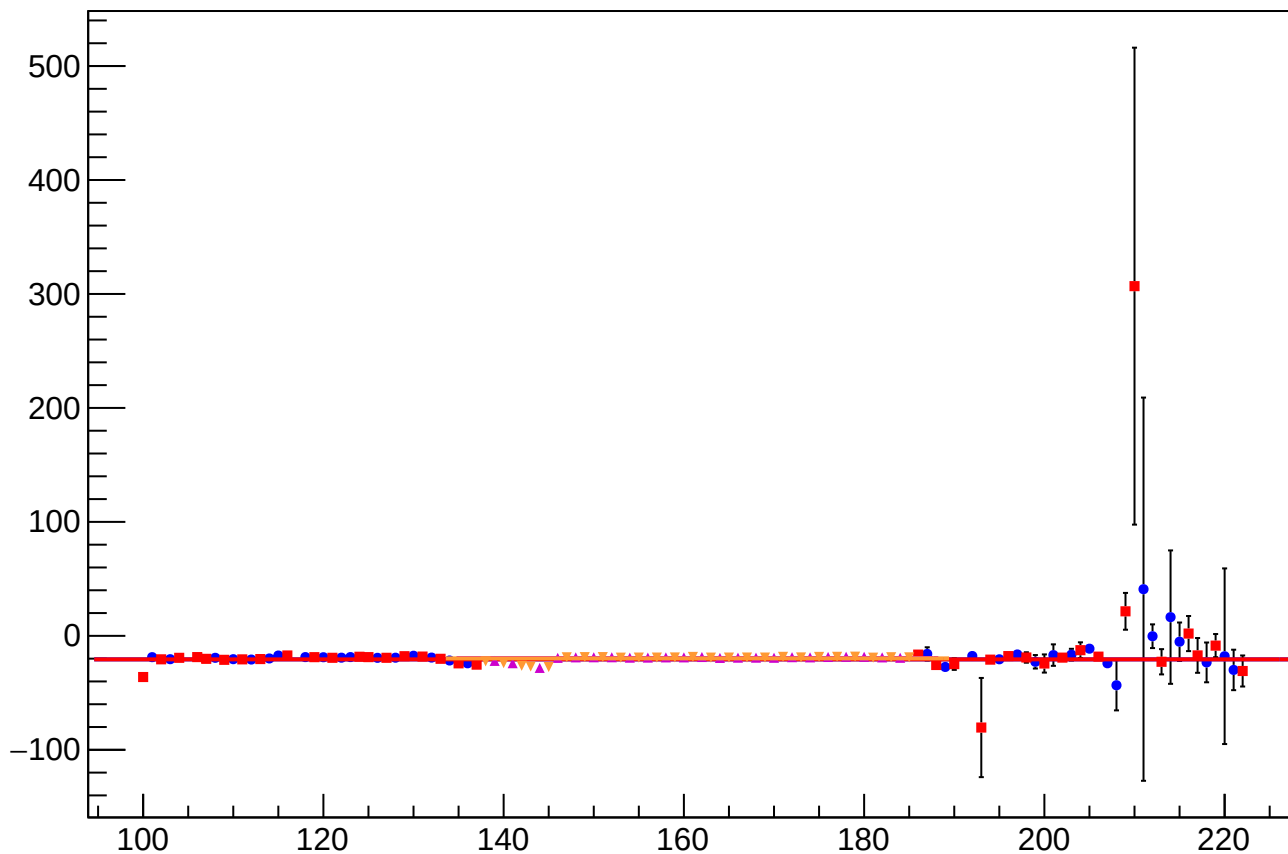
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 876.6/71

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.8/57

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2122.6/61

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3820.1/119

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12460.6/34$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13823.4/36$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

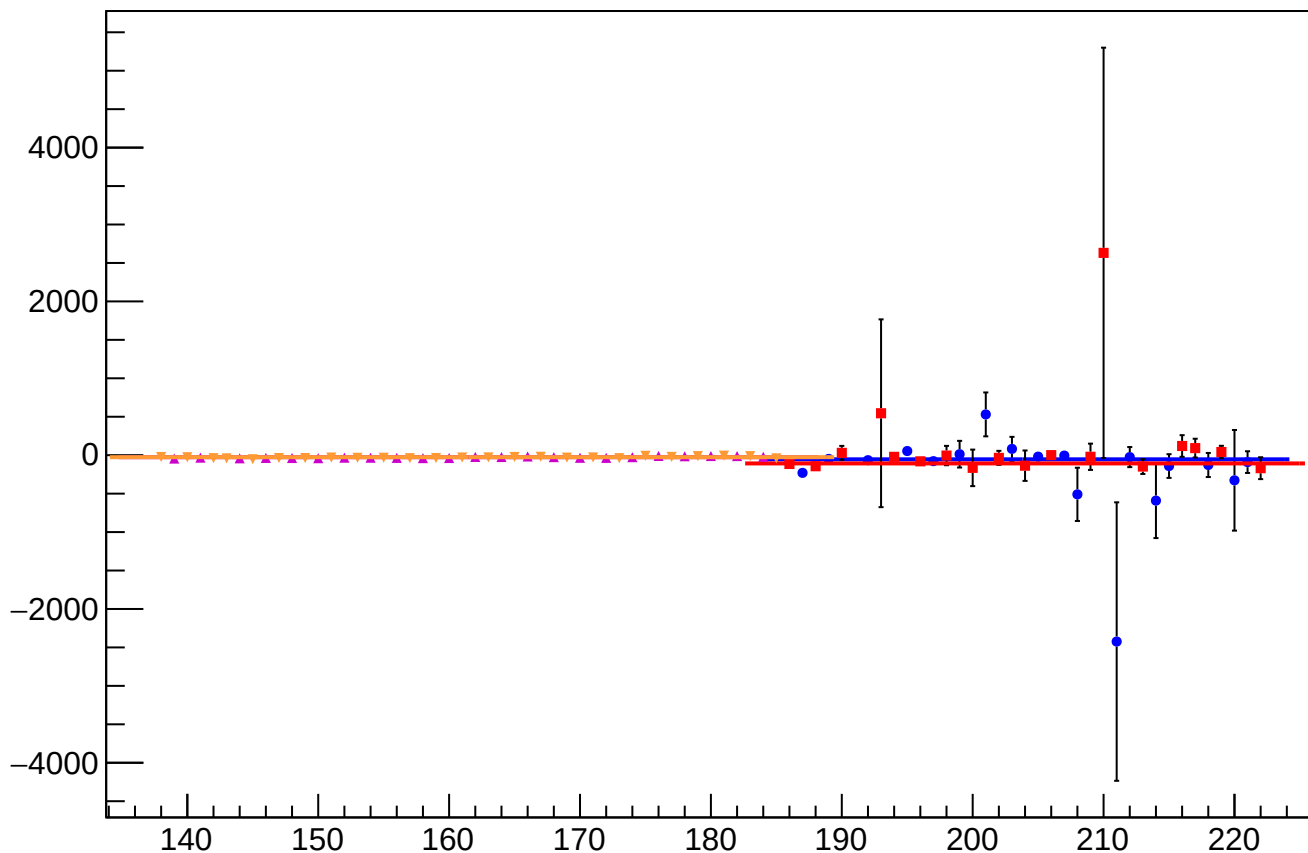
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26284.0/71$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68968.8/57$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107162.7/61$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176859.9/119$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected

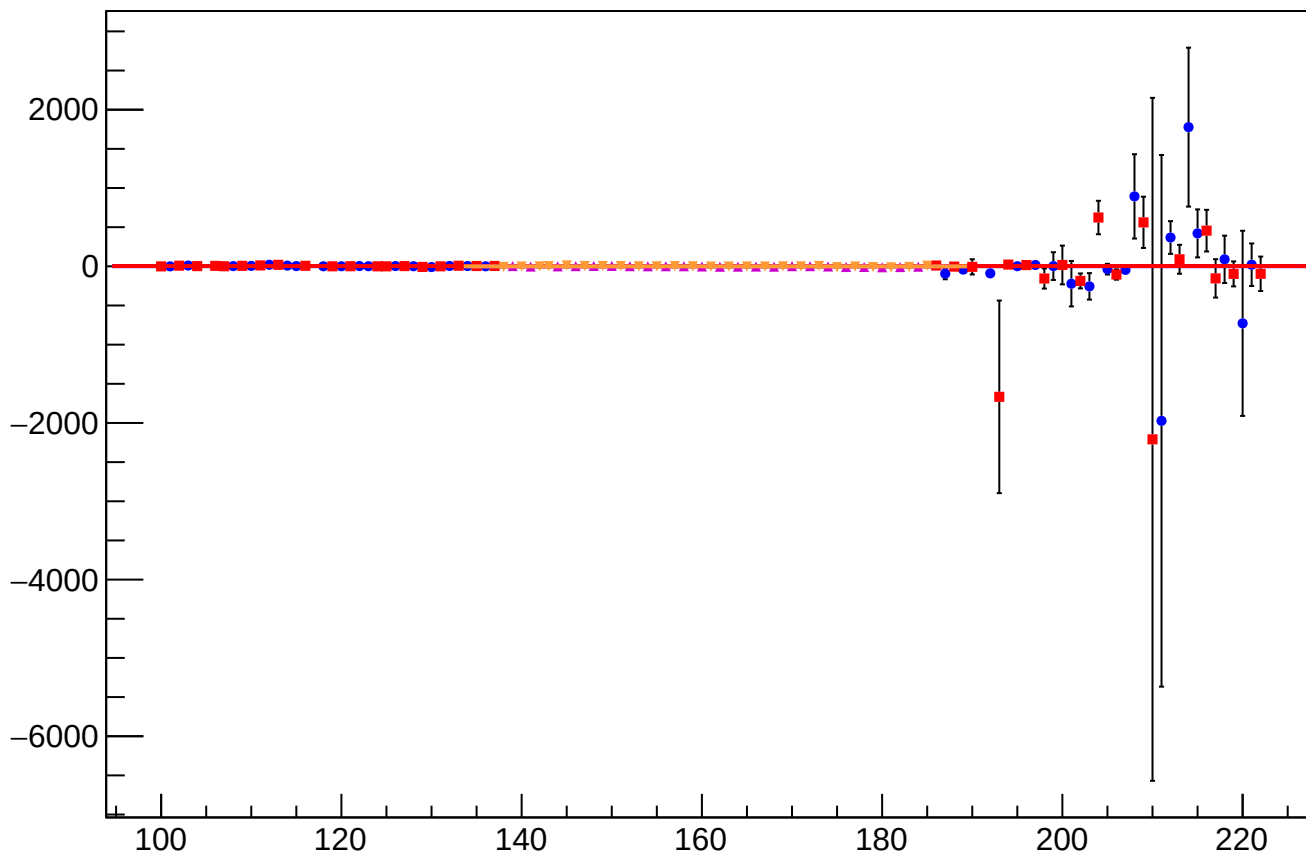


Right In: -53.765+/-12.844 χ^2/NDF : 33.1/17
 Left Out: -25.899+/-0.192 χ^2/NDF : 4127.5/24
 Right Out: -107.154+/-8.004 χ^2/NDF : 26.0/17
 Left In: -26.046+/-0.195 χ^2/NDF : 3246.7/22

Left: -25.971+/-0.137 χ^2/NDF : 7374.6/47
 Right: -92.219+/-6.793 χ^2/NDF : 71.5/35
 In: -26.052+/-0.195 χ^2/NDF : 3284.5/40
 Out: -25.946+/-0.192 χ^2/NDF : 4256.5/42

All: -25.998+/-0.137 χ^2/NDF : 7541.1/83

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 $\pm$ 0.315 χ^2 /NDF: 317.0/34

Left Out: -0.596 $\pm$ 0.146 χ^2 /NDF:1310.7/24

Right Out: 3.593 $\pm$ 0.318 χ^2 /NDF: 306.3/36

Left In: -0.795 $\pm$ 0.151 χ^2 /NDF:1106.3/22

Left: -0.693 $\pm$ 0.105 χ^2 /NDF: 2417.9/47

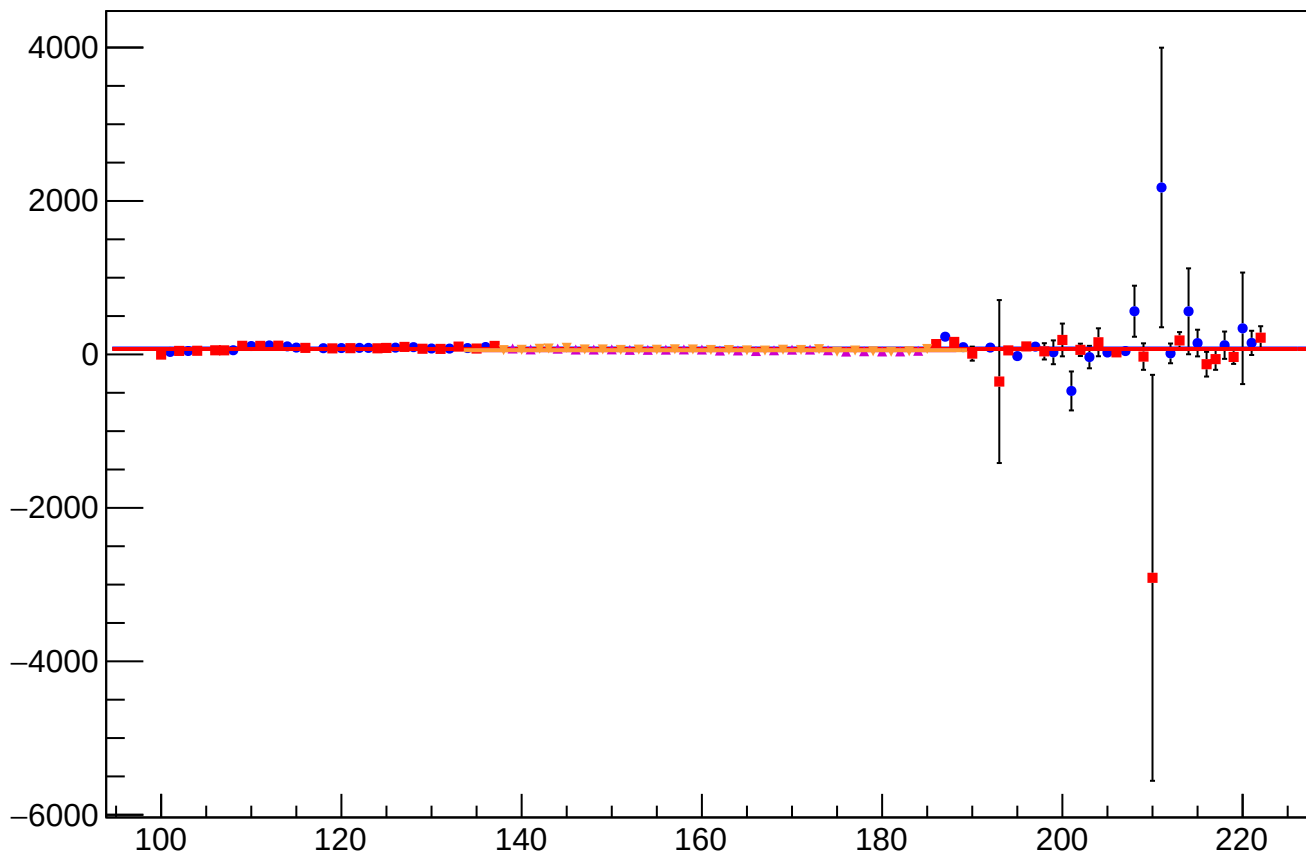
Right: 3.011 $\pm$ 0.224 χ^2 /NDF: 630.0/71

In: -0.193 $\pm$ 0.136 χ^2 /NDF:1509.2/57

Out: 0.136 $\pm$ 0.133 χ^2 /NDF:1760.3/61

All: -0.025 $\pm$ 0.095 χ^2 /NDF: 3272.5/119

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.712 $\pm$ 0.576 χ^2 /NDF: 2301.3/34

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.744 $\pm$ 0.549 χ^2 /NDF: 4499.8/36

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

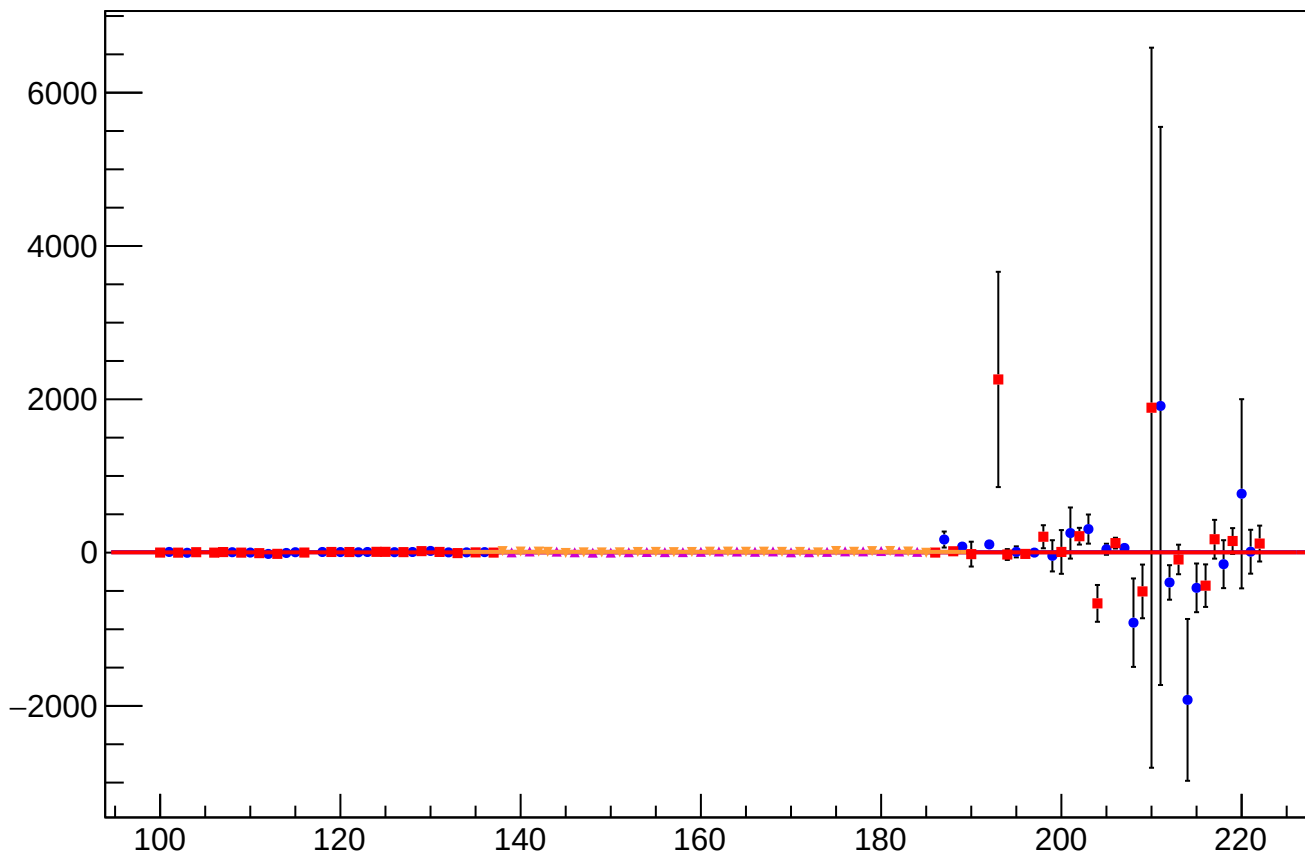
Right: 73.580 $\pm$ 0.397 χ^2 /NDF: 6857.3/71

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.7/57

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9783.7/61

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17016.8/119

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443+/-0.361 χ^2/NDF : 410.3/34

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.283+/-0.365 χ^2/NDF : 450.7/36

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

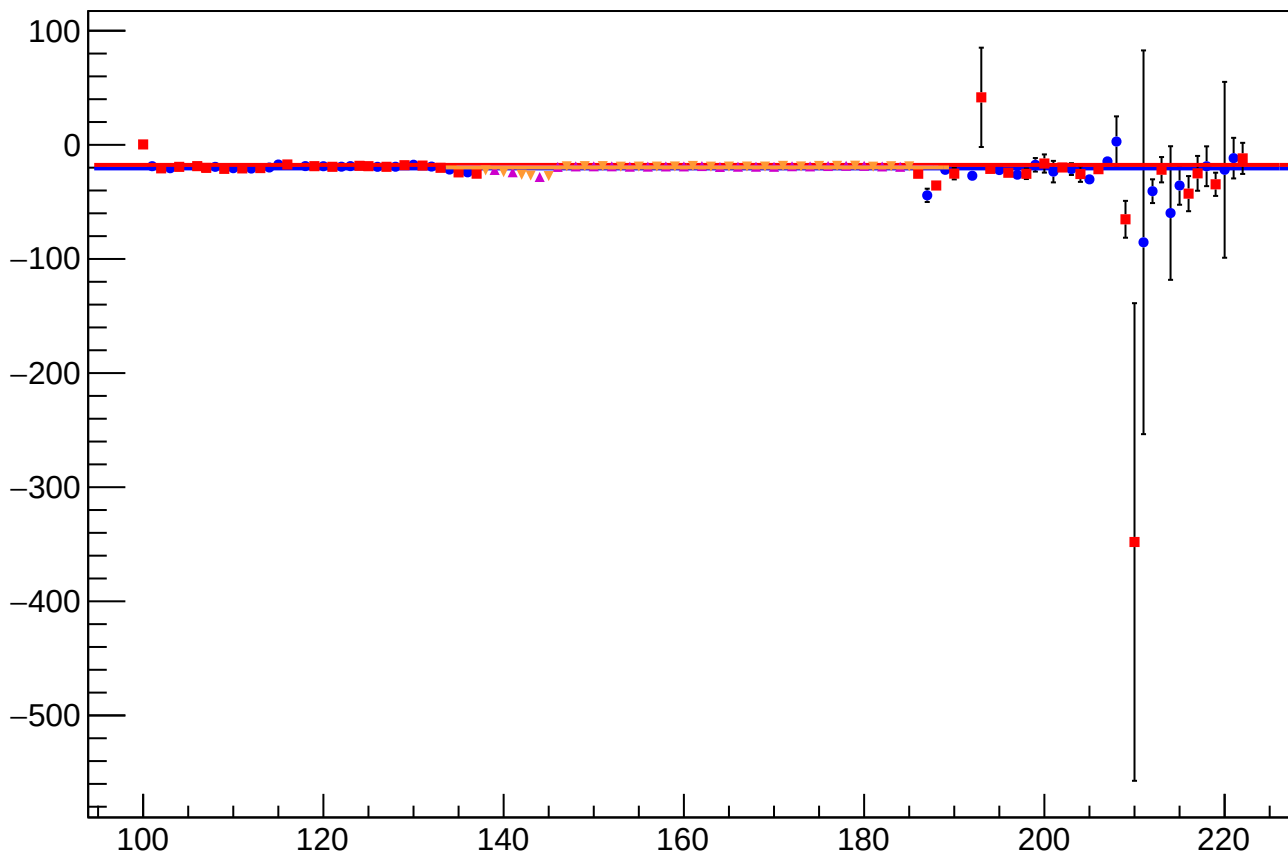
Right: 4.376+/-0.257 χ^2/NDF : 878.6/71

In: 8.945+/-0.155 χ^2/NDF :1716.8/57

Out: 8.562+/-0.153 χ^2/NDF :2144.6/61

All: 8.750+/-0.109 χ^2/NDF : 3864.5/119

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12521.3/34$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178458.8/36$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

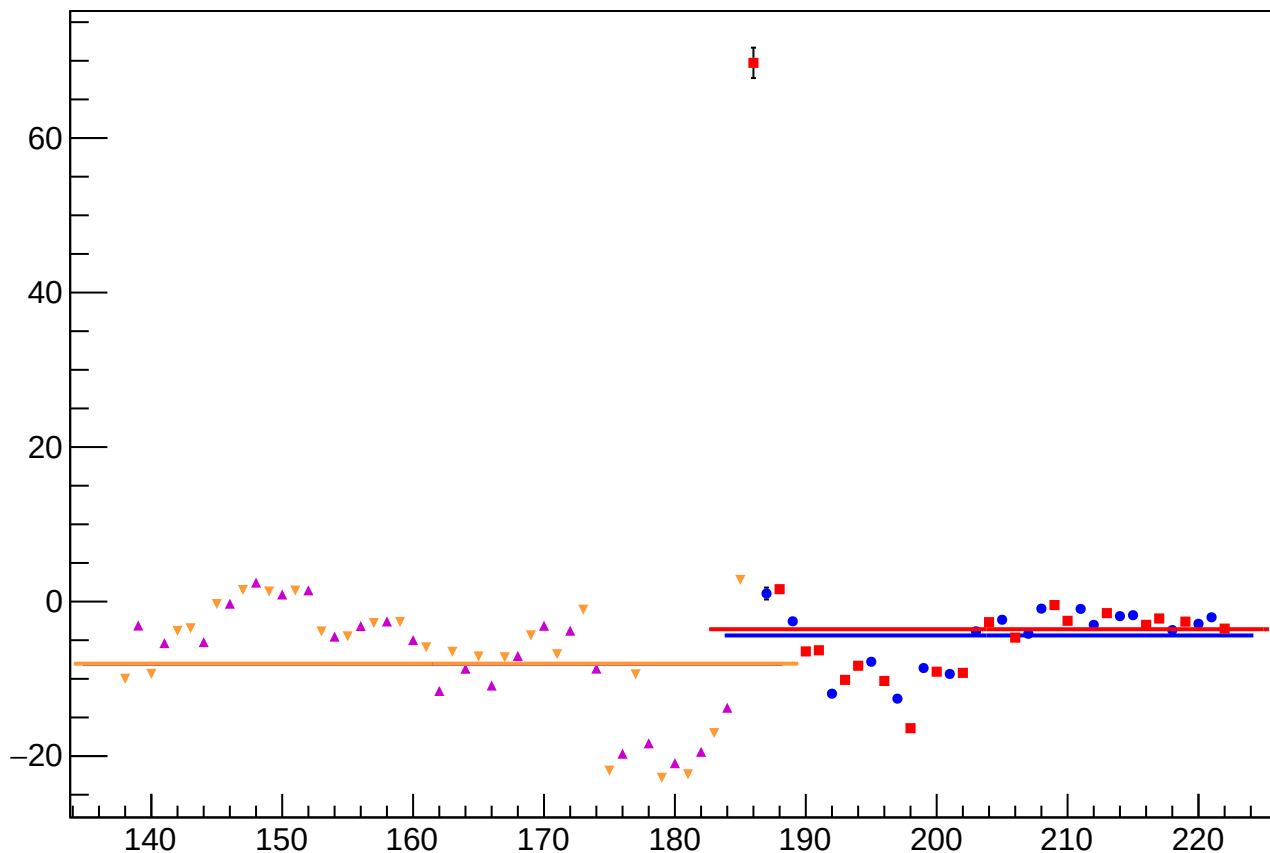
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204449.6/71$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68943.1/57$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282444.6/61$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351750.9/119$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

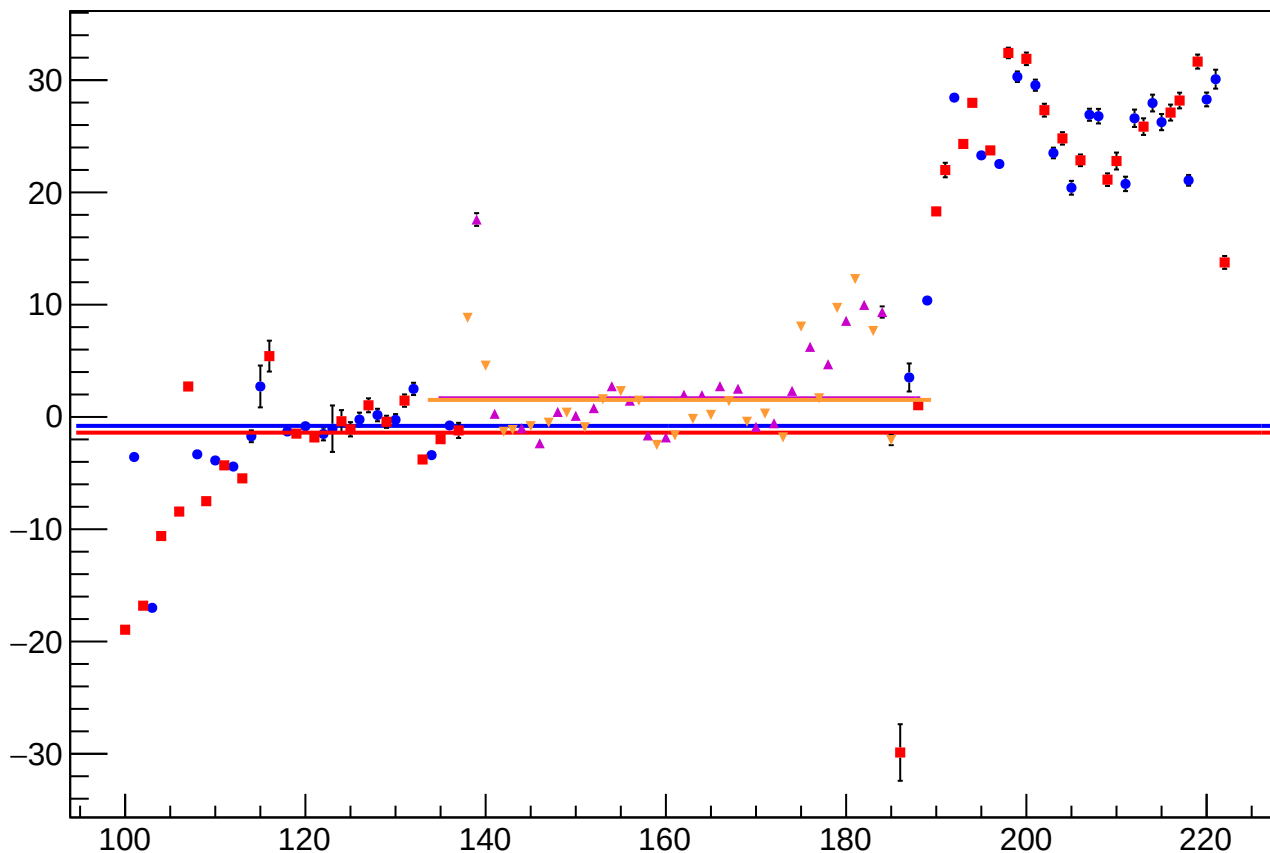


Right In: -4.386 ± 0.090 $\chi^2/\text{NDF}: 1621.4/17$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.577 ± 0.084 $\chi^2/\text{NDF}: 4172.9/18$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -3.951 ± 0.062 $\chi^2/\text{NDF}: 5837.3/36$
 In: -6.649 ± 0.056 $\chi^2/\text{NDF}: 13182.9/40$
 Out: -6.198 ± 0.054 $\chi^2/\text{NDF}: 18396.7/43$

All: -6.414 ± 0.039 $\chi^2/\text{NDF}: 31613.1/84$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.794 ± 0.050 $\chi^2/\text{NDF}: 56551.3/34$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.398 ± 0.053 $\chi^2/\text{NDF}: 65021.5/37$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

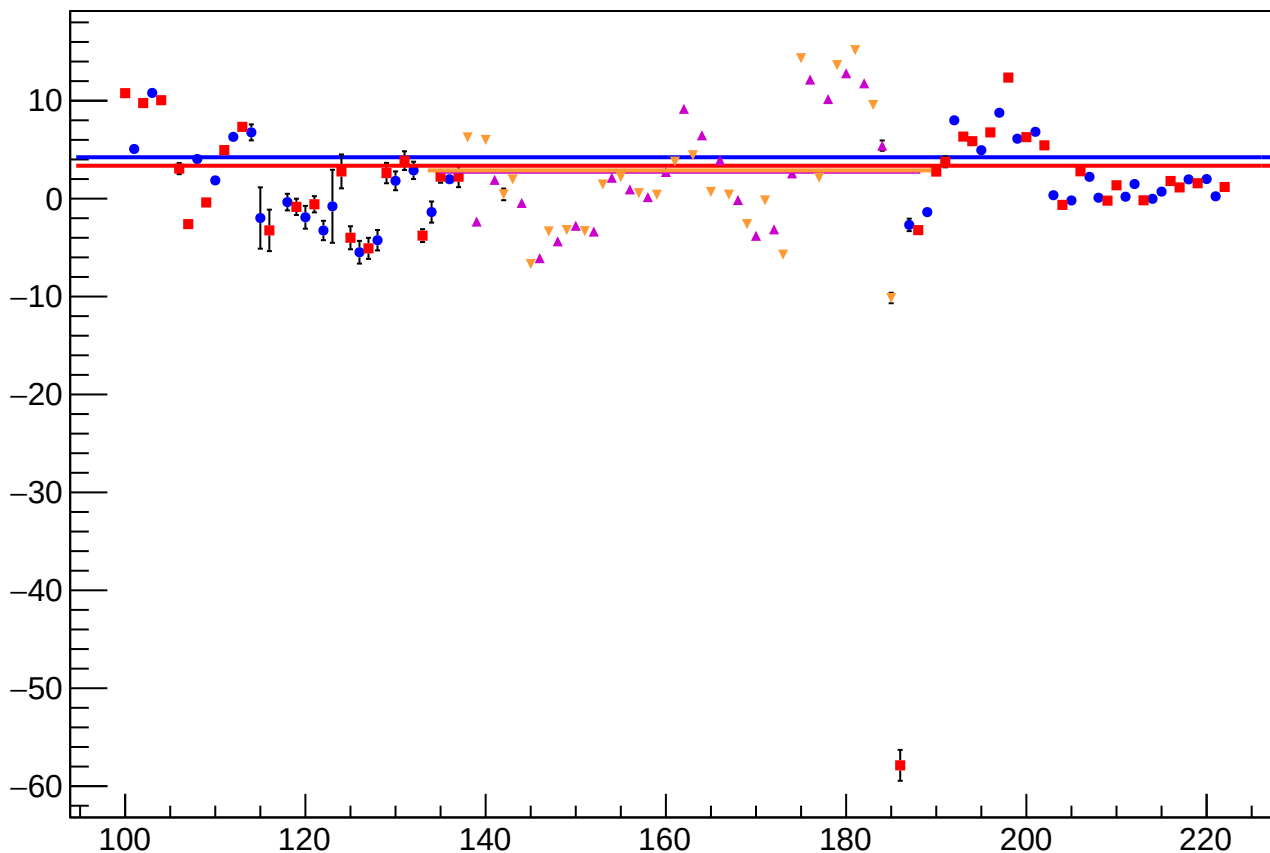
Right: -1.083 ± 0.036 $\chi^2/\text{NDF}: 121641.3/72$

In: 0.292 ± 0.038 $\chi^2/\text{NDF}: 61637.3/57$

Out: 0.014 ± 0.038 $\chi^2/\text{NDF}: 71353.9/62$

All: 0.153 ± 0.027 $\chi^2/\text{NDF}: 133018.4/120$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.227 ± 0.063 $\chi^2/\text{NDF}: 3457.8/34$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.360 ± 0.060 $\chi^2/\text{NDF}: 8182.2/37$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

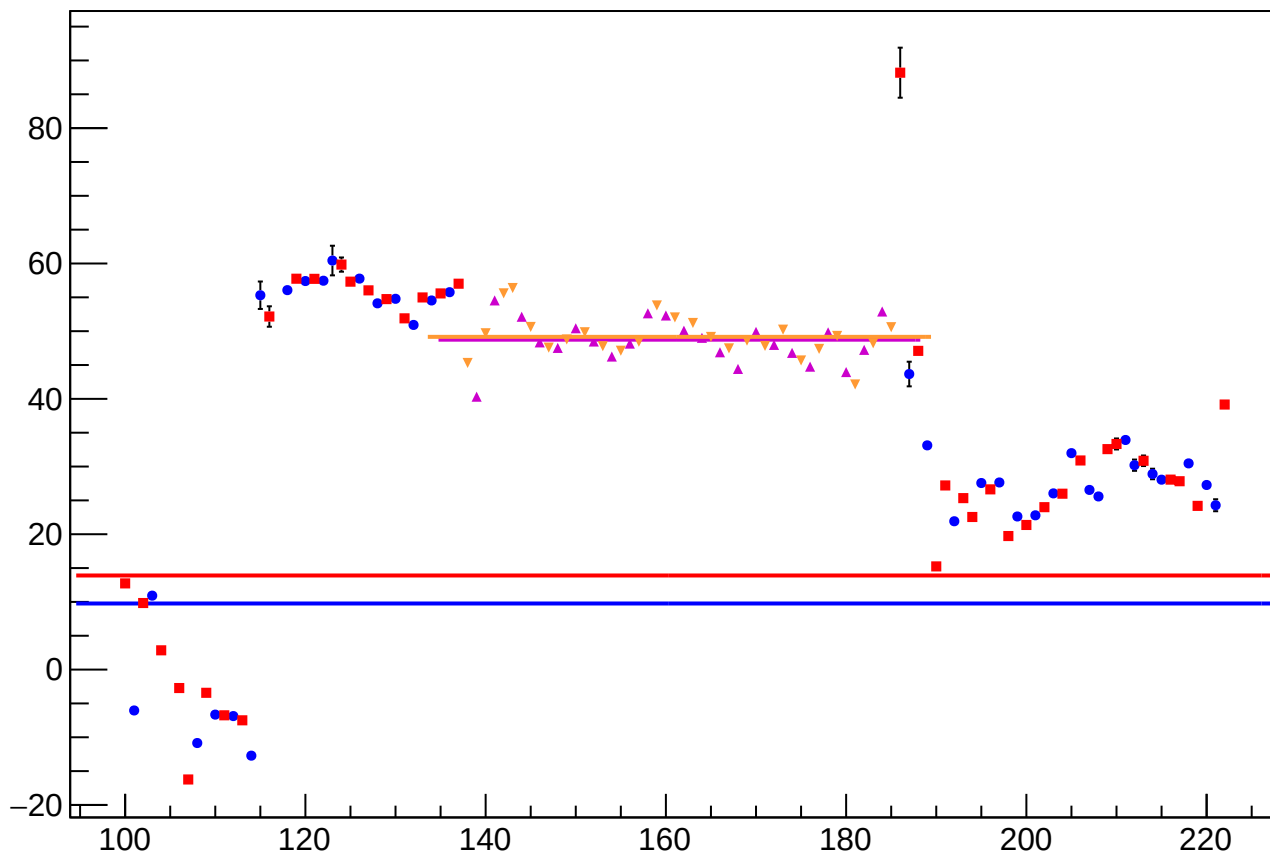
Right: 3.774 ± 0.044 $\chi^2/\text{NDF}: 11738.6/72$

In: 3.578 ± 0.047 $\chi^2/\text{NDF}: 10882.5/57$

Out: 3.158 ± 0.046 $\chi^2/\text{NDF}: 17101.8/62$

All: 3.361 ± 0.033 $\chi^2/\text{NDF}: 28025.1/120$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.766 ± 0.059 $\chi^2/\text{NDF}: 138965.8/34$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 13.904 ± 0.062 $\chi^2/\text{NDF}: 140563.5/37$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

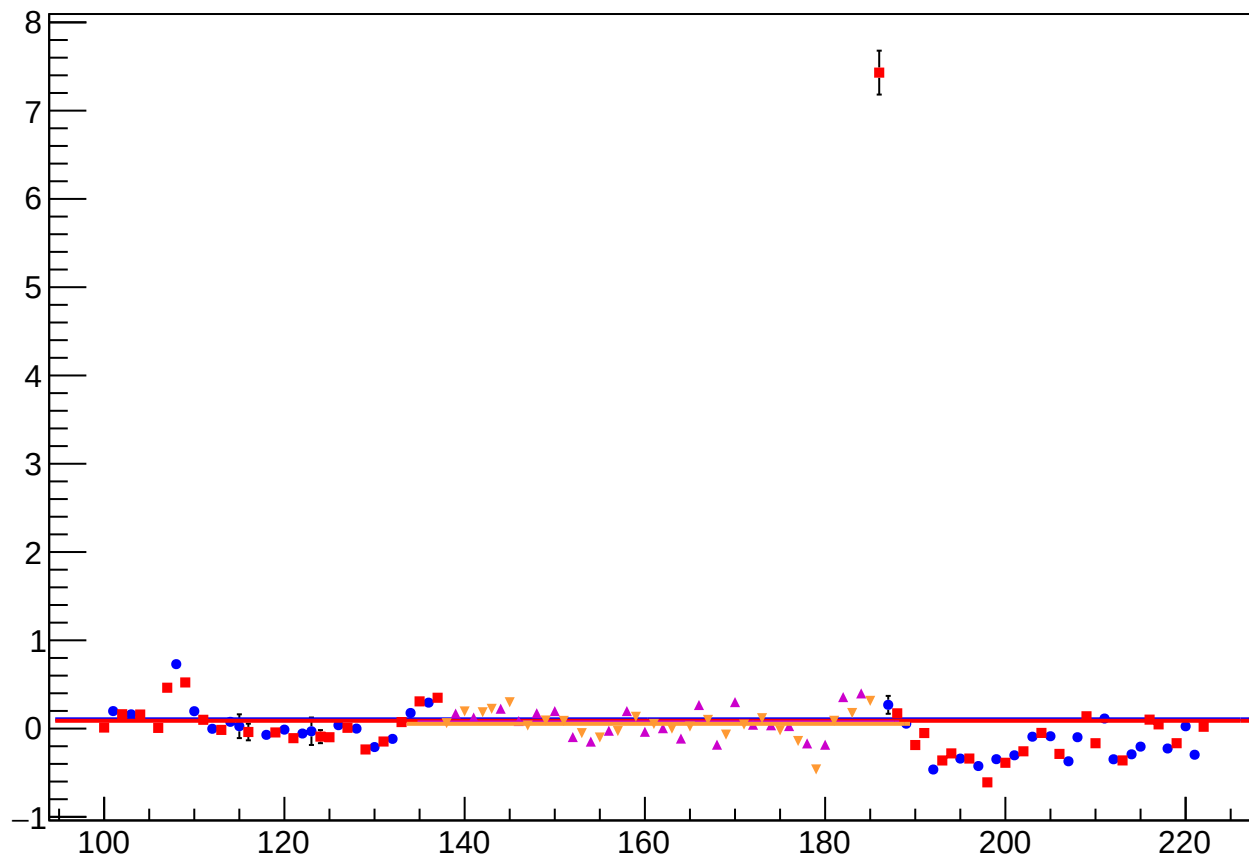
Right: 11.730 ± 0.043 $\chi^2/\text{NDF}: 281854.1/72$

In: 27.784 ± 0.043 $\chi^2/\text{NDF}: 341988.2/57$

Out: 31.667 ± 0.044 $\chi^2/\text{NDF}: 304658.6/62$

All: 29.704 ± 0.031 $\chi^2/\text{NDF}: 650615.8/120$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105 $\pm$ 0.002 χ^2 /NDF: 12056.1/34

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.089 $\pm$ 0.002 χ^2 /NDF: 11156.4/37

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

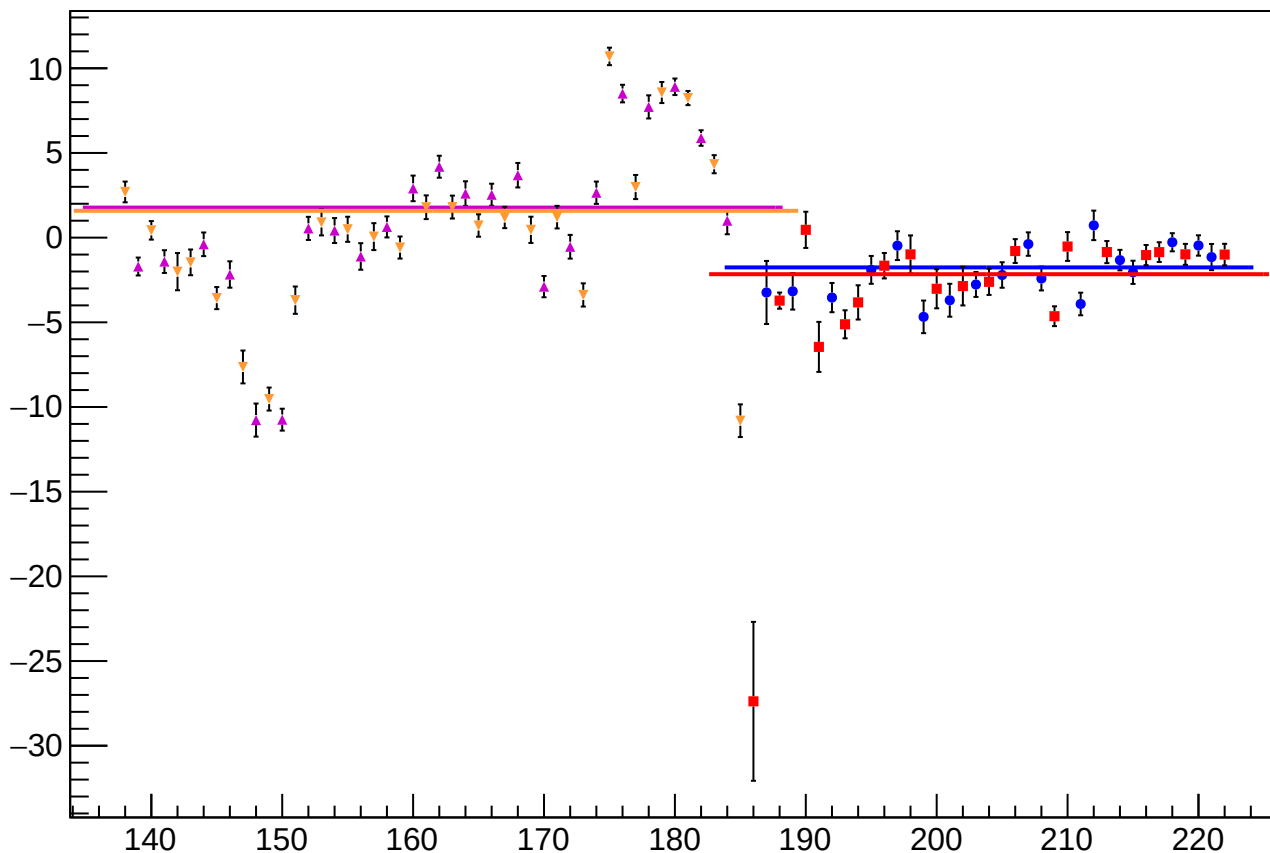
Right: 0.097 $\pm$ 0.002 χ^2 /NDF: 23236.4/72

In: 0.090 $\pm$ 0.002 χ^2 /NDF:15375.2/57

Out: 0.074 $\pm$ 0.002 χ^2 /NDF:13624.0/62

All: 0.082 $\pm$ 0.001 χ^2 /NDF: 29037.7/120

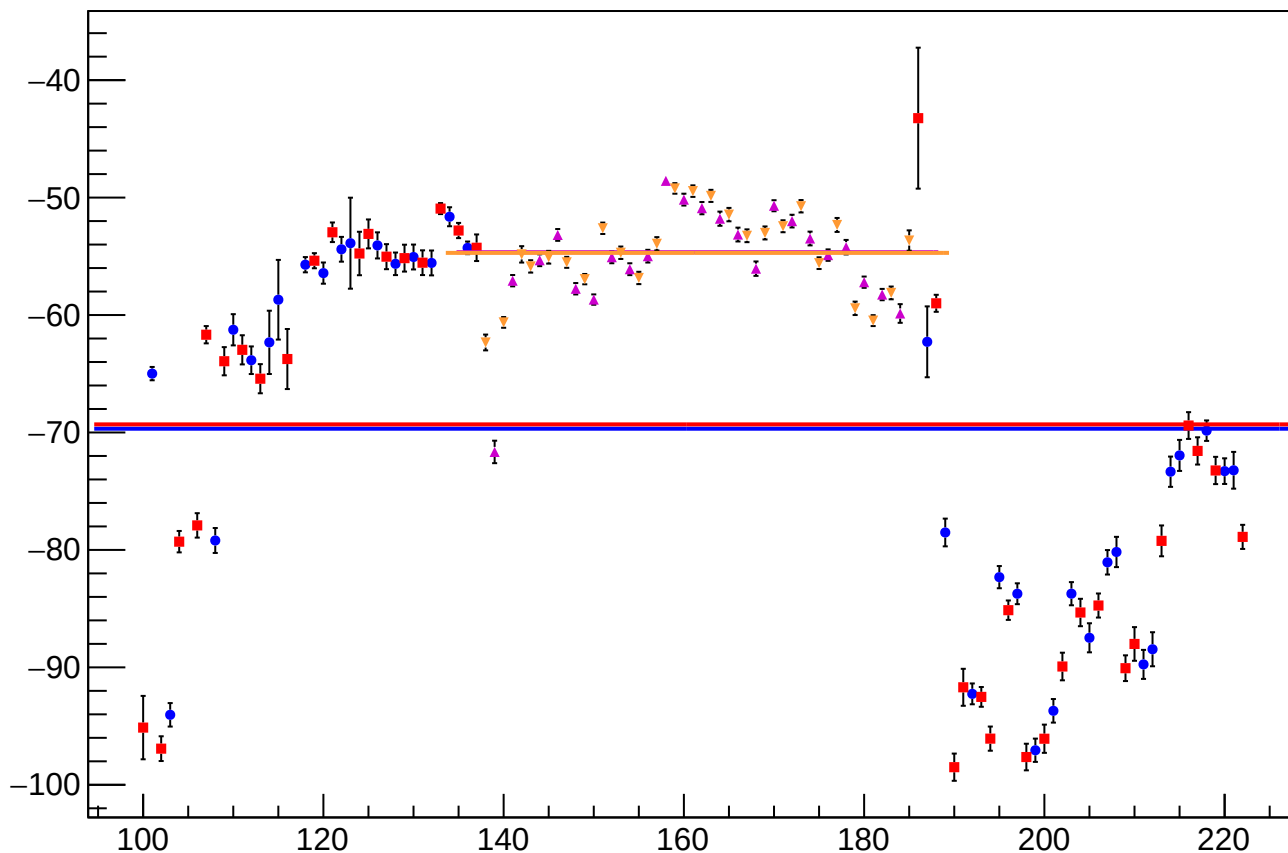
reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.758 ± 0.178 χ^2/NDF : 61.4/17
 Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24
 Right Out: -2.159 ± 0.173 χ^2/NDF : 117.3/18
 Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47
 Right: -1.964 ± 0.124 χ^2/NDF : 181.3/36
 In: 0.481 ± 0.108 χ^2/NDF : 1608.4/40
 Out: 0.196 ± 0.105 χ^2/NDF : 1871.2/43
 All: 0.336 ± 0.075 χ^2/NDF : 3483.2/84

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.679 ± 0.171 χ^2/NDF : 7351.9/34

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -69.311 ± 0.162 χ^2/NDF : 10482.5/37

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

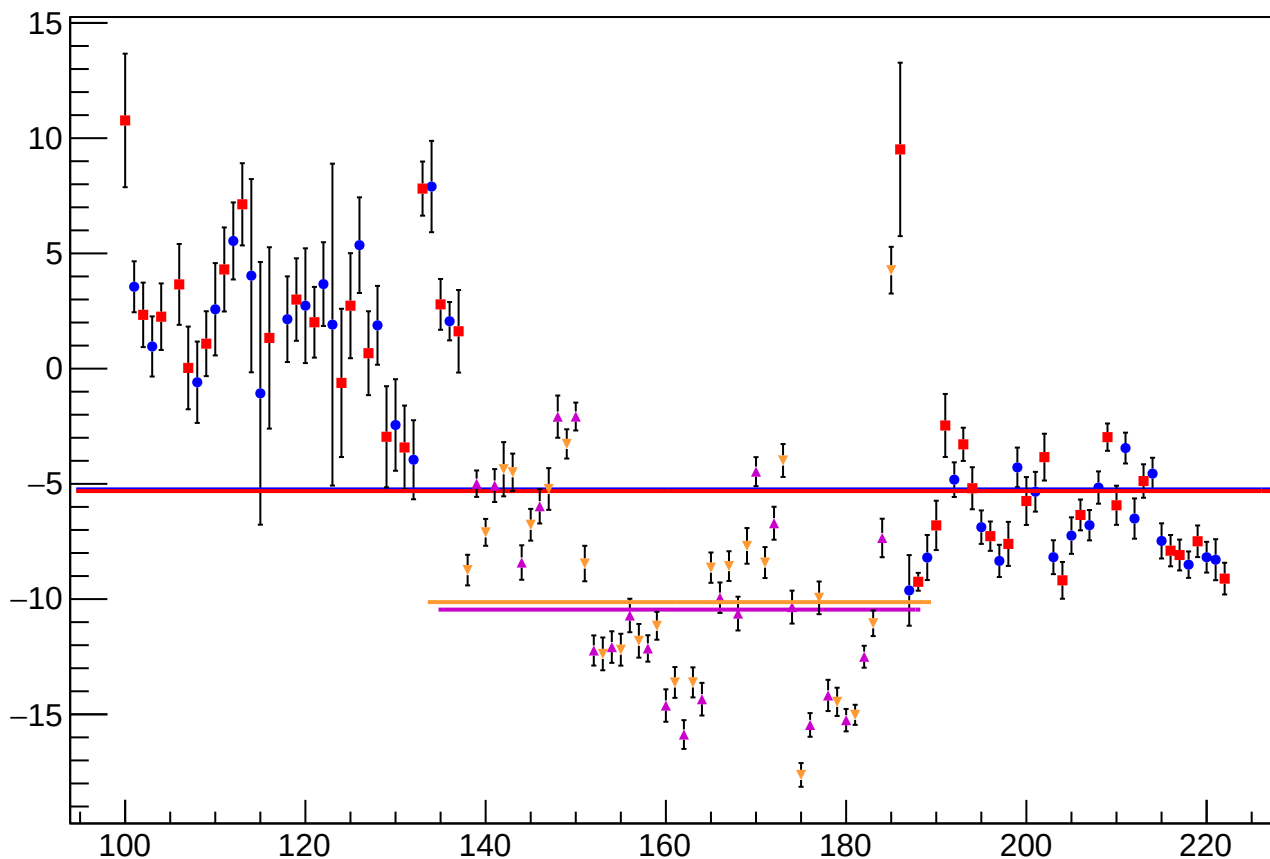
Right: -69.485 ± 0.118 χ^2/NDF : 17836.9/72

In: -59.045 ± 0.092 χ^2/NDF : 13909.3/57

Out: -59.068 ± 0.089 χ^2/NDF : 17308.8/62

All: -59.057 ± 0.064 χ^2/NDF : 31218.1/120

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.240 ± 0.163 $\chi^2/\text{NDF}: 527.3/34$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -5.313 ± 0.154 $\chi^2/\text{NDF}: 754.1/37$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

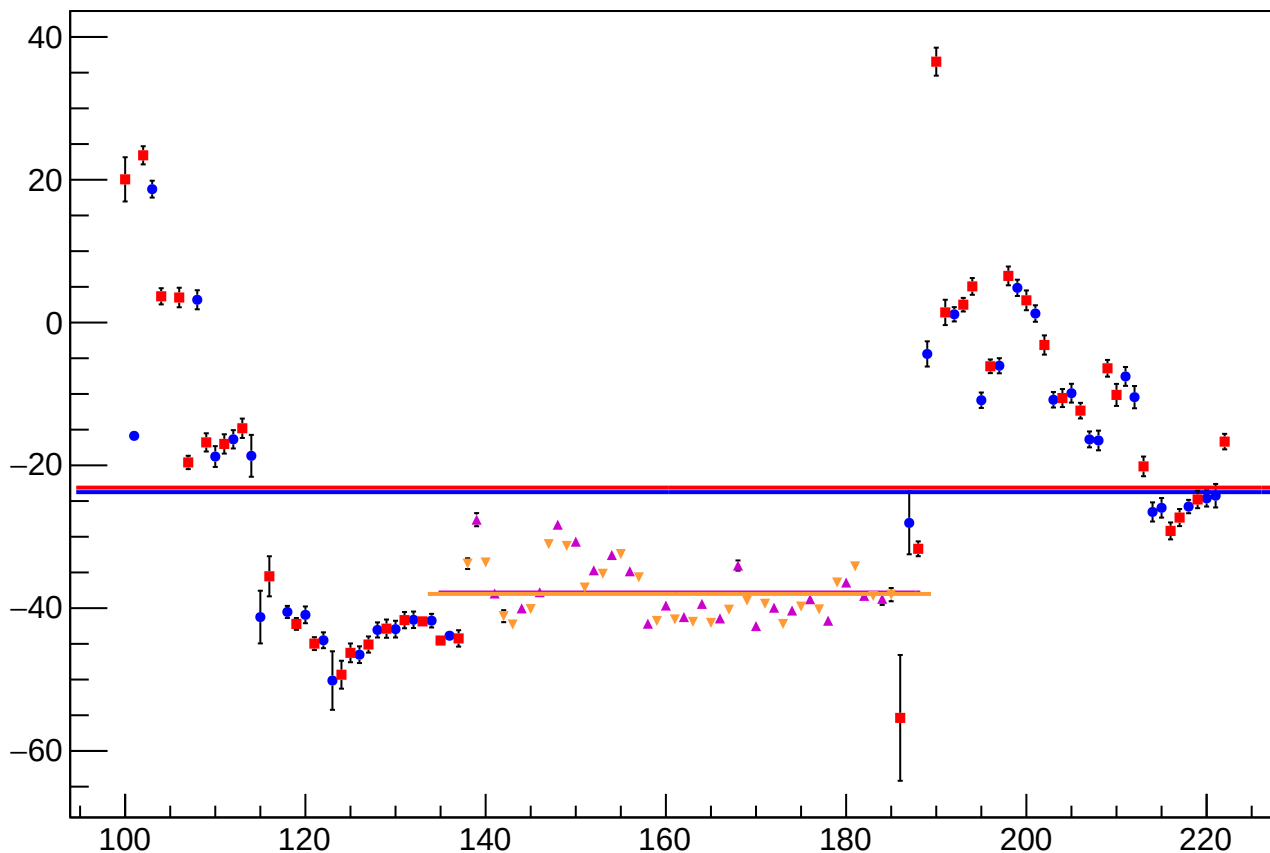
Right: -5.278 ± 0.112 $\chi^2/\text{NDF}: 1281.5/72$

In: -8.340 ± 0.104 $\chi^2/\text{NDF}: 2138.8/57$

Out: -8.083 ± 0.101 $\chi^2/\text{NDF}: 2369.2/62$

All: -8.207 ± 0.072 $\chi^2/\text{NDF}: 4511.1/120$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.754 ± 0.192 $\chi^2/\text{NDF}: 8675.0/34$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.119 ± 0.186 $\chi^2/\text{NDF}: 11966.1/37$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

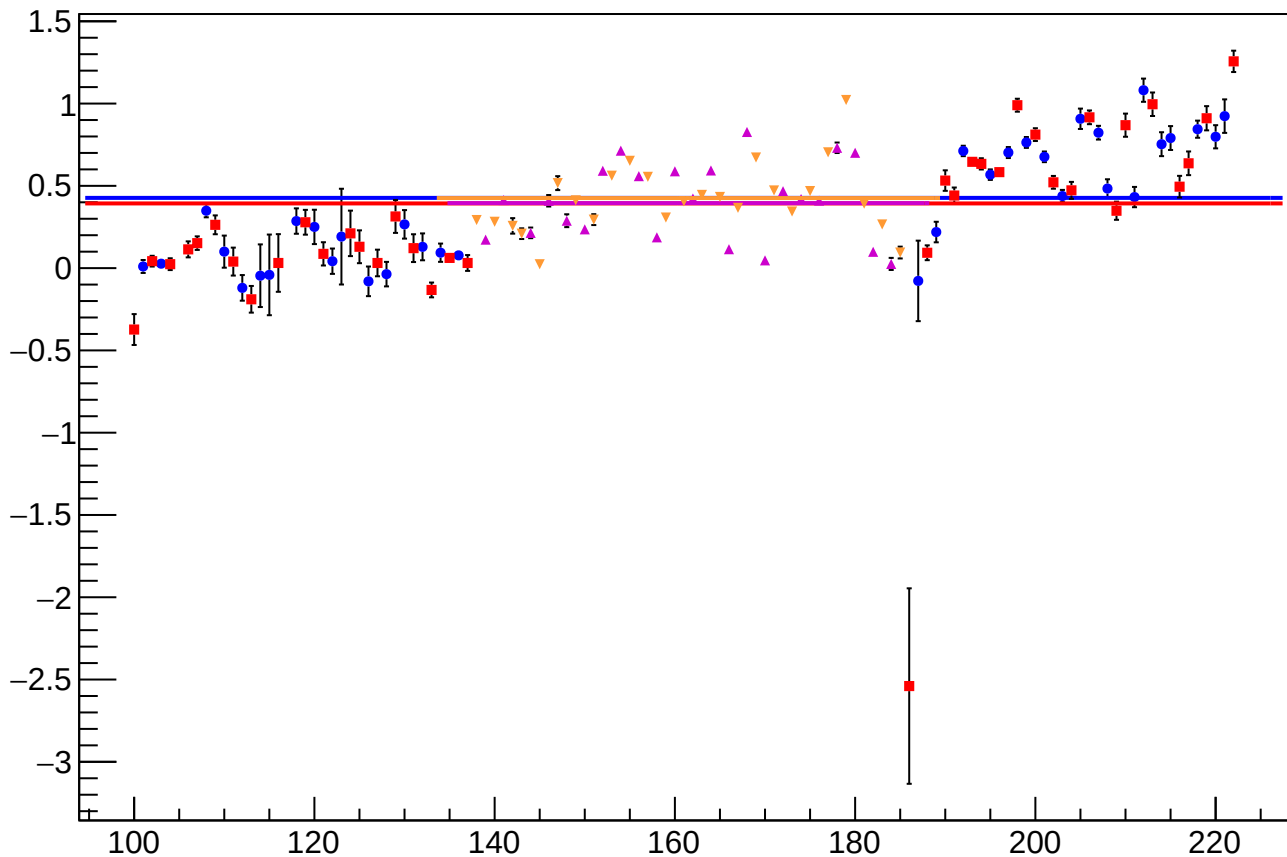
Right: -23.426 ± 0.134 $\chi^2/\text{NDF}: 20646.7/72$

In: -33.767 ± 0.103 $\chi^2/\text{NDF}: 13513.5/57$

Out: -33.697 ± 0.100 $\chi^2/\text{NDF}: 17462.8/62$

All: -33.731 ± 0.072 $\chi^2/\text{NDF}: 30976.5/120$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.427 $\pm$ 0.008 χ^2 /NDF: 1523.5/34

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.393 $\pm$ 0.008 χ^2 /NDF: 1955.9/37

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

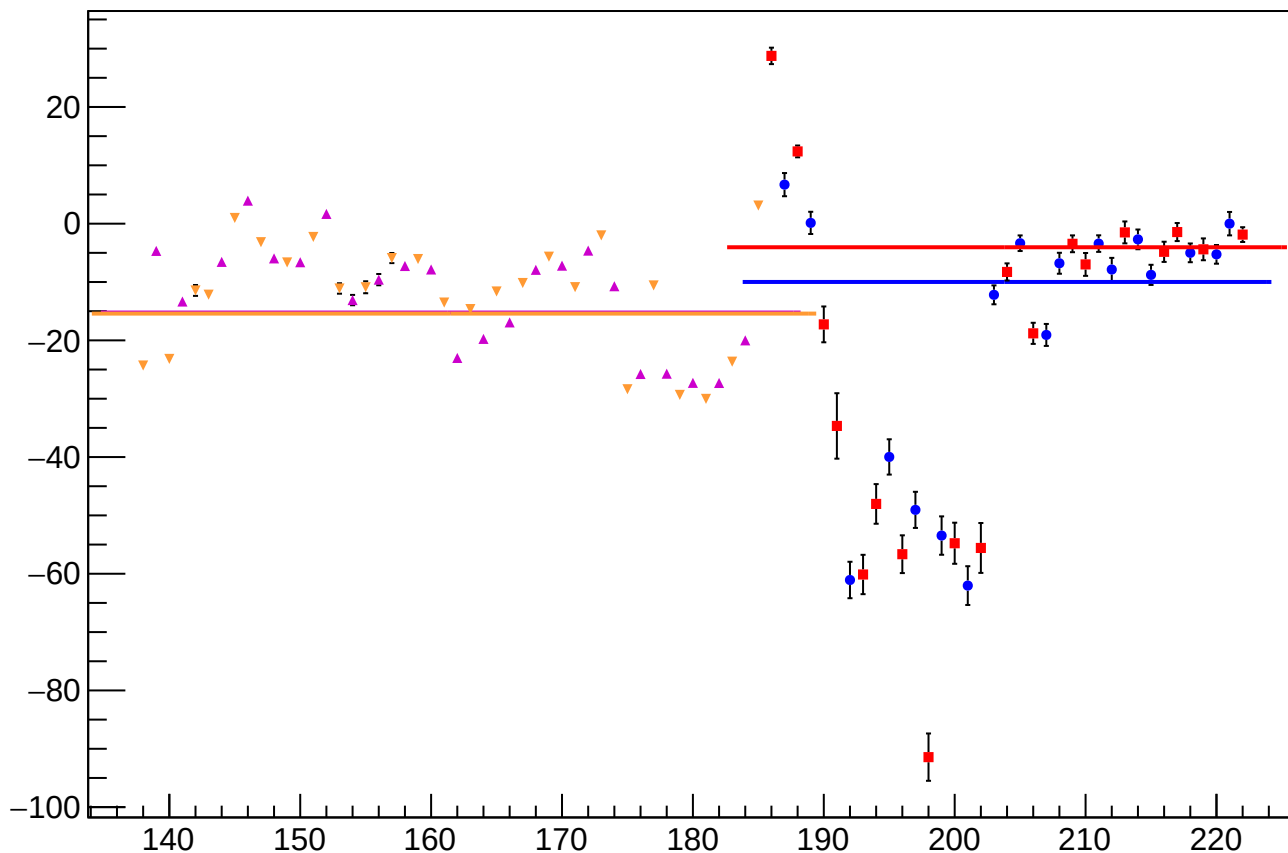
Right: 0.409 $\pm$ 0.006 χ^2 /NDF: 3487.9/72

In: 0.405 $\pm$ 0.005 χ^2 /NDF:3331.9/57

Out: 0.416 $\pm$ 0.004 χ^2 /NDF:3271.1/62

All: 0.410 $\pm$ 0.003 χ^2 /NDF: 6606.0/120

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected

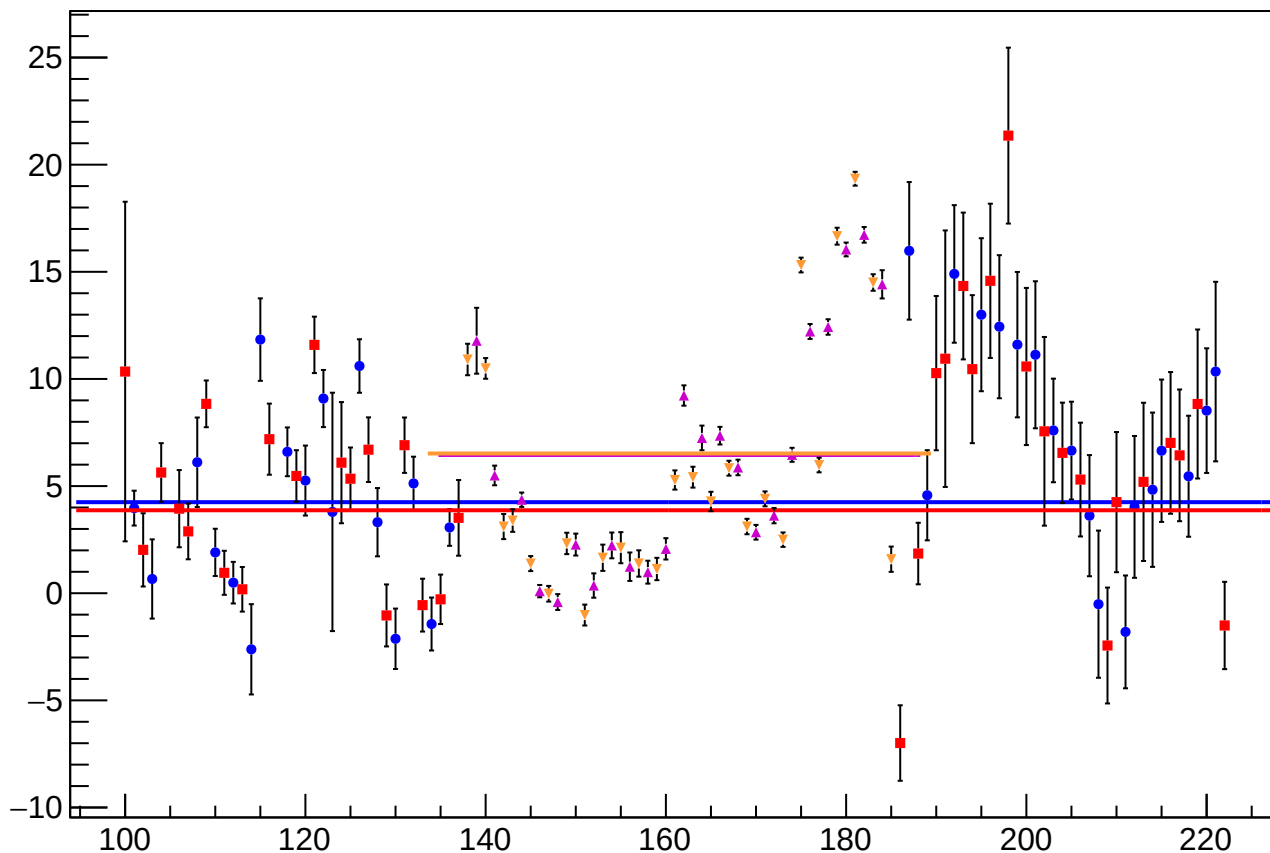


Right In: -9.989 ± 0.446 $\chi^2/\text{NDF}: 1181.3/17$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.042 ± 0.425 $\chi^2/\text{NDF}: 2463.8/18$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$
 Right: -6.869 ± 0.308 $\chi^2/\text{NDF}: 3738.2/36$
 In: -14.946 ± 0.104 $\chi^2/\text{NDF}: 9969.0/40$
 Out: -14.756 ± 0.102 $\chi^2/\text{NDF}: 13647.3/43$

All: -14.850 ± 0.073 $\chi^2/\text{NDF}: 23618.0/84$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.249 $\pm$ 0.284 χ^2/NDF : 198.8/34

Left Out: 6.521 $\pm$ 0.085 χ^2/NDF :4985.2/24

Right Out: 3.872 $\pm$ 0.283 χ^2/NDF : 240.0/37

Left In: 6.452 $\pm$ 0.086 χ^2/NDF :3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2/NDF : 8933.5/47

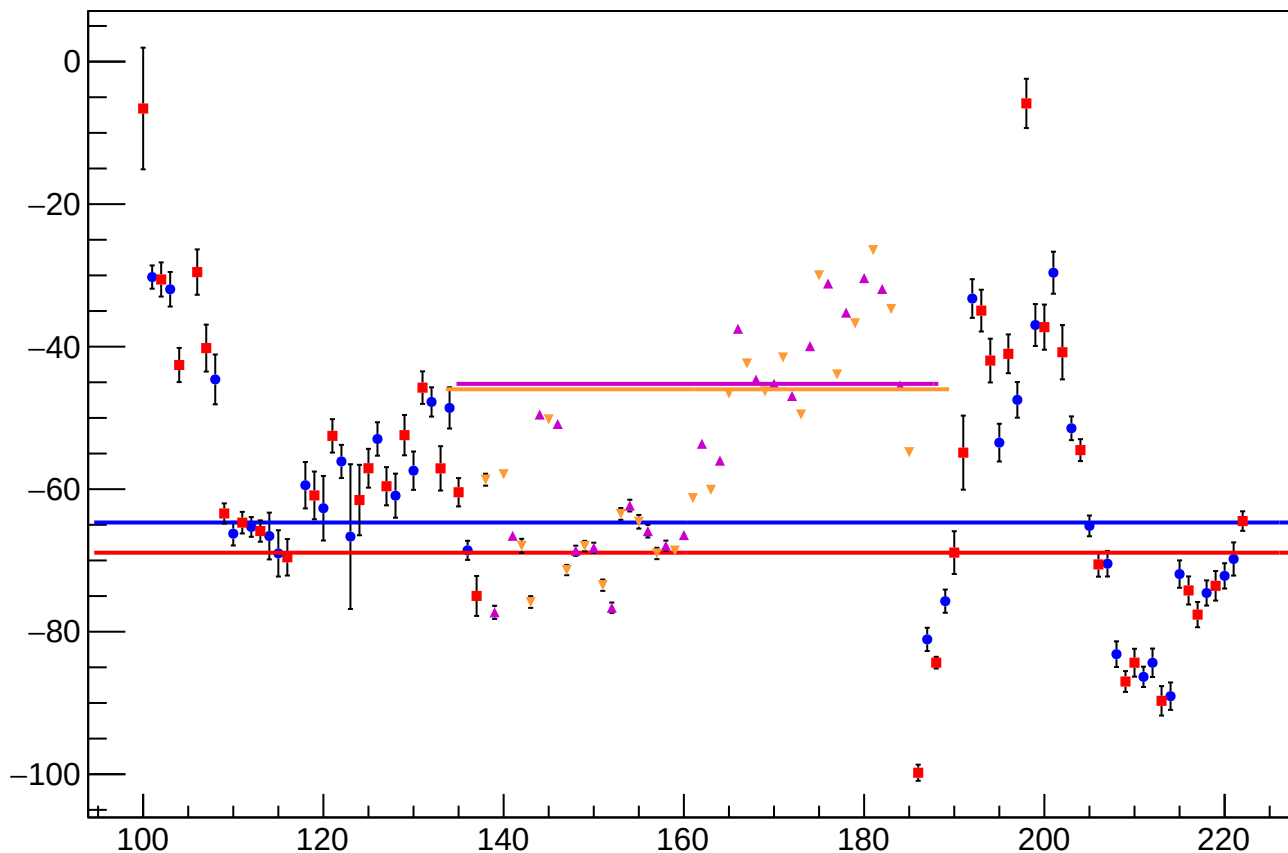
Right: 4.060 $\pm$ 0.201 χ^2/NDF : 439.7/72

In: 6.267 $\pm$ 0.082 χ^2/NDF :4201.9/57

Out: 6.300 $\pm$ 0.082 χ^2/NDF :5305.4/62

All: 6.284 $\pm$ 0.058 χ^2/NDF : 9507.3/120

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.677 $\pm$ 0.346 χ^2 /NDF: 2133.7/34

Left Out: -45.982 $\pm$ 0.106 χ^2 /NDF:17360.1/24

Right Out: -68.913 $\pm$ 0.323 χ^2 /NDF: 3309.8/37

Left In: -45.222 $\pm$ 0.107 χ^2 /NDF:15600.2/22

Left: -45.605 $\pm$ 0.075 χ^2 /NDF: 32985.7/47

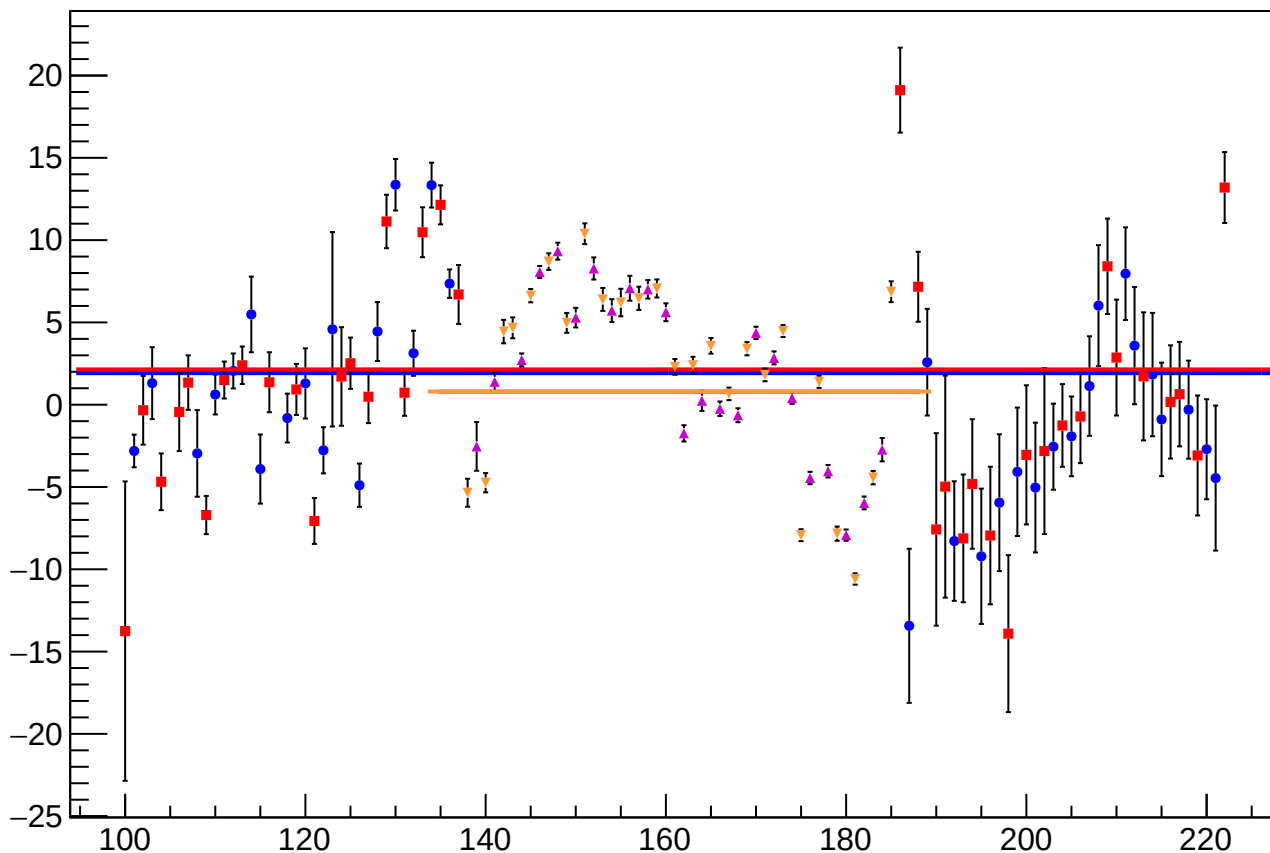
Right: -66.938 $\pm$ 0.236 χ^2 /NDF: 5523.5/72

In: -46.927 $\pm$ 0.102 χ^2 /NDF:20620.4/57

Out: -48.218 $\pm$ 0.101 χ^2 /NDF:25212.3/62

All: -47.582 $\pm$ 0.072 χ^2 /NDF: 45913.4/120

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.918 ± 0.318 χ^2/NDF : 297.4/34

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 2.147 ± 0.321 χ^2/NDF : 384.0/37

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

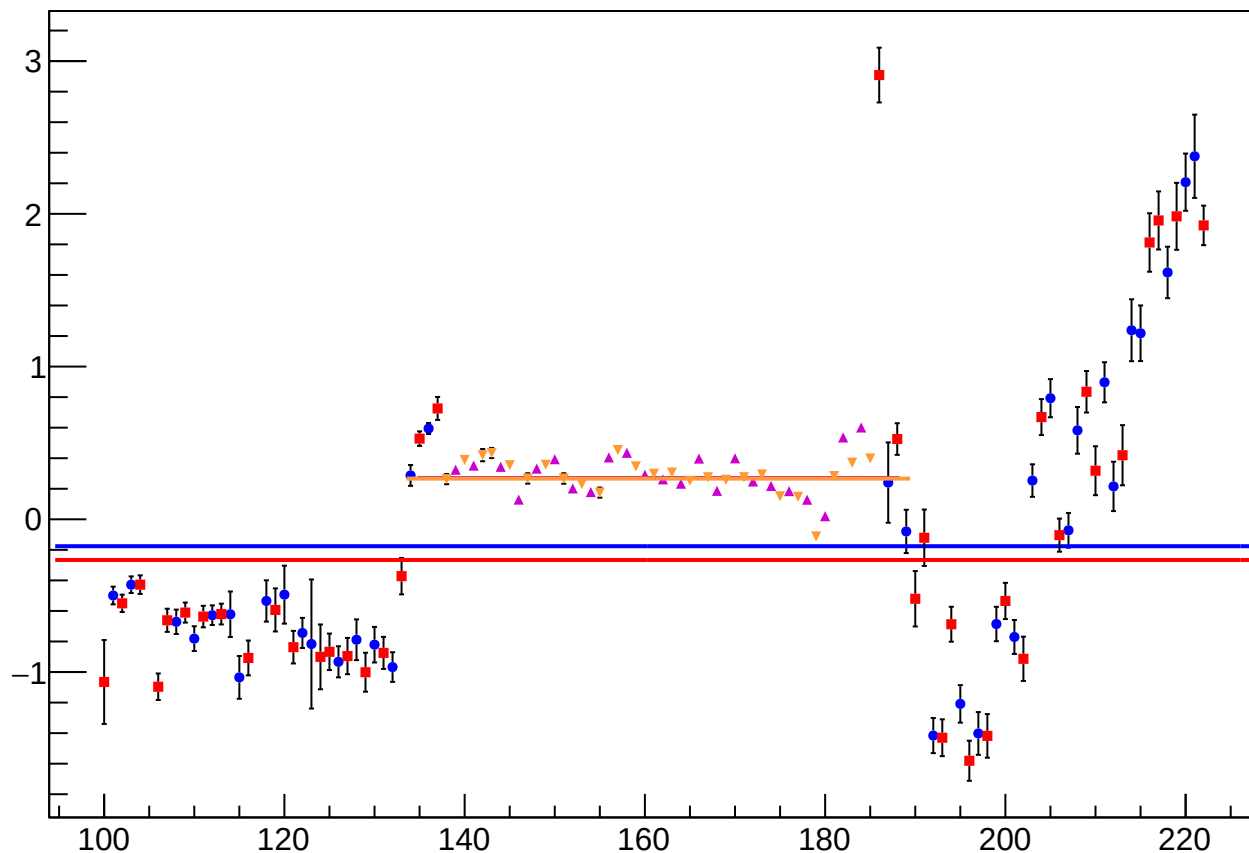
Right: 2.031 ± 0.226 χ^2/NDF : 681.6/72

In: 0.887 ± 0.092 χ^2/NDF : 3001.3/57

Out: 0.907 ± 0.092 χ^2/NDF : 4160.1/62

All: 0.897 ± 0.065 χ^2/NDF : 7161.5/120

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.176 ± 0.016 $\chi^2/\text{NDF}: 1926.4/34$

Left Out: 0.267 ± 0.004 $\chi^2/\text{NDF}: 699.8/24$

Right Out: -0.266 ± 0.016 $\chi^2/\text{NDF}: 2363.9/37$

Left In: 0.270 ± 0.004 $\chi^2/\text{NDF}: 969.9/22$

Left: 0.268 ± 0.003 $\chi^2/\text{NDF}: 1670.1/47$

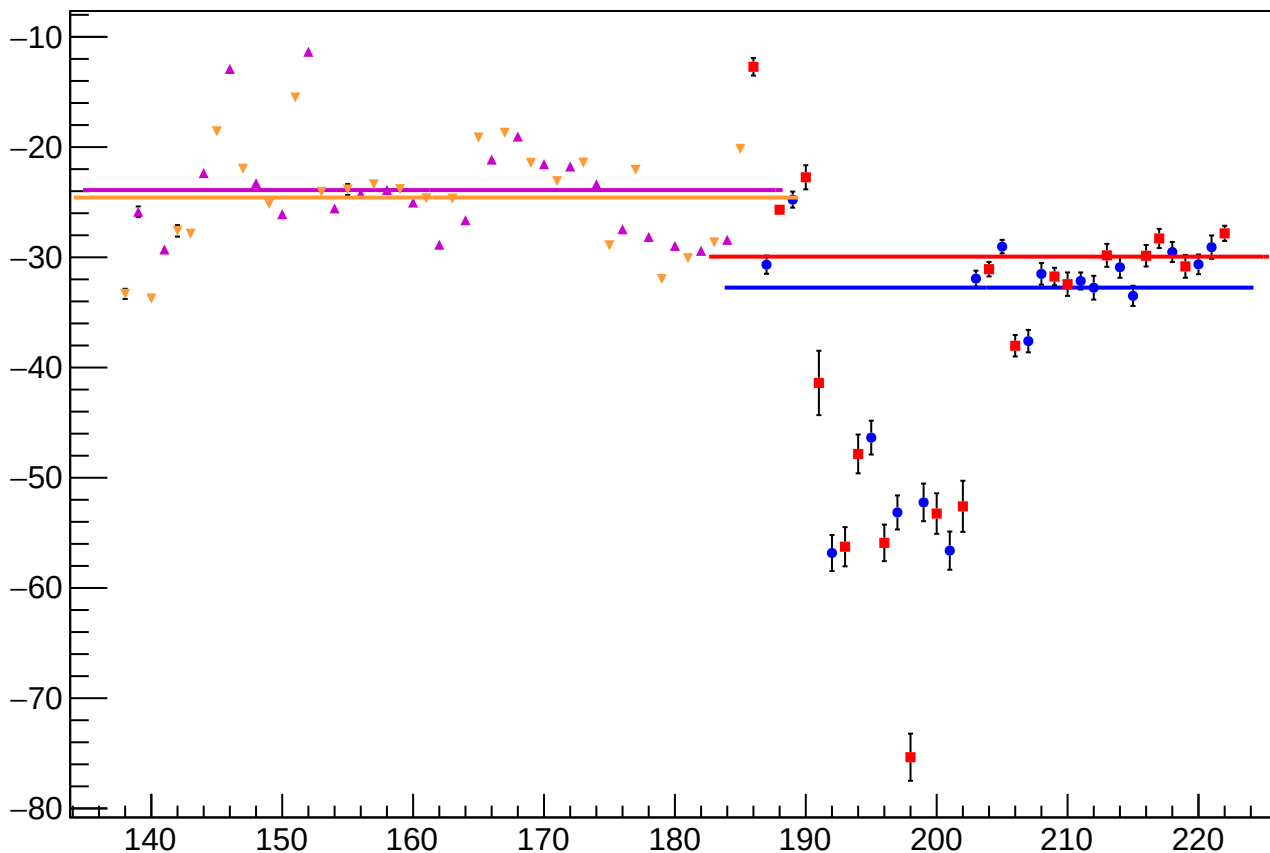
Right: -0.221 ± 0.012 $\chi^2/\text{NDF}: 4305.3/72$

In: 0.240 ± 0.004 $\chi^2/\text{NDF}: 3585.8/57$

Out: 0.231 ± 0.004 $\chi^2/\text{NDF}: 4054.0/62$

All: 0.236 ± 0.003 $\chi^2/\text{NDF}: 7641.9/120$

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected

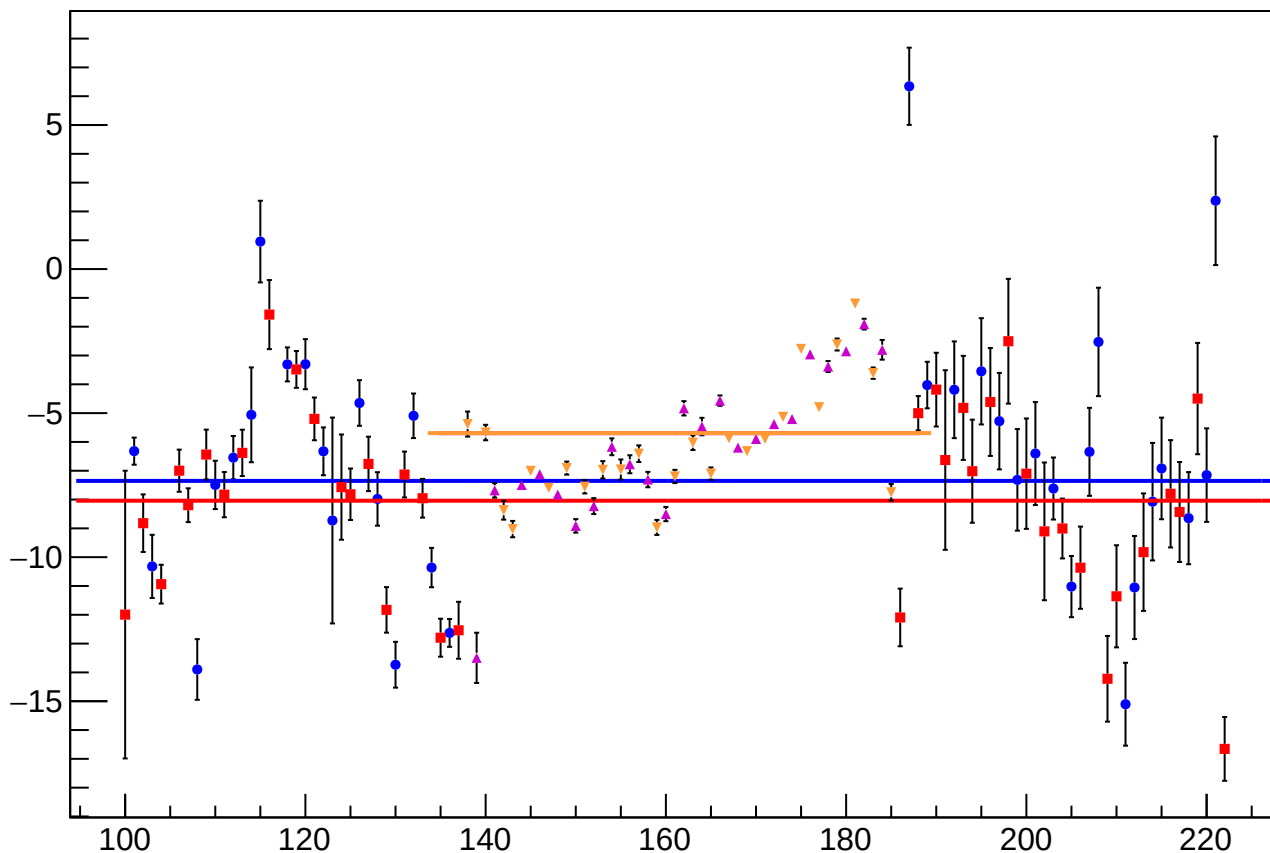


Right In: -32.750 ± 0.224 χ^2/NDF : 1013.4/17
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -29.939 ± 0.214 χ^2/NDF : 1998.8/18
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47
 Right: -31.282 ± 0.155 χ^2/NDF : 3094.5/36
 In: -24.339 ± 0.050 χ^2/NDF : 11653.1/40
 Out: -24.865 ± 0.050 χ^2/NDF : 11182.3/43

All: -24.603 ± 0.035 χ^2/NDF : 22891.3/84

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.352 ± 0.164 χ^2/NDF : 585.5/34

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -8.040 ± 0.160 χ^2/NDF : 377.9/37

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

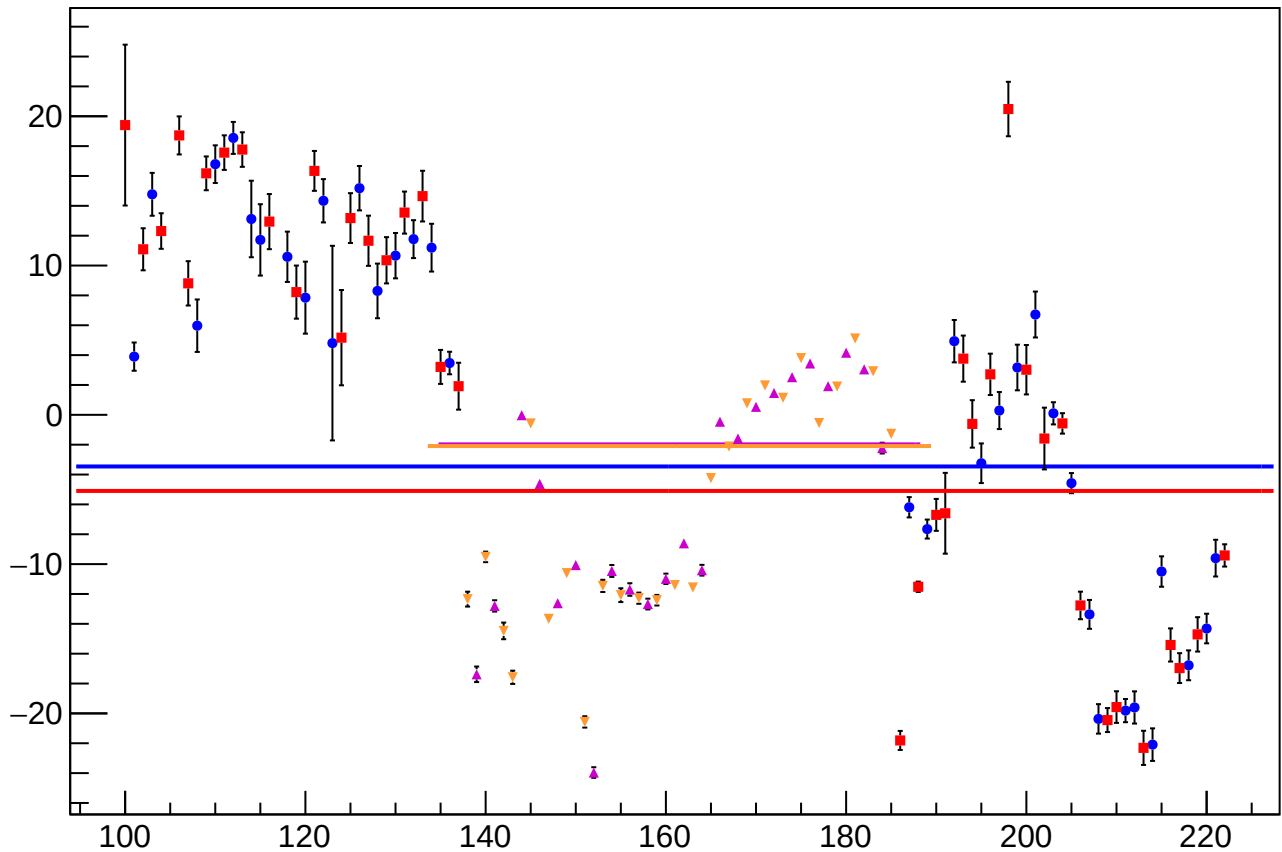
Right: -7.706 ± 0.115 χ^2/NDF : 972.4/72

In: -5.792 ± 0.040 χ^2/NDF : 2990.9/57

Out: -5.839 ± 0.040 χ^2/NDF : 2838.2/62

All: -5.816 ± 0.028 χ^2/NDF : 5829.8/120

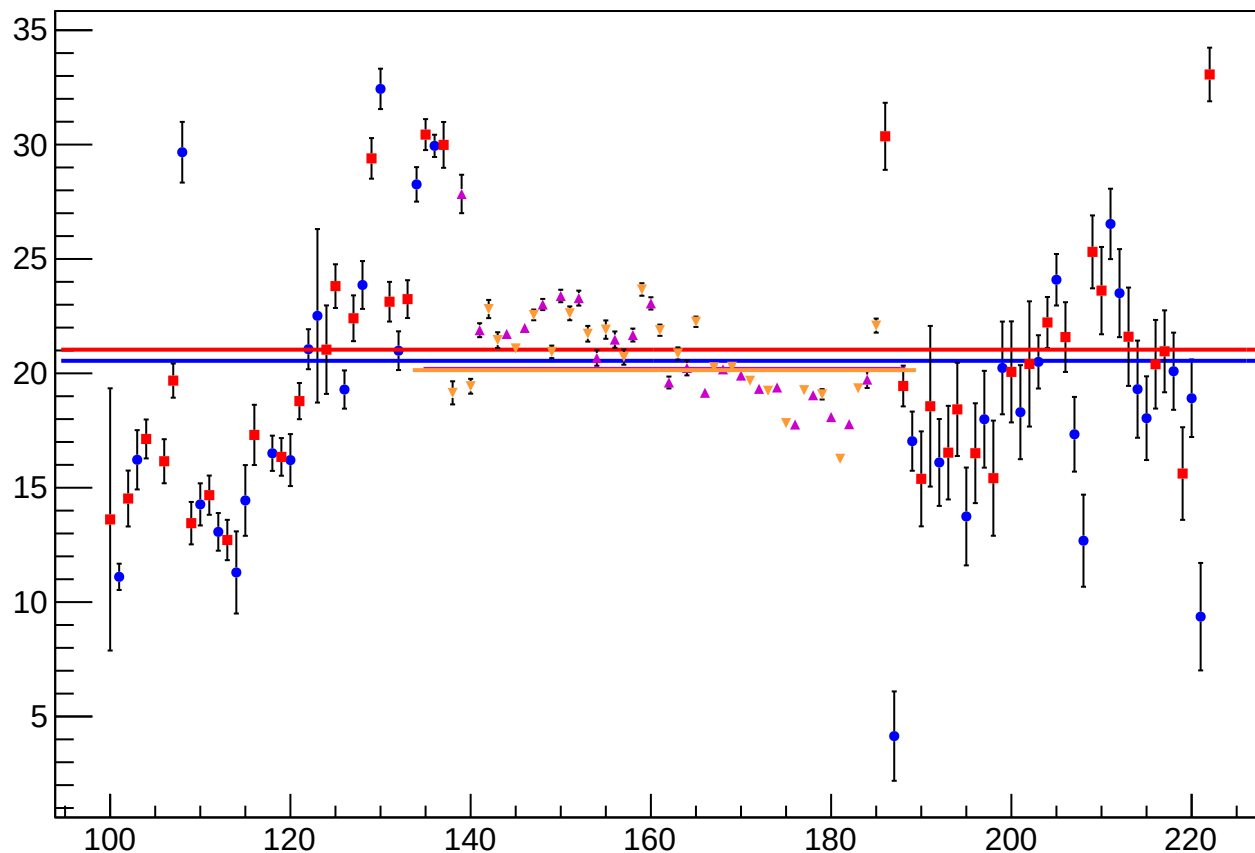
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.459 ± 0.186 χ^2/NDF : 3771.0/34
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -5.098 ± 0.172 χ^2/NDF : 5602.2/37
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -4.343 ± 0.126 χ^2/NDF : 9415.2/72
 In: -2.085 ± 0.049 χ^2/NDF : 19212.3/57
 Out: -2.339 ± 0.049 χ^2/NDF : 22188.9/62
 All: -2.213 ± 0.035 χ^2/NDF : 41414.4/120

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.548 $\pm$ 0.187 χ^2 /NDF: 1383.5/34

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 21.035 $\pm$ 0.186 χ^2 /NDF: 915.1/37

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

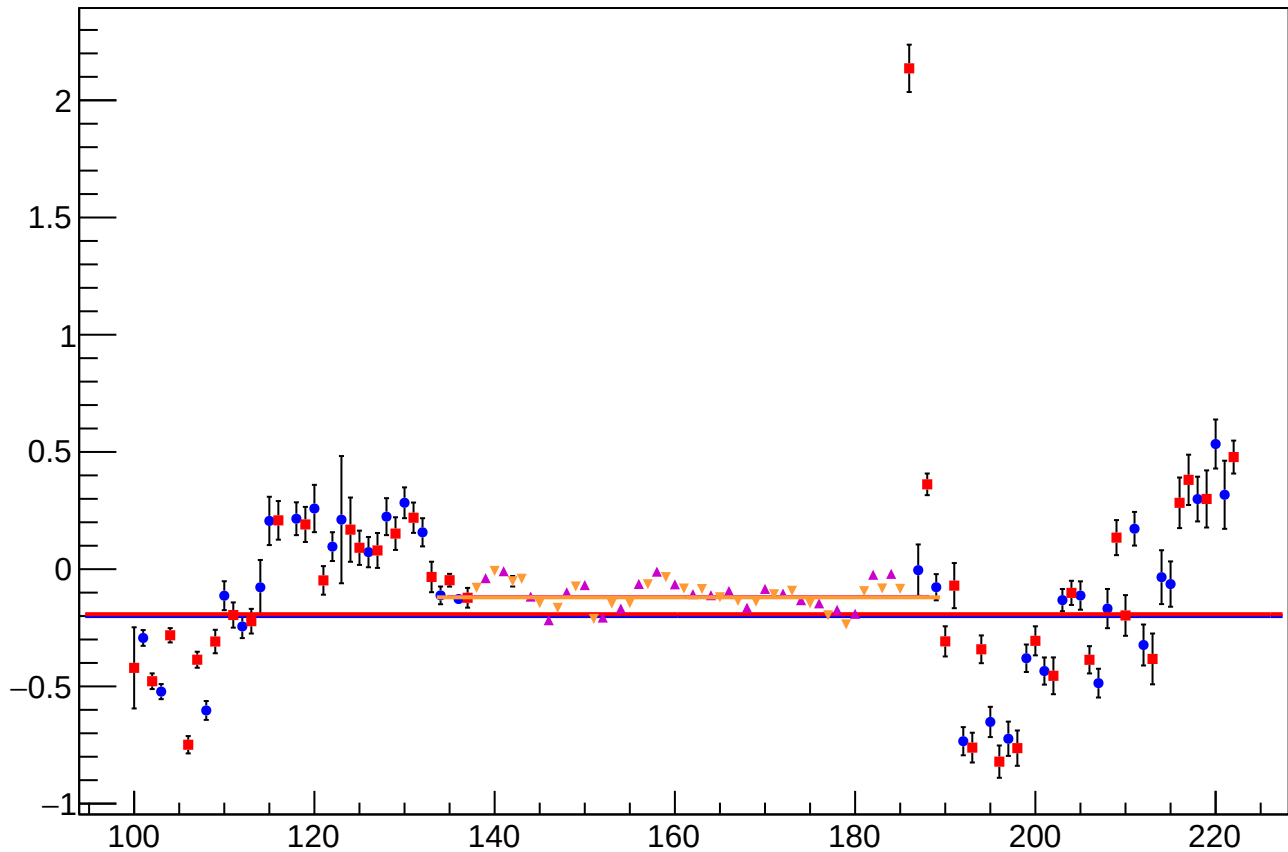
Right: 20.792 $\pm$ 0.132 χ^2 /NDF: 2302.1/72

In: 20.214 $\pm$ 0.045 χ^2 /NDF:2834.3/57

Out: 20.192 $\pm$ 0.045 χ^2 /NDF:2356.1/62

All: 20.203 $\pm$ 0.032 χ^2 /NDF: 5190.5/120

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.200 ± 0.009 χ^2/NDF : 825.1/34

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.192 ± 0.009 χ^2/NDF : 1655.6/37

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

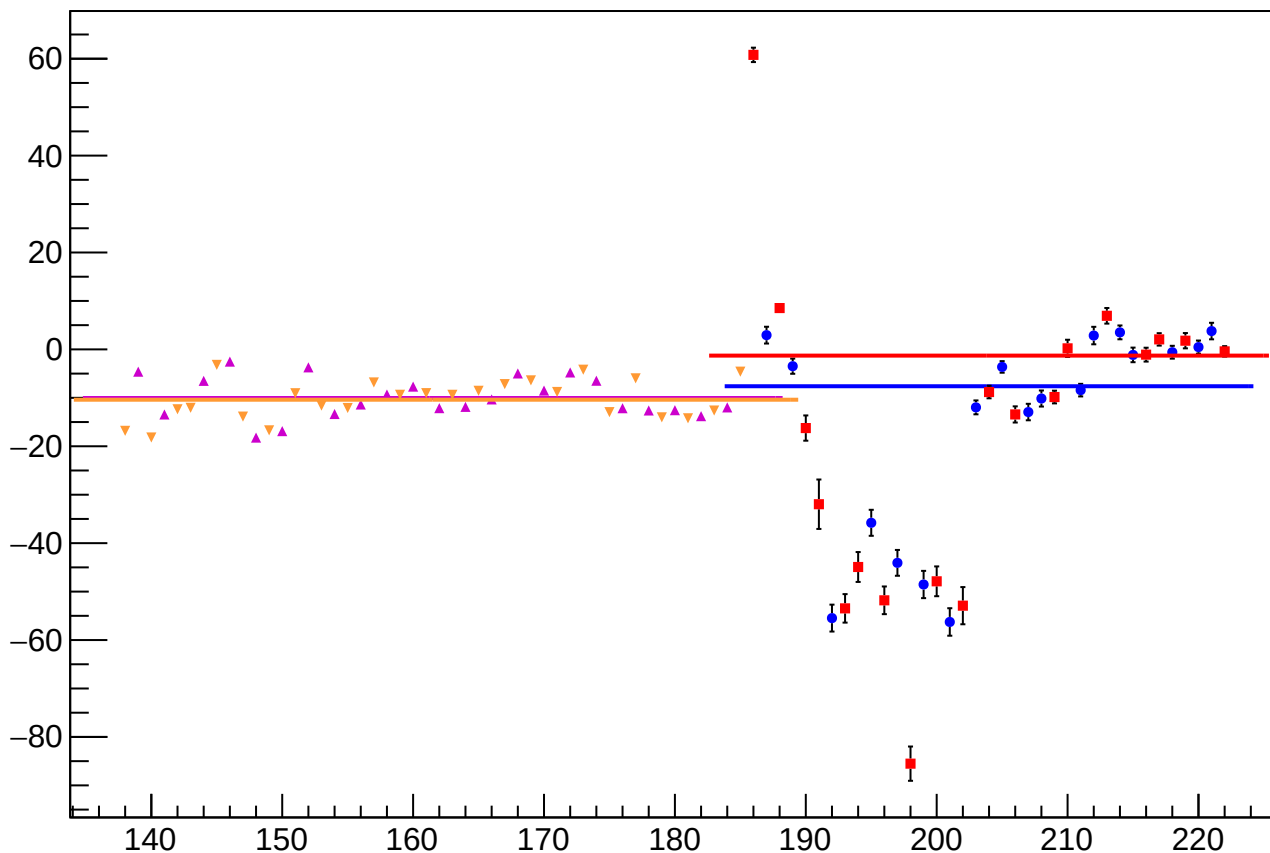
Right: -0.196 ± 0.007 χ^2/NDF : 2481.1/72

In: -0.123 ± 0.002 χ^2/NDF : 1619.6/57

Out: -0.124 ± 0.002 χ^2/NDF : 2245.3/62

All: -0.123 ± 0.001 χ^2/NDF : 3865.1/120

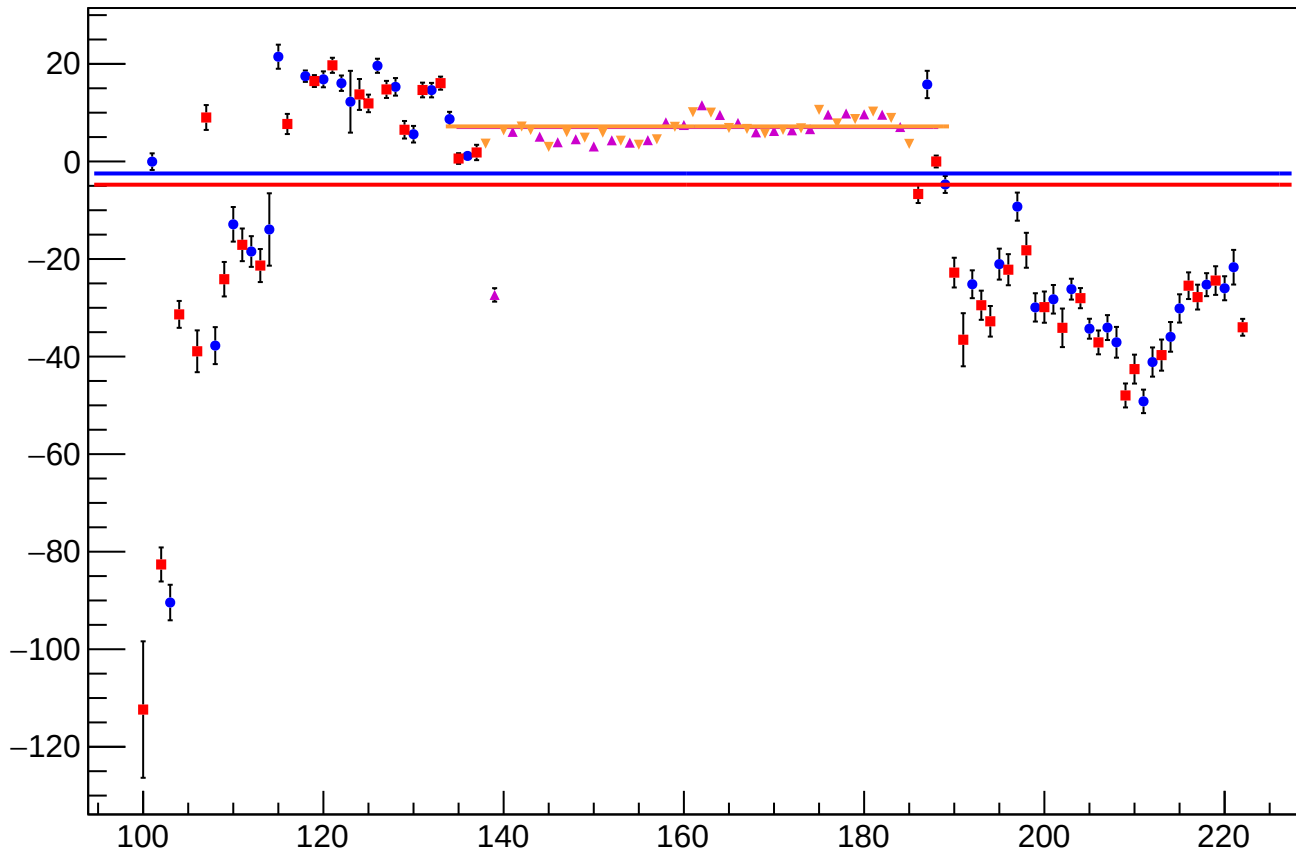
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.609±/0.390 χ^2/NDF : 1397.6/17
 Left Out: -10.391±/0.088 χ^2/NDF :2111.6/24
 Right Out: -1.285±/0.373 χ^2/NDF : 3915.0/18
 Left In: -10.036±/0.090 χ^2/NDF :1758.7/22

Left: -10.217±/0.063 χ^2/NDF : 3878.3/47
 Right: -4.307±/0.269 χ^2/NDF : 5450.1/36
 In: -9.914±/0.087 χ^2/NDF :3193.1/40
 Out: -9.912±/0.085 χ^2/NDF :6591.5/43
 All: -9.913±/0.061 χ^2/NDF : 9784.7/84

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.464 ± 0.339 χ^2/NDF : 3860.8/34

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -4.764 ± 0.344 χ^2/NDF : 3889.9/37

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

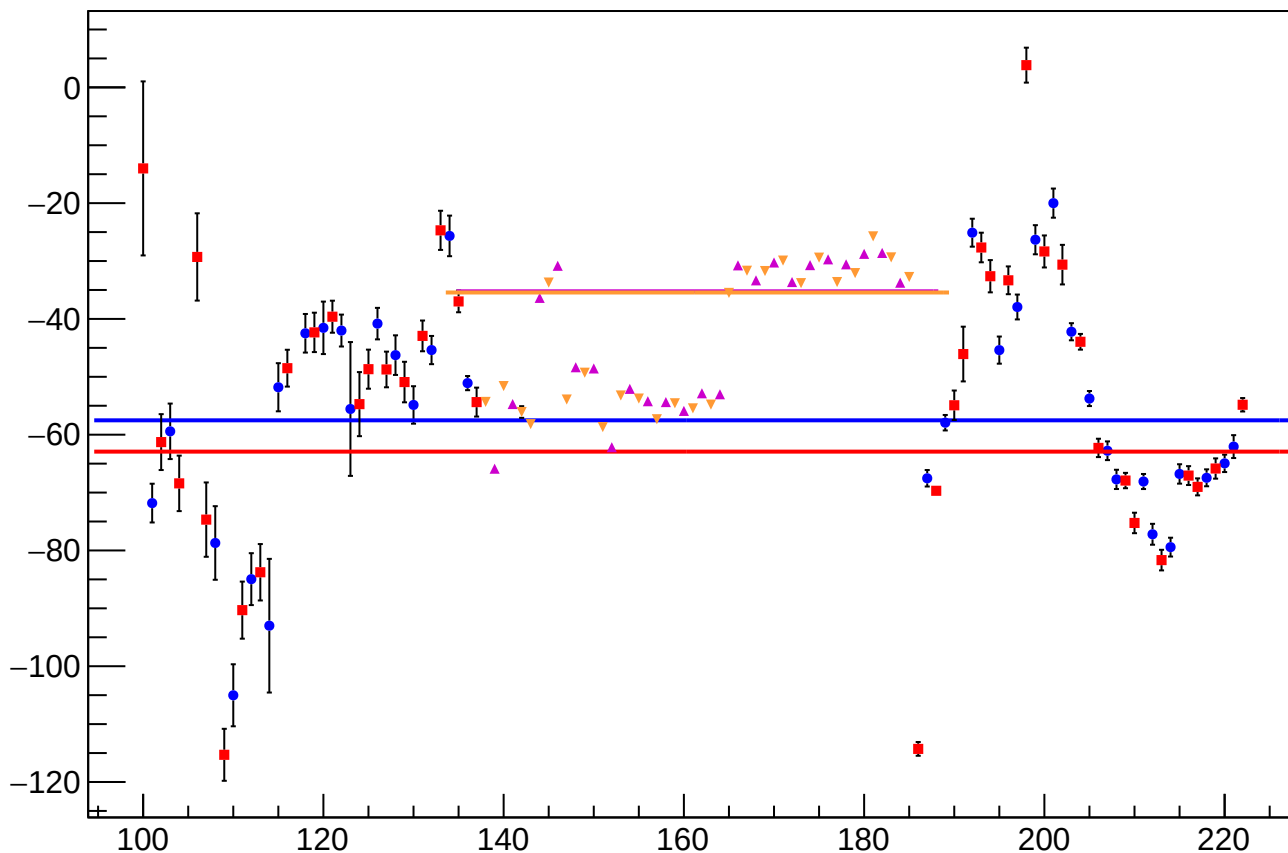
Right: -3.598 ± 0.241 χ^2/NDF : 7773.4/72

In: 6.617 ± 0.072 χ^2/NDF : 6150.1/57

Out: 6.662 ± 0.072 χ^2/NDF : 5963.2/62

All: 6.640 ± 0.051 χ^2/NDF : 12113.4/120

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.519 $\pm$ 0.346 χ^2 /NDF: 1757.4/34

Left Out: -35.434 $\pm$ 0.089 χ^2 /NDF:12782.8/24

Right Out: -62.926 $\pm$ 0.326 χ^2 /NDF: 4415.2/37

Left In: -35.229 $\pm$ 0.090 χ^2 /NDF:11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2 /NDF: 24388.3/47

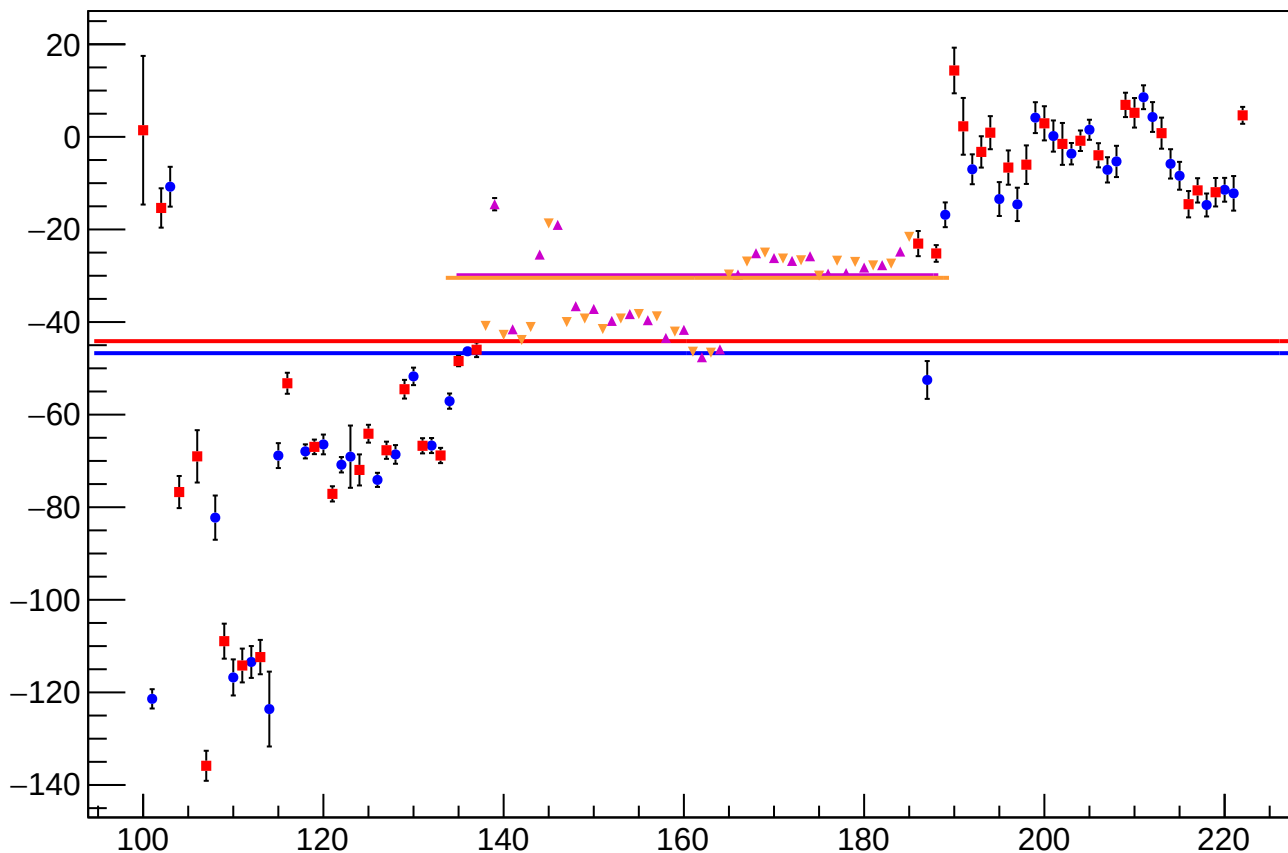
Right: -60.381 $\pm$ 0.237 χ^2 /NDF: 6301.7/72

In: -36.643 $\pm$ 0.087 χ^2 /NDF:17243.7/57

Out: -37.337 $\pm$ 0.086 χ^2 /NDF:23801.7/62

All: -36.996 $\pm$ 0.061 χ^2 /NDF: 41077.5/120

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -46.723+/-0.377 χ^2/NDF : 6952.1/34

Left Out: -30.448+/-0.082 χ^2/NDF : 8167.7/24

Right Out: -44.127+/-0.391 χ^2/NDF : 6989.6/37

Left In: -29.892+/-0.083 χ^2/NDF : 7115.0/22

Left: -30.174+/-0.058 χ^2/NDF : 15305.7/47

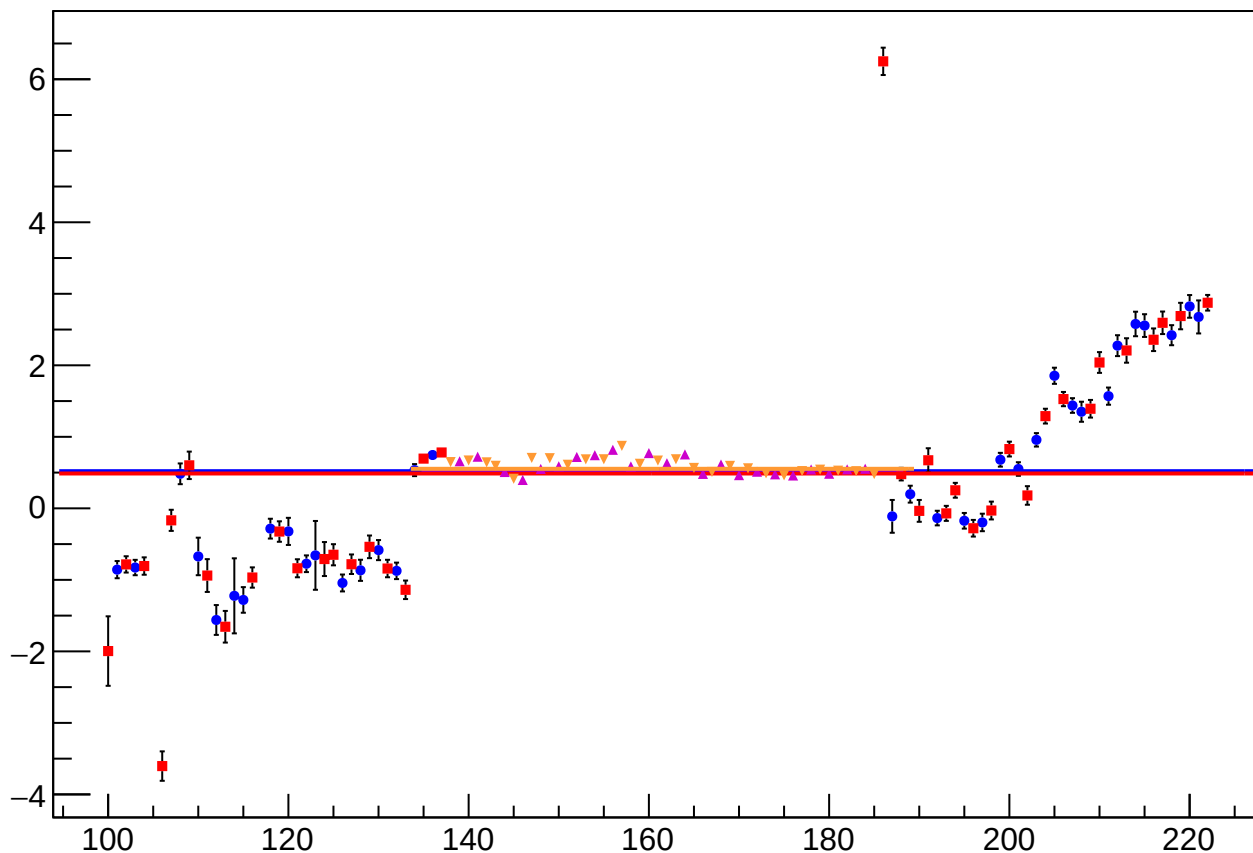
Right: -45.472+/-0.271 χ^2/NDF : 13964.6/72

In: -30.664+/-0.081 χ^2/NDF : 15971.2/57

Out: -31.019+/-0.080 χ^2/NDF : 16332.9/62

All: -30.843+/-0.057 χ^2/NDF : 32313.9/120

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.520 $\pm$ 0.019 χ^2 /NDF: 2641.8/34

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.487 $\pm$ 0.019 χ^2 /NDF: 3995.0/37

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

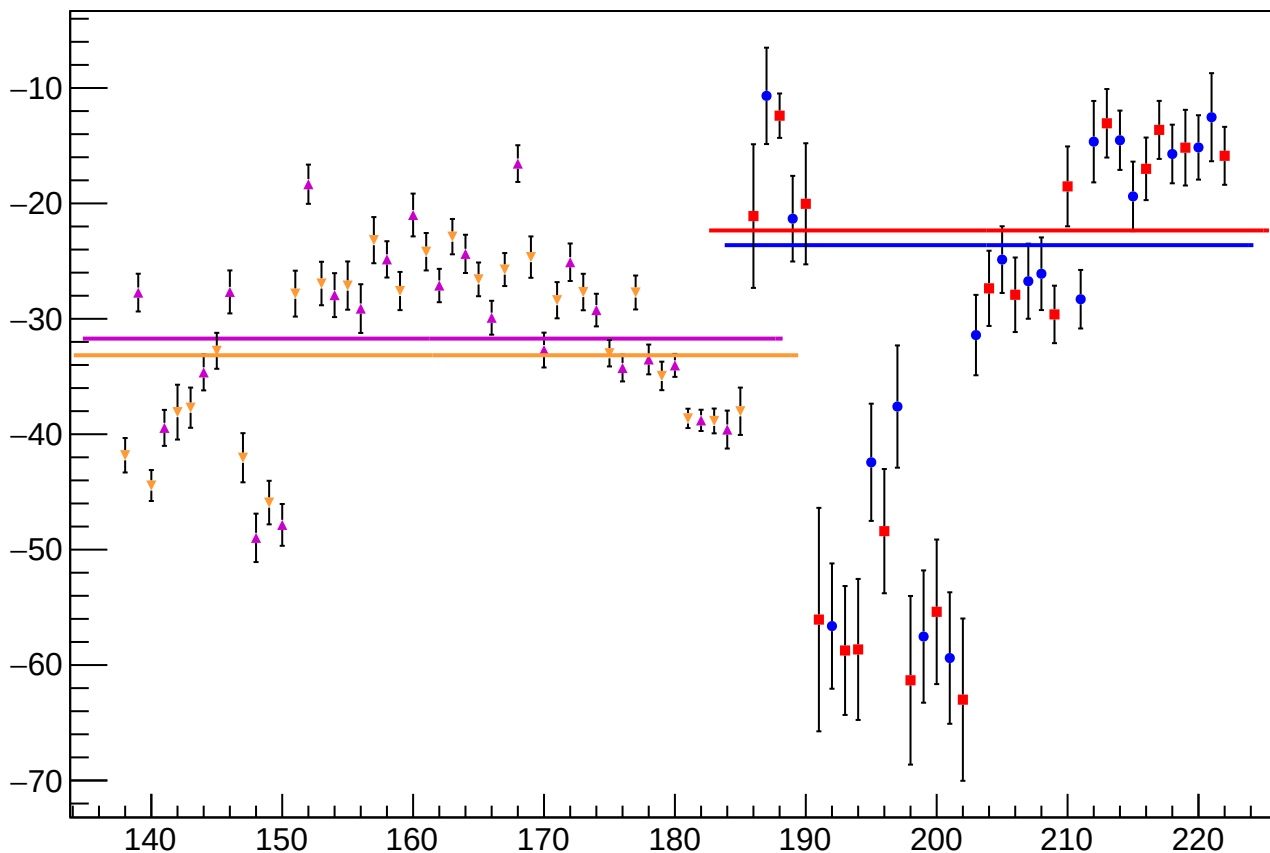
Right: 0.504 $\pm$ 0.013 χ^2 /NDF: 6638.3/72

In: 0.543 $\pm$ 0.004 χ^2 /NDF: 3299.3/57

Out: 0.551 $\pm$ 0.004 χ^2 /NDF: 4548.2/62

All: 0.547 $\pm$ 0.003 χ^2 /NDF: 7849.7/120

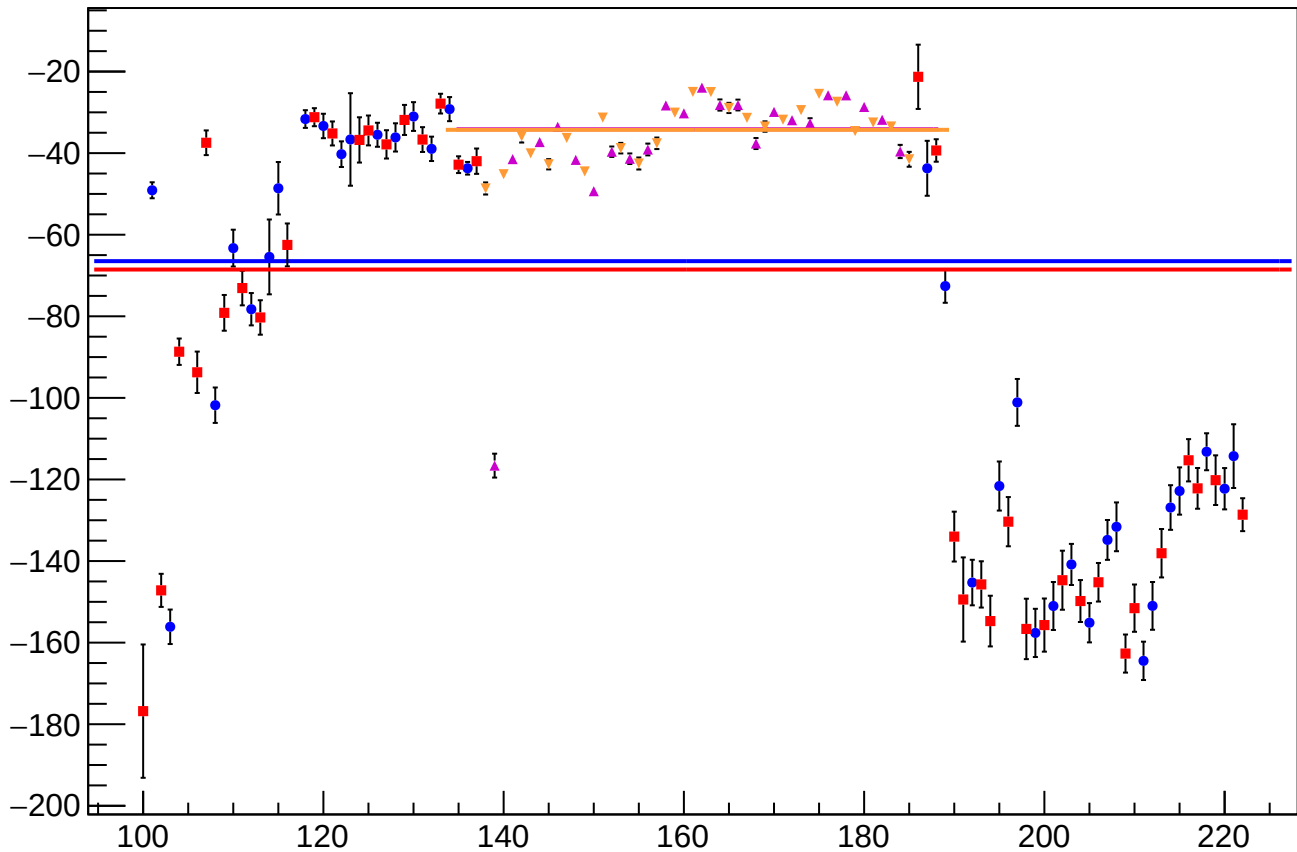
reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.618 ± 0.804 χ^2/NDF : 200.5/17
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -22.344 ± 0.792 χ^2/NDF : 282.2/18
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -22.971 ± 0.564 χ^2/NDF : 484.0/36
 In: -30.673 ± 0.288 χ^2/NDF : 831.1/40
 Out: -31.798 ± 0.281 χ^2/NDF : 945.4/43
 All: -31.250 ± 0.201 χ^2/NDF : 1784.3/84

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -66.479 ± 0.633 $\chi^2/\text{NDF}: 4590.3/34$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -68.534 ± 0.646 $\chi^2/\text{NDF}: 4927.4/37$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

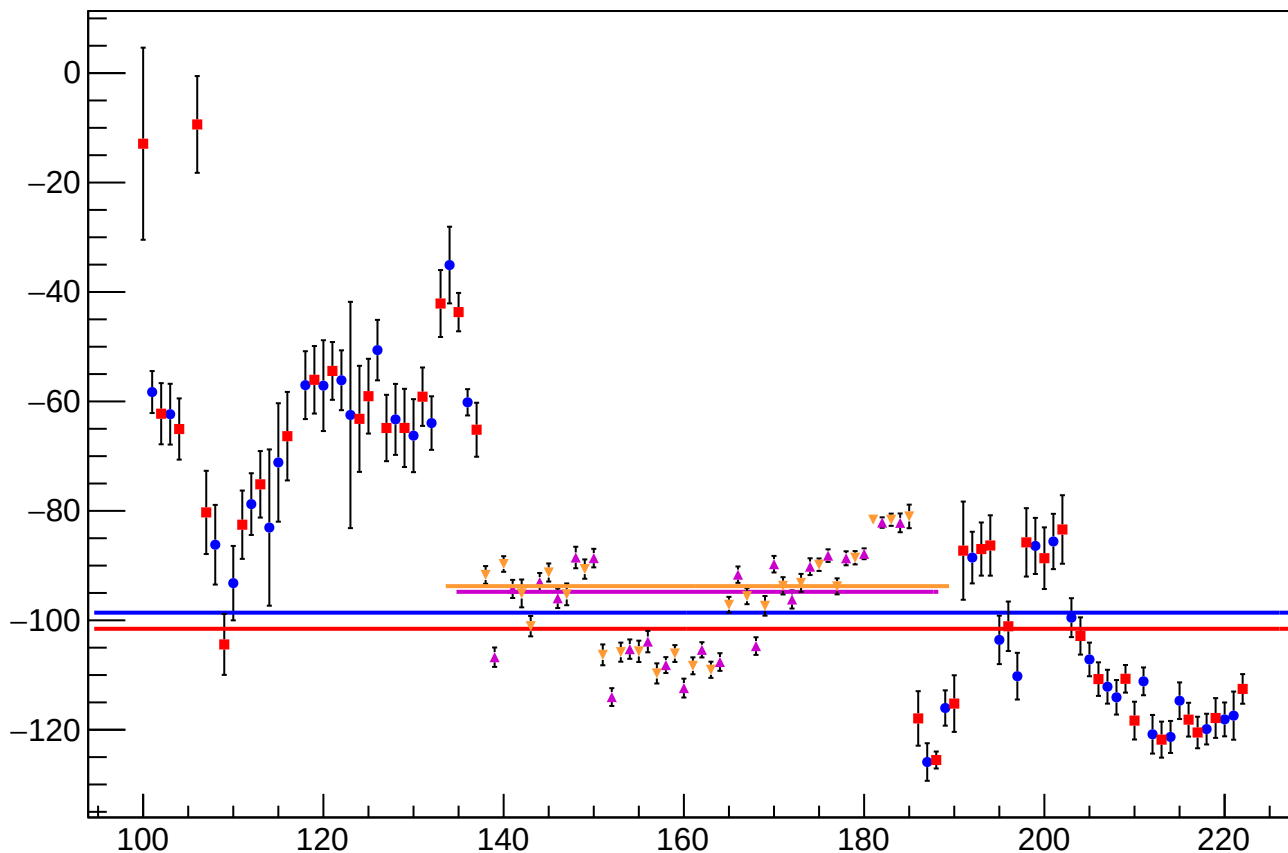
Right: -67.485 ± 0.452 $\chi^2/\text{NDF}: 9522.8/72$

In: -38.535 ± 0.233 $\chi^2/\text{NDF}: 8299.3/57$

Out: -38.480 ± 0.226 $\chi^2/\text{NDF}: 8085.5/62$

All: -38.507 ± 0.162 $\chi^2/\text{NDF}: 16384.8/120$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -98.601 ± 0.690 $\chi^2/\text{NDF}: 1258.6/34$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -101.549 ± 0.674 $\chi^2/\text{NDF}: 1505.5/37$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

