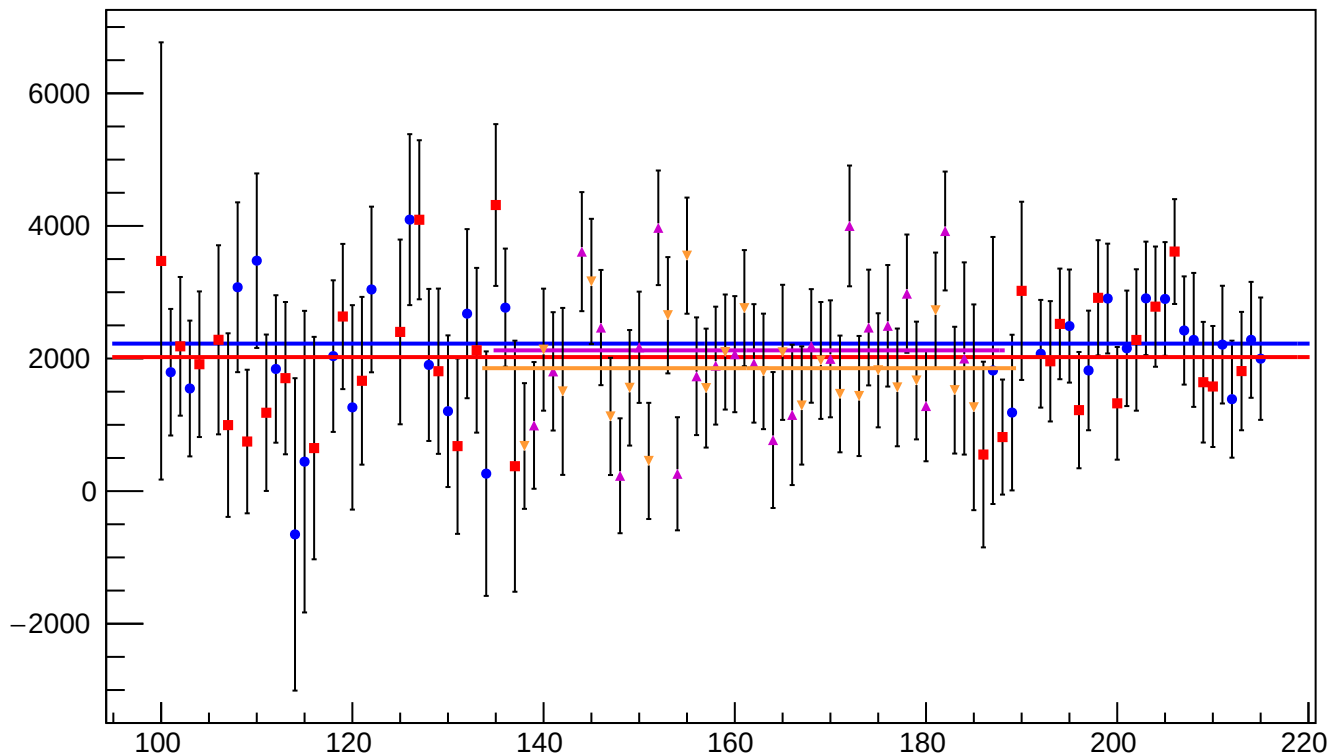


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2224.933+/-186.817

Left Out: 1854.267+/-187.405

Right Out: 2021.592+/-190.957

Left In: 2123.138+/-188.684

χ^2/NDF : 13.8/30

χ^2/NDF : 15.1/23

χ^2/NDF : 24.0/31

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2125.490+/-133.539

In: 2174.542+/-132.755

Out: 1936.359+/-133.754

All: 2056.343+/-94.223

χ^2/NDF : 48.1/46

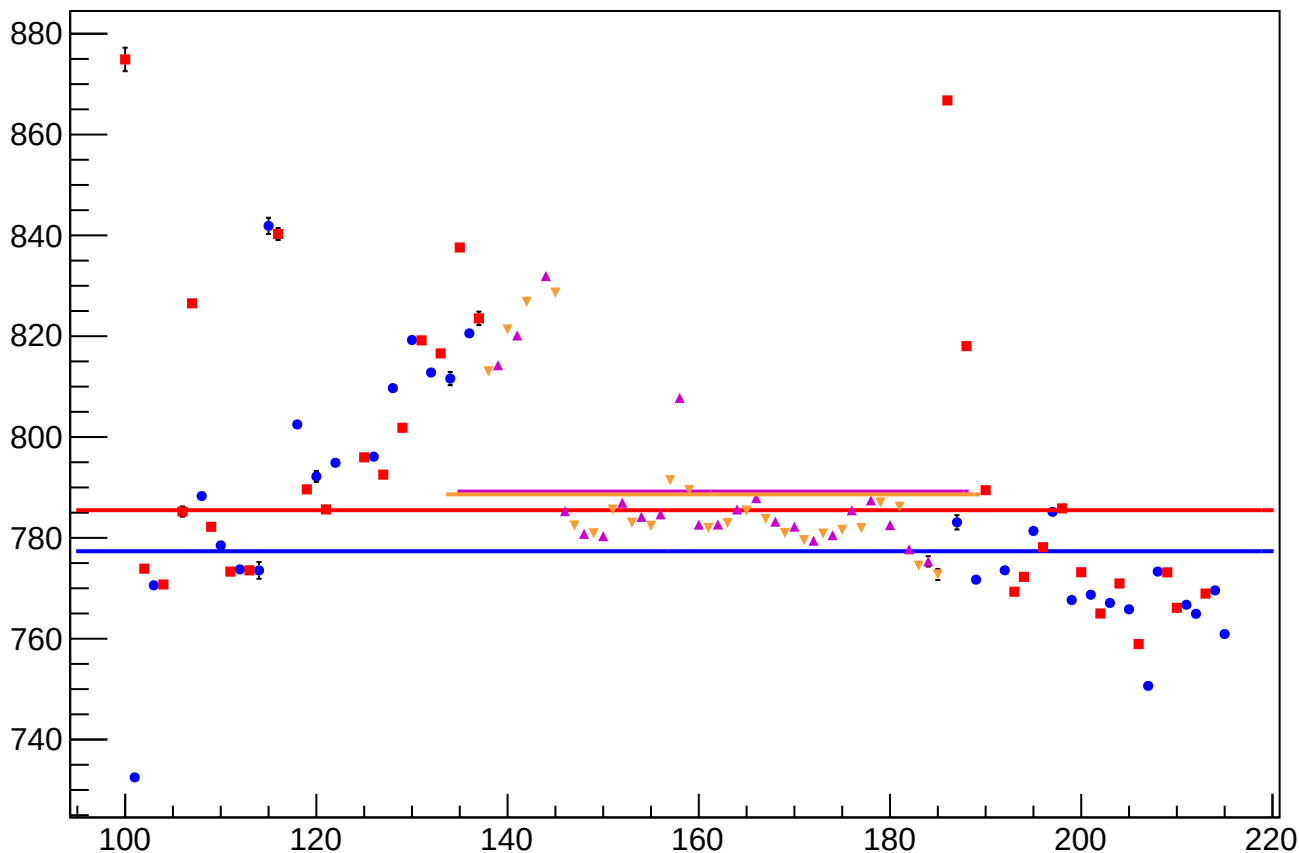
χ^2/NDF : 38.4/62

χ^2/NDF : 45.9/53

χ^2/NDF : 39.5/55

χ^2/NDF : 87.1/109

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 777.356 $\pm$ 0.132 χ^2 /NDF: 24540.5/30

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

Right Out: 785.490 $\pm$ 0.135 χ^2 /NDF: 30702.1/31

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

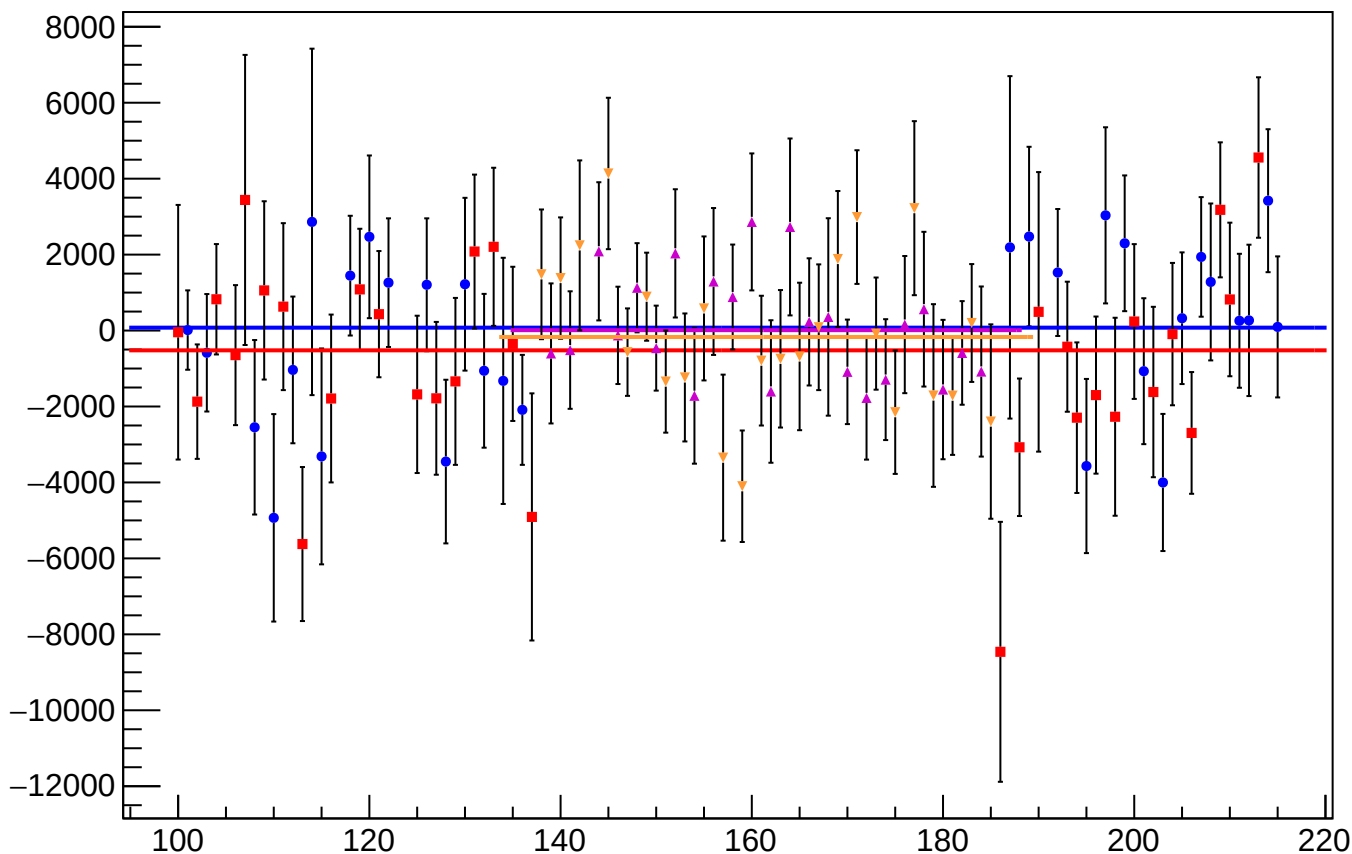
Right: 781.333 $\pm$ 0.094 χ^2 /NDF: 57096.8/62

In: 783.211 $\pm$ 0.094 χ^2 /NDF:39853.2/53

Out: 787.089 $\pm$ 0.095 χ^2 /NDF:42455.6/55

All: 785.136 $\pm$ 0.067 χ^2 /NDF: 83155.5/109

asym_us_avg_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -521.102 $\pm$ 358.233 χ^2/NDF : 39.4/31

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

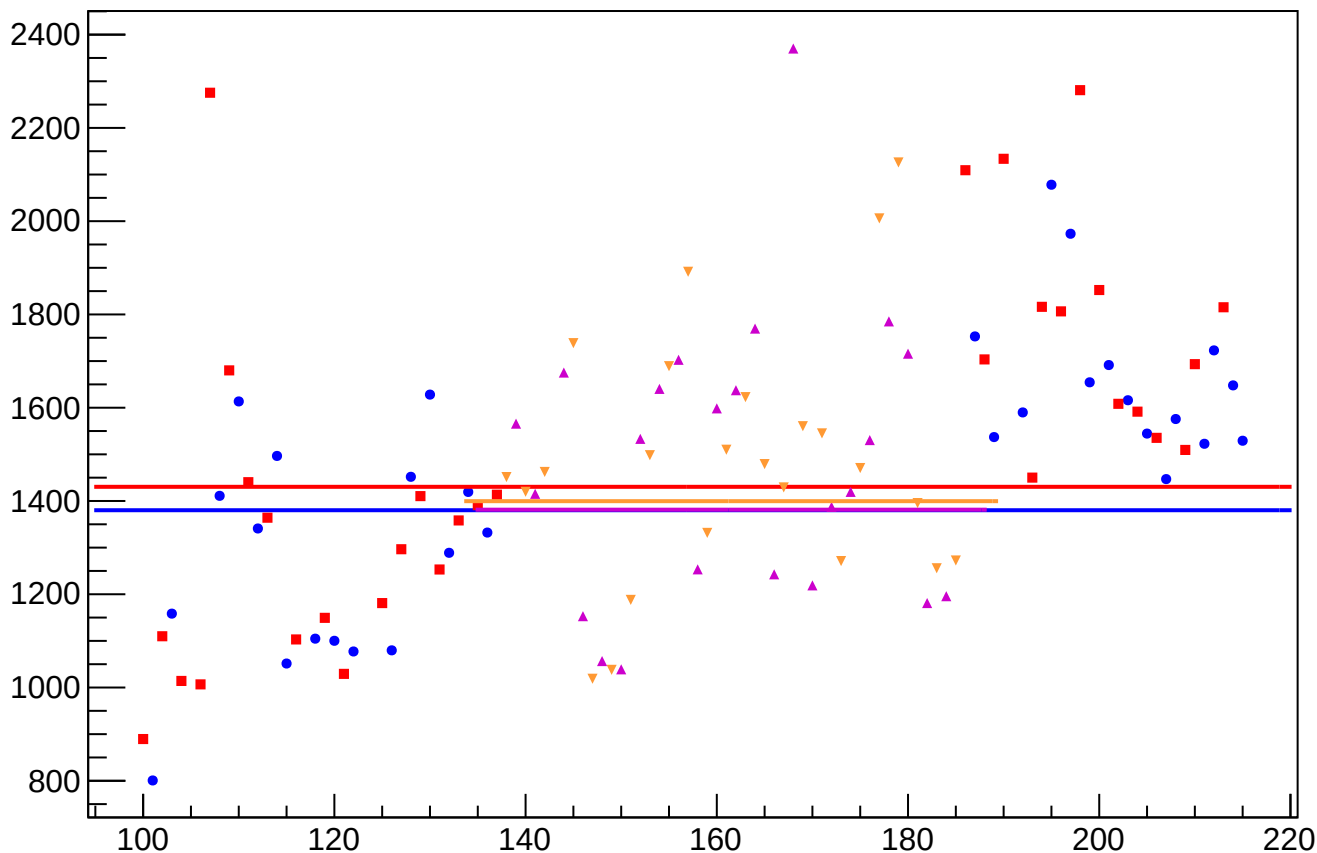
Right: -207.864 $\pm$ 247.116 χ^2/NDF : 74.5/62

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

Out: -336.155 $\pm$ 246.759 χ^2/NDF : 69.9/55

All: -141.416 $\pm$ 172.083 χ^2/NDF : 119.0/109

asym_us_avg_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 1430.389 $\pm$ 0.253 χ^2 /NDF: 1591718.0/31

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

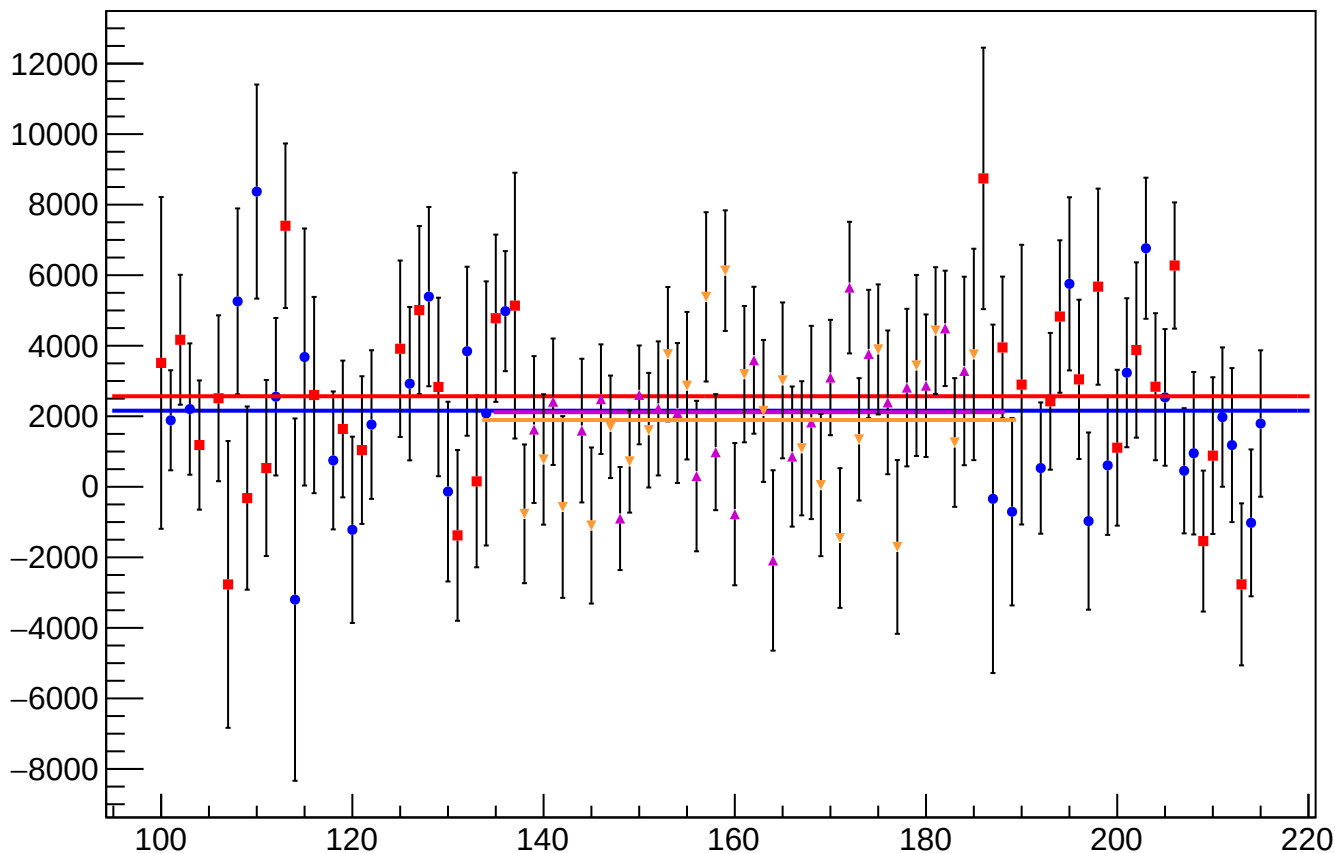
Right: 1404.071 $\pm$ 0.175 χ^2 /NDF: 3231036.8/62

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

Out: 1414.202 $\pm$ 0.174 χ^2 /NDF:2718613.7/55

All: 1397.031 $\pm$ 0.122 χ^2 /NDF: 5632691.0/10

asym_us_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 2567.655 $\pm$ 414.677 χ^2 /NDF: 37.2/31

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

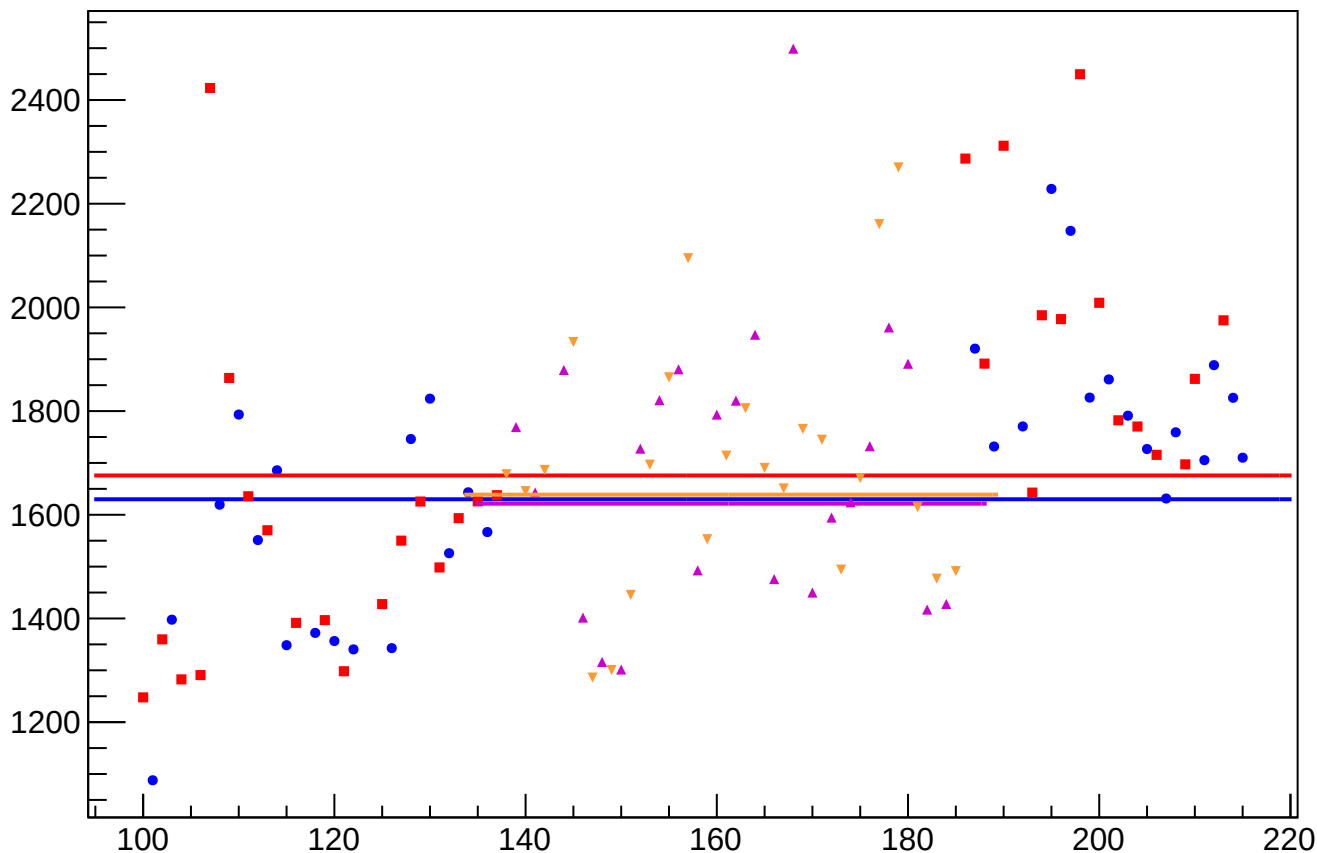
Right: 2354.274 $\pm$ 287.043 χ^2 /NDF: 68.5/62

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

Out: 2214.082 $\pm$ 285.964 χ^2 /NDF:64.5/55

All: 2174.561 $\pm$ 199.901 χ^2 /NDF: 114.1/109

asym_us_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 1675.777 $\pm$ 0.293 χ^2 /NDF: 934882.1/31

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

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

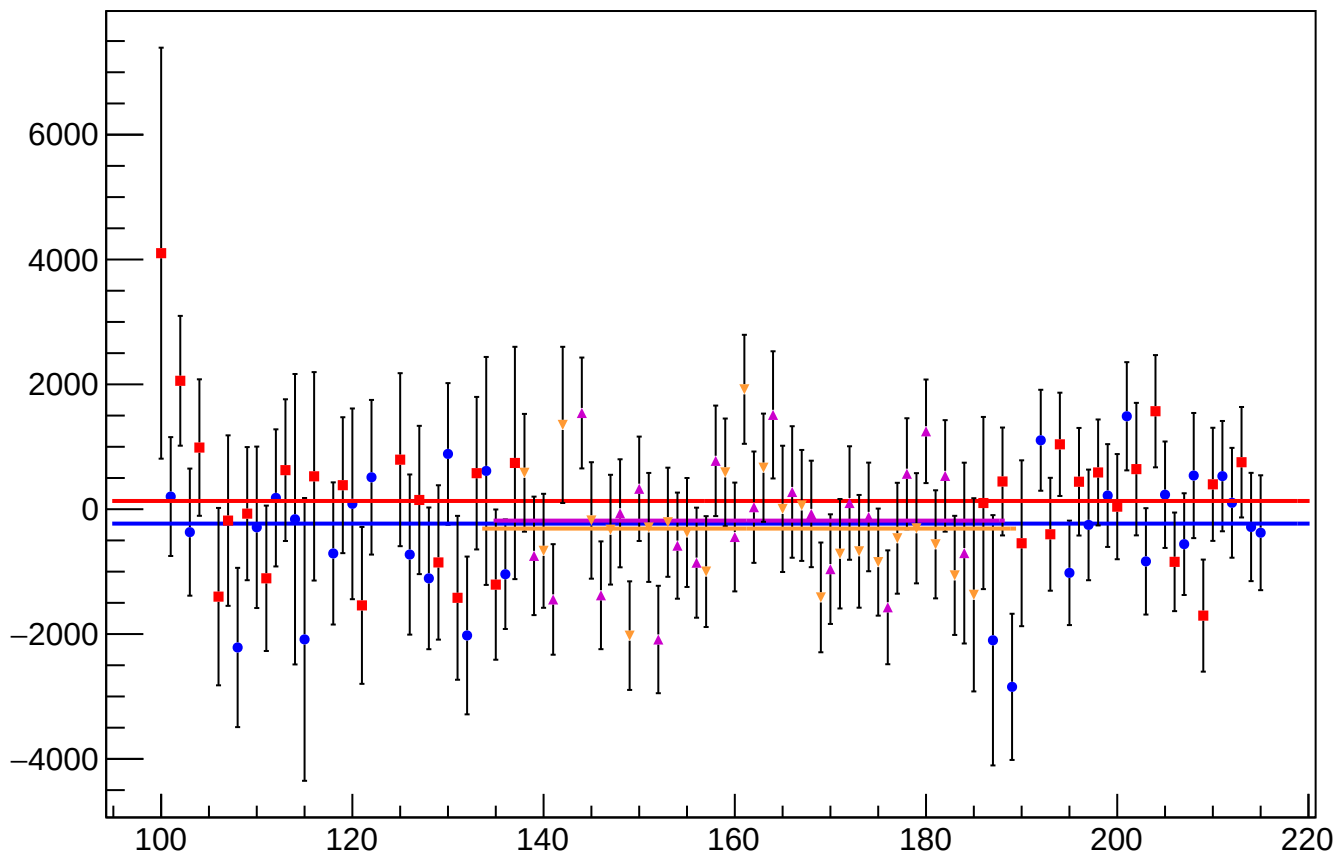
Right: 1651.892 $\pm$ 0.203 χ^2 /NDF: 1787279.2/62

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

Out: 1656.388 $\pm$ 0.202 χ^2 /NDF: 1615125.9/55

All: 1640.653 $\pm$ 0.141 χ^2 /NDF: 3242397.3/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -230.629 ± 185.445 χ^2/NDF : 25.0/30

Left Out: -310.563 ± 186.538 χ^2/NDF : 20.0/23

Right Out: 131.962 ± 189.154 χ^2/NDF : 25.1/31

Left In: -182.895 ± 187.817 χ^2/NDF : 26.1/22

Left: -247.165 ± 132.352 χ^2/NDF : 46.4/46

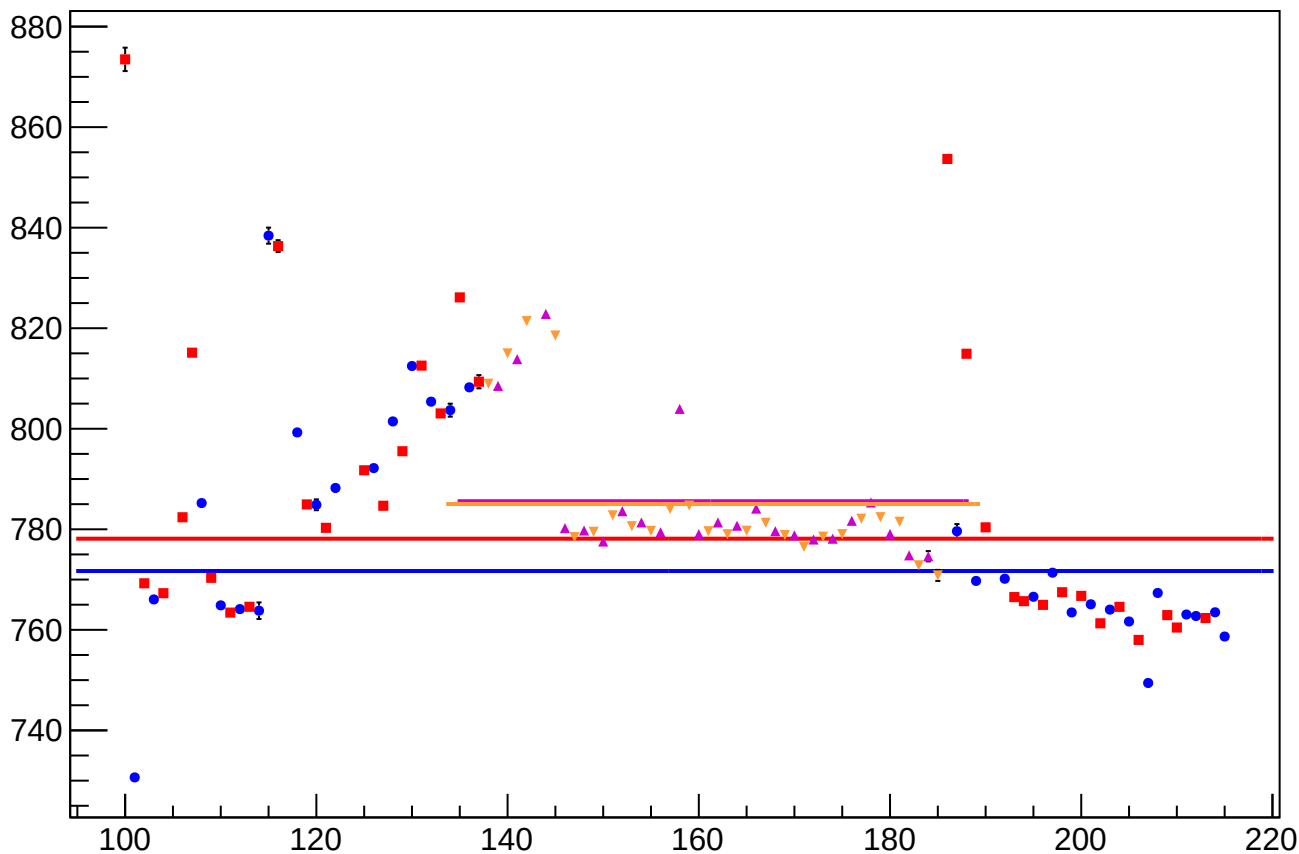
Right: -52.924 ± 132.421 χ^2/NDF : 52.0/62

In: -207.065 ± 131.960 χ^2/NDF : 51.2/53

Out: -92.382 ± 132.817 χ^2/NDF : 48.0/55

All: -150.095 ± 93.611 χ^2/NDF : 99.5/109

reg_asym_us_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 778.132 $\pm$ 0.134 χ^2 /NDF: 29120.8/31

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

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

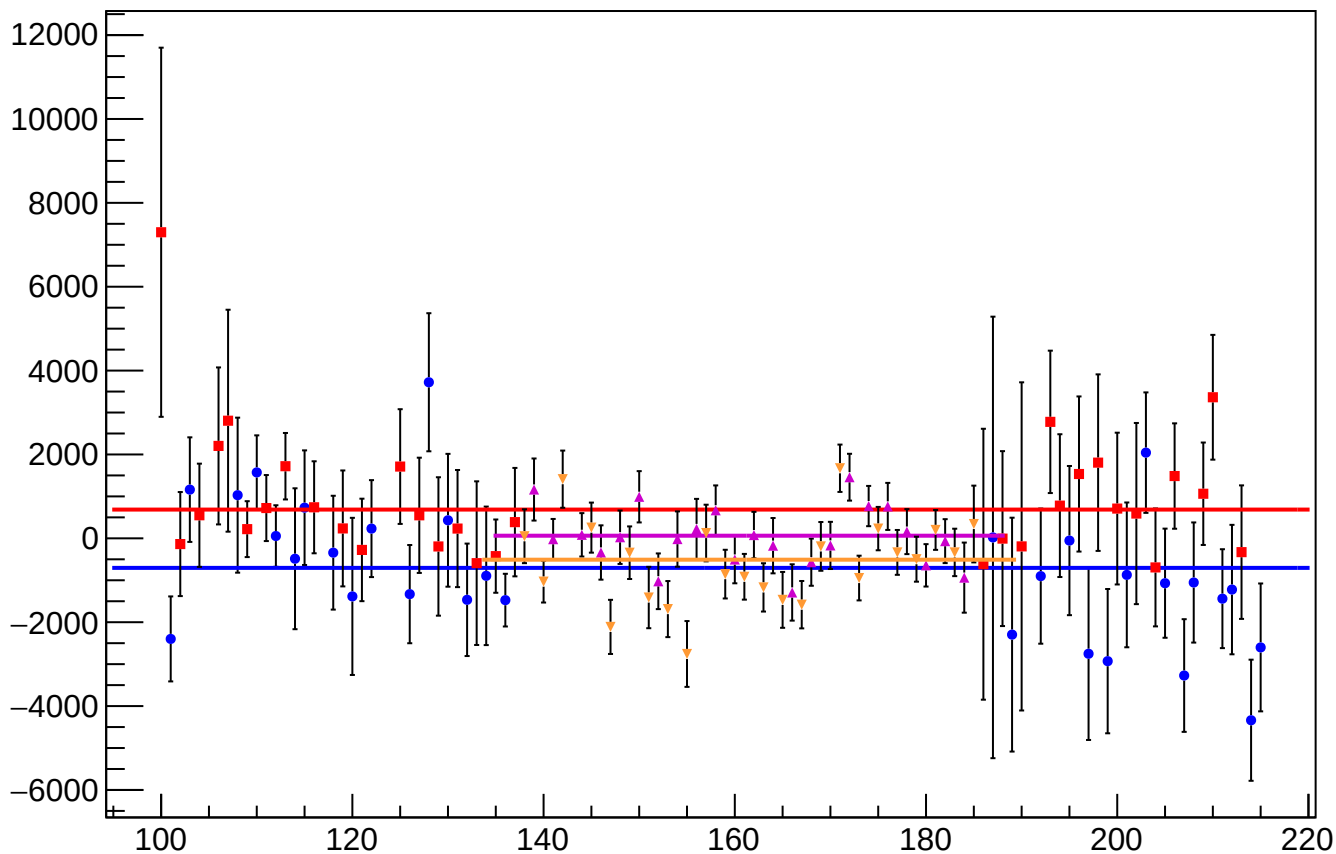
Right: 774.854 $\pm$ 0.094 χ^2 /NDF: 51249.6/62

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

Out: 781.629 $\pm$ 0.094 χ^2 /NDF:39837.3/55

All: 780.084 $\pm$ 0.066 χ^2 /NDF: 76237.8/109

asym_us_dd_correction_mean vs Slug, Sign Corrected



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

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

Right Out: 685.824 $\pm$ 234.641 χ^2 /NDF: 17.4/31

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

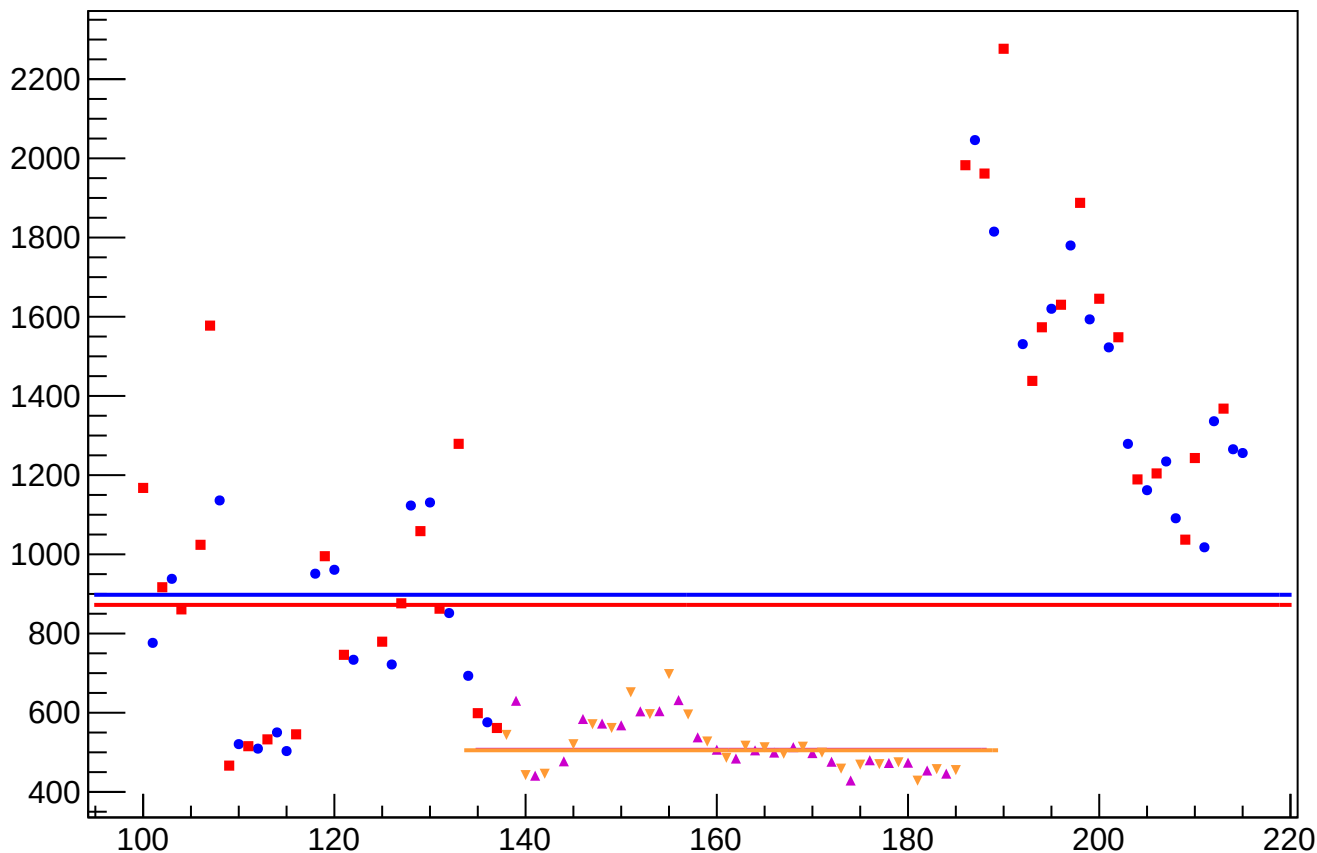
Right: -14.004 $\pm$ 165.353 χ^2 /NDF: 79.6/62

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

Out: -257.631 $\pm$ 107.676 χ^2 /NDF:98.5/55

All: -180.303 $\pm$ 76.294 χ^2 /NDF: 181.2/109

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 897.848 $\pm$ 0.165 χ^2 /NDF: 4686184.9/30

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

Right Out: 872.329 $\pm$ 0.166 χ^2 /NDF: 5893645.0/31

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

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

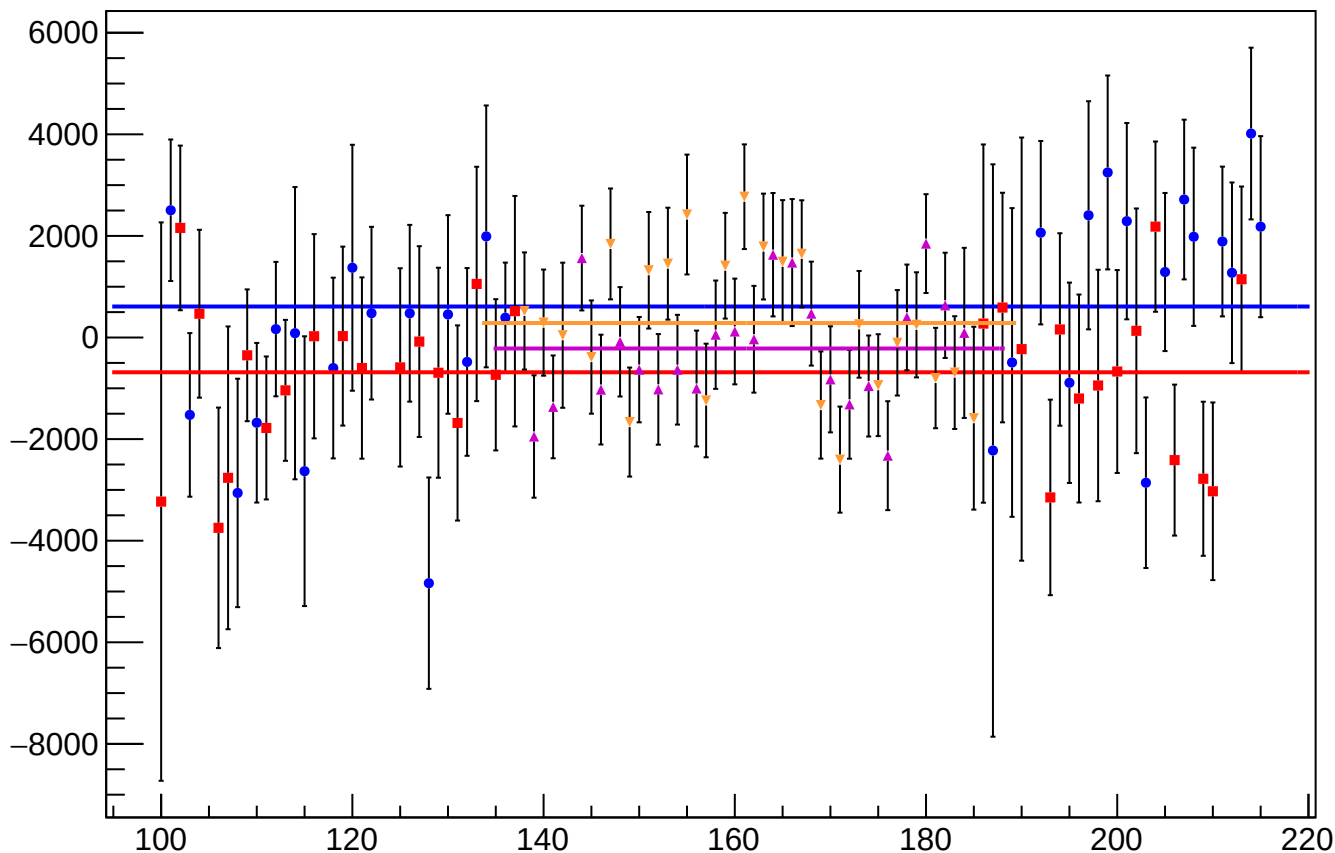
Right: 885.175 $\pm$ 0.117 χ^2 /NDF: 10591738.5/62

In: 590.630 $\pm$ 0.076 χ^2 /NDF: 9550924.2/53

Out: 582.529 $\pm$ 0.076 χ^2 /NDF: 10243944.8/55

All: 586.563 $\pm$ 0.054 χ^2 /NDF: 19800506.6/100

asym_us_dd_mean vs Slug, Sign Corrected



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

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

Right Out: -684.544 ± 332.124 χ^2/NDF : 19.6/31

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

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

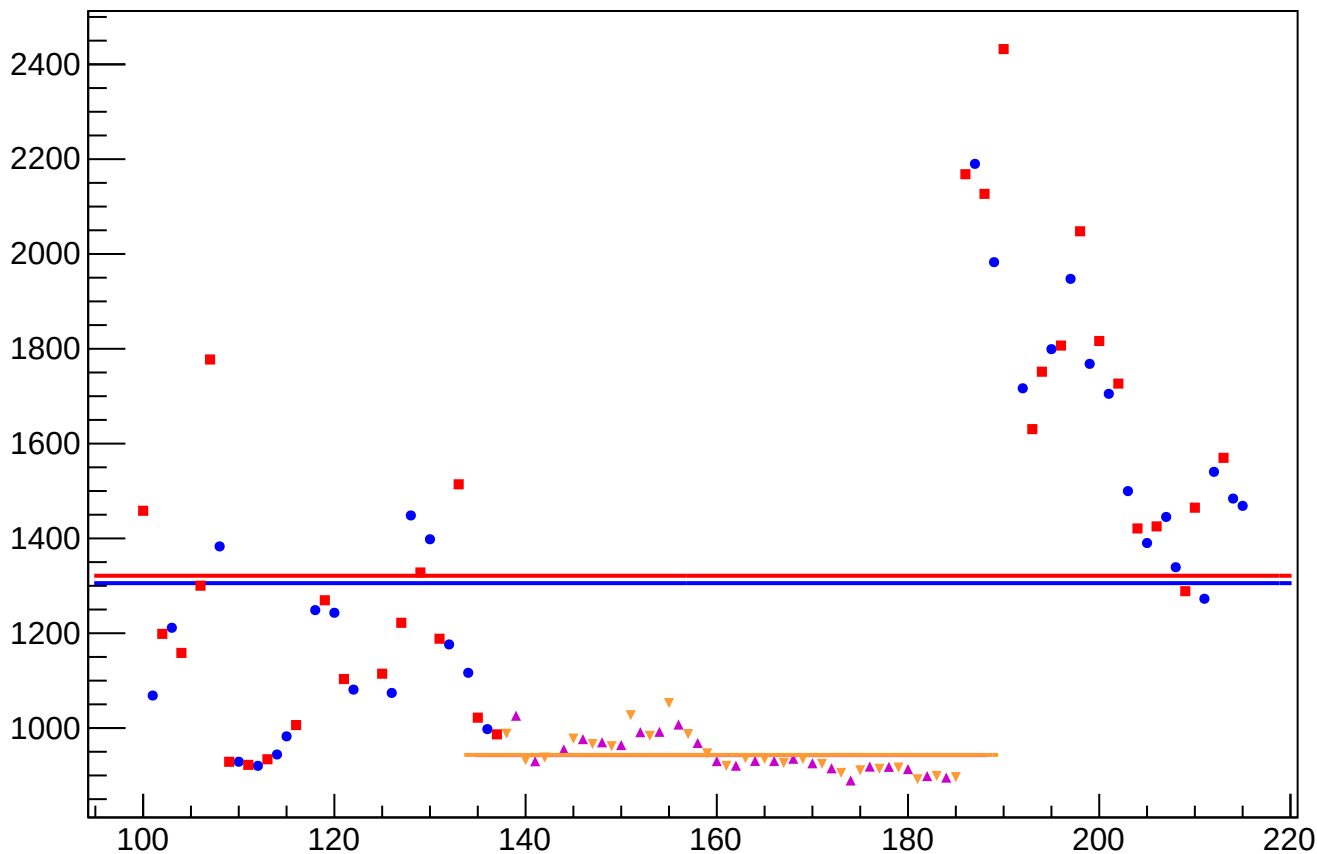
Right: -16.224 ± 231.025 χ^2/NDF : 63.1/62

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

Out: -18.738 ± 185.925 χ^2/NDF : 63.7/55

All: 19.116 ± 131.027 χ^2/NDF : 128.3/109

asym_us_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 1321.258+/-0.235 χ^2/NDF : 2065960.4/31

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

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

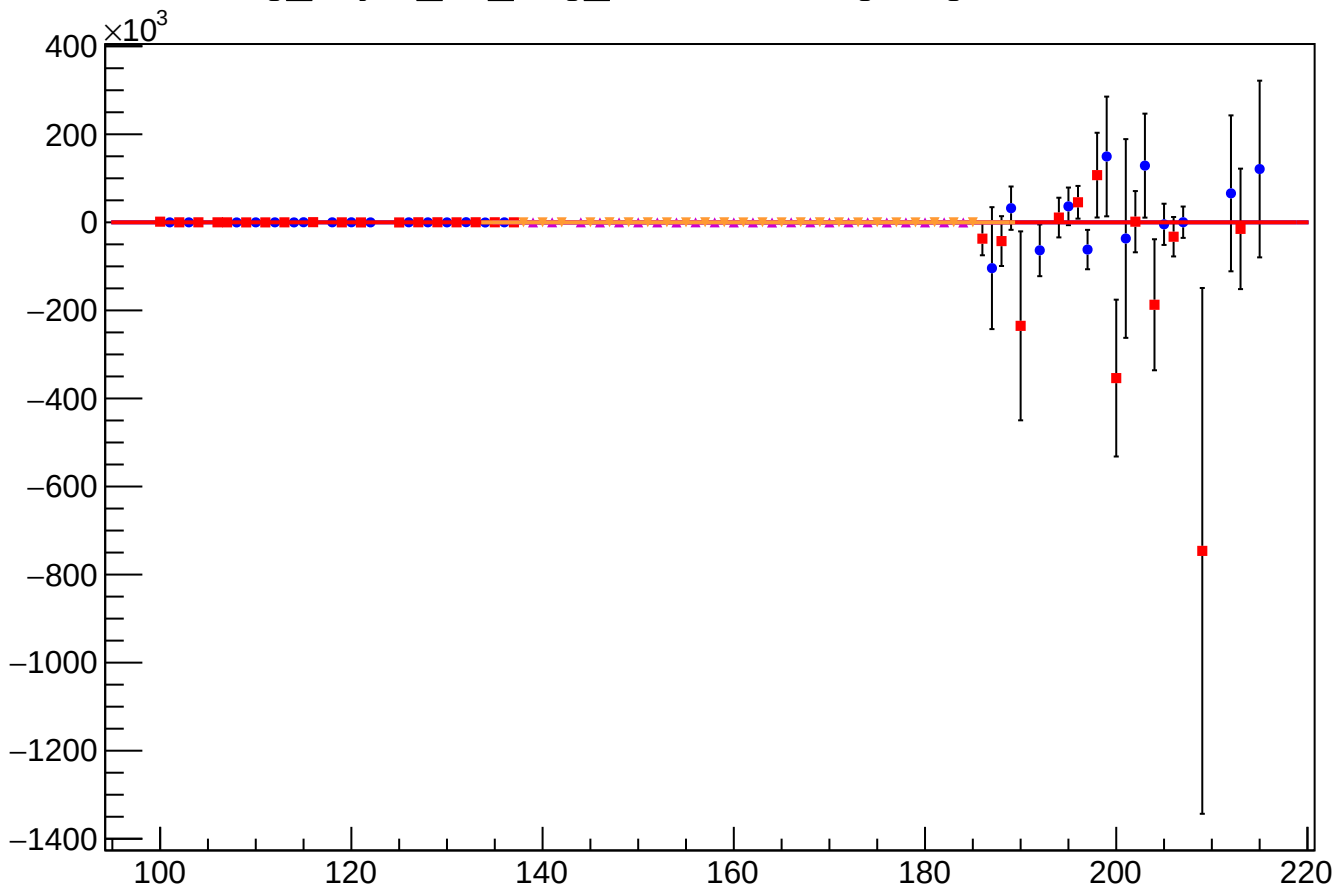
Right: 1313.208+/-0.163 χ^2/NDF : 3618703.2/62

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

Out: 1061.780+/-0.131 χ^2/NDF : 3904257.4/55

All: 1062.179+/-0.093 χ^2/NDF : 7208591.2/10

reg_asym_ds_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 31.724 ± 30.492 $\chi^2/\text{NDF}: 30.0/29$

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

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

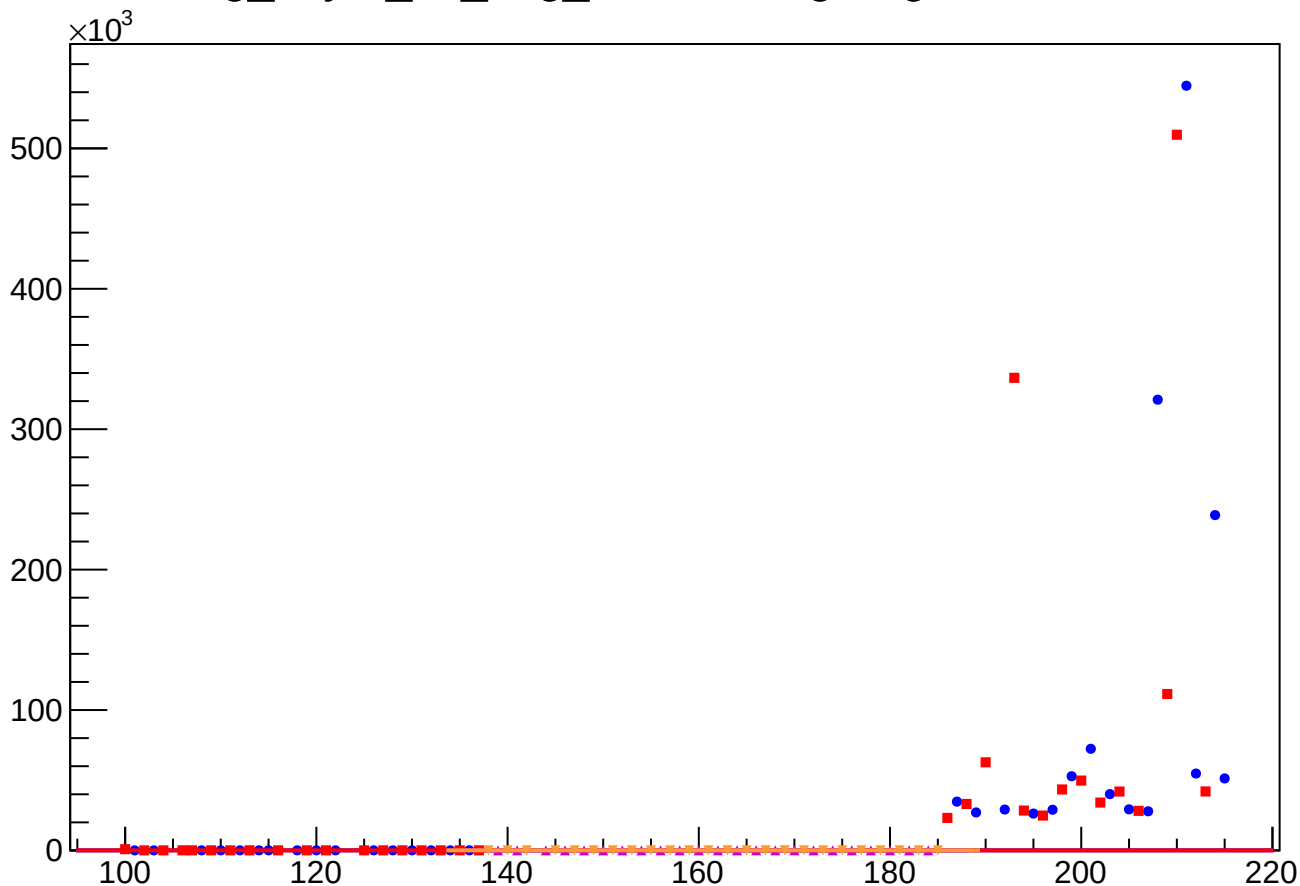
Right: 7.727 ± 21.397 $\chi^2/\text{NDF}: 54.9/57$

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

Out: 12.994 ± 17.553 $\chi^2/\text{NDF}: 53.0/53$

All: -3.737 ± 12.403 $\chi^2/\text{NDF}: 101.0/104$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 79.458 $\pm$ 0.022 χ^2 /NDF: 6196457.8/31

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

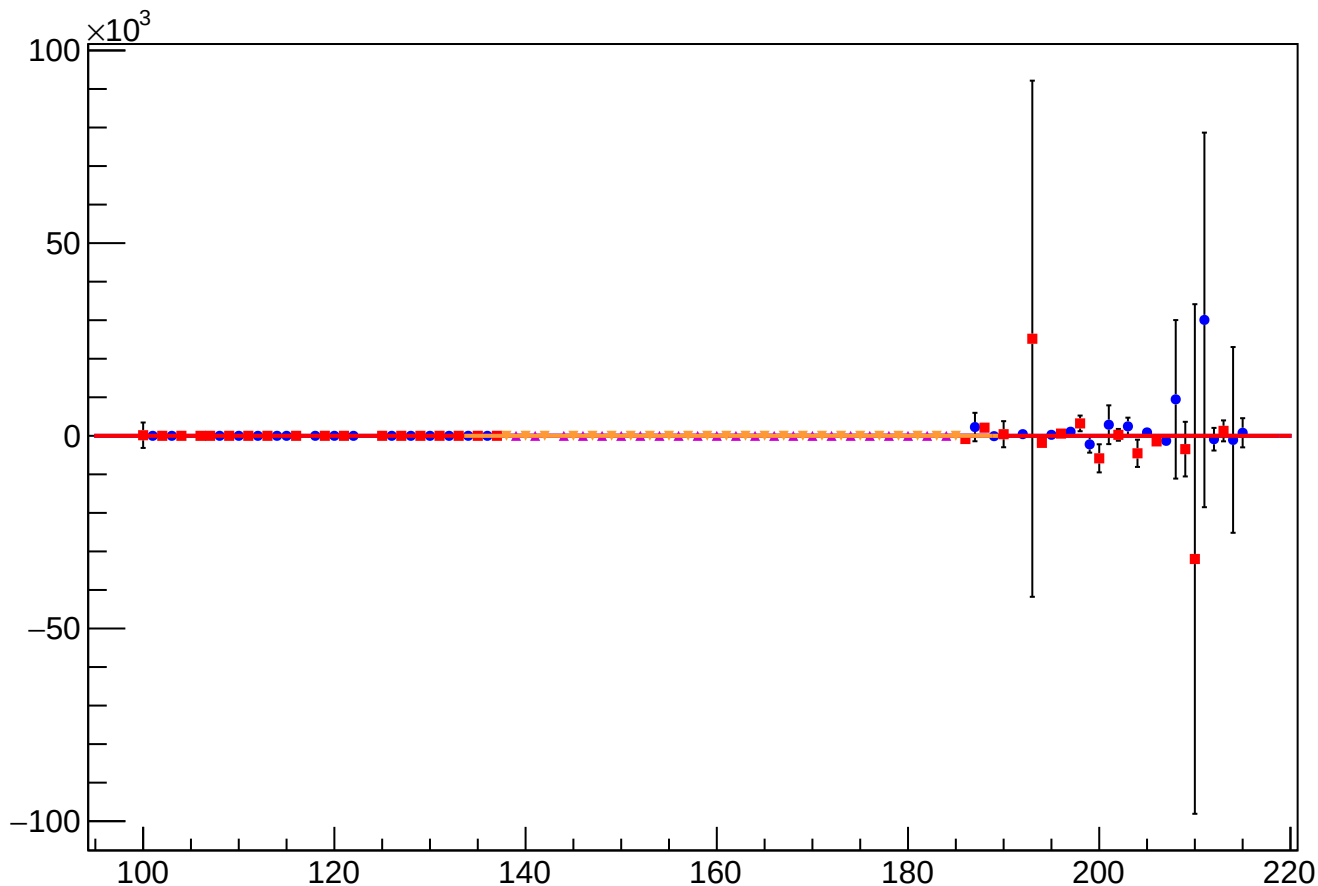
Right: 77.775 $\pm$ 0.015 χ^2 /NDF: 12919931.5/62

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

Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6813380.3/55

All: 85.656 $\pm$ 0.009 χ^2 /NDF: 14303409.0/109

asym_ds_avg_correction_mean vs Slug, Sign Corrected



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

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.7/31

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

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

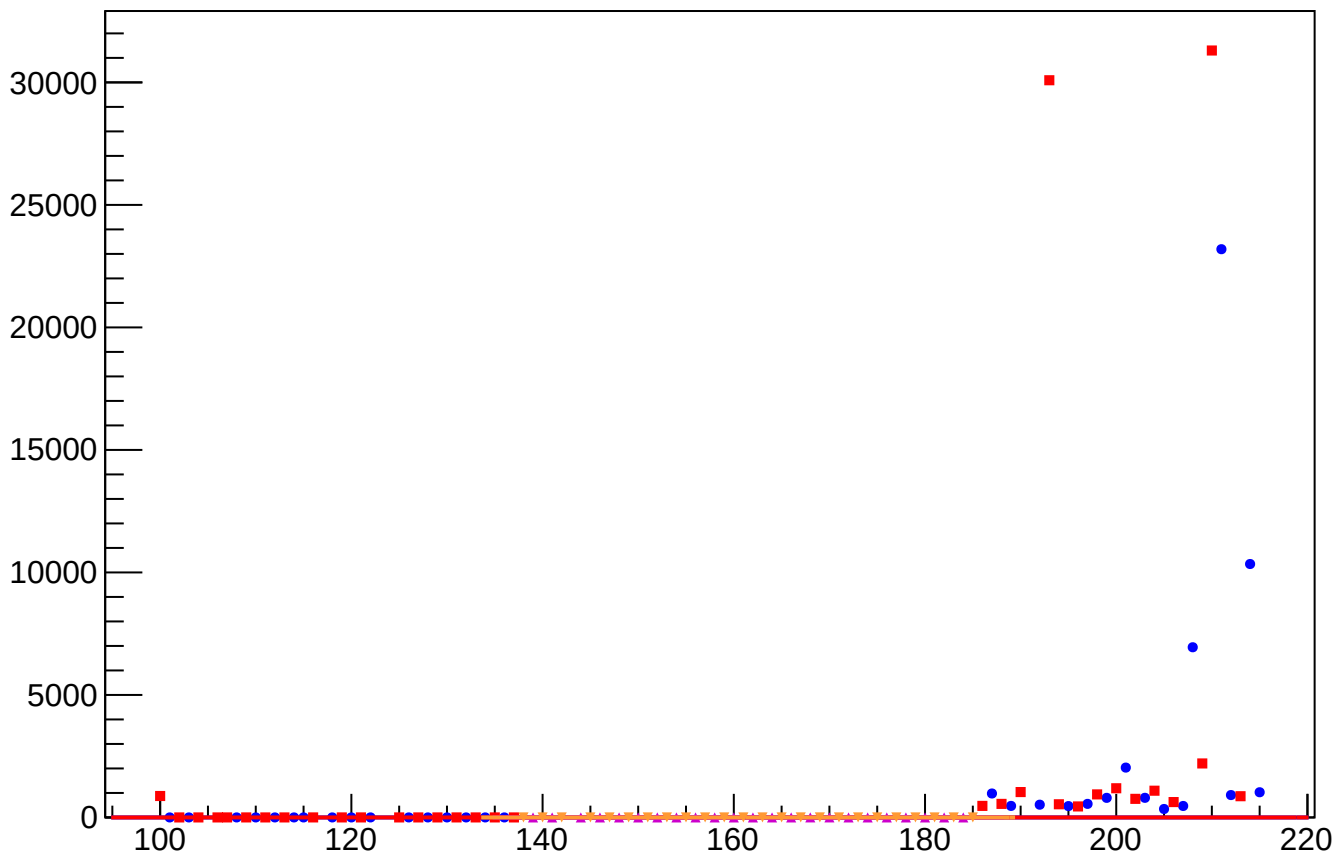
Right: -0.133 ± 0.363 χ^2/NDF : 61.5/62

In: -0.433 ± 0.306 χ^2/NDF : 58.1/53

Out: 0.096 ± 0.306 χ^2/NDF : 51.1/55

All: -0.168 ± 0.217 χ^2/NDF : 110.6/109

asym_ds_avg_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 1.260+/-0.000 χ^2/NDF : 6816793.9/31

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

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

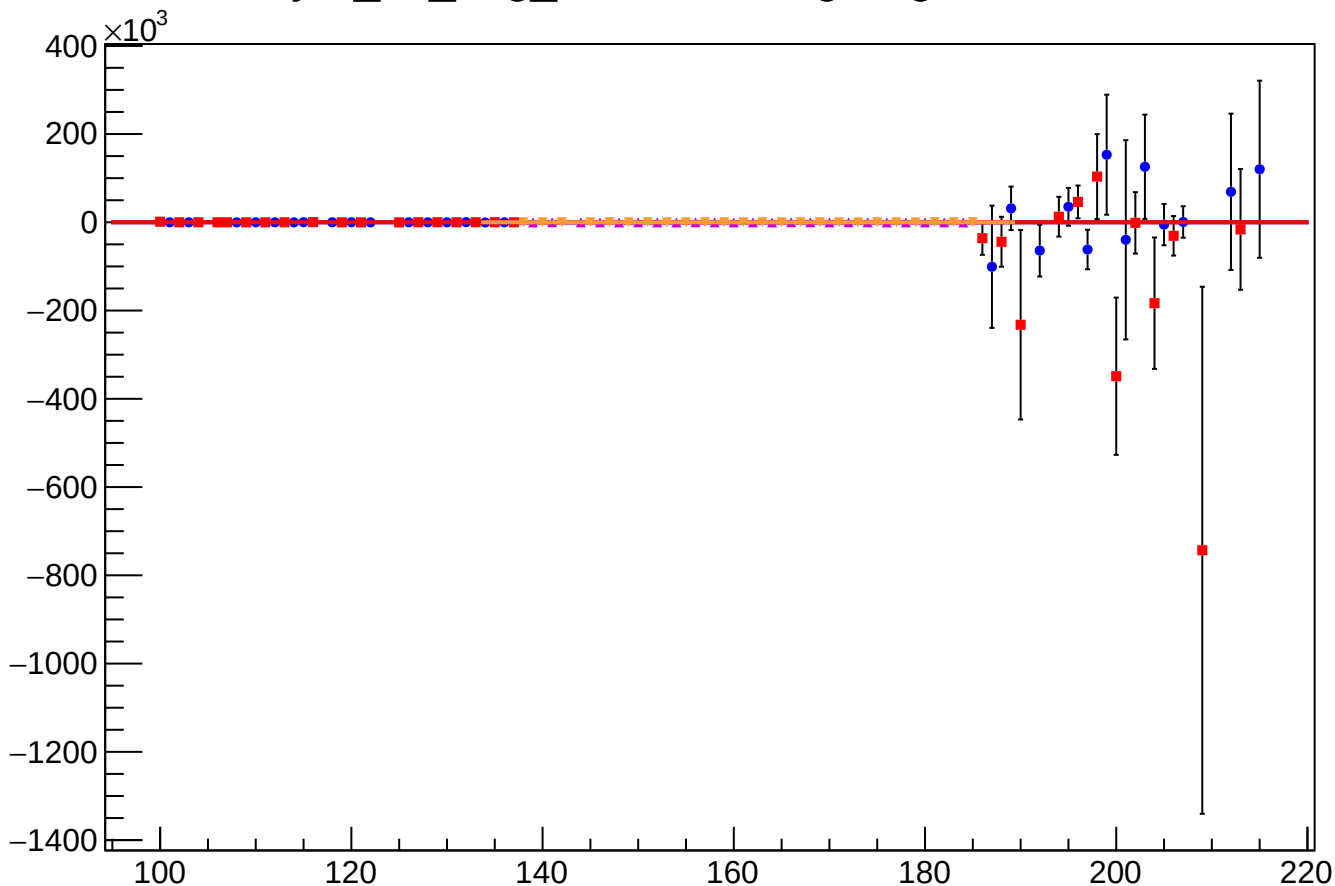
Right: 1.204+/-0.000 χ^2/NDF : 13578539.0/62

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

Out: 1.358+/-0.000 χ^2/NDF : 7909414.1/55

All: 1.350+/-0.000 χ^2/NDF : 16074748.4/109

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.489 ± 30.040 $\chi^2/\text{NDF}: 23.9/27$

Left Out: 3.497 ± 21.474 $\chi^2/\text{NDF}: 22.1/23$

Right Out: 32.004 ± 30.500 $\chi^2/\text{NDF}: 29.6/29$

Left In: -22.446 ± 21.591 $\chi^2/\text{NDF}: 22.3/22$

Left: -9.404 ± 15.226 $\chi^2/\text{NDF}: 45.2/46$

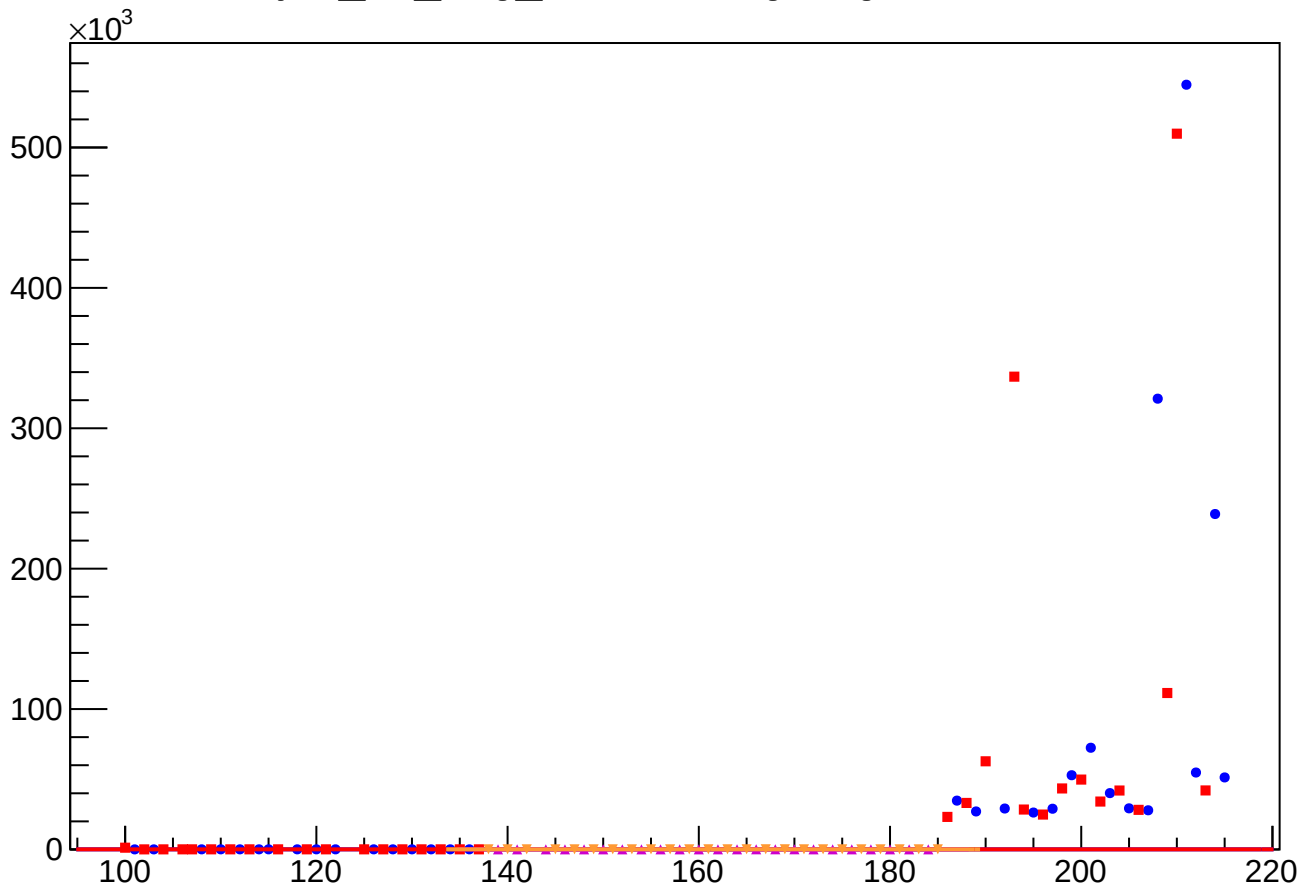
Right: 8.404 ± 21.402 $\chi^2/\text{NDF}: 54.7/57$

In: -19.736 ± 17.532 $\chi^2/\text{NDF}: 46.3/50$

Out: 12.945 ± 17.559 $\chi^2/\text{NDF}: 52.3/53$

All: -3.420 ± 12.407 $\chi^2/\text{NDF}: 100.3/104$

asym_ds_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 79.461 $\pm$ 0.022 χ^2 /NDF: 6203070.4/31

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

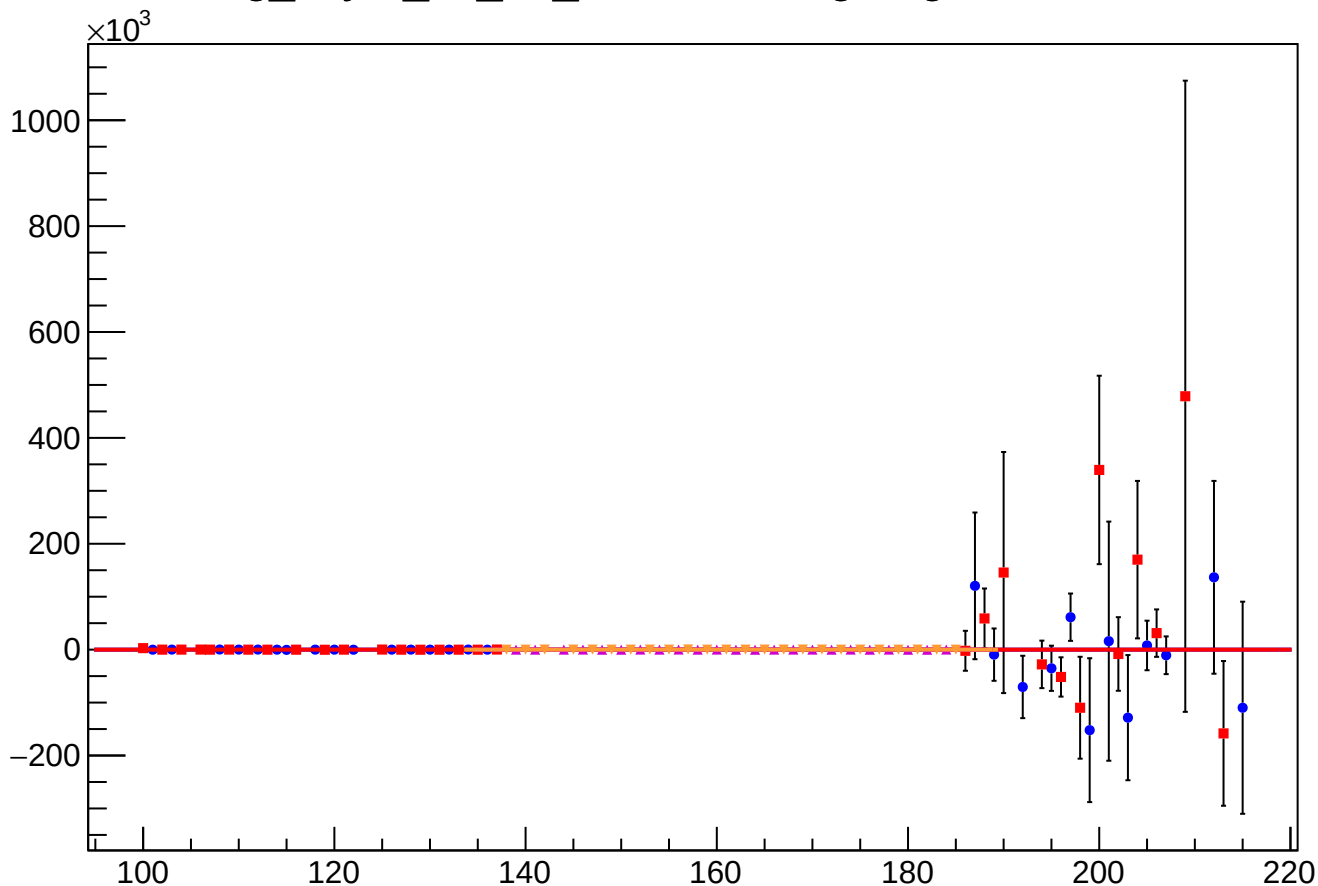
Right: 77.786 $\pm$ 0.015 χ^2 /NDF: 12926525.6/62

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

Out: 86.319 $\pm$ 0.012 χ^2 /NDF: 6821336.0/55

All: 85.677 $\pm$ 0.009 χ^2 /NDF: 14312428.1/109

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.089 ± 30.012 $\chi^2/\text{NDF}: 22.2/27$

Left Out: 15.274 ± 21.472 $\chi^2/\text{NDF}: 17.2/23$

Right Out: -25.791 ± 30.473 $\chi^2/\text{NDF}: 25.3/29$

Left In: 43.424 ± 21.593 $\chi^2/\text{NDF}: 31.4/22$

Left: 29.270 ± 15.226 $\chi^2/\text{NDF}: 49.5/46$

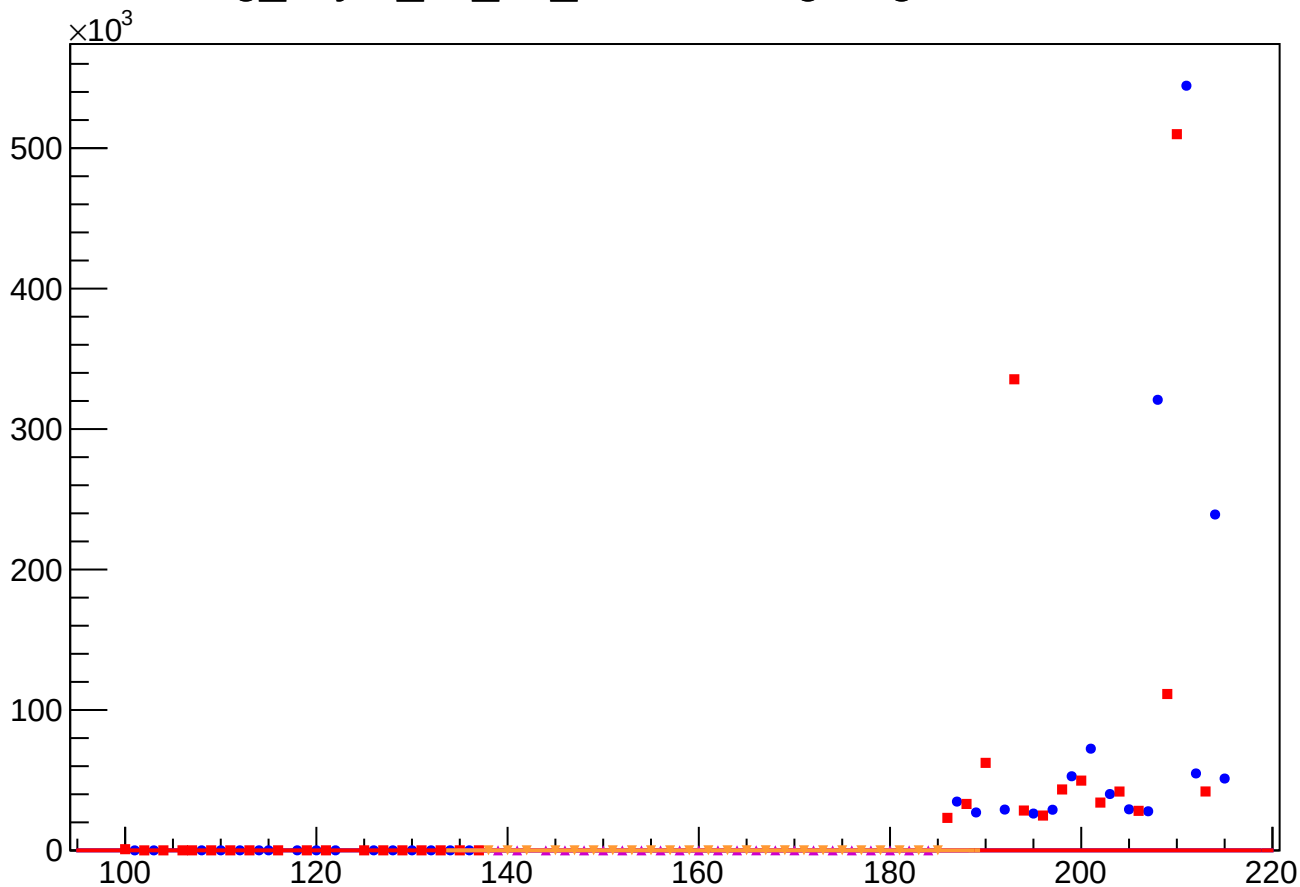
Right: -8.593 ± 21.383 $\chi^2/\text{NDF}: 48.2/57$

In: 31.371 ± 17.528 $\chi^2/\text{NDF}: 54.6/50$

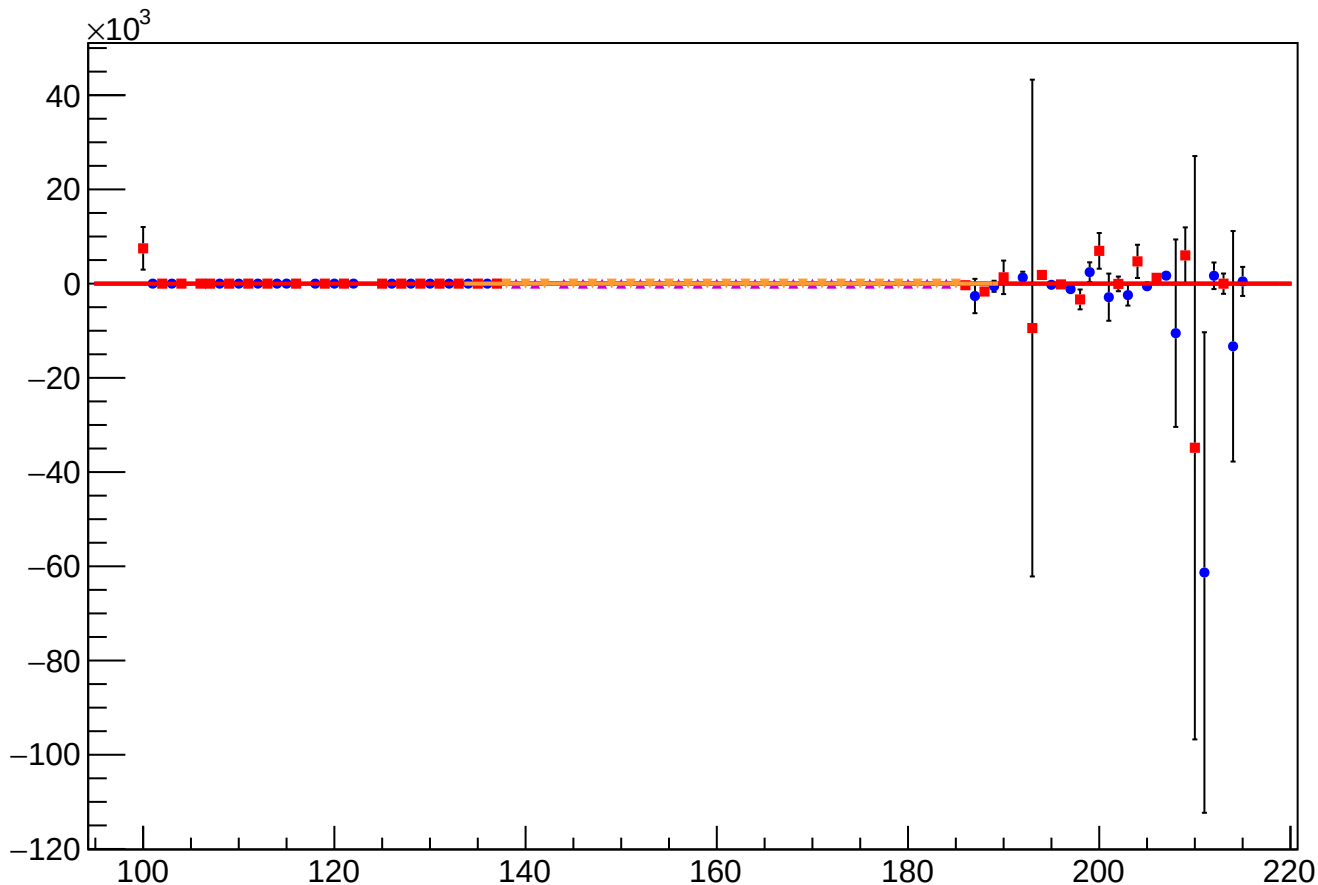
Out: 1.649 ± 17.552 $\chi^2/\text{NDF}: 43.7/53$

All: 16.531 ± 12.403 $\chi^2/\text{NDF}: 99.7/104$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



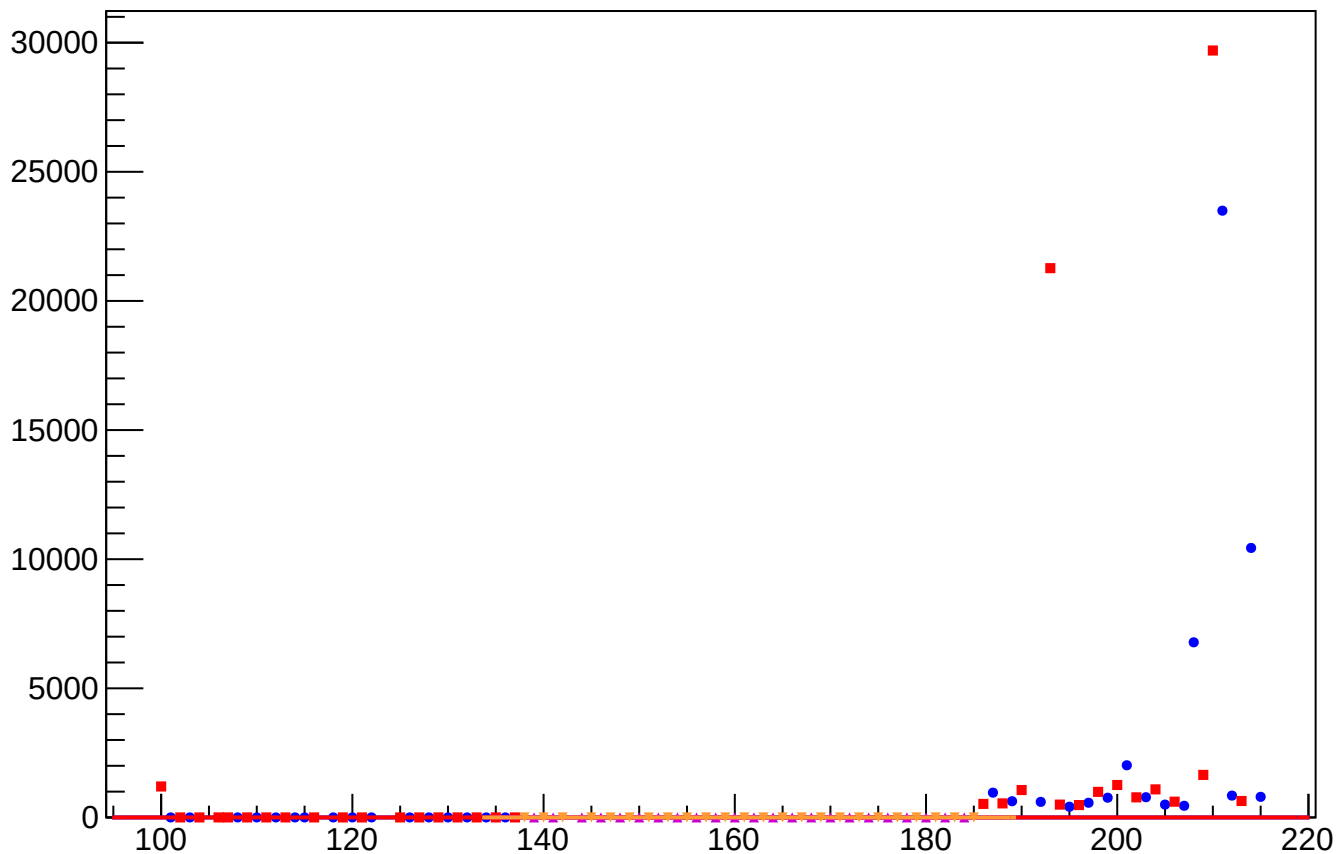
asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.893 ± 0.531 $\chi^2/\text{NDF}: 27.8/30$
 Left Out: -0.516 ± 0.391 $\chi^2/\text{NDF}: 20.7/23$
 Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 32.0/31$
 Left In: -0.072 ± 0.390 $\chi^2/\text{NDF}: 20.4/22$

Left: -0.293 ± 0.276 $\chi^2/\text{NDF}: 41.7/46$
 Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 60.3/62$
 In: 0.267 ± 0.315 $\chi^2/\text{NDF}: 50.3/53$
 Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 54.4/55$
 All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 105.9/109$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 1.317+/-0.000 χ^2/NDF : 6711041.2/31

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

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

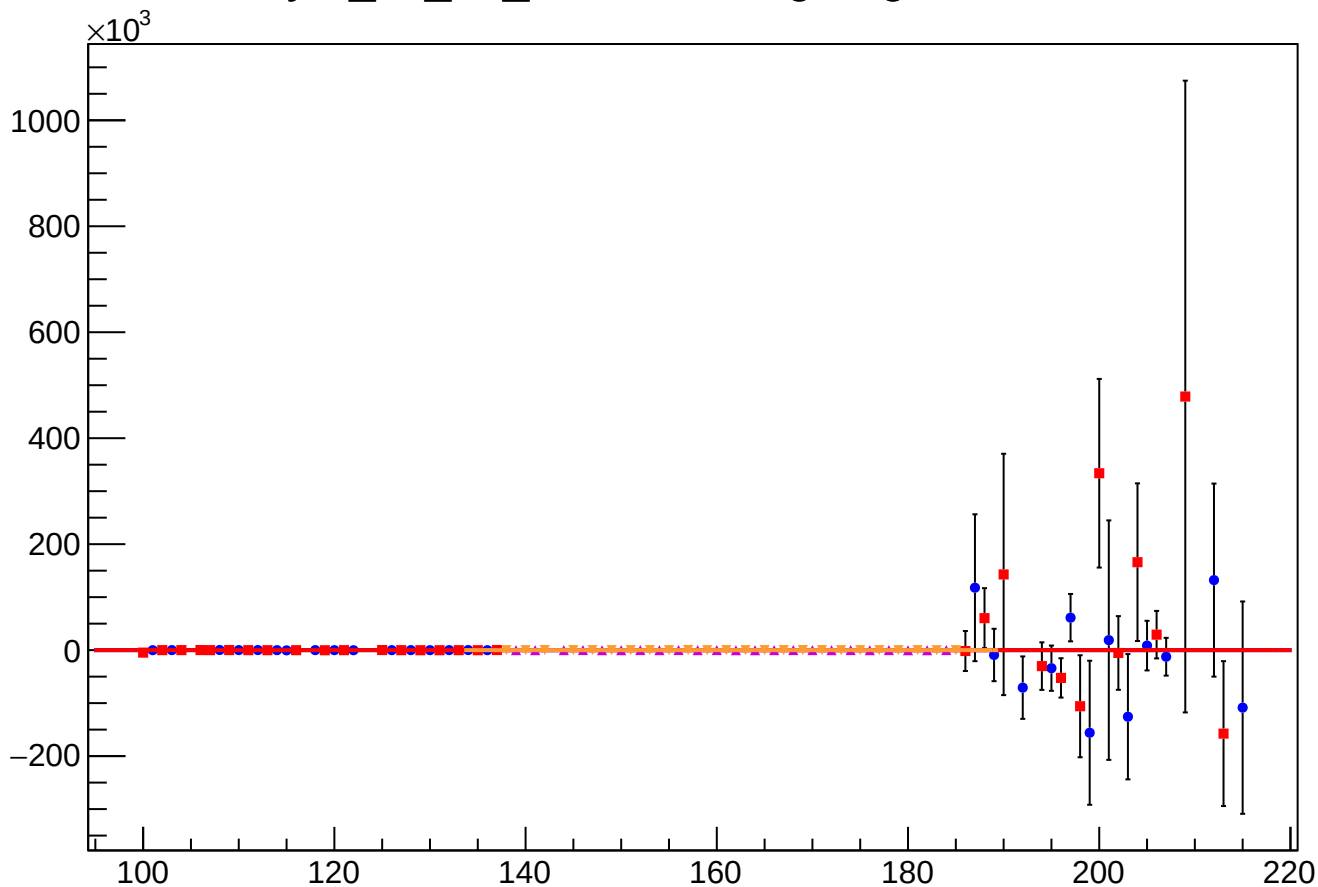
Right: 1.274+/-0.000 χ^2/NDF : 13681344.8/62

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

Out: 1.419+/-0.000 χ^2/NDF :7969917.4/55

All: 1.400+/-0.000 χ^2/NDF : 16215630.1/109

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.381 ± 30.020 $\chi^2/NDF: 22.1/27$

Left Out: 15.770 ± 21.479 $\chi^2/NDF: 17.1/23$

Right Out: -26.402 ± 30.482 $\chi^2/NDF: 25.3/29$

Left In: 43.905 ± 21.600 $\chi^2/NDF: 31.1/22$

Left: 29.758 ± 15.231 $\chi^2/NDF: 49.0/46$

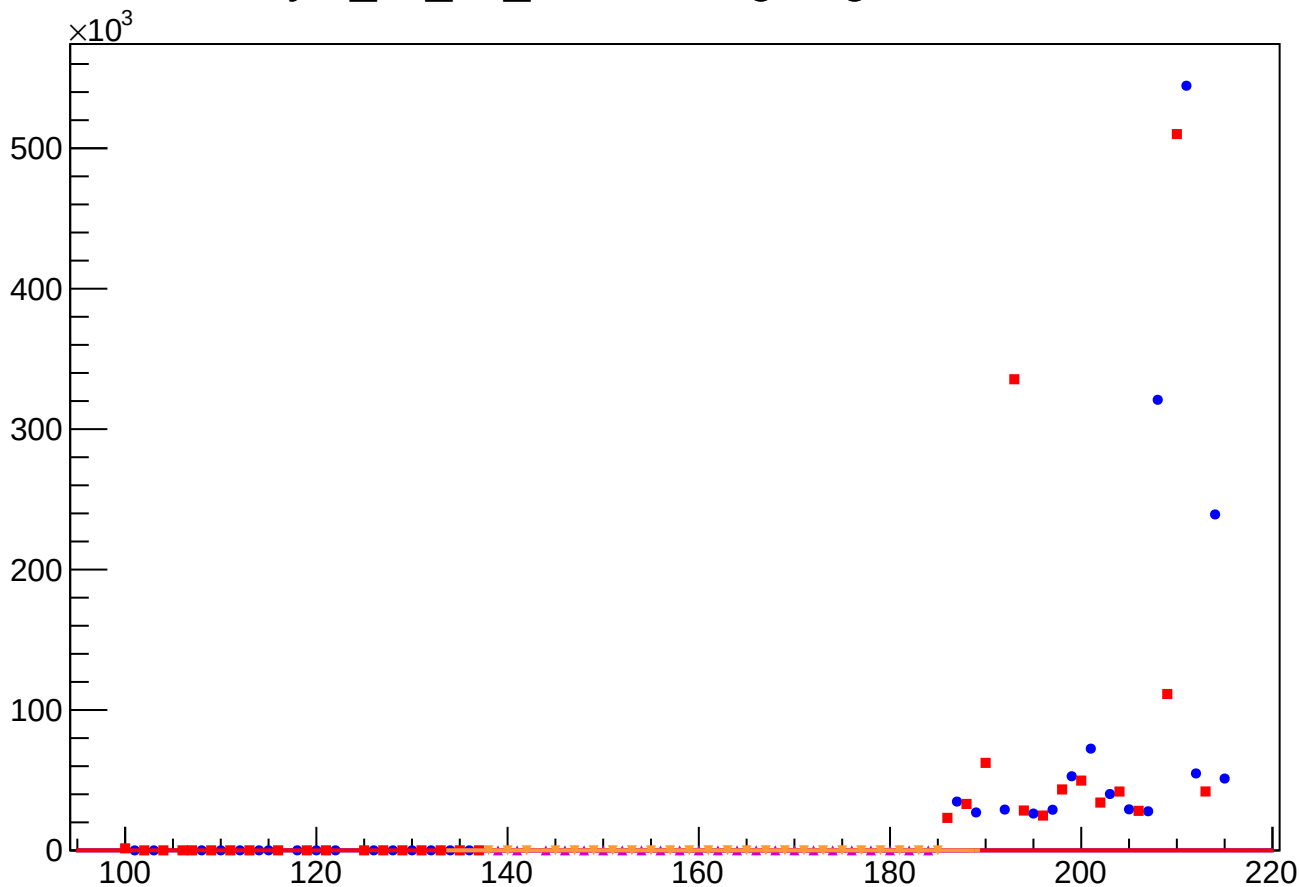
Right: -9.253 ± 21.389 $\chi^2/NDF: 48.0/57$

In: 31.446 ± 17.533 $\chi^2/NDF: 54.1/50$

Out: 1.778 ± 17.558 $\chi^2/NDF: 43.7/53$

All: 16.633 ± 12.407 $\chi^2/NDF: 99.2/104$

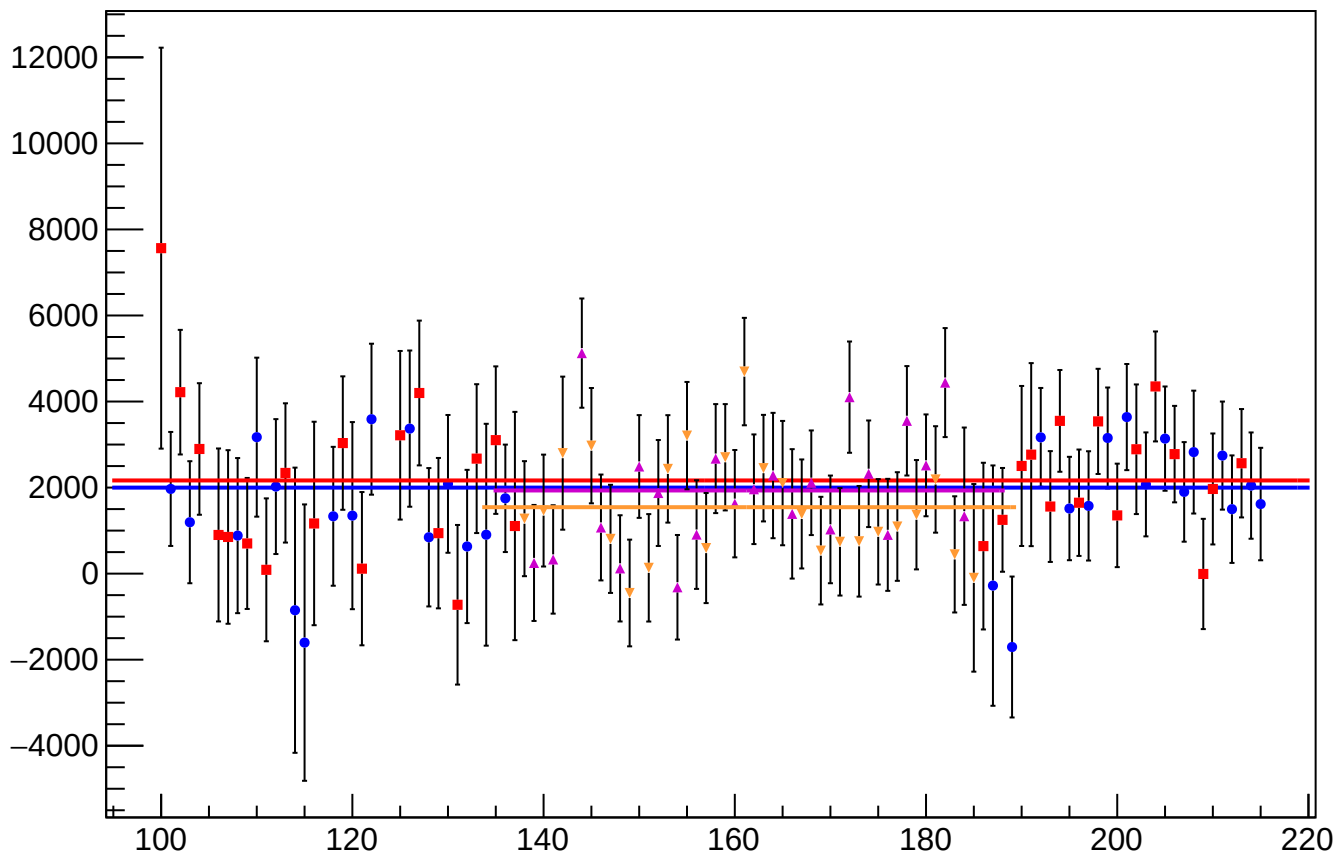
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.113 $\pm$ 0.021 χ^2/NDF : 6711034.3/30
 Left Out: 89.740 $\pm$ 0.015 χ^2/NDF : 465842.6/23
 Right Out: 79.406 $\pm$ 0.022 χ^2/NDF : 6205089.8/31
 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: 77.734 $\pm$ 0.015 χ^2/NDF : 12927974.3/62
 In: 85.035 $\pm$ 0.012 χ^2/NDF : 7491021.4/53
 Out: 86.311 $\pm$ 0.012 χ^2/NDF : 6824524.0/55
 All: 85.672 $\pm$ 0.009 χ^2/NDF : 14320831.8/109

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1999.207 $\pm$ 263.120 χ^2/NDF : 17.7/30

Left Out: 1544.102 $\pm$ 266.270 χ^2/NDF :20.0/23

Right Out: 2165.758 $\pm$ 266.664 χ^2/NDF : 25.2/32

Left In: 1933.000 $\pm$ 268.006 χ^2/NDF :27.0/22

Left: 1737.287 $\pm$ 188.892 χ^2/NDF : 48.0/46

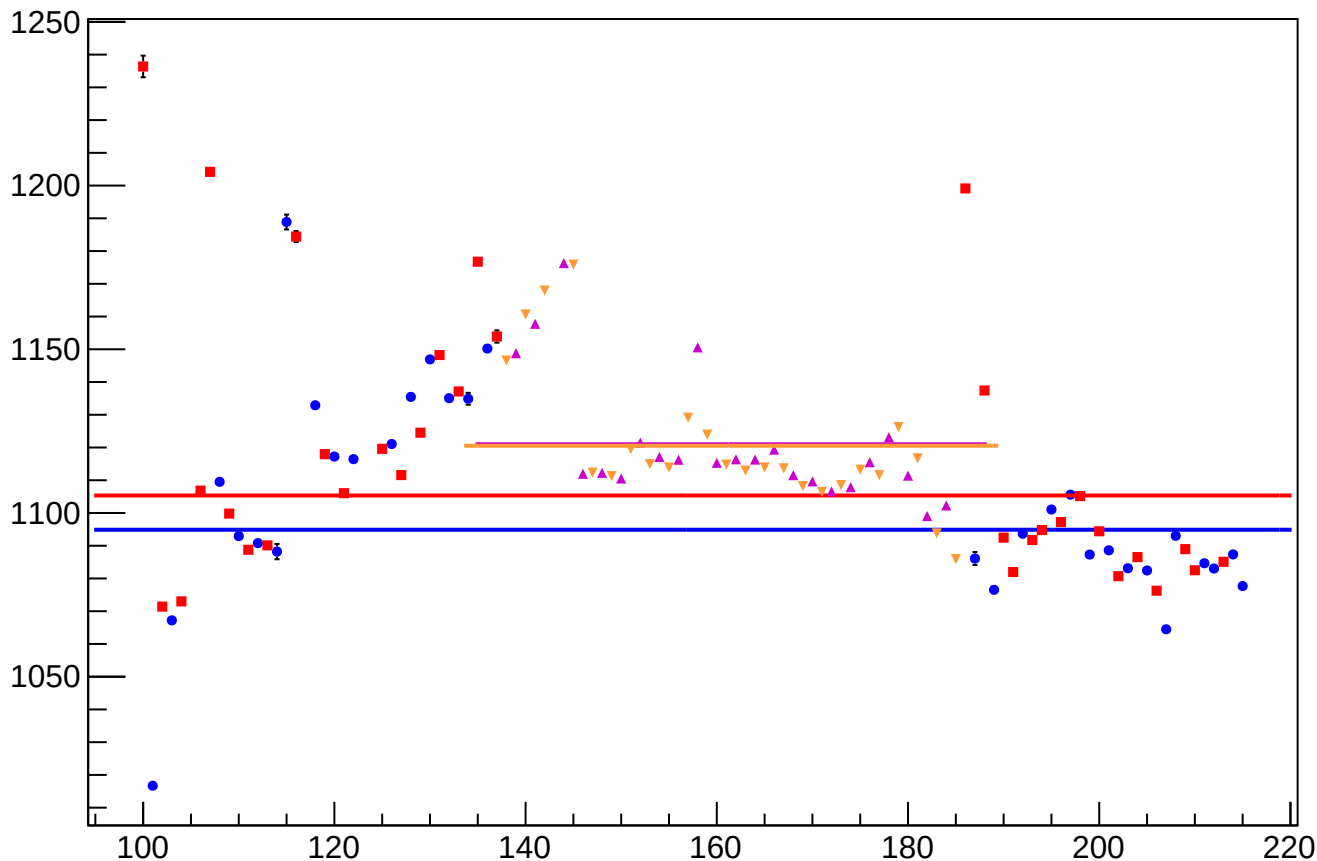
Right: 2081.368 $\pm$ 187.295 χ^2/NDF : 43.1/63

In: 1966.712 $\pm$ 187.758 χ^2/NDF :44.8/53

Out: 1854.470 $\pm$ 188.421 χ^2/NDF :47.9/56

All: 1910.789 $\pm$ 132.999 χ^2/NDF : 92.8/110

reg_asym_usl_rms vs Slug, Sign Corrected



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

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

Right Out: 1105.343 $\pm$ 0.189 χ^2 /NDF: 28262.5/32

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

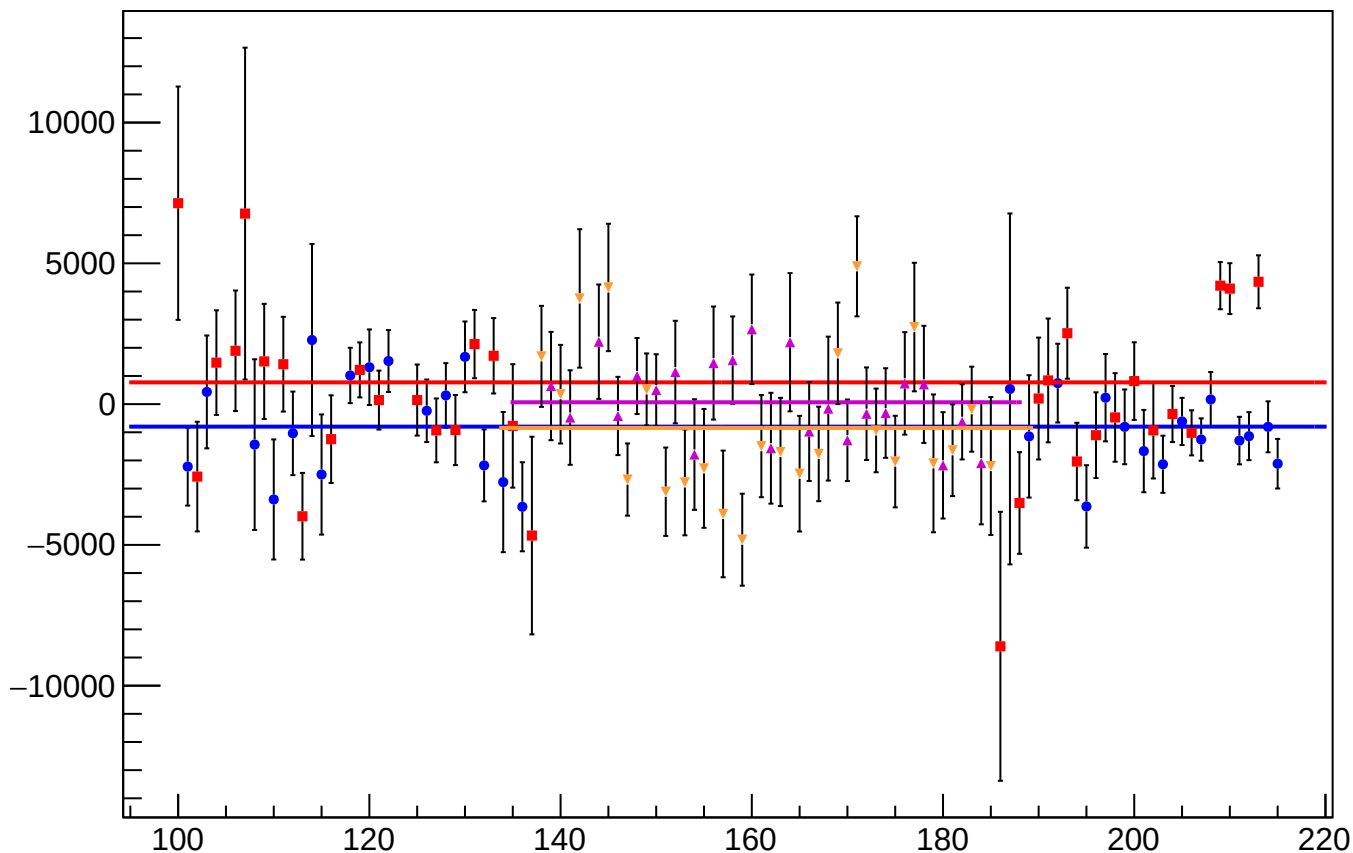
Right: 1100.044 $\pm$ 0.132 χ^2 /NDF: 53385.7/63

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

Out: 1112.954 $\pm$ 0.133 χ^2 /NDF:41769.2/56

All: 1110.317 $\pm$ 0.094 χ^2 /NDF: 85418.8/110

asym_usl_correction_mean vs Slug, Sign Corrected



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

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

Right Out: 772.927 $\pm$ 238.658 χ^2/NDF : 97.0/32

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

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

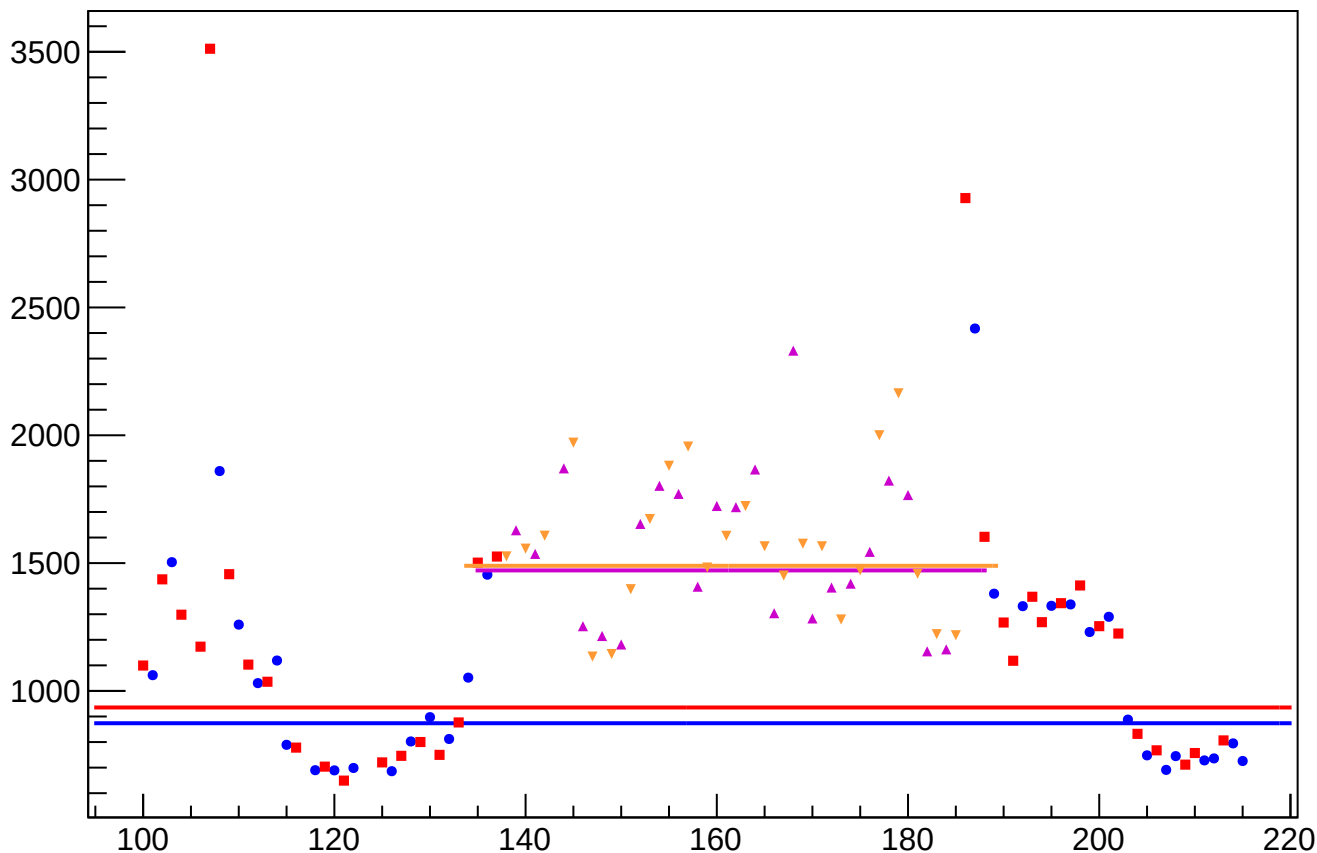
Right: -80.024 $\pm$ 161.437 χ^2/NDF : 157.1/63

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

Out: 281.128 $\pm$ 199.109 χ^2/NDF : 154.2/56

All: -167.990 $\pm$ 136.328 χ^2/NDF : 216.7/110

asym_usl_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 935.273+/-0.169 χ^2/NDF : 3239595.6/32

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

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

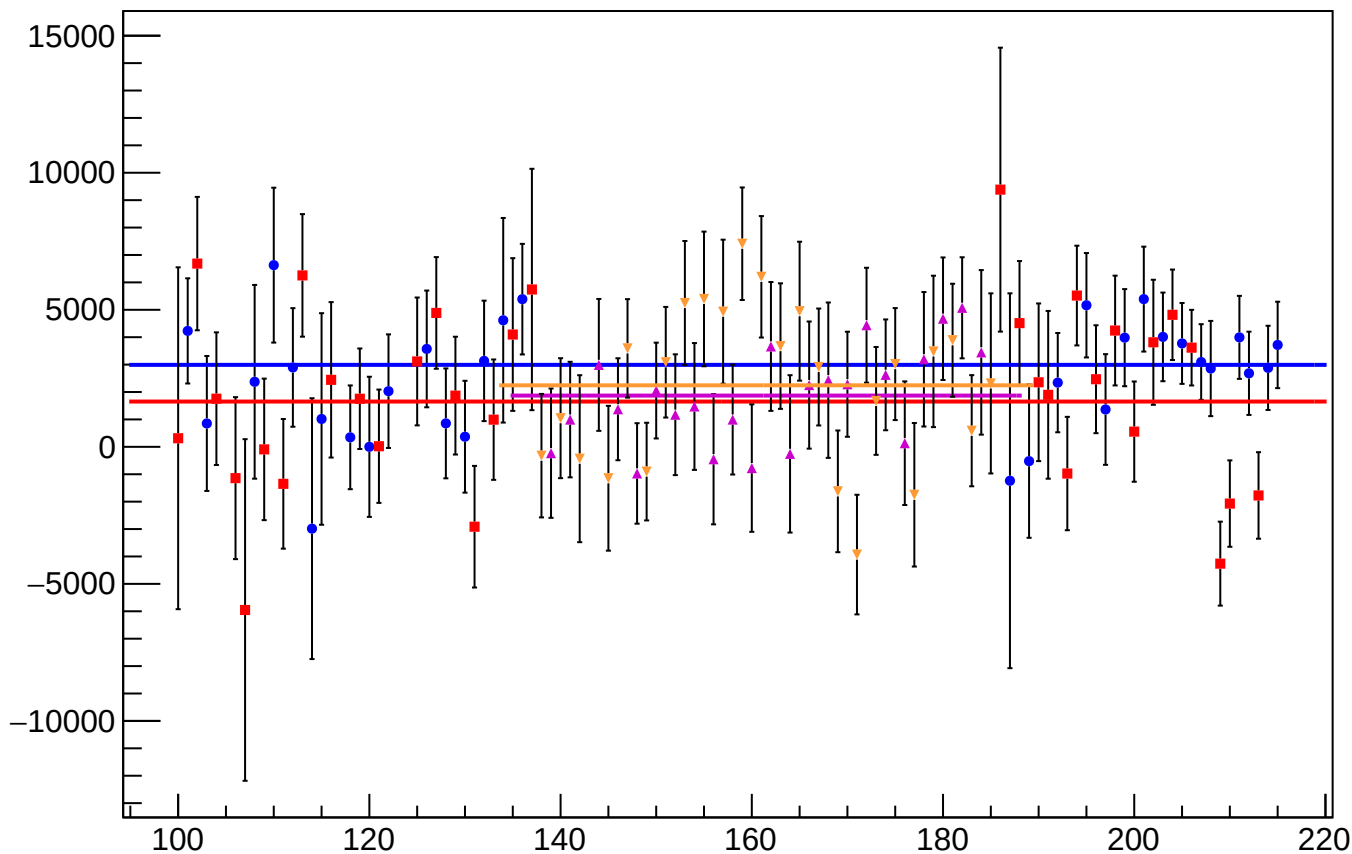
Right: 901.829+/-0.114 χ^2/NDF : 5877332.8/63

In: 1036.090+/-0.132 χ^2/NDF : 7713529.0/53

Out: 1103.742+/-0.141 χ^2/NDF : 7527460.2/56

All: 1067.805+/-0.096 χ^2/NDF : 15363638.8/100

asym_usl_mean vs Slug, Sign Corrected



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

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

Right Out: 1652.331 $\pm$ 376.919 χ^2 /NDF: 66.6/32

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

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

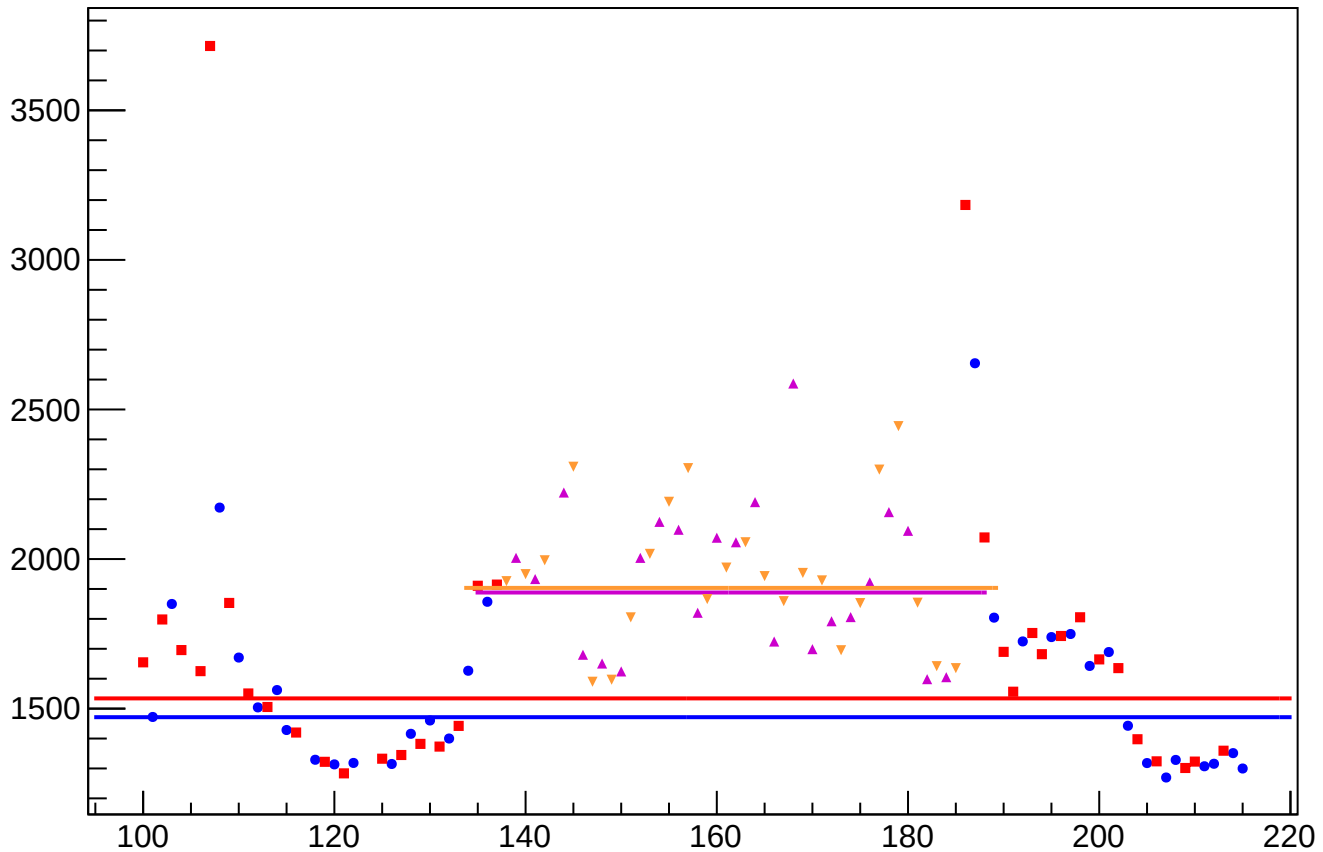
Right: 2357.059 $\pm$ 259.367 χ^2 /NDF: 93.3/63

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

Out: 1892.363 $\pm$ 290.643 χ^2 /NDF:106.2/56

All: 2239.049 $\pm$ 202.093 χ^2 /NDF: 147.6/110

asym_usl_rms vs Slug, Sign Corrected



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

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

Right Out: 1534.173+/-0.267 χ^2/NDF : 1075178.3/32

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

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

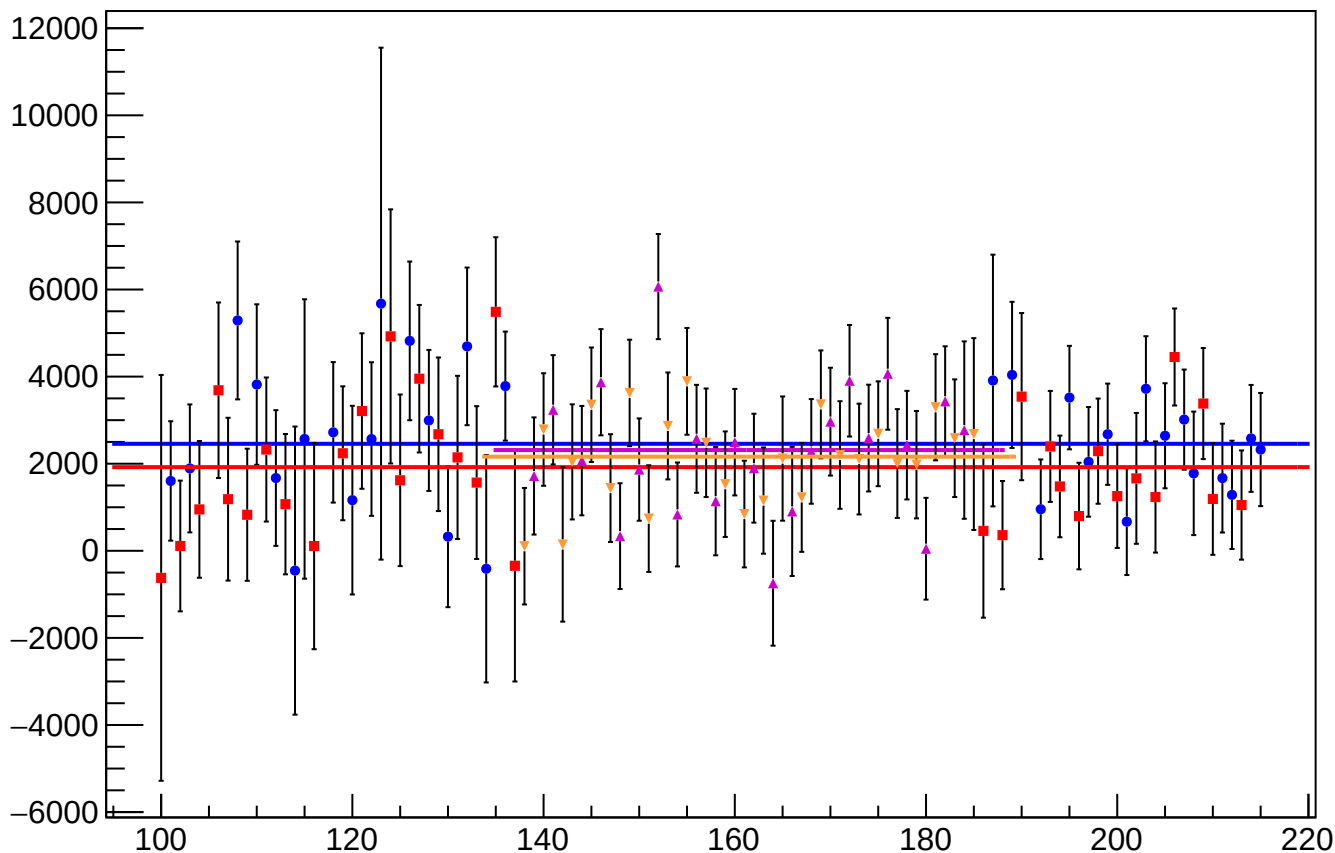
Right: 1501.117+/-0.183 χ^2/NDF : 1770668.2/63

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

Out: 1683.932+/-0.206 χ^2/NDF : 2315777.8/56

All: 1656.194+/-0.143 χ^2/NDF : 4558016.0/11

reg_asym_usr_mean vs Slug, Sign Corrected



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

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

Right Out: 1921.312 $\pm$ 267.588 χ^2 /NDF: 24.8/32

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

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

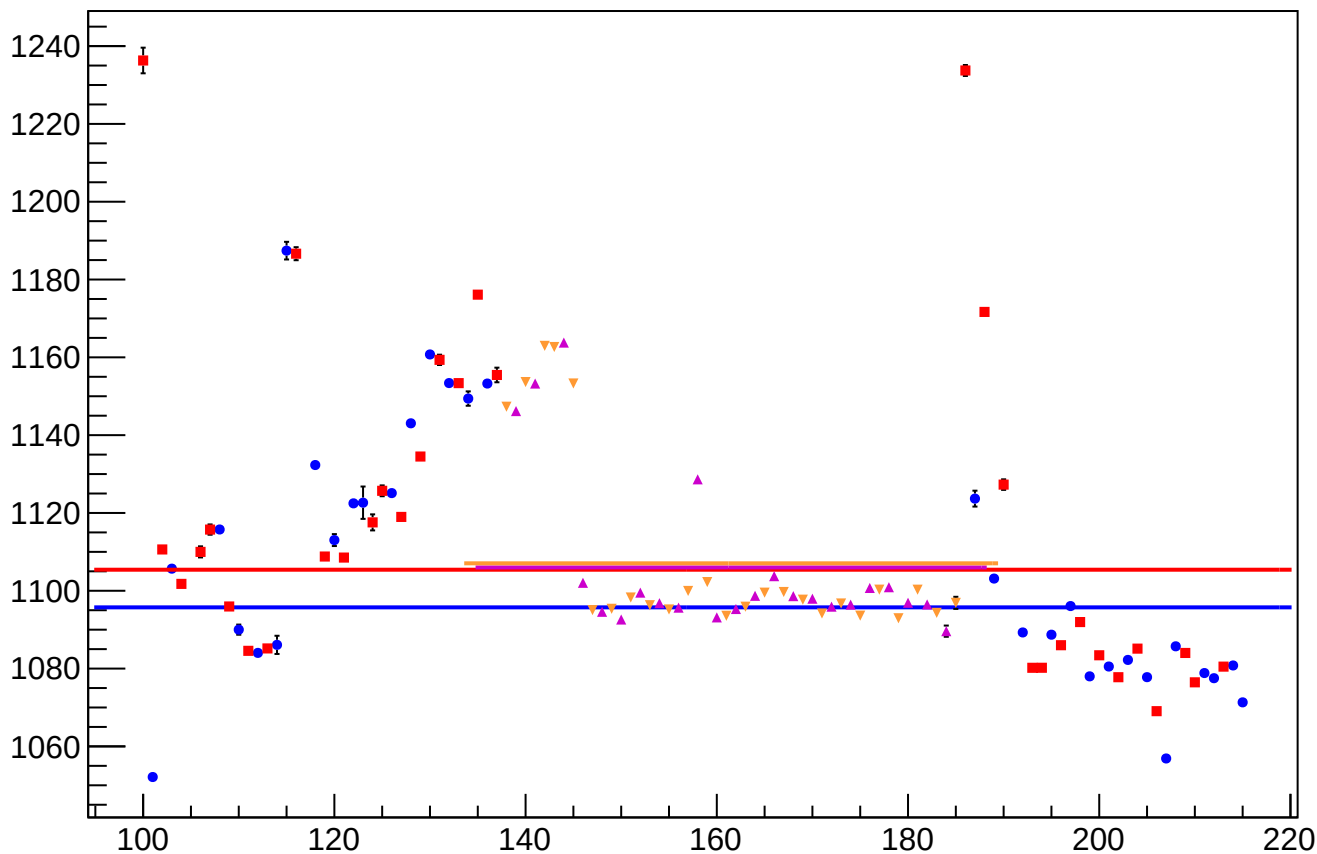
Right: 2193.730 $\pm$ 187.588 χ^2 /NDF: 48.3/64

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

Out: 2045.972 $\pm$ 185.551 χ^2 /NDF:40.3/57

All: 2214.939 $\pm$ 131.535 χ^2 /NDF: 94.9/112

reg_asym_usr_rms vs Slug, Sign Corrected



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

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

Right Out: 1105.413 $\pm$ 0.189 χ^2 /NDF: 36016.3/32

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

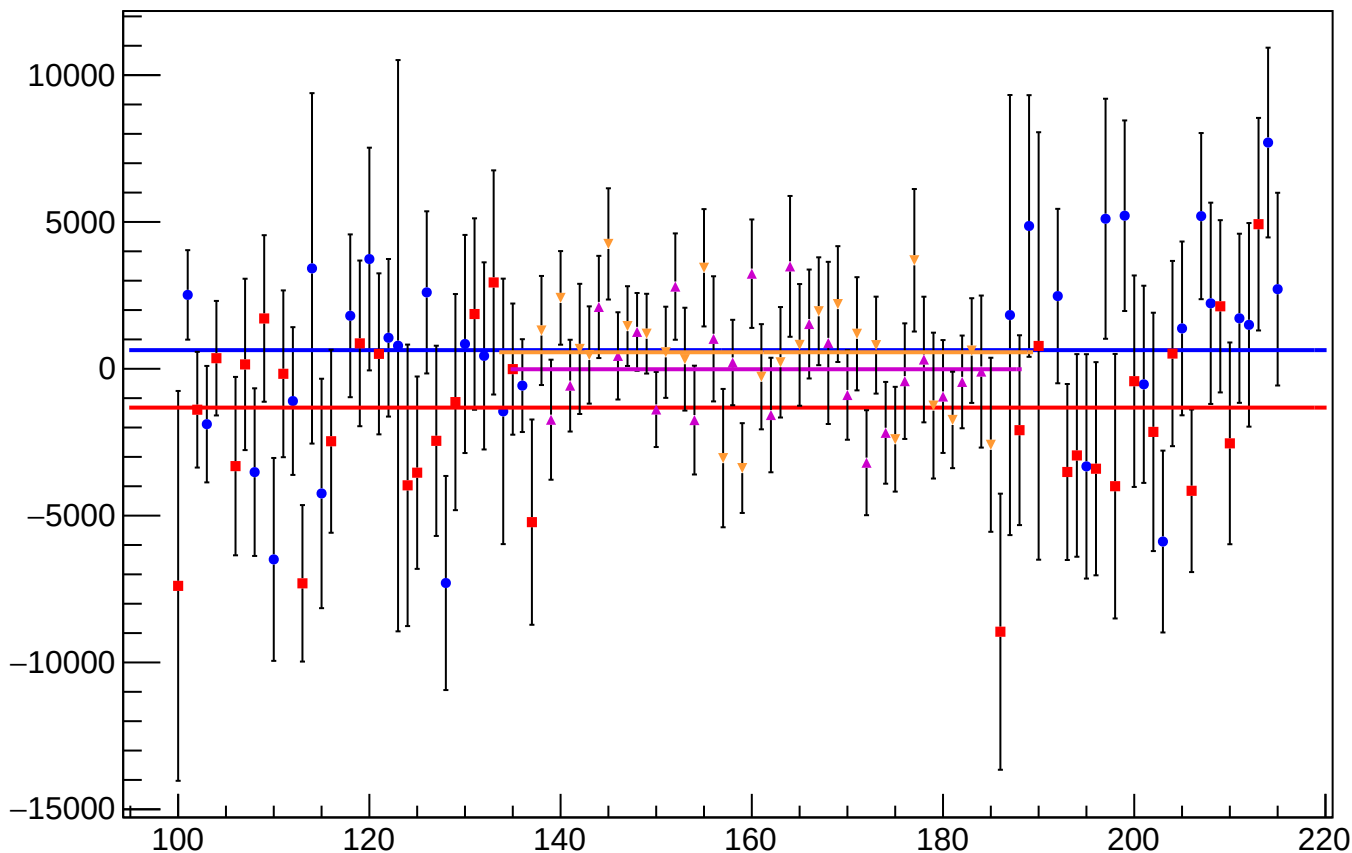
Right: 1100.492 $\pm$ 0.133 χ^2 /NDF: 61694.7/64

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

Out: 1106.266 $\pm$ 0.131 χ^2 /NDF:51231.1/57

All: 1103.567 $\pm$ 0.093 χ^2 /NDF: 89495.2/112

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 635.236+/-524.570 χ^2/NDF : 37.1/31

Left Out: 563.282+/-360.901 χ^2/NDF :26.8/24

Right Out: -1321.739+/-542.507 χ^2/NDF : 24.7/32

Left In: -15.520+/-366.854 χ^2/NDF :20.1/22

Left: 278.615+/-257.275 χ^2/NDF : 48.2/47

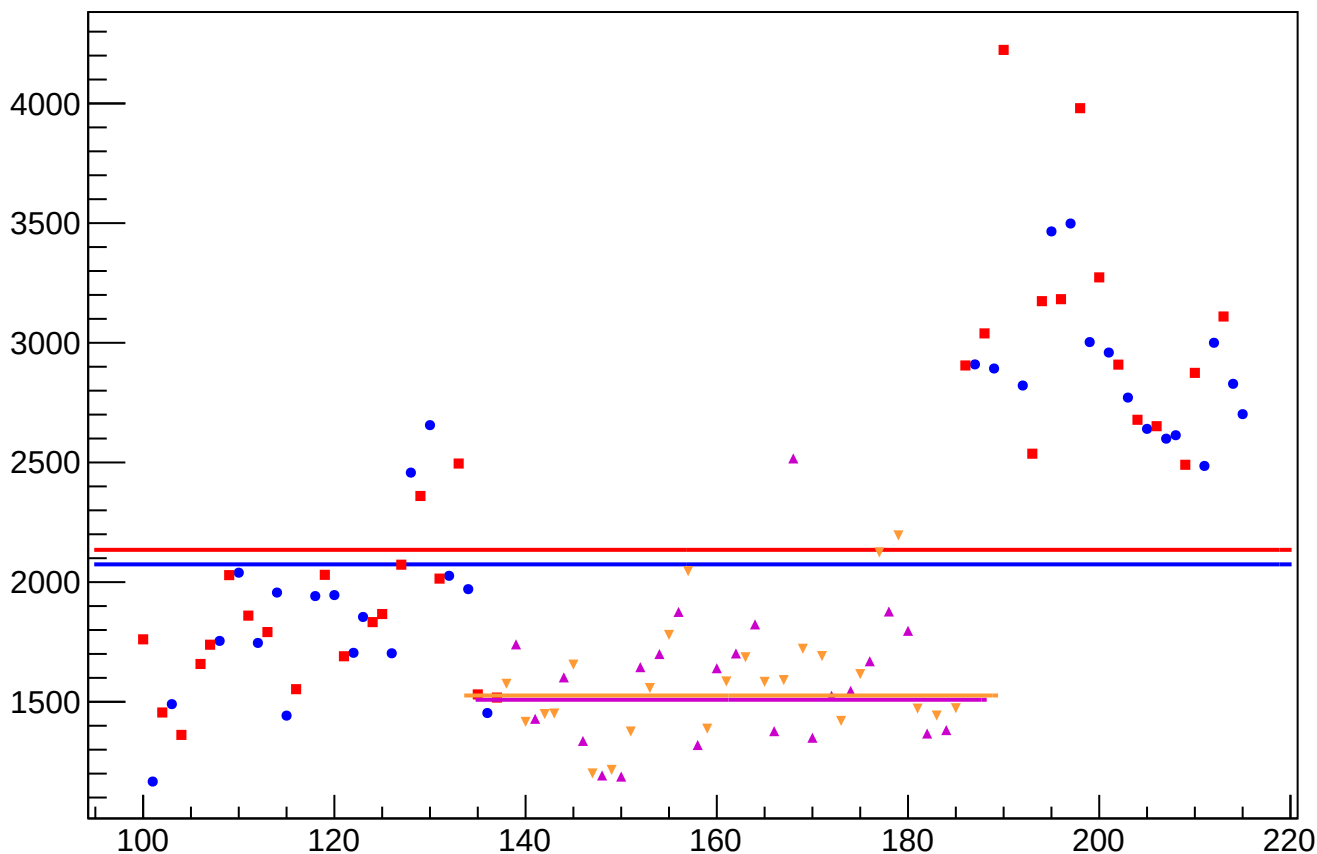
Right: -310.365+/-377.109 χ^2/NDF : 68.5/64

In: 198.217+/-300.632 χ^2/NDF :58.3/54

Out: -15.014+/-300.485 χ^2/NDF :59.8/57

All: 91.549+/-212.527 χ^2/NDF : 118.3/112

asym_usr_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 2134.933+/-0.384 χ^2/NDF : 2847115.0/32

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

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

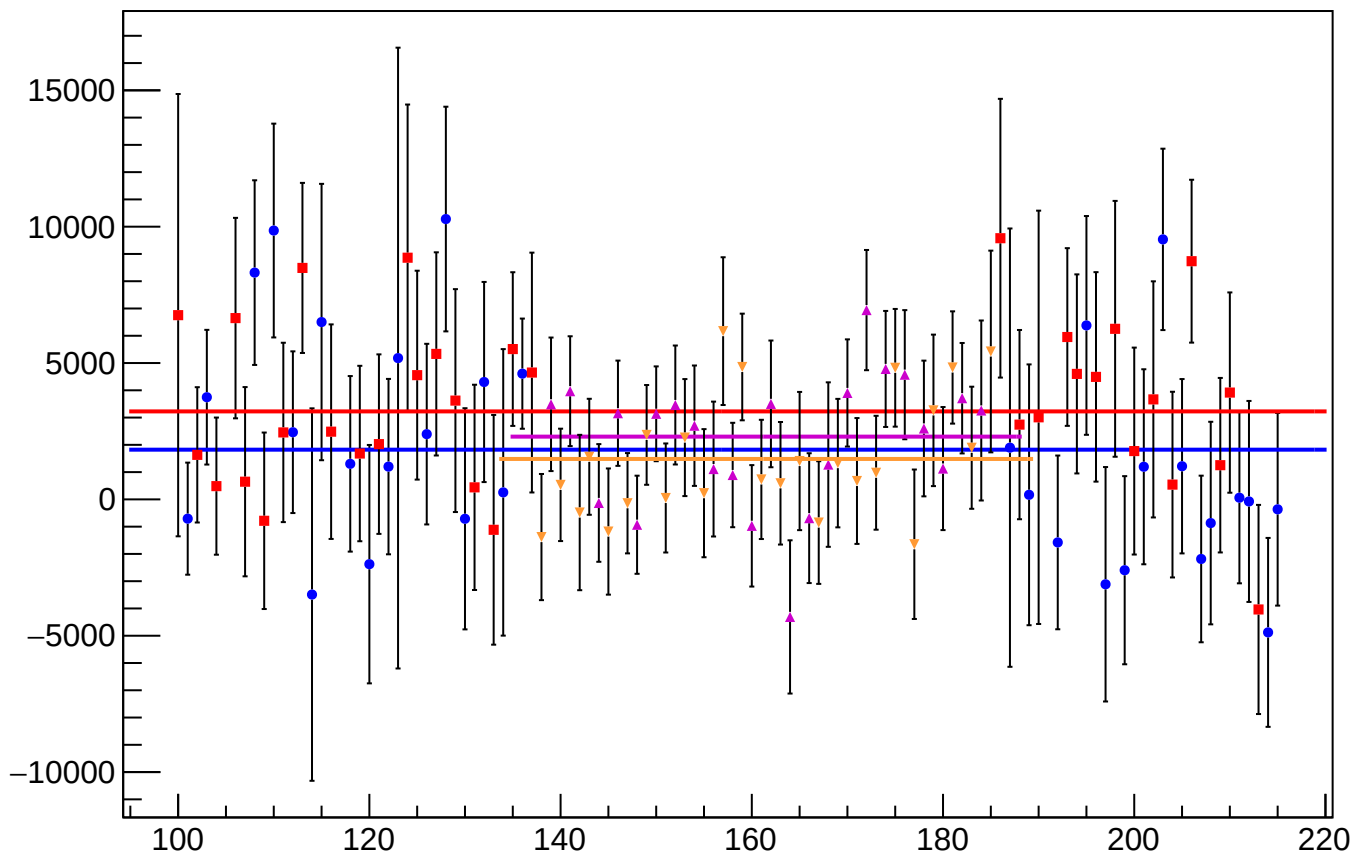
Right: 2103.574+/-0.267 χ^2/NDF : 6007568.1/64

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

Out: 1713.083+/-0.212 χ^2/NDF : 5345318.7/57

All: 1703.733+/-0.150 χ^2/NDF : 10990243.0/111

asym_usr_mean vs Slug, Sign Corrected



Right In: 1822.738+/-609.739 χ^2/NDF : 37.6/31

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

Right Out: 3226.262+/-625.493 χ^2/NDF : 23.0/32

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

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

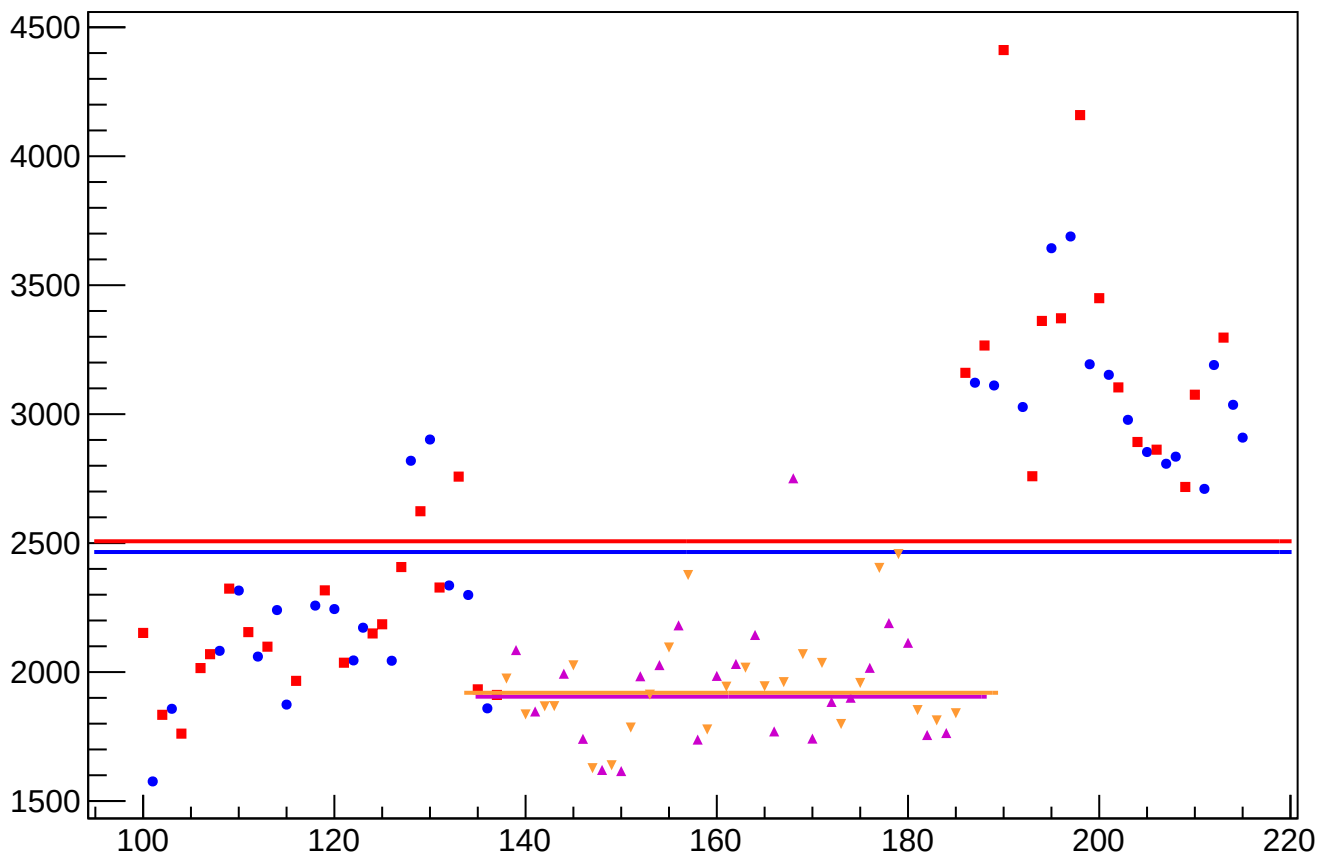
Right: 2506.601+/-436.614 χ^2/NDF : 63.1/64

In: 2128.147+/-366.730 χ^2/NDF : 62.8/54

Out: 2077.104+/-365.280 χ^2/NDF : 49.0/57

All: 2102.525+/-258.803 χ^2/NDF : 111.8/112

asym_usr_rms vs Slug, Sign Corrected



Right In: 2465.487+/-0.431 χ^2/NDF : 1801685.9/31

Left Out: 1919.732+/-0.318 χ^2/NDF : 366218.1/24

Right Out: 2507.138+/-0.442 χ^2/NDF : 1782929.1/32

Left In: 1904.629+/-0.325 χ^2/NDF : 447350.7/22

Left: 1912.331+/-0.227 χ^2/NDF : 814672.9/47

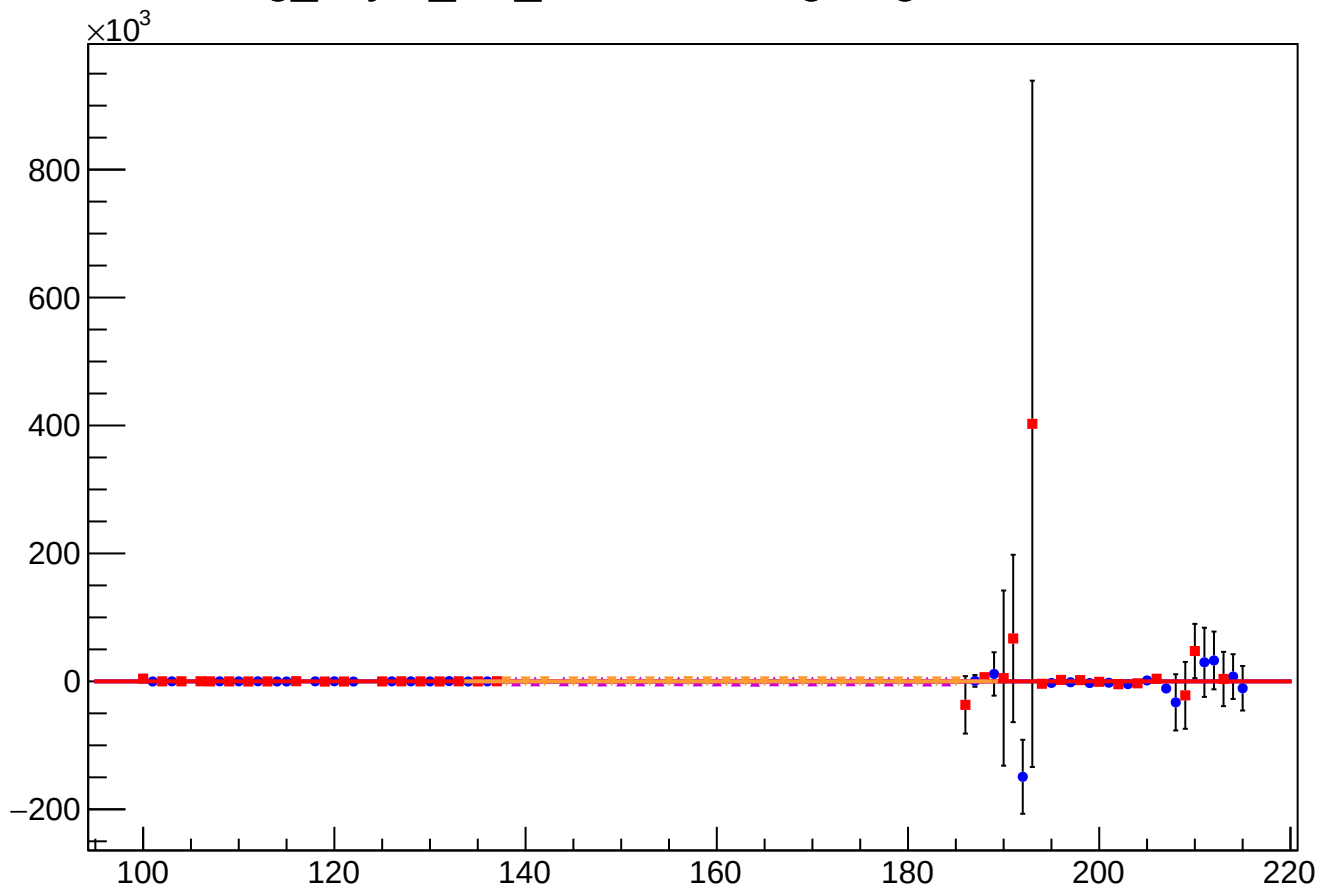
Right: 2485.781+/-0.309 χ^2/NDF : 3589162.3/64

In: 2107.518+/-0.259 χ^2/NDF : 3329079.5/54

Out: 2120.061+/-0.258 χ^2/NDF : 3311454.4/57

All: 2113.814+/-0.183 χ^2/NDF : 6641708.4/11

reg_asym_dsl_mean vs Slug, Sign Corrected



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

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

Right Out: 1.857 ± 36.747 $\chi^2/\text{NDF}: 20.9/32$

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

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

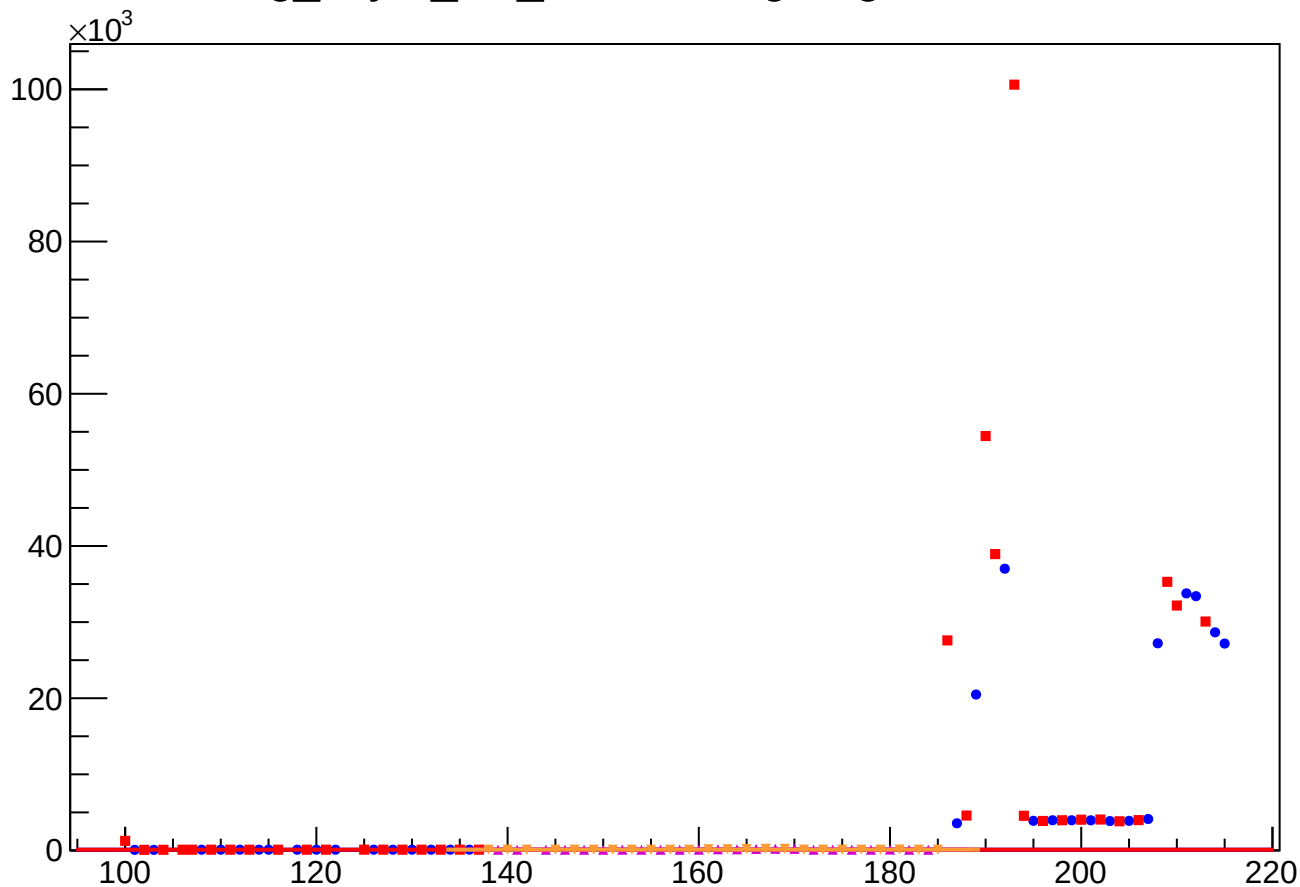
Right: -0.244 ± 25.989 $\chi^2/\text{NDF}: 53.9/63$

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

Out: 8.743 ± 21.365 $\chi^2/\text{NDF}: 56.8/56$

All: 12.154 ± 15.124 $\chi^2/\text{NDF}: 126.7/110$

reg_asym_dsl_rms vs Slug, Sign Corrected



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

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

Right Out: 98.293 $\pm$ 0.026 χ^2 /NDF: 15544339.4/32

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

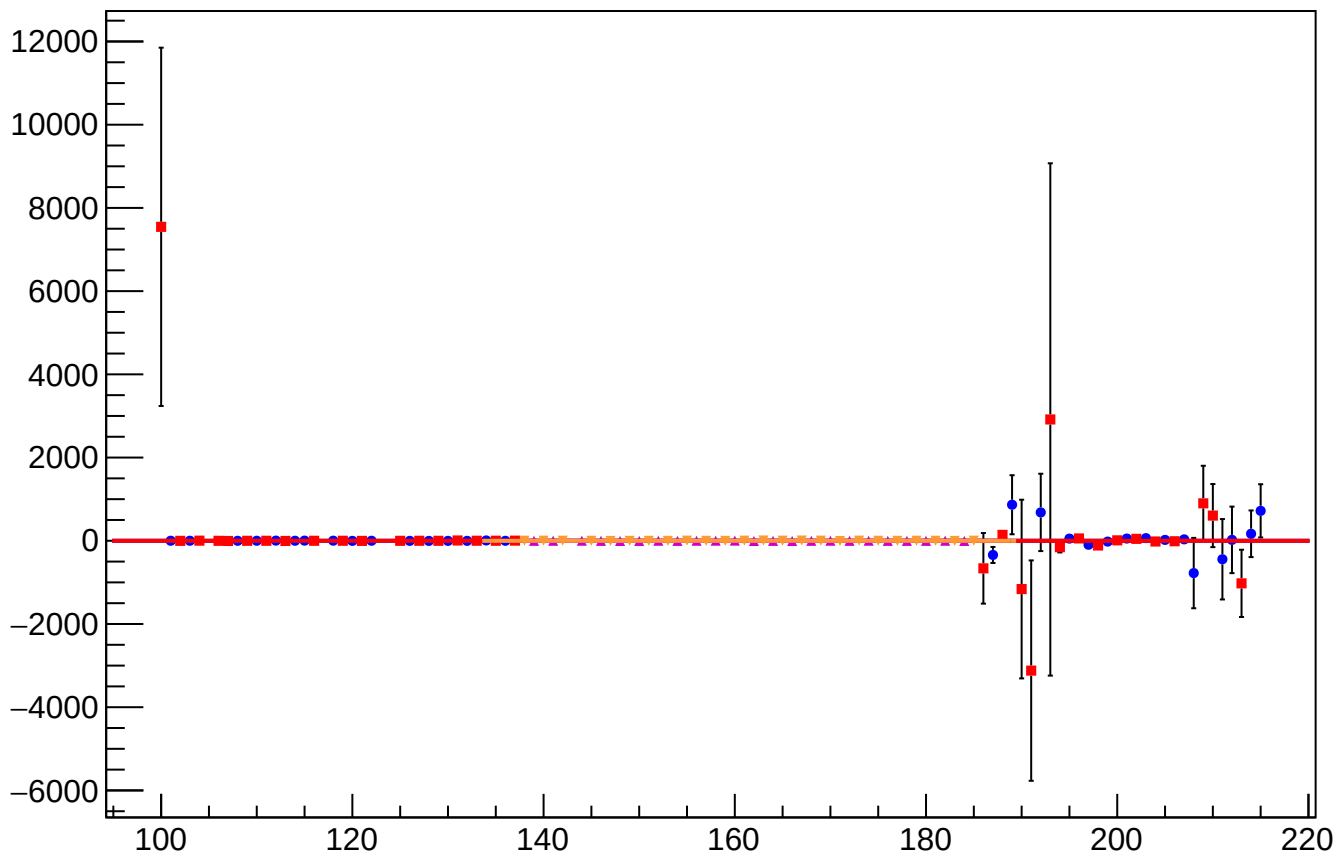
Right: 97.224 $\pm$ 0.018 χ^2 /NDF: 33553627.7/63

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

Out: 104.758 $\pm$ 0.015 χ^2 /NDF: 17072839.3/56

All: 104.262 $\pm$ 0.011 χ^2 /NDF: 36701657.8/11

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.398 ± 0.617 $\chi^2/\text{NDF}: 21.8/30$

Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$

Right Out: -0.346 ± 0.644 $\chi^2/\text{NDF}: 32.9/32$

Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.306 ± 0.339 $\chi^2/\text{NDF}: 56.0/46$

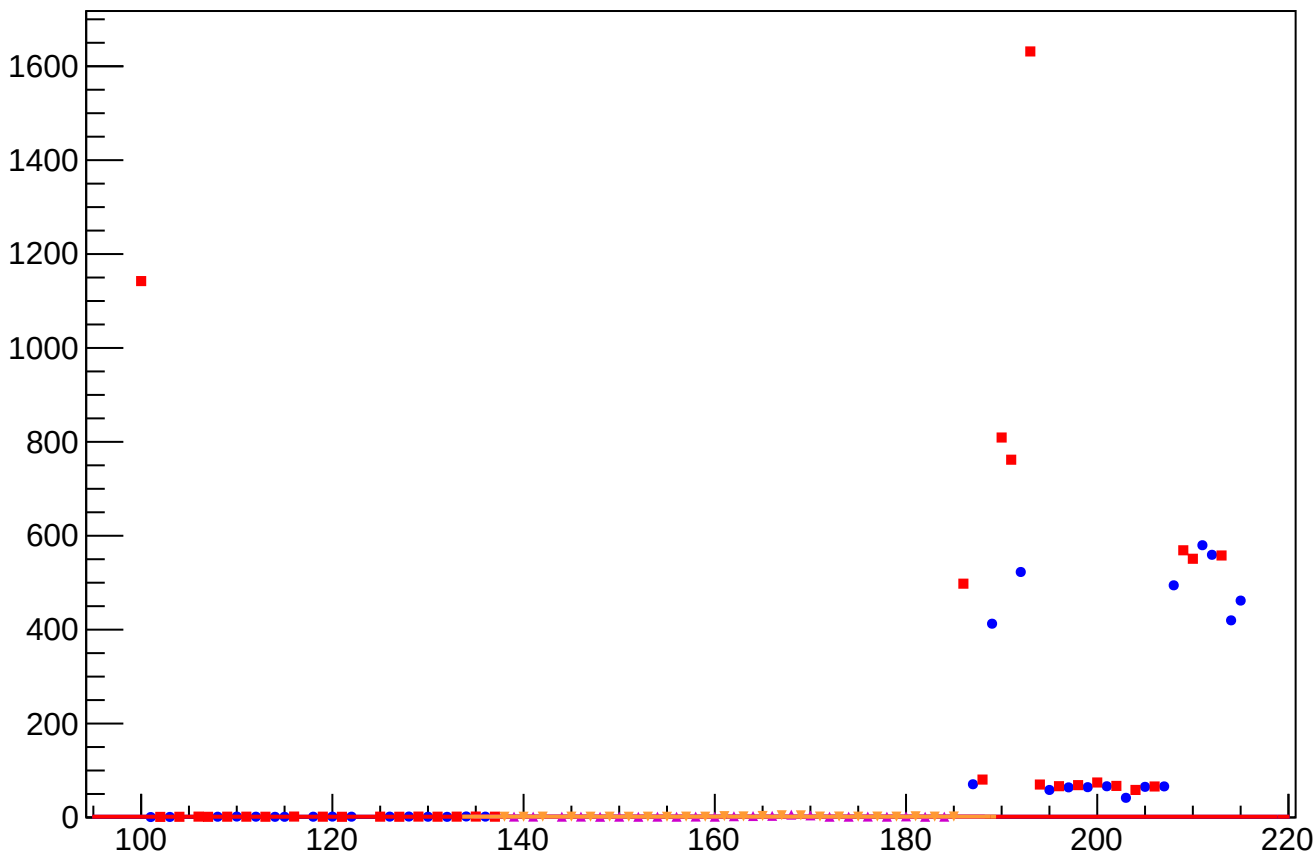
Right: 0.041 ± 0.445 $\chi^2/\text{NDF}: 55.4/63$

In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 47.2/53$

Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 63.5/56$

All: -0.178 ± 0.270 $\chi^2/\text{NDF}: 111.8/110$

asym_dsl_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 1.585+/-0.000 χ^2/NDF : 13730884.6/32

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

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

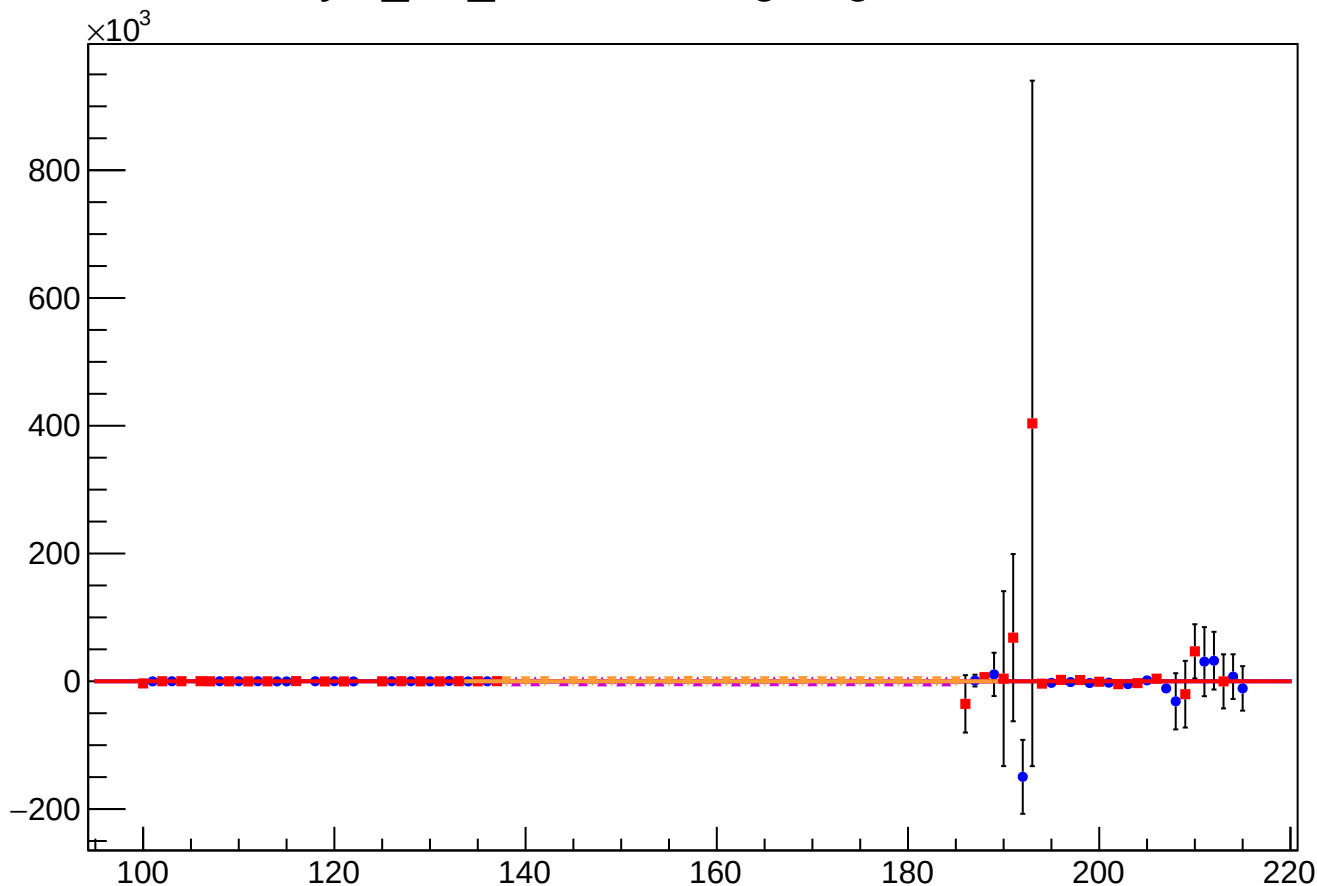
Right: 1.515+/-0.000 χ^2/NDF : 29386183.8/63

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

Out: 1.706+/-0.000 χ^2/NDF : 15438642.5/56

All: 1.687+/-0.000 χ^2/NDF : 33380114.8/110

asym_dsl_mean vs Slug, Sign Corrected



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

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

Right Out: 1.620 ± 36.757 χ^2/NDF : 20.3/32

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

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

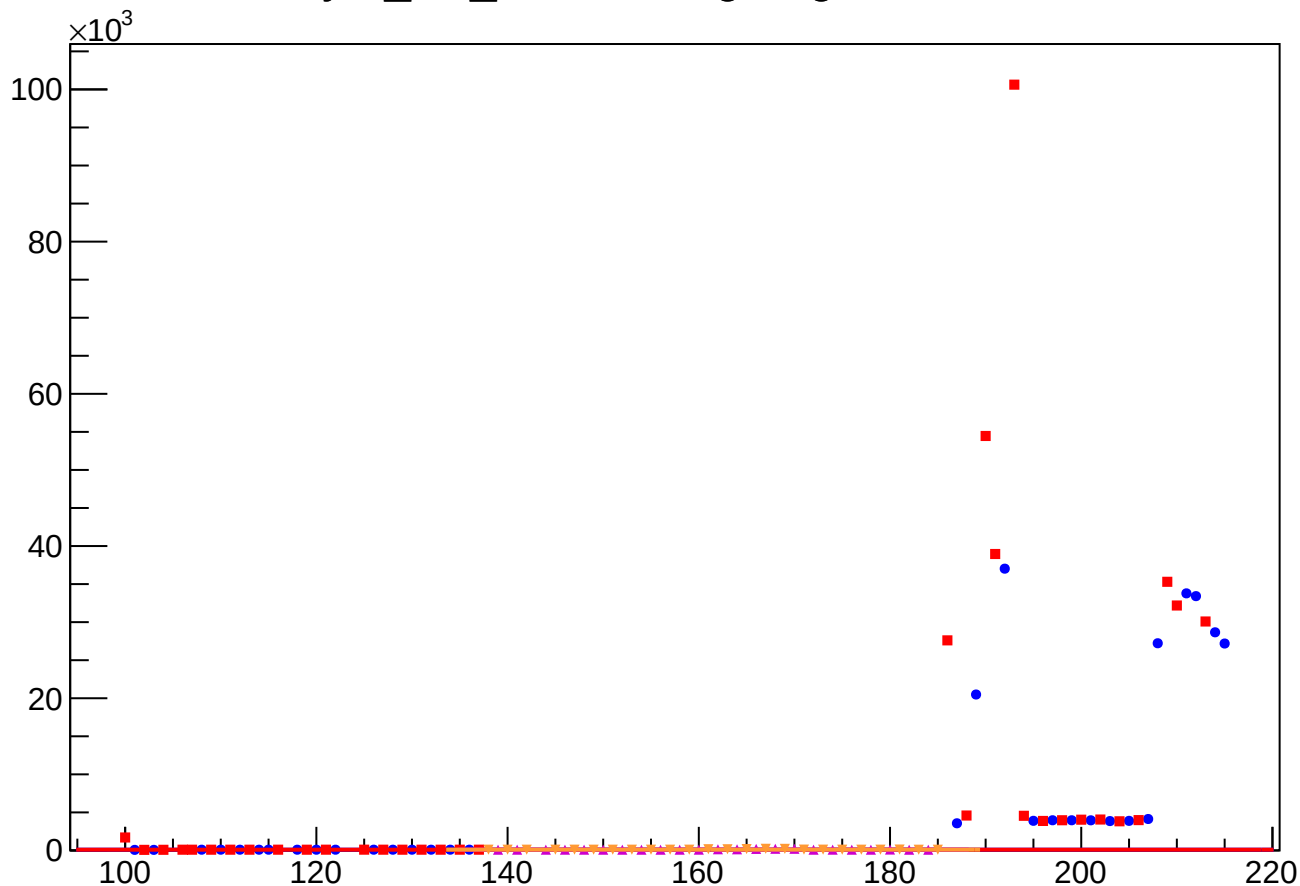
Right: -0.219 ± 25.996 χ^2/NDF : 53.5/63

In: 16.024 ± 21.419 χ^2/NDF : 69.3/53

Out: 9.118 ± 21.372 χ^2/NDF : 56.1/56

All: 12.564 ± 15.129 χ^2/NDF : 125.4/110

asym_dsl_rms vs Slug, Sign Corrected



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

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

Right Out: 98.302 $\pm$ 0.026 χ^2 /NDF: 15549645.7/32

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

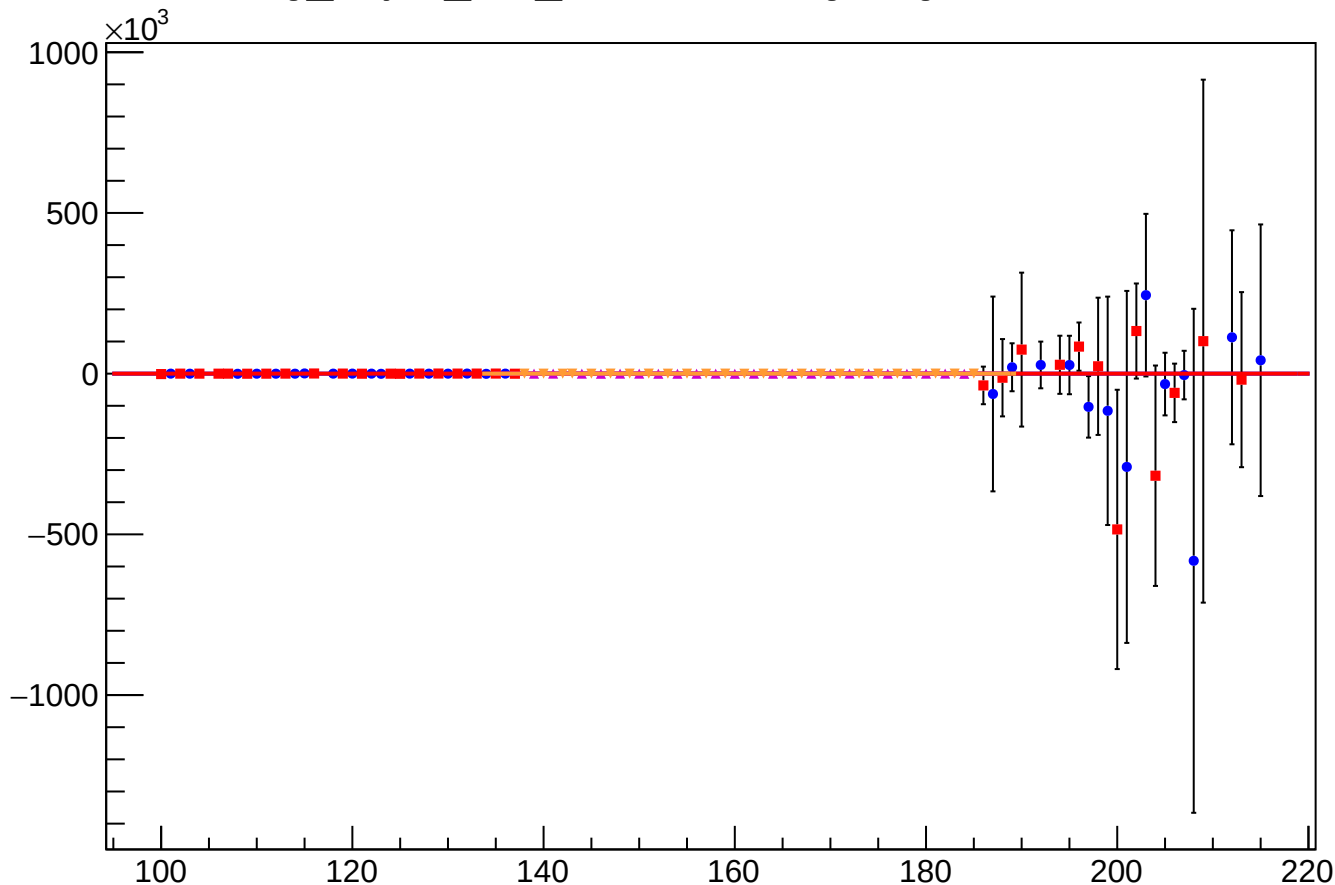
Right: 97.241 $\pm$ 0.018 χ^2 /NDF: 33558859.0/63

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

Out: 104.781 $\pm$ 0.015 χ^2 /NDF: 17079892.8/56

All: 104.288 $\pm$ 0.011 χ^2 /NDF: 36710030.7/111

reg_asym_dsr_mean vs Slug, Sign Corrected



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

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

Right Out: 53.389 ± 47.775 $\chi^2/\text{NDF}: 20.6/30$

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

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

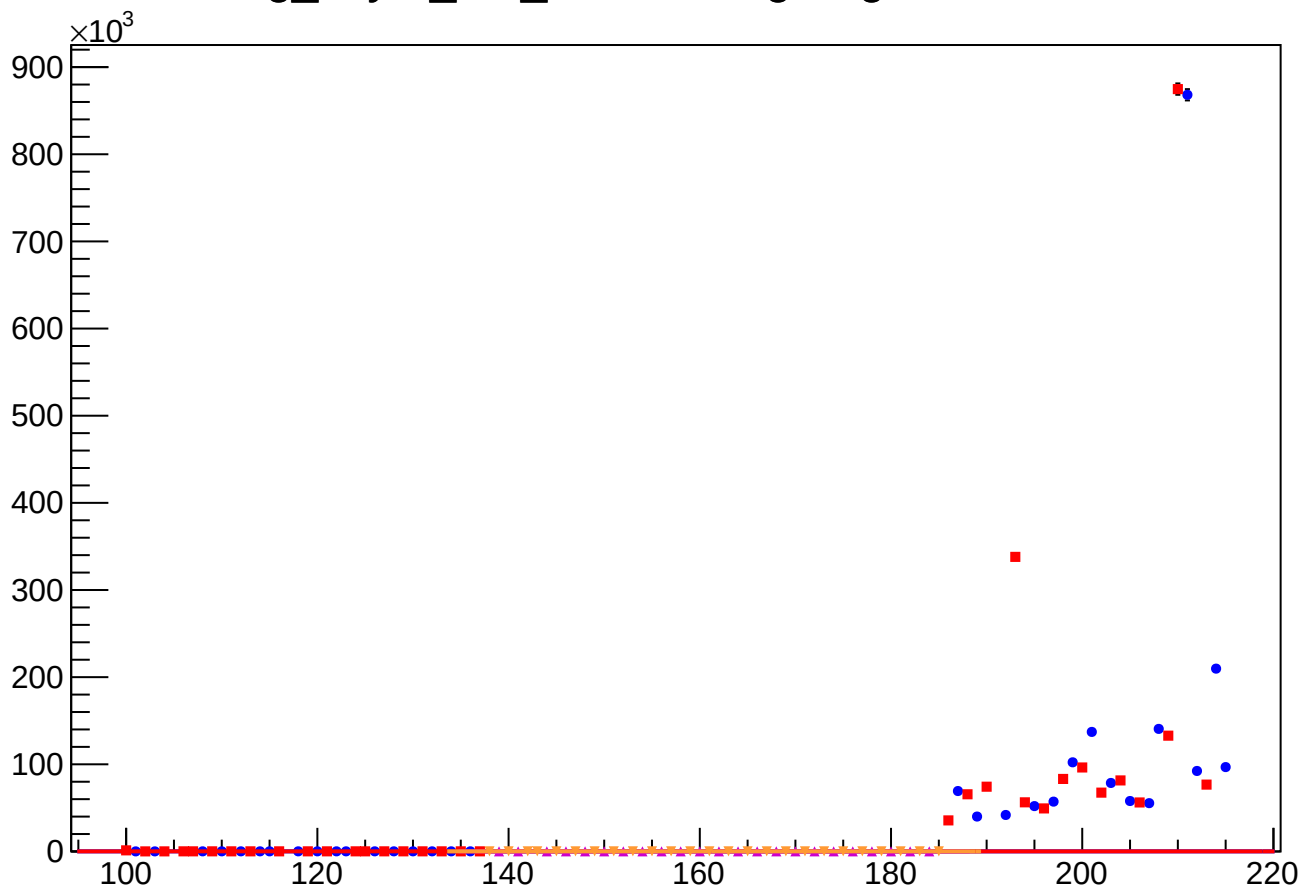
Right: 12.502 ± 33.447 $\chi^2/\text{NDF}: 40.1/60$

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

Out: 7.734 ± 26.623 $\chi^2/\text{NDF}: 34.0/55$

All: -22.060 ± 18.939 $\chi^2/\text{NDF}: 74.3/108$

reg_asym_dsr_rms vs Slug, Sign Corrected



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

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

Right Out: 124.841 $\pm$ 0.034 χ^2 /NDF: 6452371.0/32

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

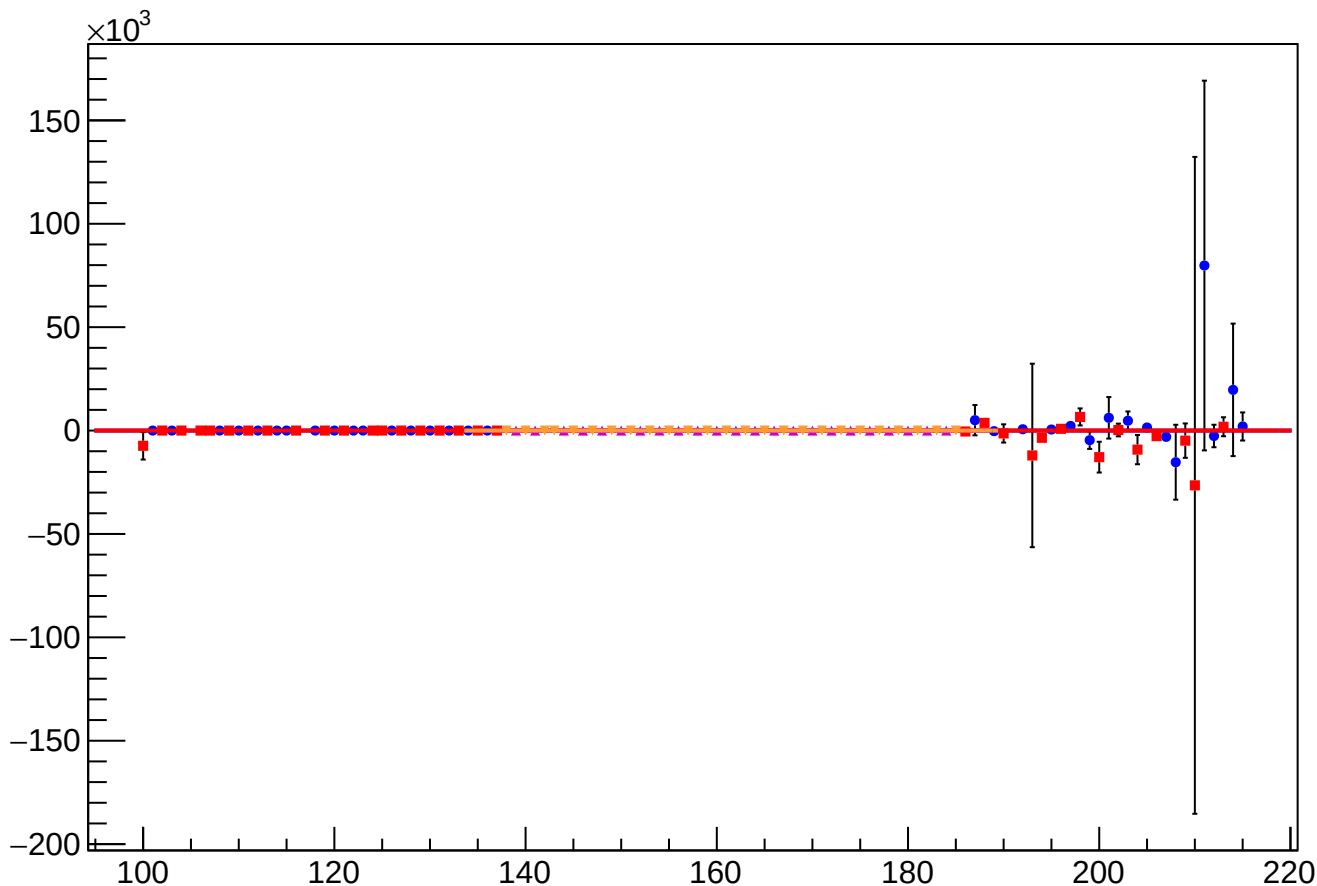
Right: 121.293 $\pm$ 0.024 χ^2 /NDF: 13371183.1/64

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

Out: 133.815 $\pm$ 0.019 χ^2 /NDF: 6555165.1/57

All: 132.529 $\pm$ 0.013 χ^2 /NDF: 13704312.7/11

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 $\chi^2/\text{NDF}: 25.5/31$

Left Out: 0.490 ± 0.572 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.639 ± 0.852 $\chi^2/\text{NDF}: 32.7/32$

Left In: 0.290 ± 0.579 $\chi^2/\text{NDF}: 20.7/22$

Left: 0.391 ± 0.407 $\chi^2/\text{NDF}: 49.7/47$

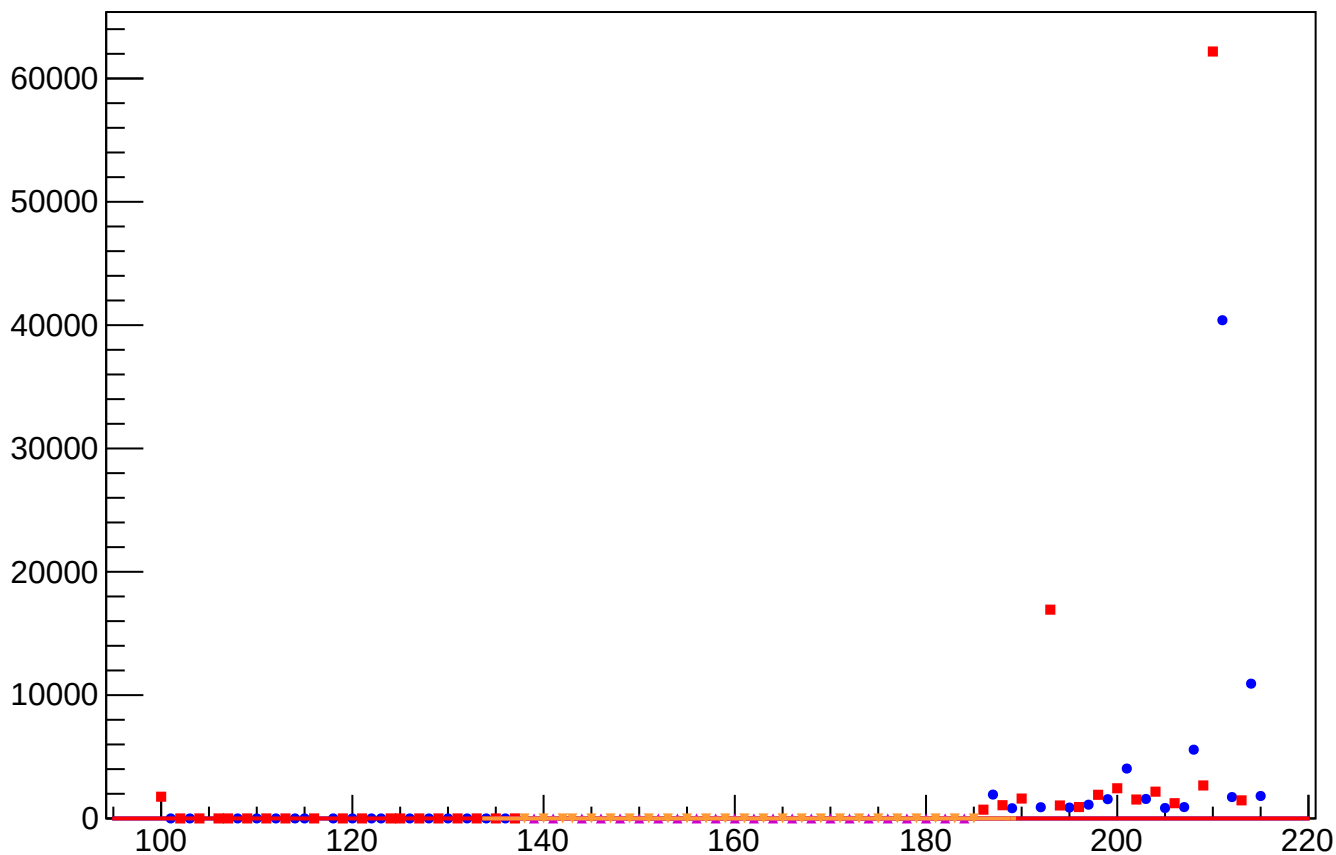
Right: -0.681 ± 0.587 $\chi^2/\text{NDF}: 58.2/64$

In: -0.052 ± 0.471 $\chi^2/\text{NDF}: 47.2/54$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 62.9/57$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 110.2/112$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 6807085.5/31

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

Right Out: 2.065+/-0.001 χ^2/NDF : 6790051.4/32

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

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

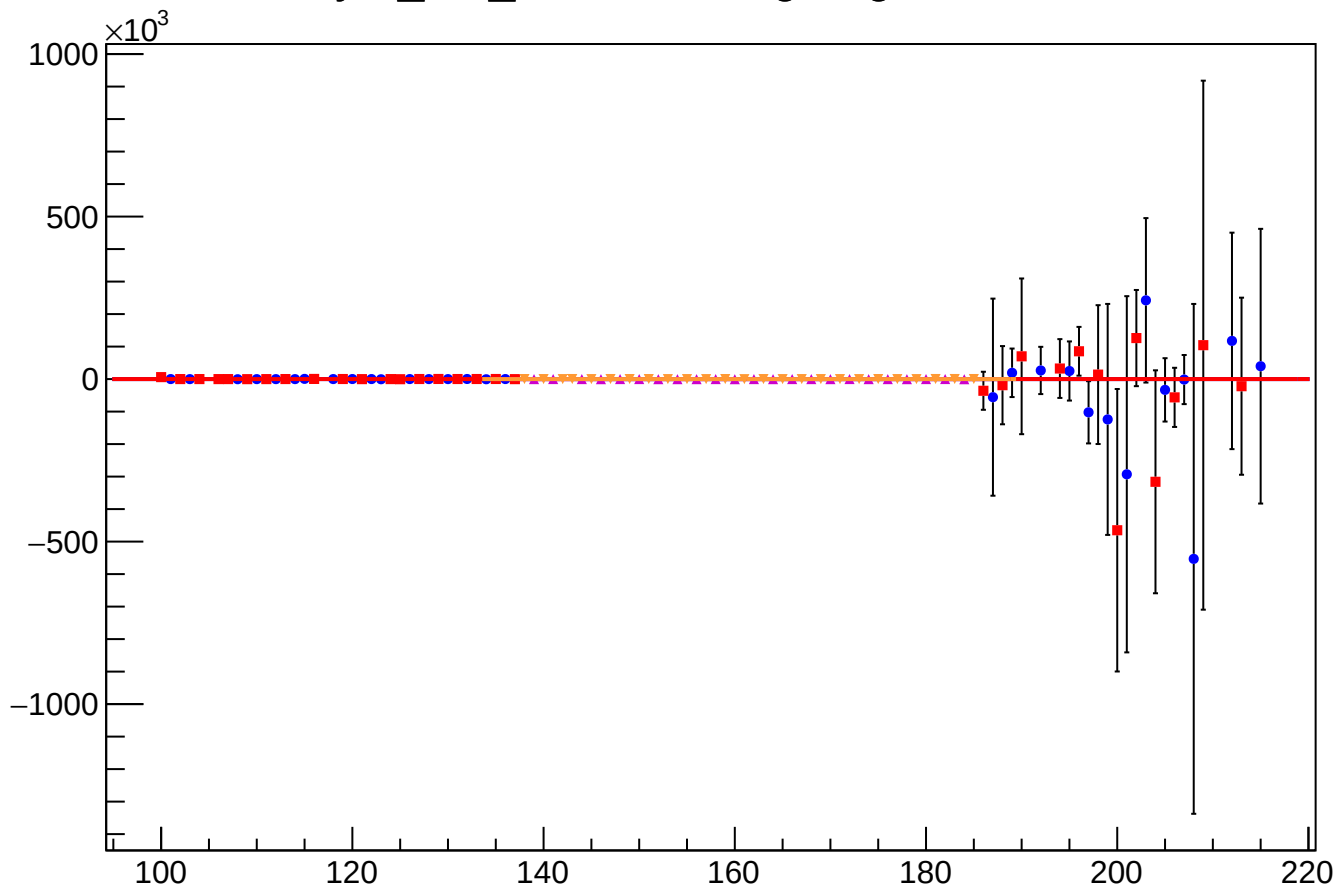
Right: 1.961+/-0.000 χ^2/NDF : 13653997.2/64

In: 2.083+/-0.000 χ^2/NDF : 7532260.7/54

Out: 2.201+/-0.000 χ^2/NDF : 7238425.8/57

All: 2.141+/-0.000 χ^2/NDF : 14833049.4/112

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.063+/-46.854 χ^2 /NDF: 18.0/29

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

Right Out: 54.291+/-47.789 χ^2 /NDF: 21.1/30

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

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

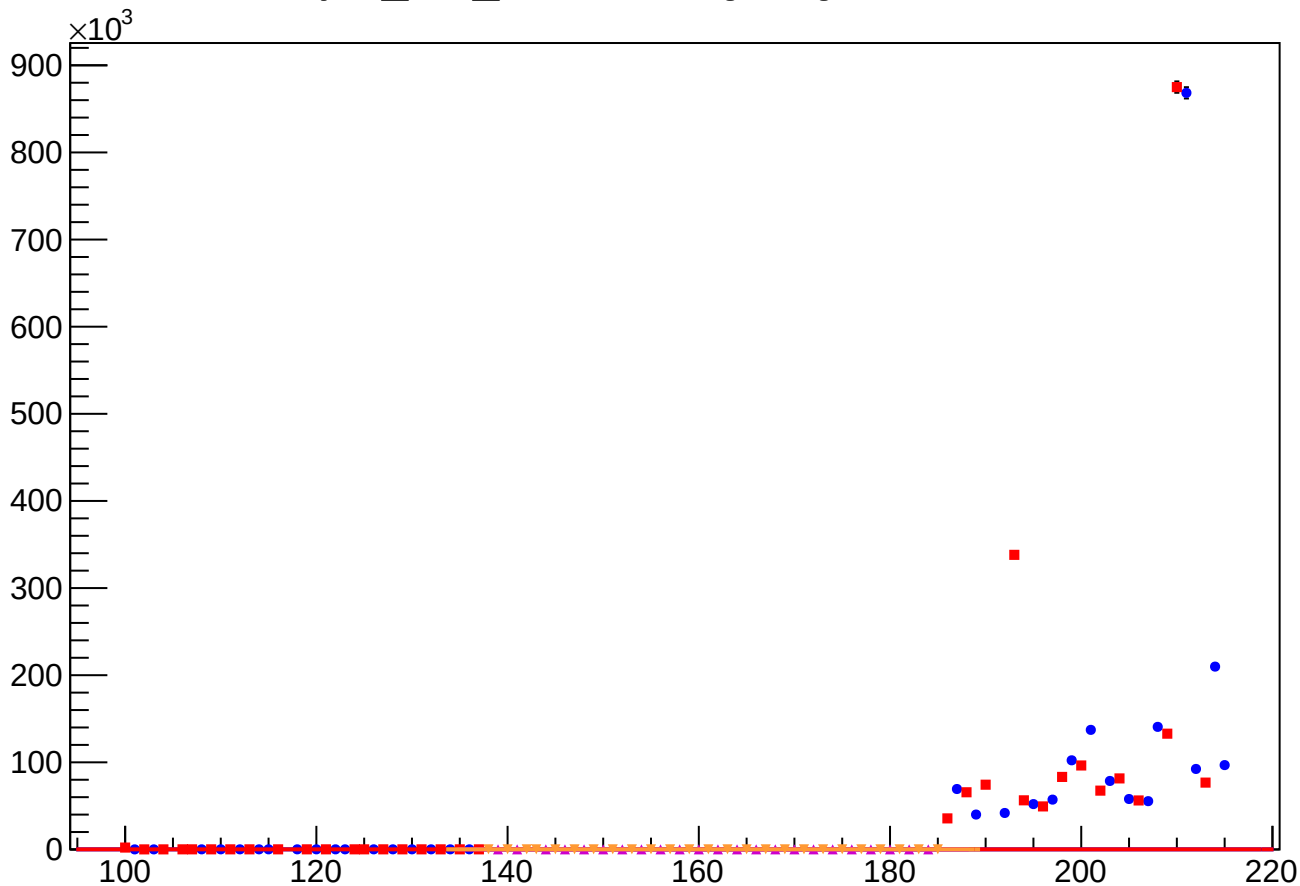
Right: 13.830+/-33.456 χ^2 /NDF: 40.5/60

In: -51.938+/-26.954 χ^2 /NDF:37.9/52

Out: 7.632+/-26.631 χ^2 /NDF:34.3/55

All: -21.793+/-18.944 χ^2 /NDF: 74.6/108

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.914 $\pm$ 0.033 χ^2 /NDF: 6897318.0/31

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

Right Out: 124.830 $\pm$ 0.034 χ^2 /NDF: 6463039.9/32

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

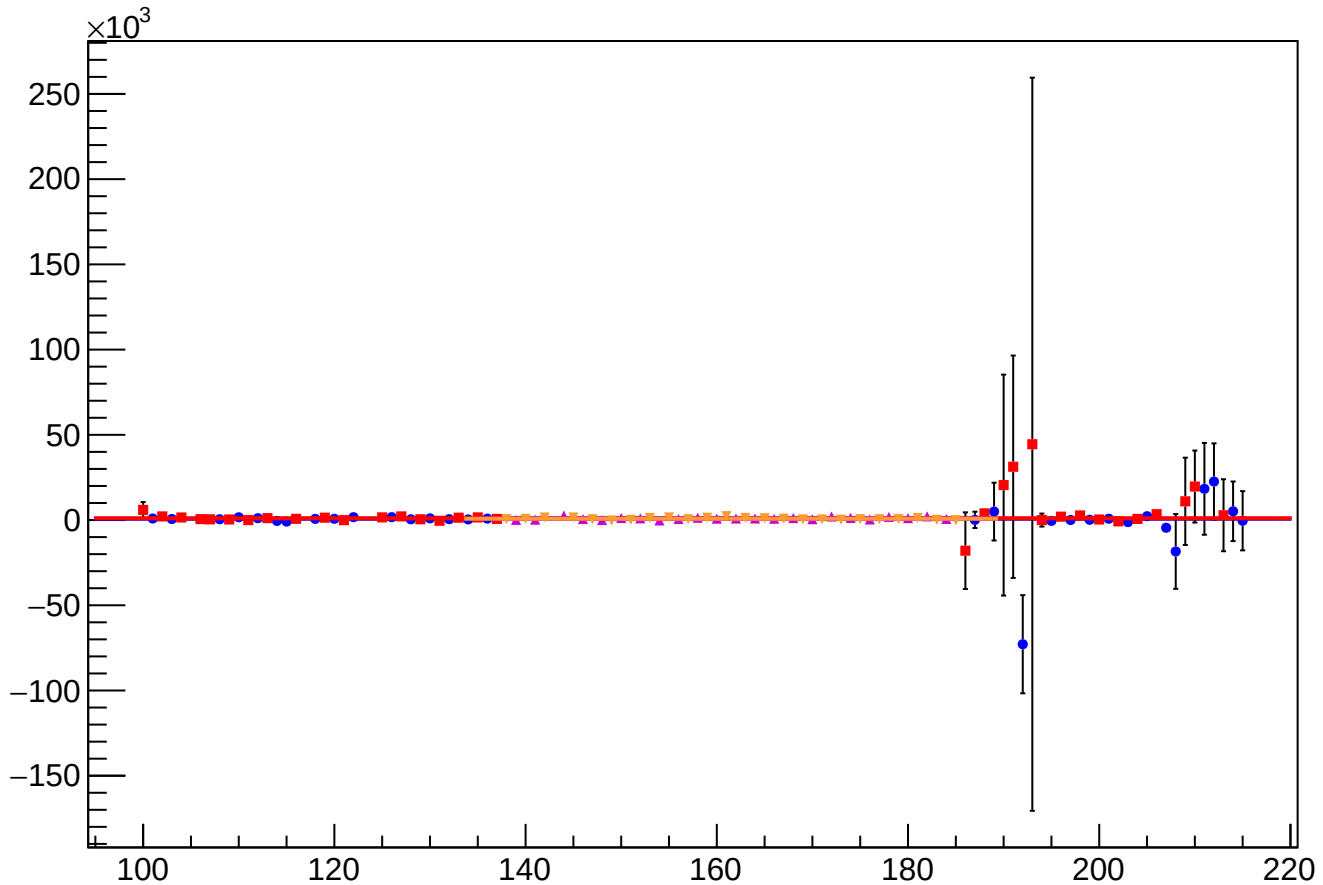
Right: 121.303 $\pm$ 0.024 χ^2 /NDF: 13381715.3/64

In: 131.248 $\pm$ 0.019 χ^2 /NDF:7139877.1/54

Out: 133.838 $\pm$ 0.019 χ^2 /NDF:6566553.9/57

All: 132.558 $\pm$ 0.013 χ^2 /NDF: 13715777.9/11

reg_asym_left_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 1039.694 $\pm$ 207.265 χ^2 /NDF: 19.6/32

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

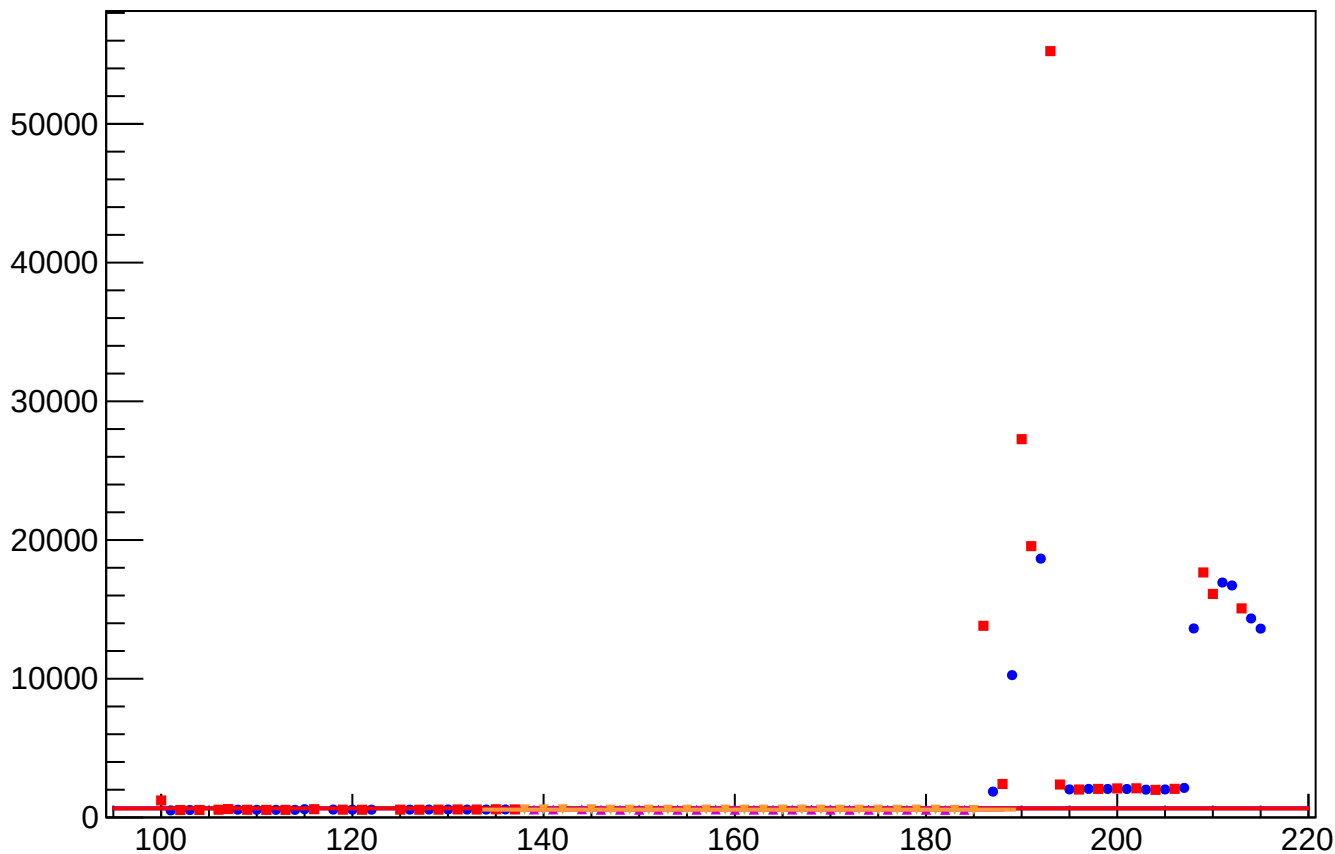
Right: 906.147 $\pm$ 147.455 χ^2 /NDF: 41.5/63

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

Out: 859.676 $\pm$ 112.562 χ^2 /NDF: 39.9/56

All: 886.810 $\pm$ 79.920 χ^2 /NDF: 89.2/110

reg_asym_left_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 653.033+/-0.147 χ^2/NDF : 10077201.2/32

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

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

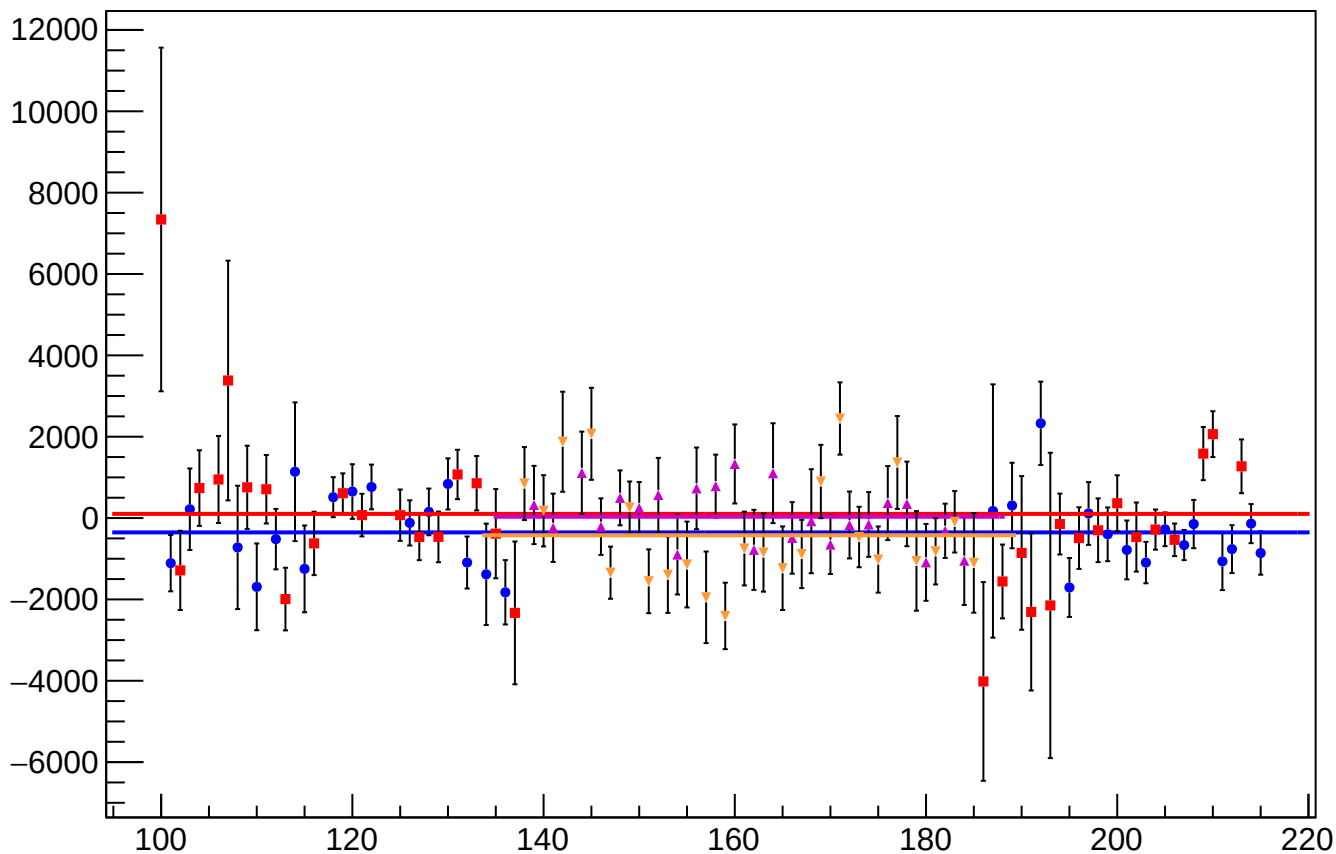
Right: 655.527+/-0.104 χ^2/NDF : 22114280.5/63

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

Out: 590.360+/-0.080 χ^2/NDF :10346158.4/56

All: 591.072+/-0.057 χ^2/NDF : 22674182.0/11

asym_left_avg_correction_mean vs Slug, Sign Corrected



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

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

Right Out: 102.095 ± 129.210 χ^2/NDF : 58.8/32

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

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

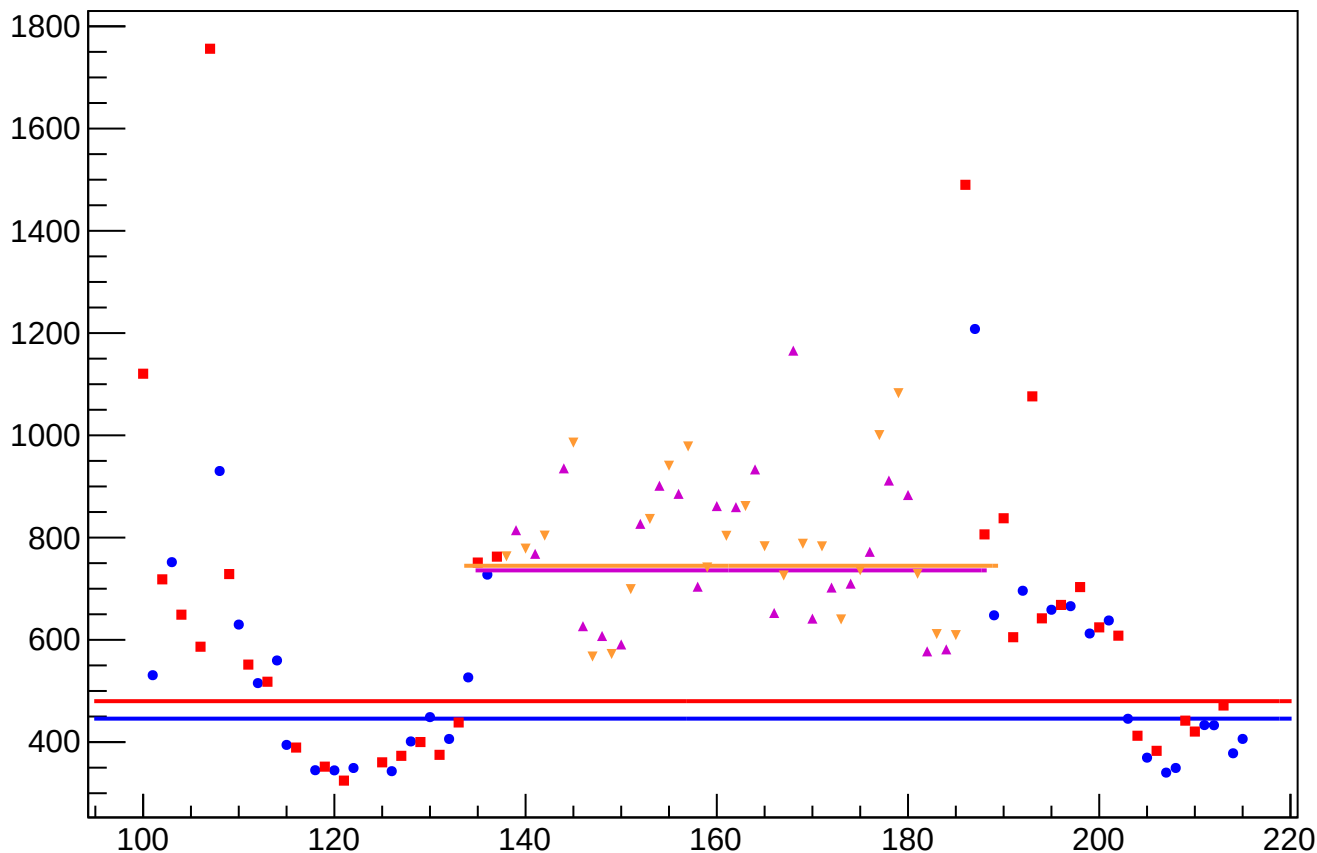
Right: -147.415 ± 86.798 χ^2/NDF : 106.9/63

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

Out: -75.564 ± 105.087 χ^2/NDF : 107.6/56

All: -162.088 ± 71.712 χ^2/NDF : 165.6/110

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 445.891 $\pm$ 0.083 χ^2 /NDF: 2303570.8/30

Left Out: 744.909 $\pm$ 0.128 χ^2 /NDF:1008847.7/23

Right Out: 480.057 $\pm$ 0.091 χ^2 /NDF: 2952109.2/32

Left In: 735.850 $\pm$ 0.127 χ^2 /NDF:1105405.5/22

Left: 740.350 $\pm$ 0.090 χ^2 /NDF: 2116785.5/46

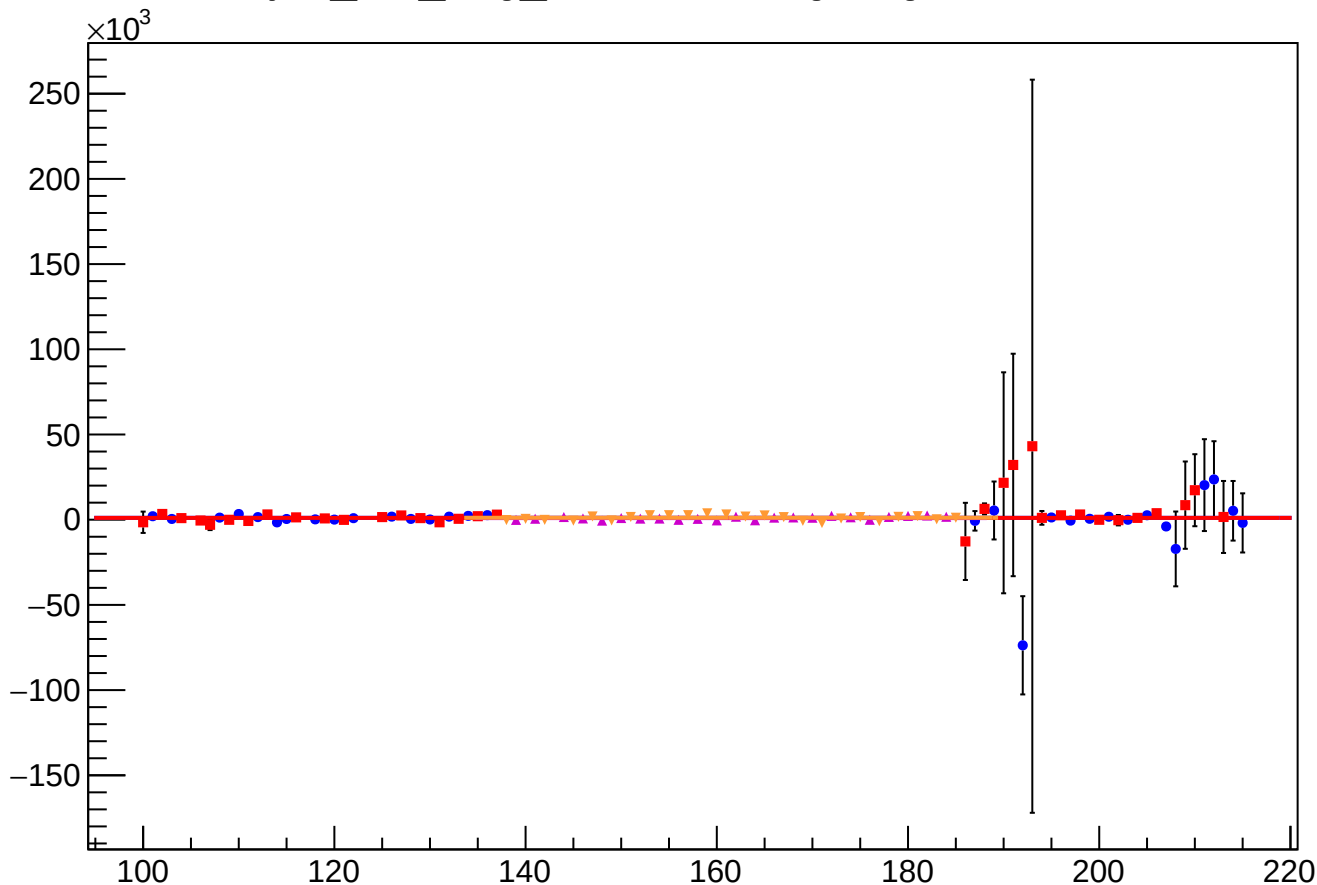
Right: 461.309 $\pm$ 0.061 χ^2 /NDF: 5332414.2/63

In: 532.575 $\pm$ 0.069 χ^2 /NDF:7070474.4/53

Out: 569.721 $\pm$ 0.074 χ^2 /NDF:6805788.2/56

All: 549.873 $\pm$ 0.051 χ^2 /NDF: 14009784.4/111

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1094.785 $\pm$ 280.519 χ^2 /NDF: 26.9/30

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

Right Out: 1063.009 $\pm$ 280.349 χ^2 /NDF: 30.4/32

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

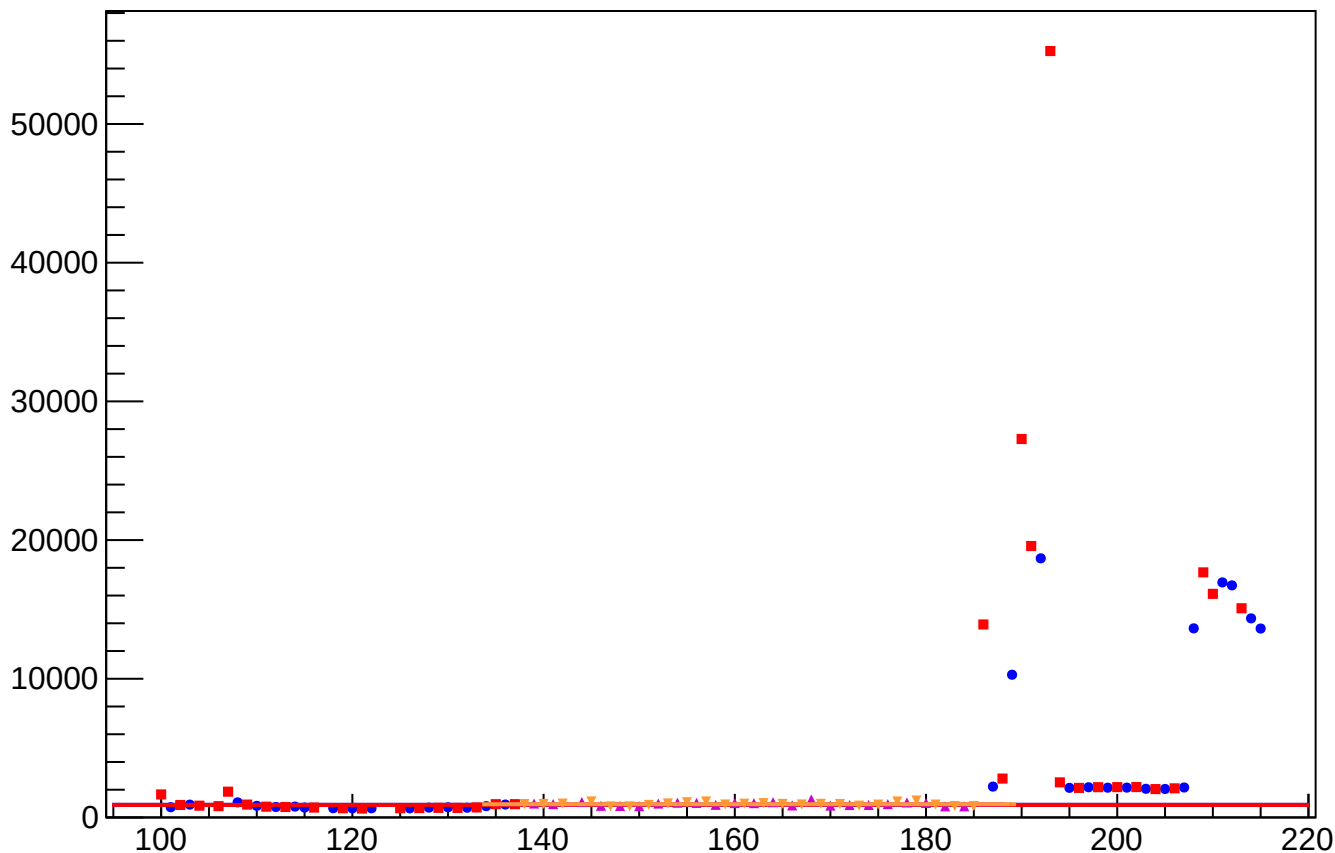
Right: 1078.888 $\pm$ 198.296 χ^2 /NDF: 57.4/63

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

Out: 1107.976 $\pm$ 177.276 χ^2 /NDF: 69.4/56

All: 1055.283 $\pm$ 125.284 χ^2 /NDF: 111.4/110

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 910.353 ± 0.198 $\chi^2/\text{NDF}: 10632158.5/30$

Left Out: 954.333 ± 0.162 $\chi^2/\text{NDF}: 460147.5/23$

Right Out: 904.960 ± 0.198 $\chi^2/\text{NDF}: 9140725.7/32$

Left In: 946.573 ± 0.161 $\chi^2/\text{NDF}: 501366.9/22$

Left: 950.444 ± 0.114 $\chi^2/\text{NDF}: 962667.1/46$

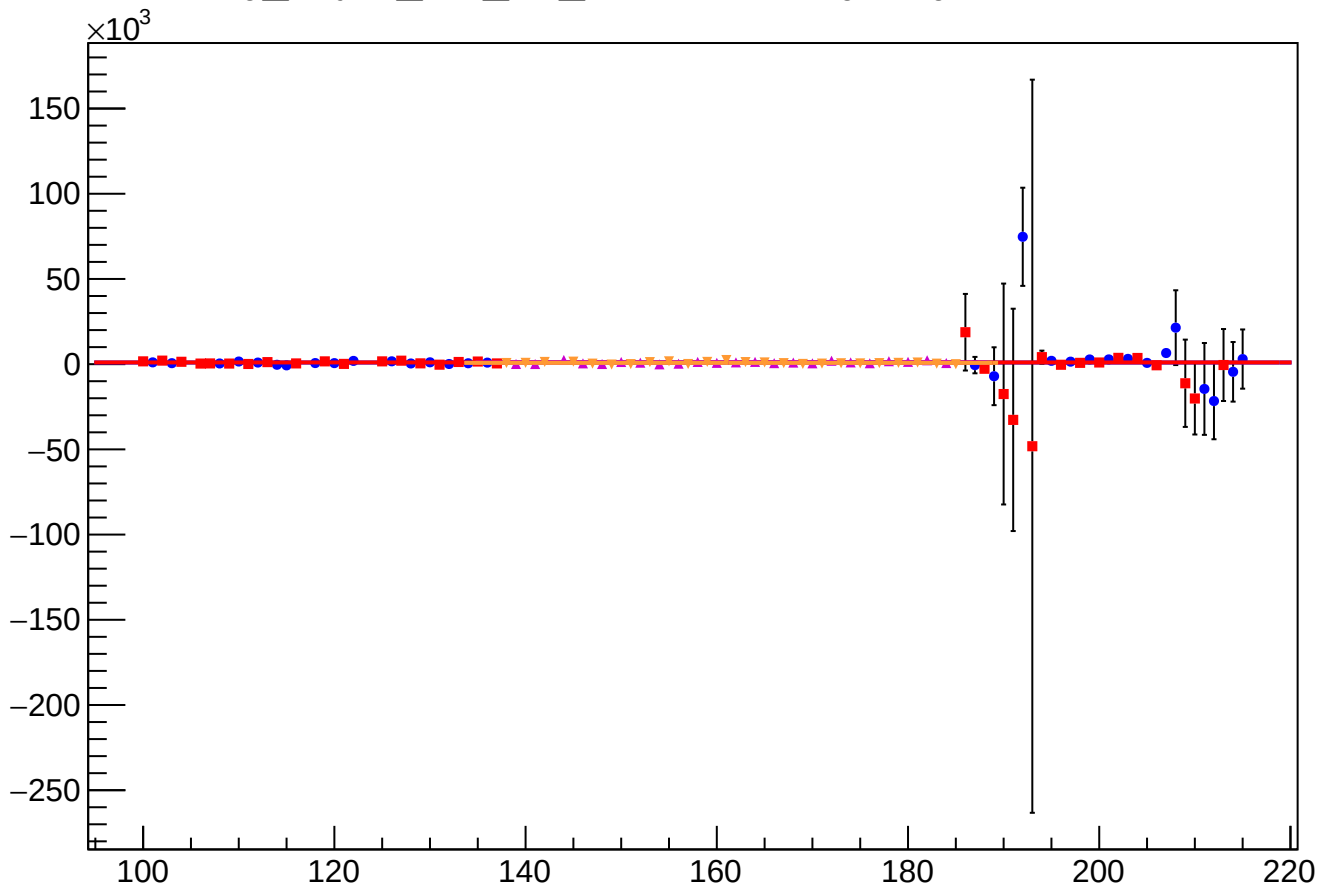
Right: 907.655 ± 0.140 $\chi^2/\text{NDF}: 19773254.0/63$

In: 932.140 ± 0.125 $\chi^2/\text{NDF}: 11153580.7/53$

Out: 934.591 ± 0.125 $\chi^2/\text{NDF}: 9638101.2/56$

All: 933.364 ± 0.089 $\chi^2/\text{NDF}: 20791873.5/111$

reg_asym_left_dd_mean vs Slug, Sign Corrected



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

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

Right Out: 1015.144 $\pm$ 202.652 χ^2 /NDF: 20.1/32

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

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

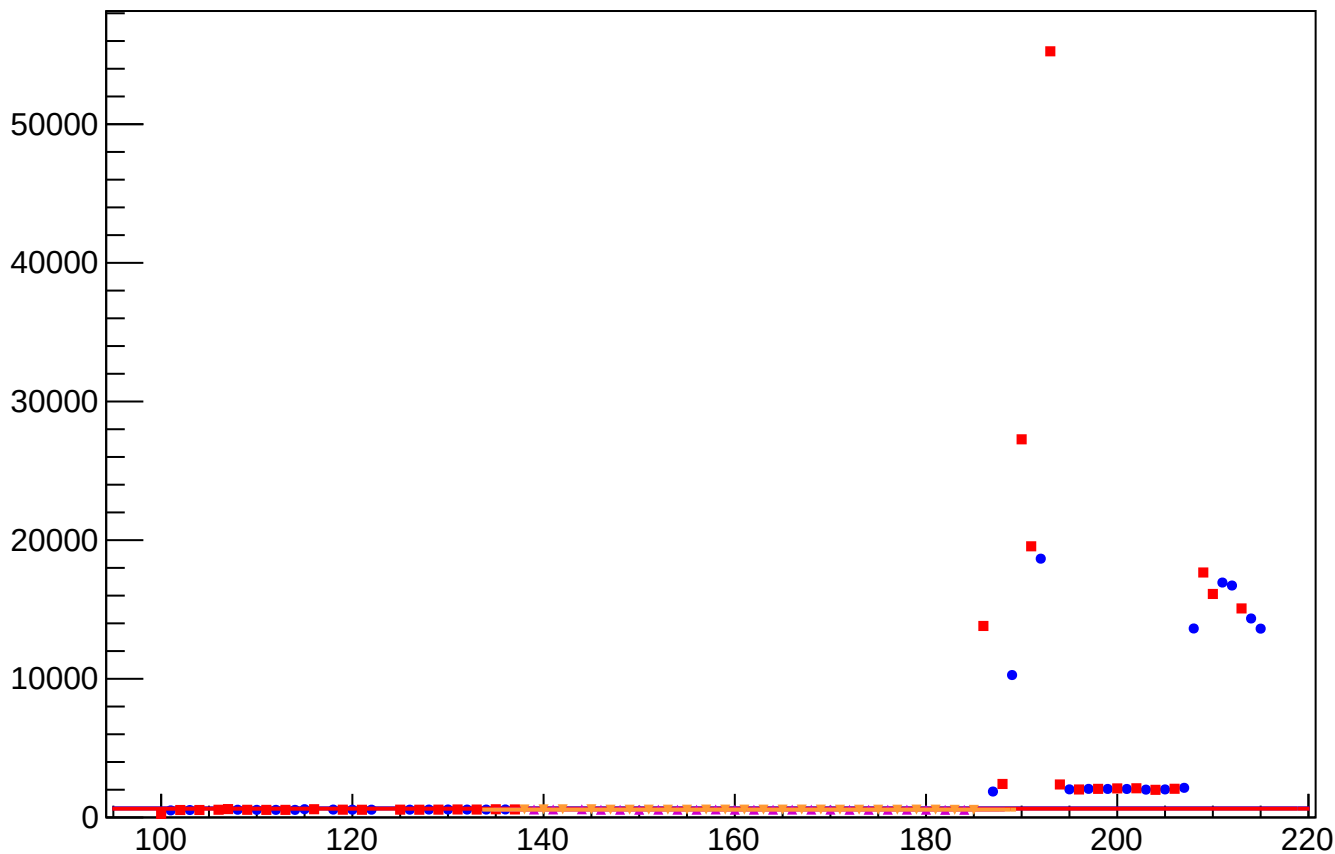
Right: 987.107 $\pm$ 145.722 χ^2 /NDF: 43.9/63

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

Out: 835.931 $\pm$ 111.741 χ^2 /NDF:42.2/56

All: 896.112 $\pm$ 79.595 χ^2 /NDF: 93.4/110

reg_asym_left_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 633.533+/-0.143 χ^2/NDF : 10386218.2/32

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

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

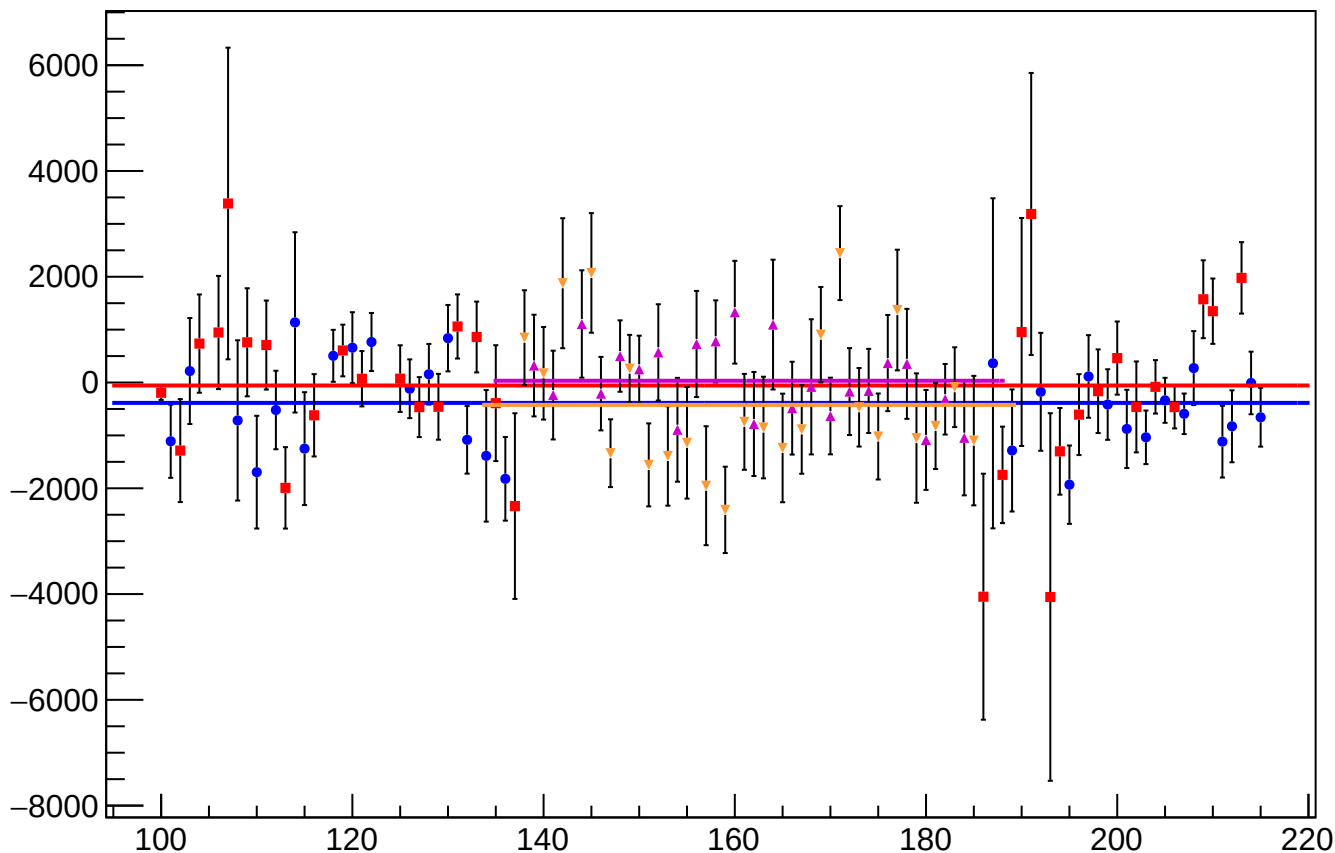
Right: 645.083+/-0.103 χ^2/NDF : 22450209.7/63

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

Out: 584.914+/-0.079 χ^2/NDF :10561168.6/56

All: 588.053+/-0.056 χ^2/NDF : 22905545.3/11

asym_left_dd_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -56.183+/-94.165 χ^2/NDF : 57.1/32

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

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

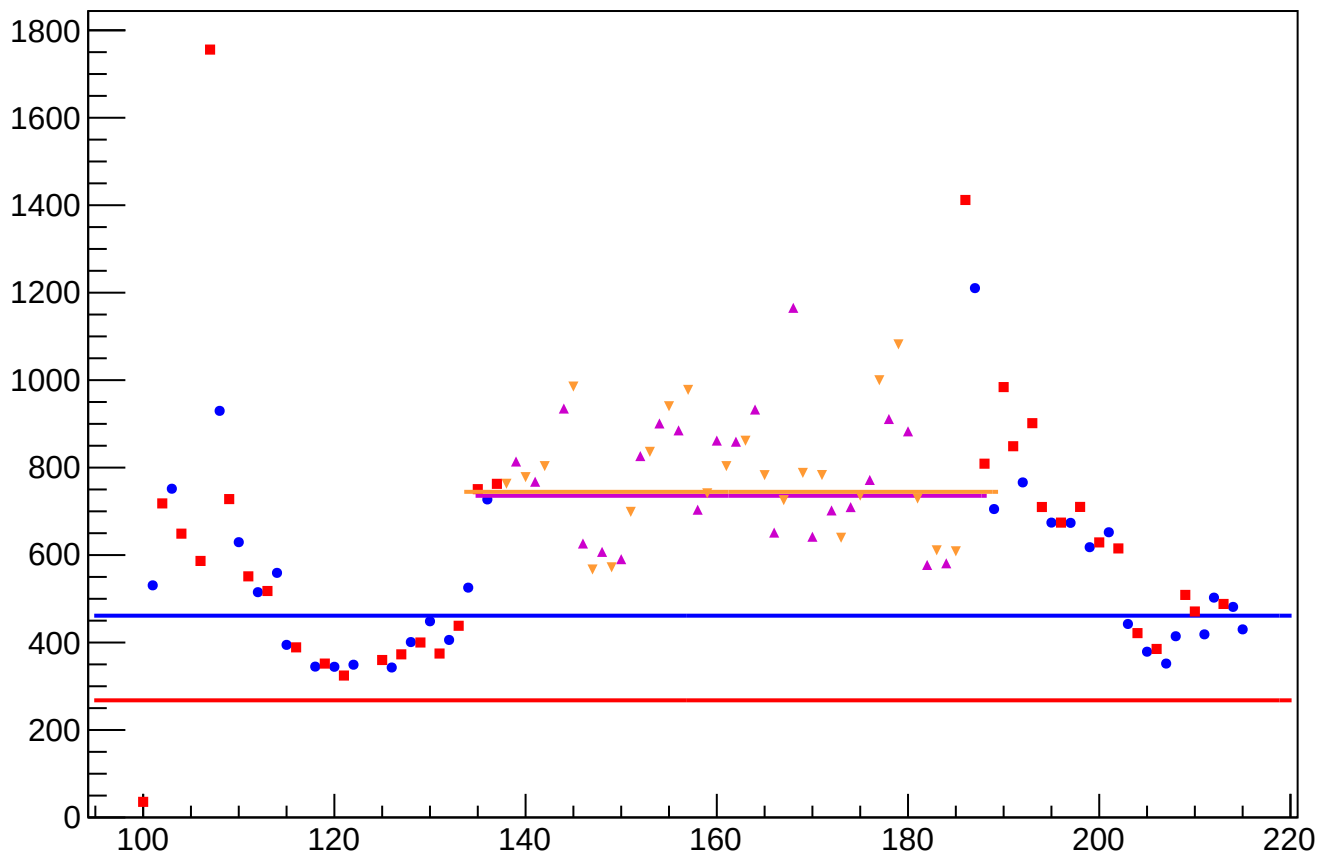
Right: -180.489+/-74.267 χ^2/NDF : 97.3/63

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

Out: -134.492+/-83.490 χ^2/NDF :103.6/56

All: -183.670+/-64.140 χ^2/NDF : 155.9/110

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 461.399 ± 0.085 $\chi^2/\text{NDF}: 2254392.6/30$

Left Out: 744.597 ± 0.128 $\chi^2/\text{NDF}: 1009604.0/23$

Right Out: 267.832 ± 0.067 $\chi^2/\text{NDF}: 14497605.3/32$

Left In: 735.543 ± 0.127 $\chi^2/\text{NDF}: 1105222.3/22$

Left: 740.040 ± 0.090 $\chi^2/\text{NDF}: 2117358.1/46$

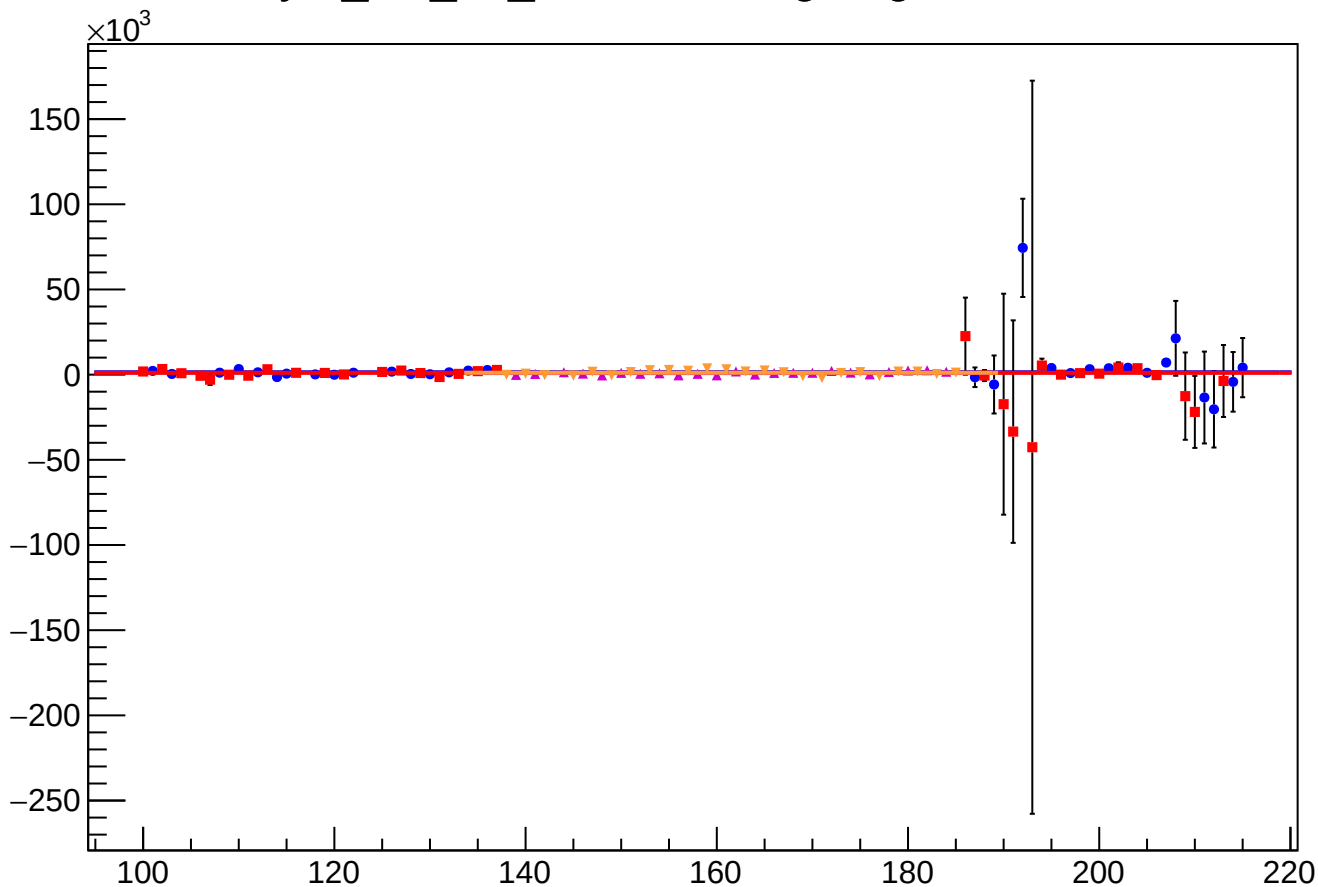
Right: 340.993 ± 0.053 $\chi^2/\text{NDF}: 19946199.9/63$

In: 546.952 ± 0.071 $\chi^2/\text{NDF}: 6574032.1/53$

Out: 369.801 ± 0.059 $\chi^2/\text{NDF}: 26472582.1/56$

All: 442.399 ± 0.045 $\chi^2/\text{NDF}: 36736600.1/11$

asym_left_dd_mean vs Slug, Sign Corrected



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

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

Right Out: 1069.537 $\pm$ 269.454 χ^2 /NDF: 29.5/32

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

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

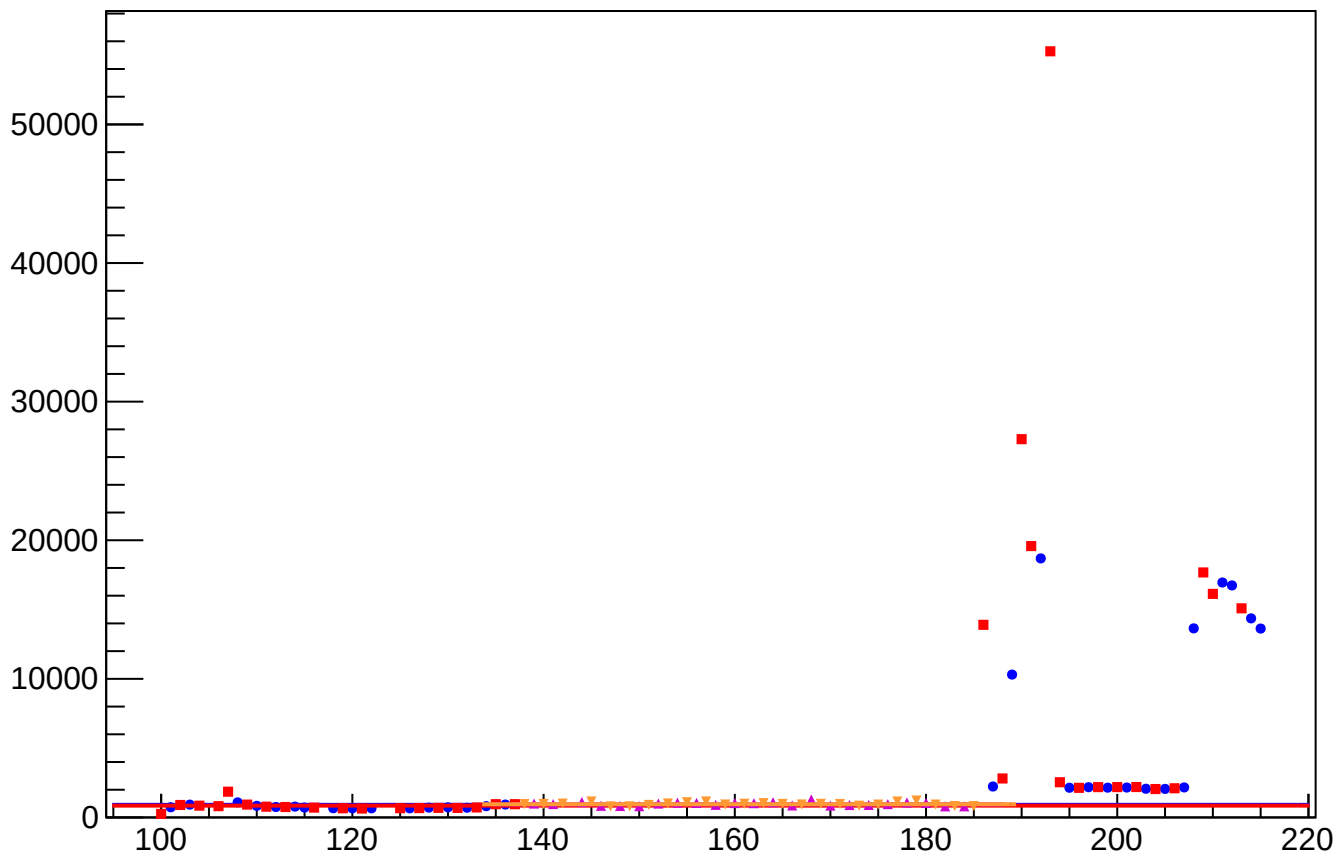
Right: 1231.451 $\pm$ 194.295 χ^2 /NDF: 61.4/63

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

Out: 1090.234 $\pm$ 174.363 χ^2 /NDF:67.8/56

All: 1103.771 $\pm$ 124.214 χ^2 /NDF: 115.8/110

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 909.604 $\pm$ 0.198 χ^2 /NDF: 10653044.7/30

Left Out: 953.781 $\pm$ 0.162 χ^2 /NDF: 460211.0/23

Right Out: 852.774 $\pm$ 0.191 χ^2 /NDF: 9950654.1/32

Left In: 946.041 $\pm$ 0.161 χ^2 /NDF: 501442.7/22

Left: 949.902 $\pm$ 0.114 χ^2 /NDF: 962801.6/46

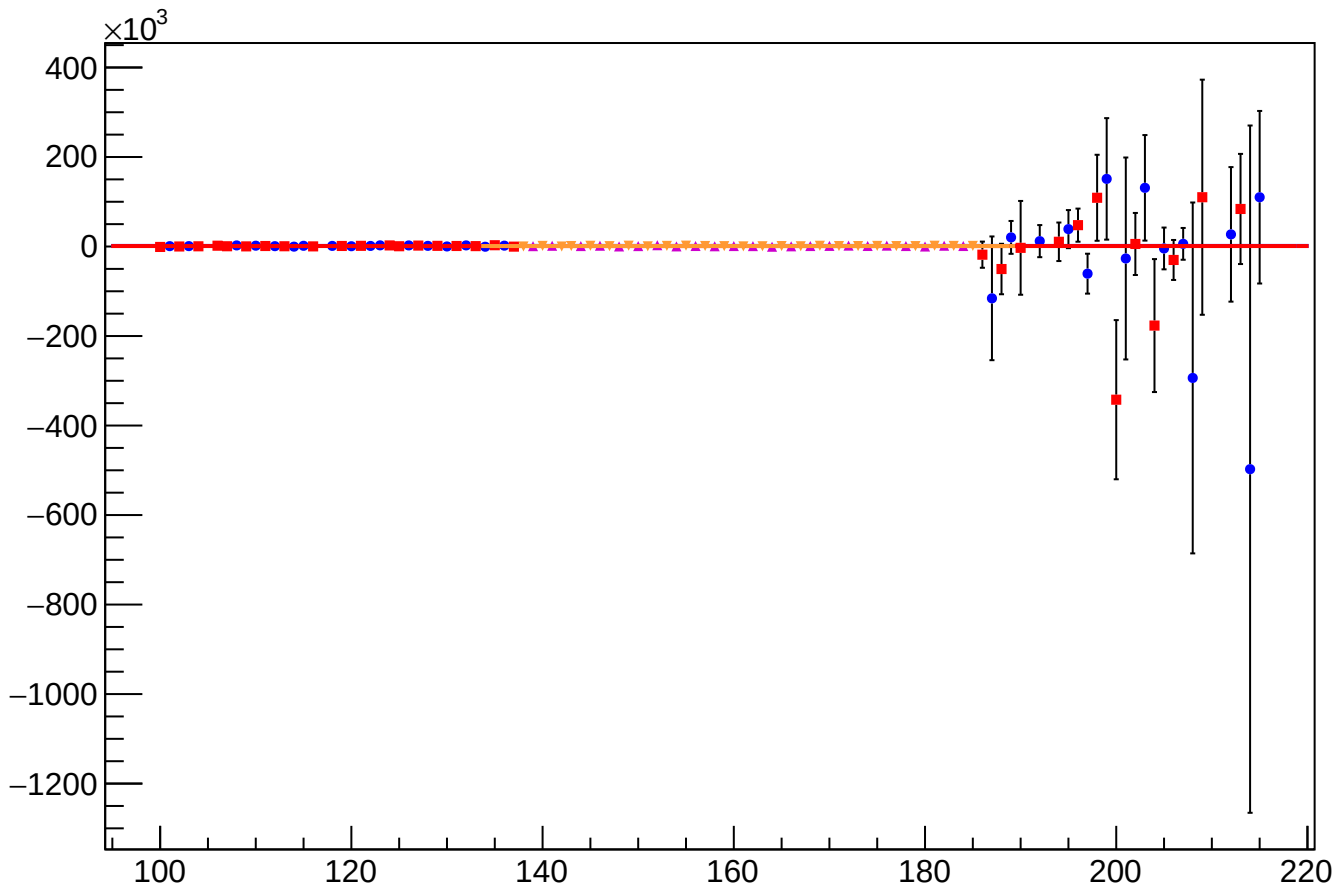
Right: 880.056 $\pm$ 0.137 χ^2 /NDF: 20646406.6/63

In: 931.525 $\pm$ 0.125 χ^2 /NDF: 11174801.7/53

Out: 911.486 $\pm$ 0.123 χ^2 /NDF: 10574221.2/56

All: 921.355 $\pm$ 0.088 χ^2 /NDF: 21762032.6/111

reg_asym_right_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 1039.846 $\pm$ 212.061 χ^2 /NDF: 23.9/30

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

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

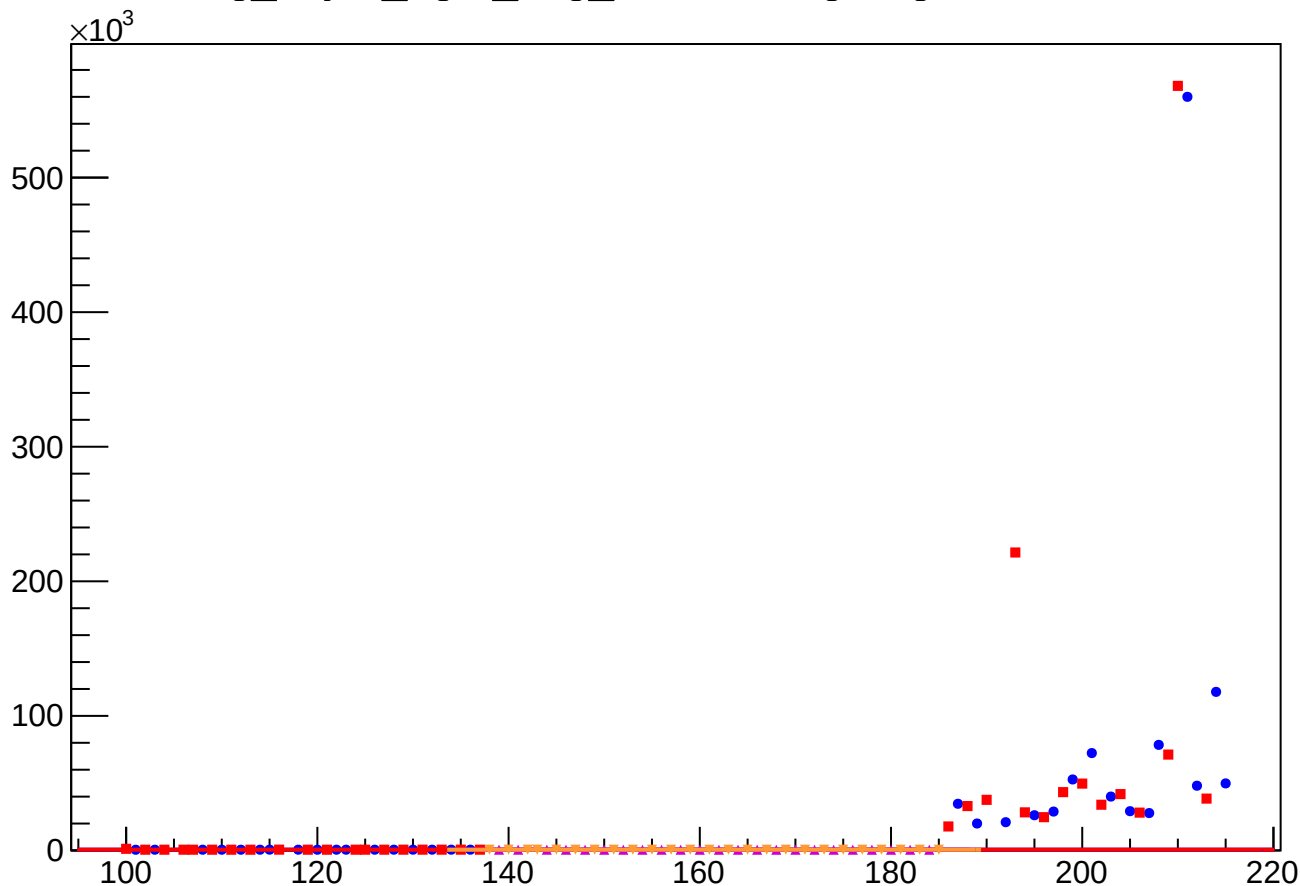
Right: 1178.233 $\pm$ 152.202 χ^2 /NDF: 45.2/61

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

Out: 1064.431 $\pm$ 110.639 χ^2 /NDF:39.1/55

All: 1119.837 $\pm$ 79.301 χ^2 /NDF: 90.6/109

reg_asym_right_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 569.865 $\pm$ 0.150 χ^2 /NDF: 5927423.9/32

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

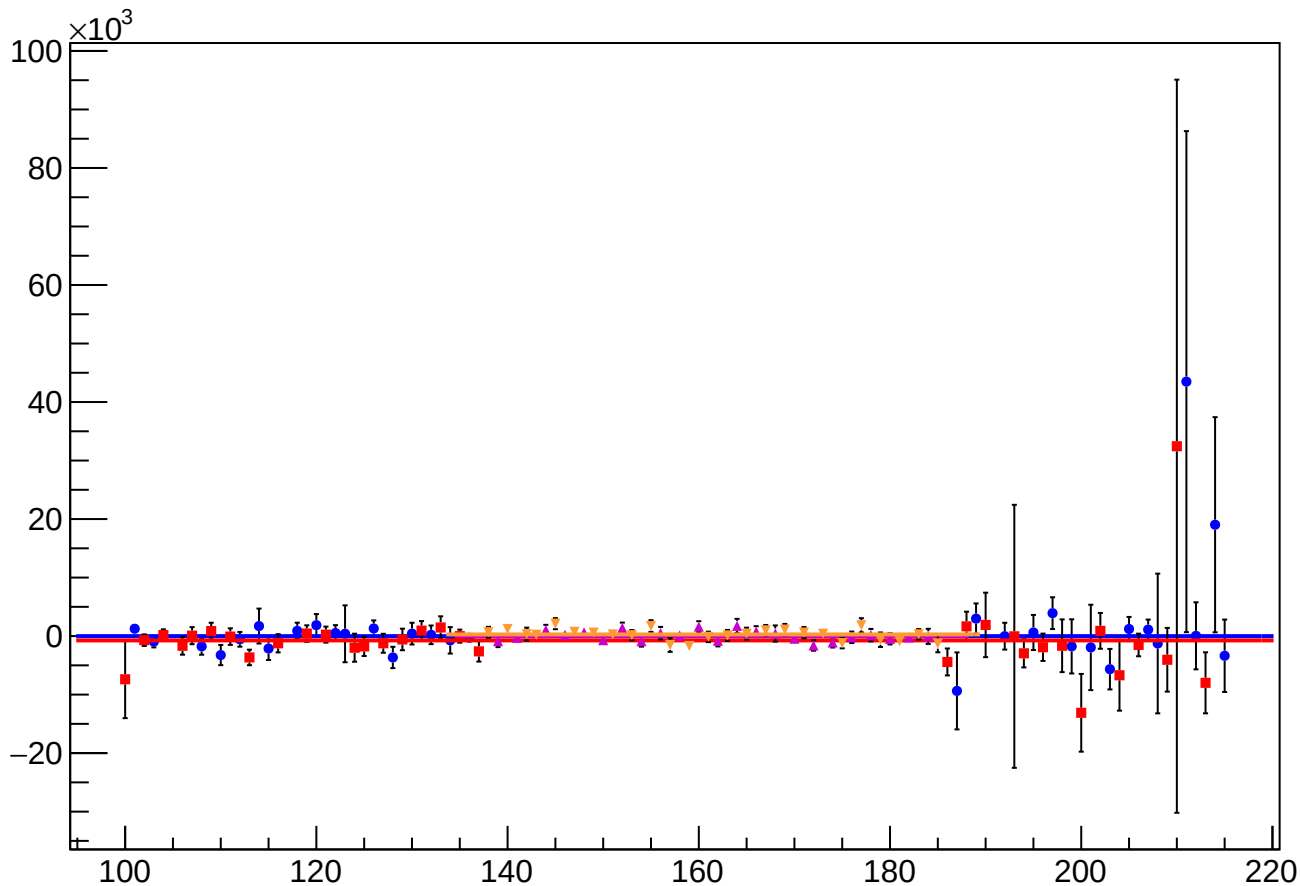
Right: 569.304 $\pm$ 0.108 χ^2 /NDF: 12189301.6/64

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

Out: 560.891 $\pm$ 0.078 χ^2 /NDF:5947098.3/57

All: 560.529 $\pm$ 0.056 χ^2 /NDF: 12224408.4/111

asym_right_avg_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -739.150 ± 311.558 χ^2/NDF : 27.2/32

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

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

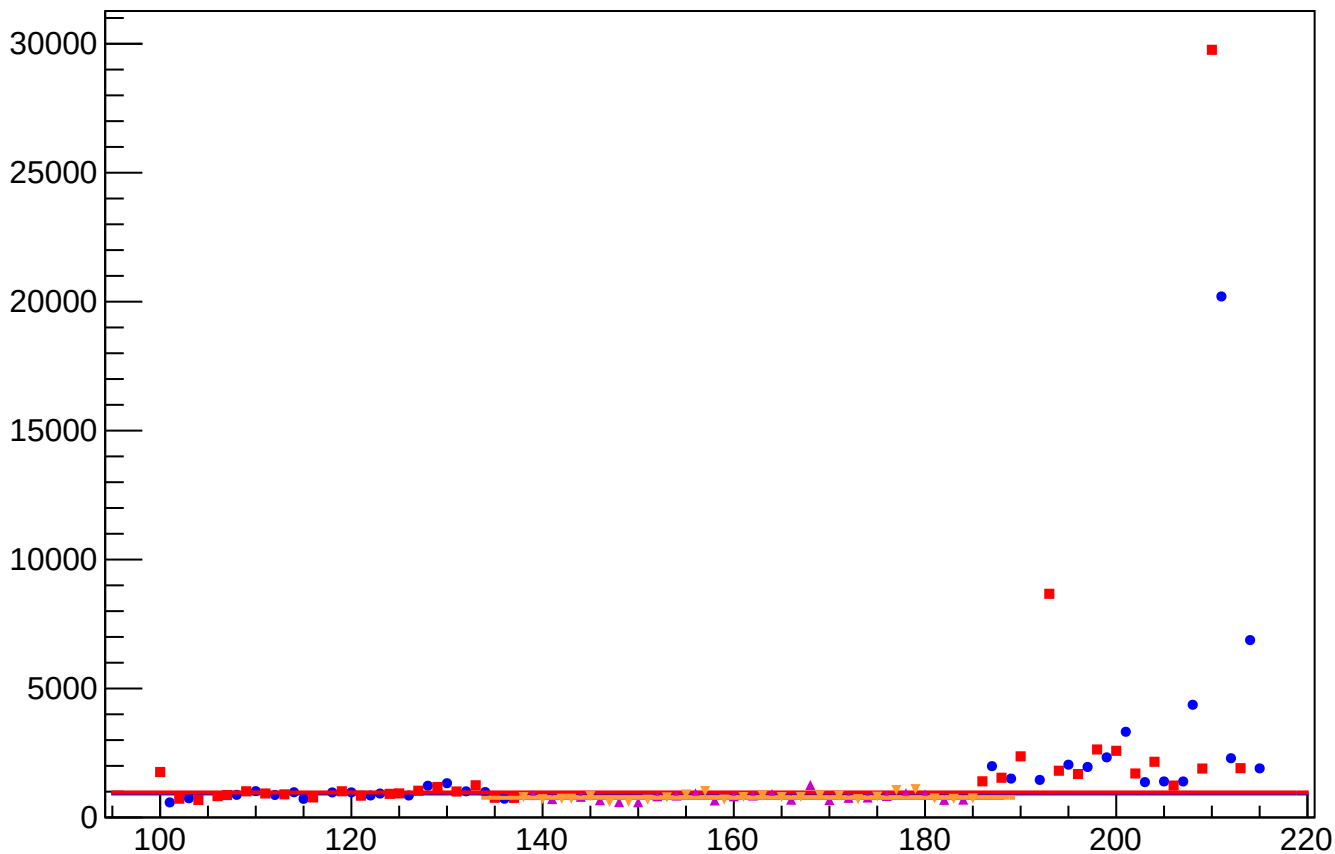
Right: -367.509 ± 218.319 χ^2/NDF : 58.7/64

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

Out: 25.458 ± 156.133 χ^2/NDF : 61.9/57

All: 8.649 ± 110.813 χ^2/NDF : 110.8/112

asym_right_avg_correction_rms vs Slug, Sign Corrected



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

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

Right Out: 969.716 ± 0.220 χ^2/NDF : 2753958.6/32

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

Left: 758.665 ± 0.091 χ^2/NDF : 1687969.6/47

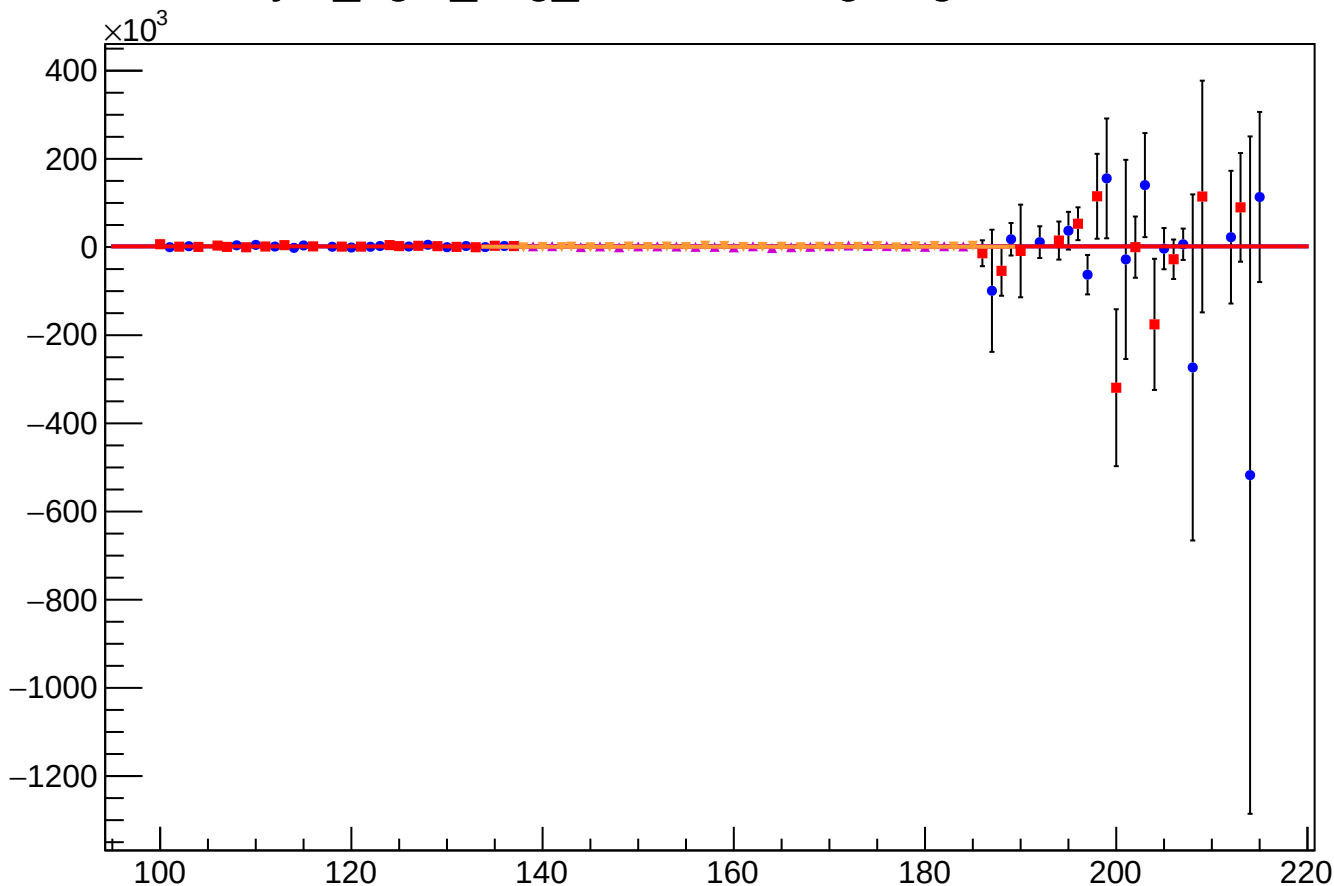
Right: 950.066 ± 0.154 χ^2/NDF : 6045237.7/64

In: 800.869 ± 0.111 χ^2/NDF : 4699847.3/54

Out: 814.978 ± 0.110 χ^2/NDF : 4166455.4/57

All: 807.976 ± 0.078 χ^2/NDF : 8874407.2/112

asym_right_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 1486.854 $\pm$ 400.596 χ^2 /NDF: 22.5/30

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

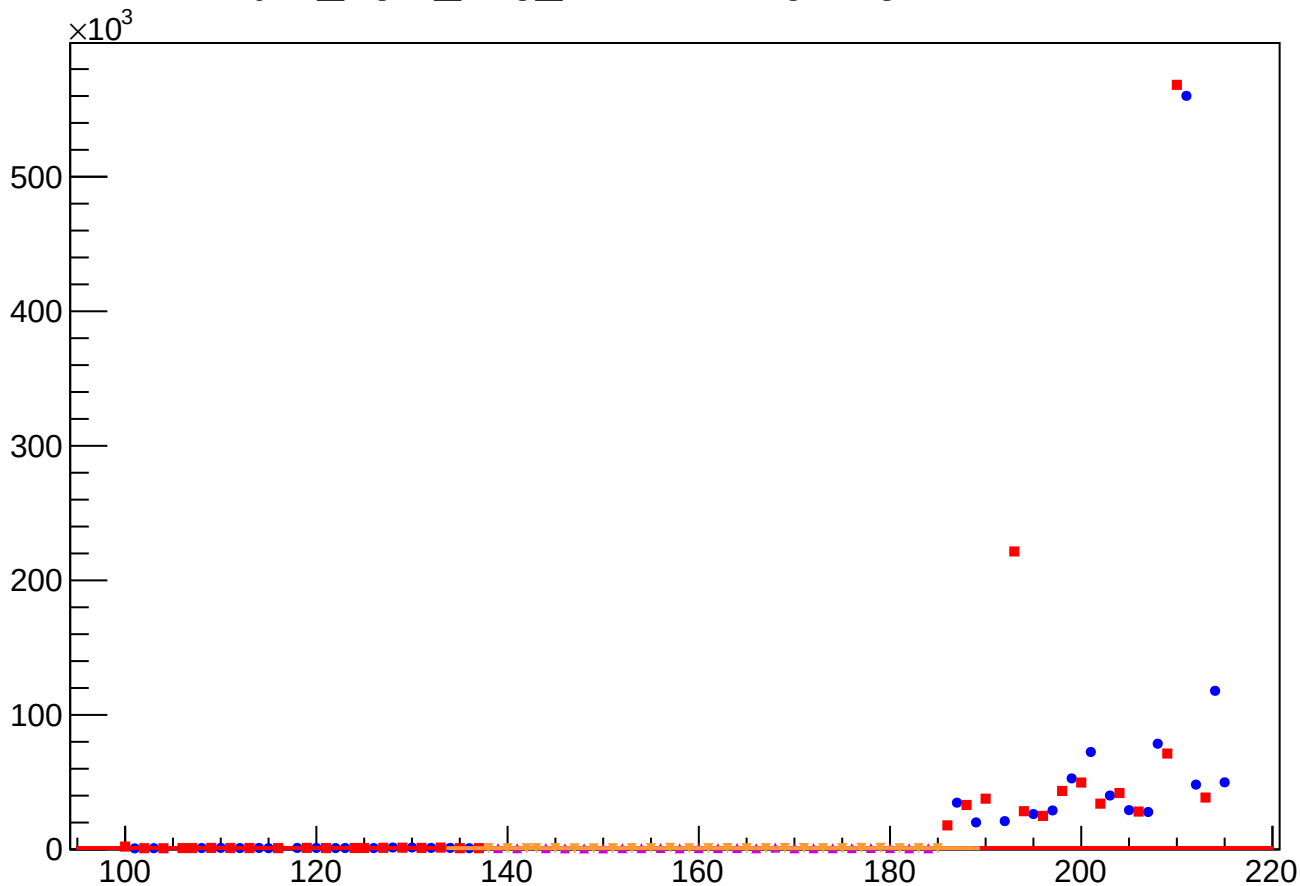
Right: 1494.142 $\pm$ 283.947 χ^2 /NDF: 47.1/61

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

Out: 919.480 $\pm$ 196.529 χ^2 /NDF:46.6/55

All: 1066.021 $\pm$ 140.089 χ^2 /NDF: 98.5/109

asym right avg rms vs Slug, Sign Corrected



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

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

Right Out: 1073.748 ± 0.283 χ^2/NDF : 5918578.3/32

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

Left: 958.525 ± 0.114 $\chi^2/\text{NDF}: 807449.1/47$

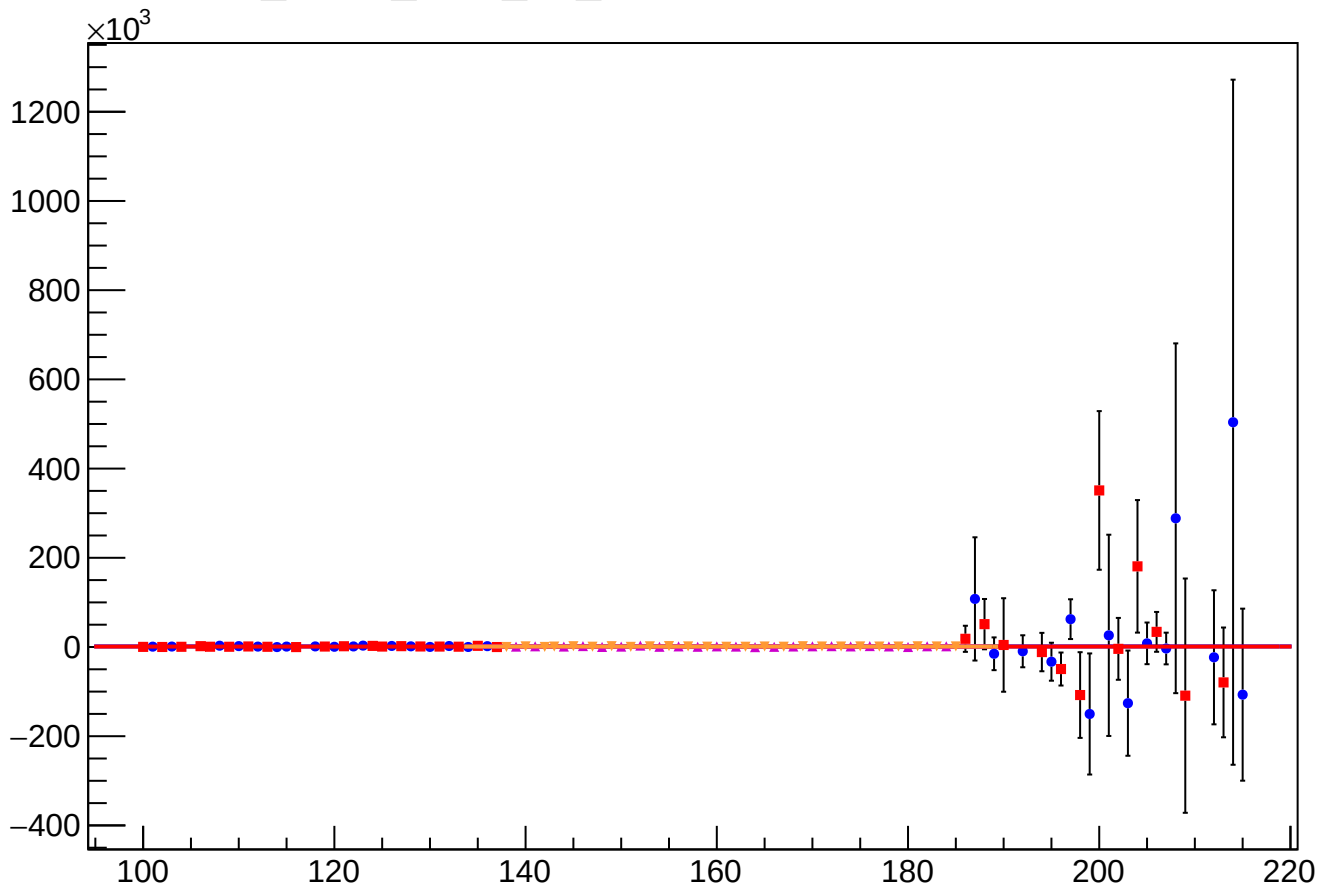
Right: 1056.585+/-0.201 χ^2/NDF : 12316342.2/64

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

Out: 989.090+/-0.139 χ^2/NDF :6399151.2/57

All: 982.394+/-0.099 χ^2/NDF : 13304262.3/11

reg_asym_right_dd_mean vs Slug, Sign Corrected



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

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

Right Out: 965.830 $\pm$ 208.597 χ^2 /NDF: 23.1/30

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

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

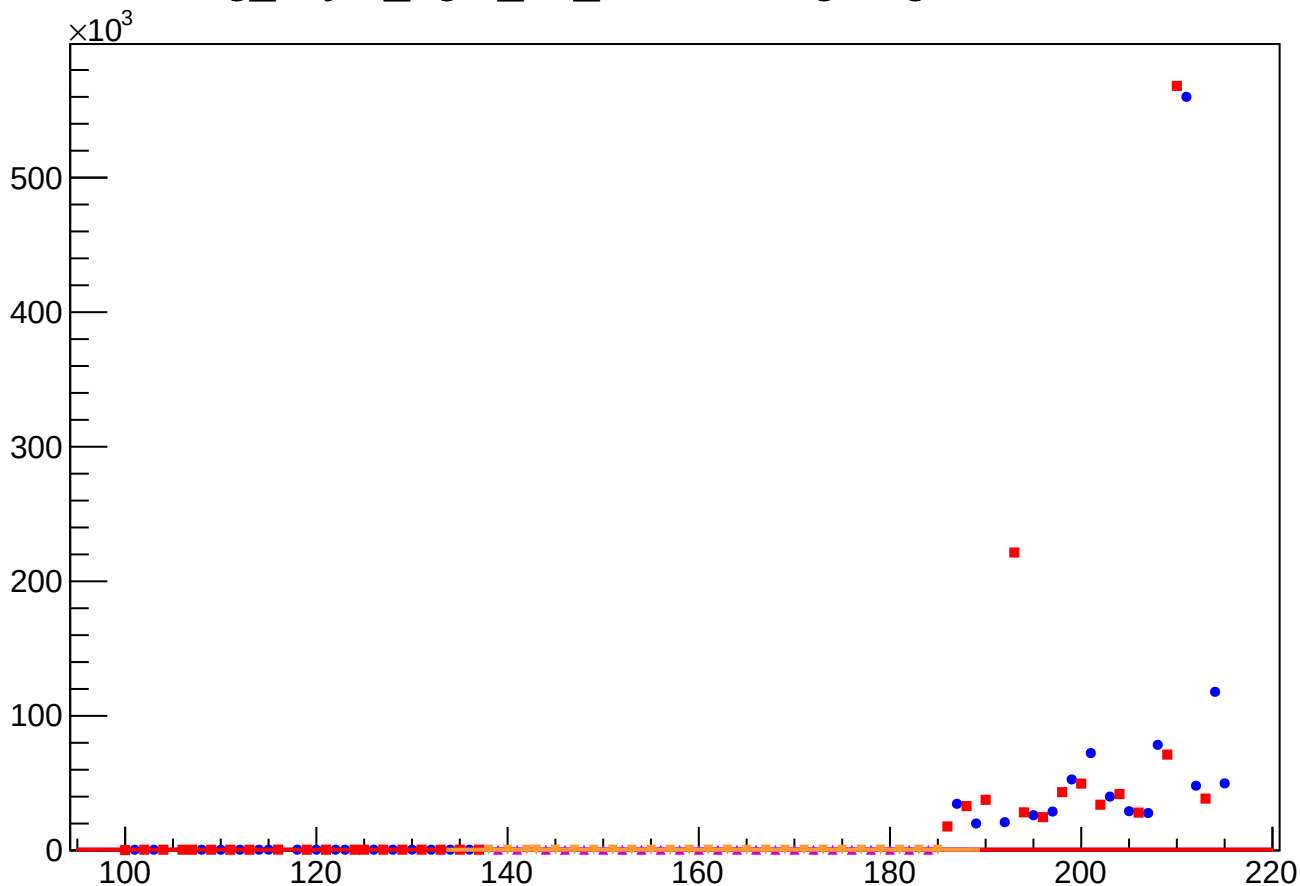
Right: 1146.025 $\pm$ 150.989 χ^2 /NDF: 43.8/61

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

Out: 1053.622 $\pm$ 110.219 χ^2 /NDF:38.3/55

All: 1139.629 $\pm$ 79.189 χ^2 /NDF: 91.2/109

reg_asym_right_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 558.854 $\pm$ 0.147 χ^2 /NDF: 6015251.6/32

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

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

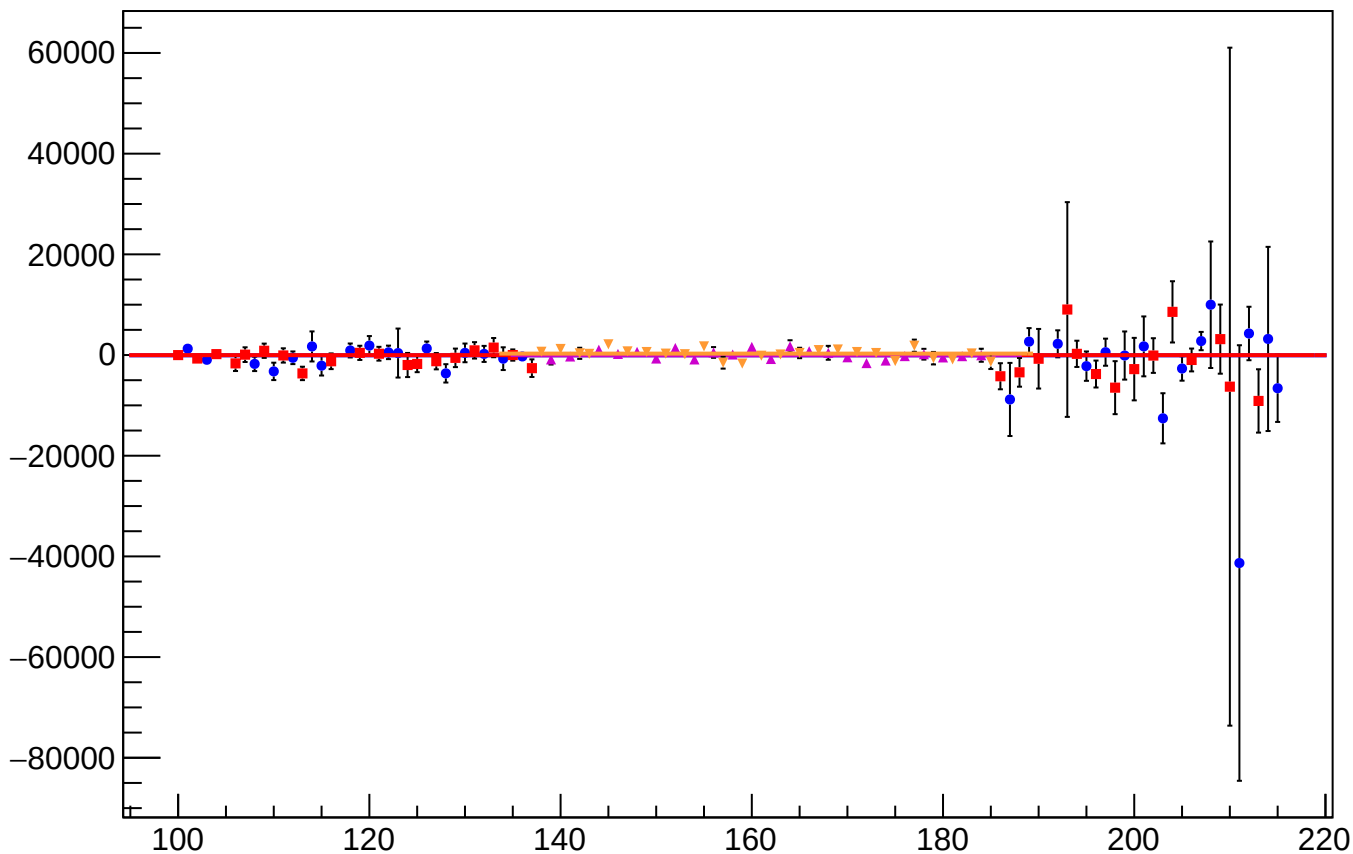
Right: 563.861 $\pm$ 0.107 χ^2 /NDF: 12279735.5/64

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

Out: 558.310 $\pm$ 0.078 χ^2 /NDF: 6030055.7/57

All: 559.507 $\pm$ 0.056 χ^2 /NDF: 12308106.9/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -23.054+/-38.925 χ^2/NDF : 28.3/32

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

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

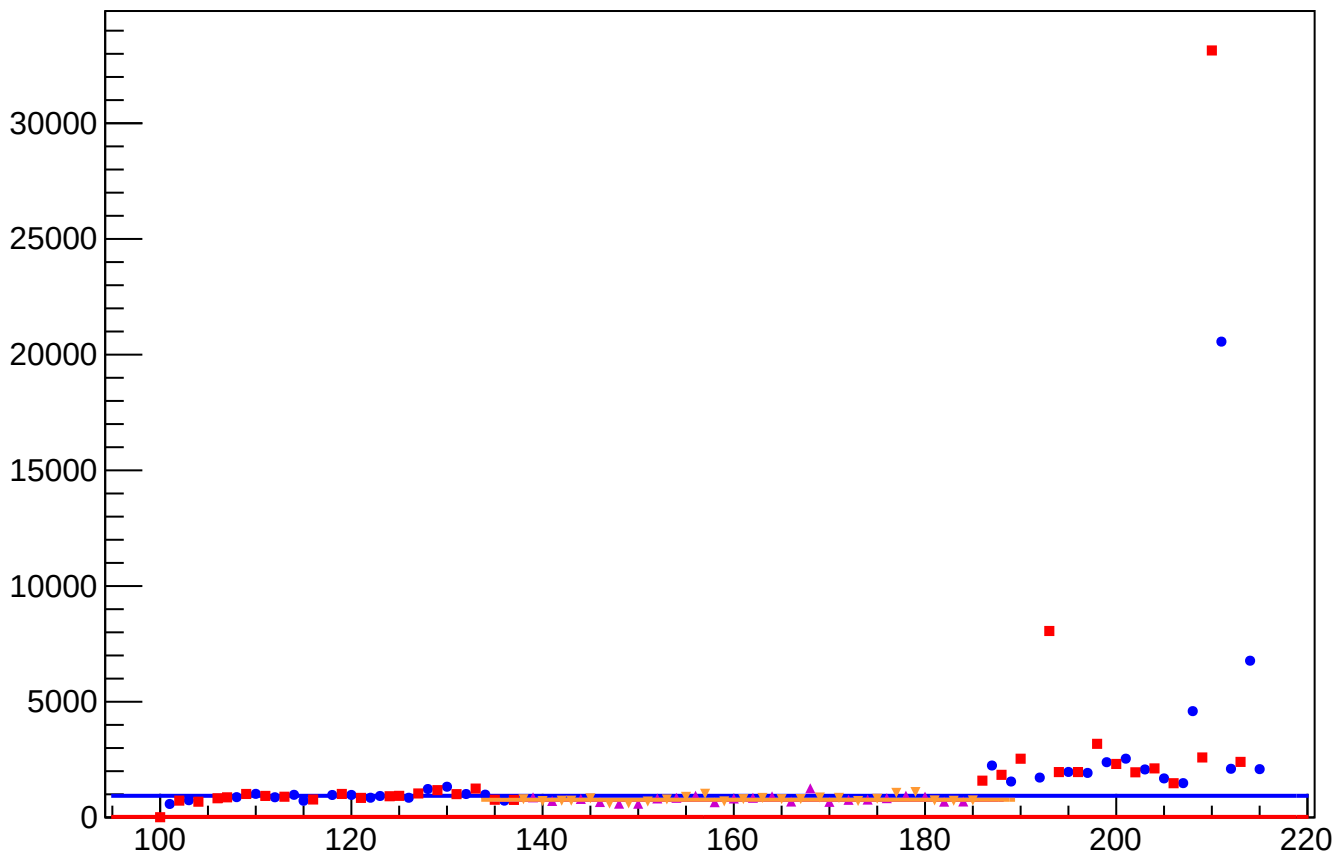
Right: -23.659+/-38.620 χ^2/NDF : 62.4/64

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

Out: -9.521+/-38.050 χ^2/NDF : 57.8/57

All: -10.180+/-36.990 χ^2/NDF : 112.0/112

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 935.662 $\pm$ 0.218

χ^2 /NDF: 3469048.1/31

Left Out: 763.307 $\pm$ 0.128

χ^2 /NDF: 753728.9/24

Right Out: 24.653 $\pm$ 0.028

χ^2 /NDF: 21598743.9/32

Left In: 754.483 $\pm$ 0.130

χ^2 /NDF: 931536.8/22

Left: 758.967 $\pm$ 0.091

χ^2 /NDF: 1687616.8/47

Right: 38.894 $\pm$ 0.027

χ^2 /NDF: 42192114.0/64

In: 801.733 $\pm$ 0.112

χ^2 /NDF: 4909208.1/54

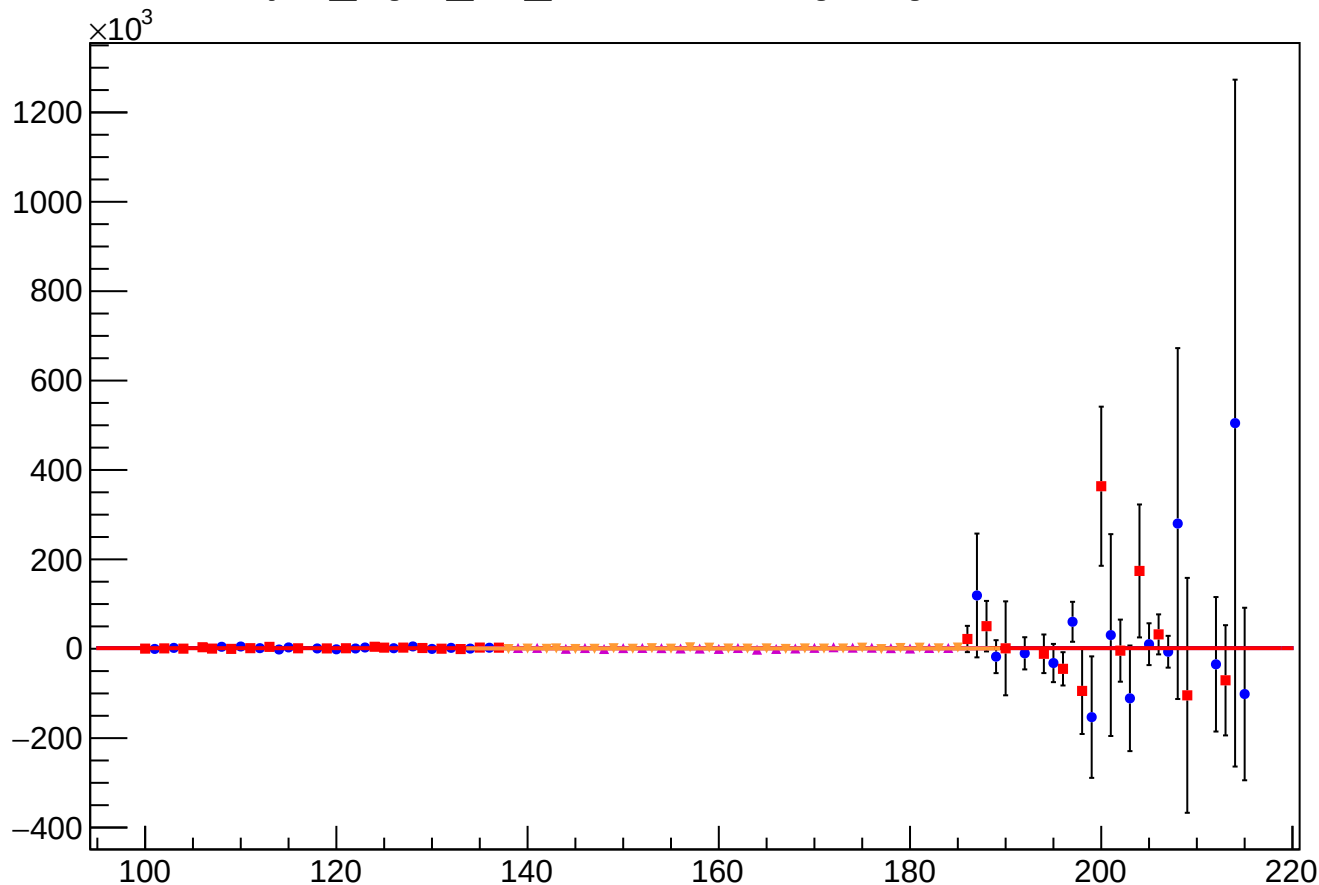
Out: 57.486 $\pm$ 0.027

χ^2 /NDF: 54364701.1/57

All: 98.409 $\pm$ 0.026

χ^2 /NDF: 101345592.1/111

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.257 $\pm$ 402.757 χ^2 /NDF: 24.8/30

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

Right Out: 1289.809 $\pm$ 376.578 χ^2 /NDF: 22.7/30

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

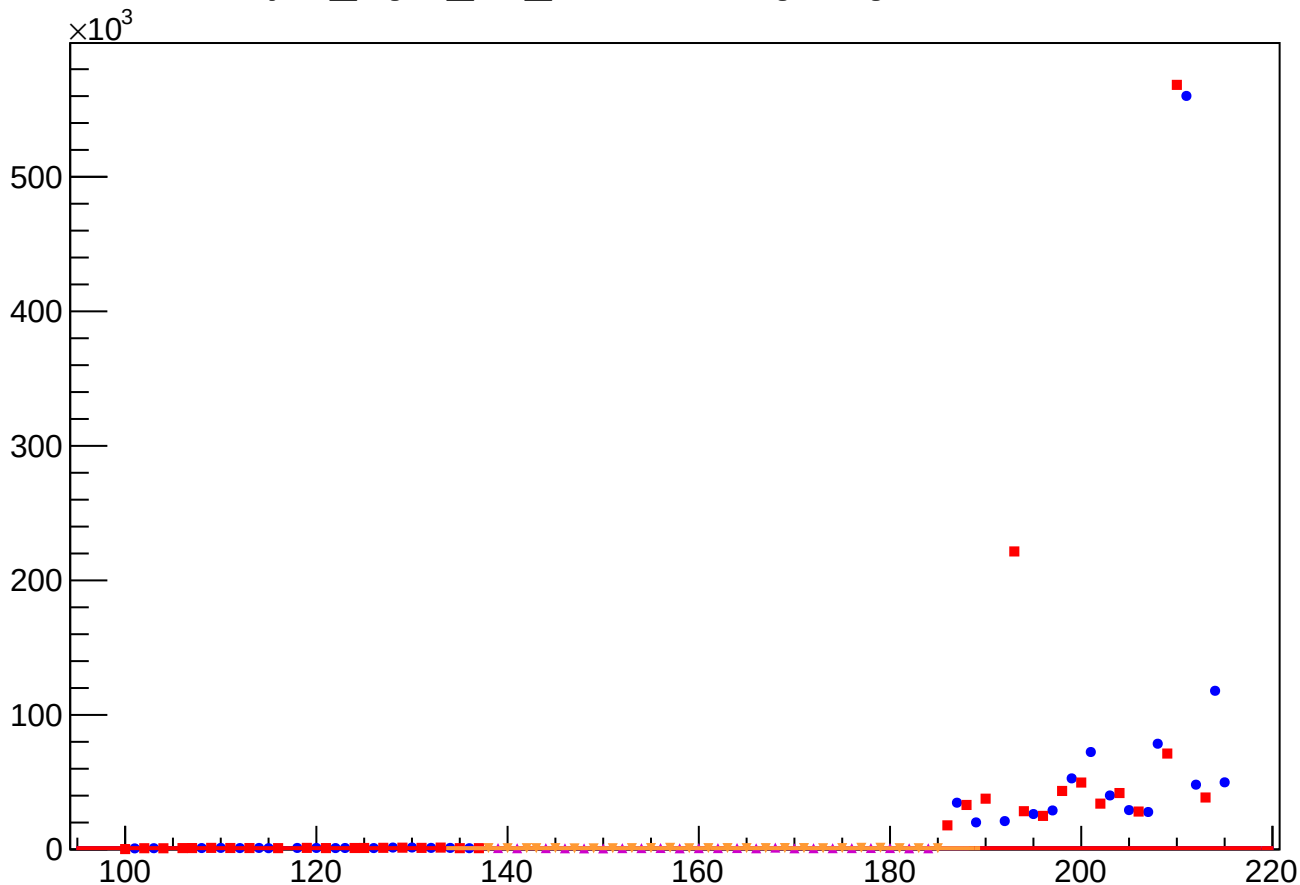
Right: 1394.969 $\pm$ 275.070 χ^2 /NDF: 47.7/61

In: 1259.771 $\pm$ 199.877 χ^2 /NDF: 49.6/53

Out: 887.342 $\pm$ 193.565 χ^2 /NDF: 44.5/55

All: 1067.584 $\pm$ 139.049 χ^2 /NDF: 95.9/109

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.840 $\pm$ 0.285 χ^2 /NDF: 6391083.2/31

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

Right Out: 978.198 $\pm$ 0.266 χ^2 /NDF: 6792392.1/32

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

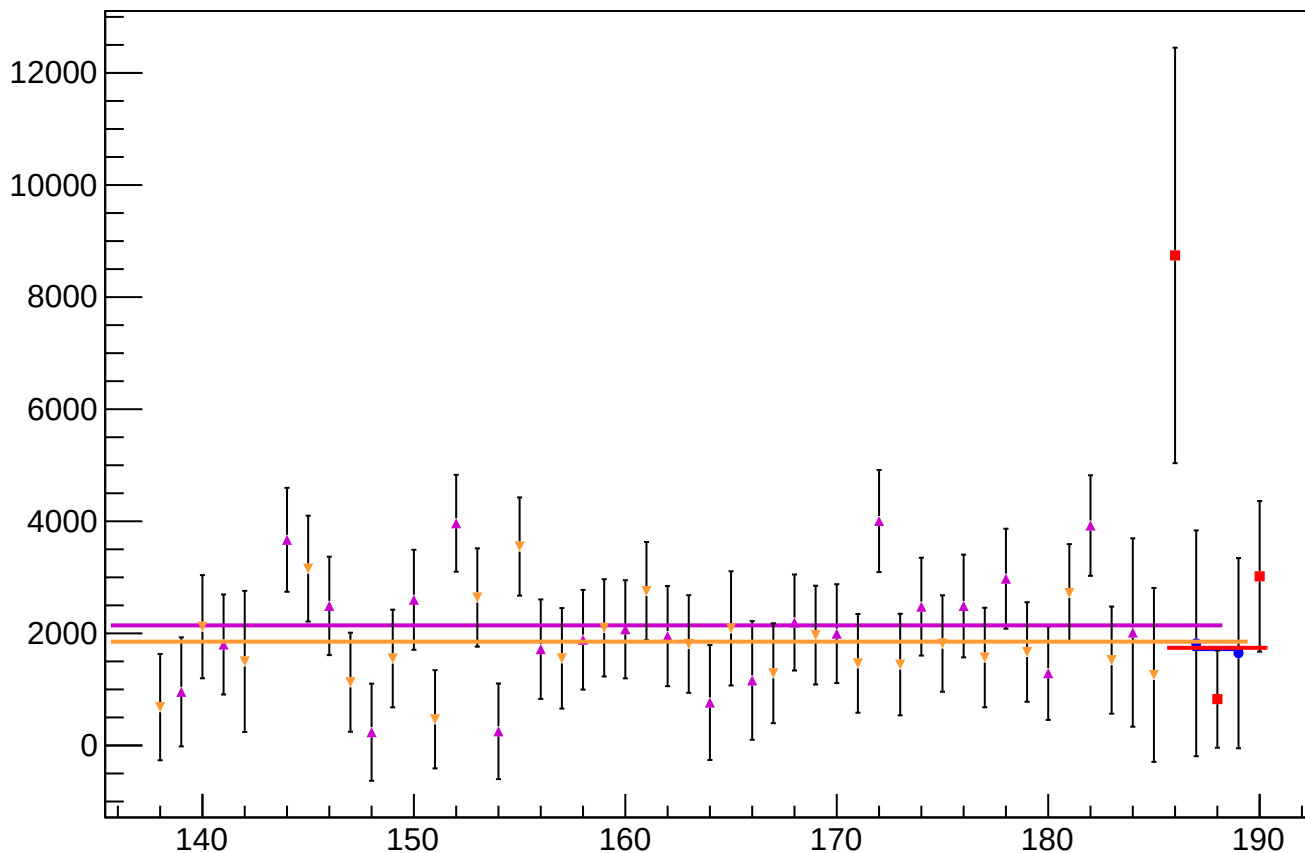
Right: 1006.950 $\pm$ 0.195 χ^2 /NDF: 13208471.6/64

In: 976.144 $\pm$ 0.141 χ^2 /NDF:6900519.9/54

Out: 966.851 $\pm$ 0.137 χ^2 /NDF:7157697.8/57

All: 971.348 $\pm$ 0.098 χ^2 /NDF: 14060448.7/111

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

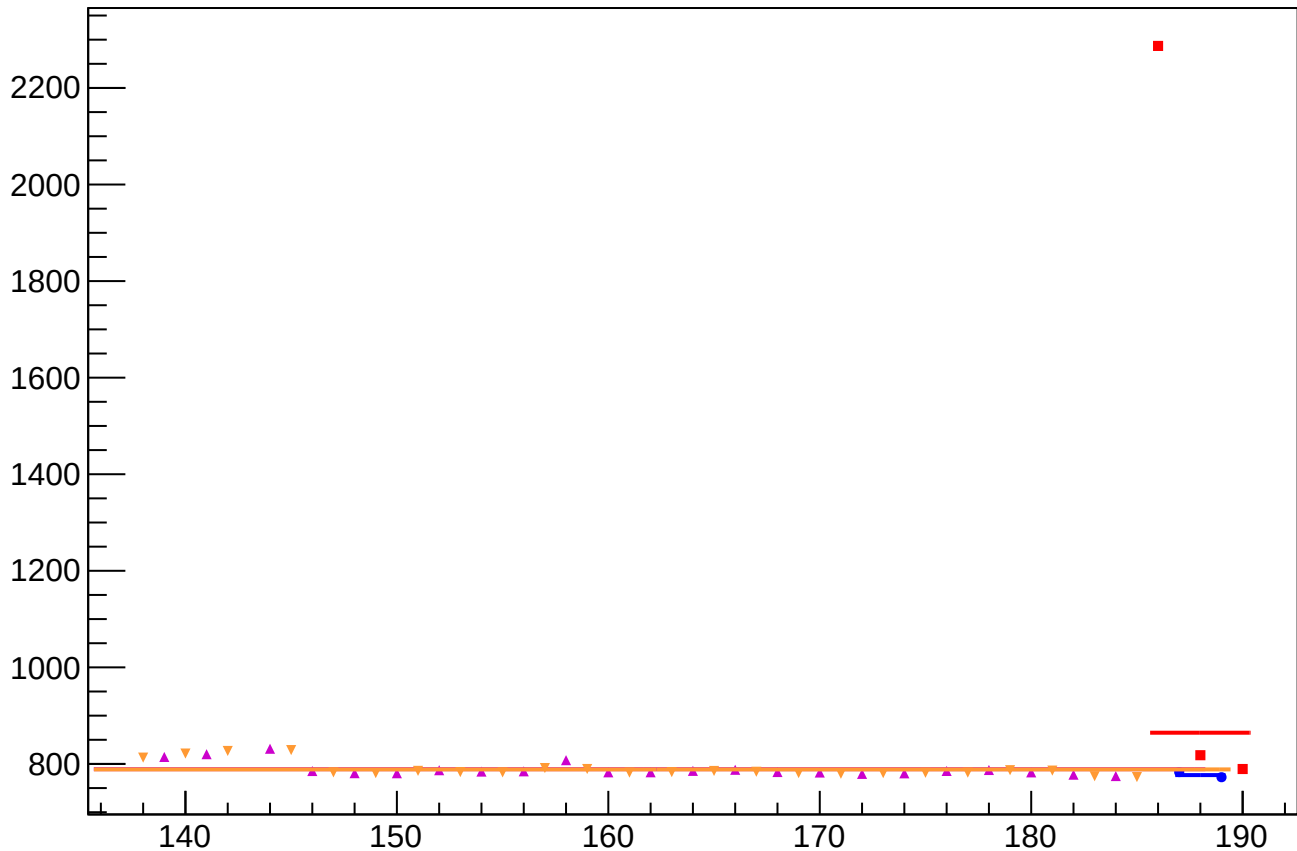
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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+/-0.918 χ^2/NDF : 32.5/1

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

Right Out: 864.658+/-0.506 χ^2/NDF : 306489.7/2

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

Left: 788.914+/-0.094 χ^2/NDF : 22367.7/46

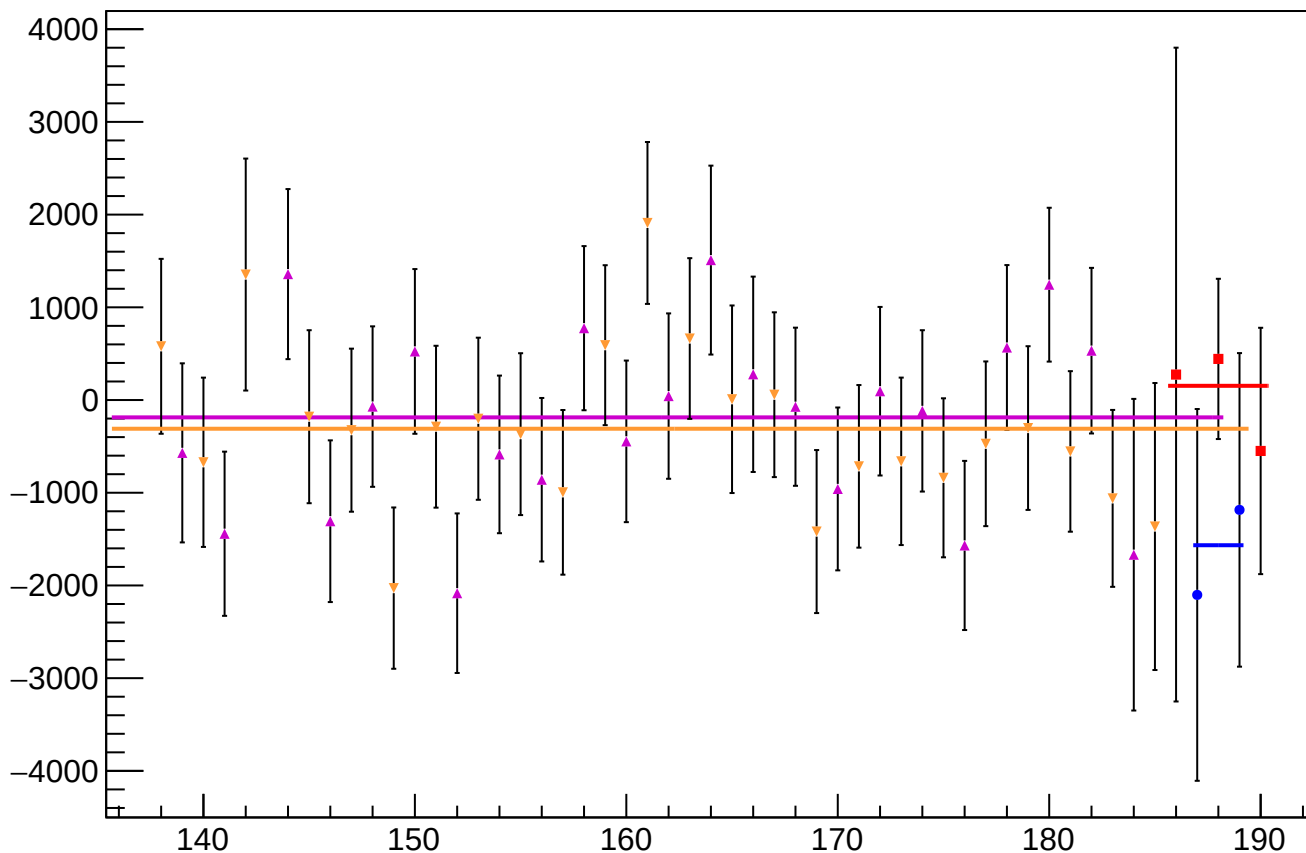
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

In: 788.918+/-0.133 χ^2/NDF : 11068.4/24

Out: 793.541+/-0.128 χ^2/NDF : 339118.2/26

All: 791.315+/-0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

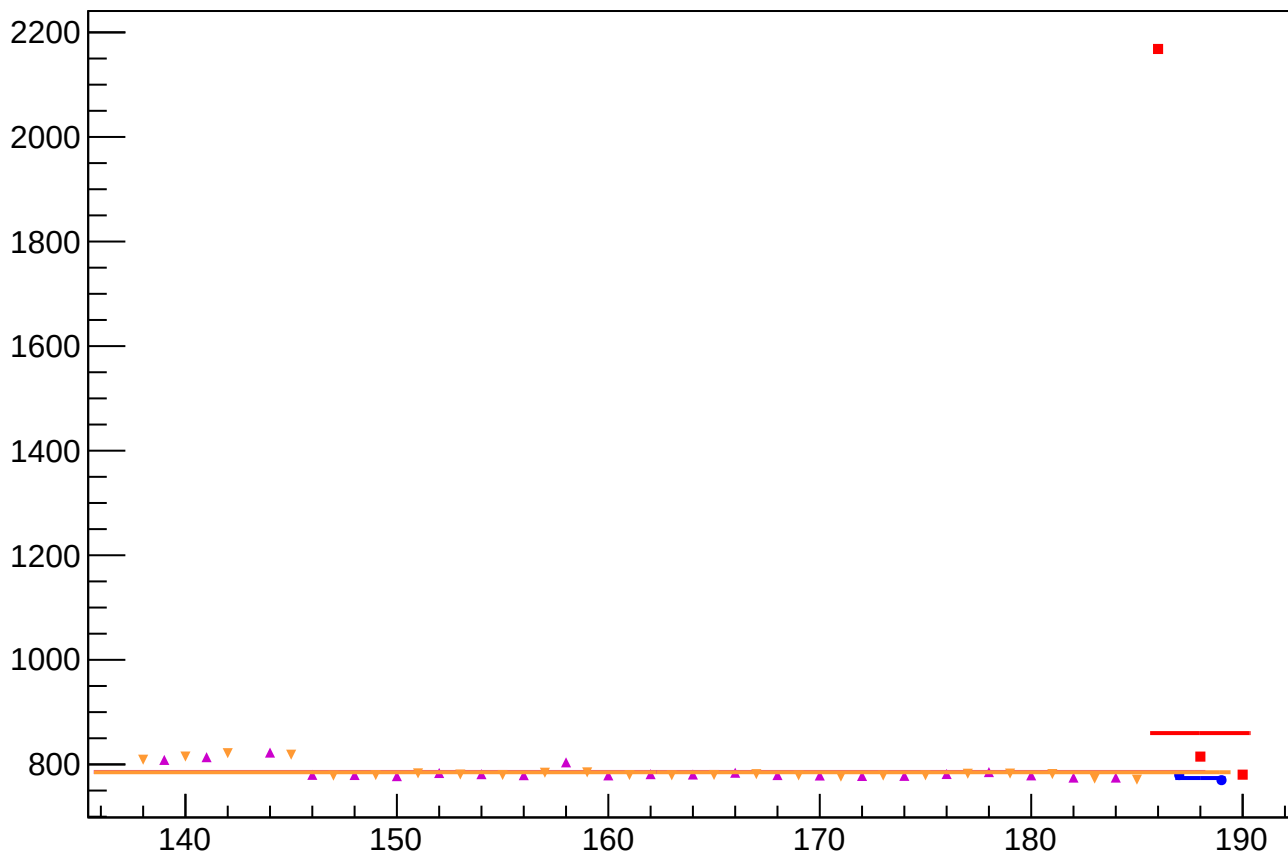
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

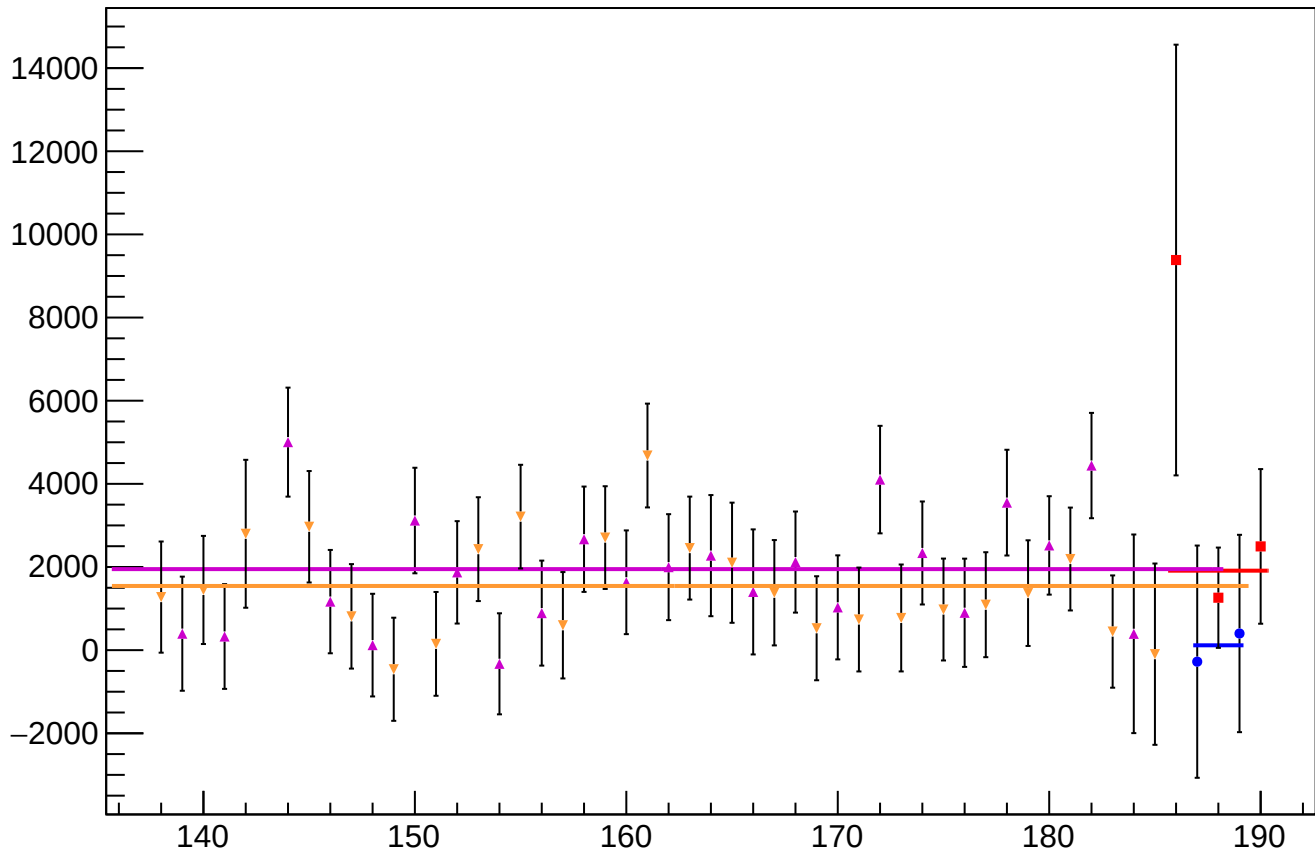
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

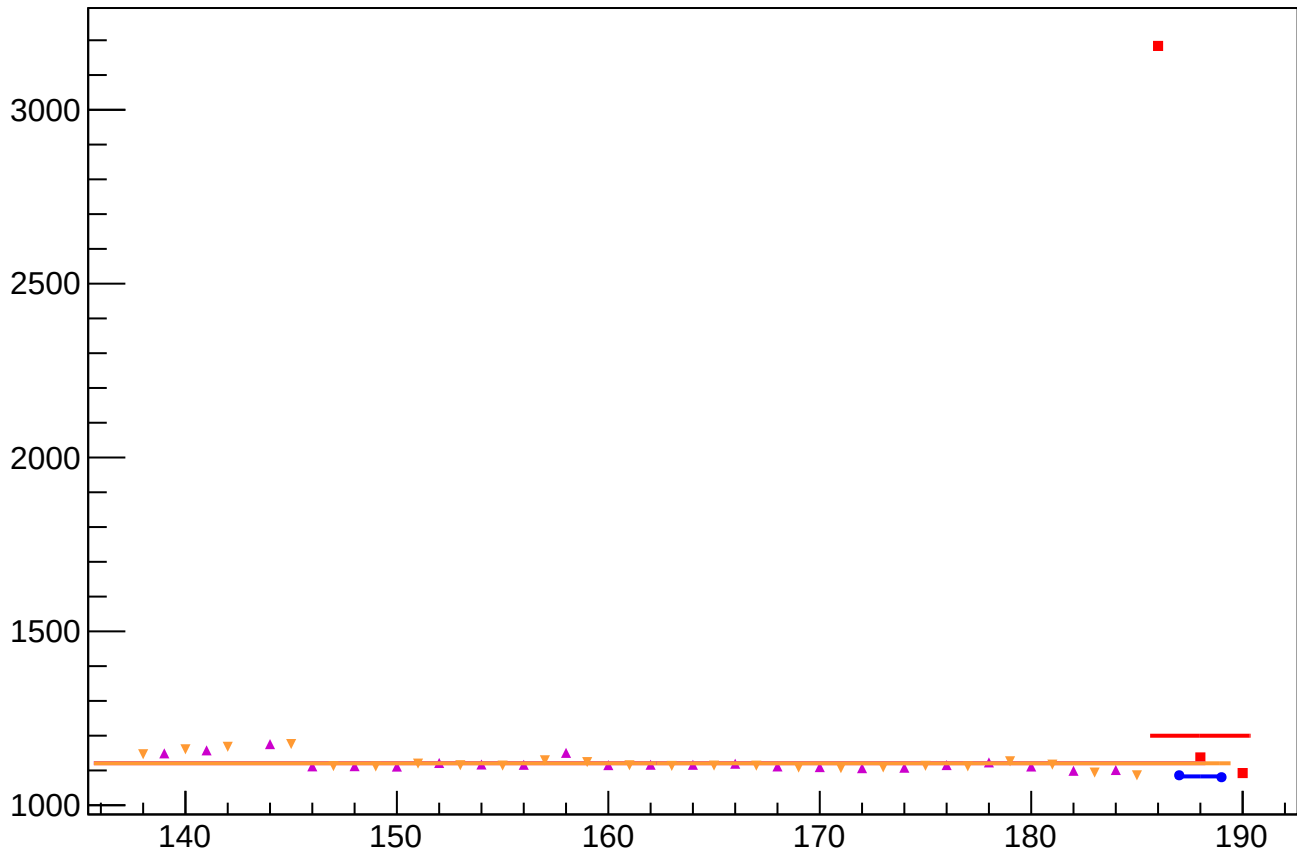
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866 $\pm$ 1.279 χ^2 /NDF: 4.6/1

Left Out: 1120.578 $\pm$ 0.188 χ^2 /NDF: 10264.0/23

Right Out: 1199.844 $\pm$ 0.702 χ^2 /NDF: 305356.1/2

Left In: 1120.977 $\pm$ 0.191 χ^2 /NDF: 9259.6/22

Left: 1120.775 $\pm$ 0.134 χ^2 /NDF: 19525.9/46

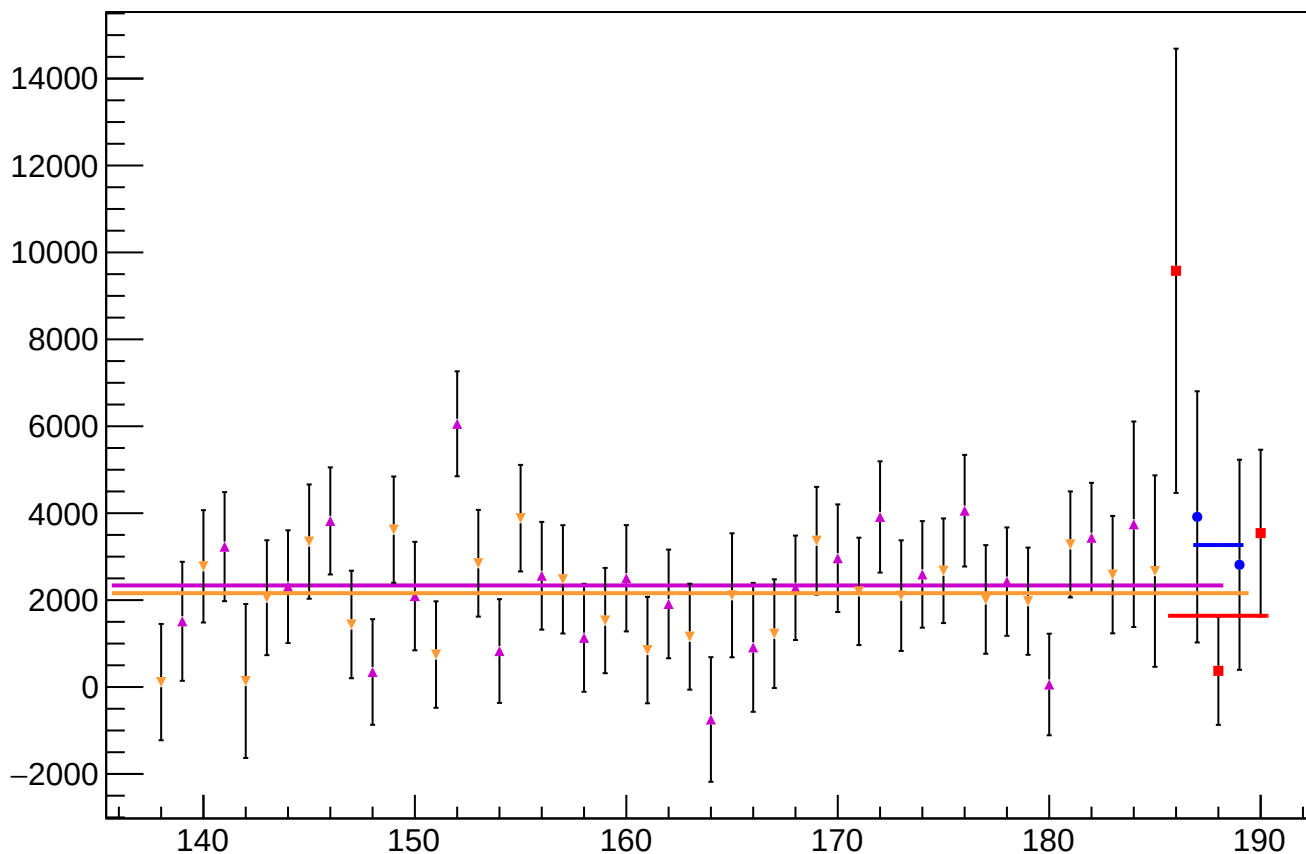
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

In: 1120.146 $\pm$ 0.189 χ^2 /NDF: 10132.9/24

Out: 1125.893 $\pm$ 0.182 χ^2 /NDF: 327503.8/26

All: 1123.129 $\pm$ 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

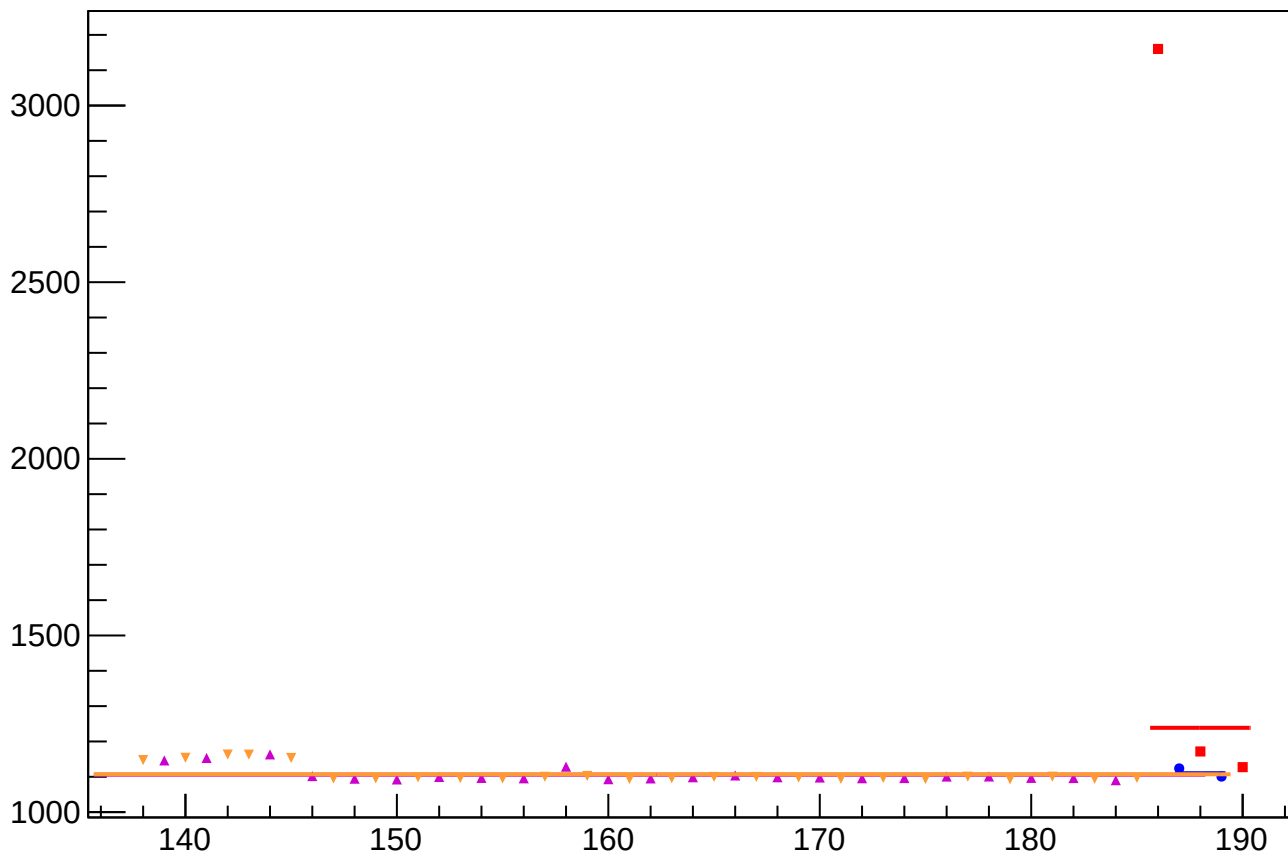
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

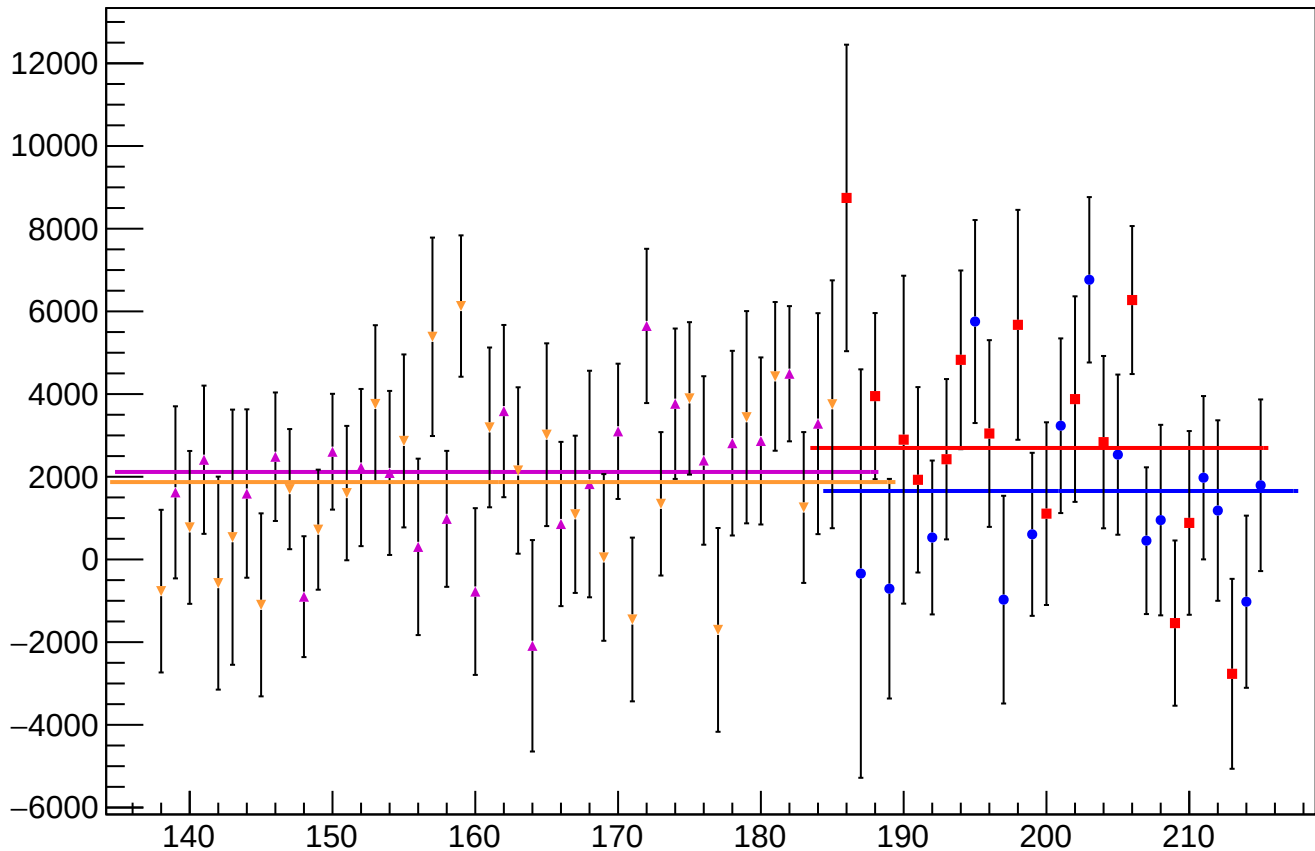
Right: 1208.687+/-0.633 χ^2 /NDF: 302689.7/4

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

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

Right Out: 2696.538 $\pm$ 583.220 χ^2 /NDF: 20.9/14

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

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

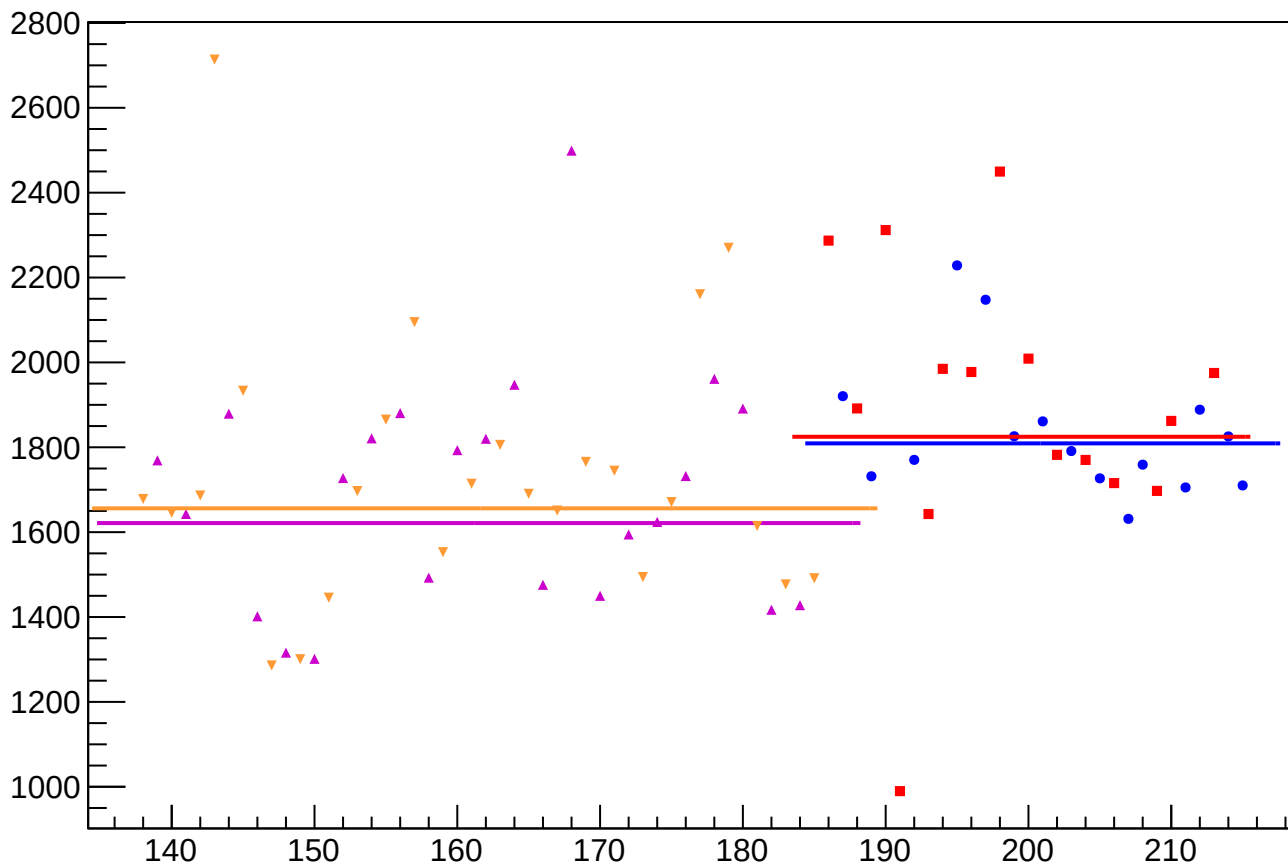
Right: 2151.973 $\pm$ 402.641 χ^2 /NDF: 37.6/29

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

Out: 2128.045 $\pm$ 325.160 χ^2 /NDF: 48.4/39

All: 2044.492 $\pm$ 228.448 χ^2 /NDF: 82.8/77

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1809.190+/-0.394 χ^2/NDF : 137274.9/14

Left Out: 1656.119+/-0.277 χ^2/NDF : 910573.4/24

Right Out: 1824.776+/-0.412 χ^2/NDF : 520140.2/14

Left In: 1621.417+/-0.278 χ^2/NDF : 775310.1/22

Left: 1638.826+/-0.196 χ^2/NDF : 1693706.9/47

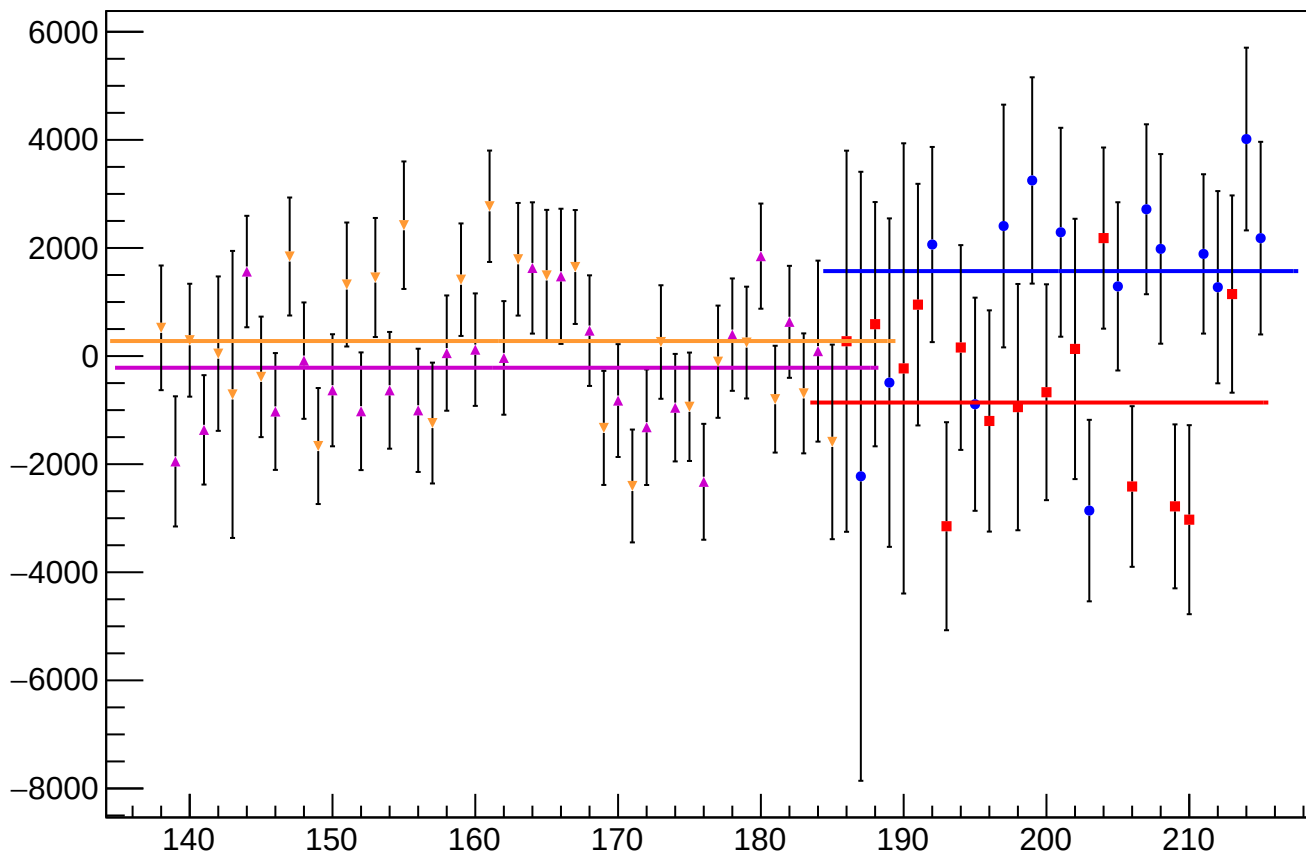
Right: 1816.619+/-0.285 χ^2/NDF : 658162.7/29

In: 1683.892+/-0.227 χ^2/NDF : 1064497.0/37

Out: 1708.544+/-0.230 χ^2/NDF : 1545978.7/39

All: 1696.060+/-0.162 χ^2/NDF : 2616297.0/77

asym_us_agg_dd_mean vs Slug, Sign Corrected



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

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

Right Out: -859.724 $\pm$ 512.456 χ^2 /NDF: 11.8/14

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

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

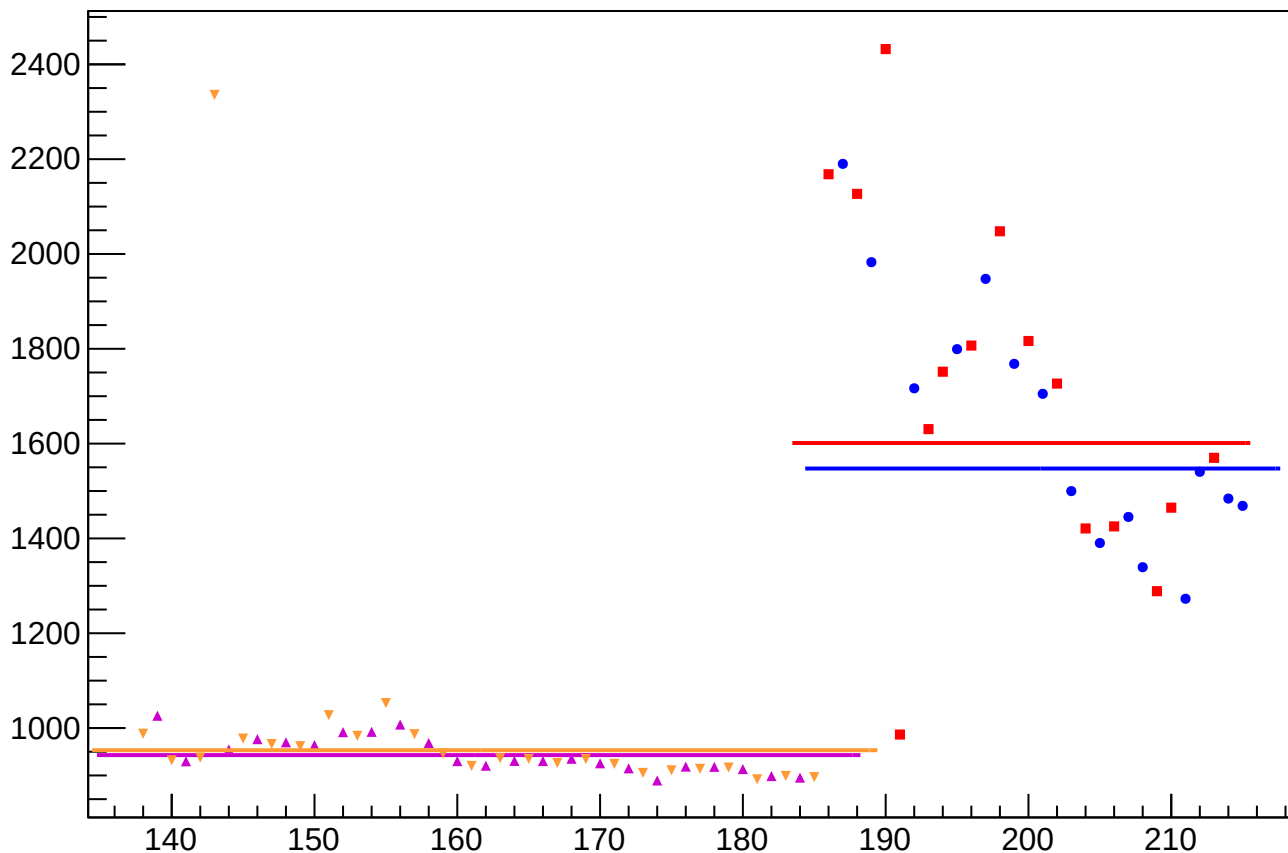
Right: 441.495 $\pm$ 349.422 χ^2 /NDF: 37.4/29

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

Out: 96.140 $\pm$ 204.926 χ^2 /NDF:54.4/39

All: 103.102 $\pm$ 144.574 χ^2 /NDF: 103.7/77

asym_us_agg_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 1601.308+/-0.362 χ^2/NDF : 678469.4/14

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

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

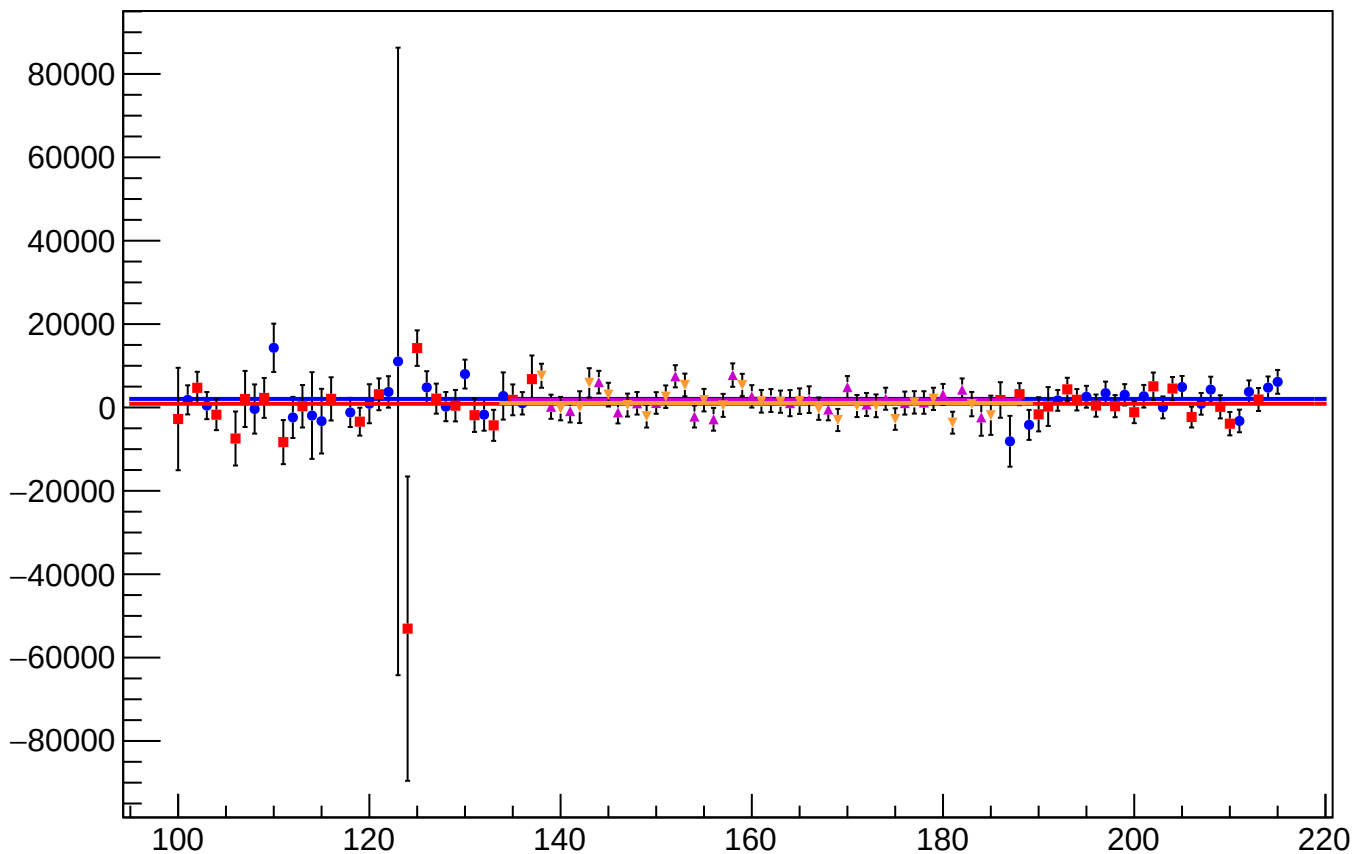
Right: 1572.475+/-0.247 χ^2/NDF : 1045896.3/29

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

Out: 1056.858+/-0.145 χ^2/NDF : 3971994.2/39

All: 1055.004+/-0.102 χ^2/NDF : 6995010.8/77

reg_asym_atl1_mean vs Slug, Sign Corrected



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

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

Right Out: 884.145 $\pm$ 604.885 χ^2 /NDF: 35.8/33

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

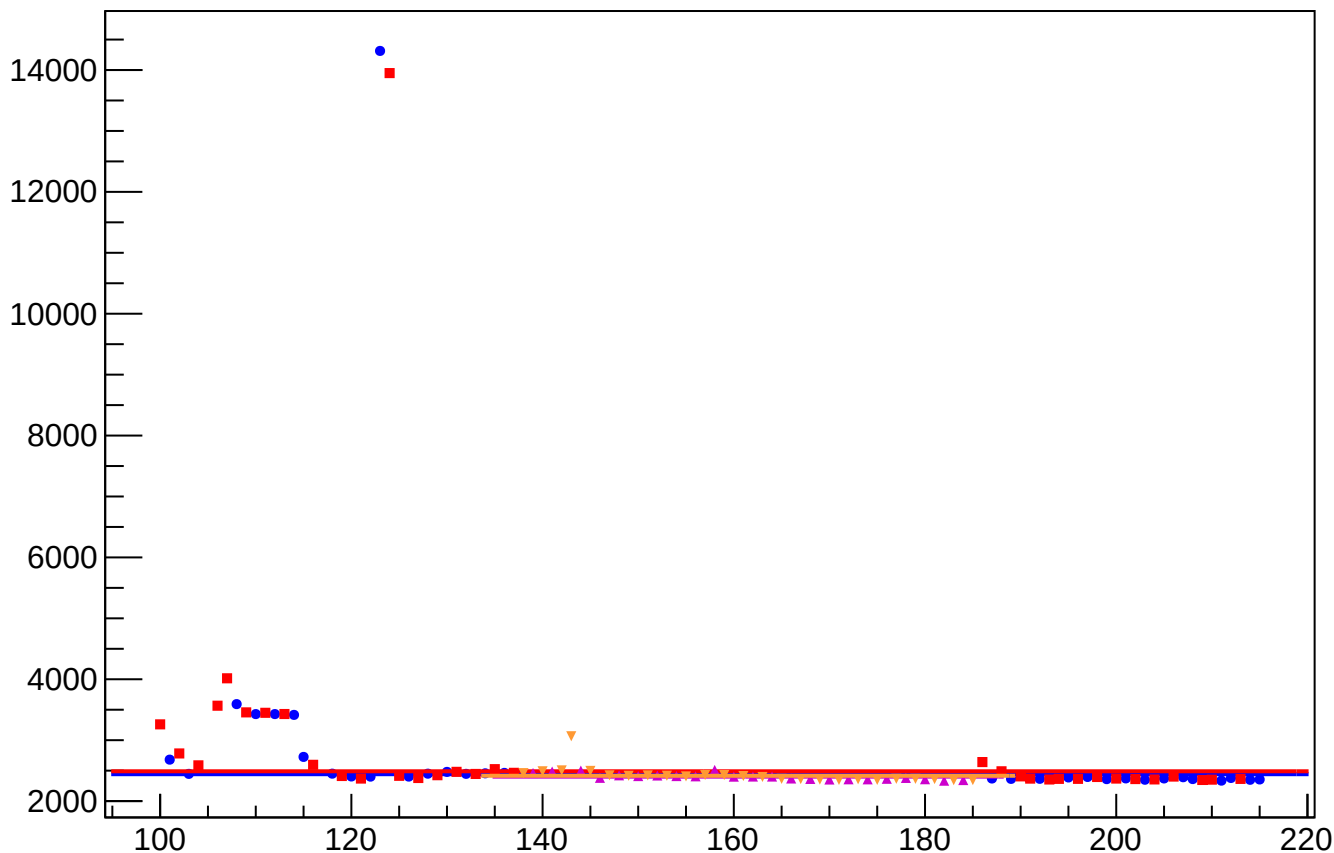
Right: 1482.156 $\pm$ 422.441 χ^2 /NDF: 66.0/65

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

Out: 987.873 $\pm$ 412.507 χ^2 /NDF: 59.4/58

All: 1449.761 $\pm$ 291.576 χ^2 /NDF: 114.4/113

reg_asym_atl1_rms vs Slug, Sign Corrected



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

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

Right Out: 2489.638 $\pm$ 0.428 χ^2 /NDF: 648664.6/33

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

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

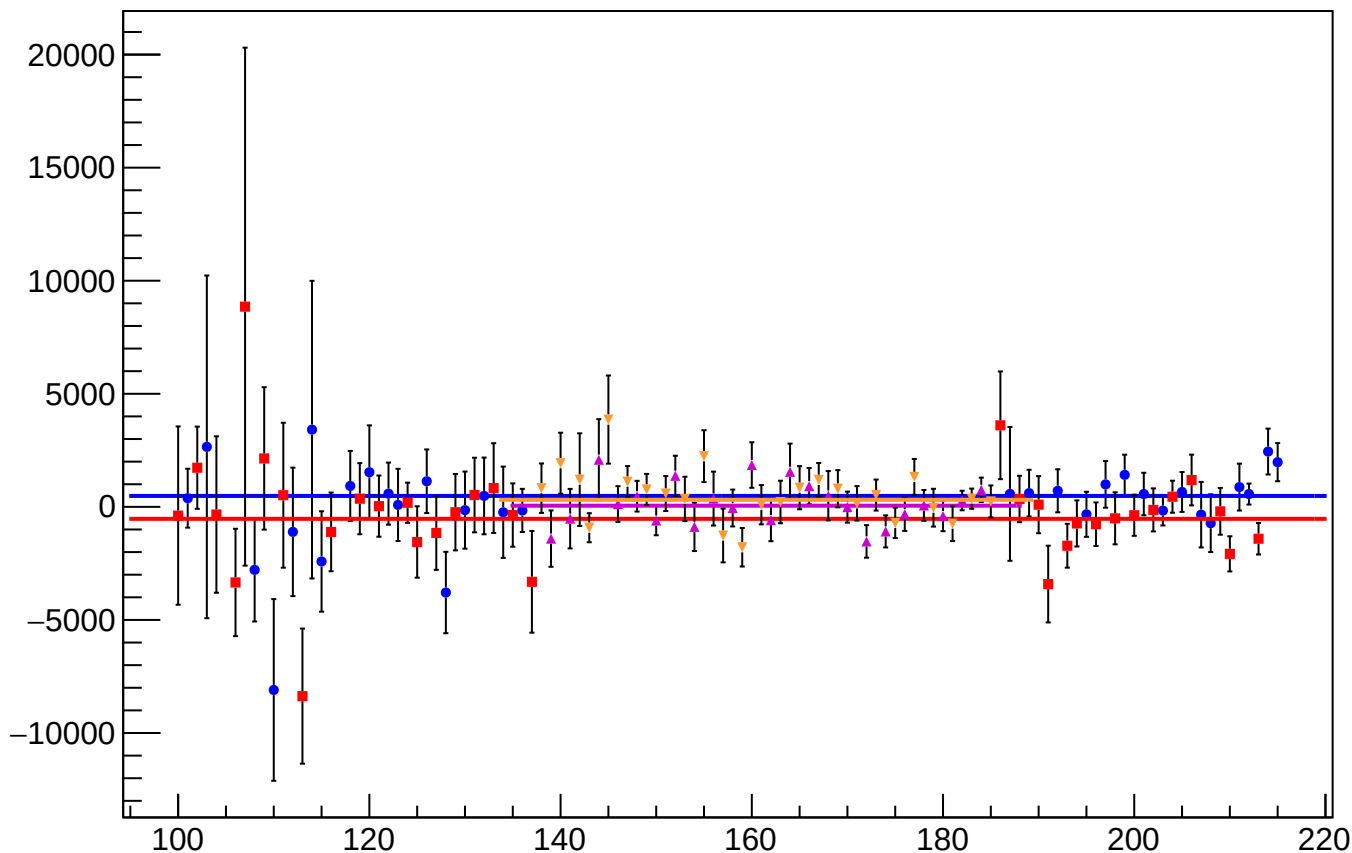
Right: 2465.038 $\pm$ 0.299 χ^2 /NDF: 971358.3/65

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

Out: 2450.257 $\pm$ 0.292 χ^2 /NDF: 747147.9/58

All: 2435.630 $\pm$ 0.206 χ^2 /NDF: 1086909.4/111

asym_atl1_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -529.118 $\pm$ 214.840 χ^2 /NDF: 34.2/33

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

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

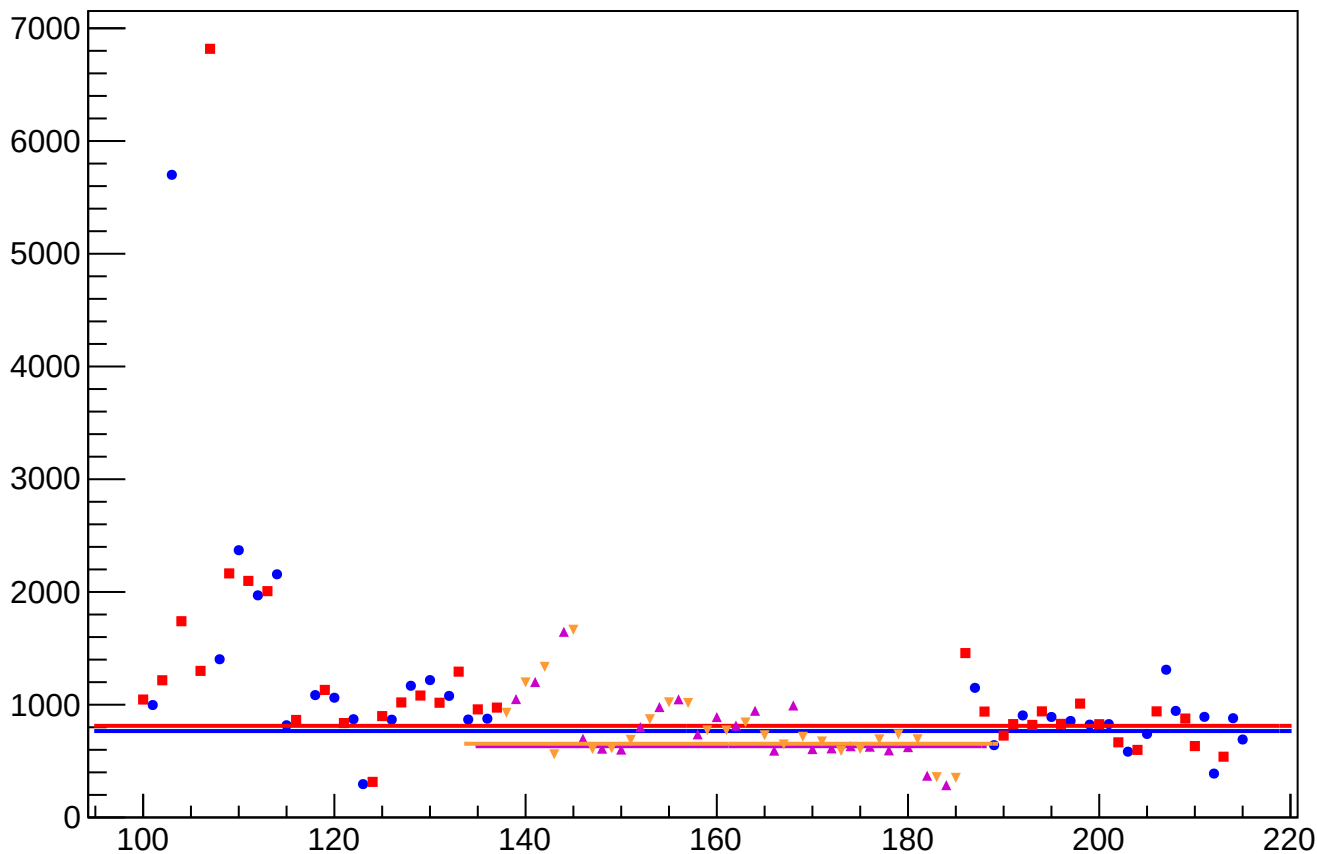
Right: 11.266 $\pm$ 146.714 χ^2 /NDF: 73.3/65

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

Out: 9.629 $\pm$ 128.658 χ^2 /NDF: 73.8/58

All: 117.764 $\pm$ 90.010 χ^2 /NDF: 129.1/113

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 766.349+/-0.142 χ^2/NDF : 4539781.5/31

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

Right Out: 812.655+/-0.152 χ^2/NDF : 3830942.3/33

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

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

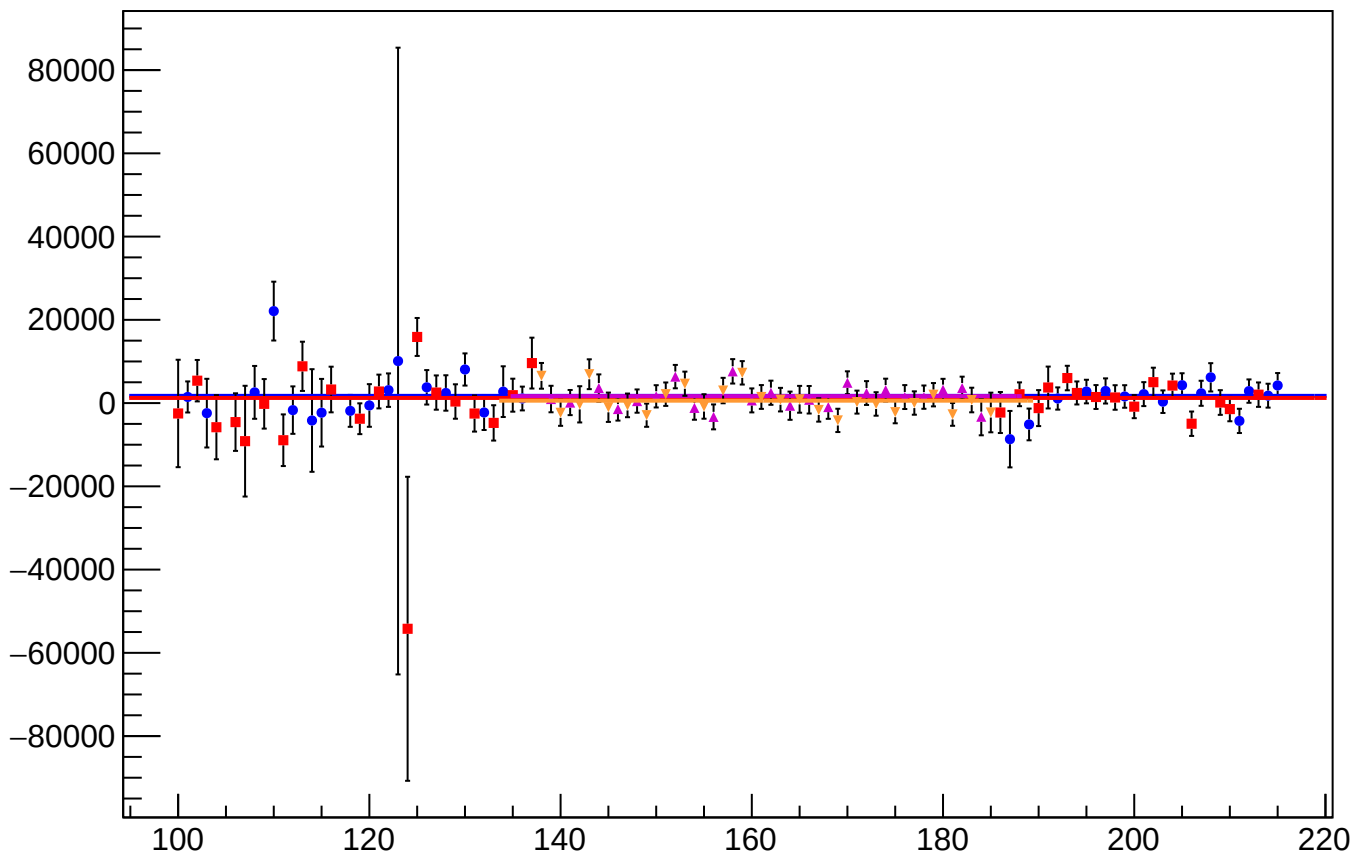
Right: 787.944+/-0.104 χ^2/NDF : 8420306.7/65

In: 684.887+/-0.089 χ^2/NDF : 9025078.0/54

Out: 710.771+/-0.091 χ^2/NDF : 7786926.7/58

All: 697.556+/-0.064 χ^2/NDF : 16853333.9/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1736.398 $\pm$ 646.295 χ^2 /NDF: 28.5/31

Left Out: 580.879 $\pm$ 597.173 χ^2 /NDF: 25.3/24

Right Out: 1234.960 $\pm$ 667.743 χ^2 /NDF: 39.2/33

Left In: 1679.572 $\pm$ 610.111 χ^2 /NDF: 18.2/22

Left: 1118.453 $\pm$ 426.766 χ^2 /NDF: 45.2/47

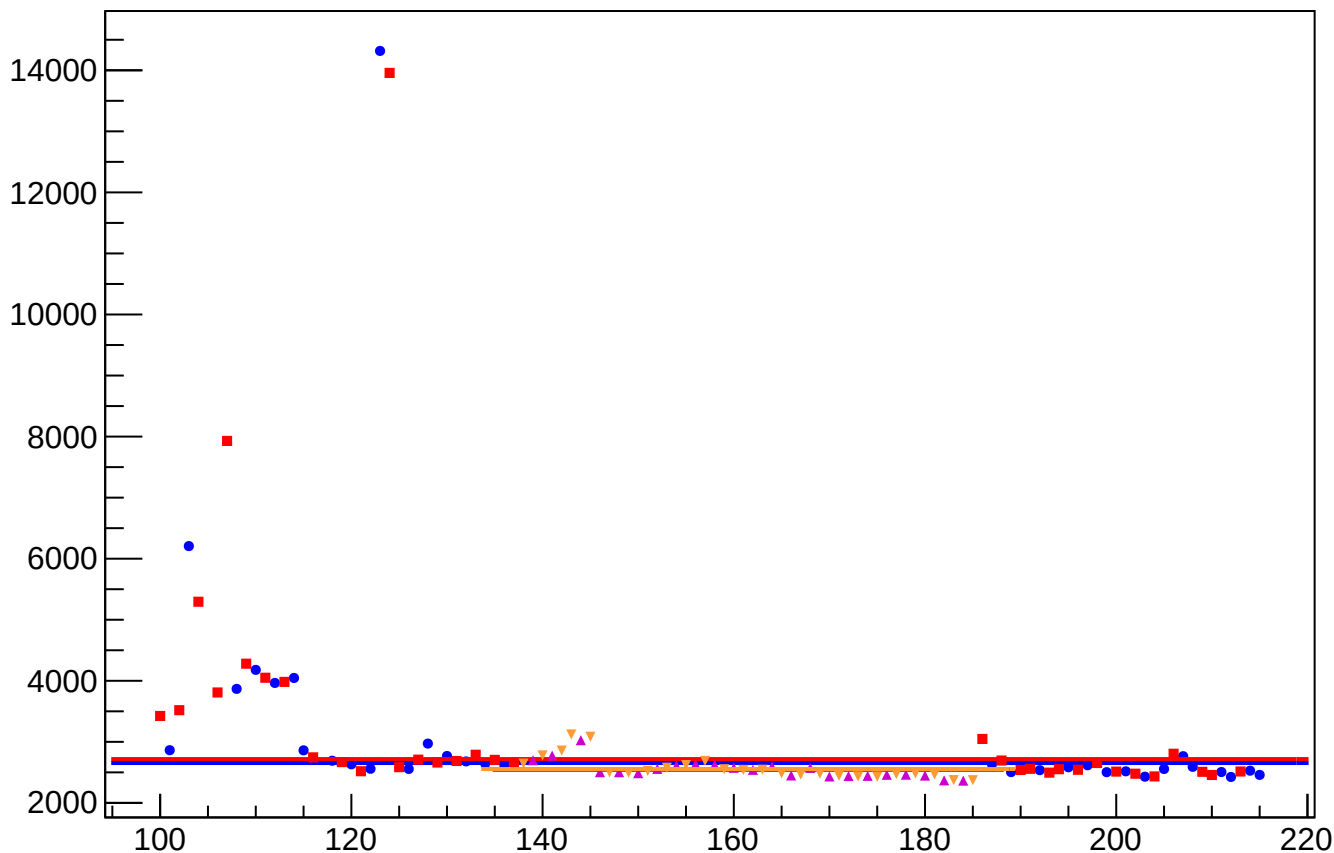
Right: 1493.862 $\pm$ 464.397 χ^2 /NDF: 68.0/65

In: 1706.350 $\pm$ 443.654 χ^2 /NDF: 46.7/54

Out: 871.541 $\pm$ 445.131 χ^2 /NDF: 65.1/58

All: 1290.333 $\pm$ 314.232 χ^2 /NDF: 113.5/113

asym_atl1_rms vs Slug, Sign Corrected



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

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

Right Out: 2717.896+/-0.472 χ^2/NDF : 1275992.2/33

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

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

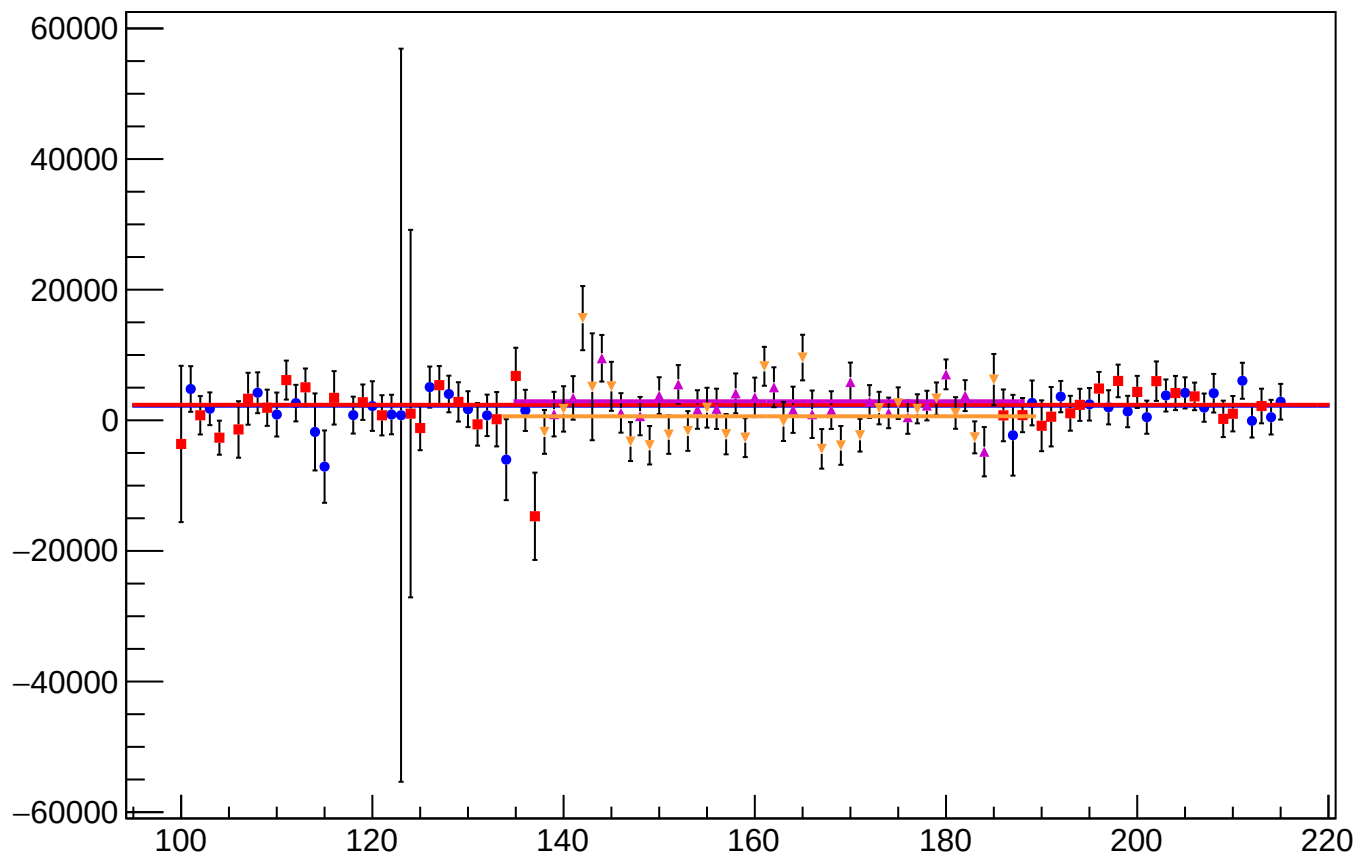
Right: 2684.520+/-0.328 χ^2/NDF : 2095031.2/65

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

Out: 2627.543+/-0.315 χ^2/NDF : 1496640.5/58

All: 2610.661+/-0.222 χ^2/NDF : 2438404.2/11

reg_asym_atl2_mean vs Slug, Sign Corrected



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

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

Right Out: 2373.002 $\pm$ 527.805 χ^2 /NDF: 27.3/33

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

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

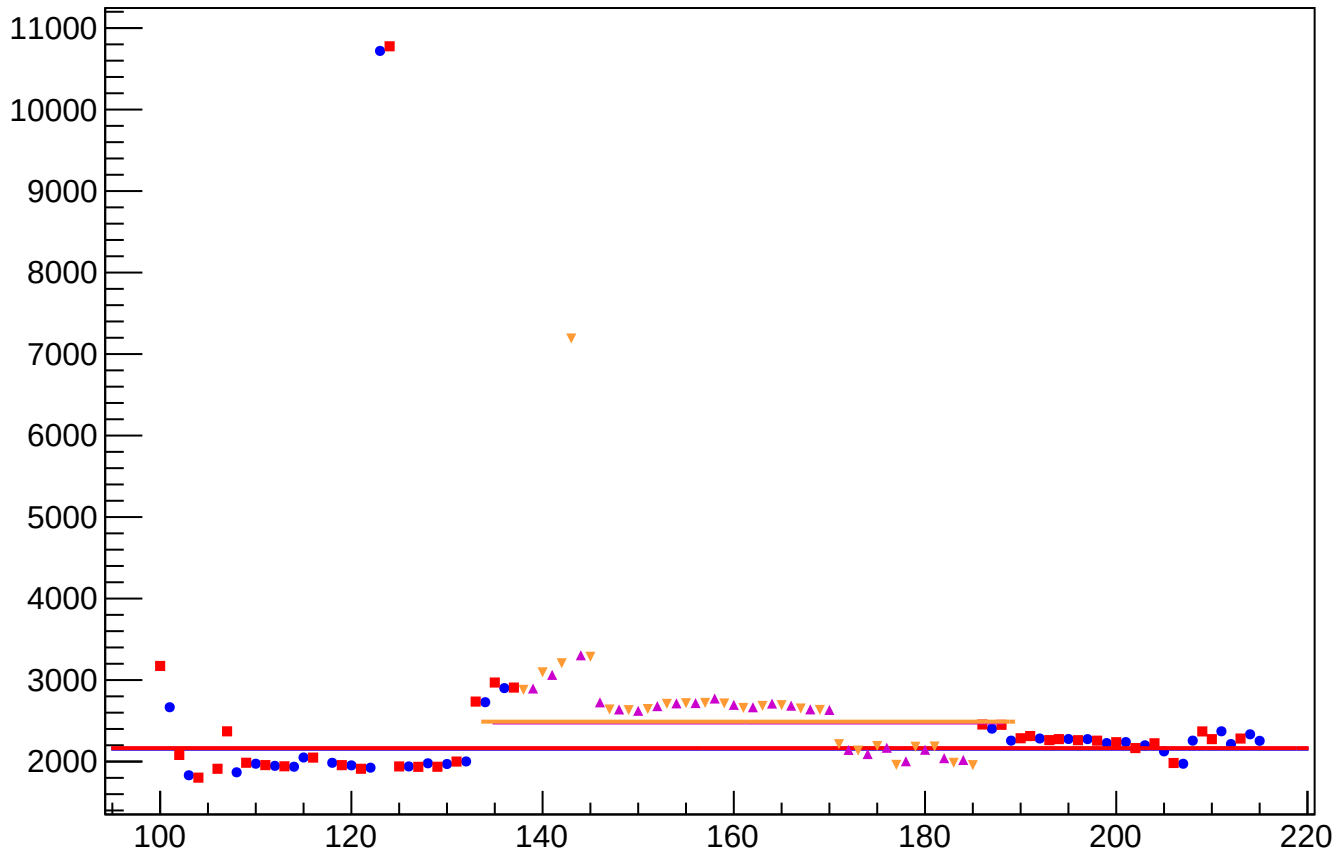
Right: 2303.647 $\pm$ 371.326 χ^2 /NDF: 41.8/65

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

Out: 1593.142 $\pm$ 393.712 χ^2 /NDF: 77.4/58

All: 2059.447 $\pm$ 278.478 χ^2 /NDF: 112.8/113

reg_asym_atl2_rms vs Slug, Sign Corrected



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

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

Right Out: 2164.784+/-0.373 χ^2/NDF : 567222.4/33

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

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

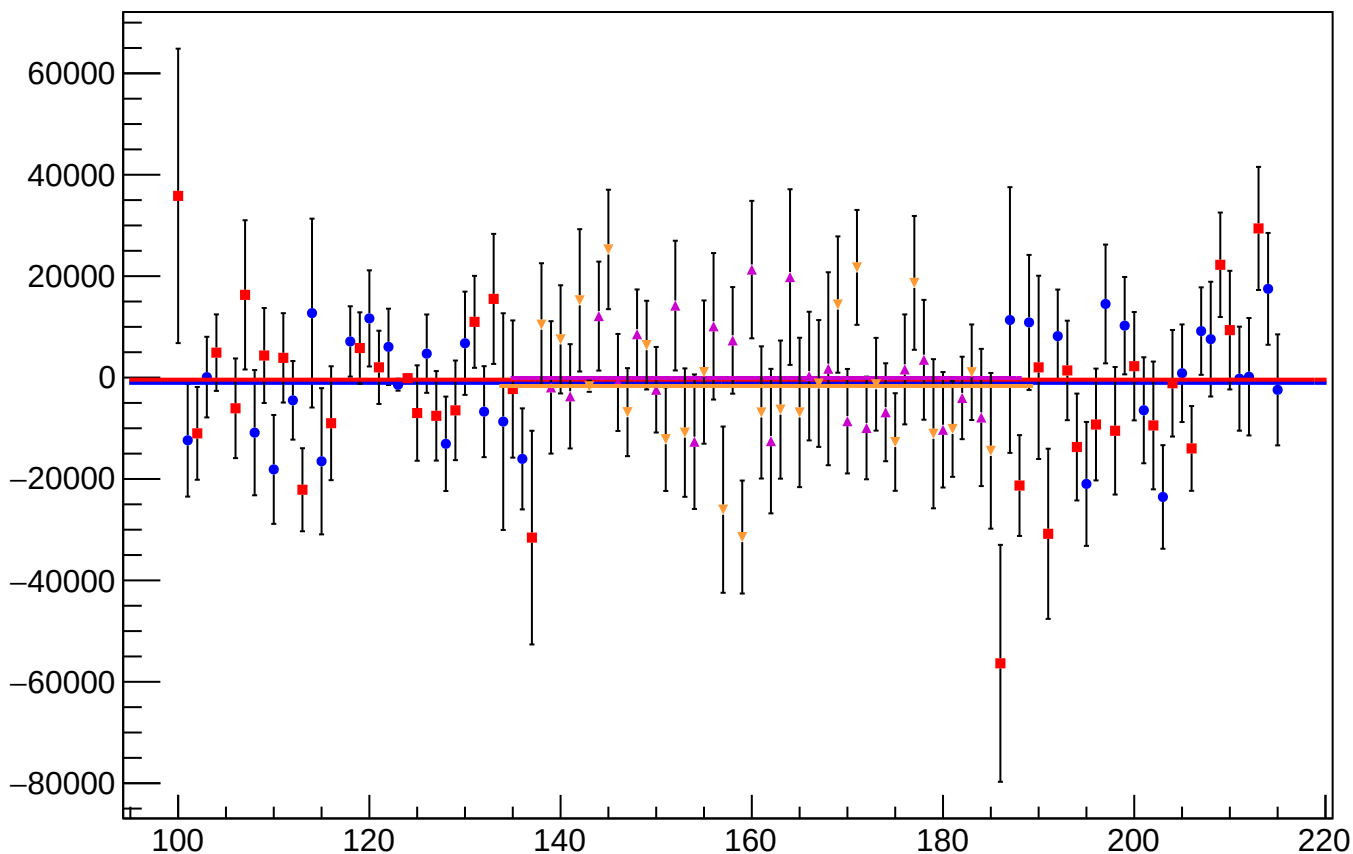
Right: 2161.086+/-0.263 χ^2/NDF : 978232.3/65

In: 2296.374+/-0.279 χ^2/NDF :1406775.0/54

Out: 2308.852+/-0.278 χ^2/NDF :2267365.6/58

All: 2302.617+/-0.197 χ^2/NDF : 3675144.4/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1039.418+/-986.707 χ^2/NDF : 33.7/31

Left Out: -1665.417+/-993.060 χ^2/NDF : 32.4/24

Right Out: -412.462+/-676.864 χ^2/NDF : 52.2/33

Left In: -80.274+/-2331.531 χ^2/NDF : 13.8/22

Left: -1422.008+/-913.639 χ^2/NDF : 46.6/47

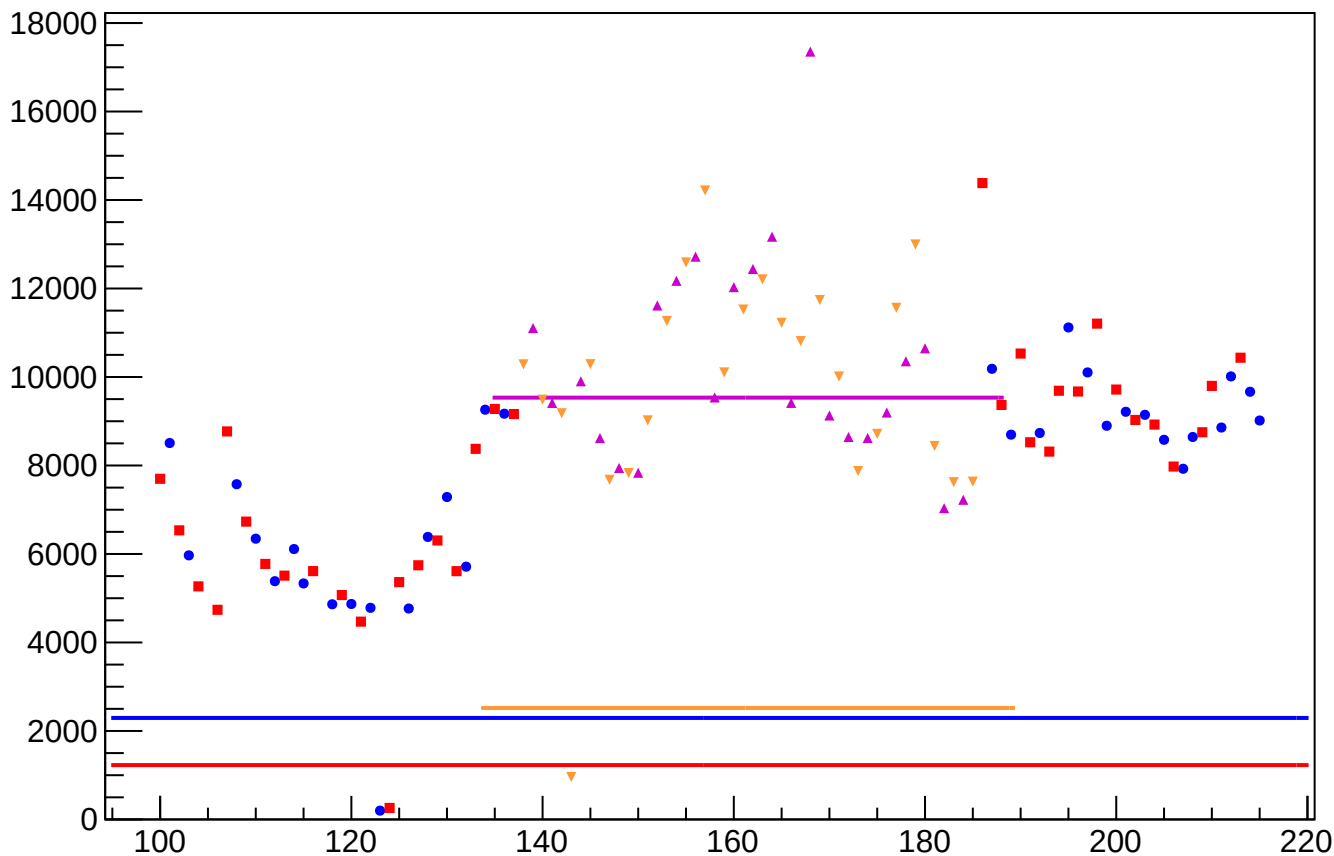
Right: -613.083+/-558.160 χ^2/NDF : 86.2/65

In: -893.729+/-908.684 χ^2/NDF : 47.7/54

Out: -809.907+/-559.302 χ^2/NDF : 85.6/58

All: -832.938+/-476.308 χ^2/NDF : 133.3/113

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2294.236+/-0.698

χ^2/NDF : 23685988.1/31

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right: 1569.784+/-0.395

χ^2/NDF : 52851281.3/65

Right Out: 1228.877+/-0.479

χ^2/NDF : 27579819.7/33

In: 3393.854+/-0.643

χ^2/NDF : 41355483.1/54

Out: 1638.226+/-0.395

χ^2/NDF : 53528007.5/58

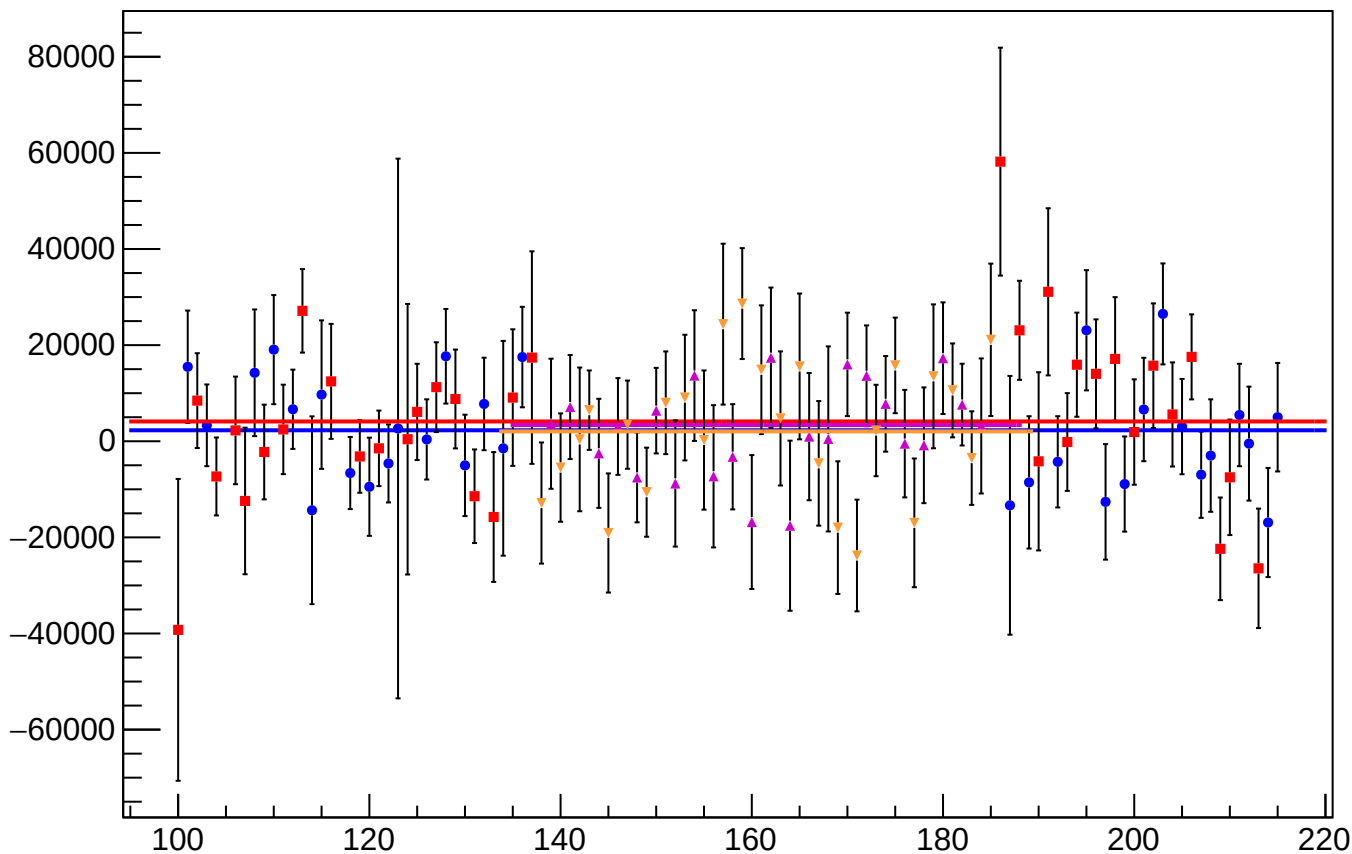
Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2120.598+/-0.337

χ^2/NDF : 100297912.9

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2282.588+/-1906.944 χ^2/NDF : 31.3/31

Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24

Right Out: 4118.387+/-1900.175 χ^2/NDF : 51.4/33

Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47

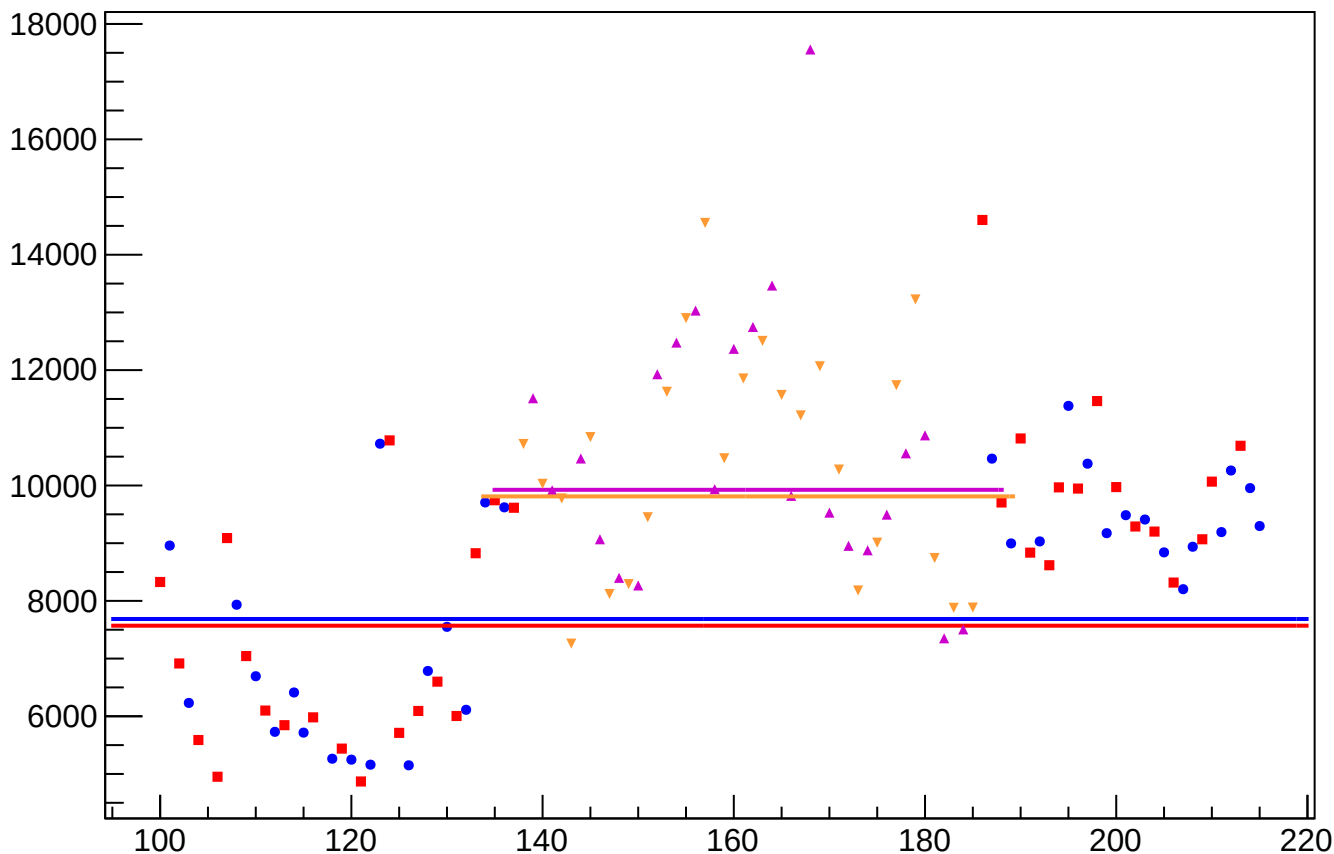
Right: 3203.751+/-1346.013 χ^2/NDF : 83.1/65

In: 2699.195+/-1498.573 χ^2/NDF : 44.5/54

Out: 3296.072+/-1473.450 χ^2/NDF : 82.6/58

All: 3002.679+/-1050.656 χ^2/NDF : 127.2/113

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7686.204+/-1.348 χ^2/NDF : 1934412.3/31

Left Out: 9811.053+/-1.650 χ^2/NDF : 1213831.0/24

Right Out: 7570.018+/-1.344 χ^2/NDF : 2286337.3/33

Left In: 9925.337+/-1.713 χ^2/NDF : 1211554.7/22

Left: 9866.039+/-1.189 χ^2/NDF : 2427693.8/47

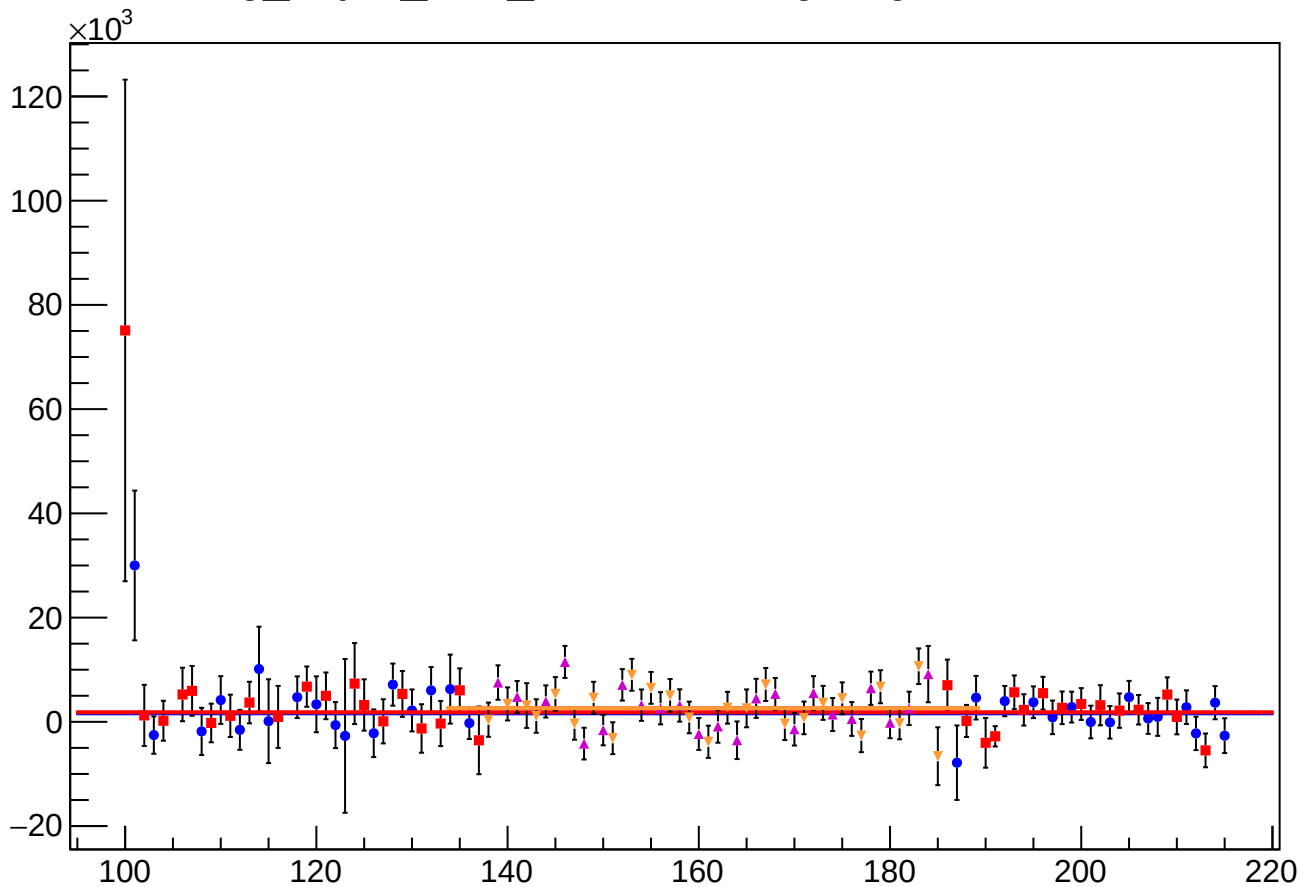
Right: 7627.903+/-0.952 χ^2/NDF : 4224475.4/65

In: 8542.508+/-1.060 χ^2/NDF : 4200559.8/54

Out: 8463.481+/-1.042 χ^2/NDF : 4609386.2/58

All: 8502.326+/-0.743 χ^2/NDF : 8812774.1/11

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1635.986 $\pm$ 678.155 χ^2 /NDF: 22.4/31

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

Right Out: 1838.518 $\pm$ 645.890 χ^2 /NDF: 28.2/33

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

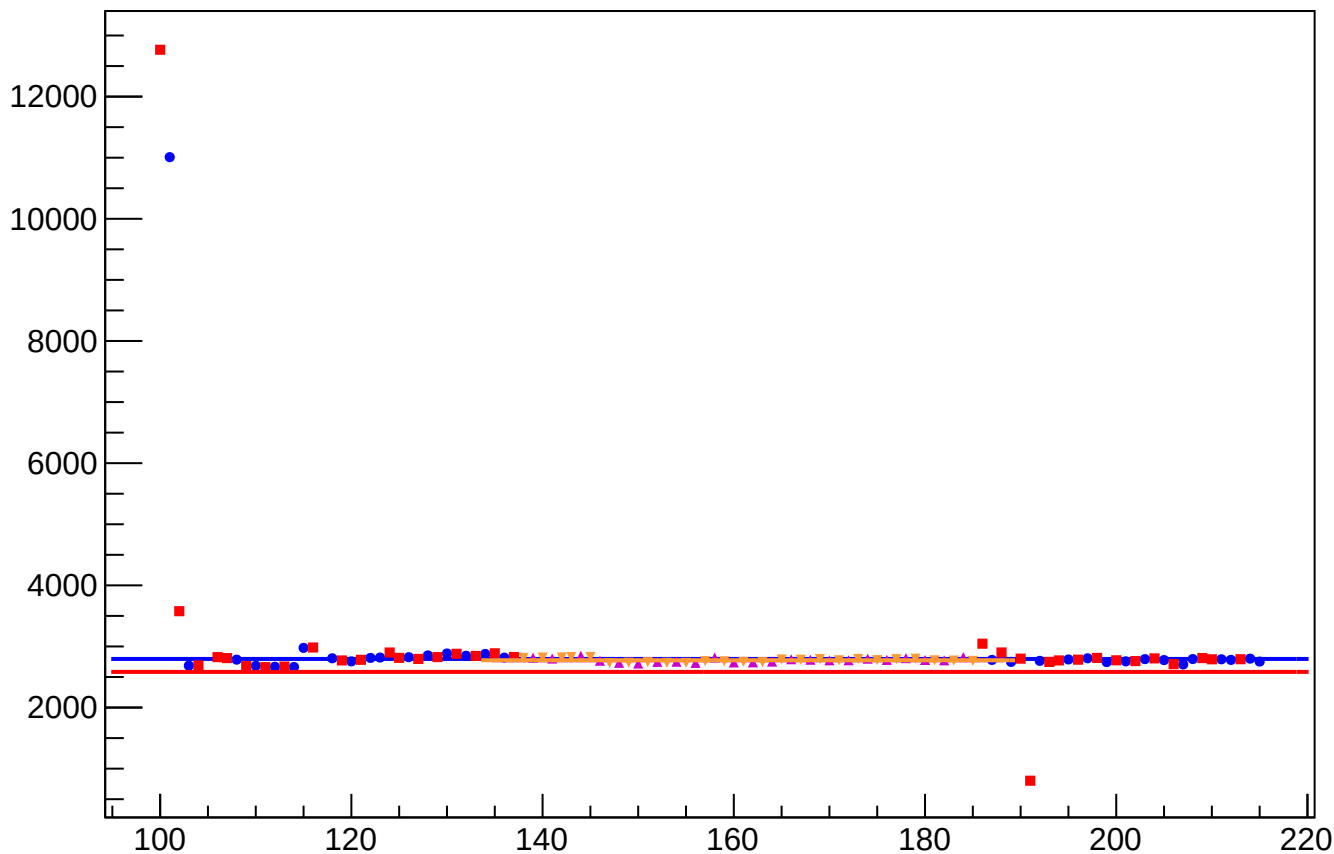
Right: 1742.185 $\pm$ 467.704 χ^2 /NDF: 50.7/65

In: 2147.440 $\pm$ 474.652 χ^2 /NDF: 58.8/54

Out: 2237.033 $\pm$ 456.795 χ^2 /NDF: 64.0/58

All: 2193.954 $\pm$ 329.135 χ^2 /NDF: 122.8/113

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2795.734+/-0.480 χ^2/NDF : 667034.5/31

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

Right Out: 2583.684+/-0.457 χ^2/NDF : 2022414.6/33

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

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

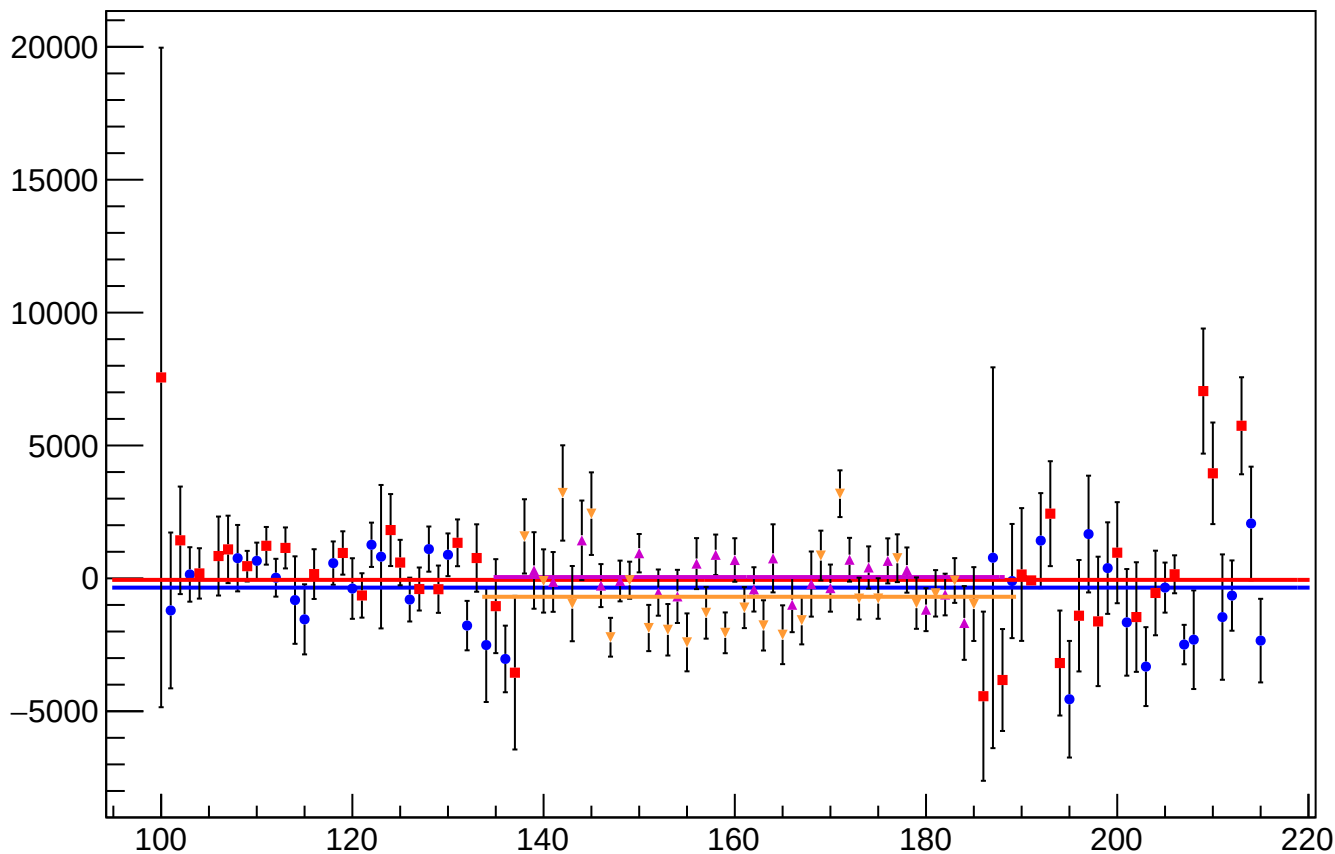
Right: 2684.545+/-0.331 χ^2/NDF : 2791985.0/65

In: 2784.666+/-0.336 χ^2/NDF : 673064.3/54

Out: 2678.664+/-0.323 χ^2/NDF : 2113562.0/58

All: 2729.634+/-0.233 χ^2/NDF : 2838411.4/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -348.176 ± 205.744 $\chi^2/\text{NDF}: 45.9/31$

Left Out: -692.808 ± 187.297 $\chi^2/\text{NDF}: 56.0/24$

Right Out: -56.733 ± 37.802 $\chi^2/\text{NDF}: 53.8/33$

Left In: 49.244 ± 189.190 $\chi^2/\text{NDF}: 13.6/22$

Left: -325.512 ± 133.103 $\chi^2/\text{NDF}: 77.4/47$

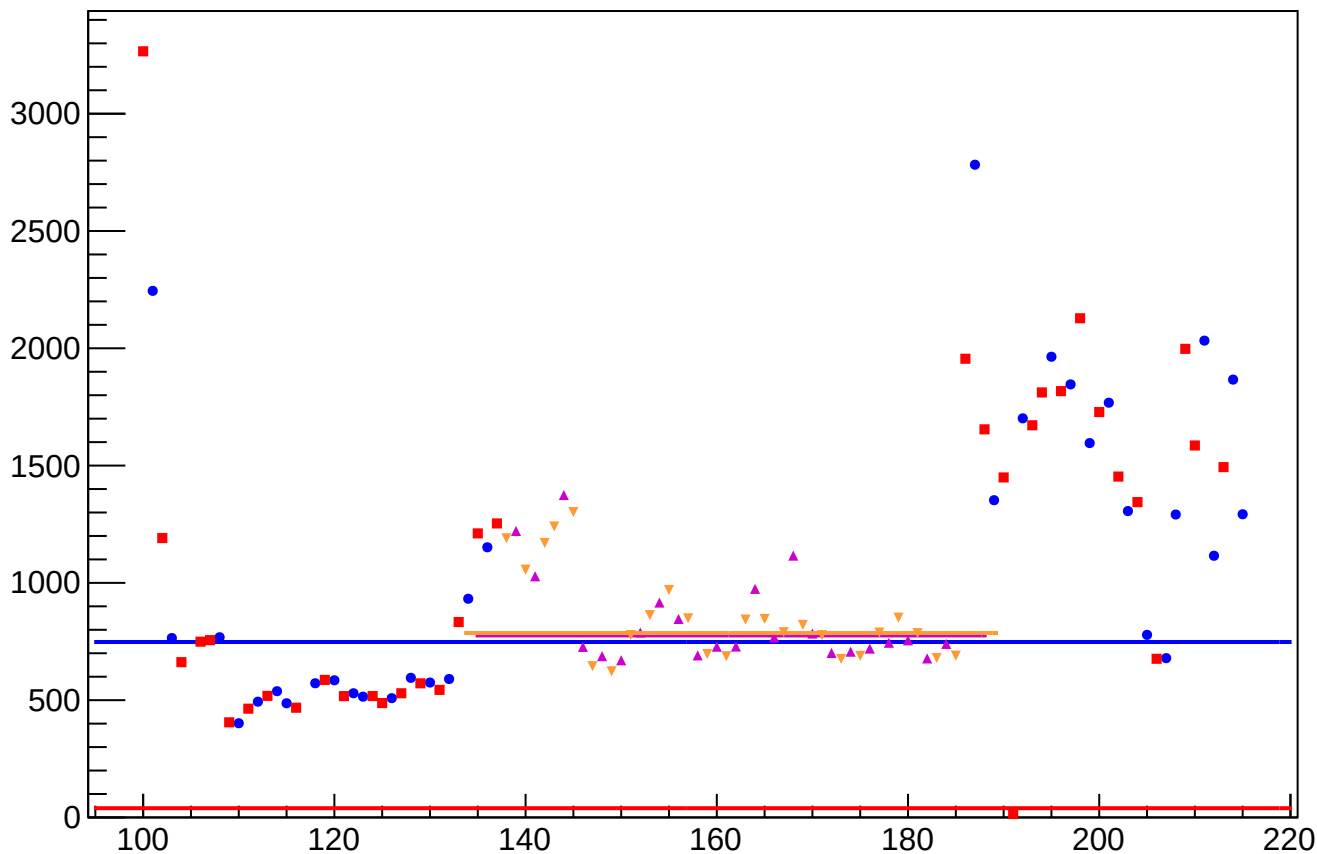
Right: -66.251 ± 37.180 $\chi^2/\text{NDF}: 101.6/65$

In: -132.837 ± 139.263 $\chi^2/\text{NDF}: 61.6/54$

Out: -81.630 ± 37.055 $\chi^2/\text{NDF}: 120.8/58$

All: -85.016 ± 35.809 $\chi^2/\text{NDF}: 182.5/113$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 747.961+/-0.145 χ^2/NDF : 7303335.2/31

Left Out: 786.173+/-0.132 χ^2/NDF :1249536.1/24

Right Out: 39.469+/-0.027 χ^2/NDF : 30838728.6/33

Left In: 775.930+/-0.134 χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

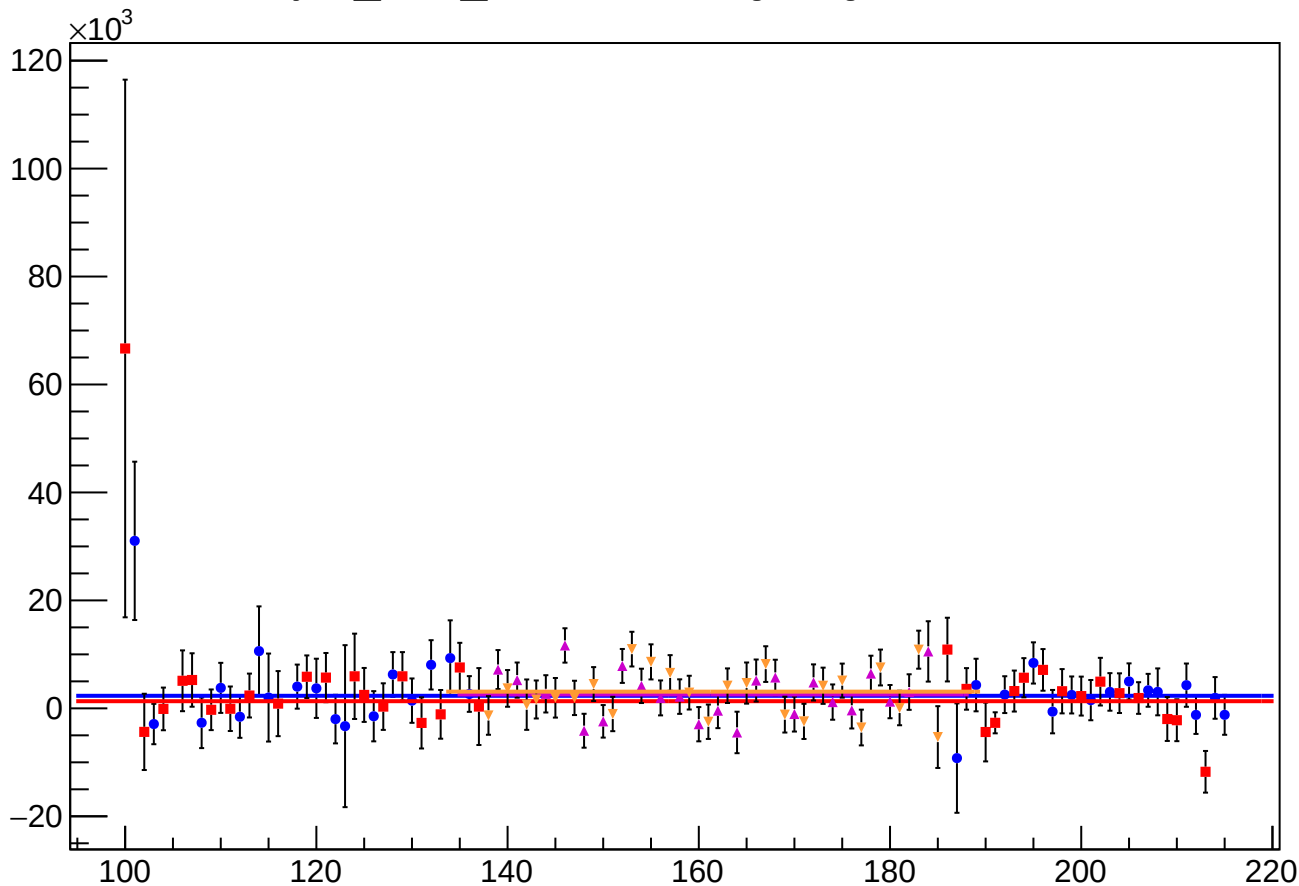
Right: 62.606+/-0.026 χ^2/NDF : 61083693.9/65

In: 763.116+/-0.098 χ^2/NDF :8380128.0/54

Out: 68.696+/-0.026 χ^2/NDF :62632067.9/58

All: 114.610+/-0.025 χ^2/NDF : 117452633.8/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2326.002 $\pm$ 750.626 χ^2 /NDF: 22.1/31

Left Out: 3094.826 $\pm$ 678.510 χ^2 /NDF:38.7/24

Right Out: 1324.805 $\pm$ 709.806 χ^2 /NDF: 36.9/33

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF:35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

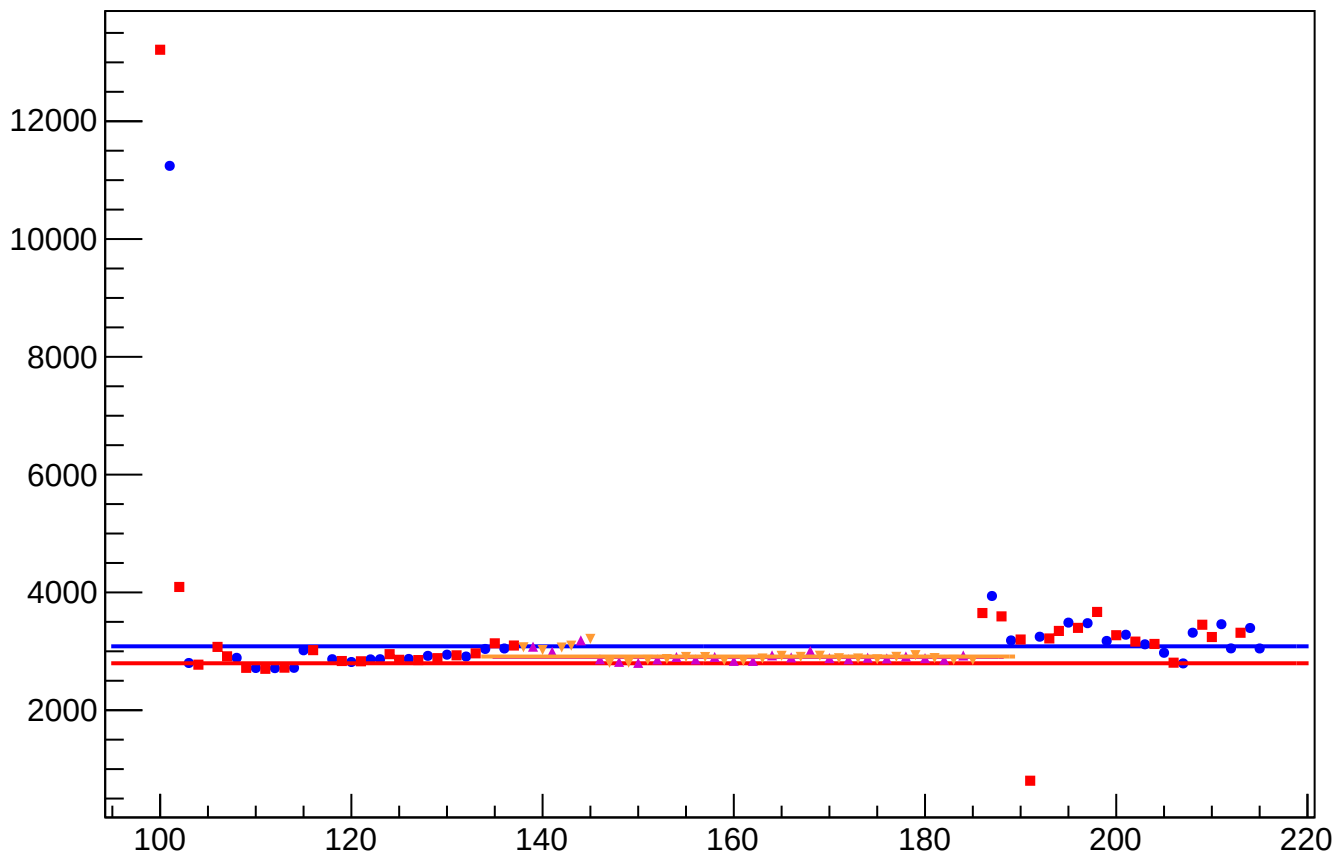
Right: 1797.441 $\pm$ 515.736 χ^2 /NDF: 60.0/65

In: 2458.950 $\pm$ 510.286 χ^2 /NDF:57.8/54

Out: 2249.695 $\pm$ 490.470 χ^2 /NDF:78.8/58

All: 2350.181 $\pm$ 353.612 χ^2 /NDF: 136.8/113

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3084.807+/-0.531 χ^2/NDF : 822045.5/31

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

Right Out: 2796.974+/-0.502 χ^2/NDF : 2808394.0/33

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

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

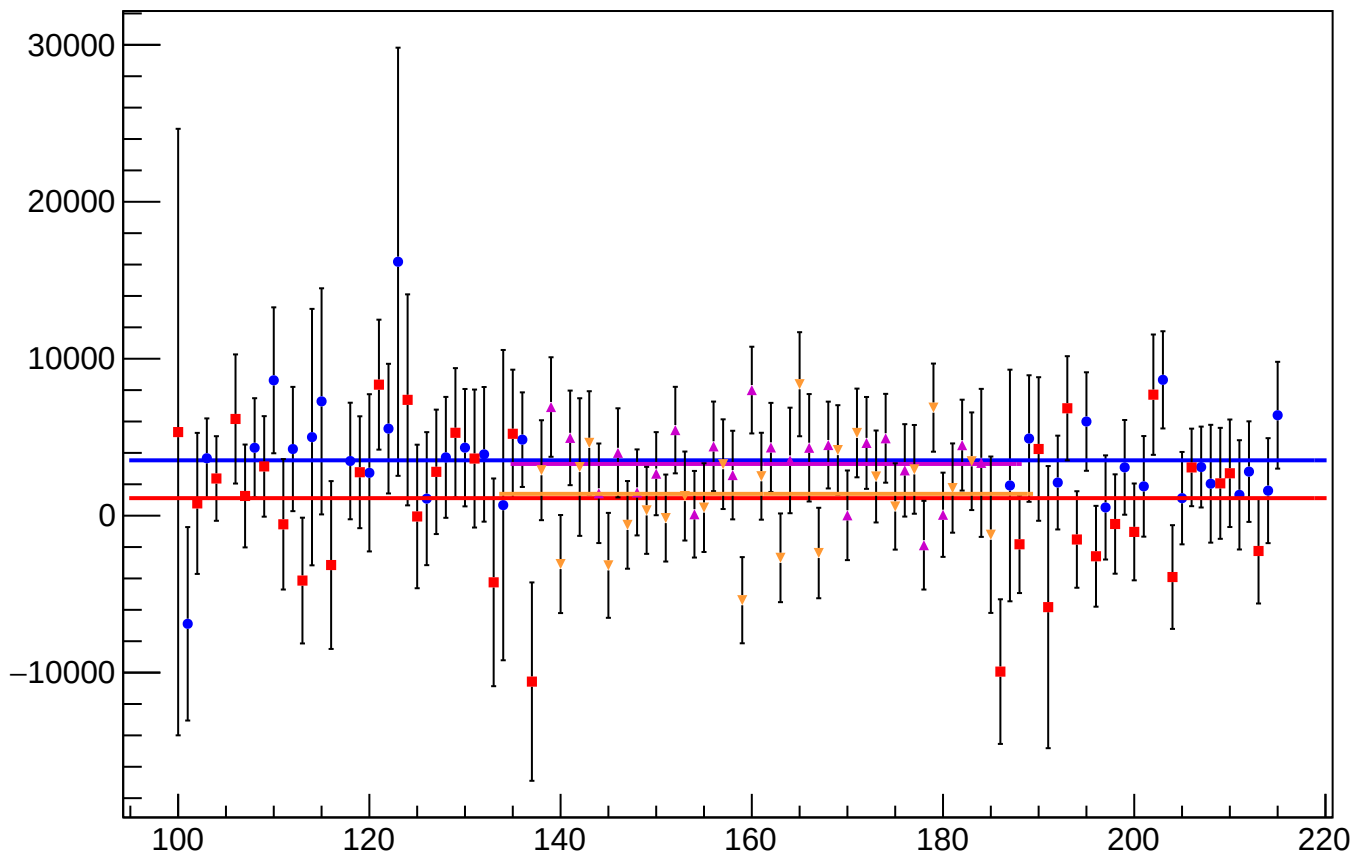
Right: 2932.851+/-0.365 χ^2/NDF : 3785692.2/65

In: 2987.242+/-0.361 χ^2/NDF :913704.7/54

Out: 2856.674+/-0.347 χ^2/NDF :2872114.7/58

All: 2919.374+/-0.250 χ^2/NDF : 3853882.0/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3526.507+/-650.954 χ^2/NDF : 13.5/31

Left Out: 1390.275+/-596.516 χ^2/NDF : 29.2/24

Right Out: 1116.649+/-649.458 χ^2/NDF : 36.2/33

Left In: 3295.367+/-609.991 χ^2/NDF : 14.9/22

Left: 2321.546+/-426.485 χ^2/NDF : 49.0/47

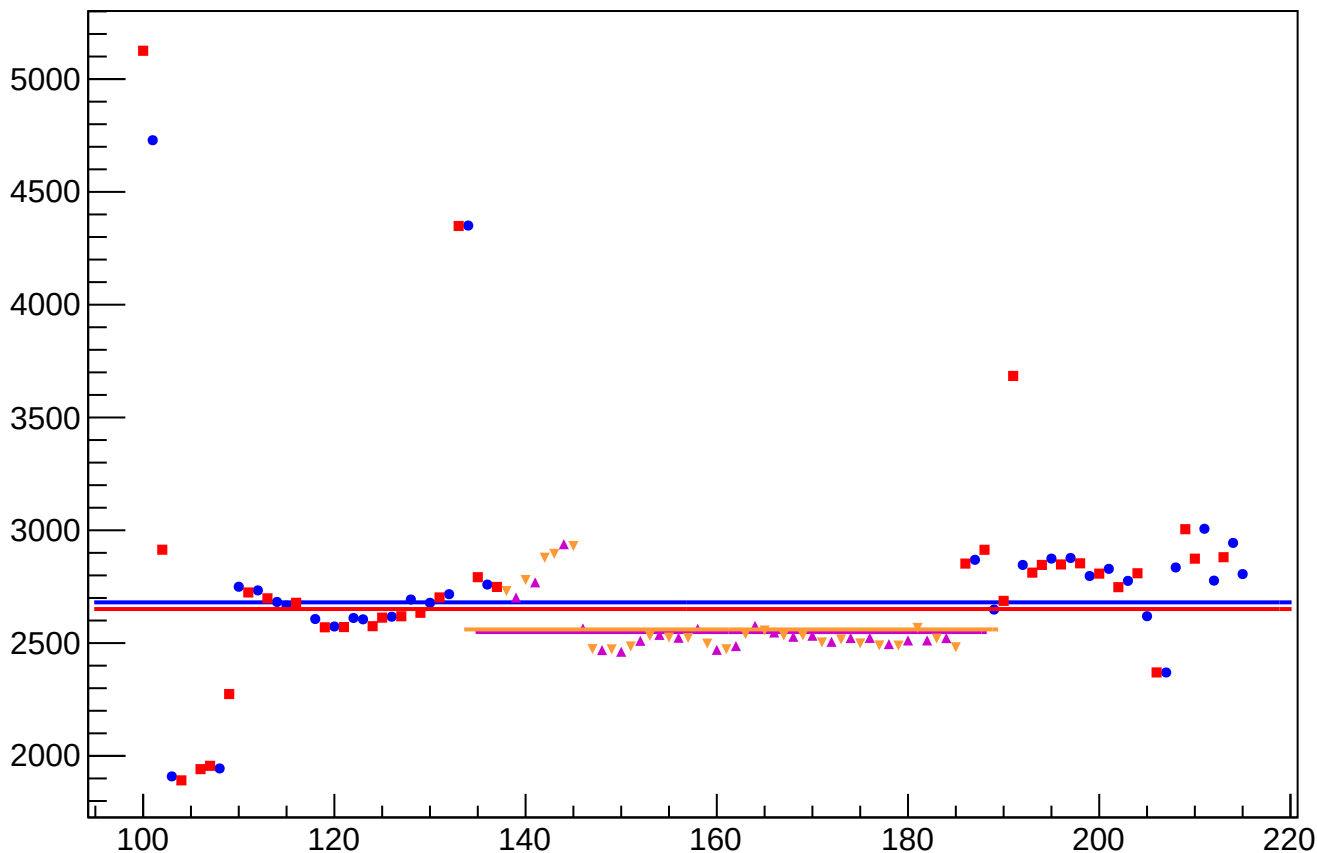
Right: 2318.807+/-459.764 χ^2/NDF : 56.5/65

In: 3403.436+/-445.106 χ^2/NDF : 28.4/54

Out: 1265.067+/-439.327 χ^2/NDF : 65.5/58

All: 2320.279+/-312.674 χ^2/NDF : 105.6/113

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2680.605 $\pm$ 0.460 χ^2 /NDF: 675956.9/31

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2650.943 $\pm$ 0.459 χ^2 /NDF: 661838.5/33

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

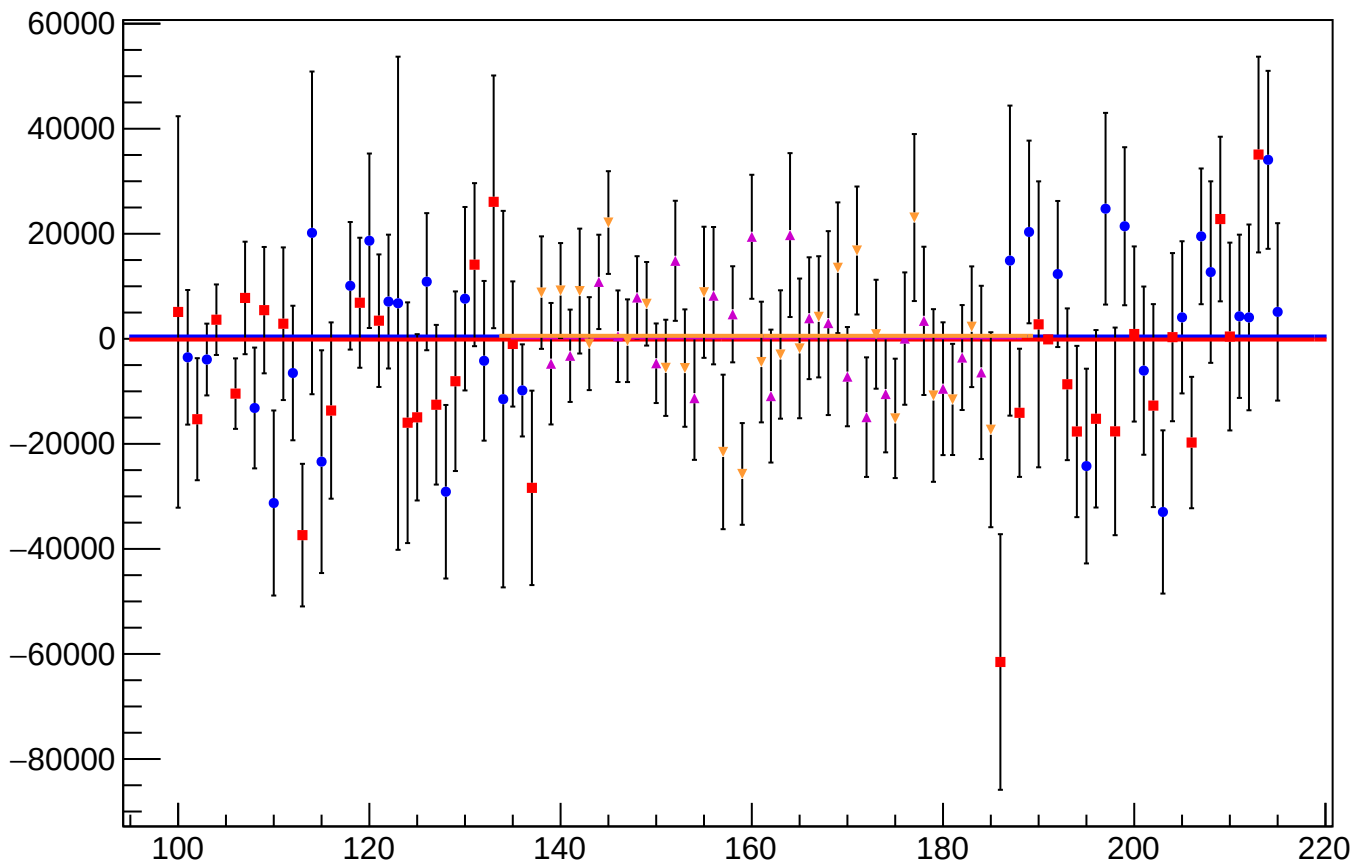
Right: 2665.740 $\pm$ 0.325 χ^2 /NDF: 1339876.6/65

In: 2610.462 $\pm$ 0.315 χ^2 /NDF: 774836.0/54

Out: 2601.902 $\pm$ 0.311 χ^2 /NDF: 769633.4/58

All: 2606.127 $\pm$ 0.221 χ^2 /NDF: 1544844.1/111

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 439.420+/-2564.693 χ^2/NDF : 34.3/31

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -138.293+/-194.905 χ^2/NDF : 39.8/33

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

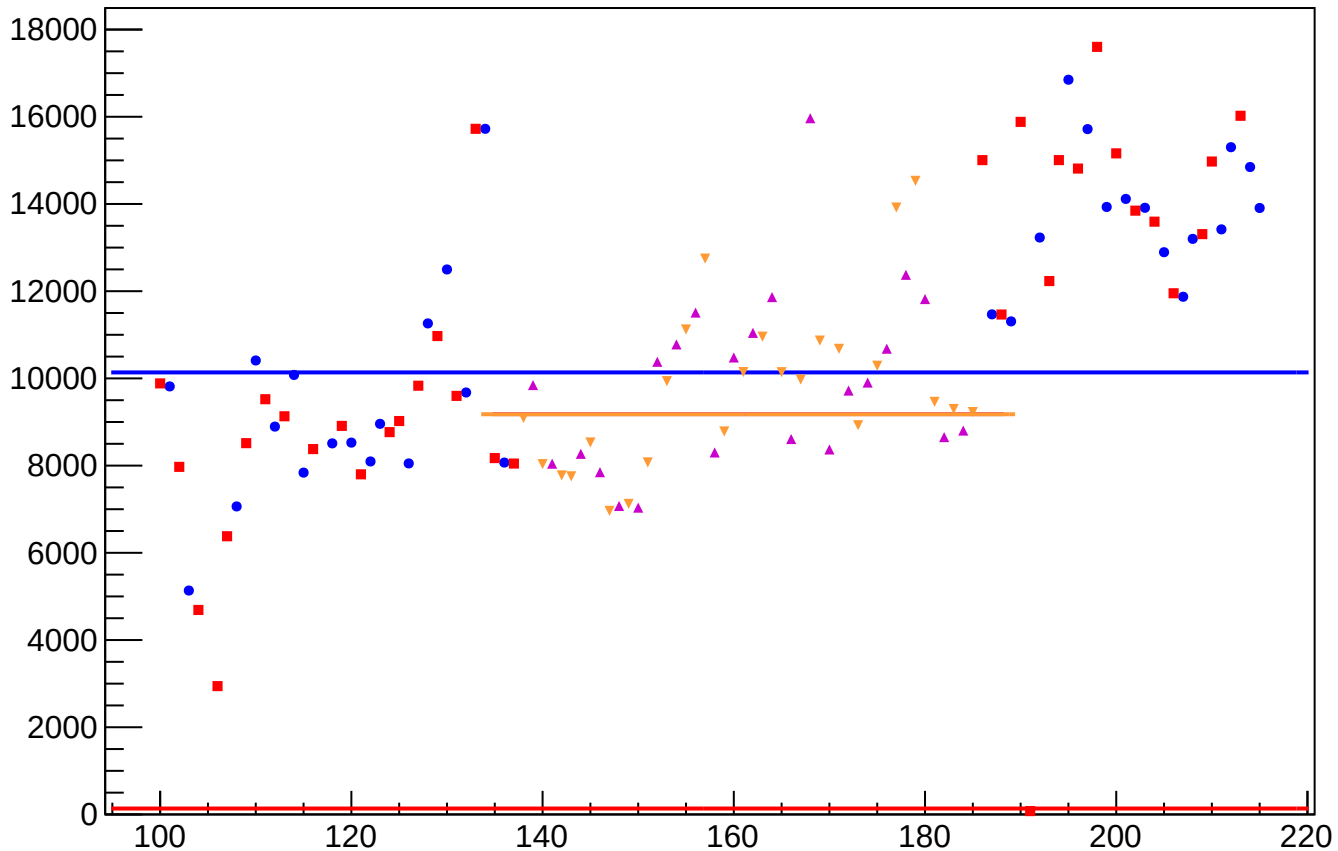
Right: -134.975+/-194.345 χ^2/NDF : 74.1/65

In: 346.317+/-1688.320 χ^2/NDF : 49.9/54

Out: -132.679+/-194.134 χ^2/NDF : 68.1/58

All: -126.428+/-192.863 χ^2/NDF : 118.1/113

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10137.297 $\pm$ 1.814

χ^2 /NDF: 3239671.6/31

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right Out: 136.036 $\pm$ 0.138

χ^2 /NDF: 32825558.1/33

Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Right: 193.465 $\pm$ 0.137

χ^2 /NDF: 66304259.7/65

In: 9595.555 $\pm$ 1.194

χ^2 /NDF: 4633622.4/54

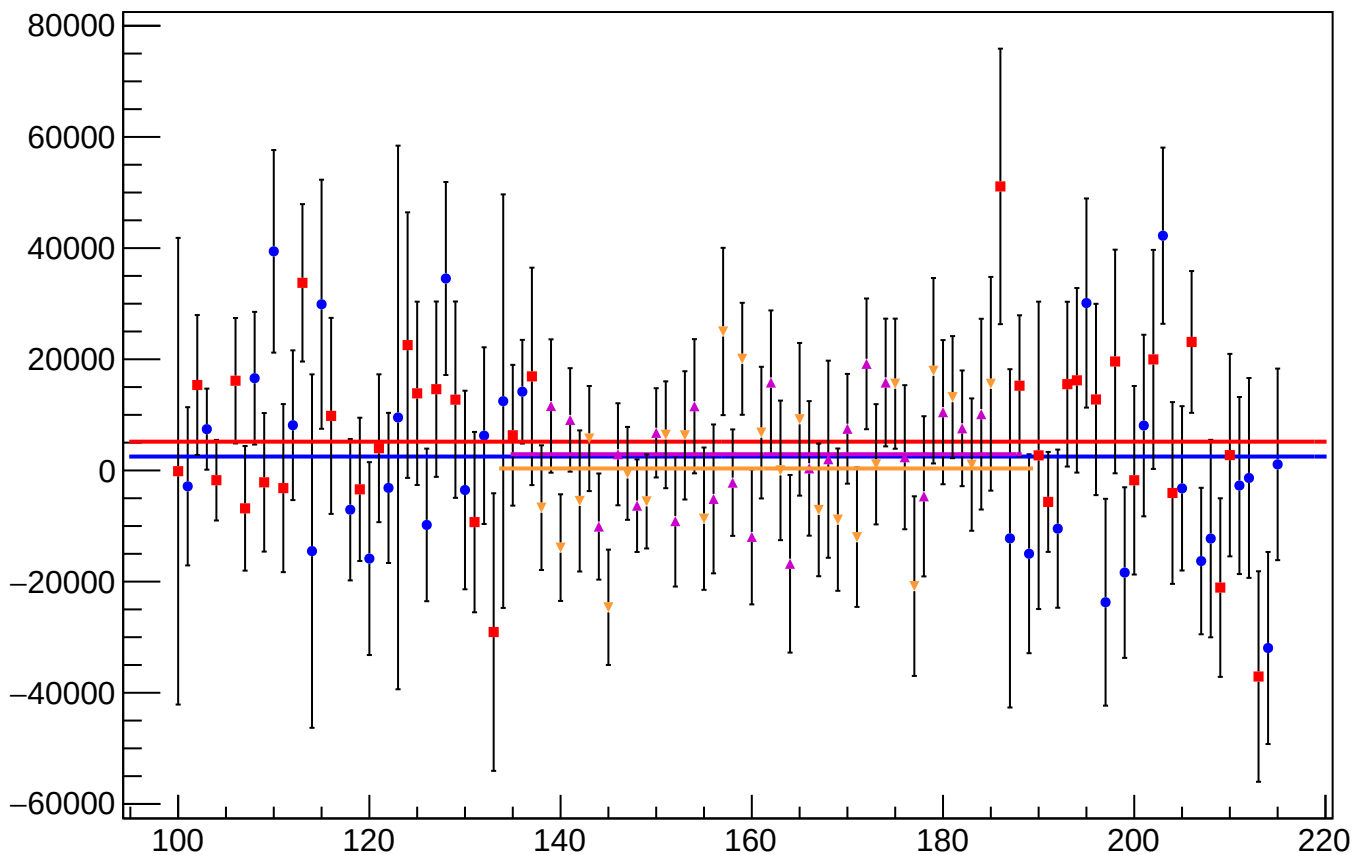
Out: 207.452 $\pm$ 0.137

χ^2 /NDF: 67997672.8/58

All: 329.961 $\pm$ 0.136

χ^2 /NDF: 133665230.5/131

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2499.587 $\pm$ 2675.483 χ^2 /NDF: 37.4/31

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

Right Out: 5175.602 $\pm$ 2496.242 χ^2 /NDF: 31.2/33

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

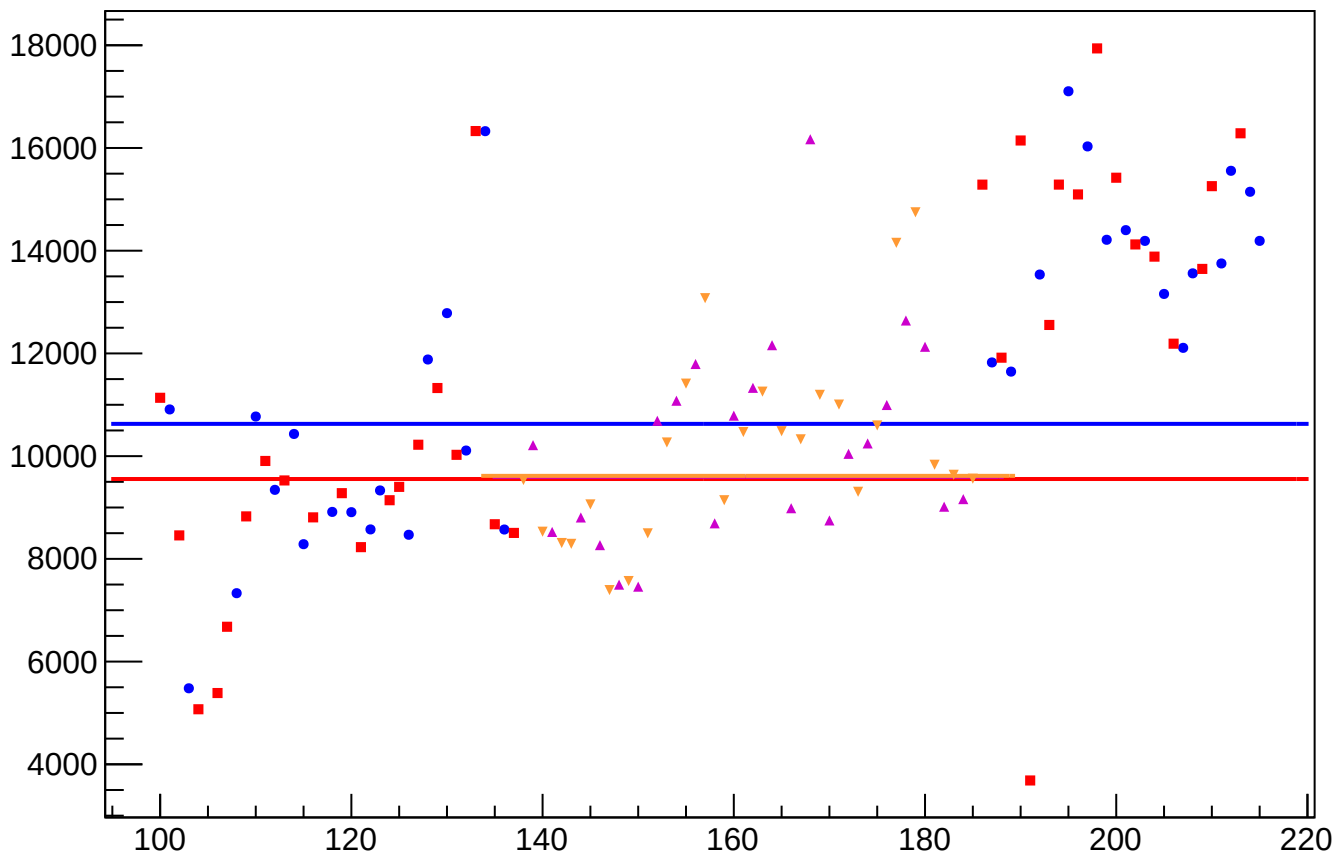
Right: 3930.228 $\pm$ 1825.189 χ^2 /NDF: 69.1/65

In: 2736.993 $\pm$ 1760.715 χ^2 /NDF: 52.3/54

Out: 2549.652 $\pm$ 1684.147 χ^2 /NDF: 59.4/58

All: 2639.161 $\pm$ 1217.040 χ^2 /NDF: 111.8/113

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10628.429+/-1.892 χ^2/NDF : 2932826.7/31

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

Right Out: 9554.714+/-1.765 χ^2/NDF : 4576371.8/33

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

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

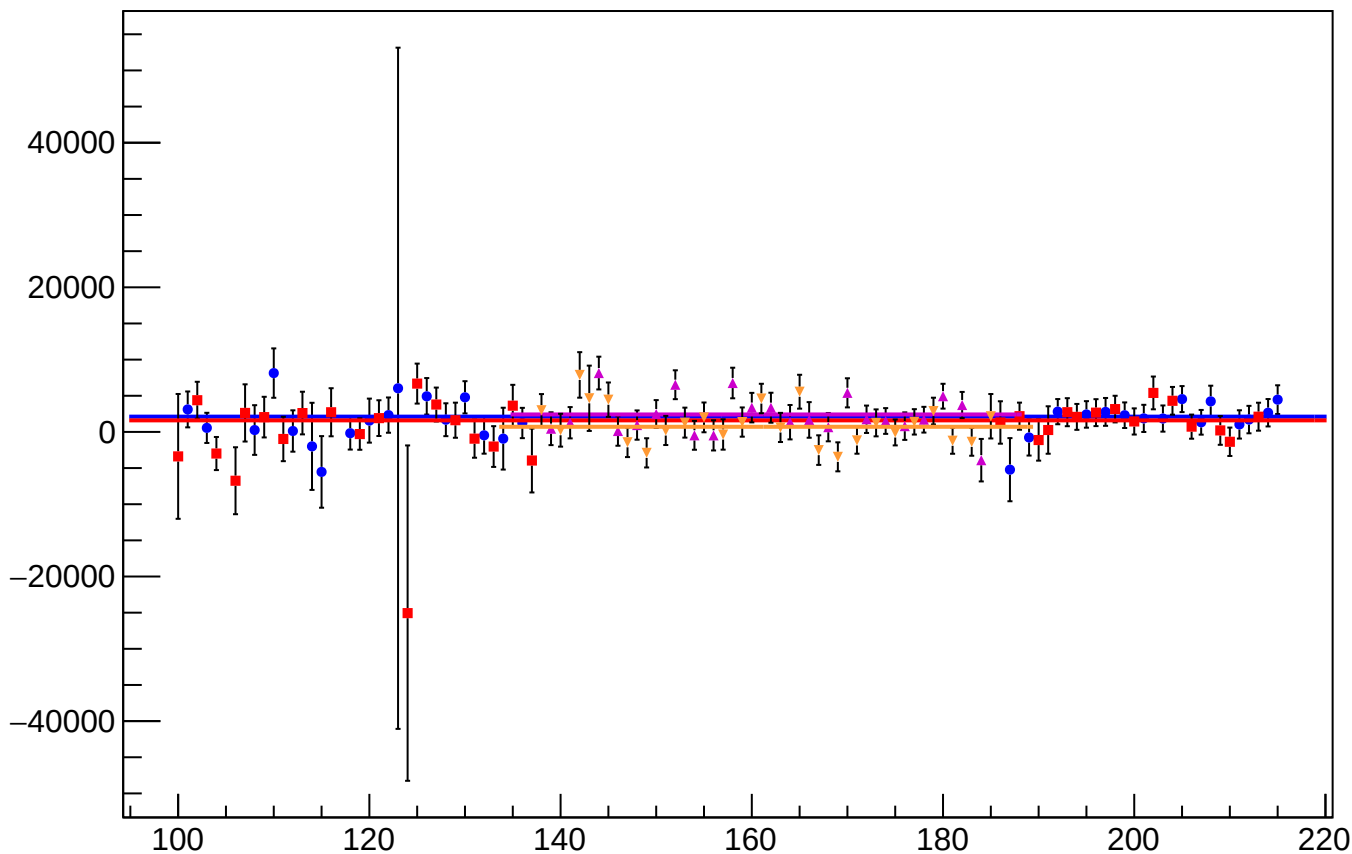
Right: 10054.387+/-1.291 χ^2/NDF : 7681408.3/65

In: 10044.565+/-1.245 χ^2/NDF : 4183006.9/54

Out: 9588.236+/-1.191 χ^2/NDF : 5588699.5/58

All: 9806.260+/-0.861 χ^2/NDF : 9841862.0/111

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2114.119+/-402.803 χ^2/NDF : 22.3/31

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

Right Out: 1597.301+/-411.912 χ^2/NDF : 31.4/33

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

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

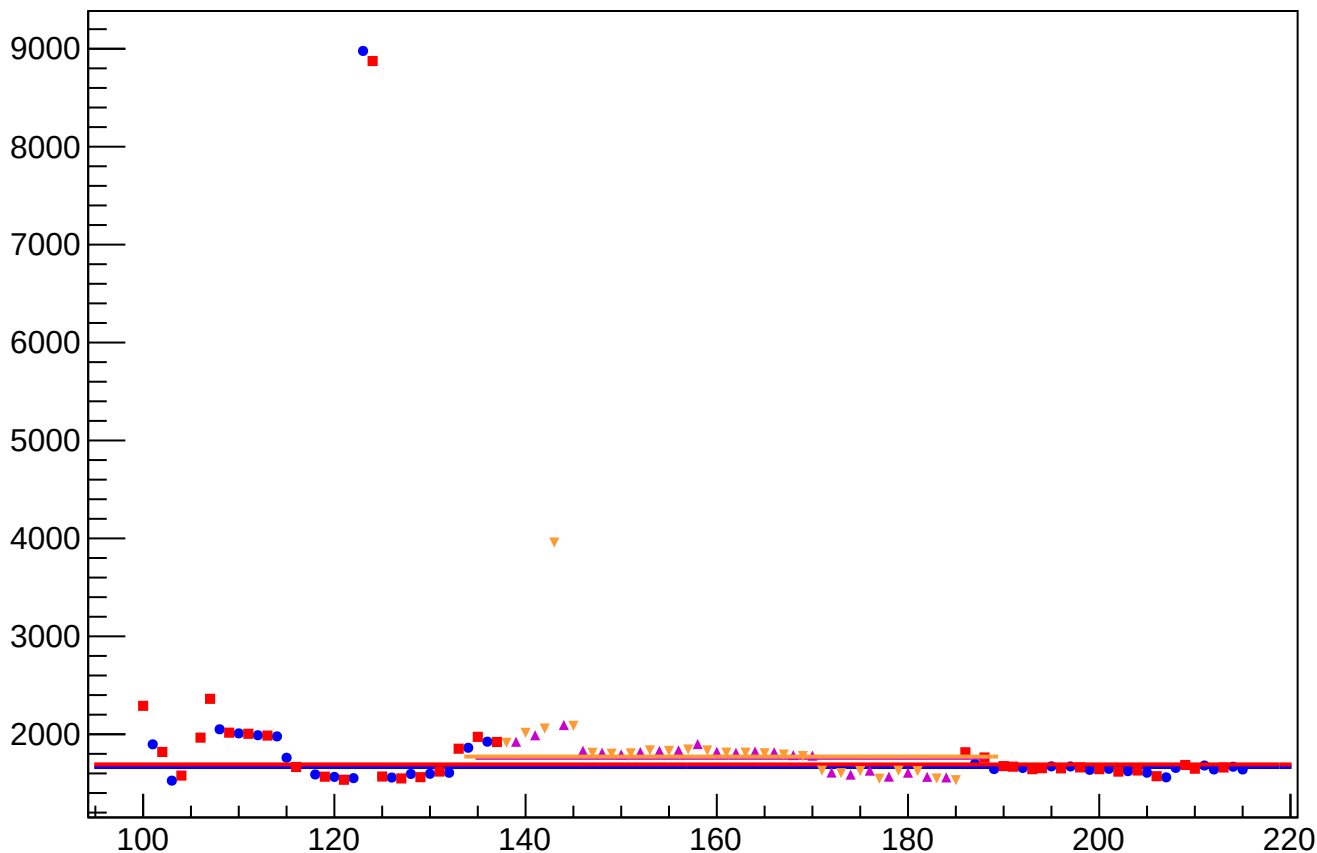
Right: 1861.488+/-287.991 χ^2/NDF : 54.4/65

In: 2256.919+/-291.858 χ^2/NDF : 56.5/54

Out: 1159.361+/-293.179 χ^2/NDF : 68.5/58

All: 1710.618+/-206.840 χ^2/NDF : 132.0/113

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1665.725 $\pm$ 0.285 χ^2 /NDF: 216555.7/31

Left Out: 1772.046 $\pm$ 0.295 χ^2 /NDF: 702472.4/24

Right Out: 1691.877 $\pm$ 0.291 χ^2 /NDF: 438150.0/33

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

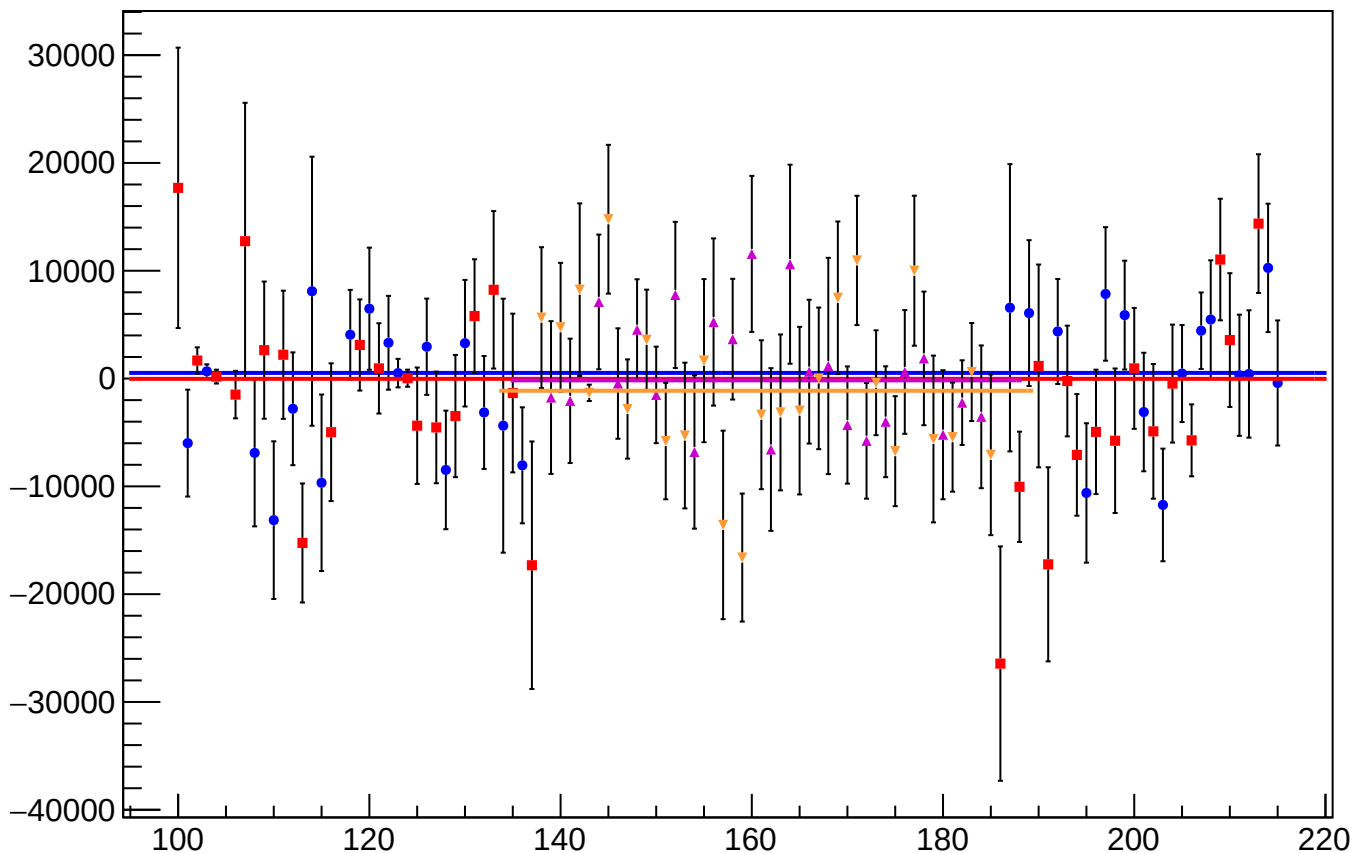
Right: 1678.530 $\pm$ 0.203 χ^2 /NDF: 658833.9/65

In: 1710.315 $\pm$ 0.206 χ^2 /NDF: 483045.8/54

Out: 1731.365 $\pm$ 0.207 χ^2 /NDF: 1178064.8/58

All: 1720.802 $\pm$ 0.146 χ^2 /NDF: 1666293.5/111

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 523.830 $\pm$ 504.448 χ^2 /NDF: 35.1/31

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: -26.592 $\pm$ 416.258 χ^2 /NDF: 50.2/33

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

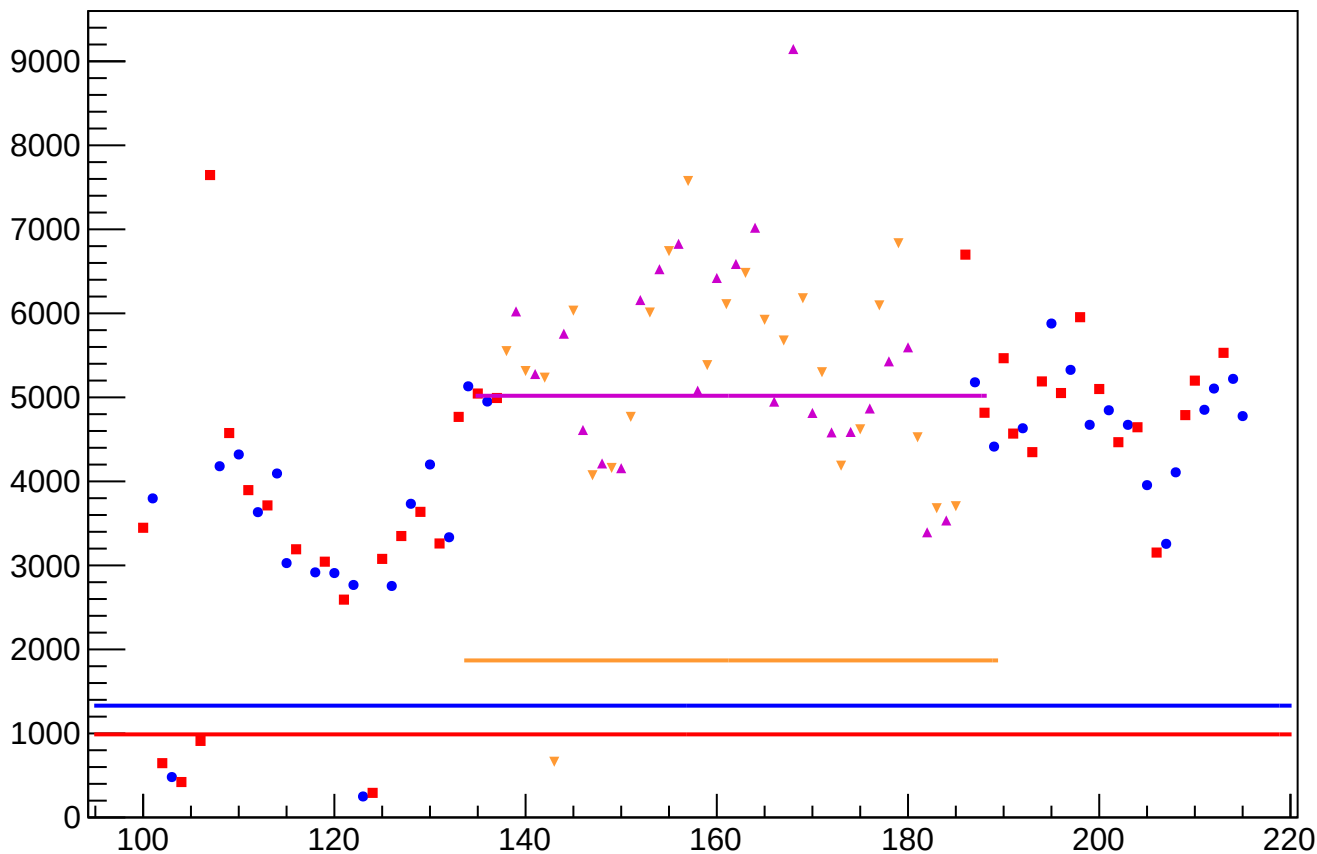
Right: 196.376 $\pm$ 321.063 χ^2 /NDF: 86.0/65

In: 424.527 $\pm$ 466.853 χ^2 /NDF:49.5/54

Out: -349.131 $\pm$ 350.161 χ^2 /NDF:83.8/58

All: -70.593 $\pm$ 280.123 χ^2 /NDF: 135.0/113

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1330.692 $\pm$ 0.357

χ^2/NDF : 20437050.6/31

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: 1127.343 $\pm$ 0.227

χ^2/NDF : 43123022.7/65

Right Out: 988.880 $\pm$ 0.294

χ^2/NDF : 22139677.9/33

In: 1859.978 $\pm$ 0.330

χ^2/NDF : 37349695.3/54

Out: 1246.190 $\pm$ 0.248

χ^2/NDF : 44606025.9/58

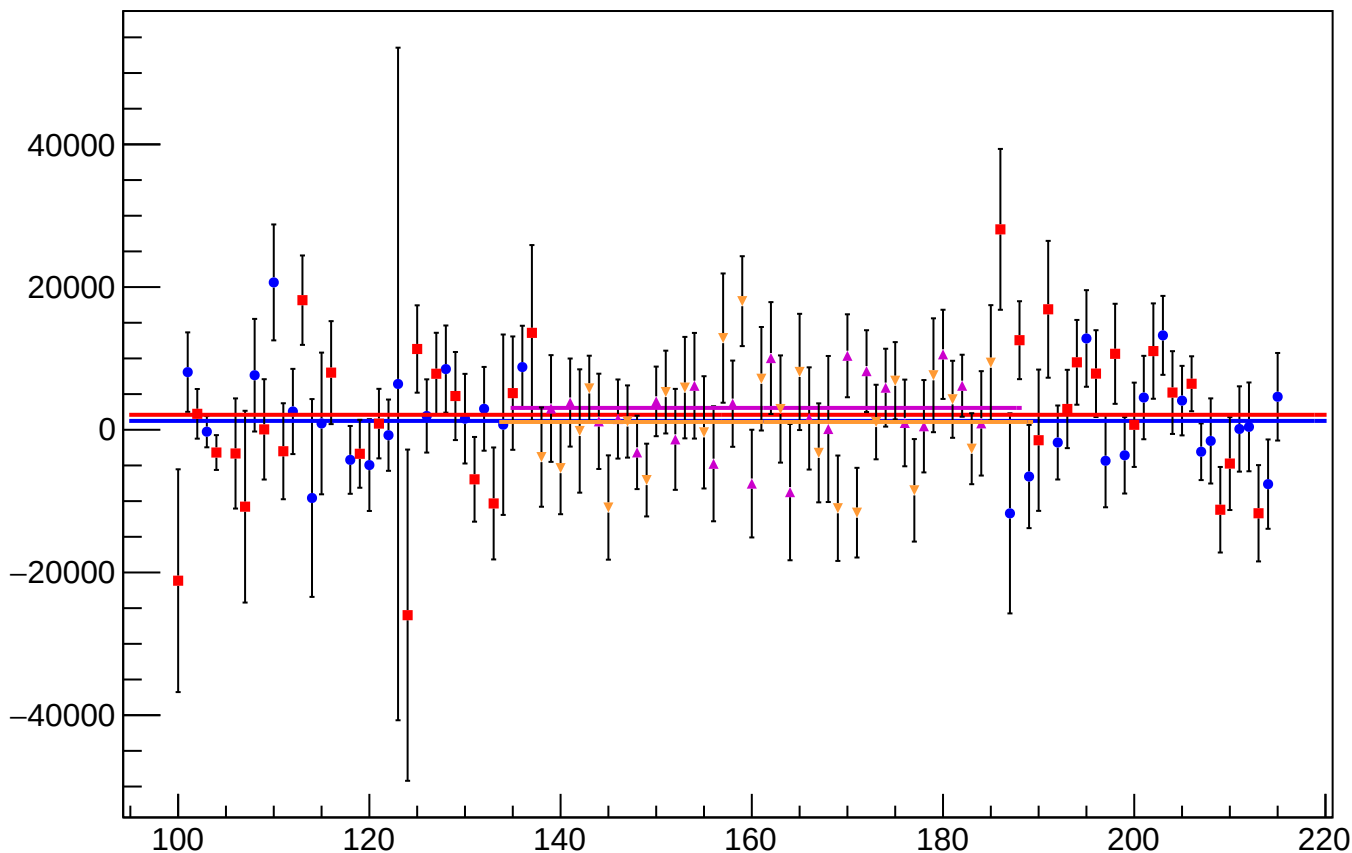
Left In: 5019.114 $\pm$ 0.871

χ^2/NDF : 1569031.9/22

All: 1467.170 $\pm$ 0.198

χ^2/NDF : 84168139.3/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1244.126+/-988.798 χ^2/NDF : 30.6/31

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 2100.107+/-1002.365 χ^2/NDF : 57.4/33

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

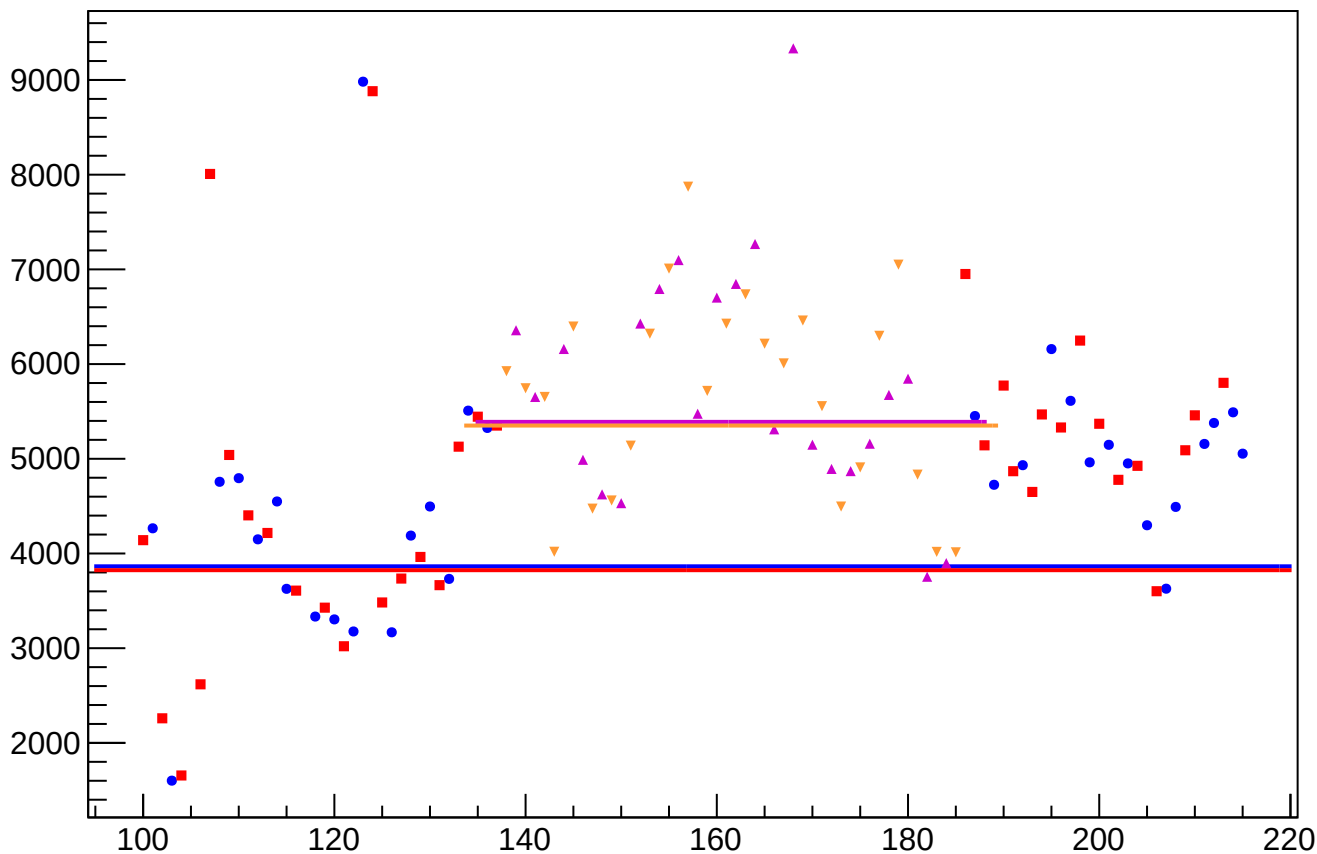
Right: 1666.284+/-703.934 χ^2/NDF : 88.4/65

In: 1899.703+/-790.990 χ^2/NDF : 44.4/54

Out: 1715.215+/-787.558 χ^2/NDF : 89.8/58

All: 1807.058+/-558.097 χ^2/NDF : 134.2/113

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3864.552 $\pm$ 0.699 χ^2 /NDF: 3774968.8/31

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF: 1241497.9/24

Right Out: 3823.701 $\pm$ 0.702 χ^2 /NDF: 4279717.5/33

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF: 1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

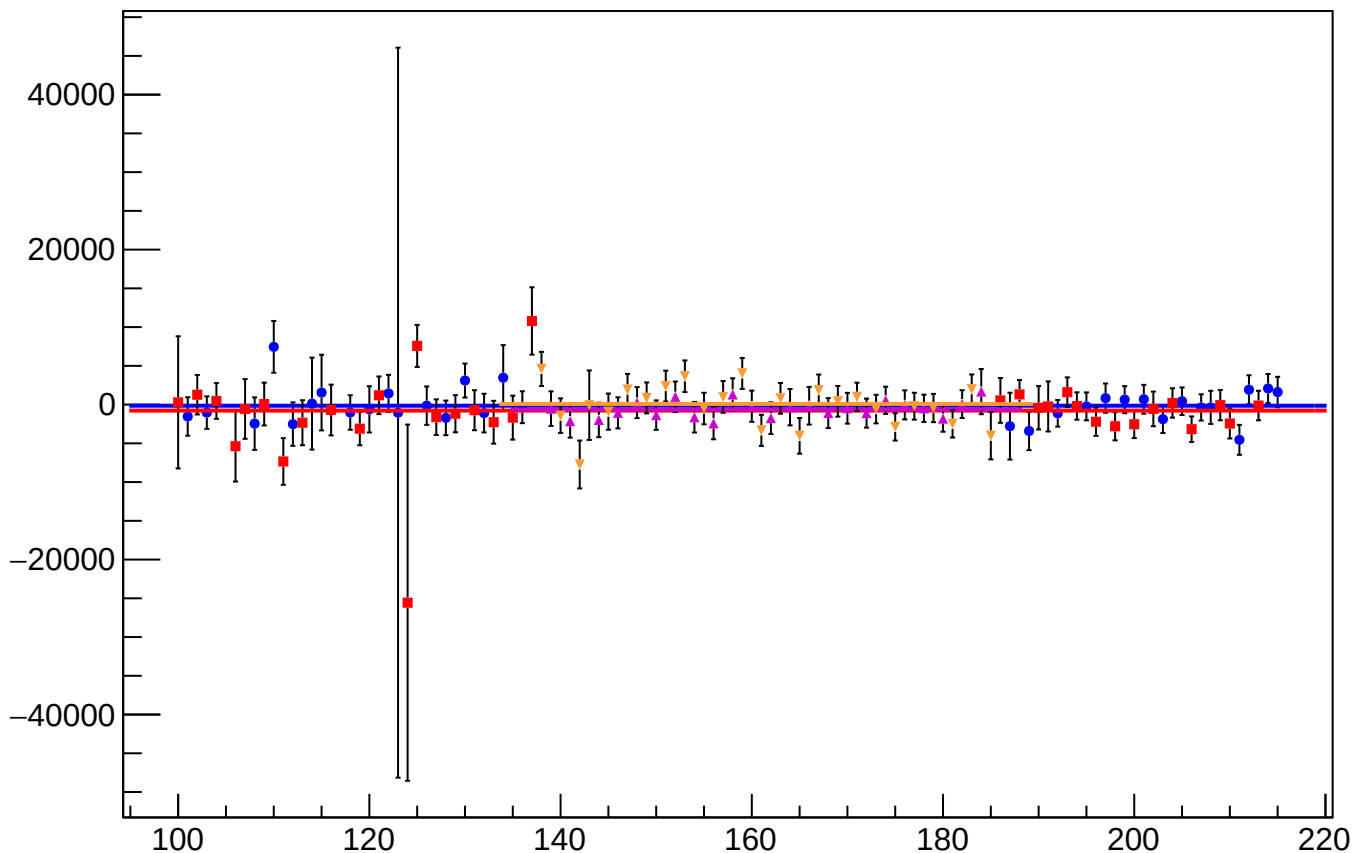
Right: 3844.223 $\pm$ 0.496 χ^2 /NDF: 8056385.2/65

In: 4413.731 $\pm$ 0.559 χ^2 /NDF: 6798198.1/54

Out: 4401.671 $\pm$ 0.554 χ^2 /NDF: 7309727.4/58

All: 4407.642 $\pm$ 0.394 χ^2 /NDF: 14108160.3/112

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -143.929 ± 397.210 χ^2/NDF : 24.0/31

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -772.357 ± 405.923 χ^2/NDF : 36.6/33

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

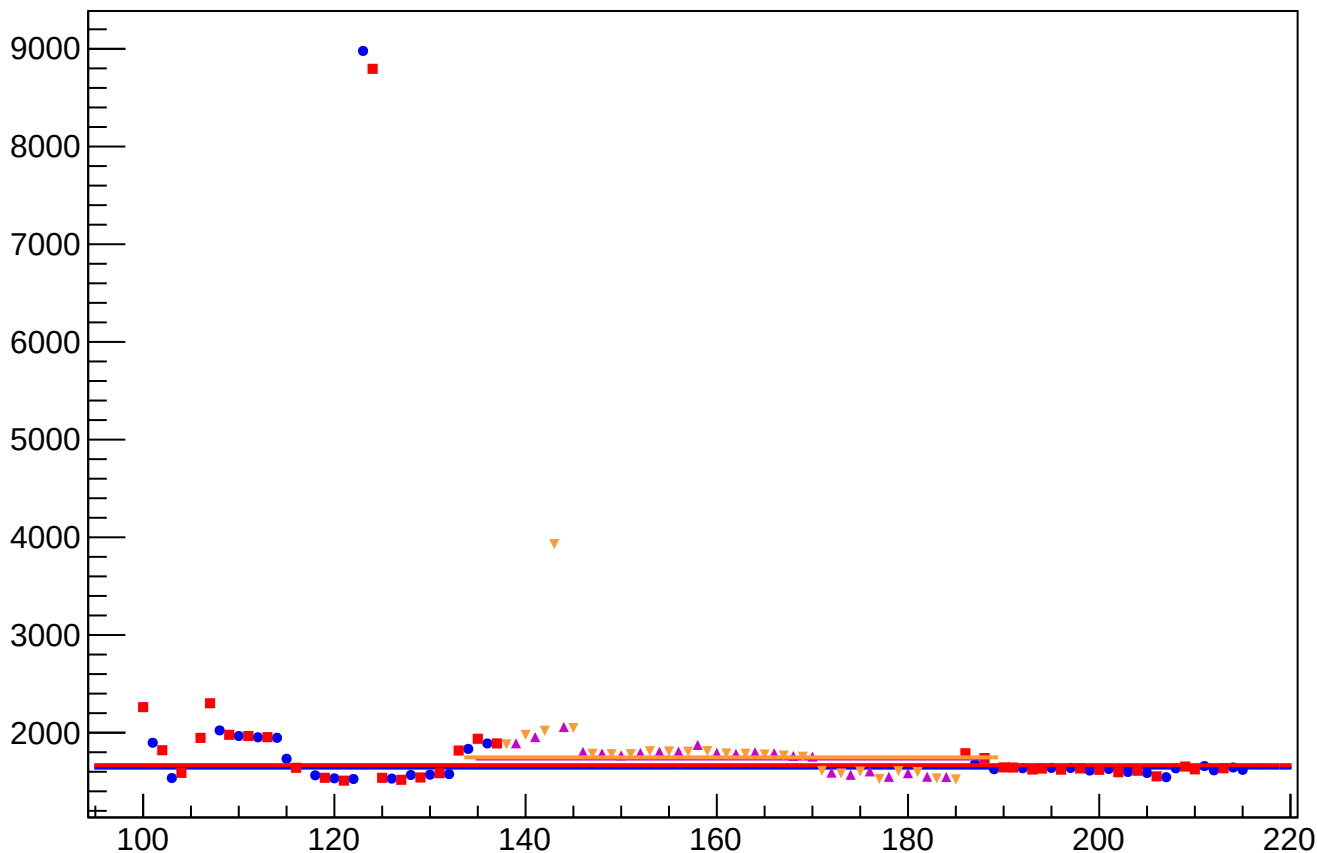
Right: -451.326 ± 283.900 χ^2/NDF : 61.8/65

In: -379.643 ± 287.823 χ^2/NDF : 30.9/54

Out: -348.961 ± 288.993 χ^2/NDF : 74.9/58

All: -364.364 ± 203.934 χ^2/NDF : 105.8/113

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1642.654+/-0.281 χ^2/NDF : 213844.4/31

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1667.512+/-0.287 χ^2/NDF : 433910.5/33

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

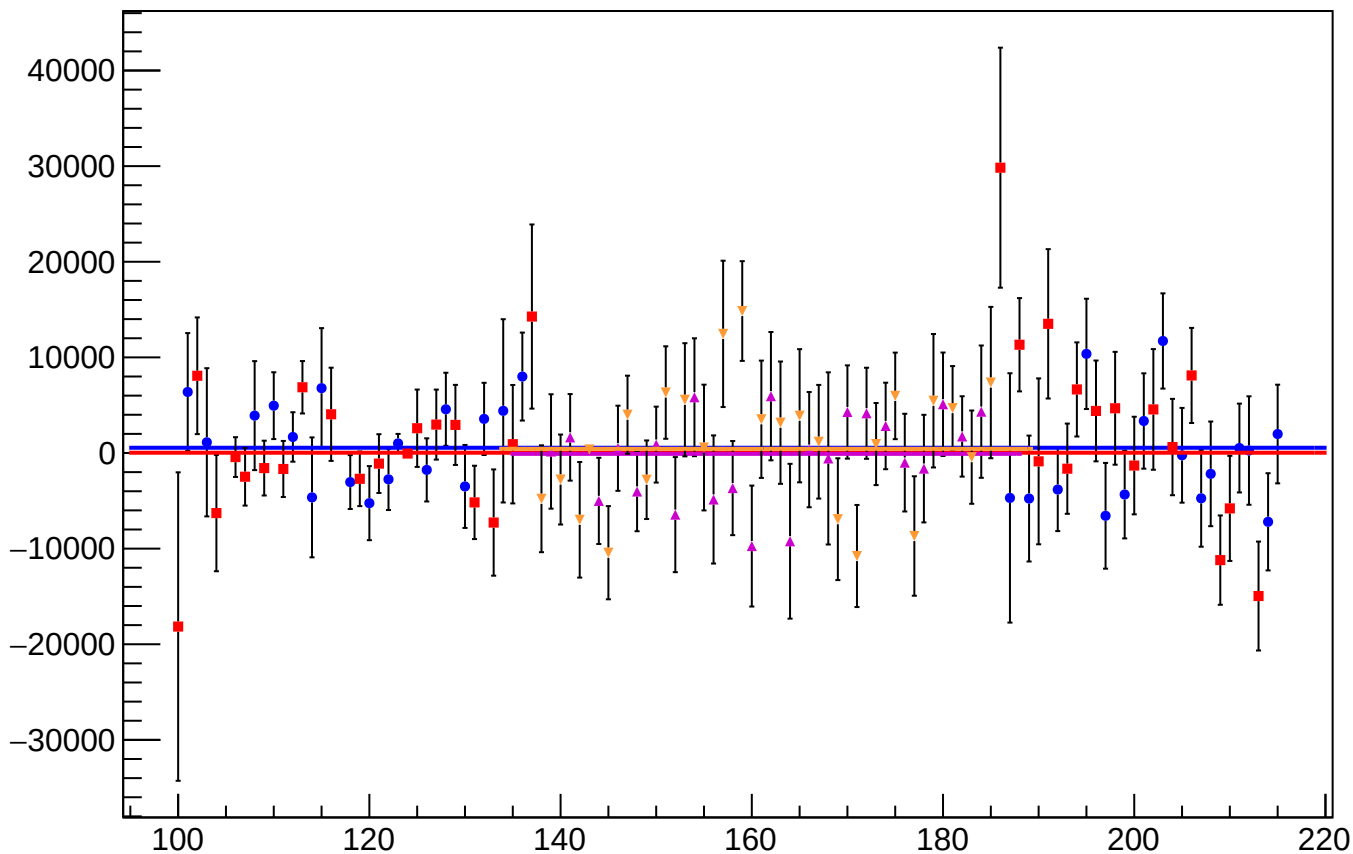
Right: 1654.834+/-0.201 χ^2/NDF : 651592.6/65

In: 1686.769+/-0.204 χ^2/NDF : 472554.0/54

Out: 1706.803+/-0.204 χ^2/NDF : 1170289.4/58

All: 1696.754+/-0.144 χ^2/NDF : 1647672.6/11

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 549.657 $\pm$ 627.324 χ^2 /NDF: 32.3/31

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: 29.628 $\pm$ 346.794 χ^2 /NDF: 55.1/33

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

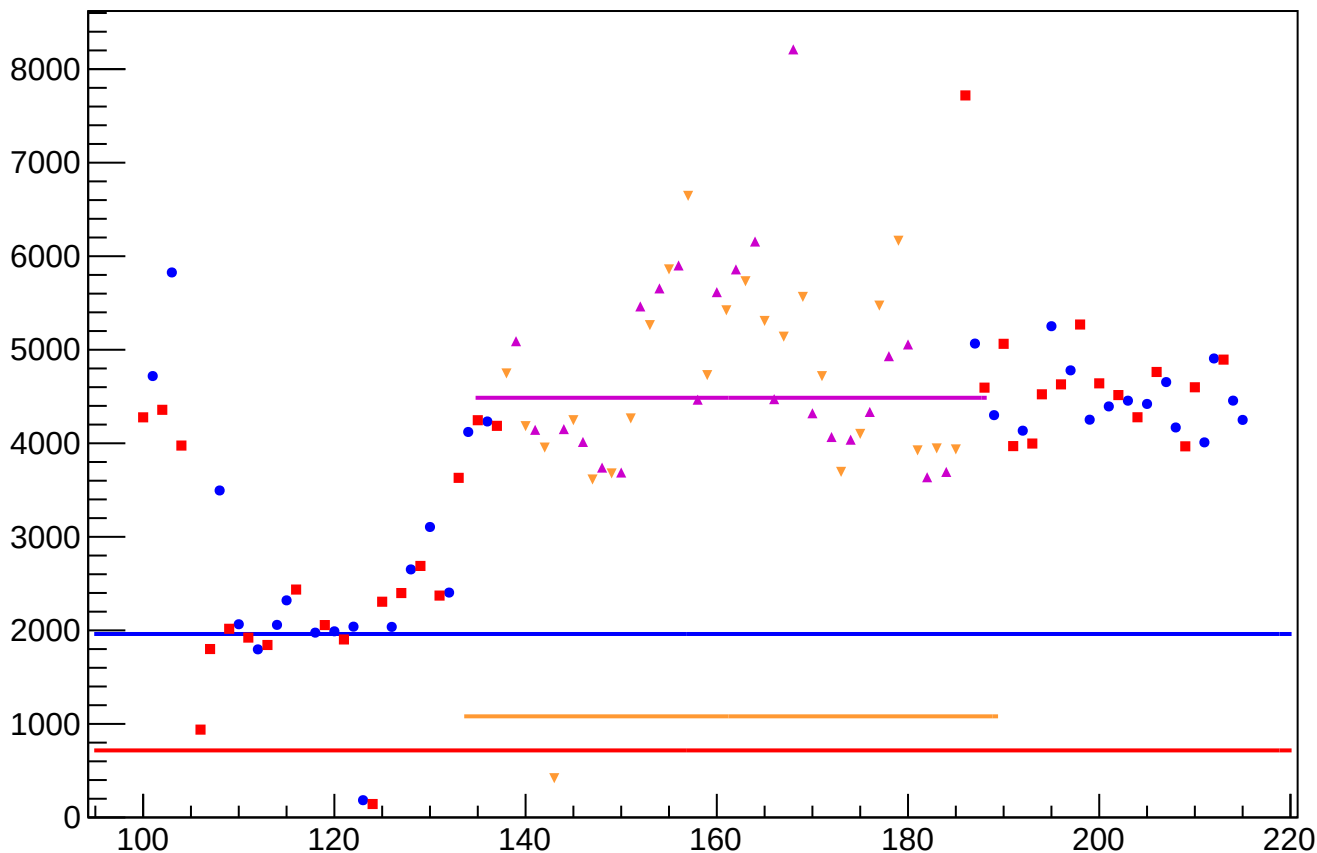
Right: 151.352 $\pm$ 303.505 χ^2 /NDF: 88.0/65

In: 391.926 $\pm$ 544.305 χ^2 /NDF:46.0/54

Out: 187.563 $\pm$ 272.445 χ^2 /NDF:89.5/58

All: 228.506 $\pm$ 243.630 χ^2 /NDF: 135.7/113

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1961.371+/-0.444

χ^2/NDF : 14987518.5/31

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 716.720+/-0.245

χ^2/NDF : 25457778.5/33

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

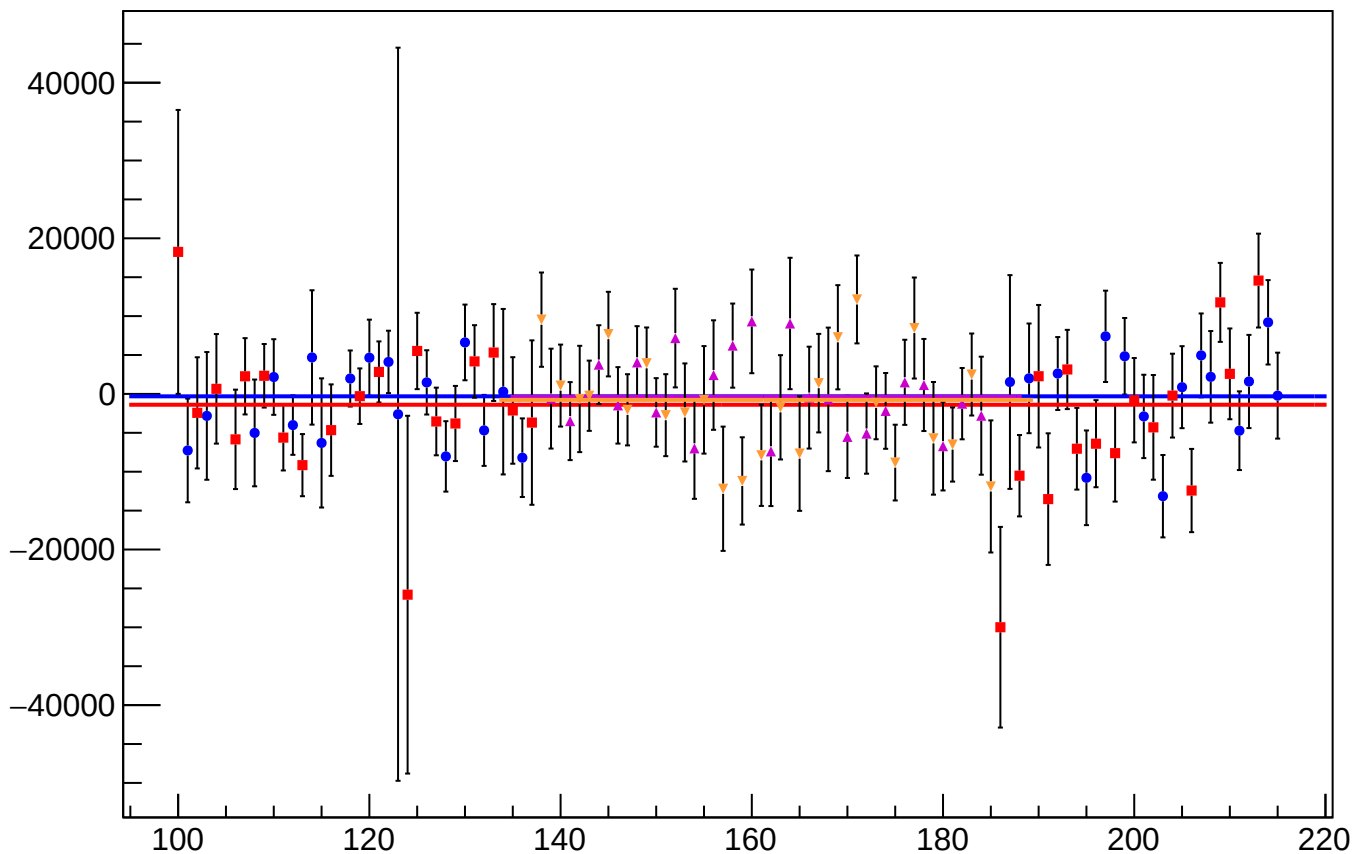
Right: 1008.058+/-0.215 χ^2/NDF : 46475472.1/65

In: 2585.508+/-0.385 χ^2/NDF : 24178926.4/54

Out: 856.174+/-0.193 χ^2/NDF : 50758828.6/58

All: 1202.636+/-0.172 χ^2/NDF : 91081584.4/100

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -309.961 ± 955.108 $\chi^2/\text{NDF}: 32.4/31$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -1392.943 ± 943.463 $\chi^2/\text{NDF}: 48.3/33$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

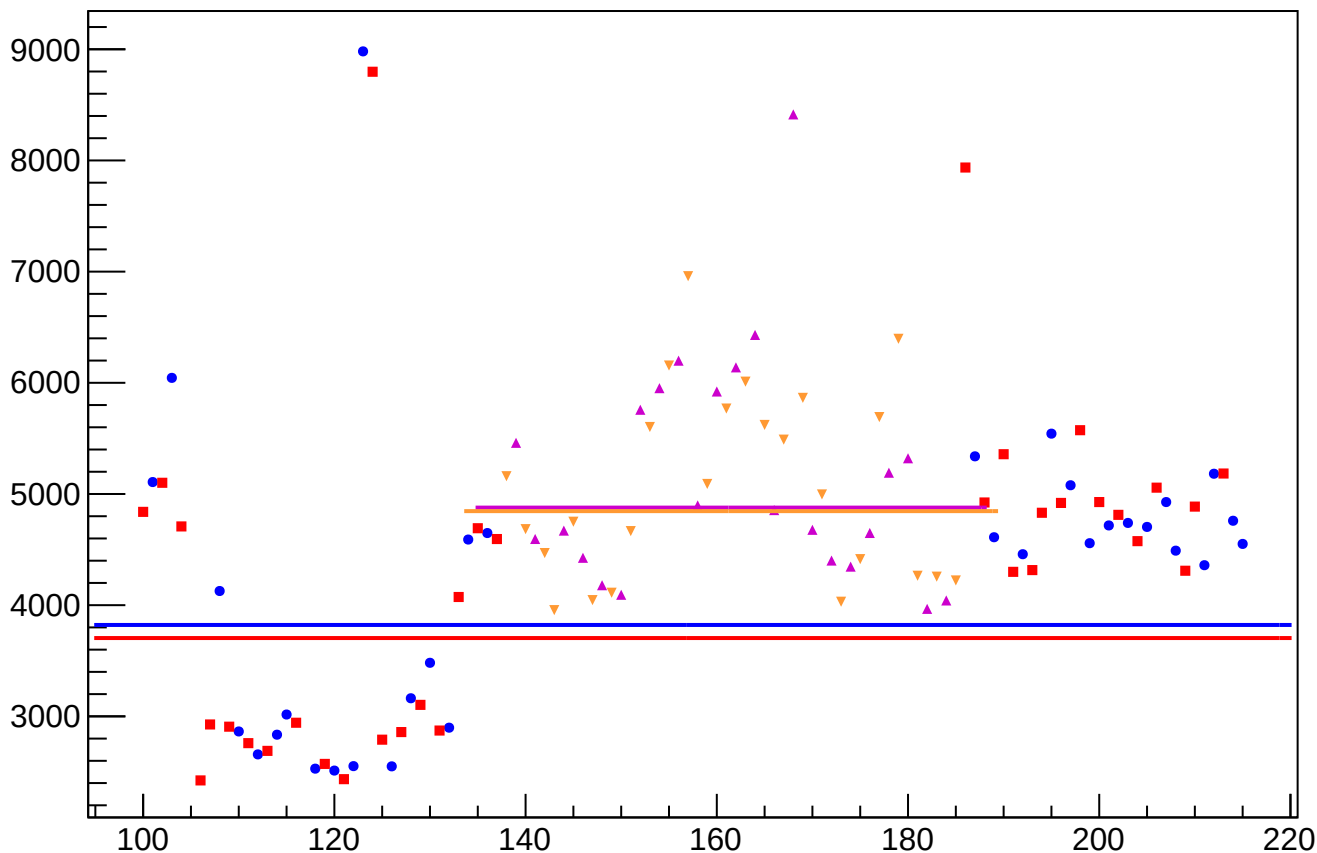
Right: -858.094 ± 671.208 $\chi^2/\text{NDF}: 81.4/65$

In: -341.023 ± 743.954 $\chi^2/\text{NDF}: 46.6/54$

Out: -1140.041 ± 728.734 $\chi^2/\text{NDF}: 78.4/58$

All: -748.789 ± 520.590 $\chi^2/\text{NDF}: 125.6/113$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3822.038 $\pm$ 0.675 χ^2/NDF : 2430556.1/31

Left Out: 4845.779 $\pm$ 0.811 χ^2/NDF : 909173.9/24

Right Out: 3704.298 $\pm$ 0.662 χ^2/NDF : 2826265.1/33

Left In: 4877.456 $\pm$ 0.839 χ^2/NDF : 958623.2/22

Left: 4861.089 $\pm$ 0.583 χ^2/NDF : 1868533.9/47

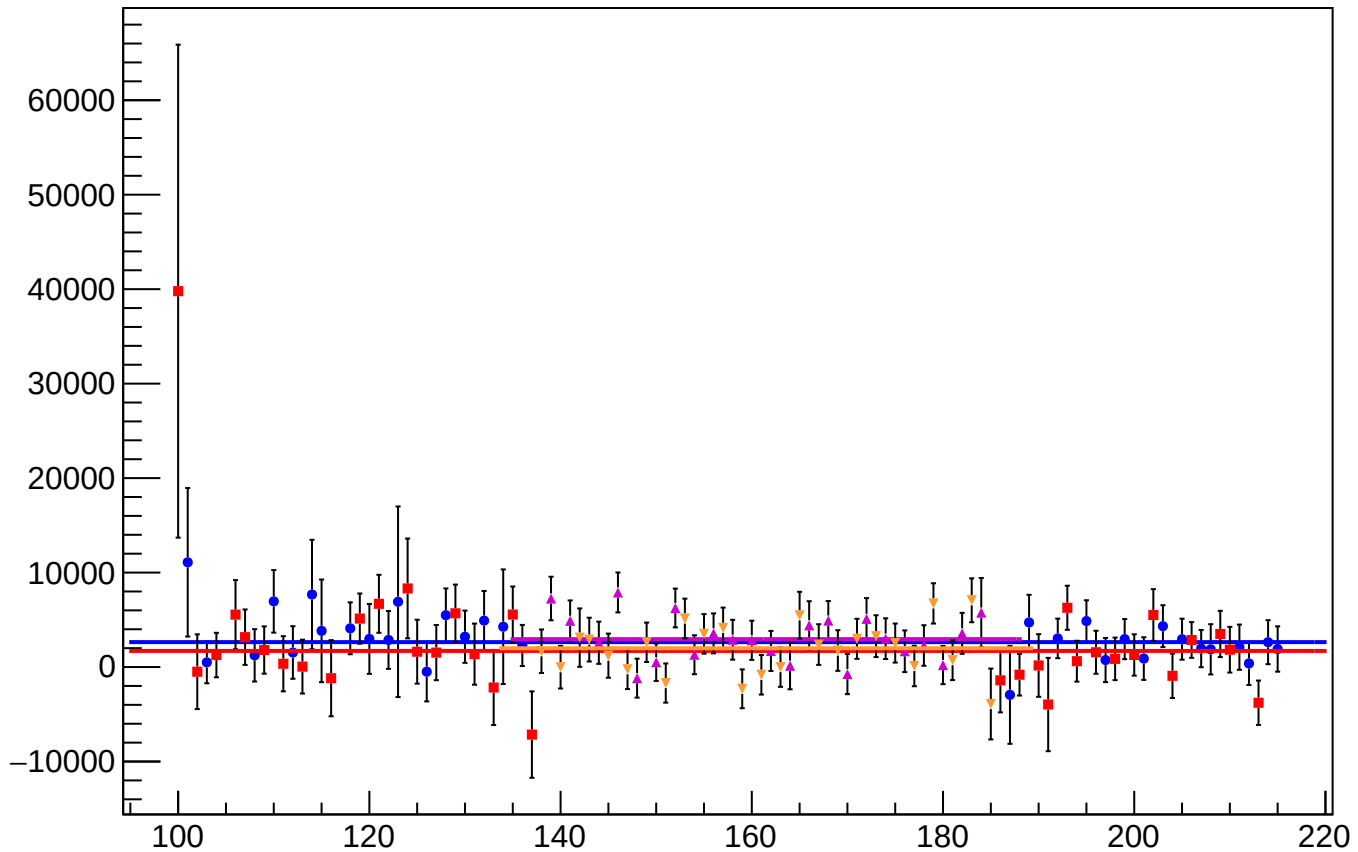
Right: 3761.981 $\pm$ 0.473 χ^2/NDF : 5272324.3/65

In: 4237.113 $\pm$ 0.526 χ^2/NDF : 4349636.4/54

Out: 4160.429 $\pm$ 0.513 χ^2/NDF : 4923948.3/58

All: 4197.797 $\pm$ 0.367 χ^2/NDF : 9284479.0/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2639.474+/-477.669 χ^2/NDF : 14.1/31

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1708.868+/-479.557 χ^2/NDF : 36.4/33

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

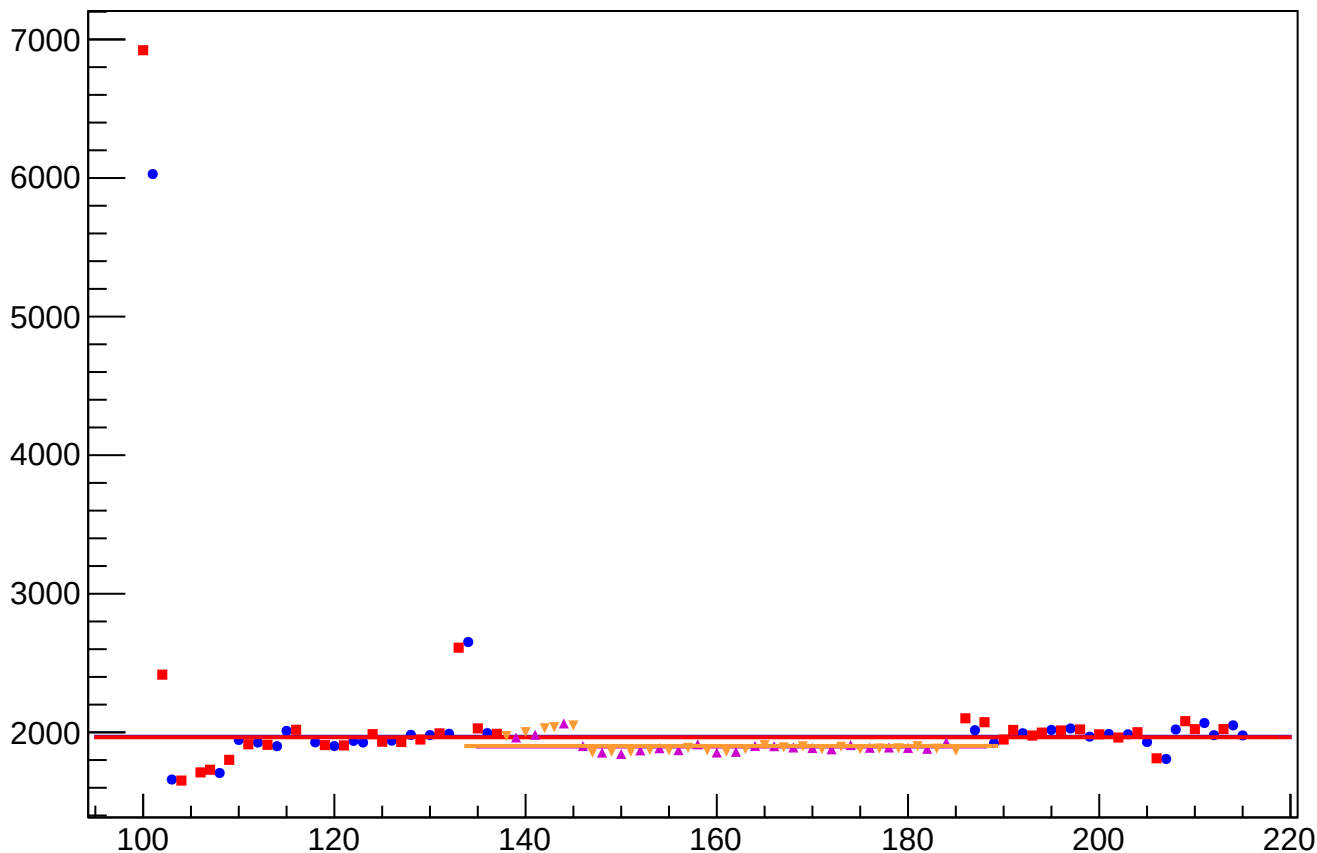
Right: 2176.006+/-338.429 χ^2/NDF : 52.3/65

In: 2805.530+/-329.286 χ^2/NDF : 42.7/54

Out: 1858.053+/-325.481 χ^2/NDF : 69.0/58

All: 2326.286+/-231.483 χ^2/NDF : 115.9/113

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.887 $\pm$ 0.338 χ^2 /NDF: 642465.6/31

Left Out: 1901.884 $\pm$ 0.313 χ^2 /NDF: 30446.9/24

Right Out: 1964.394 $\pm$ 0.339 χ^2 /NDF: 255016.2/33

Left In: 1897.456 $\pm$ 0.321 χ^2 /NDF: 21180.1/22

Left: 1899.726 $\pm$ 0.224 χ^2 /NDF: 51724.3/47

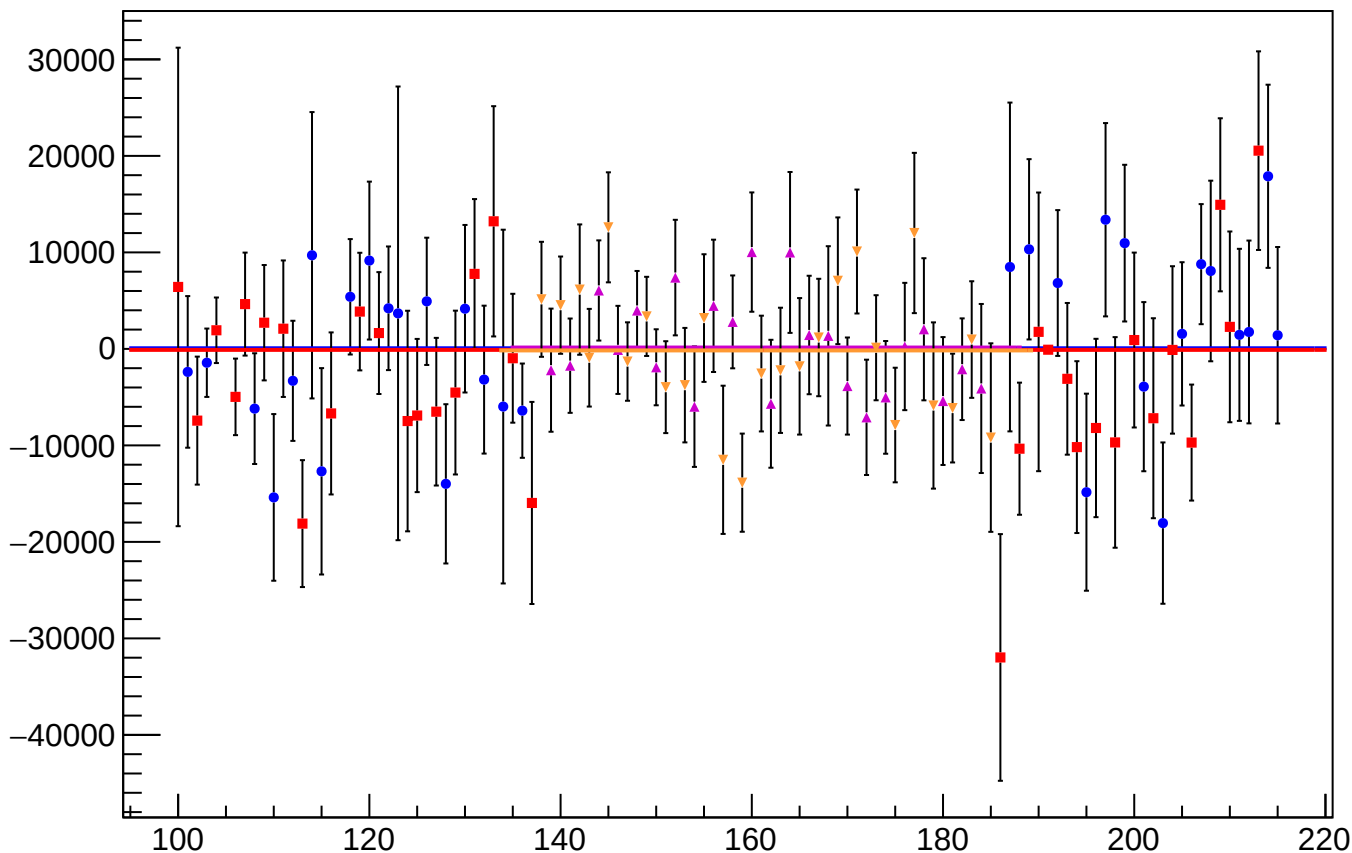
Right: 1966.146 $\pm$ 0.239 χ^2 /NDF: 897535.0/65

In: 1930.926 $\pm$ 0.233 χ^2 /NDF: 686464.0/54

Out: 1930.710 $\pm$ 0.230 χ^2 /NDF: 303810.7/58

All: 1930.816 $\pm$ 0.164 χ^2 /NDF: 990275.1/113

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 63.642 $\pm$ 1339.432 χ^2 /NDF: 34.2/31

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -101.200 $\pm$ 109.530 χ^2 /NDF: 41.0/33

Left In: 139.000 $\pm$ 1190.889 χ^2 /NDF:14.7/22

Left: -12.420 $\pm$ 833.090 χ^2 /NDF: 44.2/47

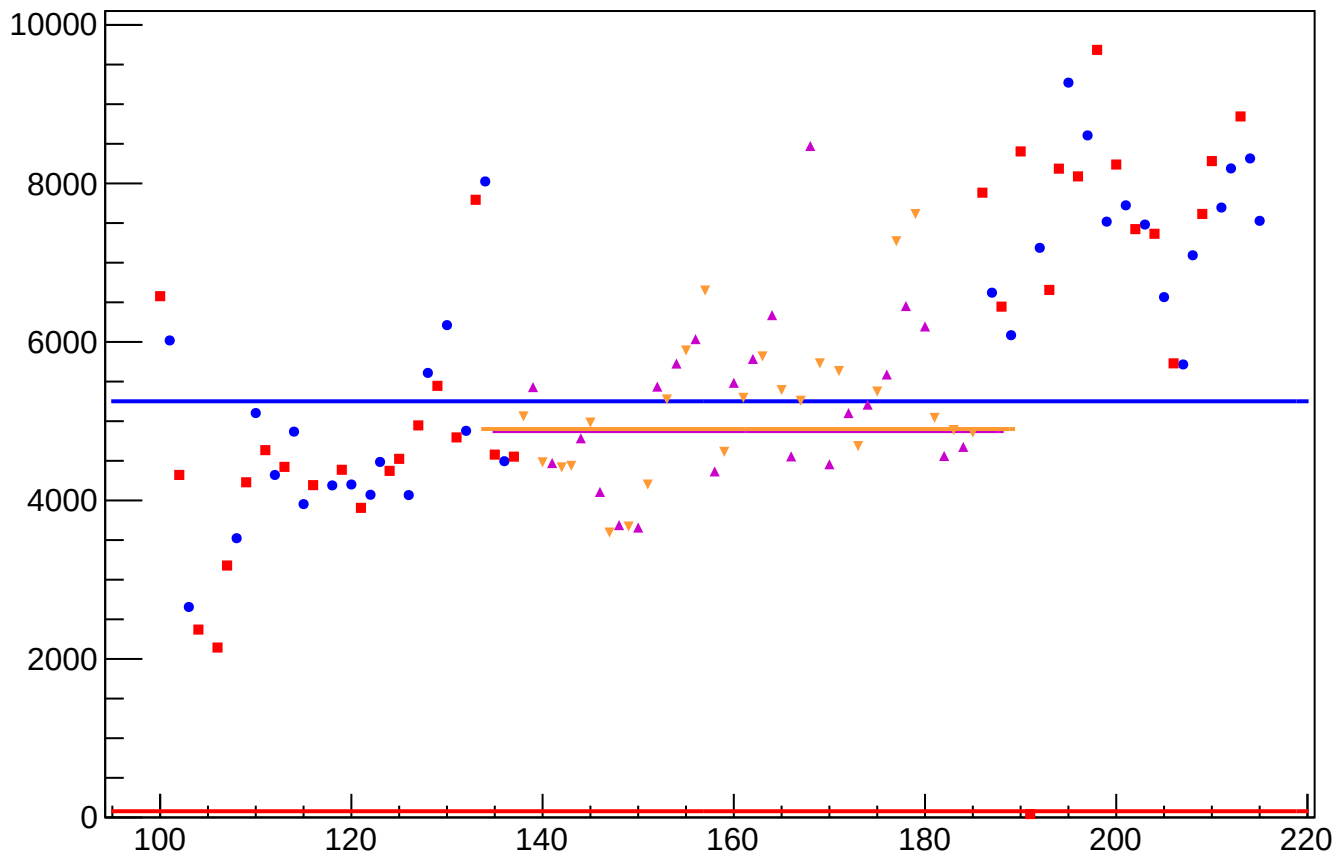
Right: -100.105 $\pm$ 109.166 χ^2 /NDF: 75.2/65

In: 105.730 $\pm$ 889.989 χ^2 /NDF:48.9/54

Out: -101.693 $\pm$ 109.050 χ^2 /NDF:70.5/58

All: -98.624 $\pm$ 108.241 χ^2 /NDF: 119.4/113

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5251.193+/-0.947 χ^2/NDF : 3685916.3/31

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 78.500+/-0.077 χ^2/NDF : 32848518.0/33

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

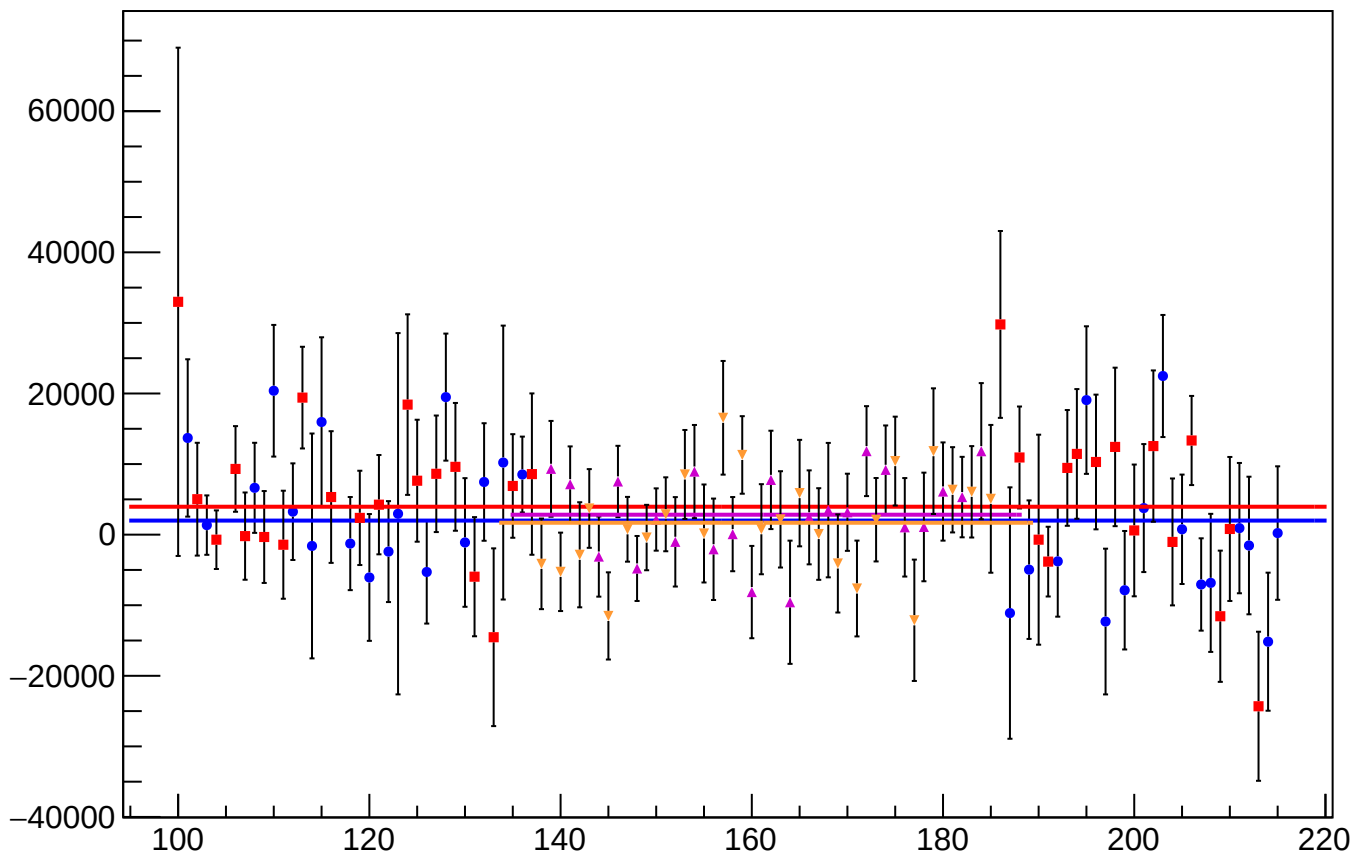
Right: 112.859+/-0.077 χ^2/NDF : 66164140.0/65

In: 5041.150+/-0.629 χ^2/NDF : 5003173.9/54

Out: 120.696+/-0.077 χ^2/NDF : 67912096.4/58

All: 193.477+/-0.077 χ^2/NDF : 133143451.3/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1992.928+/-1464.160 χ^2/NDF : 34.6/31

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 3956.705+/-1362.712 χ^2/NDF : 37.6/33

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

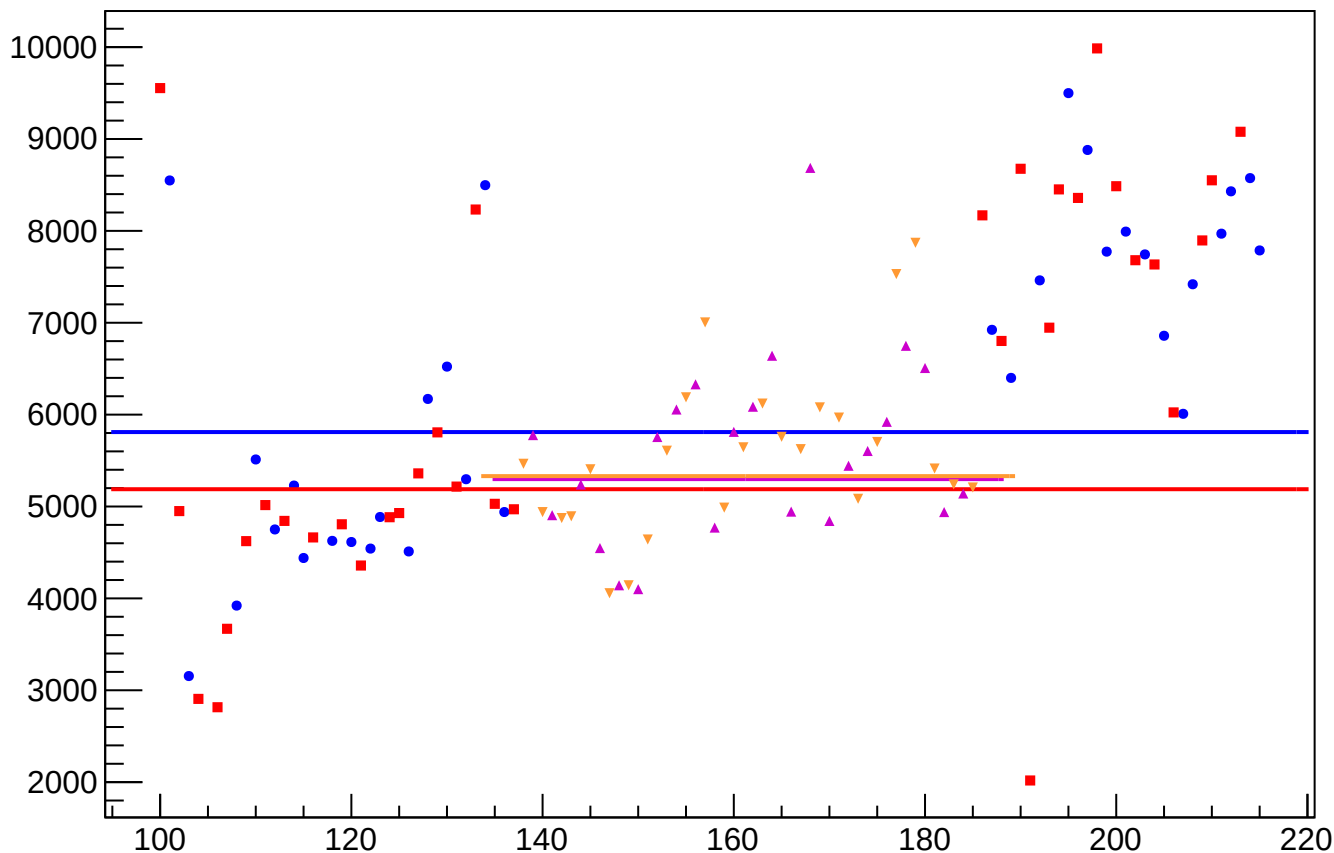
Right: 3045.199+/-997.521 χ^2/NDF : 73.1/65

In: 2461.355+/-967.245 χ^2/NDF : 52.8/54

Out: 2734.325+/-925.790 χ^2/NDF : 64.5/58

All: 2603.815+/-668.808 χ^2/NDF : 117.3/113

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5810.256 $\pm$ 1.035 χ^2/NDF : 2961748.9/31

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF :868061.7/24

Right Out: 5188.254 $\pm$ 0.960 χ^2/NDF : 4562966.8/33

Left In: 5298.329 $\pm$ 0.911 χ^2/NDF :956021.6/22

Left: 5314.867 $\pm$ 0.637 χ^2/NDF : 1824728.8/47

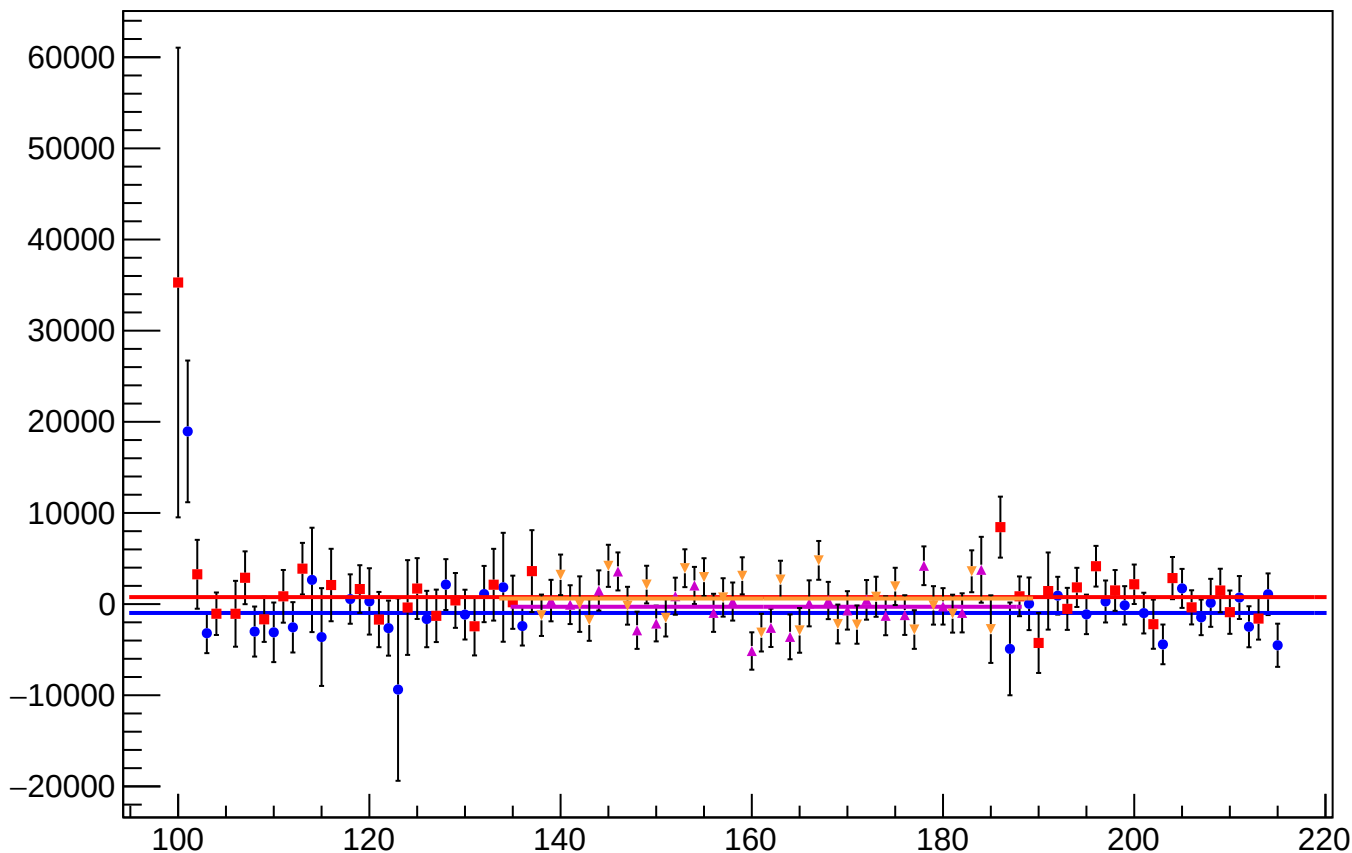
Right: 5475.842 $\pm$ 0.704 χ^2/NDF : 7718772.8/65

In: 5521.740 $\pm$ 0.684 χ^2/NDF :4055564.7/54

Out: 5264.711 $\pm$ 0.654 χ^2/NDF :5442845.6/58

All: 5387.385 $\pm$ 0.473 χ^2/NDF : 9572233.5/11

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -972.352 ± 471.429 $\chi^2/\text{NDF}: 23.8/31$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 766.910 ± 472.534 $\chi^2/\text{NDF}: 23.9/33$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

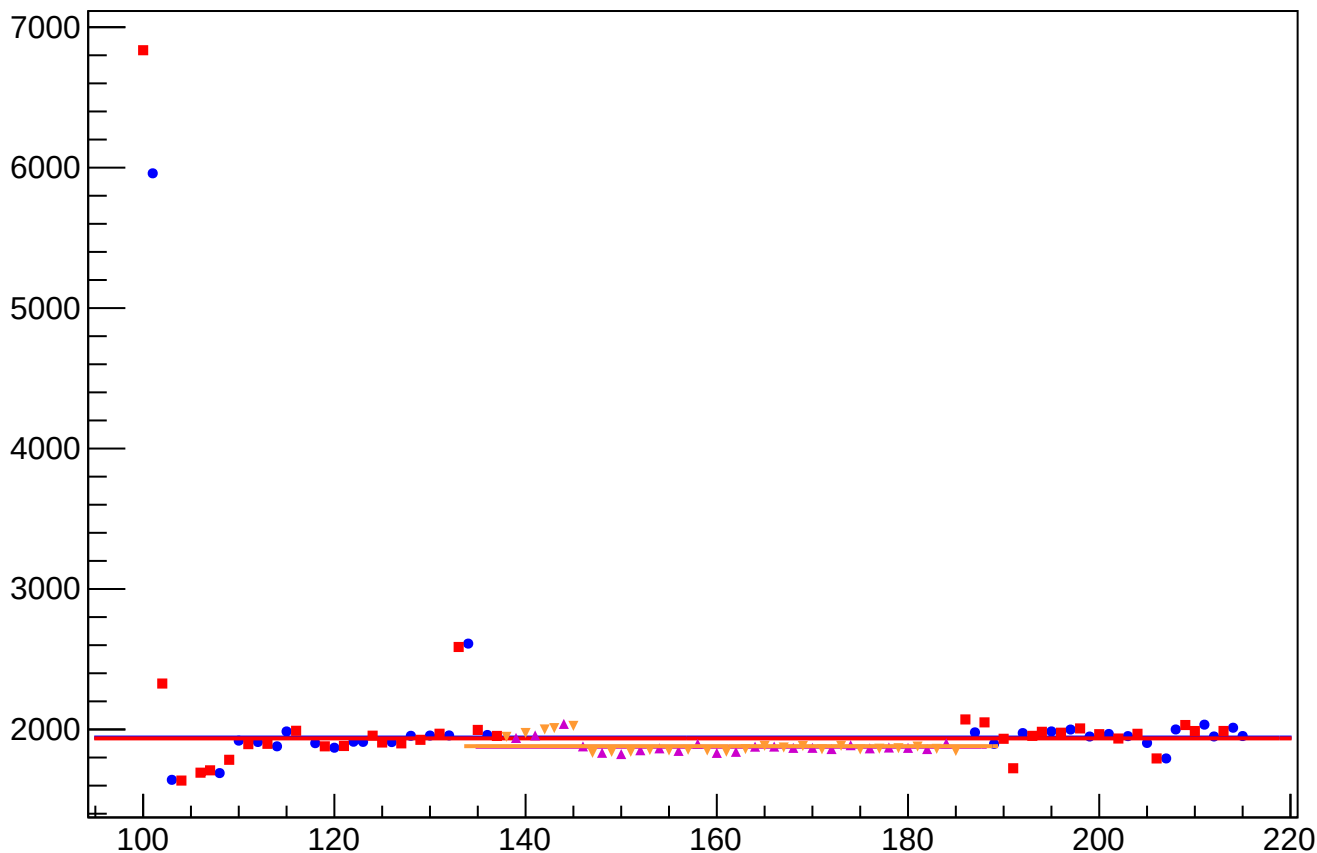
Right: -104.757 ± 333.740 $\chi^2/\text{NDF}: 54.5/65$

In: -616.570 ± 325.349 $\chi^2/\text{NDF}: 48.5/54$

Out: 683.803 ± 321.332 $\chi^2/\text{NDF}: 56.7/58$

All: 41.694 ± 228.623 $\chi^2/\text{NDF}: 113.3/113$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1942.360+/-0.333 χ^2/NDF : 638321.6/31

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1936.199+/-0.334 χ^2/NDF : 250984.7/33

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

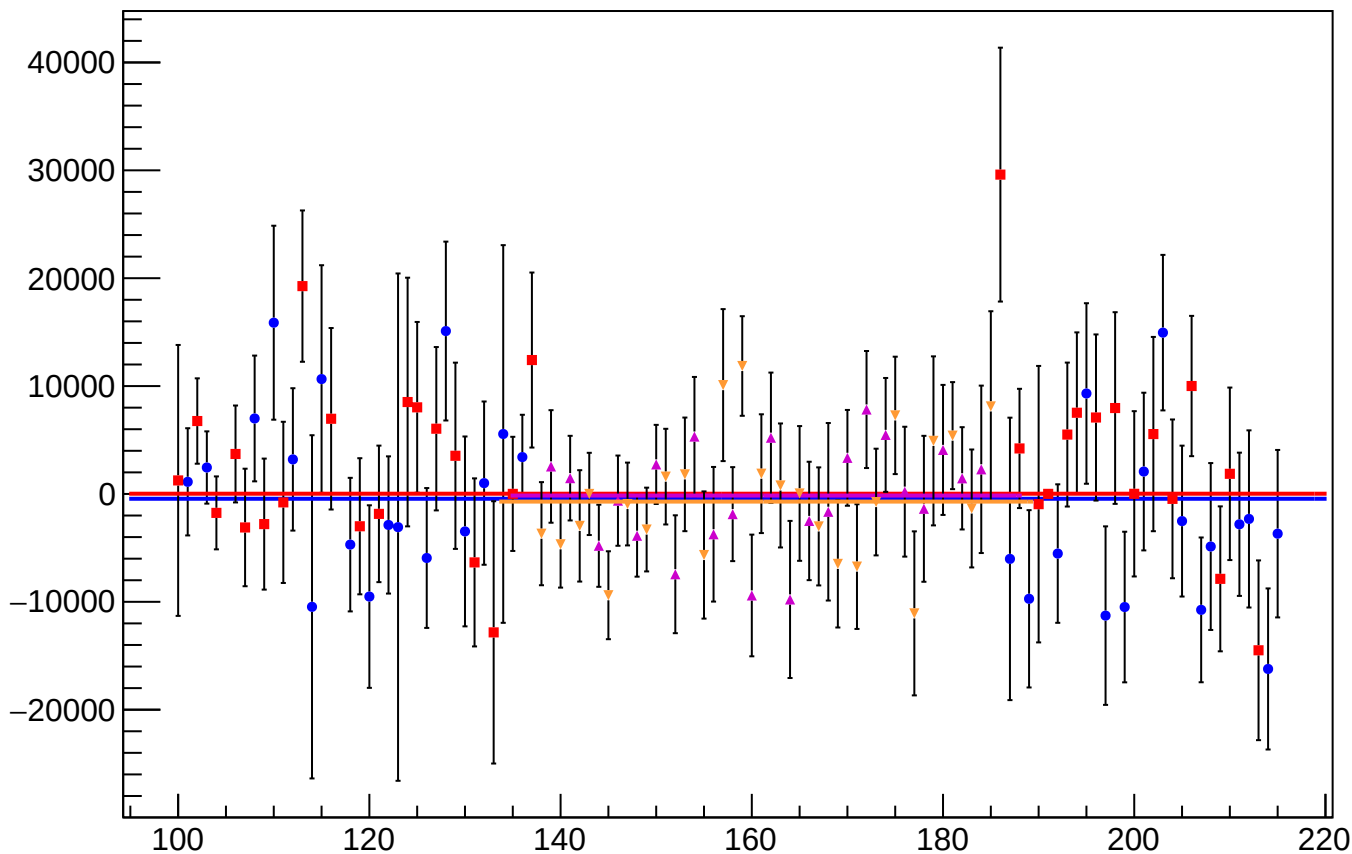
Right: 1939.284+/-0.236 χ^2/NDF : 889476.9/65

In: 1907.965+/-0.230 χ^2/NDF : 679149.6/54

Out: 1906.449+/-0.227 χ^2/NDF : 294428.6/58

All: 1907.197+/-0.162 χ^2/NDF : 973600.2/113

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -446.378+/-1217.507 χ^2/NDF : 34.3/31

Left Out: -707.785+/-1017.719 χ^2/NDF :27.1/24

Right Out: 21.960+/-85.780 χ^2/NDF : 36.9/33

Left In: -150.495+/-1053.655 χ^2/NDF :16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

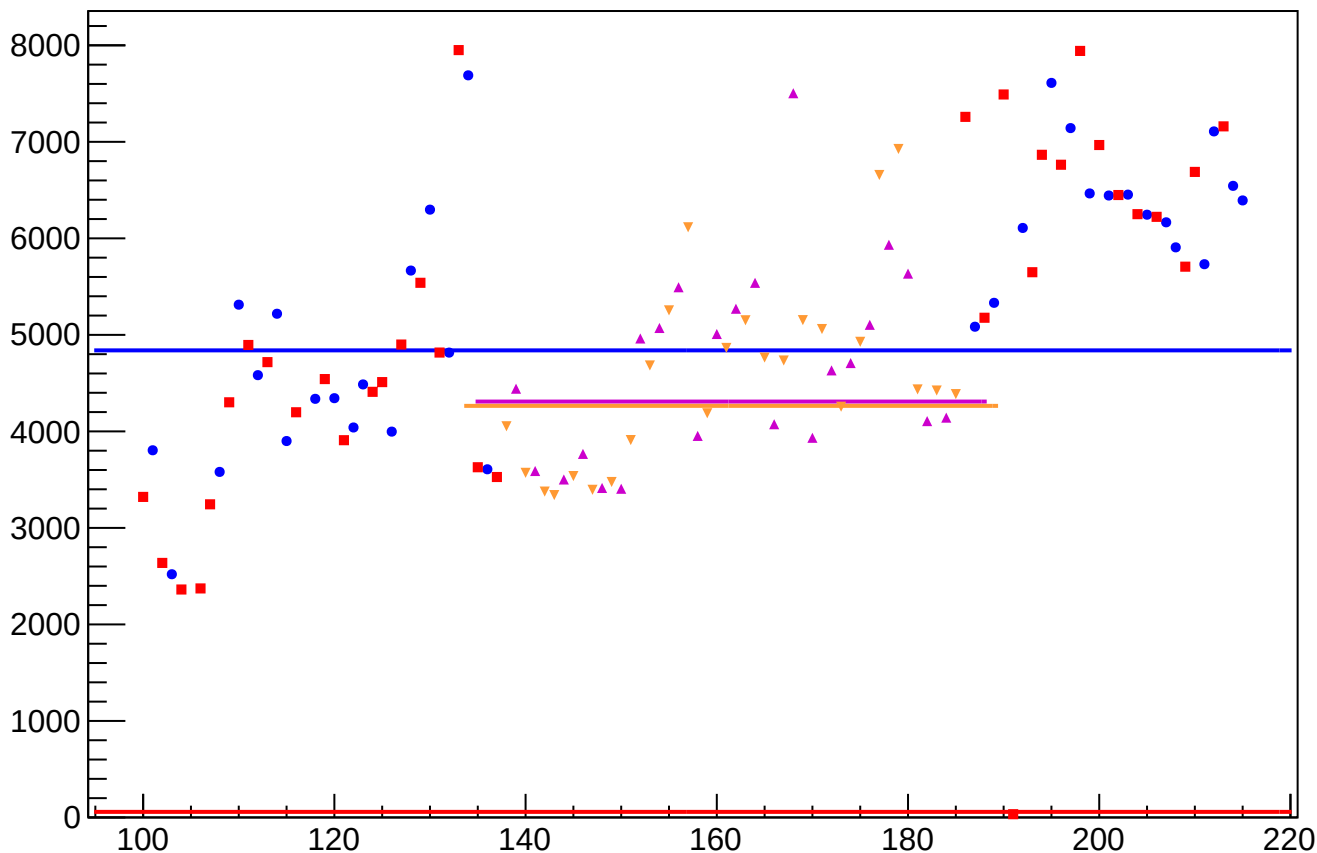
Right: 19.646+/-85.568 χ^2/NDF : 71.4/65

In: -277.201+/-796.727 χ^2/NDF :51.3/54

Out: 16.812+/-85.477 χ^2/NDF :64.5/58

All: 13.466+/-84.989 χ^2/NDF : 115.9/113

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4839.410+/-0.861 χ^2/NDF : 2911068.2/31

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 57.843+/-0.061 χ^2/NDF : 33020920.4/33

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

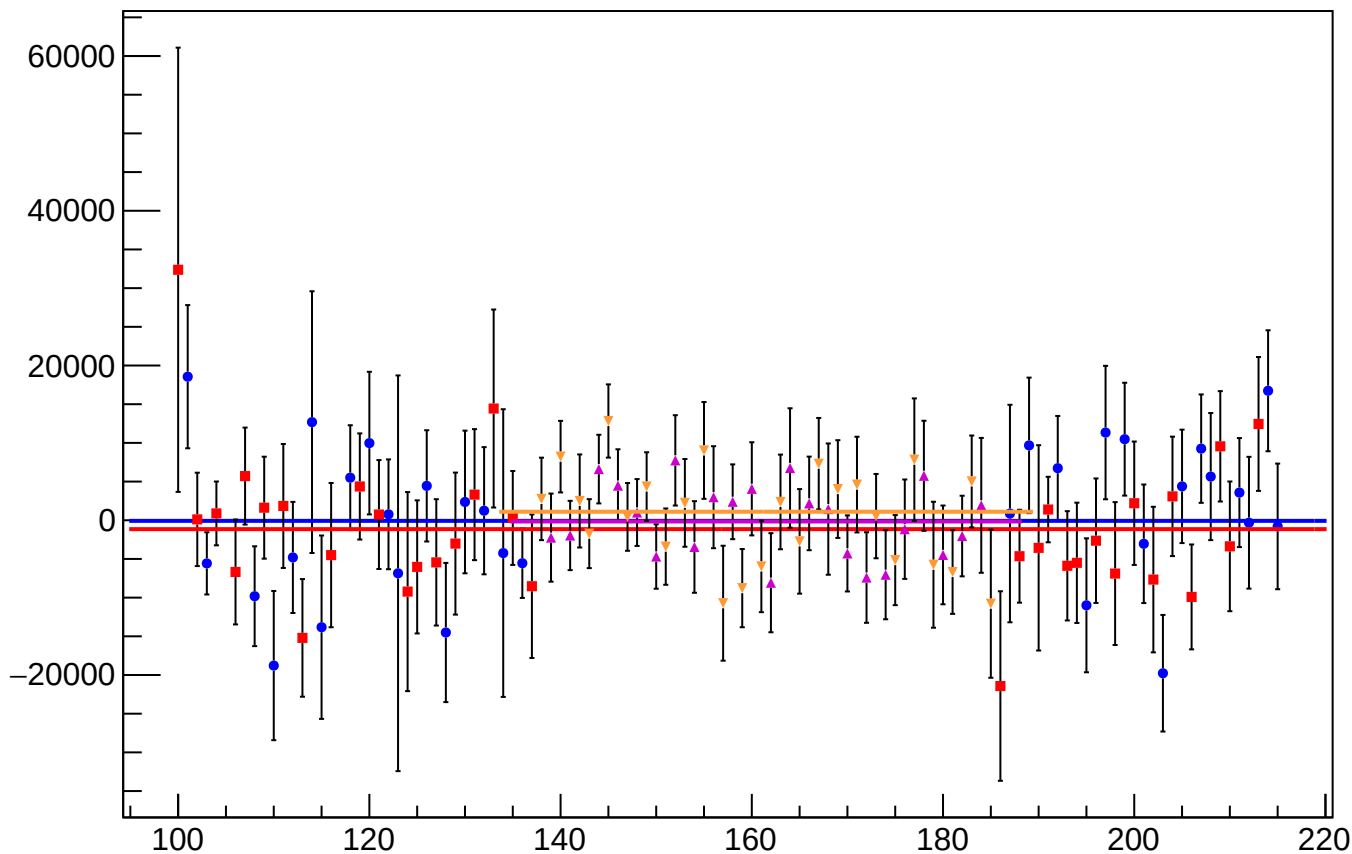
Right: 81.461+/-0.061 χ^2/NDF : 66627654.0/65

In: 4536.156+/-0.563 χ^2/NDF : 4433210.4/54

Out: 87.517+/-0.060 χ^2/NDF : 68303980.5/58

All: 138.138+/-0.060 χ^2/NDF : 134381810.6/1

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -77.254 $\pm$ 1356.210 χ^2/NDF : 43.1/31

Left Out: 1102.204 $\pm$ 1126.663 χ^2/NDF : 28.6/24

Right Out: -1147.890 $\pm$ 1268.698 χ^2/NDF : 23.7/33

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

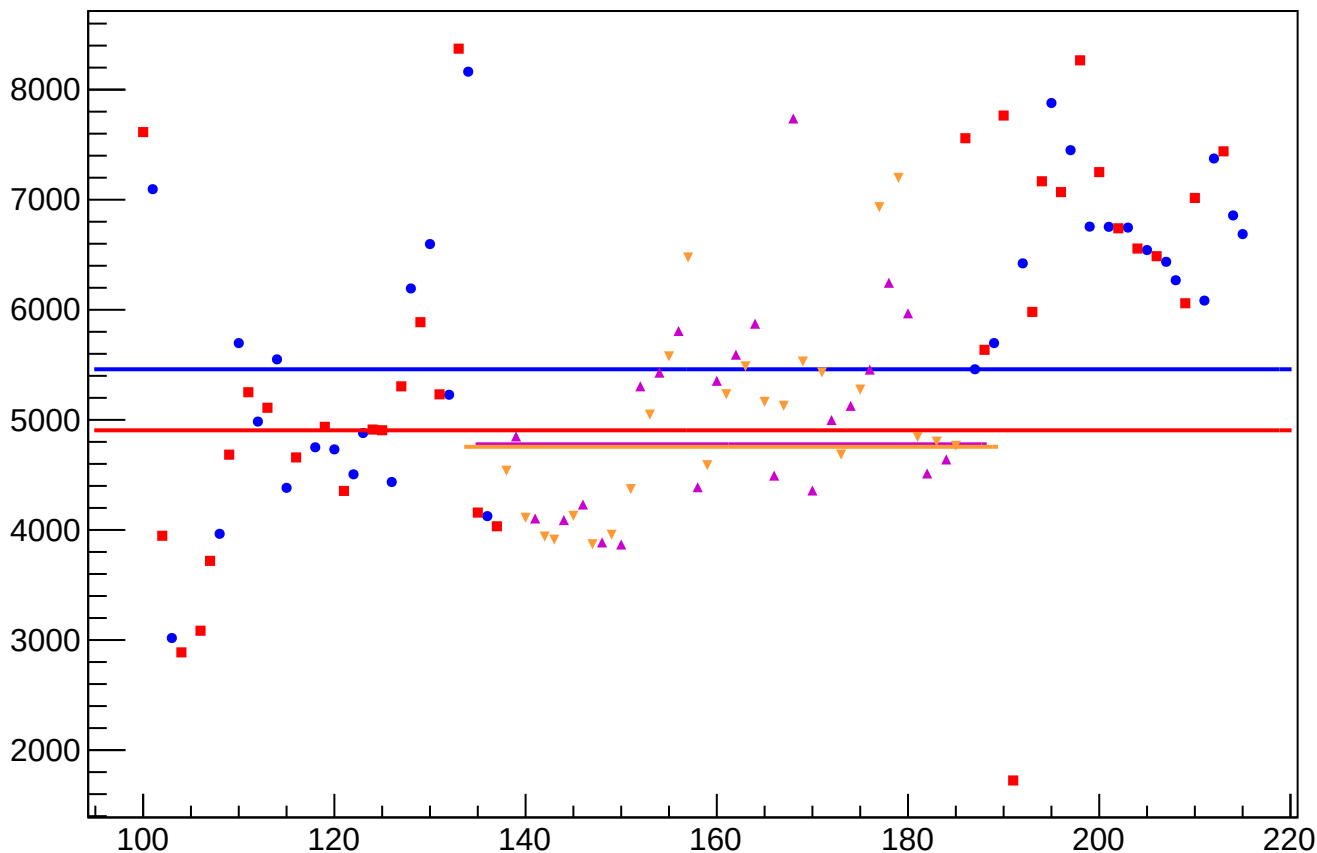
Right: -648.226 $\pm$ 926.499 χ^2/NDF : 67.1/65

In: -124.228 $\pm$ 882.190 χ^2/NDF : 58.6/54

Out: 110.111 $\pm$ 842.431 χ^2/NDF : 54.0/58

All: -1.659 $\pm$ 609.260 χ^2/NDF : 112.6/113

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5459.586 $\pm$ 0.959 χ^2/NDF : 2122227.7/31

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4905.033 $\pm$ 0.894 χ^2/NDF : 3806693.7/33

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

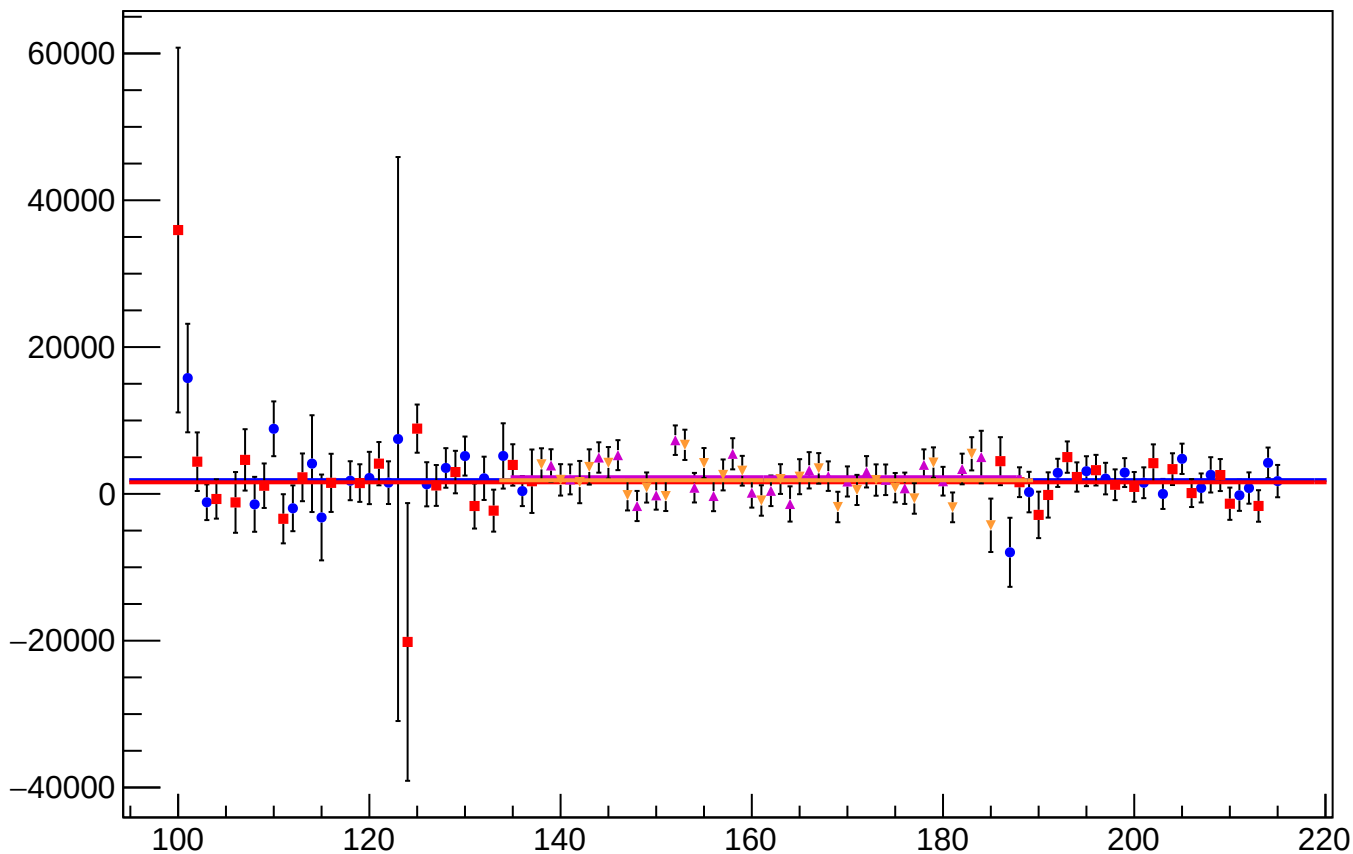
Right: 5162.975 $\pm$ 0.654 χ^2/NDF : 6107778.3/65

In: 5066.300 $\pm$ 0.624 χ^2/NDF : 3364069.0/54

Out: 4821.598 $\pm$ 0.595 χ^2/NDF : 4775634.2/58

All: 4938.141 $\pm$ 0.430 χ^2/NDF : 8220295.0/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1872.729+/-456.976 χ^2/NDF : 26.1/31

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1577.594+/-462.026 χ^2/NDF : 30.4/33

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

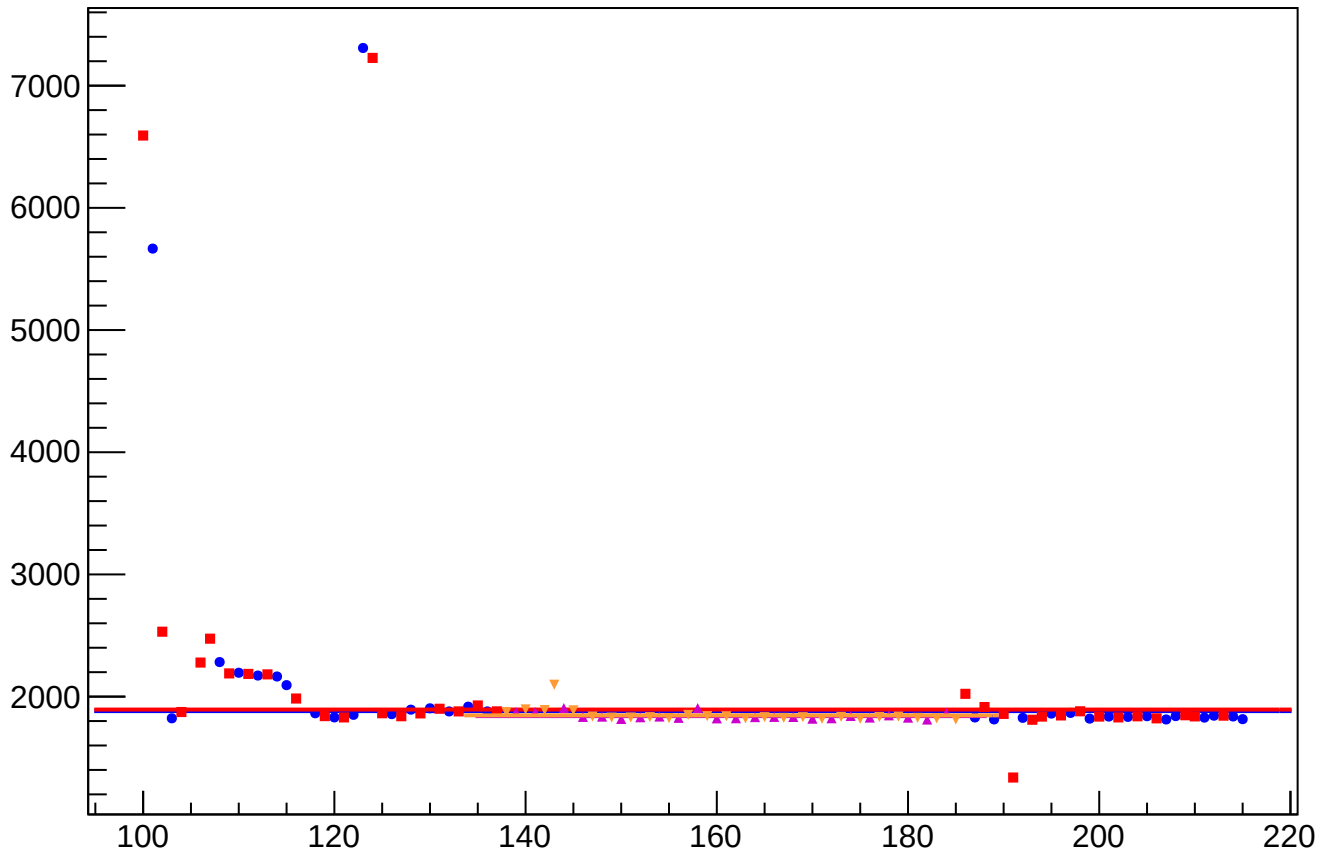
Right: 1726.784+/-324.902 χ^2/NDF : 56.7/65

In: 2077.317+/-317.596 χ^2/NDF :53.4/54

Out: 1726.771+/-315.152 χ^2/NDF :60.5/58

All: 1900.690+/-223.705 χ^2/NDF : 114.5/113

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1881.407 $\pm$ 0.323 χ^2 /NDF: 643190.2/31

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1894.081 $\pm$ 0.327 χ^2 /NDF: 476536.3/33

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

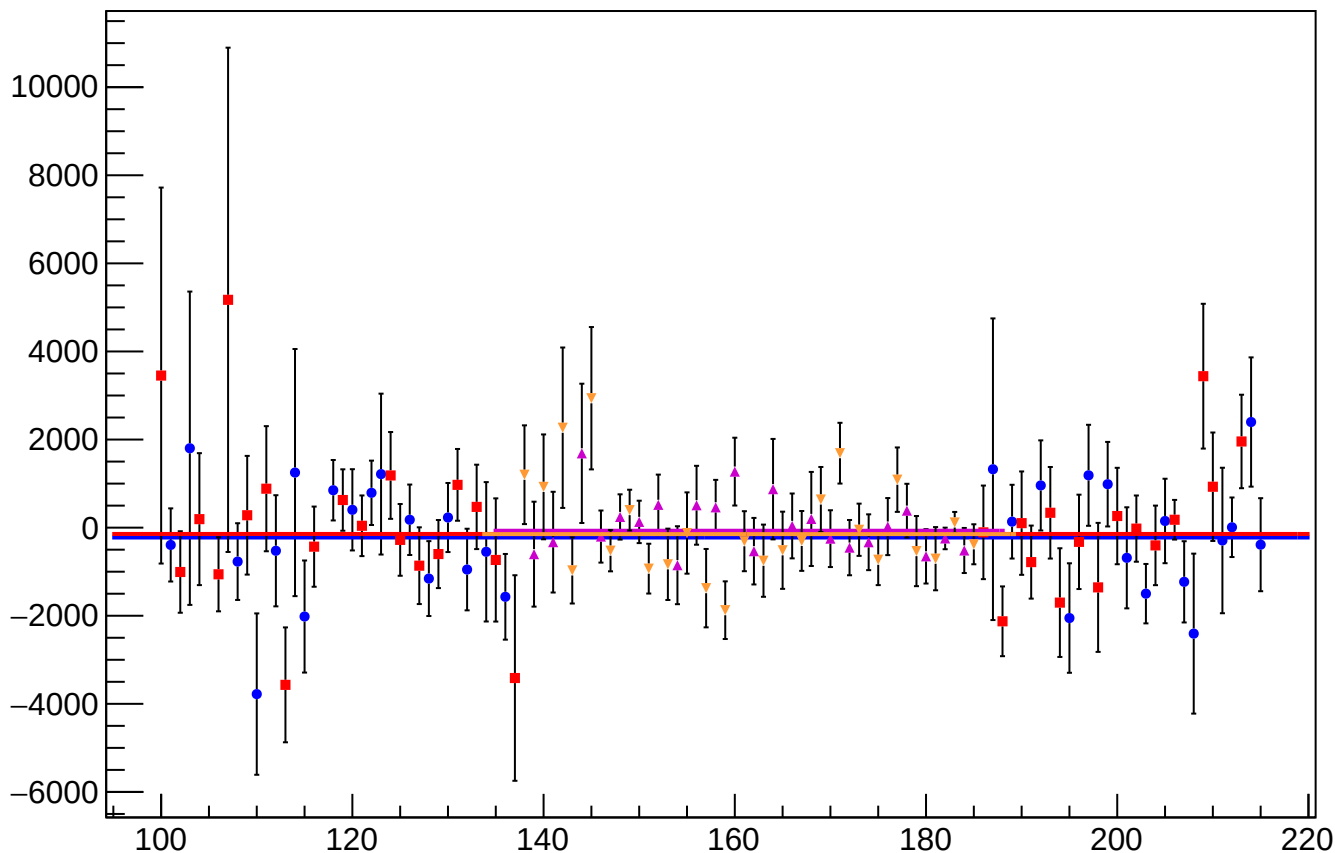
Right: 1887.674 $\pm$ 0.230 χ^2 /NDF: 1120487.2/65

In: 1860.280 $\pm$ 0.225 χ^2 /NDF: 658198.9/54

Out: 1868.692 $\pm$ 0.223 χ^2 /NDF: 515132.6/58

All: 1864.519 $\pm$ 0.158 χ^2 /NDF: 1174038.4/11

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -223.909+/-177.921 χ^2/NDF : 33.5/31

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -143.046+/-163.945 χ^2/NDF : 39.5/33

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

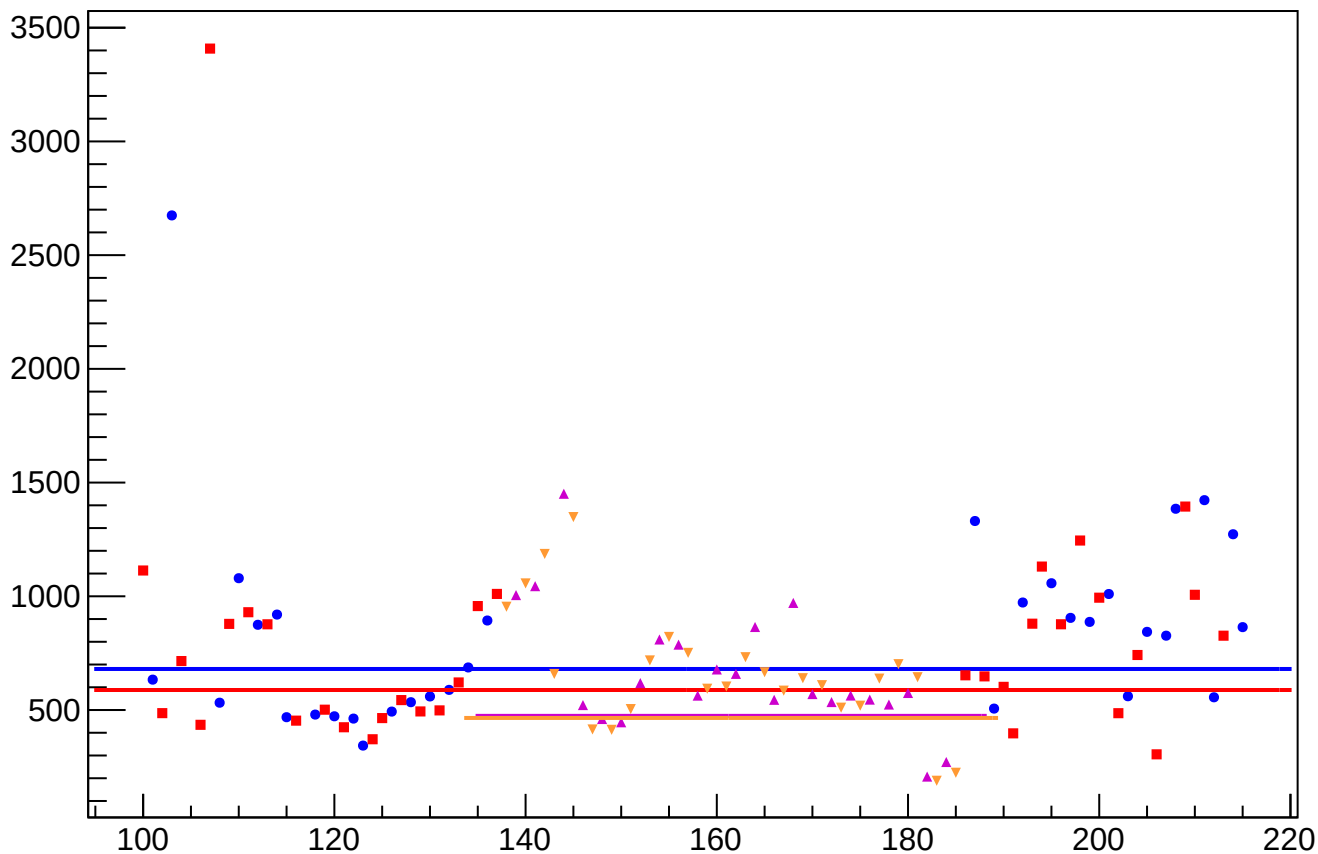
Right: -180.178+/-120.565 χ^2/NDF : 73.2/65

In: -121.836+/-103.029 χ^2/NDF : 46.3/54

Out: -145.590+/-97.866 χ^2/NDF : 77.2/58

All: -134.323+/-70.957 χ^2/NDF : 123.5/113

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 680.422 $\pm$ 0.126 χ^2/NDF : 3928515.1/31

Left Out: 465.080 $\pm$ 0.086 χ^2/NDF : 7086137.6/24

Right Out: 587.970 $\pm$ 0.116 χ^2/NDF : 4715573.4/33

Left In: 474.263 $\pm$ 0.089 χ^2/NDF : 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2/NDF : 13264703.6/47

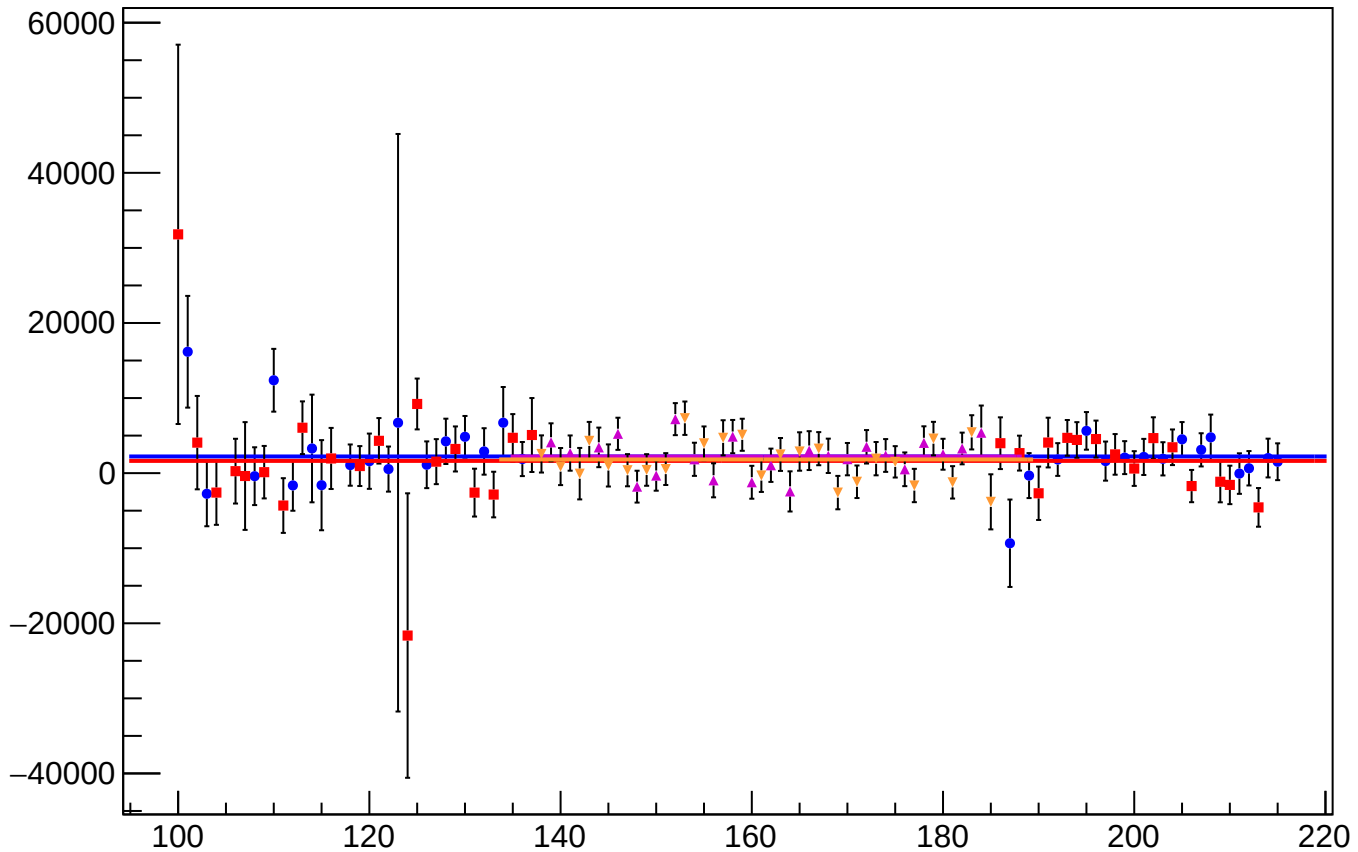
Right: 630.423 $\pm$ 0.085 χ^2/NDF : 8936136.1/65

In: 543.393 $\pm$ 0.073 χ^2/NDF : 11886428.6/54

Out: 508.871 $\pm$ 0.069 χ^2/NDF : 12525014.5/58

All: 525.245 $\pm$ 0.050 χ^2/NDF : 24529482.7/11

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2220.032 $\pm$ 518.160 χ^2 /NDF: 25.6/31

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1630.759 $\pm$ 526.433 χ^2 /NDF: 40.2/33

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

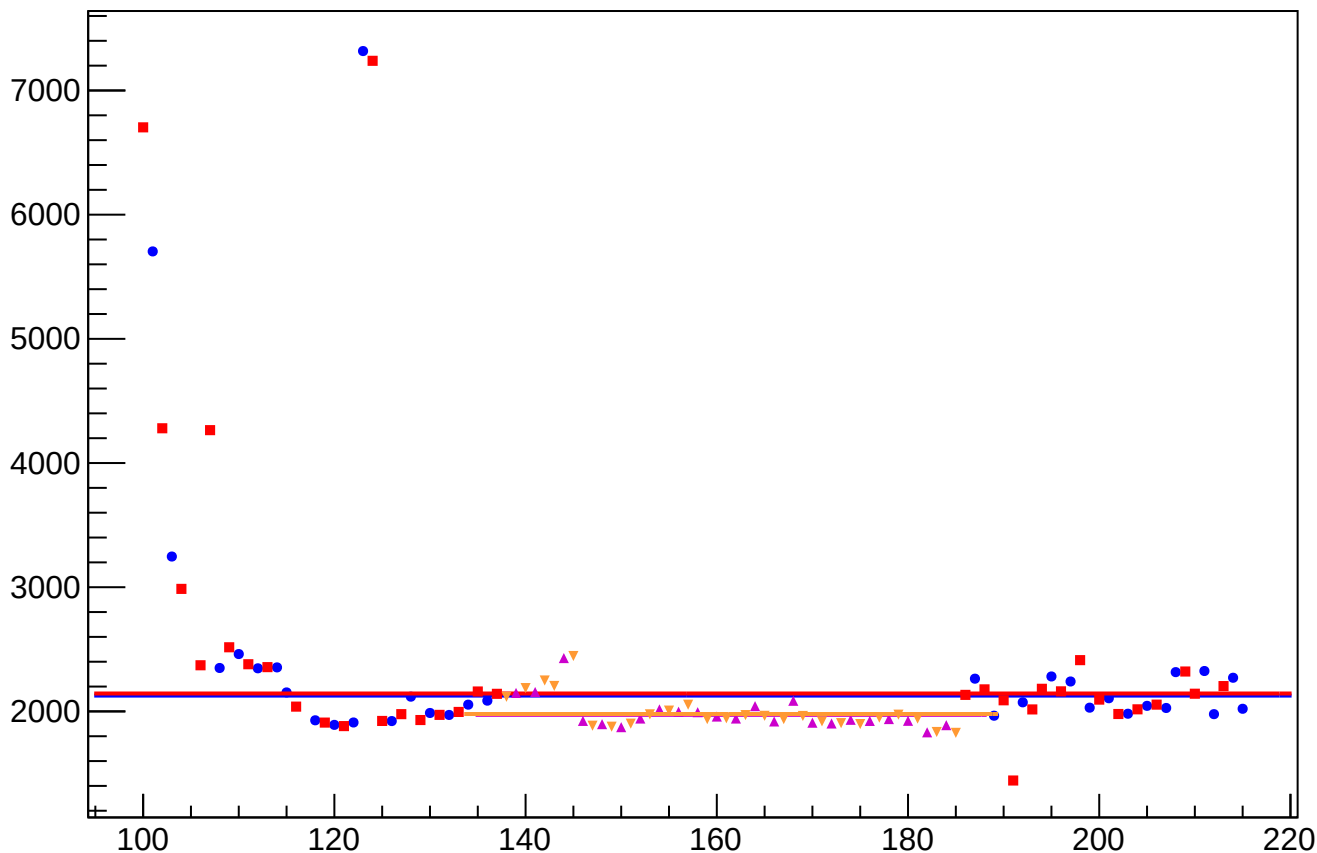
Right: 1930.062 $\pm$ 369.285 χ^2 /NDF: 66.5/65

In: 2213.544 $\pm$ 349.761 χ^2 /NDF:51.0/54

Out: 1739.818 $\pm$ 347.536 χ^2 /NDF:72.4/58

All: 1975.170 $\pm$ 246.528 χ^2 /NDF: 124.3/113

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2127.368+/-0.366 χ^2/NDF : 787704.8/31

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2144.159+/-0.372 χ^2/NDF : 951630.0/33

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

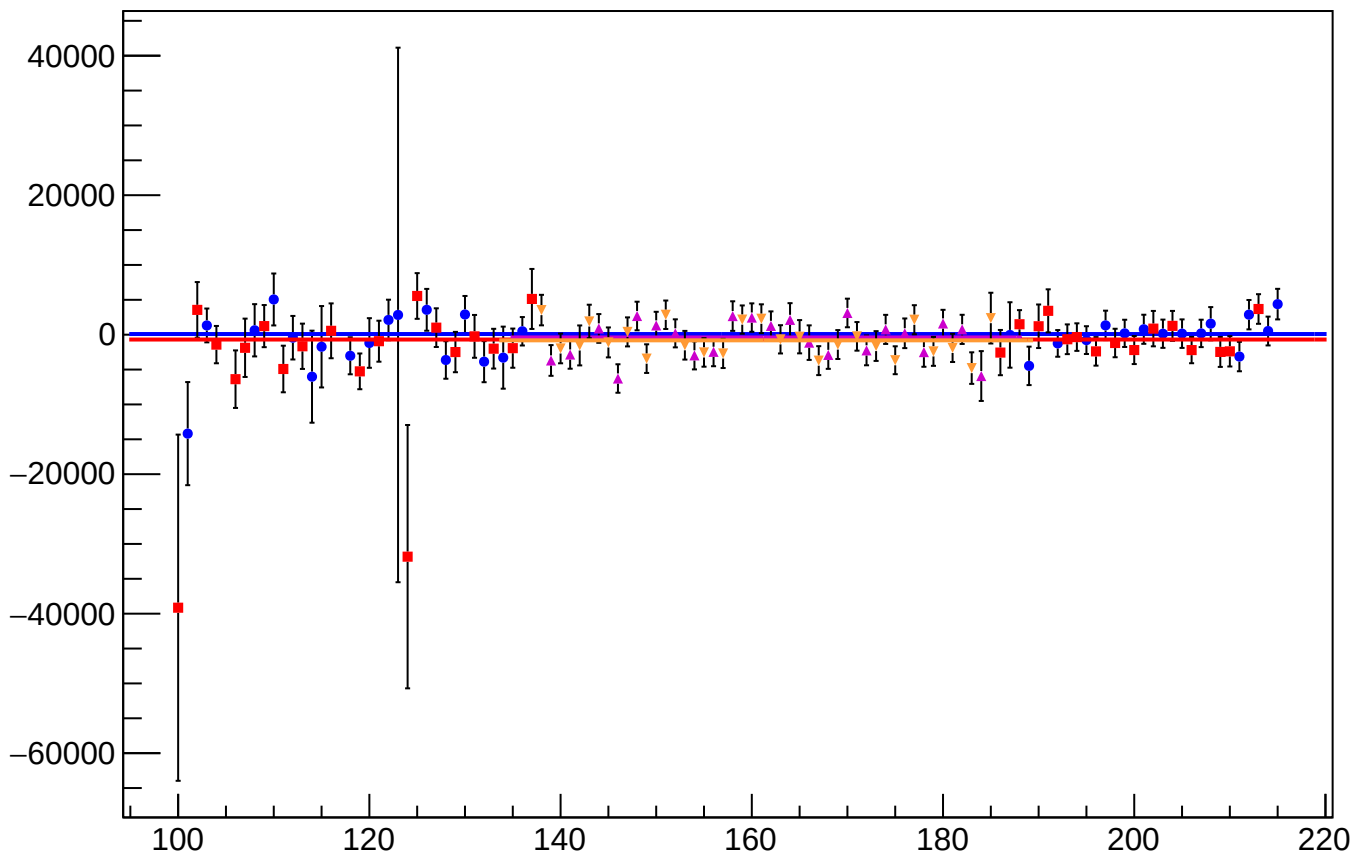
Right: 2135.631+/-0.261 χ^2/NDF : 1740368.3/65

In: 2042.881+/-0.247 χ^2/NDF :1001833.5/54

Out: 2050.979+/-0.246 χ^2/NDF :1201994.7/58

All: 2046.956+/-0.174 χ^2/NDF : 2204367.7/11

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 94.265+/-453.778 χ^2/NDF : 27.8/31

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -694.720+/-458.509 χ^2/NDF : 32.7/33

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

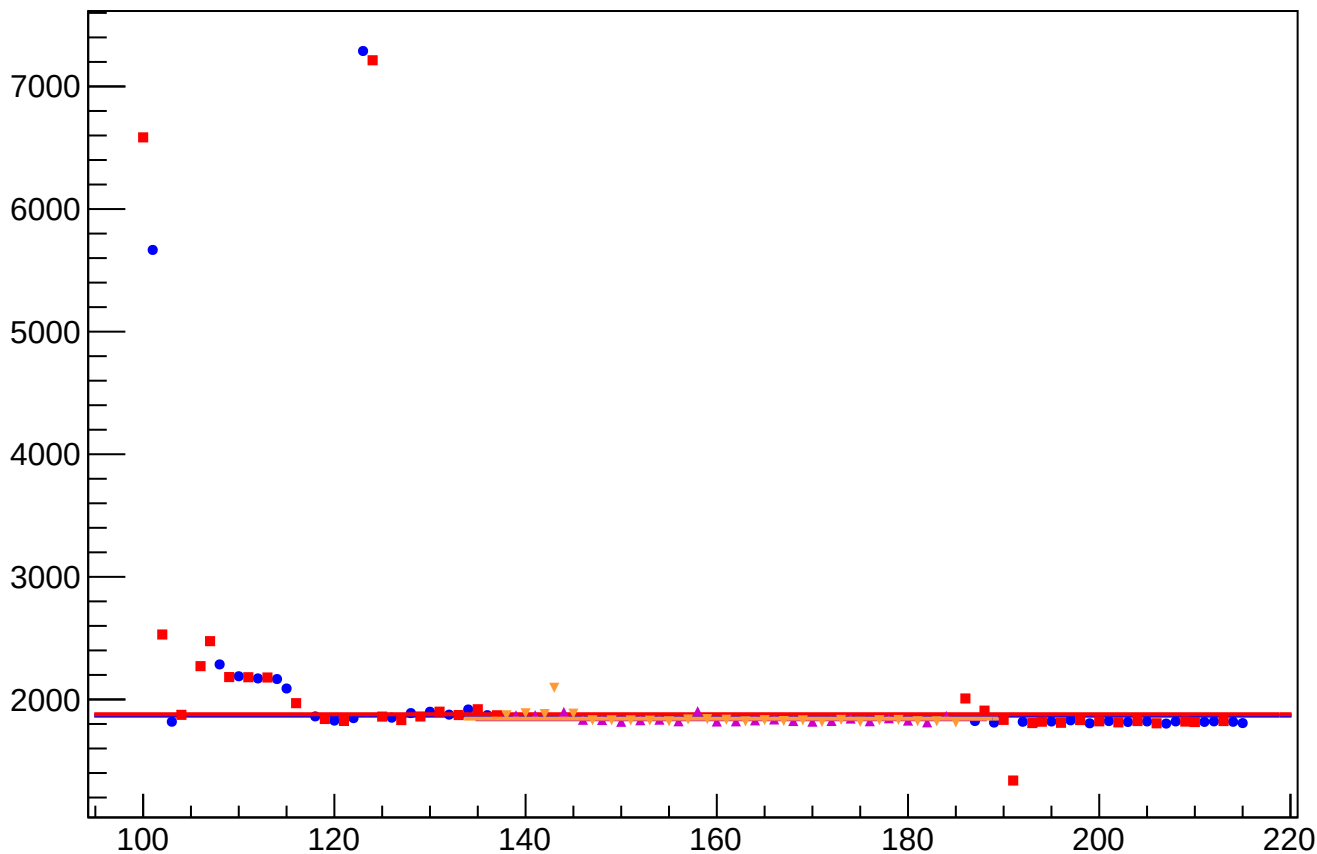
Right: -296.136+/-322.529 χ^2/NDF : 62.0/65

In: -159.169+/-316.346 χ^2/NDF : 62.8/54

Out: -755.183+/-313.768 χ^2/NDF : 60.7/58

All: -459.613+/-222.773 χ^2/NDF : 125.3/113

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1867.995+/-0.321 χ^2/NDF : 653135.2/31

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1879.451+/-0.324 χ^2/NDF : 485483.9/33

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

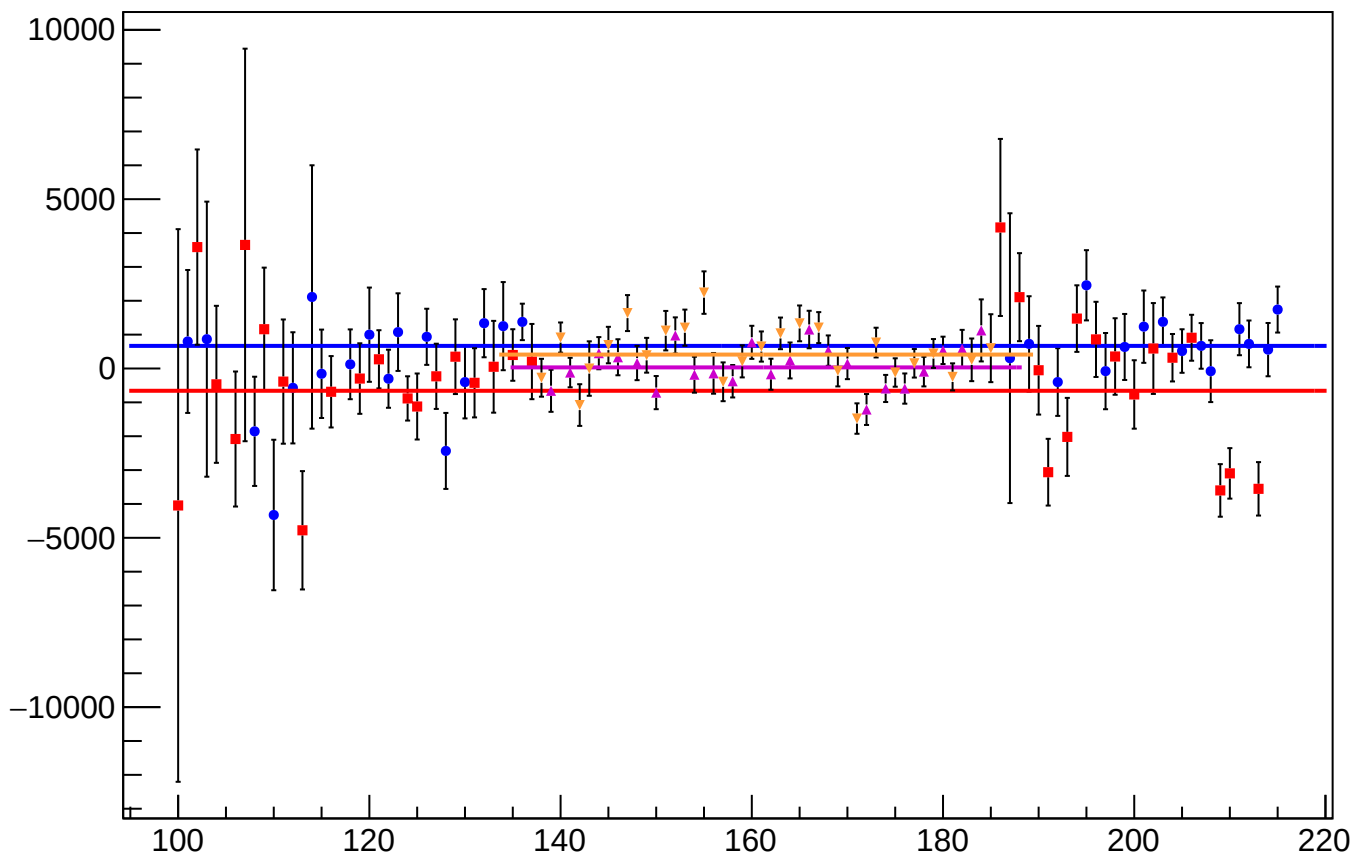
Right: 1873.664+/-0.228 χ^2/NDF : 1139250.0/65

In: 1852.891+/-0.224 χ^2/NDF : 663780.6/54

Out: 1860.467+/-0.222 χ^2/NDF : 518799.8/58

All: 1856.710+/-0.158 χ^2/NDF : 1183158.6/118

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 667.564 $\pm$ 171.131 χ^2/NDF : 30.9/31

Left Out: 411.072 $\pm$ 100.456 χ^2/NDF : 61.2/24

Right Out: -657.933 $\pm$ 180.825 χ^2/NDF : 85.1/33

Left In: 32.456 $\pm$ 102.403 χ^2/NDF : 32.7/22

Left: 225.398 $\pm$ 71.712 χ^2/NDF : 100.9/47

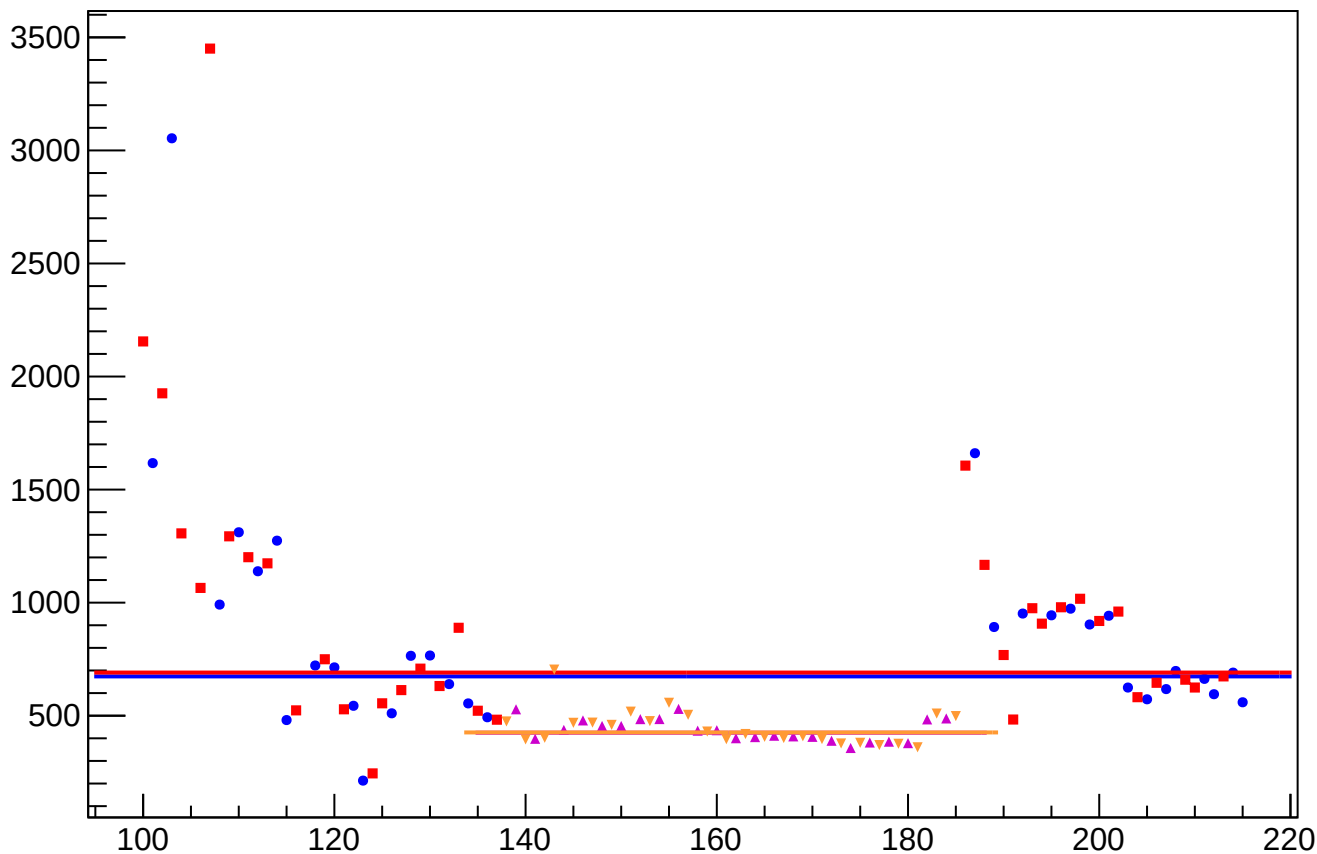
Right: 41.296 $\pm$ 124.294 χ^2/NDF : 144.3/65

In: 199.910 $\pm$ 87.872 χ^2/NDF : 73.8/54

Out: 158.957 $\pm$ 87.815 χ^2/NDF : 172.9/58

All: 179.420 $\pm$ 62.115 χ^2/NDF : 246.9/113

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 673.796 $\pm$ 0.121 χ^2 /NDF: 3287805.0/31

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 690.842 $\pm$ 0.128 χ^2 /NDF: 4343954.3/33

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

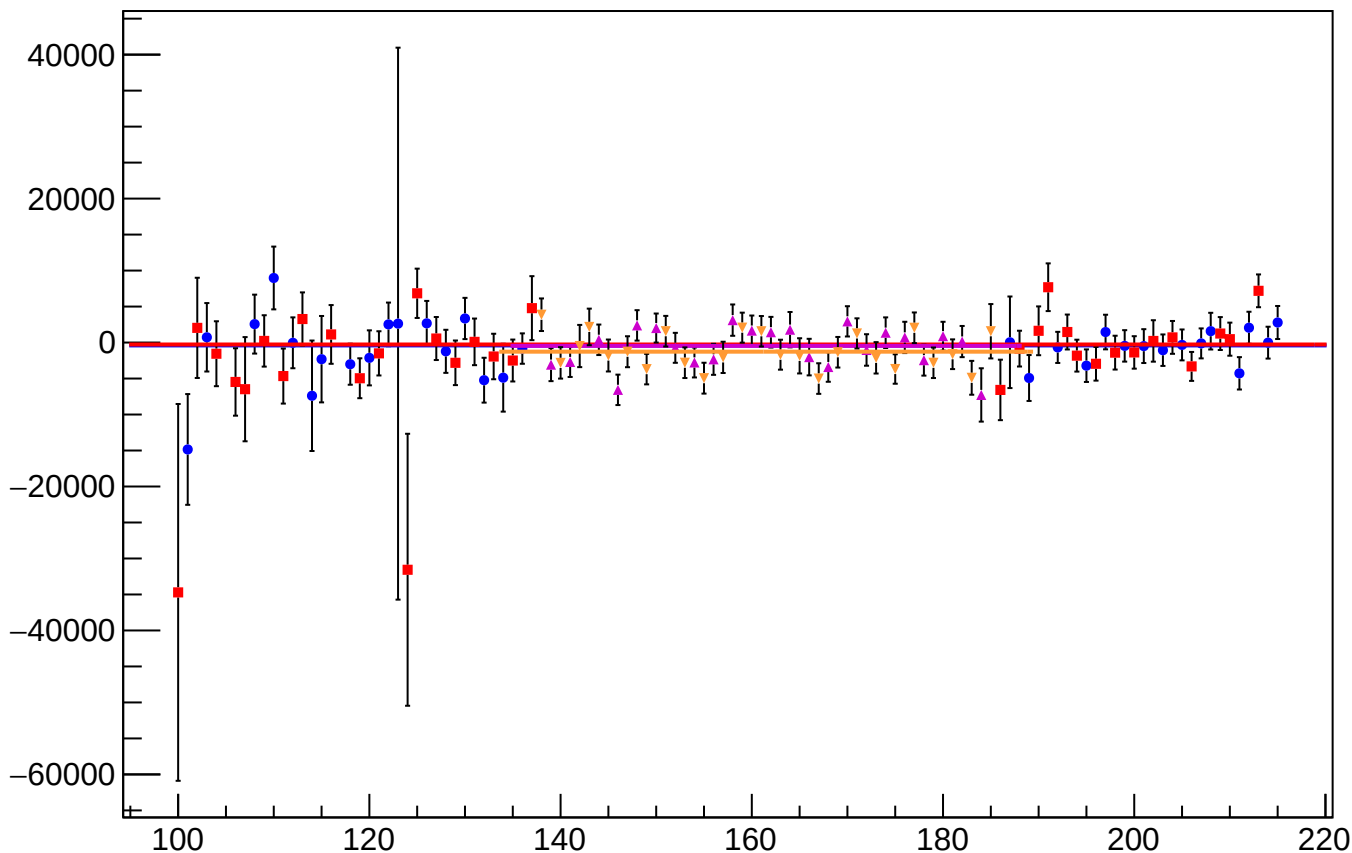
Right: 681.850 $\pm$ 0.088 χ^2 /NDF: 7641135.3/65

In: 490.332 $\pm$ 0.062 χ^2 /NDF: 6801153.7/54

Out: 488.481 $\pm$ 0.062 χ^2 /NDF: 8354815.5/58

All: 489.406 $\pm$ 0.044 χ^2 /NDF: 15156412.9/112

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -397.949+/-499.431 χ^2/NDF : 28.8/31

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -270.741+/-514.022 χ^2/NDF : 44.2/33

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

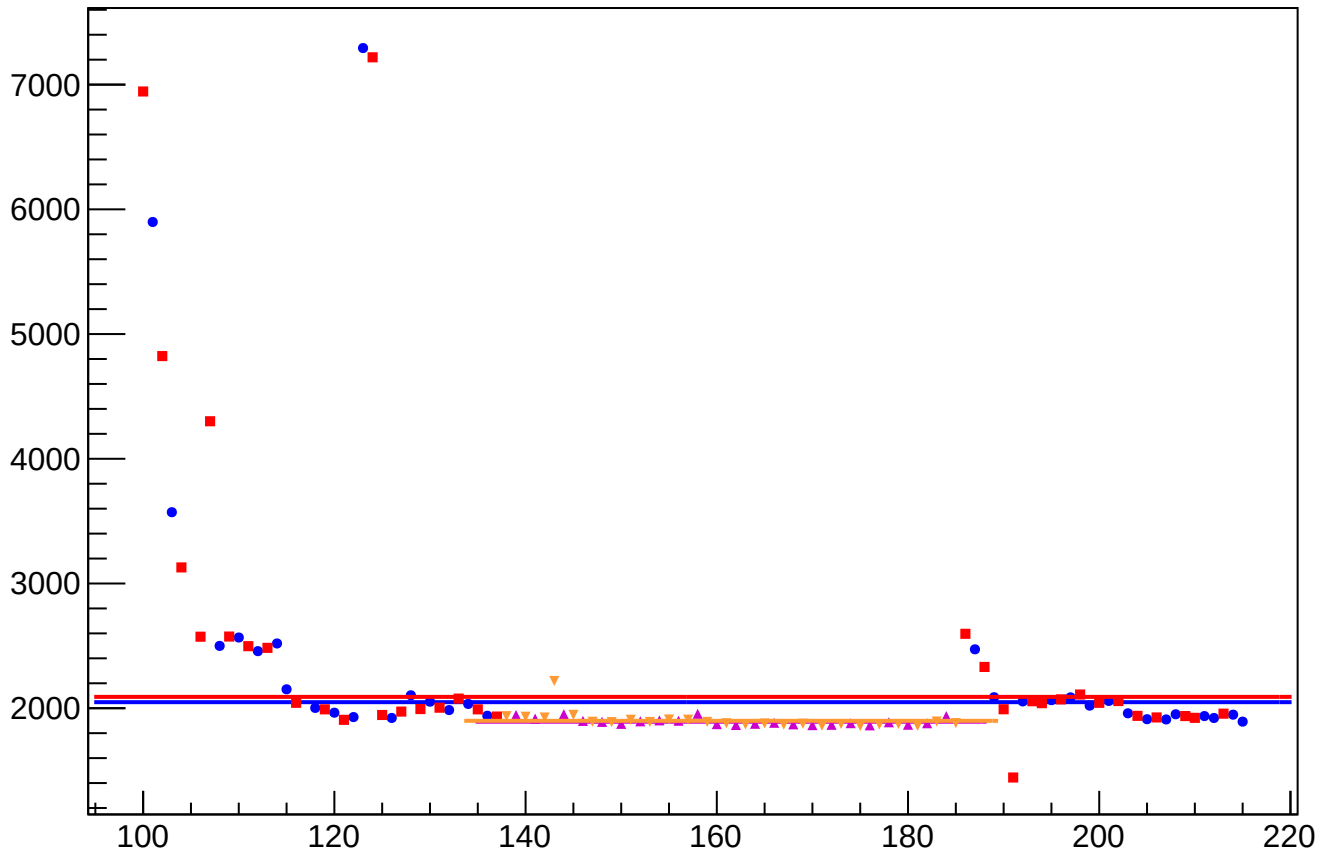
Right: -336.176+/-358.198 χ^2/NDF : 73.0/65

In: -433.351+/-335.921 χ^2/NDF :61.4/54

Out: -842.666+/-335.667 χ^2/NDF :77.2/58

All: -638.163+/-237.442 χ^2/NDF : 139.3/113

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2048.481 $\pm$ 0.353 χ^2 /NDF: 903829.8/31

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF: 38680.4/24

Right Out: 2090.917 $\pm$ 0.363 χ^2 /NDF: 1122451.0/33

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF: 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

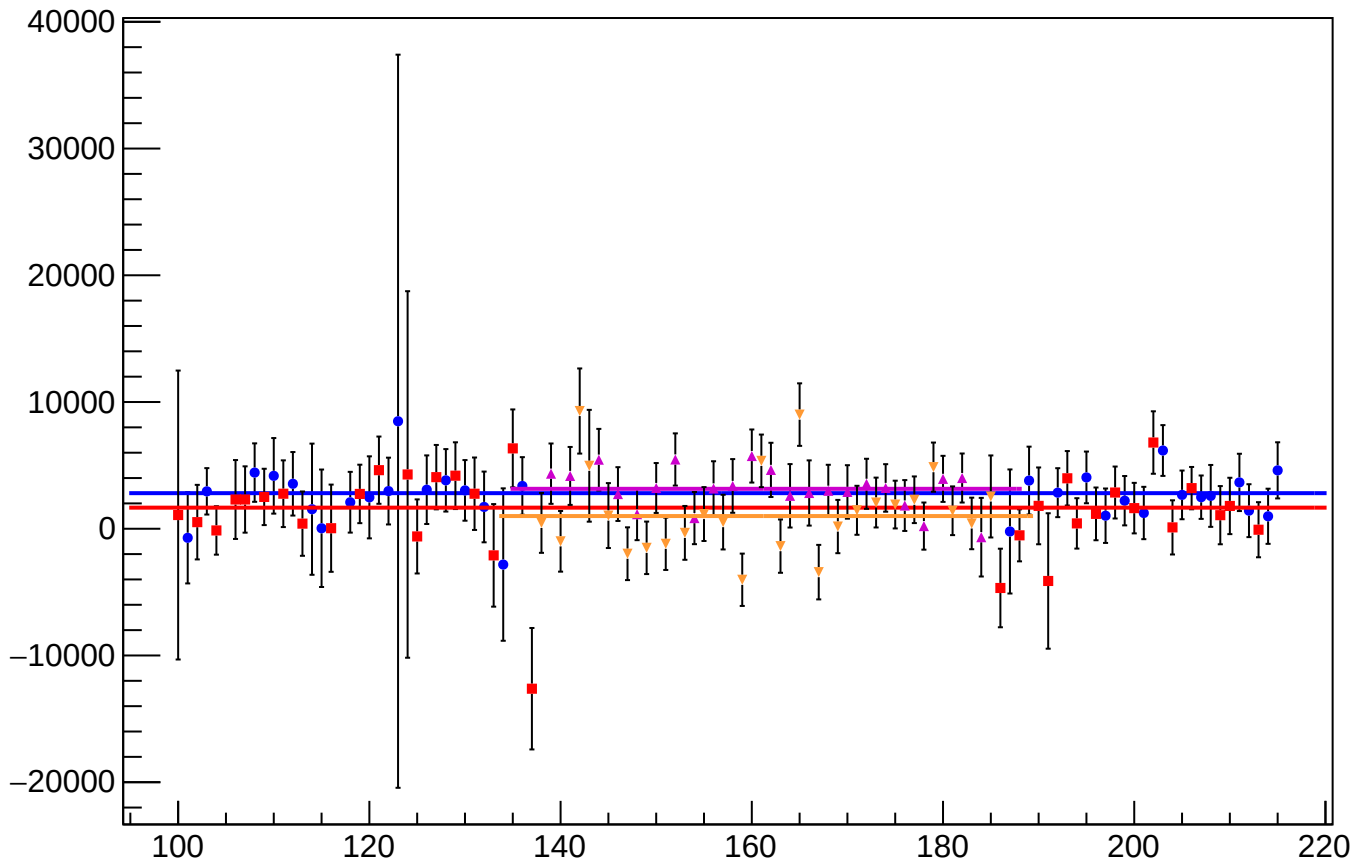
Right: 2069.088 $\pm$ 0.253 χ^2 /NDF: 2033292.6/65

In: 1962.624 $\pm$ 0.238 χ^2 /NDF: 1019187.8/54

Out: 1980.819 $\pm$ 0.237 χ^2 /NDF: 1321106.0/58

All: 1971.728 $\pm$ 0.168 χ^2 /NDF: 2343229.7/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2807.948 $\pm$ 429.012 χ^2 /NDF: 10.7/31

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1664.637 $\pm$ 432.836 χ^2 /NDF: 32.9/33

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

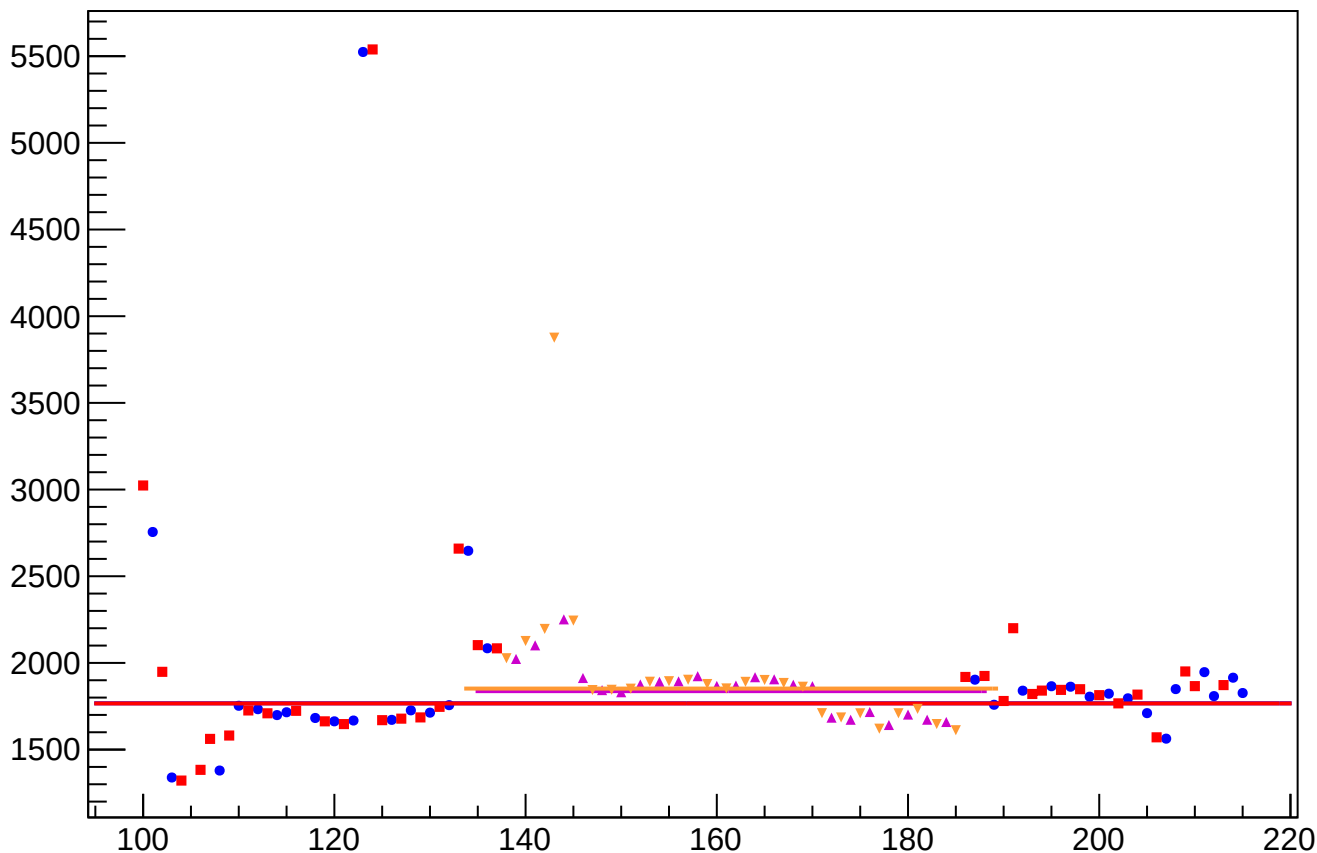
Right: 2241.365 $\pm$ 304.700 χ^2 /NDF: 47.1/65

In: 2974.418 $\pm$ 307.557 χ^2 /NDF:22.8/54

Out: 1334.792 $\pm$ 306.910 χ^2 /NDF:78.7/58

All: 2152.878 $\pm$ 217.247 χ^2 /NDF: 115.8/113

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1767.036 $\pm$ 0.303 χ^2 /NDF: 516761.6/31

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1766.180 $\pm$ 0.306 χ^2 /NDF: 570908.9/33

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

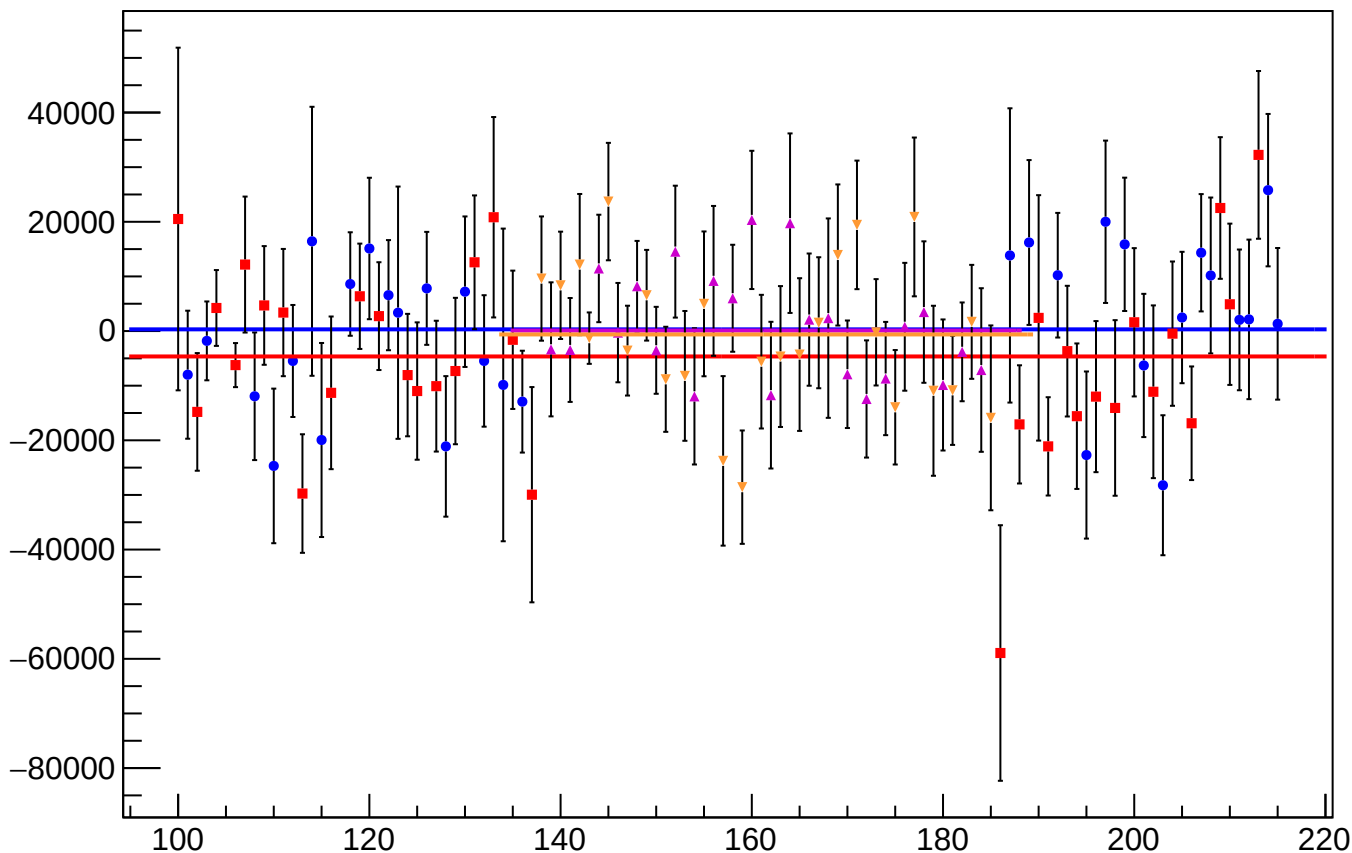
Right: 1766.612 $\pm$ 0.215 χ^2 /NDF: 1087674.5/65

In: 1801.116 $\pm$ 0.217 χ^2 /NDF: 743240.8/54

Out: 1808.831 $\pm$ 0.217 χ^2 /NDF: 1258919.6/58

All: 1804.982 $\pm$ 0.154 χ^2 /NDF: 2002791.0/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 311.329 ± 2210.263 χ^2/NDF : 33.8/31

Left Out: -619.372 ± 2069.686 χ^2/NDF : 30.1/24

Right Out: -4650.404 ± 1890.727 χ^2/NDF : 43.9/33

Left In: 93.334 ± 2293.826 χ^2/NDF : 14.6/22

Left: -299.532 ± 1536.638 χ^2/NDF : 44.8/47

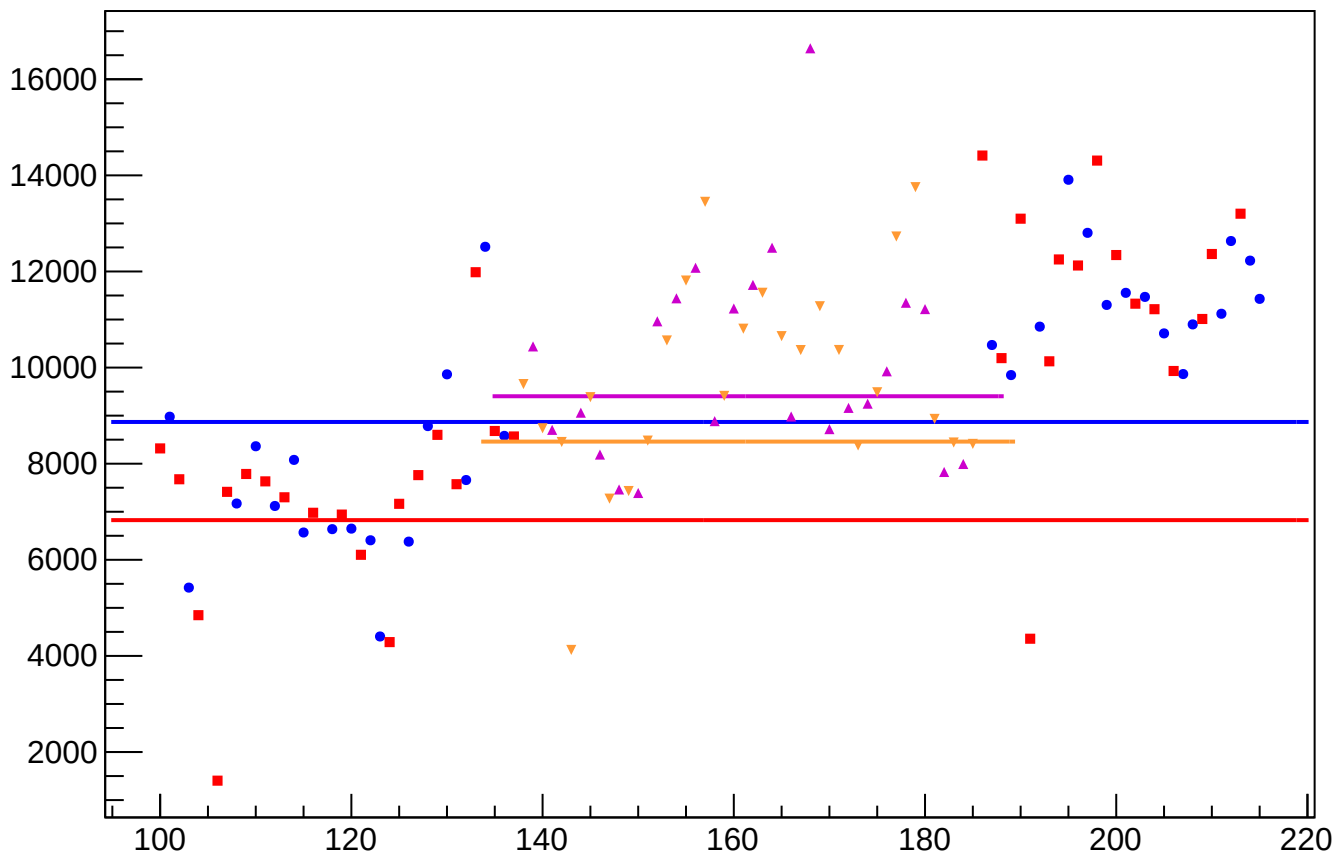
Right: -2553.807 ± 1436.762 χ^2/NDF : 80.7/65

In: 206.375 ± 1591.614 χ^2/NDF : 48.5/54

Out: -2816.668 ± 1395.934 χ^2/NDF : 76.1/58

All: -1502.305 ± 1049.477 χ^2/NDF : 126.6/111

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8868.400 $\pm$ 1.563 χ^2 /NDF: 2302078.6/31

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF: 3087200.5/24

Right Out: 6825.632 $\pm$ 1.337 χ^2 /NDF: 7862734.9/33

Left In: 9403.481 $\pm$ 1.622 χ^2 /NDF: 1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

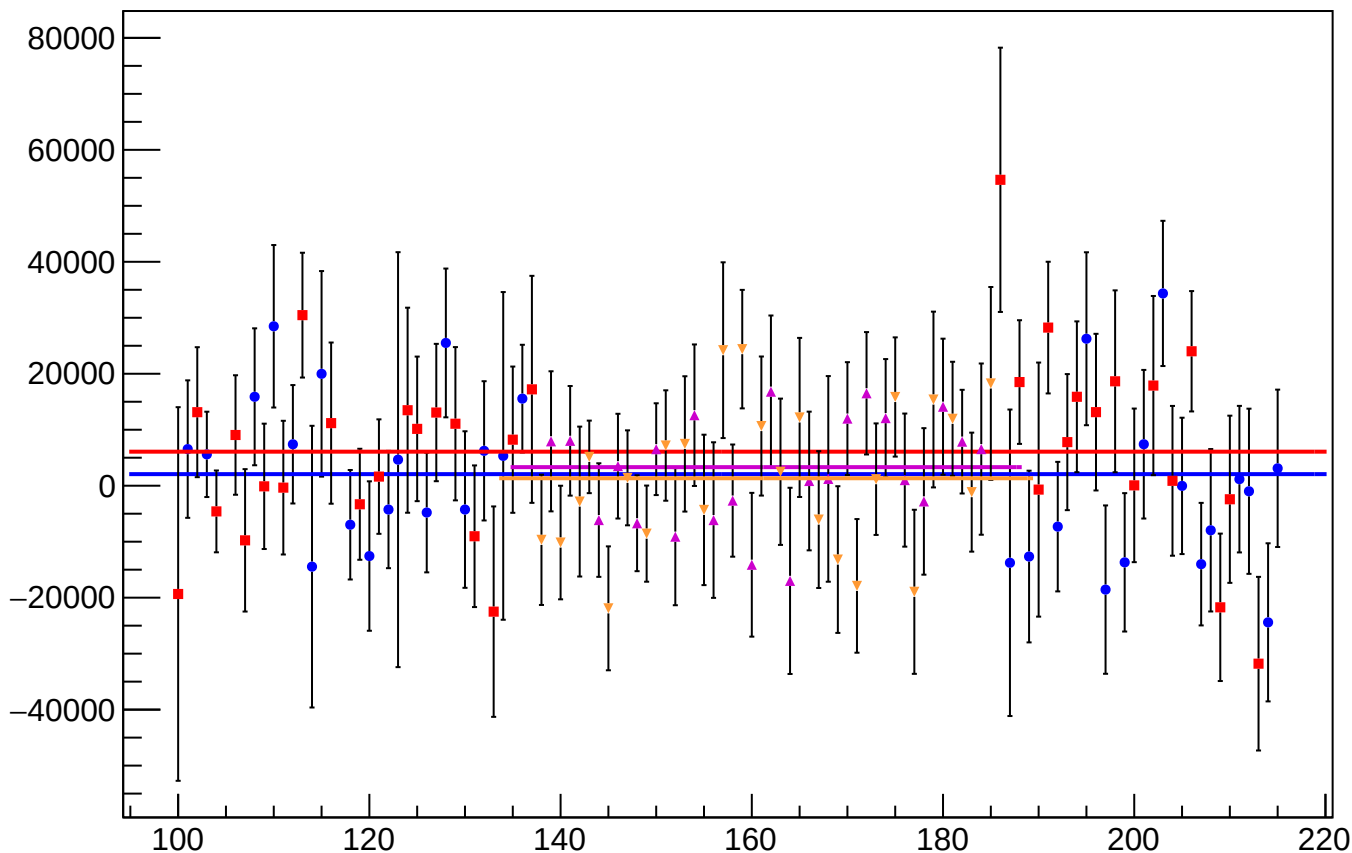
Right: 7688.810 $\pm$ 1.016 χ^2 /NDF: 11151302.5/65

In: 9126.017 $\pm$ 1.125 χ^2 /NDF: 3501158.8/54

Out: 7569.096 $\pm$ 0.987 χ^2 /NDF: 11629720.7/58

All: 8246.016 $\pm$ 0.742 χ^2 /NDF: 16212573.1/131

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2068.296+/-2277.345 χ^2/NDF : 35.3/31

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 6080.419+/-2202.608 χ^2/NDF : 41.1/33

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

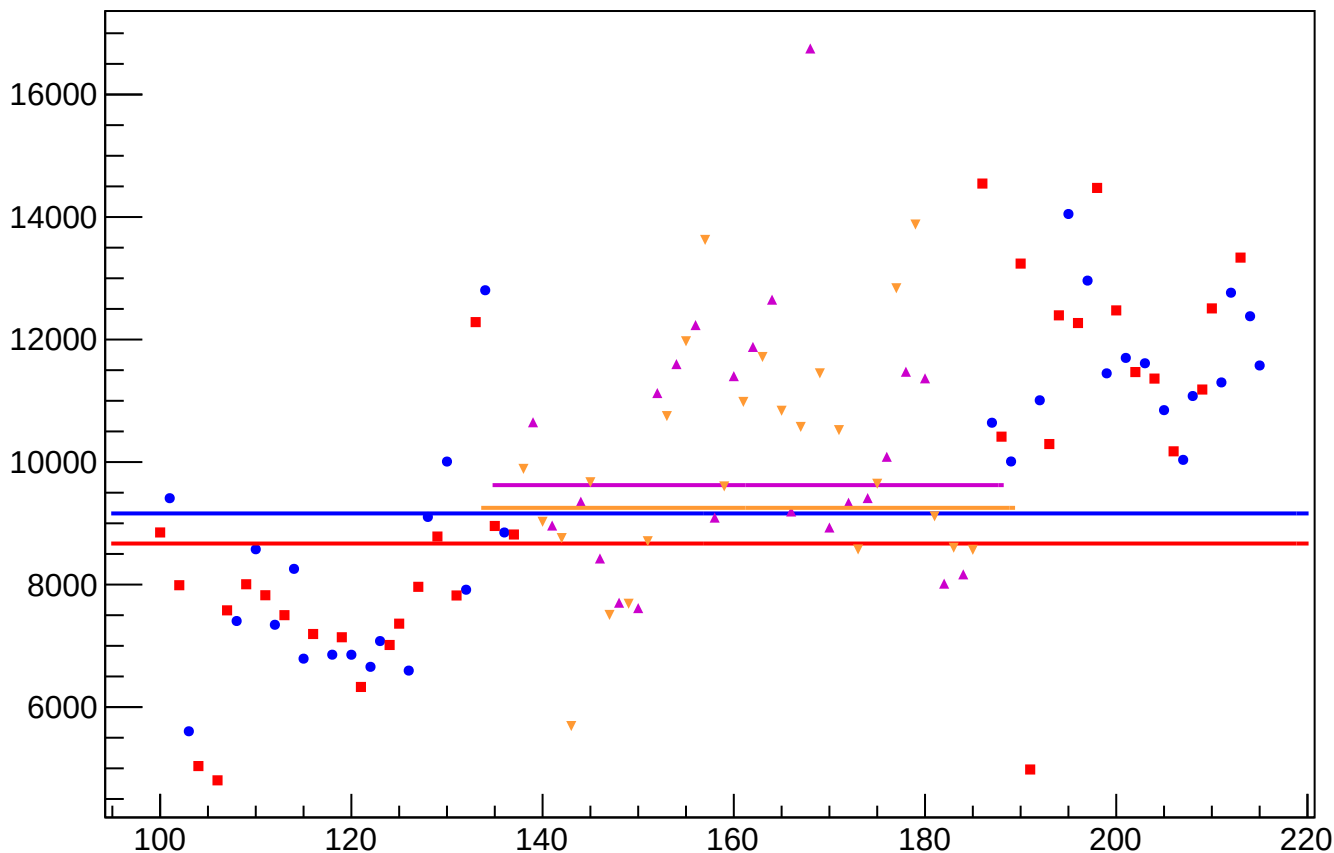
Right: 4141.271+/-1583.241 χ^2/NDF : 77.9/65