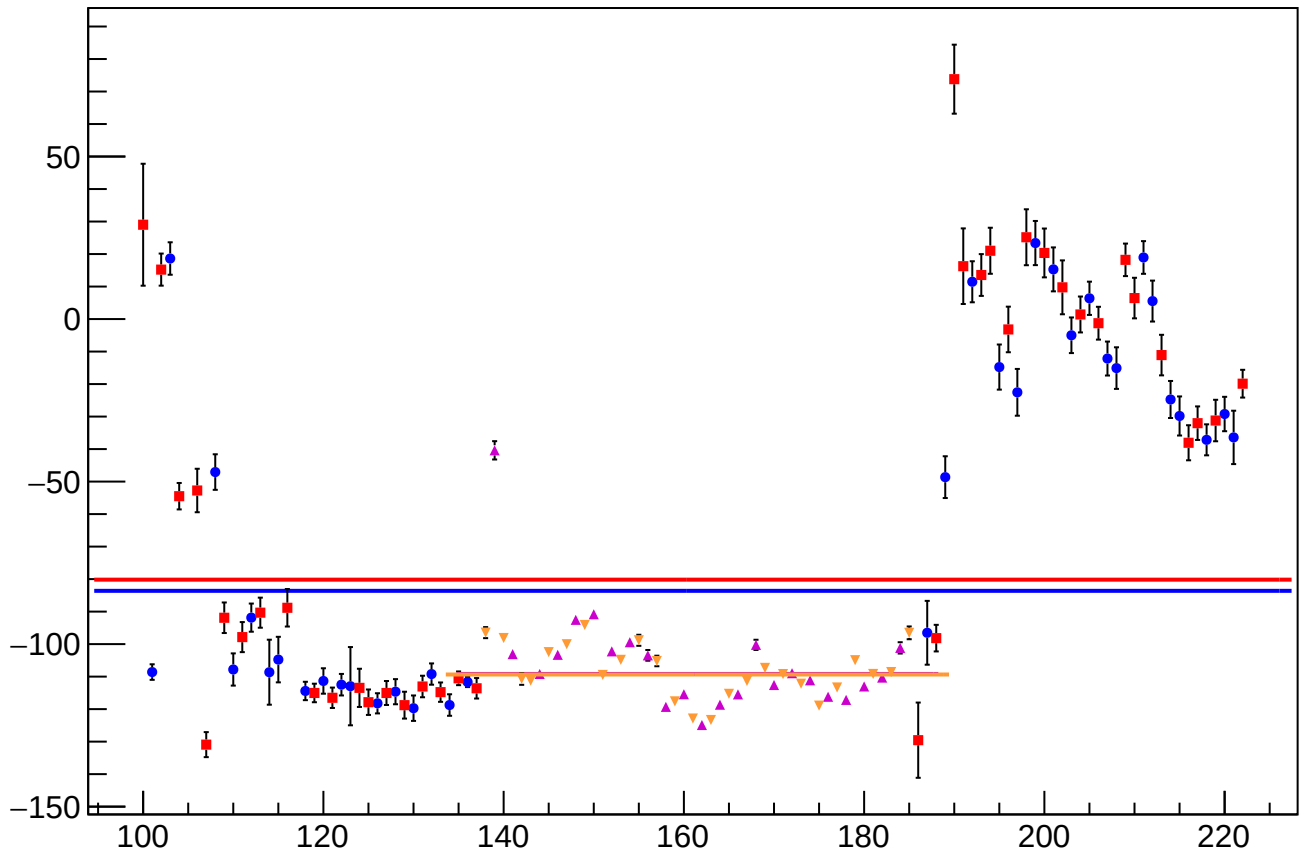
Right: -100.109 ± 0.482 $\chi^2/\text{NDF}: 2773.5/72$

In: -95.430 ± 0.282 $\chi^2/\text{NDF}: 2258.7/57$

Out: -95.054 ± 0.275 $\chi^2/\text{NDF}: 2499.9/62$

All: -95.238 ± 0.197 $\chi^2/\text{NDF}: 4759.5/120$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -83.609 ± 0.709 $\chi^2/\text{NDF}: 4383.0/34$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -80.170 ± 0.735 $\chi^2/\text{NDF}: 4675.3/37$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

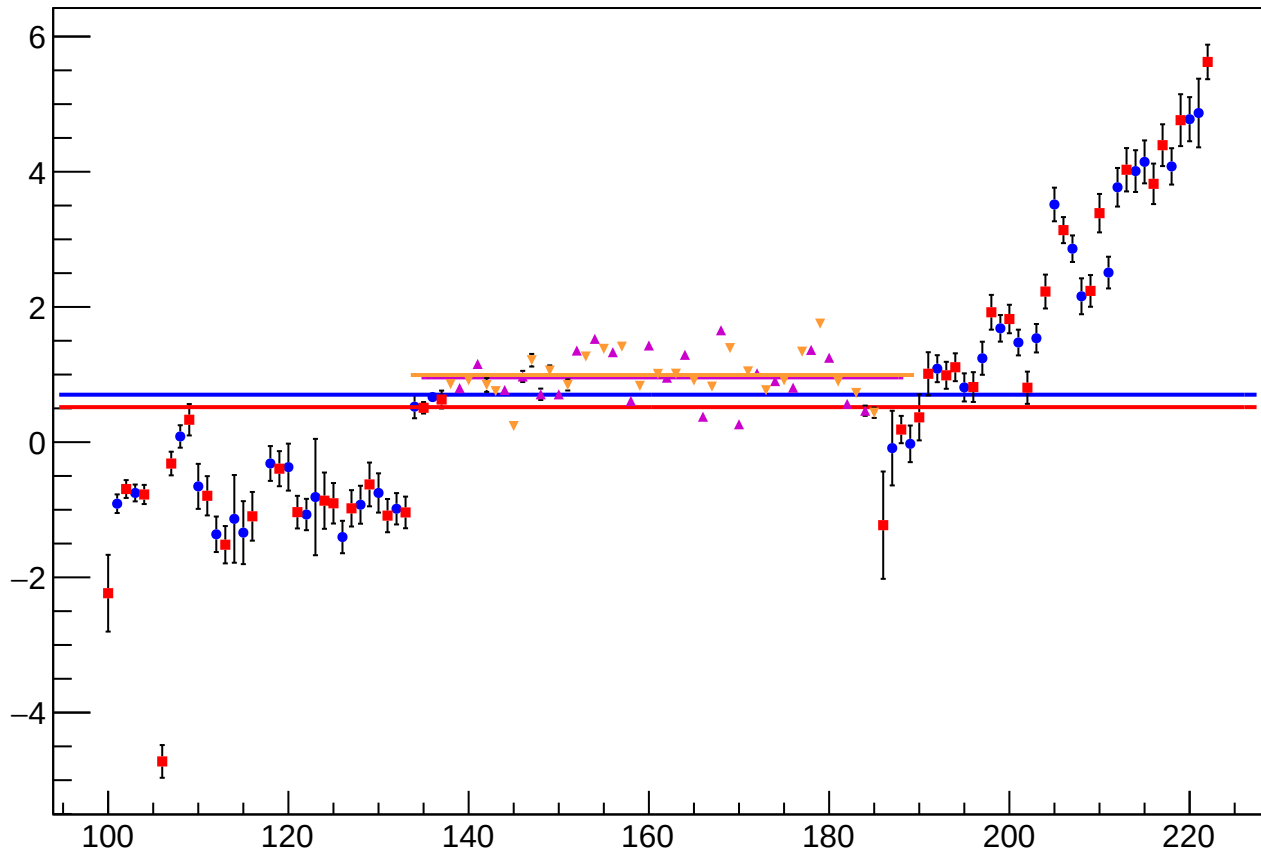
Right: -81.950 ± 0.510 $\chi^2/\text{NDF}: 9069.6/72$

In: -105.739 ± 0.260 $\chi^2/\text{NDF}: 7008.8/57$

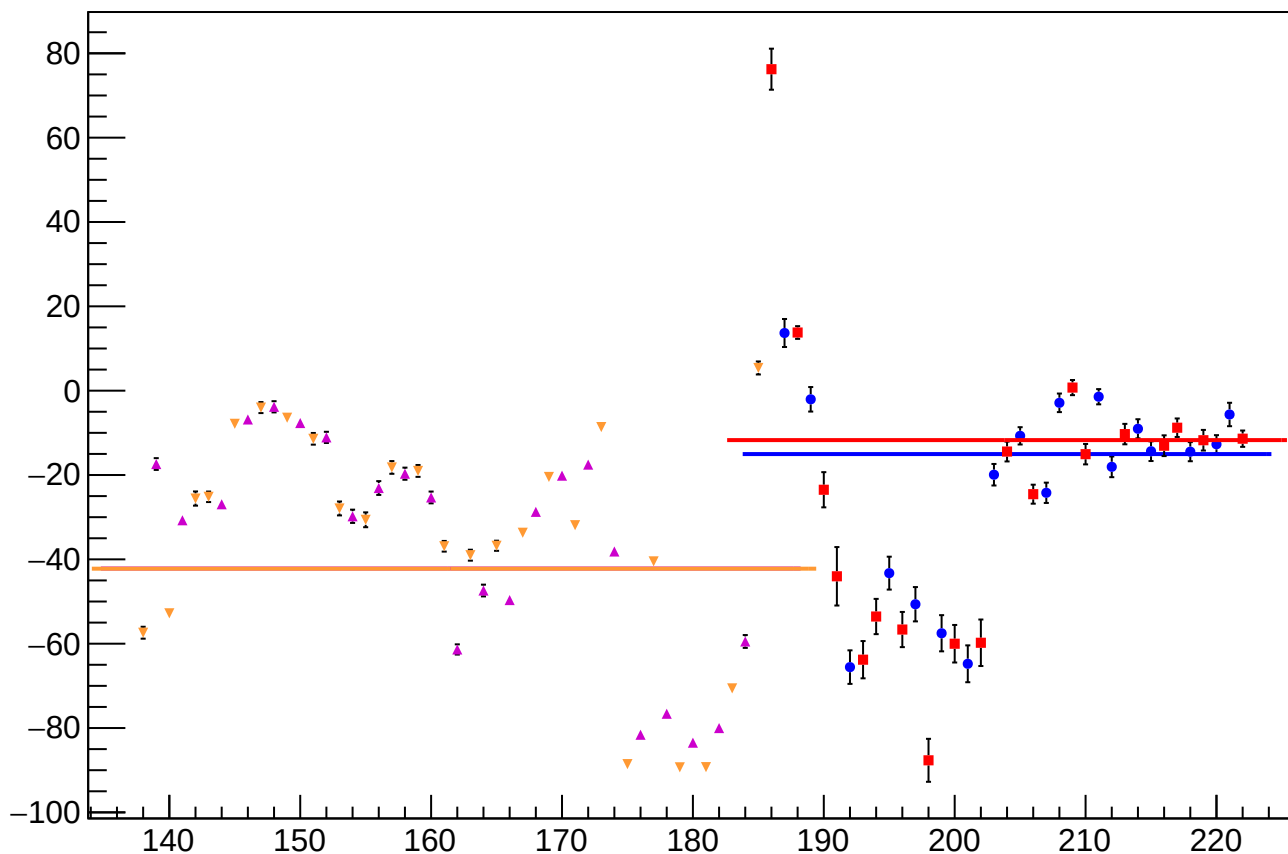
Out: -105.852 ± 0.254 $\chi^2/\text{NDF}: 6890.2/62$

All: -105.797 ± 0.182 $\chi^2/\text{NDF}: 13899.0/120$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.033 ± 0.613 χ^2/NDF : 743.4/17

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -11.722 ± 0.610 χ^2/NDF : 1499.4/18

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

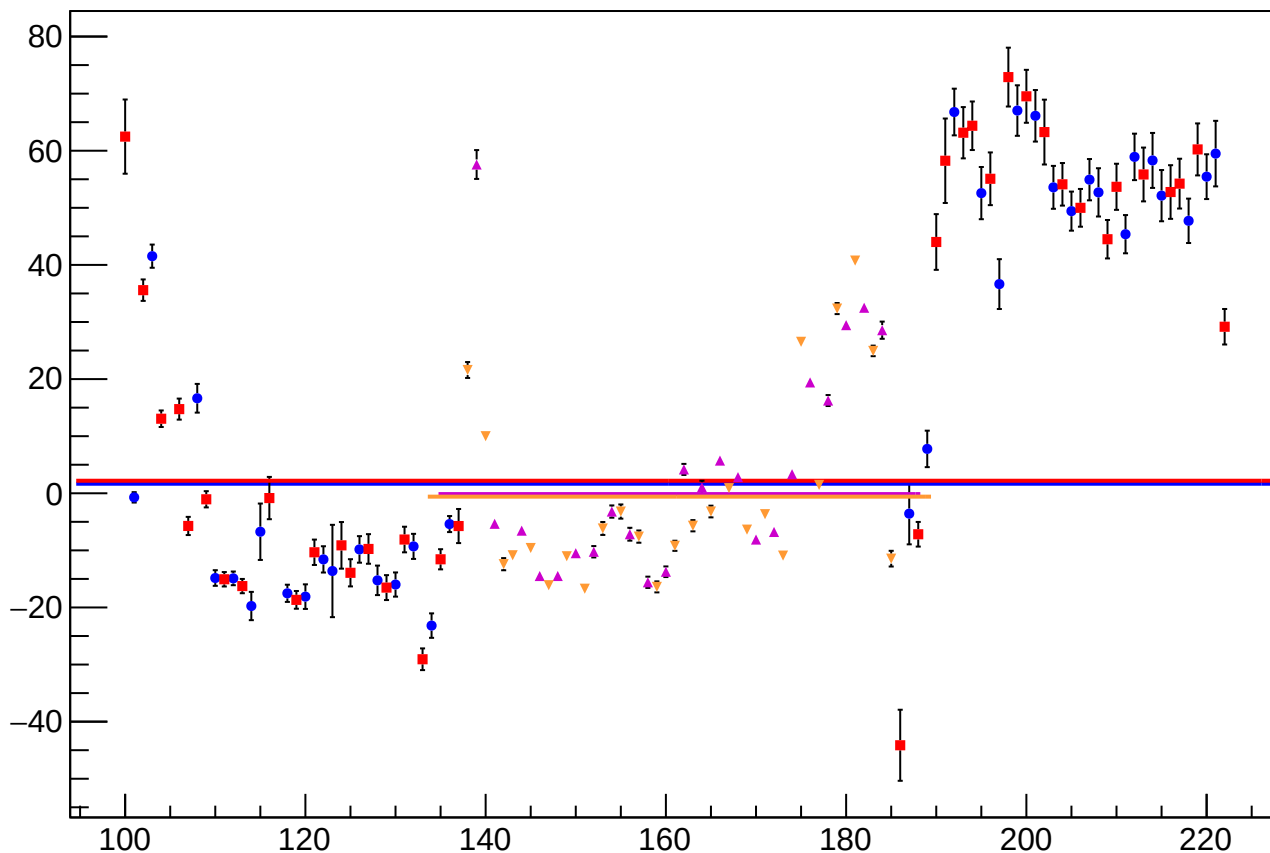
Right: -13.371 ± 0.432 χ^2/NDF : 2257.5/36

In: -38.898 ± 0.213 χ^2/NDF : 17045.1/40

Out: -38.649 ± 0.209 χ^2/NDF : 22013.1/43

All: -38.771 ± 0.149 χ^2/NDF : 39058.8/84

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.674 ± 0.393 $\chi^2/\text{NDF}: 4125.2/34$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 2.197 ± 0.389 $\chi^2/\text{NDF}: 4256.8/37$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

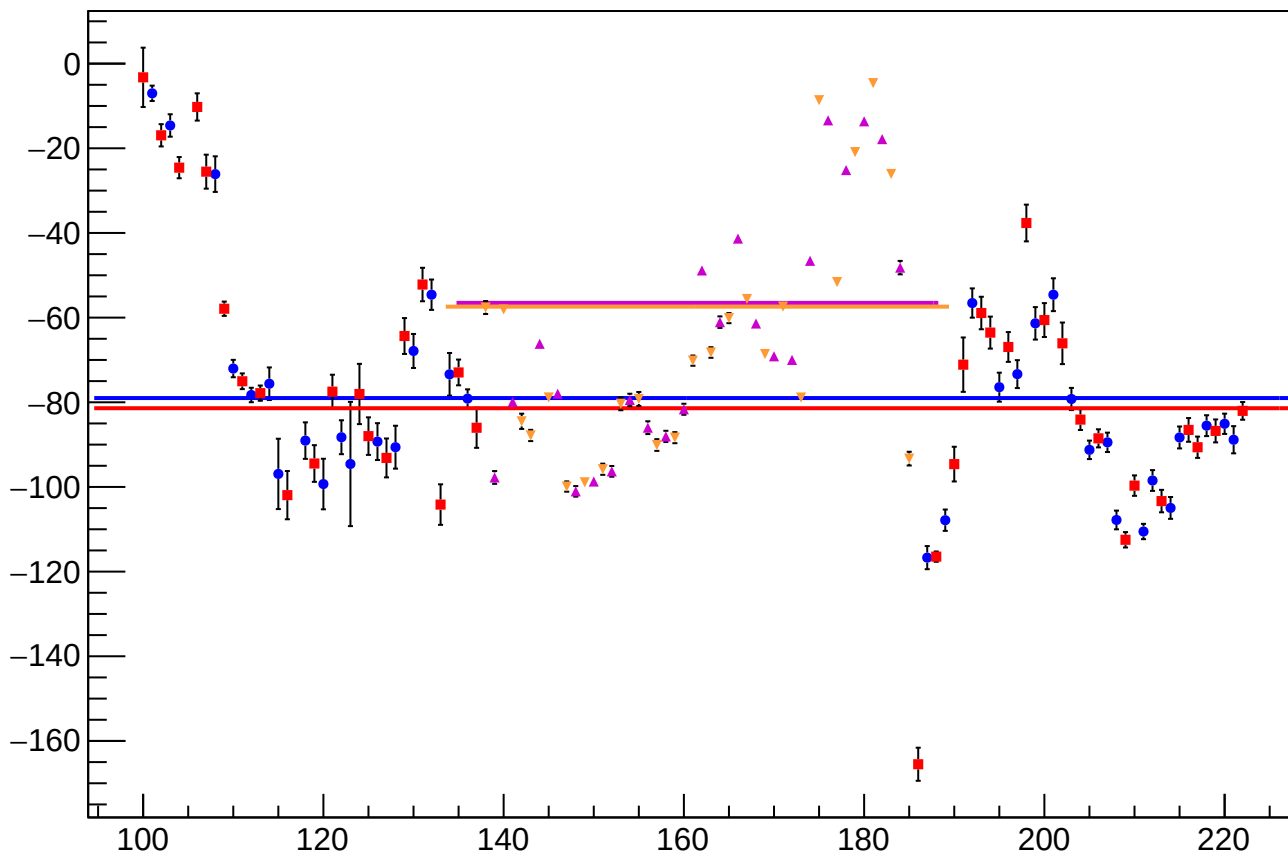
Right: 1.938 ± 0.277 $\chi^2/\text{NDF}: 8382.9/72$

In: 0.171 ± 0.163 $\chi^2/\text{NDF}: 11005.3/57$

Out: -0.125 ± 0.159 $\chi^2/\text{NDF}: 13050.5/62$

All: 0.020 ± 0.114 $\chi^2/\text{NDF}: 24057.5/120$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -79.001 ± 0.475 $\chi^2/\text{NDF}: 3579.3/34$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$

Right Out: -81.405 ± 0.454 $\chi^2/\text{NDF}: 4232.0/37$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$

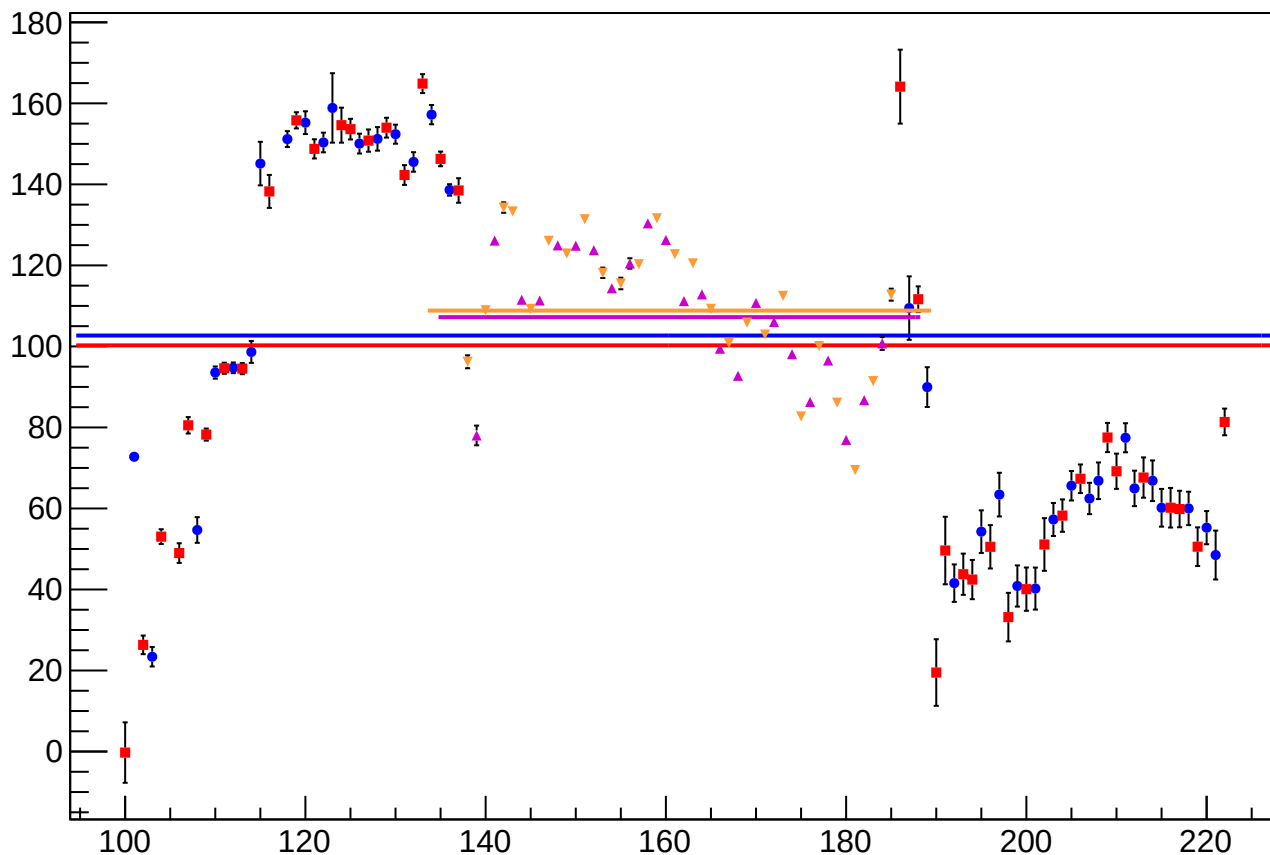
Right: -80.258 ± 0.328 $\chi^2/\text{NDF}: 7824.7/72$

In: -60.703 ± 0.205 $\chi^2/\text{NDF}: 21756.5/57$

Out: -62.091 ± 0.200 $\chi^2/\text{NDF}: 25088.4/62$

All: -61.412 ± 0.143 $\chi^2/\text{NDF}: 46868.4/120$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 102.688 $\pm$ 0.446 χ^2 /NDF: 7753.1/34

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 100.261 $\pm$ 0.444 χ^2 /NDF: 8721.8/37

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

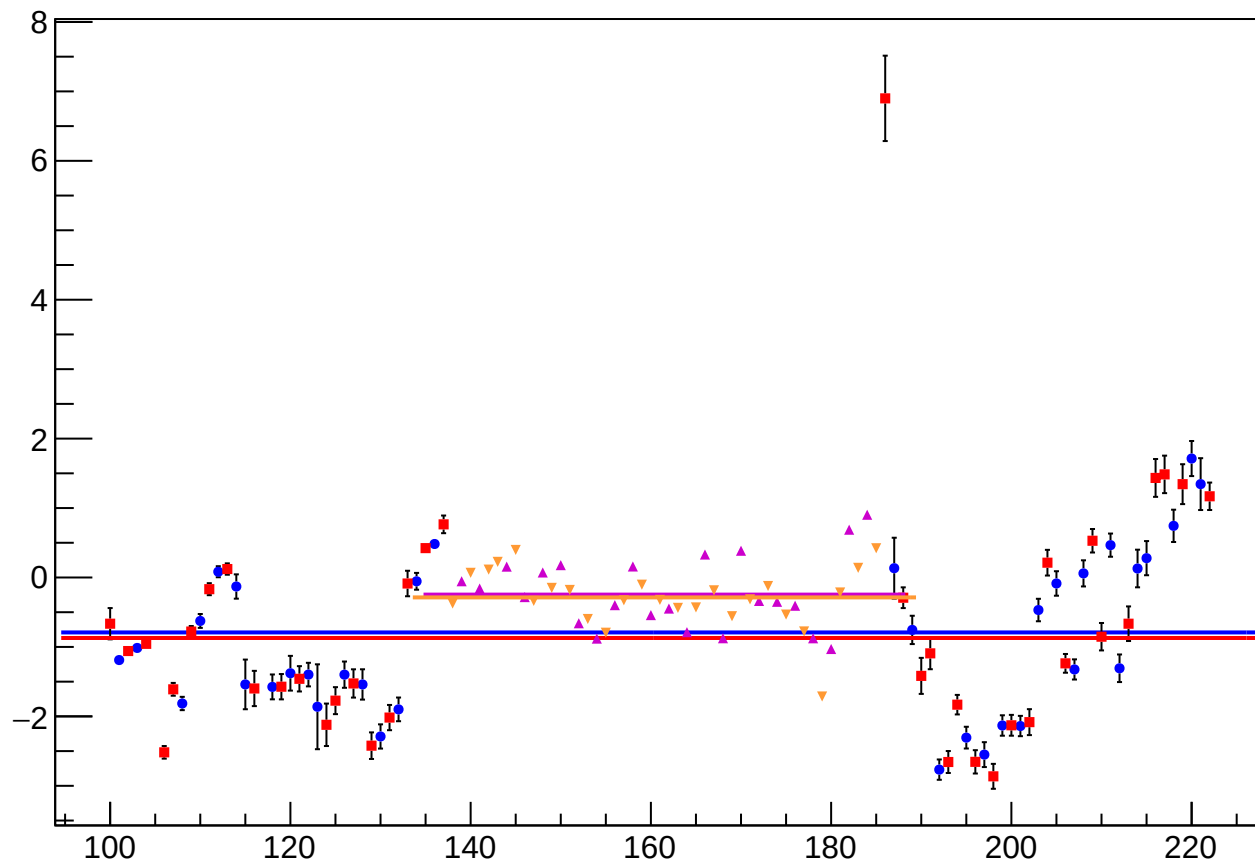
Right: 101.468 $\pm$ 0.315 χ^2 /NDF: 16489.8/72

In: 106.450 $\pm$ 0.184 χ^2 /NDF: 13404.2/57

Out: 107.429 $\pm$ 0.180 χ^2 /NDF: 16434.6/62

All: 106.950 $\pm$ 0.129 χ^2 /NDF: 29853.3/120

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.791 ± 0.022 χ^2/NDF : 1870.8/34

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.871 ± 0.021 χ^2/NDF : 2435.3/37

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

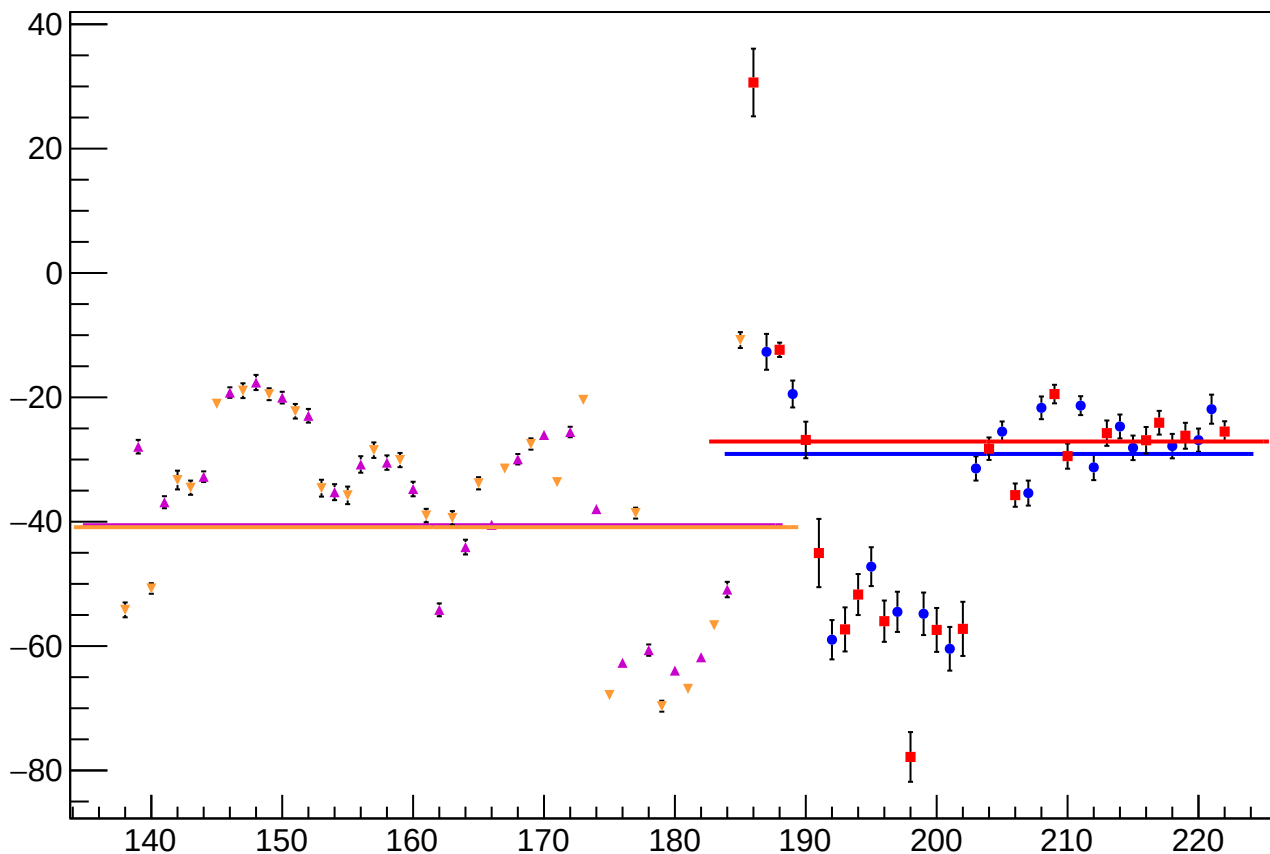
Right: -0.833 ± 0.015 χ^2/NDF : 4312.8/72

In: -0.327 ± 0.009 χ^2/NDF : 5173.4/57

Out: -0.377 ± 0.008 χ^2/NDF : 5128.8/62

All: -0.353 ± 0.006 χ^2/NDF : 10319.9/120

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected

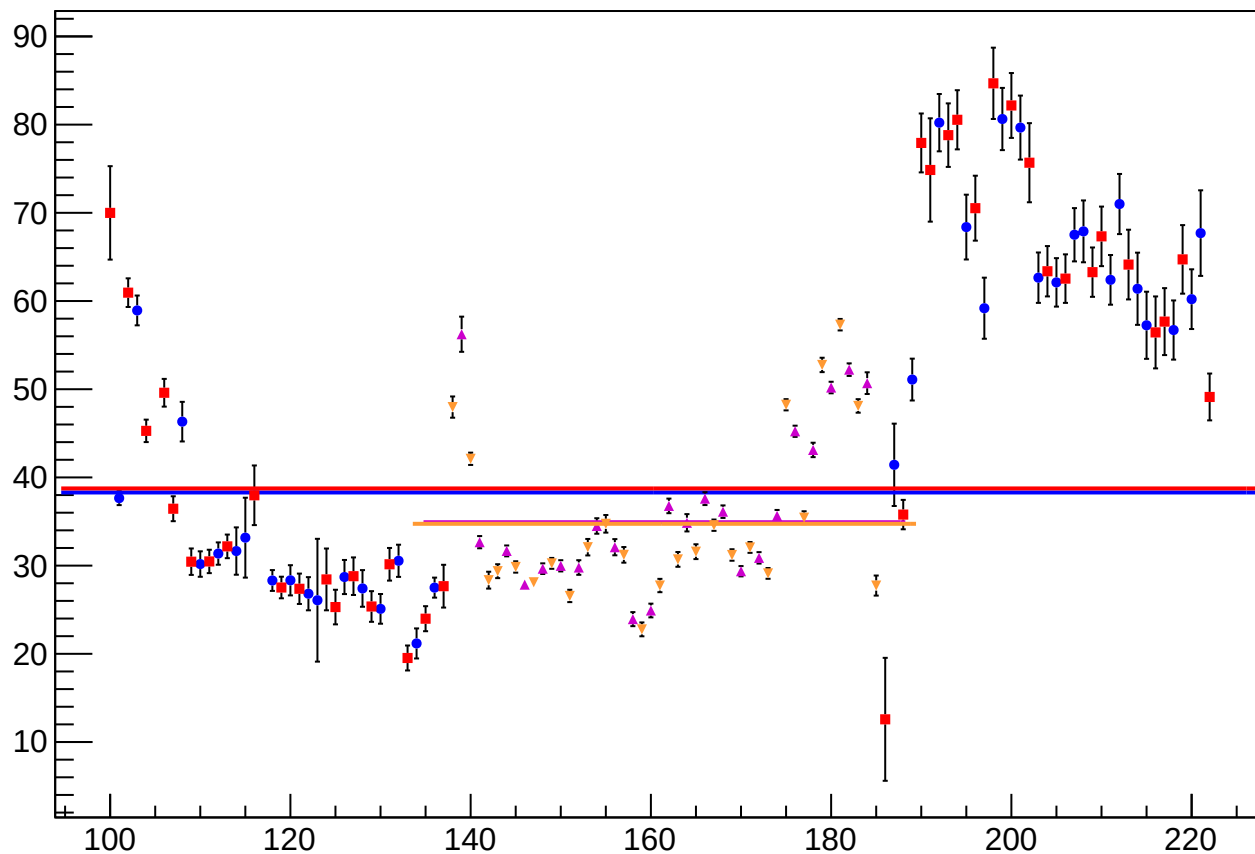


Right In: -29.103 ± 0.506 $\chi^2/\text{NDF}: 449.4/17$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -27.102 ± 0.500 $\chi^2/\text{NDF}: 826.2/18$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -28.090 ± 0.356 $\chi^2/\text{NDF}: 1283.5/36$
 In: -39.152 ± 0.178 $\chi^2/\text{NDF}: 7854.1/40$
 Out: -39.201 ± 0.174 $\chi^2/\text{NDF}: 10616.9/43$

All: -39.177 ± 0.125 $\chi^2/\text{NDF}: 18471.0/84$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.293+/-0.339 χ^2 /NDF: 1916.8/34

Left Out: 34.741+/-0.147 χ^2 /NDF:3693.2/24

Right Out: 38.751+/-0.338 χ^2 /NDF: 2316.7/37

Left In: 34.922+/-0.152 χ^2 /NDF:2672.9/22

Left: 34.829+/-0.106 χ^2 /NDF: 6366.8/47

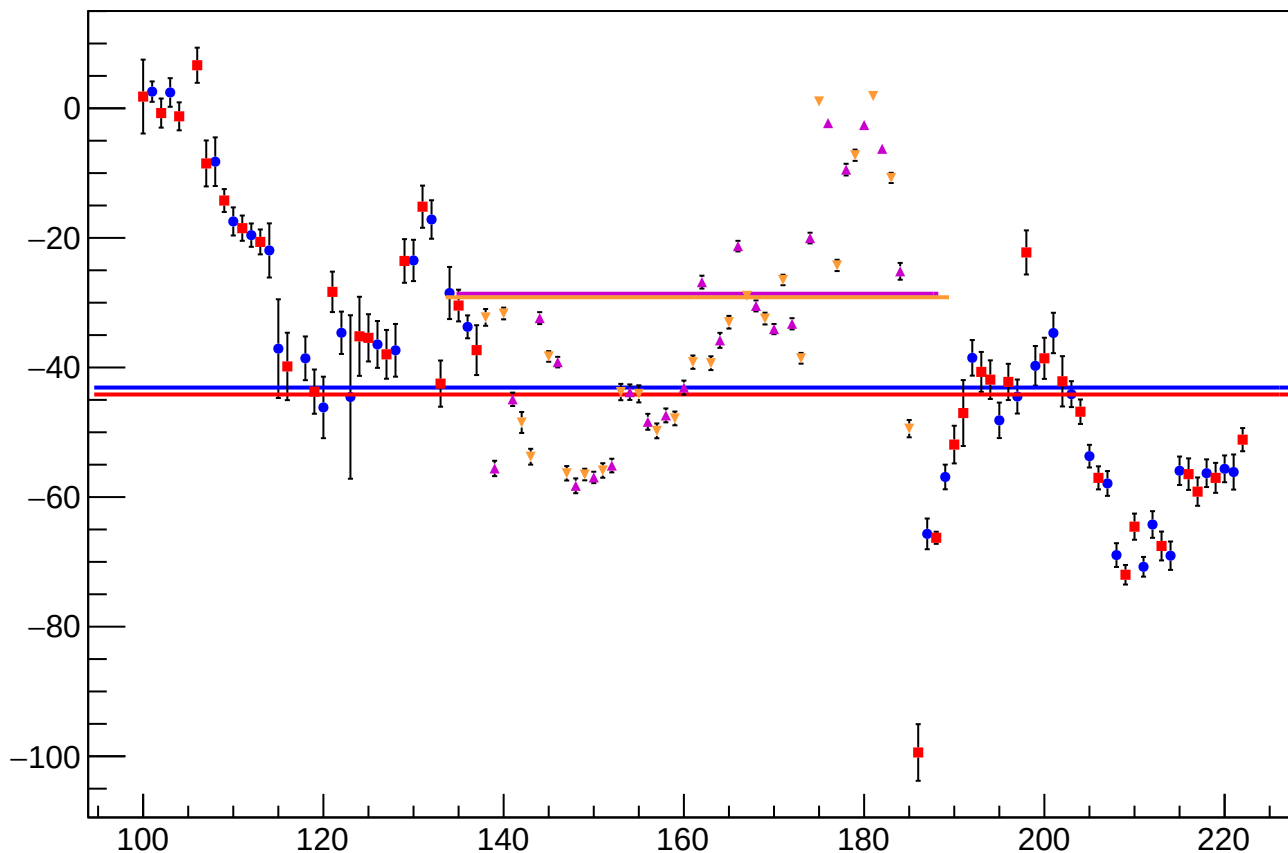
Right: 38.523+/-0.239 χ^2 /NDF: 4234.4/72

In: 35.484+/-0.138 χ^2 /NDF:4672.1/57

Out: 35.382+/-0.135 χ^2 /NDF:6128.1/62

All: 35.432+/-0.097 χ^2 /NDF: 10800.5/120

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.096 ± 0.404 χ^2/NDF : 3021.0/34

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -44.168 ± 0.386 χ^2/NDF : 3584.5/37

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

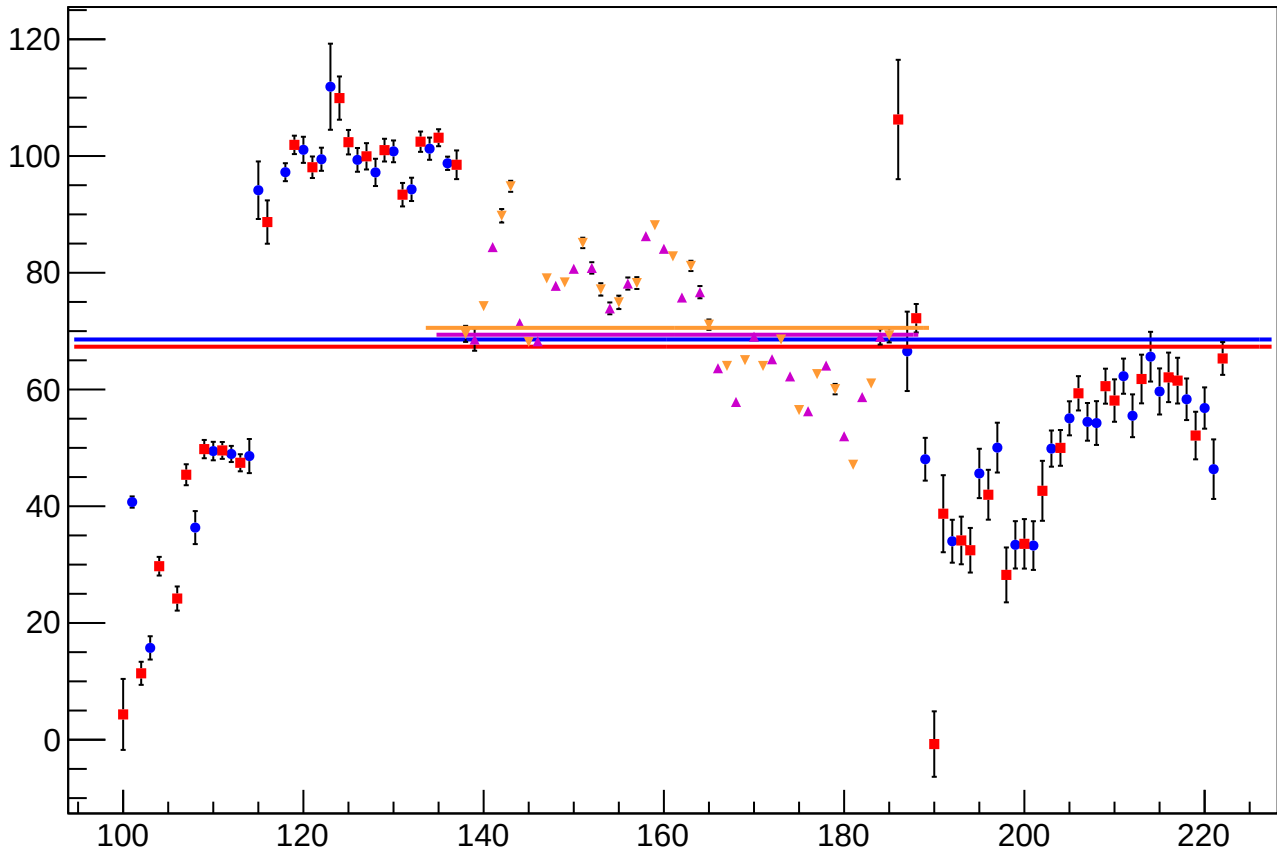
Right: -43.657 ± 0.279 χ^2/NDF : 6609.2/72

In: -31.236 ± 0.172 χ^2/NDF : 13114.8/57

Out: -32.018 ± 0.168 χ^2/NDF : 14935.4/62

All: -31.635 ± 0.120 χ^2/NDF : 28060.8/120

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.571 ± 0.386 $\chi^2/\text{NDF}: 5224.7/34$

Left Out: 70.563 ± 0.166 $\chi^2/\text{NDF}: 4589.1/24$

Right Out: 67.334 ± 0.388 $\chi^2/\text{NDF}: 6153.9/37$

Left In: 69.387 ± 0.170 $\chi^2/\text{NDF}: 3321.8/22$

Left: 69.989 ± 0.119 $\chi^2/\text{NDF}: 7935.4/47$

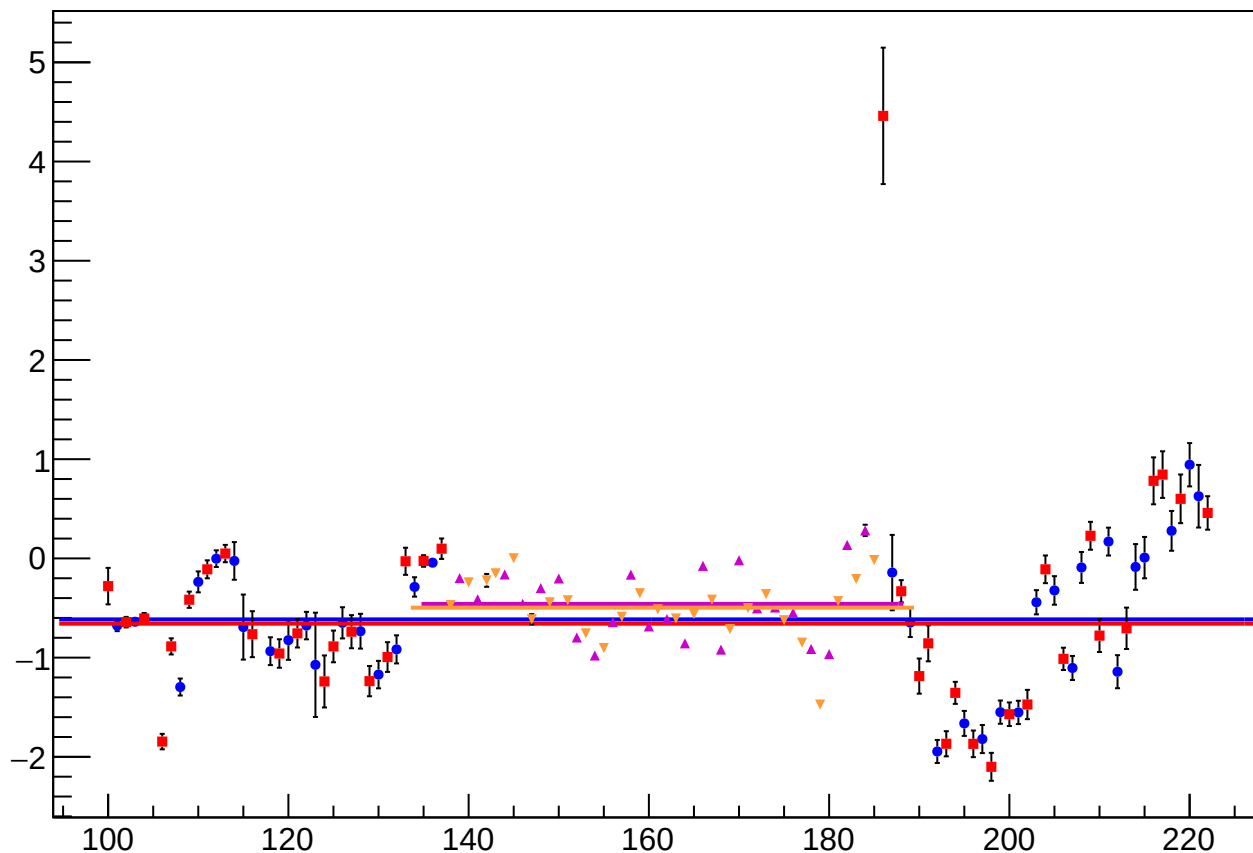
Right: 67.956 ± 0.274 $\chi^2/\text{NDF}: 11383.7/72$

In: 69.254 ± 0.156 $\chi^2/\text{NDF}: 8550.2/57$

Out: 70.062 ± 0.153 $\chi^2/\text{NDF}: 10801.6/62$

All: 69.666 ± 0.109 $\chi^2/\text{NDF}: 19365.5/120$

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected

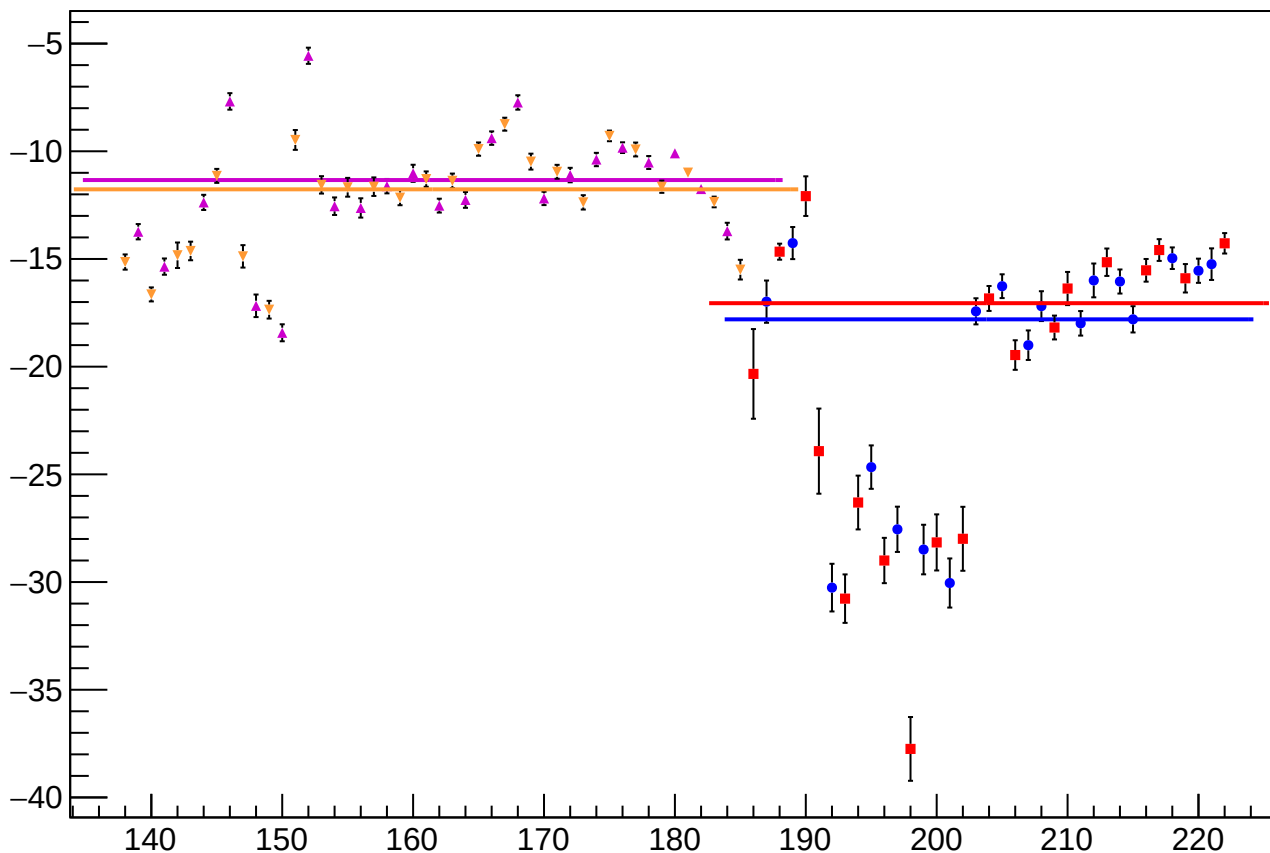


Right In: -0.615 ± 0.019 χ^2/NDF : 906.0/34
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.658 ± 0.018 χ^2/NDF : 1274.3/37
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.637 ± 0.013 χ^2/NDF : 2183.0/72
 In: -0.481 ± 0.007 χ^2/NDF : 2922.6/57
 Out: -0.521 ± 0.007 χ^2/NDF : 2790.2/62

All: -0.501 ± 0.005 χ^2/NDF : 5728.2/120

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.803 ± 0.165 χ^2/NDF : 571.5/17

Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24

Right Out: -17.053 ± 0.159 χ^2/NDF : 836.0/18

Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47

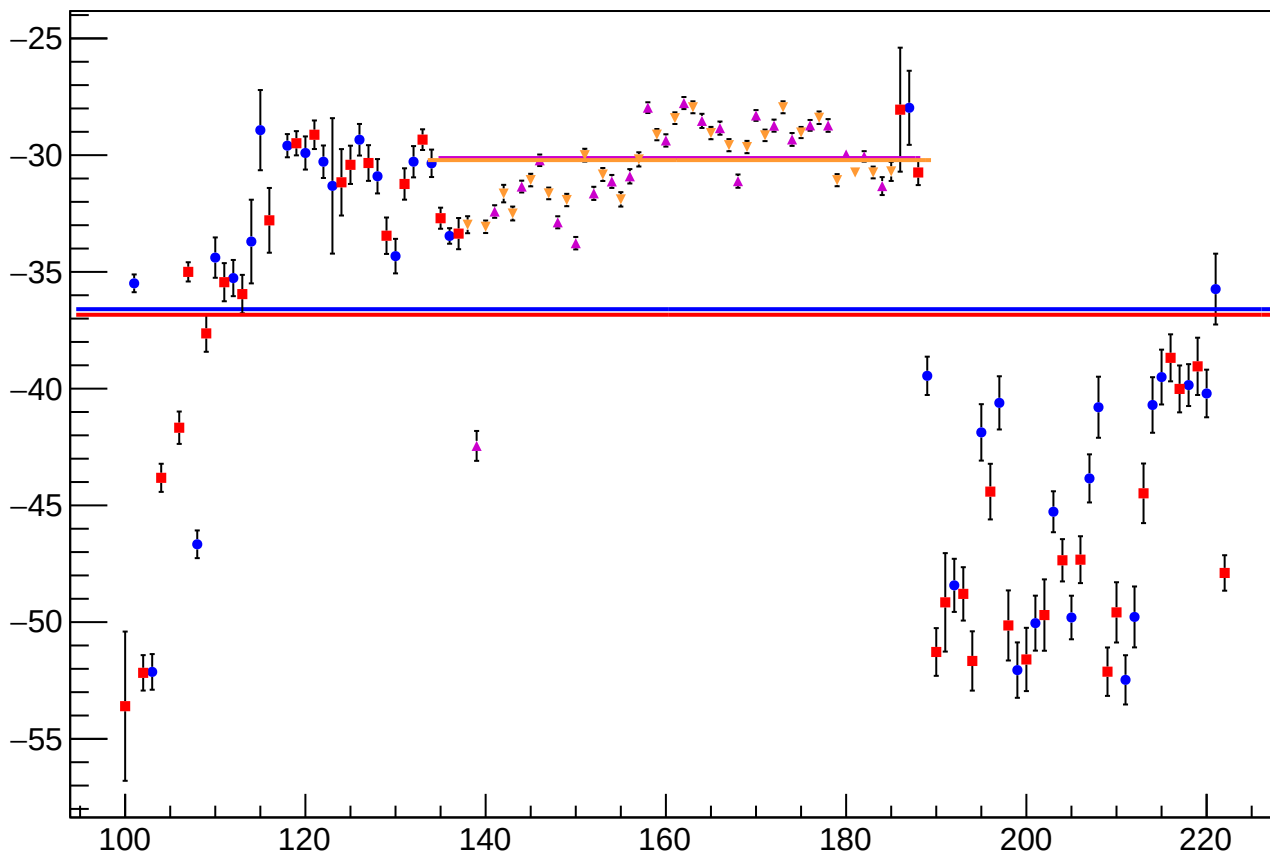
Right: -17.415 ± 0.114 χ^2/NDF : 1418.2/36

In: -12.279 ± 0.063 χ^2/NDF : 3158.7/40

Out: -12.557 ± 0.061 χ^2/NDF : 2796.1/43

All: -12.421 ± 0.044 χ^2/NDF : 5964.8/84

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.596 ± 0.131 χ^2/NDF : 2801.9/34

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -36.835 ± 0.128 χ^2/NDF : 3396.8/37

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

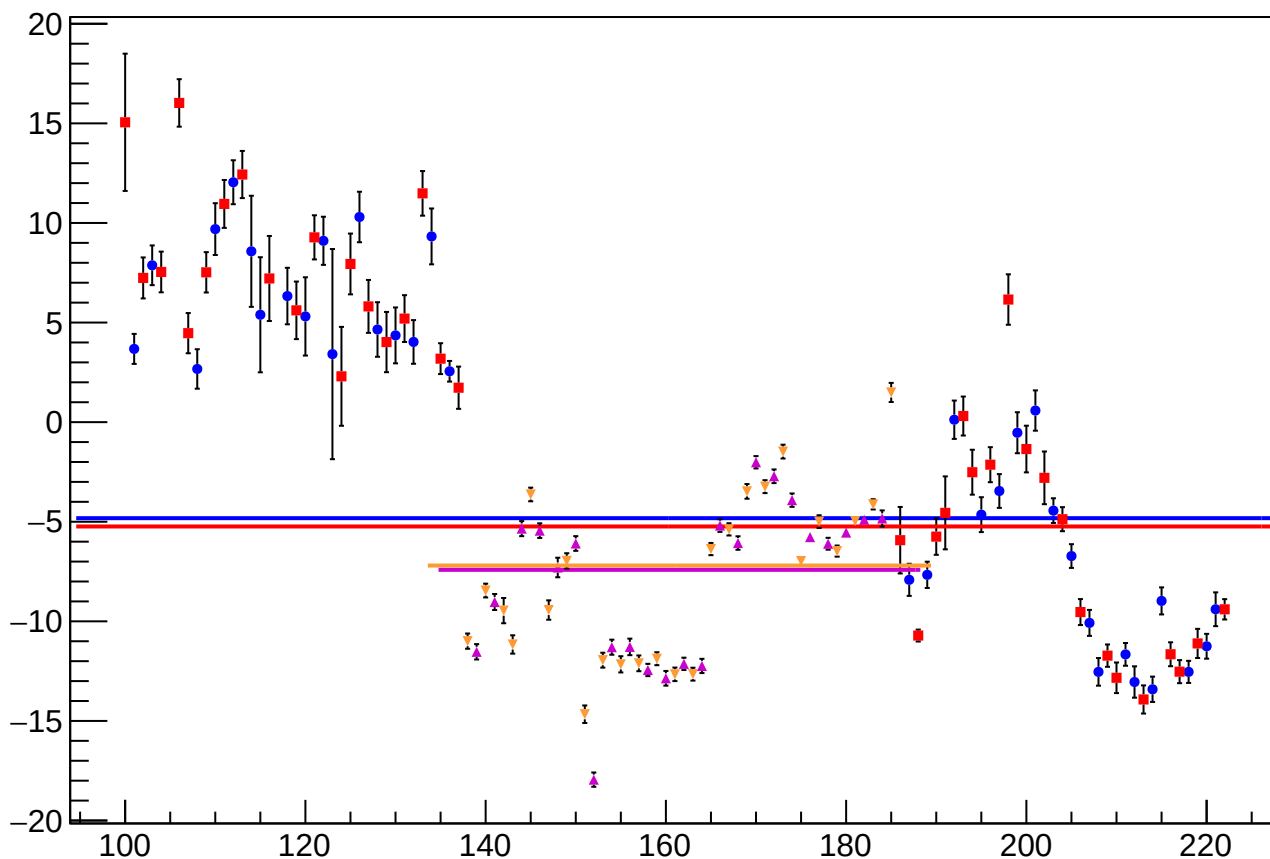
Right: -36.718 ± 0.092 χ^2/NDF : 6200.5/72

In: -31.111 ± 0.051 χ^2/NDF : 6100.9/57

Out: -31.206 ± 0.050 χ^2/NDF : 6399.4/62

All: -31.159 ± 0.036 χ^2/NDF : 12502.1/120

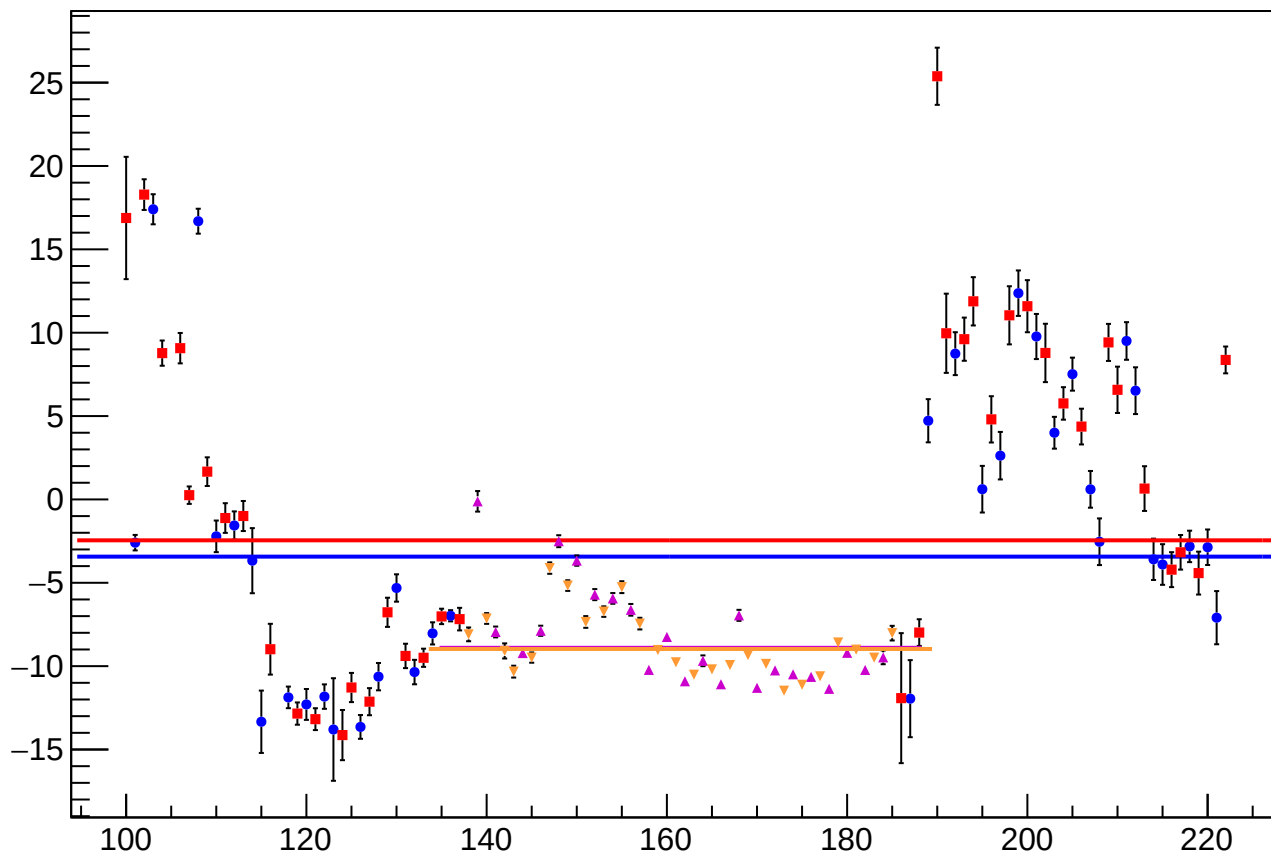
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.821 ± 0.142 $\chi^2/\text{NDF}: 2675.4/34$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -5.237 ± 0.135 $\chi^2/\text{NDF}: 3536.6/37$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -5.039 ± 0.098 $\chi^2/\text{NDF}: 6216.4/72$
 In: -6.933 ± 0.061 $\chi^2/\text{NDF}: 6070.3/57$
 Out: -6.813 ± 0.060 $\chi^2/\text{NDF}: 6742.8/62$
 All: -6.872 ± 0.043 $\chi^2/\text{NDF}: 12815.1/120$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.431 ± 0.147 χ^2/NDF : 3019.5/34

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.453 ± 0.148 χ^2/NDF : 3427.7/37

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

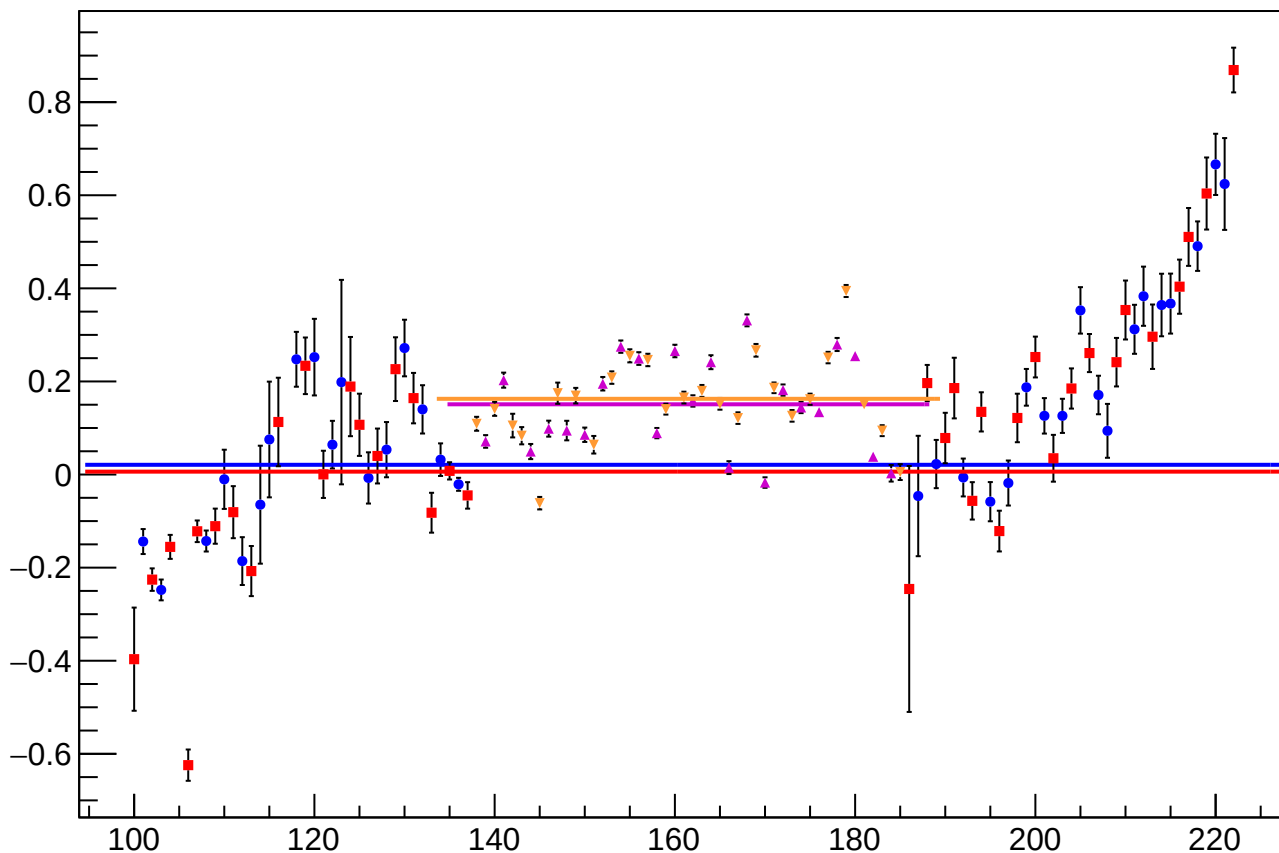
Right: -2.943 ± 0.104 χ^2/NDF : 6469.2/72

In: -8.084 ± 0.057 χ^2/NDF : 5727.3/57

Out: -8.041 ± 0.056 χ^2/NDF : 5979.6/62

All: -8.062 ± 0.040 χ^2/NDF : 11707.2/120

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.021 $\pm$ 0.007 χ^2 /NDF: 735.5/34

Left Out: 0.163 $\pm$ 0.003 χ^2 /NDF:1018.1/24

Right Out: 0.006 $\pm$ 0.007 χ^2 /NDF: 1311.5/37

Left In: 0.151 $\pm$ 0.003 χ^2 /NDF:1286.5/22

Left: 0.157 $\pm$ 0.002 χ^2 /NDF: 2313.9/47

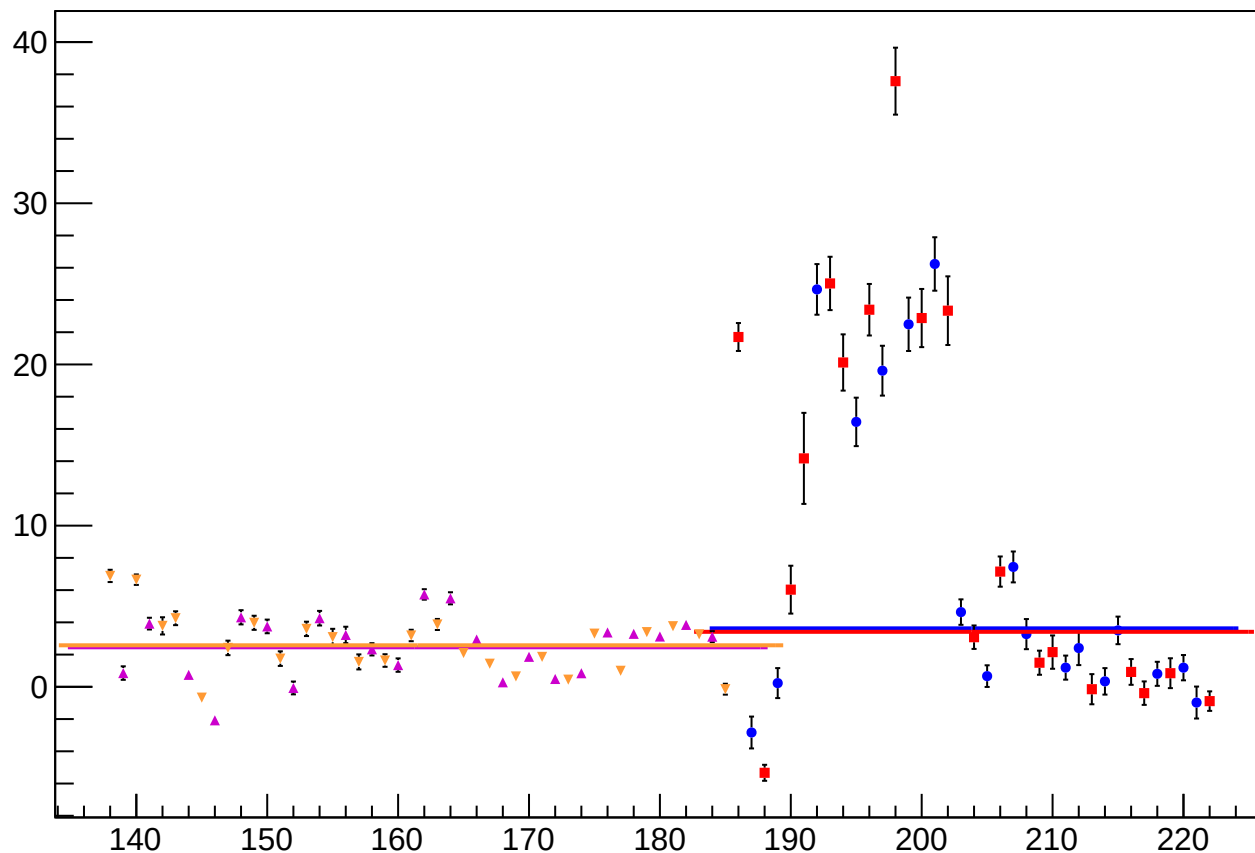
Right: 0.014 $\pm$ 0.005 χ^2 /NDF: 2049.3/72

In: 0.133 $\pm$ 0.003 χ^2 /NDF:2331.3/57

Out: 0.141 $\pm$ 0.003 χ^2 /NDF:2781.1/62

All: 0.137 $\pm$ 0.002 χ^2 /NDF: 5118.0/120

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.627 ± 0.222 χ^2/NDF : 841.0/17

Left Out: 2.577 ± 0.058 χ^2/NDF : 867.5/24

Right Out: 3.413 ± 0.213 χ^2/NDF : 1800.3/18

Left In: 2.452 ± 0.059 χ^2/NDF : 871.3/22

Left: 2.516 ± 0.042 χ^2/NDF : 1741.0/47

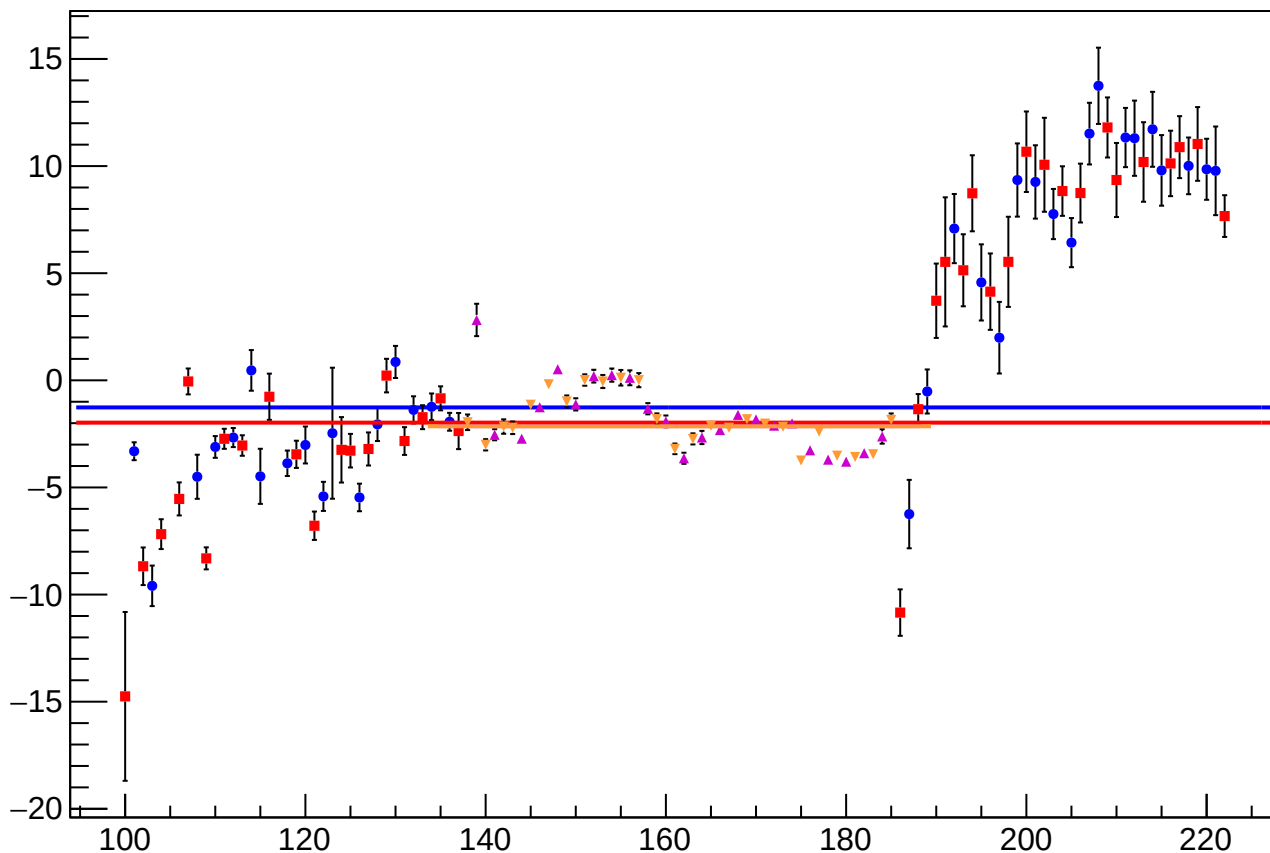
Right: 3.516 ± 0.154 χ^2/NDF : 2641.7/36

In: 2.530 ± 0.057 χ^2/NDF : 1738.3/40

Out: 2.635 ± 0.056 χ^2/NDF : 2682.1/43

All: 2.584 ± 0.040 χ^2/NDF : 4422.1/84

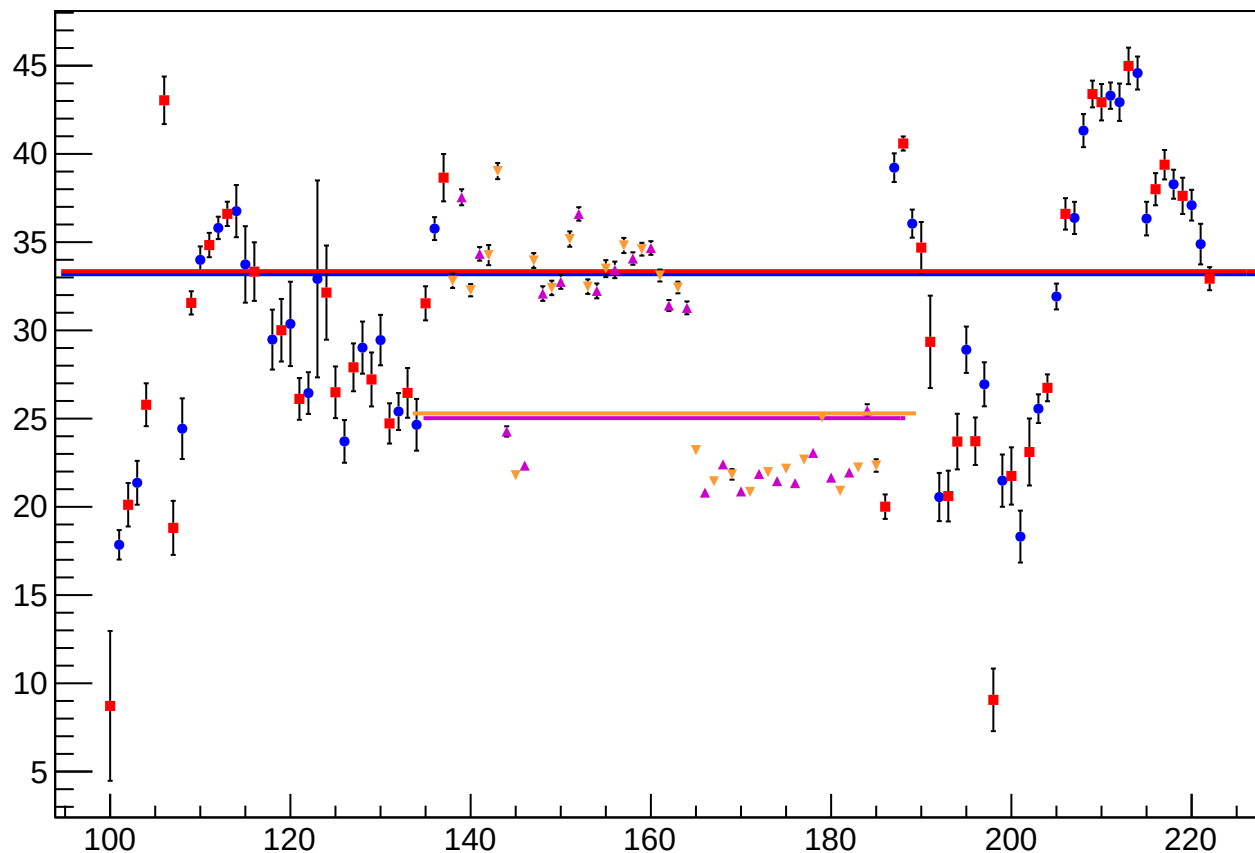
reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.265 ± 0.142 $\chi^2/\text{NDF}: 1037.9/34$
 Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$
 Right Out: -1.975 ± 0.139 $\chi^2/\text{NDF}: 1261.8/37$
 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: -1.626 ± 0.099 $\chi^2/\text{NDF}: 2312.4/72$
 In: -2.045 ± 0.046 $\chi^2/\text{NDF}: 1762.9/57$
 Out: -2.128 ± 0.045 $\chi^2/\text{NDF}: 1836.5/62$
 All: -2.087 ± 0.032 $\chi^2/\text{NDF}: 3601.1/120$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.182 $\pm$ 0.172 χ^2 /NDF: 1718.2/34

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24

Right Out: 33.355 $\pm$ 0.161 χ^2 /NDF: 2268.6/37

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

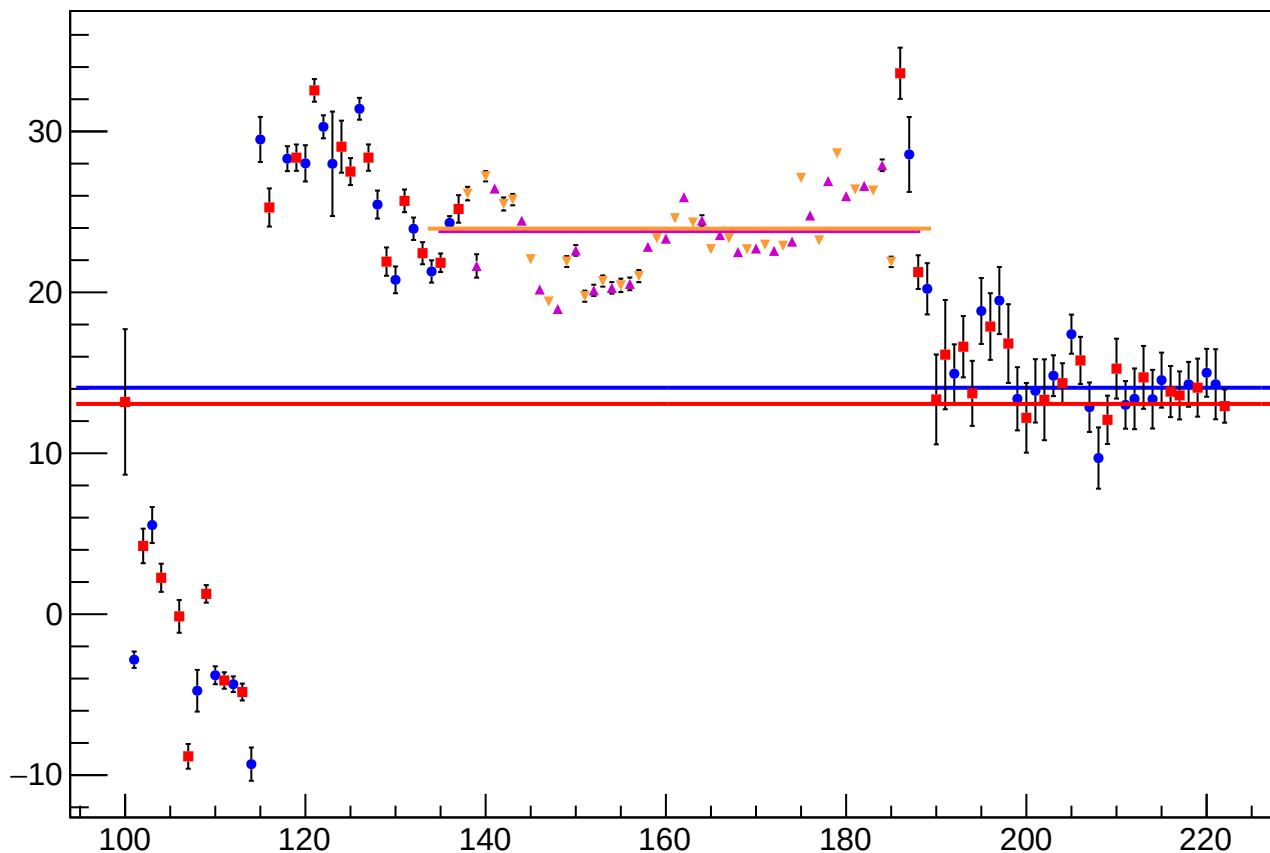
Right: 33.274 $\pm$ 0.117 χ^2 /NDF: 3987.3/72

In: 25.903 $\pm$ 0.056 χ^2 /NDF: 11343.0/57

Out: 26.247 $\pm$ 0.055 χ^2 /NDF: 12754.6/62

All: 26.078 $\pm$ 0.039 χ^2 /NDF: 24116.6/120

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.072 $\pm$ 0.158 χ^2 /NDF: 7358.0/34

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.068 $\pm$ 0.158 χ^2 /NDF: 7215.5/37

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

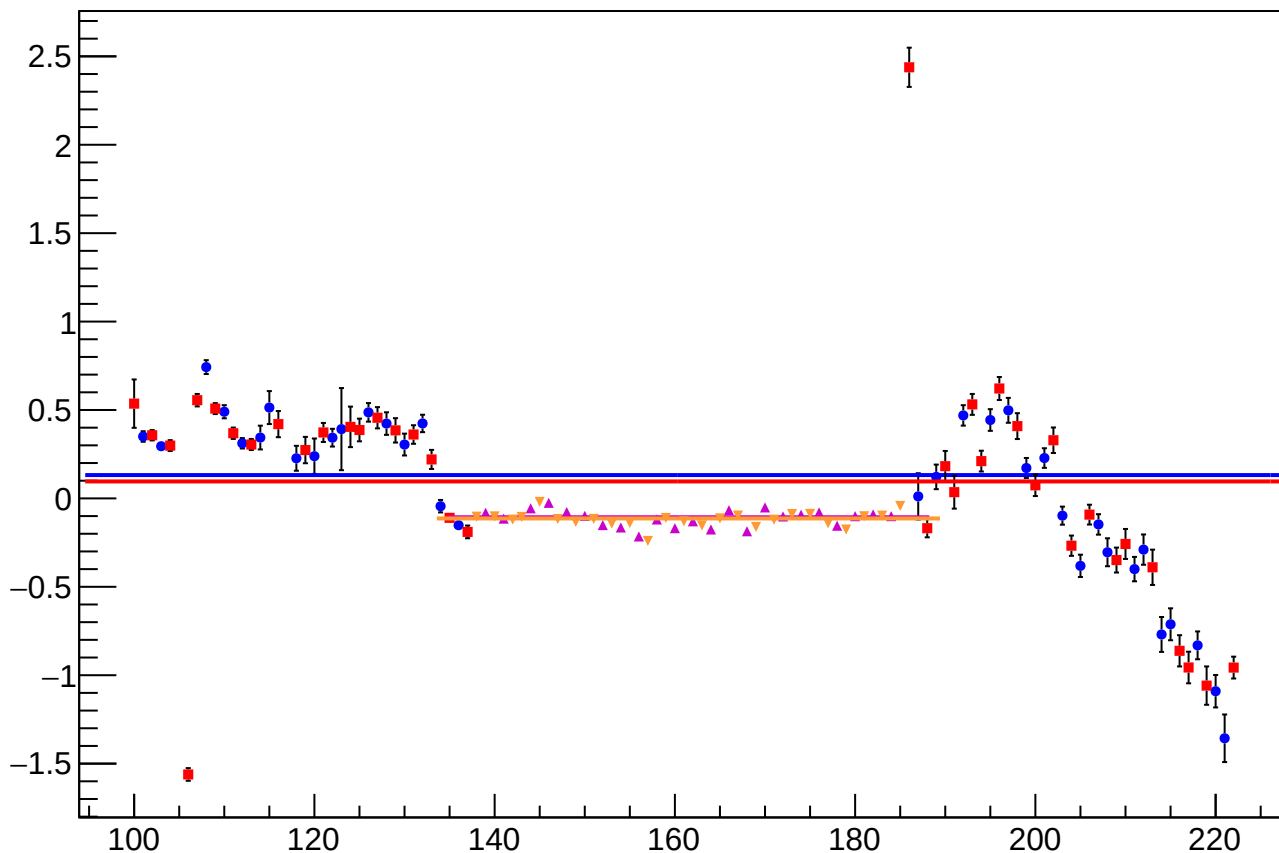
Right: 13.568 $\pm$ 0.112 χ^2 /NDF: 14593.7/72

In: 22.791 $\pm$ 0.051 χ^2 /NDF:12498.8/57

Out: 22.855 $\pm$ 0.050 χ^2 /NDF:13407.9/62

All: 22.823 $\pm$ 0.036 χ^2 /NDF: 25907.6/120

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.132 $\pm$ 0.008 χ^2 /NDF: 1841.5/34

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.096 $\pm$ 0.008 χ^2 /NDF: 4453.6/37

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

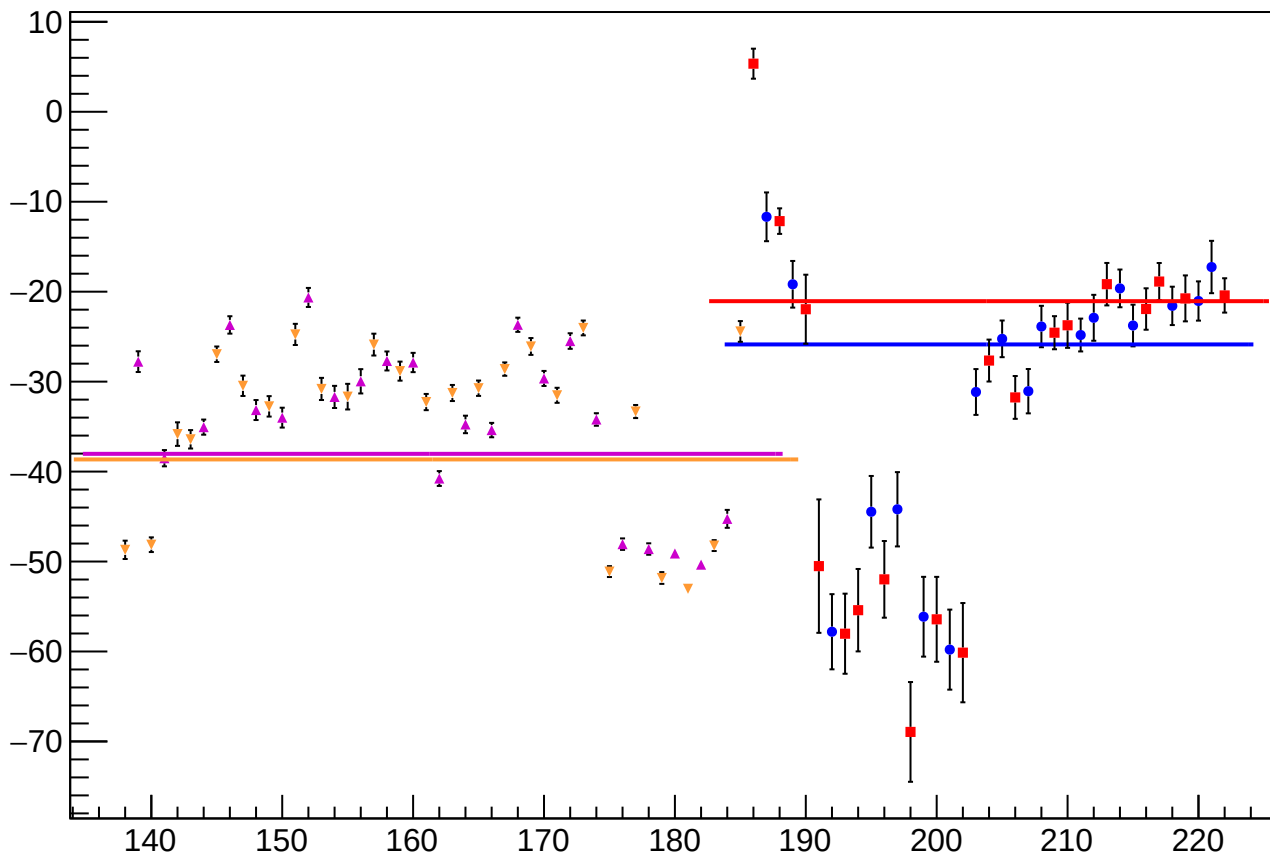
Right: 0.114 $\pm$ 0.006 χ^2 /NDF: 6305.0/72

In: -0.087 $\pm$ 0.002 χ^2 /NDF: 2947.1/57

Out: -0.096 $\pm$ 0.002 χ^2 /NDF: 5371.4/62

All: -0.091 $\pm$ 0.002 χ^2 /NDF: 8326.1/120

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

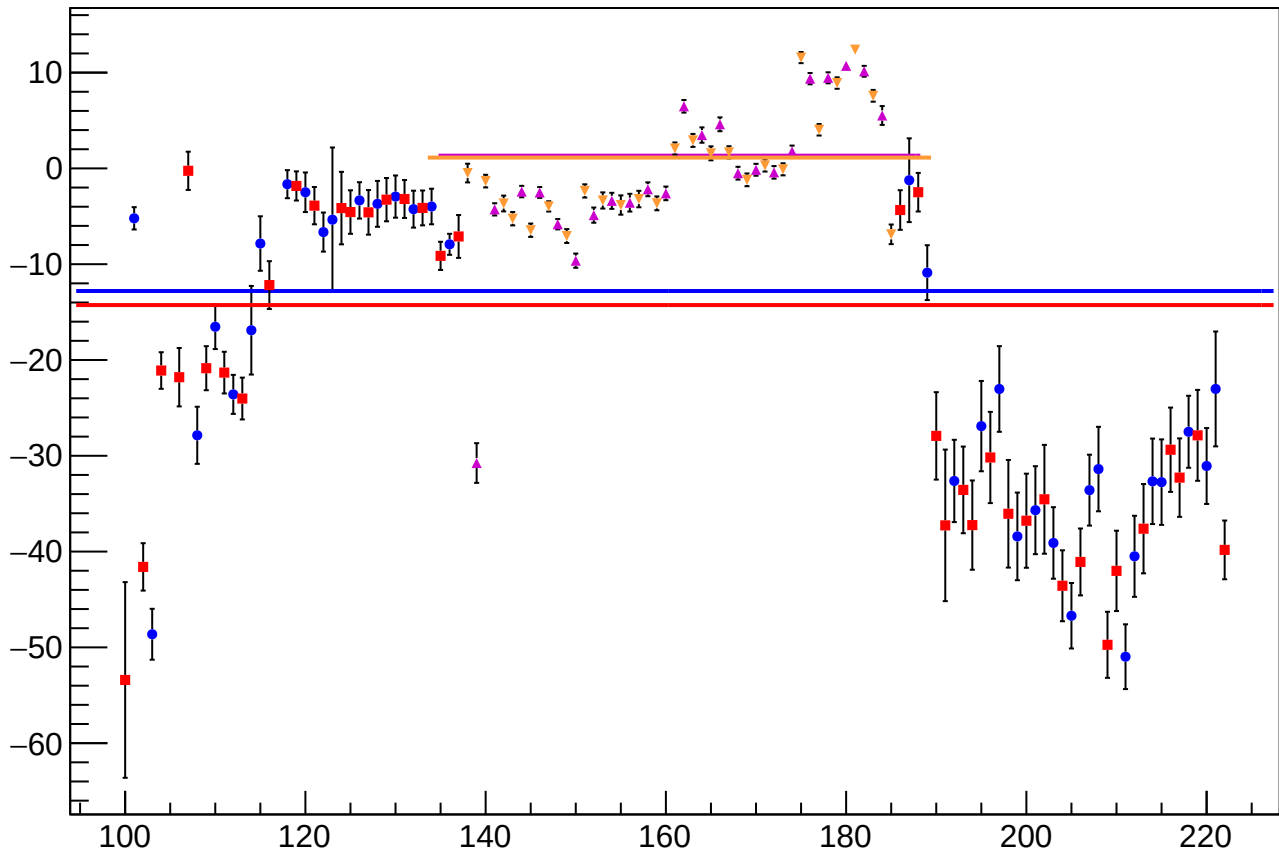


Right In: -25.865 ± 0.605 χ^2/NDF : 277.3/17
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.055 ± 0.573 χ^2/NDF : 699.0/18
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -23.326 ± 0.416 χ^2/NDF : 1009.6/36
 In: -37.107 ± 0.167 χ^2/NDF : 3742.3/40
 Out: -37.239 ± 0.162 χ^2/NDF : 5644.5/43

All: -37.175 ± 0.116 χ^2/NDF : 9387.1/84

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.798 ± 0.419 χ^2/NDF : 1044.4/34

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -14.267 ± 0.425 χ^2/NDF : 1073.1/37

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

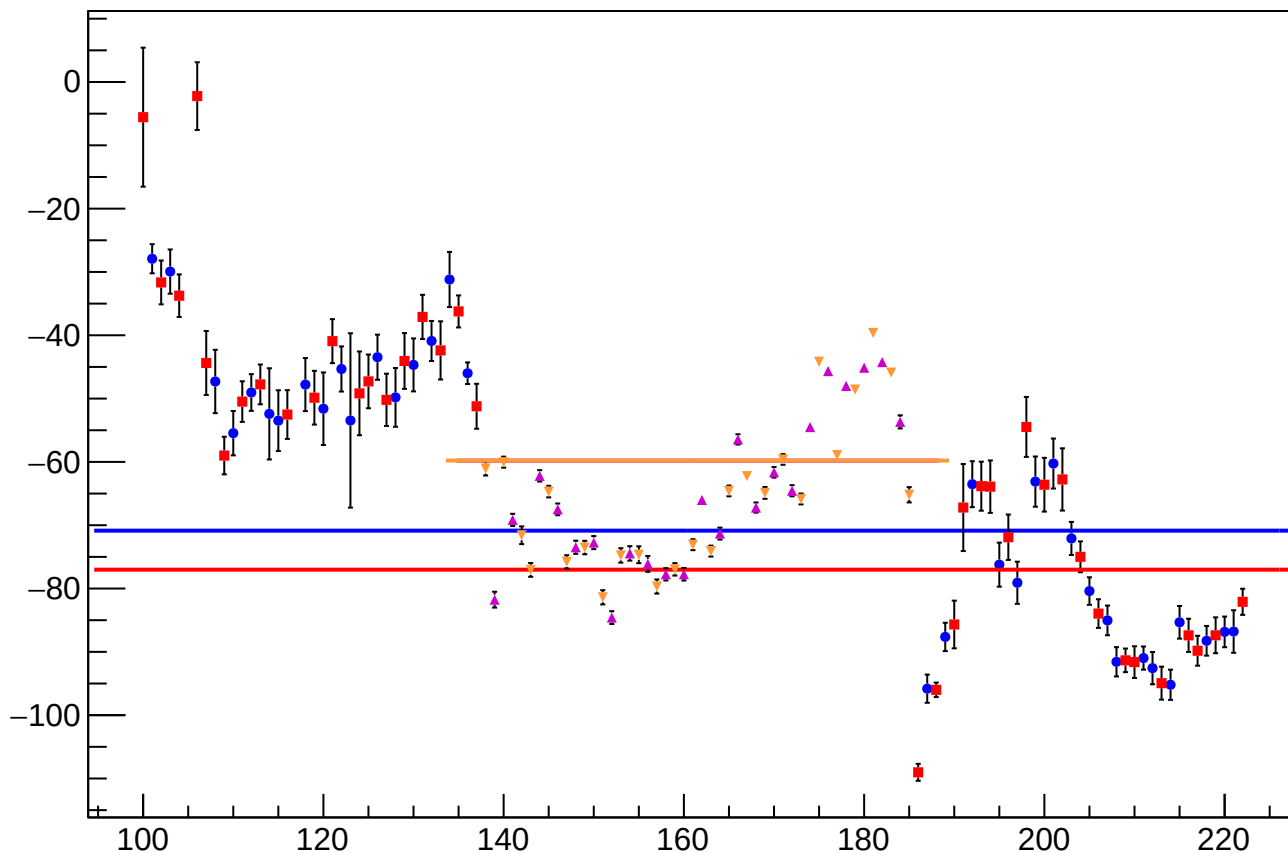
Right: -13.521 ± 0.298 χ^2/NDF : 2123.5/72

In: -0.087 ± 0.133 χ^2/NDF : 4115.9/57

Out: -0.298 ± 0.130 χ^2/NDF : 4061.5/62

All: -0.195 ± 0.093 χ^2/NDF : 8178.7/120

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.857 ± 0.491 χ^2/NDF : 1992.5/34

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -77.019 ± 0.460 χ^2/NDF : 2797.9/37

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

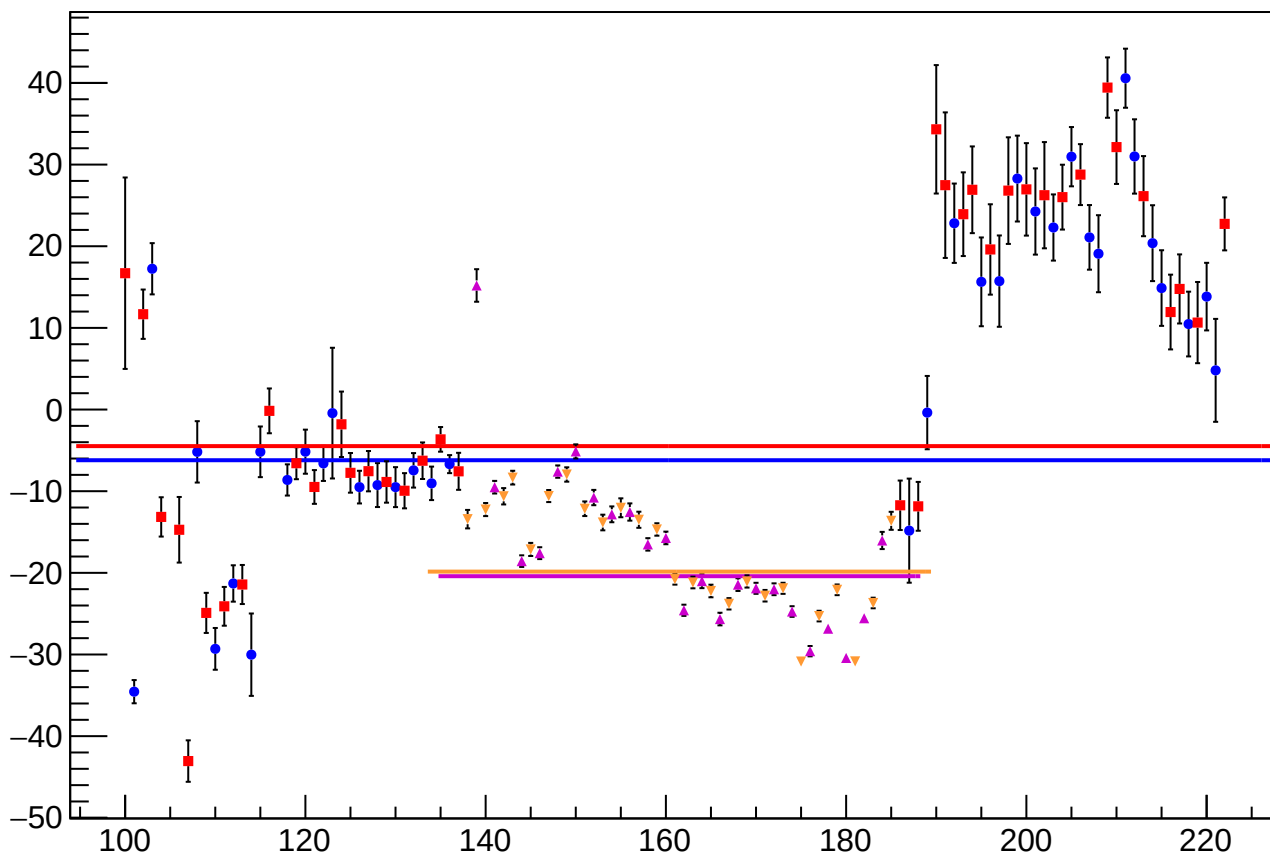
Right: -74.140 ± 0.336 χ^2/NDF : 4874.2/72

In: -61.026 ± 0.163 χ^2/NDF : 7660.7/57

Out: -61.862 ± 0.160 χ^2/NDF : 9870.0/62

All: -61.454 ± 0.114 χ^2/NDF : 17544.0/120

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.207 ± 0.471 χ^2/NDF : 1323.3/34

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -4.479 ± 0.487 χ^2/NDF : 1202.5/37

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

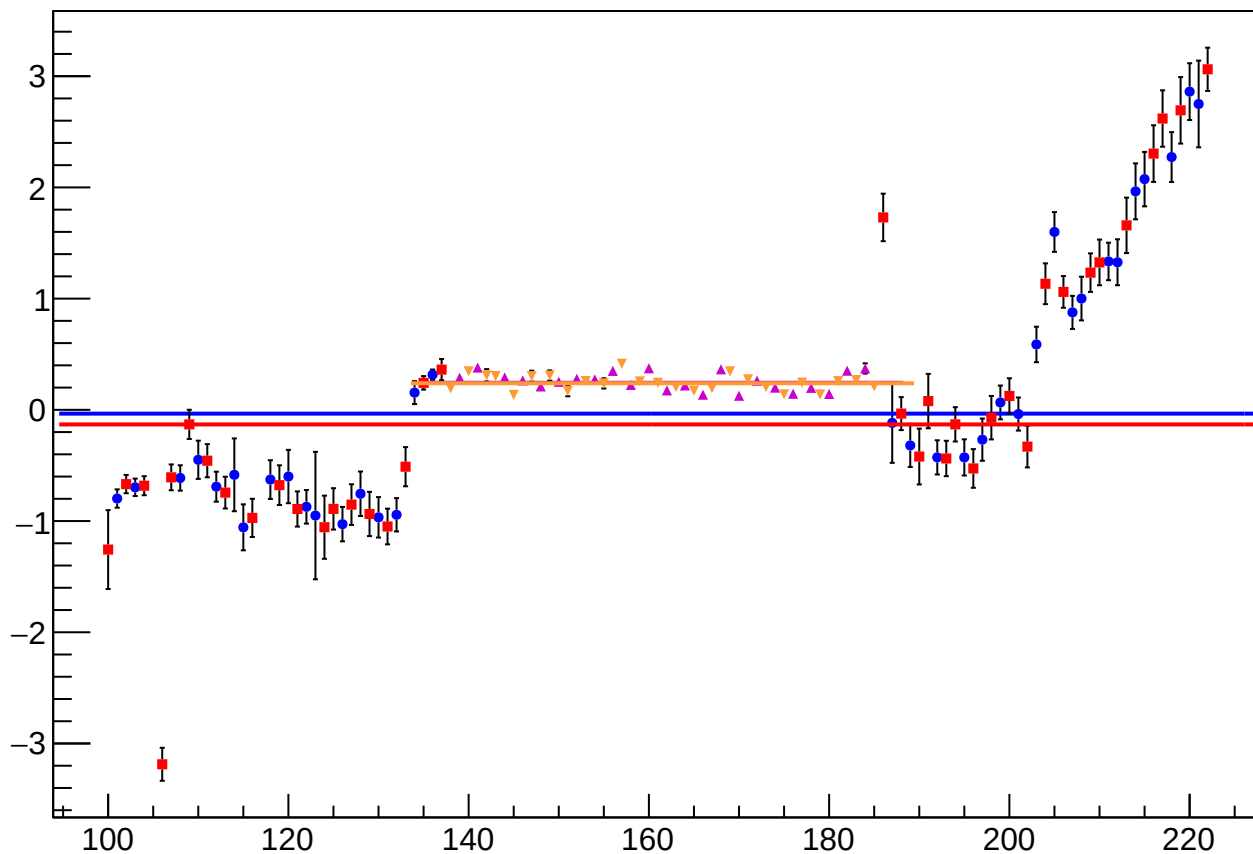
Right: -5.372 ± 0.338 χ^2/NDF : 2532.3/72

In: -18.995 ± 0.149 χ^2/NDF : 4444.3/57

Out: -18.469 ± 0.146 χ^2/NDF : 4041.7/62

All: -18.727 ± 0.104 χ^2/NDF : 8492.4/120

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.034 ± 0.023 χ^2/NDF : 1181.7/34

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.131 ± 0.024 χ^2/NDF : 1716.9/37

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

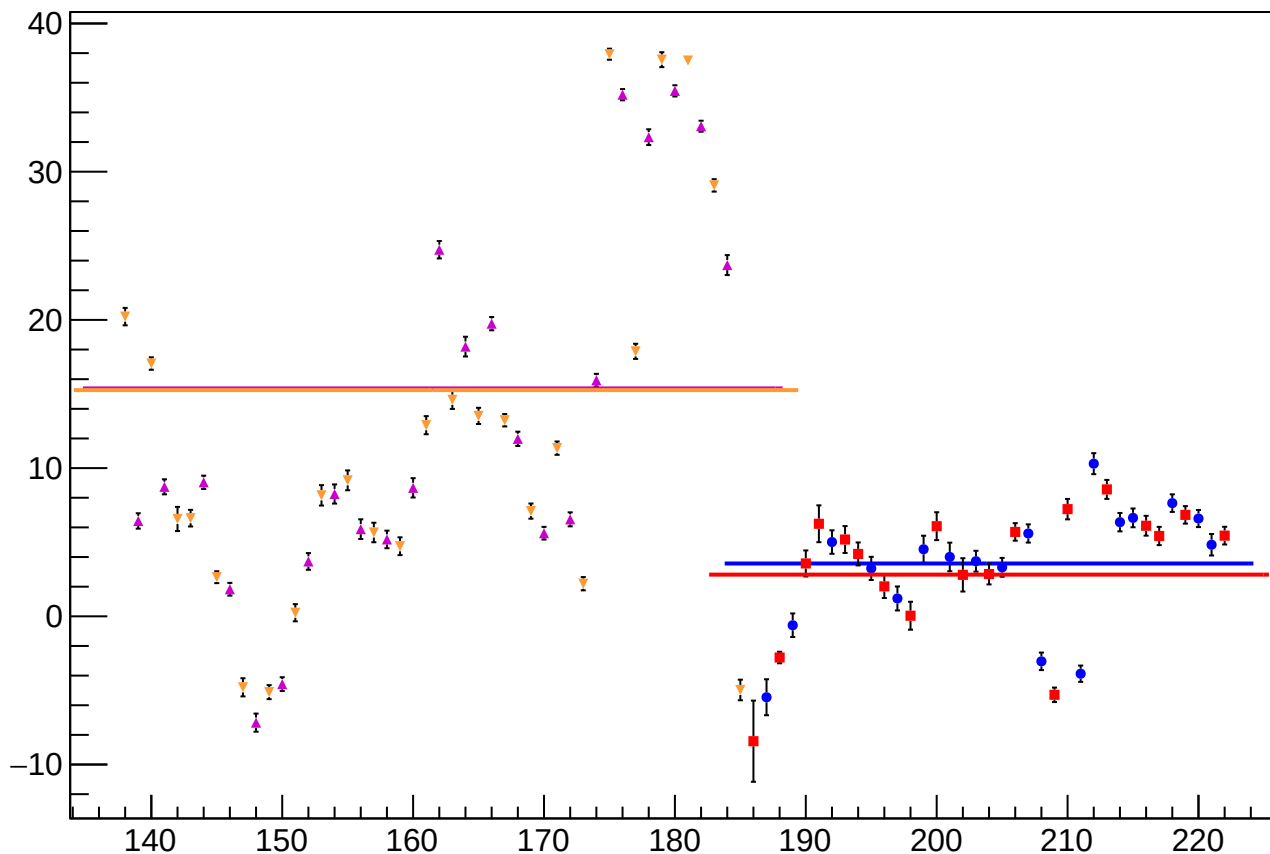
Right: -0.082 ± 0.017 χ^2/NDF : 2907.0/72

In: 0.220 ± 0.007 χ^2/NDF : 1448.0/57

Out: 0.209 ± 0.007 χ^2/NDF : 2030.8/62

All: 0.214 ± 0.005 χ^2/NDF : 3479.9/120

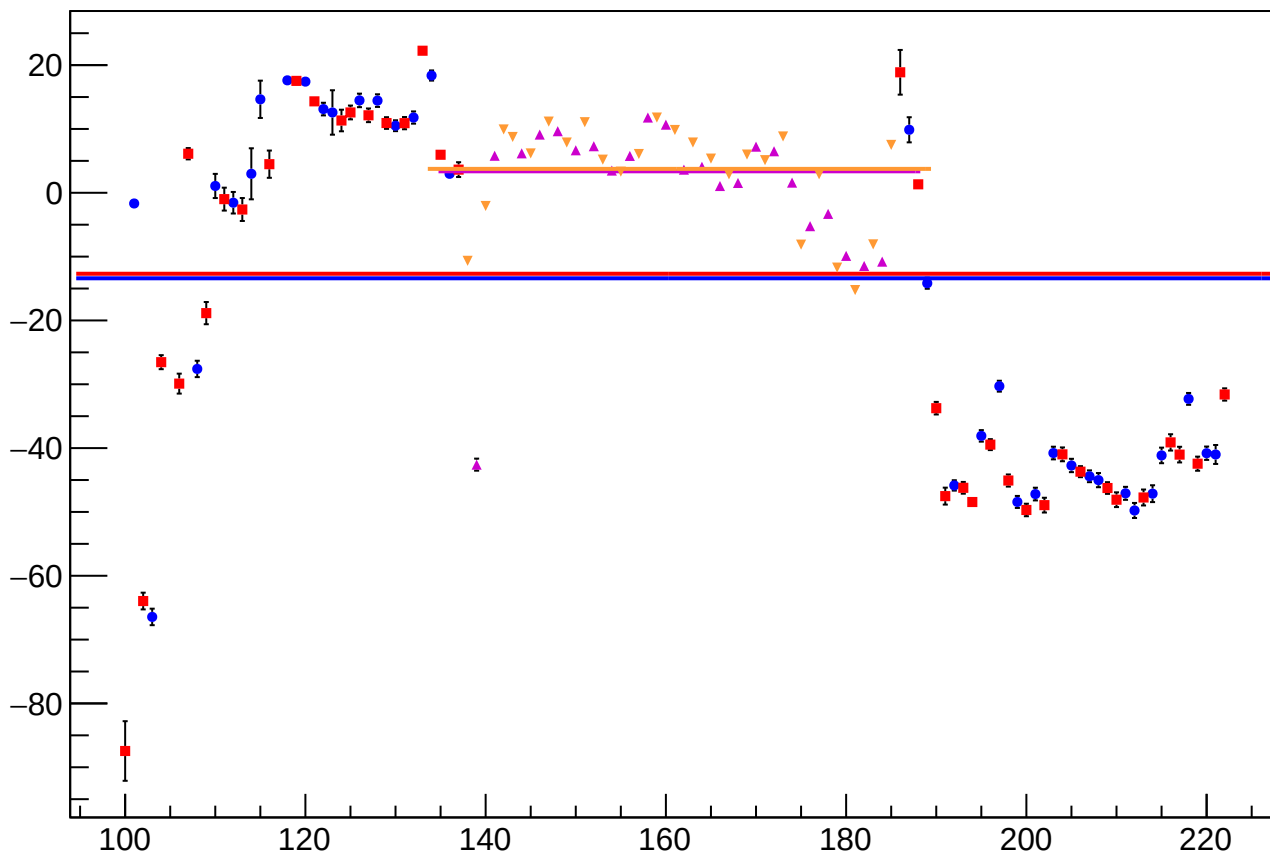
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.564 ± 0.163 χ^2/NDF : 626.9/17
 Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24
 Right Out: 2.814 ± 0.157 χ^2/NDF : 792.5/18
 Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47
 Right: 3.174 ± 0.113 χ^2/NDF : 1430.3/36
 In: 12.031 ± 0.087 χ^2/NDF : 20638.5/40
 Out: 11.656 ± 0.085 χ^2/NDF : 24413.7/43
 All: 11.839 ± 0.061 χ^2/NDF : 45061.8/84

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.398 ± 0.162 $\chi^2/\text{NDF}: 28217.1/34$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -12.684 ± 0.155 $\chi^2/\text{NDF}: 33436.7/37$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

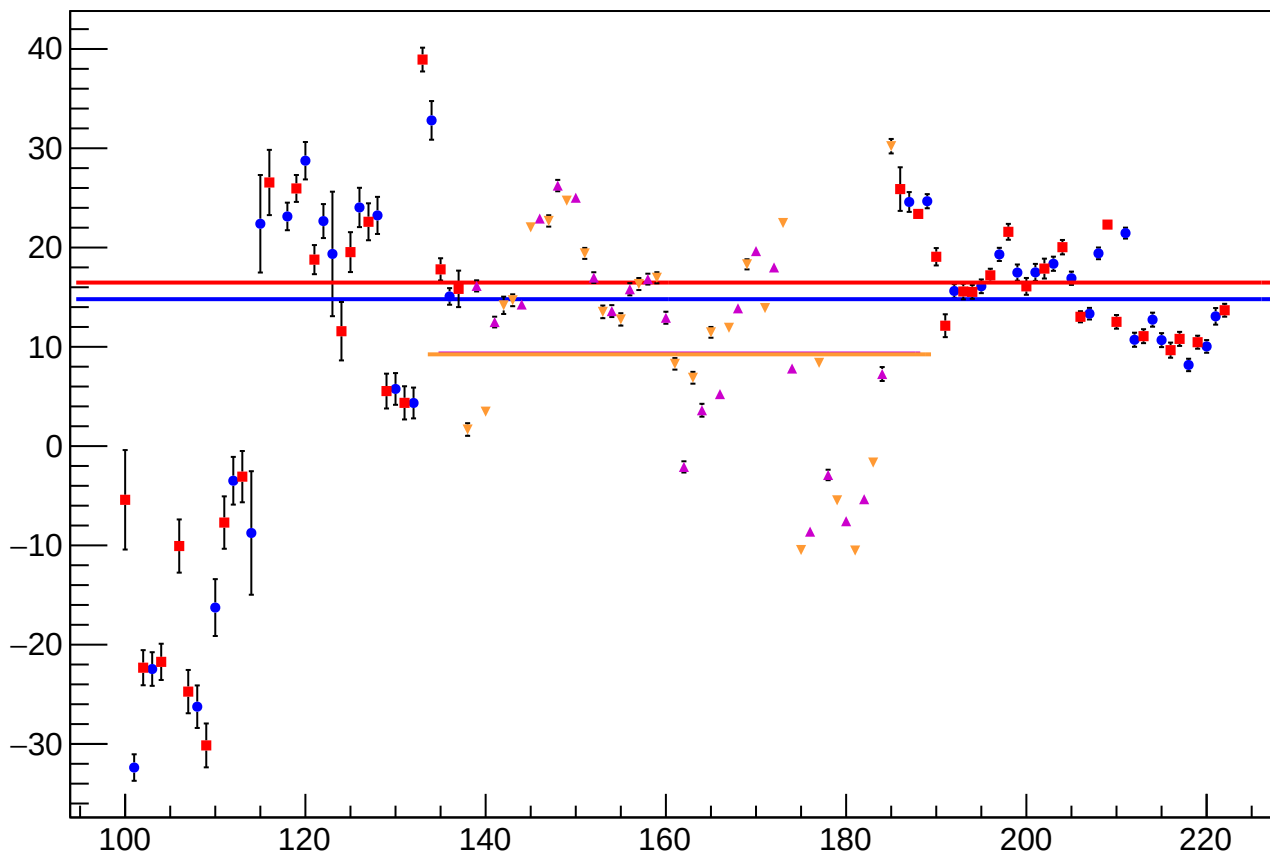
Right: -13.026 ± 0.112 $\chi^2/\text{NDF}: 61664.0/72$

In: -0.008 ± 0.073 $\chi^2/\text{NDF}: 45312.4/57$

Out: 0.373 ± 0.070 $\chi^2/\text{NDF}: 51619.8/62$

All: 0.189 ± 0.050 $\chi^2/\text{NDF}: 96946.4/120$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.800 ± 0.151 χ^2/NDF : 3465.2/34

Left Out: 9.242 ± 0.101 χ^2/NDF : 13633.2/24

Right Out: 16.473 ± 0.142 χ^2/NDF : 3609.0/37

Left In: 9.328 ± 0.103 χ^2/NDF : 11968.5/22

Left: 9.284 ± 0.072 χ^2/NDF : 25602.0/47

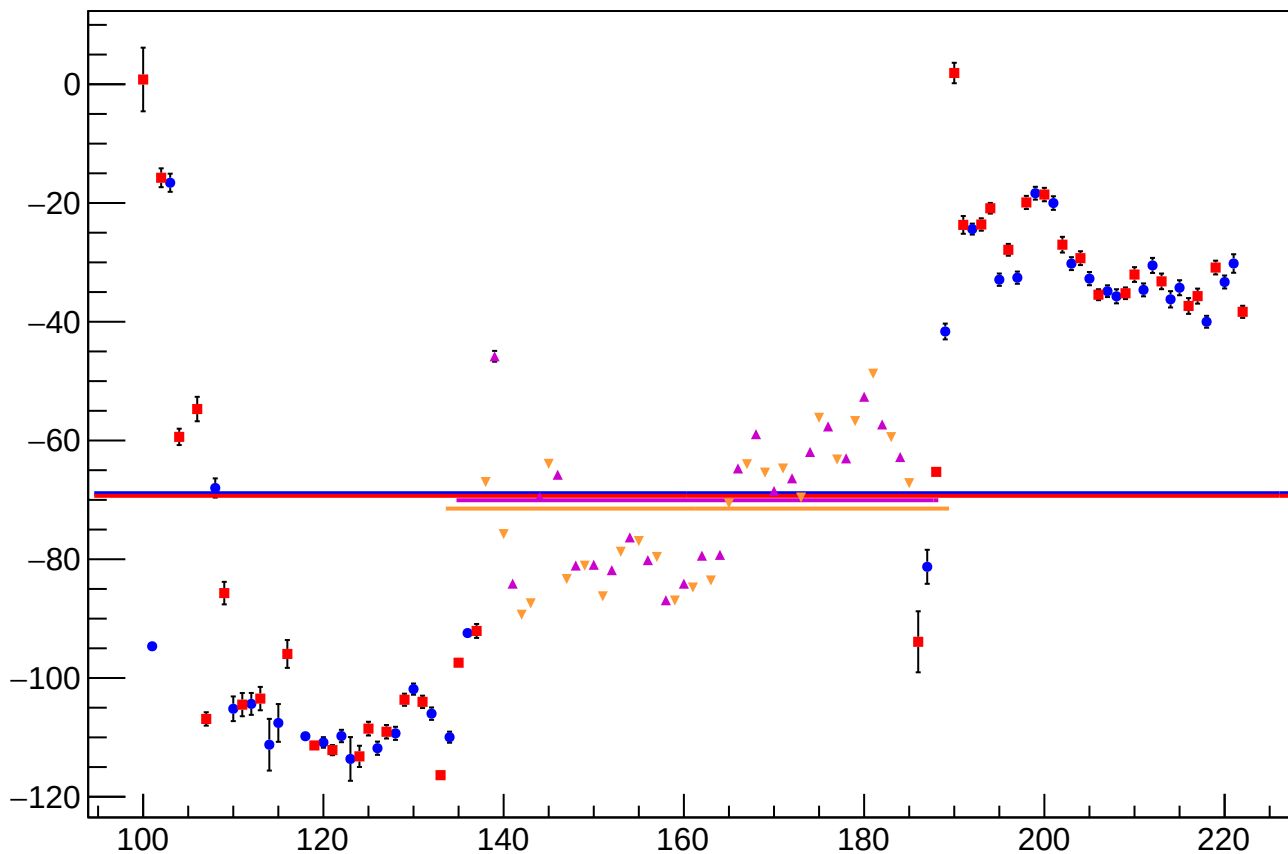
Right: 15.689 ± 0.104 χ^2/NDF : 7139.2/72

In: 11.051 ± 0.085 χ^2/NDF : 16330.1/57

Out: 11.669 ± 0.082 χ^2/NDF : 18966.0/62

All: 11.370 ± 0.059 χ^2/NDF : 35323.5/120

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.878 ± 0.184 $\chi^2/\text{NDF}: 39495.4/34$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -69.313 ± 0.179 $\chi^2/\text{NDF}: 47074.1/37$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

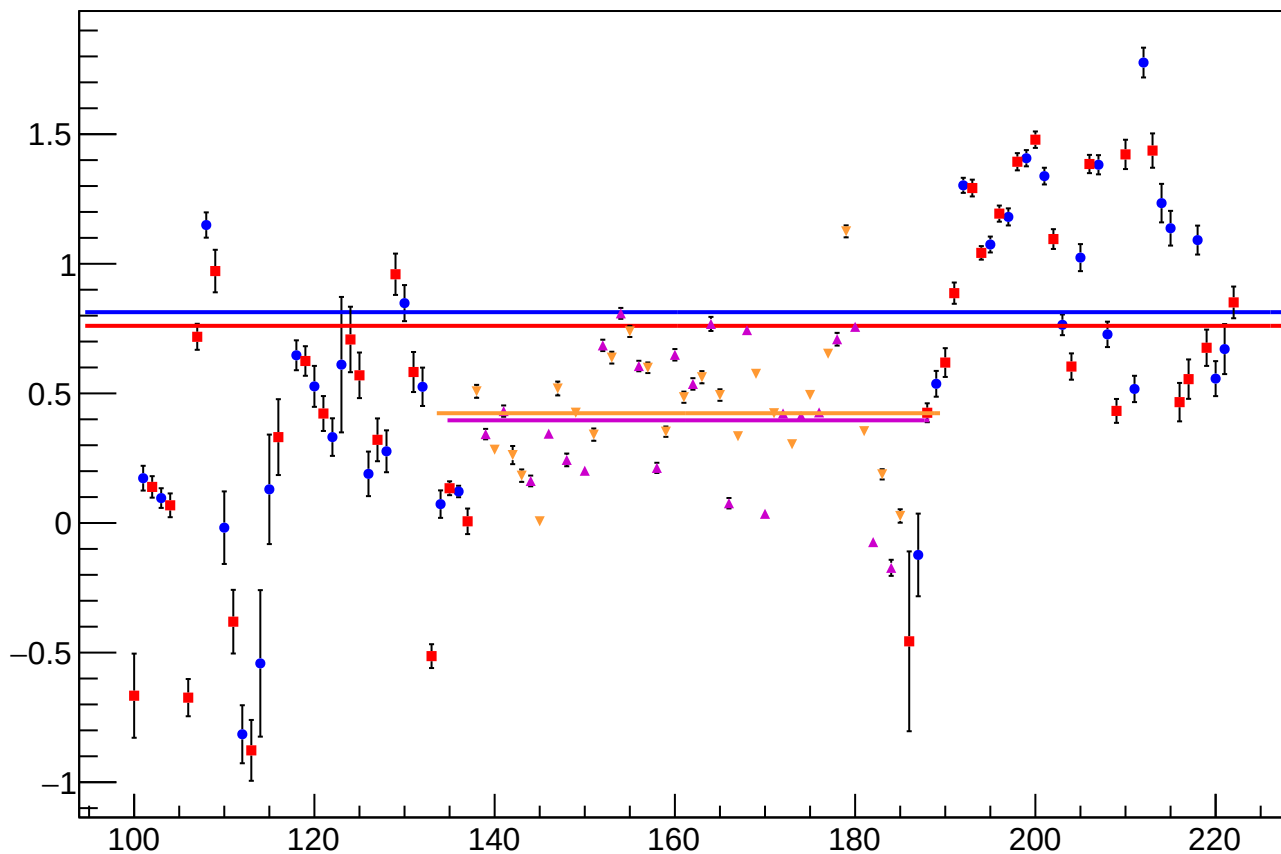
Right: -69.102 ± 0.128 $\chi^2/\text{NDF}: 86572.3/72$

In: -69.826 ± 0.082 $\chi^2/\text{NDF}: 52586.9/57$

Out: -71.037 ± 0.080 $\chi^2/\text{NDF}: 63599.3/62$

All: -70.448 ± 0.057 $\chi^2/\text{NDF}: 116298.0/120$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.813 $\pm$ 0.008 χ^2 /NDF: 4056.0/34

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.761 $\pm$ 0.008 χ^2 /NDF: 5140.3/37

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

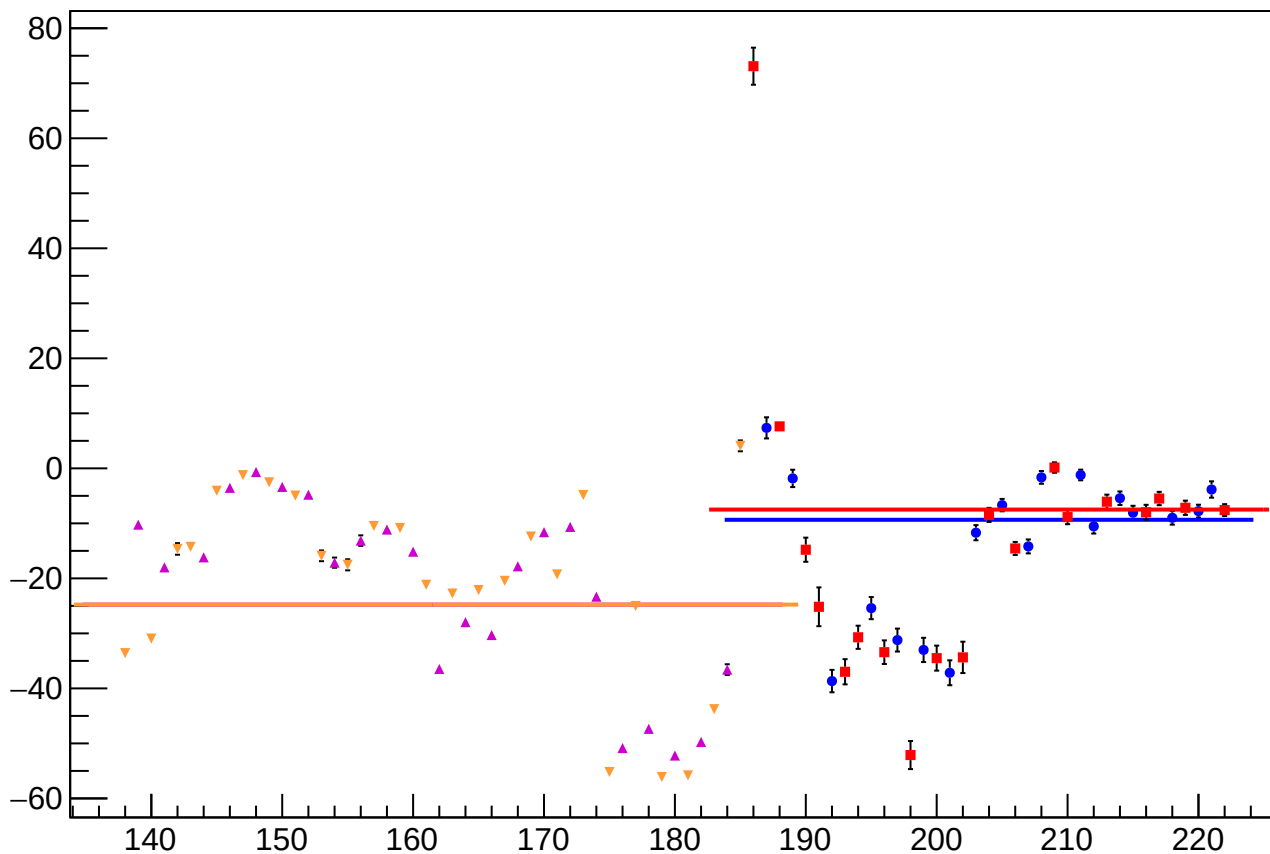
Right: 0.786 $\pm$ 0.006 χ^2 /NDF: 9218.0/72

In: 0.482 $\pm$ 0.004 χ^2 /NDF:10173.1/57

Out: 0.496 $\pm$ 0.004 χ^2 /NDF:9476.8/62

All: 0.489 $\pm$ 0.003 χ^2 /NDF: 19657.0/120

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.349 ± 0.329 χ^2/NDF : 909.7/17
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.494 ± 0.327 χ^2/NDF : 2040.7/18
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47

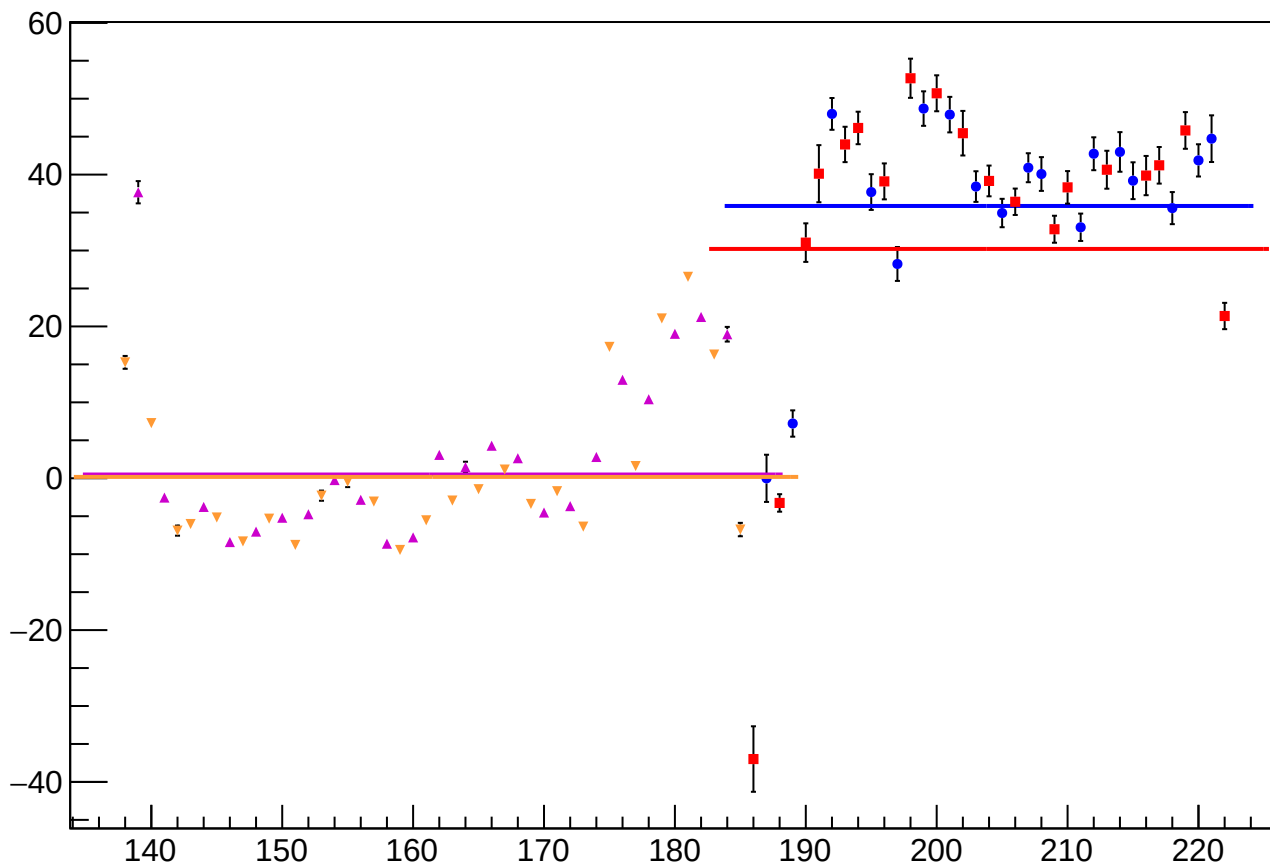
Right: -8.415 ± 0.232 χ^2/NDF : 2966.4/36

In: -22.332 ± 0.131 χ^2/NDF : 17566.0/40

Out: -22.110 ± 0.128 χ^2/NDF : 22723.7/43

All: -22.218 ± 0.092 χ^2/NDF : 40291.2/84

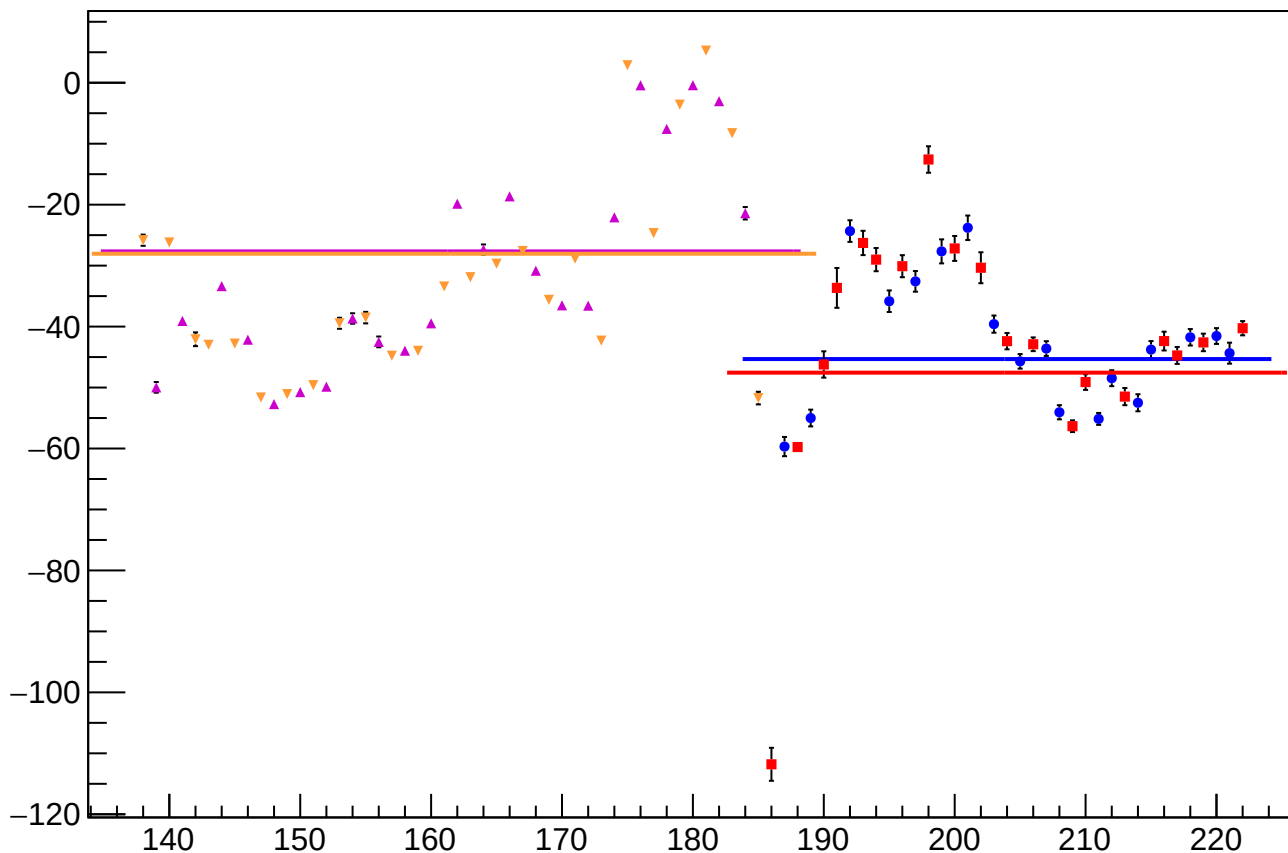
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.869 $\pm$ 0.512 χ^2 /NDF: 561.4/17
 Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24
 Right Out: 30.209 $\pm$ 0.491 χ^2 /NDF: 1543.4/18
 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: 32.921 $\pm$ 0.354 χ^2 /NDF: 2168.6/36
 In: 2.114 $\pm$ 0.110 χ^2 /NDF:11677.4/40
 Out: 1.577 $\pm$ 0.106 χ^2 /NDF:13409.3/43
 All: 1.837 $\pm$ 0.076 χ^2 /NDF: 25099.1/84