In: 2674.452+/-1633.566 χ^2/NDF : 49.2/54

Out: 3718.583+/-1561.398 χ^2/NDF : 71.4/58

All: 3220.091+/-1128.726 χ^2/NDF : 120.8/113

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9161.393 ± 1.610 $\chi^2/\text{NDF}: 2068761.1/31$

Left Out: 9252.712 ± 1.565 $\chi^2/\text{NDF}: 1597668.9/24$

Right Out: 8670.060 ± 1.557 $\chi^2/\text{NDF}: 2868828.6/33$

Left In: 9623.485 ± 1.658 $\chi^2/\text{NDF}: 1069924.0/22$

Left: 9427.467 ± 1.138 $\chi^2/\text{NDF}: 2694036.4/47$

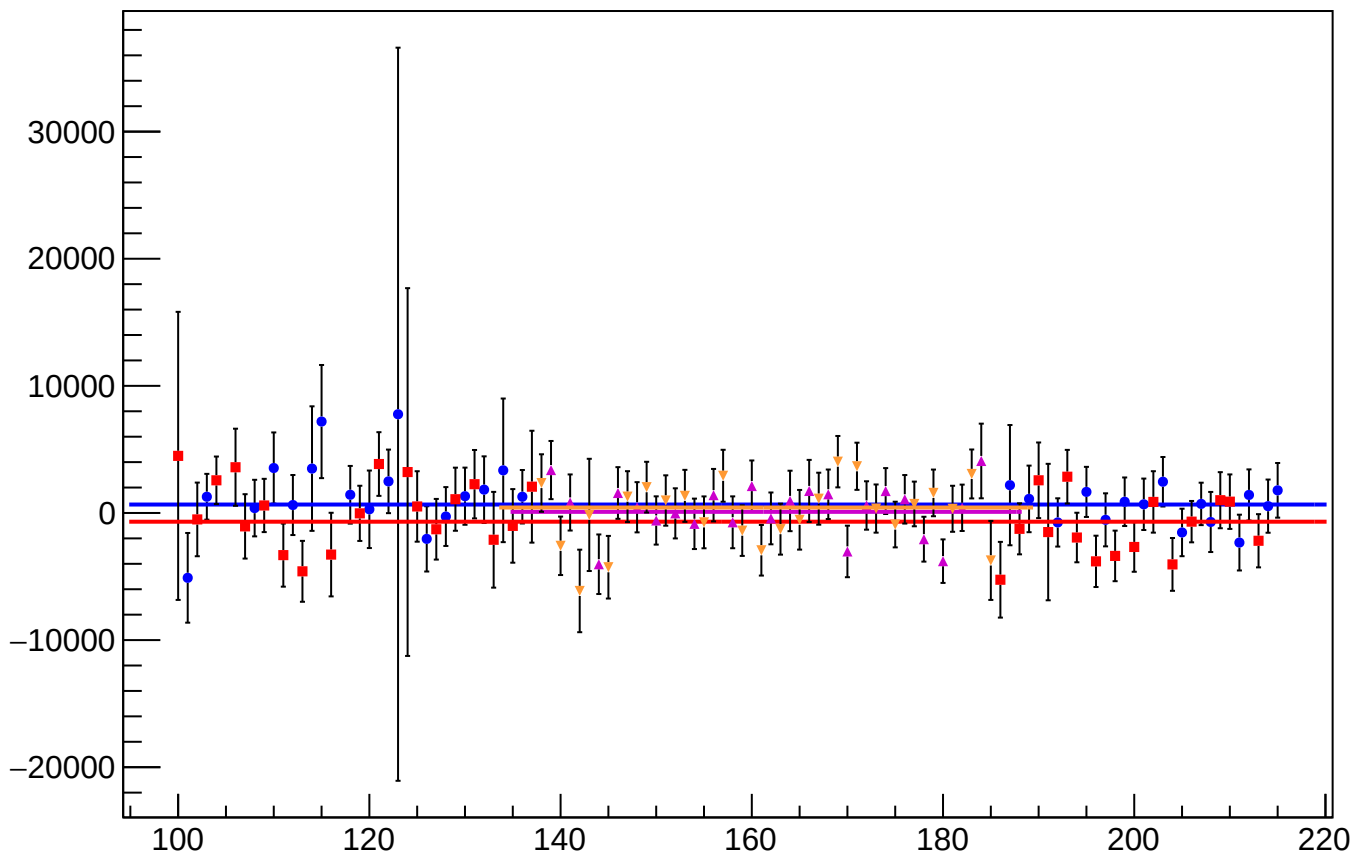
Right: 8907.512 ± 1.119 $\chi^2/\text{NDF}: 4985694.9/65$

In: 9385.719 ± 1.155 $\chi^2/\text{NDF}: 3178660.6/54$

Out: 8959.890 ± 1.104 $\chi^2/\text{NDF}: 4536126.9/58$

All: 9163.182 ± 0.798 $\chi^2/\text{NDF}: 7785810.7/11$

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 663.768 $\pm$ 413.293 χ^2 /NDF: 15.1/31

Left Out: 429.447 $\pm$ 416.378 χ^2 /NDF: 28.7/24

Right Out: -686.840 $\pm$ 417.108 χ^2 /NDF: 32.8/33

Left In: 88.373 $\pm$ 421.957 χ^2 /NDF: 21.0/22

Left: 261.180 $\pm$ 296.376 χ^2 /NDF: 50.0/47

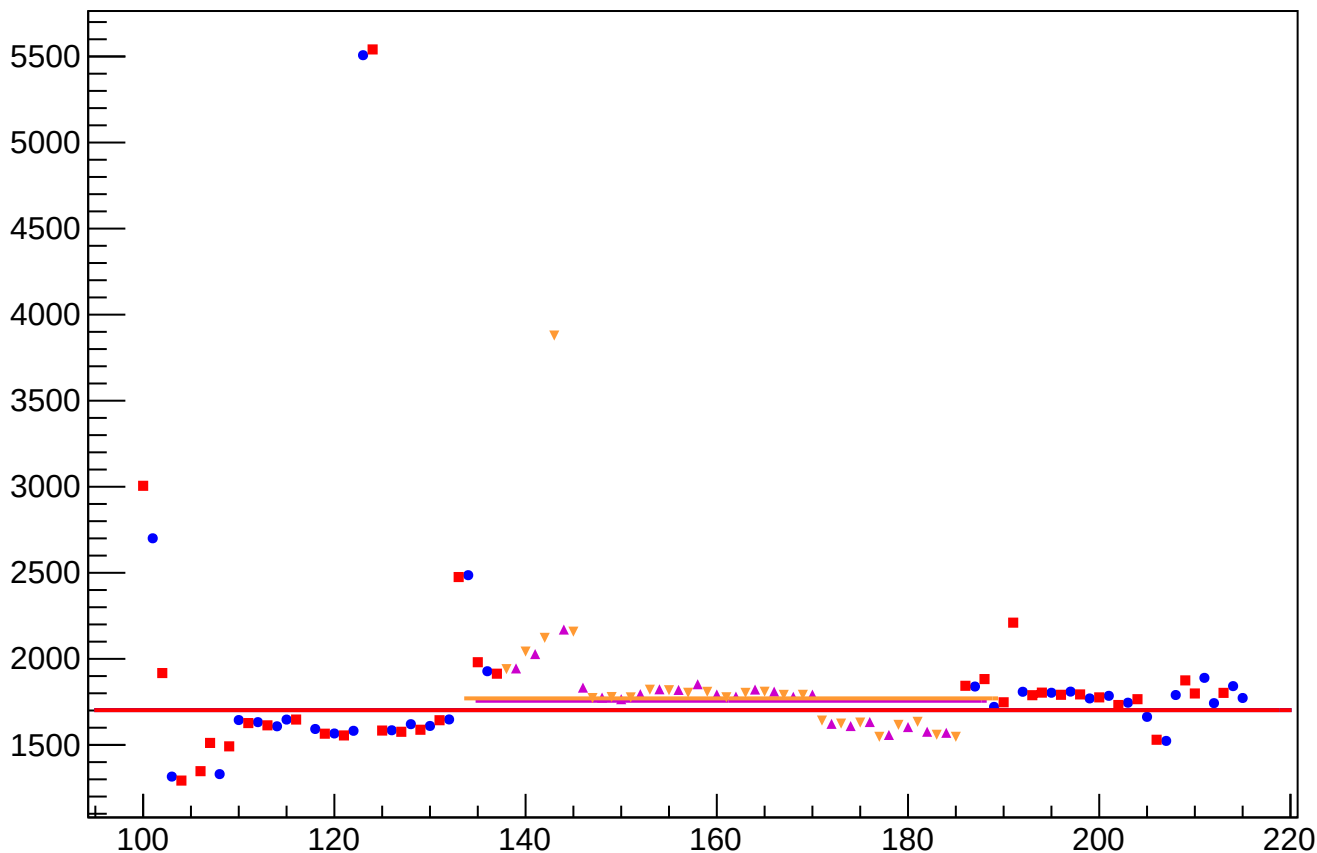
Right: -5.331 $\pm$ 293.582 χ^2 /NDF: 53.1/65

In: 382.039 $\pm$ 295.258 χ^2 /NDF: 37.0/54

Out: -127.718 $\pm$ 294.682 χ^2 /NDF: 65.1/58

All: 126.662 $\pm$ 208.575 χ^2 /NDF: 103.5/113

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1702.383 $\pm$ 0.292 χ^2 /NDF: 510827.0/31

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1701.907 $\pm$ 0.295 χ^2 /NDF: 579161.5/33

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

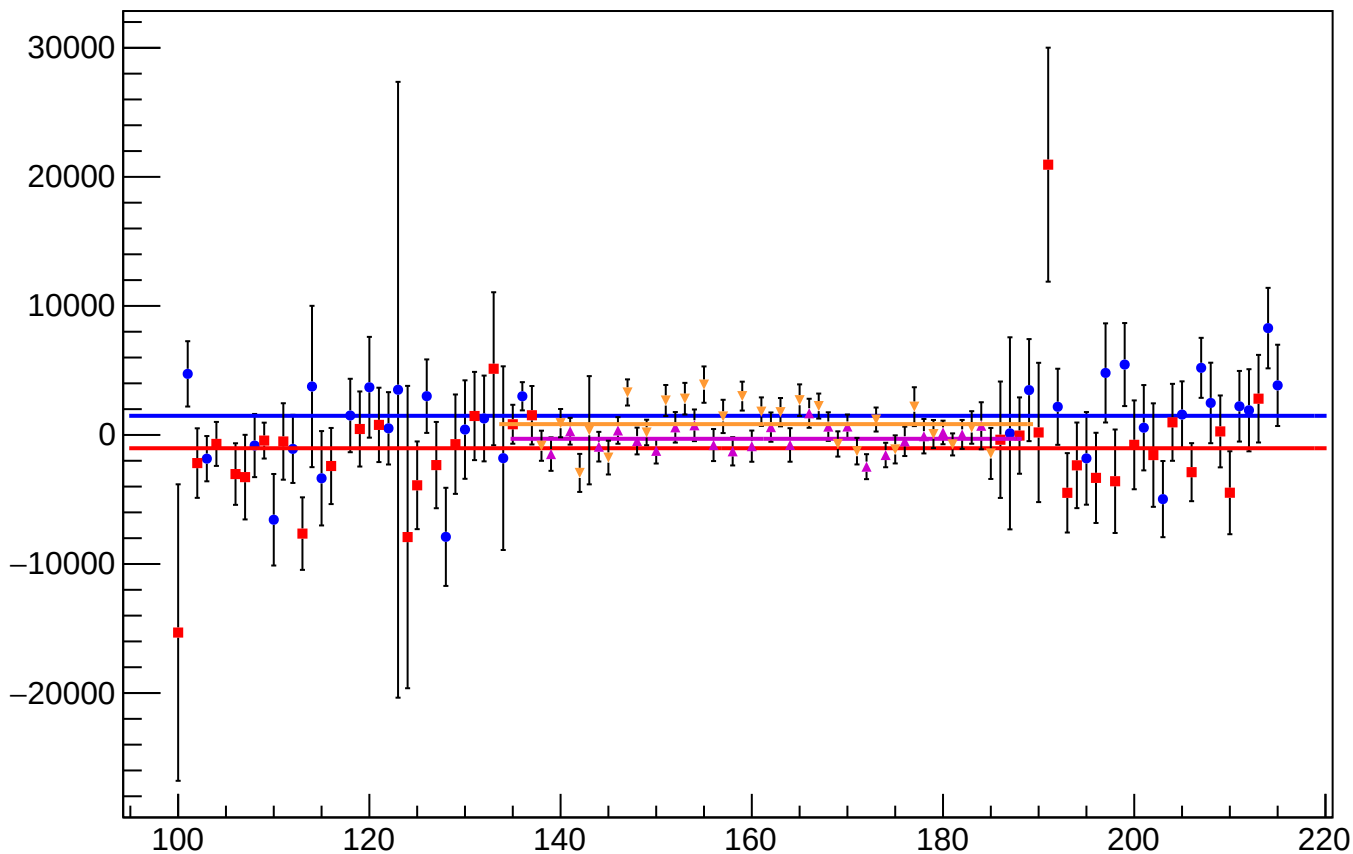
Right: 1702.147 $\pm$ 0.208 χ^2 /NDF: 1089989.8/65

In: 1728.941 $\pm$ 0.209 χ^2 /NDF: 750770.6/54

Out: 1736.205 $\pm$ 0.208 χ^2 /NDF: 1305697.7/58

All: 1732.580 $\pm$ 0.147 χ^2 /NDF: 2057074.8/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1483.921 ± 498.955 χ^2/NDF : 39.5/31

Left Out: 839.344 ± 230.465 χ^2/NDF : 54.4/24

Right Out: -1029.372 ± 488.666 χ^2/NDF : 27.3/33

Left In: -298.801 ± 231.400 χ^2/NDF : 18.3/22

Left: 272.574 ± 163.293 χ^2/NDF : 84.9/47

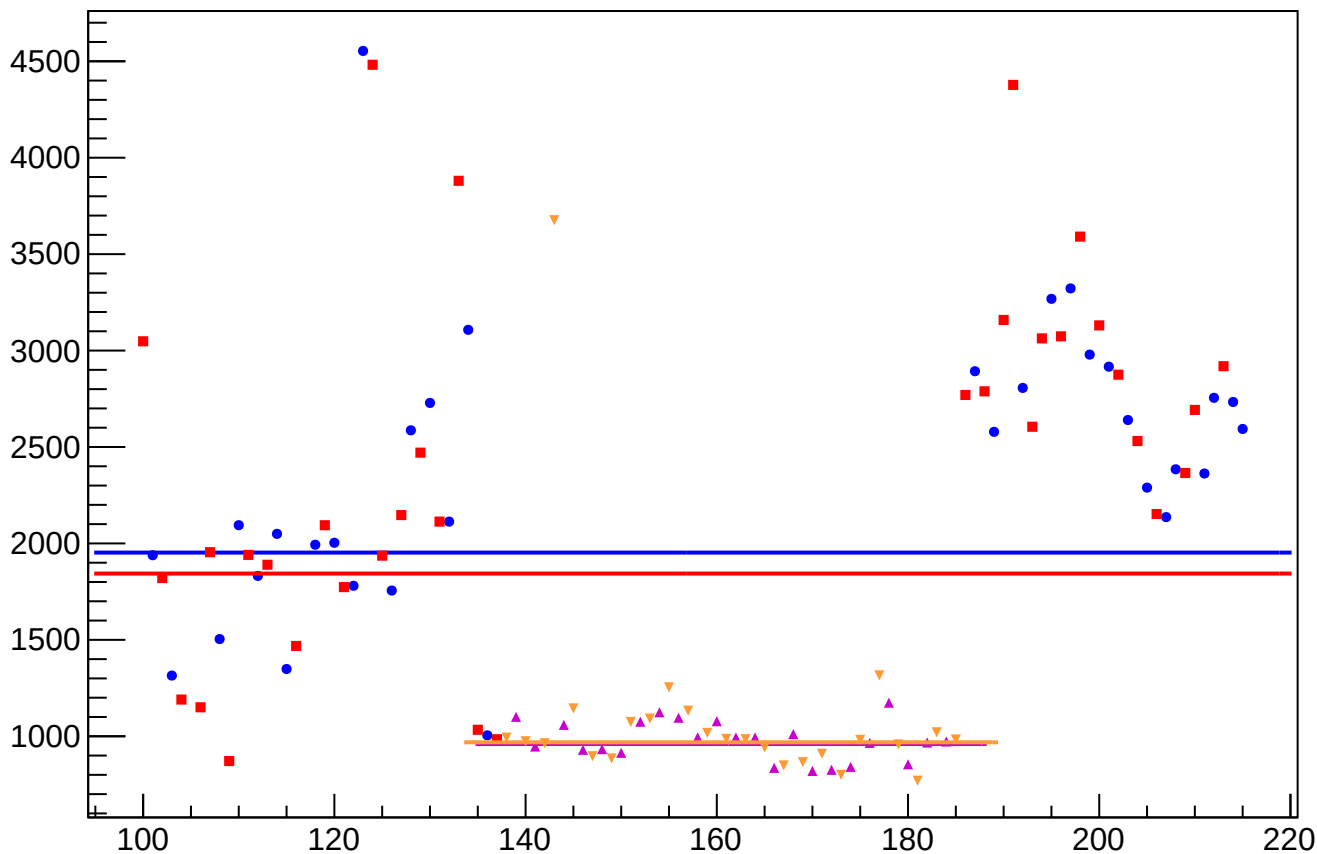
Right: 201.094 ± 349.120 χ^2/NDF : 79.8/65

In: 16.758 ± 209.923 χ^2/NDF : 68.4/54

Out: 499.322 ± 208.446 χ^2/NDF : 93.7/58

All: 259.743 ± 147.913 χ^2/NDF : 164.7/113

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1952.471+/-0.353 χ^2/NDF : 3853795.5/31

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1843.683+/-0.346 χ^2/NDF : 5349446.4/33

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

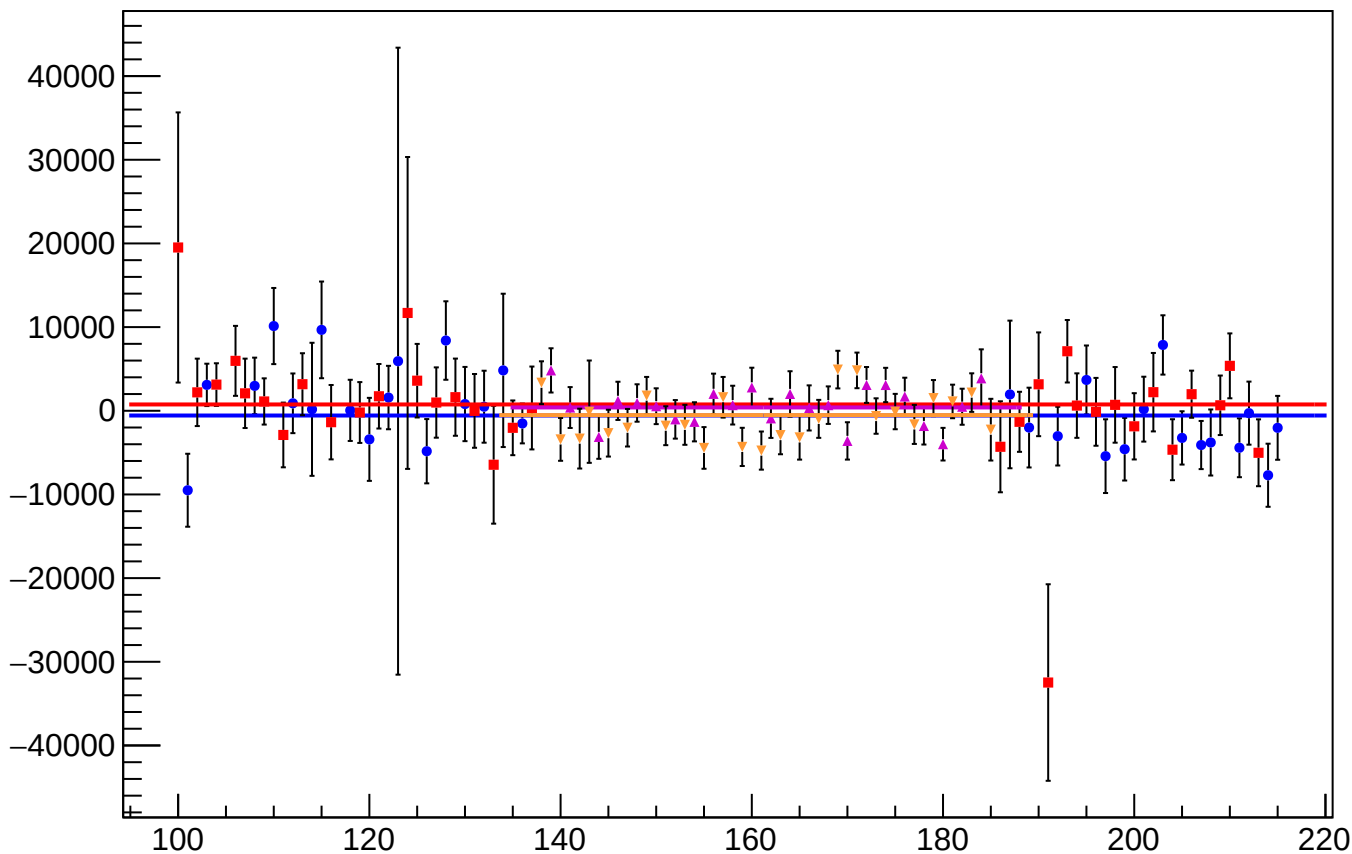
Right: 1896.943+/-0.247 χ^2/NDF : 9251770.1/65

In: 1135.516+/-0.148 χ^2/NDF : 10739913.4/54

Out: 1127.917+/-0.147 χ^2/NDF : 11988448.4/58

All: 1131.690+/-0.105 χ^2/NDF : 22729681.5/115

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -566.497 ± 689.893 χ^2/NDF : 40.1/31

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 755.771 ± 694.085 χ^2/NDF : 27.1/33

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

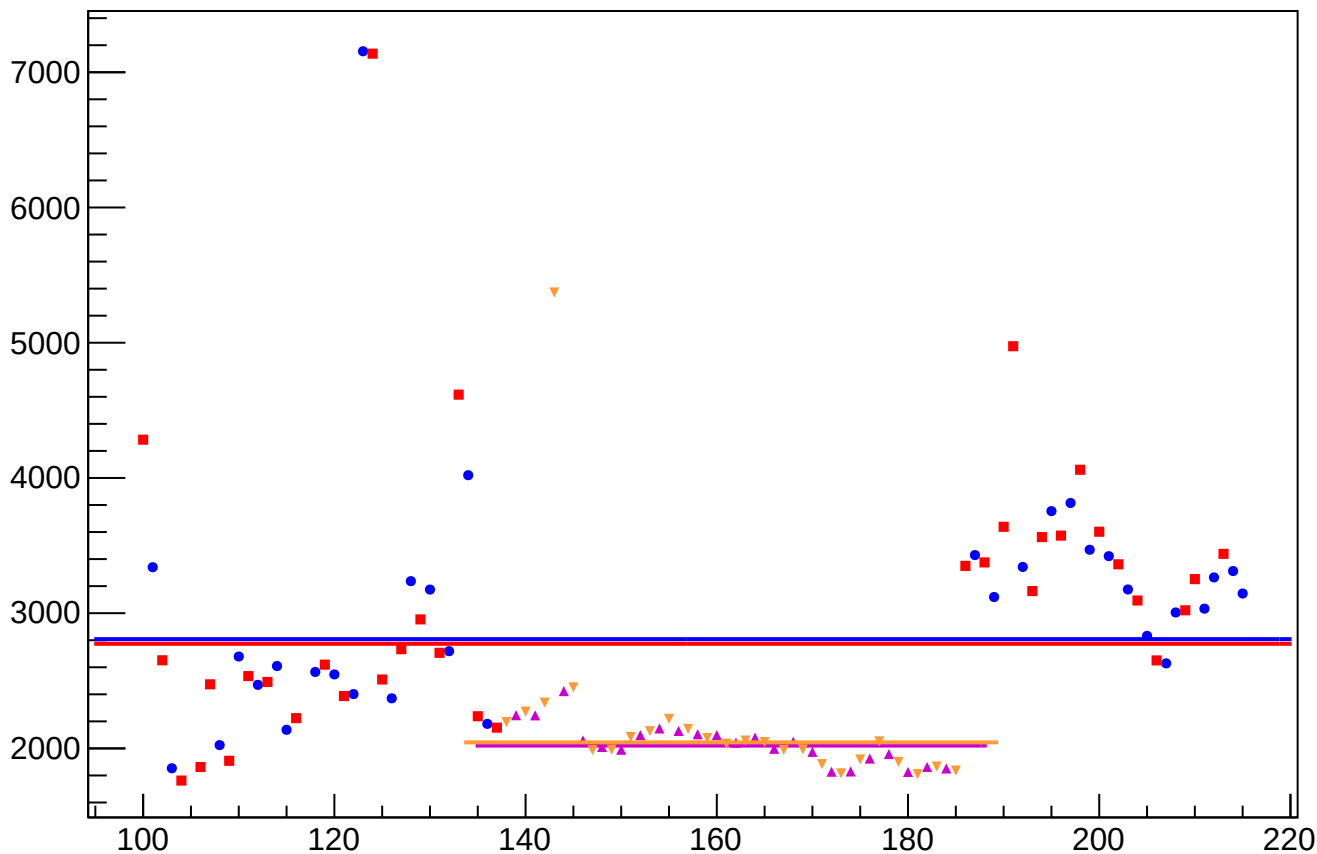
Right: 90.631 ± 489.303 χ^2/NDF : 69.0/65

In: 78.544 ± 396.792 χ^2/NDF : 63.2/54

Out: -103.988 ± 395.616 χ^2/NDF : 63.4/58

All: -12.993 ± 280.158 χ^2/NDF : 126.7/113

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2808.005 $\pm$ 0.488 χ^2 /NDF: 1275472.5/31

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2773.623 $\pm$ 0.491 χ^2 /NDF: 1818654.1/33

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

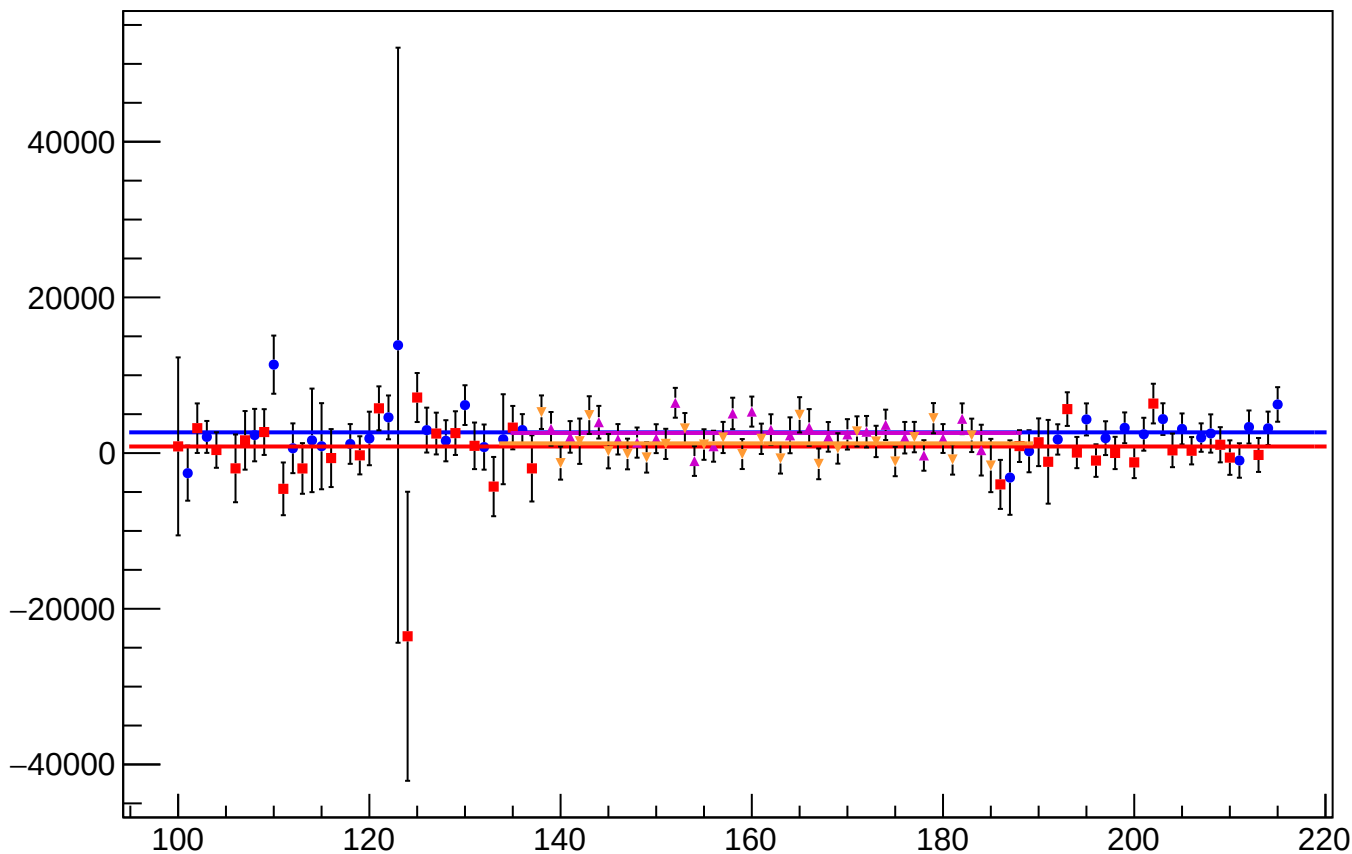
Right: 2790.918 $\pm$ 0.346 χ^2 /NDF: 3096595.3/65

In: 2281.207 $\pm$ 0.281 χ^2 /NDF: 3191577.7/54

Out: 2281.529 $\pm$ 0.280 χ^2 /NDF: 4096460.2/58

All: 2281.369 $\pm$ 0.198 χ^2 /NDF: 7288038.5/11

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2664.687 $\pm$ 448.142 χ^2 /NDF: 21.4/31

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 847.353 $\pm$ 457.903 χ^2 /NDF: 32.7/33

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

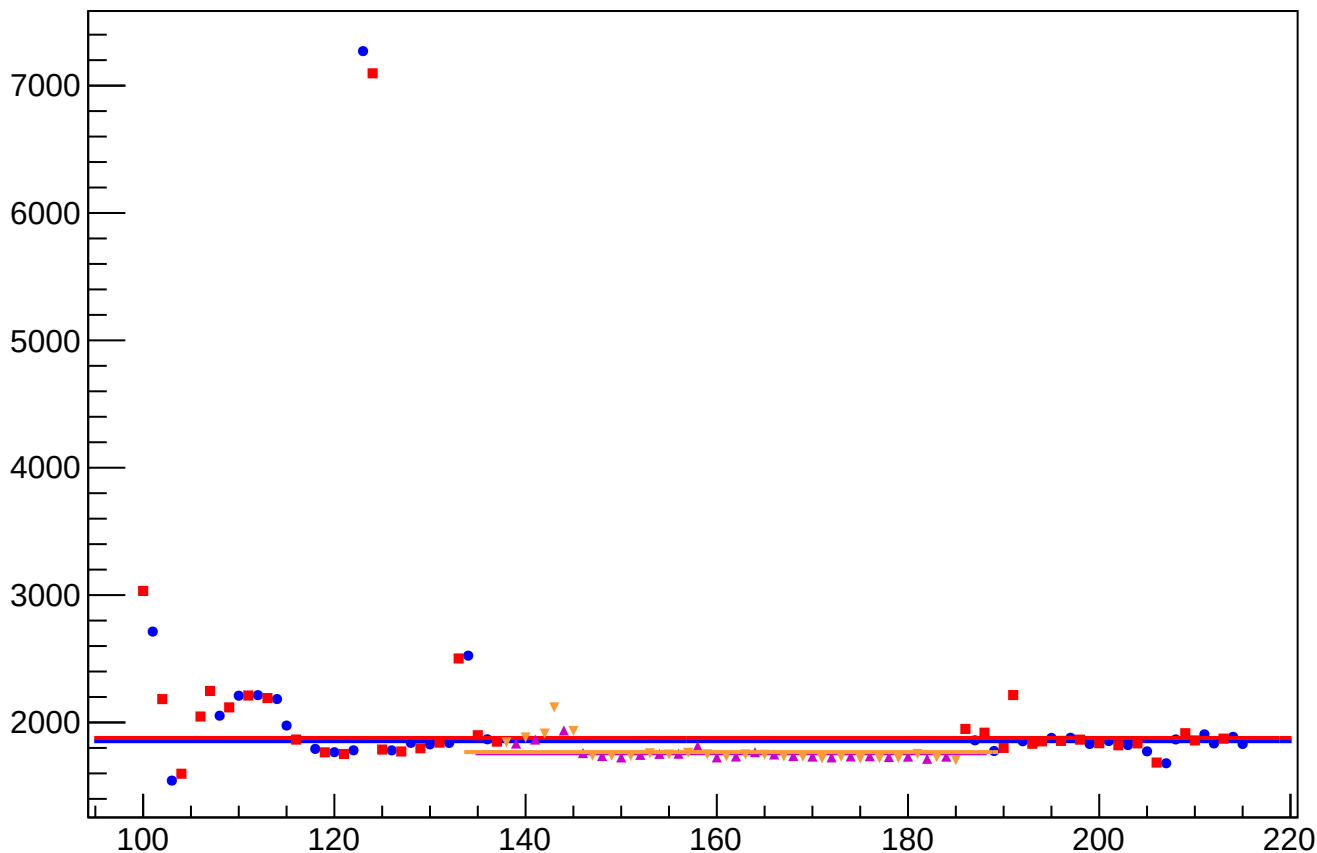
Right: 1775.596 $\pm$ 320.279 χ^2 /NDF: 62.2/65

In: 2623.433 $\pm$ 307.036 χ^2 /NDF:38.9/54

Out: 1069.584 $\pm$ 306.474 χ^2 /NDF:56.2/58

All: 1845.085 $\pm$ 216.908 χ^2 /NDF: 107.9/113

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1852.849 $\pm$ 0.317 χ^2 /NDF: 319647.5/31

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1878.357 $\pm$ 0.324 χ^2 /NDF: 409784.7/33

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

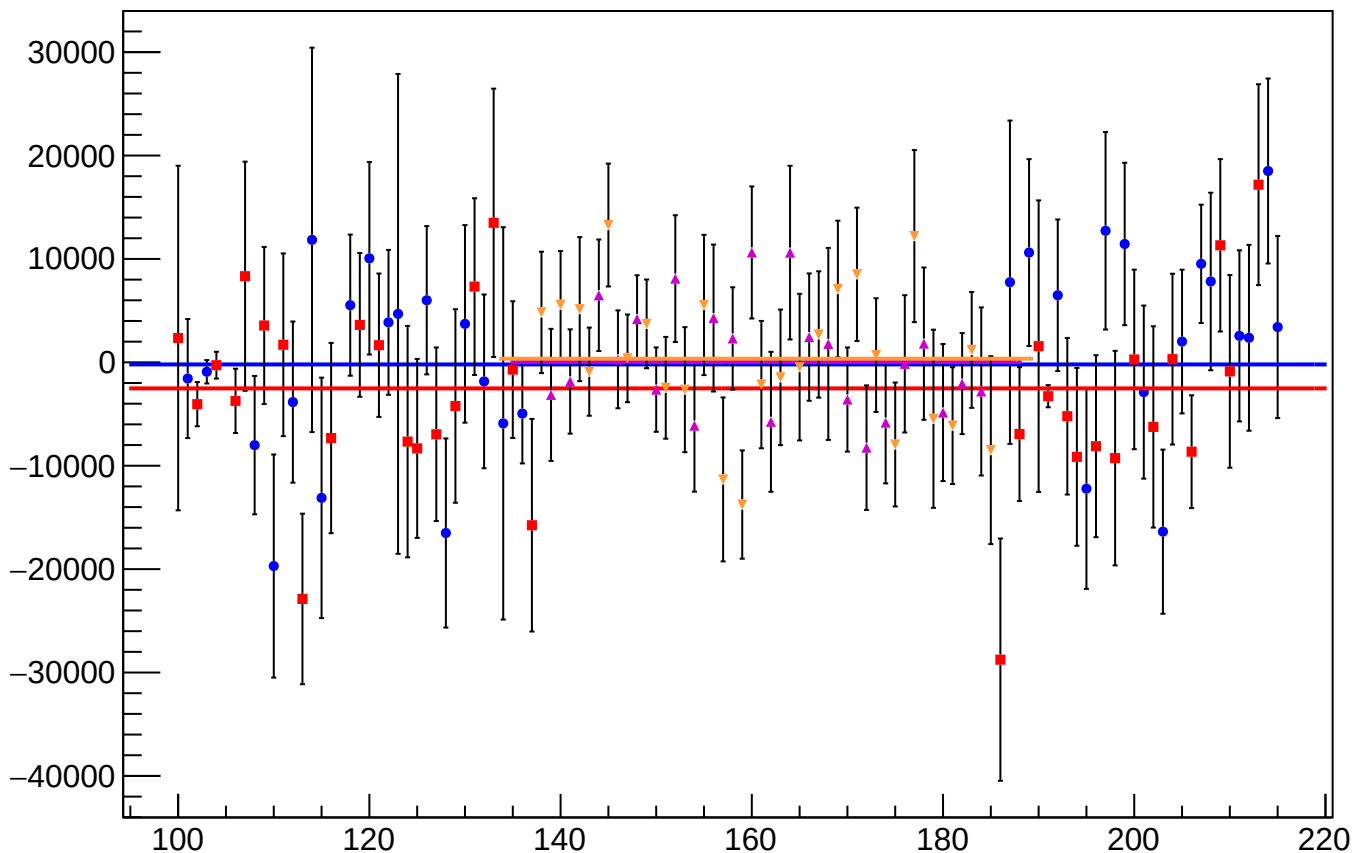
Right: 1865.336 $\pm$ 0.226 χ^2 /NDF: 732604.3/65

In: 1802.563 $\pm$ 0.217 χ^2 /NDF: 396914.0/54

Out: 1817.202 $\pm$ 0.217 χ^2 /NDF: 552194.8/58

All: 1809.898 $\pm$ 0.153 χ^2 /NDF: 951386.9/113

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -203.227 $\pm$ 894.342 χ^2 /NDF: 35.4/31

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2519.739 $\pm$ 674.489 χ^2 /NDF: 34.8/33

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

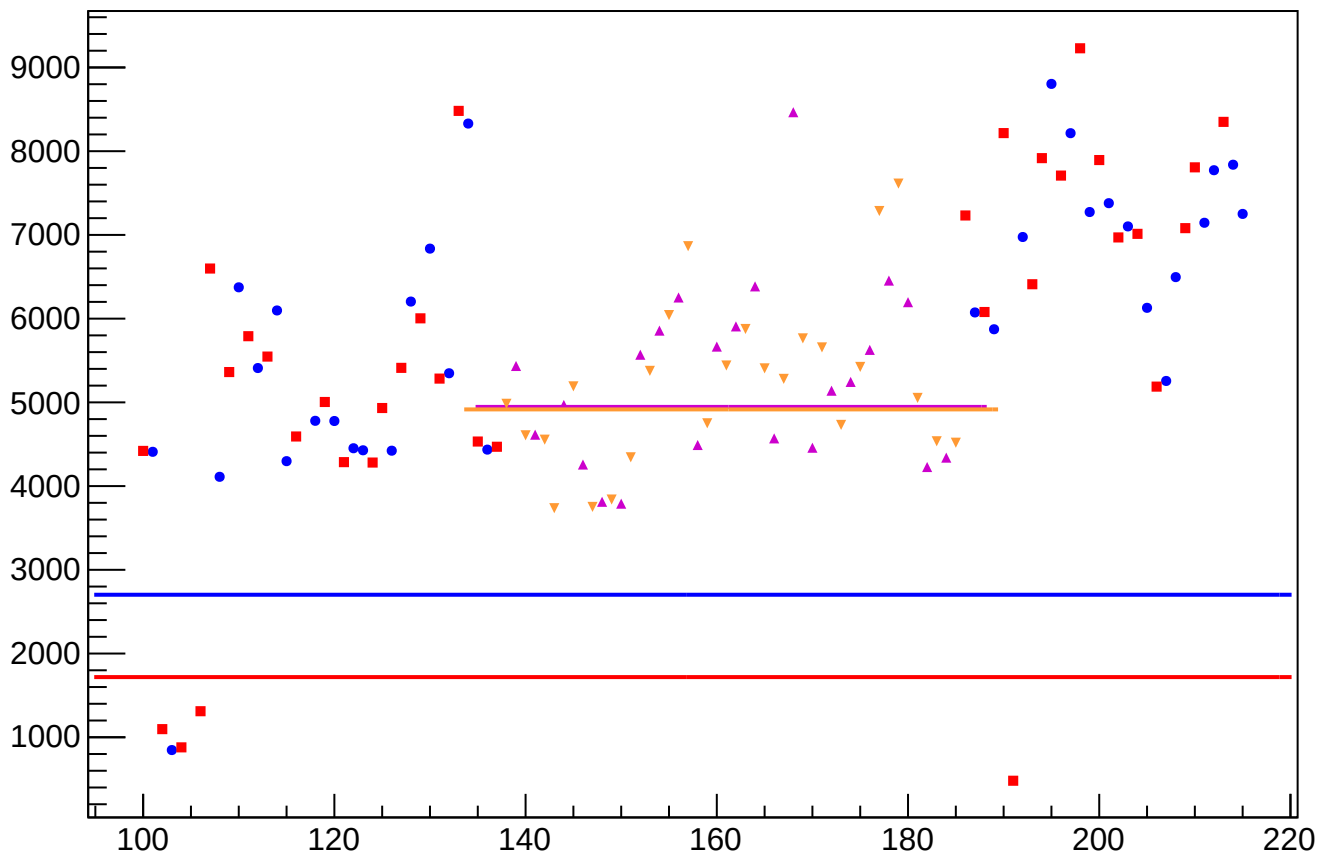
Right: -1679.861 $\pm$ 538.511 χ^2 /NDF: 74.4/65

In: -116.846 $\pm$ 718.682 χ^2 /NDF:51.4/54

Out: -1803.655 $\pm$ 584.350 χ^2 /NDF:67.1/58

All: -1132.318 $\pm$ 453.392 χ^2 /NDF: 121.9/113

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2702.255+/-0.632

χ^2/NDF : 16153306.8/31

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 2075.298+/-0.381

χ^2/NDF : 38066285.9/65

Right Out: 1718.698+/-0.477

χ^2/NDF : 20371063.6/33

In: 3497.030+/-0.508

χ^2/NDF : 21800258.0/54

Out: 2516.144+/-0.413

χ^2/NDF : 32766010.1/58

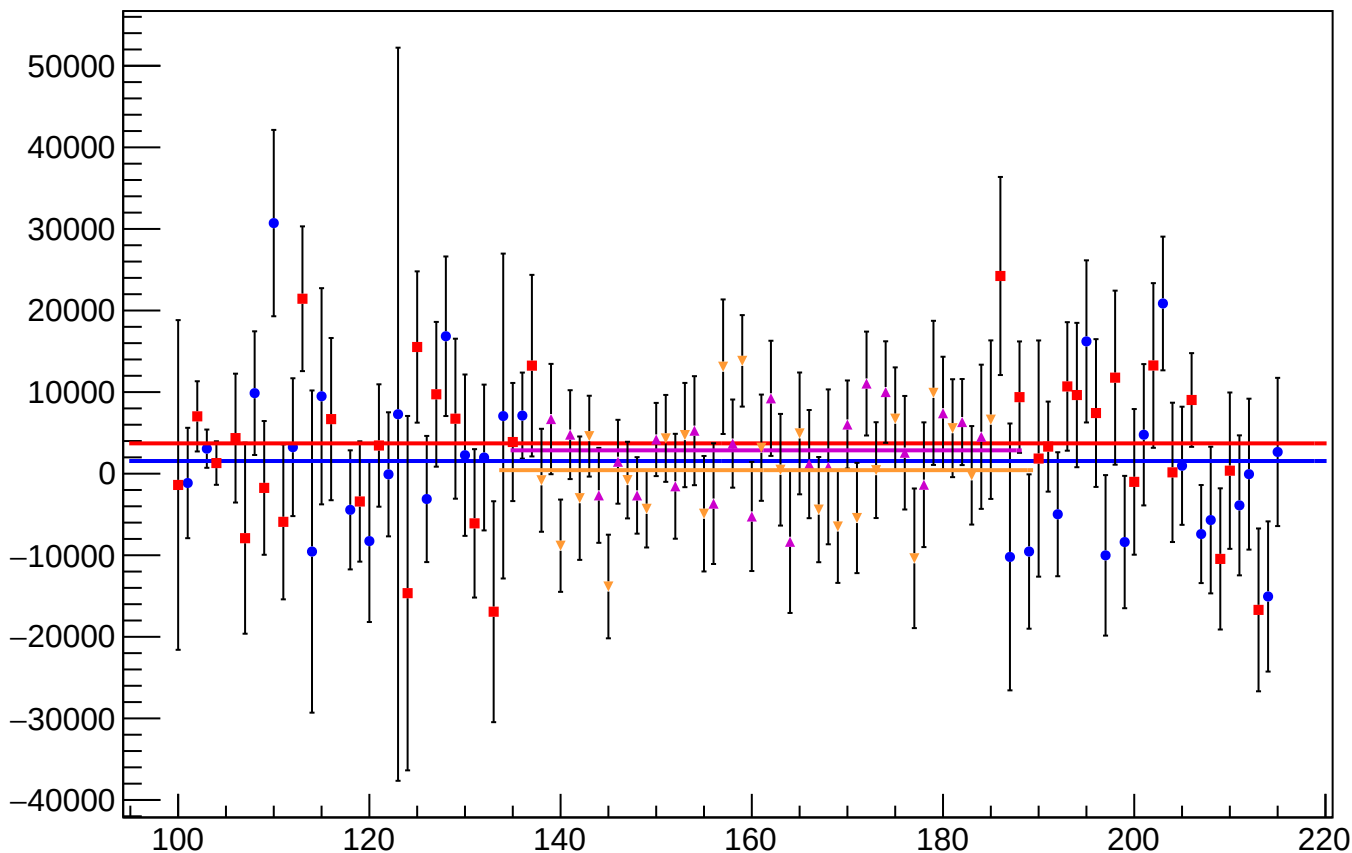
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2906.529+/-0.321

χ^2/NDF : 56809092.4/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1551.841+/-1301.299 χ^2/NDF : 34.7/31

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3713.905+/-1287.685 χ^2/NDF : 30.8/33

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

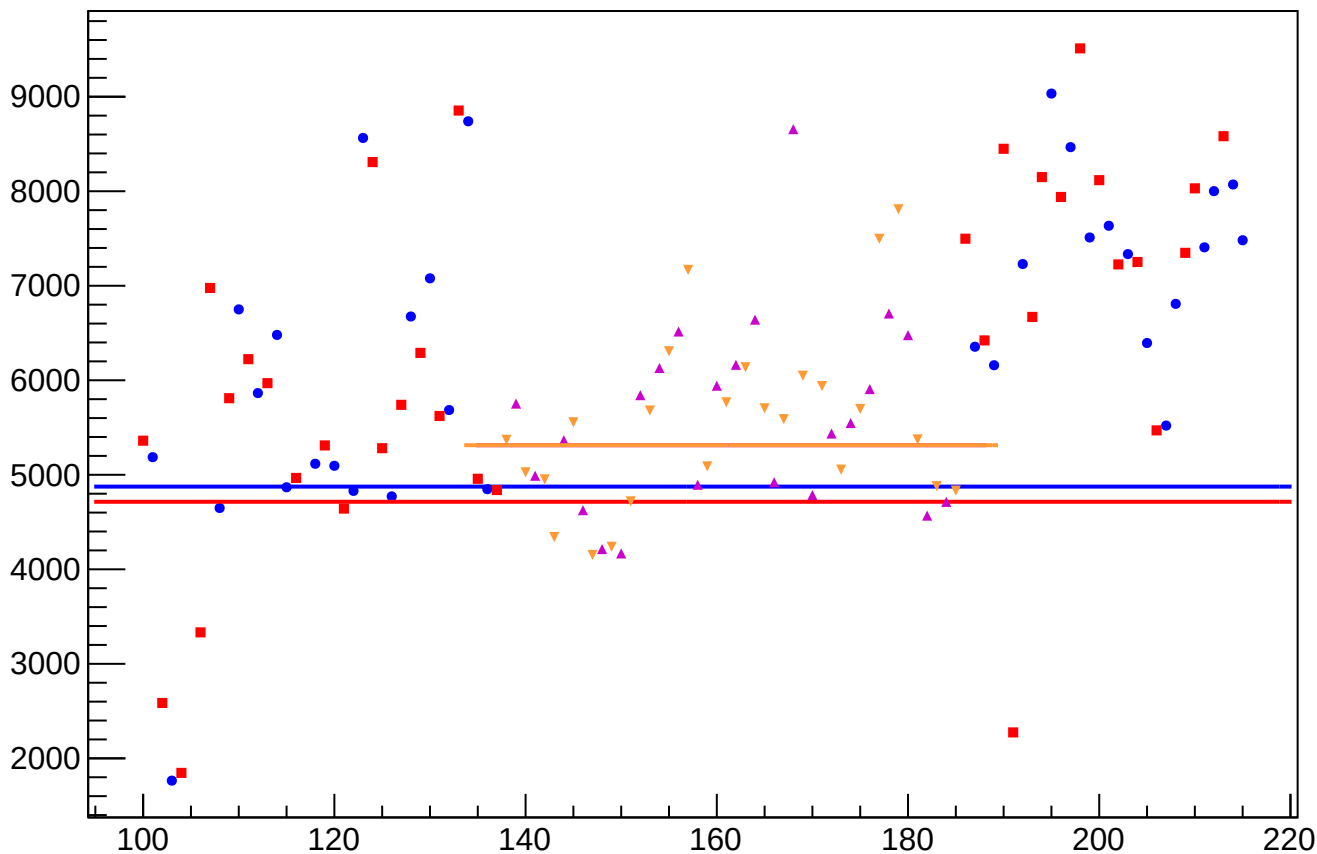
Right: 2644.242+/-915.306 χ^2/NDF : 66.9/65

In: 2210.572+/-916.969 χ^2/NDF : 48.1/54

Out: 2034.461+/-899.952 χ^2/NDF : 61.2/58

All: 2120.867+/-642.294 χ^2/NDF : 109.3/113

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4875.131 ± 0.920 $\chi^2/\text{NDF}: 6364595.8/31$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 4714.573 ± 0.907 $\chi^2/\text{NDF}: 6637021.9/33$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

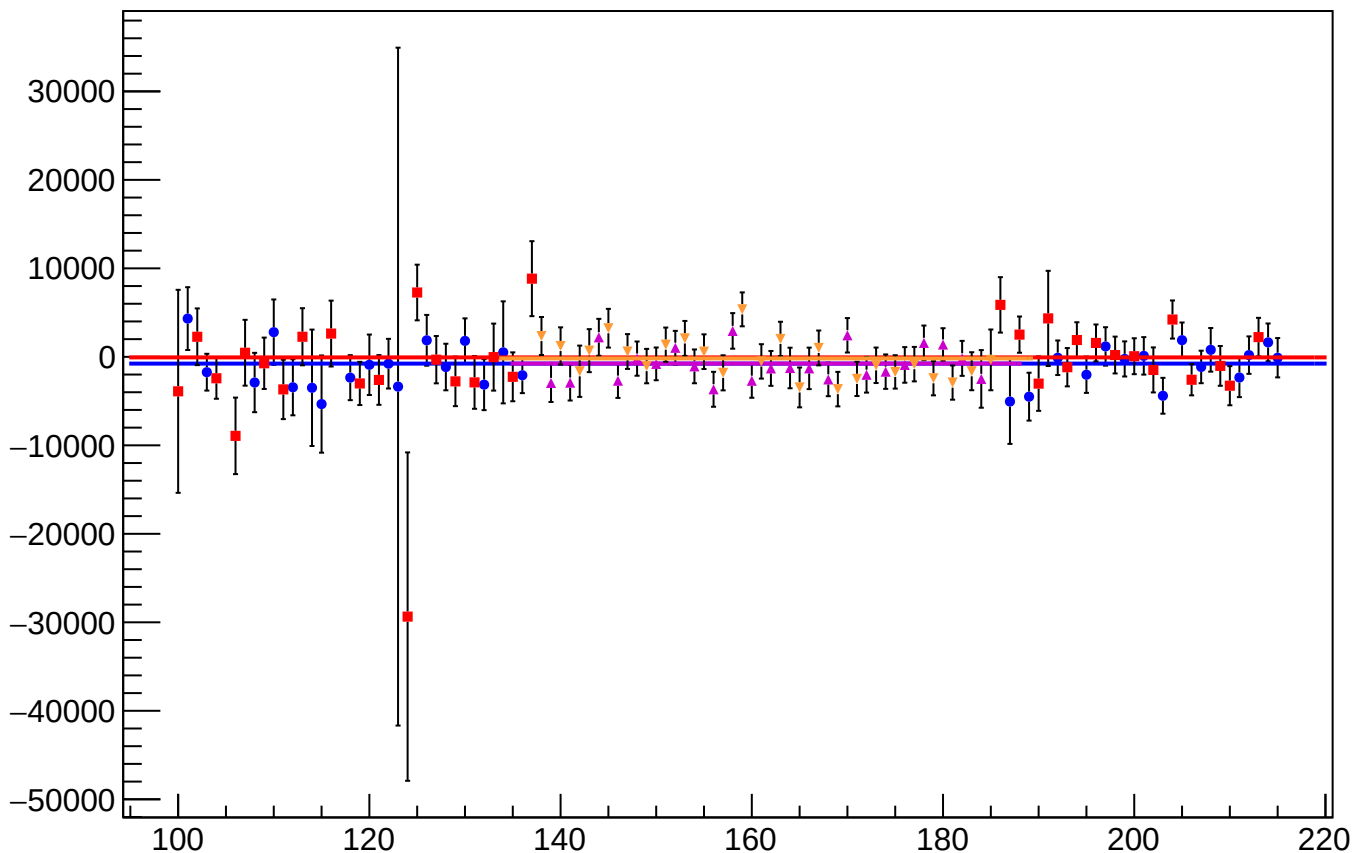
Right: 4793.663 ± 0.646 $\chi^2/\text{NDF}: 13017066.5/65$

In: 5095.510 ± 0.648 $\chi^2/\text{NDF}: 7435930.2/54$

Out: 5019.419 ± 0.635 $\chi^2/\text{NDF}: 7753332.8/58$

All: 5056.672 ± 0.454 $\chi^2/\text{NDF}: 15196292.4/110$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -764.540 $\pm$ 447.803 χ^2 /NDF: 20.3/31

Left Out: -179.794 $\pm$ 410.976 χ^2 /NDF:29.3/24

Right Out: -62.216 $\pm$ 457.462 χ^2 /NDF: 43.6/33

Left In: -759.753 $\pm$ 419.905 χ^2 /NDF:20.3/22

Left: -463.542 $\pm$ 293.710 χ^2 /NDF: 50.5/47

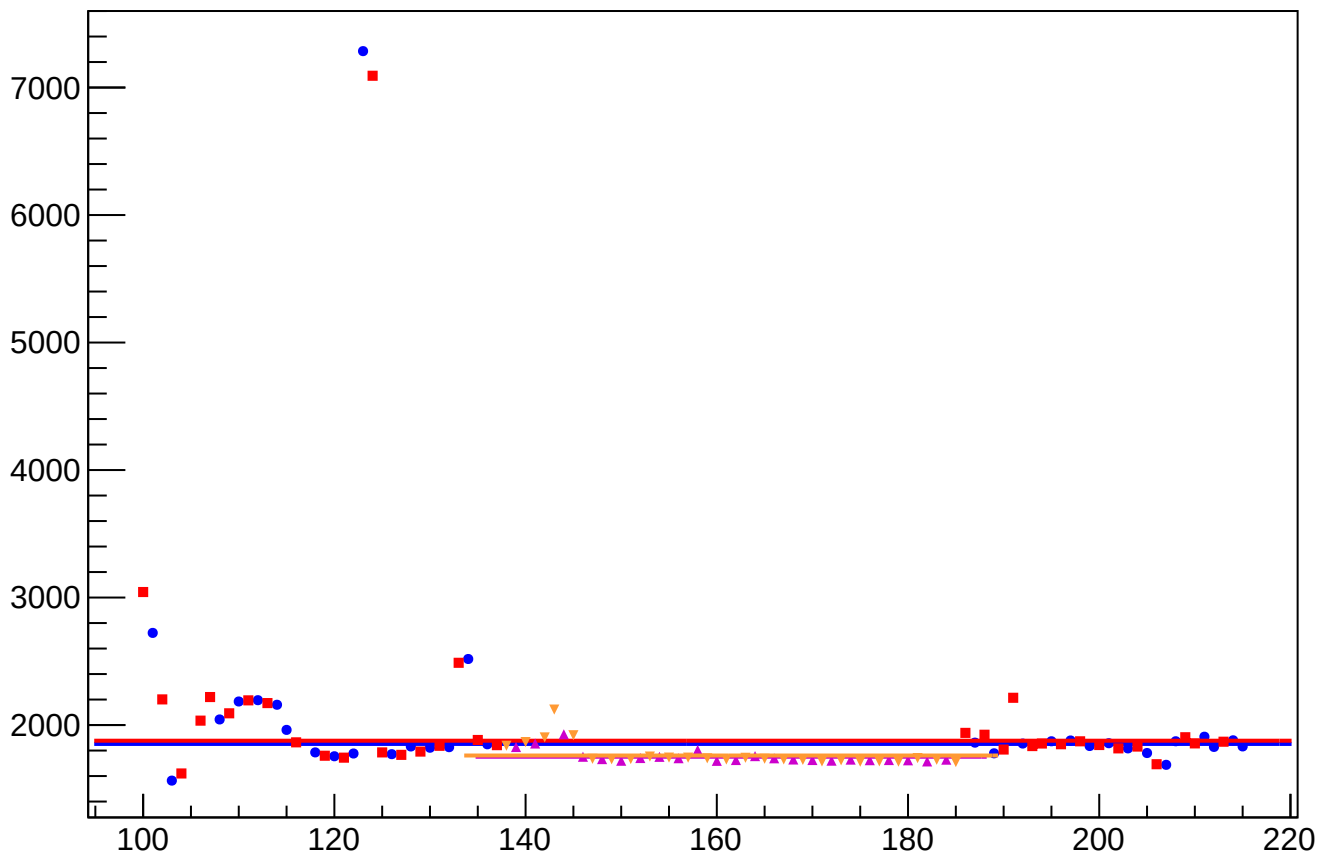
Right: -420.870 $\pm$ 320.005 χ^2 /NDF: 65.1/65

In: -761.993 $\pm$ 306.306 χ^2 /NDF:40.6/54

Out: -127.280 $\pm$ 305.722 χ^2 /NDF:72.9/58

All: -444.031 $\pm$ 216.384 χ^2 /NDF: 115.6/113

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.833+/-0.317 χ^2/NDF : 307080.5/31

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1877.175+/-0.323 χ^2/NDF : 394860.7/33

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

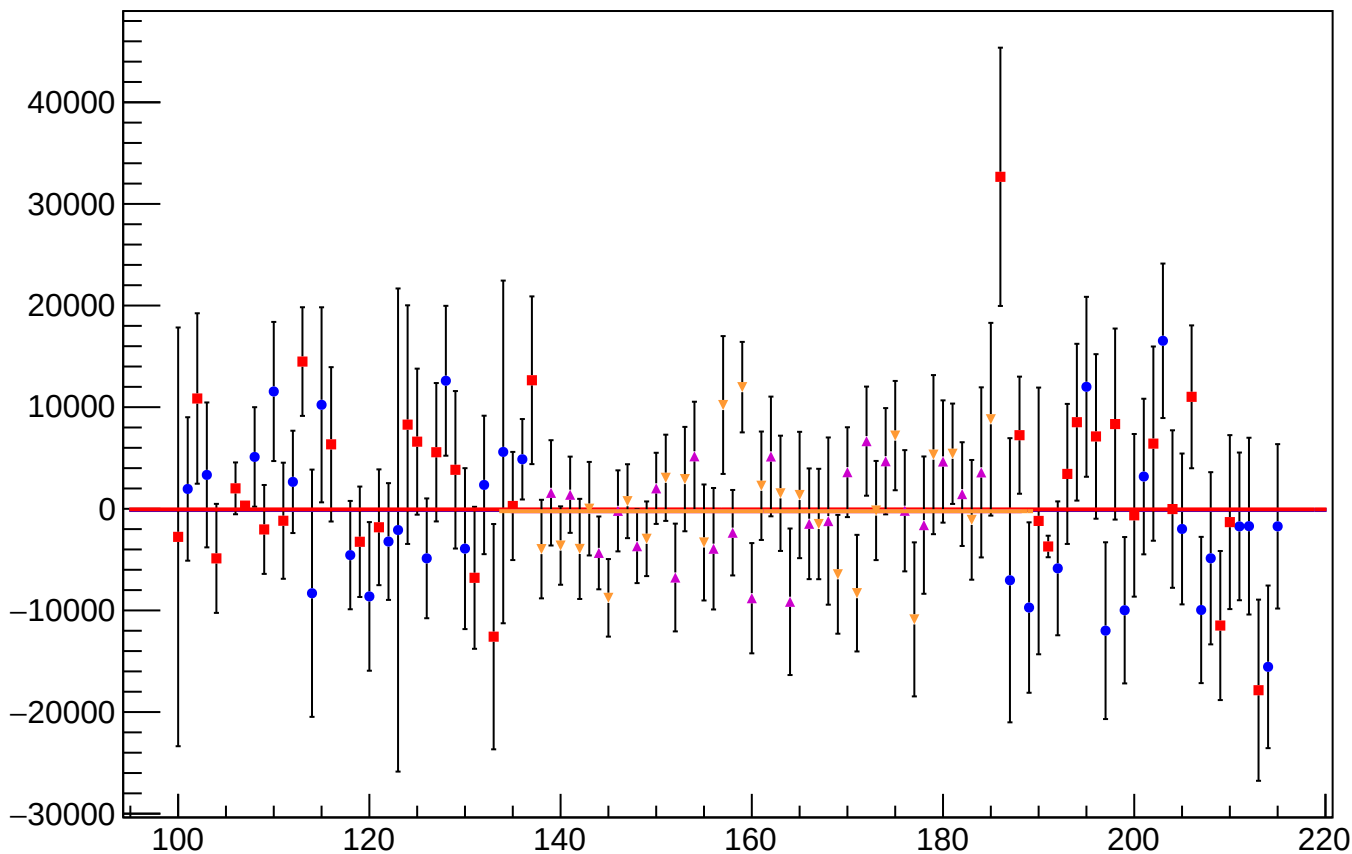
Right: 1864.241+/-0.226 χ^2/NDF : 705077.7/65

In: 1798.400+/-0.217 χ^2/NDF : 389172.3/54

Out: 1812.972+/-0.216 χ^2/NDF : 543643.9/58

All: 1805.702+/-0.153 χ^2/NDF : 935084.3/113

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -120.354+/-1255.542 χ^2/NDF : 33.3/31

Left Out: -235.806+/-1005.144 χ^2/NDF :28.9/24

Right Out: -60.776+/-409.550 χ^2/NDF : 52.0/33

Left In: -239.224+/-1028.883 χ^2/NDF :15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

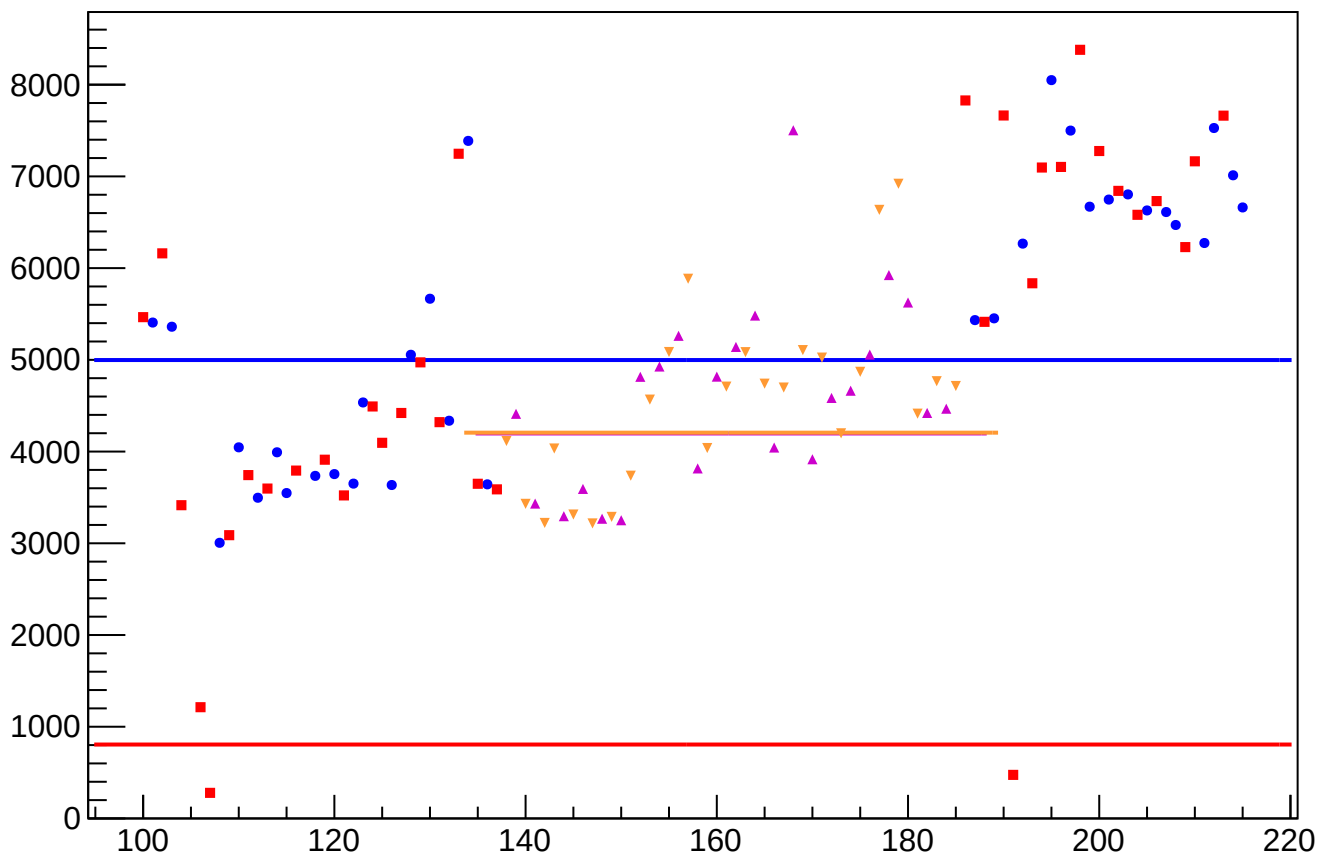
Right: -66.505+/-389.360 χ^2/NDF : 85.3/65

In: -191.468+/-795.808 χ^2/NDF :48.6/54

Out: -85.697+/-379.275 χ^2/NDF :80.9/58

All: -105.275+/-342.379 χ^2/NDF : 129.6/113

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4997.838 $\pm$ 0.888 χ^2 /NDF: 2824779.7/31

Left Out: 4206.076 $\pm$ 0.711 χ^2 /NDF: 1442269.3/24

Right Out: 805.996 $\pm$ 0.290 χ^2 /NDF: 26160935.1/33

Left In: 4197.267 $\pm$ 0.728 χ^2 /NDF: 1471012.9/22

Left: 4201.775 $\pm$ 0.508 χ^2 /NDF: 2913357.2/47

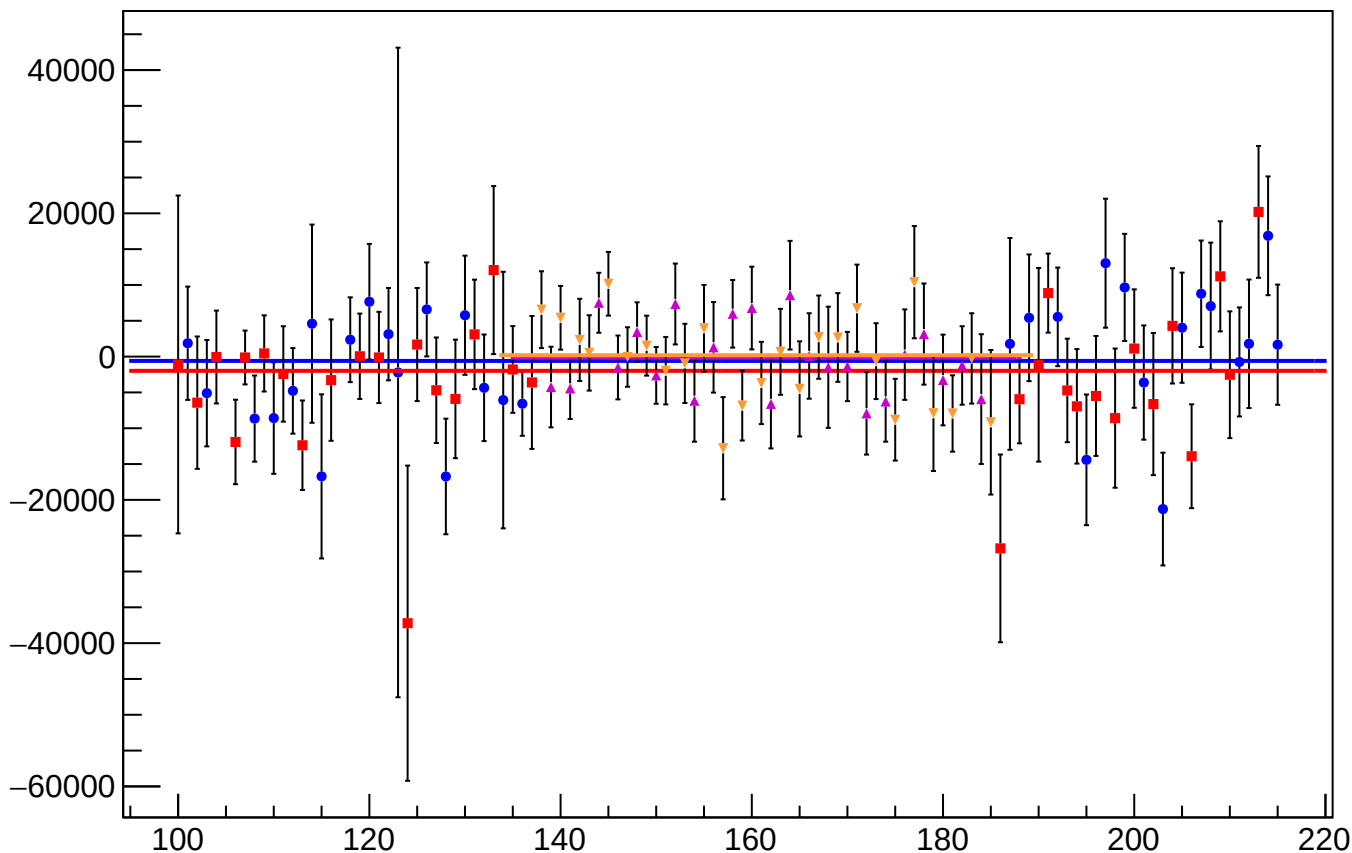
Right: 1209.125 $\pm$ 0.275 χ^2 /NDF: 49135195.7/65

In: 4518.895 $\pm$ 0.563 χ^2 /NDF: 4782256.9/54

Out: 1290.104 $\pm$ 0.268 χ^2 /NDF: 47229856.9/58

All: 1887.743 $\pm$ 0.242 χ^2 /NDF: 78840809.7/117

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -601.439 ± 1373.060 χ^2/NDF : 37.6/31

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -1986.160 ± 1257.351 χ^2/NDF : 33.1/33

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

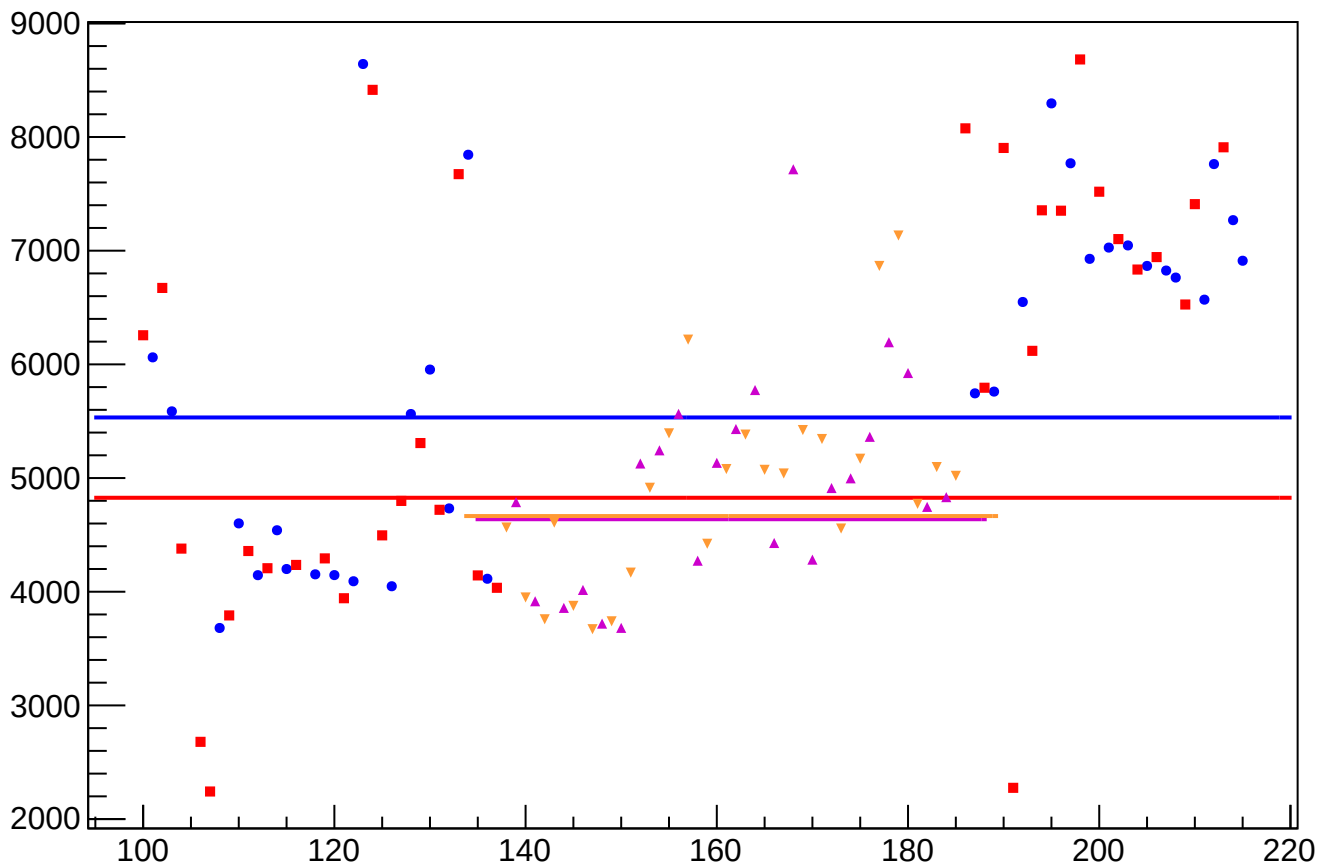
Right: -1354.594 ± 927.294 χ^2/NDF : 71.2/65

In: -324.758 ± 872.358 χ^2/NDF : 56.2/54

Out: -760.267 ± 830.803 χ^2/NDF : 59.8/58

All: -553.132 ± 601.621 χ^2/NDF : 116.1/113

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5532.961 $\pm$ 0.971 χ^2/NDF : 2041728.4/31

Left Out: 4665.620 $\pm$ 0.783 χ^2/NDF : 1017235.0/24

Right Out: 4826.521 $\pm$ 0.885 χ^2/NDF : 4316723.2/33

Left In: 4637.777 $\pm$ 0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983 $\pm$ 0.559 χ^2/NDF : 2083072.1/47

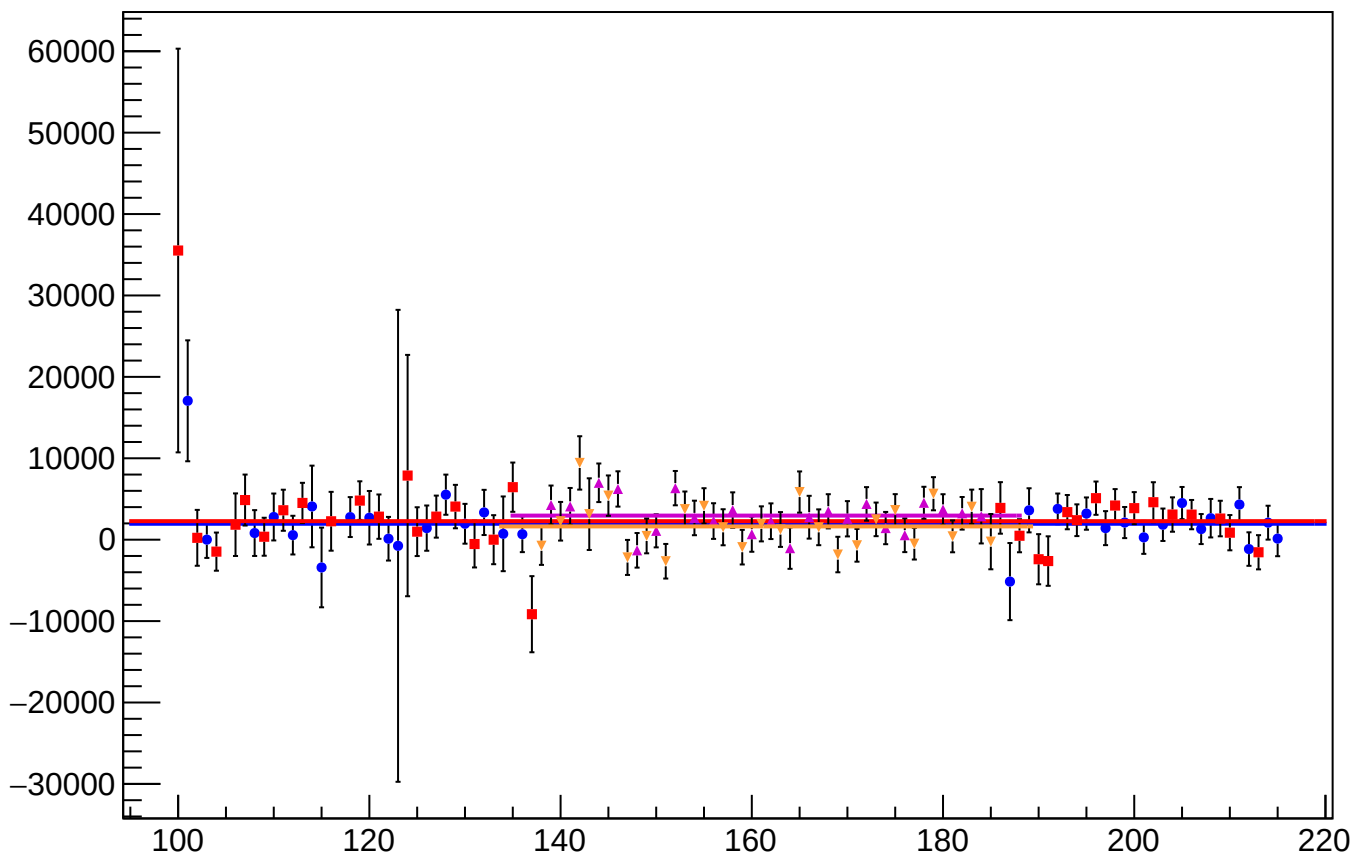
Right: 5147.291 $\pm$ 0.654 χ^2/NDF : 6647480.9/65

In: 4999.123 $\pm$ 0.617 χ^2/NDF : 3613904.2/54

Out: 4736.194 $\pm$ 0.586 χ^2/NDF : 5352495.9/58

All: 4861.012 $\pm$ 0.425 χ^2/NDF : 9061835.2/11

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1957.379+/-433.960 χ^2/NDF : 21.1/31

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2276.525+/-435.968 χ^2/NDF : 33.3/33

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

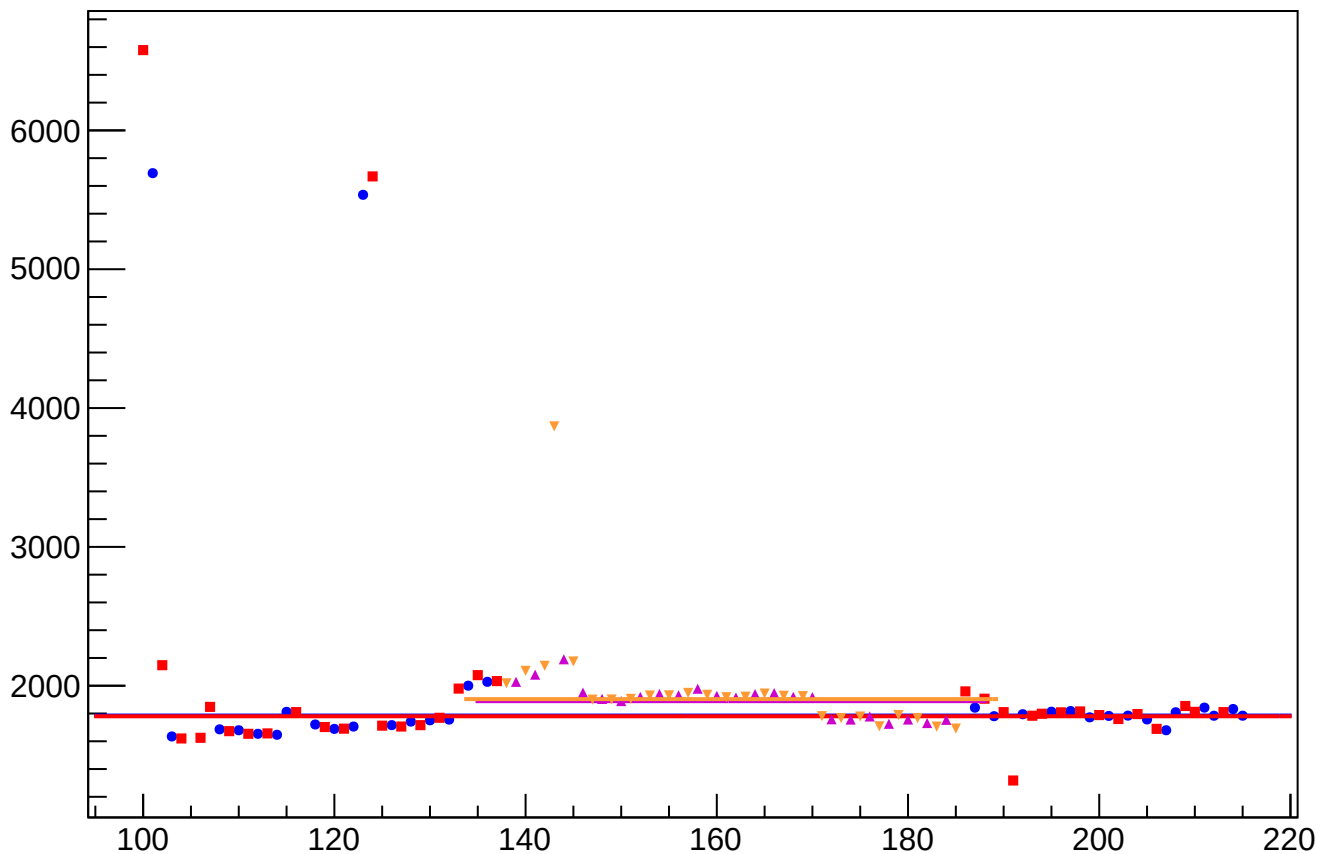
Right: 2116.215+/-307.564 χ^2/NDF : 54.7/65

In: 2435.758+/-313.598 χ^2/NDF : 44.1/54

Out: 1961.402+/-312.125 χ^2/NDF : 69.8/58

All: 2197.463+/-221.225 χ^2/NDF : 115.0/113

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.269+/-0.307 χ^2/NDF : 655585.1/31

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1779.999+/-0.307 χ^2/NDF : 377059.5/33

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

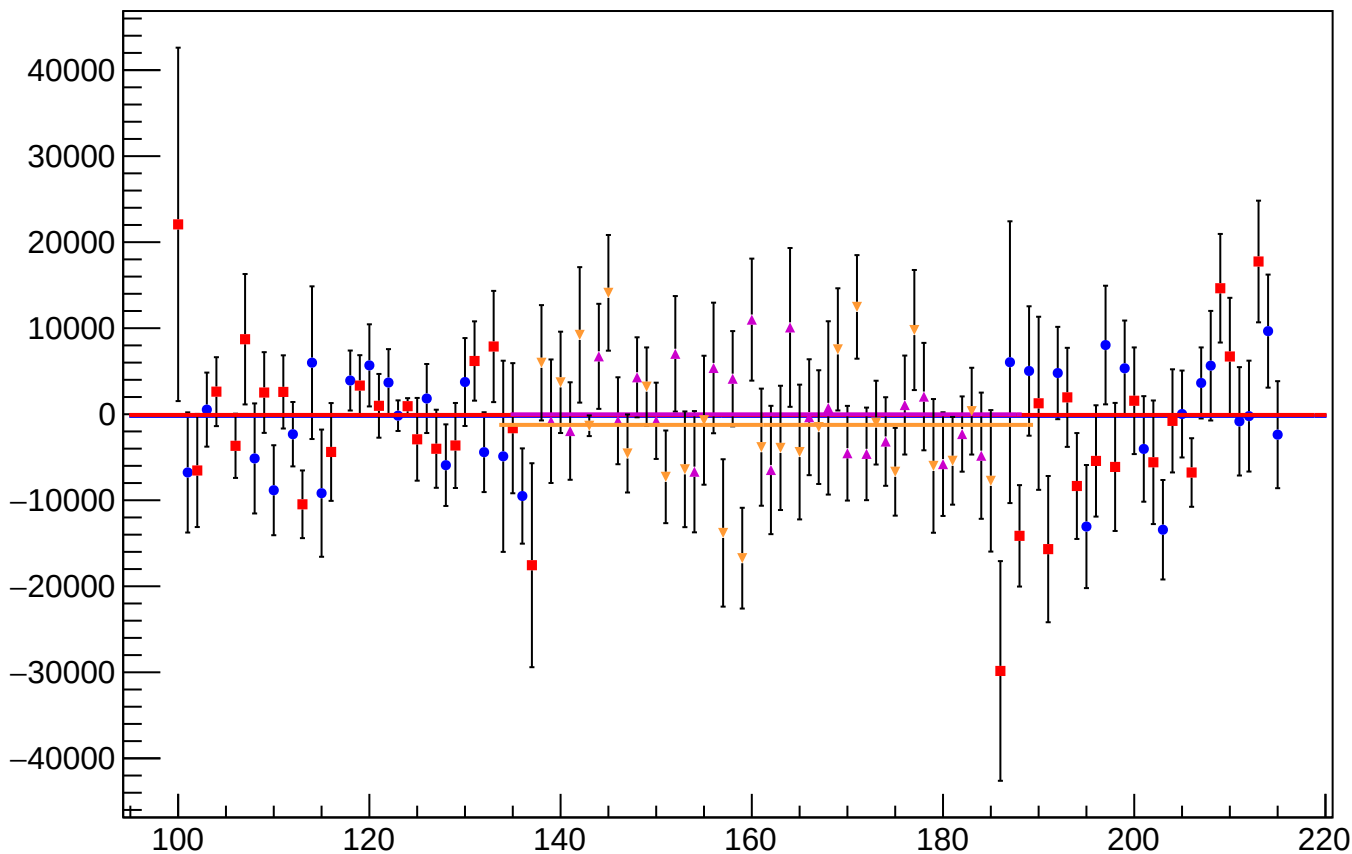
Right: 1782.639+/-0.217 χ^2/NDF : 1032791.8/65

In: 1834.795+/-0.222 χ^2/NDF : 836524.1/54

Out: 1840.083+/-0.220 χ^2/NDF : 997230.1/58

All: 1837.455+/-0.156 χ^2/NDF : 1834040.3/11

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -194.351 ± 849.800 $\chi^2/\text{NDF}: 33.4/31$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: -81.532 ± 665.517 $\chi^2/\text{NDF}: 56.6/33$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

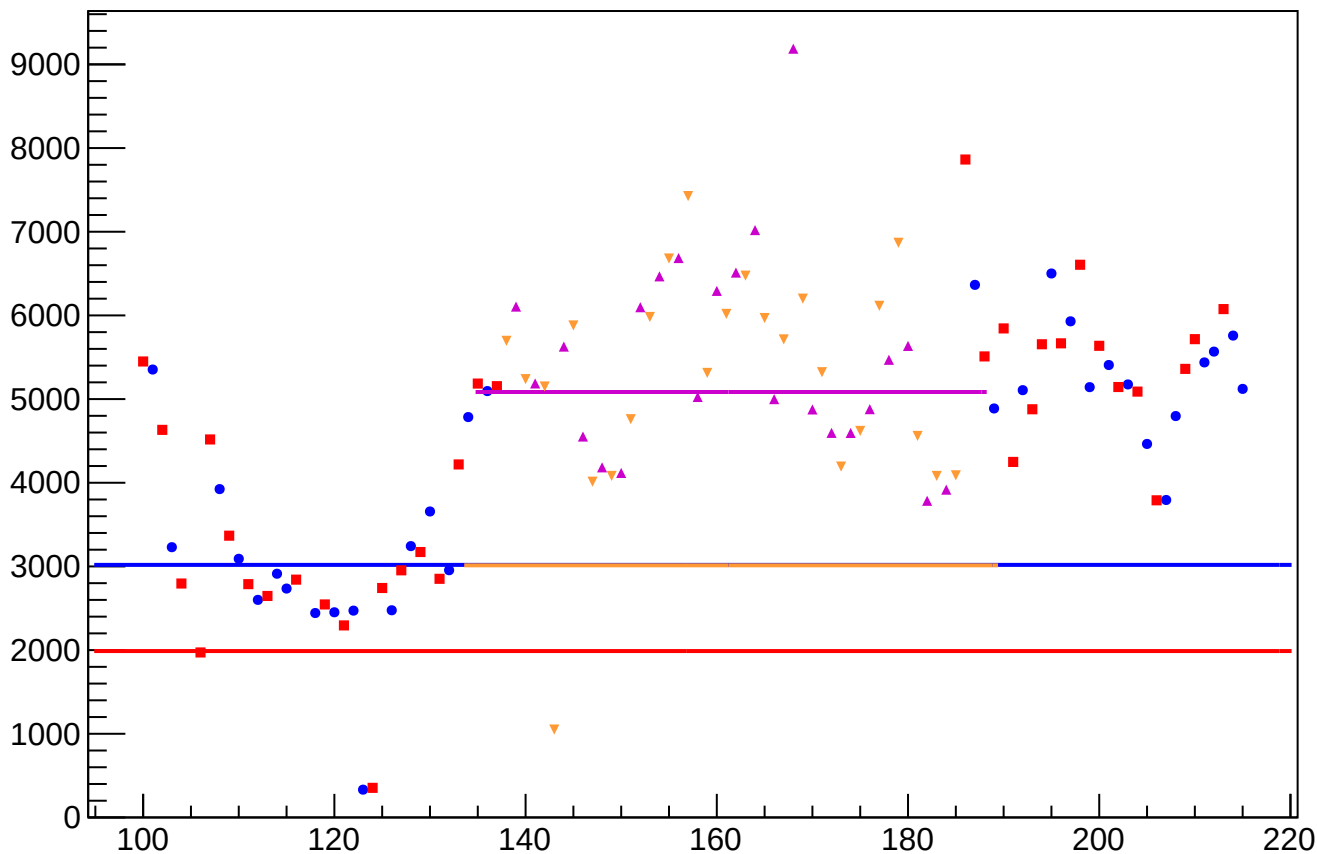
Right: -124.421 ± 523.961 $\chi^2/\text{NDF}: 90.0/65$

In: -137.518 ± 701.580 $\chi^2/\text{NDF}: 46.7/54$

Out: -512.109 ± 527.511 $\chi^2/\text{NDF}: 91.6/58$

All: -376.821 ± 421.626 $\chi^2/\text{NDF}: 138.4/113$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3018.542 $\pm$ 0.601 χ^2/NDF : 9176248.8/31

Left Out: 3013.268 $\pm$ 0.612 χ^2/NDF : 12270753.9/24

Right Out: 1988.704 $\pm$ 0.471 χ^2/NDF : 16325720.6/33

Left In: 5084.645 $\pm$ 0.879 χ^2/NDF : 1303587.7/22

Left: 3689.075 $\pm$ 0.502 χ^2/NDF : 17314385.8/47

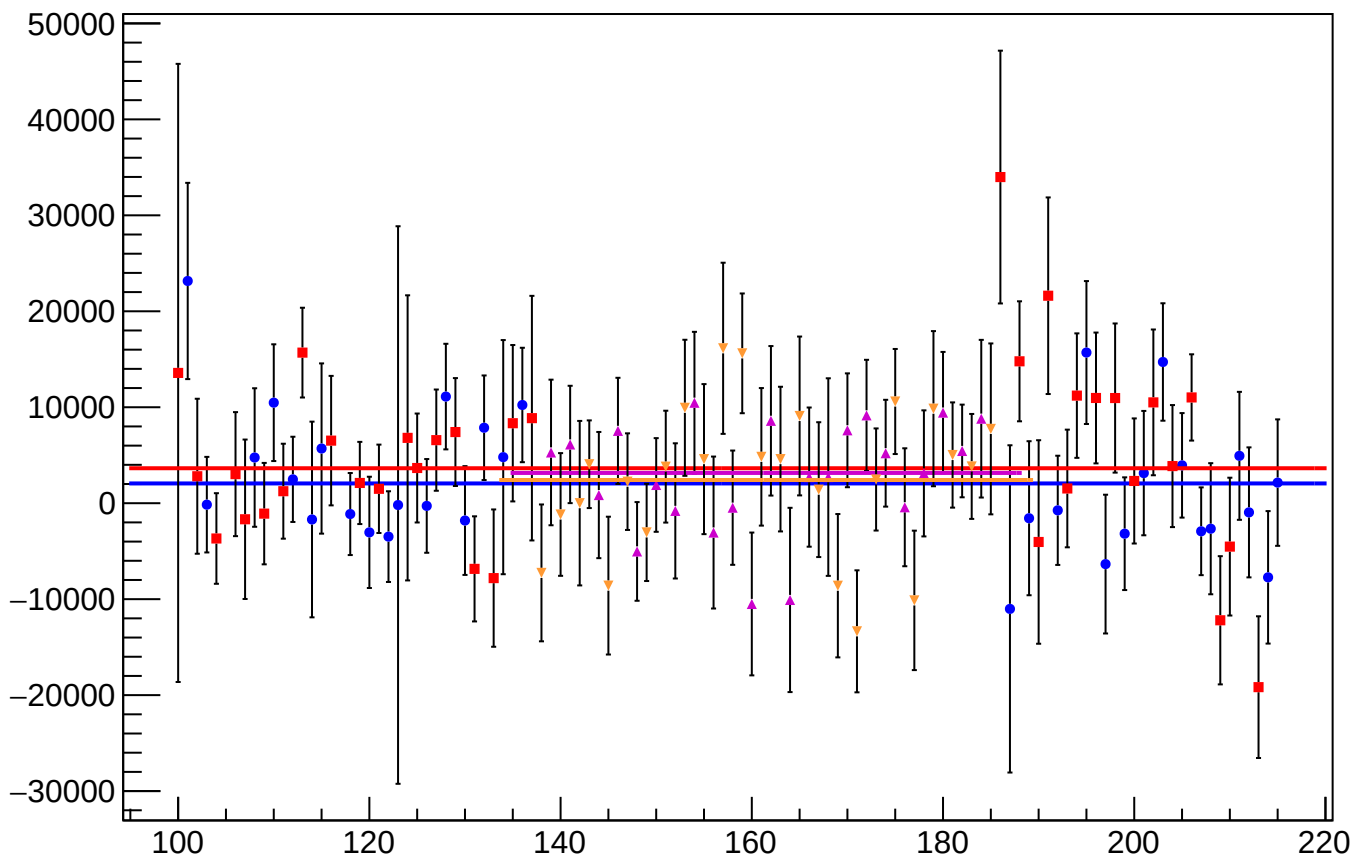
Right: 2380.206 $\pm$ 0.370 χ^2/NDF : 27322569.9/65

In: 3676.415 $\pm$ 0.496 χ^2/NDF : 14244199.2/54

Out: 2369.567 $\pm$ 0.373 χ^2/NDF : 30358529.8/58

All: 2841.549 $\pm$ 0.298 χ^2/NDF : 49035933.2/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2059.956+/-1096.323 χ^2/NDF : 31.0/31

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 3643.585+/-1093.497 χ^2/NDF : 54.3/33

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

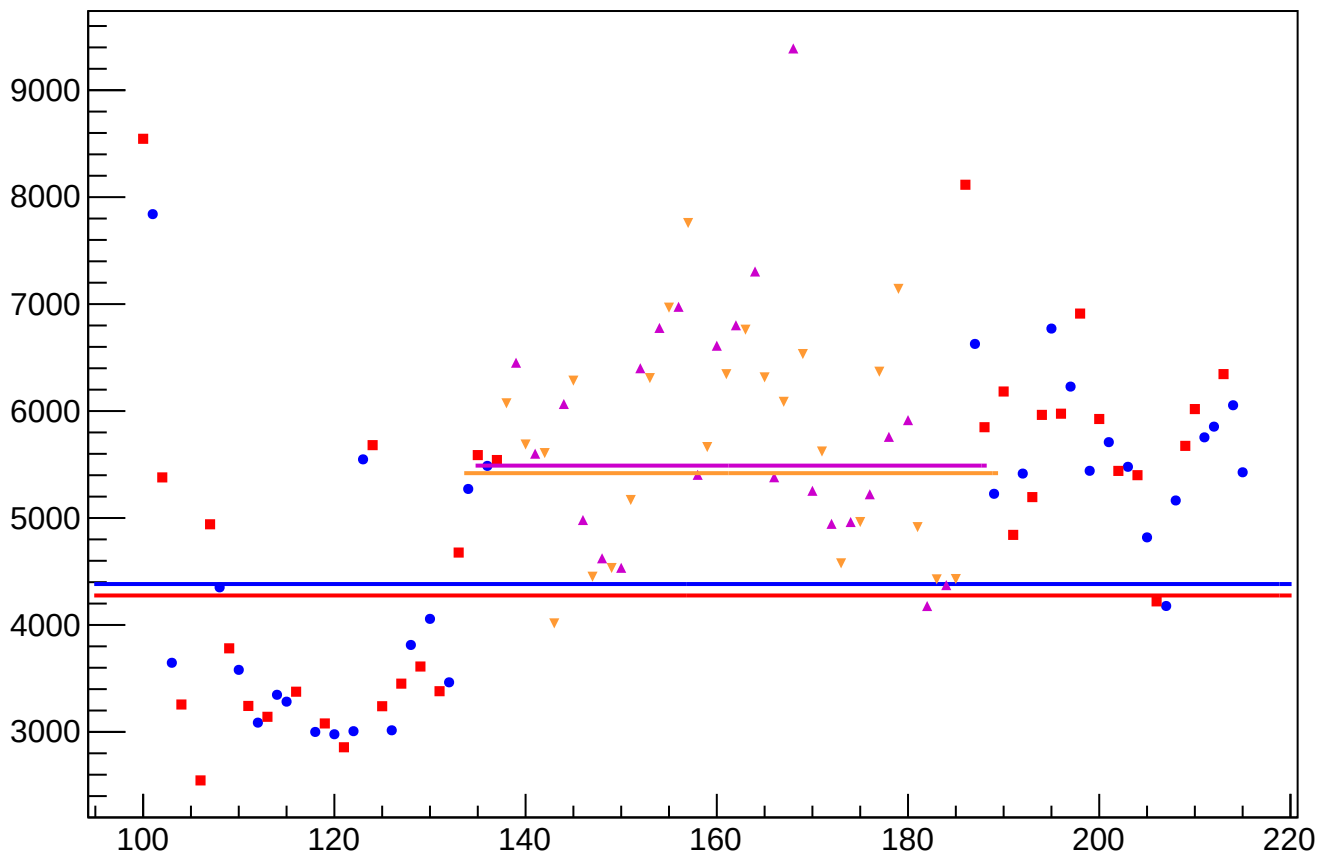
Right: 2853.814+/-774.216 χ^2/NDF : 86.4/65

In: 2499.445+/-847.853 χ^2/NDF : 46.9/54

Out: 3129.191+/-833.182 χ^2/NDF : 84.7/58

All: 2819.814+/-594.268 χ^2/NDF : 131.9/113

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4382.632 $\pm$ 0.775 χ^2/NDF : 2410743.6/31

Left Out: 5419.305 $\pm$ 0.910 χ^2/NDF : 1109972.1/24

Right Out: 4275.676 $\pm$ 0.766 χ^2/NDF : 2810606.5/33

Left In: 5489.885 $\pm$ 0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227 $\pm$ 0.656 χ^2/NDF : 2177218.7/47

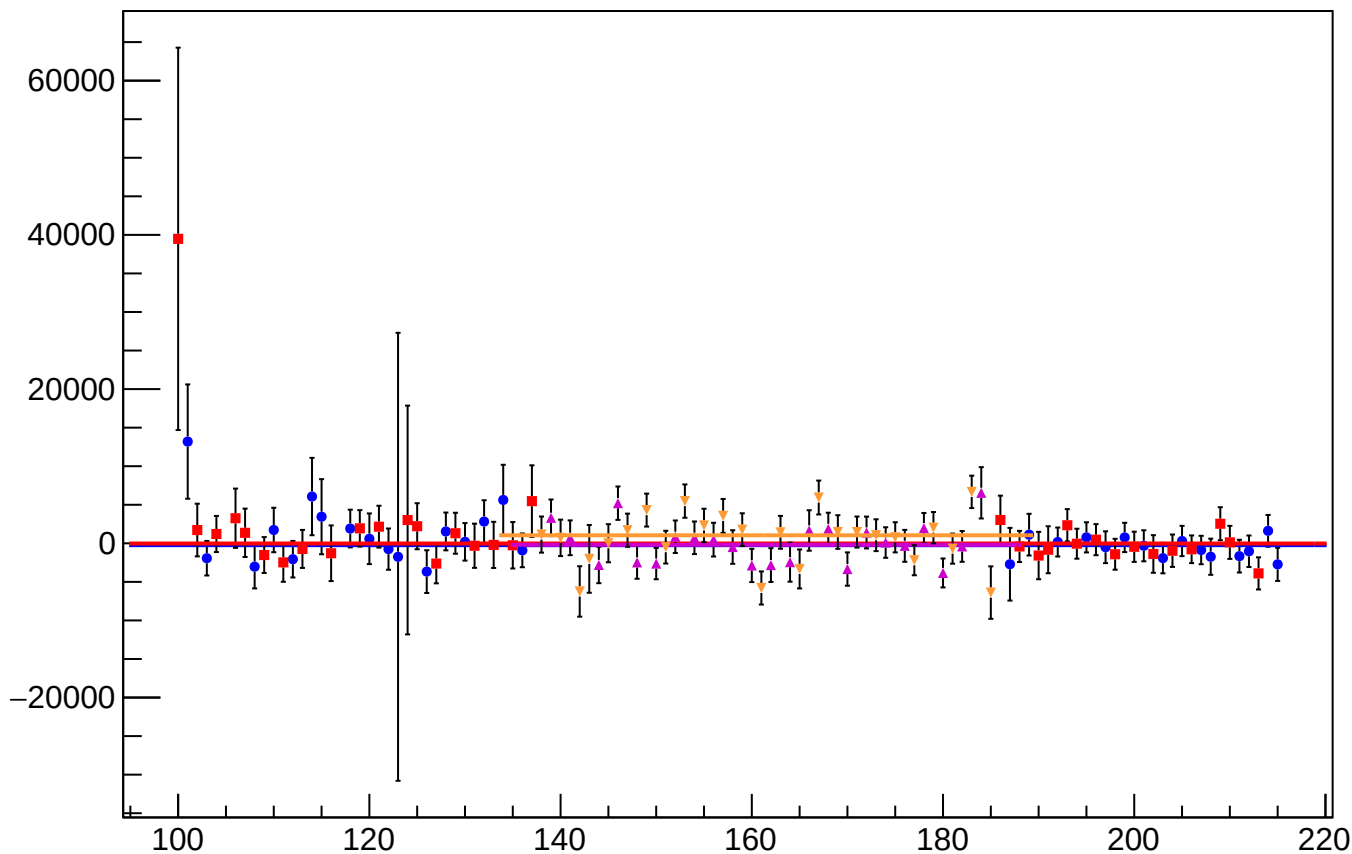
Right: 4328.543 $\pm$ 0.545 χ^2/NDF : 5230976.7/65

In: 4827.650 $\pm$ 0.600 χ^2/NDF : 4295034.3/54

Out: 4750.442 $\pm$ 0.586 χ^2/NDF : 4844947.2/58

All: 4788.173 $\pm$ 0.419 χ^2/NDF : 9148461.6/11

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -239.122+/-431.575 χ^2/NDF : 19.2/31

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: -25.219+/-433.627 χ^2/NDF : 18.9/33

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

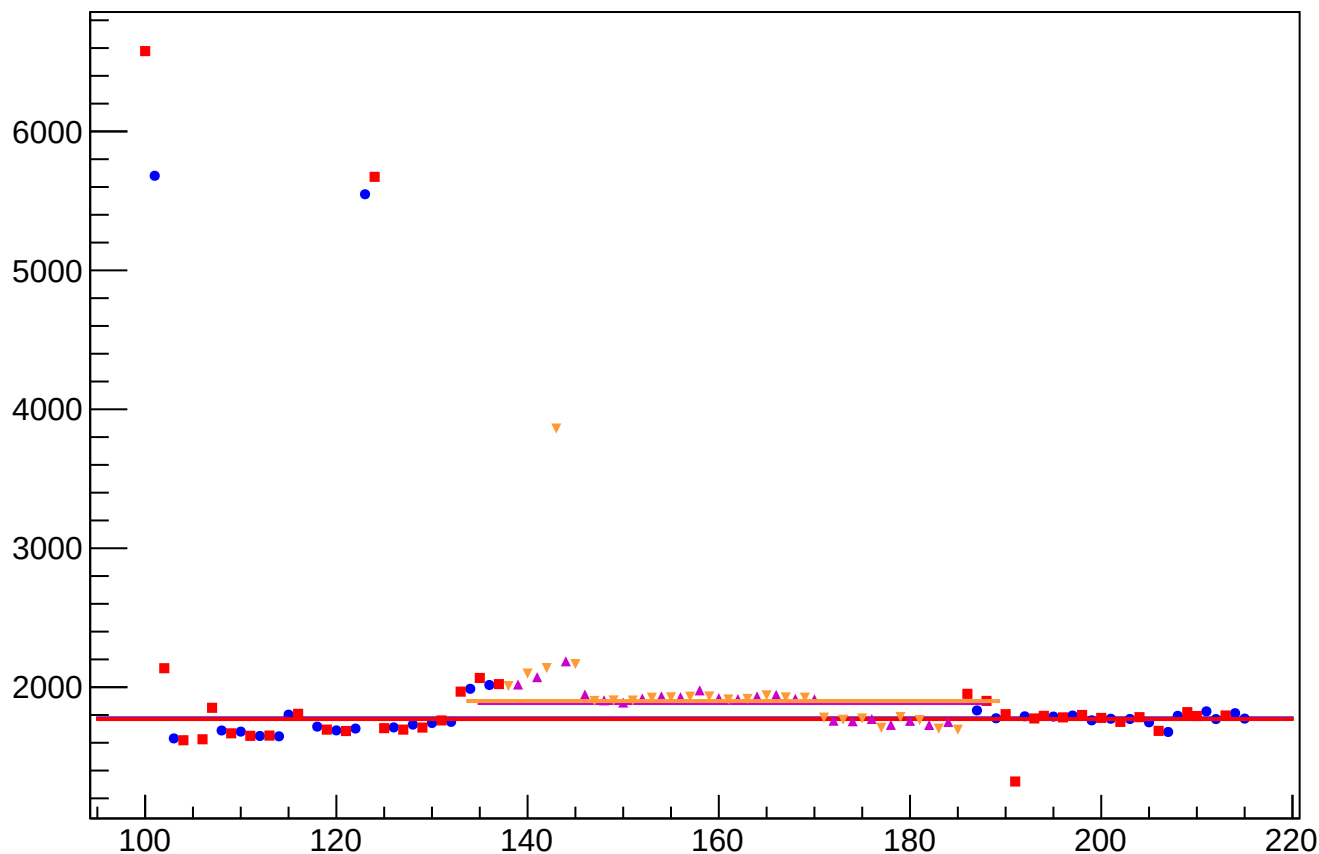
Right: -132.678+/-305.892 χ^2/NDF : 38.3/65

In: -216.689+/-312.487 χ^2/NDF : 49.2/54

Out: 492.725+/-310.987 χ^2/NDF : 70.4/58

All: 139.725+/-220.430 χ^2/NDF : 122.2/113

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1775.601+/-0.305 χ^2/NDF : 651820.3/31

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1770.716+/-0.306 χ^2/NDF : 371578.5/33

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

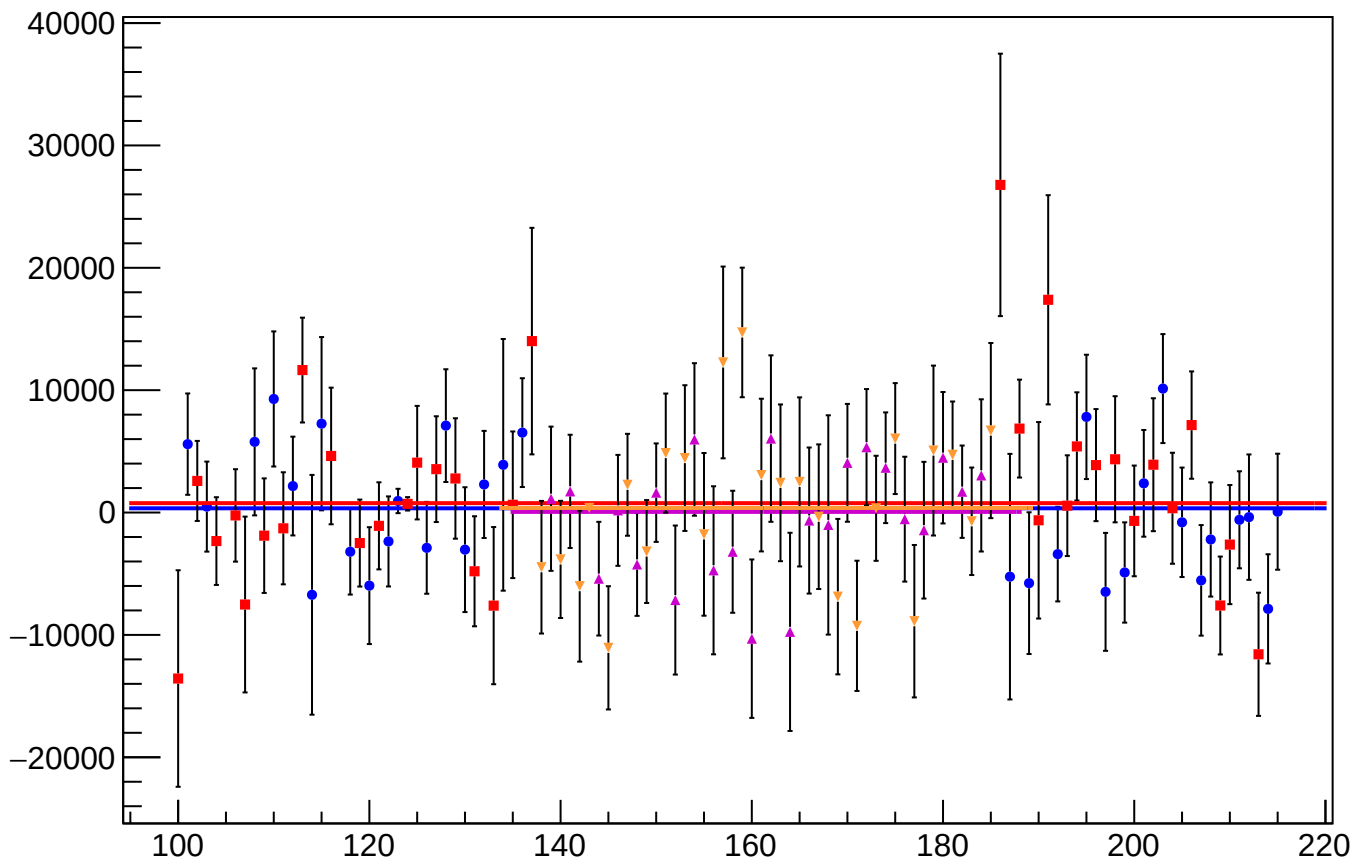
Right: 1773.163+/-0.216 χ^2/NDF : 1023526.7/65

In: 1828.301+/-0.221 χ^2/NDF : 838028.4/54

Out: 1833.467+/-0.220 χ^2/NDF : 996439.6/58

All: 1830.900+/-0.156 χ^2/NDF : 1834743.1/111

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 346.323+/-638.283 χ^2/NDF : 34.7/31

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 766.507+/-455.587 χ^2/NDF : 47.5/33

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

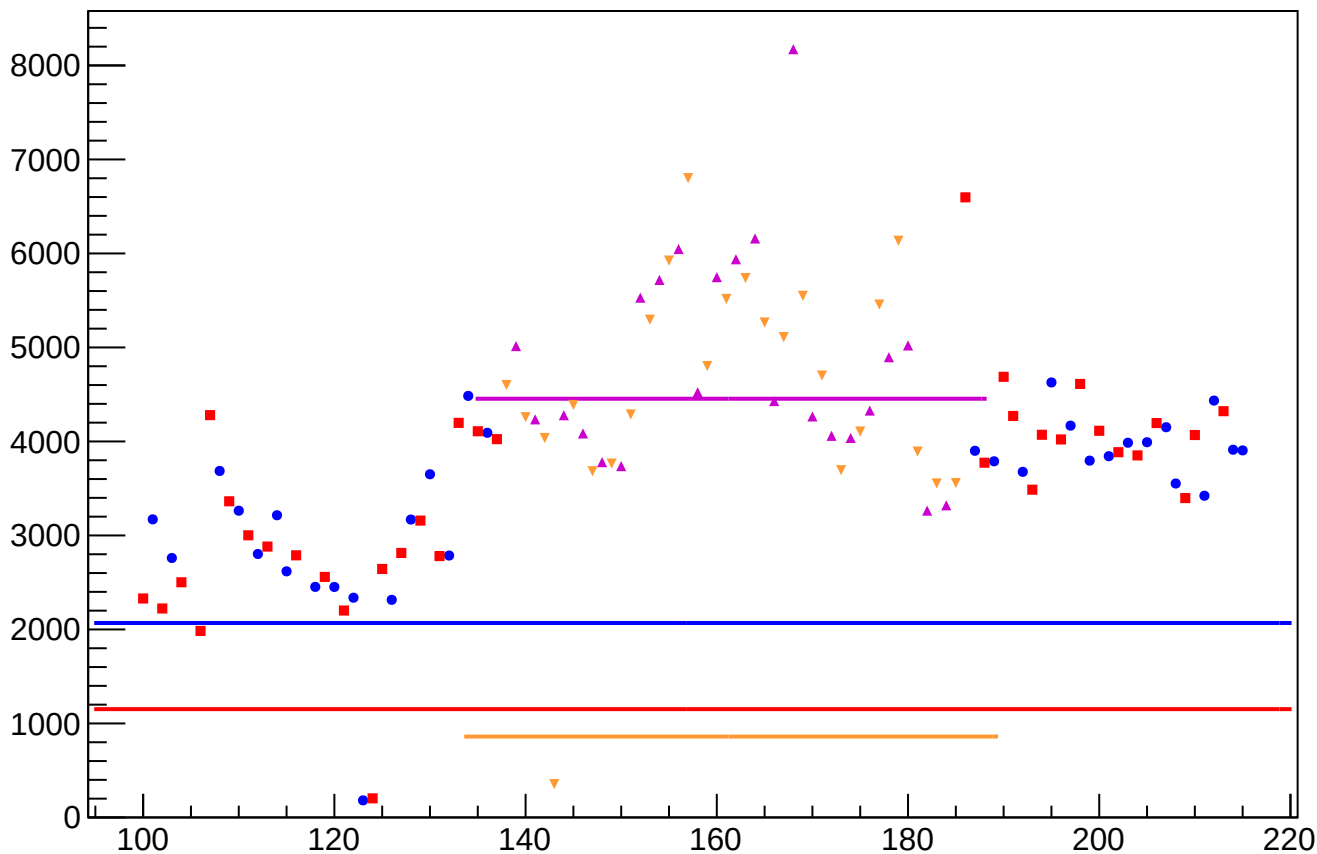
Right: 624.689+/-370.817 χ^2/NDF : 82.5/65

In: 271.438+/-550.782 χ^2/NDF :49.3/54

Out: 535.645+/-292.751 χ^2/NDF :78.8/58

All: 477.445+/-258.504 χ^2/NDF : 128.3/113

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2068.813 $\pm$ 0.451 χ^2/NDF : 13515903.2/31

Left Out: 860.545 $\pm$ 0.270 χ^2/NDF : 26340106.5/24

Right Out: 1152.379 $\pm$ 0.322 χ^2/NDF : 21394274.4/33

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

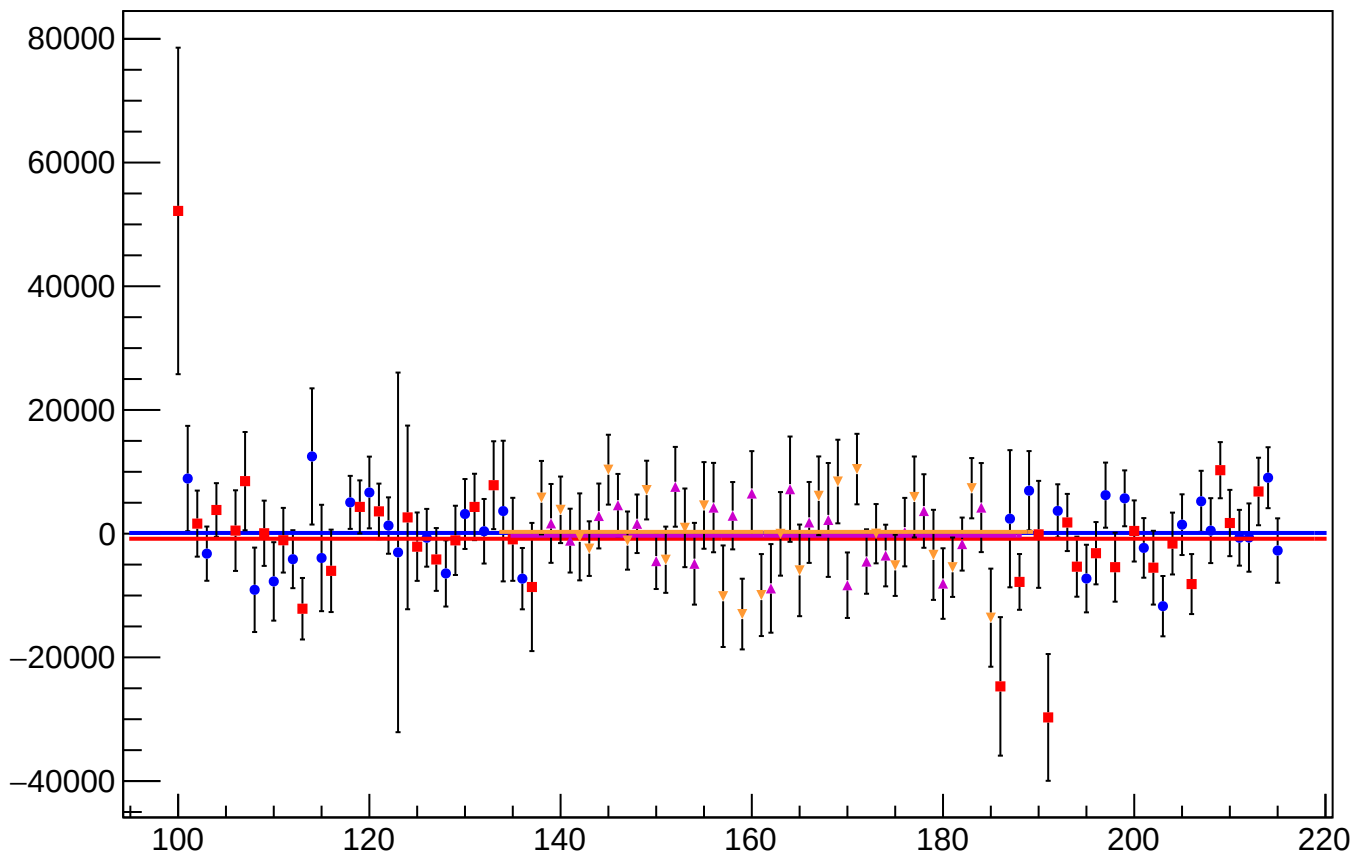
Right: 1461.688 $\pm$ 0.262 χ^2/NDF : 37641559.0/65

In: 2678.057 $\pm$ 0.389 χ^2/NDF : 22000583.9/54

Out: 981.046 $\pm$ 0.207 χ^2/NDF : 48216177.9/58

All: 1354.863 $\pm$ 0.183 χ^2/NDF : 85020767.1/113

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 114.938 $\pm$ 962.562 χ^2 /NDF: 31.6/31

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -821.753 $\pm$ 965.897 χ^2 /NDF: 46.7/33

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

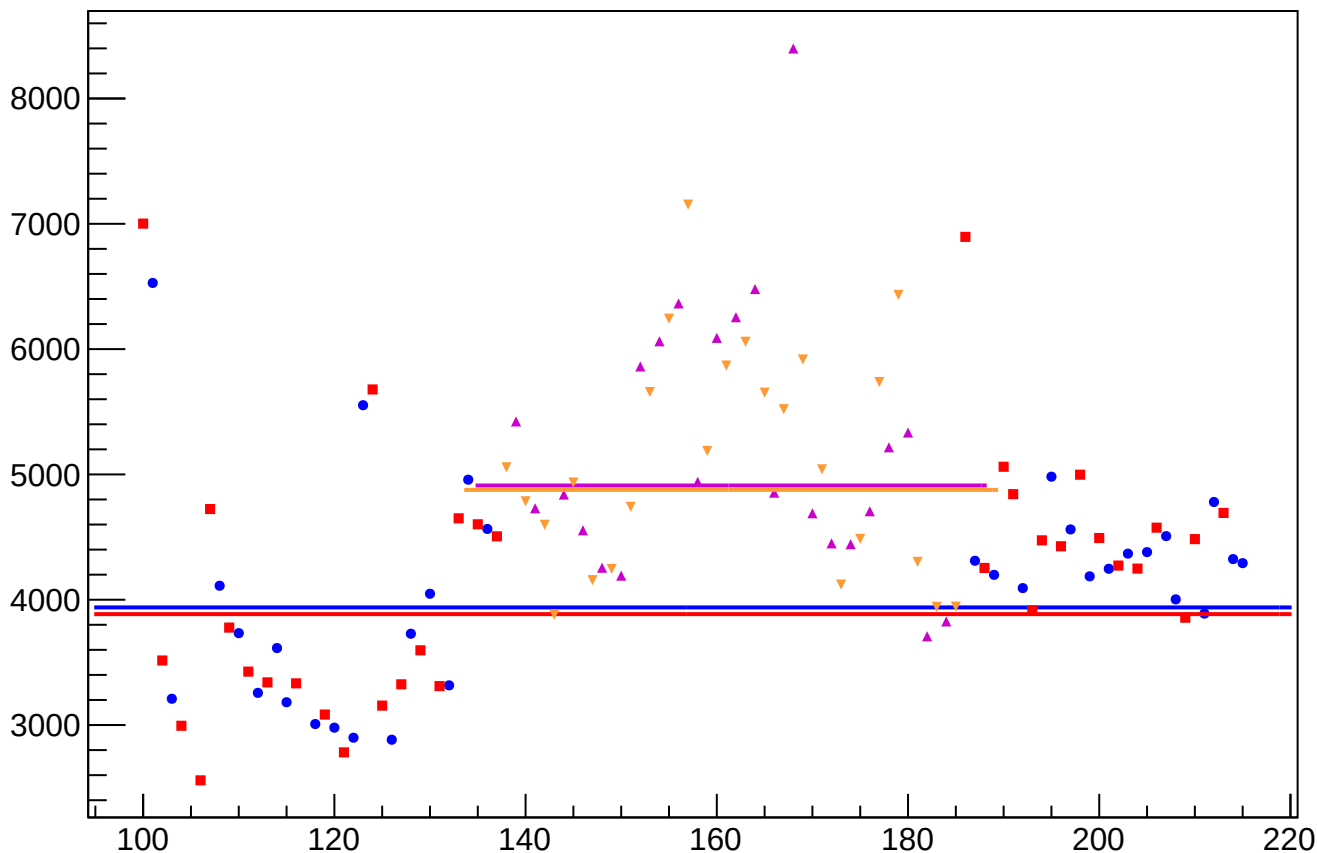
Right: -351.787 $\pm$ 681.810 χ^2 /NDF: 78.7/65

In: -60.945 $\pm$ 749.872 χ^2 /NDF:46.4/54

Out: -365.029 $\pm$ 741.060 χ^2 /NDF:79.6/58

All: -214.784 $\pm$ 527.096 χ^2 /NDF: 126.1/113

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3938.561+/-0.681 χ^2 /NDF: 994959.2/31

Left Out: 4876.564+/-0.817 χ^2 /NDF: 972528.1/24

Right Out: 3885.003+/-0.678 χ^2 /NDF: 1196926.8/33

Left In: 4911.546+/-0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451+/-0.588 χ^2 /NDF: 2016577.8/47

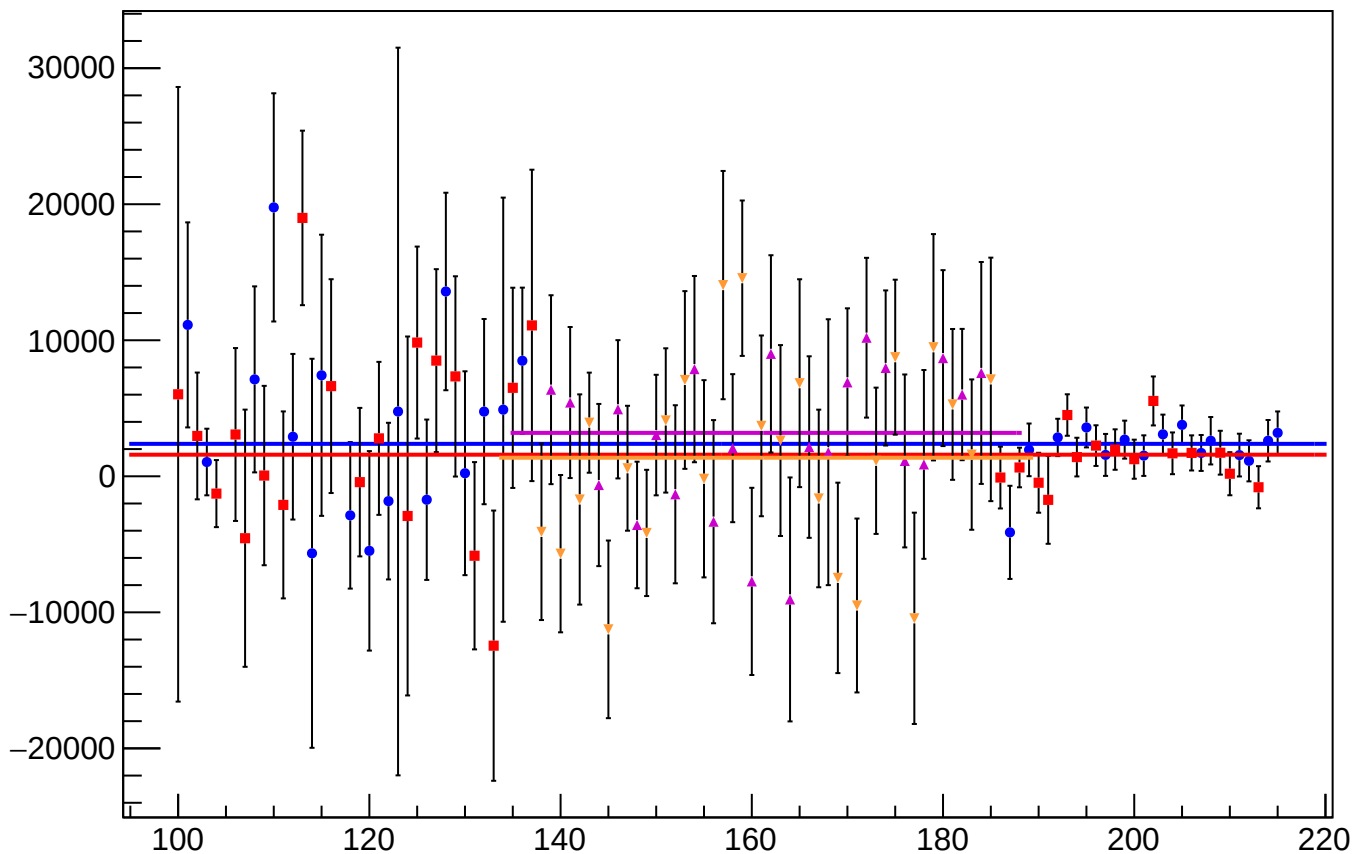
Right: 3911.690+/-0.480 χ^2 /NDF: 2194992.7/65

In: 4321.041+/-0.530 χ^2 /NDF: 2841445.7/54

Out: 4289.579+/-0.522 χ^2 /NDF: 3041416.5/58

All: 4305.060+/-0.372 χ^2 /NDF: 5884650.6/11

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2385.078+/-384.815 χ^2/NDF : 21.8/31

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1587.829+/-397.373 χ^2/NDF : 32.6/33

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

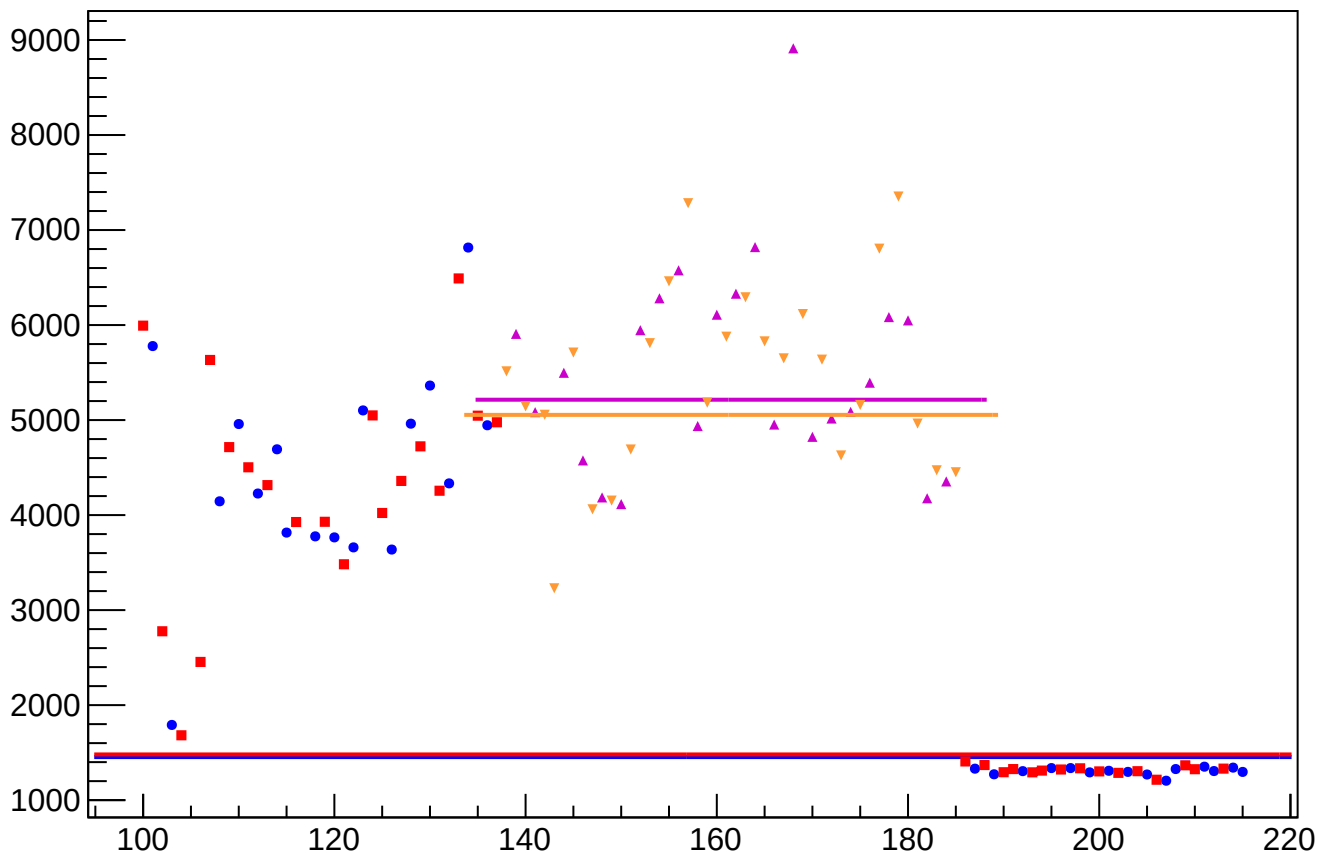
Right: 1999.250+/-276.438 χ^2/NDF : 56.5/65

In: 2452.860+/-368.281 χ^2/NDF : 36.2/54

Out: 1566.023+/-377.422 χ^2/NDF : 60.6/58

All: 2020.311+/-263.586 χ^2/NDF : 99.6/113

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1453.093+/-0.272 χ^2/NDF : 5913869.4/31

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1480.836+/-0.281 χ^2/NDF : 5805005.2/33

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

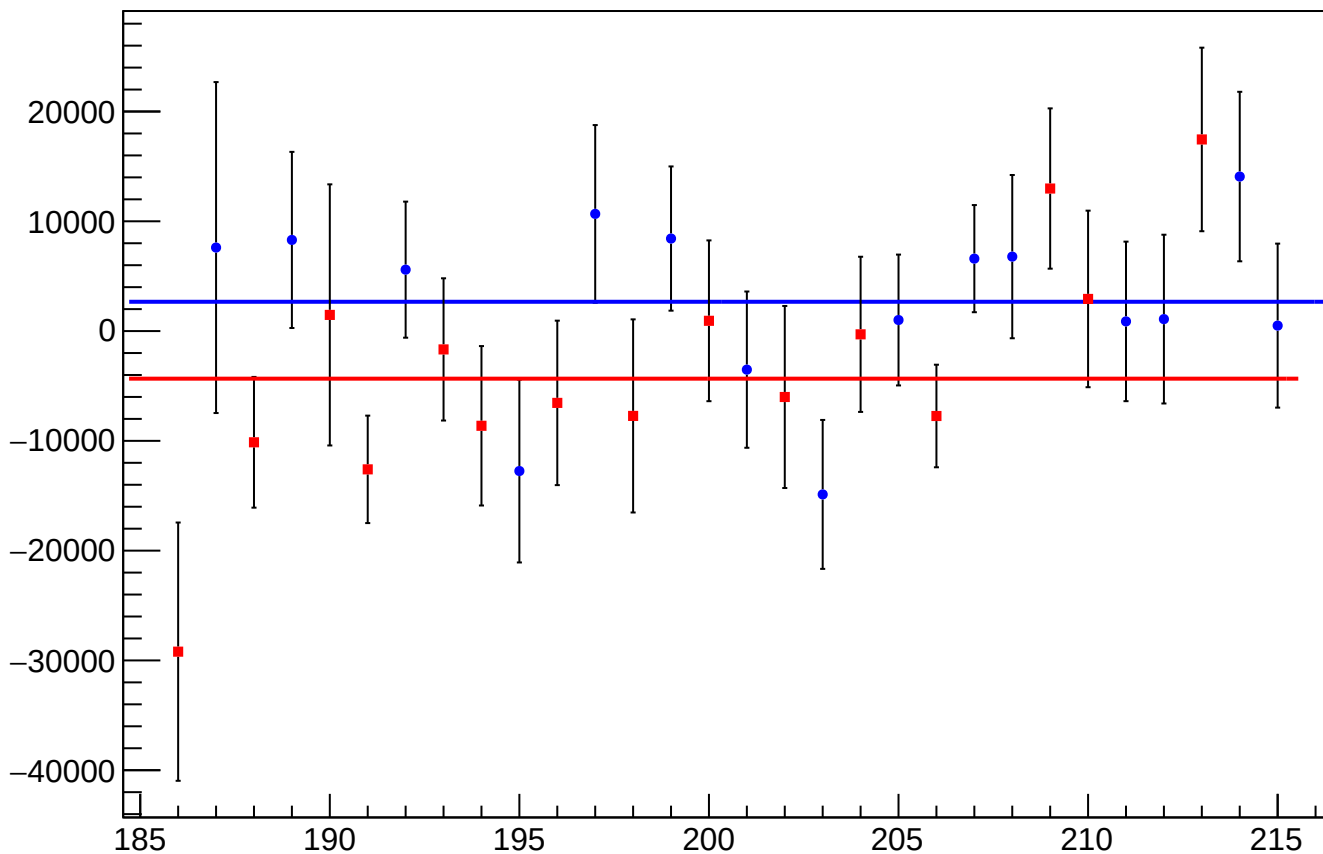
Right: 1466.530+/-0.195 χ^2/NDF : 11723909.4/65

In: 1769.350+/-0.260 χ^2/NDF : 23031147.6/54

Out: 1830.220+/-0.267 χ^2/NDF : 23081791.4/58

All: 1799.060+/-0.186 χ^2/NDF : 46139606.4/115

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2669.113+/-1828.437 χ^2/NDF : 16.8/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -4335.197+/-1809.645 χ^2/NDF : 23.9/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

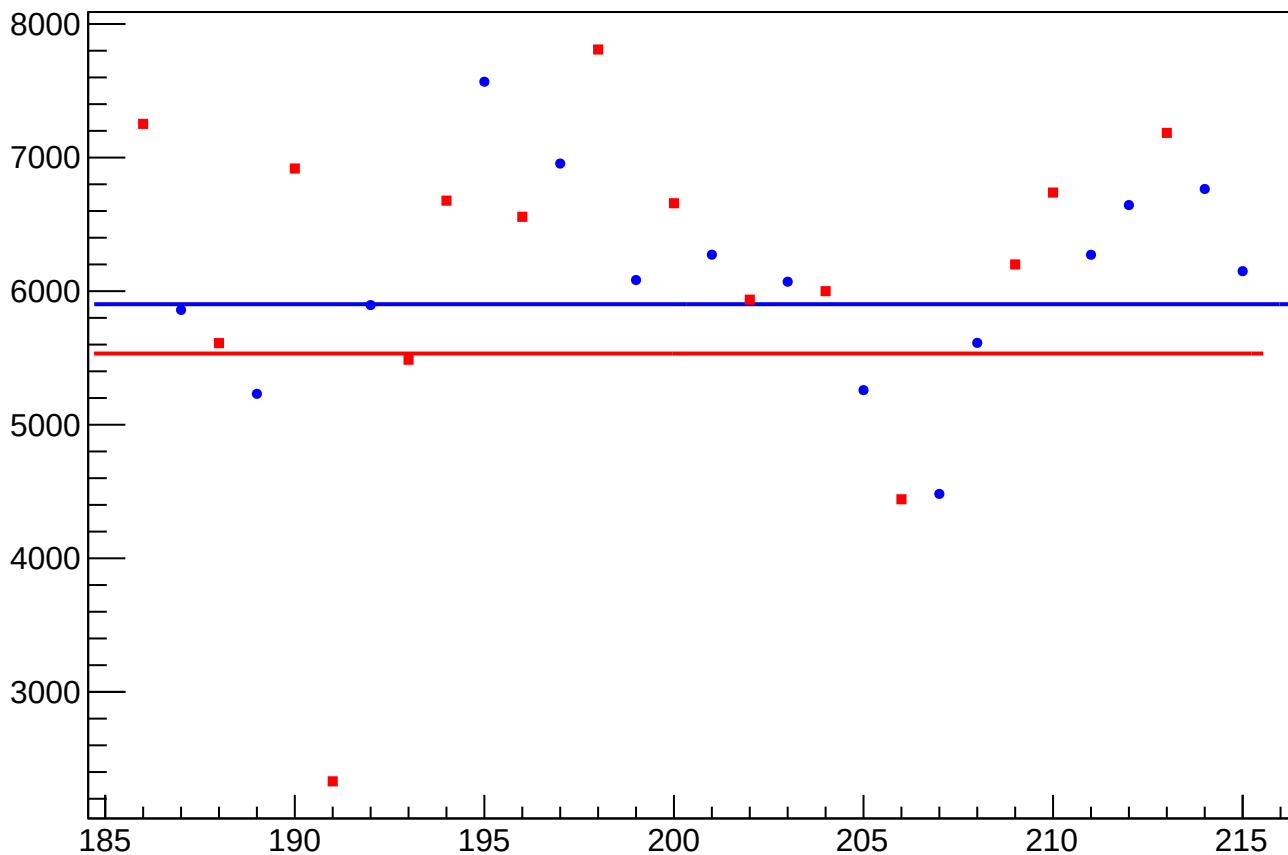
Right: -869.220+/-1286.205 χ^2/NDF : 48.2/29

In: 2669.113+/-1828.437 χ^2/NDF : 16.8/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -869.220+/-1286.205 χ^2/NDF : 48.2/29

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5902.293+/-1.293 χ^2/NDF : 382658.3/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5532.989+/-1.280 χ^2/NDF : 1457186.1/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

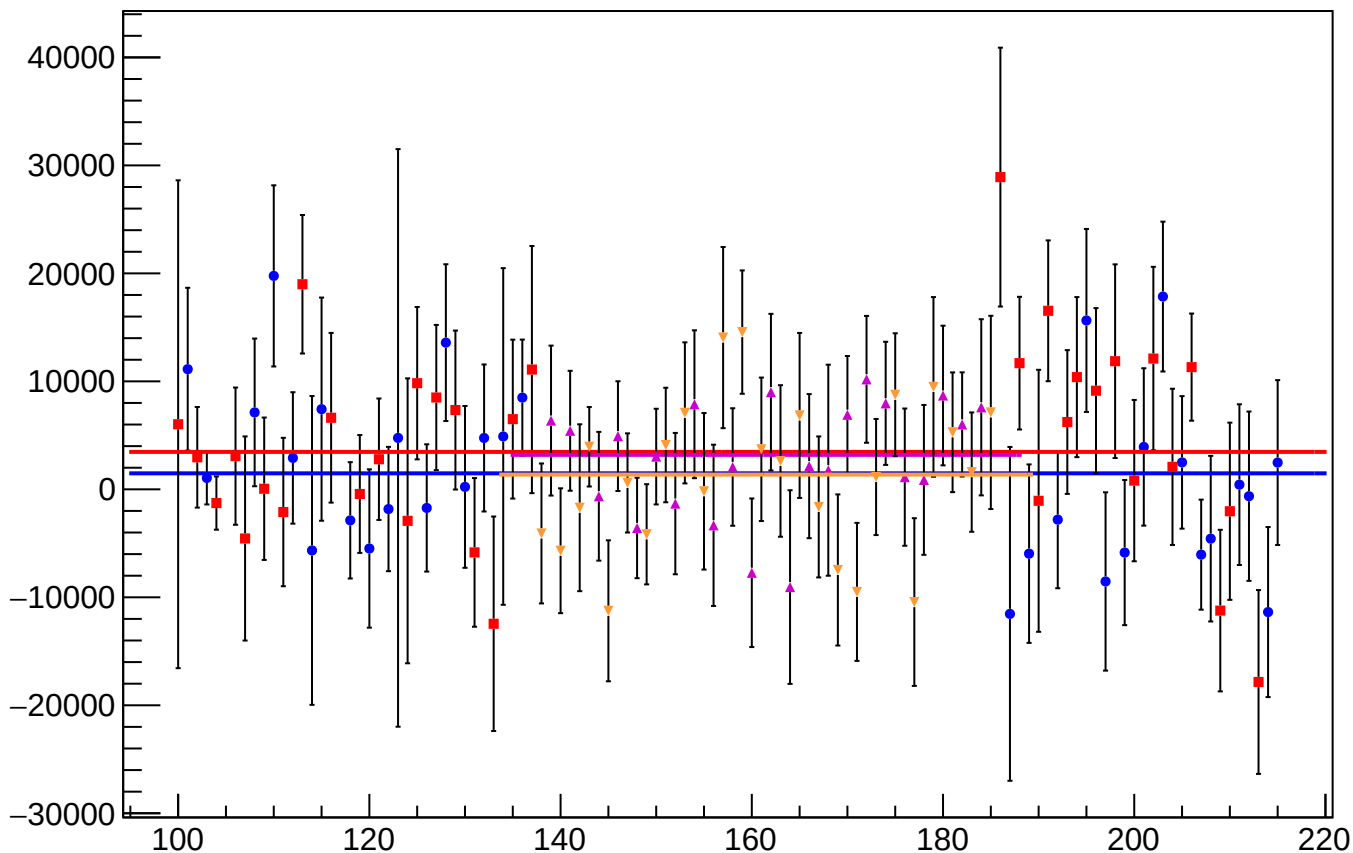
Right: 5715.733+/-0.909 χ^2/NDF : 1881061.0/29

In: 5902.293+/-1.293 χ^2/NDF : 382658.3/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5715.733+/-0.909 χ^2/NDF : 1881061.0/29

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1481.399+/-1150.579 χ^2/NDF : 33.4/31

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3467.479+/-1122.113 χ^2/NDF : 46.0/33

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

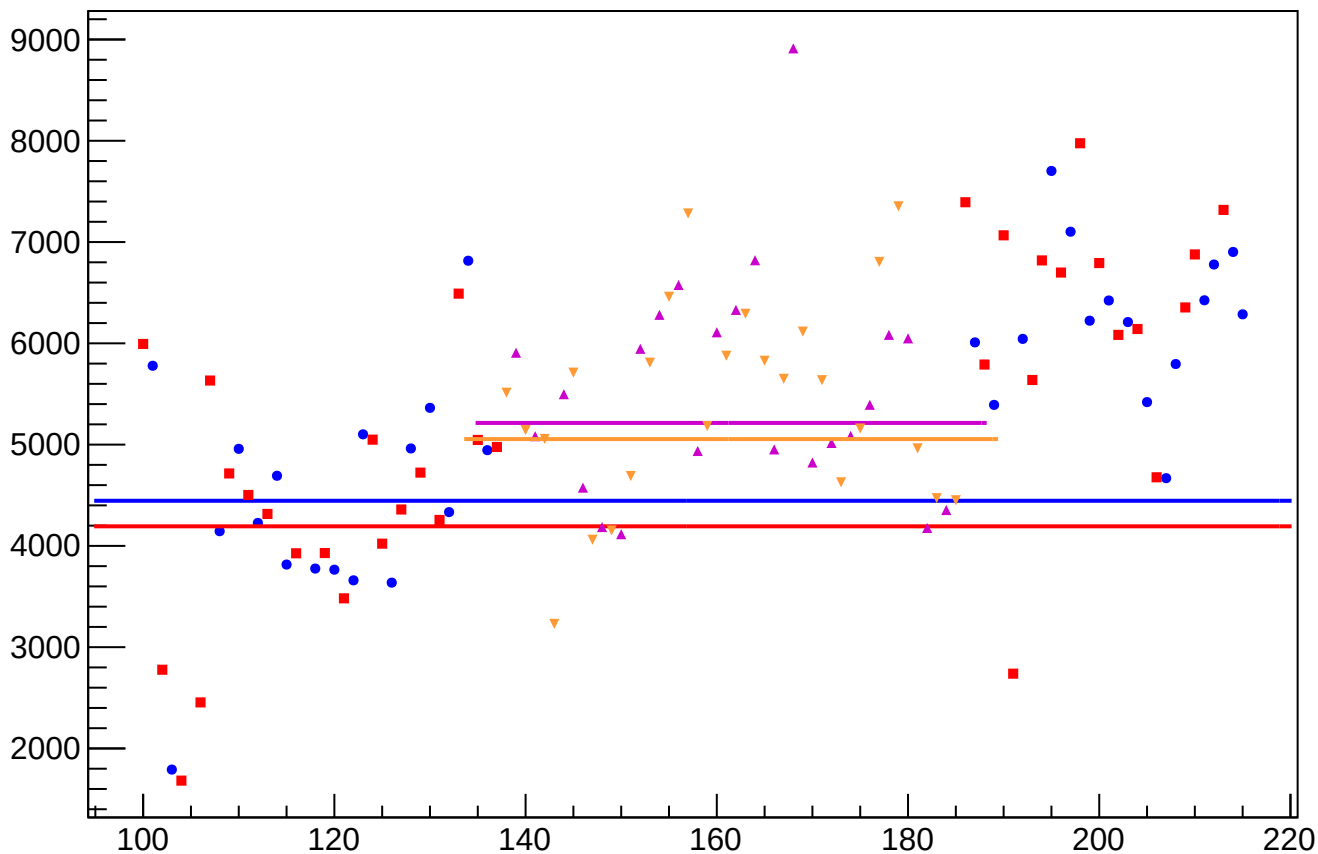
Right: 2499.311+/-803.329 χ^2/NDF : 81.0/65

In: 2252.118+/-852.690 χ^2/NDF : 48.4/54

Out: 2492.168+/-821.595 χ^2/NDF : 75.6/58

All: 2376.600+/-591.643 χ^2/NDF : 124.1/113

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4445.547 $\pm$ 0.814 χ^2 /NDF: 4500856.6/31

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 4193.211 $\pm$ 0.789 χ^2 /NDF: 5307930.5/33

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

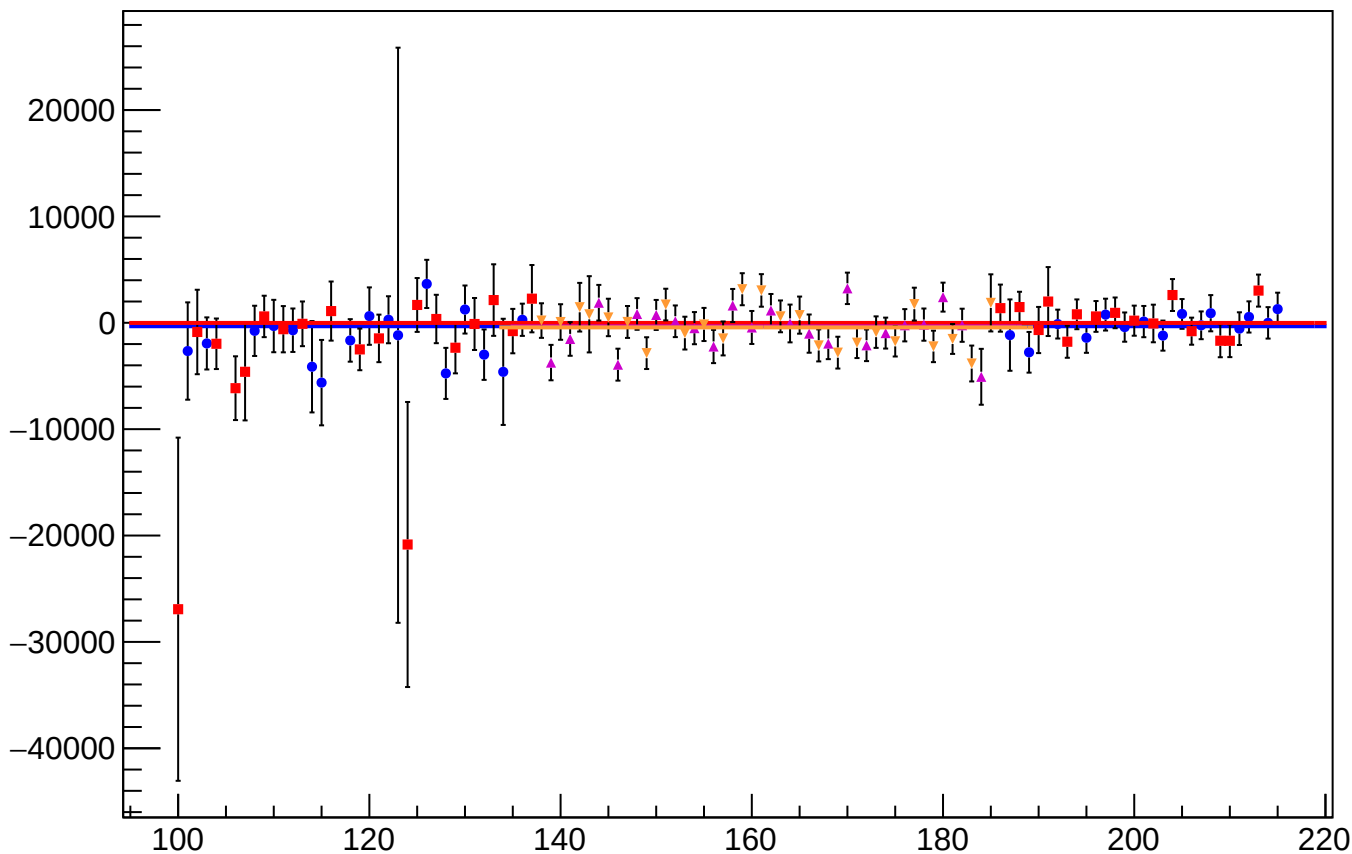
Right: 4315.453 $\pm$ 0.566 χ^2 /NDF: 9858383.0/65

In: 4791.995 $\pm$ 0.603 χ^2 /NDF:5955643.7/54

Out: 4590.256 $\pm$ 0.579 χ^2 /NDF:7295129.1/58

All: 4687.051 $\pm$ 0.418 χ^2 /NDF: 13309010.0/122

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -324.170+/-328.285 χ^2/NDF : 19.1/31

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -13.032+/-335.704 χ^2/NDF : 30.1/33

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

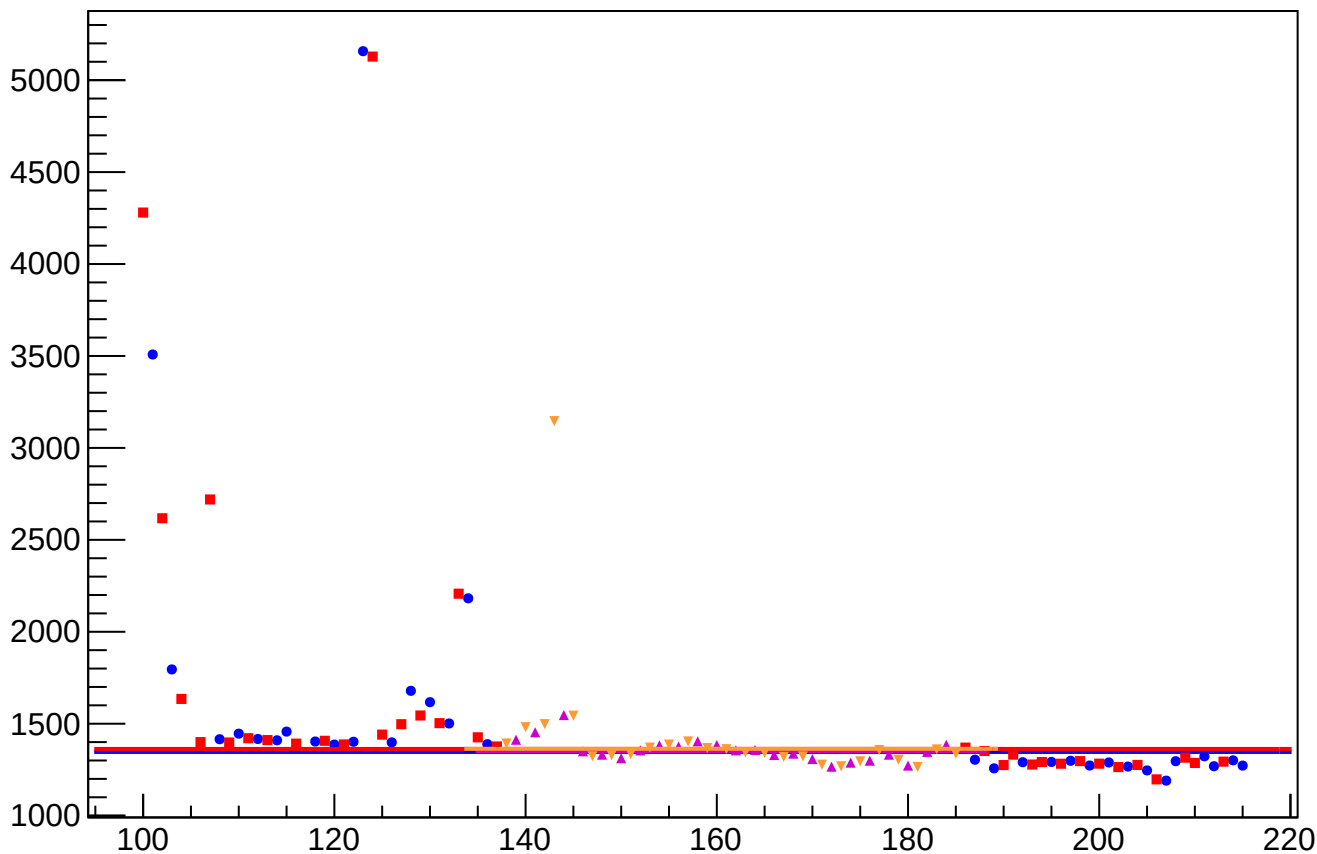
Right: -172.077+/-234.712 χ^2/NDF : 49.7/65

In: -334.071+/-230.735 χ^2/NDF : 52.9/54

Out: -232.043+/-231.832 χ^2/NDF : 64.0/58

All: -283.299+/-163.541 χ^2/NDF : 117.0/113

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1346.501 $\pm$ 0.232 χ^2 /NDF: 781691.6/31

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1362.943 $\pm$ 0.237 χ^2 /NDF: 874871.5/33

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

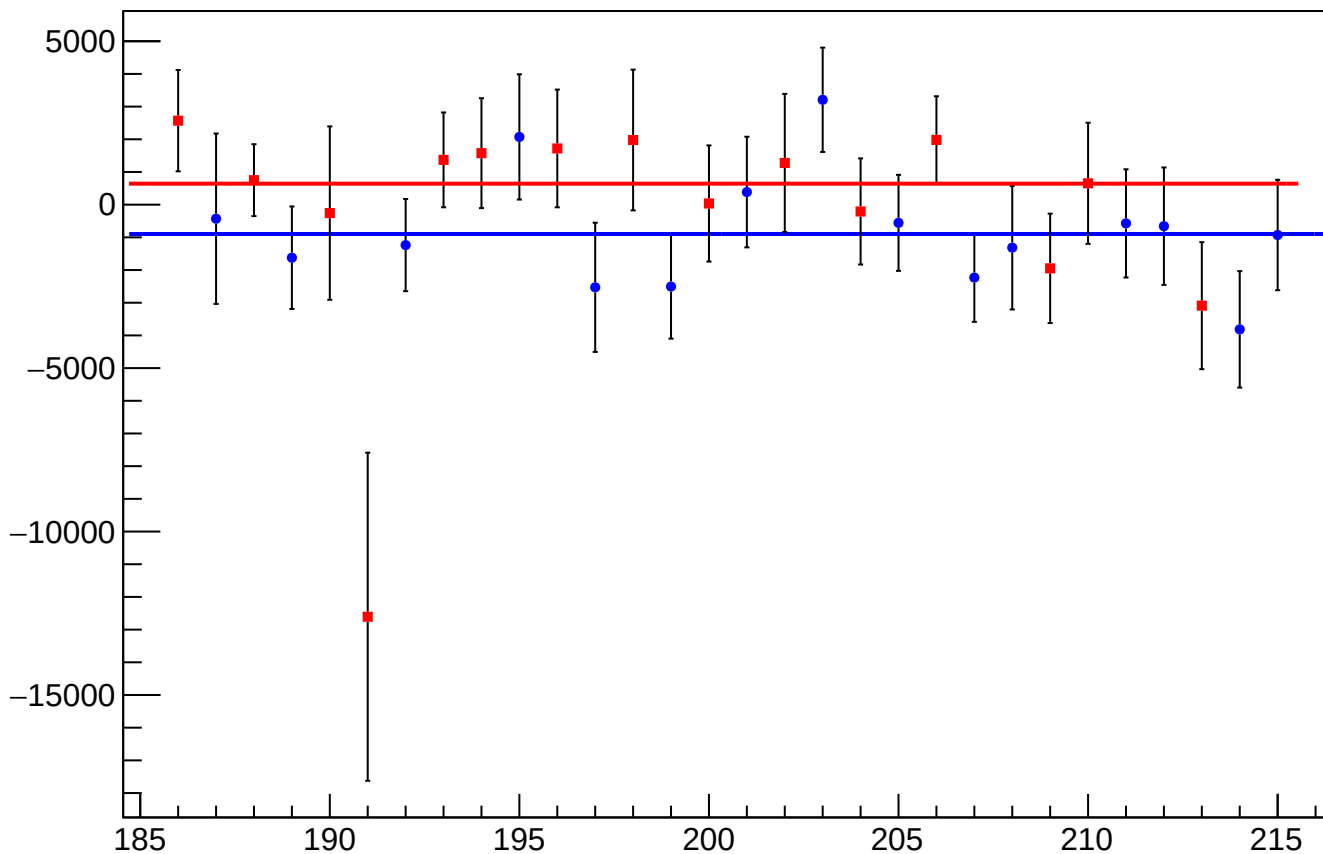
Right: 1354.538 $\pm$ 0.166 χ^2 /NDF: 1659015.4/65

In: 1348.731 $\pm$ 0.163 χ^2 /NDF: 849018.5/54

Out: 1363.266 $\pm$ 0.164 χ^2 /NDF: 1450101.7/58

All: 1355.964 $\pm$ 0.116 χ^2 /NDF: 2303069.6/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -897.613+/-432.317 χ^2/NDF : 15.4/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 642.503+/-439.639 χ^2/NDF : 17.5/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

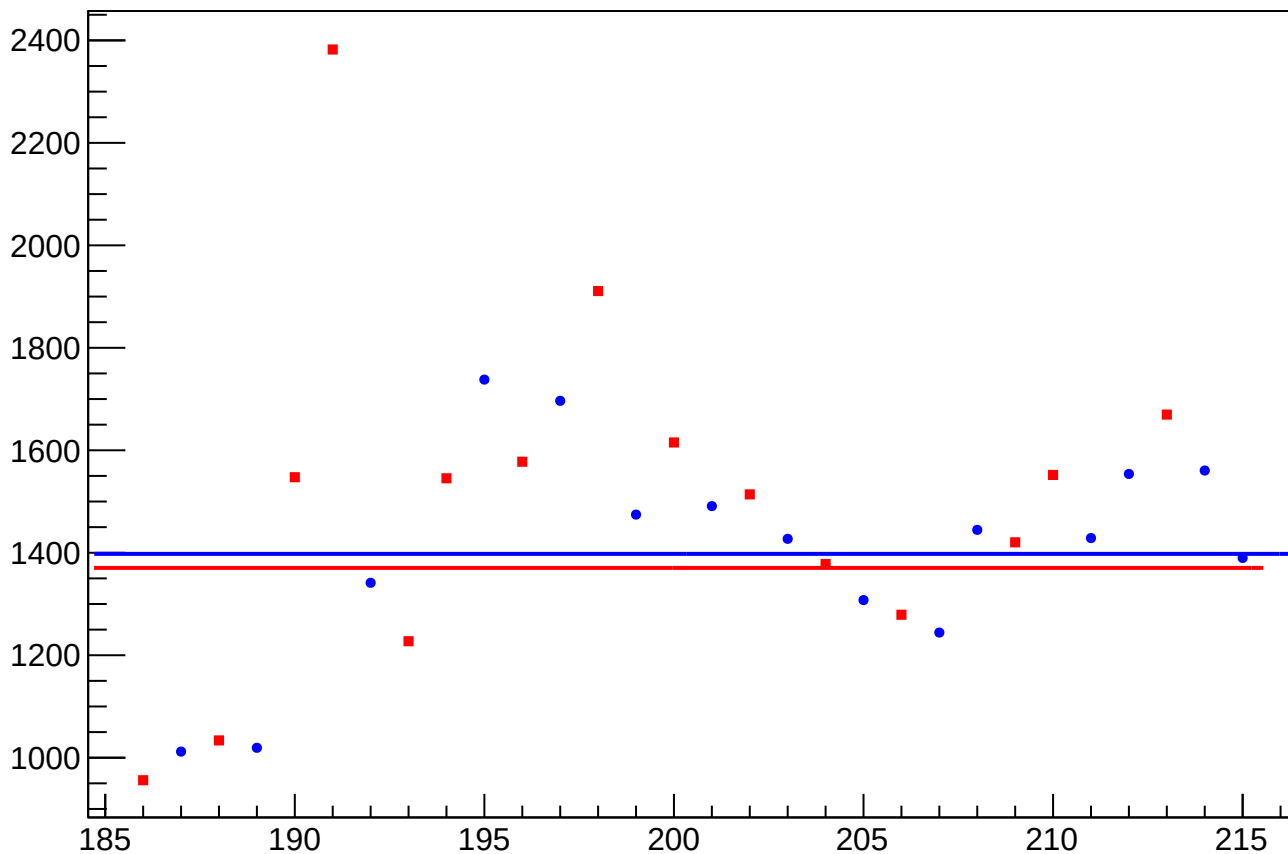
Right: -140.488+/-308.250 χ^2/NDF : 39.2/29

In: -897.613+/-432.317 χ^2/NDF : 15.4/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -140.488+/-308.250 χ^2/NDF : 39.2/29

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1397.840+/-0.306 χ^2/NDF : 350547.5/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1370.455+/-0.311 χ^2/NDF : 739344.3/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

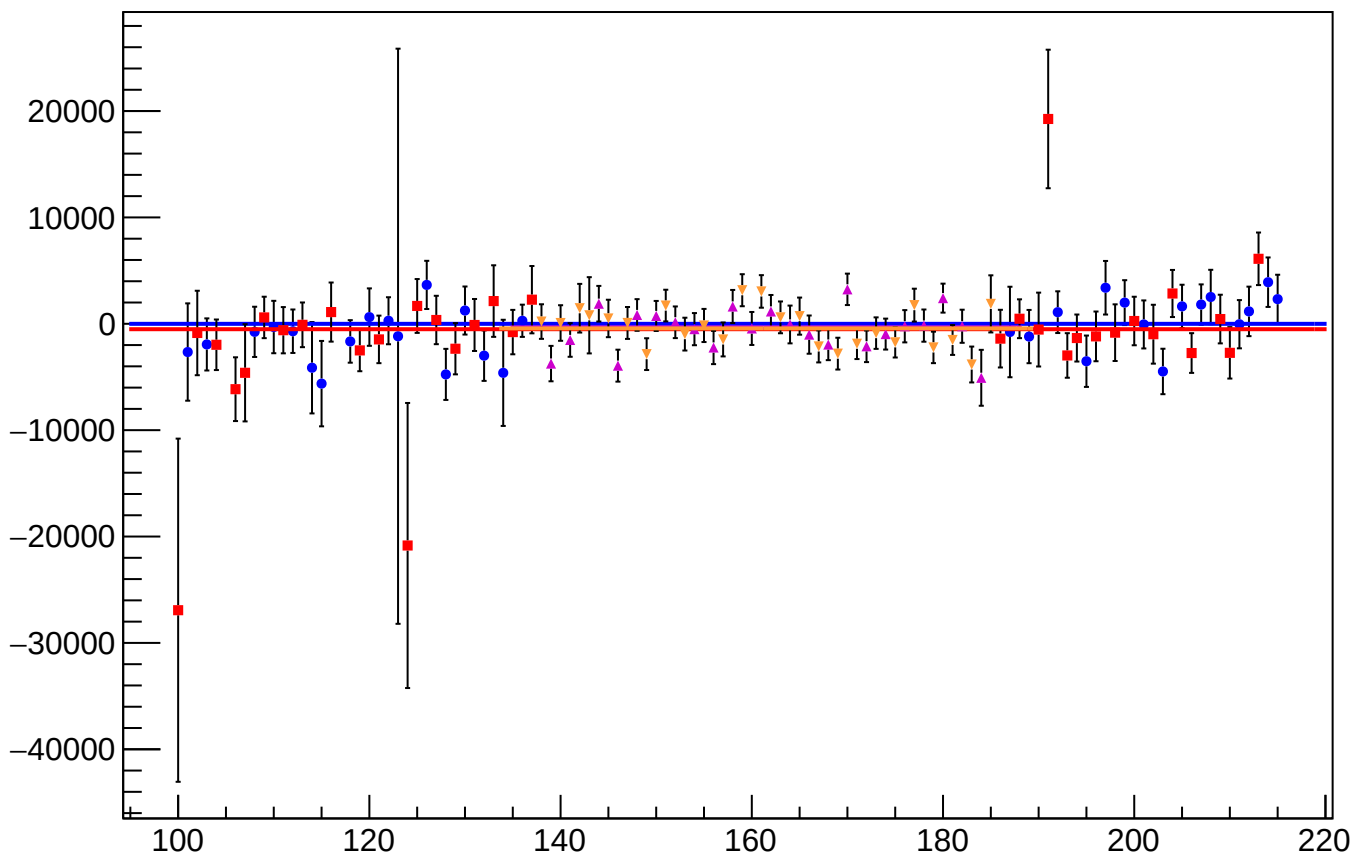
Right: 1384.377+/-0.218 χ^2/NDF : 1093837.1/29

In: 1397.840+/-0.306 χ^2/NDF : 350547.5/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1384.377+/-0.218 χ^2/NDF : 1093837.1/29

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -3.701 ± 422.631 χ^2/NDF : 30.6/31

Left Out: -431.715 ± 320.540 χ^2/NDF : 33.1/24

Right Out: -509.058 ± 428.422 χ^2/NDF : 37.8/33

Left In: -343.737 ± 324.368 χ^2/NDF : 33.8/22

Left: -388.248 ± 227.997 χ^2/NDF : 66.9/47

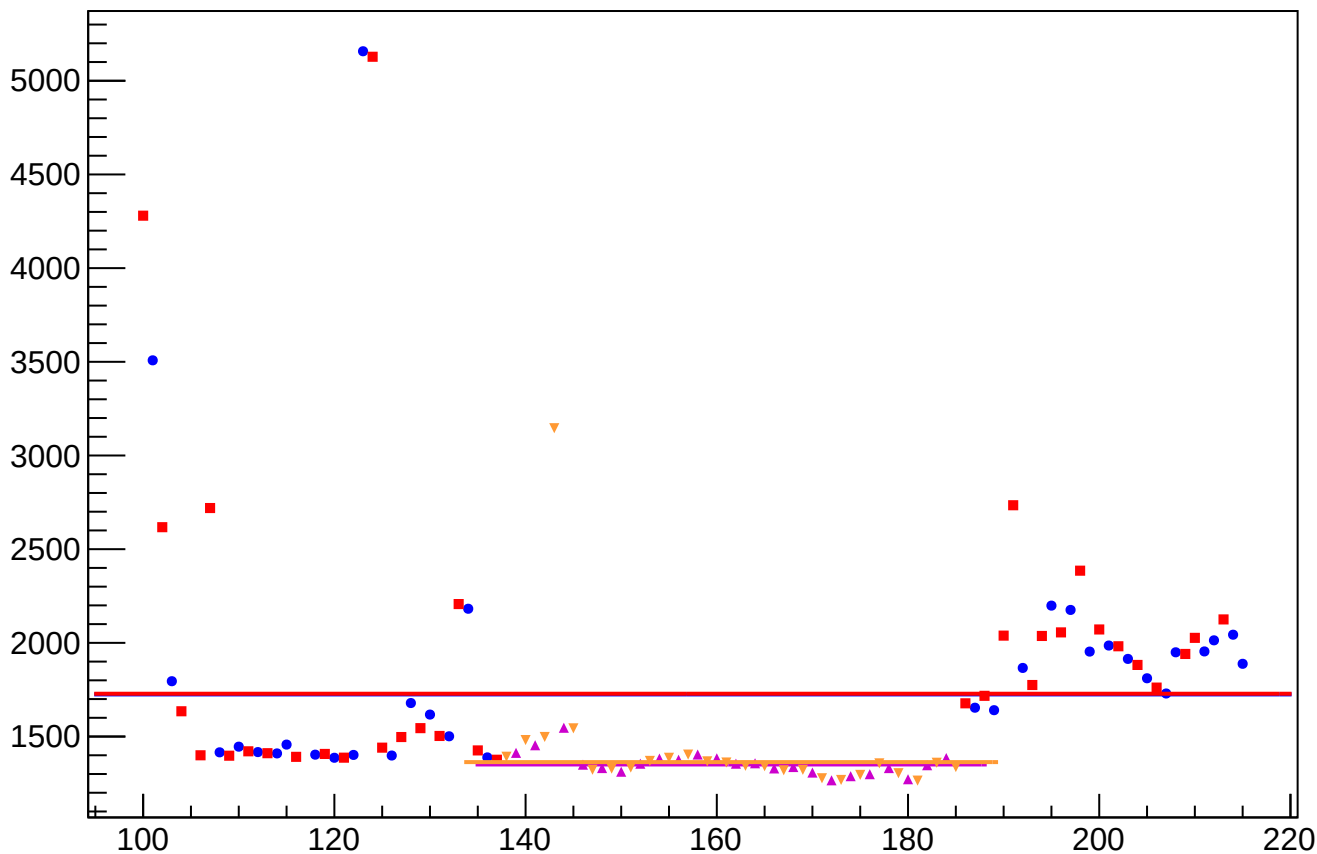
Right: -252.941 ± 300.872 χ^2/NDF : 69.2/65

In: -217.688 ± 257.318 χ^2/NDF : 64.8/54

Out: -459.472 ± 256.655 χ^2/NDF : 70.9/58

All: -338.892 ± 181.716 χ^2/NDF : 136.2/113

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1724.760+/-0.299 χ^2/NDF : 1106630.6/31

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1728.447+/-0.303 χ^2/NDF : 1292639.3/33

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

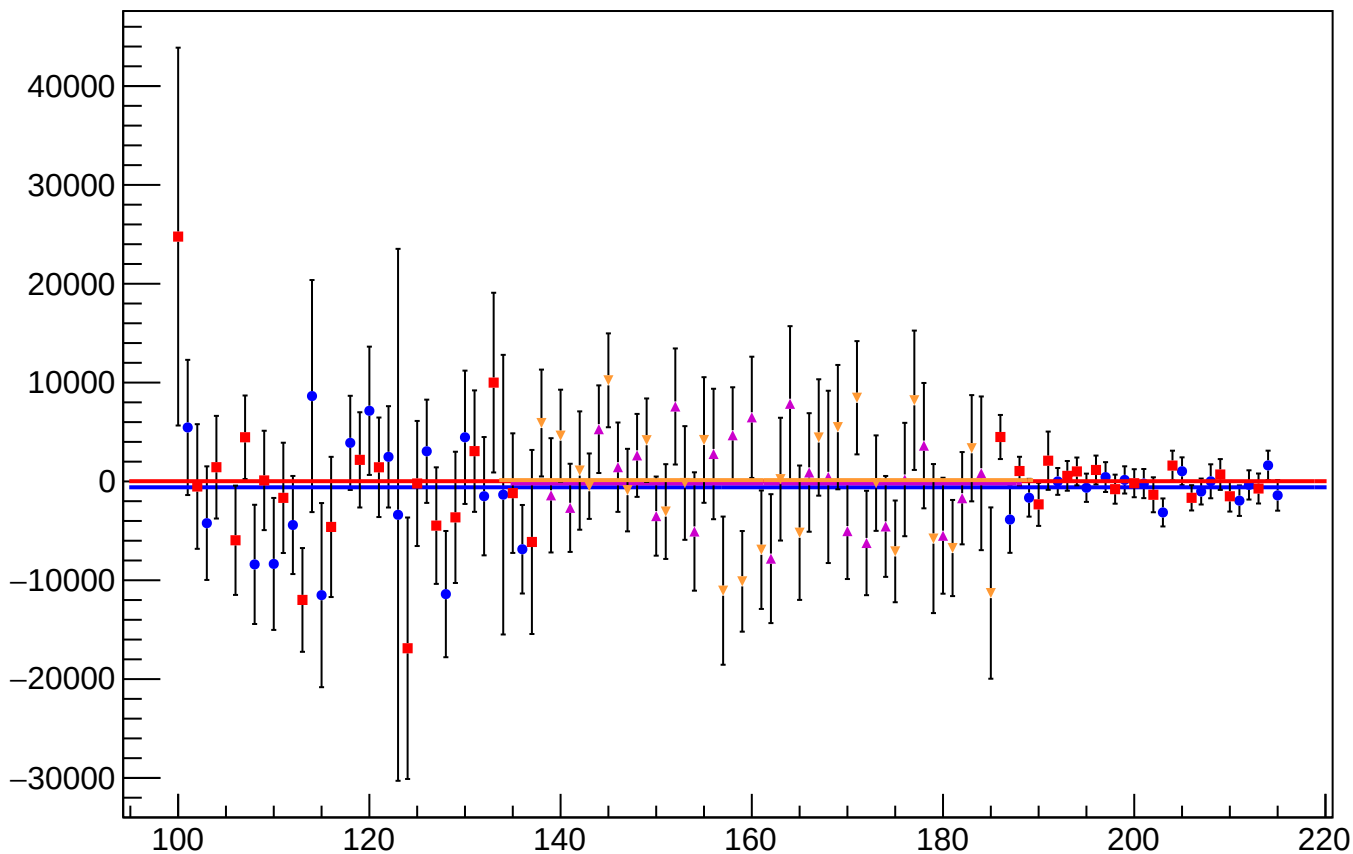
Right: 1726.578+/-0.213 χ^2/NDF : 2399344.9/65

In: 1489.494+/-0.182 χ^2/NDF : 2158620.6/54

Out: 1494.514+/-0.181 χ^2/NDF : 2797984.0/58

All: 1492.011+/-0.128 χ^2/NDF : 4956986.3/11

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -593.407 $\pm$ 380.142 χ^2 /NDF: 25.7/31

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: 22.961 $\pm$ 390.919 χ^2 /NDF: 27.1/33

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF:14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

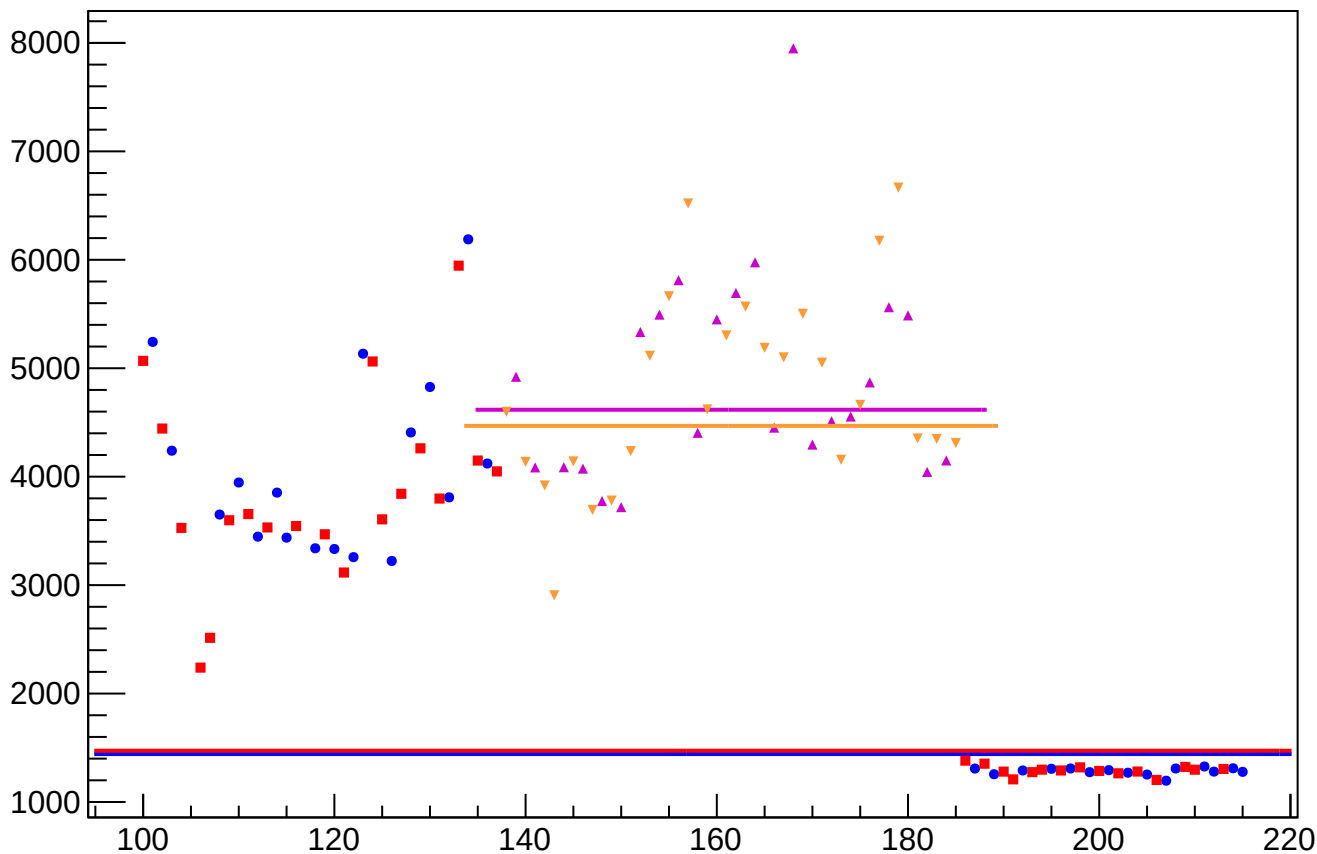
Right: -293.836 $\pm$ 272.532 χ^2 /NDF: 54.1/65

In: -553.013 $\pm$ 360.089 χ^2 /NDF:40.6/54

Out: 35.913 $\pm$ 367.000 χ^2 /NDF:55.2/58

All: -264.148 $\pm$ 257.030 χ^2 /NDF: 97.1/113

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1442.016 $\pm$ 0.269 χ^2/NDF : 5692013.4/31

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 1473.008 $\pm$ 0.276 χ^2/NDF : 5482209.3/33

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

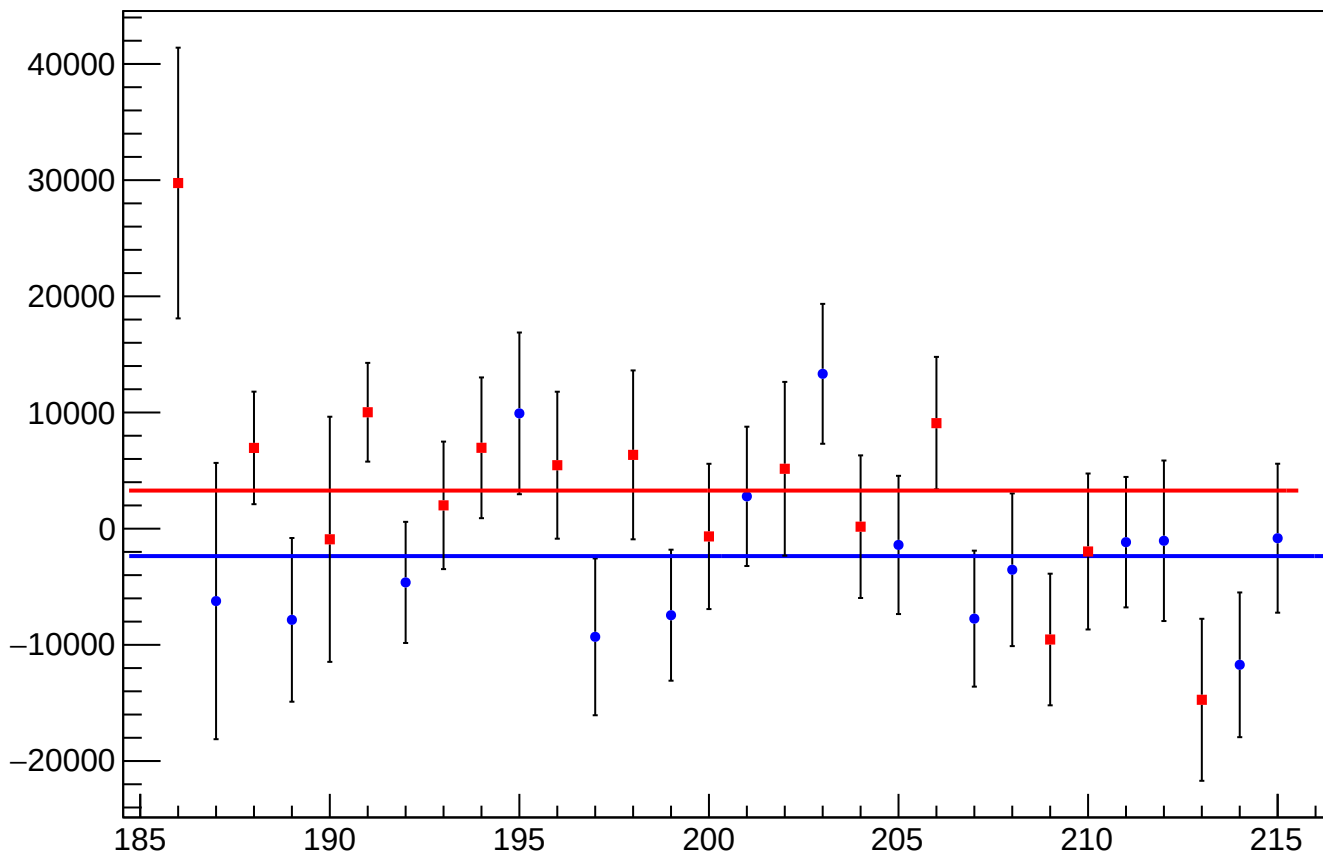
Right: 1457.090 $\pm$ 0.193 χ^2/NDF : 11180688.7/65

In: 1768.193 $\pm$ 0.255 χ^2/NDF : 21025821.2/54

Out: 1827.898 $\pm$ 0.259 χ^2/NDF : 20796476.8/58

All: 1797.497 $\pm$ 0.182 χ^2/NDF : 41849285.3/171

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2359.880+/-1628.997 χ^2/NDF : 16.7/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 3279.451+/-1594.363 χ^2/NDF : 23.3/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

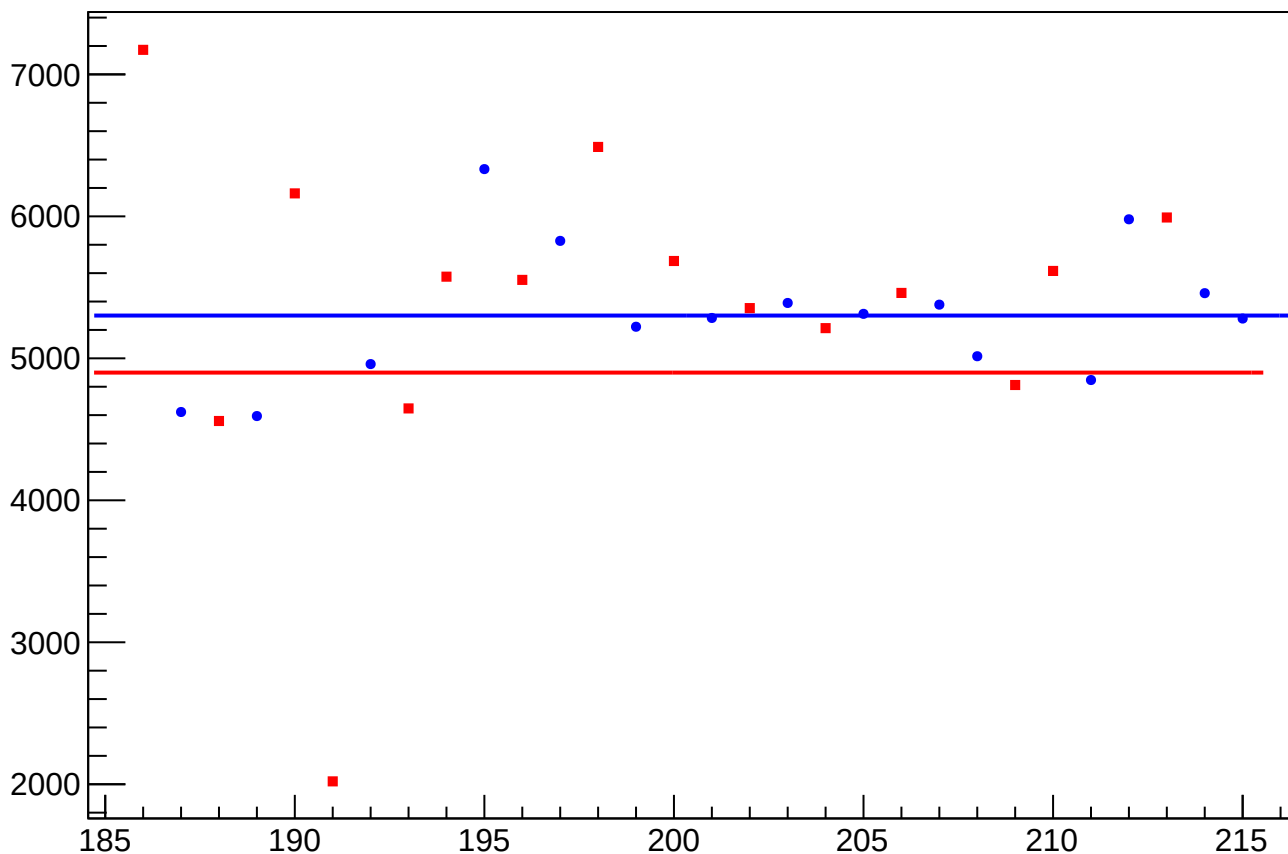
Right: 520.372+/-1139.433 χ^2/NDF : 46.1/29

In: -2359.880+/-1628.997 χ^2/NDF : 16.7/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 520.372+/-1139.433 χ^2/NDF : 46.1/29

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5301.344+/-1.152 χ^2/NDF : 130035.3/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4899.540+/-1.127 χ^2/NDF : 1314616.1/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

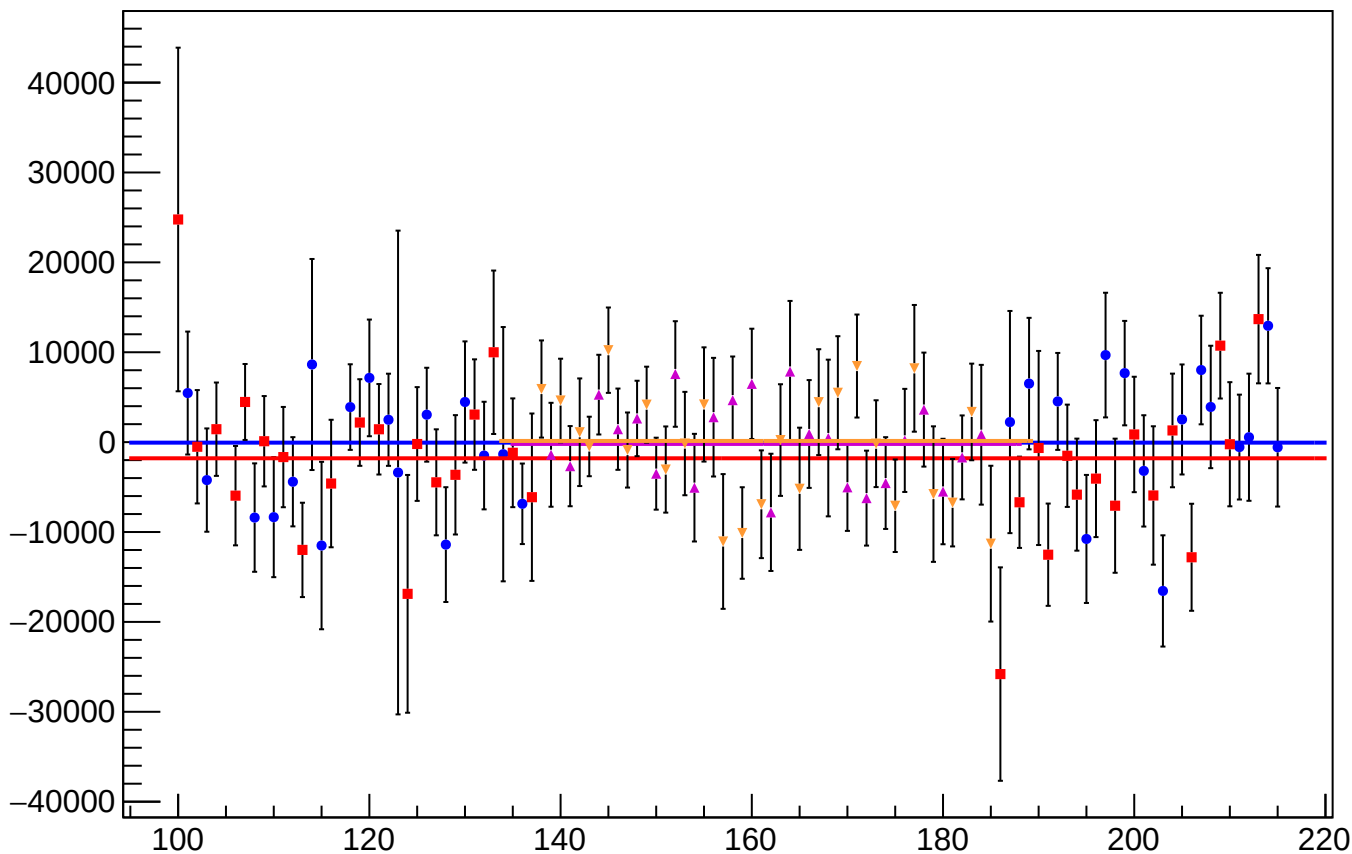
Right: 5096.125+/-0.806 χ^2/NDF : 1506798.5/29

In: 5301.344+/-1.152 χ^2/NDF : 130035.3/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5096.125+/-0.806 χ^2/NDF : 1506798.5/29

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -57.237 ± 1126.178 $\chi^2/\text{NDF}: 37.4/31$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1797.397 ± 1071.445 $\chi^2/\text{NDF}: 37.5/33$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

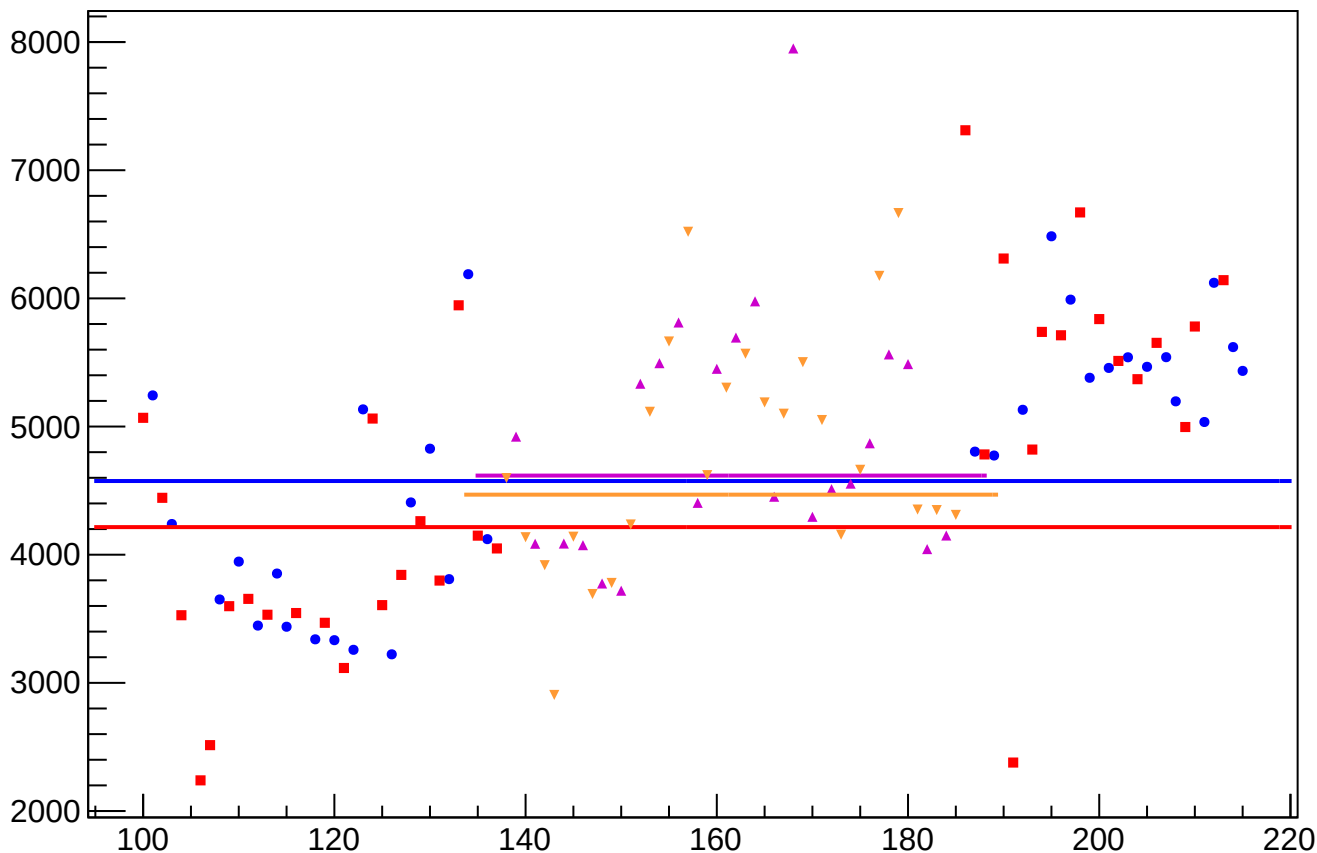
Right: -970.630 ± 776.254 $\chi^2/\text{NDF}: 76.1/65$

In: -128.880 ± 795.379 $\chi^2/\text{NDF}: 52.1/54$

Out: -827.298 ± 755.531 $\chi^2/\text{NDF}: 67.3/58$

All: -496.022 ± 547.787 $\chi^2/\text{NDF}: 119.8/113$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4574.917 $\pm$ 0.796 χ^2 /NDF: 1473094.4/31

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 4215.252 $\pm$ 0.753 χ^2 /NDF: 2620723.4/33

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

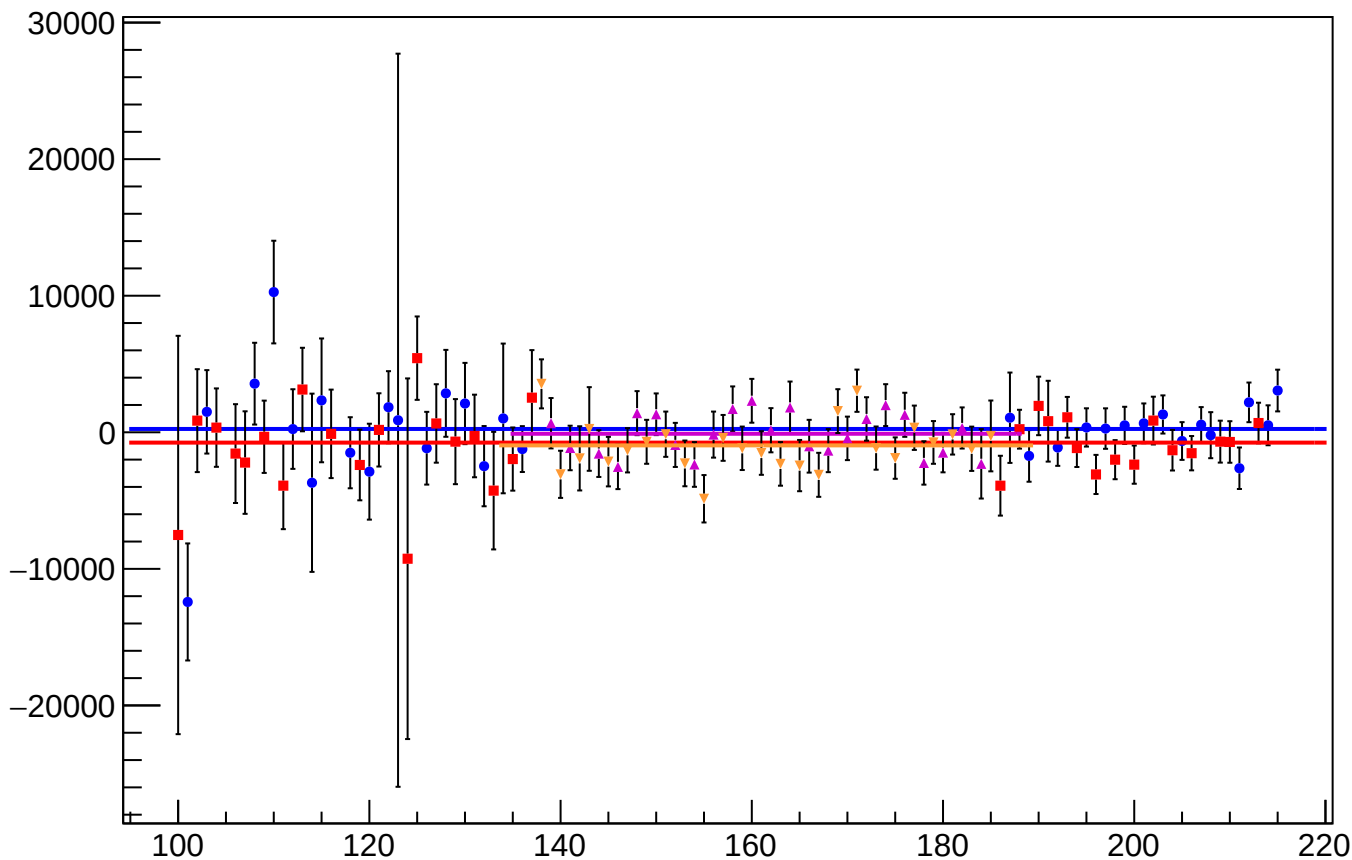
Right: 4385.140 $\pm$ 0.547 χ^2 /NDF: 4201457.0/65

In: 4596.155 $\pm$ 0.562 χ^2 /NDF:2474113.6/54

Out: 4341.883 $\pm$ 0.533 χ^2 /NDF:4057821.9/58

All: 4462.140 $\pm$ 0.387 χ^2 /NDF: 6639666.4/11

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 244.184+/-343.838 χ^2/NDF : 34.6/31

Left Out: -958.410+/-339.496 χ^2/NDF :28.5/24

Right Out: -756.191+/-352.256 χ^2/NDF : 23.6/33

Left In: -107.512+/-343.663 χ^2/NDF :19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

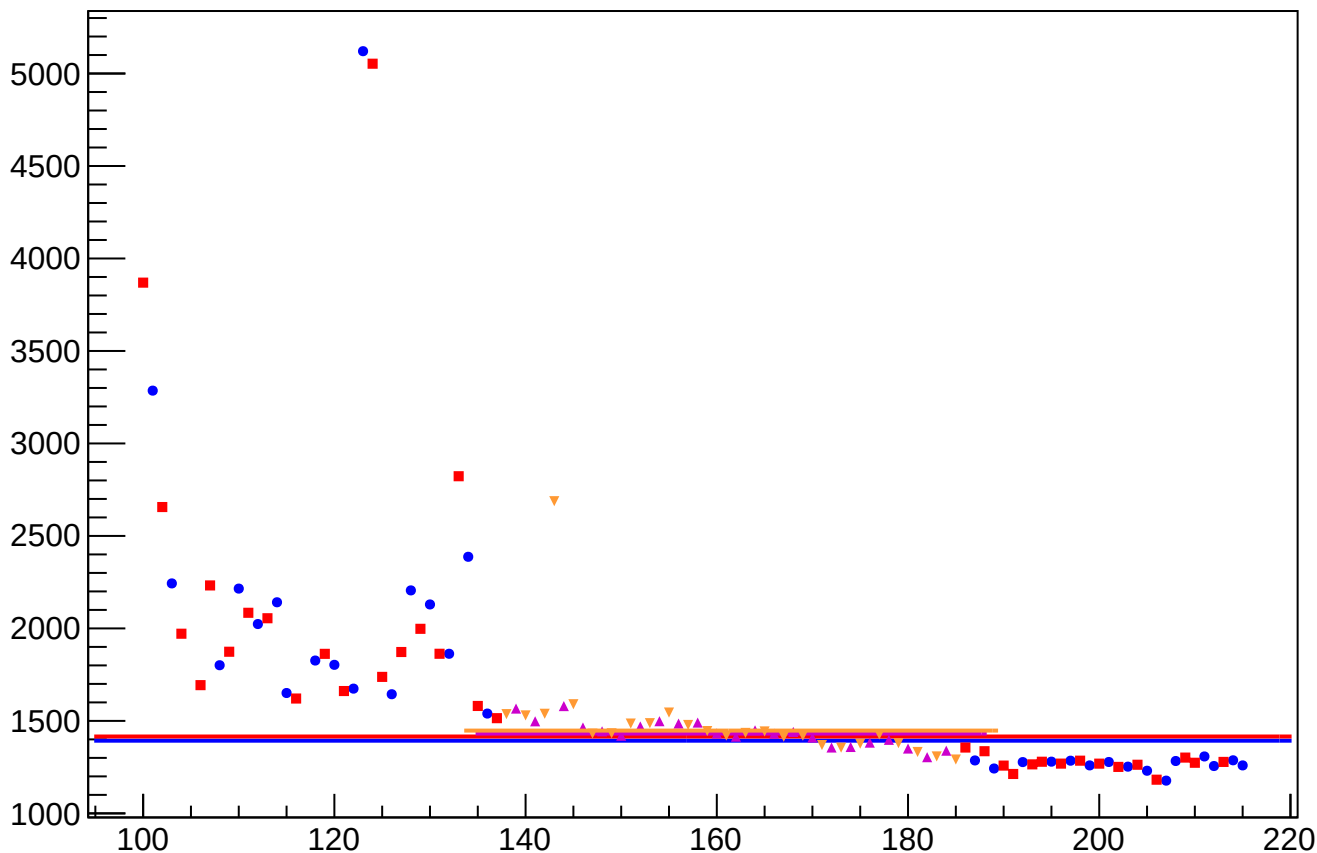
Right: -243.907+/-246.052 χ^2/NDF : 62.4/65

In: 68.246+/-243.068 χ^2/NDF :54.6/54

Out: -861.029+/-244.447 χ^2/NDF :52.3/58

All: -393.764+/-172.360 χ^2/NDF : 114.2/113

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1393.016 $\pm$ 0.243 χ^2 /NDF: 1598790.1/31

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1415.598 $\pm$ 0.249 χ^2 /NDF: 1619497.0/33

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

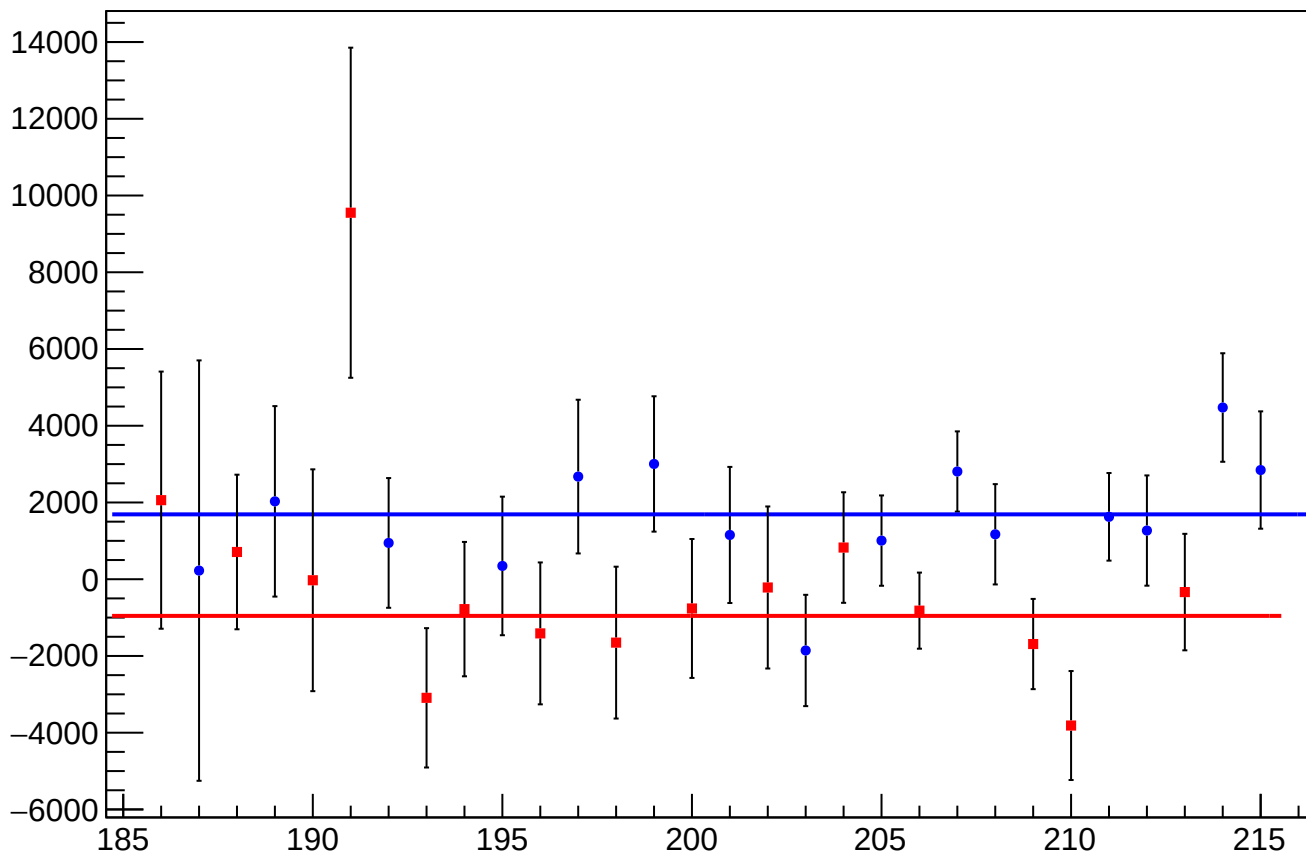
Right: 1404.034 $\pm$ 0.174 χ^2 /NDF: 3222496.0/65

In: 1412.246 $\pm$ 0.172 χ^2 /NDF: 1686425.0/54

Out: 1432.165 $\pm$ 0.173 χ^2 /NDF: 2047285.5/58

All: 1422.149 $\pm$ 0.122 χ^2 /NDF: 3740388.5/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1690.450+/-388.754 χ^2/NDF : 13.9/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -955.667+/-431.633 χ^2/NDF : 15.4/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

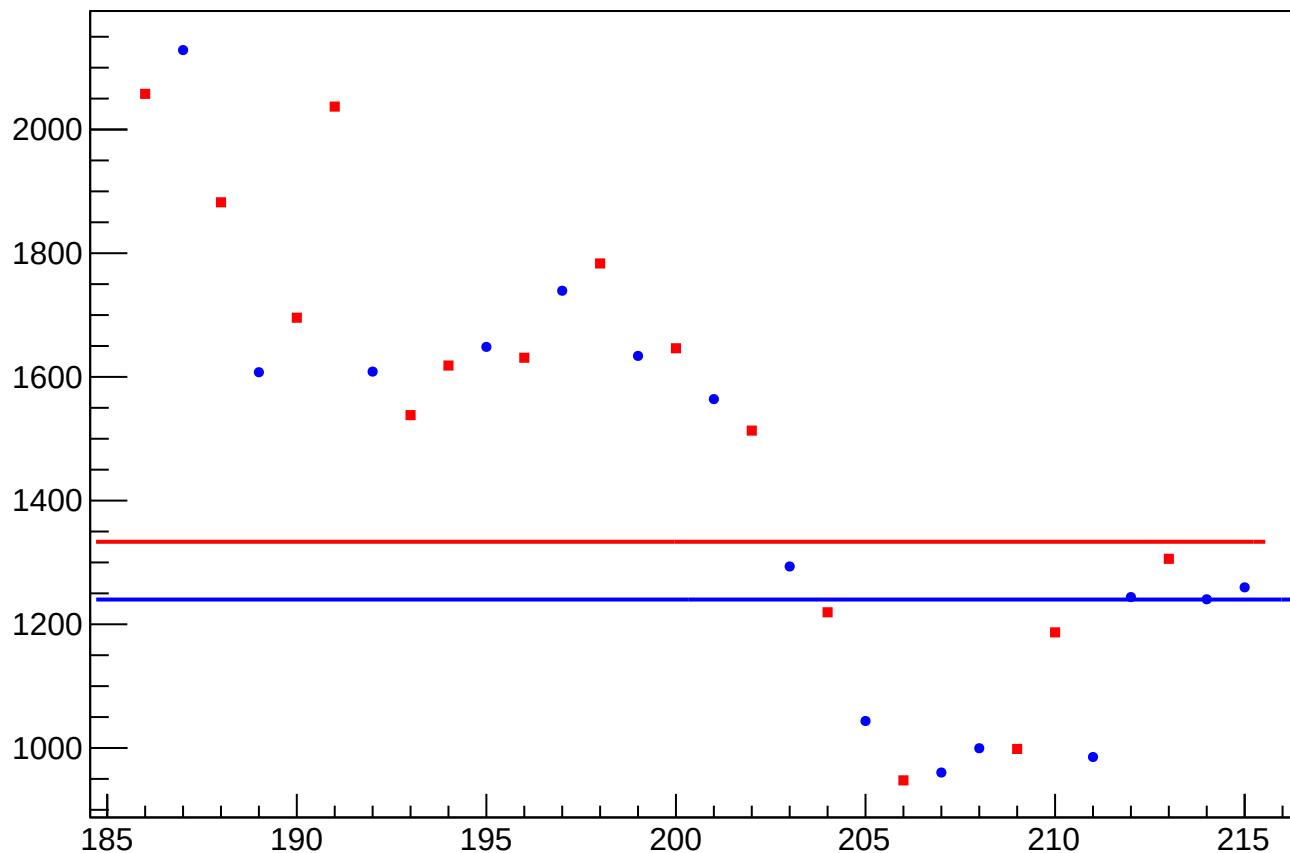
Right: 505.318+/-288.864 χ^2/NDF : 50.1/29

In: 1690.450+/-388.754 χ^2/NDF : 13.9/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 505.318+/-288.864 χ^2/NDF : 50.1/29

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1240.021+/-0.275 χ^2/NDF : 953622.7/14

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1333.410+/-0.305 χ^2/NDF : 1134065.5/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

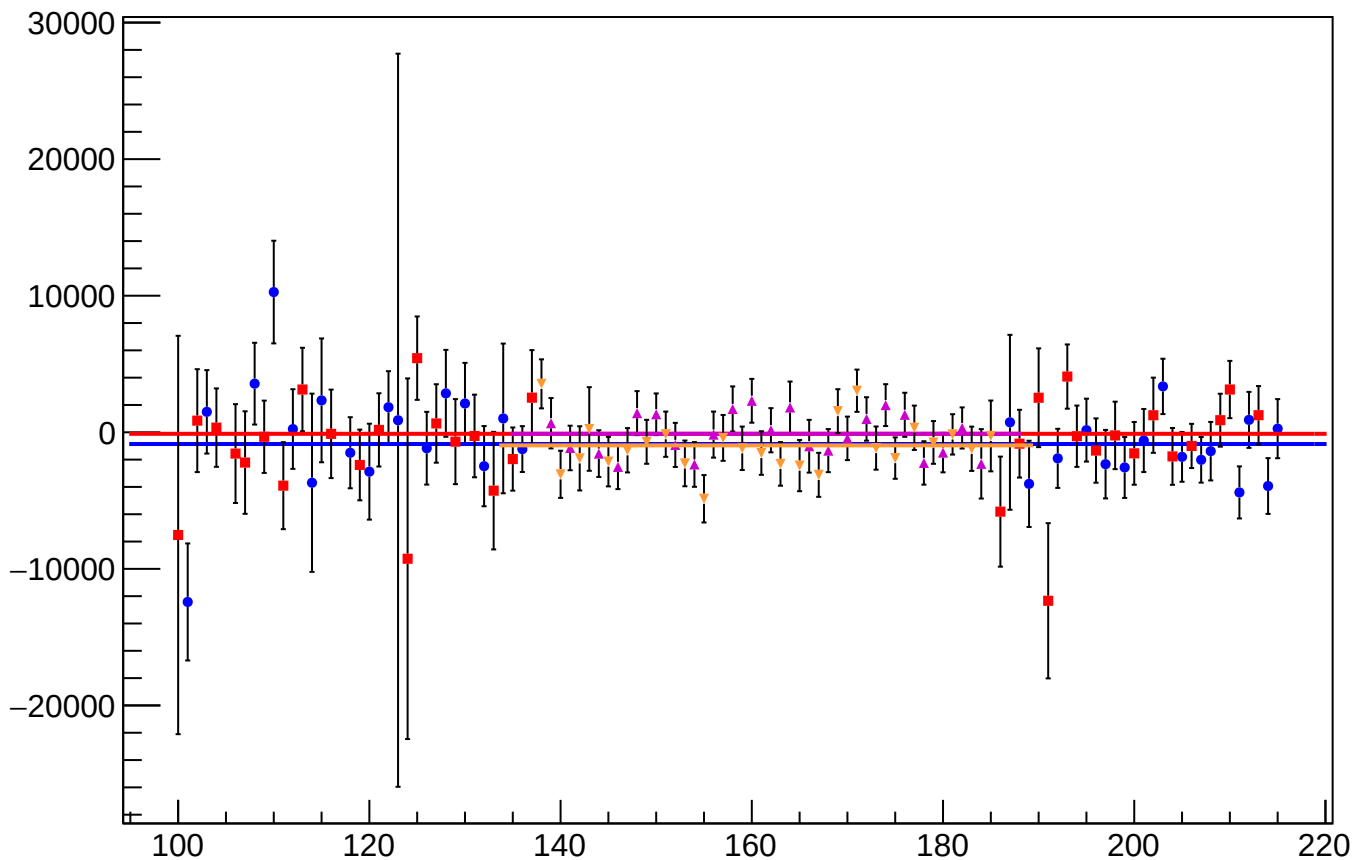
Right: 1281.848+/-0.204 χ^2/NDF : 2139381.6/29

In: 1240.021+/-0.275 χ^2/NDF : 953622.7/14

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1281.848+/-0.204 χ^2/NDF : 2139381.6/29

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -858.455 ± 450.598 χ^2/NDF : 38.1/31

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -111.192 ± 468.872 χ^2/NDF : 25.5/33

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

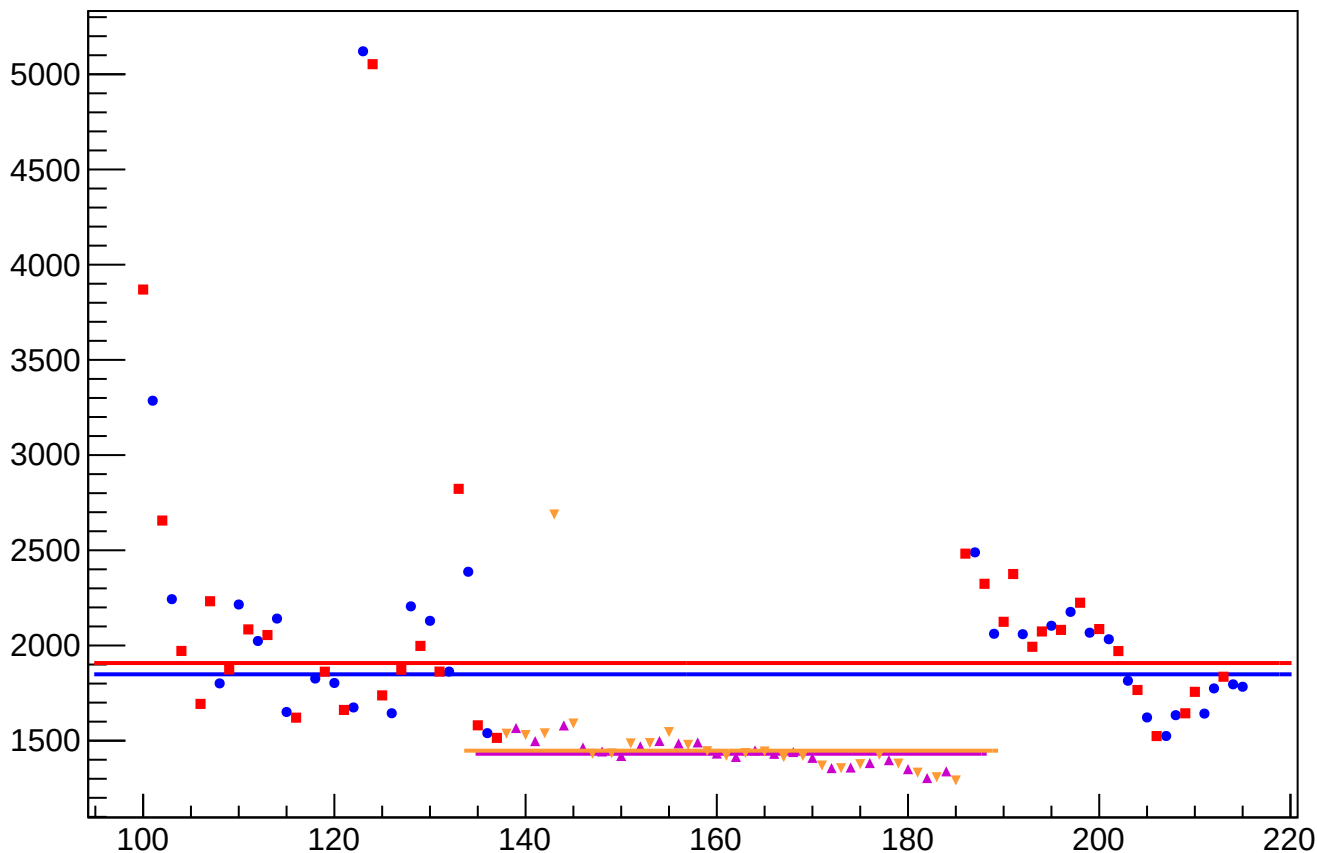
Right: -499.669 ± 324.889 χ^2/NDF : 64.9/65

In: -383.680 ± 273.258 χ^2/NDF : 59.3/54

Out: -667.008 ± 274.981 χ^2/NDF : 56.2/58

All: -524.454 ± 193.829 χ^2/NDF : 116.0/113

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1848.653+/-0.319 χ^2/NDF : 768205.5/31

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1907.866+/-0.332 χ^2/NDF : 819835.2/33

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

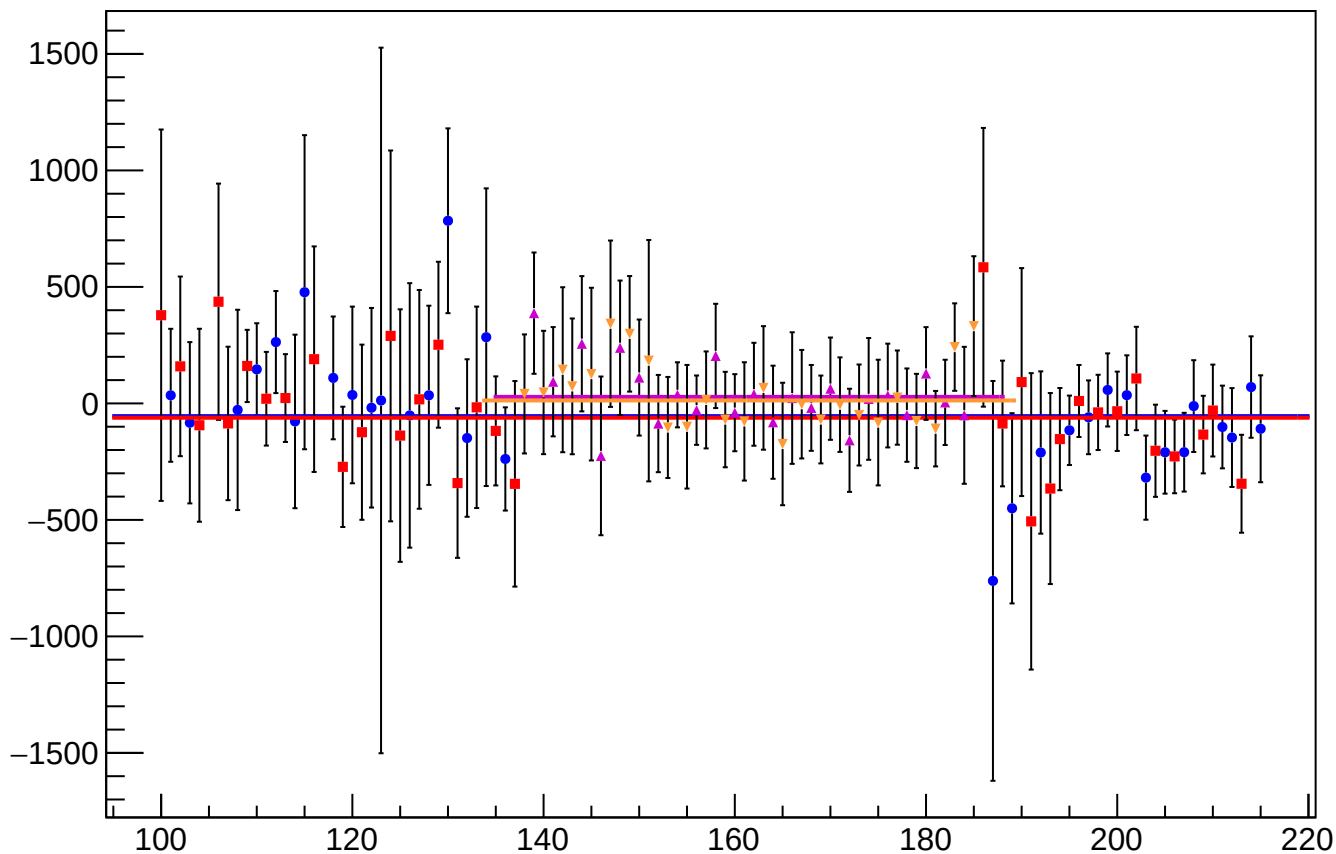
Right: 1877.083+/-0.230 χ^2/NDF : 1604623.6/65

In: 1584.885+/-0.193 χ^2/NDF : 1927302.5/54

Out: 1605.881+/-0.194 χ^2/NDF : 2503728.4/58

All: 1595.317+/-0.137 χ^2/NDF : 4436897.6/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.547 ± 42.662 $\chi^2/\text{NDF}: 17.1/31$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -61.465 ± 43.078 $\chi^2/\text{NDF}: 14.2/33$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

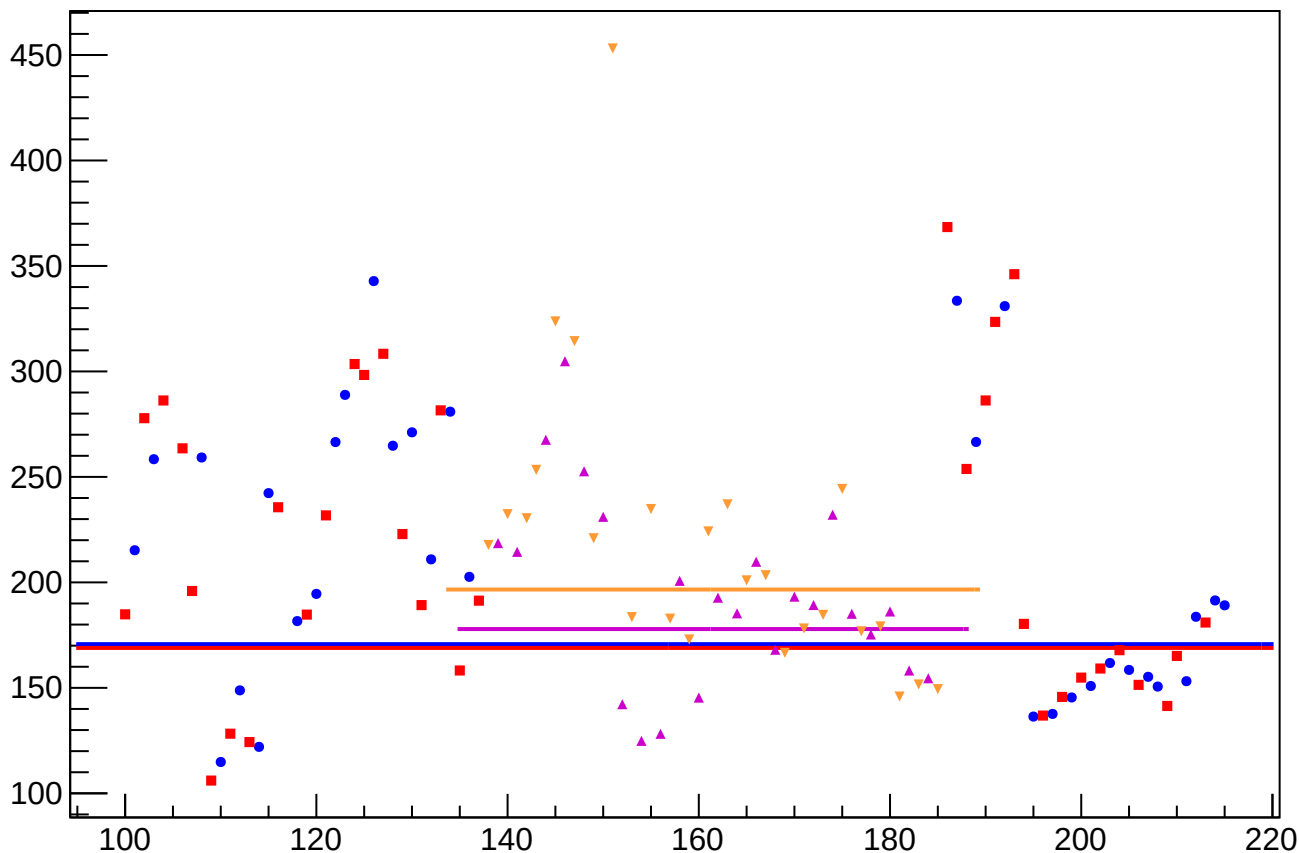
Right: -57.972 ± 30.313 $\chi^2/\text{NDF}: 31.3/65$

In: -15.073 ± 30.804 $\chi^2/\text{NDF}: 25.4/54$

Out: -28.020 ± 31.906 $\chi^2/\text{NDF}: 23.2/58$

All: -21.319 ± 22.161 $\chi^2/\text{NDF}: 48.7/113$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.722 $\pm$ 0.030 χ^2 /NDF: 2170296.7/31

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 168.937 $\pm$ 0.030 χ^2 /NDF: 2838720.3/33

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

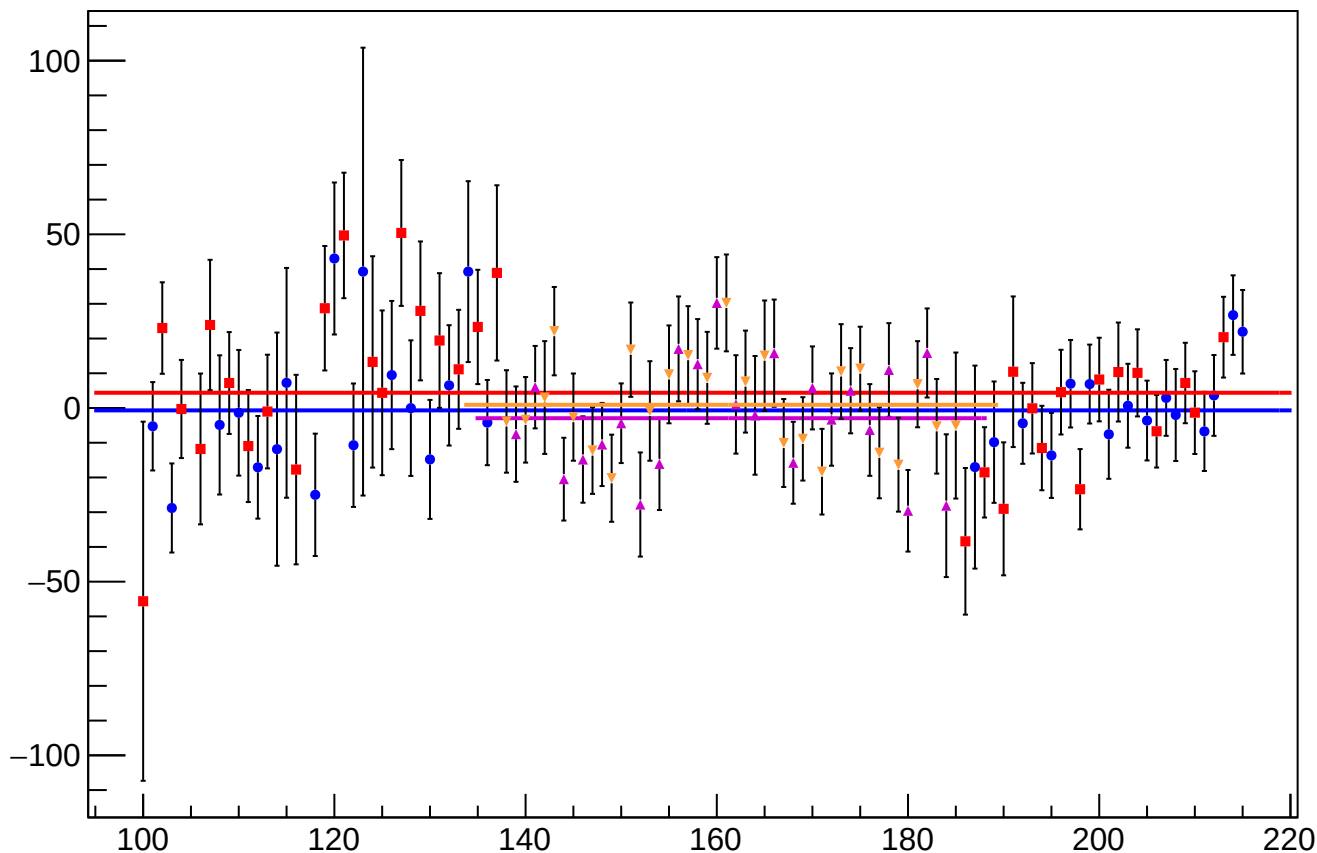
Right: 169.838 $\pm$ 0.021 χ^2 /NDF: 5010751.1/65

In: 174.147 $\pm$ 0.022 χ^2 /NDF:3841316.7/54

Out: 181.434 $\pm$ 0.023 χ^2 /NDF:5005087.1/58

All: 177.663 $\pm$ 0.016 χ^2 /NDF: 8900398.8/113

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.686 ± 2.588 χ^2/NDF : 29.3/31

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 4.389 ± 2.636 χ^2/NDF : 46.9/33

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

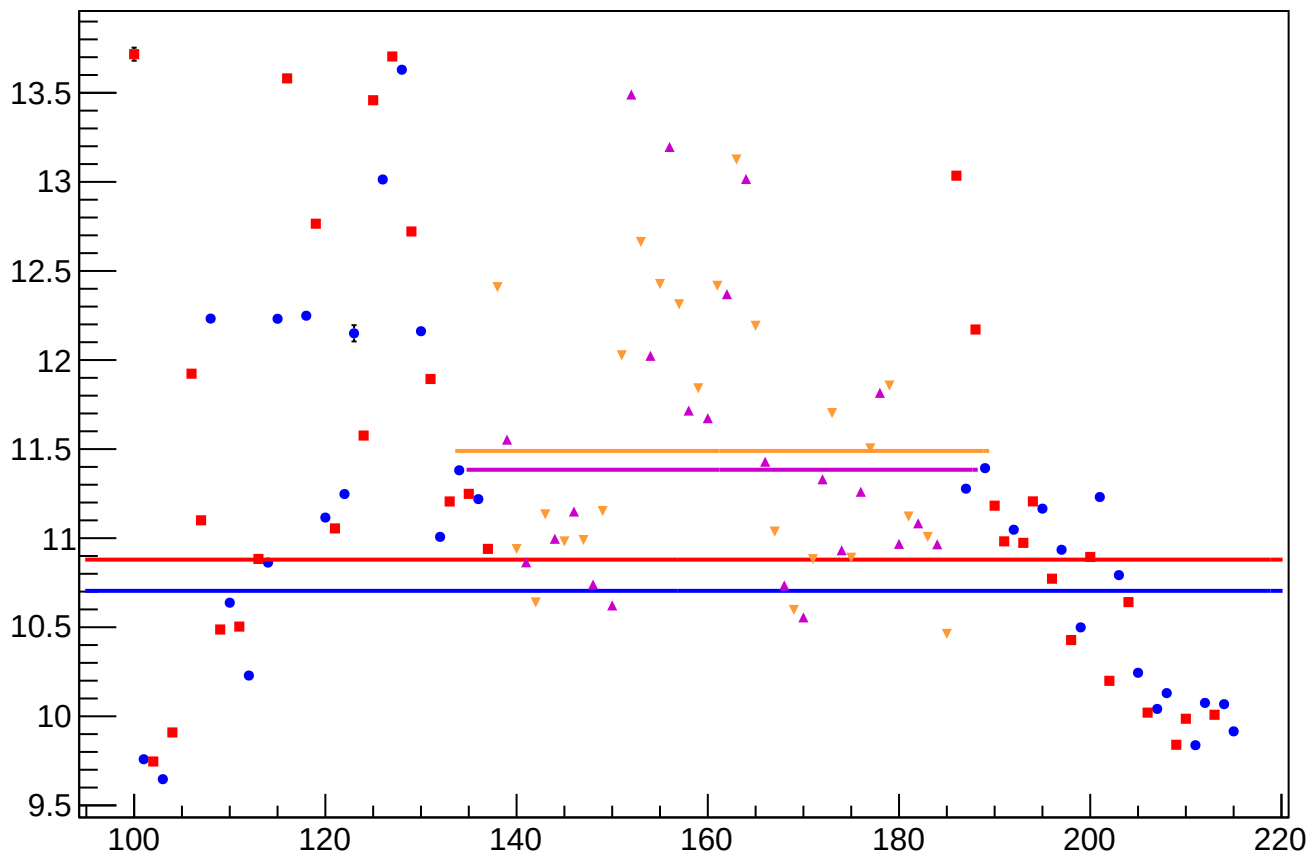
Right: 1.805 ± 1.847 χ^2/NDF : 78.1/65

In: -1.747 ± 1.883 χ^2/NDF : 60.7/54

Out: 2.694 ± 1.885 χ^2/NDF : 71.7/58

All: 0.471 ± 1.332 χ^2/NDF : 135.2/113

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.704 $\pm$ 0.002 χ^2/NDF : 209681.8/31

Left Out: 11.490 $\pm$ 0.002 χ^2/NDF : 132399.1/24

Right Out: 10.879 $\pm$ 0.002 χ^2/NDF : 267939.7/33

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

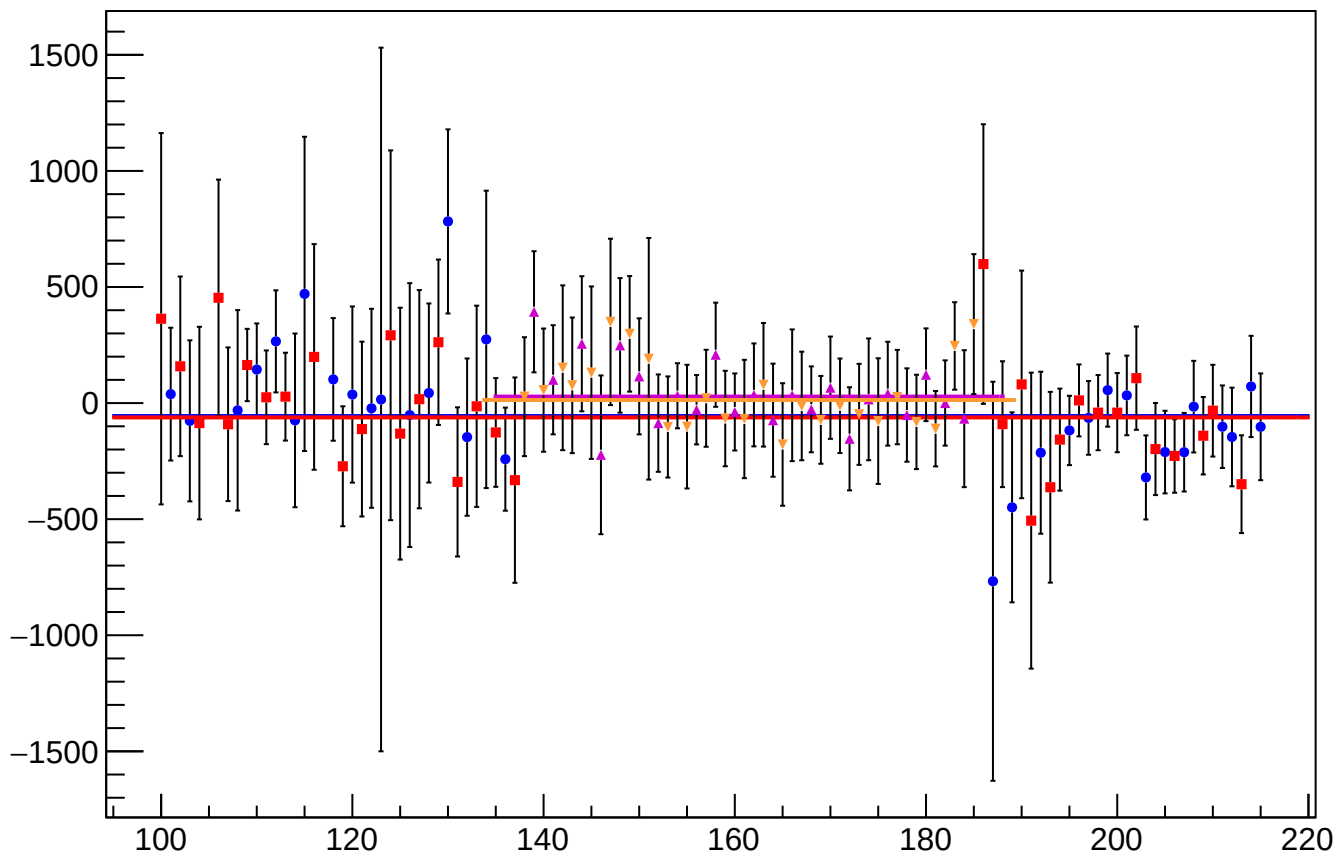
Right: 10.790 $\pm$ 0.001 χ^2/NDF : 482117.9/65

In: 11.024 $\pm$ 0.001 χ^2/NDF : 424419.0/54

Out: 11.178 $\pm$ 0.001 χ^2/NDF : 452742.2/58

All: 11.101 $\pm$ 0.001 χ^2/NDF : 883797.6/113

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.734 ± 42.764 $\chi^2/\text{NDF}: 17.0/31$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -61.828 ± 43.191 $\chi^2/\text{NDF}: 14.4/33$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

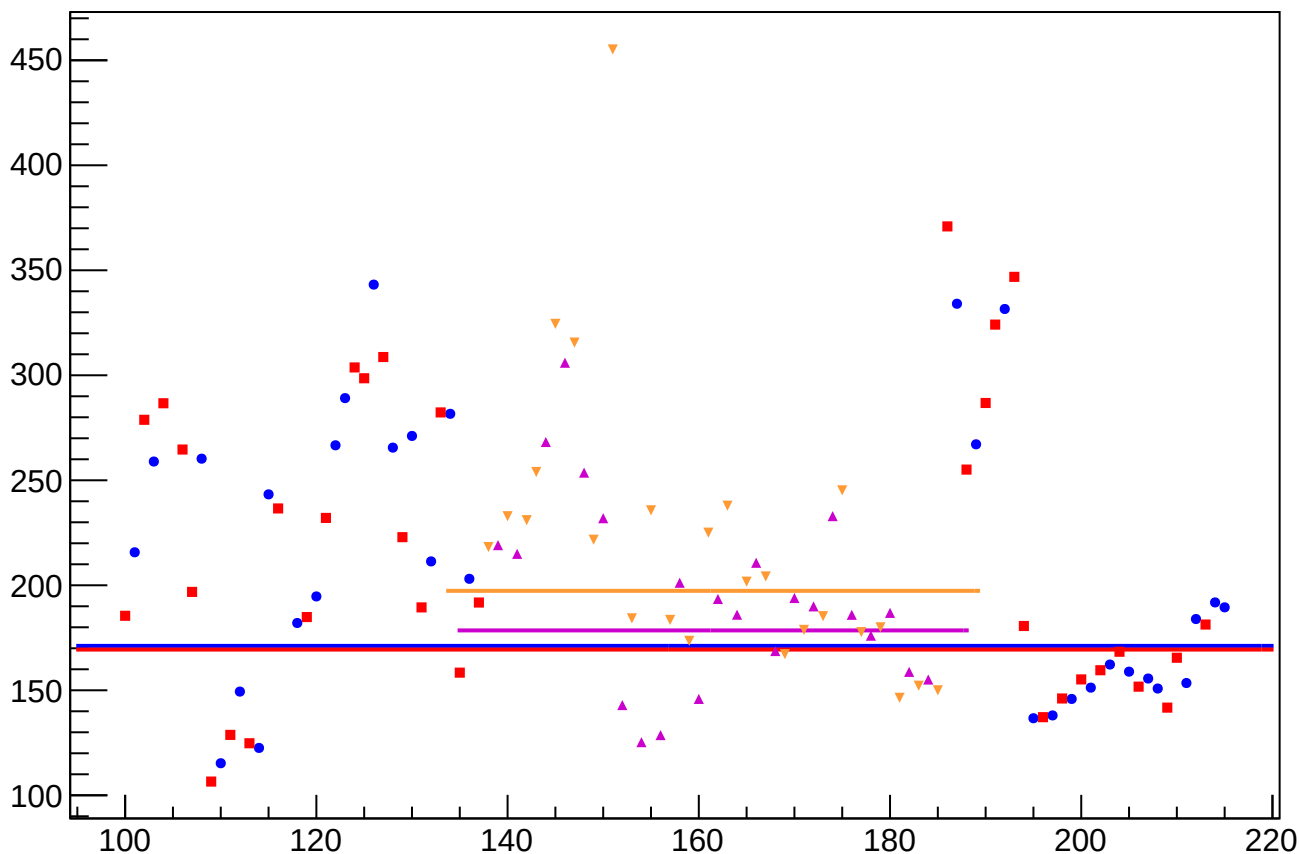
Right: -58.751 ± 30.388 $\chi^2/\text{NDF}: 31.5/65$

In: -15.678 ± 30.894 $\chi^2/\text{NDF}: 25.5/54$

Out: -27.943 ± 32.005 $\chi^2/\text{NDF}: 23.7/58$

All: -21.594 ± 22.228 $\chi^2/\text{NDF}: 49.2/113$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.144+/-0.030 χ^2/NDF : 2165234.1/31

Left Out: 197.355+/-0.034 χ^2/NDF :1790824.5/24

Right Out: 169.387+/-0.031 χ^2/NDF : 2835303.9/33

Left In: 178.512+/-0.032 χ^2/NDF :1642304.1/22

Left: 187.326+/-0.023 χ^2/NDF : 3599509.2/47

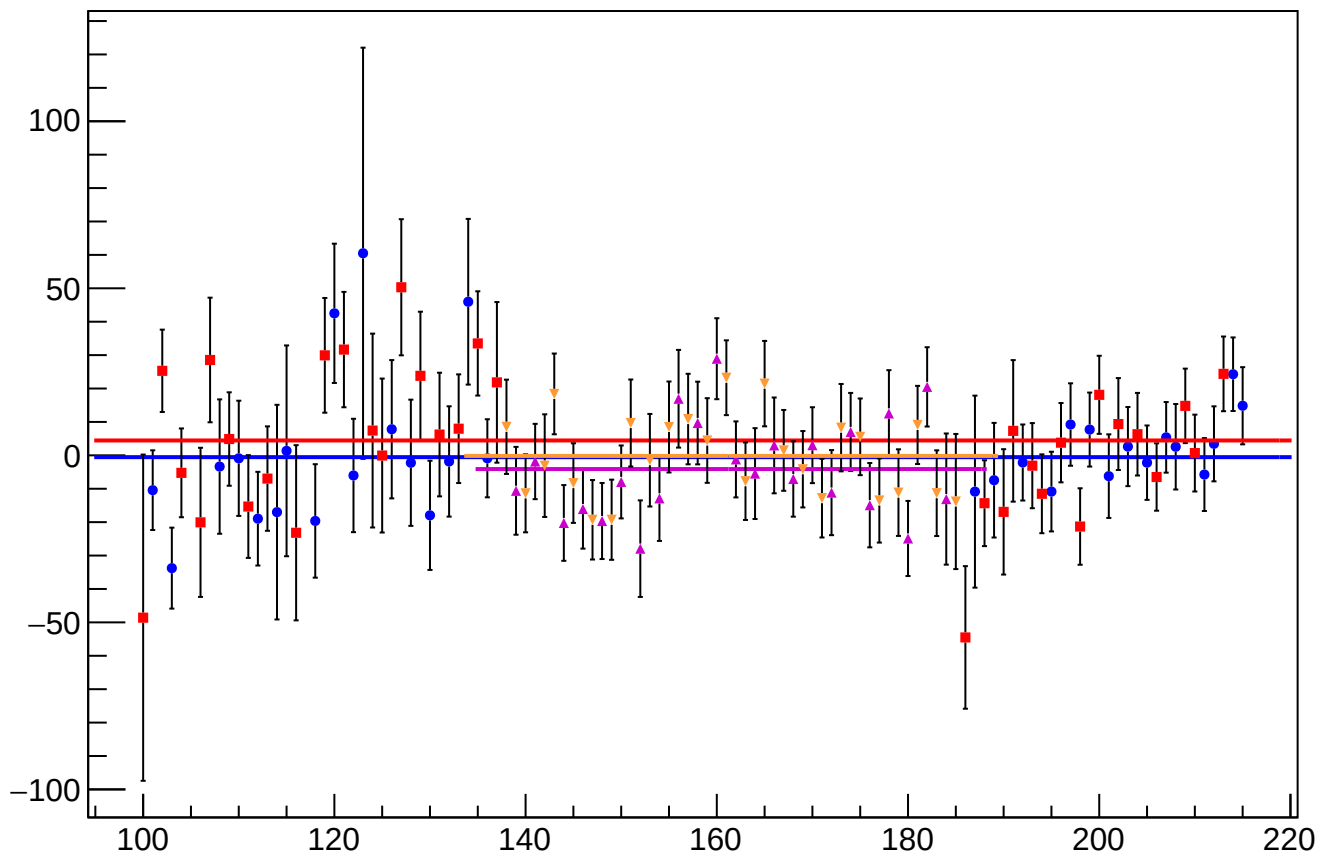
Right: 170.274+/-0.021 χ^2/NDF : 5002208.6/65

In: 174.666+/-0.022 χ^2/NDF :3835926.1/54

Out: 181.998+/-0.023 χ^2/NDF :5004278.8/58

All: 178.203+/-0.016 χ^2/NDF : 8894533.7/113

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.543 ± 2.496 χ^2/NDF : 31.8/31

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 4.453 ± 2.549 χ^2/NDF : 50.8/33

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

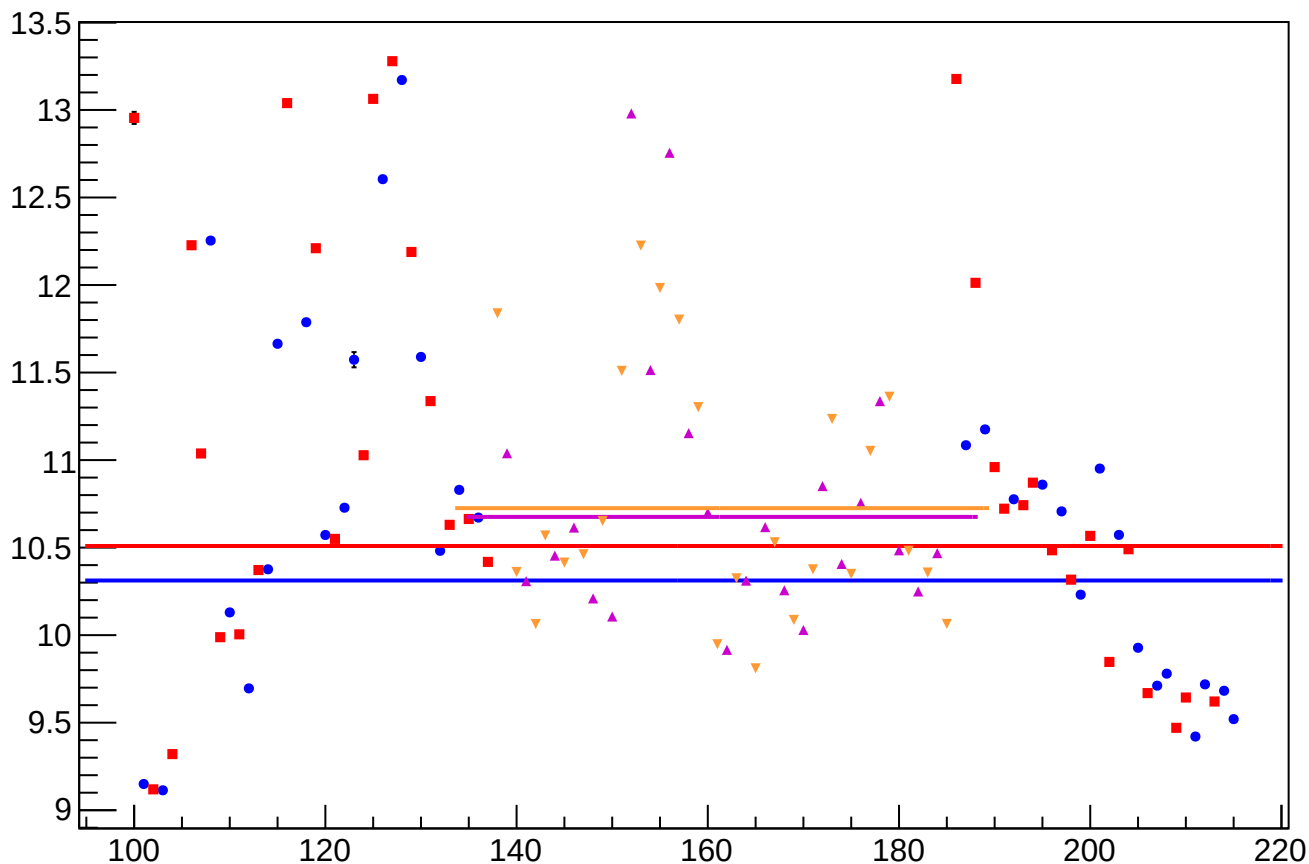
Right: 1.902 ± 1.783 χ^2/NDF : 84.5/65

In: -2.268 ± 1.793 χ^2/NDF : 64.3/54

Out: 2.115 ± 1.792 χ^2/NDF : 76.8/58

All: -0.076 ± 1.268 χ^2/NDF : 144.1/113

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.312 $\pm$ 0.002 χ^2 /NDF: 237514.7/31

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.509 $\pm$ 0.002 χ^2 /NDF: 308065.3/33

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

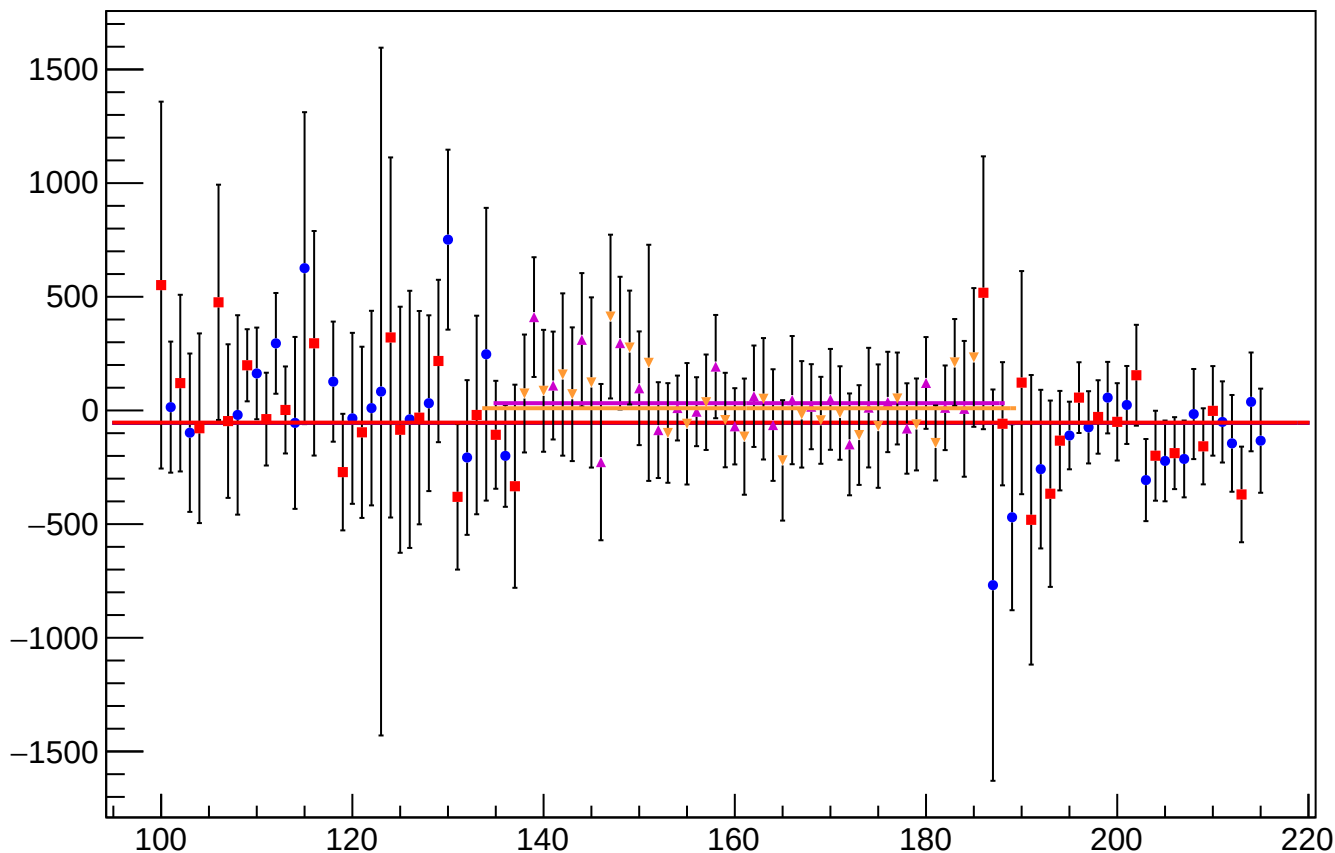
Right: 10.409 $\pm$ 0.001 χ^2 /NDF: 551685.3/65

In: 10.488 $\pm$ 0.001 χ^2 /NDF:403961.0/54

Out: 10.619 $\pm$ 0.001 χ^2 /NDF:447512.4/58

All: 10.553 $\pm$ 0.001 χ^2 /NDF: 856784.0/113

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.022 ± 42.824 $\chi^2/\text{NDF}: 17.4/31$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -53.606 ± 43.319 $\chi^2/\text{NDF}: 15.5/33$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

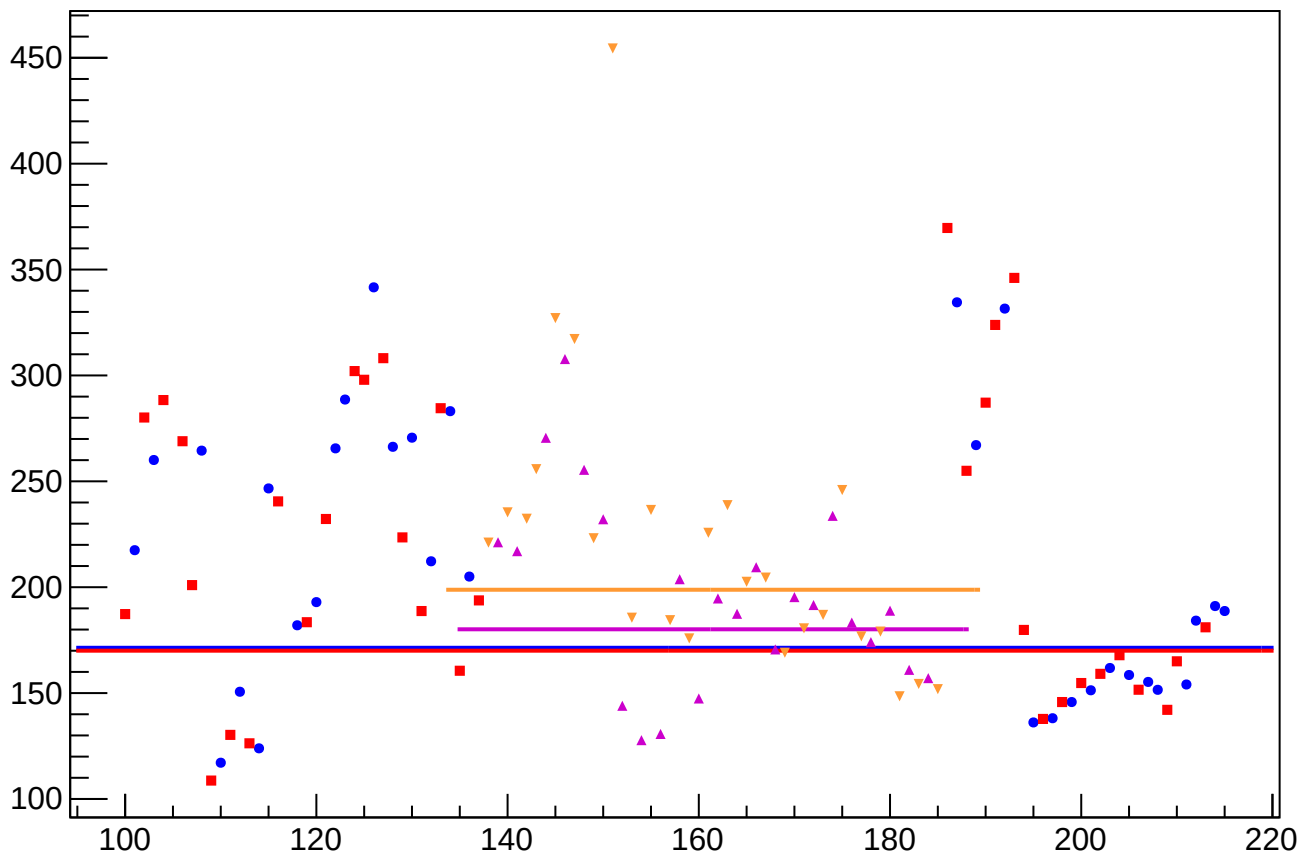
Right: -54.322 ± 30.455 $\chi^2/\text{NDF}: 32.9/65$

In: -13.708 ± 31.035 $\chi^2/\text{NDF}: 26.5/54$

Out: -25.130 ± 32.153 $\chi^2/\text{NDF}: 24.0/58$

All: -19.217 ± 22.330 $\chi^2/\text{NDF}: 50.7/113$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.394 $\pm$ 0.030 χ^2/NDF : 2160600.5/31

Left Out: 198.800 $\pm$ 0.034 χ^2/NDF :1763119.1/24

Right Out: 170.028 $\pm$ 0.031 χ^2/NDF : 2794396.8/33

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

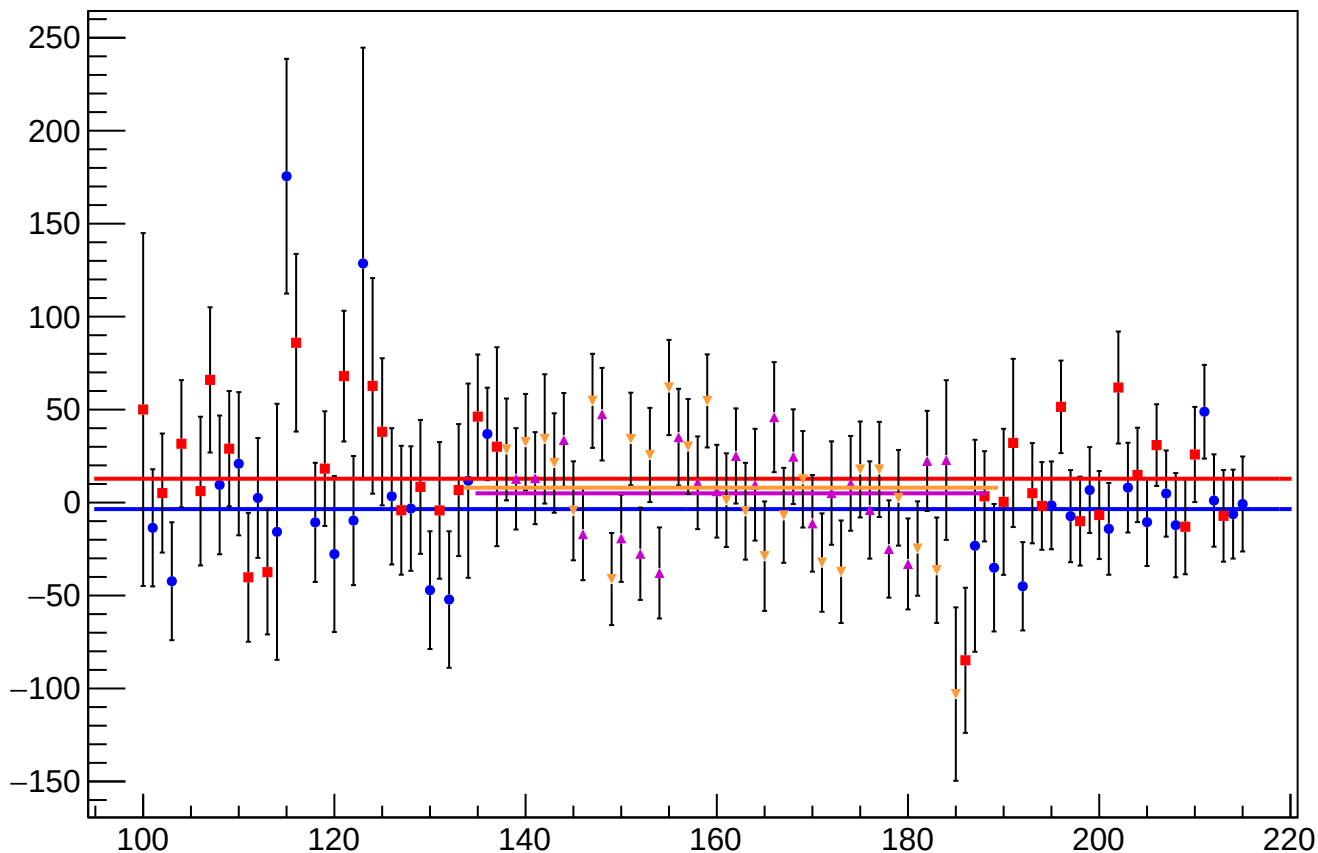
Right: 170.719 $\pm$ 0.022 χ^2/NDF : 4956003.2/65

In: 175.539 $\pm$ 0.022 χ^2/NDF :3793898.3/54

Out: 182.950 $\pm$ 0.023 χ^2/NDF :4953752.6/58

All: 179.113 $\pm$ 0.016 χ^2/NDF : 8802654.5/113

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.513 ± 5.299 χ^2/NDF : 27.7/31

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 12.813 ± 5.357 χ^2/NDF : 31.3/33

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

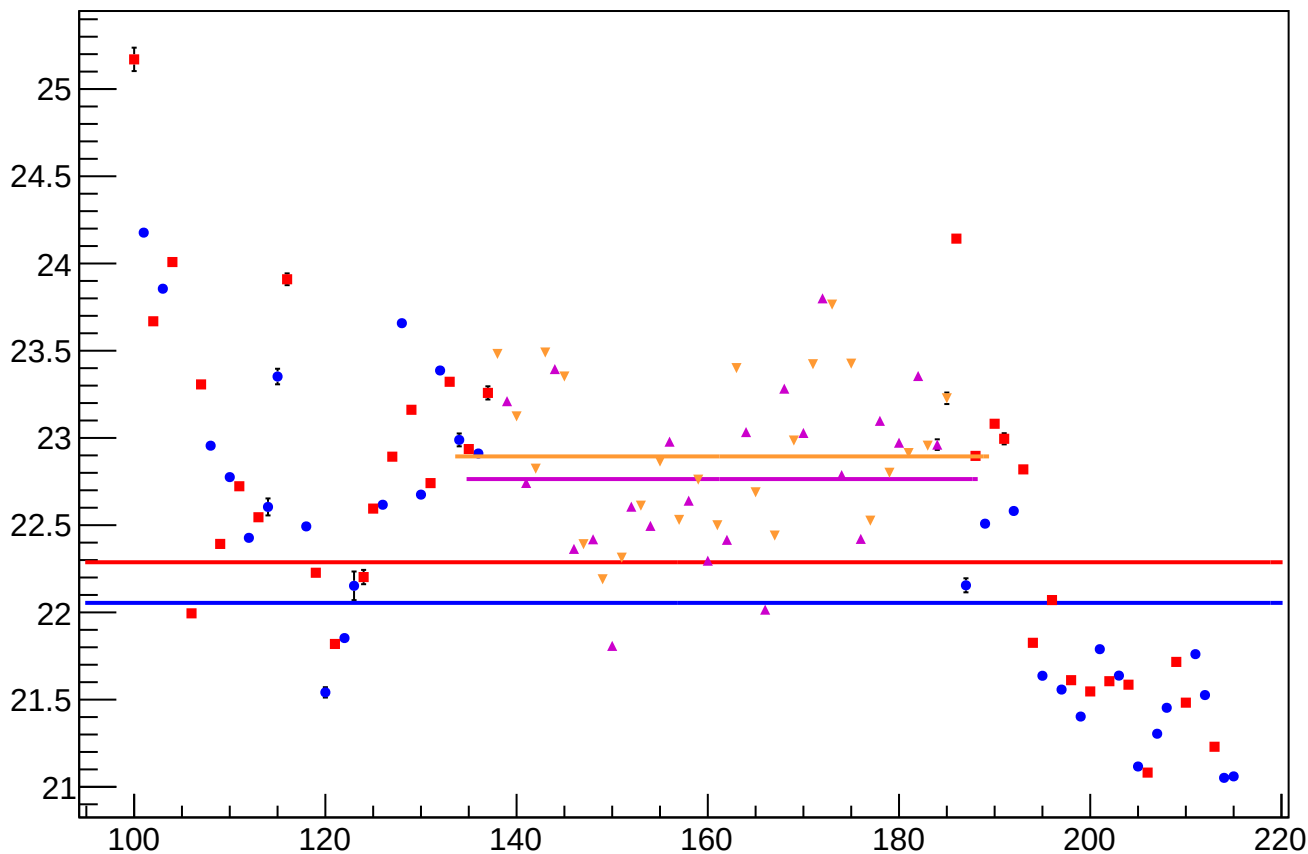
Right: 4.561 ± 3.767 χ^2/NDF : 63.7/65

In: 0.615 ± 3.797 χ^2/NDF : 49.4/54

Out: 10.388 ± 3.777 χ^2/NDF : 69.1/58

All: 5.527 ± 2.678 χ^2/NDF : 121.9/113

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.055 ± 0.004 $\chi^2/\text{NDF}: 49928.4/31$

Left Out: 22.894 ± 0.004 $\chi^2/\text{NDF}: 13070.5/24$

Right Out: 22.287 ± 0.004 $\chi^2/\text{NDF}: 48137.5/33$

Left In: 22.764 ± 0.004 $\chi^2/\text{NDF}: 14665.7/22$

Left: 22.831 ± 0.003 $\chi^2/\text{NDF}: 28317.3/47$

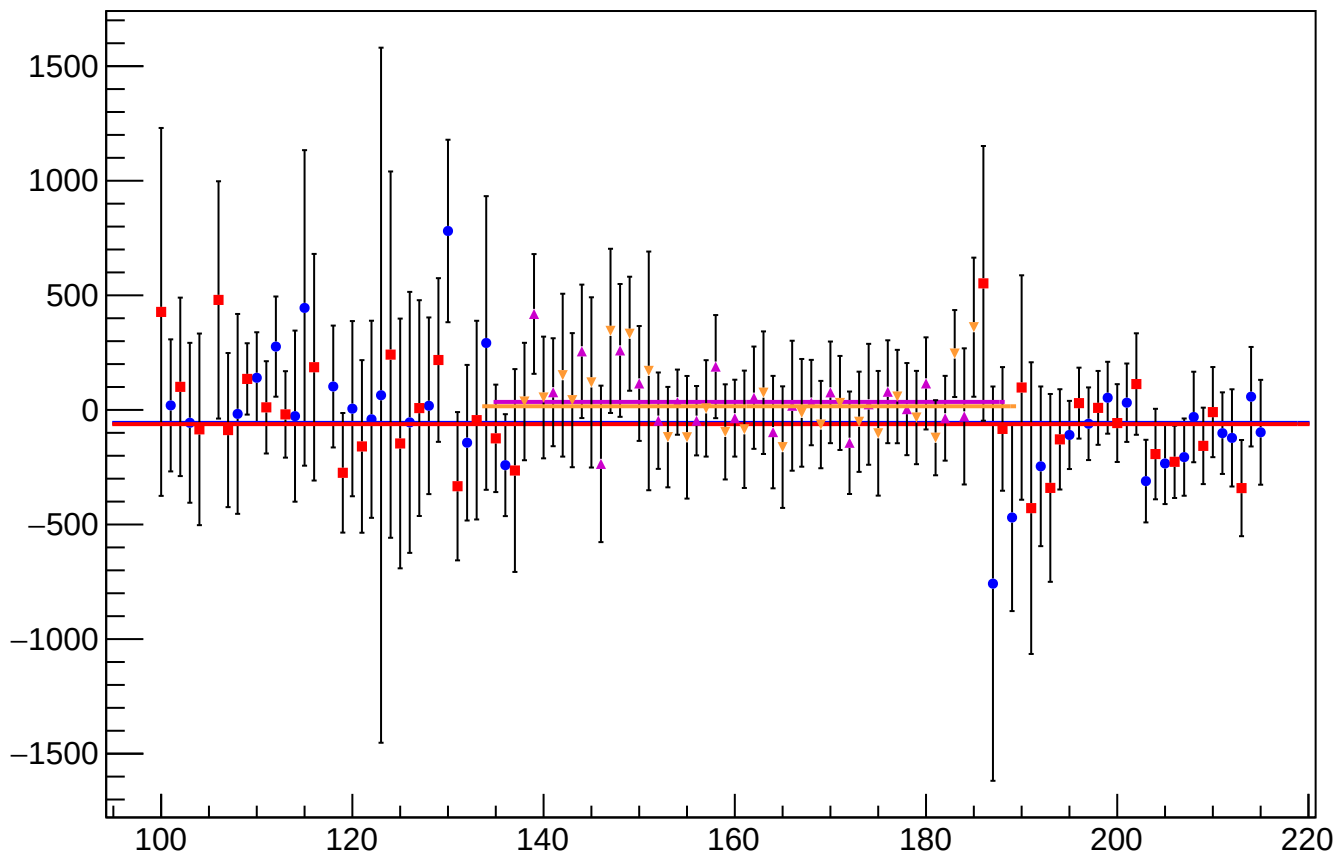
Right: 22.170 ± 0.003 $\chi^2/\text{NDF}: 99976.7/65$

In: 22.400 ± 0.003 $\chi^2/\text{NDF}: 82046.0/54$

Out: 22.592 ± 0.003 $\chi^2/\text{NDF}: 74104.2/58$

All: 22.497 ± 0.002 $\chi^2/\text{NDF}: 158737.6/113$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.601 ± 42.705 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -62.073 ± 43.137 $\chi^2/\text{NDF}: 13.1/33$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

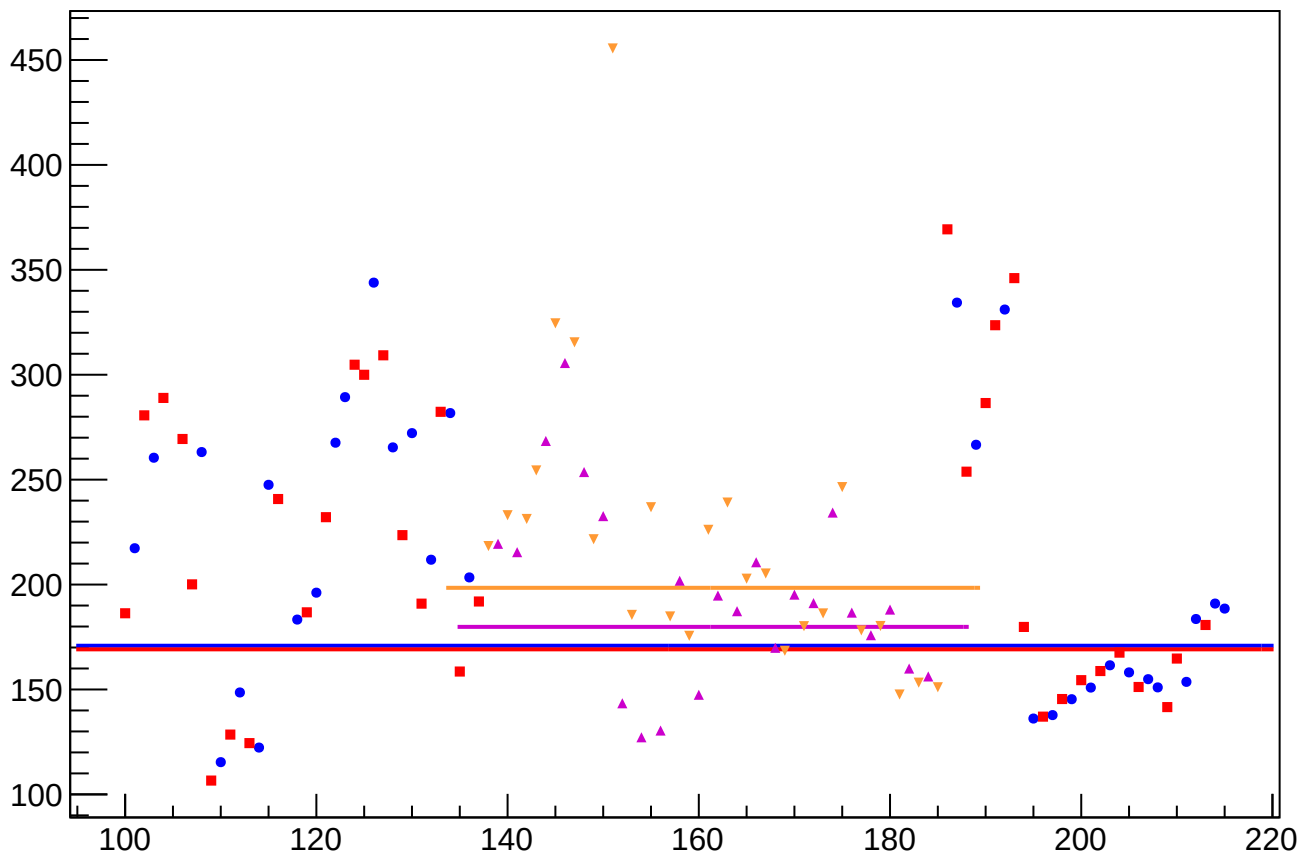
Right: -59.309 ± 30.349 $\chi^2/\text{NDF}: 30.1/65$

In: -13.204 ± 30.967 $\chi^2/\text{NDF}: 25.7/54$

Out: -27.152 ± 32.054 $\chi^2/\text{NDF}: 23.0/58$

All: -19.938 ± 22.271 $\chi^2/\text{NDF}: 48.8/113$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.844 $\pm$ 0.030 χ^2 /NDF: 2192004.9/31

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 169.121 $\pm$ 0.031 χ^2 /NDF: 2862538.5/33

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

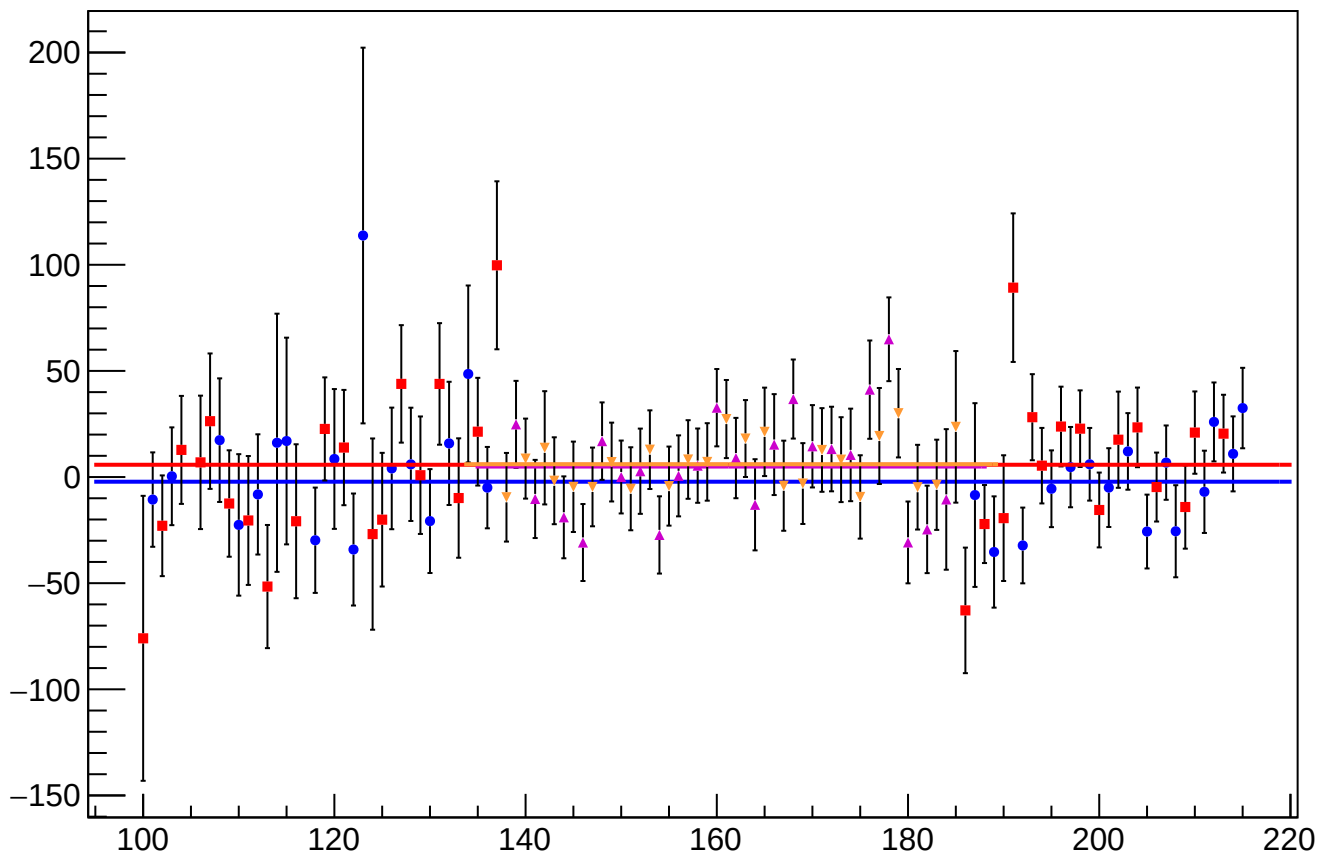
Right: 169.991 $\pm$ 0.021 χ^2 /NDF: 5056154.9/65

In: 175.109 $\pm$ 0.022 χ^2 /NDF:3822916.4/54

Out: 182.255 $\pm$ 0.023 χ^2 /NDF:5038019.1/58

All: 178.559 $\pm$ 0.016 χ^2 /NDF: 8912355.7/113

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.201 ± 4.035 $\chi^2/\text{NDF}: 23.4/31$

Left Out: 6.020 ± 4.017 $\chi^2/\text{NDF}: 8.1/24$

Right Out: 5.788 ± 4.097 $\chi^2/\text{NDF}: 43.4/33$

Left In: 4.943 ± 4.108 $\chi^2/\text{NDF}: 34.8/22$

Left: 5.494 ± 2.872 $\chi^2/\text{NDF}: 43.0/47$

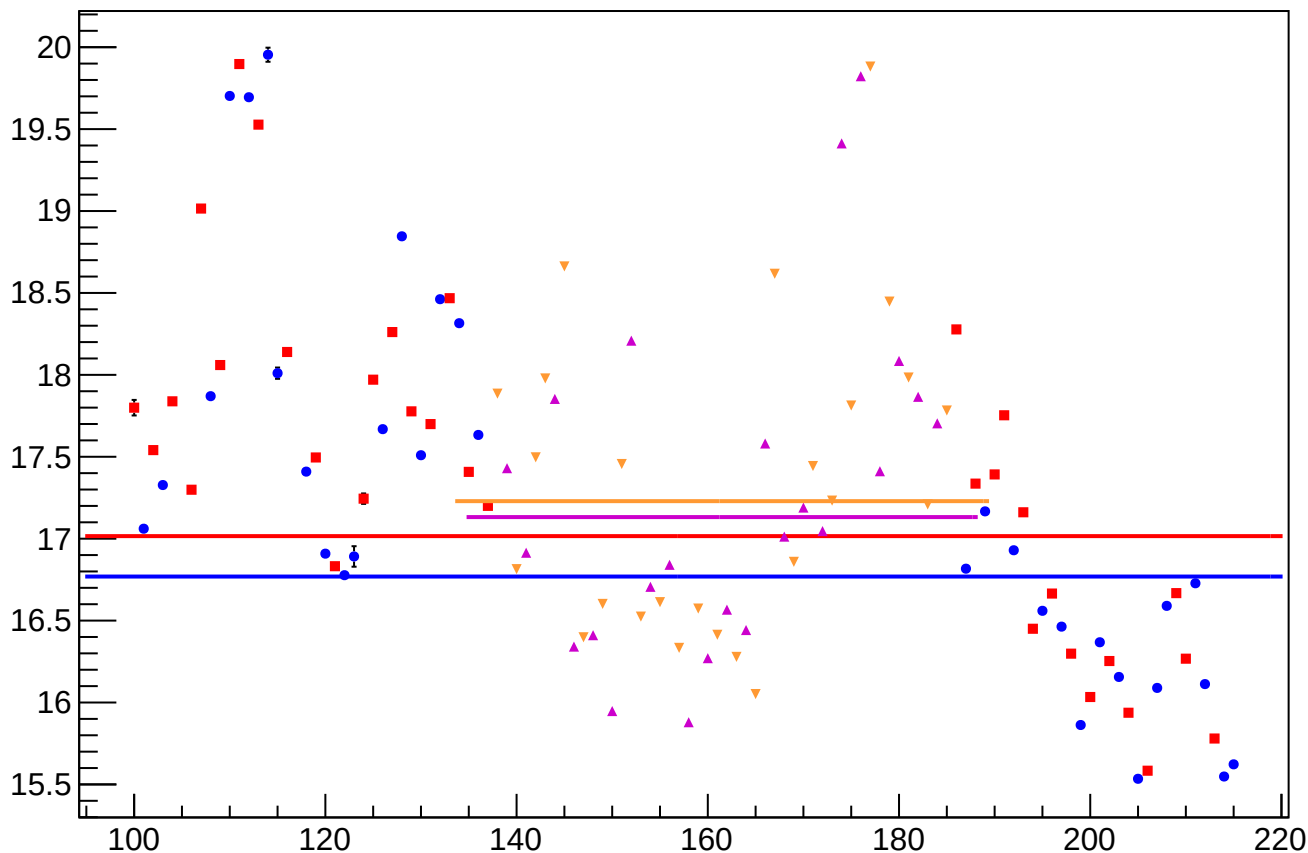
Right: 1.733 ± 2.875 $\chi^2/\text{NDF}: 68.7/65$

In: 1.308 ± 2.878 $\chi^2/\text{NDF}: 59.8/54$

Out: 5.906 ± 2.868 $\chi^2/\text{NDF}: 51.5/58$

All: 3.615 ± 2.032 $\chi^2/\text{NDF}: 112.6/113$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.769 ± 0.003 $\chi^2/\text{NDF}: 121779.8/31$

Left Out: 17.229 ± 0.003 $\chi^2/\text{NDF}: 98624.7/24$

Right Out: 17.016 ± 0.003 $\chi^2/\text{NDF}: 119833.8/33$

Left In: 17.132 ± 0.003 $\chi^2/\text{NDF}: 103997.3/22$

Left: 17.182 ± 0.002 $\chi^2/\text{NDF}: 203195.4/47$

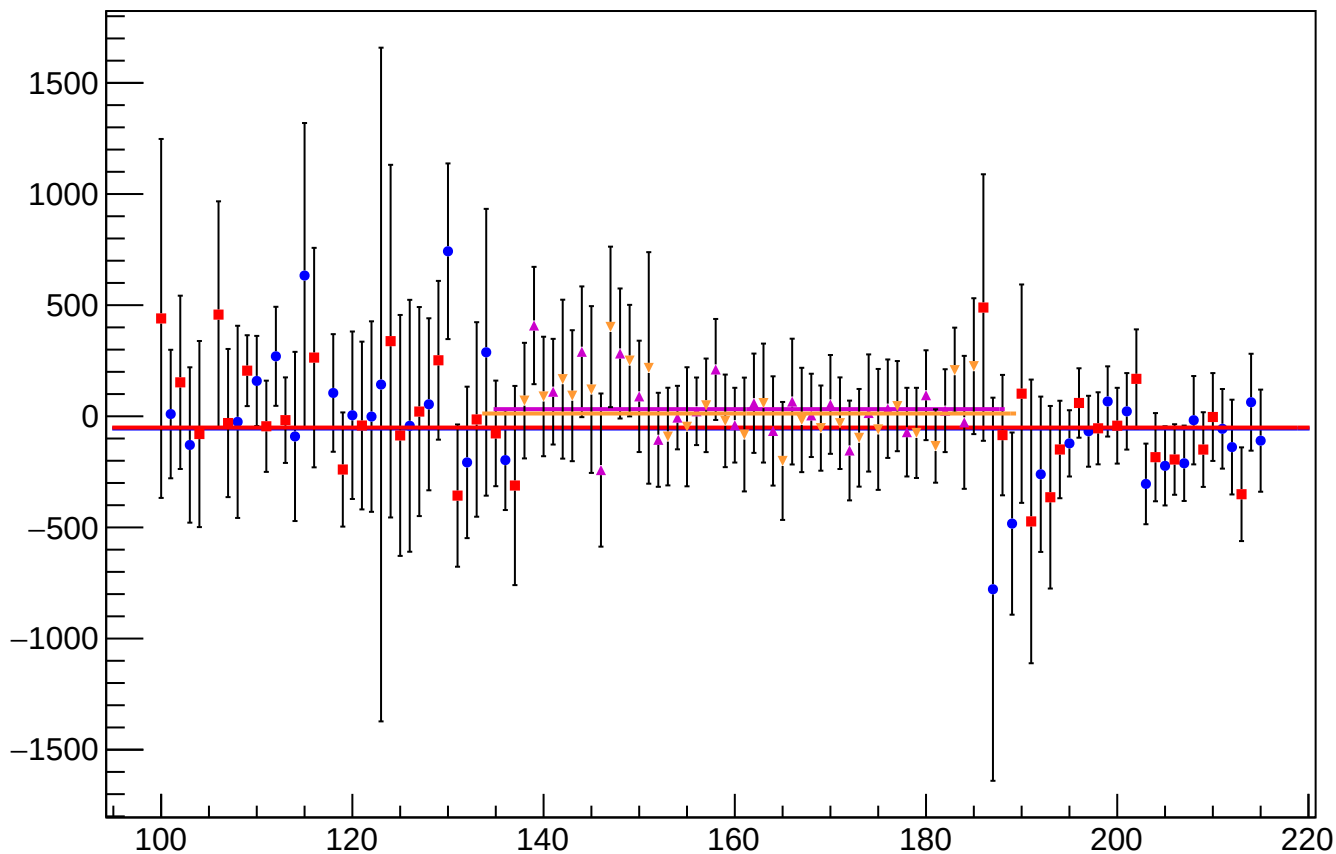
Right: 16.890 ± 0.002 $\chi^2/\text{NDF}: 245295.5/65$

In: 16.947 ± 0.002 $\chi^2/\text{NDF}: 233722.5/54$

Out: 17.124 ± 0.002 $\chi^2/\text{NDF}: 221227.3/58$

All: 17.036 ± 0.001 $\chi^2/\text{NDF}: 458758.3/113$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.088 ± 42.952 $\chi^2/\text{NDF}: 17.1/31$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -50.677 ± 43.433 $\chi^2/\text{NDF}: 14.8/33$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

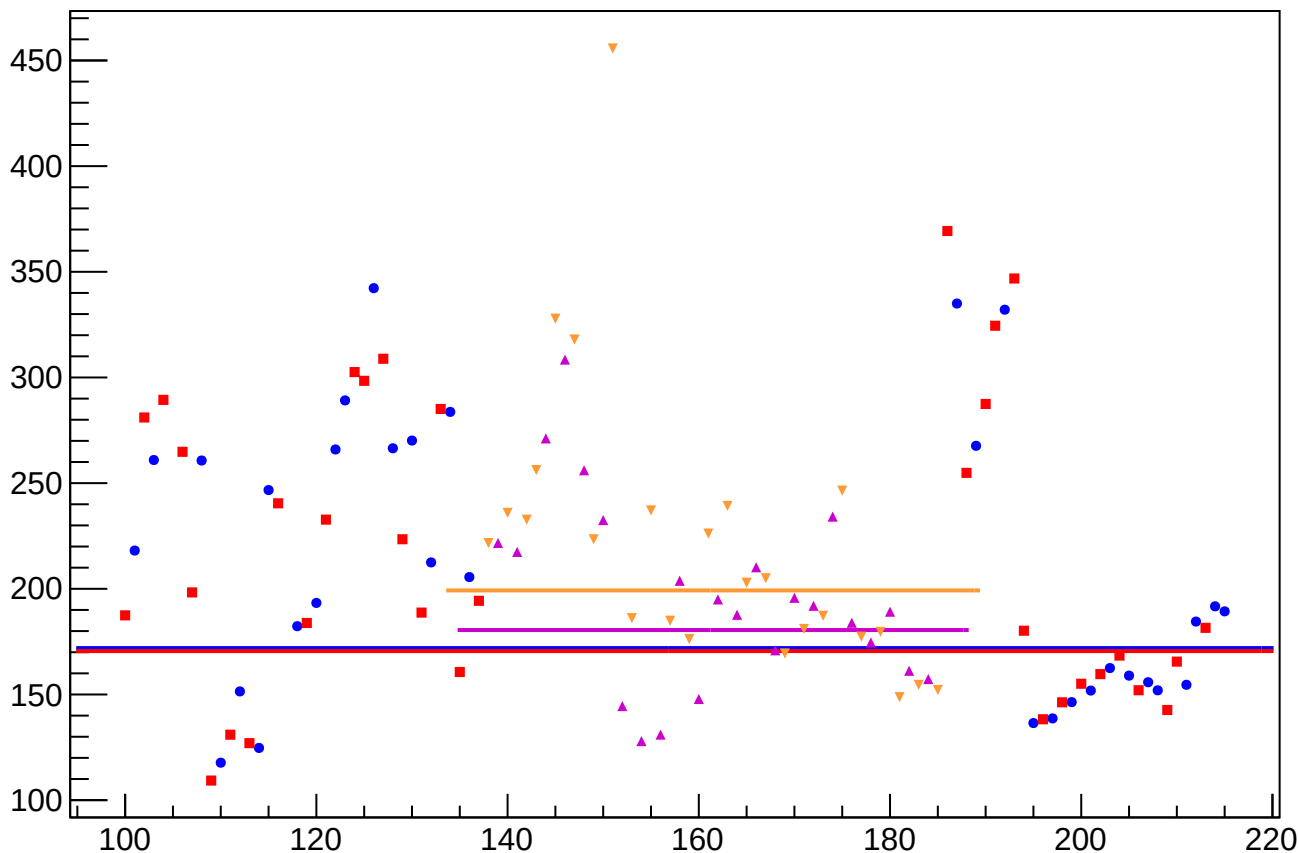
Right: -52.907 ± 30.540 $\chi^2/\text{NDF}: 31.9/65$

In: -13.621 ± 31.113 $\chi^2/\text{NDF}: 26.0/54$

Out: -22.303 ± 32.232 $\chi^2/\text{NDF}: 22.6/58$

All: -17.809 ± 22.385 $\chi^2/\text{NDF}: 48.7/113$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.954 $\pm$ 0.030 χ^2 /NDF: 2142177.1/31

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 170.541 $\pm$ 0.031 χ^2 /NDF: 2769712.8/33

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

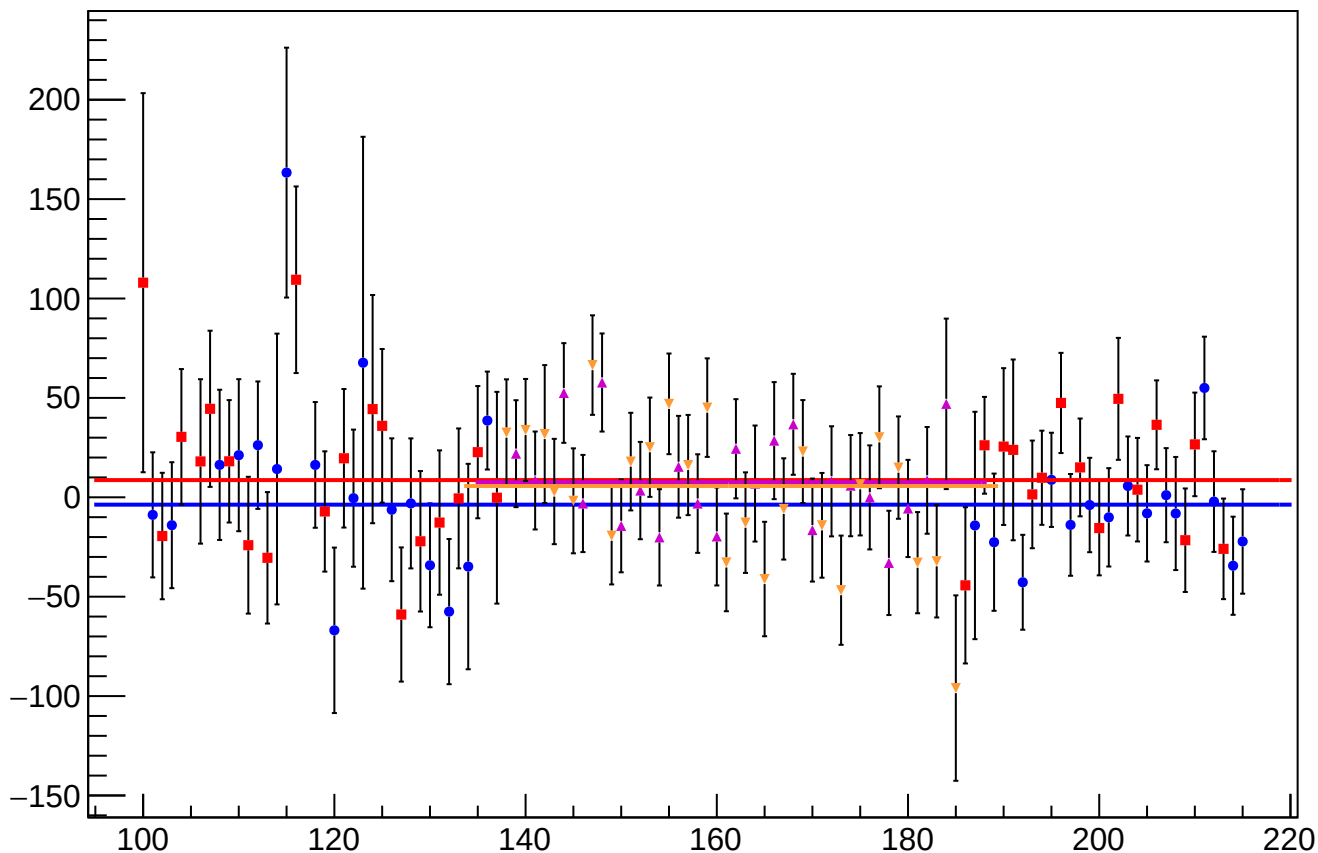
Right: 171.255 $\pm$ 0.022 χ^2 /NDF: 4912959.3/65

In: 176.013 $\pm$ 0.022 χ^2 /NDF:3773536.9/54

Out: 183.436 $\pm$ 0.023 χ^2 /NDF:4926156.9/58

All: 179.593 $\pm$ 0.016 χ^2 /NDF: 8754609.8/113

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.704 ± 5.350 χ^2/NDF : 29.4/31

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 8.659 ± 5.384 χ^2/NDF : 30.0/33

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

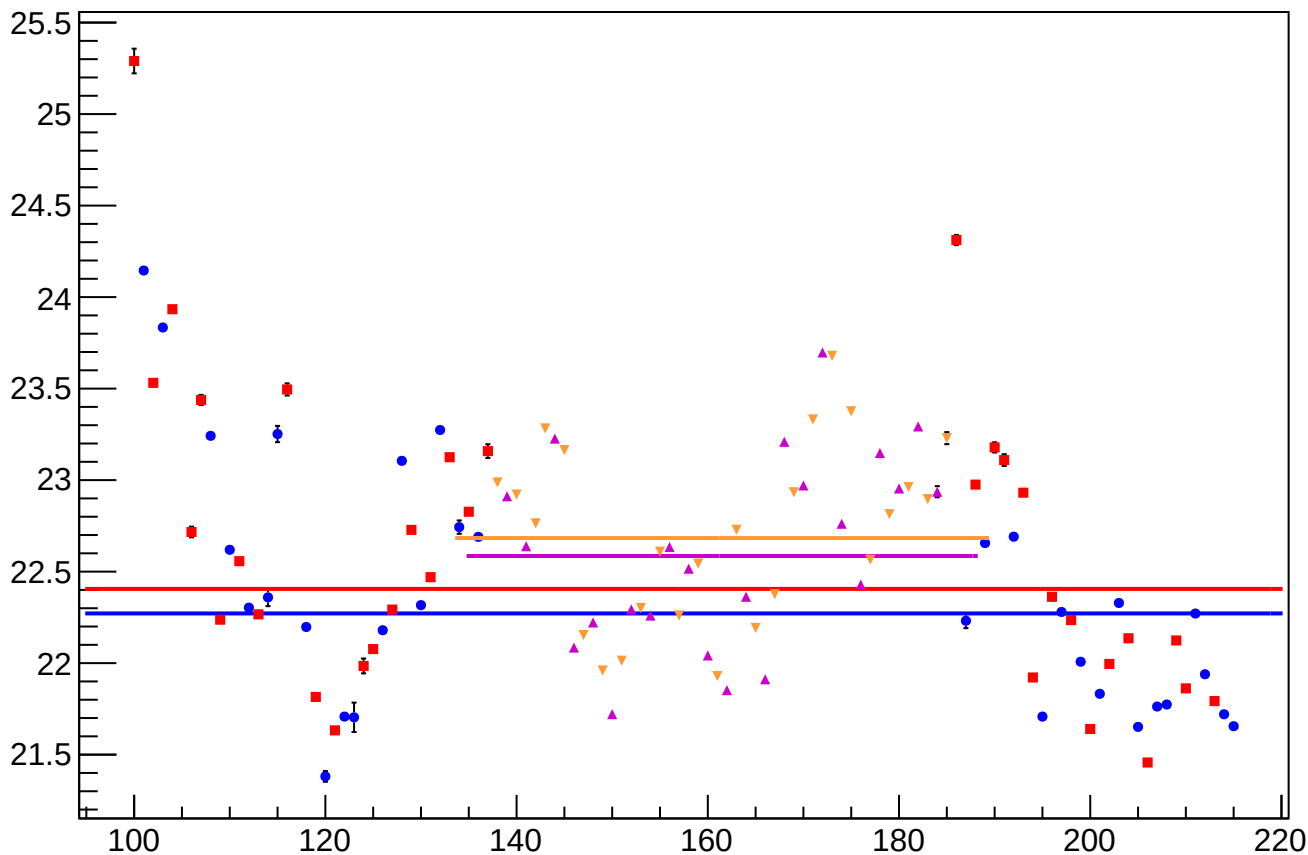
Right: 2.438 ± 3.795 χ^2/NDF : 62.1/65

In: 1.890 ± 3.801 χ^2/NDF : 49.9/54

Out: 7.136 ± 3.769 χ^2/NDF : 66.6/58

All: 4.536 ± 2.676 χ^2/NDF : 117.4/113

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.272 ± 0.004 $\chi^2/NDF: 27182.3/31$

Left Out: 22.683 ± 0.004 $\chi^2/NDF: 16318.1/24$

Right Out: 22.406 ± 0.004 $\chi^2/NDF: 32066.3/33$

Left In: 22.585 ± 0.004 $\chi^2/NDF: 18087.5/22$

Left: 22.635 ± 0.003 $\chi^2/NDF: 34743.7/47$

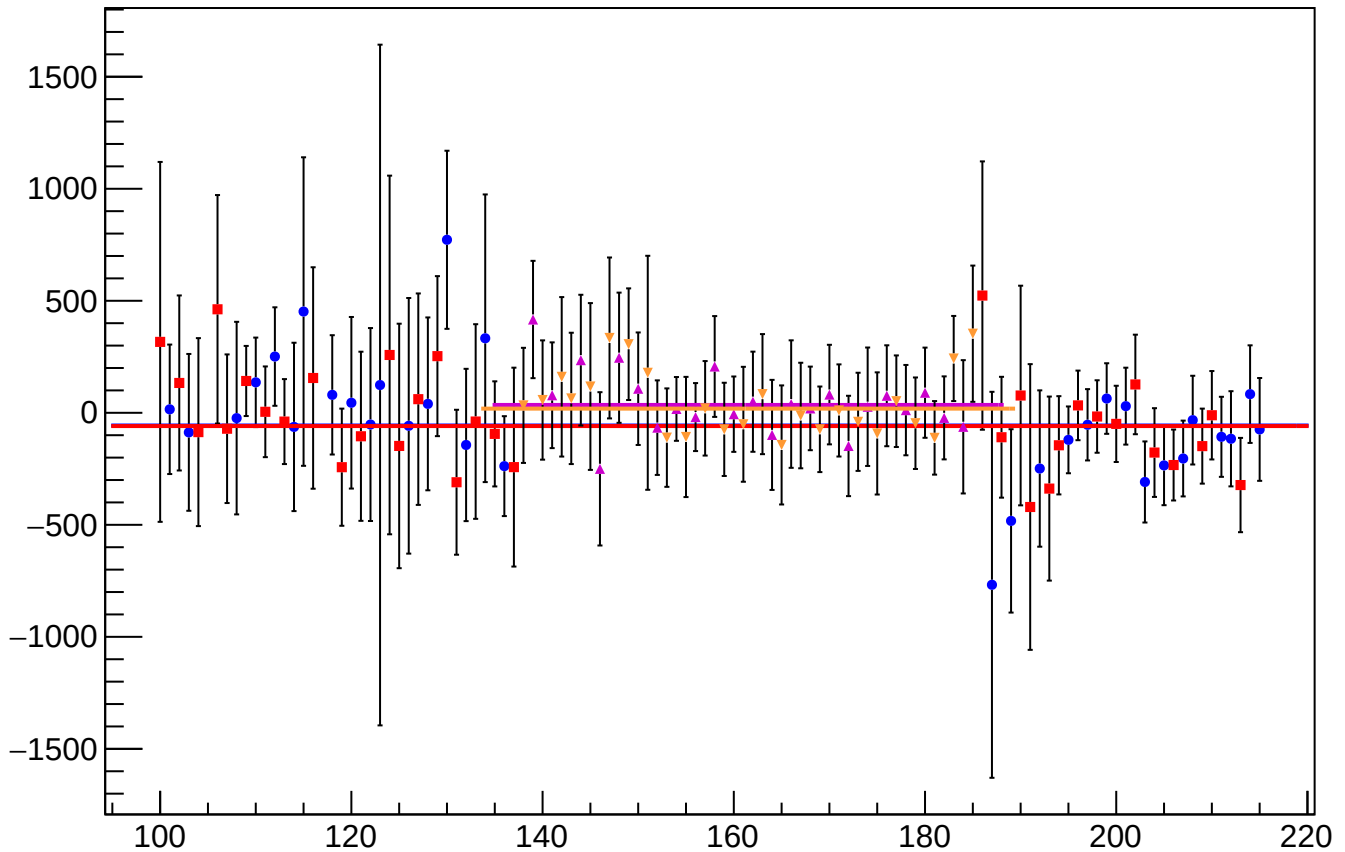
Right: 22.338 ± 0.003 $\chi^2/NDF: 59872.7/65$

In: 22.427 ± 0.003 $\chi^2/NDF: 48675.7/54$

Out: 22.547 ± 0.003 $\chi^2/NDF: 51100.5/58$

All: 22.488 ± 0.002 $\chi^2/NDF: 100788.3/113$

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.739 ± 42.834 $\chi^2/\text{NDF}: 16.8/31$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -59.201 ± 43.252 $\chi^2/\text{NDF}: 12.4/33$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

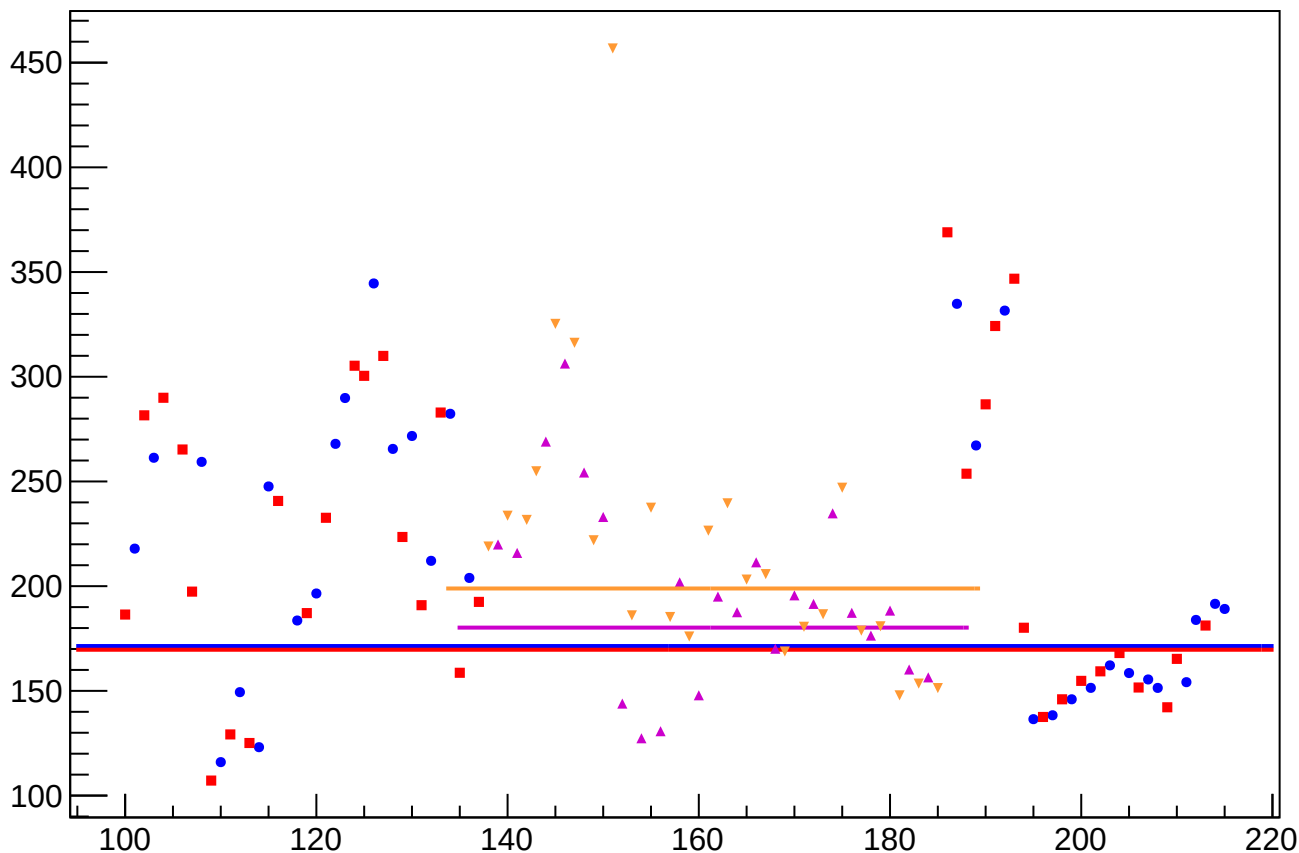
Right: -57.958 ± 30.435 $\chi^2/\text{NDF}: 29.1/65$

In: -13.173 ± 31.046 $\chi^2/\text{NDF}: 25.2/54$

Out: -24.327 ± 32.134 $\chi^2/\text{NDF}: 21.4/58$

All: -18.558 ± 22.327 $\chi^2/\text{NDF}: 46.7/113$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.408 $\pm$ 0.030 χ^2 /NDF: 2172986.4/31

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 169.641 $\pm$ 0.031 χ^2 /NDF: 2836948.8/33

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

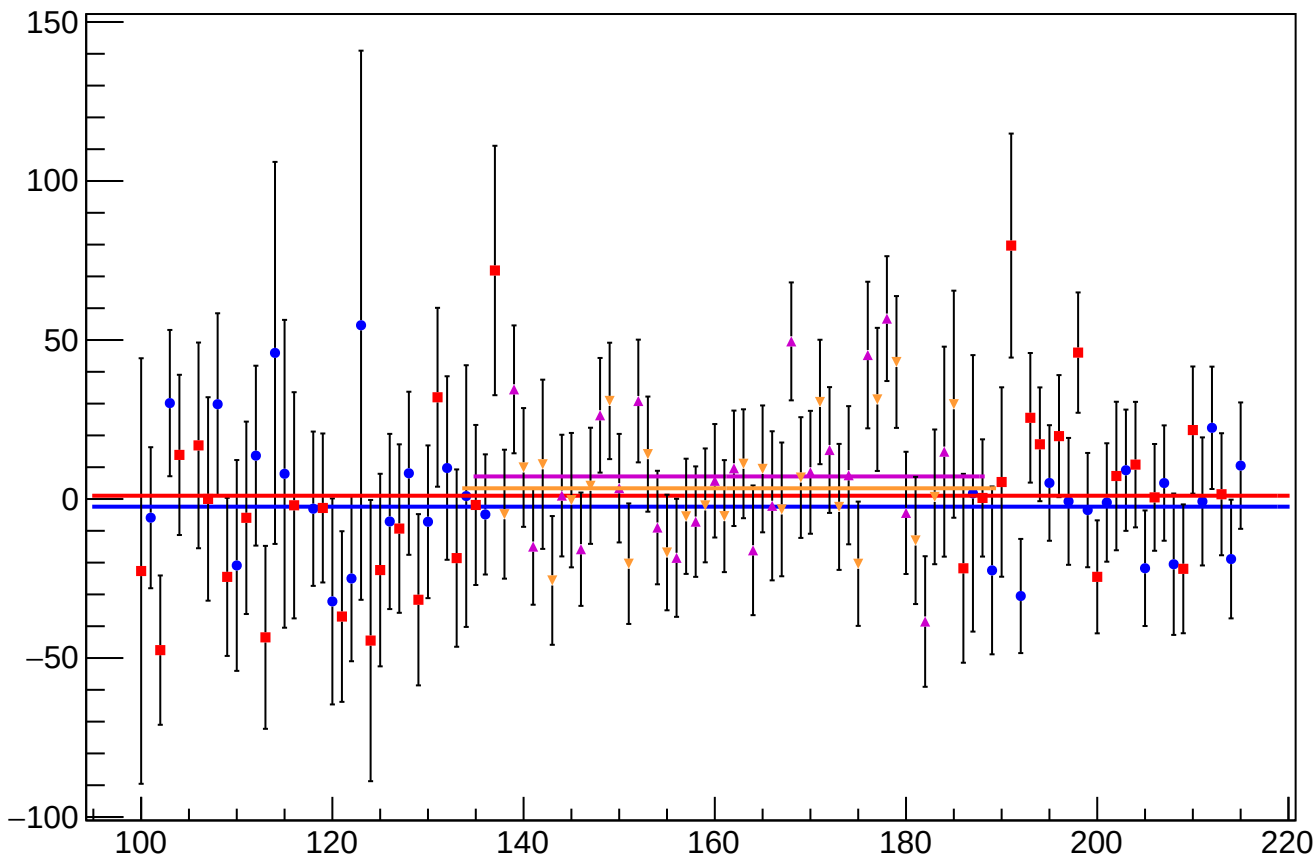
Right: 170.533 $\pm$ 0.022 χ^2 /NDF: 5011621.9/65

In: 175.585 $\pm$ 0.022 χ^2 /NDF:3802049.9/54

Out: 182.746 $\pm$ 0.023 χ^2 /NDF:5009222.5/58

All: 179.042 $\pm$ 0.016 χ^2 /NDF: 8862650.5/113

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.410 ± 4.101 χ^2/NDF : 15.5/31

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 1.035 ± 4.135 χ^2/NDF : 37.9/33

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

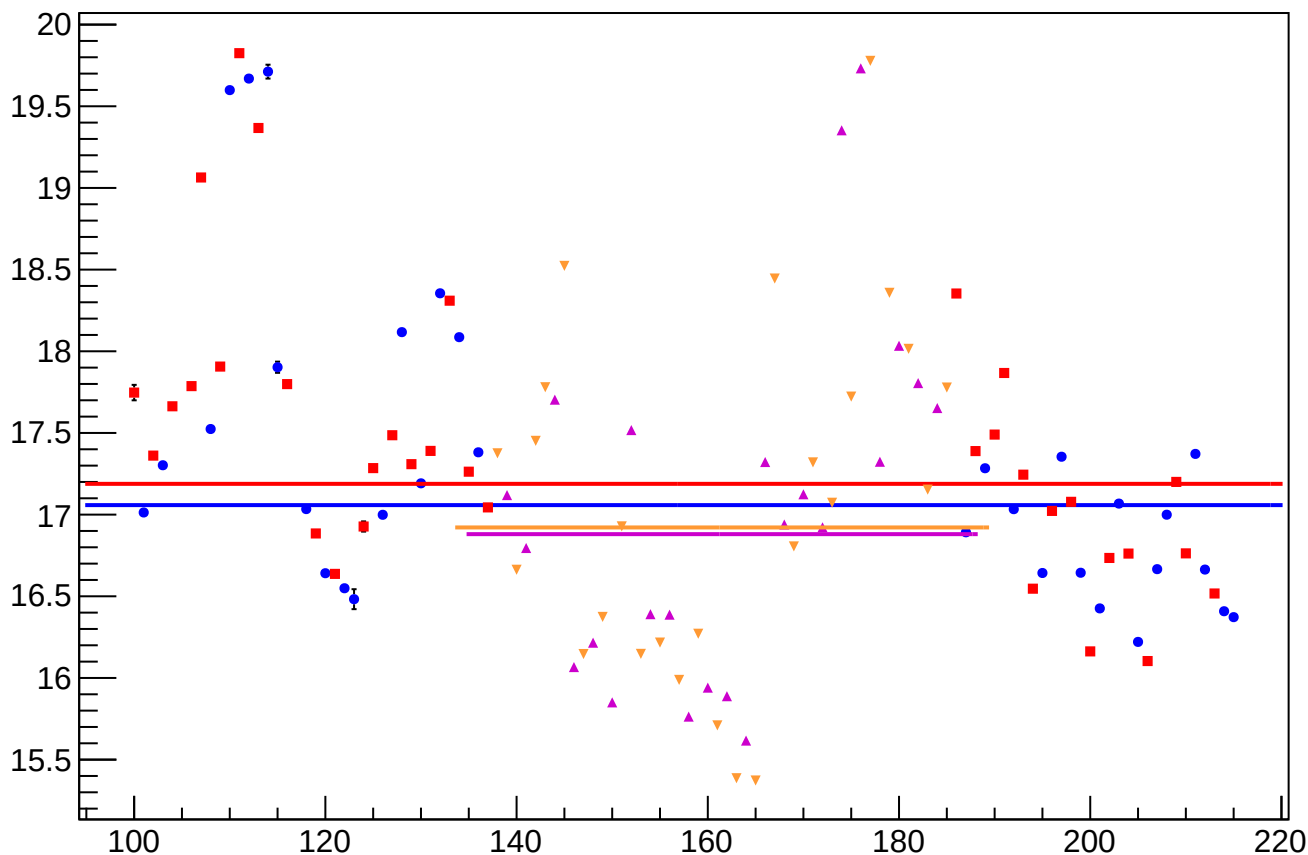
Right: -0.701 ± 2.912 χ^2/NDF : 53.8/65

In: 2.408 ± 2.881 χ^2/NDF : 50.8/54

Out: 2.258 ± 2.855 χ^2/NDF : 56.9/58

All: 2.332 ± 2.028 χ^2/NDF : 107.6/113

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.058 $\pm$ 0.003 χ^2 /NDF: 60984.2/31

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.188 $\pm$ 0.003 χ^2 /NDF: 69525.3/33

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

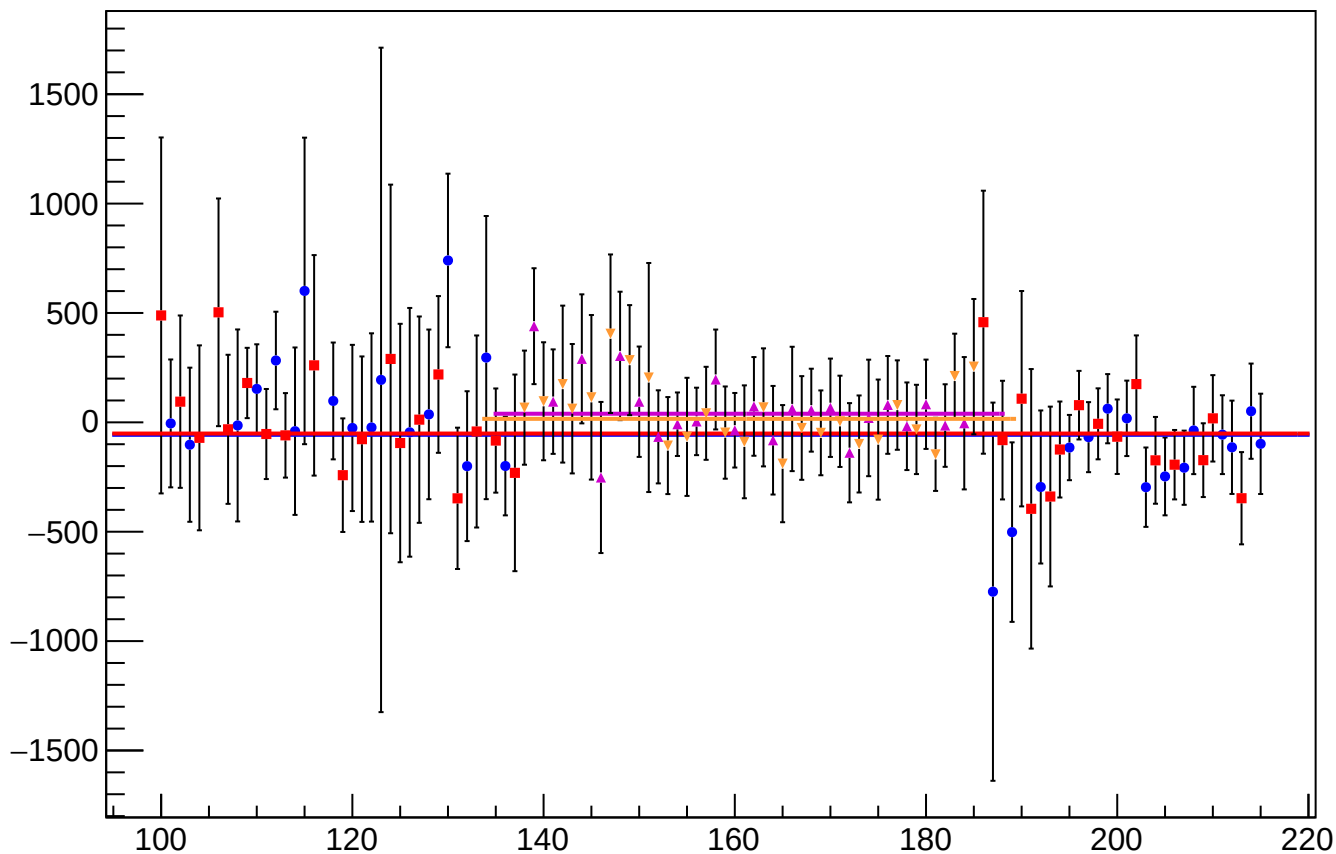
Right: 17.123 $\pm$ 0.002 χ^2 /NDF: 131508.6/65

In: 16.968 $\pm$ 0.002 χ^2 /NDF:184624.2/54

Out: 17.049 $\pm$ 0.002 χ^2 /NDF:212876.6/58

All: 17.009 $\pm$ 0.001 χ^2 /NDF: 398289.8/113

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.024 ± 43.064 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -51.197 ± 43.572 $\chi^2/\text{NDF}: 13.8/33$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

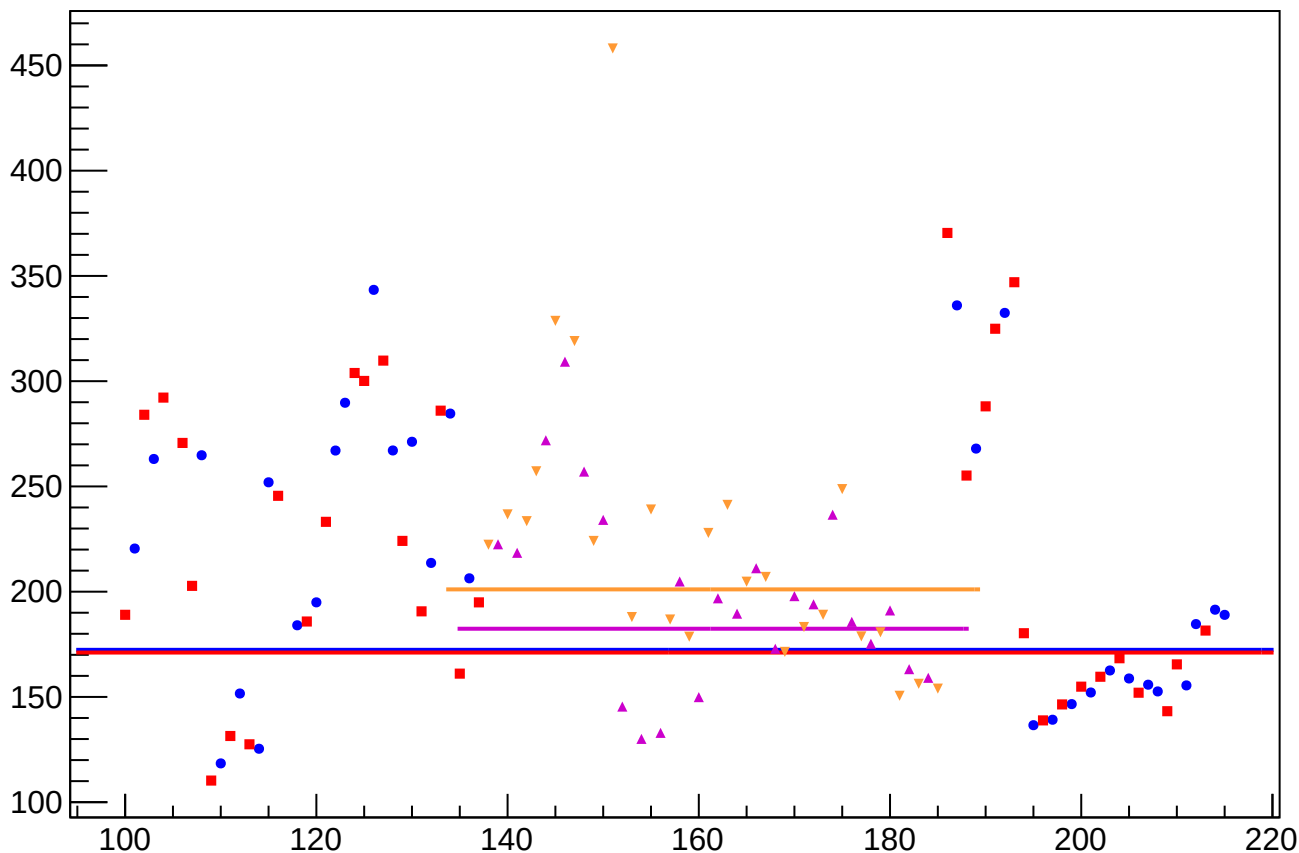
Right: -54.145 ± 30.629 $\chi^2/\text{NDF}: 30.8/65$

In: -11.548 ± 31.299 $\chi^2/\text{NDF}: 26.2/54$

Out: -21.201 ± 32.414 $\chi^2/\text{NDF}: 22.3/58$

All: -16.206 ± 22.516 $\chi^2/\text{NDF}: 48.5/113$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.378+/-0.030 χ^2/NDF : 2154551.9/31

Left Out: 201.091+/-0.034 χ^2/NDF :1731069.1/24

Right Out: 171.085+/-0.031 χ^2/NDF : 2779945.8/33

Left In: 182.396+/-0.032 χ^2/NDF :1548907.7/22

Left: 191.161+/-0.023 χ^2/NDF : 3437793.2/47

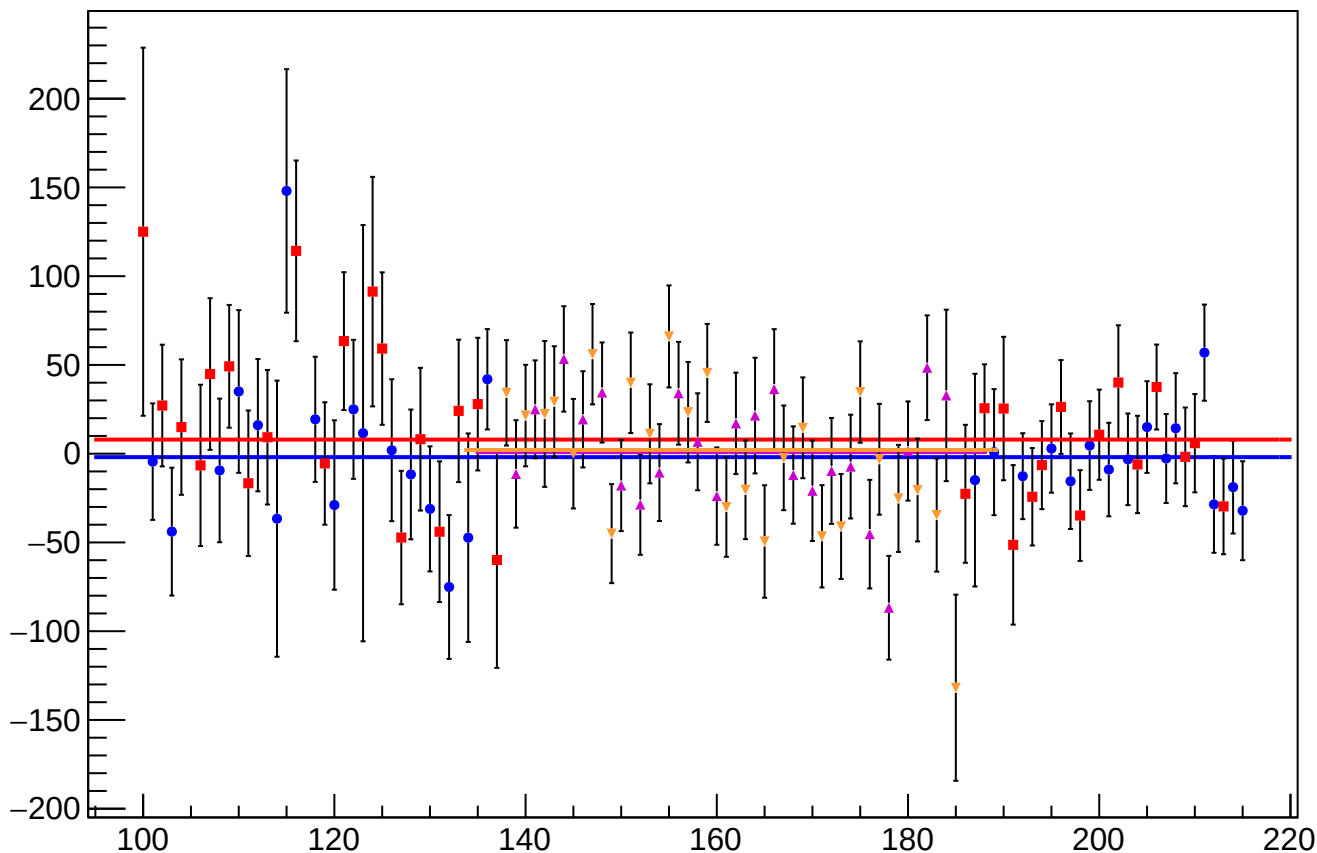
Right: 171.739+/-0.022 χ^2/NDF : 4935388.2/65

In: 177.104+/-0.022 χ^2/NDF :3754519.7/54

Out: 184.486+/-0.023 χ^2/NDF :4934603.3/58

All: 180.666+/-0.016 χ^2/NDF : 8742802.2/113

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.946 ± 5.764 χ^2/NDF : 24.1/31

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 7.947 ± 5.781 χ^2/NDF : 32.4/33

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

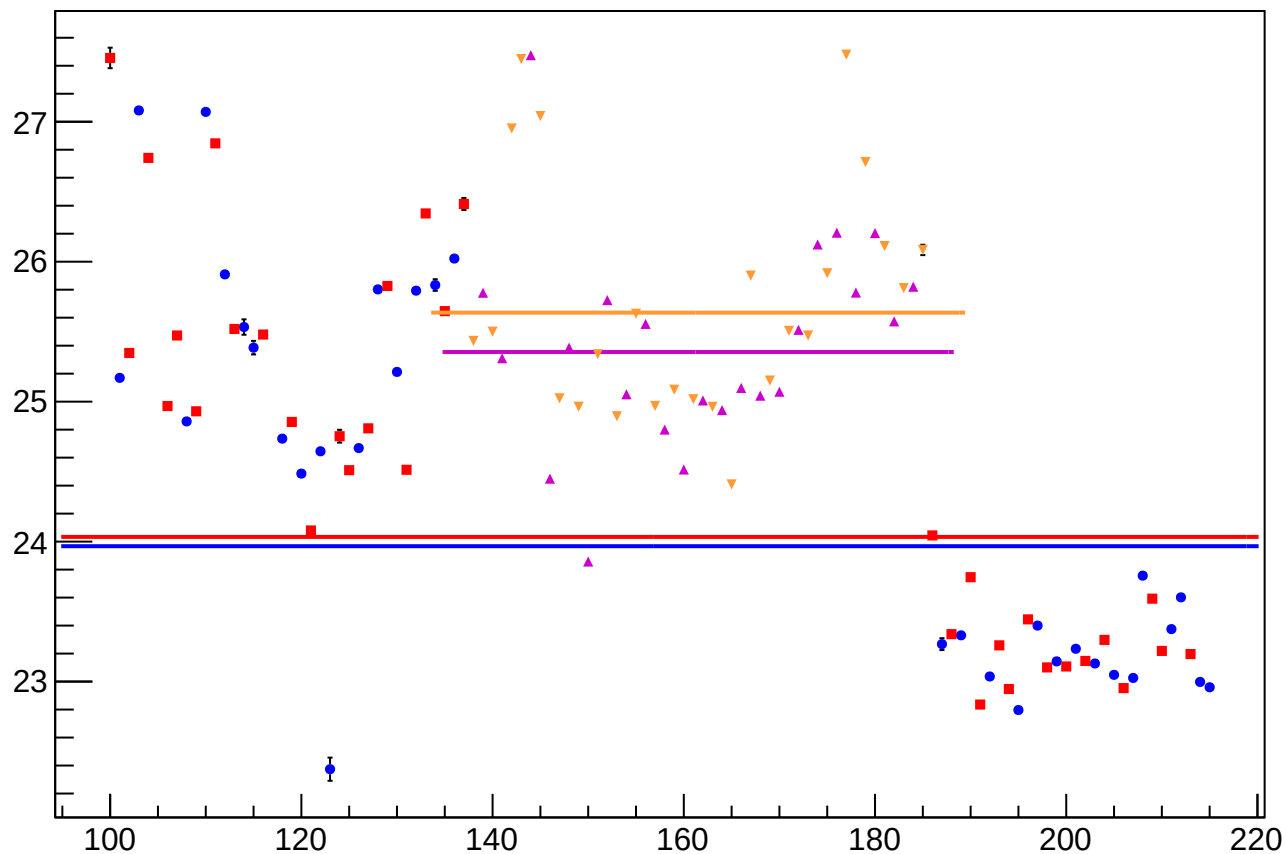
Right: 2.986 ± 4.082 χ^2/NDF : 58.0/65

In: -0.596 ± 4.180 χ^2/NDF : 51.3/54

Out: 5.095 ± 4.153 χ^2/NDF : 72.3/58

All: 2.268 ± 2.946 χ^2/NDF : 124.6/113

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.967 $\pm$ 0.004 χ^2 /NDF: 88990.7/31

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.034 $\pm$ 0.004 χ^2 /NDF: 79985.9/33

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

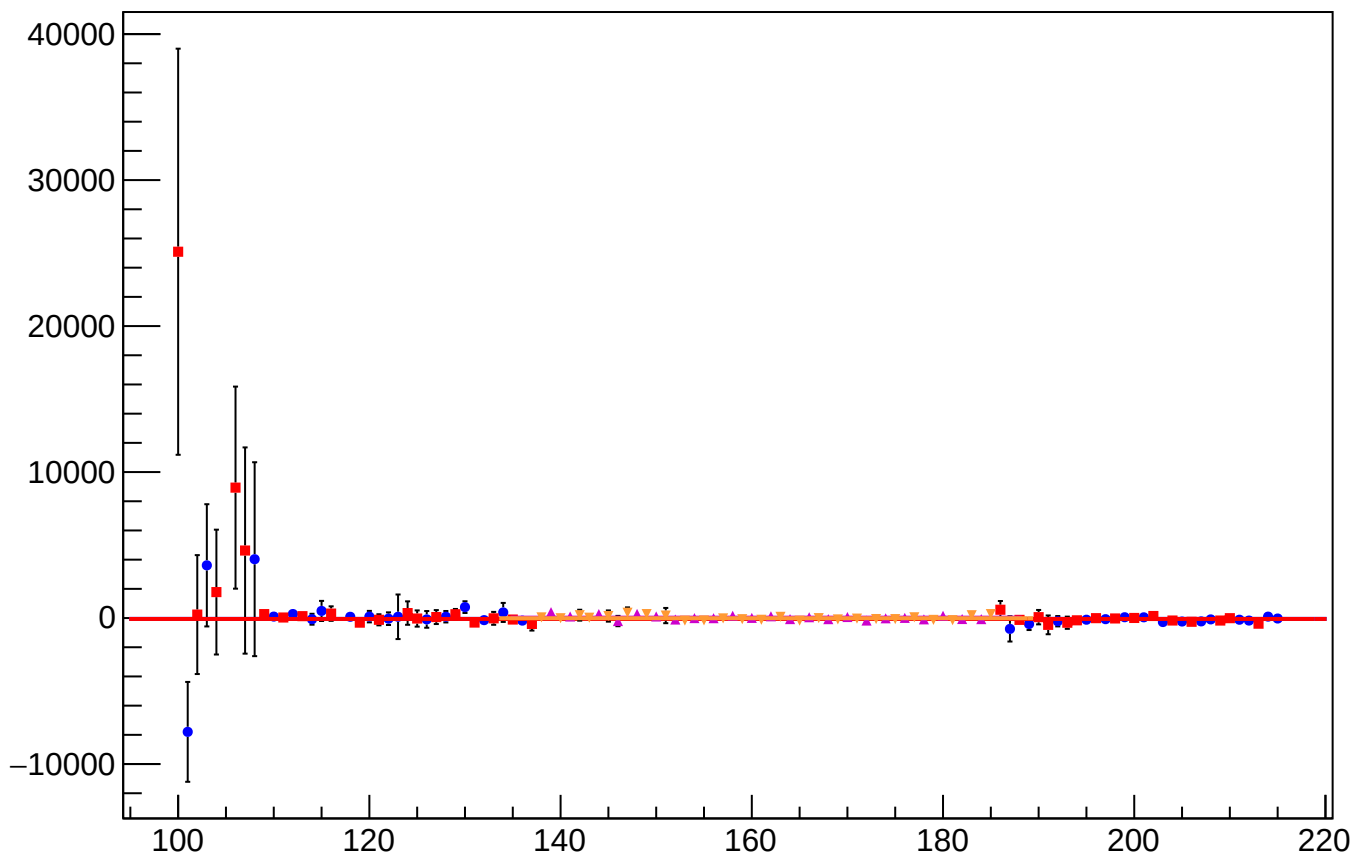
Right: 24.000 $\pm$ 0.003 χ^2 /NDF: 169109.4/65

In: 24.625 $\pm$ 0.003 χ^2 /NDF:173714.7/54

Out: 24.809 $\pm$ 0.003 χ^2 /NDF:189468.2/58

All: 24.718 $\pm$ 0.002 χ^2 /NDF: 365132.7/113

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.276 $\pm$ 44.953 χ^2 /NDF: 22.0/31

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF: 7.9/24

Right Out: -62.023 $\pm$ 46.209 χ^2 /NDF: 20.7/33

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

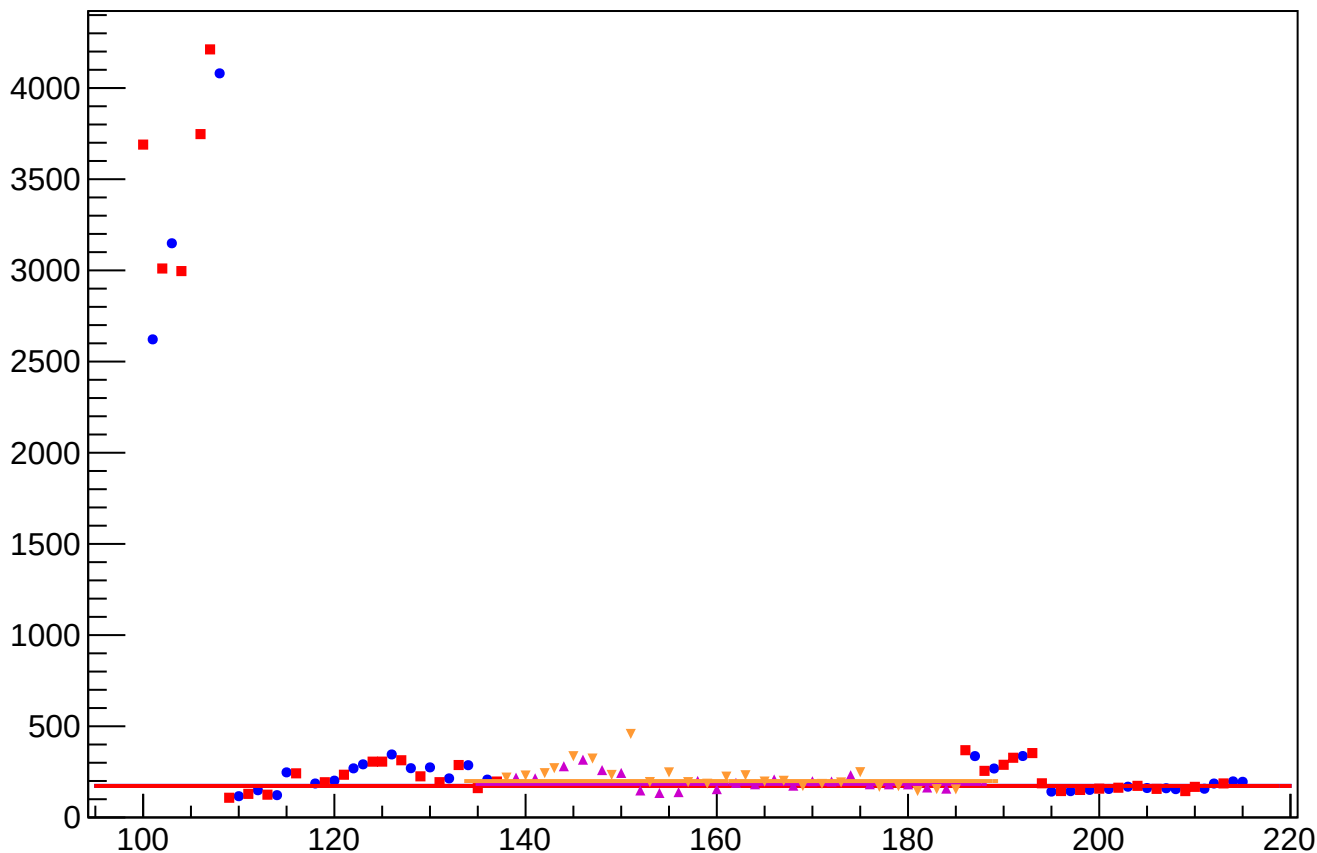
Right: -59.584 $\pm$ 32.222 χ^2 /NDF: 42.6/65

In: -16.074 $\pm$ 32.108 χ^2 /NDF: 31.2/54

Out: -38.467 $\pm$ 33.362 χ^2 /NDF: 29.1/58

All: -26.842 $\pm$ 23.134 χ^2 /NDF: 60.5/113

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.289+/-0.032 χ^2/NDF : 4565883.1/31

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 172.728+/-0.033 χ^2/NDF : 5402480.1/33

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

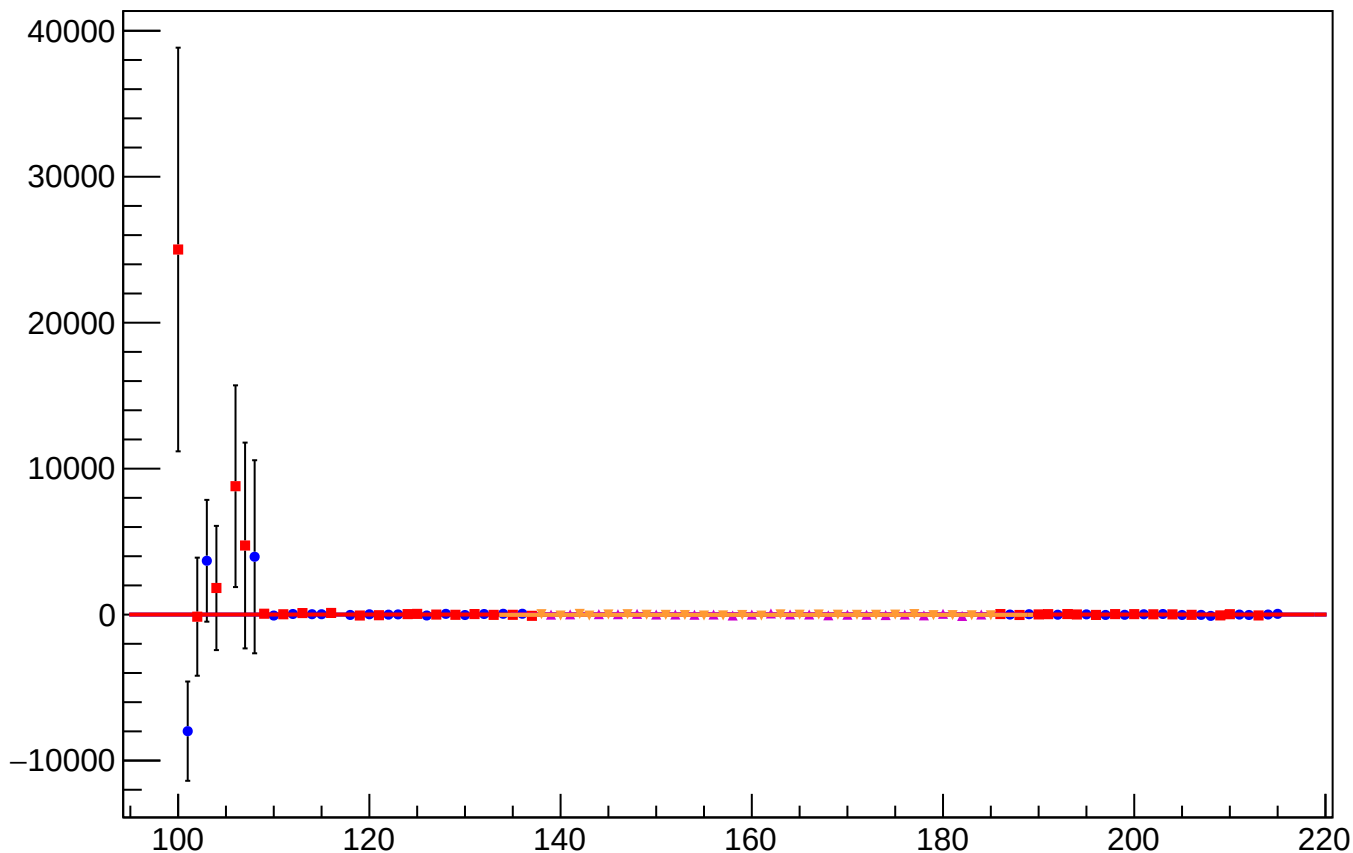
Right: 173.017+/-0.023 χ^2/NDF : 9968514.8/65

In: 178.551+/-0.023 χ^2/NDF :6045278.6/54

Out: 185.562+/-0.024 χ^2/NDF :7605285.5/58

All: 181.923+/-0.016 χ^2/NDF : 13696414.3/111

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.595 $\pm$ 6.919 χ^2 /NDF: 33.5/31

Left Out: -17.580 $\pm$ 6.694 χ^2 /NDF:22.3/24

Right Out: 5.442 $\pm$ 7.034 χ^2 /NDF: 38.5/33

Left In: 1.038 $\pm$ 6.880 χ^2 /NDF:32.4/22

Left: -8.527 $\pm$ 4.798 χ^2 /NDF: 58.5/47

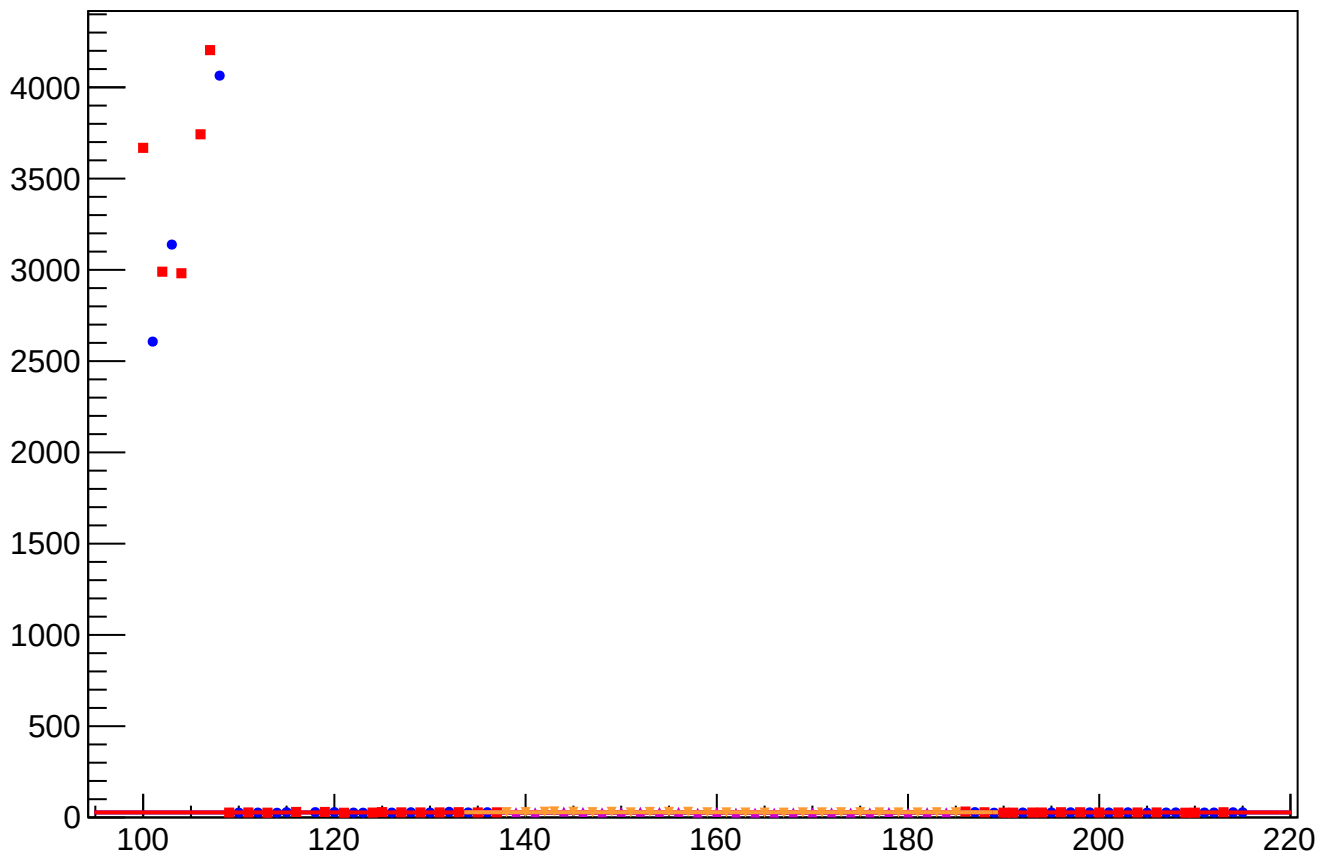
Right: 3.487 $\pm$ 4.932 χ^2 /NDF: 72.2/65

In: 1.315 $\pm$ 4.879 χ^2 /NDF:65.9/54

Out: -6.639 $\pm$ 4.849 χ^2 /NDF:66.4/58

All: -2.686 $\pm$ 3.439 χ^2 /NDF: 133.7/113

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.506 $\pm$ 0.005 χ^2 /NDF: 3044324.5/31

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.471 $\pm$ 0.005 χ^2 /NDF: 3513839.6/33

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF: 124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

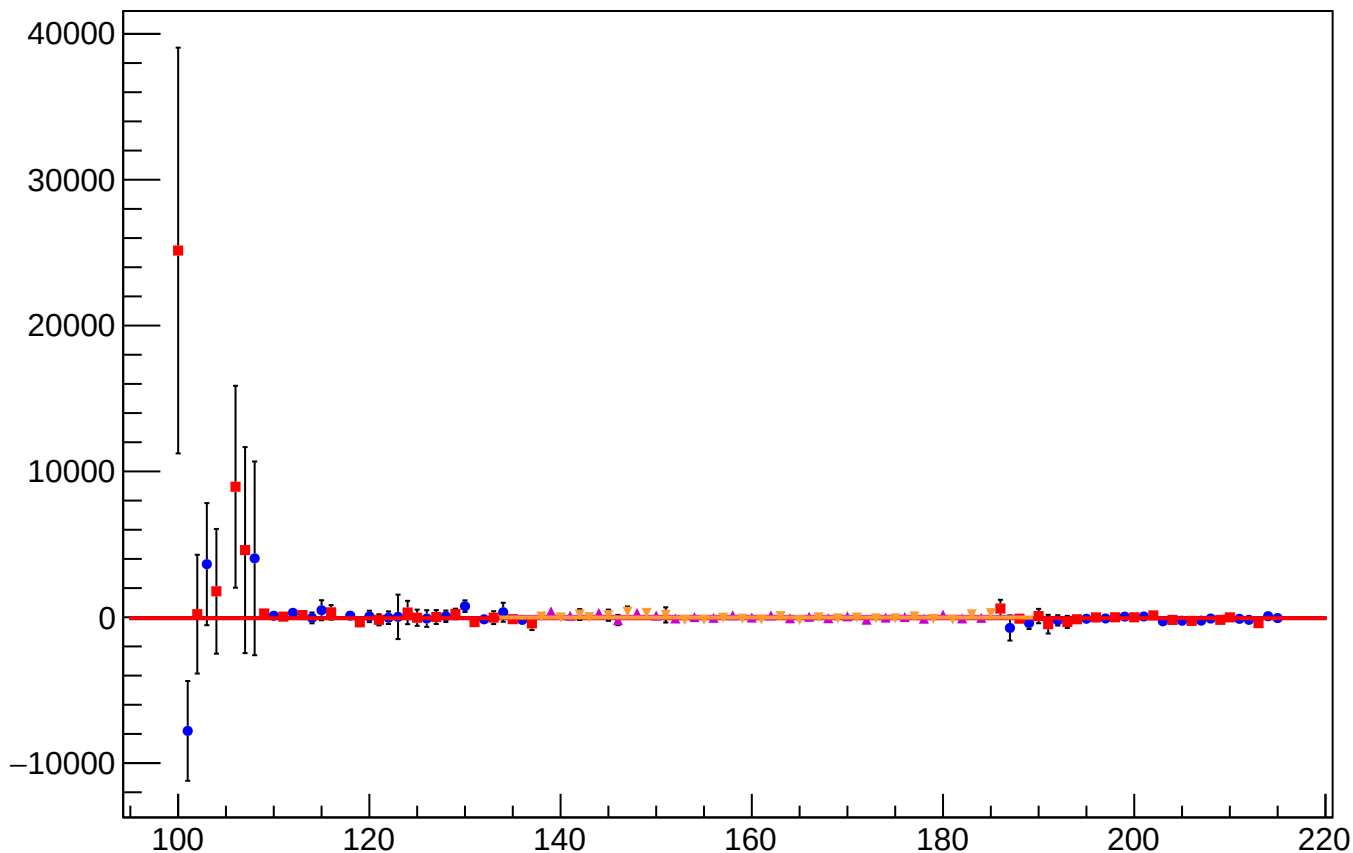
Right: 27.489 $\pm$ 0.003 χ^2 /NDF: 6558189.2/65

In: 28.093 $\pm$ 0.003 χ^2 /NDF: 3197664.8/54

Out: 28.111 $\pm$ 0.003 χ^2 /NDF: 3655876.2/58

All: 28.102 $\pm$ 0.002 χ^2 /NDF: 6853555.4/113

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.515+/-44.816 χ^2/NDF : 22.1/31

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -64.557+/-46.075 χ^2/NDF : 21.6/33

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

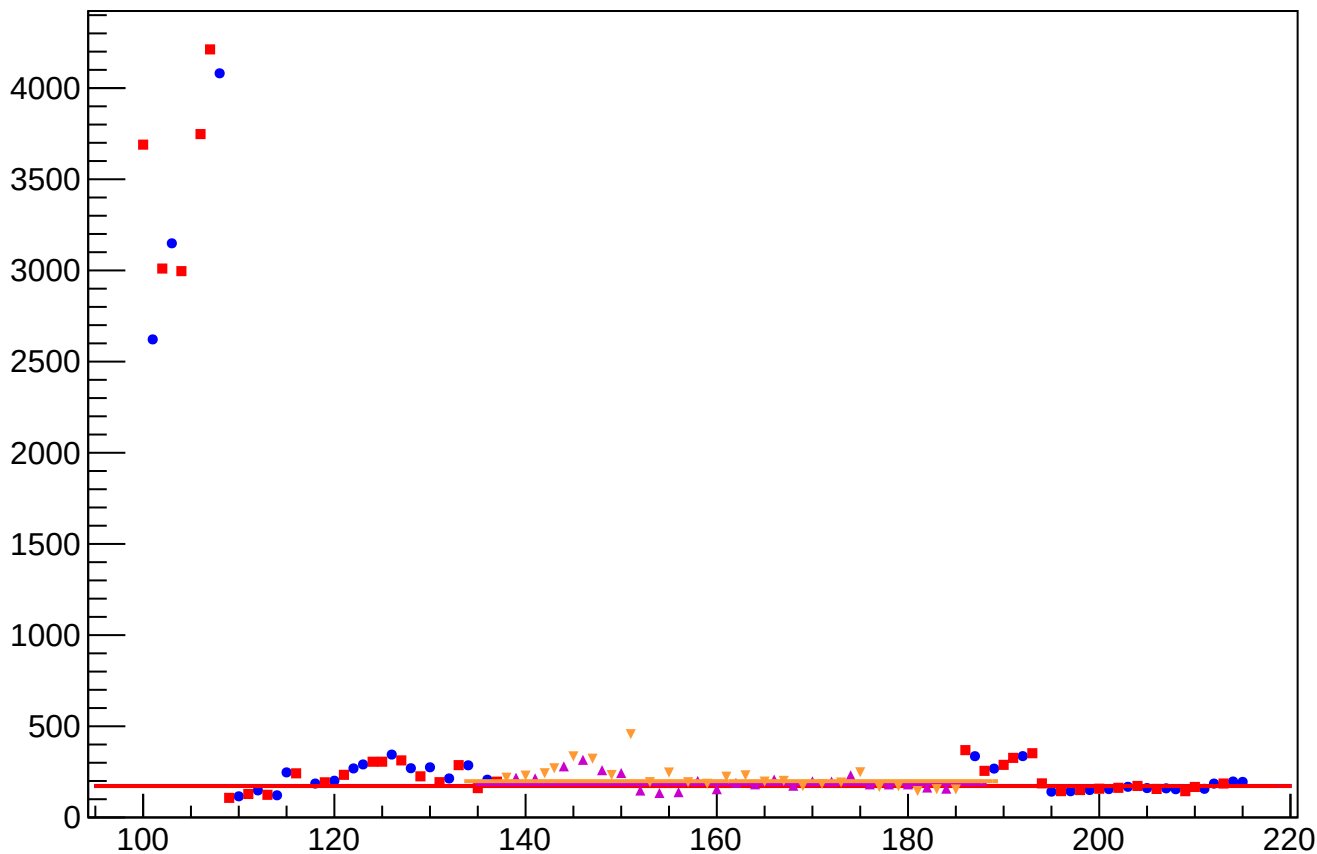
Right: -60.939+/-32.126 χ^2/NDF : 43.7/65

In: -16.156+/-32.027 χ^2/NDF : 31.7/54

Out: -41.079+/-33.276 χ^2/NDF : 30.8/58

All: -28.141+/-23.075 χ^2/NDF : 62.7/113

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.723+/-0.032 χ^2/NDF : 4579459.4/31

Left Out: 199.094+/-0.034 χ^2/NDF :1880343.4/24

Right Out: 172.176+/-0.033 χ^2/NDF : 5420304.6/33

Left In: 183.667+/-0.032 χ^2/NDF :1422895.7/22

Left: 190.999+/-0.023 χ^2/NDF : 3411149.8/47

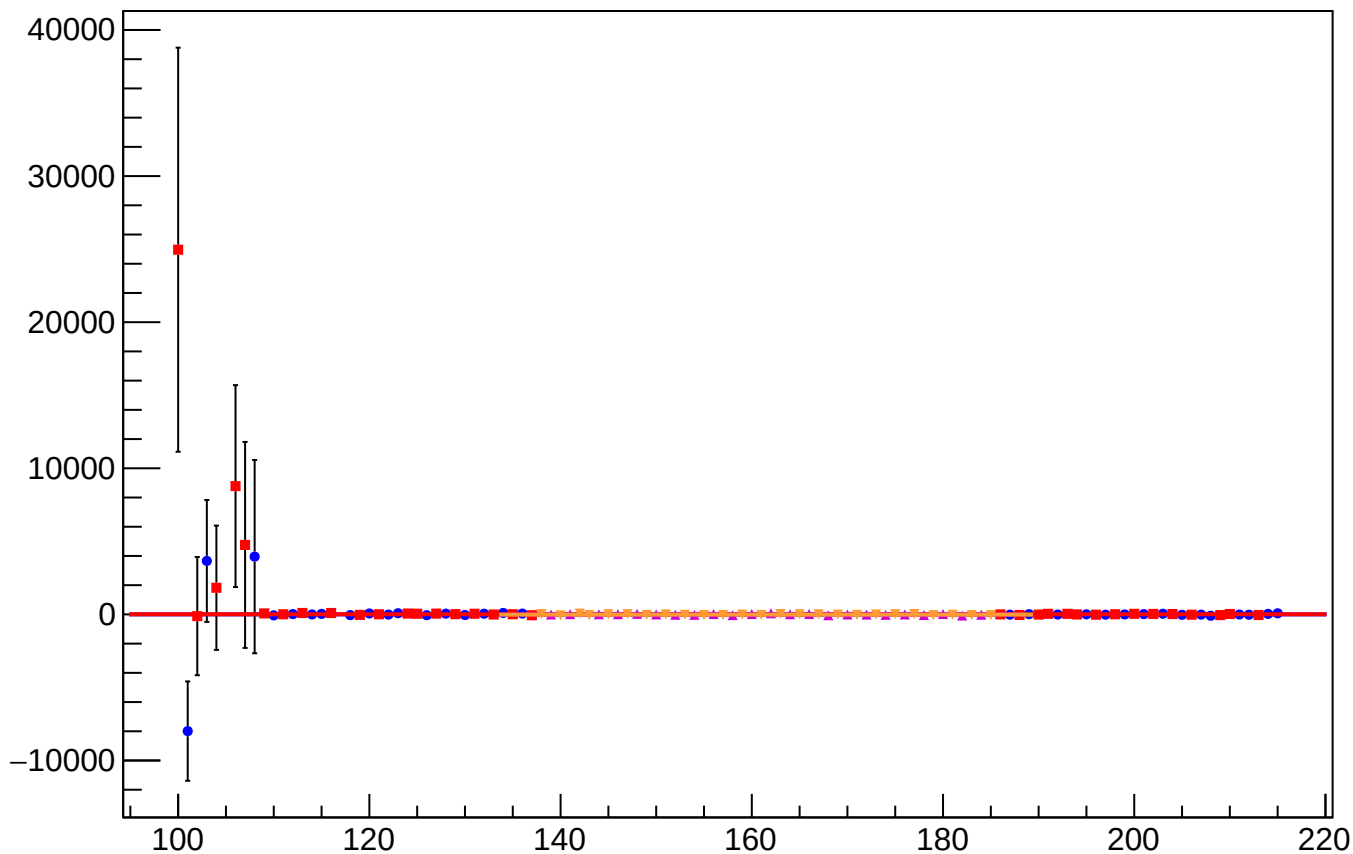
Right: 172.457+/-0.023 χ^2/NDF : 9999908.8/65

In: 178.078+/-0.023 χ^2/NDF :6060713.2/54

Out: 185.054+/-0.024 χ^2/NDF :7627216.4/58

All: 181.433+/-0.016 χ^2/NDF : 13733557.2/11

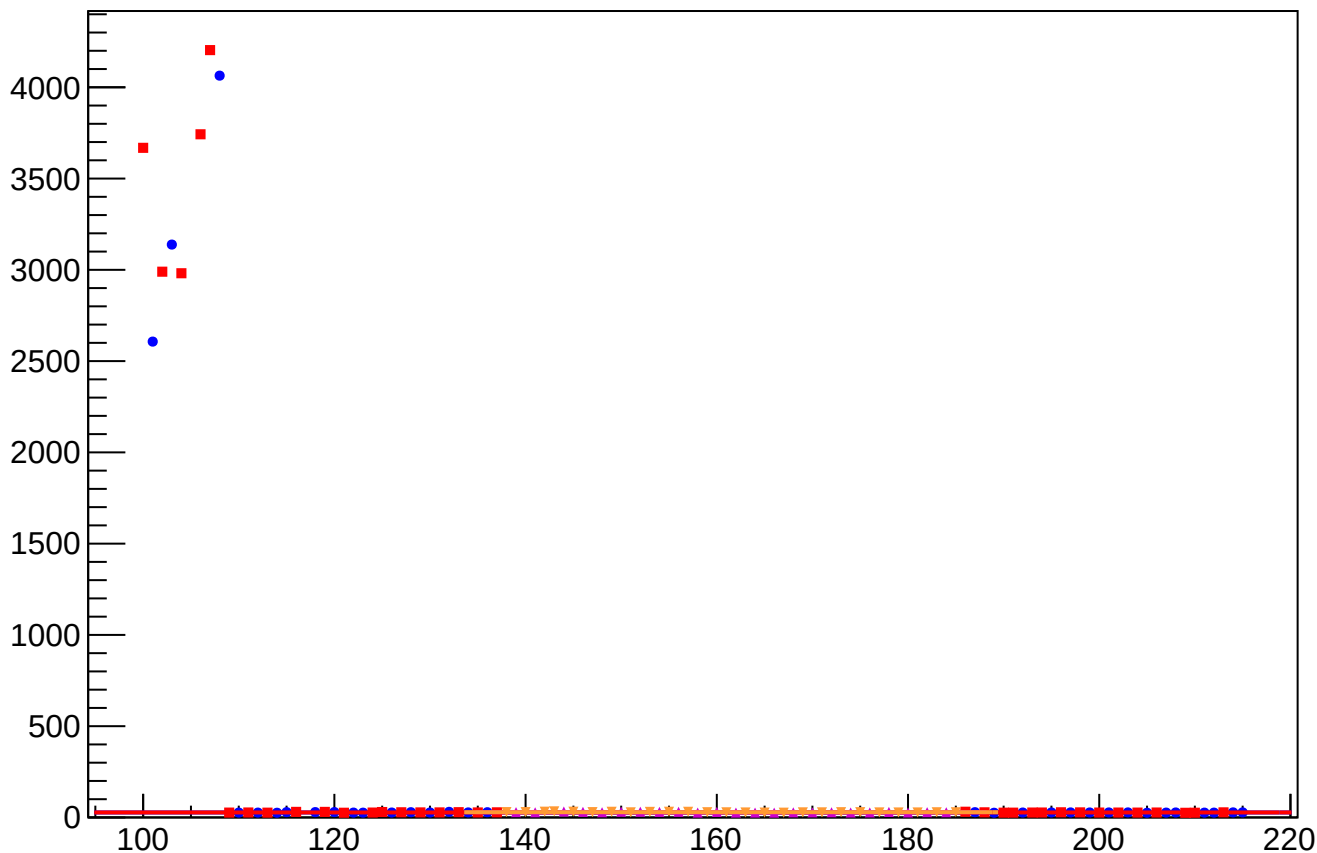
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.809 ± 6.882 $\chi^2/\text{NDF}: 41.1/31$
 Left Out: -15.006 ± 6.723 $\chi^2/\text{NDF}: 17.5/24$
 Right Out: 9.061 ± 7.011 $\chi^2/\text{NDF}: 32.9/33$
 Left In: -0.702 ± 6.909 $\chi^2/\text{NDF}: 26.4/22$

Left: -8.049 ± 4.819 $\chi^2/\text{NDF}: 46.0/47$
 Right: 5.367 ± 4.911 $\chi^2/\text{NDF}: 74.5/65$
 In: 0.558 ± 4.876 $\chi^2/\text{NDF}: 67.5/54$
 Out: -3.477 ± 4.853 $\chi^2/\text{NDF}: 56.5/58$
 All: -1.469 ± 3.440 $\chi^2/\text{NDF}: 124.3/113$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.353+/-0.005 χ^2 /NDF: 3051547.0/31

Left Out: 28.813+/-0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.381+/-0.005 χ^2 /NDF: 3517454.5/33

Left In: 28.792+/-0.005 χ^2 /NDF: 129393.1/22

Left: 28.803+/-0.003 χ^2 /NDF: 251375.8/47

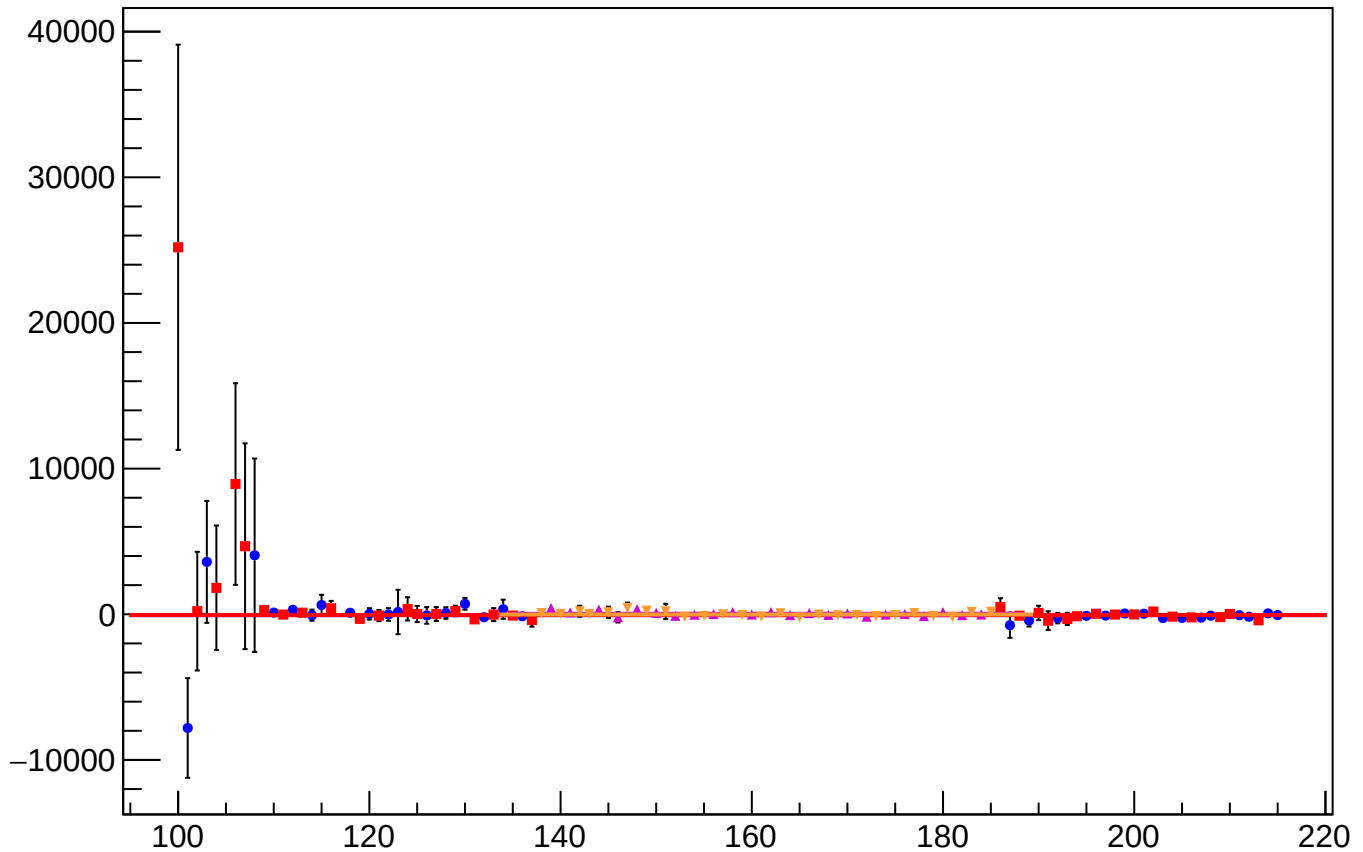
Right: 27.367+/-0.003 χ^2 /NDF: 6569017.6/65

In: 28.070+/-0.003 χ^2 /NDF: 3224494.4/54

Out: 28.127+/-0.003 χ^2 /NDF: 3682857.1/58

All: 28.099+/-0.002 χ^2 /NDF: 6907488.3/113

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.652 ± 45.110 χ^2/NDF : 22.2/31

Left Out: -15.548 ± 48.688 χ^2/NDF : 8.0/24

Right Out: -57.199 ± 46.406 χ^2/NDF : 21.1/33

Left In: 31.170 ± 46.359 χ^2/NDF : 8.2/22

Left: 8.955 ± 33.574 χ^2/NDF : 16.6/47

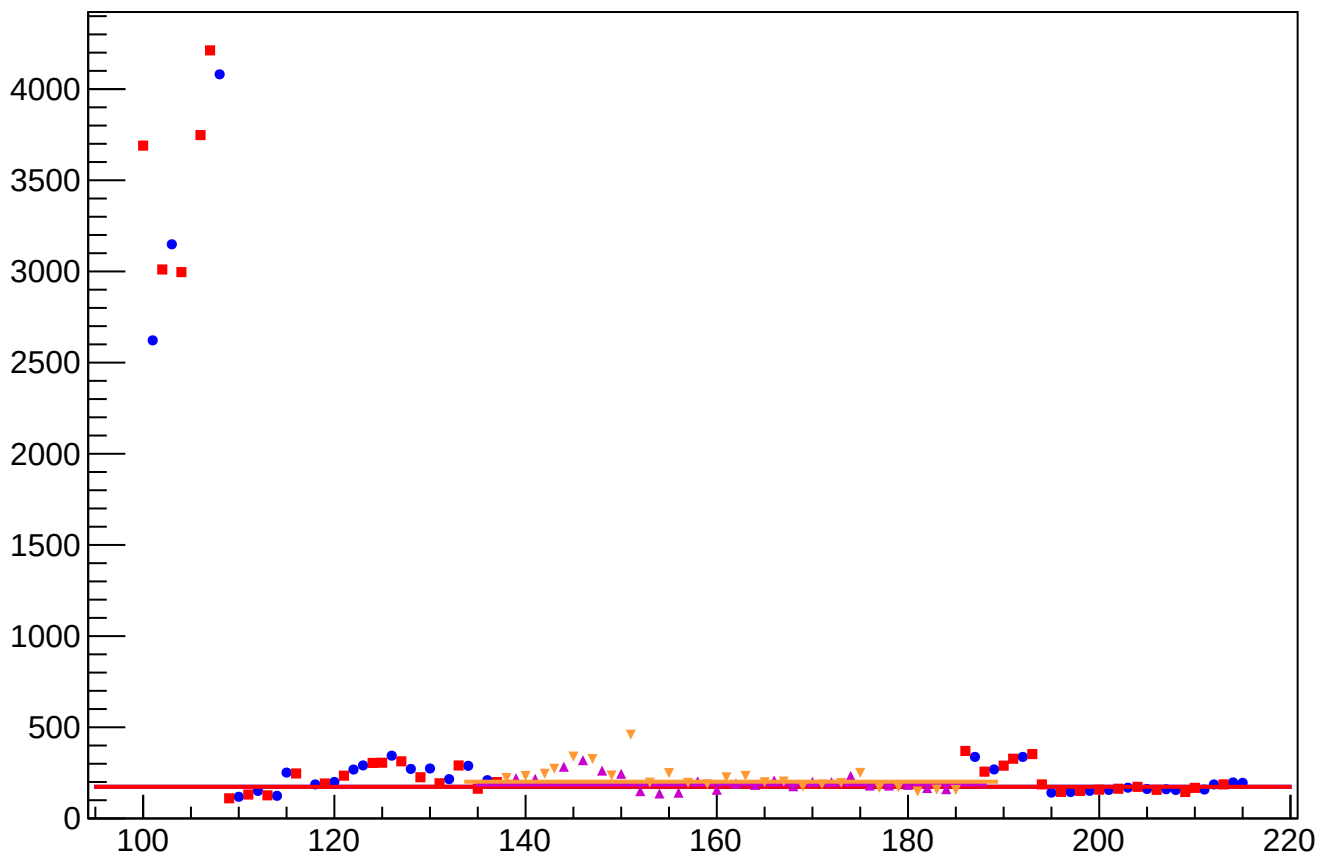
Right: -56.918 ± 32.346 χ^2/NDF : 43.3/65

In: -13.940 ± 32.330 χ^2/NDF : 32.2/54

Out: -37.373 ± 33.592 χ^2/NDF : 29.5/58

All: -25.208 ± 23.294 χ^2/NDF : 62.0/113

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.952+/-0.032 χ^2/NDF : 4543761.2/31

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 173.615+/-0.033 χ^2/NDF : 5360565.2/33

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

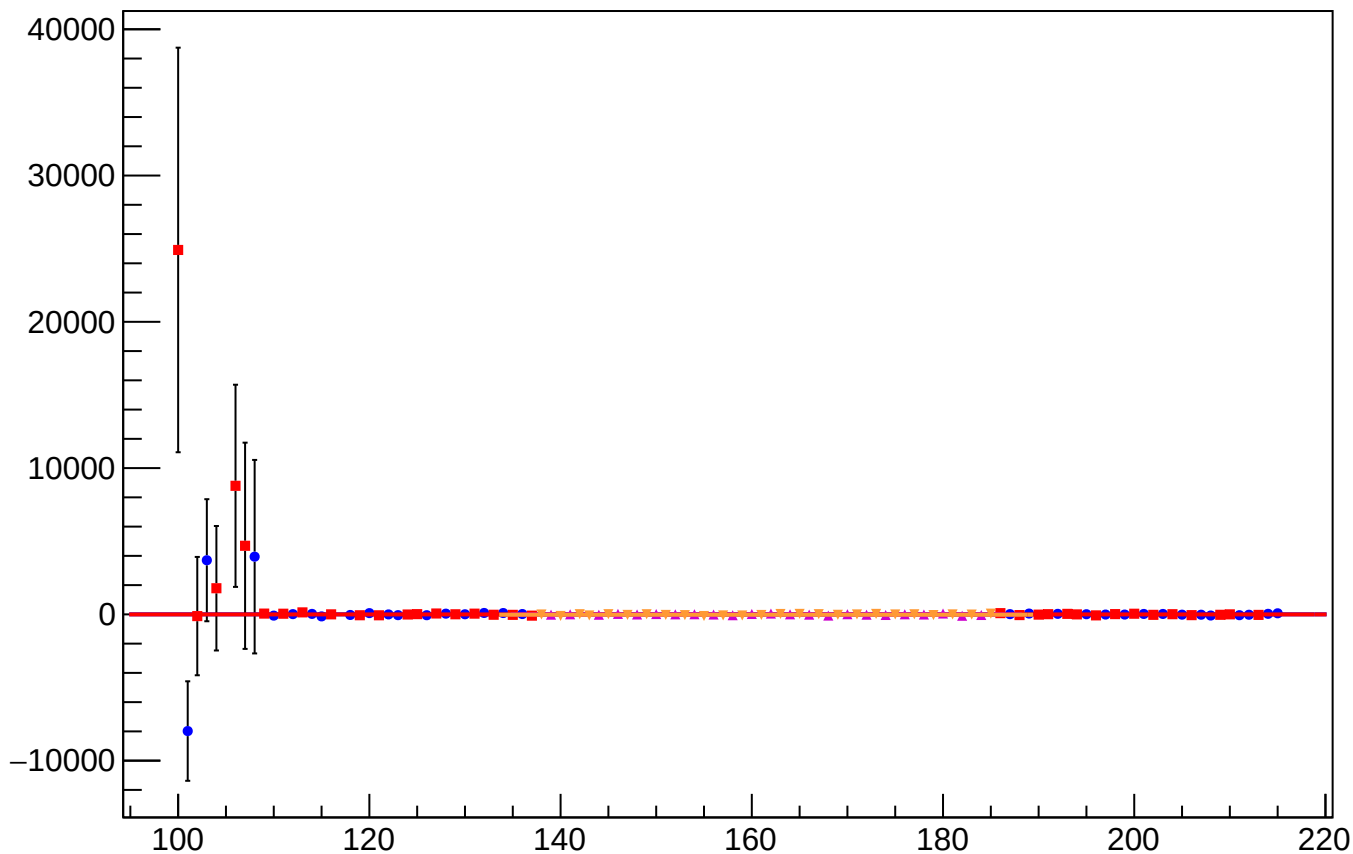
Right: 173.788+/-0.023 χ^2/NDF : 9904380.4/65

In: 179.863+/-0.023 χ^2/NDF :6005714.8/54

Out: 186.937+/-0.024 χ^2/NDF :7564233.4/58

All: 183.265+/-0.016 χ^2/NDF : 13615982.4/11

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.805 ± 8.395 $\chi^2/\text{NDF}: 35.0/31$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -2.528 ± 8.557 $\chi^2/\text{NDF}: 35.8/33$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

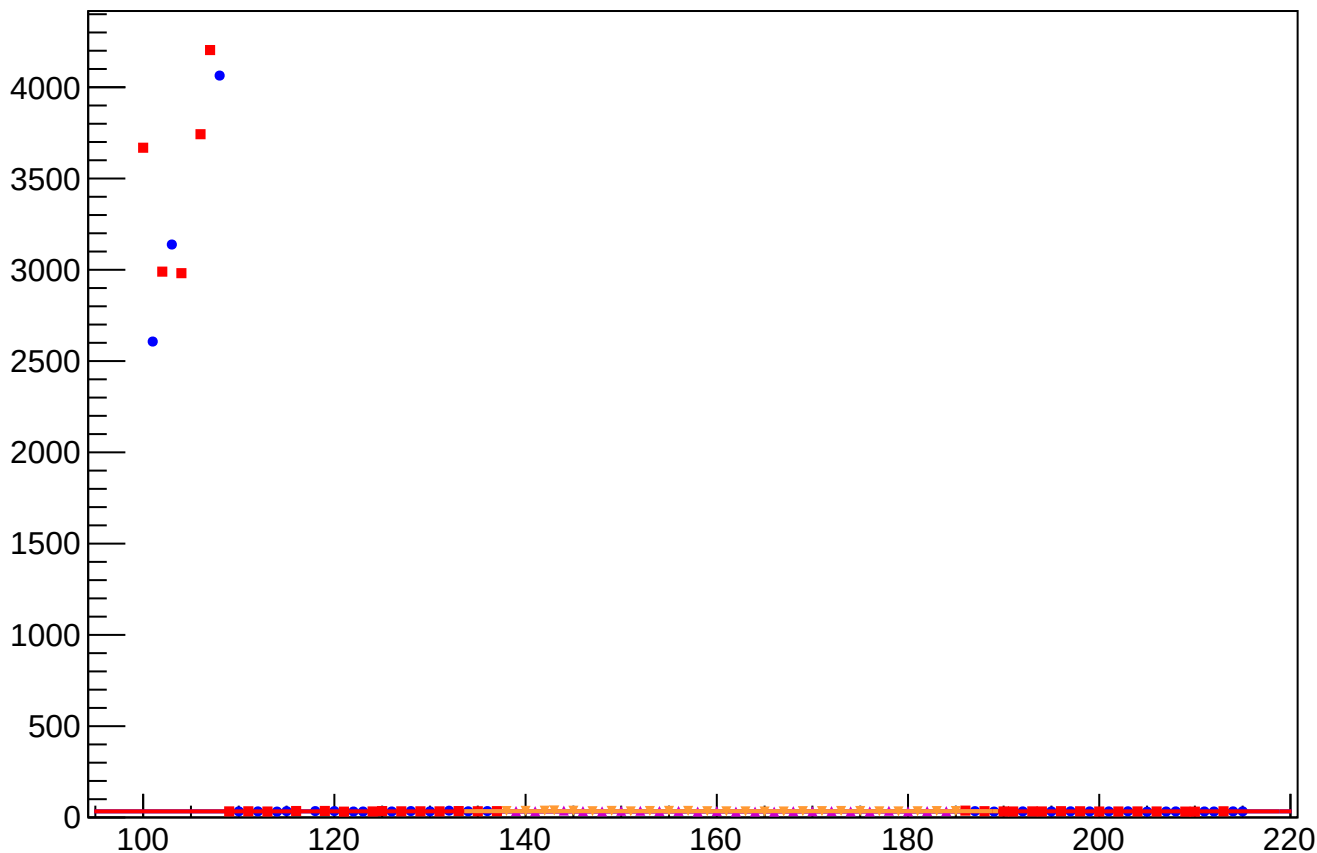
Right: 0.699 ± 5.993 $\chi^2/\text{NDF}: 71.1/65$

In: -1.149 ± 5.906 $\chi^2/\text{NDF}: 56.8/54$

Out: -13.561 ± 5.869 $\chi^2/\text{NDF}: 64.8/58$

All: -7.394 ± 4.163 $\chi^2/\text{NDF}: 123.8/113$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.394 $\pm$ 0.006 χ^2 /NDF: 3020528.1/31

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.467 $\pm$ 0.006 χ^2 /NDF: 3474207.8/33

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

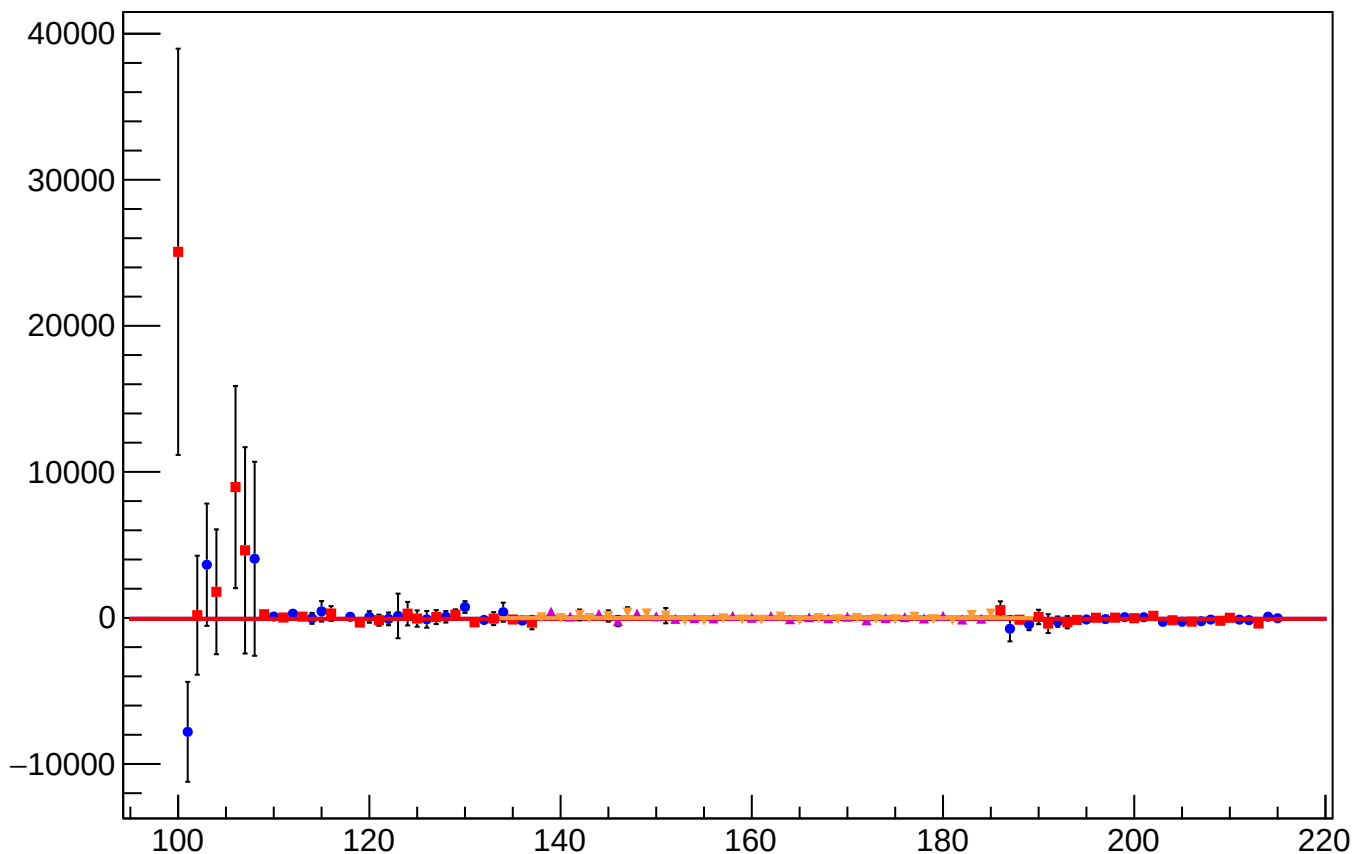
Right: 33.429 $\pm$ 0.004 χ^2 /NDF: 6494810.3/65

In: 34.046 $\pm$ 0.004 χ^2 /NDF: 3104752.4/54

Out: 34.075 $\pm$ 0.004 χ^2 /NDF: 3551207.3/58

All: 34.060 $\pm$ 0.003 χ^2 /NDF: 6655983.2/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.487 ± 44.983 χ^2/NDF : 22.0/31

Left Out: -8.916 ± 48.615 χ^2/NDF : 8.6/24

Right Out: -61.265 ± 46.237 χ^2/NDF : 19.4/33

Left In: 34.127 ± 46.296 χ^2/NDF : 7.4/22

Left: 13.656 ± 33.526 χ^2/NDF : 16.5/47

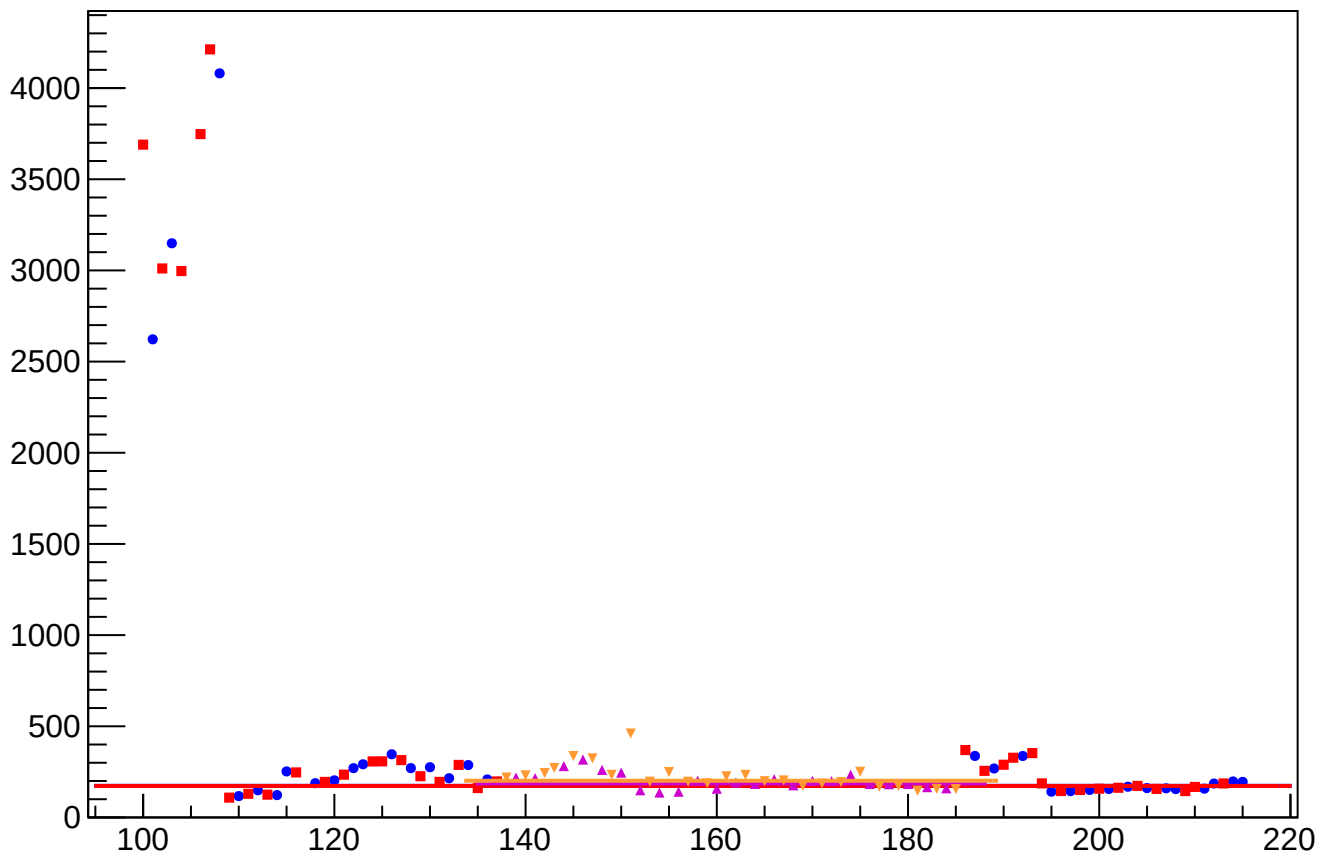
Right: -60.352 ± 32.242 χ^2/NDF : 41.4/65

In: -14.026 ± 32.262 χ^2/NDF : 31.5/54

Out: -36.403 ± 33.504 χ^2/NDF : 28.7/58

All: -24.792 ± 23.239 χ^2/NDF : 60.4/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.385+/-0.032 χ^2/NDF : 4574041.8/31

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 172.827+/-0.033 χ^2/NDF : 5408673.4/33

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

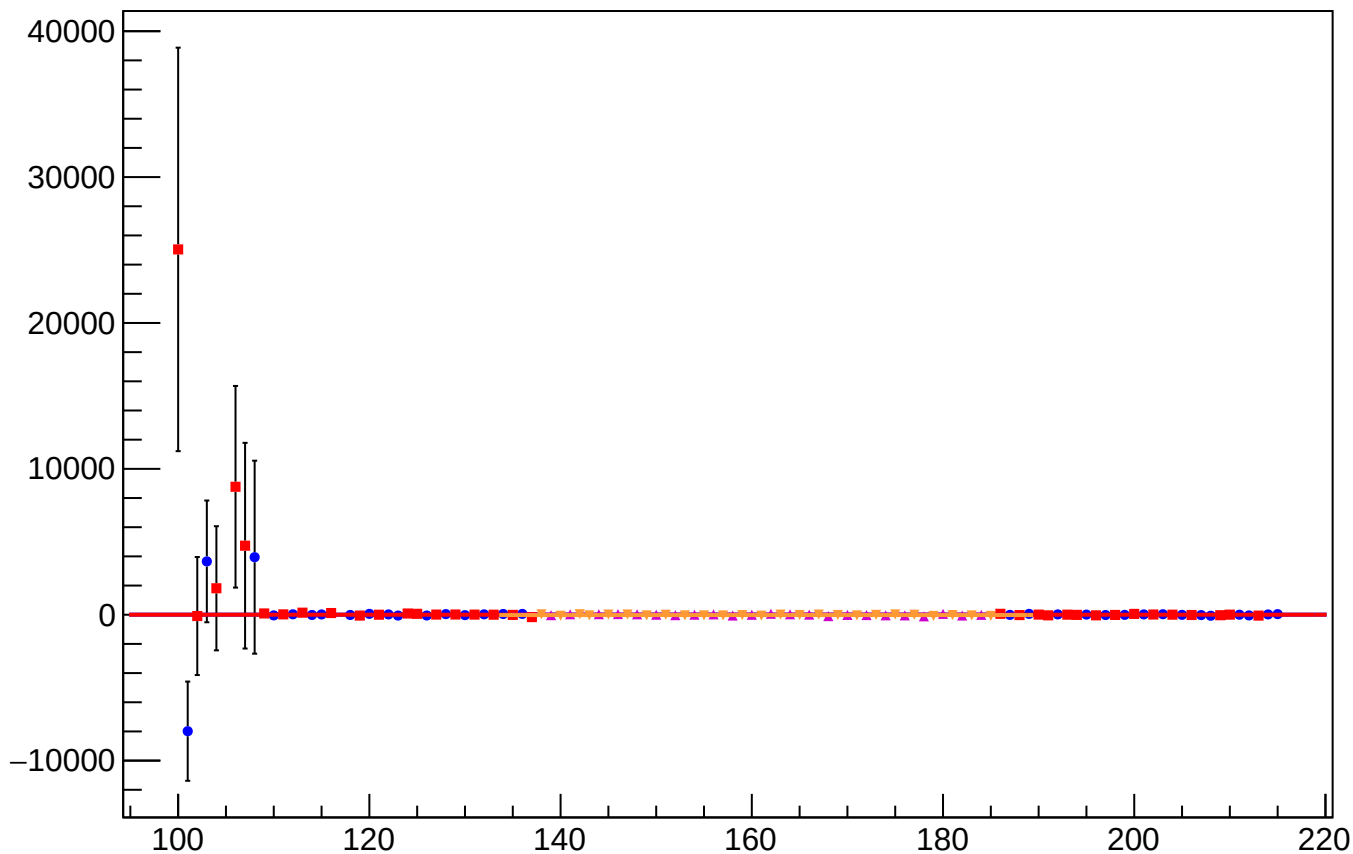
Right: 173.114+/-0.023 χ^2/NDF : 9982864.9/65

In: 179.440+/-0.023 χ^2/NDF :6030435.2/54

Out: 186.349+/-0.024 χ^2/NDF :7619923.1/58

All: 182.764+/-0.016 χ^2/NDF : 13694480.0/131

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.675+/-7.597 χ^2/NDF : 26.5/31

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 1.993+/-7.745 χ^2/NDF : 41.9/33

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

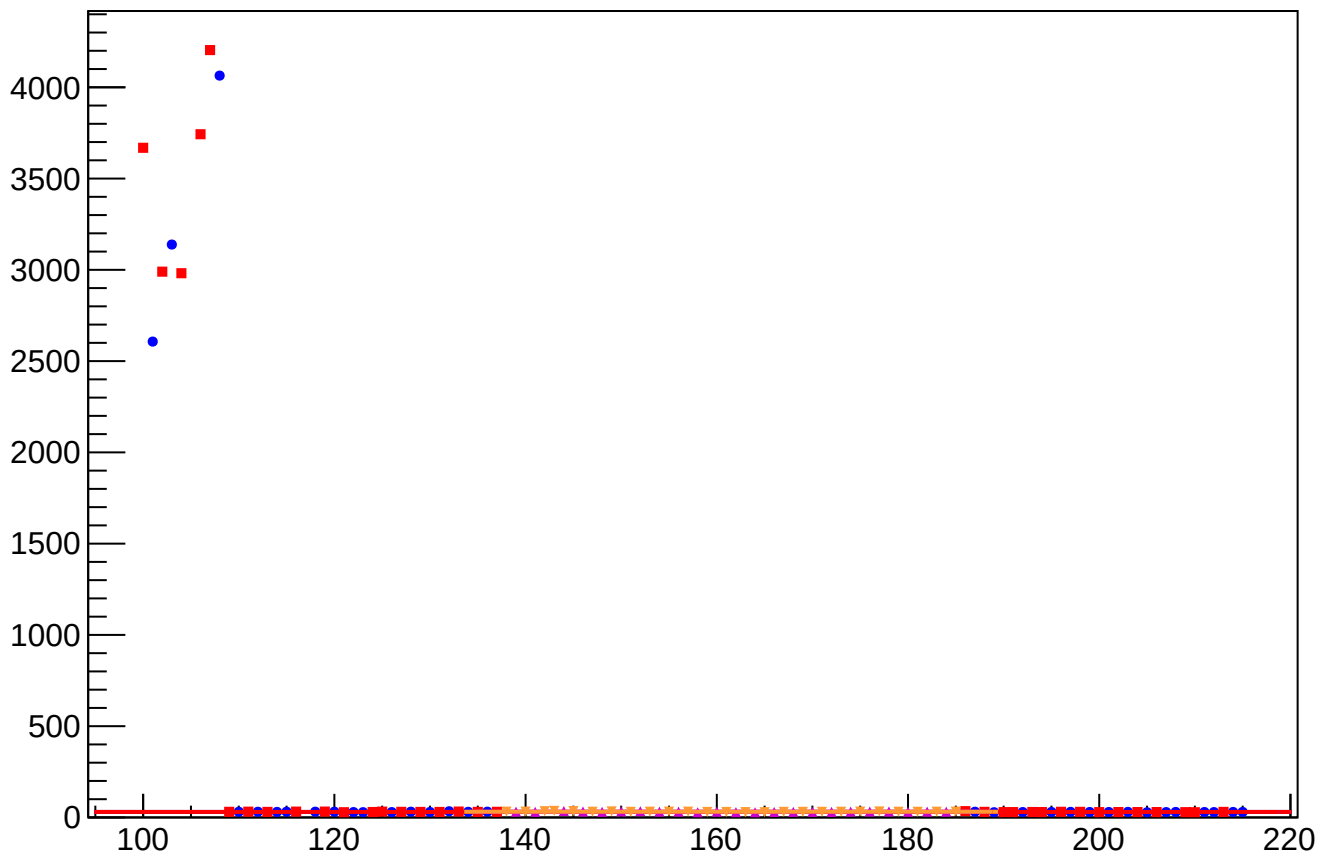
Right: 3.360+/-5.424 χ^2/NDF : 68.4/65

In: -0.668+/-5.355 χ^2/NDF : 65.8/54

Out: -11.111+/-5.328 χ^2/NDF : 66.0/58

All: -5.916+/-3.777 χ^2/NDF : 133.8/113

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.208 $\pm$ 0.005 χ^2 /NDF: 3038376.5/31

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.268 $\pm$ 0.005 χ^2 /NDF: 3492178.6/33

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

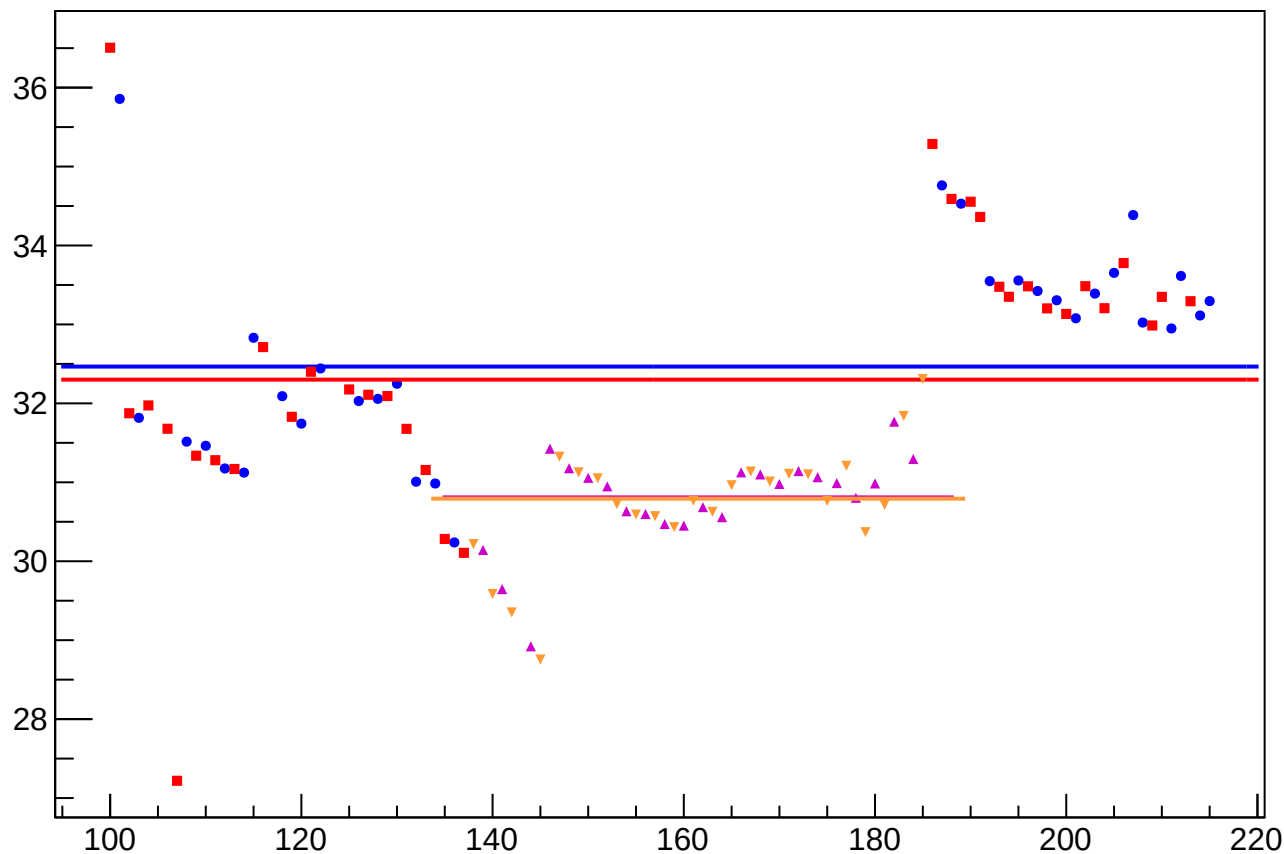
Right: 30.237 $\pm$ 0.004 χ^2 /NDF: 6530615.8/65

In: 30.850 $\pm$ 0.004 χ^2 /NDF:3154765.9/54

Out: 30.907 $\pm$ 0.004 χ^2 /NDF:3600503.9/58

All: 30.879 $\pm$ 0.003 χ^2 /NDF: 6755384.0/113

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.466+/-0.000

χ^2/NDF : 3022218726.7/30

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right Out: 32.301+/-0.000

χ^2/NDF : 2528221588.4/32

Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Right: 32.388+/-0.000

χ^2/NDF : 5576800635.5/63

In: 31.527+/-0.000

χ^2/NDF : 7014705365.3/53

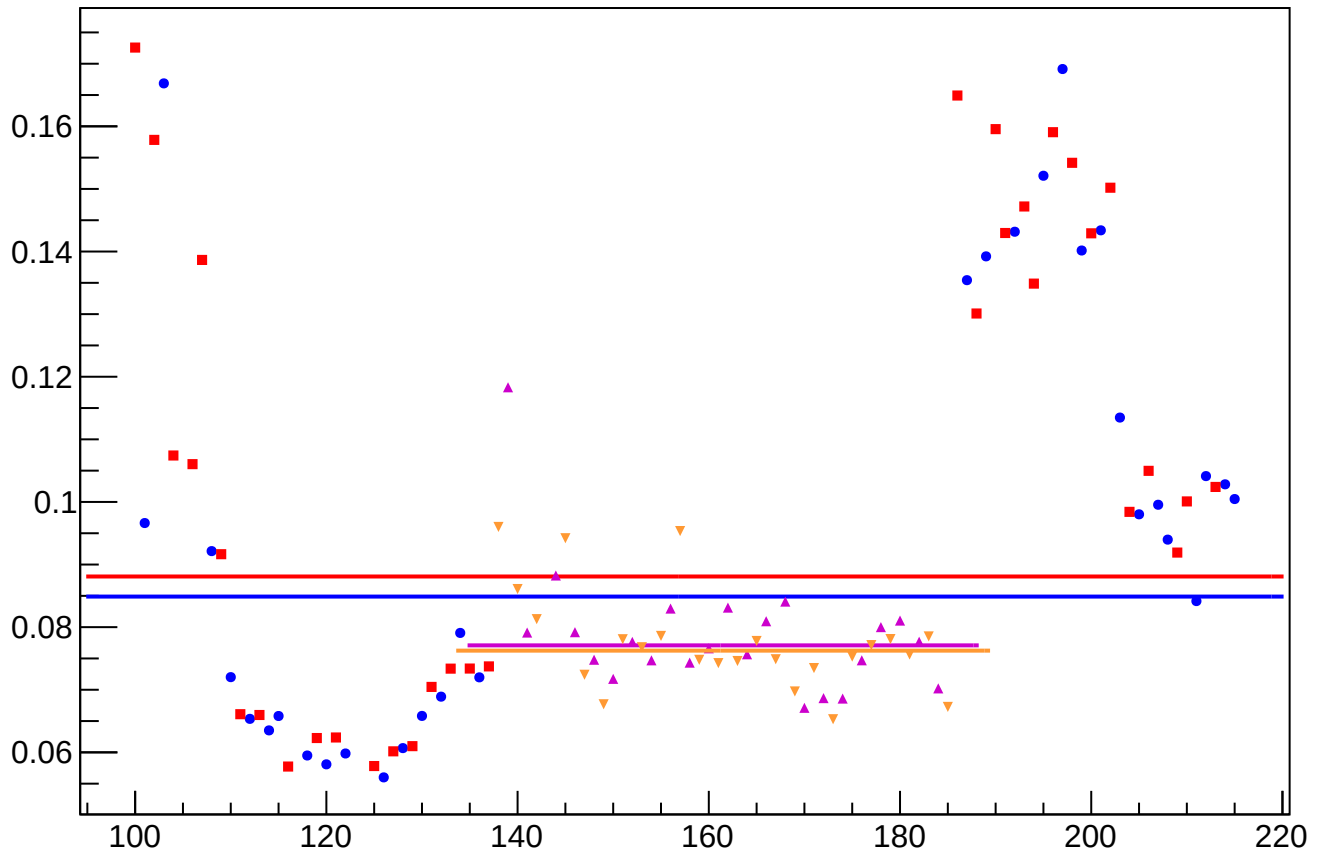
Out: 31.395+/-0.000

χ^2/NDF : 6043691369.4/56

All: 31.462+/-0.000

χ^2/NDF : 13098729807.4

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.085+/-0.000 χ^2/NDF : 3274365.1/30

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.088+/-0.000 χ^2/NDF : 3659822.0/32

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

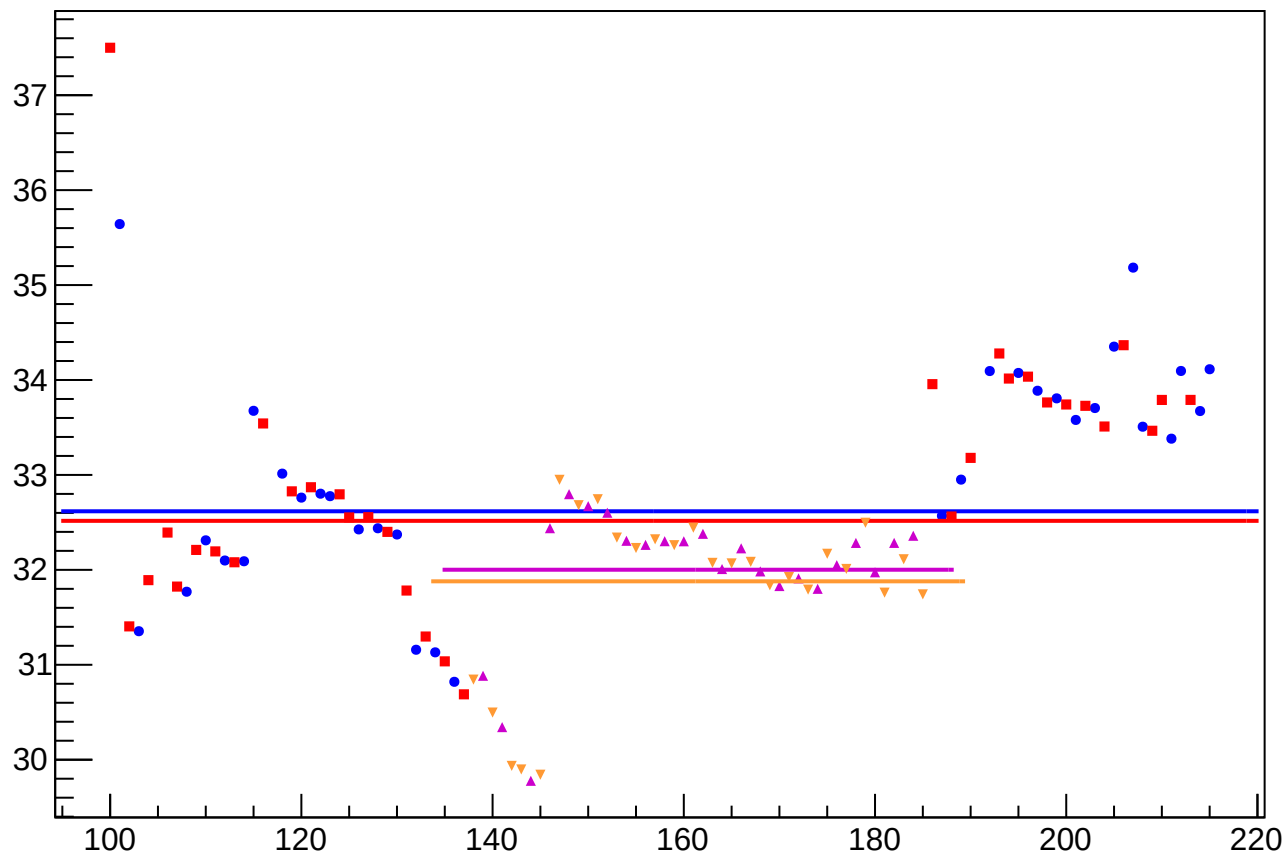
Right: 0.086+/-0.000 χ^2/NDF : 6954061.9/63

In: 0.080+/-0.000 χ^2/NDF : 3740524.5/53

Out: 0.081+/-0.000 χ^2/NDF : 4247042.2/56

All: 0.081+/-0.000 χ^2/NDF : 7988792.6/110

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.617+/-0.000 χ^2/NDF : 1645675448.5/31

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.516+/-0.000 χ^2/NDF : 938724936.3/32

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

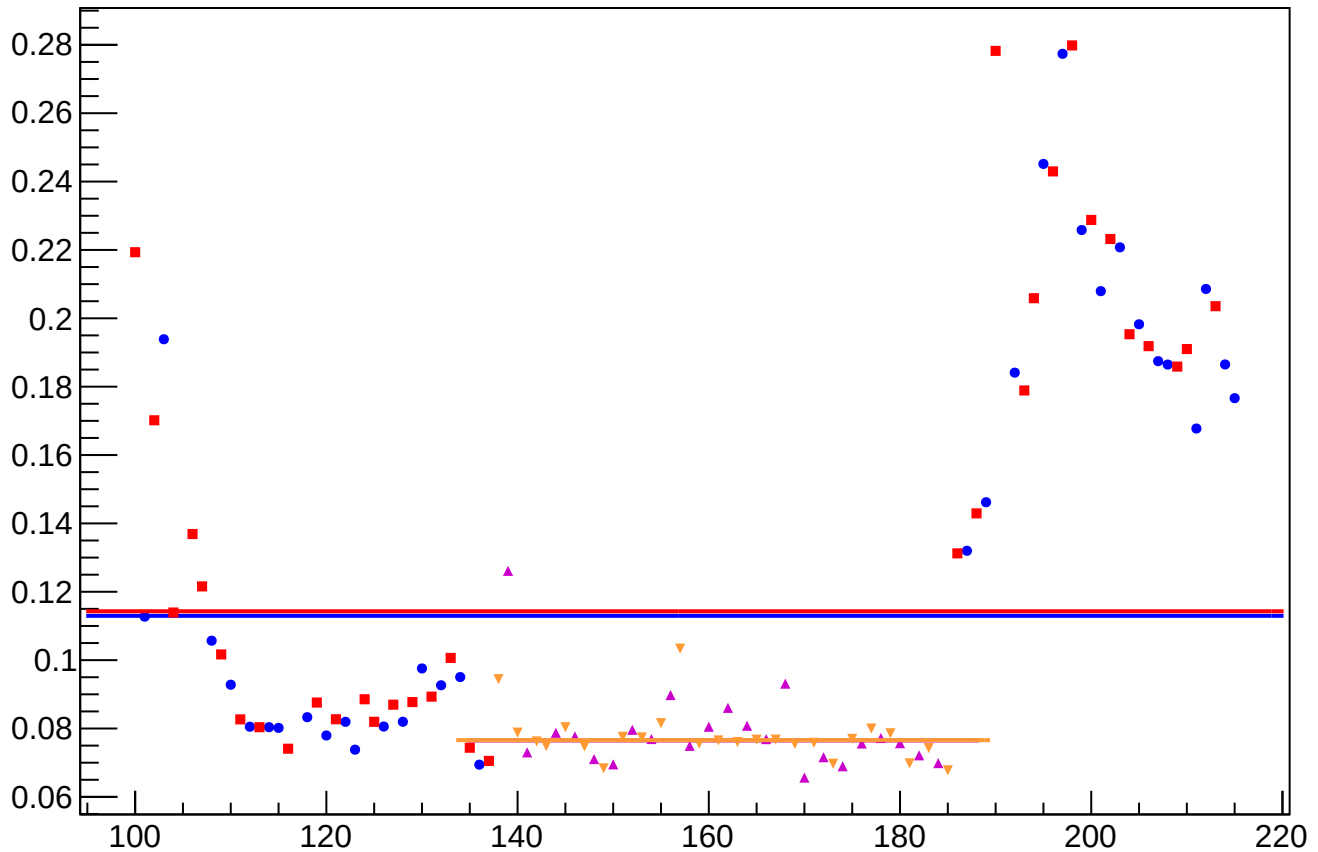
Right: 32.568+/-0.000 χ^2/NDF : 2589624939.5/64

In: 32.171+/-0.000 χ^2/NDF : 3344481299.2/54

Out: 32.045+/-0.000 χ^2/NDF : 3219035605.5/57

All: 32.107+/-0.000 χ^2/NDF : 6594206321.5/111

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.113 $\pm$ 0.000 χ^2 /NDF: 5616246.2/31

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.114 $\pm$ 0.000 χ^2 /NDF: 5075884.0/32

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

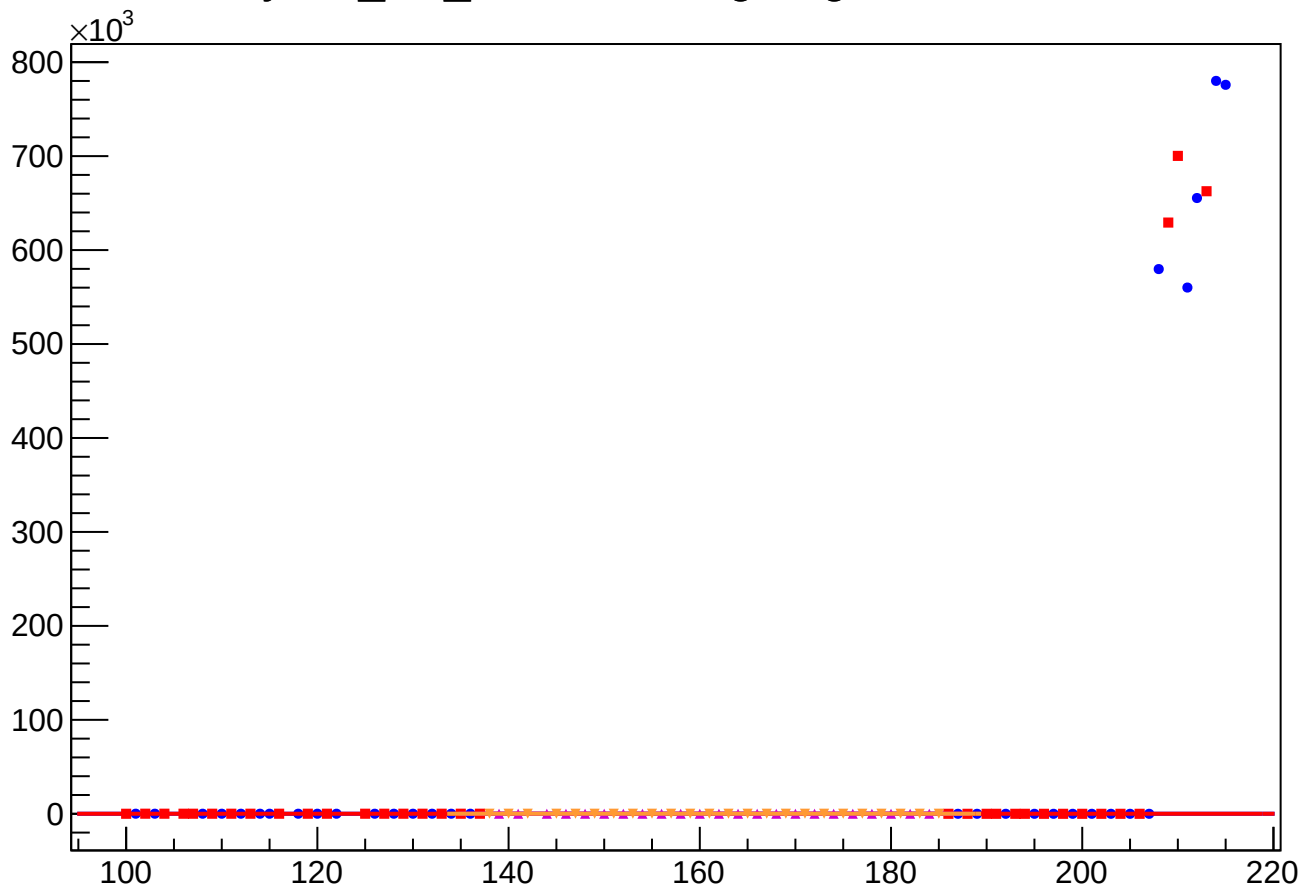
Right: 0.114 $\pm$ 0.000 χ^2 /NDF: 10693977.7/64

In: 0.087 $\pm$ 0.000 χ^2 /NDF:8067454.6/54

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:7416177.5/57

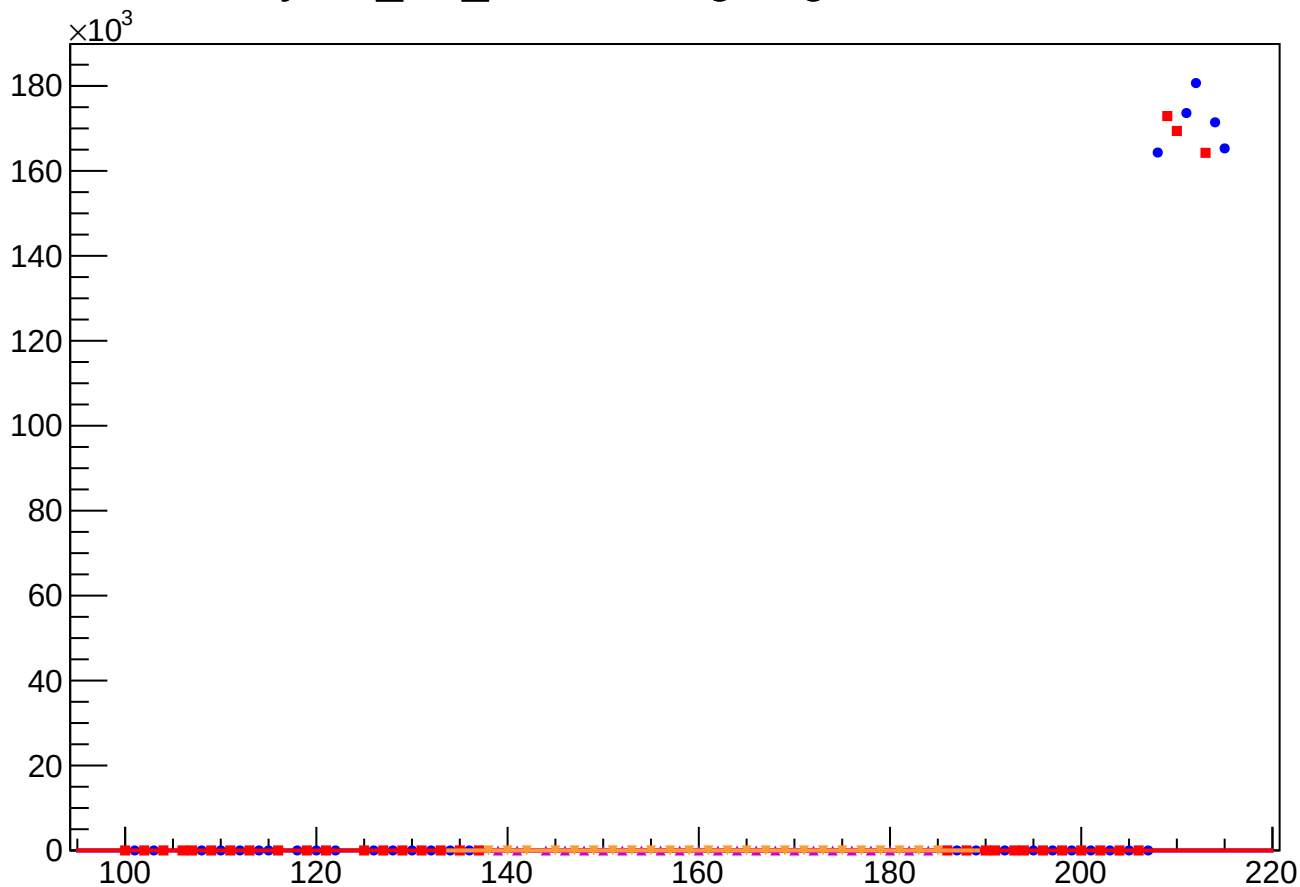
All: 0.086 $\pm$ 0.000 χ^2 /NDF: 15483735.5/112

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853554000542.4/30	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419904150603.2/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528442668478.4/32	In: 71.422+/-0.000	χ^2/NDF : 13699390811491.0/53
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306995430507.8/5
		All: 70.353+/-0.000	χ^2/NDF : 2903831191767

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 7420716.1/30

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 4977622.0/32

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

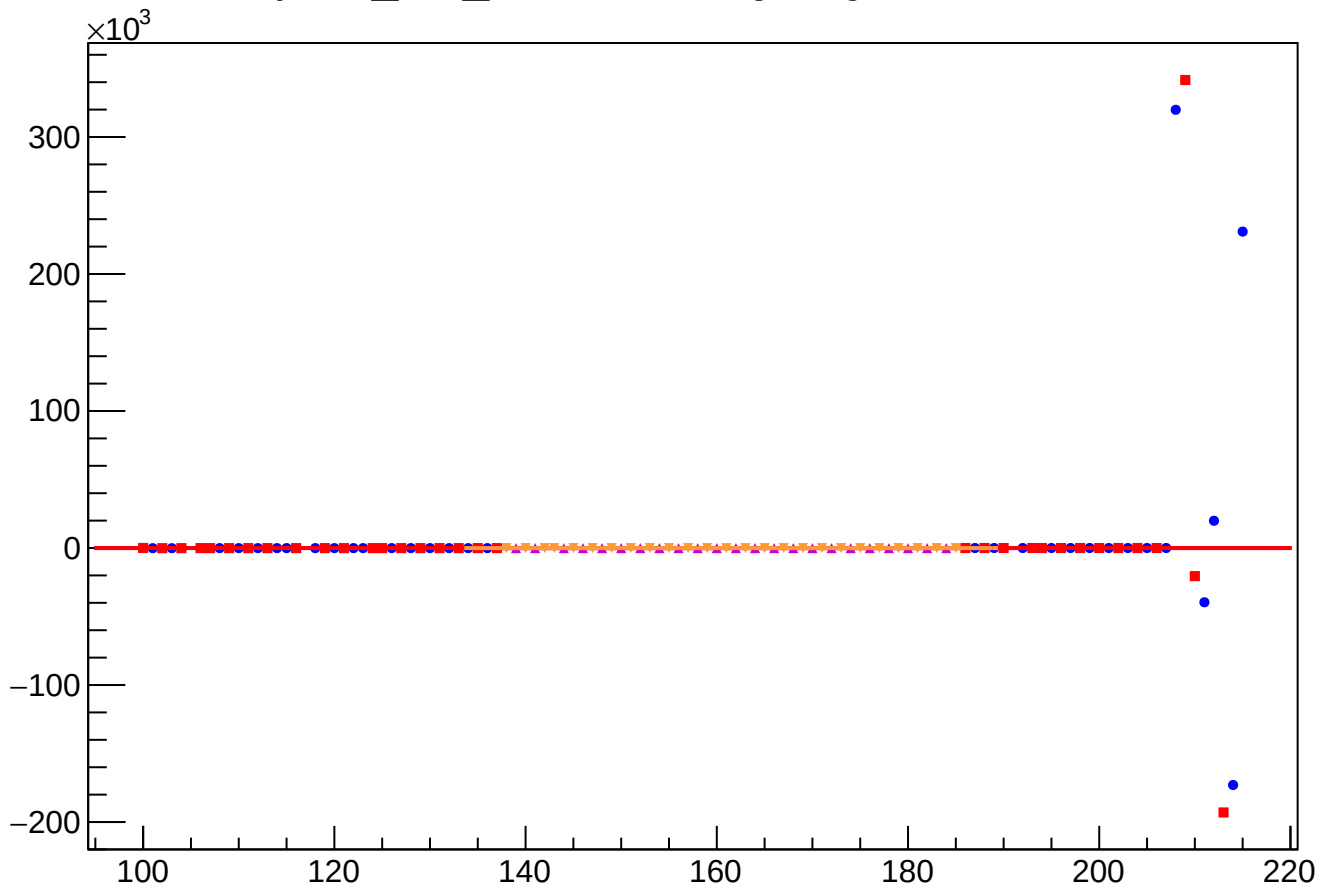
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 12398342.0/63

In: 0.046 $\pm$ 0.000 χ^2 /NDF:7690030.9/53

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:5203874.4/56

All: 0.046 $\pm$ 0.000 χ^2 /NDF: 12894448.3/110

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000

χ^2/NDF : 7479129971869.0/31

Left: -69.460+/-0.000

χ^2/NDF : 102399164.0/47

Left Out: -69.461+/-0.000

χ^2/NDF : 49572401.9/24

Right: -29.369+/-0.000

χ^2/NDF : 14808901354351.2

Right Out: -28.760+/-0.000

χ^2/NDF : 7325681975702.7/32

In: -50.762+/-0.000

χ^2/NDF : 11497071565897.3/5

Out: -50.075+/-0.000

χ^2/NDF : 11926091267200.9/

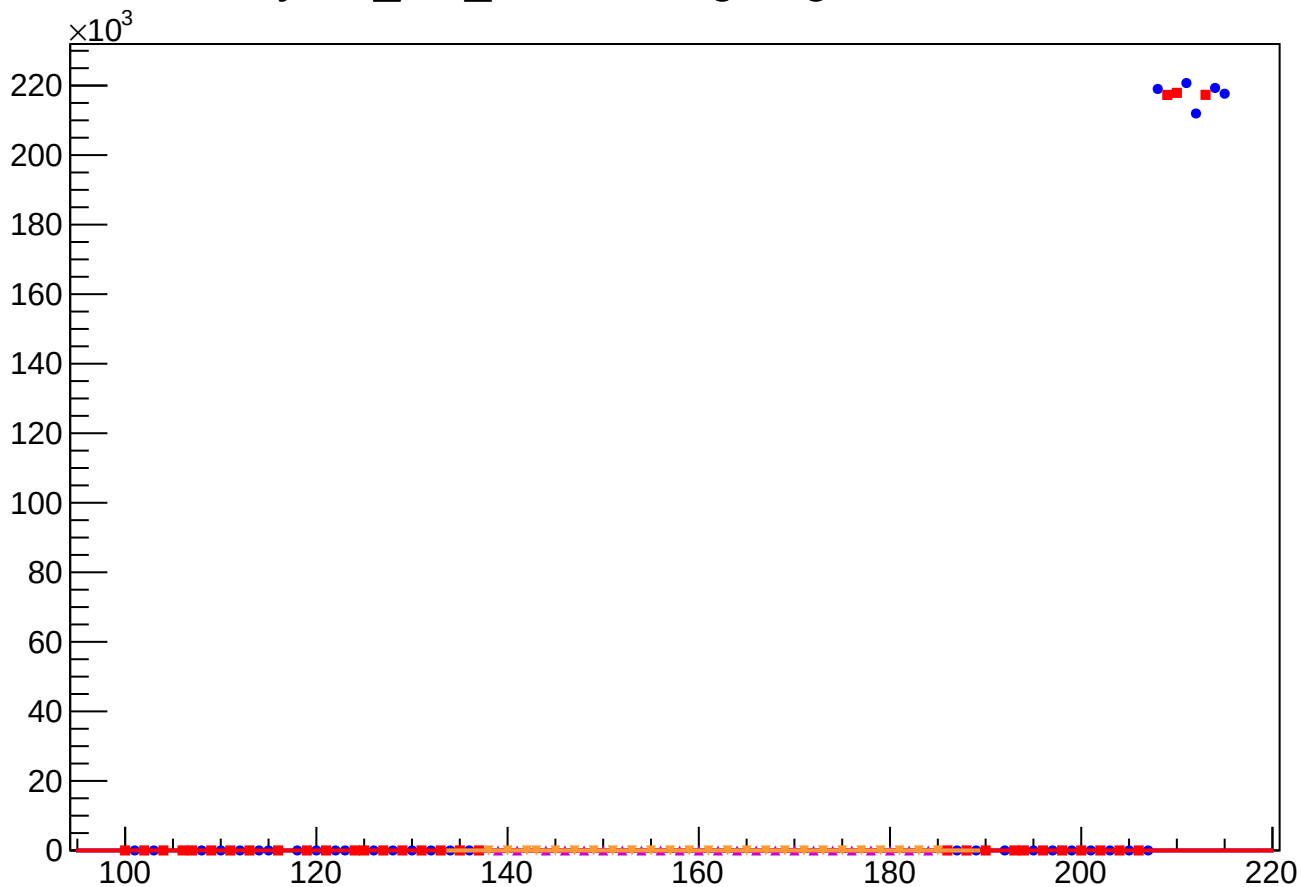
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -50.406+/-0.000

χ^2/NDF : 234256951630

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2/NDF : 7190612.7/31

Left Out: 0.055 $\pm$ 0.000 χ^2/NDF : 38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2/NDF : 4579288.8/32

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

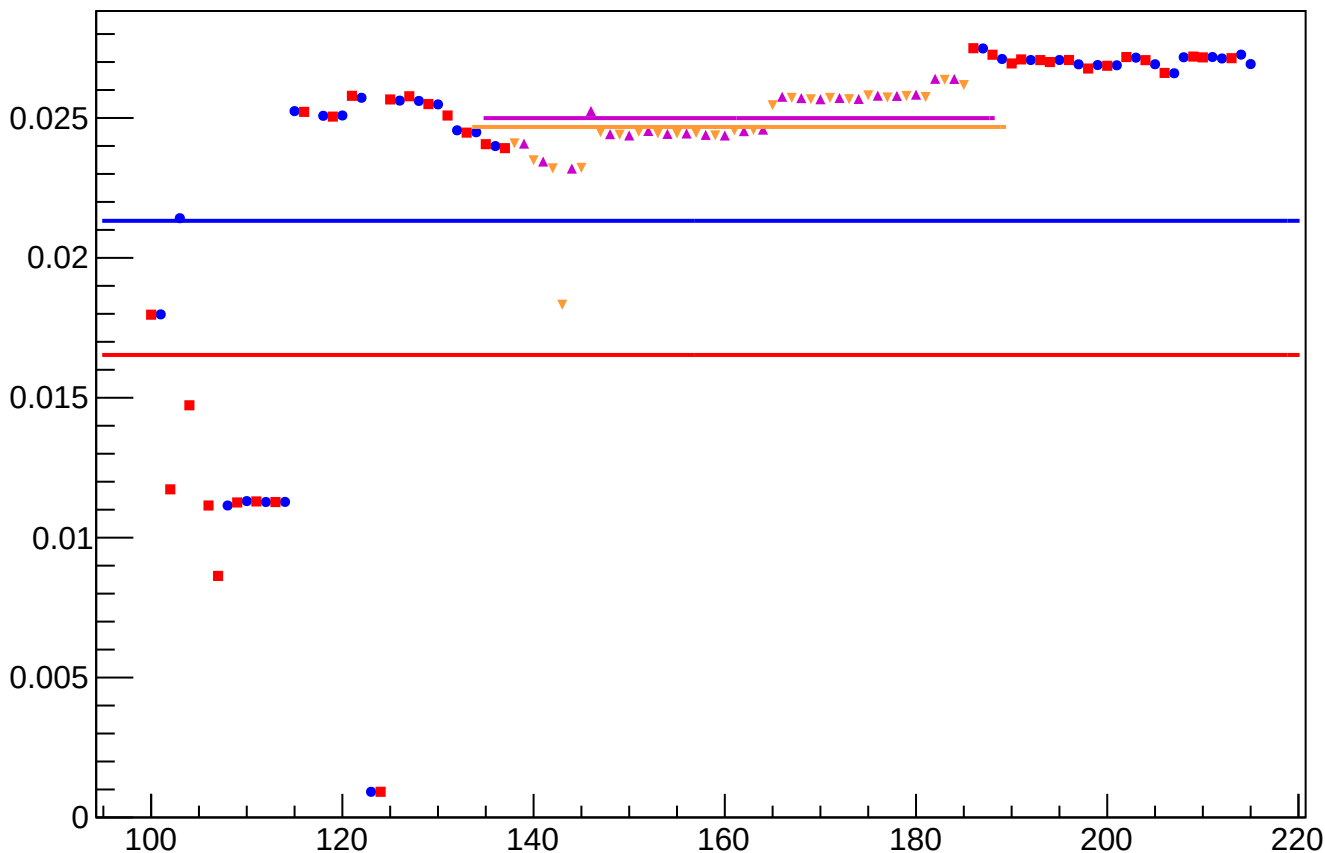
Right: 0.052 $\pm$ 0.000 χ^2/NDF : 11769949.4/64

In: 0.054 $\pm$ 0.000 χ^2/NDF : 7304664.1/54

Out: 0.054 $\pm$ 0.000 χ^2/NDF : 4673942.7/57

All: 0.054 $\pm$ 0.000 χ^2/NDF : 11979304.4/112

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 201047898958.3/31

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 669136985957.4/65

Right Out: 0.017+/-0.000

χ^2/NDF : 430739877035.8/33

In: 0.023+/-0.000

χ^2/NDF : 225237495909.2/54

Out: 0.021+/-0.000

χ^2/NDF : 561544693322.3/58

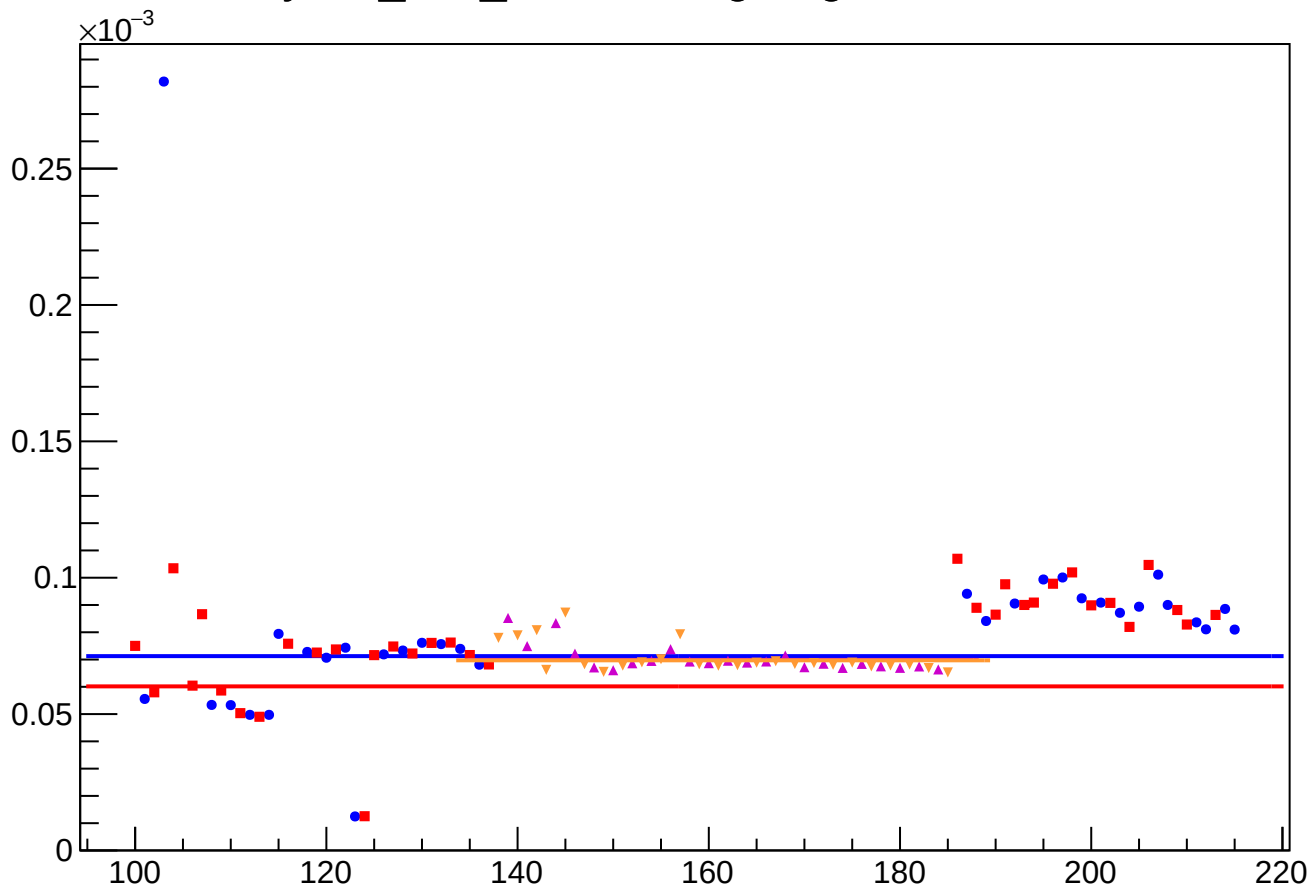
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 810635119324.8

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3644790.6/31

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7103950.4/33

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

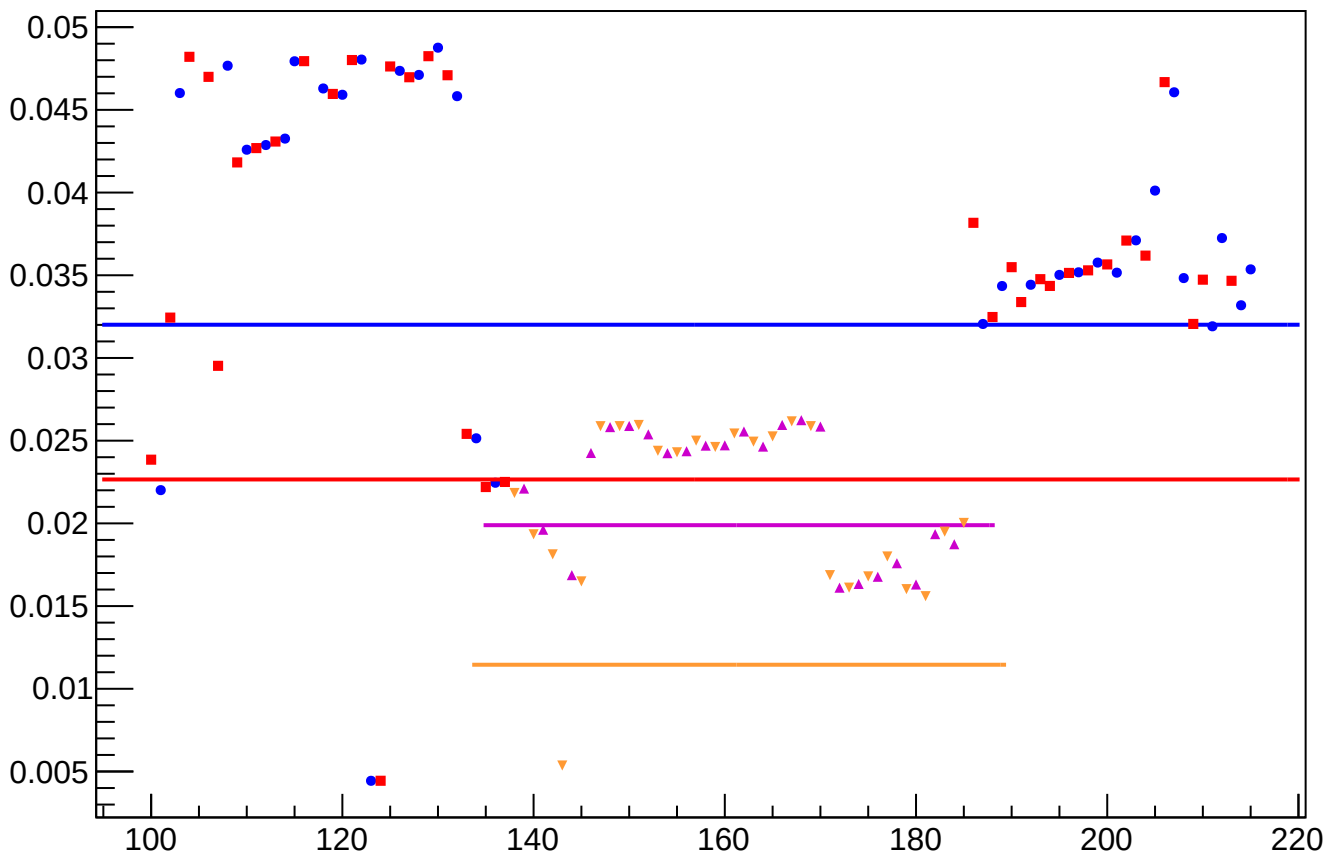
Right: 0.000+/-0.000 χ^2/NDF : 11148667.8/65

In: 0.000+/-0.000 χ^2/NDF :3780355.4/54

Out: 0.000+/-0.000 χ^2/NDF :7595334.9/58

All: 0.000+/-0.000 χ^2/NDF : 11581369.5/113

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21808159017.4/31

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.026+/-0.000

χ^2/NDF : 71664292889.8/65

Right Out: 0.023+/-0.000

χ^2/NDF : 44852299973.9/33

In: 0.023+/-0.000

χ^2/NDF : 36845879946.1/54

Out: 0.013+/-0.000

χ^2/NDF : 100045487976.9/58

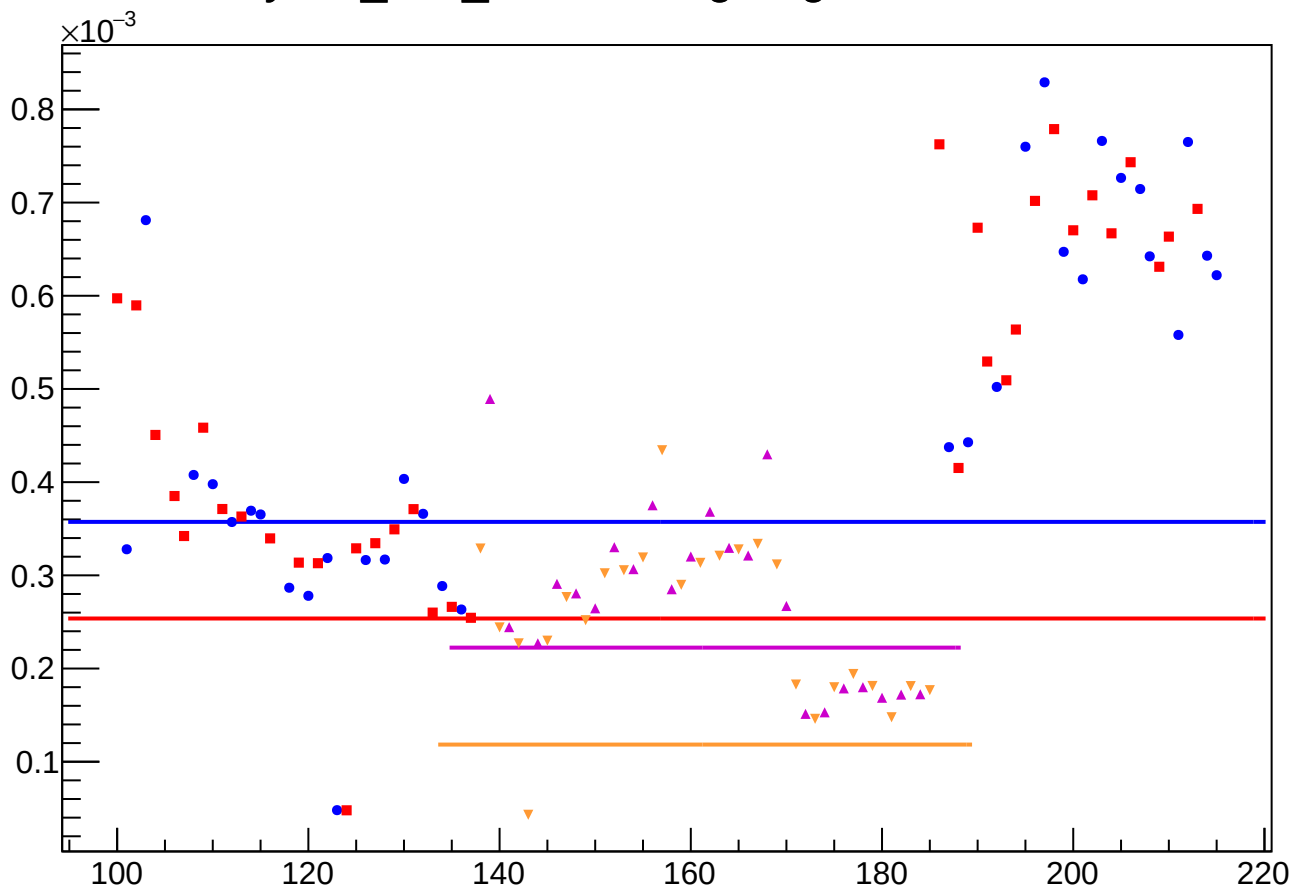
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 161332702459.9

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7833674.9/31

Left Out: 0.000+/-0.000 χ^2/NDF : 13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 13499785.4/33

Left In: 0.000+/-0.000 χ^2/NDF : 3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

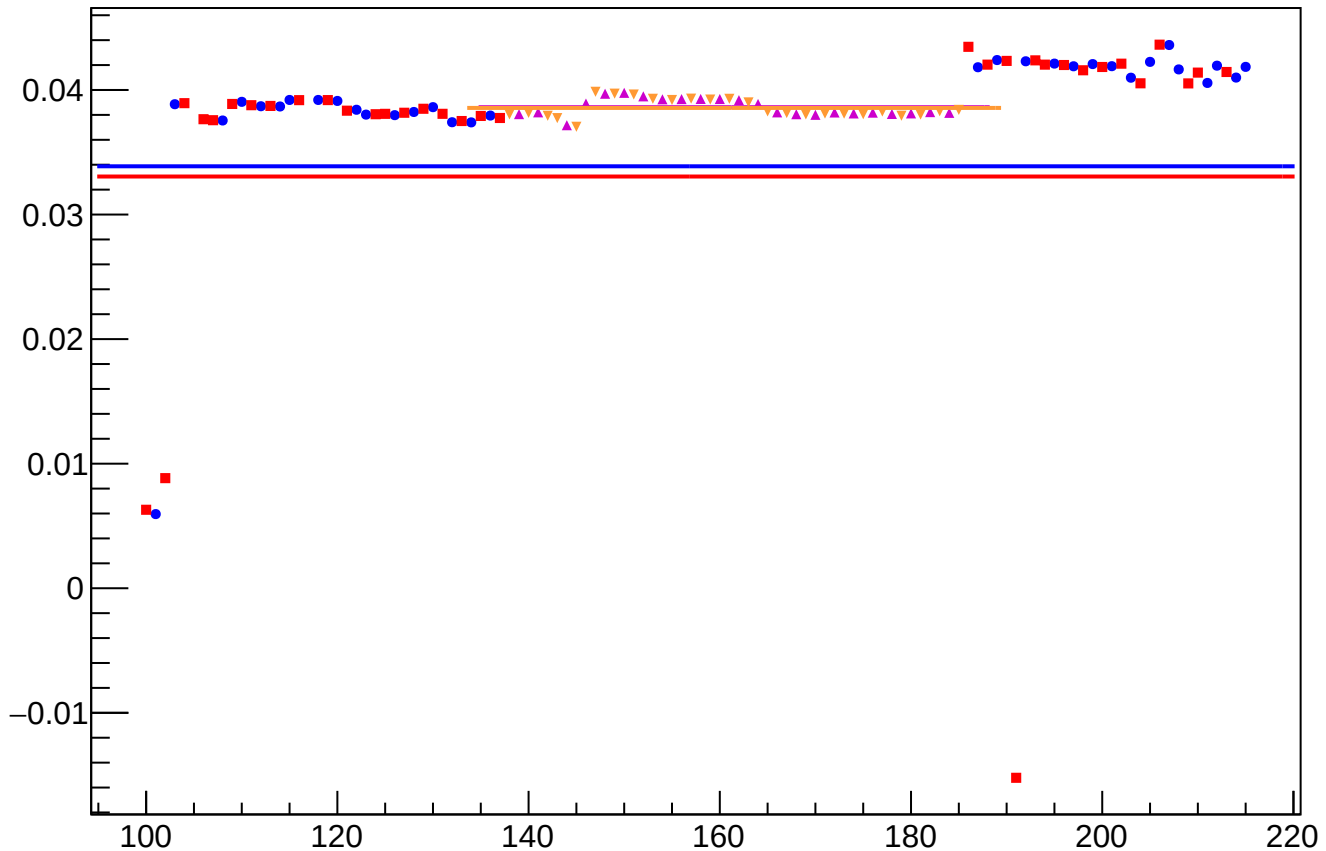
Right: 0.000+/-0.000 χ^2/NDF : 22563032.2/65

In: 0.000+/-0.000 χ^2/NDF : 13737799.4/54

Out: 0.000+/-0.000 χ^2/NDF : 31408746.7/58

All: 0.000+/-0.000 χ^2/NDF : 52192649.0/113

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 120712556964.6/31

Left Out: 0.039+/-0.000 χ^2/NDF : 539468437.3/24

Right Out: 0.033+/-0.000 χ^2/NDF : 184087655087.6/33

Left In: 0.039+/-0.000 χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000 χ^2/NDF : 1007039623.8/47

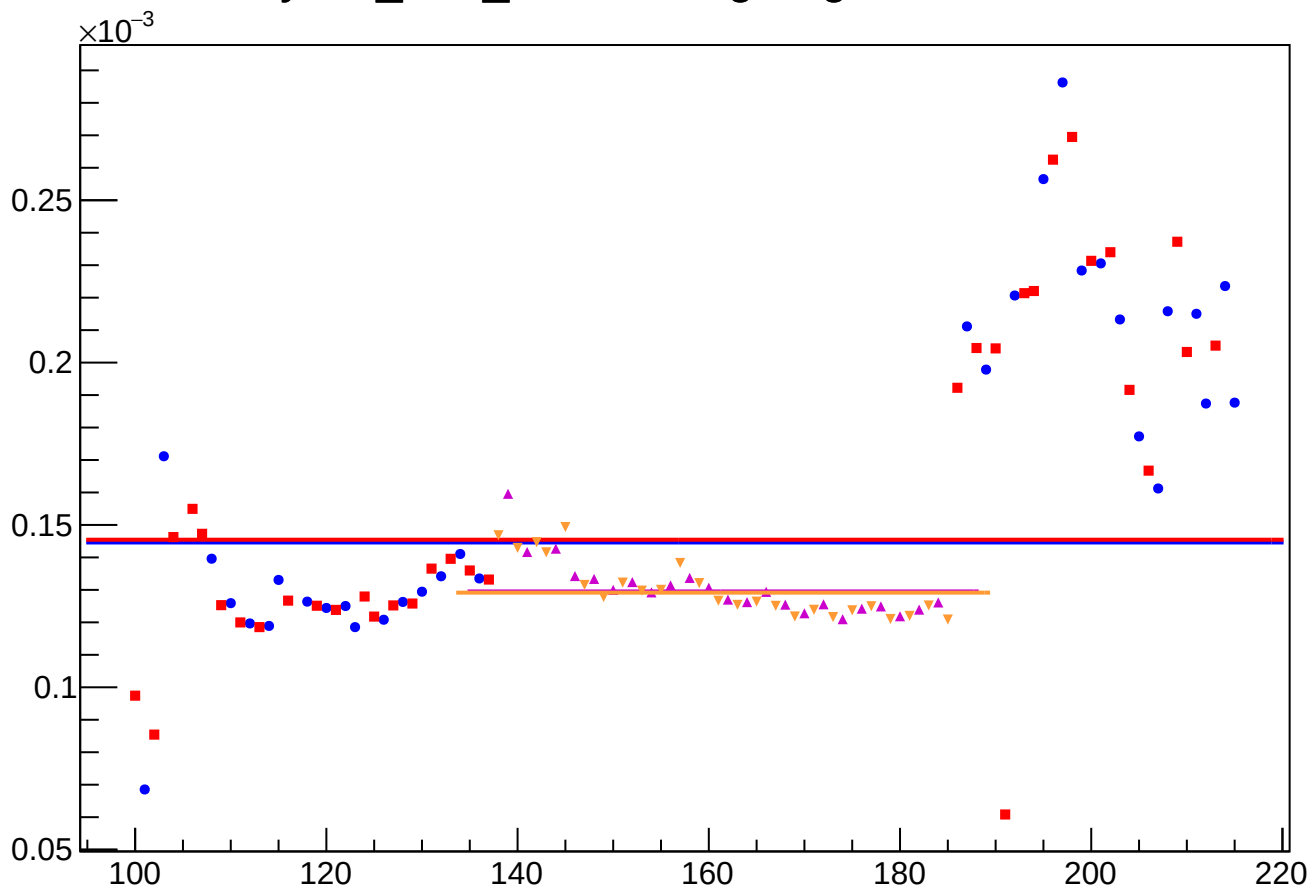
Right: 0.033+/-0.000 χ^2/NDF : 305036189170.3/65

In: 0.037+/-0.000 χ^2/NDF : 130579650378.8/54

Out: 0.036+/-0.000 χ^2/NDF : 197439635379.8/58

All: 0.037+/-0.000 χ^2/NDF : 328081452335.9

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3880438.6/31

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3507903.4/33

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

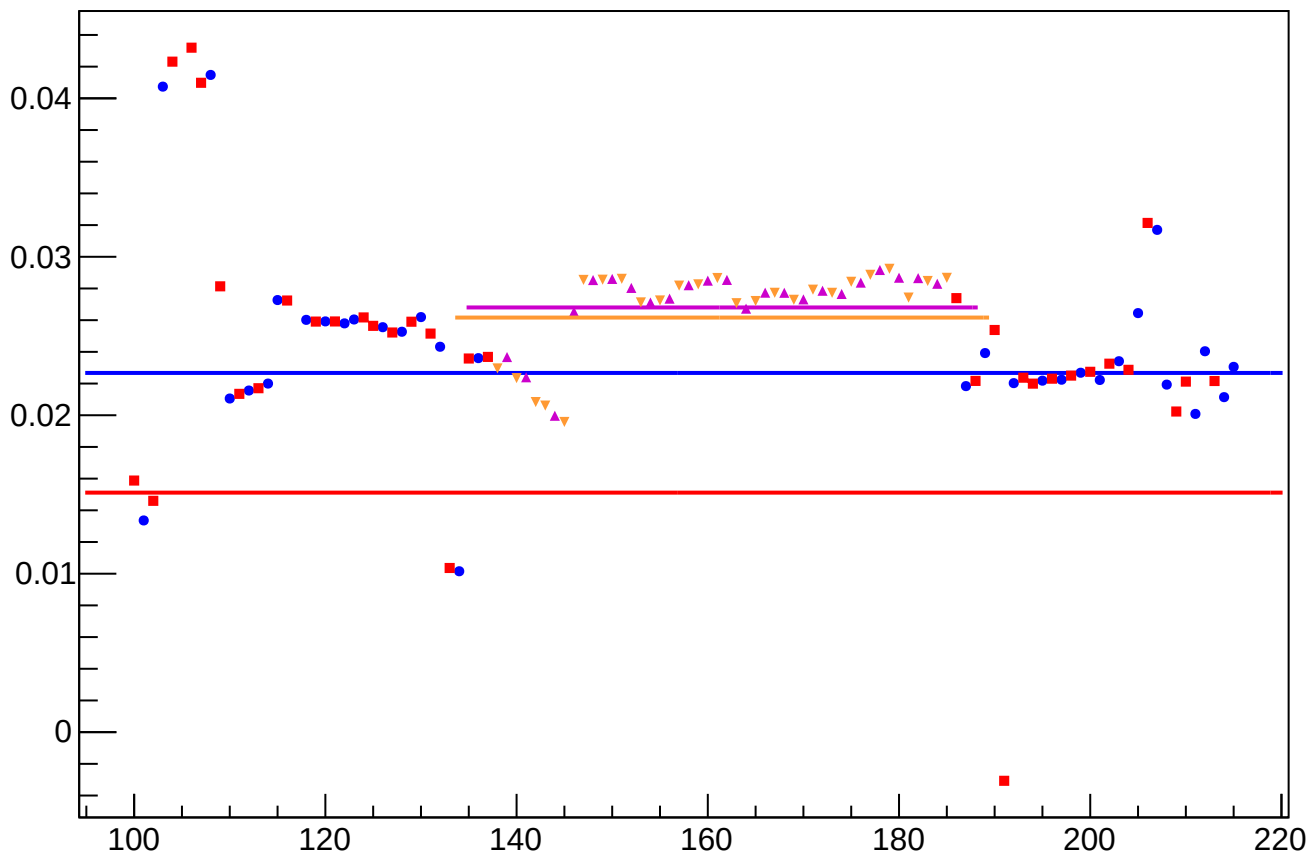
Right: 0.000+/-0.000 χ^2/NDF : 7388848.2/65

In: 0.000+/-0.000 χ^2/NDF :4184899.6/54

Out: 0.000+/-0.000 χ^2/NDF :3862766.1/58

All: 0.000+/-0.000 χ^2/NDF : 8047725.8/113

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4428133353.4/31

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31762198373.4/33

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

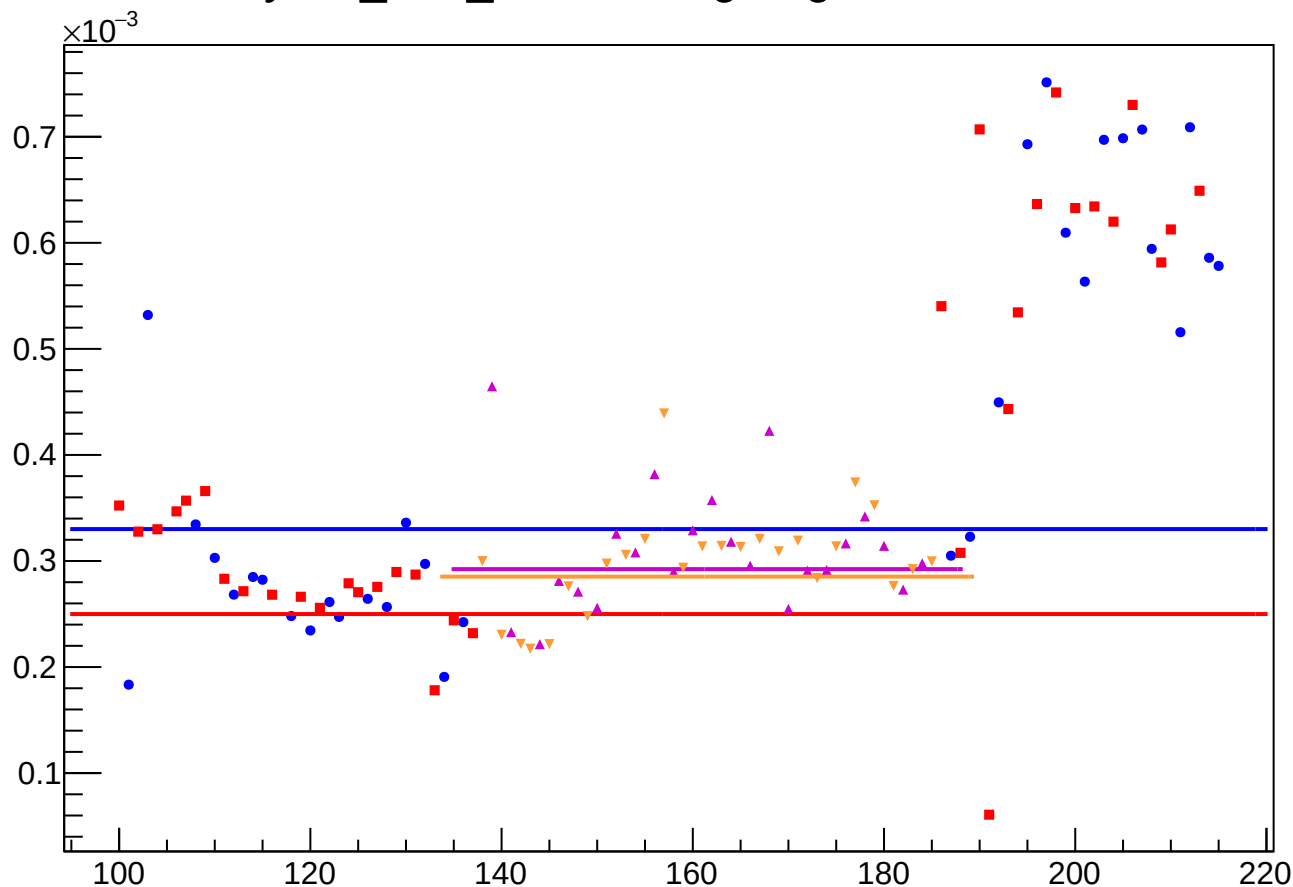
Right: 0.018+/-0.000 χ^2/NDF : 40220514312.4/65

In: 0.025+/-0.000 χ^2/NDF : 7006891052.4/54

Out: 0.021+/-0.000 χ^2/NDF : 45078266873.9/58

All: 0.023+/-0.000 χ^2/NDF : 54854638506.3/1

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5884314.8/31

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10357974.3/33

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

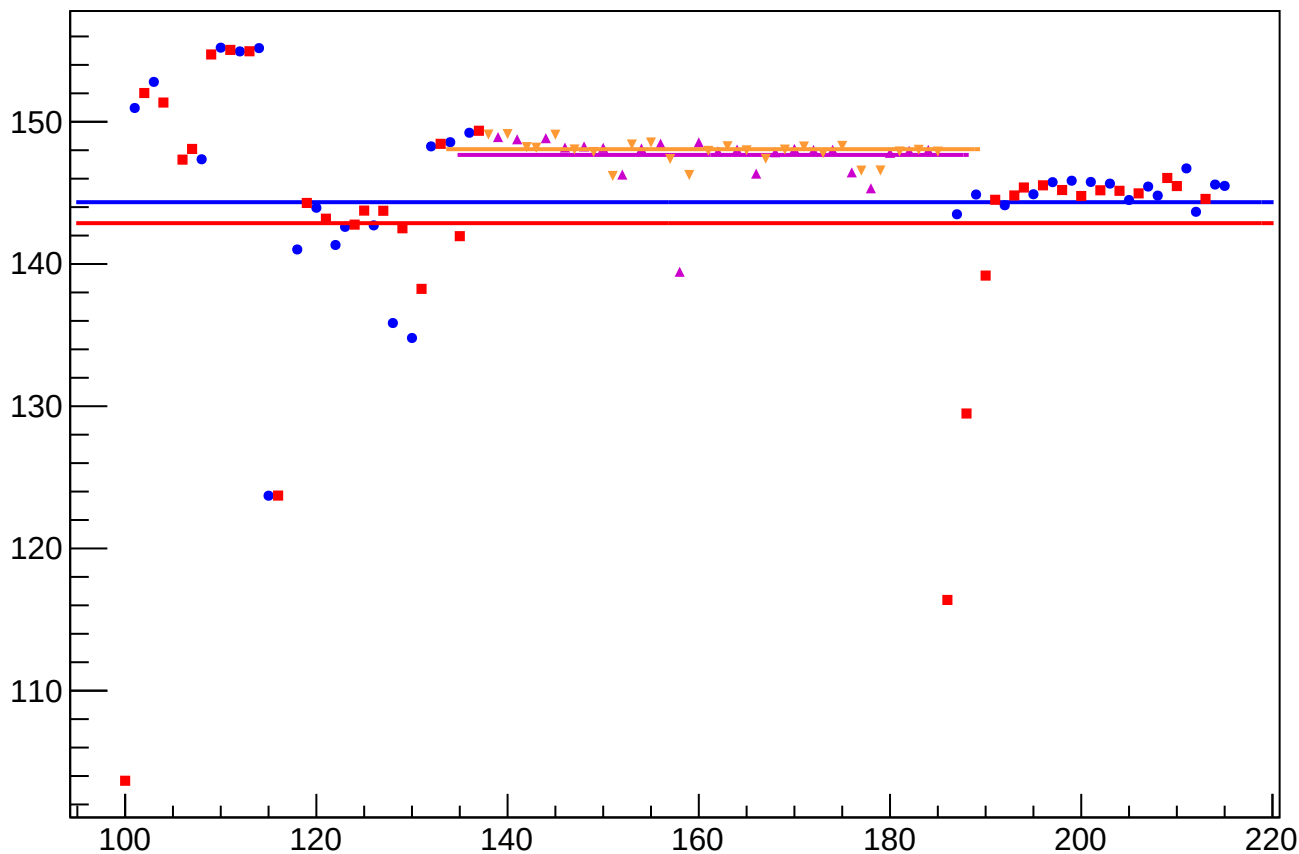
Right: 0.000+/-0.000 χ^2/NDF : 17149029.0/65

In: 0.000+/-0.000 χ^2/NDF :6991232.9/54

Out: 0.000+/-0.000 χ^2/NDF :11401235.4/58

All: 0.000+/-0.000 χ^2/NDF : 18880669.7/113

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.347 $\pm$ 0.000 χ^2 /NDF: 3509157460.7/31

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.872 $\pm$ 0.000 χ^2 /NDF: 7450594169.7/33

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

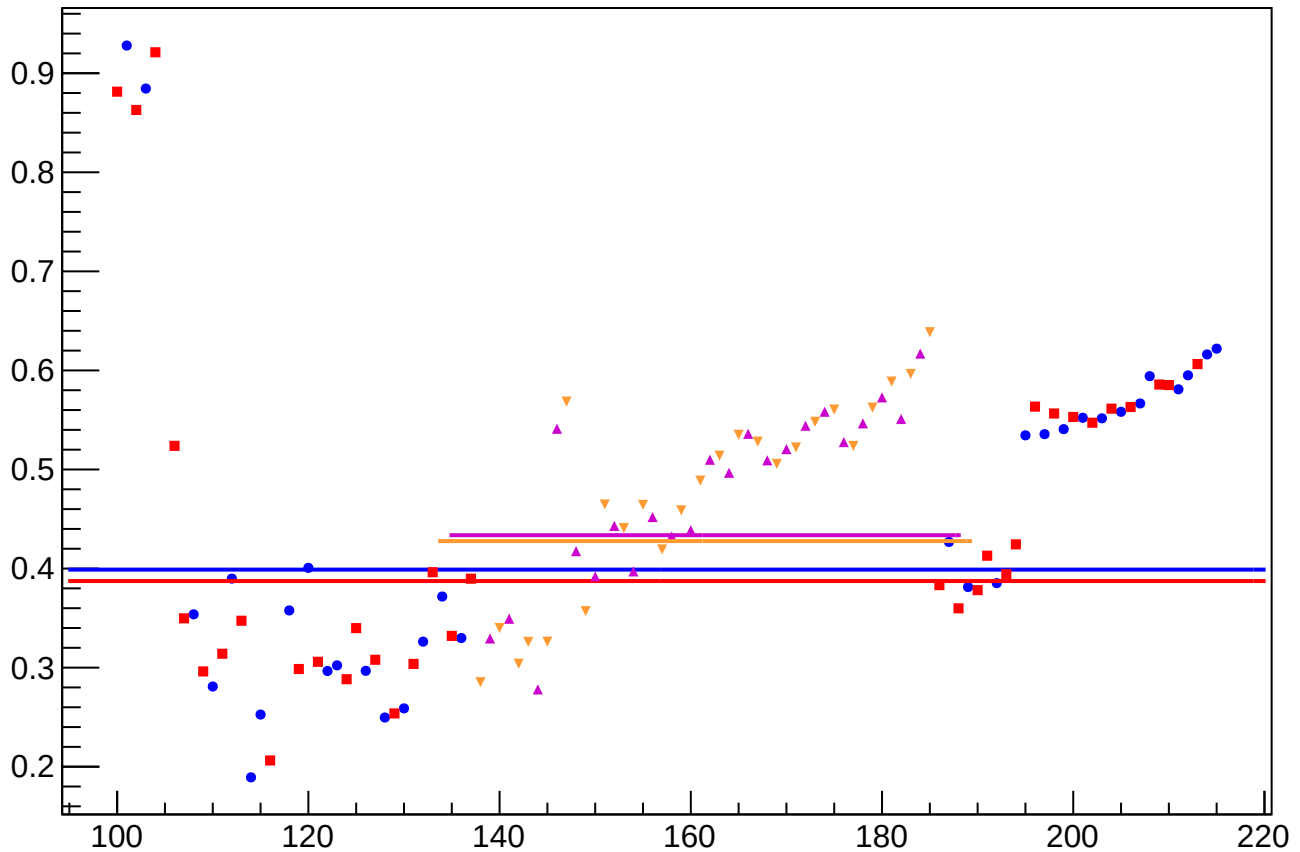
Right: 143.584 $\pm$ 0.000 χ^2 /NDF: 11063671409.7/65

In: 145.954 $\pm$ 0.000 χ^2 /NDF: 4347582800.6/54

Out: 145.389 $\pm$ 0.000 χ^2 /NDF: 8811617771.1/58

All: 145.662 $\pm$ 0.000 χ^2 /NDF: 13188752965.0/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 3610431.8/31

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.387 $\pm$ 0.000 χ^2 /NDF: 3083766.7/33

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

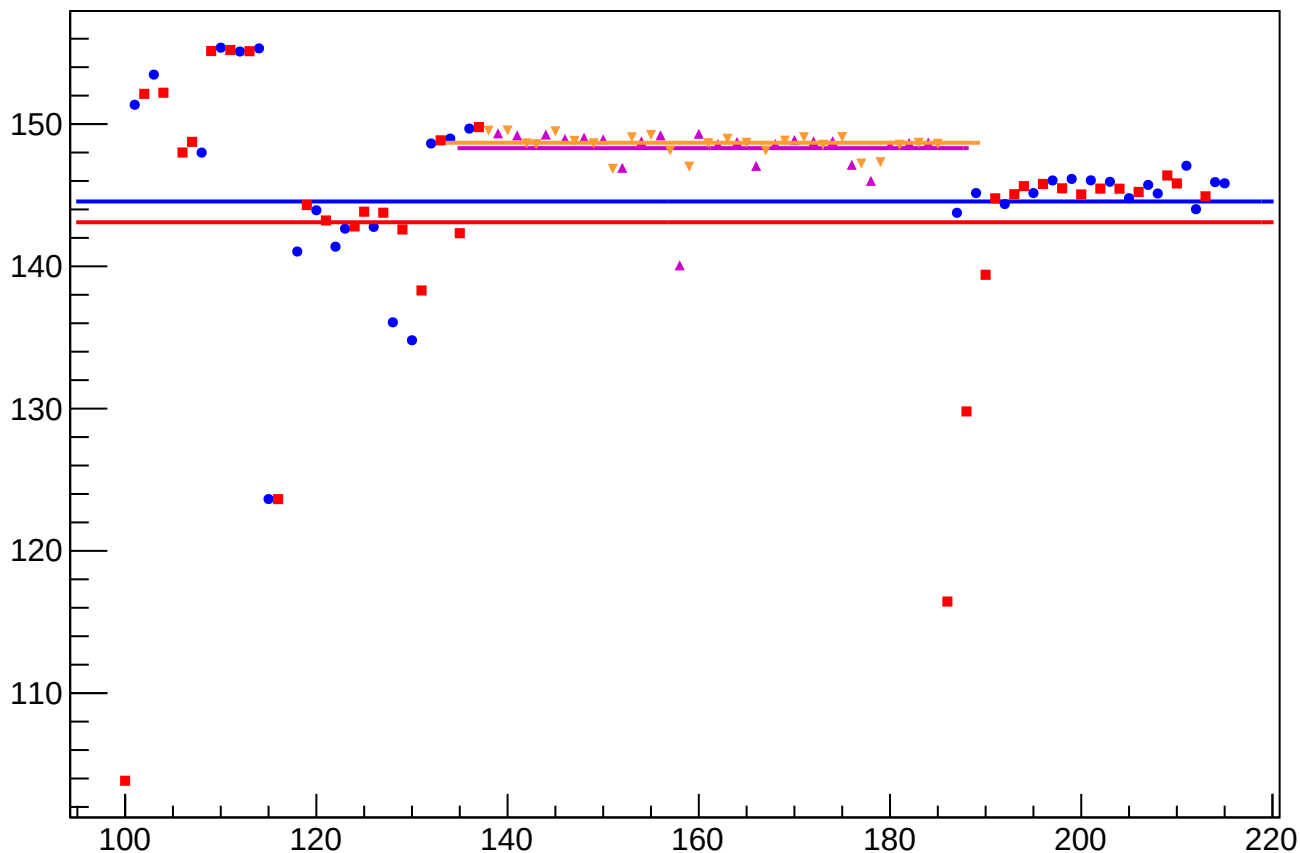
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 6706910.6/65

In: 0.416 $\pm$ 0.000 χ^2 /NDF:5214467.6/54

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:5136304.0/58

All: 0.411 $\pm$ 0.000 χ^2 /NDF: 10365148.4/113

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.560 $\pm$ 0.000 χ^2 /NDF: 3560725520.9/31

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.099 $\pm$ 0.000 χ^2 /NDF: 7402242819.5/33

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

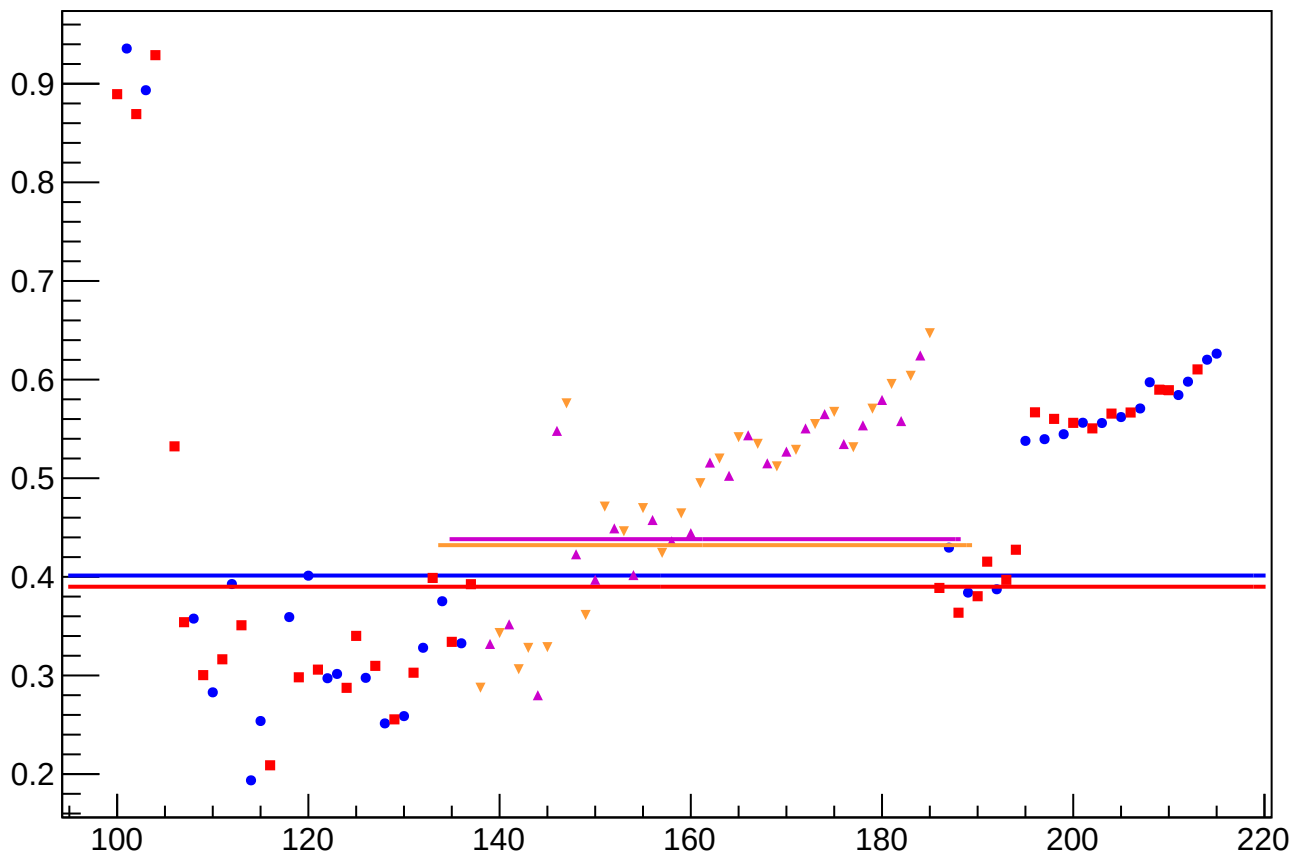
Right: 143.804 $\pm$ 0.000 χ^2 /NDF: 11063621253.2/65

In: 146.363 $\pm$ 0.000 χ^2 /NDF: 4510865417.5/54

Out: 145.792 $\pm$ 0.000 χ^2 /NDF: 8923550743.9/58

All: 146.067 $\pm$ 0.000 χ^2 /NDF: 13464123410.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.401 $\pm$ 0.000 χ^2/NDF : 3618603.7/31

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF :1929031.5/24

Right Out: 0.390 $\pm$ 0.000 χ^2/NDF : 3087559.4/33

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

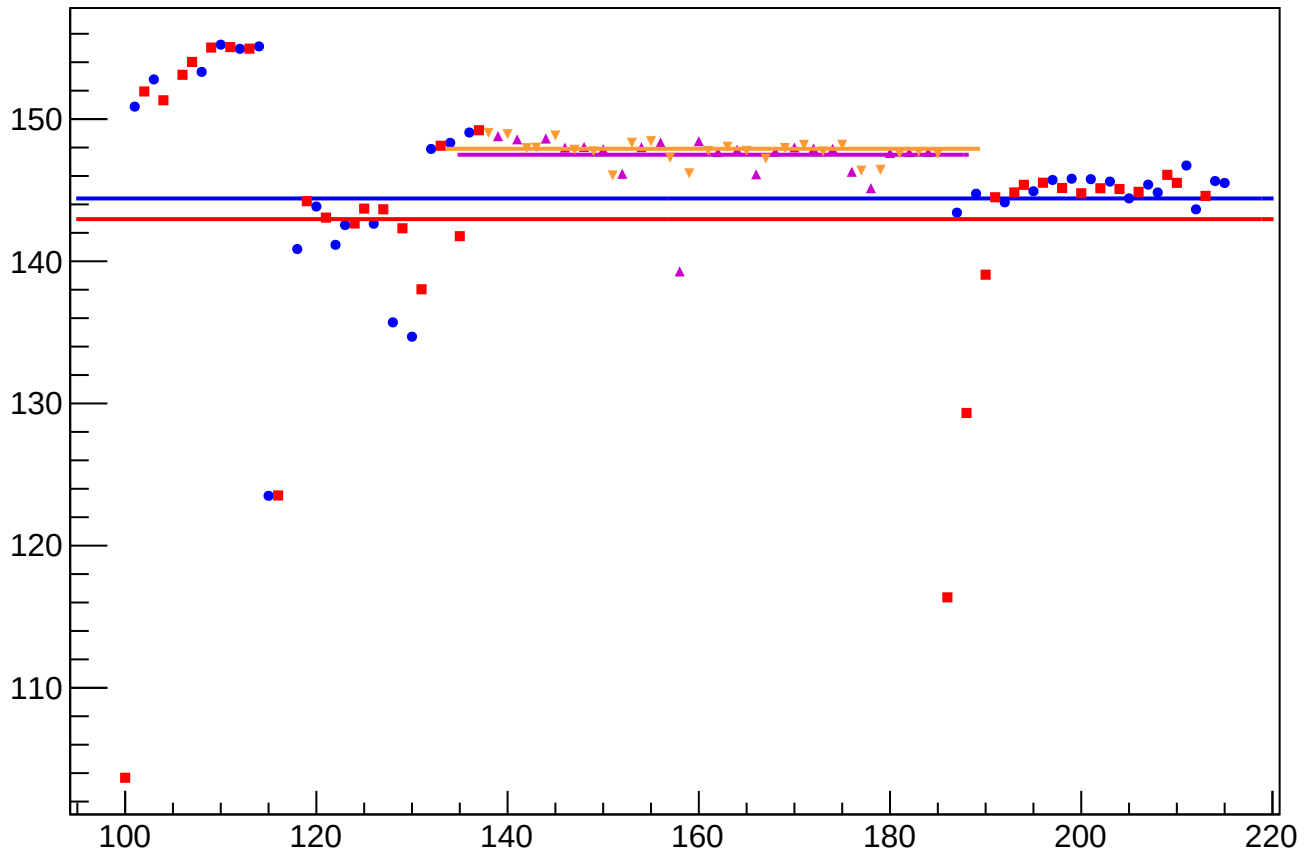
Right: 0.395 $\pm$ 0.000 χ^2/NDF : 6718279.2/65

In: 0.419 $\pm$ 0.000 χ^2/NDF :5259959.2/54

Out: 0.410 $\pm$ 0.000 χ^2/NDF :5183712.9/58

All: 0.415 $\pm$ 0.000 χ^2/NDF : 10457682.0/113

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.418 $\pm$ 0.000 χ^2/NDF : 3714422350.6/31

Left Out: 147.911 $\pm$ 0.000 χ^2/NDF : 64412407.9/24

Right Out: 142.964 $\pm$ 0.000 χ^2/NDF : 7824921810.3/33

Left In: 147.493 $\pm$ 0.000 χ^2/NDF : 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2/NDF : 416149781.4/47

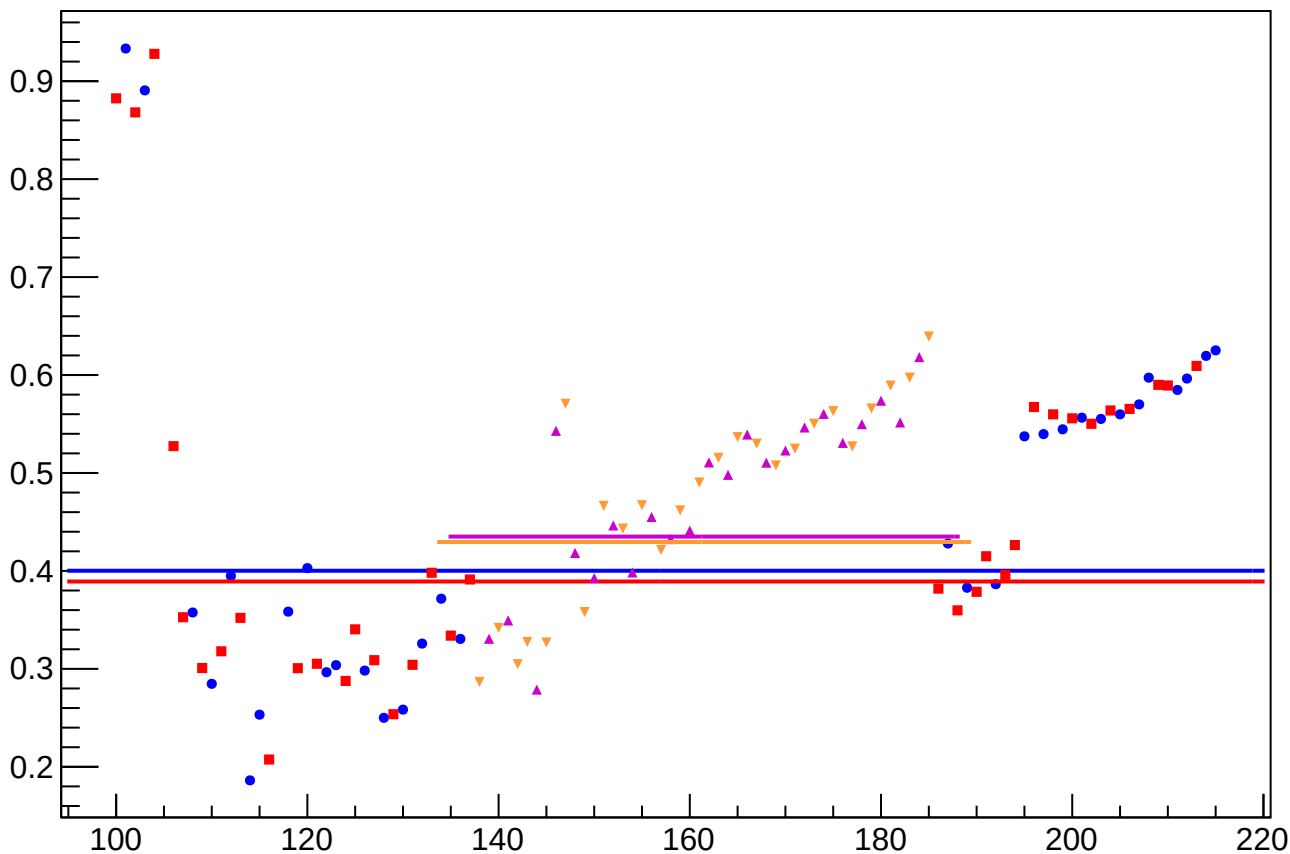
Right: 143.667 $\pm$ 0.000 χ^2/NDF : 11639449531.4/65

In: 145.906 $\pm$ 0.000 χ^2/NDF : 4477586971.2/54

Out: 145.360 $\pm$ 0.000 χ^2/NDF : 9050702214.5/58

All: 145.624 $\pm$ 0.000 χ^2/NDF : 13555706940.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.400 $\pm$ 0.000 χ^2 /NDF: 3649308.5/31

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 3090686.0/33

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

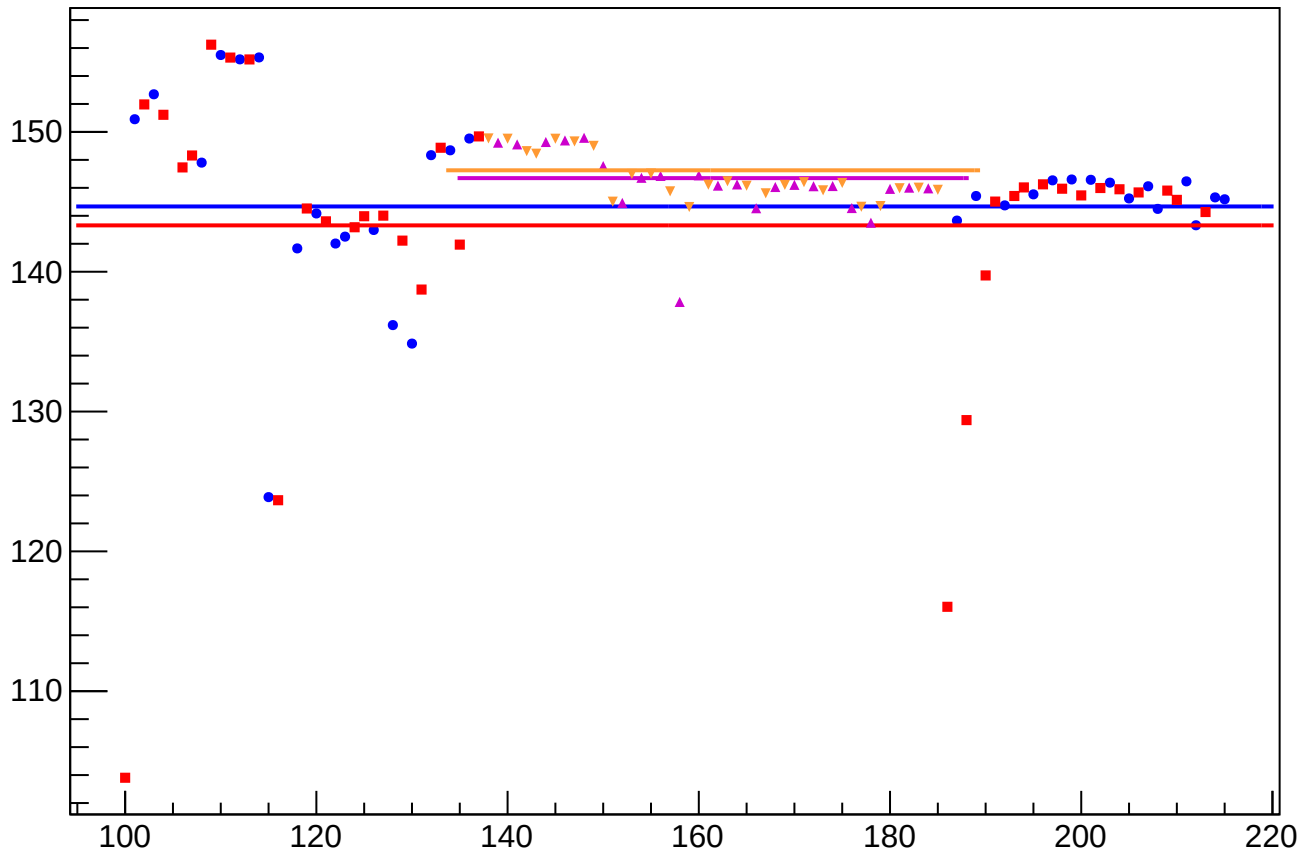
Right: 0.395 $\pm$ 0.000 χ^2 /NDF: 6751405.3/65

In: 0.417 $\pm$ 0.000 χ^2 /NDF:5259852.5/54

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:5140674.5/58

All: 0.413 $\pm$ 0.000 χ^2 /NDF: 10413261.0/113

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.669 $\pm$ 0.000 χ^2 /NDF: 3233667722.6/31

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.315 $\pm$ 0.000 χ^2 /NDF: 7143560390.2/33

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

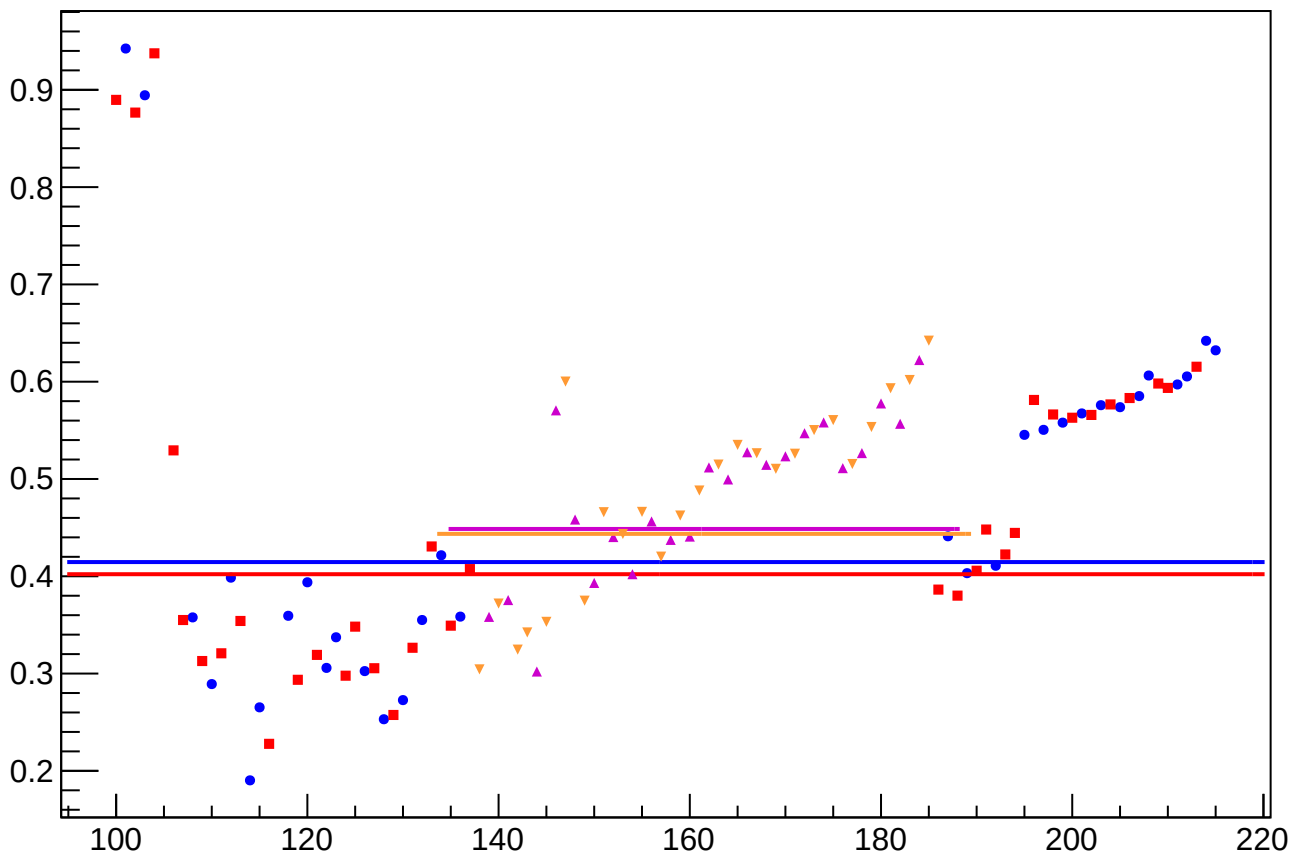
Right: 143.968 $\pm$ 0.000 χ^2 /NDF: 10458318849.2/65

In: 145.659 $\pm$ 0.000 χ^2 /NDF: 3962948092.2/54

Out: 145.233 $\pm$ 0.000 χ^2 /NDF: 8099286967.3/58

All: 145.439 $\pm$ 0.000 χ^2 /NDF: 12077888879.3/114

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.415+/-0.000 χ^2/NDF : 3527324.0/31

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.402+/-0.000 χ^2/NDF : 2986554.9/33

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

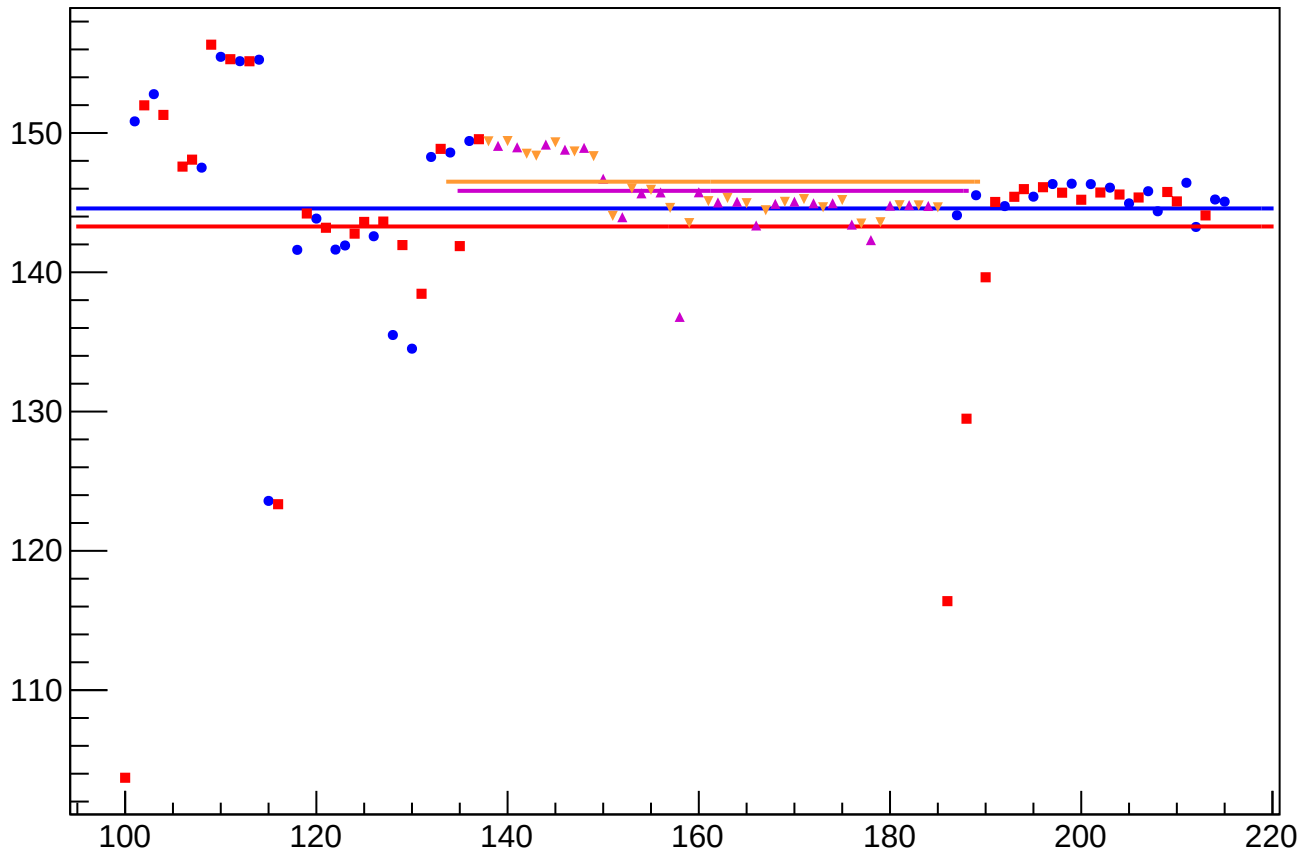
Right: 0.408+/-0.000 χ^2/NDF : 6527664.2/65

In: 0.431+/-0.000 χ^2/NDF :4756635.7/54

Out: 0.422+/-0.000 χ^2/NDF :4623639.8/58

All: 0.427+/-0.000 χ^2/NDF : 9394026.9/113

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.583 ± 0.000 $\chi^2/\text{NDF}: 3343499335.4/31$

Left Out: 146.505 ± 0.000 $\chi^2/\text{NDF}: 401688176.3/24$

Right Out: 143.288 ± 0.000 $\chi^2/\text{NDF}: 7095918472.1/33$

Left In: 145.847 ± 0.000 $\chi^2/\text{NDF}: 694764545.6/22$

Left: 146.187 ± 0.000 $\chi^2/\text{NDF}: 1114638549.0/47$

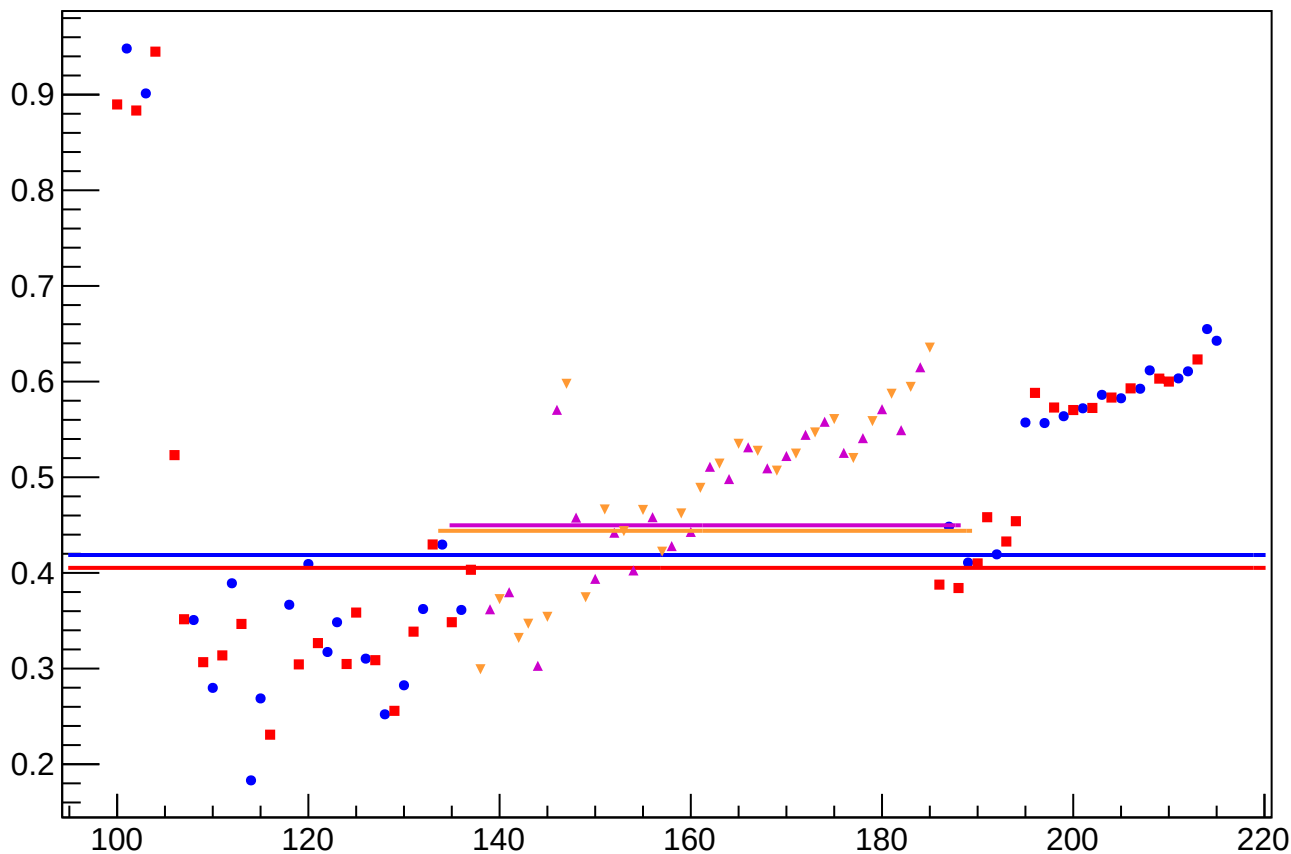
Right: 143.911 ± 0.000 $\chi^2/\text{NDF}: 10512042213.2/65$

In: 145.206 ± 0.000 $\chi^2/\text{NDF}: 4103951444.8/54$

Out: 144.868 ± 0.000 $\chi^2/\text{NDF}: 7955251175.3/58$

All: 145.031 ± 0.000 $\chi^2/\text{NDF}: 12068973090.0$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.419+/-0.000 χ^2/NDF : 3584431.0/31

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.405+/-0.000 χ^2/NDF : 3022536.2/33

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

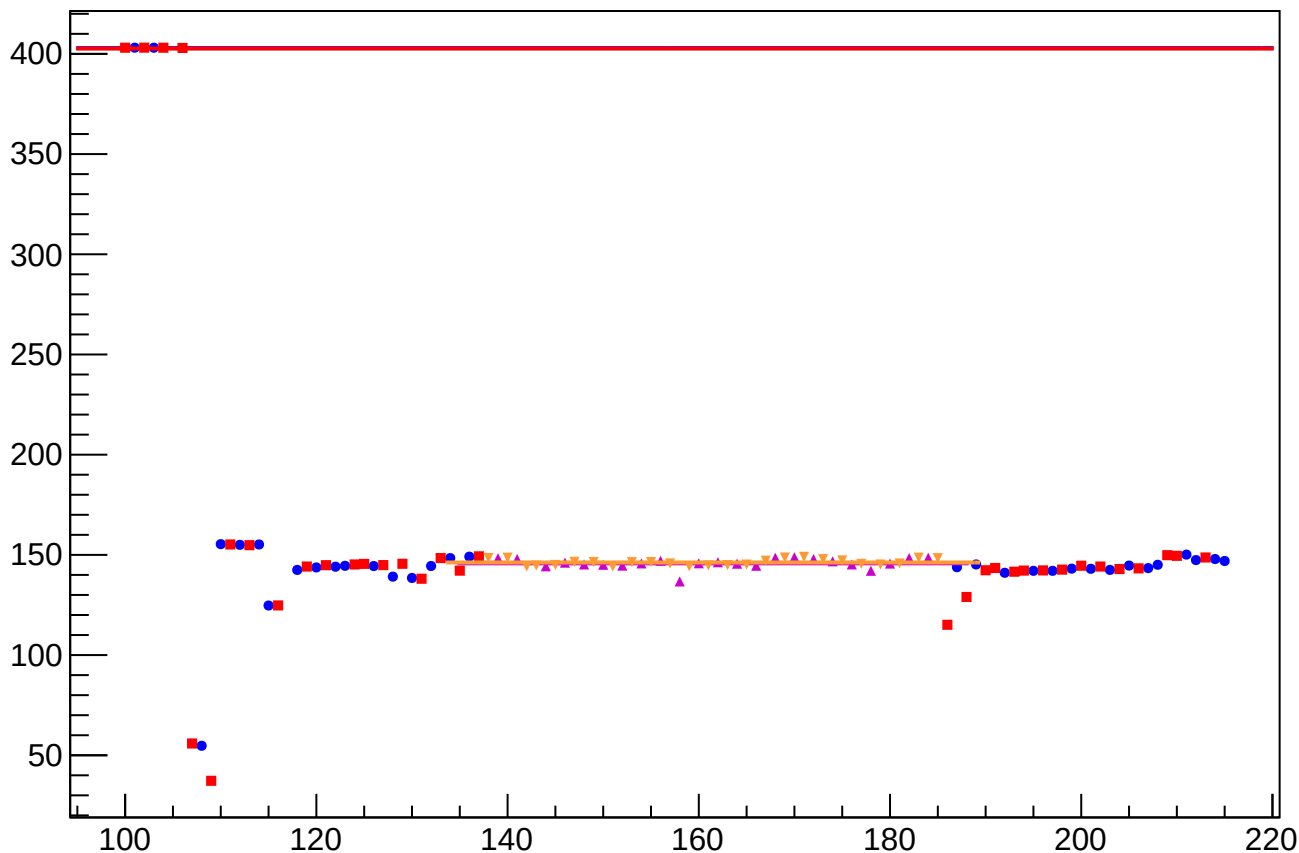
Right: 0.412+/-0.000 χ^2/NDF : 6622650.3/65

In: 0.434+/-0.000 χ^2/NDF :4769157.0/54

Out: 0.424+/-0.000 χ^2/NDF :4618587.7/58

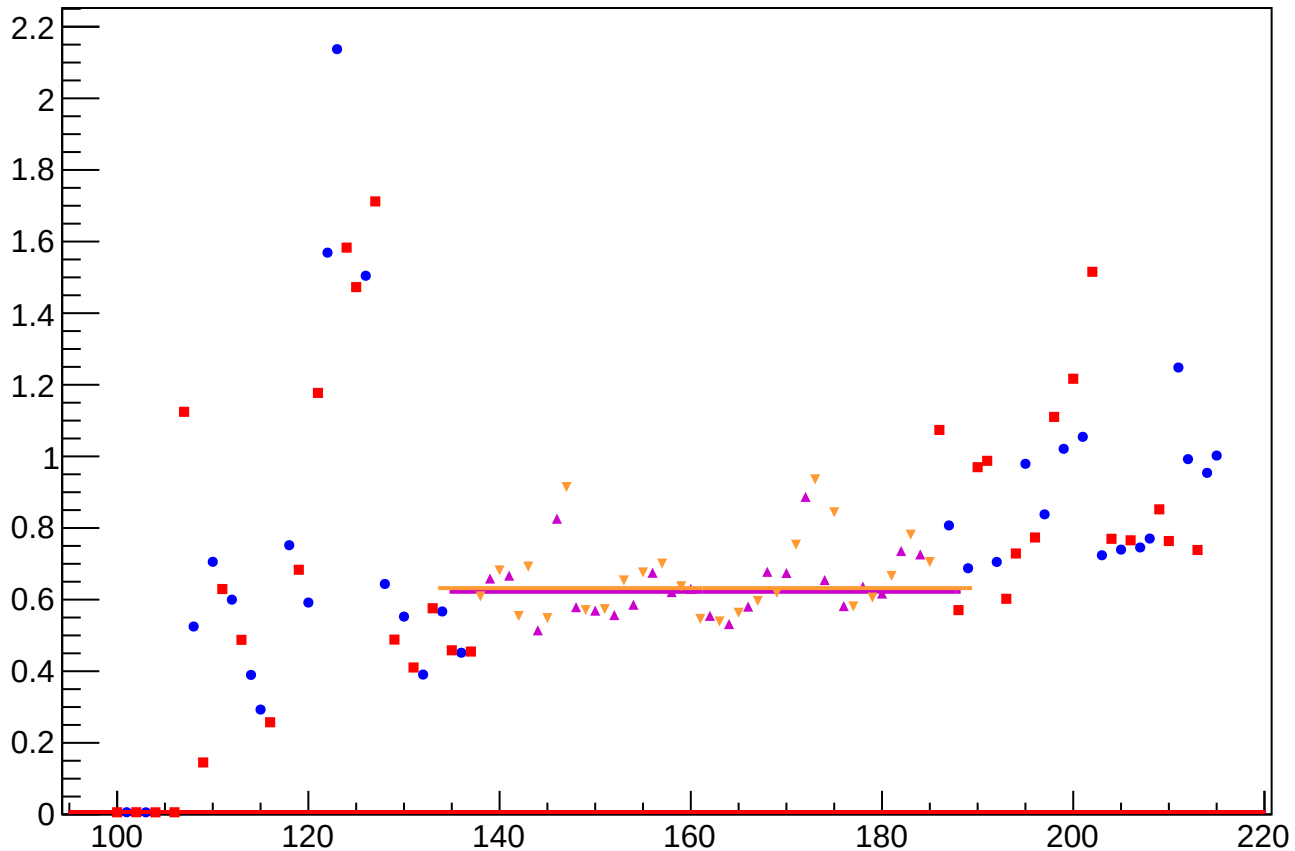
All: 0.429+/-0.000 χ^2/NDF : 9403939.3/113

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.860+/-0.000	χ^2/NDF : 1881468678403.3/31	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.772+/-0.000	χ^2/NDF : 5946135523942.8
Right Out: 402.694+/-0.000	χ^2/NDF : 4064213651422.7/33	In: 402.567+/-0.000	χ^2/NDF : 4229719640713.8/54
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.433+/-0.000	χ^2/NDF : 6431671059478.9/54
		All: 402.496+/-0.000	χ^2/NDF : 106616883882.7/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 25814600.6/31

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 26266291.7/33

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

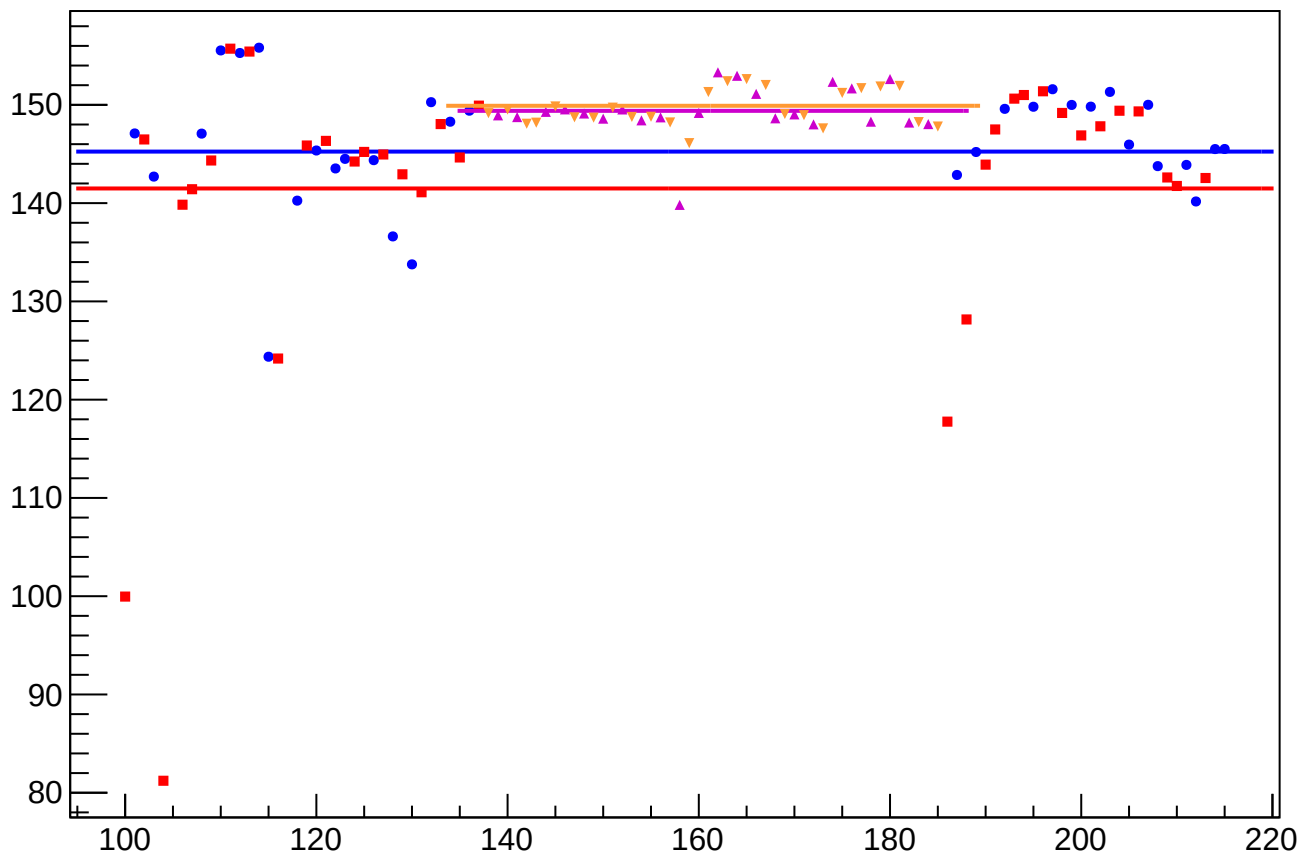
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 52080907.3/65

In: 0.007 $\pm$ 0.000 χ^2 /NDF:53117841.1/54

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:55037485.7/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 108155564.8/113

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.244+/-0.000 χ^2/NDF : 1360347977.0/31

Left Out: 149.906+/-0.000 χ^2/NDF : 163261802.4/24

Right Out: 141.491+/-0.000 χ^2/NDF : 3251497861.1/33

Left In: 149.391+/-0.000 χ^2/NDF : 437129920.4/22

Left: 149.657+/-0.000 χ^2/NDF : 606930259.3/47

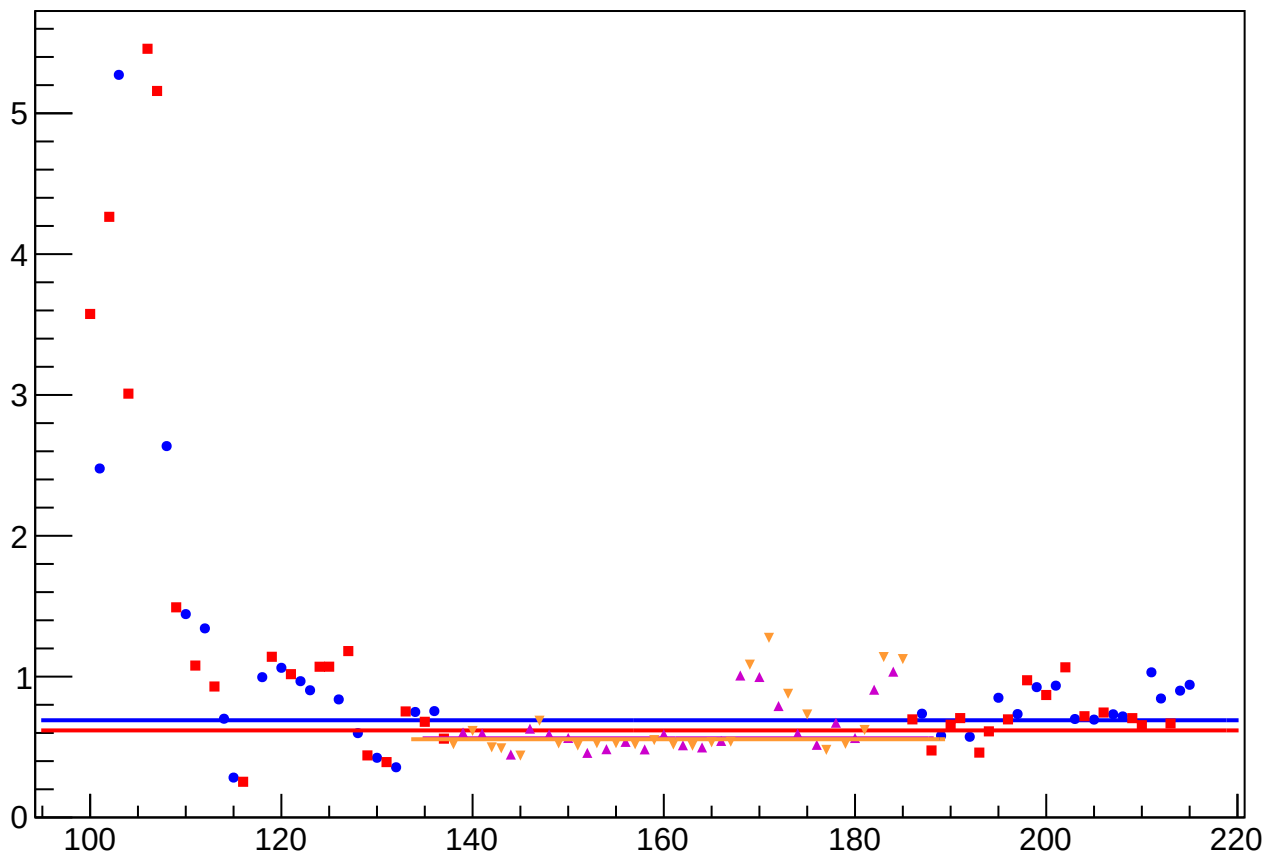
Right: 143.183+/-0.000 χ^2/NDF : 4807982617.9/65

In: 147.950+/-0.000 χ^2/NDF : 2081870297.8/54

Out: 146.729+/-0.000 χ^2/NDF : 4776291033.6/58

All: 147.304+/-0.000 χ^2/NDF : 6915636031.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.690 $\pm$ 0.000 χ^2 /NDF: 4343199.5/31

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.618 $\pm$ 0.000 χ^2 /NDF: 5583135.3/33

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

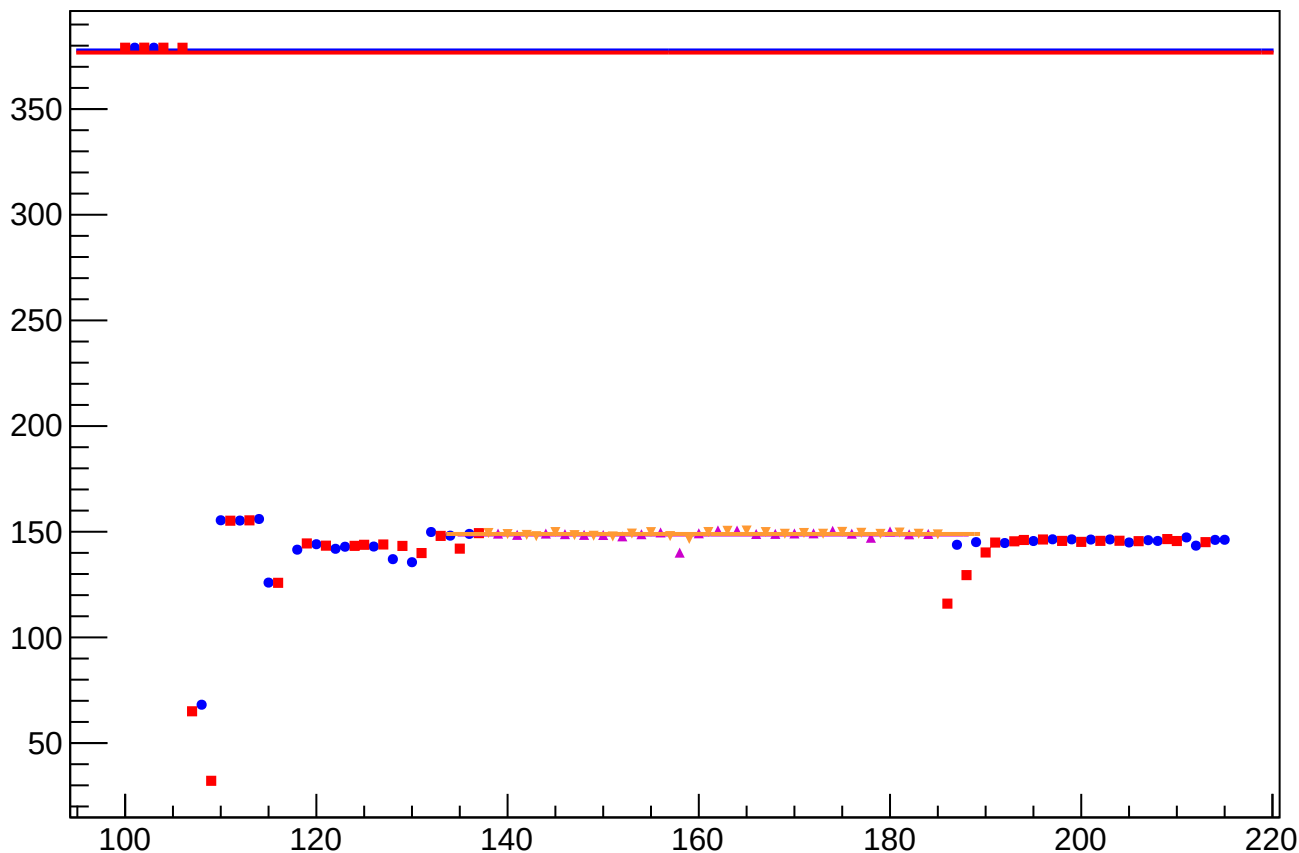
Right: 0.651 $\pm$ 0.000 χ^2 /NDF: 10071155.7/65

In: 0.607 $\pm$ 0.000 χ^2 /NDF:6197296.5/54

Out: 0.579 $\pm$ 0.000 χ^2 /NDF:7507577.4/58

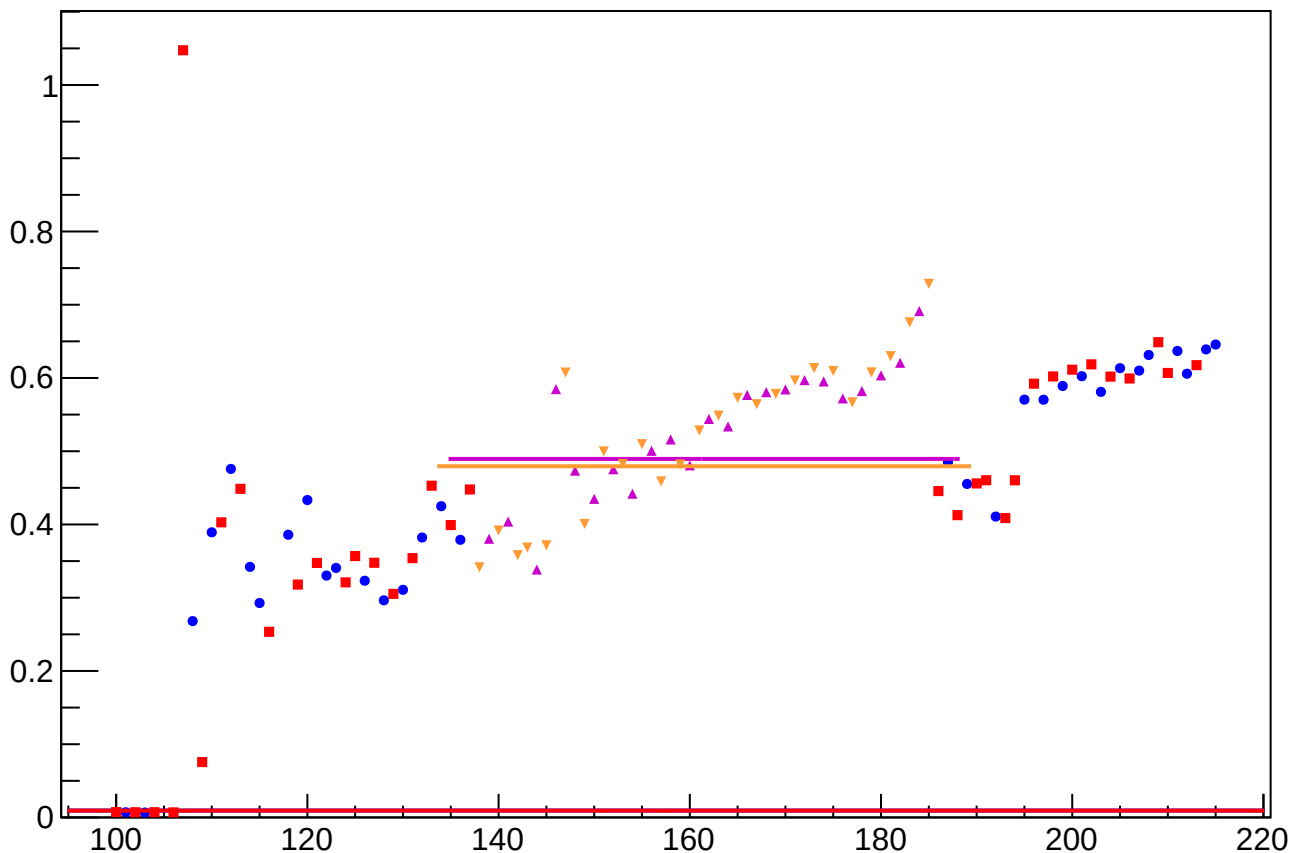
All: 0.592 $\pm$ 0.000 χ^2 /NDF: 13763336.0/113

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.732 $\pm$ 0.000	χ^2 /NDF: 4213780838756.7/31	Left: 148.820 $\pm$ 0.000	χ^2 /NDF: 320306424.2/47
Left Out: 148.946 $\pm$ 0.000	χ^2 /NDF: 63974844.7/24	Right: 377.203 $\pm$ 0.000	χ^2 /NDF: 14469376623019.9
Right Out: 376.740 $\pm$ 0.000	χ^2 /NDF: 10248591637419.9/33	In: 376.556 $\pm$ 0.000	χ^2 /NDF: 7810658310371.6/54
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.624 $\pm$ 0.000	χ^2 /NDF: 14114109767607.0
		All: 376.060 $\pm$ 0.000	χ^2 /NDF: 219309642193.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 29760637.4/31

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 28673144.5/33

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

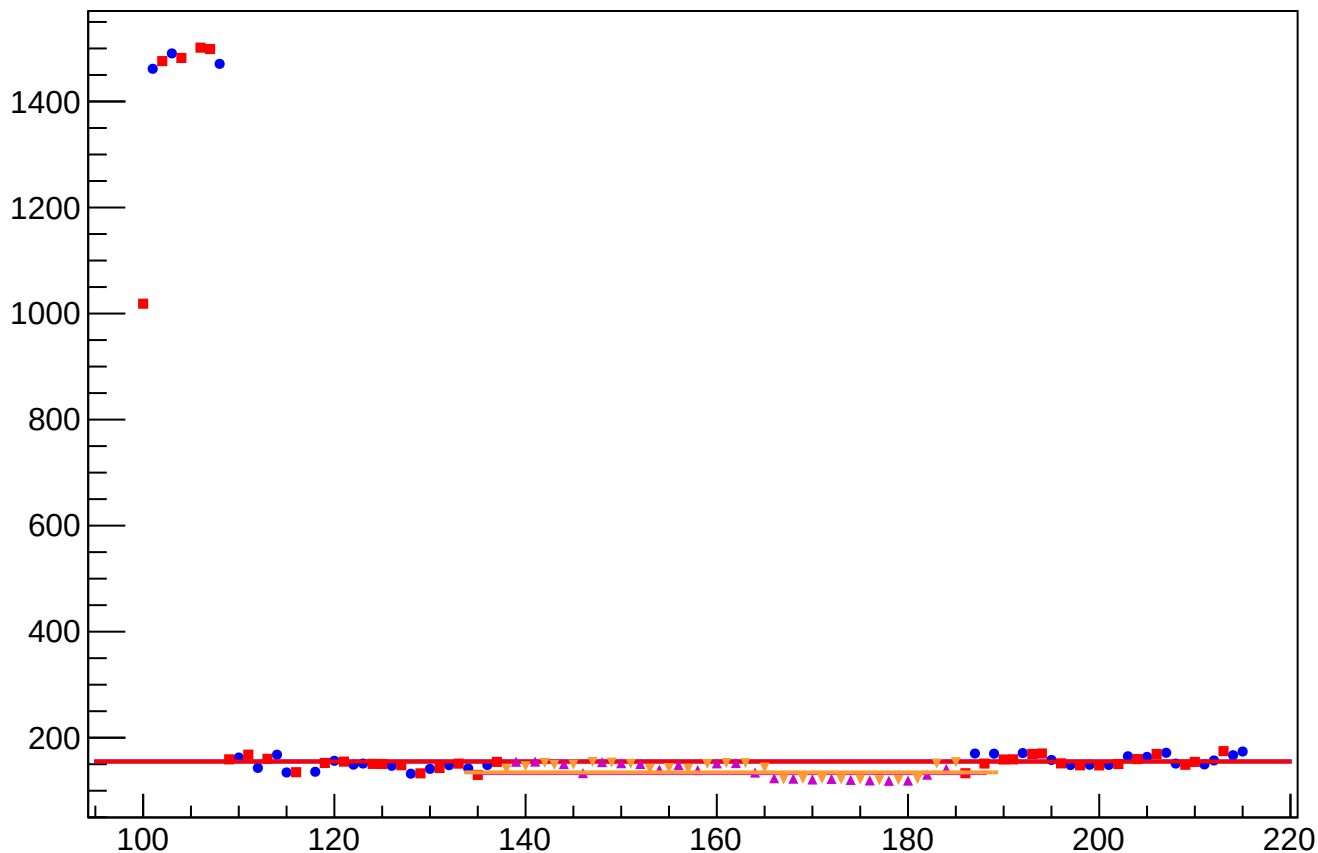
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 58433936.0/65

In: 0.012 $\pm$ 0.000 χ^2 /NDF:62451129.7/54

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:63124618.4/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 125576777.5/113

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.202 $\pm$ 0.000 χ^2 /NDF: 26161356800.4/31

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 155.079 $\pm$ 0.000 χ^2 /NDF: 35198863848.3/33

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

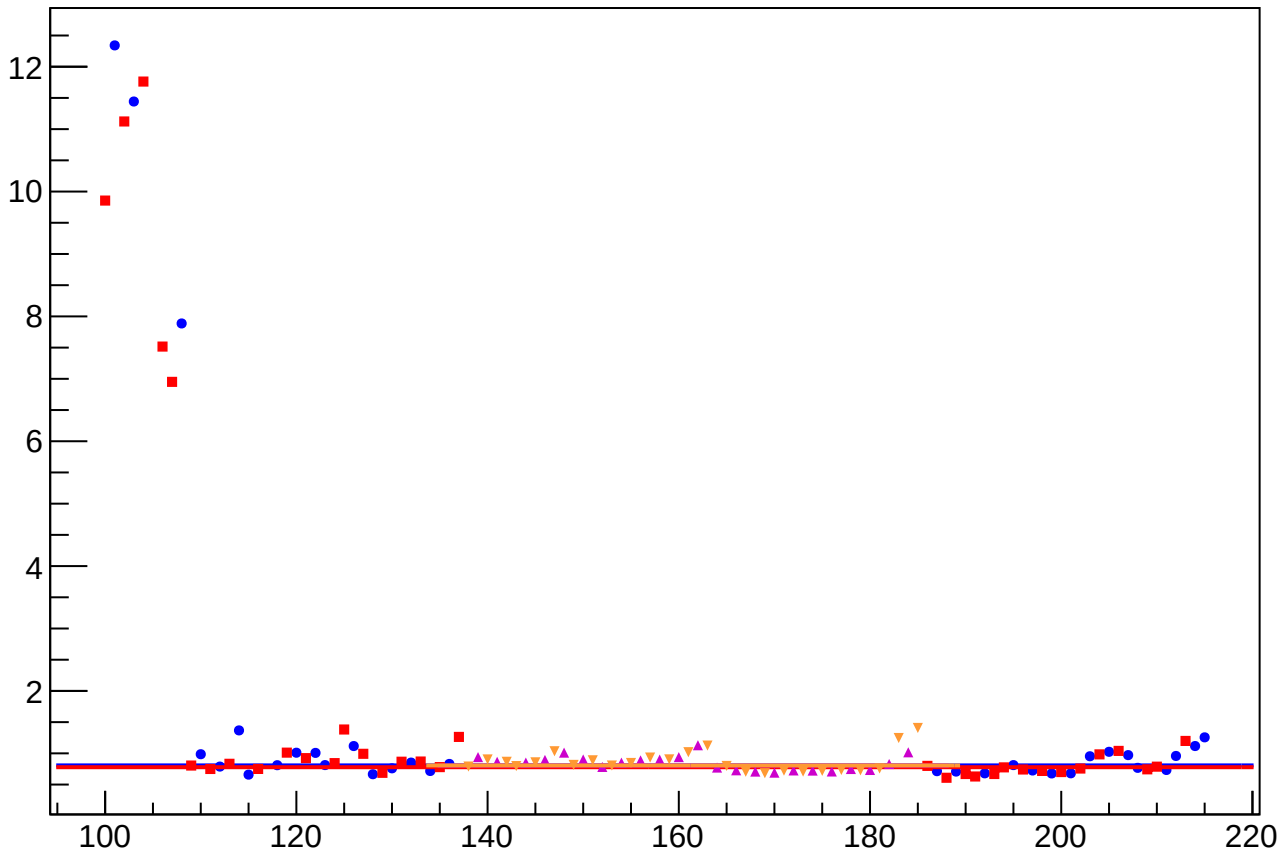
Right: 155.139 $\pm$ 0.000 χ^2 /NDF: 61360373956.8/65

In: 143.379 $\pm$ 0.000 χ^2 /NDF: 35573572193.8/54

Out: 144.184 $\pm$ 0.000 χ^2 /NDF: 44256552255.6/58

All: 143.792 $\pm$ 0.000 χ^2 /NDF: 79844221589.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.807+/-0.000 χ^2/NDF : 3305869.1/31

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.778+/-0.000 χ^2/NDF : 3447635.1/33

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

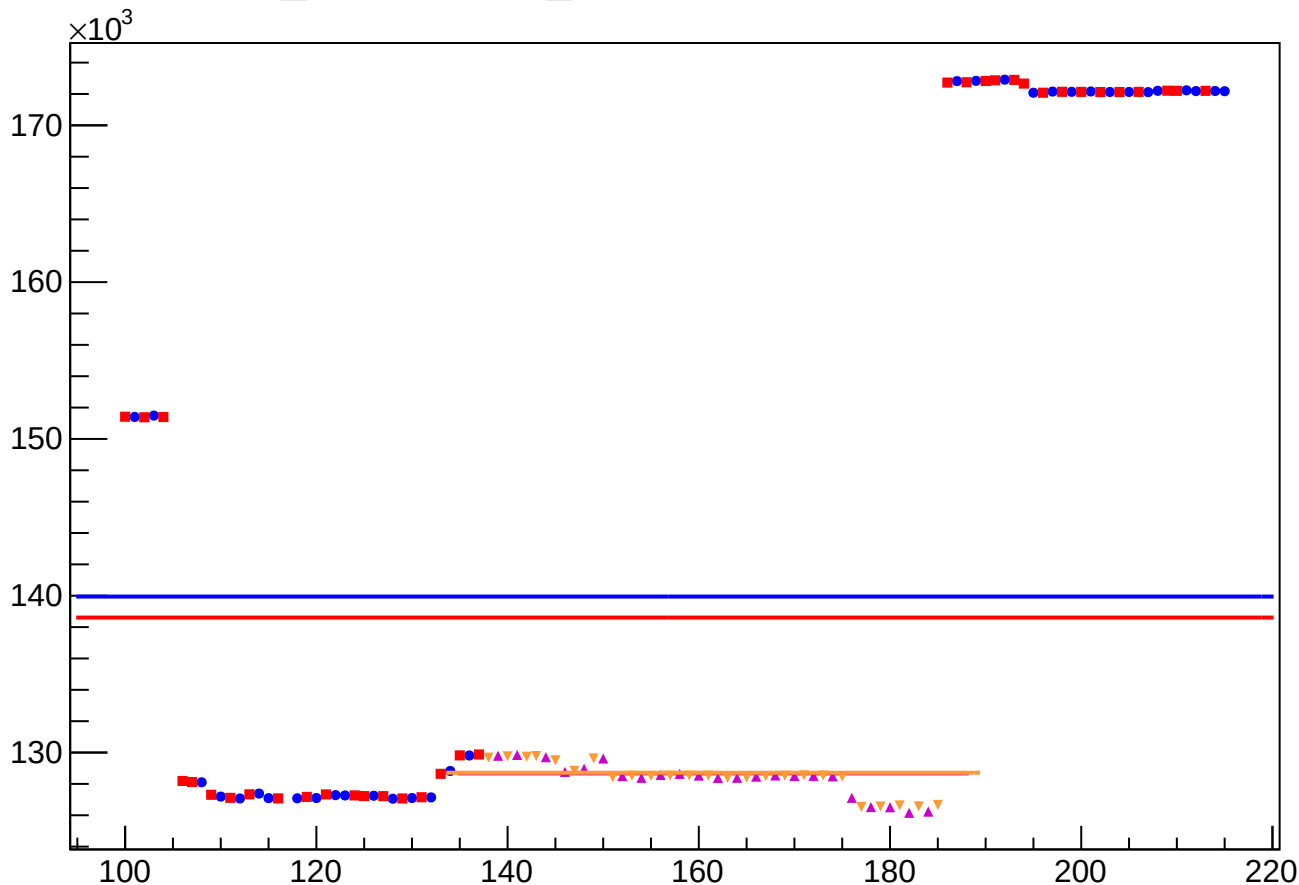
Right: 0.792+/-0.000 χ^2/NDF : 6770661.7/65

In: 0.806+/-0.000 χ^2/NDF : 3785687.6/54

Out: 0.793+/-0.000 χ^2/NDF : 4170260.6/58

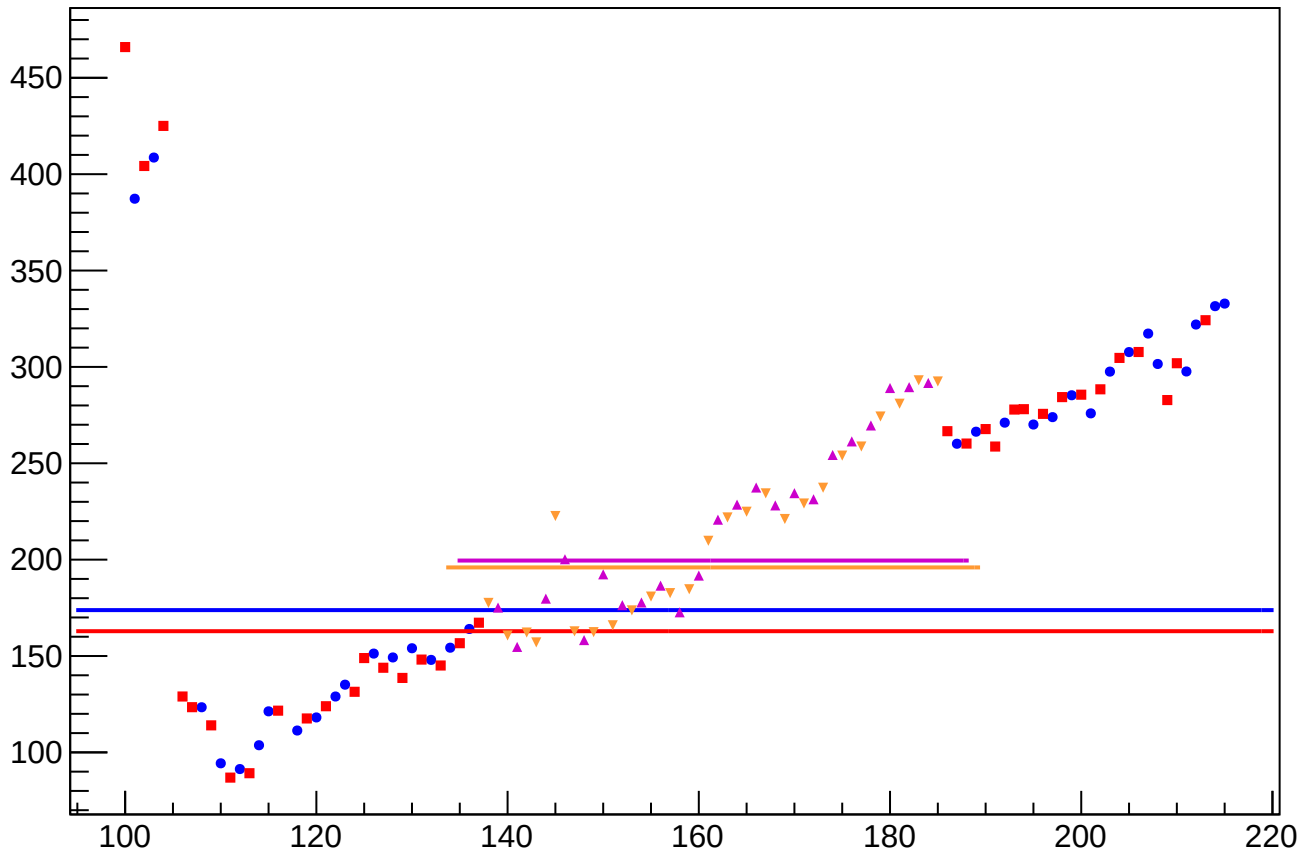
All: 0.799+/-0.000 χ^2/NDF : 7962745.4/113

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139947.822+/-0.047	χ^2/NDF : 181057686407.6/31	Left: 128692.941+/-0.034	χ^2/NDF : 683588051.4/47
Left Out: 128713.791+/-0.047	χ^2/NDF : 348293942.5/24	Right: 139236.977+/-0.032	χ^2/NDF : 372315913499
Right Out: 138608.247+/-0.044	χ^2/NDF : 190821532311.4/33	In: 134561.164+/-0.034	χ^2/NDF : 209252285989.9
Left In: 128670.094+/-0.049	χ^2/NDF : 334875494.0/22	Out: 133959.577+/-0.032	χ^2/NDF : 215018704245.
		All: 134244.157+/-0.023	χ^2/NDF : 424438419

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 173.816 $\pm$ 0.033 χ^2/NDF : 6386899.8/31

Left Out: 195.964 $\pm$ 0.033 χ^2/NDF :1316091.7/24

Right Out: 162.876 $\pm$ 0.031 χ^2/NDF : 6449188.1/33

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

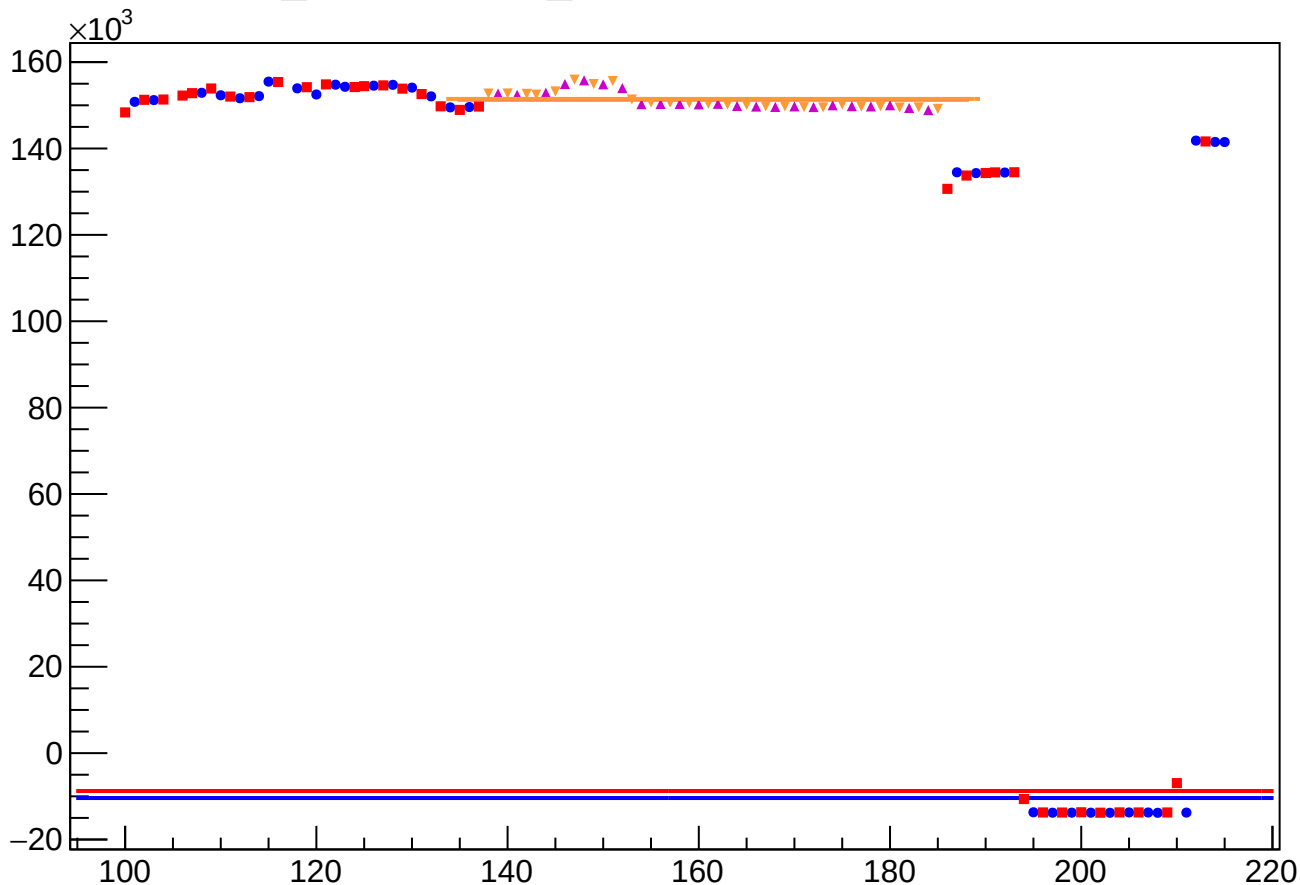
Right: 168.011 $\pm$ 0.023 χ^2/NDF : 12894342.9/65

In: 186.099 $\pm$ 0.024 χ^2/NDF :7851938.9/54

Out: 178.421 $\pm$ 0.023 χ^2/NDF :8298689.6/58

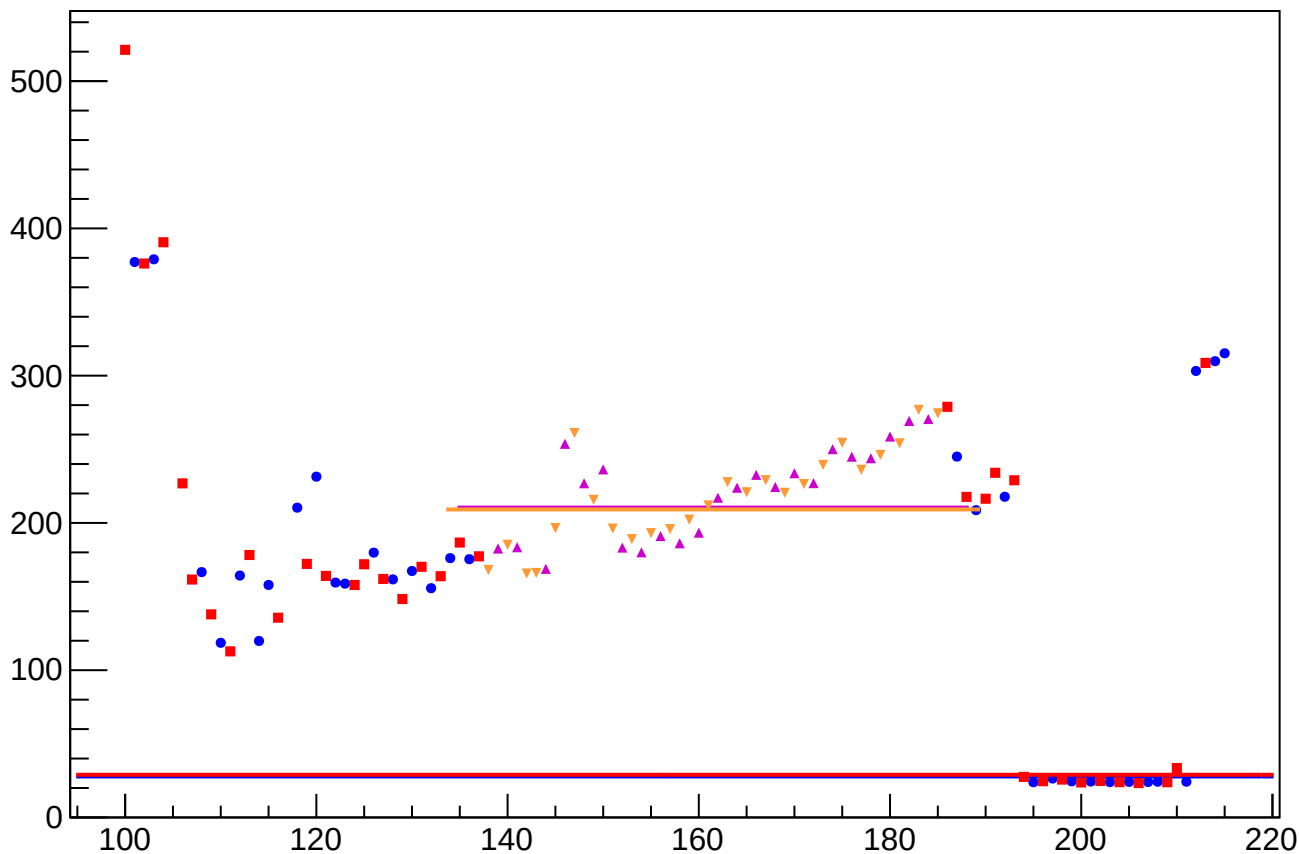
All: 182.053 $\pm$ 0.016 χ^2/NDF : 16205161.9/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10394.047 $\pm$ 0.009	χ^2 /NDF: 6385848261516.3/31	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: -9652.871 $\pm$ 0.007	χ^2 /NDF: 1374662491852
Right Out: -8765.648 $\pm$ 0.010	χ^2 /NDF: 7346482330308.8/33	In: -5351.048 $\pm$ 0.009	χ^2 /NDF: 16048500667164.1
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: -2410.497 $\pm$ 0.010	χ^2 /NDF: 17423840330837
		All: -4006.223 $\pm$ 0.007	χ^2 /NDF: 3352068373

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.846 $\pm$ 0.006 χ^2 /NDF: 15009203.0/31

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 28.978 $\pm$ 0.007 χ^2 /NDF: 14742787.7/33

Left In: 210.431 $\pm$ 0.036 χ^2 /NDF: 684015.0/22

Left: 209.771 $\pm$ 0.025 χ^2 /NDF: 1394750.9/47

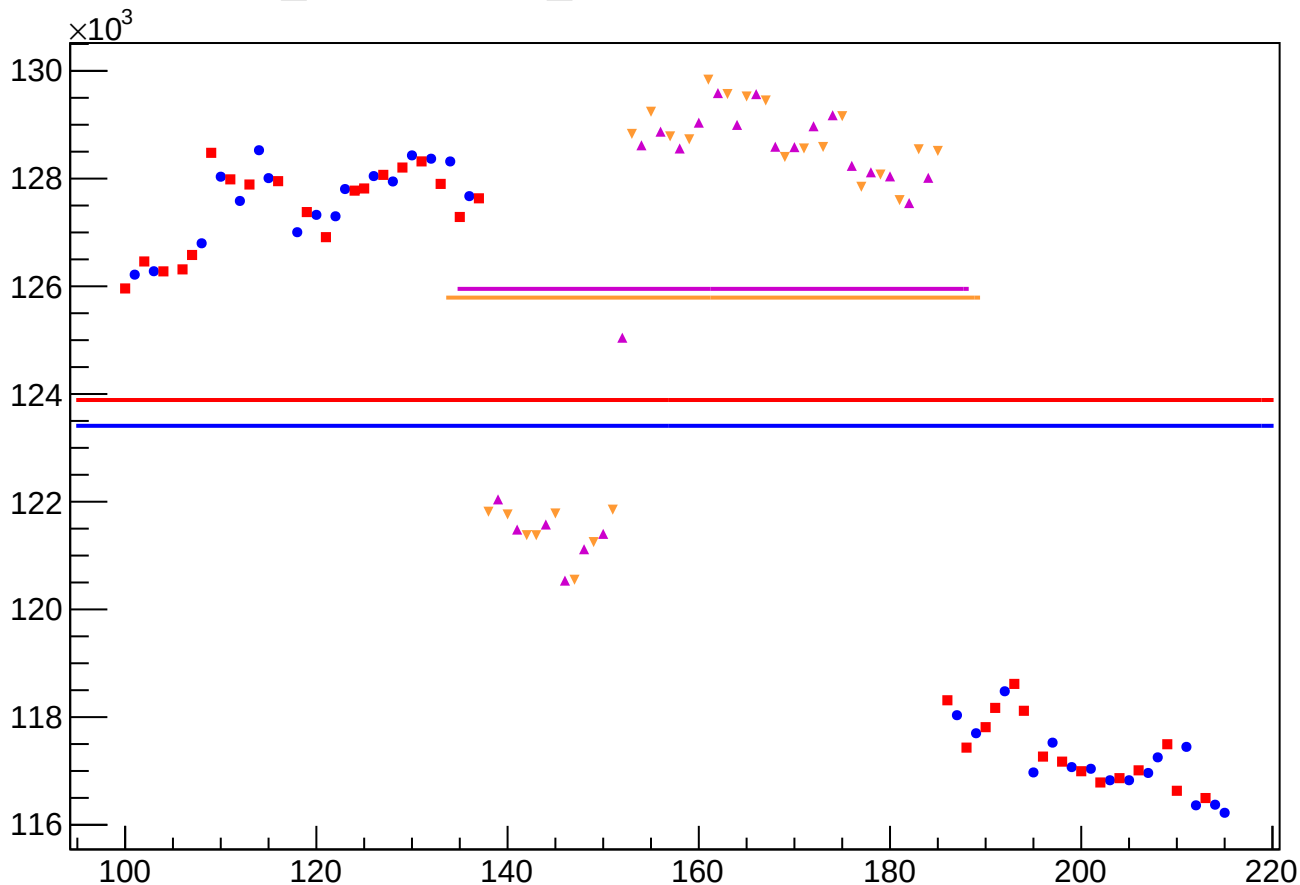
Right: 28.361 $\pm$ 0.005 χ^2 /NDF: 29765807.3/65

In: 33.538 $\pm$ 0.006 χ^2 /NDF: 40312162.6/54

Out: 36.123 $\pm$ 0.007 χ^2 /NDF: 40929525.8/58

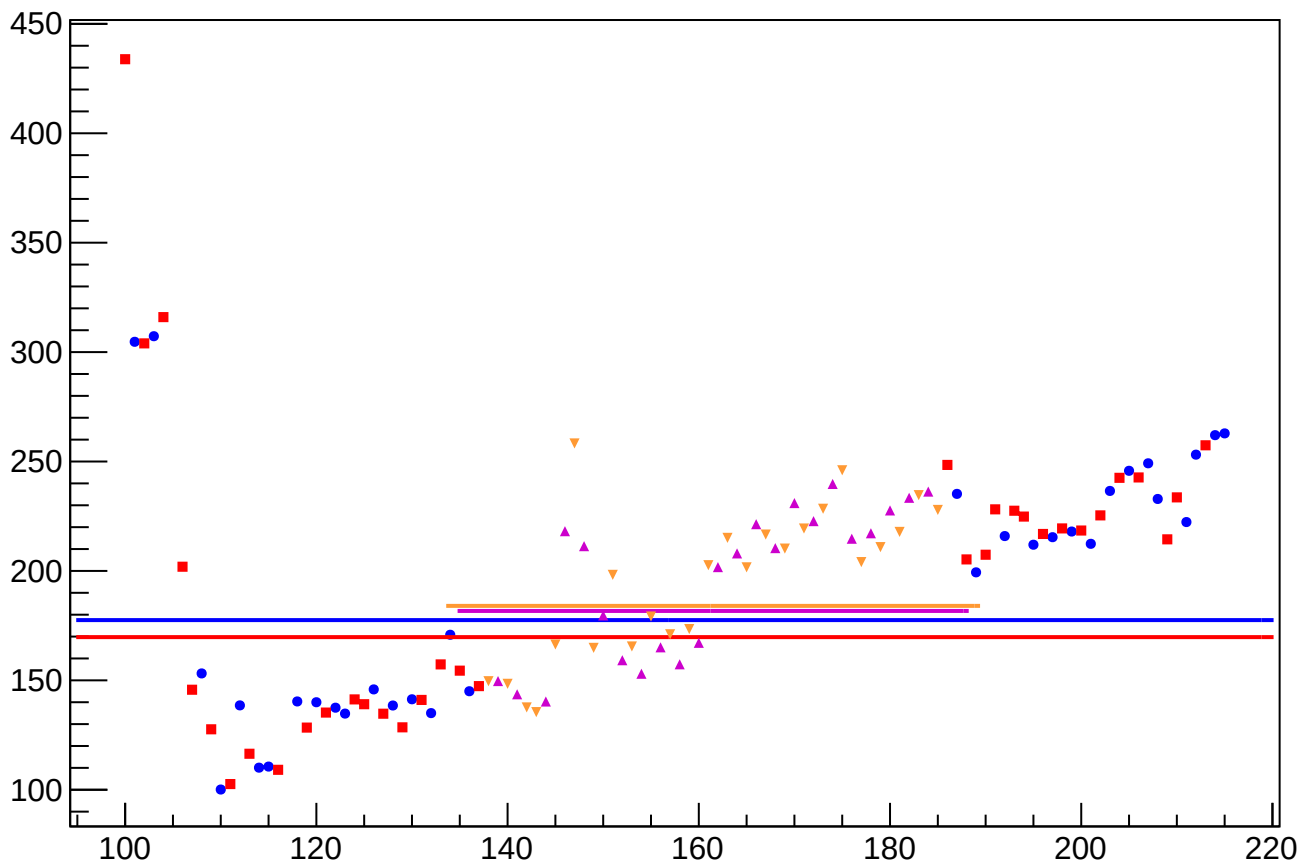
All: 34.720 $\pm$ 0.005 χ^2 /NDF: 81316424.8/113

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123409.322 $\pm$ 0.045	χ^2/NDF : 13495981383.3/31	Left: 125870.001 $\pm$ 0.031	χ^2/NDF : 12592819321.6/24
Left Out: 125790.126 $\pm$ 0.044	χ^2/NDF : 6744310079.8/24	Right: 123657.926 $\pm$ 0.031	χ^2/NDF : 27098112732.2/24
Right Out: 123888.514 $\pm$ 0.043	χ^2/NDF : 13543167095.1/33	In: 124688.991 $\pm$ 0.032	χ^2/NDF : 20948566878.8/5
Left In: 125952.447 $\pm$ 0.045	χ^2/NDF : 5841800367.5/22	Out: 124824.674 $\pm$ 0.031	χ^2/NDF : 21237459515.6/24
		All: 124758.649 $\pm$ 0.022	χ^2/NDF : 421954425.1/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 177.529+/-0.032 χ^2/NDF : 2760200.6/31

Left Out: 184.029+/-0.031 χ^2/NDF : 1126592.5/24

Right Out: 169.752+/-0.031 χ^2/NDF : 2985073.5/33

Left In: 181.714+/-0.032 χ^2/NDF : 1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

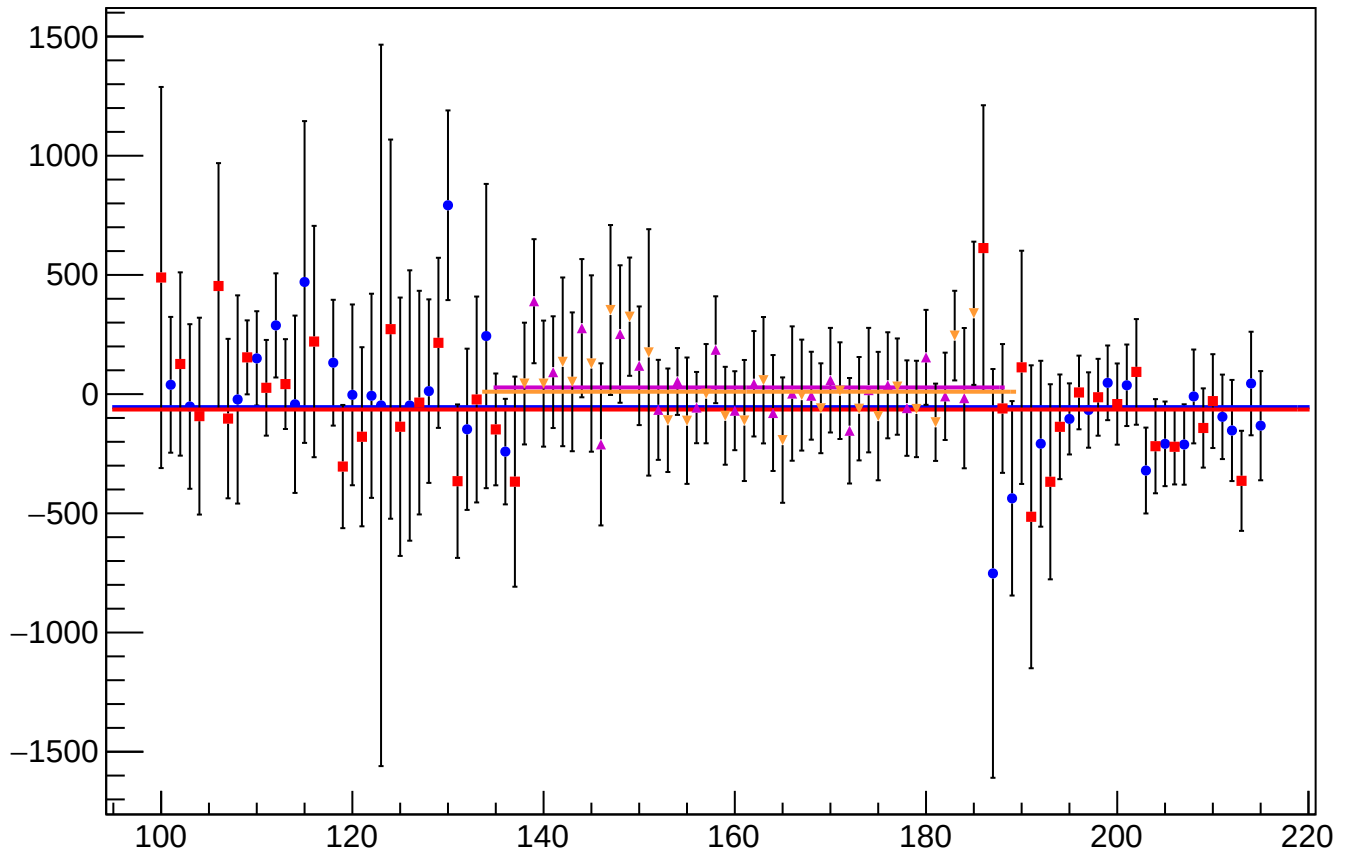
Right: 173.494+/-0.022 χ^2/NDF : 5776335.9/65

In: 179.635+/-0.022 χ^2/NDF : 3885066.6/54

Out: 176.781+/-0.022 χ^2/NDF : 4218766.6/58

All: 178.170+/-0.016 χ^2/NDF : 8112166.4/113

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -54.529 ± 42.624 χ^2/NDF : 17.3/31

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -64.601 ± 43.075 χ^2/NDF : 15.1/33

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

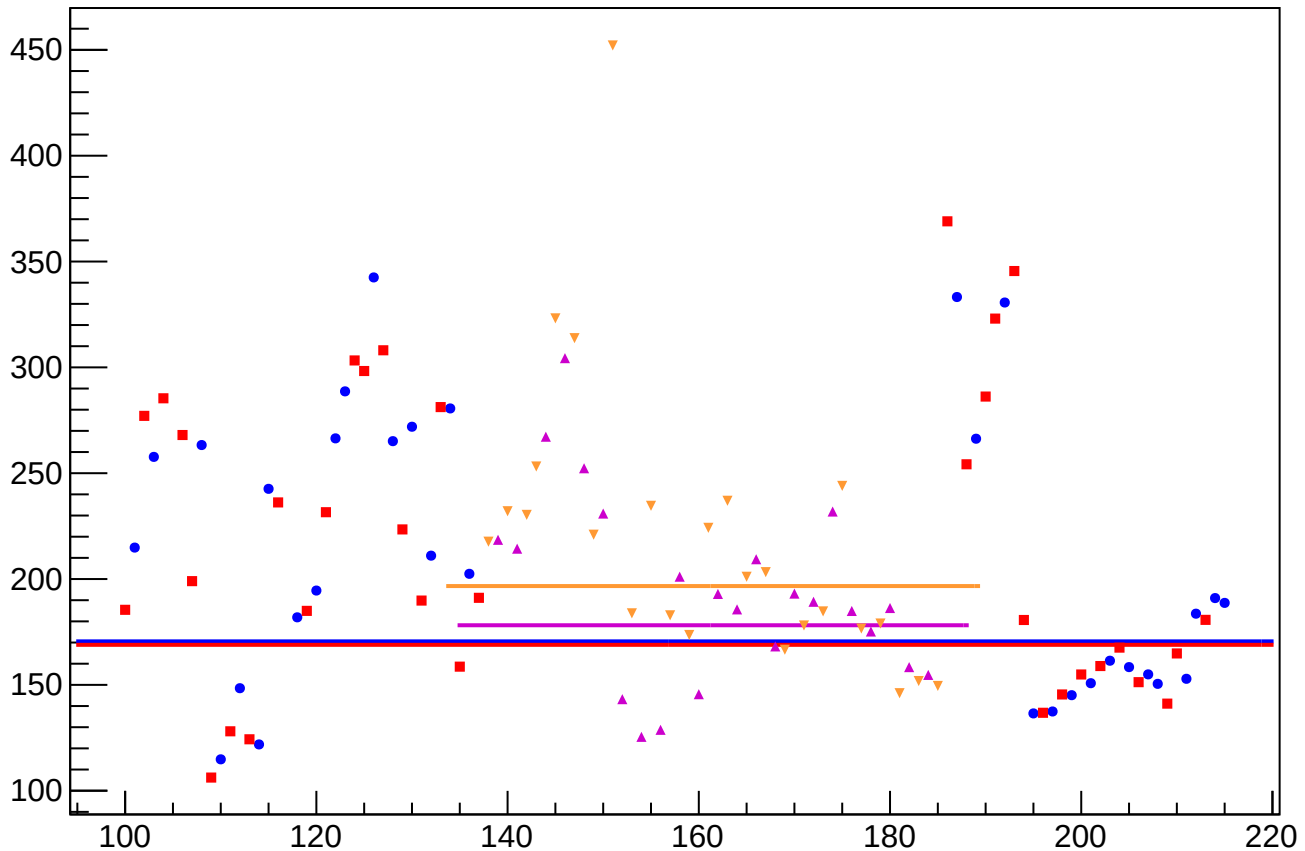
Right: -59.512 ± 30.298 χ^2/NDF : 32.5/65

In: -15.084 ± 30.806 χ^2/NDF : 26.1/54

Out: -30.892 ± 31.905 χ^2/NDF : 24.9/58

All: -22.711 ± 22.161 χ^2/NDF : 51.2/113

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 170.555 $\pm$ 0.030 χ^2 /NDF: 2178460.3/31

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 168.923 $\pm$ 0.030 χ^2 /NDF: 2846104.4/33

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

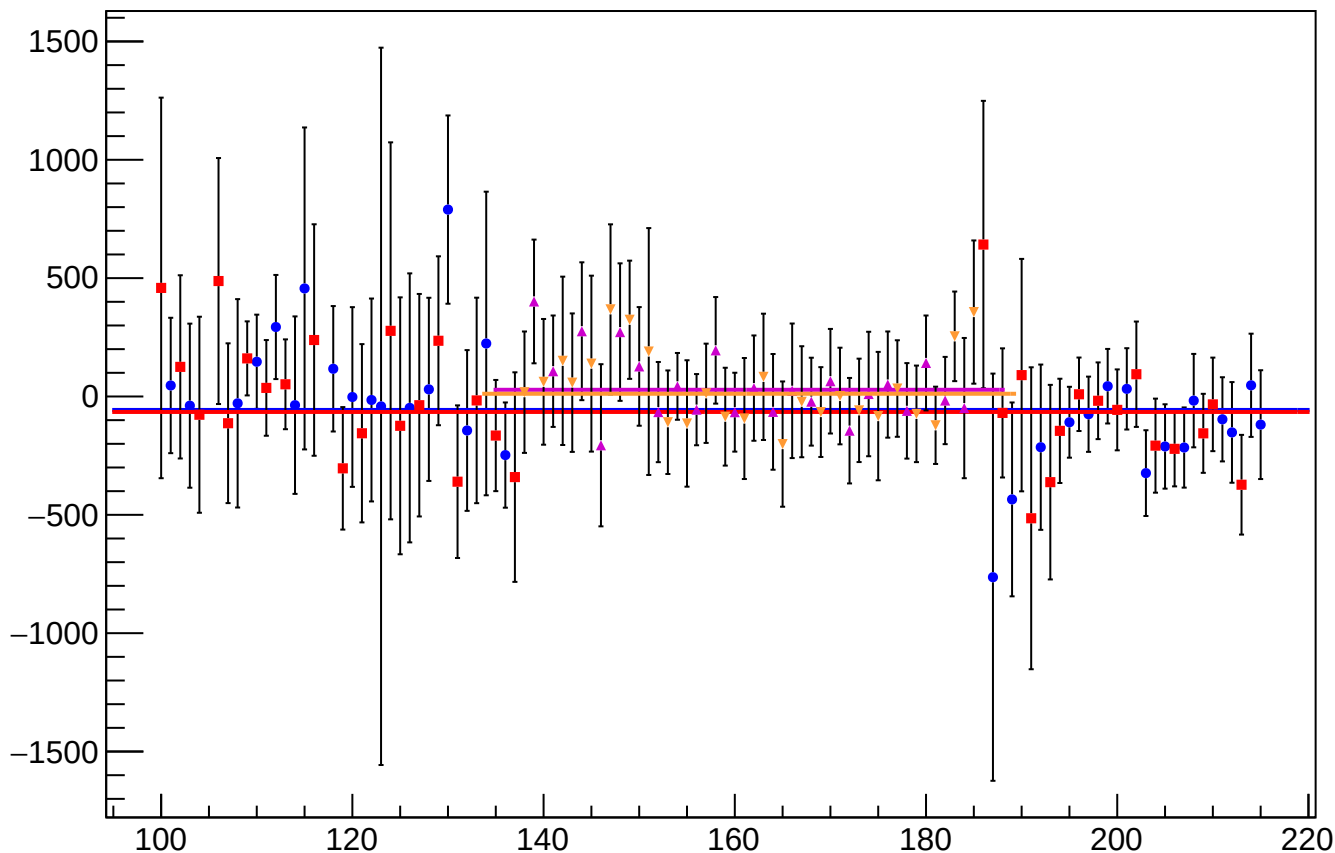
Right: 169.748 $\pm$ 0.021 χ^2 /NDF: 5026015.1/65

In: 174.190 $\pm$ 0.022 χ^2 /NDF:3827882.3/54

Out: 181.453 $\pm$ 0.023 χ^2 /NDF:5003712.5/58

All: 177.694 $\pm$ 0.016 χ^2 /NDF: 8885228.0/113

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -56.870 ± 42.816 $\chi^2/\text{NDF}: 17.3/31$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -65.342 ± 43.285 $\chi^2/\text{NDF}: 15.5/33$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

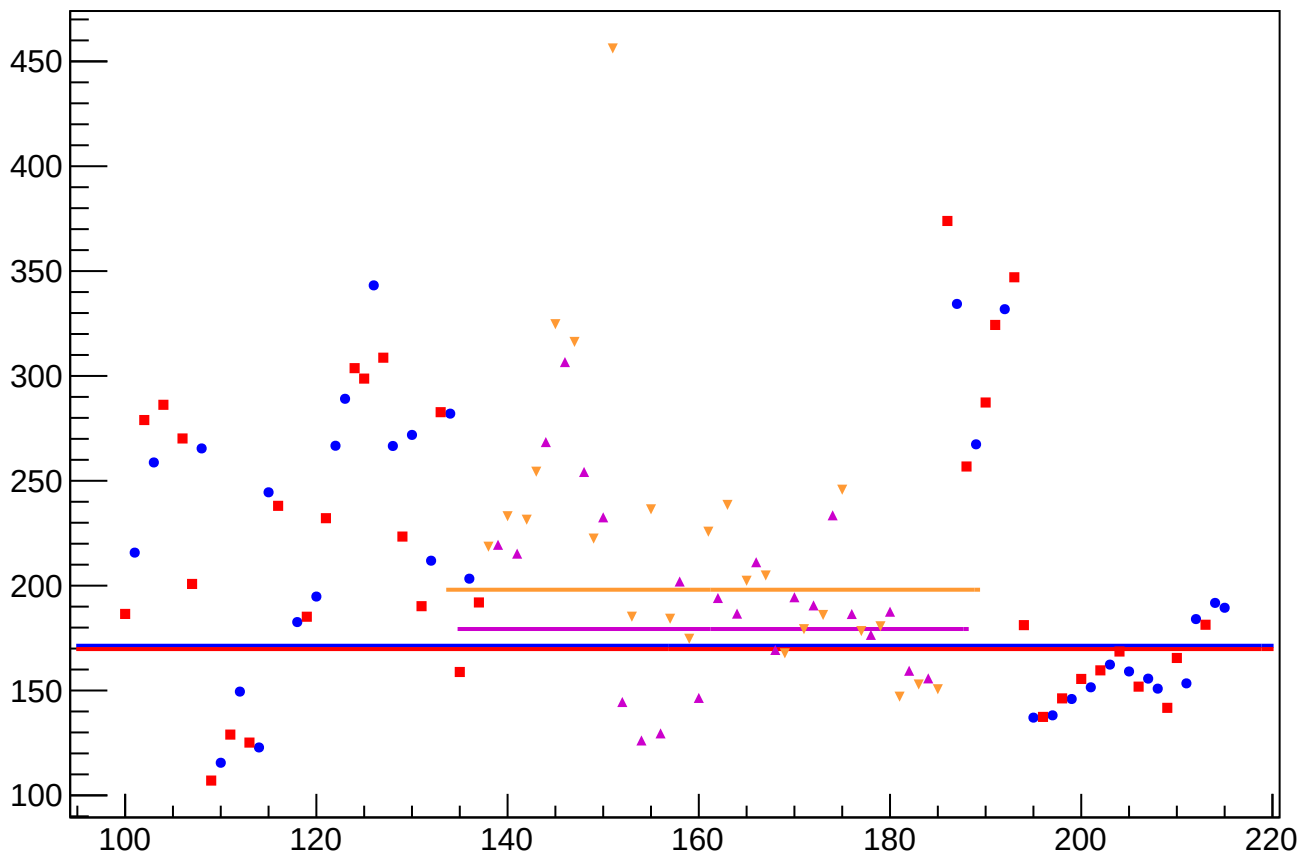
Right: -61.060 ± 30.440 $\chi^2/\text{NDF}: 32.8/65$

In: -16.282 ± 30.974 $\chi^2/\text{NDF}: 26.2/54$

Out: -30.746 ± 32.091 $\chi^2/\text{NDF}: 25.8/58$

All: -23.258 ± 22.286 $\chi^2/\text{NDF}: 52.1/113$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 171.344+/-0.030 χ^2/NDF : 2169615.5/31

Left Out: 198.059+/-0.034 χ^2/NDF :1778526.5/24

Right Out: 169.754+/-0.031 χ^2/NDF : 2841927.4/33

Left In: 179.324+/-0.032 χ^2/NDF :1618266.2/22

Left: 188.094+/-0.023 χ^2/NDF : 3560073.1/47

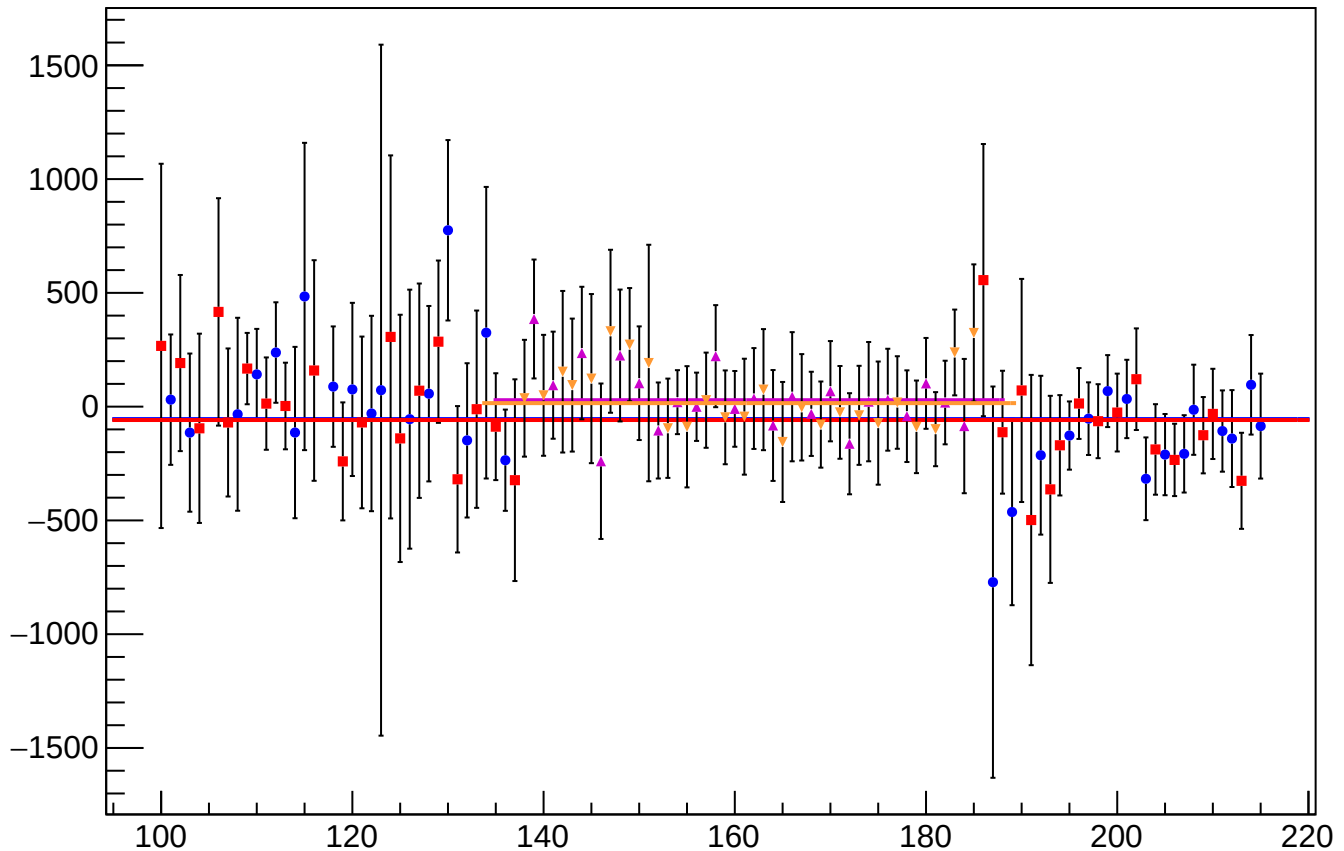
Right: 170.558+/-0.022 χ^2/NDF : 5012908.2/65

In: 175.148+/-0.022 χ^2/NDF :3820993.3/54

Out: 182.501+/-0.023 χ^2/NDF :5005619.2/58

All: 178.694+/-0.016 χ^2/NDF : 8880972.7/113

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -54.766 ± 42.902 $\chi^2/\text{NDF}: 16.9/31$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -58.799 ± 43.315 $\chi^2/\text{NDF}: 13.5/33$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

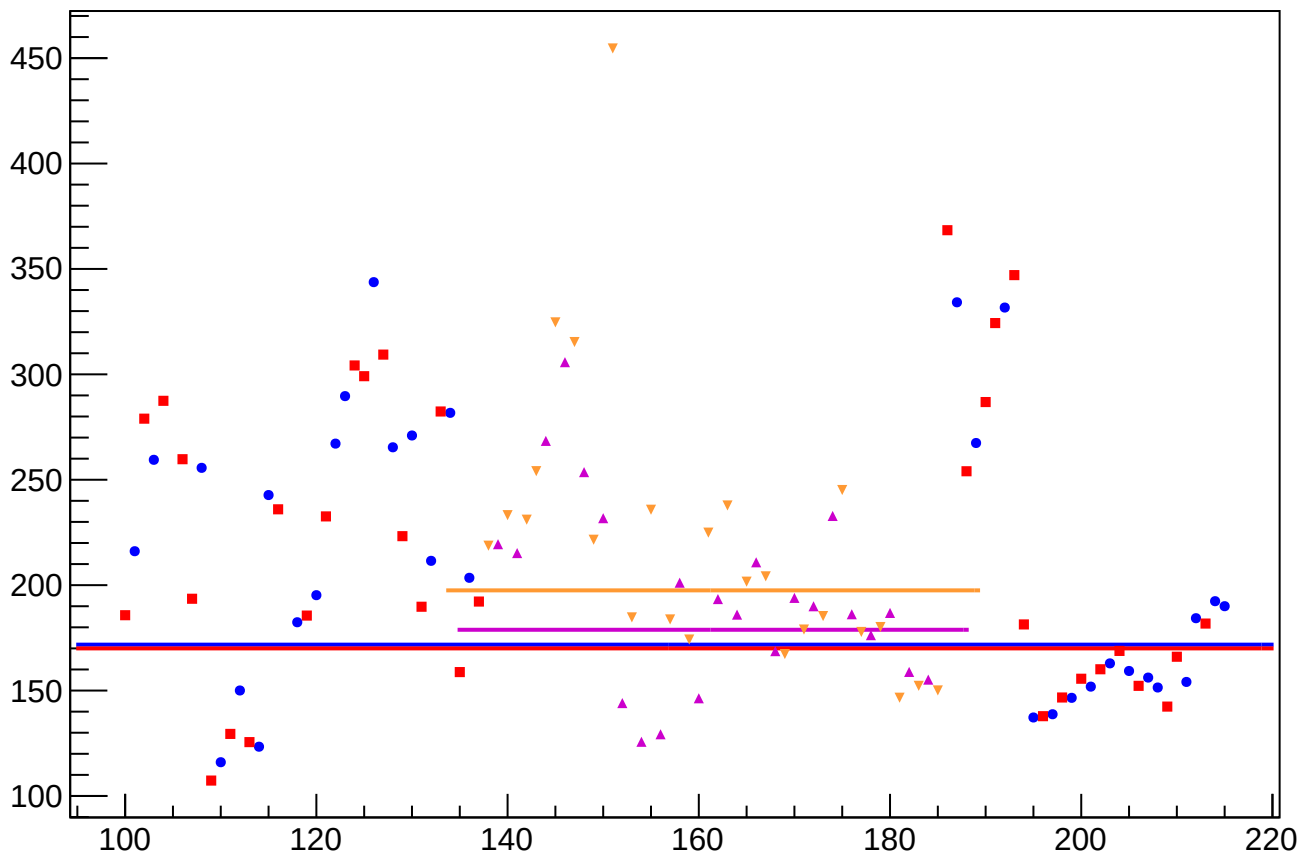
Right: -56.763 ± 30.481 $\chi^2/\text{NDF}: 30.5/65$

In: -14.988 ± 30.967 $\chi^2/\text{NDF}: 25.1/54$

Out: -25.245 ± 32.065 $\chi^2/\text{NDF}: 21.8/58$

All: -19.938 ± 22.275 $\chi^2/\text{NDF}: 47.0/113$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.777 ± 0.030 χ^2/NDF : 2137204.4/31

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 170.001 ± 0.031 χ^2/NDF : 2794372.0/33

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

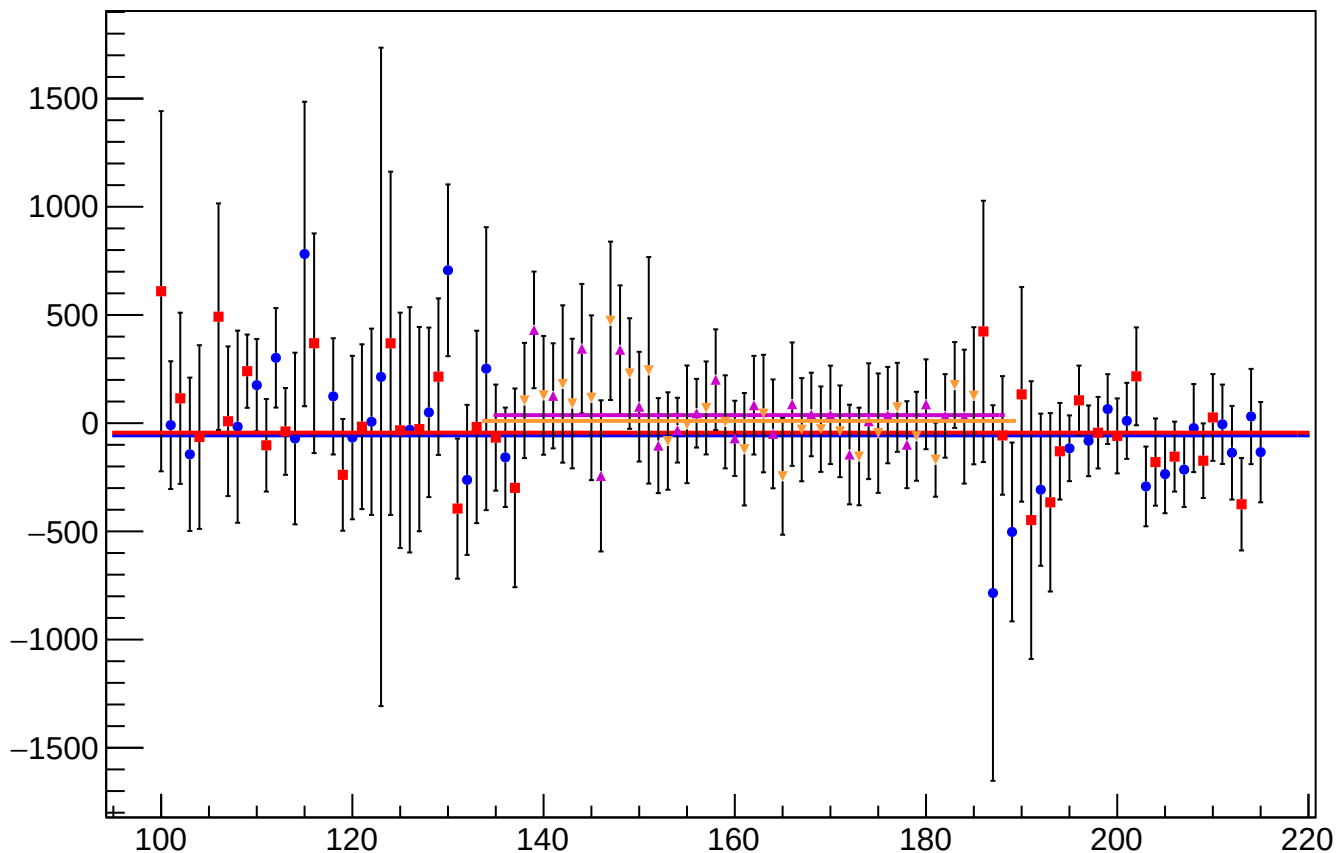
Right: 170.897 ± 0.022 χ^2/NDF : 4933274.0/65

In: 175.158 ± 0.022 χ^2/NDF : 3785406.3/54

Out: 182.442 ± 0.023 χ^2/NDF : 4943676.9/58

All: 178.673 ± 0.016 χ^2/NDF : 8782489.6/113

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.199 ± 43.815 $\chi^2/\text{NDF}: 17.4/31$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -43.876 ± 44.457 $\chi^2/\text{NDF}: 16.3/33$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

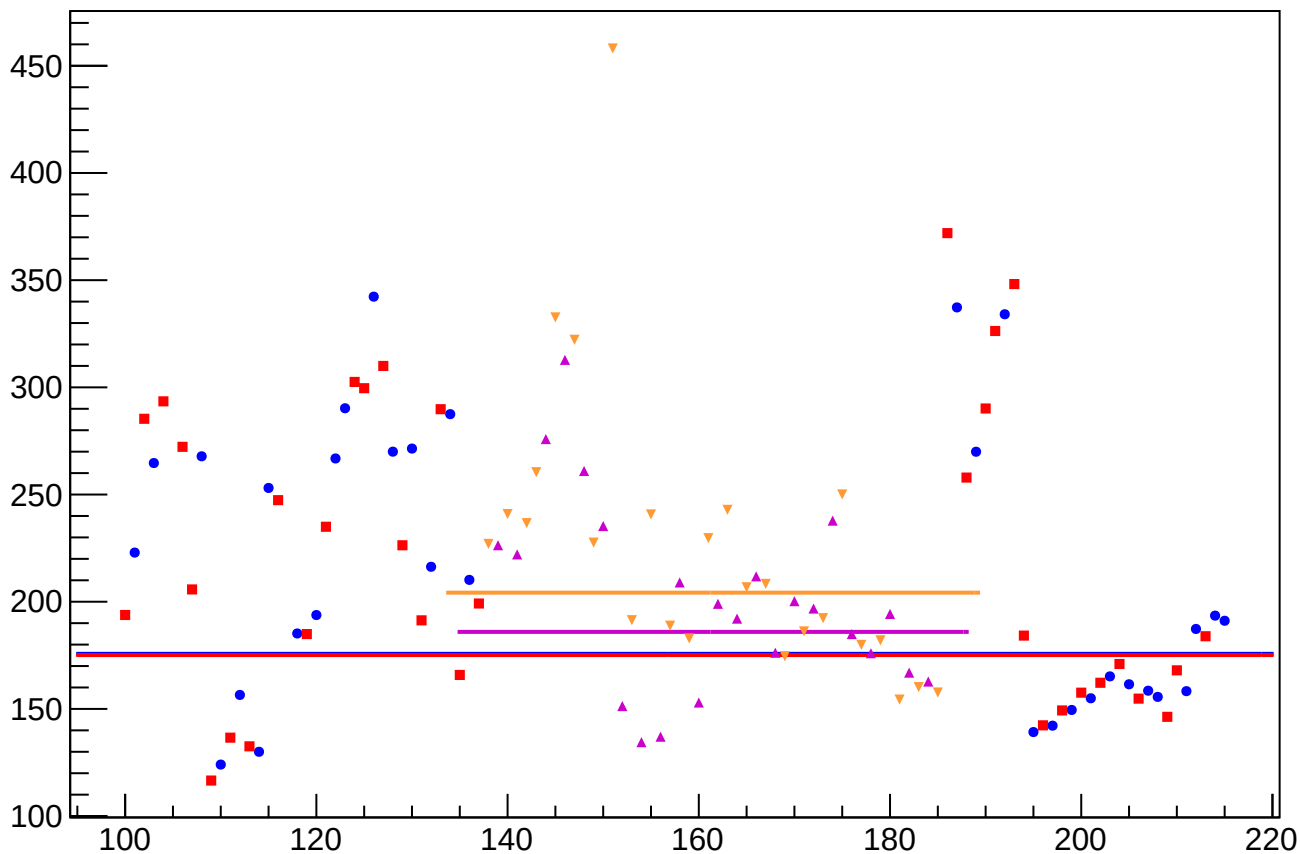
Right: -50.127 ± 31.206 $\chi^2/\text{NDF}: 33.8/65$

In: -12.226 ± 31.843 $\chi^2/\text{NDF}: 27.4/54$

Out: -19.417 ± 32.985 $\chi^2/\text{NDF}: 24.5/58$

All: -15.695 ± 22.909 $\chi^2/\text{NDF}: 51.9/113$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.690 $\pm$ 0.031 χ^2 /NDF: 2052887.0/31

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 175.125 $\pm$ 0.031 χ^2 /NDF: 2612014.6/33

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

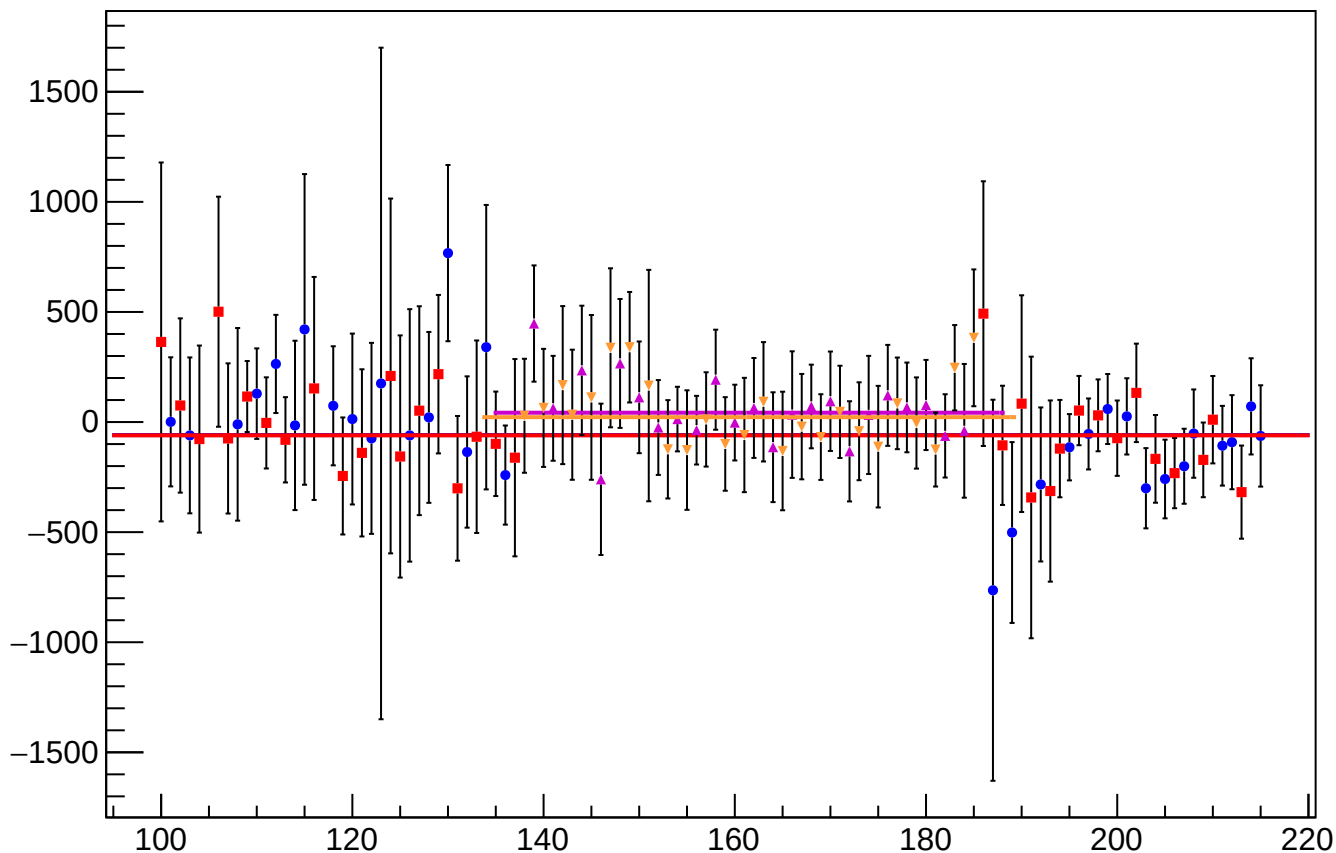
Right: 175.412 $\pm$ 0.022 χ^2 /NDF: 4665065.6/65

In: 180.522 $\pm$ 0.023 χ^2 /NDF:3564506.0/54

Out: 188.211 $\pm$ 0.023 χ^2 /NDF:4673163.4/58

All: 184.231 $\pm$ 0.016 χ^2 /NDF: 8293919.1/113

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -59.173 ± 43.275 χ^2/NDF : 16.5/31

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -60.298 ± 43.775 χ^2/NDF : 11.6/33

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

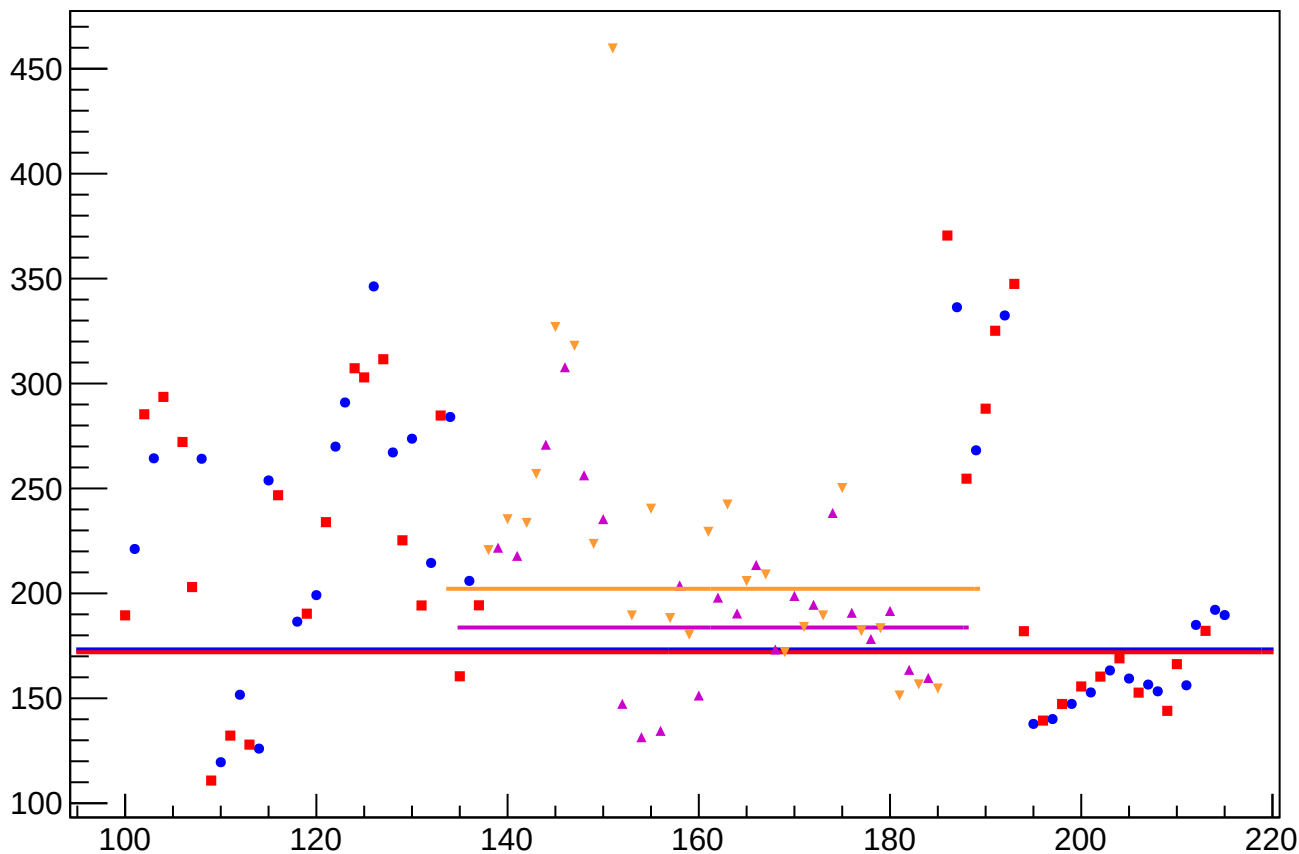
Right: -59.729 ± 30.775 χ^2/NDF : 28.1/65

In: -11.309 ± 31.474 χ^2/NDF : 25.8/54

Out: -23.467 ± 32.567 χ^2/NDF : 21.6/58

All: -17.181 ± 22.632 χ^2/NDF : 47.4/113

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 173.296 $\pm$ 0.031 χ^2/NDF : 2138181.9/31

Left Out: 202.186 $\pm$ 0.034 χ^2/NDF : 1696571.9/24

Right Out: 171.940 $\pm$ 0.031 χ^2/NDF : 2773057.3/33

Left In: 183.732 $\pm$ 0.032 χ^2/NDF : 1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2/NDF : 3344580.1/47

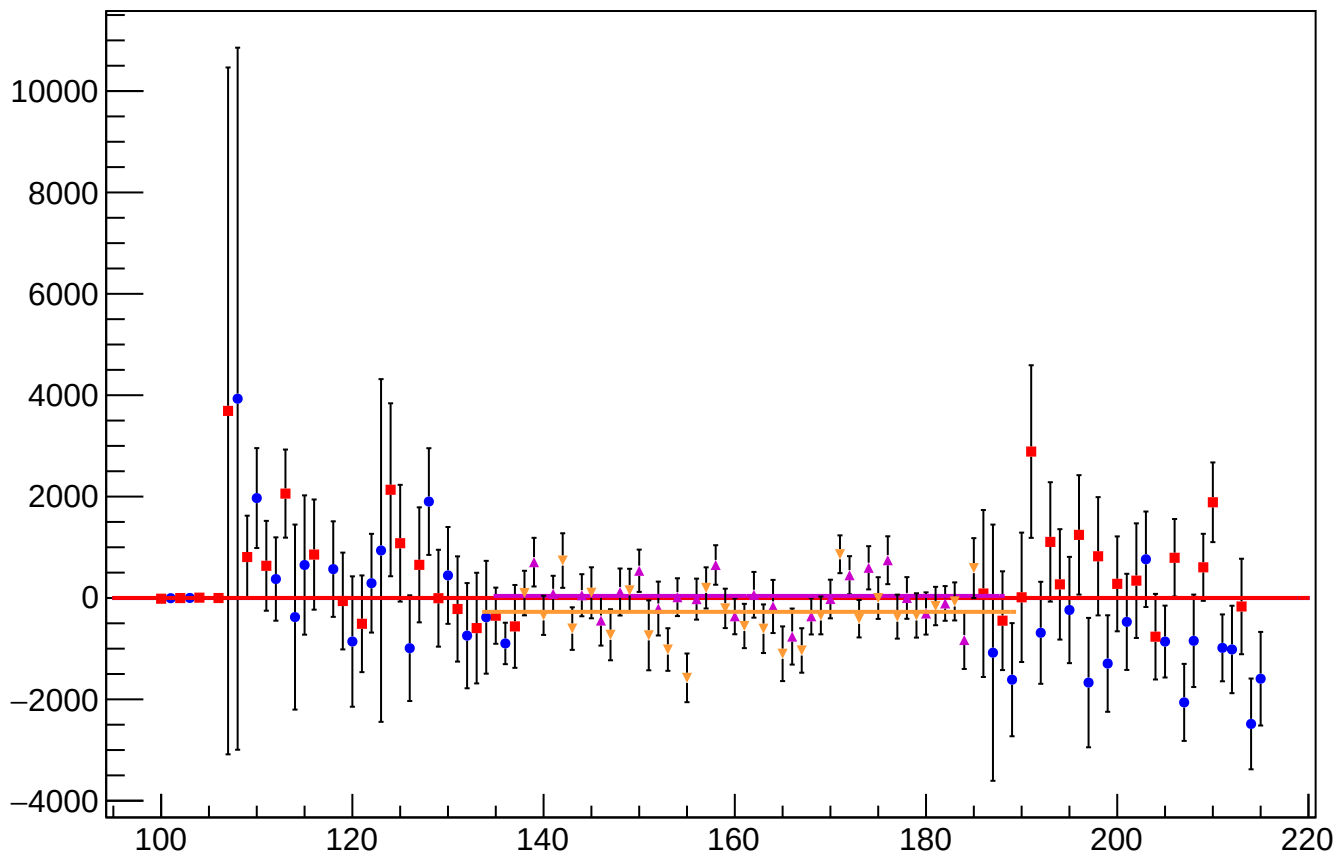
Right: 172.626 $\pm$ 0.022 χ^2/NDF : 4912210.6/65

In: 178.212 $\pm$ 0.022 χ^2/NDF : 3688895.1/54

Out: 185.445 $\pm$ 0.023 χ^2/NDF : 4895962.8/58

All: 181.705 $\pm$ 0.016 χ^2/NDF : 8635867.1/113

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.627 ± 2.251 χ^2/NDF : 48.1/31

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.767 ± 2.111 χ^2/NDF : 32.6/33