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



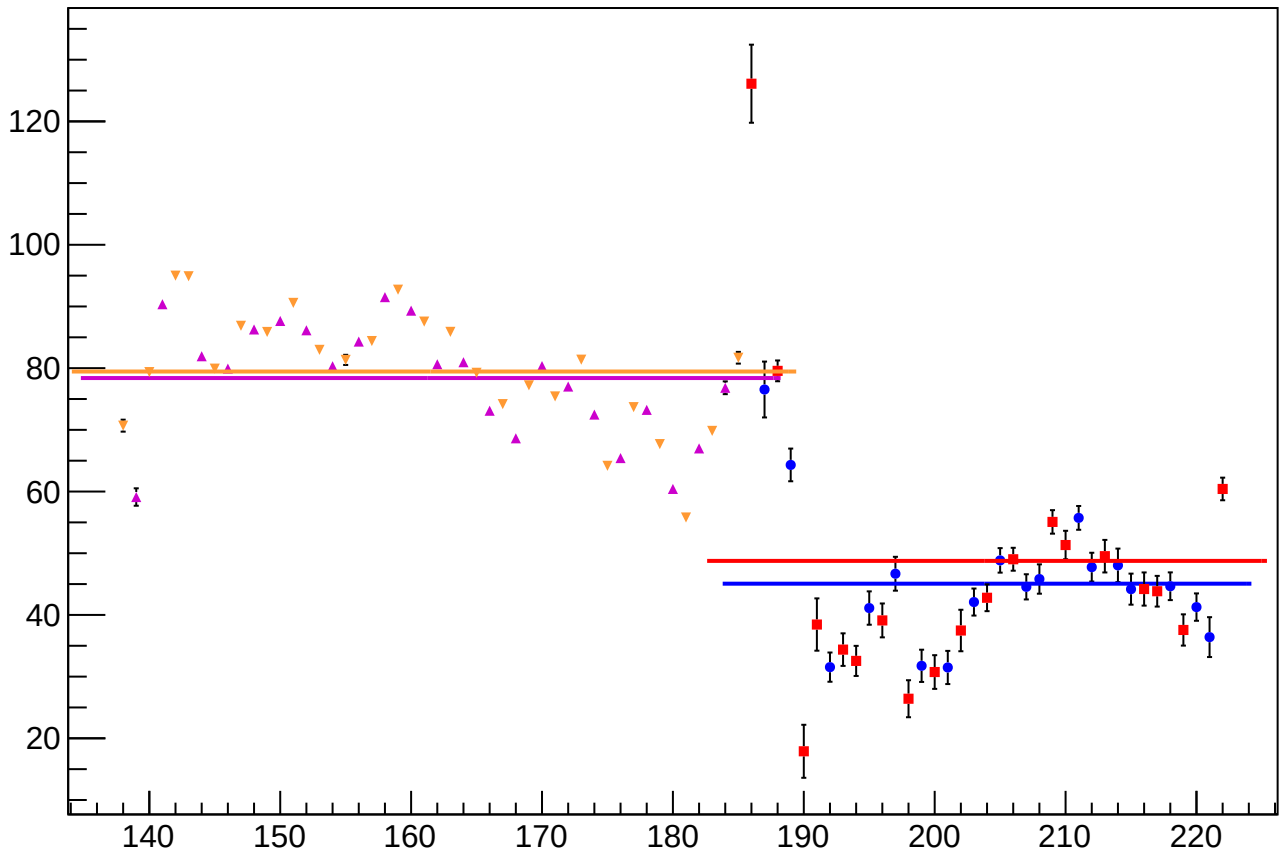
Right In: -45.327 ± 0.330 $\chi^2/\text{NDF}: 778.4/17$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -47.557 ± 0.317 $\chi^2/\text{NDF}: 1835.2/18$
 Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$
 Right: -46.488 ± 0.228 $\chi^2/\text{NDF}: 2637.4/36$

In: -30.442 ± 0.131 $\chi^2/\text{NDF}: 18197.5/40$
 Out: -31.235 ± 0.128 $\chi^2/\text{NDF}: 22155.0/43$

All: -30.847 ± 0.091 $\chi^2/\text{NDF}: 40371.3/84$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.064 $\pm$ 0.573 χ^2 /NDF: 236.6/17

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.759 $\pm$ 0.566 χ^2 /NDF: 823.7/18

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

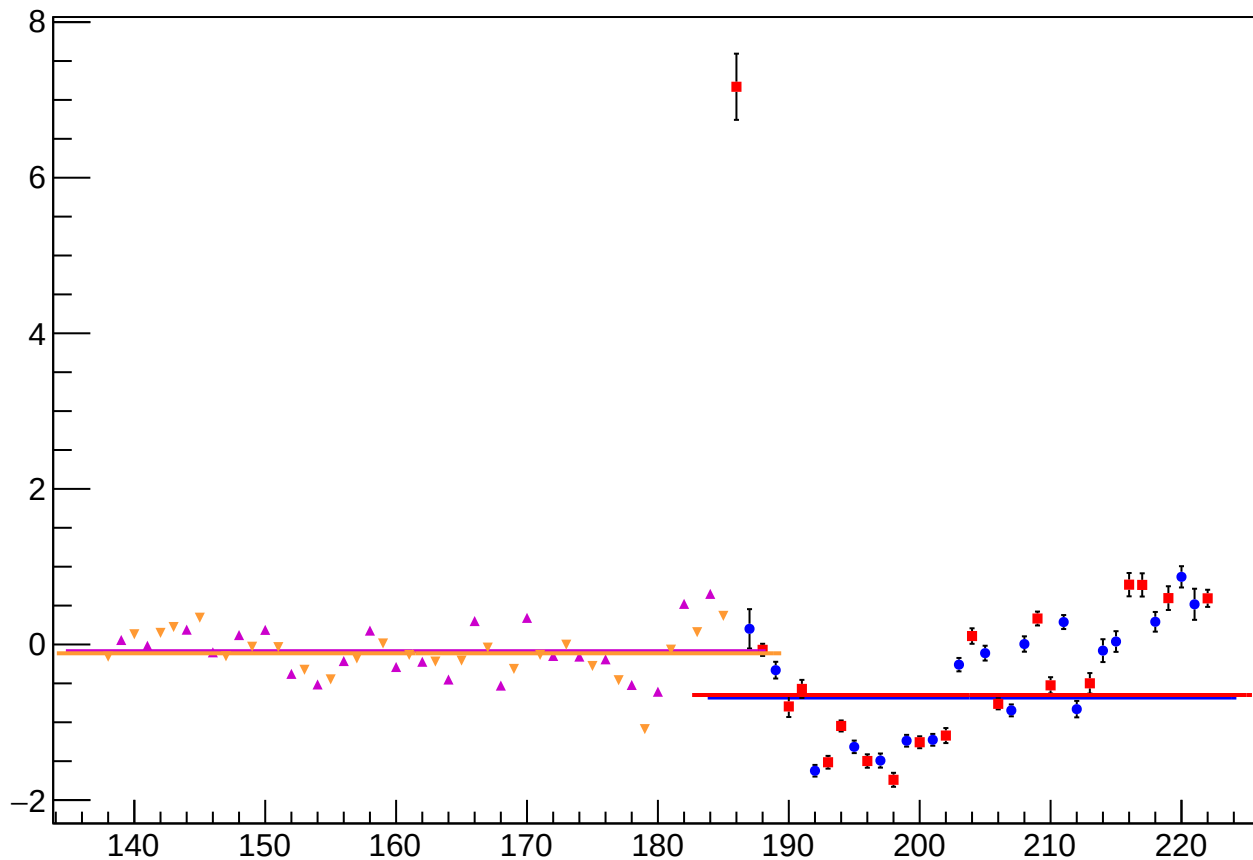
Right: 46.936 $\pm$ 0.403 χ^2 /NDF: 1081.4/36

In: 76.842 $\pm$ 0.124 χ^2 /NDF: 8169.8/40

Out: 78.066 $\pm$ 0.120 χ^2 /NDF: 9713.3/43

All: 77.471 $\pm$ 0.086 χ^2 /NDF: 17933.4/84

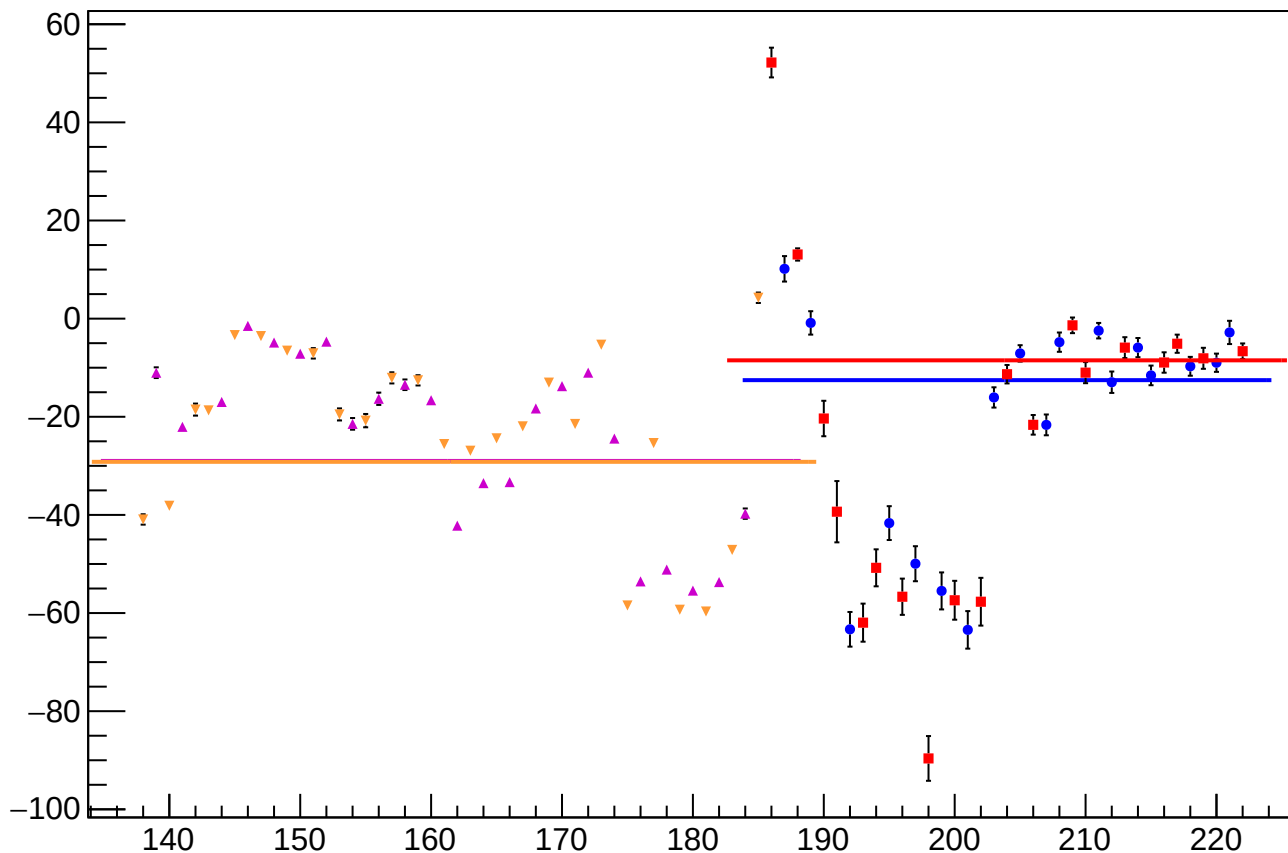
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.682 ± 0.023 χ^2/NDF : 929.2/17
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.649 ± 0.023 χ^2/NDF : 1431.3/18
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.665 ± 0.016 χ^2/NDF : 2361.5/36
 In: -0.122 ± 0.006 χ^2/NDF : 4689.4/40
 Out: -0.145 ± 0.006 χ^2/NDF : 4267.1/43
 All: -0.134 ± 0.004 χ^2/NDF : 8965.6/84

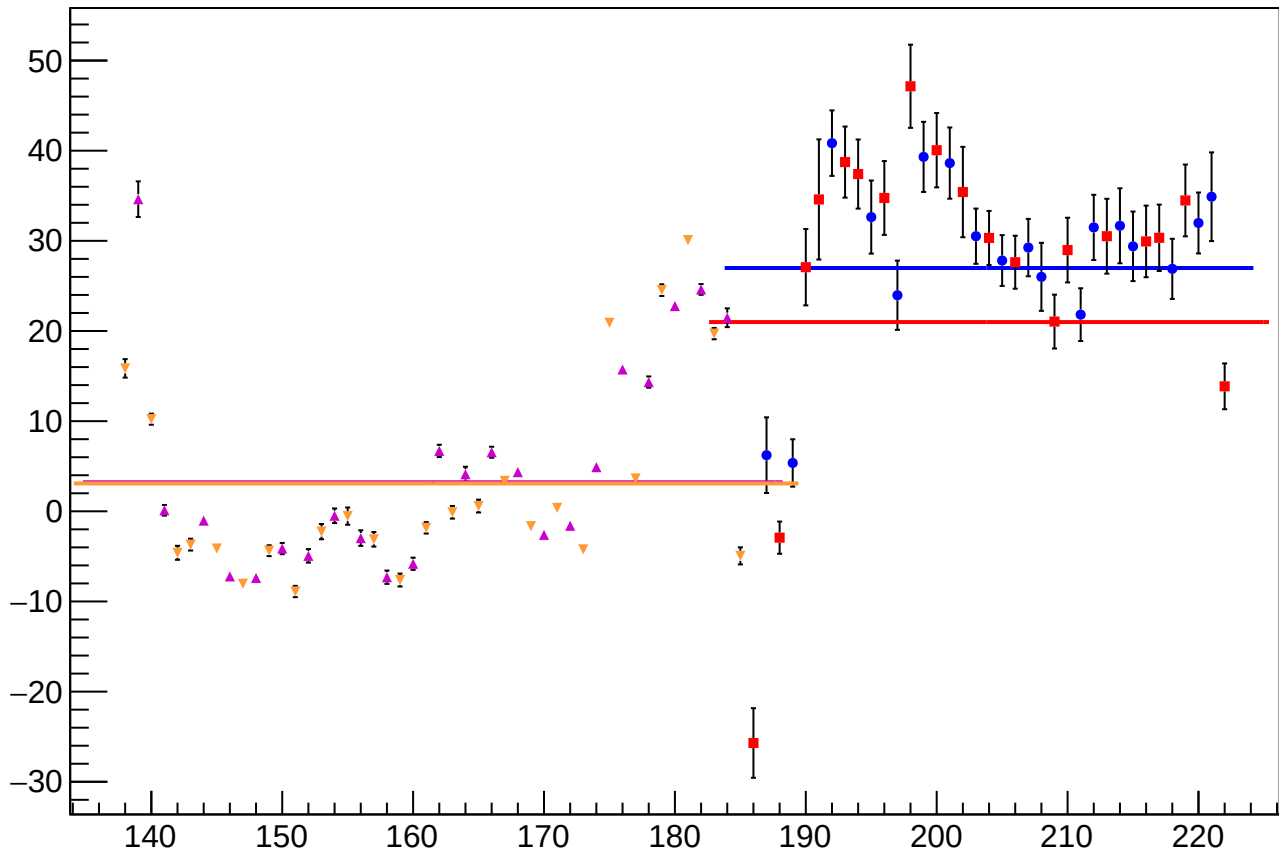
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.535 ± 0.524 χ^2/NDF : 917.5/17
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -8.499 ± 0.519 χ^2/NDF : 1863.3/18
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -10.495 ± 0.369 χ^2/NDF : 2810.8/36
 In: -27.603 ± 0.153 χ^2/NDF : 15236.9/40
 Out: -27.448 ± 0.150 χ^2/NDF : 20232.7/43
 All: -27.524 ± 0.107 χ^2/NDF : 35470.1/84

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.988 $\pm$ 0.823 χ^2 /NDF: 141.1/17

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 20.992 $\pm$ 0.784 χ^2 /NDF: 499.5/18

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF: 6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

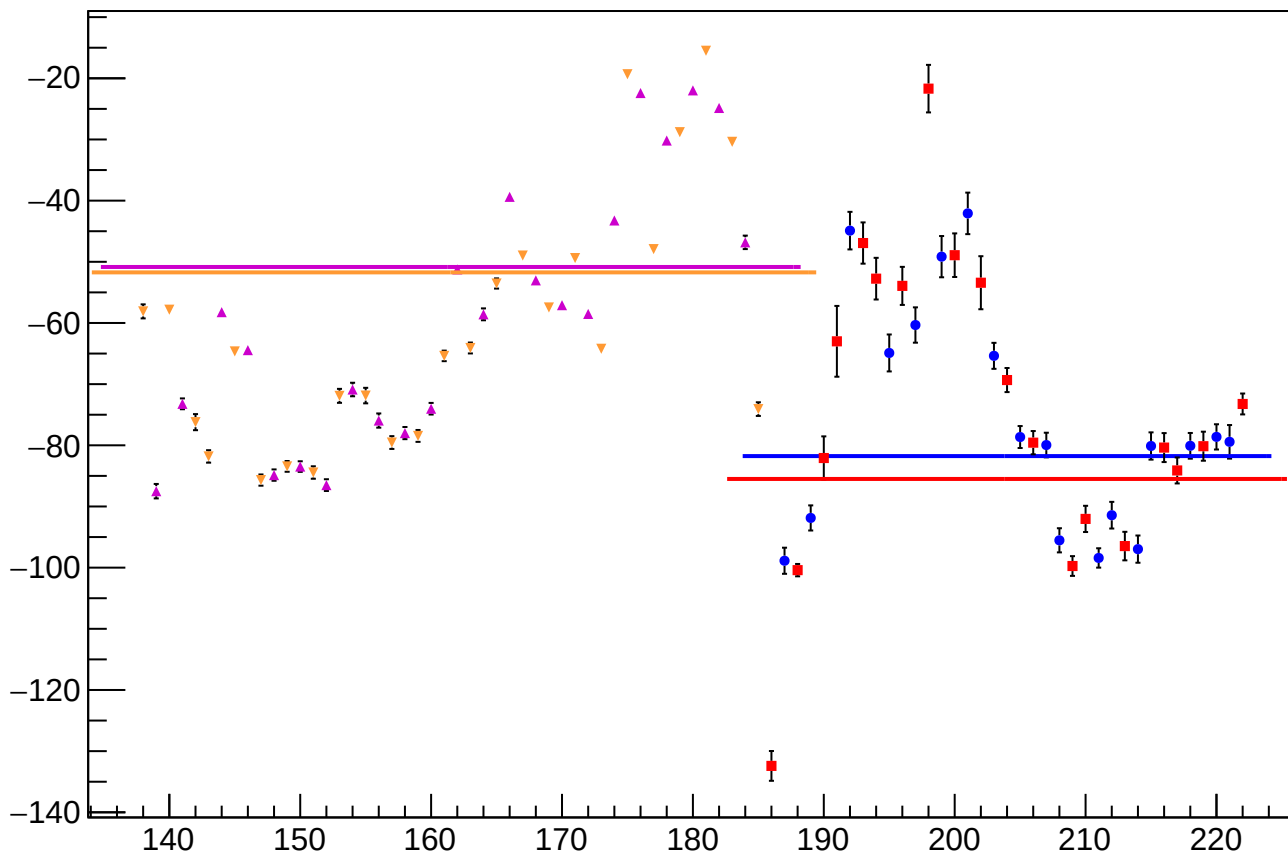
Right: 23.843 $\pm$ 0.568 χ^2 /NDF: 668.5/36

In: 3.773 $\pm$ 0.125 χ^2 /NDF: 7192.6/40

Out: 3.530 $\pm$ 0.123 χ^2 /NDF: 9092.1/43

All: 3.649 $\pm$ 0.088 χ^2 /NDF: 16286.6/84

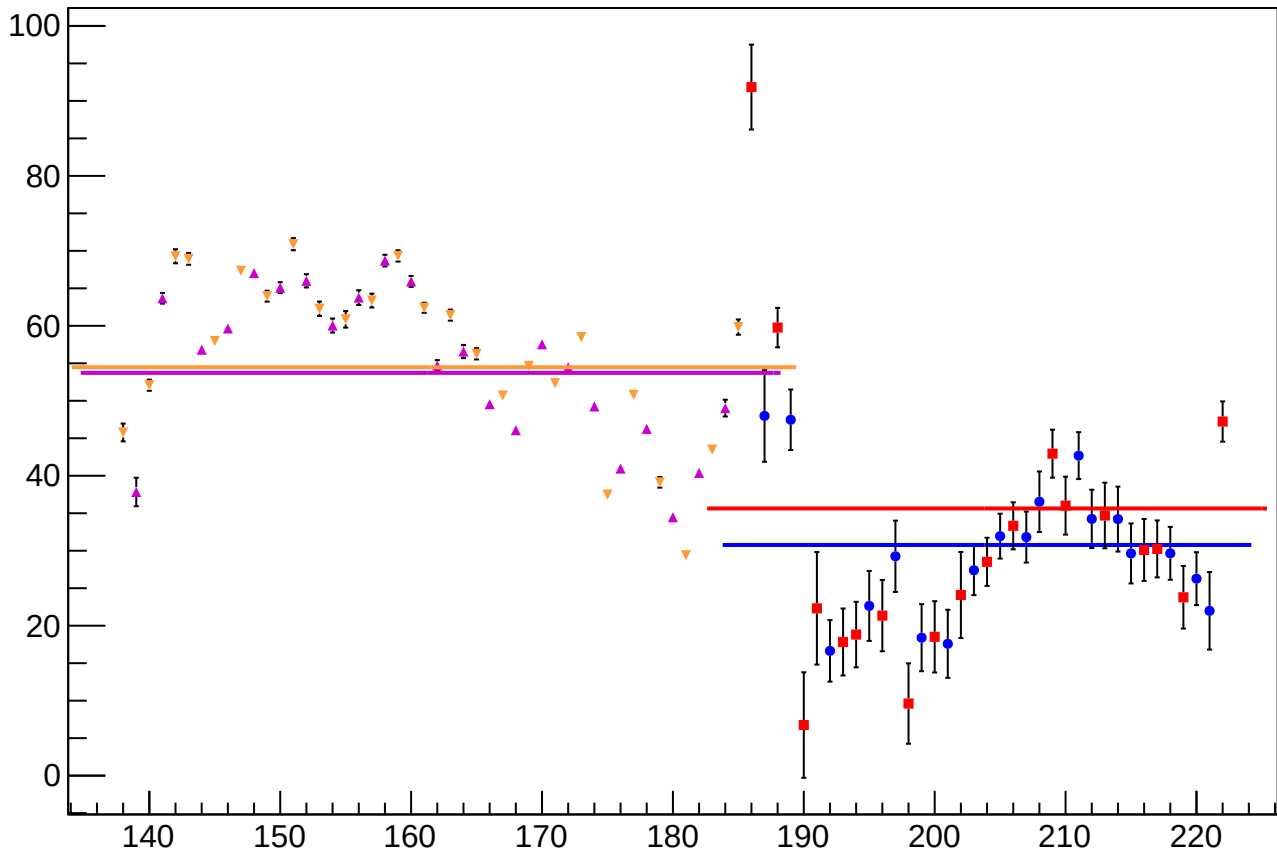
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.763 ± 0.526 χ^2/NDF : 842.3/17
 Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24
 Right Out: -85.500 ± 0.502 χ^2/NDF : 1608.6/18
 Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47
 Right: -83.721 ± 0.363 χ^2/NDF : 2477.3/36
 In: -53.462 ± 0.153 χ^2/NDF : 21272.3/40
 Out: -54.773 ± 0.151 χ^2/NDF : 25269.0/43
 All: -54.128 ± 0.107 χ^2/NDF : 46578.5/84

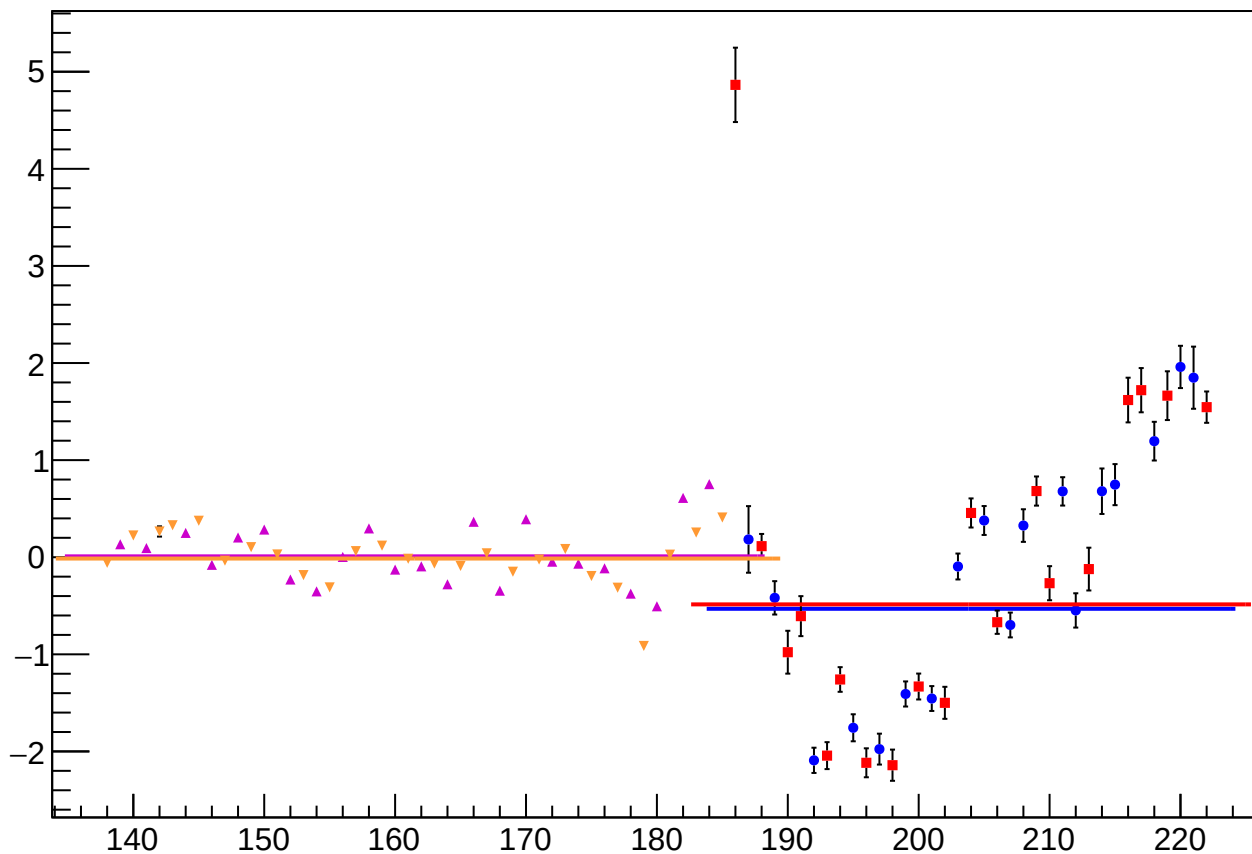
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 30.767 ± 0.925 $\chi^2/\text{NDF}: 80.0/17$
 Left Out: 54.476 ± 0.140 $\chi^2/\text{NDF}: 6266.9/24$
 Right Out: 35.634 ± 0.910 $\chi^2/\text{NDF}: 324.2/18$
 Left In: 53.724 ± 0.143 $\chi^2/\text{NDF}: 4585.7/22$

Left: 54.107 ± 0.100 $\chi^2/\text{NDF}: 10866.7/47$
 Right: 33.242 ± 0.649 $\chi^2/\text{NDF}: 418.2/36$
 In: 53.187 ± 0.141 $\chi^2/\text{NDF}: 5266.9/40$
 Out: 54.038 ± 0.139 $\chi^2/\text{NDF}: 7010.2/43$
 All: 53.621 ± 0.099 $\chi^2/\text{NDF}: 12295.6/84$

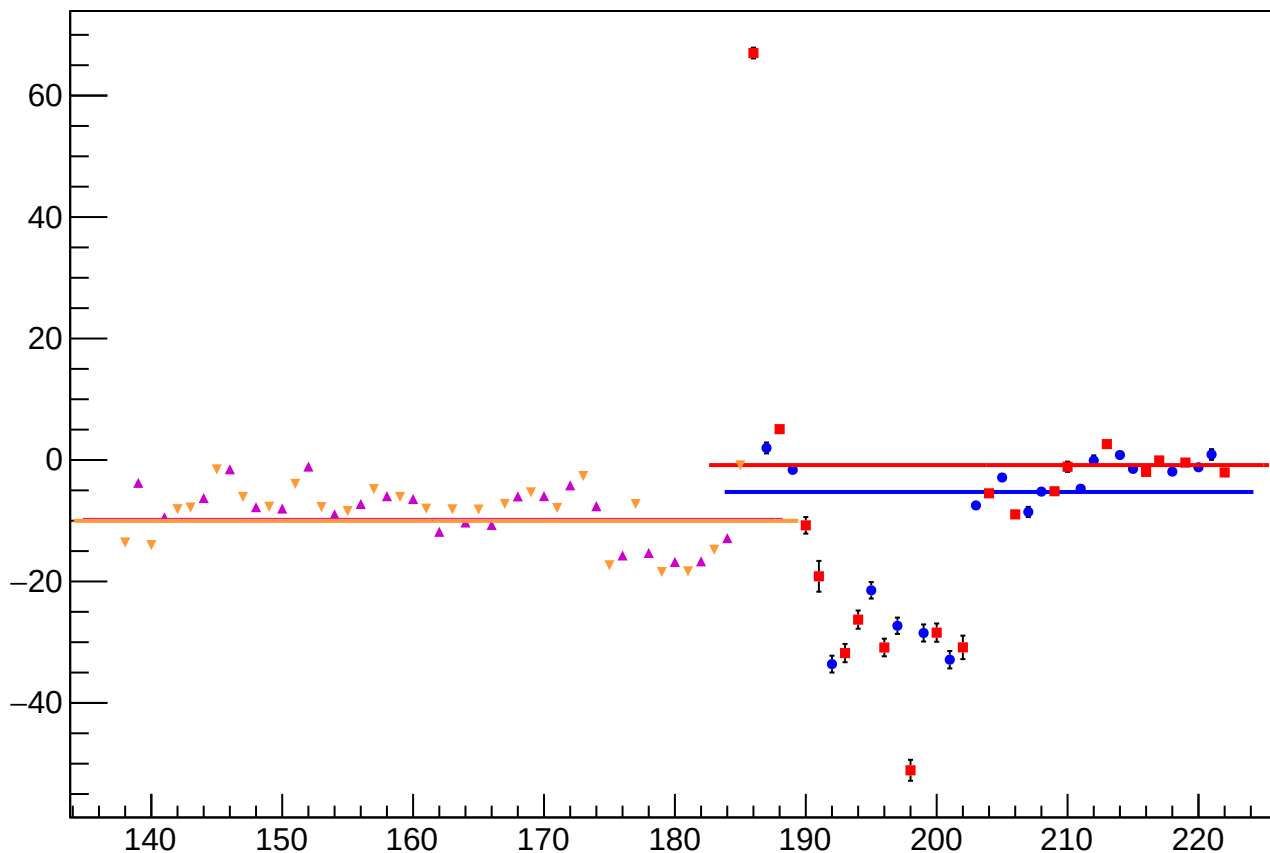
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.531 ± 0.038 χ^2/NDF : 876.1/17
 Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24
 Right Out: -0.486 ± 0.038 χ^2/NDF : 1206.0/18
 Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47
 Right: -0.508 ± 0.027 χ^2/NDF : 2082.8/36
 In: -0.006 ± 0.006 χ^2/NDF : 3291.3/40
 Out: -0.027 ± 0.006 χ^2/NDF : 3014.1/43
 All: -0.017 ± 0.005 χ^2/NDF : 6310.7/84

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected

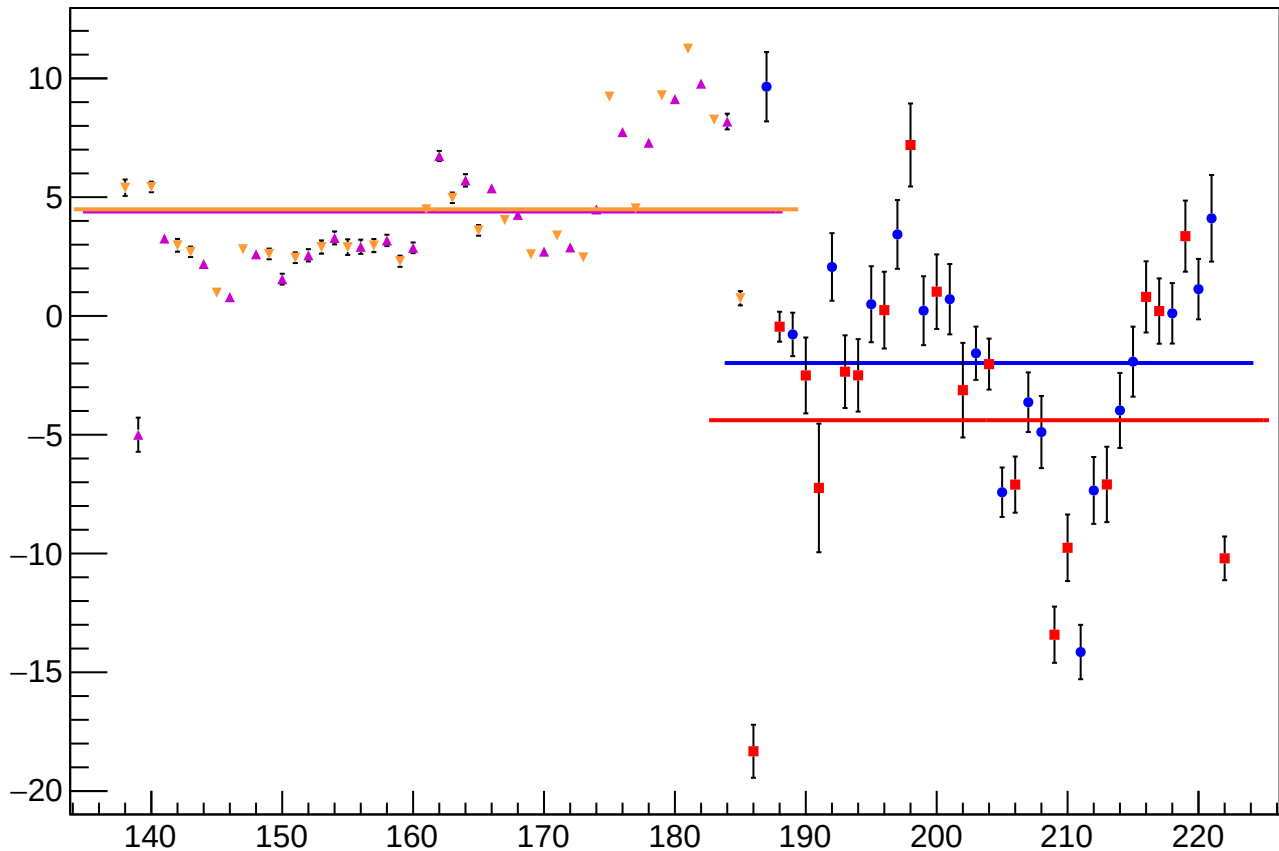


Right In: -5.267 ± 0.198 χ^2/NDF : 1832.7/17
 Left Out: -10.017 ± 0.051 χ^2/NDF : 12552.8/24
 Right Out: -0.839 ± 0.193 χ^2/NDF : 8941.9/18
 Left In: -9.865 ± 0.051 χ^2/NDF : 9345.4/22

Left: -9.942 ± 0.036 χ^2/NDF : 21902.5/47
 Right: -2.995 ± 0.138 χ^2/NDF : 11031.7/36
 In: -9.575 ± 0.050 χ^2/NDF : 11684.0/40
 Out: -9.424 ± 0.049 χ^2/NDF : 23615.8/43

All: -9.498 ± 0.035 χ^2/NDF : 35304.5/84

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.980 ± 0.310 χ^2/NDF : 276.9/17

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.388 ± 0.290 χ^2/NDF : 441.0/18

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

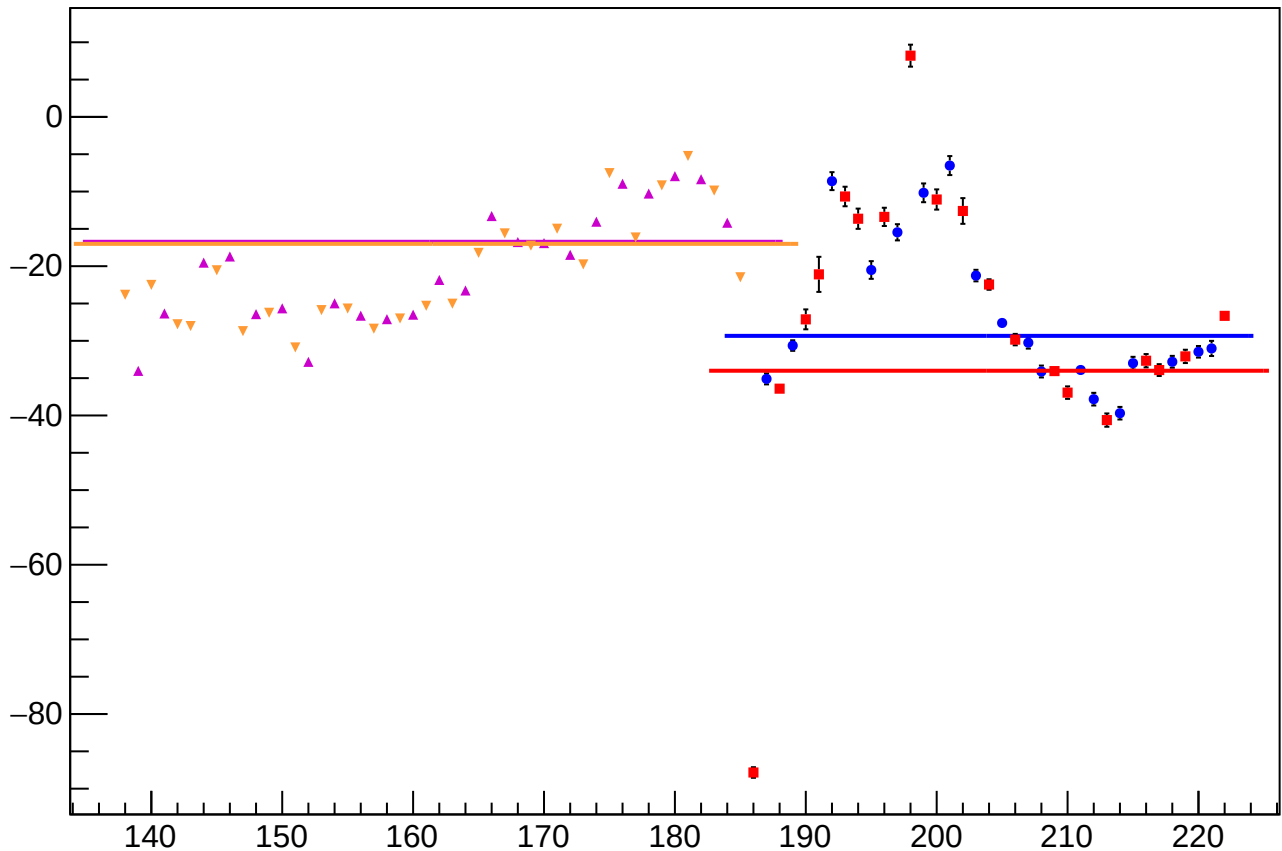
Right: -3.264 ± 0.212 χ^2/NDF : 750.1/36

In: 4.285 ± 0.041 χ^2/NDF : 4923.1/40

Out: 4.318 ± 0.040 χ^2/NDF : 6191.6/43

All: 4.302 ± 0.029 χ^2/NDF : 11115.0/84

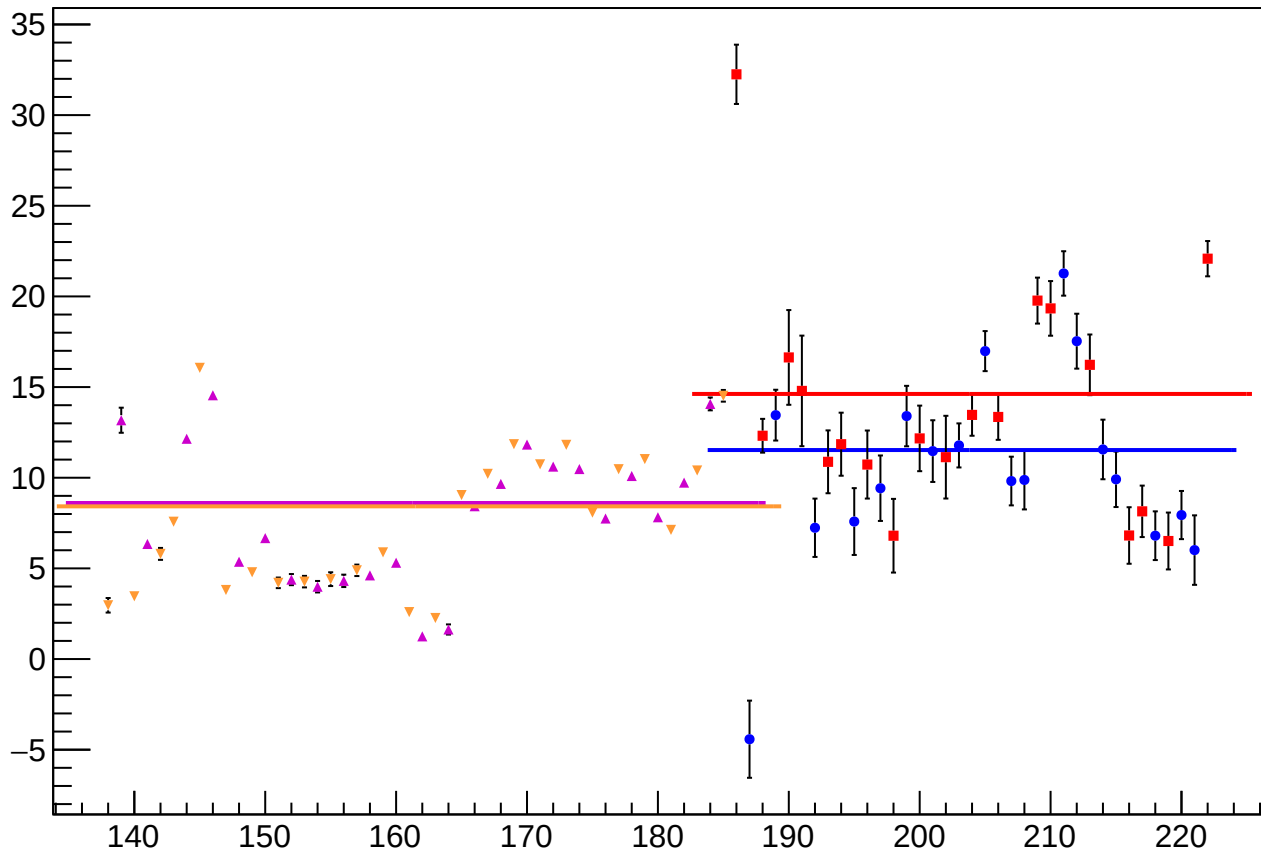
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.335 ± 0.198 $\chi^2/\text{NDF}: 1639.8/17$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.007 ± 0.185 $\chi^2/\text{NDF}: 8439.1/18$
 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: -31.831 ± 0.135 $\chi^2/\text{NDF}: 10375.4/36$
 In: -17.529 ± 0.050 $\chi^2/\text{NDF}: 24199.0/40$
 Out: -18.210 ± 0.049 $\chi^2/\text{NDF}: 38366.7/43$
 All: -17.874 ± 0.035 $\chi^2/\text{NDF}: 62660.2/84$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.527 ± 0.350 $\chi^2/\text{NDF}: 207.5/17$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 14.621 ± 0.340 $\chi^2/\text{NDF}: 314.1/18$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

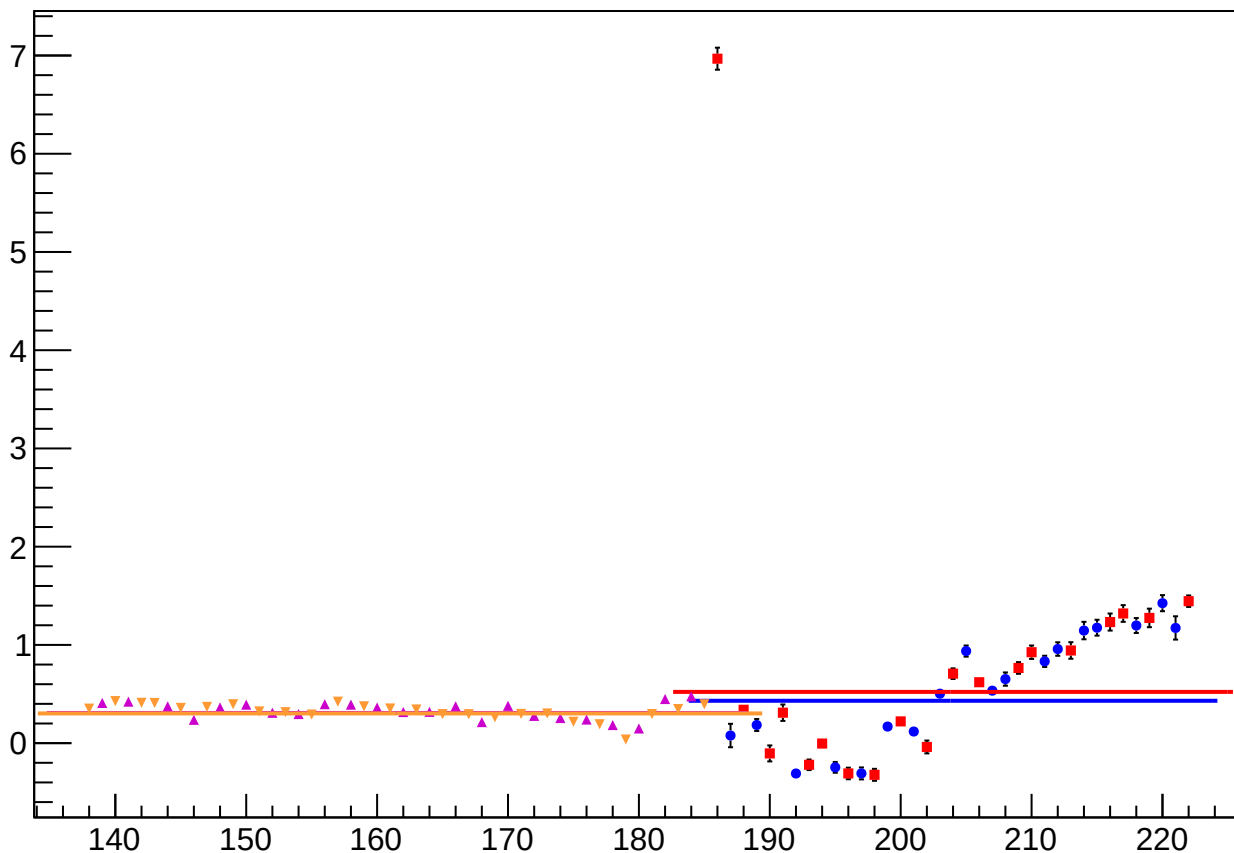
Right: 13.120 ± 0.244 $\chi^2/\text{NDF}: 561.7/36$

In: 8.656 ± 0.046 $\chi^2/\text{NDF}: 5780.0/40$

Out: 8.531 ± 0.045 $\chi^2/\text{NDF}: 7110.5/43$

All: 8.593 ± 0.032 $\chi^2/\text{NDF}: 12894.3/84$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.431+/-0.015 χ^2/NDF : 1249.6/17

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.522+/-0.014 χ^2/NDF : 4741.5/18

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

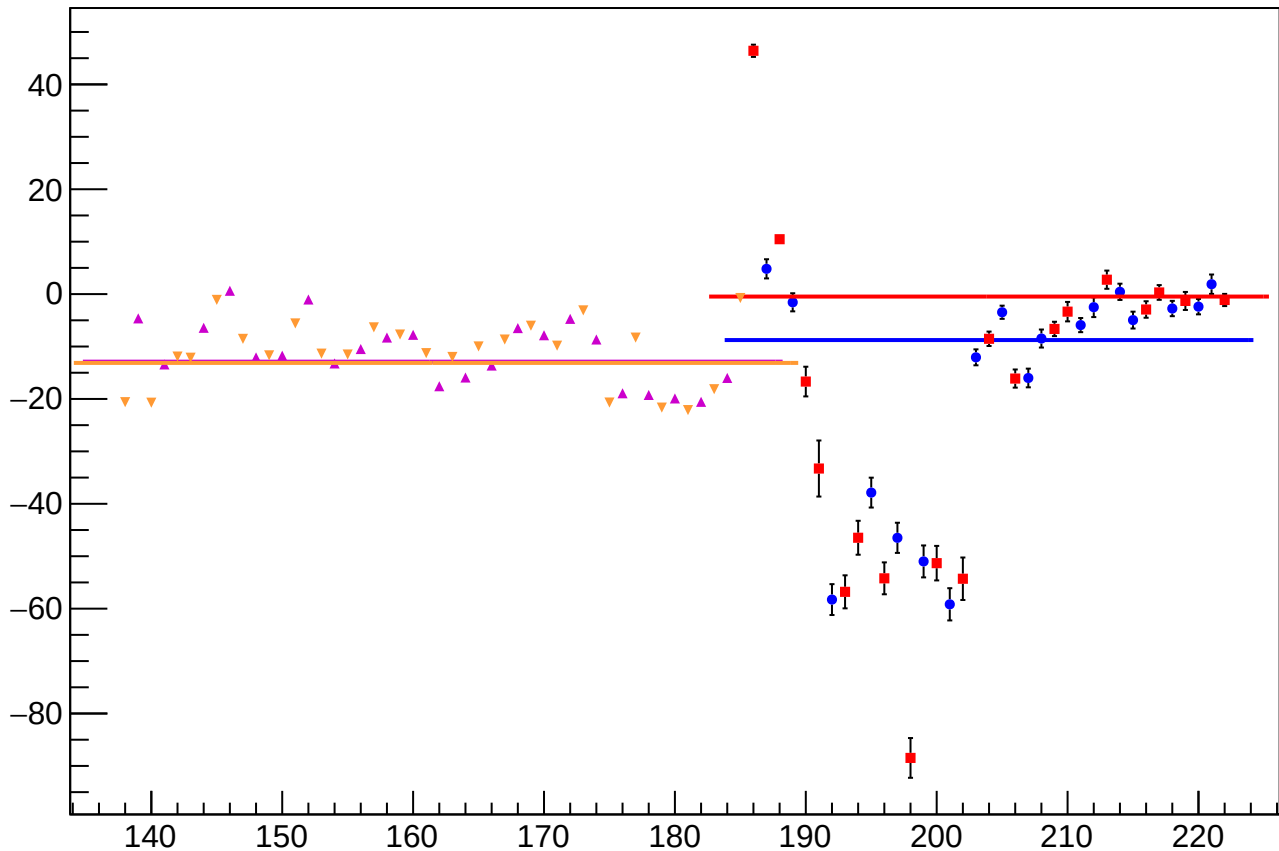
Right: 0.477+/-0.010 χ^2/NDF : 6010.7/36

In: 0.310+/-0.002 χ^2/NDF :3020.1/40

Out: 0.307+/-0.002 χ^2/NDF :6562.0/43

All: 0.308+/-0.001 χ^2/NDF : 9583.0/84

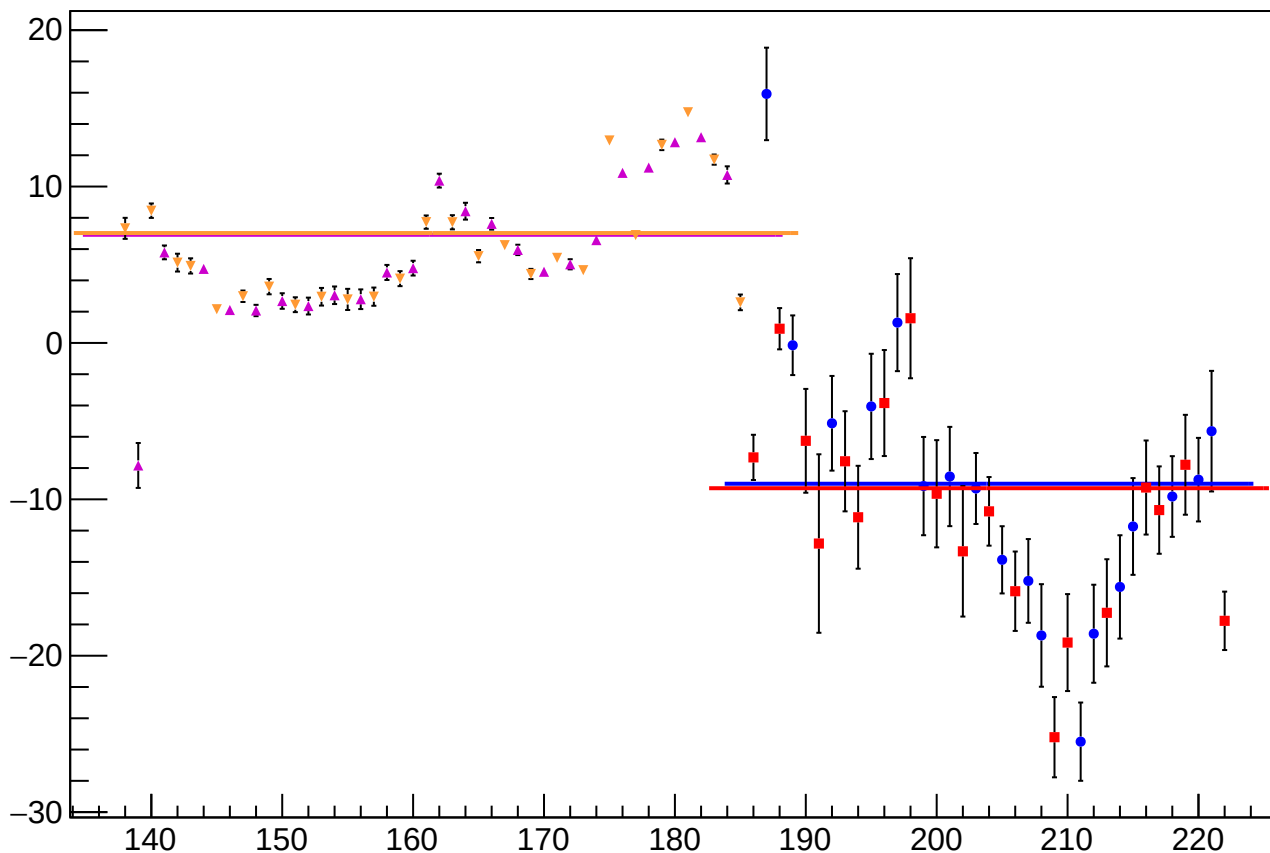
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.766 ± 0.416 χ^2/NDF : 1256.7/17
 Left Out: -13.125 ± 0.094 χ^2/NDF : 5977.6/24
 Right Out: -0.470 ± 0.390 χ^2/NDF : 3756.1/18
 Left In: -12.885 ± 0.095 χ^2/NDF : 4776.2/22

Left: -13.007 ± 0.067 χ^2/NDF : 10757.0/47
 Right: -4.350 ± 0.284 χ^2/NDF : 5224.6/36
 In: -12.681 ± 0.093 χ^2/NDF : 6126.1/40
 Out: -12.435 ± 0.091 χ^2/NDF : 10729.9/43
 All: -12.555 ± 0.065 χ^2/NDF : 16859.5/84

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.003 ± 0.652 χ^2/NDF : 185.1/17

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -9.289 ± 0.578 χ^2/NDF : 157.3/18

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

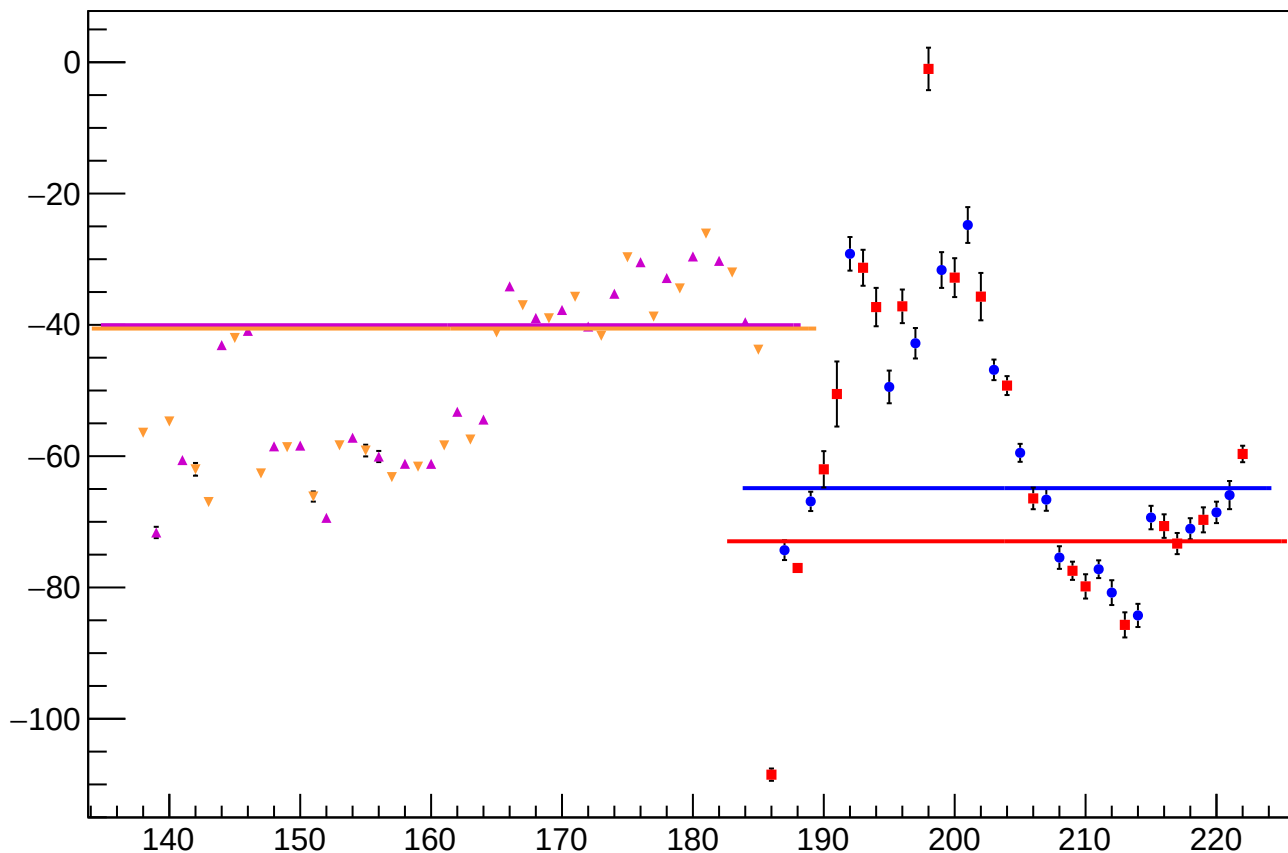
Right: -9.164 ± 0.433 χ^2/NDF : 342.5/36

In: 6.691 ± 0.077 χ^2/NDF : 3200.3/40

Out: 6.742 ± 0.076 χ^2/NDF : 3604.6/43

All: 6.717 ± 0.054 χ^2/NDF : 6805.1/84

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.871 ± 0.417 $\chi^2/\text{NDF}: 1217.0/17$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -72.965 ± 0.370 $\chi^2/\text{NDF}: 3341.9/18$
 Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

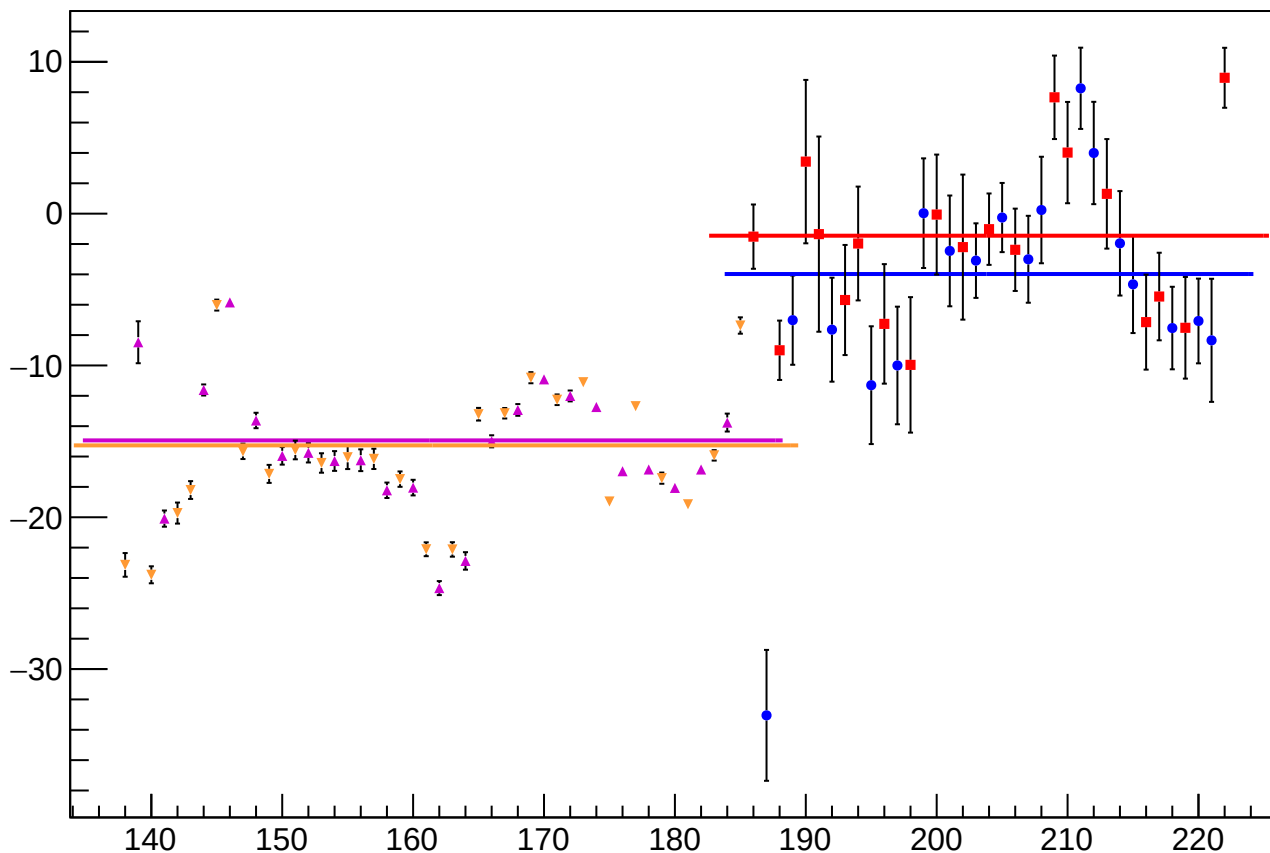
Right: -69.406 ± 0.277 $\chi^2/\text{NDF}: 4769.6/36$

In: -41.292 ± 0.093 $\chi^2/\text{NDF}: 18502.9/40$

Out: -42.559 ± 0.092 $\chi^2/\text{NDF}: 26187.2/43$

All: -41.935 ± 0.065 $\chi^2/\text{NDF}: 44784.0/84$

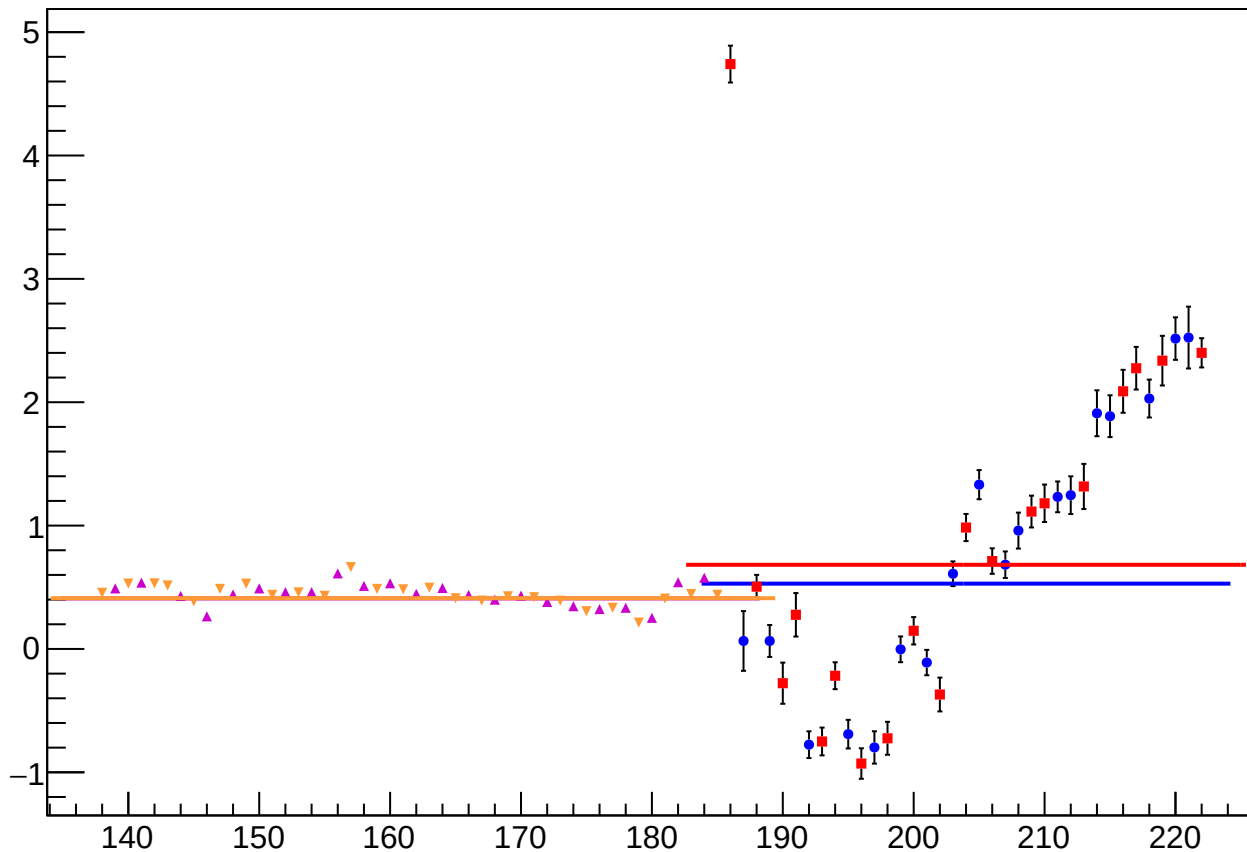
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.977 ± 0.738 $\chi^2/\text{NDF}: 90.4/17$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -1.453 ± 0.691 $\chi^2/\text{NDF}: 73.7/18$
 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: -2.631 ± 0.504 $\chi^2/\text{NDF}: 170.4/36$
 In: -14.787 ± 0.086 $\chi^2/\text{NDF}: 2507.5/40$
 Out: -15.055 ± 0.085 $\chi^2/\text{NDF}: 3063.1/43$
 All: -14.923 ± 0.061 $\chi^2/\text{NDF}: 5575.5/84$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.529 ± 0.031 $\chi^2/\text{NDF}: 962.0/17$

Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$

Right Out: 0.682 ± 0.030 $\chi^2/\text{NDF}: 1842.2/18$

Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$

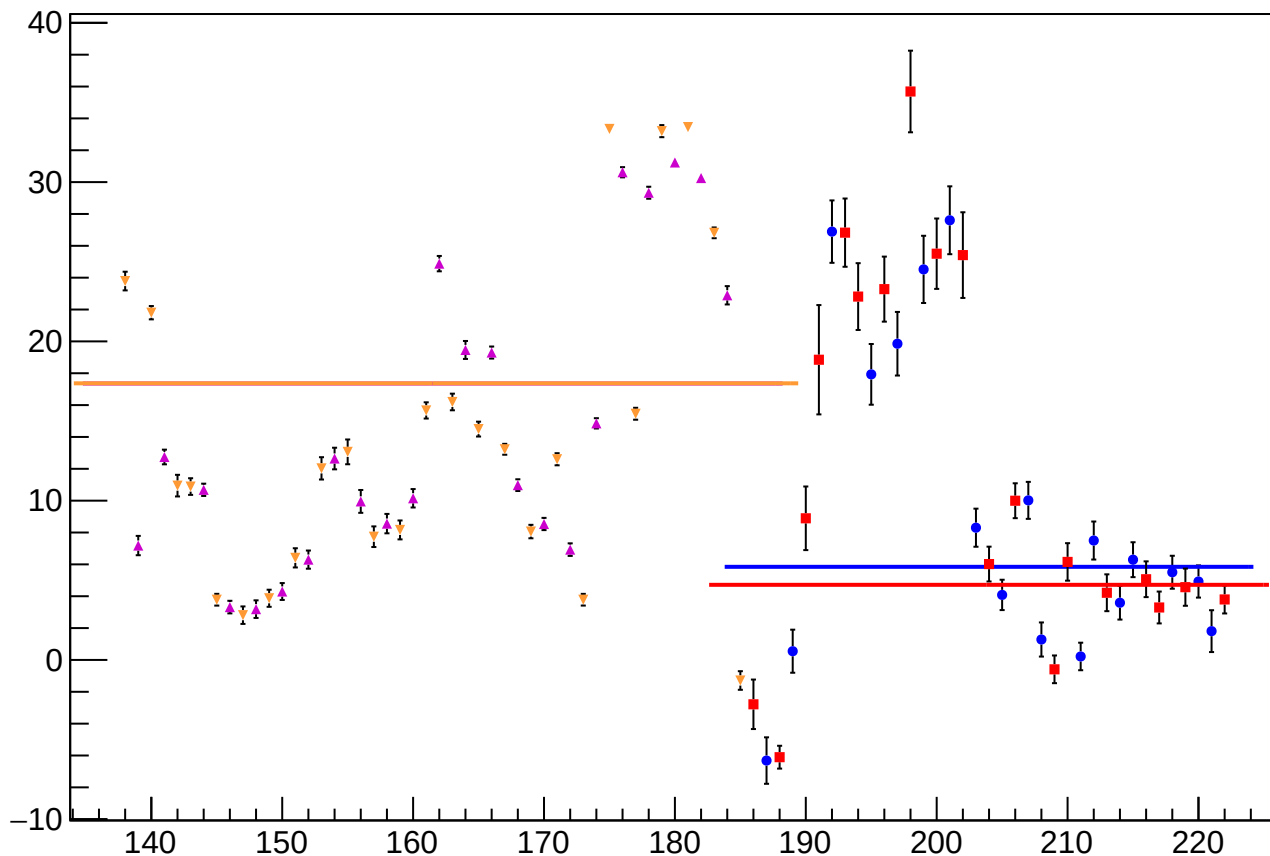
Right: 0.608 ± 0.022 $\chi^2/\text{NDF}: 2816.8/36$

In: 0.411 ± 0.004 $\chi^2/\text{NDF}: 1534.7/40$

Out: 0.416 ± 0.004 $\chi^2/\text{NDF}: 2351.0/43$

All: 0.414 ± 0.003 $\chi^2/\text{NDF}: 3886.4/84$

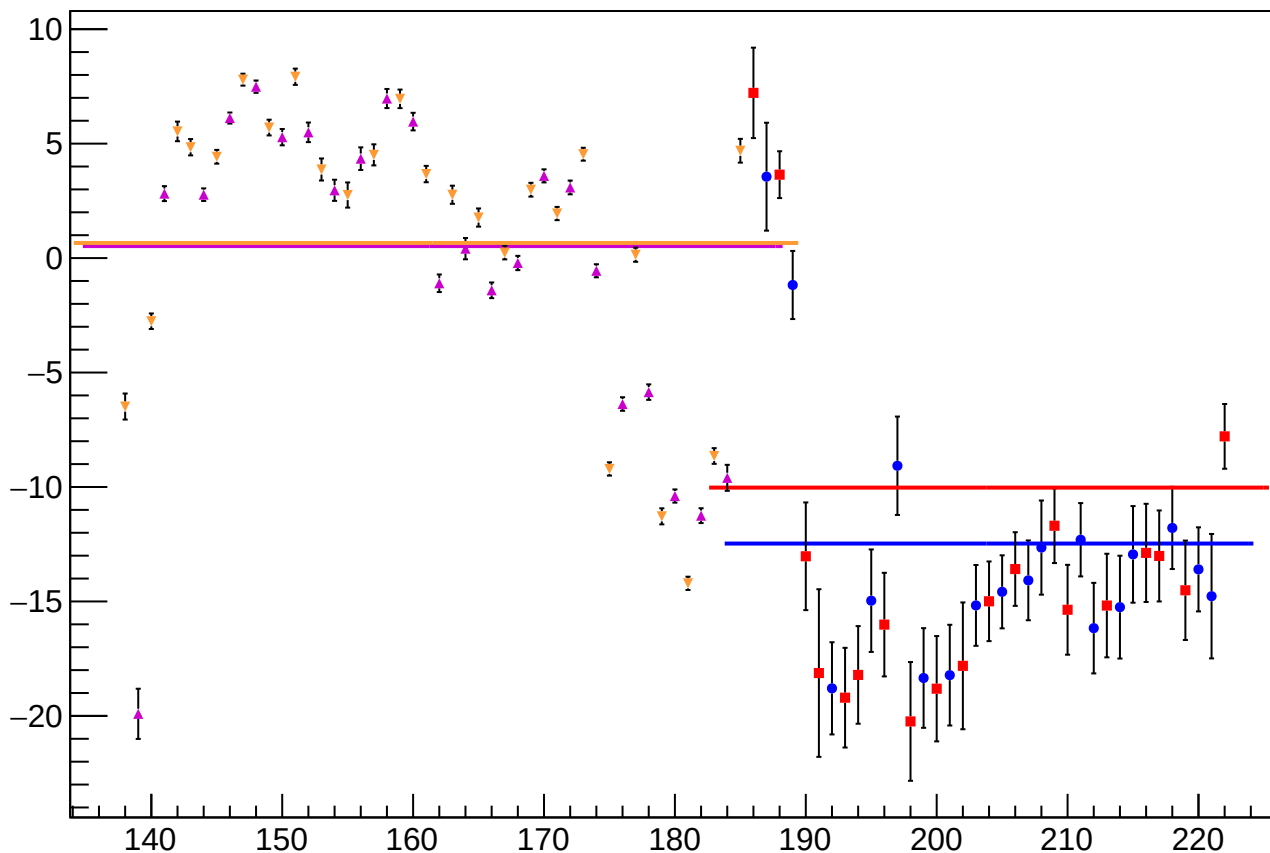
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.846 $\pm$ 0.290 χ^2 /NDF: 570.4/17
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 4.716 $\pm$ 0.287 χ^2 /NDF: 896.8/18
 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: 5.276 $\pm$ 0.204 χ^2 /NDF: 1474.9/36
 In: 16.364 $\pm$ 0.085 χ^2 /NDF:14759.1/40
 Out: 16.299 $\pm$ 0.083 χ^2 /NDF:19016.4/43
 All: 16.331 $\pm$ 0.059 χ^2 /NDF: 33775.7/84

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.471 ± 0.456 χ^2/NDF : 142.8/17

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.026 ± 0.435 χ^2/NDF : 376.3/18

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

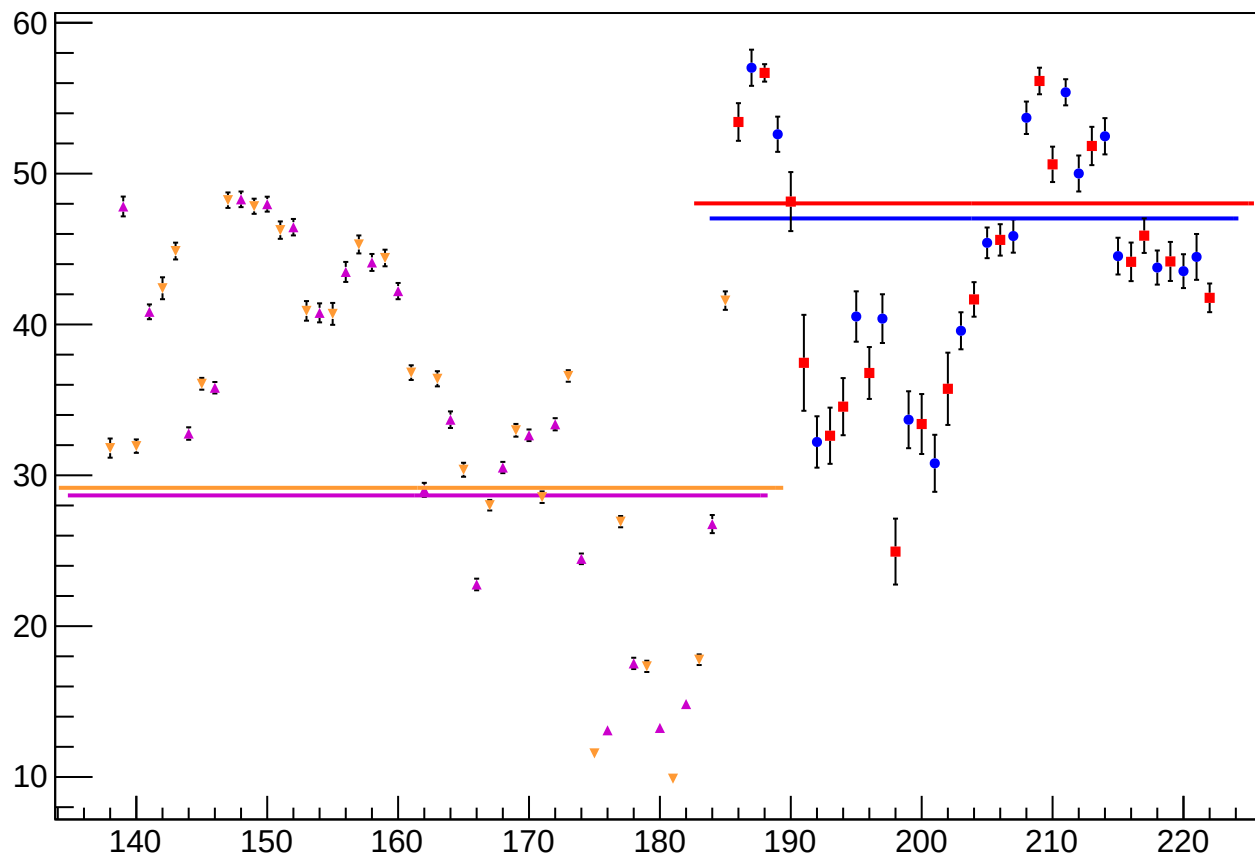
Right: -11.189 ± 0.315 χ^2/NDF : 534.2/36

In: 0.218 ± 0.070 χ^2/NDF : 7664.3/40

Out: 0.395 ± 0.068 χ^2/NDF : 9519.5/43

All: 0.309 ± 0.049 χ^2/NDF : 17187.1/84

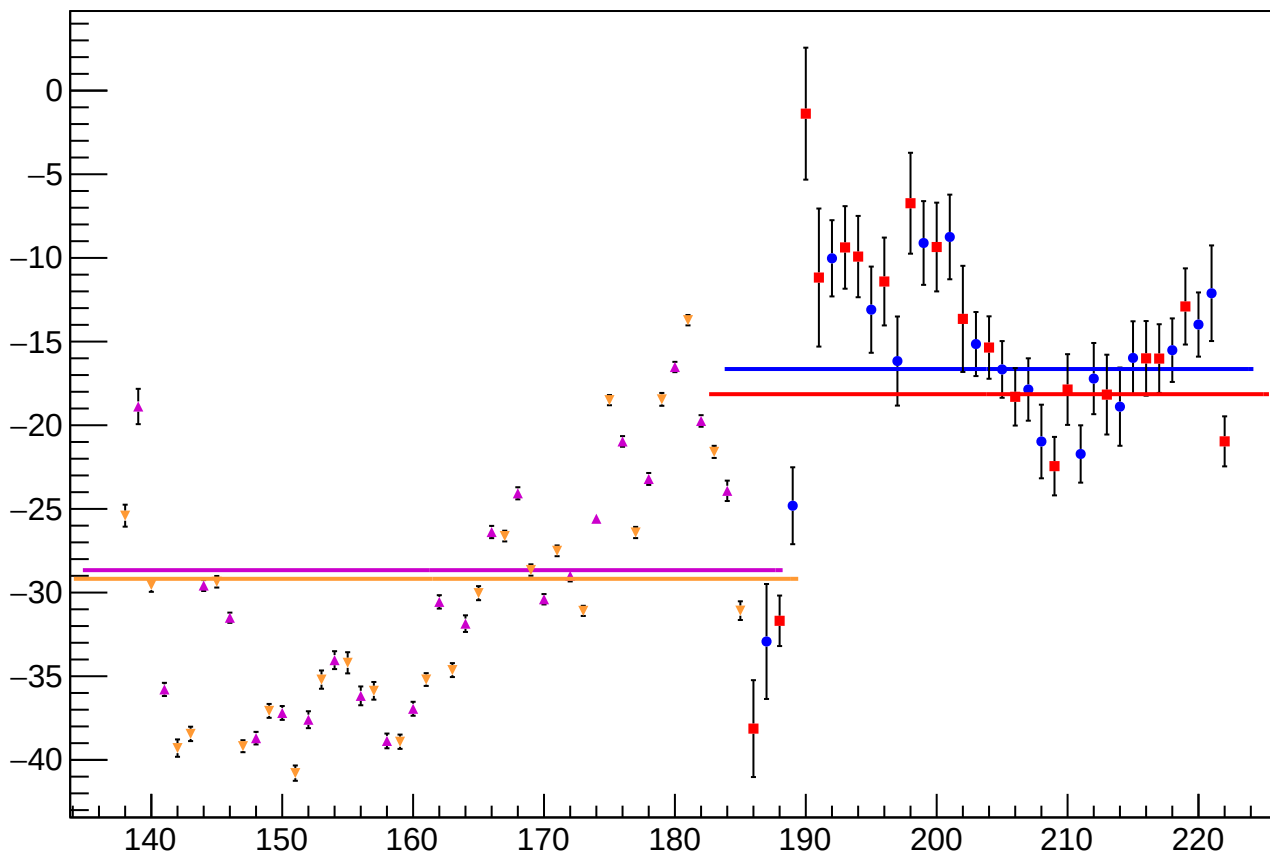
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.029 $\pm$ 0.291 χ^2 /NDF: 547.8/17
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 48.027 $\pm$ 0.278 χ^2 /NDF: 807.0/18
 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: 47.550 $\pm$ 0.201 χ^2 /NDF: 1361.0/36
 In: 30.241 $\pm$ 0.085 χ^2 /NDF:21033.7/40
 Out: 30.879 $\pm$ 0.084 χ^2 /NDF:23962.0/43
 All: 30.566 $\pm$ 0.060 χ^2 /NDF: 45024.2/84

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.640 ± 0.512 $\chi^2/\text{NDF}: 83.8/17$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.143 ± 0.504 $\chi^2/\text{NDF}: 226.3/18$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

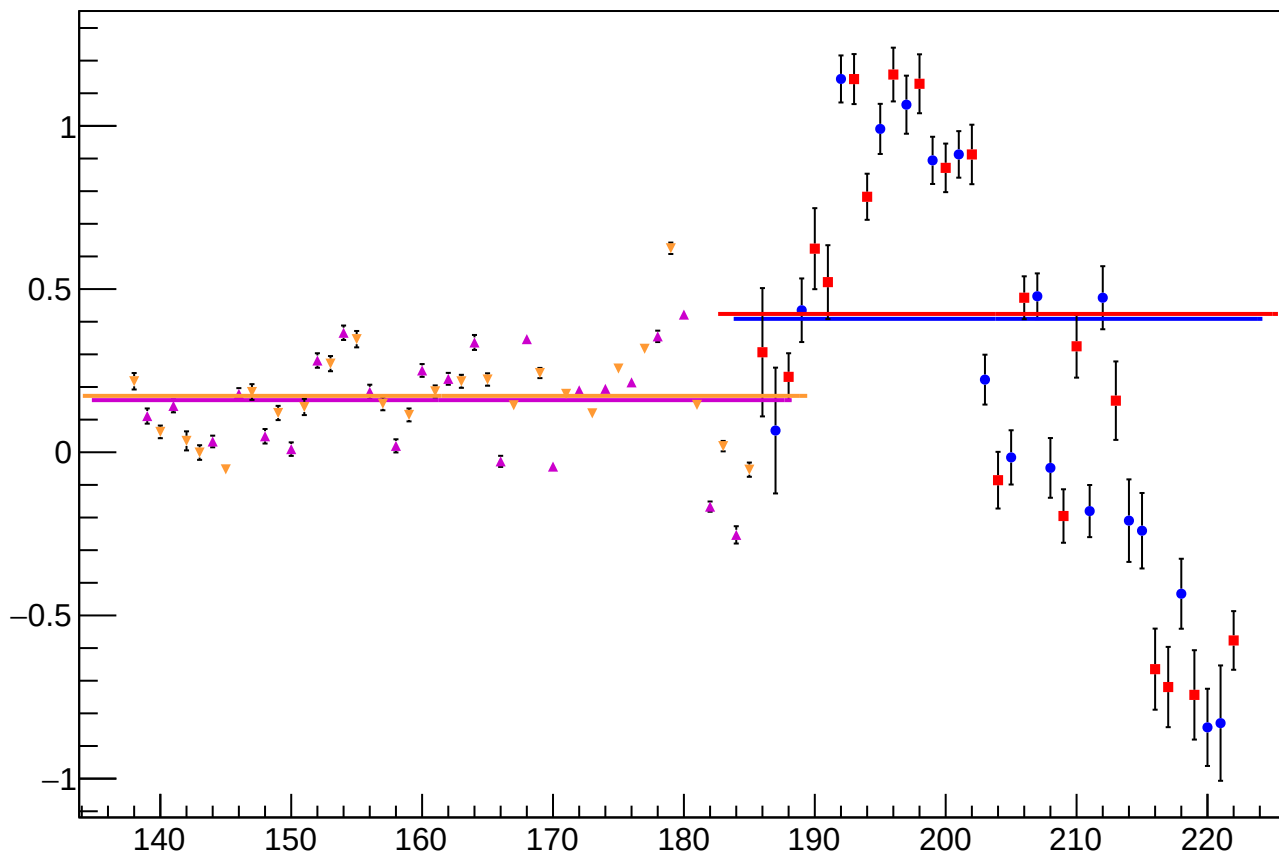
Right: -17.404 ± 0.359 $\chi^2/\text{NDF}: 314.5/36$

In: -28.375 ± 0.079 $\chi^2/\text{NDF}: 7292.1/40$

Out: -28.918 ± 0.077 $\chi^2/\text{NDF}: 9776.6/43$

All: -28.652 ± 0.055 $\chi^2/\text{NDF}: 17092.9/84$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.021 χ^2 /NDF: 705.0/17

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF: 1478.5/24

Right Out: 0.424 $\pm$ 0.021 χ^2 /NDF: 788.0/18

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF: 2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

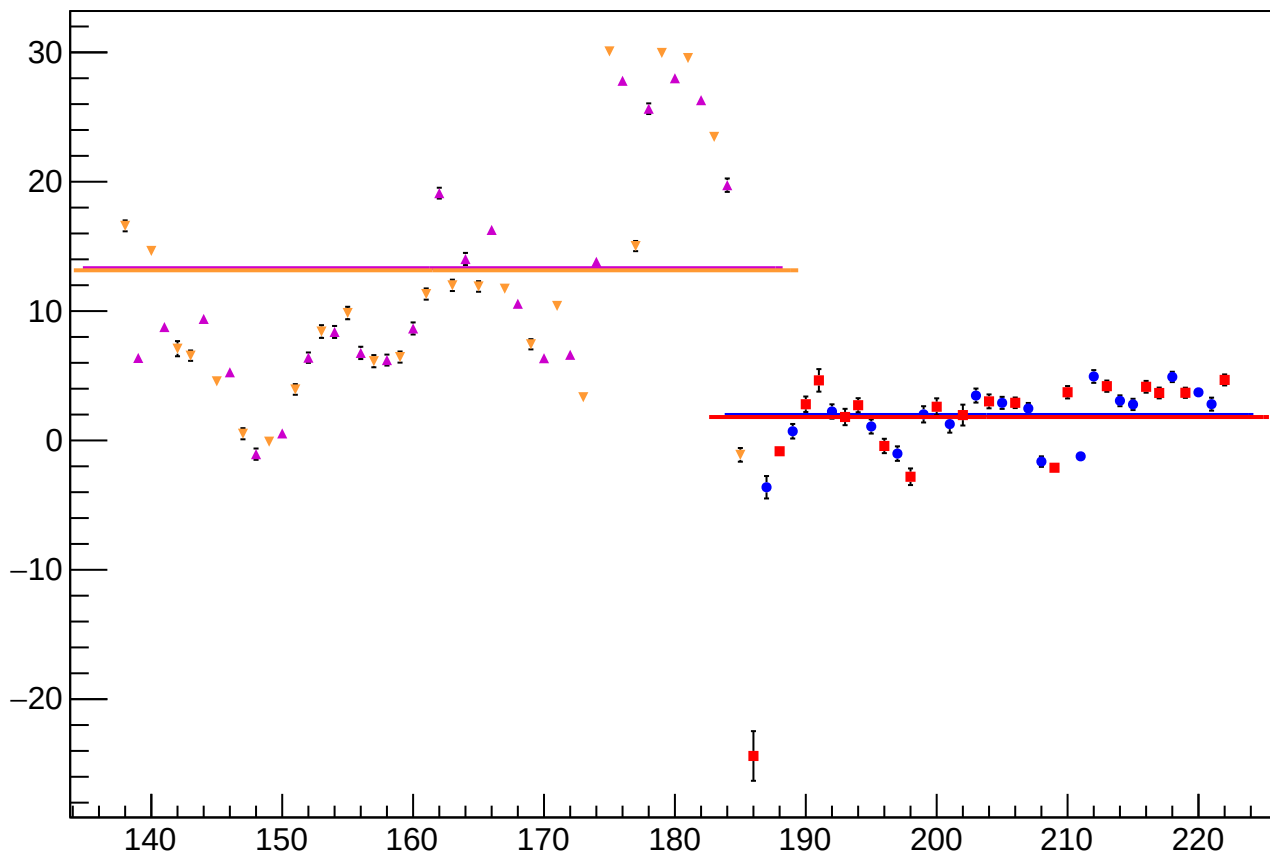
Right: 0.416 $\pm$ 0.015 χ^2 /NDF: 1493.2/36

In: 0.167 $\pm$ 0.004 χ^2 /NDF: 2897.8/40

Out: 0.180 $\pm$ 0.004 χ^2 /NDF: 2407.3/43

All: 0.174 $\pm$ 0.003 χ^2 /NDF: 5311.8/84

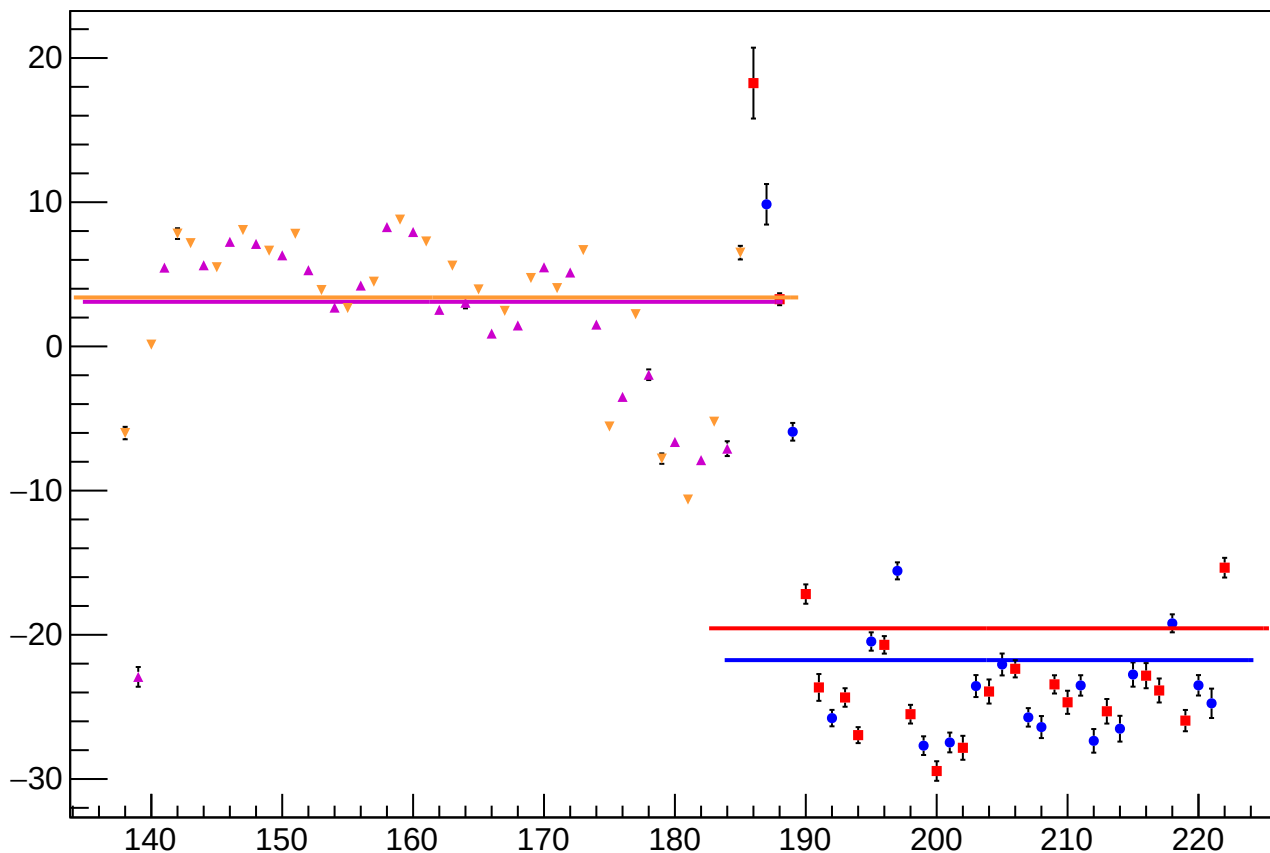
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.969 ± 0.114 $\chi^2/\text{NDF}: 364.3/17$
 Left Out: 13.153 ± 0.075 $\chi^2/\text{NDF}: 17079.7/24$
 Right Out: 1.810 ± 0.110 $\chi^2/\text{NDF}: 667.6/18$
 Left In: 13.315 ± 0.077 $\chi^2/\text{NDF}: 13977.7/22$

Left: 13.232 ± 0.054 $\chi^2/\text{NDF}: 31059.6/47$
 Right: 1.887 ± 0.079 $\chi^2/\text{NDF}: 1032.8/36$
 In: 9.744 ± 0.064 $\chi^2/\text{NDF}: 21157.1/40$
 Out: 9.534 ± 0.062 $\chi^2/\text{NDF}: 25002.0/43$
 All: 9.636 ± 0.045 $\chi^2/\text{NDF}: 46164.6/84$

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.756 ± 0.168 $\chi^2/\text{NDF}: 1683.0/17$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.550 ± 0.158 $\chi^2/\text{NDF}: 4264.9/18$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

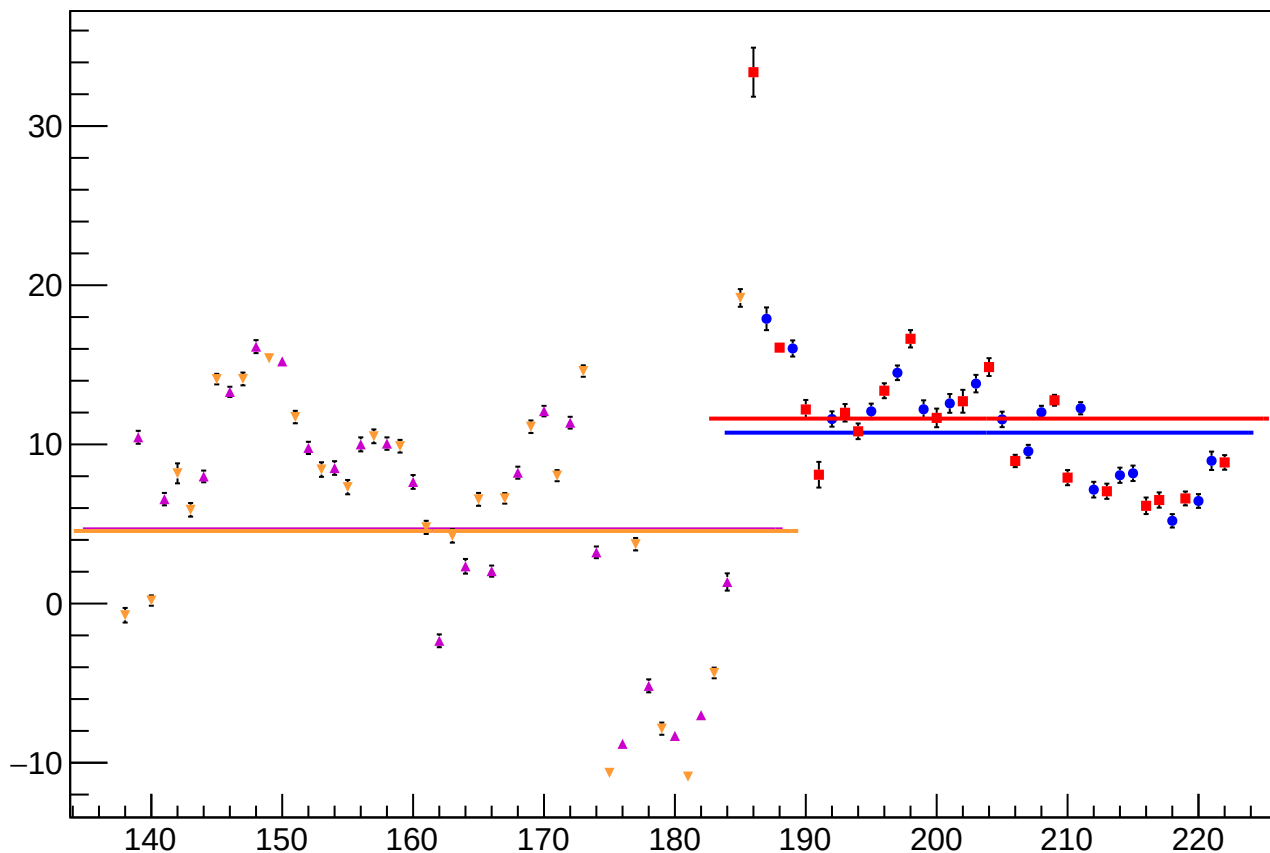
Right: -20.583 ± 0.115 $\chi^2/\text{NDF}: 6039.5/36$

In: 0.238 ± 0.057 $\chi^2/\text{NDF}: 28119.5/40$

Out: 0.632 ± 0.055 $\chi^2/\text{NDF}: 30975.2/43$

All: 0.443 ± 0.039 $\chi^2/\text{NDF}: 59119.6/84$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.736 ± 0.113 χ^2/NDF : 764.2/17

Left Out: 4.561 ± 0.075 χ^2/NDF : 13592.1/24

Right Out: 11.621 ± 0.106 χ^2/NDF : 1339.8/18

Left In: 4.662 ± 0.077 χ^2/NDF : 11281.5/22

Left: 4.610 ± 0.054 χ^2/NDF : 24874.4/47

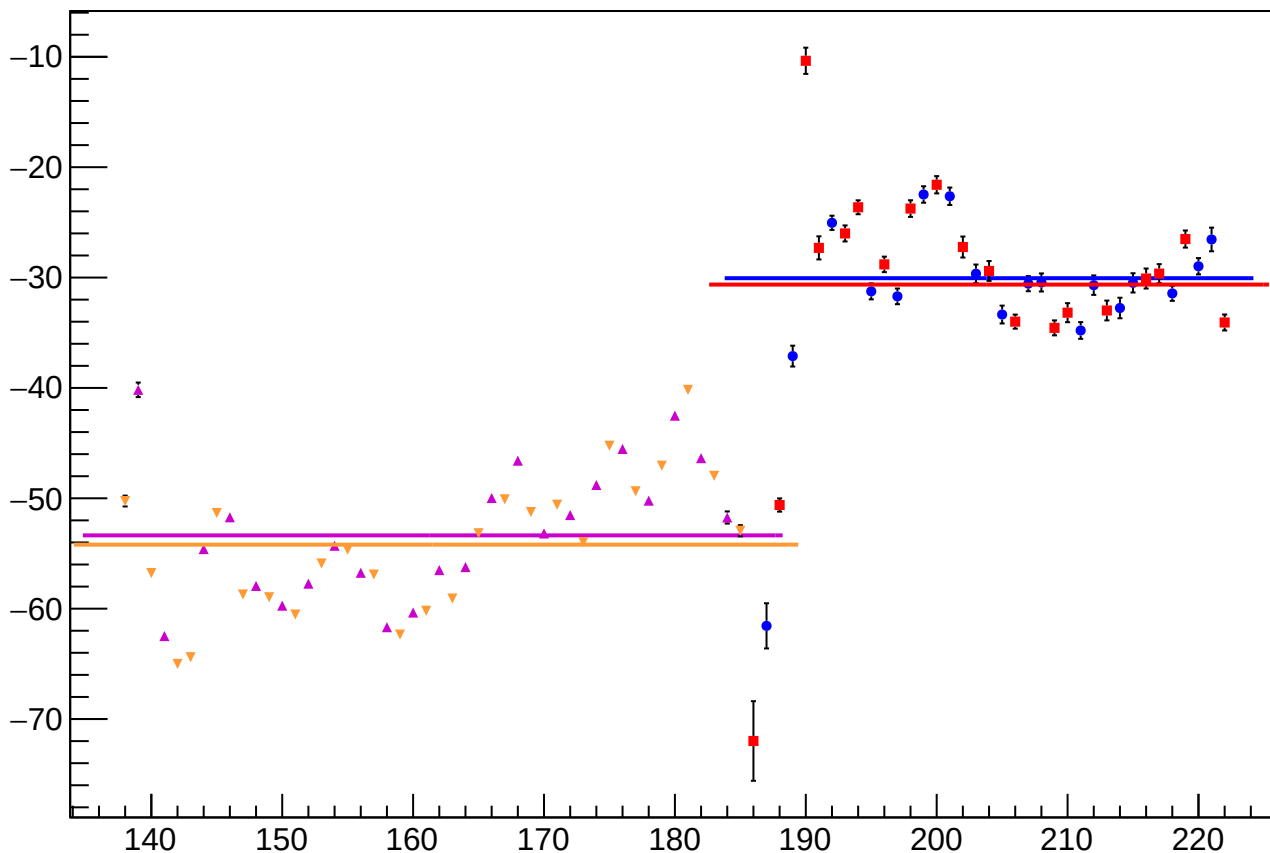
Right: 11.207 ± 0.077 χ^2/NDF : 2136.7/36

In: 6.583 ± 0.064 χ^2/NDF : 14023.3/40

Out: 6.937 ± 0.061 χ^2/NDF : 17883.9/43

All: 6.766 ± 0.044 χ^2/NDF : 31923.3/84

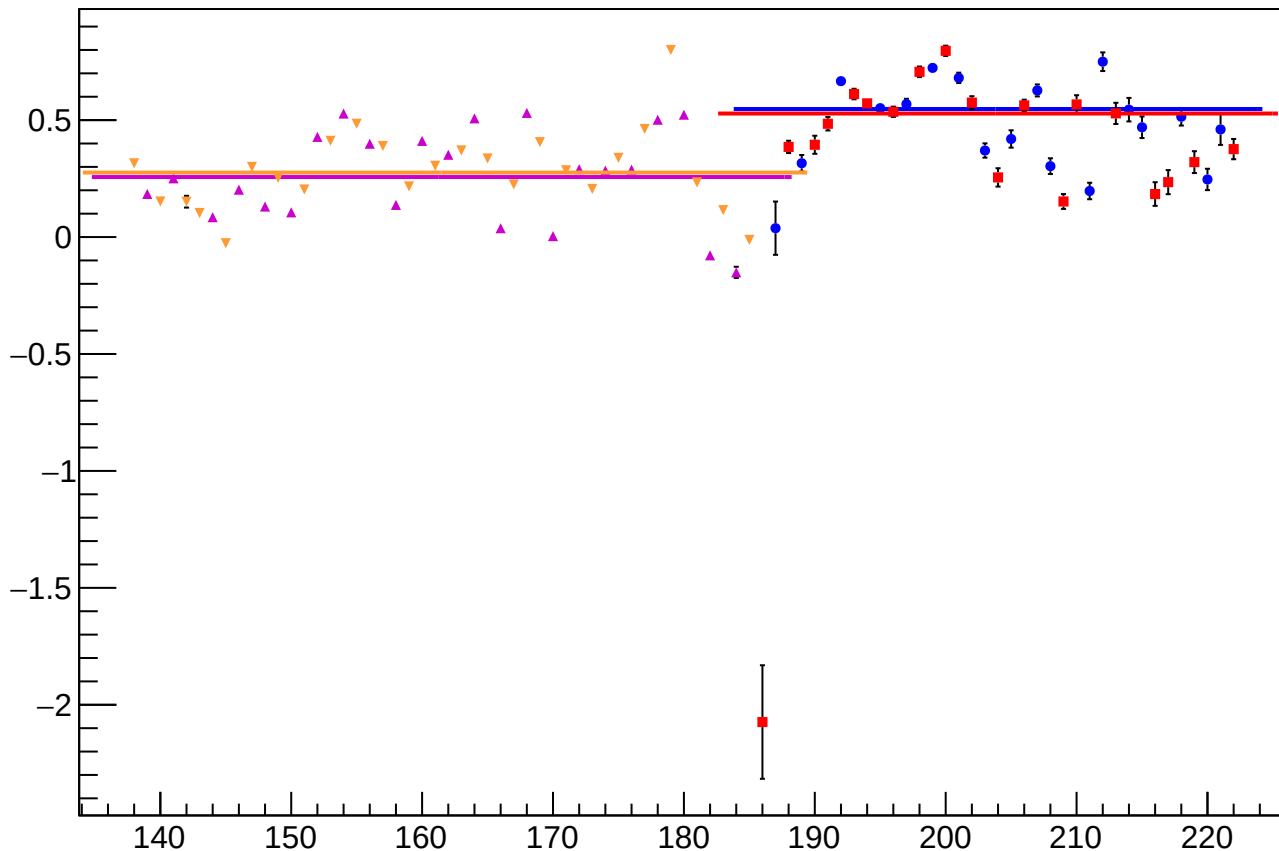
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.059 ± 0.189 $\chi^2/\text{NDF}: 636.7/17$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -30.636 ± 0.183 $\chi^2/\text{NDF}: 2076.6/18$
 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: -30.357 ± 0.131 $\chi^2/\text{NDF}: 2718.2/36$
 In: -50.651 ± 0.064 $\chi^2/\text{NDF}: 20969.9/40$
 Out: -51.445 ± 0.062 $\chi^2/\text{NDF}: 25251.5/43$
 All: -51.061 ± 0.045 $\chi^2/\text{NDF}: 46299.9/84$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.548 $\pm$ 0.007 χ^2 /NDF: 482.3/17

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.528 $\pm$ 0.007 χ^2 /NDF: 694.7/18

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

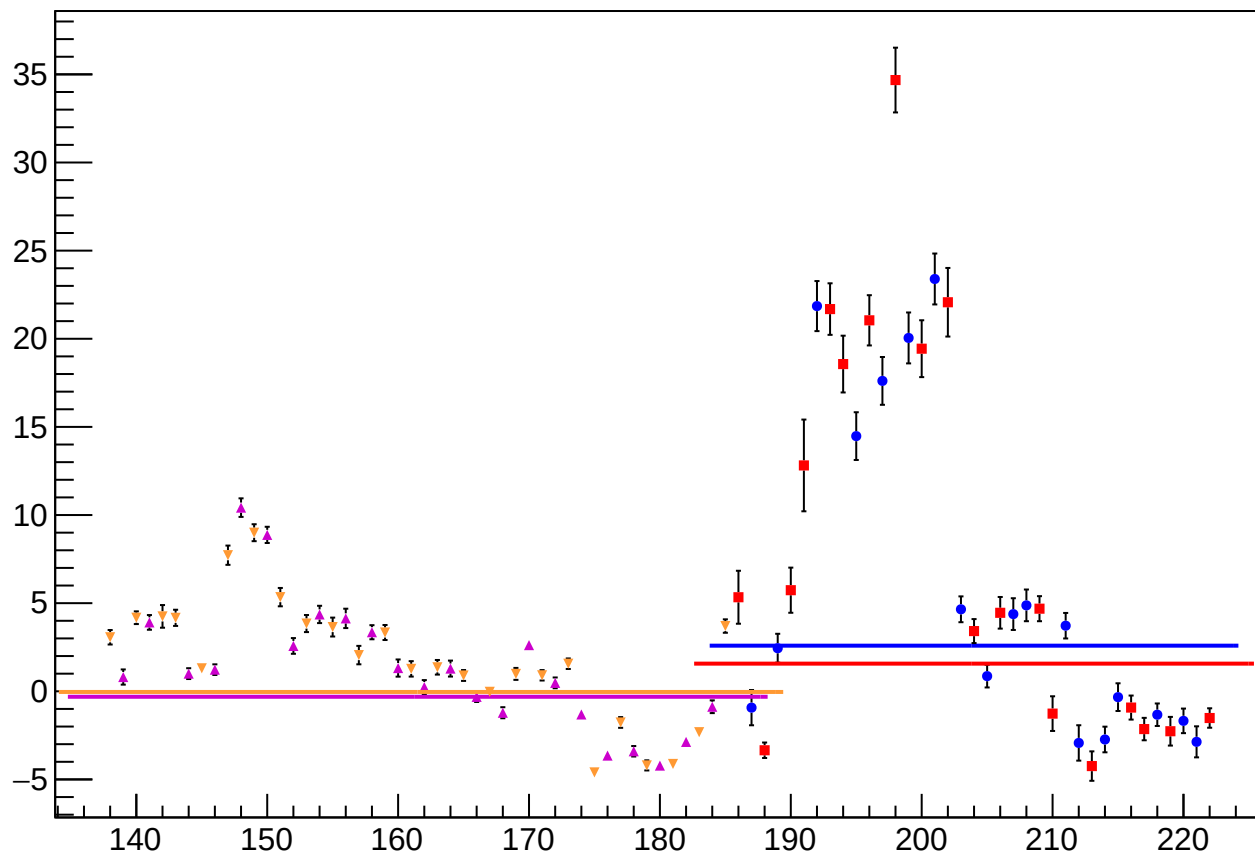
Right: 0.537 $\pm$ 0.005 χ^2 /NDF: 1180.9/36

In: 0.303 $\pm$ 0.003 χ^2 /NDF:5492.5/40

Out: 0.319 $\pm$ 0.003 χ^2 /NDF:4477.5/43

All: 0.311 $\pm$ 0.002 χ^2 /NDF: 9986.2/84

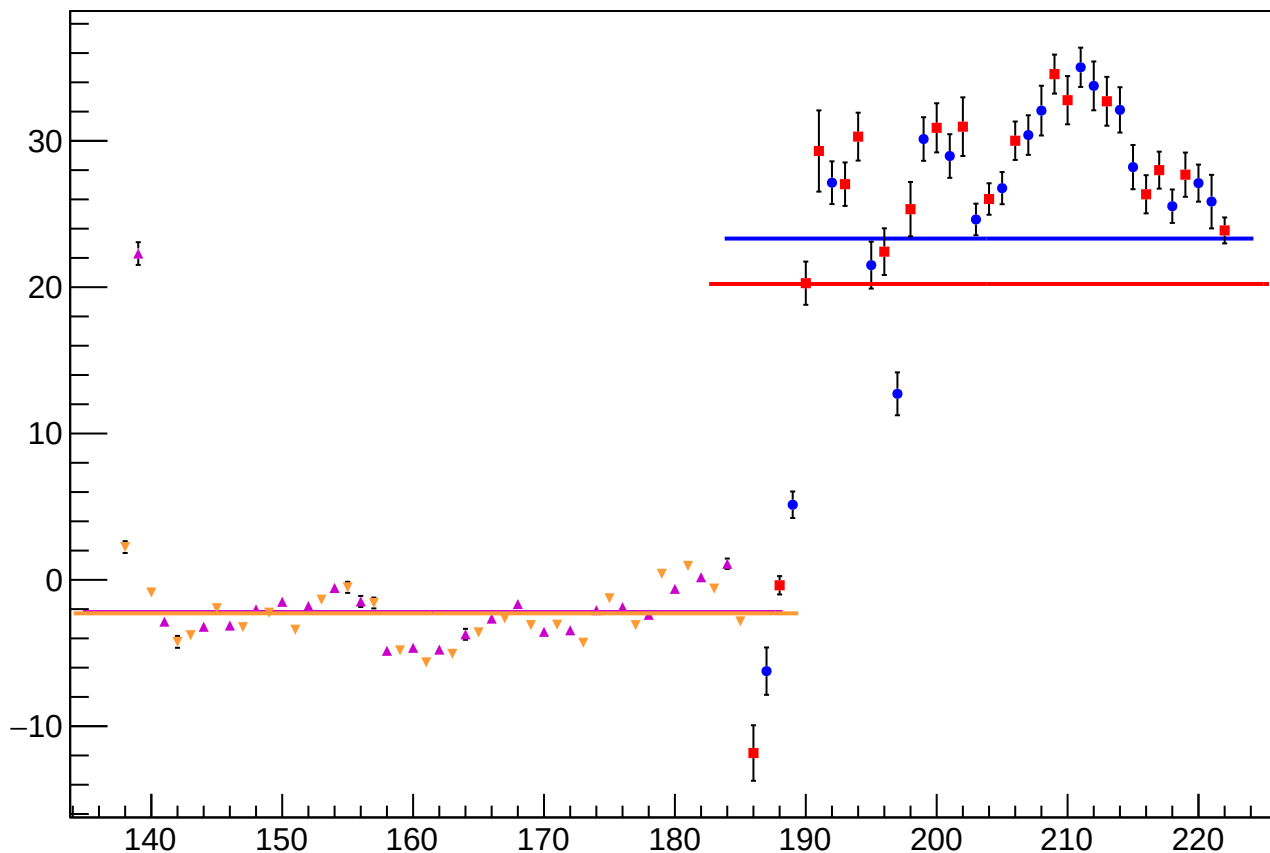
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.589+/-0.204 χ^2/NDF : 989.0/17
 Left Out: -0.037+/-0.066 χ^2/NDF : 2637.7/24
 Right Out: 1.569+/-0.196 χ^2/NDF : 1401.5/18
 Left In: -0.310+/-0.067 χ^2/NDF : 2250.5/22

Left: -0.171+/-0.047 χ^2/NDF : 4896.5/47
 Right: 2.059+/-0.141 χ^2/NDF : 2403.4/36
 In: -0.026+/-0.064 χ^2/NDF : 3421.3/40
 Out: 0.126+/-0.063 χ^2/NDF : 4099.3/43
 All: 0.052+/-0.045 χ^2/NDF : 7523.5/84

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 23.323 ± 0.318 $\chi^2/\text{NDF}: 1071.0/17$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 20.221 ± 0.299 $\chi^2/\text{NDF}: 1925.4/18$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

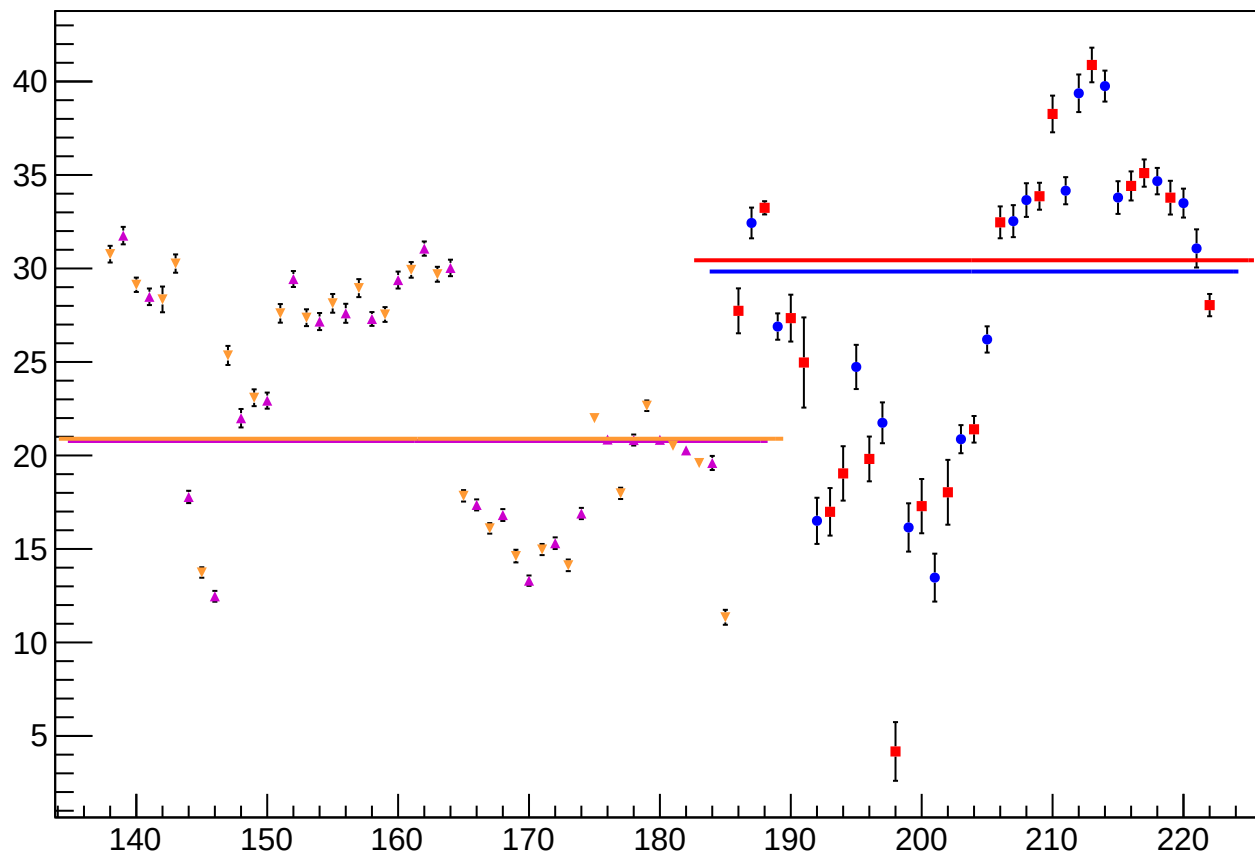
Right: 21.676 ± 0.218 $\chi^2/\text{NDF}: 3046.8/36$

In: -1.456 ± 0.054 $\chi^2/\text{NDF}: 8983.5/40$

Out: -1.574 ± 0.053 $\chi^2/\text{NDF}: 8545.8/43$

All: -1.516 ± 0.038 $\chi^2/\text{NDF}: 17531.7/84$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.837 $\pm$ 0.206 χ^2 /NDF: 1050.0/17

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 30.438 $\pm$ 0.190 χ^2 /NDF: 1222.6/18

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

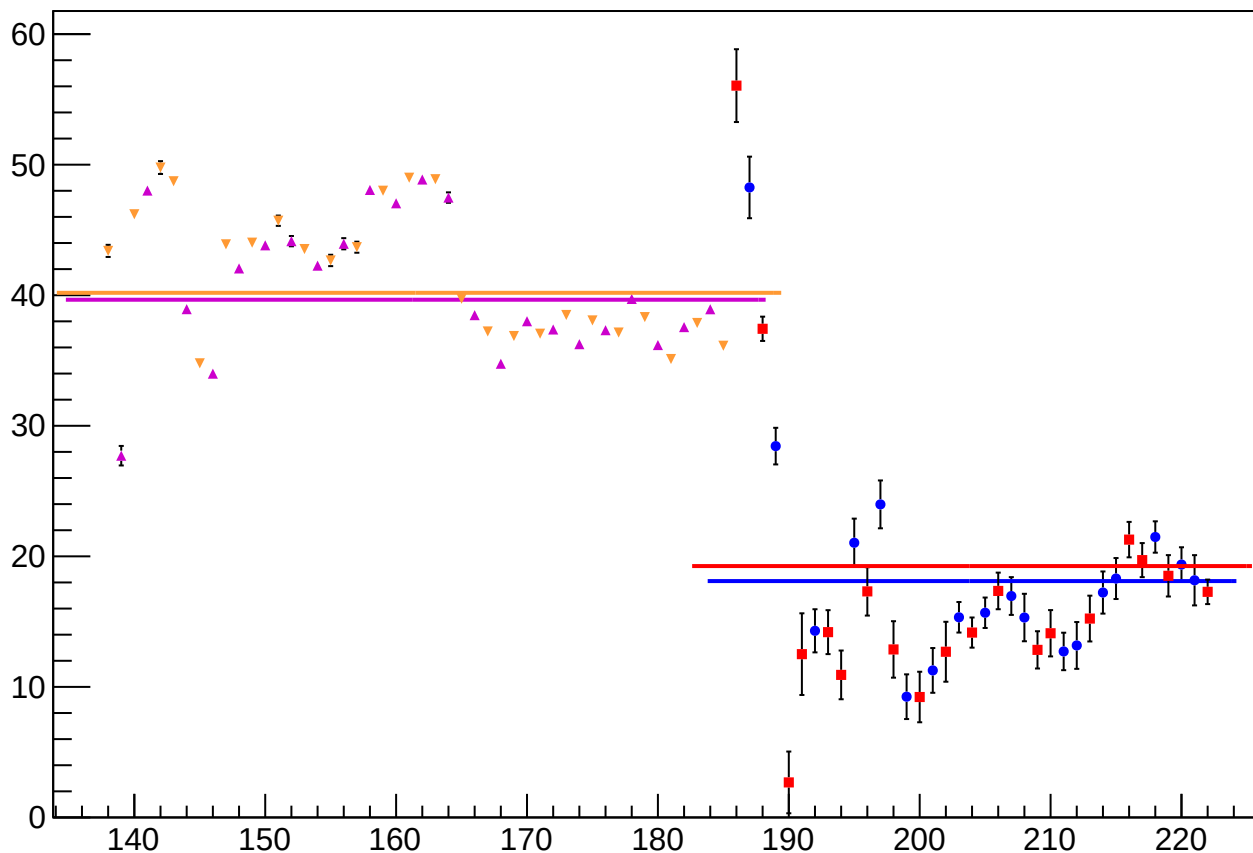
Right: 30.161 $\pm$ 0.140 χ^2 /NDF: 2277.2/36

In: 21.655 $\pm$ 0.064 χ^2 /NDF:8727.9/40

Out: 21.937 $\pm$ 0.063 χ^2 /NDF:10114.4/43

All: 21.798 $\pm$ 0.045 χ^2 /NDF: 18852.1/84

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.106 $\pm$ 0.360 χ^2 /NDF: 322.4/17

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.255 $\pm$ 0.349 χ^2 /NDF: 745.8/18

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

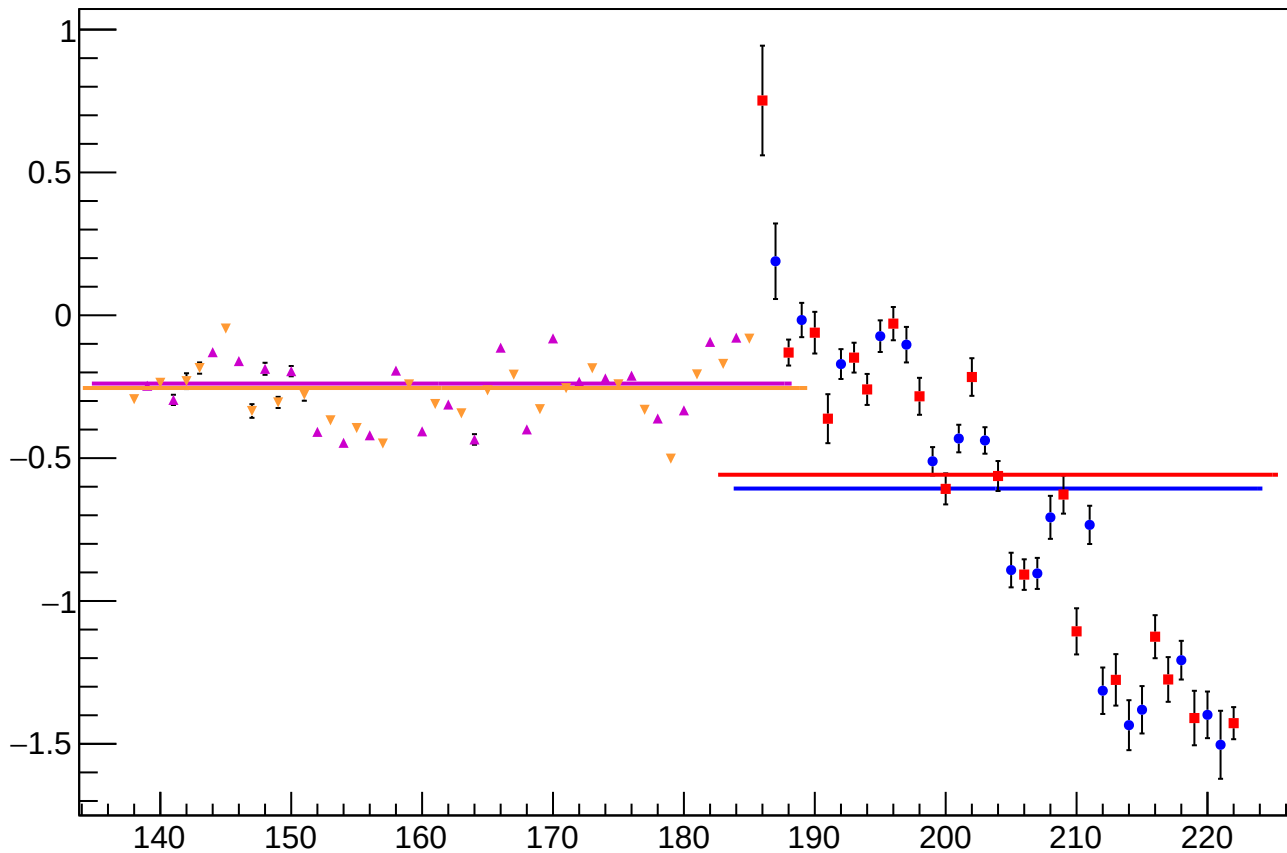
Right: 18.699 $\pm$ 0.251 χ^2 /NDF: 1073.4/36

In: 39.047 $\pm$ 0.061 χ^2 /NDF: 9093.9/40

Out: 39.577 $\pm$ 0.060 χ^2 /NDF: 10176.0/43

All: 39.316 $\pm$ 0.042 χ^2 /NDF: 19308.8/84

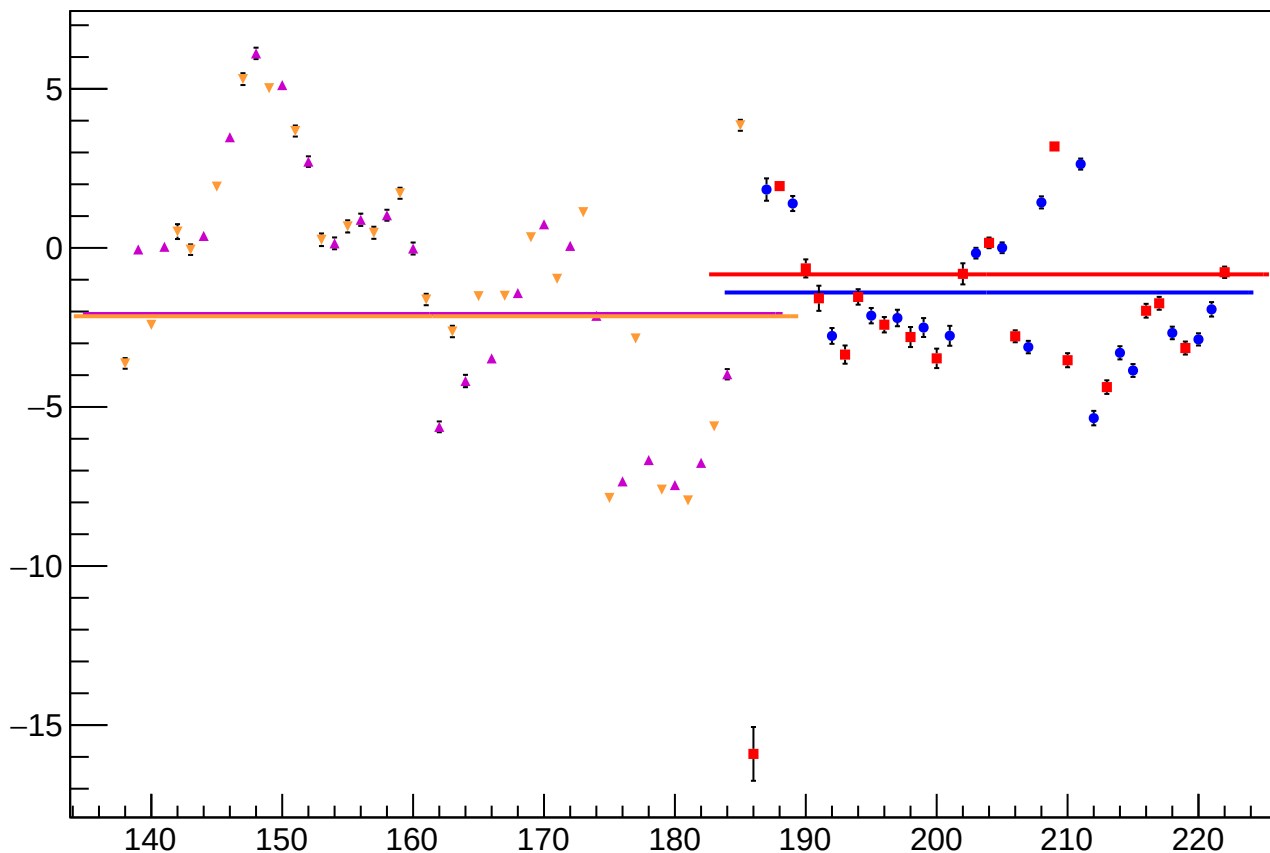
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.606 ± 0.015 χ^2/NDF : 930.6/17
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.558 ± 0.015 χ^2/NDF : 1020.3/18
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.582 ± 0.010 χ^2/NDF : 1956.2/36
 In: -0.251 ± 0.003 χ^2/NDF : 3263.9/40
 Out: -0.265 ± 0.003 χ^2/NDF : 2852.5/43
 All: -0.258 ± 0.002 χ^2/NDF : 6128.6/84

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

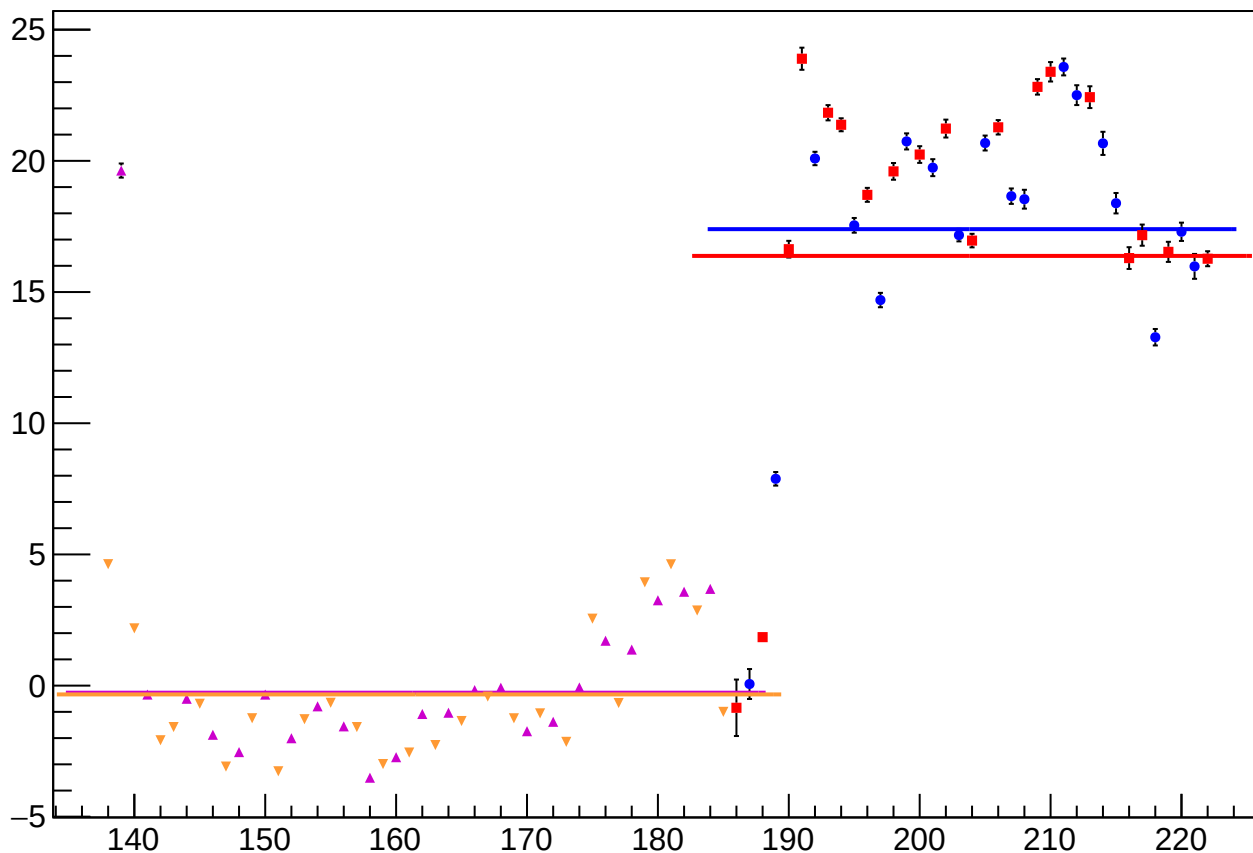


Right In: -1.401 ± 0.051 χ^2/NDF : 1905.7/17
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.832 ± 0.048 χ^2/NDF : 2595.7/18
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -1.105 ± 0.035 χ^2/NDF : 4567.6/36
 In: -1.936 ± 0.023 χ^2/NDF : 25293.1/40
 Out: -1.861 ± 0.023 χ^2/NDF : 27709.5/43