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

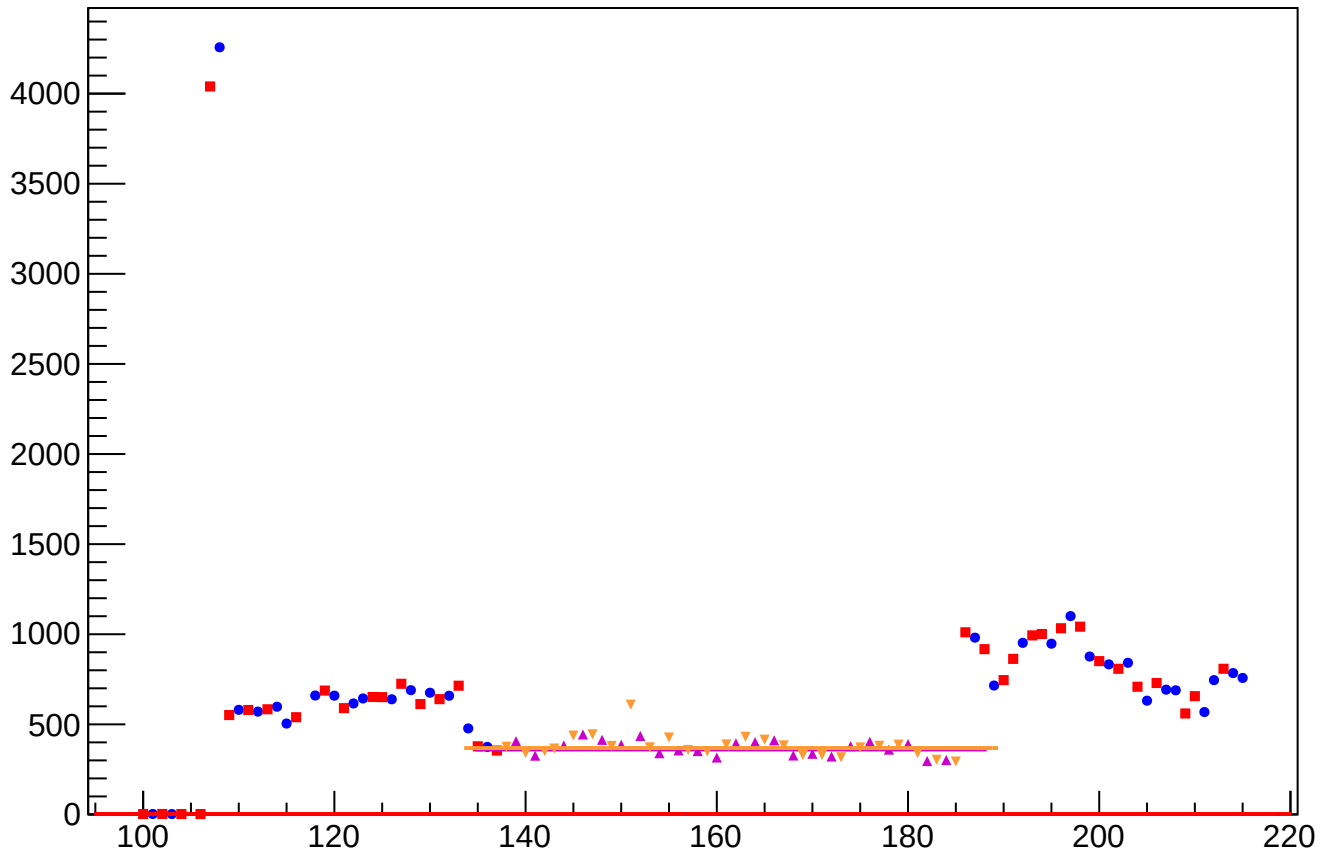
Right: -0.353 ± 1.540 χ^2/NDF : 81.2/65

In: -1.599 ± 2.251 χ^2/NDF : 68.5/54

Out: 0.605 ± 2.110 χ^2/NDF : 80.9/58

All: -0.426 ± 1.539 χ^2/NDF : 149.8/113

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.524+/-0.002 χ^2/NDF : 31652218.1/31

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.491+/-0.001 χ^2/NDF : 31152180.9/33

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

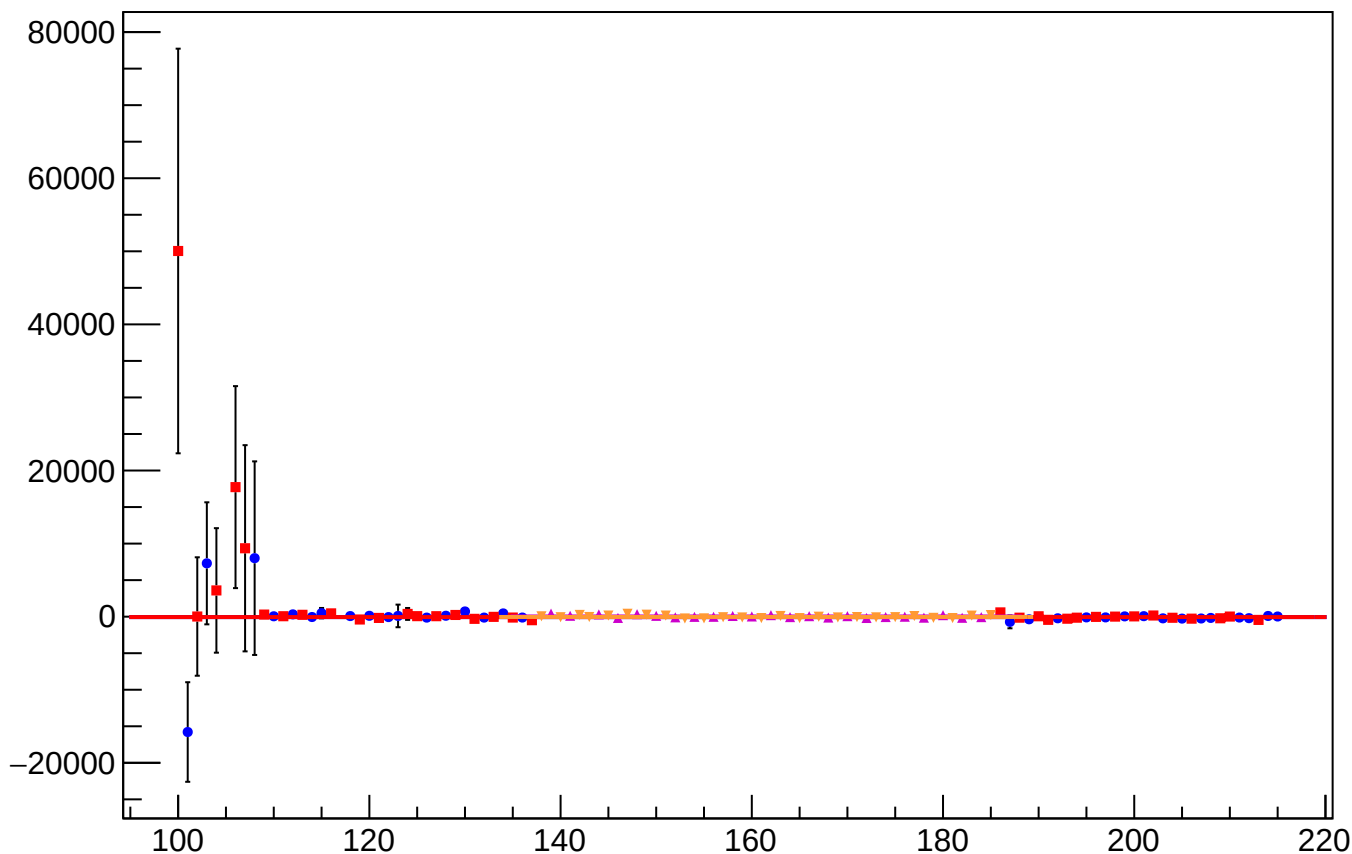
Right: 2.506+/-0.001 χ^2/NDF : 62804629.4/65

In: 2.761+/-0.002 χ^2/NDF : 65563453.7/54

Out: 2.707+/-0.001 χ^2/NDF : 67258554.6/58

All: 2.732+/-0.001 χ^2/NDF : 132822624.1/113

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.759+/-47.143 χ^2/NDF : 21.5/31

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -55.918+/-48.427 χ^2/NDF : 24.2/33

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

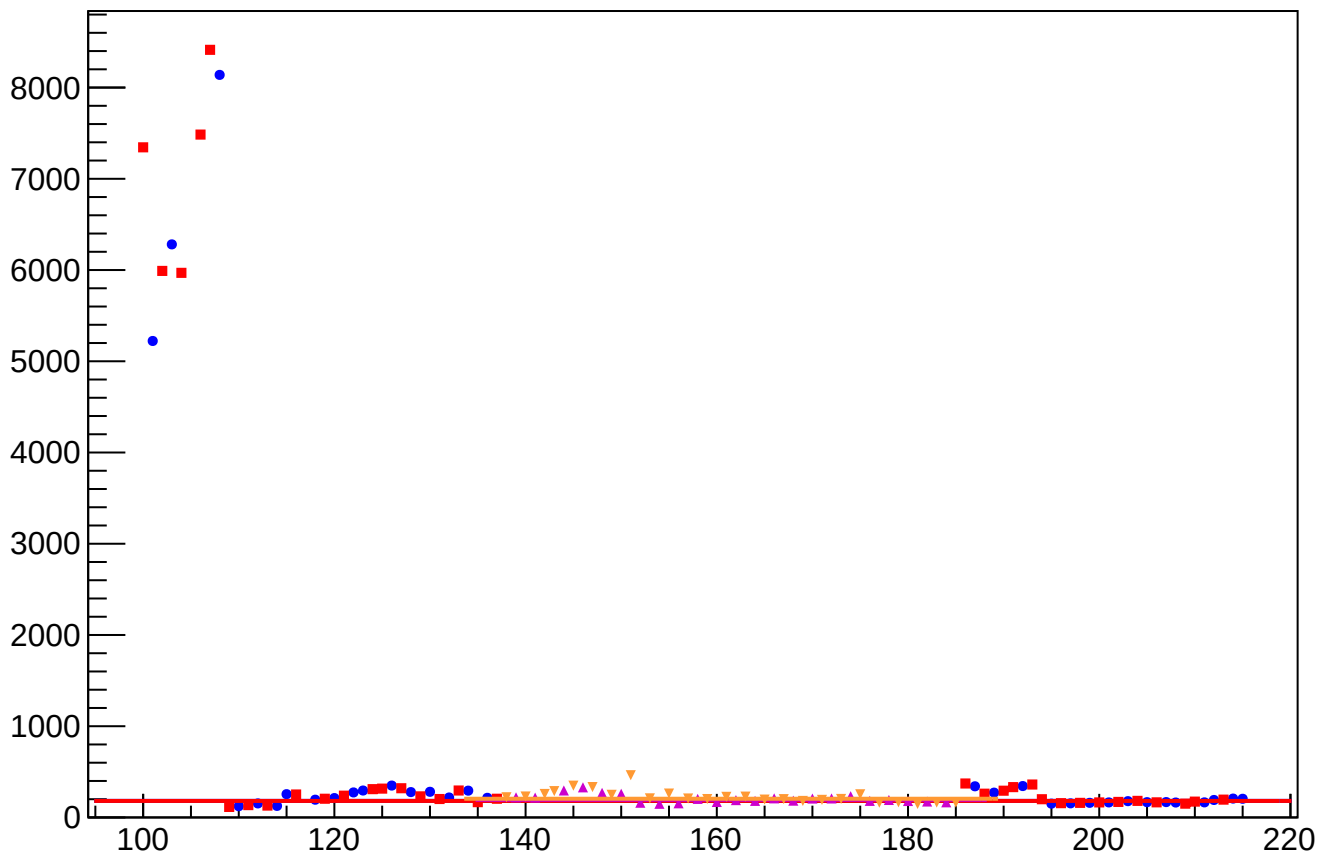
Right: -56.863+/-33.780 χ^2/NDF : 45.7/65

In: -15.650+/-33.645 χ^2/NDF : 32.7/54

Out: -47.674+/-34.642 χ^2/NDF : 33.4/58

All: -31.195+/-24.135 χ^2/NDF : 66.6/113

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 181.727+/-0.033 χ^2/NDF : 4578506.6/31

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 181.074+/-0.034 χ^2/NDF : 5425453.7/33

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

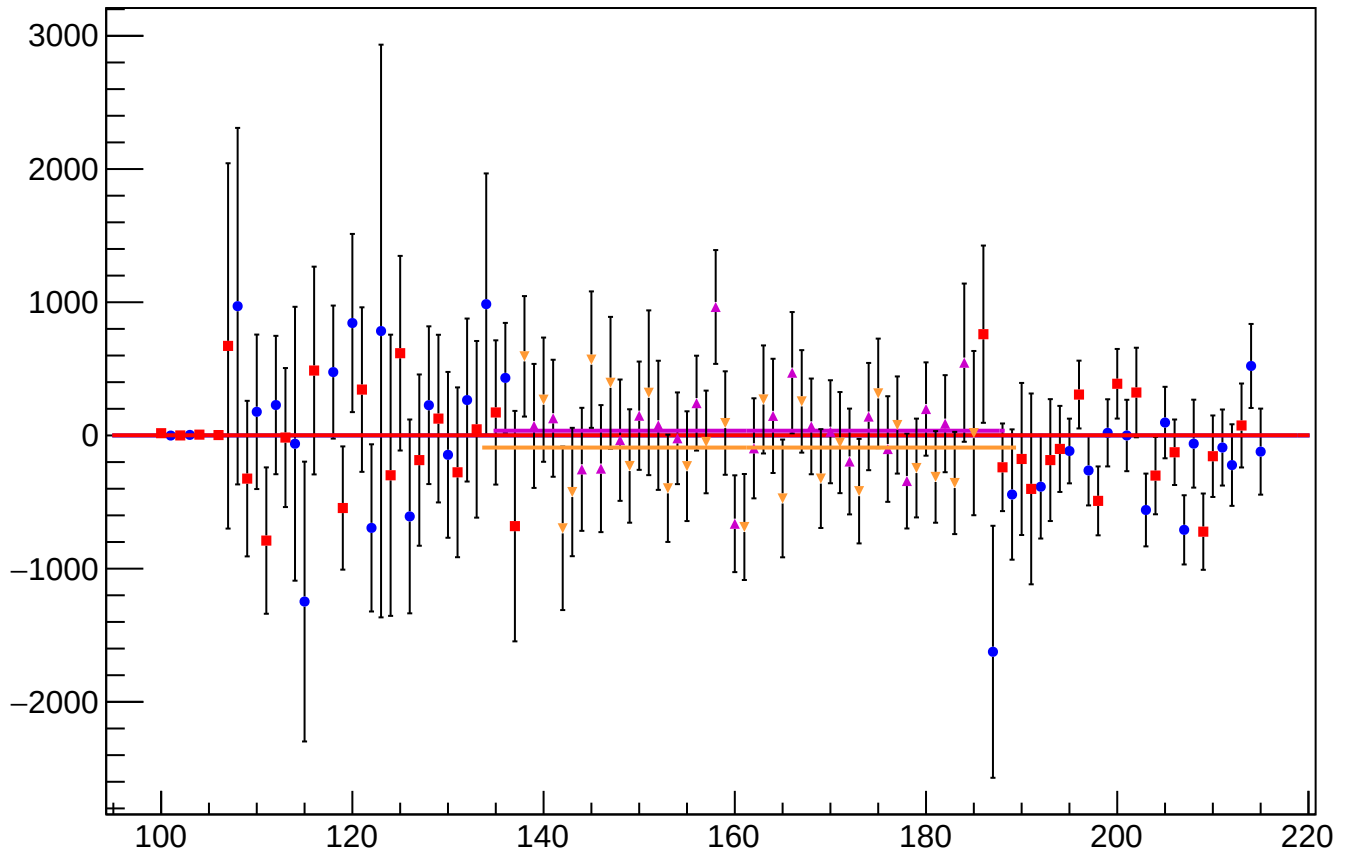
Right: 181.409+/-0.024 χ^2/NDF : 10004147.2/65

In: 187.561+/-0.024 χ^2/NDF :5820388.5/54

Out: 192.812+/-0.024 χ^2/NDF :7623584.3/58

All: 190.110+/-0.017 χ^2/NDF : 13467624.2/11

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.226 $\pm$ 1.736 χ^2/NDF : 31.4/31

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF : 16.4/24

Right Out: 1.288 $\pm$ 1.622 χ^2/NDF : 28.0/33

Left In: 35.488 $\pm$ 84.382 χ^2/NDF : 13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

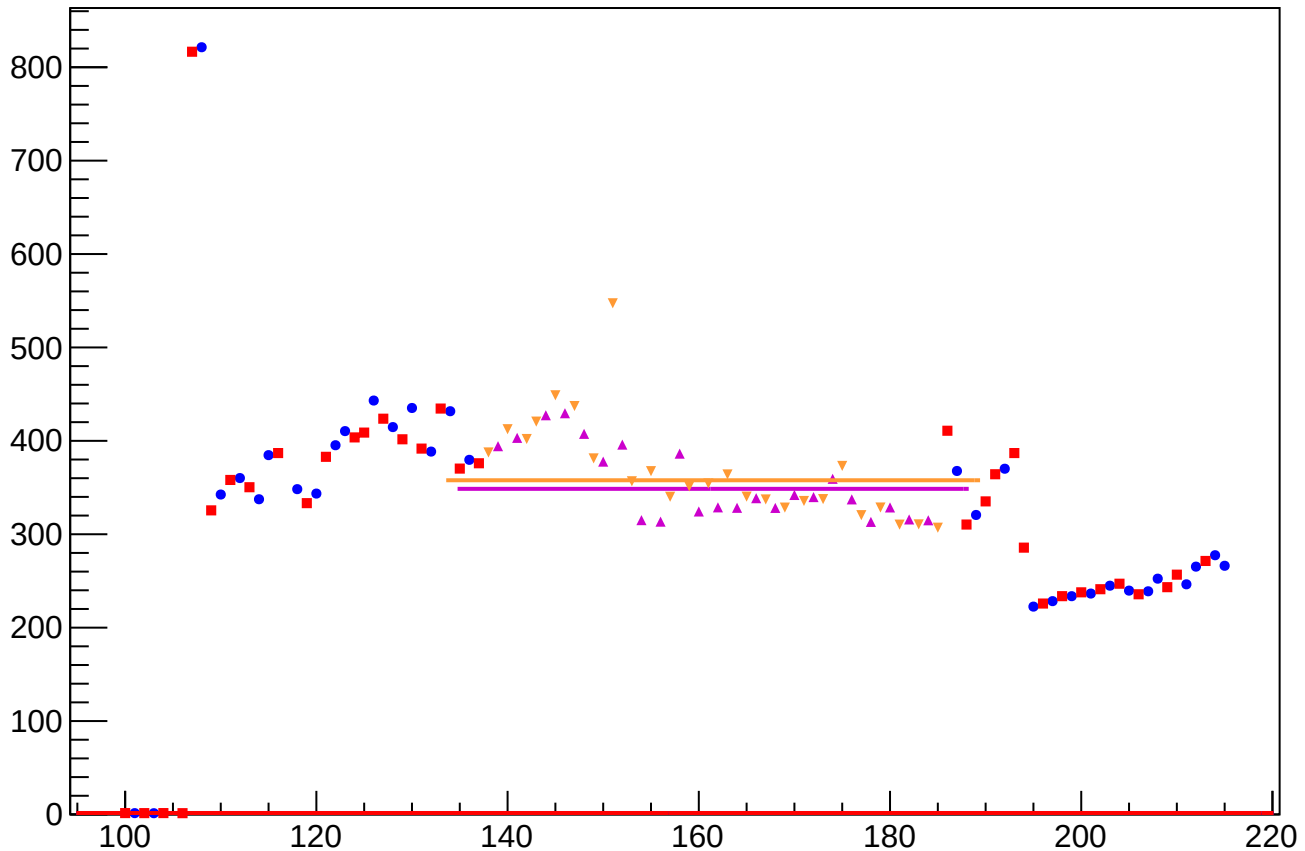
Right: 0.582 $\pm$ 1.185 χ^2/NDF : 59.8/65

In: -0.211 $\pm$ 1.736 χ^2/NDF : 45.0/54

Out: 1.253 $\pm$ 1.622 χ^2/NDF : 45.6/58

All: 0.571 $\pm$ 1.185 χ^2/NDF : 91.0/113

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.578 $\pm$ 0.001 χ^2 /NDF: 31922699.9/31

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF:547036.5/24

Right Out: 1.550 $\pm$ 0.001 χ^2 /NDF: 30859329.4/33

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

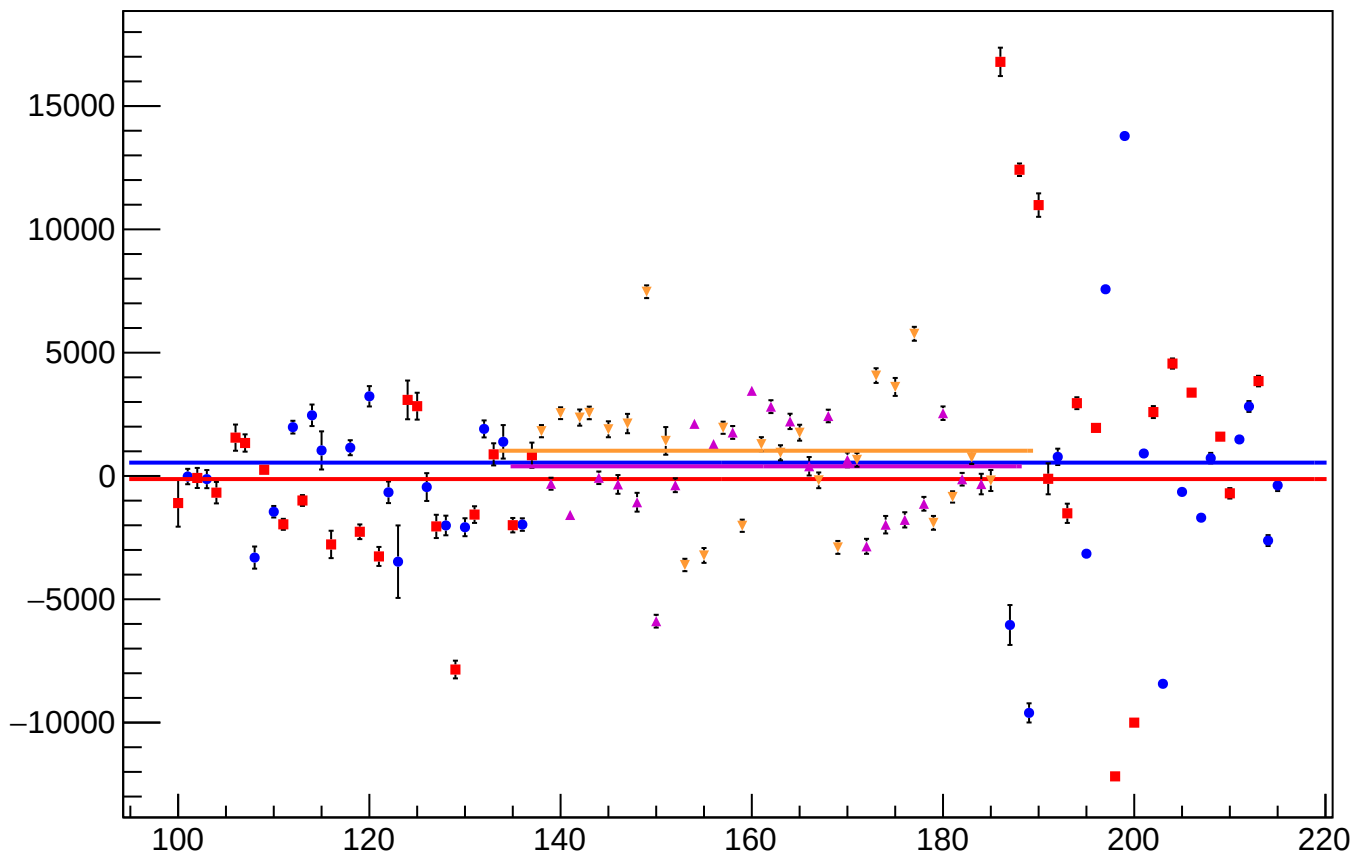
Right: 1.563 $\pm$ 0.001 χ^2 /NDF: 62782293.3/65

In: 1.724 $\pm$ 0.001 χ^2 /NDF:66098353.2/54

Out: 1.683 $\pm$ 0.001 χ^2 /NDF:67299963.0/58

All: 1.702 $\pm$ 0.001 χ^2 /NDF: 133398928.6/113

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 541.134+/-46.651 χ^2/NDF : 11358.9/31

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: -125.679+/-47.151 χ^2/NDF : 13688.6/33

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

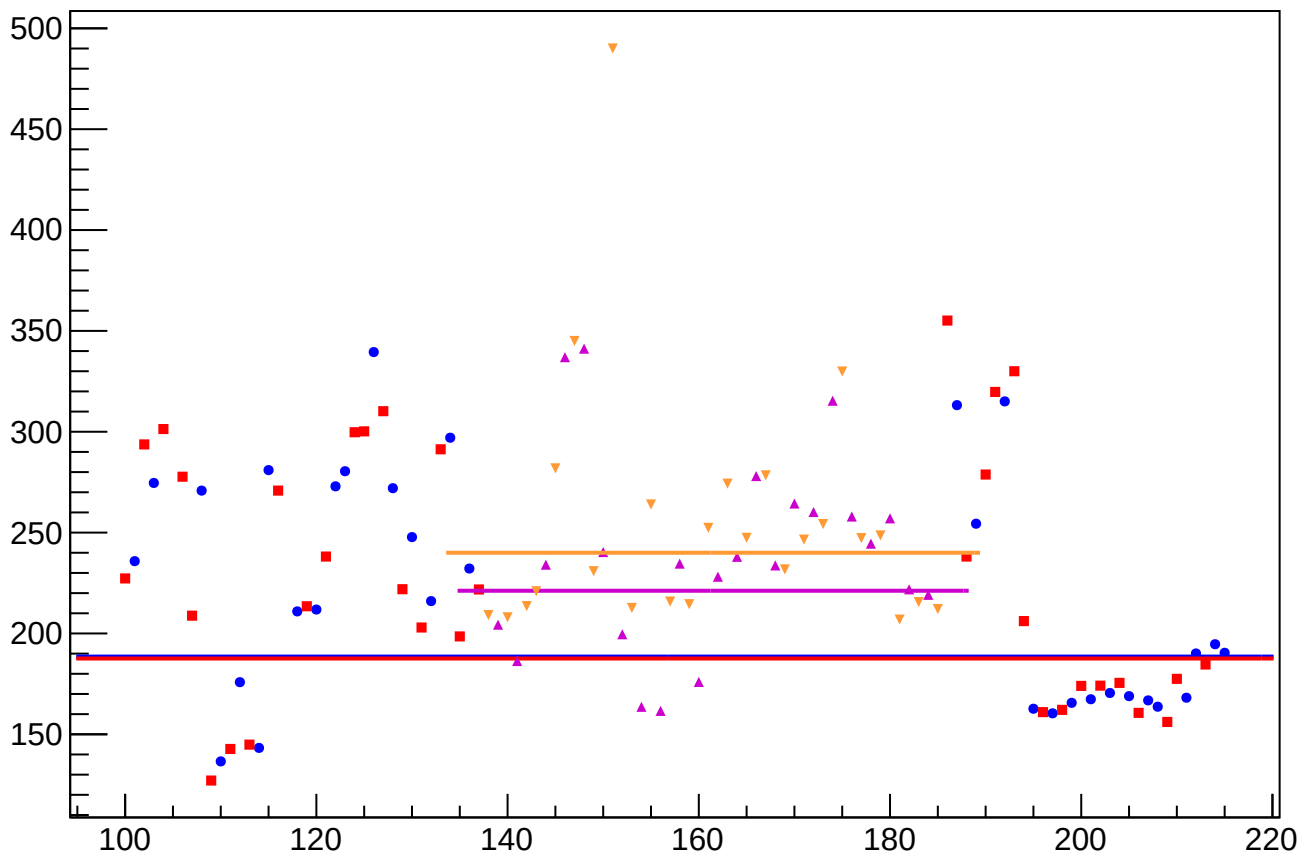
Right: 211.283+/-33.163 χ^2/NDF : 25148.5/65

In: 477.904+/-35.558 χ^2/NDF : 12948.2/54

Out: 337.906+/-36.419 χ^2/NDF : 16237.6/58

All: 409.579+/-25.442 χ^2/NDF : 29193.3/113

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.534 $\pm$ 0.033 χ^2 /NDF: 1544363.5/31

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 187.576 $\pm$ 0.033 χ^2 /NDF: 2121792.7/33

Left In: 221.173 $\pm$ 0.039 χ^2 /NDF:1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2 /NDF: 2457612.6/47

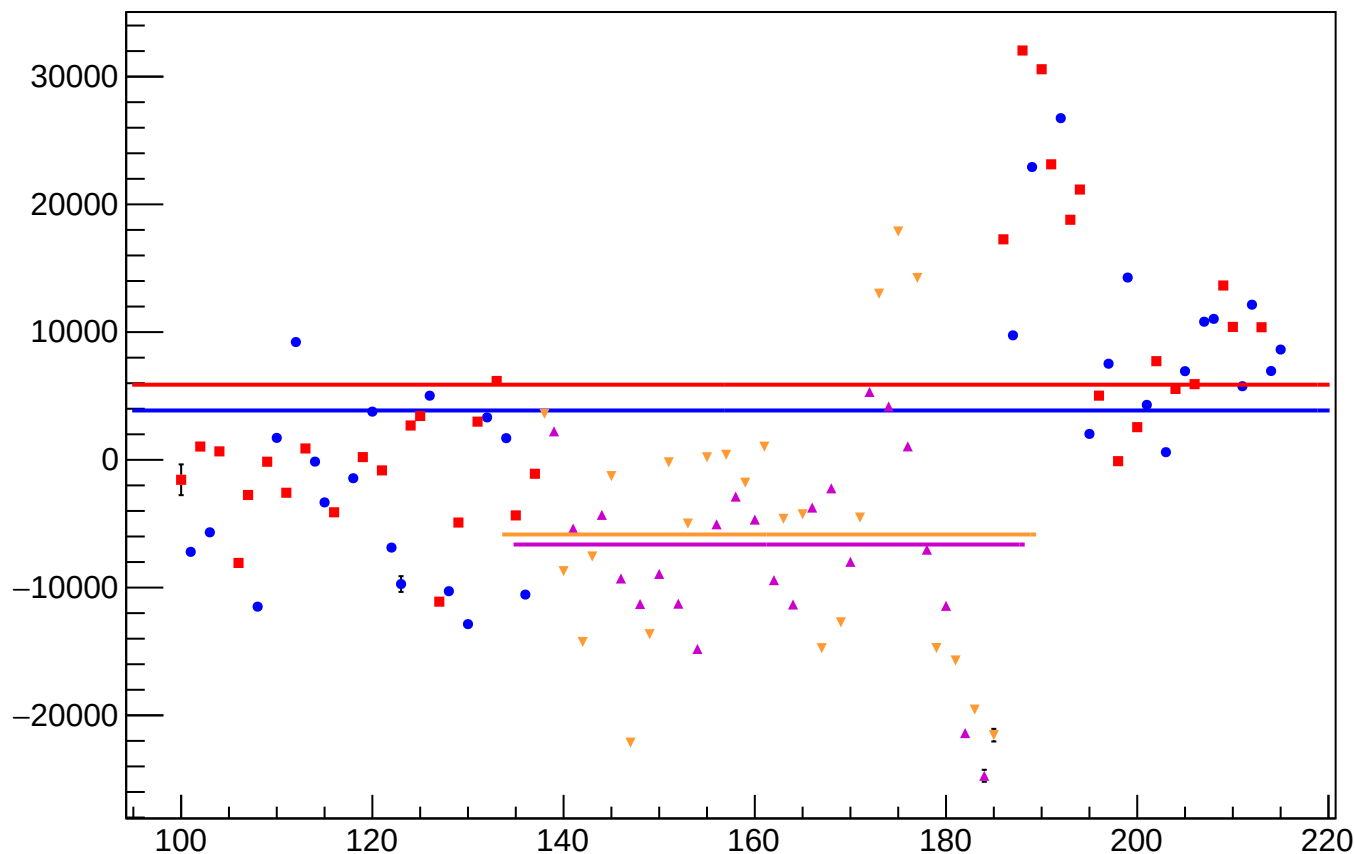
Right: 188.060 $\pm$ 0.023 χ^2 /NDF: 3666573.6/65

In: 202.211 $\pm$ 0.025 χ^2 /NDF:3297087.5/54

Out: 208.733 $\pm$ 0.026 χ^2 /NDF:4122337.8/58

All: 205.394 $\pm$ 0.018 χ^2 /NDF: 7452266.4/113

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3865.192 +/- 33.765

χ^2/NDF : 84419.5/31

Left: -6220.862 +/- 25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 +/- 35.848

χ^2/NDF : 63397.3/24

Right: 4902.880 +/- 23.539

χ^2/NDF : 190832.3/65

Right Out: 5884.085 +/- 32.833

χ^2/NDF : 104575.2/33

In: -880.426 +/- 24.990

χ^2/NDF : 149837.6/54

Out: 534.898 +/- 24.212

χ^2/NDF : 226156.1/58

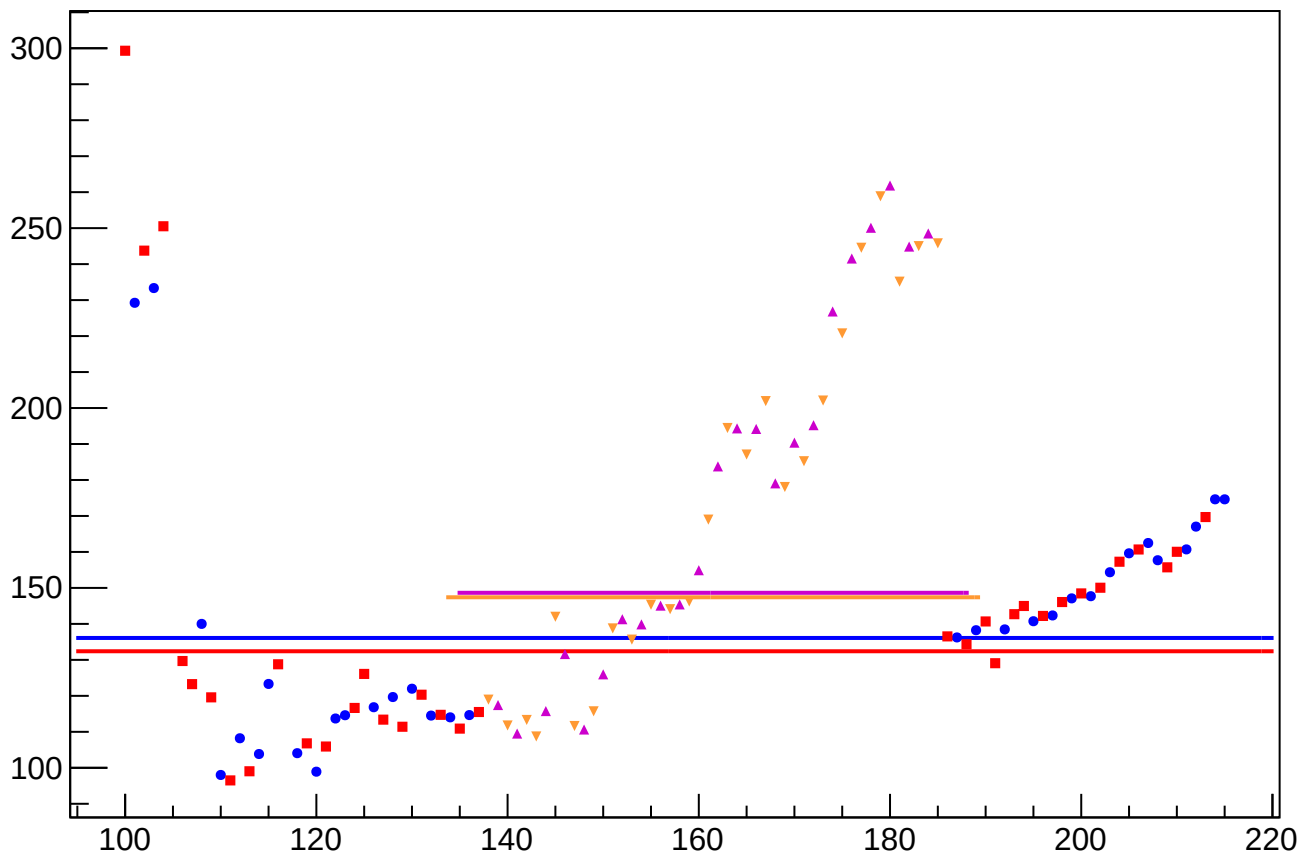
Left In: -6628.388 +/- 37.160

χ^2/NDF : 21738.0/22

All: -150.405 +/- 17.389

χ^2/NDF : 377648.1/111

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 136.091+/-0.024 χ^2/NDF : 1280307.2/31

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 132.394+/-0.023 χ^2/NDF : 1229837.0/33

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

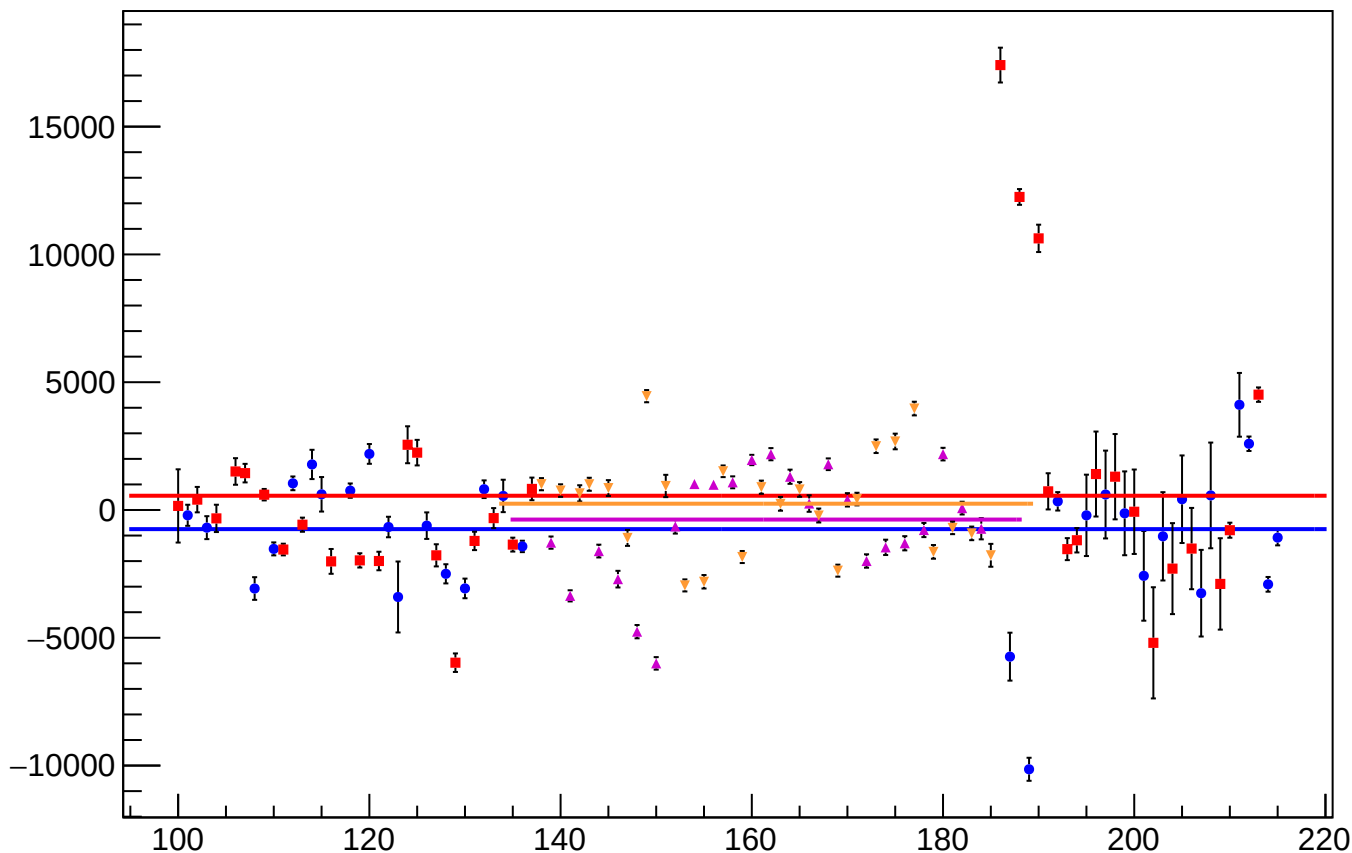
Right: 134.191+/-0.017 χ^2/NDF : 2522469.8/65

In: 141.767+/-0.018 χ^2/NDF : 3820811.1/54

Out: 139.238+/-0.017 χ^2/NDF : 3937420.1/58

All: 140.463+/-0.012 χ^2/NDF : 7768799.6/113

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -748.696 ± 75.051 $\chi^2/\text{NDF}: 978.2/31$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 557.681 ± 70.337 $\chi^2/\text{NDF}: 3398.4/33$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

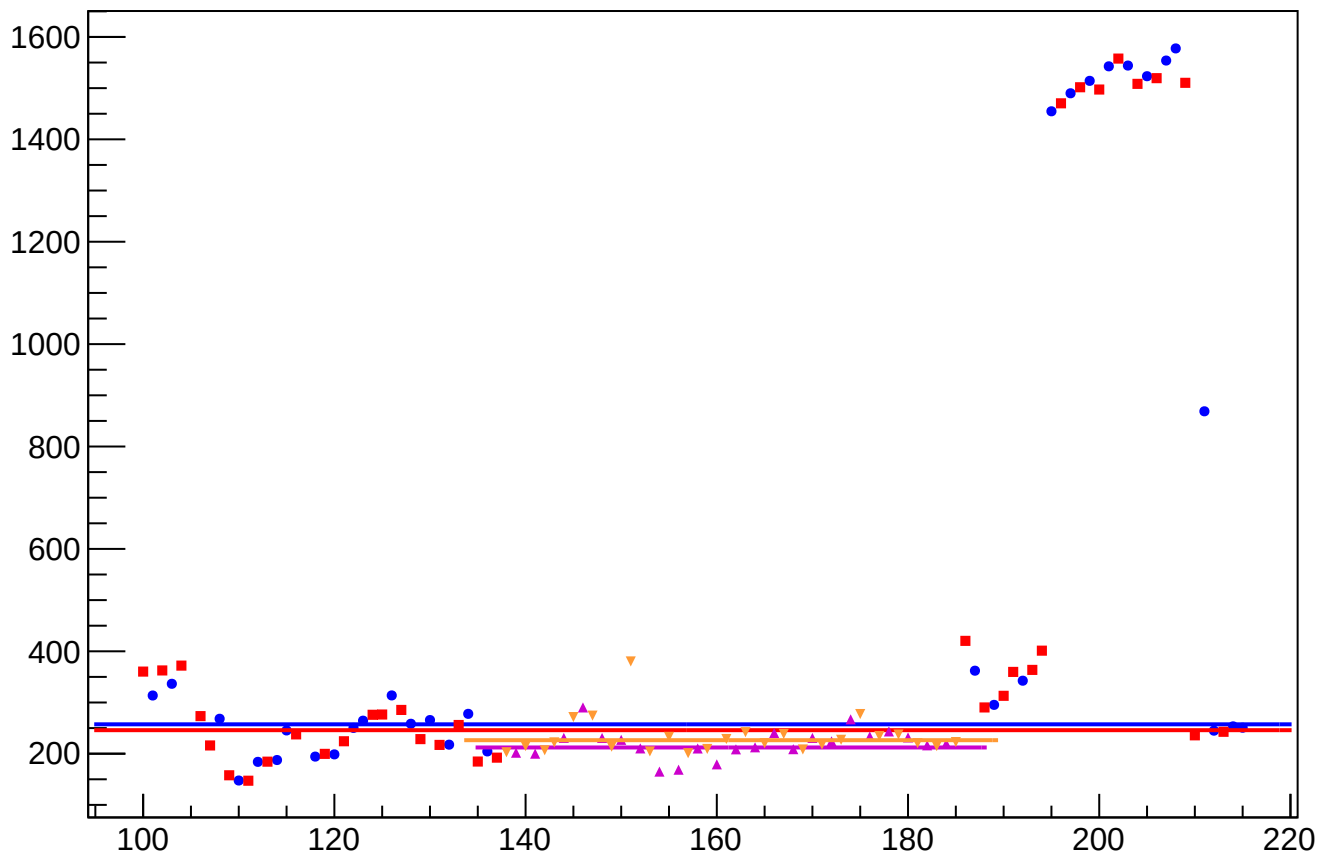
Right: -53.202 ± 51.321 $\chi^2/\text{NDF}: 4537.9/65$

In: -495.508 ± 42.683 $\chi^2/\text{NDF}: 2793.2/54$

Out: 360.285 ± 42.578 $\chi^2/\text{NDF}: 4765.7/58$

All: -66.555 ± 30.144 $\chi^2/\text{NDF}: 7760.4/113$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.373+/-0.053 χ^2/NDF : 10198042.4/31

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 245.932+/-0.050 χ^2/NDF : 9272612.5/33

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

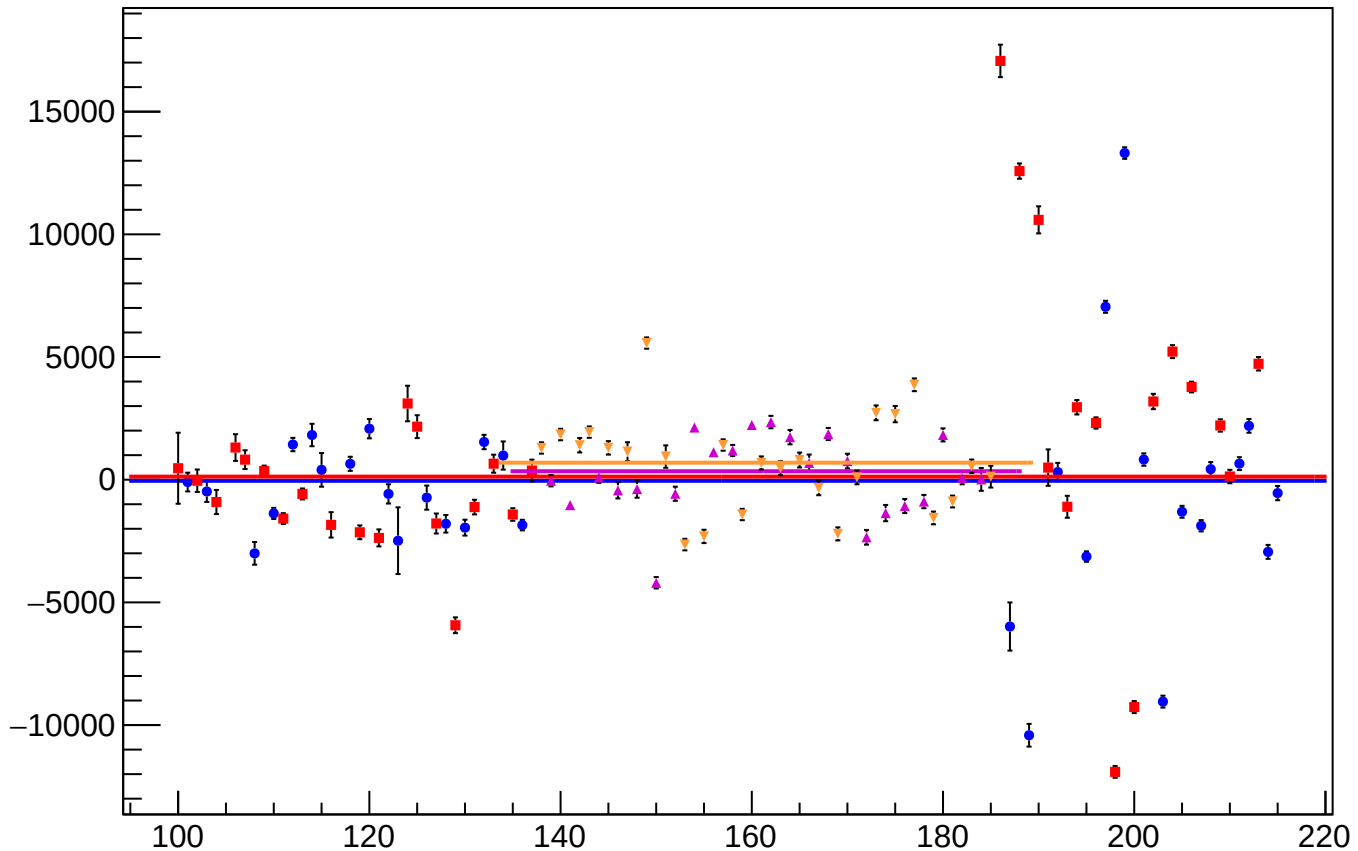
Right: 251.282+/-0.036 χ^2/NDF : 19495398.5/65

In: 226.774+/-0.030 χ^2/NDF : 11281140.7/54

Out: 233.542+/-0.030 χ^2/NDF : 9892337.1/58

All: 230.166+/-0.021 χ^2/NDF : 21198682.5/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -44.368 $\pm$ 54.086 χ^2/NDF : 6784.1/31

Left Out: 694.326 $\pm$ 54.246 χ^2/NDF :1422.1/24

Right Out: 125.426 $\pm$ 54.213 χ^2/NDF : 8506.8/33

Left In: 344.578 $\pm$ 52.954 χ^2/NDF :985.0/22

Left: 515.236 $\pm$ 37.893 χ^2/NDF : 2428.4/47

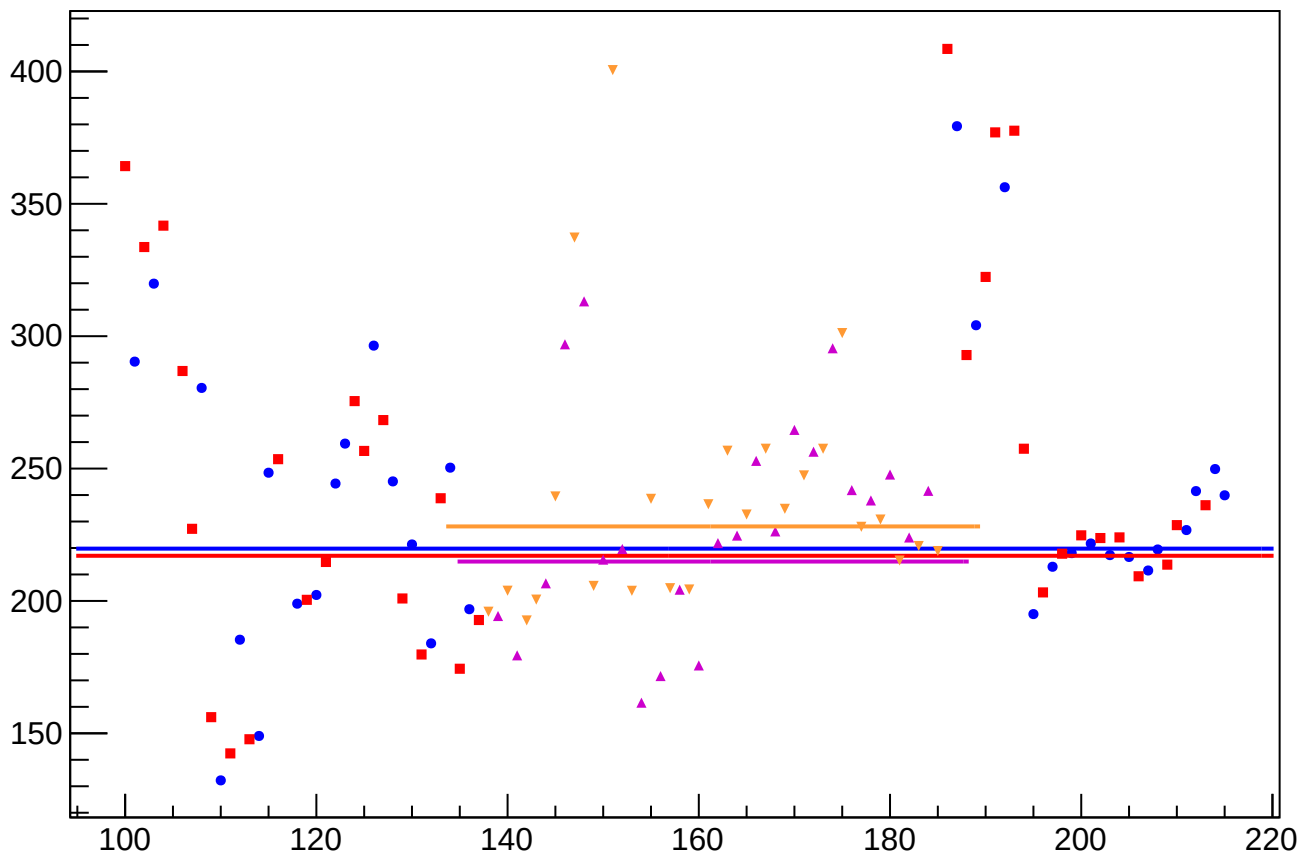
Right: 40.329 $\pm$ 38.289 χ^2/NDF : 15295.8/65

In: 154.216 $\pm$ 37.838 χ^2/NDF :7795.6/54

Out: 409.699 $\pm$ 38.346 χ^2/NDF :9983.9/58

All: 280.253 $\pm$ 26.933 χ^2/NDF : 17802.0/113

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.759 ± 0.038 $\chi^2/\text{NDF}: 1197179.5/31$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 217.062 ± 0.038 $\chi^2/\text{NDF}: 1835976.3/33$

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: 218.413 ± 0.027 $\chi^2/\text{NDF}: 3035637.2/65$

In: 217.267 ± 0.027 $\chi^2/\text{NDF}: 2243004.7/54$

Out: 222.599 ± 0.027 $\chi^2/\text{NDF}: 2706137.5/58$

All: 219.898 ± 0.019 $\chi^2/\text{NDF}: 4968736.3/113$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

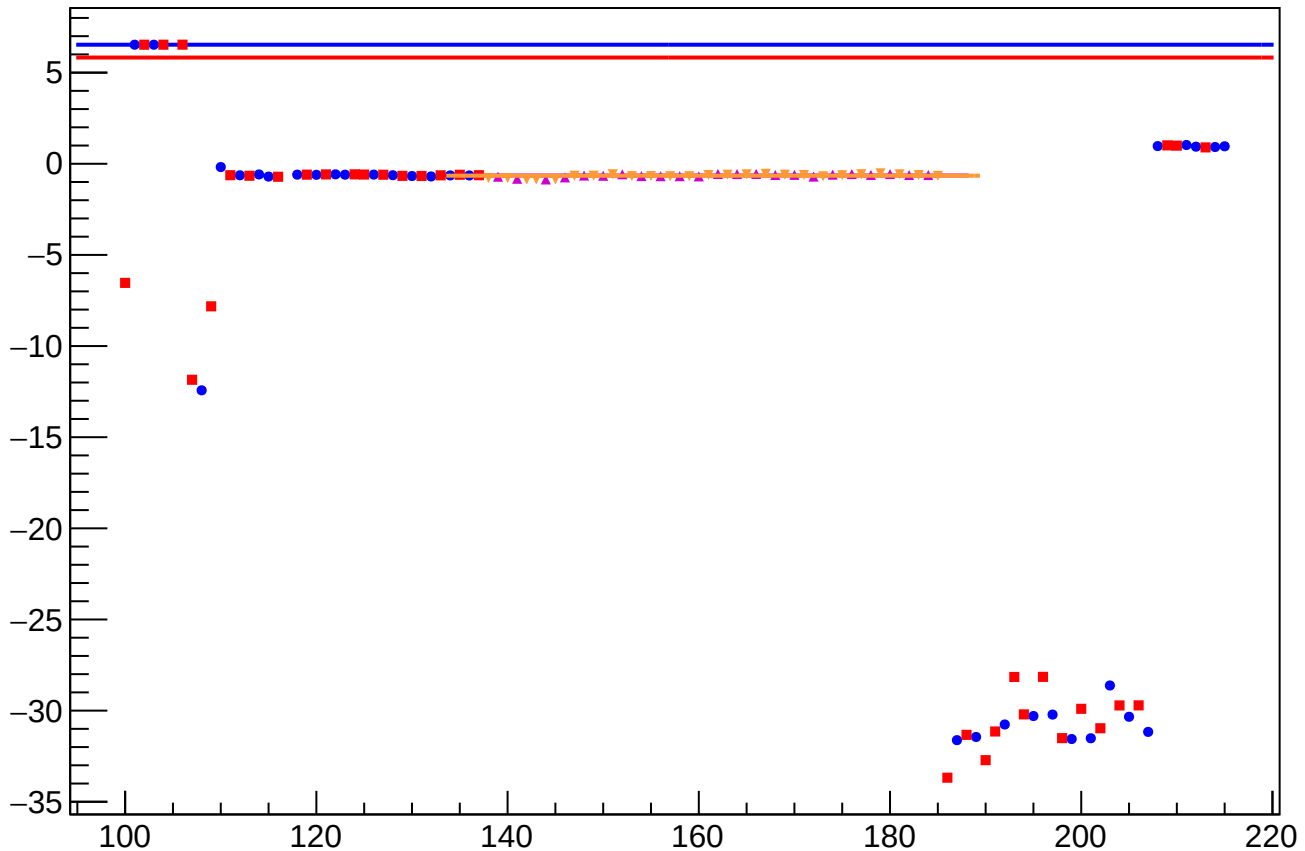
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 137004604088.1/31

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755966309767874.5/33

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

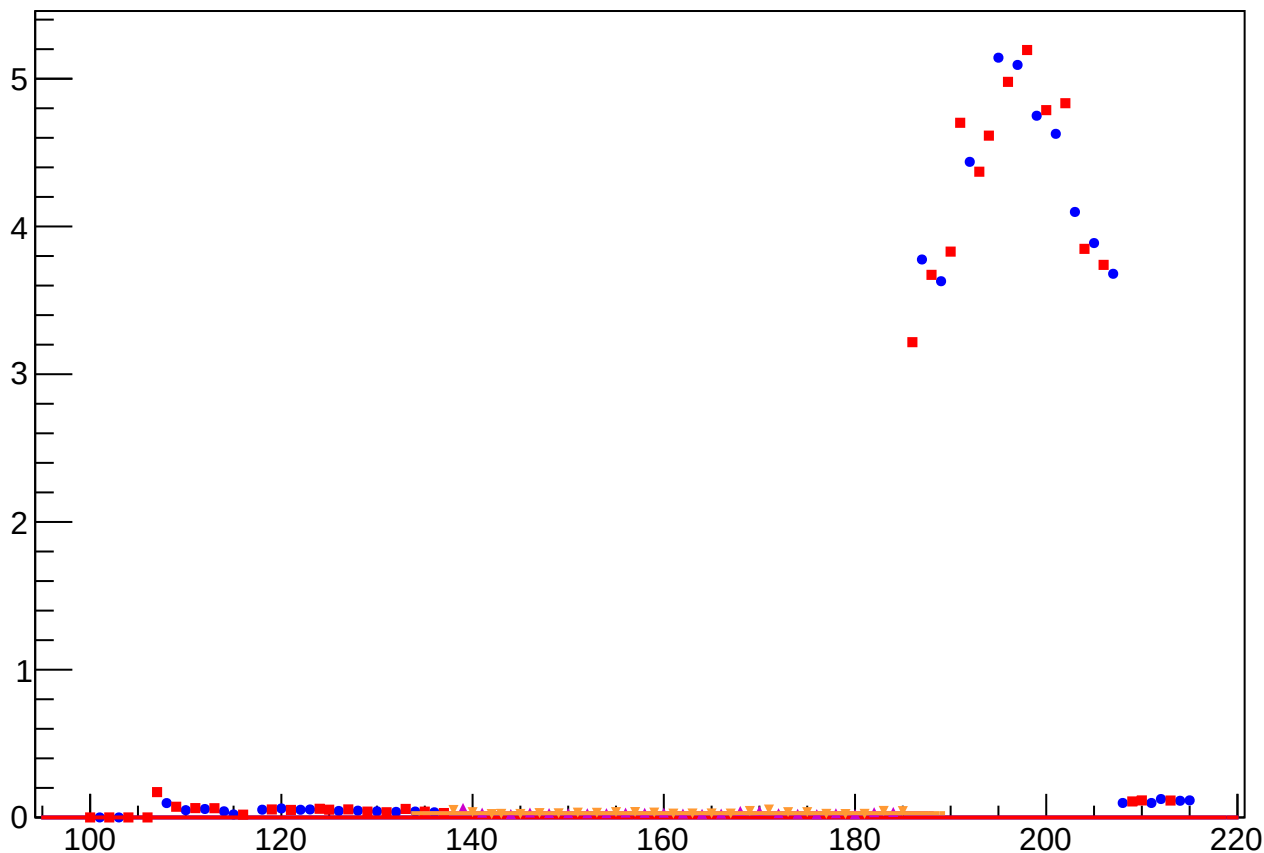
Right: 6.155+/-0.000 χ^2/NDF : 776106649881177.4/50

In: 6.530+/-0.000 χ^2/NDF : 971118249302.6/54

Out: 5.826+/-0.000 χ^2/NDF : 756677324647255.0/55

All: 6.153+/-0.000 χ^2/NDF : 77764007525041.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29577250.3/31

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29025937.5/33

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

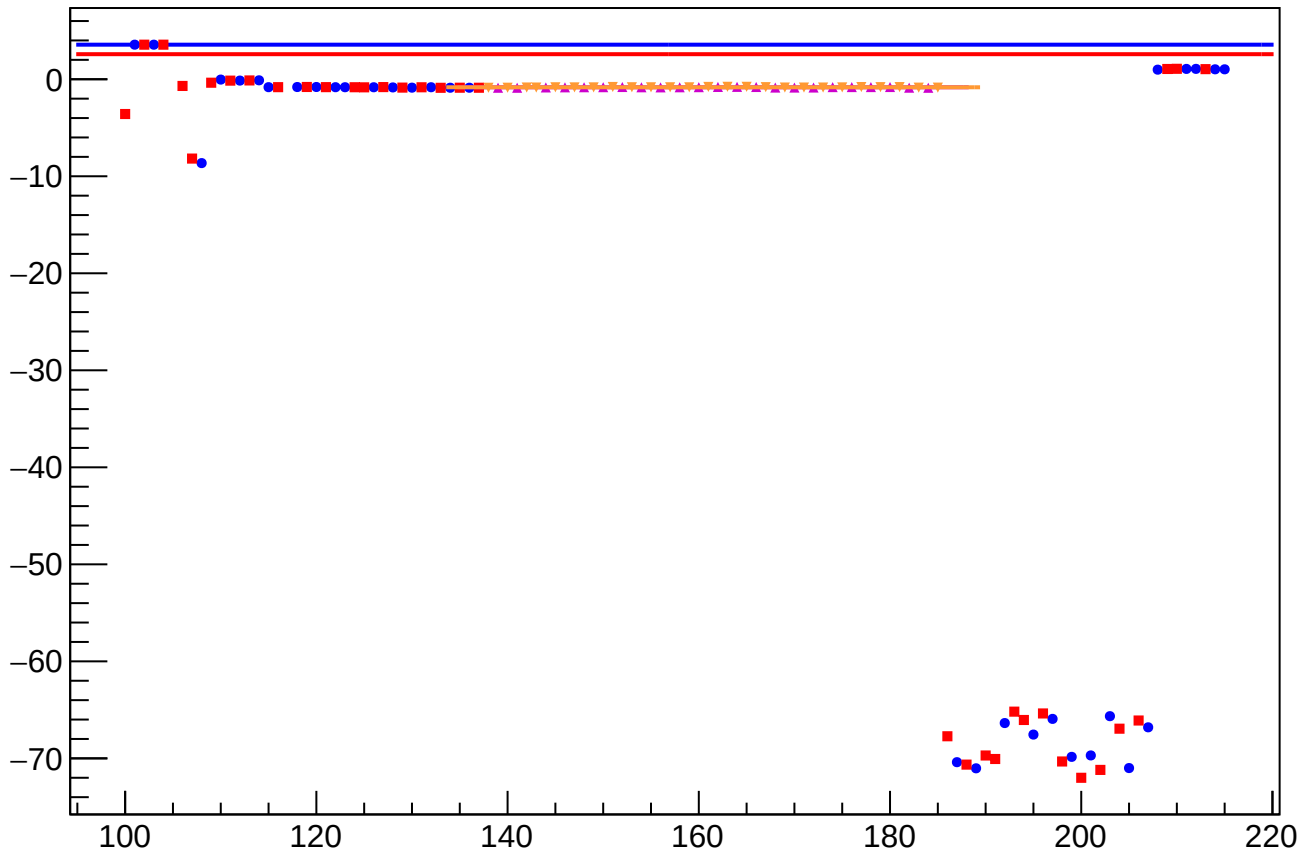
Right: 0.000+/-0.000 χ^2/NDF : 58603496.4/65

In: 0.000+/-0.000 χ^2/NDF :57754264.9/54

Out: 0.000+/-0.000 χ^2/NDF :58993547.7/58

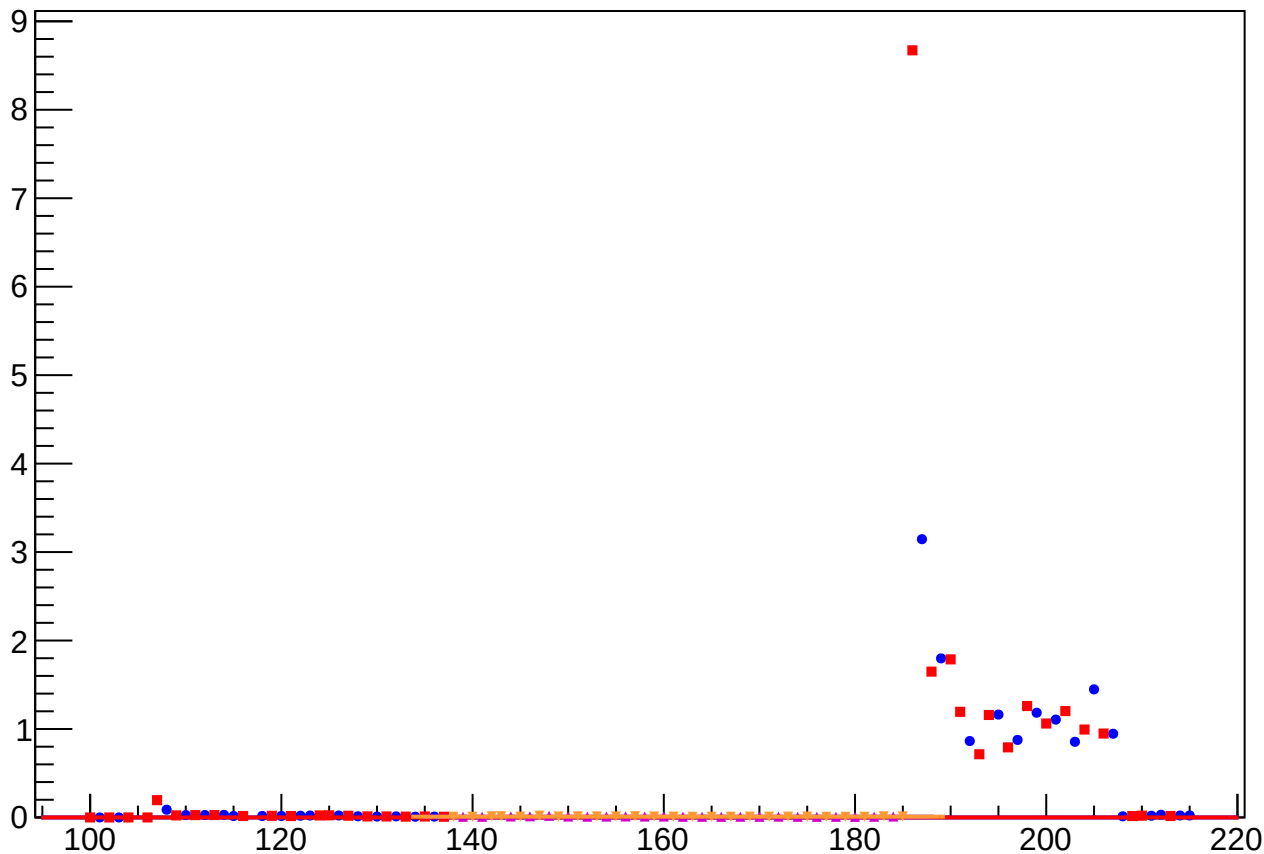
All: 0.000+/-0.000 χ^2/NDF : 116748317.2/113

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 553856763080.9/31	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382363804529021.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253545808410849.0/33	In: 3.560+/-0.000	χ^2/NDF : 4234291942335.3/54
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255776663058297.5
		All: 3.038+/-0.000	χ^2/NDF : 13880882108002.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26952182.6/31

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26923893.8/33

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

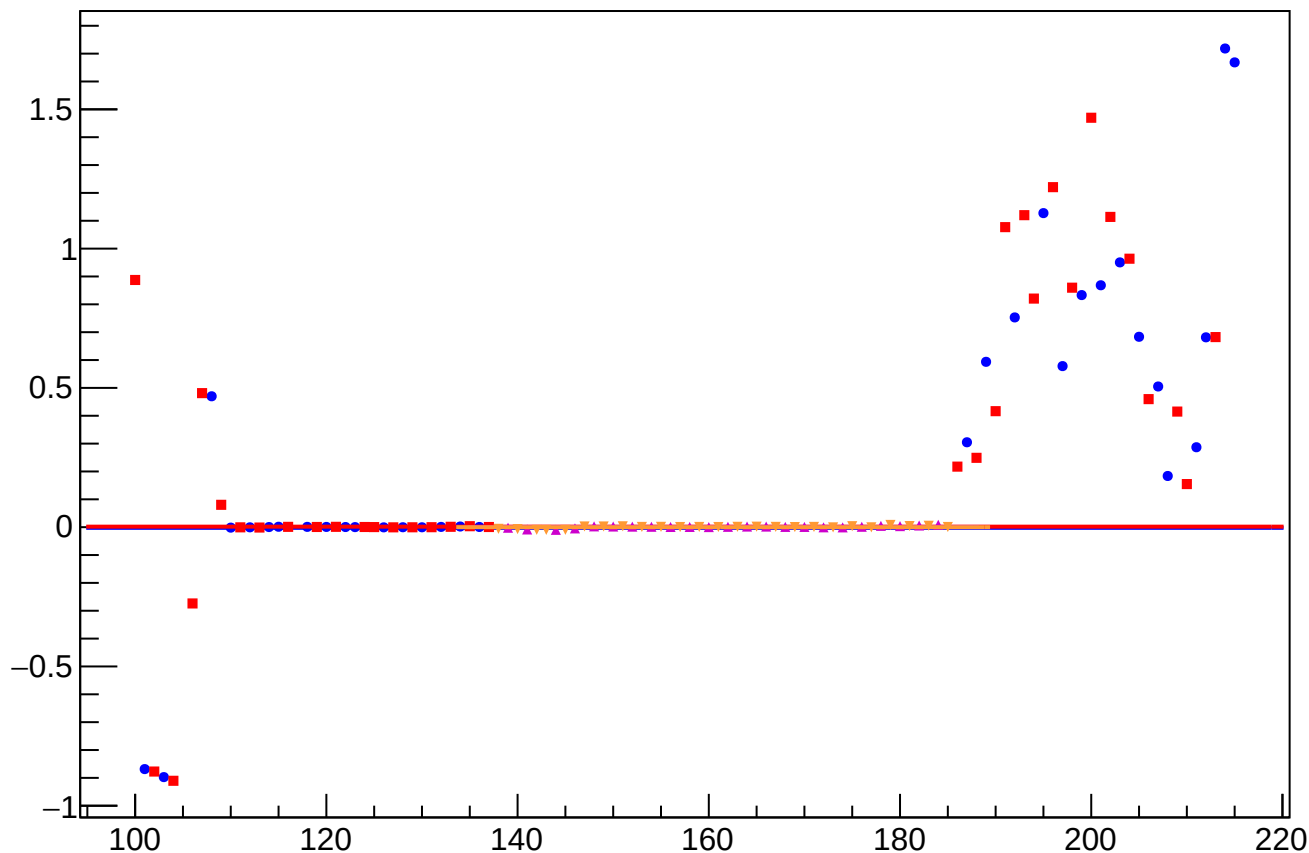
Right: 0.000+/-0.000 χ^2/NDF : 53876447.9/65

In: 0.000+/-0.000 χ^2/NDF :56745592.8/54

Out: 0.000+/-0.000 χ^2/NDF :58439338.2/58

All: 0.000+/-0.000 χ^2/NDF : 115185868.6/113

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797189528.9/31

Left: 0.000 ± 0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

Right: -0.000 ± 0.000 χ^2/NDF : 12855071543.1/65

Right Out: 0.002 ± 0.000

χ^2/NDF : 3043735807.3/33

In: -0.000 ± 0.000 χ^2/NDF : 9910094015.9/54

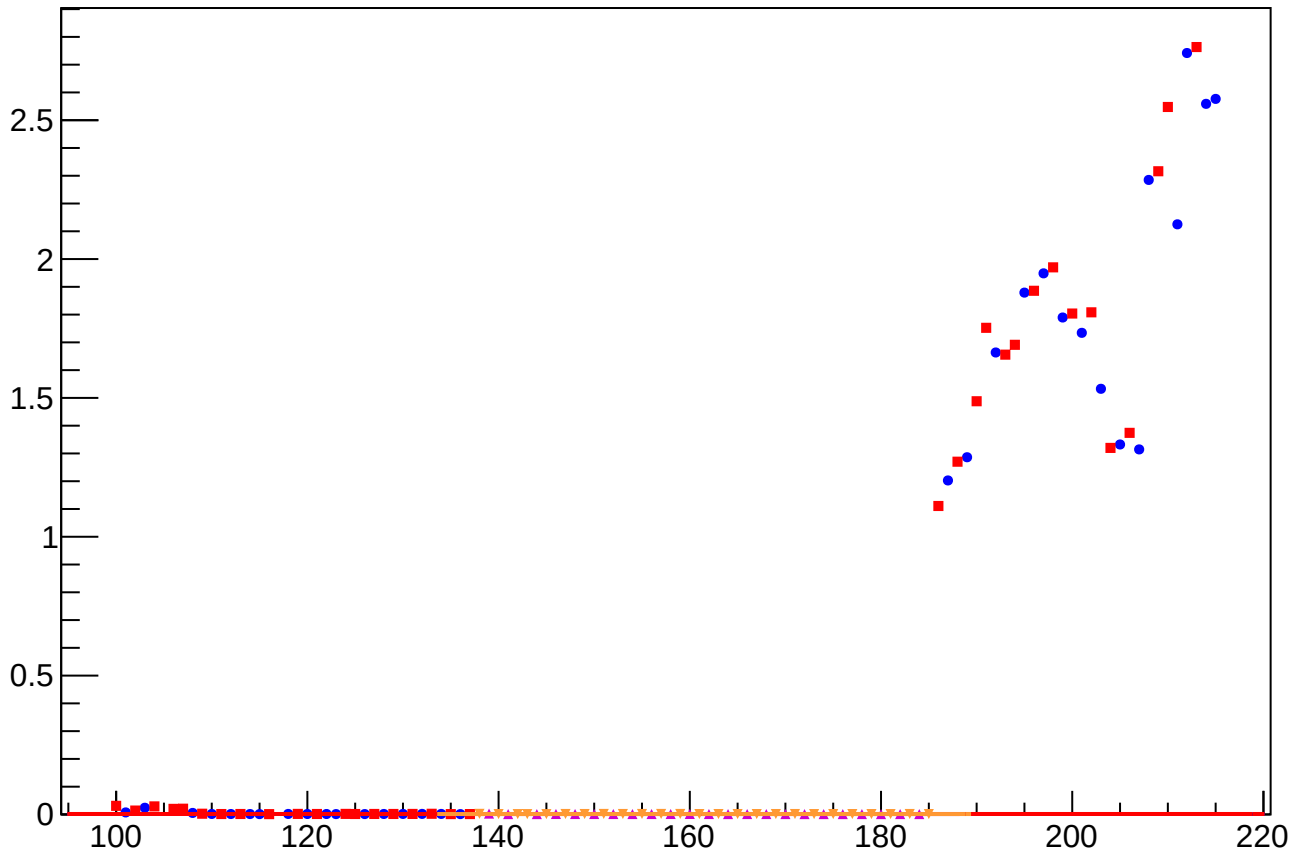
Out: 0.000 ± 0.000 χ^2/NDF : 3199974280.9/58

Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

All: 0.000 ± 0.000 χ^2/NDF : 13110439683.3/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22631303.0/31

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 22696840.0/33

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

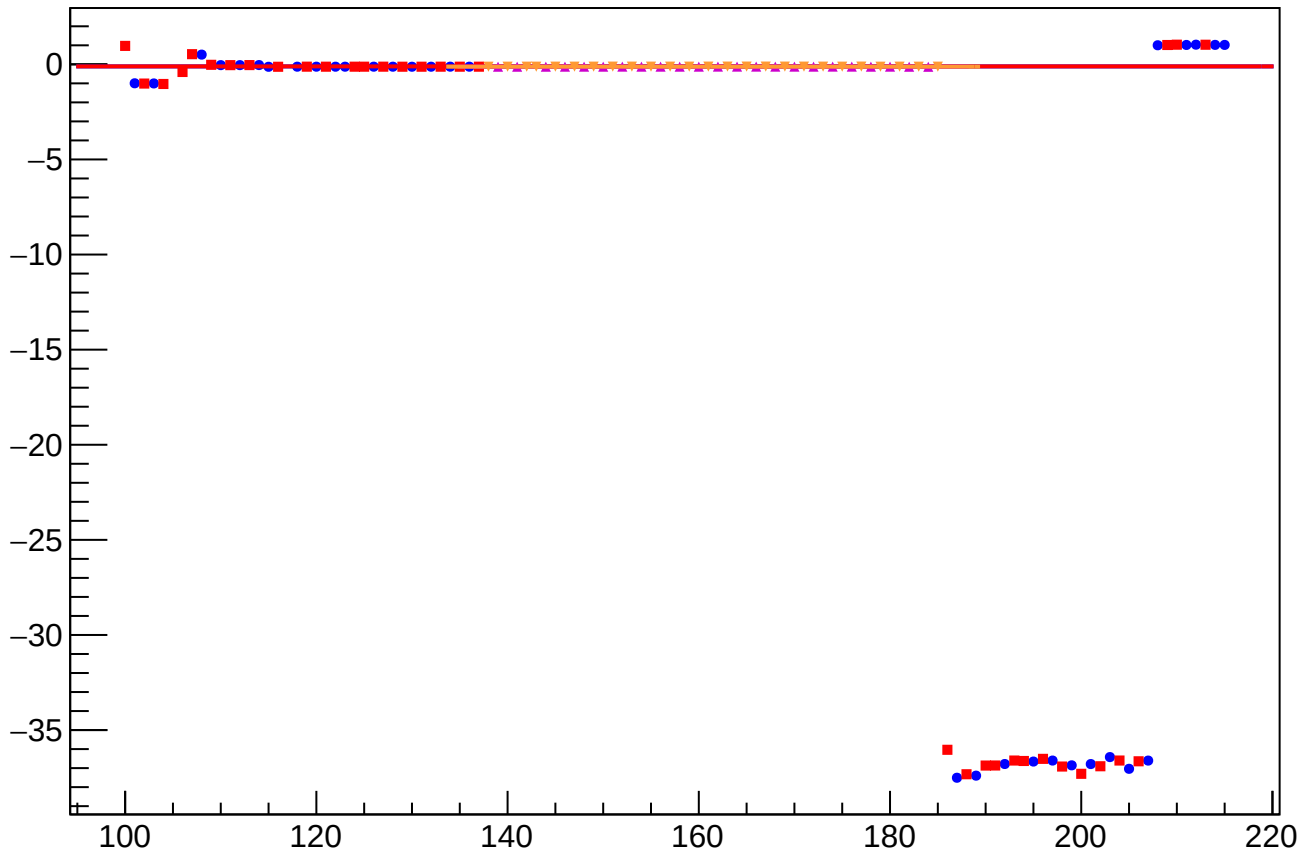
Right: 0.002+/-0.000 χ^2/NDF : 45336045.6/65

In: 0.002+/-0.000 χ^2/NDF :23344408.7/54

Out: 0.002+/-0.000 χ^2/NDF :23373204.1/58

All: 0.002+/-0.000 χ^2/NDF : 46718255.0/113

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.109+/-0.000 χ^2/NDF : 92062978438.5/31

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.107+/-0.000 χ^2/NDF : 87770038442.9/33

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

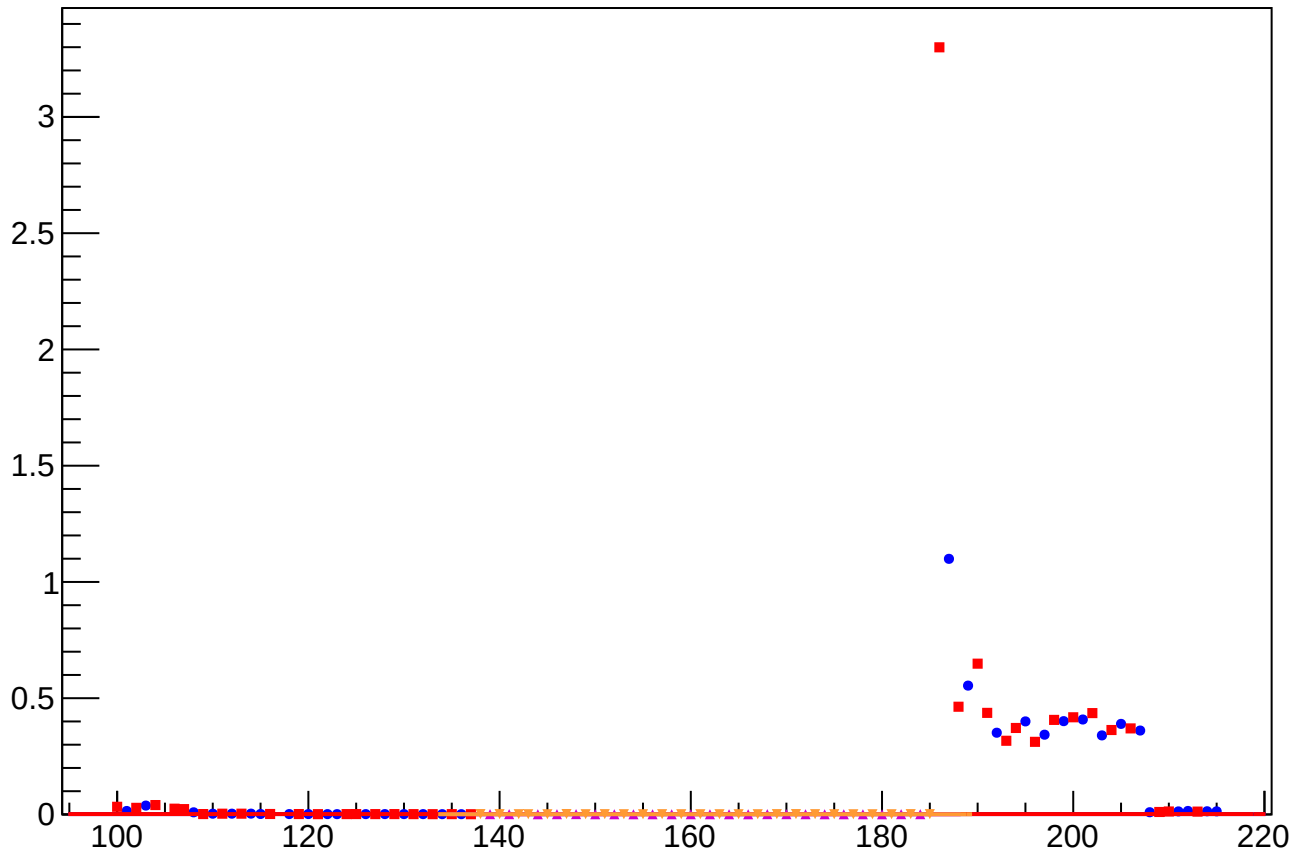
Right: -0.108+/-0.000 χ^2/NDF : 179834855345.1/65

In: -0.120+/-0.000 χ^2/NDF : 92367575270.9/54

Out: -0.120+/-0.000 χ^2/NDF : 88151514867.1/58

All: -0.120+/-0.000 χ^2/NDF : 180519158515.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 21265493.7/31

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21616744.8/33

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

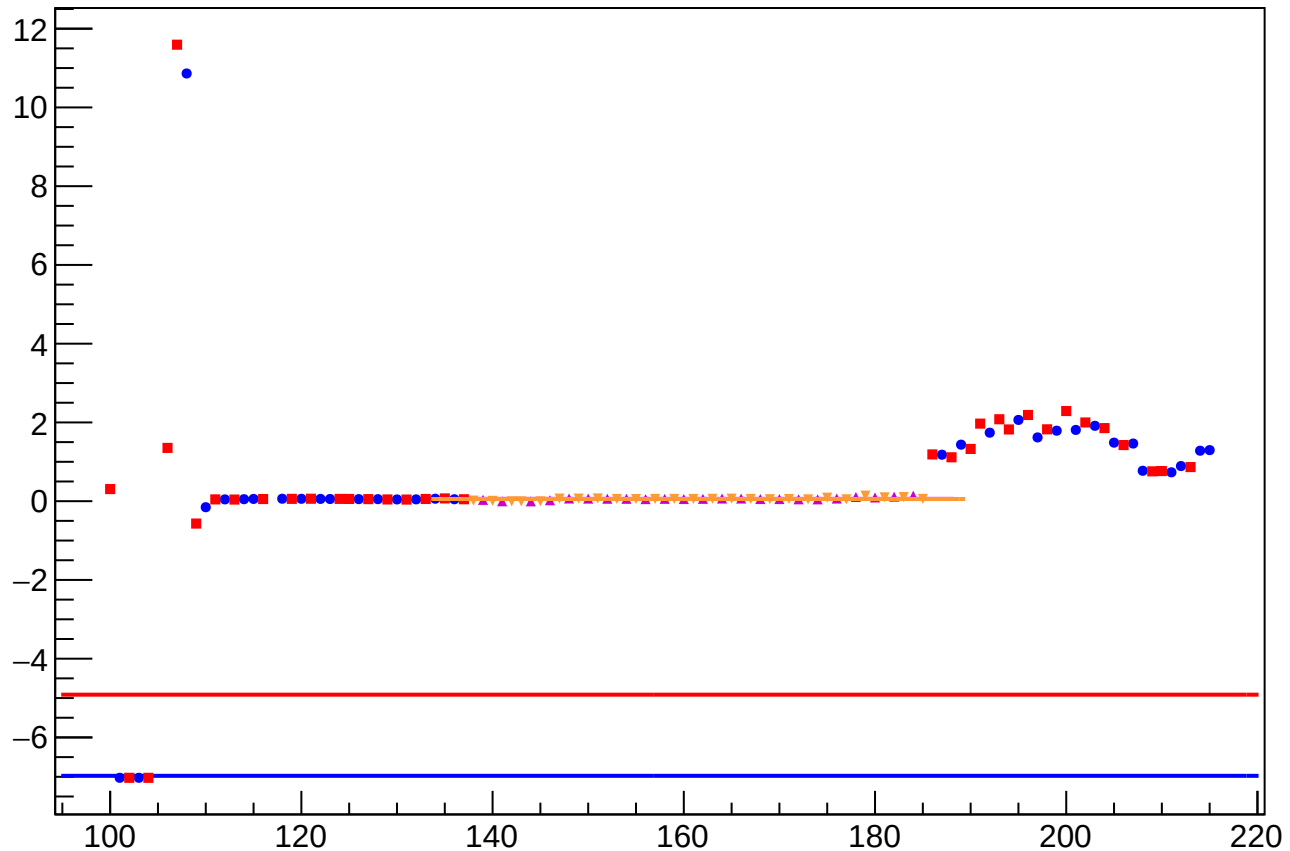
Right: 0.002+/-0.000 χ^2/NDF : 42886011.0/65

In: 0.001+/-0.000 χ^2/NDF :23929793.4/54

Out: 0.001+/-0.000 χ^2/NDF :24513798.7/58

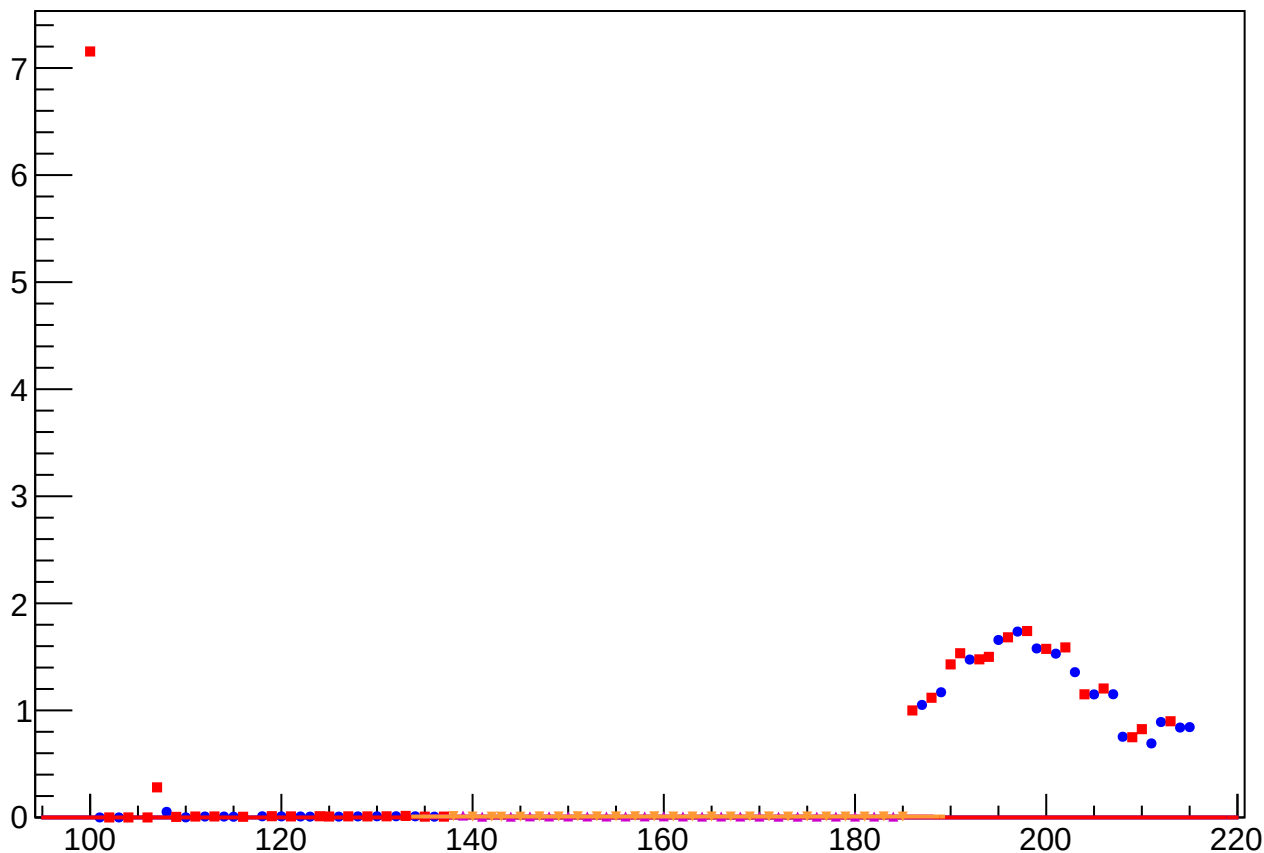
All: 0.001+/-0.000 χ^2/NDF : 48448044.5/113

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763062881104.3/31$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430304034198169.6$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348816745207.2/33$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605584451327.4/54$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175501767296.6$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435819919553$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28961304.6/31

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 28458966.4/33

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

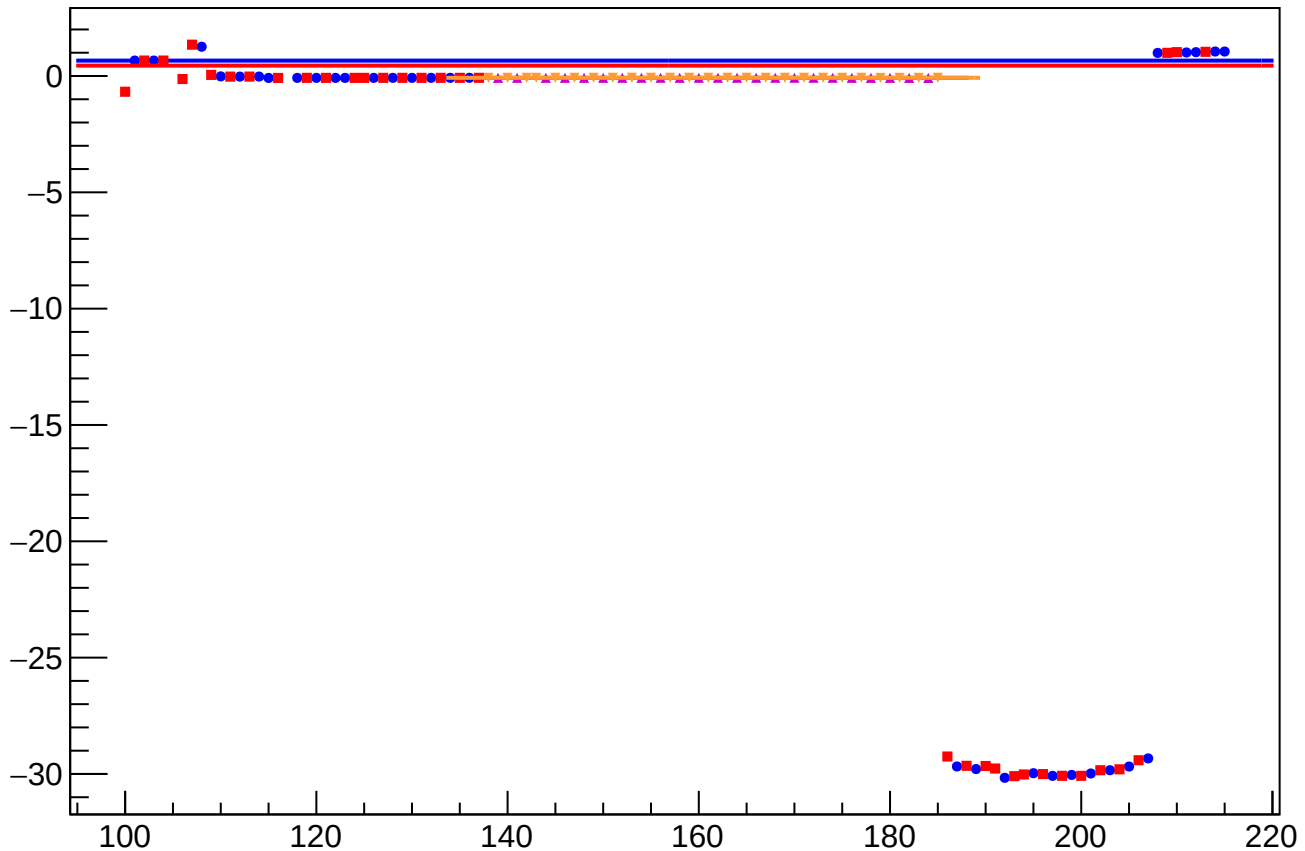
Right: 0.000+/-0.000 χ^2/NDF : 57420592.1/65

In: 0.000+/-0.000 χ^2/NDF : 56596669.3/54

Out: 0.000+/-0.000 χ^2/NDF : 57486111.7/58

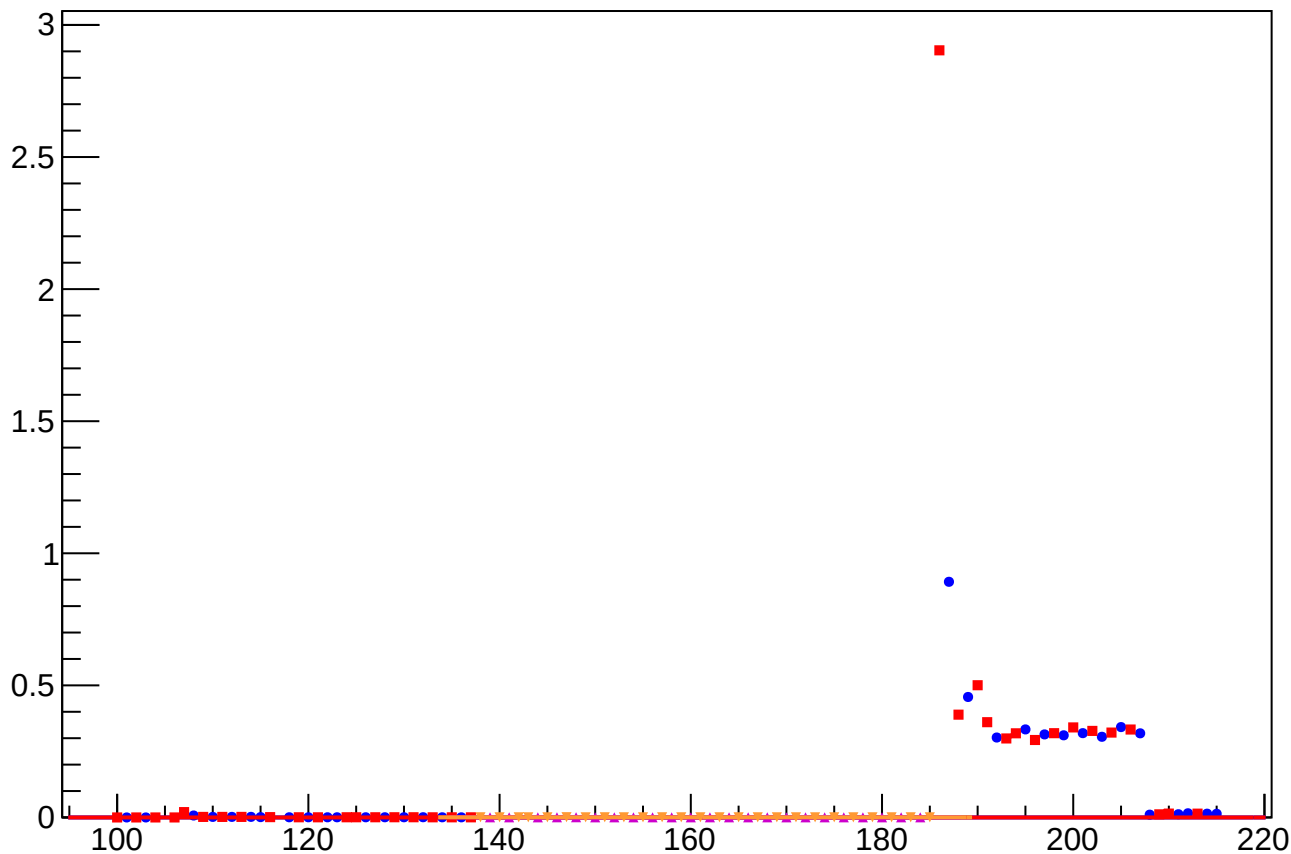
All: 0.000+/-0.000 χ^2/NDF : 114083289.3/113

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5648377896693.6/31	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474060776521888.1/47
Right Out: 0.446+/-0.000	χ^2/NDF : 405482589419391.6/33	In: 0.647+/-0.000	χ^2/NDF : 33908525559928.0/54
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420677290648820.8/54
		All: 0.537+/-0.000	χ^2/NDF : 51611110531716.0/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30358126.2/31

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29028855.2/33

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

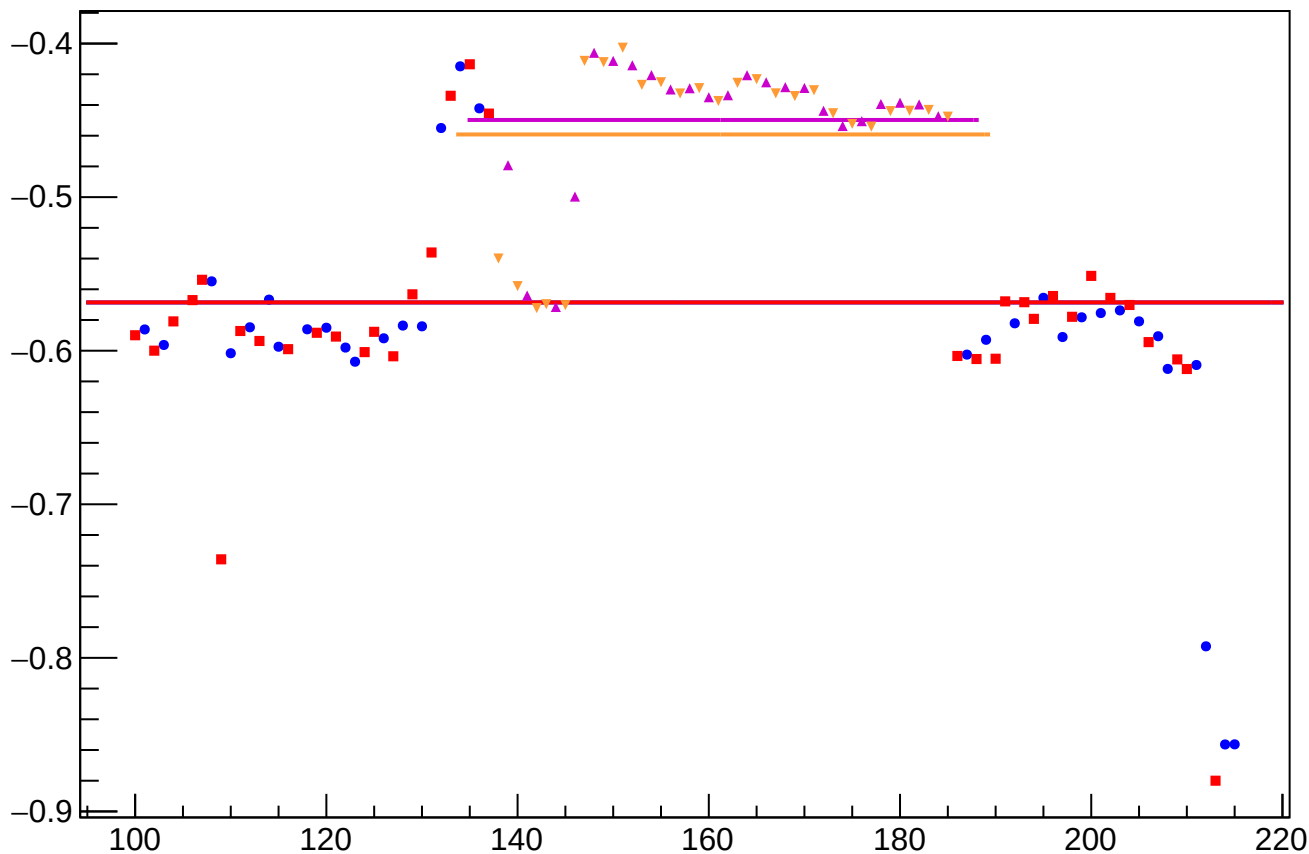
Right: 0.000+/-0.000 χ^2/NDF : 59387005.0/65

In: 0.000+/-0.000 χ^2/NDF :61325175.7/54

Out: 0.000+/-0.000 χ^2/NDF :61736047.8/58

All: 0.000+/-0.000 χ^2/NDF : 123061719.9/113

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.569 $\pm$ 0.000 χ^2/NDF : 105007659.3/31

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.569 $\pm$ 0.000 χ^2/NDF : 88486301.6/33

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

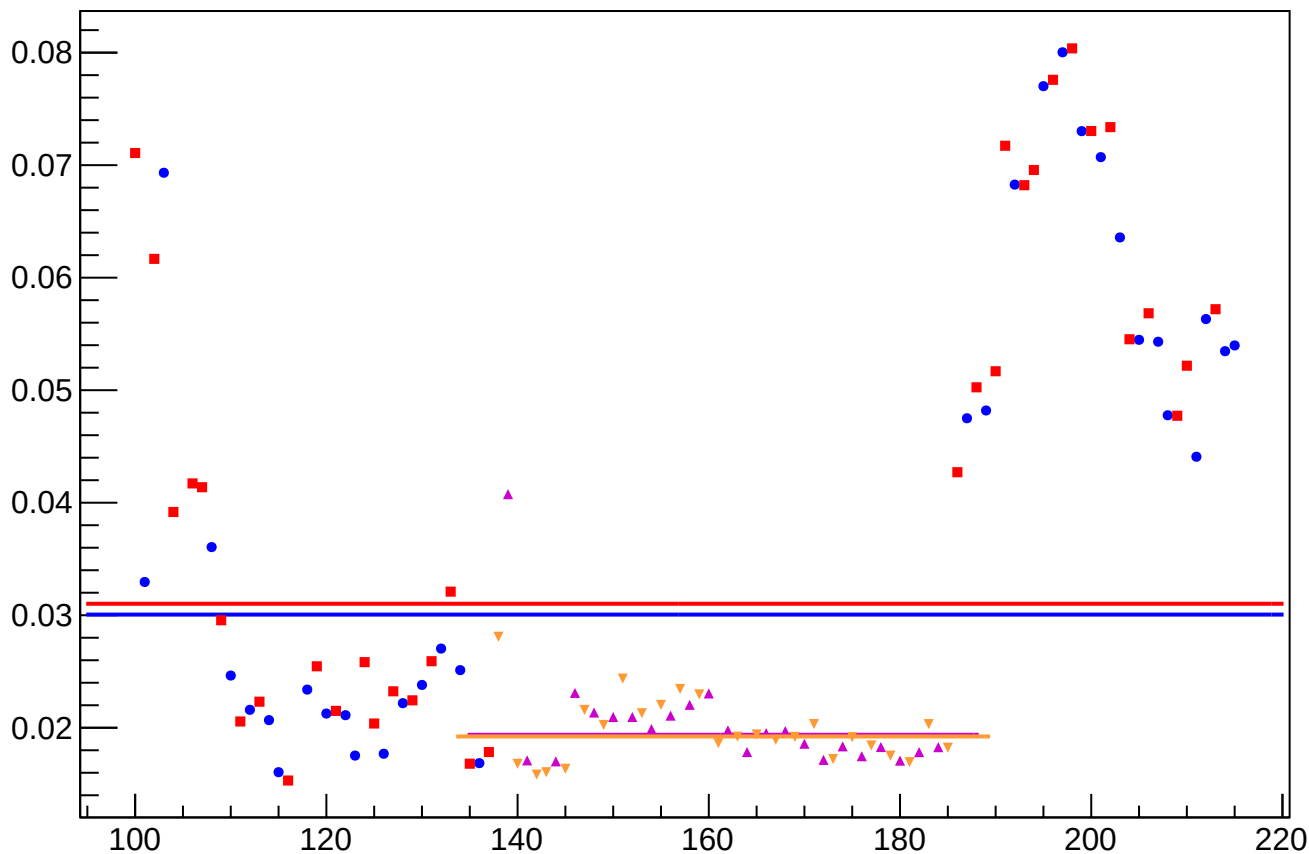
Right: -0.569 $\pm$ 0.000 χ^2/NDF : 193493979.9/65

In: -0.481 $\pm$ 0.000 χ^2/NDF : 320778108.6/54

Out: -0.485 $\pm$ 0.000 χ^2/NDF : 317170293.0/58

All: -0.483 $\pm$ 0.000 χ^2/NDF : 638392130.4/11

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7502578.5/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501253.7/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7184859.2/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:656155.9/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1158298.6/47

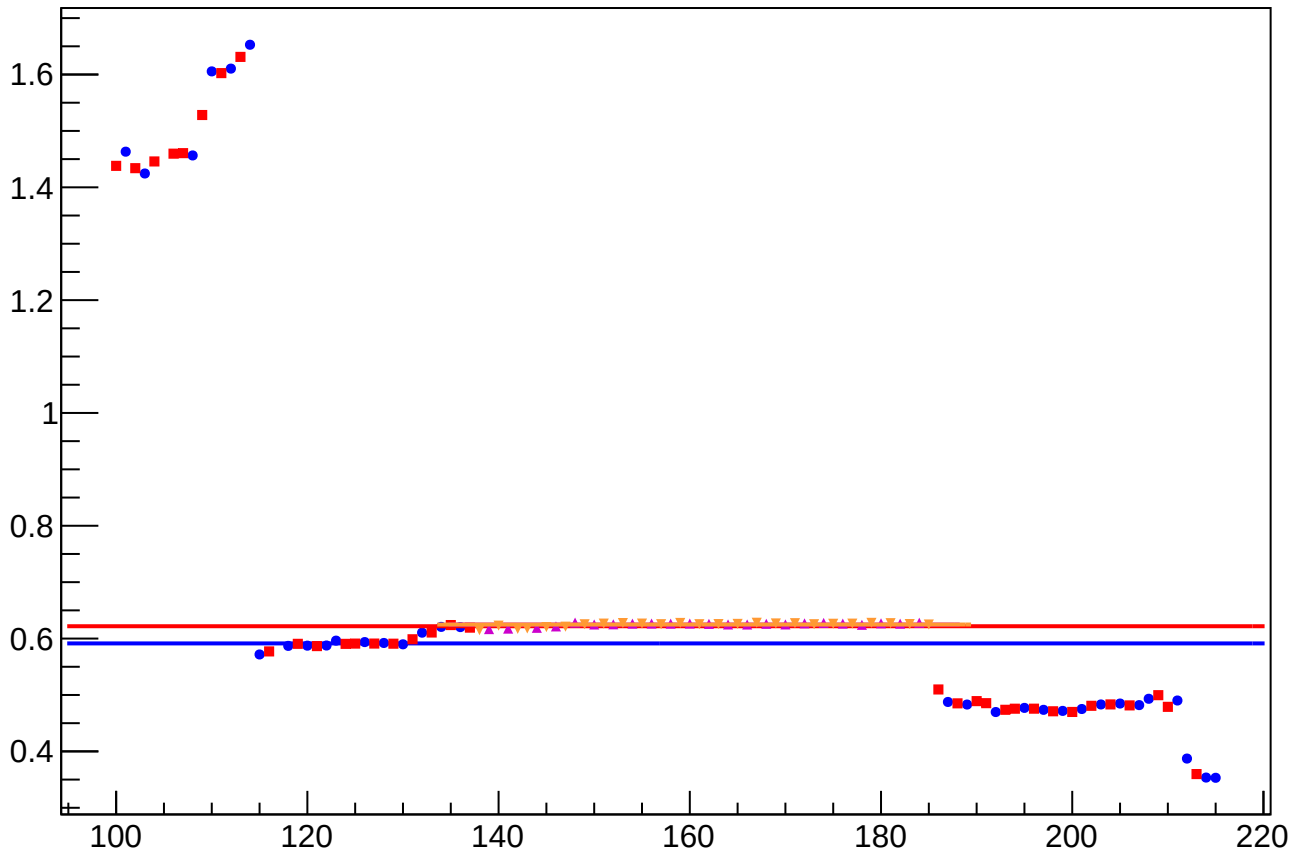
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 14699520.0/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10414061.1/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:10359478.9/58

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 20774837.2/113

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.591 $\pm$ 0.000 χ^2 /NDF: 5490821464.7/31

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.622 $\pm$ 0.000 χ^2 /NDF: 6321066117.3/33

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

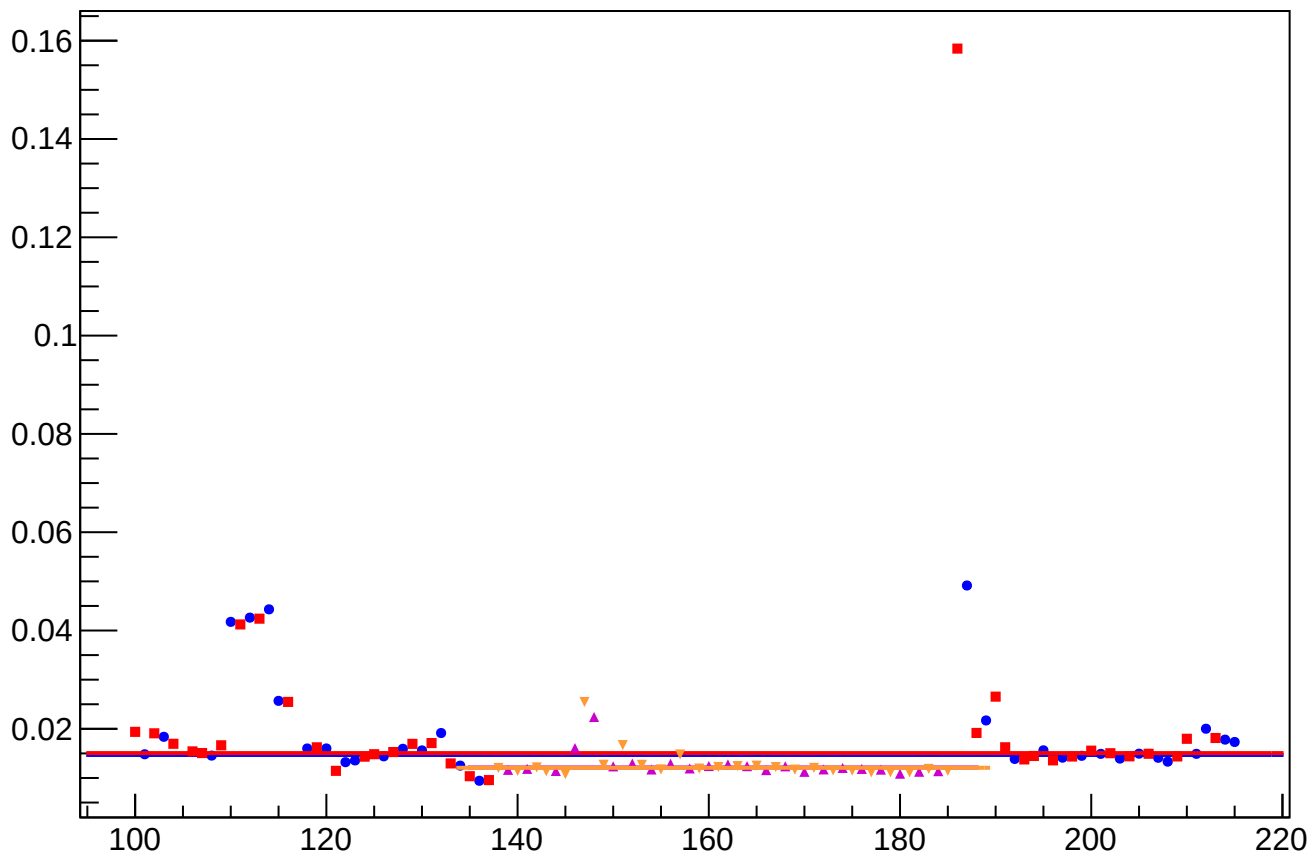
Right: 0.606 $\pm$ 0.000 χ^2 /NDF: 11844321117.5/65

In: 0.612 $\pm$ 0.000 χ^2 /NDF:5541481714.2/54

Out: 0.624 $\pm$ 0.000 χ^2 /NDF:6322905044.3/58

All: 0.618 $\pm$ 0.000 χ^2 /NDF: 11877823998.6/117

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1848945.0/31

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2156935.1/33

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488249.4/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146144.5/47

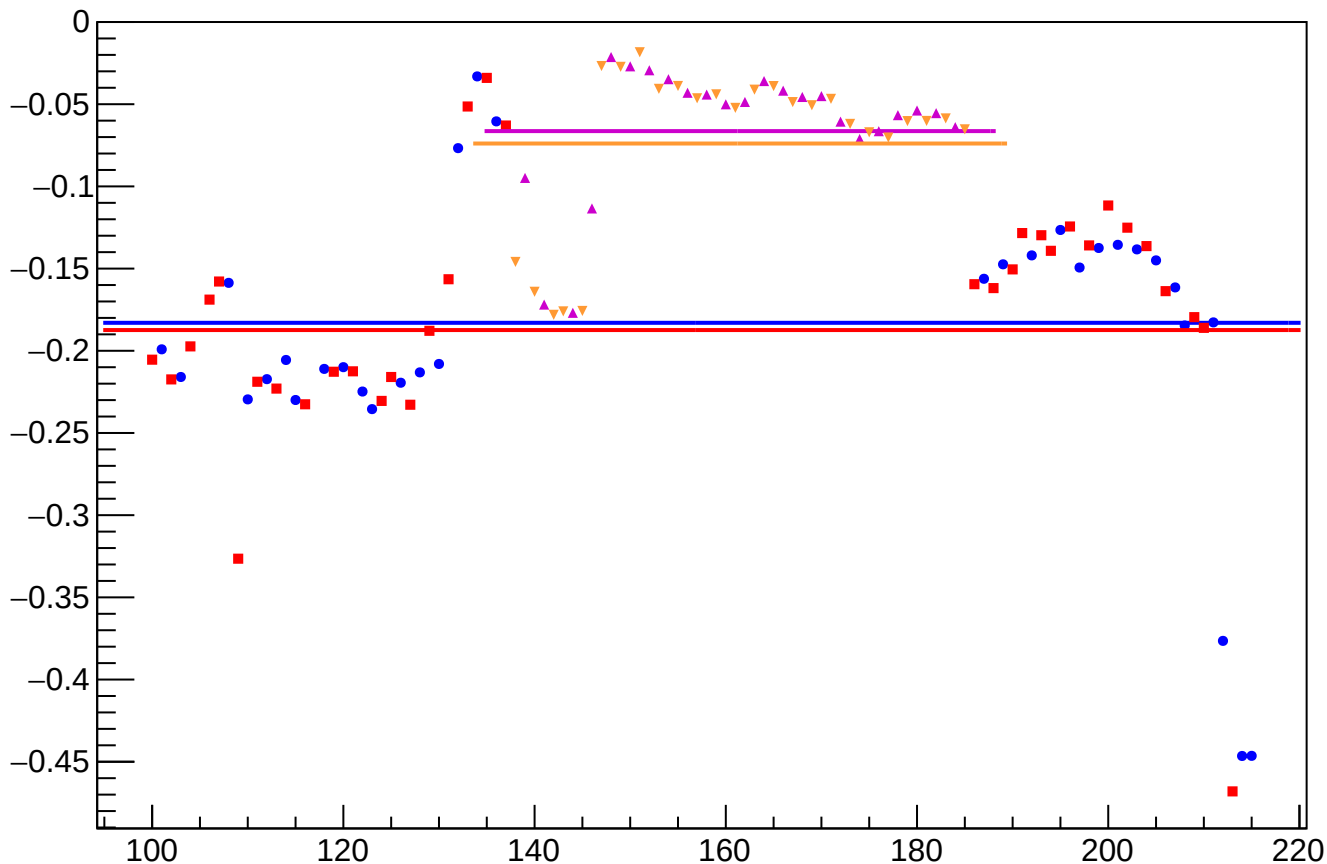
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4015958.2/65

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2912814.5/54

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3589636.7/58

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6502504.8/113

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.183+/-0.000 χ^2/NDF : 119823010.0/31

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.187+/-0.000 χ^2/NDF : 106124003.8/33

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

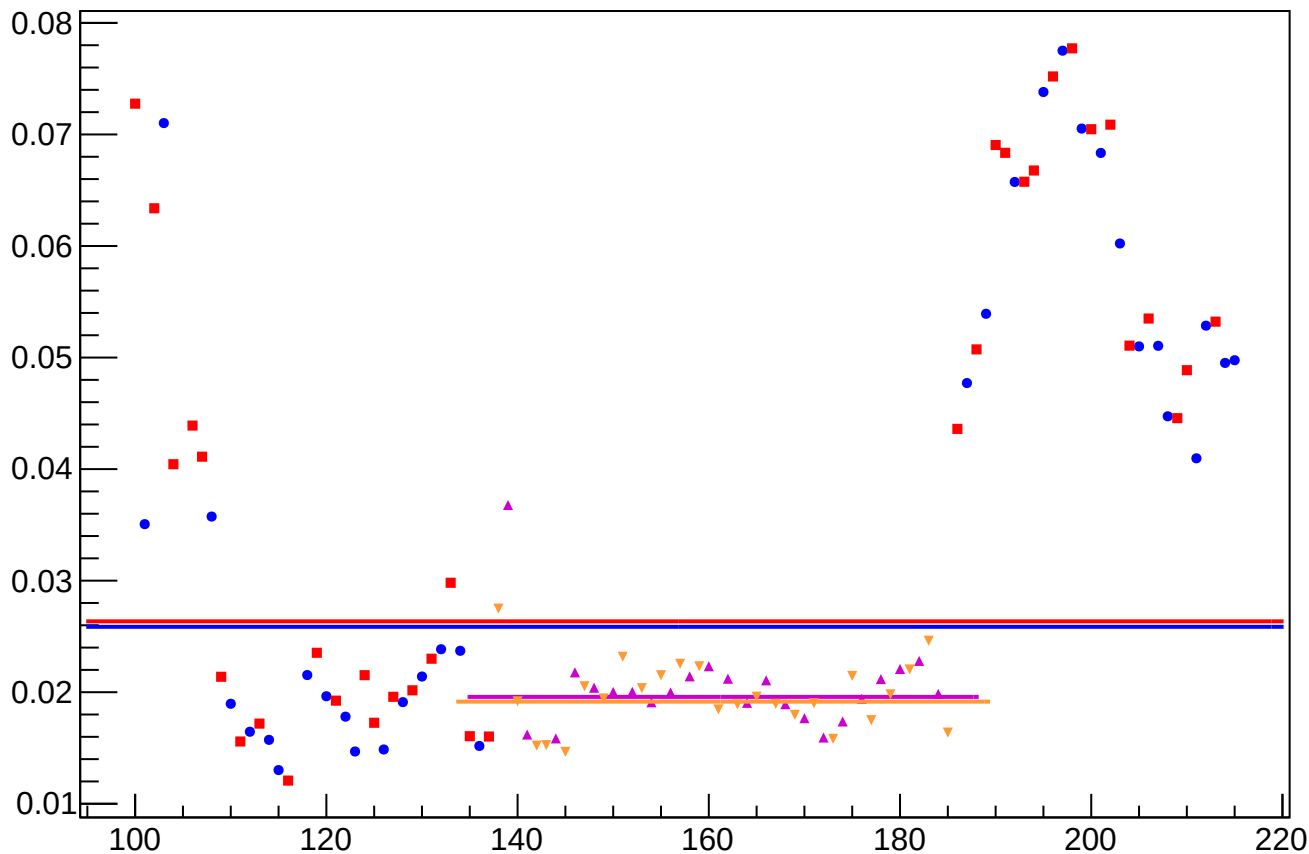
Right: -0.185+/-0.000 χ^2/NDF : 226110182.6/65

In: -0.103+/-0.000 χ^2/NDF : 356462244.4/54

Out: -0.106+/-0.000 χ^2/NDF : 364836443.7/58

All: -0.105+/-0.000 χ^2/NDF : 721567441.2/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2/NDF : 8789078.4/31

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 641027.3/24

Right Out: 0.026 $\pm$ 0.000 χ^2/NDF : 8765518.7/33

Left In: 0.020 $\pm$ 0.000 χ^2/NDF : 651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1299461.3/47

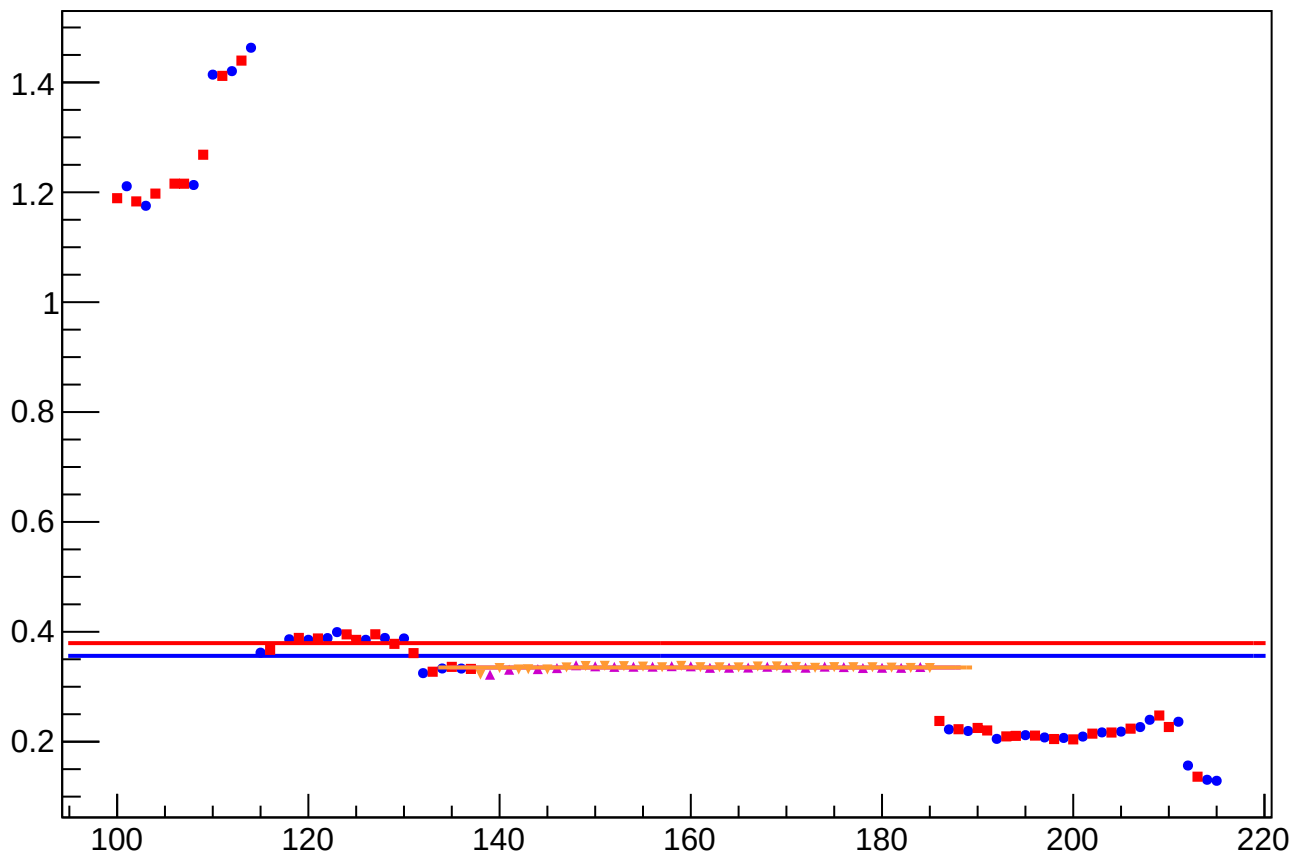
Right: 0.026 $\pm$ 0.000 χ^2/NDF : 17558610.3/65

In: 0.022 $\pm$ 0.000 χ^2/NDF : 10371450.6/54

Out: 0.021 $\pm$ 0.000 χ^2/NDF : 10620452.4/58

All: 0.021 $\pm$ 0.000 χ^2/NDF : 20999071.4/113

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.356+/-0.000 χ^2/NDF : 7930449959.1/31

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.379+/-0.000 χ^2/NDF : 8819291176.3/33

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

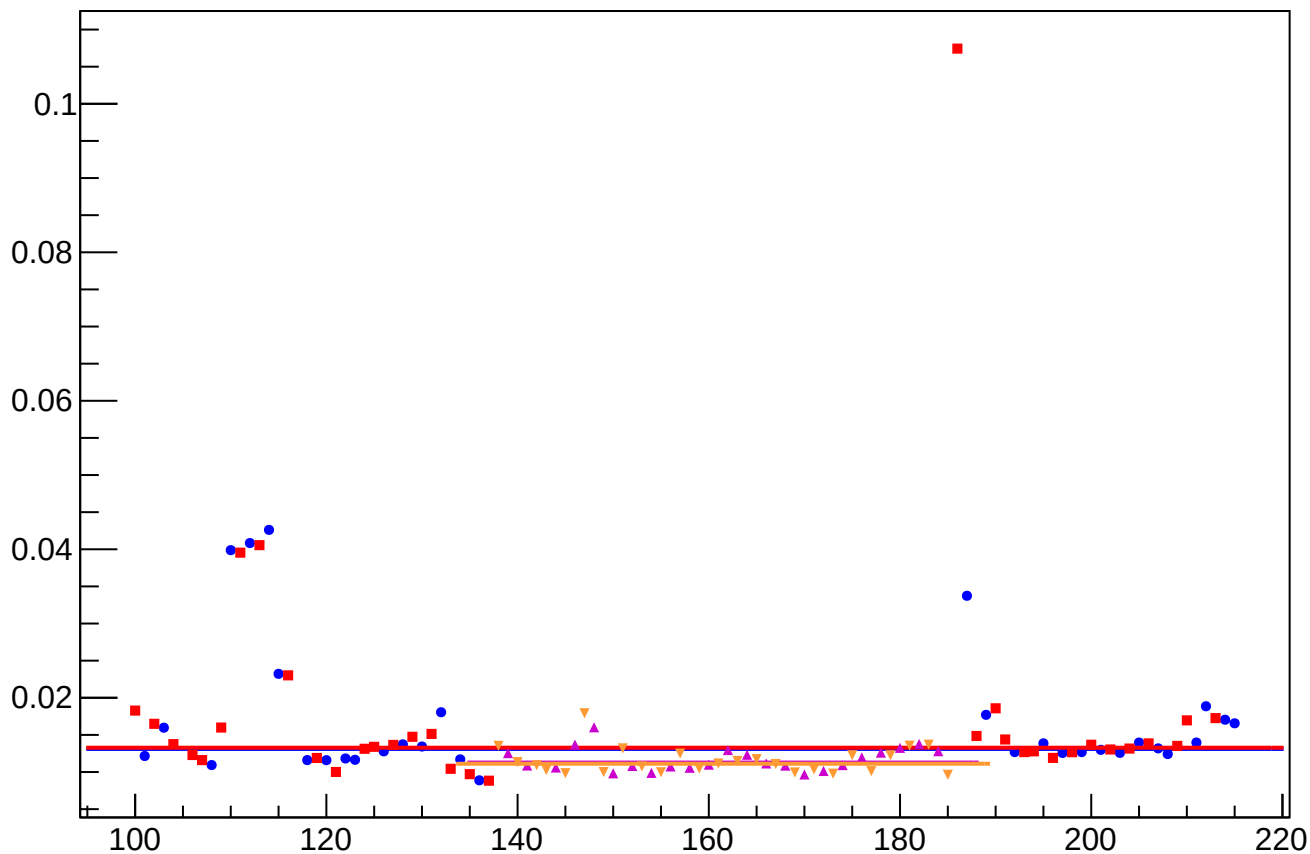
Right: 0.368+/-0.000 χ^2/NDF : 16773550022.8/65

In: 0.344+/-0.000 χ^2/NDF : 7955791507.1/54

Out: 0.352+/-0.000 χ^2/NDF : 8925959533.4/58

All: 0.348+/-0.000 χ^2/NDF : 16889303045.2/117

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 1829139.1/31

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 2089755.1/33

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 502226.7/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 1113859.9/47

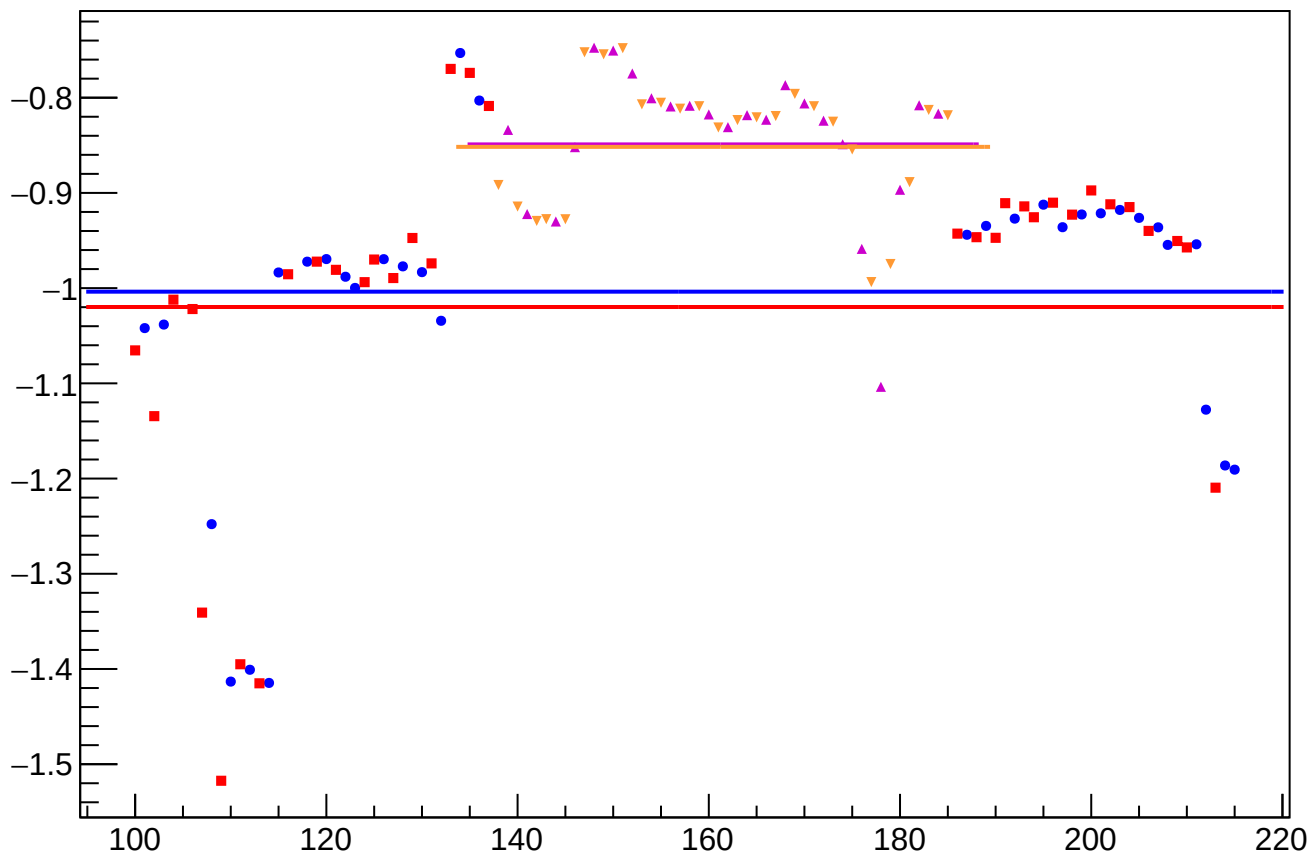
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 3921271.7/65

In: 0.012 $\pm$ 0.000 χ^2/NDF : 2693054.2/54

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 3198776.9/58

All: 0.012 $\pm$ 0.000 χ^2/NDF : 5893743.3/113

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 $\pm$ 0.000 χ^2 /NDF: 426603393.9/31

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF: 189276591.7/24

Right Out: -1.020 $\pm$ 0.000 χ^2 /NDF: 567656432.7/33

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF: 256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

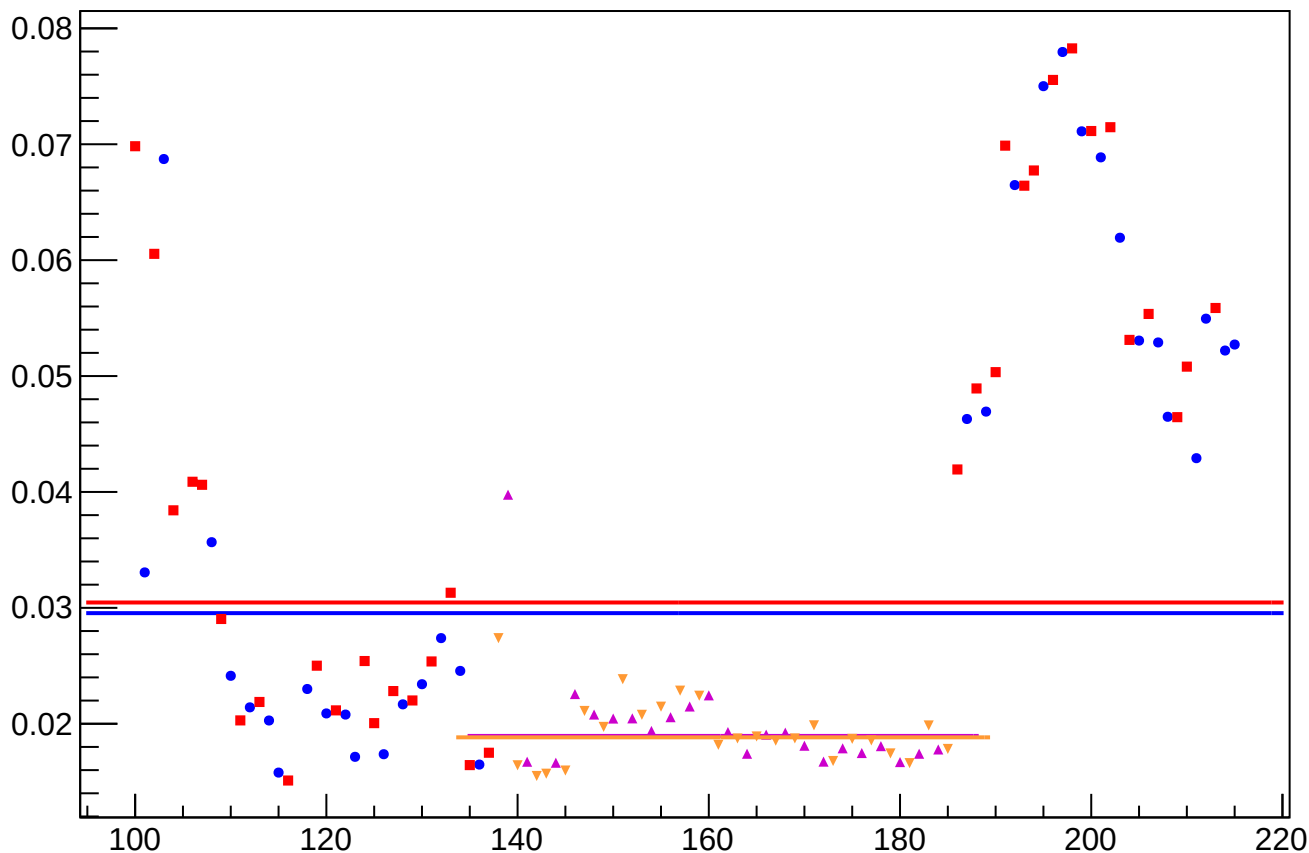
Right: -1.012 $\pm$ 0.000 χ^2 /NDF: 996012402.8/65

In: -0.890 $\pm$ 0.000 χ^2 /NDF: 929020211.5/54

Out: -0.892 $\pm$ 0.000 χ^2 /NDF: 1039529619.2/58

All: -0.891 $\pm$ 0.000 χ^2 /NDF: 1968659501.5/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7439380.8/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.030 $\pm$ 0.000 χ^2 /NDF: 7106194.8/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

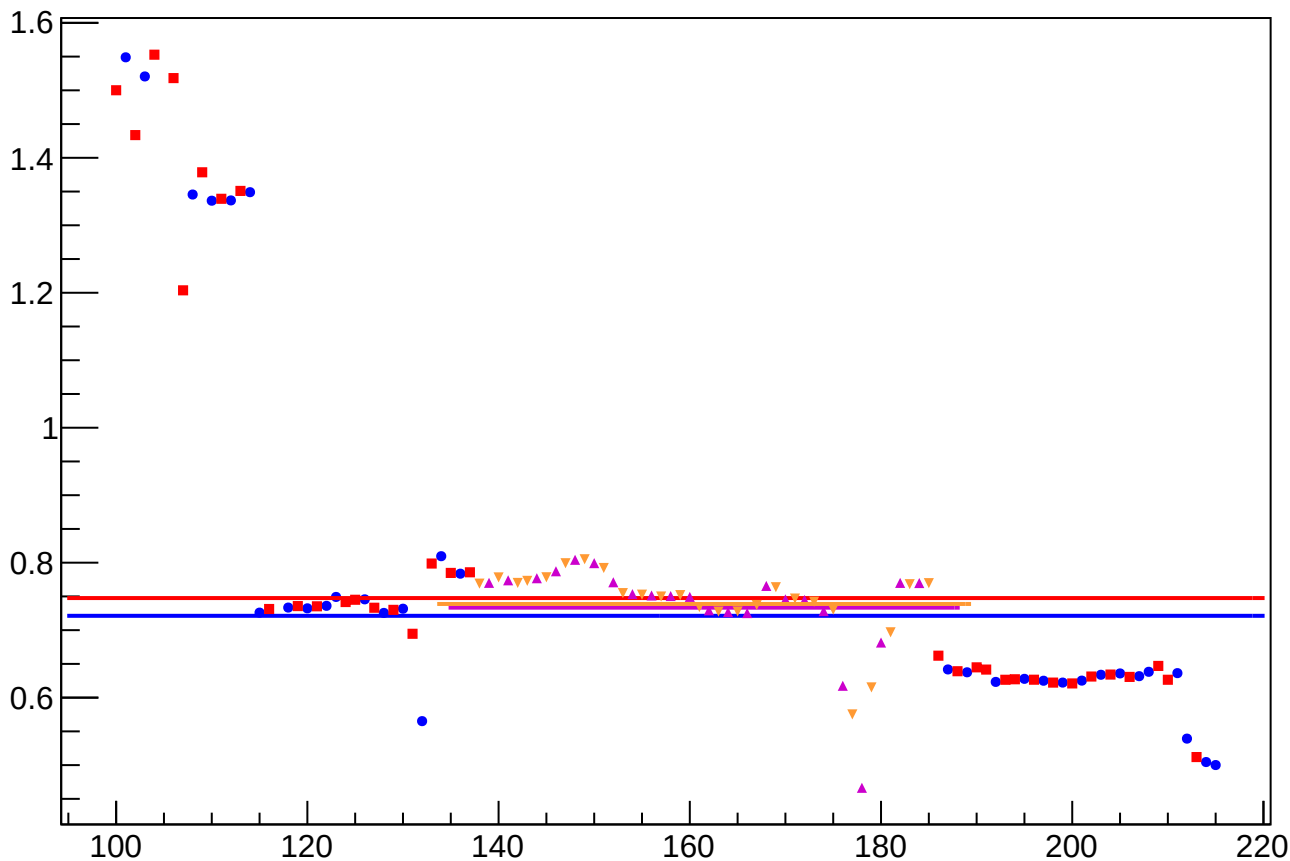
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 14556981.9/65

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10392703.0/54

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:10301096.1/58

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 20694763.8/113

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.721+/-0.000 χ^2/NDF : 3823700200.6/31

Left Out: 0.739+/-0.000 χ^2/NDF :333086309.0/24

Right Out: 0.748+/-0.000 χ^2/NDF : 3969186180.7/33

Left In: 0.733+/-0.000 χ^2/NDF :570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

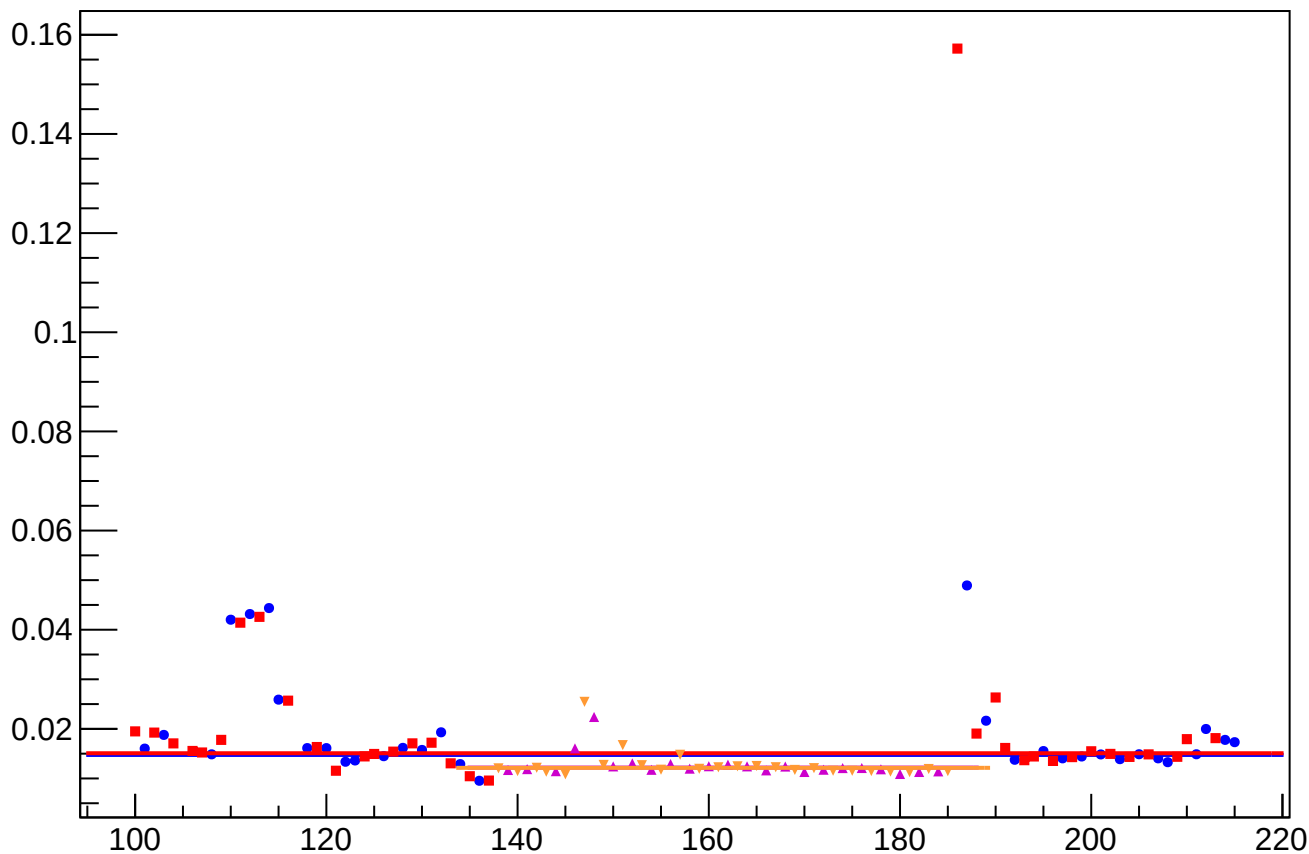
Right: 0.734+/-0.000 χ^2/NDF : 7816904951.2/65

In: 0.729+/-0.000 χ^2/NDF :4400362310.8/54

Out: 0.742+/-0.000 χ^2/NDF :4305569748.1/58

All: 0.735+/-0.000 χ^2/NDF : 8722415321.0/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1843271.5/31

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:638211.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2159488.4/33

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481639.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120132.0/47

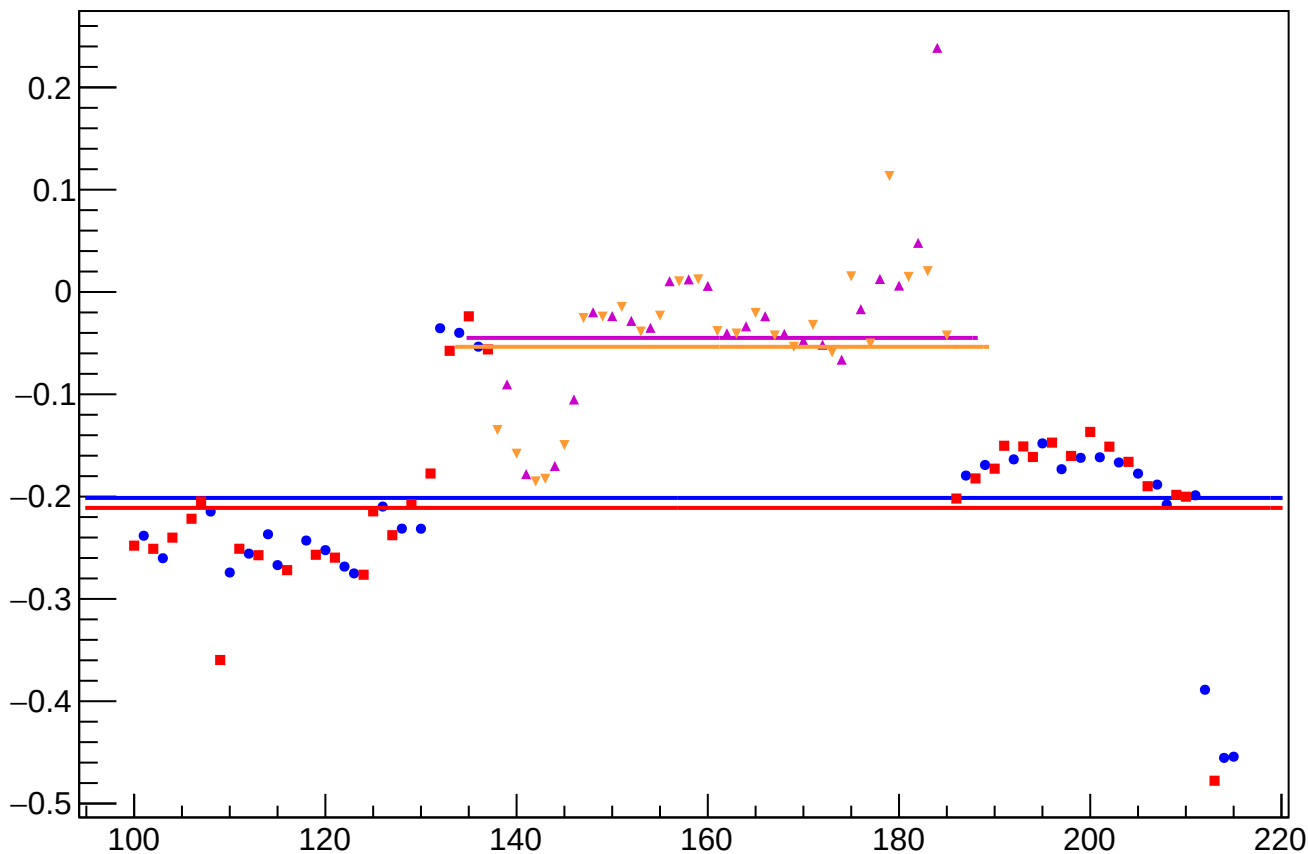
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4010867.0/65

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2897684.8/54

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3543944.7/58

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6441689.5/113

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.201+/-0.000 χ^2/NDF : 153397460.0/31

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.211+/-0.000 χ^2/NDF : 131634957.6/33

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

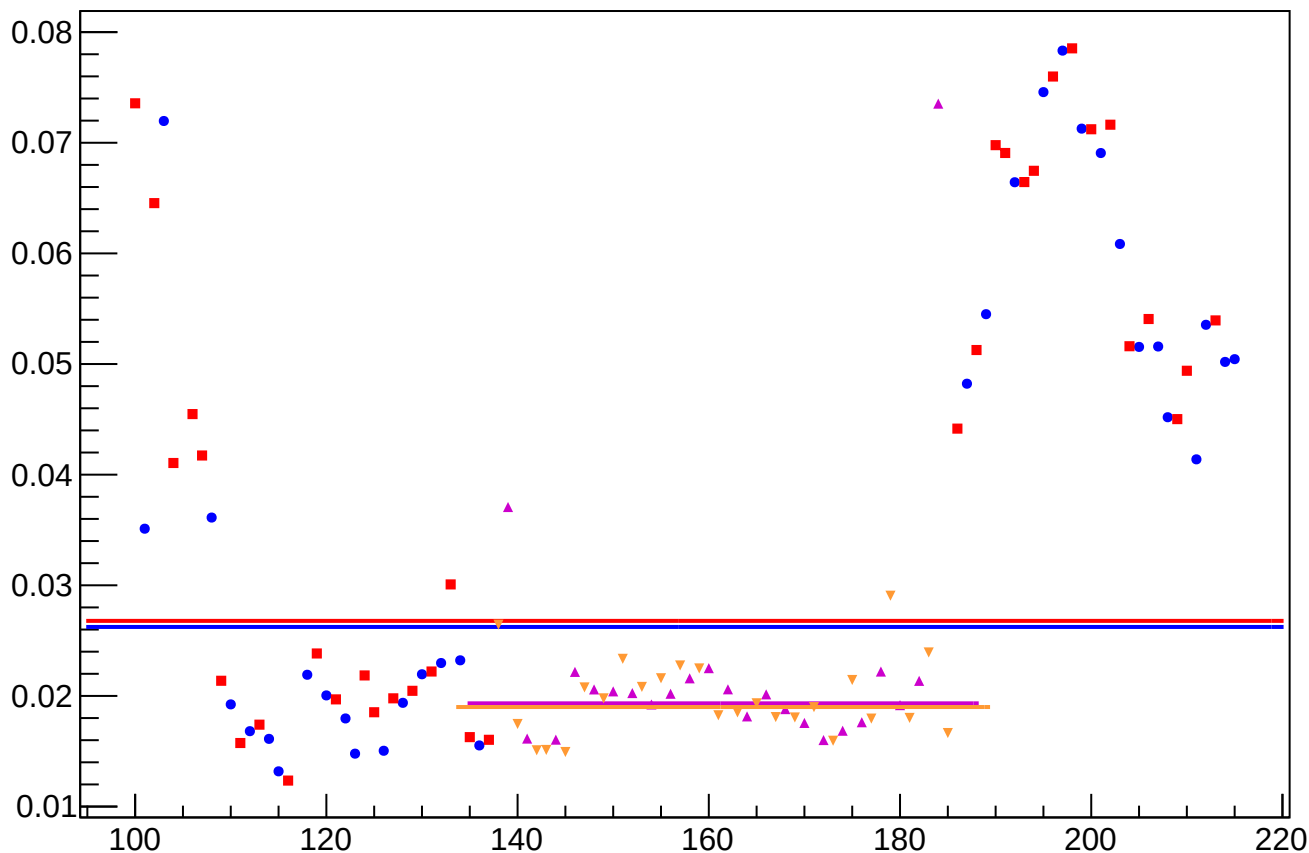
Right: -0.206+/-0.000 χ^2/NDF : 285806278.2/65

In: -0.093+/-0.000 χ^2/NDF : 563666349.6/54

Out: -0.098+/-0.000 χ^2/NDF : 582304705.5/58

All: -0.096+/-0.000 χ^2/NDF : 1146527622.4/114

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 8728022.7/31

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 8707487.4/33

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

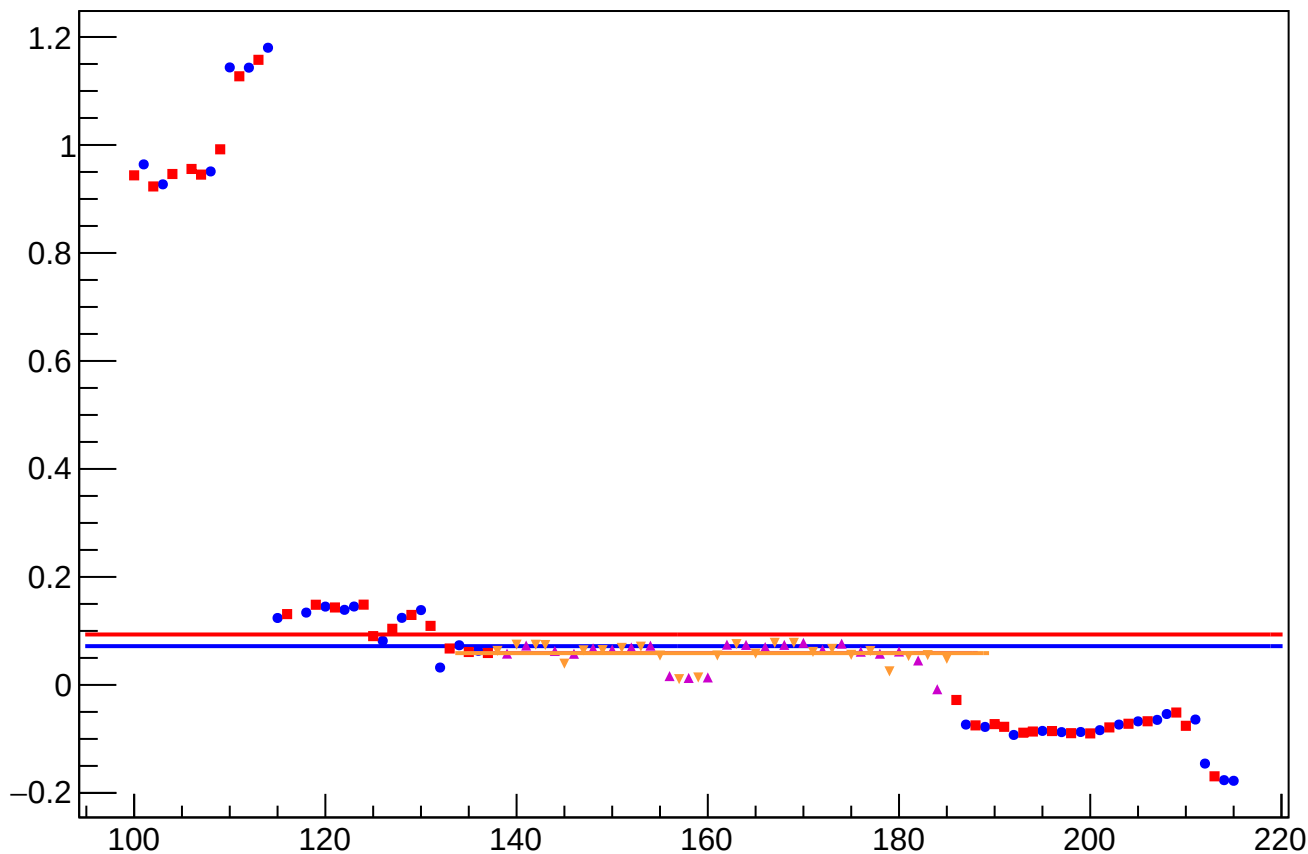
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 17440427.6/65

In: 0.021 $\pm$ 0.000 χ^2 /NDF:10723542.4/54

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:10790298.3/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 21518312.1/113

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 8645117781.1/31

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.093+/-0.000 χ^2/NDF : 9346648717.7/33

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

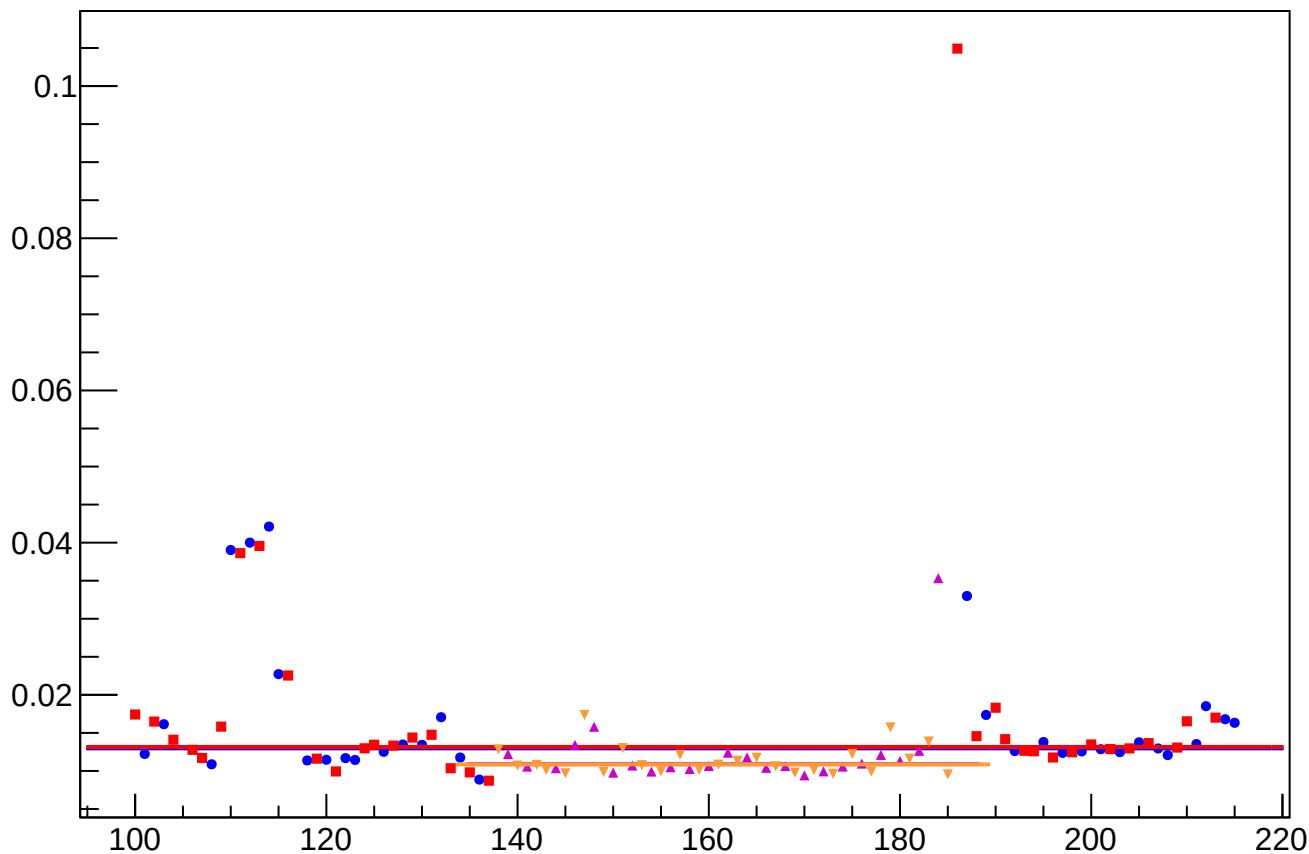
Right: 0.082+/-0.000 χ^2/NDF : 18012890904.8/65

In: 0.064+/-0.000 χ^2/NDF : 8712582334.6/54

Out: 0.072+/-0.000 χ^2/NDF : 9458829749.2/58

All: 0.068+/-0.000 χ^2/NDF : 18178285215.1/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1781931.2/31

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2034015.4/33

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

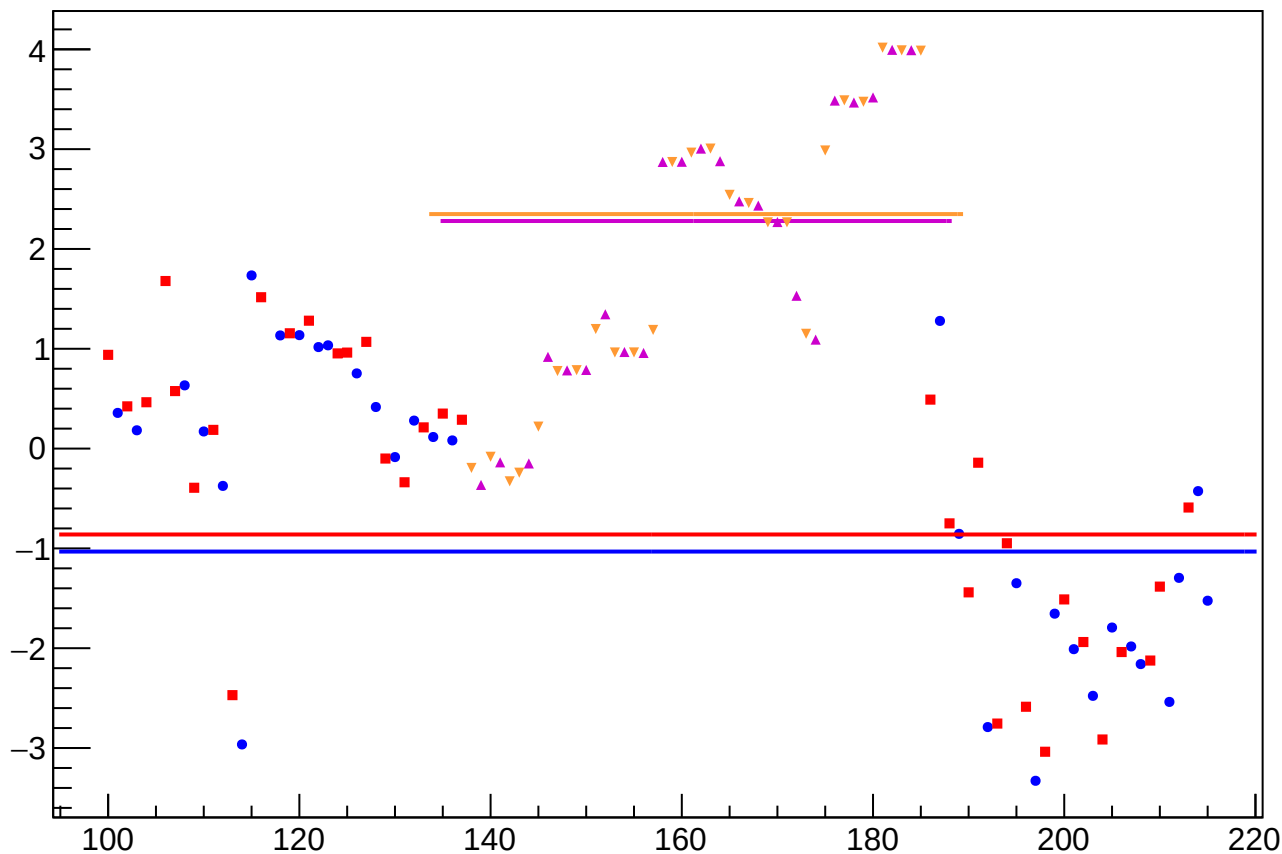
Right: 0.013+/-0.000 χ^2/NDF : 3818811.5/65

In: 0.012+/-0.000 χ^2/NDF : 2789634.0/54

Out: 0.012+/-0.000 χ^2/NDF : 3210449.8/58

All: 0.012+/-0.000 χ^2/NDF : 6000083.8/113

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.032 ± 0.000 $\chi^2/\text{NDF}: 7858838710.4/31$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.861 ± 0.000 $\chi^2/\text{NDF}: 8174005805.3/33$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

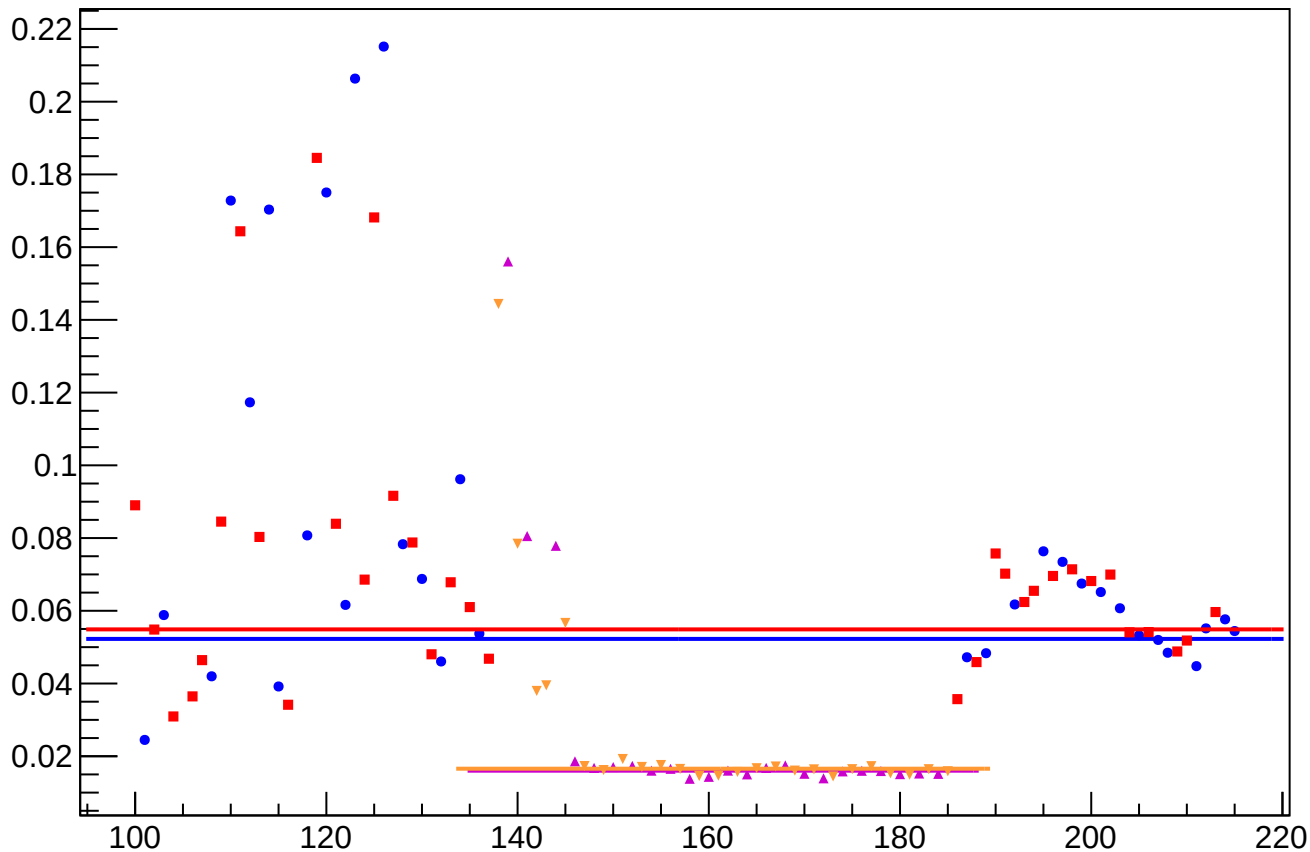
Right: -0.950 ± 0.000 $\chi^2/\text{NDF}: 16100802787.3/65$

In: 1.998 ± 0.000 $\chi^2/\text{NDF}: 118041125915.5/54$

Out: 2.093 ± 0.000 $\chi^2/\text{NDF}: 113882891553.8/58$

All: 2.045 ± 0.000 $\chi^2/\text{NDF}: 232176171585.0$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3525699.8/31

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2874153.3/33

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

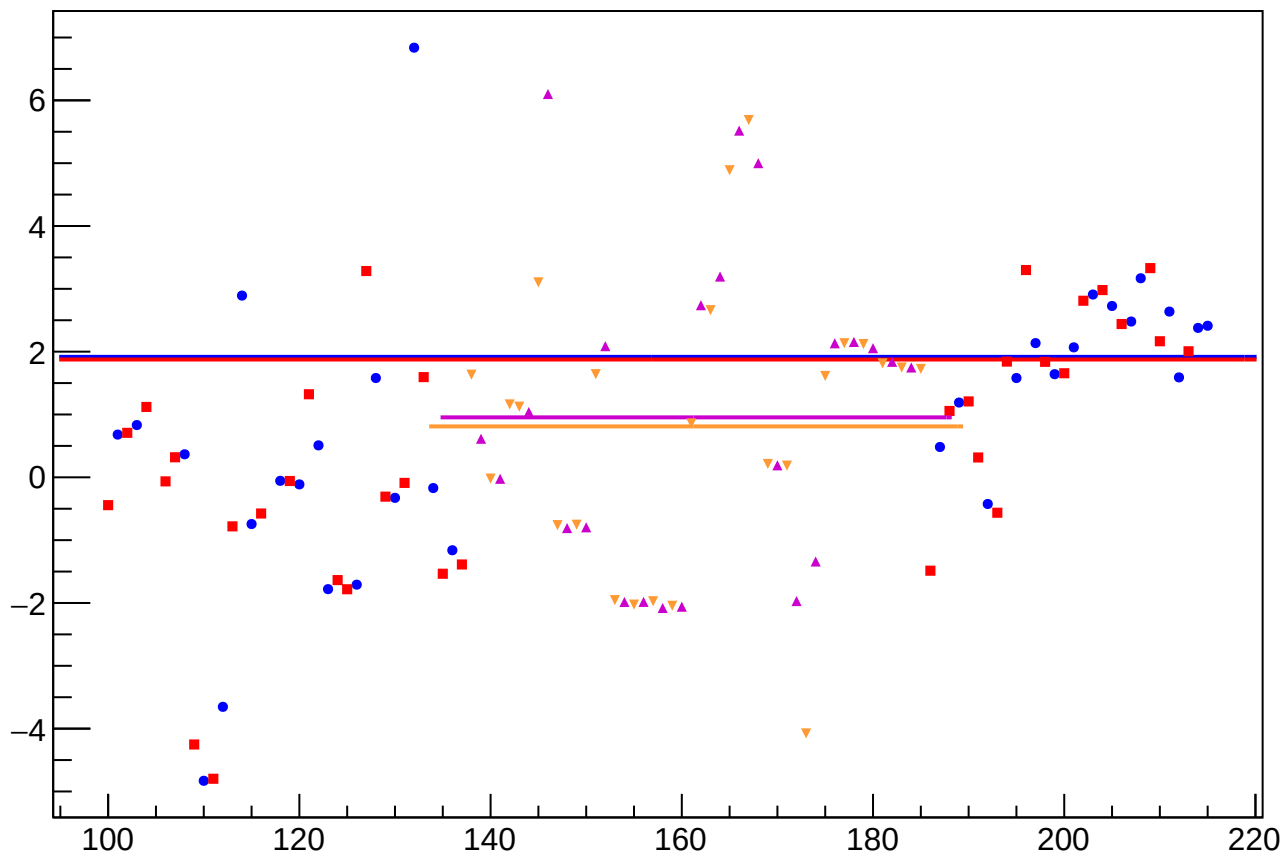
Right: 0.054+/-0.000 χ^2/NDF : 6431726.4/65

In: 0.019+/-0.000 χ^2/NDF : 17658179.0/54

Out: 0.020+/-0.000 χ^2/NDF : 17493203.0/58

All: 0.019+/-0.000 χ^2/NDF : 35166841.3/113

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.917+/-0.000

χ^2/NDF : 39446560545.5/31

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.897+/-0.000

χ^2/NDF : 79003911964.8/65

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.213+/-0.000

χ^2/NDF : 635559685747.2/54

Right Out: 1.875+/-0.000

χ^2/NDF : 39531034115.6/33

Out: 1.072+/-0.000

χ^2/NDF : 570812421831.9/58

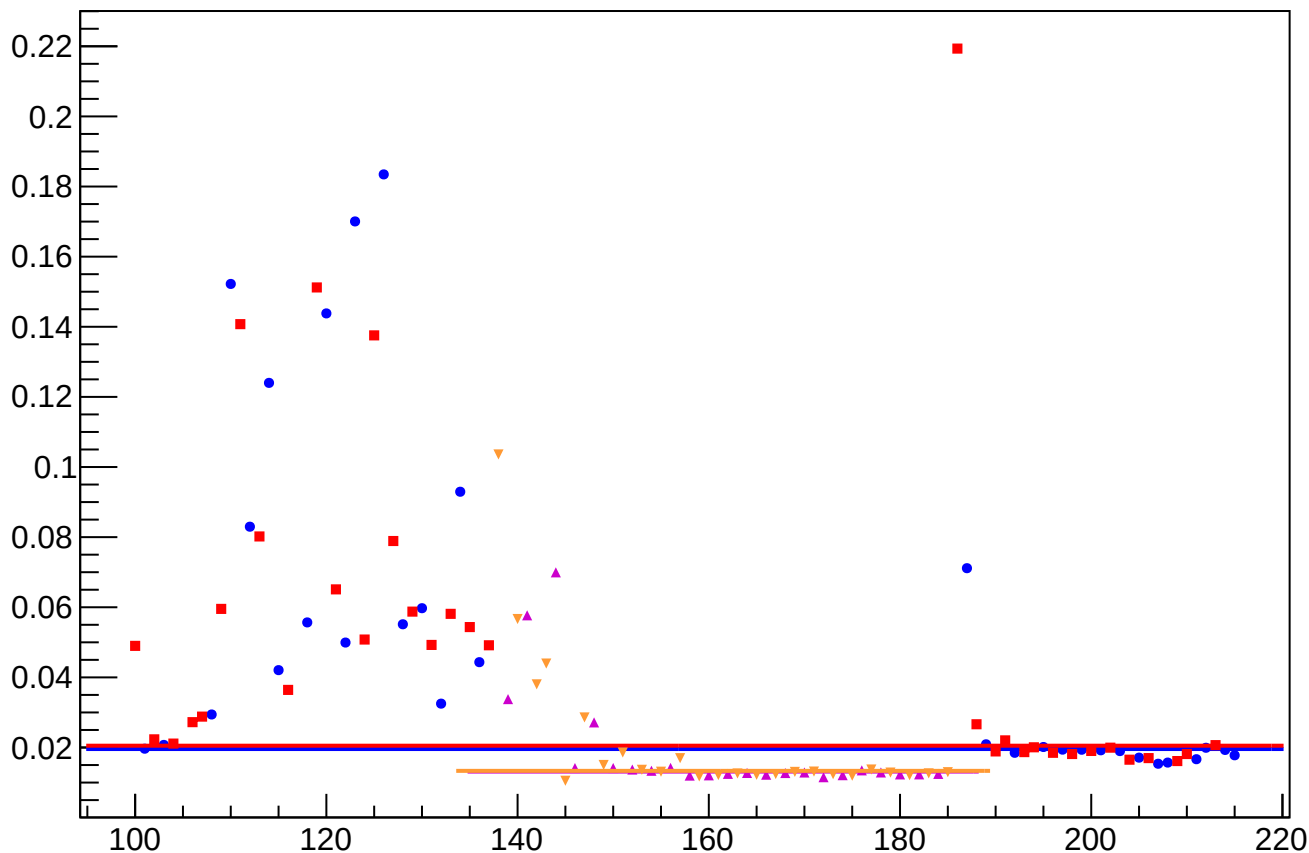
Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.144+/-0.000

χ^2/NDF : 1207512288653.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4126044.7/31

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167525.6/33

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

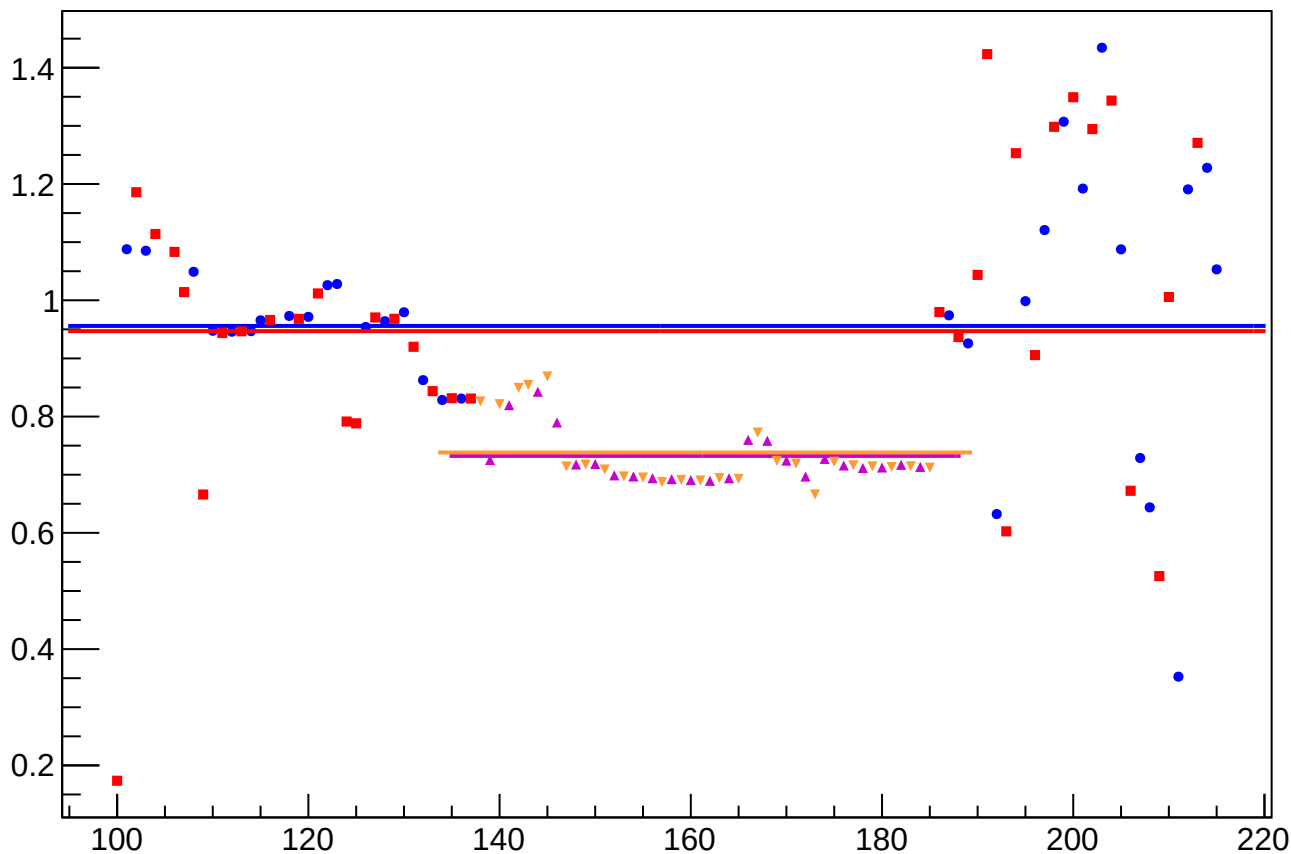
Right: 0.020+/-0.000 χ^2/NDF : 9320196.6/65

In: 0.015+/-0.000 χ^2/NDF :7995885.9/54

Out: 0.015+/-0.000 χ^2/NDF :10149868.6/58

All: 0.015+/-0.000 χ^2/NDF : 18152505.1/113

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.956 $\pm$ 0.000 χ^2 /NDF: 977256106.4/31

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.947 $\pm$ 0.000 χ^2 /NDF: 1201149116.4/33

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

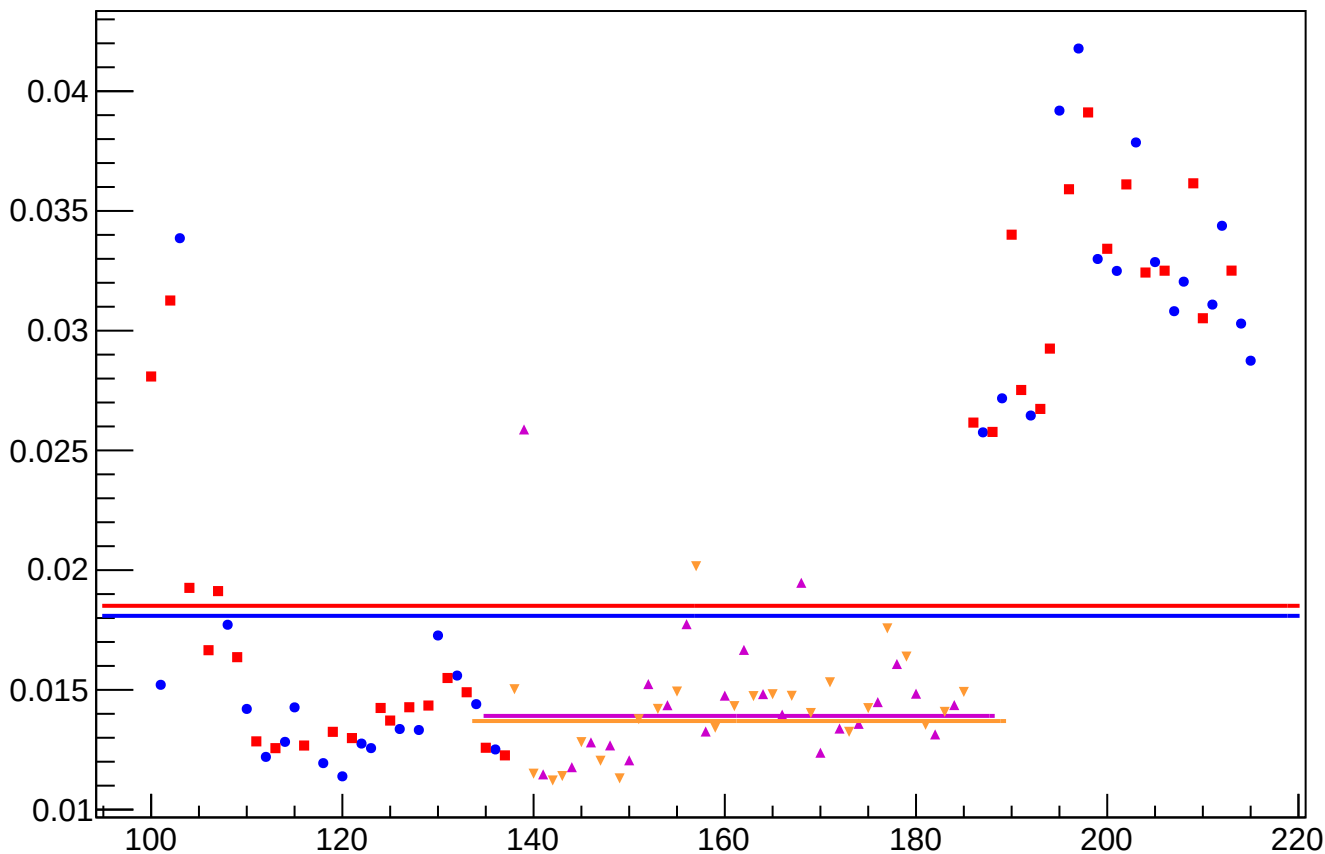
Right: 0.951 $\pm$ 0.000 χ^2 /NDF: 2179998507.9/65

In: 0.807 $\pm$ 0.000 χ^2 /NDF:2481531074.4/54

Out: 0.803 $\pm$ 0.000 χ^2 /NDF:2679614387.6/58

All: 0.805 $\pm$ 0.000 χ^2 /NDF: 5161935861.4/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5554809.0/31

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 4797104.4/33

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

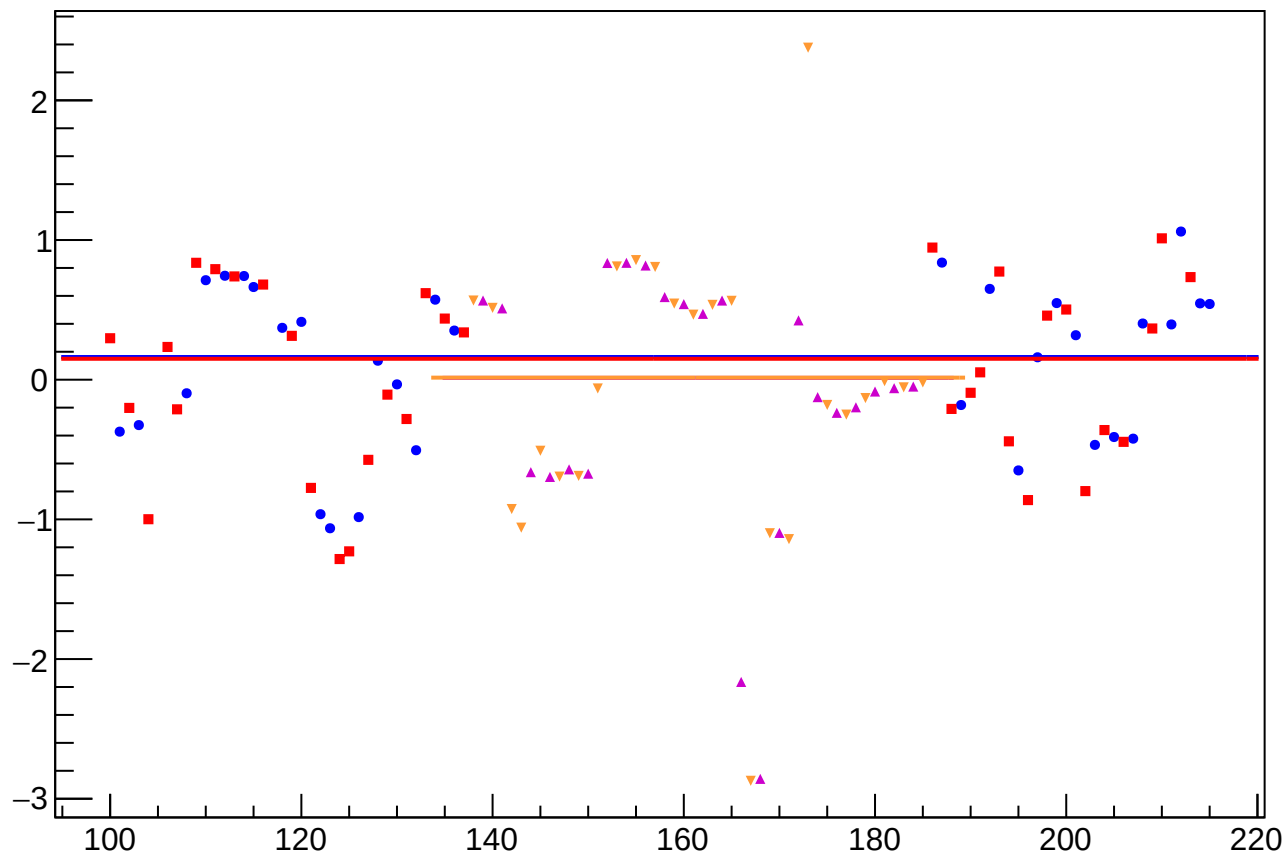
Right: 0.018+/-0.000 χ^2/NDF : 10358831.5/65

In: 0.015+/-0.000 χ^2/NDF : 7280918.0/54

Out: 0.015+/-0.000 χ^2/NDF : 6570092.2/58

All: 0.015+/-0.000 χ^2/NDF : 13852475.4/113

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.000 χ^2 /NDF: 30766503655.7/31

Left Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 96087835995.8/24

Right Out: 0.150 $\pm$ 0.000 χ^2 /NDF: 40756258999.6/33

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF: 79445696658.6/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 175533691121.4/47

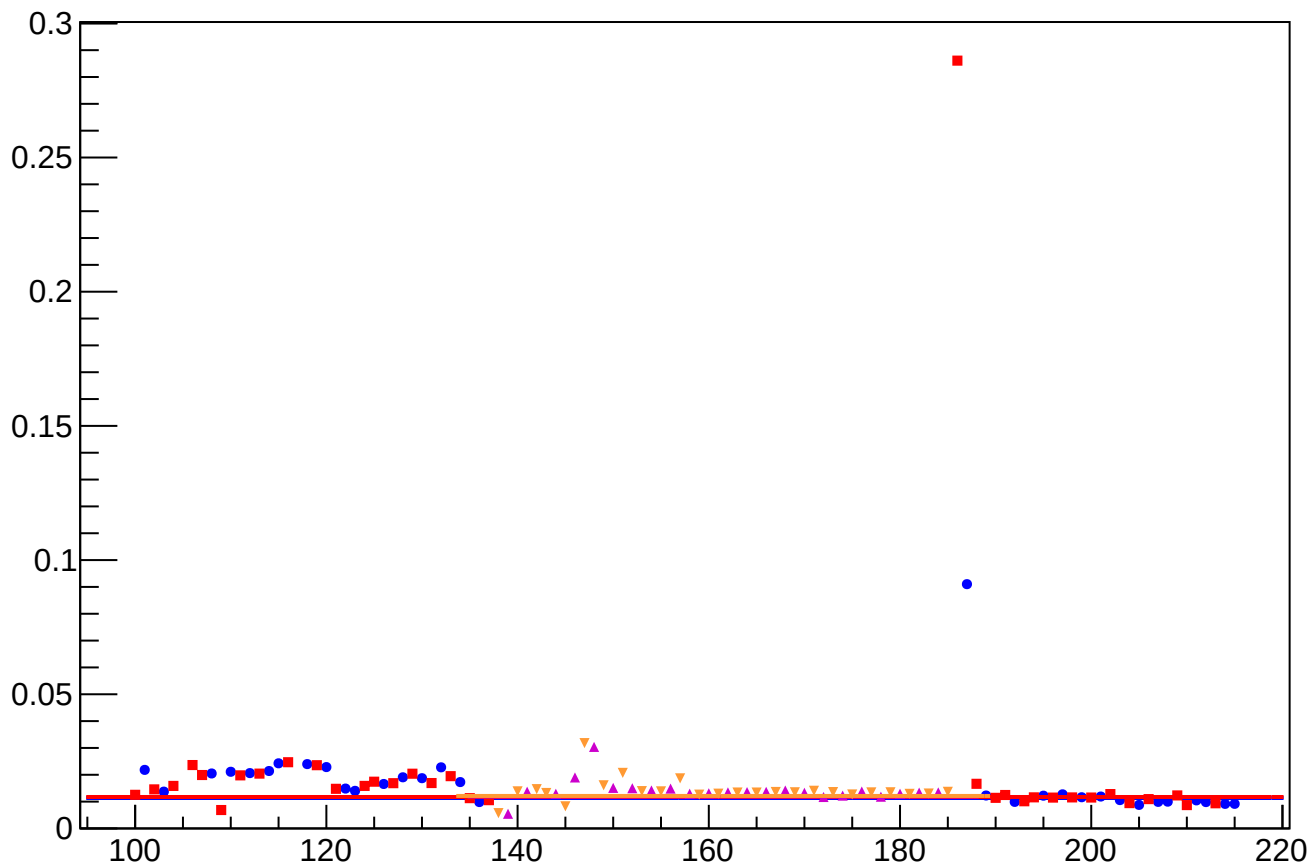
Right: 0.156 $\pm$ 0.000 χ^2 /NDF: 71531119126.8/65

In: 0.090 $\pm$ 0.000 χ^2 /NDF: 111428119458.0/54

Out: 0.080 $\pm$ 0.000 χ^2 /NDF: 137806791224.3/58

All: 0.085 $\pm$ 0.000 χ^2 /NDF: 249244954532.3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2576571.8/31

Left Out: 0.012+/-0.000 χ^2/NDF : 3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2971200.7/33

Left In: 0.012+/-0.000 χ^2/NDF : 3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

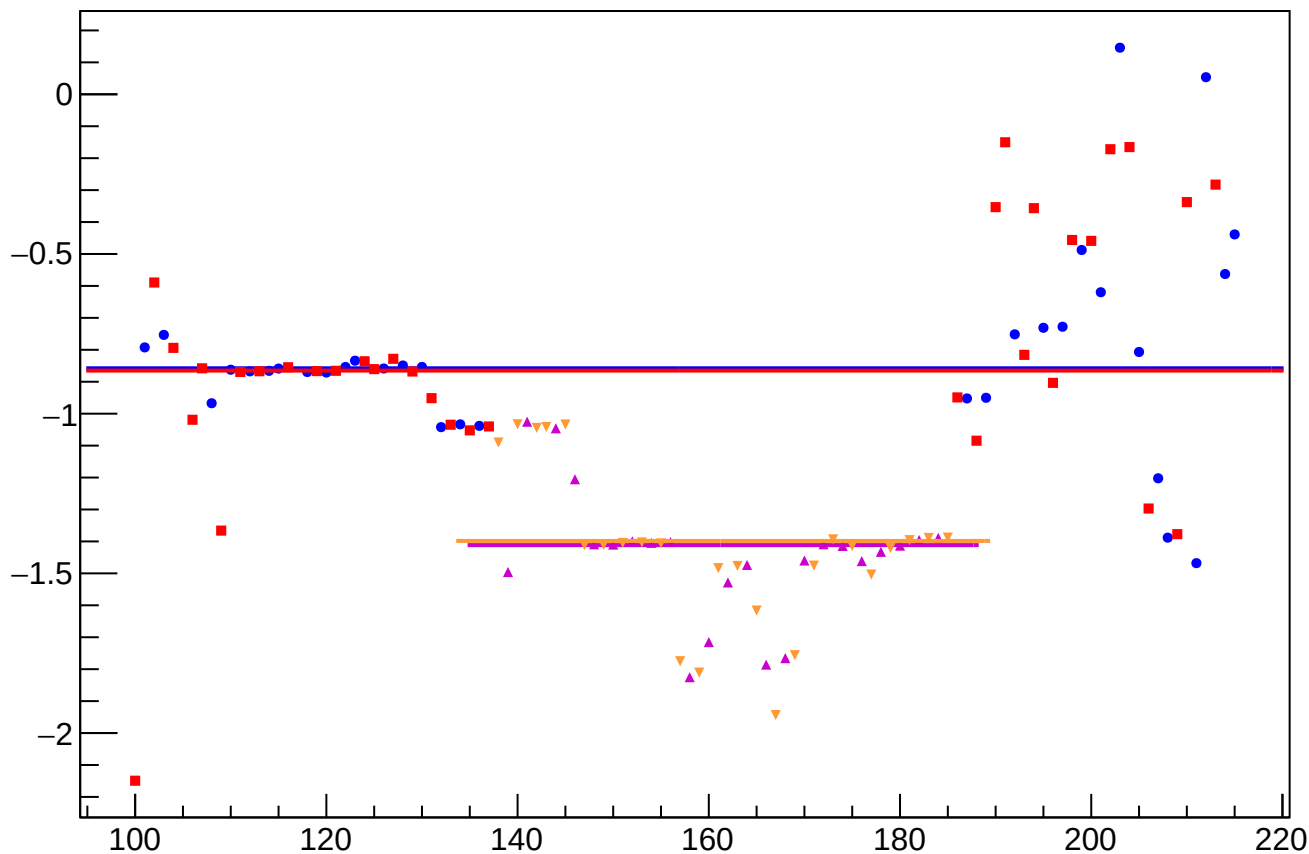
Right: 0.012+/-0.000 χ^2/NDF : 5562244.6/65

In: 0.012+/-0.000 χ^2/NDF : 5718031.0/54

Out: 0.012+/-0.000 χ^2/NDF : 6094904.8/58

All: 0.012+/-0.000 χ^2/NDF : 11831275.6/113

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.858 ± 0.000 $\chi^2/\text{NDF}: 371211910.0/31$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.865 ± 0.000 $\chi^2/\text{NDF}: 482589953.7/33$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

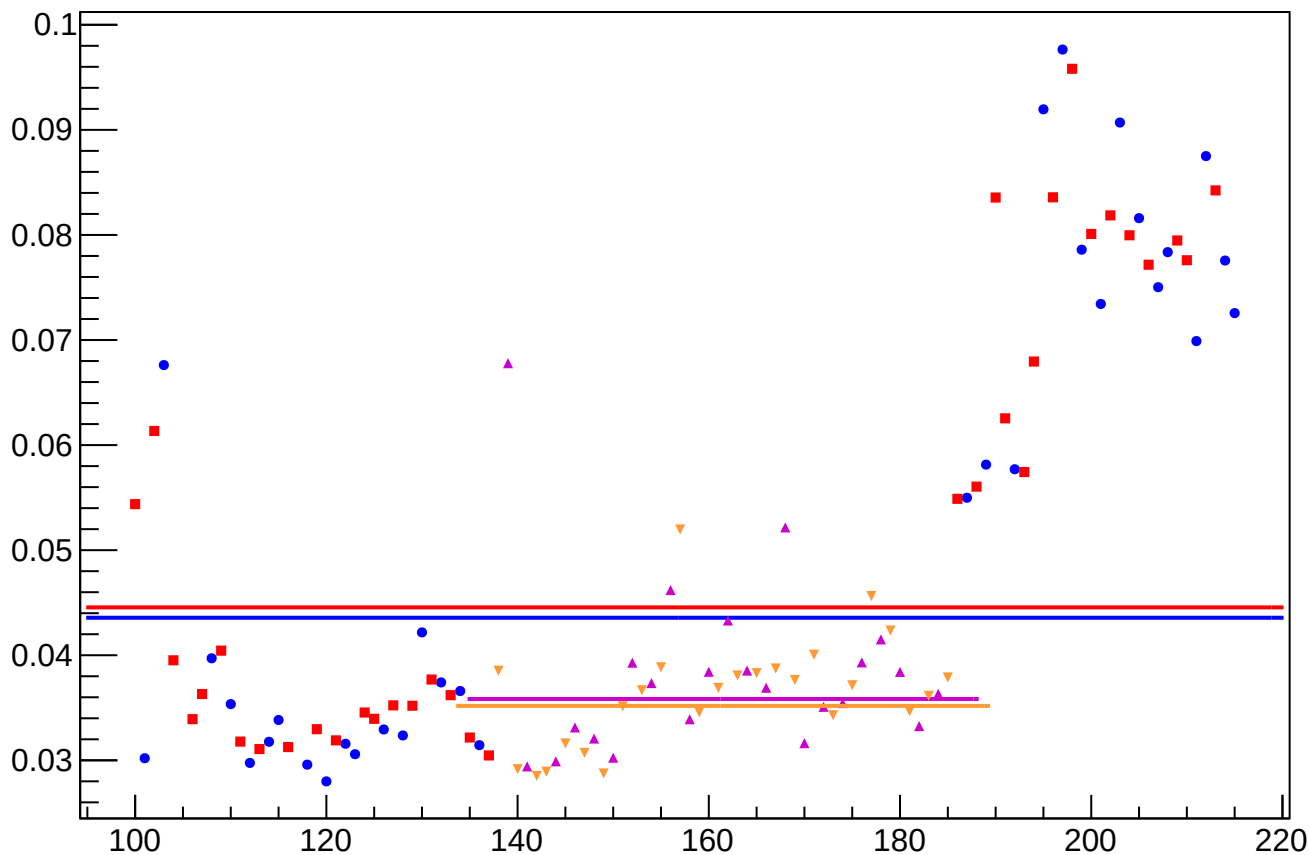
Right: -0.861 ± 0.000 $\chi^2/\text{NDF}: 853979661.8/65$

In: -1.207 ± 0.000 $\chi^2/\text{NDF}: 2241442013.6/54$

Out: -1.214 ± 0.000 $\chi^2/\text{NDF}: 2492917408.7/58$

All: -1.211 ± 0.000 $\chi^2/\text{NDF}: 4734907634.9/110$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.000 χ^2 /NDF: 5364582.0/31

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.045 $\pm$ 0.000 χ^2 /NDF: 4357113.0/33

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

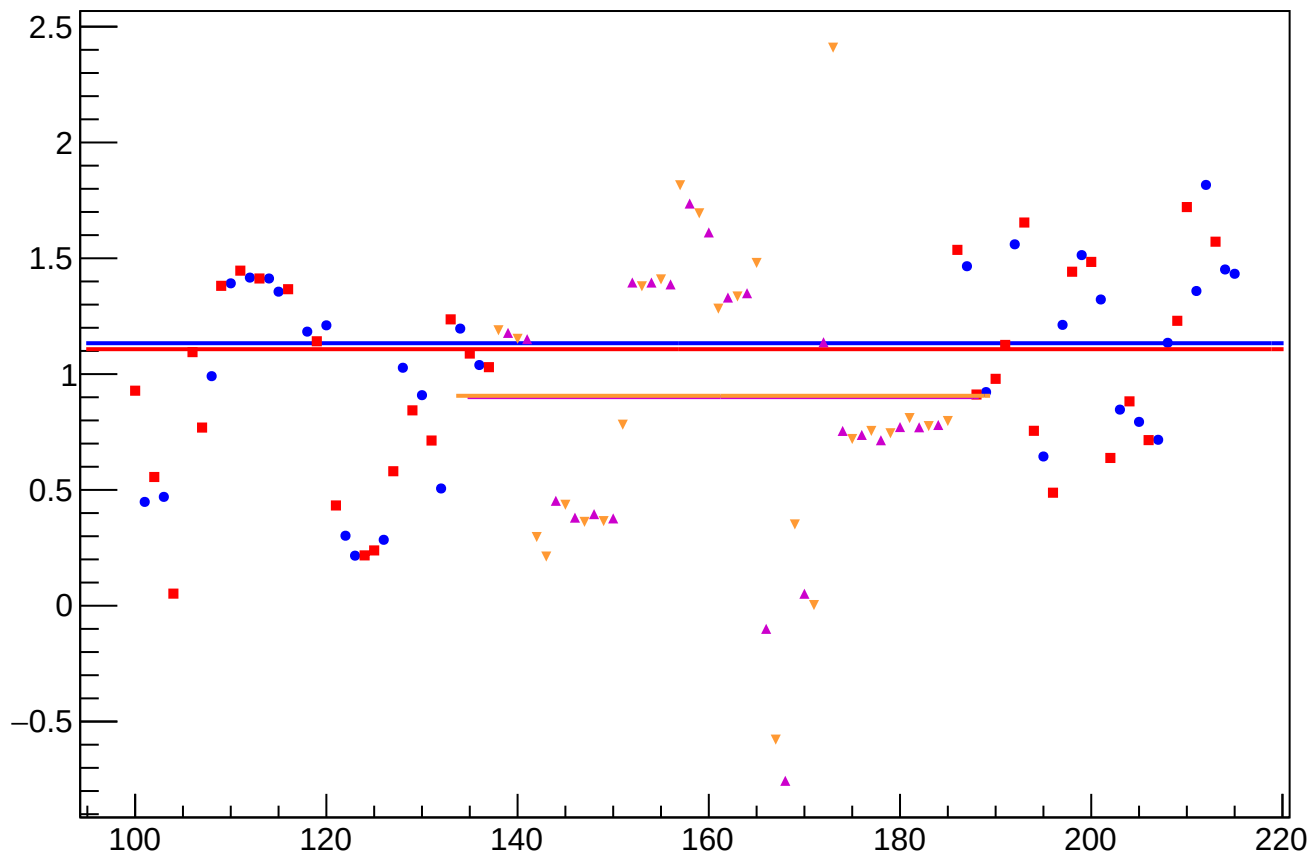
Right: 0.044 $\pm$ 0.000 χ^2 /NDF: 9728427.9/65

In: 0.039 $\pm$ 0.000 χ^2 /NDF:6785349.1/54

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:5743155.7/58

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 12530022.7/113

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.133+/-0.000

χ^2/NDF : 42329127127.1/31

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.122+/-0.000 χ^2/NDF : 86066910574.4/65

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 1.039+/-0.000 χ^2/NDF : 115973799535.0/54

Right Out: 1.108+/-0.000

χ^2/NDF : 43647466060.9/33

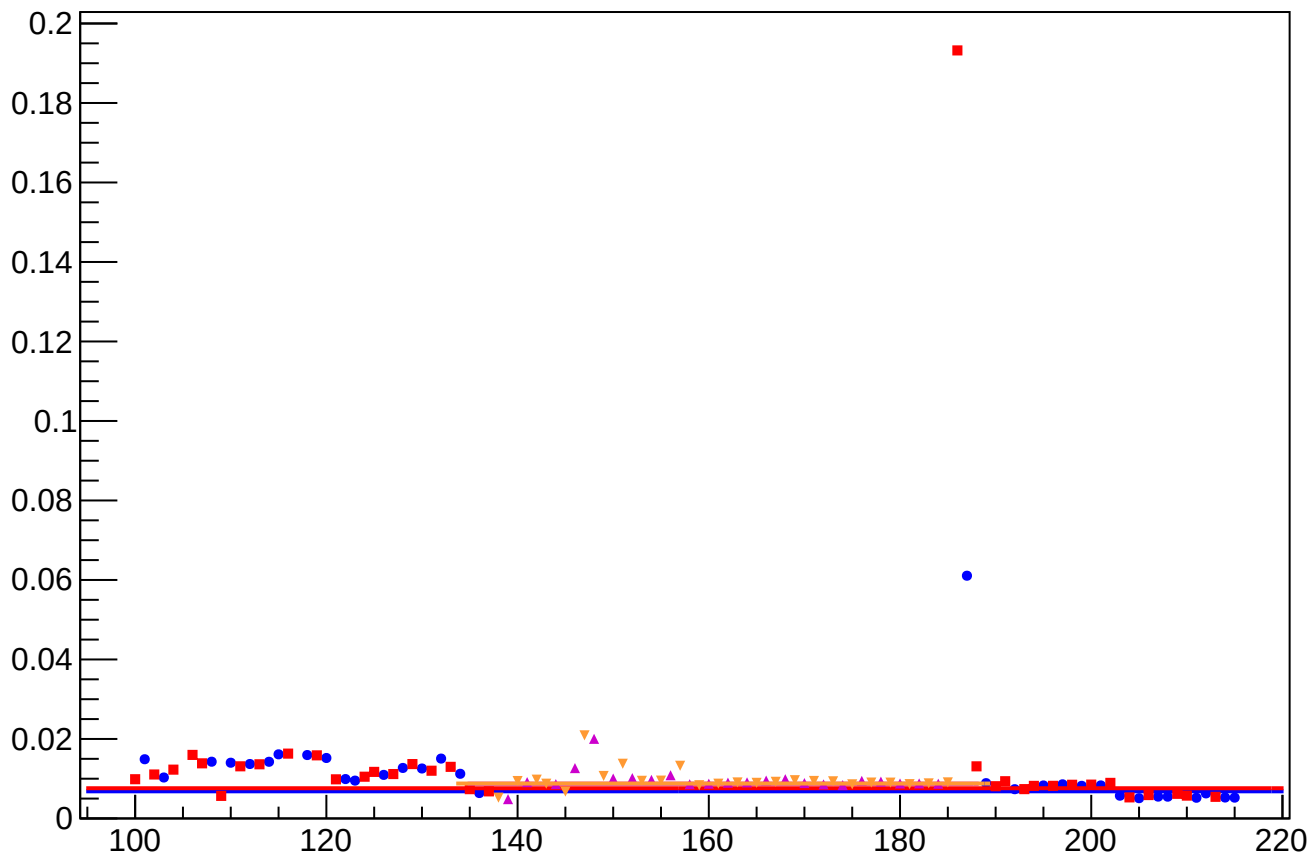
Out: 1.012+/-0.000 χ^2/NDF : 132423076850.0/58

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.027+/-0.000 χ^2/NDF : 248574445619.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3702213.5/31

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698526.2/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3683927.5/33

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1669983.7/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3369008.8/47

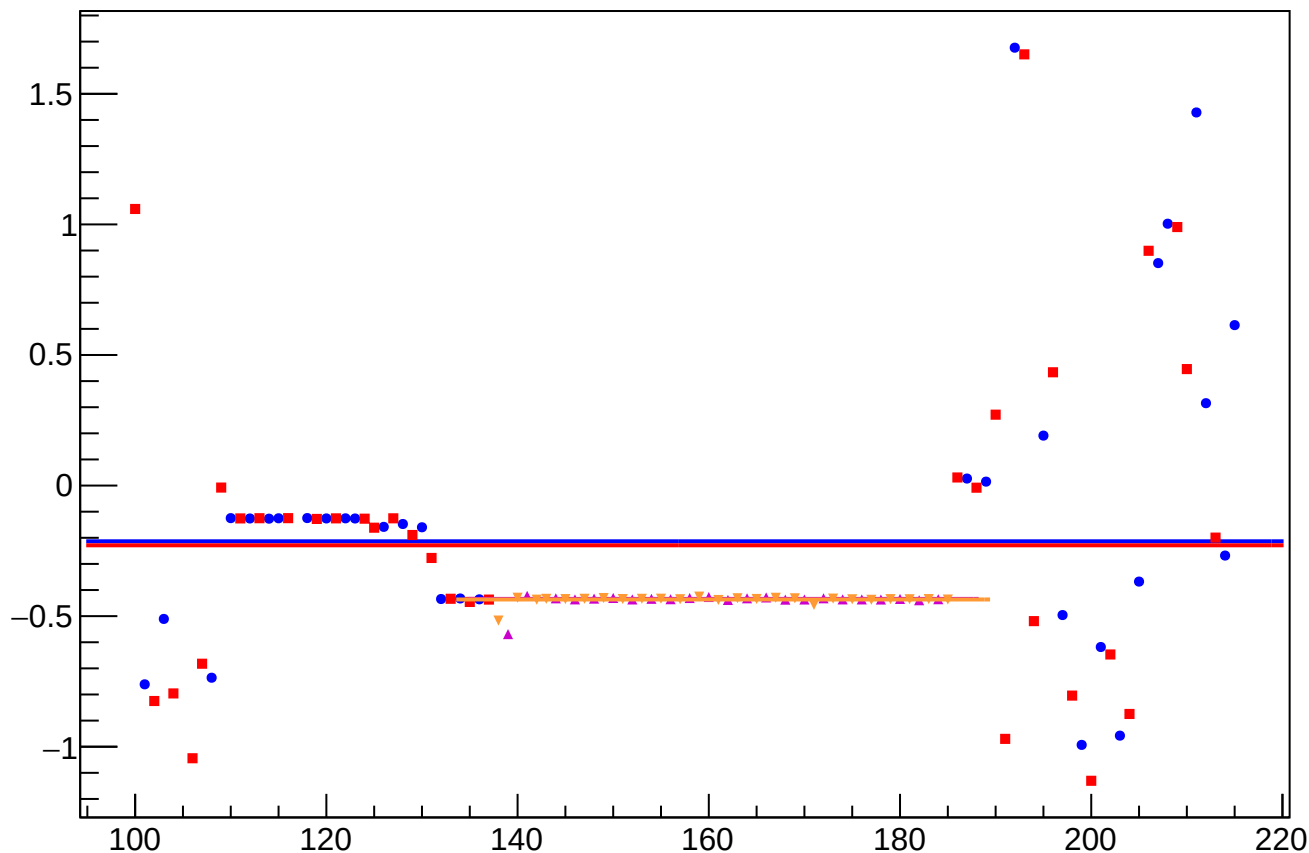
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 7547974.1/65

In: 0.008 $\pm$ 0.000 χ^2 /NDF:6272900.3/54

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5705223.4/58

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 12131911.8/113

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.213+/-0.000 χ^2/NDF : 4979571062.4/31

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.229+/-0.000 χ^2/NDF : 3413959324.9/33

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

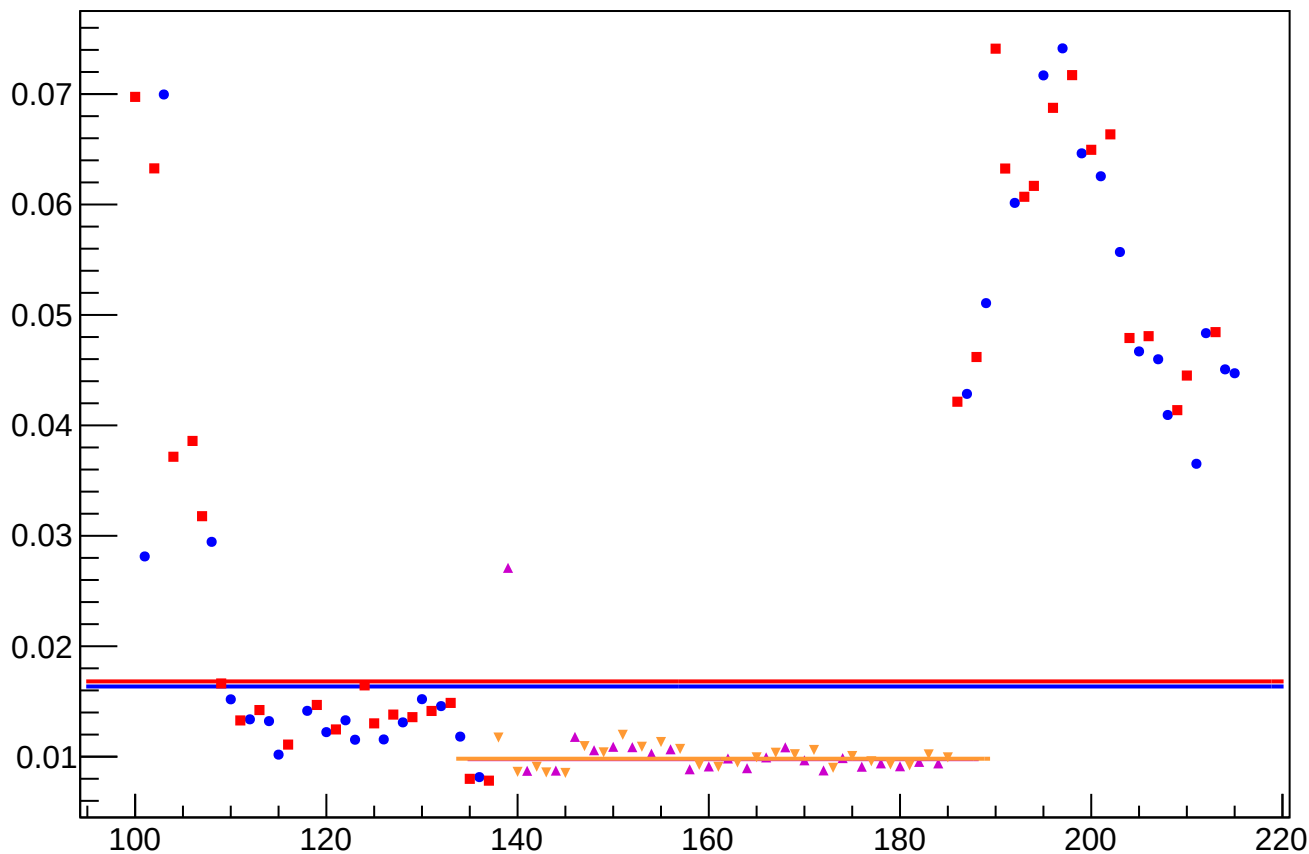
Right: -0.221+/-0.000 χ^2/NDF : 8397575445.1/65

In: -0.393+/-0.000 χ^2/NDF : 6402772061.7/54

Out: -0.401+/-0.000 χ^2/NDF : 4628598494.8/58

All: -0.397+/-0.000 χ^2/NDF : 11038332271.2/117

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 12480547.0/31

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.017+/-0.000 χ^2/NDF : 12265026.3/33

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

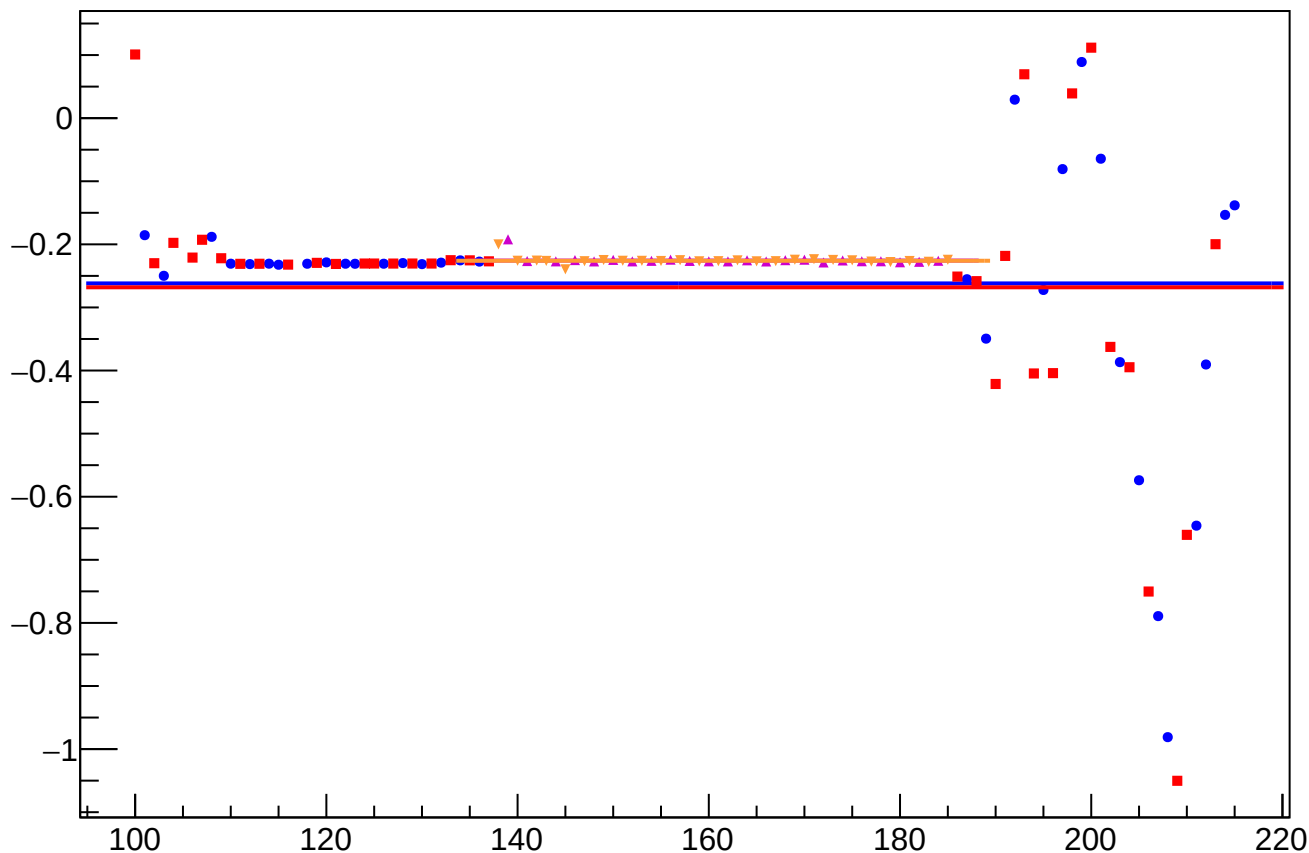
Right: 0.017+/-0.000 χ^2/NDF : 24752862.7/65

In: 0.011+/-0.000 χ^2/NDF : 15766289.5/54

Out: 0.011+/-0.000 χ^2/NDF : 15238191.1/58

All: 0.011+/-0.000 χ^2/NDF : 31004493.7/113

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.262+/-0.000 χ^2/NDF : 25220385016.5/31

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.268+/-0.000 χ^2/NDF : 25233439034.9/33

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

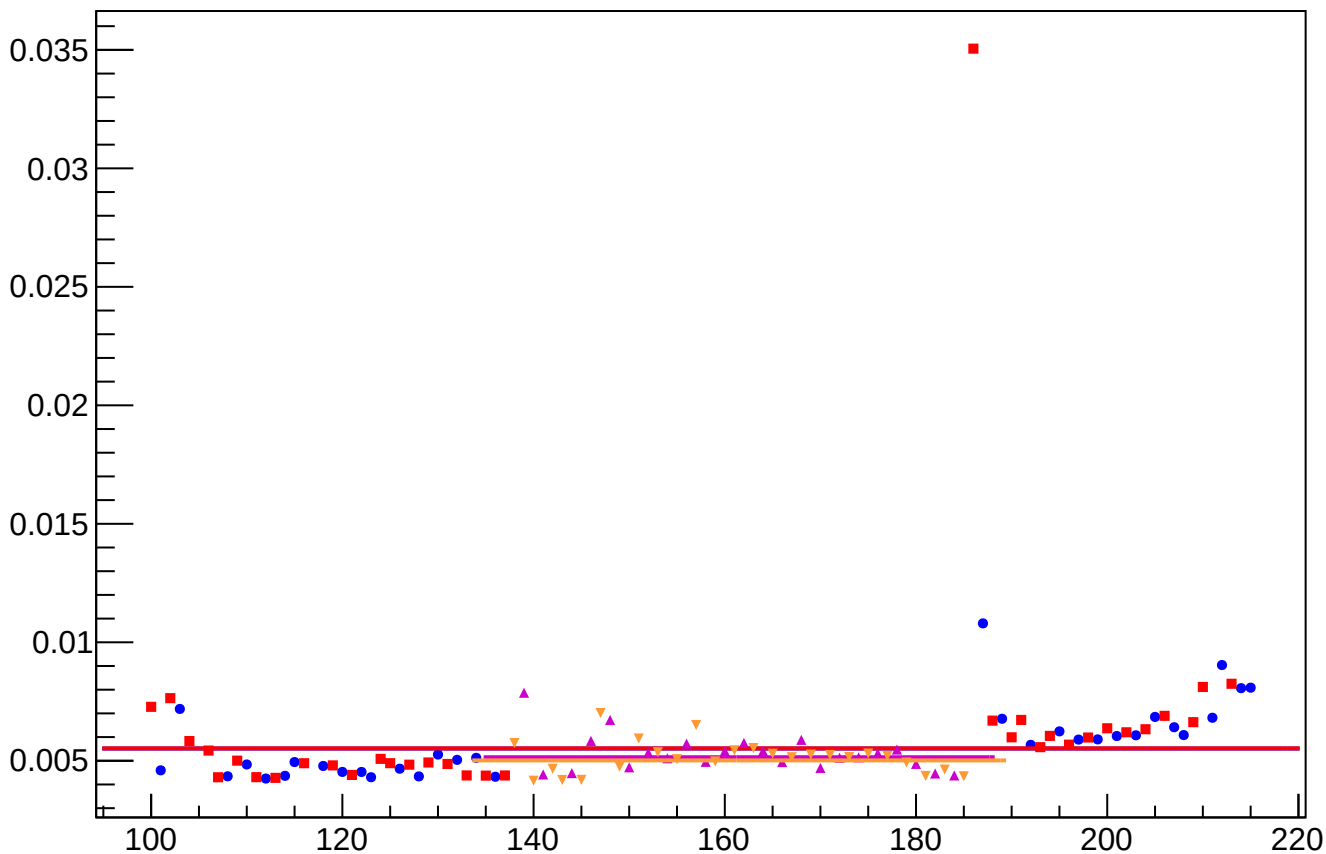
Right: -0.265+/-0.000 χ^2/NDF : 50463463790.2/65

In: -0.242+/-0.000 χ^2/NDF : 25600368764.7/54

Out: -0.244+/-0.000 χ^2/NDF : 25769183104.1/58

All: -0.243+/-0.000 χ^2/NDF : 51371335709.0/114

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1356487.8/31

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1609124.8/33

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

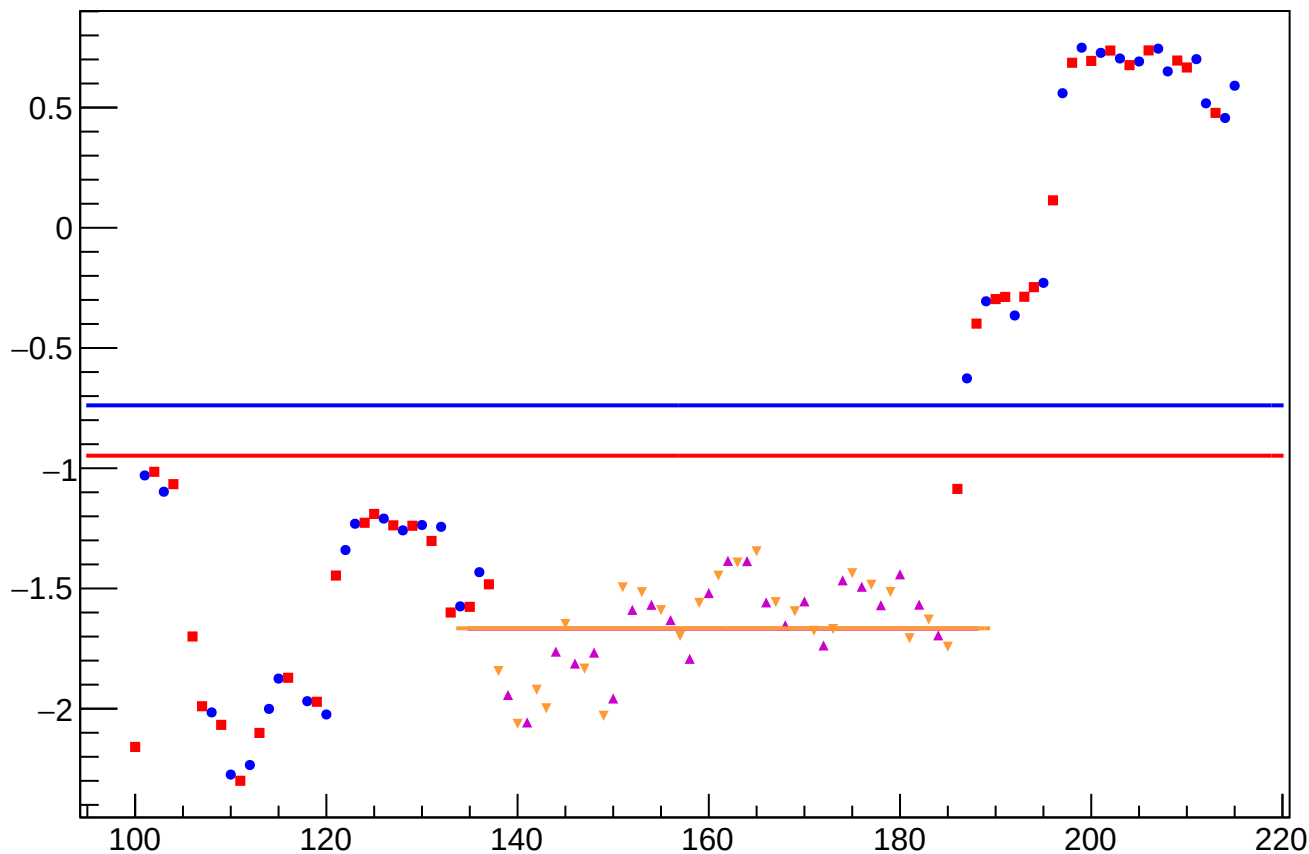
Right: 0.006+/-0.000 χ^2/NDF : 2965644.2/65

In: 0.005+/-0.000 χ^2/NDF : 1935449.6/54

Out: 0.005+/-0.000 χ^2/NDF : 2291457.0/58

All: 0.005+/-0.000 χ^2/NDF : 4235070.7/113

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.739 ± 0.000 $\chi^2/\text{NDF}: 238933110637.0/31$

Left Out: -1.666 ± 0.000 $\chi^2/\text{NDF}: 18368038680.8/24$

Right Out: -0.948 ± 0.000 $\chi^2/\text{NDF}: 250618035468.2/33$

Left In: -1.667 ± 0.000 $\chi^2/\text{NDF}: 14615453869.3/22$

Left: -1.666 ± 0.000 $\chi^2/\text{NDF}: 32983827631.4/47$

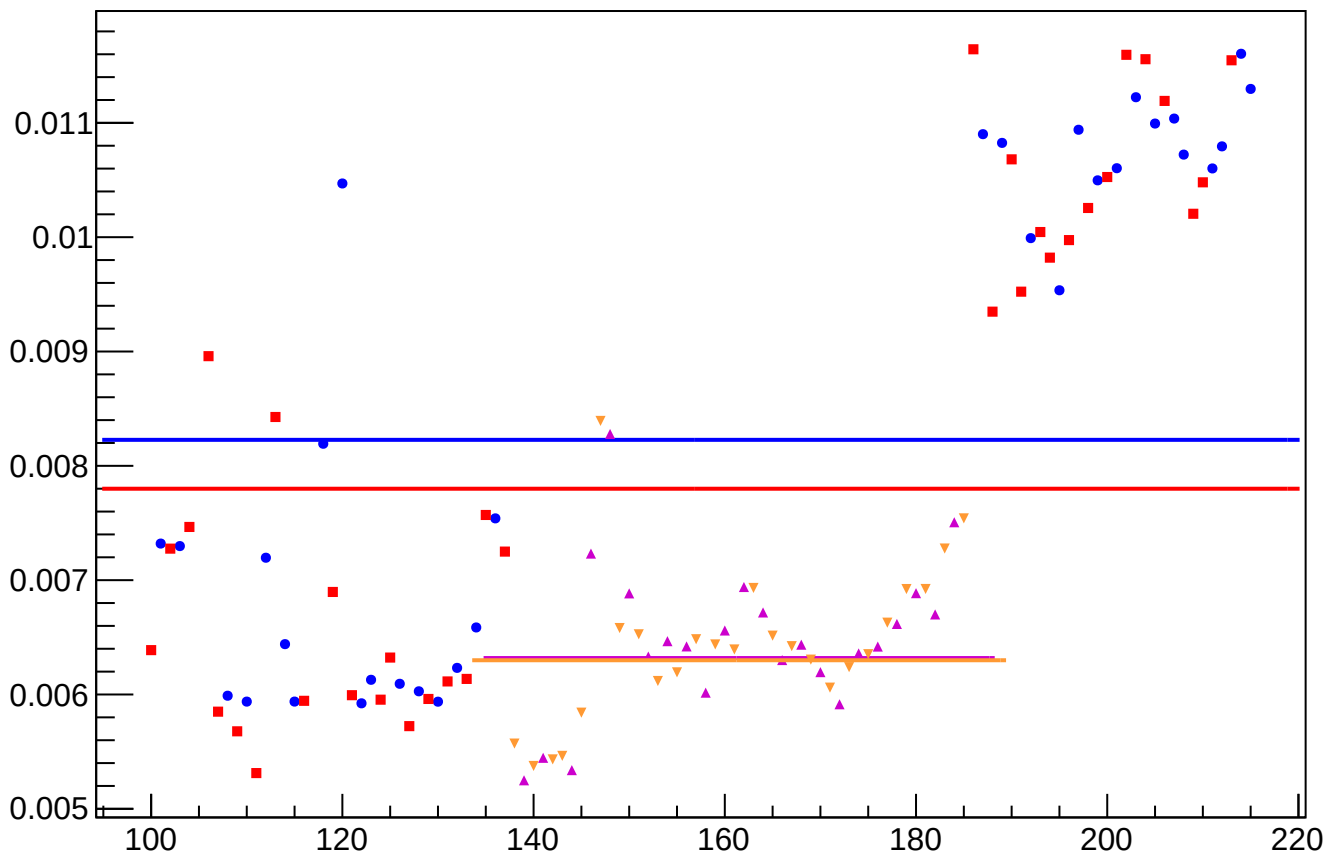
Right: -0.849 ± 0.000 $\chi^2/\text{NDF}: 494824559856.2/65$

In: -1.336 ± 0.000 $\chi^2/\text{NDF}: 380610707365.0/54$

Out: -1.403 ± 0.000 $\chi^2/\text{NDF}: 352113612577.0/58$

All: -1.371 ± 0.000 $\chi^2/\text{NDF}: 734241478599.3$

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2072333.8/31

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2254500.3/33

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

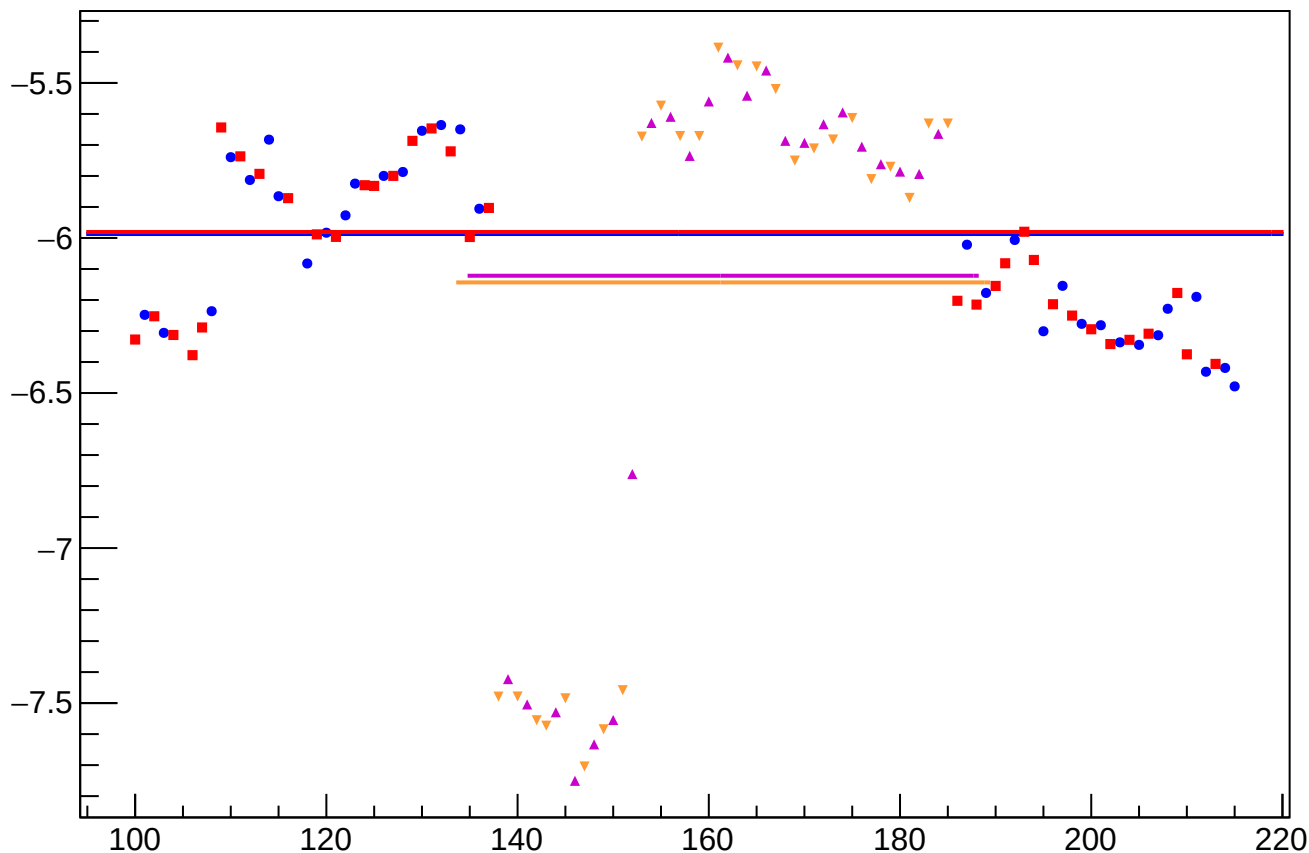
Right: 0.008+/-0.000 χ^2/NDF : 4370877.5/65

In: 0.007+/-0.000 χ^2/NDF :3480620.5/54

Out: 0.007+/-0.000 χ^2/NDF :3293379.4/58

All: 0.007+/-0.000 χ^2/NDF : 6789333.2/113

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.987+/-0.000 χ^2/NDF : 17542912306.5/31

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.981+/-0.000 χ^2/NDF : 17717380176.7/33

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

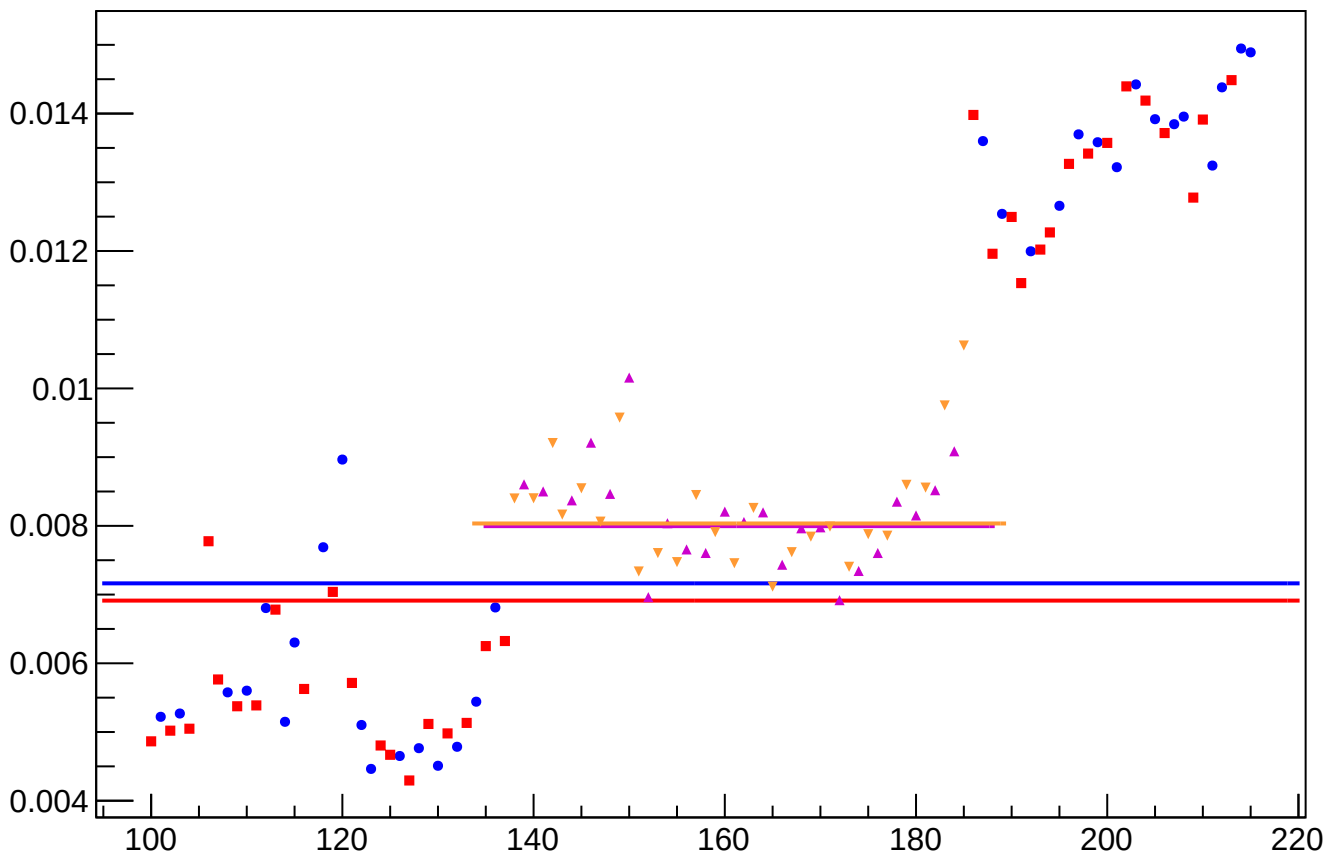
Right: -5.984+/-0.000 χ^2/NDF : 35266062090.6/65

In: -6.053+/-0.000 χ^2/NDF : 179743079621.9/54

Out: -6.059+/-0.000 χ^2/NDF : 206985372771.7/58

All: -6.056+/-0.000 χ^2/NDF : 386735717931.3

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6269183.9/31

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5796814.9/33

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

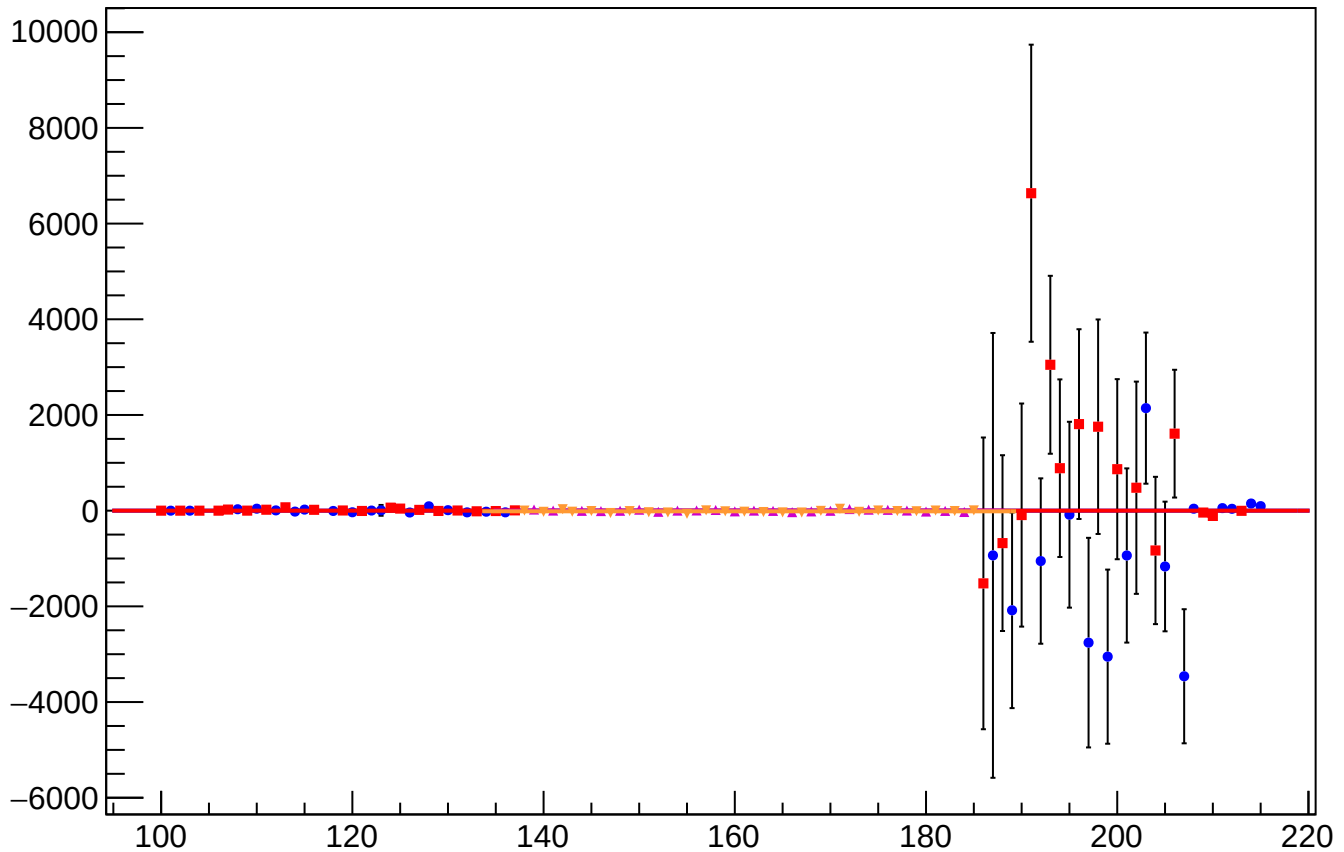
Right: 0.007+/-0.000 χ^2/NDF : 12082881.7/65

In: 0.008+/-0.000 χ^2/NDF :6664795.8/54

Out: 0.007+/-0.000 χ^2/NDF :6340562.2/58

All: 0.008+/-0.000 χ^2/NDF : 13013132.0/113

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 46.8/31

Left Out: -13.472 $\pm$ 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 32.6/33

Left In: 0.489 $\pm$ 2.905 χ^2/NDF : 28.7/22

Left: -6.758 $\pm$ 2.015 χ^2/NDF : 99.2/47

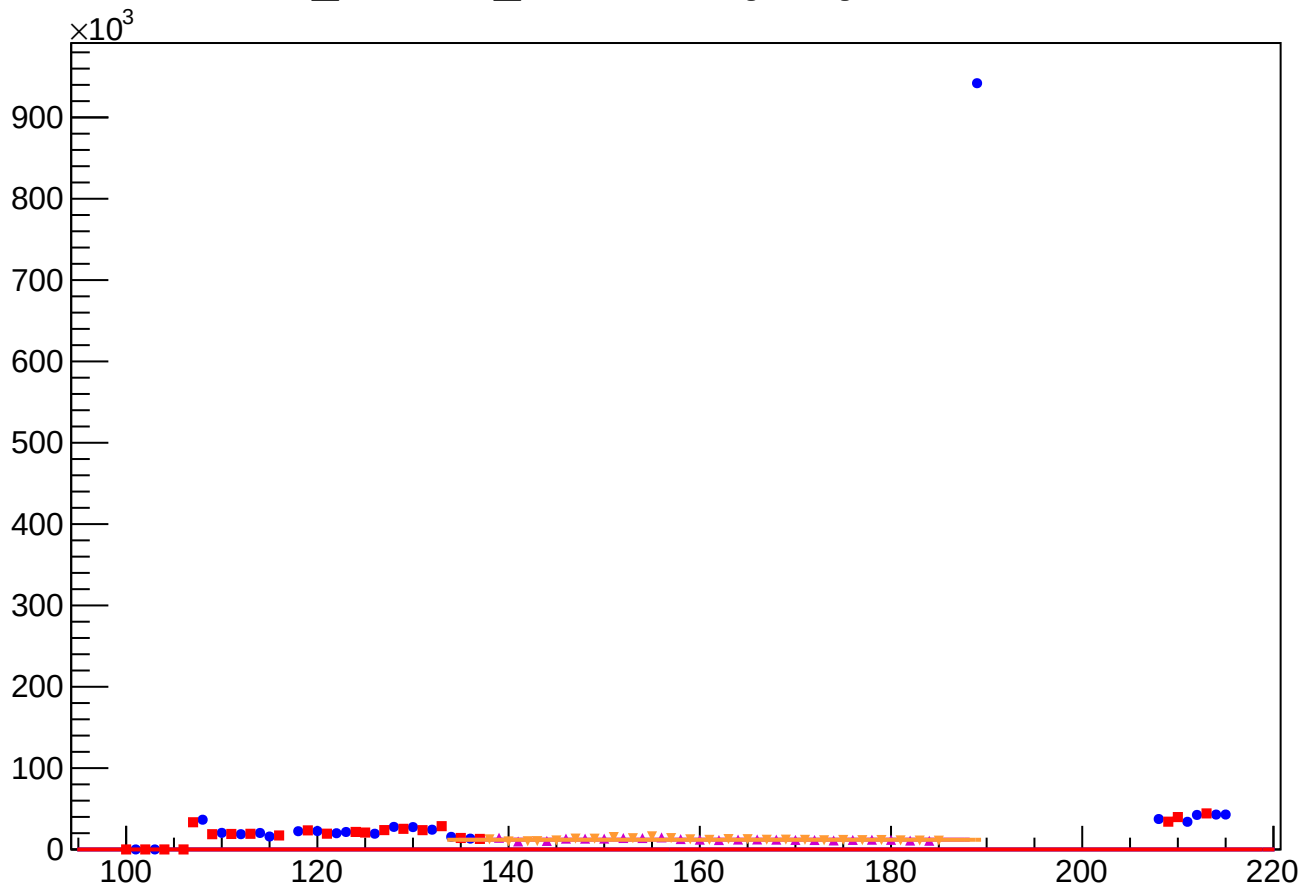
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 79.9/65

In: 0.013 $\pm$ 0.017 χ^2/NDF : 75.5/54

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 114.3/58

All: 0.004 $\pm$ 0.012 χ^2/NDF : 190.3/113

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.667 $\pm$ 0.012 χ^2 /NDF: 18016290.7/22

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.325 $\pm$ 0.011 χ^2 /NDF: 15370584.5/21

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

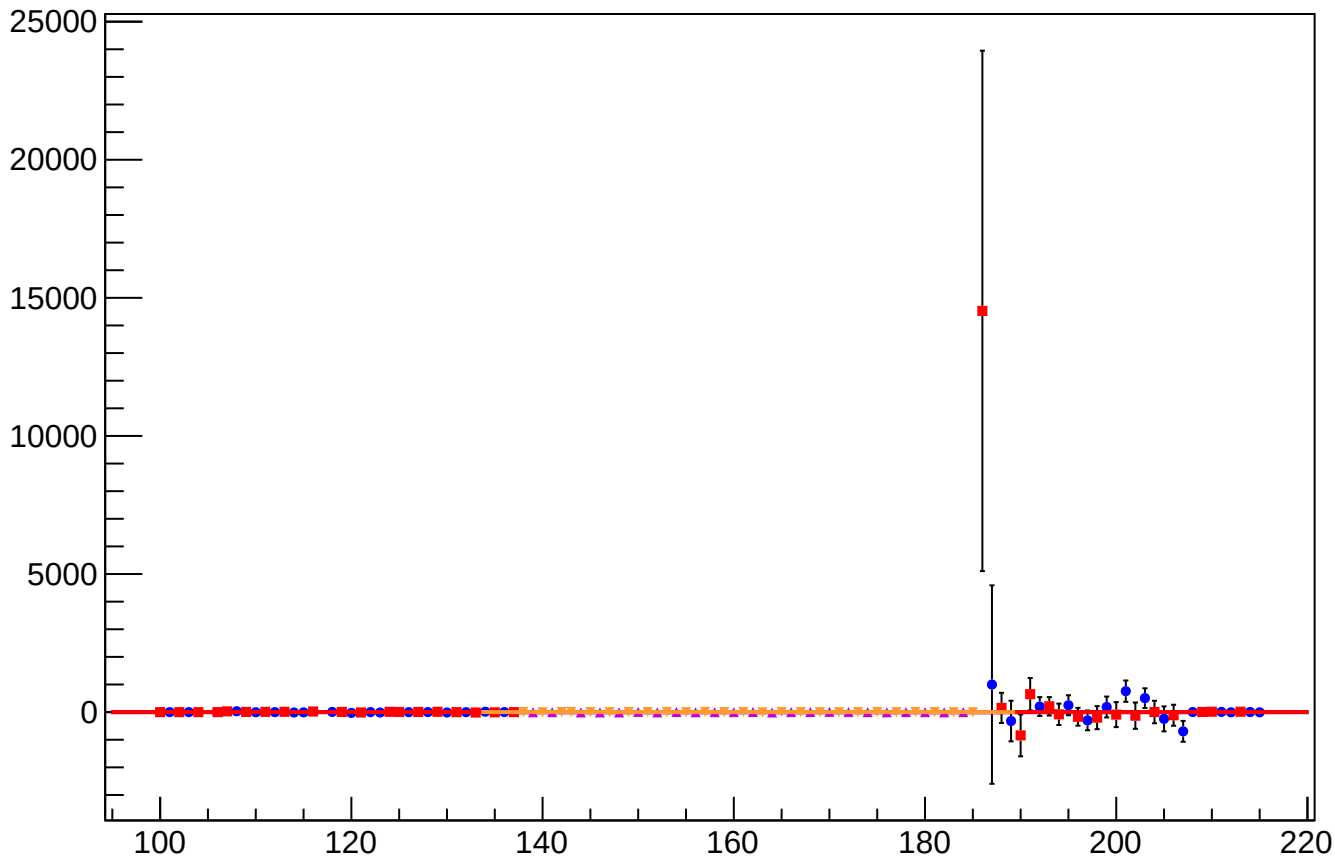
Right: 18.483 $\pm$ 0.008 χ^2 /NDF: 33387293.3/44

In: 19.096 $\pm$ 0.012 χ^2 /NDF: 52766630.5/45

Out: 18.718 $\pm$ 0.011 χ^2 /NDF: 52012938.4/46

All: 18.893 $\pm$ 0.008 χ^2 /NDF: 104780079.5/92

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 29.4/31

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 33.0/33

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

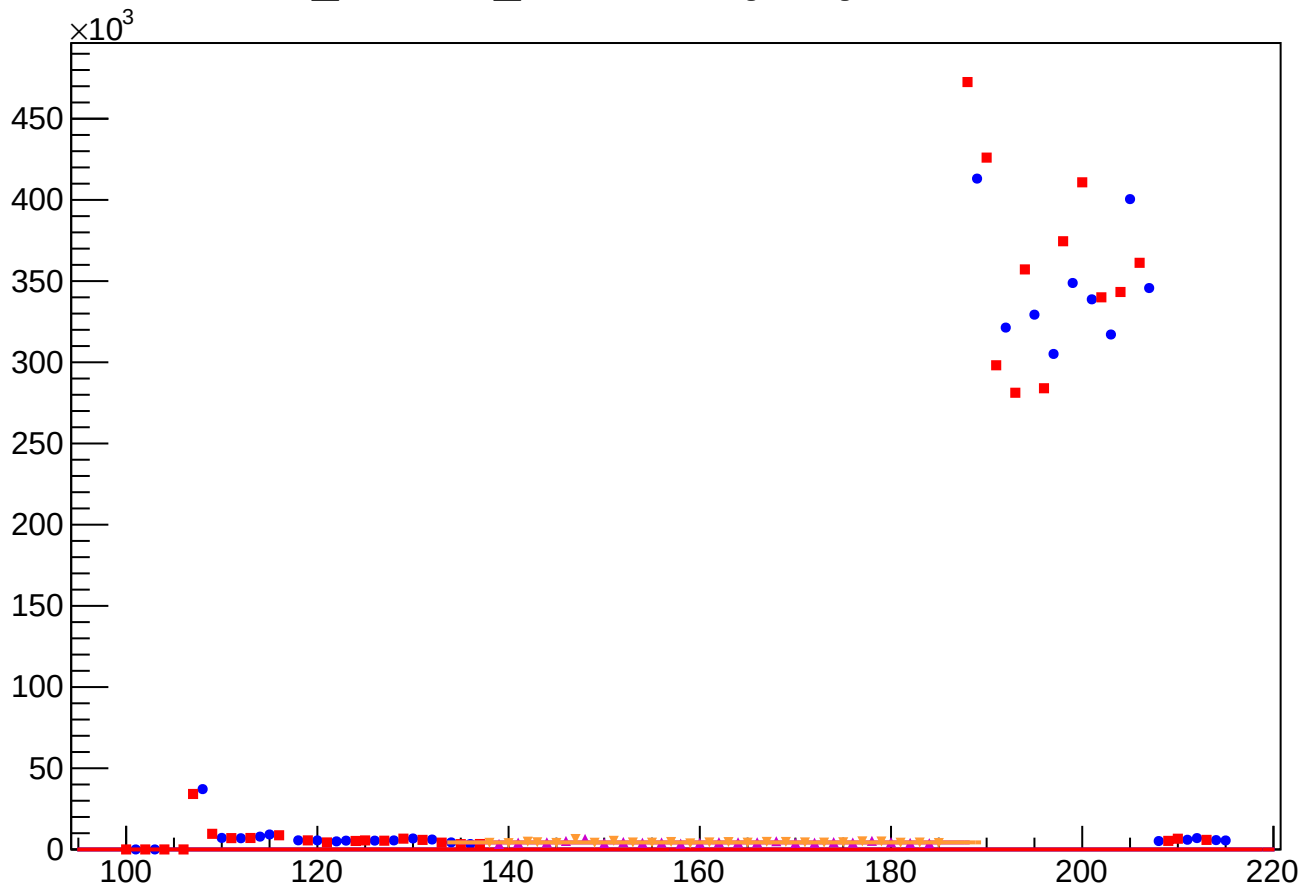
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 63.8/65

In: 0.001 $\pm$ 0.009 χ^2 /NDF:65.7/54

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:53.7/58

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 120.8/113

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.990 ± 0.007 χ^2/NDF : 31457720.9/30

Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24

Right Out: 9.883 ± 0.006 χ^2/NDF : 30157586.5/32

Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47

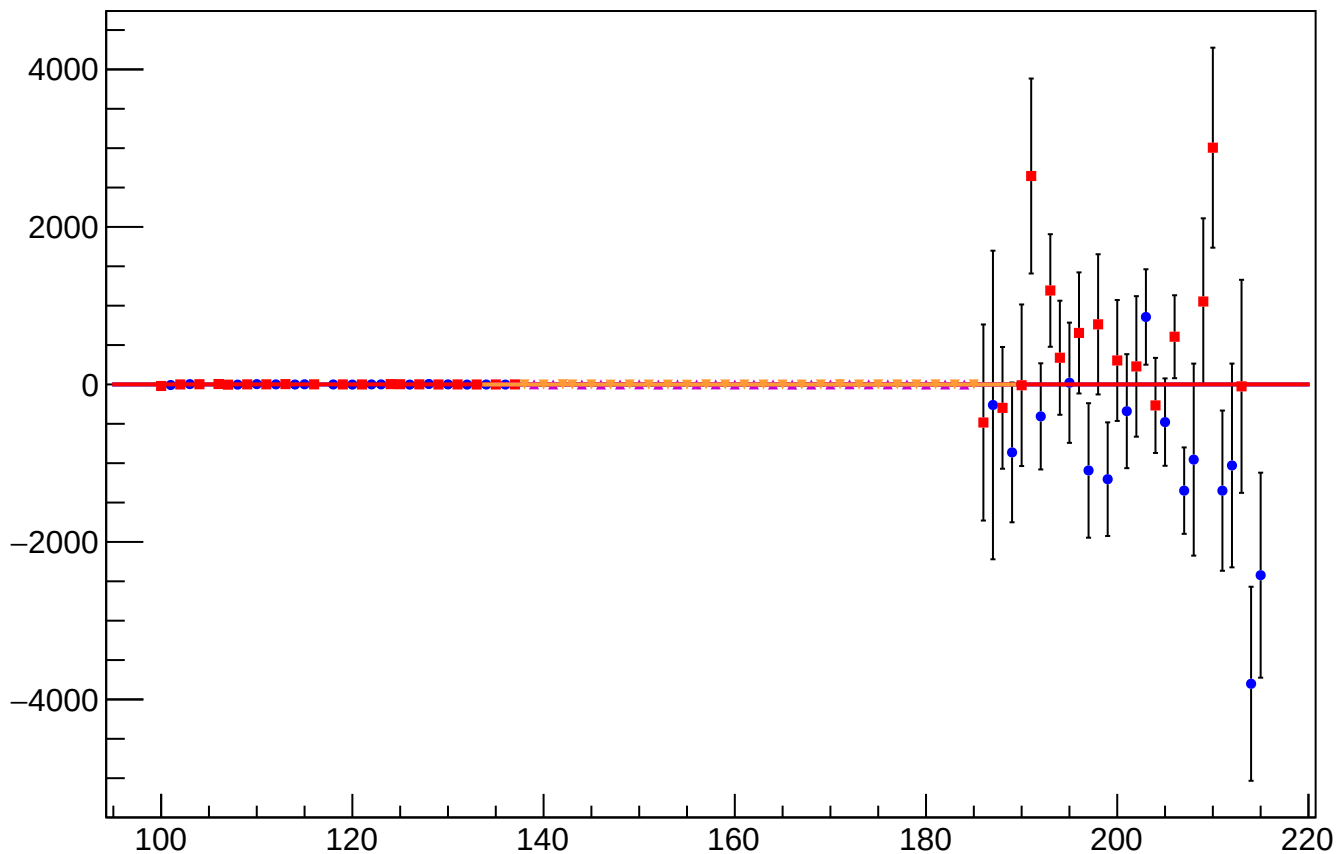
Right: 9.933 ± 0.004 χ^2/NDF : 61615451.0/63

In: 10.325 ± 0.007 χ^2/NDF : 66052930.3/53

Out: 10.194 ± 0.006 χ^2/NDF : 66686840.6/57

All: 10.255 ± 0.004 χ^2/NDF : 132739984.3/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.706 ± 0.485 $\chi^2/\text{NDF}: 53.2/31$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.763 ± 0.502 $\chi^2/\text{NDF}: 29.4/33$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

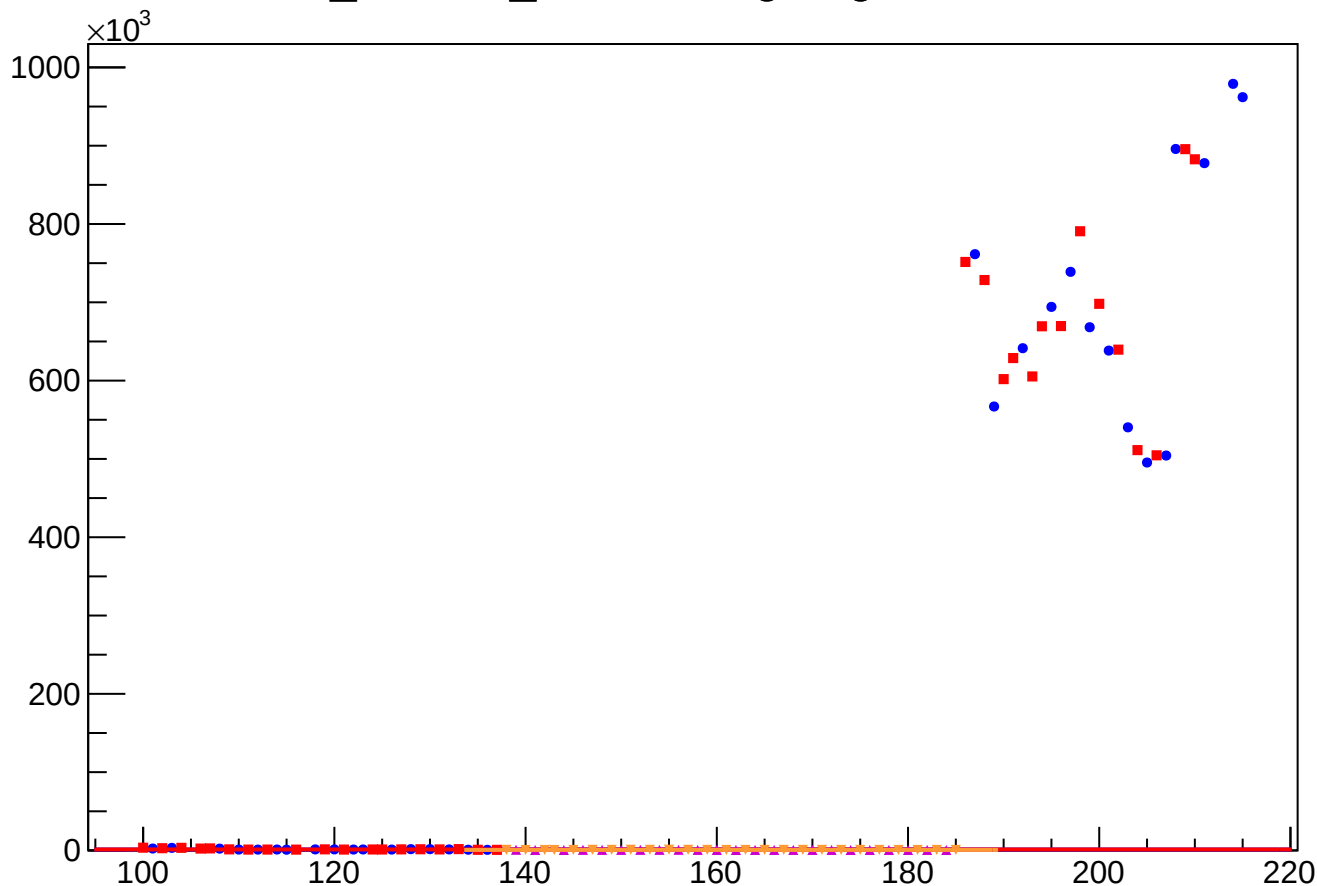
Right: 0.003 ± 0.349 $\chi^2/\text{NDF}: 87.1/65$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 84.4/54$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 96.3/58$

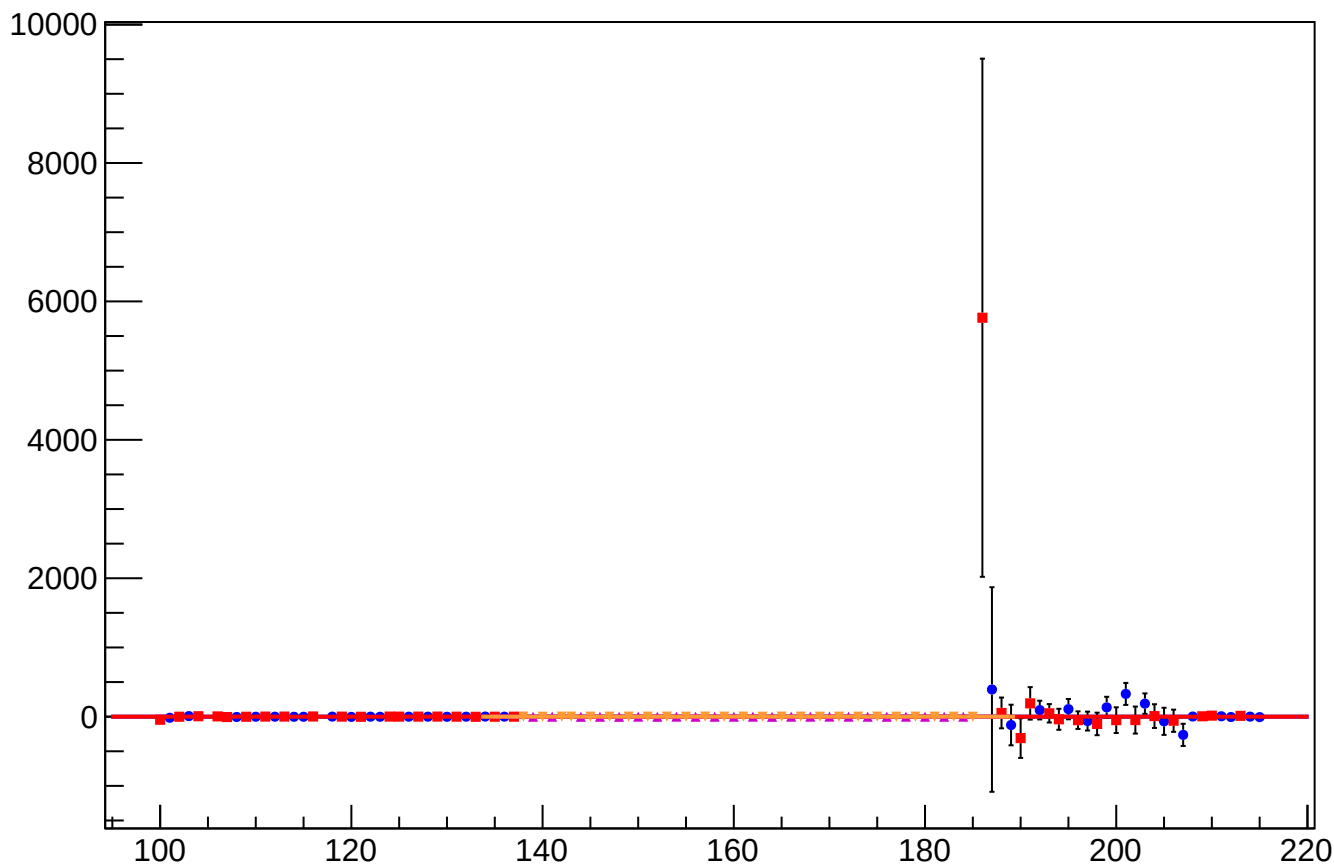
All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 187.1/113$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.348 $\pm$ 0.343	χ^2 /NDF: 18558261.3/30	Left: 703.766 $\pm$ 0.084	χ^2 /NDF: 732052.1/47
Left Out: 700.797 $\pm$ 0.116	χ^2 /NDF: 392521.4/24	Right: 1208.511 $\pm$ 0.247	χ^2 /NDF: 37570032.7/63
Right Out: 1252.624 $\pm$ 0.355	χ^2 /NDF: 18981927.6/32	In: 757.388 $\pm$ 0.114	χ^2 /NDF: 20501158.3/53
Left In: 706.950 $\pm$ 0.120	χ^2 /NDF: 338177.1/22	Out: 754.172 $\pm$ 0.110	χ^2 /NDF: 21556615.4/57
		All: 755.735 $\pm$ 0.079	χ^2 /NDF: 42058186.0/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.061 ± 0.269 χ^2/NDF : 35.1/31

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.178 ± 0.264 χ^2/NDF : 37.2/33

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

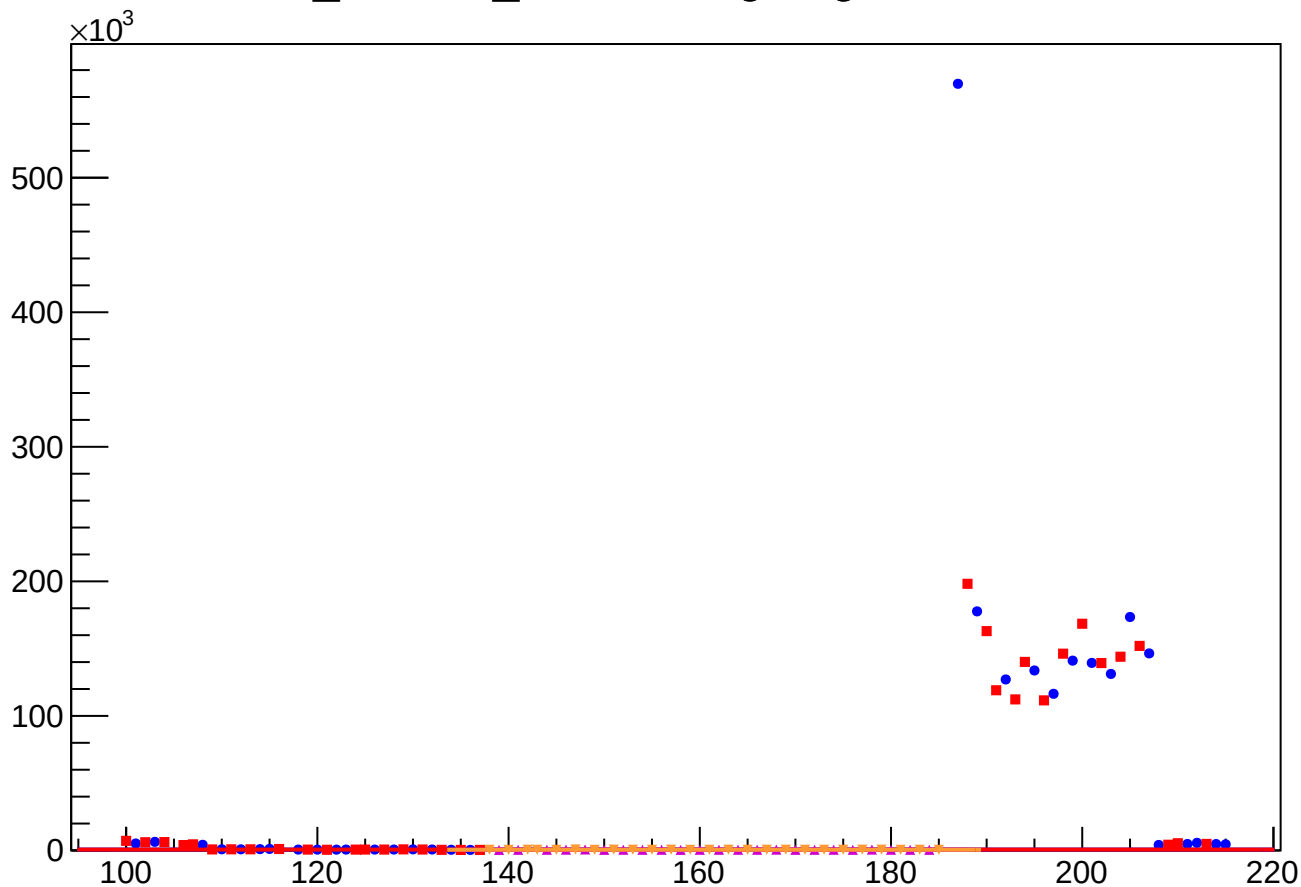
Right: -0.121 ± 0.188 χ^2/NDF : 72.4/65

In: -0.106 ± 0.114 χ^2/NDF : 70.1/54

Out: 0.163 ± 0.111 χ^2/NDF : 56.8/58

All: 0.032 ± 0.079 χ^2/NDF : 129.8/113

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 658.528+/-0.190 χ^2/NDF : 22251985.6/31

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 630.598+/-0.187 χ^2/NDF : 21581758.2/32

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

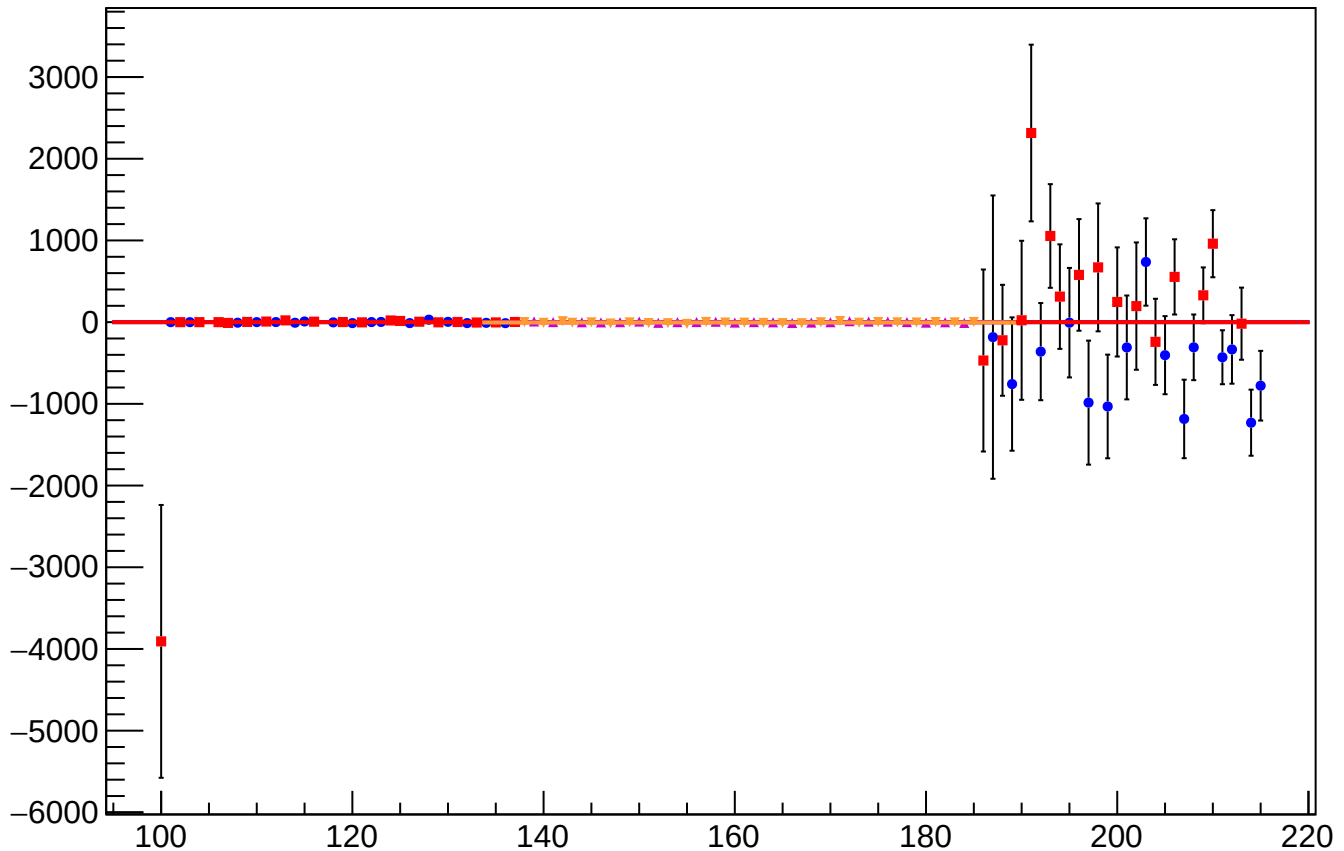
Right: 644.298+/-0.133 χ^2/NDF : 43844726.6/64

In: 544.682+/-0.080 χ^2/NDF : 23132824.3/54

Out: 541.581+/-0.079 χ^2/NDF : 22189734.8/57

All: 543.095+/-0.056 χ^2/NDF : 45323319.8/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 45.6/31

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 34.4/33

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

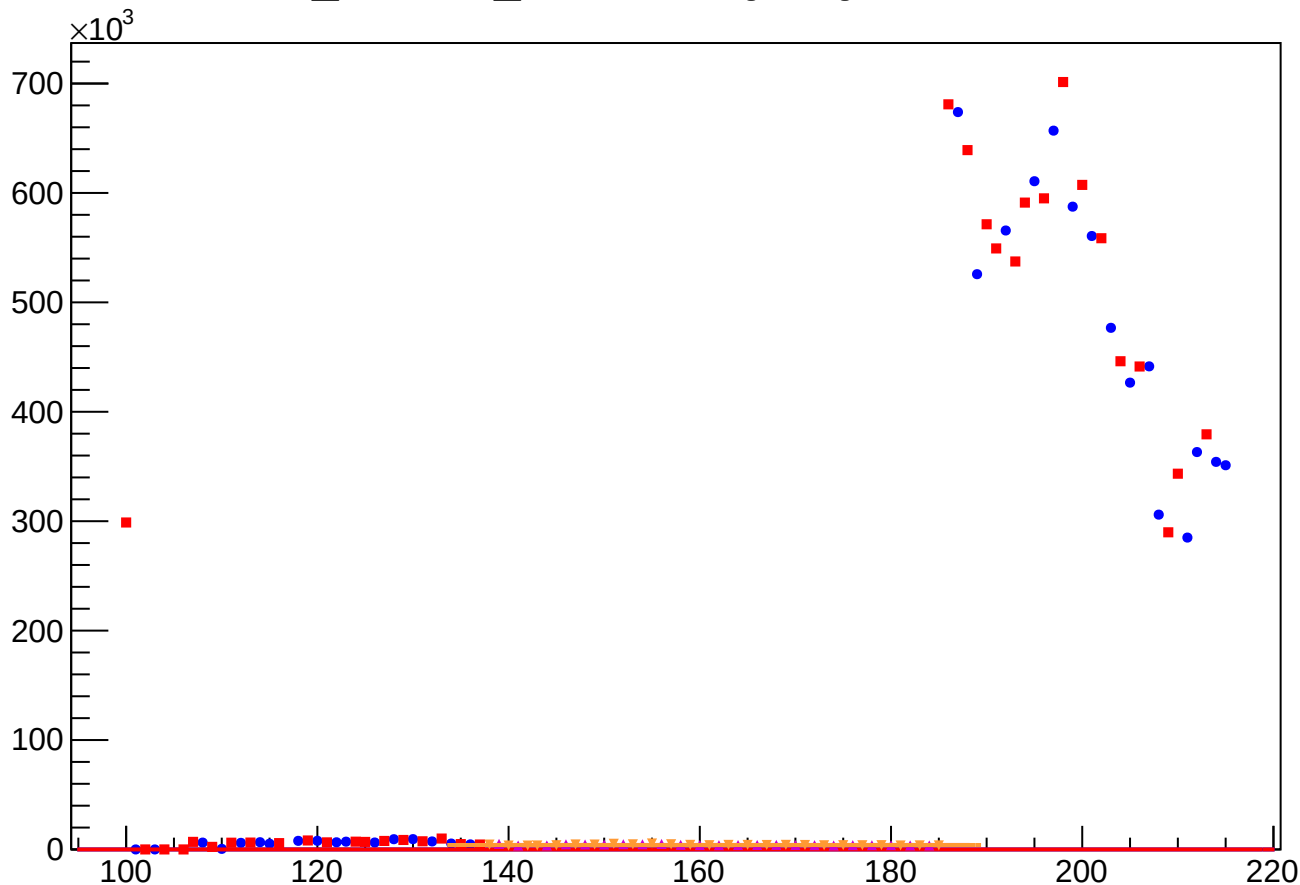
Right: 0.004 ± 0.014 χ^2/NDF : 82.9/65

In: -0.022 ± 0.021 χ^2/NDF : 74.9/54

Out: 0.025 ± 0.020 χ^2/NDF : 114.8/58

All: 0.003 ± 0.014 χ^2/NDF : 192.3/113

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.346+/-0.015 χ^2 /NDF: 31603749.0/31

Left Out: 4074.257+/-0.676 χ^2 /NDF:416916.0/24

Right Out: 17.275+/-0.014 χ^2 /NDF: 31001732.7/33

Left In: 4113.744+/-0.700 χ^2 /NDF:354965.8/22

Left: 4093.298+/-0.486 χ^2 /NDF: 773528.6/47

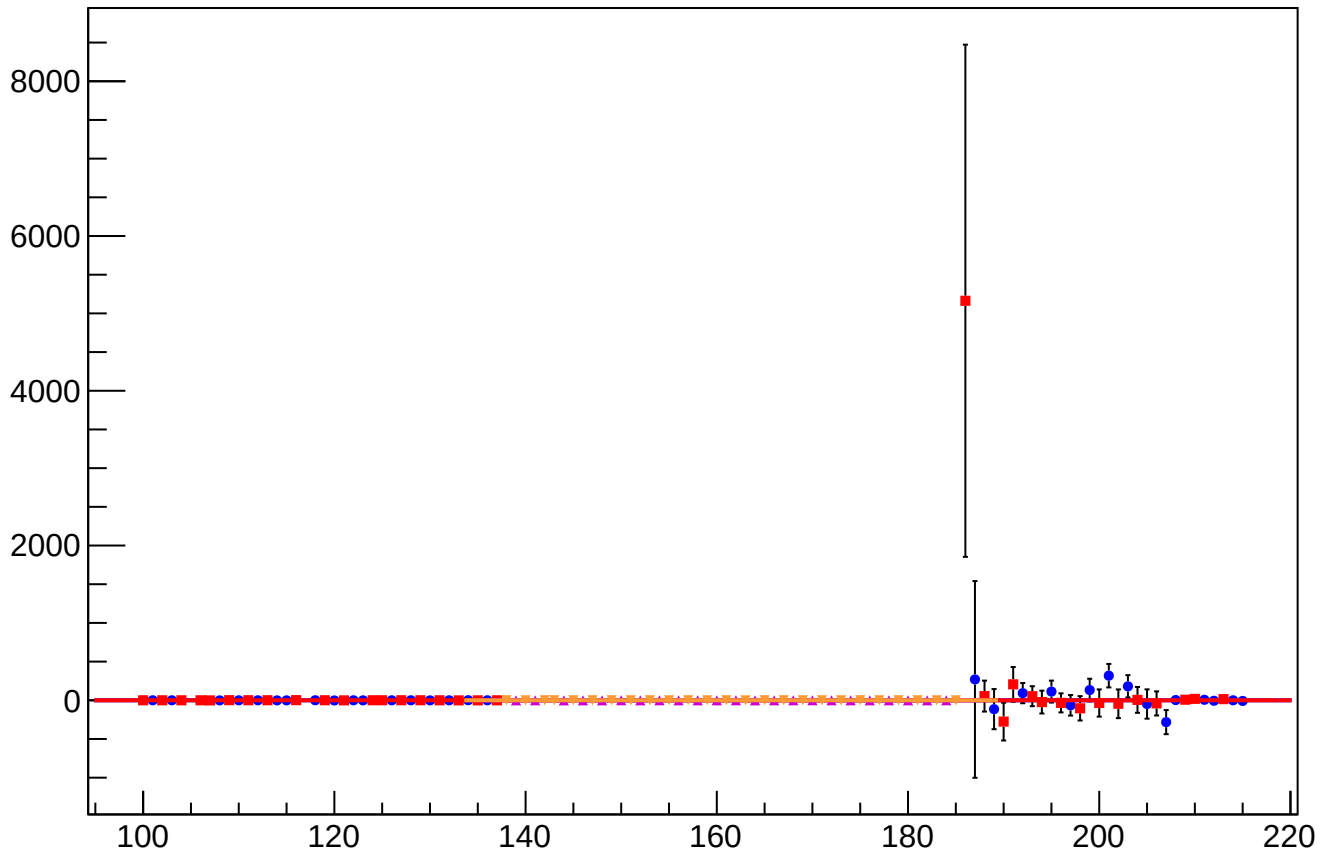
Right: 17.309+/-0.010 χ^2 /NDF: 62605493.8/65

In: 19.152+/-0.015 χ^2 /NDF:66172823.4/54

Out: 19.012+/-0.014 χ^2 /NDF:67454584.9/58

All: 19.078+/-0.010 χ^2 /NDF: 133627455.6/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 30.3/31

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 35.6/33

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

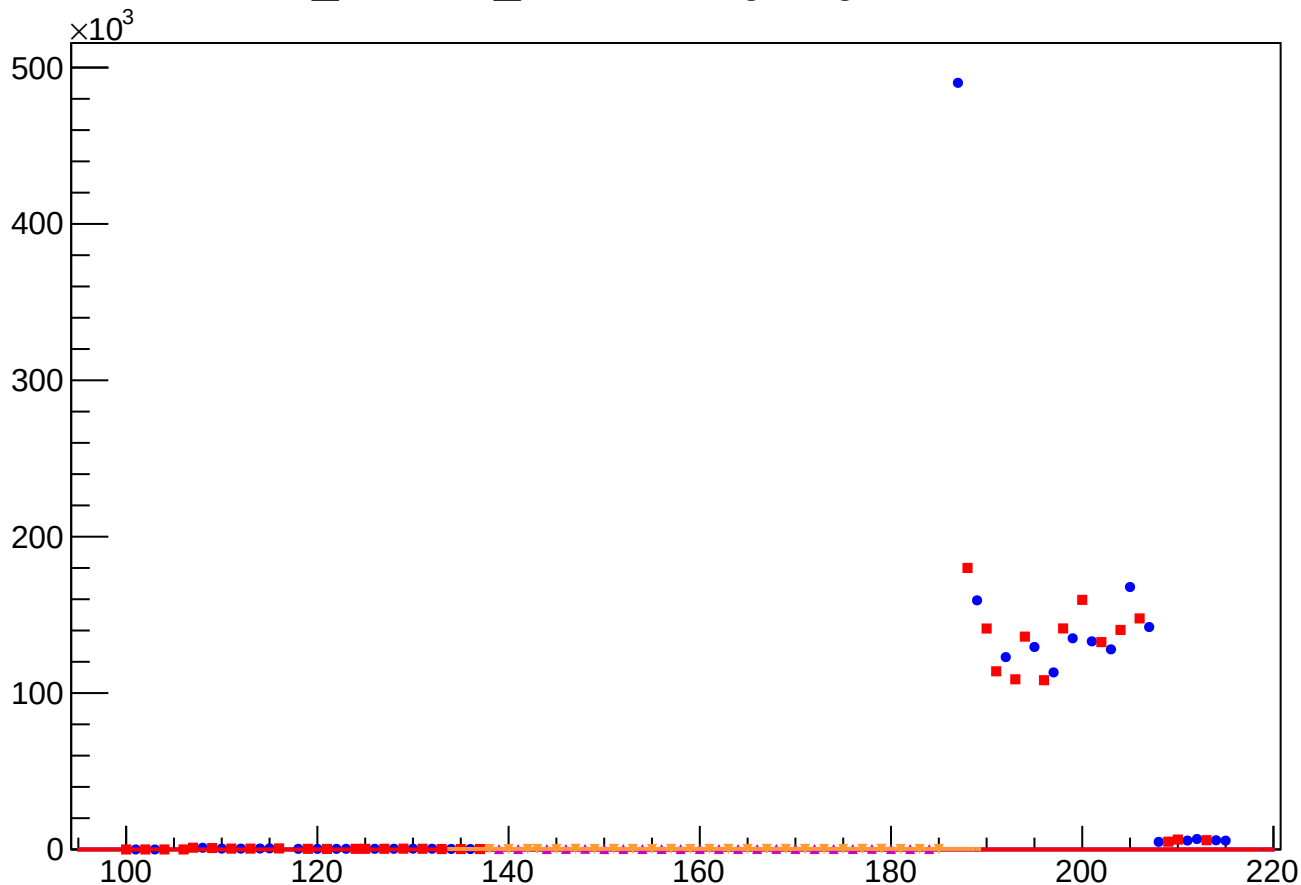
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 66.1/65

In: 0.000 $\pm$ 0.002 χ^2 /NDF:66.0/54

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:56.4/58

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 122.5/113

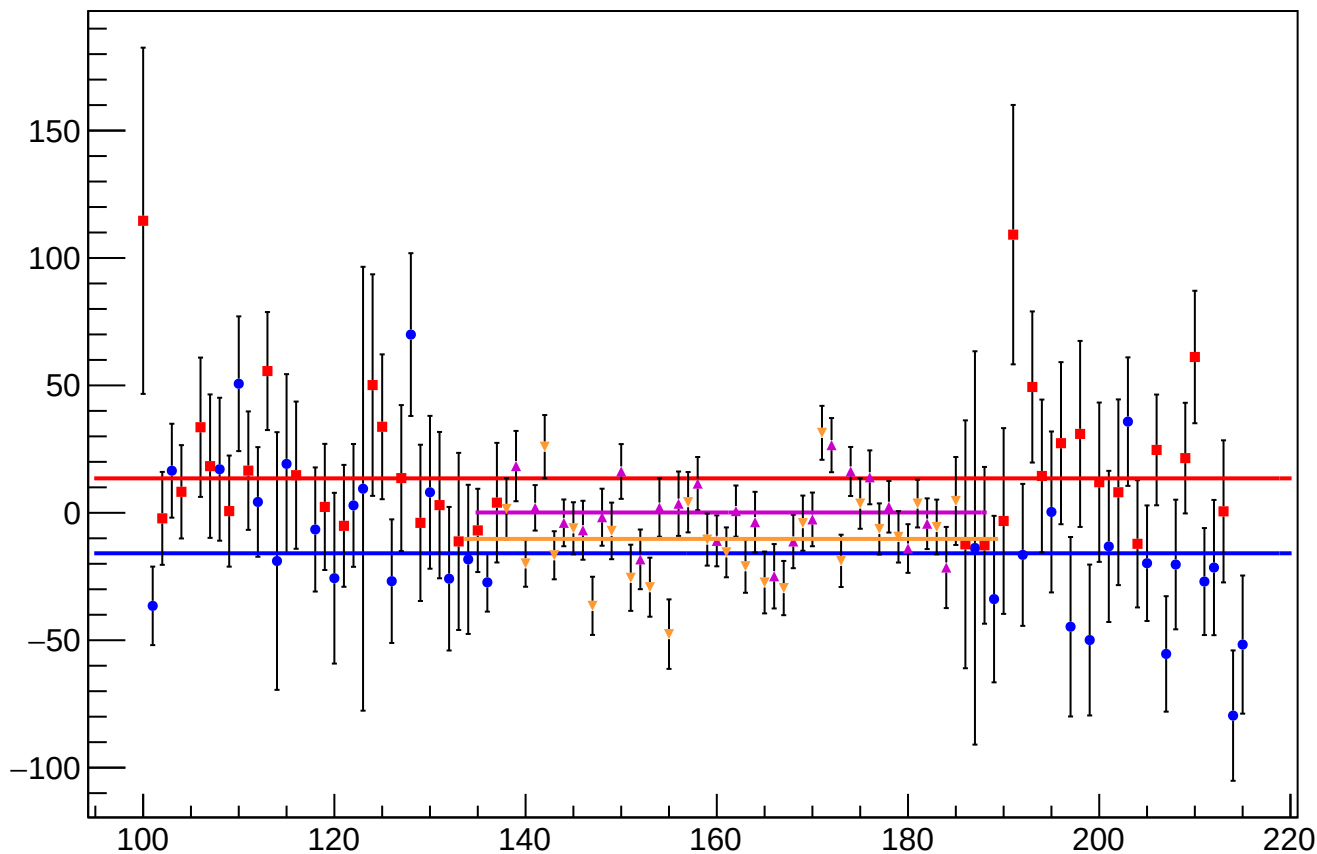
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.701 $\pm$ 0.001 χ^2 /NDF: 31862545.6/31
 Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24
 Right Out: 1.730 $\pm$ 0.001 χ^2 /NDF: 29942016.2/32
 Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47
 Right: 1.716 $\pm$ 0.001 χ^2 /NDF: 61804772.4/64
 In: 1.916 $\pm$ 0.001 χ^2 /NDF:66265441.5/54
 Out: 1.938 $\pm$ 0.001 χ^2 /NDF:66249509.4/57
 All: 1.928 $\pm$ 0.001 χ^2 /NDF: 132515076.2/112

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -15.880 ± 4.406 $\chi^2/\text{NDF}: 42.7/31$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 13.526 ± 4.571 $\chi^2/\text{NDF}: 23.7/33$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

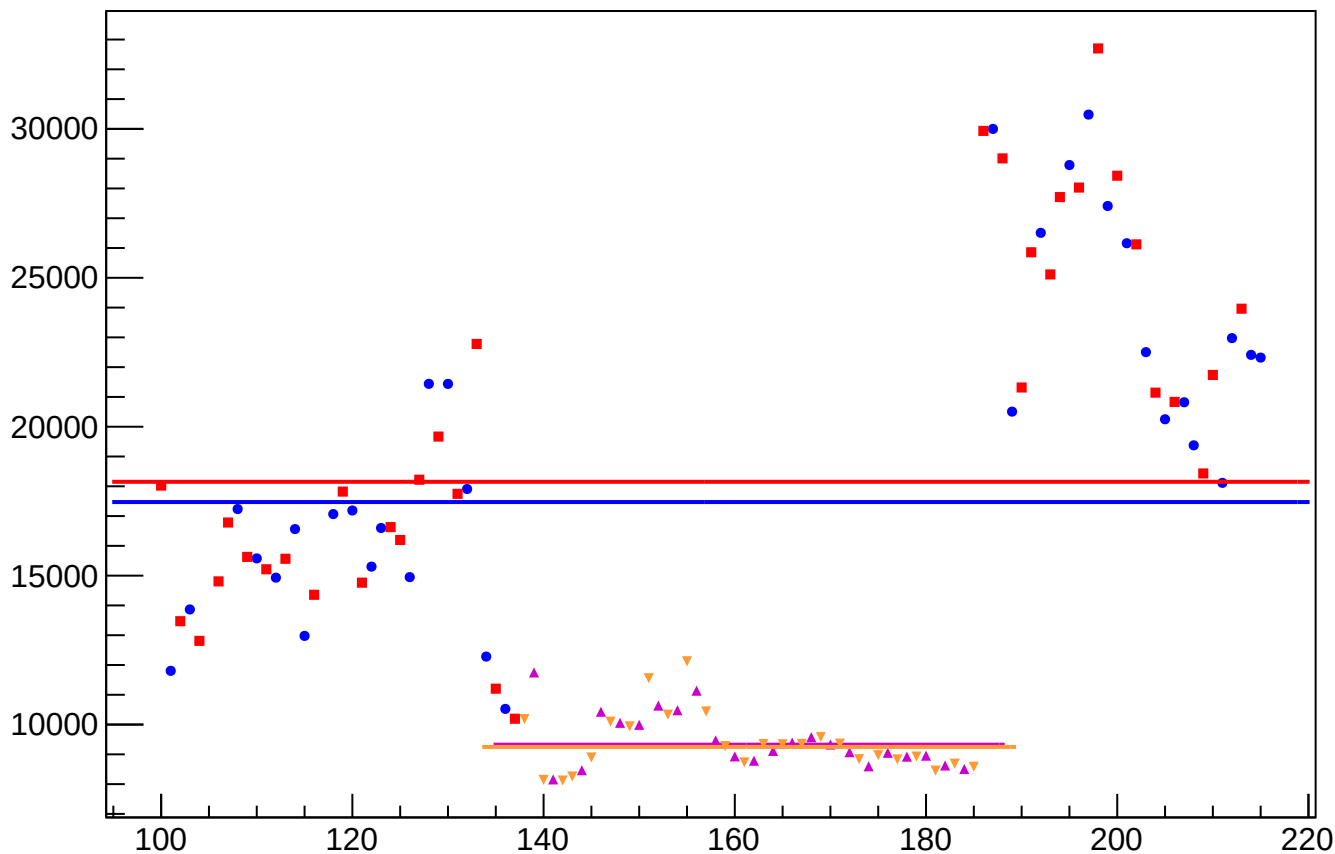
Right: -1.719 ± 3.172 $\chi^2/\text{NDF}: 87.9/65$

In: -3.164 ± 1.998 $\chi^2/\text{NDF}: 83.0/54$

Out: -5.876 ± 1.958 $\chi^2/\text{NDF}: 103.7/58$

All: -4.548 ± 1.398 $\chi^2/\text{NDF}: 187.7/113$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17470.512 $\pm$ 3.115 χ^2 /NDF: 2916503.1/31

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF: 332003.4/24

Right Out: 18150.709 $\pm$ 3.232 χ^2 /NDF: 2887452.9/33

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

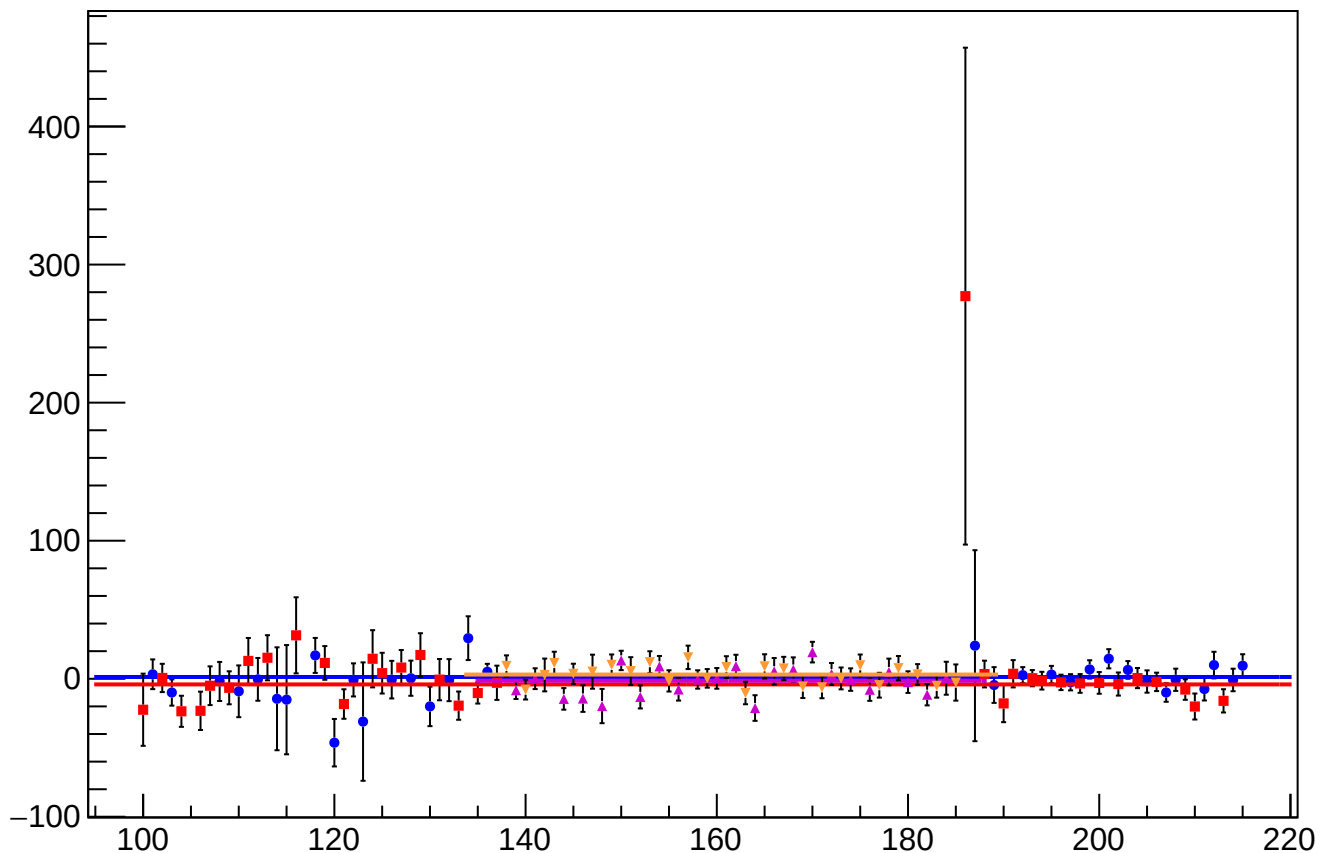
Right: 17798.071 $\pm$ 2.243 χ^2 /NDF: 5826914.5/65

In: 11000.903 $\pm$ 1.413 χ^2 /NDF: 8627564.7/54

Out: 10882.280 $\pm$ 1.384 χ^2 /NDF: 9412107.4/58

All: 10940.379 $\pm$ 0.989 χ^2 /NDF: 18043268.1

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.308 ± 1.644 χ^2/NDF : 29.5/31

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -4.077 ± 1.658 χ^2/NDF : 31.2/33

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

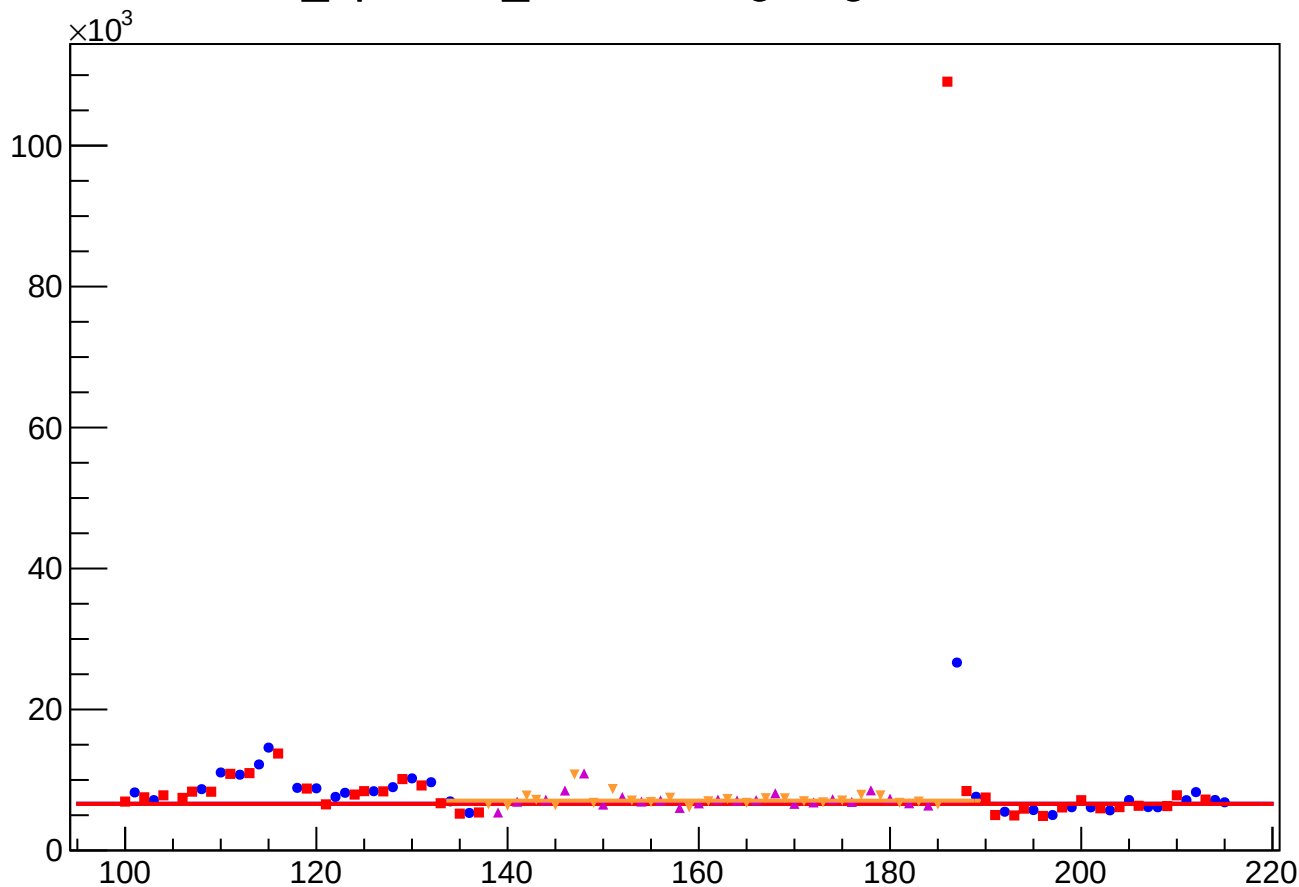
Right: -1.361 ± 1.167 χ^2/NDF : 66.0/65

In: -0.003 ± 1.179 χ^2/NDF : 66.2/54

Out: -0.510 ± 1.173 χ^2/NDF : 58.7/58

All: -0.258 ± 0.832 χ^2/NDF : 125.0/113

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6637.987 ± 1.162 $\chi^2/\text{NDF}: 1607532.3/31$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6606.523 ± 1.172 $\chi^2/\text{NDF}: 2150667.3/33$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

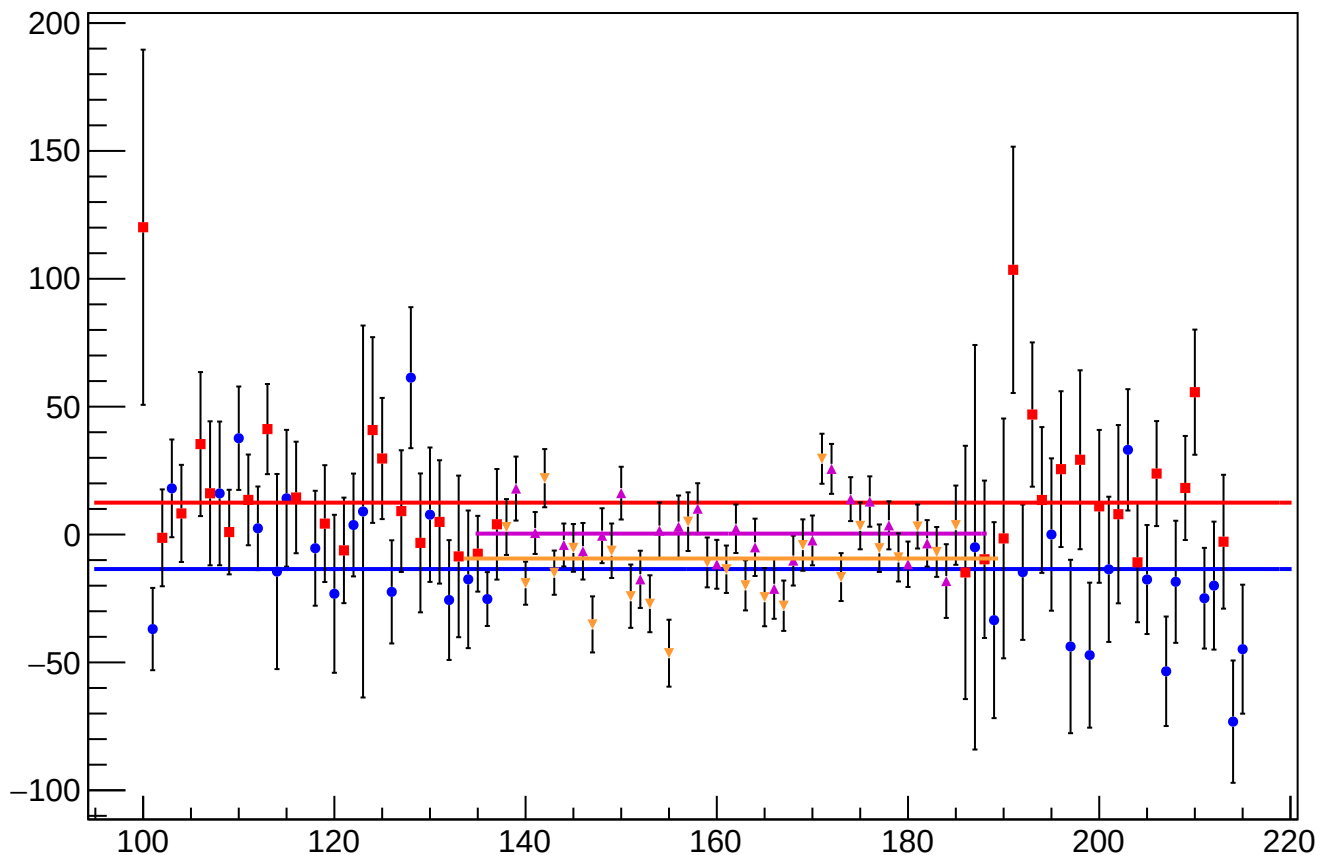
Right: 6622.389 ± 0.825 $\chi^2/\text{NDF}: 3758562.9/65$

In: 6813.865 ± 0.834 $\chi^2/\text{NDF}: 2204773.3/54$

Out: 6836.509 ± 0.829 $\chi^2/\text{NDF}: 2615170.4/58$

All: 6825.252 ± 0.588 $\chi^2/\text{NDF}: 4820314.4/11$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -13.500 ± 4.034 $\chi^2/\text{NDF}: 43.5/31$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 12.467 ± 4.145 $\chi^2/\text{NDF}: 23.0/33$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

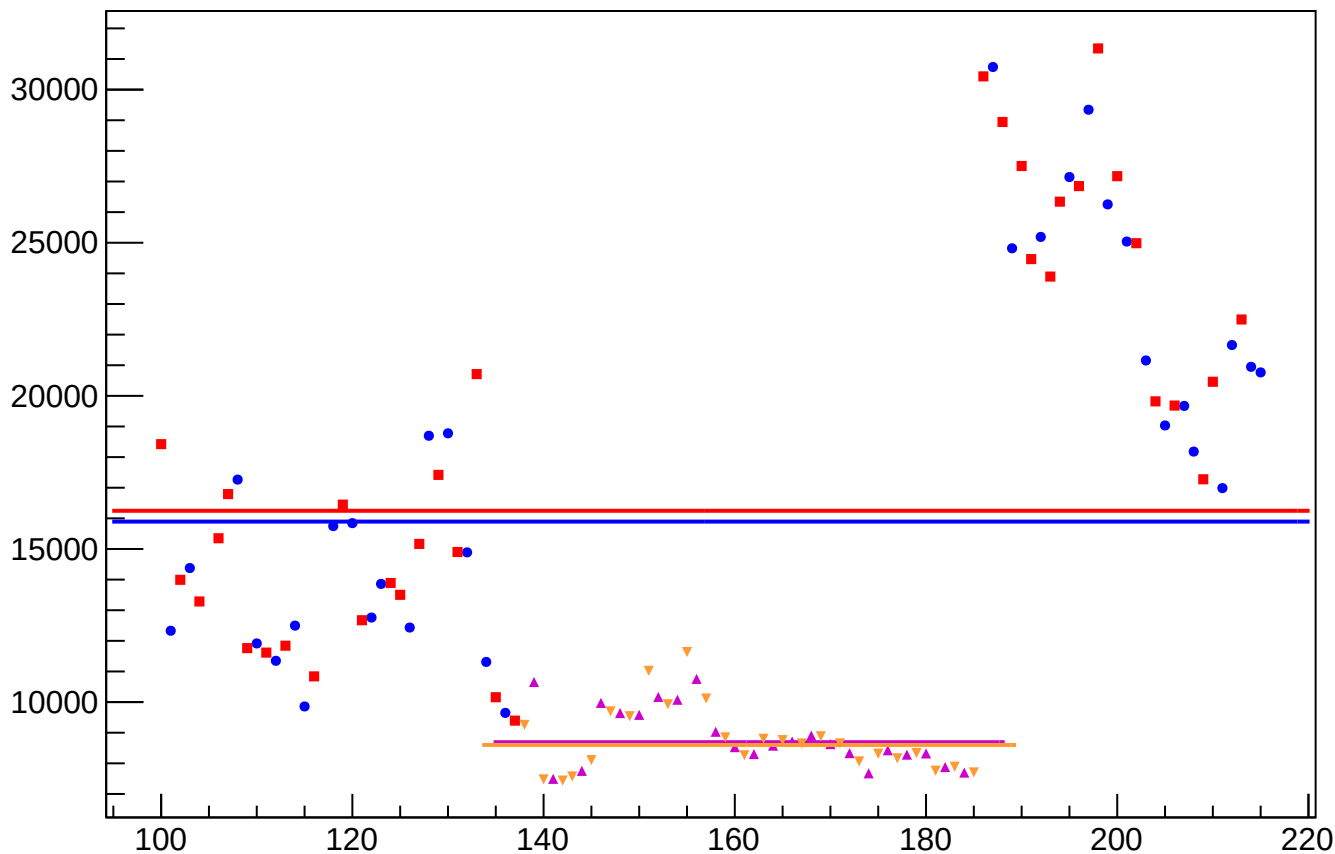
Right: -0.868 ± 2.891 $\chi^2/\text{NDF}: 86.7/65$

In: -2.583 ± 1.857 $\chi^2/\text{NDF}: 82.4/54$

Out: -5.191 ± 1.814 $\chi^2/\text{NDF}: 103.9/58$

All: -3.918 ± 1.298 $\chi^2/\text{NDF}: 187.3/113$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15894.435 $\pm$ 2.852 χ^2/NDF : 3384288.4/31

Left Out: 8600.457 $\pm$ 1.427 χ^2/NDF : 438229.4/24

Right Out: 16247.390 $\pm$ 2.931 χ^2/NDF : 3666209.4/33

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

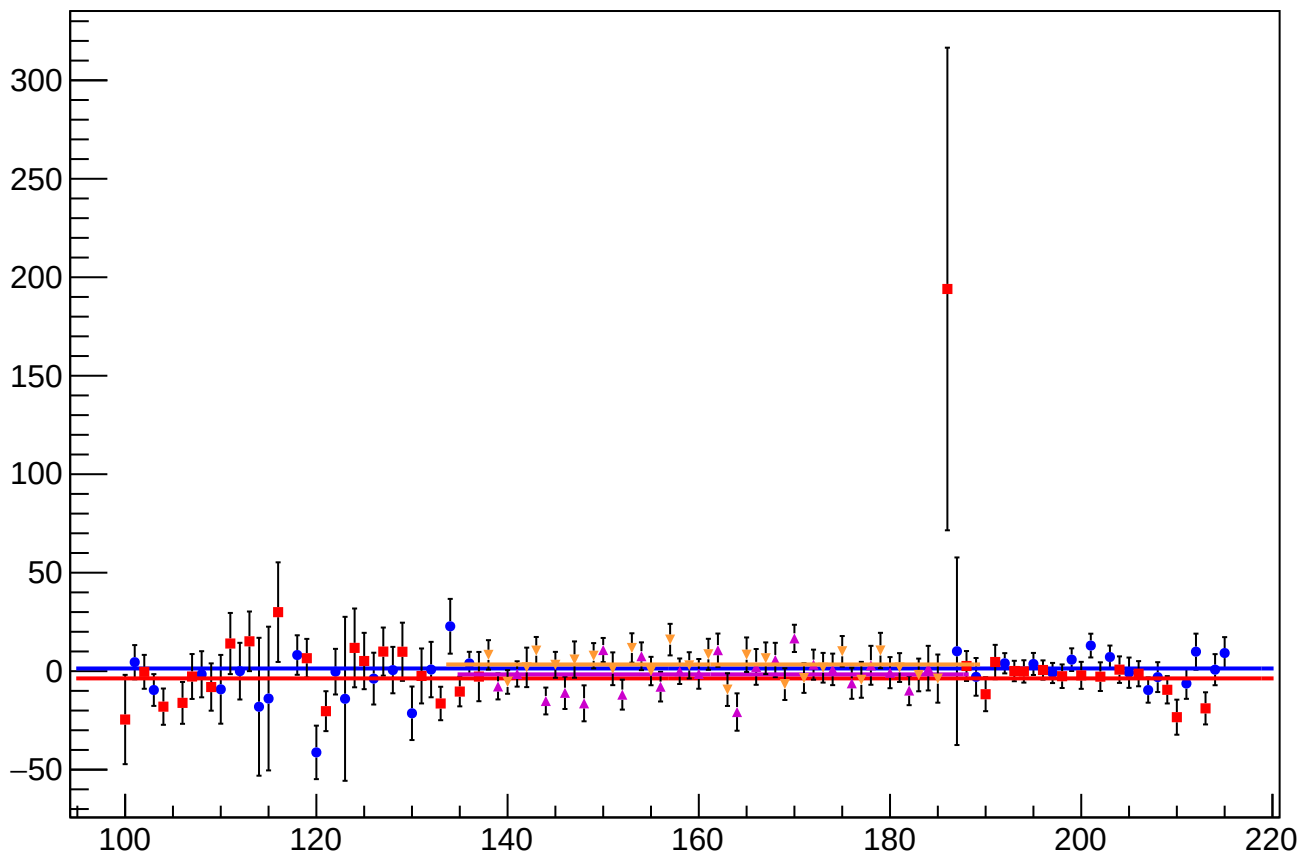
Right: 16066.133 $\pm$ 2.044 χ^2/NDF : 7057946.1/65

In: 10217.360 $\pm$ 1.313 χ^2/NDF : 8781842.4/54

Out: 10065.554 $\pm$ 1.283 χ^2/NDF : 9608054.0/58

All: 10139.676 $\pm$ 0.918 χ^2/NDF : 18396733.9

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.367 $\pm$ 1.488 χ^2/NDF : 31.2/31

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -3.675 $\pm$ 1.474 χ^2/NDF : 35.9/33

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

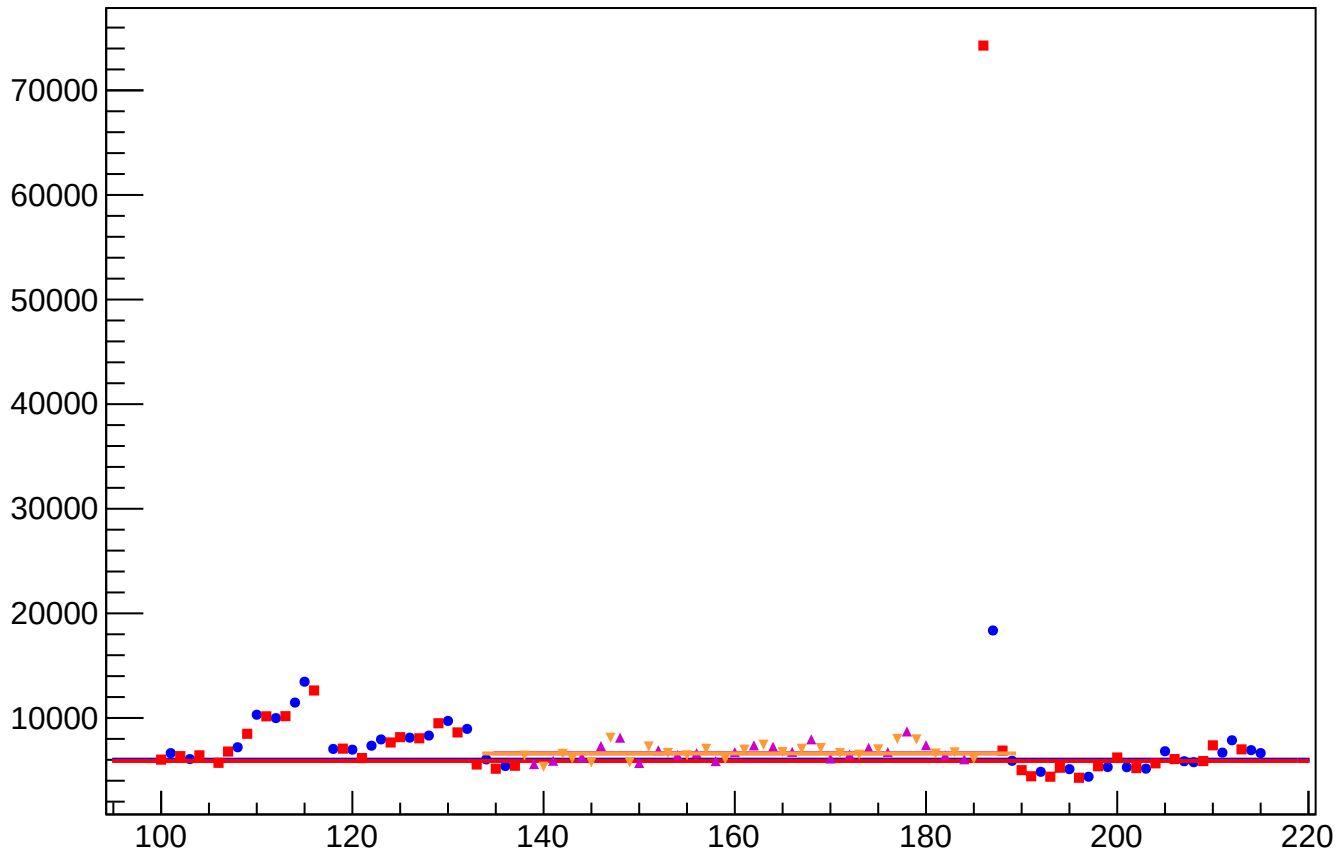
Right: -1.177 $\pm$ 1.047 χ^2/NDF : 72.9/65

In: -0.022 $\pm$ 1.089 χ^2/NDF : 66.5/54

Out: -0.312 $\pm$ 1.068 χ^2/NDF : 63.7/58

All: -0.170 $\pm$ 0.763 χ^2/NDF : 130.3/113

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6012.397 $\pm$ 1.052 χ^2/NDF : 1639235.8/31

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 5889.548 $\pm$ 1.043 χ^2/NDF : 2232326.0/33

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

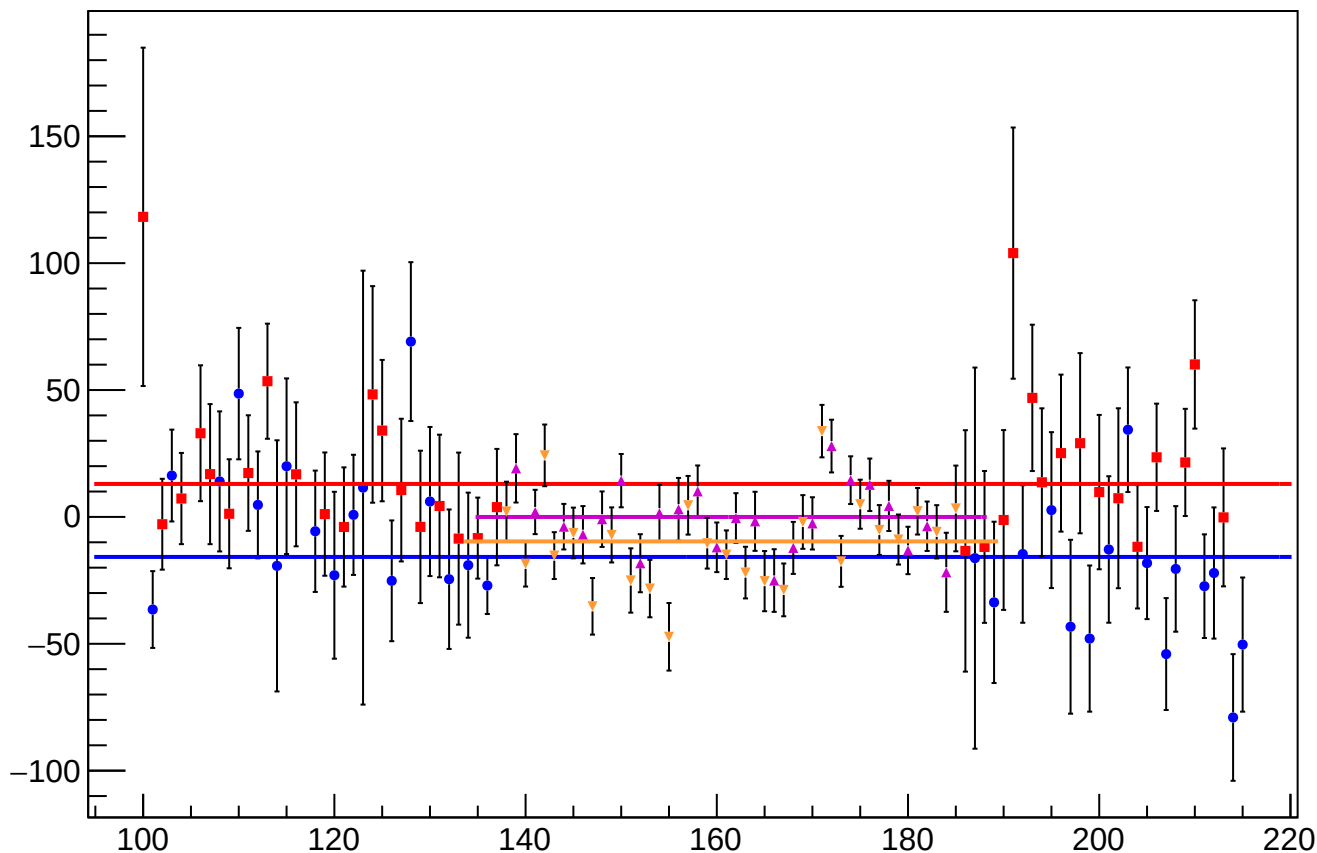
Right: 5950.415 $\pm$ 0.741 χ^2/NDF : 3878441.0/65

In: 6298.348 $\pm$ 0.770 χ^2/NDF : 2228721.1/54

Out: 6230.306 $\pm$ 0.756 χ^2/NDF : 2855686.8/58

All: 6263.670 $\pm$ 0.539 χ^2/NDF : 5088385.0/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -15.771 ± 4.307 $\chi^2/\text{NDF}: 42.7/31$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 12.996 ± 4.470 $\chi^2/\text{NDF}: 23.7/33$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

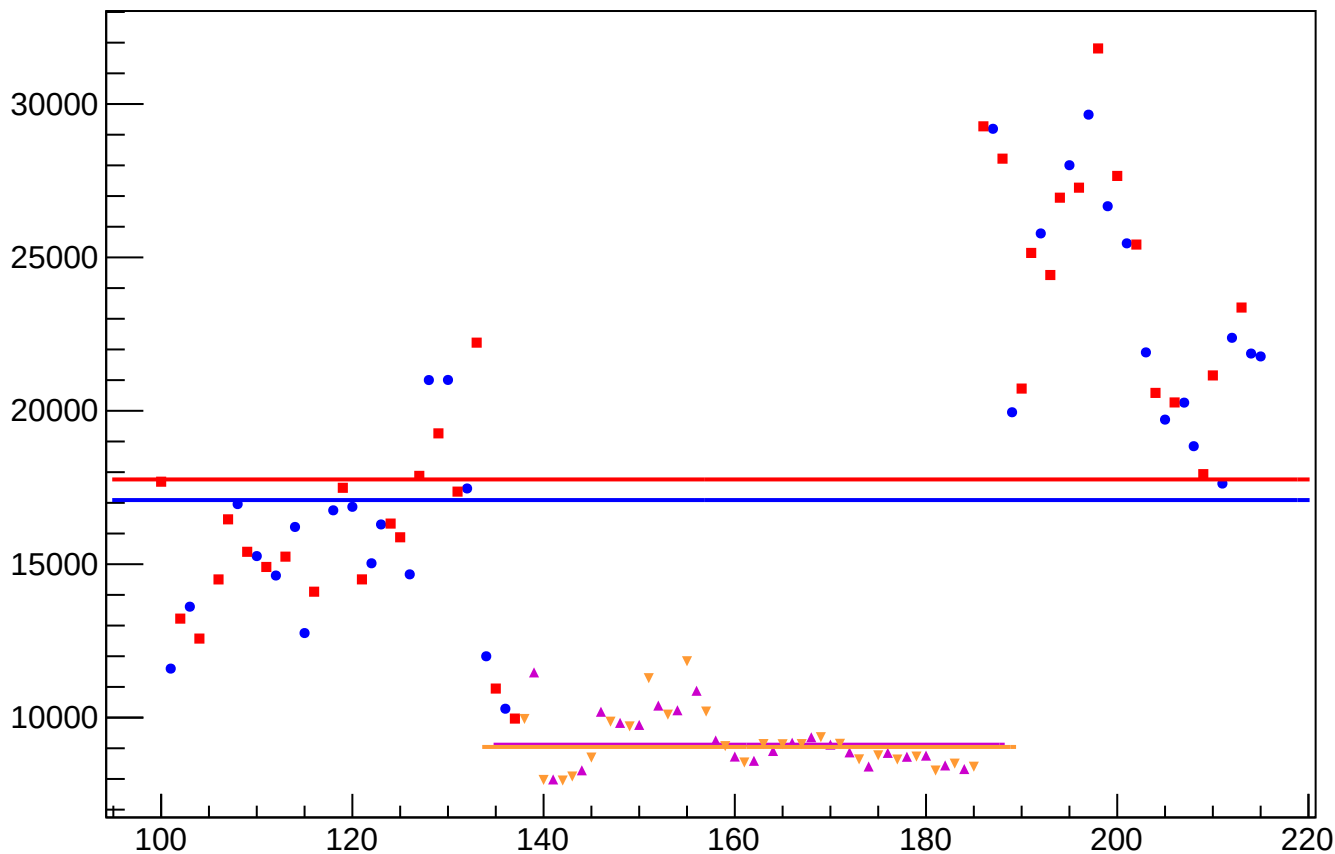
Right: -1.922 ± 3.101 $\chi^2/\text{NDF}: 87.9/65$

In: -3.261 ± 1.954 $\chi^2/\text{NDF}: 83.9/54$

Out: -5.496 ± 1.914 $\chi^2/\text{NDF}: 104.5/58$

All: -4.401 ± 1.367 $\chi^2/\text{NDF}: 189.1/113$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17090.508 $\pm$ 3.045 χ^2 /NDF: 2869999.2/31

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 17762.773 $\pm$ 3.161 χ^2 /NDF: 2836169.7/33

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

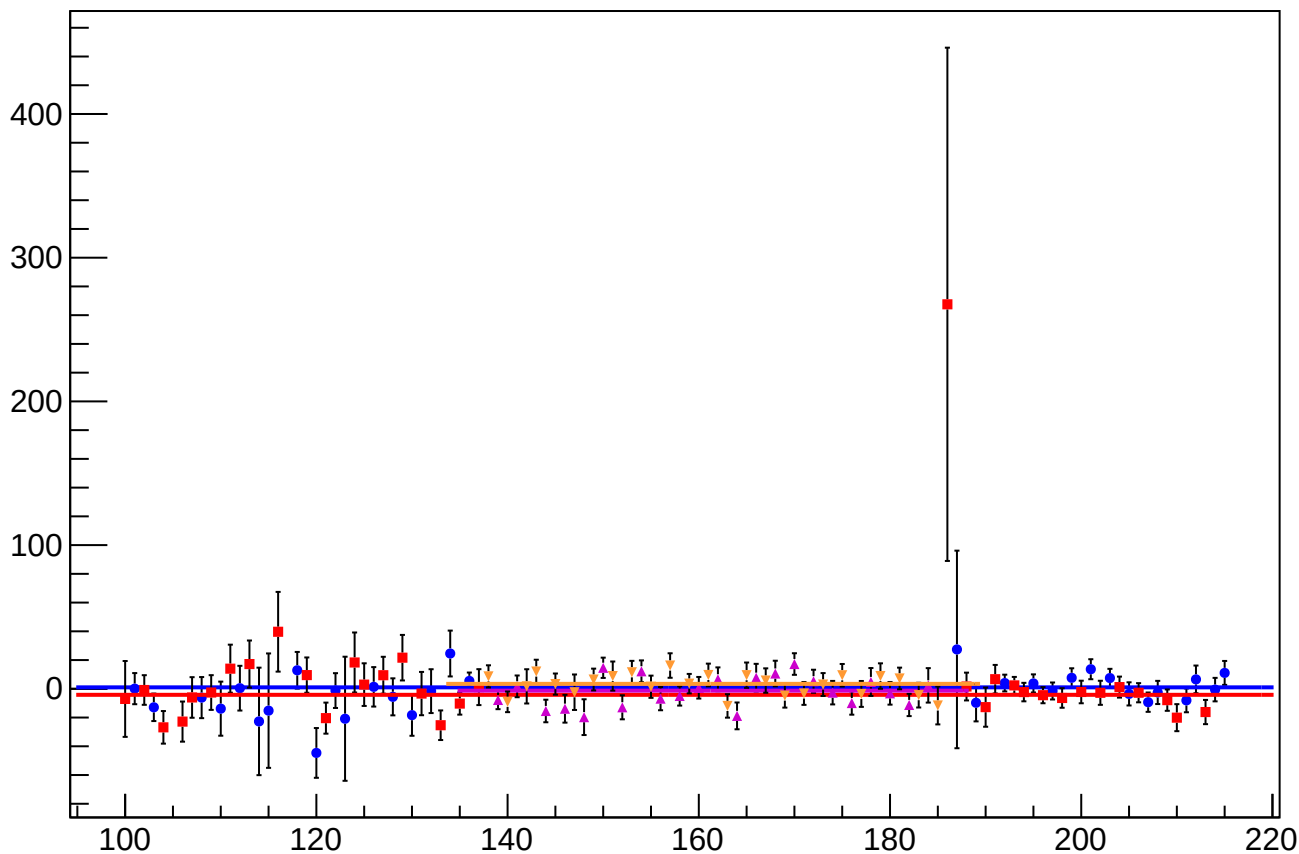
Right: 17414.142 $\pm$ 2.193 χ^2 /NDF: 5729630.7/65

In: 10757.586 $\pm$ 1.381 χ^2 /NDF: 8592929.9/54

Out: 10642.547 $\pm$ 1.354 χ^2 /NDF: 9379207.7/58

All: 10698.897 $\pm$ 0.967 χ^2 /NDF: 17975676.0

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.011 ± 1.648 χ^2/NDF : 29.2/31

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -4.188 ± 1.664 χ^2/NDF : 36.5/33

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

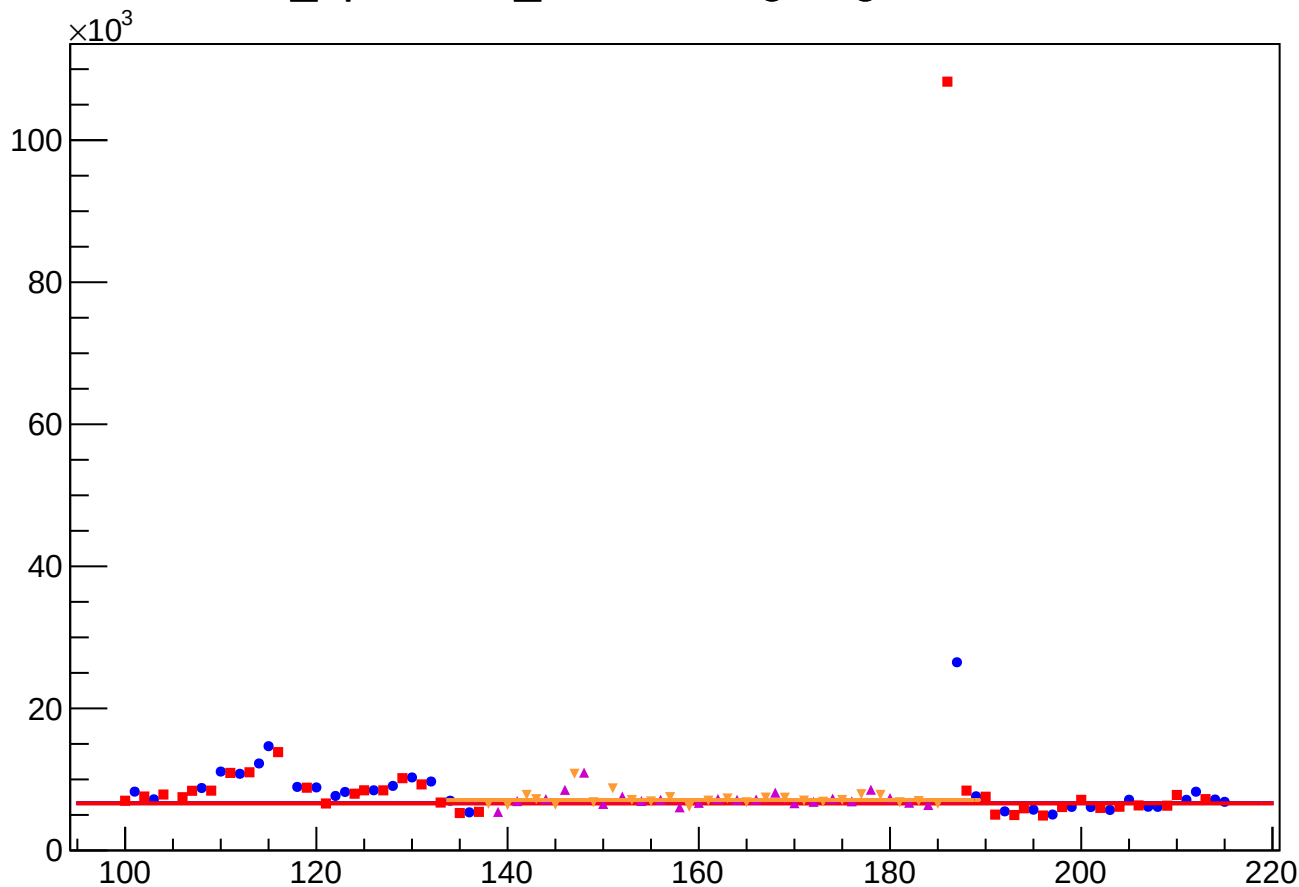
Right: -1.564 ± 1.171 χ^2/NDF : 70.7/65

In: -0.104 ± 1.184 χ^2/NDF : 66.7/54

Out: -0.380 ± 1.177 χ^2/NDF : 65.9/58

All: -0.243 ± 0.835 χ^2/NDF : 132.6/113

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6658.094 $\pm$ 1.166 χ^2/NDF : 1613782.2/31

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6631.117 $\pm$ 1.176 χ^2/NDF : 2154217.9/33

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

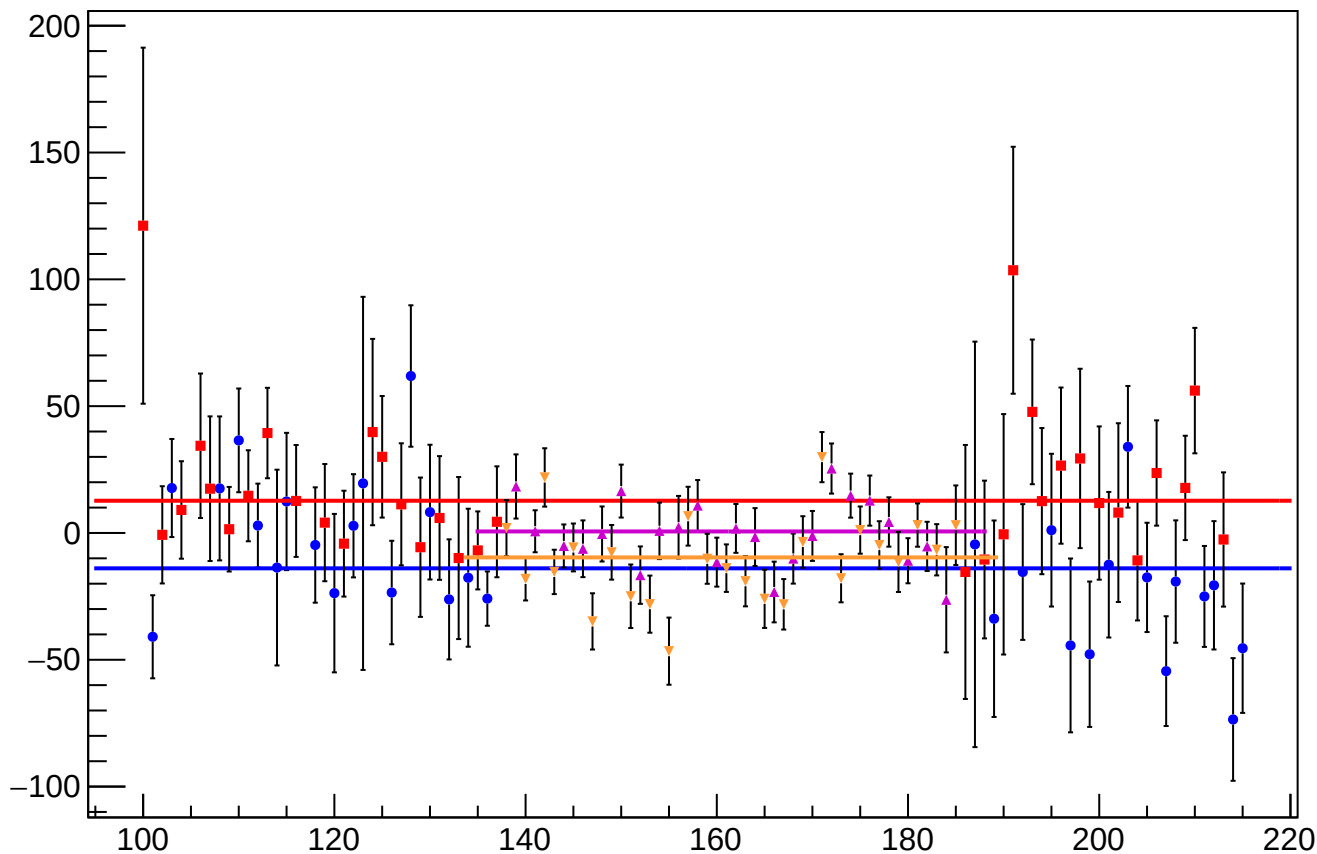
Right: 6644.729 $\pm$ 0.828 χ^2/NDF : 3768265.4/65

In: 6840.016 $\pm$ 0.837 χ^2/NDF : 2205111.2/54

Out: 6864.567 $\pm$ 0.832 χ^2/NDF : 2615659.3/58

All: 6852.360 $\pm$ 0.590 χ^2/NDF : 4821203.1/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -13.946 $\pm$ 4.085 χ^2/NDF : 44.0/31

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 12.708 $\pm$ 4.199 χ^2/NDF : 22.0/33

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

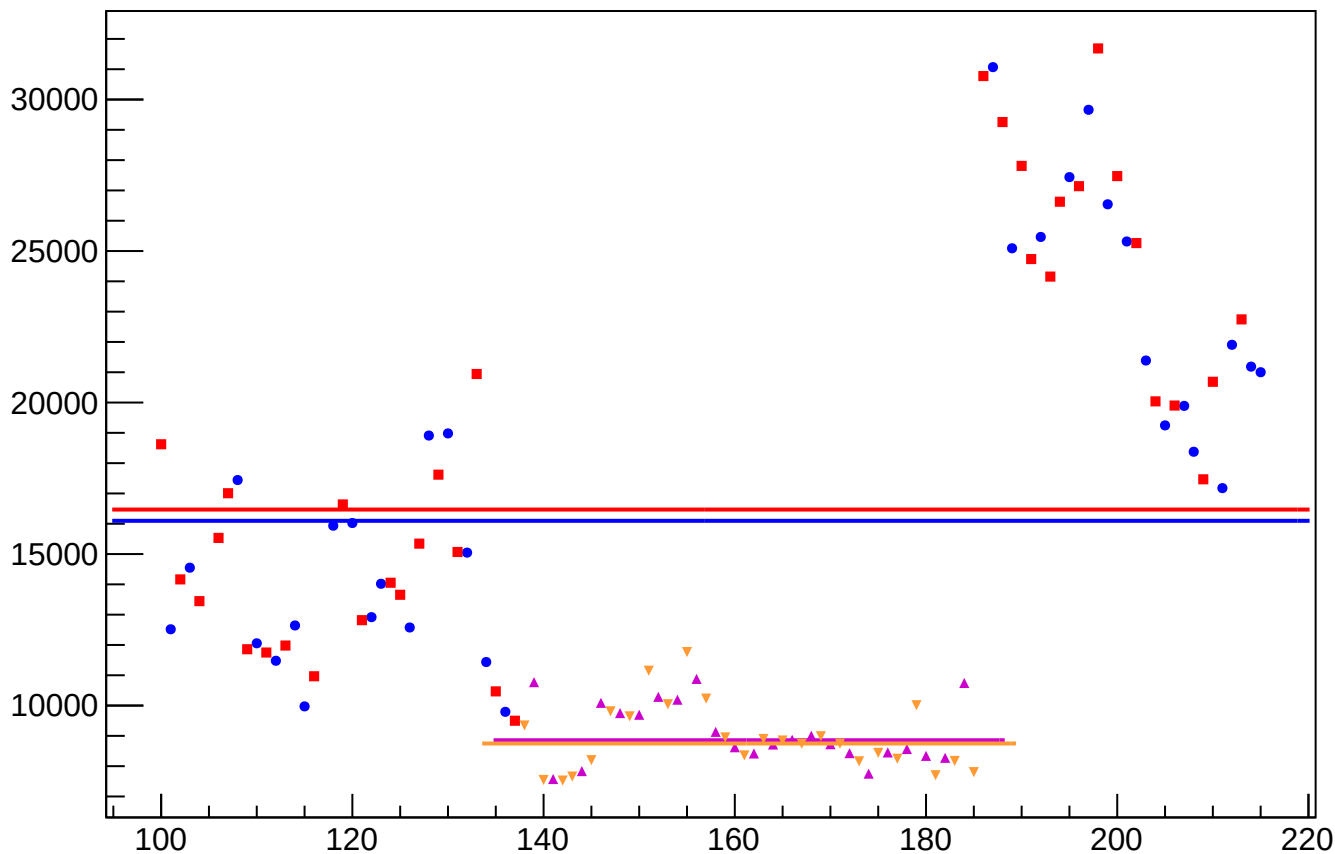
Right: -0.988 $\pm$ 2.928 χ^2/NDF : 86.7/65

In: -2.522 $\pm$ 1.892 χ^2/NDF : 83.6/54

Out: -5.315 $\pm$ 1.847 χ^2/NDF : 102.5/58

All: -3.952 $\pm$ 1.322 χ^2/NDF : 187.2/113

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16097.123 $\pm$ 2.888 χ^2 /NDF: 3360469.1/31

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 16468.758 $\pm$ 2.969 χ^2 /NDF: 3627809.8/33

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

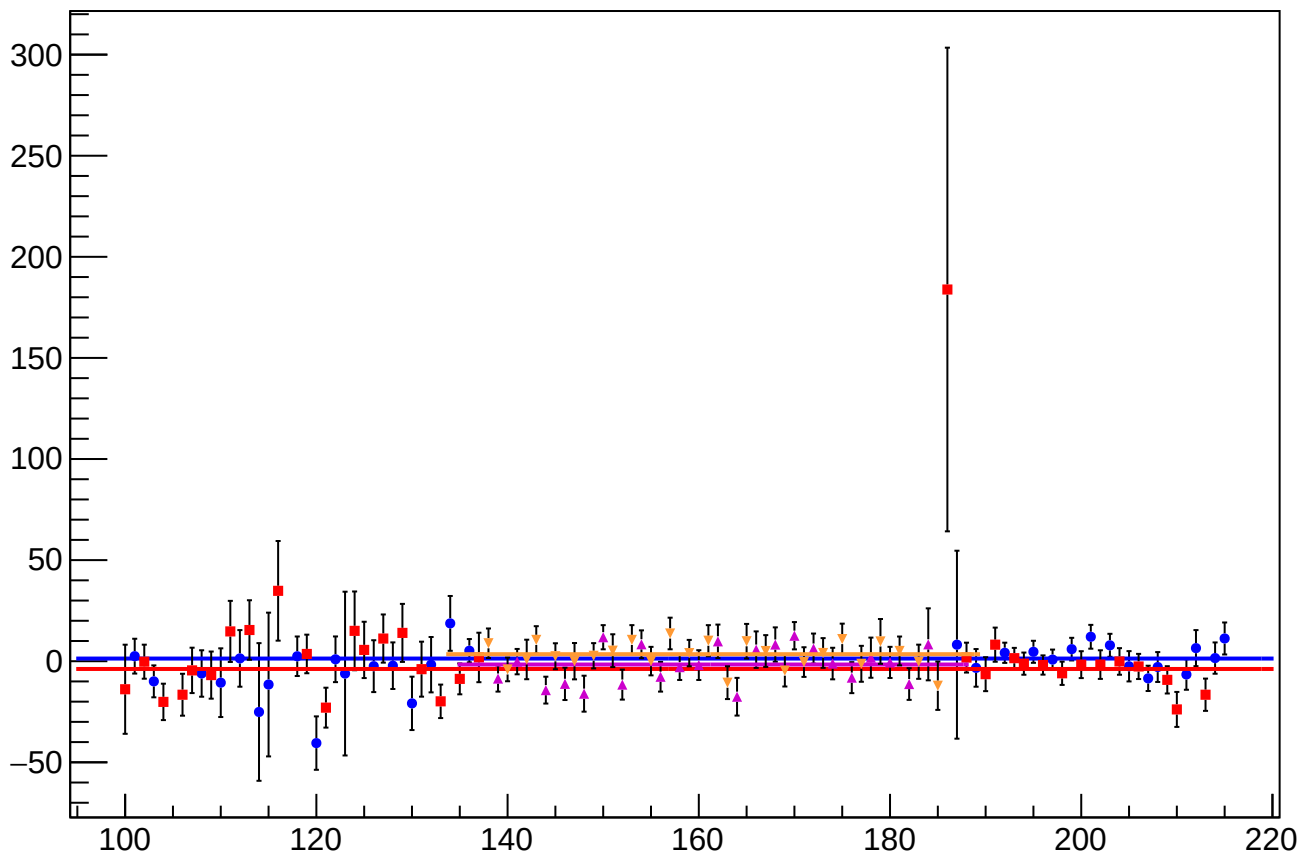
Right: 16277.792 $\pm$ 2.070 χ^2 /NDF: 6996327.5/65

In: 10409.506 $\pm$ 1.338 χ^2 /NDF: 8665191.8/54

Out: 10242.629 $\pm$ 1.306 χ^2 /NDF: 9542539.1/58

All: 10324.075 $\pm$ 0.935 χ^2 /NDF: 18215695.0

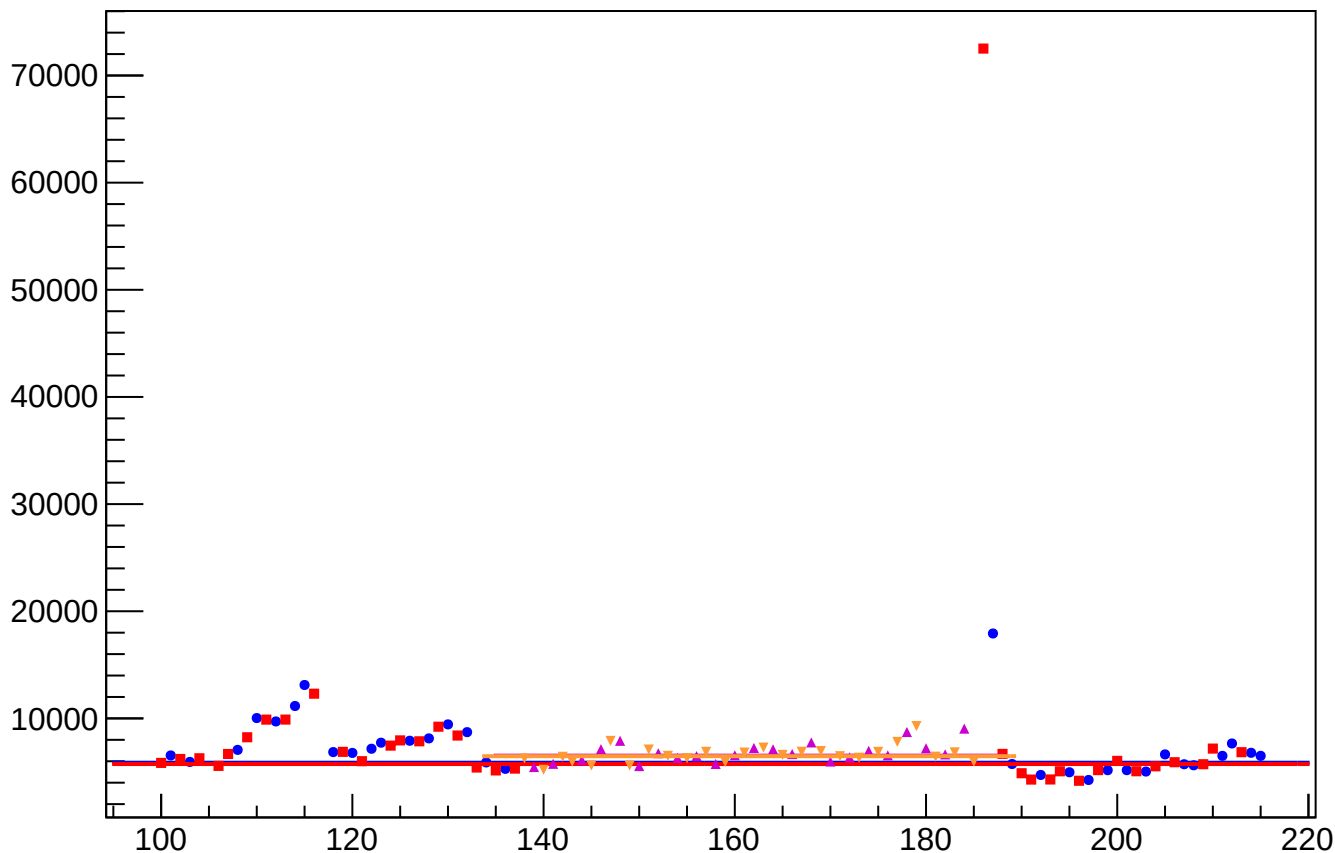
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.314 ± 1.452 $\chi^2/\text{NDF}: 31.3/31$
Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$
Right Out: -3.835 ± 1.437 $\chi^2/\text{NDF}: 40.1/33$
Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$
Right: -1.286 ± 1.021 $\chi^2/\text{NDF}: 77.7/65$
In: -0.039 ± 1.068 $\chi^2/\text{NDF}: 66.9/54$
Out: -0.395 ± 1.046 $\chi^2/\text{NDF}: 68.0/58$
All: -0.221 ± 0.747 $\chi^2/\text{NDF}: 135.0/113$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5863.292 $\pm$ 1.026 χ^2 /NDF: 1648108.5/31

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5739.764 $\pm$ 1.016 χ^2 /NDF: 2223735.9/33

Left In: 6521.975 $\pm$ 1.116 χ^2 /NDF: 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2 /NDF: 971356.4/47

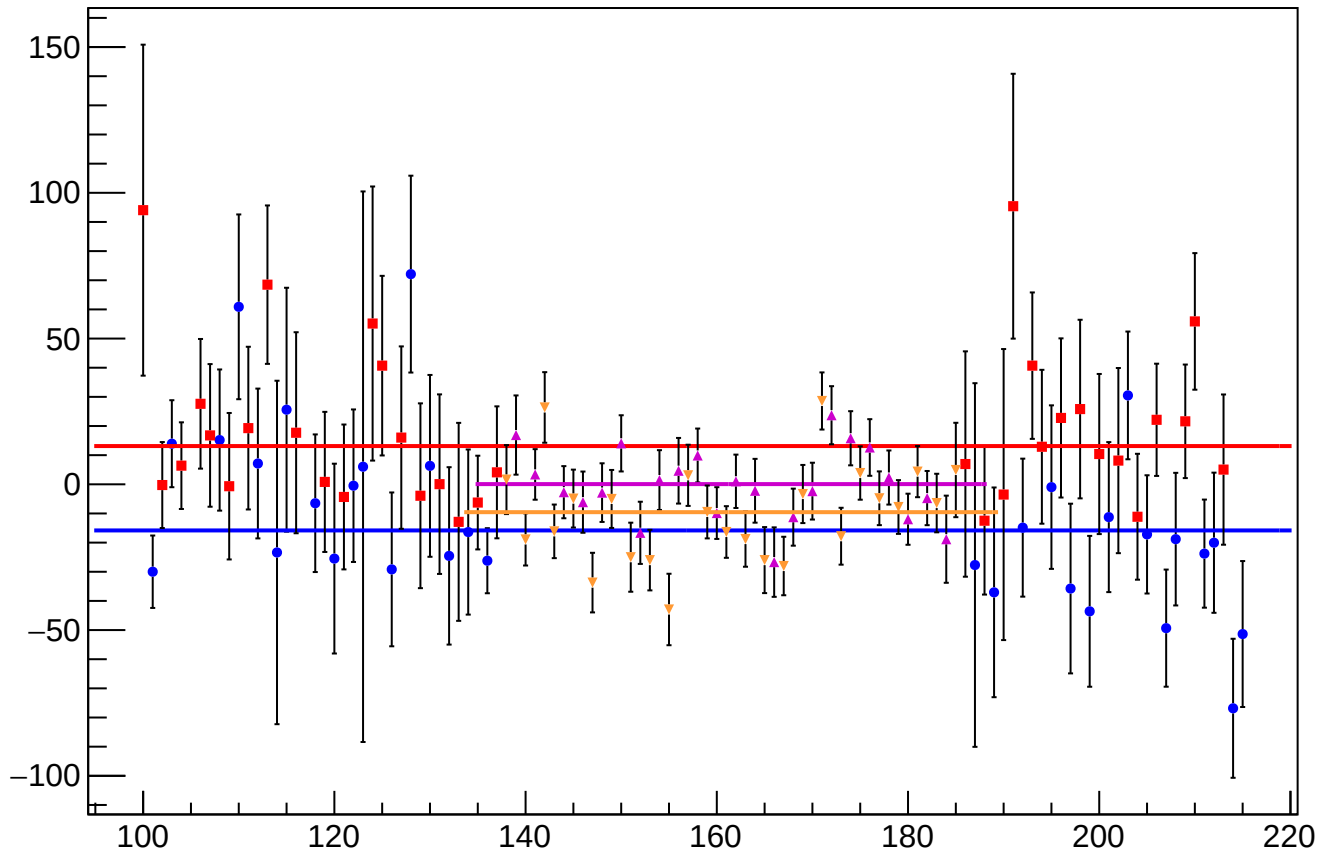
Right: 5800.923 $\pm$ 0.722 χ^2 /NDF: 3879157.4/65

In: 6165.218 $\pm$ 0.755 χ^2 /NDF: 2316912.9/54

Out: 6084.408 $\pm$ 0.739 χ^2 /NDF: 2958291.5/58

All: 6123.952 $\pm$ 0.528 χ^2 /NDF: 5281048.4/111

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -15.823 ± 4.108 χ^2/NDF : 42.1/31

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 13.122 ± 4.285 χ^2/NDF : 24.1/33

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

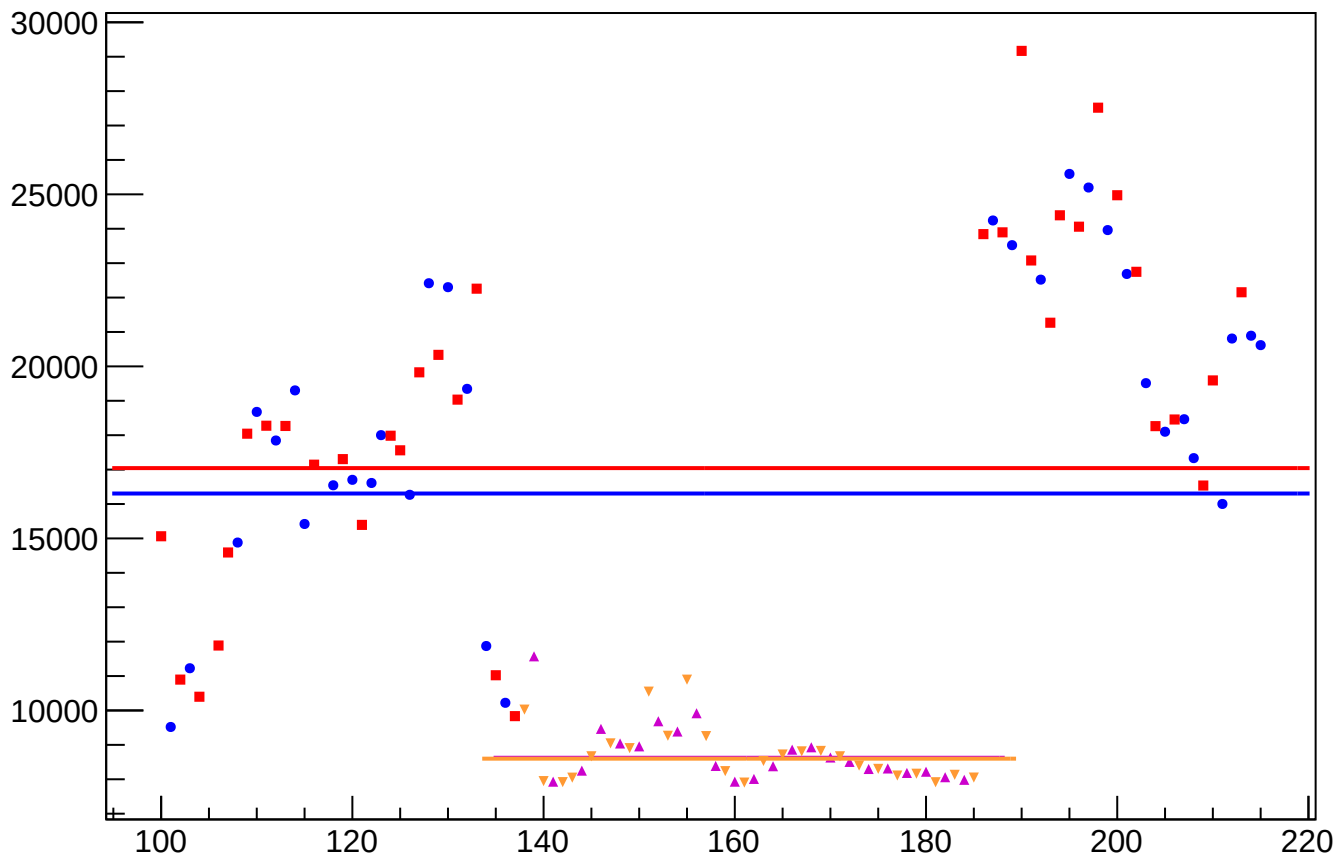
Right: -1.958 ± 2.965 χ^2/NDF : 90.0/65

In: -3.153 ± 1.851 χ^2/NDF : 83.8/54

Out: -5.458 ± 1.821 χ^2/NDF : 106.6/58

All: -4.324 ± 1.298 χ^2/NDF : 191.2/113

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16305.022 $\pm$ 2.905 χ^2 /NDF: 2908504.6/31

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 17043.474 $\pm$ 3.030 χ^2 /NDF: 2766167.5/33

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

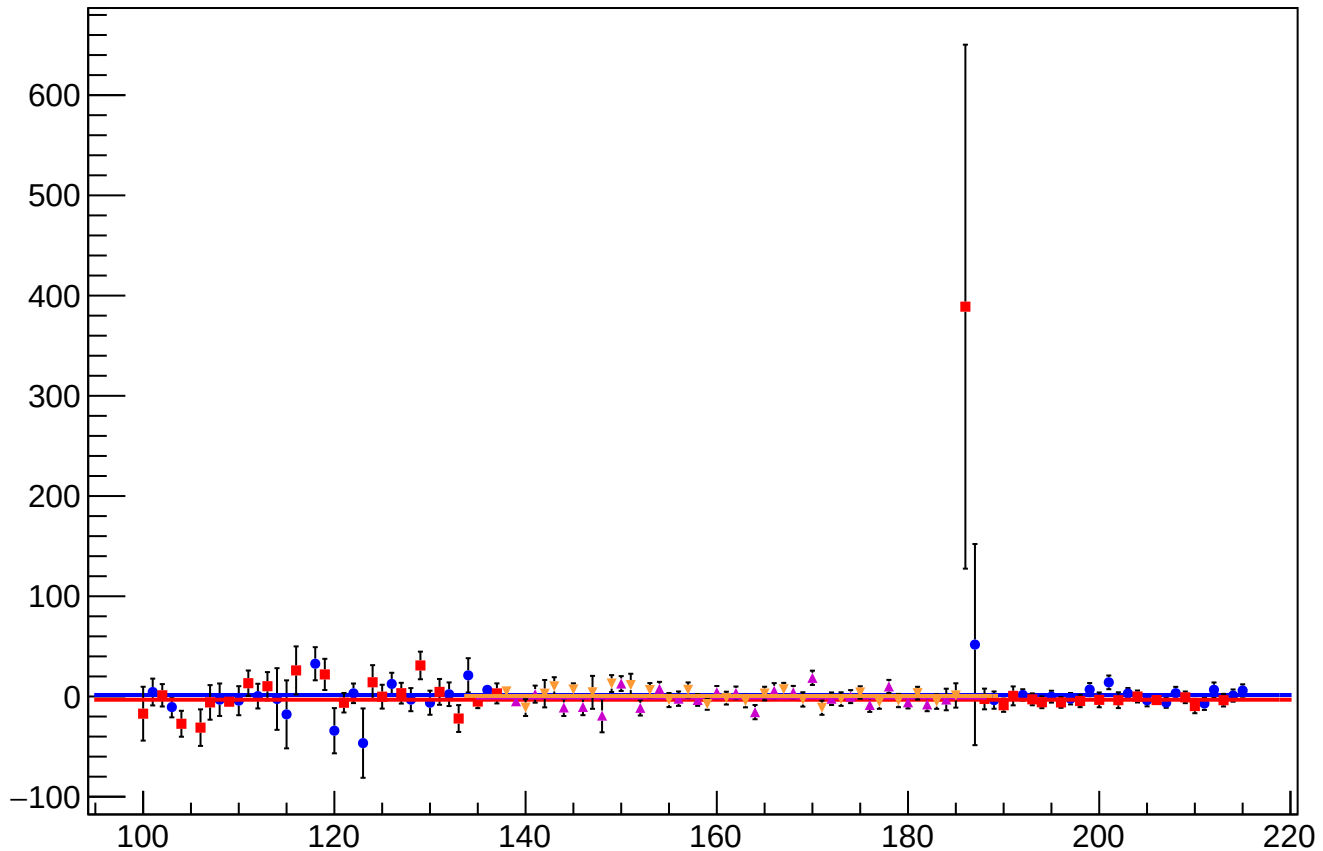
Right: 16658.756 $\pm$ 2.097 χ^2 /NDF: 5705623.2/65

In: 10183.358 $\pm$ 1.309 χ^2 /NDF:8716329.1/54

Out: 10124.376 $\pm$ 1.288 χ^2 /NDF:9380739.6/58

All: 10153.392 $\pm$ 0.918 χ^2 /NDF: 18098100.9

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.507 $\pm$ 1.417 χ^2/NDF : 25.2/31

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -3.210 $\pm$ 1.407 χ^2/NDF : 28.5/33

Left In: -1.050 $\pm$ 1.396 χ^2/NDF : 32.5/22

Left: -0.273 $\pm$ 0.995 χ^2/NDF : 52.6/47

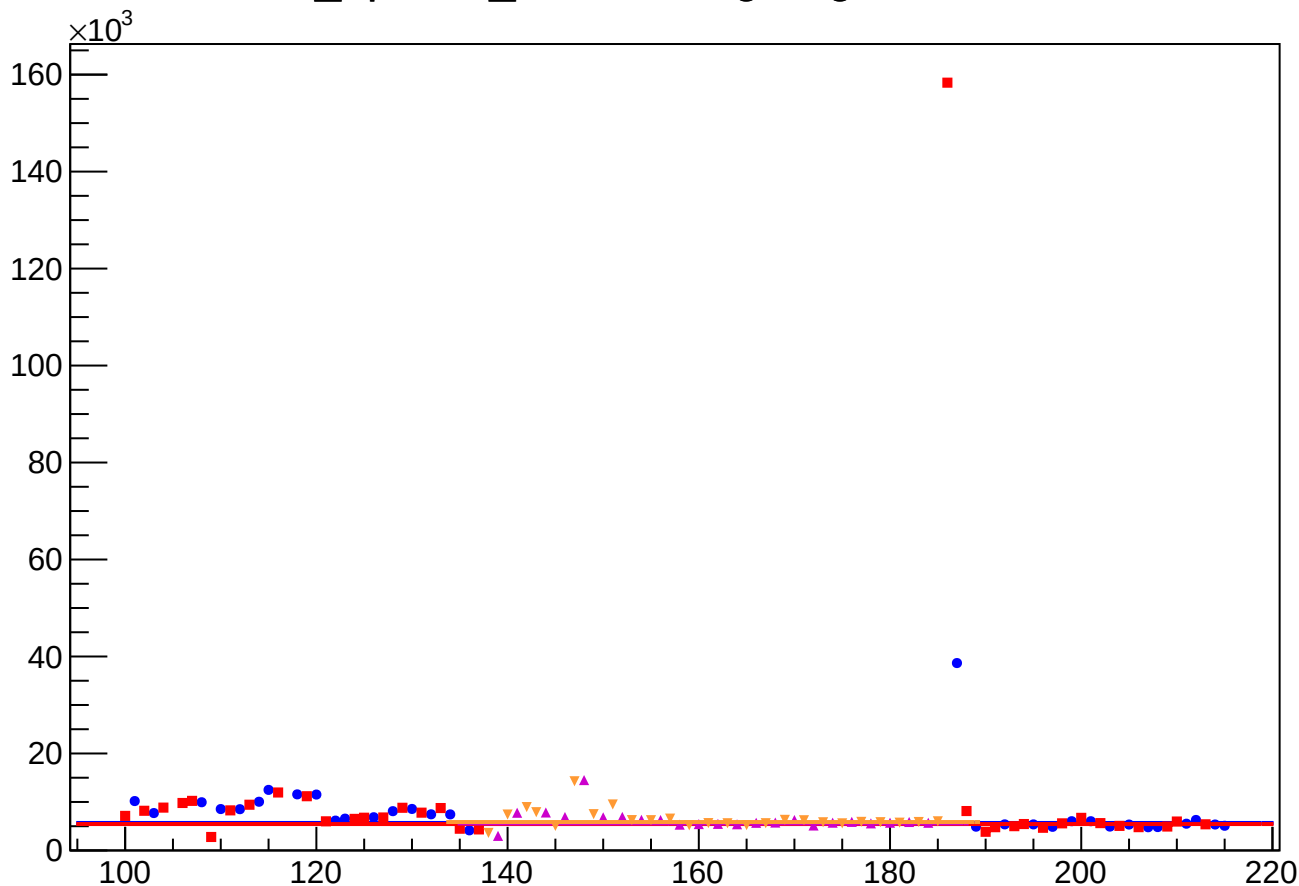
Right: -0.868 $\pm$ 0.998 χ^2/NDF : 59.3/65

In: 0.209 $\pm$ 0.994 χ^2/NDF : 59.4/54

Out: -1.355 $\pm$ 0.999 χ^2/NDF : 51.5/58

All: -0.569 $\pm$ 0.705 χ^2/NDF : 112.1/113

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5669.374 $\pm$ 1.002 χ^2/NDF : 2135486.6/31

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5445.005 $\pm$ 0.995 χ^2/NDF : 3462052.7/33

Left In: 5571.330 $\pm$ 0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698 $\pm$ 0.703 χ^2/NDF : 3895130.2/47

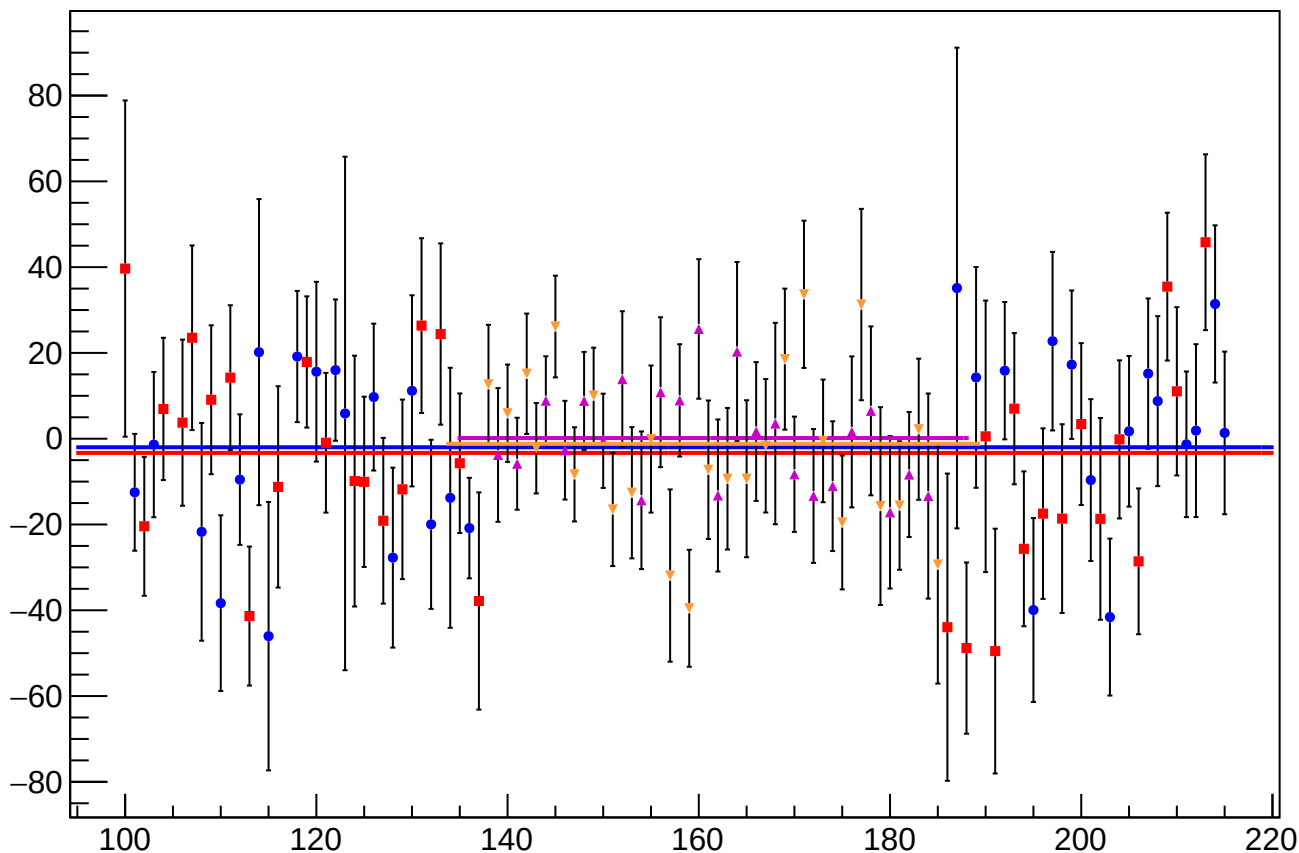
Right: 5556.426 $\pm$ 0.706 χ^2/NDF : 5622785.2/65

In: 5619.607 $\pm$ 0.703 χ^2/NDF : 4303135.7/54

Out: 5651.286 $\pm$ 0.706 χ^2/NDF : 5238677.5/58

All: 5635.376 $\pm$ 0.498 χ^2/NDF : 9542823.8/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.994 ± 3.367 χ^2/NDF : 34.1/31

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -3.314 ± 3.374 χ^2/NDF : 46.4/33

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

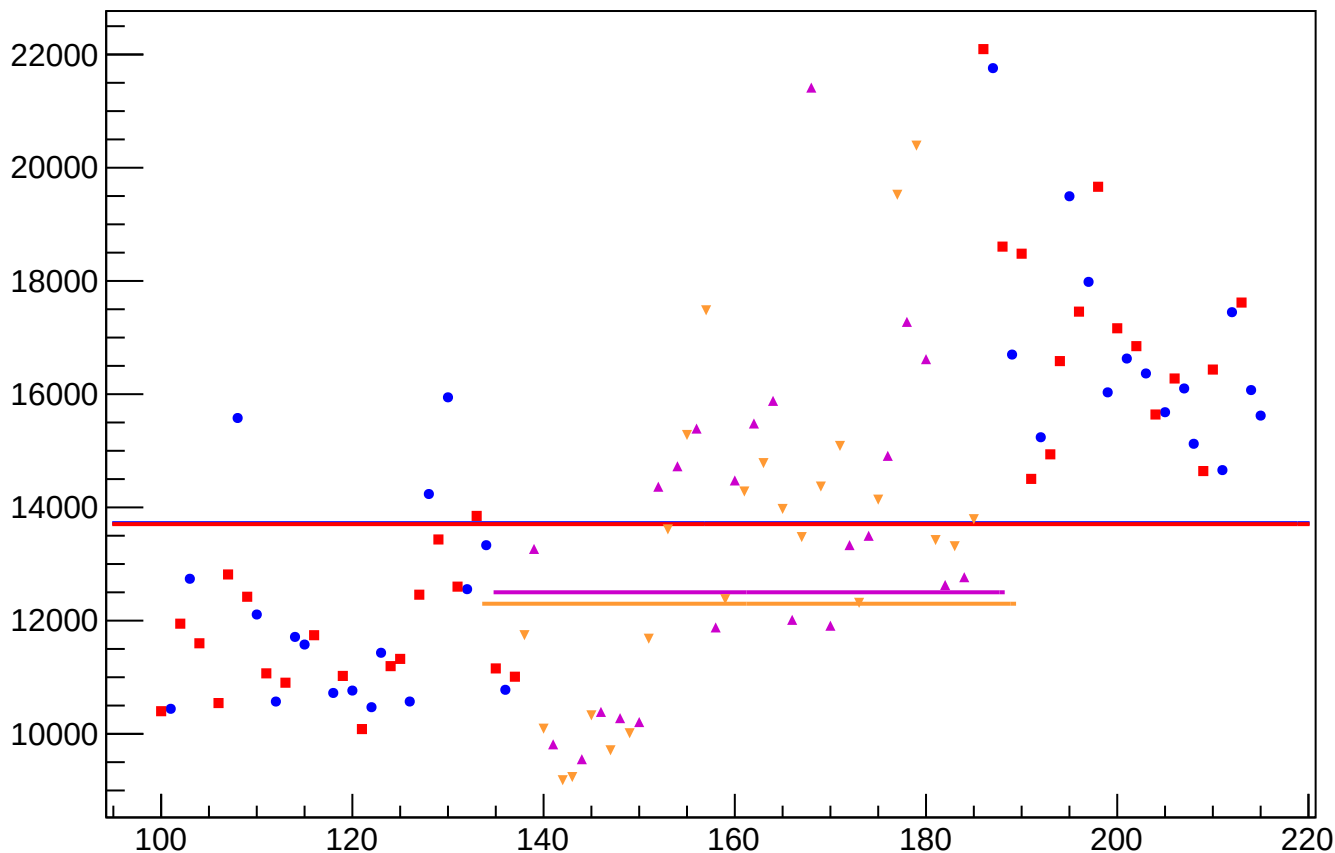
Right: -2.652 ± 2.383 χ^2/NDF : 80.6/65

In: -0.815 ± 2.264 χ^2/NDF : 45.8/54

Out: -2.102 ± 2.216 χ^2/NDF : 80.3/58

All: -1.472 ± 1.584 χ^2/NDF : 126.3/113

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13721.387+/-2.381 χ^2/NDF : 1306426.6/31

Left Out: 12298.676+/-2.078 χ^2/NDF : 1506026.8/24

Right Out: 13704.527+/-2.386 χ^2/NDF : 1394644.3/33

Left In: 12500.795+/-2.162 χ^2/NDF : 1357889.1/22

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

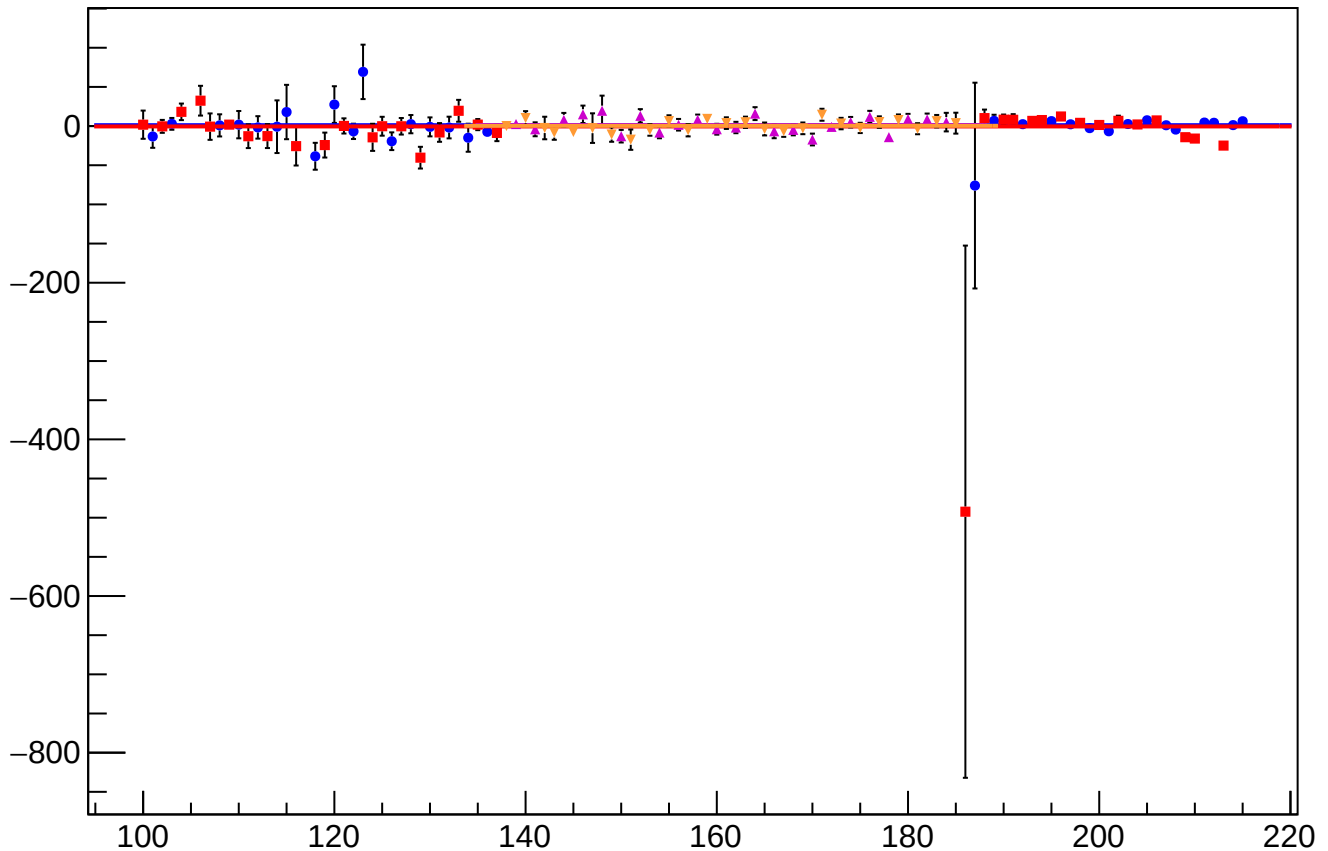
Right: 13712.975+/-1.685 χ^2/NDF : 2701096.0/65

In: 13052.485+/-1.601 χ^2/NDF : 2808332.1/54

Out: 12905.095+/-1.567 χ^2/NDF : 3098089.7/58

All: 12977.223+/-1.120 χ^2/NDF : 5910751.0/110

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.143 ± 1.160 χ^2/NDF : 30.5/31

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: -0.468 ± 1.199 χ^2/NDF : 90.8/33

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

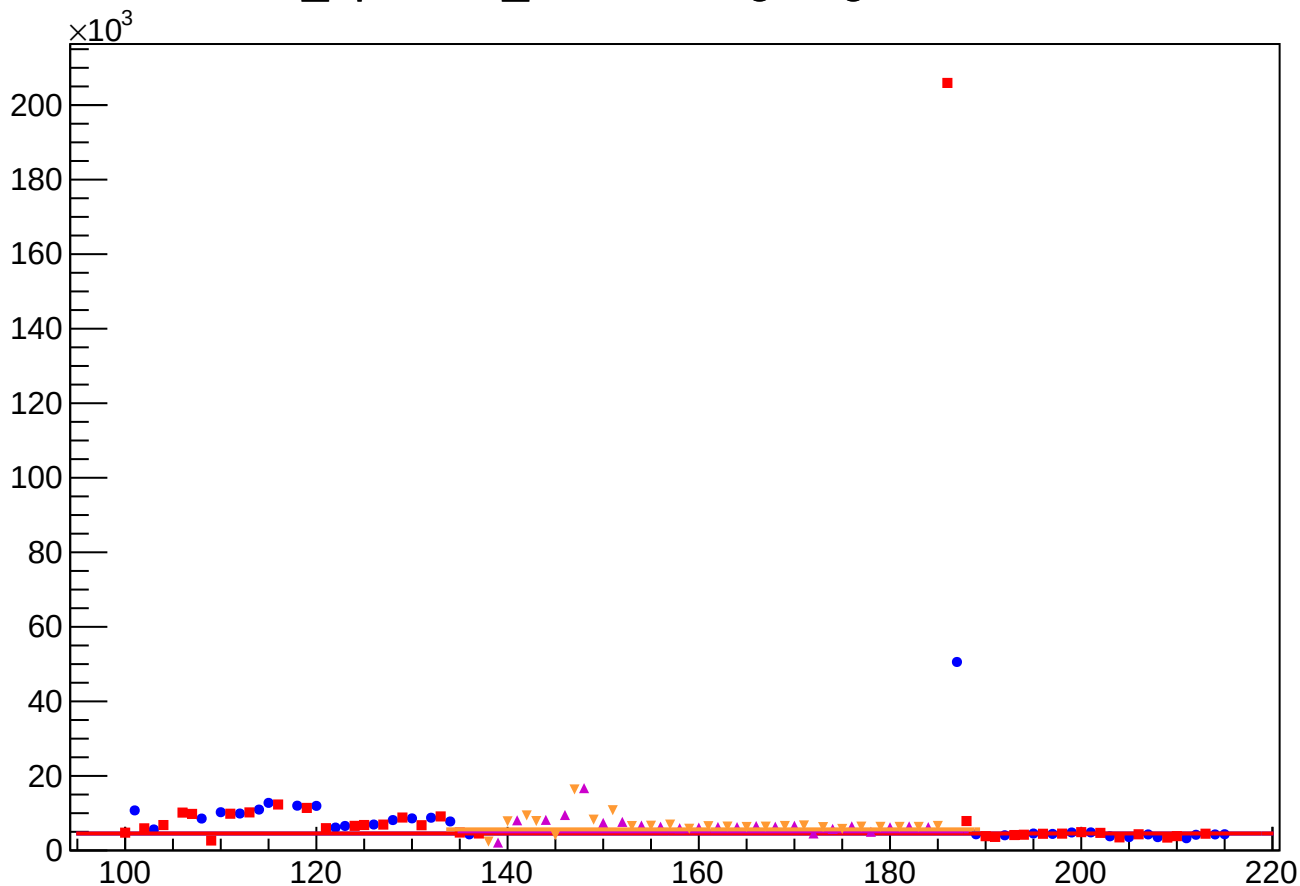
Right: 0.363 ± 0.834 χ^2/NDF : 122.2/65

In: 1.152 ± 0.886 χ^2/NDF : 64.0/54

Out: -0.130 ± 0.919 χ^2/NDF : 110.1/58

All: 0.535 ± 0.638 χ^2/NDF : 175.2/113

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4537.205+/-0.820 χ^2/NDF : 3444396.9/31

Left Out: 5659.441+/-1.014 χ^2/NDF : 4128583.6/24

Right Out: 4556.997+/-0.847 χ^2/NDF : 3959194.1/33

Left In: 5137.772+/-0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078+/-0.701 χ^2/NDF : 9762498.7/47

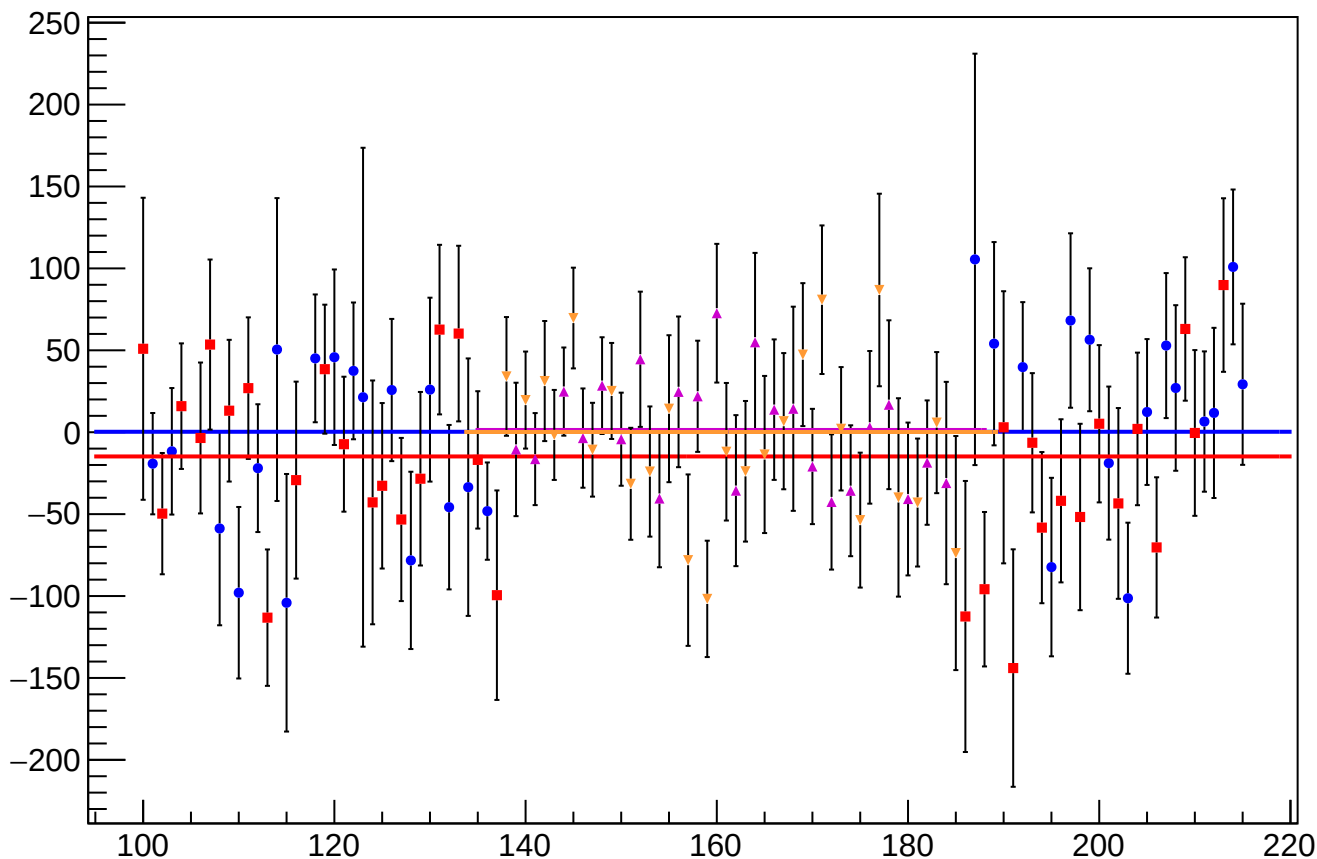
Right: 4546.781+/-0.589 χ^2/NDF : 7403872.6/65

In: 4787.774+/-0.626 χ^2/NDF : 9163538.1/54

Out: 5010.605+/-0.650 χ^2/NDF : 8784062.1/58

All: 4895.038+/-0.451 χ^2/NDF : 18008523.1/111

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 0.274+/-8.423 χ^2/NDF : 36.4/31

Left Out: 0.143+/-7.683 χ^2/NDF : 31.3/24

Right Out: -14.789+/-8.431 χ^2/NDF : 38.2/33

Left In: 1.374+/-7.990 χ^2/NDF : 13.3/22

Left: 0.734+/-5.538 χ^2/NDF : 44.6/47

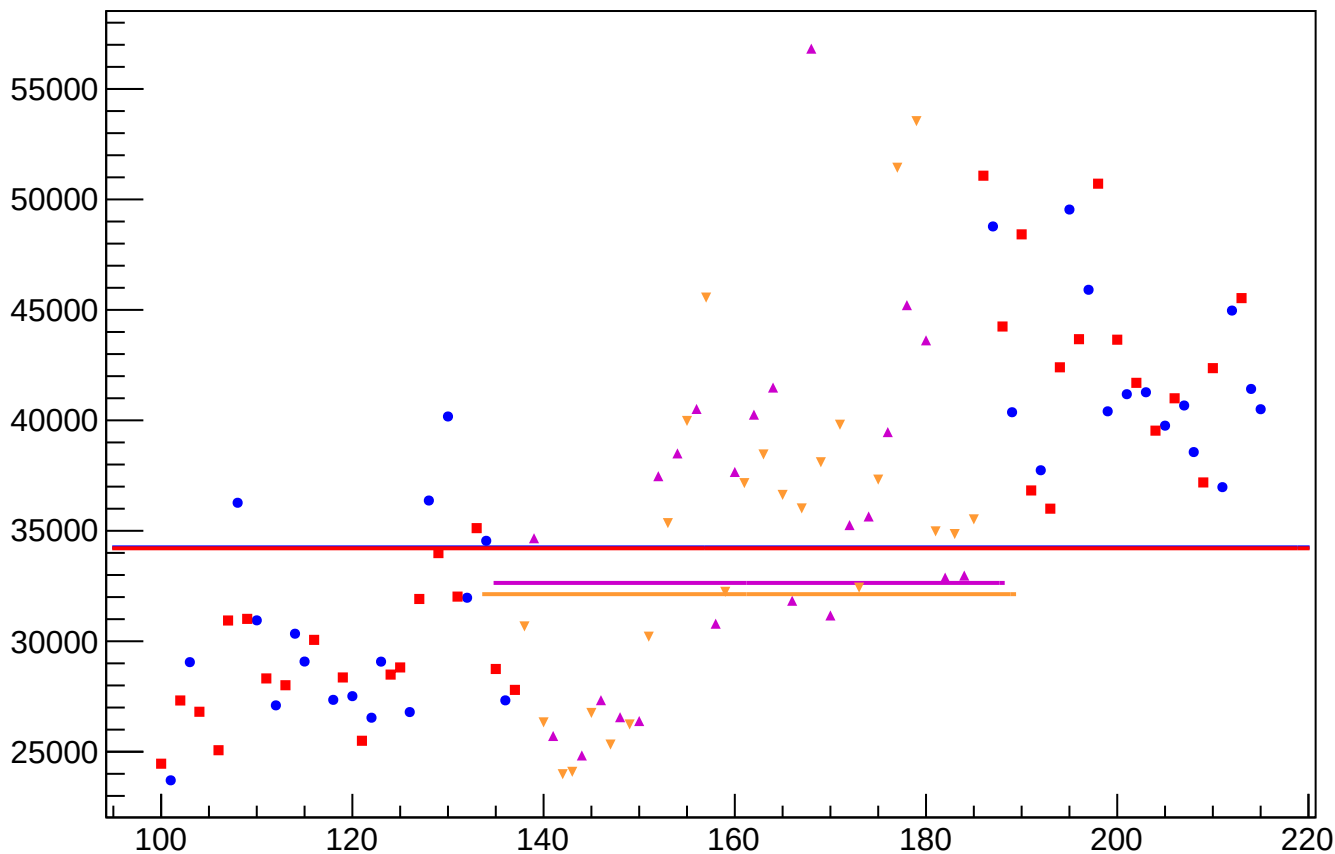
Right: -7.250+/-5.959 χ^2/NDF : 76.1/65

In: 0.853+/-5.797 χ^2/NDF : 49.7/54

Out: -6.631+/-5.679 χ^2/NDF : 71.1/58

All: -2.966+/-4.057 χ^2/NDF : 121.7/113

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34250.133 ± 5.956

χ^2/NDF : 1424823.5/31

Left: 32376.774 ± 3.916 χ^2/NDF : 2946456.2/47

Right: 34229.095 ± 4.214 χ^2/NDF : 2892009.6/65

Left Out: 32132.314 ± 5.433

χ^2/NDF : 1540079.4/24

In: 33403.223 ± 4.099 χ^2/NDF : 2865395.9/54

Right Out: 34208.018 ± 5.962

χ^2/NDF : 1467161.1/33

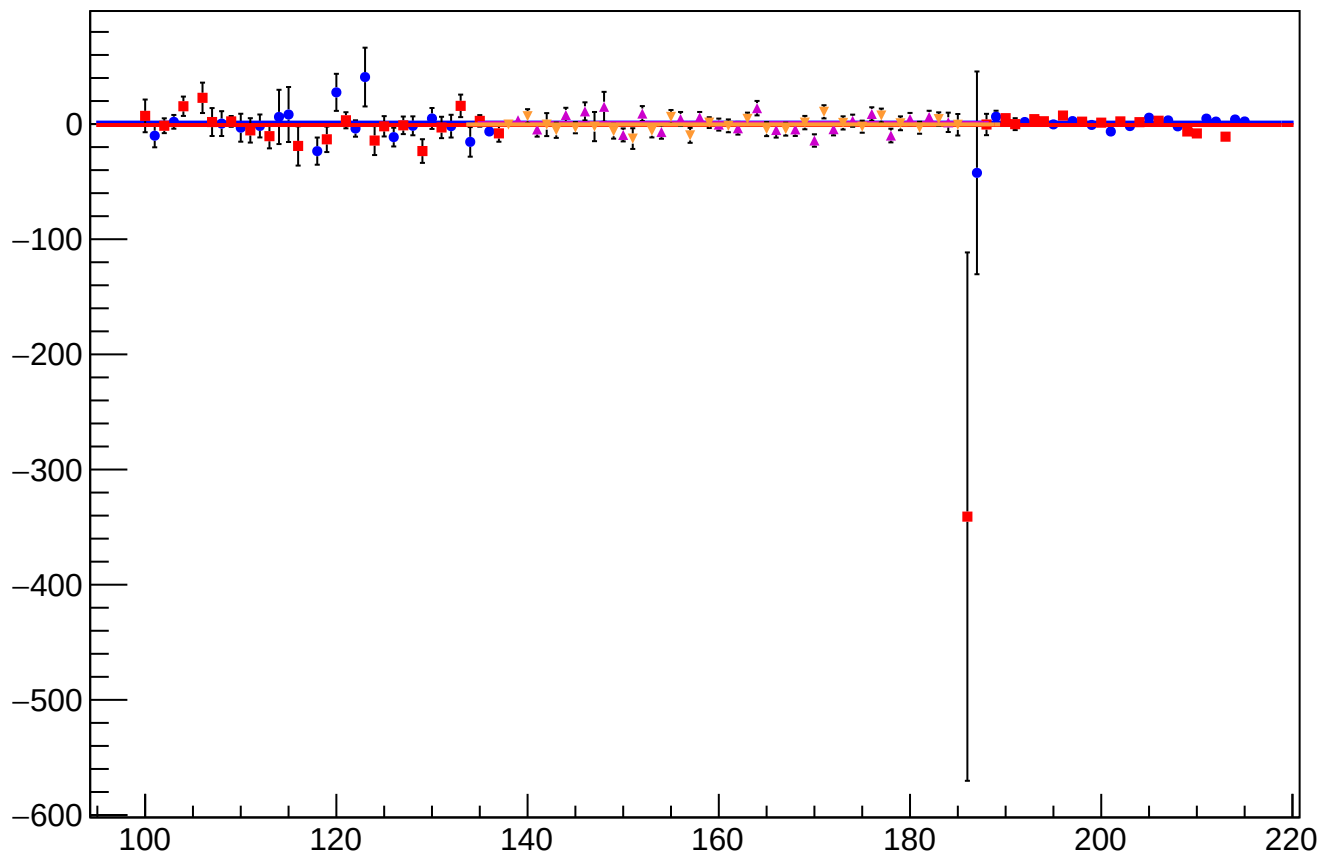
Out: 33074.001 ± 4.016 χ^2/NDF : 3073463.6/58

Left In: 32641.162 ± 5.650

χ^2/NDF : 1402162.4/22

All: 33235.226 ± 2.869 χ^2/NDF : 5942151.1/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.267 ± 0.674 $\chi^2/\text{NDF}: 40.2/31$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -0.834 ± 0.745 $\chi^2/\text{NDF}: 73.4/33$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

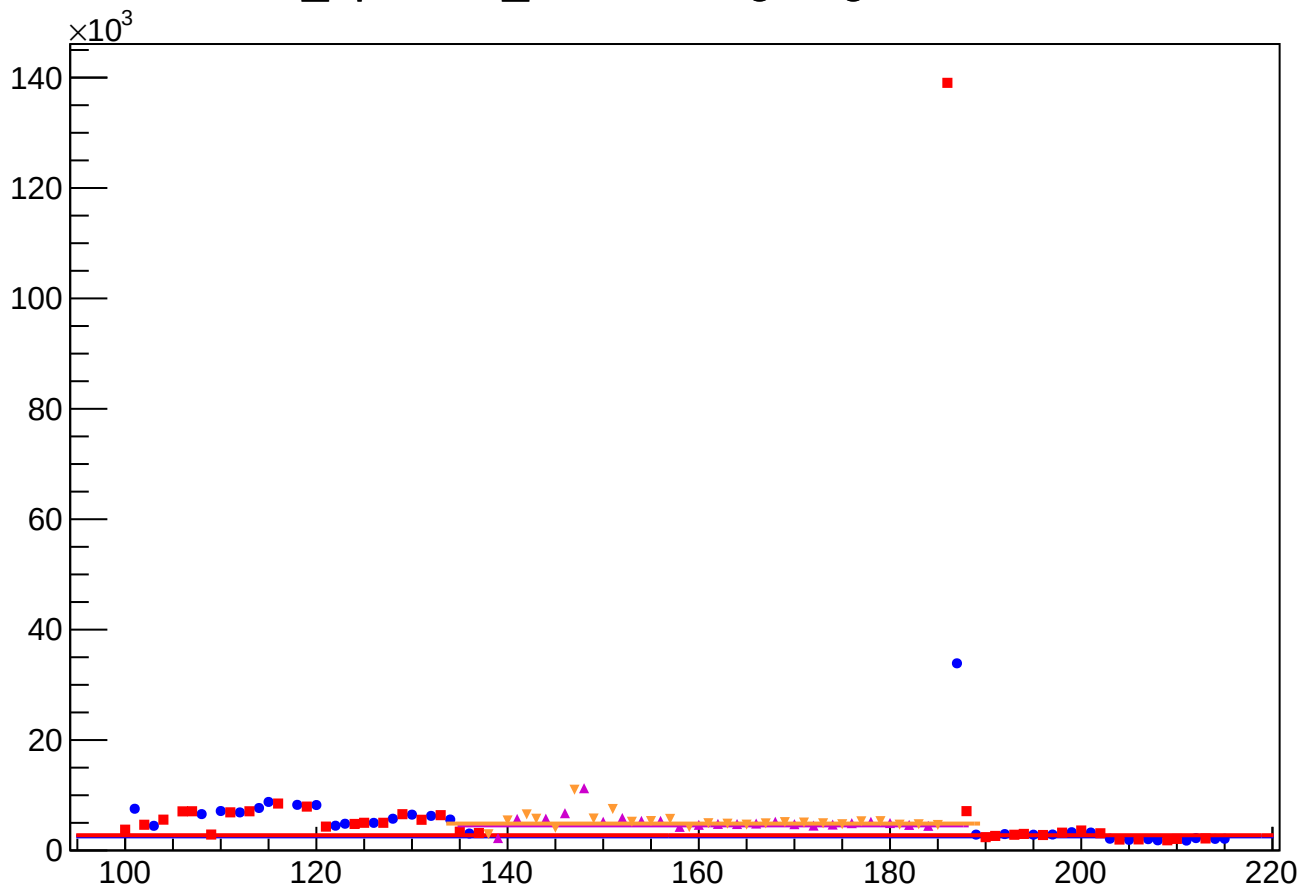
Right: 0.321 ± 0.500 $\chi^2/\text{NDF}: 118.0/65$

In: 1.174 ± 0.581 $\chi^2/\text{NDF}: 76.5/54$

Out: -0.684 ± 0.629 $\chi^2/\text{NDF}: 91.2/58$

All: 0.319 ± 0.427 $\chi^2/\text{NDF}: 172.4/113$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2548.121+/-0.477 χ^2/NDF : 5504705.8/31

Left Out: 4868.567+/-0.829 χ^2/NDF : 1511151.0/24

Right Out: 2759.747+/-0.527 χ^2/NDF : 5830305.5/33

Left In: 4544.337+/-0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320+/-0.578 χ^2/NDF : 4223993.0/47

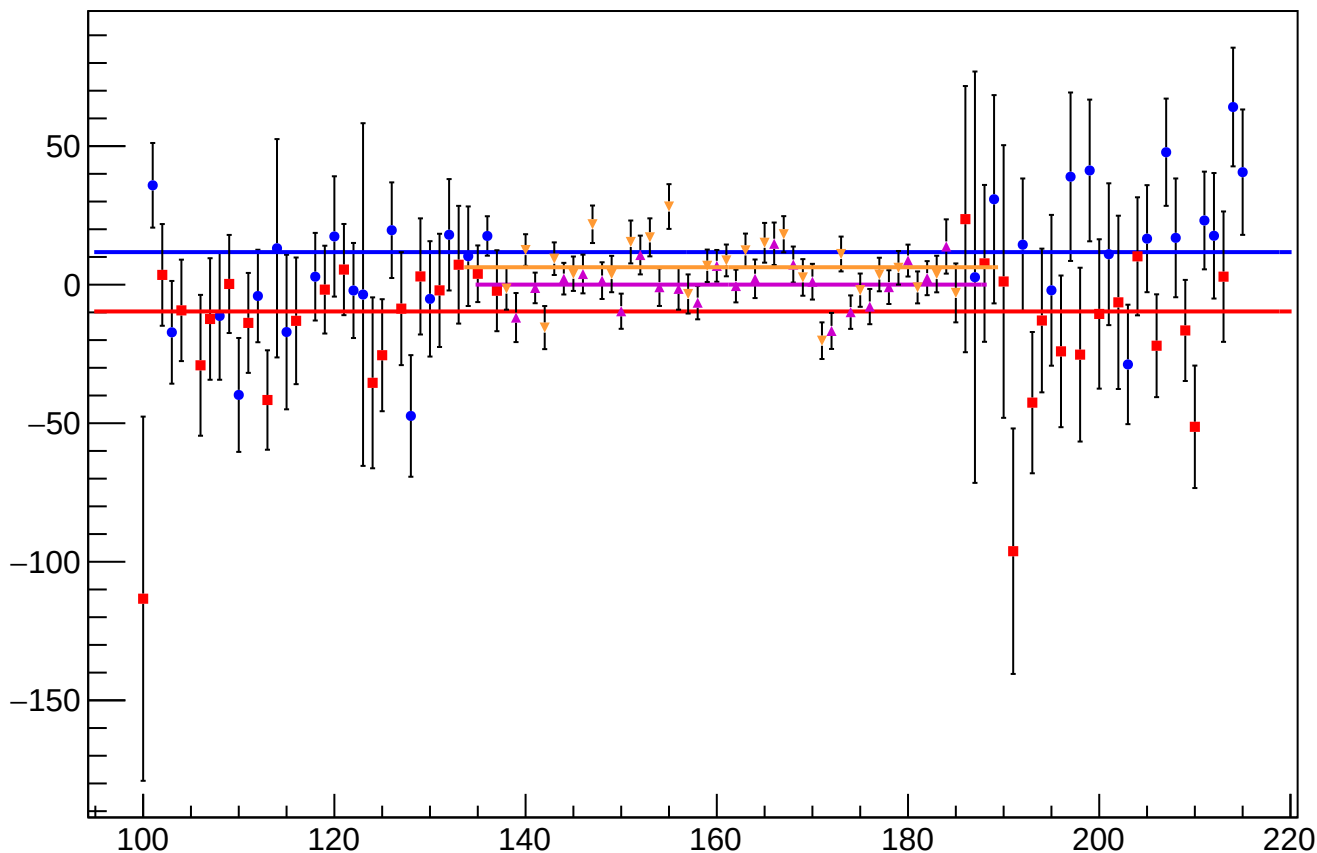
Right: 2643.426+/-0.353 χ^2/NDF : 11423736.2/65

In: 3064.007+/-0.411 χ^2/NDF : 12669270.4/54

Out: 3366.769+/-0.445 χ^2/NDF : 11955307.0/58

All: 3203.394+/-0.302 χ^2/NDF : 24874920.0/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 11.751 ± 3.392 $\chi^2/\text{NDF}: 42.1/31$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -9.664 ± 3.577 $\chi^2/\text{NDF}: 25.0/33$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

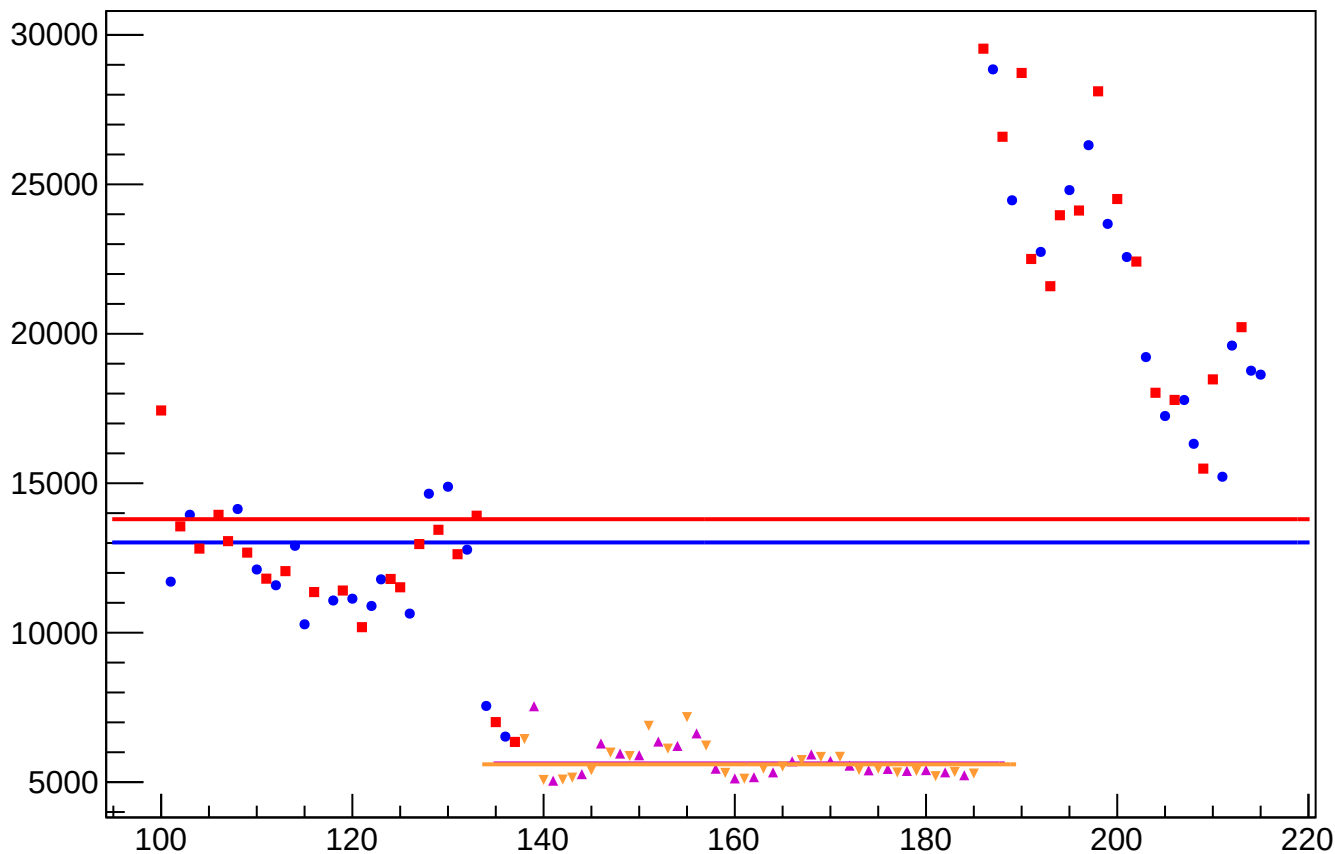
Right: 1.611 ± 2.461 $\chi^2/\text{NDF}: 85.9/65$

In: 1.631 ± 1.257 $\chi^2/\text{NDF}: 82.3/54$

Out: 4.407 ± 1.230 $\chi^2/\text{NDF}: 99.0/58$

All: 3.049 ± 0.879 $\chi^2/\text{NDF}: 183.9/113$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13019.624 $\pm$ 2.398 χ^2/NDF : 4946013.6/31

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF : 283998.1/24

Right Out: 13796.946 $\pm$ 2.529 χ^2/NDF : 4653071.5/33

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

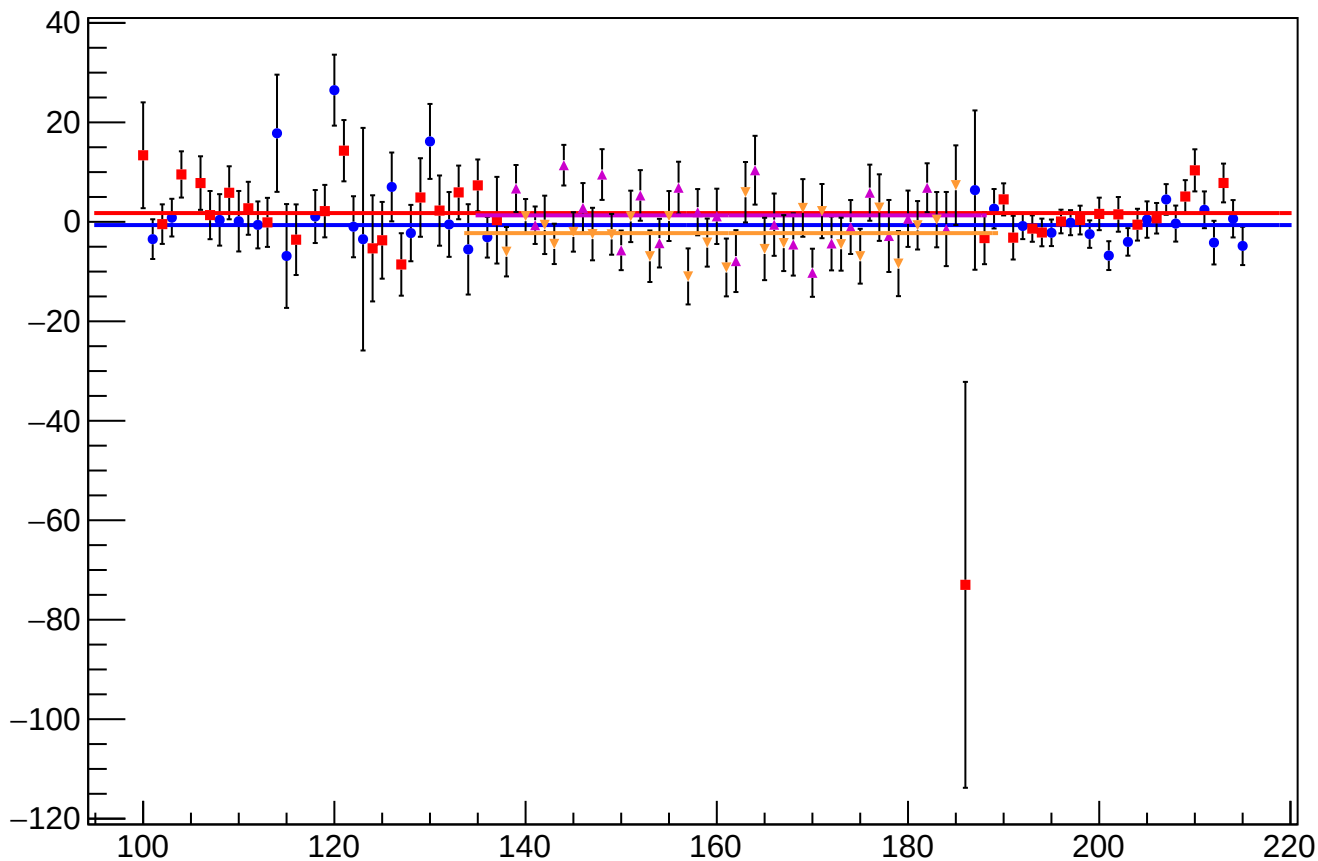
Right: 13387.669 $\pm$ 1.740 χ^2/NDF : 9648827.1/65

In: 6642.309 $\pm$ 0.889 χ^2/NDF : 13422061.8/54

Out: 6566.644 $\pm$ 0.870 χ^2/NDF : 14207609.8/58

All: 6603.670 $\pm$ 0.622 χ^2/NDF : 27633373.6/115

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.648 ± 0.723 χ^2/NDF : 38.2/31

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 1.764 ± 0.724 χ^2/NDF : 35.2/33

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

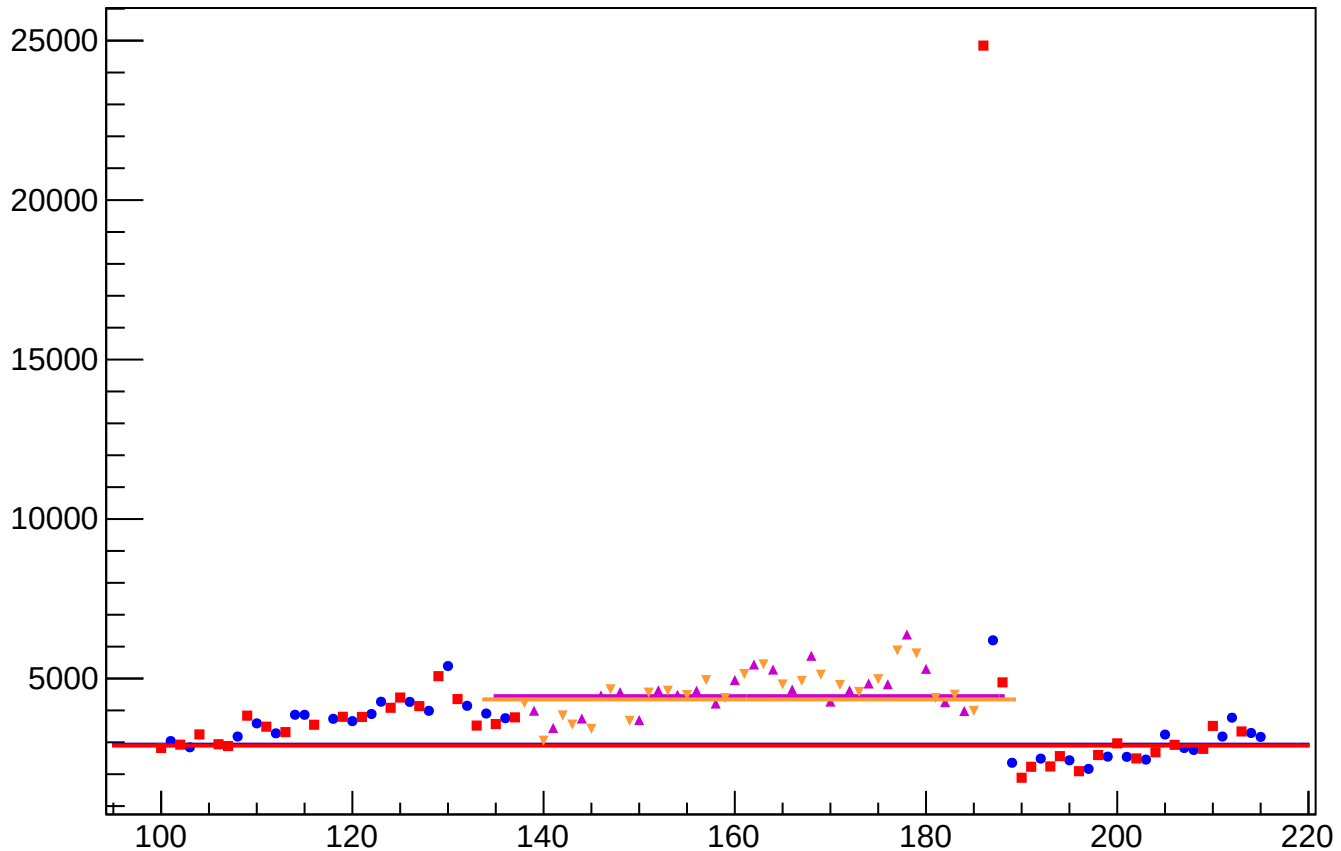
Right: 0.555 ± 0.512 χ^2/NDF : 79.0/65

In: -0.042 ± 0.600 χ^2/NDF : 71.3/54

Out: 0.429 ± 0.592 χ^2/NDF : 60.8/58

All: 0.197 ± 0.422 χ^2/NDF : 132.4/113

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2926.693+/-0.511 χ^2/NDF : 1419685.4/31

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2896.594+/-0.512 χ^2/NDF : 2338418.2/33

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

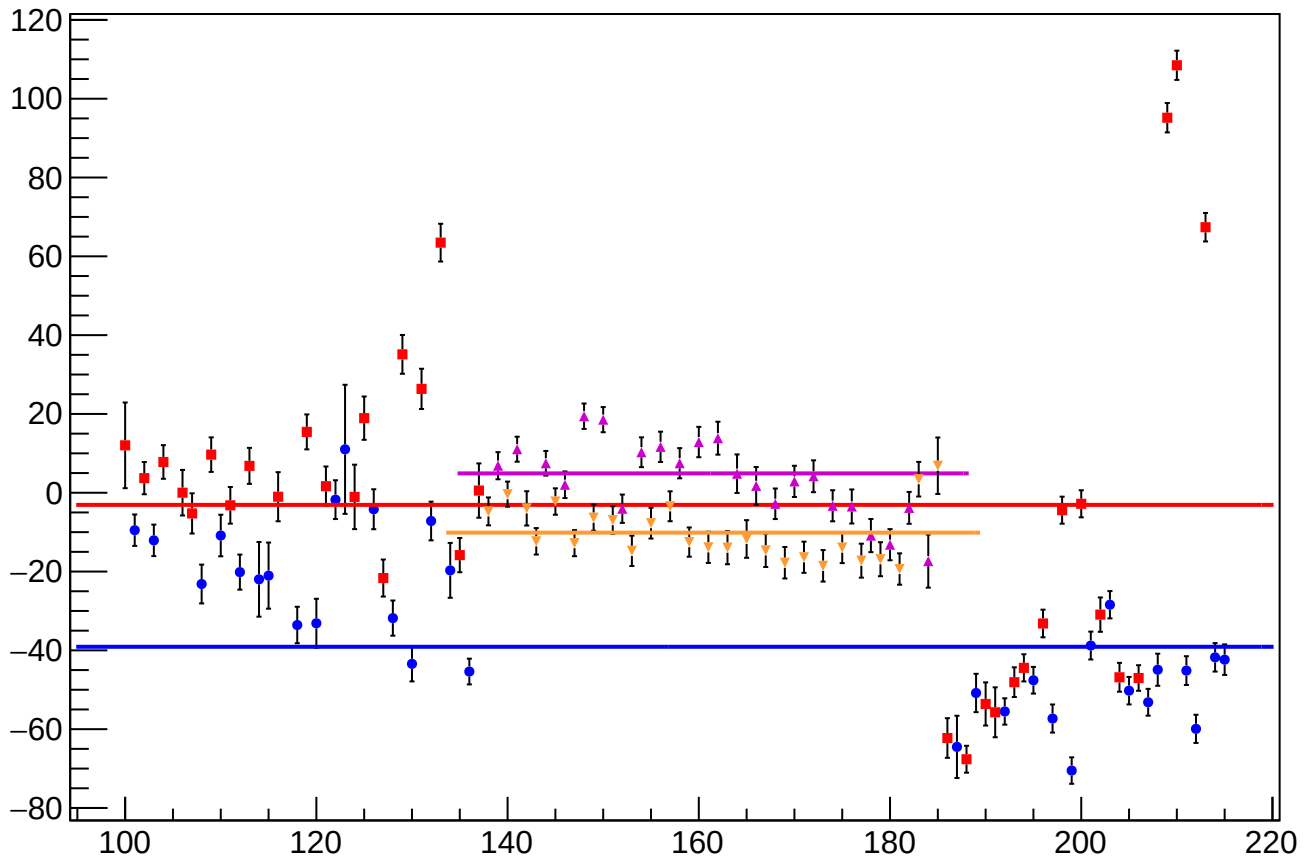
Right: 2911.679+/-0.362 χ^2/NDF : 3759834.9/65

In: 3398.281+/-0.424 χ^2/NDF : 4867673.0/54

Out: 3376.275+/-0.419 χ^2/NDF : 5988812.7/58

All: 3387.136+/-0.298 χ^2/NDF : 10857848.0/116

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -39.089±0.749 χ^2/NDF : 576.9/31

Left Out: -10.125±0.775 χ^2/NDF : 67.9/24

Right Out: -3.076±0.750 χ^2/NDF : 3726.1/33

Left In: 4.911±0.797 χ^2/NDF : 127.9/22

Left: -2.814±0.556 χ^2/NDF : 378.7/47

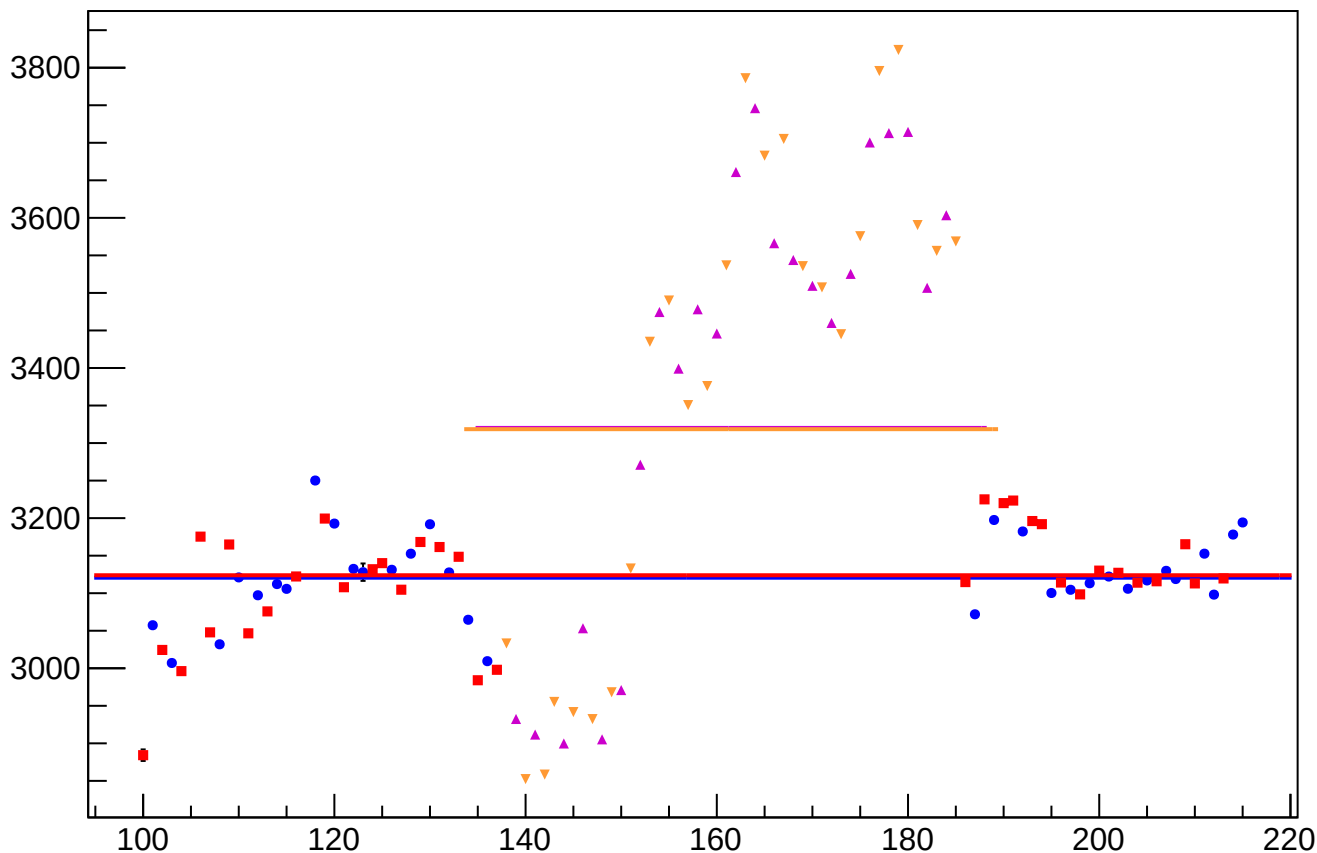
Right: -21.113±0.530 χ^2/NDF : 5457.0/65

In: -18.458±0.546 χ^2/NDF : 2323.1/54

Out: -6.484±0.539 χ^2/NDF : 3836.7/58

All: -12.398±0.384 χ^2/NDF : 6403.3/113

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3120.667 $\pm$ 0.530 χ^2 /NDF: 10644.2/31

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3123.909 $\pm$ 0.531 χ^2 /NDF: 14021.5/33

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

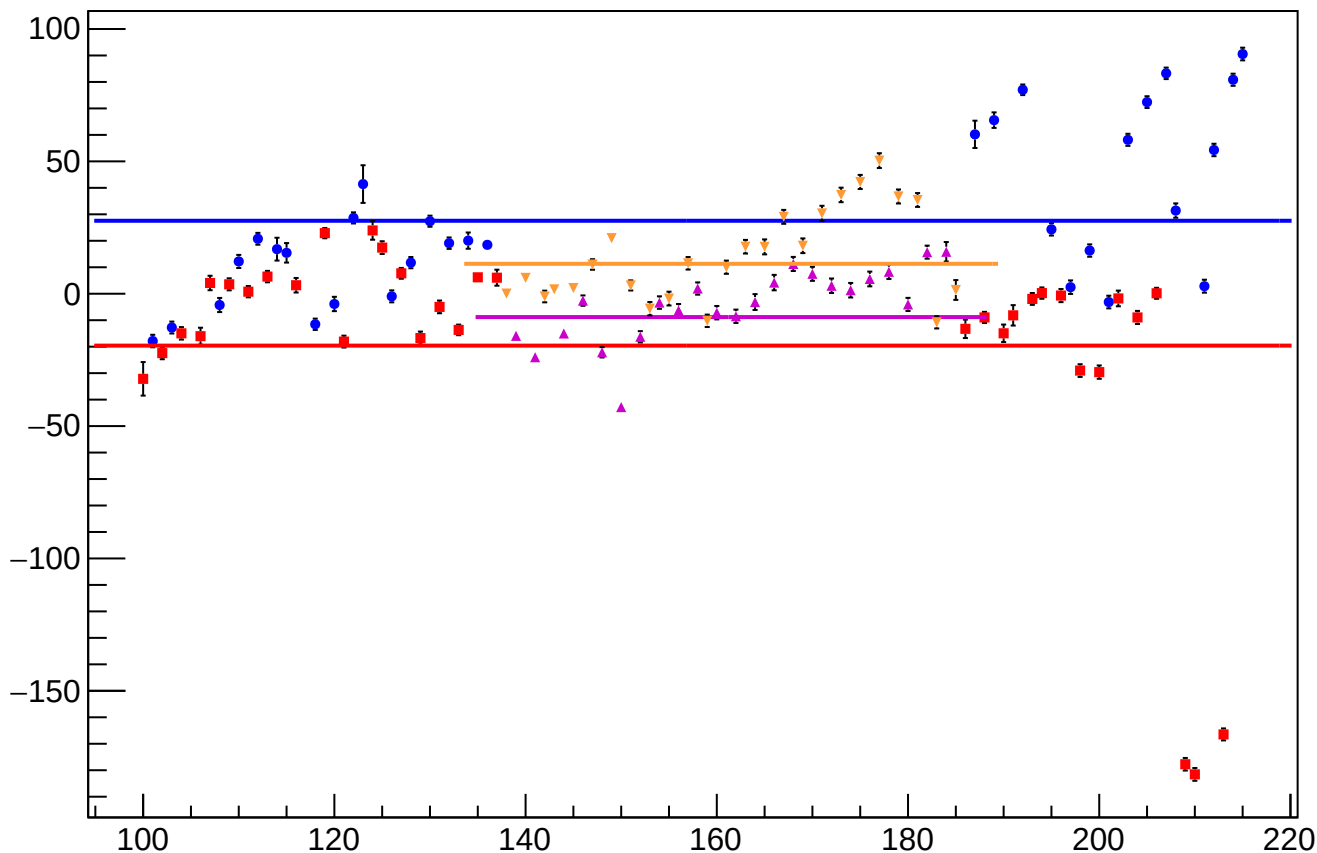
Right: 3122.285 $\pm$ 0.375 χ^2 /NDF: 24684.4/65

In: 3214.213 $\pm$ 0.386 χ^2 /NDF:364814.3/54

Out: 3217.995 $\pm$ 0.381 χ^2 /NDF:416768.1/58

All: 3216.127 $\pm$ 0.271 χ^2 /NDF: 781631.0/113

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 27.564 ± 0.419 $\chi^2/\text{NDF}: 5463.9/31$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -19.602 ± 0.417 $\chi^2/\text{NDF}: 15366.7/33$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

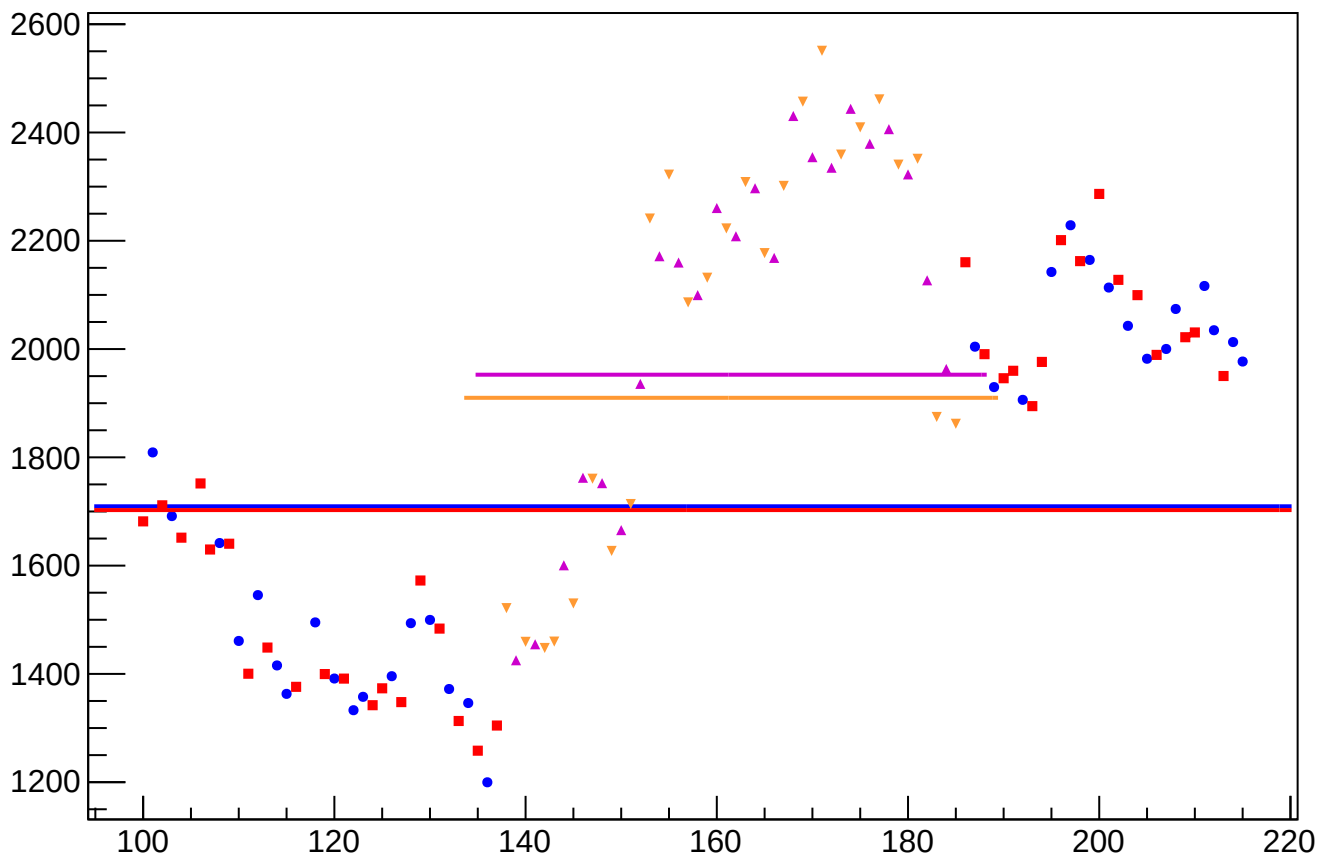
Right: 3.875 ± 0.295 $\chi^2/\text{NDF}: 27207.7/65$

In: 11.676 ± 0.314 $\chi^2/\text{NDF}: 9704.9/54$

Out: -5.465 ± 0.307 $\chi^2/\text{NDF}: 19027.3/58$

All: 2.907 ± 0.220 $\chi^2/\text{NDF}: 30255.3/113$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1709.584 ± 0.296 $\chi^2/\text{NDF}: 1257917.4/31$

Left Out: 1909.963 ± 0.321 $\chi^2/\text{NDF}: 1399467.7/24$

Right Out: 1702.580 ± 0.295 $\chi^2/\text{NDF}: 1183022.7/33$

Left In: 1952.637 ± 0.336 $\chi^2/\text{NDF}: 1065333.8/22$

Left: 1930.313 ± 0.232 $\chi^2/\text{NDF}: 2473233.3/47$

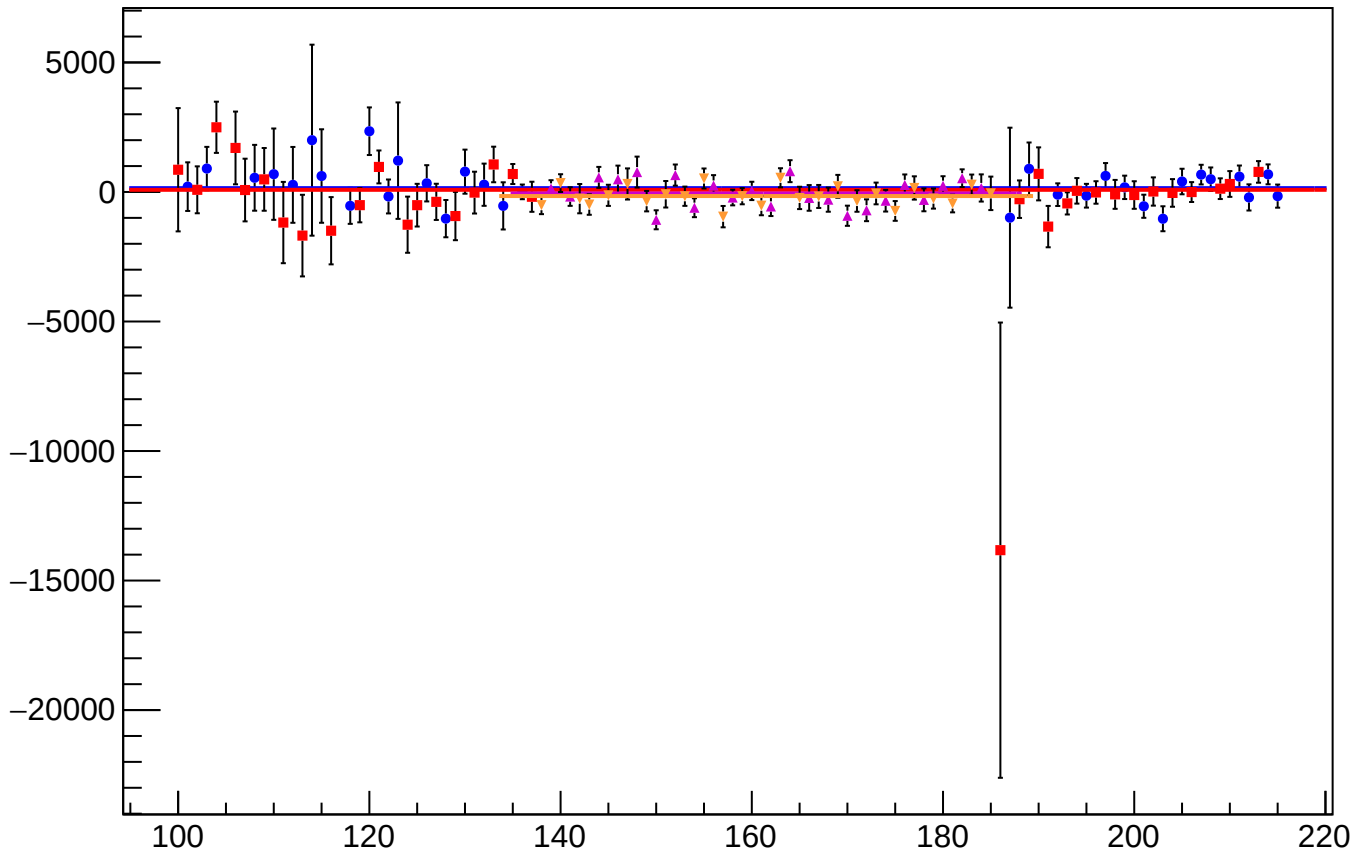
Right: 1706.066 ± 0.209 $\chi^2/\text{NDF}: 2441221.3/65$

In: 1815.732 ± 0.222 $\chi^2/\text{NDF}: 2617756.8/54$

Out: 1797.438 ± 0.217 $\chi^2/\text{NDF}: 2809074.8/58$

All: 1806.373 ± 0.155 $\chi^2/\text{NDF}: 5430301.4/11$

asym_sam1_mean vs Slug, Sign Corrected



Right In: 147.187+/-101.493 χ^2/NDF : 30.1/31

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 83.515+/-108.401 χ^2/NDF : 33.2/33

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

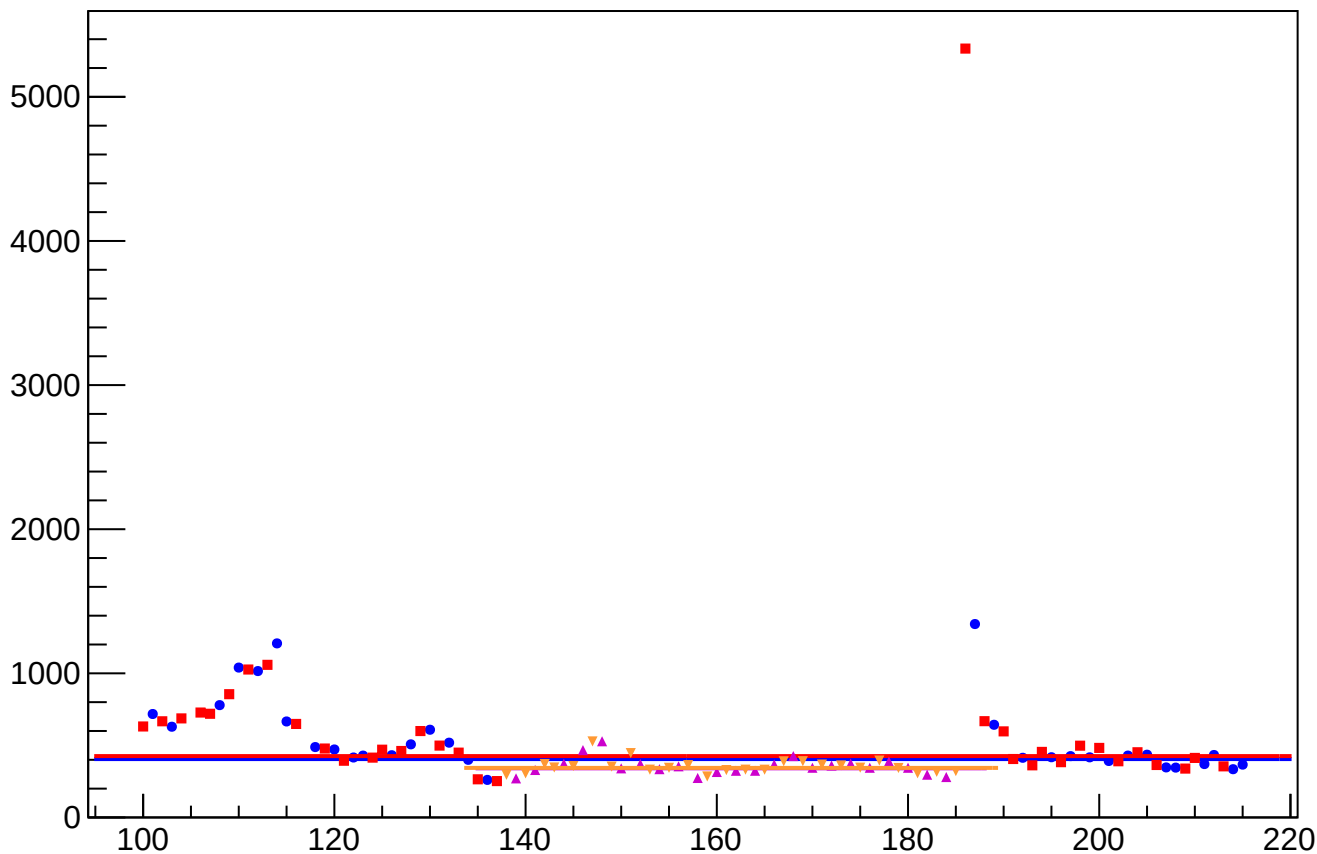
Right: 117.444+/-74.088 χ^2/NDF : 63.5/65

In: 23.175+/-64.057 χ^2/NDF :71.1/54

Out: -71.259+/-64.781 χ^2/NDF :58.4/58

All: -23.512+/-45.549 χ^2/NDF : 130.7/113

asym_sam1_rms vs Slug, Sign Corrected



Right In: 405.079+/-0.072 χ^2/NDF : 2498783.2/31

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 425.756+/-0.077 χ^2/NDF : 3329424.1/33

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

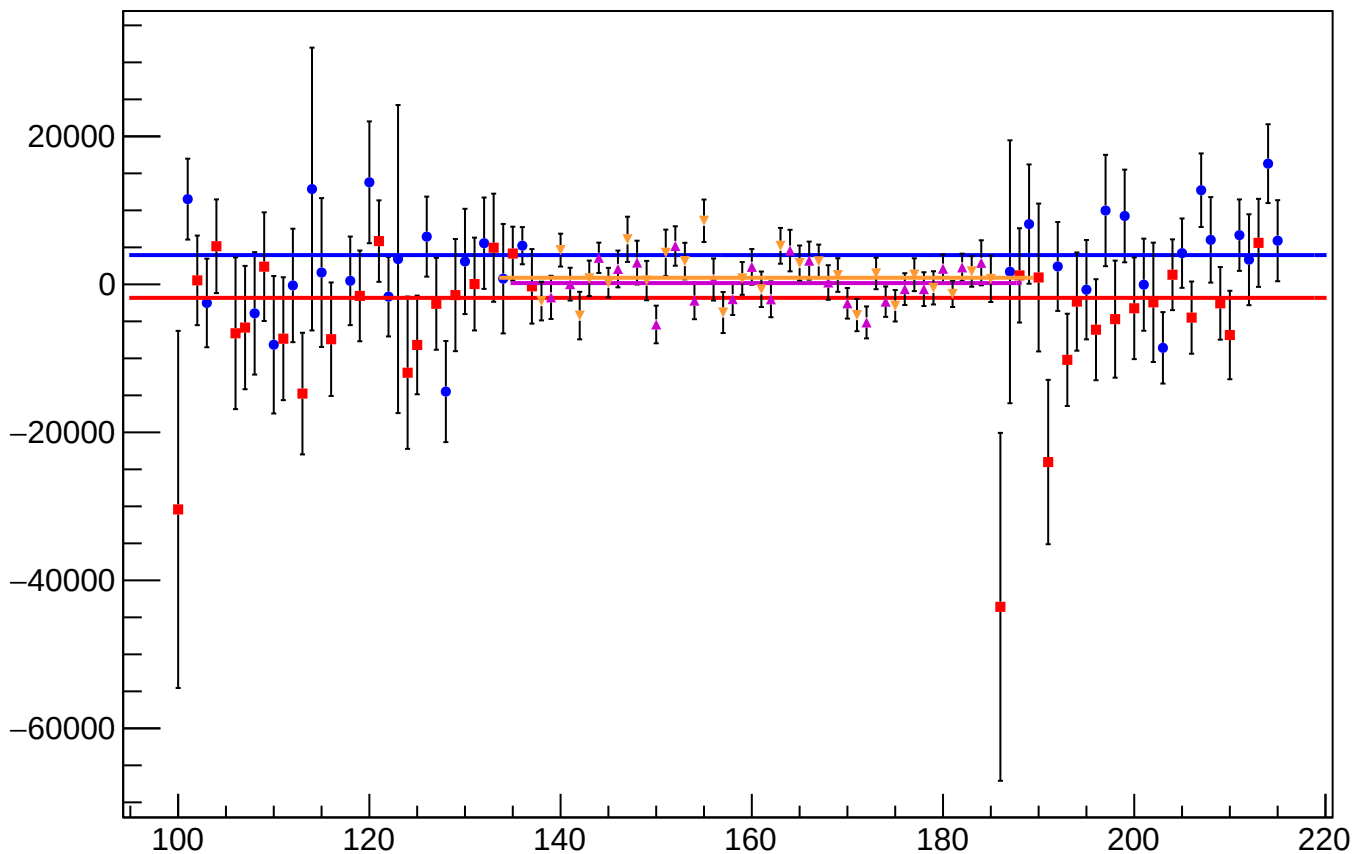
Right: 414.738+/-0.052 χ^2/NDF : 5866985.4/65

In: 366.452+/-0.045 χ^2/NDF : 3704971.0/54

Out: 373.074+/-0.046 χ^2/NDF : 4603675.1/58

All: 369.726+/-0.032 χ^2/NDF : 8319213.4/113

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3954.723+/-1048.636 χ^2/NDF : 35.5/31

Left Out: 890.395+/-473.262 χ^2/NDF : 38.0/24

Right Out: -1823.345+/-1126.801 χ^2/NDF : 27.5/33

Left In: 172.391+/-488.067 χ^2/NDF : 33.2/22

Left: 542.448+/-339.760 χ^2/NDF : 72.3/47

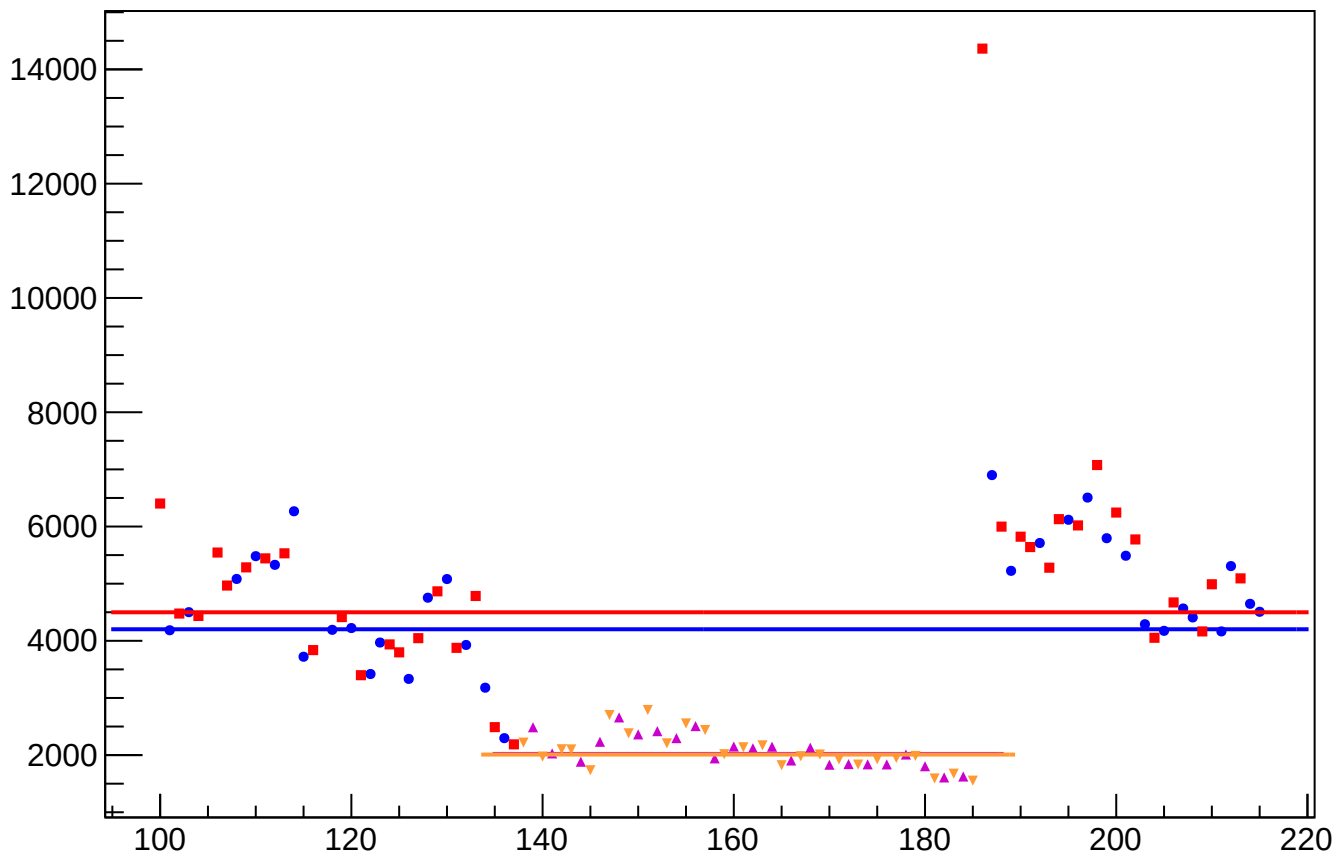
Right: 1273.031+/-767.645 χ^2/NDF : 77.1/65

In: 845.852+/-442.488 χ^2/NDF : 79.4/54

Out: 483.464+/-436.338 χ^2/NDF : 70.3/58

All: 662.123+/-310.689 χ^2/NDF : 150.1/113

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4202.171+/-0.741 χ^2/NDF : 2336764.2/31

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4499.391+/-0.797 χ^2/NDF : 2539836.0/33

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

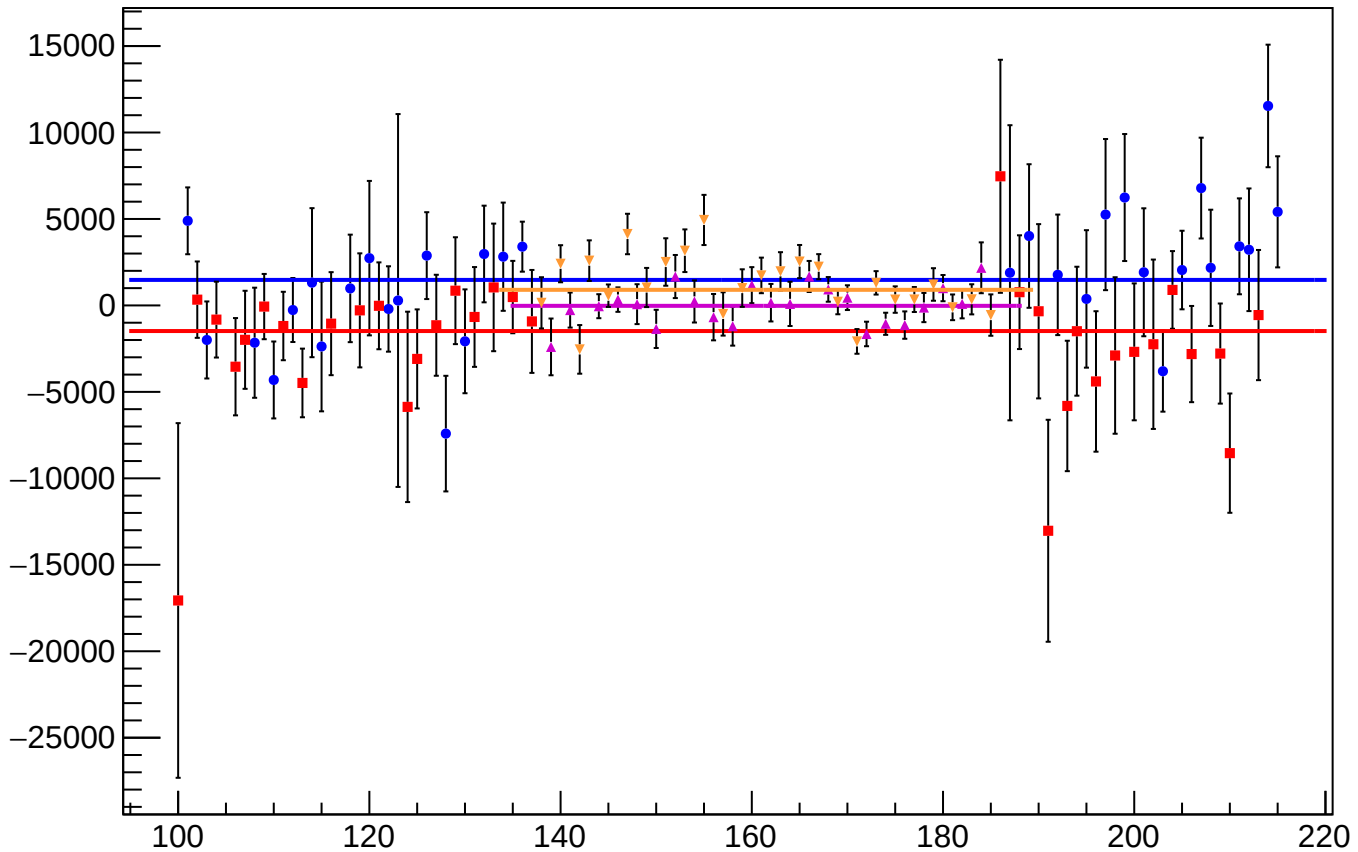
Right: 4340.115+/-0.543 χ^2/NDF : 4951169.9/65

In: 2408.846+/-0.313 χ^2/NDF : 10026570.4/54

Out: 2382.976+/-0.309 χ^2/NDF : 11550118.6/58

All: 2395.730+/-0.220 χ^2/NDF : 21580154.9/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1475.629+/-502.119 χ^2/NDF : 48.9/31

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1481.680+/-508.026 χ^2/NDF : 23.4/33

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

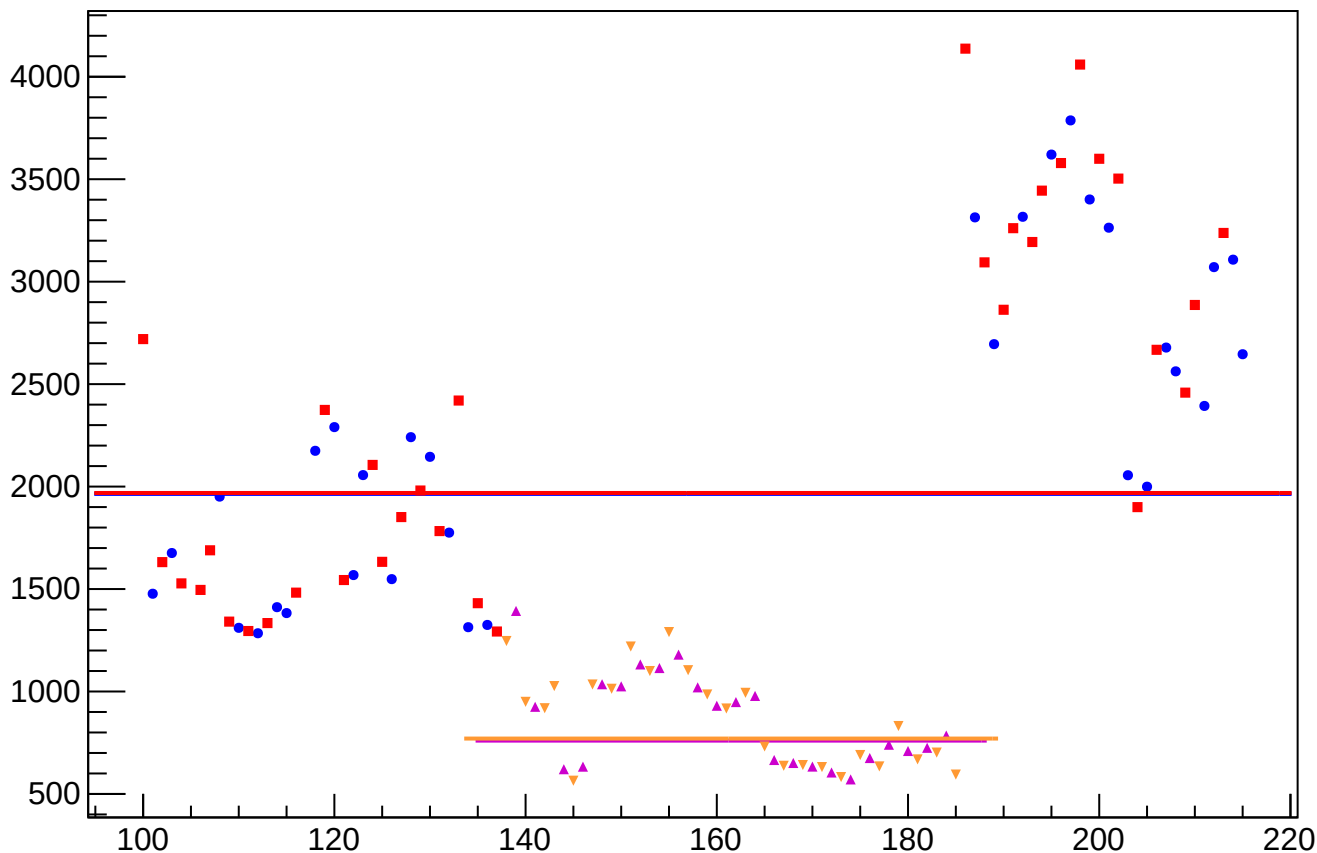
Right: 14.268+/-357.122 χ^2/NDF : 89.4/65

In: 161.027+/-176.176 χ^2/NDF : 84.9/54

Out: 620.726+/-174.538 χ^2/NDF : 106.3/58

All: 393.024+/-123.992 χ^2/NDF : 194.7/113

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1964.290+/-0.355 χ^2/NDF : 3706868.1/31

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1968.810+/-0.359 χ^2/NDF : 4258721.5/33

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

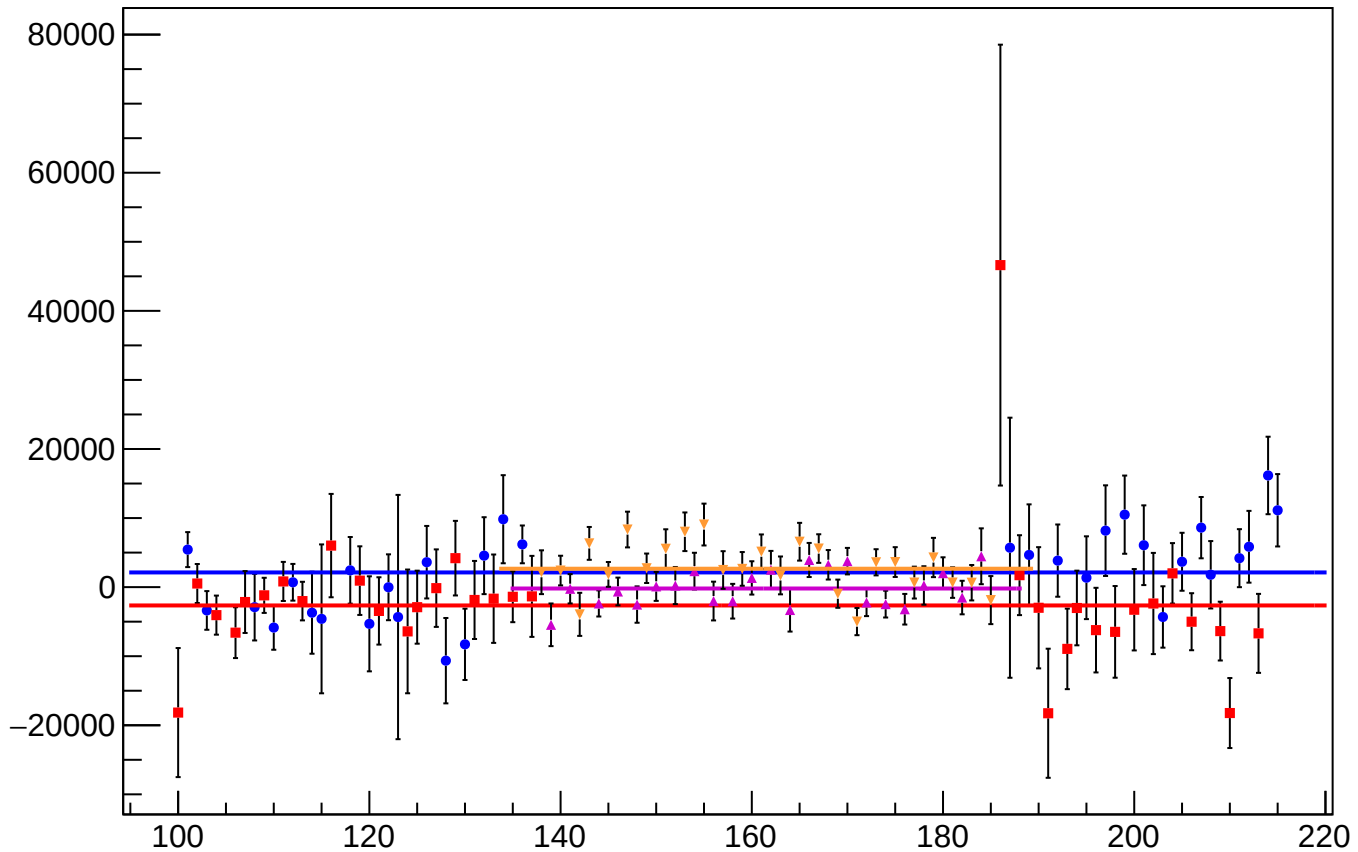
Right: 1966.524+/-0.253 χ^2/NDF : 7965669.7/65

In: 908.564+/-0.125 χ^2/NDF : 15776214.0/54

Out: 911.782+/-0.123 χ^2/NDF : 16363381.0/58

All: 910.188+/-0.088 χ^2/NDF : 32139931.6/11

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2127.486 $\pm$ 806.761 χ^2 /NDF: 46.4/31

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF:49.2/24

Right Out: -2652.399 $\pm$ 786.139 χ^2 /NDF: 31.2/33

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF:25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

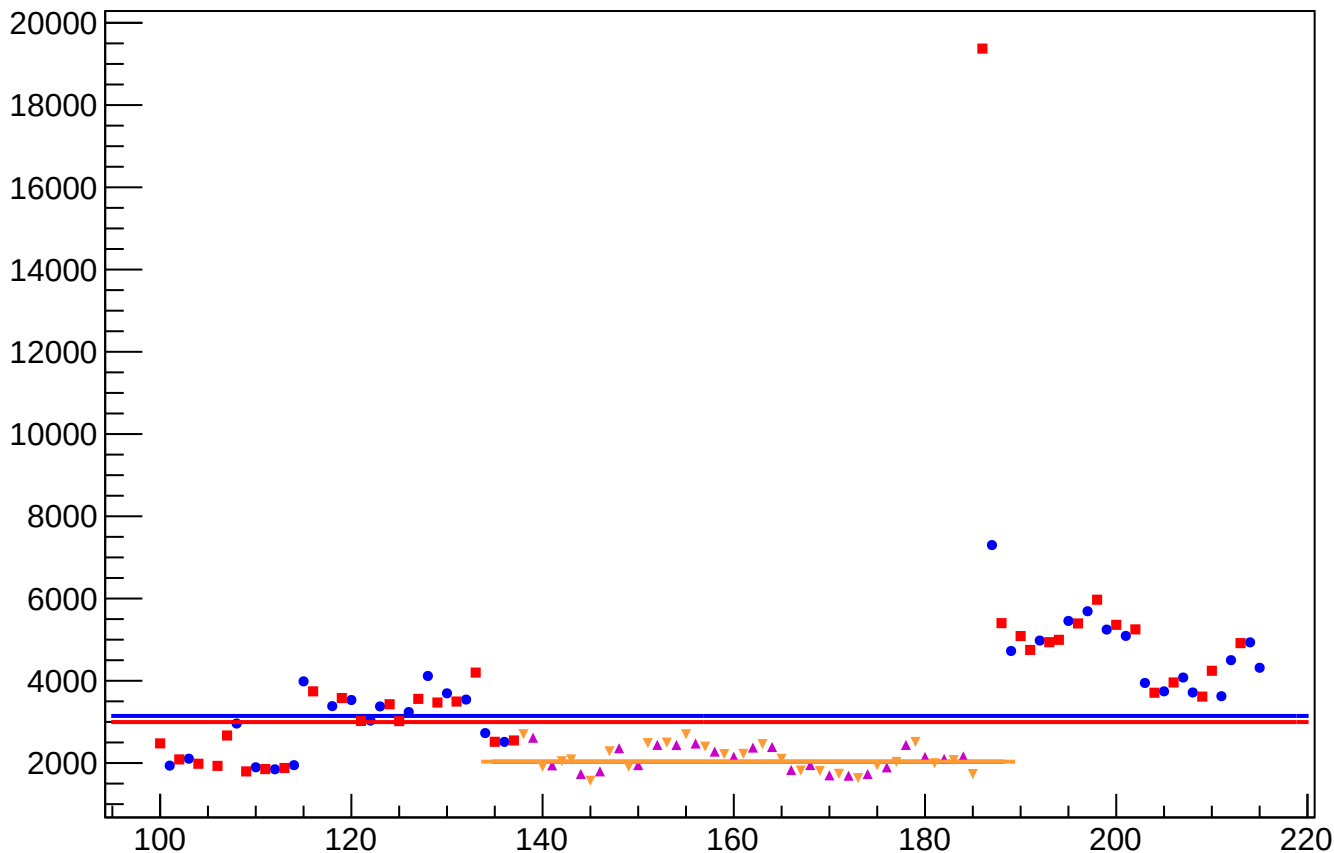
Right: -324.329 $\pm$ 563.034 χ^2 /NDF: 95.6/65

In: 431.571 $\pm$ 420.102 χ^2 /NDF:78.2/54

Out: 1222.399 $\pm$ 409.531 χ^2 /NDF:113.7/58

All: 837.060 $\pm$ 293.248 χ^2 /NDF: 193.8/113

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3145.166+/-0.570 χ^2/NDF : 4042256.6/31

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2996.021+/-0.556 χ^2/NDF : 5282344.8/33

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

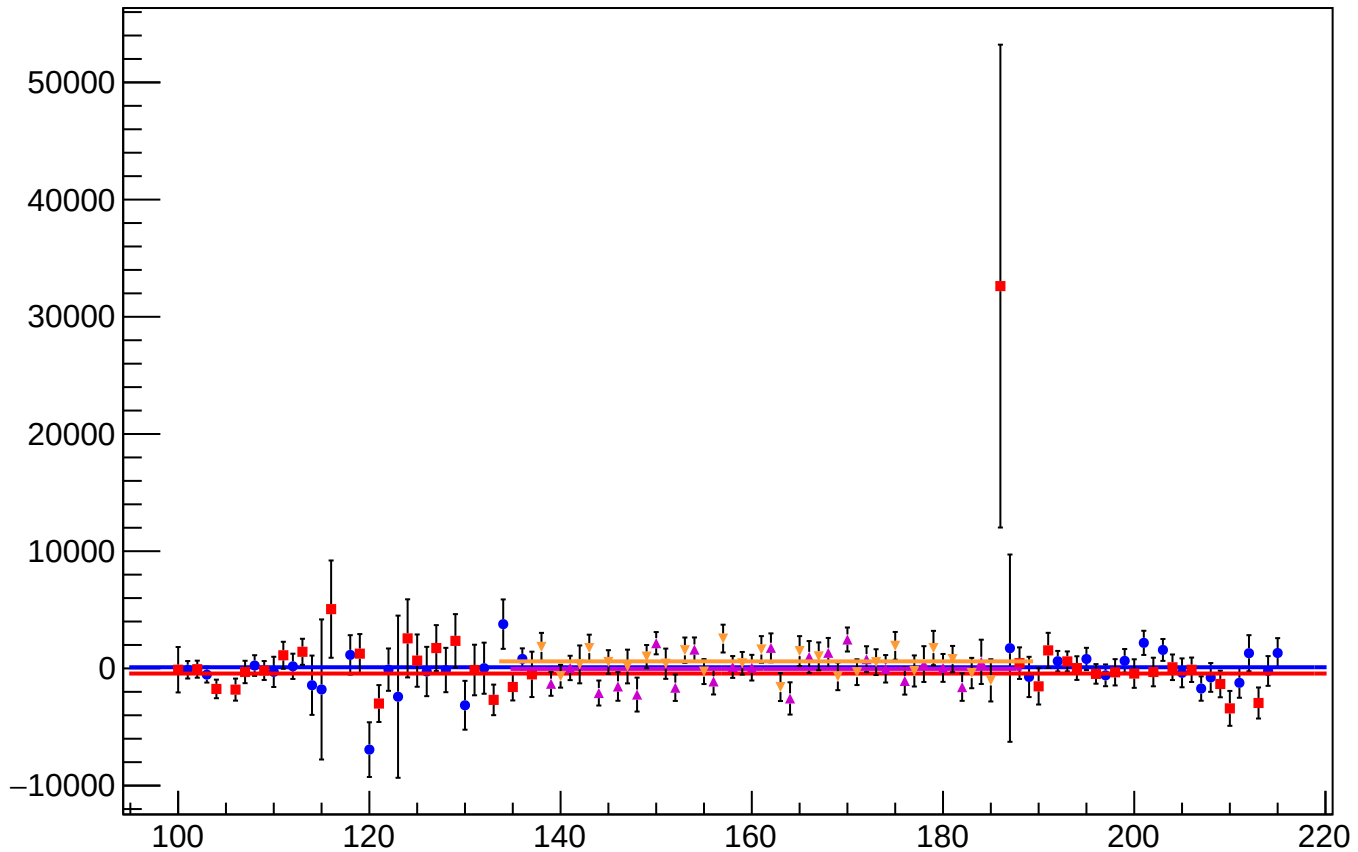
Right: 3068.663+/-0.398 χ^2/NDF : 9359662.5/65

In: 2334.319+/-0.297 χ^2/NDF : 7466955.2/54

Out: 2294.589+/-0.290 χ^2/NDF : 8291657.2/58

All: 2313.948+/-0.207 χ^2/NDF : 15767784.1/113

asym_sam5_mean vs Slug, Sign Corrected



Right In: 98.180+/-214.803 χ^2/NDF : 32.2/31

Left Out: 600.005+/-234.968 χ^2/NDF : 18.5/24

Right Out: -438.573+/-206.803 χ^2/NDF : 38.6/33

Left In: -41.559+/-240.807 χ^2/NDF : 36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

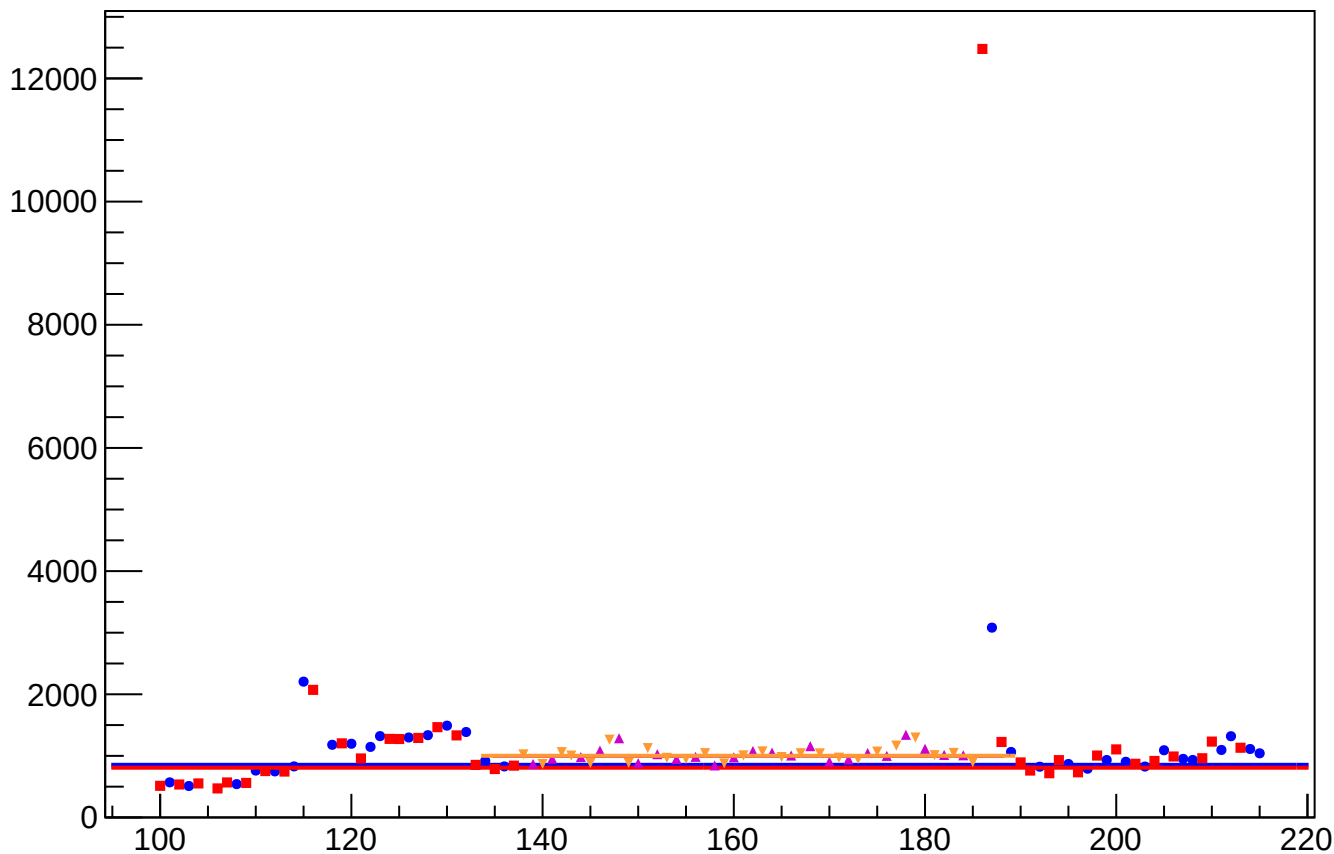
Right: -180.378+/-148.980 χ^2/NDF : 74.1/65

In: 36.260+/-160.297 χ^2/NDF : 68.8/54

Out: 14.770+/-155.239 χ^2/NDF : 68.1/58

All: 25.170+/-111.516 χ^2/NDF : 136.9/113

asym_sam5_rms vs Slug, Sign Corrected



Right In: 854.466+/-0.152 χ^2/NDF : 2588222.3/31

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 807.817+/-0.146 χ^2/NDF : 3464697.2/33

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

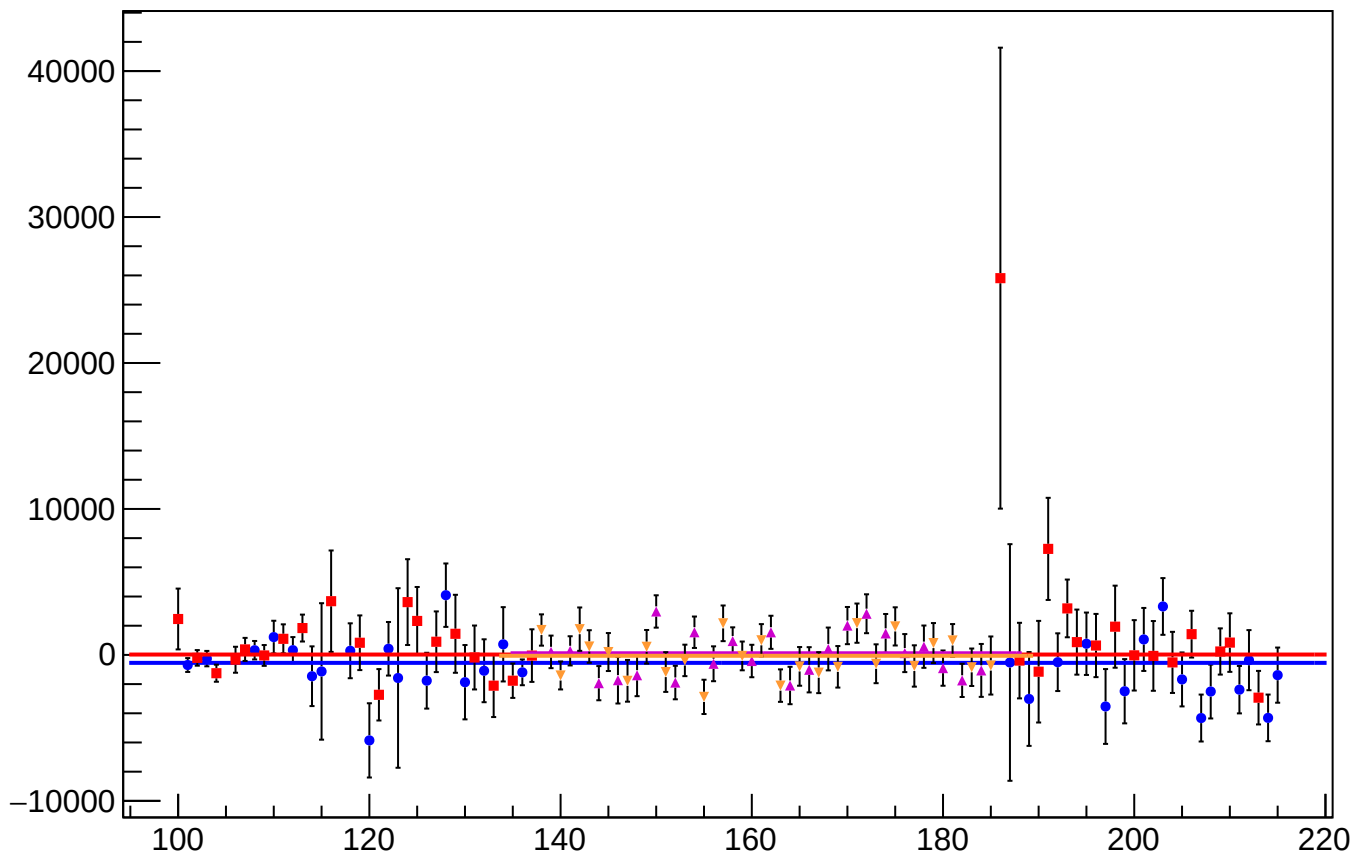
Right: 830.257+/-0.105 χ^2/NDF : 6101871.9/65

In: 918.090+/-0.113 χ^2/NDF : 3388856.1/54

Out: 892.348+/-0.110 χ^2/NDF : 4600518.9/58

All: 904.806+/-0.079 χ^2/NDF : 8015989.5/113

asym_sam6_mean vs Slug, Sign Corrected



Right In: -544.943+/-225.892 χ^2/NDF : 38.6/31

Left Out: -59.827+/-246.503 χ^2/NDF :31.0/24

Right Out: 25.066+/-226.340 χ^2/NDF : 35.7/33

Left In: 112.398+/-255.409 χ^2/NDF :34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

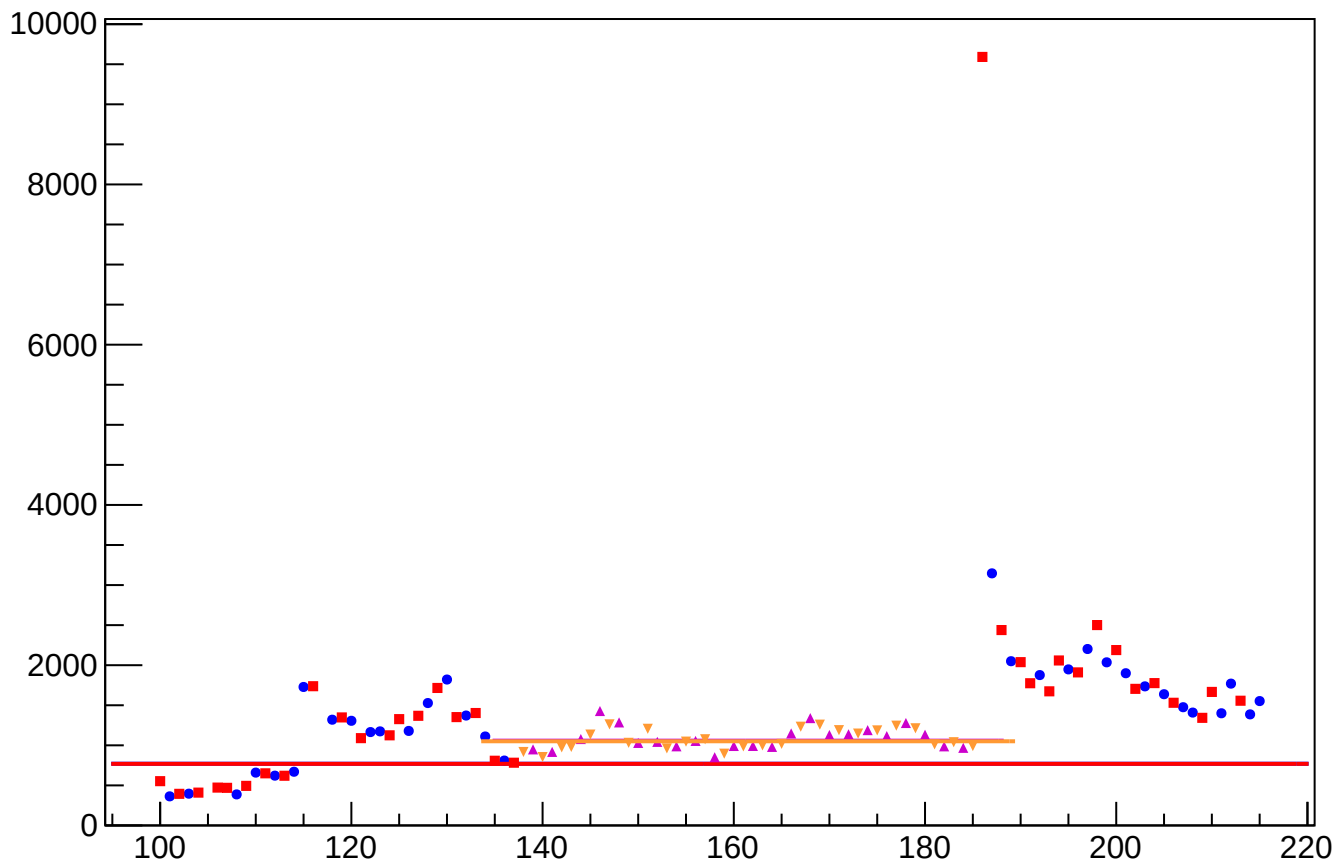
Right: -260.504+/-159.888 χ^2/NDF : 77.4/65

In: -256.436+/-169.208 χ^2/NDF :77.2/54

Out: -13.767+/-166.720 χ^2/NDF :66.7/58

All: -133.305+/-118.758 χ^2/NDF : 144.9/113

asym_sam6_rms vs Slug, Sign Corrected



Right In: 770.378+/-0.160 χ^2/NDF : 11126501.7/31

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 768.984+/-0.160 χ^2/NDF : 11176465.3/33

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

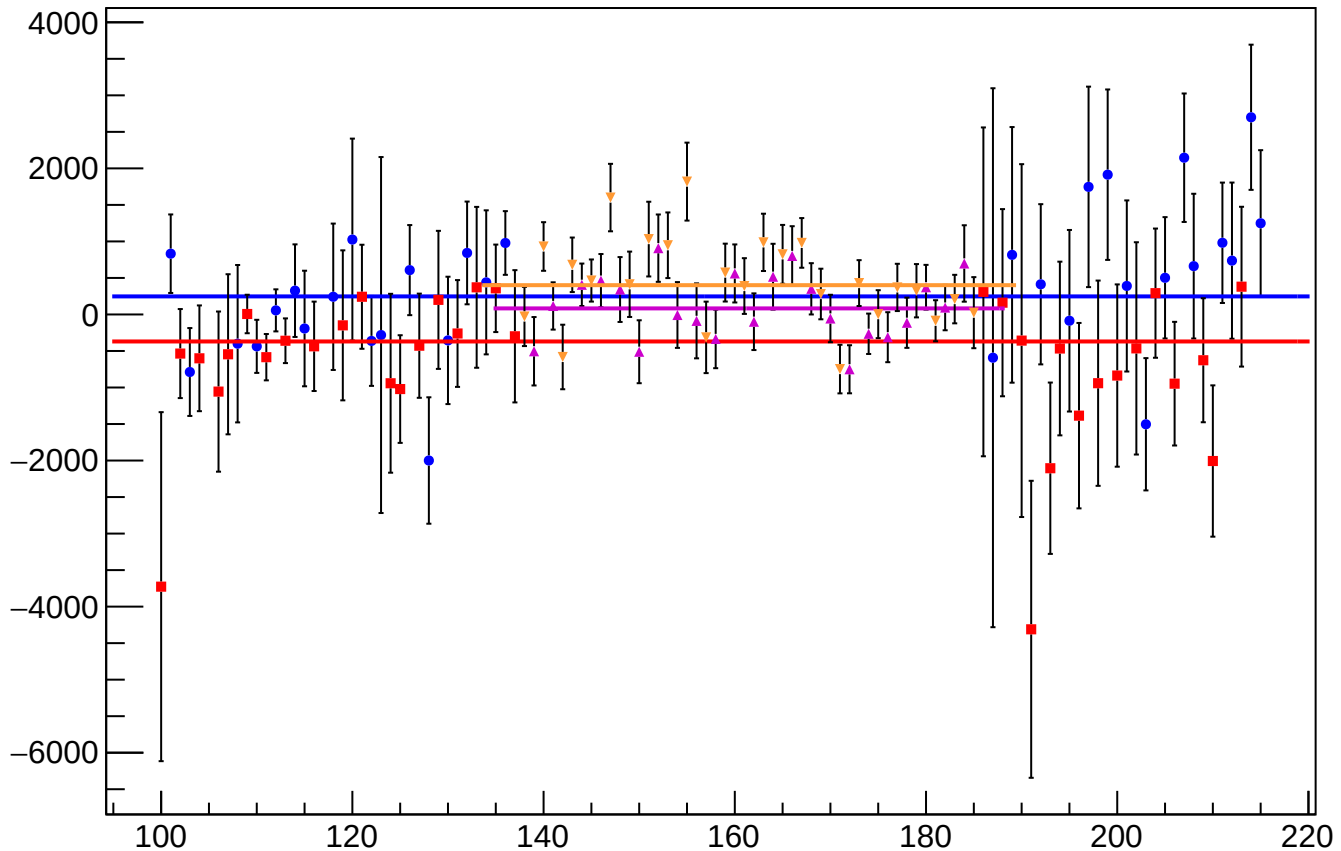
Right: 769.682+/-0.113 χ^2/NDF : 22303005.1/65

In: 896.658+/-0.120 χ^2/NDF : 13079153.1/54

Out: 897.827+/-0.118 χ^2/NDF : 13076394.9/58

All: 897.251+/-0.084 χ^2/NDF : 26155596.4/113

asym_sam7_mean vs Slug, Sign Corrected



Right In: 247.256+/-127.072 χ^2/NDF : 41.5/31

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -369.747+/-119.466 χ^2/NDF : 20.4/33

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

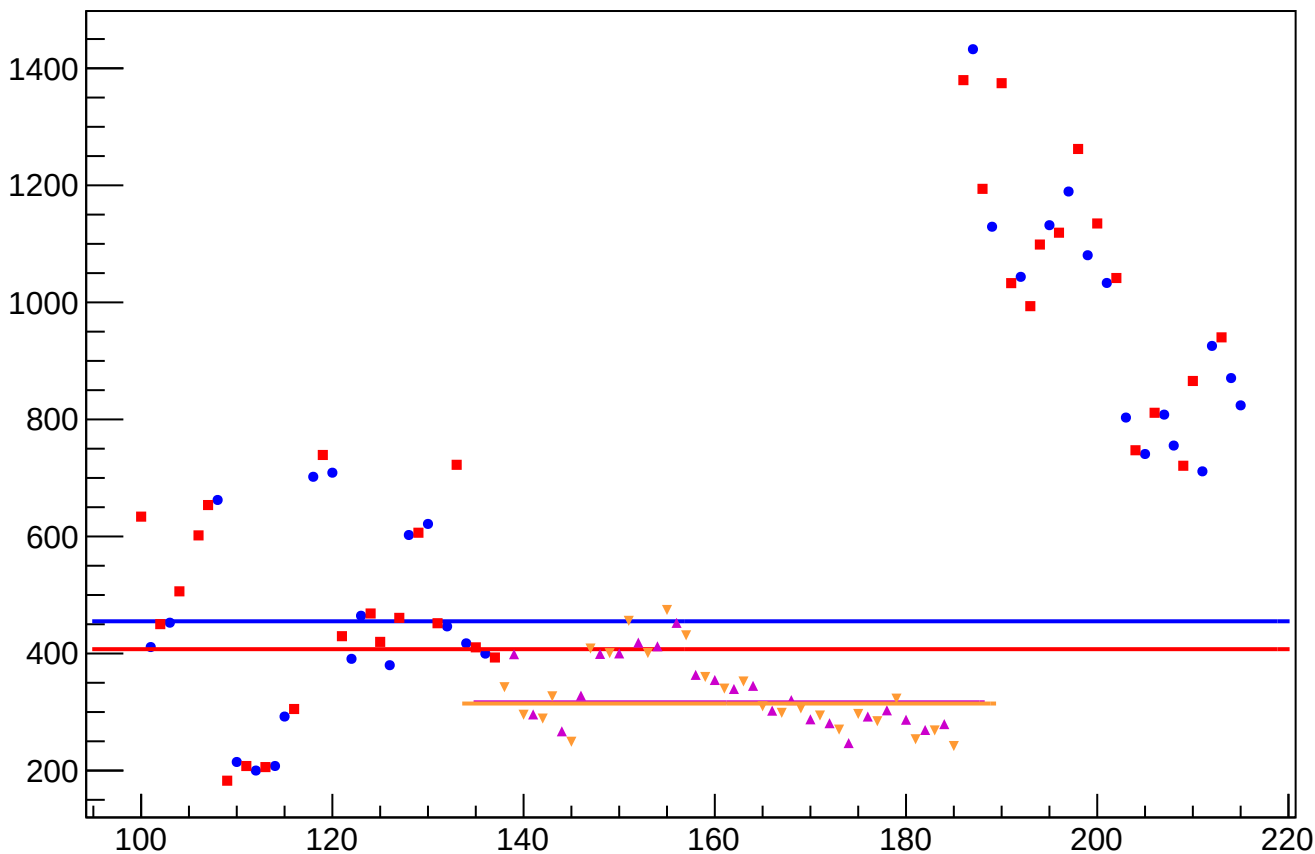
Right: -80.264+/-87.040 χ^2/NDF : 74.5/65

In: 126.953+/-65.793 χ^2/NDF : 71.7/54

Out: 184.988+/-63.244 χ^2/NDF : 102.5/58

All: 157.117+/-45.595 χ^2/NDF : 174.6/113

asym_sam7_rms vs Slug, Sign Corrected



Right In: 455.080 $\pm$ 0.090 χ^2/NDF : 8809091.8/31

Left Out: 314.538 $\pm$ 0.053 χ^2/NDF : 1112445.6/24

Right Out: 407.424 $\pm$ 0.084 χ^2/NDF : 11017110.3/33

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

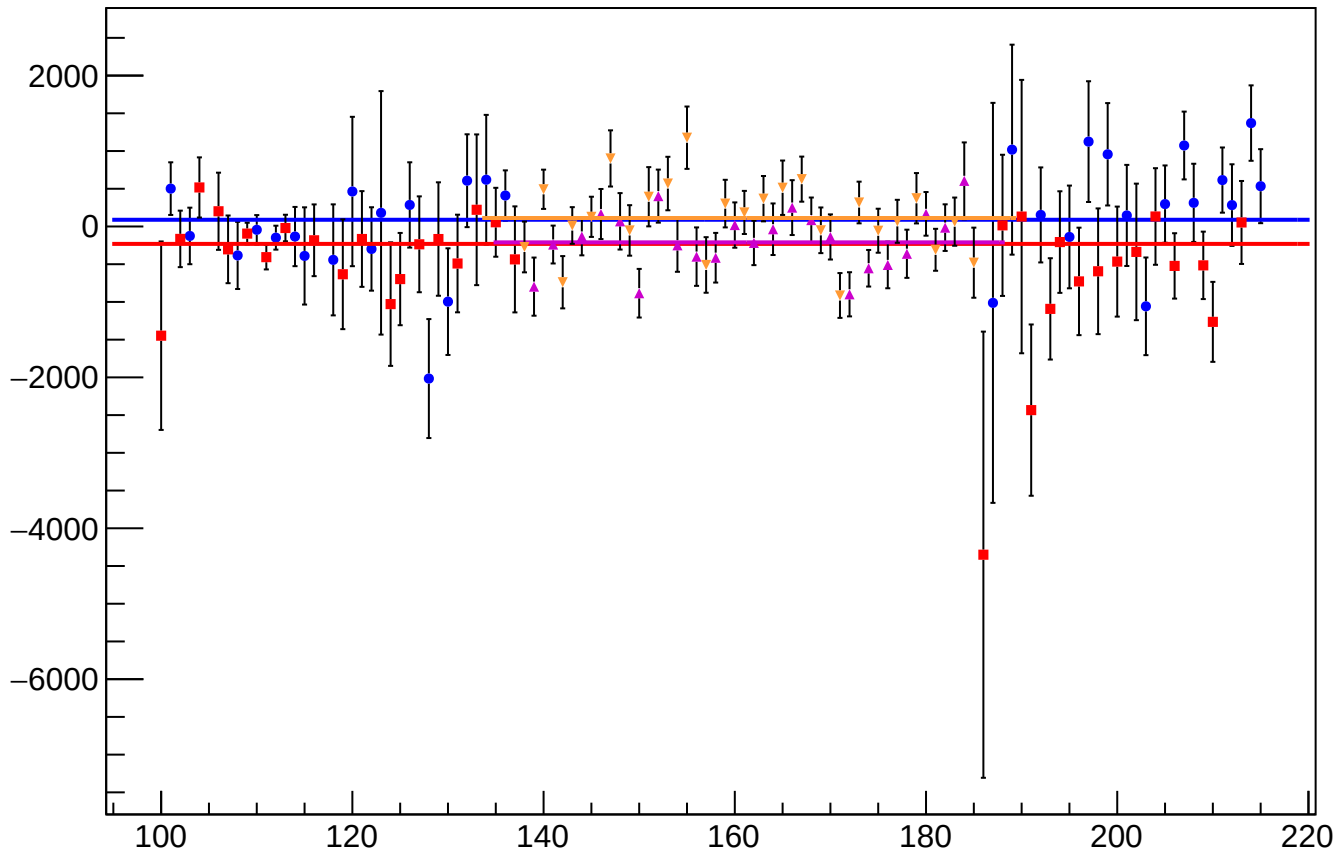
Right: 429.783 $\pm$ 0.062 χ^2/NDF : 19975521.1/65

In: 353.758 $\pm$ 0.047 χ^2/NDF : 11467278.1/54

Out: 340.570 $\pm$ 0.045 χ^2/NDF : 12999770.6/58

All: 346.903 $\pm$ 0.032 χ^2/NDF : 24508815.8/11

asym_sam8_mean vs Slug, Sign Corrected



Right In: 89.016 ± 77.922 $\chi^2/\text{NDF}: 40.6/31$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -230.837 ± 70.408 $\chi^2/\text{NDF}: 25.0/33$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

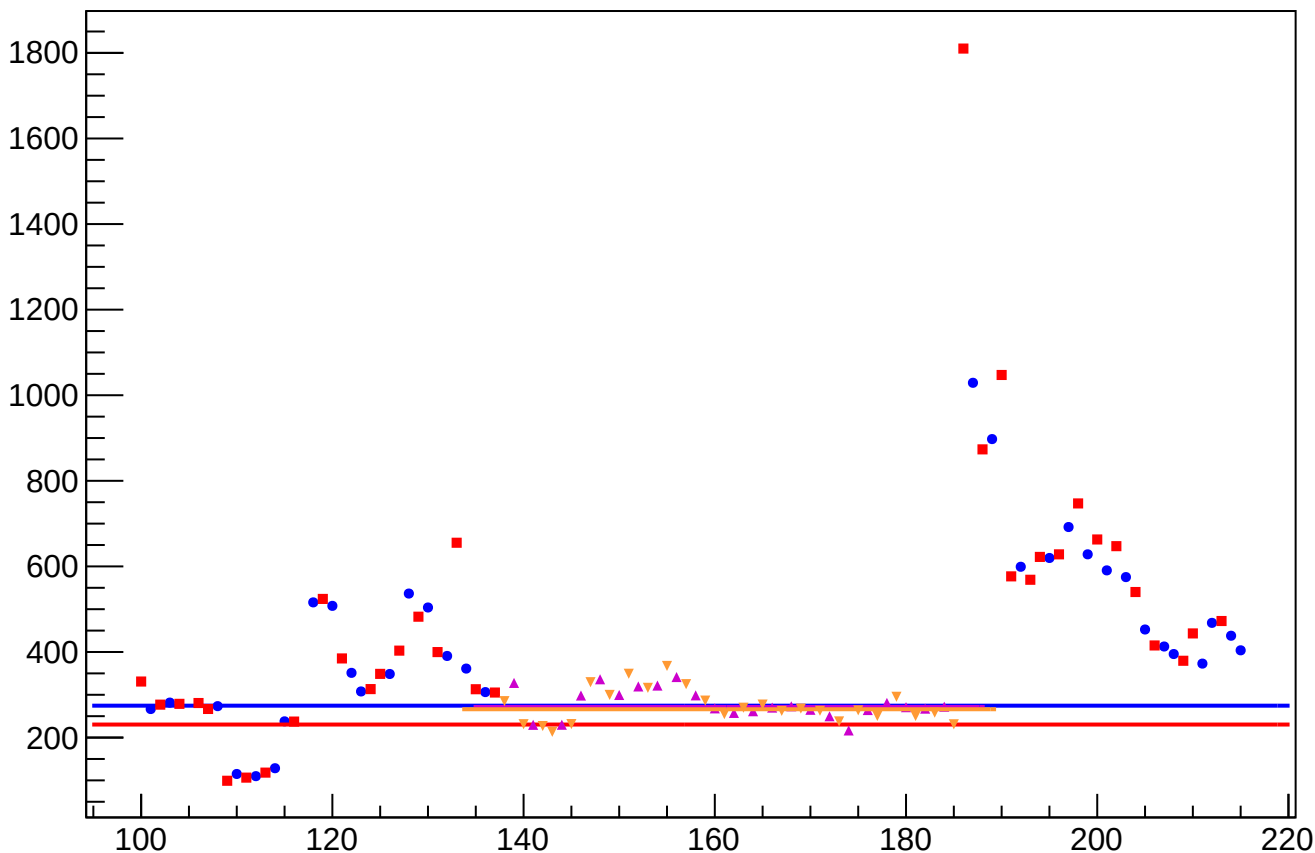
Right: -87.072 ± 52.241 $\chi^2/\text{NDF}: 74.8/65$

In: -86.440 ± 50.144 $\chi^2/\text{NDF}: 78.4/54$

Out: -39.344 ± 46.801 $\chi^2/\text{NDF}: 87.4/58$

All: -61.270 ± 34.214 $\chi^2/\text{NDF}: 166.2/113$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 274.551+/-0.055 χ^2/NDF : 9548346.5/31

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 230.453+/-0.050 χ^2/NDF : 12833622.4/33

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

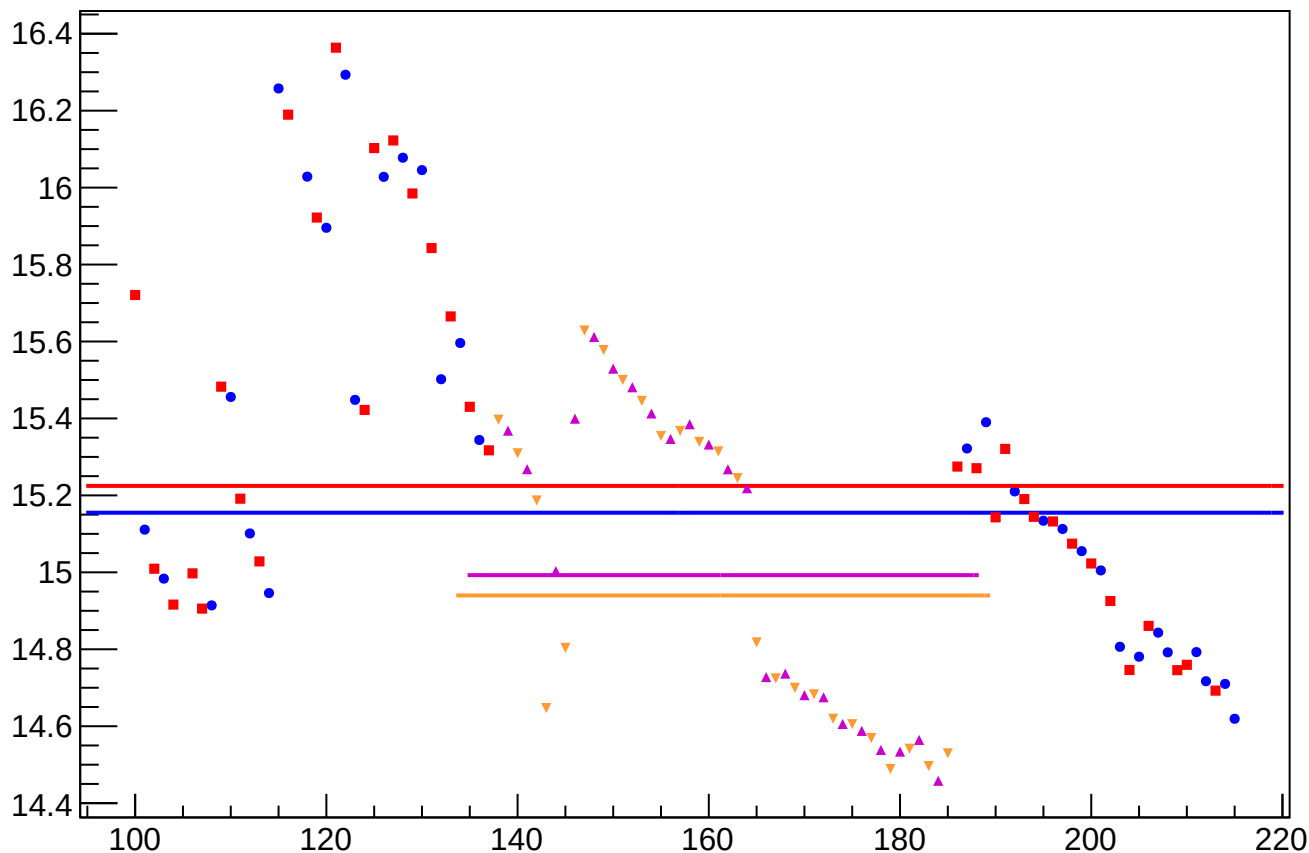
Right: 250.274+/-0.037 χ^2/NDF : 22734609.0/65

In: 272.714+/-0.035 χ^2/NDF : 10072122.5/54

Out: 250.410+/-0.033 χ^2/NDF : 13771124.5/58

All: 260.793+/-0.024 χ^2/NDF : 24054725.7/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.155 $\pm$ 0.000 χ^2/NDF : 19960980009.1/31

Left Out: 14.940 $\pm$ 0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.225 $\pm$ 0.000 χ^2/NDF : 17289690065.7/33

Left In: 14.993 $\pm$ 0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2/NDF : 46444749587.5/47

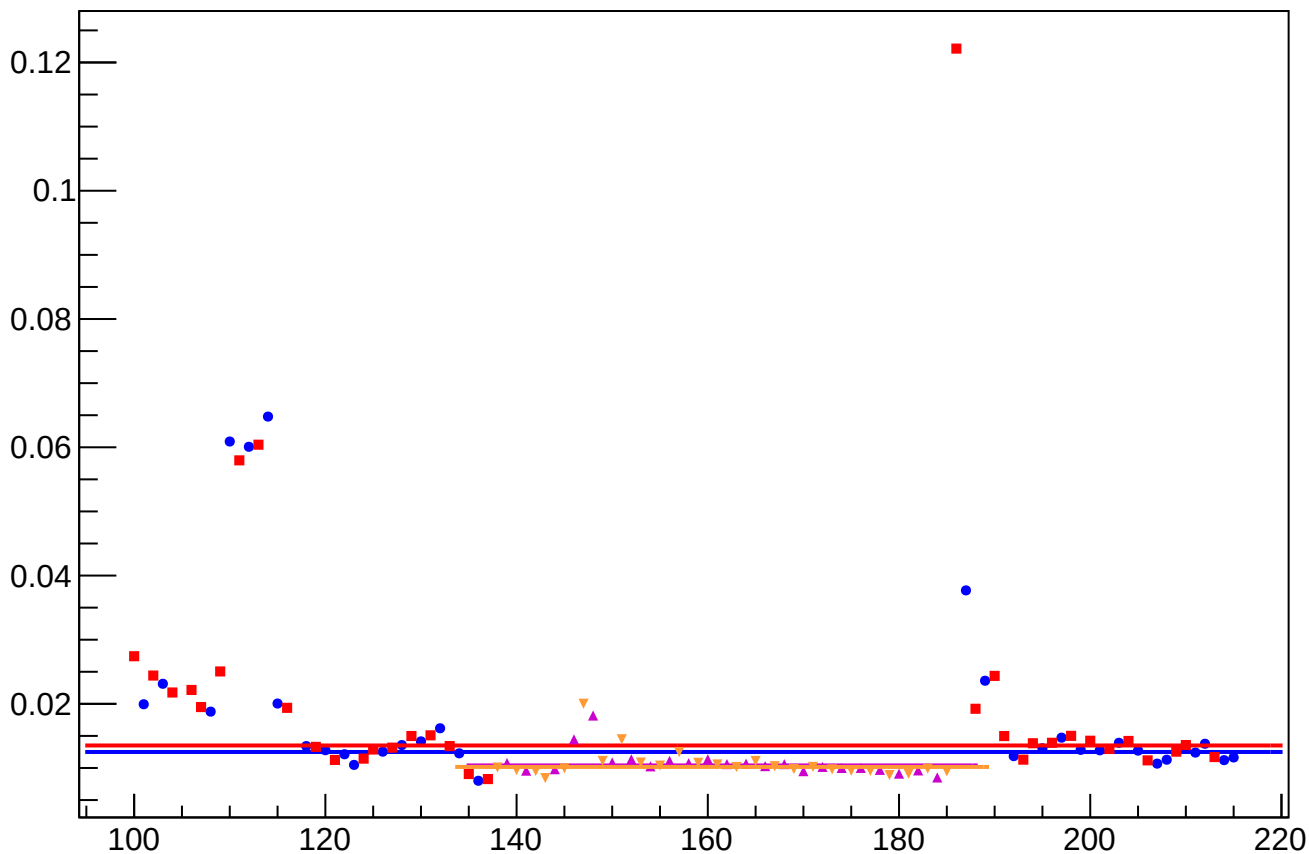
Right: 15.187 $\pm$ 0.000 χ^2/NDF : 37465438155.5/65

In: 15.056 $\pm$ 0.000 χ^2/NDF : 43547580992.6/54

Out: 15.033 $\pm$ 0.000 χ^2/NDF : 45912309722.9/58

All: 15.044 $\pm$ 0.000 χ^2/NDF : 89527125894.1

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2610237.5/31

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3134733.5/33

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

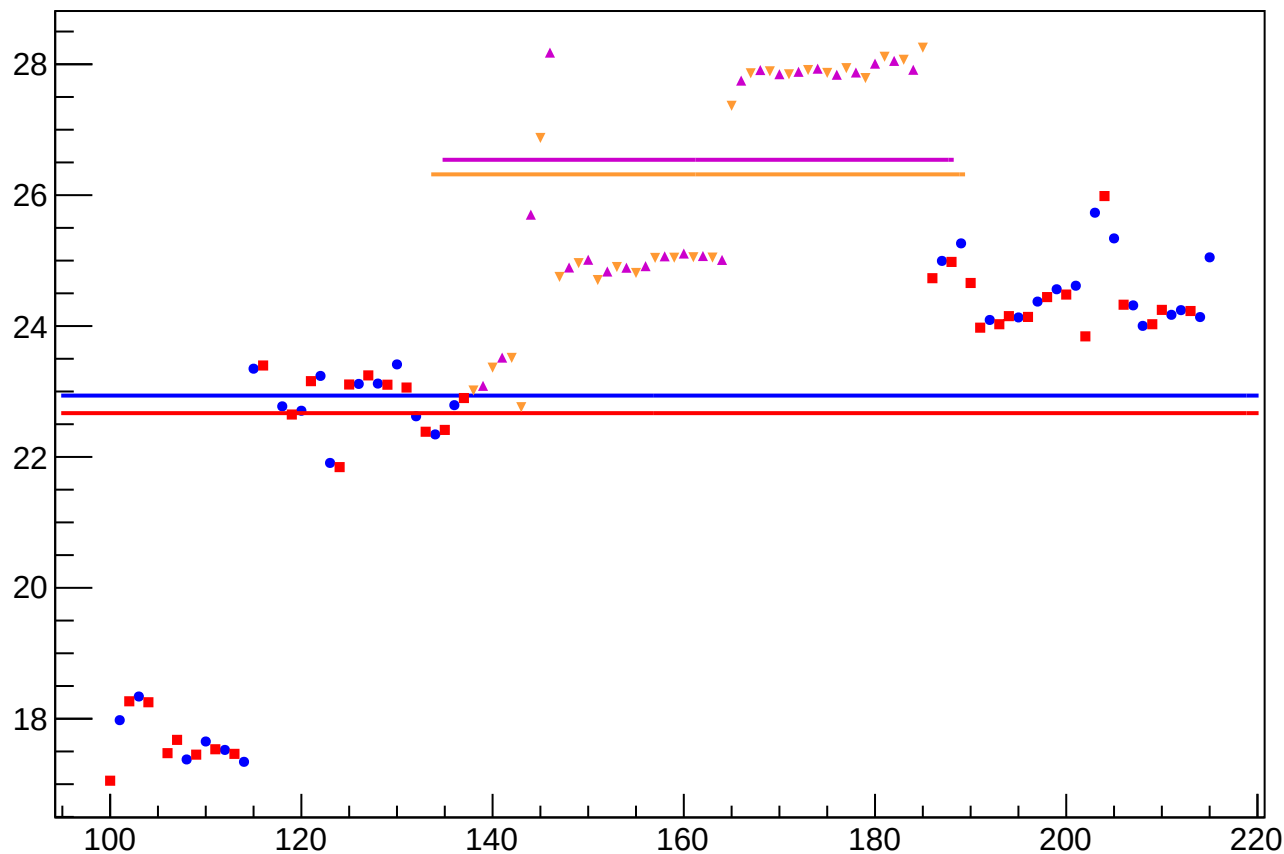
Right: 0.013+/-0.000 χ^2/NDF : 5835570.6/65

In: 0.011+/-0.000 χ^2/NDF : 3677400.3/54

Out: 0.011+/-0.000 χ^2/NDF : 5072631.2/58

All: 0.011+/-0.000 χ^2/NDF : 8750388.4/113

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.938+/-0.000 χ^2/NDF : 1432202611.1/31

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 22.669+/-0.000 χ^2/NDF : 1568954765.7/33

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

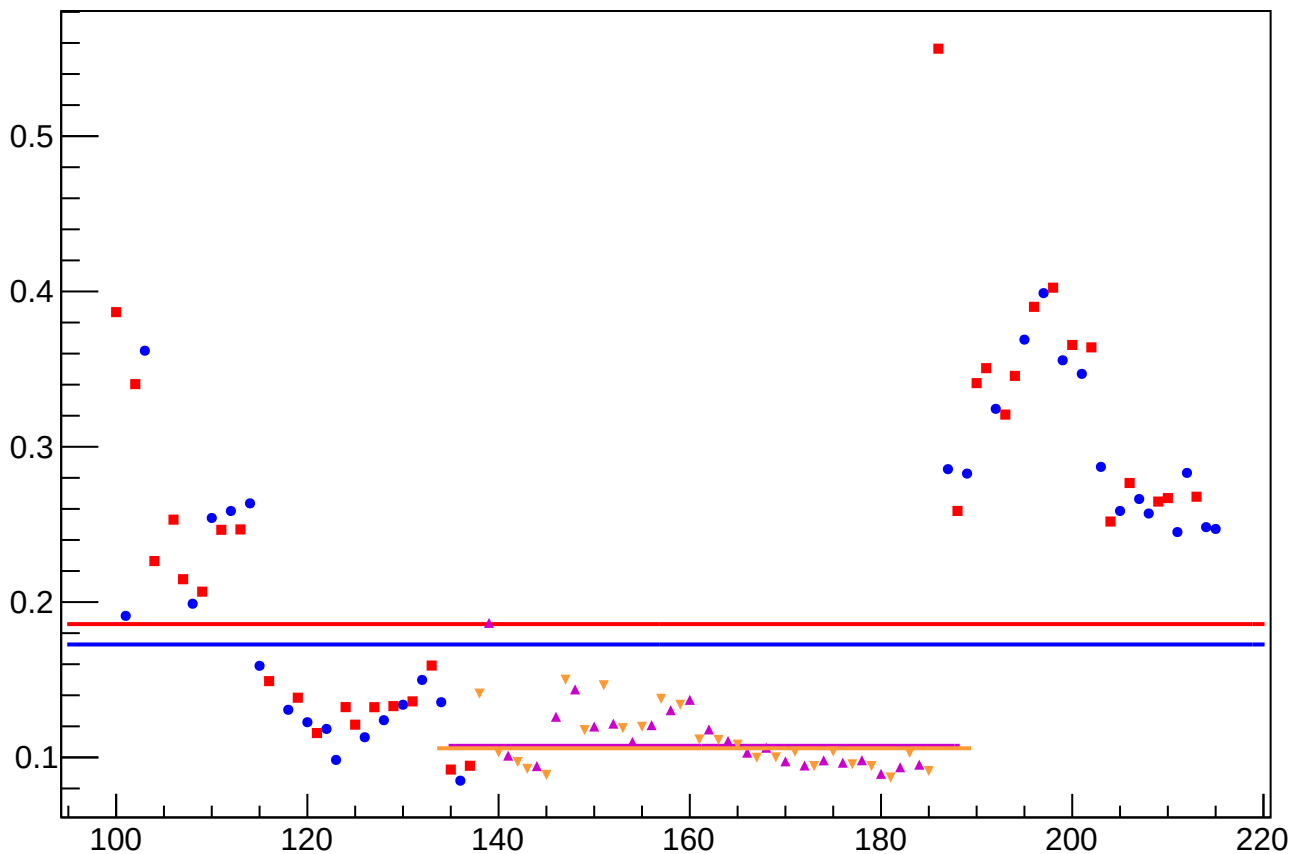
Right: 22.812+/-0.000 χ^2/NDF : 3015717710.1/65

In: 25.636+/-0.000 χ^2/NDF : 8961220155.6/54

Out: 25.545+/-0.000 χ^2/NDF : 10258526175.7/58

All: 25.590+/-0.000 χ^2/NDF : 19227015813.7

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.173+/-0.000 χ^2/NDF : 6423821.3/31

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.186+/-0.000 χ^2/NDF : 6039188.7/33

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

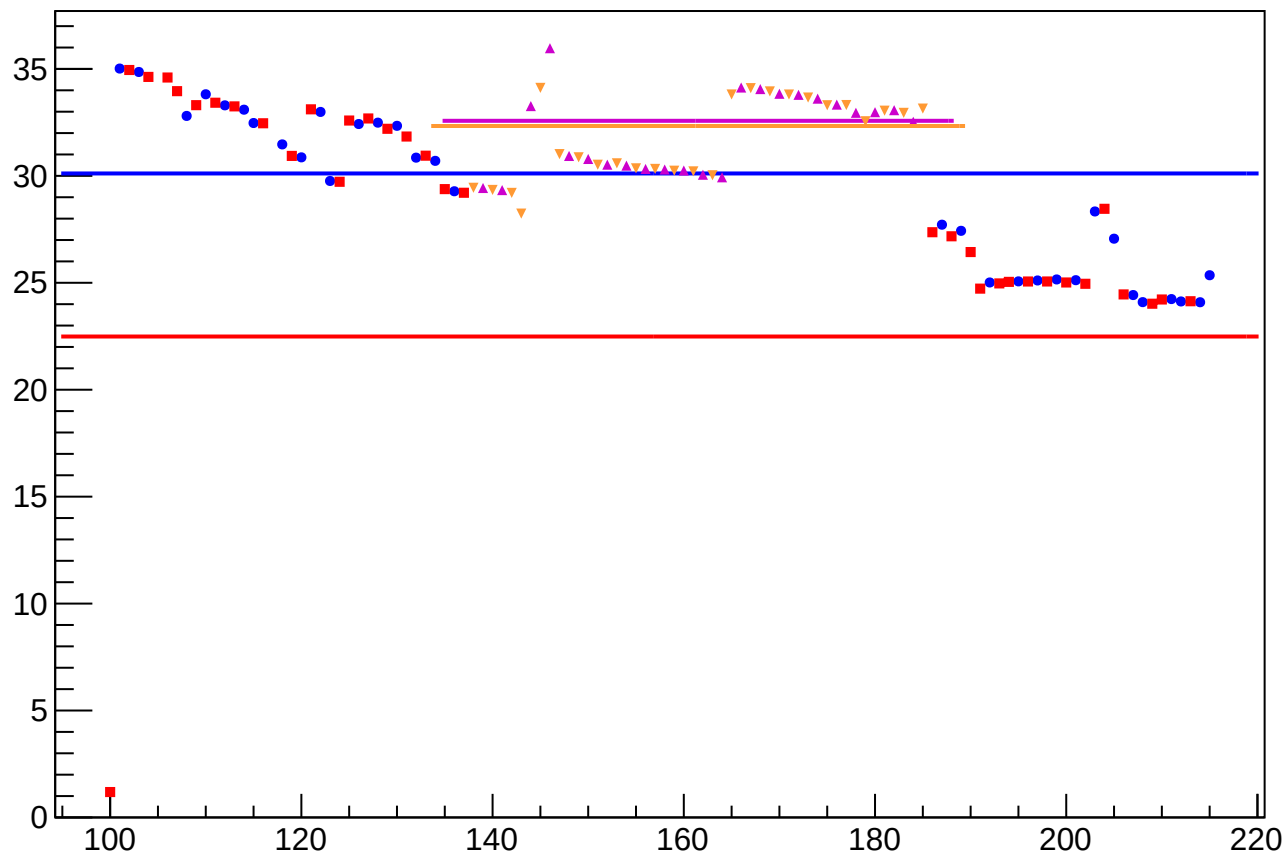
Right: 0.179+/-0.000 χ^2/NDF : 12532742.0/65

In: 0.124+/-0.000 χ^2/NDF : 9962414.1/54

Out: 0.123+/-0.000 χ^2/NDF : 10589671.7/58

All: 0.123+/-0.000 χ^2/NDF : 20553957.7/113

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.112+/-0.000 χ^2/NDF : 10562312150.3/31

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.488+/-0.000 χ^2/NDF : 232274503370.3/33

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

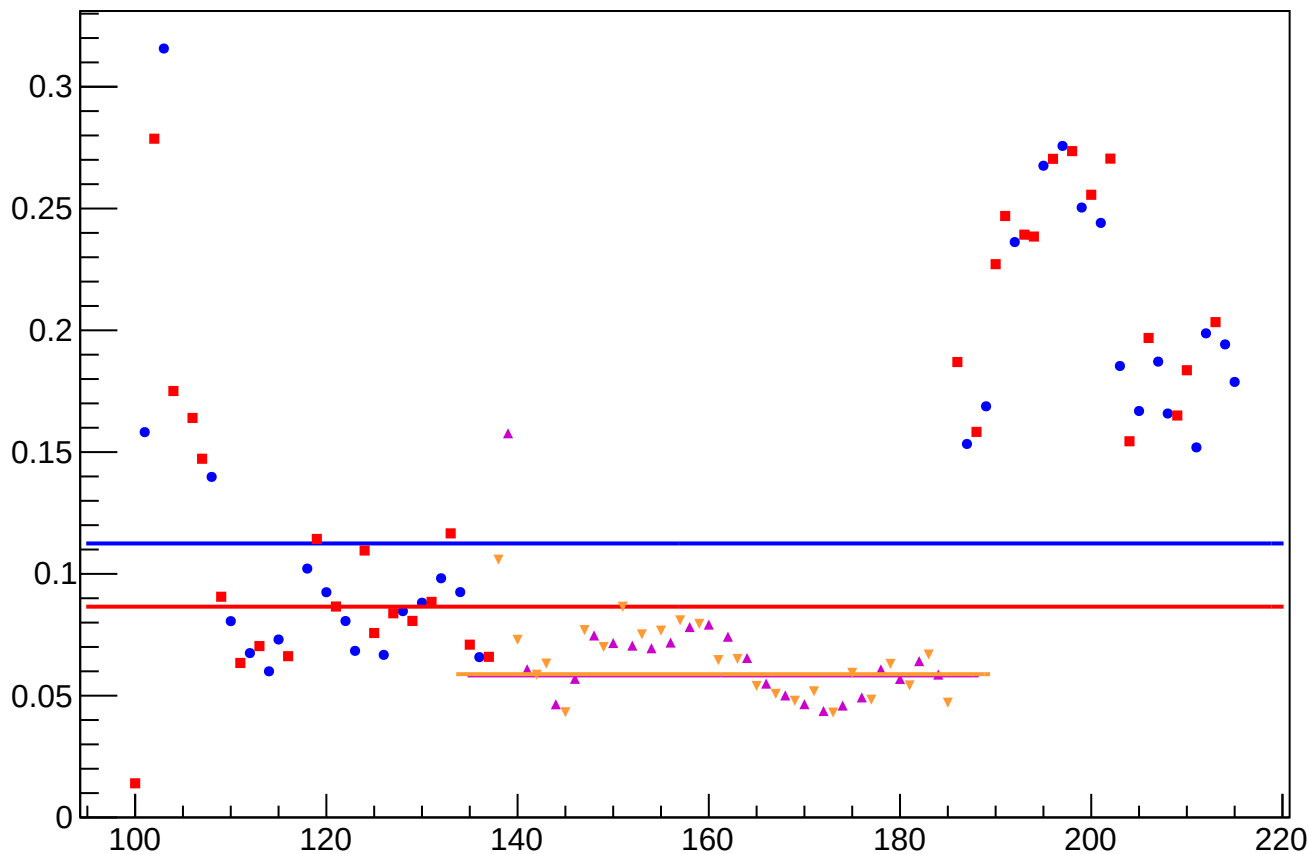
Right: 25.778+/-0.000 χ^2/NDF : 275346758446.7/65

In: 32.080+/-0.000 χ^2/NDF : 27128286614.8/54

Out: 29.965+/-0.000 χ^2/NDF : 340513850274.5/58

All: 30.973+/-0.000 χ^2/NDF : 379127799339.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.112+/-0.000 χ^2/NDF : 6666564.0/31

Left Out: 0.059+/-0.000 χ^2/NDF :1402605.2/24

Right Out: 0.087+/-0.000 χ^2/NDF : 11834529.8/33

Left In: 0.058+/-0.000 χ^2/NDF :1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

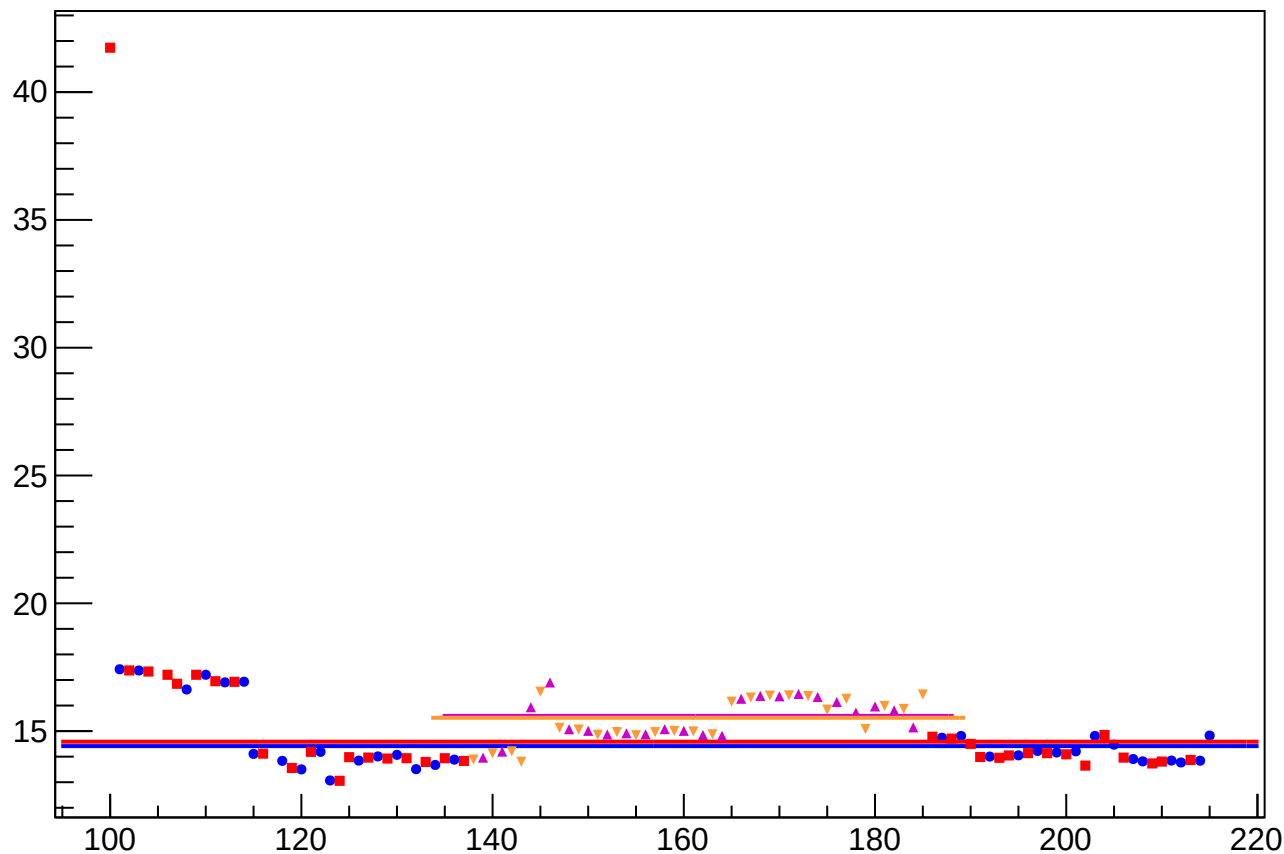
Right: 0.098+/-0.000 χ^2/NDF : 19254372.8/65

In: 0.069+/-0.000 χ^2/NDF :12809456.9/54

Out: 0.065+/-0.000 χ^2/NDF :14749670.4/58

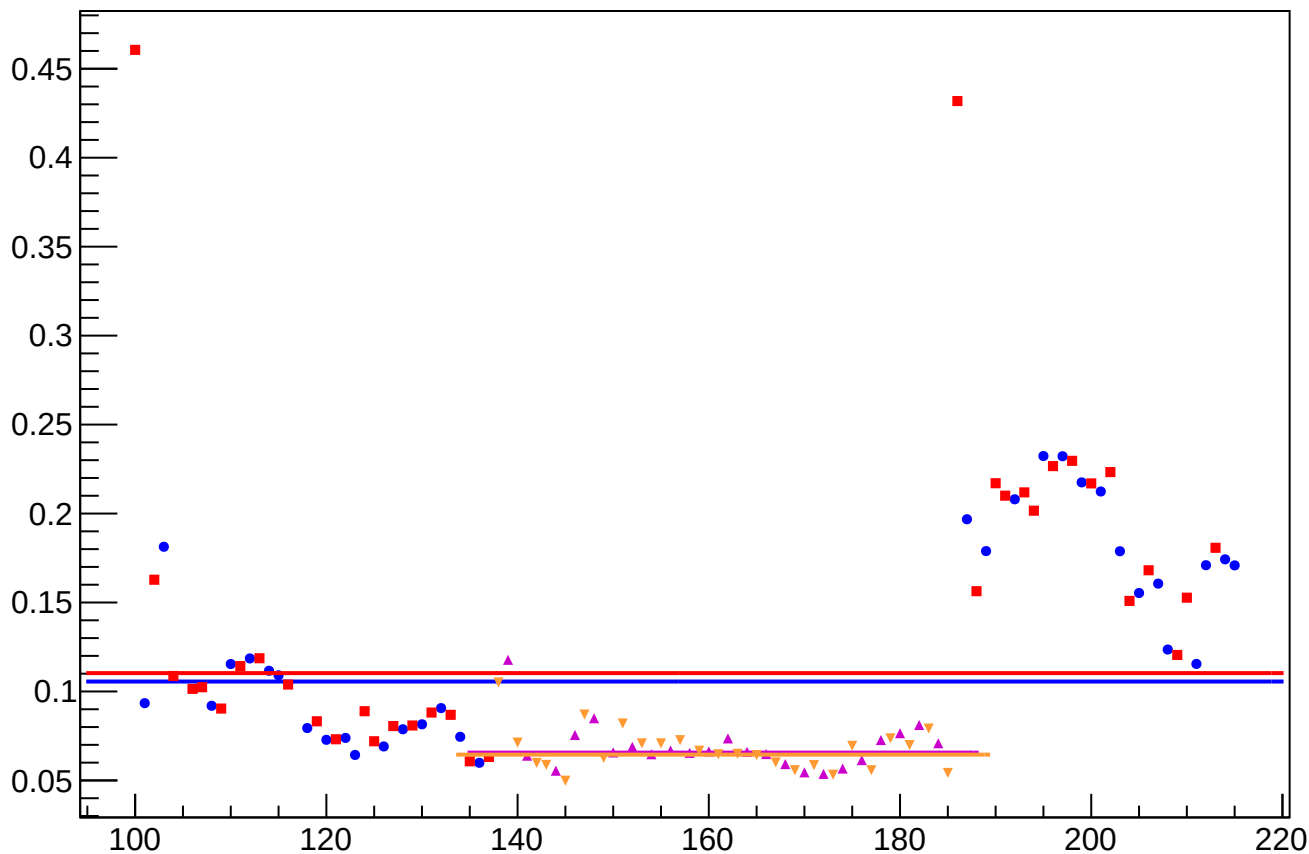
All: 0.067+/-0.000 χ^2/NDF : 27629291.5/113

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.412+/-0.000	χ^2/NDF : 1570781811.0/31	Left: 15.557+/-0.000	χ^2/NDF : 4510008259.4/47
Left Out: 15.521+/-0.000	χ^2/NDF : 2591377740.5/24	Right: 14.495+/-0.000	χ^2/NDF : 3626627390.1/65
Right Out: 14.585+/-0.000	χ^2/NDF : 2038592431.9/33	In: 15.288+/-0.000	χ^2/NDF : 4731181072.0/54
Left In: 15.595+/-0.000	χ^2/NDF : 1908733580.5/22	Out: 15.308+/-0.000	χ^2/NDF : 5376034367.1/58
		All: 15.298+/-0.000	χ^2/NDF : 10108248682.5

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.000 χ^2 /NDF: 5542777.0/31

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 5332241.4/33

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

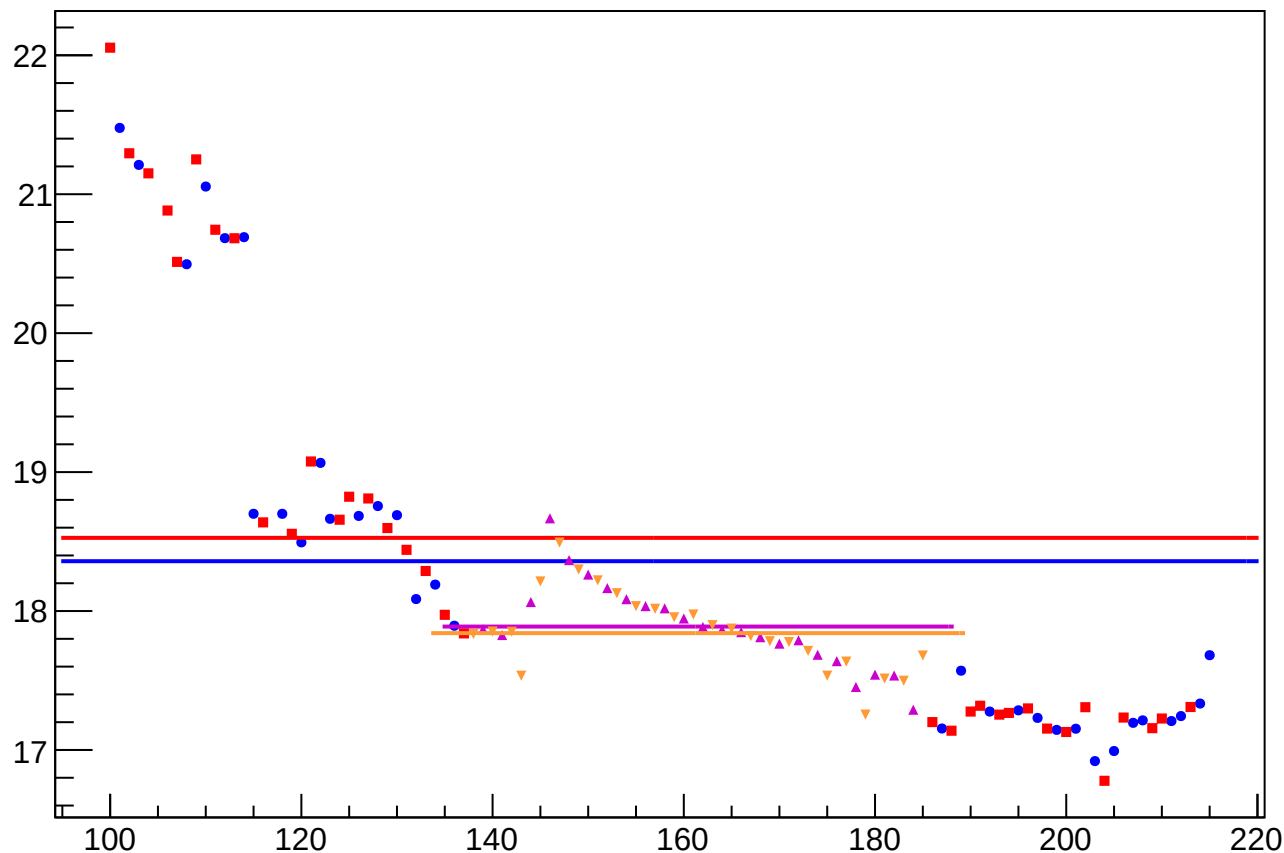
Right: 0.108 $\pm$ 0.000 χ^2 /NDF: 10900908.6/65

In: 0.076 $\pm$ 0.000 χ^2 /NDF: 9111177.5/54

Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 9673219.7/58

All: 0.075 $\pm$ 0.000 χ^2 /NDF: 18790444.9/113

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.359 $\pm$ 0.000 χ^2 /NDF: 32428001734.0/31

Left Out: 17.841 $\pm$ 0.000 χ^2 /NDF: 1283287989.7/24

Right Out: 18.527 $\pm$ 0.000 χ^2 /NDF: 34195733248.9/33

Left In: 17.888 $\pm$ 0.000 χ^2 /NDF: 1203002311.3/22

Left: 17.864 $\pm$ 0.000 χ^2 /NDF: 2506375288.6/47

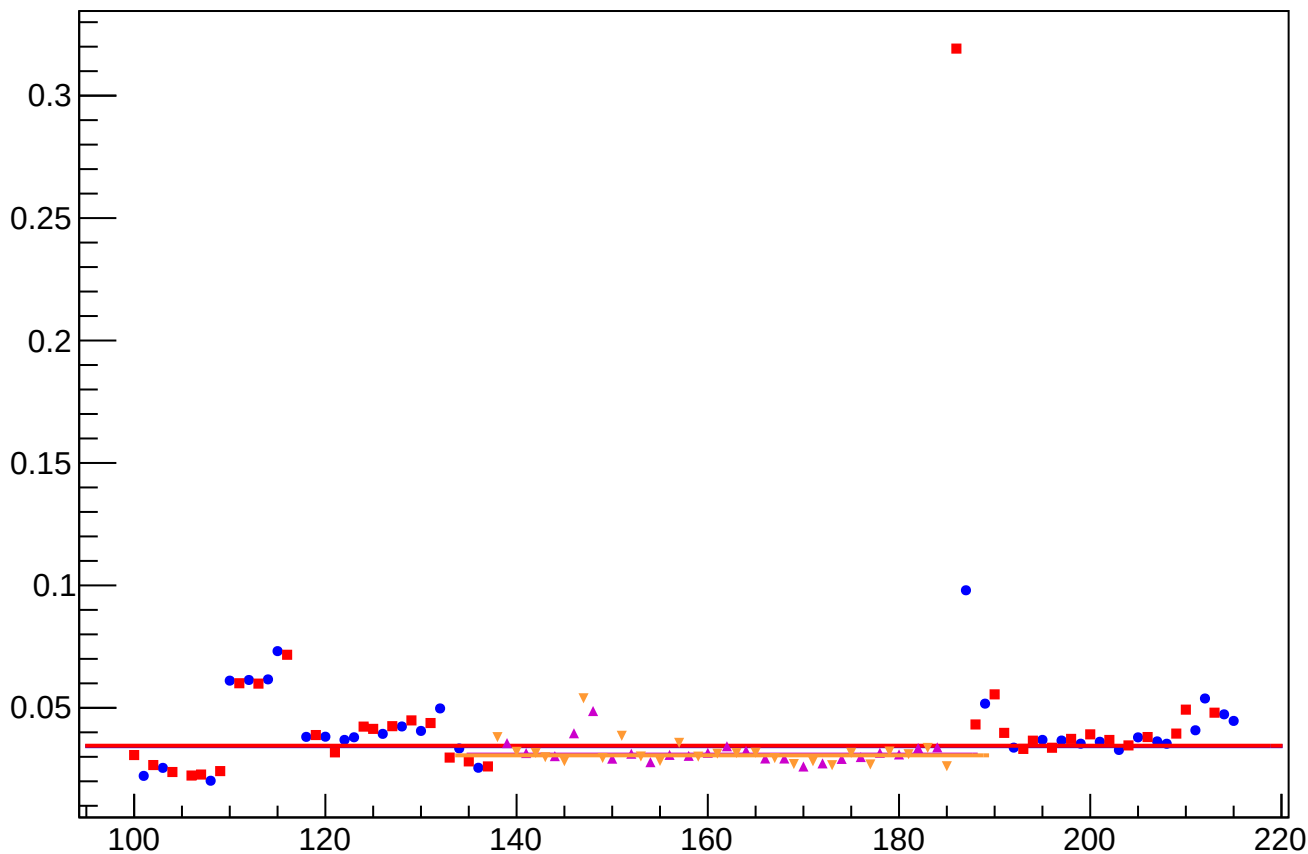
Right: 18.441 $\pm$ 0.000 χ^2 /NDF: 66805091241.0/65

In: 18.090 $\pm$ 0.000 χ^2 /NDF: 35281306038.2/54

Out: 18.118 $\pm$ 0.000 χ^2 /NDF: 39018475107.6/58

All: 18.104 $\pm$ 0.000 χ^2 /NDF: 74311545692.8

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 2185016.3/31

Left Out: 0.031+/-0.000 χ^2/NDF :590475.6/24

Right Out: 0.035+/-0.000 χ^2/NDF : 2431955.5/33

Left In: 0.031+/-0.000 χ^2/NDF :453524.6/22

Left: 0.031+/-0.000 χ^2/NDF : 1045553.8/47

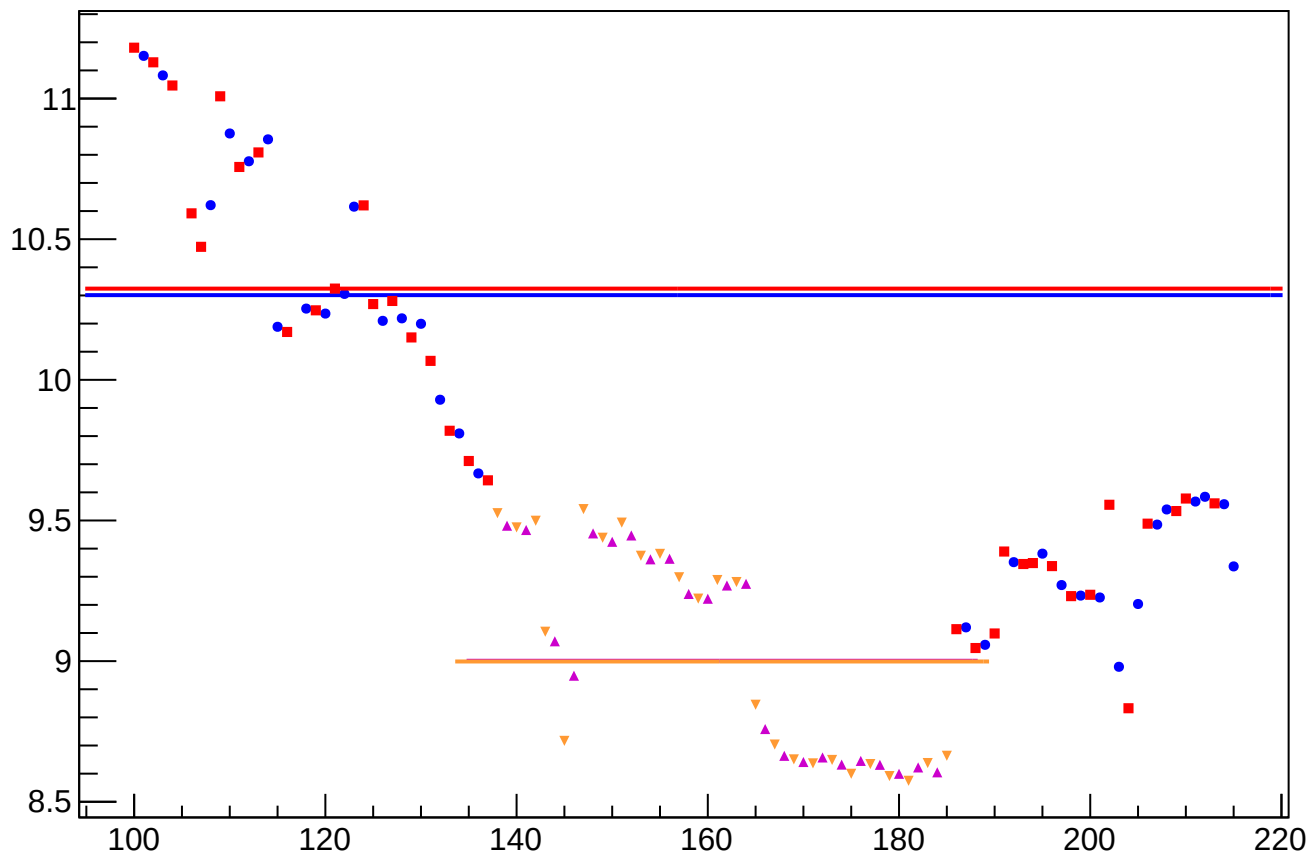
Right: 0.034+/-0.000 χ^2/NDF : 4617404.5/65

In: 0.032+/-0.000 χ^2/NDF :2815496.2/54

Out: 0.032+/-0.000 χ^2/NDF :3253986.8/58

All: 0.032+/-0.000 χ^2/NDF : 6070589.9/113

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.301+/-0.000 χ^2/NDF : 16585449939.9/31

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.324+/-0.000 χ^2/NDF : 13995871997.3/33

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

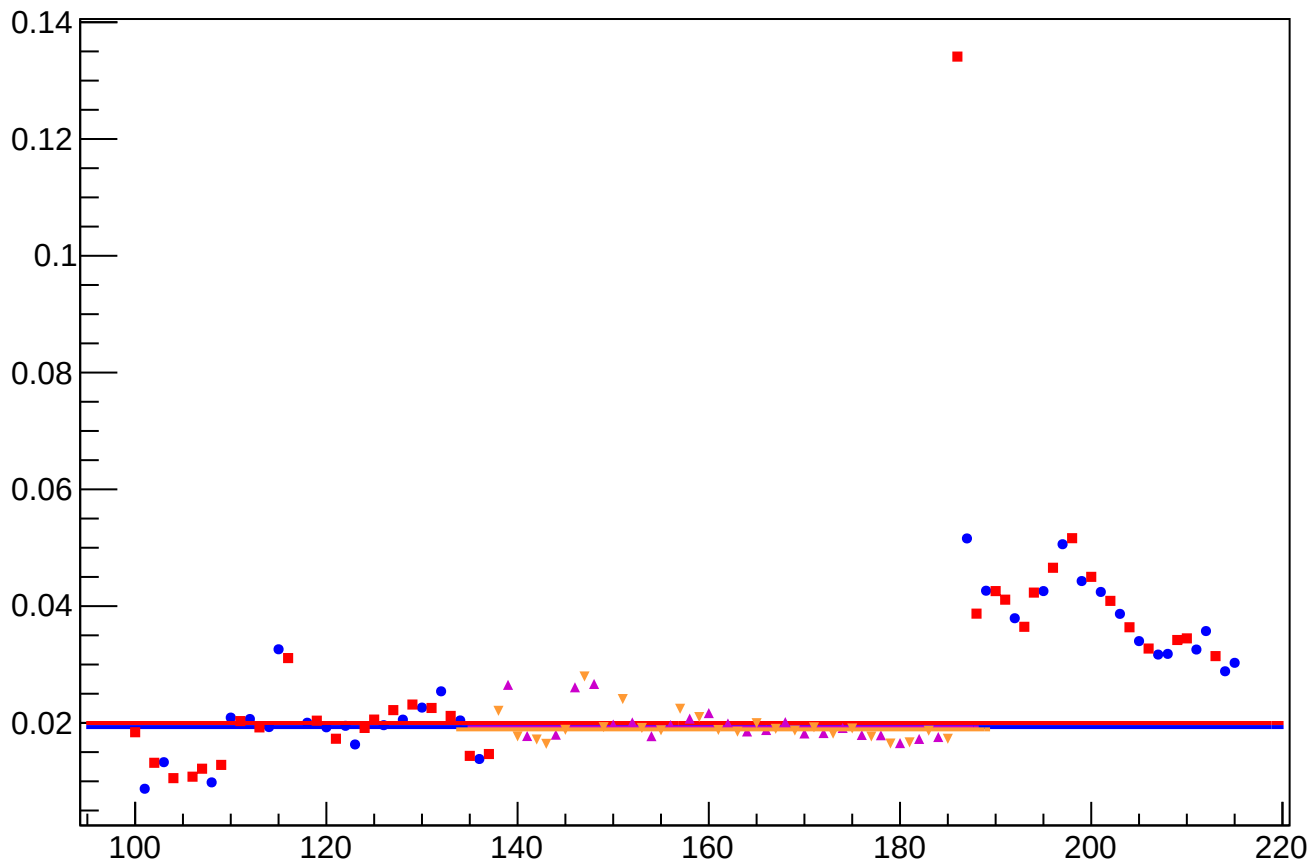
Right: 10.312+/-0.000 χ^2/NDF : 30590108722.2/65

In: 9.576+/-0.000 χ^2/NDF : 53869408369.2/54

Out: 9.533+/-0.000 χ^2/NDF : 53673036600.1/58

All: 9.554+/-0.000 χ^2/NDF : 107612796304.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 7520458.7/31

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7202105.1/33

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

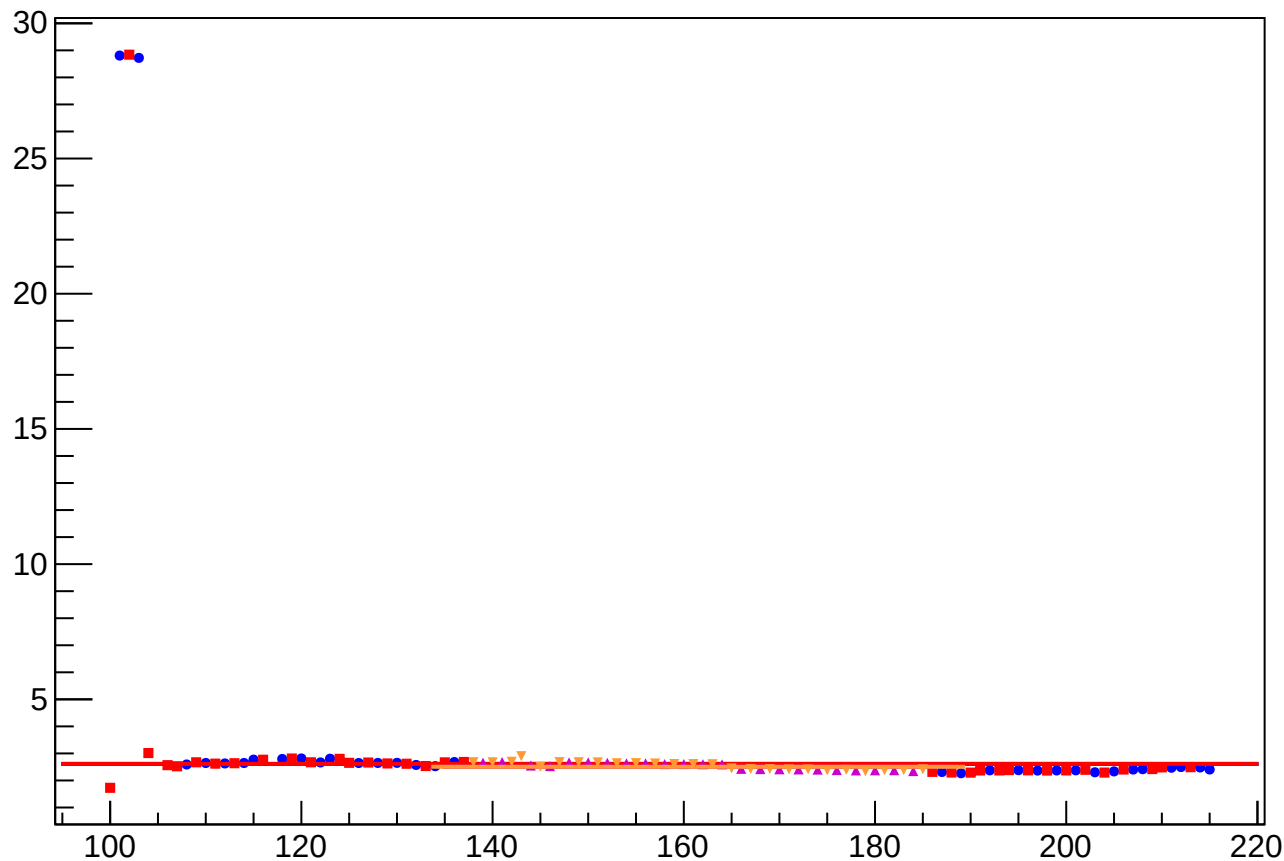
Right: 0.020+/-0.000 χ^2/NDF : 14738542.0/65

In: 0.019+/-0.000 χ^2/NDF : 8002429.3/54

Out: 0.019+/-0.000 χ^2/NDF : 7675112.5/58

All: 0.019+/-0.000 χ^2/NDF : 15678084.6/113

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.612 $\pm$ 0.000 χ^2 /NDF: 183257700508.2/31

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.613 $\pm$ 0.000 χ^2 /NDF: 90696072608.1/33

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

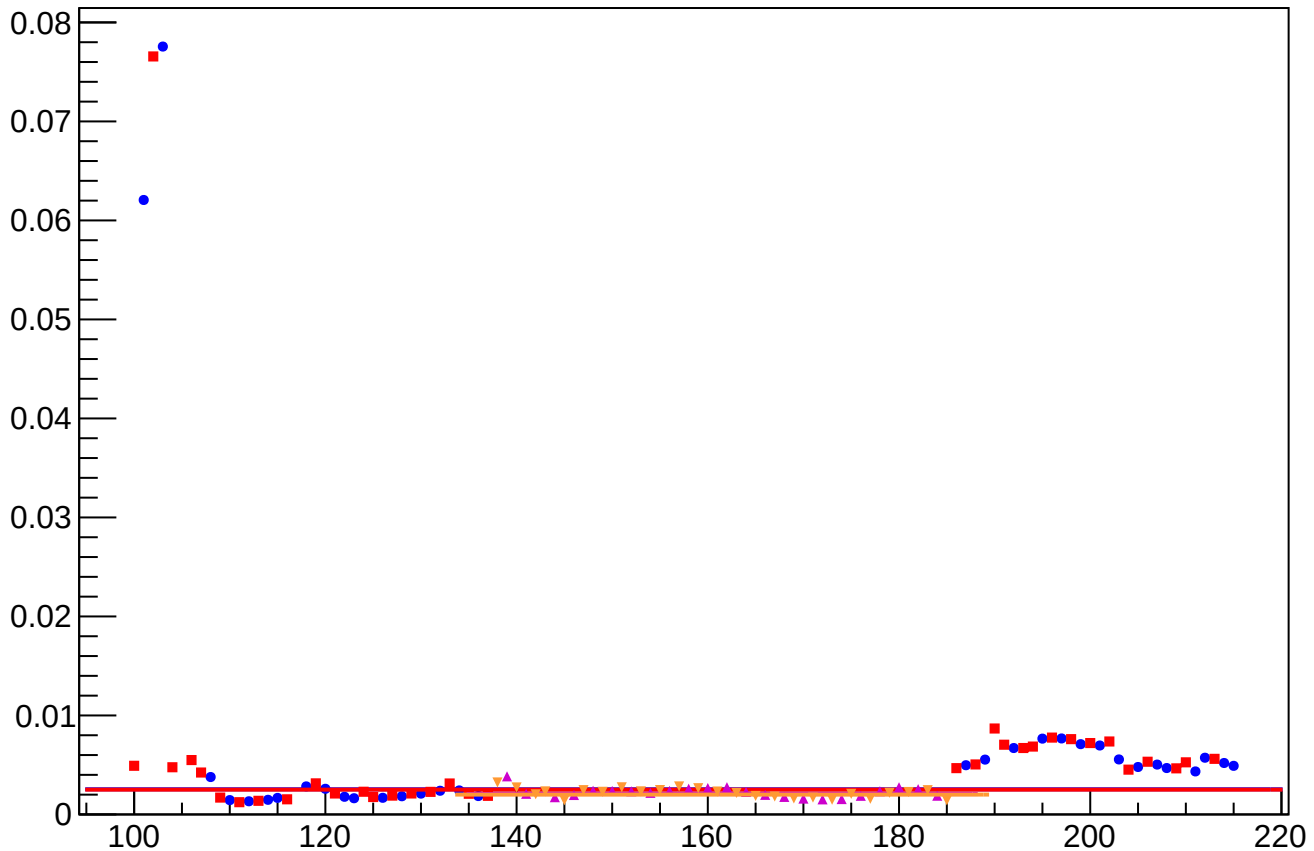
Right: 2.612 $\pm$ 0.000 χ^2 /NDF: 273955831772.7/65

In: 2.541 $\pm$ 0.000 χ^2 /NDF: 238686230072.3/54

Out: 2.540 $\pm$ 0.000 χ^2 /NDF: 168104740790.7/58

All: 2.541 $\pm$ 0.000 χ^2 /NDF: 406792112200.4

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 10550851.7/31

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10307160.1/33

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

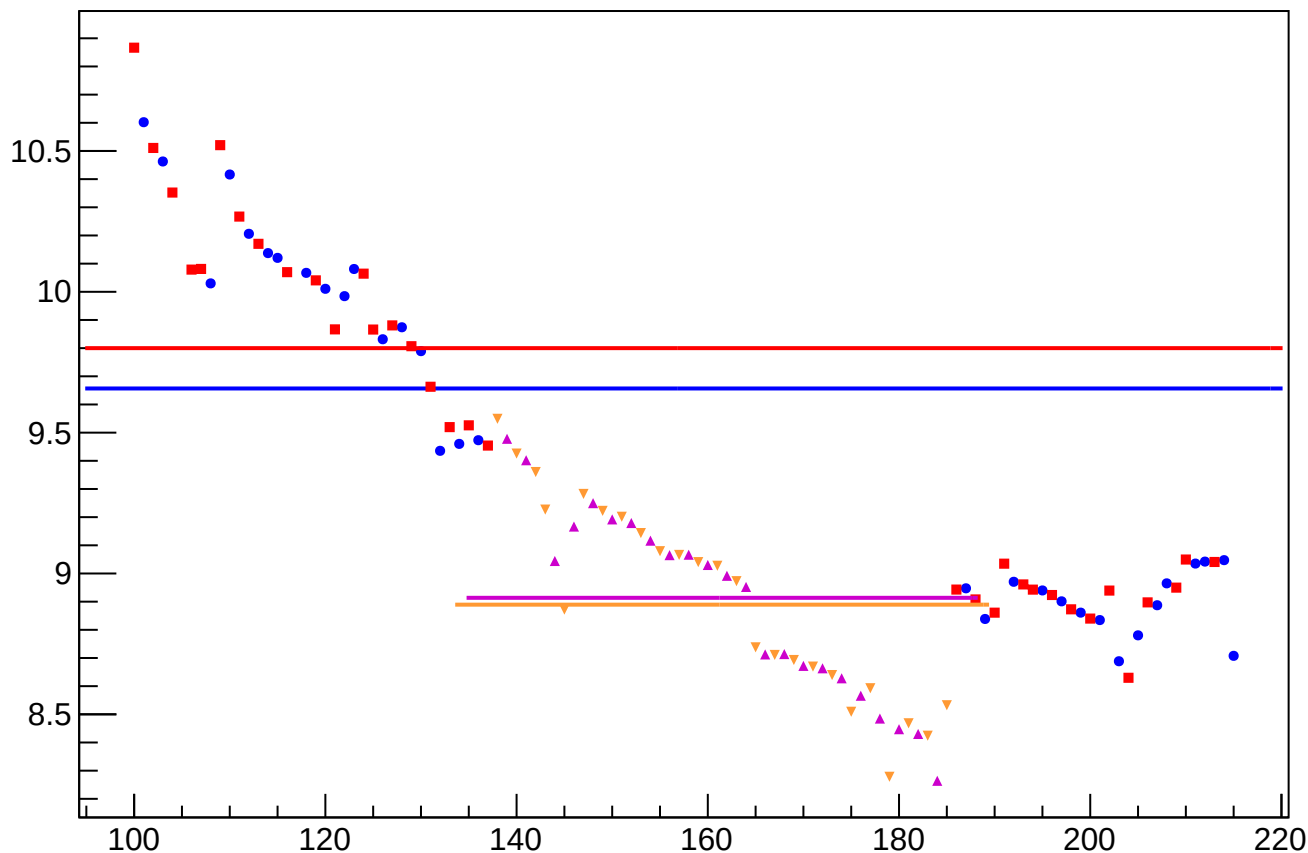
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 20860182.0/65

In: 0.002 $\pm$ 0.000 χ^2 /NDF:12371807.5/54

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:12353585.9/58

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 24741904.7/113

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.657 $\pm$ 0.000

χ^2/NDF : 85058672175.4/31

Left: 8.901 $\pm$ 0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889 $\pm$ 0.000

χ^2/NDF : 34704694045.9/24

Right: 9.727 $\pm$ 0.000

χ^2/NDF : 165114940714.3/65

Right Out: 9.800 $\pm$ 0.000

χ^2/NDF : 77424660555.8/33

In: 9.232 $\pm$ 0.000

χ^2/NDF : 196025069901.1/54

Out: 9.240 $\pm$ 0.000

χ^2/NDF : 240689724672.3/58

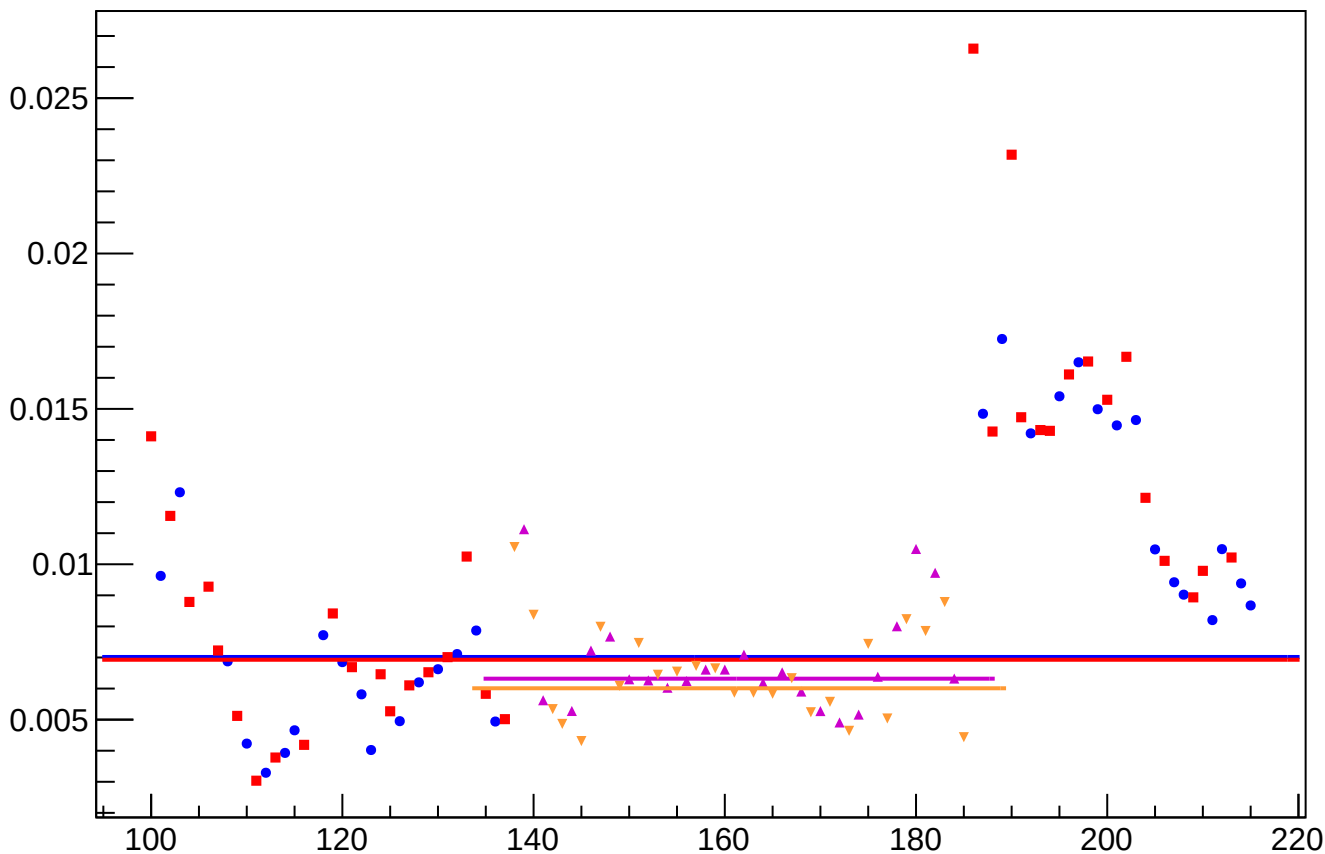
Left In: 8.914 $\pm$ 0.000

χ^2/NDF : 28497227562.7/22

All: 9.236 $\pm$ 0.000

χ^2/NDF : 436732977996.5

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6093376.6/31

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7550874.3/33

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

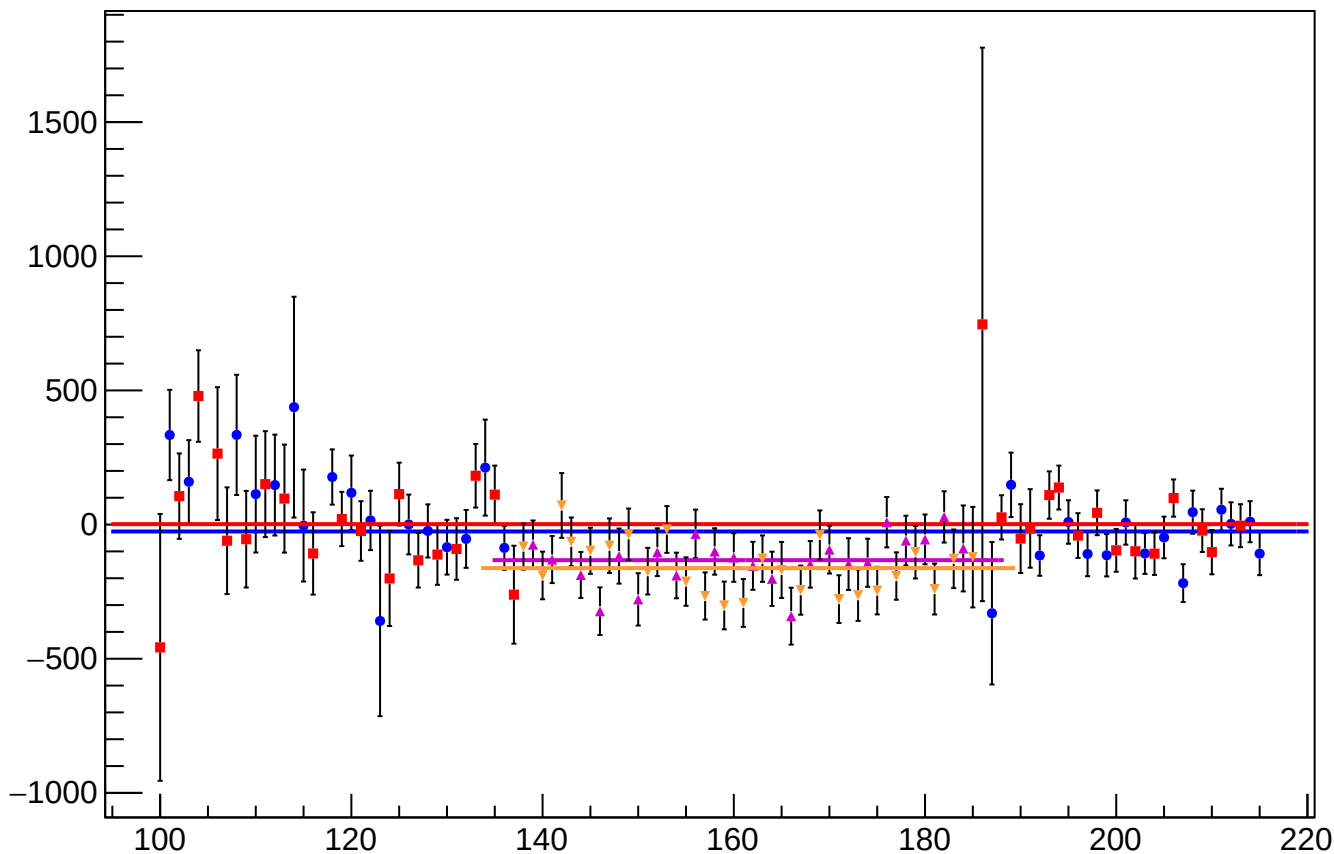
Right: 0.007+/-0.000 χ^2/NDF : 13646289.7/65

In: 0.007+/-0.000 χ^2/NDF :7326048.6/54

Out: 0.006+/-0.000 χ^2/NDF :9124749.0/58

All: 0.006+/-0.000 χ^2/NDF : 16491830.2/113

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -25.669 ± 17.787 χ^2/NDF : 39.3/31

Left Out: -162.161 ± 18.745 χ^2/NDF : 25.7/24

Right Out: 1.668 ± 18.673 χ^2/NDF : 36.6/33

Left In: -132.557 ± 19.403 χ^2/NDF : 20.7/22

Left: -147.870 ± 13.481 χ^2/NDF : 47.6/47

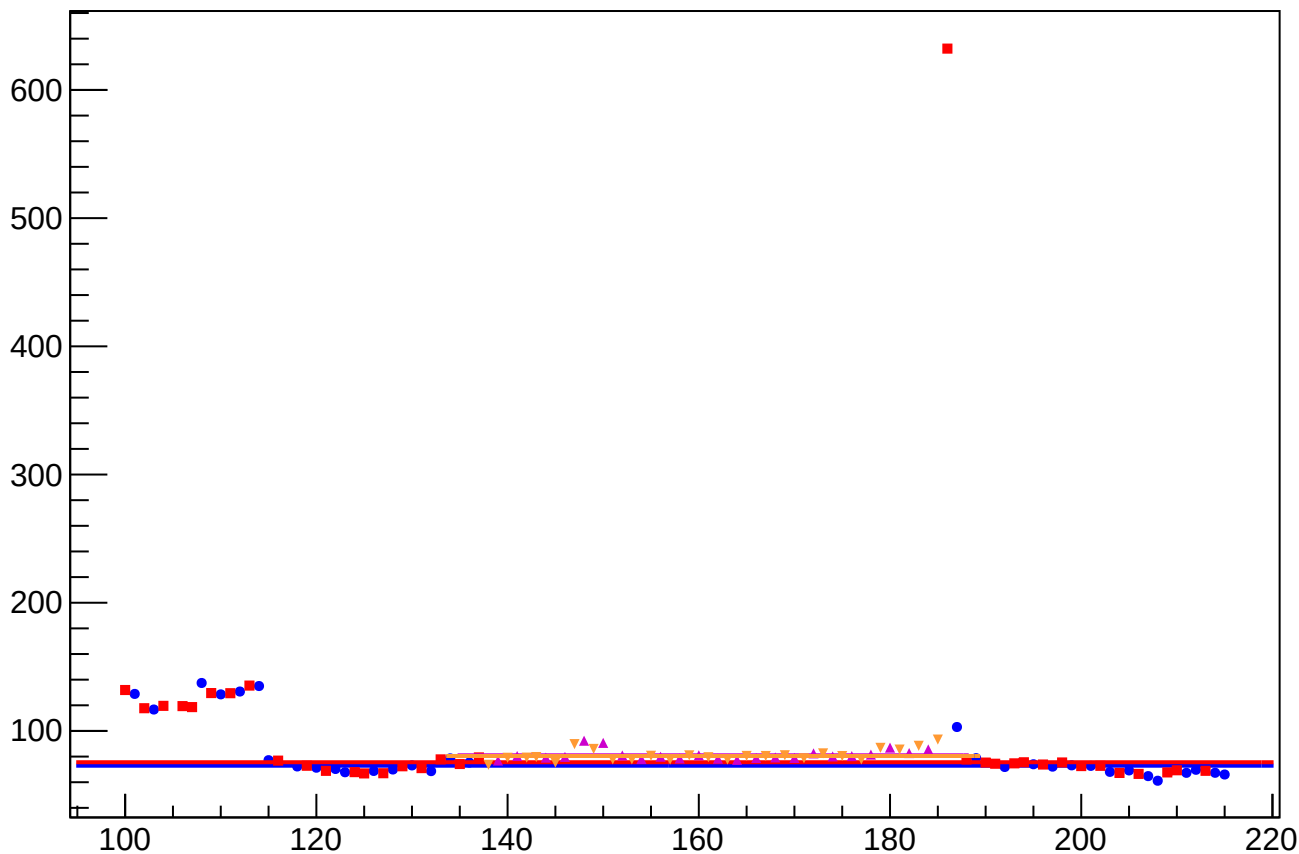
Right: -12.664 ± 12.879 χ^2/NDF : 77.0/65

In: -74.478 ± 13.112 χ^2/NDF : 76.6/54

Out: -79.934 ± 13.229 χ^2/NDF : 100.6/58

All: -77.181 ± 9.313 χ^2/NDF : 177.3/113

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 72.882 $\pm$ 0.013 χ^2 /NDF: 1078429.3/31

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 75.590 $\pm$ 0.013 χ^2 /NDF: 1695994.5/33

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

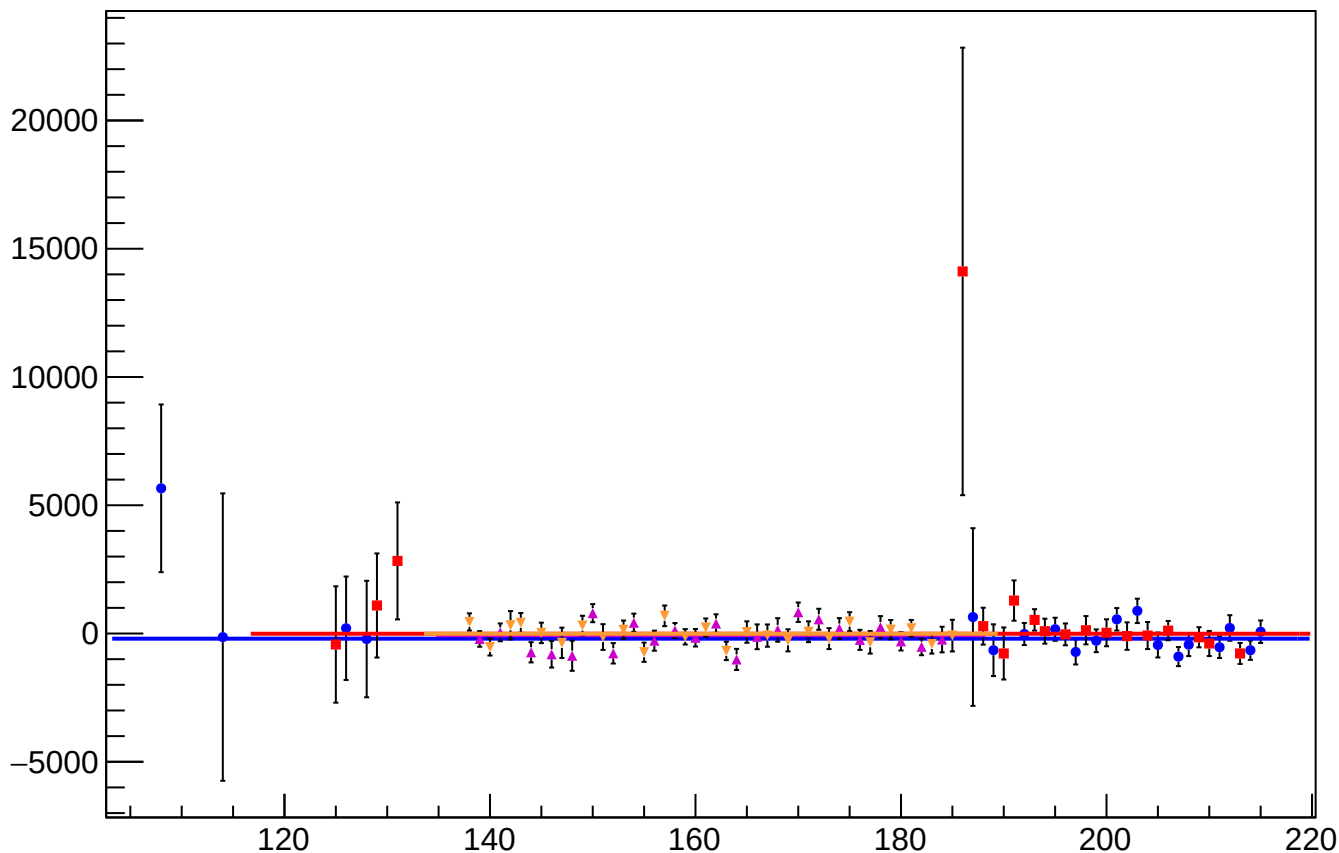
Right: 74.170 $\pm$ 0.009 χ^2 /NDF: 2796483.8/65

In: 76.595 $\pm$ 0.009 χ^2 /NDF: 1341570.9/54

Out: 78.015 $\pm$ 0.009 χ^2 /NDF: 1853654.5/58

All: 77.299 $\pm$ 0.007 χ^2 /NDF: 3206850.3/113

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -200.977+/-120.171 χ^2 /NDF: 20.9/18

Left Out: -10.486+/-78.391 χ^2 /NDF:22.5/24

Right Out: -8.494+/-130.872 χ^2 /NDF: 14.2/17

Left In: -64.591+/-80.047 χ^2 /NDF:37.4/22

Left: -36.973+/-56.007 χ^2 /NDF: 60.2/47

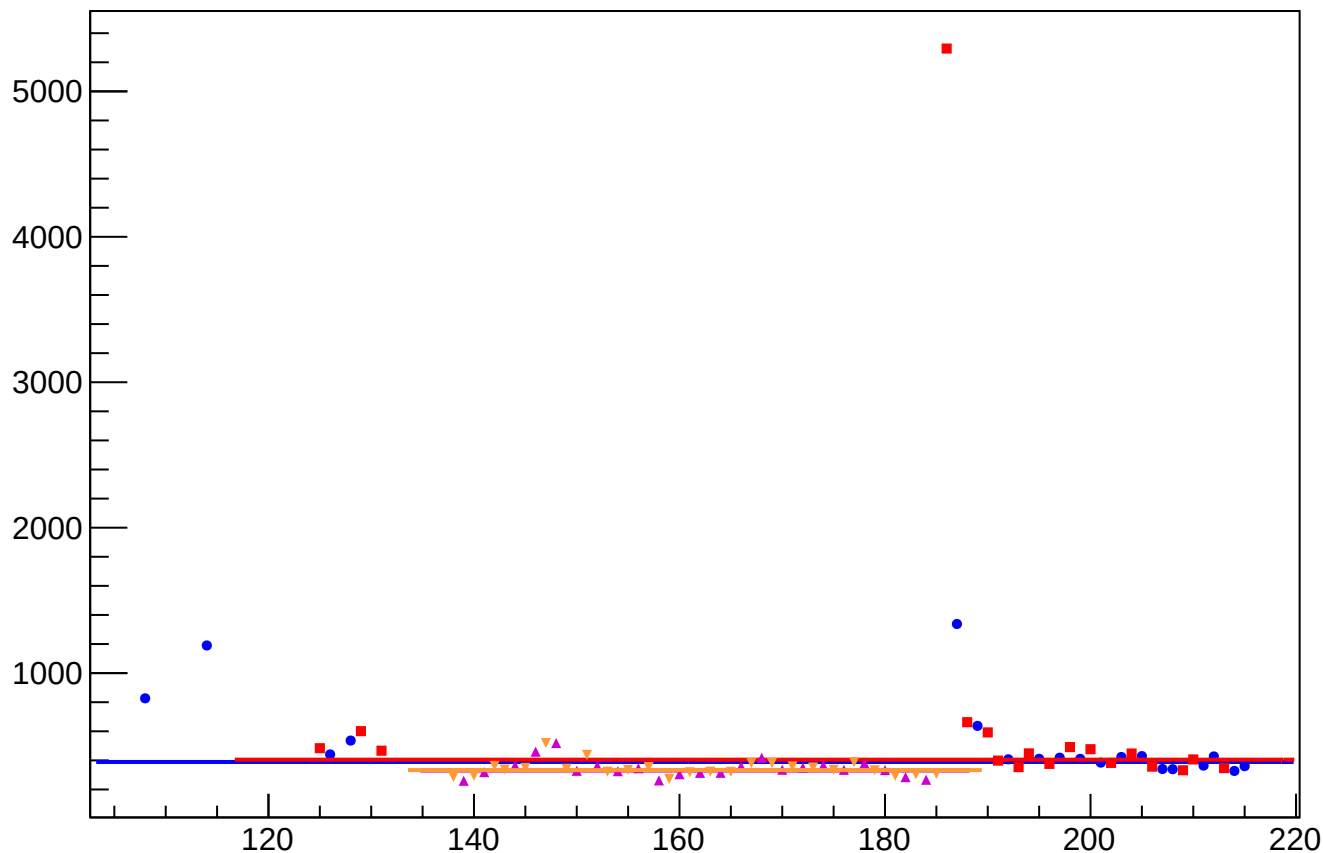
Right: -112.925+/-88.515 χ^2 /NDF: 36.2/36

In: -106.507+/-66.620 χ^2 /NDF:59.2/41

Out: -9.960+/-67.250 χ^2 /NDF:36.7/42

All: -58.688+/-47.328 χ^2 /NDF: 96.9/84

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 389.068+/-0.085 χ^2/NDF : 541911.0/18

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 405.051+/-0.093 χ^2/NDF : 1276432.4/17

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

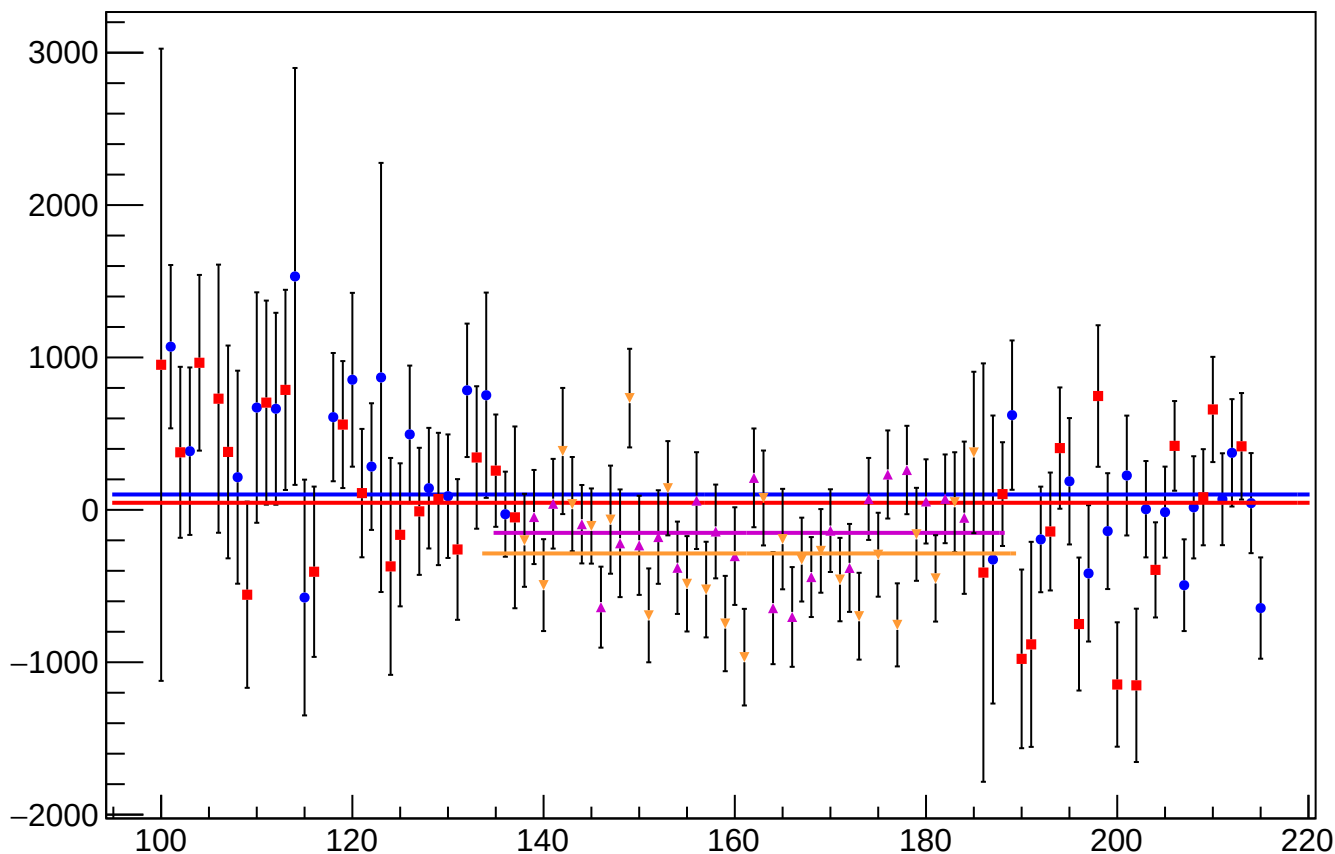
Right: 396.380+/-0.063 χ^2/NDF : 1834526.0/36

In: 348.144+/-0.047 χ^2/NDF : 1672753.2/41

Out: 352.197+/-0.048 χ^2/NDF : 2311803.0/42

All: 350.151+/-0.033 χ^2/NDF : 3988222.6/84

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 100.900 $\pm$ 73.657 χ^2/NDF : 28.7/31

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF : 36.6/24

Right Out: 46.389 $\pm$ 78.050 χ^2/NDF : 44.9/33

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

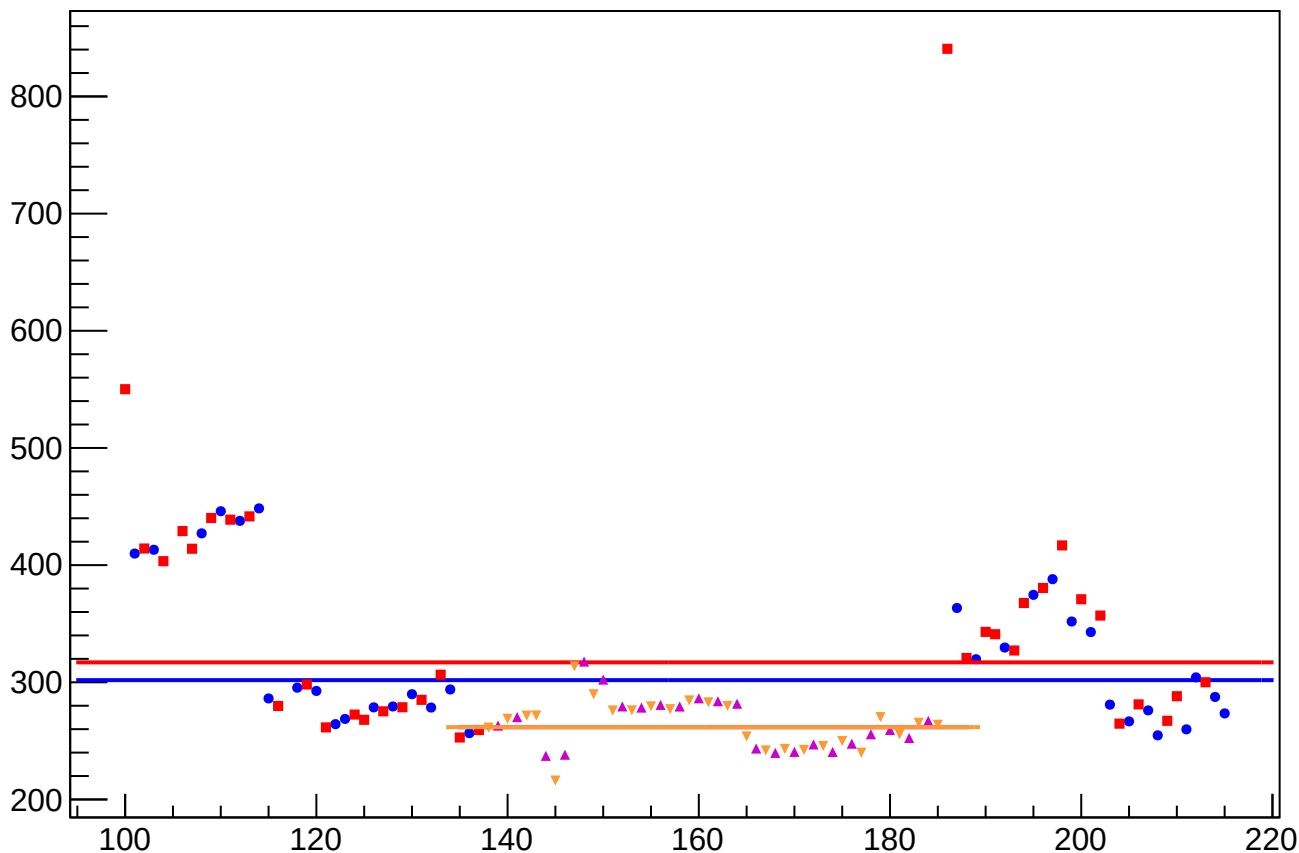
Right: 75.222 $\pm$ 53.569 χ^2/NDF : 73.9/65

In: -44.884 $\pm$ 47.796 χ^2/NDF : 54.1/54

Out: -159.735 $\pm$ 48.109 χ^2/NDF : 92.7/58

All: -101.935 $\pm$ 33.907 χ^2/NDF : 149.7/113

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 301.837 $\pm$ 0.052 χ^2 /NDF: 872125.8/31

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF: 233222.6/24

Right Out: 317.005 $\pm$ 0.055 χ^2 /NDF: 1291888.0/33

Left In: 261.637 $\pm$ 0.044 χ^2 /NDF: 228241.3/22

Left: 261.680 $\pm$ 0.031 χ^2 /NDF: 461465.7/47

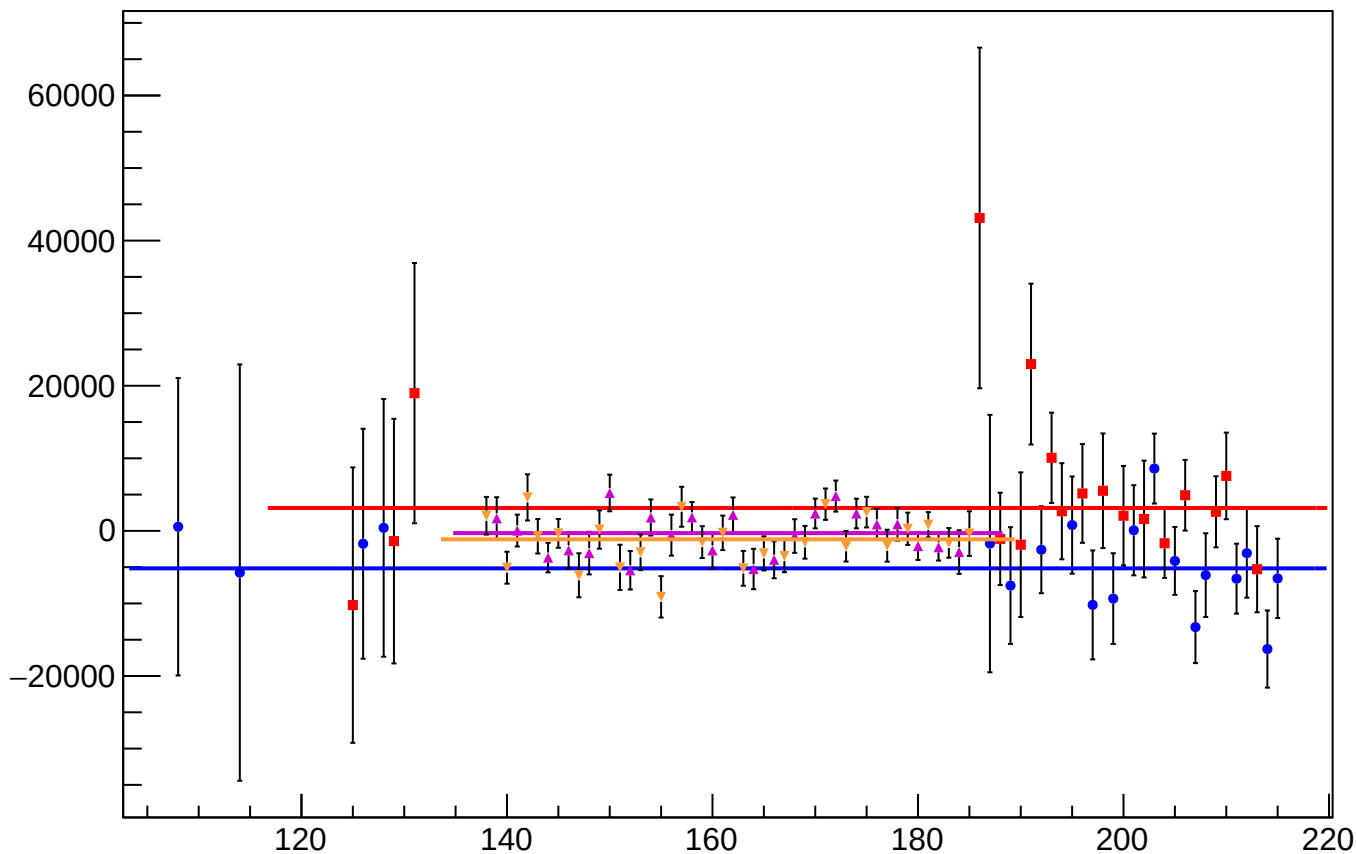
Right: 308.982 $\pm$ 0.038 χ^2 /NDF: 2203964.9/65

In: 278.564 $\pm$ 0.034 χ^2 /NDF: 1445263.4/54

Out: 282.725 $\pm$ 0.034 χ^2 /NDF: 2147283.4/58

All: 280.631 $\pm$ 0.024 χ^2 /NDF: 3600077.0/113

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5164.167+/-1496.132 χ^2/NDF : 18.5/18

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 3157.362+/-1663.635 χ^2/NDF : 13.4/17

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

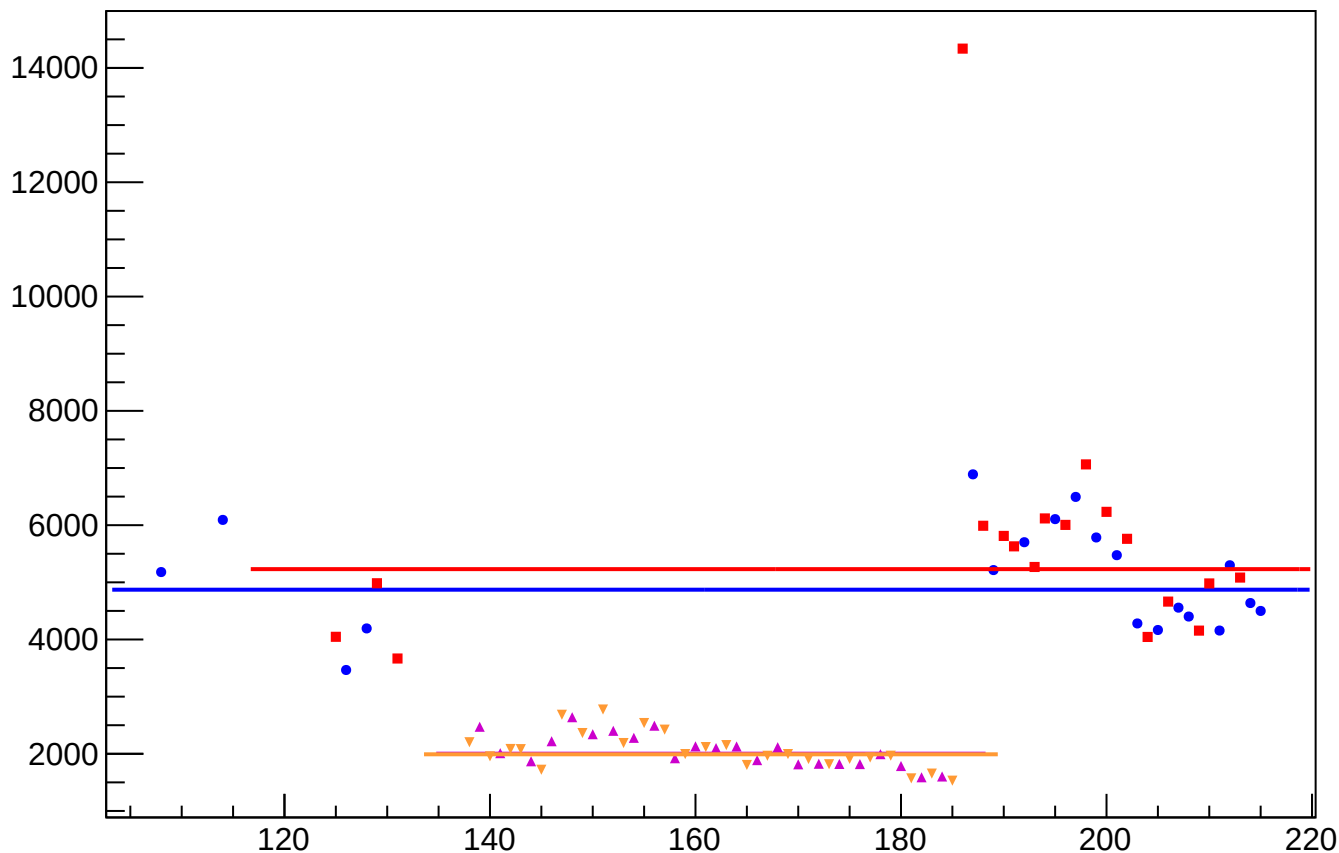
Right: -1443.301+/-1112.445 χ^2/NDF : 45.7/36

In: -764.393+/-460.312 χ^2/NDF : 63.4/41

Out: -843.431+/-451.438 χ^2/NDF : 58.4/42

All: -804.681+/-322.306 χ^2/NDF : 121.8/84

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4871.195+/-1.058 χ^2/NDF : 477311.9/18

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5231.026+/-1.176 χ^2/NDF : 835433.4/17

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

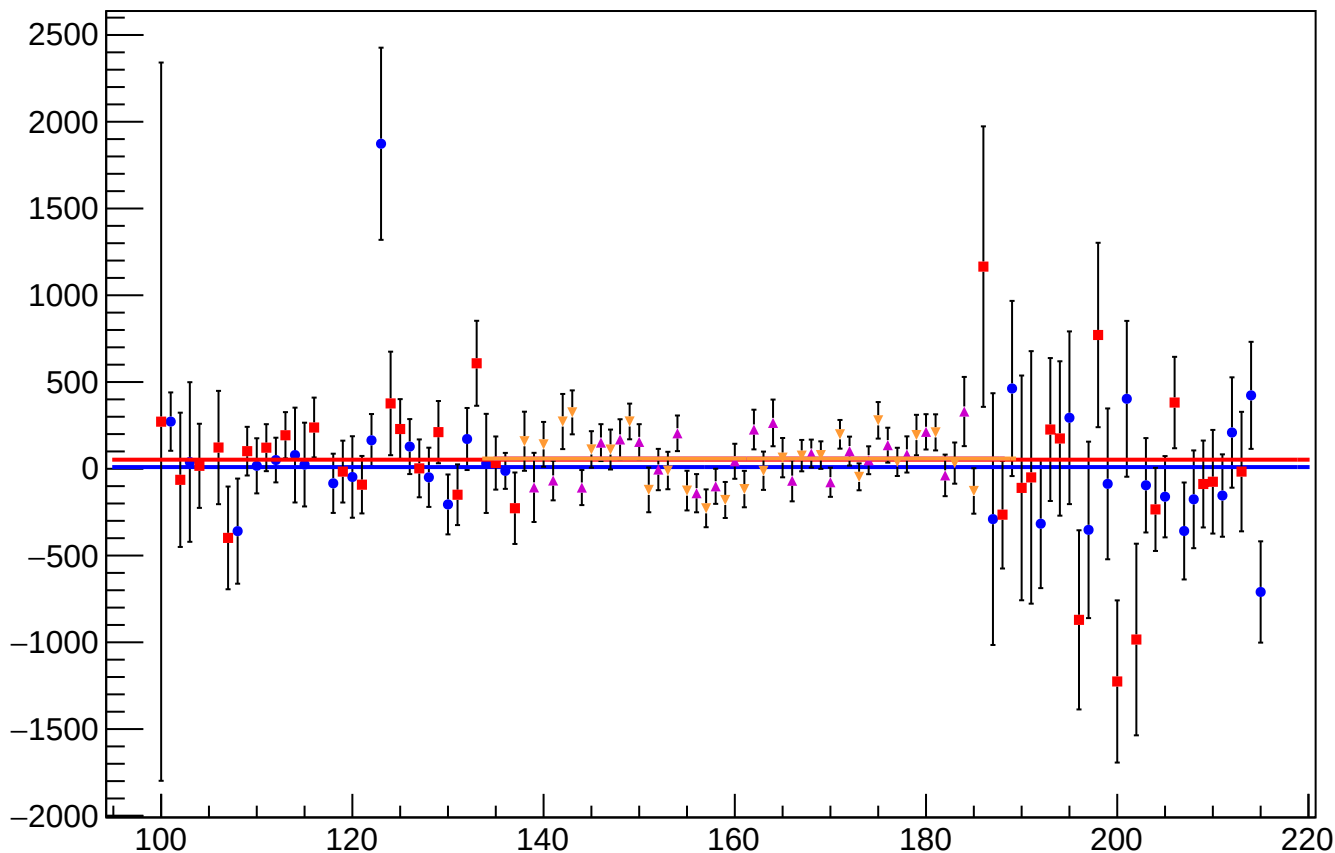
Right: 5032.089+/-0.787 χ^2/NDF : 1364473.9/36

In: 2273.736+/-0.325 χ^2/NDF : 7721748.2/41

Out: 2229.674+/-0.319 χ^2/NDF : 8588671.4/42

All: 2251.276+/-0.228 χ^2/NDF : 16319760.9/8

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 9.827 ± 38.821 χ^2/NDF : 34.9/31

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 52.460 ± 39.367 χ^2/NDF : 40.3/33

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

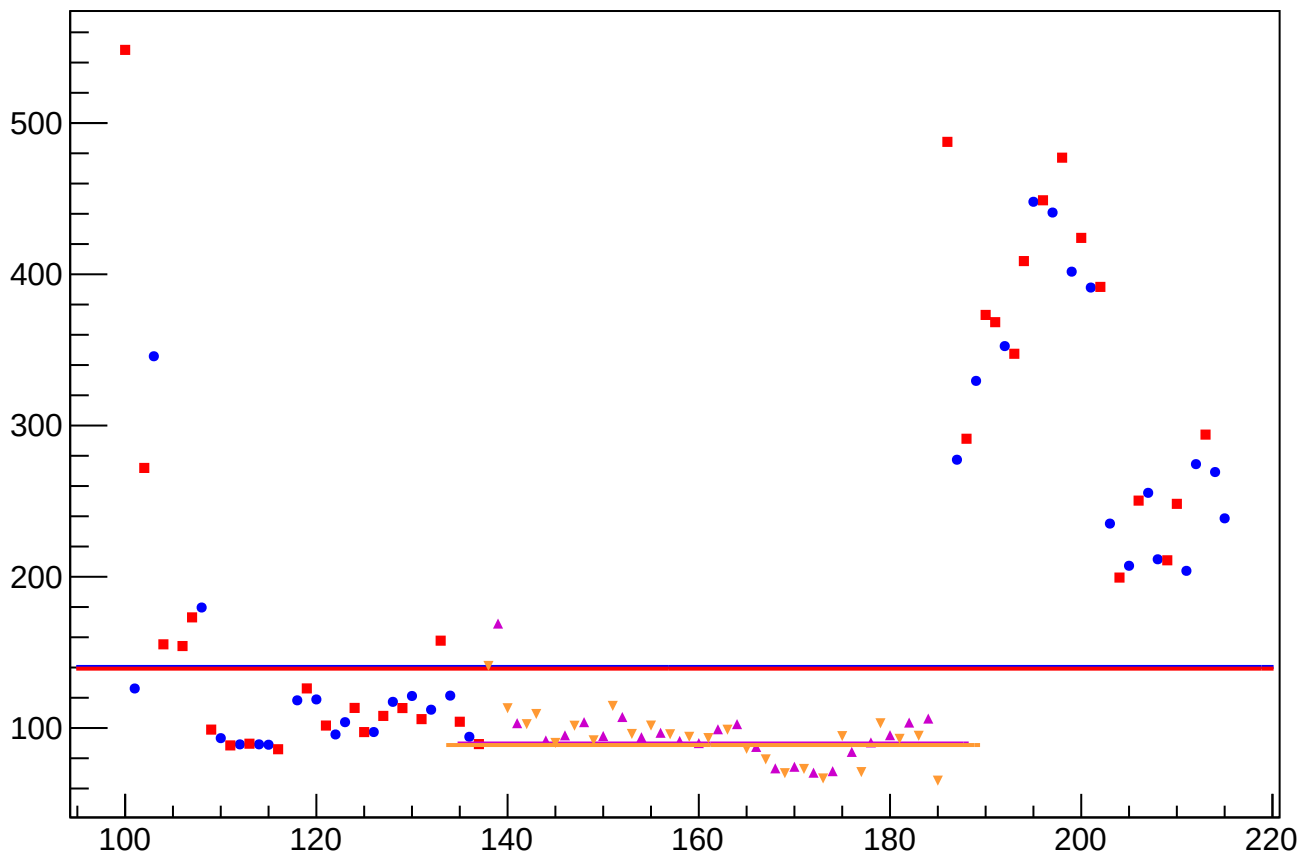
Right: 30.846 ± 27.642 χ^2/NDF : 75.8/65

In: 47.290 ± 19.088 χ^2/NDF : 65.5/54

Out: 57.523 ± 18.623 χ^2/NDF : 87.3/58

All: 52.533 ± 13.330 χ^2/NDF : 152.9/113

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 140.373 $\pm$ 0.027 χ^2/NDF : 7761200.0/31

Left Out: 88.748 $\pm$ 0.015 χ^2/NDF : 1079338.8/24

Right Out: 139.259 $\pm$ 0.028 χ^2/NDF : 8494304.9/33

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

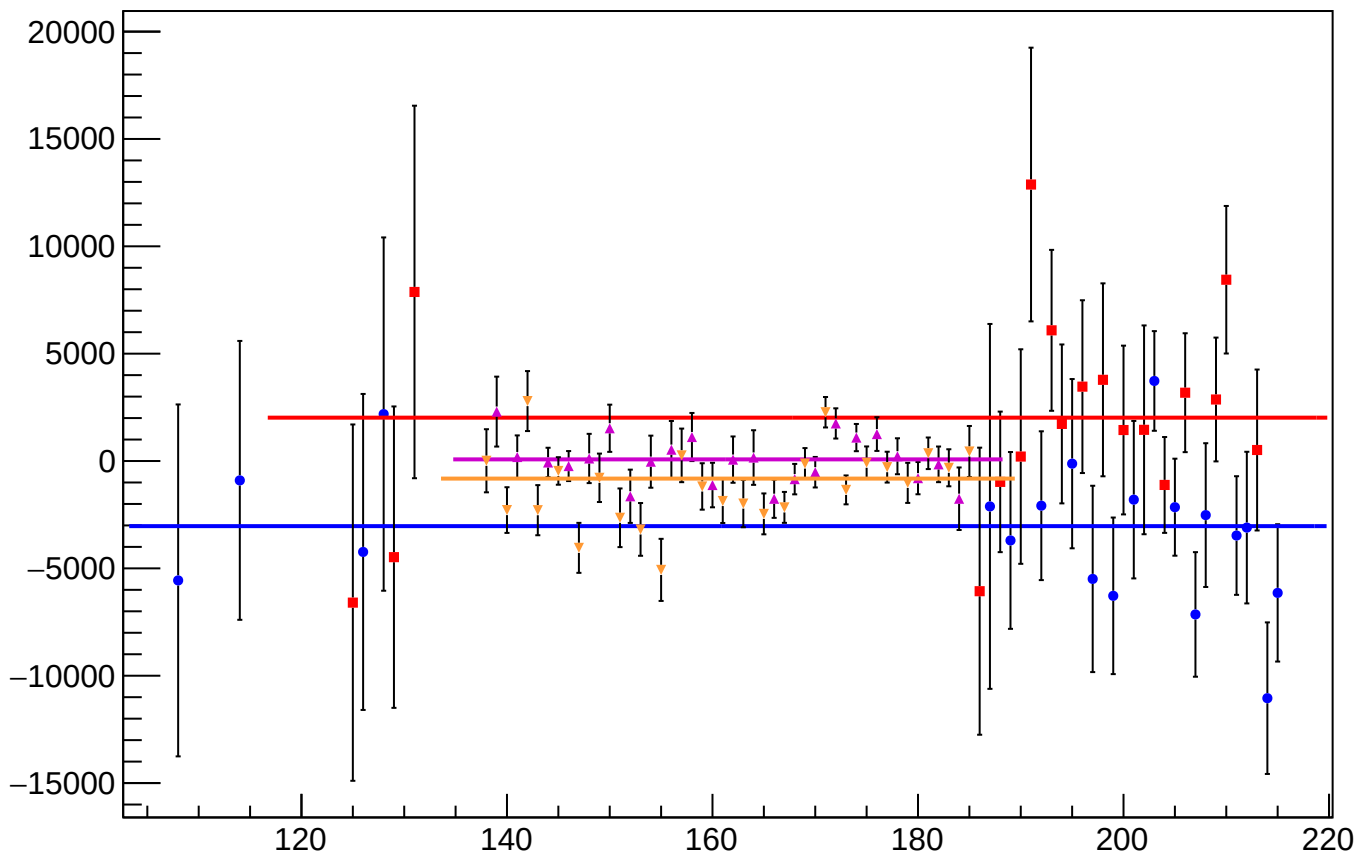
Right: 139.824 $\pm$ 0.020 χ^2/NDF : 16256318.1/65