All: -1.897 ± 0.016 χ^2/NDF : 53008.0/84

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.397 ± 0.075 $\chi^2/\text{NDF}: 3607.5/17$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 16.377 ± 0.069 $\chi^2/\text{NDF}: 11338.3/18$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

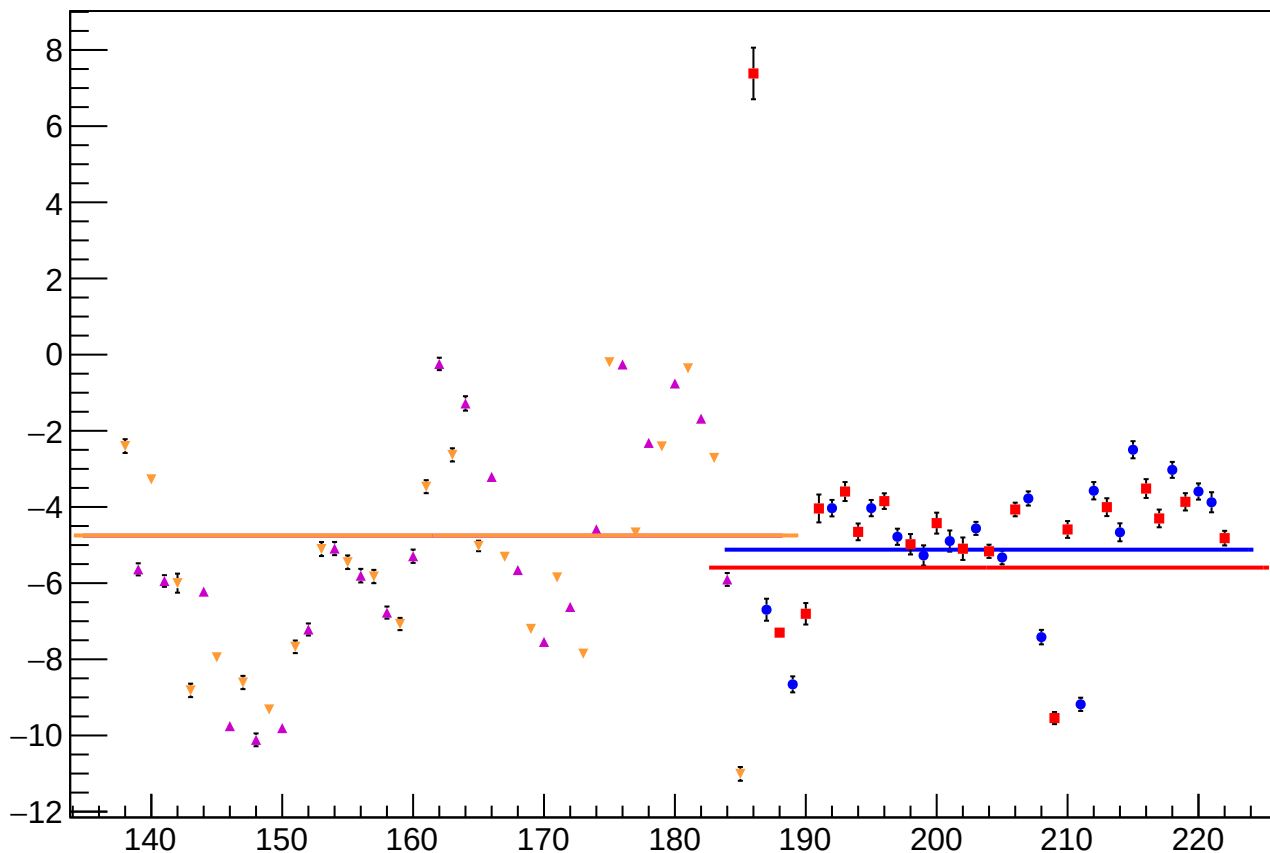
Right: 16.849 ± 0.051 $\chi^2/\text{NDF}: 15046.3/36$

In: 1.023 ± 0.020 $\chi^2/\text{NDF}: 68955.9/40$

Out: 1.025 ± 0.020 $\chi^2/\text{NDF}: 77562.6/43$

All: 1.024 ± 0.014 $\chi^2/\text{NDF}: 146518.5/84$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

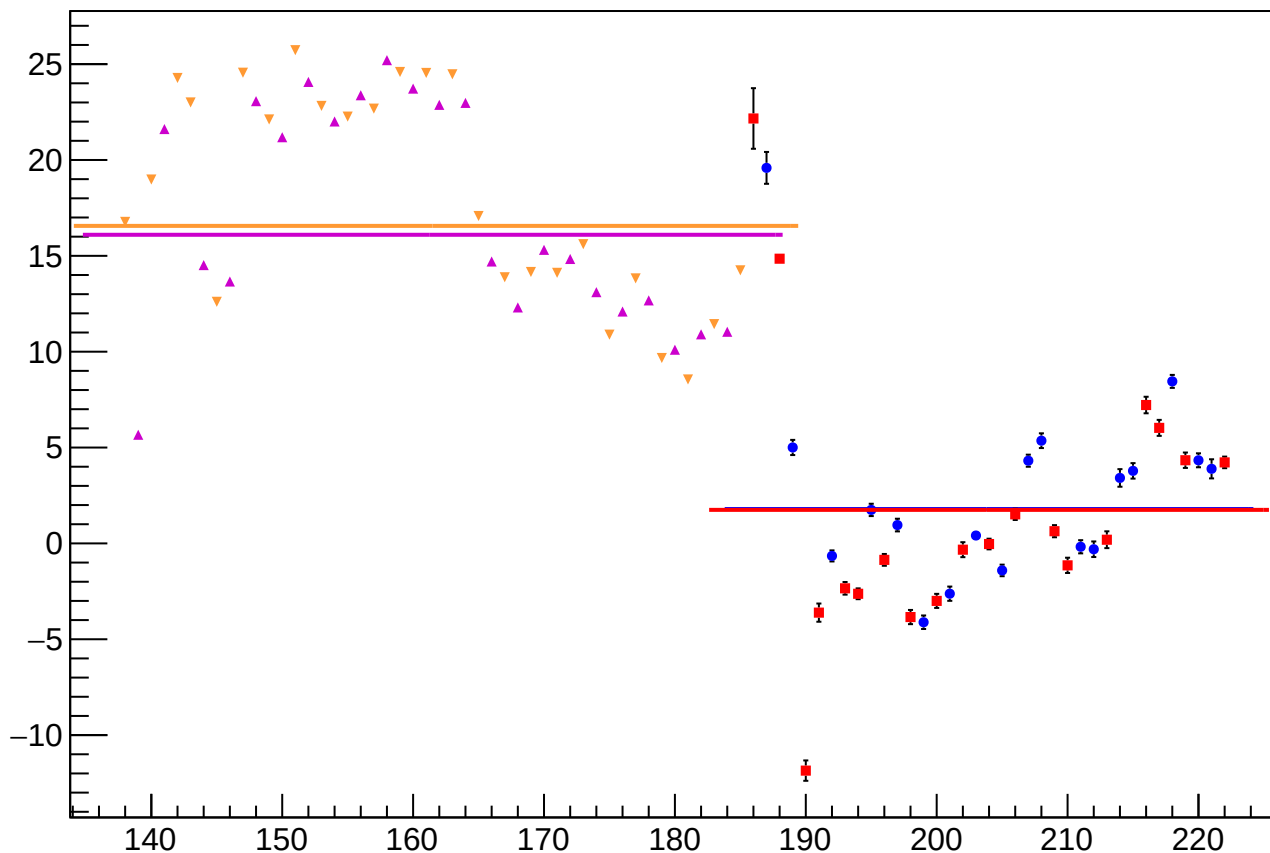


Right In: -5.121 ± 0.050 $\chi^2/\text{NDF}: 1481.8/17$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.592 ± 0.046 $\chi^2/\text{NDF}: 1885.9/18$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.377 ± 0.034 $\chi^2/\text{NDF}: 3415.5/36$
 In: -4.832 ± 0.023 $\chi^2/\text{NDF}: 15643.4/40$
 Out: -4.950 ± 0.023 $\chi^2/\text{NDF}: 15431.3/43$

All: -4.893 ± 0.016 $\chi^2/\text{NDF}: 31088.0/84$

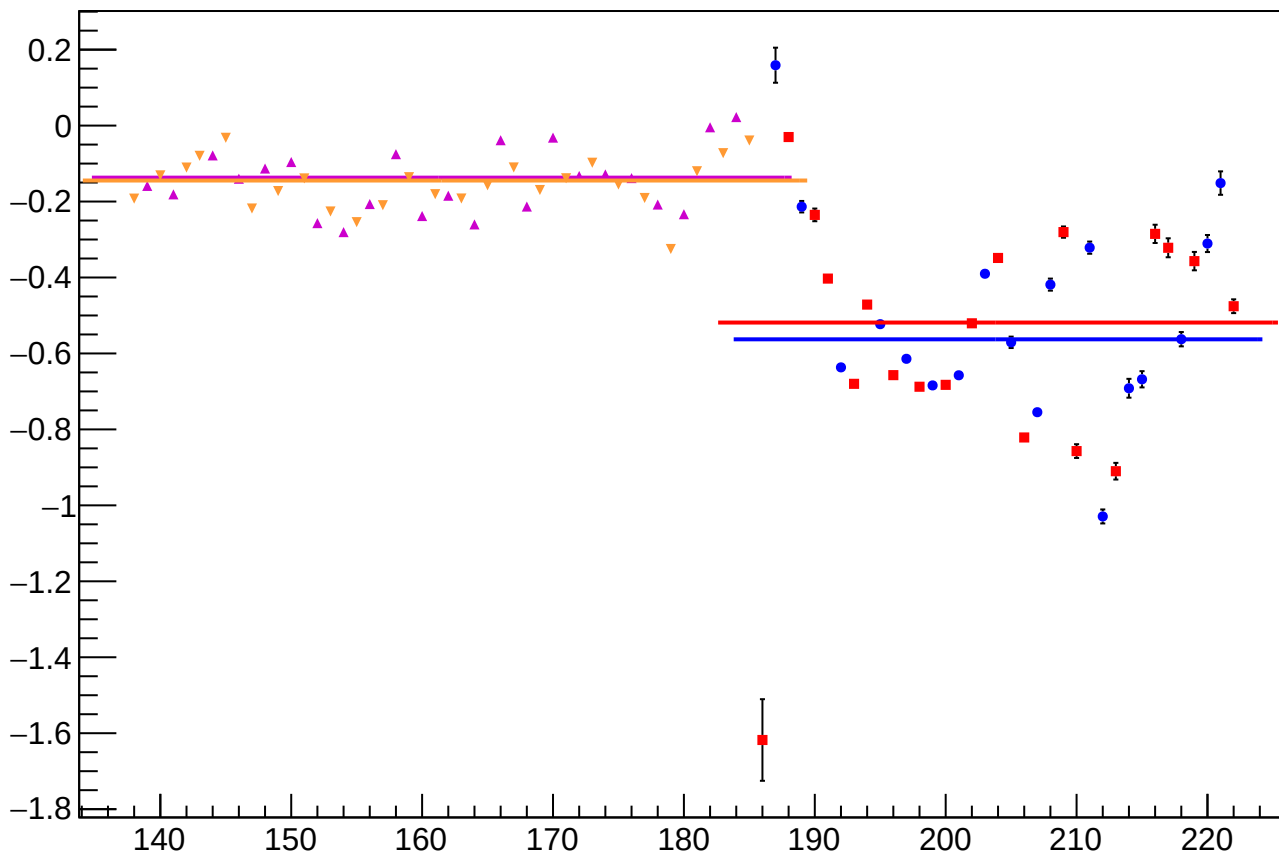
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.792 ± 0.084 $\chi^2/\text{NDF}: 1864.0/17$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 1.749 ± 0.080 $\chi^2/\text{NDF}: 5469.5/18$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 1.770 ± 0.058 $\chi^2/\text{NDF}: 7333.7/36$
 In: 15.052 ± 0.023 $\chi^2/\text{NDF}: 71169.3/40$
 Out: 15.431 ± 0.022 $\chi^2/\text{NDF}: 90617.8/43$
 All: 15.245 ± 0.016 $\chi^2/\text{NDF}: 161929.3/84$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.563 ± 0.003 χ^2/NDF : 2996.1/17

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.519 ± 0.003 χ^2/NDF : 5704.3/18

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

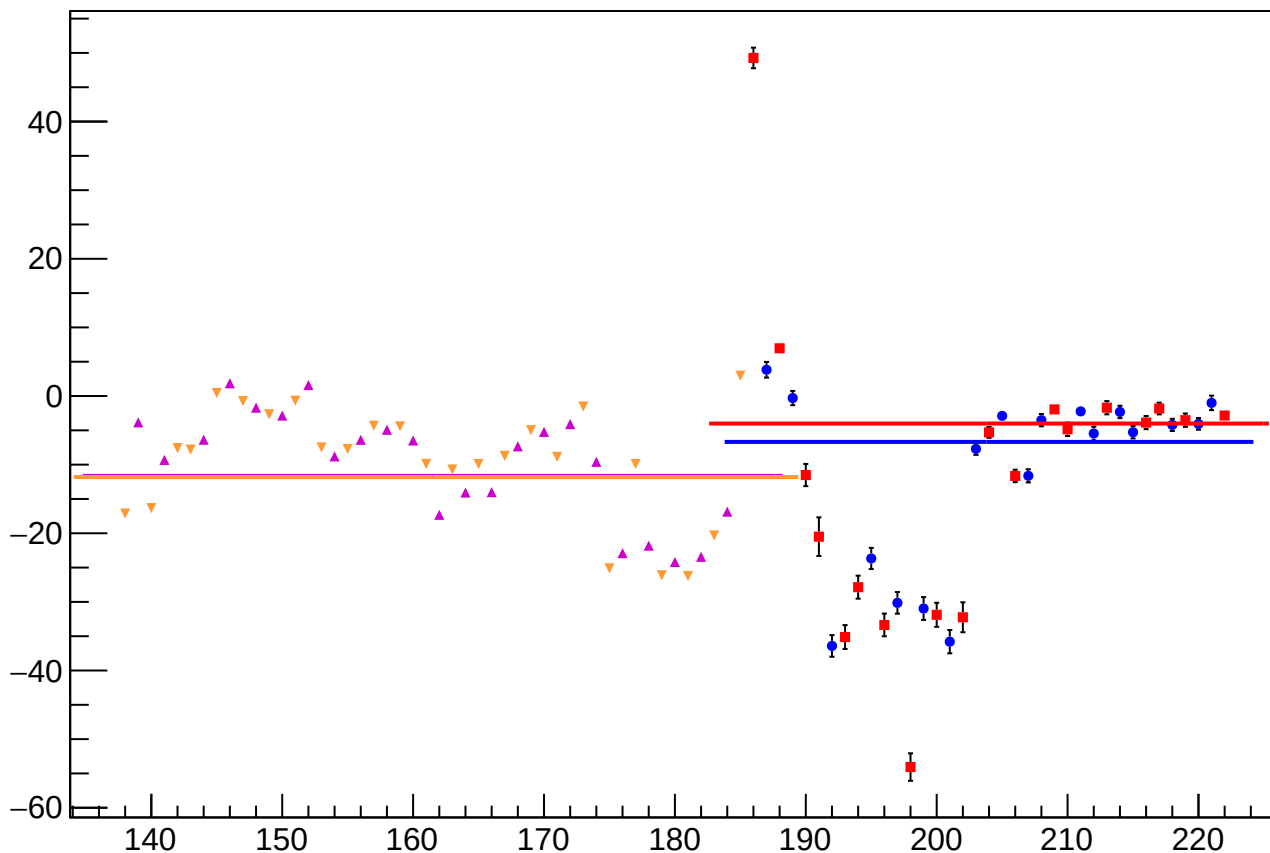
Right: -0.539 ± 0.002 χ^2/NDF : 8802.5/36

In: -0.180 ± 0.001 χ^2/NDF : 24389.3/40

Out: -0.186 ± 0.001 χ^2/NDF : 23406.8/43

All: -0.183 ± 0.001 χ^2/NDF : 47812.9/84

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected

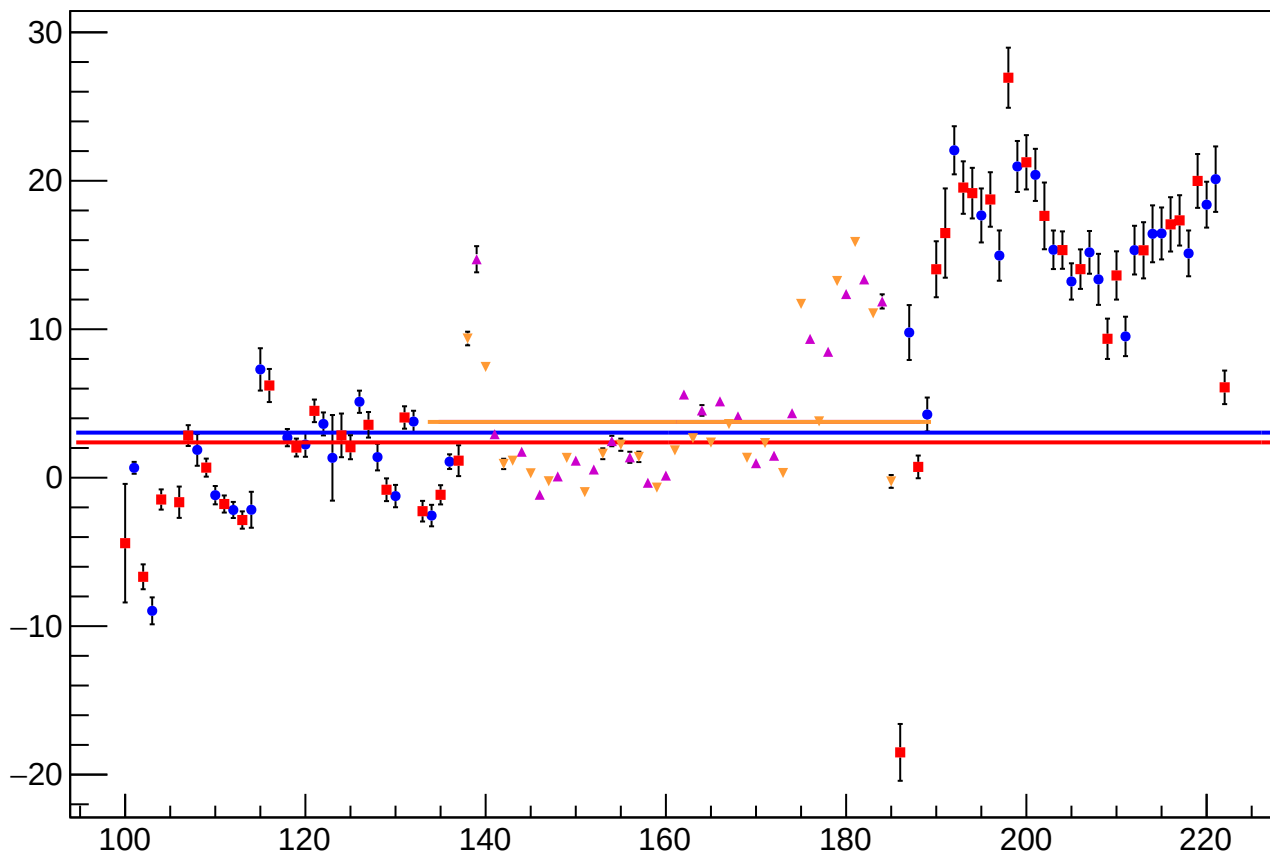


Right In: -6.684 ± 0.235 $\chi^2/\text{NDF}: 1507.2/17$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.009 ± 0.232 $\chi^2/\text{NDF}: 3714.0/18$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: -5.329 ± 0.165 $\chi^2/\text{NDF}: 5287.0/36$
 In: -11.220 ± 0.068 $\chi^2/\text{NDF}: 16036.6/40$
 Out: -11.145 ± 0.067 $\chi^2/\text{NDF}: 22057.9/43$

All: -11.182 ± 0.048 $\chi^2/\text{NDF}: 38095.2/84$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.036 $\pm$ 0.155 χ^2 /NDF: 1647.0/34

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 2.377 $\pm$ 0.156 χ^2 /NDF: 1731.9/37

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

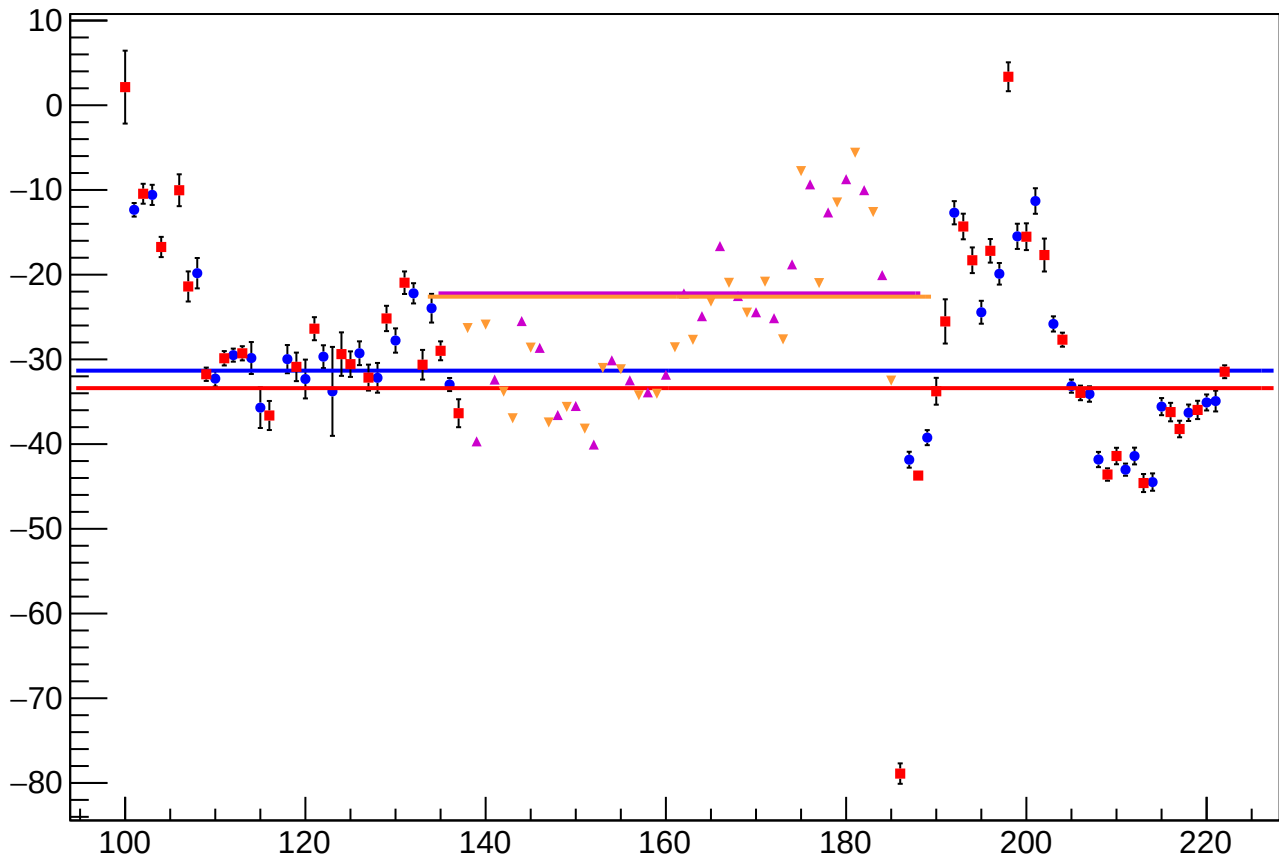
Right: 2.710 $\pm$ 0.110 χ^2 /NDF: 3387.9/72

In: 3.672 $\pm$ 0.053 χ^2 /NDF: 7295.5/57

Out: 3.602 $\pm$ 0.052 χ^2 /NDF: 9251.7/62

All: 3.636 $\pm$ 0.037 χ^2 /NDF: 16548.1/120

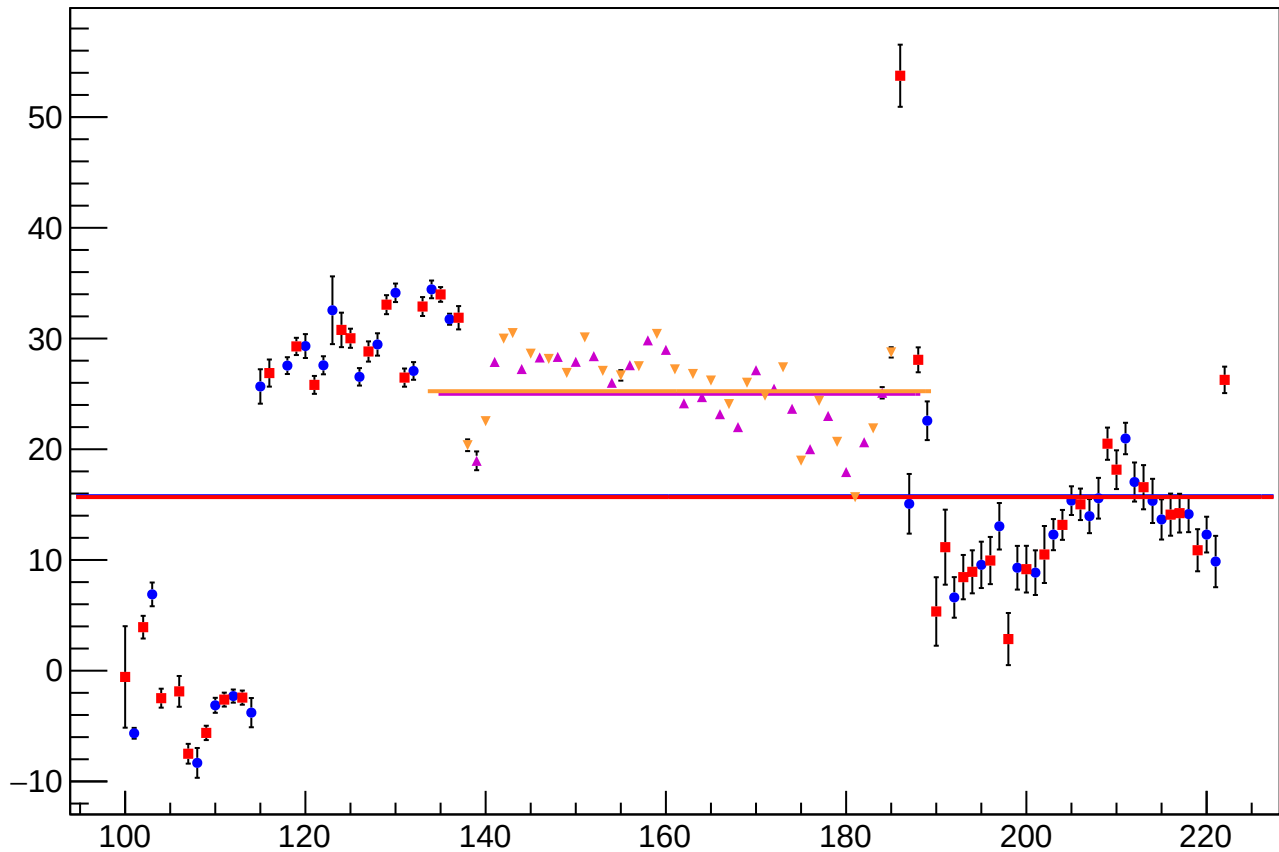
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.329 ± 0.185 $\chi^2/\text{NDF}: 2584.2/34$
 Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$
 Right Out: -33.394 ± 0.179 $\chi^2/\text{NDF}: 4583.8/37$
 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: -32.399 ± 0.129 $\chi^2/\text{NDF}: 7232.2/72$
 In: -23.393 ± 0.067 $\chi^2/\text{NDF}: 22317.5/57$
 Out: -24.058 ± 0.066 $\chi^2/\text{NDF}: 27670.5/62$
 All: -23.730 ± 0.047 $\chi^2/\text{NDF}: 50038.4/120$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.761+/-0.174 χ^2/NDF : 7653.5/34

Left Out: 25.242+/-0.063 χ^2/NDF : 3786.5/24

Right Out: 15.678+/-0.177 χ^2/NDF : 7762.8/37

Left In: 25.009+/-0.064 χ^2/NDF : 2722.0/22

Left: 25.128+/-0.045 χ^2/NDF : 6515.2/47

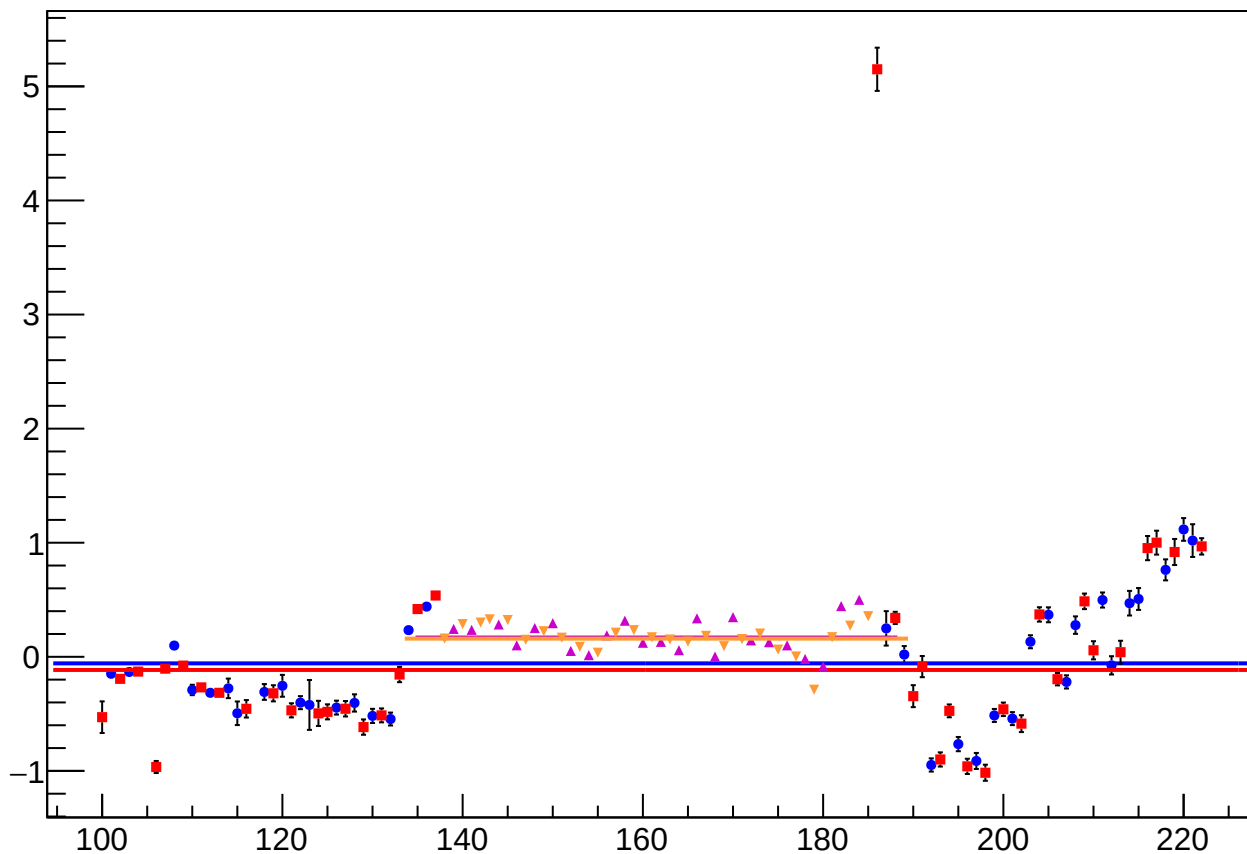
Right: 15.720+/-0.124 χ^2/NDF : 15416.4/72

In: 23.916+/-0.060 χ^2/NDF : 12854.6/57

Out: 24.183+/-0.059 χ^2/NDF : 14131.0/62

All: 24.052+/-0.042 χ^2/NDF : 26995.6/120

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.058 ± 0.009 χ^2/NDF : 2154.0/34

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.115 ± 0.009 χ^2/NDF : 3281.6/37

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

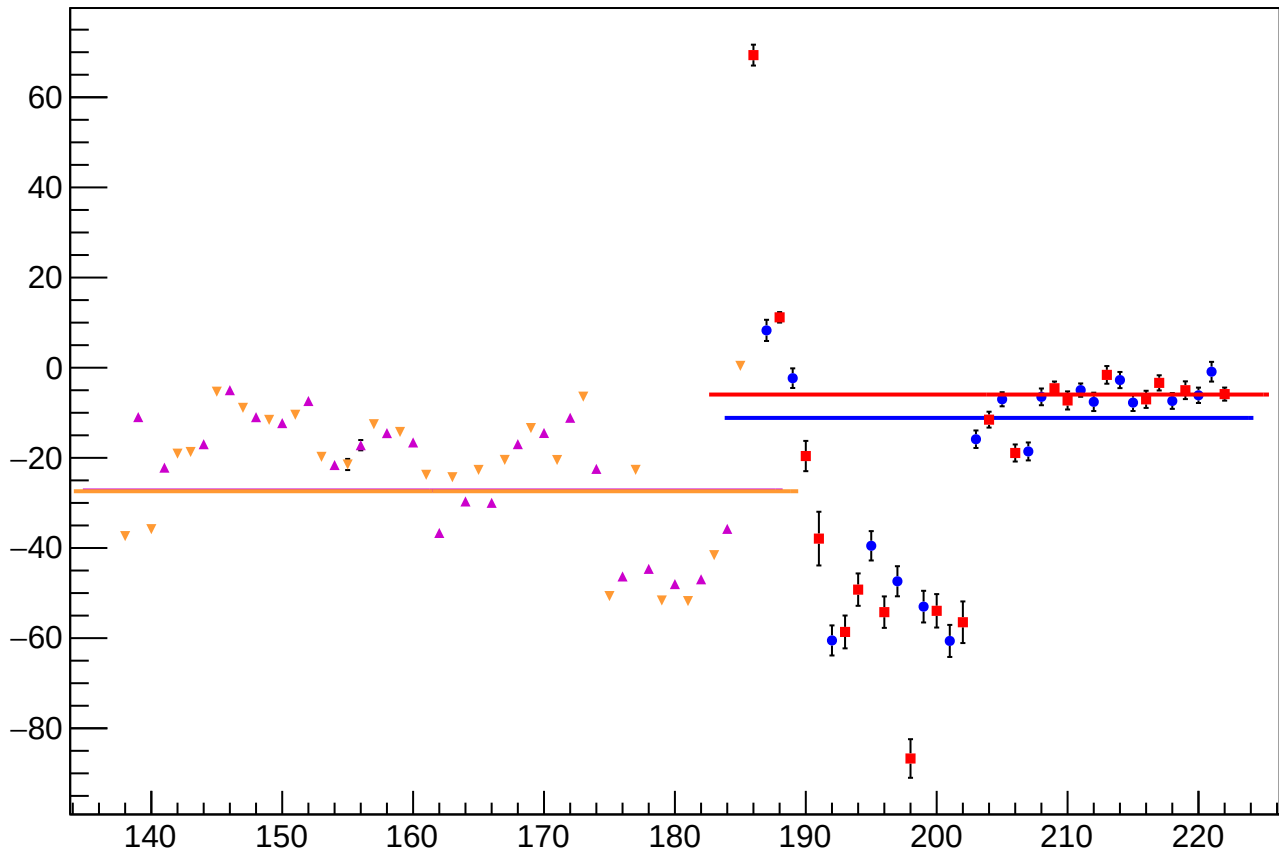
Right: -0.086 ± 0.006 χ^2/NDF : 5456.9/72

In: 0.147 ± 0.003 χ^2/NDF : 5165.0/57

Out: 0.133 ± 0.003 χ^2/NDF : 6021.9/62

All: 0.140 ± 0.002 χ^2/NDF : 11199.1/120

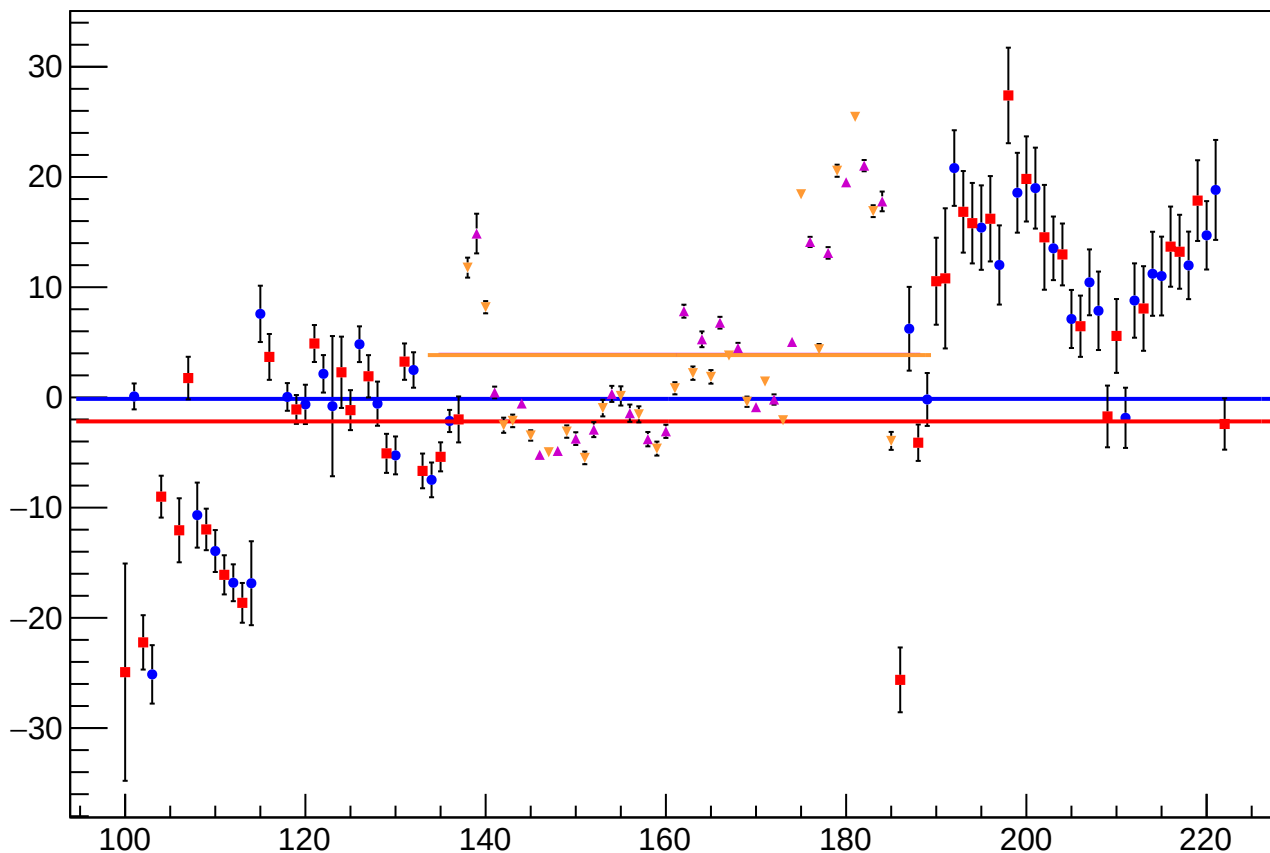
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.138 ± 0.487 $\chi^2/\text{NDF}: 947.4/17$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.954 ± 0.478 $\chi^2/\text{NDF}: 2573.0/18$
 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: -8.500 ± 0.341 $\chi^2/\text{NDF}: 3578.2/36$
 In: -26.023 ± 0.134 $\chi^2/\text{NDF}: 13264.7/40$
 Out: -25.784 ± 0.132 $\chi^2/\text{NDF}: 19283.7/43$
 All: -25.901 ± 0.094 $\chi^2/\text{NDF}: 32550.0/84$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.133 ± 0.363 χ^2/NDF : 582.1/34

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.177 ± 0.368 χ^2/NDF : 697.7/37

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

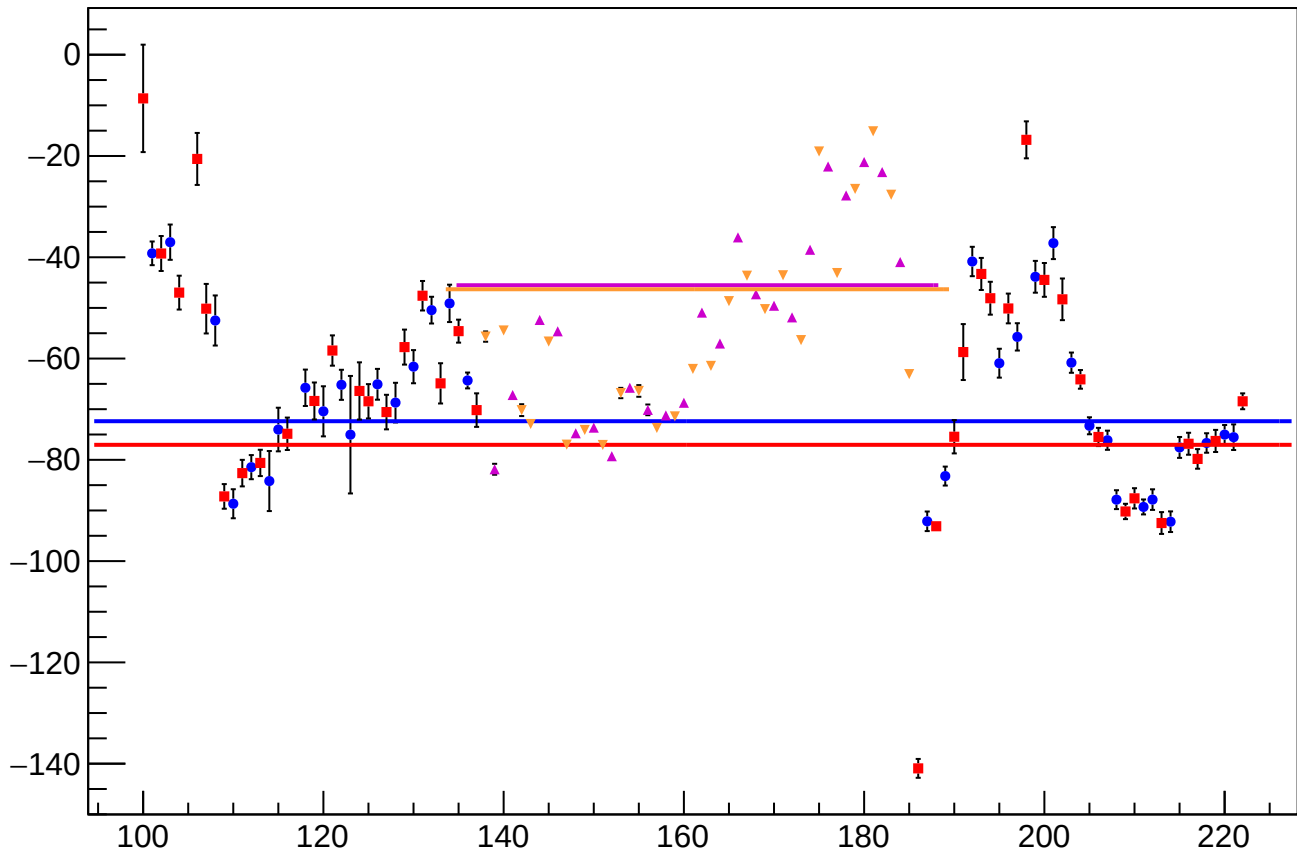
Right: -1.140 ± 0.258 χ^2/NDF : 1295.5/72

In: 3.522 ± 0.106 χ^2/NDF : 6117.4/57

Out: 3.353 ± 0.105 χ^2/NDF : 7883.1/62

All: 3.436 ± 0.075 χ^2/NDF : 14001.7/120

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.373 ± 0.408 χ^2/NDF : 1456.1/34

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.037 ± 0.394 χ^2/NDF : 3132.9/37

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

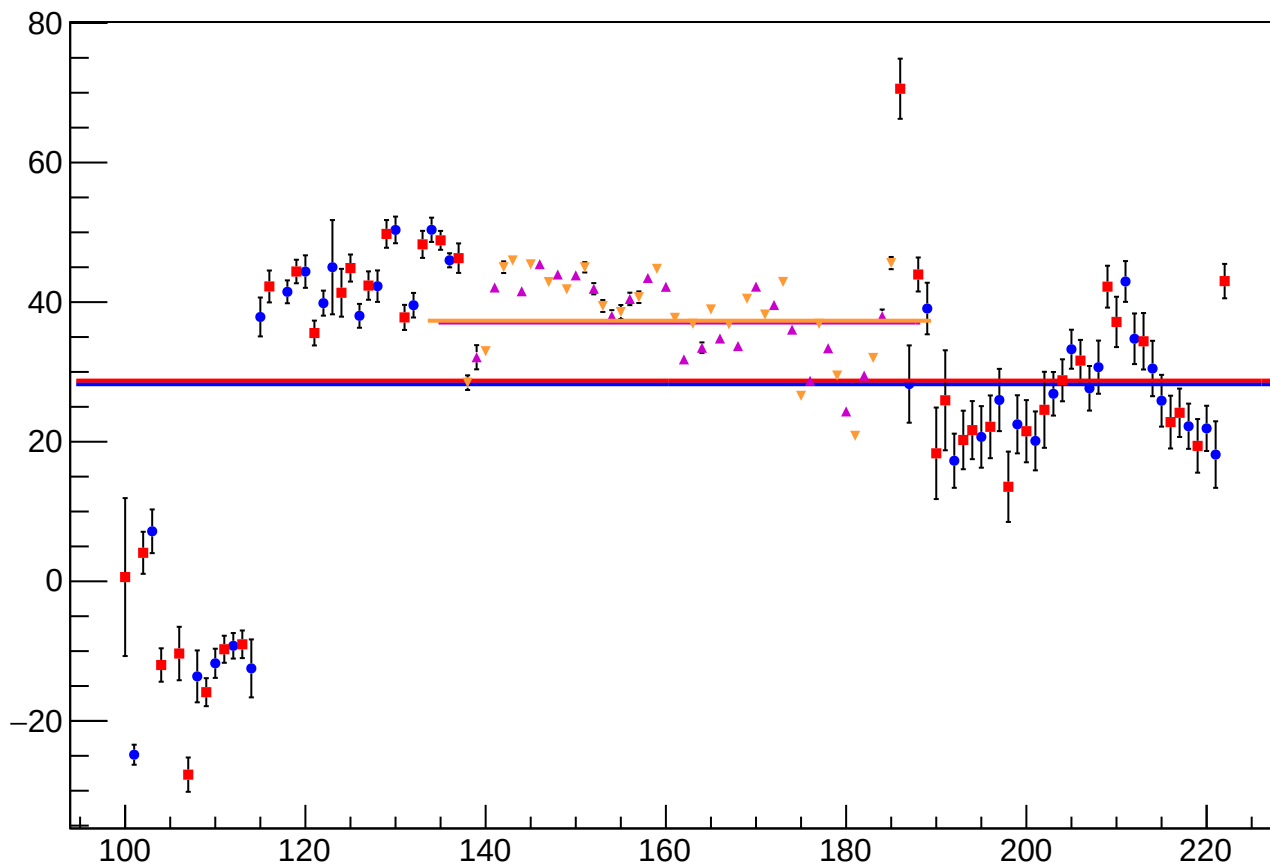
Right: -74.789 ± 0.283 χ^2/NDF : 4656.7/72

In: -48.340 ± 0.132 χ^2/NDF : 22856.0/57

Out: -49.677 ± 0.130 χ^2/NDF : 28691.0/62

All: -49.018 ± 0.093 χ^2/NDF : 51599.0/120

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.239 ± 0.406 χ^2/NDF : 3381.2/34

Left Out: 37.340 ± 0.123 χ^2/NDF : 3149.1/24

Right Out: 28.760 ± 0.417 χ^2/NDF : 3268.9/37

Left In: 37.074 ± 0.125 χ^2/NDF : 2397.3/22

Left: 37.209 ± 0.088 χ^2/NDF : 5548.7/47

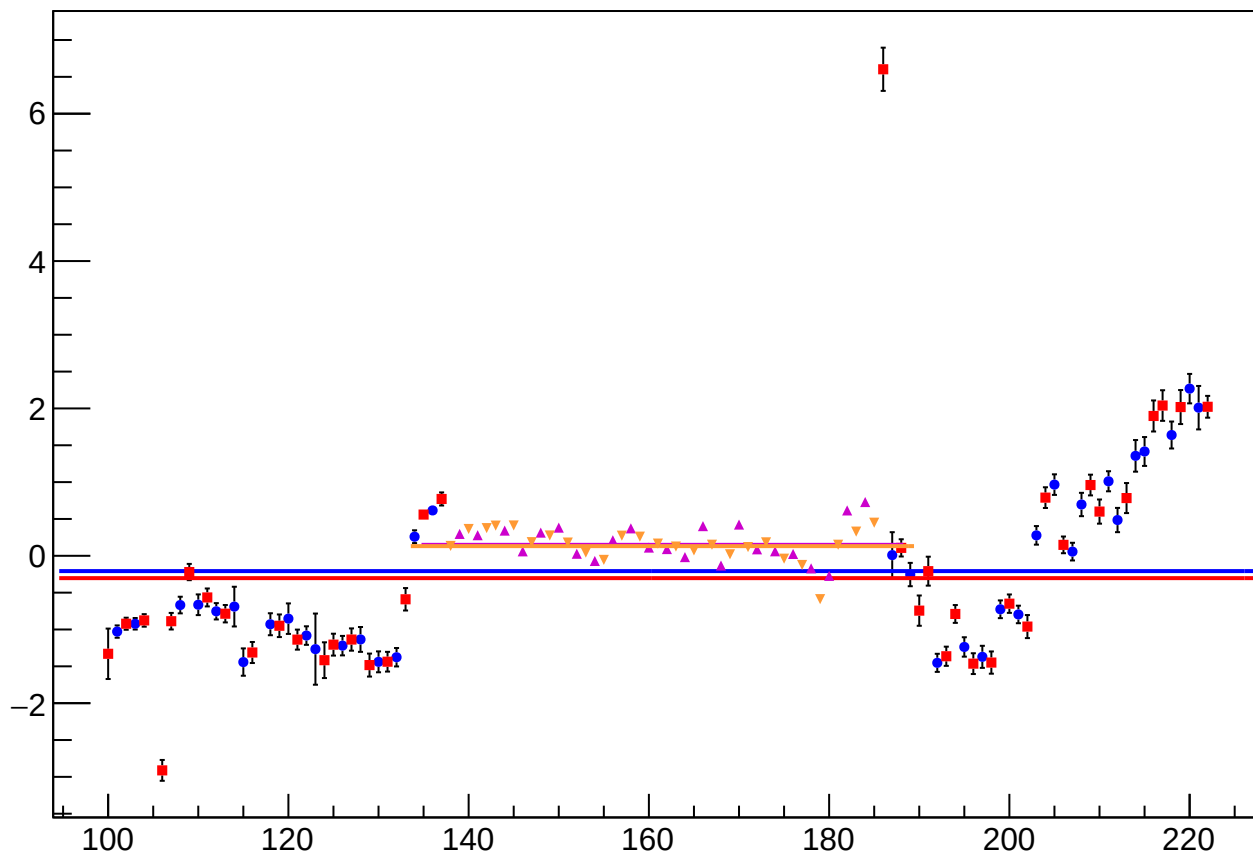
Right: 28.493 ± 0.291 χ^2/NDF : 6650.9/72

In: 36.308 ± 0.120 χ^2/NDF : 6210.3/57

Out: 36.654 ± 0.118 χ^2/NDF : 6808.0/62

All: 36.483 ± 0.084 χ^2/NDF : 13022.5/120

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.207 ± 0.020 χ^2/NDF : 1953.3/34

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.303 ± 0.021 χ^2/NDF : 2830.9/37

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

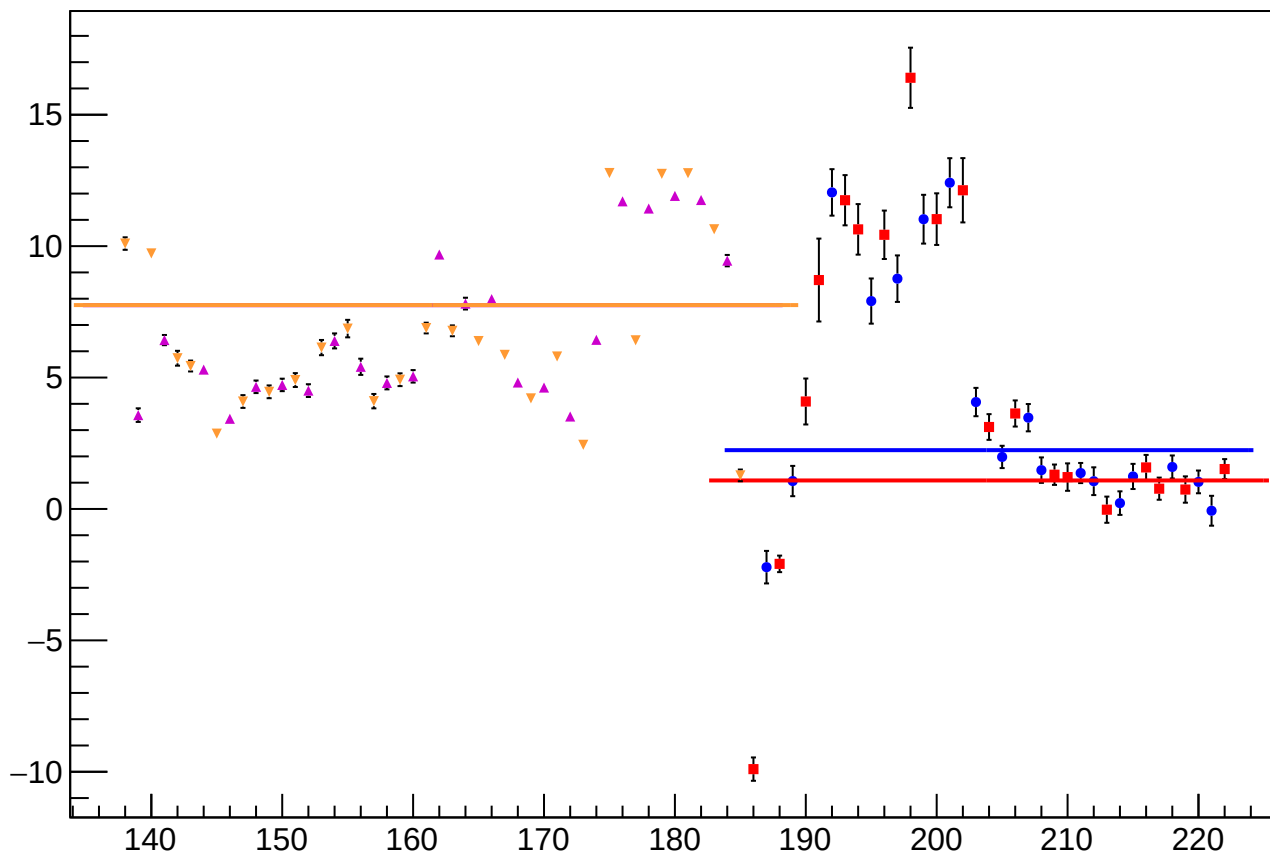
Right: -0.255 ± 0.015 χ^2/NDF : 4795.0/72

In: 0.123 ± 0.006 χ^2/NDF : 4038.0/57

Out: 0.102 ± 0.005 χ^2/NDF : 4664.3/62

All: 0.112 ± 0.004 χ^2/NDF : 8709.8/120

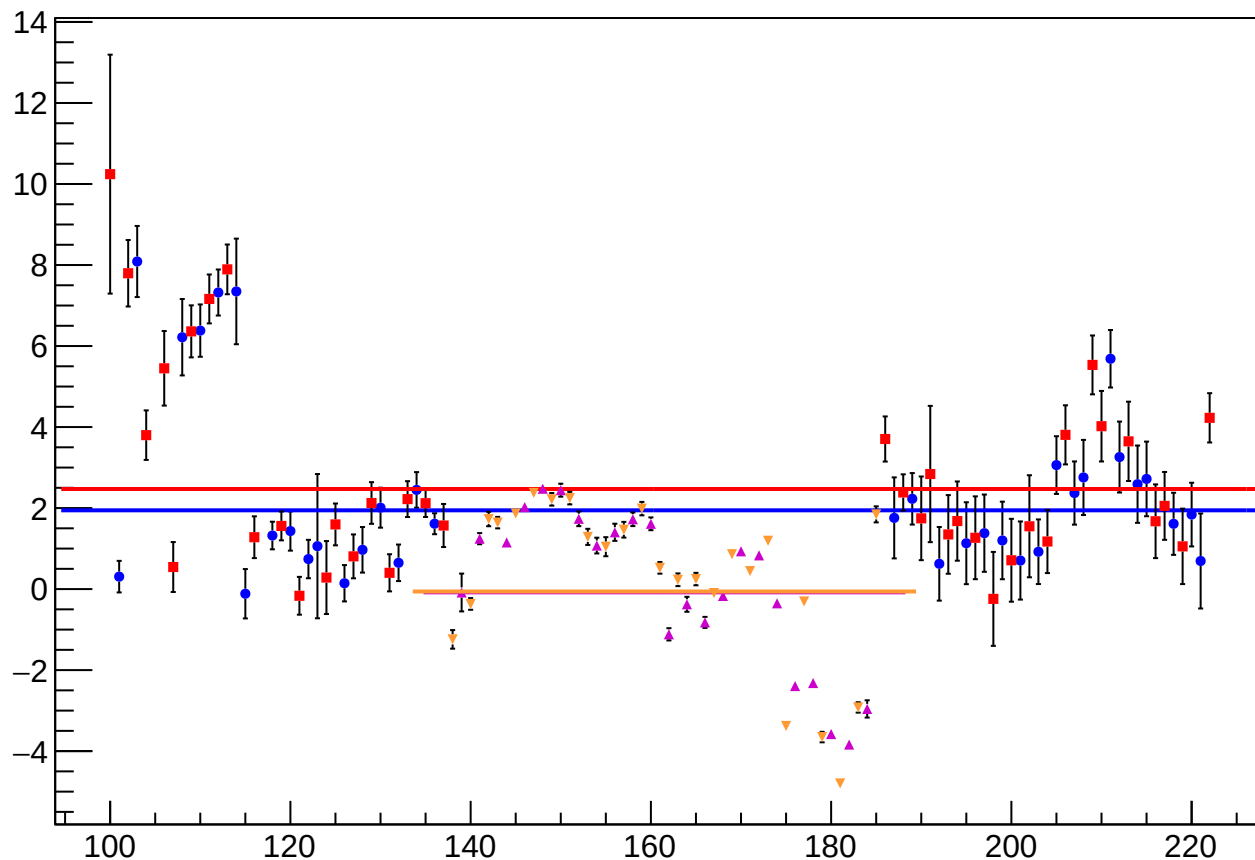
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.237 ± 0.127 $\chi^2/\text{NDF}: 566.3/17$
 Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$
 Right Out: 1.085 ± 0.123 $\chi^2/\text{NDF}: 1489.7/18$
 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: 1.643 ± 0.088 $\chi^2/\text{NDF}: 2098.6/36$
 In: 7.361 ± 0.034 $\chi^2/\text{NDF}: 10668.8/40$
 Out: 7.273 ± 0.033 $\chi^2/\text{NDF}: 15955.8/43$
 All: 7.316 ± 0.024 $\chi^2/\text{NDF}: 26628.1/84$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.944 $\pm$ 0.101 χ^2 /NDF: 337.2/34

Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF: 6068.8/24

Right Out: 2.471 $\pm$ 0.102 χ^2 /NDF: 394.2/37

Left In: -0.080 $\pm$ 0.028 χ^2 /NDF: 4979.5/22

Left: -0.070 $\pm$ 0.020 χ^2 /NDF: 11048.5/47

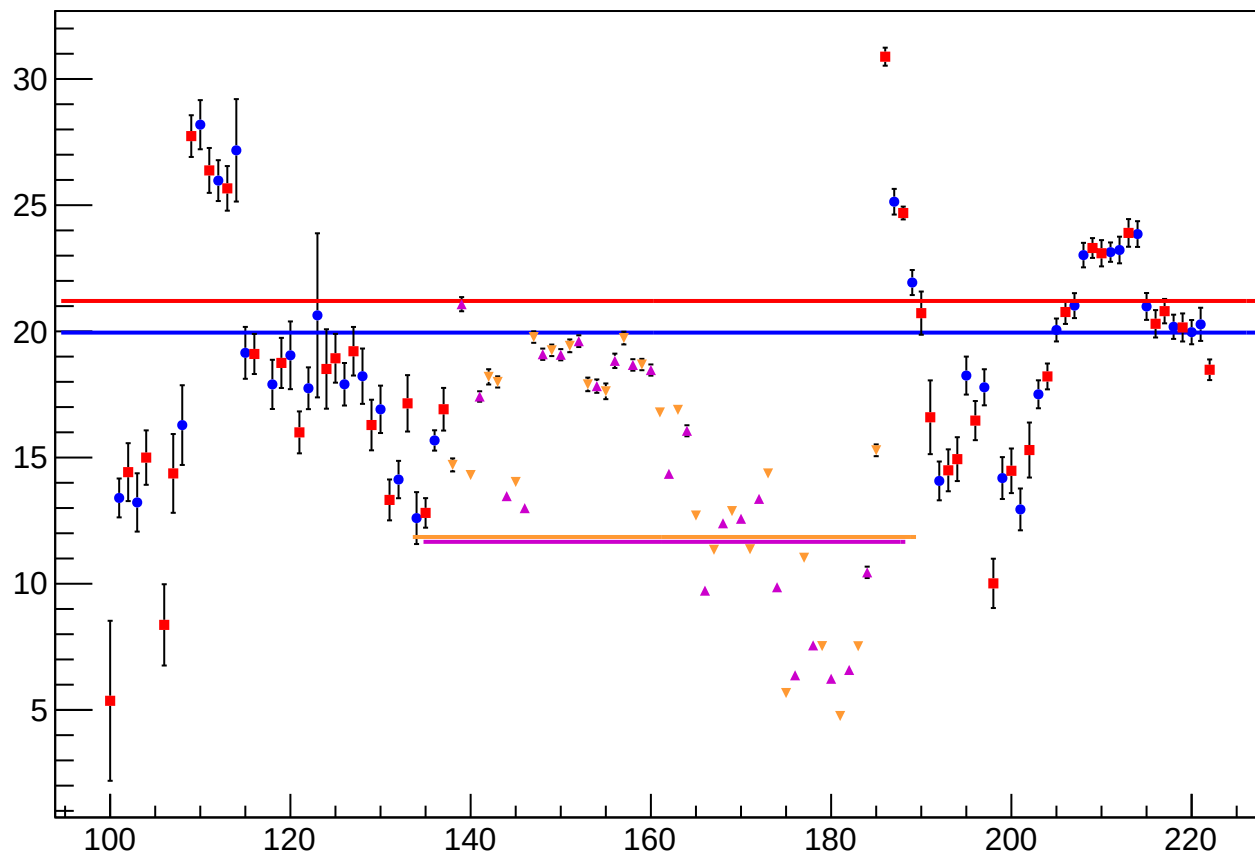
Right: 2.205 $\pm$ 0.072 χ^2 /NDF: 744.7/72

In: 0.066 $\pm$ 0.027 χ^2 /NDF: 5687.7/57

Out: 0.114 $\pm$ 0.027 χ^2 /NDF: 7032.7/62

All: 0.090 $\pm$ 0.019 χ^2 /NDF: 12722.0/120

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.951 $\pm$ 0.109 χ^2 /NDF: 1054.8/34

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.204 $\pm$ 0.104 χ^2 /NDF: 2185.7/37

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

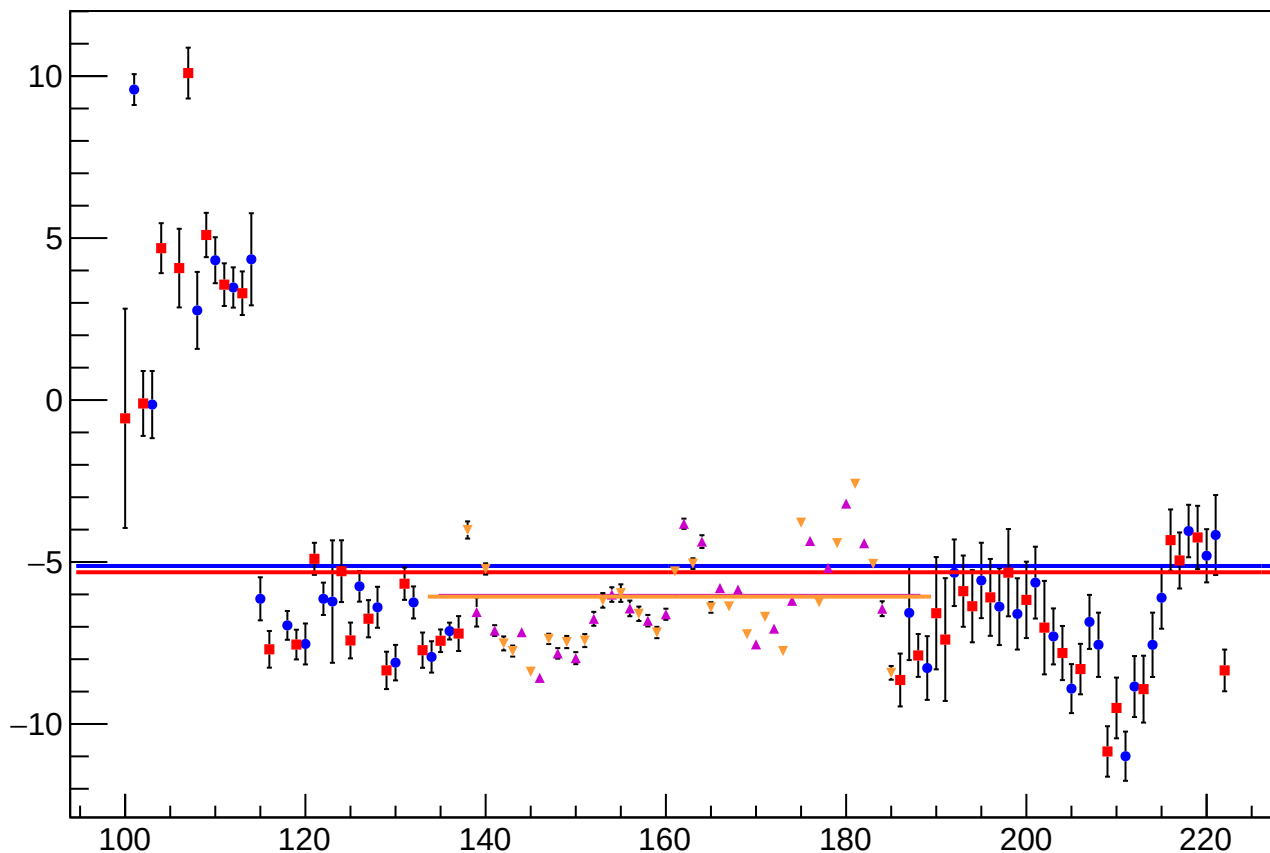
Right: 20.609 $\pm$ 0.075 χ^2 /NDF: 3309.4/72

In: 12.437 $\pm$ 0.034 χ^2 /NDF:22966.3/57

Out: 12.787 $\pm$ 0.033 χ^2 /NDF:28598.4/62

All: 12.615 $\pm$ 0.023 χ^2 /NDF: 51620.4/120

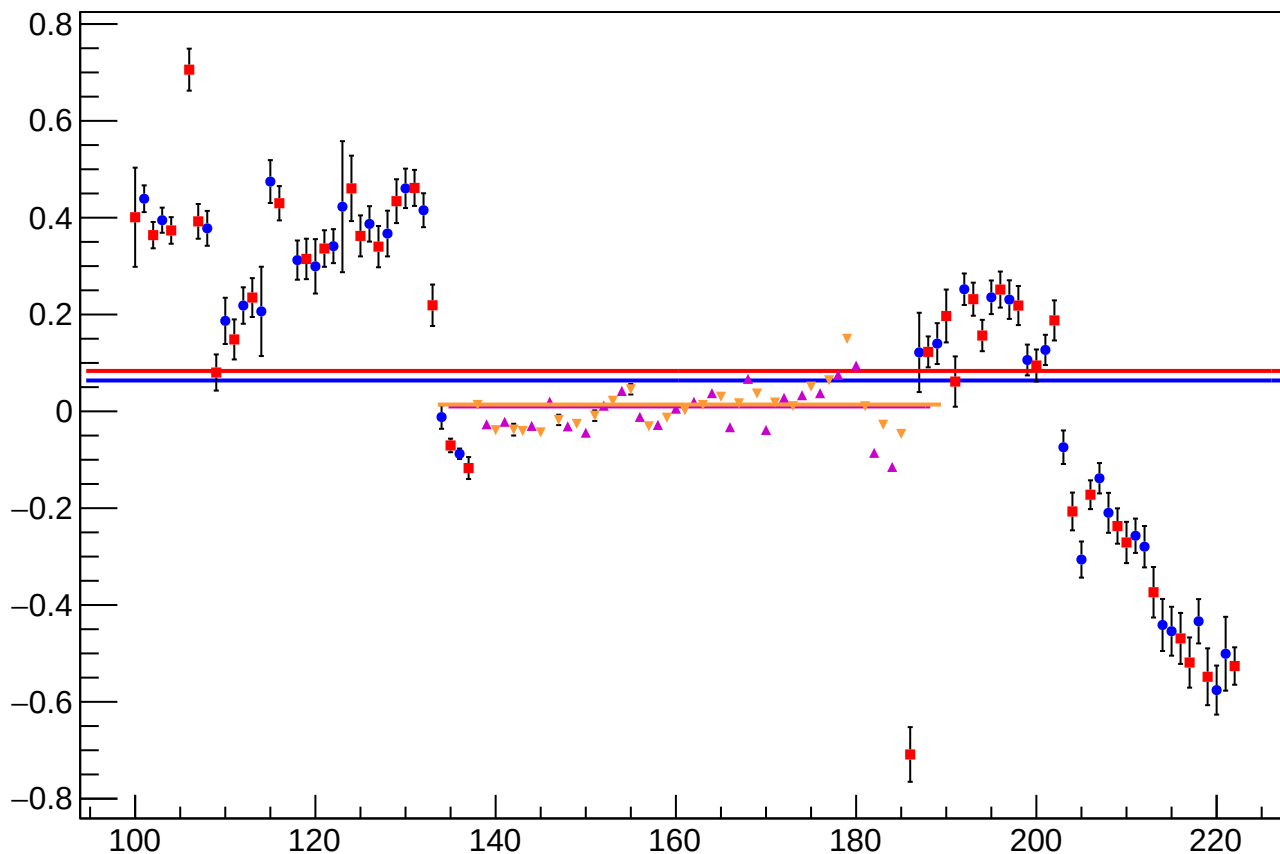
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.122 ± 0.113 $\chi^2/\text{NDF}: 1747.1/34$
 Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$
 Right Out: -5.316 ± 0.116 $\chi^2/\text{NDF}: 1547.5/37$
 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: -5.217 ± 0.081 $\chi^2/\text{NDF}: 3296.0/72$
 In: -5.978 ± 0.031 $\chi^2/\text{NDF}: 4102.7/57$
 Out: -6.018 ± 0.030 $\chi^2/\text{NDF}: 4258.4/62$
 All: -5.998 ± 0.021 $\chi^2/\text{NDF}: 8362.0/120$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.064 $\pm$ 0.006 χ^2 /NDF: 2137.8/34

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.084 $\pm$ 0.006 χ^2 /NDF: 2404.3/37

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

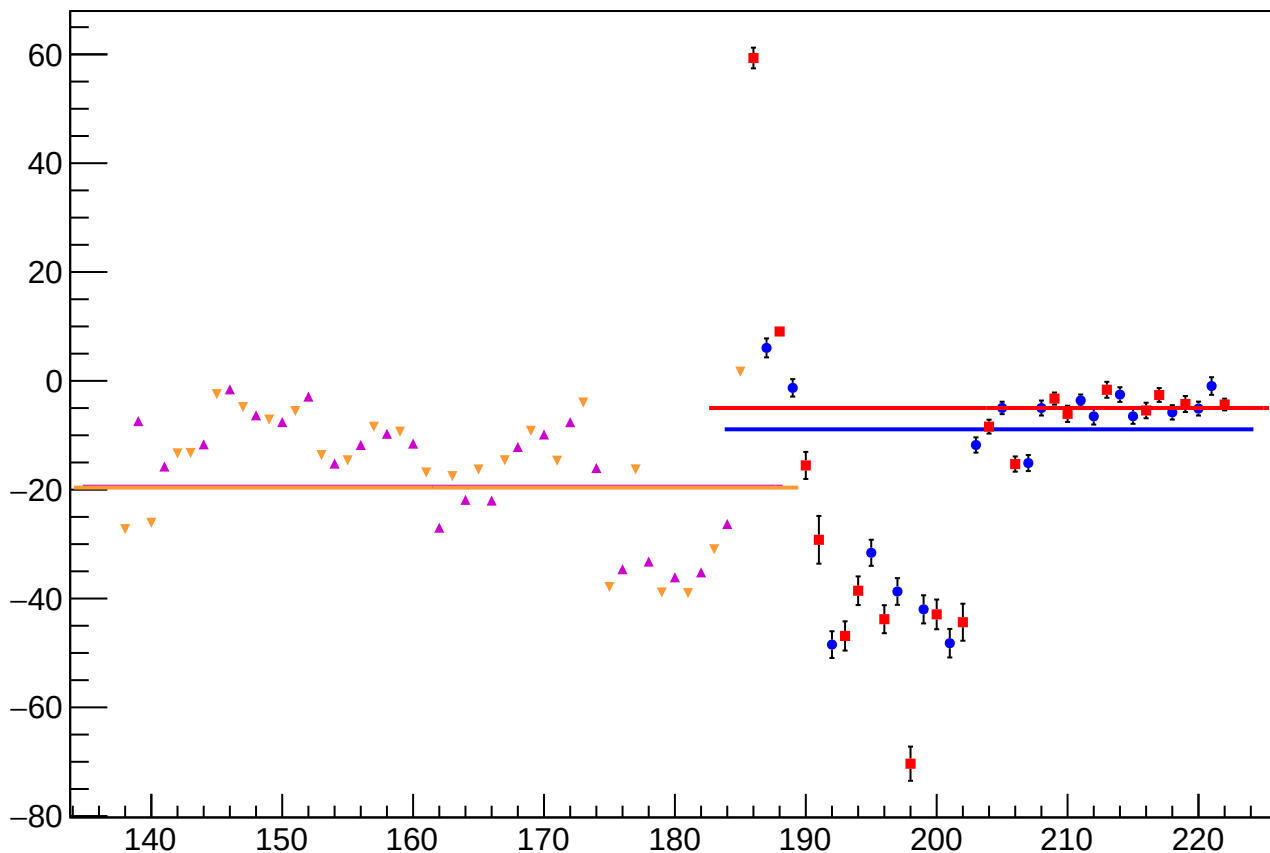
Right: 0.073 $\pm$ 0.004 χ^2 /NDF: 4548.1/72

In: 0.013 $\pm$ 0.001 χ^2 /NDF: 3438.6/57

Out: 0.018 $\pm$ 0.001 χ^2 /NDF: 3496.8/62

All: 0.016 $\pm$ 0.001 χ^2 /NDF: 6940.9/120

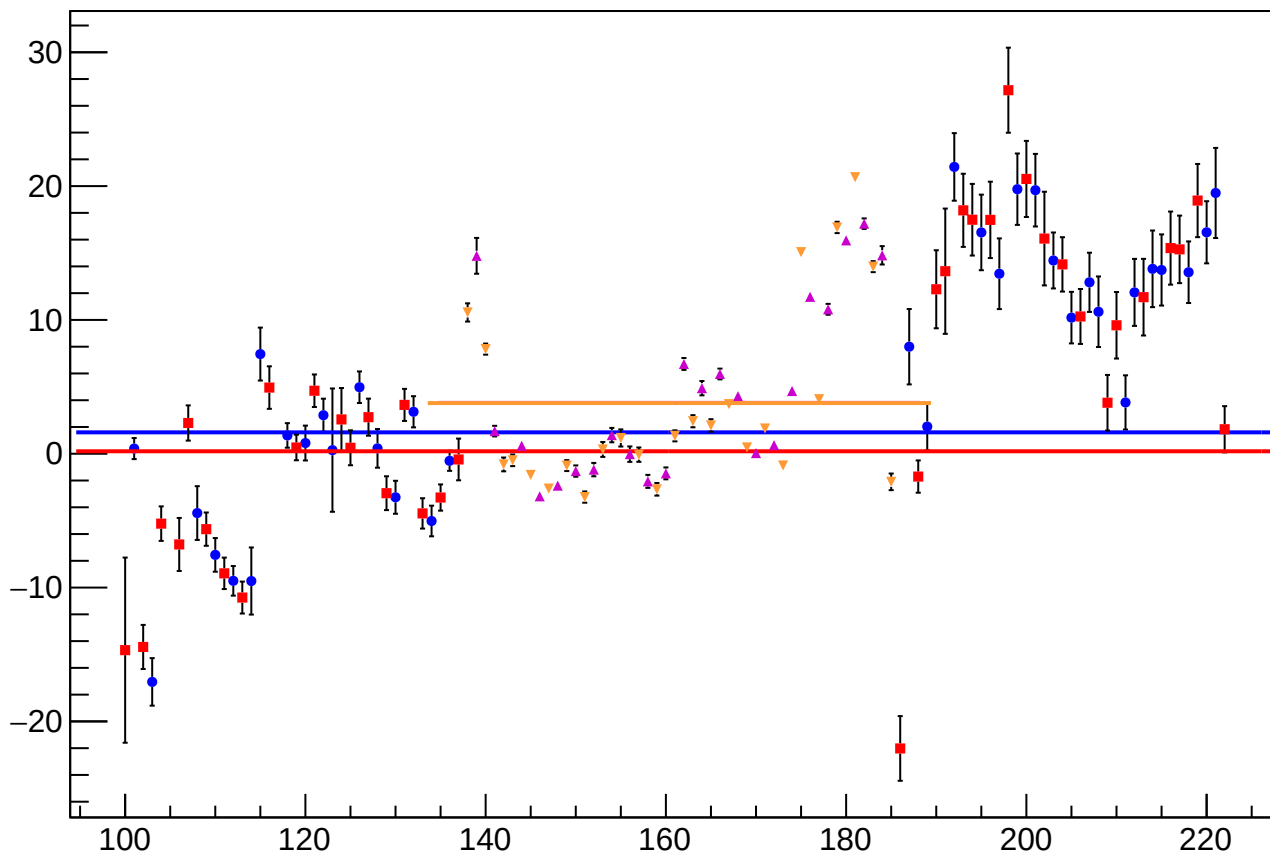
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.906 ± 0.360 $\chi^2/\text{NDF}: 1112.3/17$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -4.983 ± 0.355 $\chi^2/\text{NDF}: 2935.6/18$
 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: -6.915 ± 0.253 $\chi^2/\text{NDF}: 4108.0/36$
 In: -18.624 ± 0.101 $\chi^2/\text{NDF}: 14184.2/40$
 Out: -18.472 ± 0.099 $\chi^2/\text{NDF}: 20262.6/43$
 All: -18.547 ± 0.071 $\chi^2/\text{NDF}: 34447.9/84$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.599 ± 0.260 $\chi^2/\text{NDF}: 828.2/34$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: 0.185 ± 0.264 $\chi^2/\text{NDF}: 950.8/37$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

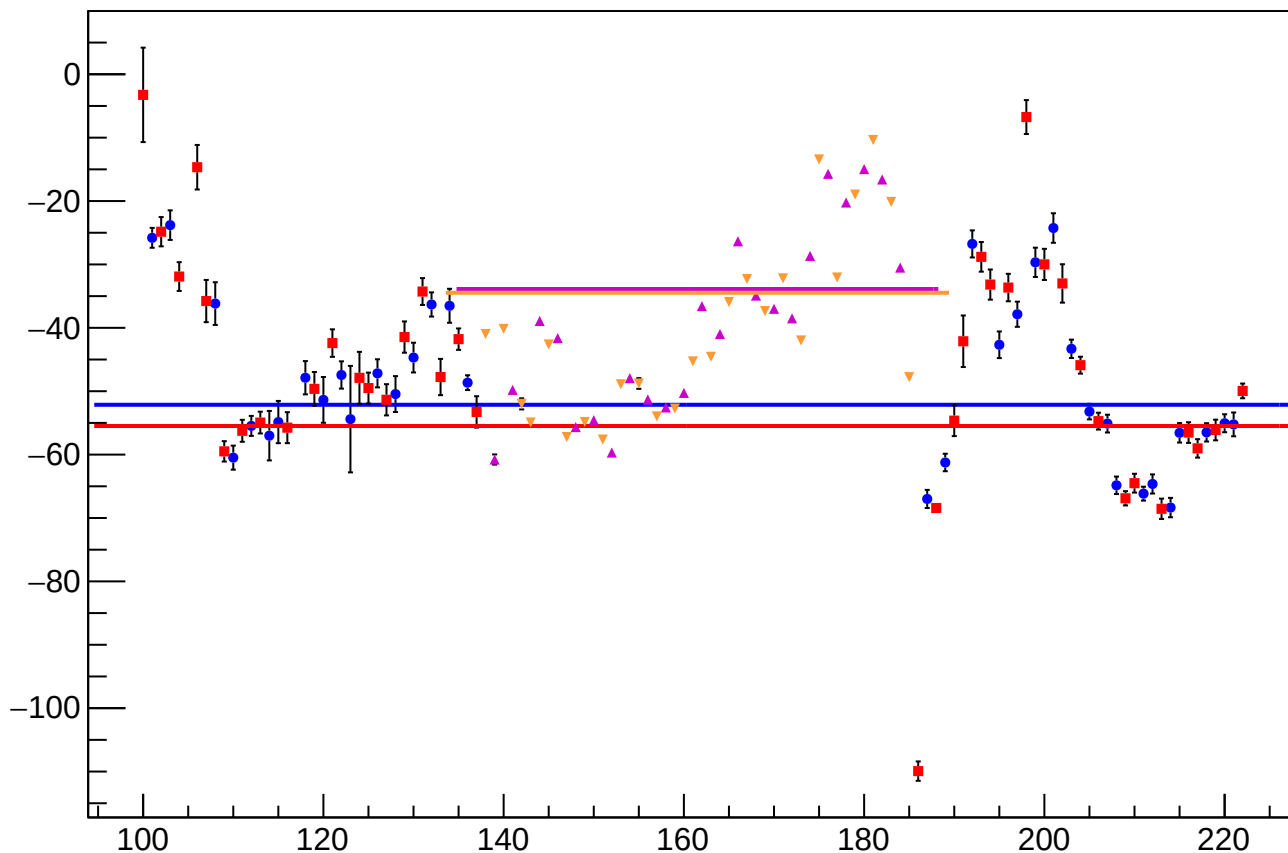
Right: 0.902 ± 0.185 $\chi^2/\text{NDF}: 1793.5/72$

In: 3.593 ± 0.080 $\chi^2/\text{NDF}: 6410.0/57$

Out: 3.470 ± 0.078 $\chi^2/\text{NDF}: 8271.5/62$

All: 3.530 ± 0.056 $\chi^2/\text{NDF}: 14682.7/120$

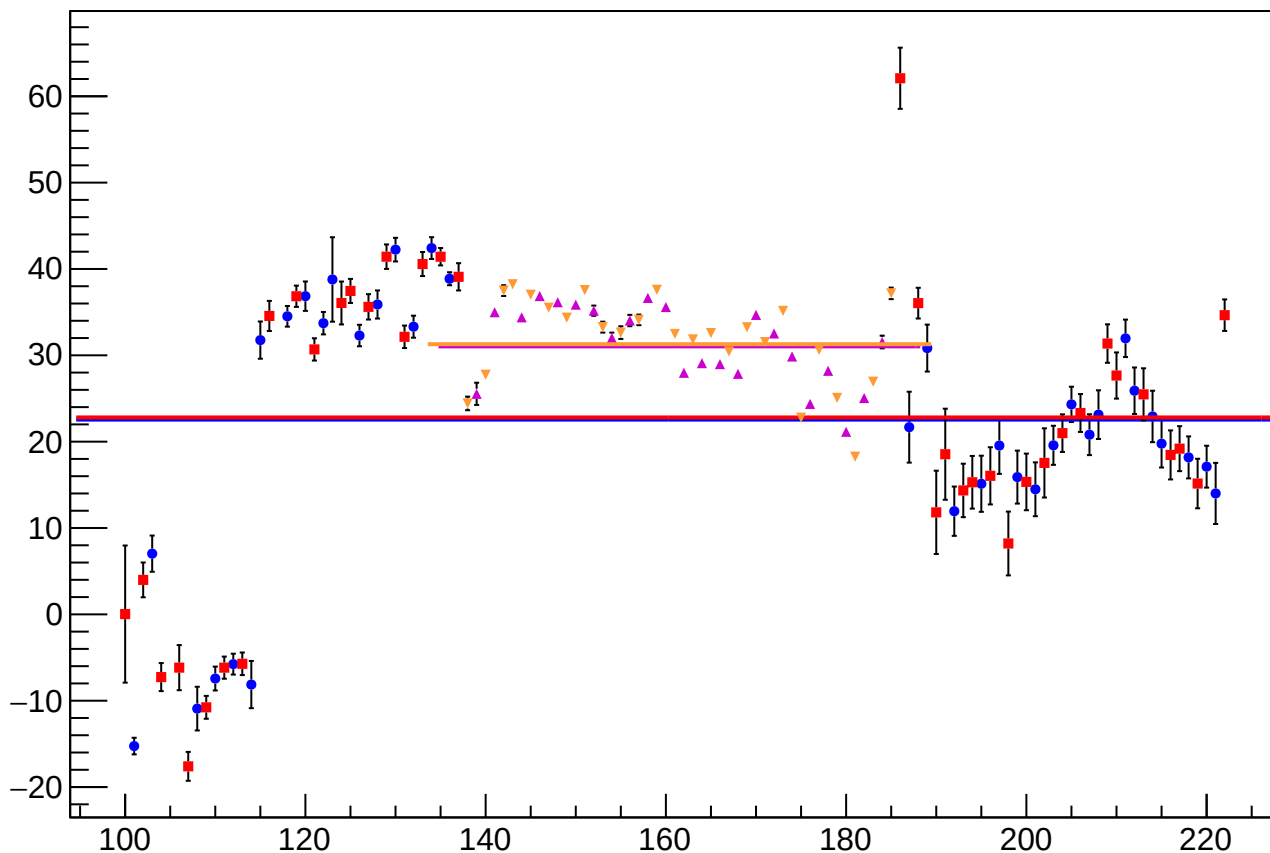
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.140 ± 0.298 $\chi^2/\text{NDF}: 1710.6/34$
 Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$
 Right Out: -55.488 ± 0.288 $\chi^2/\text{NDF}: 3509.9/37$
 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: -53.872 ± 0.207 $\chi^2/\text{NDF}: 5285.8/72$
 In: -35.903 ± 0.099 $\chi^2/\text{NDF}: 22691.3/57$
 Out: -36.897 ± 0.098 $\chi^2/\text{NDF}: 28424.7/62$
 All: -36.408 ± 0.070 $\chi^2/\text{NDF}: 51166.9/120$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.554 $\pm$ 0.292 χ^2 /NDF: 4397.6/34

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.804 $\pm$ 0.299 χ^2 /NDF: 4331.9/37

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

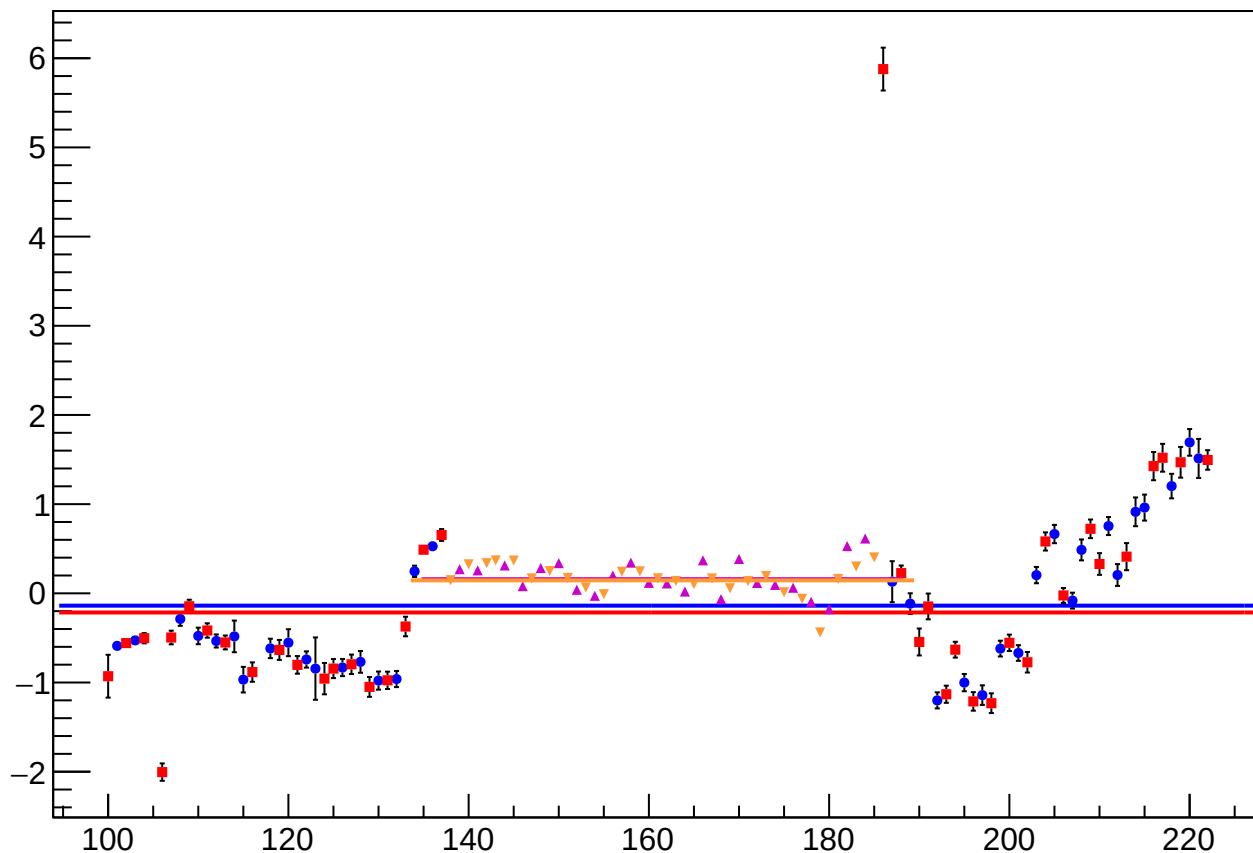
Right: 22.676 $\pm$ 0.209 χ^2 /NDF: 8729.8/72

In: 30.240 $\pm$ 0.090 χ^2 /NDF:7642.3/57

Out: 30.547 $\pm$ 0.088 χ^2 /NDF:8412.5/62

All: 30.396 $\pm$ 0.063 χ^2 /NDF: 16060.7/120

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.138 ± 0.015 χ^2/NDF : 1960.0/34

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.215 ± 0.015 χ^2/NDF : 2966.5/37

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

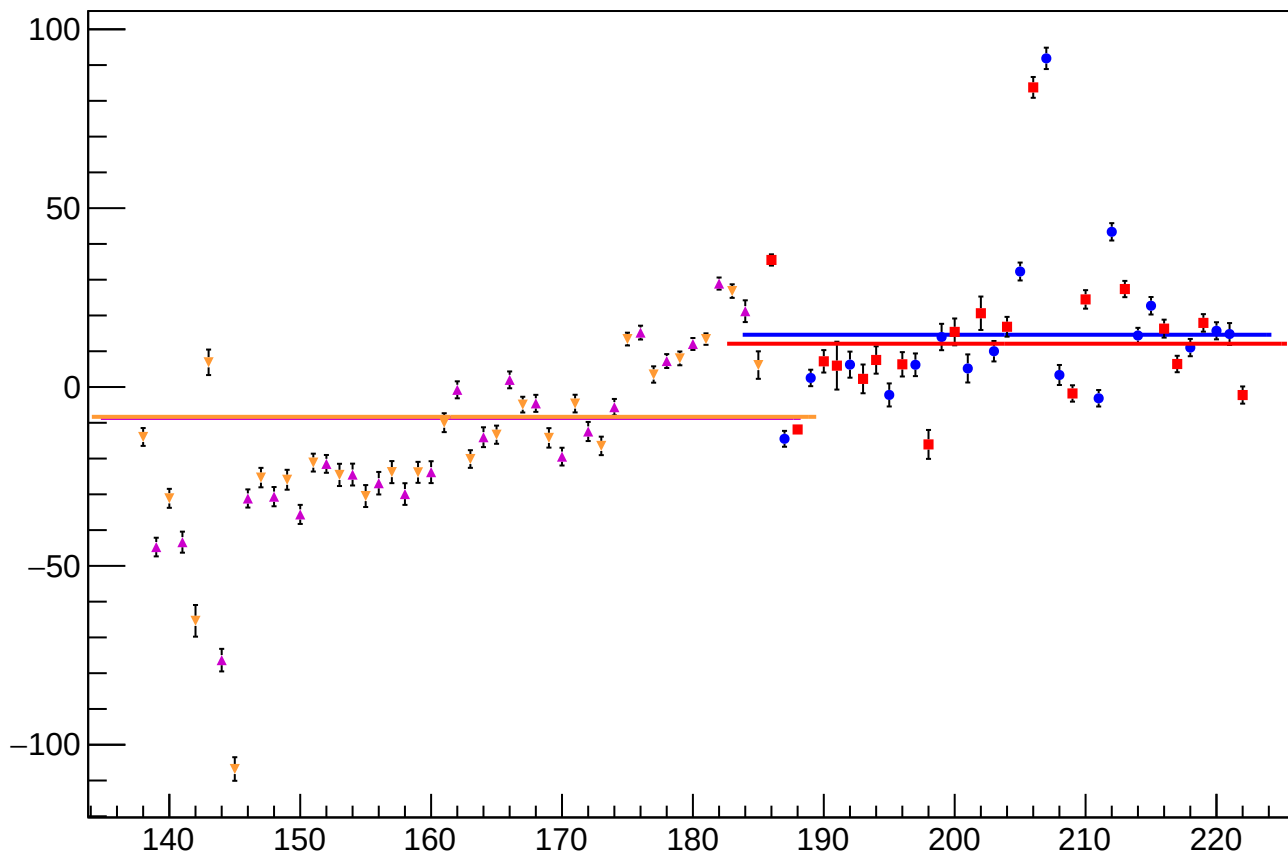
Right: -0.176 ± 0.010 χ^2/NDF : 4939.8/72

In: 0.135 ± 0.004 χ^2/NDF : 4344.2/57

Out: 0.118 ± 0.004 χ^2/NDF : 5086.5/62

All: 0.127 ± 0.003 χ^2/NDF : 9439.2/120

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.611 $\pm$ 0.630 χ^2 /NDF: 1195.0/17

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.103 $\pm$ 0.573 χ^2 /NDF: 1426.4/18

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

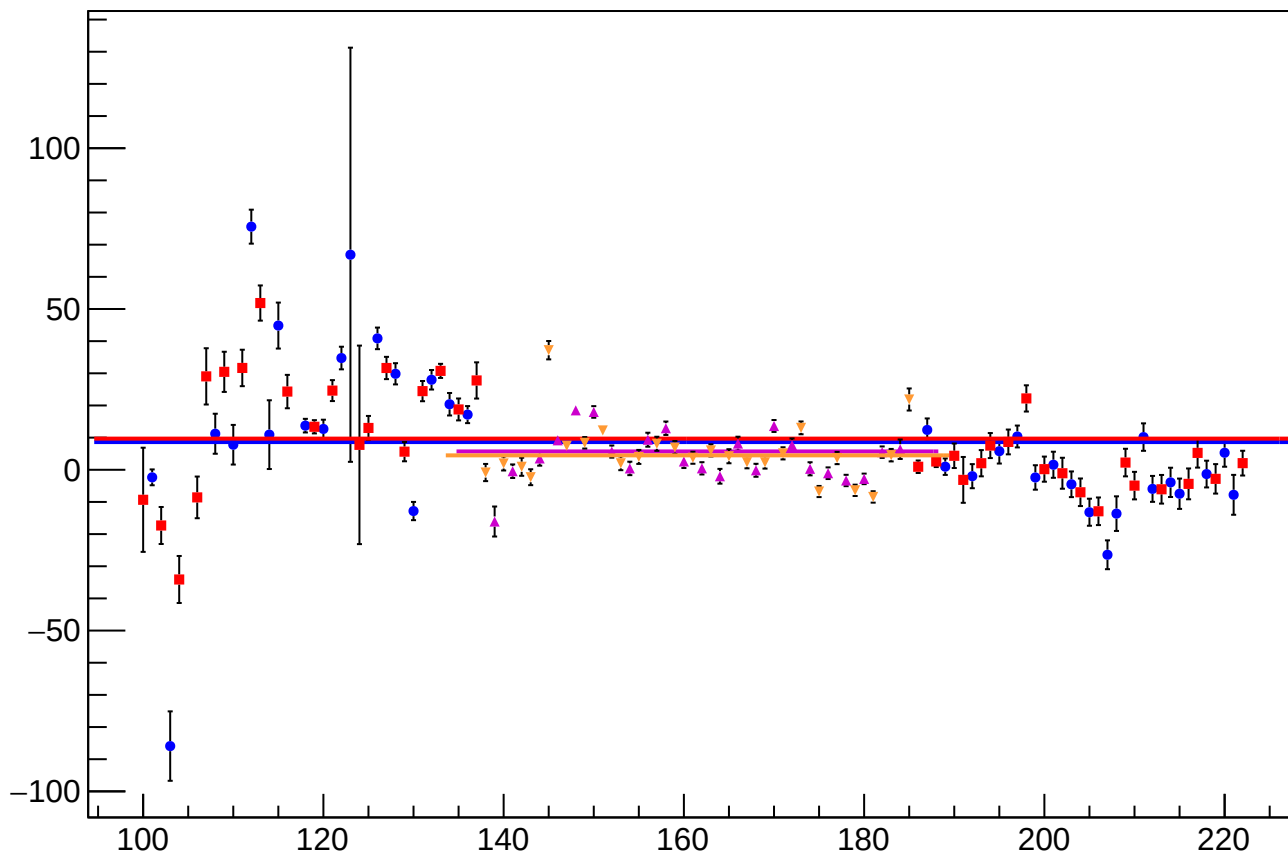
Right: 13.238 $\pm$ 0.424 χ^2 /NDF: 2630.1/36

In: 0.495 $\pm$ 0.395 χ^2 /NDF: 4246.0/40

Out: 0.494 $\pm$ 0.377 χ^2 /NDF: 4375.3/43

All: 0.495 $\pm$ 0.273 χ^2 /NDF: 8621.3/84

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.617 ± 0.634 χ^2/NDF : 792.0/34

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 9.692 ± 0.601 χ^2/NDF : 521.9/37

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

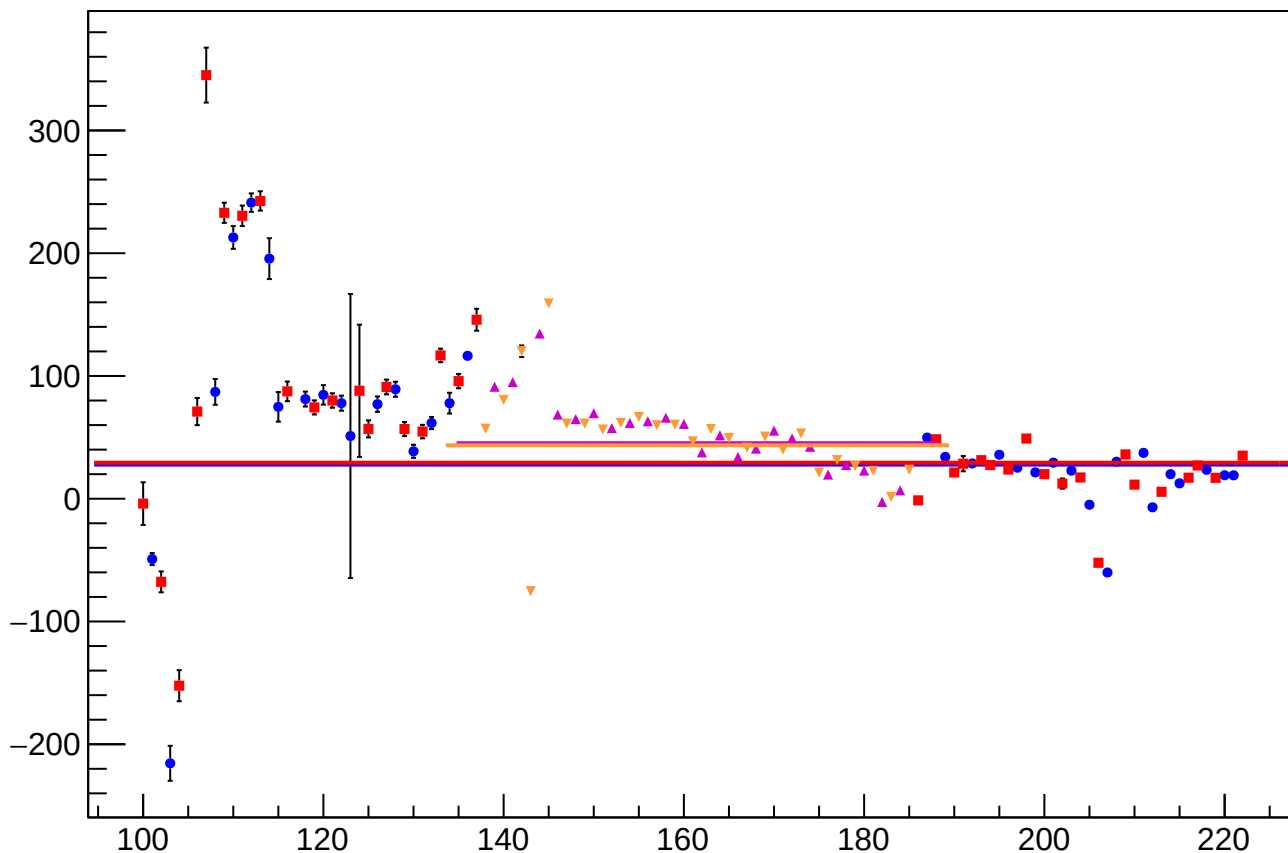
Right: 9.183 ± 0.436 χ^2/NDF : 1315.4/72

In: 6.547 ± 0.341 χ^2/NDF : 1131.1/57

Out: 6.038 ± 0.328 χ^2/NDF : 946.4/62

All: 6.283 ± 0.237 χ^2/NDF : 2078.6/120

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.833+/-0.575 χ^2/NDF : 4368.4/34

Left Out: 43.524+/-0.498 χ^2/NDF :3830.7/24

Right Out: 29.325+/-0.504 χ^2/NDF : 5492.5/37

Left In: 45.211+/-0.504 χ^2/NDF :3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

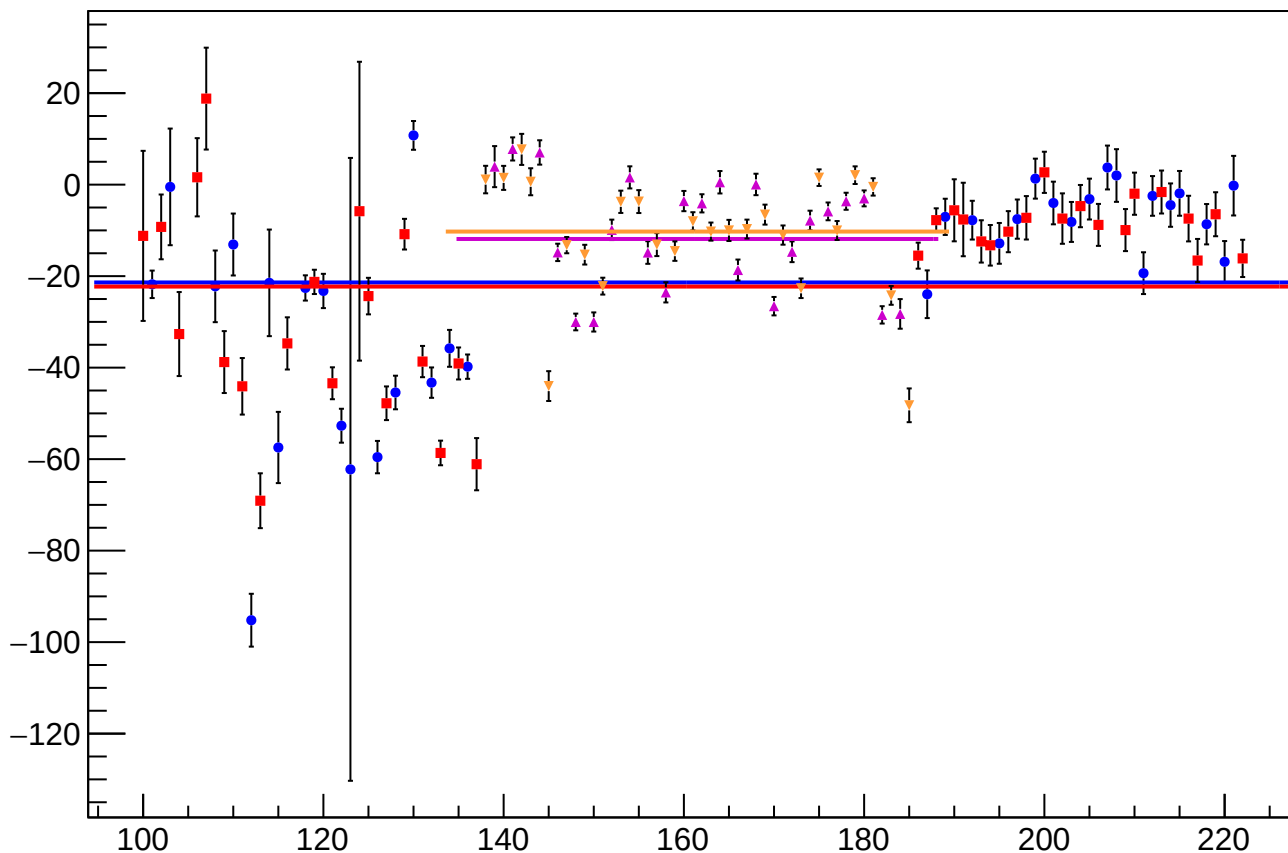
Right: 28.676+/-0.379 χ^2/NDF : 9864.7/72

In: 37.652+/-0.379 χ^2/NDF :7933.4/57

Out: 36.510+/-0.355 χ^2/NDF :9724.1/62

All: 37.043+/-0.259 χ^2/NDF : 17662.4/120

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.382 ± 0.729 χ^2/NDF : 845.4/34

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -22.278 ± 0.715 χ^2/NDF : 685.9/37

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

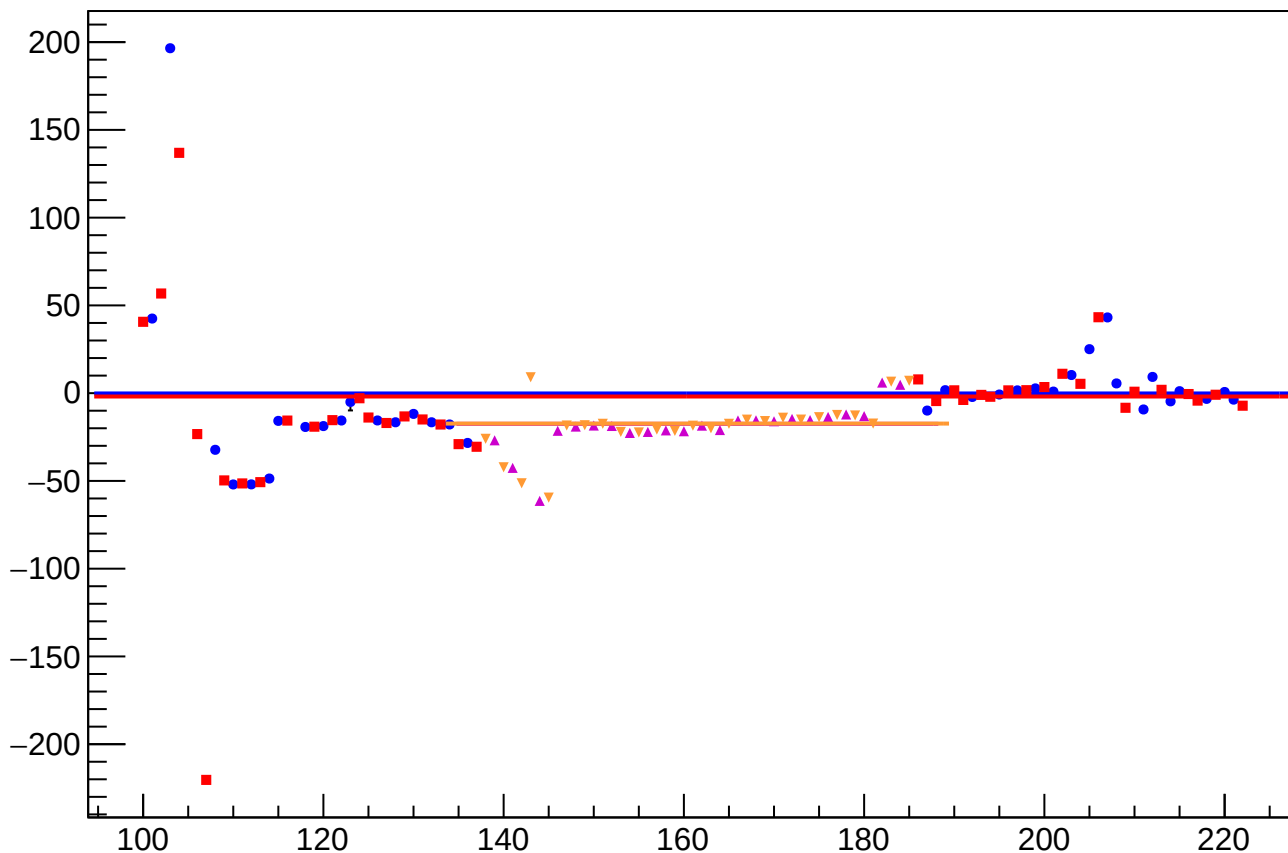
Right: -21.839 ± 0.511 χ^2/NDF : 1532.1/72

In: -14.549 ± 0.387 χ^2/NDF : 1633.7/57

Out: -13.606 ± 0.377 χ^2/NDF : 1442.4/62

All: -14.066 ± 0.270 χ^2/NDF : 3079.2/120

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.170 ± 0.035 χ^2/NDF : 678557.2/34

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.907 ± 0.034 χ^2/NDF : 672892.9/37

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

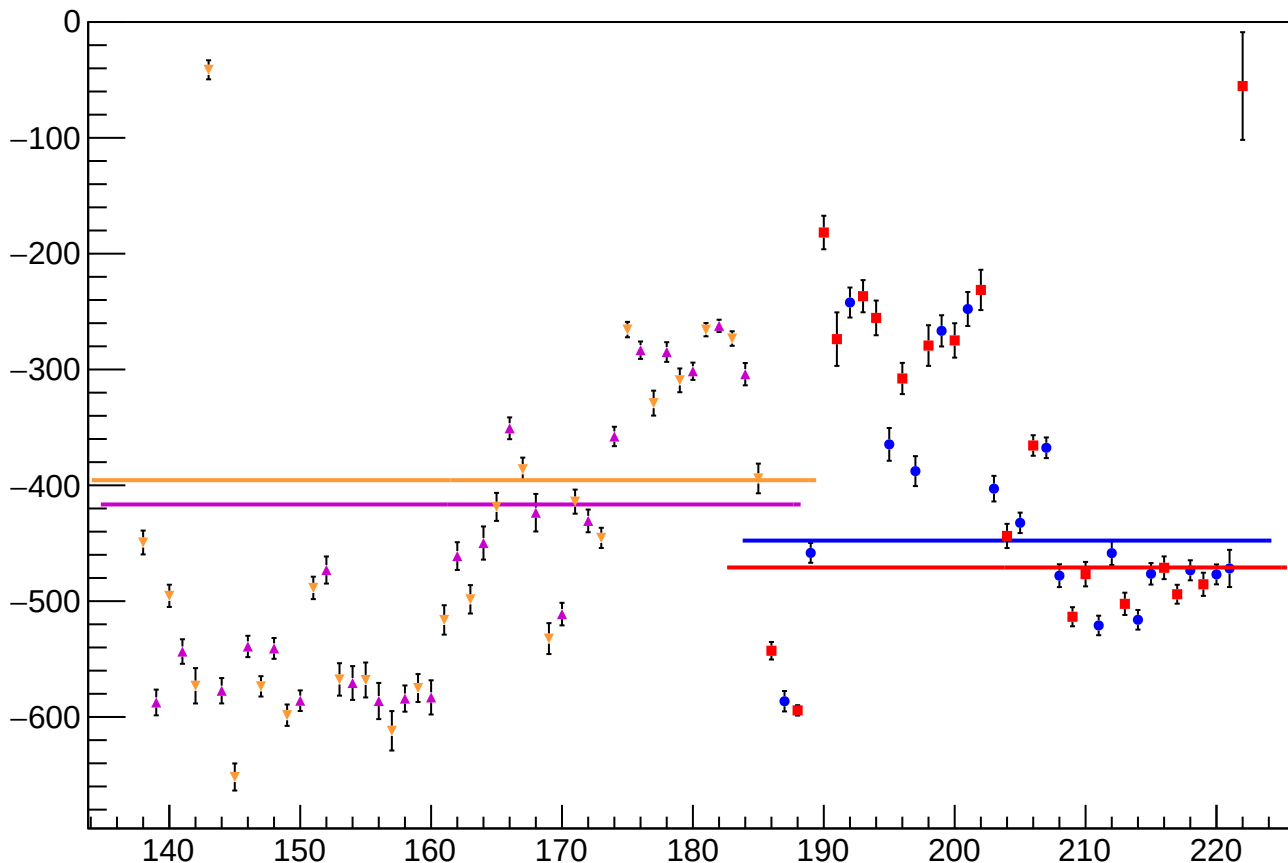
Right: -1.060 ± 0.024 χ^2/NDF : 1352729.1/72

In: -12.968 ± 0.018 χ^2/NDF : 1121056.0/57

Out: -13.232 ± 0.017 χ^2/NDF : 1150091.1/62

All: -13.102 ± 0.012 χ^2/NDF : 2271259.3/120

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -447.711 ± 2.374 $\chi^2/\text{NDF}: 1206.2/17$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -470.923 ± 2.280 $\chi^2/\text{NDF}: 2716.1/18$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

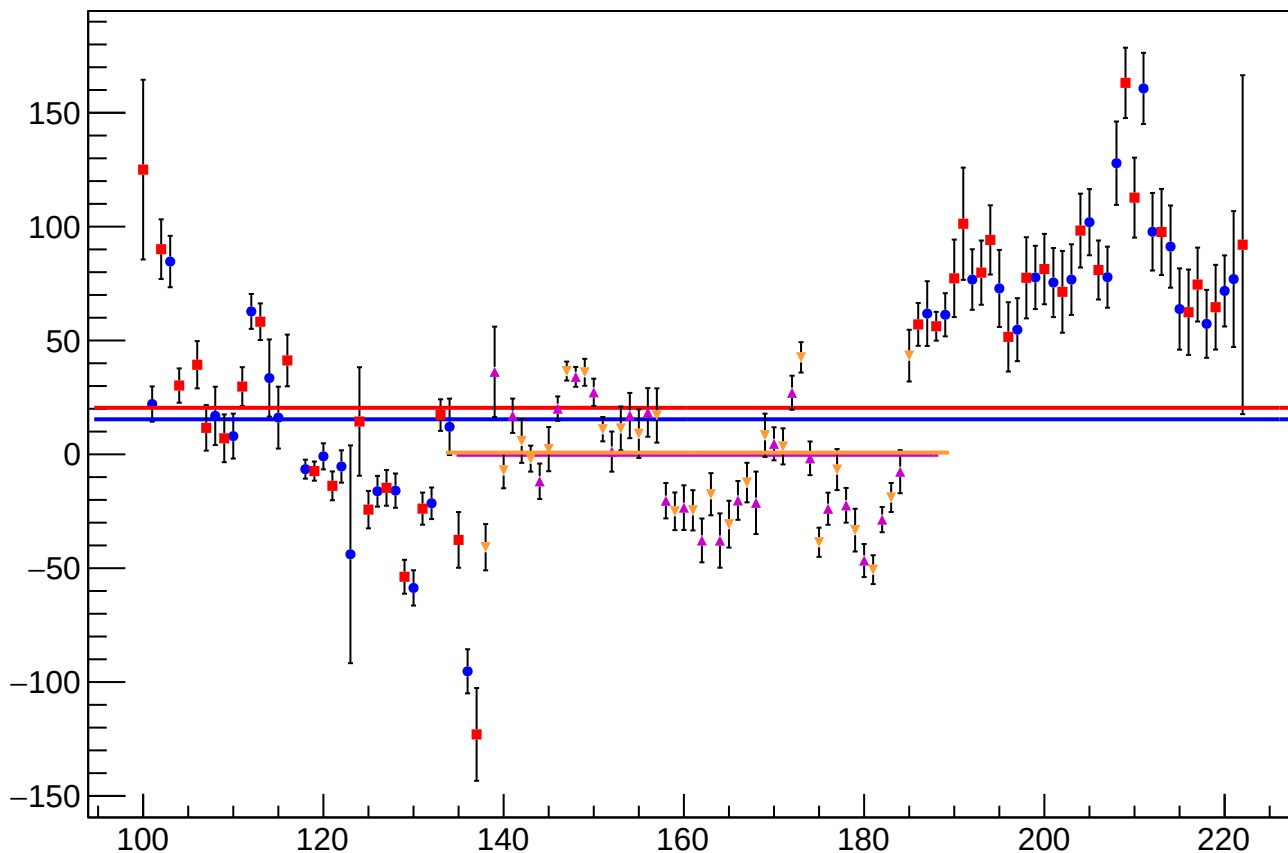
Right: -459.784 ± 1.644 $\chi^2/\text{NDF}: 3972.0/36$

In: -429.506 ± 1.532 $\chi^2/\text{NDF}: 5223.9/40$

Out: -427.454 ± 1.483 $\chi^2/\text{NDF}: 9292.9/43$

All: -428.447 ± 1.066 $\chi^2/\text{NDF}: 14517.7/84$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.398 ± 1.690 $\chi^2/\text{NDF}: 795.3/34$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 20.436 ± 1.650 $\chi^2/\text{NDF}: 749.2/37$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

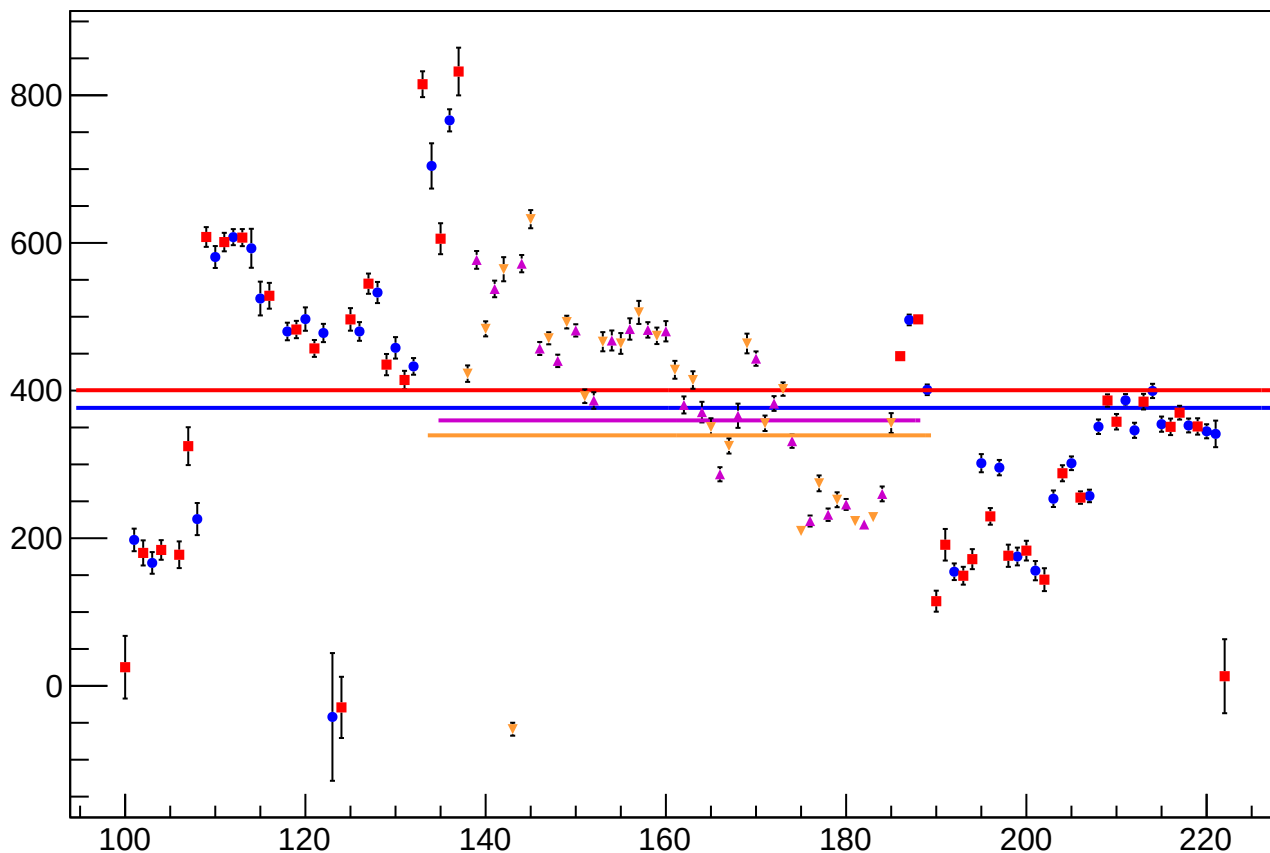
Right: 17.977 ± 1.180 $\chi^2/\text{NDF}: 1549.0/72$

In: 7.052 ± 1.152 $\chi^2/\text{NDF}: 1101.7/57$

Out: 9.685 ± 1.111 $\chi^2/\text{NDF}: 1176.9/62$

All: 8.416 ± 0.800 $\chi^2/\text{NDF}: 2281.3/120$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 376.565 $\pm$ 1.954 χ^2 /NDF: 4158.6/34

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 400.480 $\pm$ 1.801 χ^2 /NDF: 6224.8/37

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

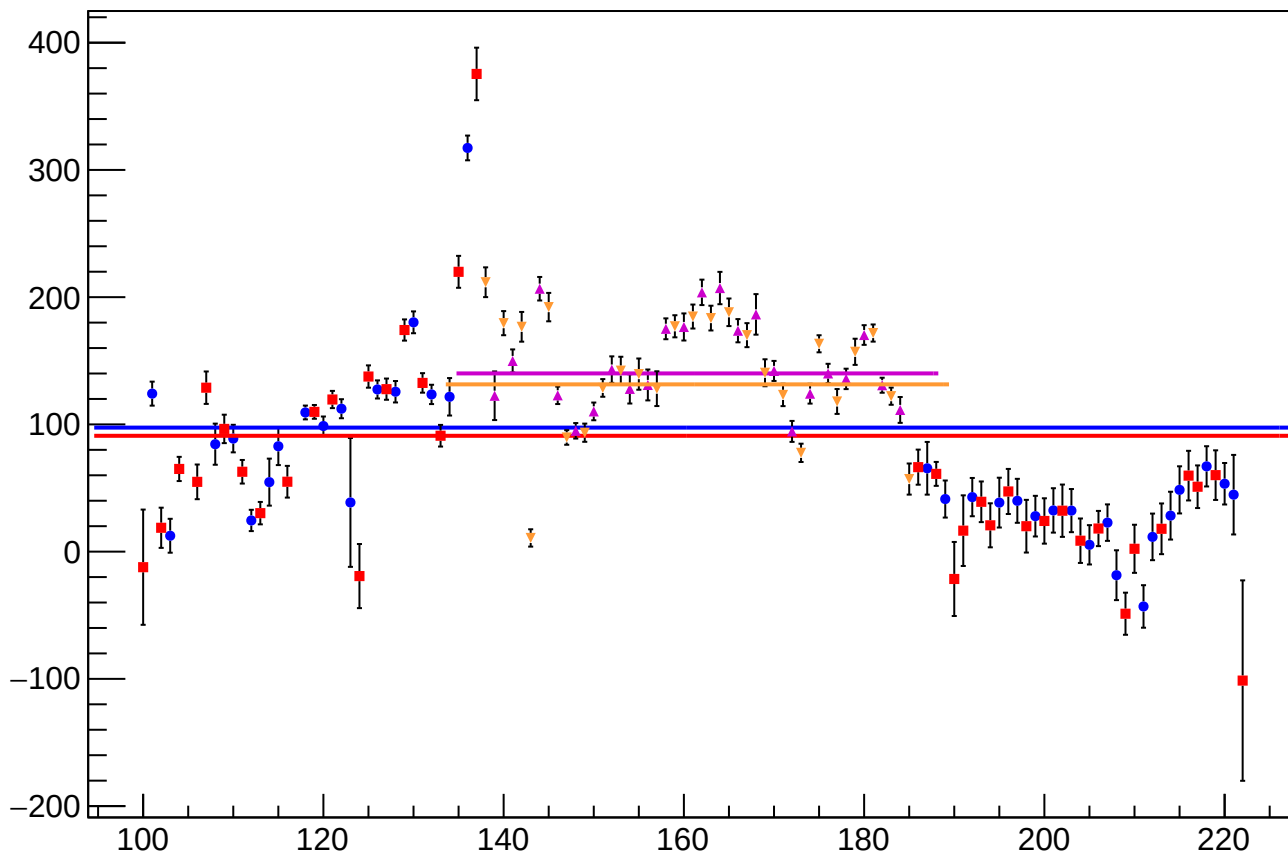
Right: 389.497 $\pm$ 1.324 χ^2 /NDF: 10464.4/72

In: 368.294 $\pm$ 1.399 χ^2 /NDF:7593.8/57

Out: 372.537 $\pm$ 1.327 χ^2 /NDF:12253.9/62

All: 370.527 $\pm$ 0.963 χ^2 /NDF: 19852.5/120

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 97.480 ± 1.954 $\chi^2/\text{NDF}: 1113.2/34$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 91.041 ± 1.929 $\chi^2/\text{NDF}: 912.2/37$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

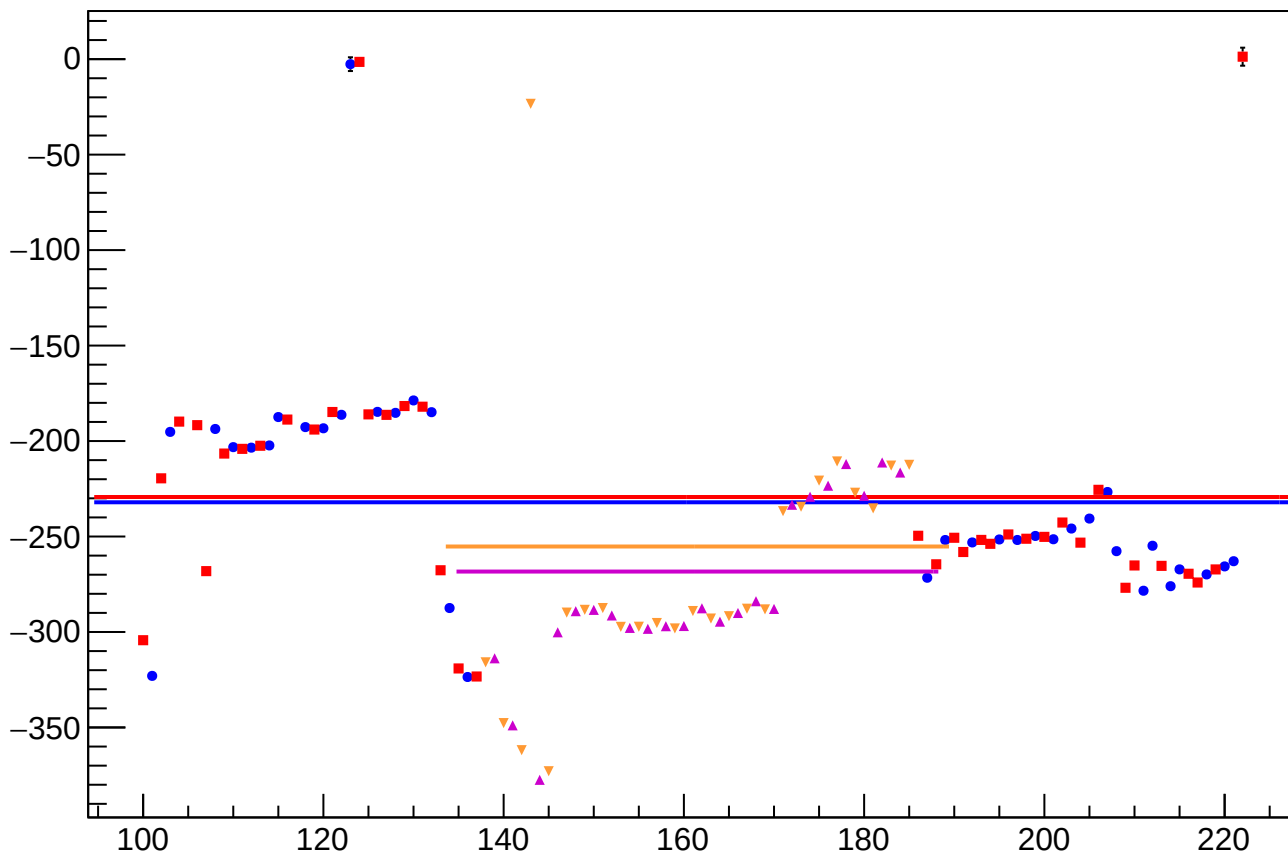
Right: 94.219 ± 1.373 $\chi^2/\text{NDF}: 2030.9/72$

In: 120.579 ± 1.322 $\chi^2/\text{NDF}: 1687.3/57$

Out: 113.475 ± 1.287 $\chi^2/\text{NDF}: 1965.2/62$

All: 116.932 ± 0.922 $\chi^2/\text{NDF}: 3667.4/120$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -232.073 ± 0.104 $\chi^2/\text{NDF}: 179865.8/34$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -229.312 ± 0.100 $\chi^2/\text{NDF}: 163431.9/37$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

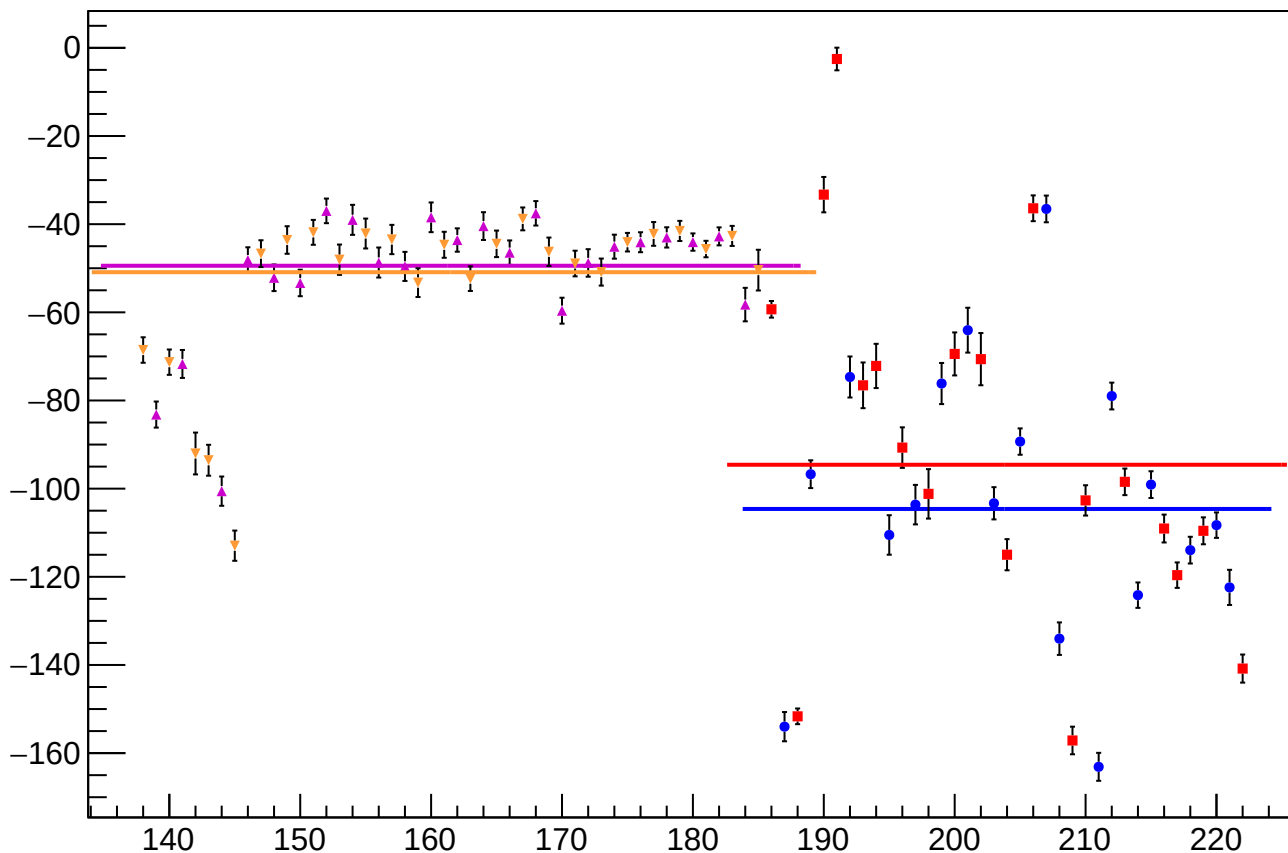
Right: -230.640 ± 0.072 $\chi^2/\text{NDF}: 343664.3/72$

In: -254.087 ± 0.065 $\chi^2/\text{NDF}: 516359.3/57$

Out: -244.816 ± 0.063 $\chi^2/\text{NDF}: 931640.0/62$

All: -249.325 ± 0.045 $\chi^2/\text{NDF}: 1458404.6/12$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -104.607 ± 0.811 χ^2/NDF : 1458.0/17