In: 102.001 $\pm$ 0.013 χ^2/NDF : 11224088.9/54

Out: 100.051 $\pm$ 0.013 χ^2/NDF : 12129326.8/58

All: 101.002 $\pm$ 0.009 χ^2/NDF : 23364104.2/115

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3033.129 ± 823.734 $\chi^2/\text{NDF}: 19.3/18$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 2019.540 ± 913.490 $\chi^2/\text{NDF}: 15.1/17$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

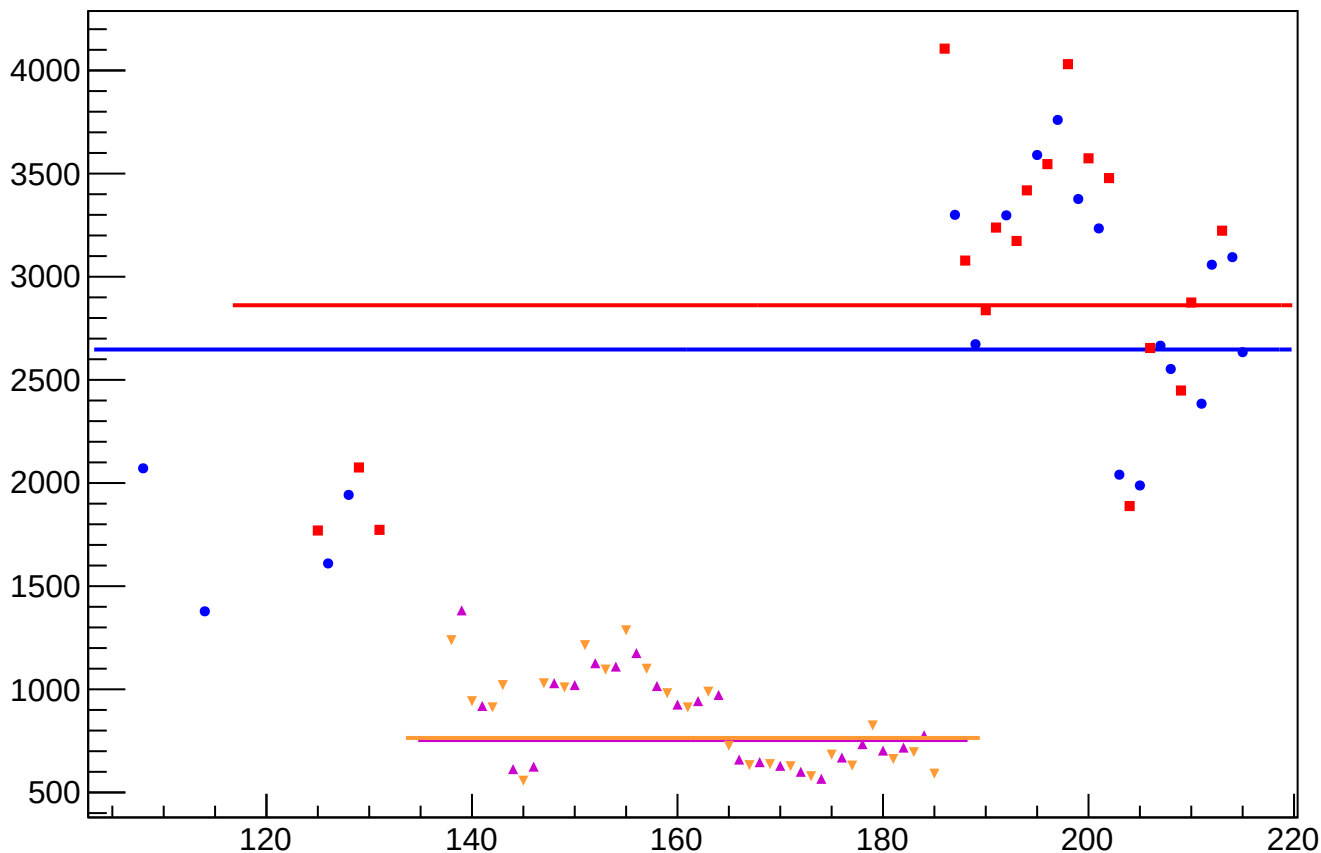
Right: -767.151 ± 611.746 $\chi^2/\text{NDF}: 51.3/36$

In: -75.644 ± 182.036 $\chi^2/\text{NDF}: 61.1/41$

Out: -707.669 ± 180.814 $\chi^2/\text{NDF}: 92.6/42$

All: -393.784 ± 128.285 $\chi^2/\text{NDF}: 159.8/84$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2647.238 $\pm$ 0.582 χ^2 /NDF: 986281.0/18

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2861.822 $\pm$ 0.646 χ^2 /NDF: 977557.9/17

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

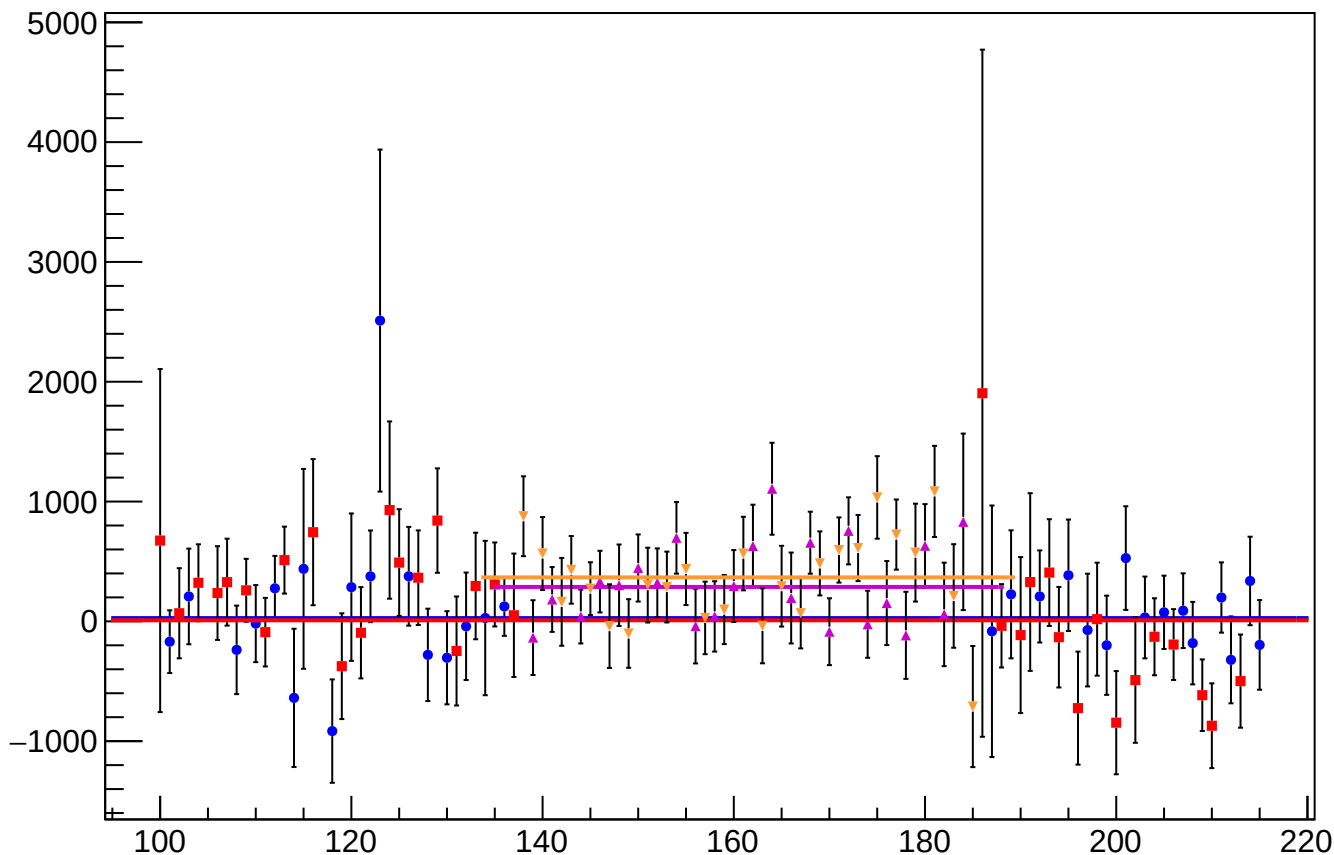
Right: 2743.473 $\pm$ 0.433 χ^2 /NDF: 2024706.5/36

In: 846.484 $\pm$ 0.129 χ^2 /NDF: 13048356.9/41

Out: 846.460 $\pm$ 0.128 χ^2 /NDF: 13425343.5/42

All: 846.472 $\pm$ 0.091 χ^2 /NDF: 26473700.5/84

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 27.062+/-67.781 χ^2/NDF : 20.2/31

Left Out: 367.028+/-61.943 χ^2/NDF :28.2/24

Right Out: 8.868+/-68.324 χ^2/NDF : 39.3/33

Left In: 287.246+/-64.141 χ^2/NDF :23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

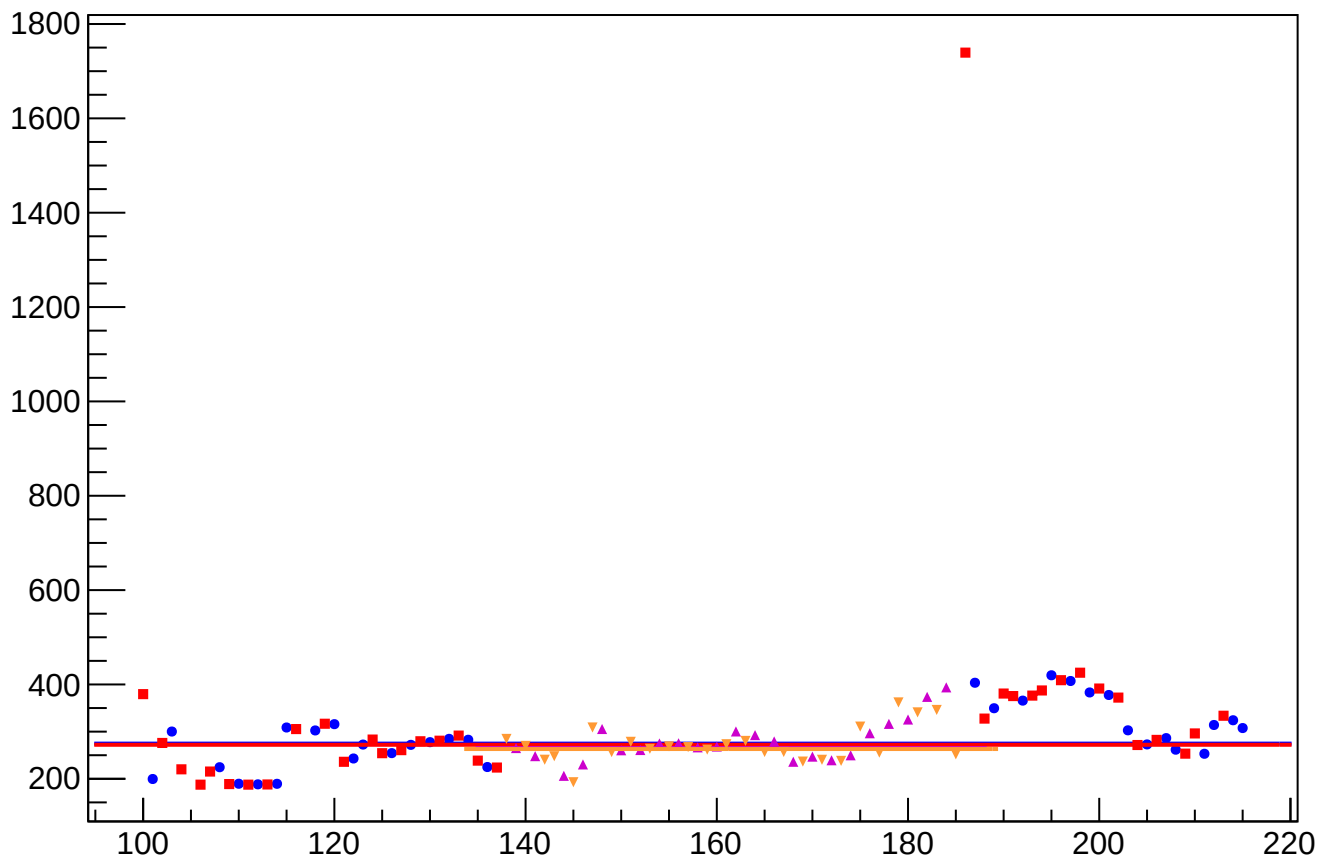
Right: 18.037+/-48.119 χ^2/NDF : 59.5/65

In: 164.329+/-46.588 χ^2/NDF :51.9/54

Out: 205.449+/-45.891 χ^2/NDF :82.6/58

All: 185.199+/-32.694 χ^2/NDF : 134.8/113

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 274.600 $\pm$ 0.048 χ^2 /NDF: 1609375.5/31

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 272.132 $\pm$ 0.048 χ^2 /NDF: 2457373.7/33

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

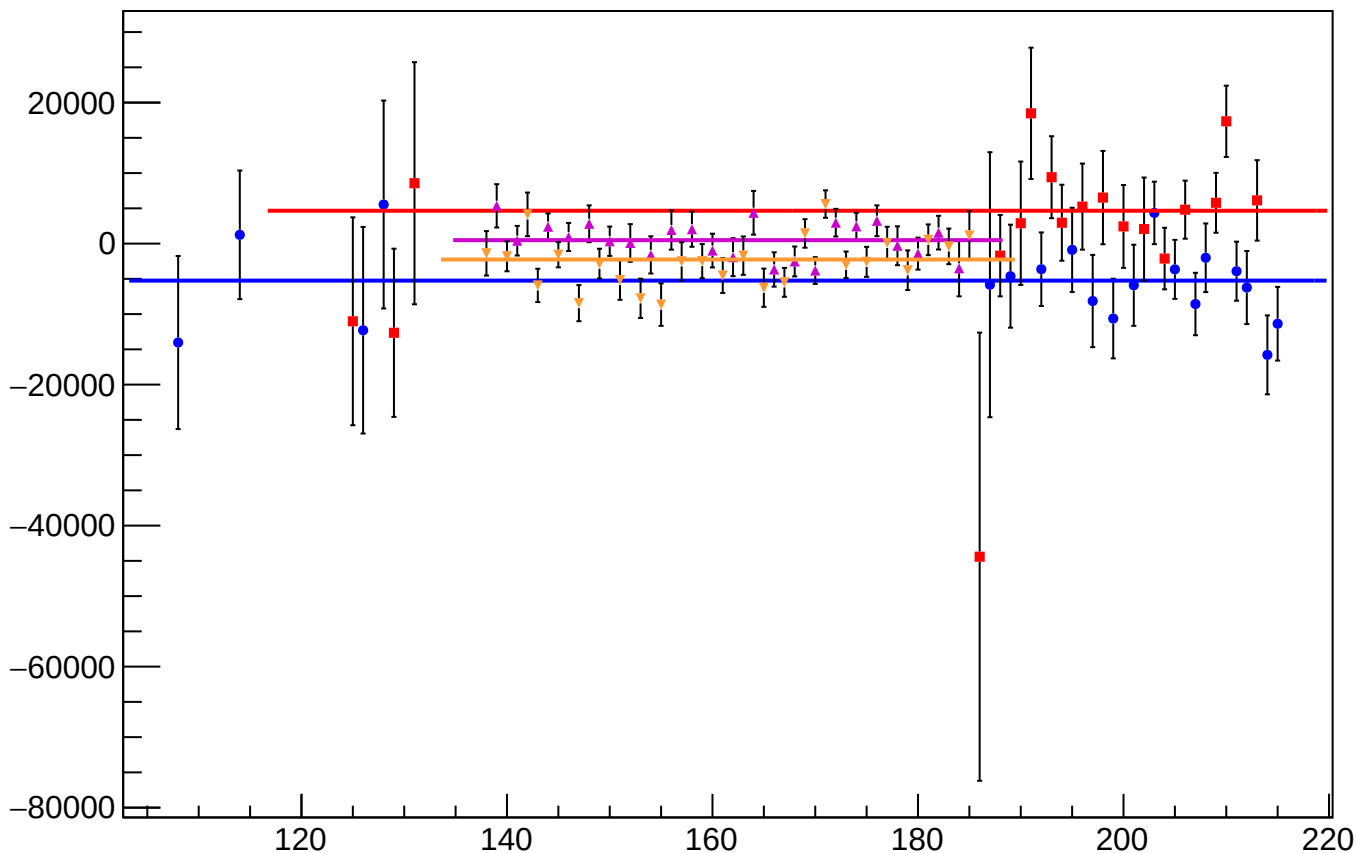
Right: 273.376 $\pm$ 0.034 χ^2 /NDF: 4068063.8/65

In: 269.495 $\pm$ 0.033 χ^2 /NDF: 2239906.8/54

Out: 267.176 $\pm$ 0.032 χ^2 /NDF: 3118772.5/58

All: 268.318 $\pm$ 0.023 χ^2 /NDF: 5361192.6/113

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5250.965 $\pm$ 1332.376 χ^2 /NDF: 14.4/18

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 4661.303 $\pm$ 1460.518 χ^2 /NDF: 19.1/17

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

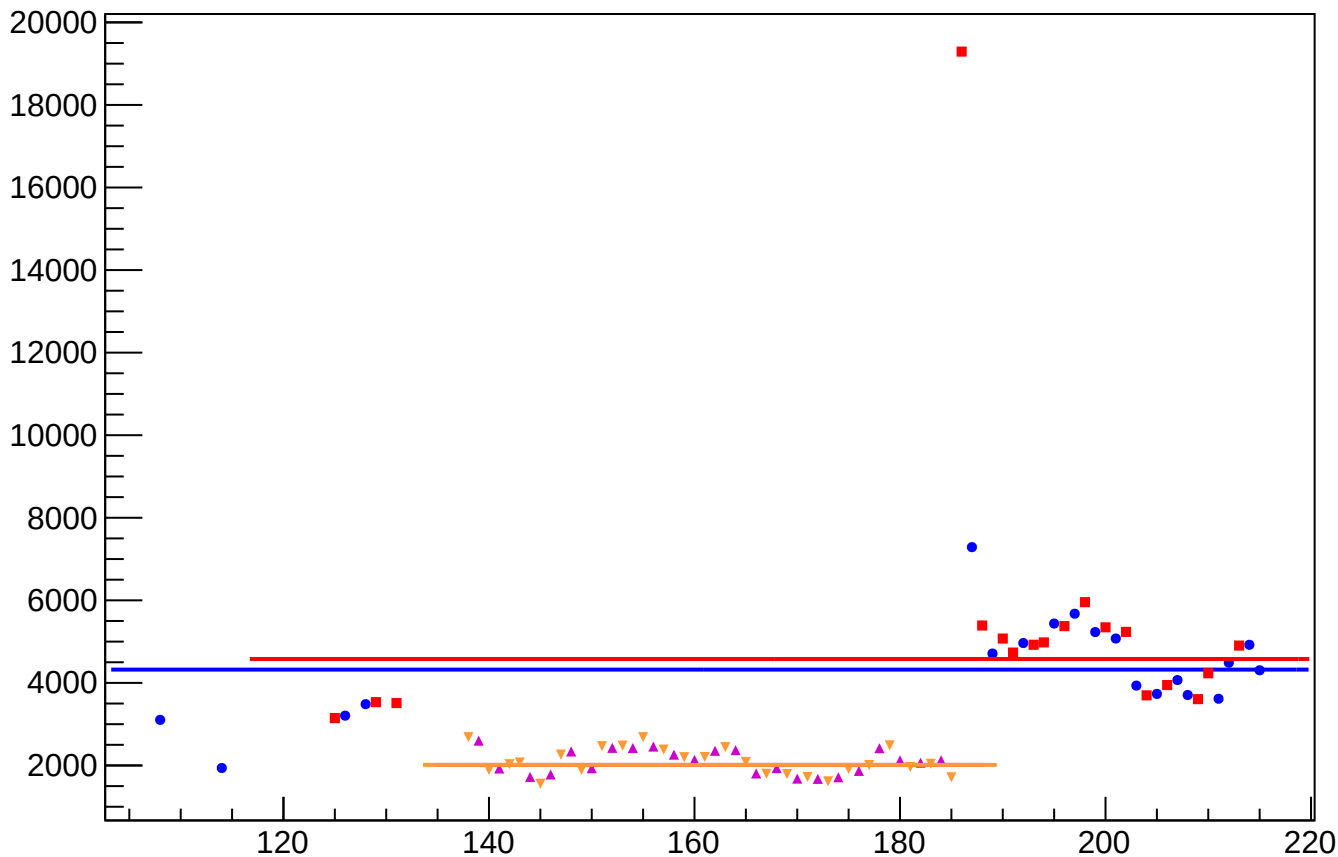
Right: -748.665 $\pm$ 984.323 χ^2 /NDF: 58.7/36

In: -191.627 $\pm$ 457.789 χ^2 /NDF:55.5/41

Out: -1597.274 $\pm$ 452.000 χ^2 /NDF:91.7/42

All: -903.395 $\pm$ 321.639 χ^2 /NDF: 152.1/84

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4322.058+/-0.942 χ^2/NDF : 677074.0/18

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4579.156+/-1.033 χ^2/NDF : 954937.3/17

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

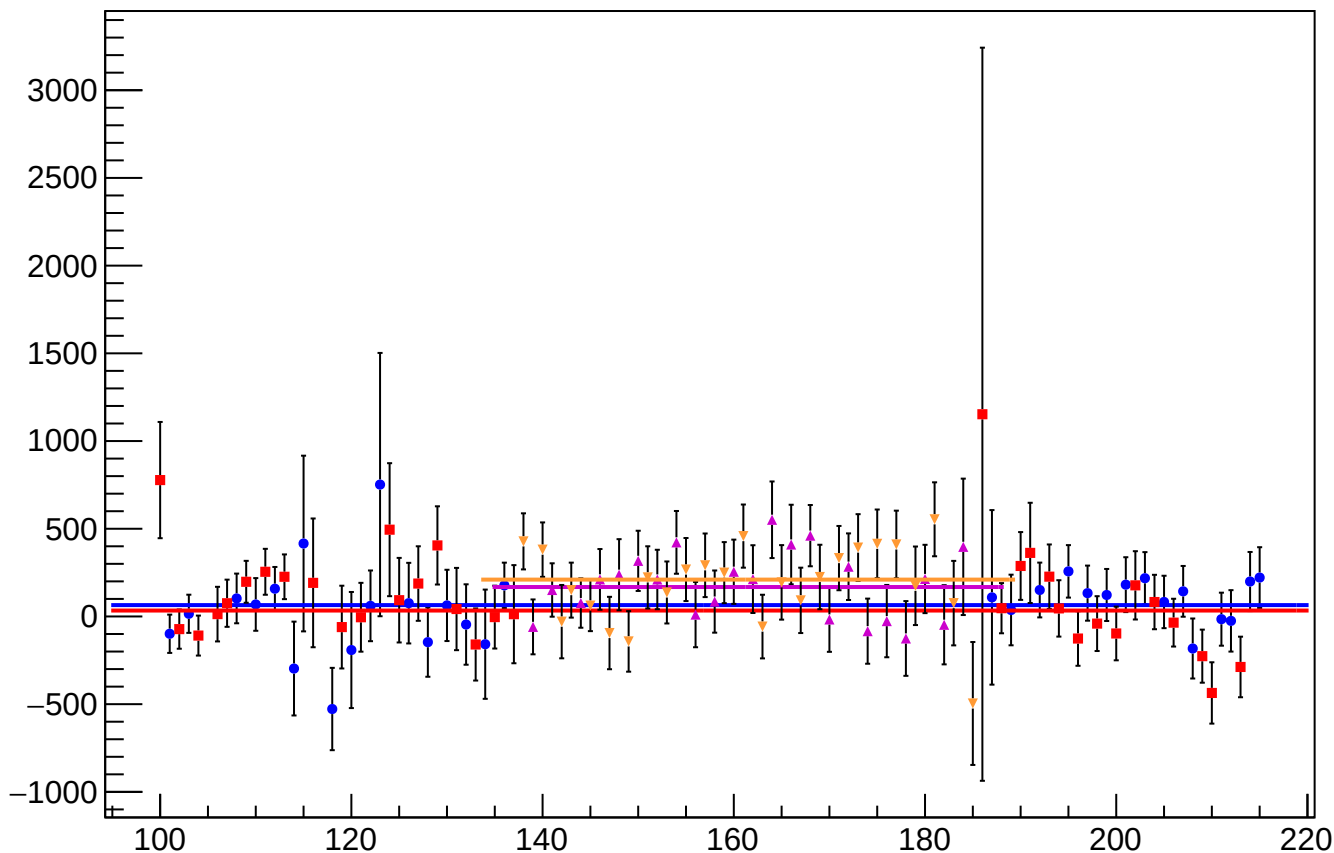
Right: 4438.835+/-0.696 χ^2/NDF : 1665836.0/36

In: 2285.807+/-0.324 χ^2/NDF : 6635740.5/41

Out: 2259.779+/-0.320 χ^2/NDF : 7368654.0/42

All: 2272.627+/-0.227 χ^2/NDF : 14007668.3/8

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 64.719+/-29.942 χ^2/NDF : 24.2/31

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 33.746+/-29.239 χ^2/NDF : 41.8/33

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

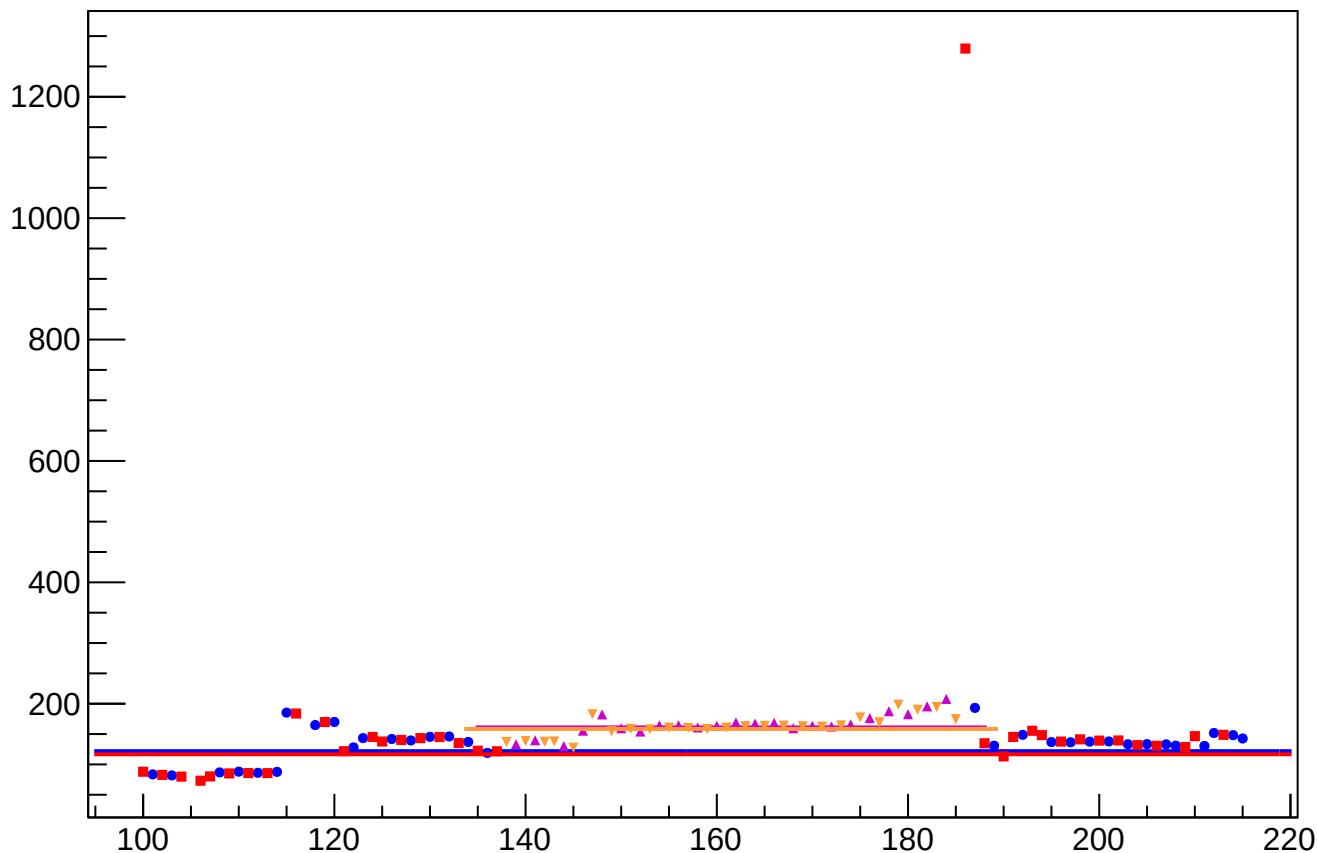
Right: 48.865+/-20.919 χ^2/NDF : 66.6/65

In: 103.304+/-23.686 χ^2/NDF :49.8/54

Out: 101.325+/-22.963 χ^2/NDF :83.3/58

All: 102.284+/-16.487 χ^2/NDF : 133.1/113

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 121.824+/-0.021 χ^2/NDF : 1538542.9/31

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 116.705+/-0.021 χ^2/NDF : 2553871.8/33

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

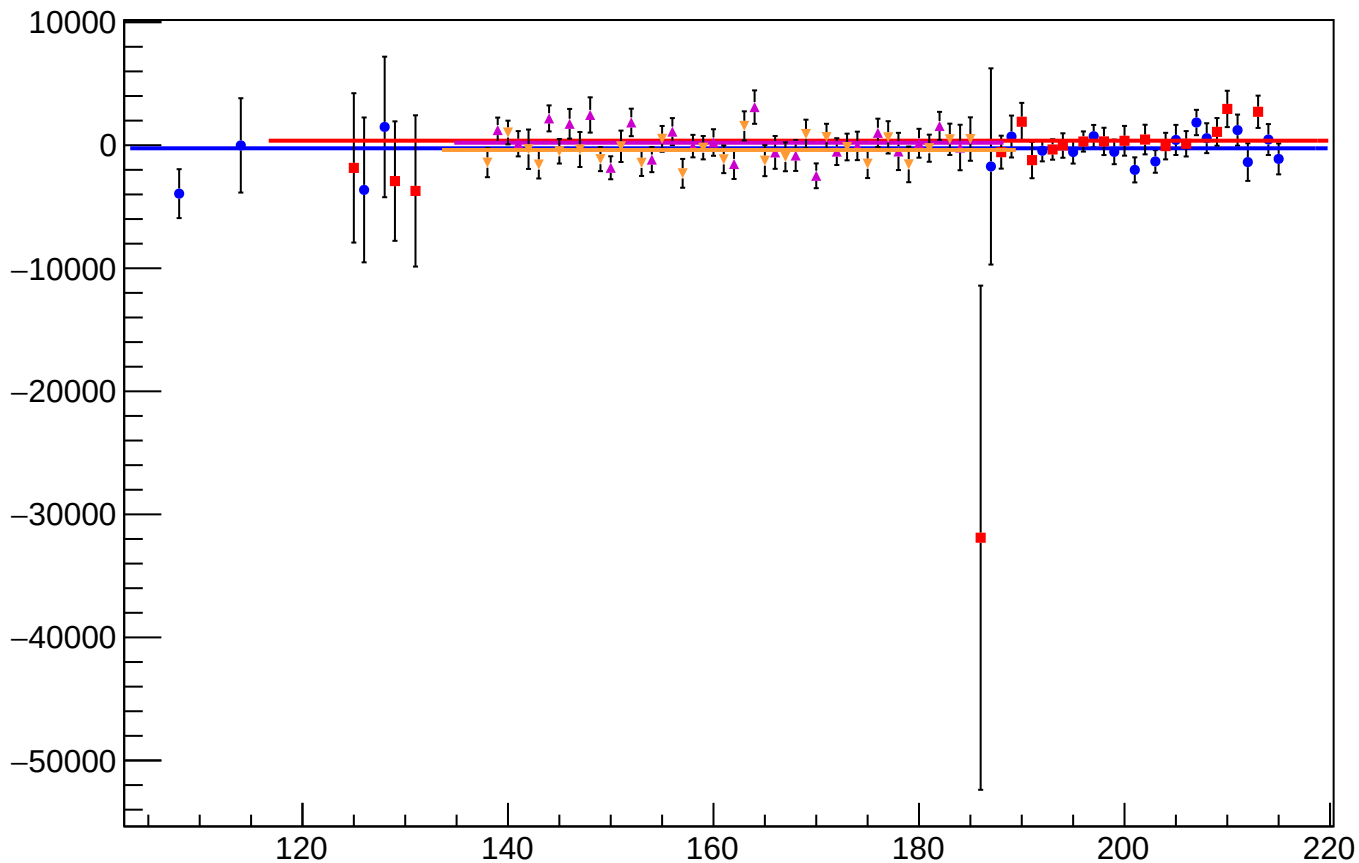
Right: 119.204+/-0.015 χ^2/NDF : 4122334.2/65

In: 136.466+/-0.017 χ^2/NDF : 3196110.2/54

Out: 132.699+/-0.016 χ^2/NDF : 4549720.2/58

All: 134.524+/-0.012 χ^2/NDF : 7771895.1/113

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -249.338+/-286.566 χ^2/NDF : 17.5/18

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 368.797+/-297.398 χ^2/NDF : 14.0/17

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

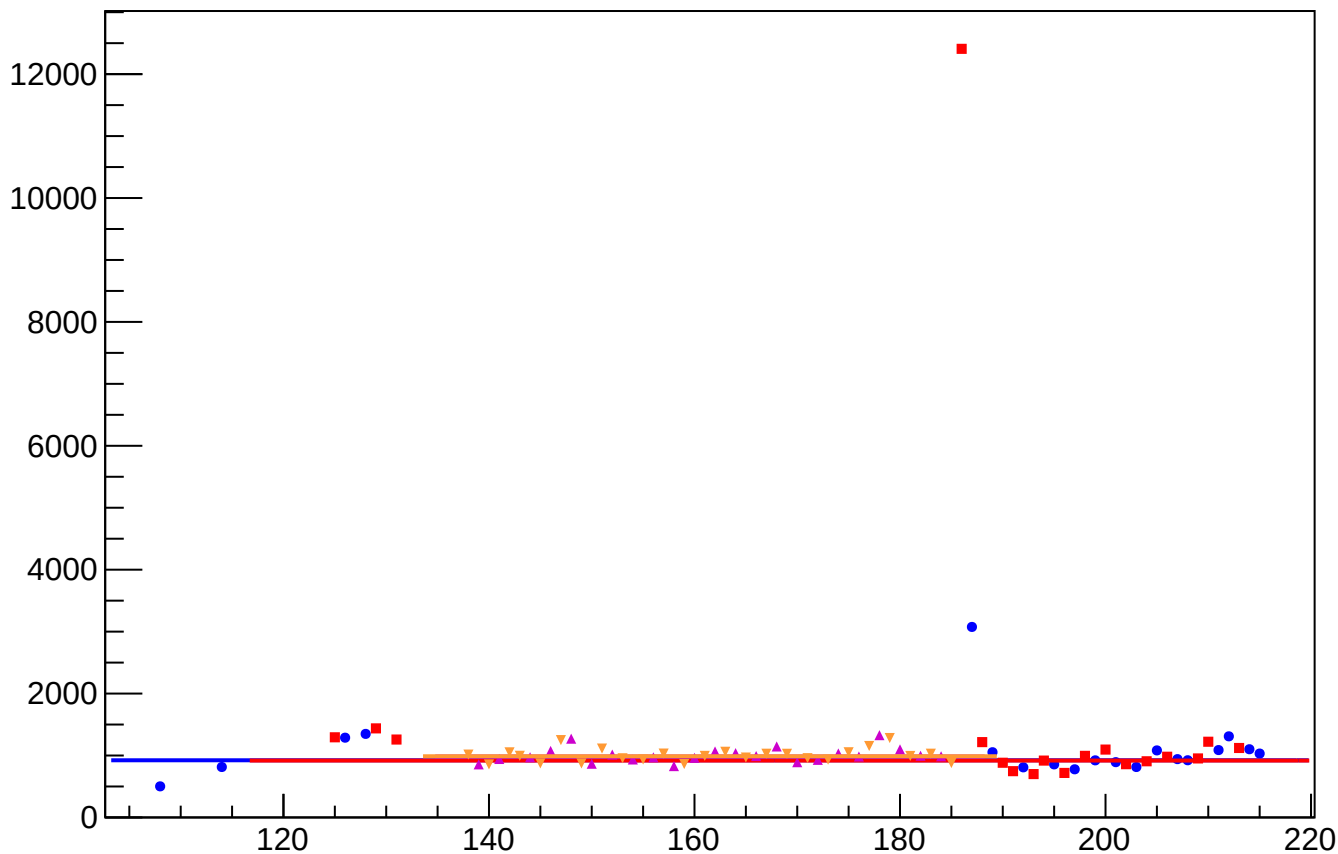
Right: 48.268+/-206.356 χ^2/NDF : 33.7/36

In: 18.396+/-182.843 χ^2/NDF : 54.5/41

Out: -100.086+/-182.842 χ^2/NDF : 36.0/42

All: -40.845+/-129.289 χ^2/NDF : 90.7/84

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 923.103+/-0.203 χ^2/NDF : 644875.5/18

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 918.619+/-0.210 χ^2/NDF : 1248760.4/17

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

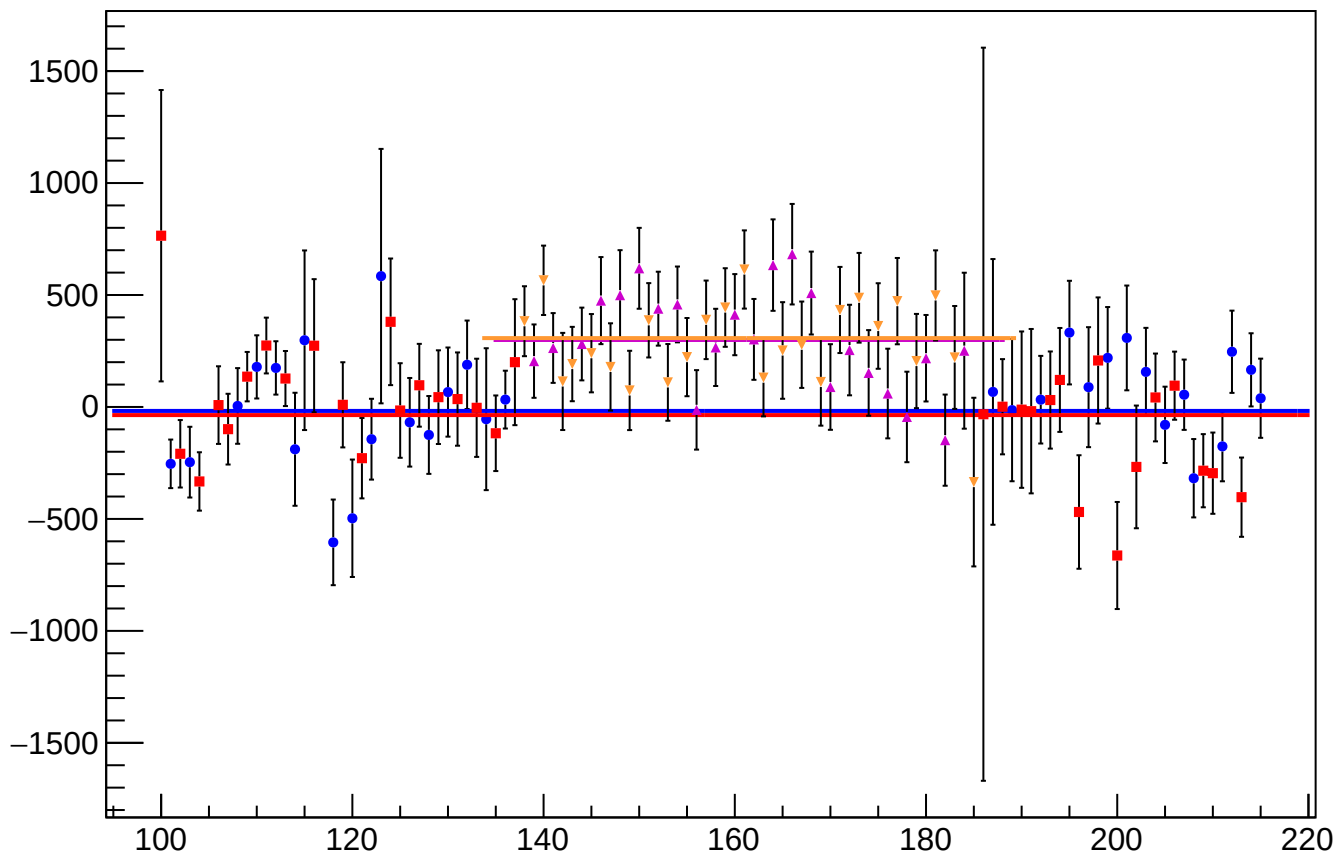
Right: 920.944+/-0.146 χ^2/NDF : 1893871.7/36

In: 959.145+/-0.129 χ^2/NDF : 1114502.1/41

Out: 961.693+/-0.129 χ^2/NDF : 1693171.5/42

All: 960.419+/-0.091 χ^2/NDF : 2807867.8/84

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -17.663 ± 32.601 χ^2/NDF : 42.8/31

Left Out: 307.487 ± 37.278 χ^2/NDF : 20.7/24

Right Out: -36.304 ± 32.516 χ^2/NDF : 46.2/33

Left In: 299.192 ± 39.009 χ^2/NDF : 28.5/22

Left: 303.528 ± 26.951 χ^2/NDF : 49.3/47

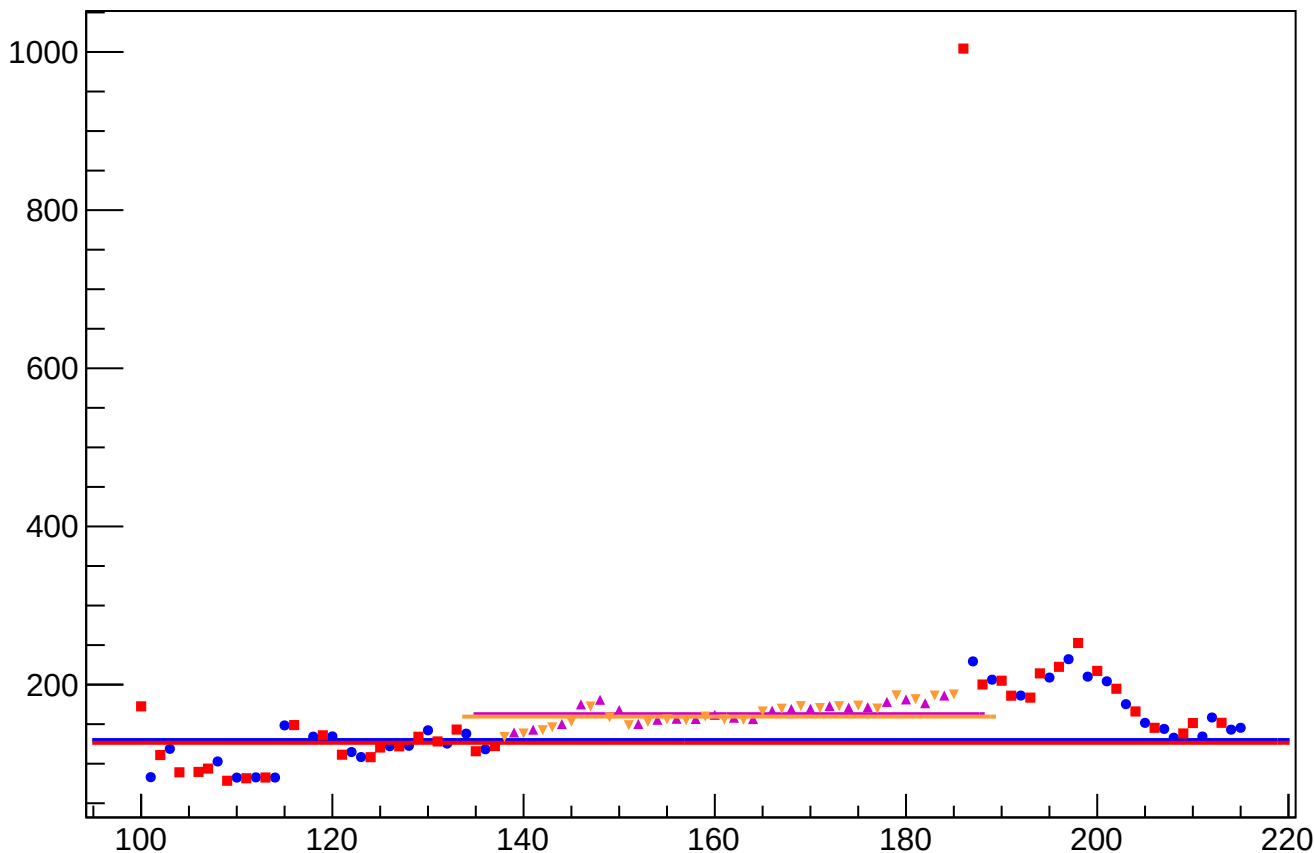
Right: -27.008 ± 23.023 χ^2/NDF : 89.3/65

In: 112.638 ± 25.015 χ^2/NDF : 110.2/54

Out: 112.247 ± 24.504 χ^2/NDF : 115.2/58

All: 112.438 ± 17.505 χ^2/NDF : 225.5/113

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 129.909 $\pm$ 0.023 χ^2 /NDF: 2649349.6/31

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 126.419 $\pm$ 0.023 χ^2 /NDF: 4025252.3/33

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

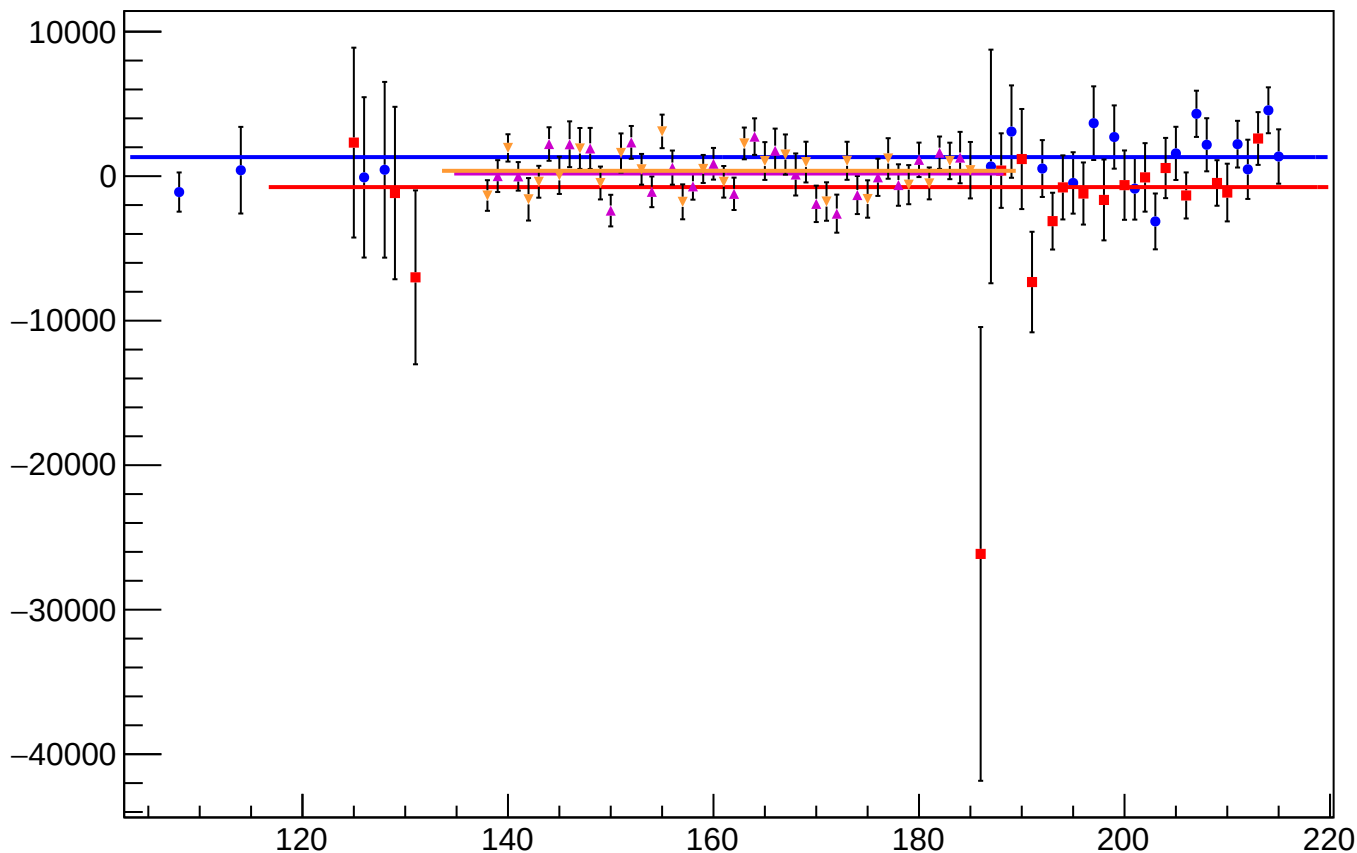
Right: 128.160 $\pm$ 0.016 χ^2 /NDF: 6686095.5/65

In: 143.355 $\pm$ 0.018 χ^2 /NDF:3676188.5/54

Out: 140.743 $\pm$ 0.017 χ^2 /NDF:5211178.6/58

All: 142.022 $\pm$ 0.012 χ^2 /NDF: 8898501.6/113

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1318.670+/-474.738 χ^2/NDF : 20.5/18

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -756.880+/-564.742 χ^2/NDF : 13.7/17

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

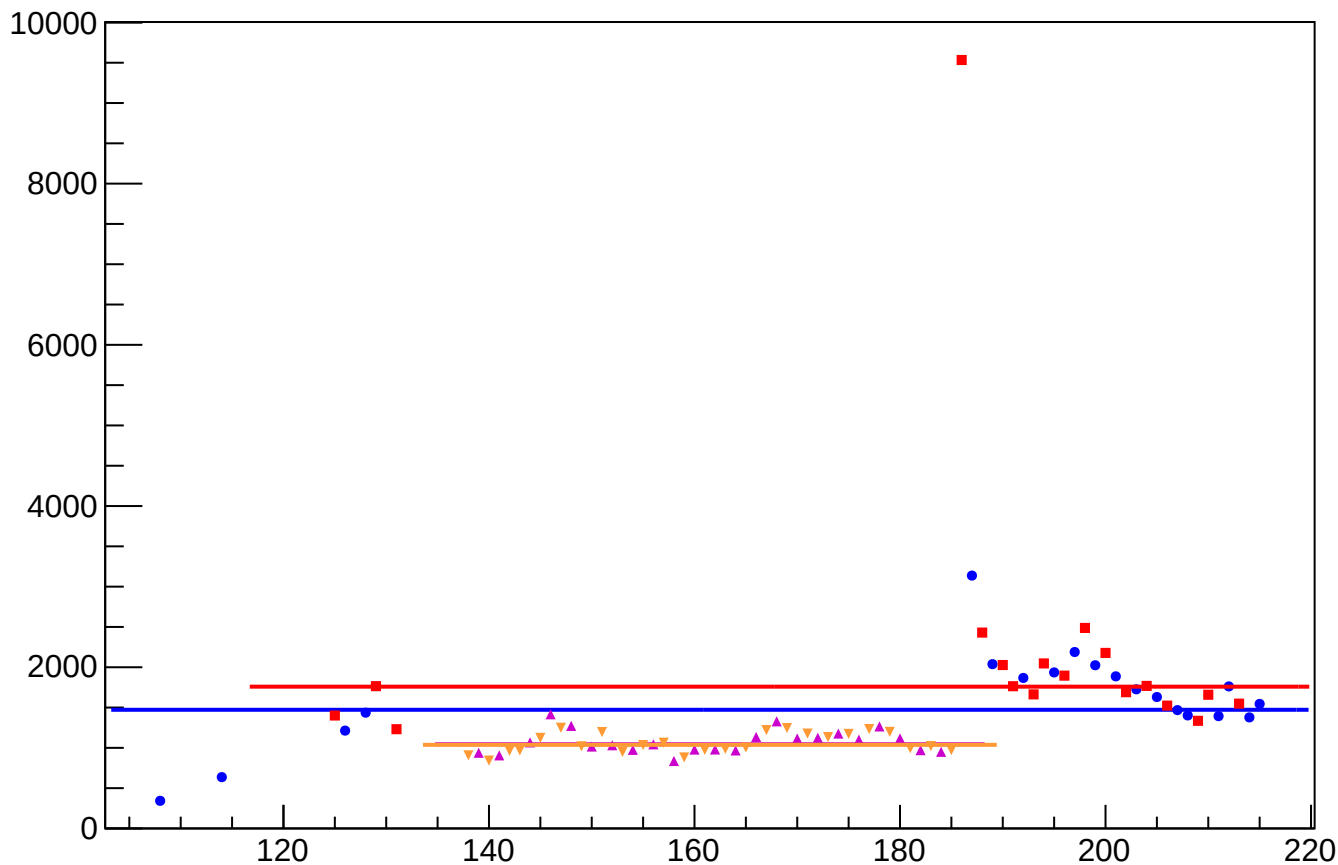
Right: 459.270+/-363.397 χ^2/NDF : 42.1/36

In: 433.135+/-222.763 χ^2/NDF :61.4/41

Out: 193.321+/-223.617 χ^2/NDF :47.5/42

All: 313.687+/-157.818 χ^2/NDF : 109.5/84

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1472.279+/-0.336 χ^2/NDF : 2336553.0/18

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1759.145+/-0.399 χ^2/NDF : 1123831.4/17

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

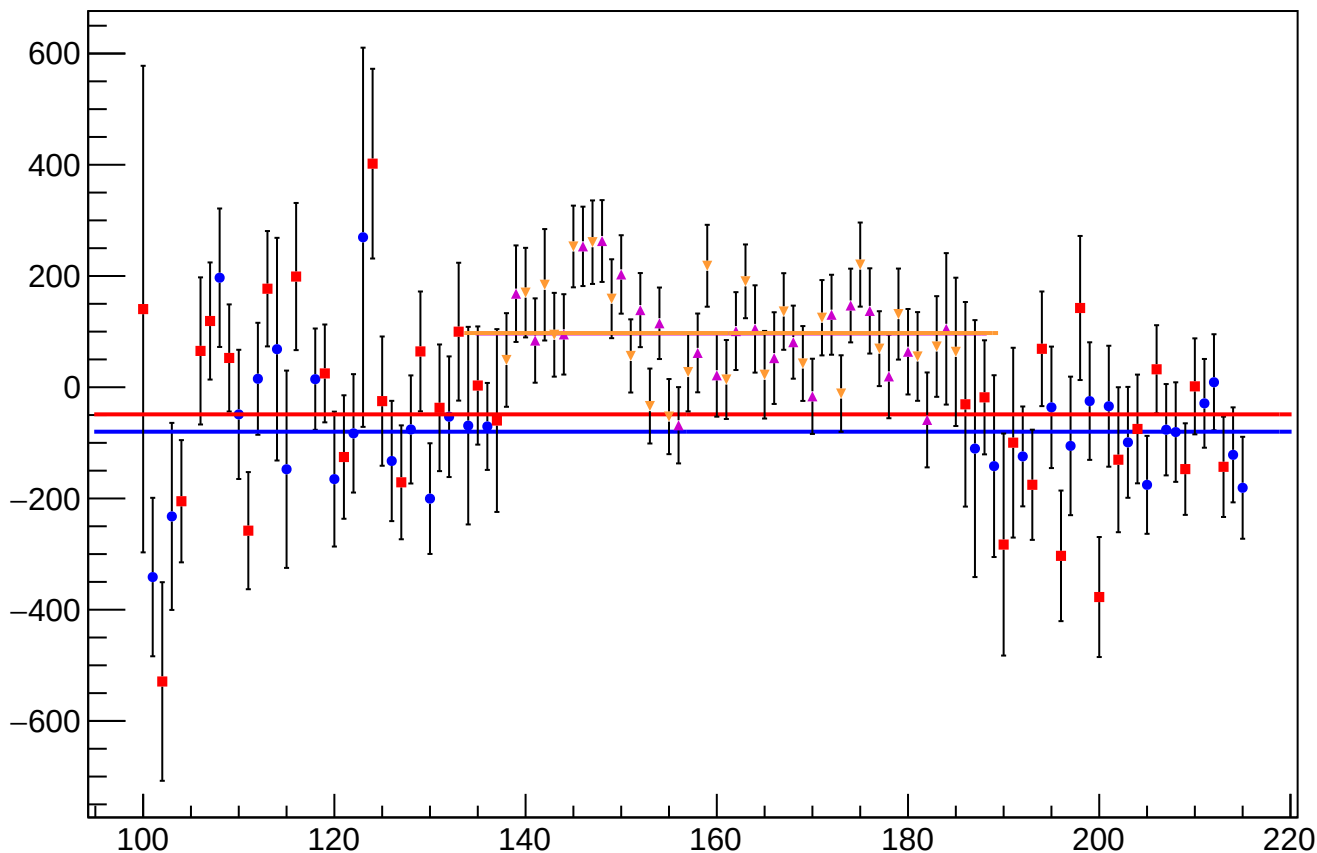
Right: 1591.059+/-0.257 χ^2/NDF : 3762757.2/36

In: 1138.880+/-0.158 χ^2/NDF : 4144770.1/41

Out: 1150.804+/-0.158 χ^2/NDF : 4371060.1/42

All: 1144.819+/-0.112 χ^2/NDF : 8518684.5/84

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -79.950 ± 18.933 χ^2/NDF : 20.4/31

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -48.759 ± 19.214 χ^2/NDF : 63.5/33

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

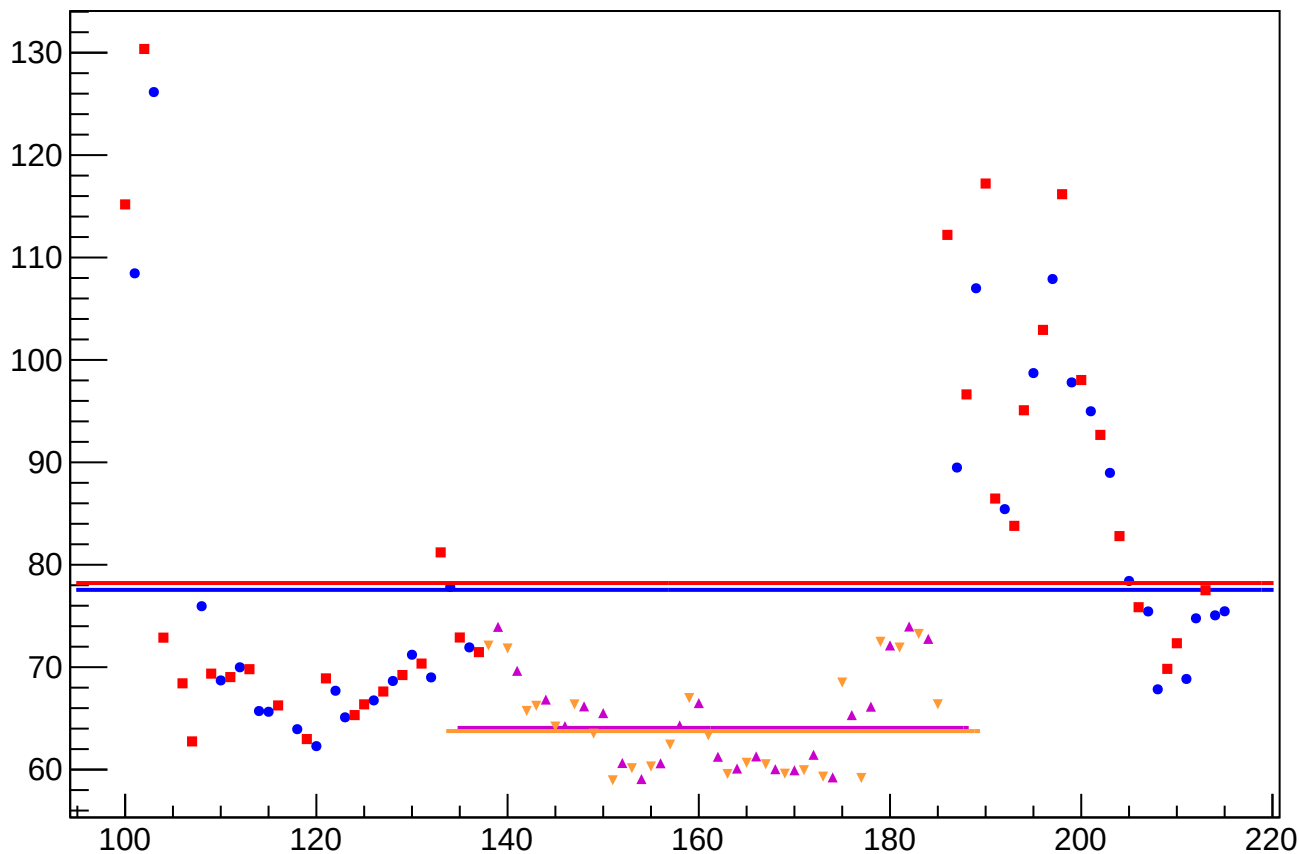
Right: -64.584 ± 13.486 χ^2/NDF : 85.2/65

In: 26.533 ± 11.933 χ^2/NDF : 102.1/54

Out: 42.635 ± 11.765 χ^2/NDF : 135.7/58

All: 34.699 ± 8.378 χ^2/NDF : 238.7/113

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.549 $\pm$ 0.013 χ^2 /NDF: 948524.0/31

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.217 $\pm$ 0.014 χ^2 /NDF: 1128759.0/33

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

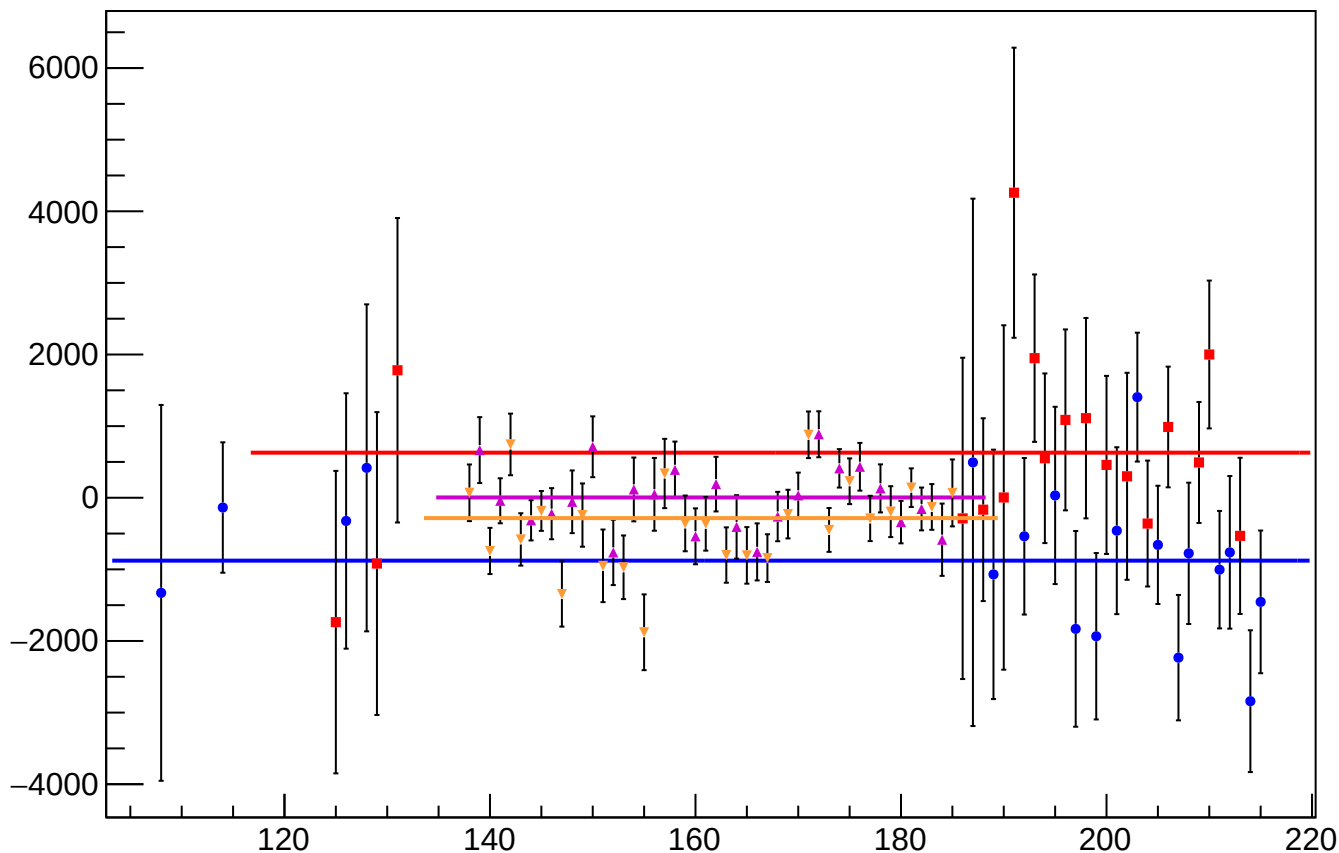
Right: 77.878 $\pm$ 0.010 χ^2 /NDF: 2078509.4/65

In: 69.423 $\pm$ 0.008 χ^2 /NDF: 1724358.4/54

Out: 69.180 $\pm$ 0.008 χ^2 /NDF: 2029233.3/58

All: 69.300 $\pm$ 0.006 χ^2 /NDF: 3754011.7/113

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -878.290 ± 256.561 $\chi^2/\text{NDF}: 16.6/18$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 629.493 ± 295.008 $\chi^2/\text{NDF}: 11.9/17$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

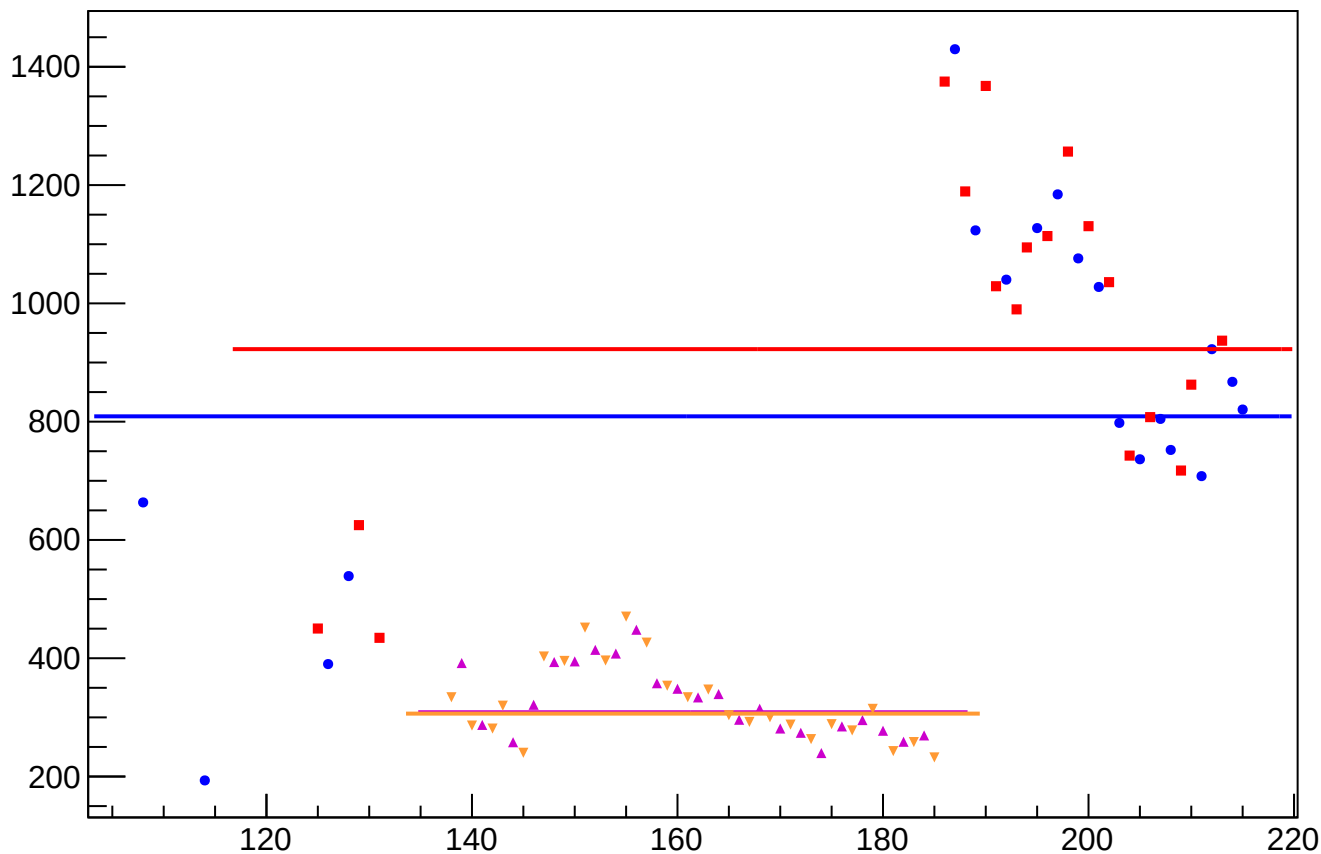
Right: -228.990 ± 193.592 $\chi^2/\text{NDF}: 43.3/36$

In: -65.571 ± 72.062 $\chi^2/\text{NDF}: 59.8/41$

Out: -231.942 ± 70.618 $\chi^2/\text{NDF}: 76.0/42$

All: -150.440 ± 50.437 $\chi^2/\text{NDF}: 138.5/84$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 809.007 $\pm$ 0.181 χ^2 /NDF: 1812151.7/18

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF:1215669.9/24

Right Out: 922.631 $\pm$ 0.209 χ^2 /NDF: 1010879.1/17

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

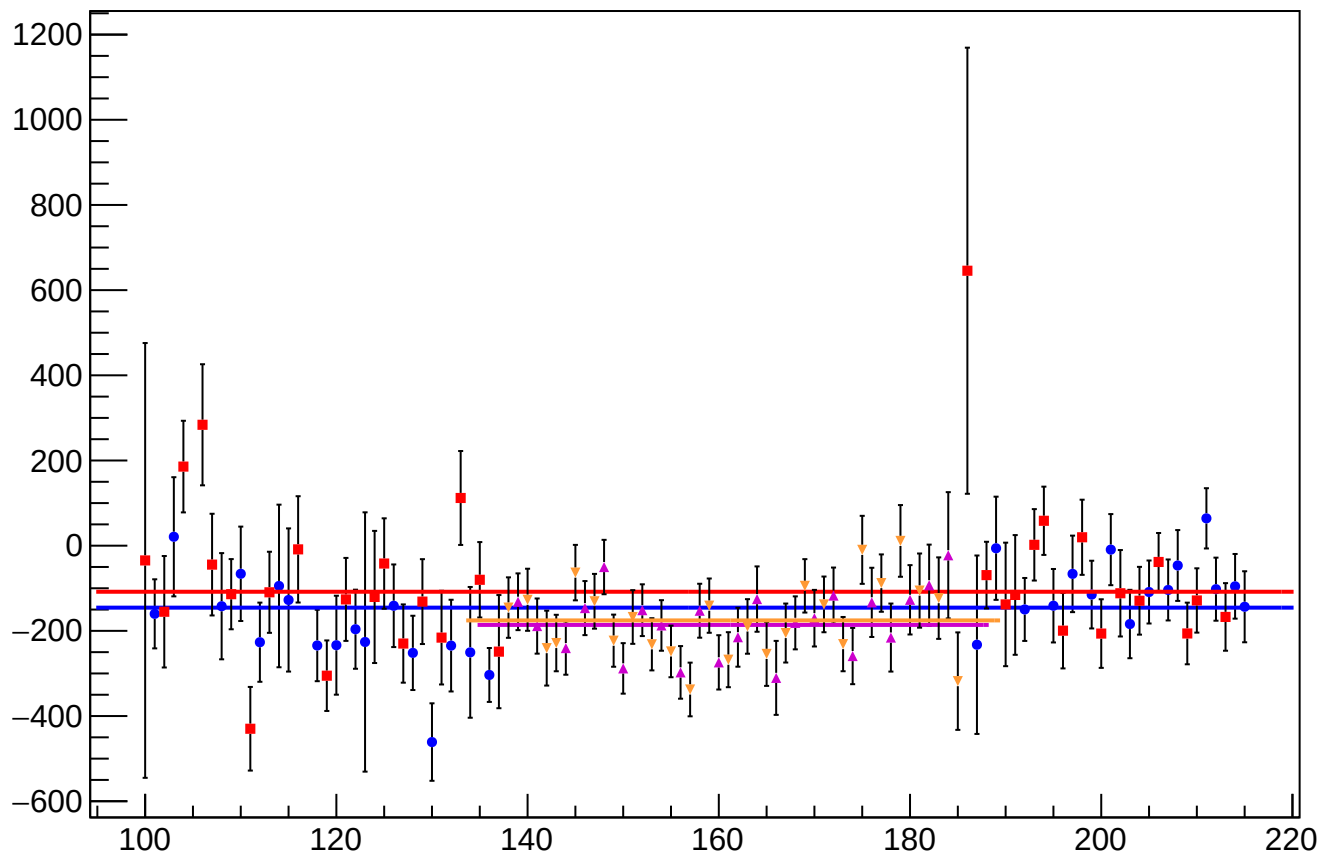
Right: 857.937 $\pm$ 0.137 χ^2 /NDF: 2991956.8/36

In: 348.194 $\pm$ 0.051 χ^2 /NDF:9819768.9/41

Out: 341.676 $\pm$ 0.050 χ^2 /NDF:10454202.2/42

All: 344.869 $\pm$ 0.036 χ^2 /NDF: 20282319.6/84

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -145.499 ± 16.182 $\chi^2/\text{NDF}: 42.7/31$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -108.165 ± 16.636 $\chi^2/\text{NDF}: 57.6/33$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

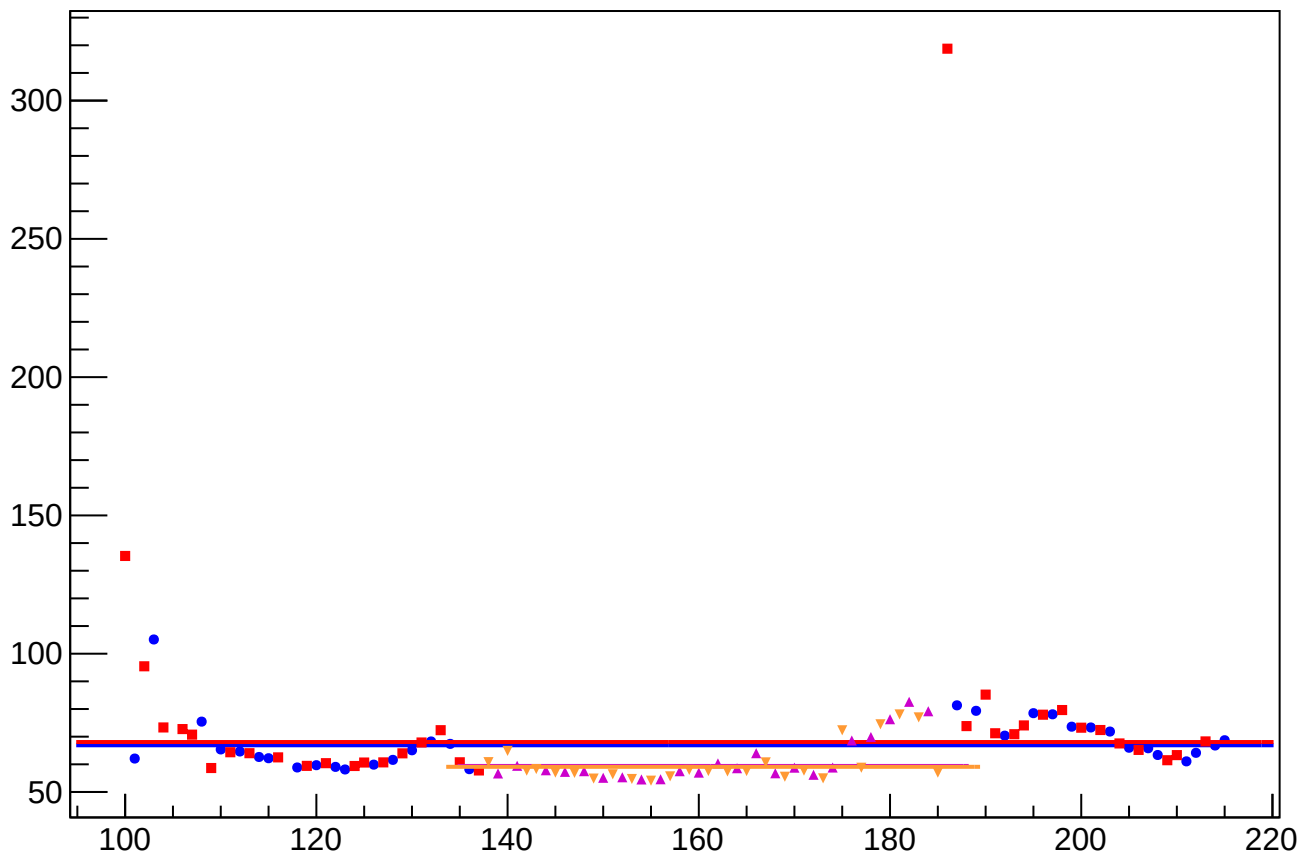
Right: -127.349 ± 11.600 $\chi^2/\text{NDF}: 102.9/65$

In: -168.245 ± 10.722 $\chi^2/\text{NDF}: 69.7/54$

Out: -147.929 ± 10.642 $\chi^2/\text{NDF}: 101.9/58$

All: -158.011 ± 7.553 $\chi^2/\text{NDF}: 173.5/113$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.885 $\pm$ 0.011 χ^2 /NDF: 425806.8/31

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.062 $\pm$ 0.012 χ^2 /NDF: 872390.7/33

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

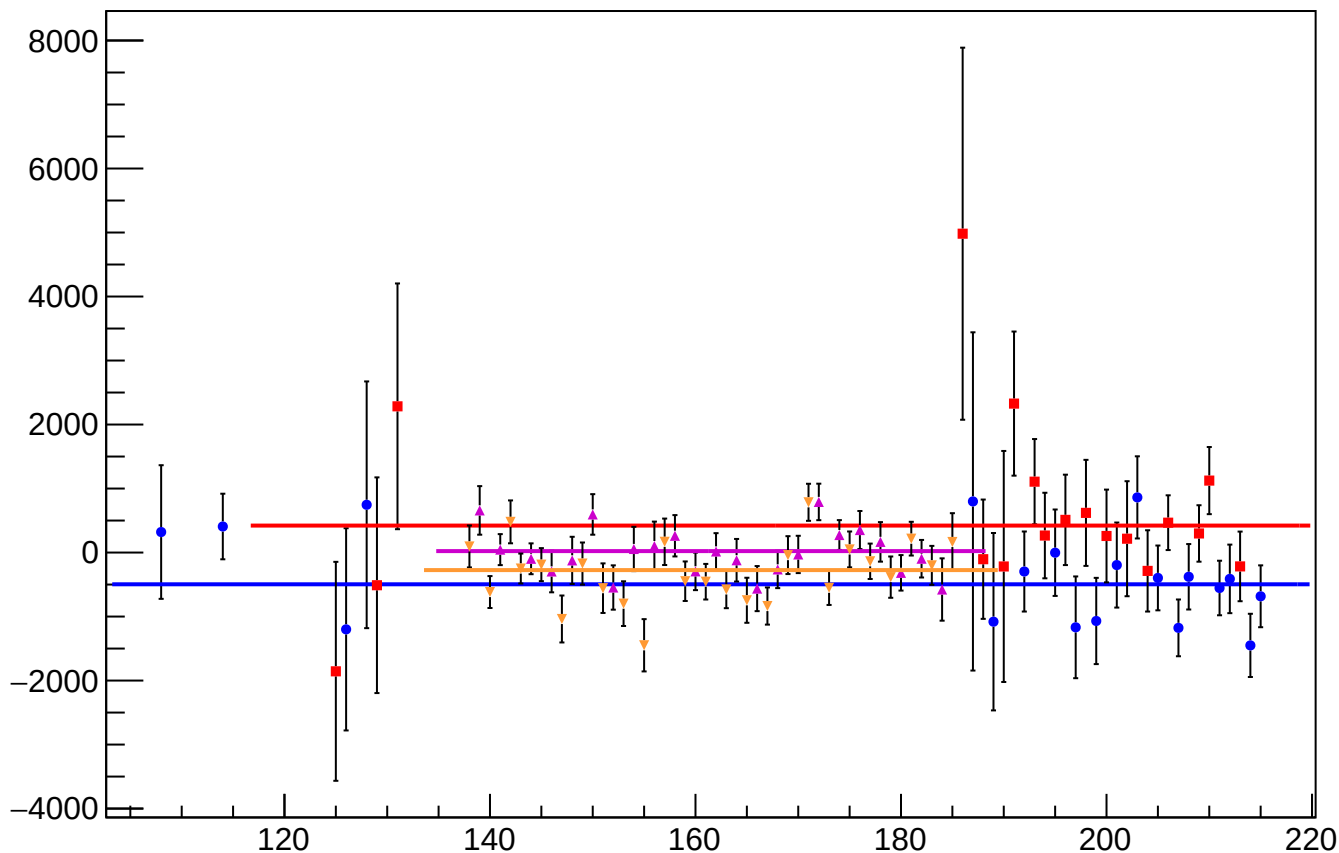
Right: 67.457 $\pm$ 0.008 χ^2 /NDF: 1303346.3/65

In: 62.692 $\pm$ 0.008 χ^2 /NDF: 1038246.3/54

Out: 62.767 $\pm$ 0.008 χ^2 /NDF: 1585158.9/58

All: 62.730 $\pm$ 0.005 χ^2 /NDF: 2623454.8/113

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -495.947 ± 142.165 $\chi^2/\text{NDF}: 17.9/18$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 421.418 ± 170.170 $\chi^2/\text{NDF}: 14.6/17$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

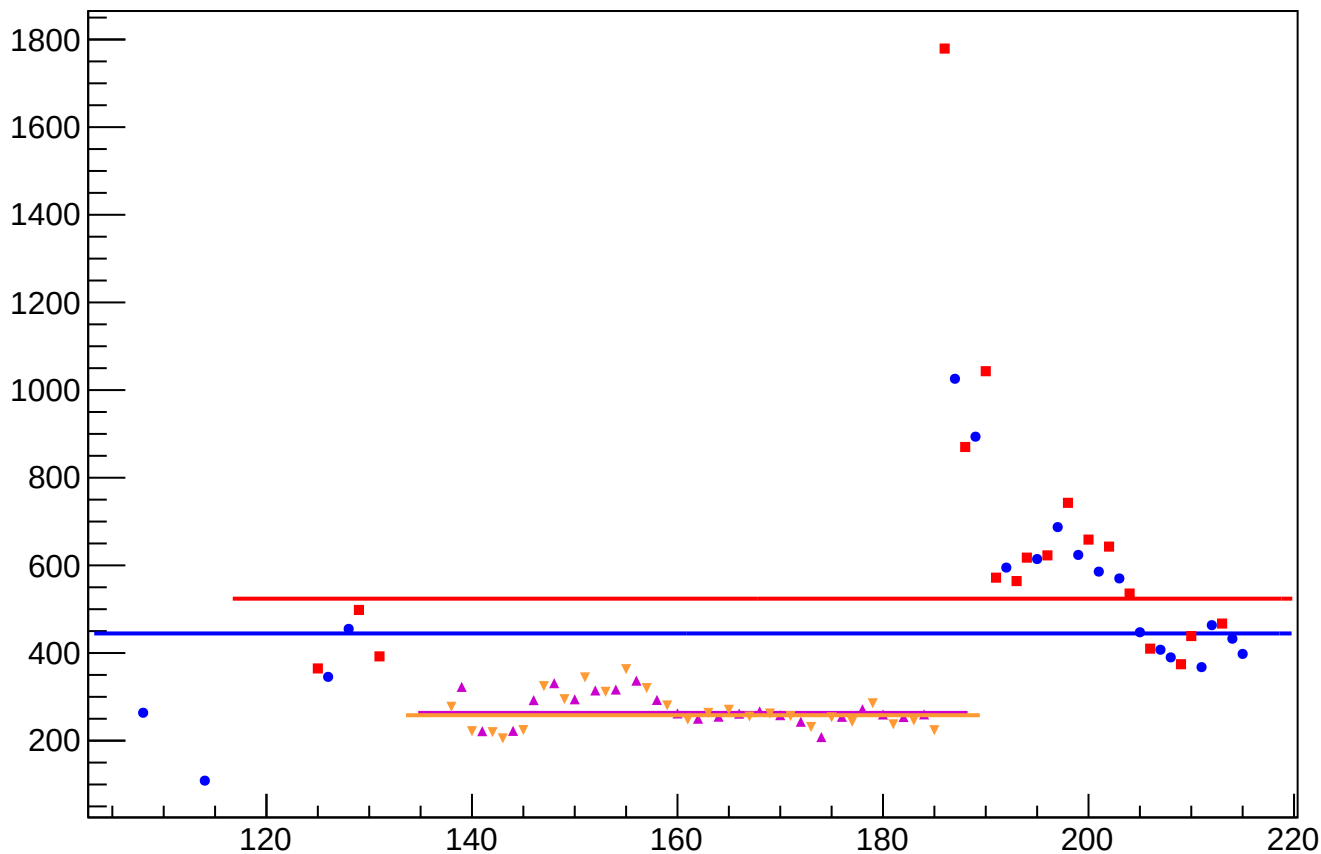
Right: -118.863 ± 109.102 $\chi^2/\text{NDF}: 49.6/36$

In: -63.946 ± 58.088 $\chi^2/\text{NDF}: 57.9/41$

Out: -195.358 ± 57.255 $\chi^2/\text{NDF}: 83.3/42$

All: -130.601 ± 40.777 $\chi^2/\text{NDF}: 143.8/84$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 444.675+/-0.101 χ^2/NDF : 2095337.9/18

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 524.025+/-0.120 χ^2/NDF : 1622066.1/17

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

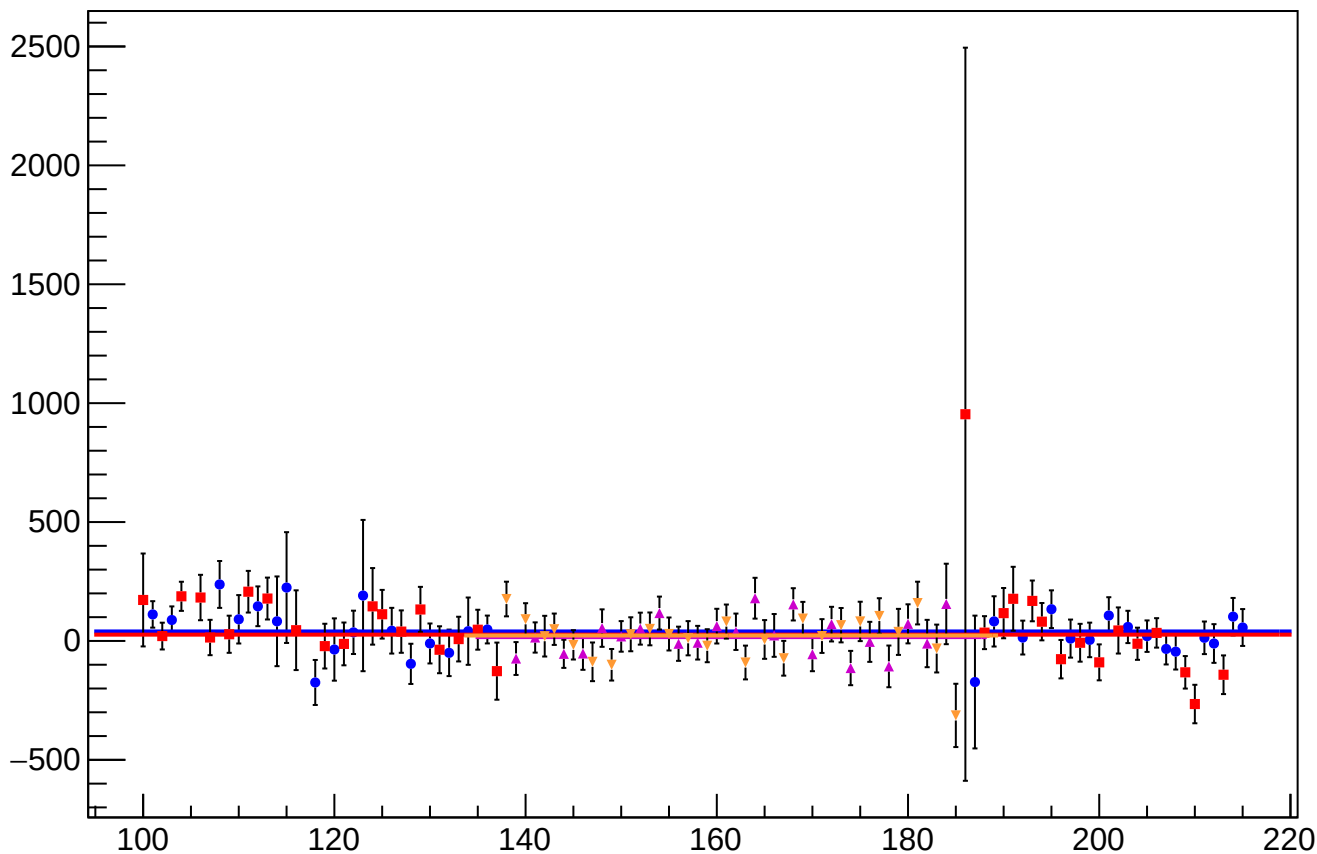
Right: 477.292+/-0.077 χ^2/NDF : 3973520.6/36

In: 293.661+/-0.041 χ^2/NDF : 5389938.5/41

Out: 288.150+/-0.040 χ^2/NDF : 6680035.6/42

All: 290.866+/-0.029 χ^2/NDF : 12079105.1/84

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 39.977 $\pm$ 14.626 χ^2 /NDF: 25.8/31

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 26.511 $\pm$ 14.691 χ^2 /NDF: 55.4/33

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

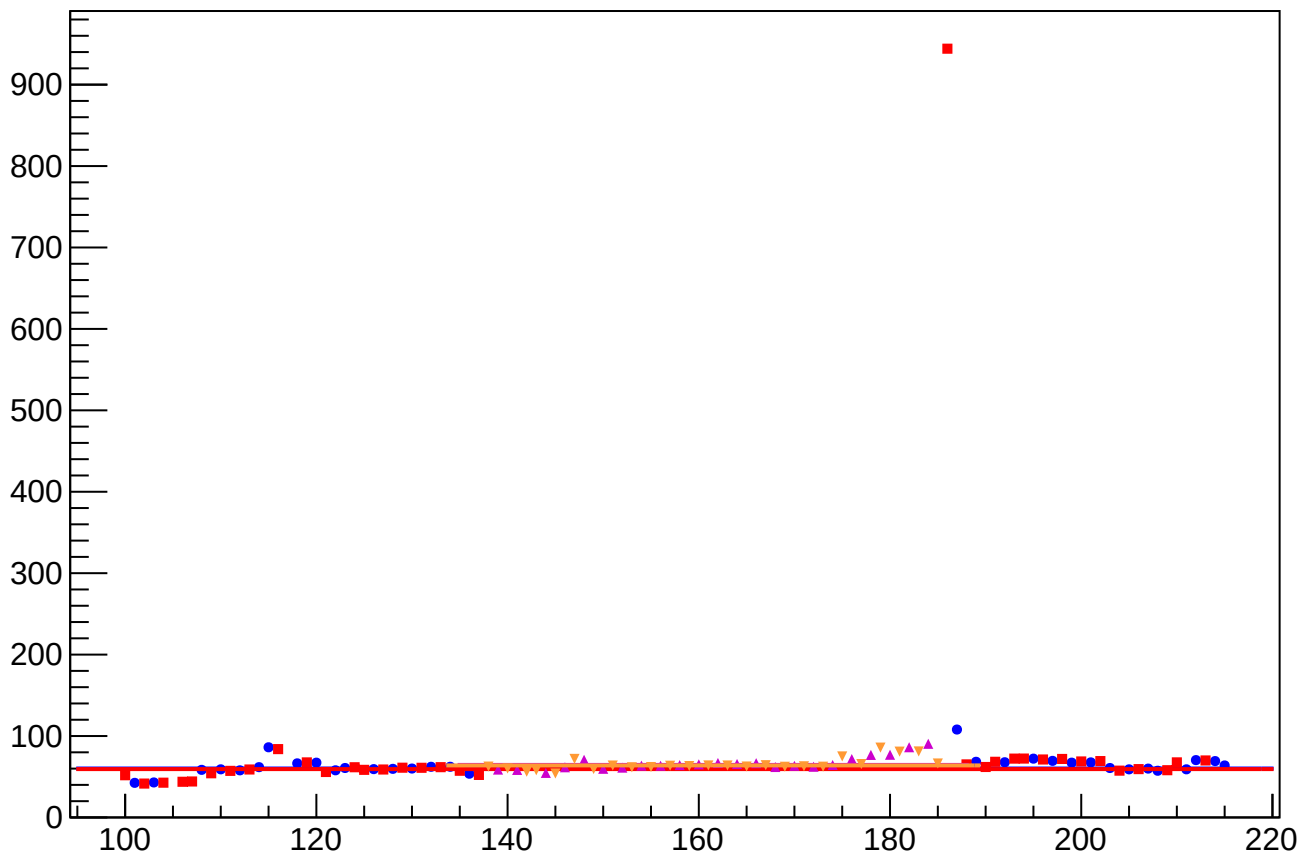
Right: 33.274 $\pm$ 10.365 χ^2 /NDF: 81.5/65

In: 28.800 $\pm$ 10.648 χ^2 /NDF:50.3/54

Out: 24.725 $\pm$ 10.485 χ^2 /NDF:84.4/58

All: 26.731 $\pm$ 7.471 χ^2 /NDF: 134.8/113

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.100 $\pm$ 0.010 χ^2 /NDF: 722787.3/31

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.394 $\pm$ 0.010 χ^2 /NDF: 1552902.9/33

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

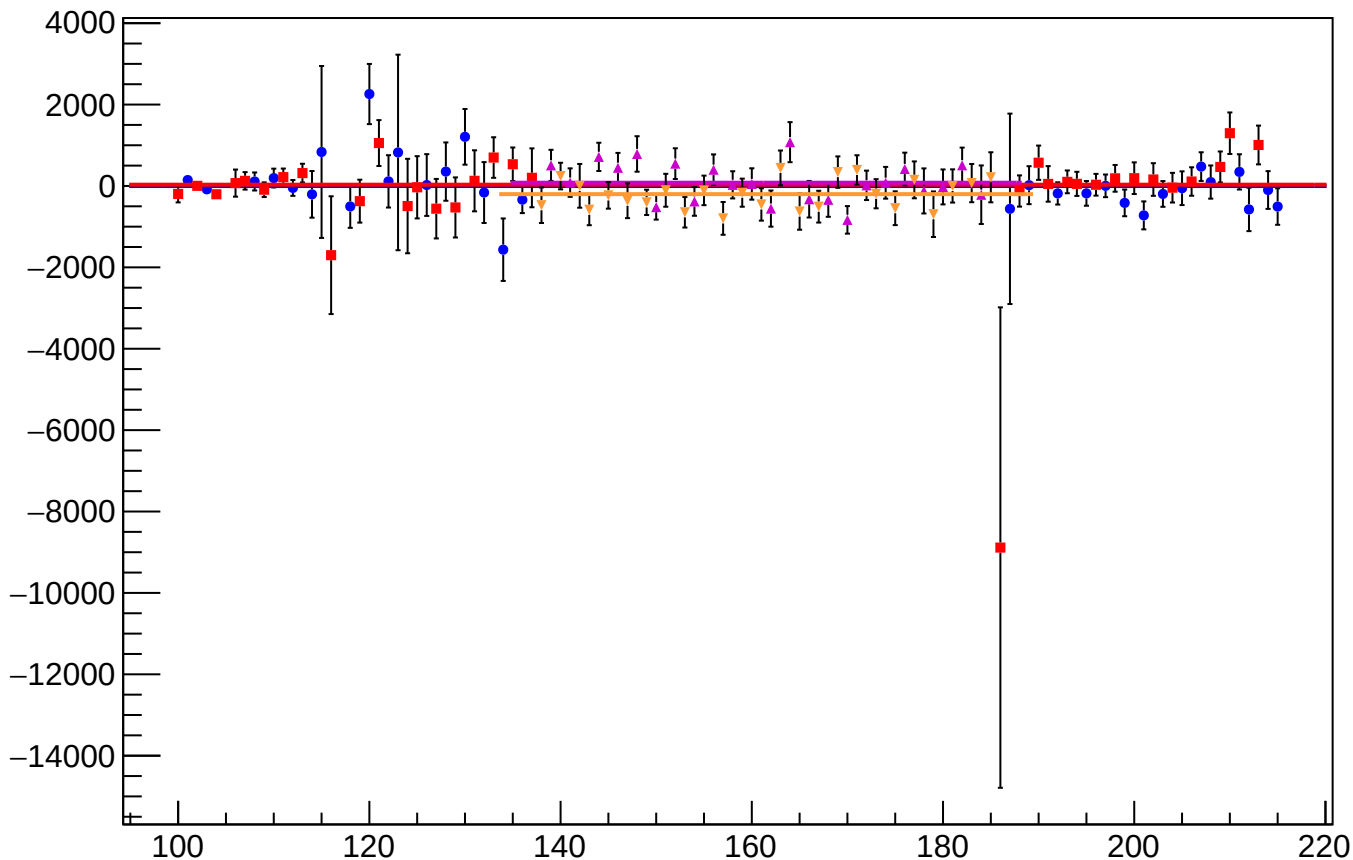
Right: 59.749 $\pm$ 0.007 χ^2 /NDF: 2278008.1/65

In: 62.173 $\pm$ 0.008 χ^2 /NDF: 1178802.5/54

Out: 61.615 $\pm$ 0.007 χ^2 /NDF: 2041443.7/58

All: 61.890 $\pm$ 0.005 χ^2 /NDF: 3223037.7/113

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -1.603 ± 45.447 χ^2/NDF : 36.7/31

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 31.100 ± 46.578 χ^2/NDF : 36.2/33

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

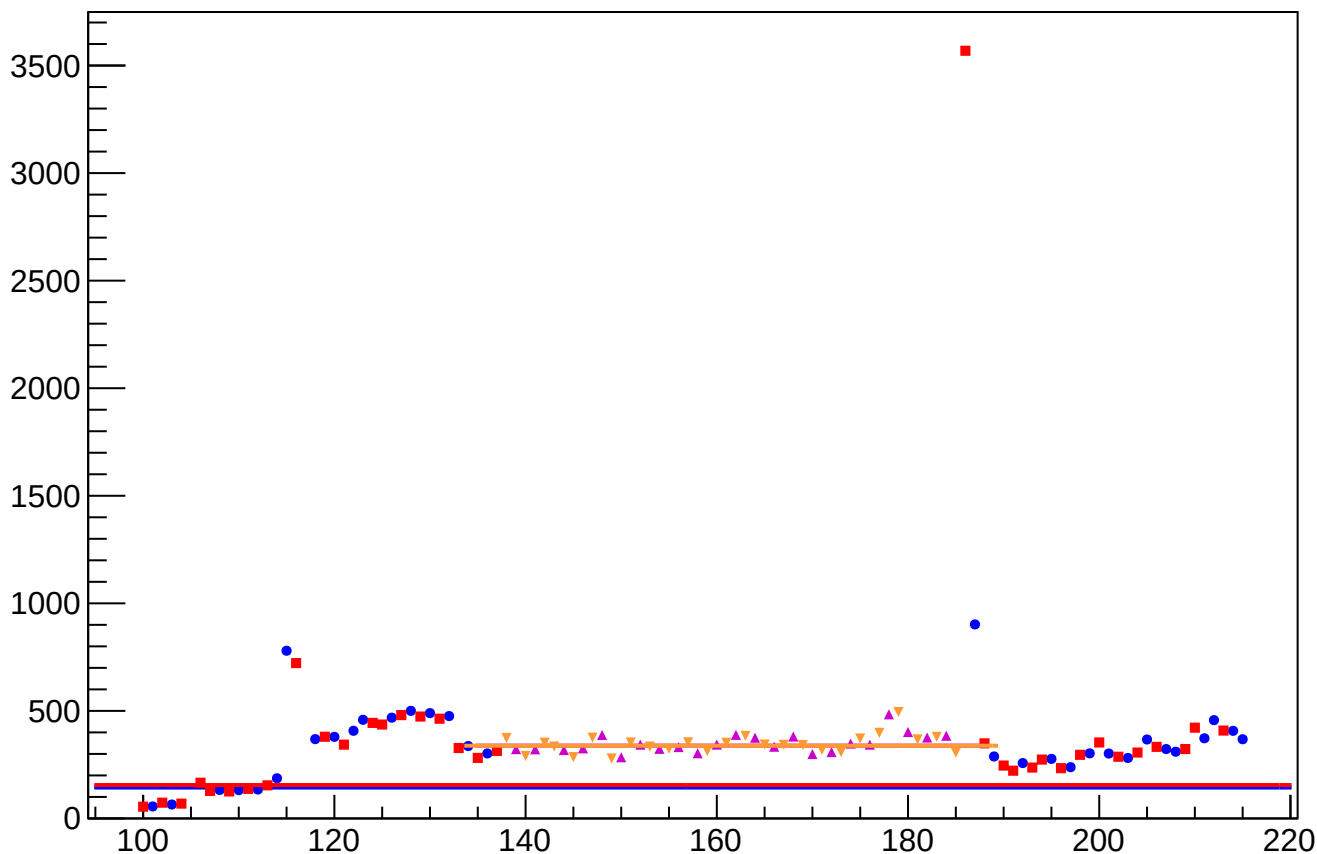
Right: 14.346 ± 32.528 χ^2/NDF : 73.1/65

In: 17.647 ± 39.725 χ^2/NDF : 70.9/54

Out: -28.180 ± 40.195 χ^2/NDF : 62.2/58

All: -4.997 ± 28.254 χ^2/NDF : 133.7/113

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 143.673+/-0.032 χ^2/NDF : 13911617.6/31

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 155.308+/-0.033 χ^2/NDF : 11739411.0/33

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

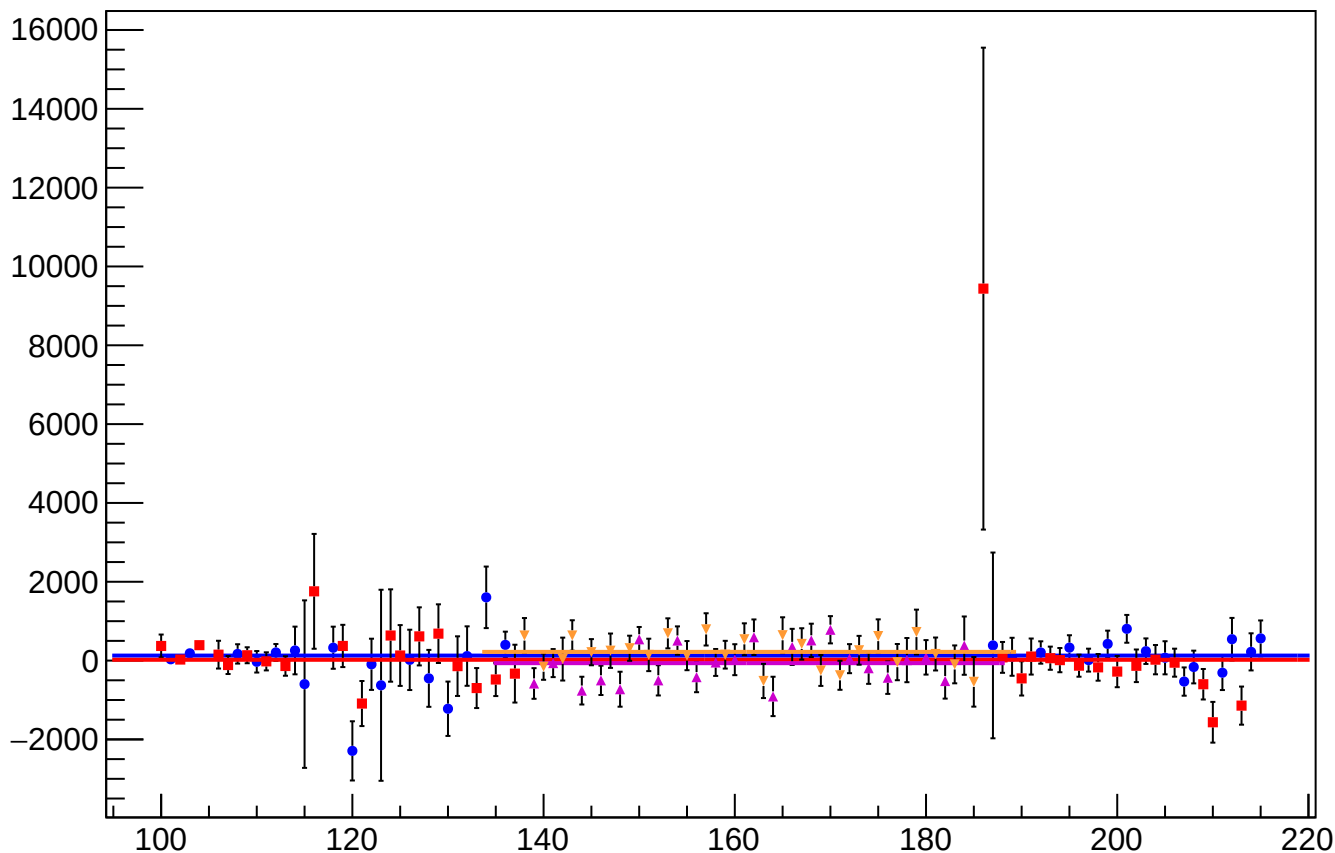
Right: 149.347+/-0.023 χ^2/NDF : 25714963.1/65

In: 189.657+/-0.028 χ^2/NDF : 23027090.3/54

Out: 201.985+/-0.028 χ^2/NDF : 20104732.1/58

All: 195.749+/-0.020 χ^2/NDF : 43226991.3/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 126.861 $\pm$ 53.228 χ^2 /NDF: 32.8/31

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 20.267 $\pm$ 51.836 χ^2 /NDF: 45.9/33

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

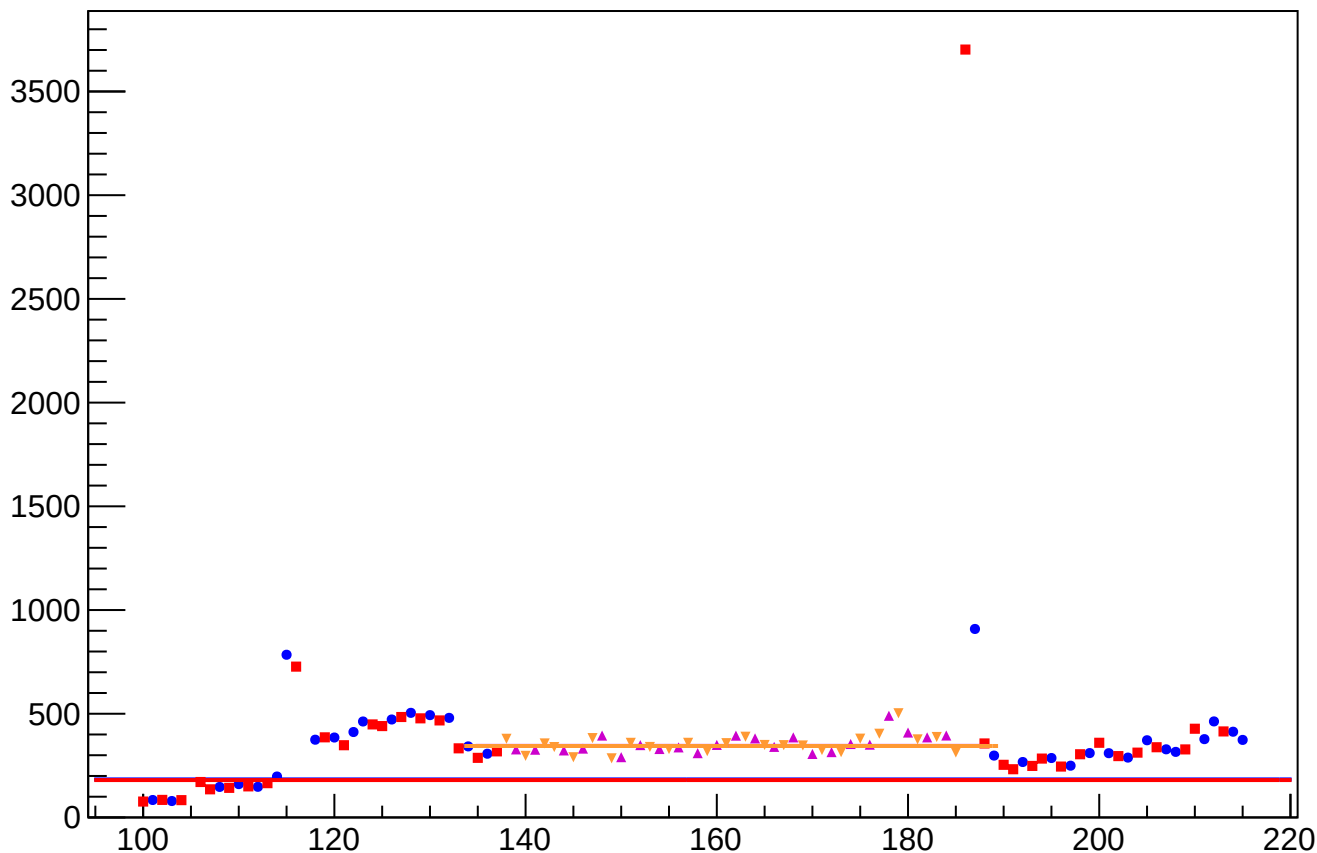
Right: 72.151 $\pm$ 37.136 χ^2 /NDF: 80.8/65

In: 71.104 $\pm$ 44.856 χ^2 /NDF:70.6/54

Out: 78.594 $\pm$ 43.664 χ^2 /NDF:70.0/58

All: 74.950 $\pm$ 31.288 χ^2 /NDF: 140.6/113

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 183.397 $\pm$ 0.038 χ^2 /NDF: 10462289.0/31

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 180.261 $\pm$ 0.037 χ^2 /NDF: 9837796.5/33

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

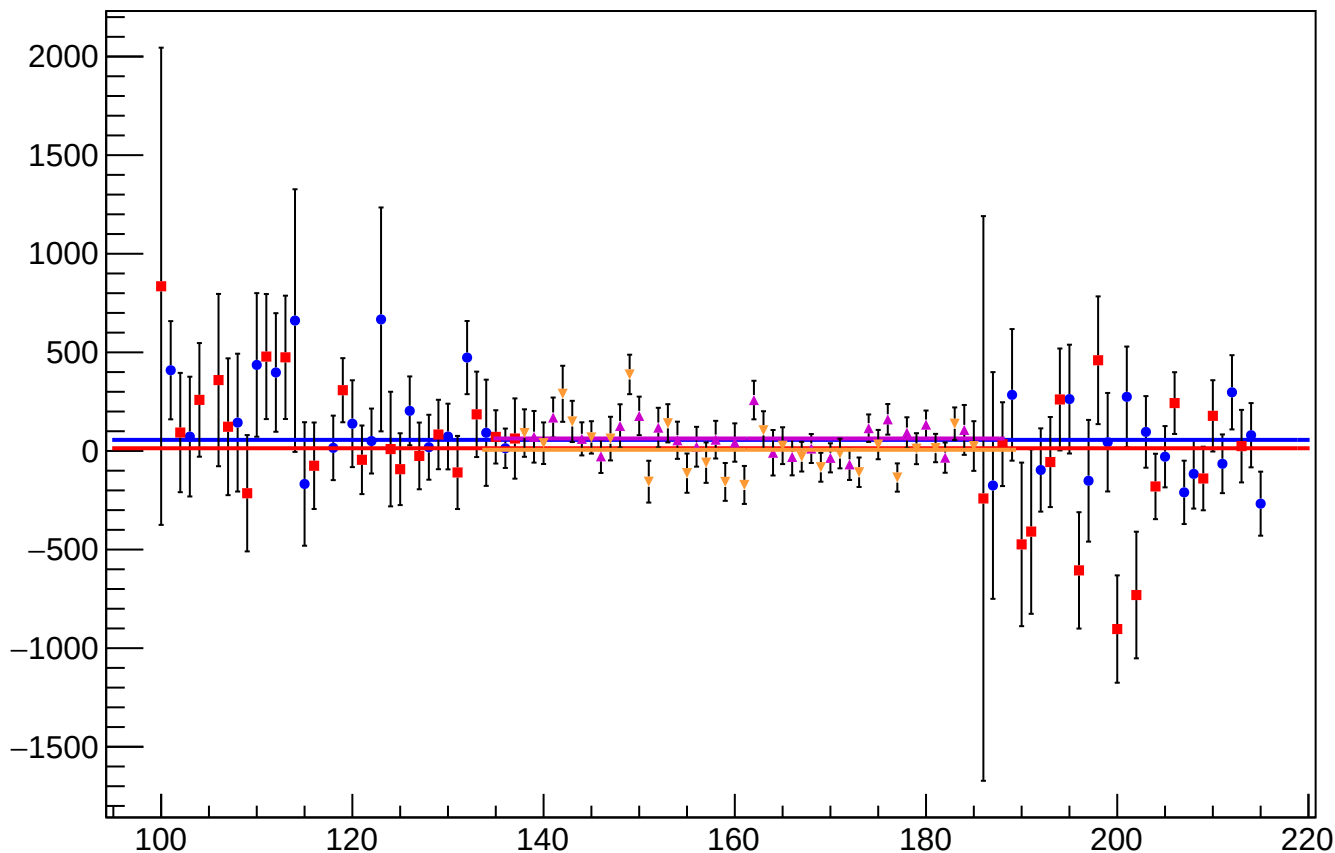
Right: 181.787 $\pm$ 0.026 χ^2 /NDF: 20303648.8/65

In: 230.247 $\pm$ 0.032 χ^2 /NDF:16235445.5/54

Out: 227.966 $\pm$ 0.031 χ^2 /NDF:16158272.0/58

All: 229.076 $\pm$ 0.022 χ^2 /NDF: 32396373.3/11

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 56.225 $\pm$ 35.481 χ^2 /NDF: 26.4/31

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 13.743 $\pm$ 38.138 χ^2 /NDF: 44.0/33

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

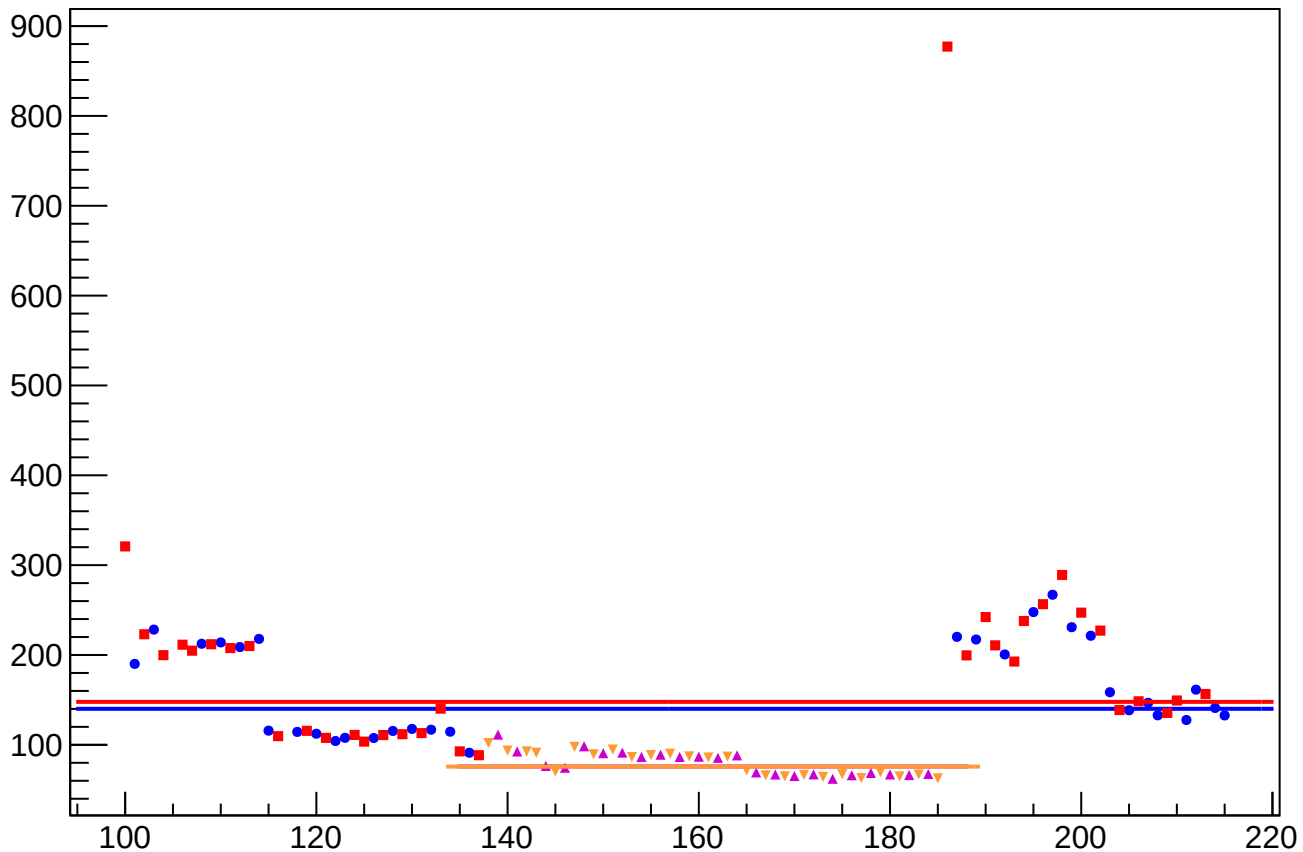
Right: 36.515 $\pm$ 25.977 χ^2 /NDF: 71.1/65

In: 61.778 $\pm$ 16.367 χ^2 /NDF:46.3/54

Out: 7.415 $\pm$ 16.211 χ^2 /NDF:90.1/58

All: 34.337 $\pm$ 11.518 χ^2 /NDF: 141.9/113

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.100 $\pm$ 0.025 χ^2 /NDF: 2915061.6/31

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.835 $\pm$ 0.027 χ^2 /NDF: 3890549.9/33

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

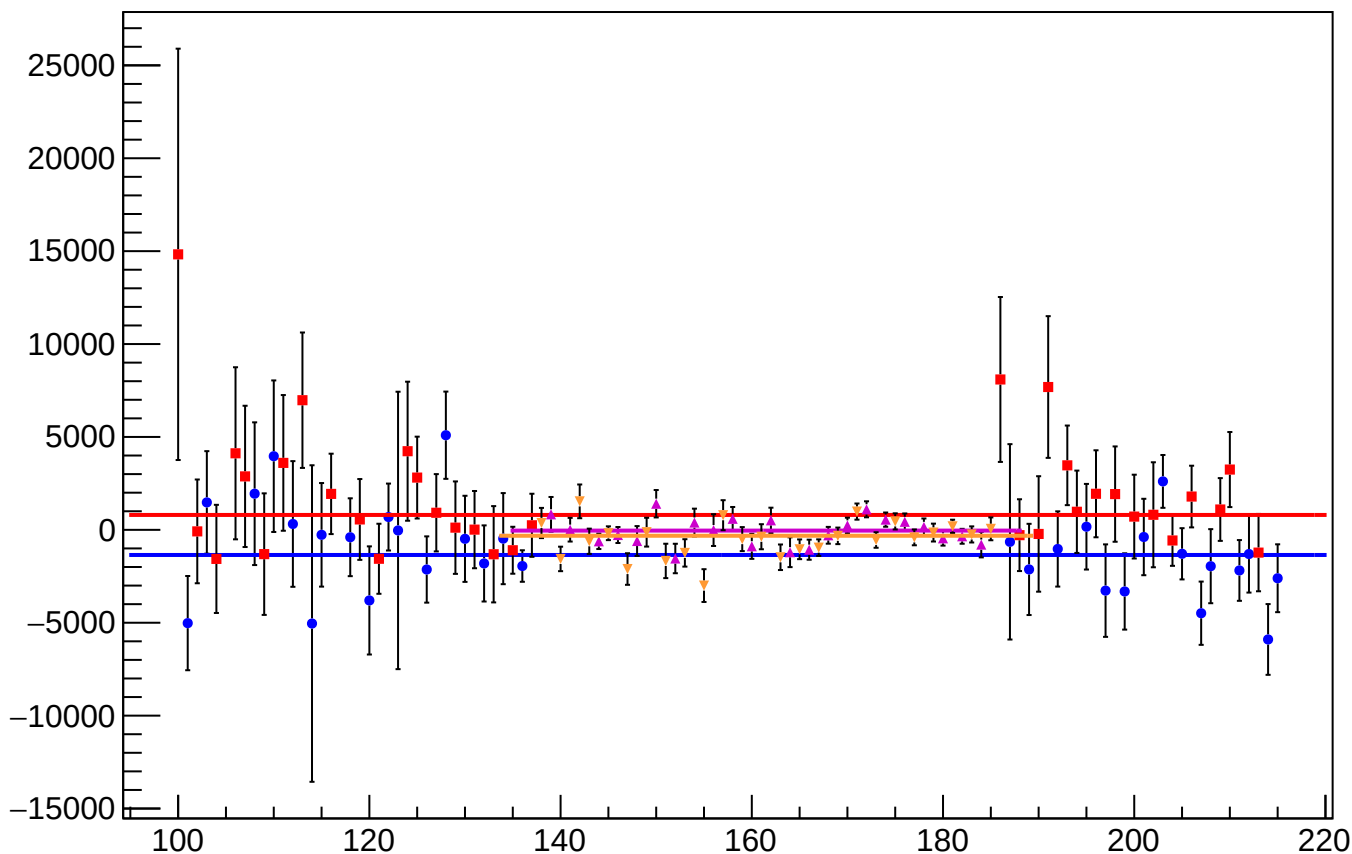
Right: 143.689 $\pm$ 0.018 χ^2 /NDF: 6849722.2/65

In: 89.568 $\pm$ 0.012 χ^2 /NDF:8899593.5/54

Out: 88.769 $\pm$ 0.011 χ^2 /NDF:10683682.9/58

All: 89.165 $\pm$ 0.008 χ^2 /NDF: 19585683.5/113

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1352.502 $\pm$ 356.630 χ^2 /NDF: 36.9/31

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 801.855 $\pm$ 388.095 χ^2 /NDF: 26.0/33

Left In: -40.473 $\pm$ 110.252 χ^2 /NDF:34.7/22

Left: -182.115 $\pm$ 77.156 χ^2 /NDF: 88.0/47

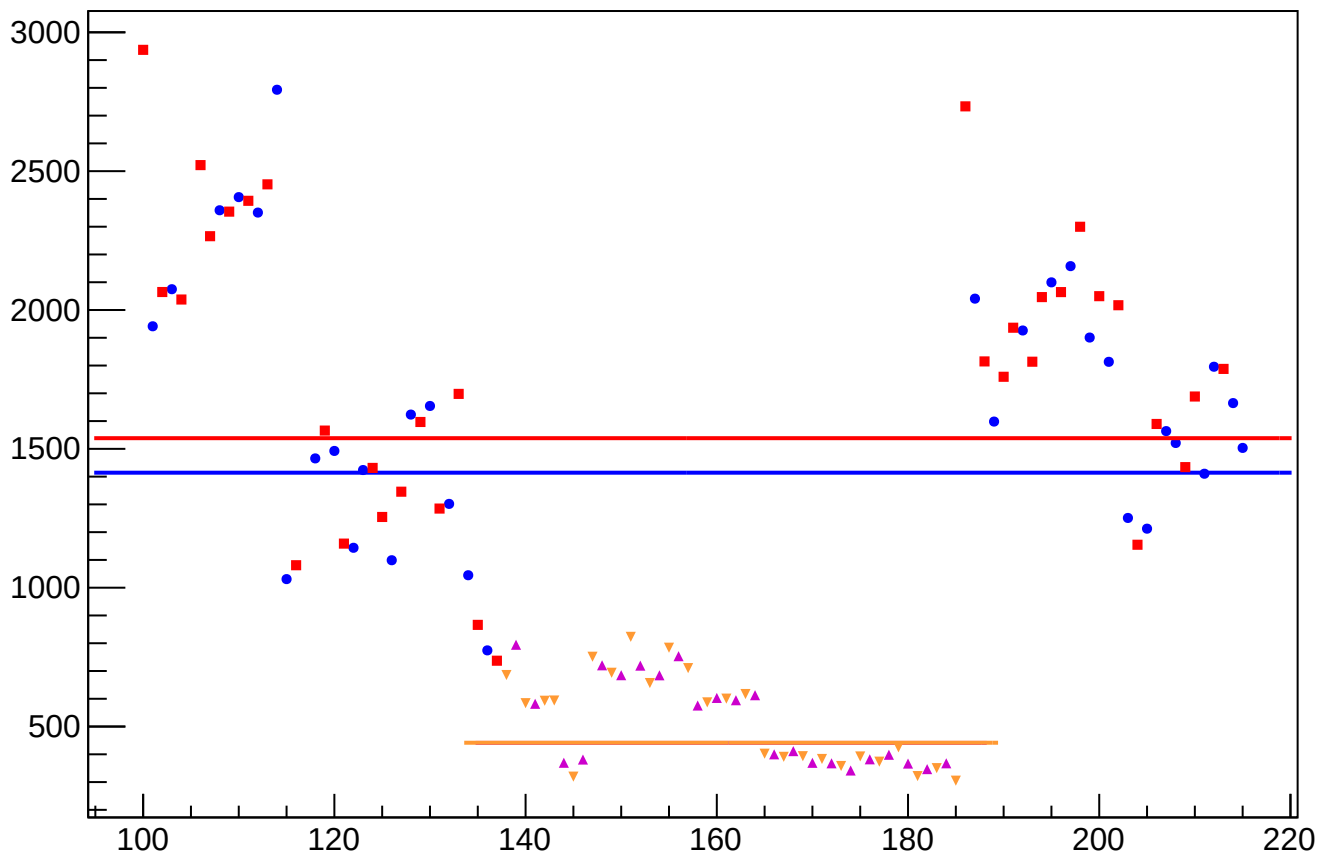
Right: -366.185 $\pm$ 262.596 χ^2 /NDF: 79.6/65

In: -154.930 $\pm$ 105.334 χ^2 /NDF:84.0/54

Out: -237.551 $\pm$ 104.059 χ^2 /NDF:83.8/58

All: -196.744 $\pm$ 74.027 χ^2 /NDF: 168.1/113

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1414.151+/-0.252 χ^2/NDF : 2930116.6/31

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1538.422+/-0.274 χ^2/NDF : 2959283.2/33

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

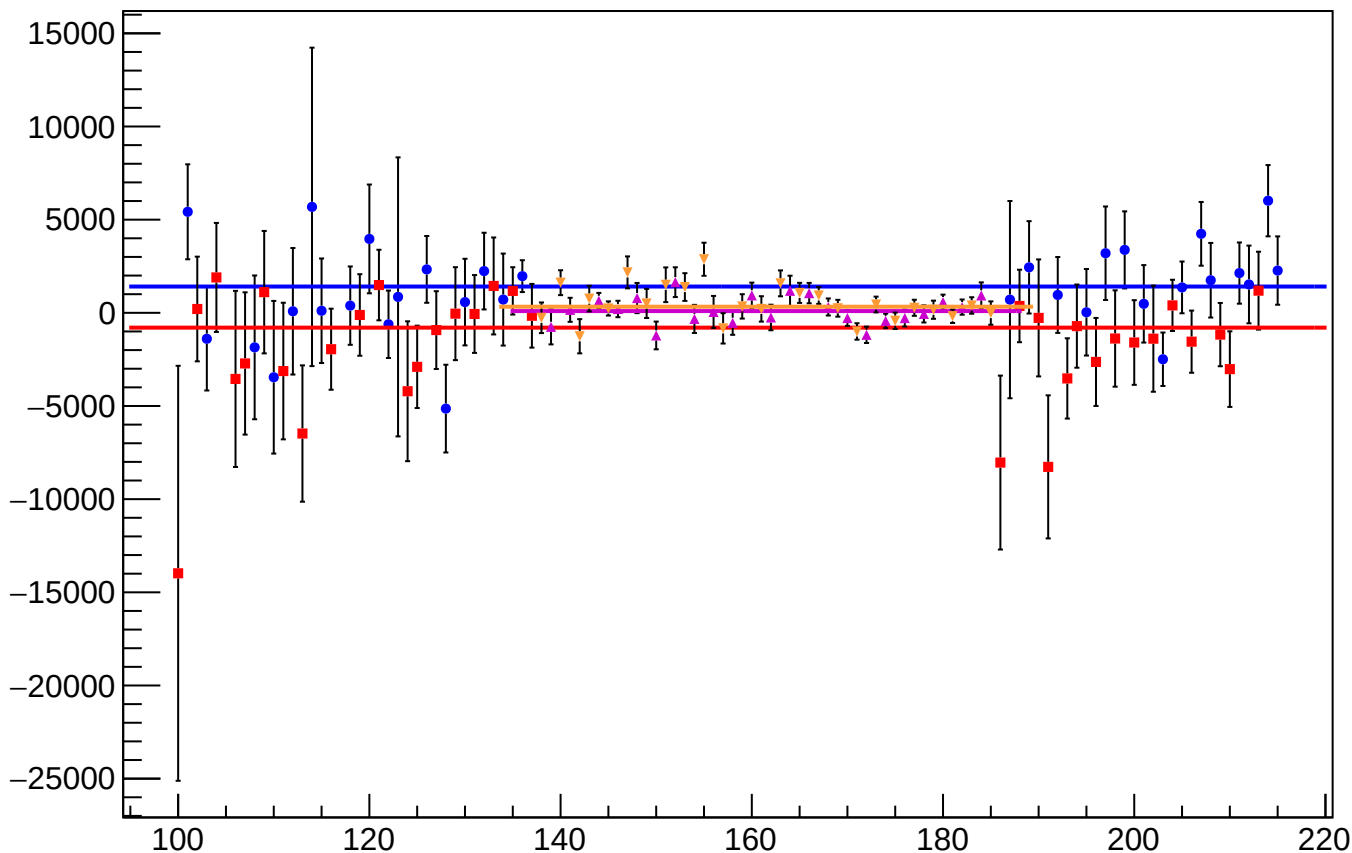
Right: 1471.045+/-0.186 χ^2/NDF : 6000581.5/65

In: 525.902+/-0.074 χ^2/NDF : 19119836.7/54

Out: 520.531+/-0.074 χ^2/NDF : 20952166.3/58

All: 523.184+/-0.052 χ^2/NDF : 40074634.9/11

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1410.846 $\pm$ 358.790 χ^2 /NDF: 35.9/31

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -795.113 $\pm$ 390.488 χ^2 /NDF: 25.3/33

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

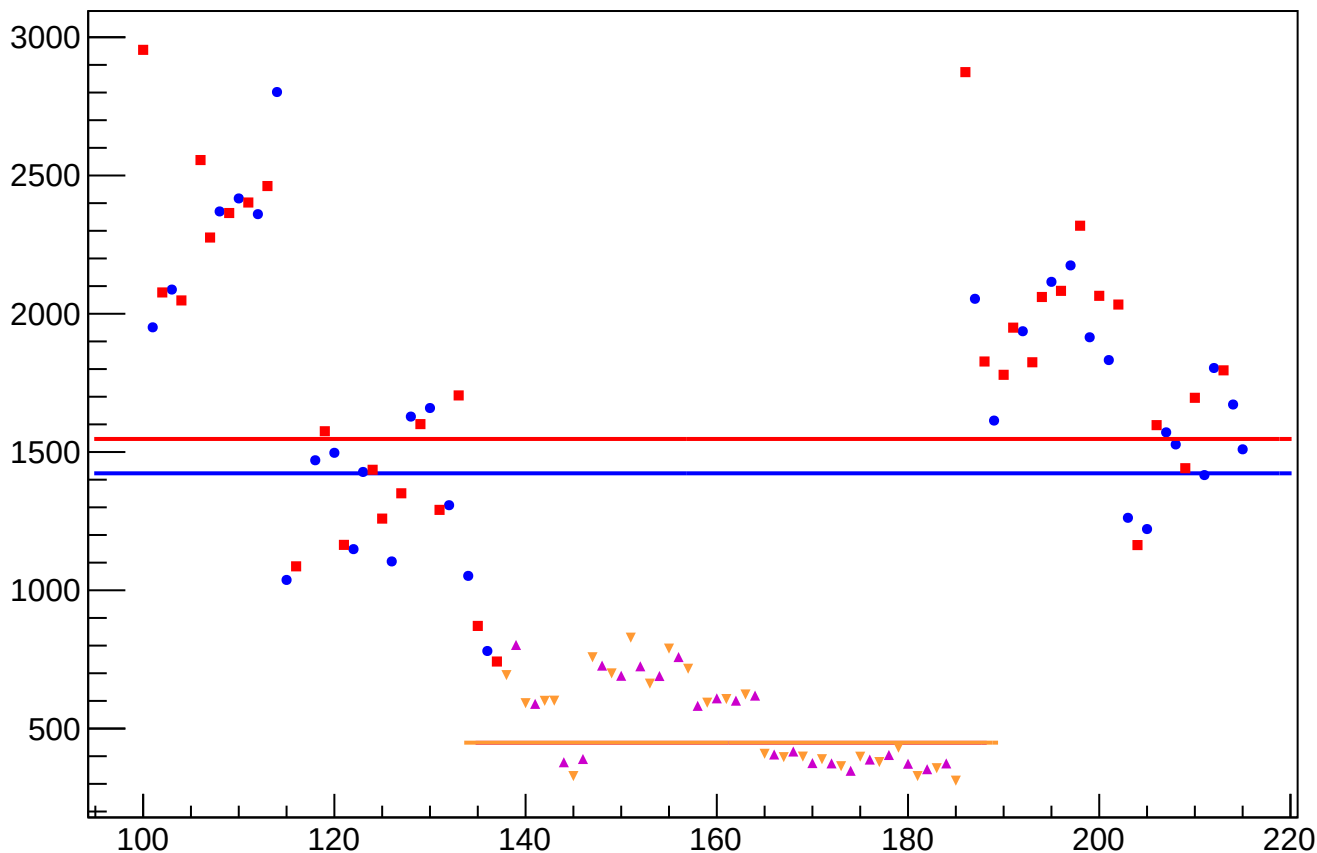
Right: 401.020 $\pm$ 264.199 χ^2 /NDF: 78.5/65

In: 210.220 $\pm$ 106.877 χ^2 /NDF: 81.5/54

Out: 246.444 $\pm$ 105.583 χ^2 /NDF: 80.7/58

All: 228.553 $\pm$ 75.112 χ^2 /NDF: 162.3/113

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1423.011 $\pm$ 0.254 χ^2 /NDF: 2918524.0/31

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF:3090476.2/24

Right Out: 1547.254 $\pm$ 0.276 χ^2 /NDF: 2978304.8/33

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

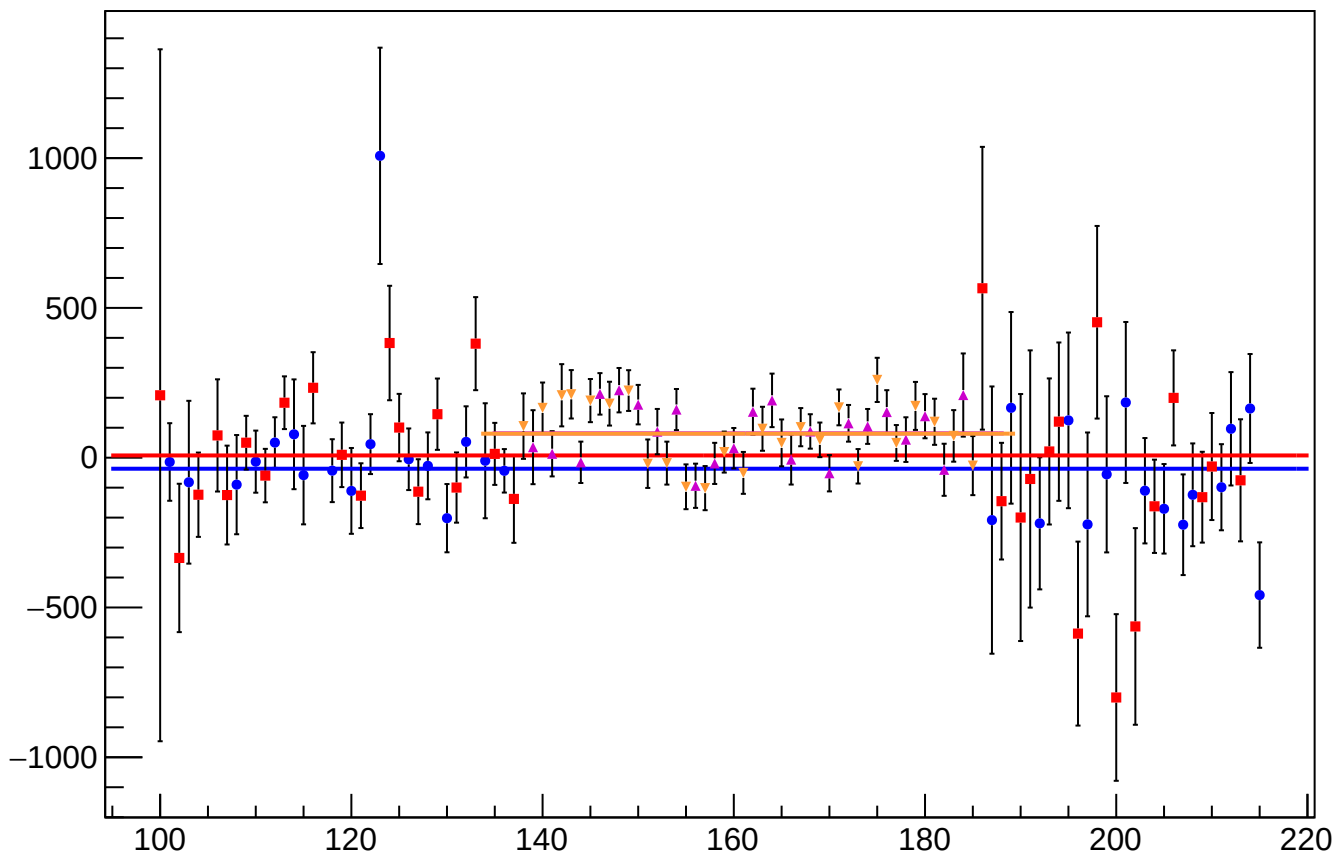
Right: 1479.886 $\pm$ 0.187 χ^2 /NDF: 6006613.7/65

In: 534.796 $\pm$ 0.076 χ^2 /NDF:18906429.0/54

Out: 529.308 $\pm$ 0.075 χ^2 /NDF:20732237.1/58

All: 532.019 $\pm$ 0.053 χ^2 /NDF: 39641334.6/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -36.832 ± 25.251 χ^2/NDF : 26.5/31

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 7.504 ± 25.264 χ^2/NDF : 51.6/33

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

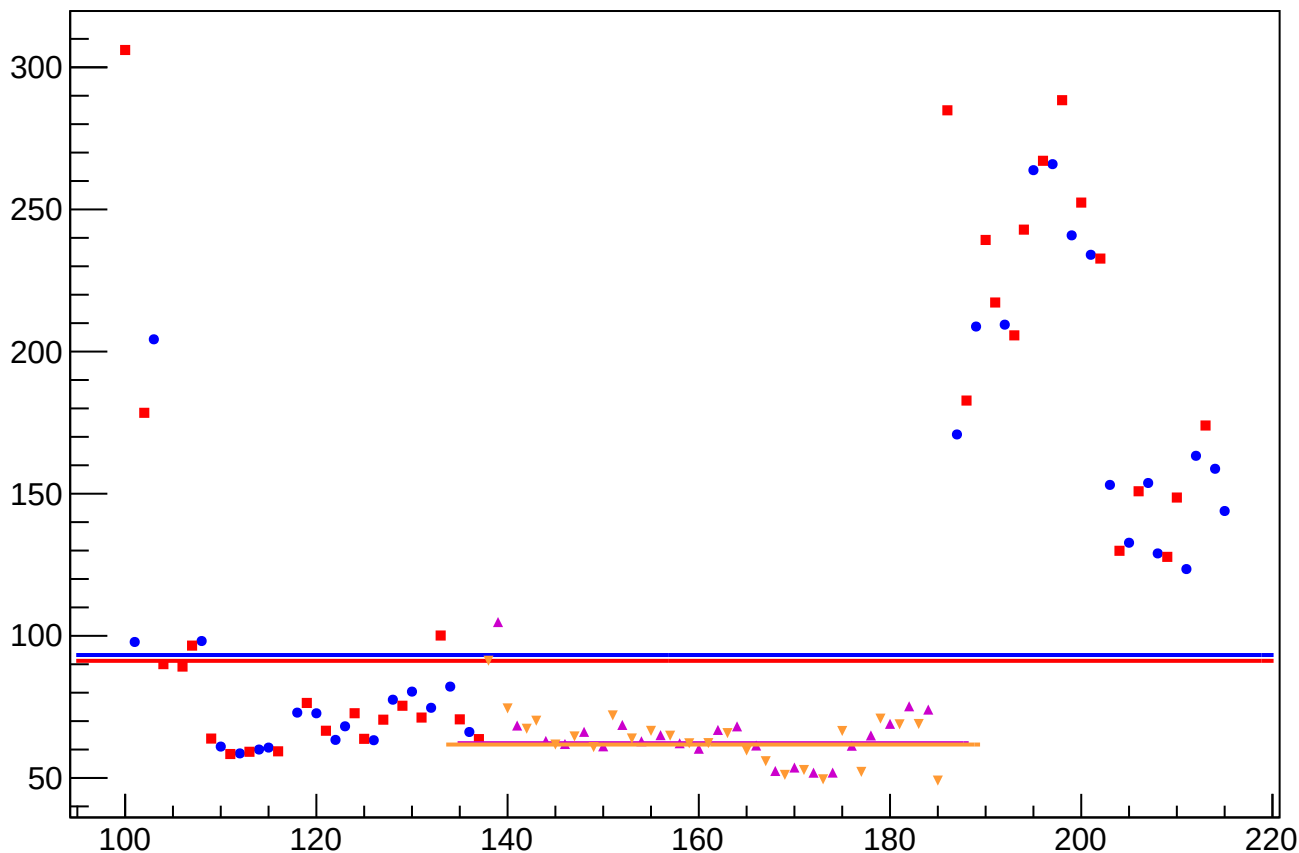
Right: -14.676 ± 17.860 χ^2/NDF : 79.6/65

In: 50.060 ± 12.963 χ^2/NDF : 77.9/54

Out: 61.993 ± 12.636 χ^2/NDF : 106.3/58

All: 56.179 ± 9.048 χ^2/NDF : 184.6/113

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 93.253+/-0.018 χ^2/NDF : 6769138.2/31

Left Out: 61.761+/-0.010 χ^2/NDF : 645535.0/24

Right Out: 91.206+/-0.018 χ^2/NDF : 7607237.1/33

Left In: 62.250+/-0.011 χ^2/NDF : 591085.1/22

Left: 61.997+/-0.007 χ^2/NDF : 1237703.8/47

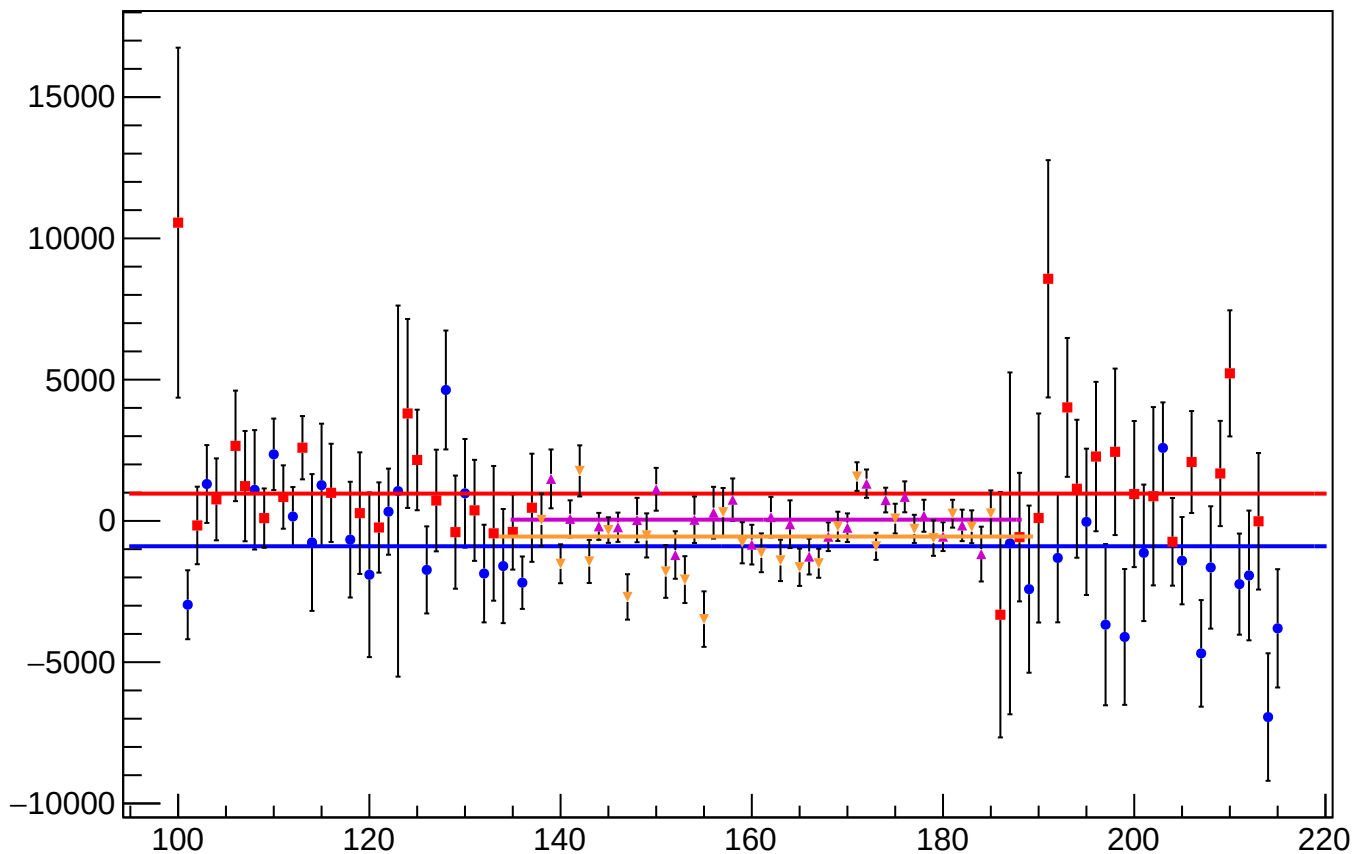
Right: 92.230+/-0.013 χ^2/NDF : 14382947.0/65

In: 70.421+/-0.009 χ^2/NDF : 9580691.8/54

Out: 69.127+/-0.009 χ^2/NDF : 10289843.4/58

All: 69.757+/-0.006 χ^2/NDF : 19880758.1/113

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -896.618 ± 316.323 $\chi^2/\text{NDF}: 48.3/31$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 966.558 ± 318.087 $\chi^2/\text{NDF}: 22.9/33$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

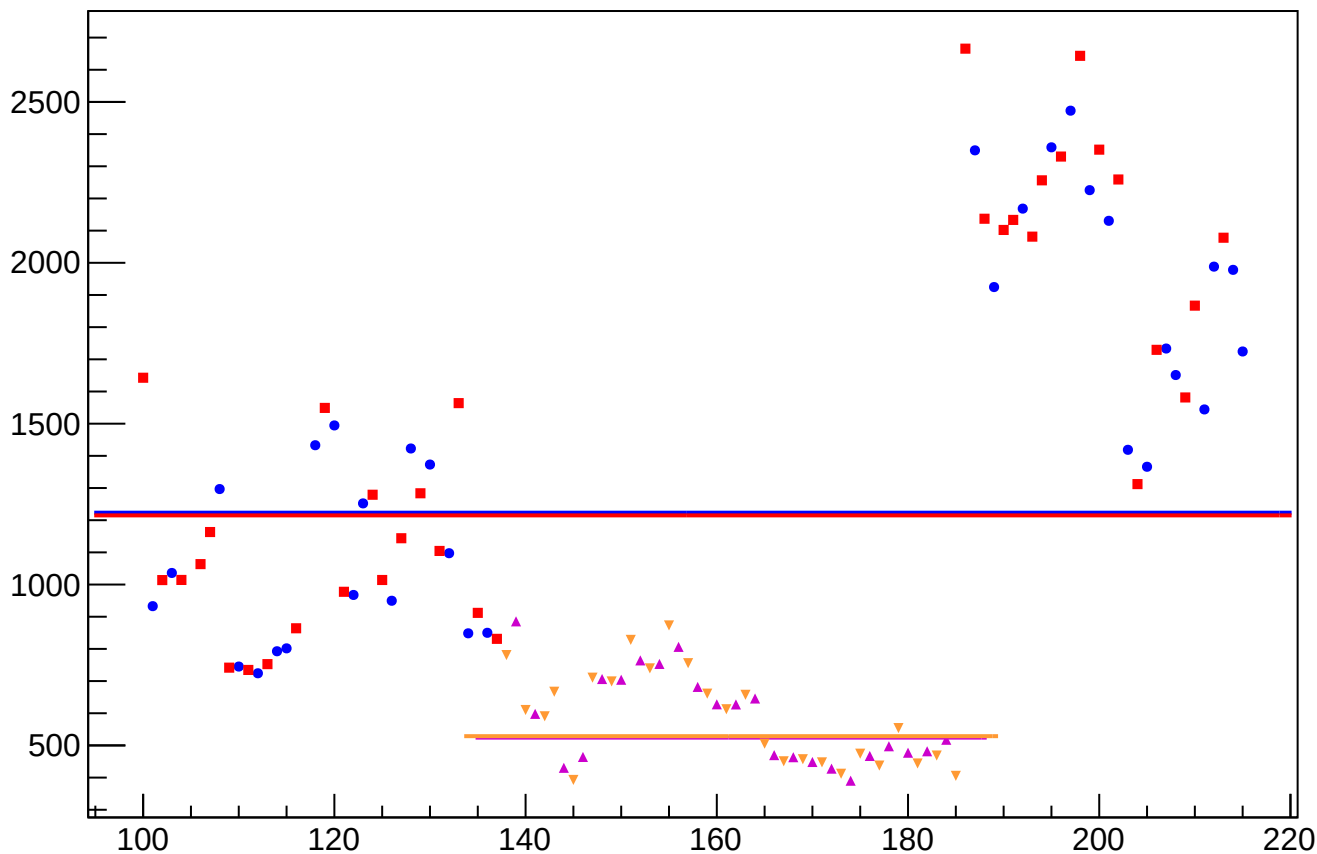
Right: 29.791 ± 224.295 $\chi^2/\text{NDF}: 88.4/65$

In: -89.800 ± 119.524 $\chi^2/\text{NDF}: 85.5/54$

Out: -343.704 ± 117.931 $\chi^2/\text{NDF}: 107.9/58$

All: -218.455 ± 83.947 $\chi^2/\text{NDF}: 195.6/113$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1223.344+/-0.224 χ^2/NDF : 4445338.5/31

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1214.971+/-0.225 χ^2/NDF : 5137513.7/33

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

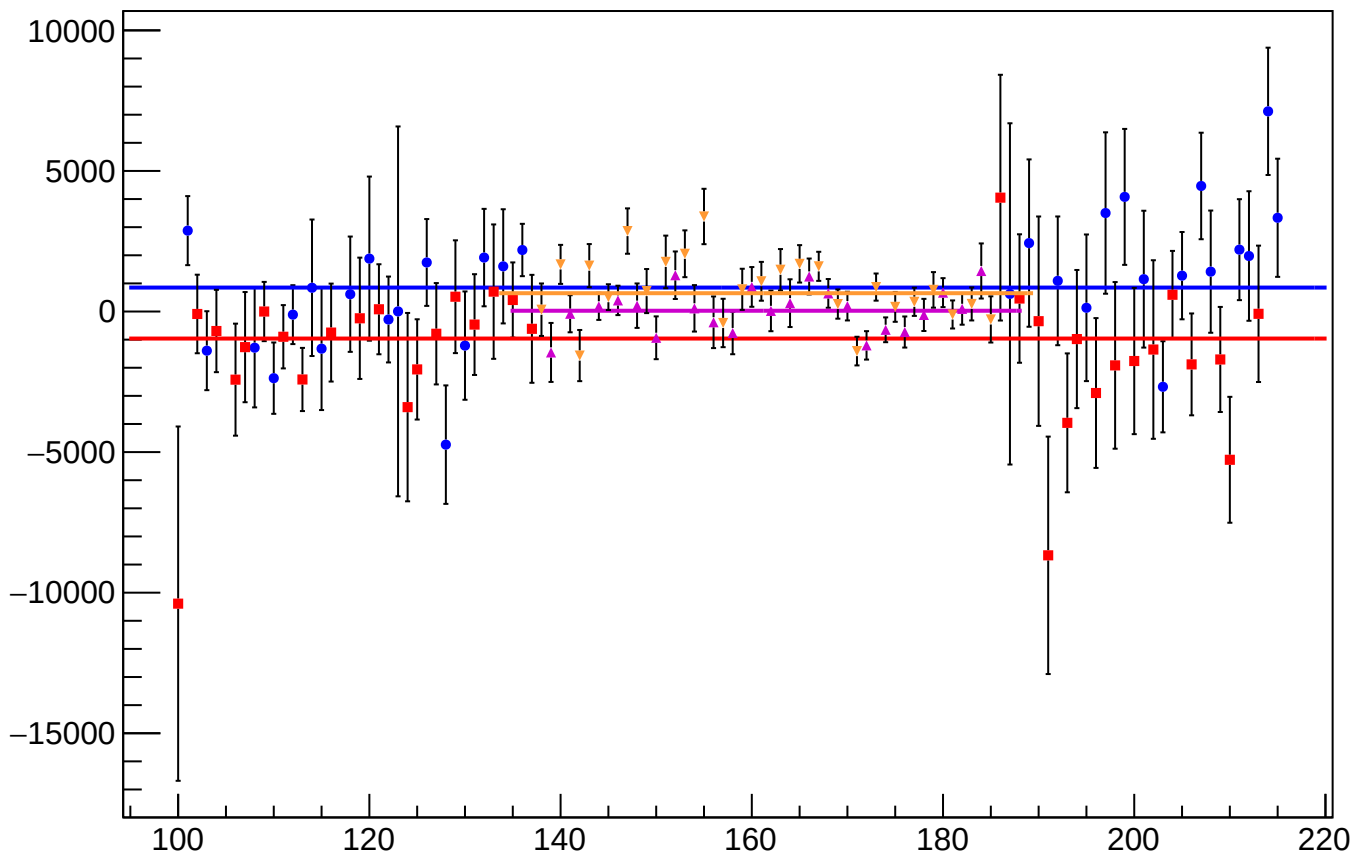
Right: 1219.181+/-0.159 χ^2/NDF : 9583548.8/65

In: 624.078+/-0.085 χ^2/NDF : 14535174.3/54

Out: 623.064+/-0.083 χ^2/NDF : 15150285.6/58

All: 623.564+/-0.059 χ^2/NDF : 29685532.9/11

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 851.828+/-317.790 χ^2/NDF : 47.8/31

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -961.400+/-319.688 χ^2/NDF : 21.9/33

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

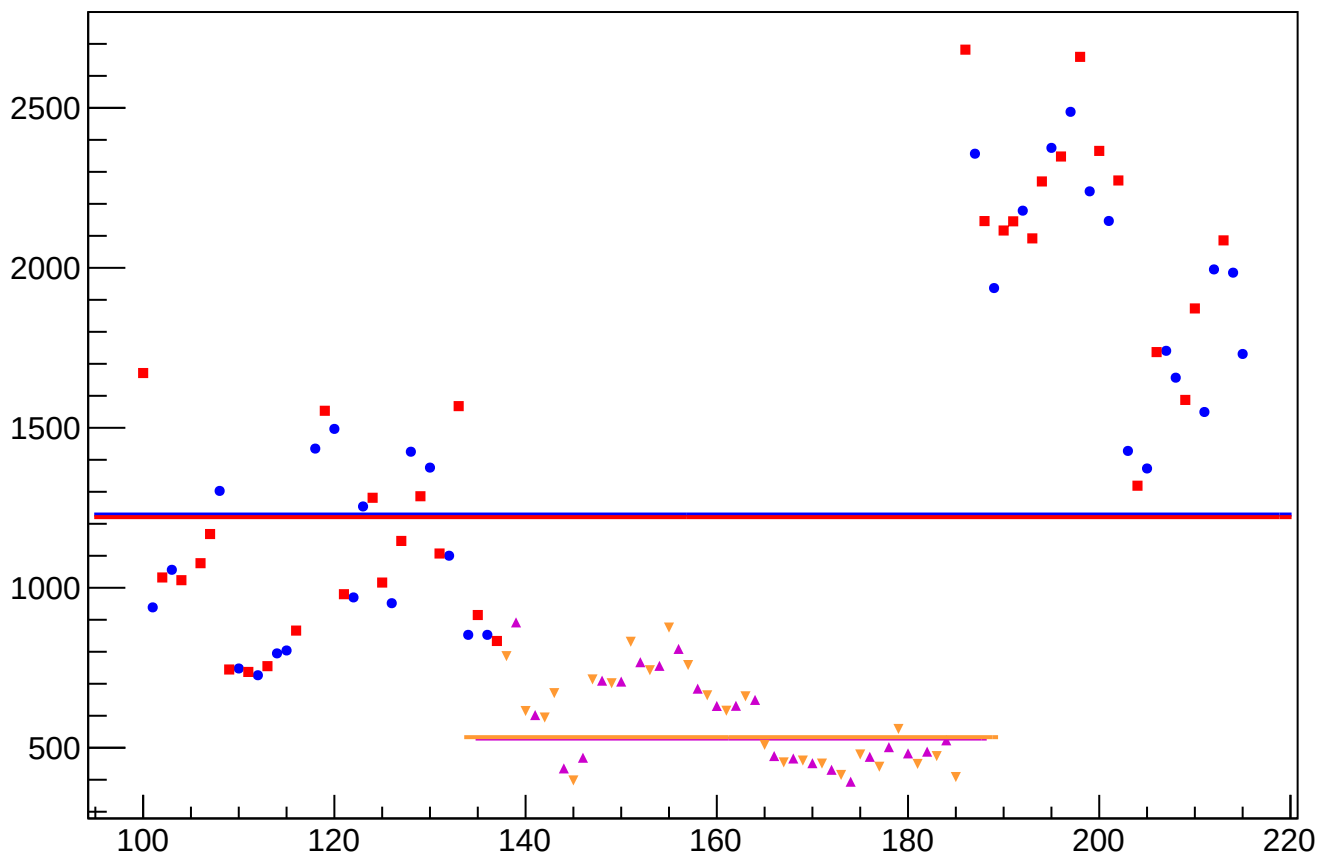
Right: -49.389+/-225.380 χ^2/NDF : 85.9/65

In: 145.853+/-120.422 χ^2/NDF : 82.0/54

Out: 428.825+/-118.798 χ^2/NDF : 105.0/58

All: 289.260+/-84.571 χ^2/NDF : 189.8/113

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1228.934 $\pm$ 0.225 χ^2 /NDF: 4449683.5/31

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1220.776 $\pm$ 0.226 χ^2 /NDF: 5144996.5/33

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

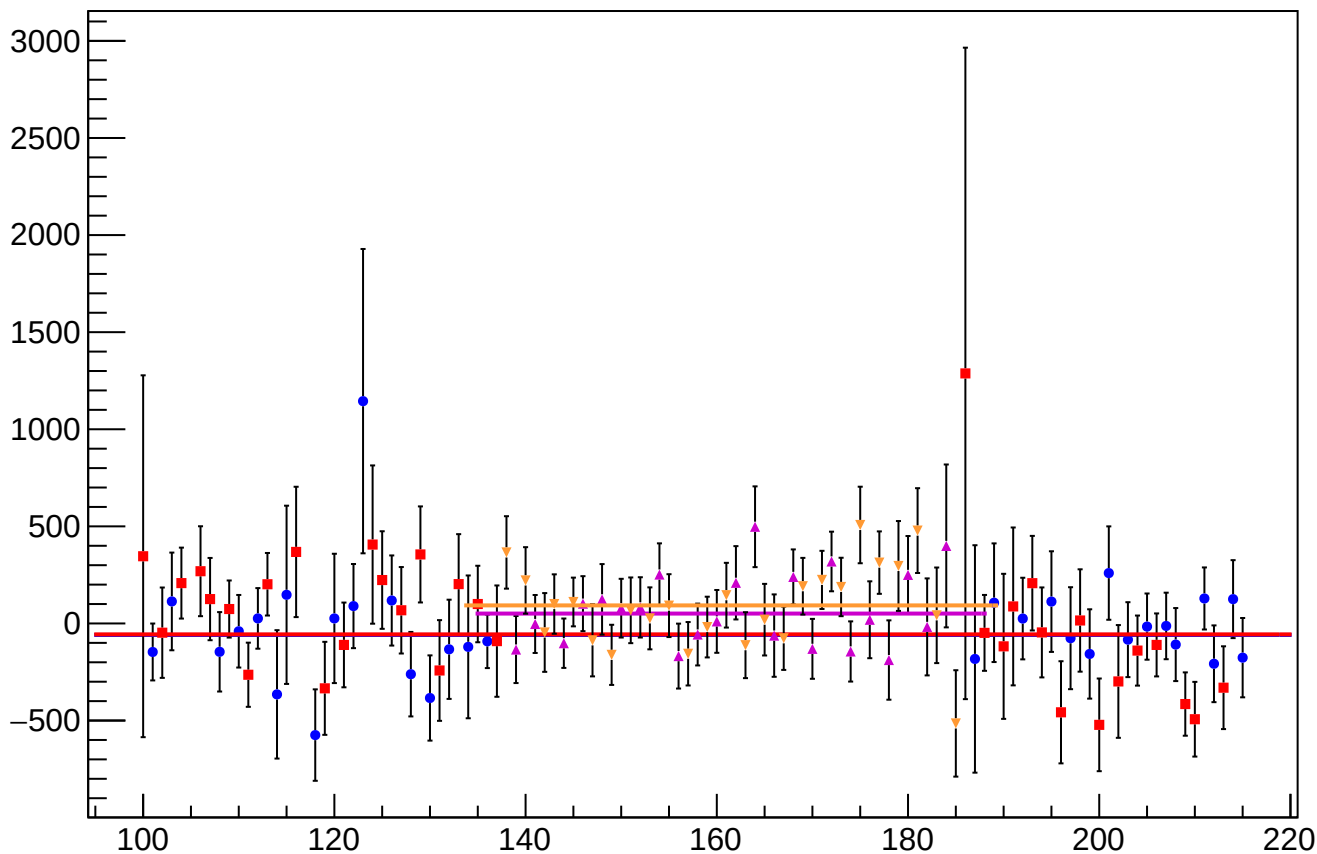
Right: 1224.879 $\pm$ 0.159 χ^2 /NDF: 9595335.1/65

In: 629.243 $\pm$ 0.085 χ^2 /NDF:14454362.8/54

Out: 628.028 $\pm$ 0.084 χ^2 /NDF:15073860.8/58

All: 628.627 $\pm$ 0.060 χ^2 /NDF: 29528326.8/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -59.198 ± 37.939 χ^2/NDF : 20.1/31

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -56.315 ± 38.502 χ^2/NDF : 41.6/33

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

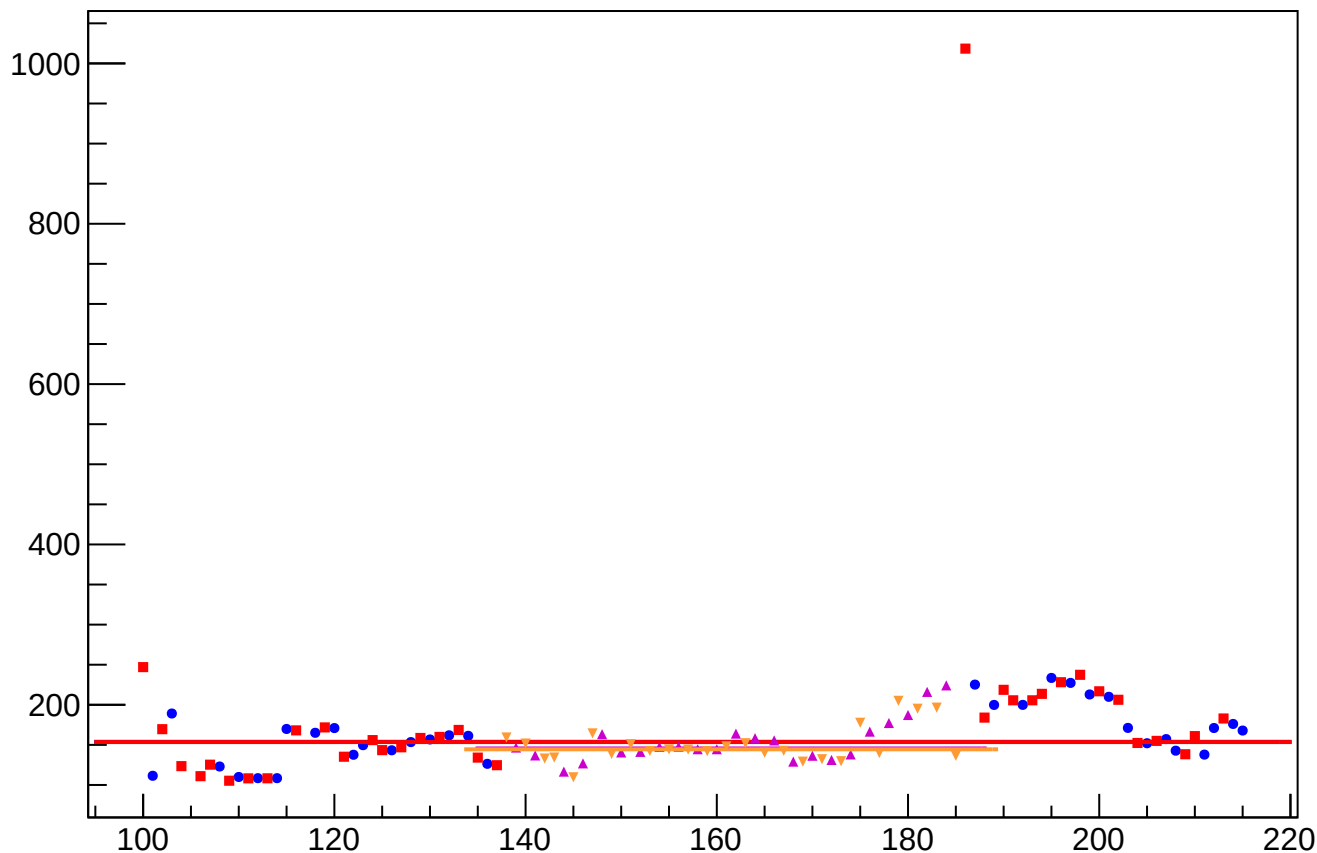
Right: -57.778 ± 27.024 χ^2/NDF : 61.7/65

In: -0.158 ± 25.836 χ^2/NDF : 48.1/54

Out: 27.459 ± 25.508 χ^2/NDF : 79.5/58

All: 13.827 ± 18.152 χ^2/NDF : 128.1/113

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 153.810 $\pm$ 0.027 χ^2 /NDF: 1529964.5/31

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 153.524 $\pm$ 0.027 χ^2 /NDF: 2322637.7/33

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

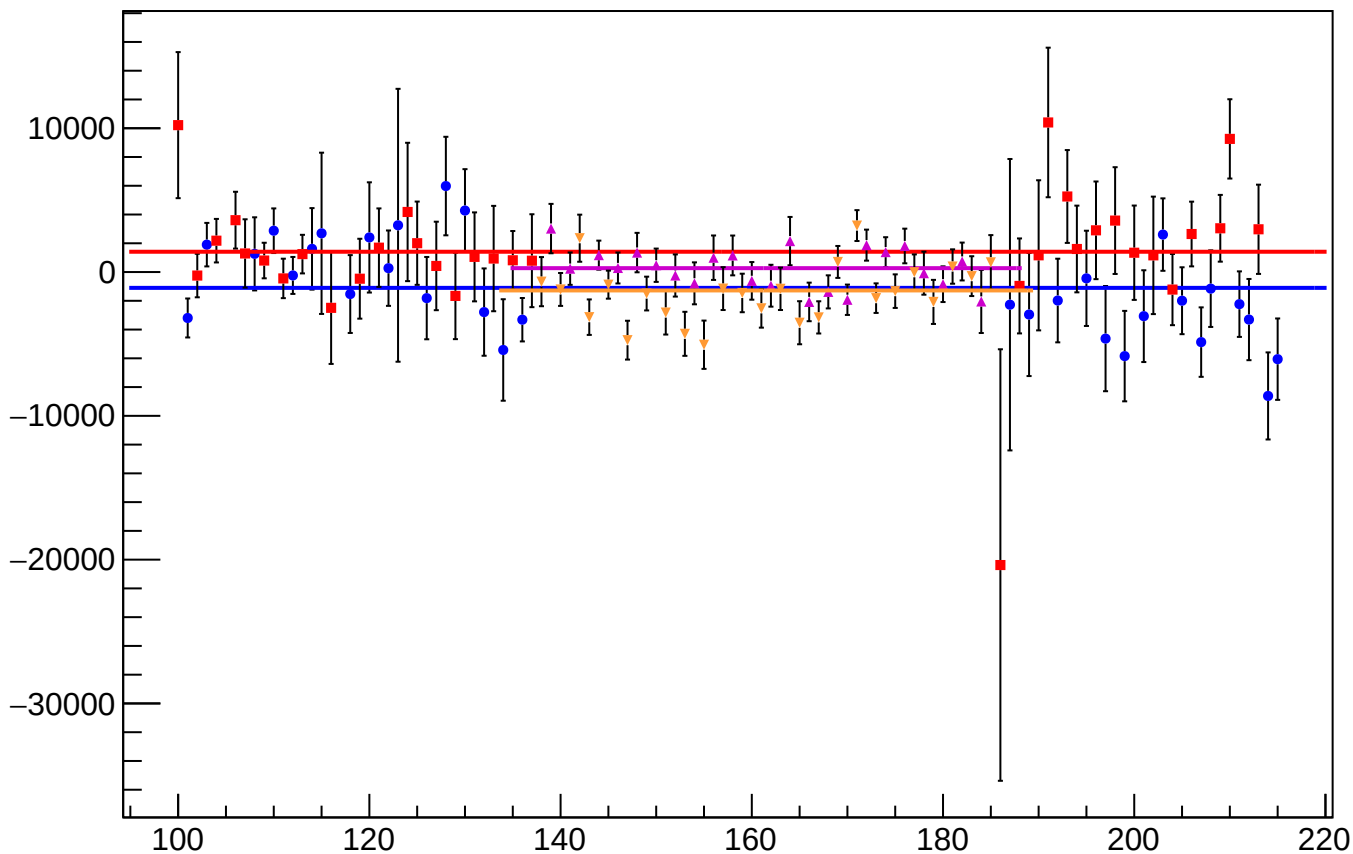
Right: 153.669 $\pm$ 0.019 χ^2 /NDF: 3852658.4/65

In: 149.372 $\pm$ 0.018 χ^2 /NDF: 2224526.6/54

Out: 148.447 $\pm$ 0.018 χ^2 /NDF: 3055109.1/58

All: 148.904 $\pm$ 0.013 χ^2 /NDF: 5280935.1/113

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1100.426 $\pm$ 430.959 χ^2 /NDF: 47.5/31

Left Out: -1279.328 $\pm$ 259.299 χ^2 /NDF:55.9/24

Right Out: 1411.791 $\pm$ 415.896 χ^2 /NDF: 28.8/33

Left In: 269.952 $\pm$ 266.245 χ^2 /NDF:24.3/22

Left: -525.161 $\pm$ 185.759 χ^2 /NDF: 97.6/47

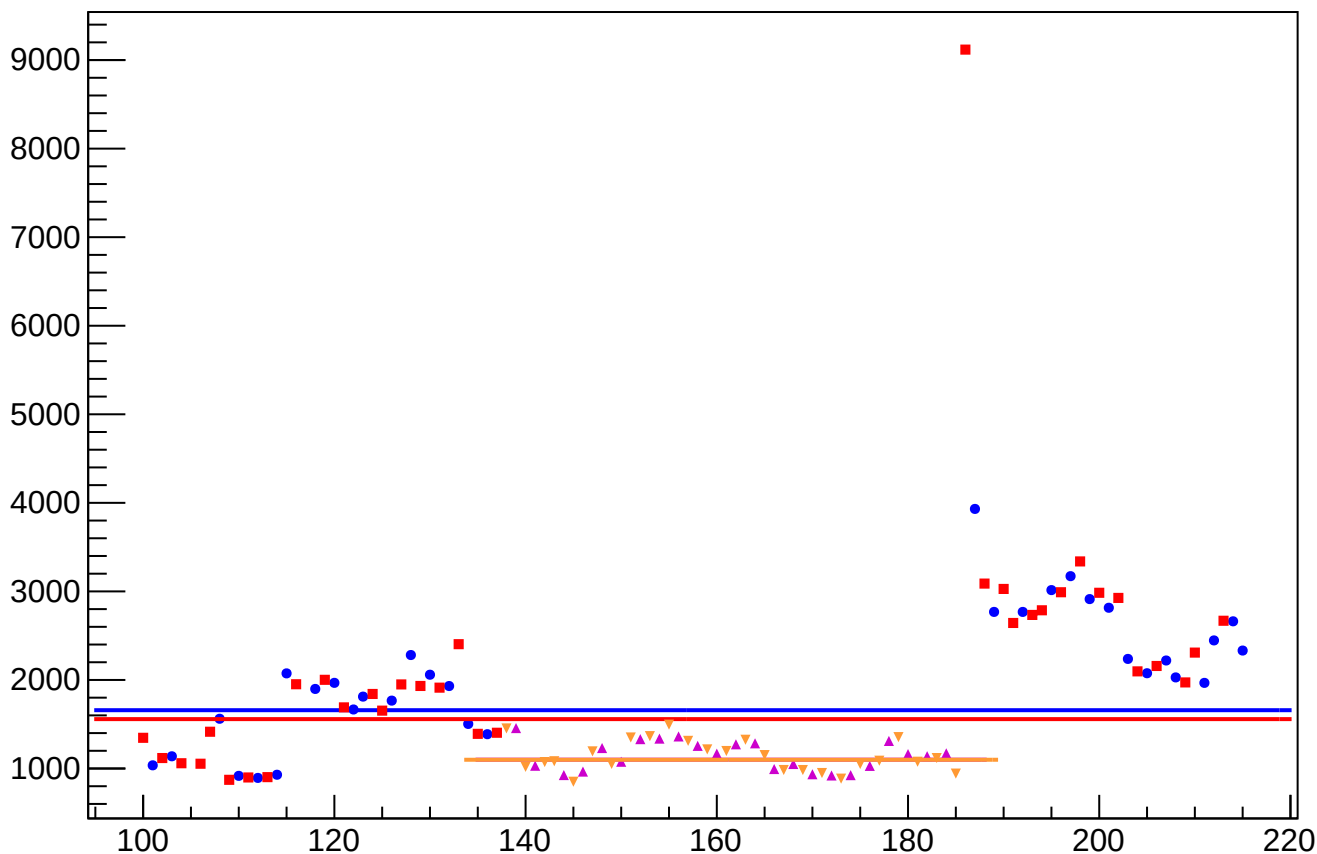
Right: 200.353 $\pm$ 299.266 χ^2 /NDF: 93.8/65

In: -108.601 $\pm$ 226.506 χ^2 /NDF:79.1/54

Out: -526.056 $\pm$ 220.036 χ^2 /NDF:114.9/58

All: -323.375 $\pm$ 157.827 χ^2 /NDF: 195.7/113

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1658.536 $\pm$ 0.305 χ^2 /NDF: 4818251.6/31

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1557.788 $\pm$ 0.294 χ^2 /NDF: 6284857.9/33

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

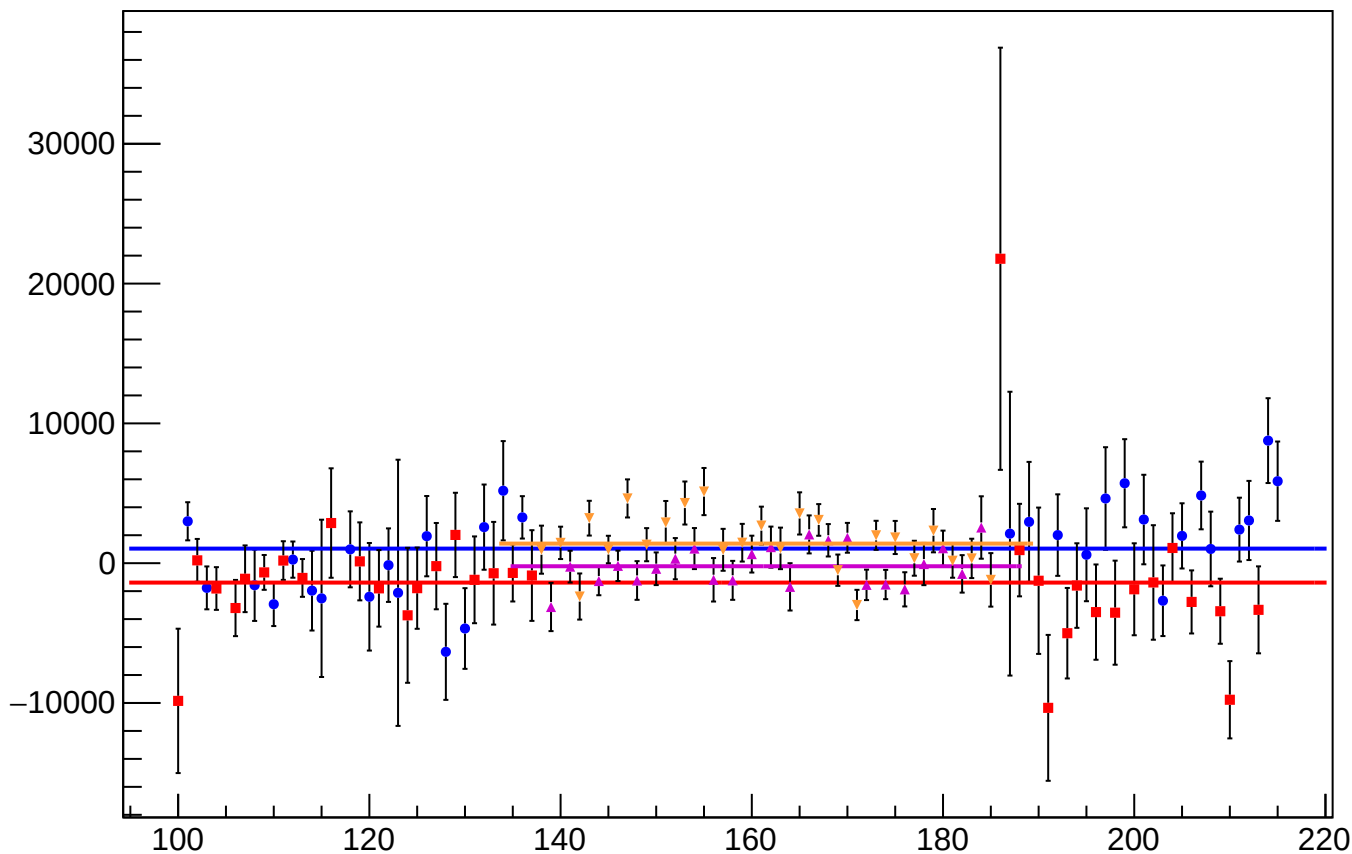
Right: 1606.370 $\pm$ 0.212 χ^2 /NDF: 11159704.2/65

In: 1253.990 $\pm$ 0.160 χ^2 /NDF: 7933153.5/54

Out: 1227.354 $\pm$ 0.156 χ^2 /NDF: 8862434.4/58

All: 1240.286 $\pm$ 0.112 χ^2 /NDF: 16809816.9/113

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1042.519+/-433.227 χ^2/NDF : 47.3/31

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1388.254+/-418.555 χ^2/NDF : 29.3/33

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

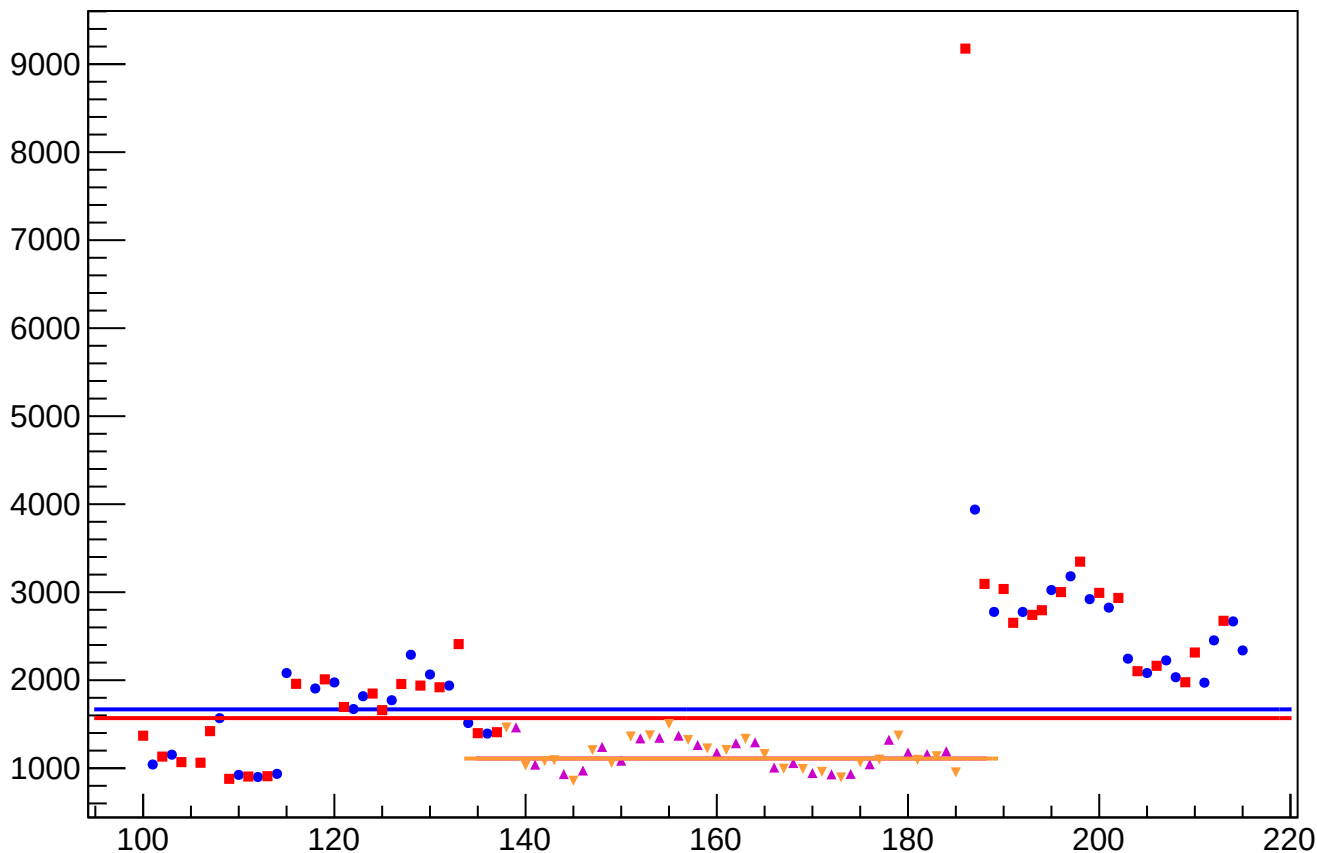
Right: -214.725+/-301.016 χ^2/NDF : 92.8/65

In: 131.471+/-228.439 χ^2/NDF : 78.4/54

Out: 616.219+/-221.960 χ^2/NDF : 113.4/58

All: 380.816+/-159.191 χ^2/NDF : 194.1/113

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1668.726 $\pm$ 0.306 χ^2/NDF : 4767547.3/31

Left Out: 1109.761 $\pm$ 0.185 χ^2/NDF : 812174.9/24

Right Out: 1569.184 $\pm$ 0.296 χ^2/NDF : 6223966.3/33

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

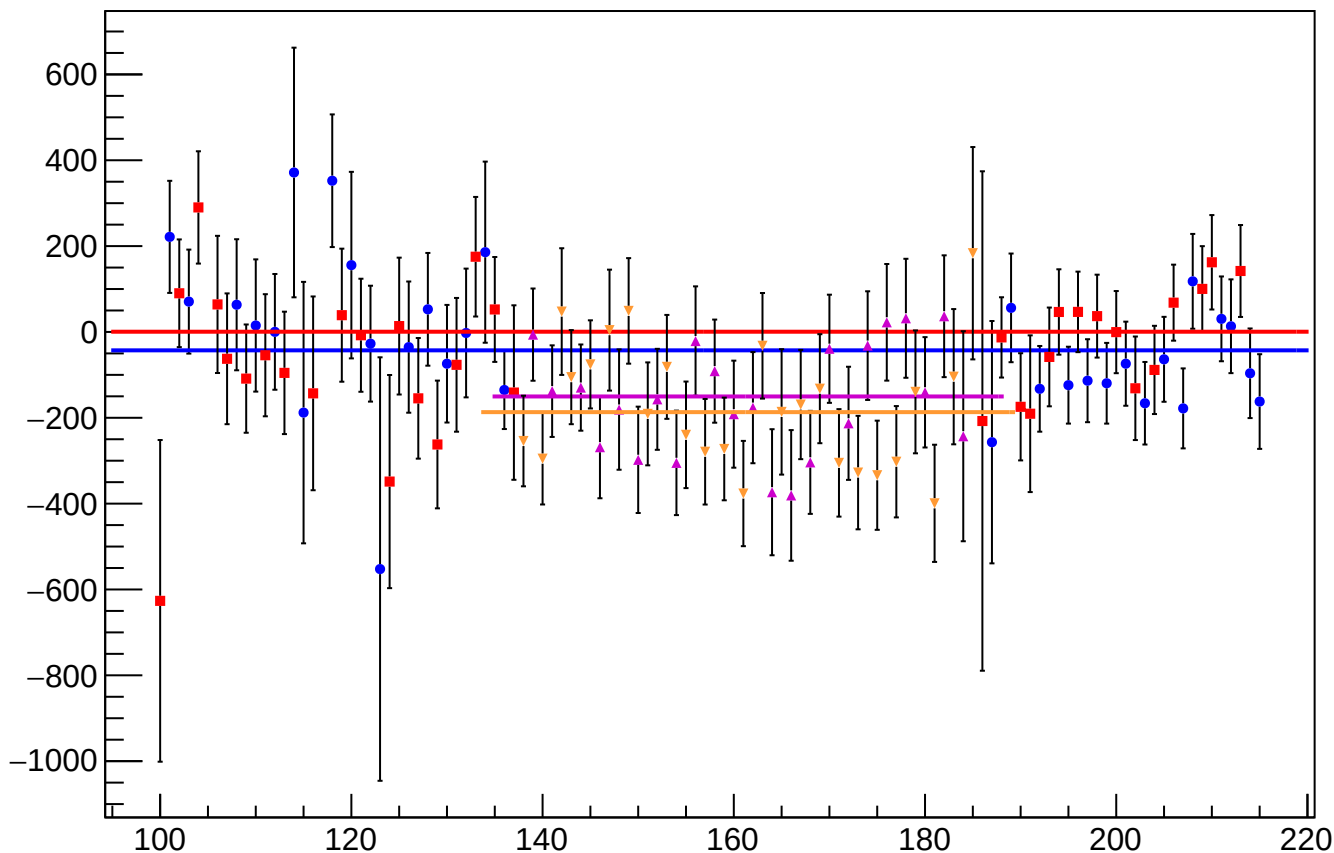
Right: 1617.241 $\pm$ 0.213 χ^2/NDF : 11046125.0/65

In: 1265.740 $\pm$ 0.162 χ^2/NDF : 7834467.9/54

Out: 1238.960 $\pm$ 0.157 χ^2/NDF : 8768139.6/58

All: 1251.965 $\pm$ 0.113 χ^2/NDF : 16616745.8/100

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -42.874 ± 21.590 χ^2/NDF : 31.6/31

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 0.529 ± 21.788 χ^2/NDF : 30.7/33

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

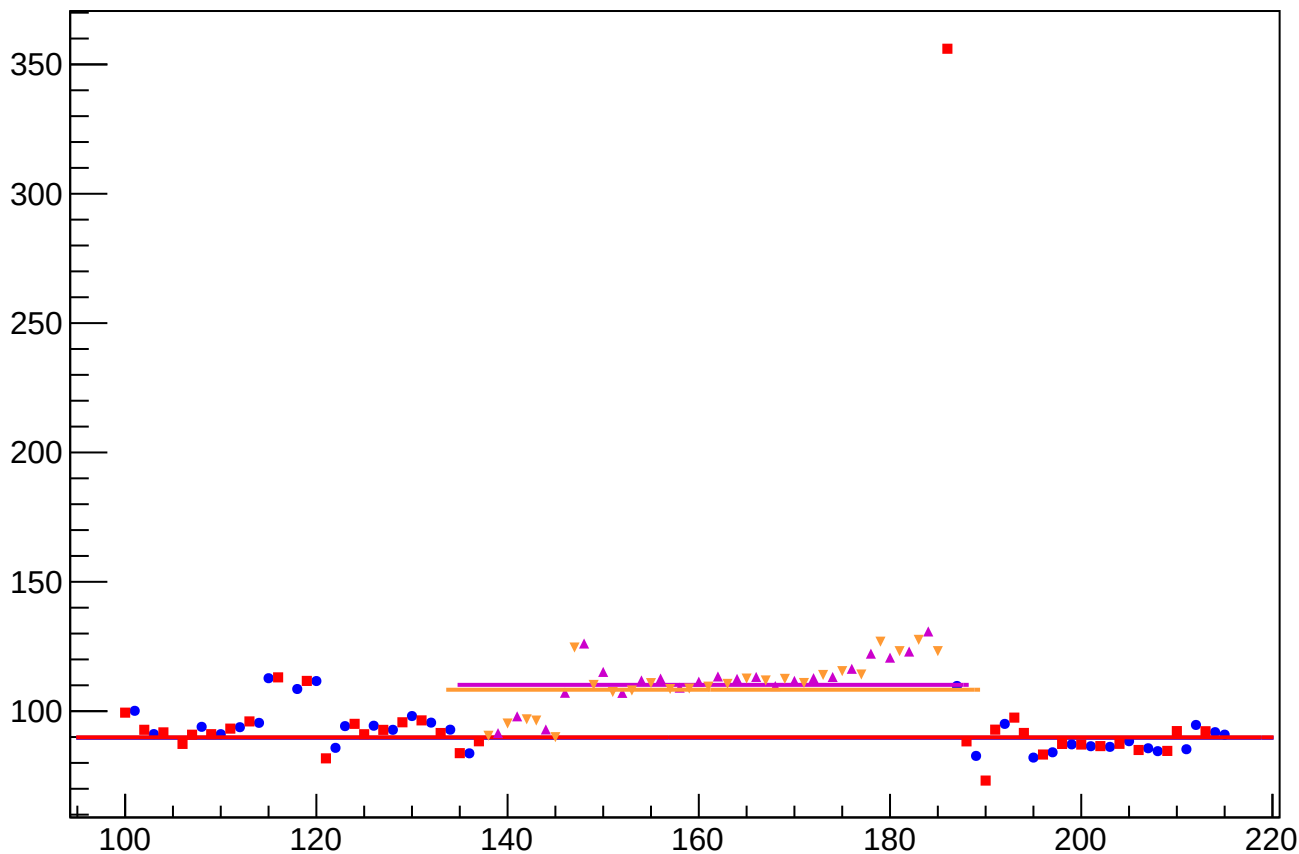
Right: -21.370 ± 15.336 χ^2/NDF : 64.2/65

In: -85.846 ± 16.724 χ^2/NDF : 62.1/54

Out: -79.226 ± 16.512 χ^2/NDF : 88.8/58

All: -82.494 ± 11.750 χ^2/NDF : 151.0/113

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.716 $\pm$ 0.015 χ^2 /NDF: 170924.3/31

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.893 $\pm$ 0.015 χ^2 /NDF: 584969.6/33

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

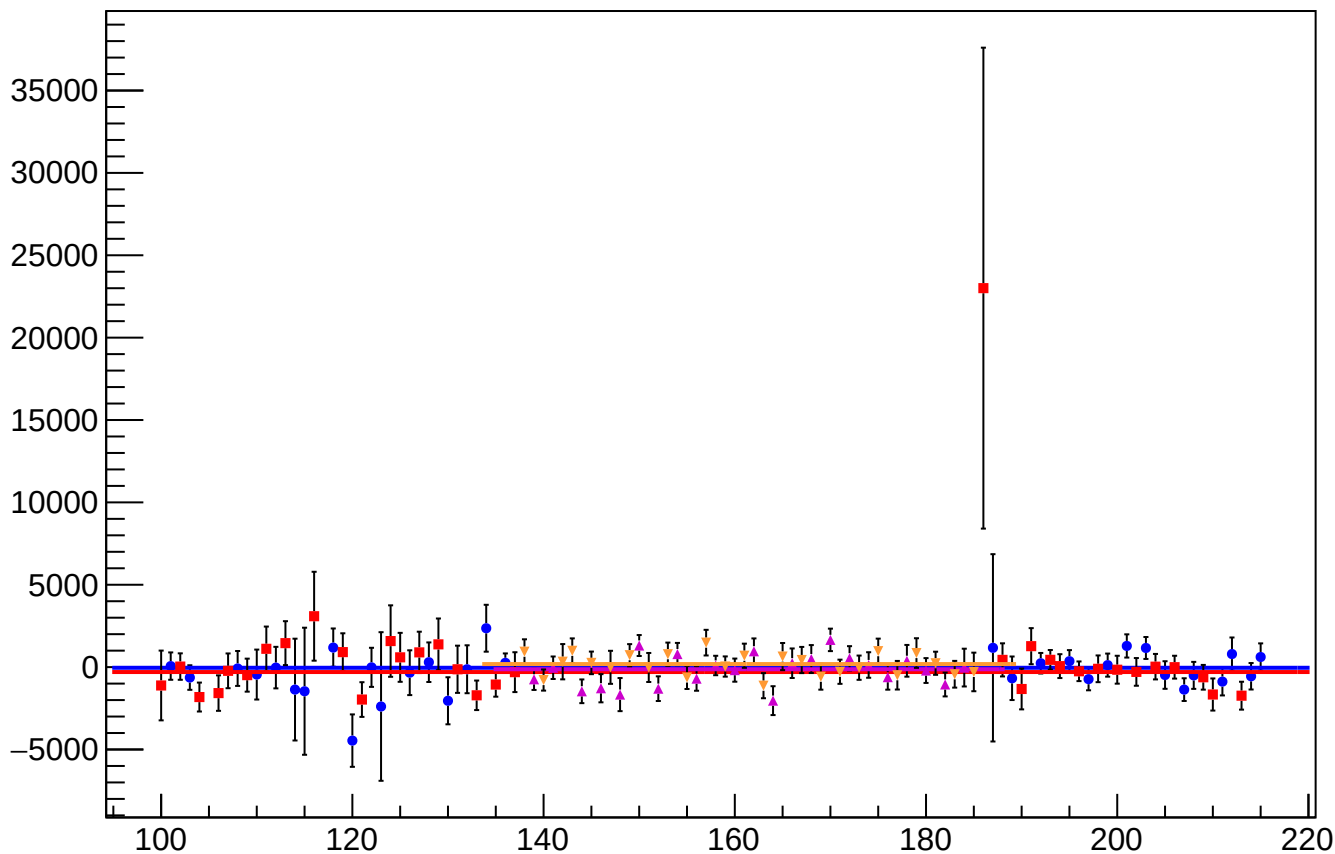
Right: 89.804 $\pm$ 0.011 χ^2 /NDF: 755960.9/65

In: 97.898 $\pm$ 0.012 χ^2 /NDF: 1136043.4/54

Out: 97.723 $\pm$ 0.012 χ^2 /NDF: 1522441.5/58

All: 97.809 $\pm$ 0.008 χ^2 /NDF: 2658595.7/113

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -39.741 ± 163.619 χ^2/NDF : 31.1/31

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -298.646 ± 164.309 χ^2/NDF : 32.6/33

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

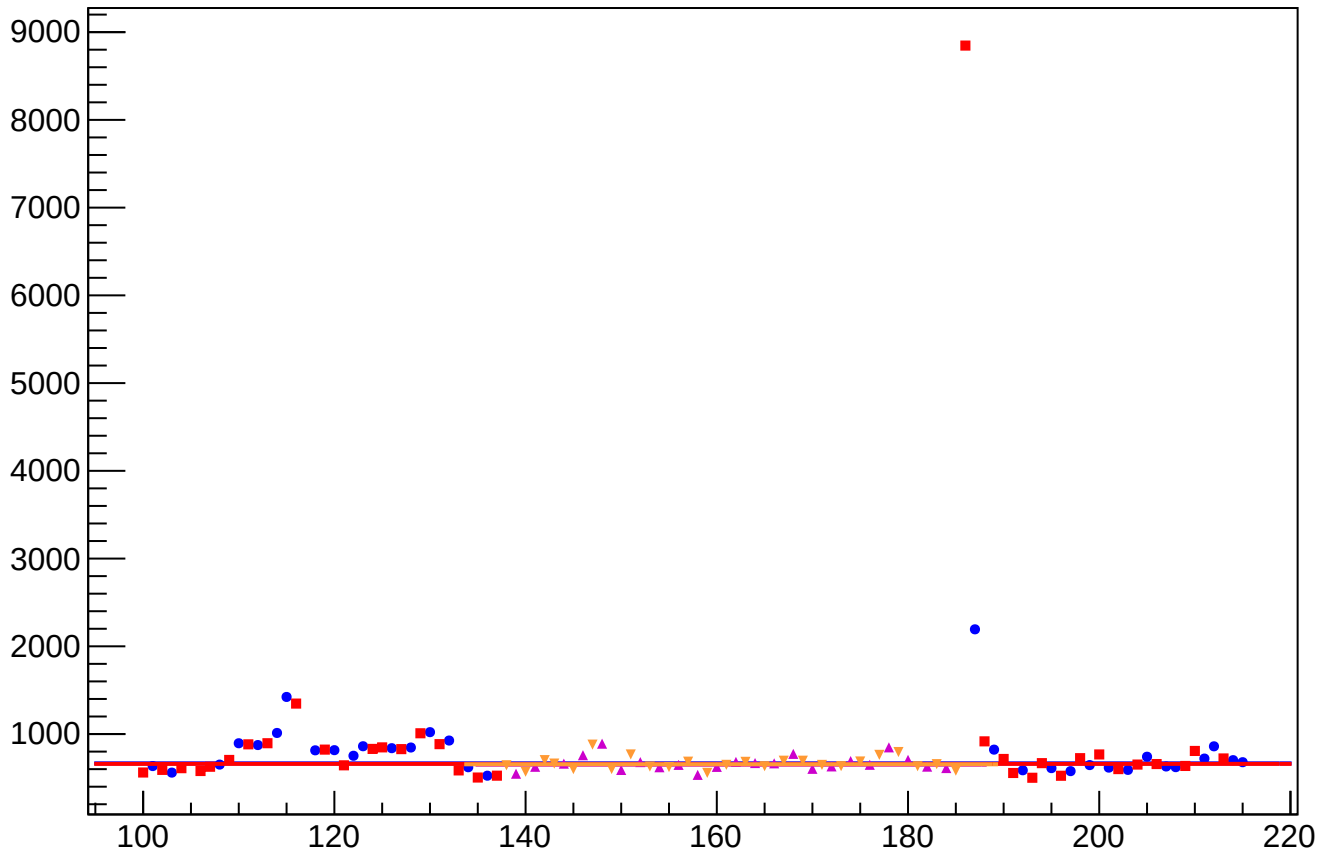
Right: -168.649 ± 115.939 χ^2/NDF : 65.0/65

In: -86.055 ± 113.342 χ^2/NDF : 67.5/54

Out: -40.471 ± 112.239 χ^2/NDF : 55.6/58

All: -63.040 ± 79.752 χ^2/NDF : 123.2/113

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 666.141 $\pm$ 0.116 χ^2 /NDF: 1102303.3/31

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF:367349.8/24

Right Out: 659.976 $\pm$ 0.116 χ^2 /NDF: 1826552.2/33

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

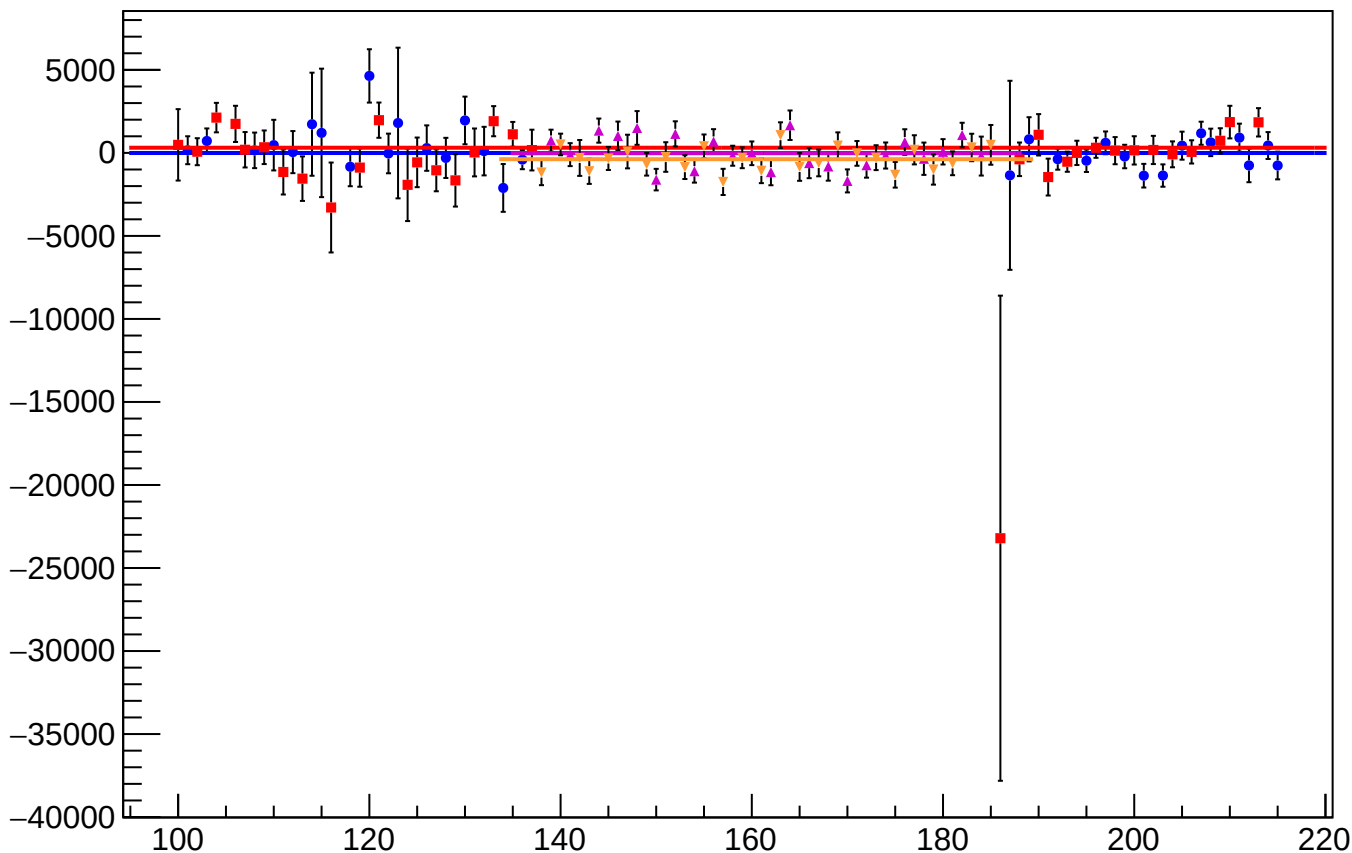
Right: 663.071 $\pm$ 0.082 χ^2 /NDF: 2930269.1/65

In: 658.205 $\pm$ 0.080 χ^2 /NDF:1577466.0/54

Out: 657.405 $\pm$ 0.079 χ^2 /NDF:2194820.2/58

All: 657.801 $\pm$ 0.056 χ^2 /NDF: 3772336.5/113

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -5.863 ± 165.227 χ^2/NDF : 31.6/31

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 311.336 ± 166.031 χ^2/NDF : 37.4/33

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

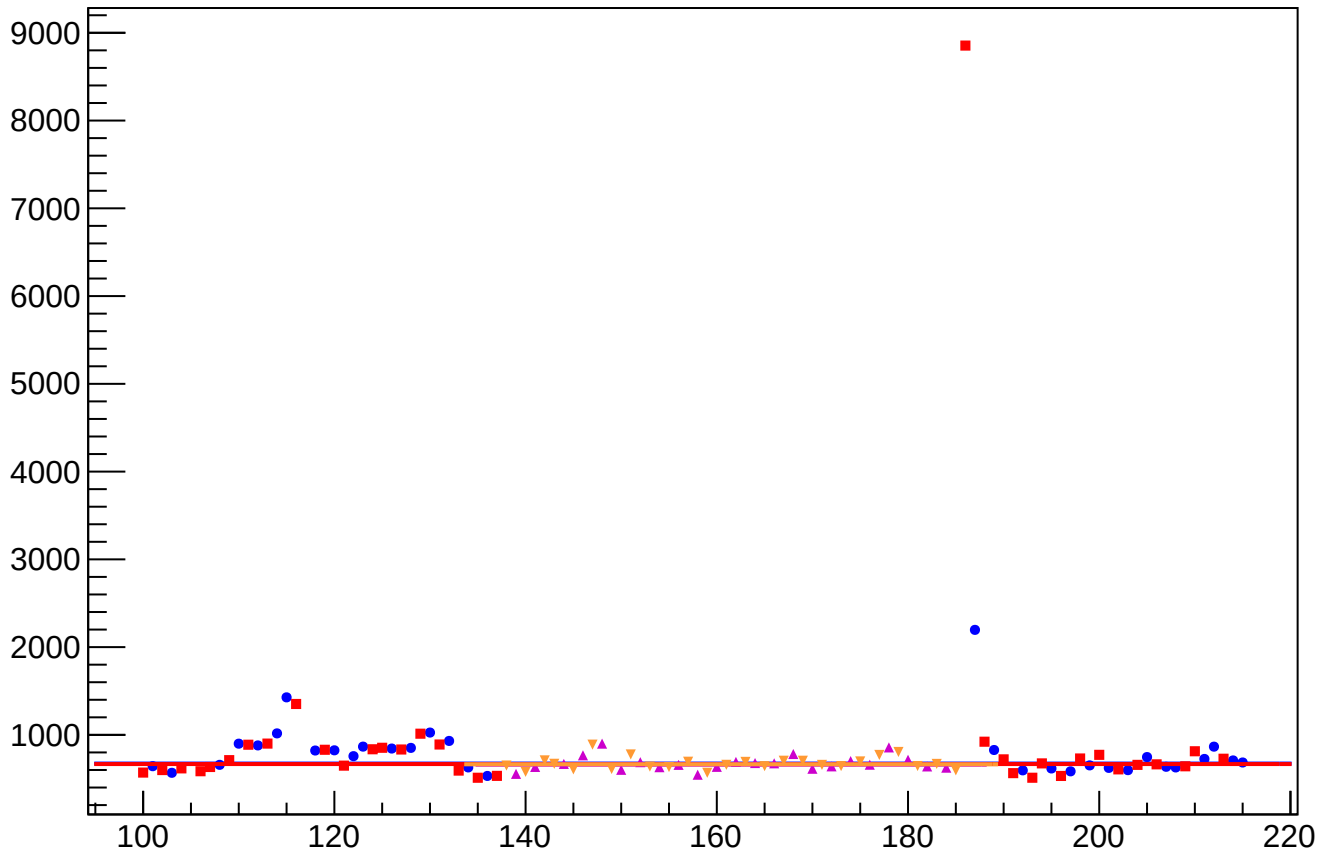
Right: 151.967 ± 117.117 χ^2/NDF : 70.9/65

In: -10.472 ± 114.760 χ^2/NDF : 68.8/54

Out: -55.803 ± 113.648 χ^2/NDF : 65.4/58

All: -33.358 ± 80.751 χ^2/NDF : 134.4/113

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 673.082+/-0.117 χ^2/NDF : 1077111.4/31

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 667.455+/-0.117 χ^2/NDF : 1788076.5/33

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

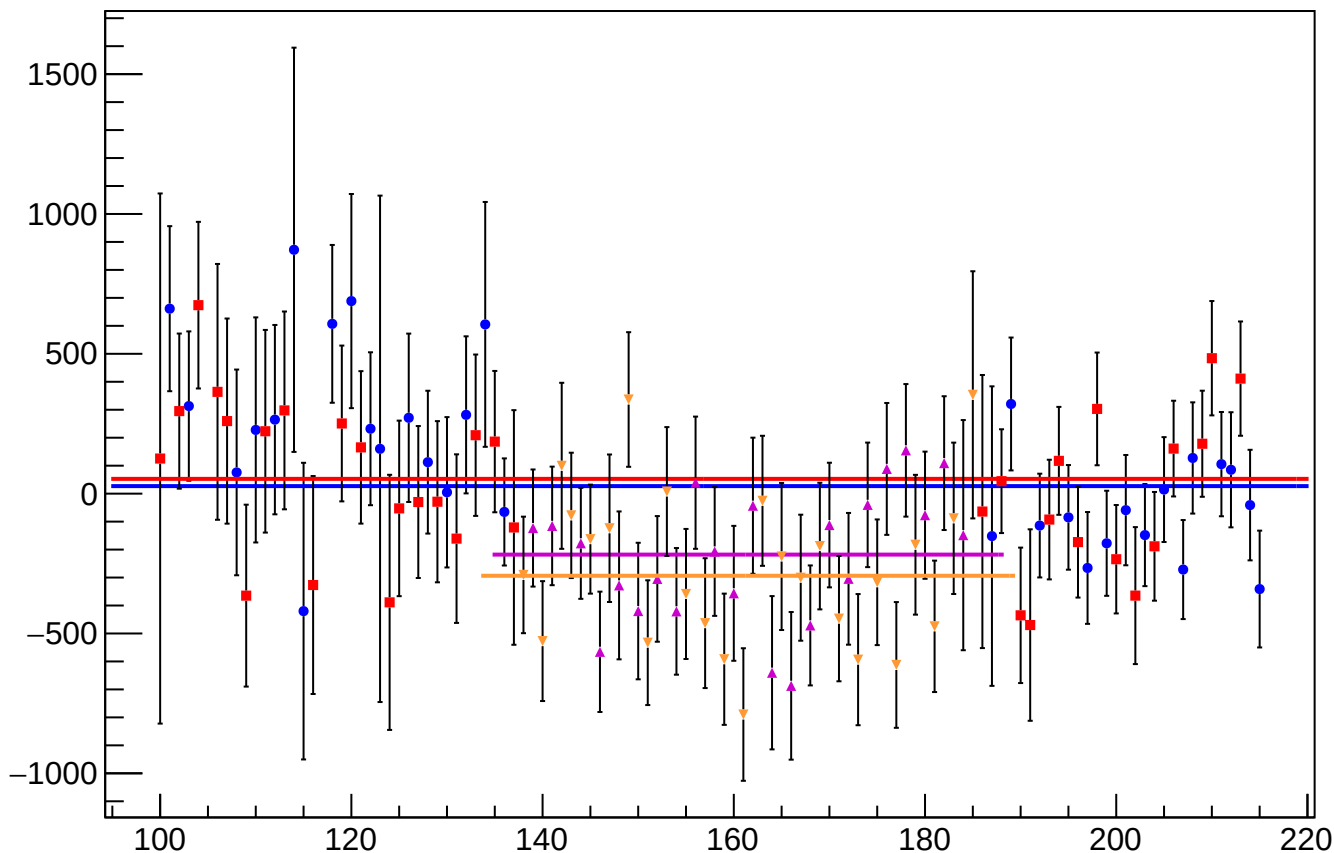
Right: 670.282+/-0.083 χ^2/NDF : 2866342.0/65

In: 666.772+/-0.081 χ^2/NDF : 1531927.4/54

Out: 666.029+/-0.080 χ^2/NDF : 2145407.8/58

All: 666.397+/-0.057 χ^2/NDF : 3677377.5/113

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 26.934 ± 42.752 χ^2/NDF : 33.6/31

Left Out: -293.590 ± 47.203 χ^2/NDF : 30.3/24

Right Out: 52.863 ± 43.950 χ^2/NDF : 37.2/33

Left In: -217.964 ± 48.819 χ^2/NDF : 21.3/22

Left: -257.050 ± 33.934 χ^2/NDF : 52.9/47

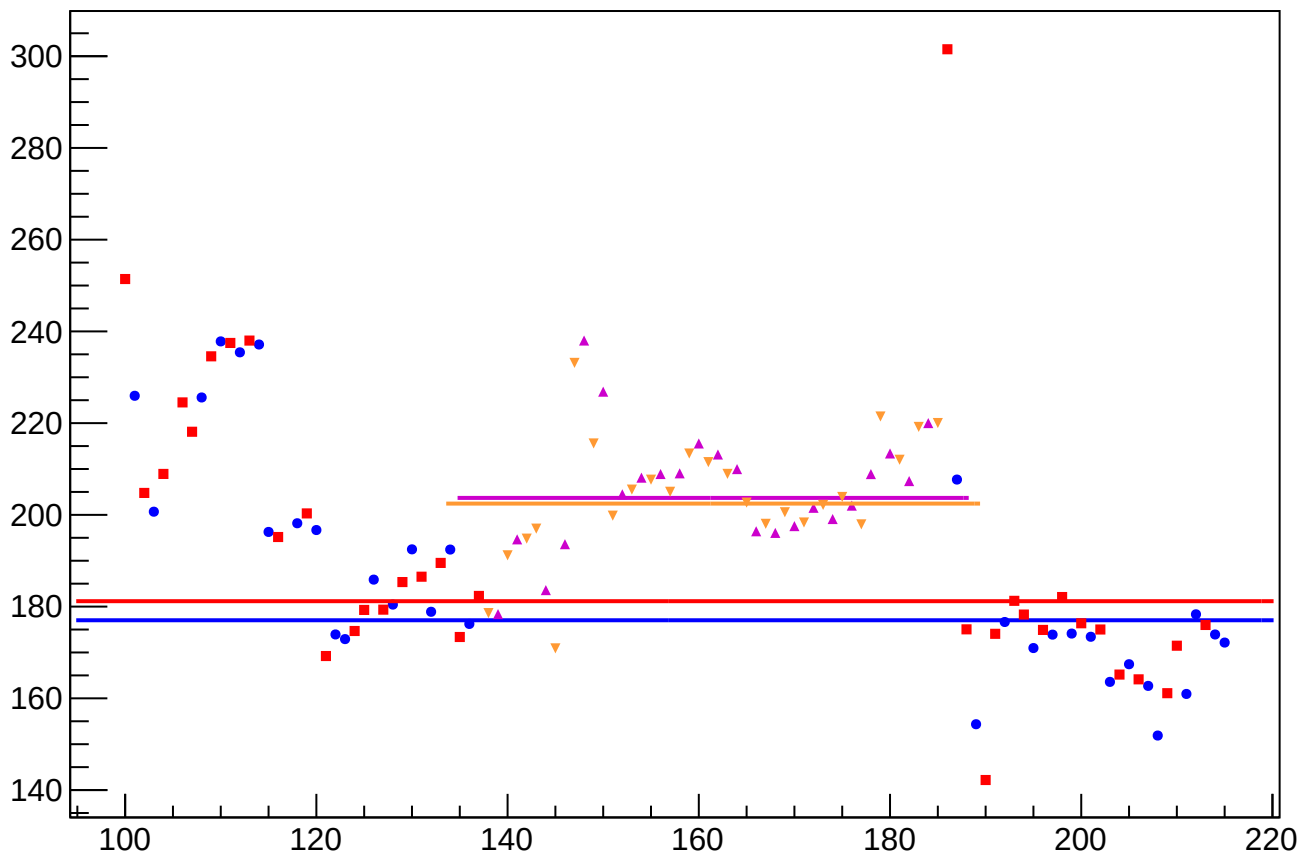
Right: 39.540 ± 30.645 χ^2/NDF : 71.0/65

In: -79.361 ± 32.163 χ^2/NDF : 69.1/54

Out: -108.018 ± 32.166 χ^2/NDF : 96.4/58

All: -93.688 ± 22.744 χ^2/NDF : 165.9/113

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 177.022 $\pm$ 0.030 χ^2/NDF : 361519.7/31

Left Out: 202.459 $\pm$ 0.033 χ^2/NDF :158582.3/24

Right Out: 181.181 $\pm$ 0.031 χ^2/NDF : 498905.6/33

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

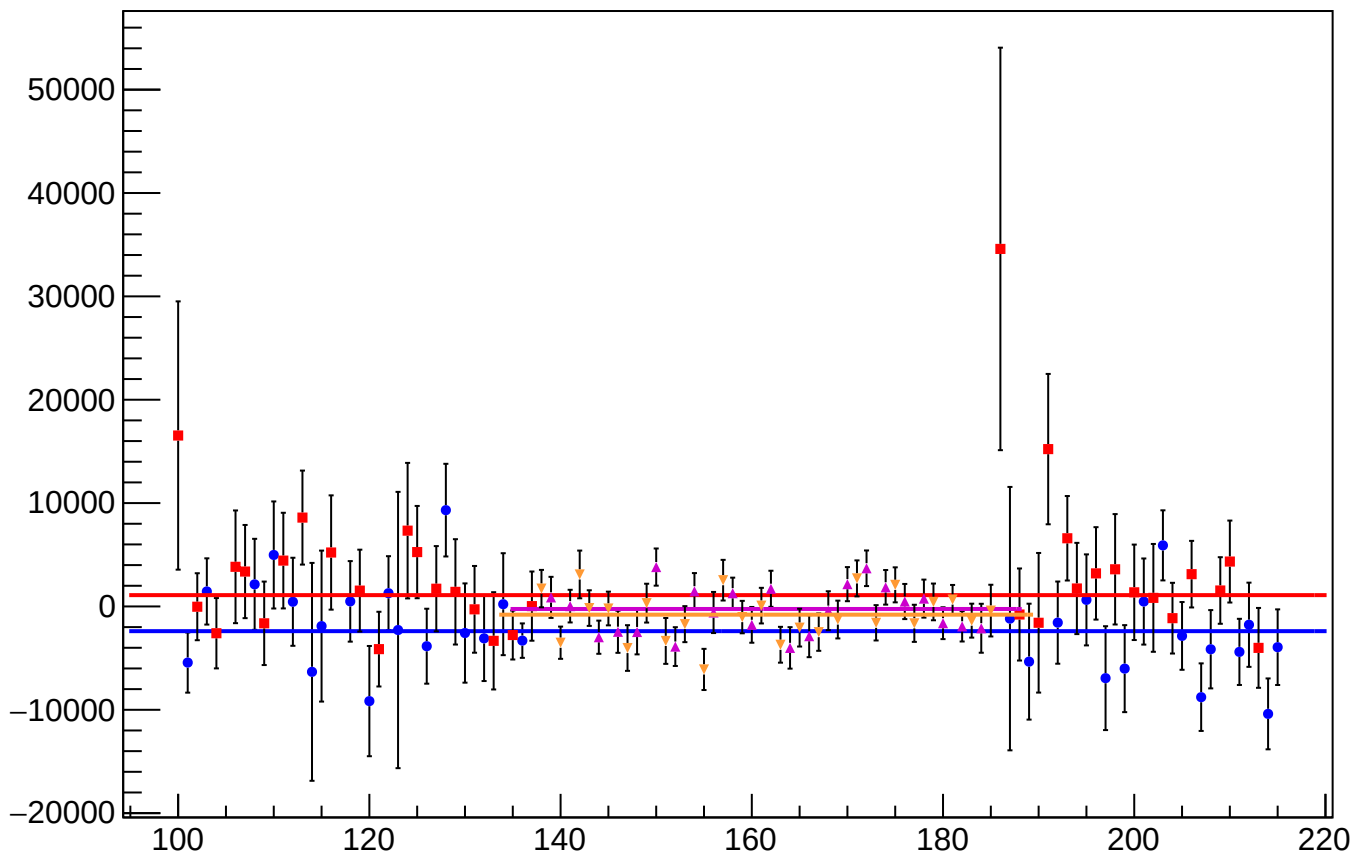
Right: 179.044 $\pm$ 0.022 χ^2/NDF : 869627.0/65

In: 188.601 $\pm$ 0.023 χ^2/NDF :835703.2/54

Out: 191.062 $\pm$ 0.023 χ^2/NDF :875163.6/58

All: 189.831 $\pm$ 0.016 χ^2/NDF : 1716720.1/113

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2391.085 ± 679.112 $\chi^2/\text{NDF}: 35.9/31$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1094.673 ± 721.170 $\chi^2/\text{NDF}: 27.7/33$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

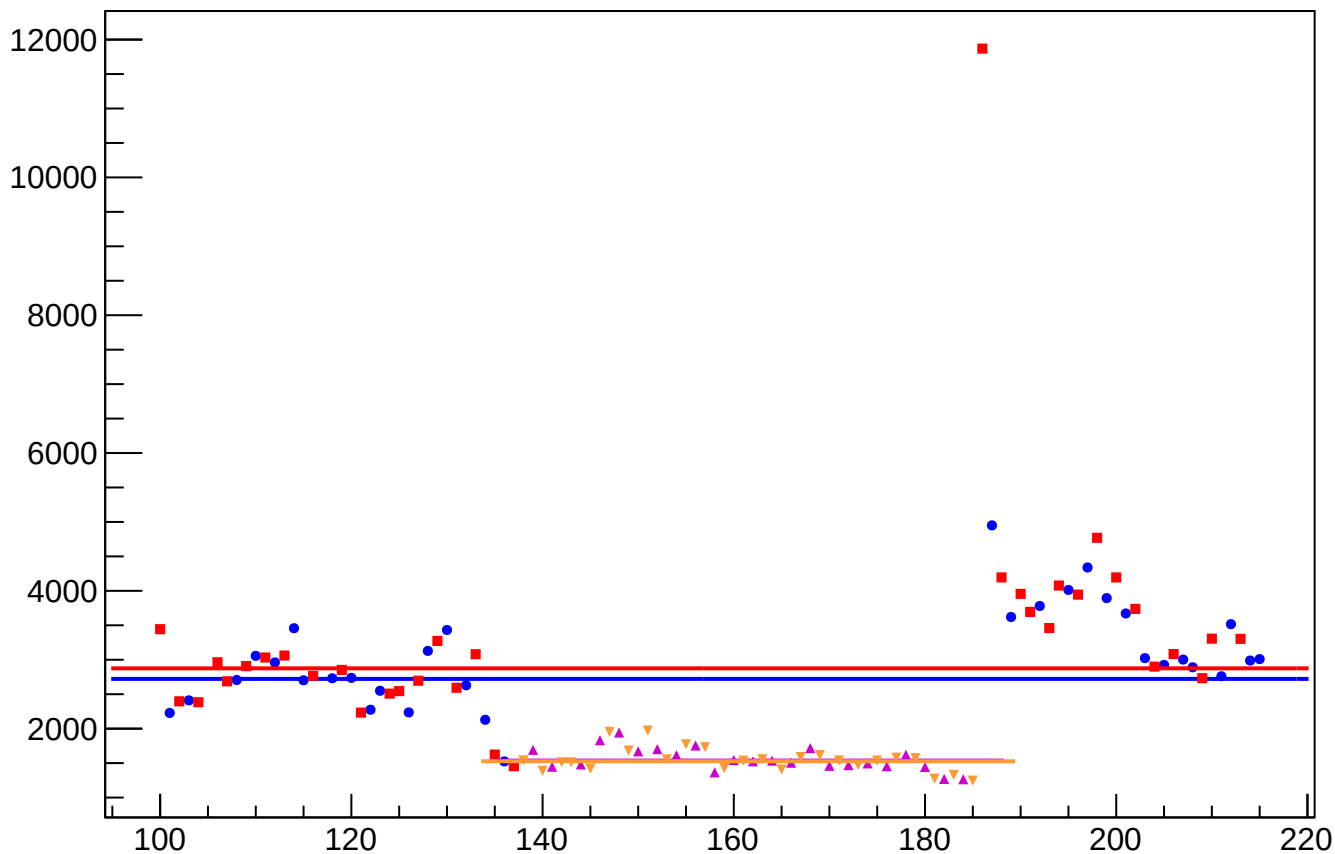
Right: -752.809 ± 494.405 $\chi^2/\text{NDF}: 76.0/65$

In: -735.990 ± 324.803 $\chi^2/\text{NDF}: 79.3/54$

Out: -422.873 ± 320.556 $\chi^2/\text{NDF}: 69.0/58$

All: -577.372 ± 228.154 $\chi^2/\text{NDF}: 148.8/113$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2722.214 $\pm$ 0.480 χ^2 /NDF: 2326692.5/31

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2875.412 $\pm$ 0.510 χ^2 /NDF: 2641340.1/33

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

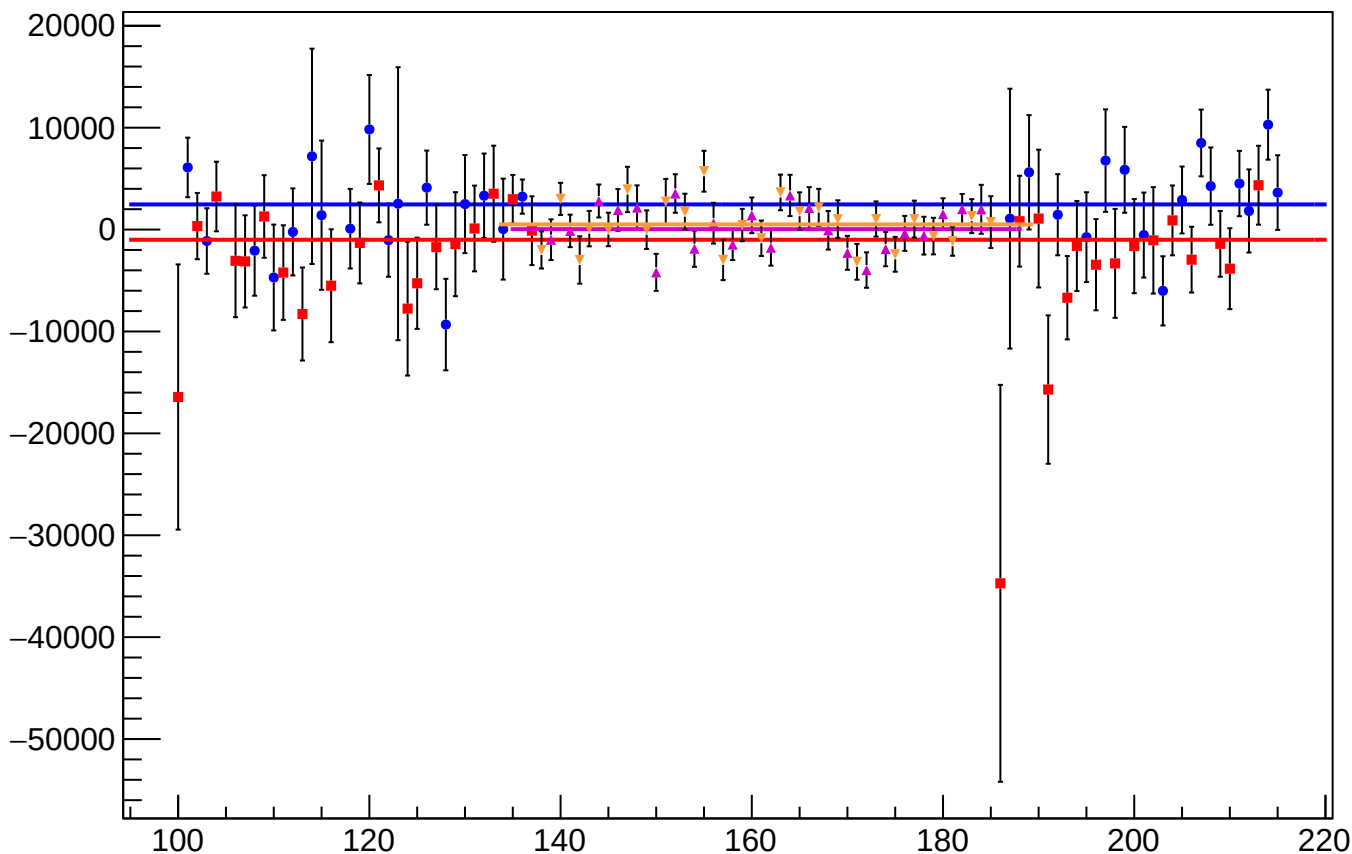
Right: 2794.216 $\pm$ 0.350 χ^2 /NDF: 5015866.9/65

In: 1807.758 $\pm$ 0.230 χ^2 /NDF: 7378999.5/54

Out: 1793.182 $\pm$ 0.227 χ^2 /NDF: 8649156.8/58

All: 1800.374 $\pm$ 0.161 χ^2 /NDF: 16030196.9/111

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2469.282 $\pm$ 681.195 χ^2 /NDF: 35.6/31

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -997.669 $\pm$ 723.296 χ^2 /NDF: 28.4/33

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

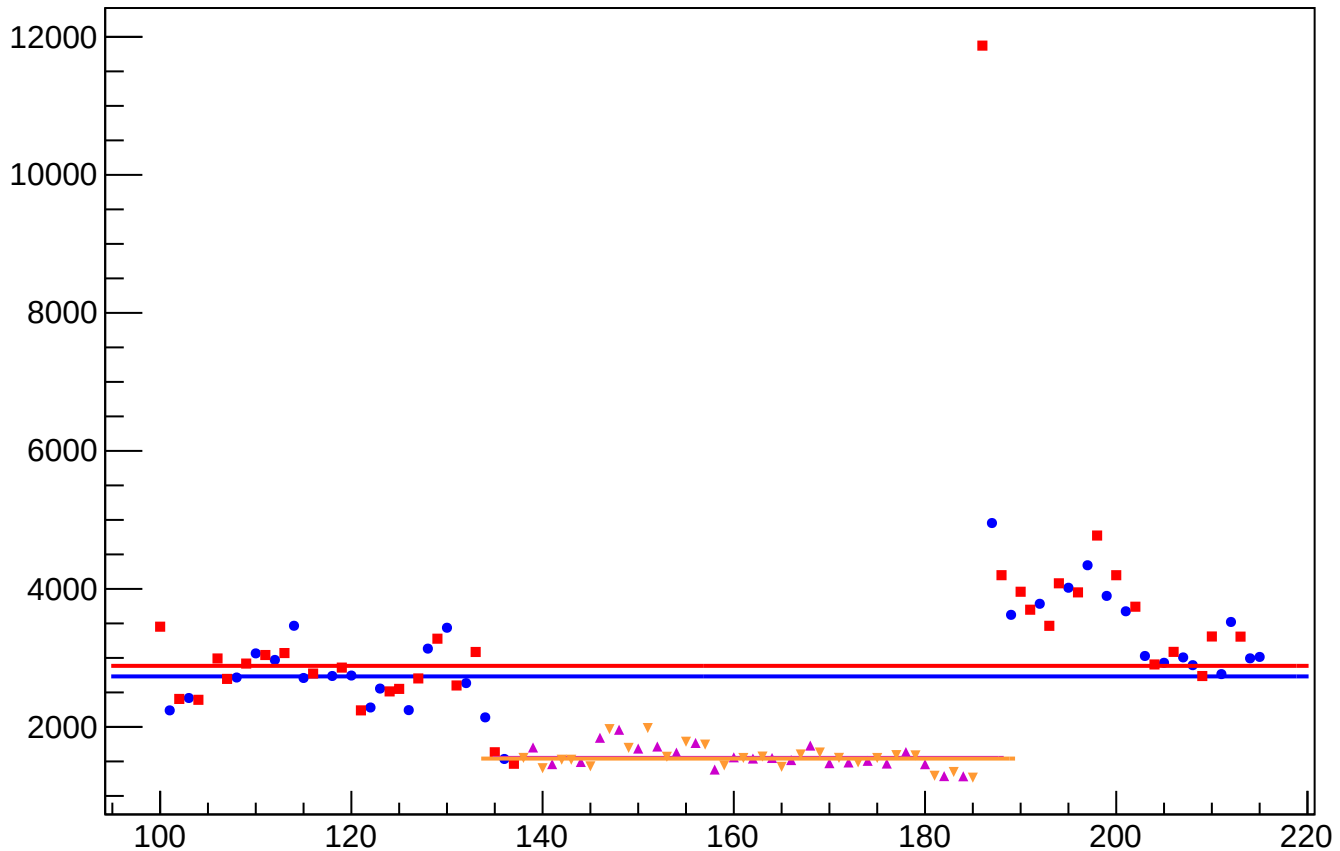
Right: 839.639 $\pm$ 495.894 χ^2 /NDF: 76.2/65

In: 601.023 $\pm$ 327.340 χ^2 /NDF:79.0/54

Out: 207.485 $\pm$ 323.127 χ^2 /NDF:67.3/58

All: 401.706 $\pm$ 229.961 χ^2 /NDF: 147.0/113

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2732.052 $\pm$ 0.482 χ^2/NDF : 2293583.1/31

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF :382045.4/24

Right Out: 2884.873 $\pm$ 0.511 χ^2/NDF : 2615213.9/33

Left In: 1551.063 $\pm$ 0.264 χ^2/NDF :338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2/NDF : 721657.1/47

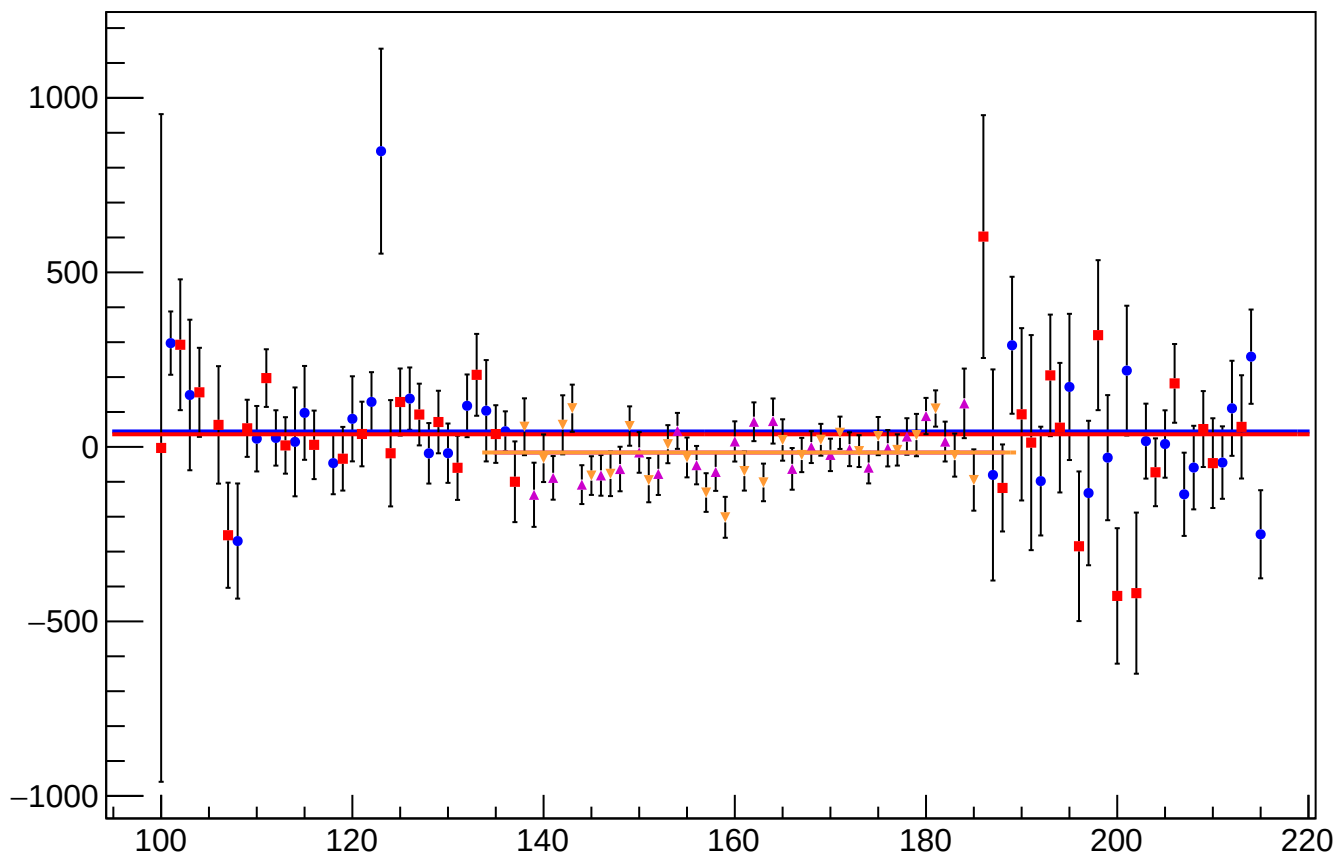
Right: 2803.886 $\pm$ 0.351 χ^2/NDF : 4956111.5/65

In: 1823.774 $\pm$ 0.231 χ^2/NDF :7255778.1/54

Out: 1809.416 $\pm$ 0.228 χ^2/NDF :8521405.3/58

All: 1816.502 $\pm$ 0.163 χ^2/NDF : 15779132.2/100

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 44.210 ± 19.807 χ^2/NDF : 41.4/31

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 36.123 ± 20.408 χ^2/NDF : 39.5/33

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

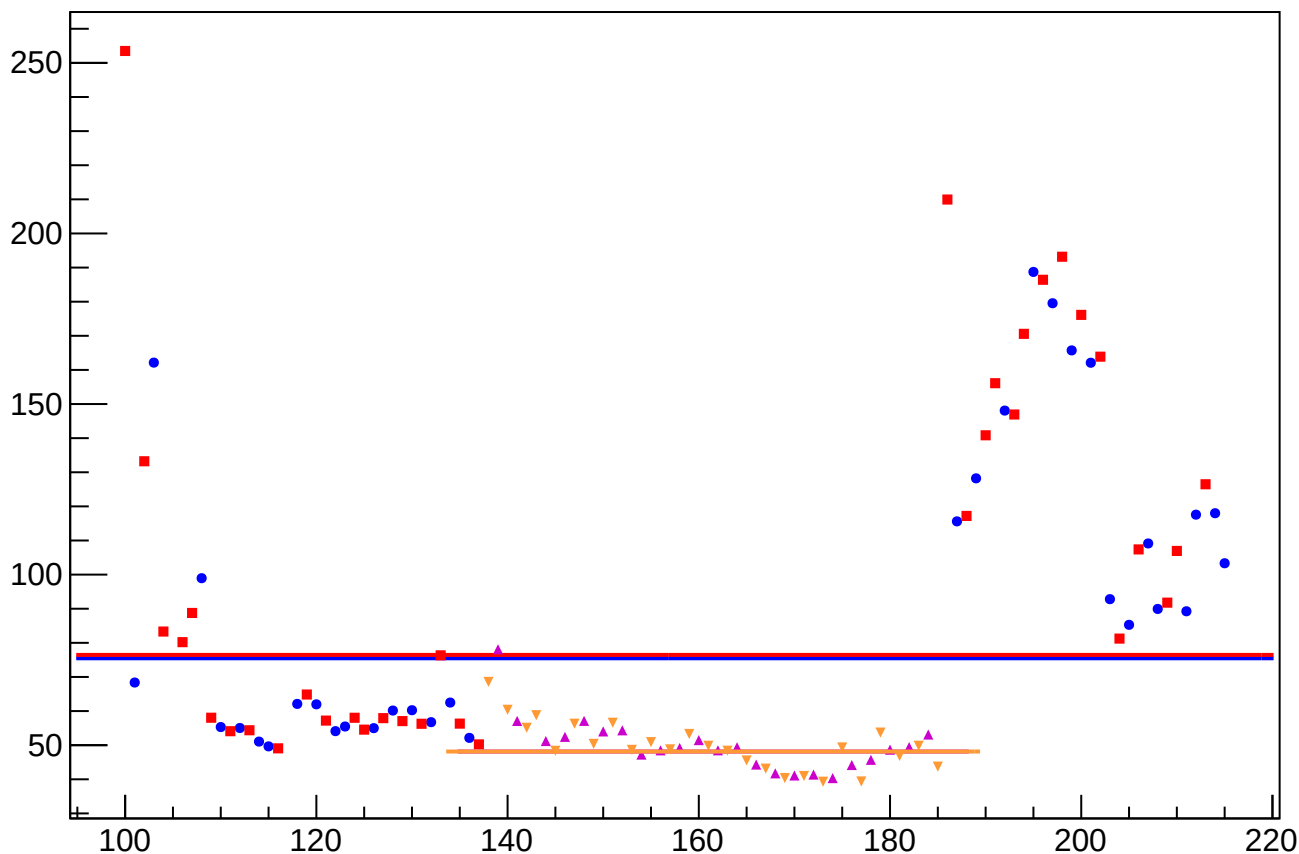
Right: 40.288 ± 14.213 χ^2/NDF : 81.0/65

In: -0.645 ± 10.041 χ^2/NDF : 73.6/54

Out: -3.741 ± 9.912 χ^2/NDF : 84.1/58

All: -2.213 ± 7.054 χ^2/NDF : 157.8/113

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 75.474+/-0.014 χ^2/NDF : 5025666.3/31

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 76.463+/-0.014 χ^2/NDF : 5662339.2/33

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

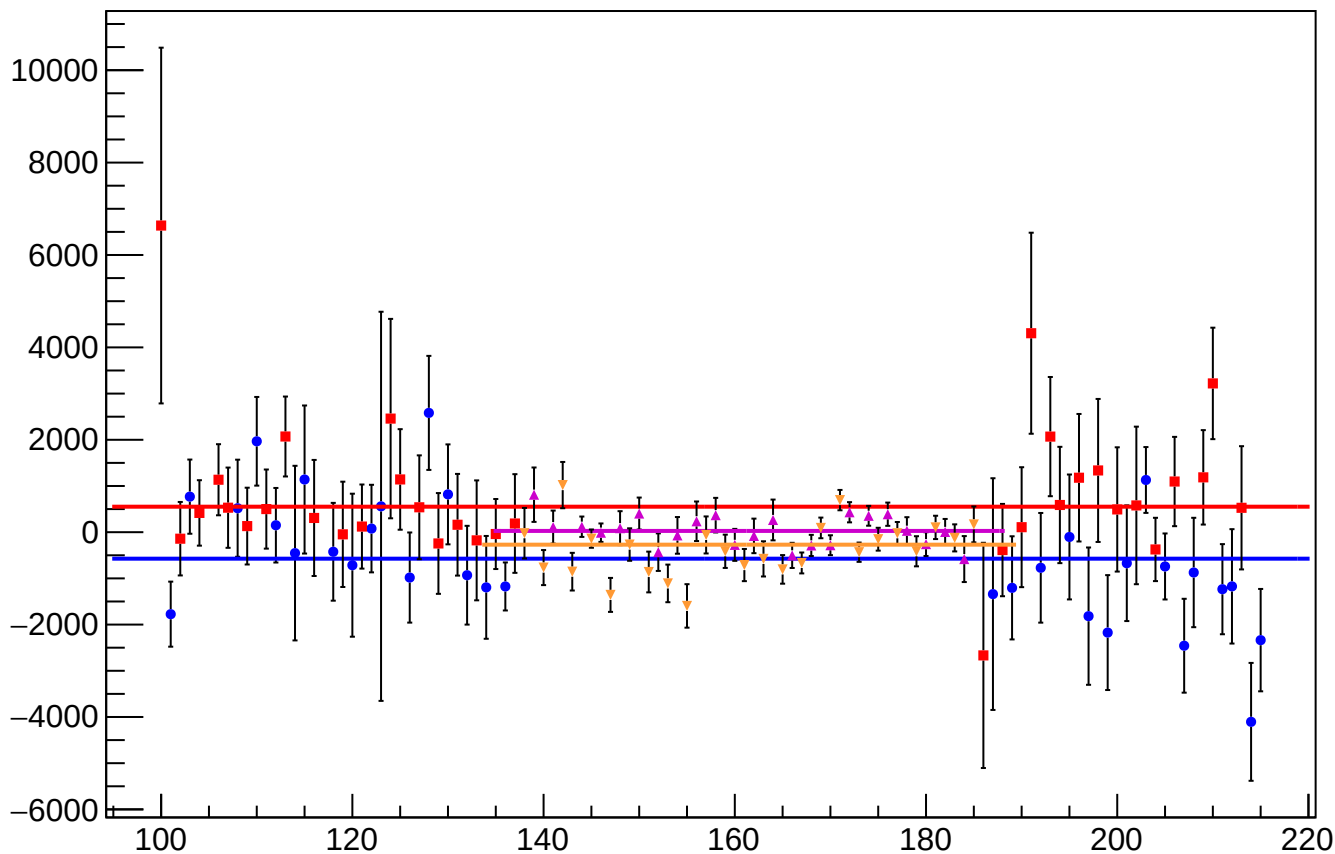
Right: 75.954+/-0.010 χ^2/NDF : 10690421.7/65

In: 55.165+/-0.007 χ^2/NDF : 8430821.2/54

Out: 54.822+/-0.007 χ^2/NDF : 9260823.5/58

All: 54.991+/-0.005 χ^2/NDF : 17692820.1/113

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -573.403 ± 179.923 $\chi^2/\text{NDF}: 49.5/31$

Left Out: -270.214 ± 60.177 $\chi^2/\text{NDF}: 70.1/24$

Right Out: 551.846 ± 180.781 $\chi^2/\text{NDF}: 25.5/33$

Left In: 27.271 ± 60.430 $\chi^2/\text{NDF}: 25.1/22$

Left: -122.095 ± 42.641 $\chi^2/\text{NDF}: 107.3/47$

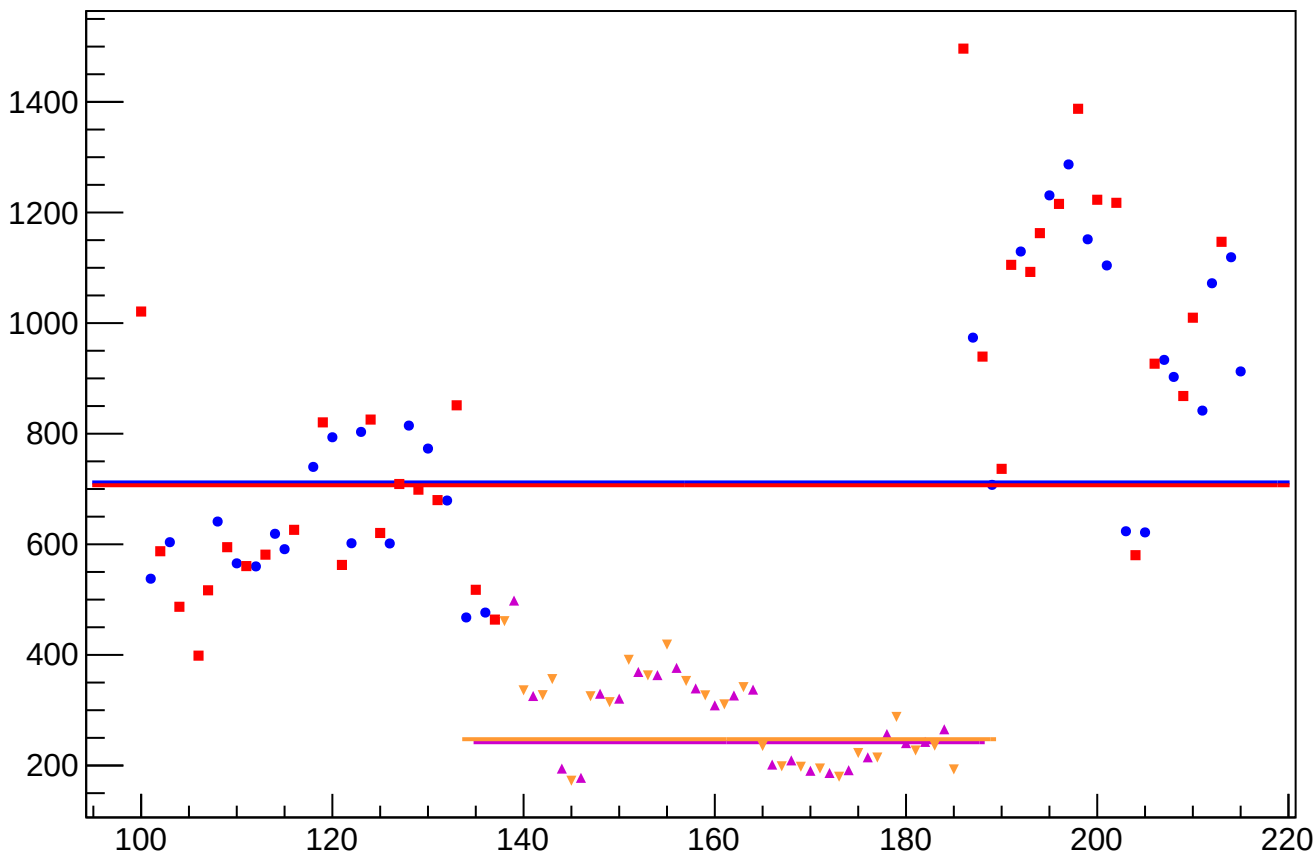
Right: -13.456 ± 127.527 $\chi^2/\text{NDF}: 94.5/65$

In: -33.620 ± 57.285 $\chi^2/\text{NDF}: 84.6/54$

Out: -188.211 ± 57.097 $\chi^2/\text{NDF}: 114.2/58$

All: -111.170 ± 40.440 $\chi^2/\text{NDF}: 202.5/113$

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 711.874 $\pm$ 0.127 χ^2 /NDF: 2883905.1/31

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 706.784 $\pm$ 0.128 χ^2 /NDF: 3680657.8/33

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

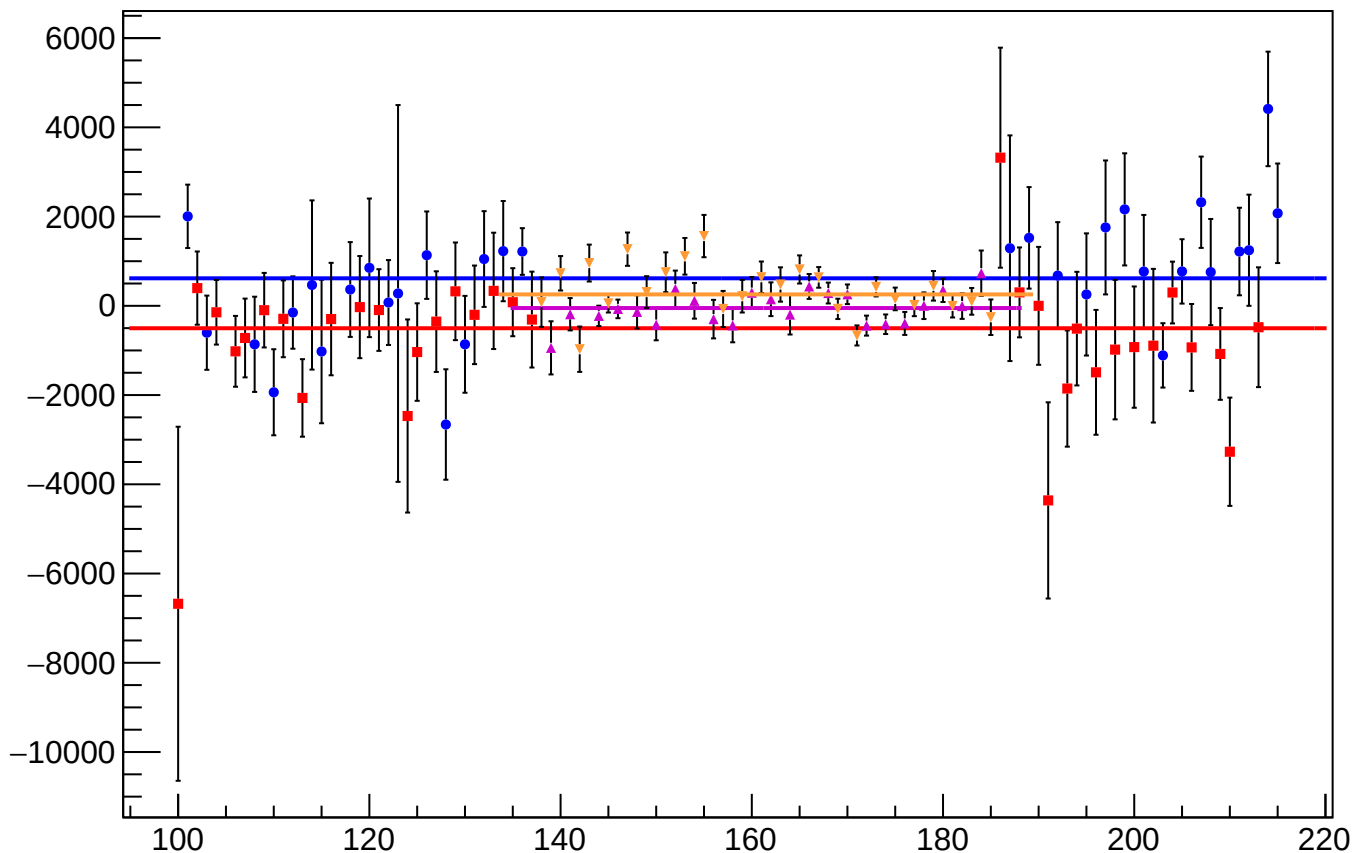
Right: 709.341 $\pm$ 0.090 χ^2 /NDF: 6565359.4/65

In: 289.737 $\pm$ 0.041 χ^2 /NDF: 17601370.5/54

Out: 293.378 $\pm$ 0.040 χ^2 /NDF: 18079158.5/58

All: 291.563 $\pm$ 0.029 χ^2 /NDF: 35684582.7/112

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 616.696 $\pm$ 181.531 χ^2 /NDF: 50.7/31

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -502.472 $\pm$ 182.736 χ^2 /NDF: 26.2/33

Left In: -49.832 $\pm$ 61.781 χ^2 /NDF:27.5/22

Left: 103.982 $\pm$ 43.557 χ^2 /NDF: 103.4/47

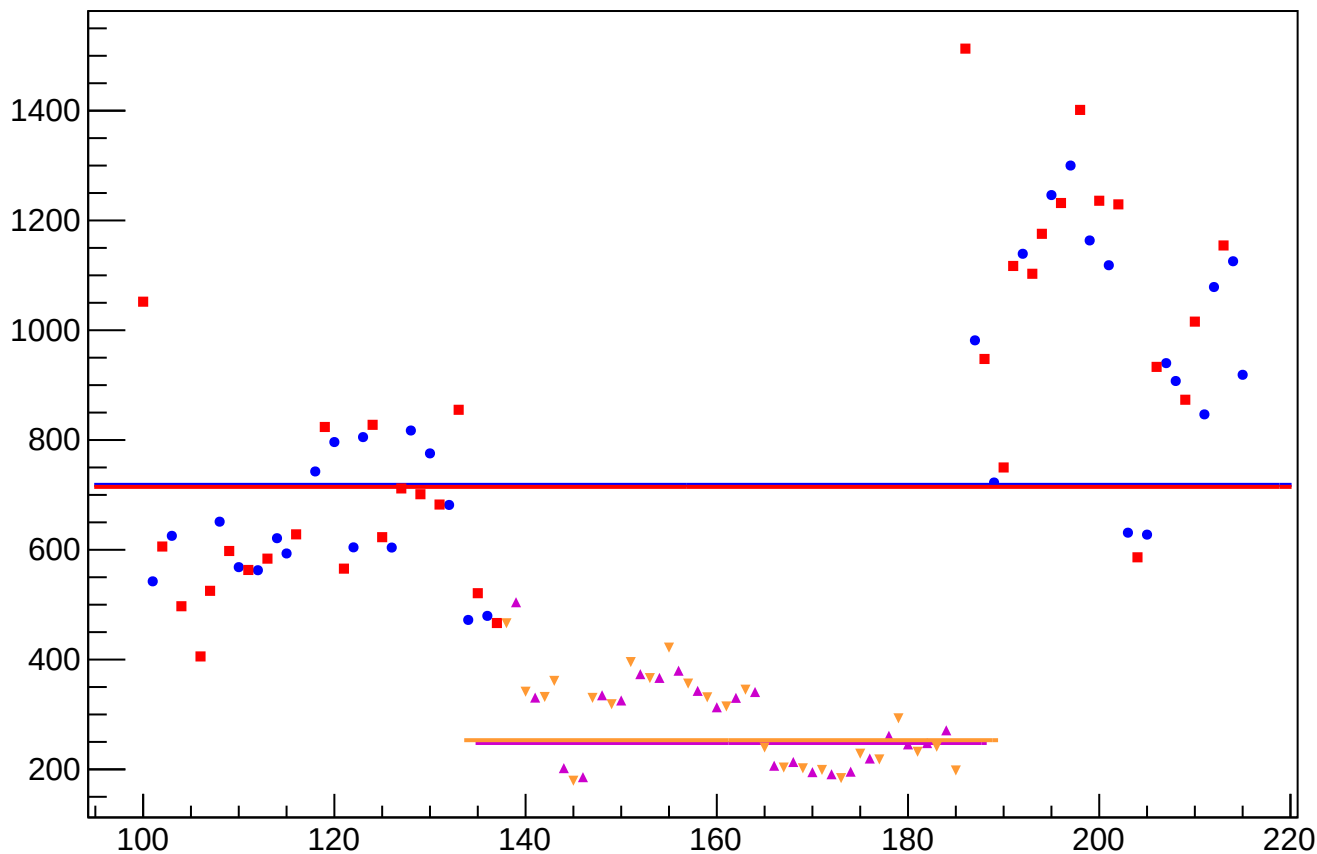
Right: 60.814 $\pm$ 128.786 χ^2 /NDF: 95.8/65

In: 19.356 $\pm$ 58.487 χ^2 /NDF:90.3/54

Out: 179.011 $\pm$ 58.218 χ^2 /NDF:105.2/58

All: 99.551 $\pm$ 41.261 χ^2 /NDF: 199.3/113

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 718.325+/-0.128 χ^2/NDF : 2880637.8/31

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 714.643+/-0.129 χ^2/NDF : 3644834.3/33

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

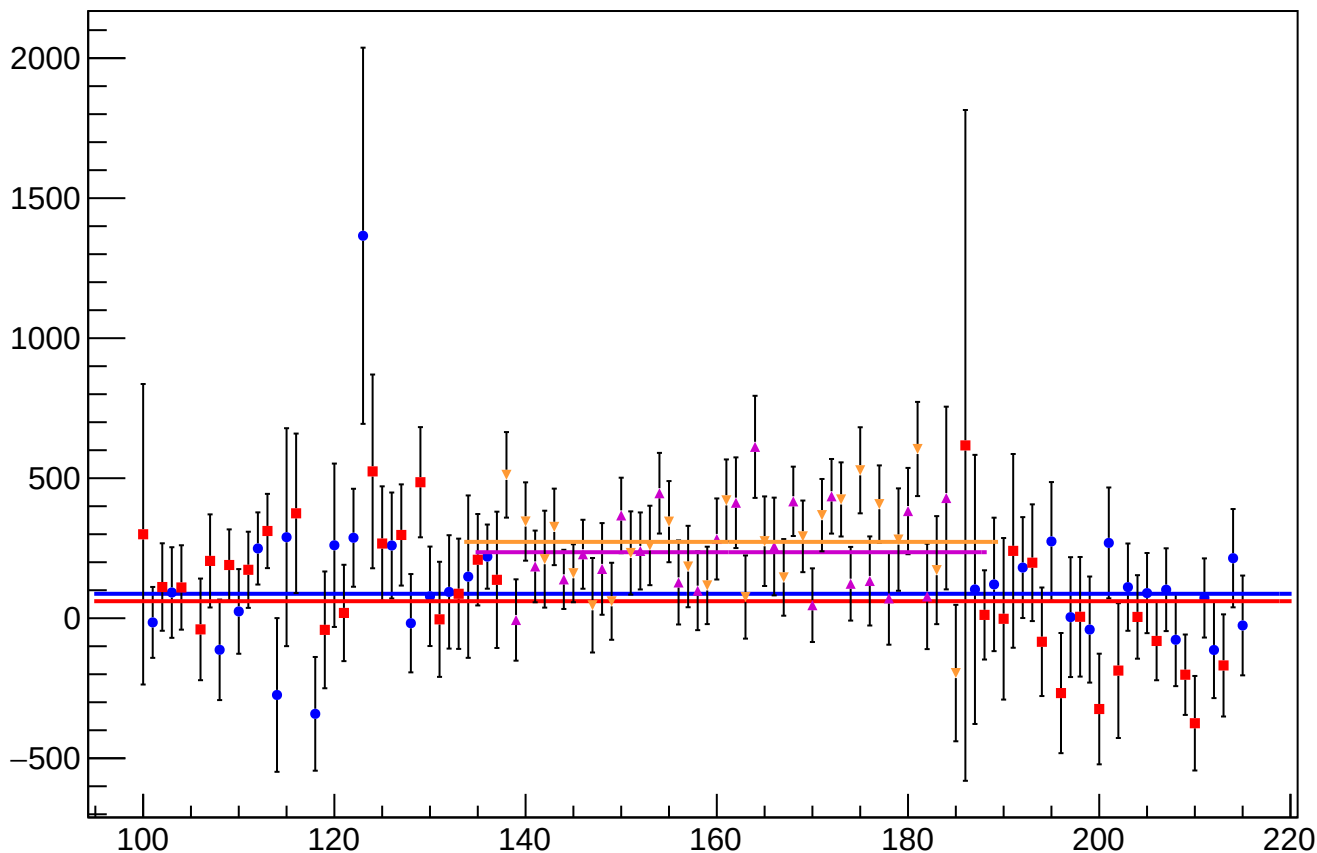
Right: 716.496+/-0.091 χ^2/NDF : 6525880.7/65

In: 296.883+/-0.041 χ^2/NDF : 17252101.7/54

Out: 299.980+/-0.041 χ^2/NDF : 17772628.3/58

All: 298.438+/-0.029 χ^2/NDF : 35027546.6/112

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 87.316+/-31.600 χ^2/NDF : 23.8/31

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 60.847+/-31.690 χ^2/NDF : 40.1/33

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

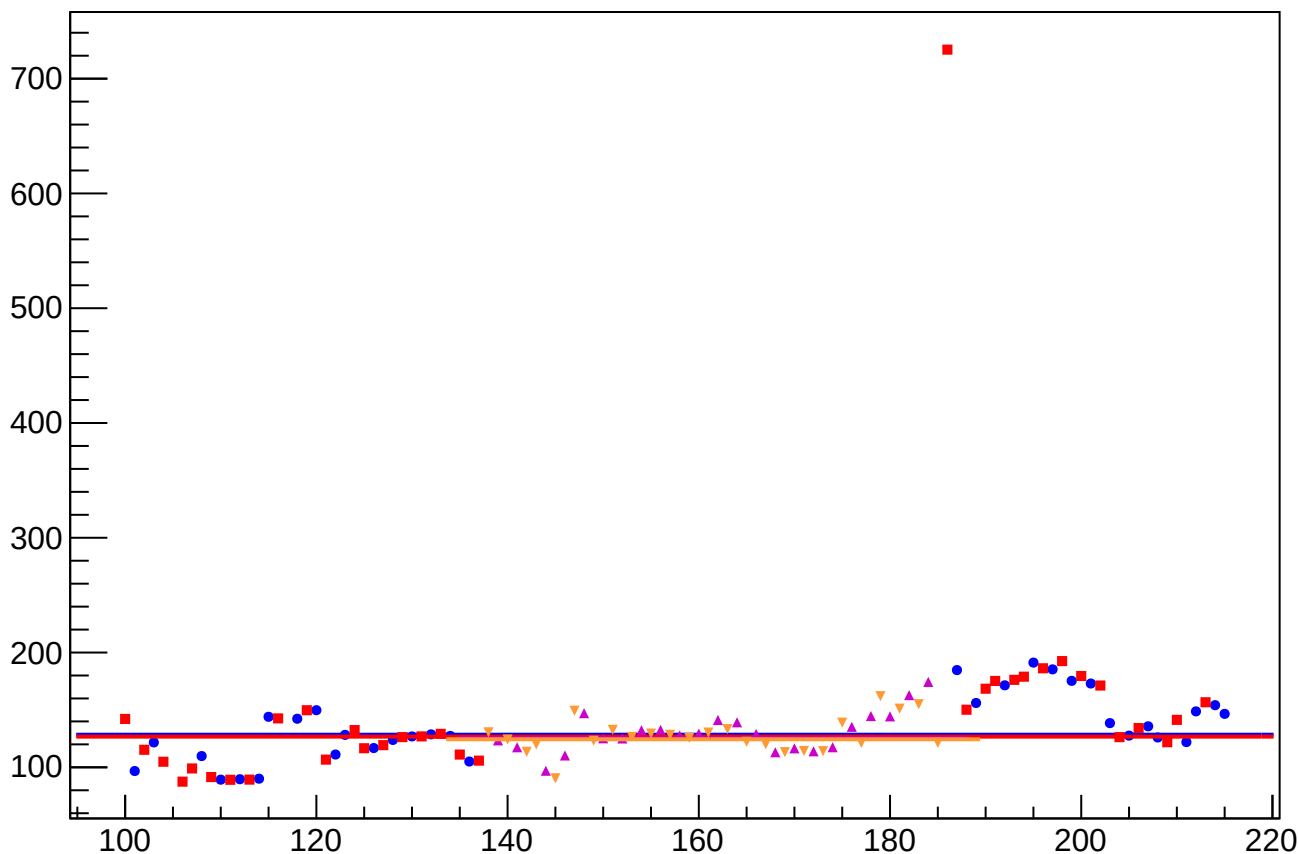
Right: 74.119+/-22.376 χ^2/NDF : 64.3/65

In: 164.843+/-21.845 χ^2/NDF :60.0/54

Out: 175.337+/-21.482 χ^2/NDF :91.7/58

All: 170.178+/-15.317 χ^2/NDF : 151.8/113

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 128.414 $\pm$ 0.022 χ^2 /NDF: 1459021.6/31

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 126.736 $\pm$ 0.022 χ^2 /NDF: 2284102.9/33

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

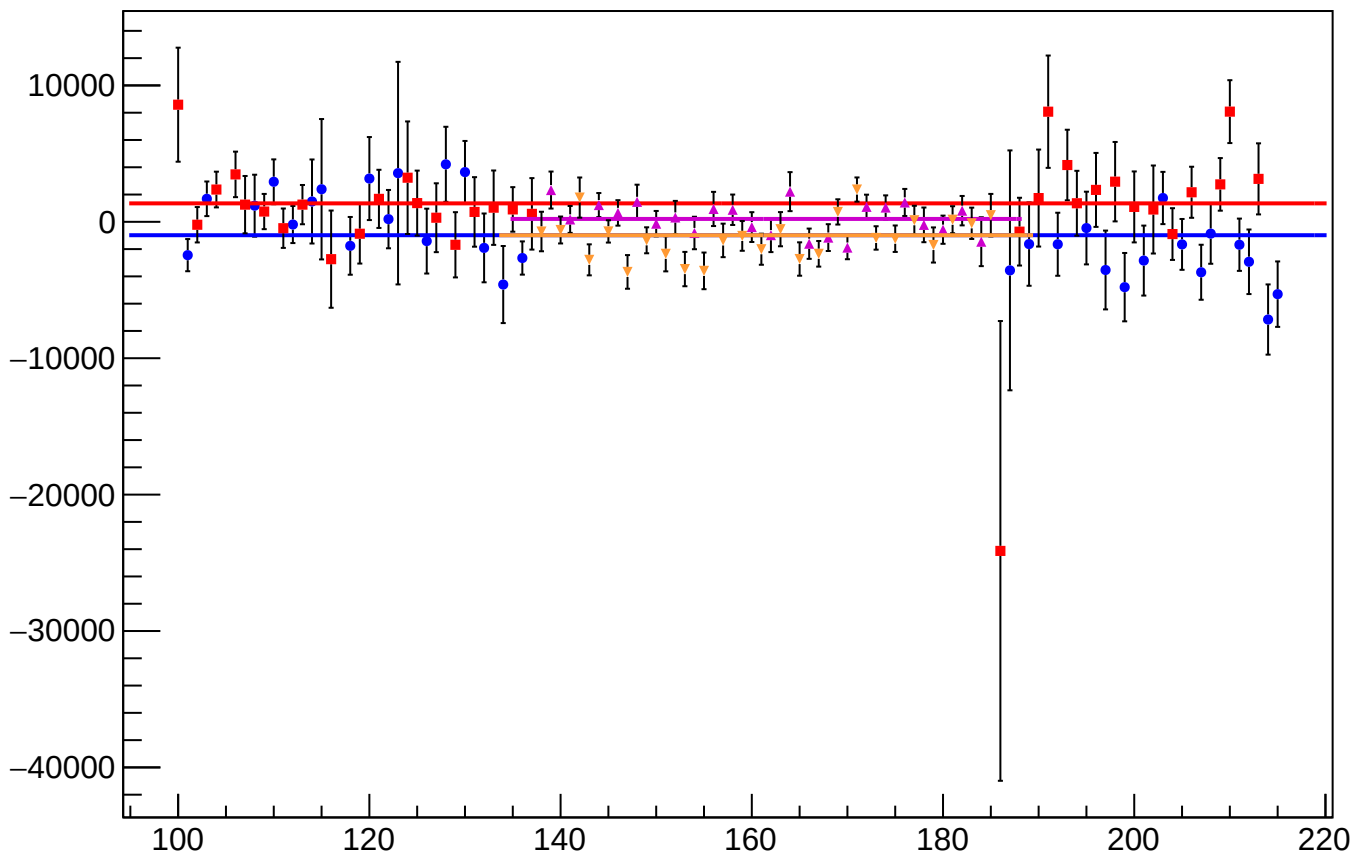
Right: 127.577 $\pm$ 0.016 χ^2 /NDF: 3745936.7/65

In: 126.739 $\pm$ 0.015 χ^2 /NDF: 1971177.9/54

Out: 125.489 $\pm$ 0.015 χ^2 /NDF: 2829564.0/58

All: 126.103 $\pm$ 0.011 χ^2 /NDF: 4804069.1/113

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -981.541+/-370.731 χ^2/NDF : 45.6/31

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1352.834+/-363.683 χ^2/NDF : 31.5/33

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

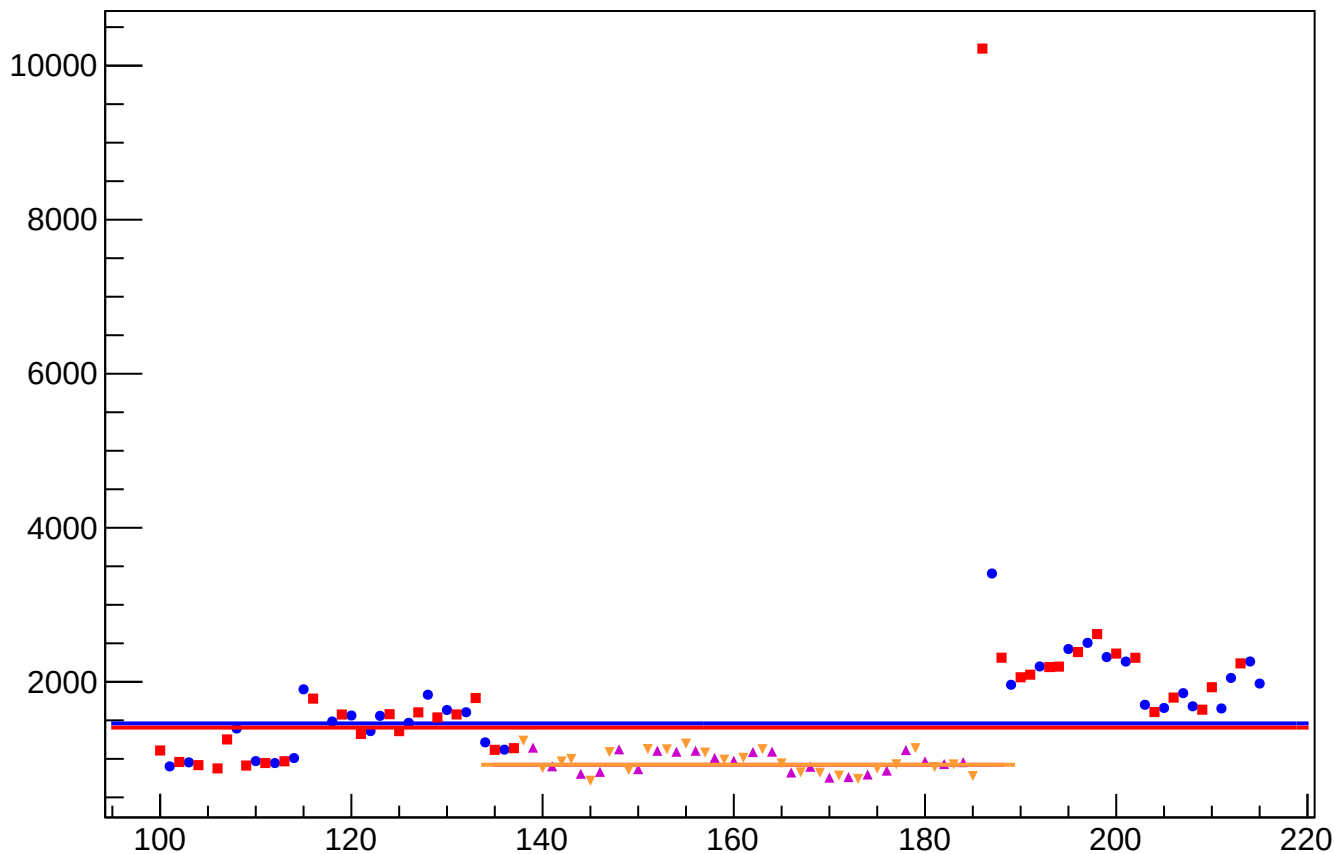
Right: 208.048+/-259.619 χ^2/NDF : 97.3/65

In: -106.154+/-191.280 χ^2/NDF : 78.9/54

Out: -365.358+/-186.994 χ^2/NDF : 109.0/58

All: -238.692+/-133.714 χ^2/NDF : 188.9/113

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1459.833+/-0.262 χ^2/NDF : 3420271.8/31

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1405.940+/-0.257 χ^2/NDF : 4436961.8/33

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

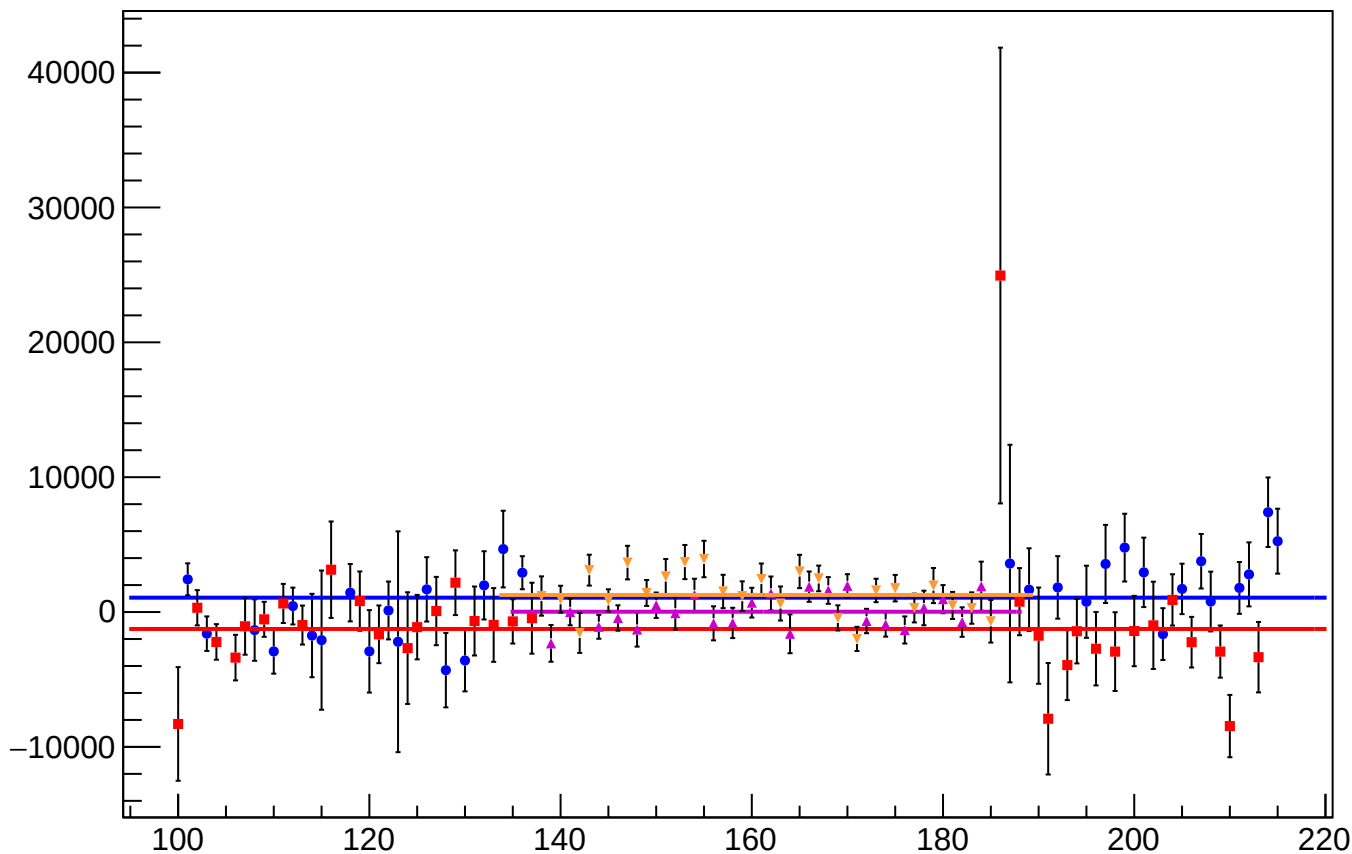
Right: 1432.369+/-0.184 χ^2/NDF : 7878771.2/65

In: 1065.354+/-0.135 χ^2/NDF : 7140900.5/54

Out: 1051.106+/-0.132 χ^2/NDF : 7867790.0/58

All: 1058.069+/-0.095 χ^2/NDF : 15014365.1/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1066.082 ± 372.285 $\chi^2/\text{NDF}: 45.4/31$

Left Out: 1267.344 ± 220.133 $\chi^2/\text{NDF}: 44.9/24$

Right Out: -1254.671 ± 365.396 $\chi^2/\text{NDF}: 33.6/33$

Left In: 23.478 ± 225.490 $\chi^2/\text{NDF}: 27.2/22$

Left: 660.362 ± 157.518 $\chi^2/\text{NDF}: 87.7/47$

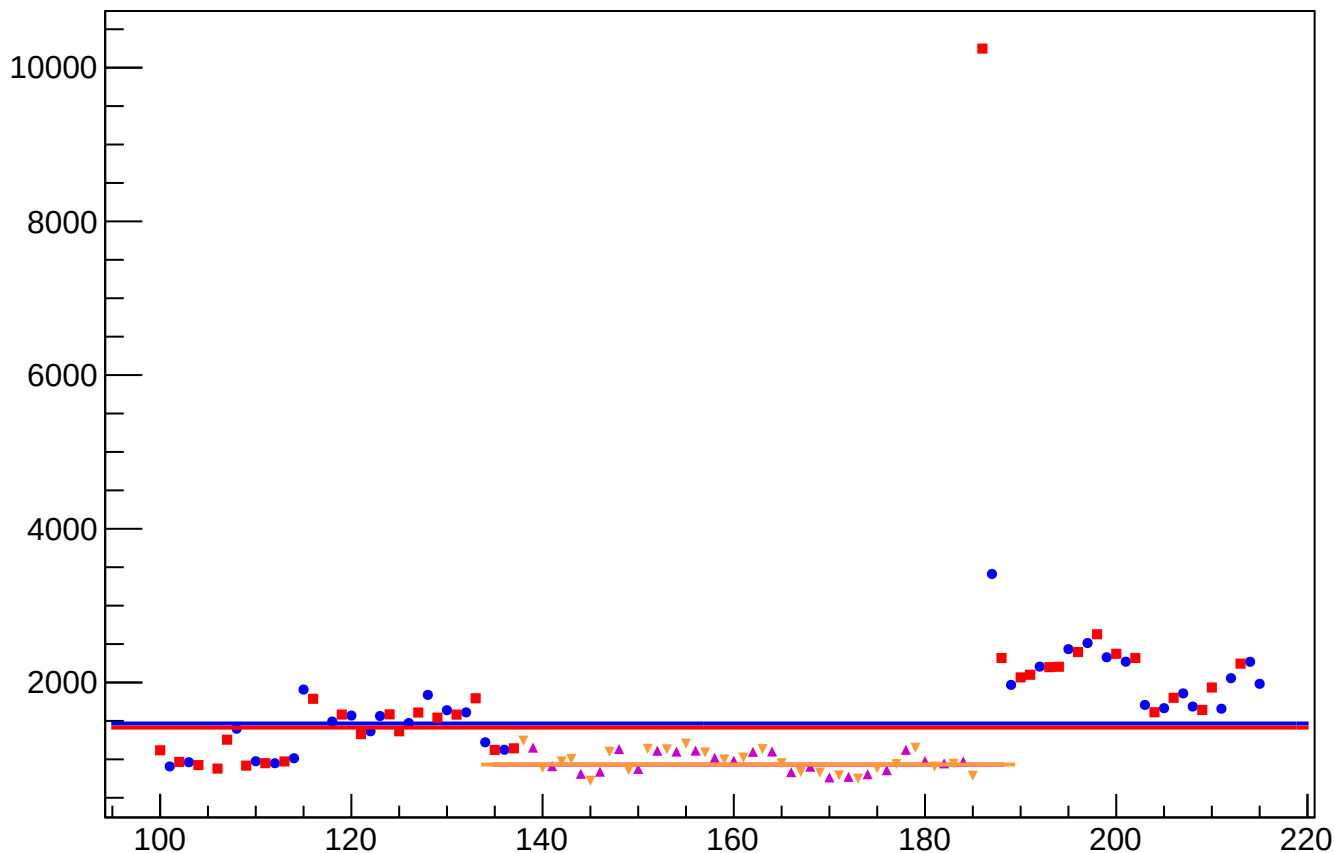
Right: -115.966 ± 260.775 $\chi^2/\text{NDF}: 98.8/65$

In: 303.311 ± 192.870 $\chi^2/\text{NDF}: 78.3/54$

Out: 595.741 ± 188.558 $\chi^2/\text{NDF}: 113.5/58$

All: 452.831 ± 134.830 $\chi^2/\text{NDF}: 193.0/113$

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1466.524+/-0.263 χ^2/NDF : 3397401.9/31

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1413.007+/-0.258 χ^2/NDF : 4410731.8/33

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

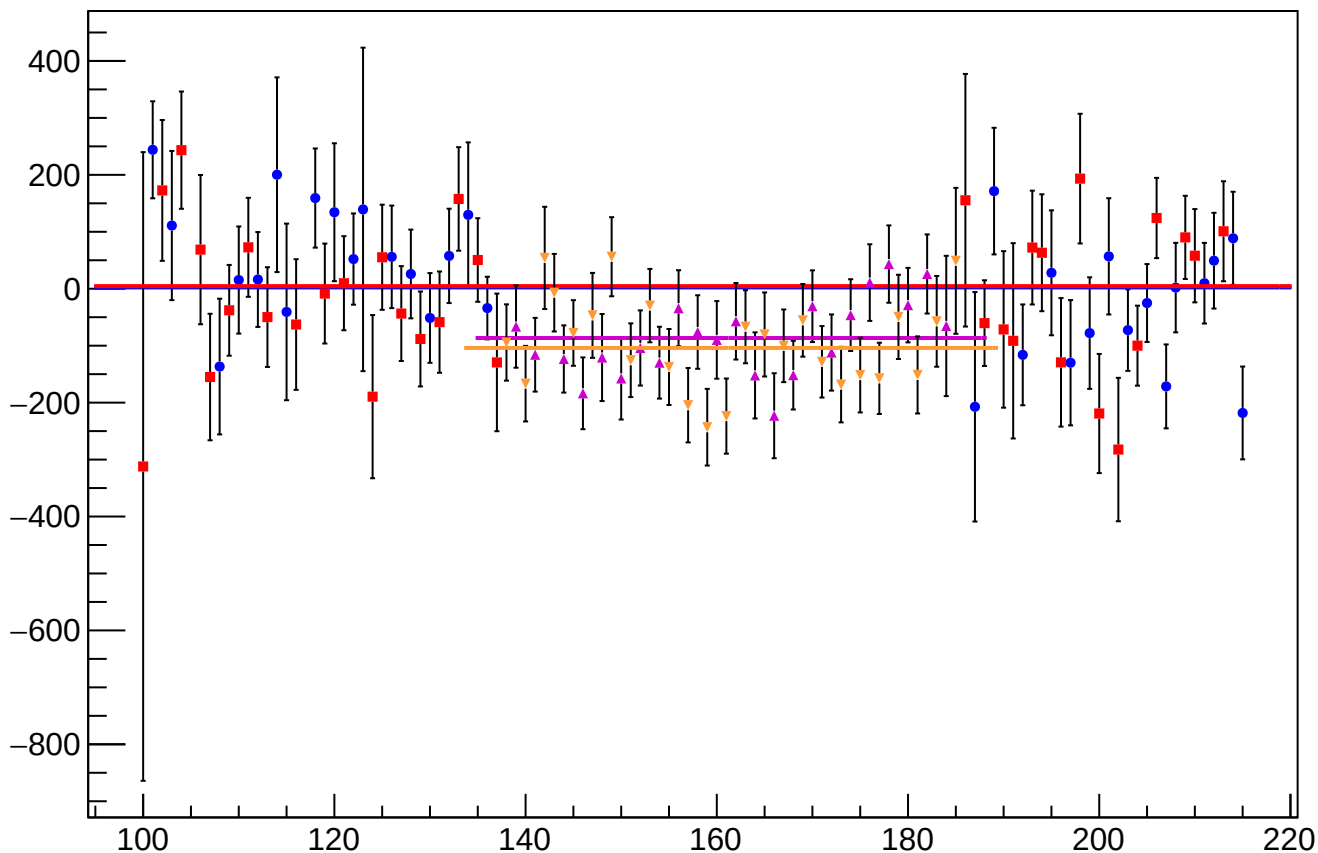
Right: 1439.266+/-0.184 χ^2/NDF : 7829184.3/65

In: 1075.094+/-0.136 χ^2/NDF : 7043961.4/54

Out: 1060.651+/-0.133 χ^2/NDF : 7775345.7/58

All: 1067.709+/-0.095 χ^2/NDF : 14825041.6/113

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 2.344 ± 15.910 χ^2/NDF : 42.6/31

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: 4.594 ± 16.464 χ^2/NDF : 44.8/33

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

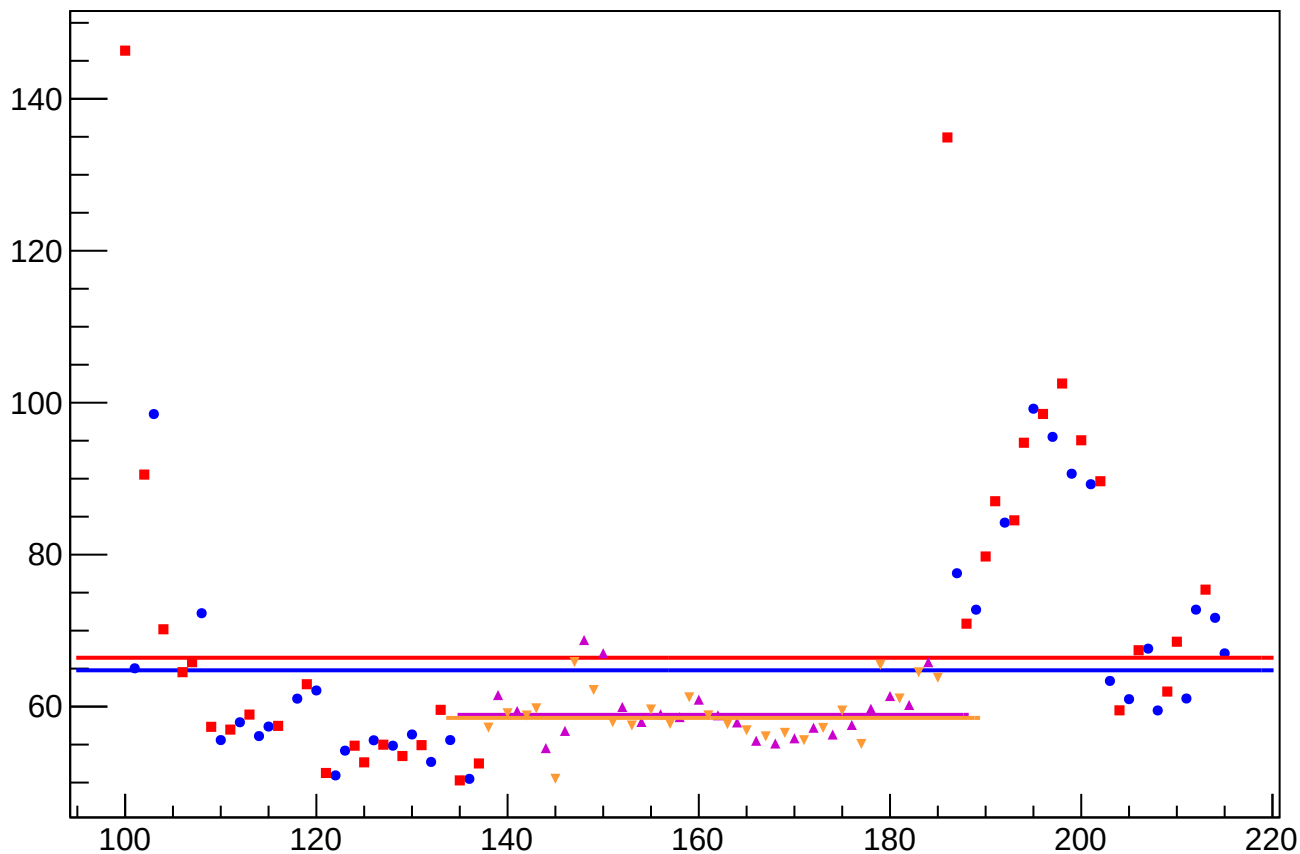
Right: 3.430 ± 11.441 χ^2/NDF : 87.4/65

In: -47.379 ± 10.561 χ^2/NDF : 81.5/54

Out: -59.734 ± 10.505 χ^2/NDF : 100.5/58

All: -53.590 ± 7.448 χ^2/NDF : 182.7/113

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.776 ± 0.011 $\chi^2/\text{NDF}: 1294997.6/31$

Left Out: 58.513 ± 0.010 $\chi^2/\text{NDF}: 123221.6/24$

Right Out: 66.431 ± 0.012 $\chi^2/\text{NDF}: 1672347.0/33$

Left In: 58.913 ± 0.010 $\chi^2/\text{NDF}: 109968.0/22$

Left: 58.706 ± 0.007 $\chi^2/\text{NDF}: 234021.7/47$

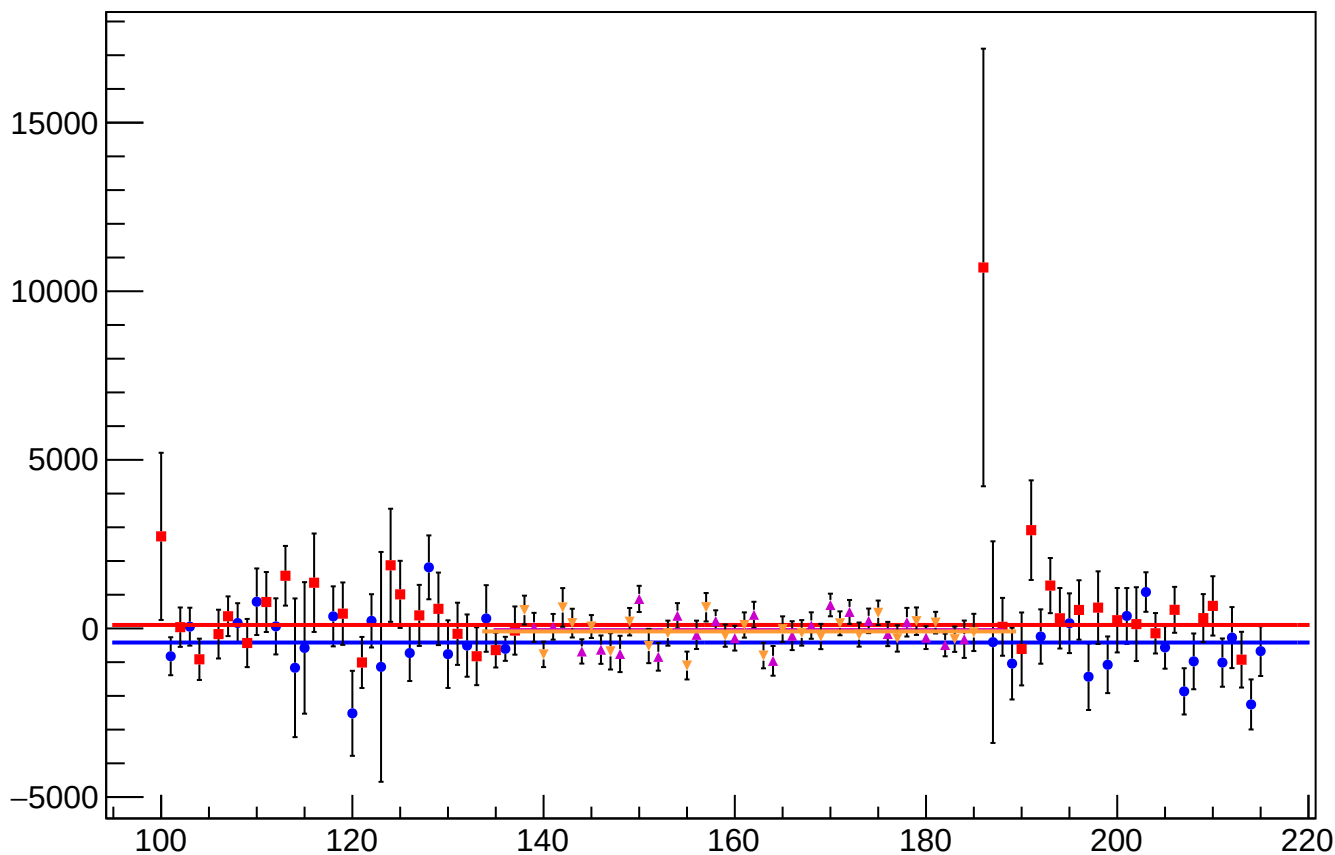
Right: 65.575 ± 0.008 $\chi^2/\text{NDF}: 2977792.5/65$

In: 61.497 ± 0.007 $\chi^2/\text{NDF}: 1556886.3/54$

Out: 61.736 ± 0.007 $\chi^2/\text{NDF}: 2069840.2/58$

All: 61.617 ± 0.005 $\chi^2/\text{NDF}: 3627244.3/113$

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -417.381 ± 137.428 χ^2/NDF : 36.9/31

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 103.611 ± 142.397 χ^2/NDF : 28.7/33

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

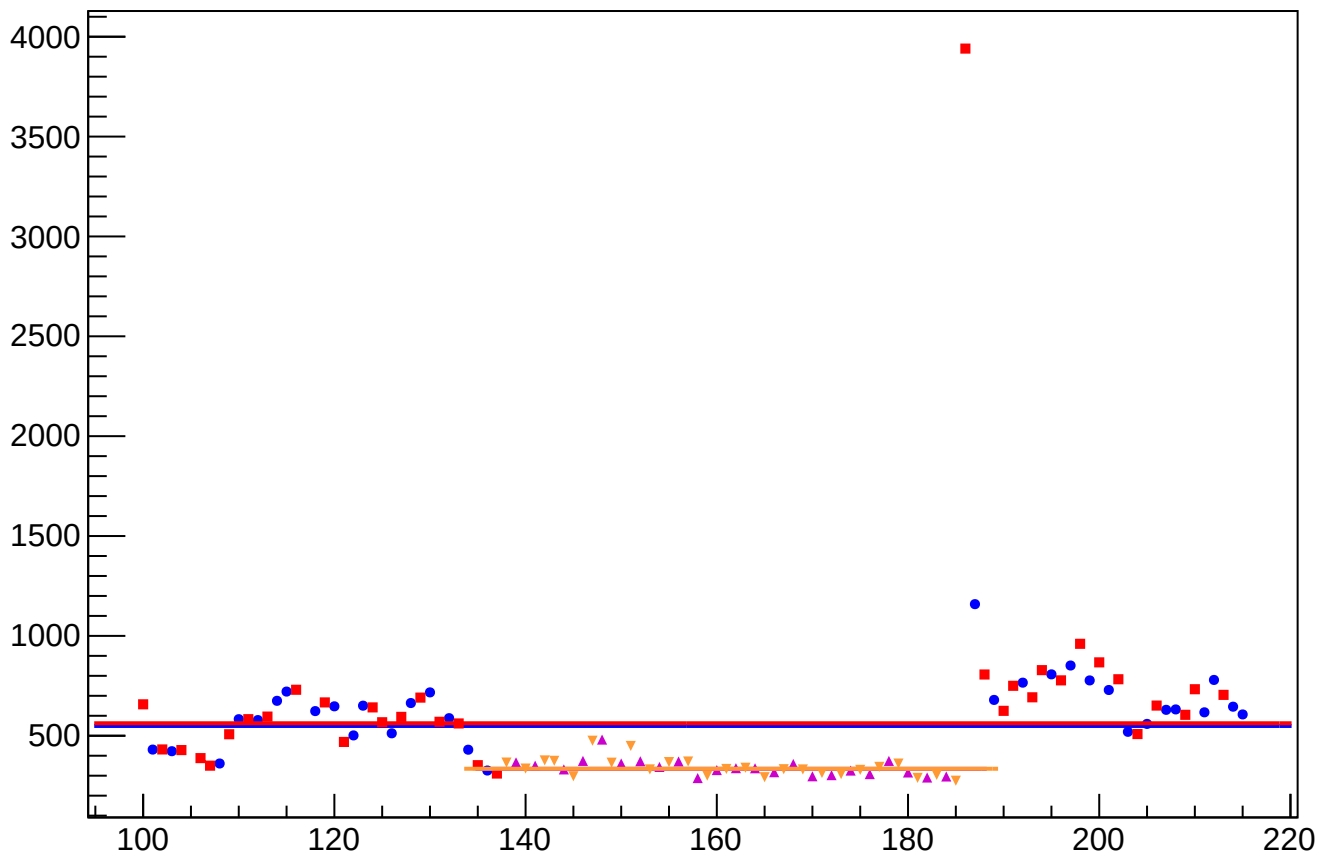
Right: -166.133 ± 98.886 χ^2/NDF : 72.5/65

In: -142.998 ± 69.491 χ^2/NDF : 77.5/54

Out: -42.876 ± 68.784 χ^2/NDF : 57.9/58

All: -92.425 ± 48.886 χ^2/NDF : 136.4/113

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 549.055+/-0.097 χ^2/NDF : 2469178.2/31

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 562.528+/-0.101 χ^2/NDF : 3127171.0/33

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

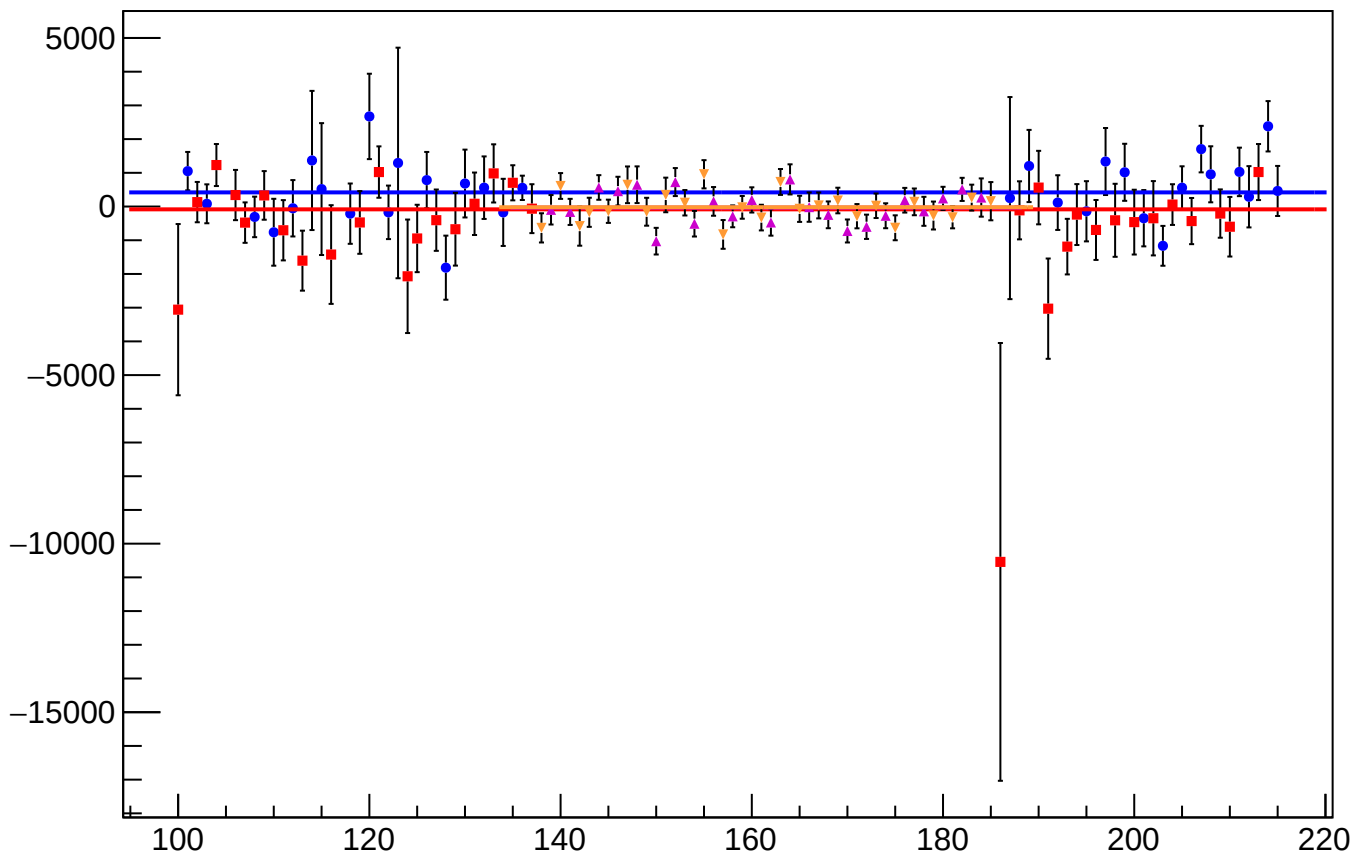
Right: 555.552+/-0.070 χ^2/NDF : 5605618.5/65

In: 389.096+/-0.049 χ^2/NDF : 6506708.8/54

Out: 387.896+/-0.049 χ^2/NDF : 7541950.7/58

All: 388.490+/-0.035 χ^2/NDF : 14048960.6/111

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 419.614+/-138.718 χ^2/NDF : 37.6/31

Left Out: -20.895+/-79.812 χ^2/NDF :27.2/24

Right Out: -83.390+/-143.822 χ^2/NDF : 31.9/33

Left In: -31.800+/-81.839 χ^2/NDF :34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