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -94.578 ± 0.715 χ^2/NDF : 4136.6/18

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

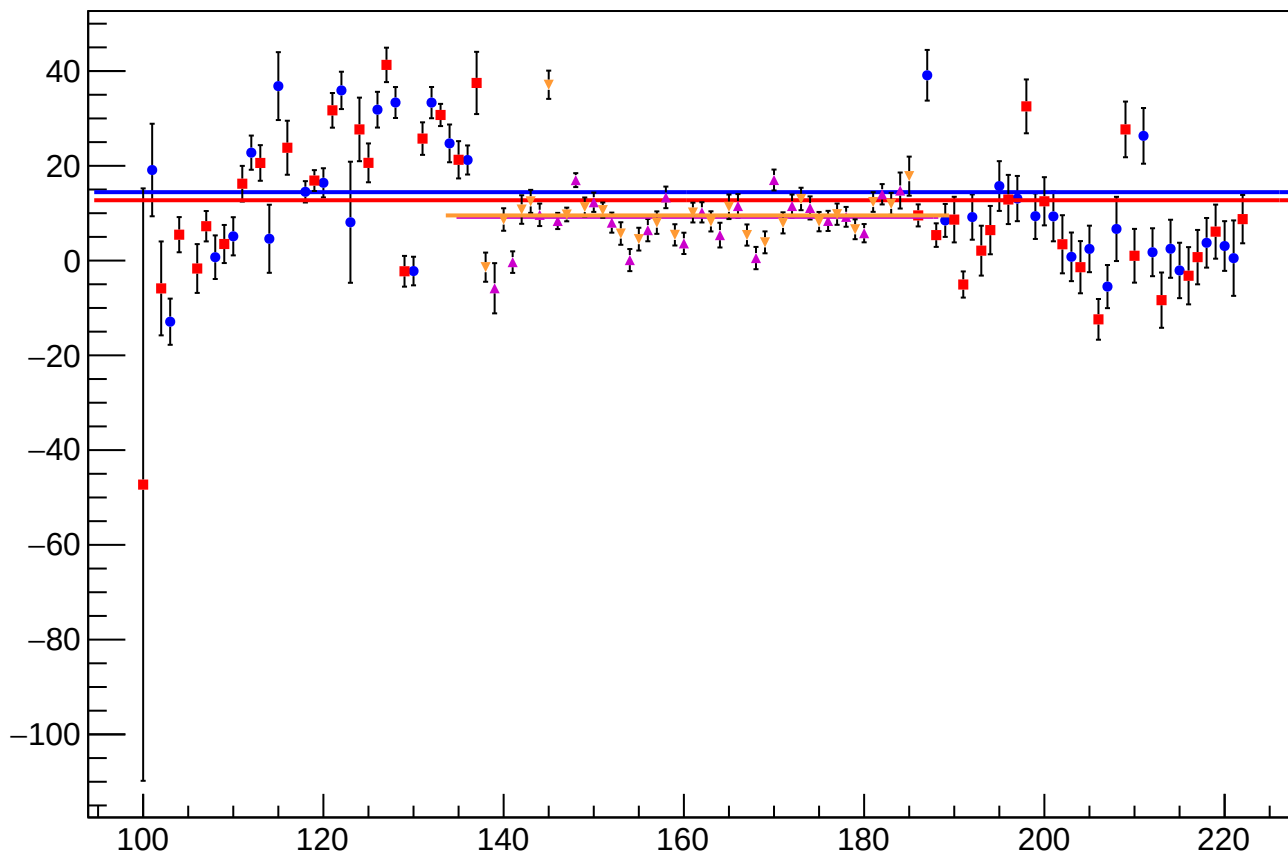
Right: -98.964 ± 0.536 χ^2/NDF : 5680.5/36

In: -68.264 ± 0.474 χ^2/NDF : 5048.8/40

Out: -67.968 ± 0.447 χ^2/NDF : 7170.6/43

All: -68.107 ± 0.325 χ^2/NDF : 12219.7/84

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.442 $\pm$ 0.732 χ^2 /NDF: 318.2/34

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 12.735 $\pm$ 0.649 χ^2 /NDF: 398.6/37

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

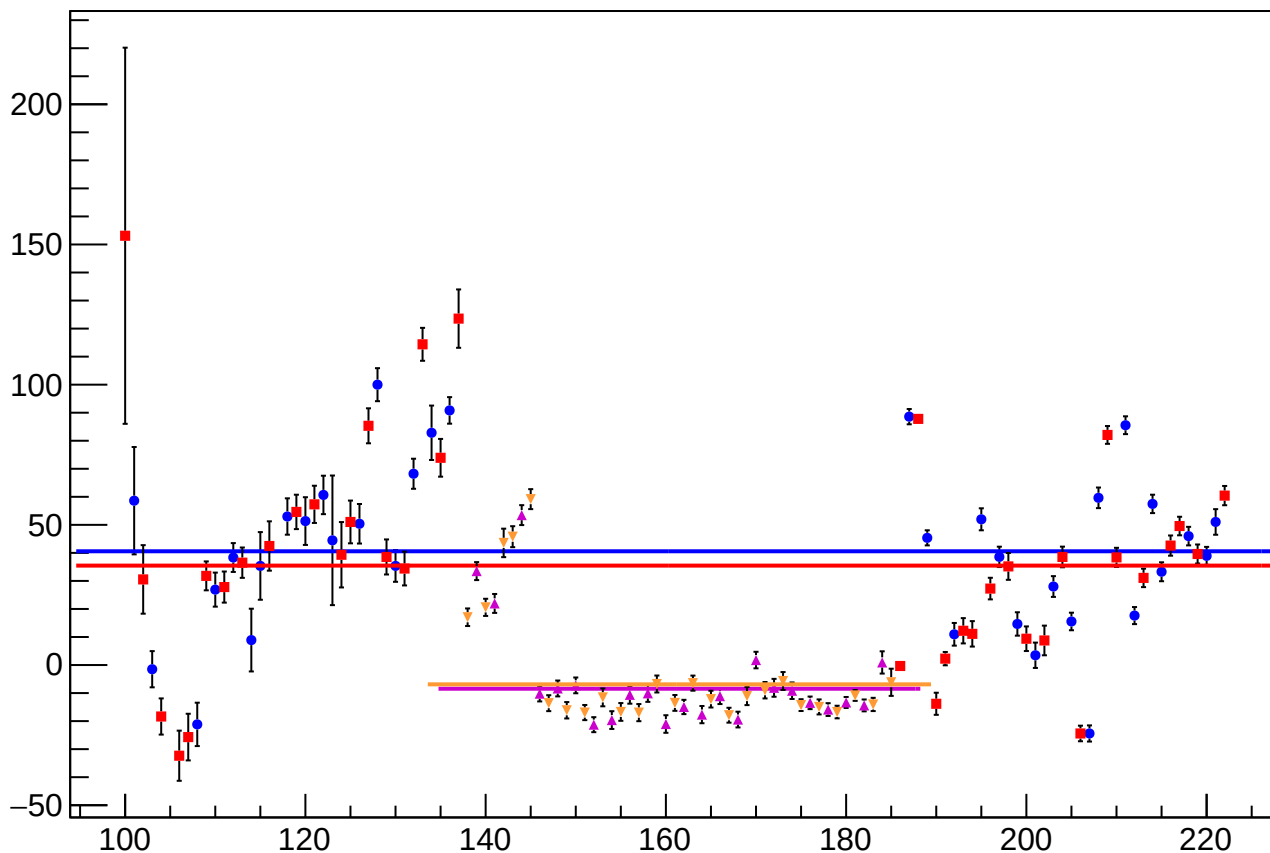
Right: 13.487 $\pm$ 0.486 χ^2 /NDF: 719.9/72

In: 10.715 $\pm$ 0.390 χ^2 /NDF:478.4/57

Out: 10.557 $\pm$ 0.368 χ^2 /NDF:549.5/62

All: 10.632 $\pm$ 0.268 χ^2 /NDF: 1028.1/120

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.576 $\pm$ 0.720 χ^2 /NDF: 1786.3/34

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 35.463 $\pm$ 0.612 χ^2 /NDF: 3681.2/37

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

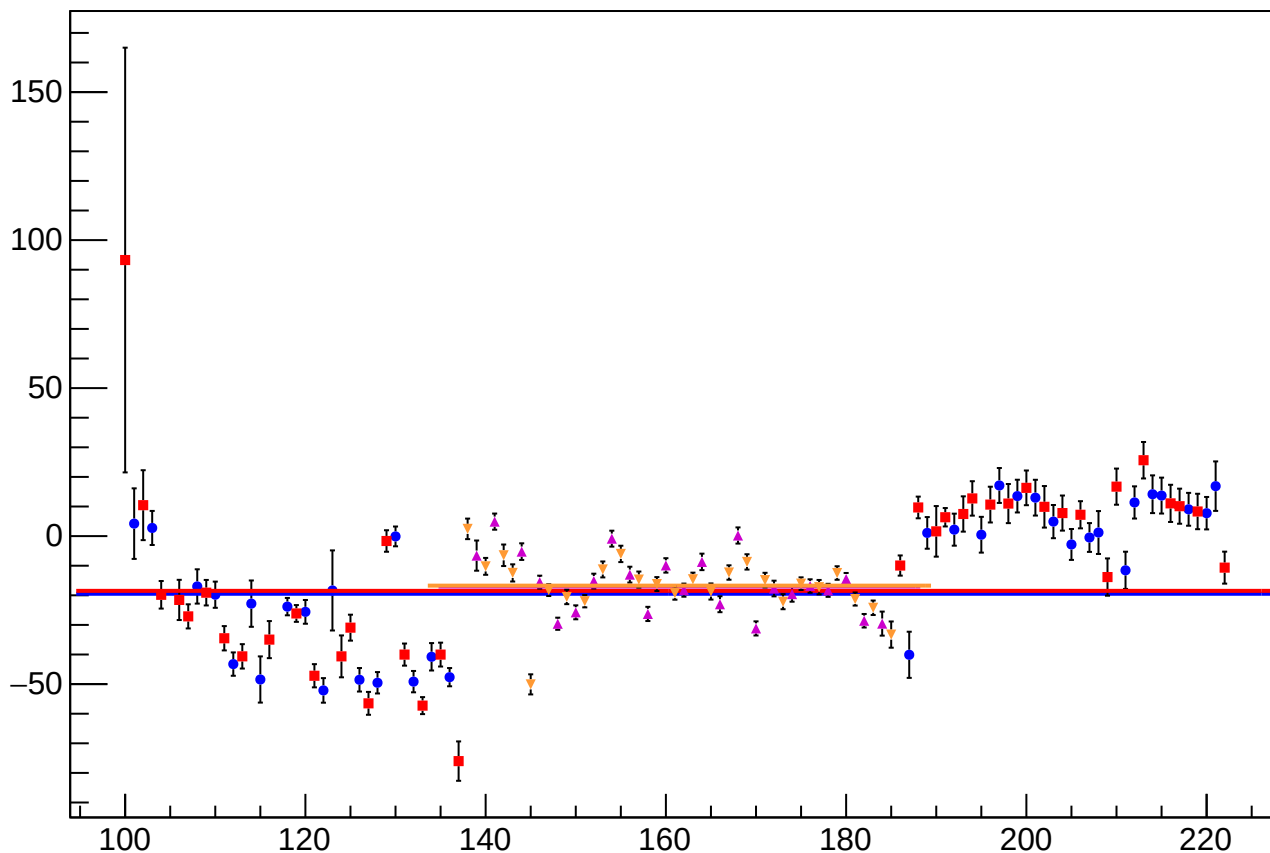
Right: 37.608 $\pm$ 0.466 χ^2 /NDF: 5496.8/72

In: 10.833 $\pm$ 0.452 χ^2 /NDF: 5287.6/57

Out: 12.817 $\pm$ 0.418 χ^2 /NDF: 7155.2/62

All: 11.903 $\pm$ 0.307 χ^2 /NDF: 12453.2/120

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -19.475 ± 0.834 χ^2/NDF : 830.3/34

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -18.494 ± 0.763 χ^2/NDF : 1060.9/37

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

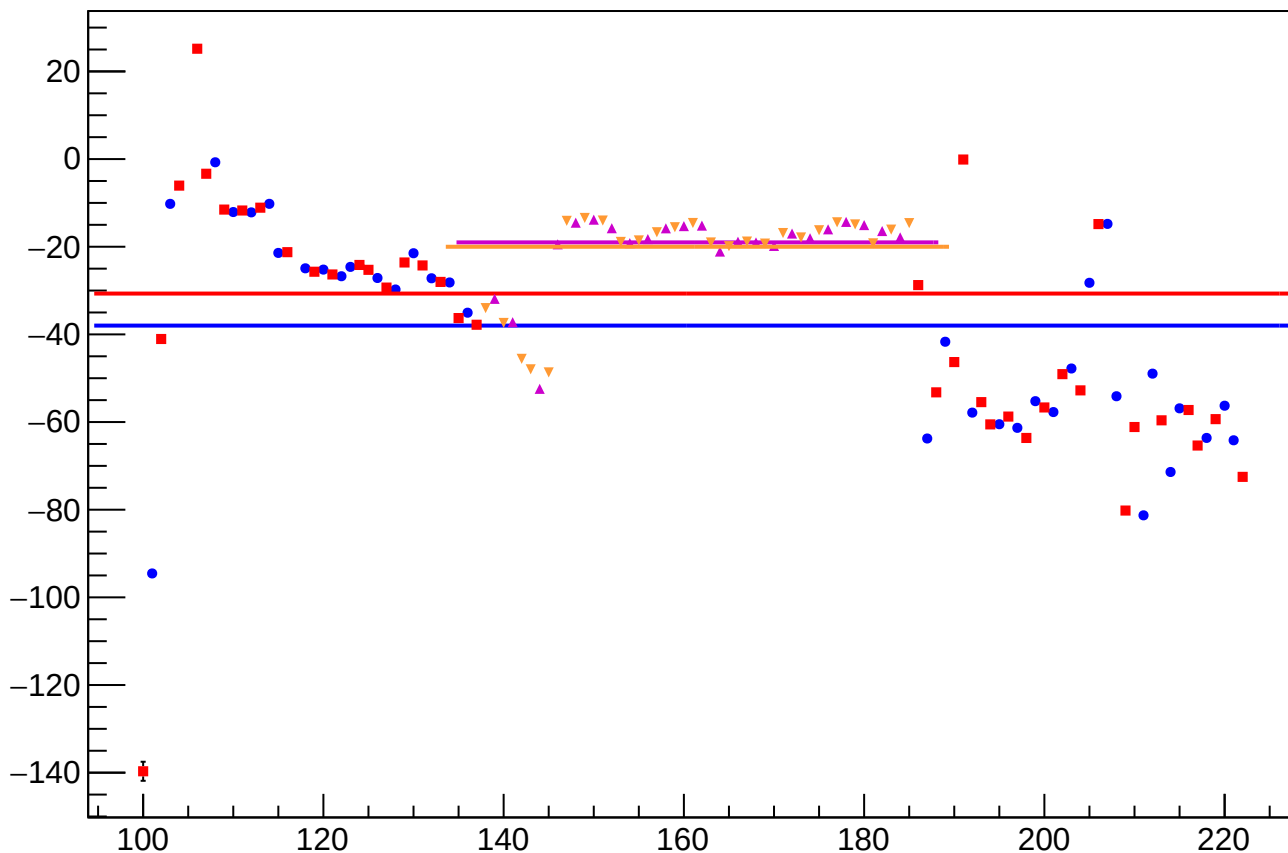
Right: -18.941 ± 0.563 χ^2/NDF : 1892.0/72

In: -17.713 ± 0.442 χ^2/NDF : 1164.1/57

Out: -17.273 ± 0.422 χ^2/NDF : 1287.9/62

All: -17.482 ± 0.305 χ^2/NDF : 2452.5/120

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.993 $\pm$ 0.040 χ^2 /NDF: 271462.9/34

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF:145623.8/24

Right Out: -30.685 $\pm$ 0.035 χ^2 /NDF: 509399.9/37

Left In: -19.007 $\pm$ 0.024 χ^2 /NDF:90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2 /NDF: 237400.2/47

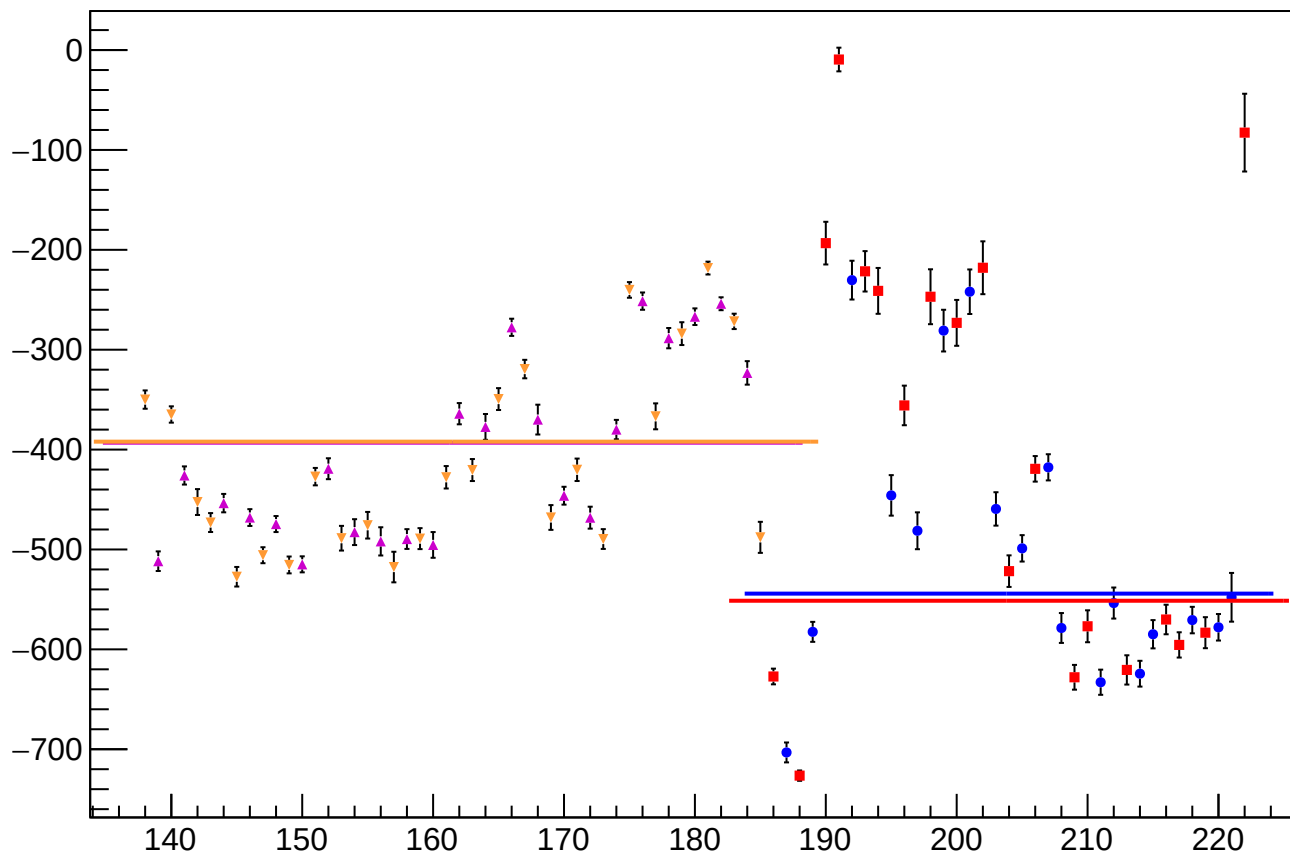
Right: -33.899 $\pm$ 0.026 χ^2 /NDF: 799617.2/72

In: -23.942 $\pm$ 0.020 χ^2 /NDF:529522.0/57

Out: -23.235 $\pm$ 0.019 χ^2 /NDF:718550.9/62

All: -23.572 $\pm$ 0.014 χ^2 /NDF: 1248704.2/120

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -544.206 ± 3.401 $\chi^2/\text{NDF}: 1151.7/17$

Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$

Right Out: -551.336 ± 2.947 $\chi^2/\text{NDF}: 4915.6/18$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

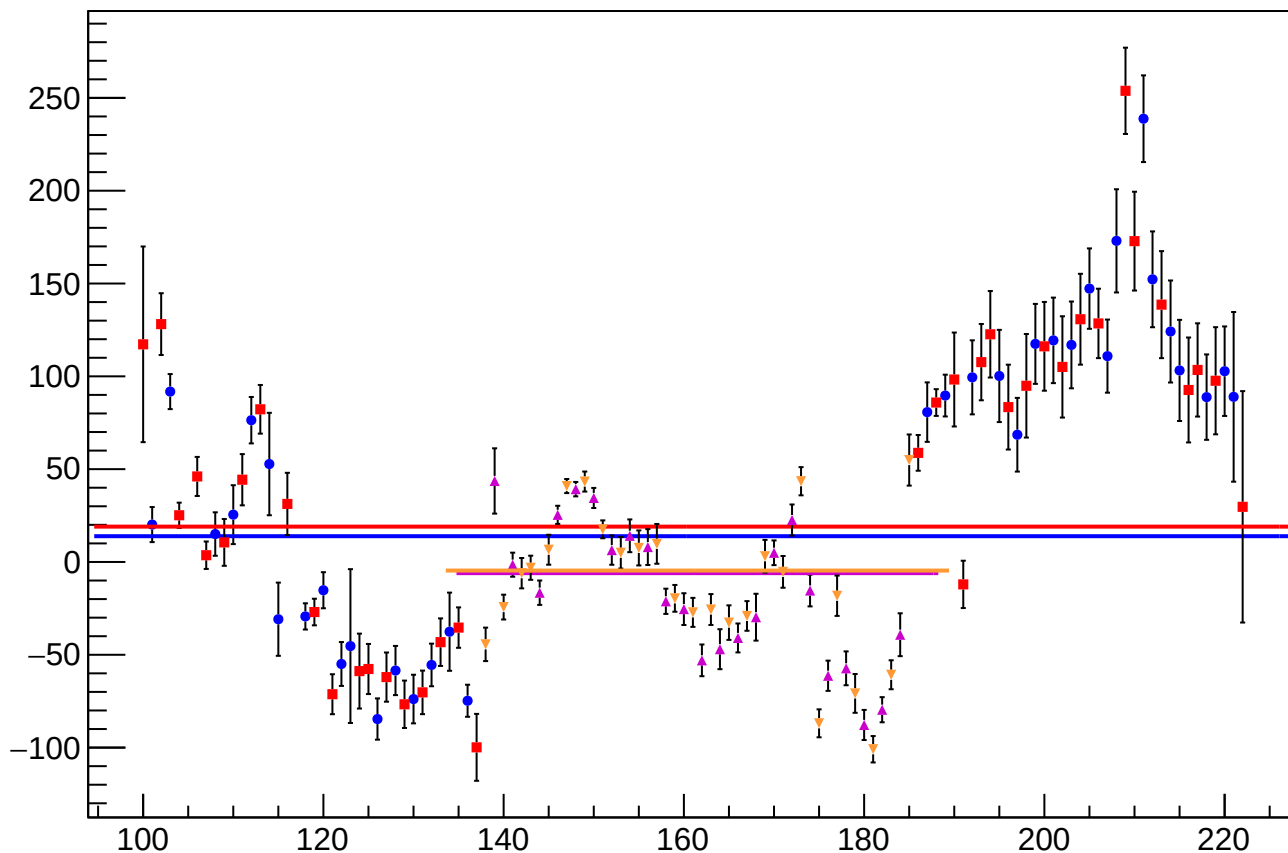
Right: -548.277 ± 2.227 $\chi^2/\text{NDF}: 6069.8/36$

In: -432.101 ± 1.727 $\chi^2/\text{NDF}: 4869.6/40$

Out: -441.122 ± 1.636 $\chi^2/\text{NDF}: 9653.6/43$

All: -436.857 ± 1.188 $\chi^2/\text{NDF}: 14537.6/84$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.880 ± 2.457 $\chi^2/\text{NDF}: 919.3/34$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 19.041 ± 2.192 $\chi^2/\text{NDF}: 920.5/37$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

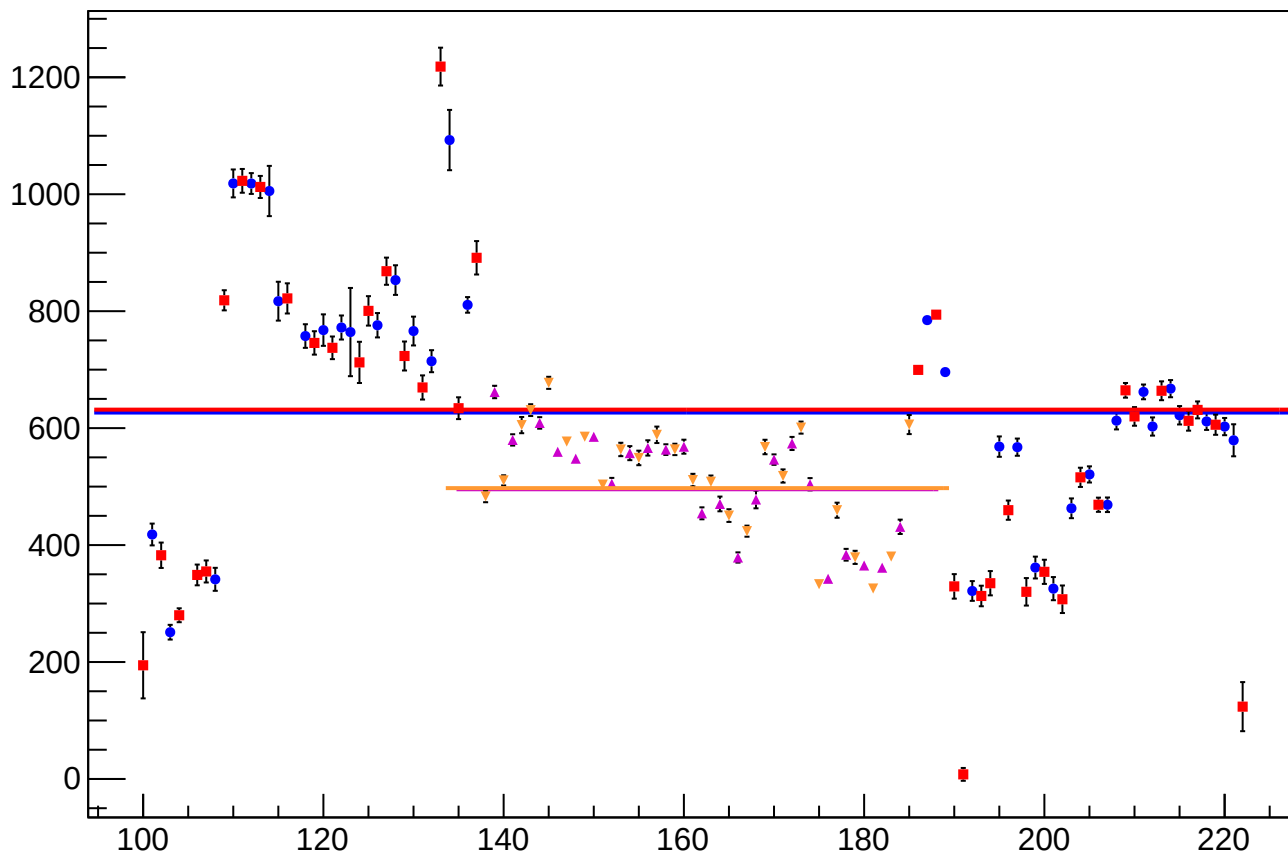
Right: 16.754 ± 1.635 $\chi^2/\text{NDF}: 1842.3/72$

In: -0.530 ± 1.290 $\chi^2/\text{NDF}: 1620.9/57$

Out: 2.666 ± 1.216 $\chi^2/\text{NDF}: 1774.1/62$

All: 1.162 ± 0.885 $\chi^2/\text{NDF}: 3398.2/120$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 626.648 $\pm$ 2.726 χ^2 /NDF: 4237.6/34

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 631.631 $\pm$ 2.295 χ^2 /NDF: 9783.4/37

Left In: 495.454 $\pm$ 1.992 χ^2 /NDF:2253.8/22

Left: 496.430 $\pm$ 1.399 χ^2 /NDF: 4868.9/47

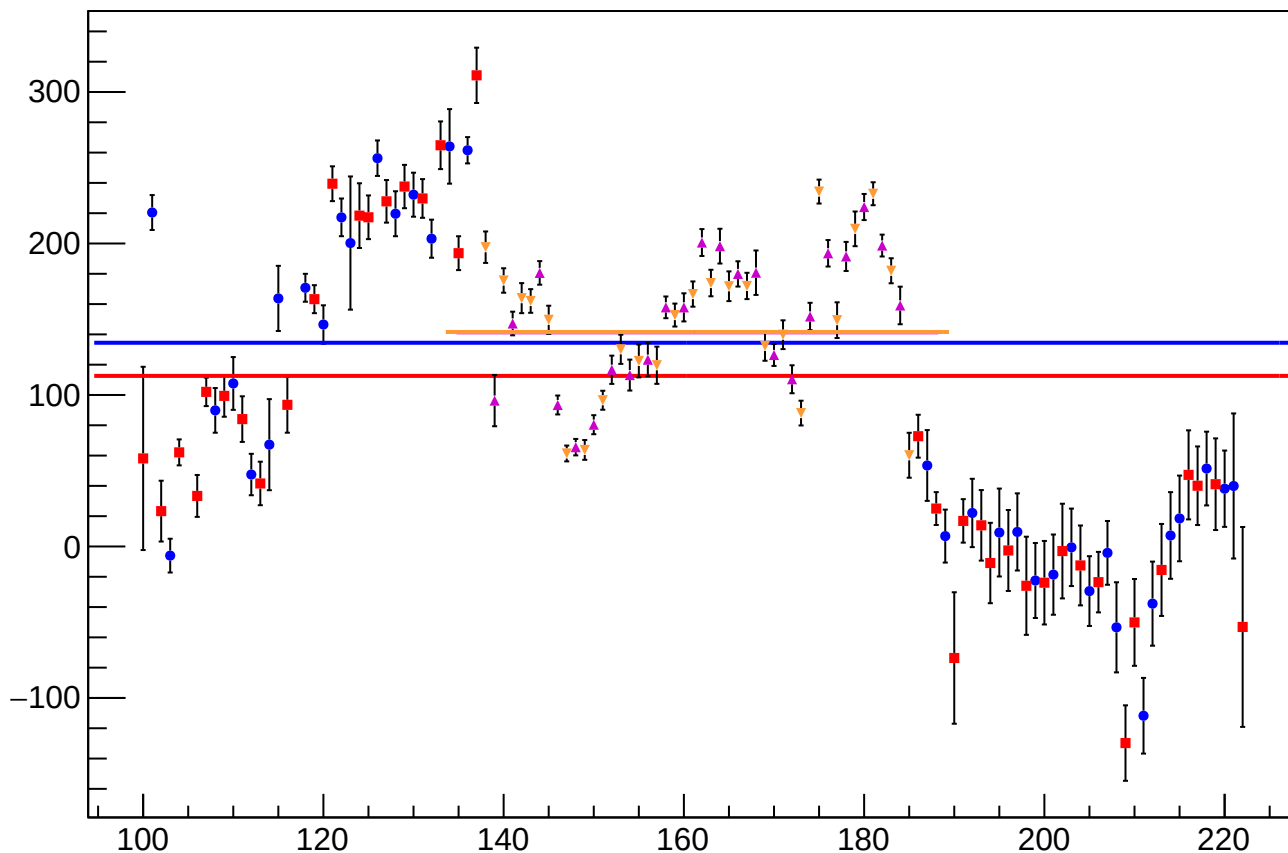
Right: 629.565 $\pm$ 1.756 χ^2 /NDF: 14022.9/72

In: 541.120 $\pm$ 1.609 χ^2 /NDF:8000.9/57

Out: 554.209 $\pm$ 1.493 χ^2 /NDF:14372.0/62

All: 548.151 $\pm$ 1.094 χ^2 /NDF: 22408.5/120

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 134.476 $\pm$ 2.844 χ^2 /NDF: 1366.0/34

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 112.611 $\pm$ 2.613 χ^2 /NDF: 1329.2/37

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

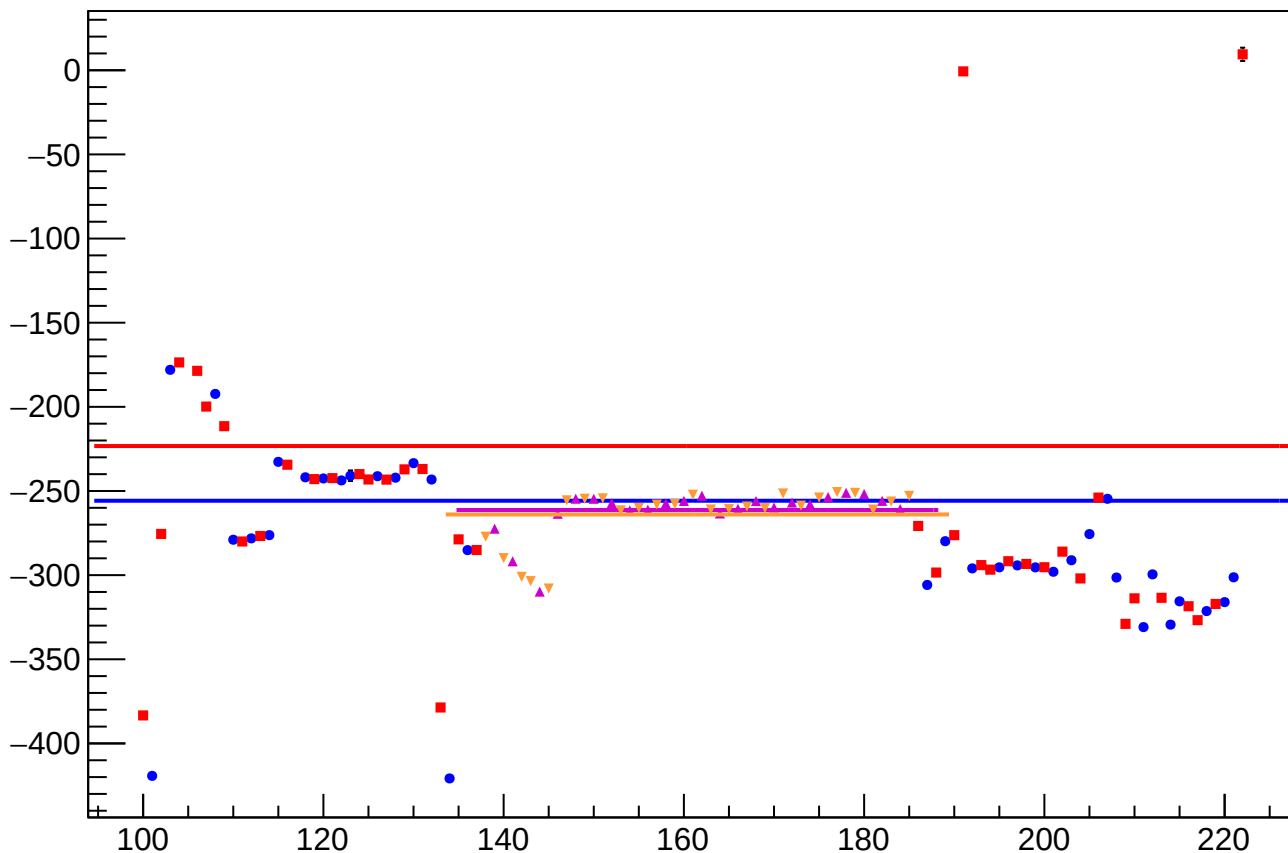
Right: 122.622 $\pm$ 1.924 χ^2 /NDF: 2727.3/72

In: 139.472 $\pm$ 1.489 χ^2 /NDF:2111.5/57

Out: 132.983 $\pm$ 1.424 χ^2 /NDF:2375.3/62

All: 136.083 $\pm$ 1.029 χ^2 /NDF: 4496.7/120

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -255.794 $\pm$ 0.133 χ^2 /NDF: 210966.8/34

Left Out: -263.943 $\pm$ 0.081 χ^2 /NDF: 39085.0/24

Right Out: -223.293 $\pm$ 0.120 χ^2 /NDF: 524434.4/37

Left In: -261.286 $\pm$ 0.082 χ^2 /NDF: 23348.4/22

Left: -262.627 $\pm$ 0.058 χ^2 /NDF: 62963.4/47

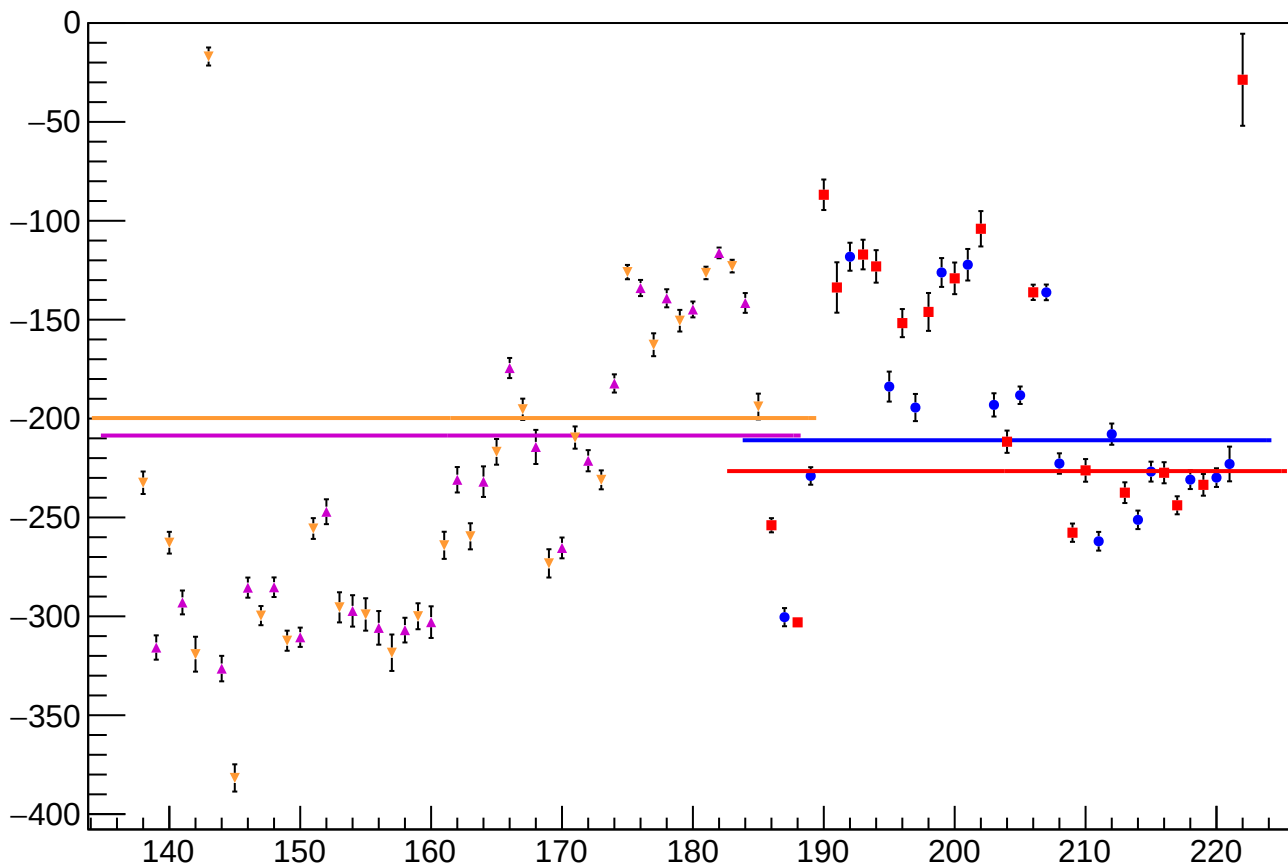
Right: -237.931 $\pm$ 0.089 χ^2 /NDF: 768191.5/72

In: -259.775 $\pm$ 0.070 χ^2 /NDF: 235550.2/57

Out: -251.232 $\pm$ 0.067 χ^2 /NDF: 641797.6/62

All: -255.352 $\pm$ 0.048 χ^2 /NDF: 885106.1/120

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -210.966+/-1.251 χ^2 /NDF: 1480.1/17

Left Out: -199.741+/-1.061 χ^2 /NDF:6361.5/24

Right Out: -226.562+/-1.195 χ^2 /NDF: 3059.7/18

Left In: -208.579+/-1.082 χ^2 /NDF:4805.1/22

Left: -204.073+/-0.758 χ^2 /NDF: 11200.6/47

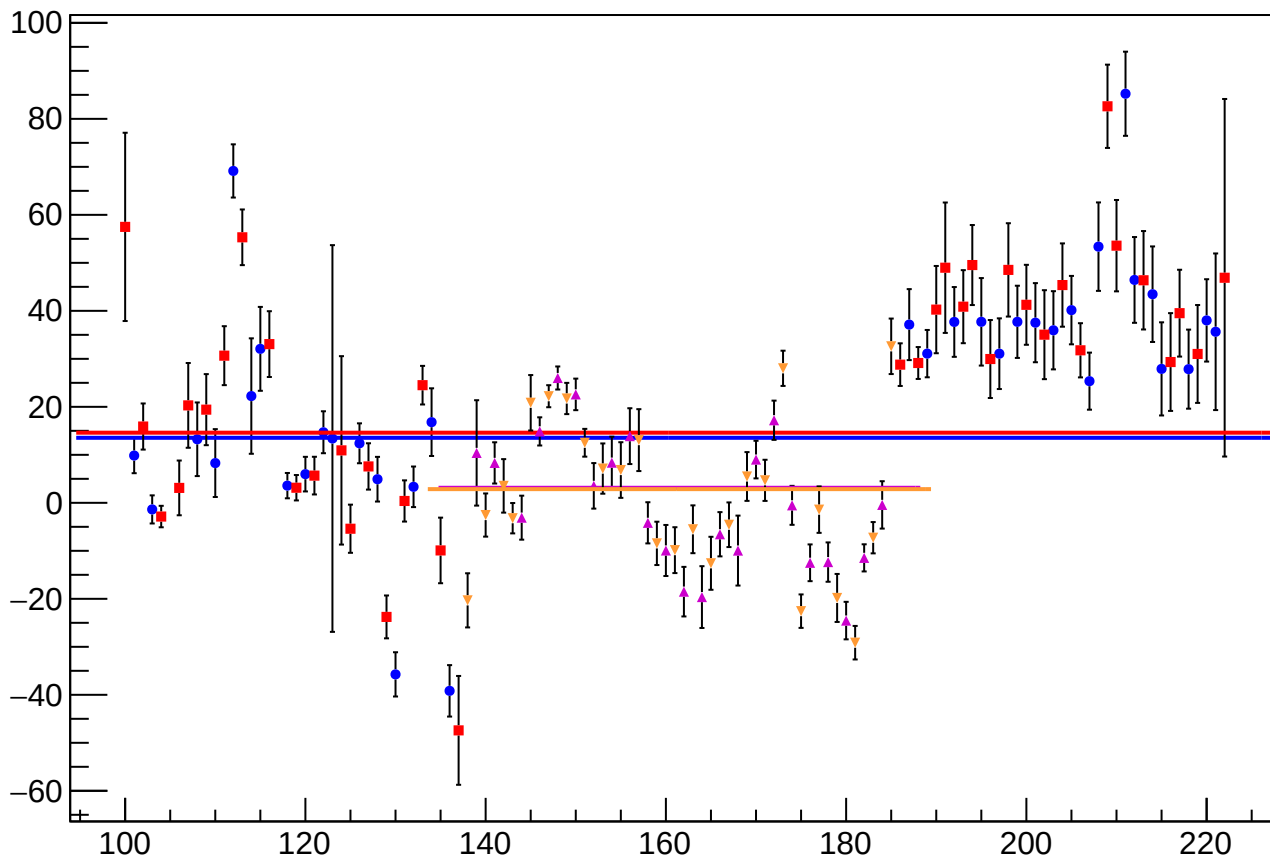
Right: -219.119+/-0.864 χ^2 /NDF: 4621.1/36

In: -209.601+/-0.818 χ^2 /NDF:6287.3/40

Out: -211.567+/-0.793 χ^2 /NDF:9702.9/43

All: -210.614+/-0.570 χ^2 /NDF: 15993.1/84

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.549 $\pm$ 0.949 χ^2 /NDF: 586.6/34

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.614 $\pm$ 0.903 χ^2 /NDF: 536.4/37

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

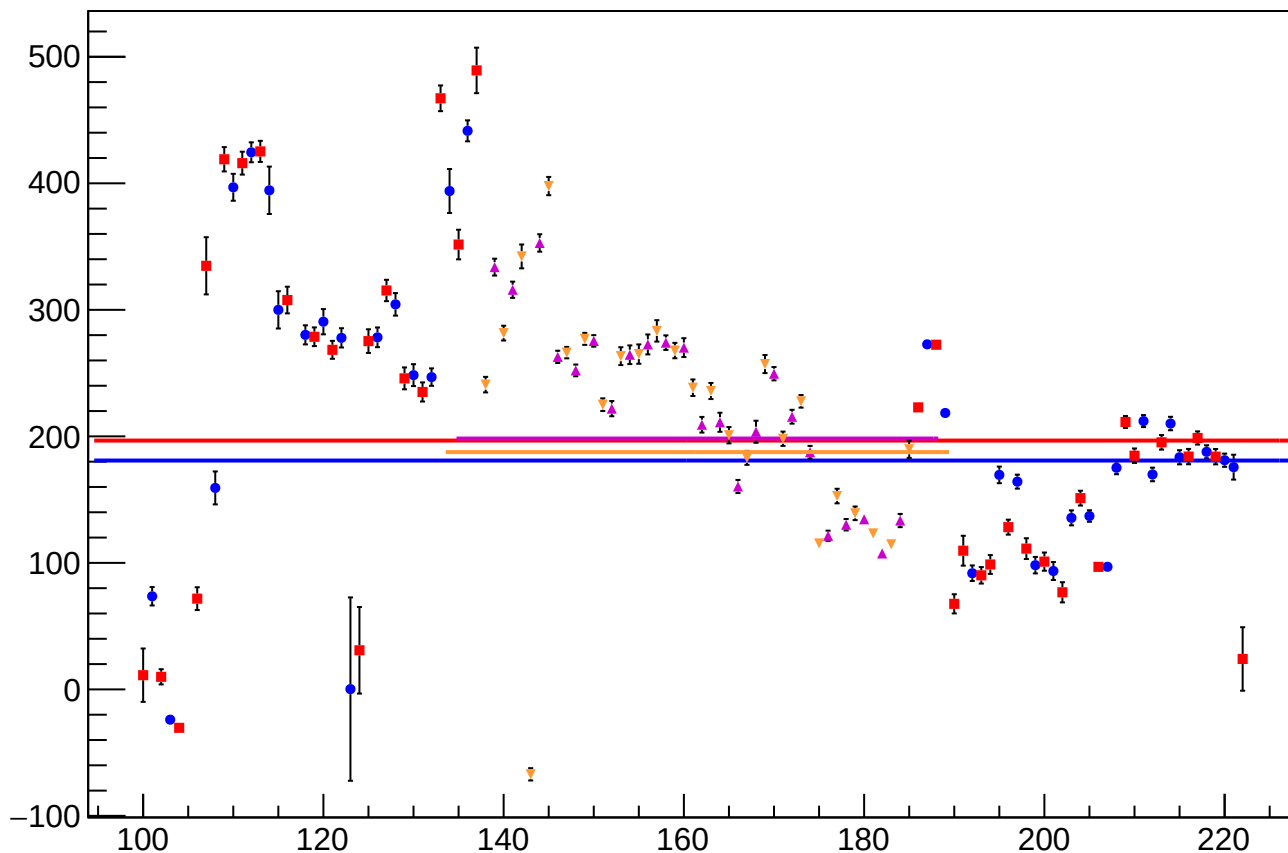
Right: 14.108 $\pm$ 0.654 χ^2 /NDF: 1123.7/72

In: 7.810 $\pm$ 0.636 χ^2 /NDF: 972.7/57

Out: 8.168 $\pm$ 0.607 χ^2 /NDF: 1049.2/62

All: 7.997 $\pm$ 0.439 χ^2 /NDF: 2022.1/120

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.898 $\pm$ 1.033 χ^2 /NDF: 8772.2/34

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 196.675 $\pm$ 0.948 χ^2 /NDF: 12201.9/37

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

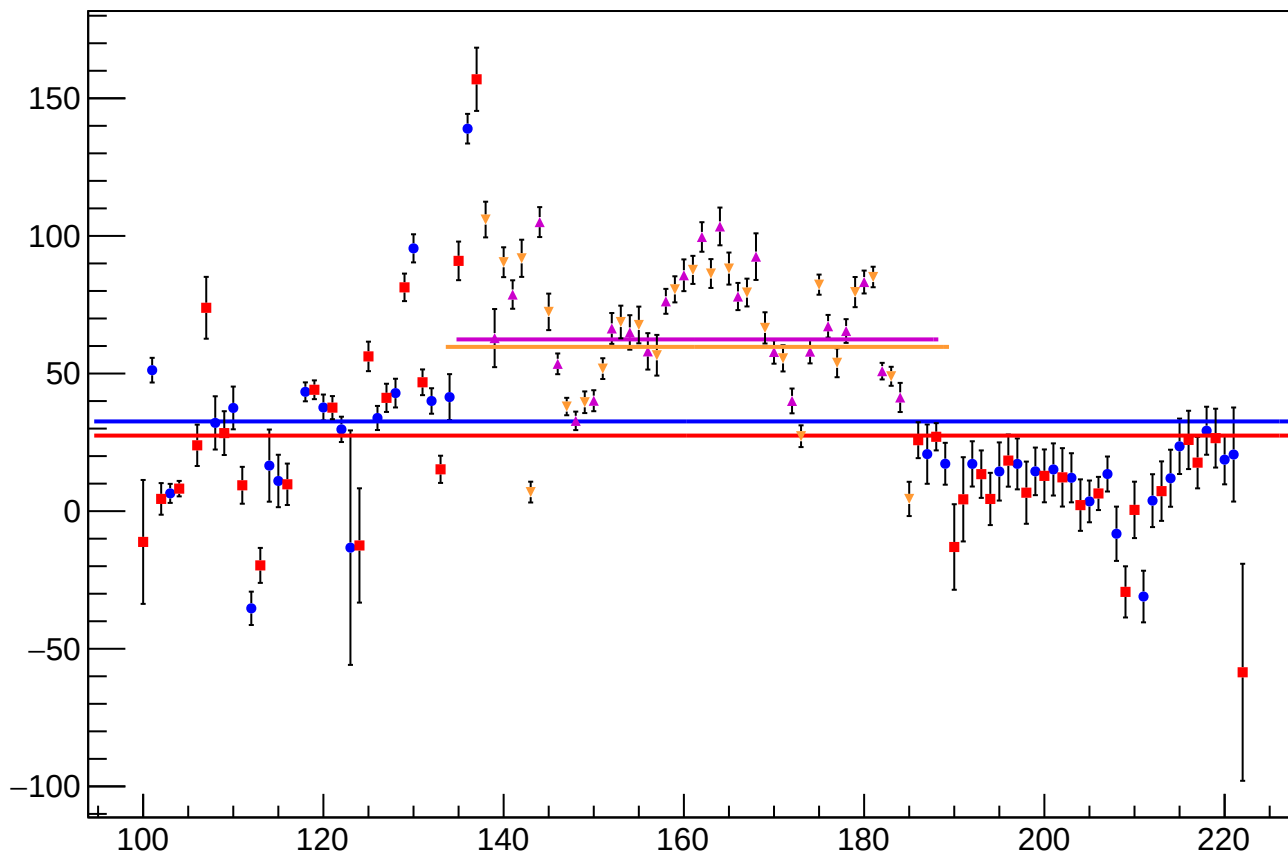
Right: 189.464 $\pm$ 0.699 χ^2 /NDF: 21100.6/72

In: 189.188 $\pm$ 0.747 χ^2 /NDF: 13422.8/57

Out: 192.651 $\pm$ 0.708 χ^2 /NDF: 19324.7/62

All: 191.012 $\pm$ 0.514 χ^2 /NDF: 32758.8/120

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.601 $\pm$ 1.100 χ^2 /NDF: 900.3/34

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.456 $\pm$ 1.071 χ^2 /NDF: 668.1/37

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF: 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

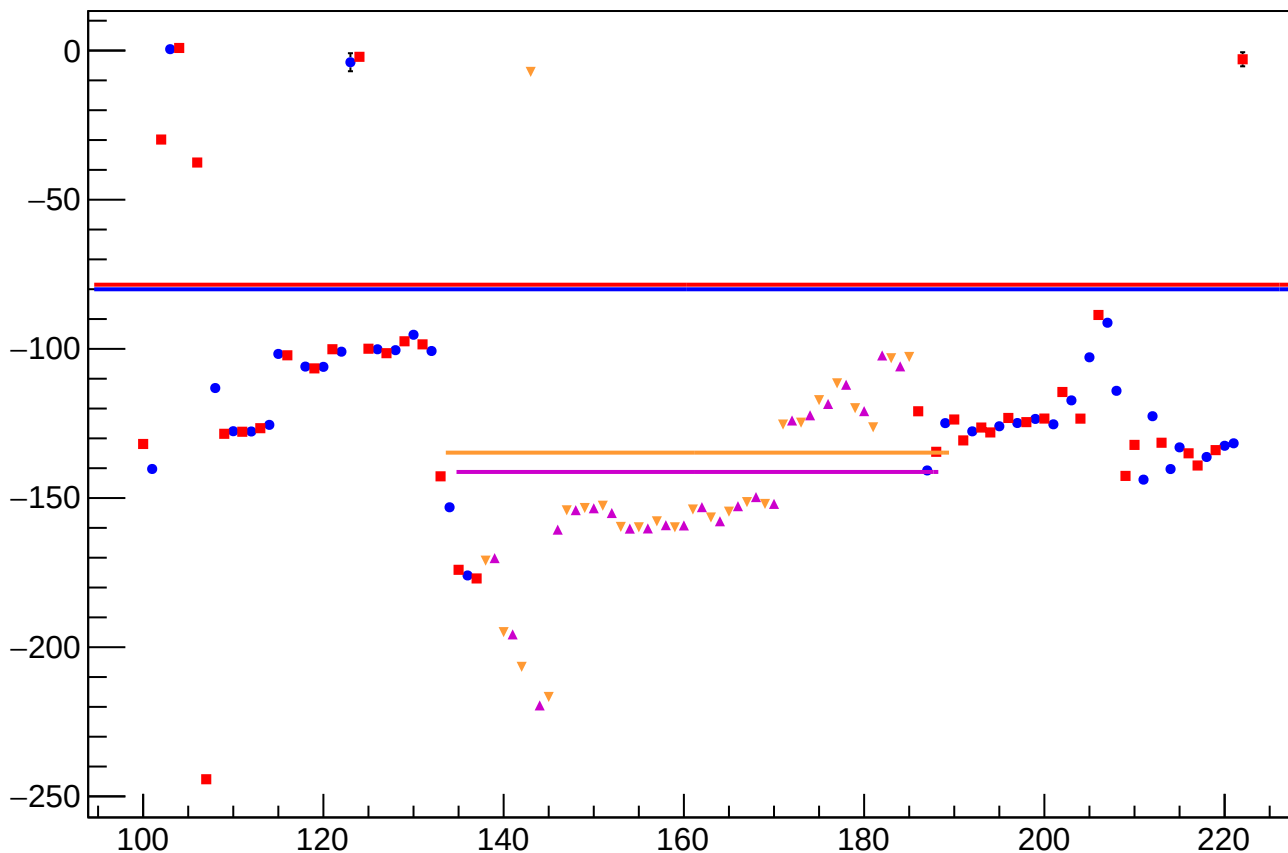
Right: 29.959 $\pm$ 0.767 χ^2 /NDF: 1579.6/72

In: 49.304 $\pm$ 0.729 χ^2 /NDF: 1717.8/57

Out: 45.647 $\pm$ 0.707 χ^2 /NDF: 1936.8/62

All: 47.418 $\pm$ 0.508 χ^2 /NDF: 3667.5/120

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -80.029+/-0.050 χ^2/NDF : 1494365.4/34

Left Out: -134.780+/-0.045 χ^2/NDF : 804747.3/24

Right Out: -78.486+/-0.049 χ^2/NDF : 1472934.5/37

Left In: -141.255+/-0.045 χ^2/NDF : 347229.8/22

Left: -137.961+/-0.032 χ^2/NDF : 1162377.9/47

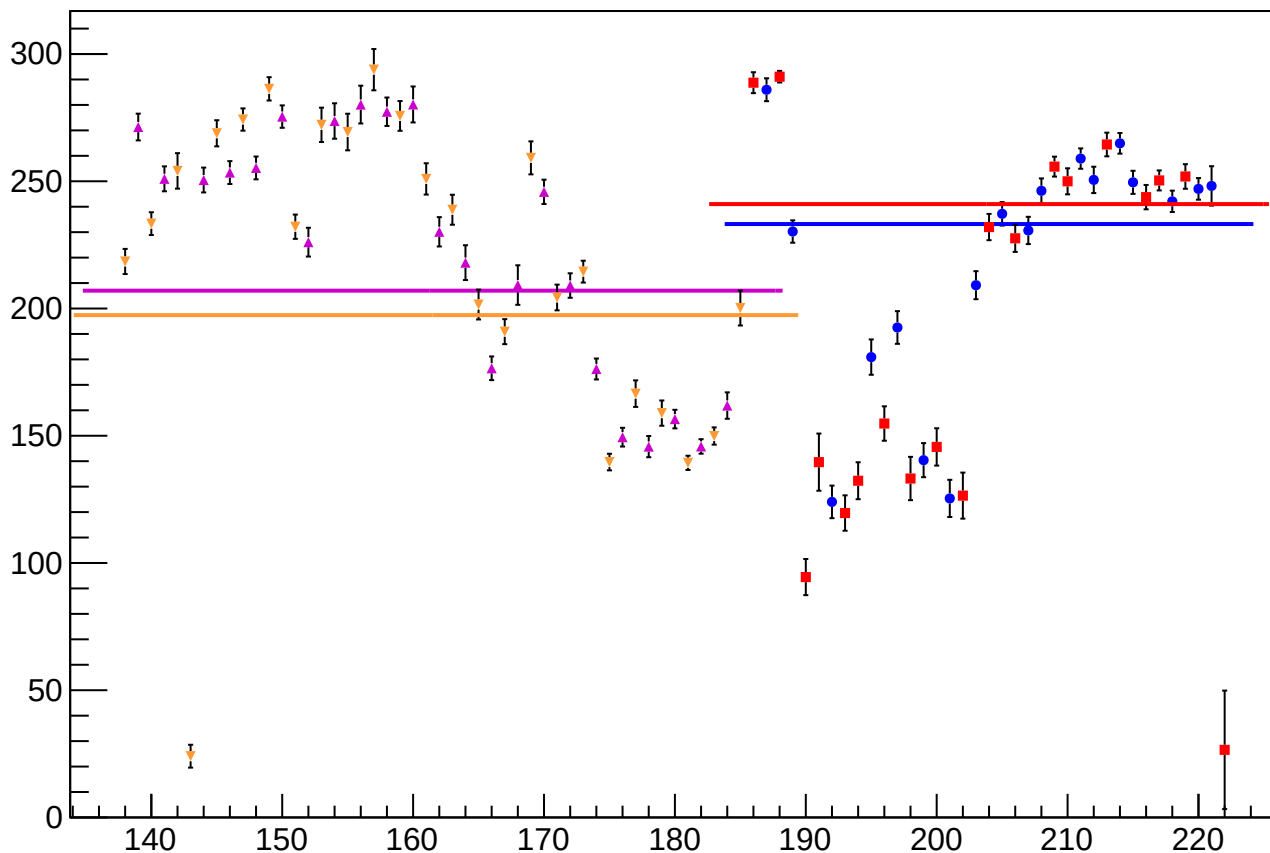
Right: -79.239+/-0.035 χ^2/NDF : 2967793.5/72

In: -113.476+/-0.033 χ^2/NDF : 2670746.8/57

Out: -109.063+/-0.033 χ^2/NDF : 3008668.4/62

All: -111.225+/-0.023 χ^2/NDF : 5688283.6/12

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 233.189 ± 1.189 $\chi^2/\text{NDF}: 1108.8/17$

Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$

Right Out: 241.034 ± 1.146 $\chi^2/\text{NDF}: 2454.1/18$

Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$

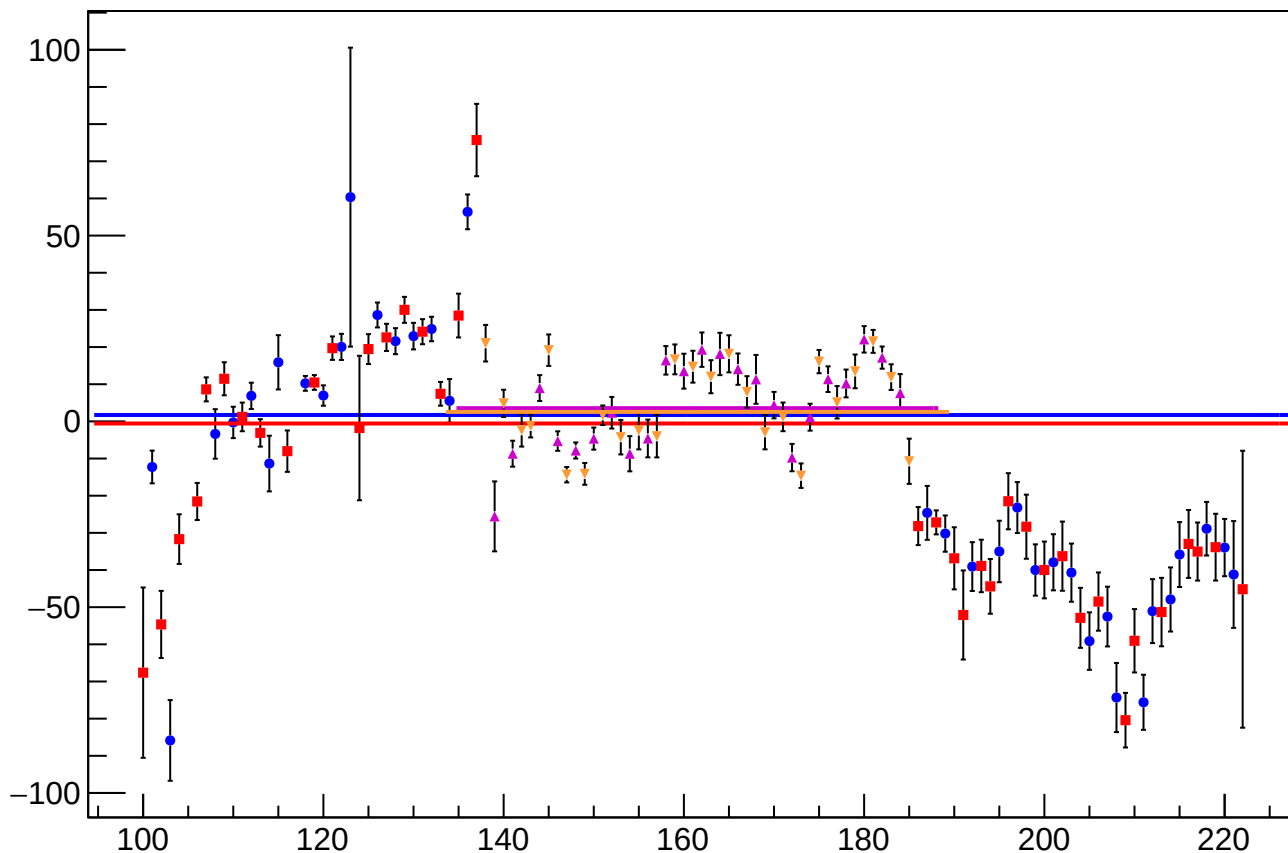
Right: 237.256 ± 0.825 $\chi^2/\text{NDF}: 3585.5/36$

In: 217.729 ± 0.761 $\chi^2/\text{NDF}: 4006.3/40$

Out: 215.453 ± 0.737 $\chi^2/\text{NDF}: 7687.4/43$

All: 216.555 ± 0.530 $\chi^2/\text{NDF}: 11698.3/84$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.724 ± 0.829 χ^2/NDF : 1095.7/34

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.569 ± 0.799 χ^2/NDF : 1041.2/37

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

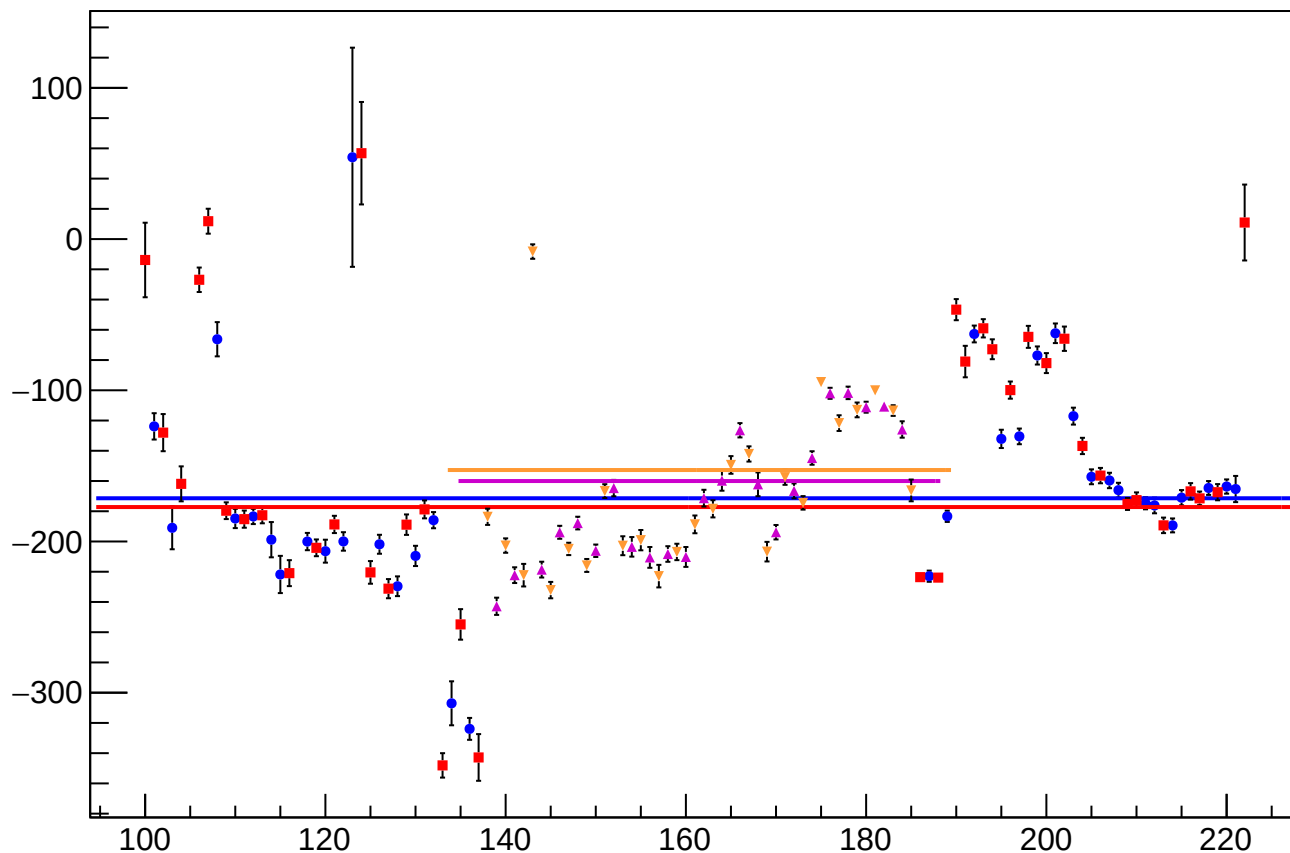
Right: 0.535 ± 0.575 χ^2/NDF : 2140.8/72

In: 2.705 ± 0.566 χ^2/NDF : 1290.3/57

Out: 1.107 ± 0.543 χ^2/NDF : 1324.8/62

All: 1.874 ± 0.392 χ^2/NDF : 2619.2/120

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.410 ± 0.977 χ^2/NDF : 2254.3/34

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -177.228 ± 0.900 χ^2/NDF : 4651.1/37

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

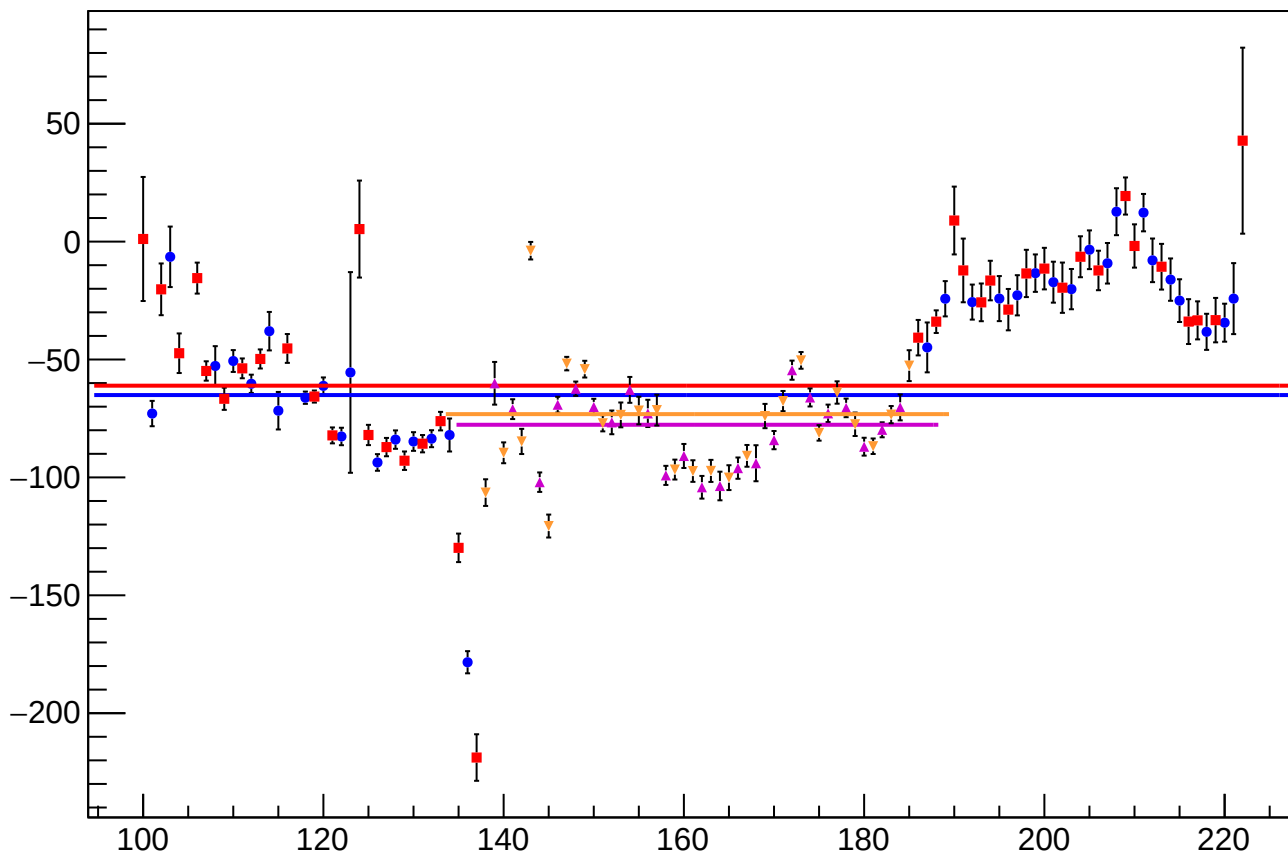
Right: -174.557 ± 0.662 χ^2/NDF : 6924.5/72

In: -165.785 ± 0.695 χ^2/NDF : 4345.8/57

Out: -165.863 ± 0.659 χ^2/NDF : 8072.6/62

All: -165.826 ± 0.478 χ^2/NDF : 12418.4/120

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.078 ± 0.957 $\chi^2/\text{NDF}: 1380.8/34$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.101 ± 0.932 $\chi^2/\text{NDF}: 1212.5/37$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

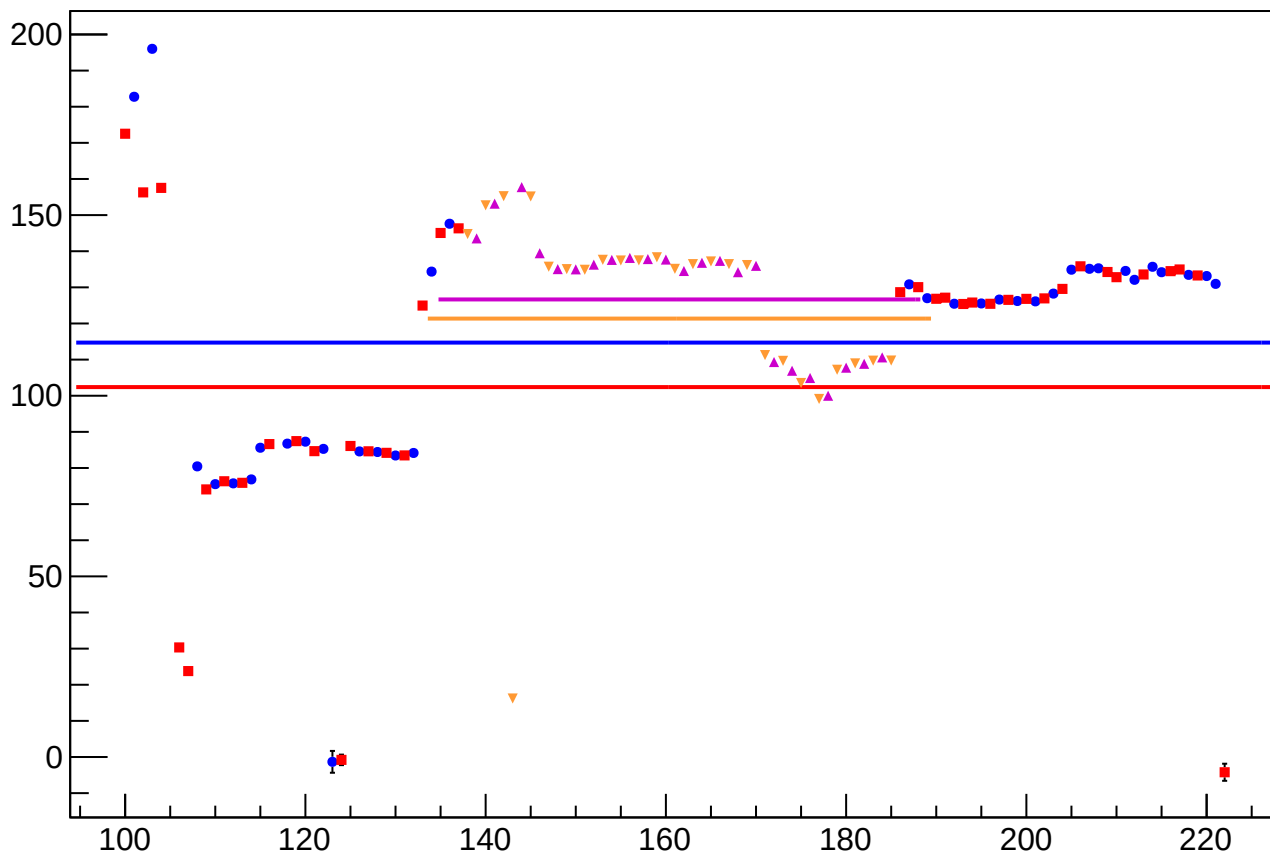
Right: -63.036 ± 0.668 $\chi^2/\text{NDF}: 2602.1/72$

In: -71.887 ± 0.649 $\chi^2/\text{NDF}: 1722.6/57$

Out: -67.679 ± 0.629 $\chi^2/\text{NDF}: 2092.4/62$

All: -69.716 ± 0.452 $\chi^2/\text{NDF}: 3836.8/120$

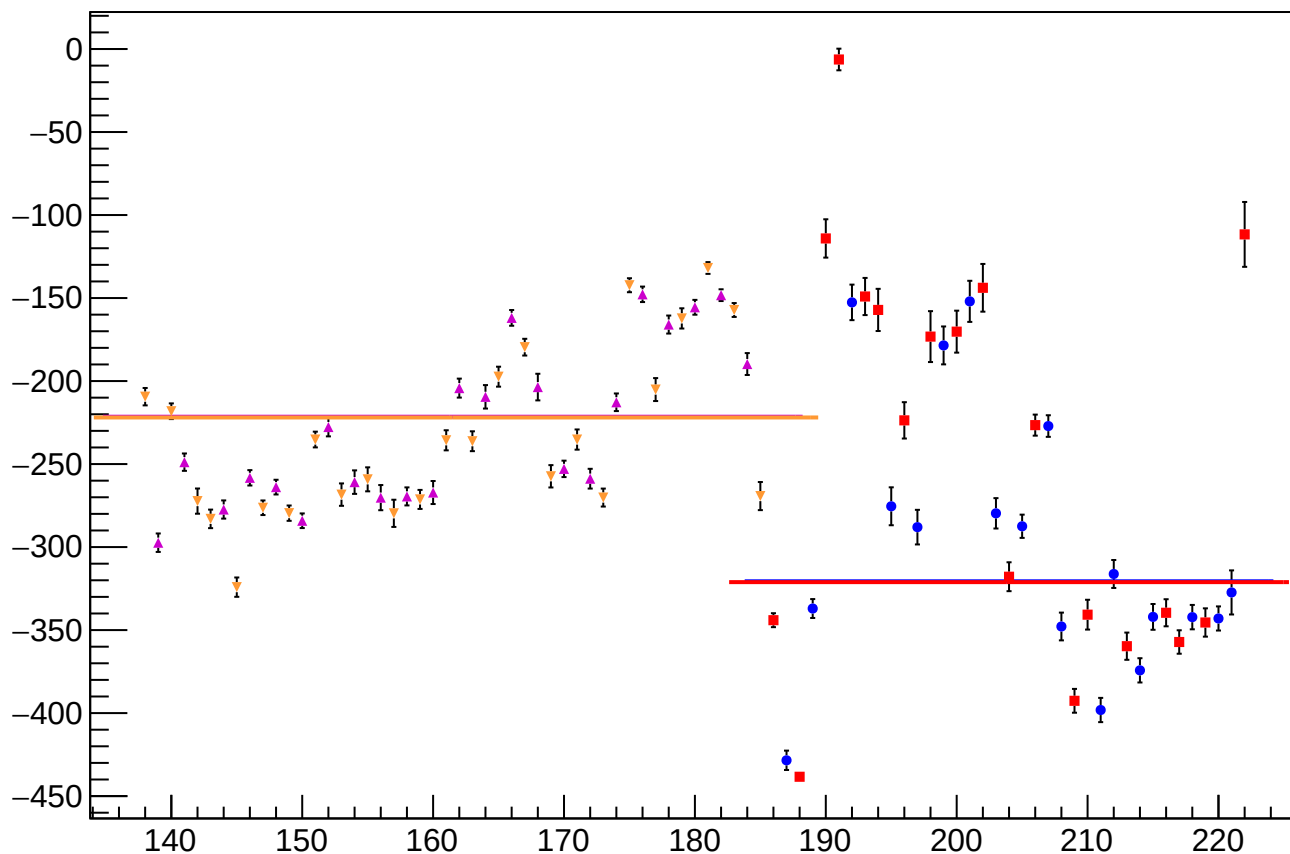
reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.709 ± 0.053 $\chi^2/\text{NDF}: 331859.0/34$
 Left Out: 121.356 ± 0.040 $\chi^2/\text{NDF}: 481977.3/24$
 Right Out: 102.393 ± 0.050 $\chi^2/\text{NDF}: 612990.3/37$
 Left In: 126.653 ± 0.041 $\chi^2/\text{NDF}: 163046.1/22$

Left: 123.954 ± 0.029 $\chi^2/\text{NDF}: 653496.6/47$
 Right: 108.096 ± 0.036 $\chi^2/\text{NDF}: 973503.4/72$
 In: 122.204 ± 0.033 $\chi^2/\text{NDF}: 526397.9/57$
 Out: 113.797 ± 0.031 $\chi^2/\text{NDF}: 1183200.9/62$
 All: 117.832 ± 0.023 $\chi^2/\text{NDF}: 1744314.6/120$

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -320.617 ± 1.884 $\chi^2/\text{NDF}: 1414.8/17$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -321.111 ± 1.644 $\chi^2/\text{NDF}: 5547.9/18$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

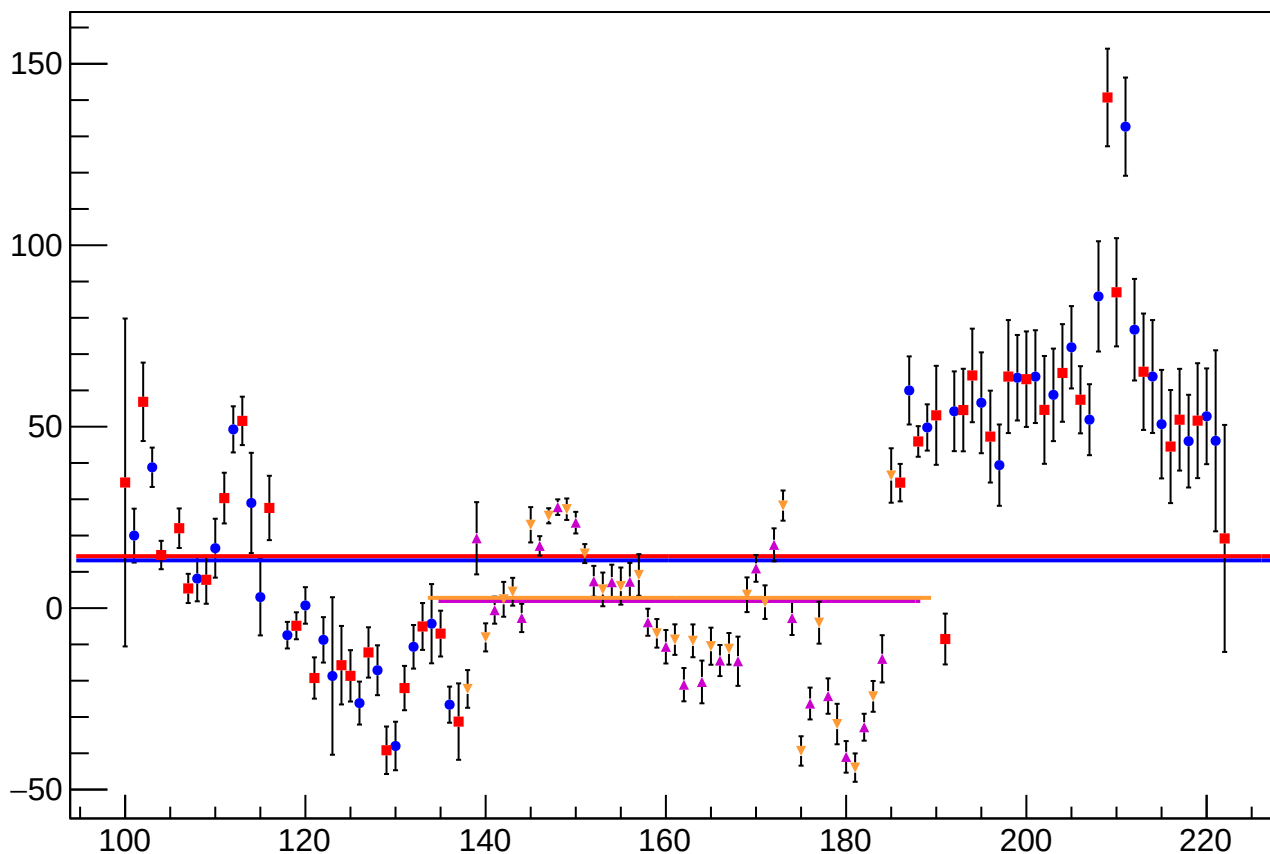
Right: -320.897 ± 1.239 $\chi^2/\text{NDF}: 6962.7/36$

In: -246.754 ± 0.951 $\chi^2/\text{NDF}: 5626.6/40$

Out: -252.015 ± 0.905 $\chi^2/\text{NDF}: 10663.1/43$

All: -249.515 ± 0.656 $\chi^2/\text{NDF}: 16305.7/84$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.165 ± 1.343 $\chi^2/\text{NDF}: 647.2/34$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 14.323 ± 1.188 $\chi^2/\text{NDF}: 639.4/37$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

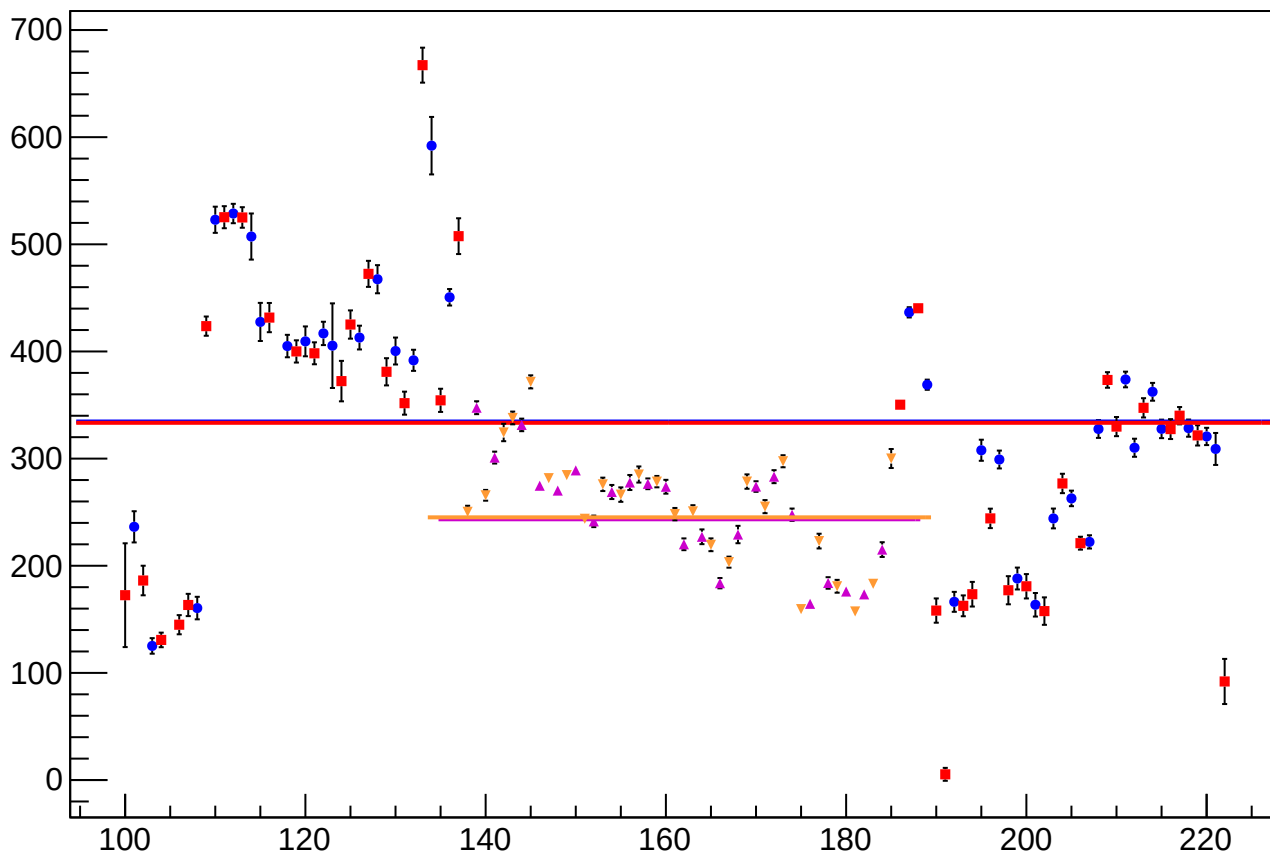
Right: 13.815 ± 0.890 $\chi^2/\text{NDF}: 1287.0/72$

In: 5.088 ± 0.709 $\chi^2/\text{NDF}: 1286.3/57$

Out: 6.461 ± 0.668 $\chi^2/\text{NDF}: 1390.4/62$

All: 5.816 ± 0.486 $\chi^2/\text{NDF}: 2678.7/120$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 334.630 ± 1.510 $\chi^2/\text{NDF}: 4492.4/34$

Left Out: 245.179 ± 1.082 $\chi^2/\text{NDF}: 2597.4/24$

Right Out: 333.425 ± 1.272 $\chi^2/\text{NDF}: 10234.2/37$

Left In: 243.366 ± 1.094 $\chi^2/\text{NDF}: 2236.7/22$

Left: 244.282 ± 0.769 $\chi^2/\text{NDF}: 4835.5/47$

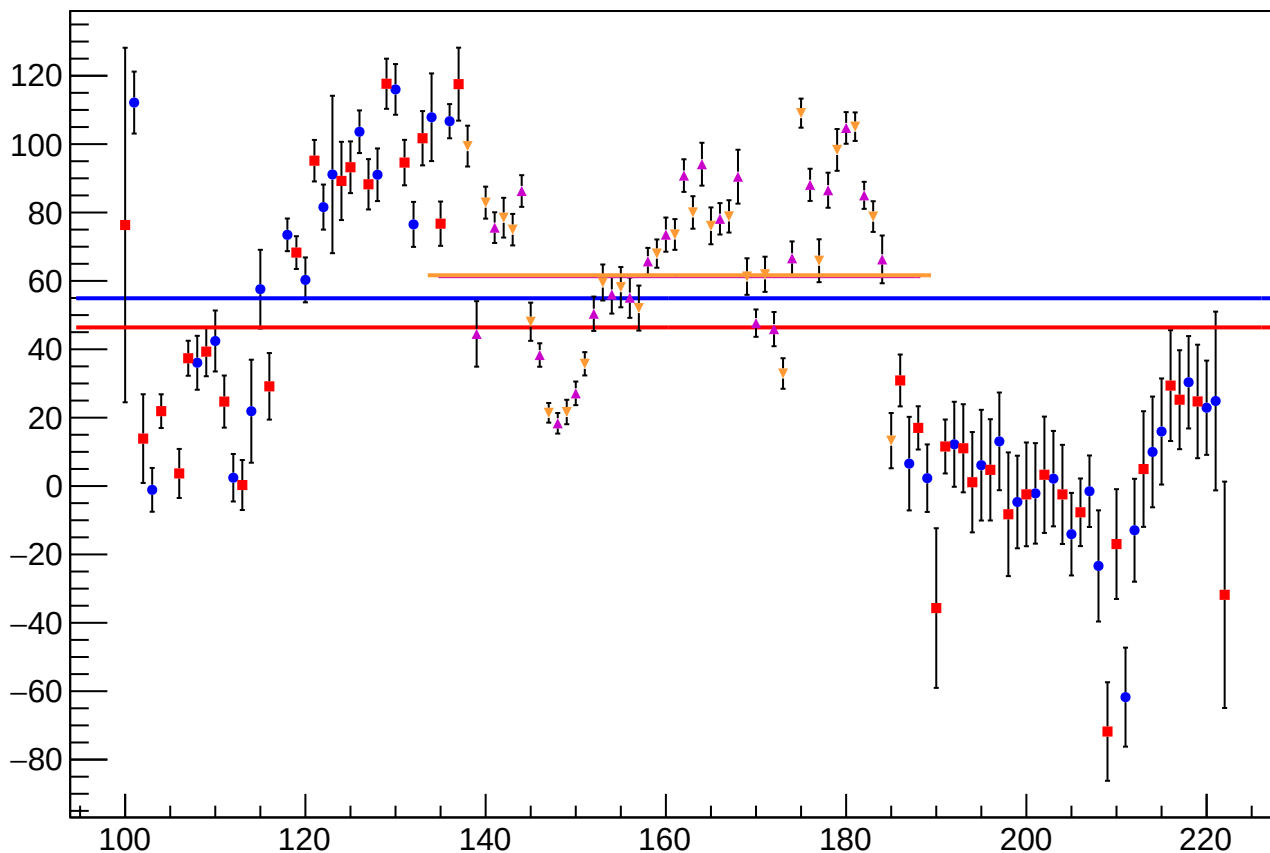
Right: 333.925 ± 0.973 $\chi^2/\text{NDF}: 14727.0/72$

In: 274.757 ± 0.886 $\chi^2/\text{NDF}: 9124.5/57$

Out: 282.221 ± 0.824 $\chi^2/\text{NDF}: 15623.5/62$

All: 278.757 ± 0.603 $\chi^2/\text{NDF}: 24786.0/120$

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 54.919 ± 1.552 $\chi^2/\text{NDF}: 820.3/34$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 46.399 ± 1.412 $\chi^2/\text{NDF}: 803.0/37$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

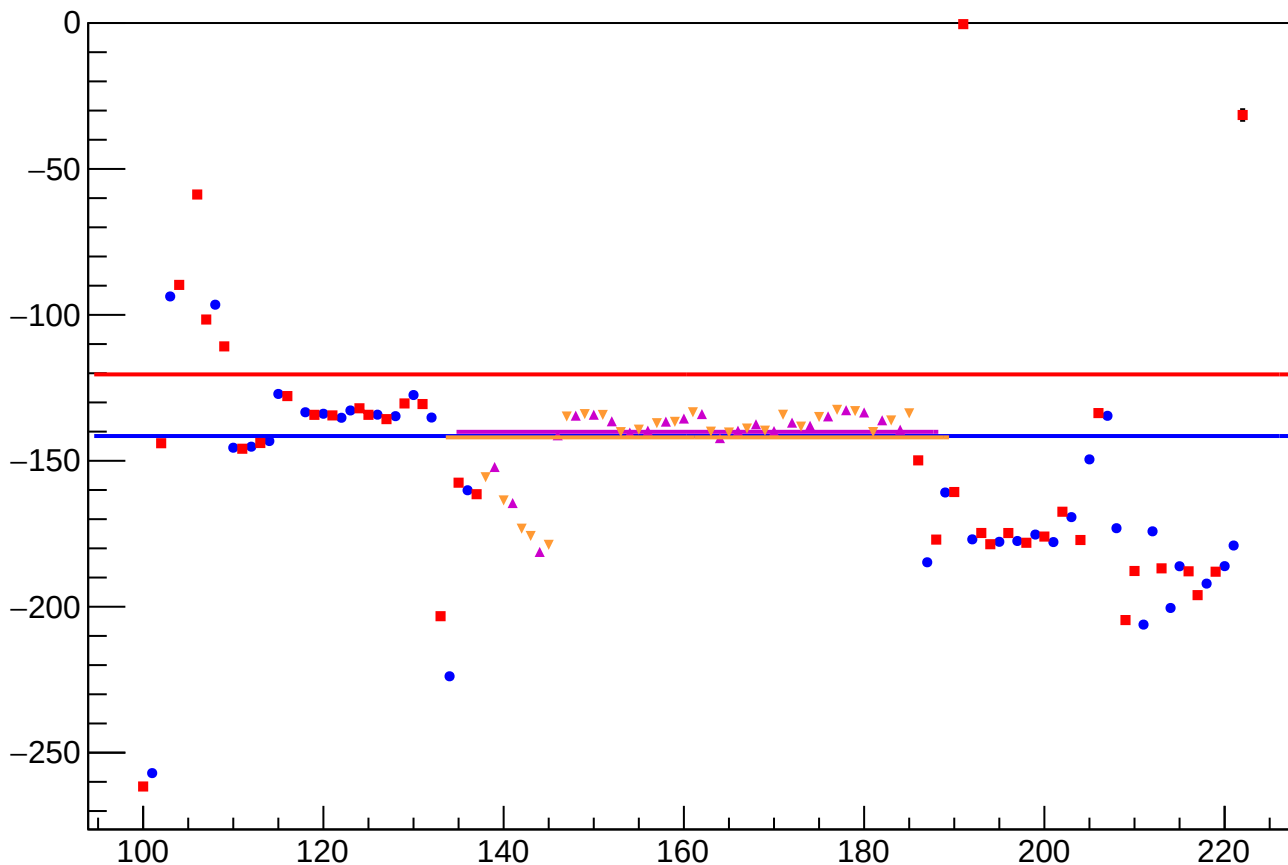
Right: 50.257 ± 1.045 $\chi^2/\text{NDF}: 1639.8/72$

In: 59.586 ± 0.817 $\chi^2/\text{NDF}: 1532.4/57$

Out: 56.991 ± 0.780 $\chi^2/\text{NDF}: 1755.6/62$

All: 58.229 ± 0.564 $\chi^2/\text{NDF}: 3293.3/120$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.511 ± 0.074 $\chi^2/\text{NDF}: 264017.4/34$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -120.397 ± 0.066 $\chi^2/\text{NDF}: 660472.6/37$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

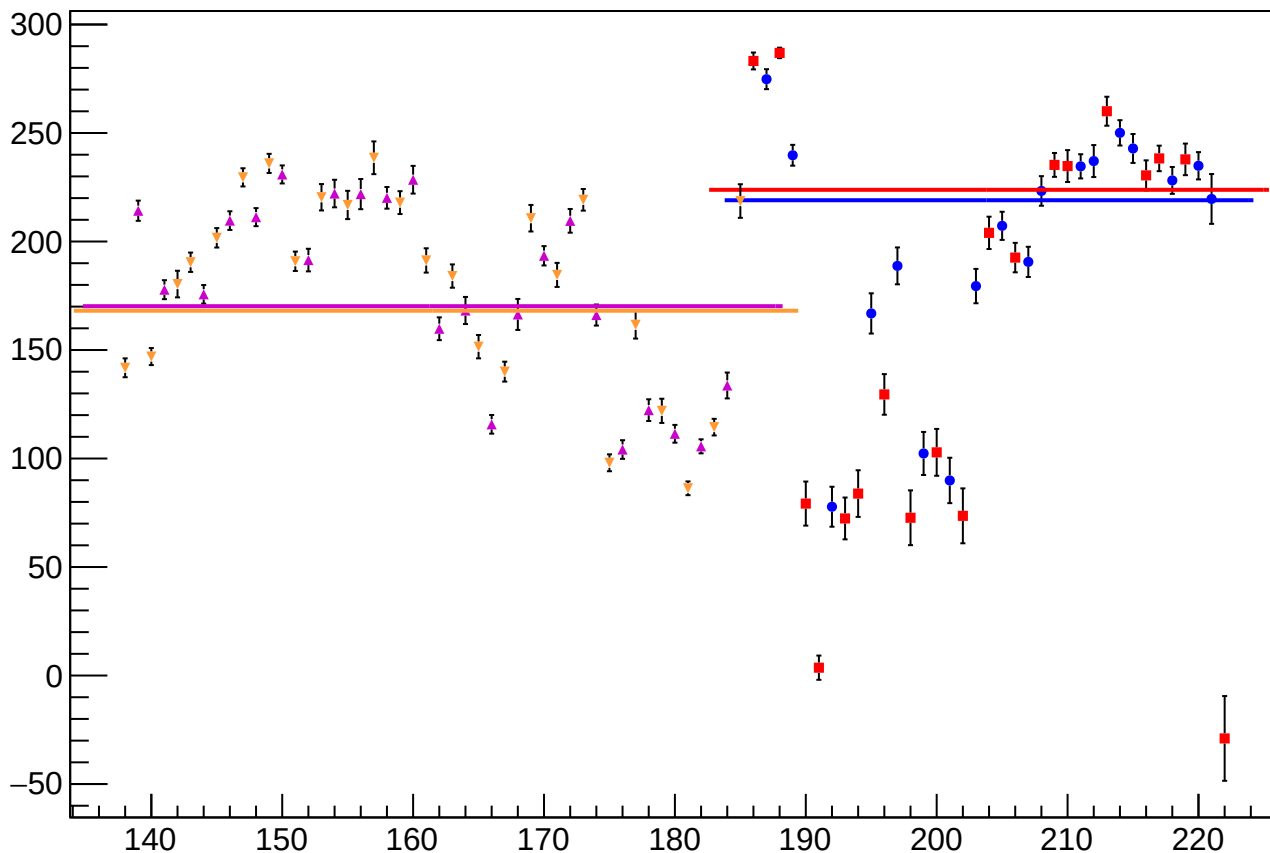
Right: -129.790 ± 0.049 $\chi^2/\text{NDF}: 969910.2/72$

In: -140.459 ± 0.038 $\chi^2/\text{NDF}: 312326.4/57$

Out: -135.196 ± 0.037 $\chi^2/\text{NDF}: 813843.0/62$

All: -137.730 ± 0.027 $\chi^2/\text{NDF}: 1135897.5/12$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.014 $\pm$ 1.600 χ^2 /NDF: 844.7/17

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 223.825 $\pm$ 1.391 χ^2 /NDF: 3846.8/18

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

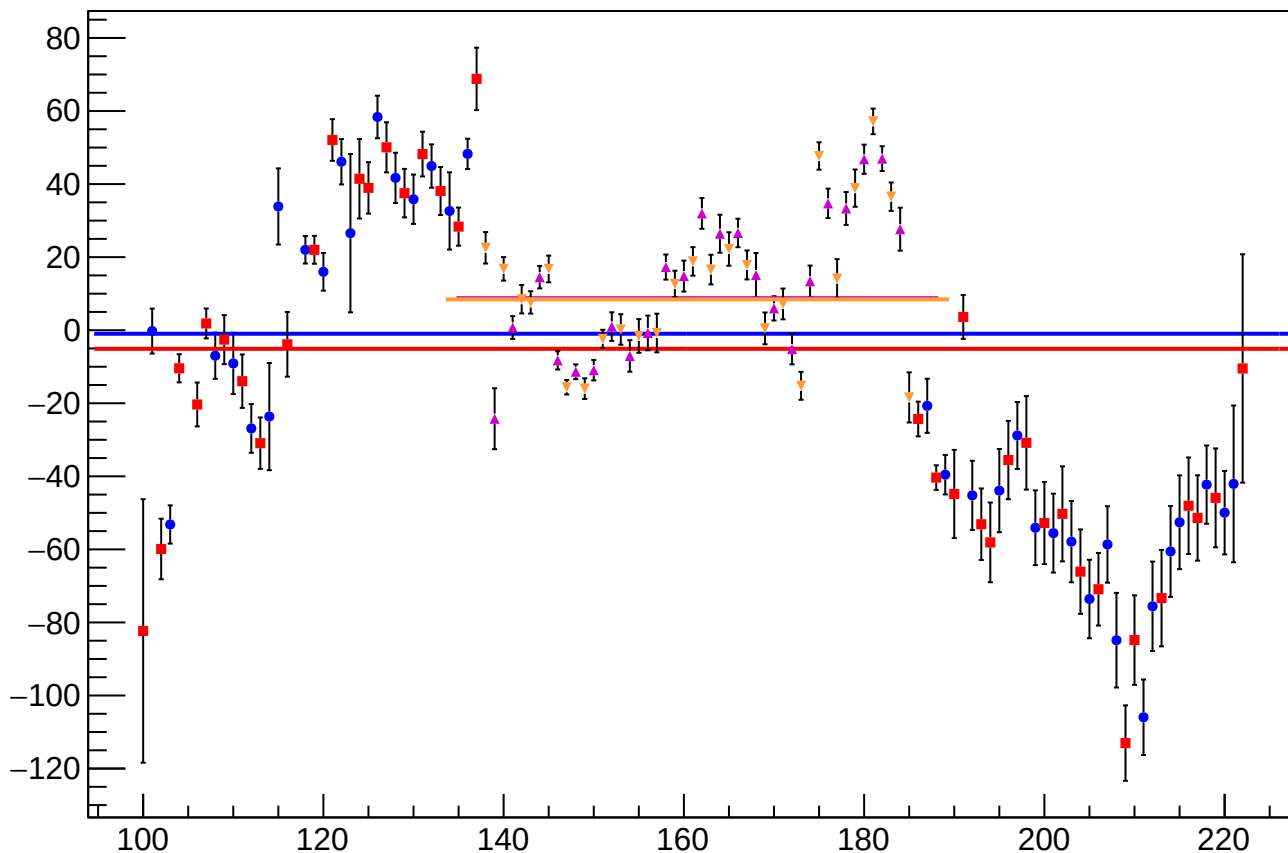
Right: 221.755 $\pm$ 1.050 χ^2 /NDF: 4696.6/36

In: 183.815 $\pm$ 0.845 χ^2 /NDF:3540.1/40

Out: 186.347 $\pm$ 0.796 χ^2 /NDF:7395.3/43

All: 185.157 $\pm$ 0.579 χ^2 /NDF: 10940.1/84

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.969 ± 1.267 χ^2/NDF : 1136.2/34

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: -5.093 ± 1.125 χ^2/NDF : 1138.1/37

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

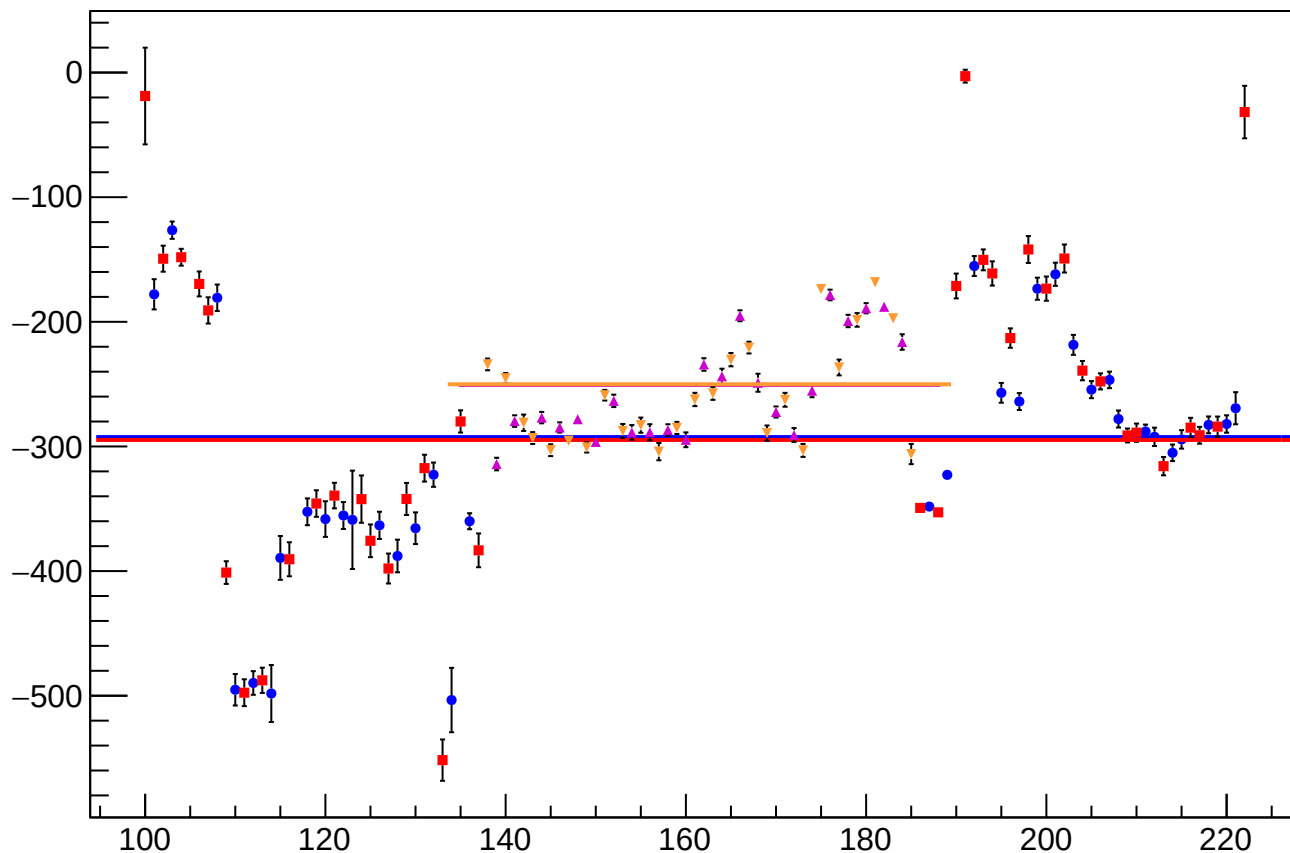
Right: -3.275 ± 0.841 χ^2/NDF : 2280.2/72

In: 6.201 ± 0.651 χ^2/NDF : 1806.5/57

Out: 4.443 ± 0.611 χ^2/NDF : 1992.1/62

All: 5.267 ± 0.445 χ^2/NDF : 3802.4/120

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -292.496+/-1.324 χ^2/NDF : 3143.3/34

Left Out: -250.119+/-0.972 χ^2/NDF :2246.9/24

Right Out: -294.765+/-1.111 χ^2/NDF : 8279.8/37

Left In: -250.628+/-0.990 χ^2/NDF :1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

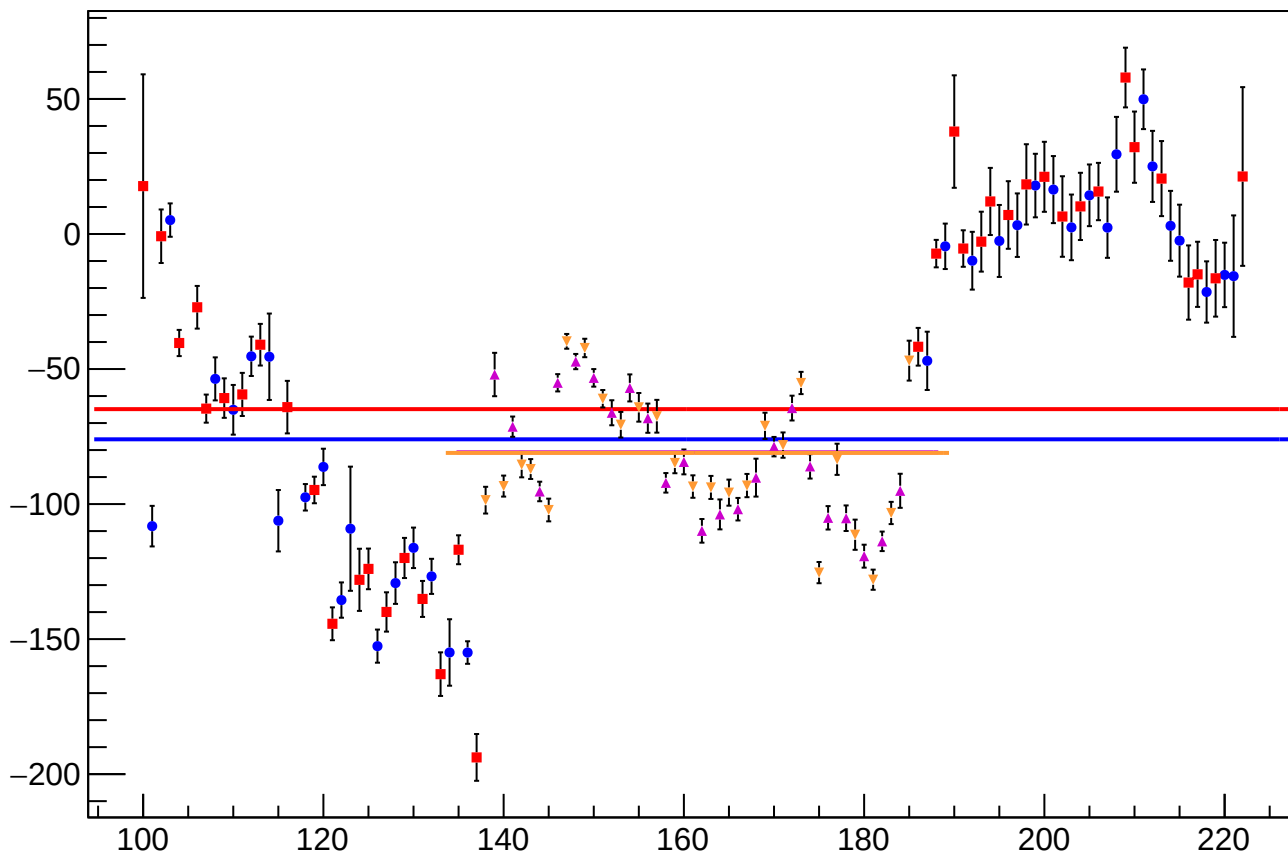
Right: -293.827+/-0.851 χ^2/NDF : 11424.9/72

In: -265.643+/-0.793 χ^2/NDF :5721.4/57

Out: -269.474+/-0.732 χ^2/NDF :11440.8/62

All: -267.712+/-0.538 χ^2/NDF : 17174.8/120

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.024 ± 1.462 $\chi^2/\text{NDF}: 1864.4/34$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -64.847 ± 1.341 $\chi^2/\text{NDF}: 1938.6/37$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

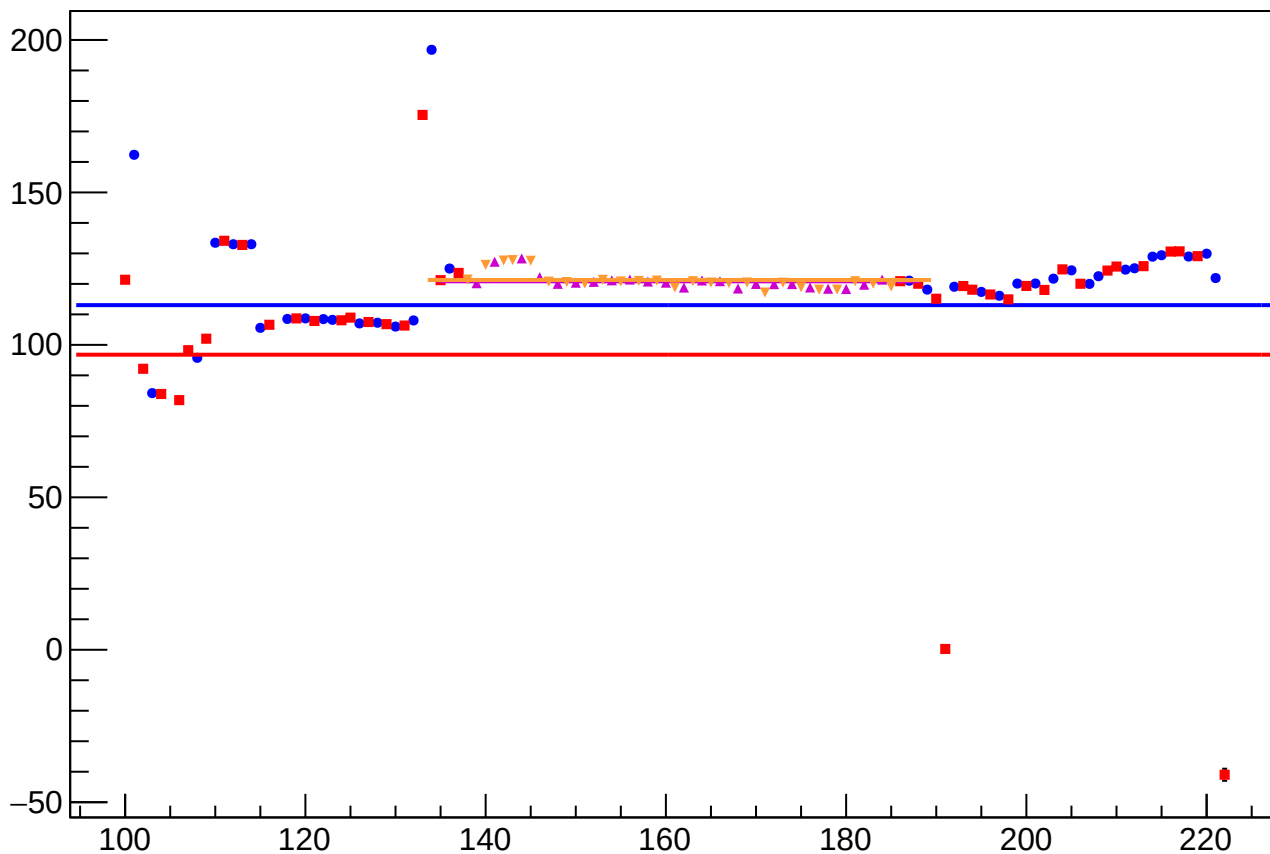
Right: -69.952 ± 0.988 $\chi^2/\text{NDF}: 3834.8/72$

In: -79.572 ± 0.749 $\chi^2/\text{NDF}: 2565.5/57$

Out: -76.464 ± 0.714 $\chi^2/\text{NDF}: 2956.5/62$

All: -77.943 ± 0.517 $\chi^2/\text{NDF}: 5531.0/120$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 113.034 $\pm$ 0.068 χ^2 /NDF: 82339.7/34

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.776 $\pm$ 0.061 χ^2 /NDF: 381271.1/37

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

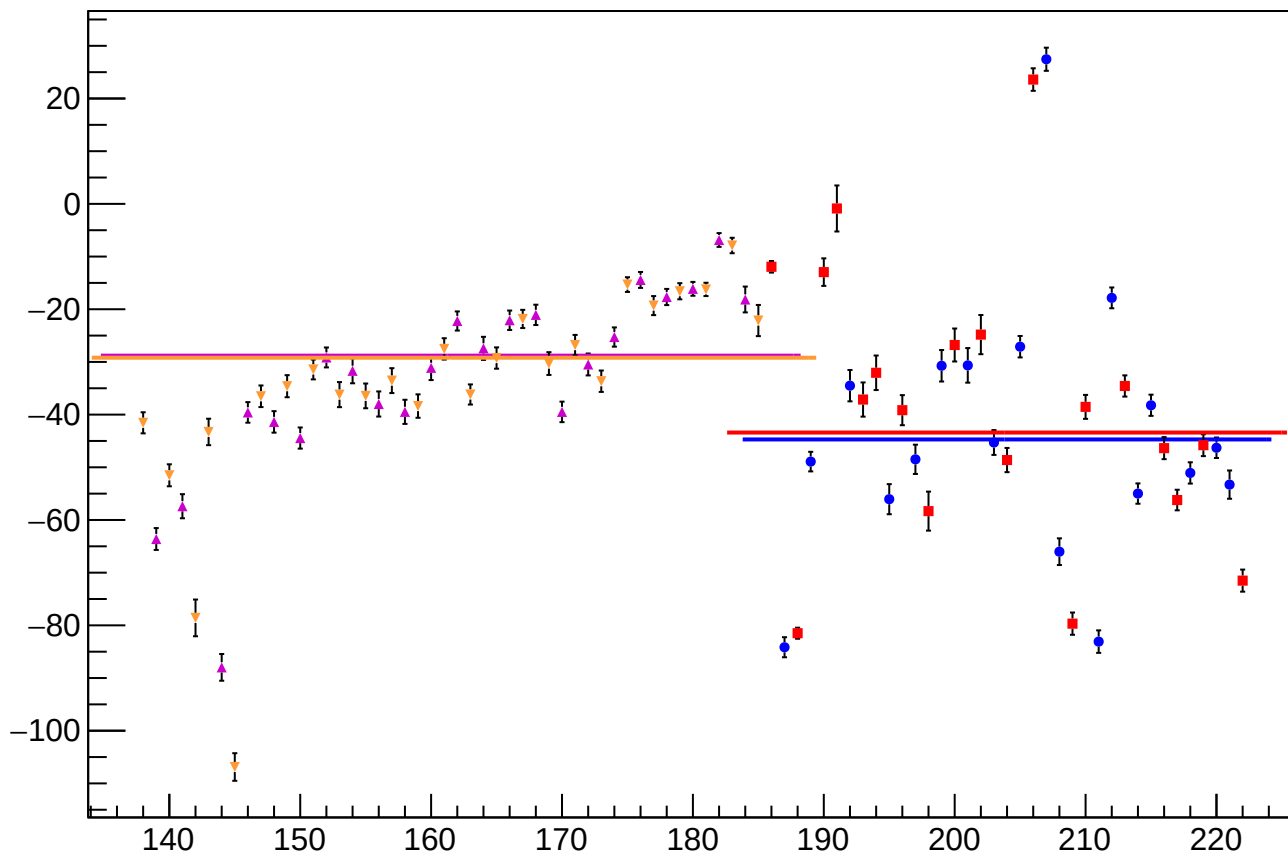
Right: 104.005 $\pm$ 0.045 χ^2 /NDF: 495345.7/72

In: 118.784 $\pm$ 0.035 χ^2 /NDF: 95414.9/57

Out: 113.863 $\pm$ 0.033 χ^2 /NDF: 499285.8/62

All: 116.220 $\pm$ 0.024 χ^2 /NDF: 605049.3/120

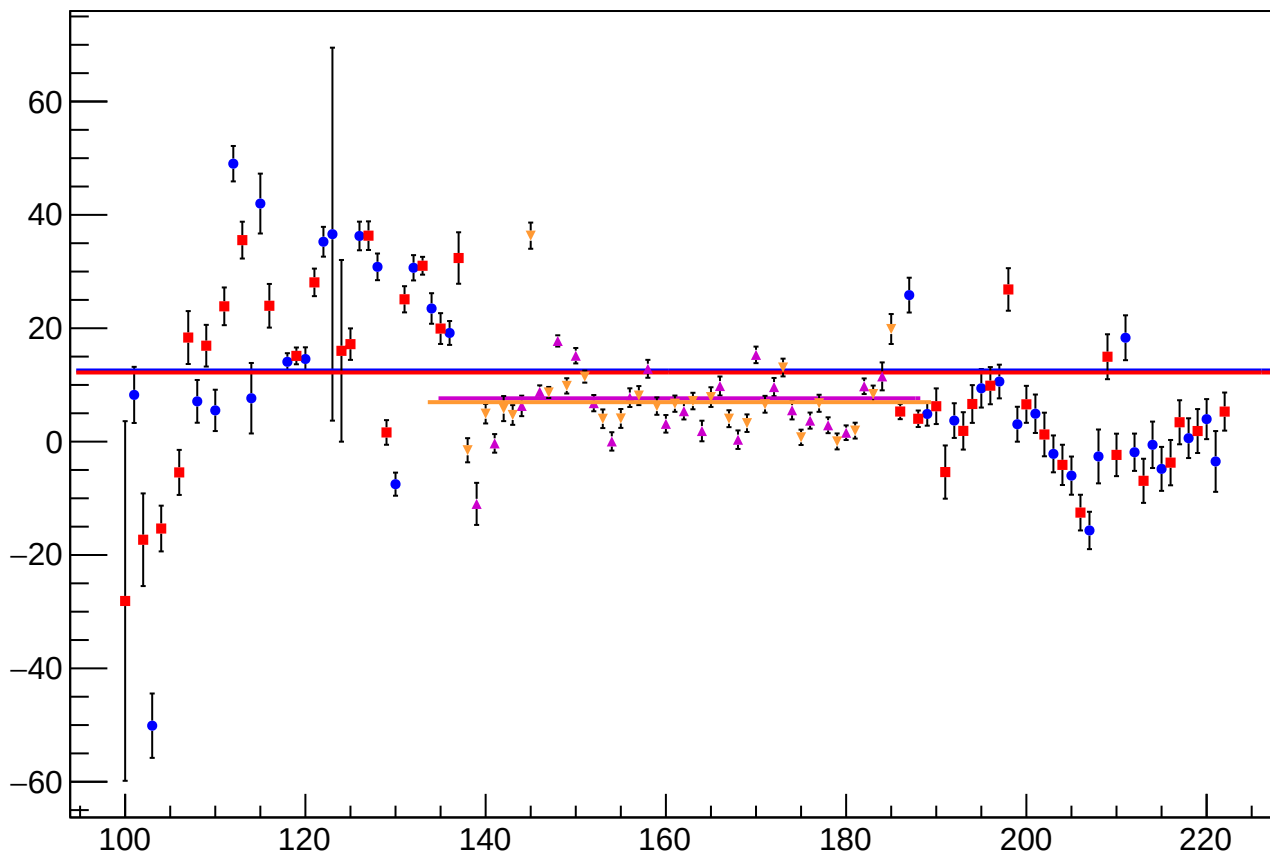
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.712 ± 0.530 $\chi^2/\text{NDF}: 2295.3/17$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -43.404 ± 0.471 $\chi^2/\text{NDF}: 3989.0/18$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$
 Right: -43.980 ± 0.352 $\chi^2/\text{NDF}: 6287.8/36$
 In: -34.493 ± 0.317 $\chi^2/\text{NDF}: 4637.4/40$
 Out: -34.958 ± 0.300 $\chi^2/\text{NDF}: 6412.3/43$
 All: -34.738 ± 0.218 $\chi^2/\text{NDF}: 11050.9/84$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.549 $\pm$ 0.502 χ^2 /NDF: 980.2/34

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.195 $\pm$ 0.458 χ^2 /NDF: 794.6/37

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

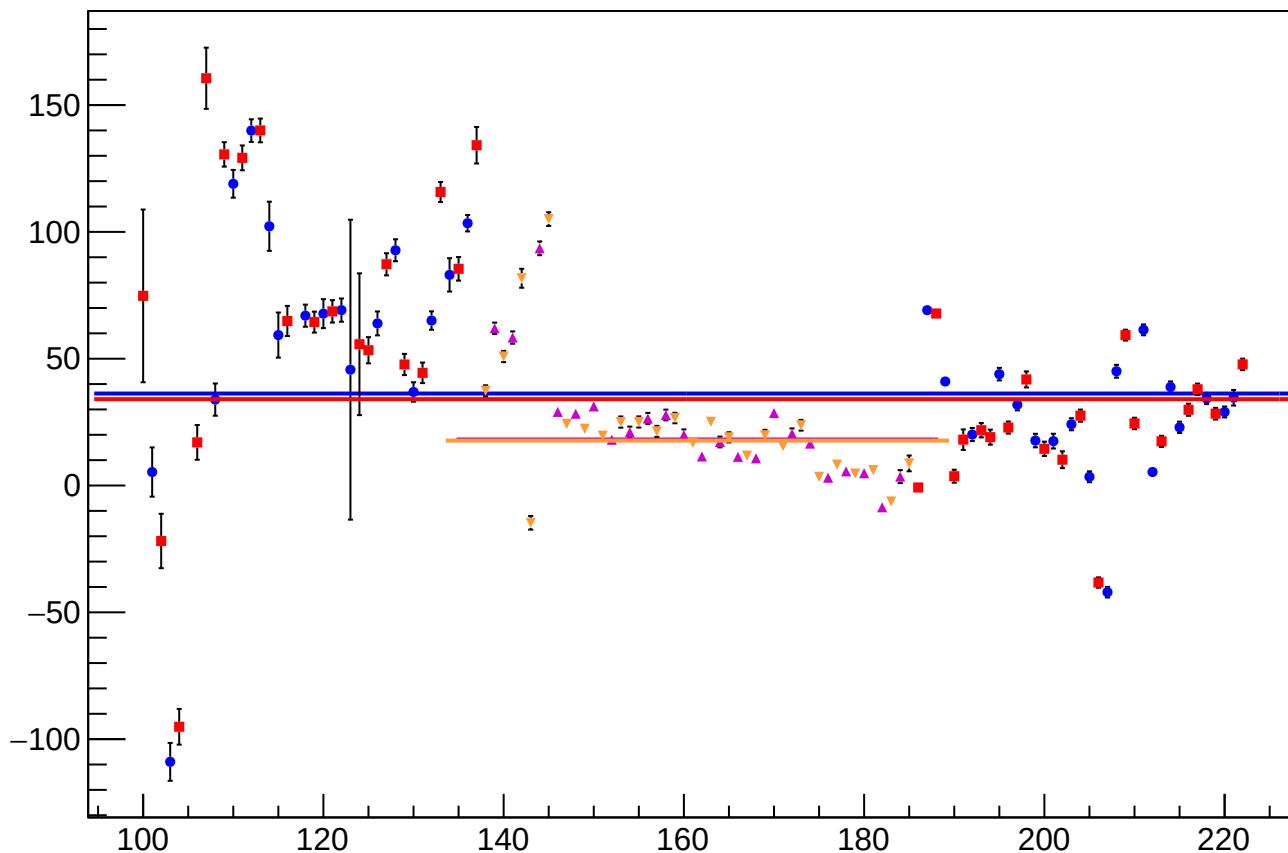
Right: 12.356 $\pm$ 0.338 χ^2 /NDF: 1775.1/72

In: 9.018 $\pm$ 0.266 χ^2 /NDF:1386.9/57

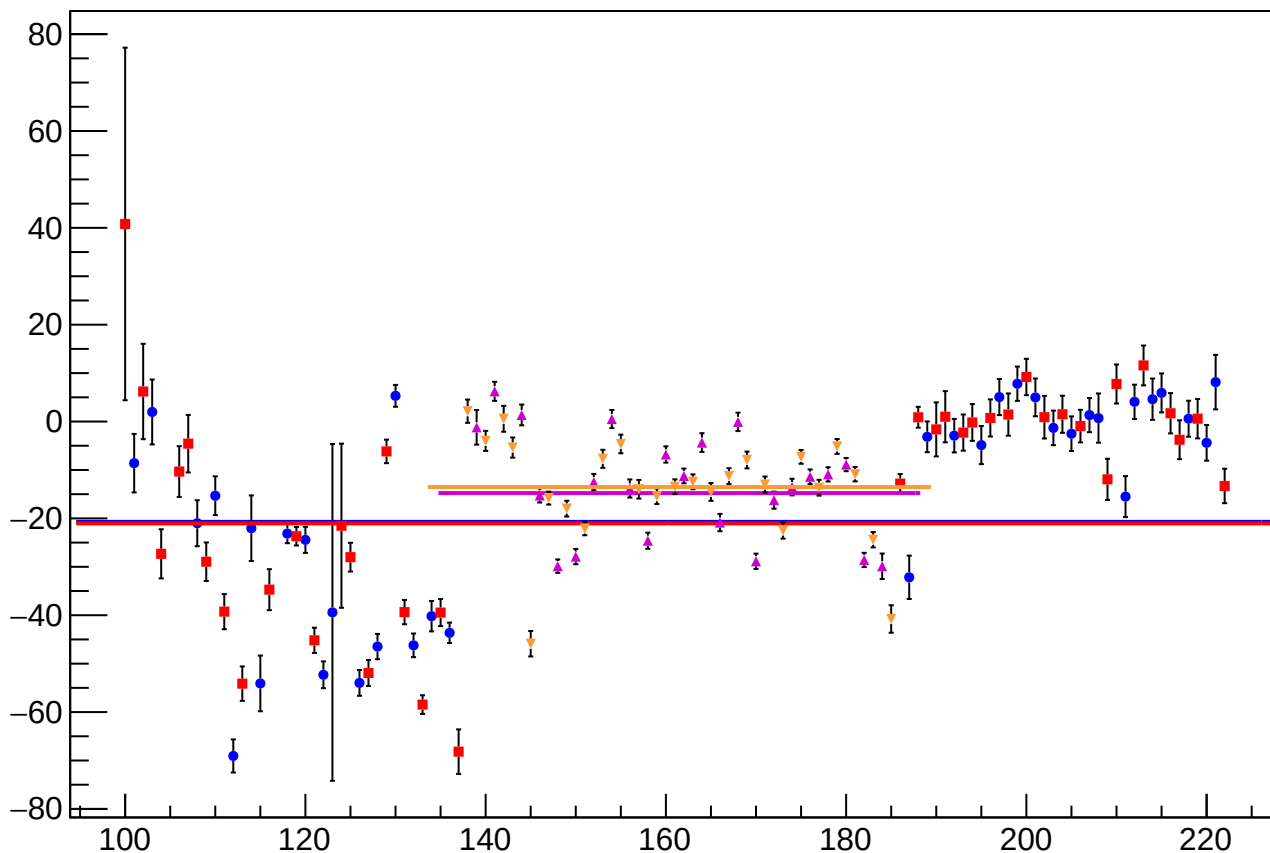
Out: 8.551 $\pm$ 0.253 χ^2 /NDF:1206.7/62

All: 8.773 $\pm$ 0.183 χ^2 /NDF: 2595.2/120

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -20.719 ± 0.576 $\chi^2/\text{NDF}: 1593.3/34$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -21.030 ± 0.546 $\chi^2/\text{NDF}: 1616.8/37$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

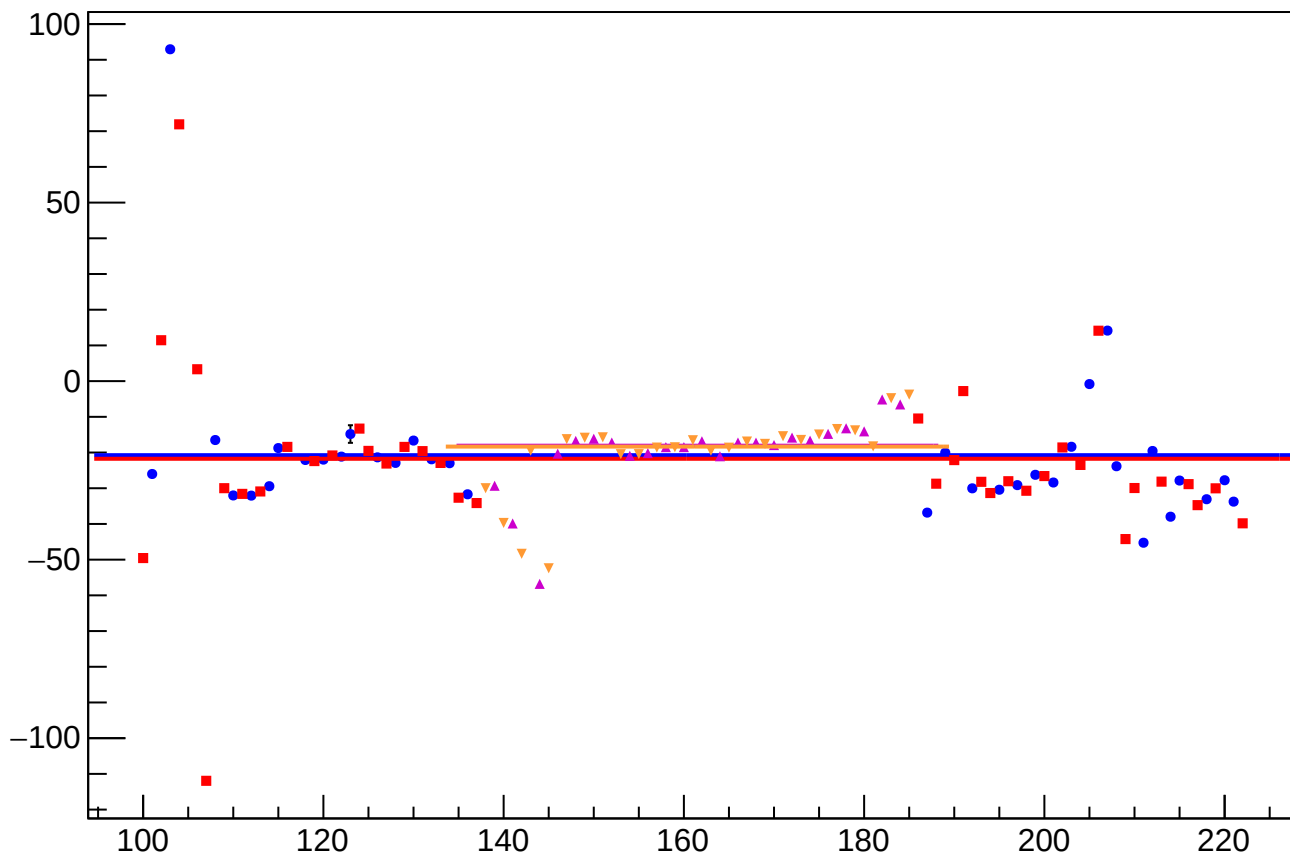
Right: -20.883 ± 0.396 $\chi^2/\text{NDF}: 3210.2/72$

In: -16.408 ± 0.302 $\chi^2/\text{NDF}: 2508.5/57$

Out: -15.662 ± 0.291 $\chi^2/\text{NDF}: 2324.6/62$

All: -16.022 ± 0.209 $\chi^2/\text{NDF}: 4836.3/120$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.738+/-0.028 χ^2/NDF : 625436.9/34

Left Out: -18.334+/-0.016 χ^2/NDF : 284152.1/24

Right Out: -21.747+/-0.027 χ^2/NDF : 592122.7/37

Left In: -18.083+/-0.016 χ^2/NDF : 241949.5/22

Left: -18.211+/-0.011 χ^2/NDF : 526224.9/47

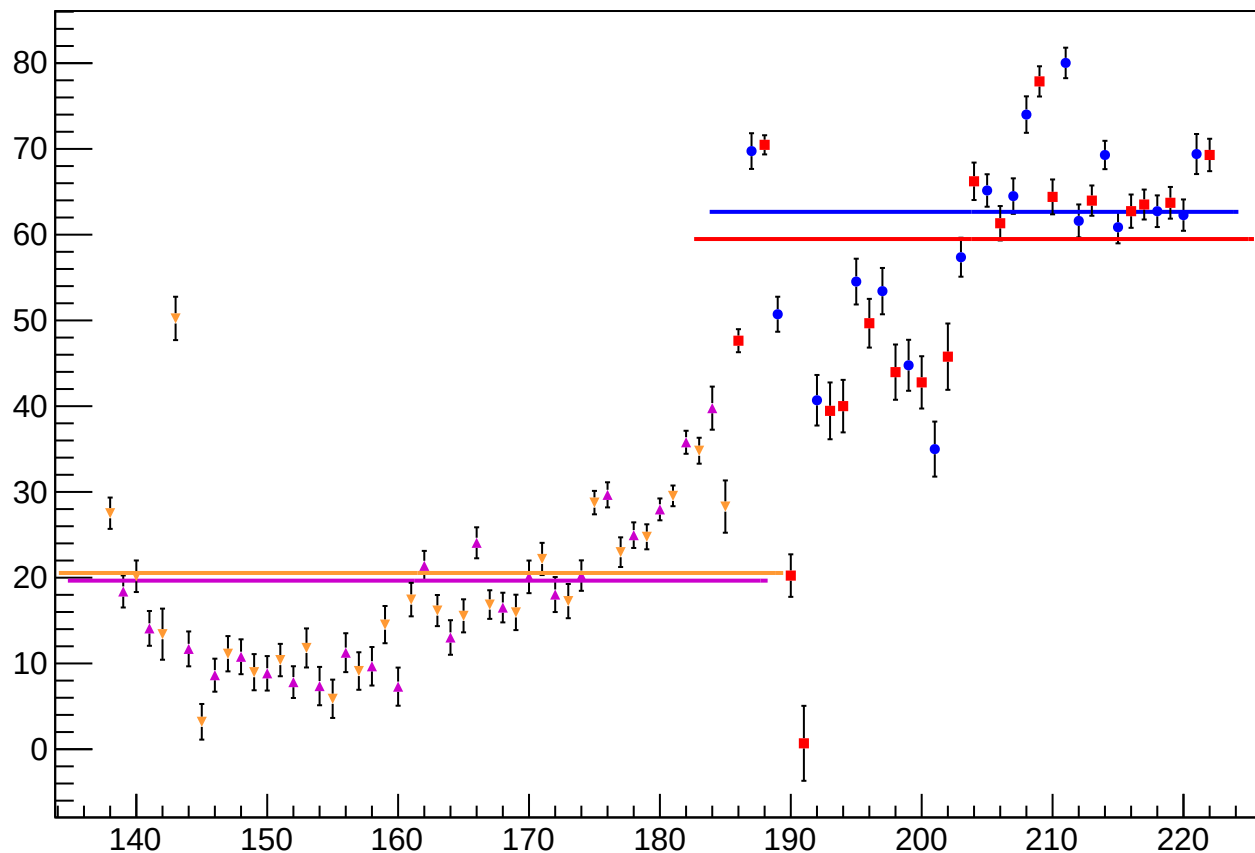
Right: -21.261+/-0.019 χ^2/NDF : 1218242.2/72

In: -18.749+/-0.014 χ^2/NDF : 874210.8/57

Out: -19.217+/-0.014 χ^2/NDF : 888287.8/62

All: -18.988+/-0.010 χ^2/NDF : 1763077.1/120

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.661 $\pm$ 0.499 χ^2 /NDF: 390.3/17

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 59.491 $\pm$ 0.463 χ^2 /NDF: 932.4/18

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

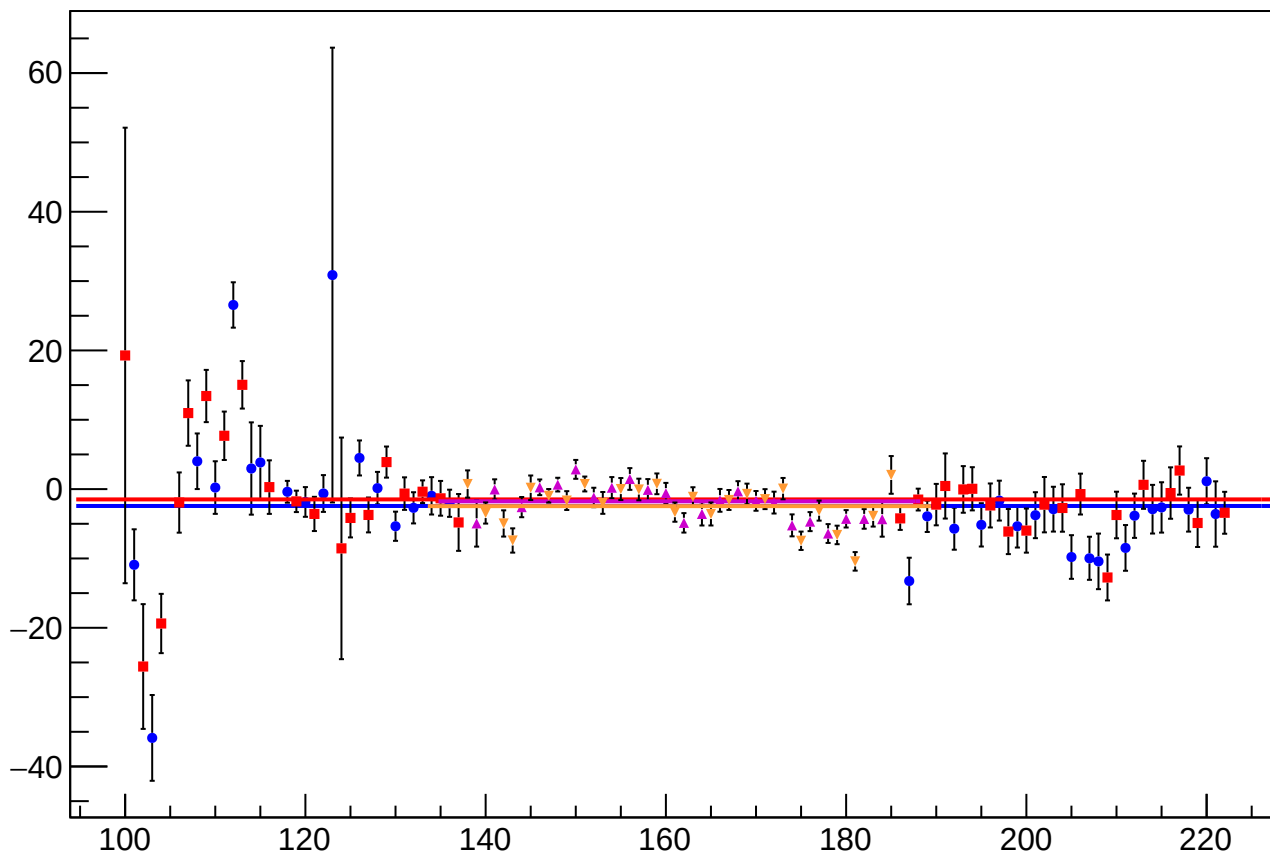
Right: 60.956 $\pm$ 0.339 χ^2 /NDF: 1344.3/36

In: 35.453 $\pm$ 0.303 χ^2 /NDF: 5656.6/40

Out: 35.891 $\pm$ 0.290 χ^2 /NDF: 5851.1/43

All: 35.681 $\pm$ 0.210 χ^2 /NDF: 11508.8/84

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.432 ± 0.498 χ^2/NDF : 163.9/34

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.484 ± 0.466 χ^2/NDF : 110.8/37

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

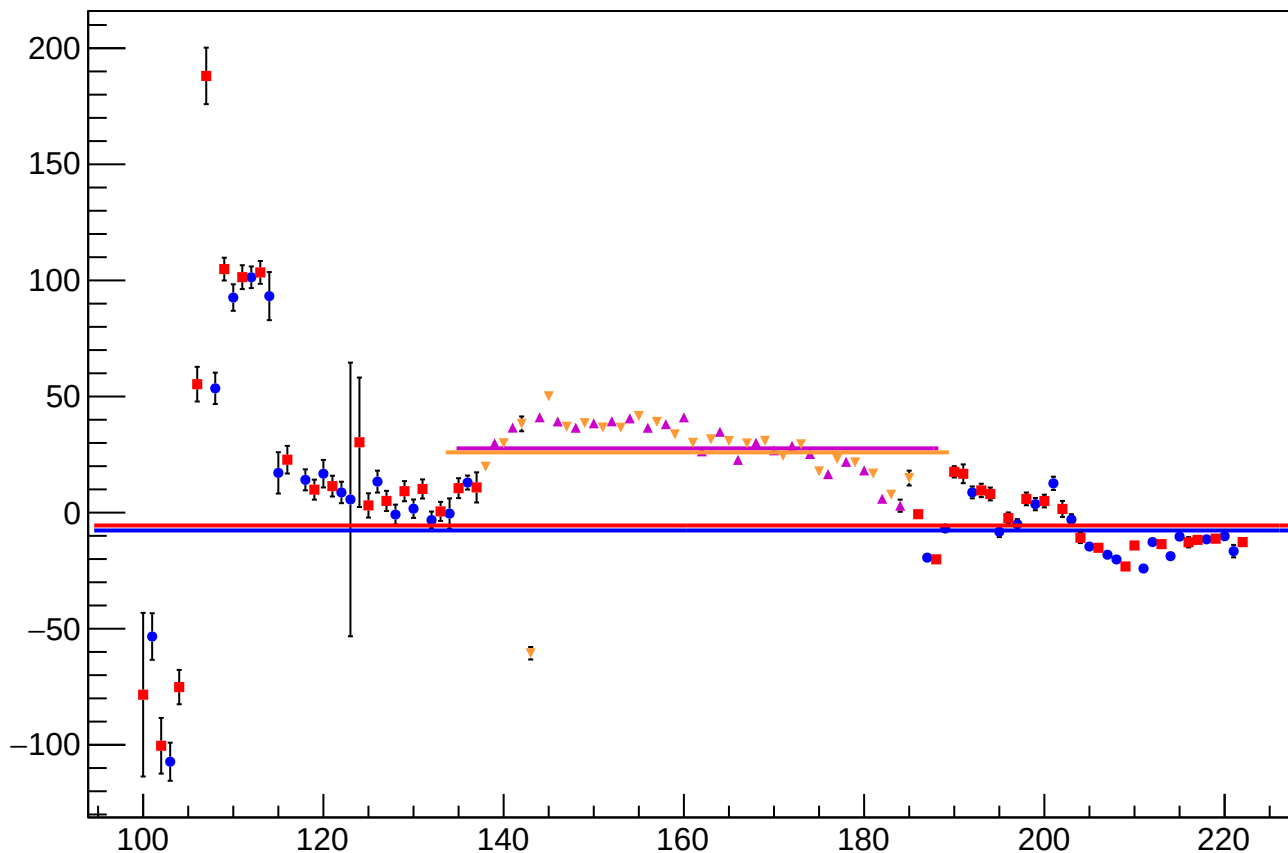
Right: -1.927 ± 0.340 χ^2/NDF : 276.6/72

In: -1.939 ± 0.258 χ^2/NDF : 232.7/57

Out: -2.181 ± 0.248 χ^2/NDF : 219.9/62

All: -2.065 ± 0.179 χ^2/NDF : 453.0/120

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.686 ± 0.458 χ^2/NDF : 1719.2/34

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -5.544 ± 0.409 χ^2/NDF : 2709.0/37

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

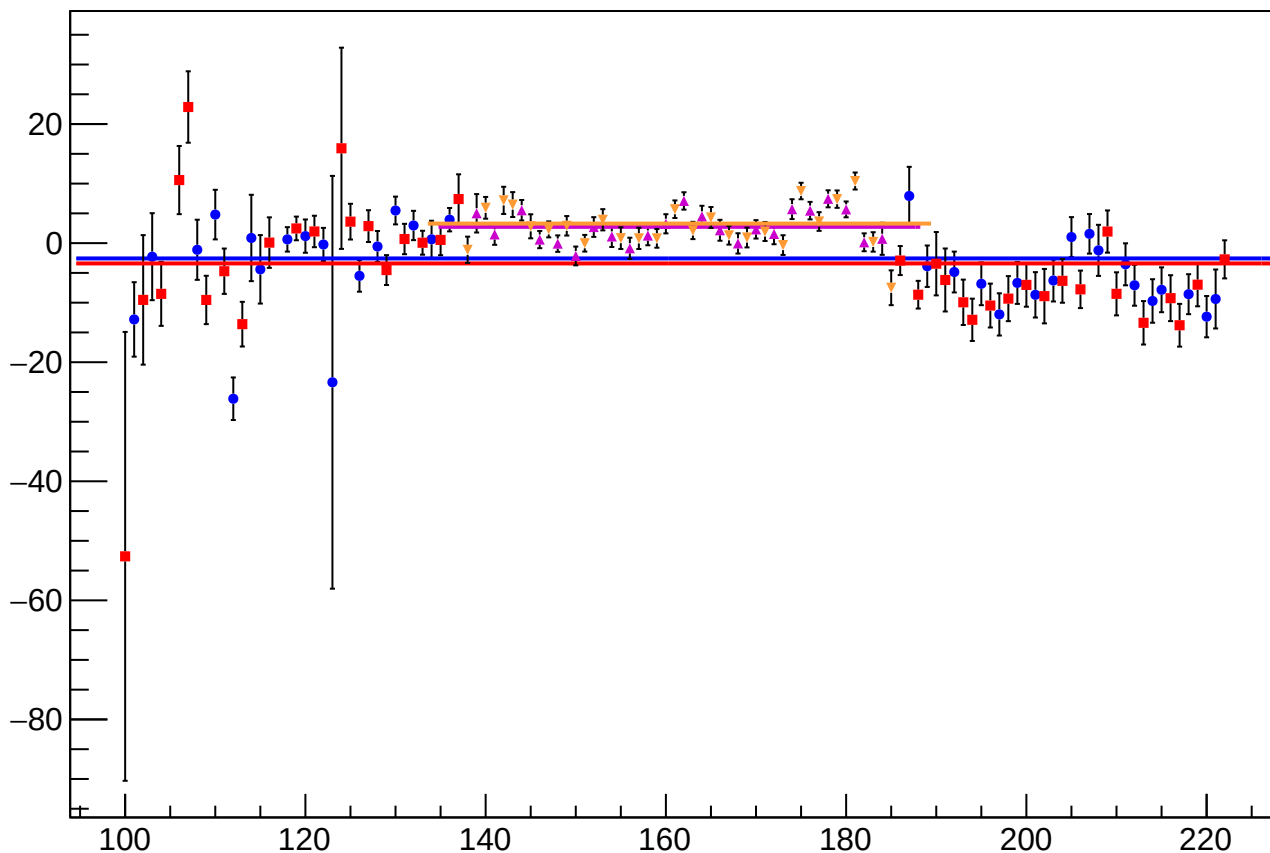
Right: -6.494 ± 0.305 χ^2/NDF : 4440.3/72

In: 13.352 ± 0.292 χ^2/NDF : 6064.2/57

Out: 11.683 ± 0.275 χ^2/NDF : 7657.6/62

All: 12.470 ± 0.200 χ^2/NDF : 13739.1/120

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.571 ± 0.566 χ^2/NDF : 127.8/34

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.410 ± 0.547 χ^2/NDF : 128.6/37

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

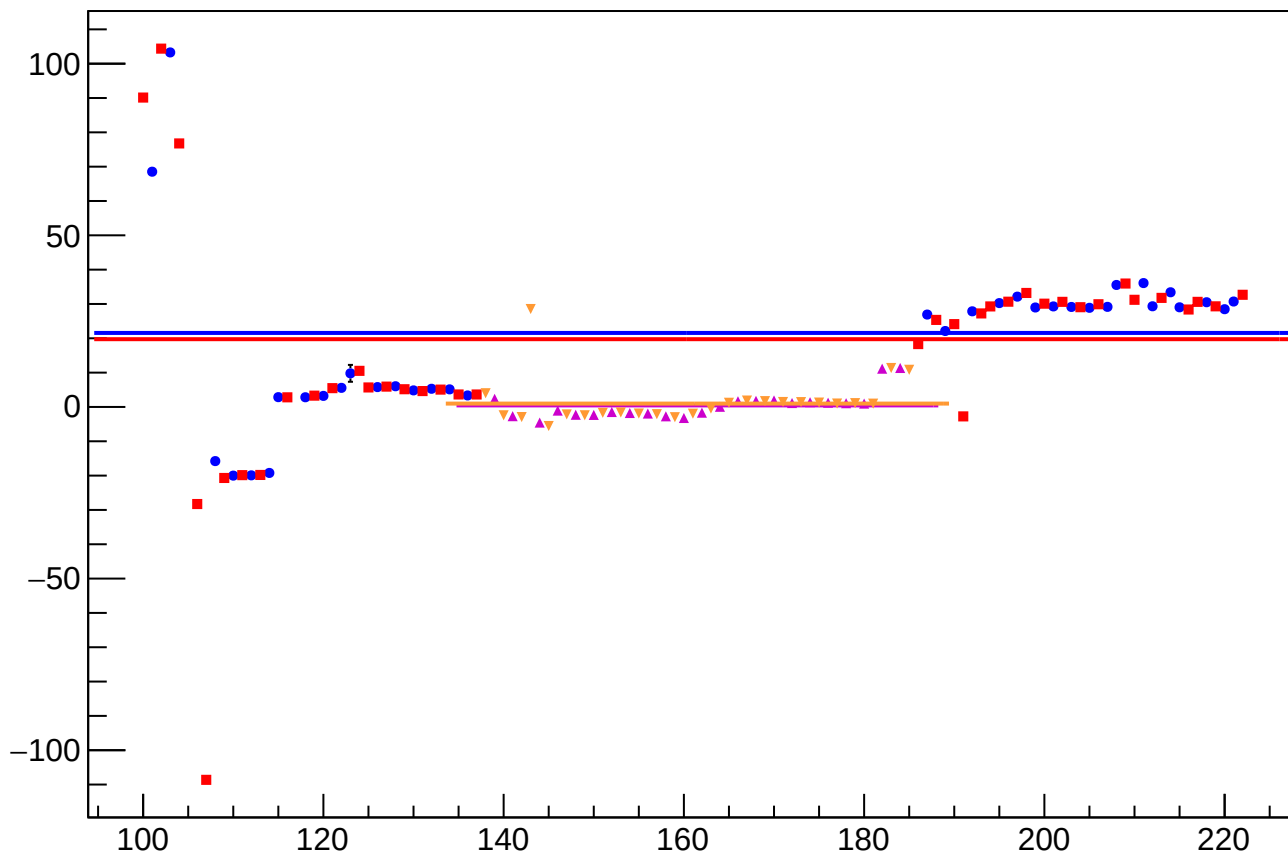
Right: -3.005 ± 0.394 χ^2/NDF : 257.5/72

In: 1.325 ± 0.292 χ^2/NDF : 256.7/57

Out: 1.486 ± 0.283 χ^2/NDF : 340.3/62

All: 1.408 ± 0.203 χ^2/NDF : 597.2/120

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.562 $\pm$ 0.027 χ^2 /NDF: 518447.1/34

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 19.739 $\pm$ 0.026 χ^2 /NDF: 756596.0/37

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

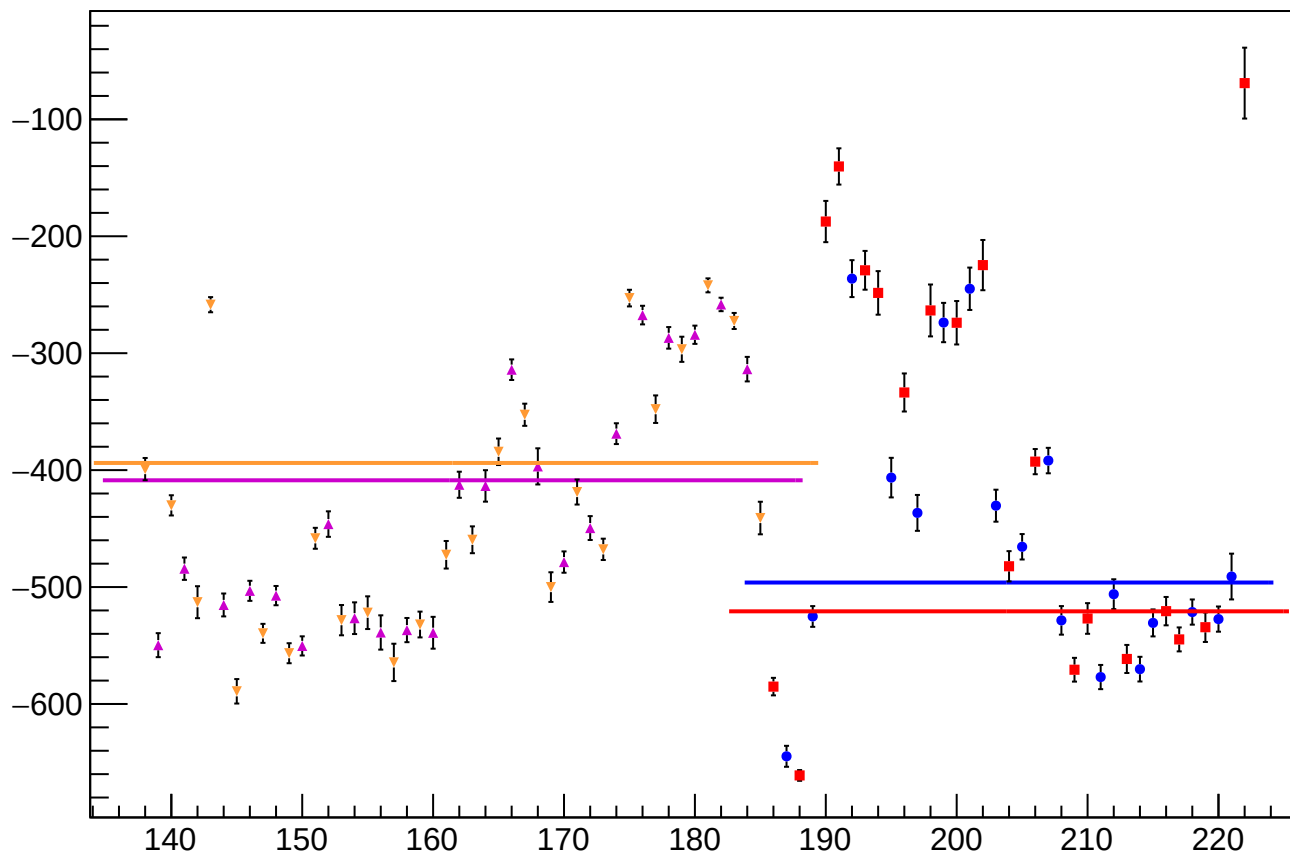
Right: 20.625 $\pm$ 0.019 χ^2 /NDF: 1277375.5/72

In: 5.635 $\pm$ 0.013 χ^2 /NDF: 1028716.7/57

Out: 5.669 $\pm$ 0.013 χ^2 /NDF: 1255250.4/62

All: 5.652 $\pm$ 0.009 χ^2 /NDF: 2283970.4/120

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -496.130 ± 2.837 $\chi^2/\text{NDF}: 1230.3/17$

Left Out: -393.871 ± 1.897 $\chi^2/\text{NDF}: 3772.8/24$

Right Out: -520.759 ± 2.576 $\chi^2/\text{NDF}: 3537.2/18$

Left In: -408.696 ± 1.979 $\chi^2/\text{NDF}: 3062.9/22$

Left: -400.970 ± 1.369 $\chi^2/\text{NDF}: 6864.9/47$

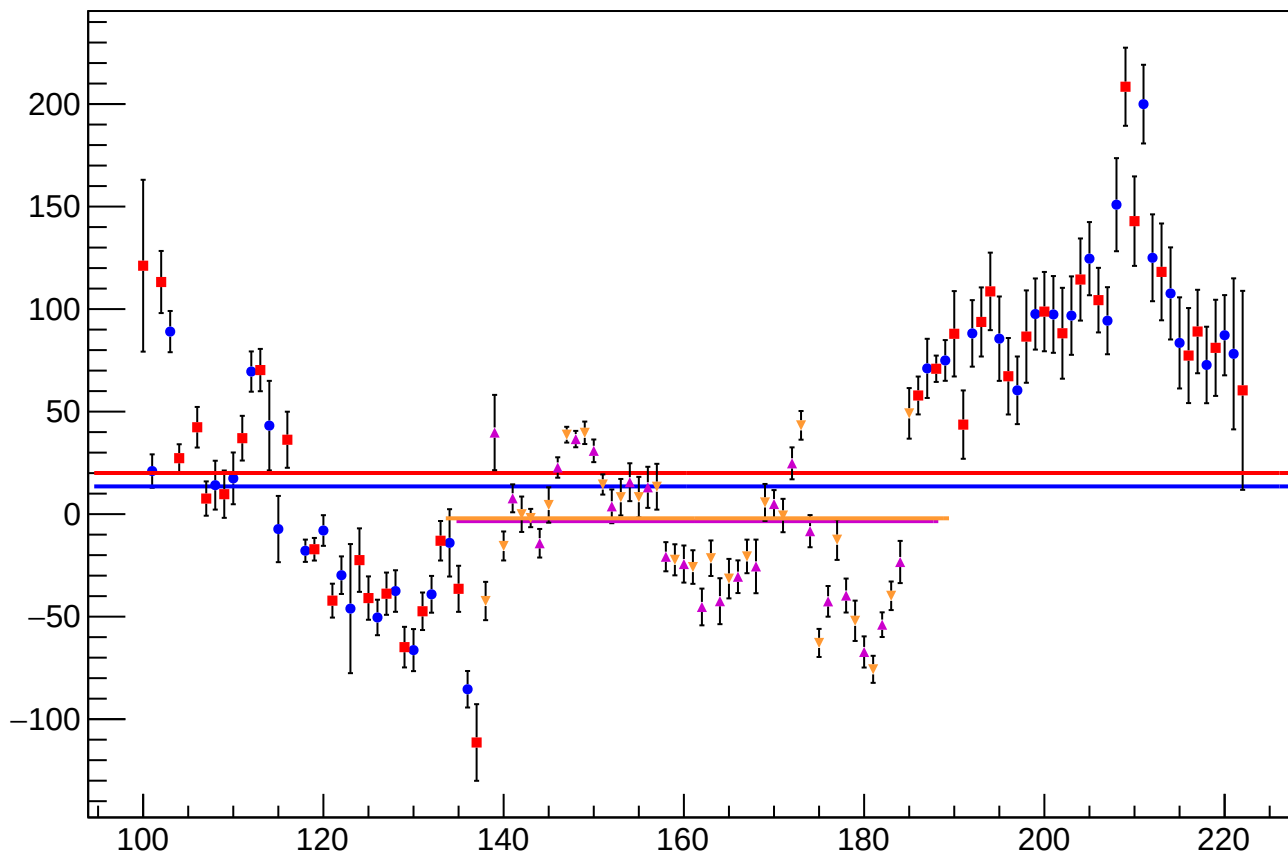
Right: -509.628 ± 1.907 $\chi^2/\text{NDF}: 4808.8/36$

In: -437.315 ± 1.623 $\chi^2/\text{NDF}: 4932.1/40$

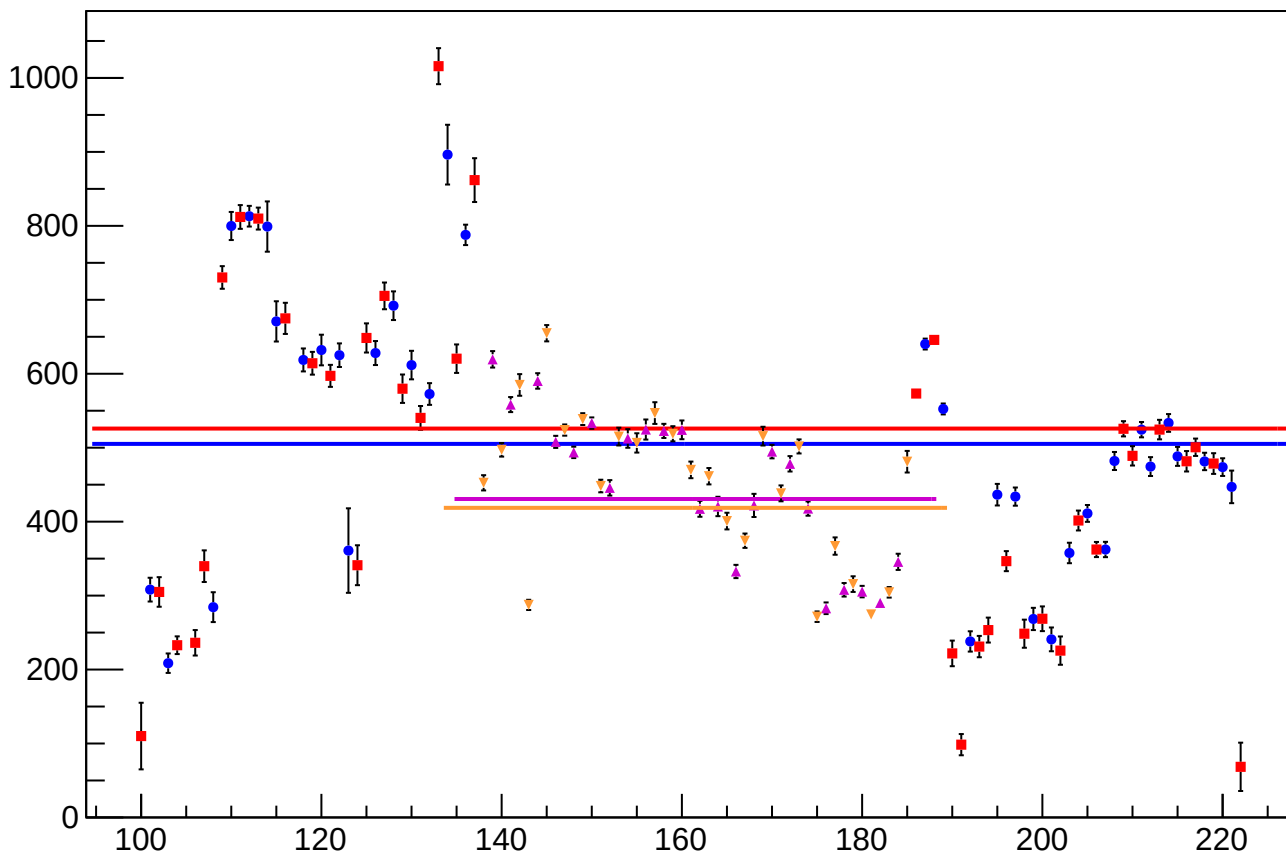
Out: -438.481 ± 1.528 $\chi^2/\text{NDF}: 8882.9/43$

All: -437.933 ± 1.112 $\chi^2/\text{NDF}: 13815.2/84$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 505.152 $\pm$ 2.307 χ^2 /NDF: 4223.9/34

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 525.884 $\pm$ 2.019 χ^2 /NDF: 7315.5/37

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

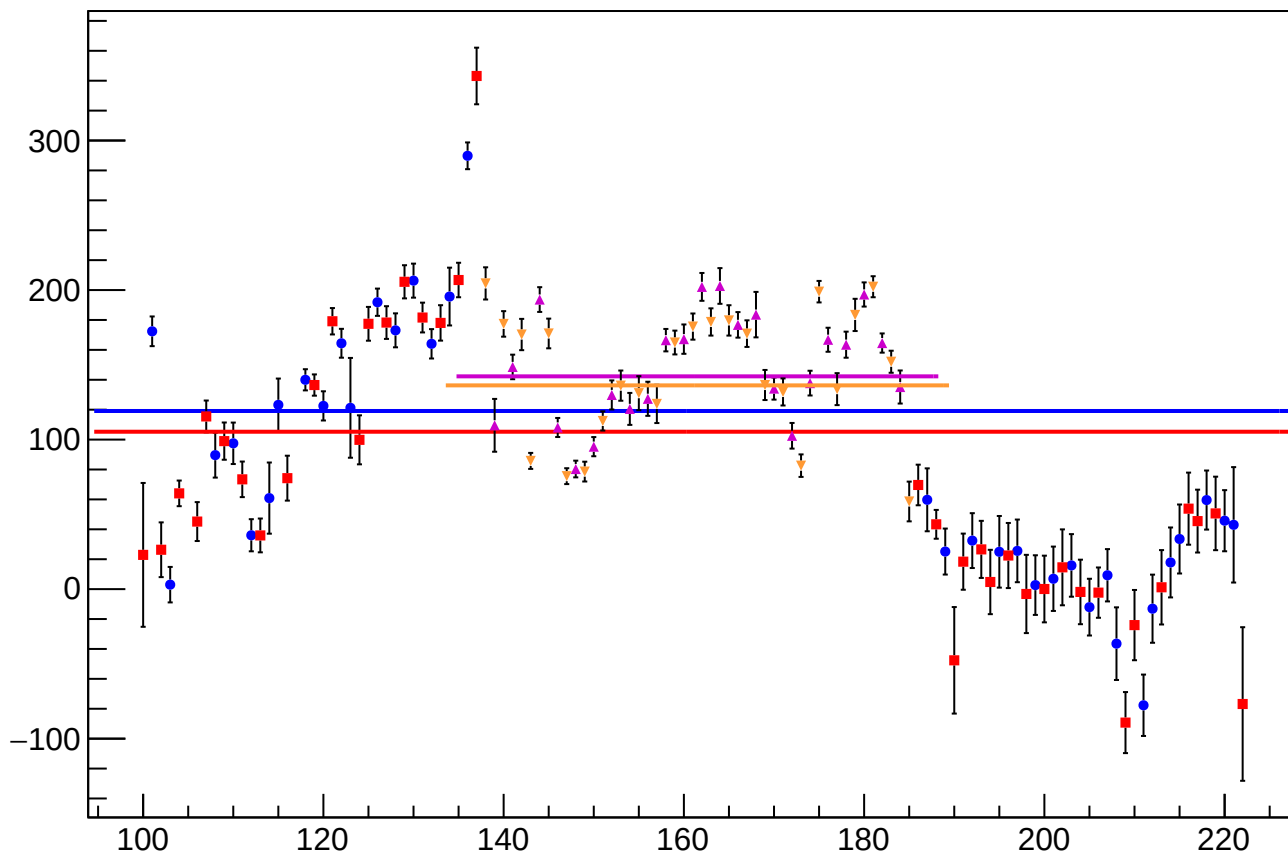
Right: 516.892 $\pm$ 1.519 χ^2 /NDF: 11585.1/72

In: 462.076 $\pm$ 1.498 χ^2 /NDF:7677.6/57

Out: 469.167 $\pm$ 1.386 χ^2 /NDF:12103.6/62

All: 465.898 $\pm$ 1.017 χ^2 /NDF: 19793.2/120

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 119.127 ± 2.374 $\chi^2/\text{NDF}: 1274.1/34$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 105.262 ± 2.264 $\chi^2/\text{NDF}: 1132.3/37$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

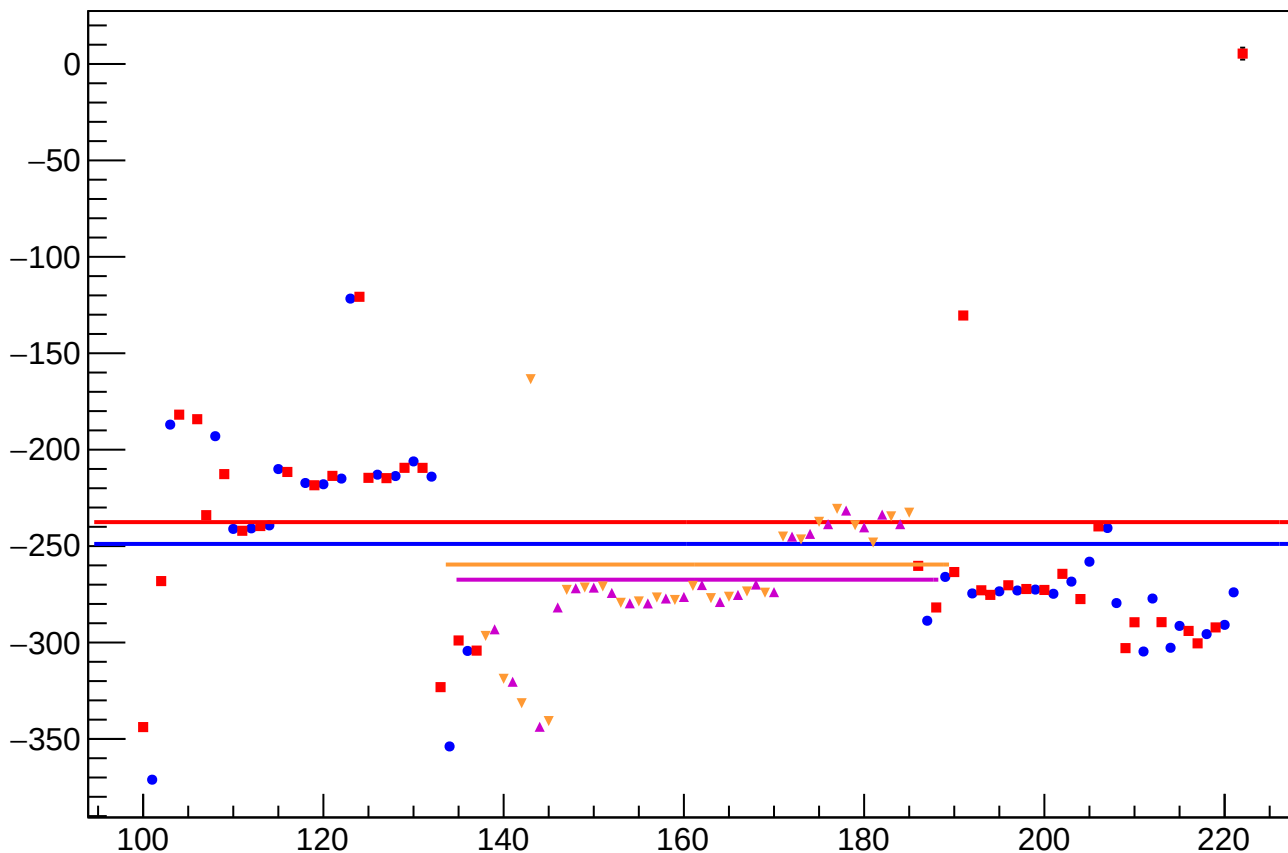
Right: 111.867 ± 1.638 $\chi^2/\text{NDF}: 2424.3/72$

In: 134.170 ± 1.406 $\chi^2/\text{NDF}: 1795.8/57$

Out: 125.498 ± 1.334 $\chi^2/\text{NDF}: 2013.0/62$

All: 129.606 ± 0.968 $\chi^2/\text{NDF}: 3828.8/120$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.876 ± 0.119 χ^2/NDF : 175636.6/34

Left Out: -259.557 ± 0.079 χ^2/NDF : 238235.2/24

Right Out: -237.562 ± 0.111 χ^2/NDF : 195358.2/37

Left In: -267.417 ± 0.082 χ^2/NDF : 98035.5/22

Left: -263.361 ± 0.057 χ^2/NDF : 341051.4/47

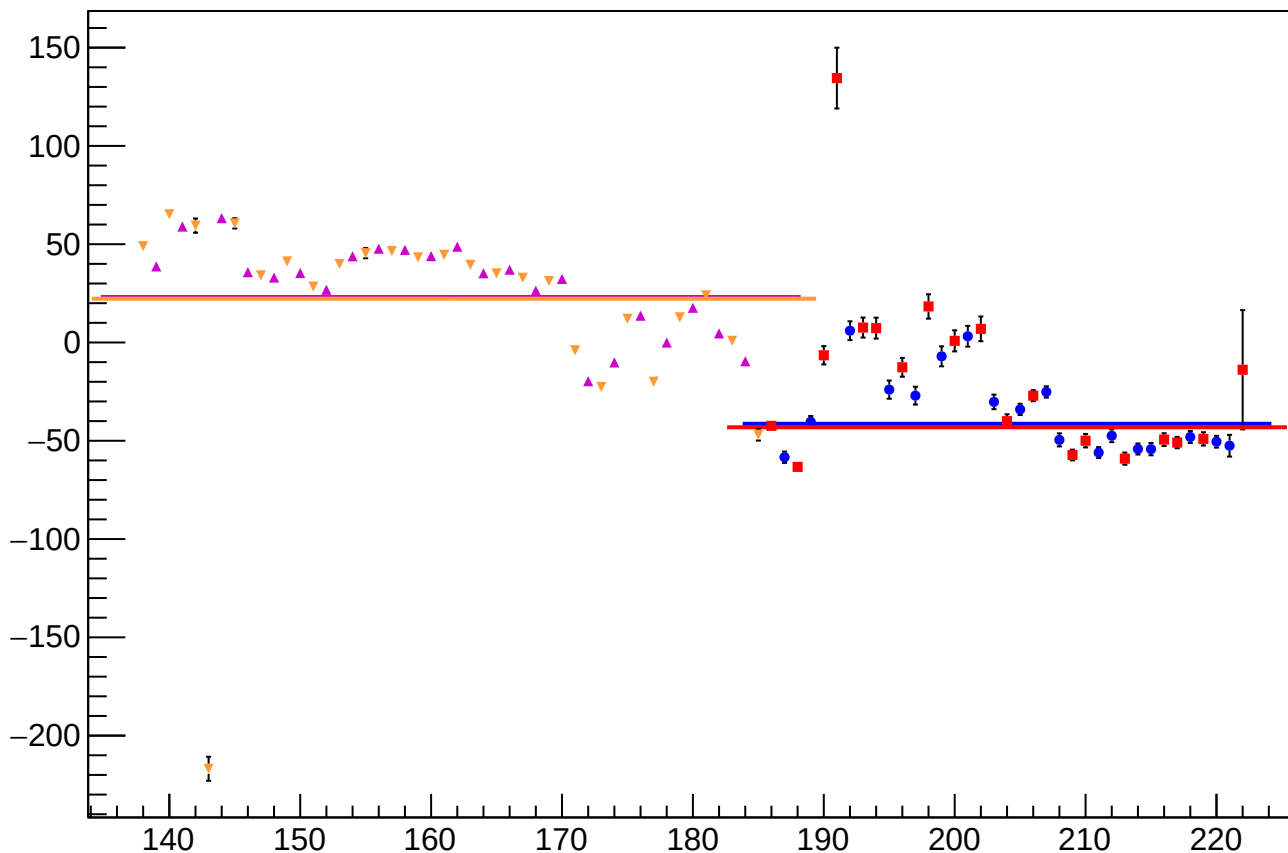
Right: -242.856 ± 0.081 χ^2/NDF : 375843.5/72

In: -261.448 ± 0.067 χ^2/NDF : 290264.9/57

Out: -252.164 ± 0.064 χ^2/NDF : 459589.9/62

All: -256.607 ± 0.047 χ^2/NDF : 759790.7/120

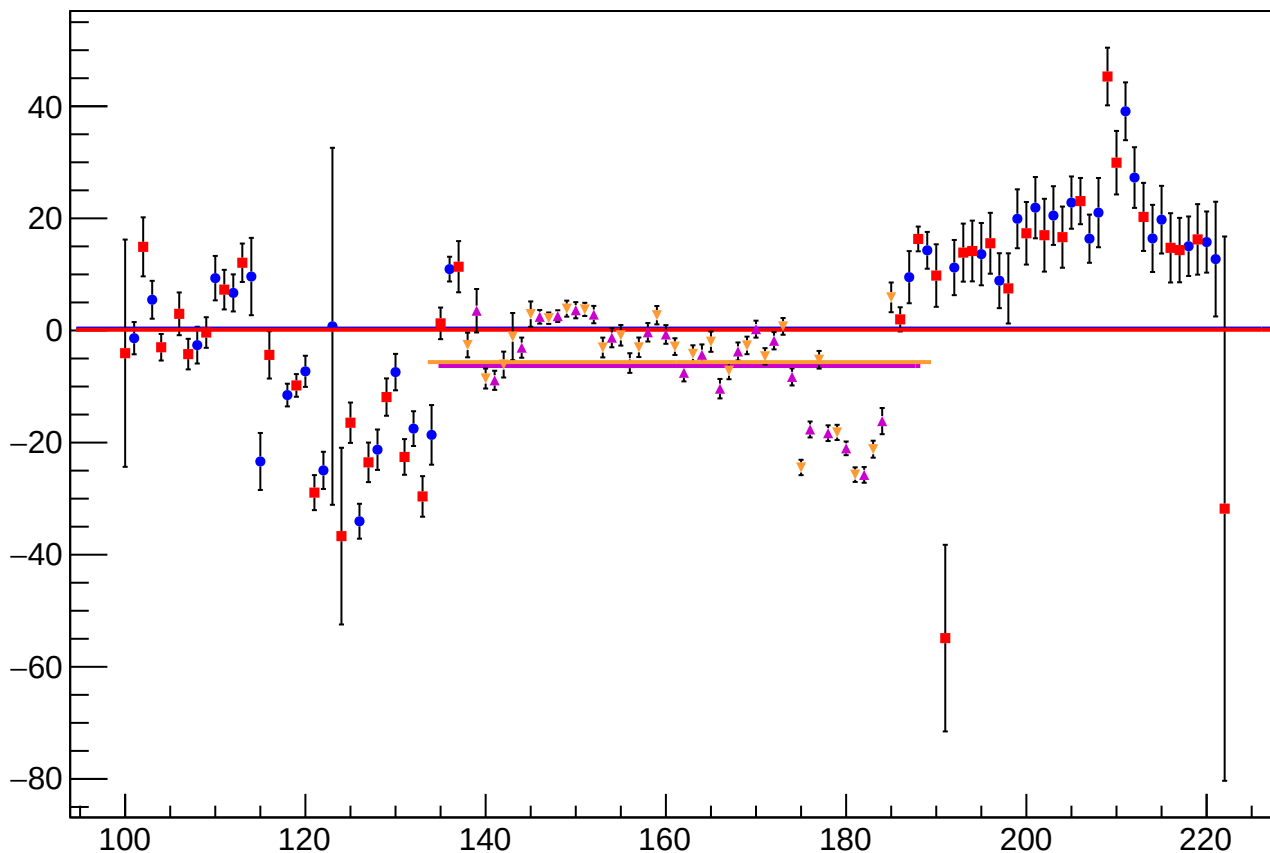
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.352 ± 0.801 $\chi^2/\text{NDF}: 413.4/17$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -43.136 ± 0.740 $\chi^2/\text{NDF}: 924.3/18$
 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: -42.315 ± 0.544 $\chi^2/\text{NDF}: 1340.3/36$
 In: 10.195 ± 0.359 $\chi^2/\text{NDF}: 8336.5/40$
 Out: 7.552 ± 0.351 $\chi^2/\text{NDF}: 12153.9/43$
 All: 8.844 ± 0.251 $\chi^2/\text{NDF}: 20518.2/84$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.342 ± 0.660 χ^2/NDF : 612.7/34

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: 0.127 ± 0.616 χ^2/NDF : 632.4/37

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

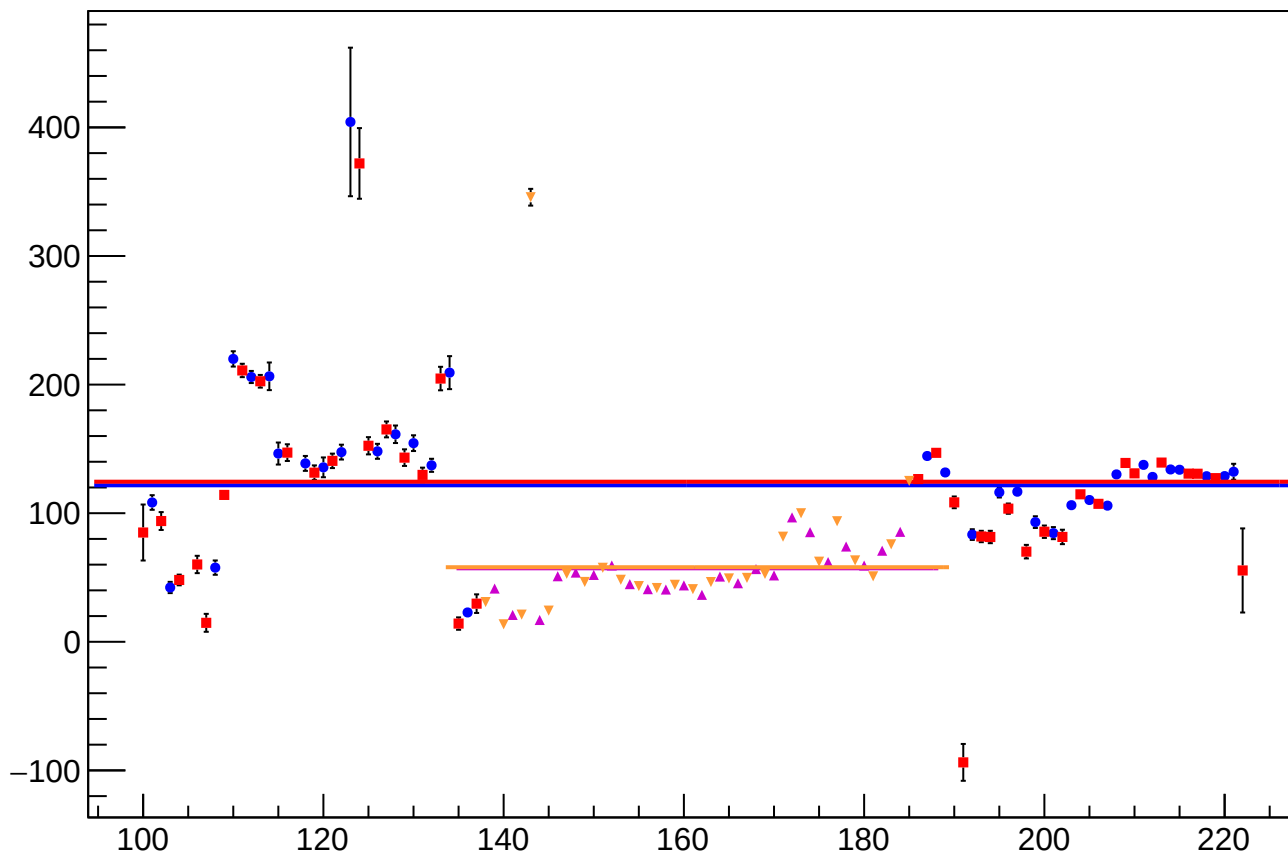
Right: 0.227 ± 0.450 χ^2/NDF : 1245.1/72

In: -5.059 ± 0.289 χ^2/NDF : 1478.4/57

Out: -4.443 ± 0.281 χ^2/NDF : 1595.6/62

All: -4.742 ± 0.201 χ^2/NDF : 3076.3/120

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.692 $\pm$ 0.684 χ^2 /NDF: 2615.6/34

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.497 $\pm$ 0.602 χ^2 /NDF: 3284.3/37

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

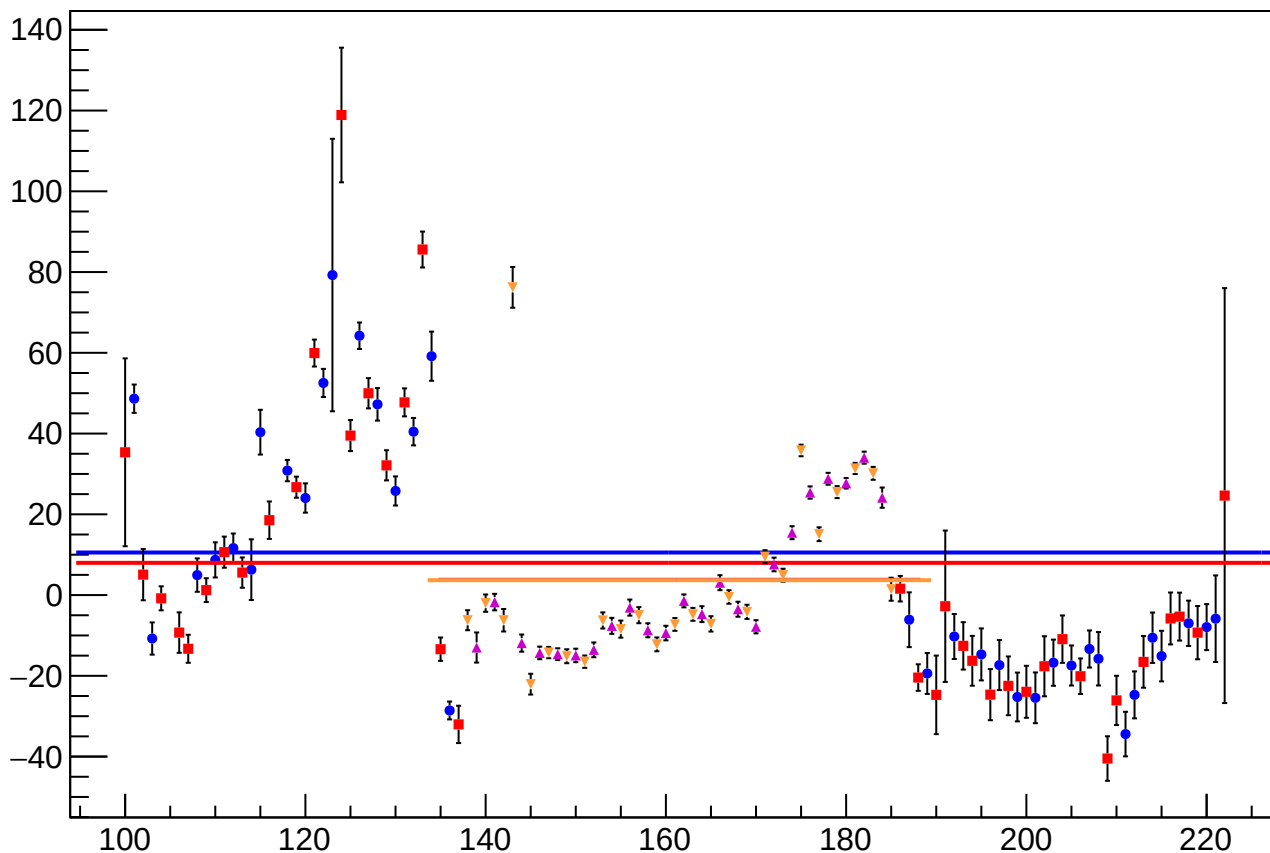
Right: 123.270 $\pm$ 0.452 χ^2 /NDF: 5909.3/72

In: 73.575 $\pm$ 0.345 χ^2 /NDF:11065.2/57

Out: 78.193 $\pm$ 0.332 χ^2 /NDF:16404.7/62

All: 75.972 $\pm$ 0.239 χ^2 /NDF: 27562.9/120

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.542 $\pm$ 0.755 χ^2 /NDF: 1632.5/34

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 7.985 $\pm$ 0.725 χ^2 /NDF: 1599.2/37

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

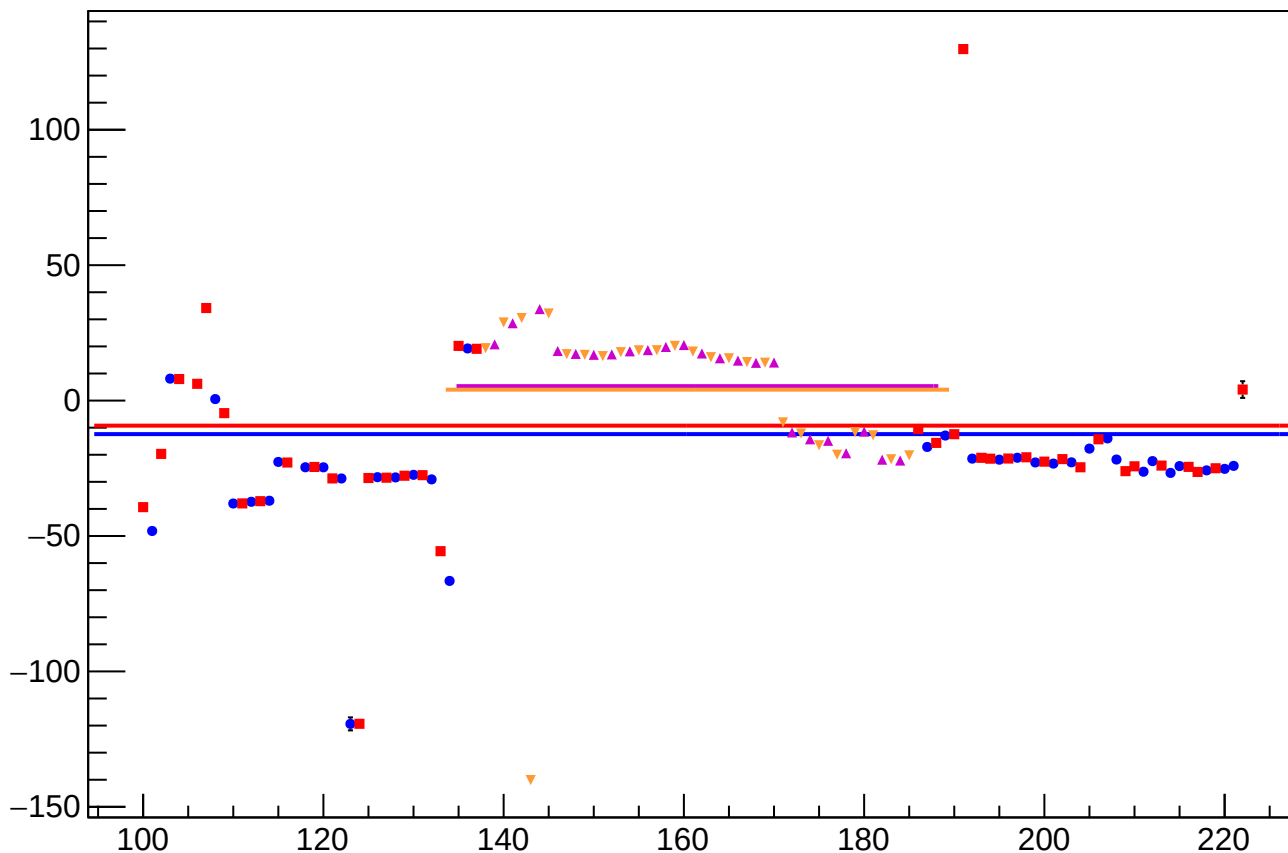
Right: 9.212 $\pm$ 0.523 χ^2 /NDF: 3237.7/72

In: 5.048 $\pm$ 0.326 χ^2 /NDF:3896.5/57

Out: 4.522 $\pm$ 0.320 χ^2 /NDF:4169.2/62

All: 4.780 $\pm$ 0.228 χ^2 /NDF: 8067.0/120

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.382 ± 0.036 χ^2/NDF : 310519.5/34

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.257 ± 0.035 χ^2/NDF : 403300.9/37

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

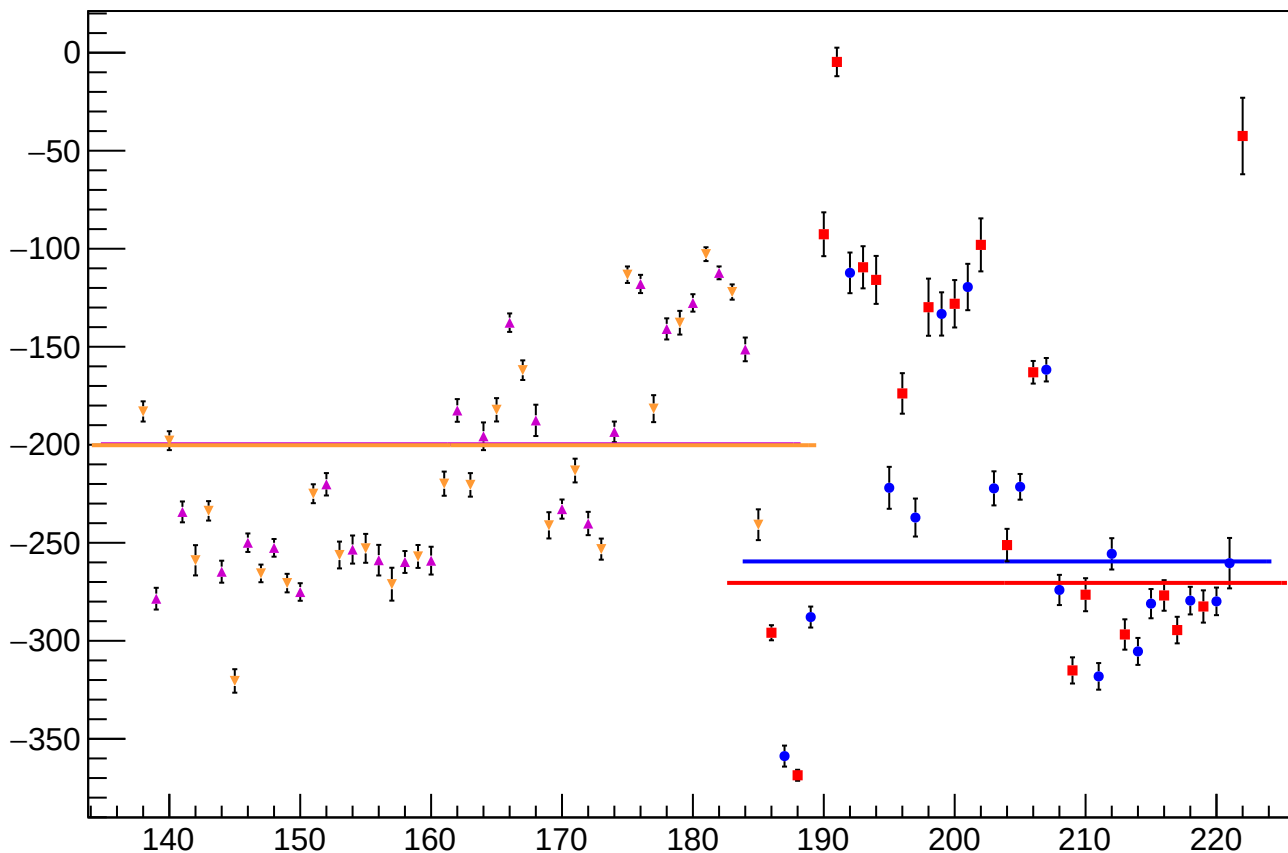
Right: -10.794 ± 0.025 χ^2/NDF : 717752.4/72

In: 2.215 ± 0.015 χ^2/NDF : 1593264.4/57

Out: 1.638 ± 0.015 χ^2/NDF : 1904907.5/62

All: 1.925 ± 0.011 χ^2/NDF : 3498926.9/120

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -259.512 $\pm$ 1.773 χ^2 /NDF: 1329.1/17

Left Out: -200.228 $\pm$ 1.078 χ^2 /NDF:3225.0/24

Right Out: -270.459 $\pm$ 1.551 χ^2 /NDF: 4273.4/18

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

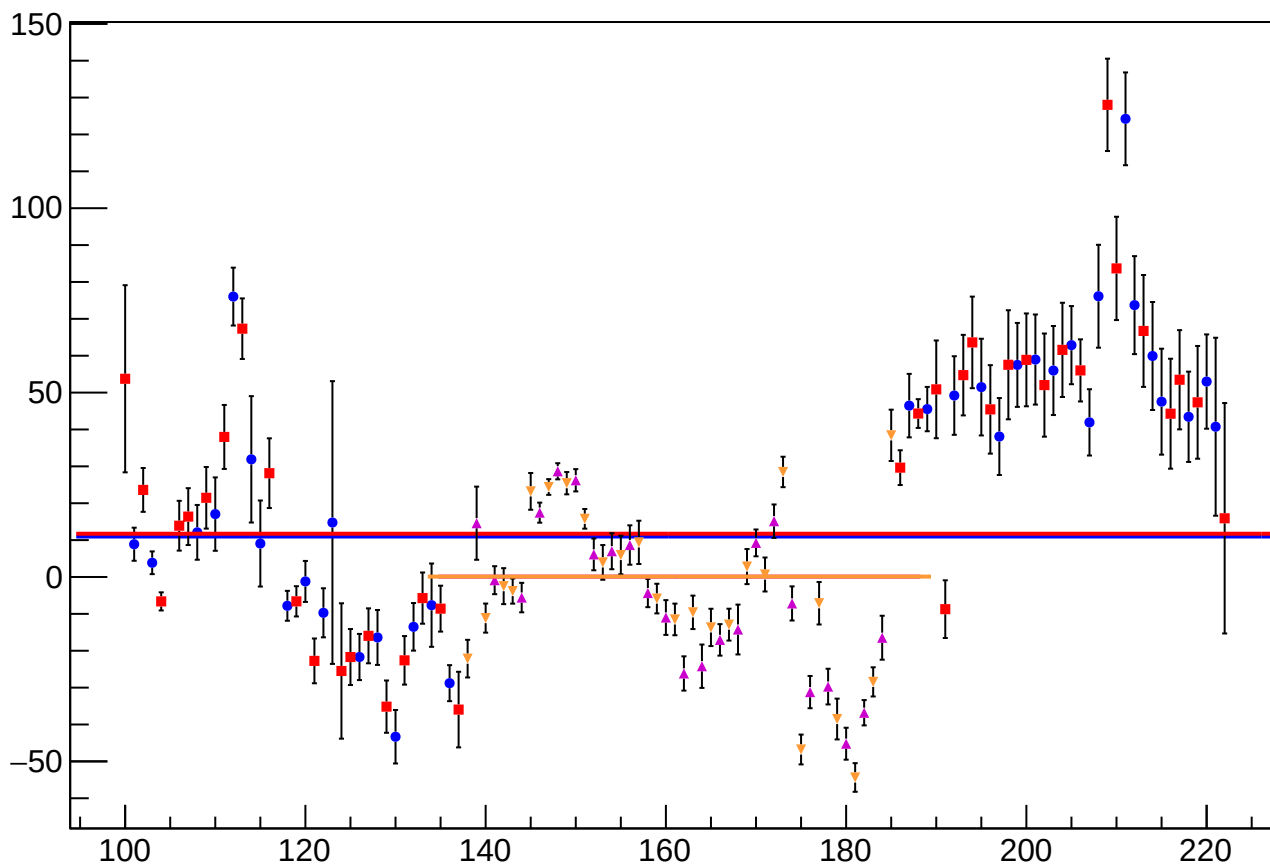
Right: -265.714 $\pm$ 1.167 χ^2 /NDF: 5624.1/36

In: -216.291 $\pm$ 0.933 χ^2 /NDF:5118.6/40

Out: -223.100 $\pm$ 0.885 χ^2 /NDF:8881.1/43

All: -219.875 $\pm$ 0.642 χ^2 /NDF: 14027.7/84

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.983 ± 1.278 $\chi^2/\text{NDF}: 615.8/34$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 11.728 ± 1.167 $\chi^2/\text{NDF}: 682.7/37$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

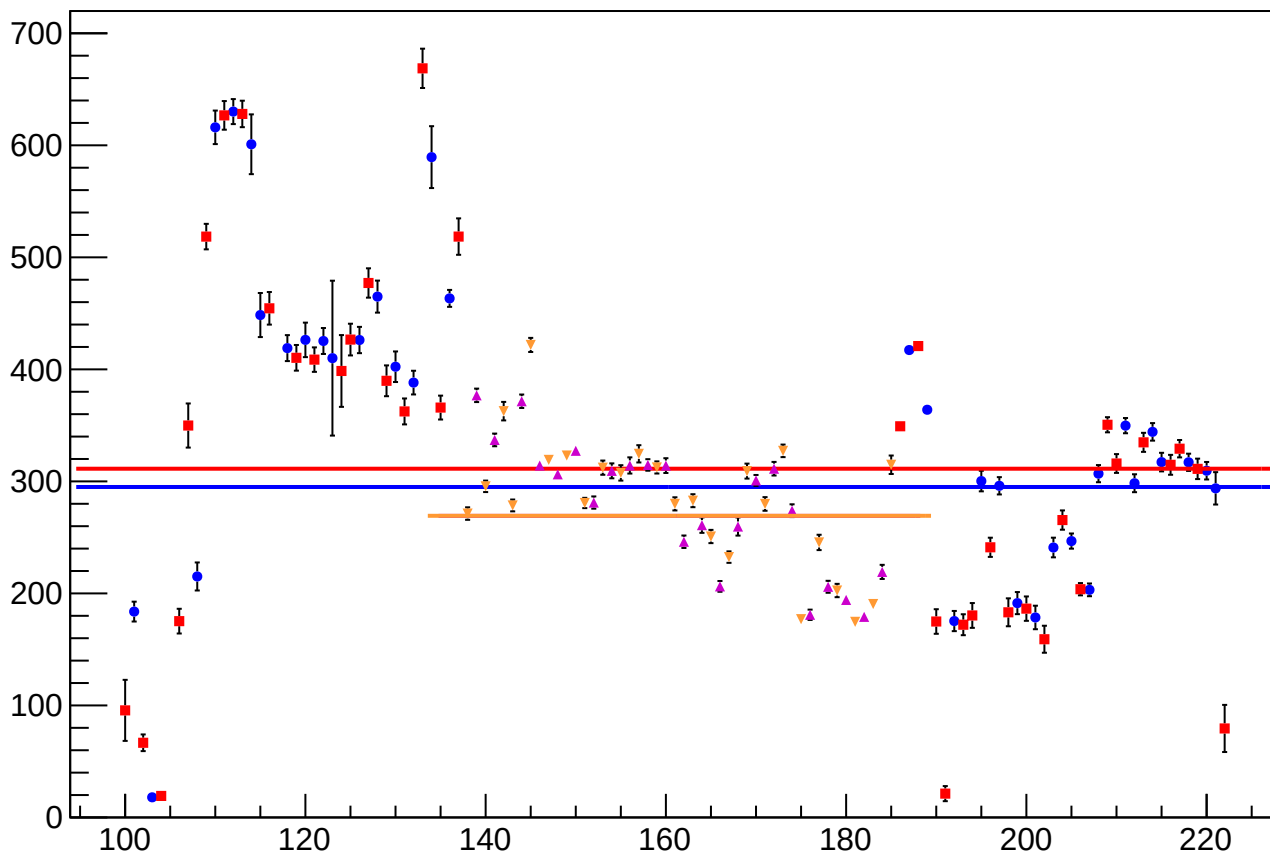
Right: 11.389 ± 0.862 $\chi^2/\text{NDF}: 1298.6/72$

In: 3.368 ± 0.701 $\chi^2/\text{NDF}: 1382.0/57$

Out: 3.867 ± 0.664 $\chi^2/\text{NDF}: 1580.9/62$

All: 3.631 ± 0.482 $\chi^2/\text{NDF}: 2963.2/120$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.995 $\pm$ 1.397 χ^2 /NDF: 9657.5/34

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 311.308 $\pm$ 1.201 χ^2 /NDF: 14530.6/37

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

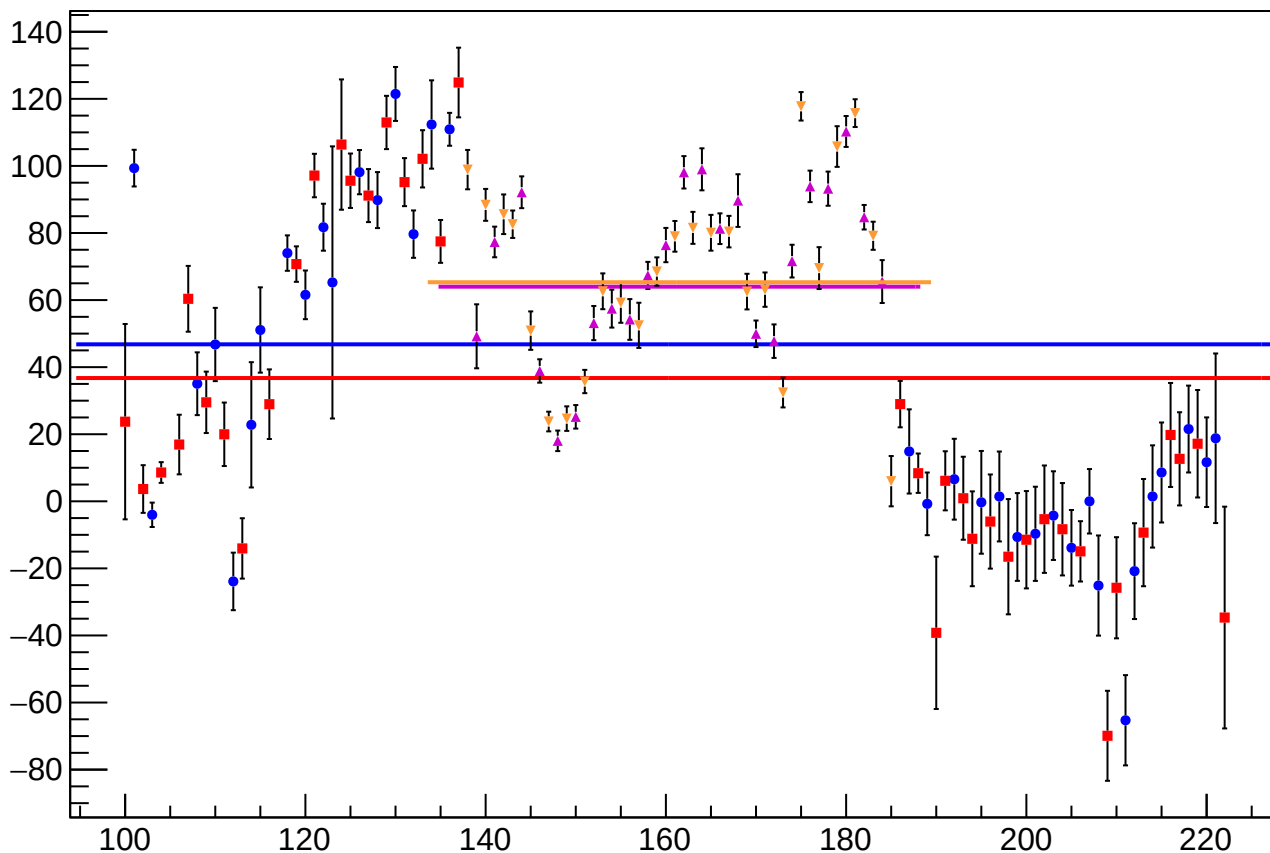
Right: 304.372 $\pm$ 0.911 χ^2 /NDF: 24266.5/72

In: 278.962 $\pm$ 0.860 χ^2 /NDF:13039.7/57

Out: 288.015 $\pm$ 0.802 χ^2 /NDF:18355.5/62

All: 283.801 $\pm$ 0.586 χ^2 /NDF: 31454.5/120

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 46.806 $\pm$ 1.484 χ^2 /NDF: 1114.9/34

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 36.754 $\pm$ 1.402 χ^2 /NDF: 970.3/37

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

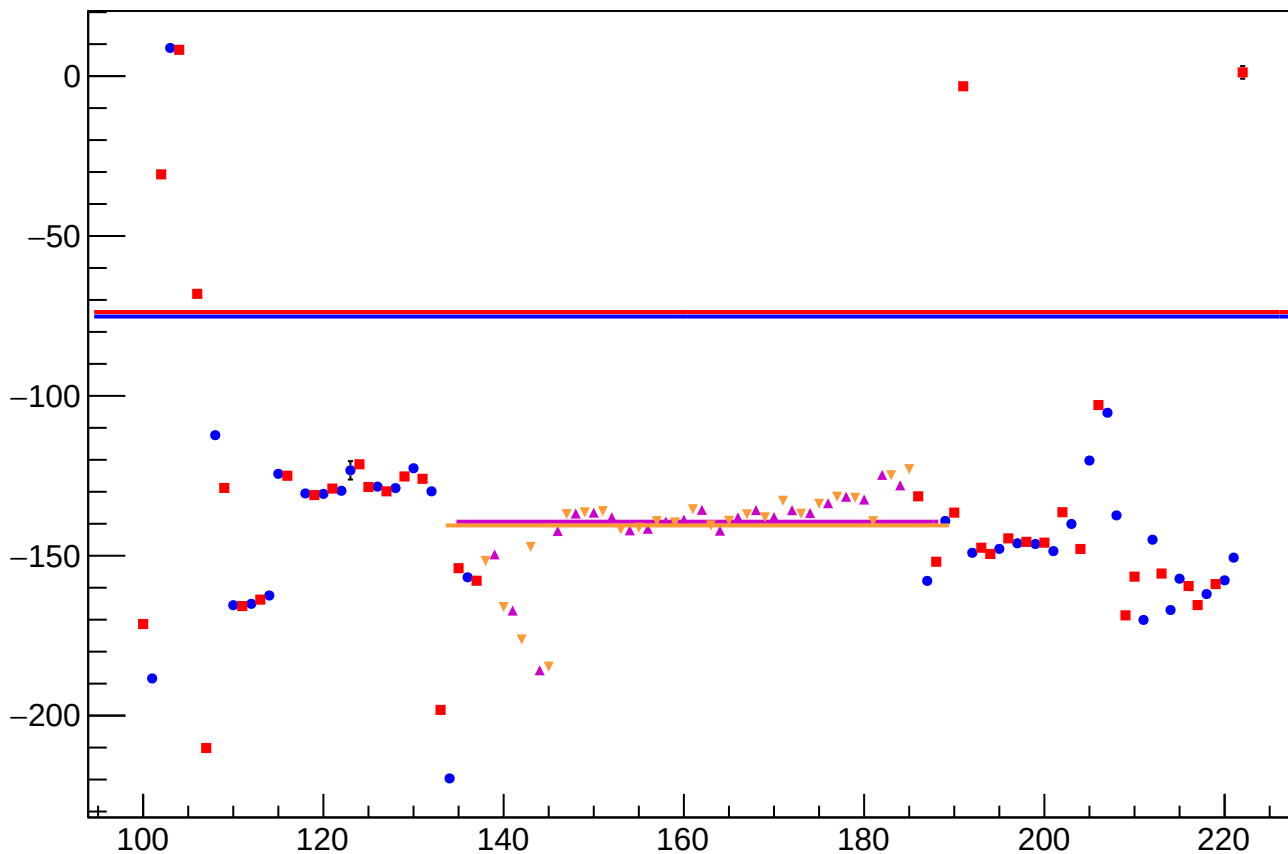
Right: 41.493 $\pm$ 1.019 χ^2 /NDF: 2109.5/72

In: 58.906 $\pm$ 0.808 χ^2 /NDF:2008.9/57

Out: 56.530 $\pm$ 0.778 χ^2 /NDF:2265.0/62

All: 57.673 $\pm$ 0.560 χ^2 /NDF: 4278.3/120

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -75.190 ± 0.061 $\chi^2/\text{NDF}: 1636178.8/34$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.768 ± 0.060 $\chi^2/\text{NDF}: 1467401.6/37$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

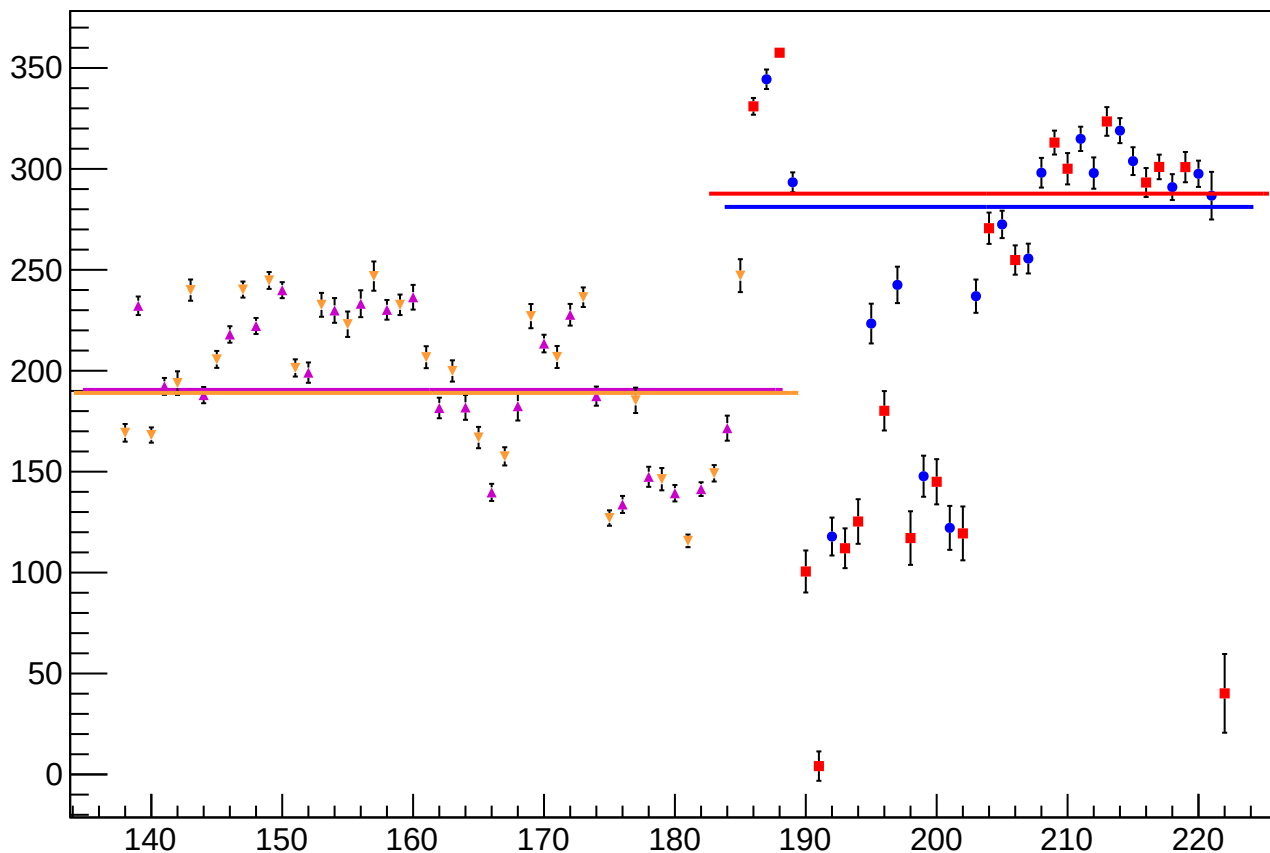
Right: -74.463 ± 0.043 $\chi^2/\text{NDF}: 3103857.3/72$

In: -116.786 ± 0.036 $\chi^2/\text{NDF}: 2413669.7/57$

Out: -116.662 ± 0.036 $\chi^2/\text{NDF}: 2347144.6/62$

All: -116.723 ± 0.025 $\chi^2/\text{NDF}: 4760820.2/12$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 281.169 $\pm$ 1.676 χ^2 /NDF: 1057.8/17

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 287.740 $\pm$ 1.473 χ^2 /NDF: 4109.8/18

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

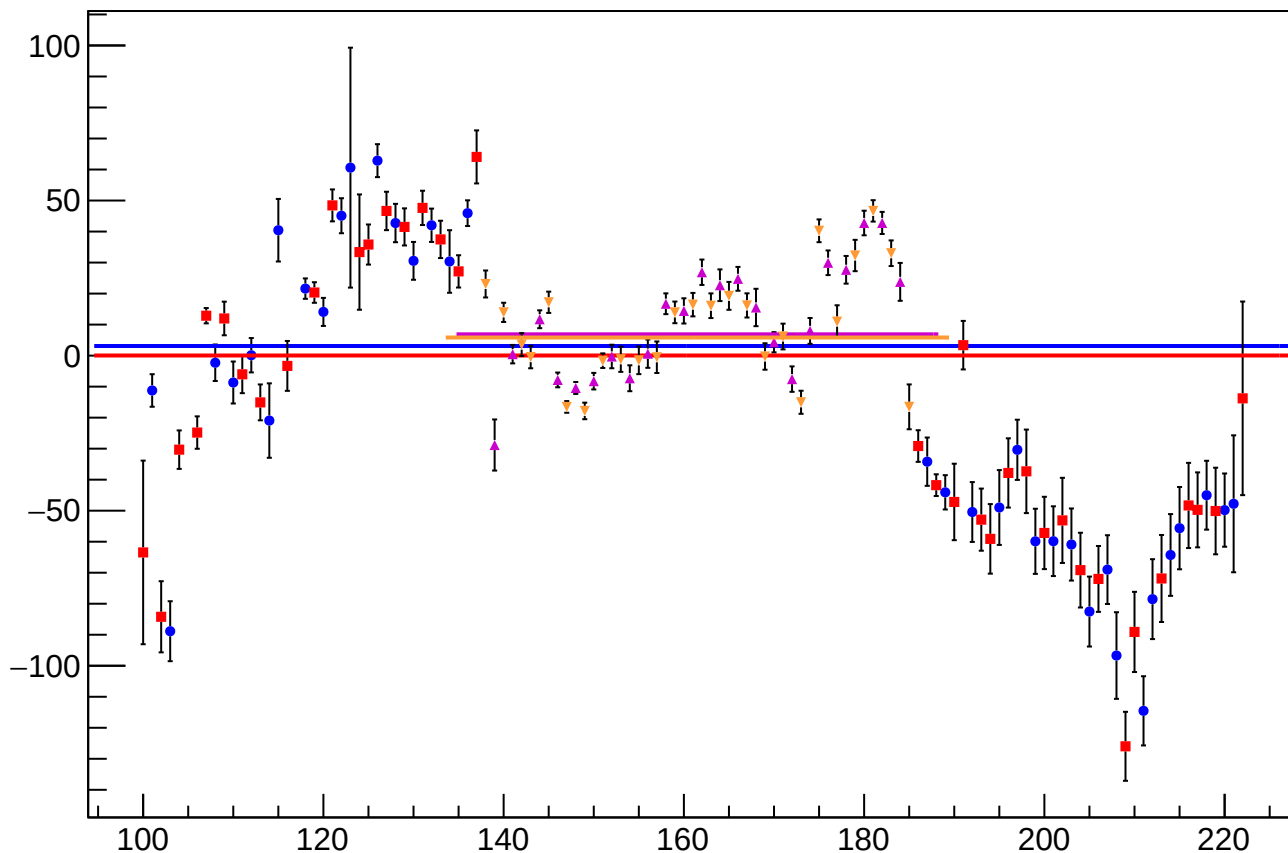
Right: 284.877 $\pm$ 1.107 χ^2 /NDF: 5176.3/36

In: 213.426 $\pm$ 0.843 χ^2 /NDF:4656.0/40

Out: 218.279 $\pm$ 0.802 χ^2 /NDF:9250.6/43

All: 215.973 $\pm$ 0.581 χ^2 /NDF: 13924.0/84

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.096 ± 1.215 $\chi^2/\text{NDF}: 1216.1/34$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.039 ± 1.053 $\chi^2/\text{NDF}: 1233.2/37$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

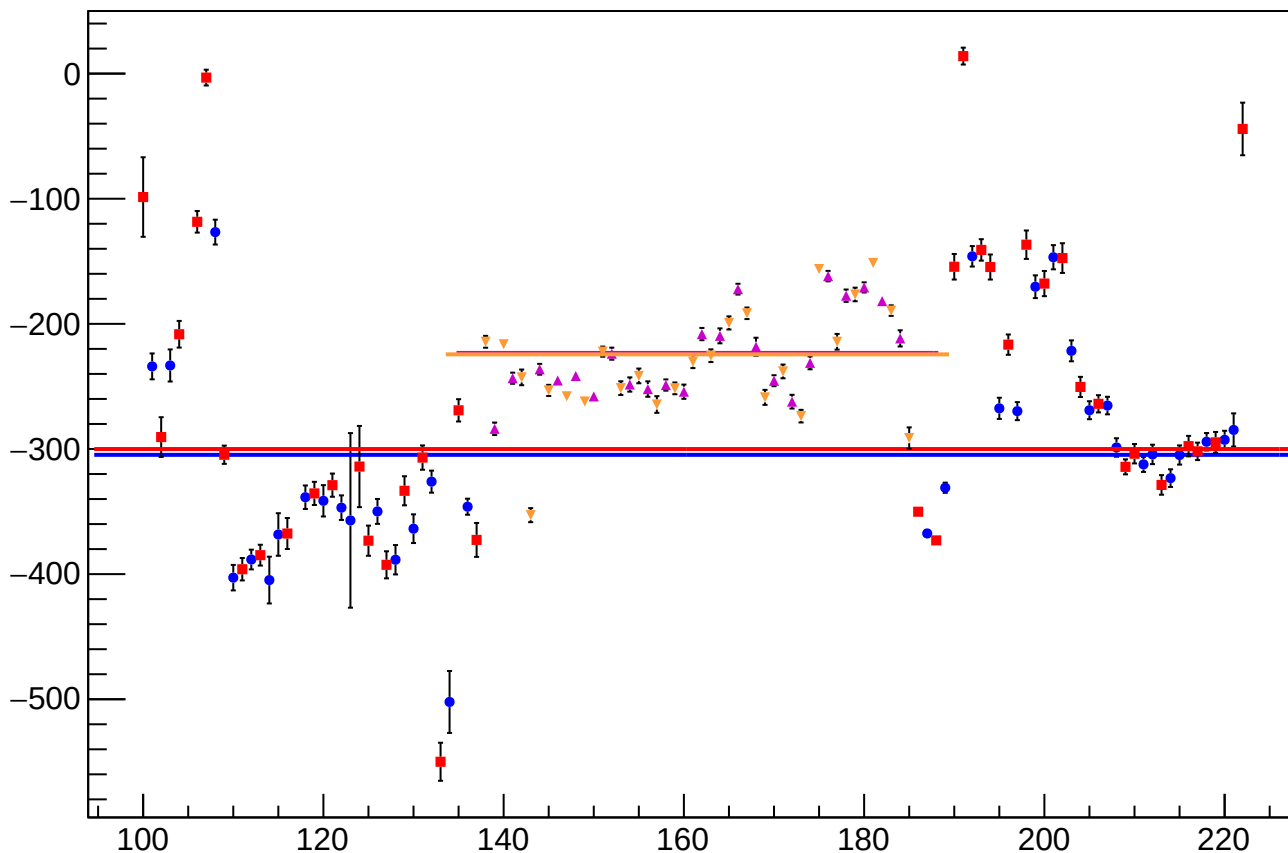
Right: 1.349 ± 0.796 $\chi^2/\text{NDF}: 2452.9/72$

In: 5.850 ± 0.630 $\chi^2/\text{NDF}: 1745.9/57$

Out: 4.013 ± 0.590 $\chi^2/\text{NDF}: 1906.2/62$

All: 4.872 ± 0.431 $\chi^2/\text{NDF}: 3656.6/120$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -304.663 ± 1.357 $\chi^2/\text{NDF}: 2264.8/34$

Left Out: -224.364 ± 0.956 $\chi^2/\text{NDF}: 2103.2/24$

Right Out: -300.035 ± 1.142 $\chi^2/\text{NDF}: 8826.8/37$

Left In: -223.223 ± 0.969 $\chi^2/\text{NDF}: 1269.3/22$

Left: -223.801 ± 0.681 $\chi^2/\text{NDF}: 3373.2/47$

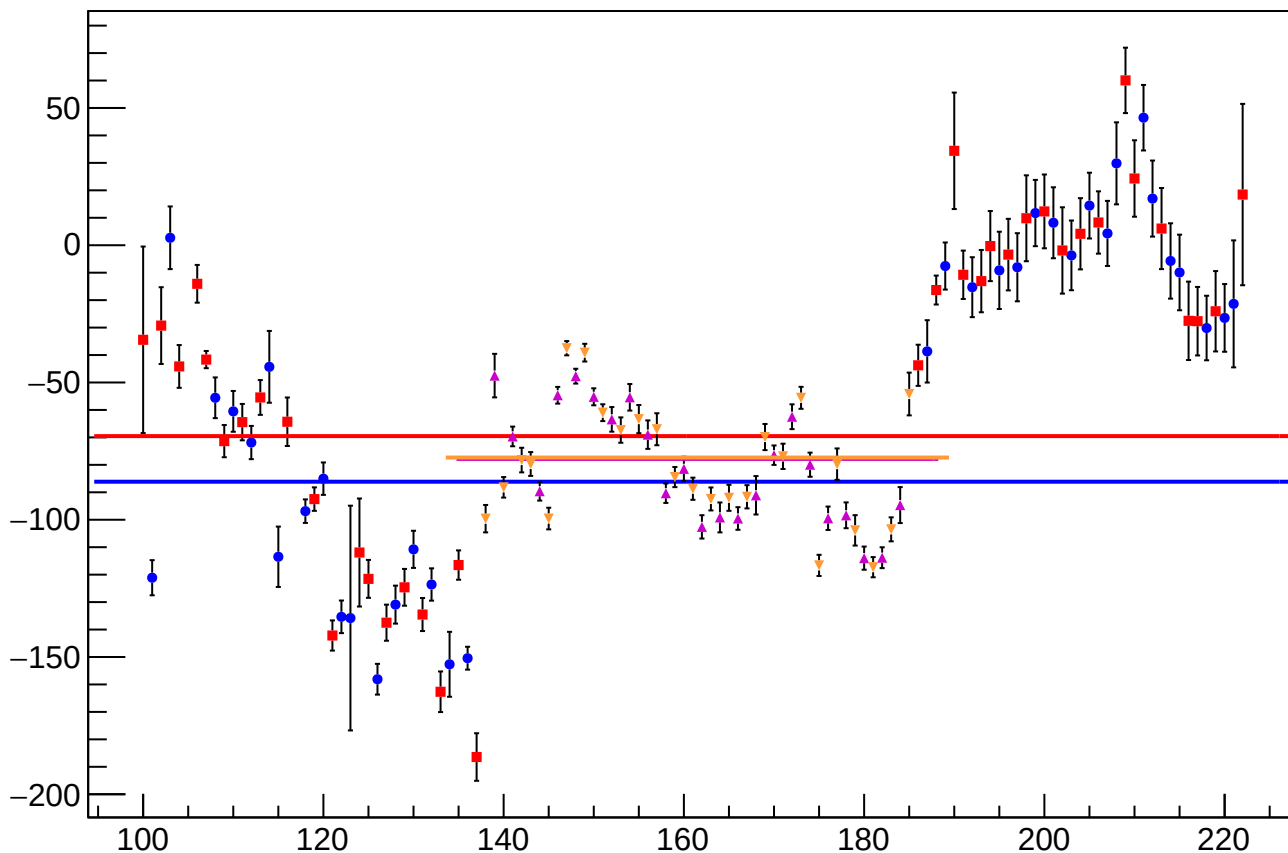
Right: -301.953 ± 0.874 $\chi^2/\text{NDF}: 11098.5/72$

In: -250.732 ± 0.789 $\chi^2/\text{NDF}: 5919.2/57$

Out: -255.554 ± 0.733 $\chi^2/\text{NDF}: 13512.3/62$

All: -253.319 ± 0.537 $\chi^2/\text{NDF}: 19451.6/120$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.145 ± 1.404 $\chi^2/\text{NDF}: 1609.4/34$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -69.536 ± 1.255 $\chi^2/\text{NDF}: 1792.9/37$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

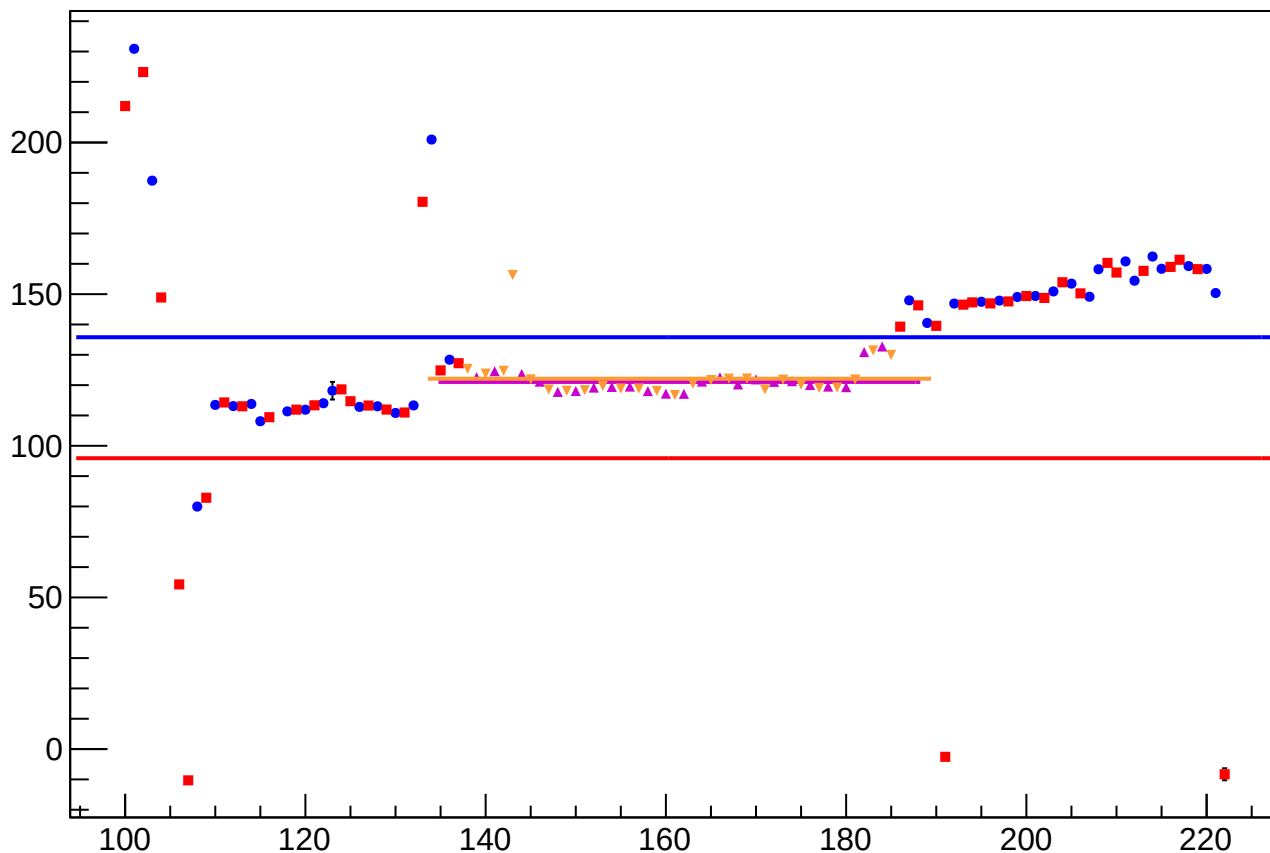
Right: -76.912 ± 0.935 $\chi^2/\text{NDF}: 3480.2/72$

In: -80.062 ± 0.726 $\chi^2/\text{NDF}: 2257.9/57$

Out: -74.980 ± 0.690 $\chi^2/\text{NDF}: 2666.2/62$

All: -77.392 ± 0.500 $\chi^2/\text{NDF}: 4949.8/120$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.800 $\pm$ 0.071 χ^2 /NDF: 214046.5/34

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF: 30480.7/24

Right Out: 95.905 $\pm$ 0.061 χ^2 /NDF: 1183205.6/37

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

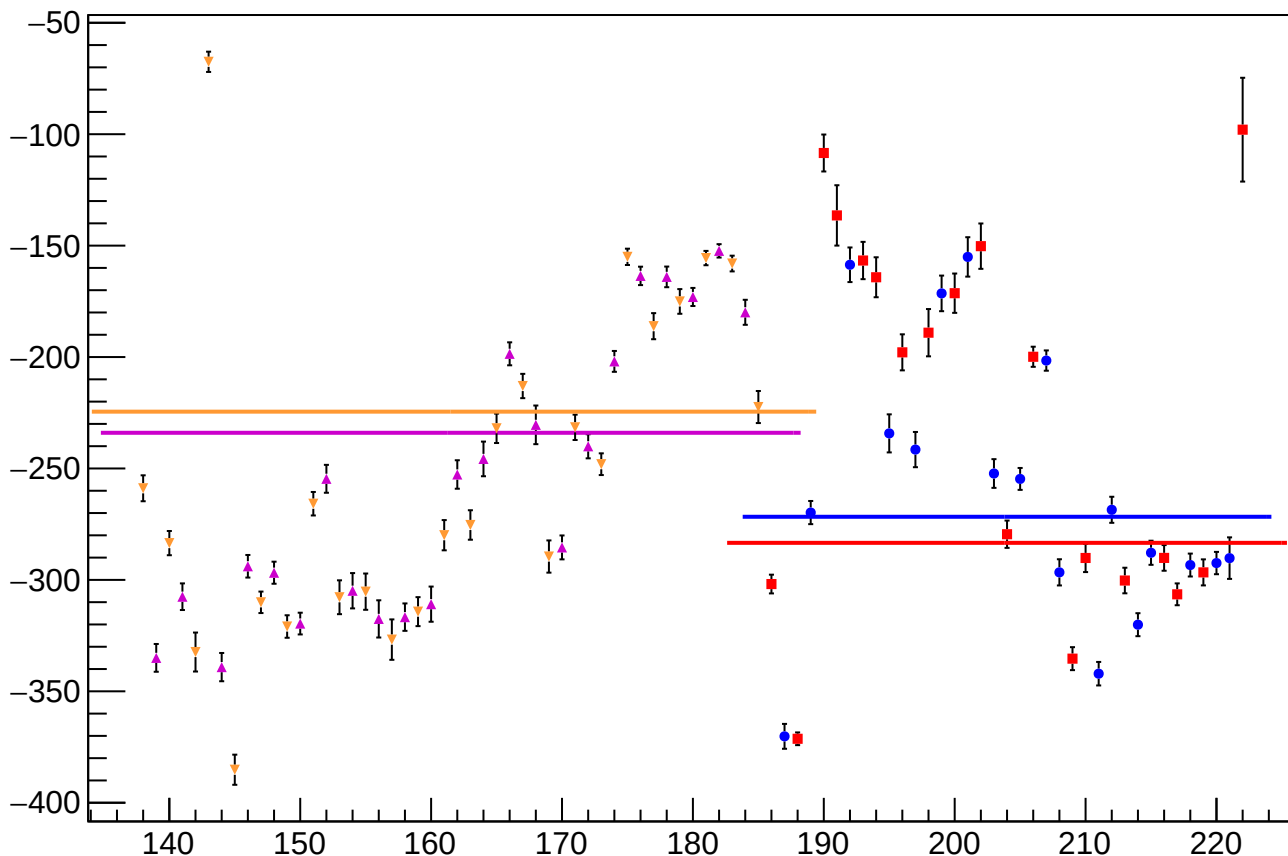
Right: 112.730 $\pm$ 0.046 χ^2 /NDF: 1578181.0/72

In: 124.548 $\pm$ 0.035 χ^2 /NDF: 254594.3/57

Out: 114.382 $\pm$ 0.033 χ^2 /NDF: 1344244.8/62

All: 119.222 $\pm$ 0.024 χ^2 /NDF: 1643769.8/120

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected

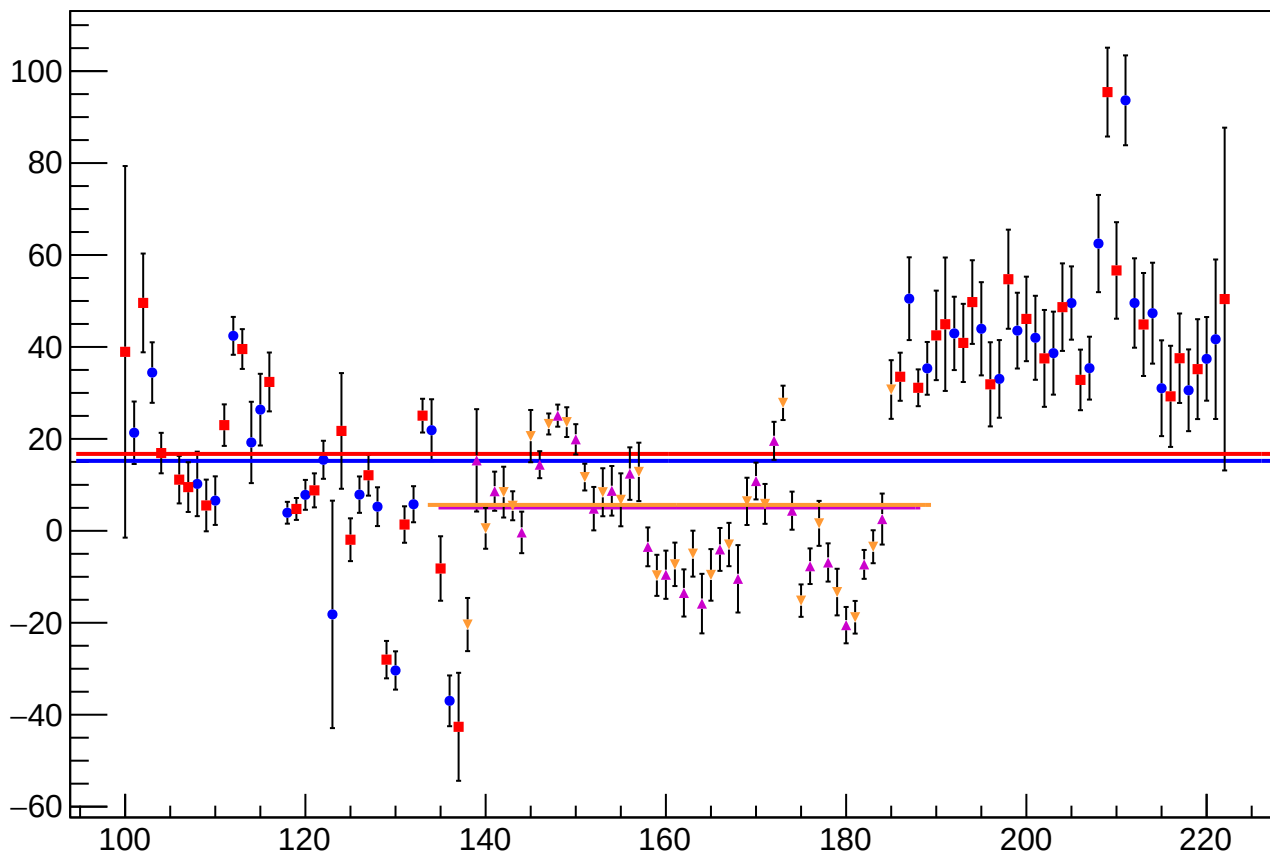


Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$
 Right: -277.699 ± 0.973 $\chi^2/\text{NDF}: 4523.0/36$

Right In: -271.673 ± 1.397 $\chi^2/\text{NDF}: 1479.2/17$
 Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$
 Right Out: -283.372 ± 1.355 $\chi^2/\text{NDF}: 3007.6/18$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

In: -248.553 ± 0.868 $\chi^2/\text{NDF}: 5464.2/40$
 Out: -247.343 ± 0.844 $\chi^2/\text{NDF}: 9033.1/43$
 All: -247.931 ± 0.605 $\chi^2/\text{NDF}: 14498.4/84$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.215 $\pm$ 0.975 χ^2 /NDF: 538.6/34

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.732 $\pm$ 0.936 χ^2 /NDF: 477.0/37

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

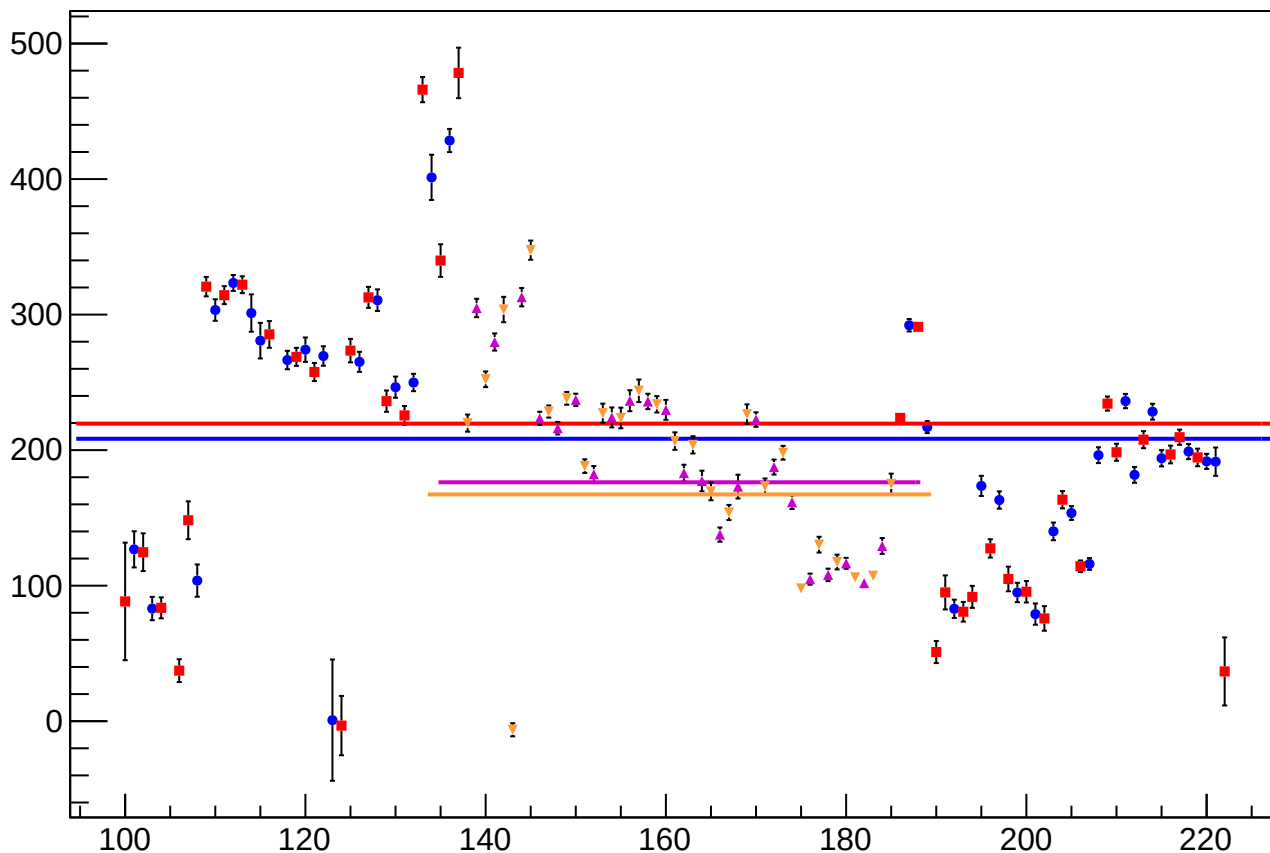
Right: 16.004 $\pm$ 0.675 χ^2 /NDF: 1016.8/72

In: 9.566 $\pm$ 0.649 χ^2 /NDF:838.5/57

Out: 10.505 $\pm$ 0.620 χ^2 /NDF:869.4/62

All: 10.056 $\pm$ 0.448 χ^2 /NDF: 1709.0/120

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.388+/-1.142 χ^2/NDF : 4276.7/34

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 219.565+/-1.056 χ^2/NDF : 6682.4/37

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

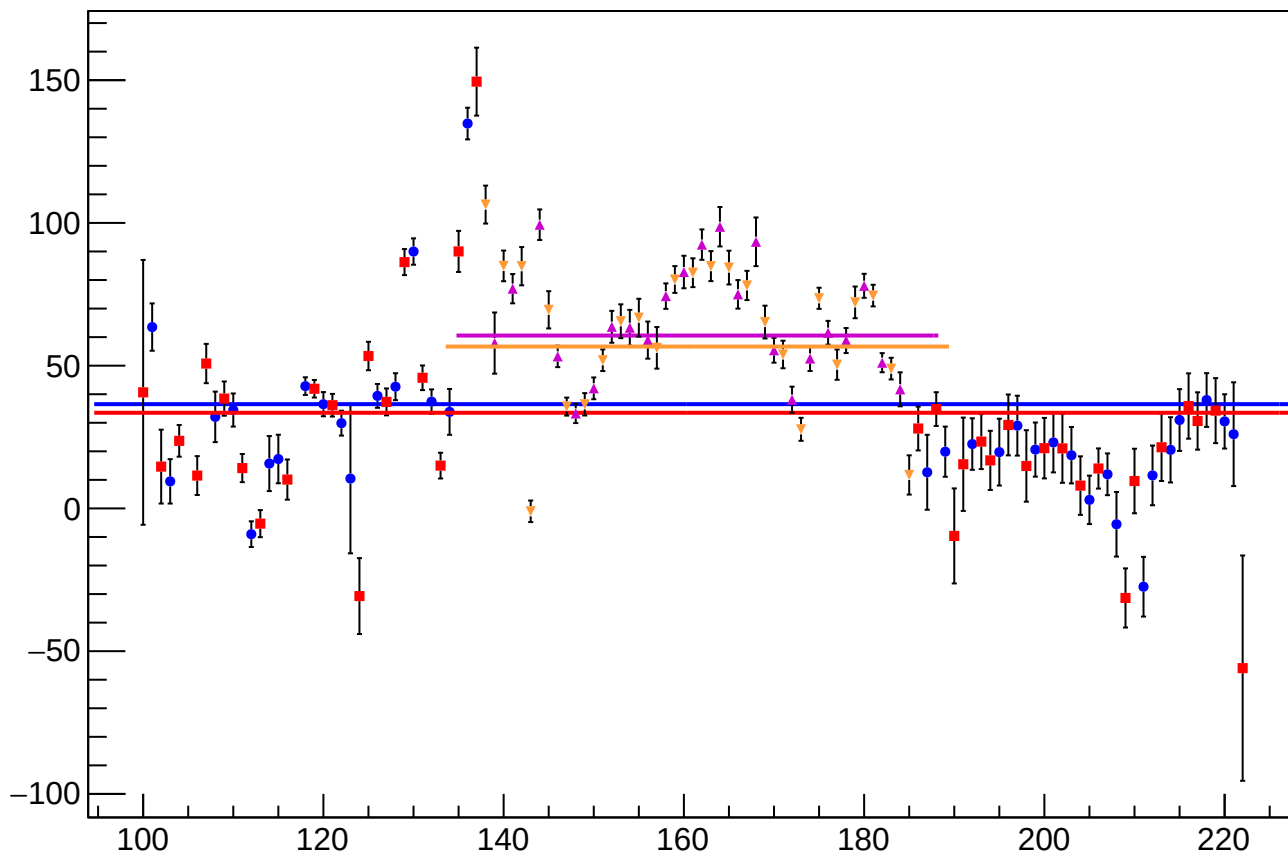
Right: 214.413+/-0.776 χ^2/NDF : 11010.7/72

In: 191.808+/-0.794 χ^2/NDF : 7854.3/57

Out: 194.086+/-0.756 χ^2/NDF : 12329.8/62

All: 193.003+/-0.548 χ^2/NDF : 20188.4/120

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.521 ± 1.124 χ^2/NDF : 699.7/34

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 33.504 ± 1.093 χ^2/NDF : 560.8/37

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

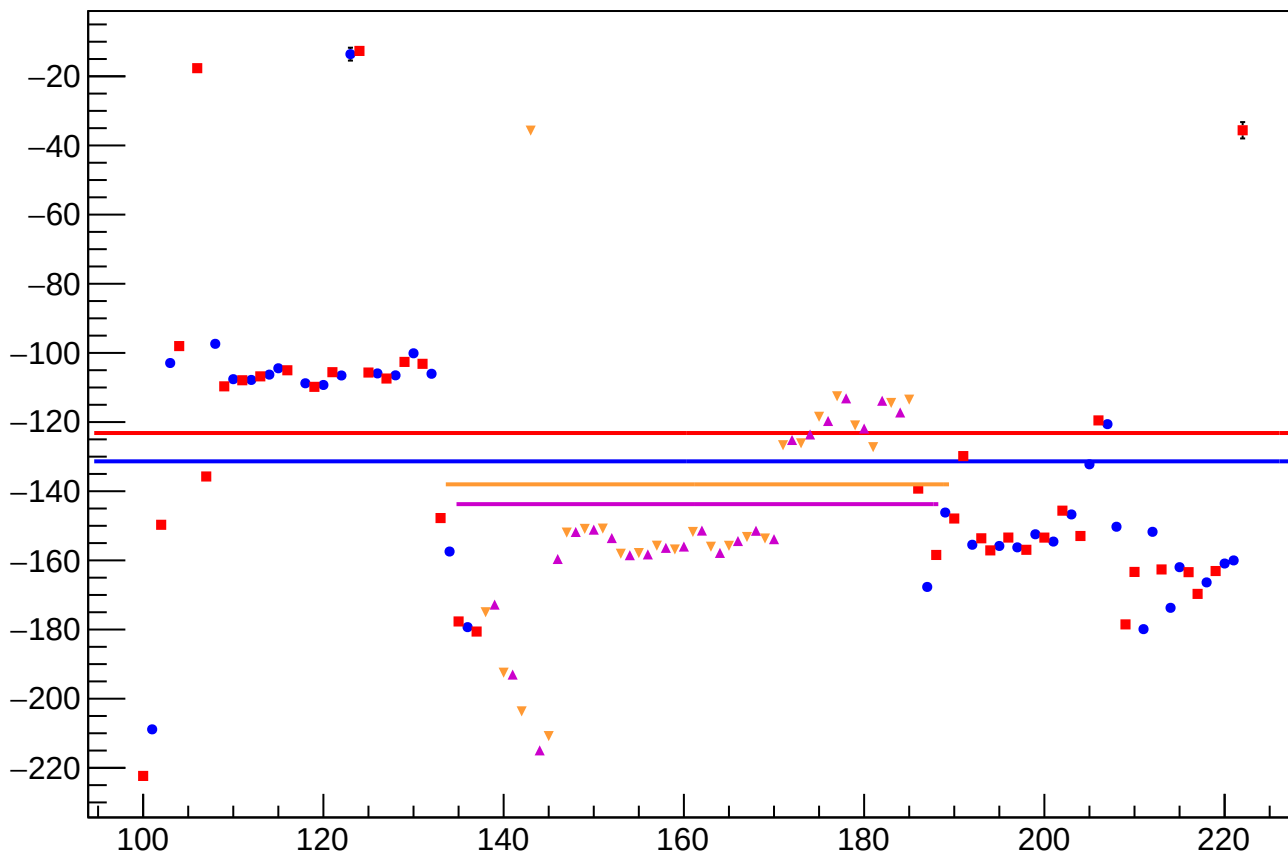
Right: 34.970 ± 0.783 χ^2/NDF : 1264.2/72

In: 50.052 ± 0.743 χ^2/NDF : 1292.8/57

Out: 46.690 ± 0.718 χ^2/NDF : 1507.3/62

All: 48.313 ± 0.516 χ^2/NDF : 2810.7/120

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.355+/-0.060 χ^2/NDF : 237102.9/34

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -123.166+/-0.057 χ^2/NDF : 495532.7/37

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

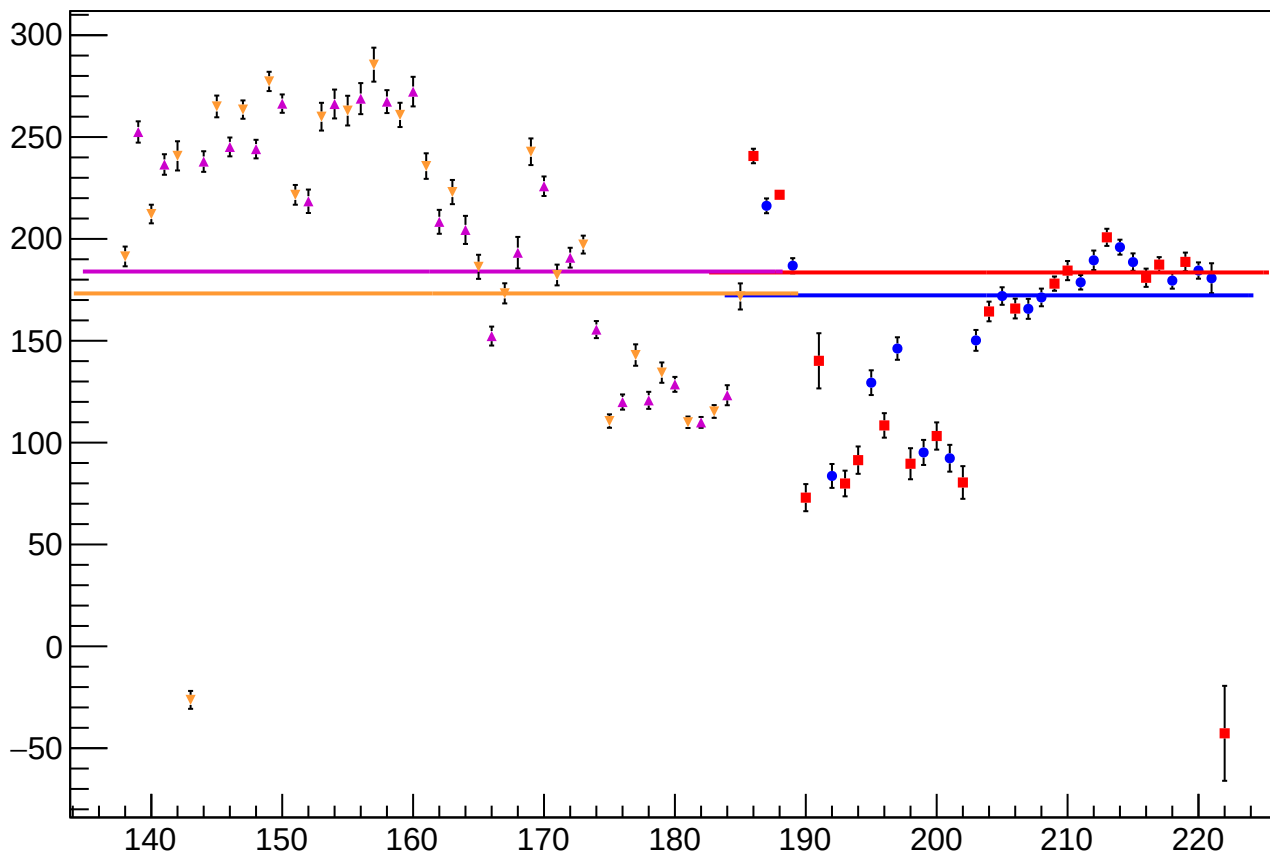
Right: -127.049+/-0.041 χ^2/NDF : 742426.0/72

In: -139.141+/-0.037 χ^2/NDF : 522271.0/57

Out: -132.288+/-0.035 χ^2/NDF : 1102986.5/62

All: -135.603+/-0.025 χ^2/NDF : 1643402.7/12

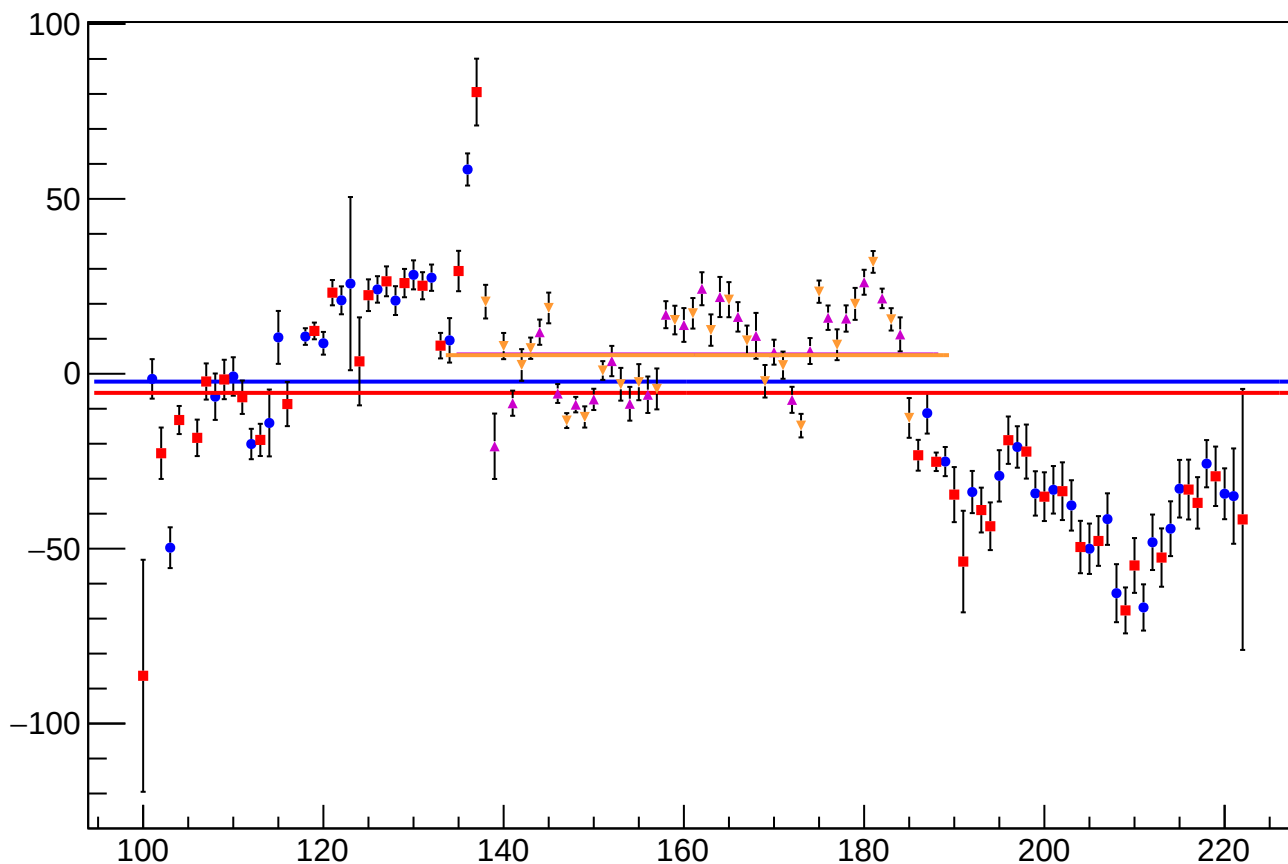
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 172.285+/-1.072 χ^2/NDF : 873.7/17
 Left Out: 173.229+/-0.966 χ^2/NDF : 5846.0/24
 Right Out: 183.530+/-1.017 χ^2/NDF : 2183.3/18
 Left In: 183.984+/-0.991 χ^2/NDF : 3613.7/22

Left: 178.467+/-0.692 χ^2/NDF : 9520.1/47
 Right: 178.205+/-0.738 χ^2/NDF : 3114.9/36
 In: 178.596+/-0.728 χ^2/NDF : 4551.6/40
 Out: 178.112+/-0.700 χ^2/NDF : 8083.2/43
 All: 178.344+/-0.505 χ^2/NDF : 12635.0/84

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.243 ± 0.891 χ^2/NDF : 1026.5/34

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.462 ± 0.851 χ^2/NDF : 959.4/37

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

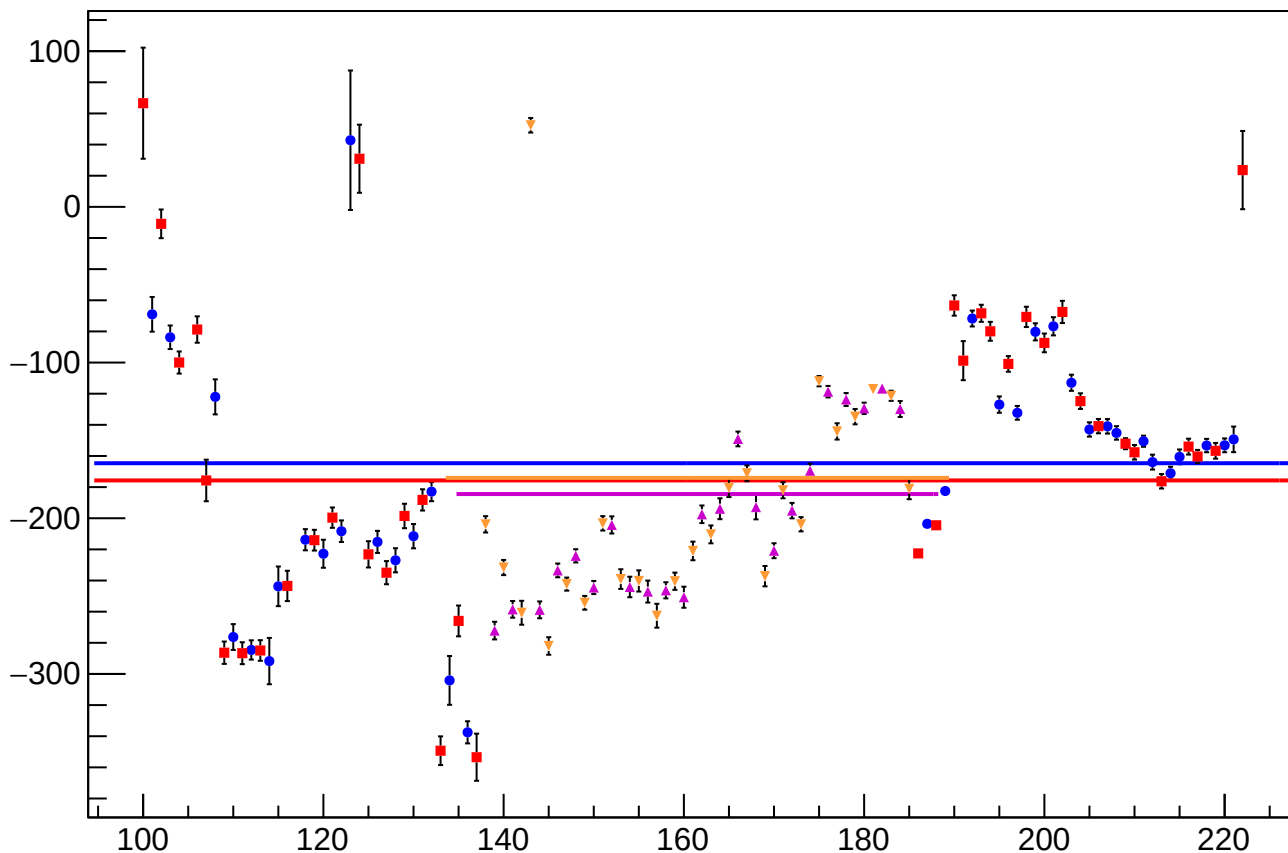
Right: -3.927 ± 0.615 χ^2/NDF : 1992.7/72

In: 2.152 ± 0.587 χ^2/NDF : 1325.8/57

Out: 0.624 ± 0.561 χ^2/NDF : 1395.6/62

All: 1.353 ± 0.406 χ^2/NDF : 2724.9/120

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -164.657 ± 0.923 χ^2/NDF : 3162.1/34

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -175.697 ± 0.836 χ^2/NDF : 5097.6/37

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

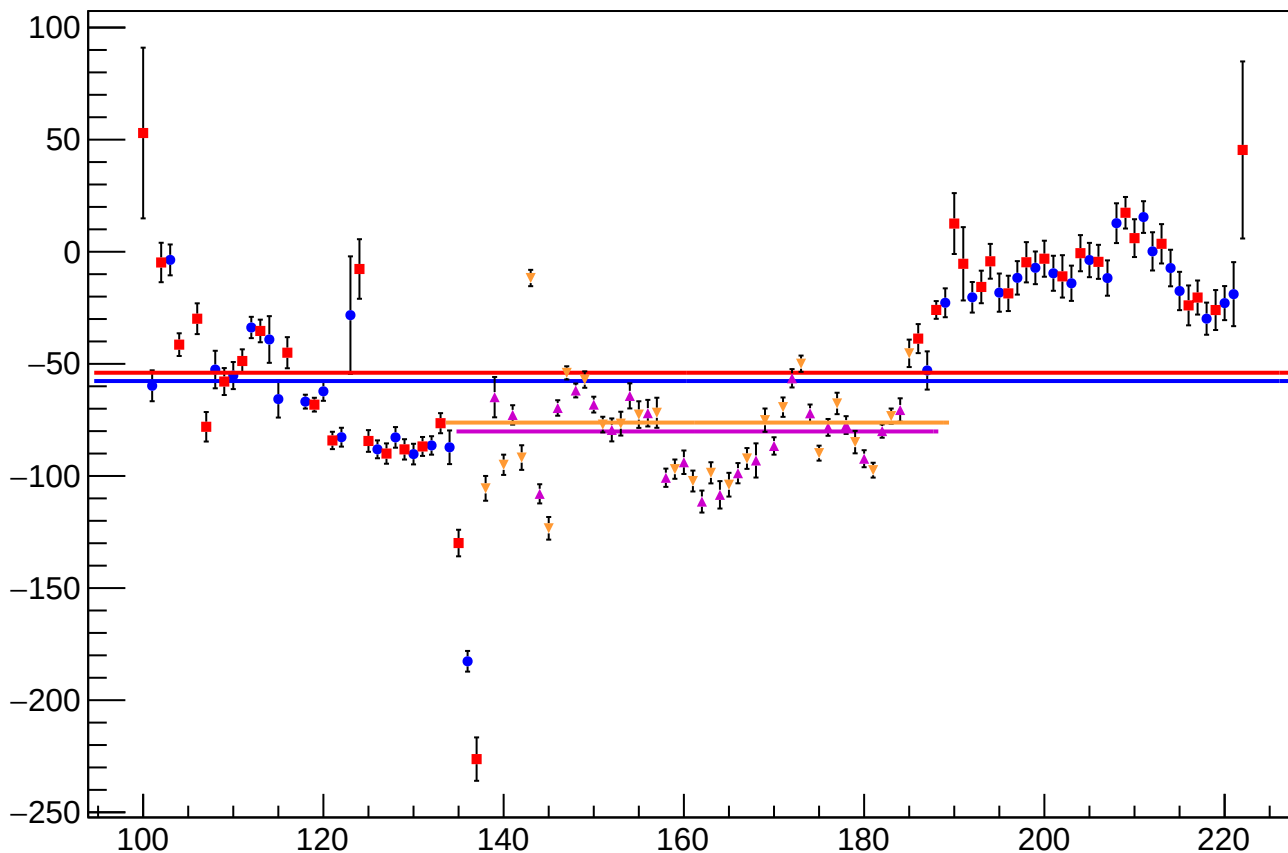
Right: -170.723 ± 0.620 χ^2/NDF : 8338.3/72

In: -173.859 ± 0.675 χ^2/NDF : 6427.5/57

Out: -175.001 ± 0.633 χ^2/NDF : 10542.5/62

All: -174.466 ± 0.462 χ^2/NDF : 16971.5/120

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.663 ± 1.029 $\chi^2/\text{NDF}: 1714.1/34$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -53.956 ± 1.002 $\chi^2/\text{NDF}: 1507.0/37$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

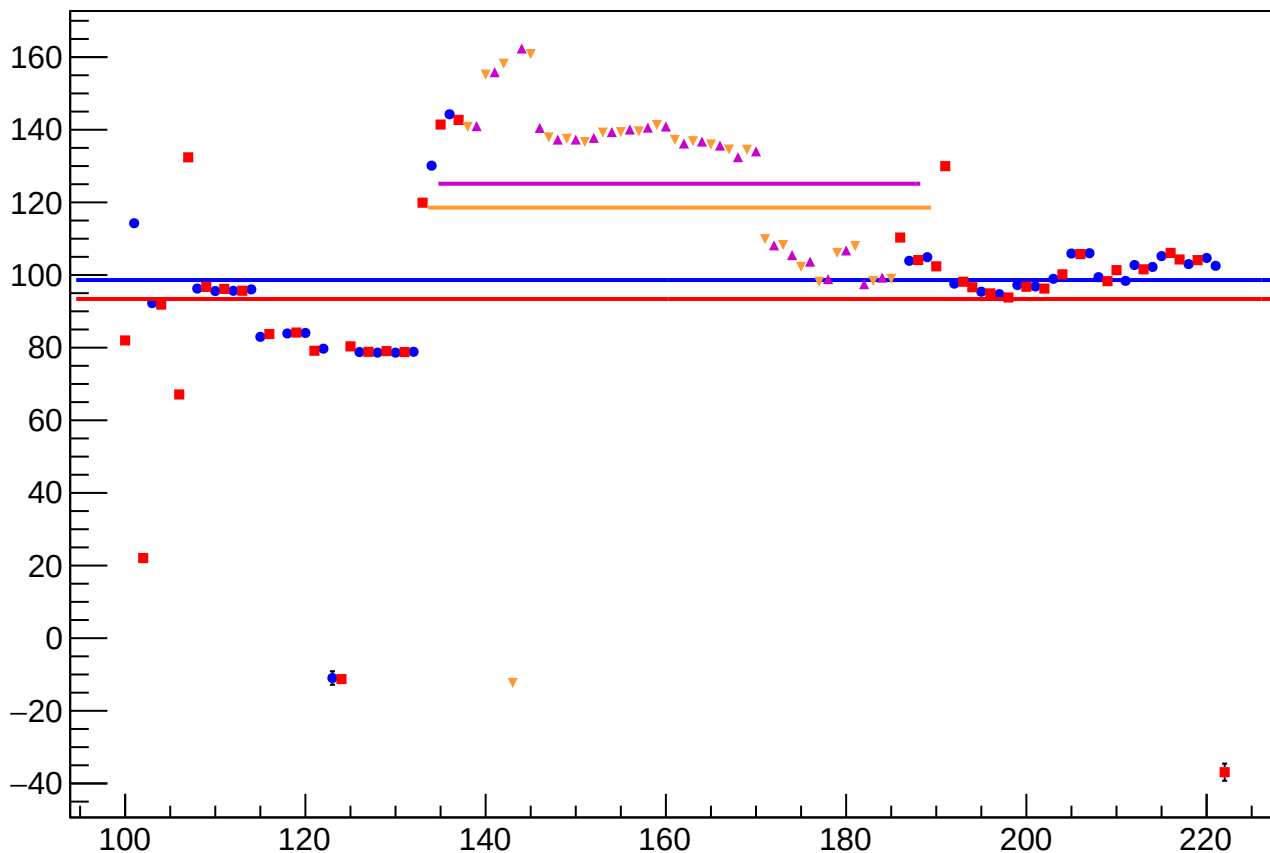
Right: -55.760 ± 0.718 $\chi^2/\text{NDF}: 3227.7/72$

In: -70.543 ± 0.673 $\chi^2/\text{NDF}: 2270.6/57$

Out: -66.791 ± 0.651 $\chi^2/\text{NDF}: 2591.9/62$

All: -68.607 ± 0.468 $\chi^2/\text{NDF}: 4878.6/120$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.615+/-0.052 χ^2/NDF : 96846.0/34

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 93.395+/-0.049 χ^2/NDF : 248982.4/37

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

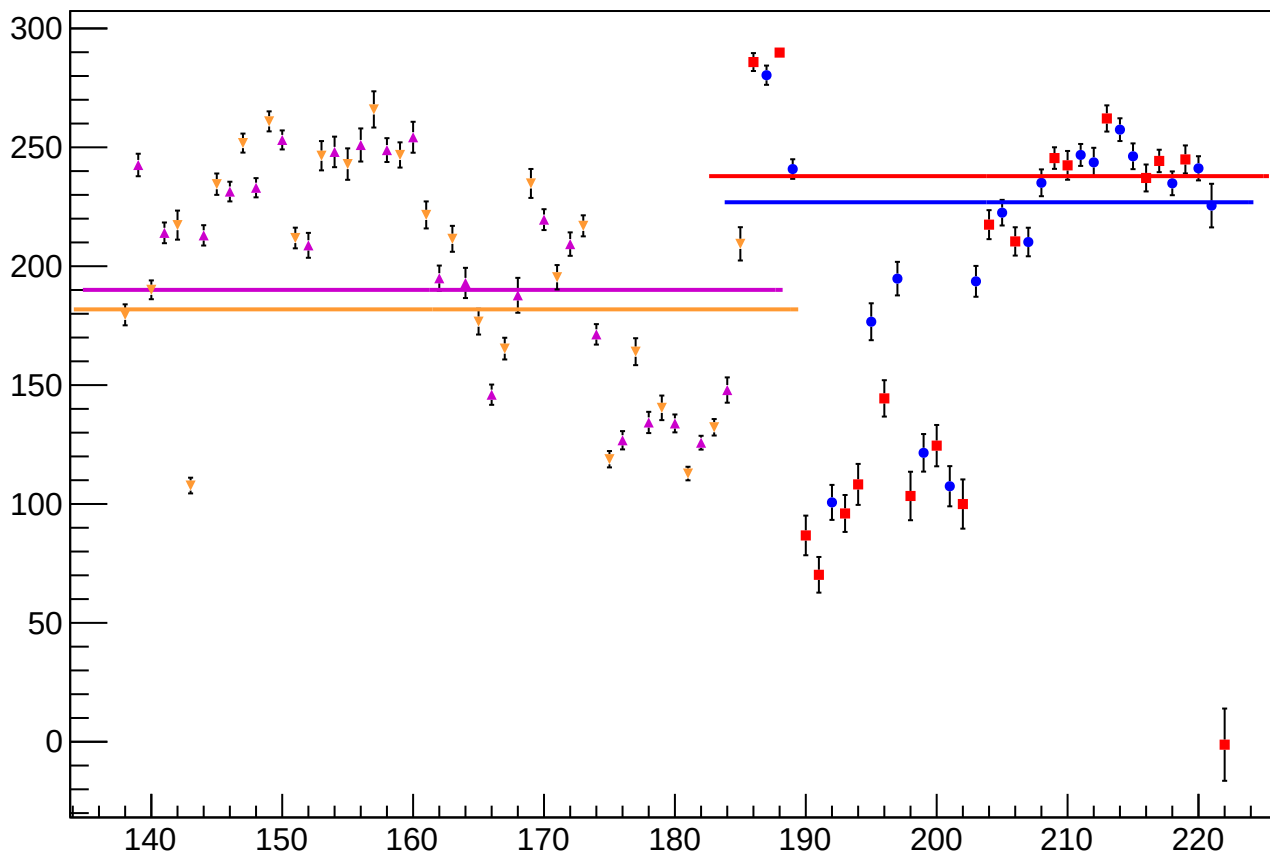
Right: 95.872+/-0.036 χ^2/NDF : 351115.2/72

In: 114.895+/-0.032 χ^2/NDF : 477200.4/57

Out: 108.465+/-0.031 χ^2/NDF : 1132791.2/62

All: 111.578+/-0.023 χ^2/NDF : 1630381.6/120

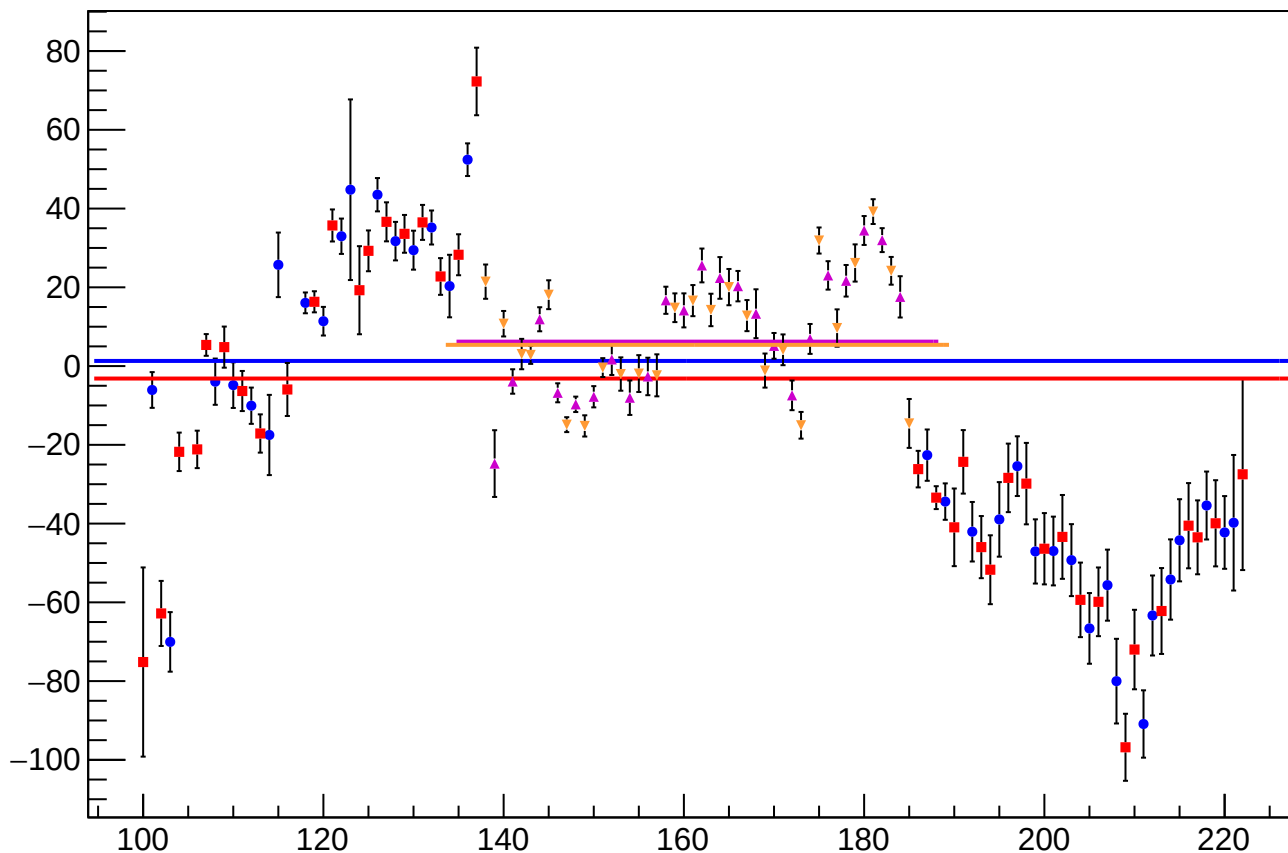
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 226.899 ± 1.331 $\chi^2/\text{NDF}: 1047.0/17$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 237.883 ± 1.205 $\chi^2/\text{NDF}: 3158.7/18$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 232.935 ± 0.893 $\chi^2/\text{NDF}: 4243.2/36$
 In: 202.537 ± 0.775 $\chi^2/\text{NDF}: 3992.3/40$
 Out: 202.301 ± 0.728 $\chi^2/\text{NDF}: 7835.7/43$
 All: 202.411 ± 0.530 $\chi^2/\text{NDF}: 11828.1/84$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.305 ± 1.003 $\chi^2/\text{NDF}: 1232.6/34$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -3.166 ± 0.913 $\chi^2/\text{NDF}: 1229.4/37$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

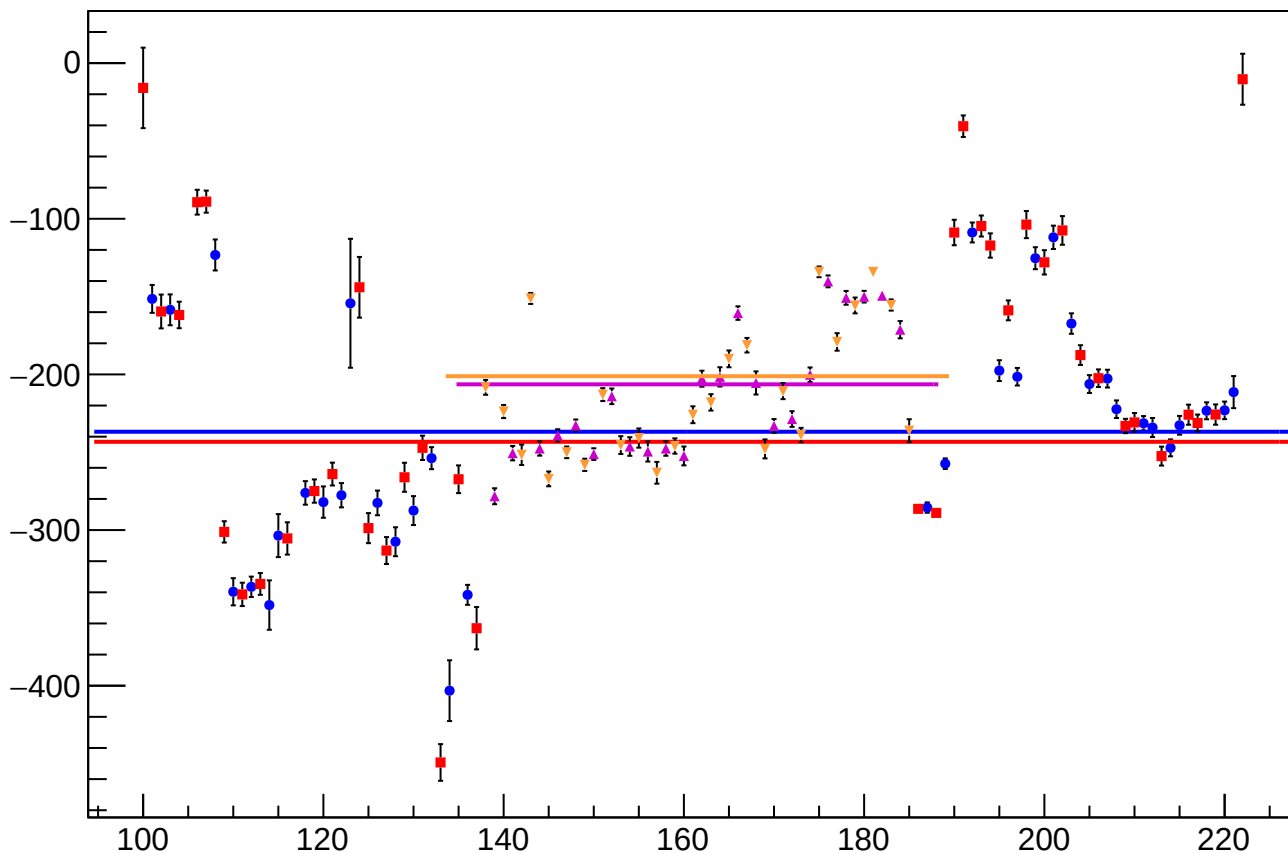
Right: -1.140 ± 0.675 $\chi^2/\text{NDF}: 2472.9/72$

In: 4.505 ± 0.591 $\chi^2/\text{NDF}: 1655.7/57$

Out: 2.294 ± 0.549 $\chi^2/\text{NDF}: 1812.0/62$

All: 3.319 ± 0.402 $\chi^2/\text{NDF}: 3475.2/120$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -236.832+/-1.101 χ^2 /NDF: 2726.8/34

Left Out: -201.144+/-0.918 χ^2 /NDF:2488.8/24

Right Out: -243.289+/-0.953 χ^2 /NDF: 6062.8/37

Left In: -206.379+/-0.950 χ^2 /NDF:2111.6/22

Left: -203.672+/-0.660 χ^2 /NDF: 4616.1/47

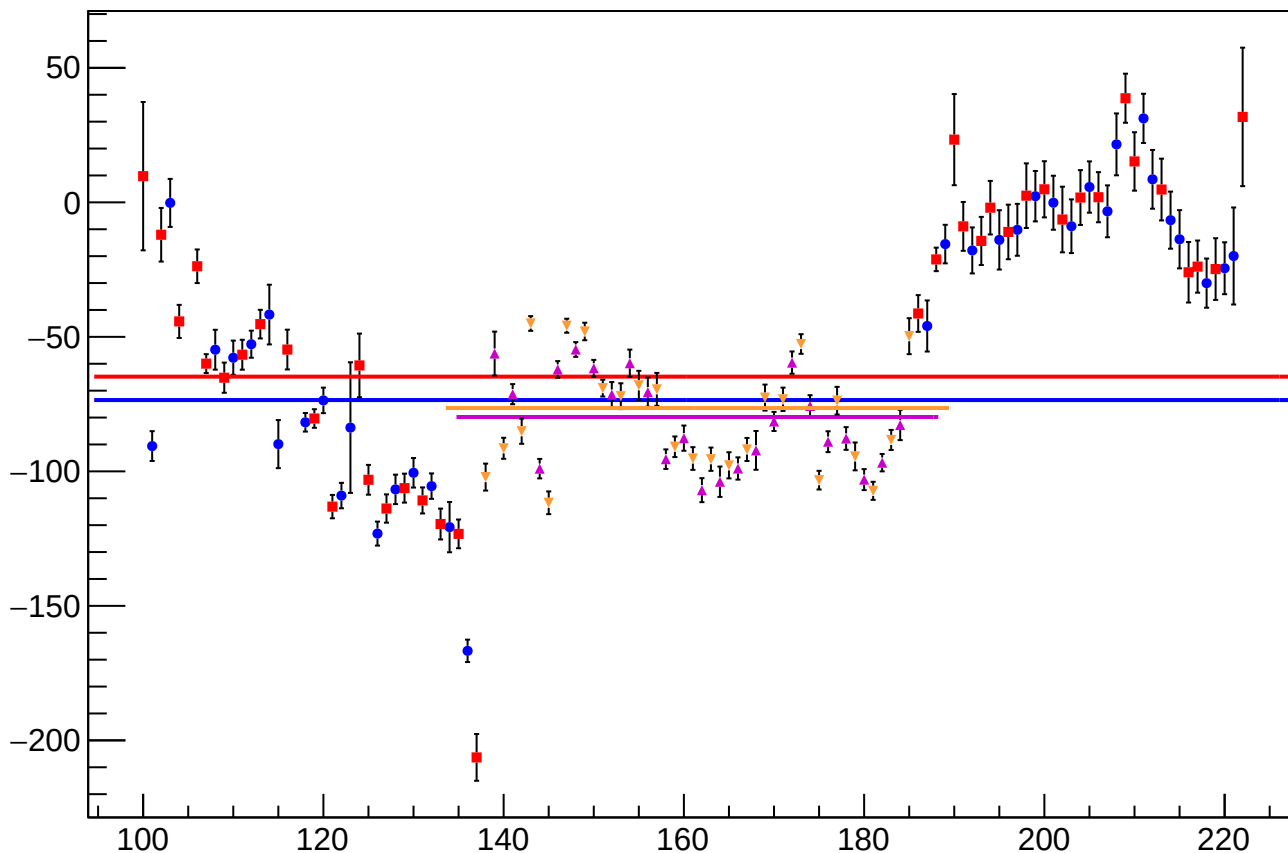
Right: -240.522+/-0.721 χ^2 /NDF: 8809.3/72

In: -219.374+/-0.719 χ^2 /NDF:5277.3/57

Out: -221.421+/-0.661 χ^2 /NDF:9566.0/62

All: -220.483+/-0.487 χ^2 /NDF: 14847.7/120

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.492 ± 1.161 $\chi^2/\text{NDF}: 1792.0/34$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -64.785 ± 1.083 $\chi^2/\text{NDF}: 1758.1/37$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

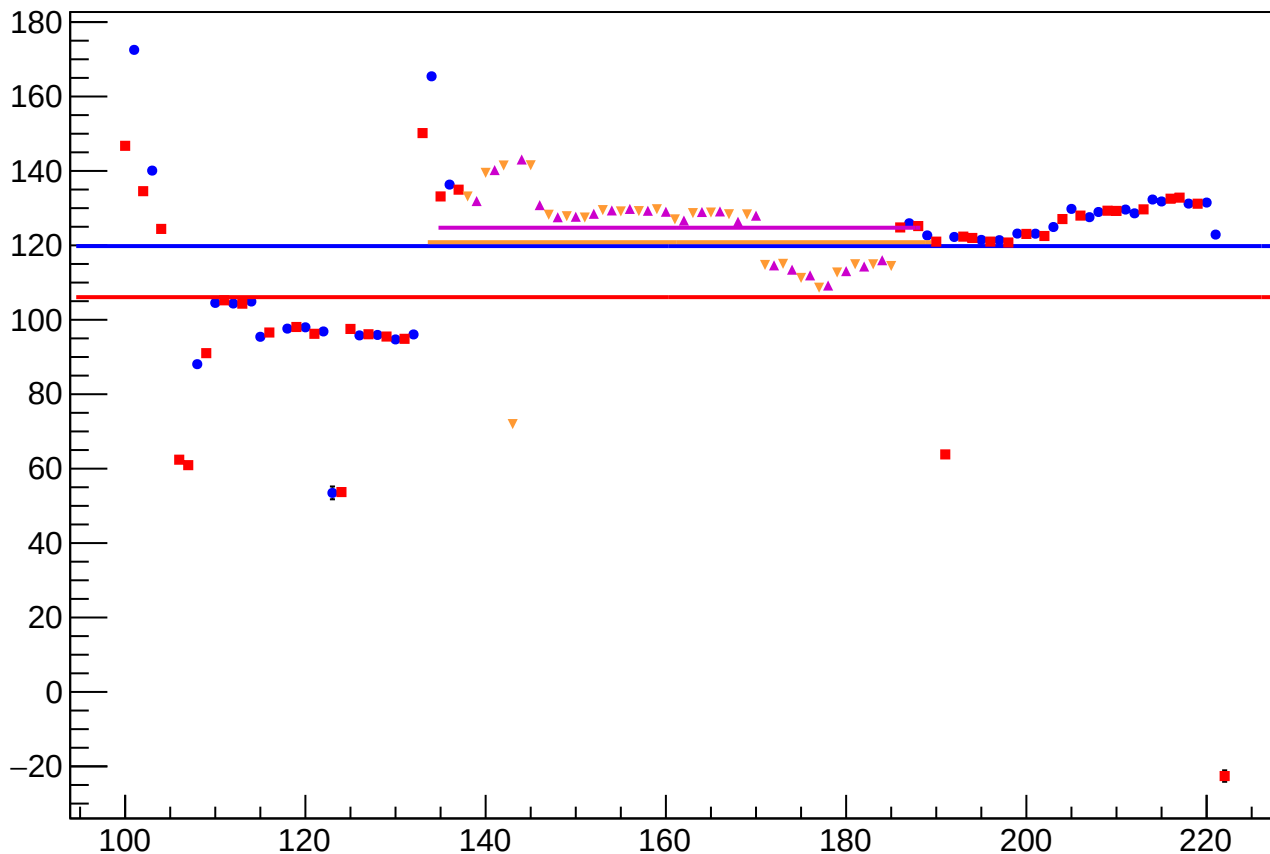
Right: -68.835 ± 0.792 $\chi^2/\text{NDF}: 3580.1/72$

In: -77.629 ± 0.680 $\chi^2/\text{NDF}: 2223.6/57$

Out: -72.361 ± 0.642 $\chi^2/\text{NDF}: 2614.8/62$

All: -74.841 ± 0.467 $\chi^2/\text{NDF}: 4870.1/120$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.806 $\pm$ 0.060 χ^2 /NDF: 112791.2/34

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 106.084 $\pm$ 0.053 χ^2 /NDF: 262285.9/37

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

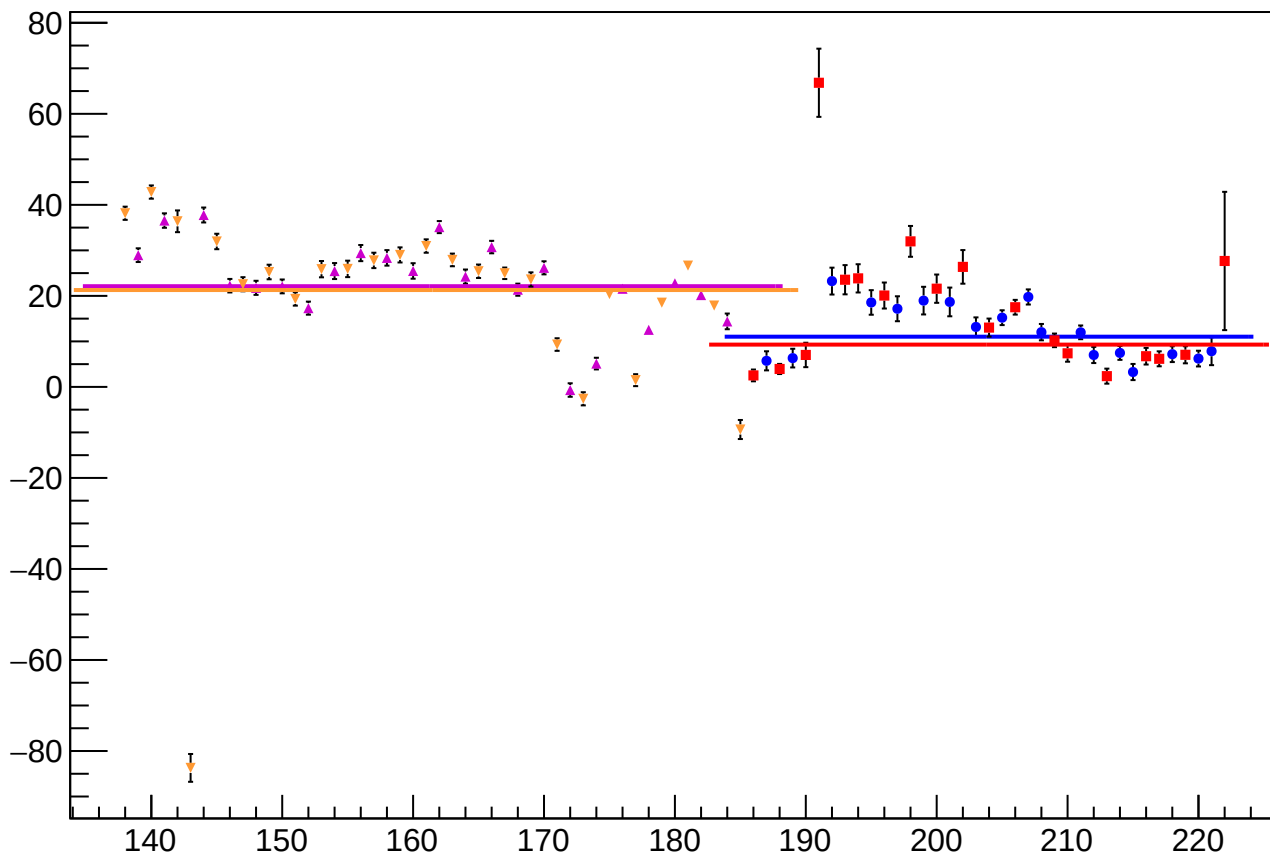
Right: 112.159 $\pm$ 0.040 χ^2 /NDF: 404279.2/72

In: 123.258 $\pm$ 0.033 χ^2 /NDF:168828.1/57

Out: 115.884 $\pm$ 0.031 χ^2 /NDF:495752.5/62

All: 119.358 $\pm$ 0.023 χ^2 /NDF: 691249.0/120

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.034 $\pm$ 0.466 χ^2 /NDF: 133.5/17

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.292 $\pm$ 0.454 χ^2 /NDF: 304.7/18

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

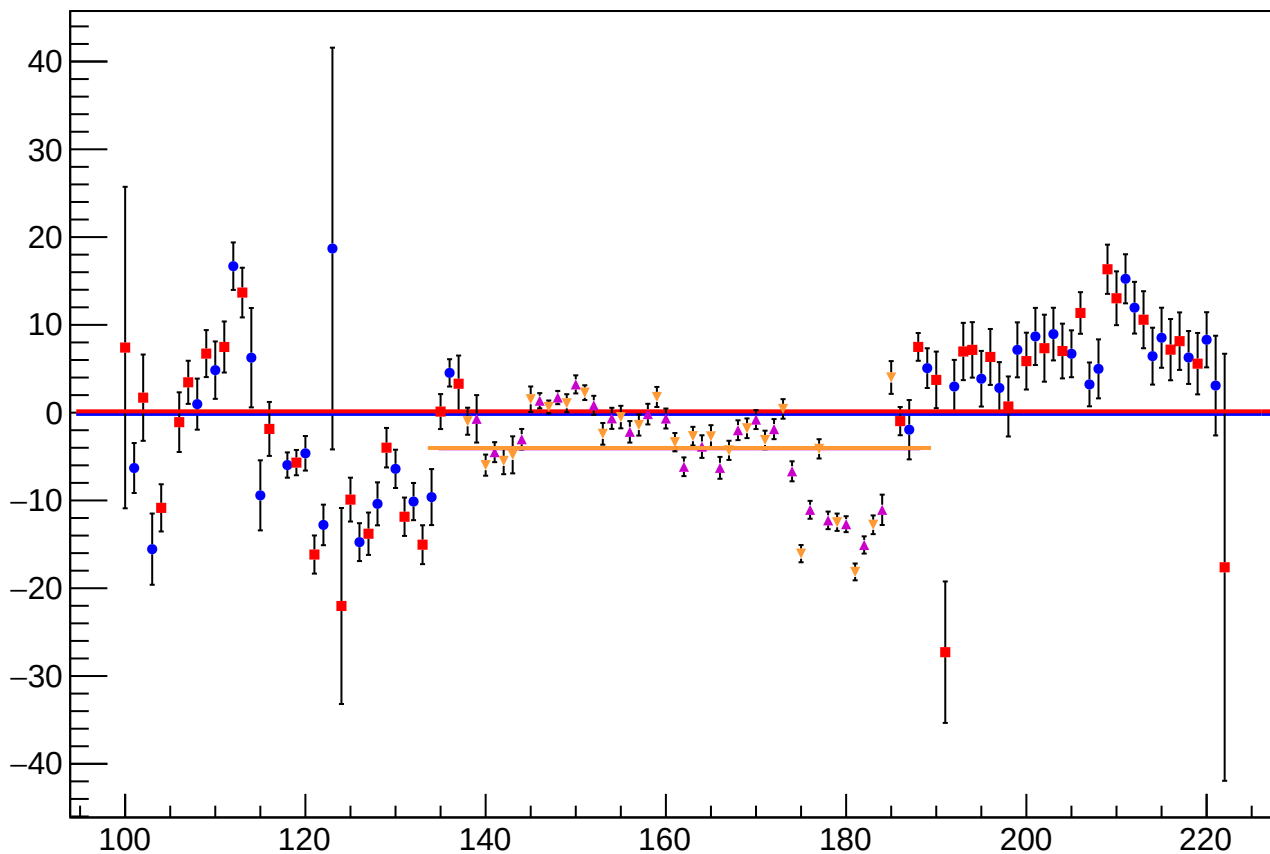
Right: 10.141 $\pm$ 0.325 χ^2 /NDF: 445.4/36

In: 19.097 $\pm$ 0.243 χ^2 /NDF:1446.1/40

Out: 17.939 $\pm$ 0.240 χ^2 /NDF:3407.7/43

All: 18.509 $\pm$ 0.171 χ^2 /NDF: 4865.3/84

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.141 $\pm$ 0.454 χ^2/NDF : 342.6/34

Left Out: -4.022 $\pm$ 0.223 χ^2/NDF : 734.1/24

Right Out: 0.151 $\pm$ 0.437 χ^2/NDF : 418.7/37

Left In: -4.059 $\pm$ 0.228 χ^2/NDF : 577.2/22

Left: -4.040 $\pm$ 0.159 χ^2/NDF : 1311.4/47

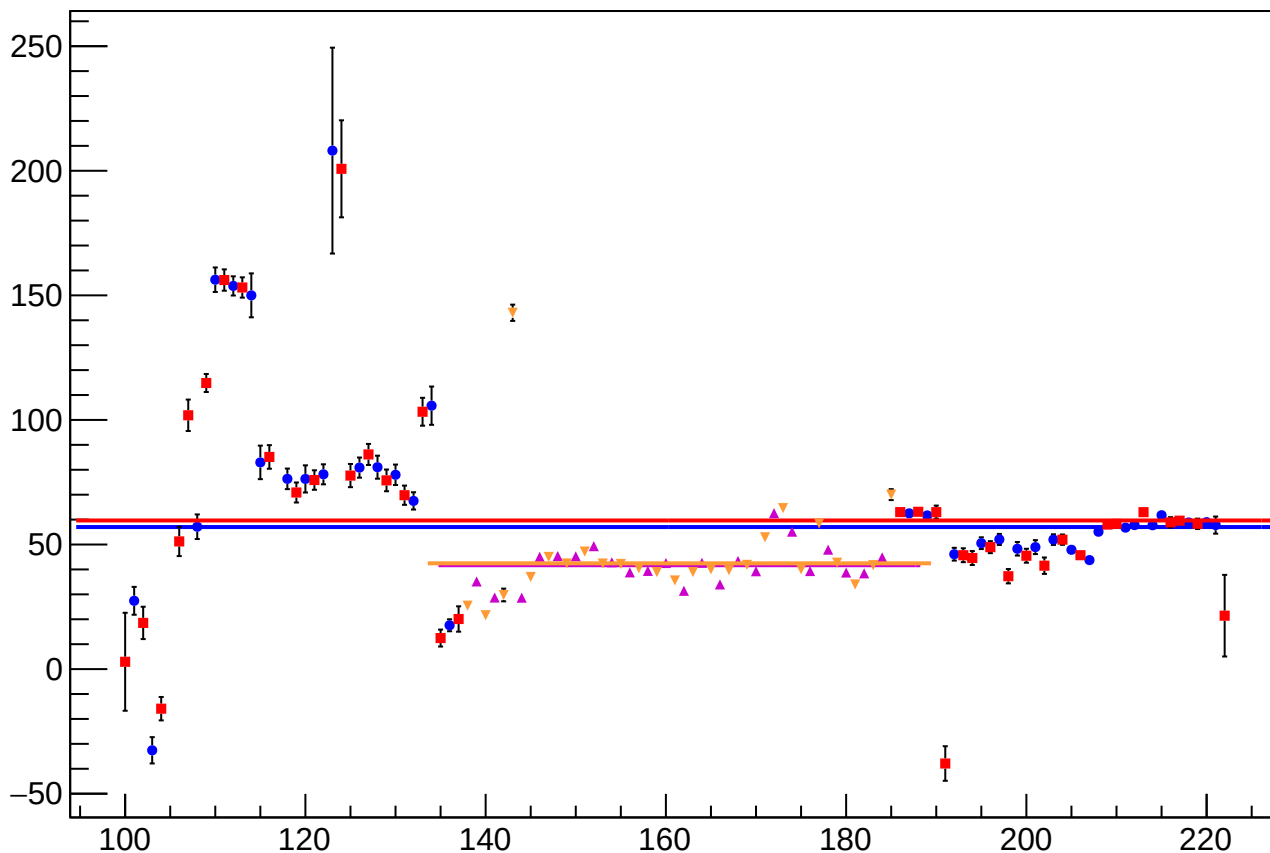
Right: 0.010 $\pm$ 0.315 χ^2/NDF : 761.5/72

In: -3.269 $\pm$ 0.204 χ^2/NDF : 979.3/57

Out: -3.160 $\pm$ 0.199 χ^2/NDF : 1225.0/62

All: -3.213 $\pm$ 0.142 χ^2/NDF : 2204.5/120

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 57.013 $\pm$ 0.424 χ^2 /NDF: 2144.6/34

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.652 $\pm$ 0.395 χ^2 /NDF: 2638.9/37

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF:630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

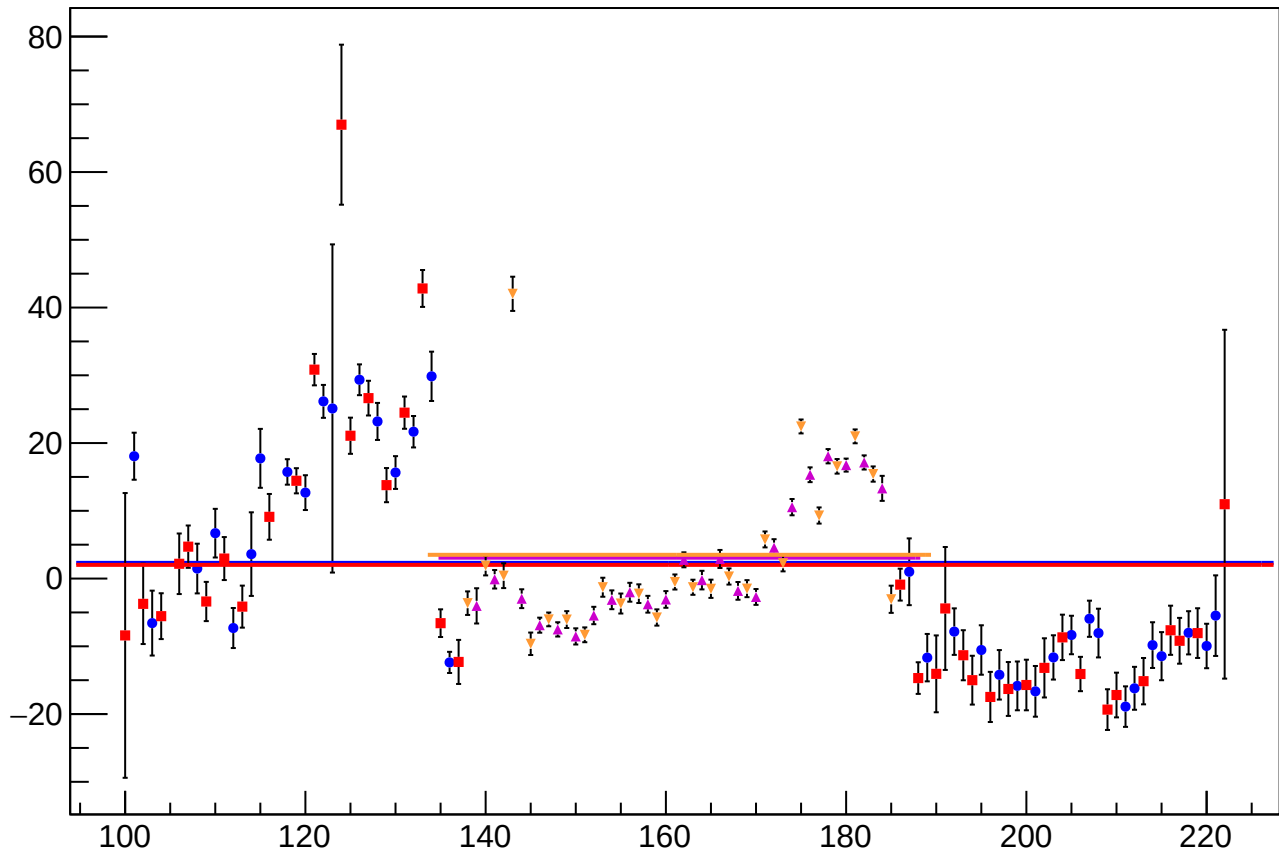
Right: 58.427 $\pm$ 0.289 χ^2 /NDF: 4804.2/72

In: 46.438 $\pm$ 0.236 χ^2 /NDF:3674.8/57

Out: 48.256 $\pm$ 0.229 χ^2 /NDF:5910.7/62

All: 47.372 $\pm$ 0.165 χ^2 /NDF: 9616.0/120

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.316+/-0.514 χ^2/NDF : 956.1/34

Left Out: 3.505+/-0.252 χ^2/NDF :1691.3/24

Right Out: 2.023+/-0.510 χ^2/NDF : 1130.6/37

Left In: 3.081+/-0.257 χ^2/NDF :1265.7/22

Left: 3.297+/-0.180 χ^2/NDF : 2958.4/47

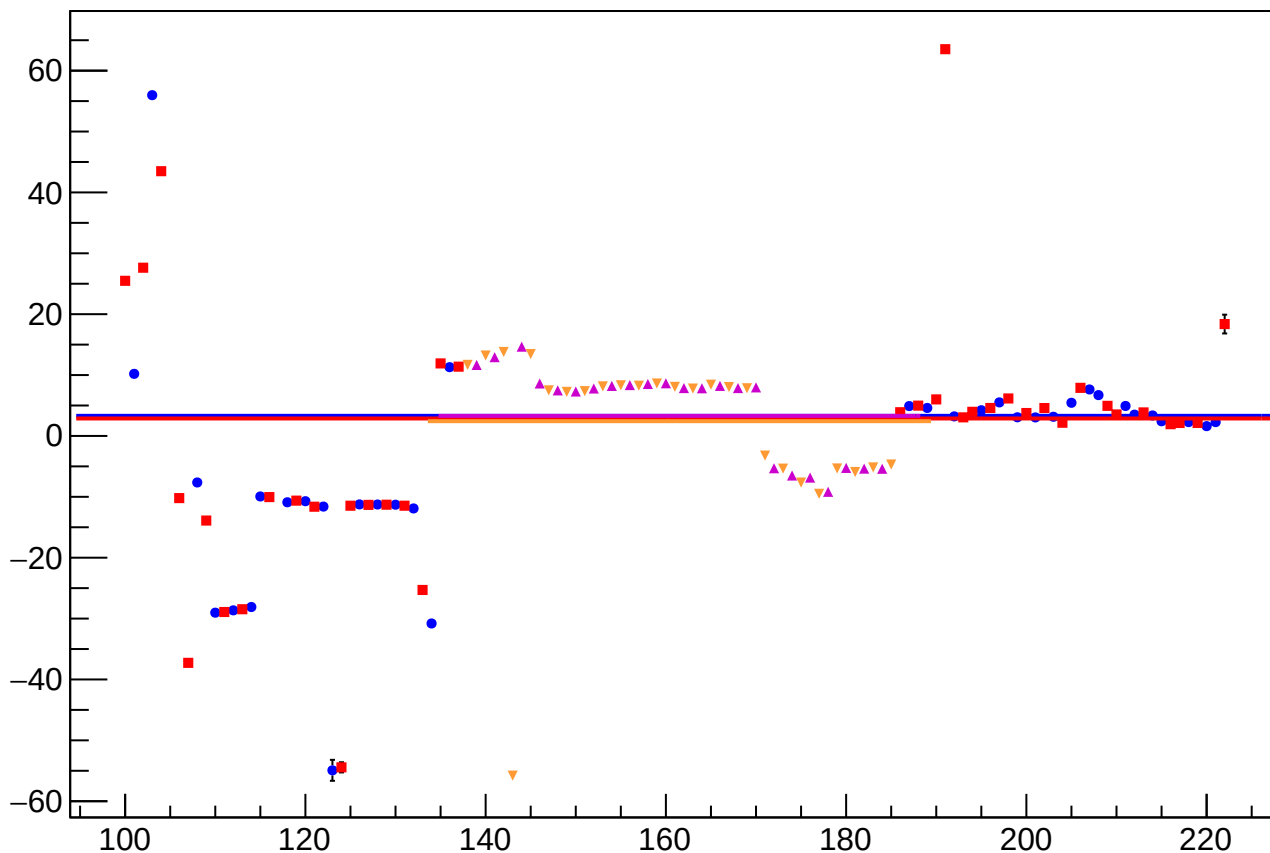
Right: 2.168+/-0.362 χ^2/NDF : 2086.8/72

In: 2.928+/-0.230 χ^2/NDF :2223.6/57

Out: 3.213+/-0.226 χ^2/NDF :2828.7/62

All: 3.073+/-0.161 χ^2/NDF : 5053.0/120

reg_asym_atl_dd_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.300 $\pm$ 0.024 χ^2 /NDF: 362537.8/34

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.868 $\pm$ 0.024 χ^2 /NDF: 434679.6/37

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

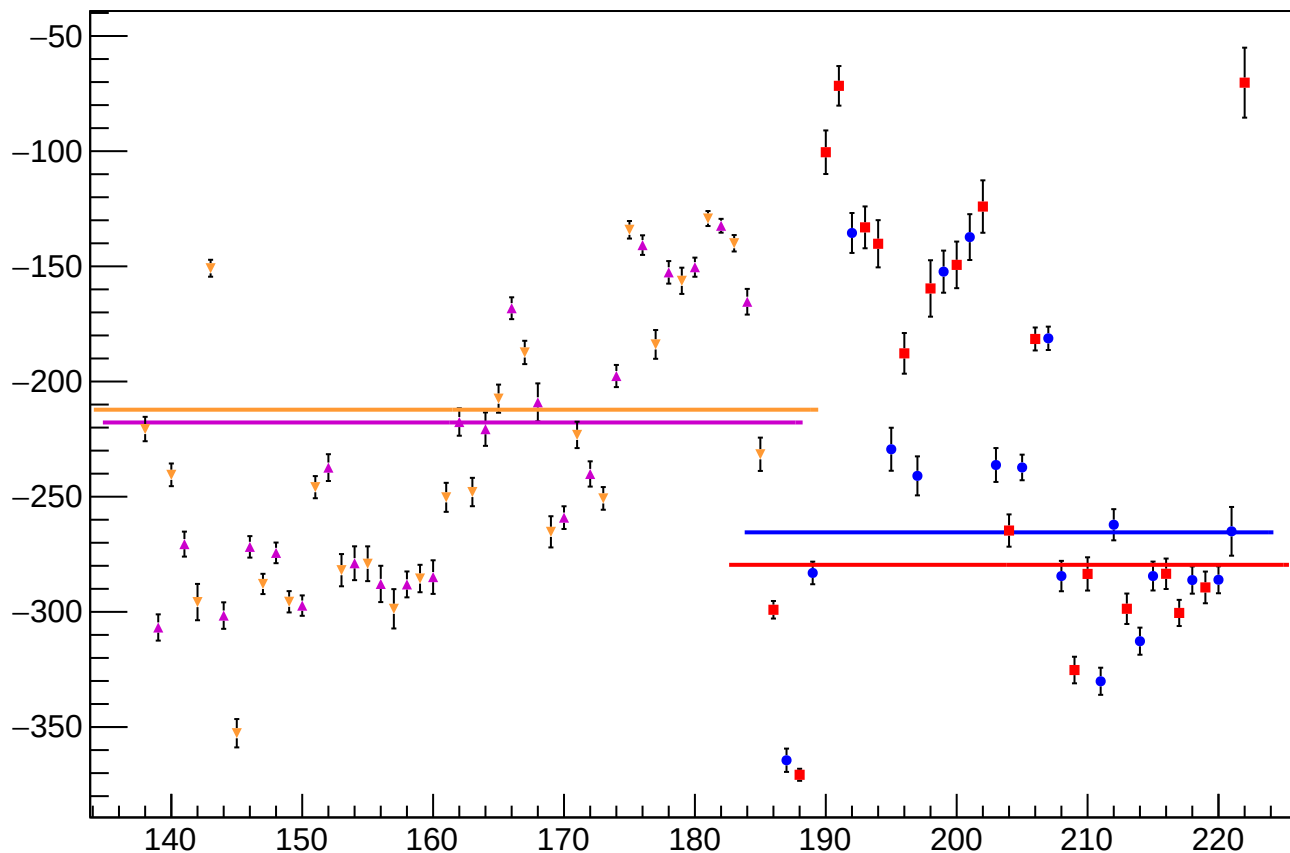
Right: 3.083 $\pm$ 0.017 χ^2 /NDF: 797375.4/72

In: 3.294 $\pm$ 0.011 χ^2 /NDF: 766861.7/57

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051334.4/62

All: 2.898 $\pm$ 0.007 χ^2 /NDF: 1821015.9/120

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -265.475 $\pm$ 1.532 χ^2 /NDF: 1507.0/17

Left Out: -212.231 $\pm$ 1.029 χ^2 /NDF:3875.4/24

Right Out: -279.575 $\pm$ 1.399 χ^2 /NDF: 3857.9/18

Left In: -217.779 $\pm$ 1.067 χ^2 /NDF:3448.9/22

Left: -214.906 $\pm$ 0.741 χ^2 /NDF: 7338.3/47

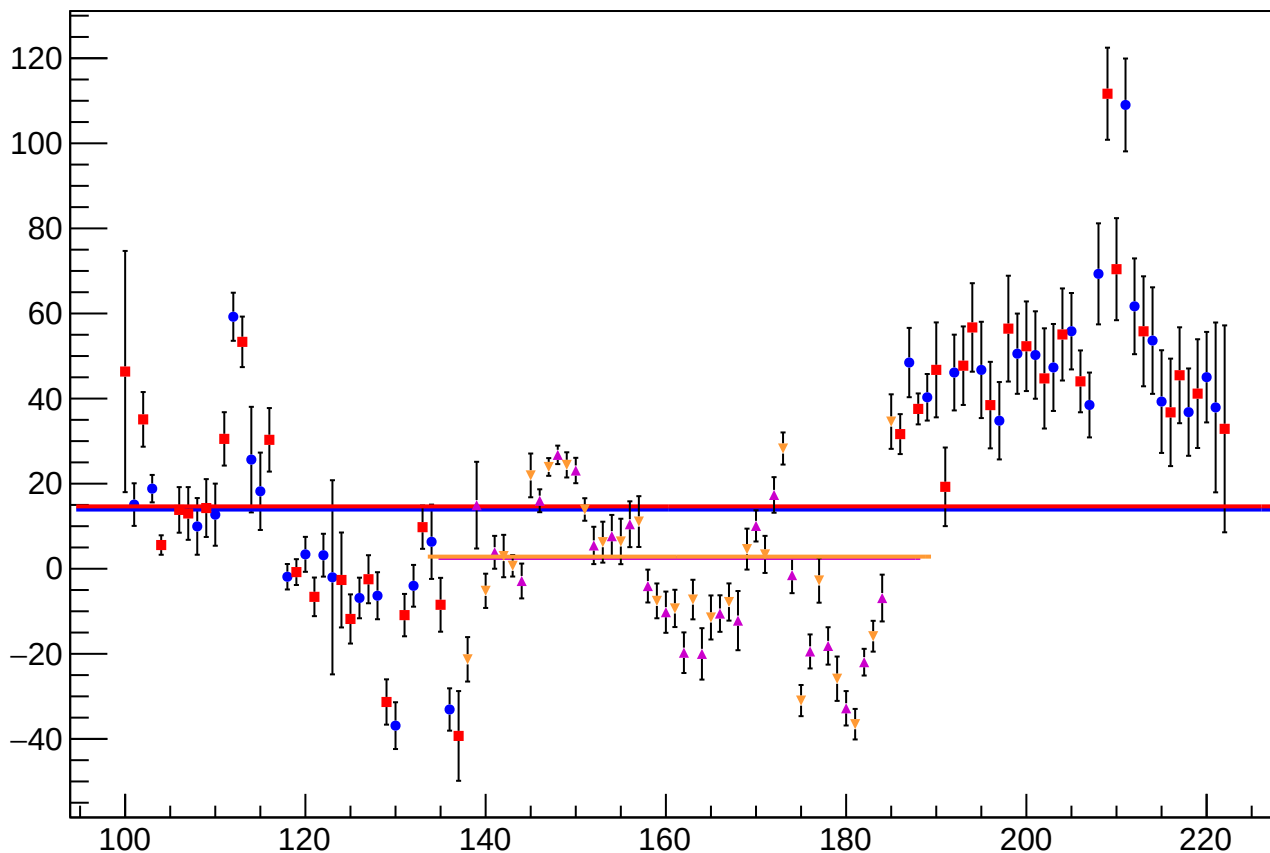
Right: -273.165 $\pm$ 1.033 χ^2 /NDF: 5411.1/36

In: -233.349 $\pm$ 0.876 χ^2 /NDF:5608.5/40

Out: -235.884 $\pm$ 0.829 χ^2 /NDF:9236.4/43

All: -234.685 $\pm$ 0.602 χ^2 /NDF: 14849.3/84

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.911 $\pm$ 1.089 χ^2 /NDF: 612.3/34

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF: 582.1/24

Right Out: 14.662 $\pm$ 0.995 χ^2 /NDF: 586.5/37

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF: 473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

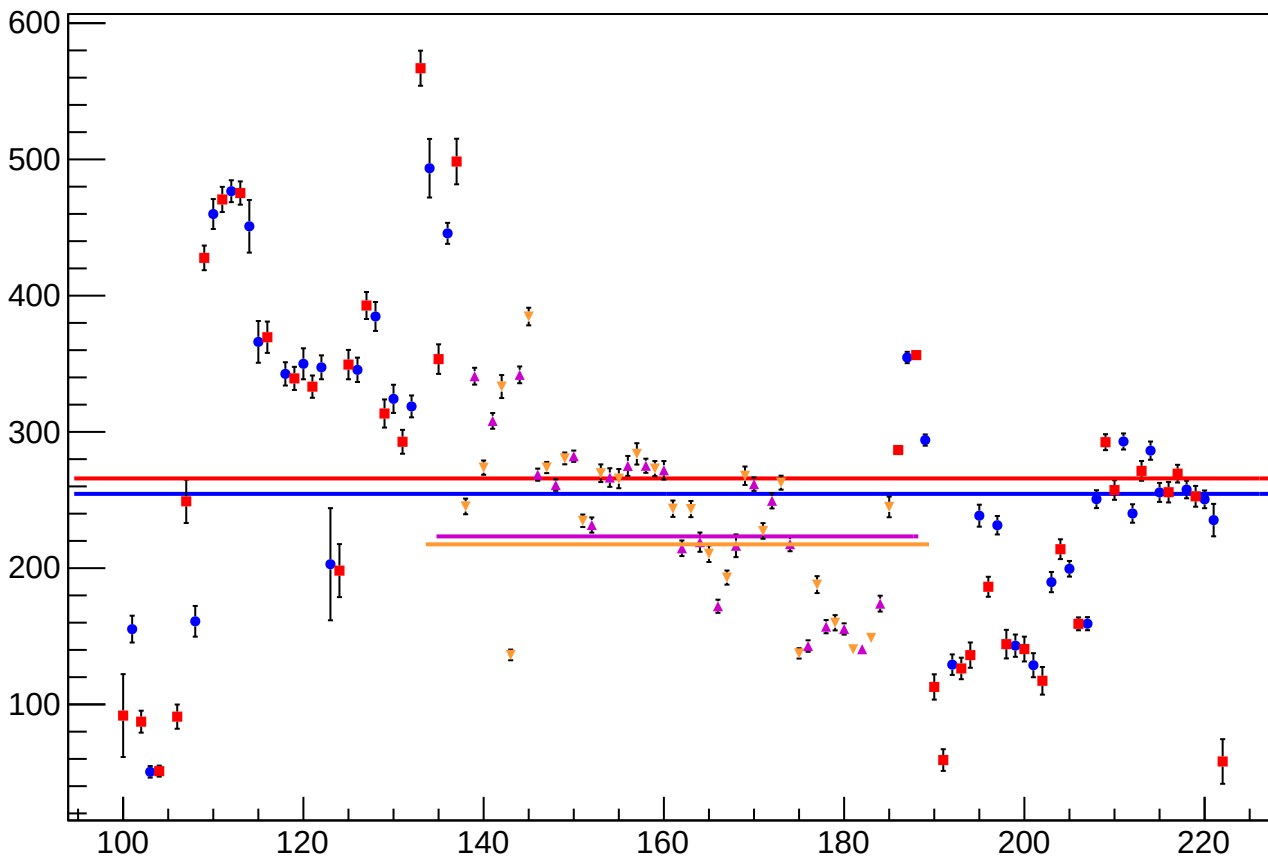
Right: 14.320 $\pm$ 0.735 χ^2 /NDF: 1199.1/72

In: 6.668 $\pm$ 0.656 χ^2 /NDF: 1155.3/57

Out: 7.306 $\pm$ 0.611 χ^2 /NDF: 1256.4/62

All: 7.010 $\pm$ 0.447 χ^2 /NDF: 2412.2/120

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.523 $\pm$ 1.224 χ^2 /NDF: 7144.1/34

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 265.852 $\pm$ 1.076 χ^2 /NDF: 11219.5/37

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

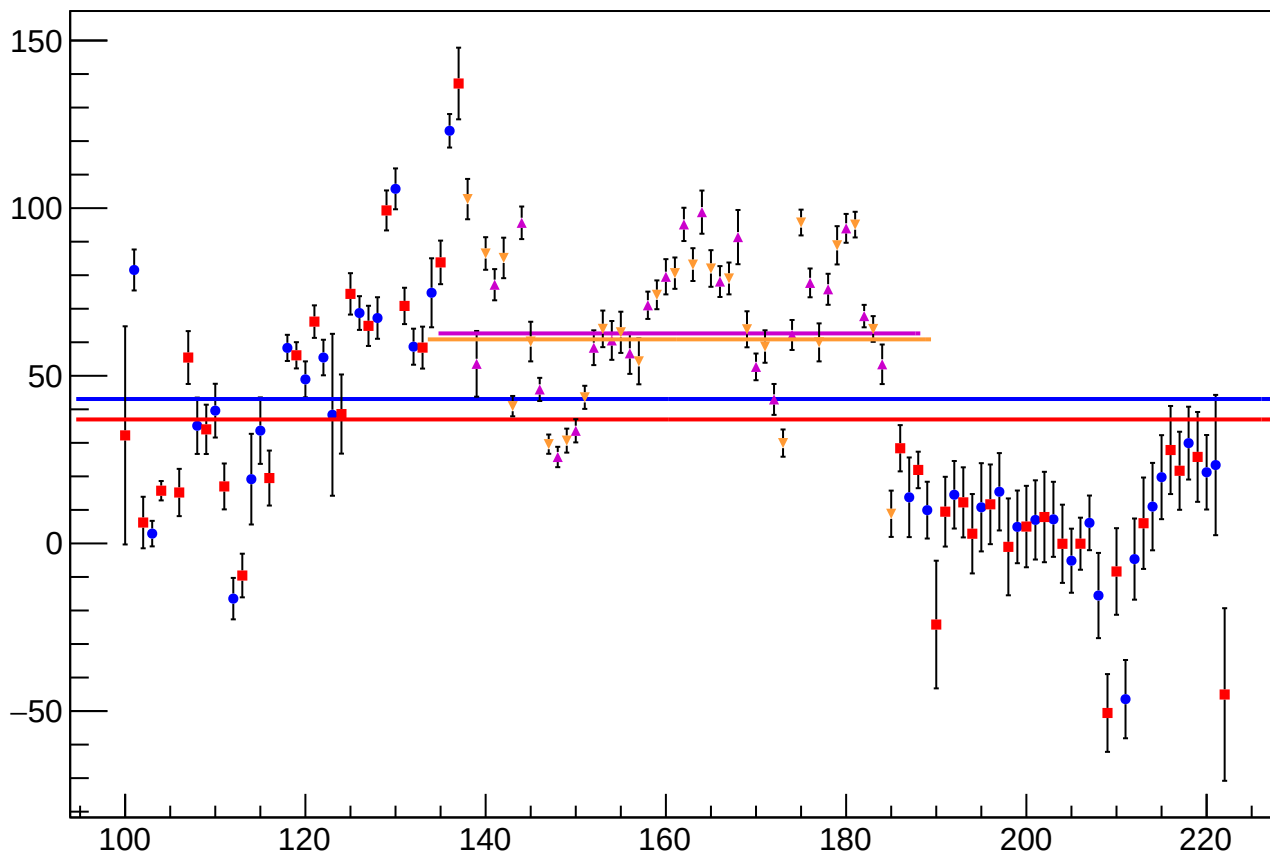
Right: 260.912 $\pm$ 0.808 χ^2 /NDF: 18411.9/72

In: 236.713 $\pm$ 0.802 χ^2 /NDF:10893.1/57

Out: 240.662 $\pm$ 0.745 χ^2 /NDF:16041.0/62

All: 238.833 $\pm$ 0.546 χ^2 /NDF: 26947.1/120

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.075 ± 1.263 $\chi^2/\text{NDF}: 922.5/34$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 36.981 ± 1.185 $\chi^2/\text{NDF}: 752.0/37$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

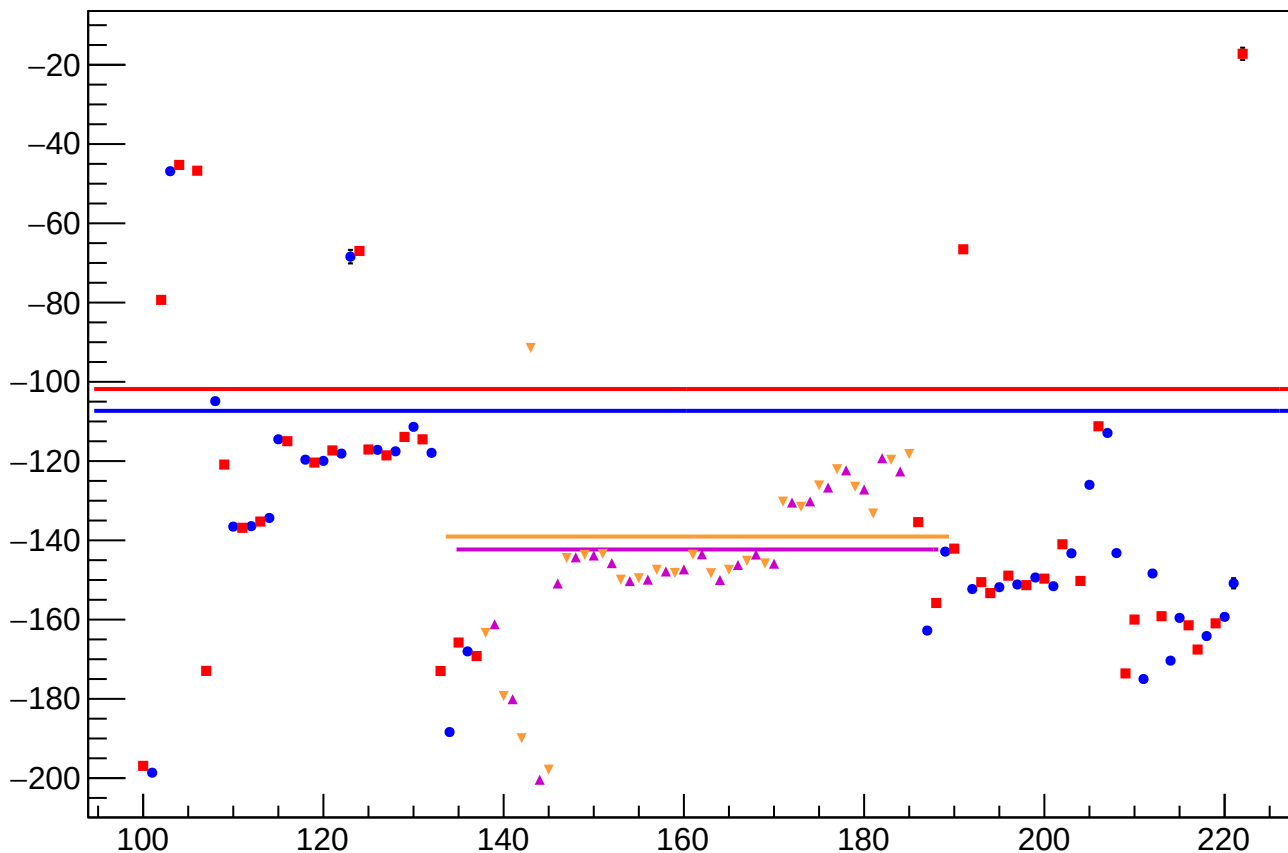
Right: 39.836 ± 0.864 $\chi^2/\text{NDF}: 1686.9/72$

In: 55.639 ± 0.755 $\chi^2/\text{NDF}: 1592.1/57$

Out: 52.172 ± 0.715 $\chi^2/\text{NDF}: 1741.8/62$

All: 53.810 ± 0.519 $\chi^2/\text{NDF}: 3345.0/120$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -107.318+/-0.057 χ^2/NDF : 752759.7/34

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -101.812+/-0.054 χ^2/NDF : 788783.4/37

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

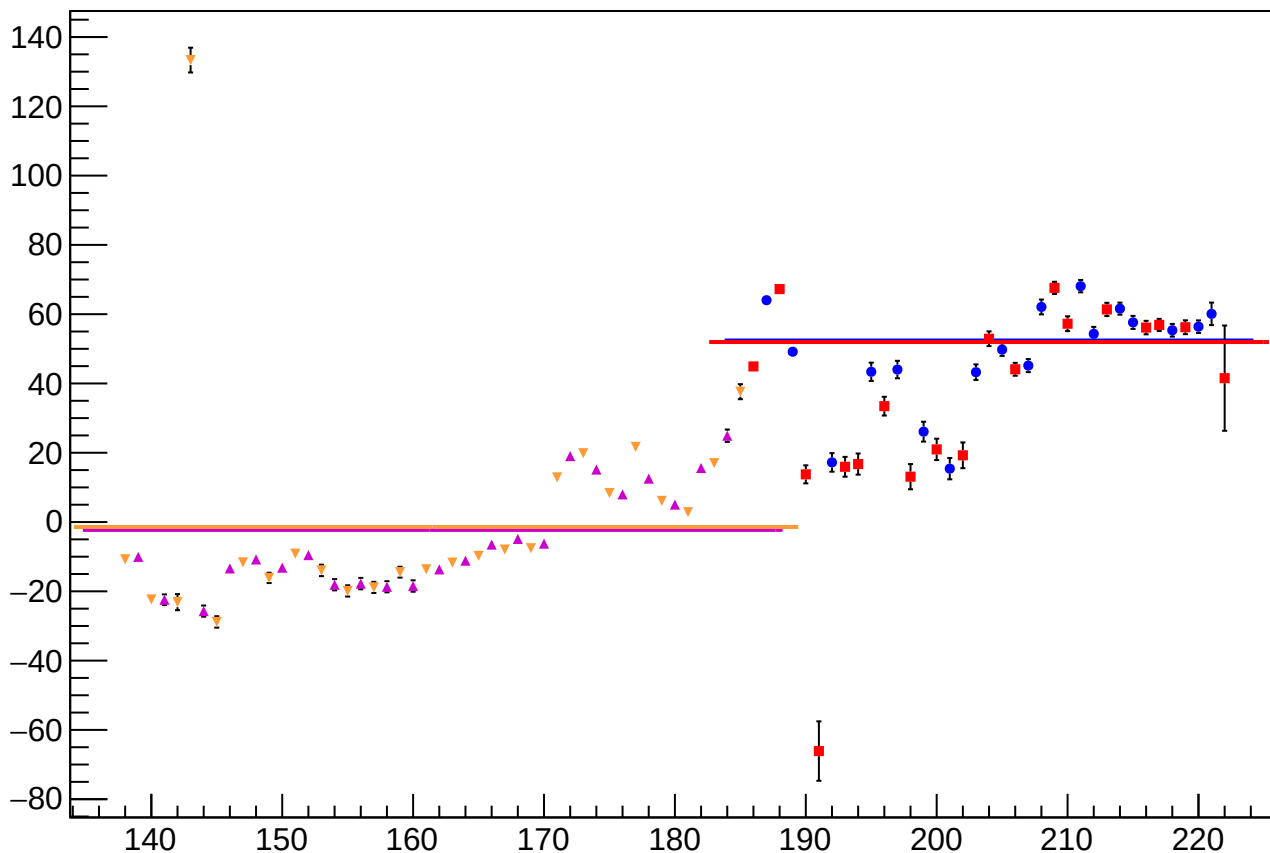
Right: -104.425+/-0.039 χ^2/NDF : 1546481.2/72

In: -129.155+/-0.035 χ^2/NDF : 1132923.1/57

Out: -124.644+/-0.034 χ^2/NDF : 1338527.1/62

All: -126.817+/-0.024 χ^2/NDF : 2480148.2/12

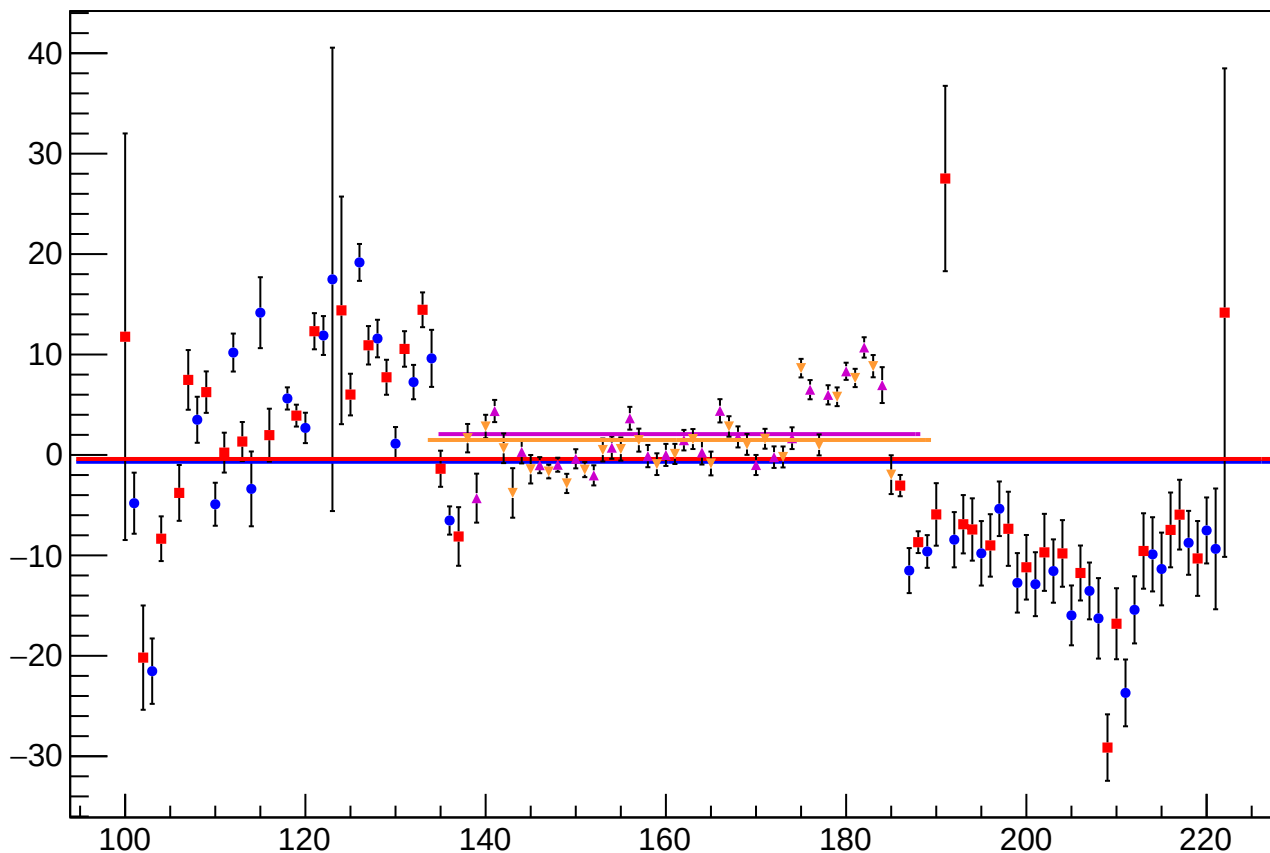
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.401 ± 0.470 χ^2/NDF : 678.5/17
 Left Out: -1.427 ± 0.268 χ^2/NDF : 4339.0/24
 Right Out: 51.961 ± 0.410 χ^2/NDF : 1635.4/18
 Left In: -2.270 ± 0.271 χ^2/NDF : 2521.6/22

Left: -1.844 ± 0.190 χ^2/NDF : 6865.5/47
 Right: 52.151 ± 0.309 χ^2/NDF : 2314.5/36
 In: 11.351 ± 0.235 χ^2/NDF : 13359.6/40
 Out: 14.528 ± 0.224 χ^2/NDF : 17866.8/43
 All: 13.012 ± 0.162 χ^2/NDF : 31322.3/84

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.680 ± 0.390 $\chi^2/\text{NDF}: 667.4/34$

Left Out: 1.491 ± 0.210 $\chi^2/\text{NDF}: 259.1/24$

Right Out: -0.401 ± 0.363 $\chi^2/\text{NDF}: 558.2/37$

Left In: 2.075 ± 0.215 $\chi^2/\text{NDF}: 274.6/22$

Left: 1.776 ± 0.150 $\chi^2/\text{NDF}: 537.4/47$

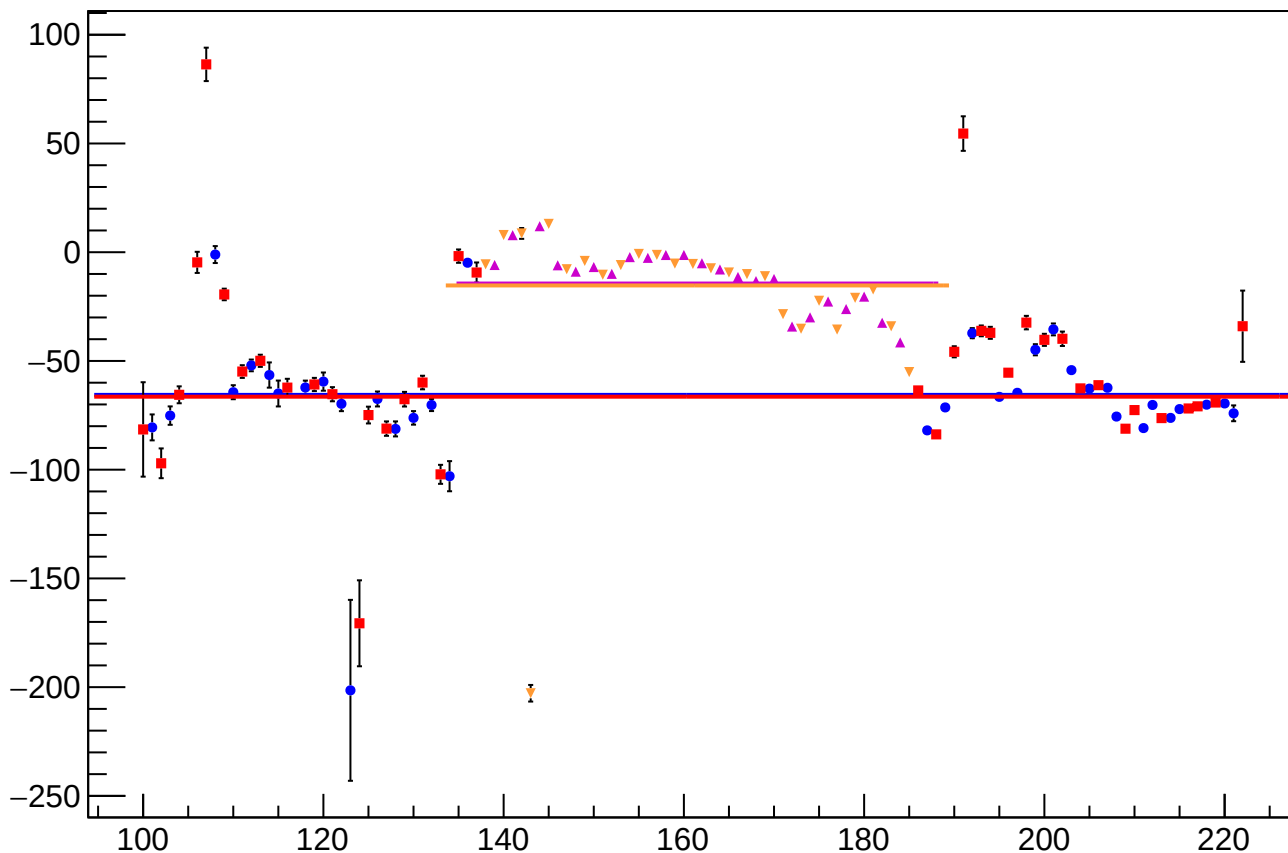
Right: -0.531 ± 0.266 $\chi^2/\text{NDF}: 1225.9/72$

In: 1.430 ± 0.188 $\chi^2/\text{NDF}: 980.3/57$

Out: 1.016 ± 0.182 $\chi^2/\text{NDF}: 837.6/62$

All: 1.216 ± 0.131 $\chi^2/\text{NDF}: 1820.3/120$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.605+/-0.399 χ^2/NDF : 1925.5/34

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.430+/-0.334 χ^2/NDF : 3437.6/37

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

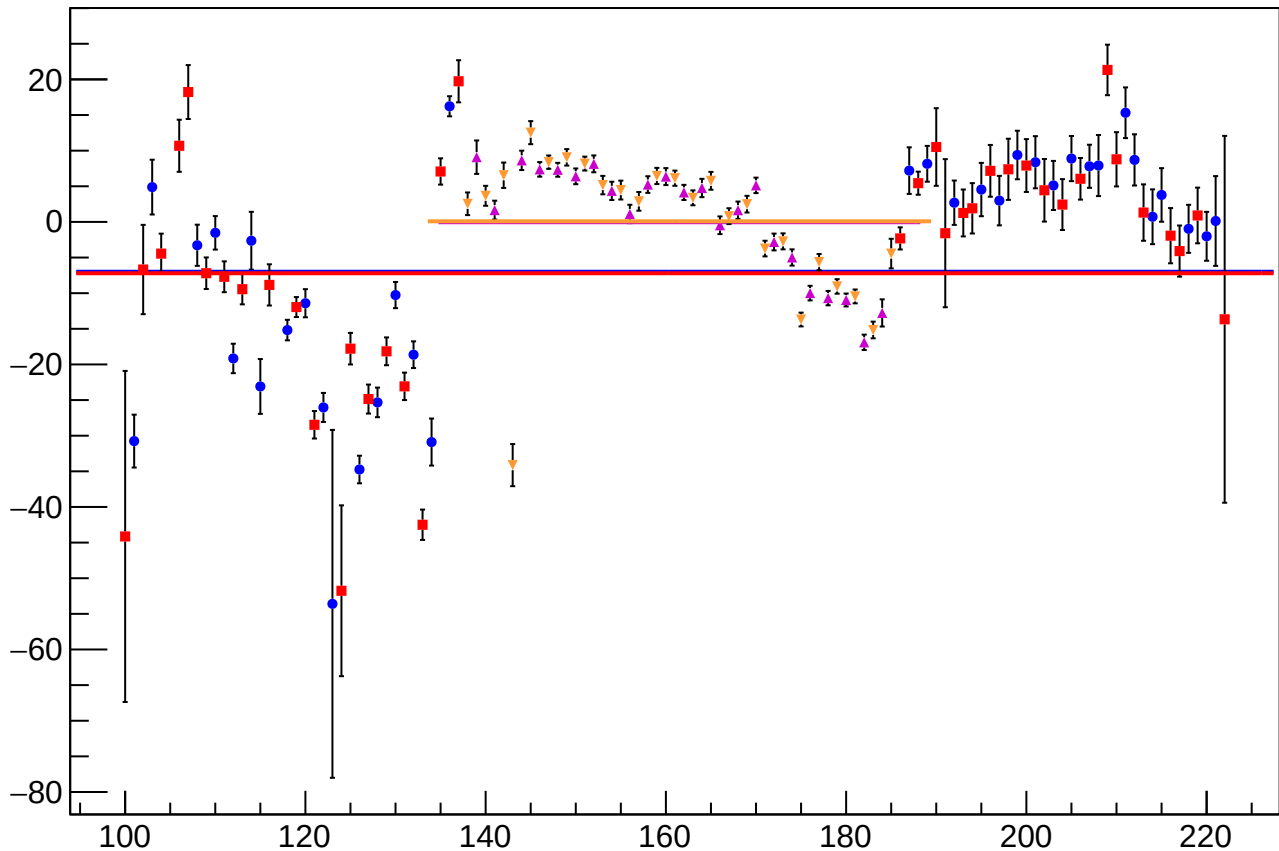
Right: -66.090+/-0.256 χ^2/NDF : 5365.7/72

In: -30.421+/-0.223 χ^2/NDF : 15280.2/57

Out: -35.182+/-0.209 χ^2/NDF : 22560.6/62

All: -32.962+/-0.152 χ^2/NDF : 38083.9/120

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.993 ± 0.449 χ^2/NDF : 1162.5/34

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.203 ± 0.433 χ^2/NDF : 1104.5/37

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

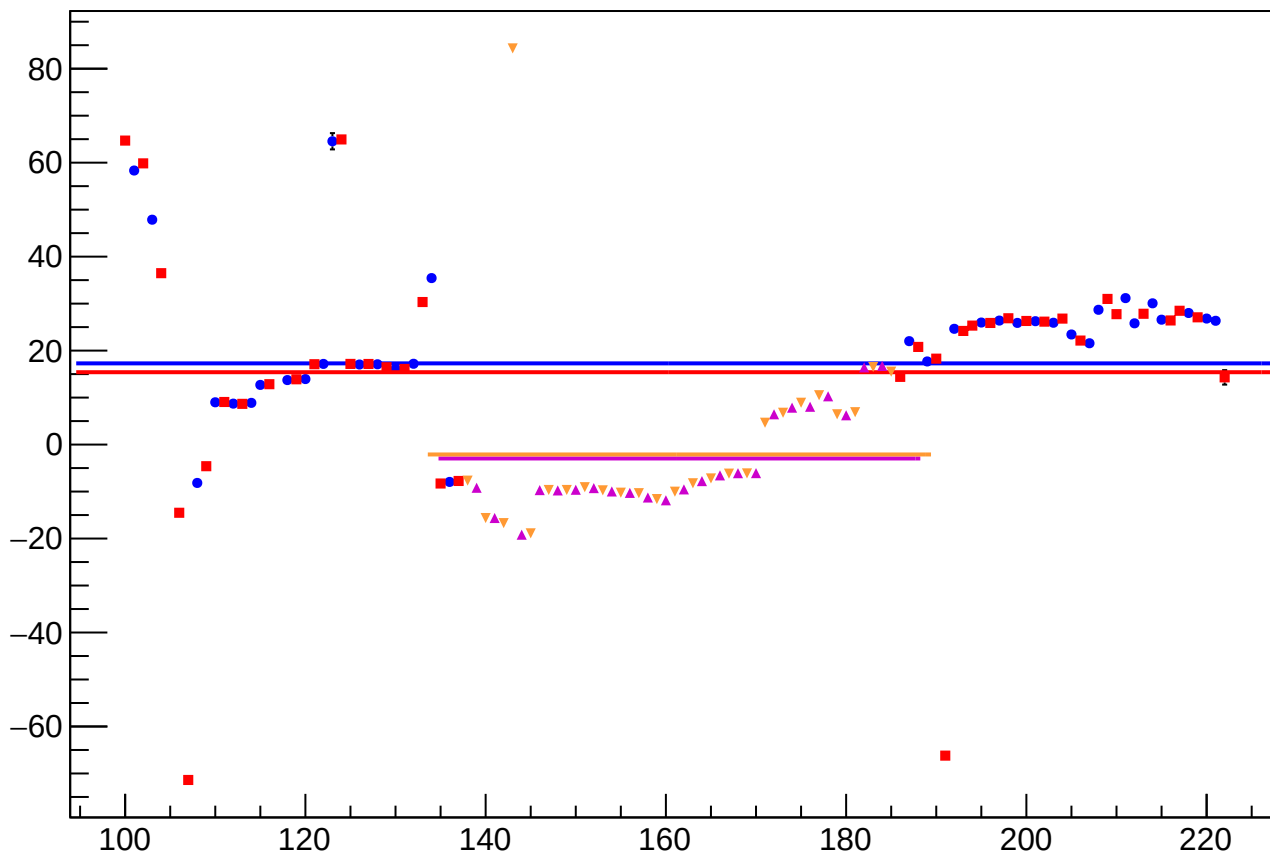
Right: -7.102 ± 0.312 χ^2/NDF : 2267.1/72

In: -1.621 ± 0.214 χ^2/NDF : 2376.2/57

Out: -1.607 ± 0.209 χ^2/NDF : 2494.4/62

All: -1.614 ± 0.149 χ^2/NDF : 4870.6/120

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.283+/-0.022 χ^2/NDF : 498503.7/34

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.402+/-0.022 χ^2/NDF : 776652.7/37

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

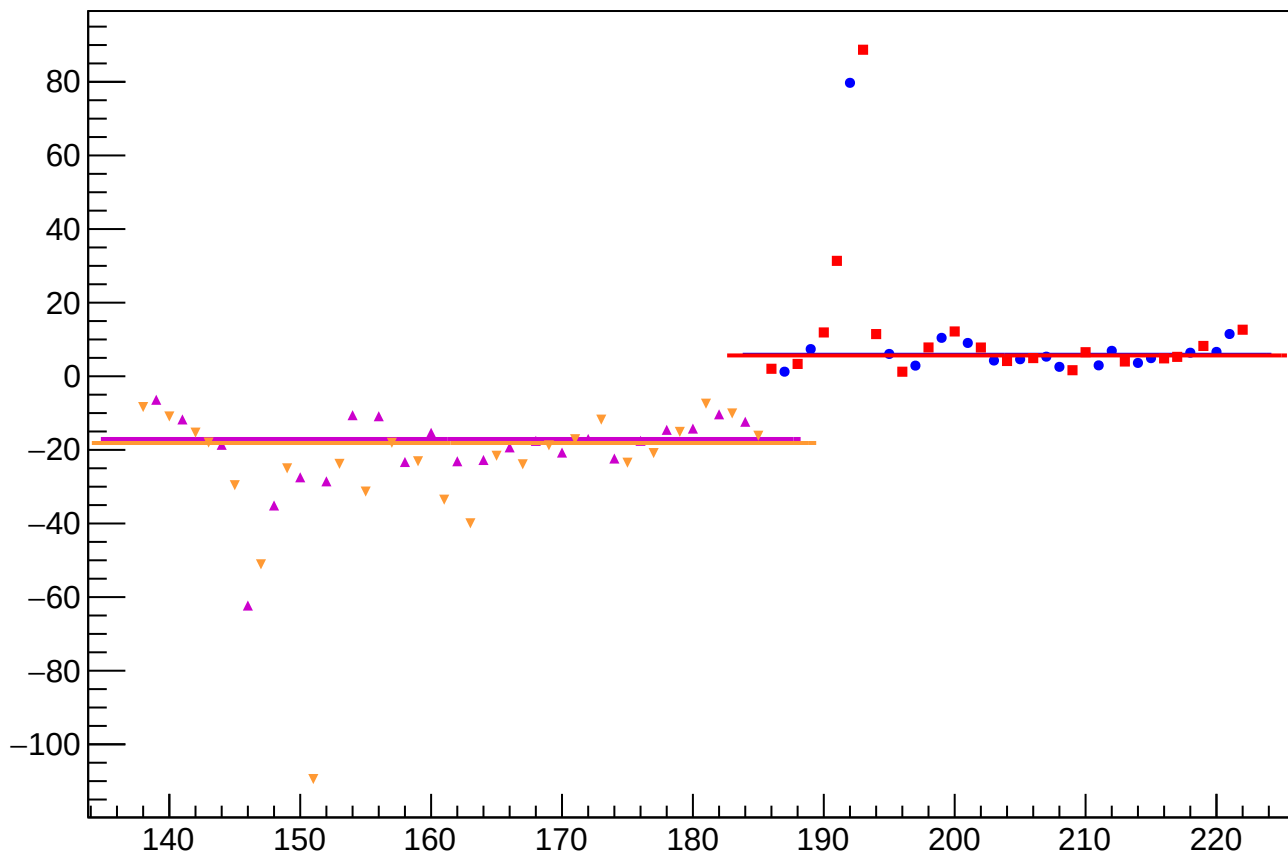
Right: 16.331+/-0.016 χ^2/NDF : 1278734.2/72

In: 0.984+/-0.010 χ^2/NDF : 1921040.0/57

Out: 1.331+/-0.010 χ^2/NDF : 2374074.1/62

All: 1.159+/-0.007 χ^2/NDF : 4295735.8/120

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



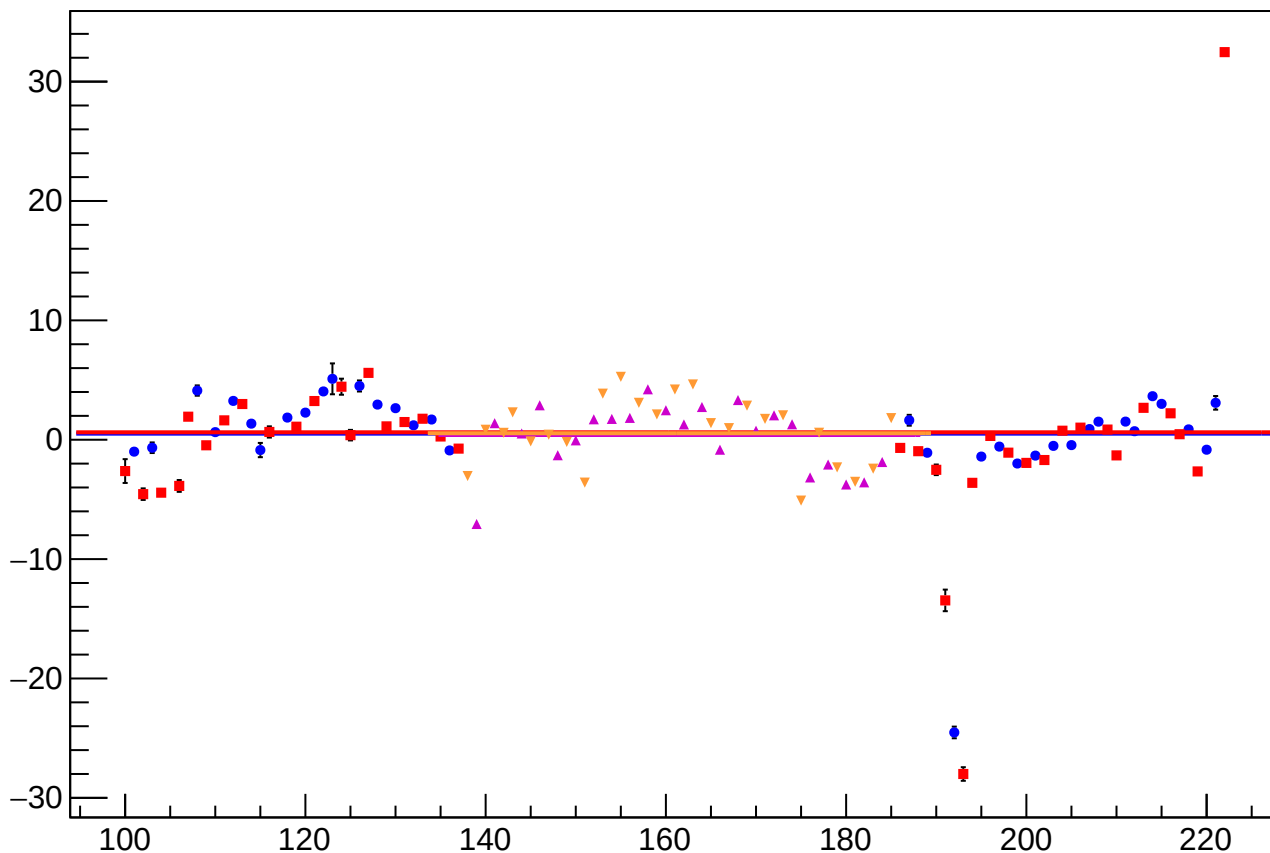
Right In: 5.845 ± 0.045 $\chi^2/\text{NDF}: 26873.7/17$
 Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$
 Right Out: 5.660 ± 0.044 $\chi^2/\text{NDF}: 28025.3/18$
 Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$
 Right: 5.751 ± 0.032 $\chi^2/\text{NDF}: 54907.6/36$

In: -7.463 ± 0.029 $\chi^2/\text{NDF}: 221537.3/40$
 Out: -7.785 ± 0.029 $\chi^2/\text{NDF}: 279056.4/43$

All: -7.623 ± 0.021 $\chi^2/\text{NDF}: 500654.7/84$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.510 ± 0.045 $\chi^2/\text{NDF}: 4032.9/34$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.623 ± 0.043 $\chi^2/\text{NDF}: 11828.8/37$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

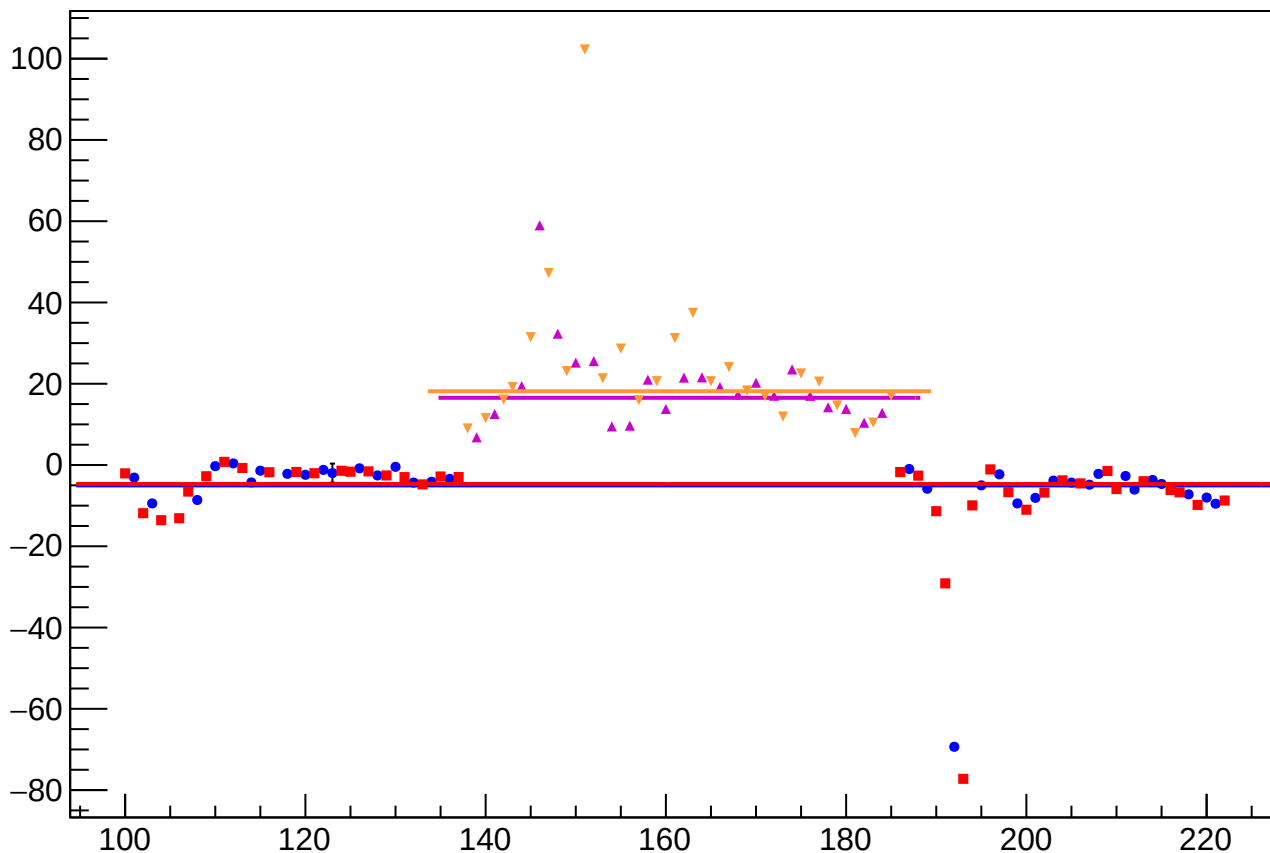
Right: 0.569 ± 0.031 $\chi^2/\text{NDF}: 15865.0/72$

In: 0.433 ± 0.025 $\chi^2/\text{NDF}: 10272.8/57$

Out: 0.572 ± 0.026 $\chi^2/\text{NDF}: 18916.3/62$

All: 0.501 ± 0.018 $\chi^2/\text{NDF}: 29203.9/120$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.014+/-0.041 χ^2/NDF : 27827.7/34

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.678+/-0.038 χ^2/NDF : 29302.7/37

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

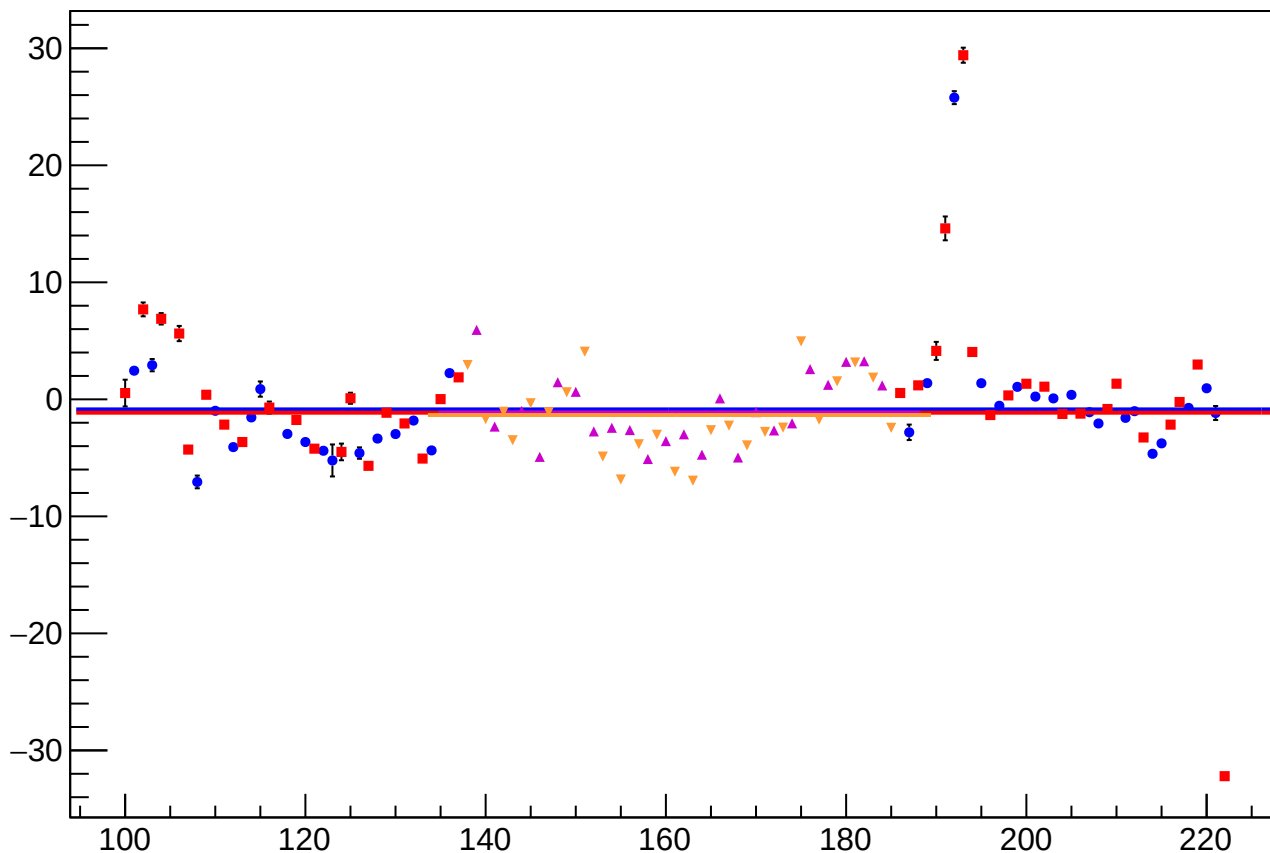
Right: -4.837+/-0.028 χ^2/NDF : 57166.3/72

In: 6.577+/-0.028 χ^2/NDF : 219375.0/57

Out: 6.548+/-0.027 χ^2/NDF : 280447.6/62

All: 6.562+/-0.019 χ^2/NDF : 499823.2/120

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.860 ± 0.051 $\chi^2/\text{NDF}: 4144.1/34$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -1.140 ± 0.049 $\chi^2/\text{NDF}: 10941.2/37$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

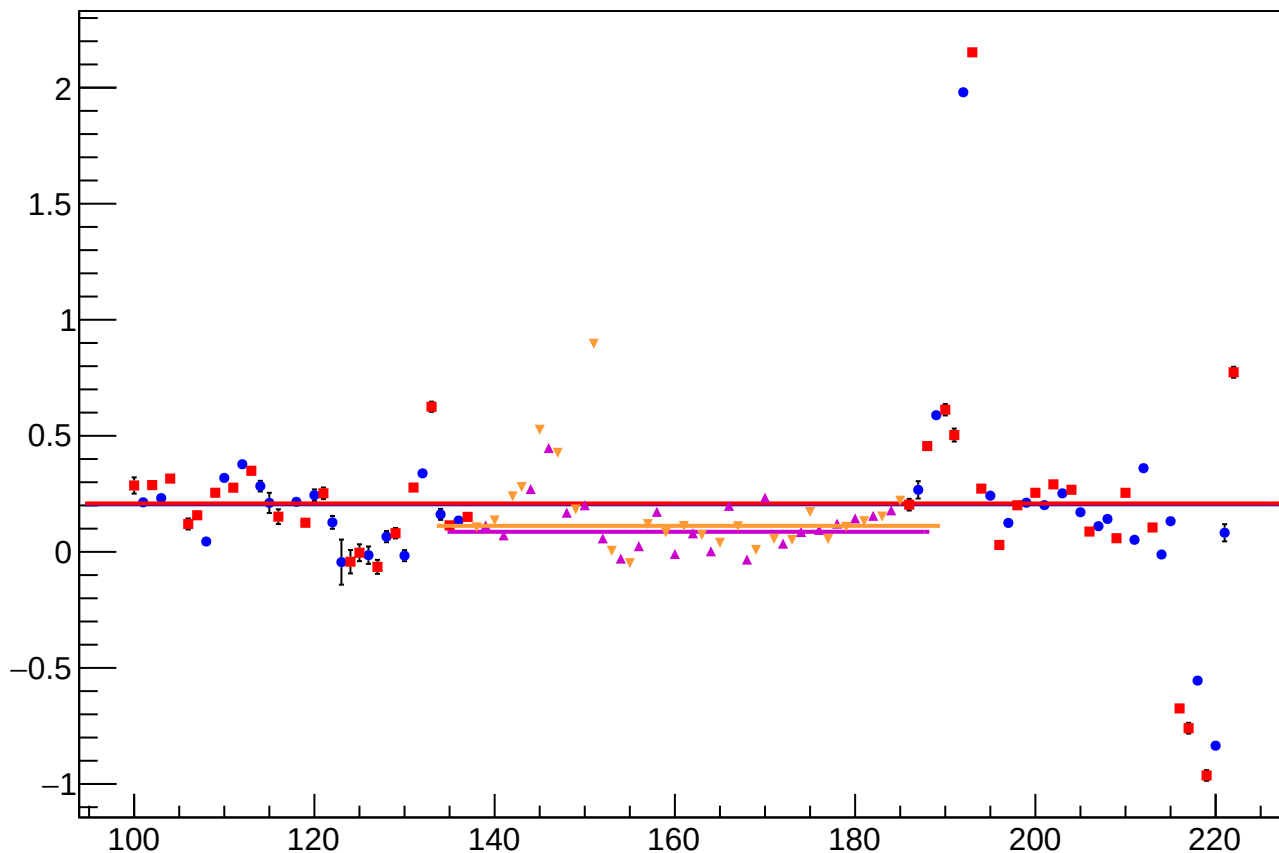
Right: -1.006 ± 0.036 $\chi^2/\text{NDF}: 15100.8/72$

In: -1.047 ± 0.028 $\chi^2/\text{NDF}: 10903.4/57$

Out: -1.270 ± 0.029 $\chi^2/\text{NDF}: 18894.7/62$

All: -1.156 ± 0.020 $\chi^2/\text{NDF}: 29828.0/120$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.002 χ^2 /NDF: 15841.2/34

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF: 4503.9/24

Right Out: 0.209 $\pm$ 0.002 χ^2 /NDF: 18889.8/37

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

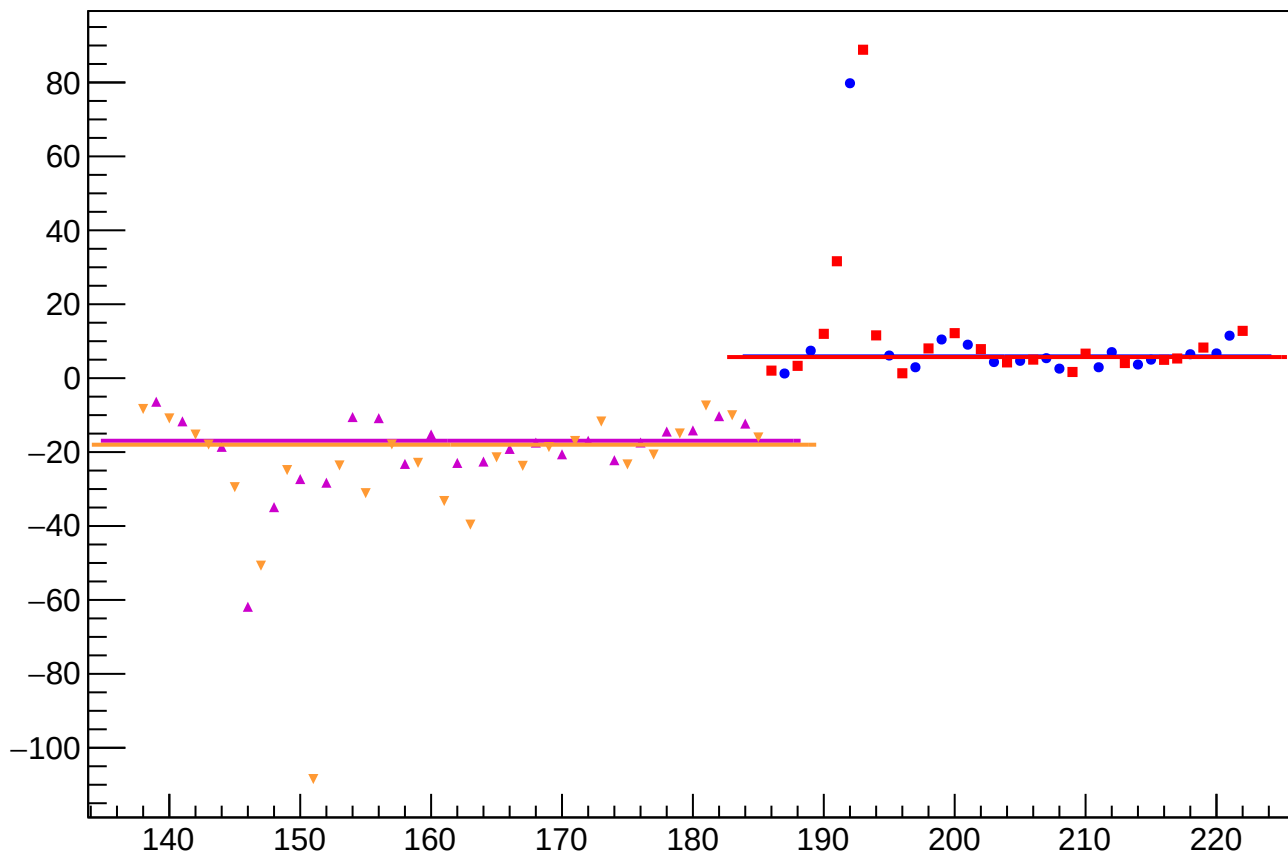
Right: 0.207 $\pm$ 0.002 χ^2 /NDF: 34732.2/72

In: 0.122 $\pm$ 0.001 χ^2 /NDF: 21339.1/57

Out: 0.144 $\pm$ 0.001 χ^2 /NDF: 24599.4/62

All: 0.132 $\pm$ 0.001 χ^2 /NDF: 46094.0/120

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.897 ± 0.045 $\chi^2/\text{NDF}: 27090.3/17$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 5.709 ± 0.044 $\chi^2/\text{NDF}: 28418.8/18$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

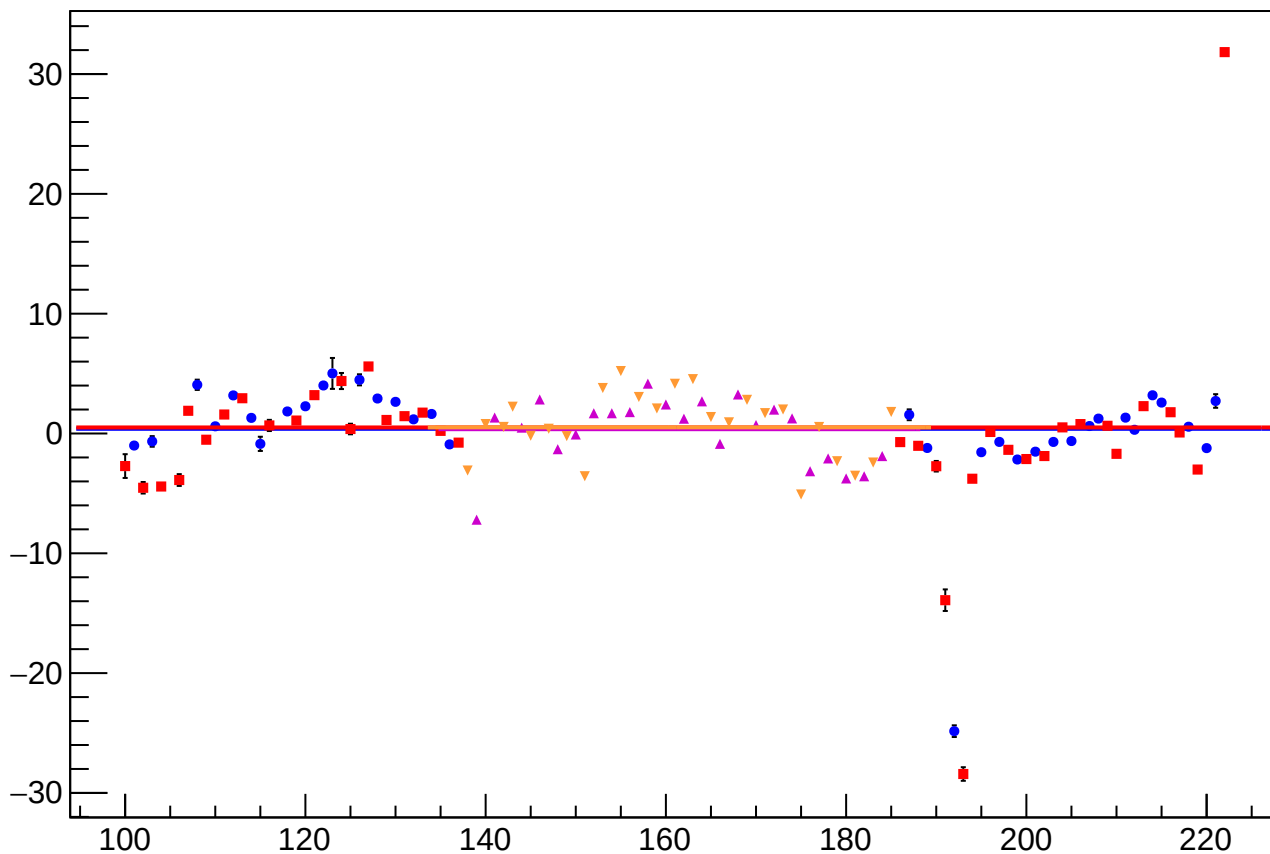
Right: 5.801 ± 0.031 $\chi^2/\text{NDF}: 55517.9/36$

In: -7.406 ± 0.029 $\chi^2/\text{NDF}: 222571.3/40$

Out: -7.706 ± 0.029 $\chi^2/\text{NDF}: 280381.6/43$

All: -7.555 ± 0.021 $\chi^2/\text{NDF}: 503006.5/84$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.390 $\pm$ 0.045 χ^2 /NDF: 4132.3/34

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF:7070.4/24

Right Out: 0.504 $\pm$ 0.043 χ^2 /NDF: 11838.8/37

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

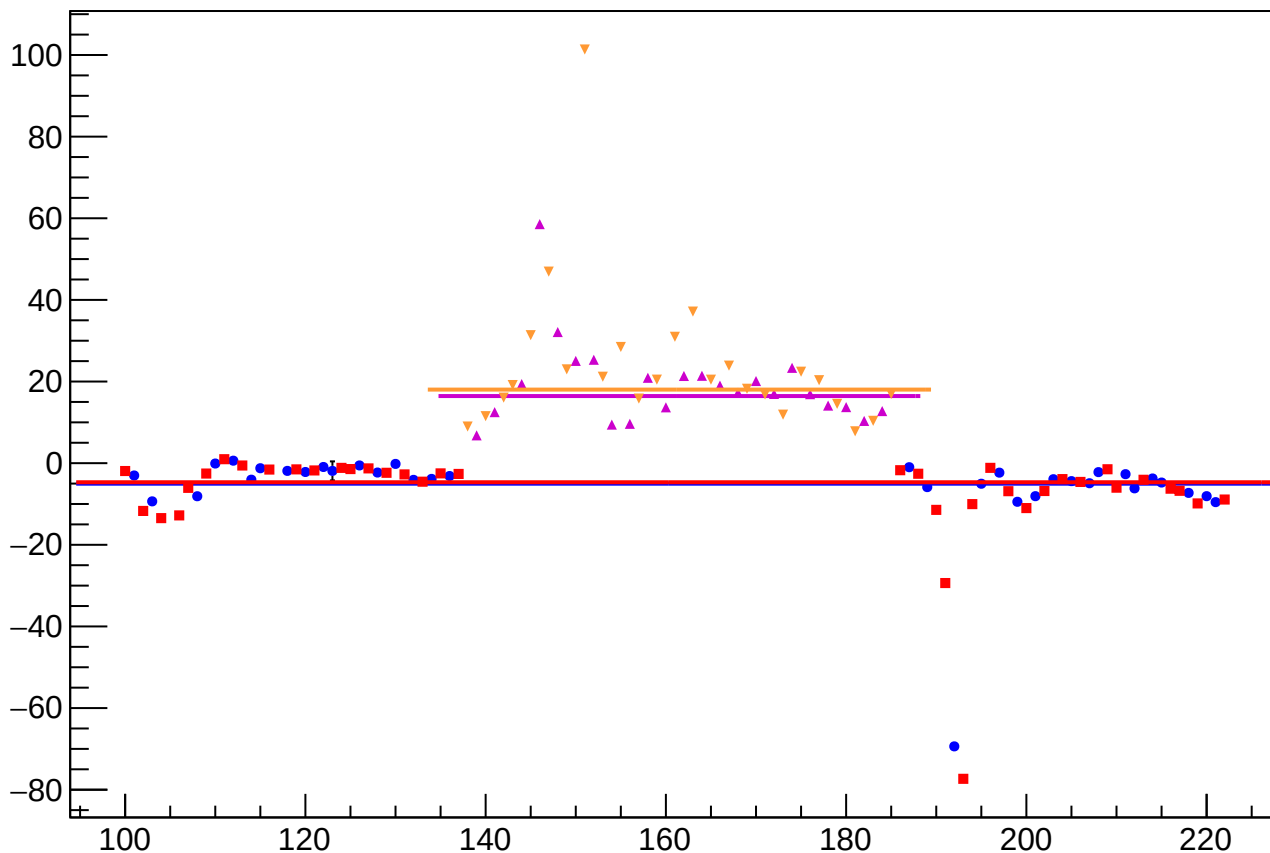
Right: 0.450 $\pm$ 0.031 χ^2 /NDF: 15974.5/72

In: 0.369 $\pm$ 0.025 χ^2 /NDF:10353.7/57

Out: 0.509 $\pm$ 0.026 χ^2 /NDF:18909.2/62

All: 0.438 $\pm$ 0.018 χ^2 /NDF: 29278.0/120

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.024 $\pm$ 0.041 χ^2 /NDF: 28171.4/34

Left Out: 18.027 $\pm$ 0.039 χ^2 /NDF: 77718.1/24

Right Out: -4.676 $\pm$ 0.038 χ^2 /NDF: 29826.0/37

Left In: 16.443 $\pm$ 0.038 χ^2 /NDF: 40780.6/22

Left: 17.207 $\pm$ 0.027 χ^2 /NDF: 119360.0/47

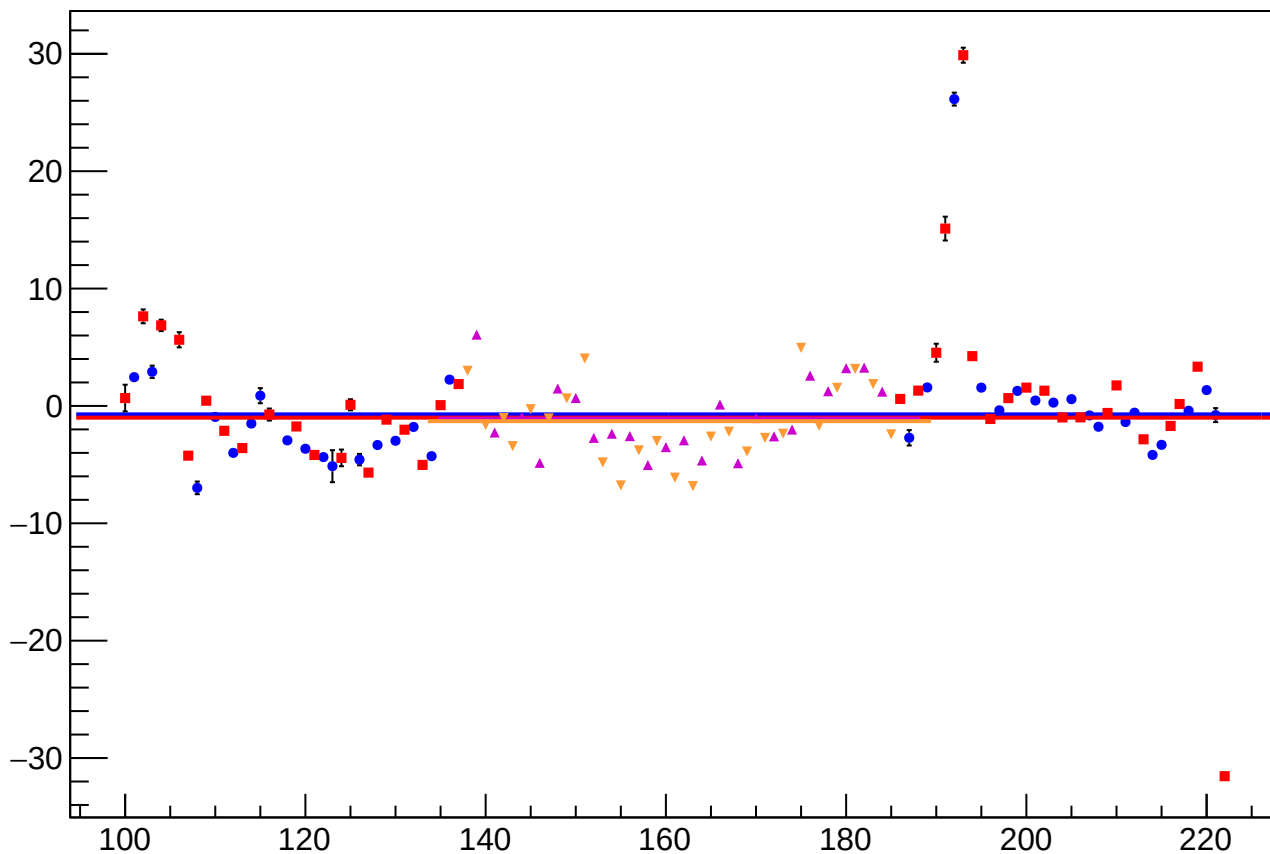
Right: -4.839 $\pm$ 0.028 χ^2 /NDF: 58036.5/72

In: 6.542 $\pm$ 0.028 χ^2 /NDF: 220014.6/57

Out: 6.496 $\pm$ 0.027 χ^2 /NDF: 281255.6/62

All: 6.519 $\pm$ 0.019 χ^2 /NDF: 501271.7/120

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.719 ± 0.051 χ^2/NDF : 4225.6/34

Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24

Right Out: -1.000 ± 0.049 χ^2/NDF : 10972.9/37

Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47

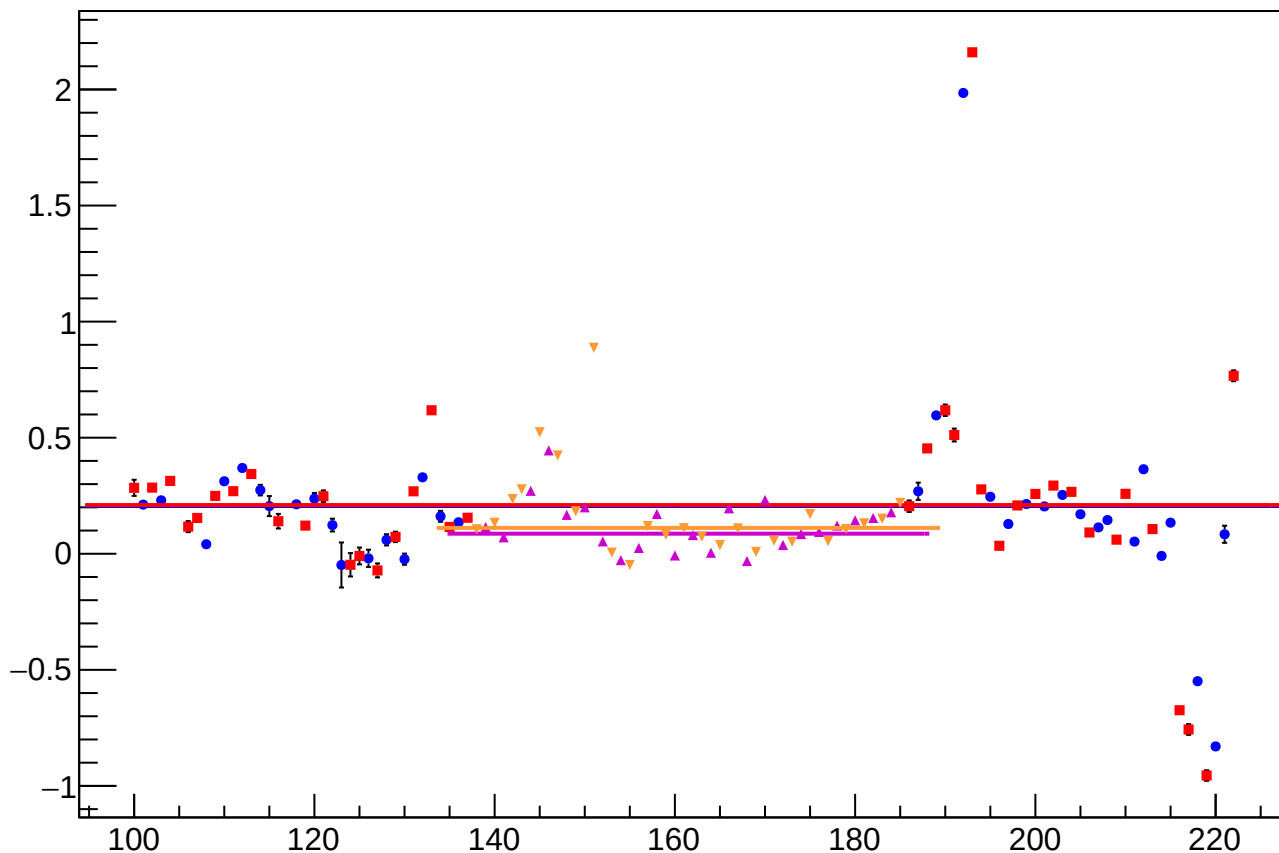
Right: -0.866 ± 0.035 χ^2/NDF : 15214.2/72

In: -0.971 ± 0.028 χ^2/NDF : 10984.5/57

Out: -1.195 ± 0.029 χ^2/NDF : 18921.9/62

All: -1.081 ± 0.020 χ^2/NDF : 29937.0/120

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.206 ± 0.002 χ^2/NDF : 15972.6/34

Left Out: 0.111 ± 0.002 χ^2/NDF : 4496.0/24

Right Out: 0.210 ± 0.002 χ^2/NDF : 19029.6/37

Left In: 0.087 ± 0.001 χ^2/NDF : 3625.5/22

Left: 0.098 ± 0.001 χ^2/NDF : 8251.9/47

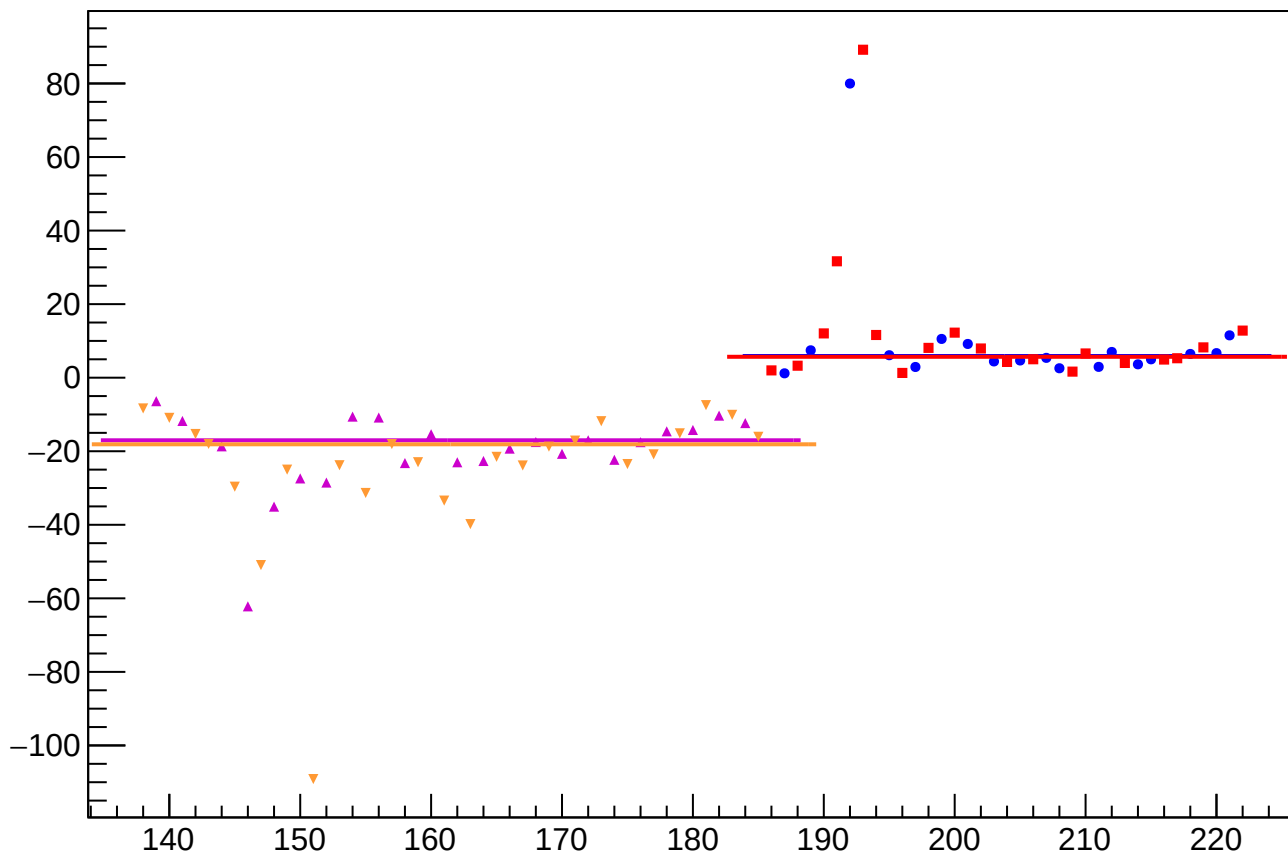
Right: 0.208 ± 0.002 χ^2/NDF : 35003.7/72

In: 0.122 ± 0.001 χ^2/NDF : 21485.0/57

Out: 0.144 ± 0.001 χ^2/NDF : 24792.4/62

All: 0.133 ± 0.001 χ^2/NDF : 46430.4/120

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.896 $\pm$ 0.045 χ^2 /NDF: 27079.6/17

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 5.684 $\pm$ 0.044 χ^2 /NDF: 28434.1/18

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

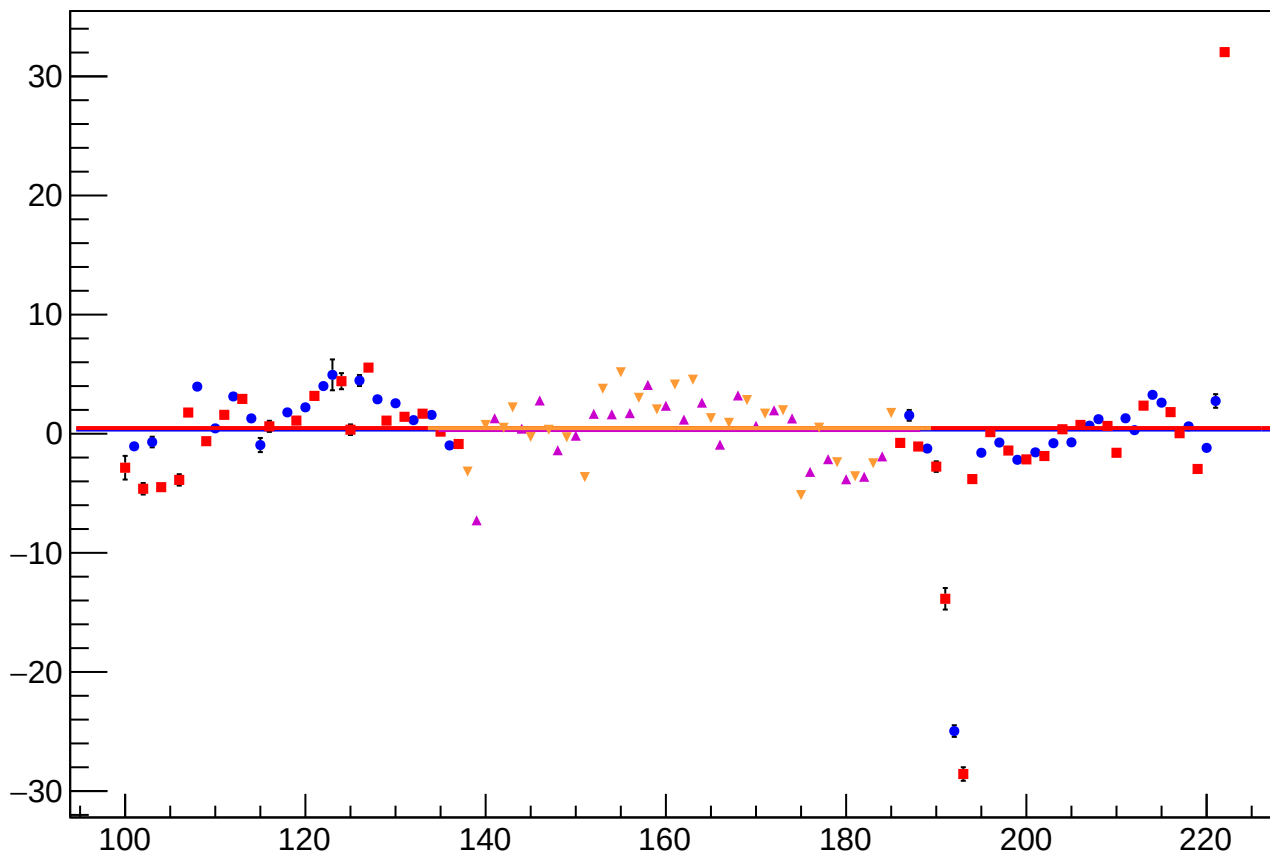
Right: 5.788 $\pm$ 0.032 χ^2 /NDF: 55525.0/36

In: -7.493 $\pm$ 0.029 χ^2 /NDF: 222106.5/40

Out: -7.786 $\pm$ 0.029 χ^2 /NDF: 280133.1/43

All: -7.639 $\pm$ 0.021 χ^2 /NDF: 502290.4/84

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.351 $\pm$ 0.045 χ^2 /NDF: 4126.1/34

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF:7093.0/24

Right Out: 0.476 $\pm$ 0.043 χ^2 /NDF: 11852.2/37

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF:6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

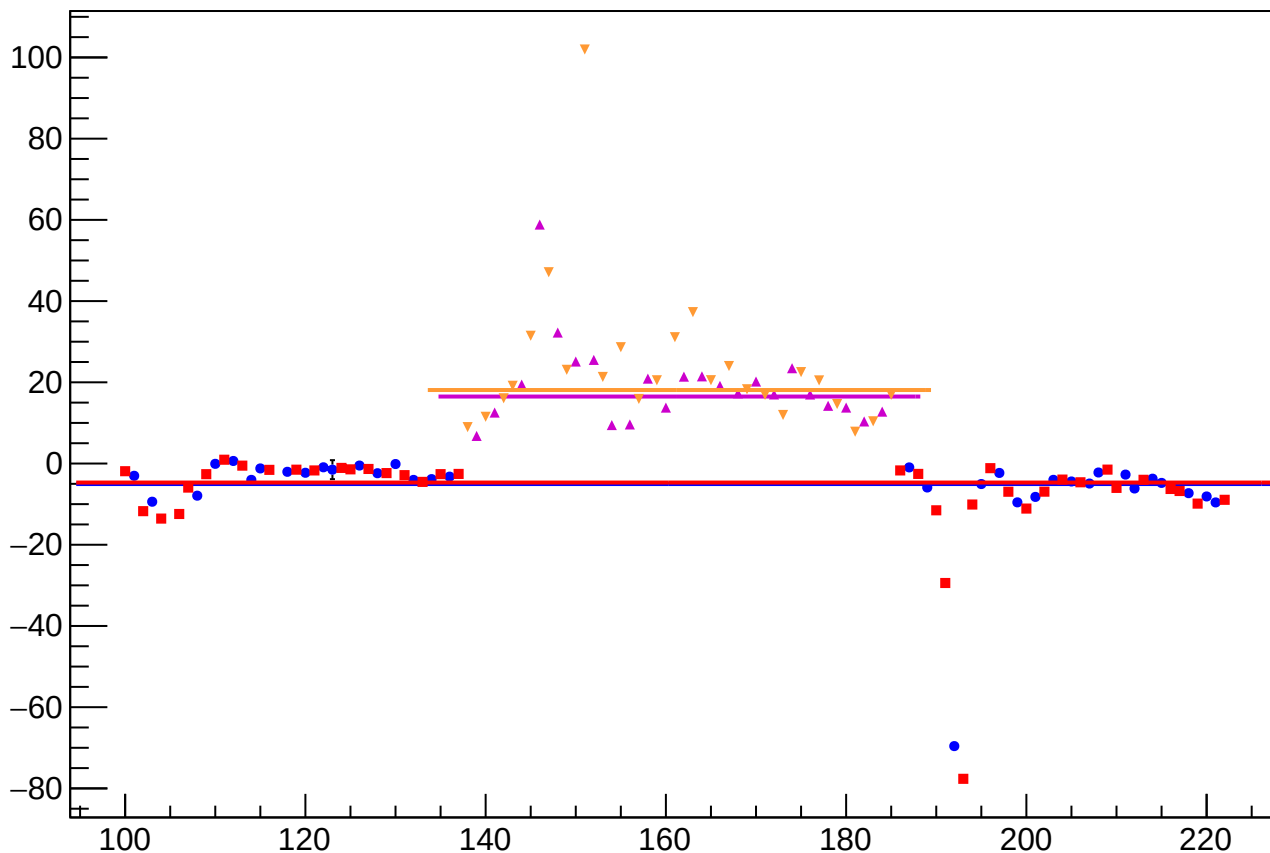
Right: 0.417 $\pm$ 0.031 χ^2 /NDF: 15982.4/72

In: 0.323 $\pm$ 0.025 χ^2 /NDF:10309.8/57

Out: 0.472 $\pm$ 0.026 χ^2 /NDF:18945.2/62

All: 0.396 $\pm$ 0.018 χ^2 /NDF: 29271.8/120

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.052 $\pm$ 0.041 χ^2 /NDF: 28155.4/34

Left Out: 18.101 $\pm$ 0.039 χ^2 /NDF:77839.7/24

Right Out: -4.682 $\pm$ 0.038 χ^2 /NDF: 29821.8/37

Left In: 16.496 $\pm$ 0.038 χ^2 /NDF:40867.3/22

Left: 17.270 $\pm$ 0.027 χ^2 /NDF: 119584.1/47

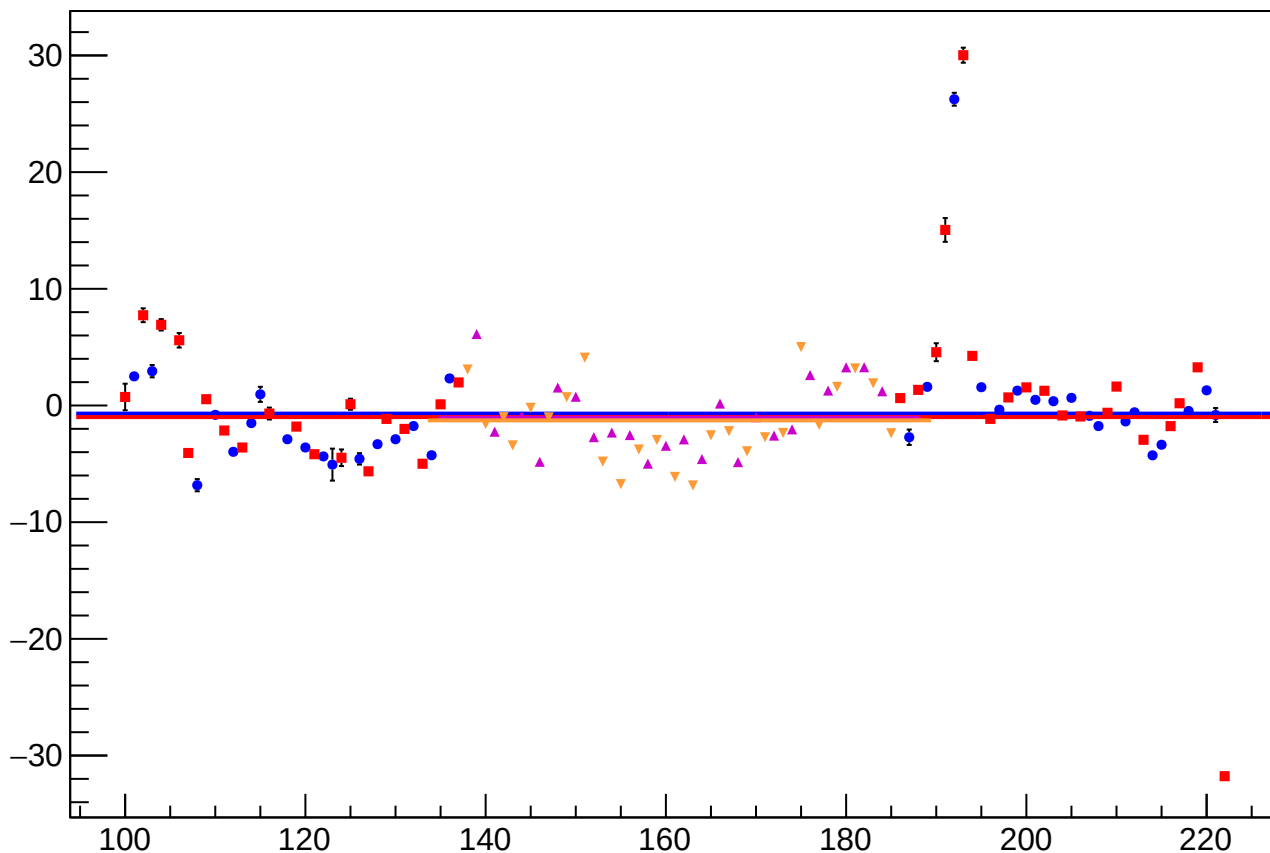
Right: -4.856 $\pm$ 0.028 χ^2 /NDF: 58020.7/72

In: 6.588 $\pm$ 0.028 χ^2 /NDF:219598.8/57

Out: 6.530 $\pm$ 0.027 χ^2 /NDF:281090.1/62

All: 6.559 $\pm$ 0.019 χ^2 /NDF: 500691.1/120

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.696 ± 0.052 $\chi^2/\text{NDF}: 4222.2/34$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.994 ± 0.049 $\chi^2/\text{NDF}: 10983.8/37$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

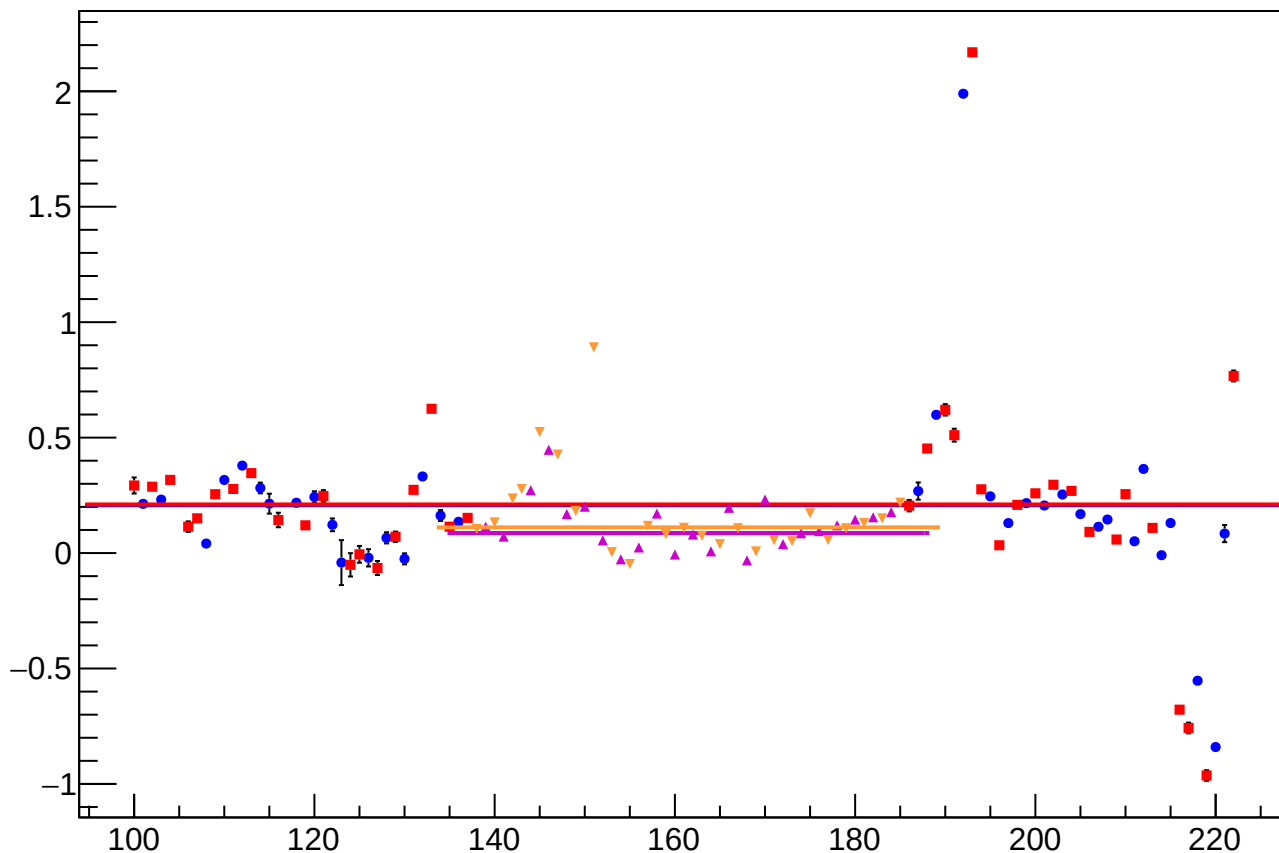
Right: -0.851 ± 0.036 $\chi^2/\text{NDF}: 15223.4/72$

In: -0.943 ± 0.028 $\chi^2/\text{NDF}: 10928.5/57$

Out: -1.177 ± 0.029 $\chi^2/\text{NDF}: 18956.4/62$

All: -1.057 ± 0.020 $\chi^2/\text{NDF}: 29918.1/120$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.207 $\pm$ 0.002 χ^2 /NDF: 15980.2/34

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.211 $\pm$ 0.002 χ^2 /NDF: 19018.0/37

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

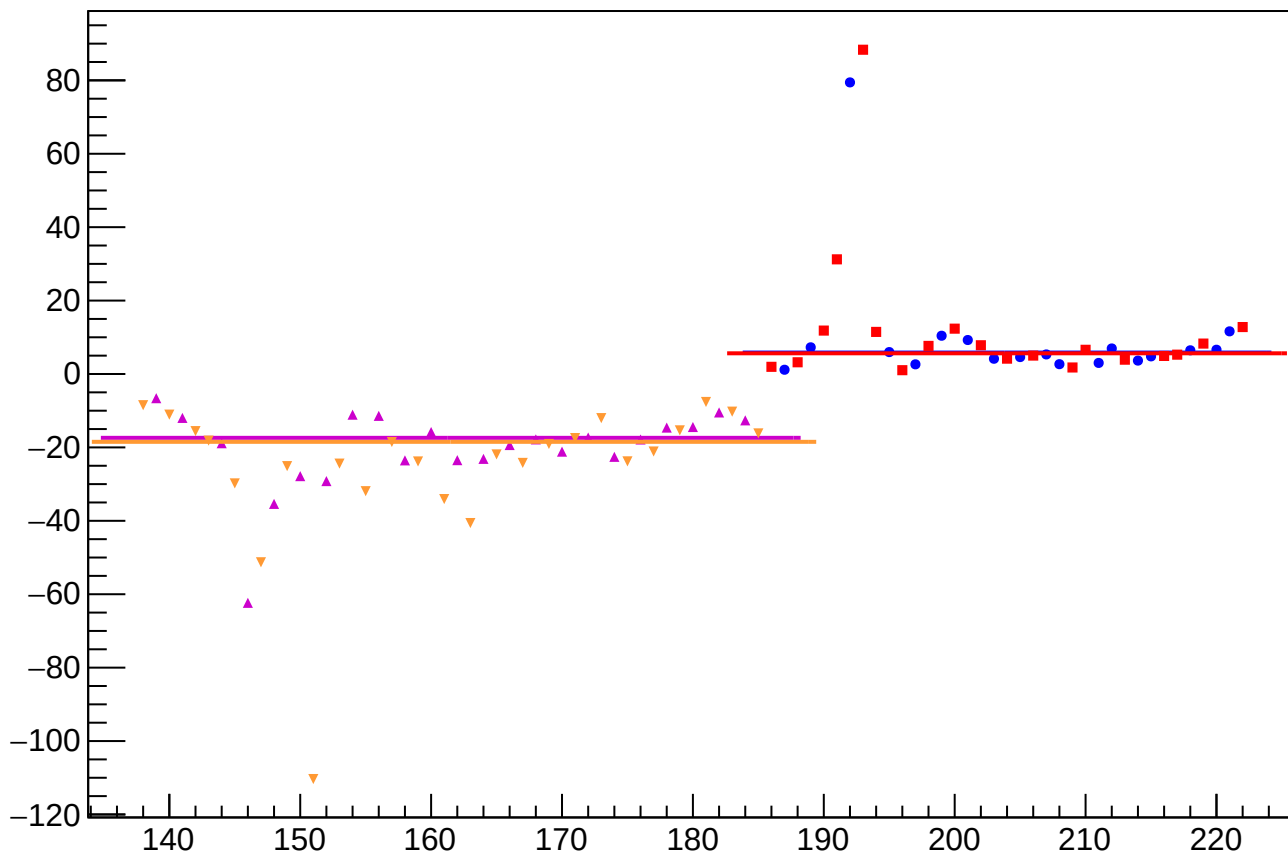
Right: 0.209 $\pm$ 0.002 χ^2 /NDF: 34999.5/72

In: 0.122 $\pm$ 0.001 χ^2 /NDF:21470.7/57

Out: 0.144 $\pm$ 0.001 χ^2 /NDF:24772.0/62

All: 0.133 $\pm$ 0.001 χ^2 /NDF: 46389.9/120

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.838 $\pm$ 0.045 χ^2 /NDF: 26614.0/17

Left Out: -18.479 $\pm$ 0.040 χ^2 /NDF: 87883.4/24

Right Out: 5.637 $\pm$ 0.045 χ^2 /NDF: 27844.4/18

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

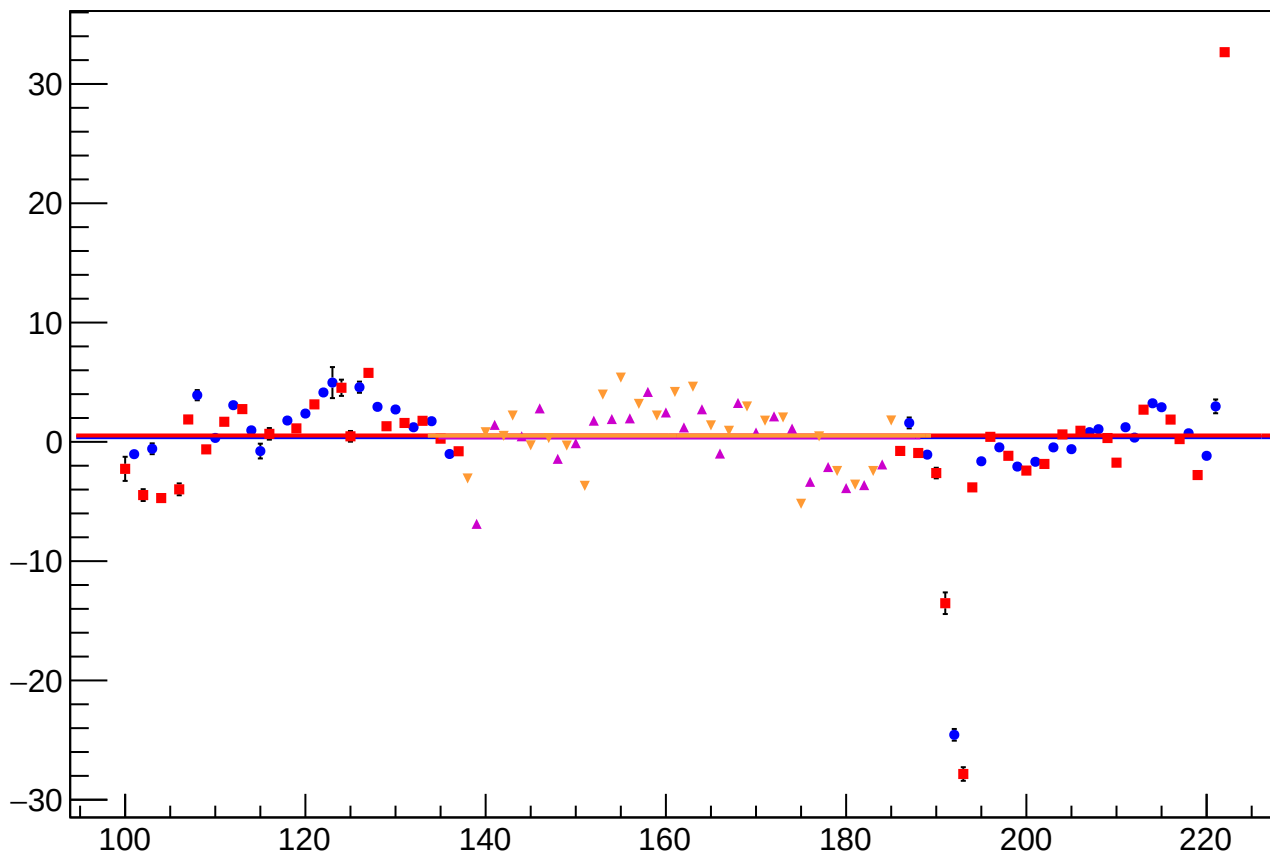
Right: 5.736 $\pm$ 0.032 χ^2 /NDF: 54468.4/36

In: -7.528 $\pm$ 0.030 χ^2 /NDF: 220780.9/40

Out: -7.803 $\pm$ 0.030 χ^2 /NDF: 279086.7/43

All: -7.665 $\pm$ 0.021 χ^2 /NDF: 499910.8/84

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.393 $\pm$ 0.046 χ^2 /NDF: 3997.3/34

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.534 $\pm$ 0.044 χ^2 /NDF: 11772.4/37

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF:6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

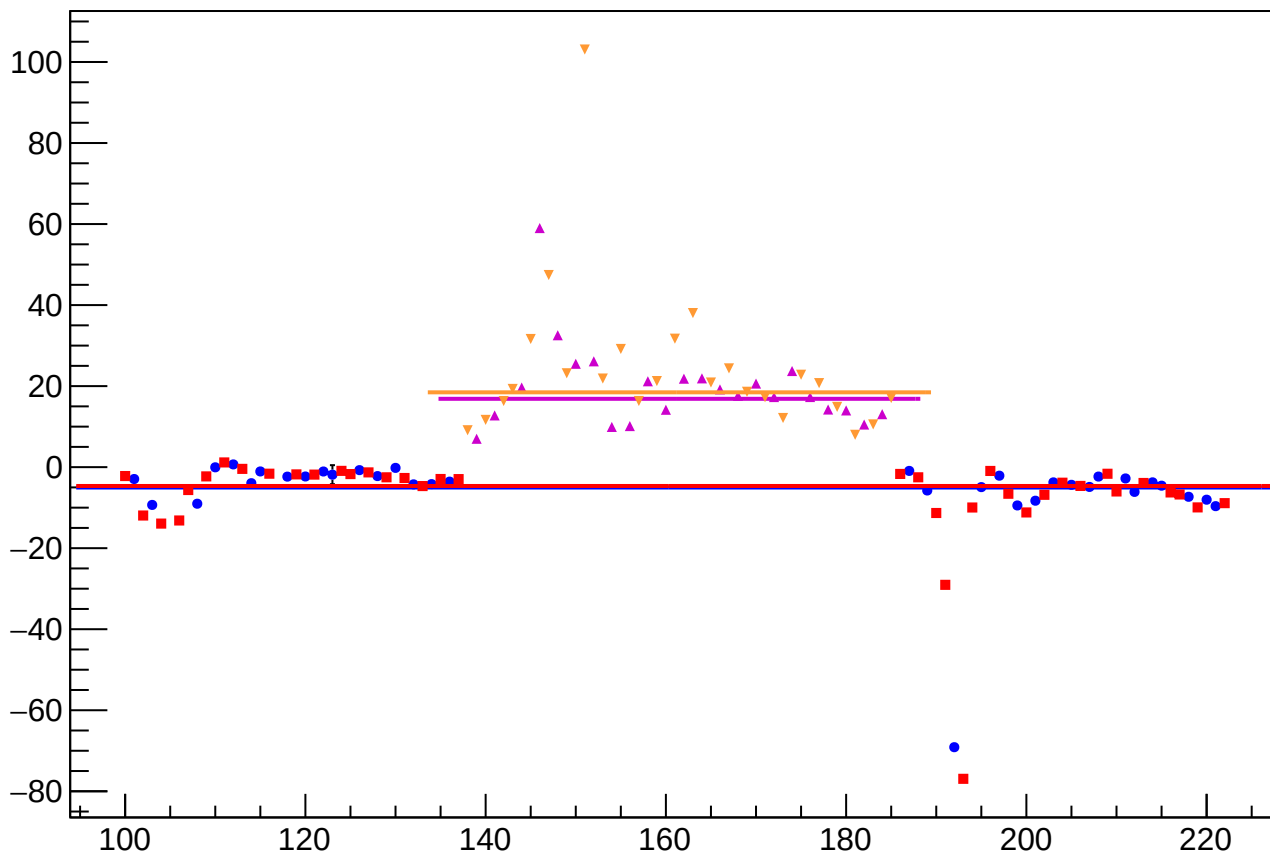
Right: 0.467 $\pm$ 0.032 χ^2 /NDF: 15774.7/72

In: 0.378 $\pm$ 0.026 χ^2 /NDF:10214.8/57

Out: 0.526 $\pm$ 0.026 χ^2 /NDF:18827.5/62

All: 0.451 $\pm$ 0.018 χ^2 /NDF: 29058.4/120

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.025+/-0.041 χ^2/NDF : 27633.9/34

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.646+/-0.039 χ^2/NDF : 29264.3/37

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

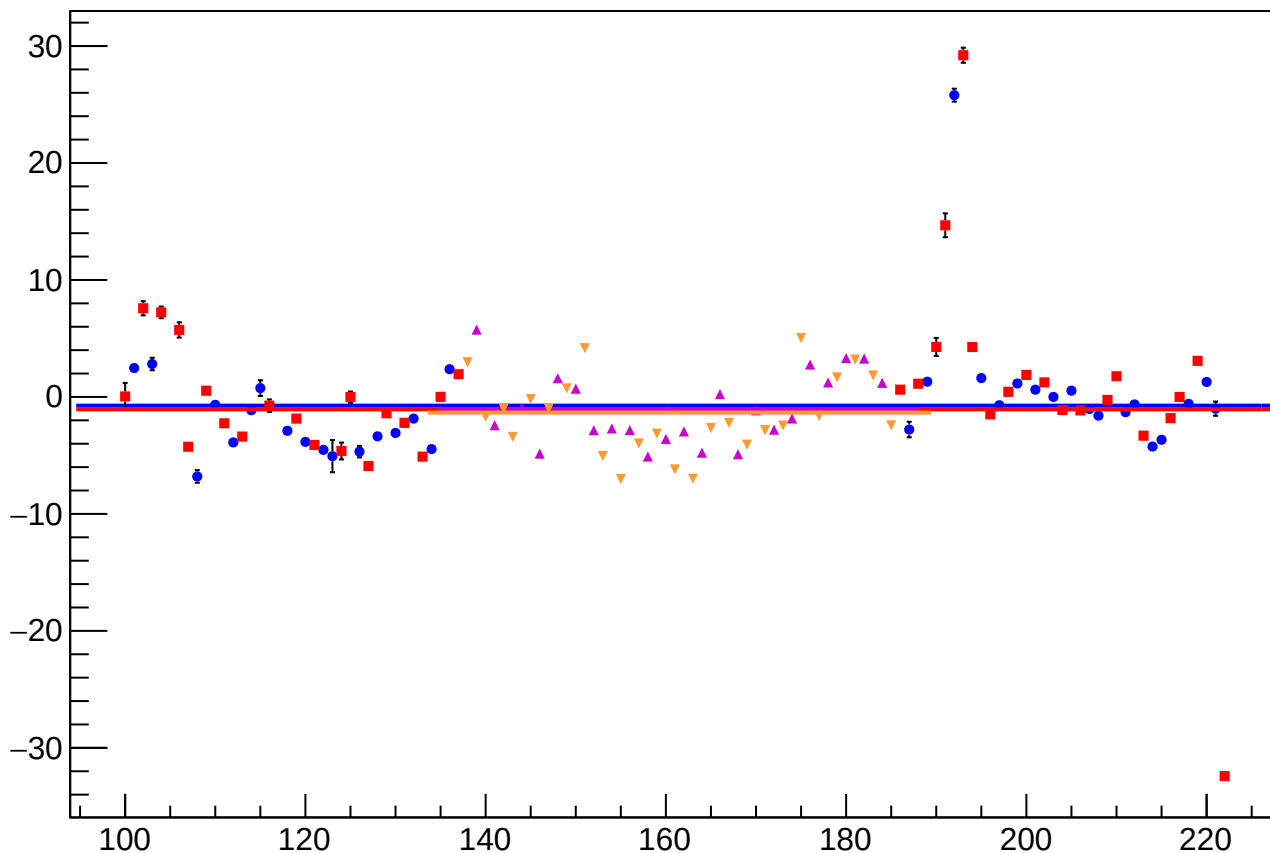
Right: -4.824+/-0.028 χ^2/NDF : 56943.1/72

In: 6.620+/-0.028 χ^2/NDF : 218233.2/57

Out: 6.548+/-0.028 χ^2/NDF : 279671.3/62

All: 6.584+/-0.020 χ^2/NDF : 497907.8/120

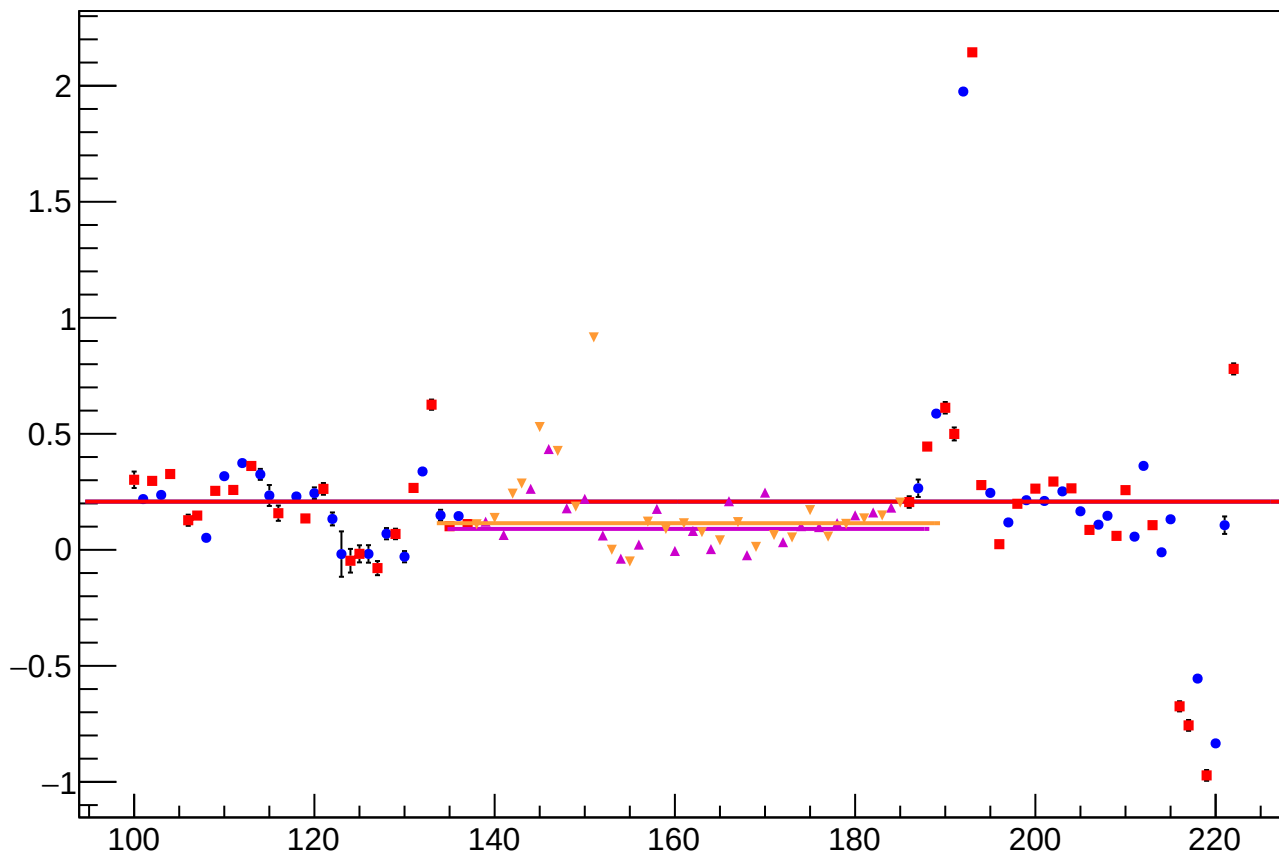
reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.744 ± 0.052 $\chi^2/\text{NDF}: 4106.9/34$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -1.060 ± 0.050 $\chi^2/\text{NDF}: 10912.3/37$
 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: -0.908 ± 0.036 $\chi^2/\text{NDF}: 15038.5/72$
 In: -1.012 ± 0.029 $\chi^2/\text{NDF}: 10853.8/57$
 Out: -1.243 ± 0.030 $\chi^2/\text{NDF}: 18840.1/62$
 All: -1.125 ± 0.021 $\chi^2/\text{NDF}: 29725.0/120$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.208 $\pm$ 0.002 χ^2 /NDF: 15629.6/34

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.208 $\pm$ 0.002 χ^2 /NDF: 18778.0/37

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

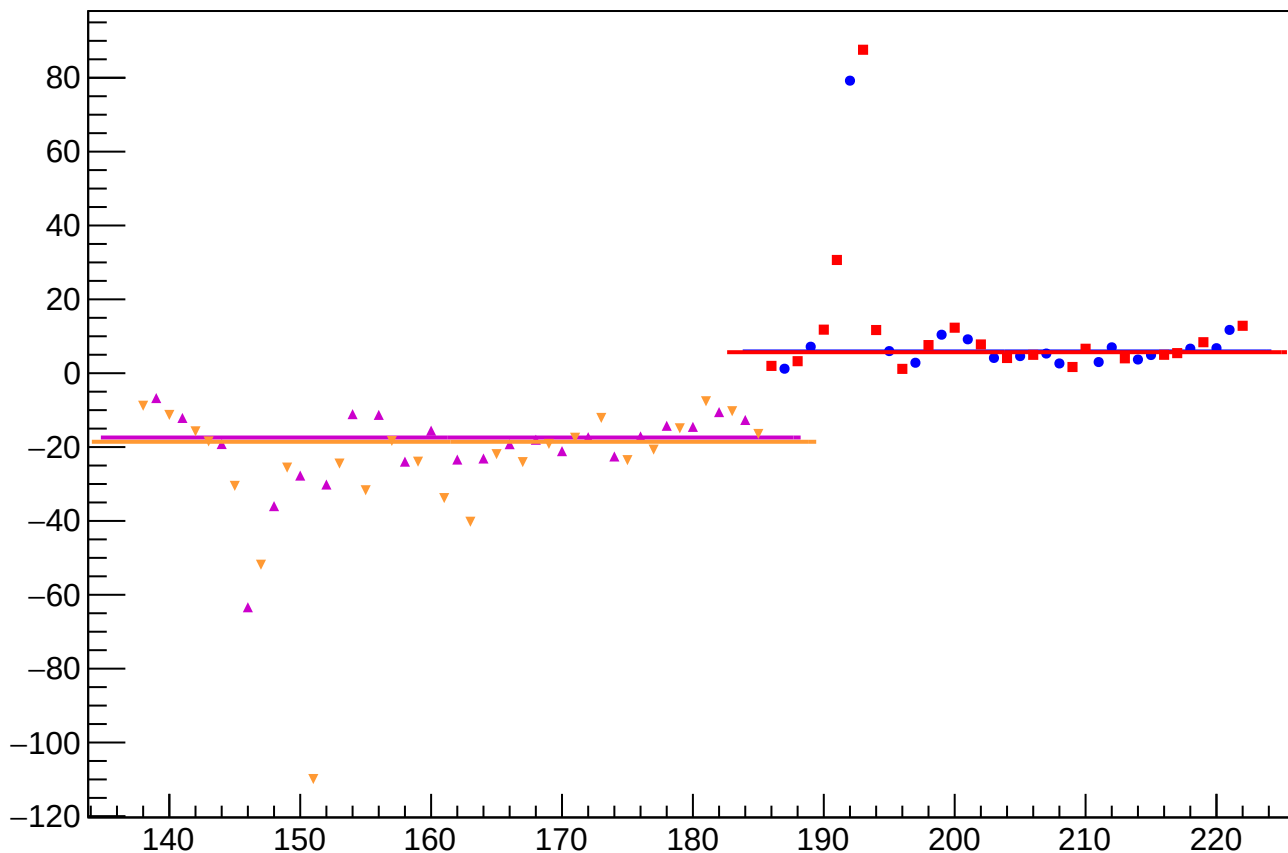
Right: 0.208 $\pm$ 0.002 χ^2 /NDF: 34407.6/72

In: 0.126 $\pm$ 0.001 χ^2 /NDF:21071.9/57

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:24301.9/62

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 45497.1/120

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



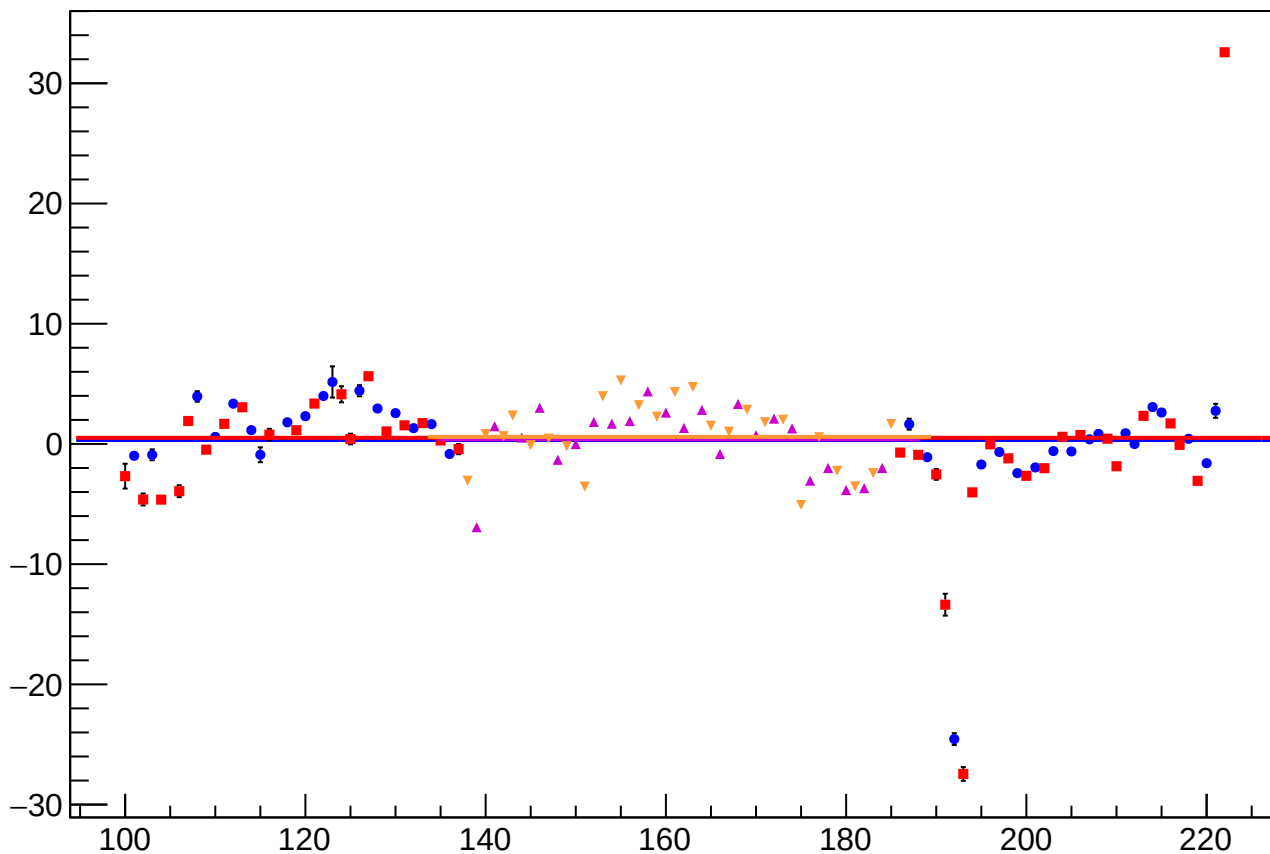
Right In: 5.891+/-0.046 χ^2/NDF : 26130.0/17
 Left Out: -18.566+/-0.040 χ^2/NDF : 86389.6/24
 Right Out: 5.690+/-0.045 χ^2/NDF : 27204.2/18
 Left In: -17.414+/-0.039 χ^2/NDF : 43504.1/22

Left: -17.979+/-0.028 χ^2/NDF : 130314.7/47
 Right: 5.788+/-0.032 χ^2/NDF : 53343.9/36

In: -7.548+/-0.030 χ^2/NDF : 218494.2/40
 Out: -7.854+/-0.030 χ^2/NDF : 275202.9/43

All: -7.700+/-0.021 χ^2/NDF : 493749.6/84

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.332 ± 0.046 $\chi^2/\text{NDF}: 4020.7/34$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.510 ± 0.044 $\chi^2/\text{NDF}: 11592.2/37$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

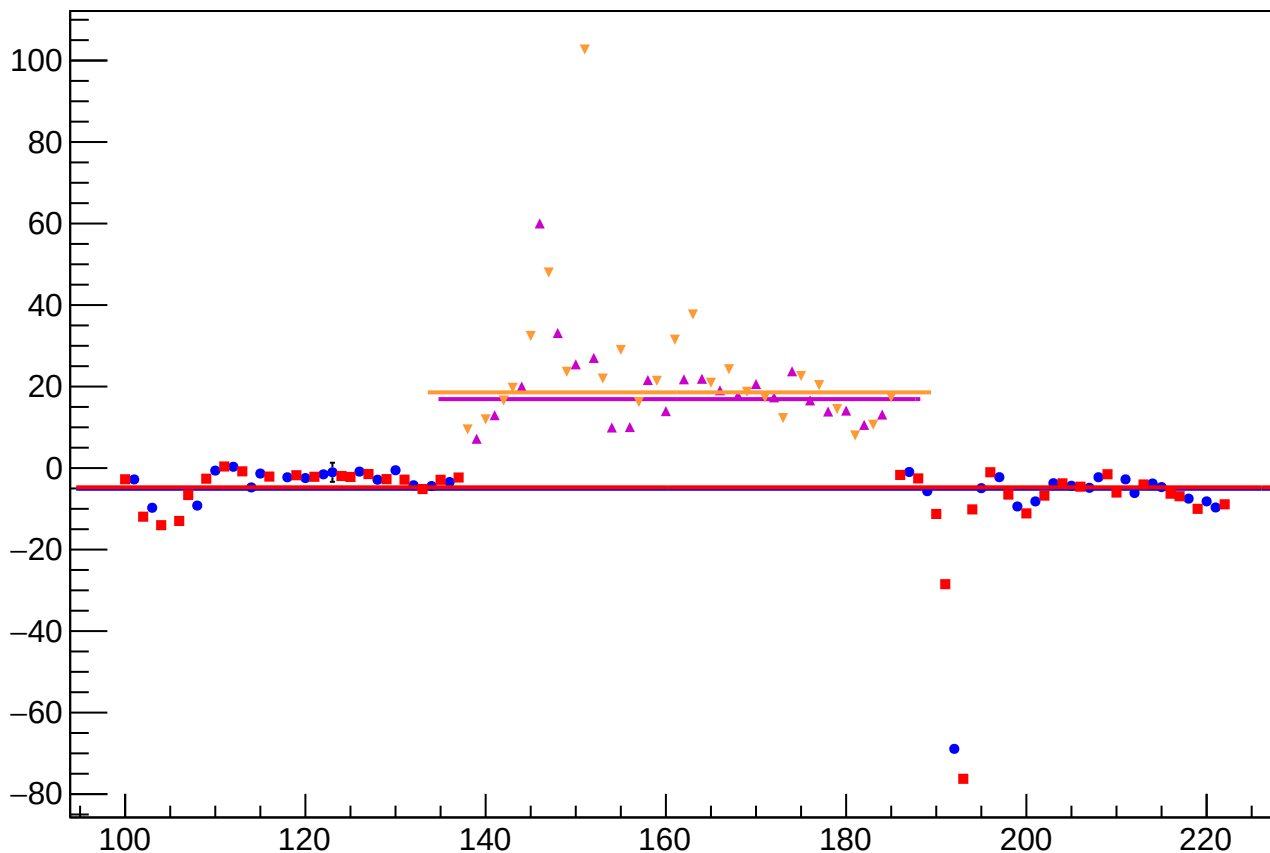
Right: 0.425 ± 0.032 $\chi^2/\text{NDF}: 15620.5/72$

In: 0.374 ± 0.026 $\chi^2/\text{NDF}: 10081.6/57$

Out: 0.561 ± 0.027 $\chi^2/\text{NDF}: 18390.8/62$

All: 0.466 ± 0.019 $\chi^2/\text{NDF}: 28497.6/120$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.077 ± 0.042 $\chi^2/\text{NDF}: 26985.7/34$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.720 ± 0.039 $\chi^2/\text{NDF}: 28382.4/37$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

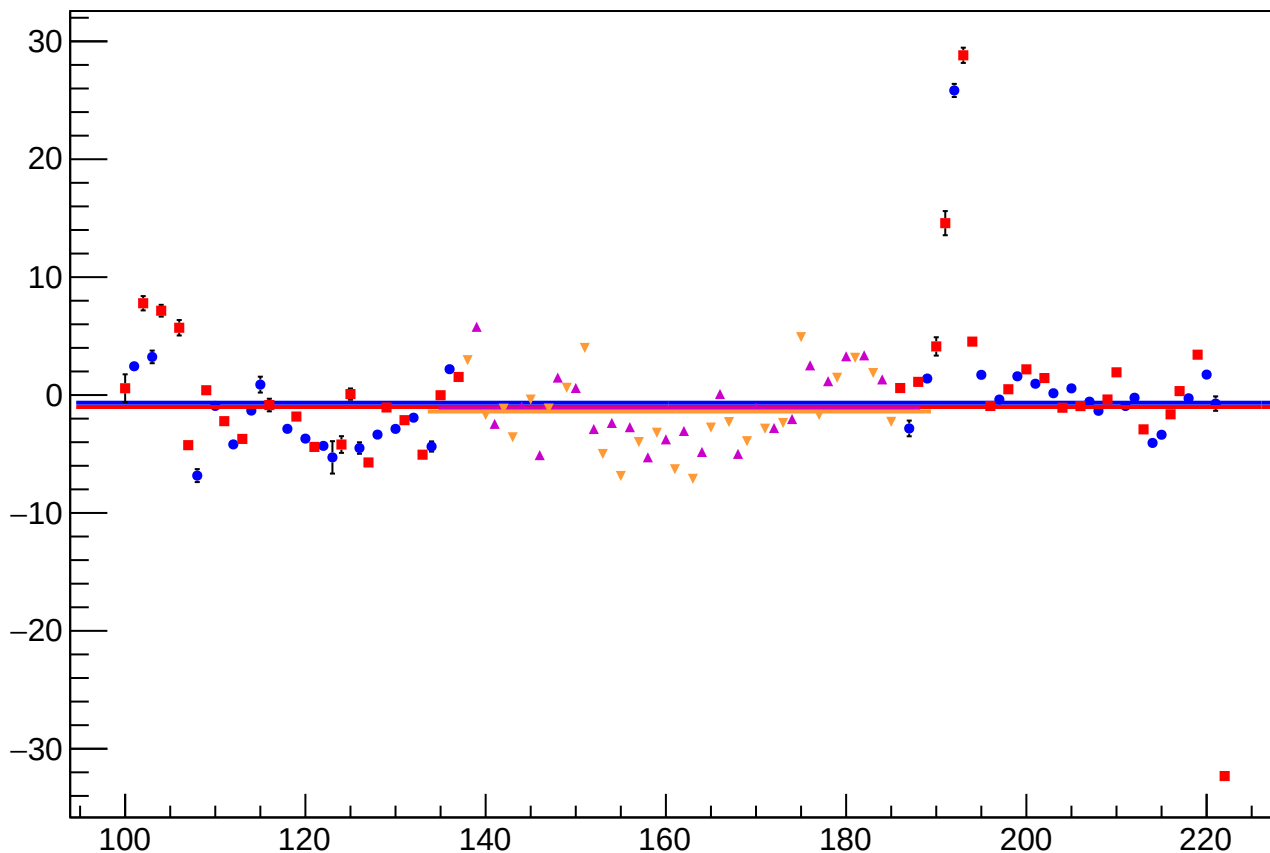
Right: -4.888 ± 0.029 $\chi^2/\text{NDF}: 55407.2/72$

In: 6.657 ± 0.028 $\chi^2/\text{NDF}: 216245.0/57$

Out: 6.611 ± 0.028 $\chi^2/\text{NDF}: 276305.9/62$

All: 6.634 ± 0.020 $\chi^2/\text{NDF}: 492552.2/120$

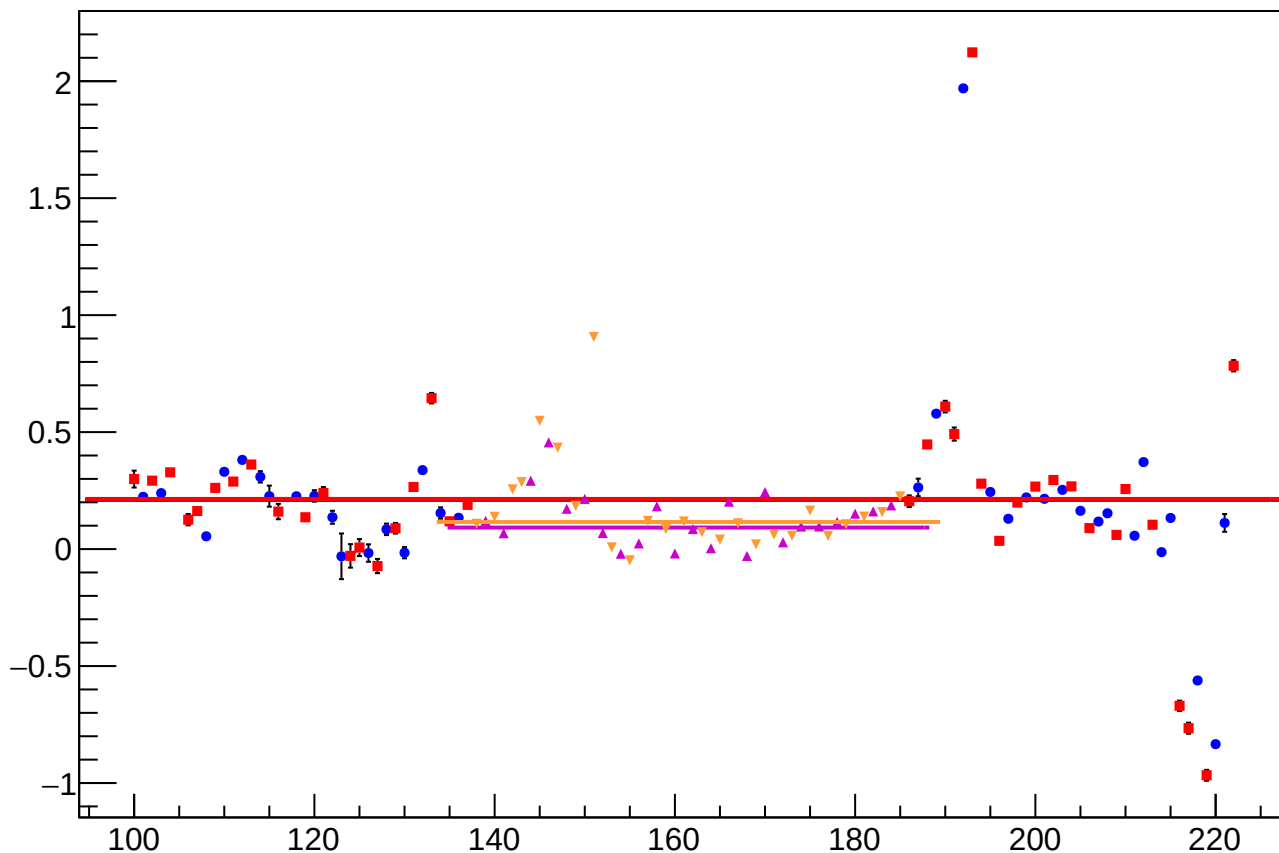
reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.650 ± 0.053 $\chi^2/\text{NDF}: 4095.3/34$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -1.013 ± 0.051 $\chi^2/\text{NDF}: 10744.9/37$
 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: -0.838 ± 0.037 $\chi^2/\text{NDF}: 14864.7/72$
 In: -0.985 ± 0.029 $\chi^2/\text{NDF}: 10751.4/57$
 Out: -1.264 ± 0.030 $\chi^2/\text{NDF}: 18433.7/62$
 All: -1.122 ± 0.021 $\chi^2/\text{NDF}: 29229.6/120$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.210 $\pm$ 0.002 χ^2 /NDF: 15327.6/34

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.214 $\pm$ 0.002 χ^2 /NDF: 18205.2/37

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

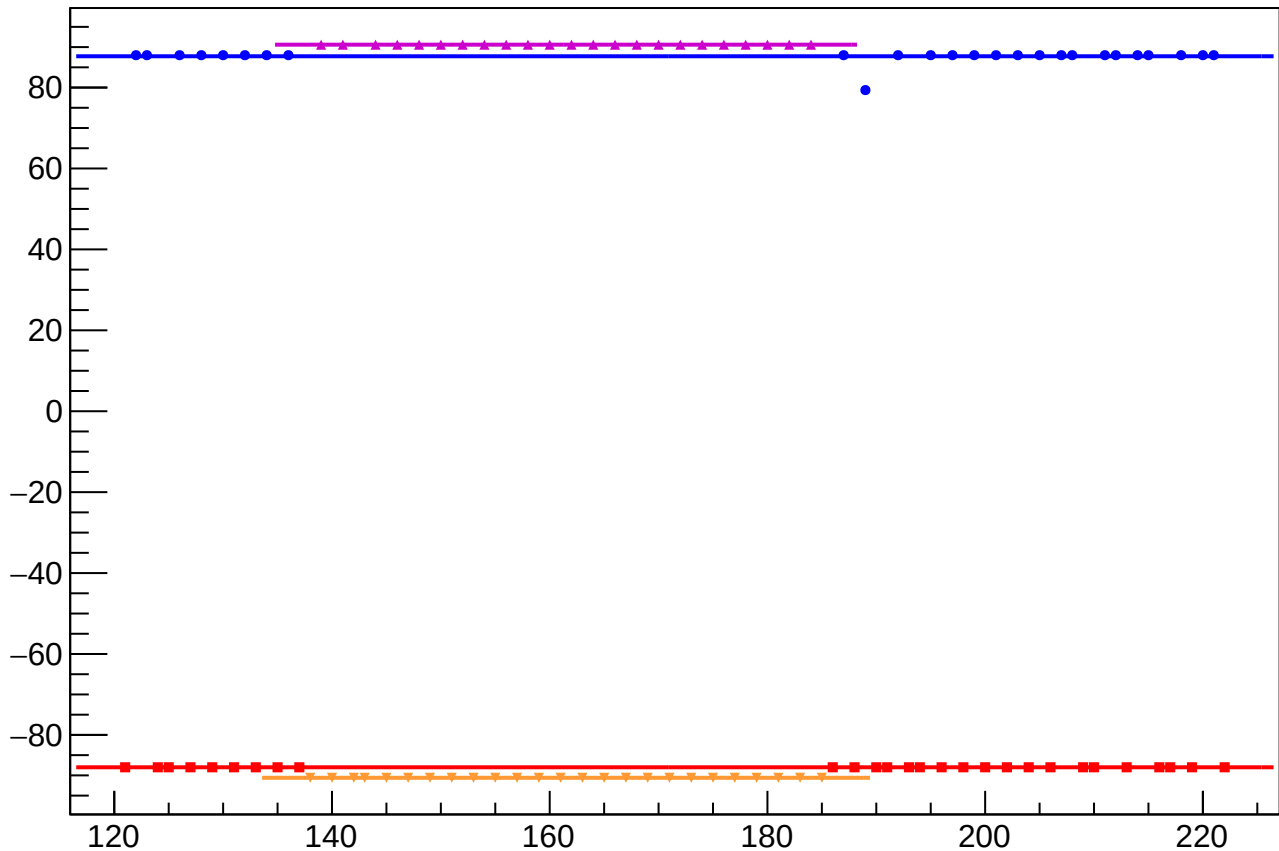
Right: 0.212 $\pm$ 0.002 χ^2 /NDF: 33534.2/72

In: 0.127 $\pm$ 0.001 χ^2 /NDF:20710.9/57

Out: 0.149 $\pm$ 0.001 χ^2 /NDF:23857.9/62

All: 0.138 $\pm$ 0.001 χ^2 /NDF: 44700.1/120

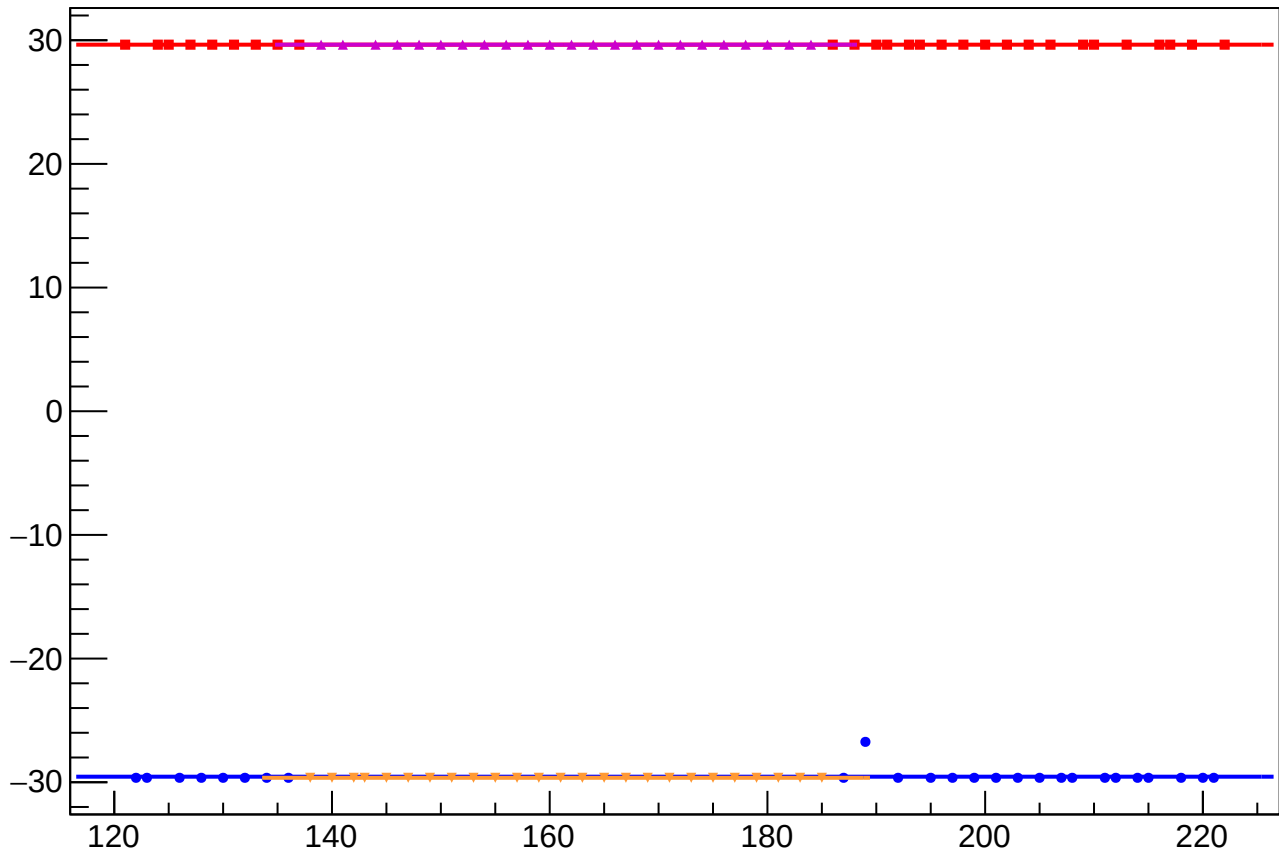
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.735 ± 0.000 χ^2/NDF : 3679016834600222525668882691129344.0/25
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 1386577.7/27
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -0.897 ± 0.000 χ^2/NDF : 2575032328953055
 In: 89.232 ± 0.000 χ^2/NDF : 107714547133020256
 Out: -89.382 ± 0.000 χ^2/NDF : 6039483649590285
 All: -1.695 ± 0.000 χ^2/NDF : 5627556416571

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.551+/-0.000

Left Out: -29.641+/-0.000

Right Out: 29.641+/-0.000

Left In: 29.641+/-0.000

χ^2/NDF : 417384669986378271763760997728256.0/25

χ^2/NDF : 654199.2/24

χ^2/NDF : 1686395.3/27

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000

Right: 0.302+/-0.000

In: 1.395+/-0.000

Out: -1.881+/-0.000

All: -0.273+/-0.000

χ^2/NDF : 32668496095314519

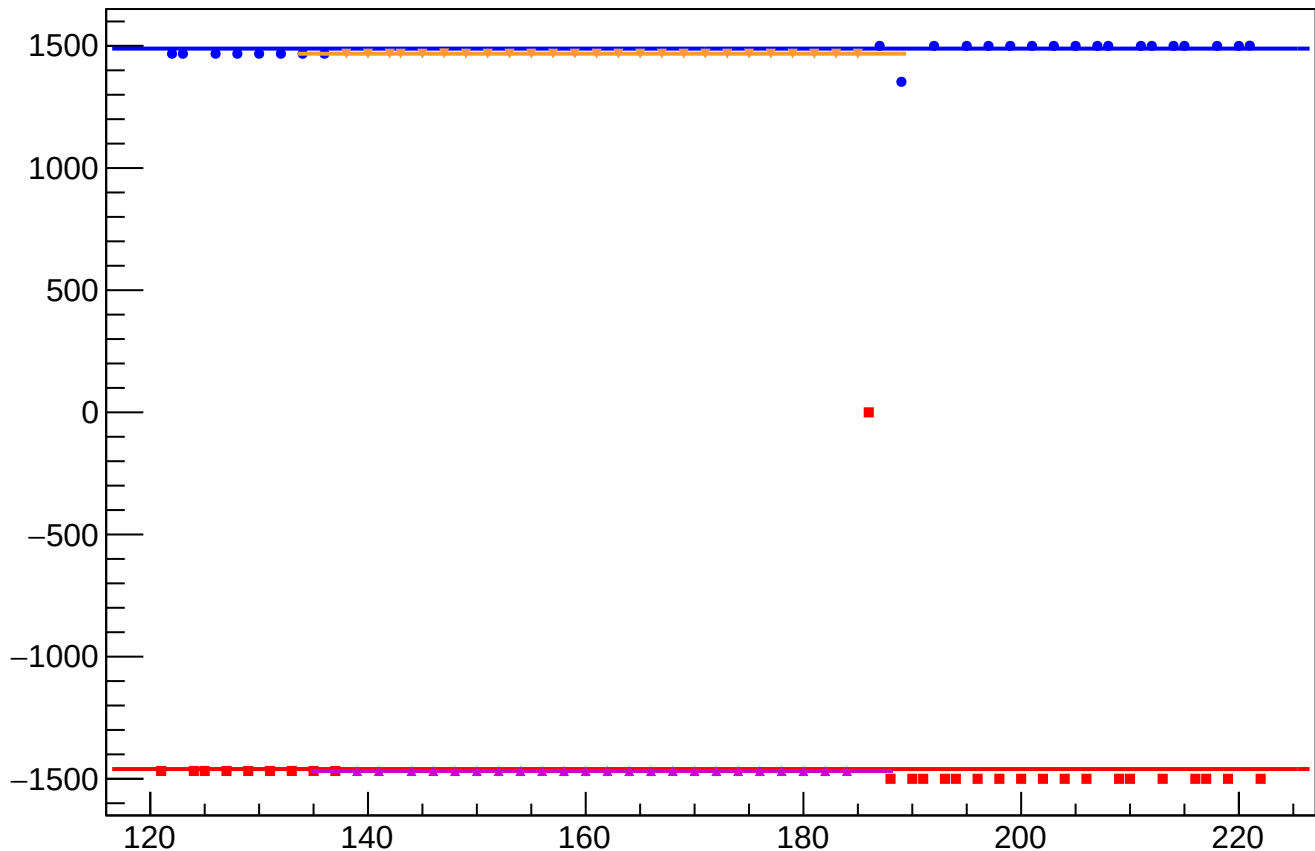
χ^2/NDF : 29213756477446221

χ^2/NDF : 3028277207175552262

χ^2/NDF : 31431132195519334

χ^2/NDF : 6190317851419

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1488.921+/-0.000

χ^2/NDF : 1247645508588085150516559863821107200.0/25

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1460.078+/-0.000

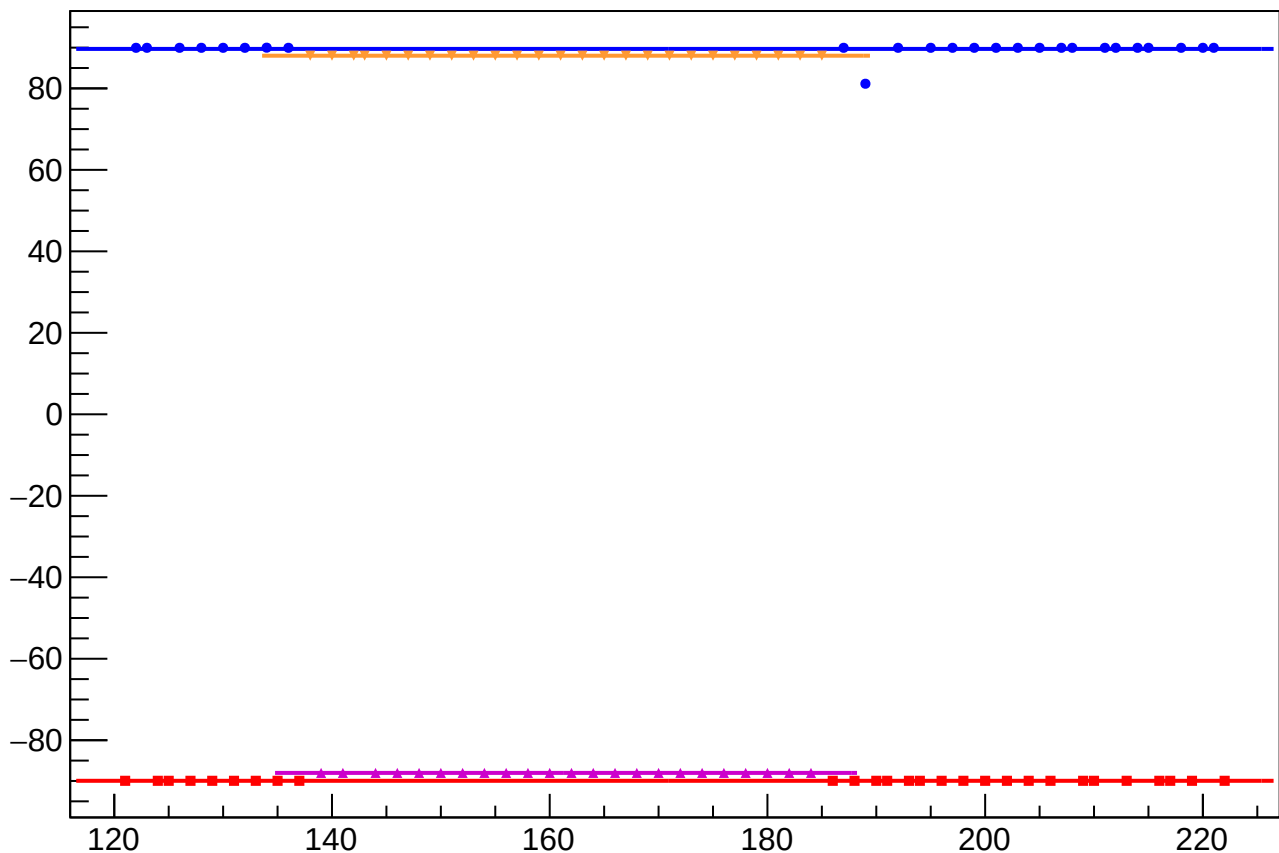
χ^2/NDF : 83143191423190477418182670028378210304.0/27

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

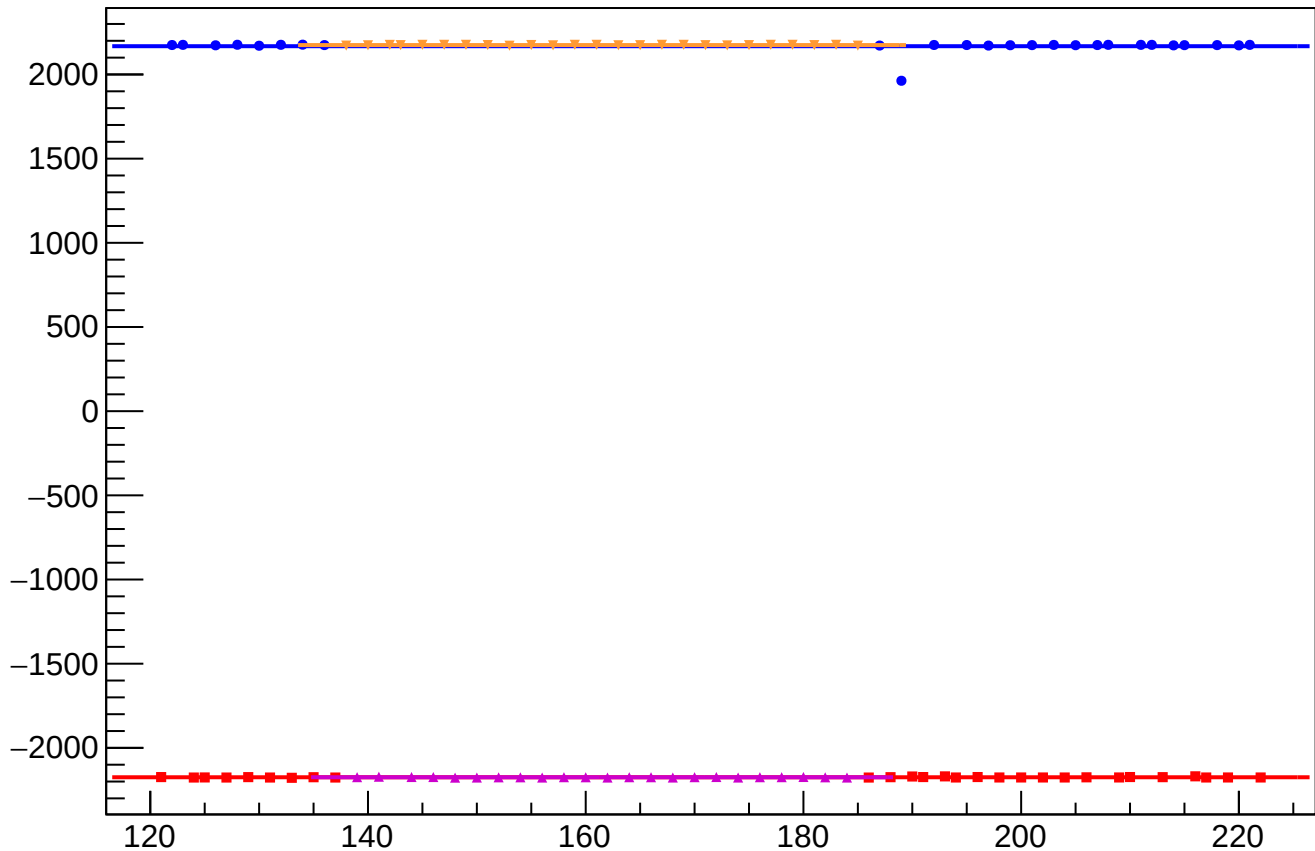
All: 21.368+/-0.000 χ^2/NDF : 1535049112113

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.688+/-0.000	χ^2/NDF : 3845004189760670431578844924215296.0/25	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -0.917+/-0.000	χ^2/NDF : 2690943271359518
Right Out: -89.959+/-0.000	χ^2/NDF : 4875034.2/27	In: -3.219+/-0.000	χ^2/NDF : 272954387181990226
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 4.679+/-0.000	χ^2/NDF : 283312303760155512
		All: 0.802+/-0.000	χ^2/NDF : 55736686584250

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2167.904+/-0.000

χ^2/NDF : 2220958343972985433435624989295378432.0/25

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.604+/-0.000

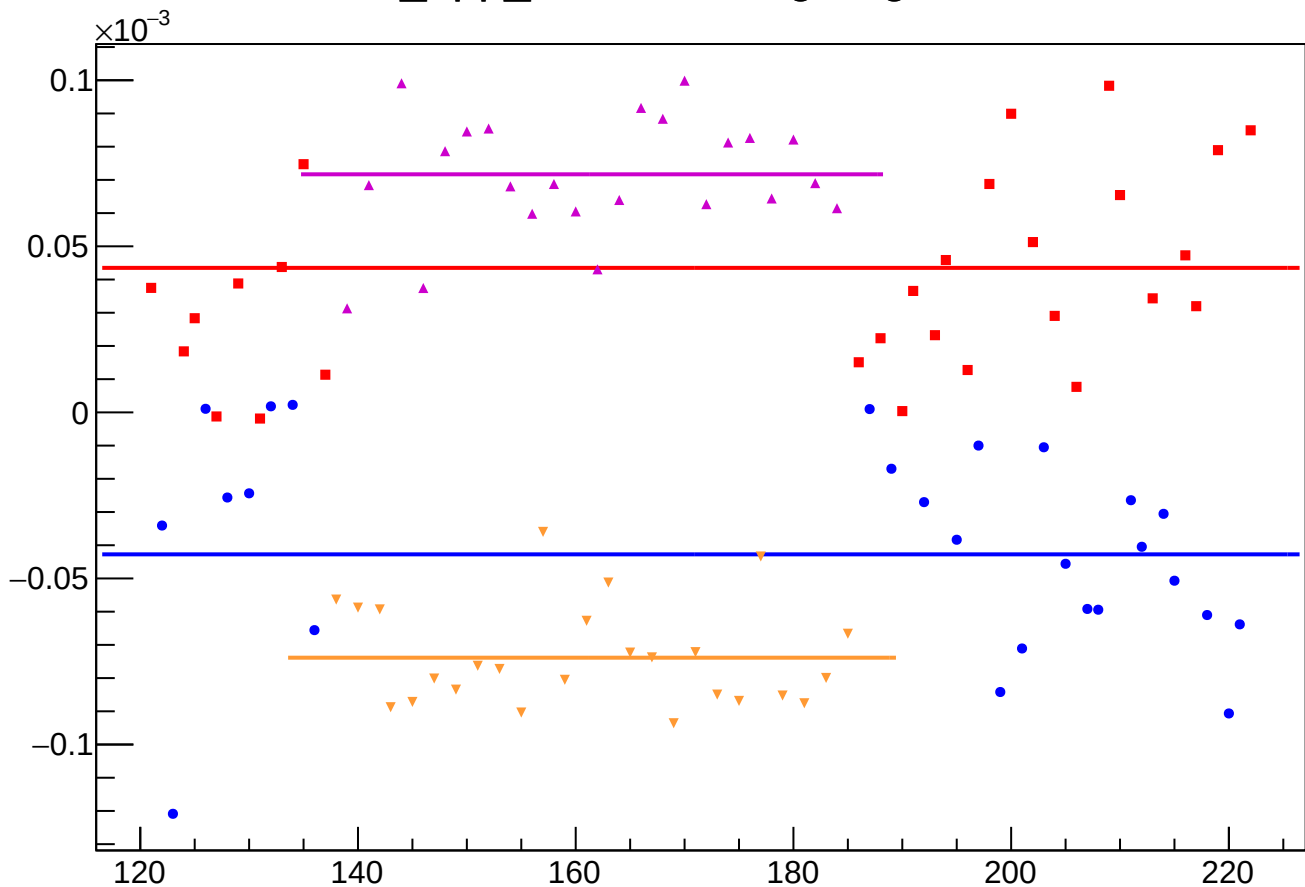
χ^2/NDF : 7429870093892946356609590780493824.0/27

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

Left: 57.898+/-0.000 χ^2/NDF : 17583418754650851.0/25
 Right: -22.230+/-0.000 χ^2/NDF : 157233763189286.0/25
 In: -102.351+/-0.000 χ^2/NDF : 1629825187152499.0/27
 Out: 138.041+/-0.000 χ^2/NDF : 1691792957768317.0/22
 All: 20.026+/-0.000 χ^2/NDF : 3331808690671.0/25

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 1100105571708730030948352.0/25

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1393068240675342716502016.0/27

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000 χ^2/NDF : 20702696564433151

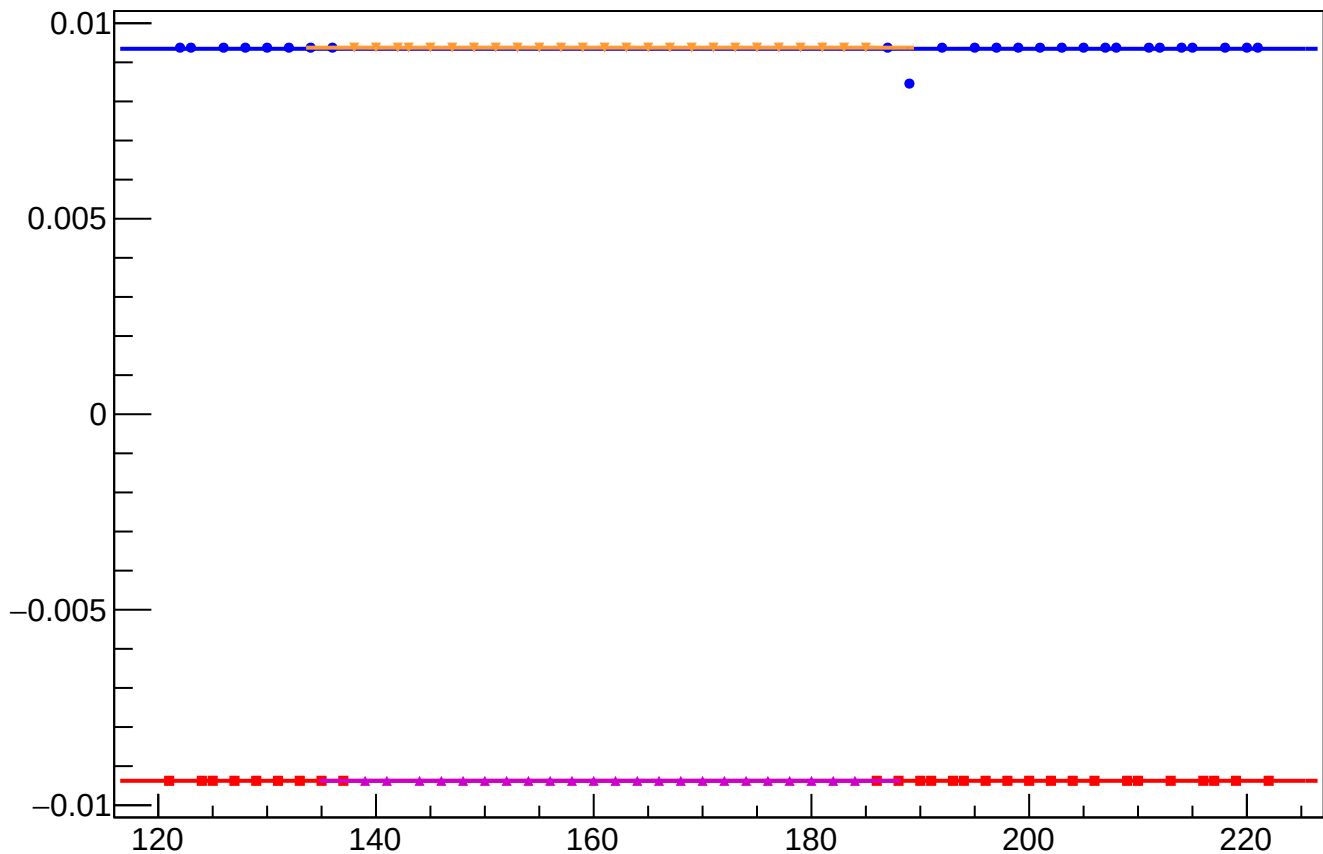
Right: 0.000+/-0.000 χ^2/NDF : 86957208241894968

In: 0.000+/-0.000 χ^2/NDF : 129771681535954843

Out: -0.000+/-0.000 χ^2/NDF : 14164027456041890

All: -0.000+/-0.000 χ^2/NDF : 2942359257091

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41754380404610877527949312.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/27

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 : 2922489465285732

In: -0.000+/-0.000

χ^2/NDF : 302943178251245168

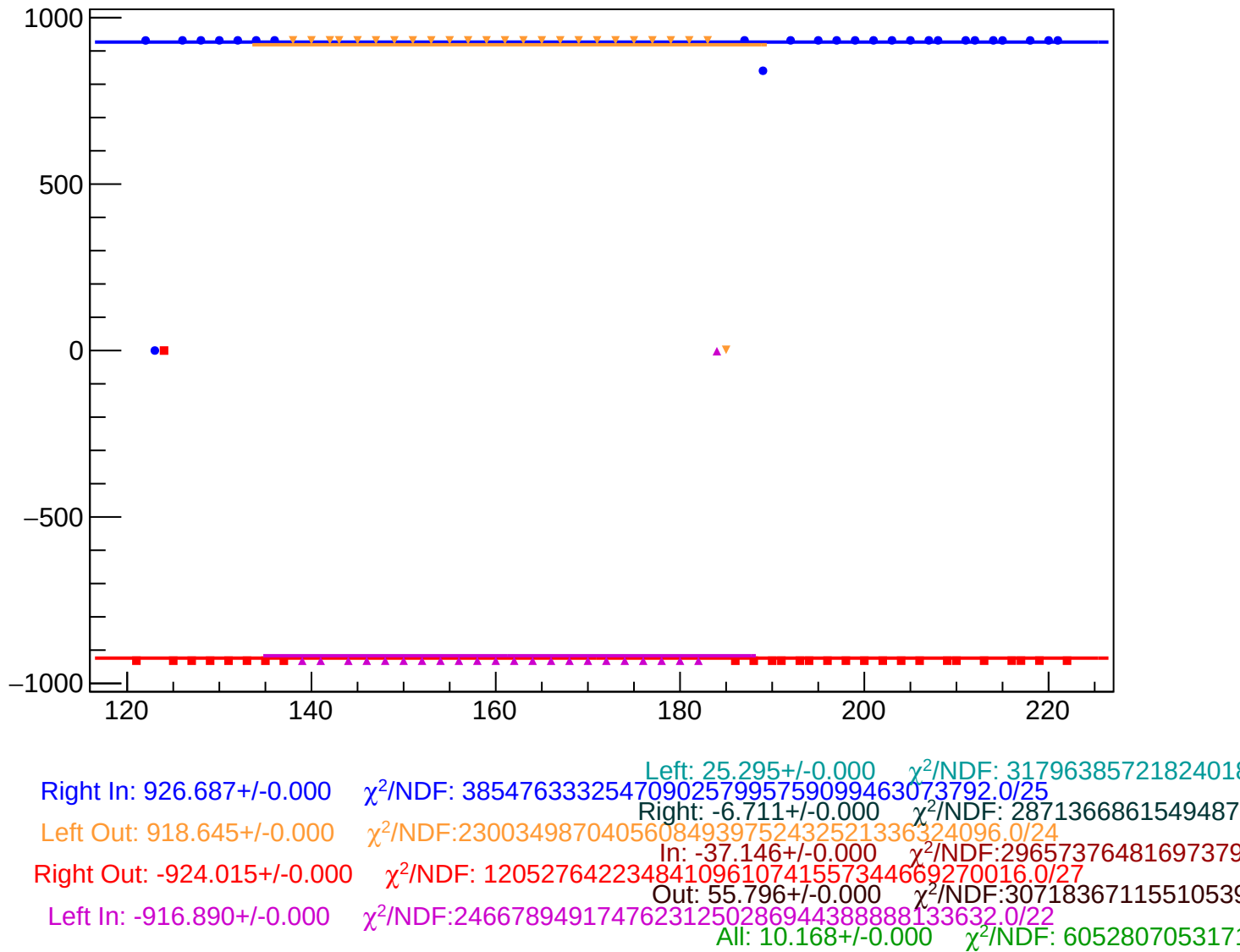
Out: 0.001+/-0.000

χ^2/NDF : 314431157781179577

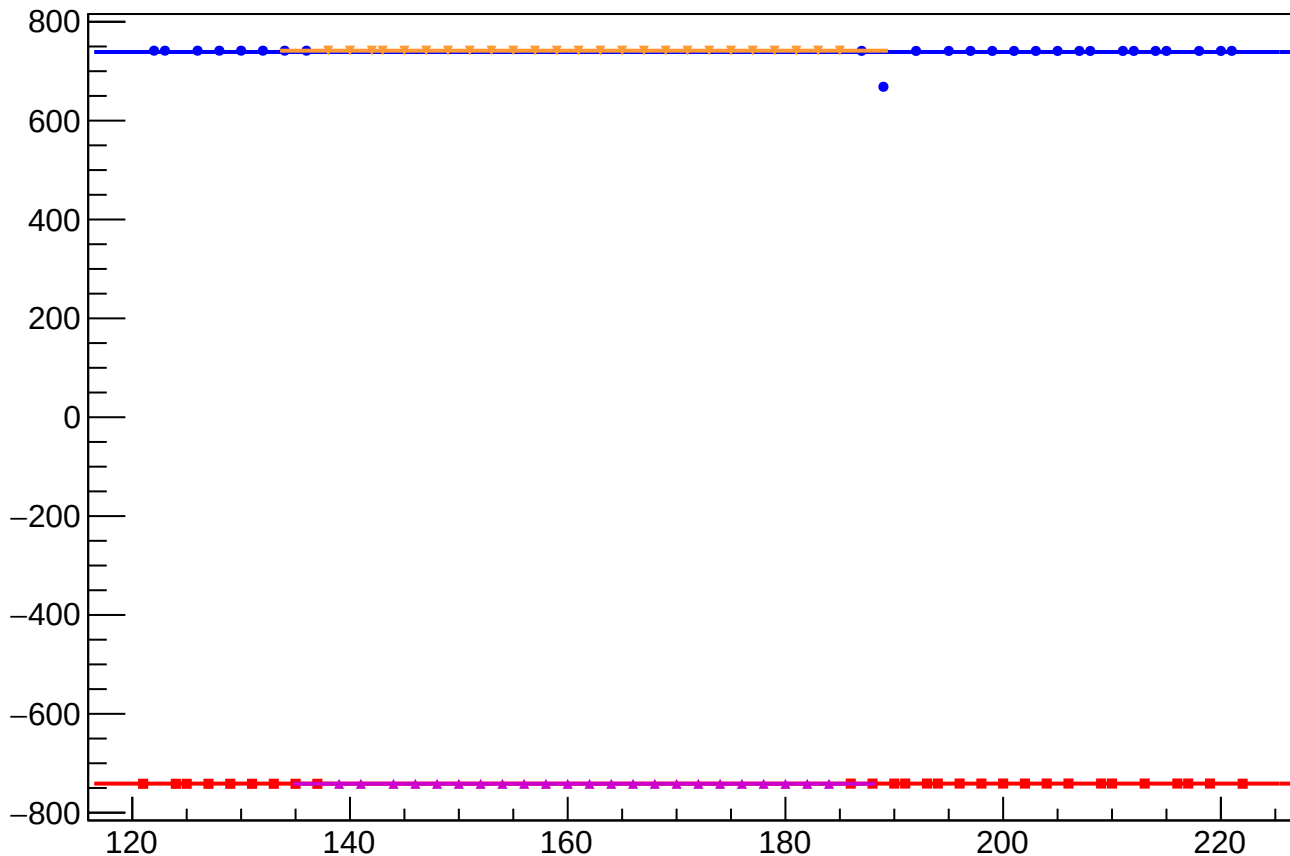
All: 0.000+/-0.000

χ^2/NDF : 61926780013763

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected

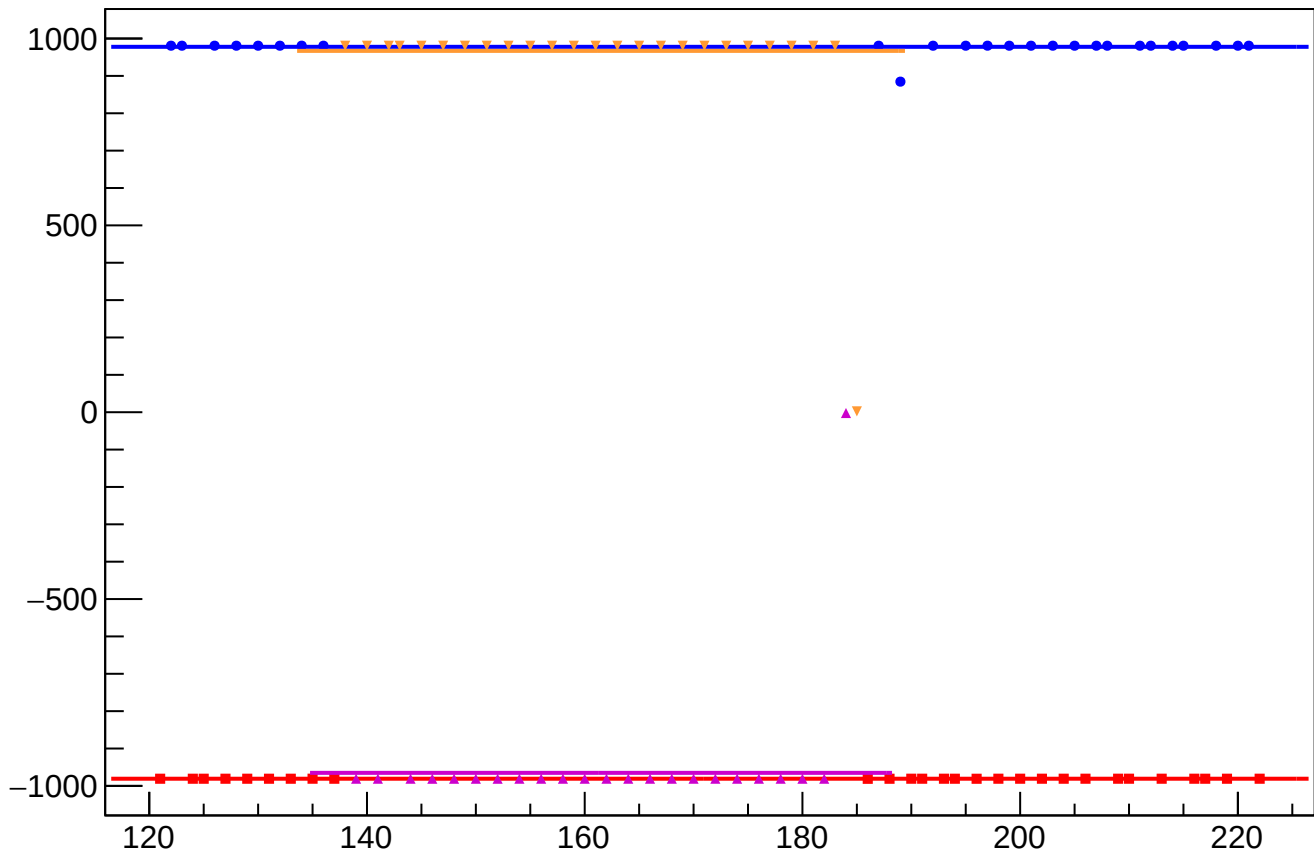


HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.896+/-0.000	χ^2/NDF : 260839444842970977708662229231992832.0/25	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -7.563+/-0.000	χ^2/NDF : 1826484207626881
Right Out: -741.151+/-0.000	χ^2/NDF : 66829894582913238435658633052160.0/27	In: -35.071+/-0.000	χ^2/NDF : 18942441939428420
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 47.236+/-0.000	χ^2/NDF : 19661136501764063
	All: 6.829+/-0.000		χ^2/NDF : 38723040300952

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.841+/-0.000

χ^2/NDF : 457115578979385294527545415697432576.0/25

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.815+/-0.000

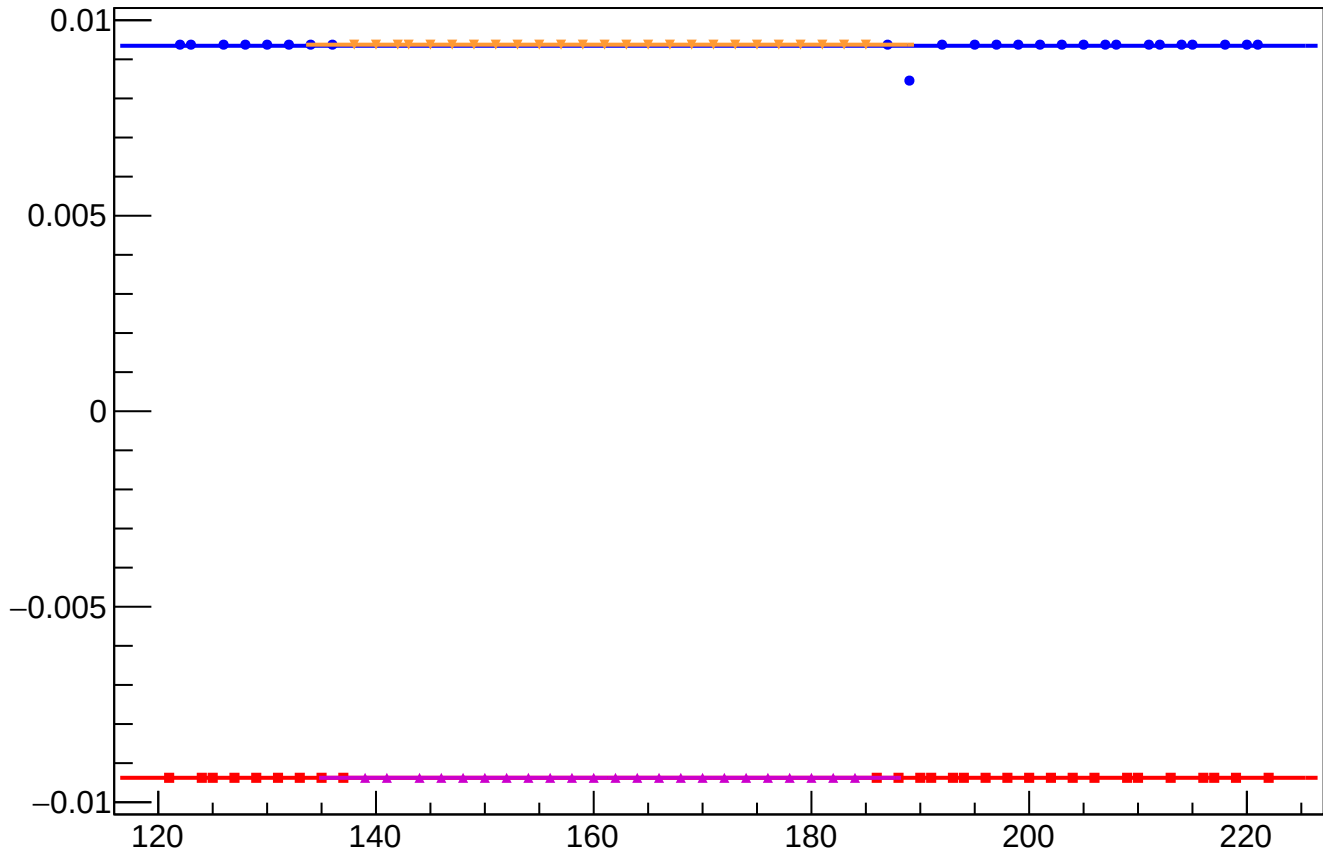
χ^2/NDF : 3546990935795615348060042821632.0/27

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 9.310+/-0.000 χ^2/NDF : 67238874419379

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41754380404610877527949312.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/27

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 : 2922489465285732

In: -0.000+/-0.000

χ^2/NDF : 302943178251245168

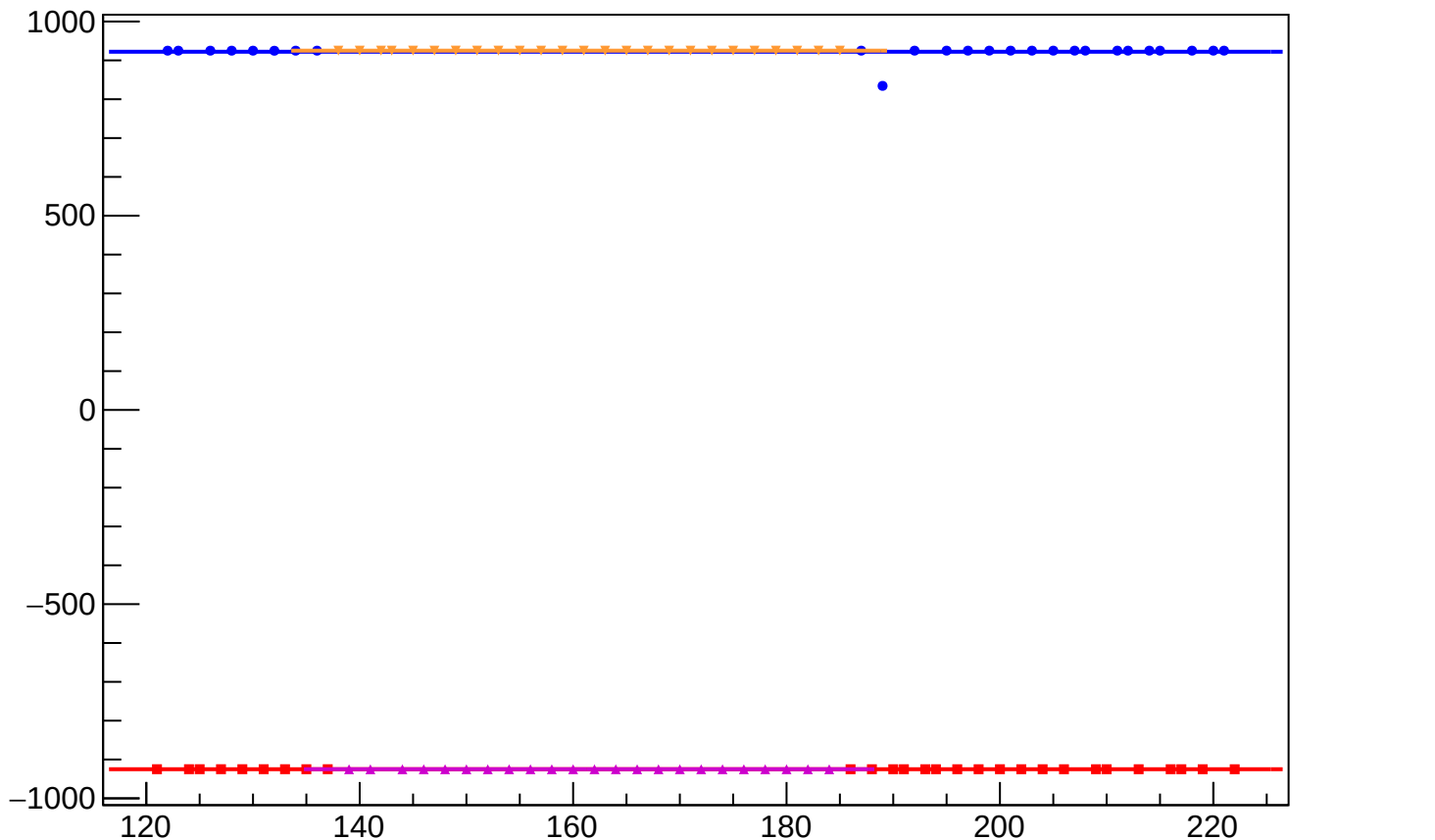
Out: 0.001+/-0.000

χ^2/NDF : 314431157781179577

All: 0.000+/-0.000

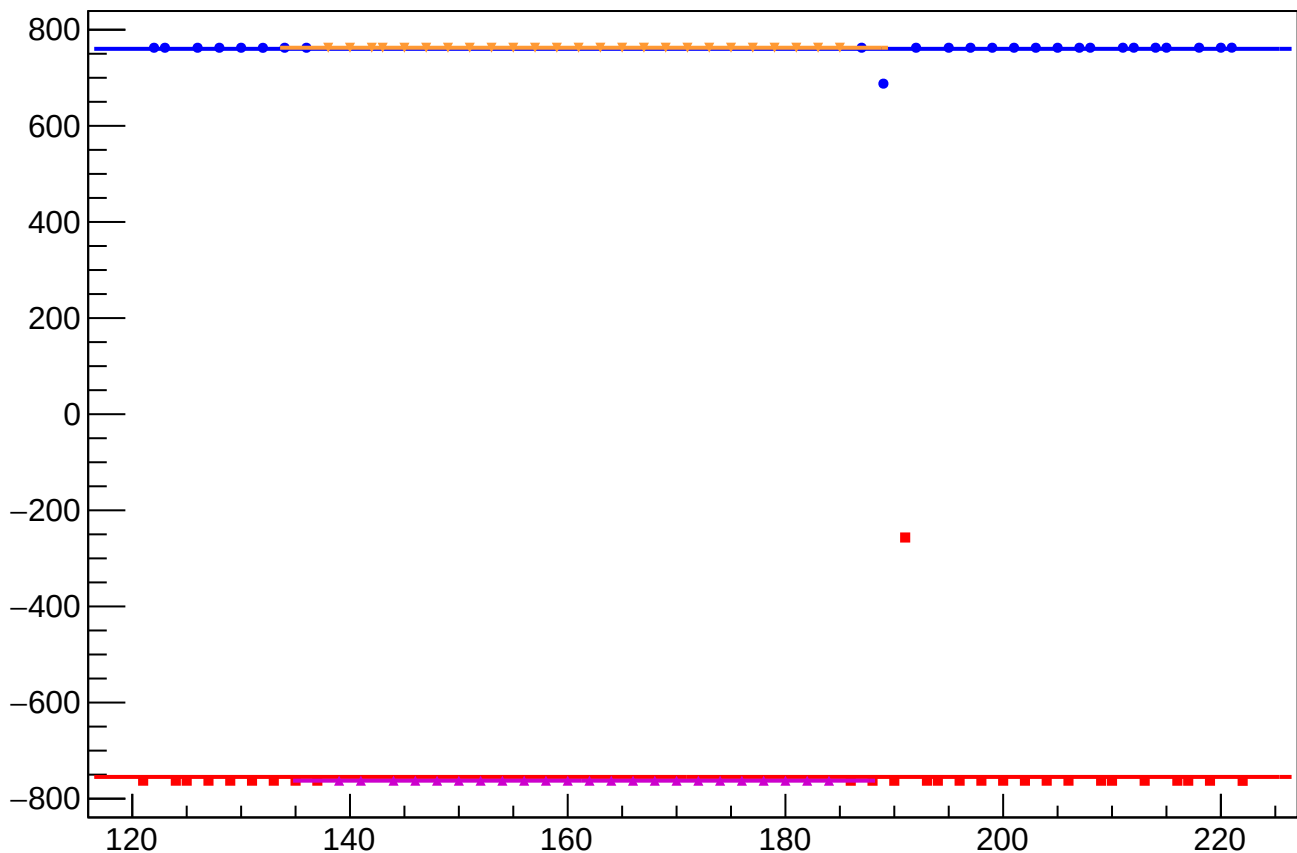
χ^2/NDF : 61926780013763

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 922.200+/-0.000 χ^2/NDF : 406213377629817701571233956042375168.0/25
 Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24
 Right Out: -925.001+/-0.000 χ^2/NDF : 973184992740320406106317783040.0/27
 Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22
 All: 8.520+/-0.000 χ^2/NDF : 60285184432968

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 760.233+/-0.000

χ^2/NDF : 276005777170244675890737120653869056.0/25

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -754.734+/-0.000

χ^2/NDF : 6554165810304852772308358919866023936.0/27

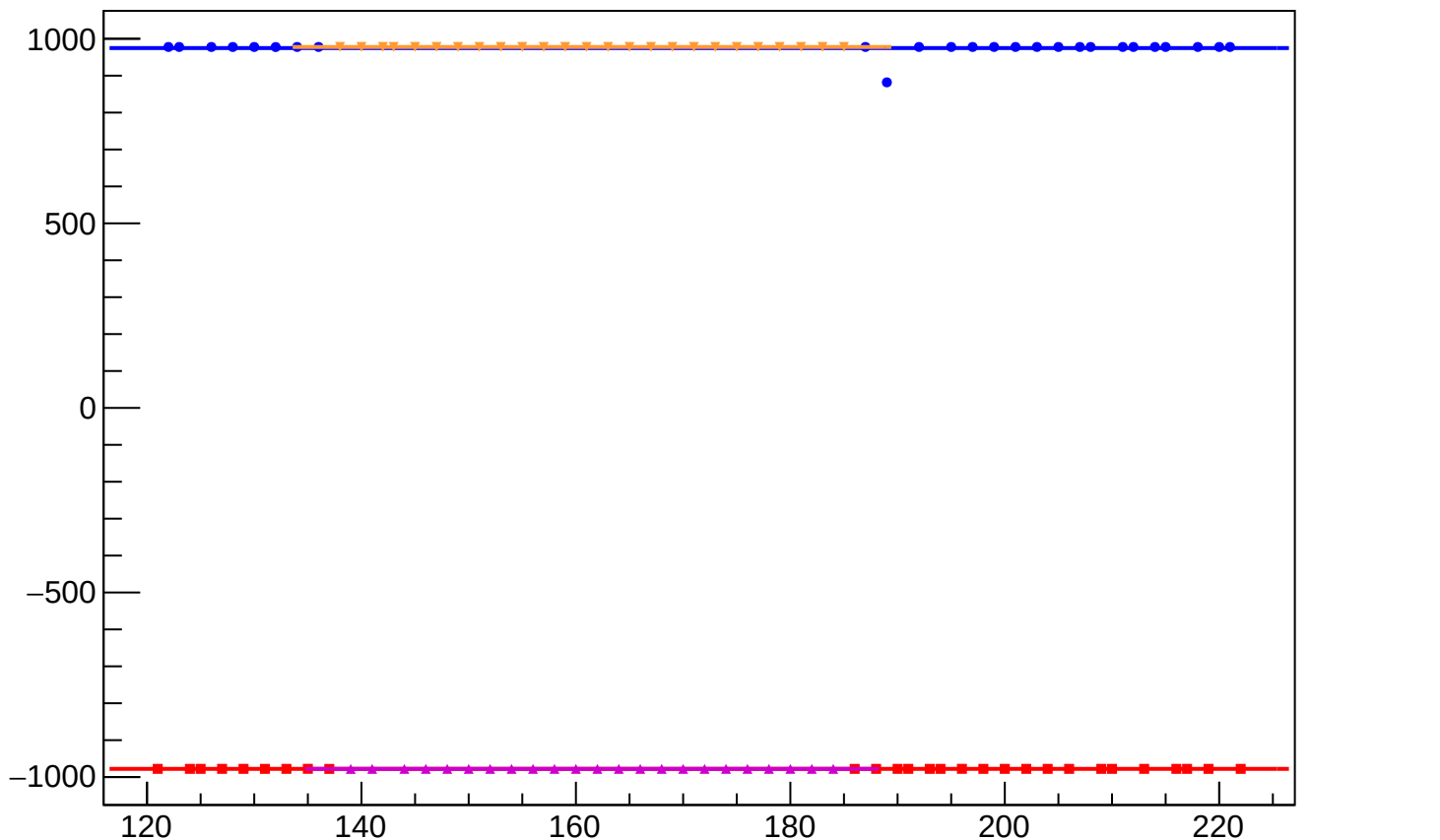
Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

All: 8.885+/-0.000

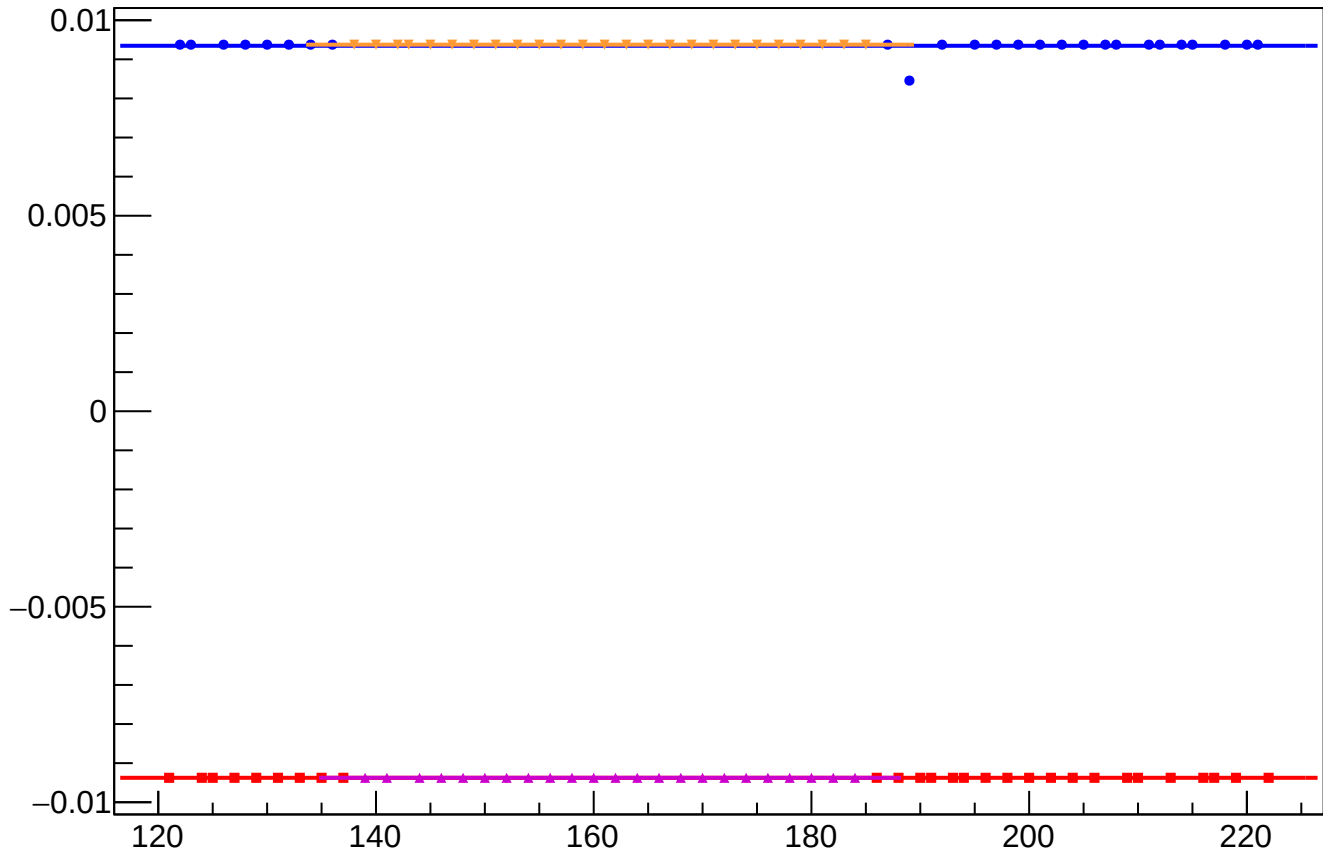
χ^2/NDF : 40832568126270

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.804+/-0.000	χ^2/NDF : 454007493890890147232947338041360384.0/25	Left: 26.015+/-0.000	χ^2/NDF : 35546397150663117
Left Out: 977.738+/-0.000	χ^2/NDF : 1154150409979077132991401558016.0/24	Right: -9.966+/-0.000	χ^2/NDF : 3178882323759013
Right Out: -977.758+/-0.000	χ^2/NDF : 1862006548192555197437333995520.0/27	In: -45.995+/-0.000	χ^2/NDF : 32951294797728711
Left In: -977.735+/-0.000	χ^2/NDF : 976503887937607318263199432704.0/22	Out: 62.052+/-0.000	χ^2/NDF : 34200830240756234
	All: 9.008+/-0.000		χ^2/NDF : 6735798969676

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41754380404610877527949312.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/27

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 : 2922489465285732

In: -0.000+/-0.000

χ^2/NDF : 302943178251245168

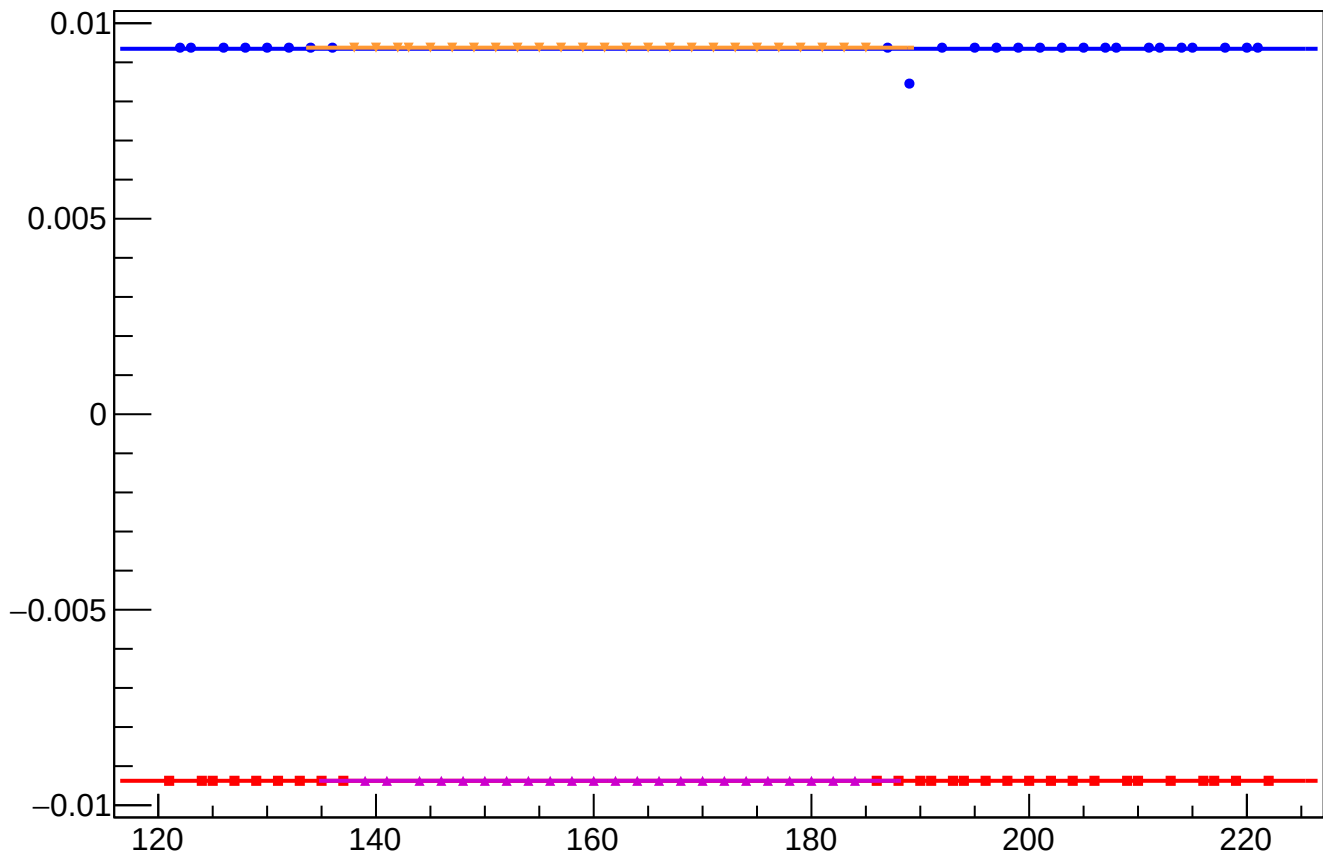
Out: 0.001+/-0.000

χ^2/NDF : 314431157781179577

All: 0.000+/-0.000

χ^2/NDF : 61926780013763

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41754380404610877527949312.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/27

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 : 2922489465285732

In: -0.000+/-0.000

χ^2/NDF : 302943178251245168

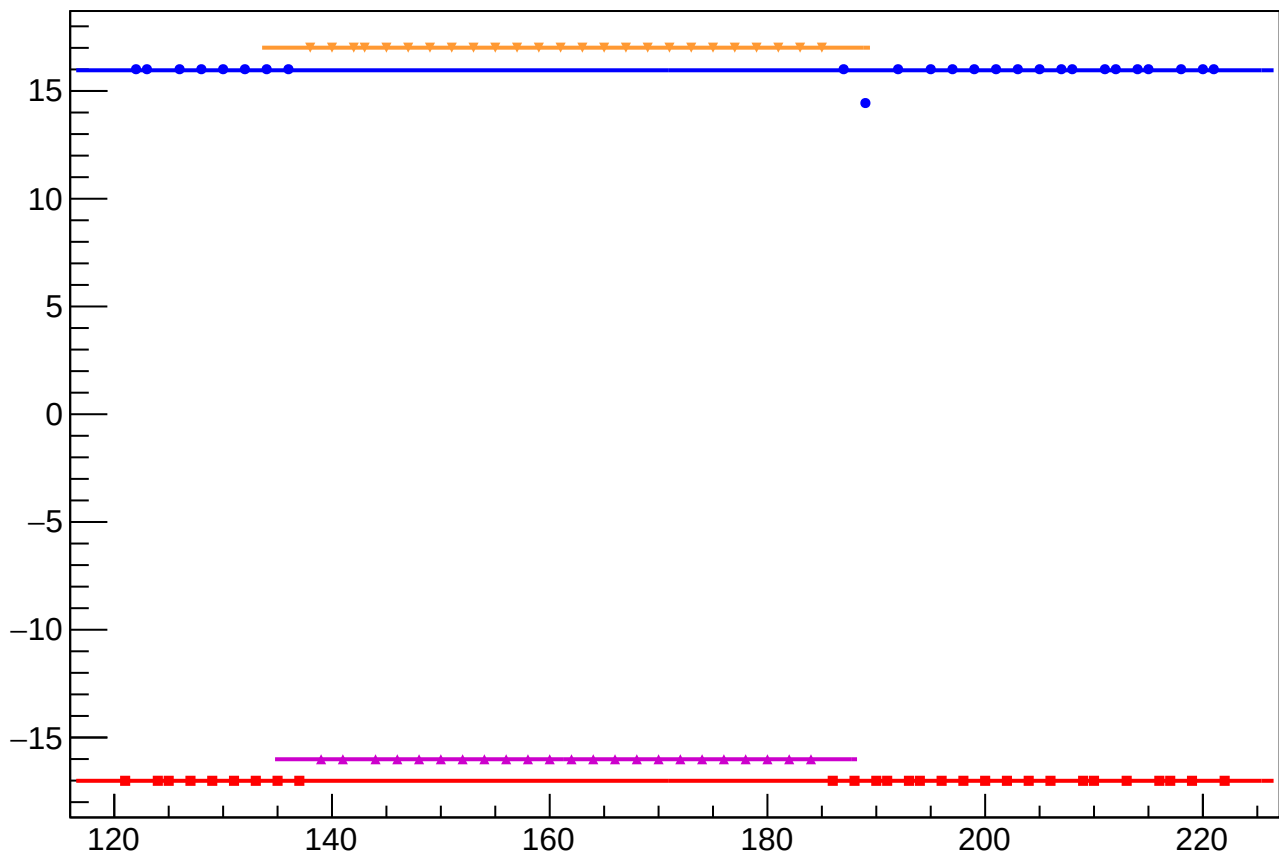
Out: 0.001+/-0.000

χ^2/NDF : 314431157781179577

All: 0.000+/-0.000

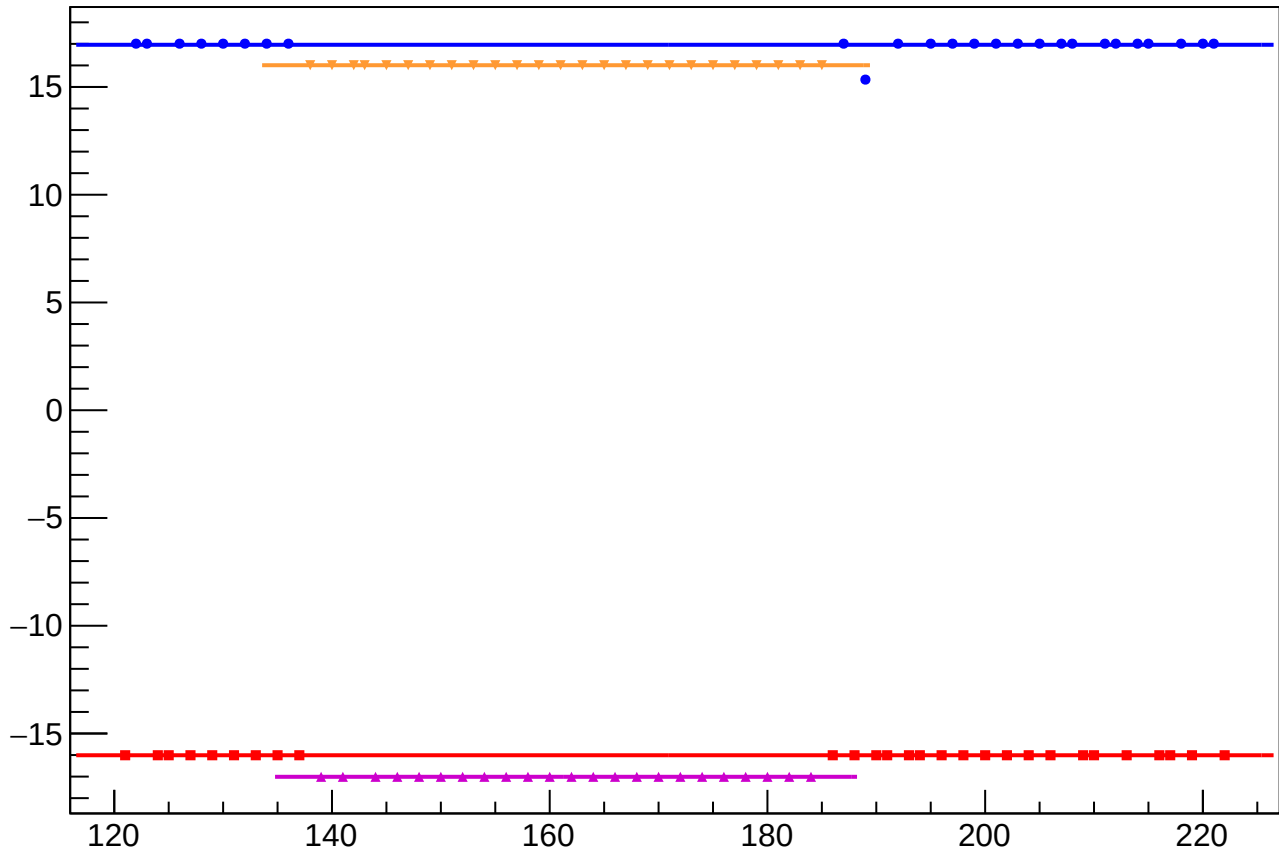
χ^2/NDF : 61926780013763

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



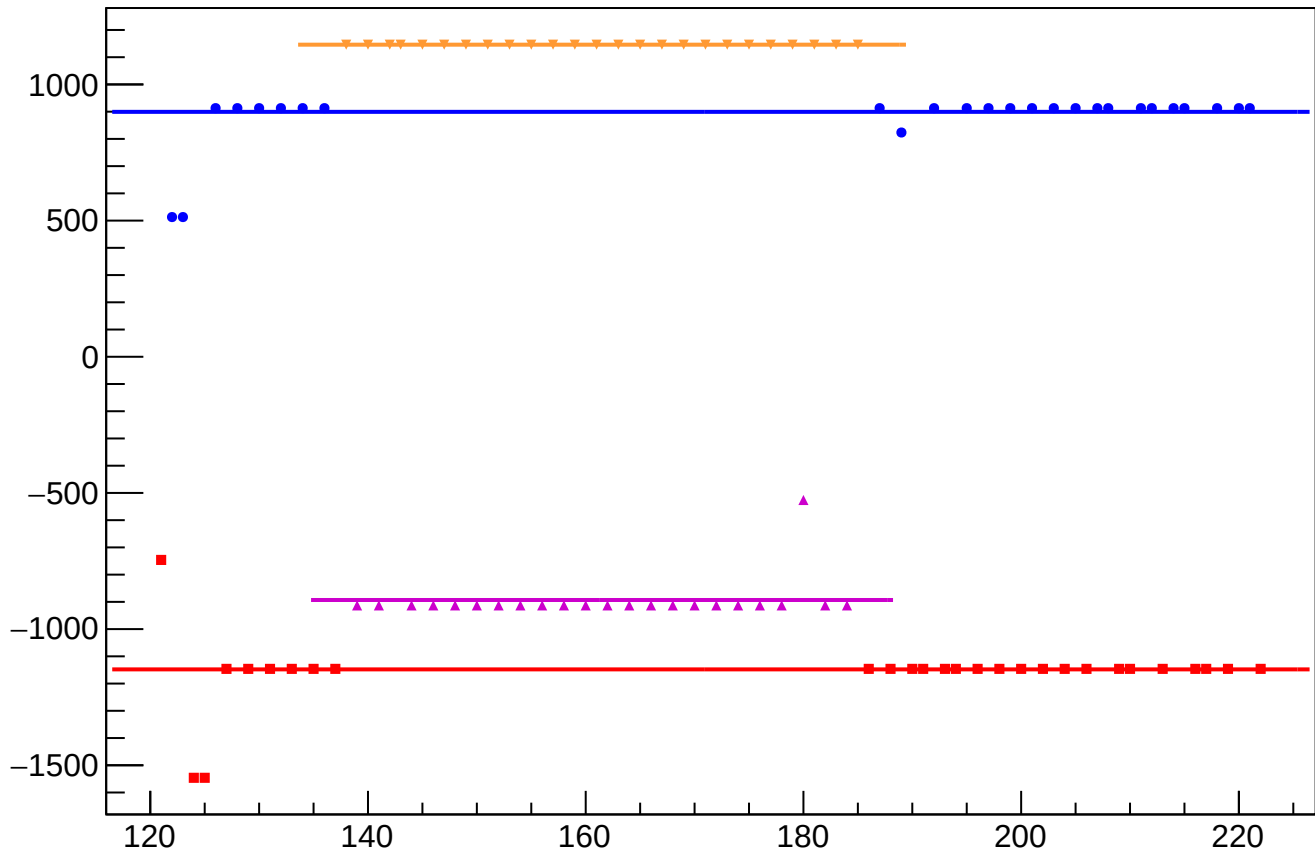
Right In: 15.960 ± 0.000 $\chi^2/\text{NDF}: 121697991374373375214646758211584.0/25$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 18810444464002771571441664.0/27$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.130 ± 0.000 $\chi^2/\text{NDF}: 18413373723741$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



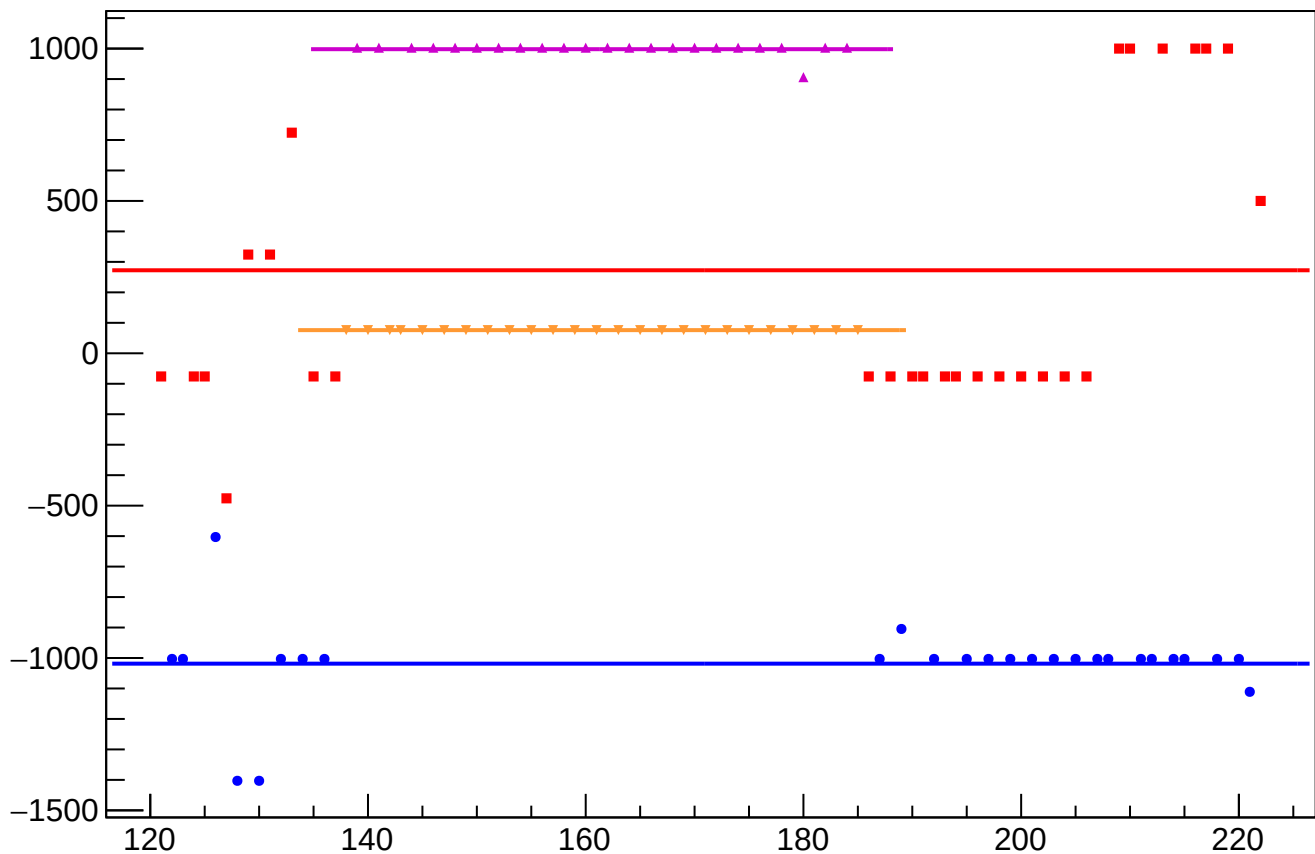
Right In: 16.958 $\pm$ 0.000 χ^2 /NDF: 137446172117079411735218714836992.0/25
 Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89740.8/24
 Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 324316.5/27
 Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22
 Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 99431233770062905
 Right: 0.331 $\pm$ 0.000 χ^2 /NDF: 90622380554121849
 In: -0.587 $\pm$ 0.000 χ^2 /NDF: 985250992435289047
 Out: 0.915 $\pm$ 0.000 χ^2 /NDF: 911489312120192780
 All: 0.180 $\pm$ 0.000 χ^2 /NDF: 19006811877120

RTPAPOSUCNT_mean vs Slug, Sign Corrected



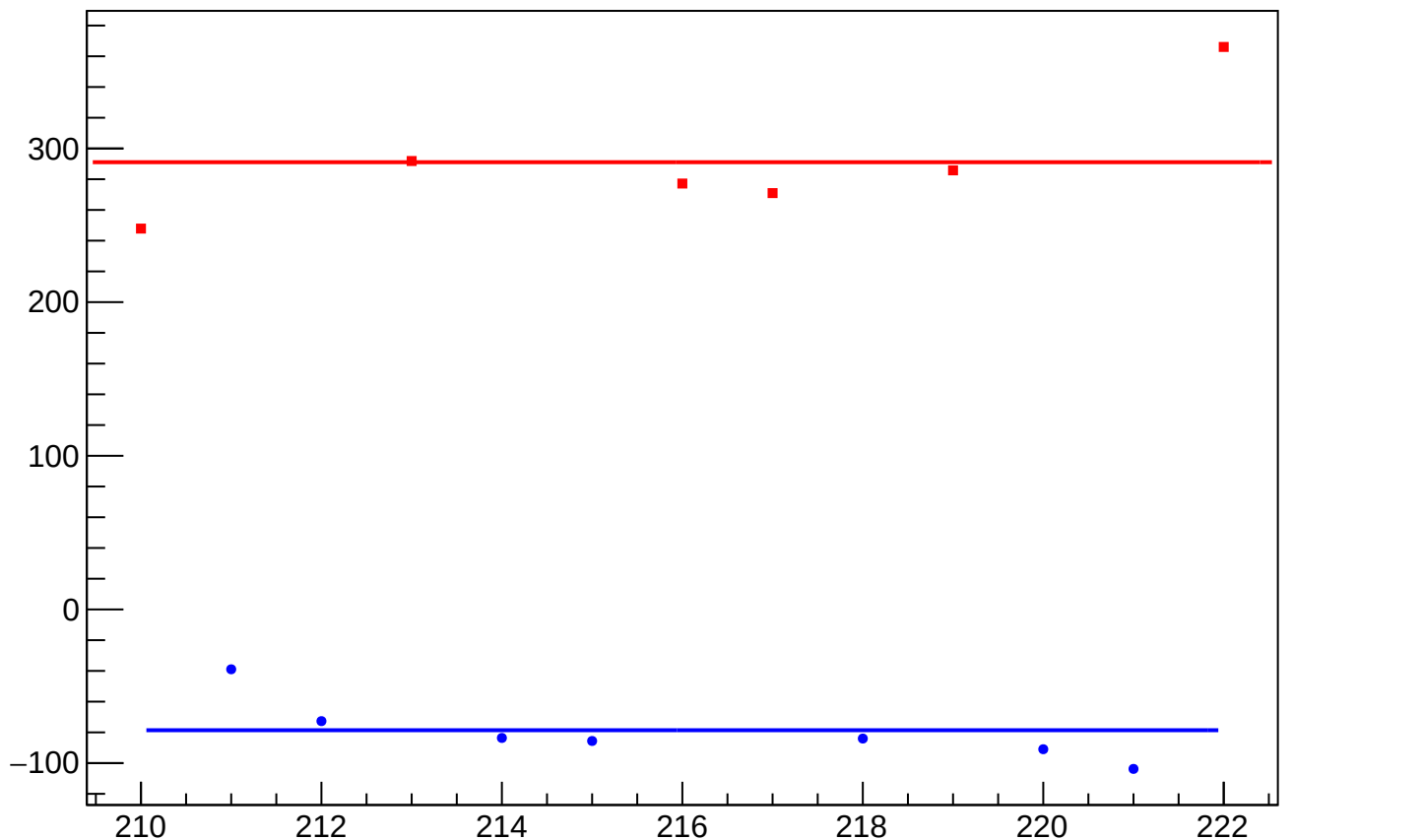
Right In: 899.343+/-0.000 χ^2/NDF : 7300630087033299654464367711894896640.0/25
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1147.912+/-0.000 χ^2/NDF : 13754579422090387458352600679635222528.0/27
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 18.038+/-0.000 χ^2/NDF : 7538368742283

RTPAPOSVCNT_mean vs Slug, Sign Corrected



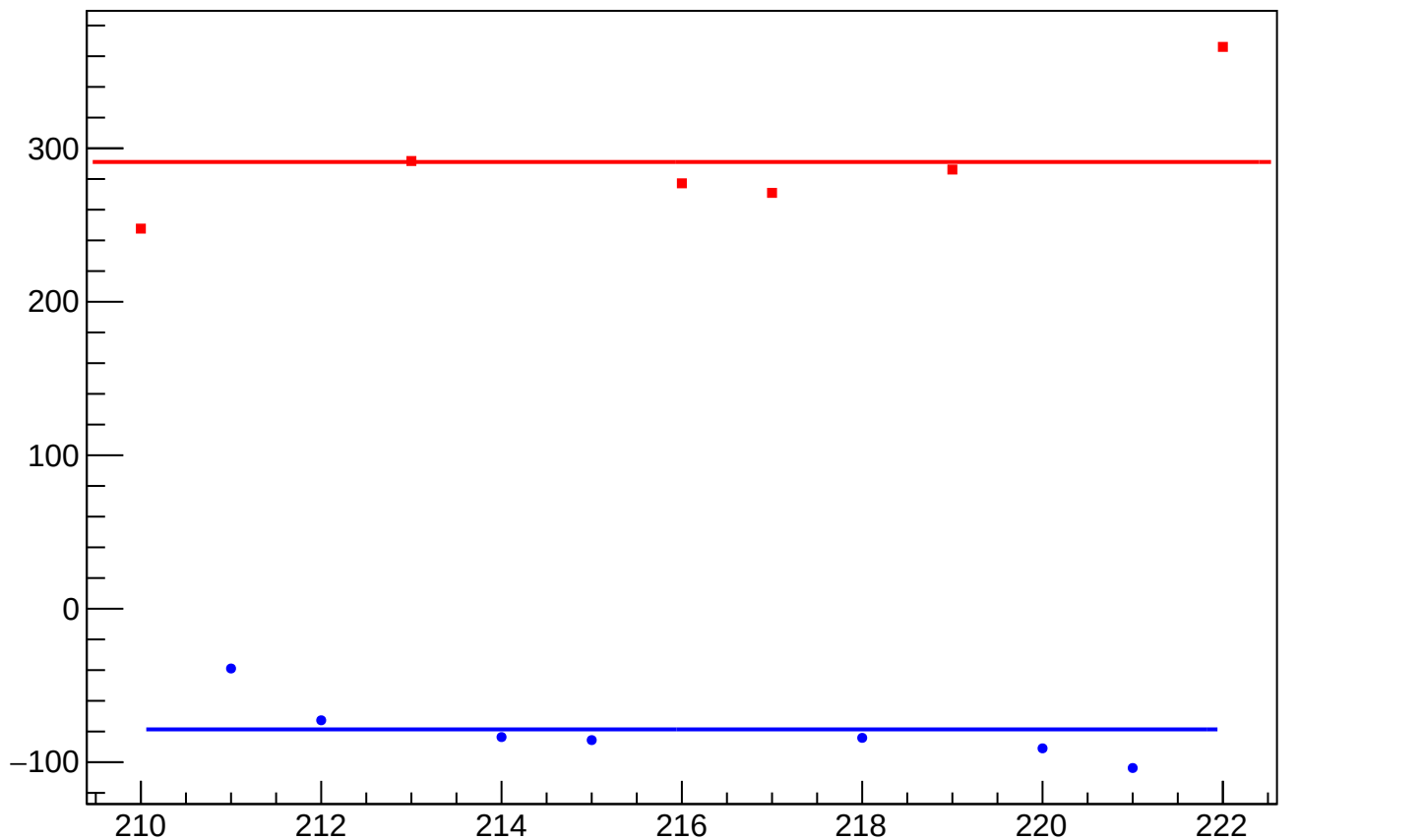
Right In: -1018.559 ± 0.000 $\chi^2/\text{NDF}: 23805323481454850854856926816418922496.0/25$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11003263624957134120836661248.0/24$
 Right Out: 272.450 ± 0.000 $\chi^2/\text{NDF}: 397621094168612816582923745593856622592.0/27$
 Left In: 998.020 ± 0.000 $\chi^2/\text{NDF}: 826231736084035689068445378231140352.0/22$
 All: 103.058 ± 0.000 $\chi^2/\text{NDF}: 400195939886$

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: -78.597 ± 0.000 $\chi^2/\text{NDF}: 172383595230941264121754610971967488.0/6$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 291.069 ± 0.000 $\chi^2/\text{NDF}: 638758094671964513255567354130071552.0/5$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 96.928 ± 0.000 $\chi^2/\text{NDF}: 3396783271075921$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -78.615 ± 0.000 $\chi^2/\text{NDF}: 172484080600979476798655214062141440.0/6$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 291.093 ± 0.000 $\chi^2/\text{NDF}: 639569226255436854814075772110635008.0/5$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 96.929 ± 0.000 $\chi^2/\text{NDF}: 3397611902607916$