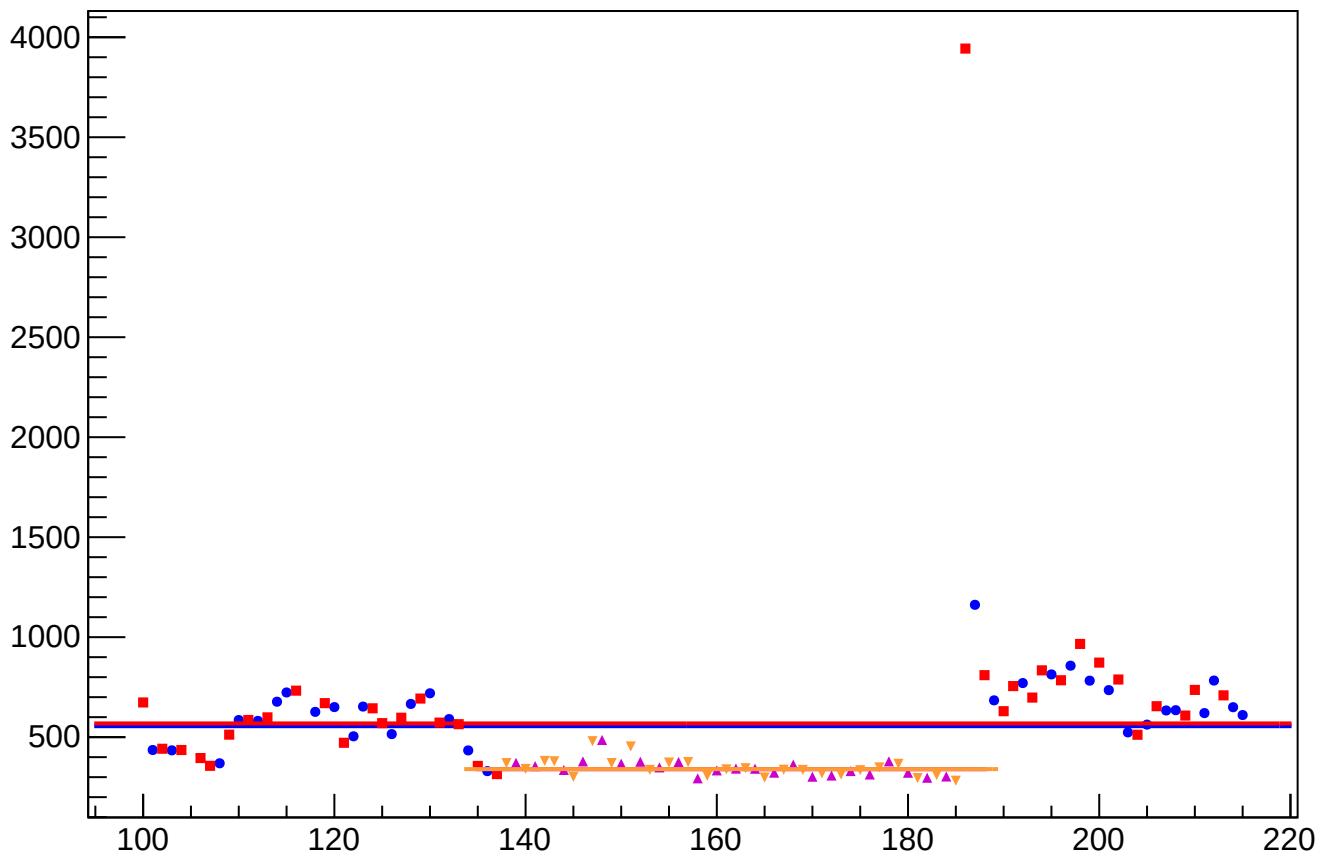
Right: 177.194+/-99.844 χ^2/NDF : 75.8/65

In: 84.753+/-70.487 χ^2/NDF :79.5/54

Out: -35.610+/-69.786 χ^2/NDF :59.2/58

All: 23.971+/-49.592 χ^2/NDF : 140.2/113

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 554.845 $\pm$ 0.098 χ^2 /NDF: 2400330.6/31

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 568.741 $\pm$ 0.102 χ^2 /NDF: 3056016.5/33

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

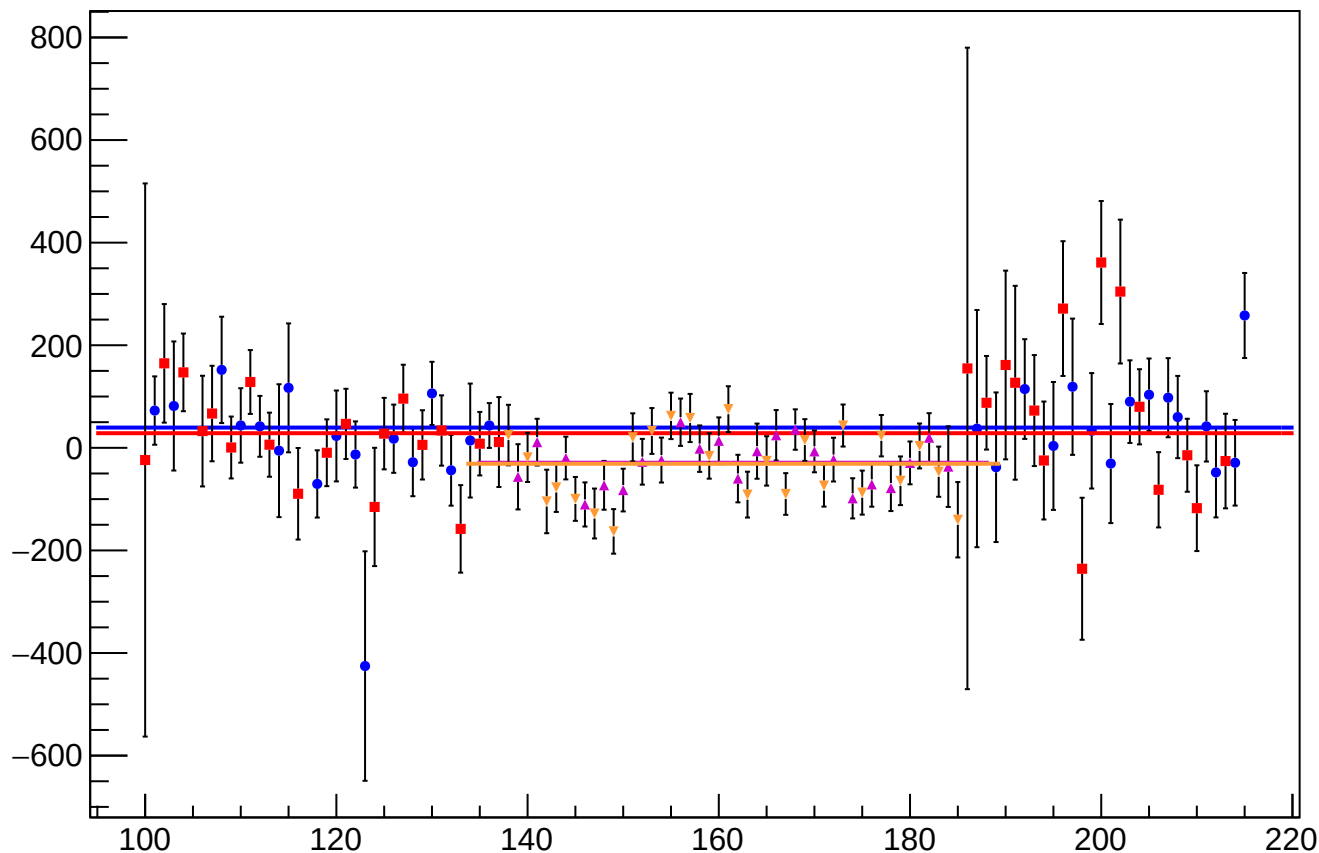
Right: 561.542 $\pm$ 0.071 χ^2 /NDF: 5466020.4/65

In: 395.191 $\pm$ 0.050 χ^2 /NDF: 6351483.2/54

Out: 394.038 $\pm$ 0.049 χ^2 /NDF: 7384770.7/58

All: 394.609 $\pm$ 0.035 χ^2 /NDF: 13736523.9/111

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 39.484+/-14.305 χ^2/NDF : 25.8/31

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 28.511+/-14.600 χ^2/NDF : 43.5/33

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

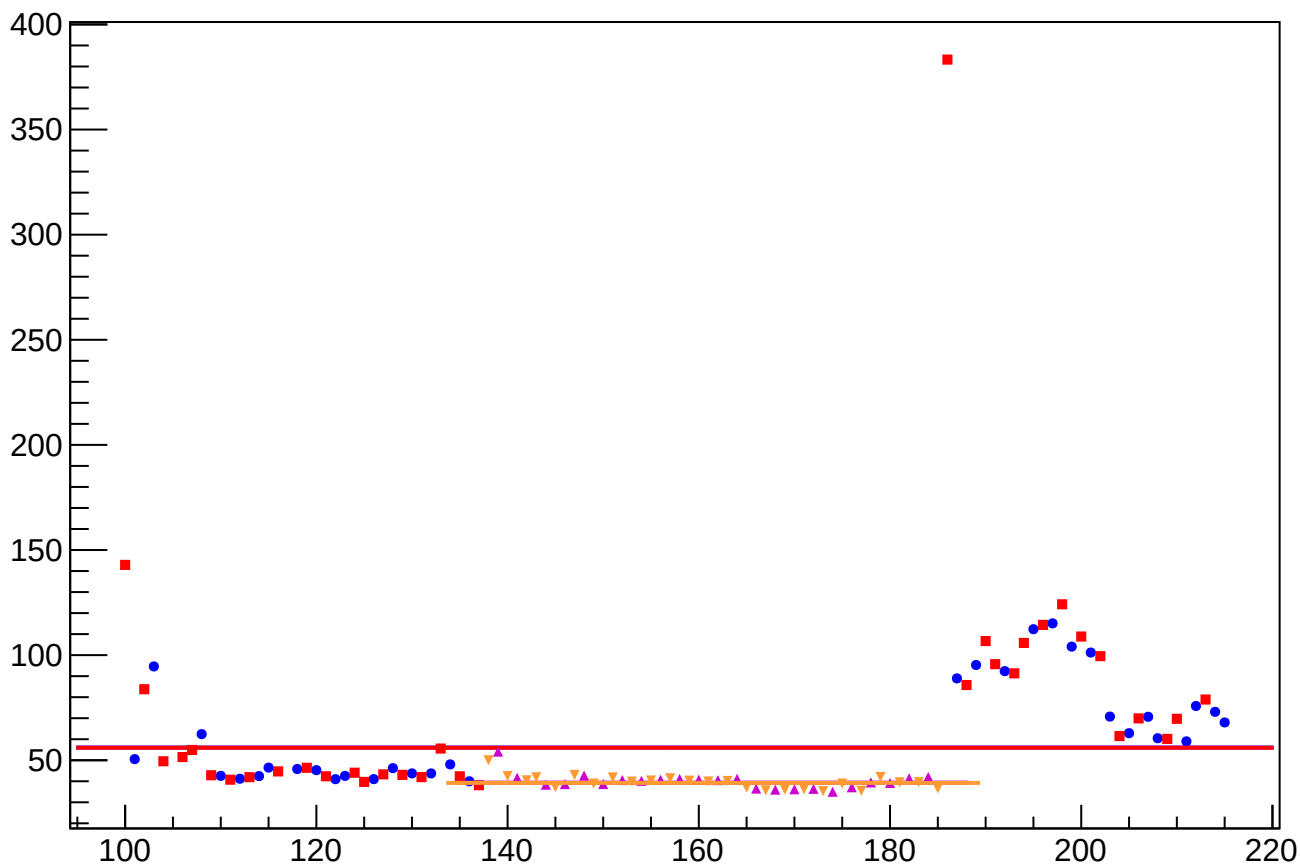
Right: 34.110+/-10.218 χ^2/NDF : 69.7/65

In: -8.234+/-7.885 χ^2/NDF : 64.3/54

Out: -14.210+/-7.765 χ^2/NDF : 108.1/58

All: -11.268+/-5.533 χ^2/NDF : 172.6/113

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.049 $\pm$ 0.010 χ^2 /NDF: 3528453.2/31

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 55.952 $\pm$ 0.010 χ^2 /NDF: 4517704.3/33

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

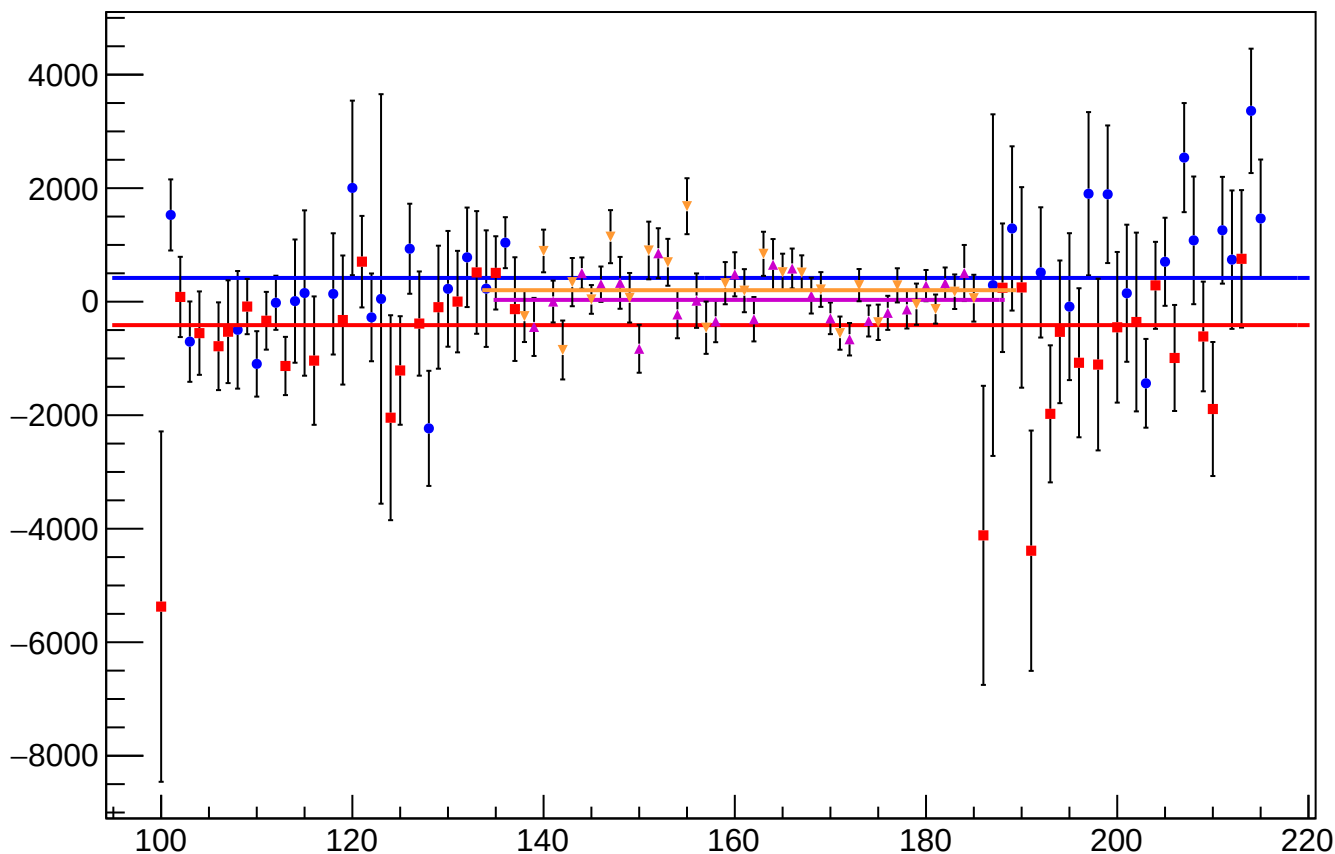
Right: 56.001 $\pm$ 0.007 χ^2 /NDF: 8046202.8/65

In: 44.415 $\pm$ 0.006 χ^2 /NDF: 5644230.1/54

Out: 43.964 $\pm$ 0.005 χ^2 /NDF: 6600008.4/58

All: 44.186 $\pm$ 0.004 χ^2 /NDF: 12247558.6/113

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 418.304 $\pm$ 157.121 χ^2 /NDF: 48.9/31

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -412.999 $\pm$ 156.051 χ^2 /NDF: 24.6/33

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

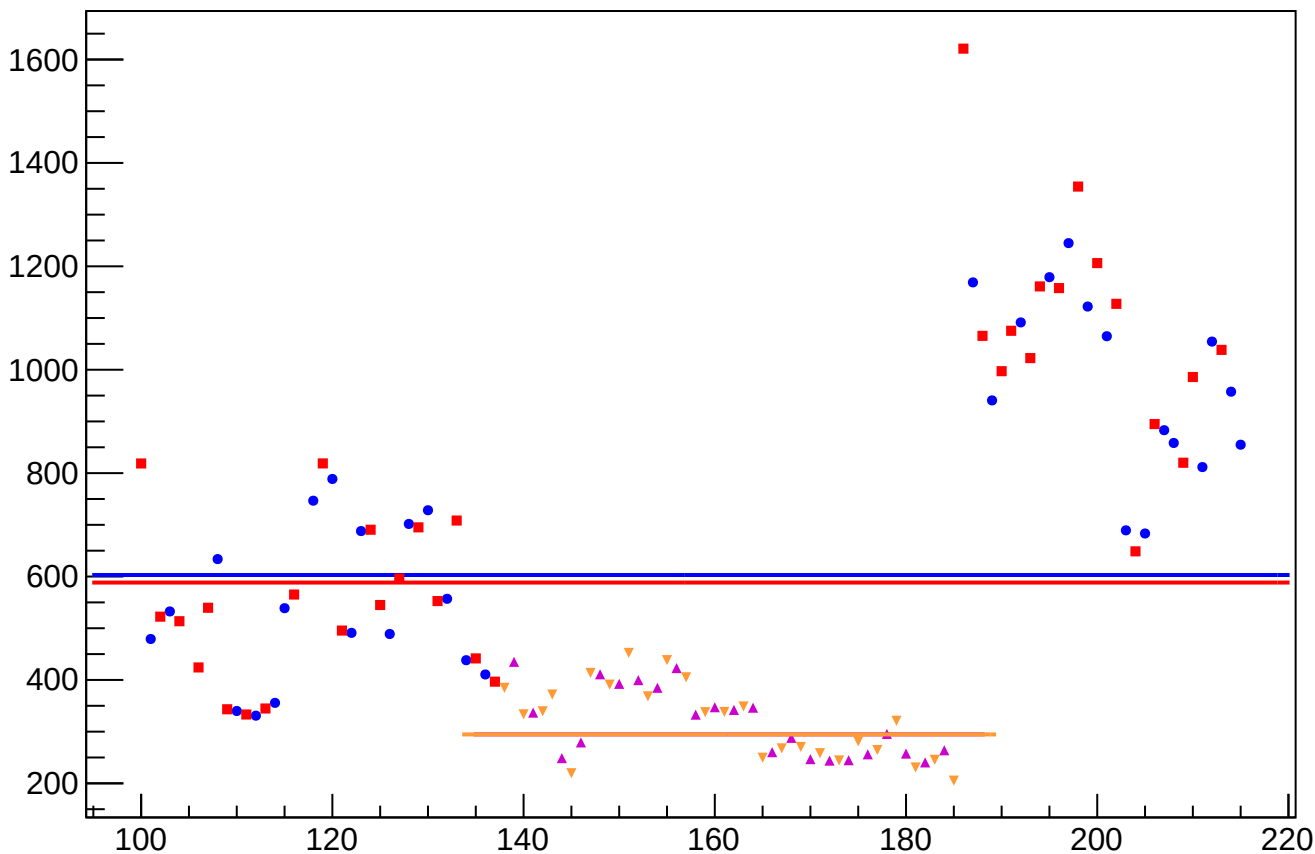
Right: -0.188 $\pm$ 110.721 χ^2 /NDF: 87.6/65

In: 98.822 $\pm$ 65.530 χ^2 /NDF:87.3/54

Out: 98.244 $\pm$ 64.192 χ^2 /NDF:82.4/58

All: 98.527 $\pm$ 45.856 χ^2 /NDF: 169.6/113

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 602.991+/-0.111 χ^2/NDF : 4912548.3/31

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 588.356+/-0.110 χ^2/NDF : 5917644.2/33

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

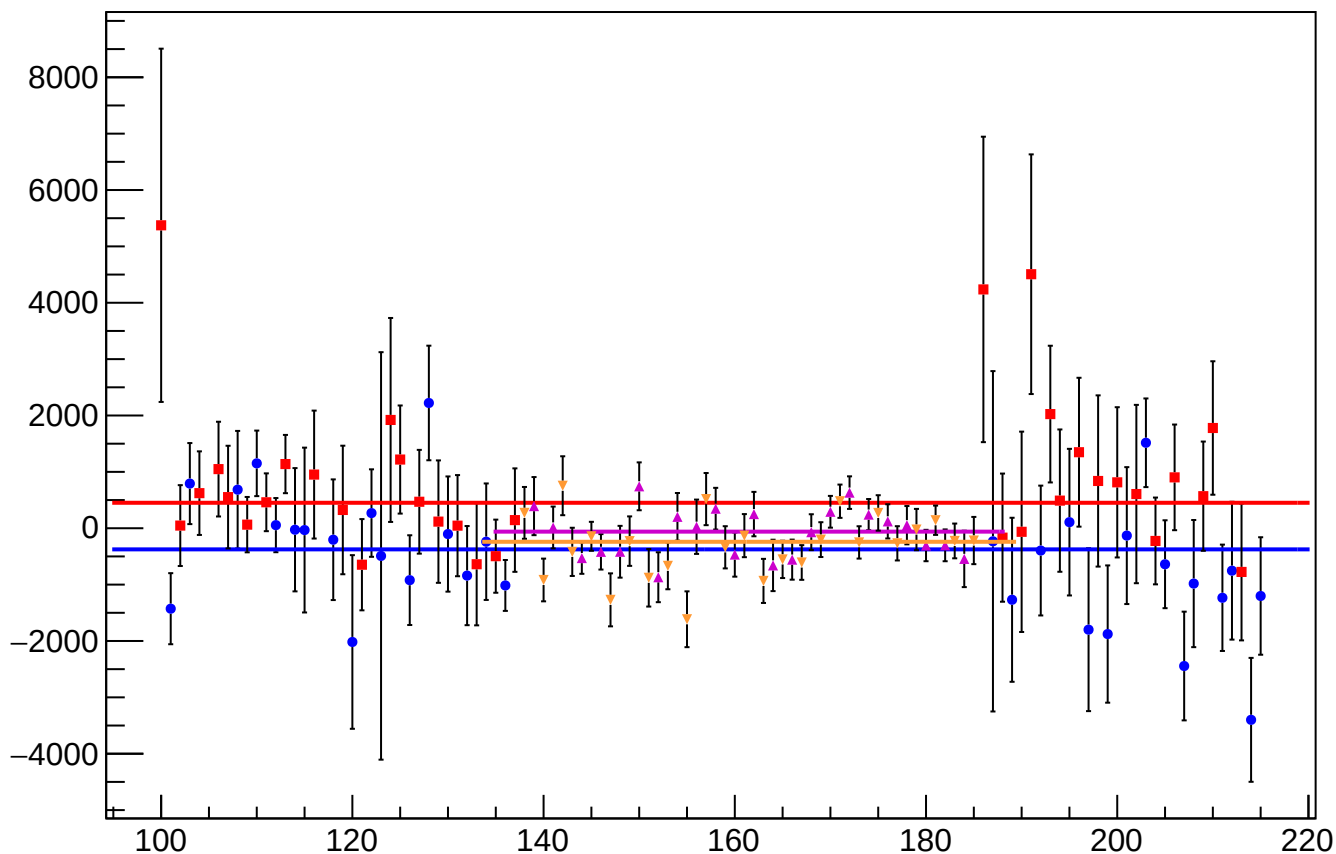
Right: 595.624+/-0.078 χ^2/NDF : 10838927.5/65

In: 348.344+/-0.046 χ^2/NDF : 12569467.5/54

Out: 344.299+/-0.045 χ^2/NDF : 13486382.9/58

All: 346.280+/-0.032 χ^2/NDF : 26059738.6/11

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -374.864 ± 157.989 $\chi^2/\text{NDF}: 48.5/31$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 451.658 ± 157.448 $\chi^2/\text{NDF}: 24.2/33$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

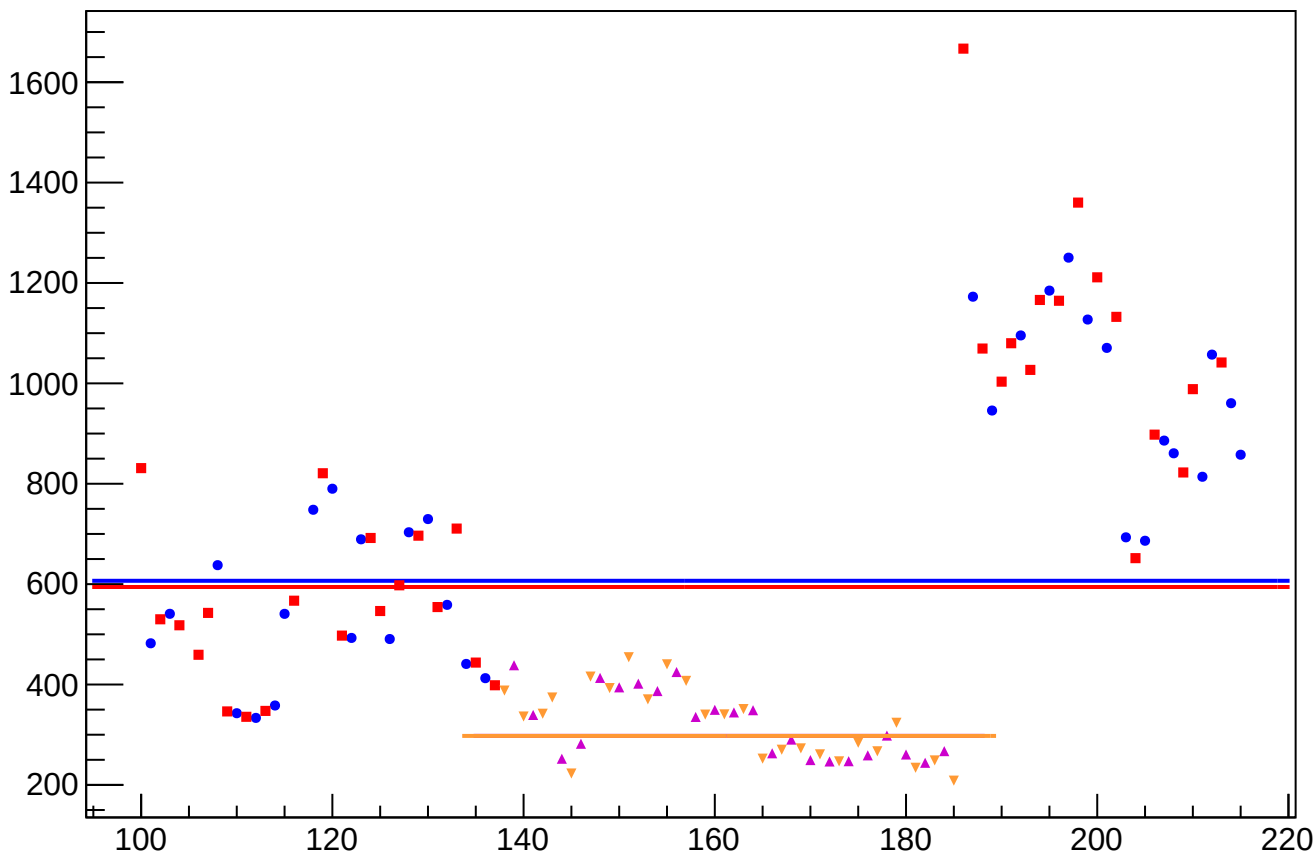
Right: 39.815 ± 111.523 $\chi^2/\text{NDF}: 86.4/65$

In: -115.403 ± 66.109 $\chi^2/\text{NDF}: 82.7/54$

Out: -123.141 ± 64.800 $\chi^2/\text{NDF}: 83.2/58$

All: -119.349 ± 46.276 $\chi^2/\text{NDF}: 165.9/113$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 606.663 $\pm$ 0.112 χ^2 /NDF: 4881077.3/31

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF: 1637757.8/24

Right Out: 594.297 $\pm$ 0.111 χ^2 /NDF: 5849283.7/33

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF: 1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

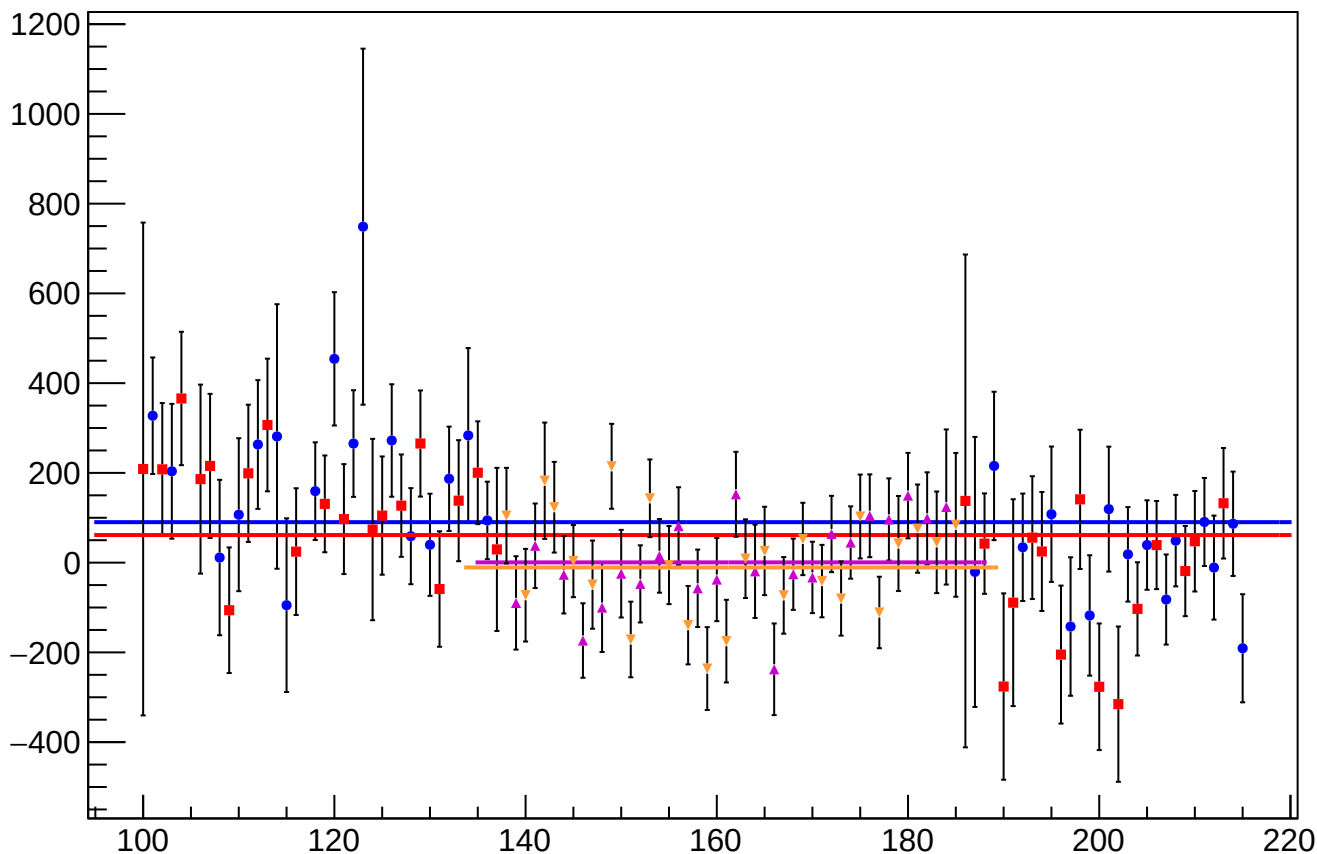
Right: 600.458 $\pm$ 0.079 χ^2 /NDF: 10736508.4/65

In: 351.797 $\pm$ 0.047 χ^2 /NDF: 12456879.5/54

Out: 347.866 $\pm$ 0.046 χ^2 /NDF: 13385568.1/58

All: 349.792 $\pm$ 0.033 χ^2 /NDF: 25846053.6/111

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 90.203 ± 22.671 $\chi^2/\text{NDF}: 38.0/31$

Left Out: -10.667 ± 18.610 $\chi^2/\text{NDF}: 36.3/24$

Right Out: 61.495 ± 23.607 $\chi^2/\text{NDF}: 38.7/33$

Left In: 0.575 ± 19.091 $\chi^2/\text{NDF}: 23.8/22$

Left: -5.190 ± 13.326 $\chi^2/\text{NDF}: 60.3/47$

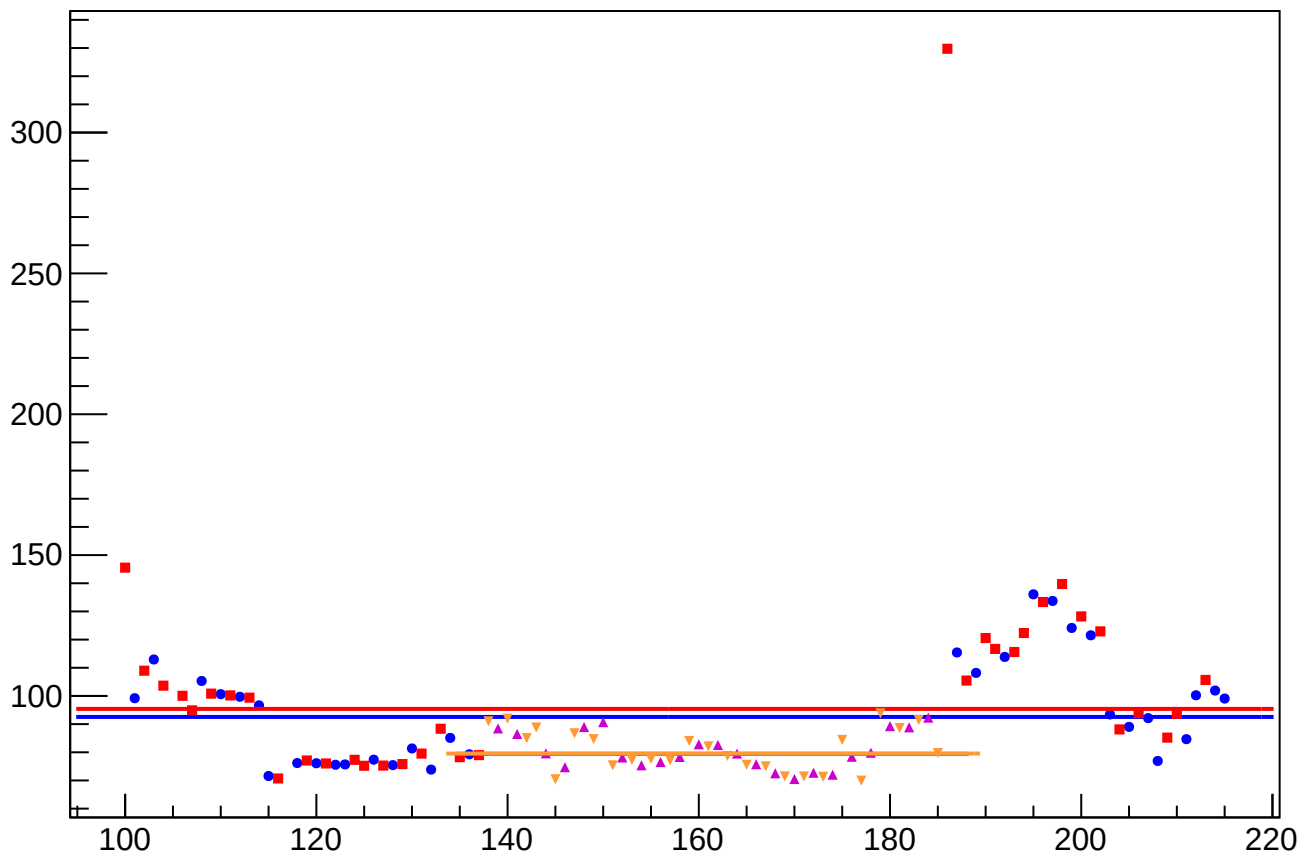
Right: 76.430 ± 16.352 $\chi^2/\text{NDF}: 77.5/65$

In: 37.762 ± 14.603 $\chi^2/\text{NDF}: 70.9/54$

Out: 16.990 ± 14.615 $\chi^2/\text{NDF}: 80.8/58$

All: 27.384 ± 10.330 $\chi^2/\text{NDF}: 152.7/113$

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.548 $\pm$ 0.016 χ^2 /NDF: 1091671.9/31

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 95.399 $\pm$ 0.017 χ^2 /NDF: 1535222.8/33

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

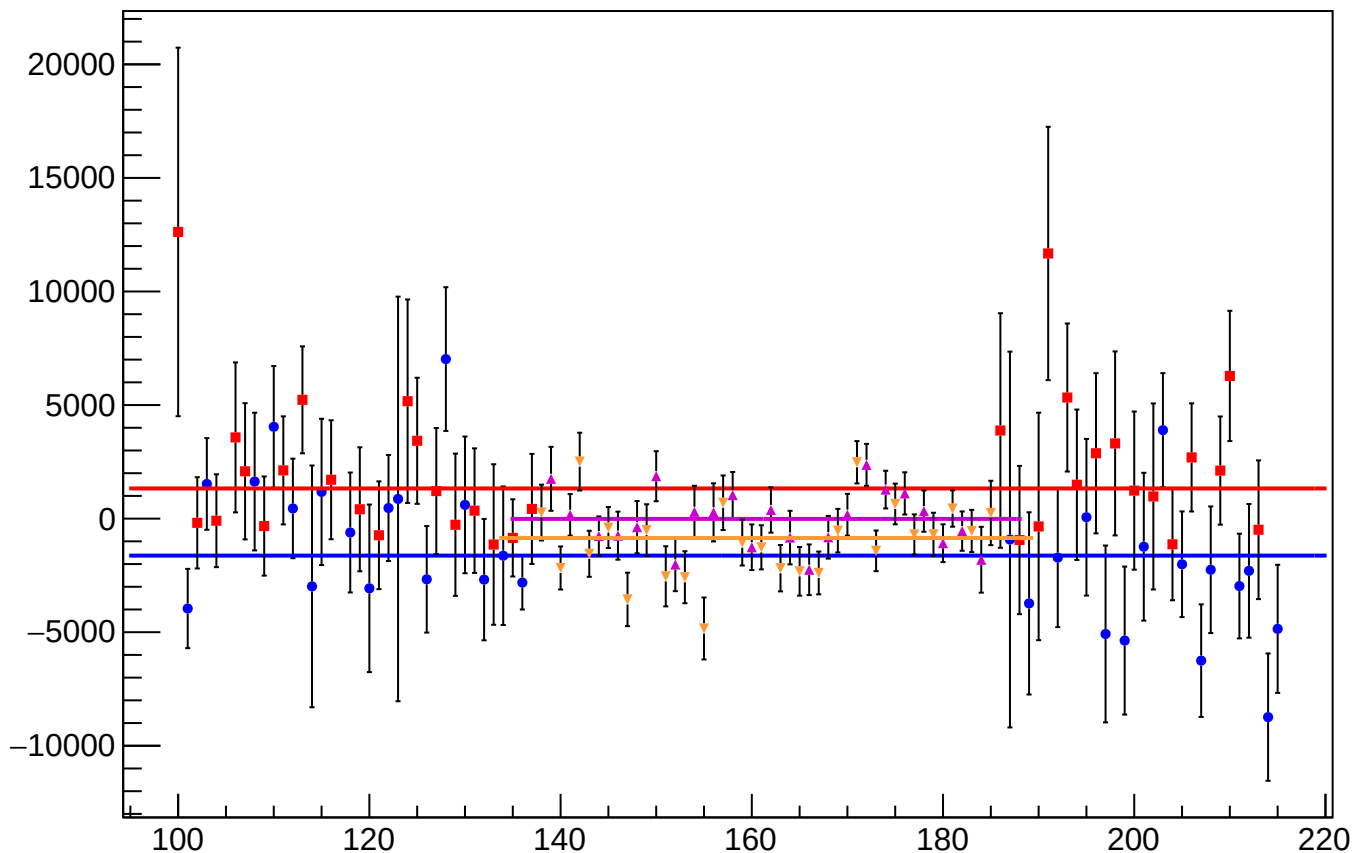
Right: 93.916 $\pm$ 0.012 χ^2 /NDF: 2642069.1/65

In: 84.877 $\pm$ 0.010 χ^2 /NDF:1695504.5/54

Out: 85.625 $\pm$ 0.010 χ^2 /NDF:2400184.6/58

All: 85.250 $\pm$ 0.007 χ^2 /NDF: 4098313.0/113

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1628.275 $\pm$ 464.177 χ^2 /NDF: 41.3/31

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF: 56.0/24

Right Out: 1328.785 $\pm$ 482.824 χ^2 /NDF: 22.8/33

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF: 31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

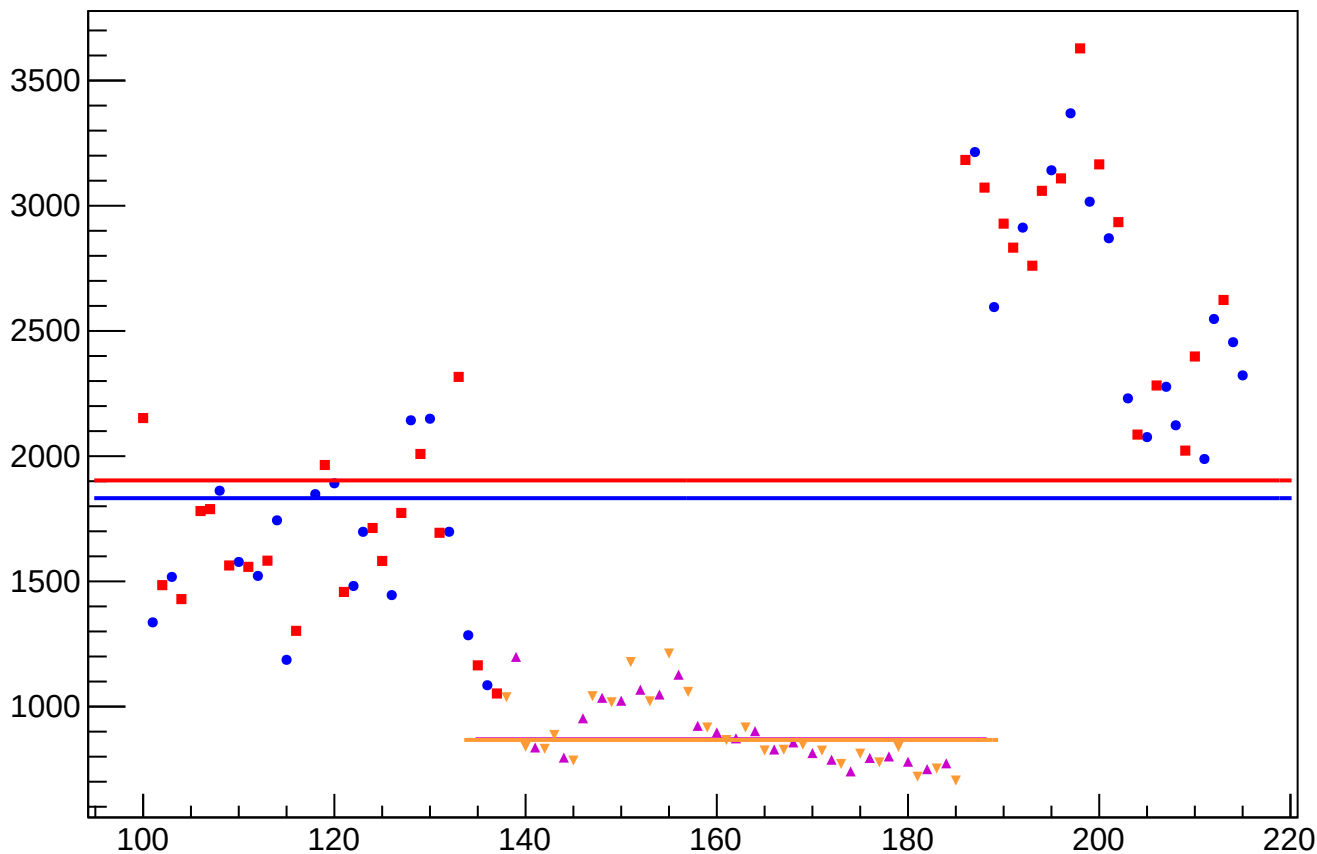
Right: -207.947 $\pm$ 334.621 χ^2 /NDF: 83.6/65

In: -286.508 $\pm$ 191.386 χ^2 /NDF: 82.6/54

Out: -523.221 $\pm$ 187.986 χ^2 /NDF: 96.1/58

All: -406.986 $\pm$ 134.112 χ^2 /NDF: 179.5/113

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1832.285+/-0.328 χ^2/NDF : 3245700.4/31

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1903.113+/-0.341 χ^2/NDF : 3331738.0/33

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

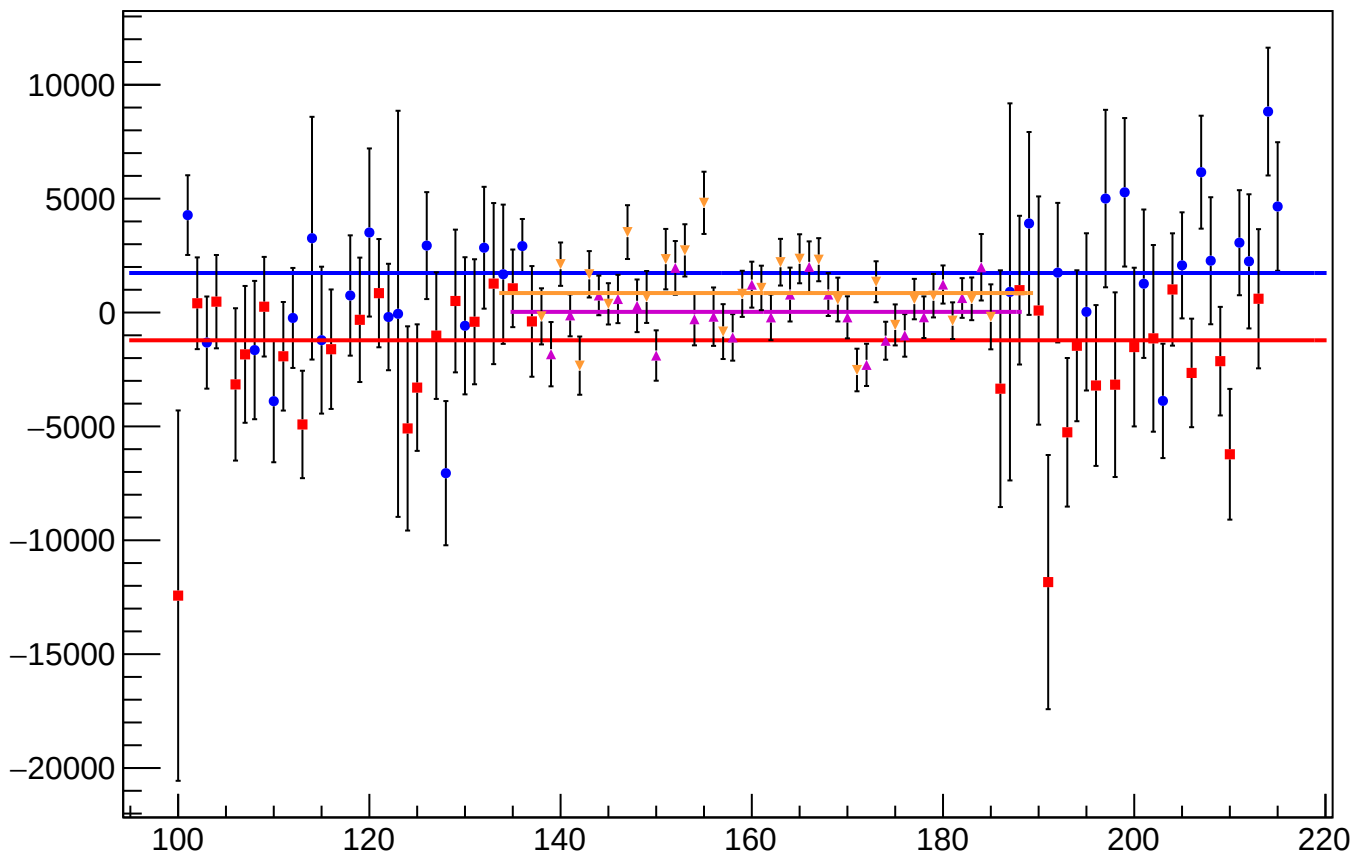
Right: 1866.305+/-0.237 χ^2/NDF : 6599805.5/65

In: 1033.231+/-0.135 χ^2/NDF : 10968627.2/54

Out: 1023.974+/-0.133 χ^2/NDF : 11809048.5/58

All: 1028.520+/-0.095 χ^2/NDF : 22780056.9/113

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1735.867 ± 464.936 $\chi^2/\text{NDF}: 41.1/31$

Left Out: 855.664 ± 205.047 $\chi^2/\text{NDF}: 54.1/24$

Right Out: -1219.278 ± 483.711 $\chi^2/\text{NDF}: 22.7/33$

Left In: 28.553 ± 211.034 $\chi^2/\text{NDF}: 29.7/22$

Left: 454.007 ± 147.061 $\chi^2/\text{NDF}: 91.7/47$

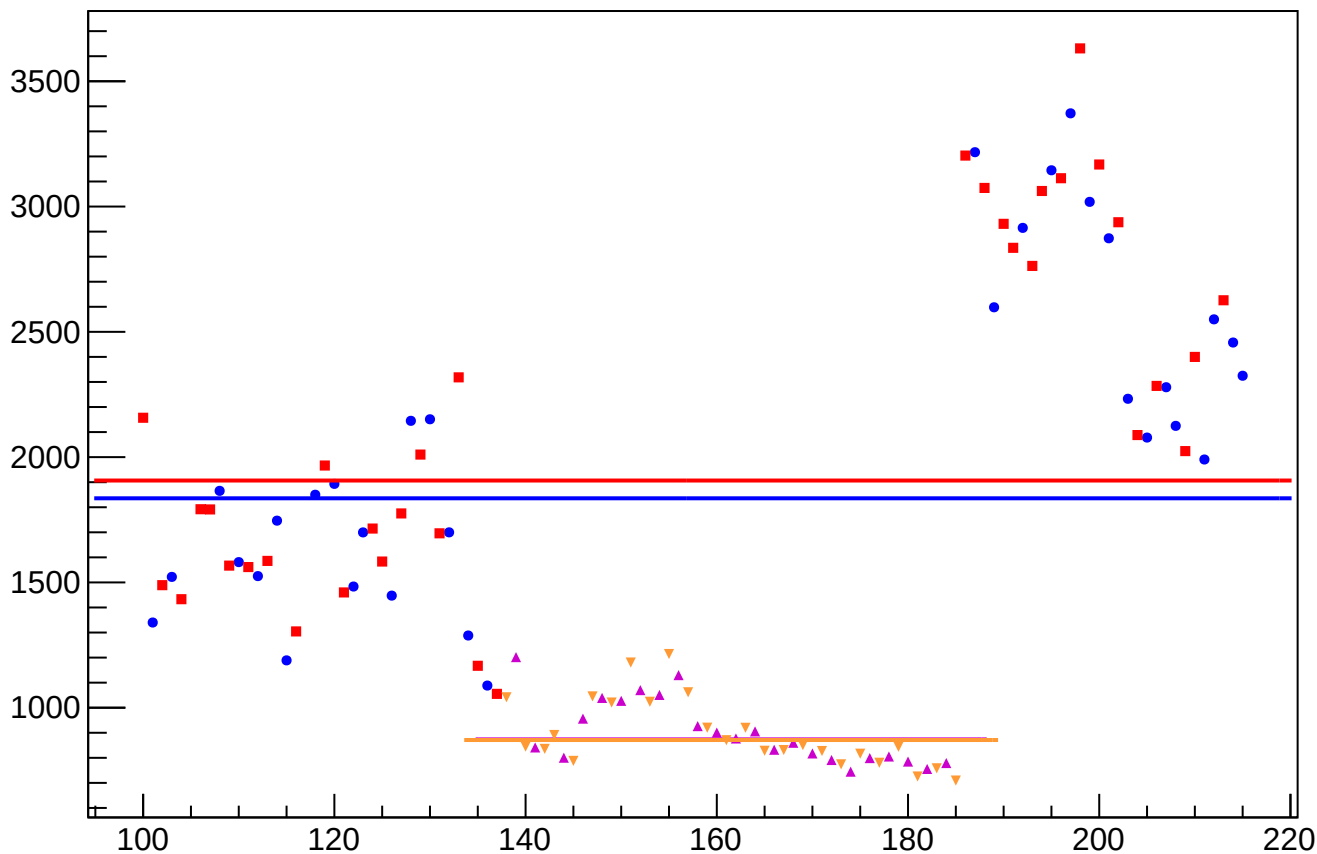
Right: 316.757 ± 335.200 $\chi^2/\text{NDF}: 83.2/65$

In: 320.212 ± 192.165 $\chi^2/\text{NDF}: 82.0/54$

Out: 539.603 ± 188.785 $\chi^2/\text{NDF}: 92.4/58$

All: 431.854 ± 134.670 $\chi^2/\text{NDF}: 175.1/113$

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1835.704+/-0.329 χ^2 /NDF: 3231980.9/31

Left Out: 871.109+/-0.145 χ^2 /NDF: 651751.1/24

Right Out: 1906.664+/-0.342 χ^2 /NDF: 3322359.1/33

Left In: 873.675+/-0.149 χ^2 /NDF: 573822.5/22

Left: 872.355+/-0.104 χ^2 /NDF: 1225725.6/47

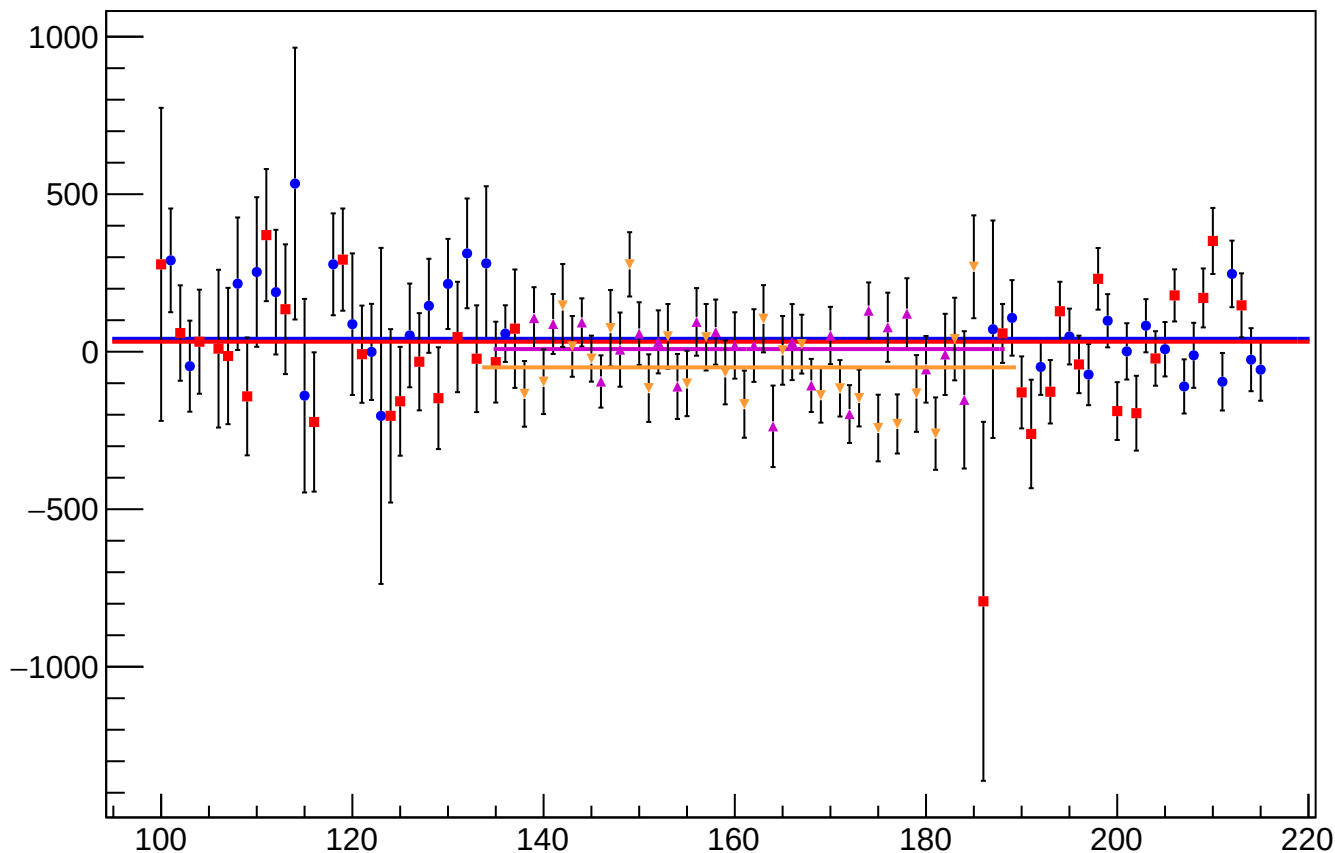
Right: 1869.780+/-0.237 χ^2 /NDF: 6576712.1/65

In: 1038.018+/-0.136 χ^2 /NDF: 10905898.9/54

Out: 1028.848+/-0.133 χ^2 /NDF: 11744370.5/58

All: 1033.351+/-0.095 χ^2 /NDF: 22652586.9/113

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 40.980 ± 21.347 χ^2/NDF : 28.8/31

Left Out: -49.717 ± 20.580 χ^2/NDF : 39.4/24

Right Out: 31.721 ± 22.269 χ^2/NDF : 52.9/33

Left In: 8.343 ± 21.271 χ^2/NDF : 22.0/22

Left: -21.646 ± 14.791 χ^2/NDF : 65.3/47

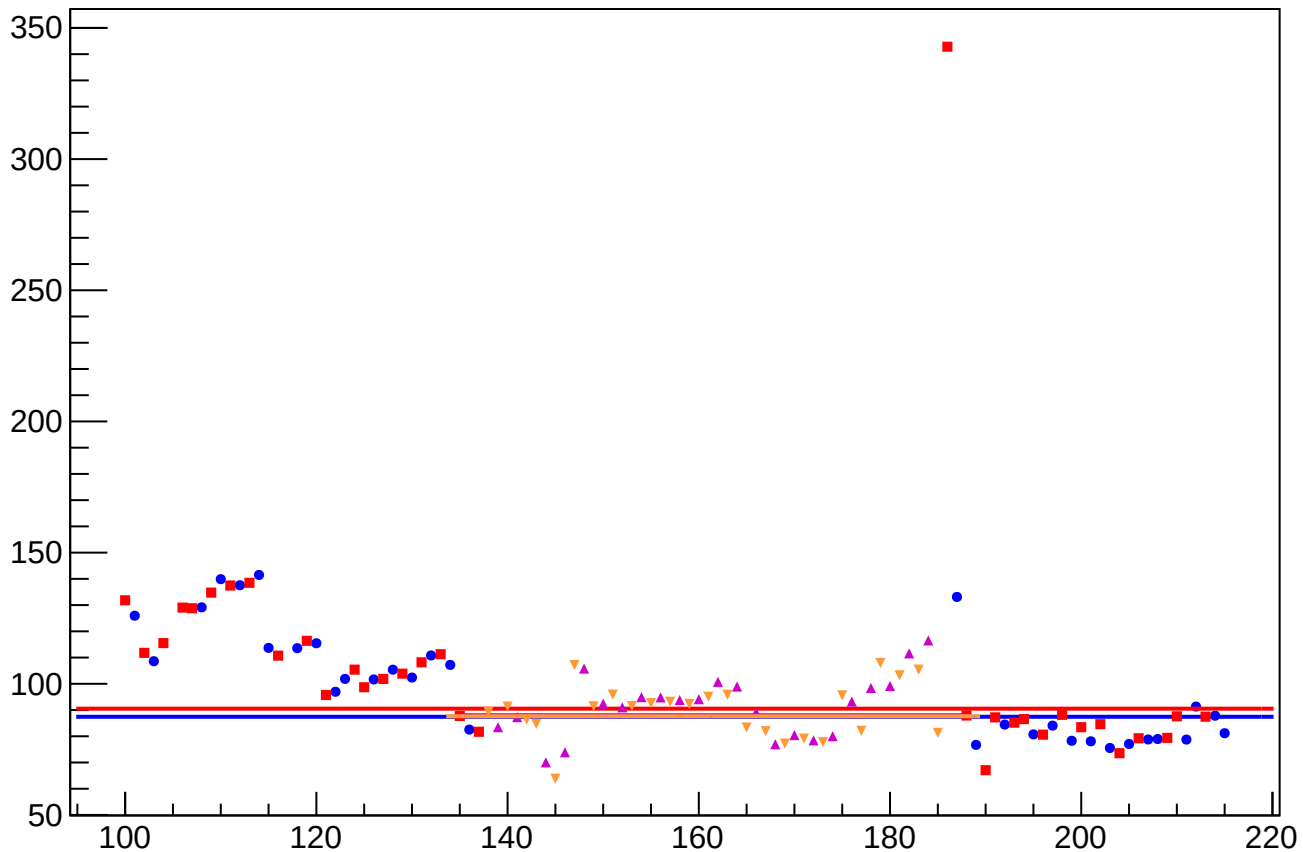
Right: 36.546 ± 15.410 χ^2/NDF : 81.7/65

In: 24.604 ± 15.068 χ^2/NDF : 51.9/54

Out: -12.204 ± 15.114 χ^2/NDF : 99.5/58

All: 6.257 ± 10.671 χ^2/NDF : 154.4/113

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 87.431 $\pm$ 0.015 χ^2 /NDF: 960323.0/31

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 90.523 $\pm$ 0.016 χ^2 /NDF: 1365022.3/33

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

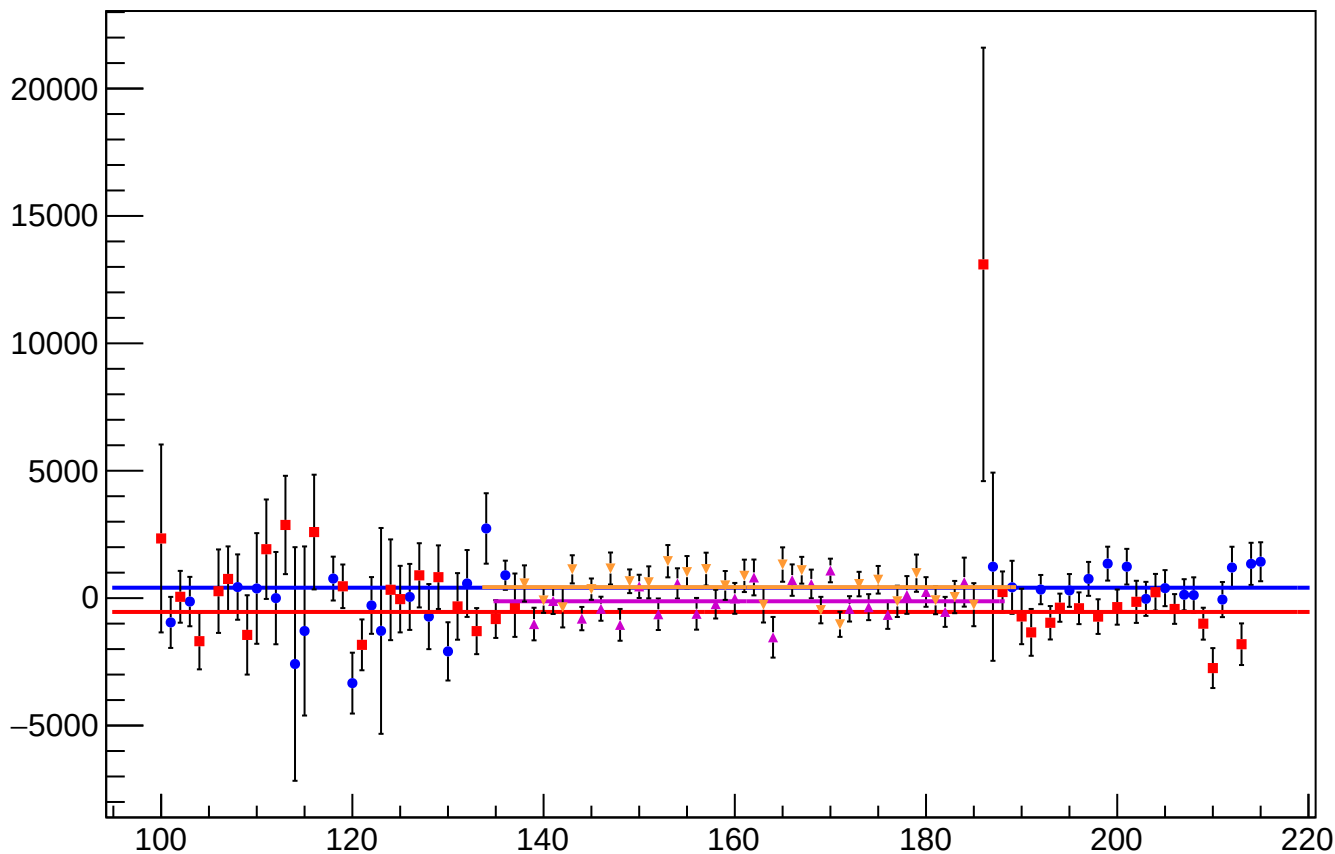
Right: 88.912 $\pm$ 0.011 χ^2 /NDF: 2345441.0/65

In: 87.733 $\pm$ 0.011 χ^2 /NDF: 1484829.8/54

Out: 88.960 $\pm$ 0.011 χ^2 /NDF: 1937977.7/58

All: 88.345 $\pm$ 0.008 χ^2 /NDF: 3429424.9/113

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 409.190+/-155.917 χ^2/NDF : 31.7/31

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -542.101+/-156.613 χ^2/NDF : 34.4/33

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

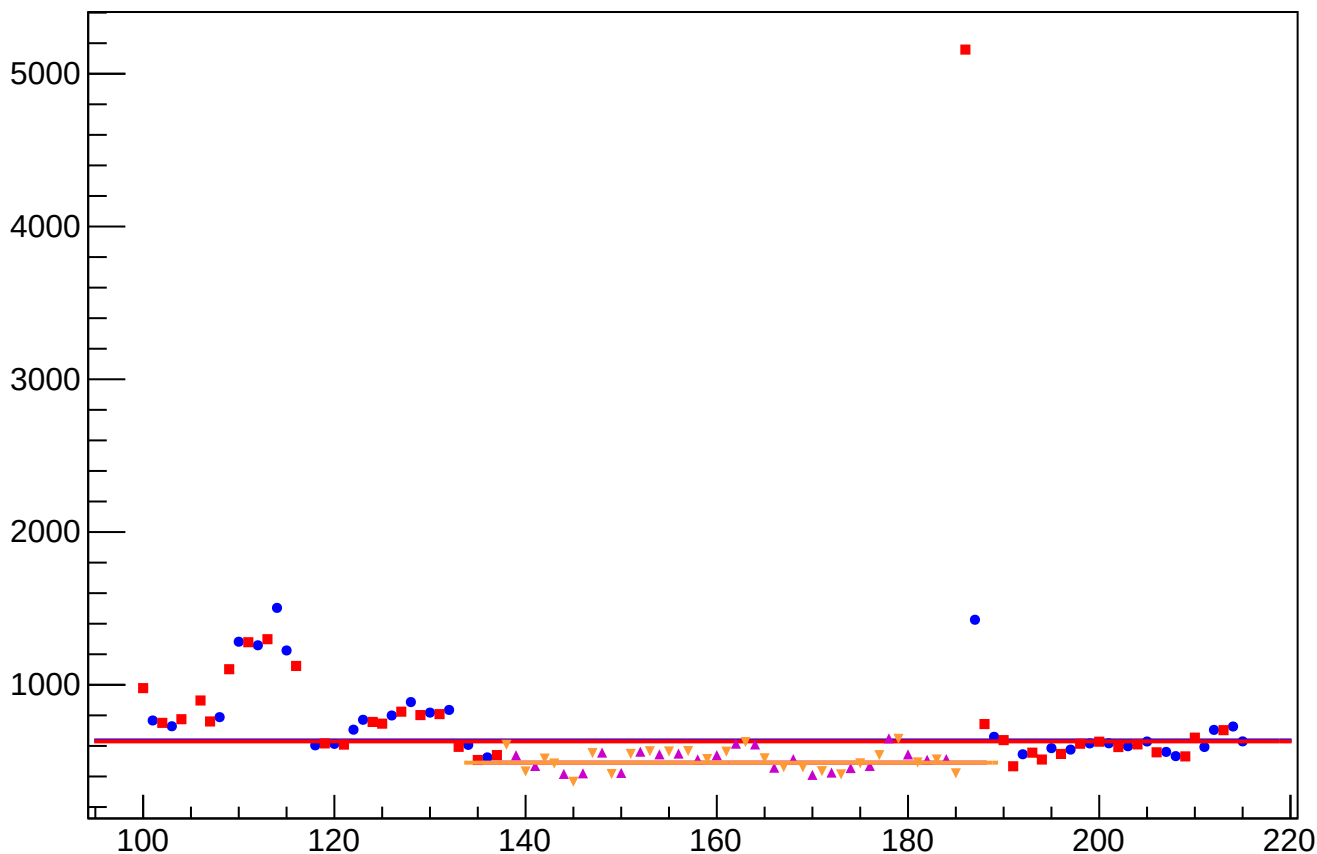
Right: -64.336+/-110.495 χ^2/NDF : 84.7/65

In: 72.572+/-94.520 χ^2/NDF :68.4/54

Out: 87.827+/-93.062 χ^2/NDF :89.9/58

All: 80.318+/-66.314 χ^2/NDF : 158.2/113

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 635.801 ± 0.110 χ^2/NDF : 1225464.2/31

Left Out: 490.267 ± 0.082 χ^2/NDF : 750277.0/24

Right Out: 629.630 ± 0.111 χ^2/NDF : 2038638.5/33

Left In: 490.910 ± 0.084 χ^2/NDF : 589235.5/22

Left: 490.580 ± 0.059 χ^2/NDF : 1339542.5/47

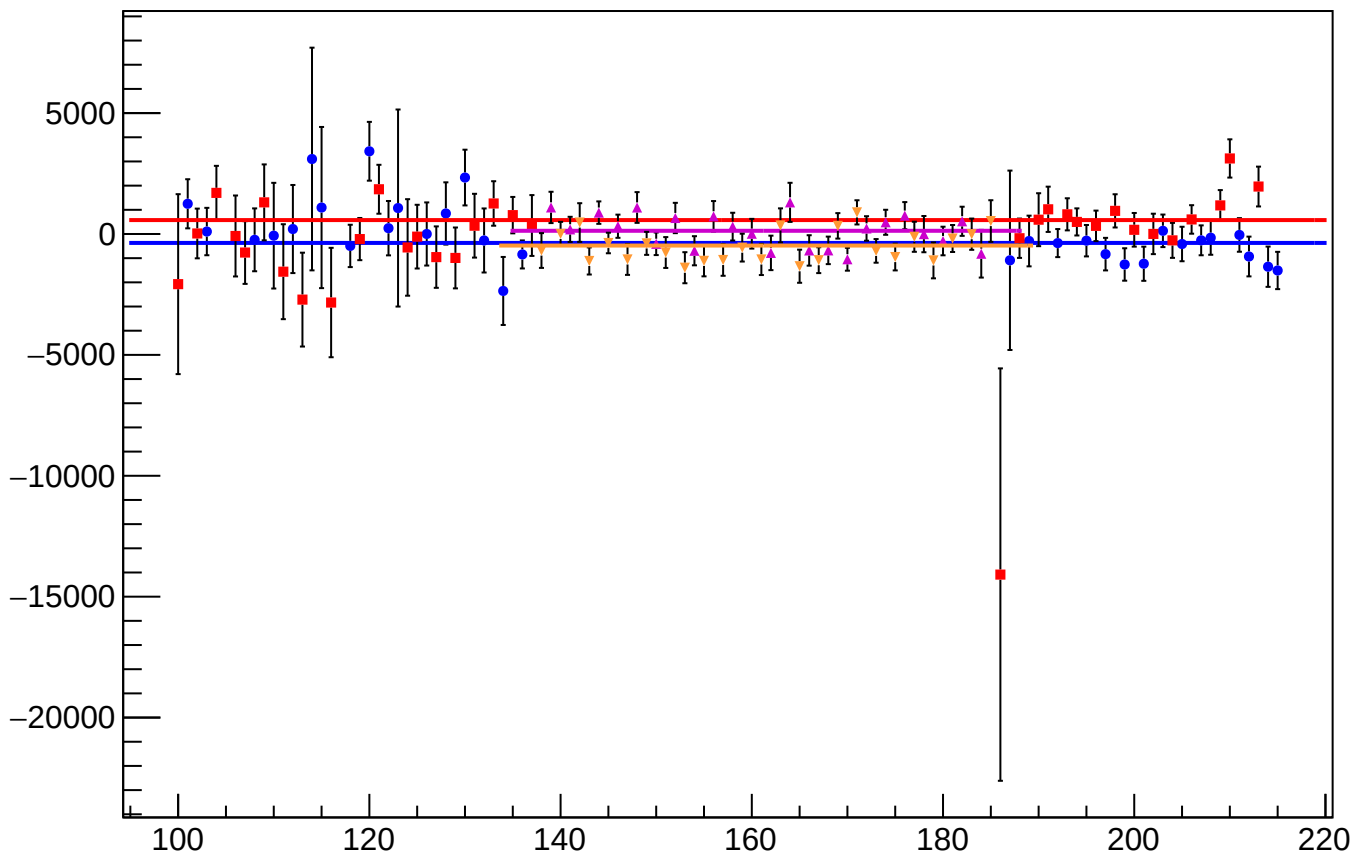
Right: 632.729 ± 0.078 χ^2/NDF : 3265662.2/65

In: 544.158 ± 0.067 χ^2/NDF : 2907107.3/54

Out: 539.475 ± 0.066 χ^2/NDF : 3813403.4/58

All: 541.780 ± 0.047 χ^2/NDF : 6723003.1/113

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -369.427 $\pm$ 157.528 χ^2 /NDF: 31.7/31

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 575.274 $\pm$ 158.404 χ^2 /NDF: 37.2/33

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

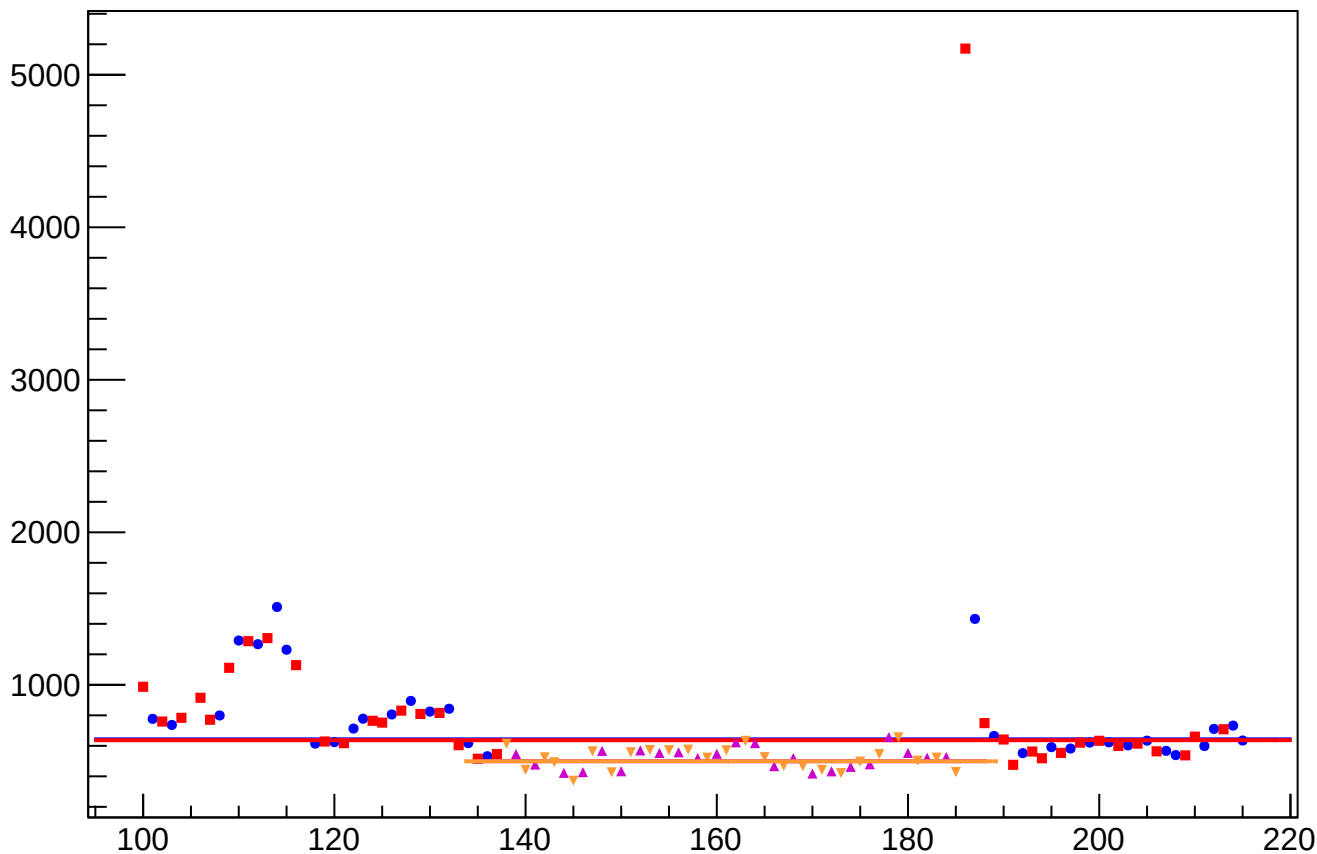
Right: 100.304 $\pm$ 111.698 χ^2 /NDF: 86.8/65

In: -53.464 $\pm$ 95.892 χ^2 /NDF:67.7/54

Out: -103.632 $\pm$ 94.454 χ^2 /NDF:93.5/58

All: -78.927 $\pm$ 67.292 χ^2 /NDF: 161.3/113

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 642.536+/-0.111 χ^2/NDF : 1213380.6/31

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 637.075+/-0.112 χ^2/NDF : 2017452.6/33

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

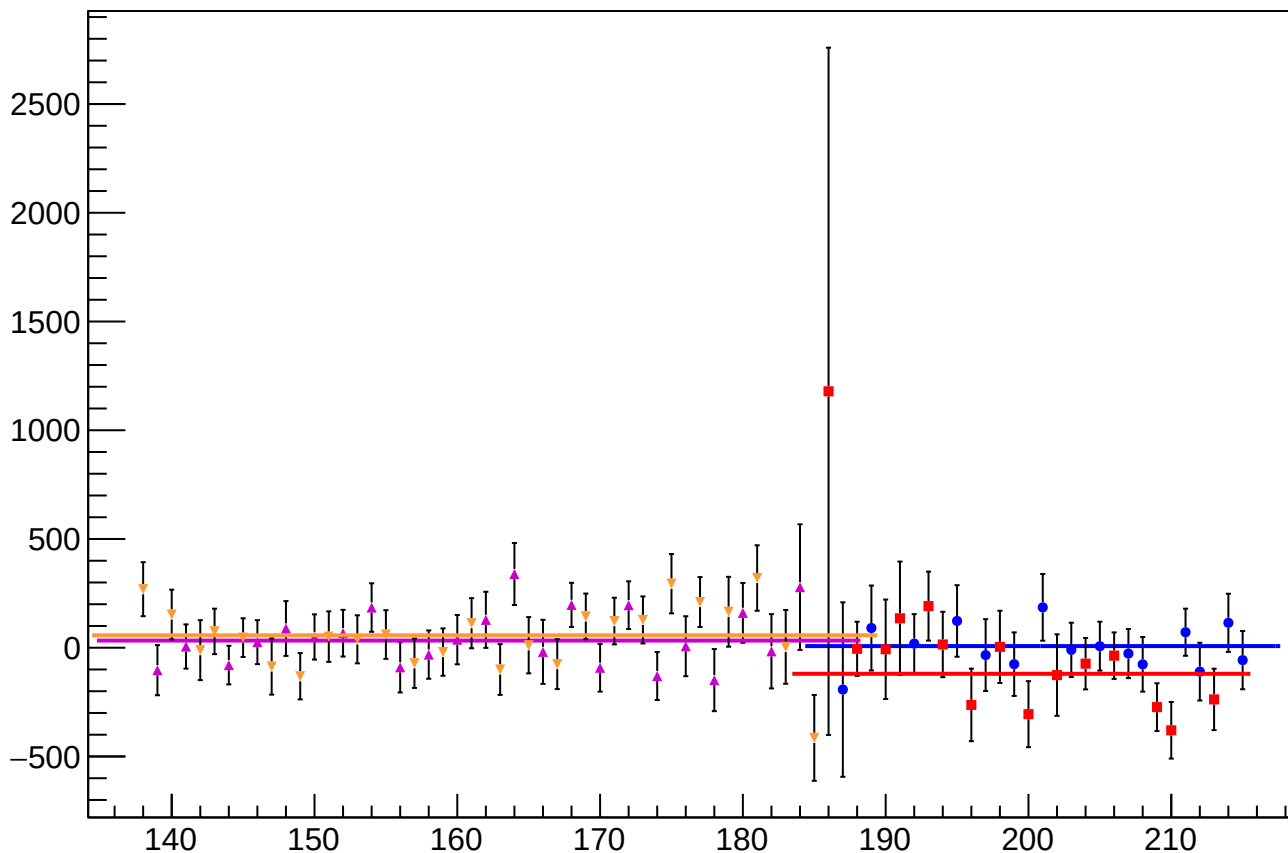
Right: 639.820+/-0.079 χ^2/NDF : 3232028.4/65

In: 552.435+/-0.068 χ^2/NDF : 2829391.6/54

Out: 547.935+/-0.067 χ^2/NDF : 3734535.0/58

All: 550.151+/-0.048 χ^2/NDF : 6566162.8/113

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 7.525 ± 35.615 $\chi^2/\text{NDF}: 5.2/14$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -119.913 ± 38.406 $\chi^2/\text{NDF}: 17.6/14$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

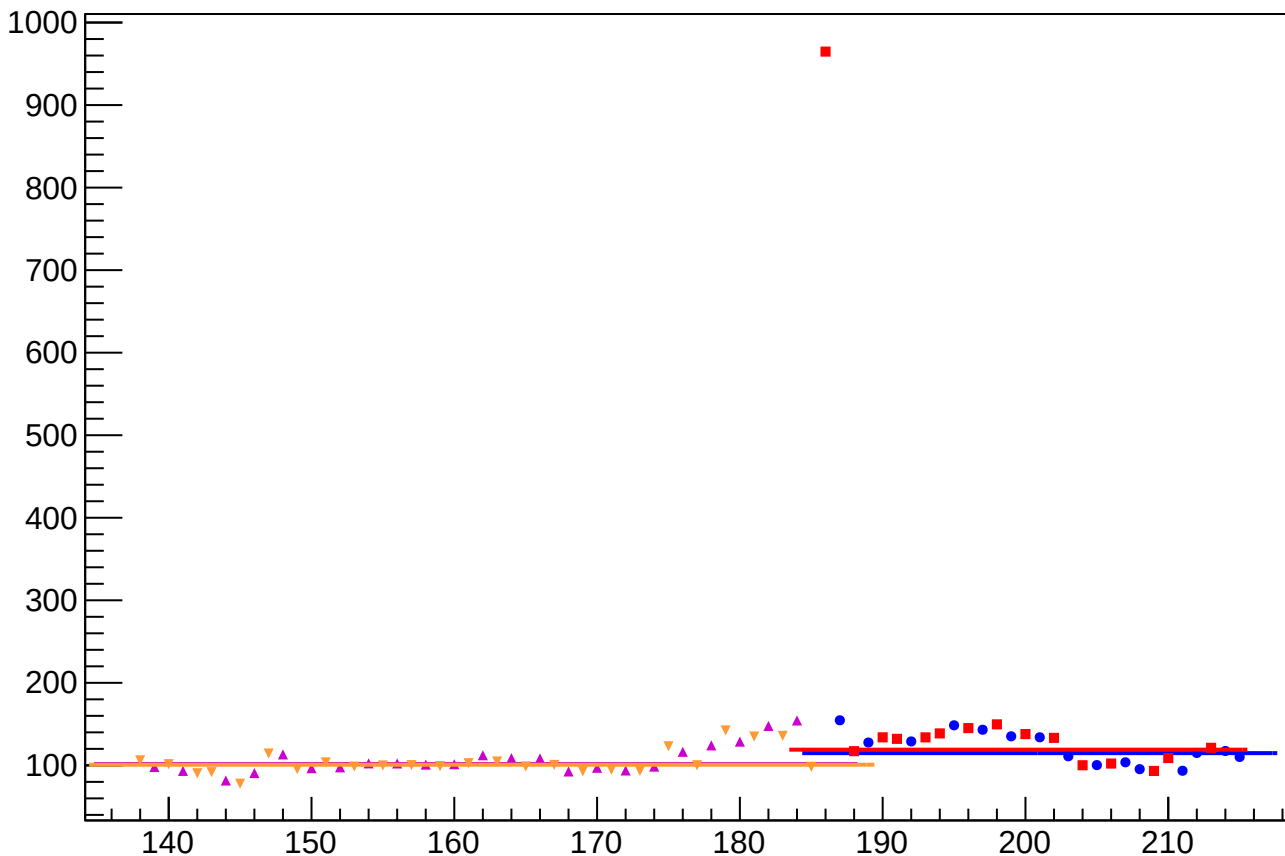
Right: -51.396 ± 26.115 $\chi^2/\text{NDF}: 28.7/29$

In: 24.742 ± 20.234 $\chi^2/\text{NDF}: 29.2/37$

Out: 8.322 ± 20.177 $\chi^2/\text{NDF}: 62.2/39$

All: 16.509 ± 14.287 $\chi^2/\text{NDF}: 91.7/77$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 114.828 $\pm$ 0.025 χ^2 /NDF: 446386.6/14

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 119.020 $\pm$ 0.027 χ^2 /NDF: 1022239.2/14

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

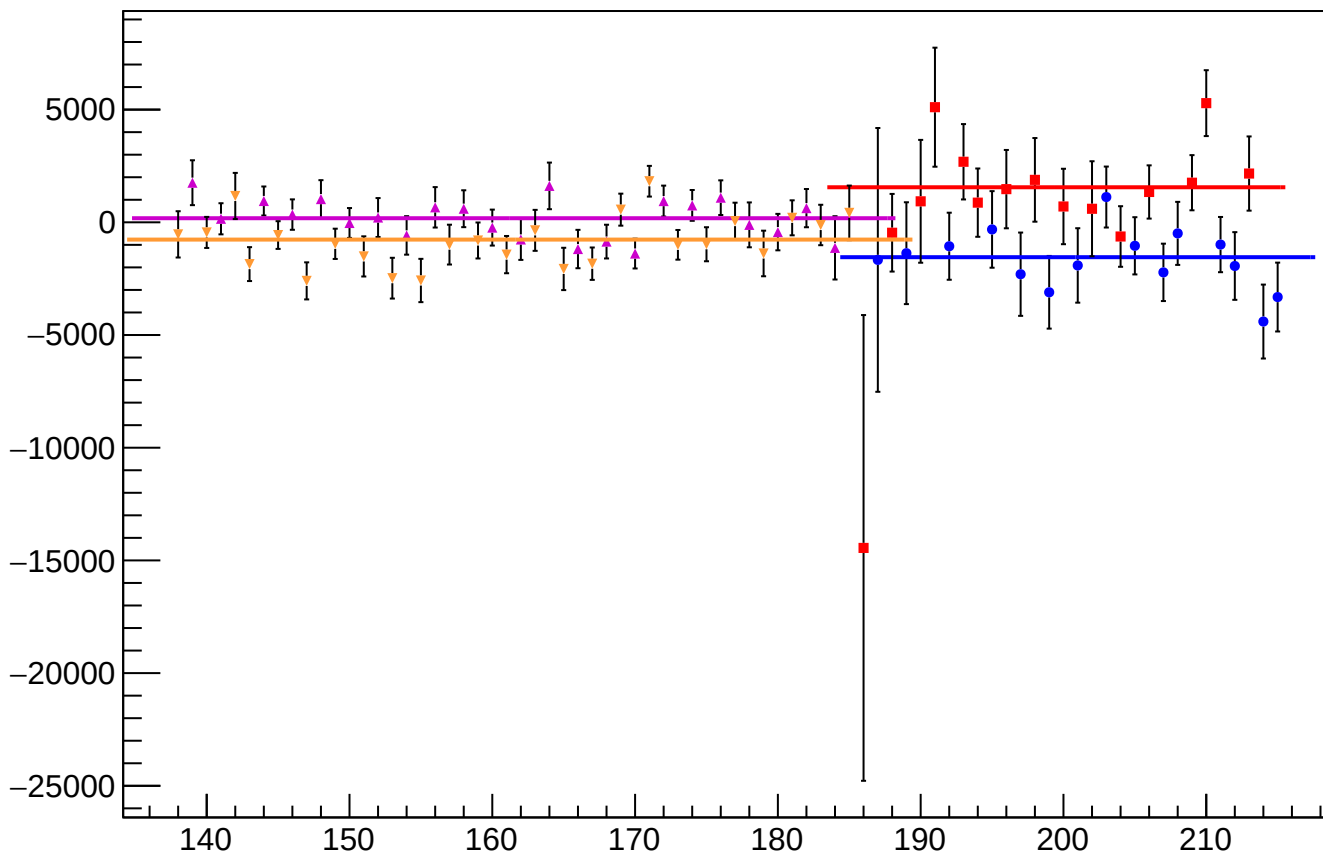
Right: 116.766 $\pm$ 0.018 χ^2 /NDF: 1481441.2/29

In: 105.884 $\pm$ 0.014 χ^2 /NDF: 1214939.6/37

Out: 105.829 $\pm$ 0.014 χ^2 /NDF: 1948621.3/39

All: 105.857 $\pm$ 0.010 χ^2 /NDF: 3163568.2/77

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1547.219 ± 399.244 $\chi^2/\text{NDF}: 11.3/14$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1554.933 ± 430.462 $\chi^2/\text{NDF}: 16.2/14$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

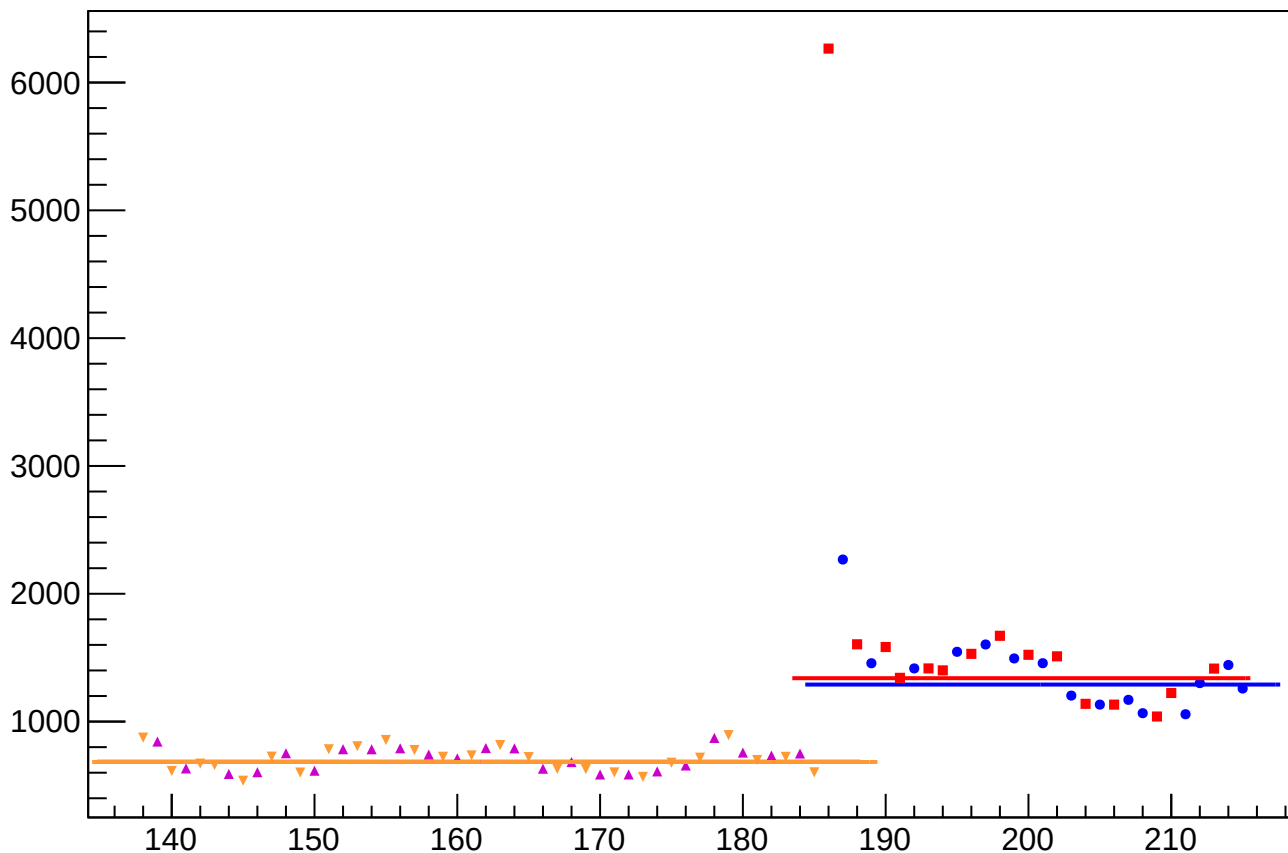
Right: -112.697 ± 292.723 $\chi^2/\text{NDF}: 55.4/29$

In: -72.374 ± 153.019 $\chi^2/\text{NDF}: 52.3/37$

Out: -481.280 ± 150.852 $\chi^2/\text{NDF}: 88.2/39$

All: -279.743 ± 107.427 $\chi^2/\text{NDF}: 144.2/77$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1289.667 $\pm$ 0.282 χ^2 /NDF: 434726.2/14

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1339.475 $\pm$ 0.304 χ^2 /NDF: 893203.0/14

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

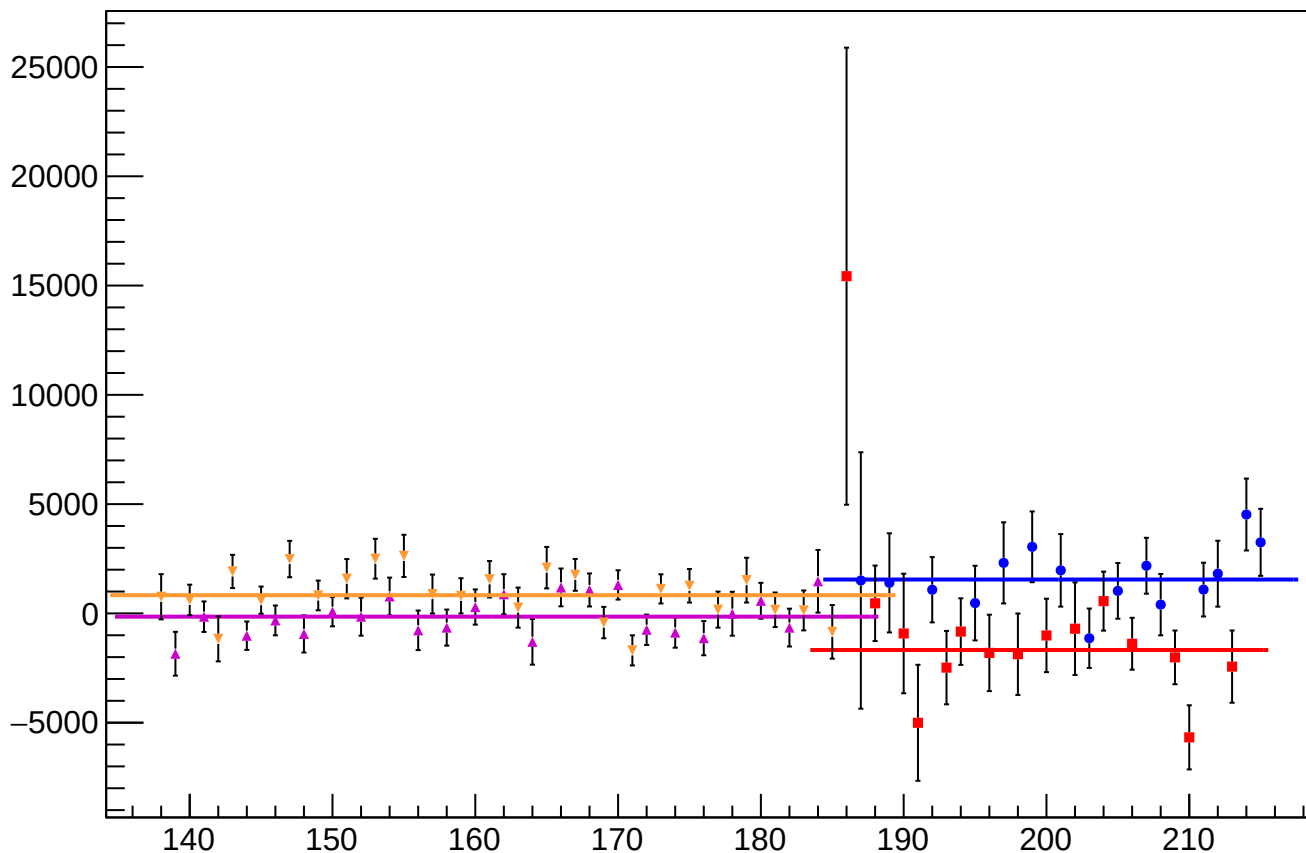
Right: 1312.700 $\pm$ 0.207 χ^2 /NDF: 1342323.4/29

In: 774.330 $\pm$ 0.108 χ^2 /NDF: 4870110.2/37

Out: 764.397 $\pm$ 0.107 χ^2 /NDF: 5629663.8/39

All: 769.293 $\pm$ 0.076 χ^2 /NDF: 10504047.6/77

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1549.691 $\pm$ 400.887 χ^2 /NDF: 11.2/14

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF: 43.2/24

Right Out: -1673.621 $\pm$ 432.277 χ^2 /NDF: 17.3/14

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

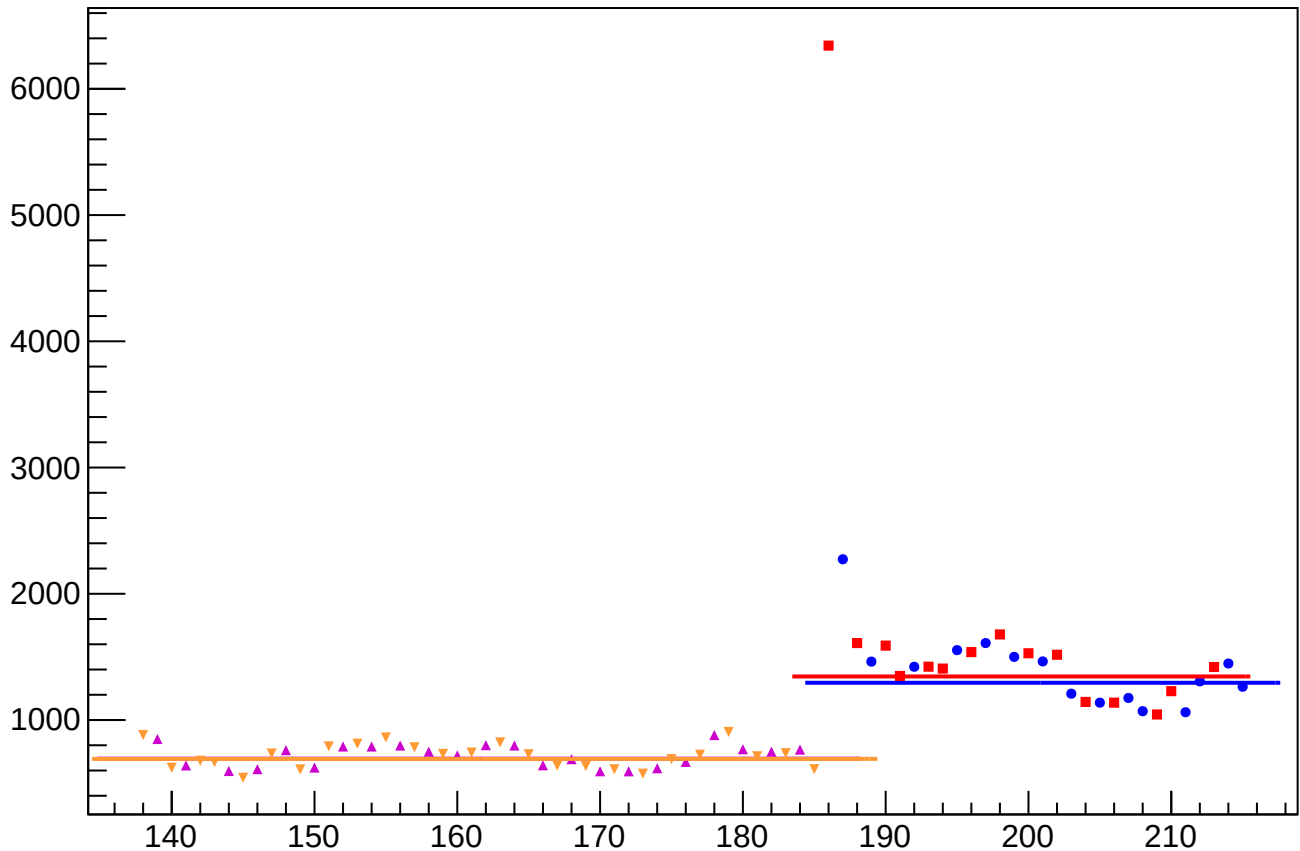
Right: 59.301 $\pm$ 293.941 χ^2 /NDF: 58.4/29

In: 104.003 $\pm$ 154.665 χ^2 /NDF: 52.6/37

Out: 521.427 $\pm$ 152.489 χ^2 /NDF: 90.0/39

All: 315.673 $\pm$ 108.587 χ^2 /NDF: 146.2/77

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1294.974+/-0.283 χ^2/NDF : 435197.8/14

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1345.081+/-0.306 χ^2/NDF : 895630.8/14

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

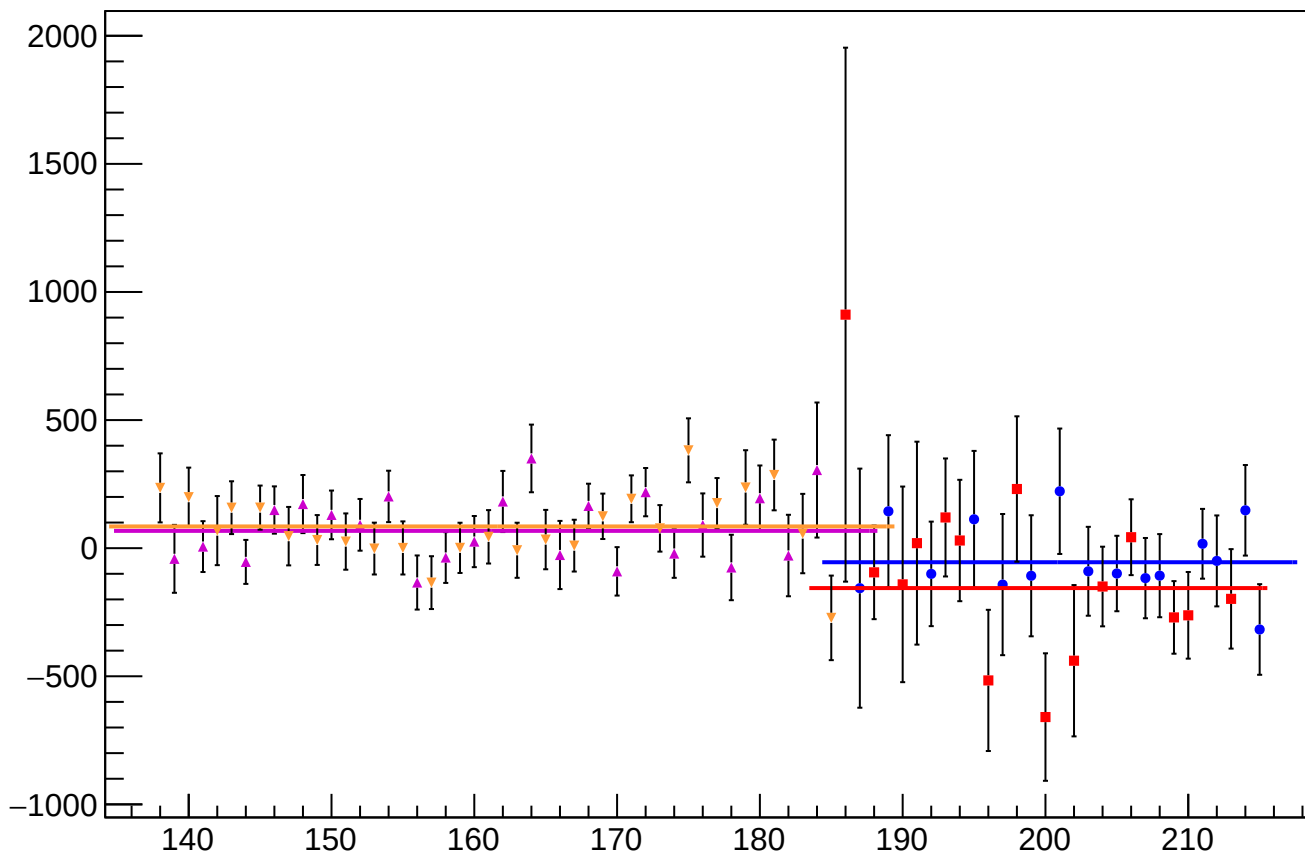
Right: 1318.142+/-0.208 χ^2/NDF : 1345275.5/29

In: 783.340+/-0.109 χ^2/NDF : 4784587.7/37

Out: 773.353+/-0.108 χ^2/NDF : 5548640.6/39

All: 778.276+/-0.077 χ^2/NDF : 10337457.3/77

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -54.873 ± 49.418 χ^2/NDF : 6.6/14

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -155.758 ± 54.856 χ^2/NDF : 14.9/14

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

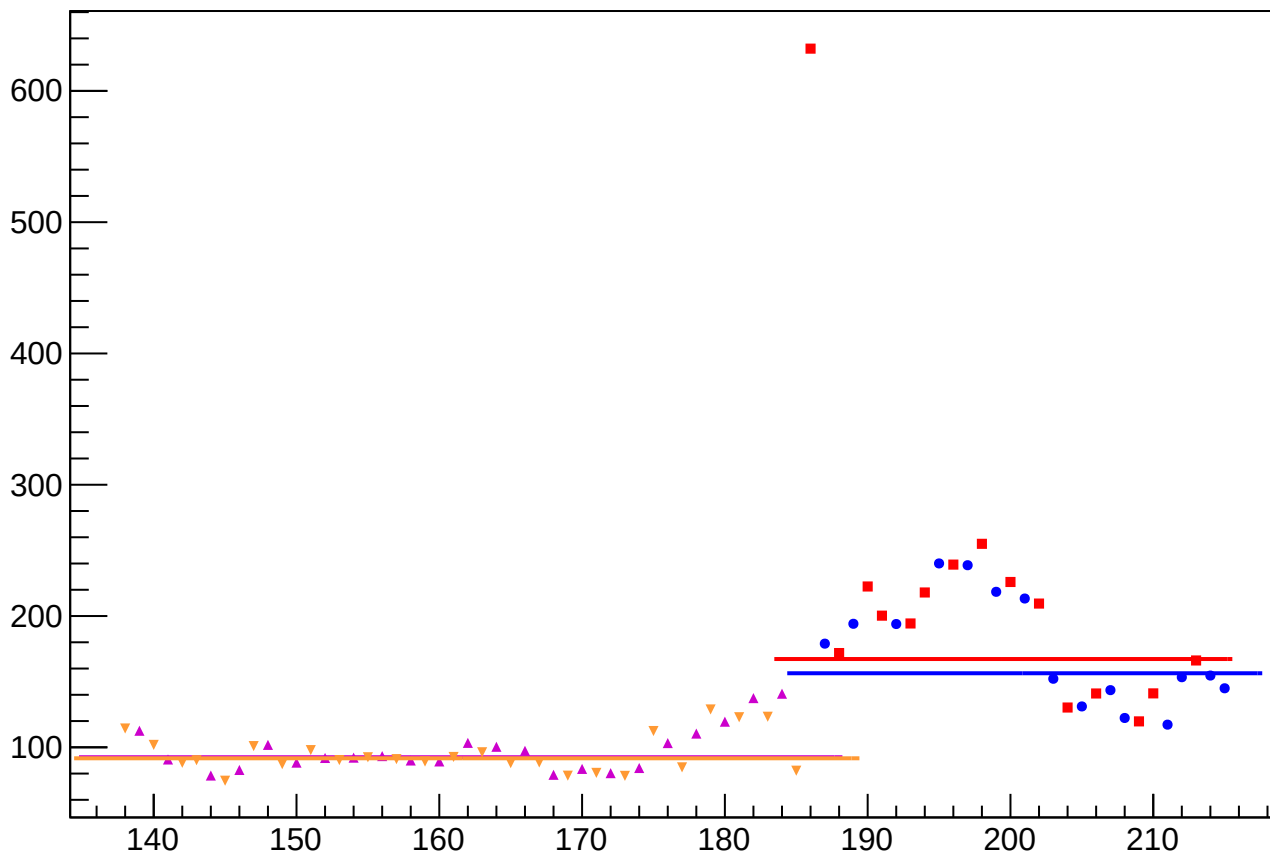
Right: -100.069 ± 36.716 χ^2/NDF : 23.3/29

In: 46.610 ± 20.439 χ^2/NDF : 40.5/37

Out: 52.449 ± 20.133 χ^2/NDF : 60.0/39

All: 49.574 ± 14.343 χ^2/NDF : 100.6/77

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 156.412 $\pm$ 0.035 χ^2 /NDF: 1061510.7/14

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 167.249 $\pm$ 0.039 χ^2 /NDF: 1502756.0/14

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

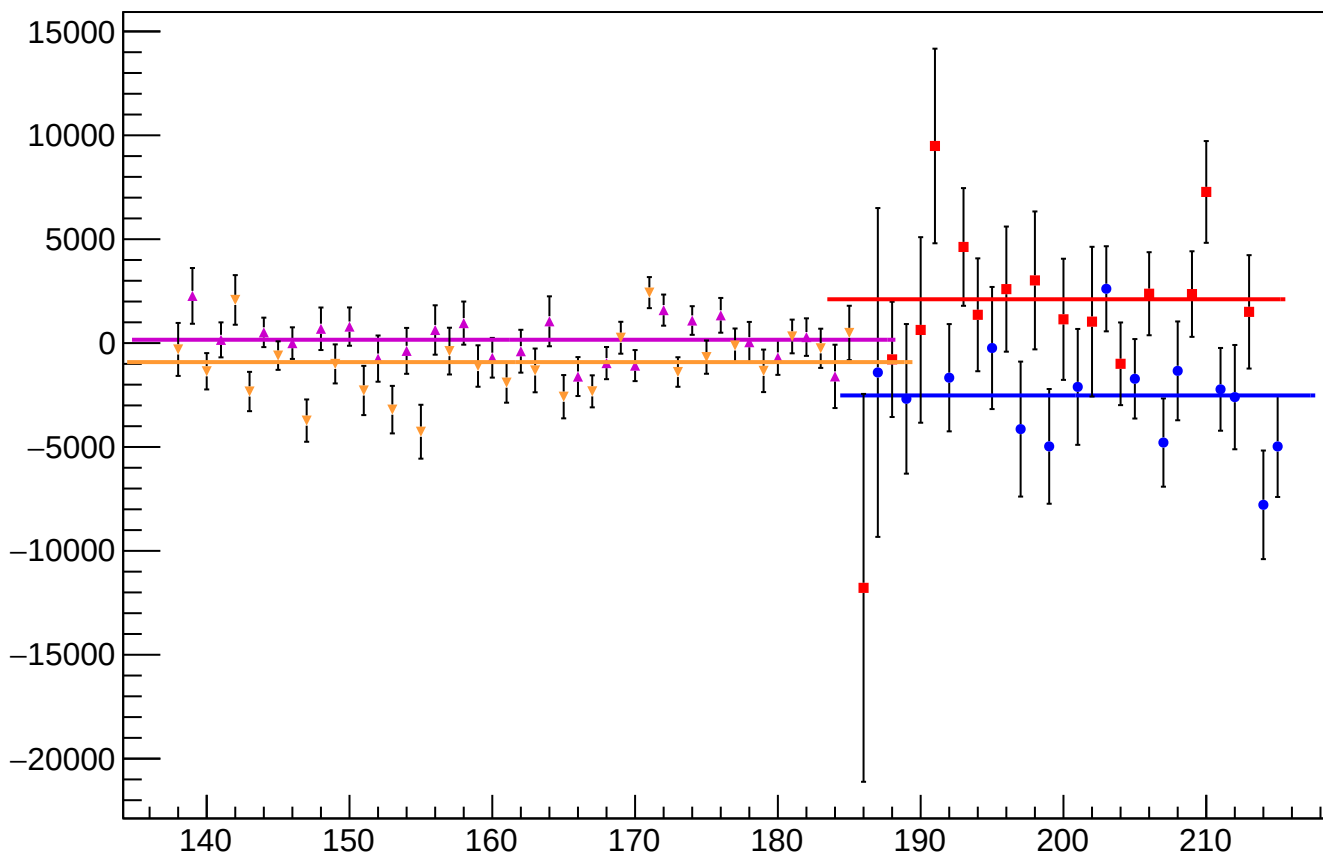
Right: 161.267 $\pm$ 0.026 χ^2 /NDF: 2607352.7/29

In: 103.405 $\pm$ 0.014 χ^2 /NDF: 4493146.9/37

Out: 101.818 $\pm$ 0.014 χ^2 /NDF: 5484310.2/39

All: 102.599 $\pm$ 0.010 χ^2 /NDF: 9983574.4/77

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2519.128 $\pm$ 652.373 χ^2/NDF : 14.7/14

Left Out: -914.719 $\pm$ 185.341 χ^2/NDF : 64.2/24

Right Out: 2109.498 $\pm$ 719.285 χ^2/NDF : 14.0/14

Left In: 161.076 $\pm$ 189.491 χ^2/NDF : 25.1/22

Left: -388.730 $\pm$ 132.499 χ^2/NDF : 105.7/47

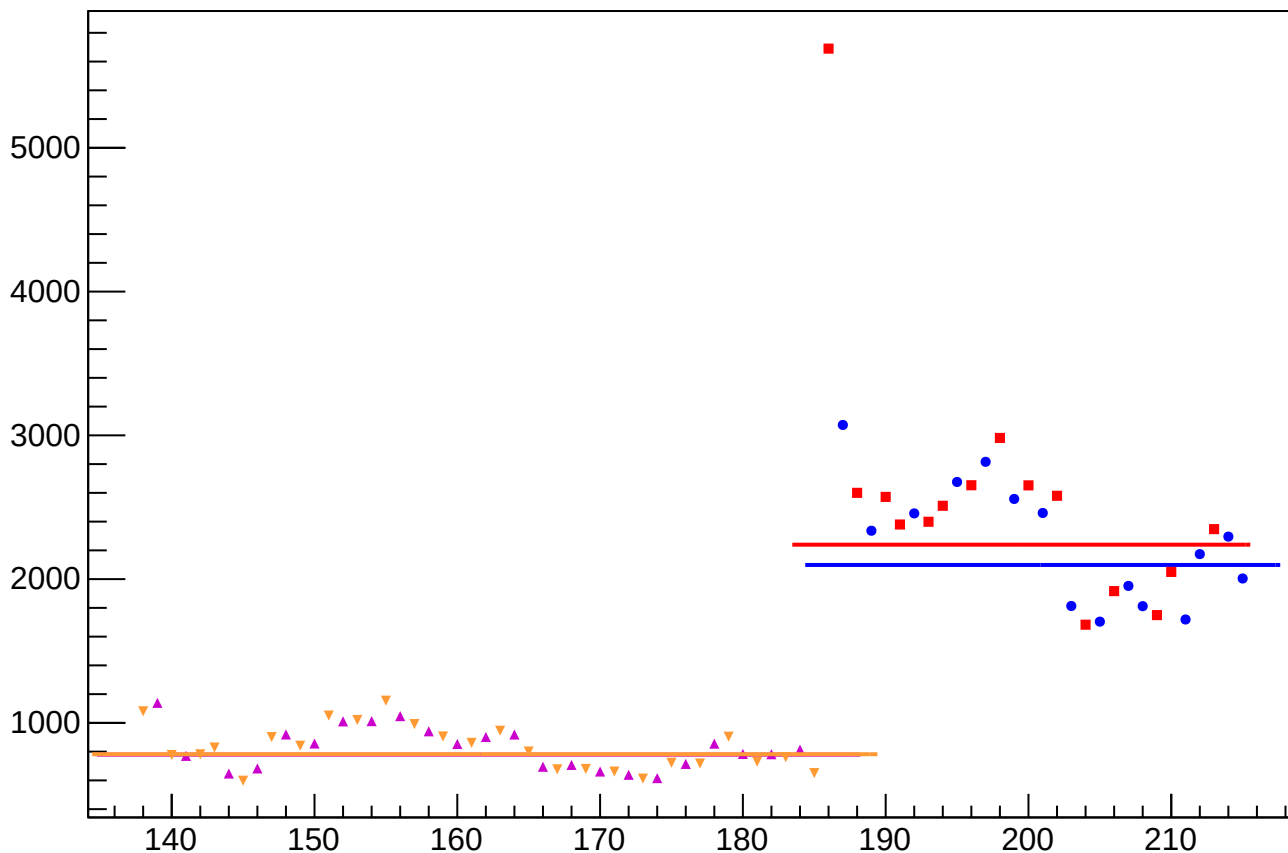
Right: -430.070 $\pm$ 483.226 χ^2/NDF : 51.5/29

In: -47.456 $\pm$ 181.970 χ^2/NDF : 55.4/37

Out: -726.426 $\pm$ 179.478 χ^2/NDF : 94.8/39

All: -391.621 $\pm$ 127.782 χ^2/NDF : 157.2/77

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2098.487 $\pm$ 0.461 χ^2 /NDF: 592297.2/14

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2239.506 $\pm$ 0.509 χ^2 /NDF: 878705.3/14

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

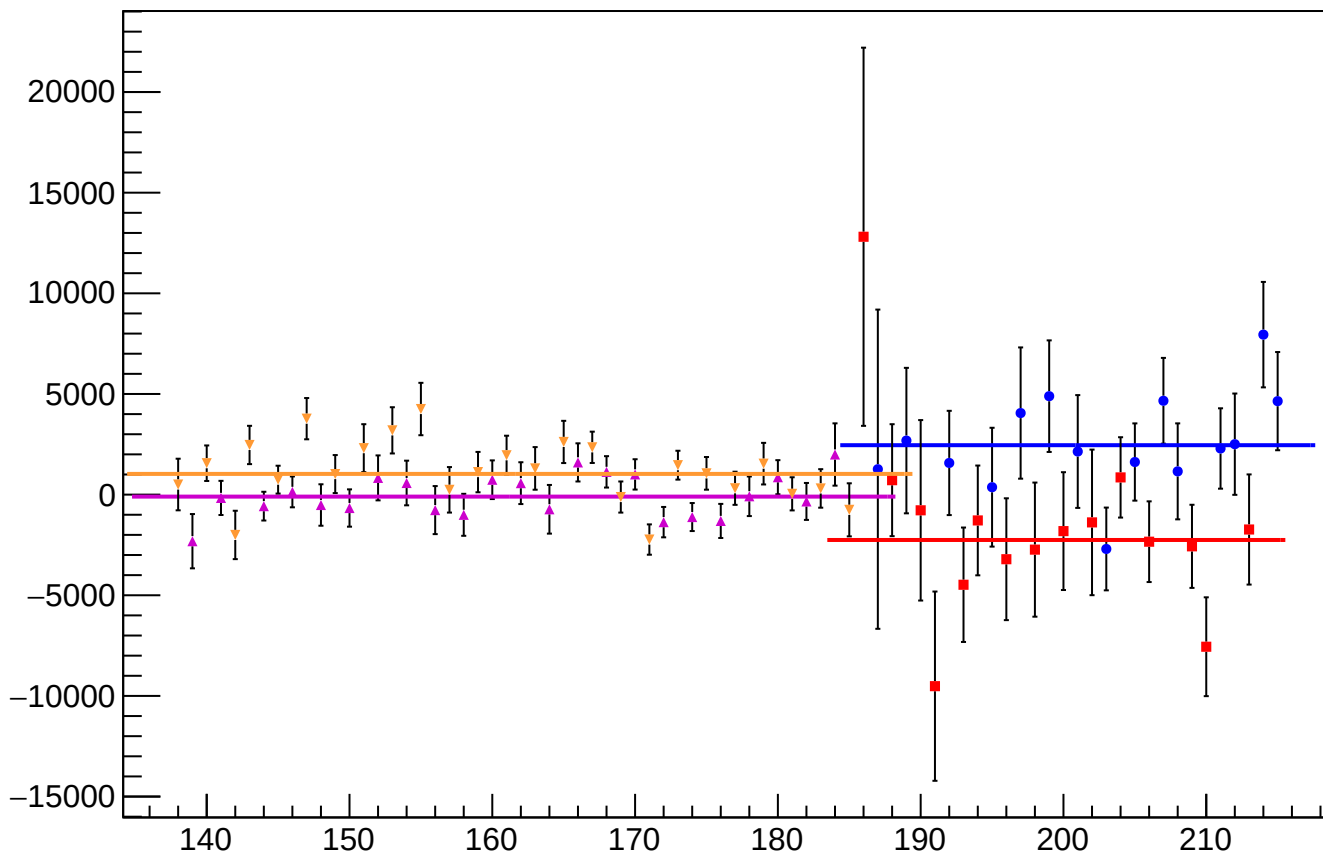
Right: 2162.134 $\pm$ 0.342 χ^2 /NDF: 1513180.5/29

In: 881.657 $\pm$ 0.129 χ^2 /NDF: 9117806.3/37

Out: 872.786 $\pm$ 0.127 χ^2 /NDF: 9709949.5/39

All: 877.161 $\pm$ 0.090 χ^2 /NDF: 18830165.2/77

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2455.715 $\pm$ 654.416 χ^2 /NDF: 14.7/14

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2253.088 $\pm$ 721.600 χ^2 /NDF: 14.3/14

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

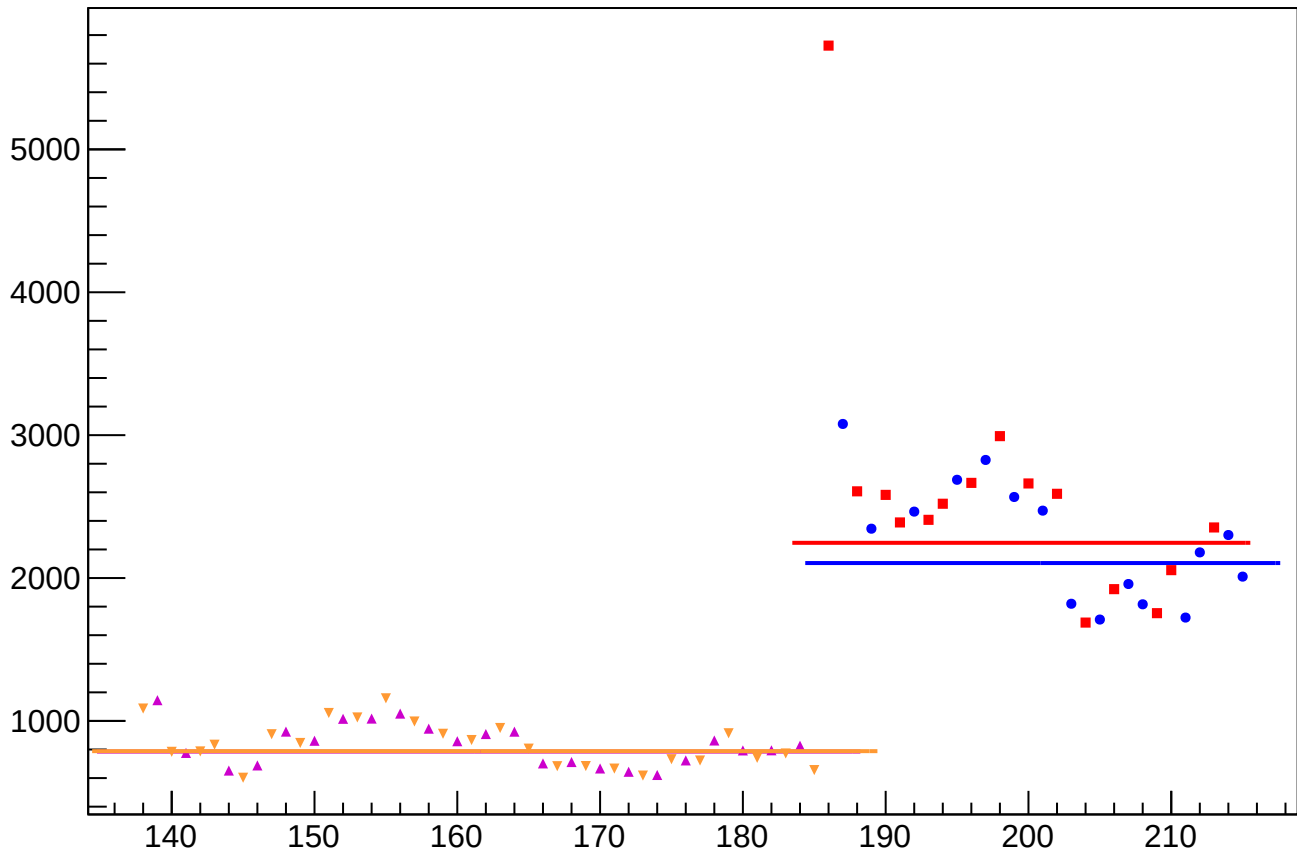
Right: 330.674 $\pm$ 484.758 χ^2 /NDF: 52.4/29

In: 101.875 $\pm$ 183.374 χ^2 /NDF:54.1/37

Out: 822.722 $\pm$ 180.848 χ^2 /NDF:93.8/39

All: 467.297 $\pm$ 128.763 χ^2 /NDF: 155.8/77

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2104.935+/-0.463 χ^2/NDF : 594712.3/14

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2246.507+/-0.510 χ^2/NDF : 882515.2/14

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

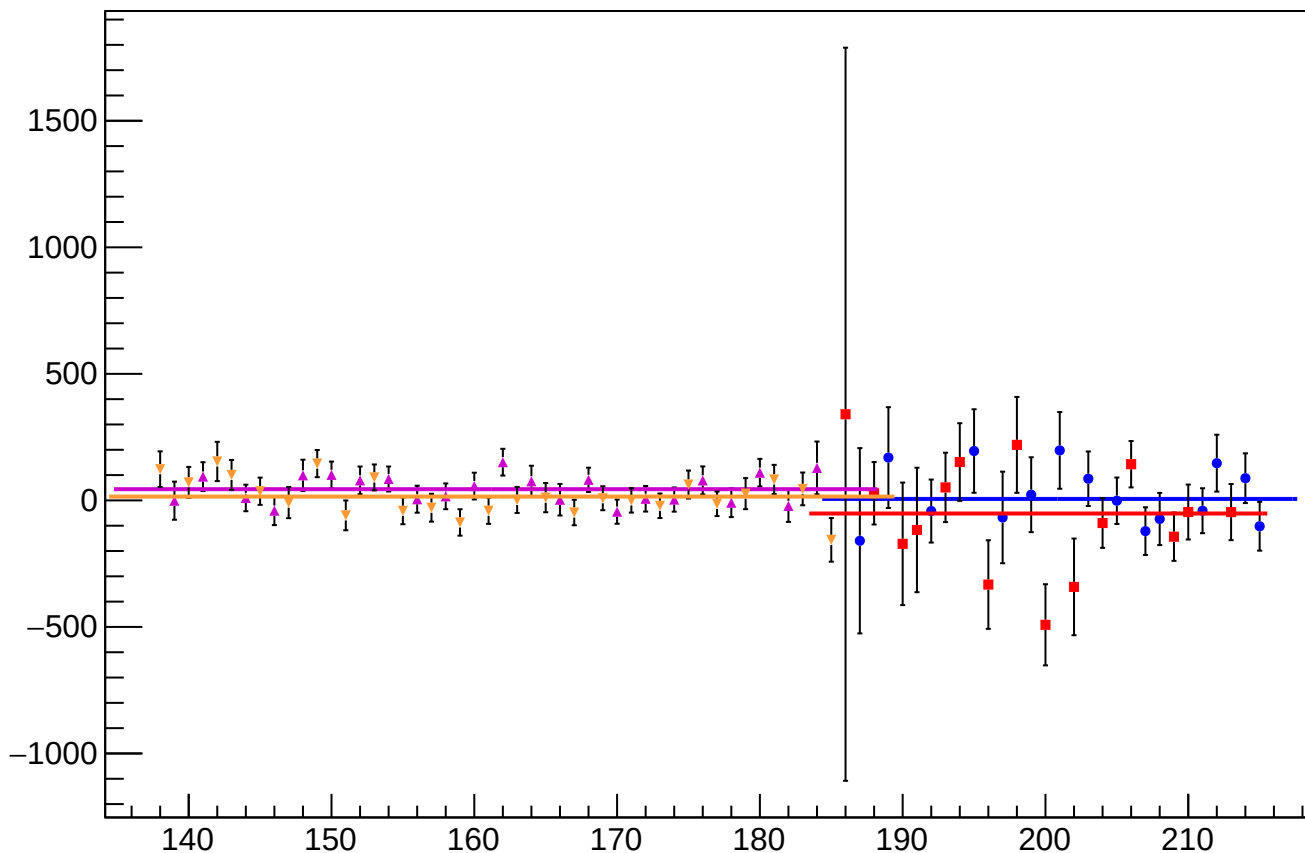
Right: 2168.825+/-0.343 χ^2/NDF : 1519468.6/29

In: 889.090+/-0.130 χ^2/NDF : 9051936.6/37

Out: 880.024+/-0.128 χ^2/NDF : 9649008.5/39

All: 884.494+/-0.091 χ^2/NDF : 18703423.3/77

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 5.813 ± 30.395 $\chi^2/\text{NDF}: 10.9/14$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -51.822 ± 34.897 $\chi^2/\text{NDF}: 23.2/14$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

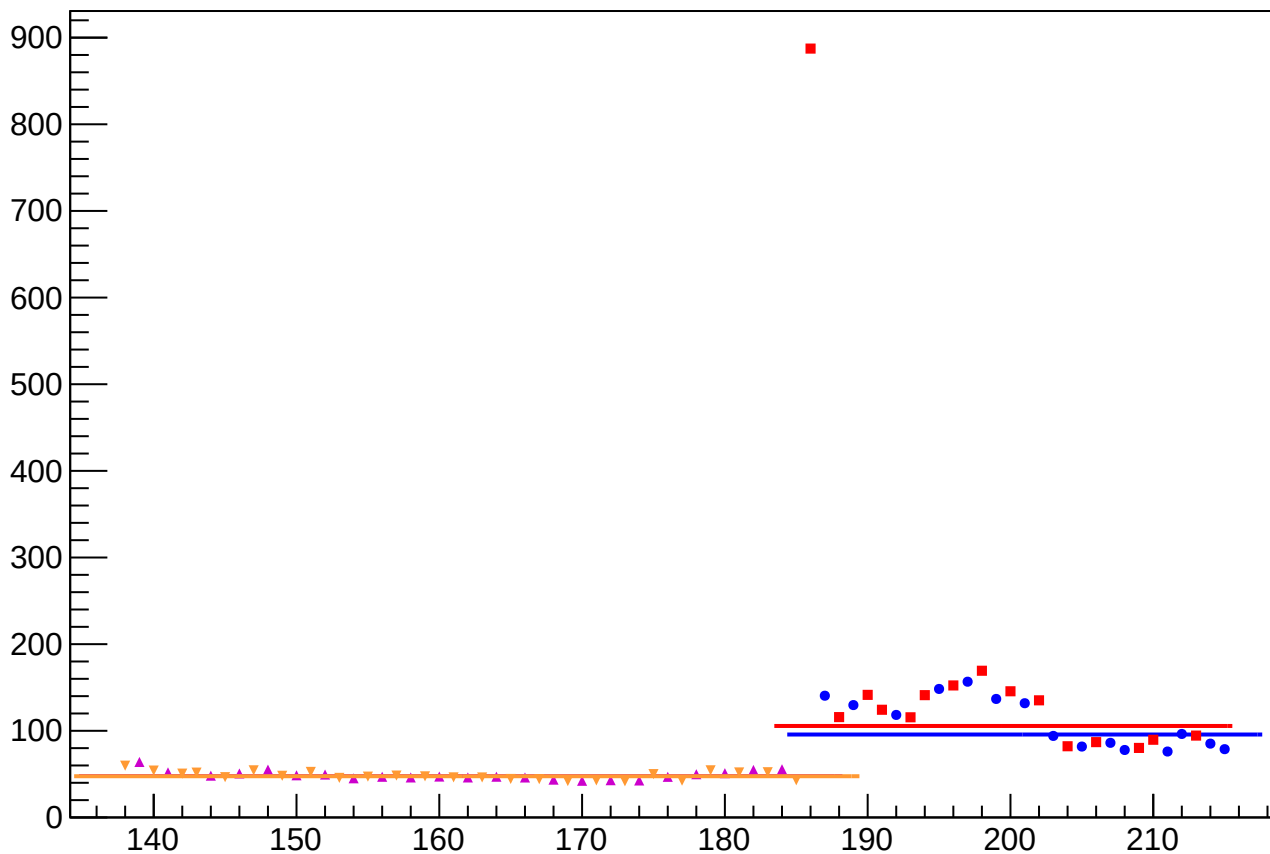
Right: -19.049 ± 22.920 $\chi^2/\text{NDF}: 35.6/29$

In: 39.456 ± 10.780 $\chi^2/\text{NDF}: 34.6/37$

Out: 8.896 ± 10.625 $\chi^2/\text{NDF}: 60.7/39$

All: 23.954 ± 7.567 $\chi^2/\text{NDF}: 99.4/77$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 95.719 $\pm$ 0.021 χ^2 /NDF: 1161000.7/14

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 105.584 $\pm$ 0.025 χ^2 /NDF: 1712295.2/14

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

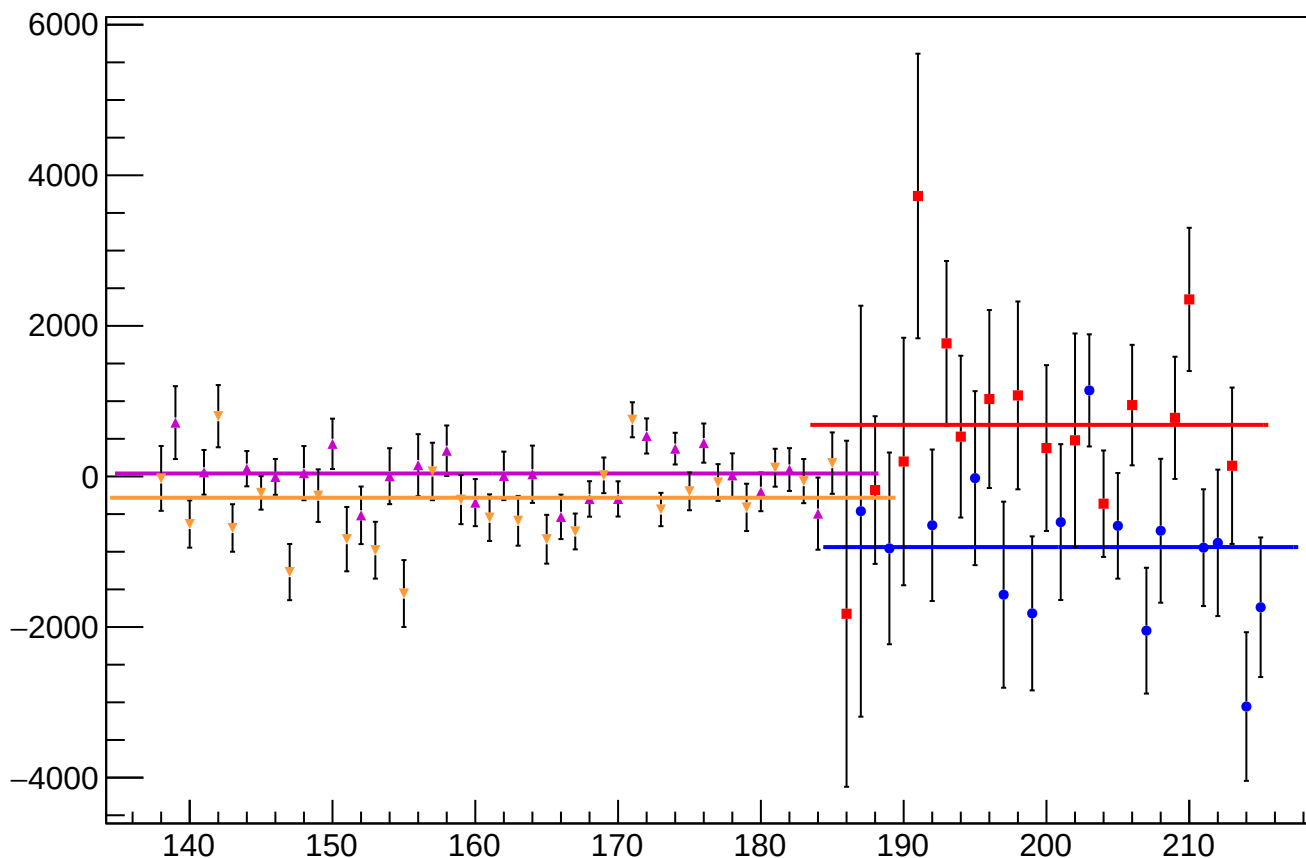
Right: 99.975 $\pm$ 0.016 χ^2 /NDF: 2964180.3/29

In: 53.868 $\pm$ 0.008 χ^2 /NDF:5780214.5/37

Out: 52.963 $\pm$ 0.008 χ^2 /NDF:7037551.0/39

All: 53.409 $\pm$ 0.005 χ^2 /NDF: 12824924.9/77

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -938.164 $\pm$ 247.663 χ^2 /NDF: 17.0/14

Left Out: -282.798 $\pm$ 59.690 χ^2 /NDF:66.5/24

Right Out: 685.269 $\pm$ 273.447 χ^2 /NDF: 11.6/14

Left In: 39.432 $\pm$ 60.759 χ^2 /NDF:27.5/22

Left: -124.543 $\pm$ 42.580 χ^2 /NDF: 108.4/47

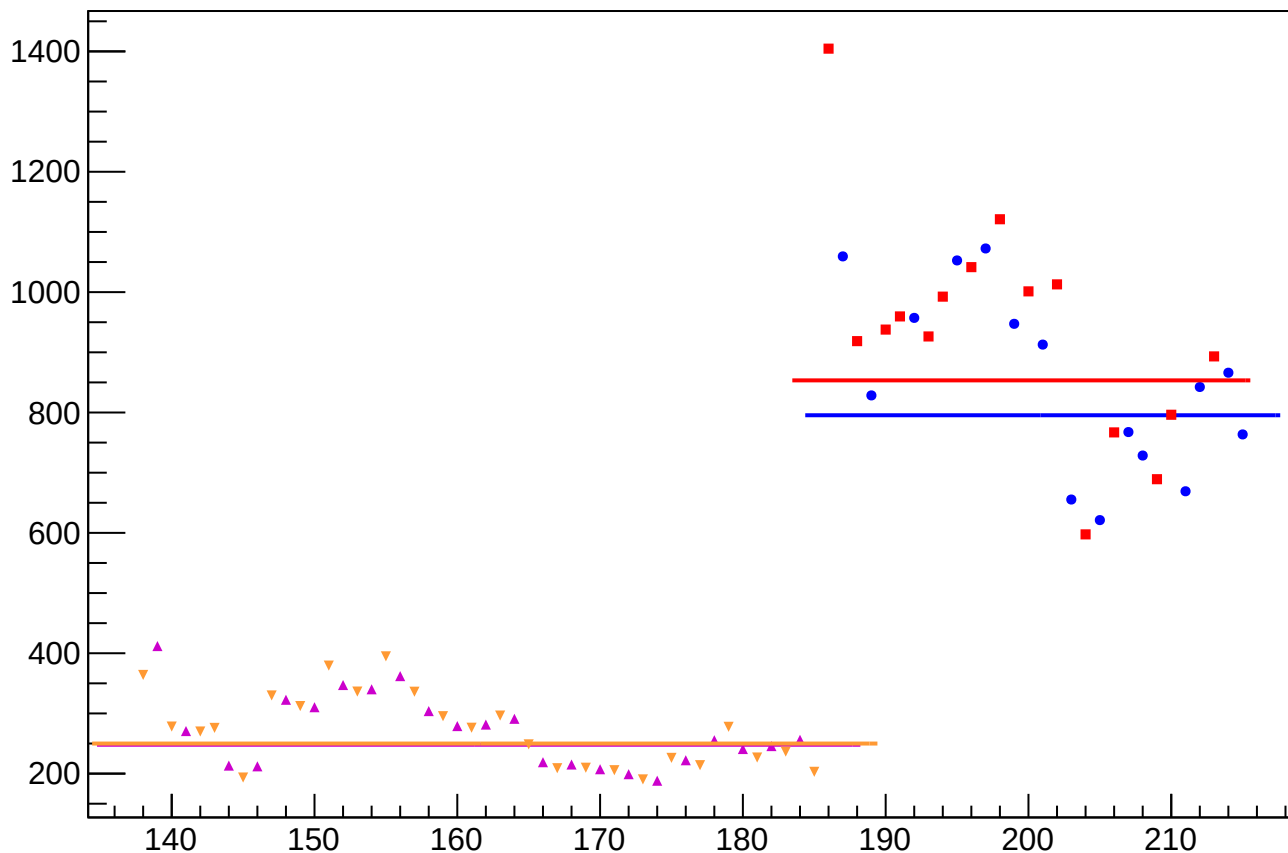
Right: -206.578 $\pm$ 183.565 χ^2 /NDF: 47.9/29

In: -16.066 $\pm$ 59.009 χ^2 /NDF:59.2/37

Out: -238.769 $\pm$ 58.317 χ^2 /NDF:90.1/39

All: -128.732 $\pm$ 41.479 χ^2 /NDF: 156.5/77

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 795.436 $\pm$ 0.175 χ^2 /NDF: 617697.6/14

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24

Right Out: 853.382 $\pm$ 0.193 χ^2 /NDF: 759352.6/14

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

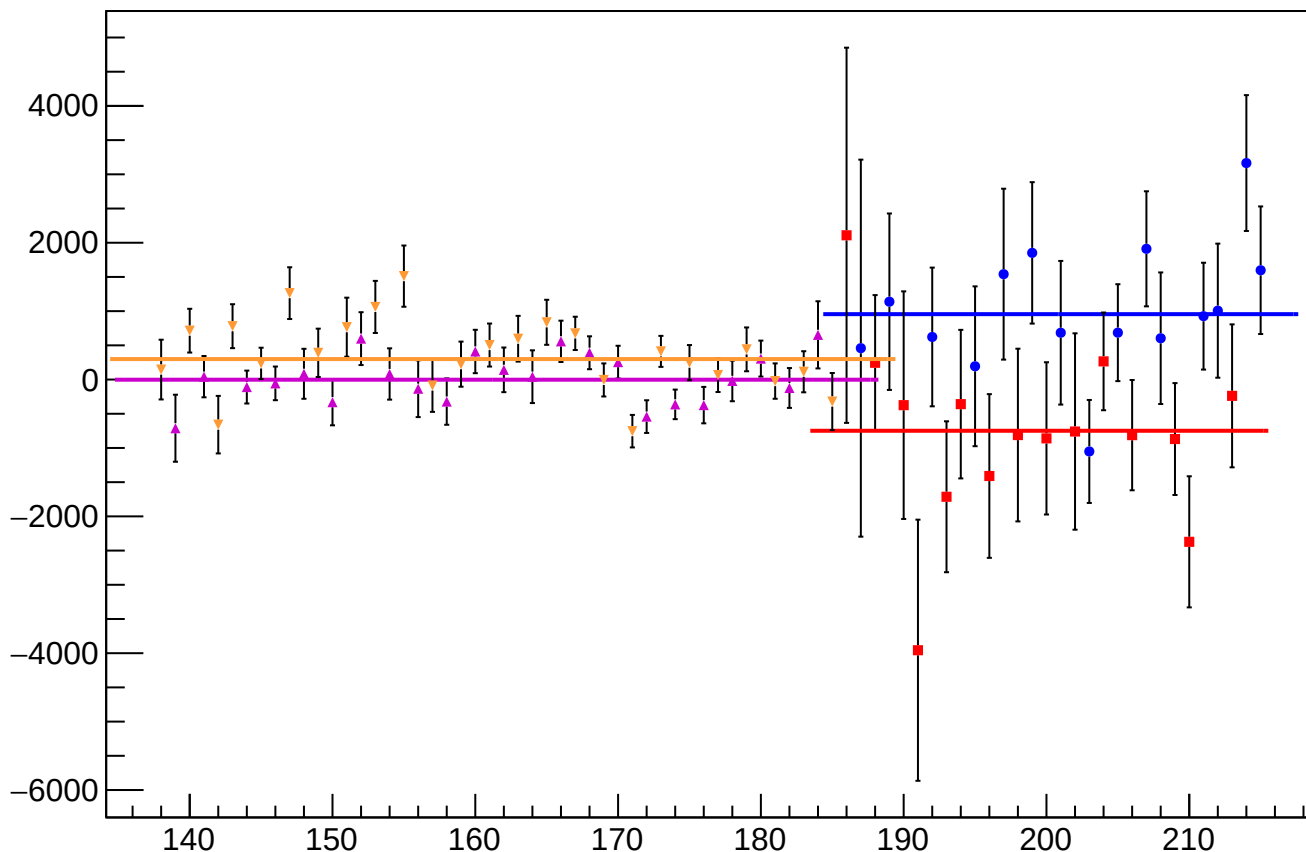
Right: 821.549 $\pm$ 0.130 χ^2 /NDF: 1426387.9/29

In: 278.999 $\pm$ 0.042 χ^2 /NDF: 11248412.6/37

Out: 277.401 $\pm$ 0.041 χ^2 /NDF: 11669938.6/39

All: 278.191 $\pm$ 0.029 χ^2 /NDF: 22919093.1/77

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 956.008+/-249.823 χ^2/NDF : 15.7/14

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -748.614+/-276.484 χ^2/NDF : 11.3/14

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

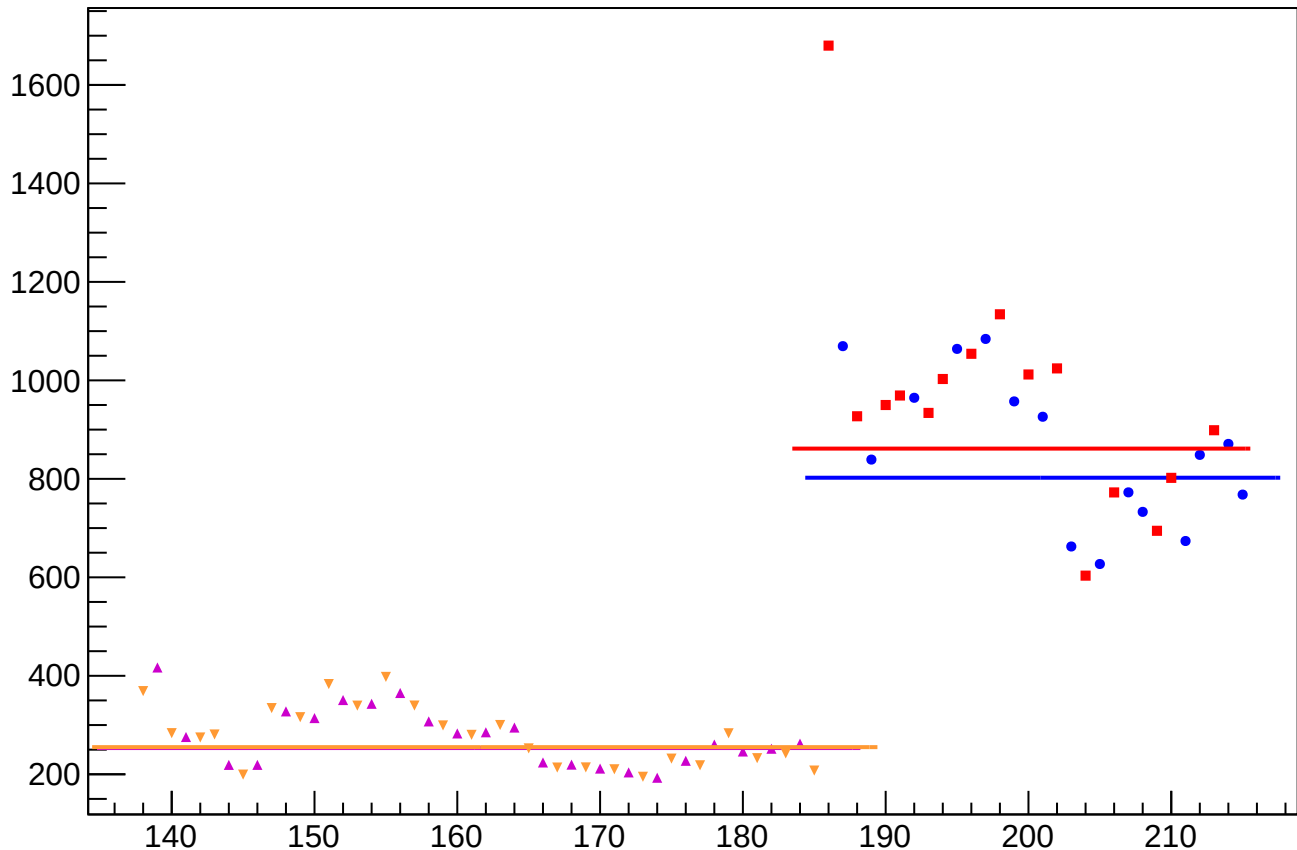
Right: 189.827+/-185.362 χ^2/NDF : 48.0/29

In: 53.415+/-60.179 χ^2/NDF : 58.8/37

Out: 251.122+/-59.437 χ^2/NDF : 87.5/39

All: 153.495+/-42.288 χ^2/NDF : 151.7/77

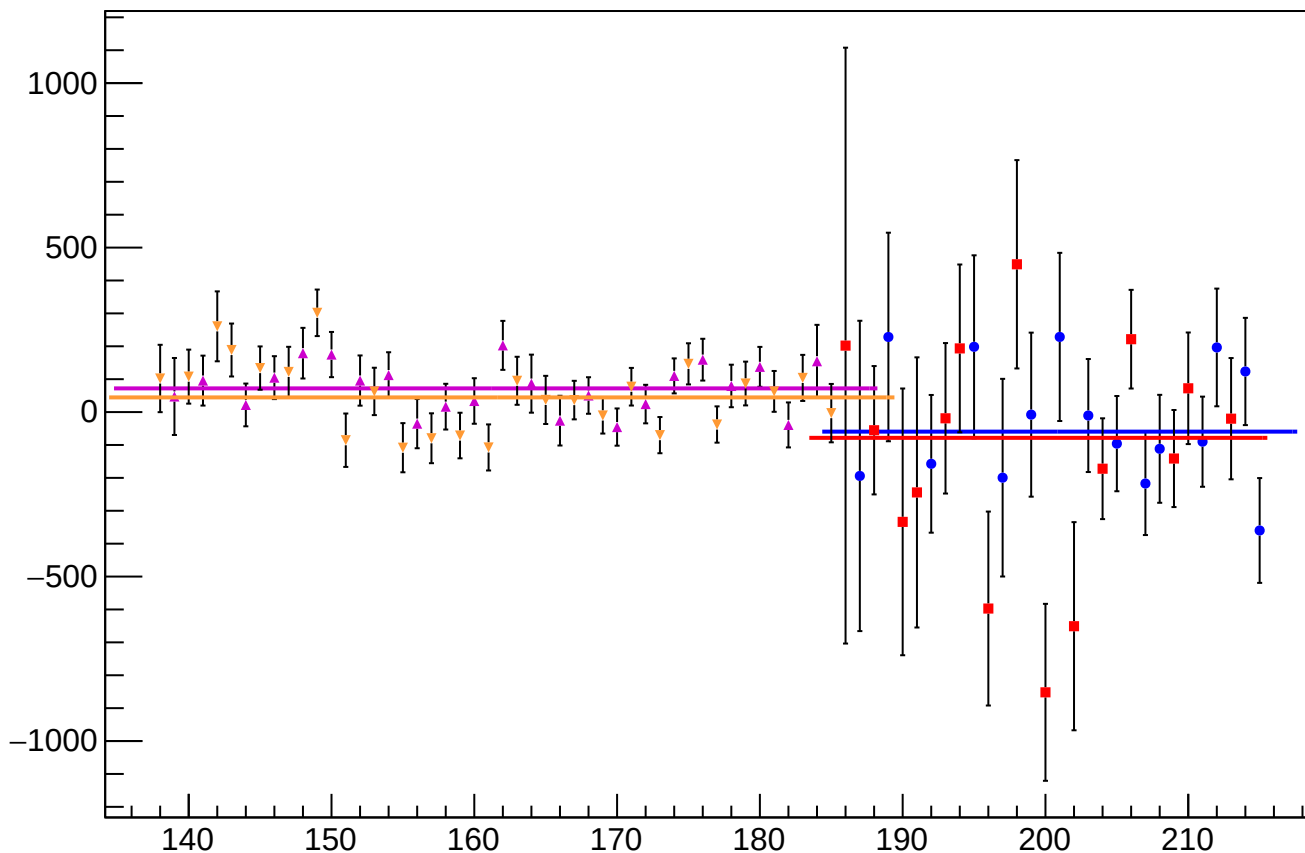
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 802.296 $\pm$ 0.177 χ^2 /NDF: 621816.5/14
 Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24
 Right Out: 861.437 $\pm$ 0.196 χ^2 /NDF: 828166.7/14
 Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47
 Right: 828.878 $\pm$ 0.131 χ^2 /NDF: 1500361.7/29
 In: 285.144 $\pm$ 0.043 χ^2 /NDF:11061818.6/37
 Out: 283.155 $\pm$ 0.042 χ^2 /NDF:11543355.1/39
 All: 284.137 $\pm$ 0.030 χ^2 /NDF: 22606280.3/77

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -59.428 ± 49.162 $\chi^2/\text{NDF}: 11.7/14$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -78.317 ± 56.210 $\chi^2/\text{NDF}: 24.7/14$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

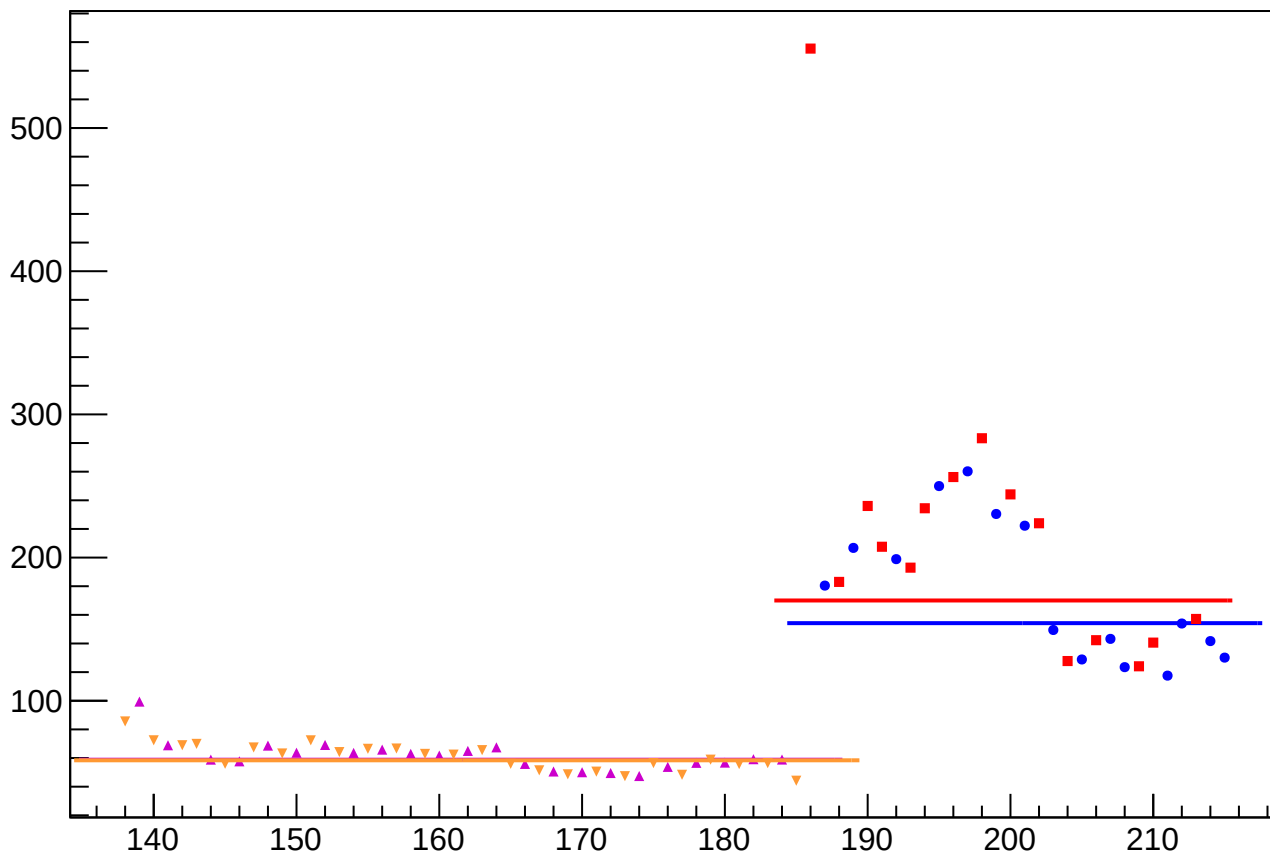
Right: -67.615 ± 37.006 $\chi^2/\text{NDF}: 36.5/29$

In: 61.787 ± 13.728 $\chi^2/\text{NDF}: 43.6/37$

Out: 37.591 ± 13.424 $\chi^2/\text{NDF}: 83.2/39$

All: 49.418 ± 9.598 $\chi^2/\text{NDF}: 128.3/77$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 154.209+/-0.035 χ^2/NDF : 1310762.9/14

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 170.040+/-0.040 χ^2/NDF : 1710382.8/14

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

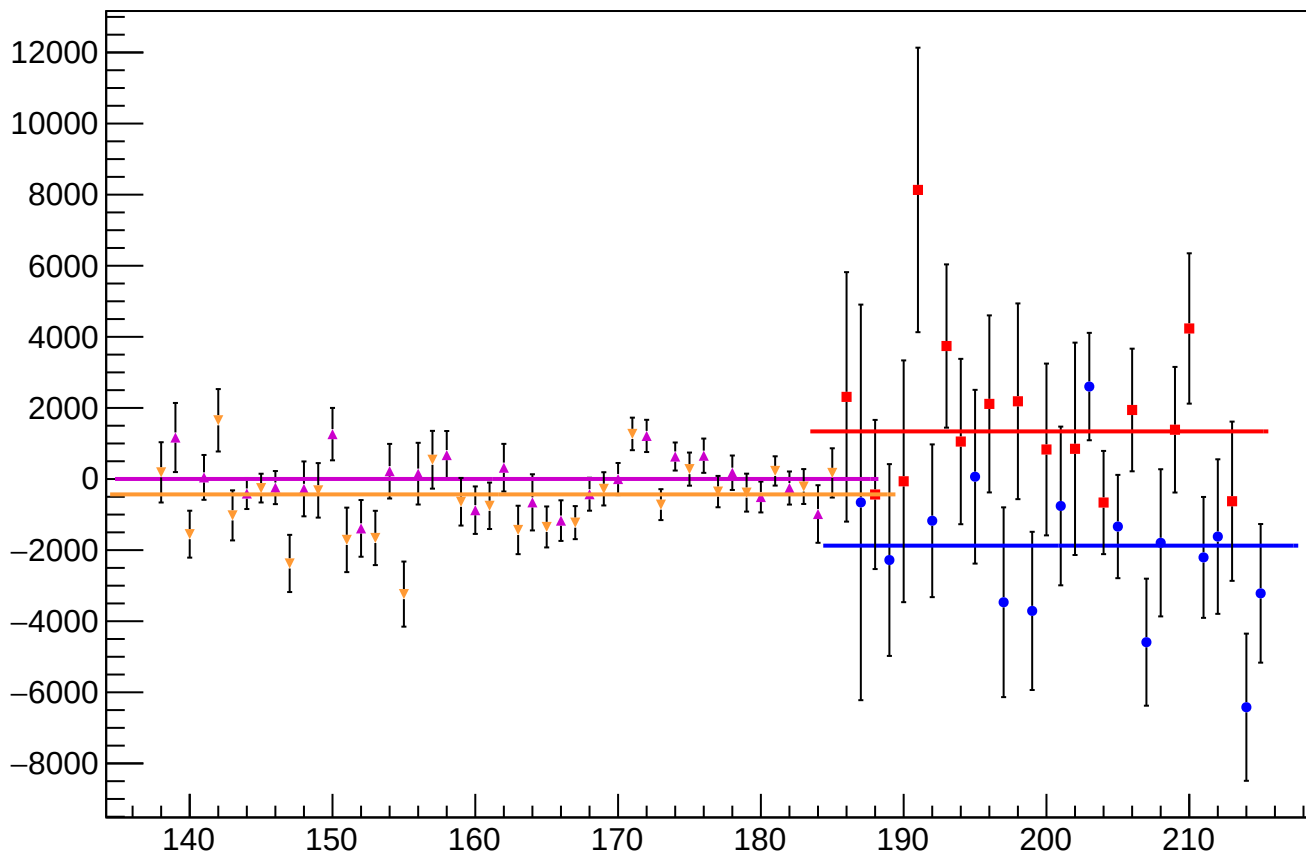
Right: 161.070+/-0.026 χ^2/NDF : 3111031.9/29

In: 66.276+/-0.010 χ^2/NDF : 8930150.3/37

Out: 64.789+/-0.009 χ^2/NDF : 9936756.3/39

All: 65.516+/-0.007 χ^2/NDF : 18878898.2/77

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1874.155 ± 526.387 $\chi^2/\text{NDF}: 18.7/14$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1339.714 ± 581.011 $\chi^2/\text{NDF}: 9.9/14$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

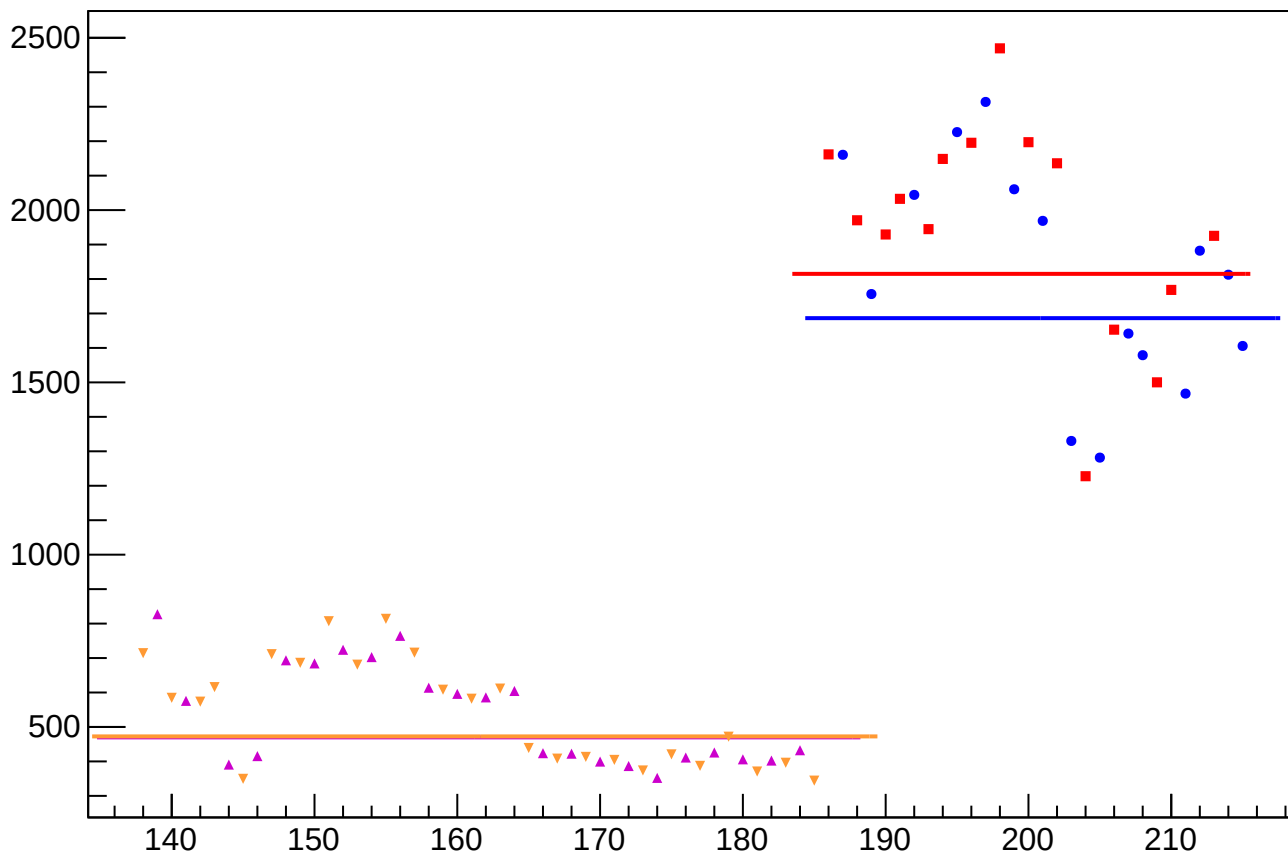
Right: -425.363 ± 390.098 $\chi^2/\text{NDF}: 45.4/29$

In: -85.715 ± 113.709 $\chi^2/\text{NDF}: 63.1/37$

Out: -366.185 ± 112.252 $\chi^2/\text{NDF}: 78.2/39$

All: -227.758 ± 79.885 $\chi^2/\text{NDF}: 144.4/77$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1686.421+/-0.372 χ^2/NDF : 701351.2/14

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1814.939+/-0.411 χ^2/NDF : 733291.1/14

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

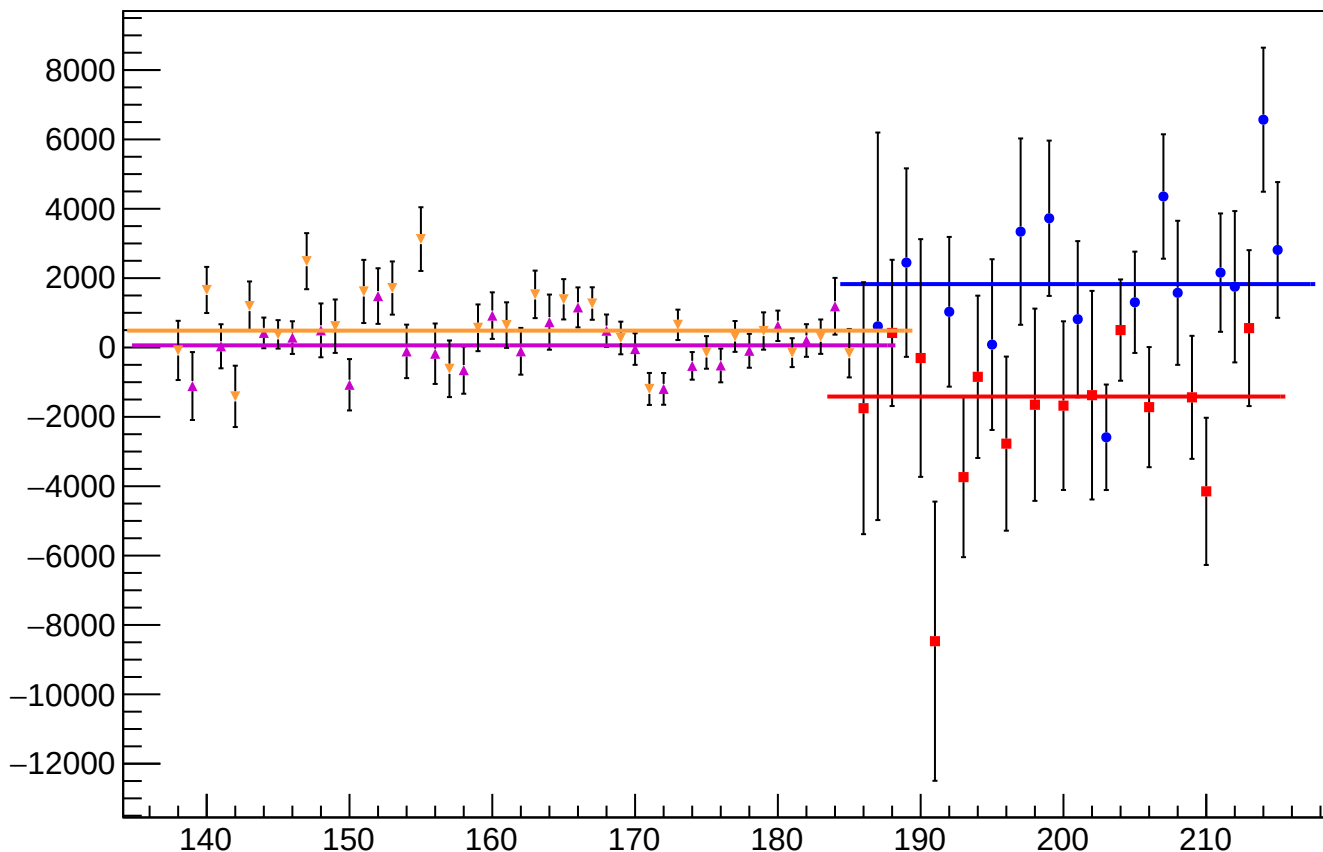
Right: 1744.357+/-0.276 χ^2/NDF : 1488385.8/29

In: 526.535+/-0.080 χ^2/NDF : 13004234.4/37

Out: 522.676+/-0.079 χ^2/NDF : 13518903.3/39

All: 524.580+/-0.056 χ^2/NDF : 26524304.7/77

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1828.033+/-529.091 χ^2 /NDF: 18.0/14

Left Out: 486.645+/-115.346 χ^2 /NDF:56.0/24

Right Out: -1413.668+/-584.532 χ^2 /NDF: 9.5/14

Left In: 61.775+/-117.449 χ^2 /NDF:31.2/22

Left: 278.047+/-82.295 χ^2 /NDF: 93.8/47

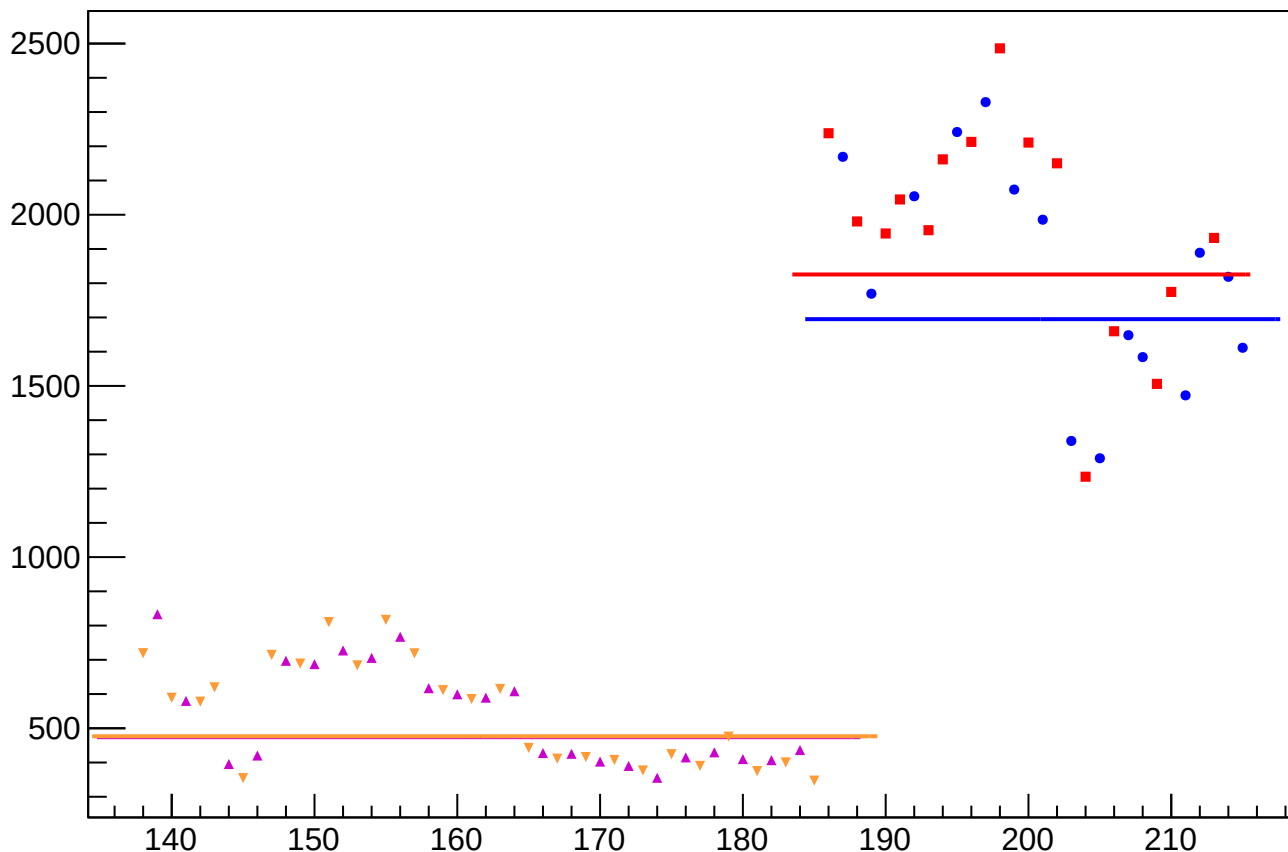
Right: 368.171+/-392.263 χ^2 /NDF: 44.4/29

In: 144.722+/-114.658 χ^2 /NDF:59.8/37

Out: 415.422+/-113.164 χ^2 /NDF:75.7/39

All: 281.847+/-80.542 χ^2 /NDF: 138.3/77

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1694.997 $\pm$ 0.374 χ^2 /NDF: 703421.5/14

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1825.504 $\pm$ 0.413 χ^2 /NDF: 743492.7/14

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

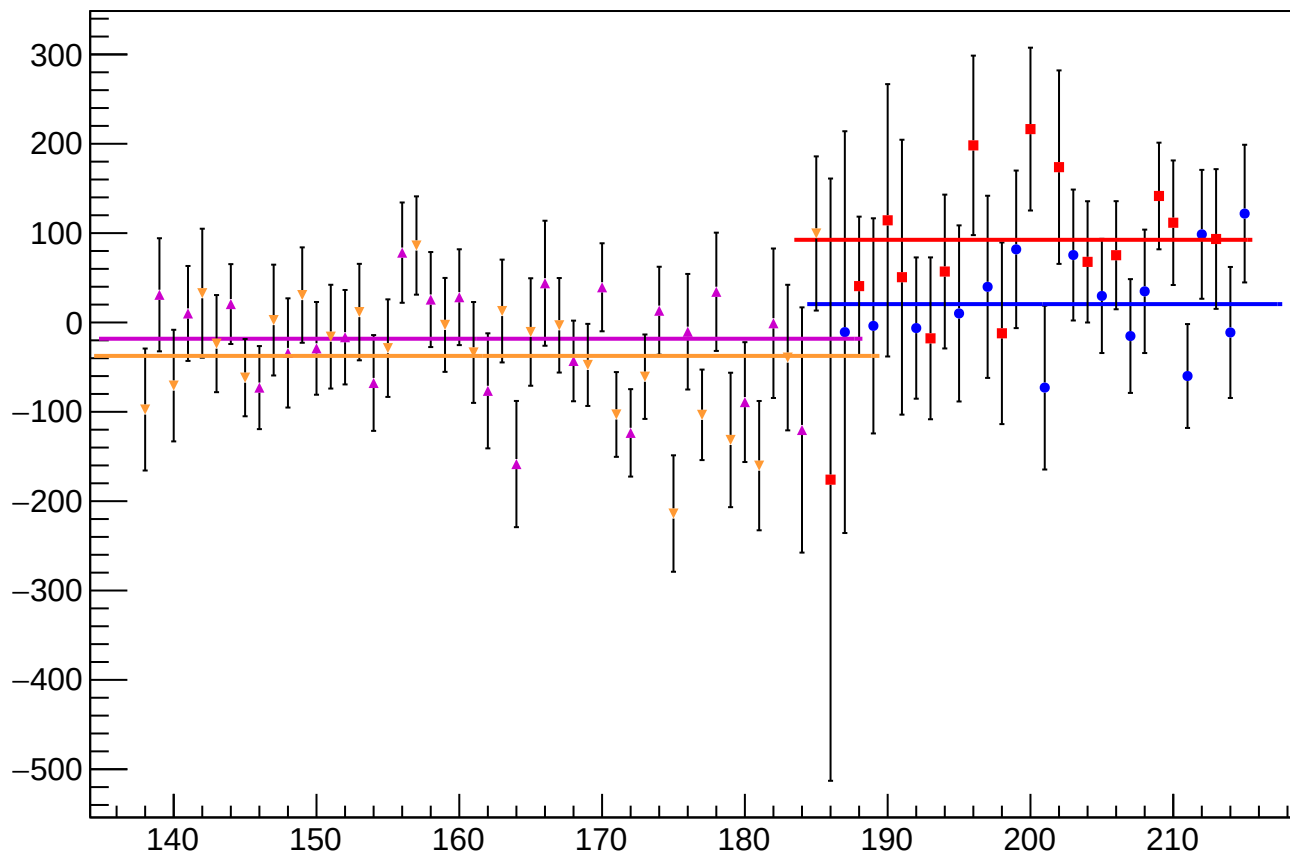
Right: 1753.770 $\pm$ 0.277 χ^2 /NDF: 1501713.8/29

In: 531.325 $\pm$ 0.081 χ^2 /NDF: 12941829.3/37

Out: 527.244 $\pm$ 0.080 χ^2 /NDF: 13466317.3/39

All: 529.257 $\pm$ 0.057 χ^2 /NDF: 26409430.2/77

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 20.549 $\pm$ 20.304 χ^2 /NDF: 7.7/14

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 92.516 $\pm$ 22.040 χ^2 /NDF: 8.4/14

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

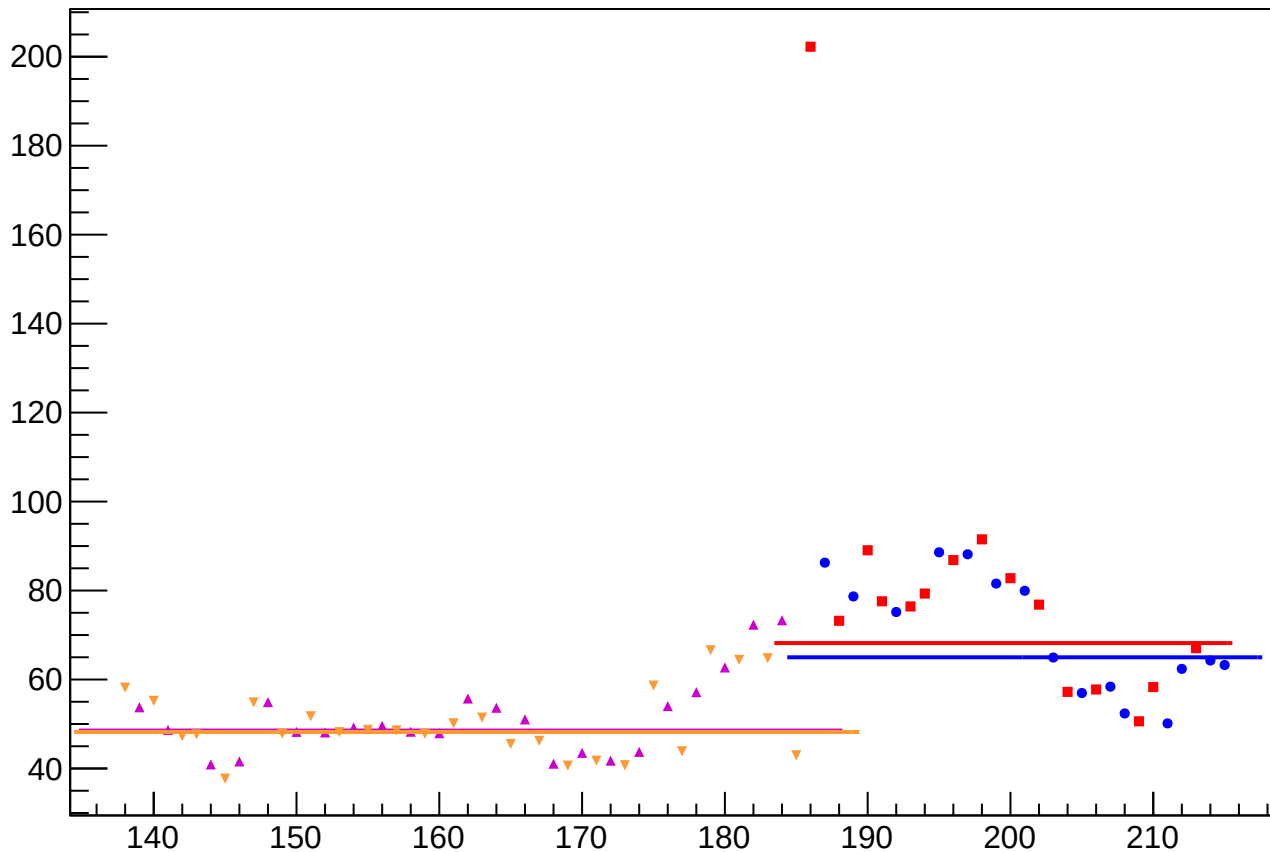
Right: 53.588 $\pm$ 14.933 χ^2 /NDF: 21.8/29

In: -8.439 $\pm$ 10.194 χ^2 /NDF:33.4/37

Out: -10.027 $\pm$ 10.118 χ^2 /NDF:66.3/39

All: -9.239 $\pm$ 7.182 χ^2 /NDF: 99.7/77

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.992 $\pm$ 0.014 χ^2 /NDF: 673000.1/14

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 68.199 $\pm$ 0.016 χ^2 /NDF: 984152.9/14

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

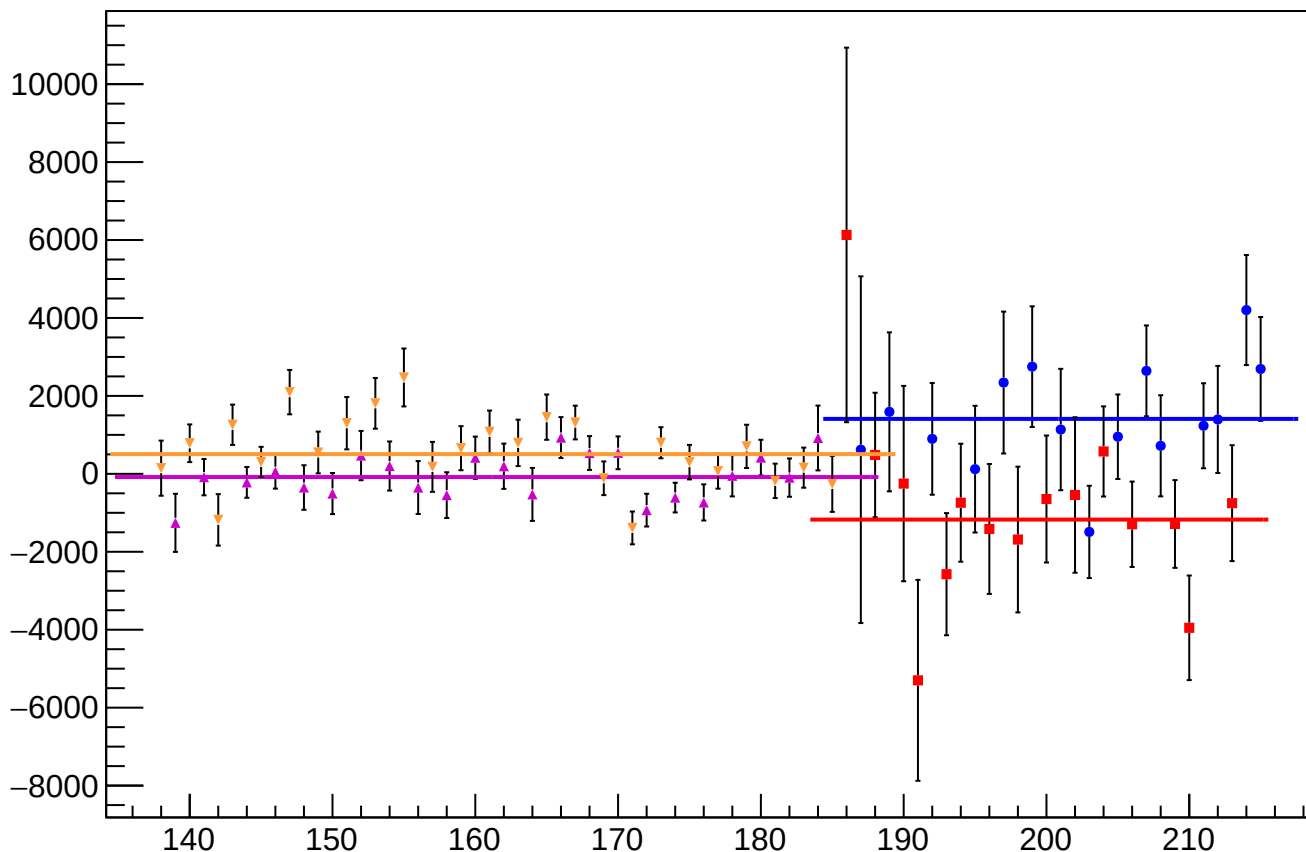
Right: 66.464 $\pm$ 0.011 χ^2 /NDF: 1680065.1/29

In: 52.677 $\pm$ 0.007 χ^2 /NDF: 2331997.4/37

Out: 52.415 $\pm$ 0.007 χ^2 /NDF: 3034108.0/39

All: 52.545 $\pm$ 0.005 χ^2 /NDF: 5366772.7/77

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1409.933 $\pm$ 362.375 χ^2 /NDF: 14.3/14

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1173.868 $\pm$ 400.372 χ^2 /NDF: 13.9/14

Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47

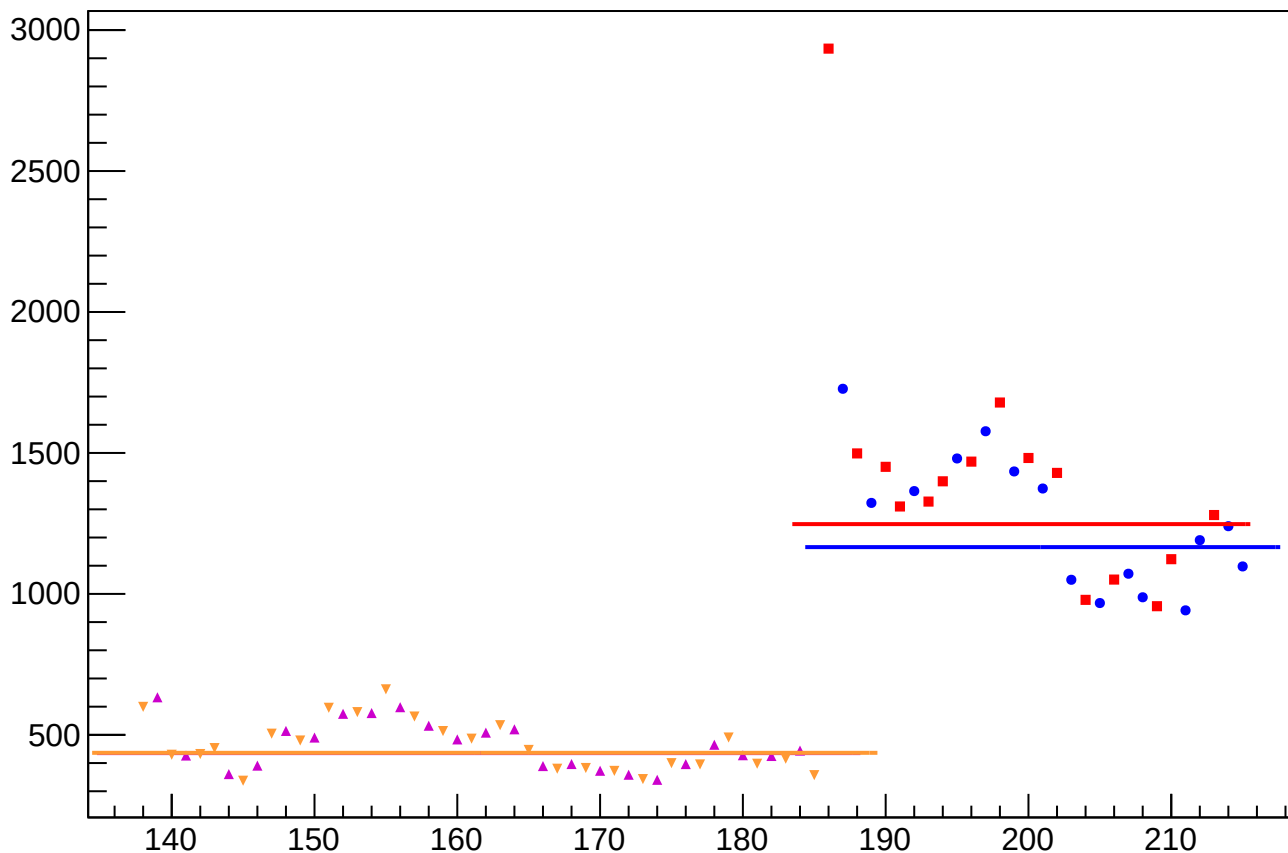
Right: 246.431 $\pm$ 268.669 χ^2 /NDF: 51.1/29

In: 35.075 $\pm$ 101.679 χ^2 /NDF:55.3/37

Out: 401.025 $\pm$ 100.177 χ^2 /NDF:96.2/39

All: 220.775 $\pm$ 71.361 χ^2 /NDF: 158.0/77

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1165.973+/-0.256 χ^2/NDF : 587469.4/14

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1247.572+/-0.283 χ^2/NDF : 859393.8/14

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

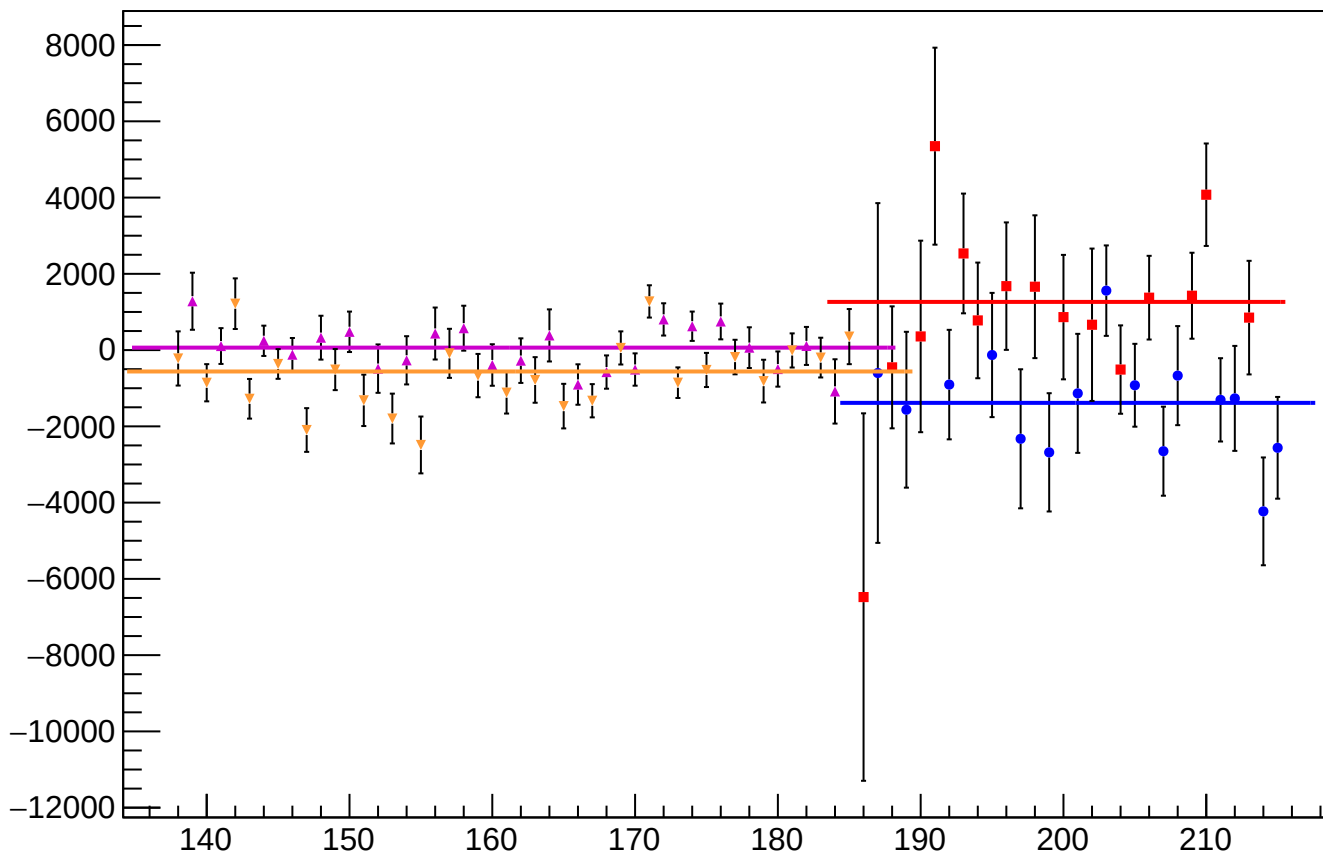
Right: 1202.717+/-0.190 χ^2/NDF : 1492529.1/29

In: 492.804+/-0.072 χ^2/NDF : 9106798.9/37

Out: 487.090+/-0.071 χ^2/NDF : 9736348.5/39

All: 489.905+/-0.050 χ^2/NDF : 18846352.1/77

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1383.775 $\pm$ 362.978 χ^2 /NDF: 14.4/14

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 1263.890 $\pm$ 401.026 χ^2 /NDF: 14.2/14

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

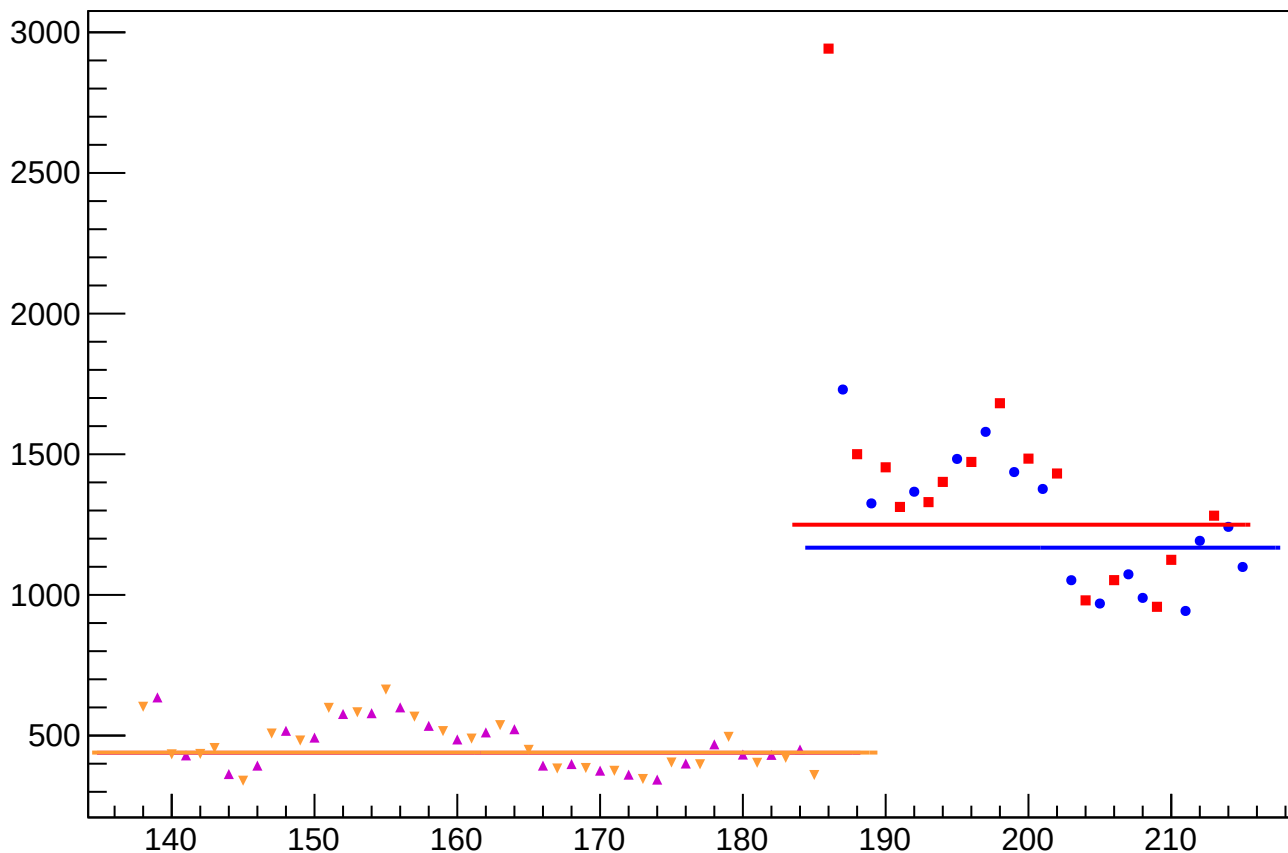
Right: -191.469 $\pm$ 269.113 χ^2 /NDF: 52.6/29

In: -50.621 $\pm$ 102.375 χ^2 /NDF:54.2/37

Out: -445.276 $\pm$ 100.858 χ^2 /NDF:95.3/39

All: -250.896 $\pm$ 71.848 χ^2 /NDF: 157.1/77

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1167.909+/-0.257 χ^2/NDF : 587839.0/14

Left Out: 439.527+/-0.074 χ^2/NDF : 1163352.8/24

Right Out: 1249.588+/-0.284 χ^2/NDF : 860086.6/14

Left In: 438.548+/-0.075 χ^2/NDF : 1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

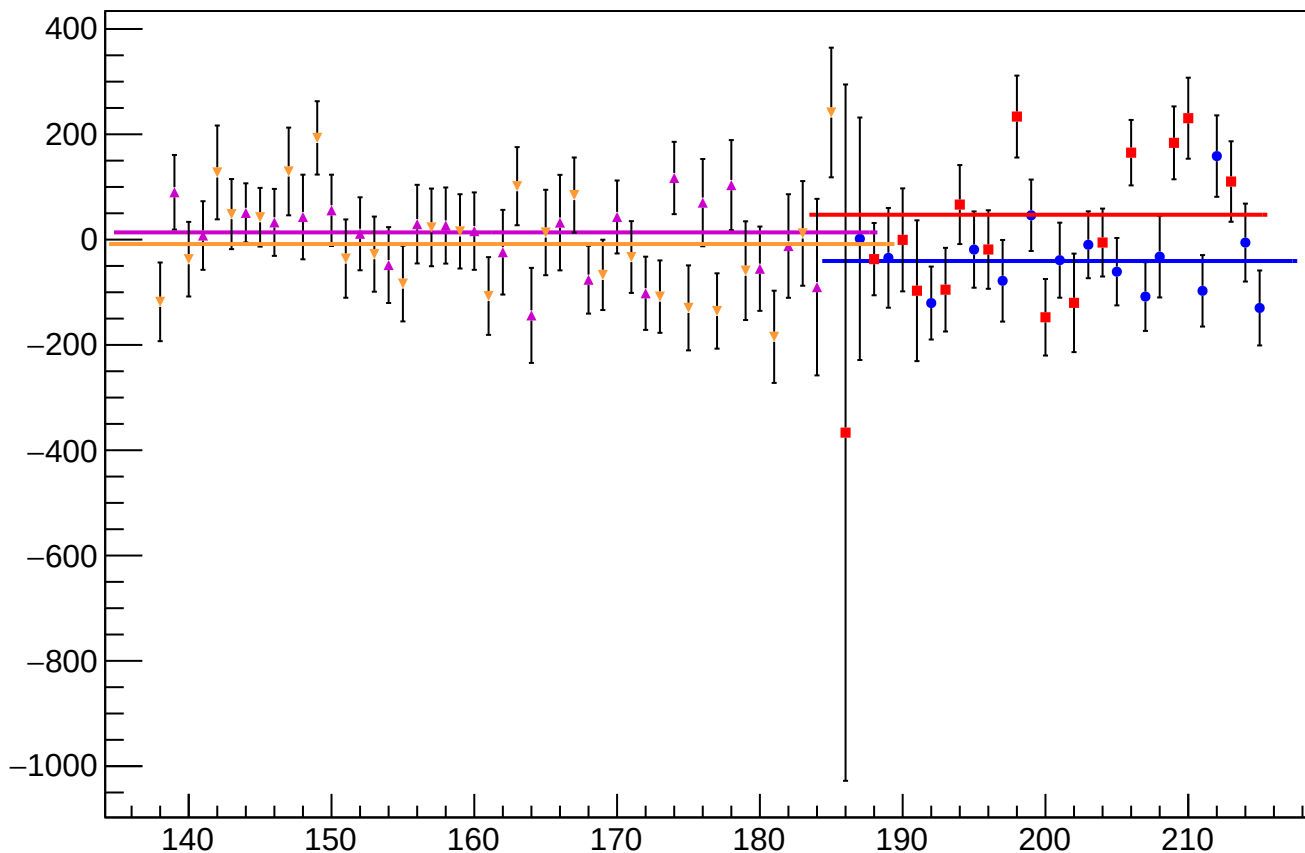
Right: 1204.691+/-0.190 χ^2/NDF : 1493530.5/29

In: 496.567+/-0.072 χ^2/NDF : 9033752.4/37

Out: 490.765+/-0.071 χ^2/NDF : 9667850.3/39

All: 493.623+/-0.051 χ^2/NDF : 18704862.8/77

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -40.663 ± 19.008 χ^2/NDF : 13.9/14

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 47.234 ± 20.380 χ^2/NDF : 38.0/14

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

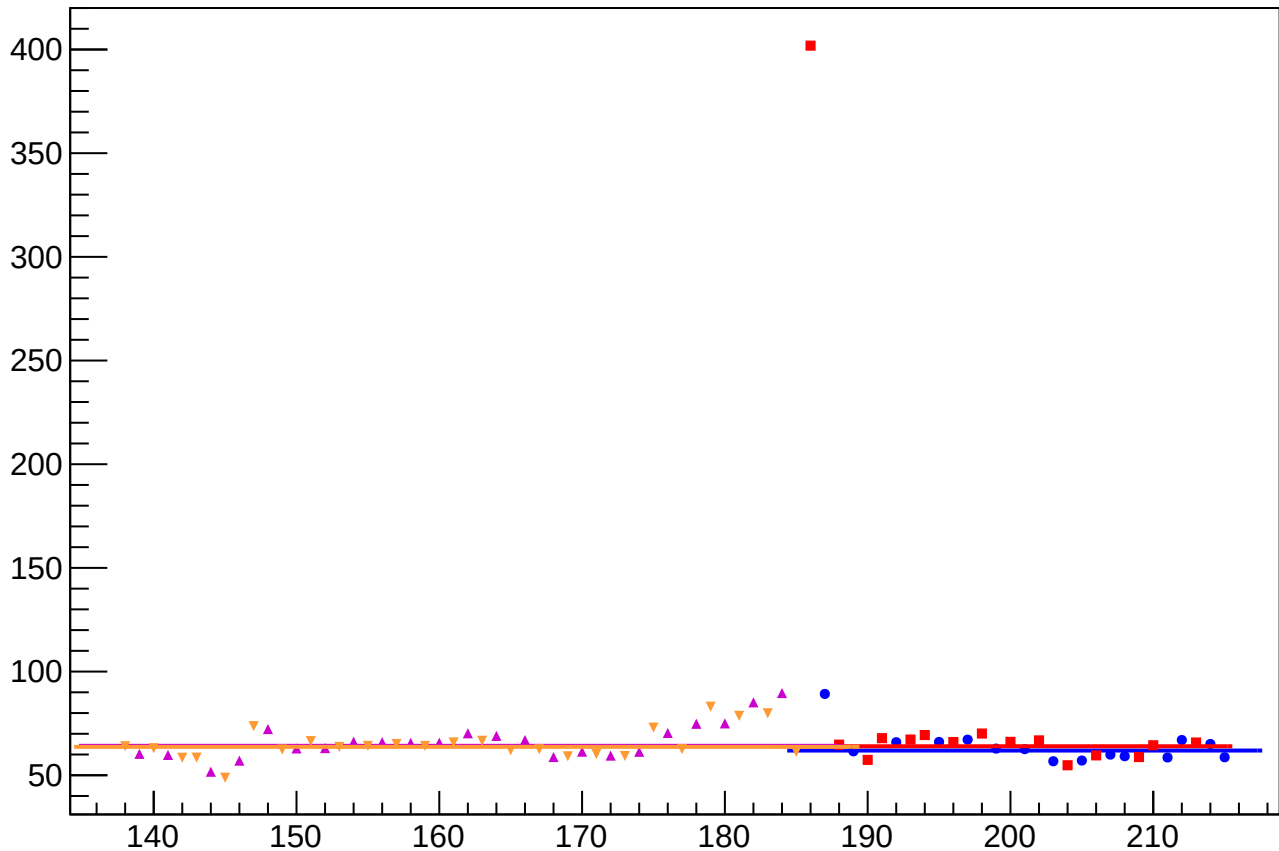
Right: 0.226 ± 13.900 χ^2/NDF : 61.8/29

In: -7.961 ± 12.002 χ^2/NDF : 35.1/37

Out: 11.027 ± 12.046 χ^2/NDF : 84.5/39

All: 1.498 ± 8.502 χ^2/NDF : 120.8/77

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.915 $\pm$ 0.013 χ^2 /NDF: 101349.4/14

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 63.986 $\pm$ 0.014 χ^2 /NDF: 627296.7/14

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

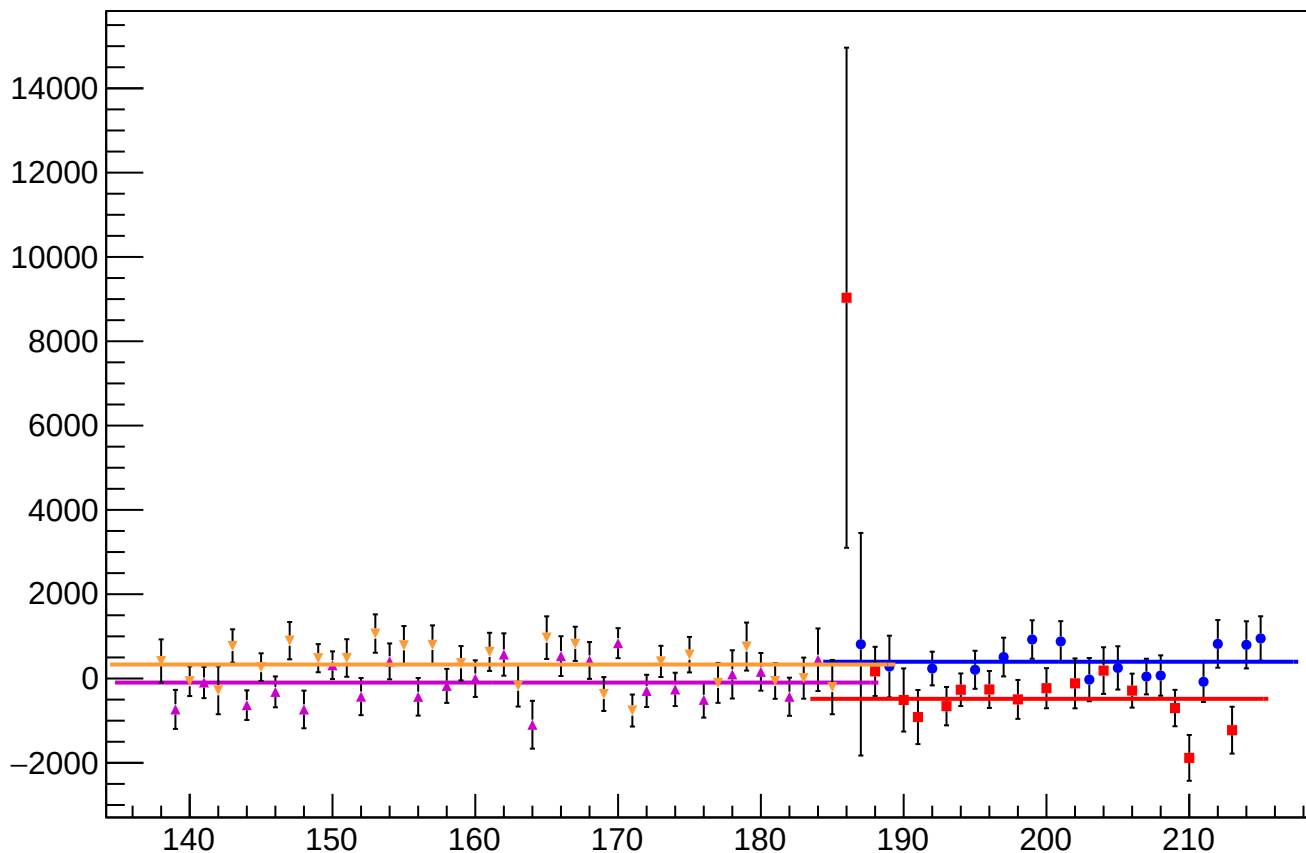
Right: 62.879 $\pm$ 0.010 χ^2 /NDF: 739687.0/29

In: 63.283 $\pm$ 0.008 χ^2 /NDF: 548226.9/37

Out: 63.797 $\pm$ 0.009 χ^2 /NDF: 1075999.7/39

All: 63.539 $\pm$ 0.006 χ^2 /NDF: 1626059.1/77

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 397.869 ± 130.300 χ^2/NDF : 7.9/14

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -481.839 ± 132.140 χ^2/NDF : 16.0/14

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

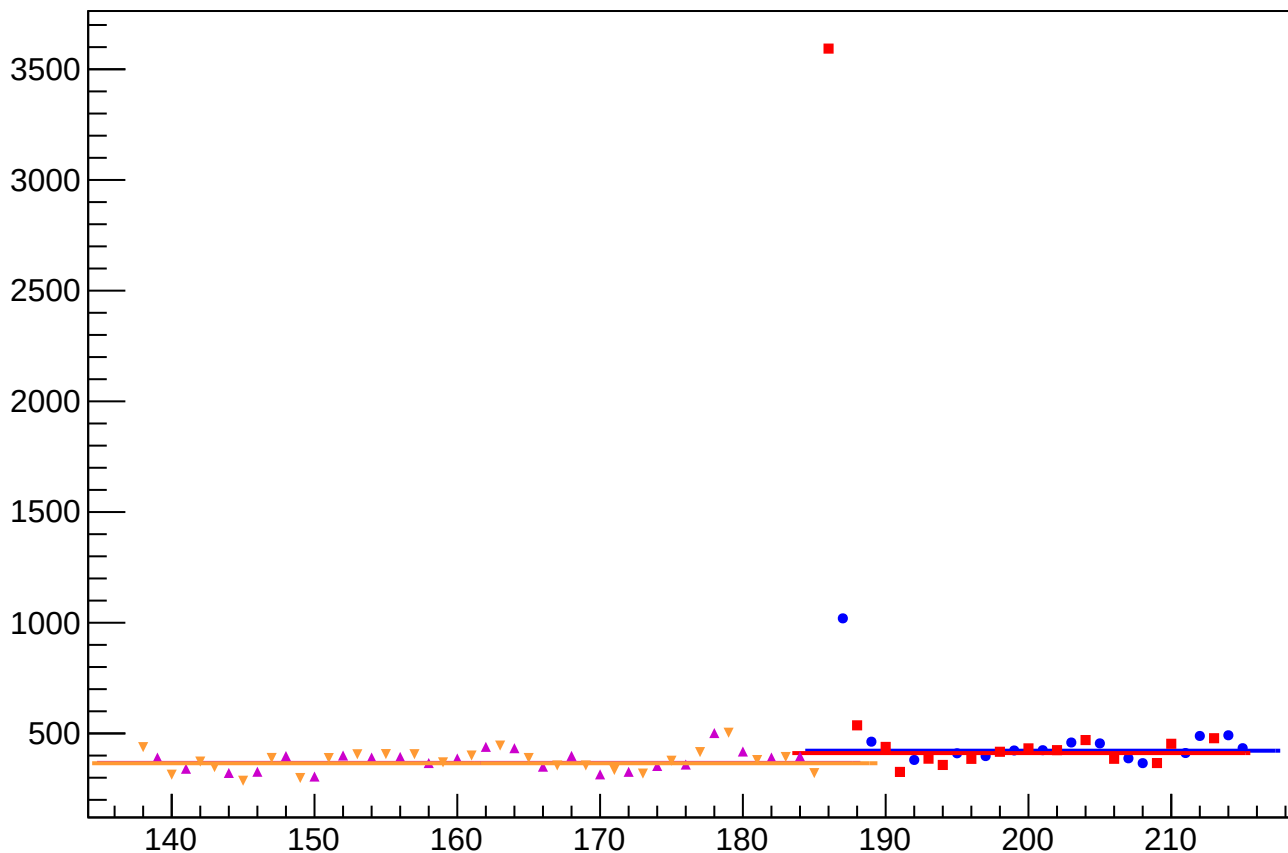
Right: -35.818 ± 92.780 χ^2/NDF : 46.4/29

In: 60.344 ± 73.298 χ^2/NDF : 46.4/37

Out: 89.385 ± 72.121 χ^2/NDF : 72.5/39

All: 75.100 ± 51.408 χ^2/NDF : 119.0/77

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 421.987+/-0.092 χ^2/NDF : 257625.9/14

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 411.204+/-0.093 χ^2/NDF : 856611.3/14

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

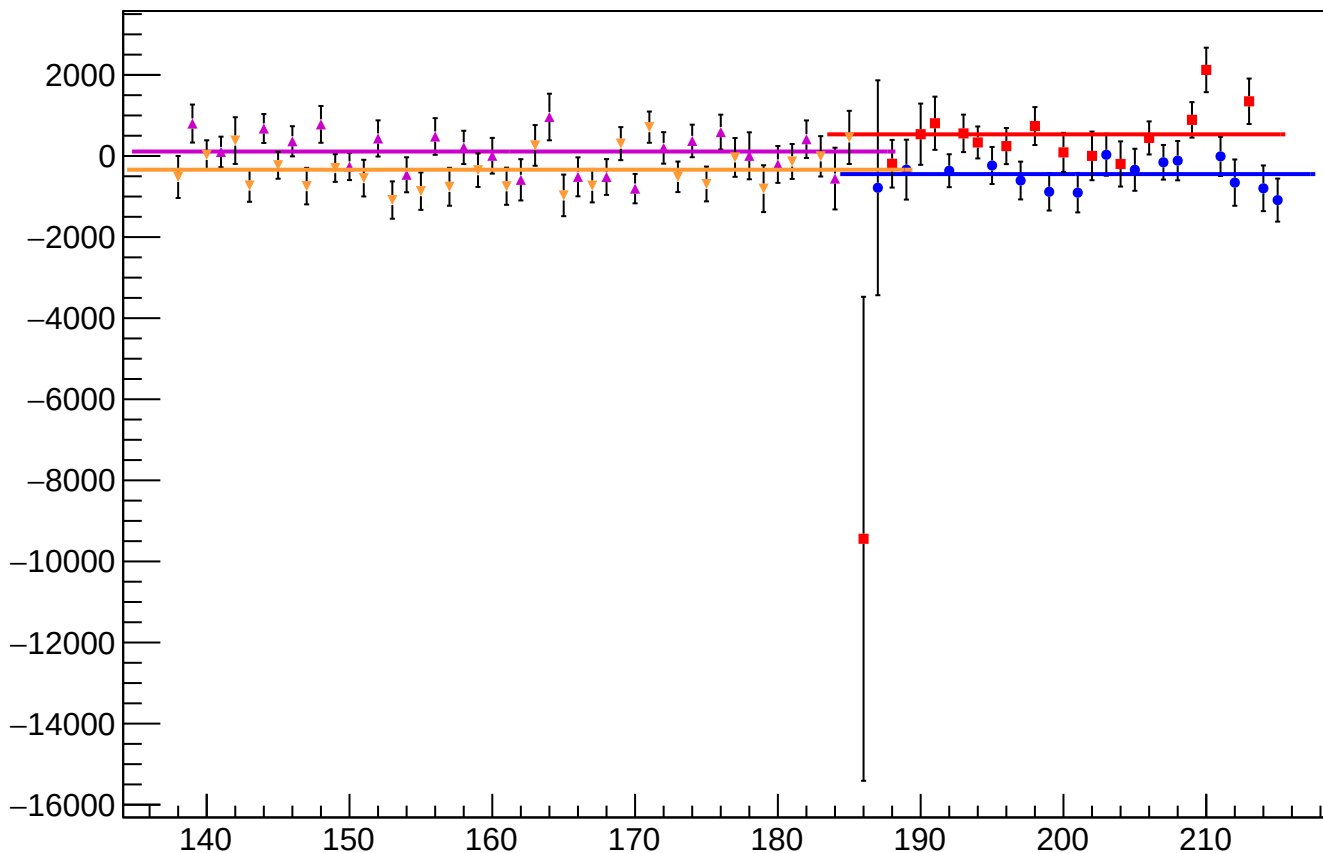
Right: 416.671+/-0.066 χ^2/NDF : 1120989.5/29

In: 384.349+/-0.052 χ^2/NDF : 979836.5/37

Out: 379.013+/-0.051 χ^2/NDF : 1644116.4/39

All: 381.638+/-0.036 χ^2/NDF : 2629338.1/77

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -446.415 $\pm$ 131.794 χ^2/NDF : 6.8/14

Left Out: -338.528 $\pm$ 87.450 χ^2/NDF :28.2/24

Right Out: 534.082 $\pm$ 133.887 χ^2/NDF : 19.9/14

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

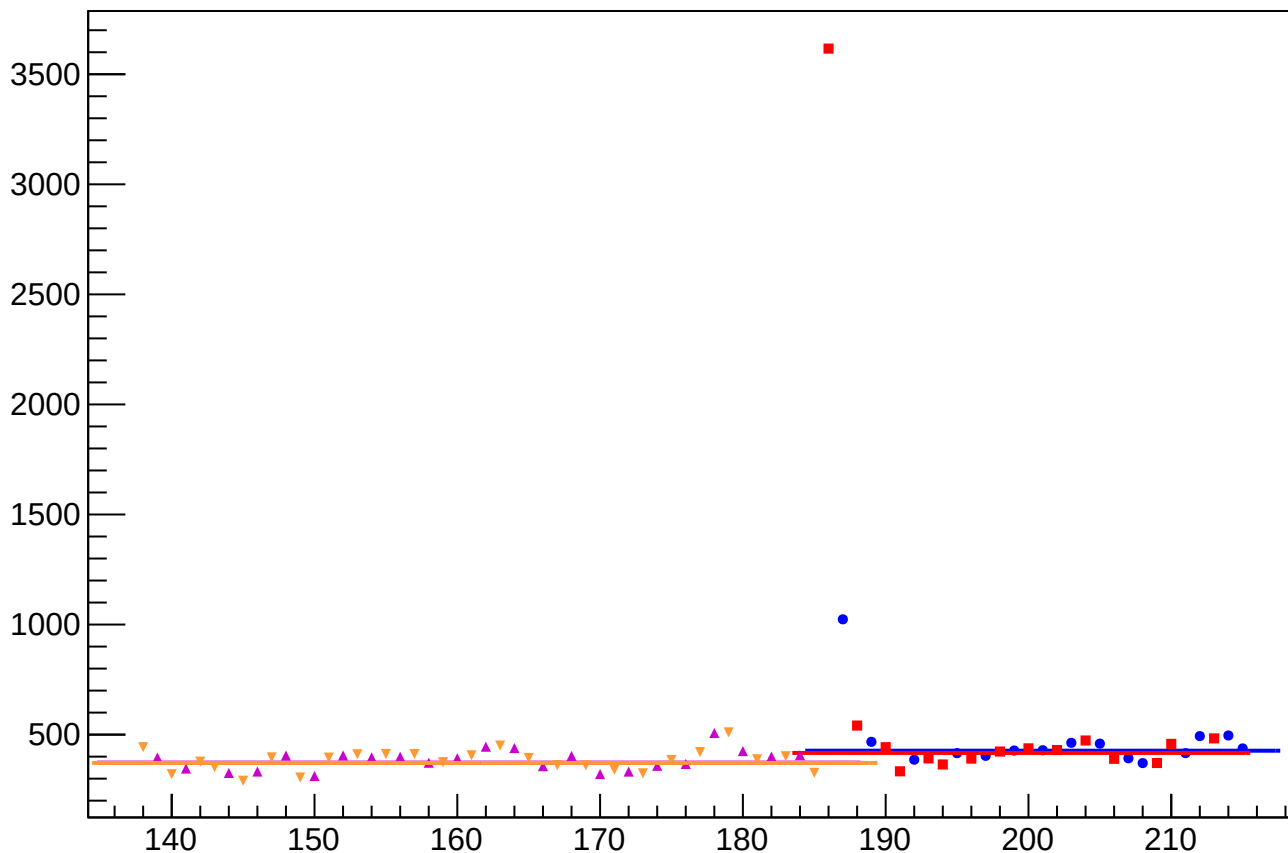
Right: 36.109 $\pm$ 93.924 χ^2/NDF : 54.0/29

In: -66.947 $\pm$ 74.371 χ^2/NDF :48.2/37

Out: -77.579 $\pm$ 73.216 χ^2/NDF :77.9/39

All: -72.346 $\pm$ 52.175 χ^2/NDF : 126.1/77

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 426.948 $\pm$ 0.093 χ^2 /NDF: 249955.7/14

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 416.844 $\pm$ 0.095 χ^2 /NDF: 842051.6/14

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

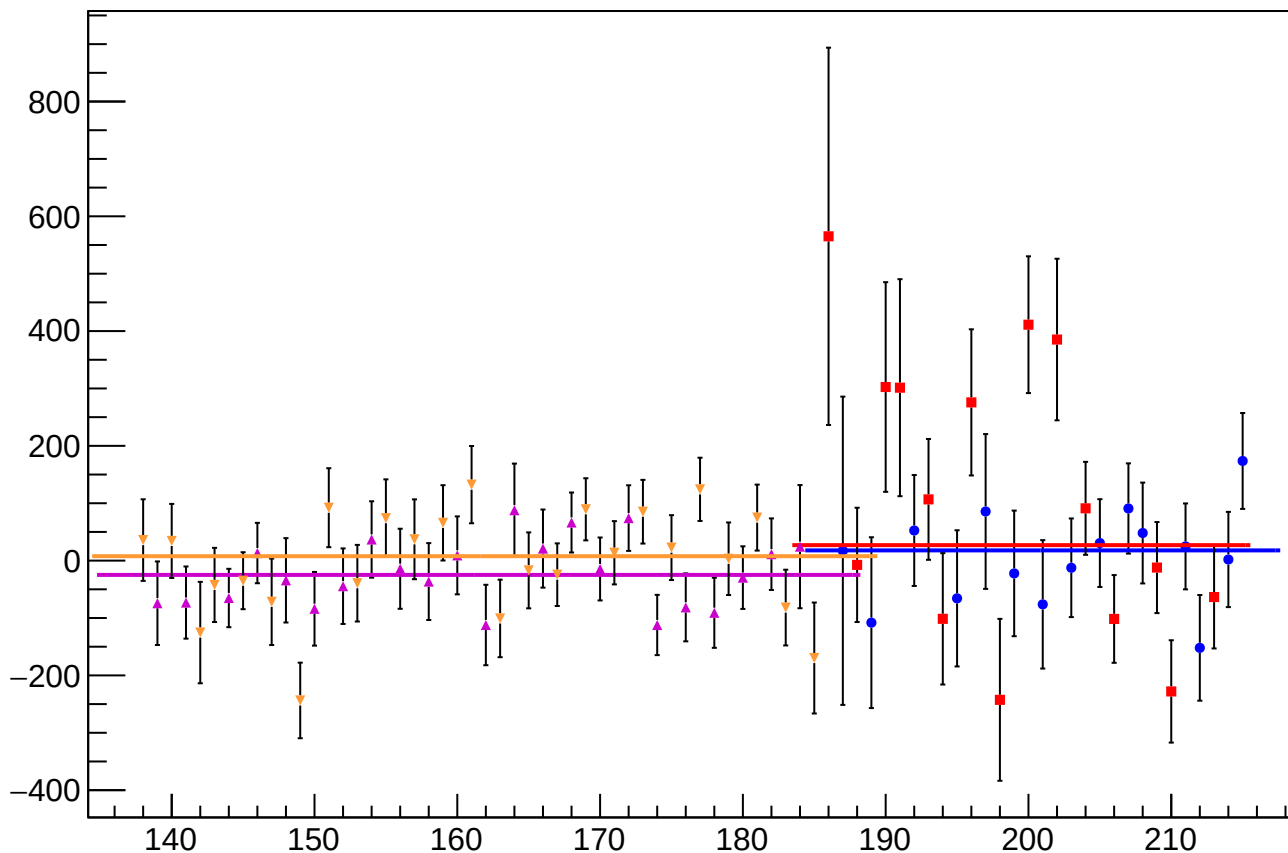
Right: 421.975 $\pm$ 0.066 χ^2 /NDF: 1097791.9/29

In: 390.136 $\pm$ 0.053 χ^2 /NDF: 946222.8/37

Out: 384.959 $\pm$ 0.052 χ^2 /NDF: 1607944.0/39

All: 387.507 $\pm$ 0.037 χ^2 /NDF: 2559088.8/77

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 17.827+/-24.710 χ^2/NDF : 10.5/14

Left Out: 7.723+/-12.656 χ^2/NDF : 45.4/24

Right Out: 26.972+/-27.734 χ^2/NDF : 46.2/14

Left In: -24.887+/-13.029 χ^2/NDF : 19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

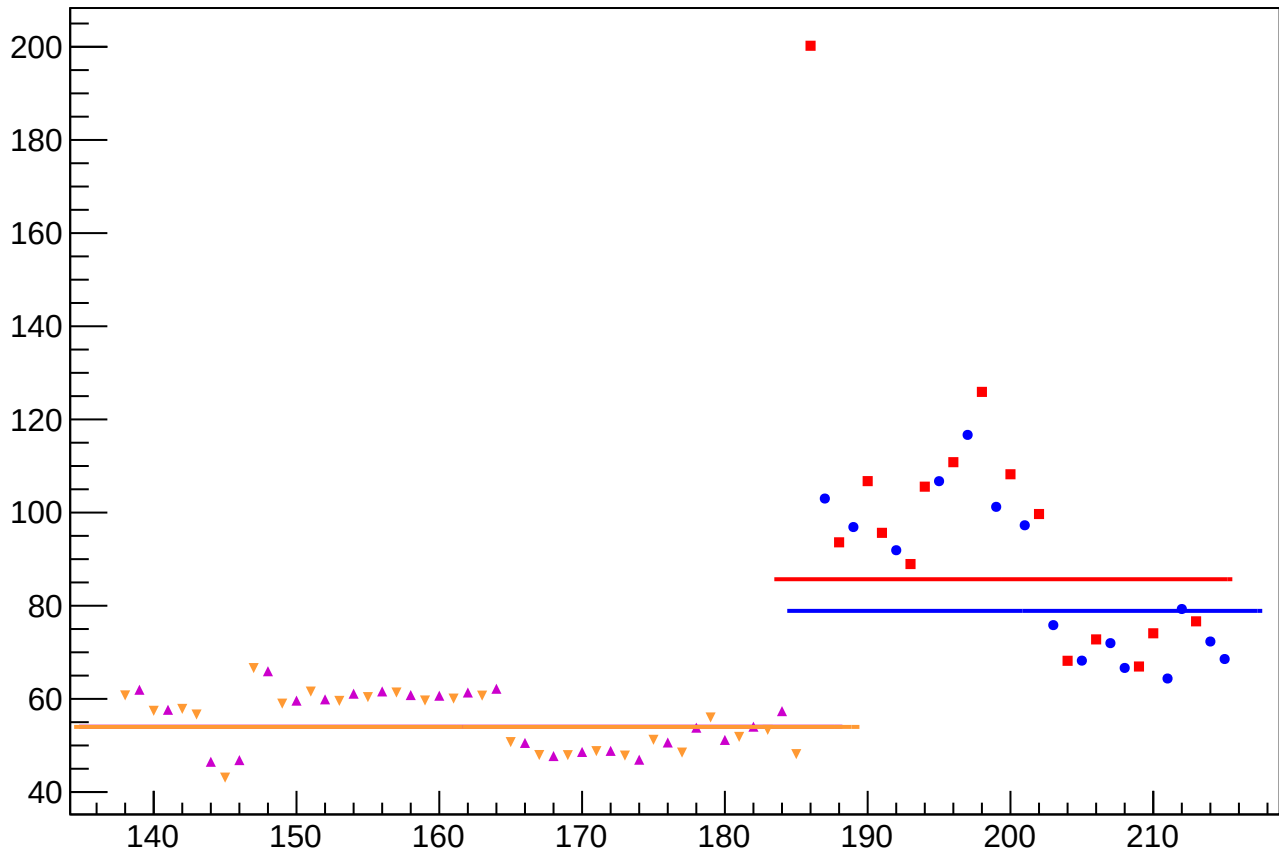
Right: 21.874+/-18.449 χ^2/NDF : 56.8/29

In: -15.595+/-11.525 χ^2/NDF : 32.6/37

Out: 11.041+/-11.514 χ^2/NDF : 92.0/39

All: -2.264+/-8.145 χ^2/NDF : 127.3/77

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 78.896 $\pm$ 0.017 χ^2 /NDF: 700345.4/14

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 85.690 $\pm$ 0.020 χ^2 /NDF: 997945.8/14

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

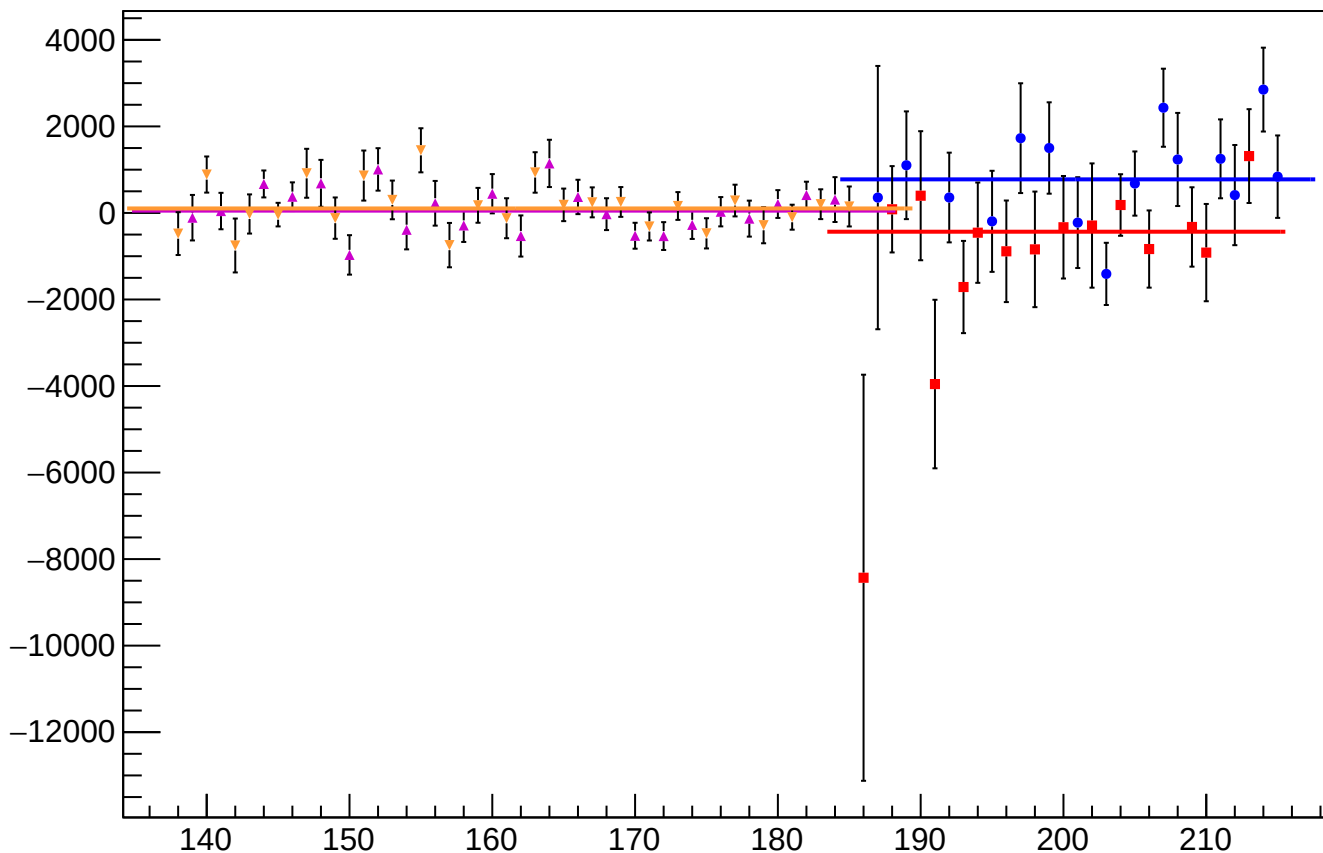
Right: 81.903 $\pm$ 0.013 χ^2 /NDF: 1765192.8/29

In: 59.438 $\pm$ 0.008 χ^2 /NDF: 2729312.9/37

Out: 59.448 $\pm$ 0.008 χ^2 /NDF: 3620372.3/39

All: 59.443 $\pm$ 0.006 χ^2 /NDF: 6349686.0/77

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 776.107 $\pm$ 259.906 χ^2 /NDF: 20.6/14

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -433.832 $\pm$ 289.449 χ^2 /NDF: 12.2/14

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

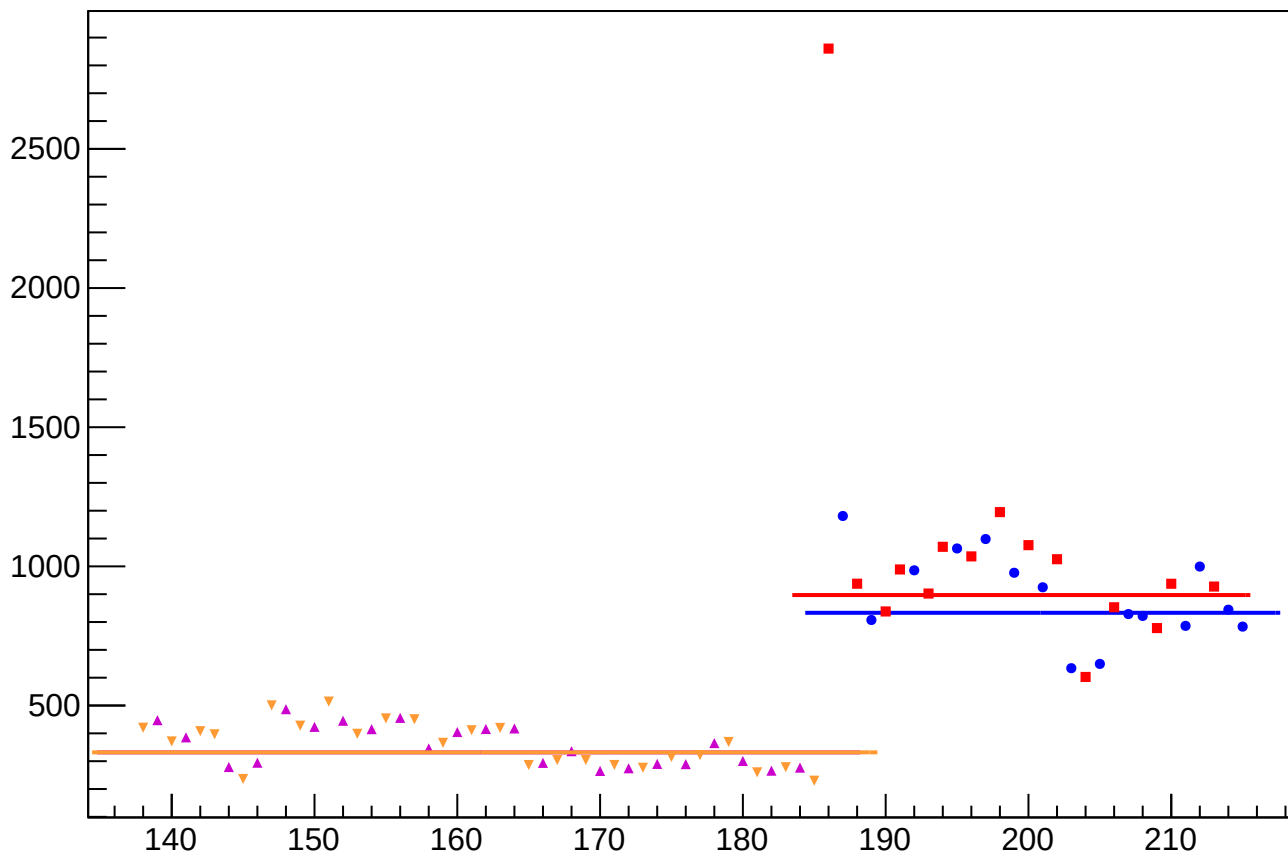
Right: 236.016 $\pm$ 193.385 χ^2 /NDF: 42.5/29

In: 117.754 $\pm$ 77.506 χ^2 /NDF:61.8/37

Out: 66.194 $\pm$ 76.521 χ^2 /NDF:46.4/39

All: 91.644 $\pm$ 54.454 χ^2 /NDF: 108.4/77

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 833.174+/-0.184 χ^2/NDF : 616725.6/14

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 896.929+/-0.205 χ^2/NDF : 980135.9/14

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

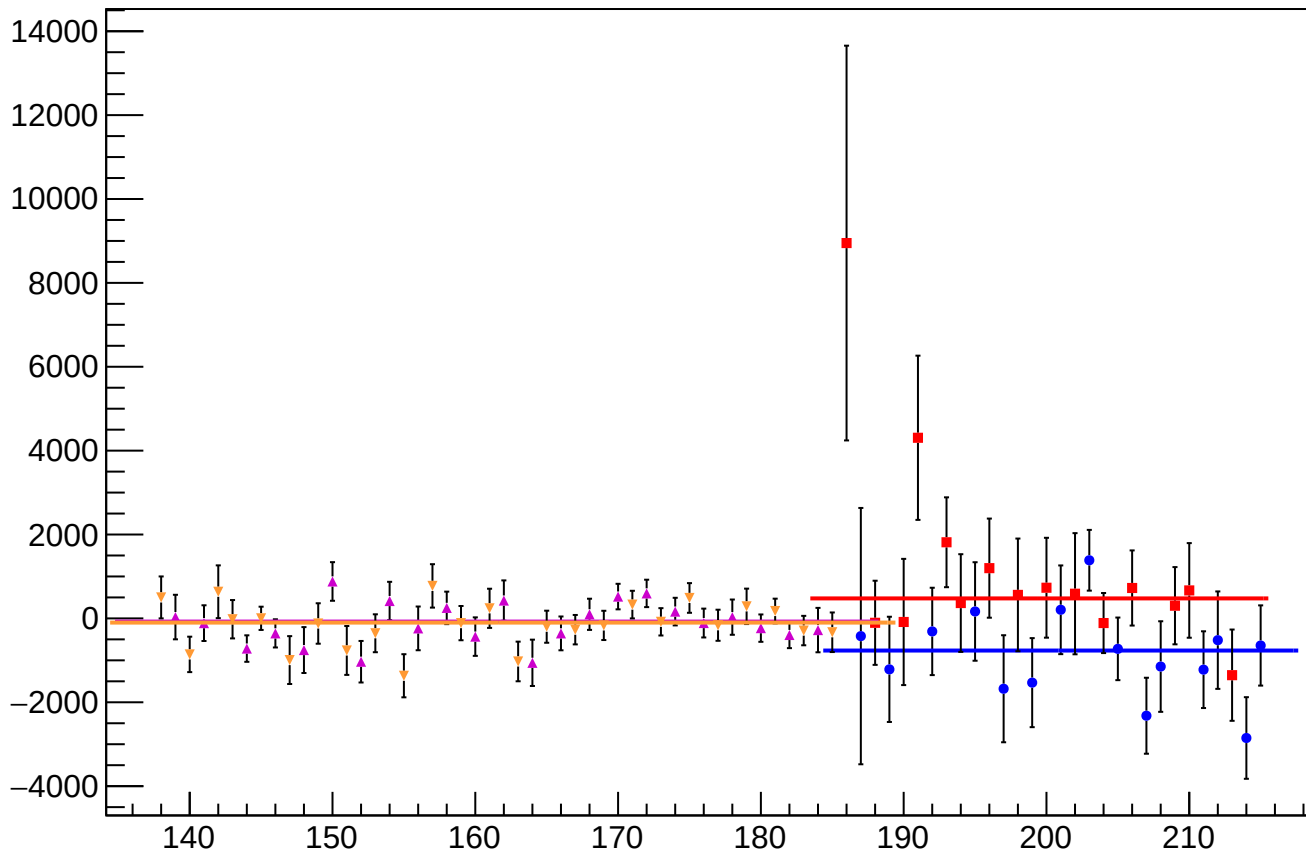
Right: 861.633+/-0.137 χ^2/NDF : 1650579.1/29

In: 376.264+/-0.055 χ^2/NDF : 8704220.1/37

Out: 371.270+/-0.054 χ^2/NDF : 9783731.1/39

All: 373.735+/-0.039 χ^2/NDF : 18492156.9/77

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -766.361+/-261.274 χ^2/NDF : 19.6/14

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 476.621+/-290.964 χ^2/NDF : 13.2/14

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

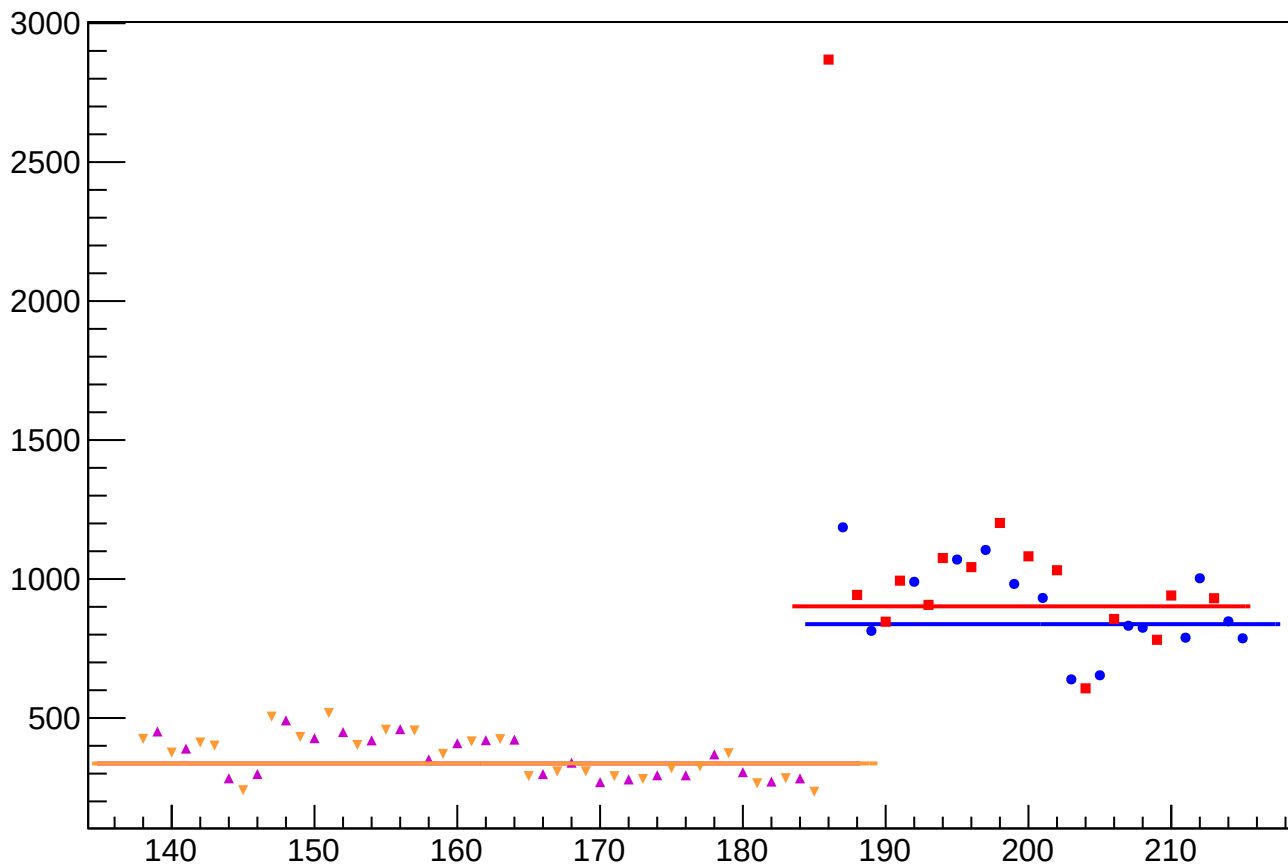
Right: -211.503+/-194.401 χ^2/NDF : 42.9/29

In: -137.959+/-78.514 χ^2/NDF : 58.1/37

Out: -58.870+/-77.521 χ^2/NDF : 47.5/39

All: -97.911+/-55.163 χ^2/NDF : 106.1/77

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 837.675 $\pm$ 0.185 χ^2 /NDF: 612748.7/14

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24

Right Out: 901.738 $\pm$ 0.206 χ^2 /NDF: 977185.8/14

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

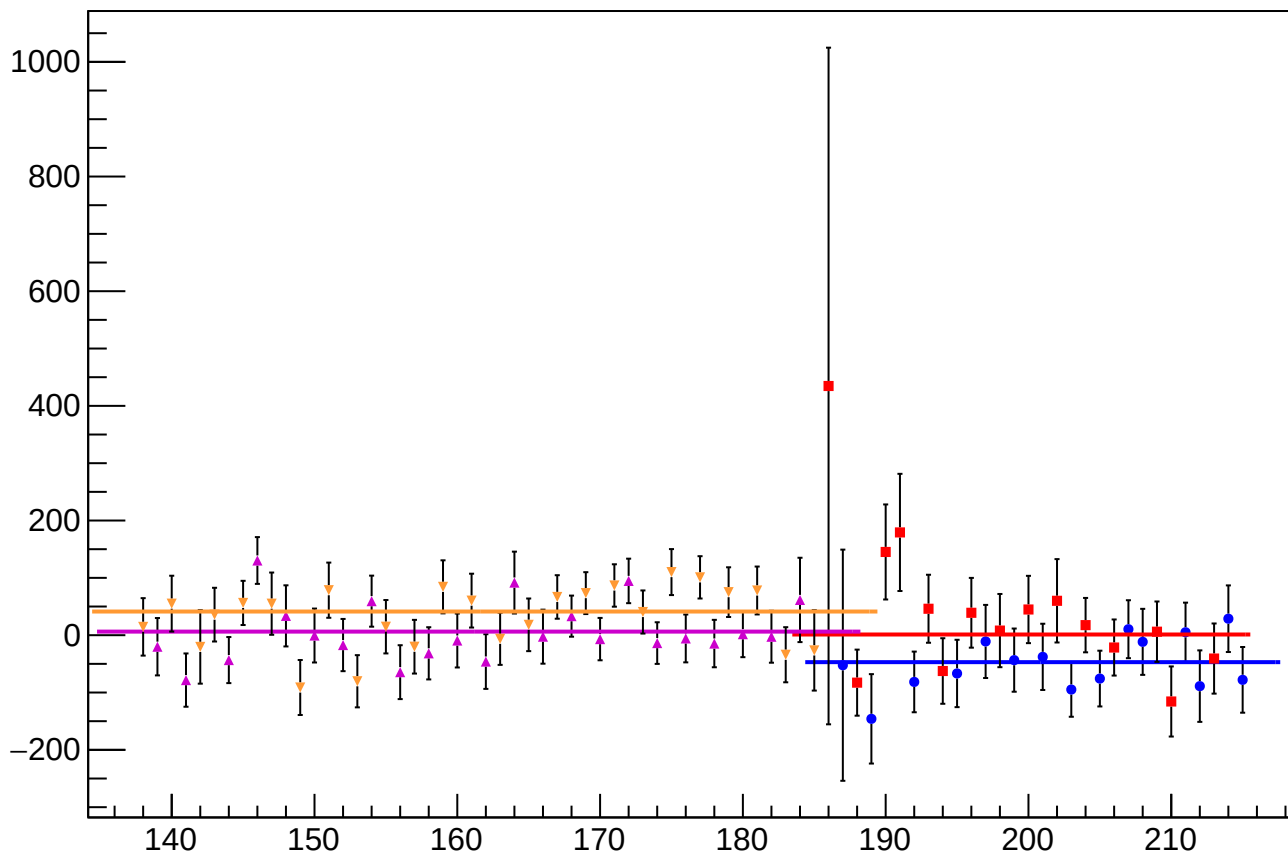
Right: 866.273 $\pm$ 0.137 χ^2 /NDF: 1643608.6/29

In: 381.702 $\pm$ 0.056 χ^2 /NDF:8577858.6/37

Out: 376.676 $\pm$ 0.055 χ^2 /NDF:9653613.3/39

All: 379.157 $\pm$ 0.039 χ^2 /NDF: 18235622.3/77

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -47.024 ± 14.900 $\chi^2/\text{NDF}: 9.0/14$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 1.202 ± 16.038 $\chi^2/\text{NDF}: 16.6/14$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

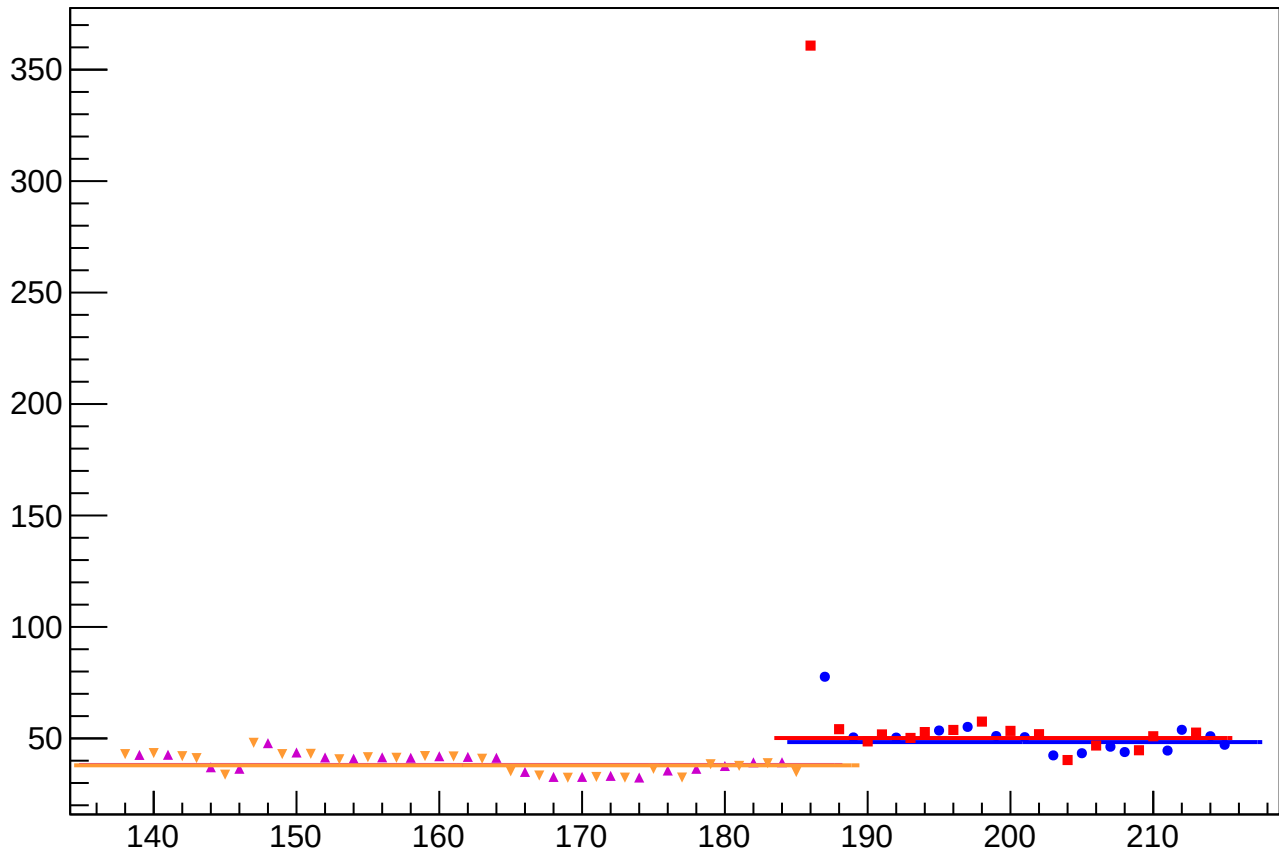
Right: -24.682 ± 10.916 $\chi^2/\text{NDF}: 30.4/29$

In: -8.392 ± 7.812 $\chi^2/\text{NDF}: 48.5/37$

Out: 31.864 ± 7.775 $\chi^2/\text{NDF}: 55.7/39$

All: 11.833 ± 5.511 $\chi^2/\text{NDF}: 117.6/77$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.347 $\pm$ 0.011 χ^2 /NDF: 192405.7/14

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 50.166 $\pm$ 0.011 χ^2 /NDF: 731214.1/14

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

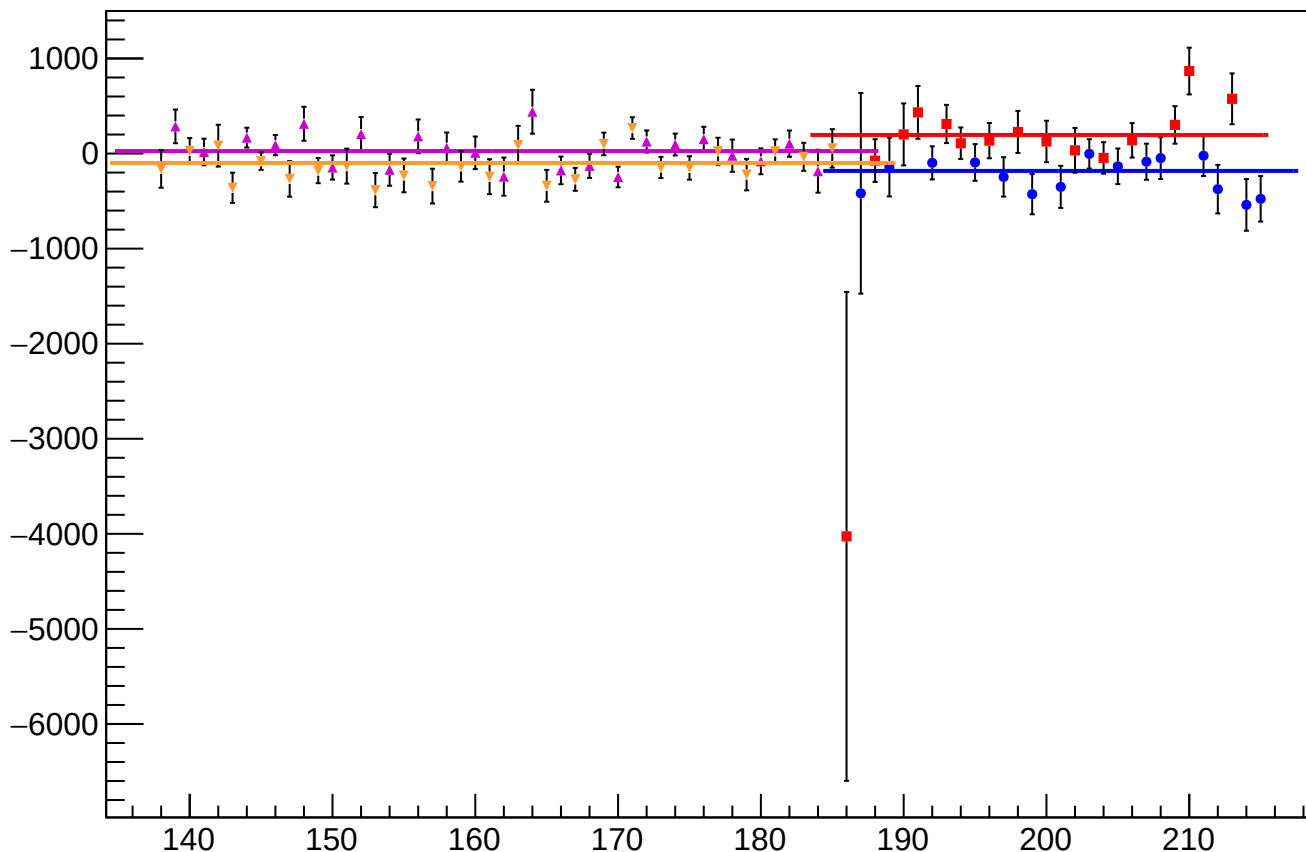
Right: 49.190 $\pm$ 0.008 χ^2 /NDF: 937426.1/29

In: 40.908 $\pm$ 0.006 χ^2 /NDF: 1276330.7/37

Out: 40.802 $\pm$ 0.005 χ^2 /NDF: 2109593.3/39

All: 40.855 $\pm$ 0.004 χ^2 /NDF: 3386109.0/77

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -182.619 ± 55.504 $\chi^2/\text{NDF}: 8.9/14$

Left Out: -98.741 ± 29.095 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 195.641 ± 56.318 $\chi^2/\text{NDF}: 18.2/14$

Left In: 26.223 ± 29.676 $\chi^2/\text{NDF}: 30.7/22$

Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

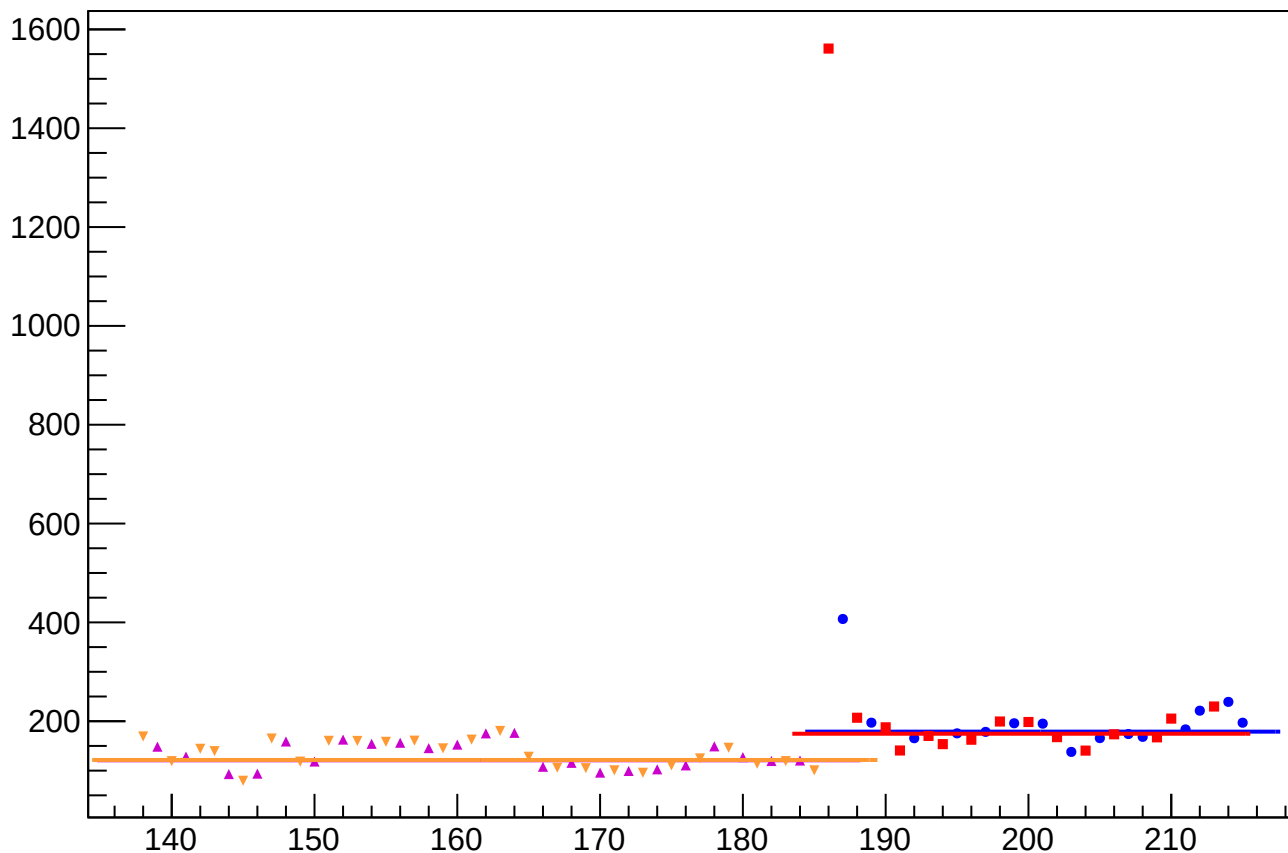
Right: 3.759 ± 39.532 $\chi^2/\text{NDF}: 50.0/29$

In: -20.204 ± 26.170 $\chi^2/\text{NDF}: 50.6/37$

Out: -36.723 ± 25.849 $\chi^2/\text{NDF}: 72.5/39$

All: -28.565 ± 18.391 $\chi^2/\text{NDF}: 123.3/77$

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 178.897+/-0.039 χ^2/NDF : 458672.0/14

Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24

Right Out: 174.671+/-0.040 χ^2/NDF : 952237.4/14

Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

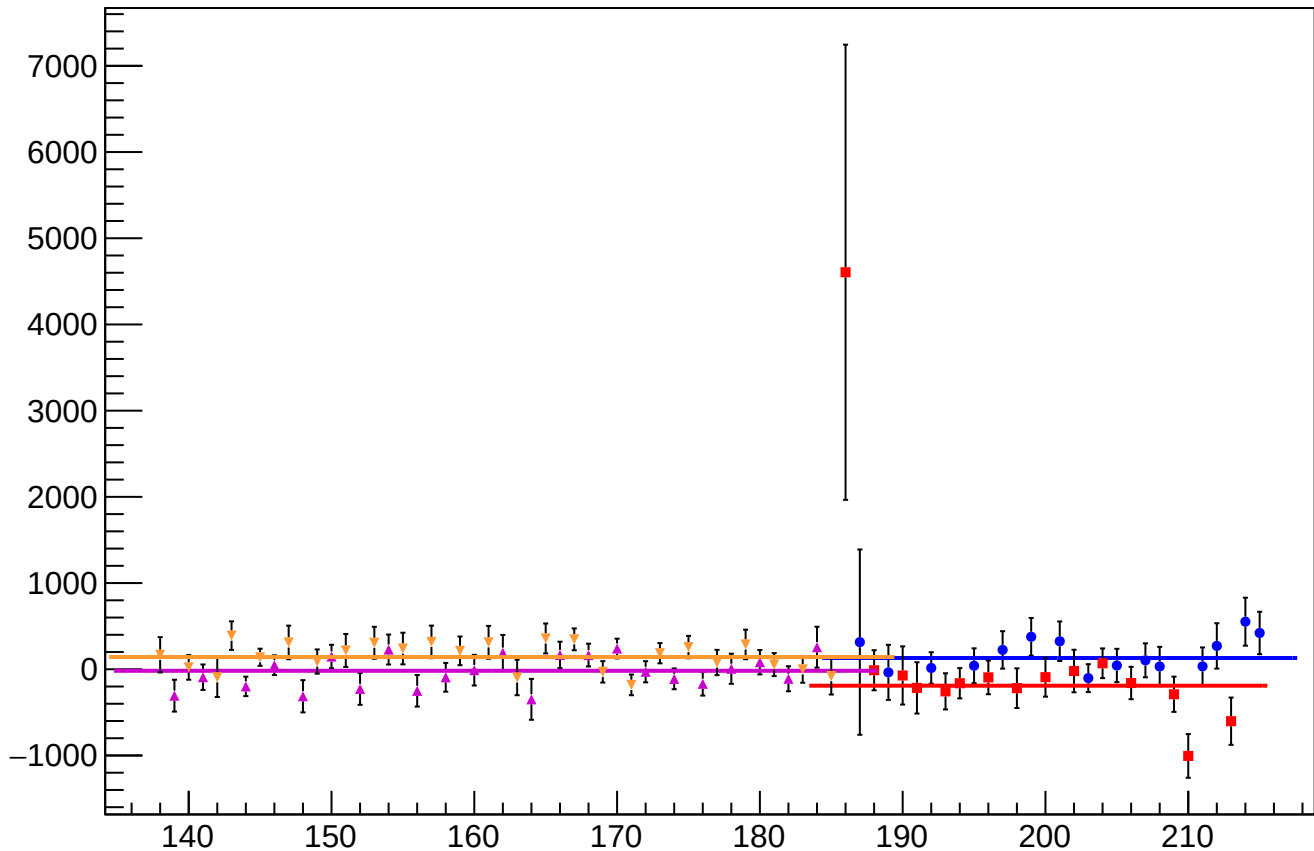
Right: 176.815+/-0.028 χ^2/NDF : 1416622.8/29

In: 133.814+/-0.019 χ^2/NDF : 3538195.6/37

Out: 132.774+/-0.018 χ^2/NDF : 4065949.3/39

All: 133.288+/-0.013 χ^2/NDF : 7605743.1/77

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 130.999 ± 57.626 χ^2/NDF : 9.7/14

Left Out: 142.014 ± 30.574 χ^2/NDF : 26.9/24

Right Out: -190.504 ± 58.761 χ^2/NDF : 20.2/14

Left In: -17.679 ± 31.209 χ^2/NDF : 30.1/22

Left: 63.807 ± 21.840 χ^2/NDF : 70.4/47

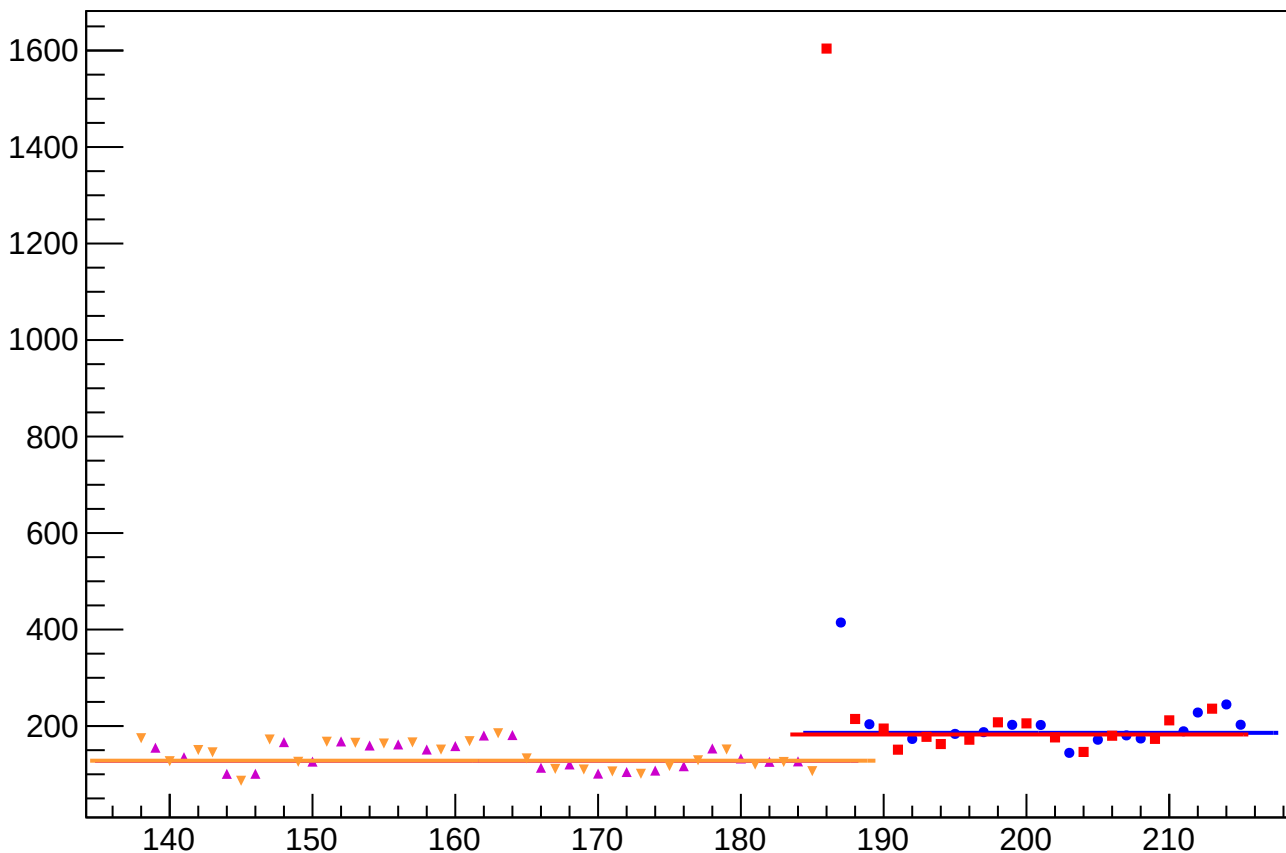
Right: -26.617 ± 41.143 χ^2/NDF : 45.2/29

In: 16.039 ± 27.443 χ^2/NDF : 45.0/37

Out: 71.172 ± 27.123 χ^2/NDF : 72.3/39

All: 43.928 ± 19.291 χ^2/NDF : 119.3/77

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 185.919 $\pm$ 0.041 χ^2/NDF : 428298.4/14

Left Out: 128.175 $\pm$ 0.022 χ^2/NDF : 1532922.0/24

Right Out: 182.510 $\pm$ 0.042 χ^2/NDF : 916876.2/14

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

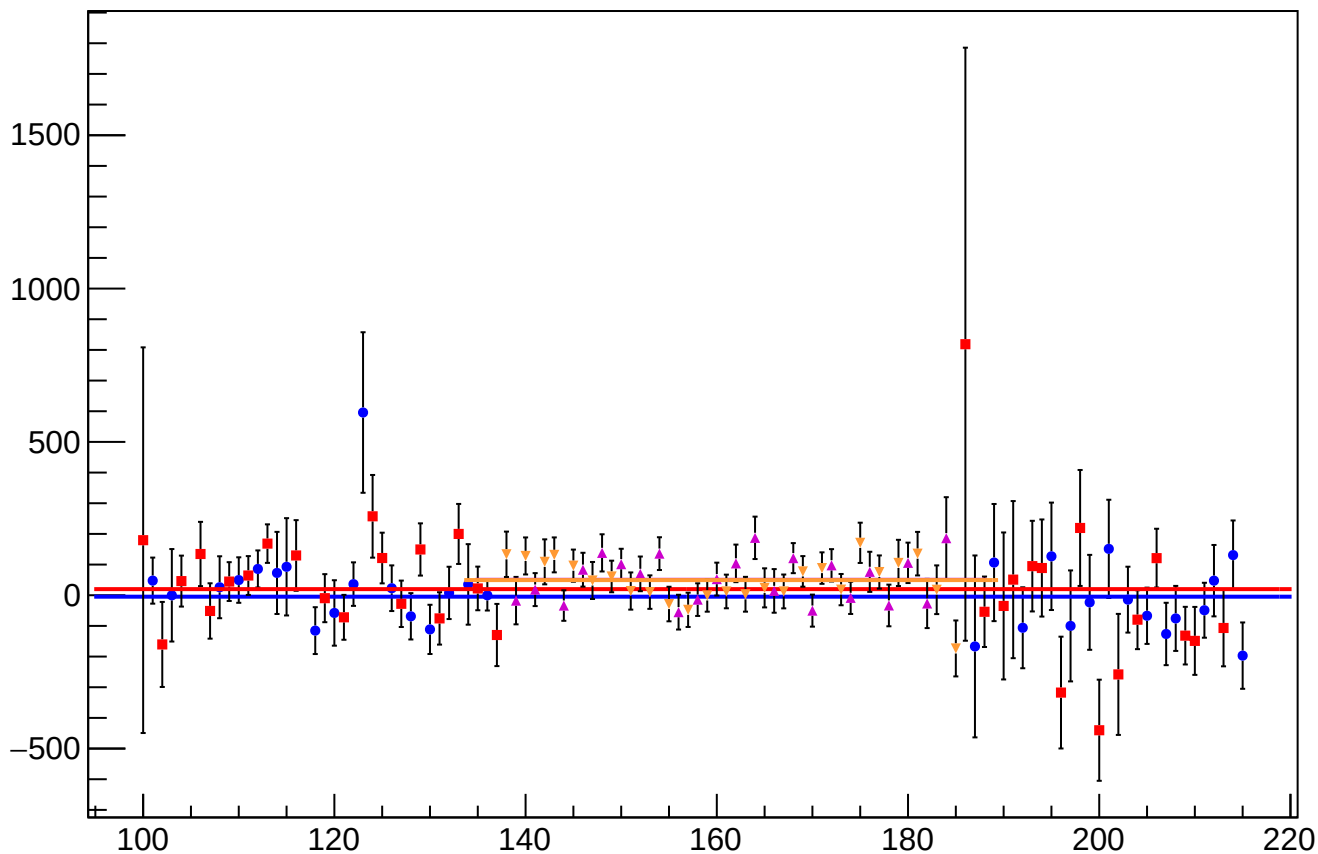
Right: 184.248 $\pm$ 0.029 χ^2/NDF : 1348604.5/29

In: 140.782 $\pm$ 0.019 χ^2/NDF : 3250908.1/37

Out: 139.751 $\pm$ 0.019 χ^2/NDF : 3795539.0/39

All: 140.261 $\pm$ 0.014 χ^2/NDF : 7047875.5/77

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -4.719 ± 17.031 $\chi^2/\text{NDF}: 25.2/31$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 19.947 ± 17.068 $\chi^2/\text{NDF}: 50.7/33$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

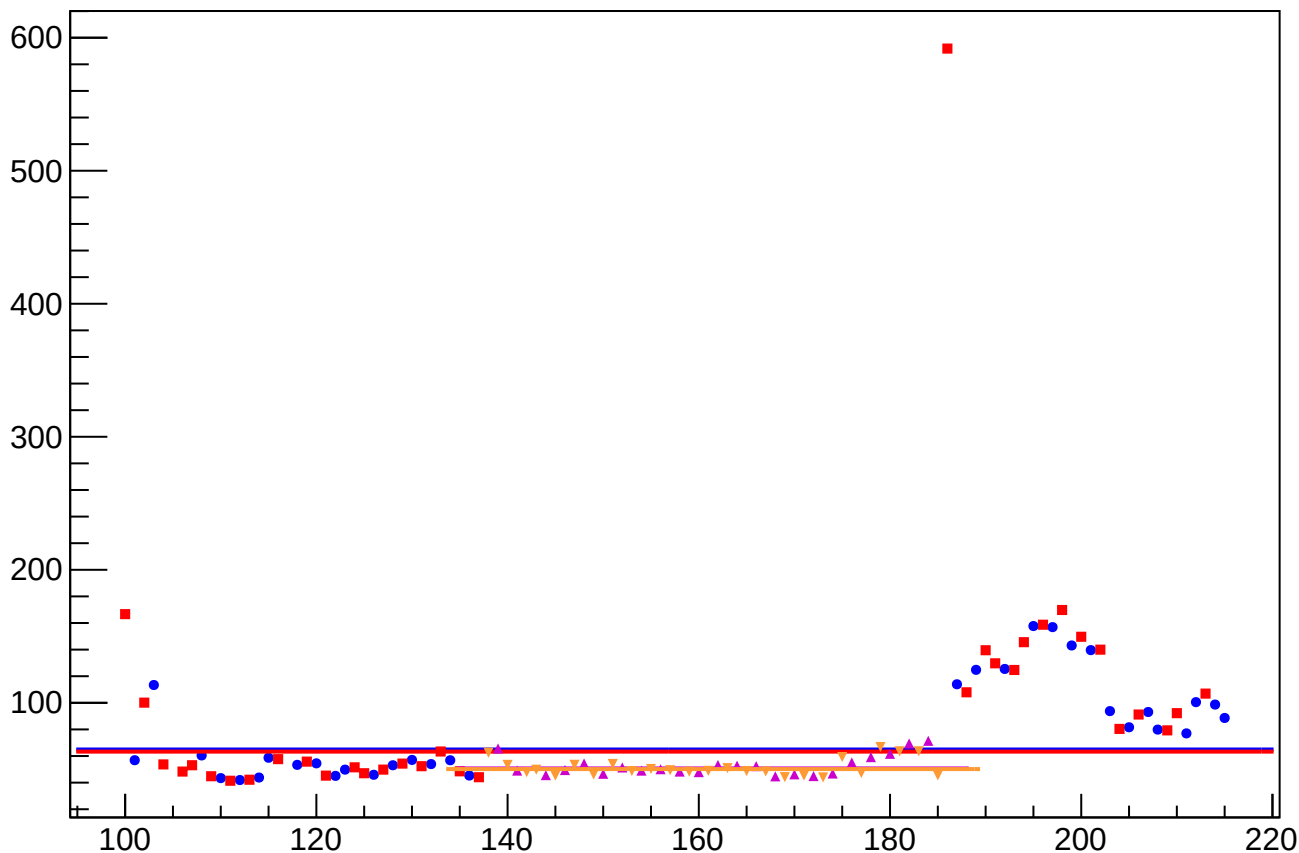
Right: 7.587 ± 12.056 $\chi^2/\text{NDF}: 76.9/65$

In: 31.554 ± 9.946 $\chi^2/\text{NDF}: 64.2/54$

Out: 39.870 ± 9.709 $\chi^2/\text{NDF}: 80.8/58$

All: 35.812 ± 6.948 $\chi^2/\text{NDF}: 145.4/113$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 64.914+/-0.012 χ^2/NDF : 5119465.0/31

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 63.311+/-0.012 χ^2/NDF : 6263098.9/33

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

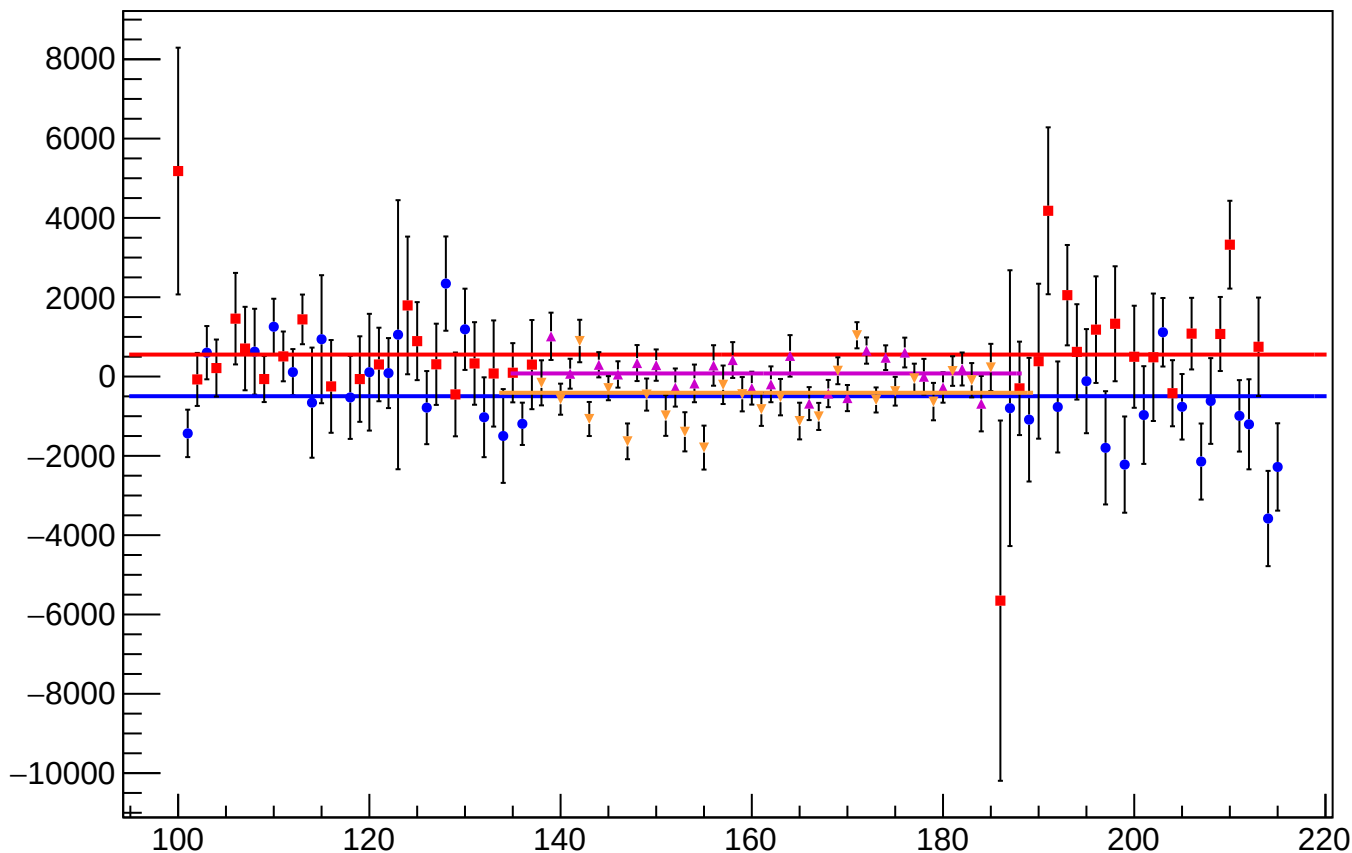
Right: 64.114+/-0.009 χ^2/NDF : 11391396.8/65

In: 55.537+/-0.007 χ^2/NDF : 6508840.1/54

Out: 54.436+/-0.007 χ^2/NDF : 7530327.4/58

All: 54.973+/-0.005 χ^2/NDF : 14051725.8/113

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -496.035 ± 170.338 $\chi^2/\text{NDF}: 46.0/31$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 553.804 ± 171.777 $\chi^2/\text{NDF}: 25.7/33$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

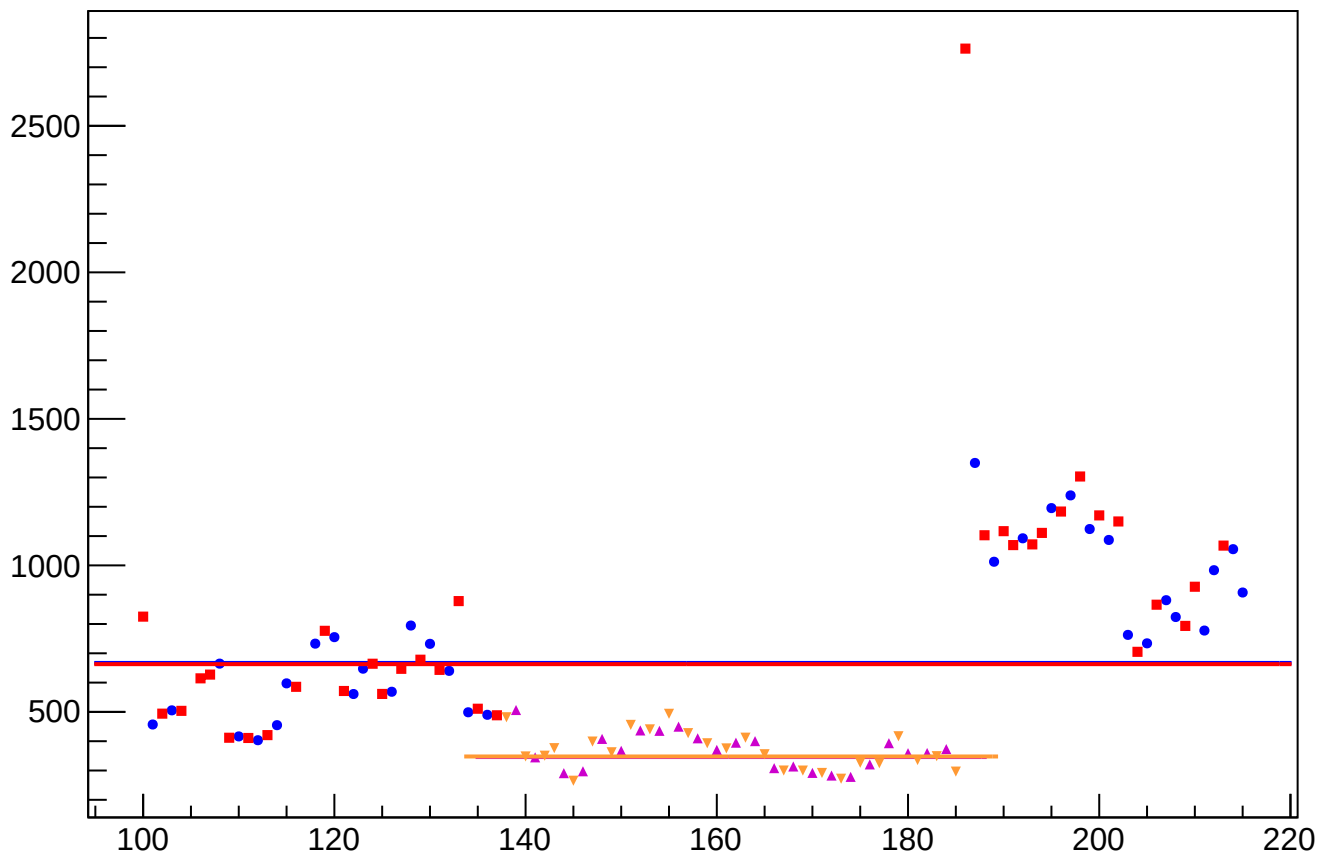
Right: 24.471 ± 120.953 $\chi^2/\text{NDF}: 90.6/65$

In: -34.548 ± 75.390 $\chi^2/\text{NDF}: 80.0/54$

Out: -229.214 ± 74.257 $\chi^2/\text{NDF}: 113.0/58$

All: -133.355 ± 52.903 $\chi^2/\text{NDF}: 196.4/113$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 667.097 $\pm$ 0.120 χ^2 /NDF: 3716048.8/31

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF: 1044096.7/24

Right Out: 662.940 $\pm$ 0.121 χ^2 /NDF: 4521172.6/33

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF: 900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

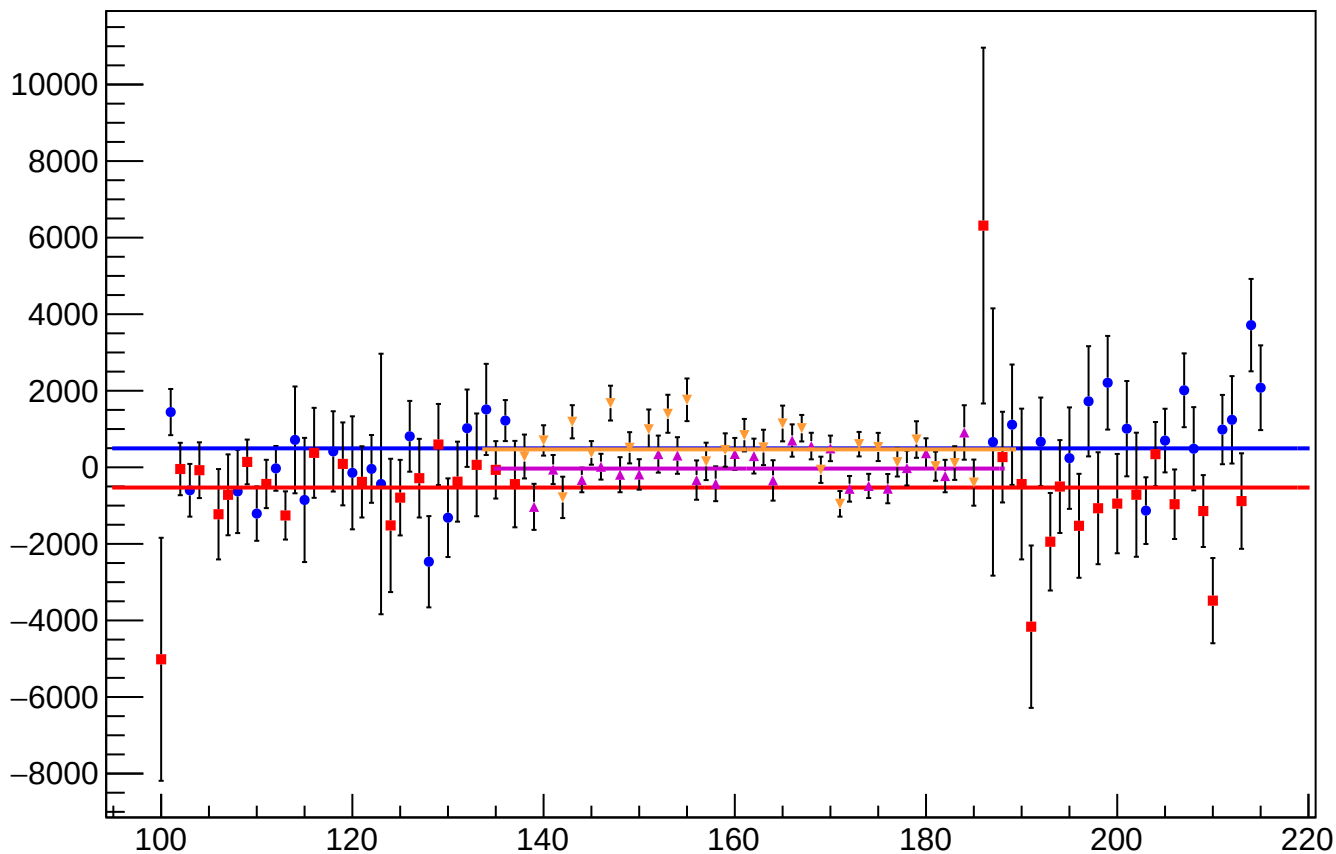
Right: 665.036 $\pm$ 0.086 χ^2 /NDF: 8237812.0/65

In: 408.861 $\pm$ 0.053 χ^2 /NDF: 10333276.5/54

Out: 406.751 $\pm$ 0.053 χ^2 /NDF: 11036185.0/58

All: 407.790 $\pm$ 0.037 χ^2 /NDF: 21370256.4/112

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 495.363+/-171.514 χ^2/NDF : 45.2/31

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -528.061+/-173.067 χ^2/NDF : 25.5/33

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

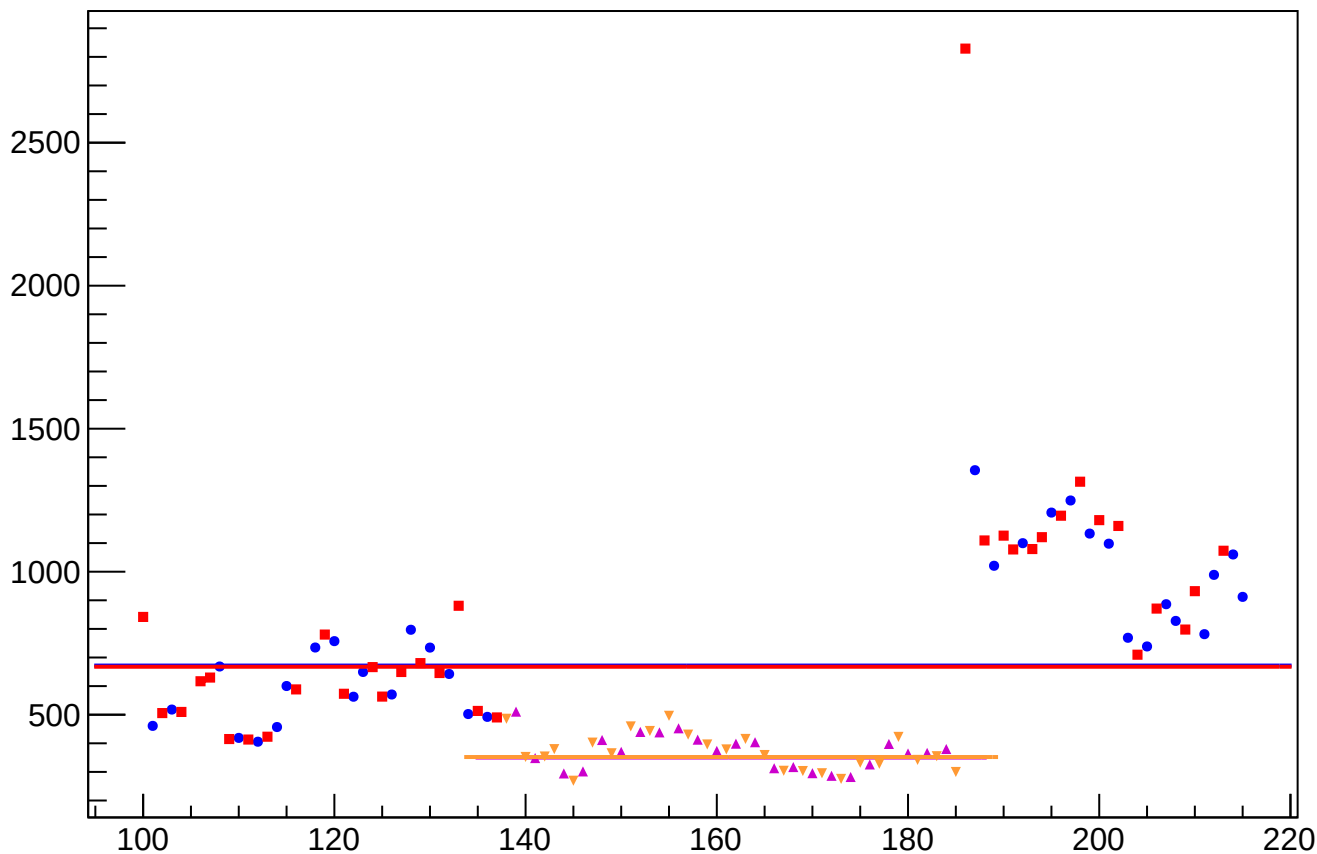
Right: -11.737+/-121.824 χ^2/NDF : 88.3/65

In: 71.466+/-76.206 χ^2/NDF : 78.5/54

Out: 281.367+/-75.055 χ^2/NDF : 110.0/58

All: 178.014+/-53.474 χ^2/NDF : 192.3/113

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 671.816+/-0.121 χ^2/NDF : 3706218.5/31

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 667.723+/-0.122 χ^2/NDF : 4519176.8/33

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

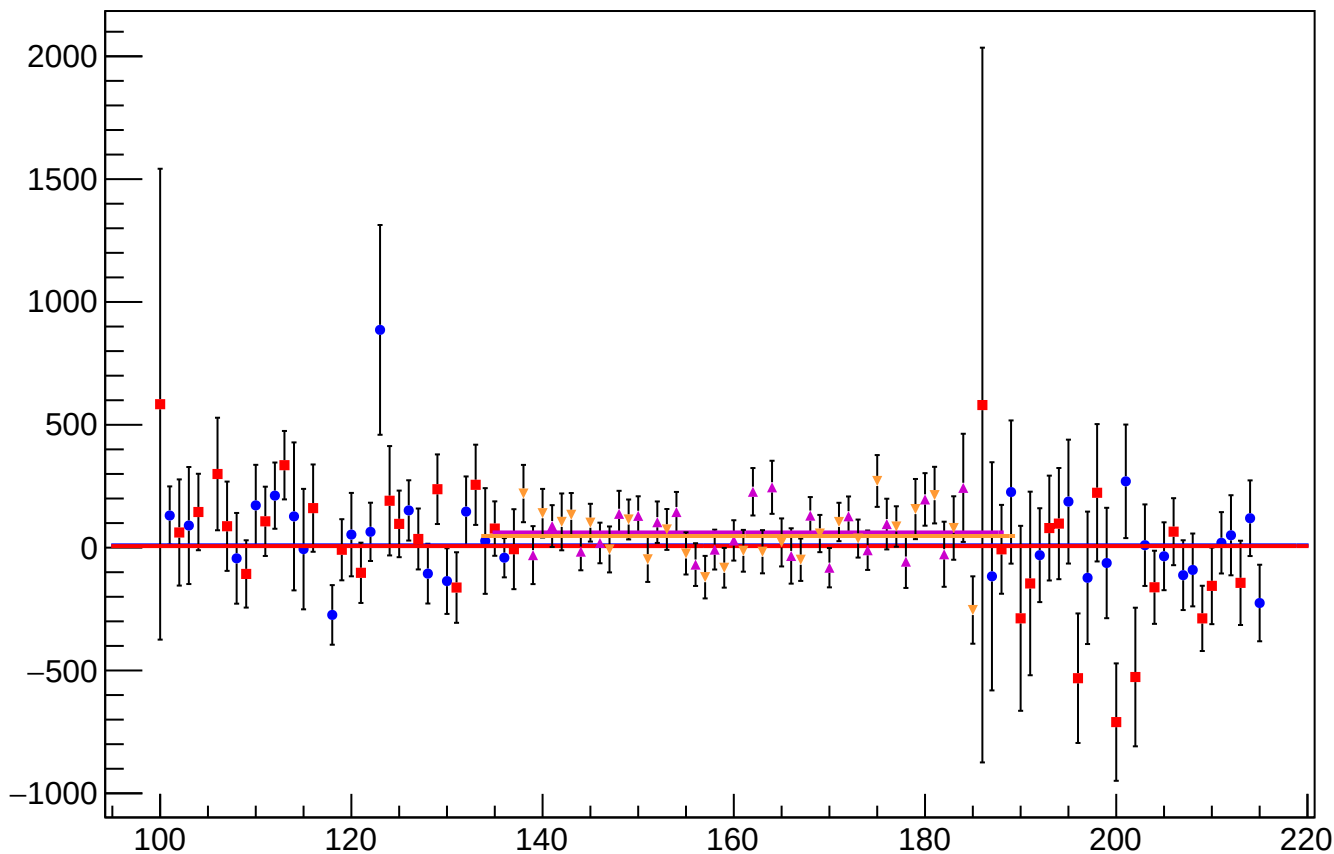
Right: 669.788+/-0.086 χ^2/NDF : 8225959.5/65

In: 413.660+/-0.054 χ^2/NDF : 10230134.6/54

Out: 411.392+/-0.053 χ^2/NDF : 10940083.9/58

All: 412.508+/-0.038 χ^2/NDF : 21171117.9/112

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 9.386 ± 27.585 χ^2/NDF : 26.3/31

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: 6.265 ± 28.861 χ^2/NDF : 46.1/33

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

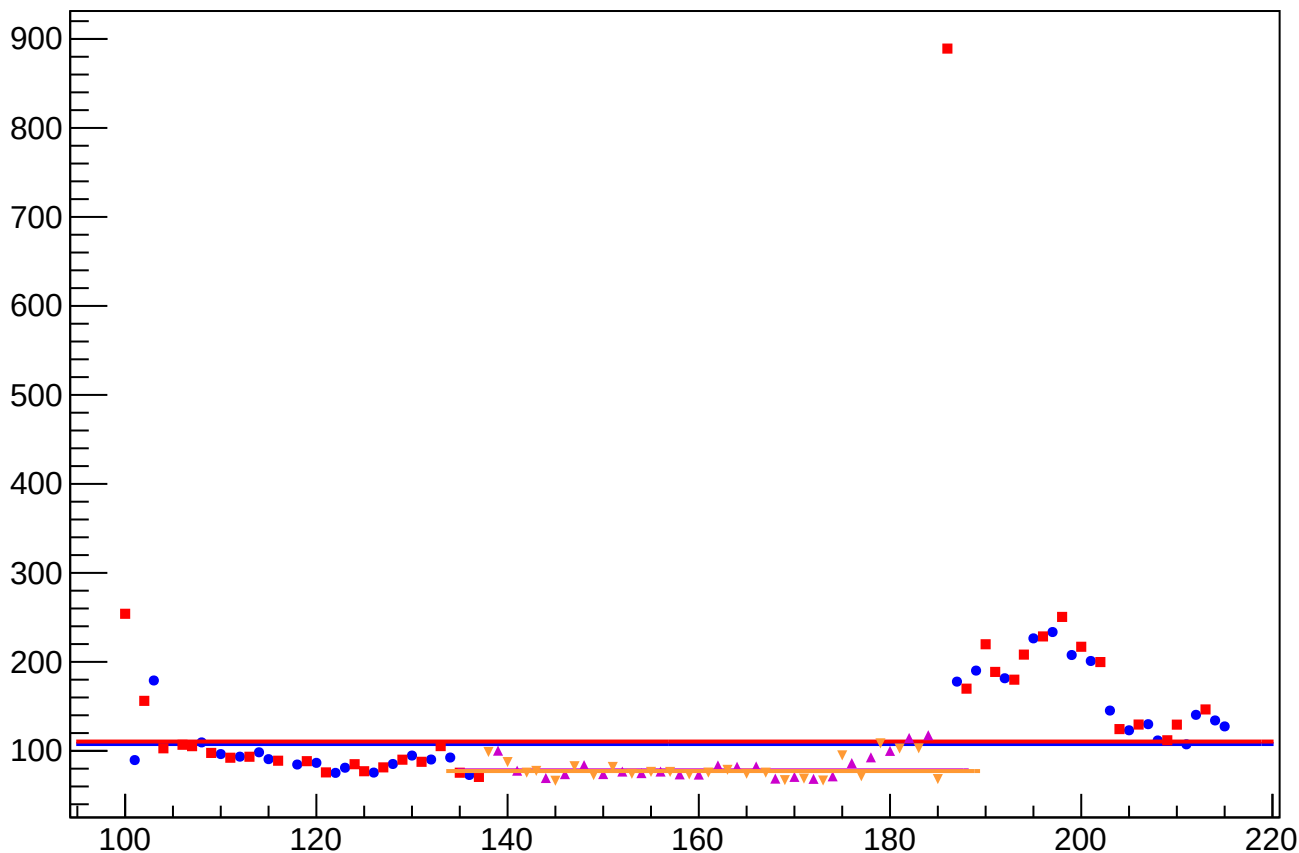
Right: 7.896 ± 19.941 χ^2/NDF : 72.4/65

In: 45.006 ± 15.624 χ^2/NDF : 52.7/54

Out: 35.666 ± 15.427 χ^2/NDF : 77.0/58

All: 40.277 ± 10.977 χ^2/NDF : 129.8/113

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.668 $\pm$ 0.020 χ^2 /NDF: 3629240.6/31

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 110.479 $\pm$ 0.020 χ^2 /NDF: 4451234.0/33

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF: 582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

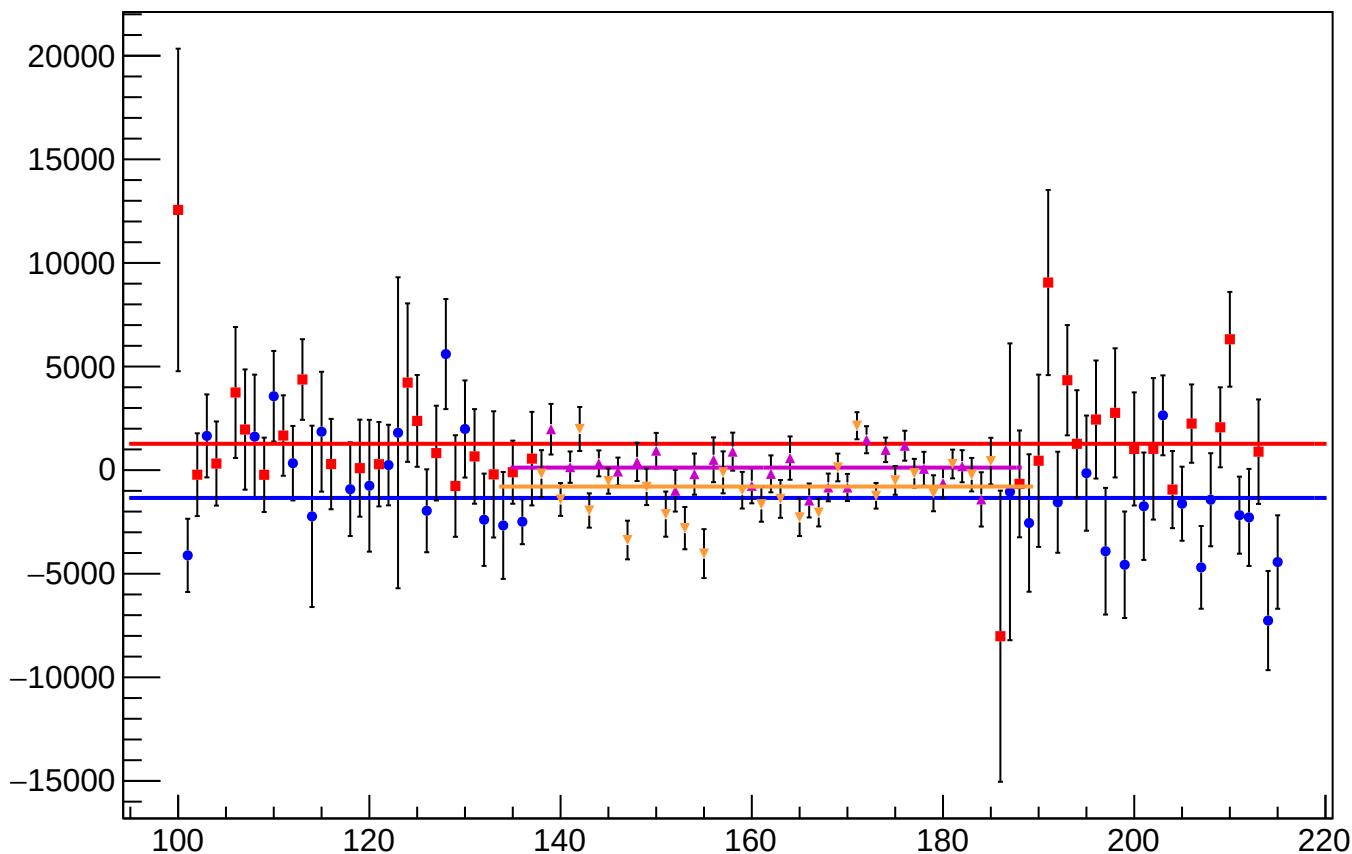
Right: 109.010 $\pm$ 0.014 χ^2 /NDF: 8090388.3/65

In: 87.612 $\pm$ 0.011 χ^2 /NDF: 5768050.2/54

Out: 86.791 $\pm$ 0.011 χ^2 /NDF: 6973051.1/58

All: 87.196 $\pm$ 0.008 χ^2 /NDF: 12743897.2/113

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1341.666 ± 394.896 $\chi^2/\text{NDF}: 42.4/31$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1271.817 ± 409.642 $\chi^2/\text{NDF}: 24.2/33$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

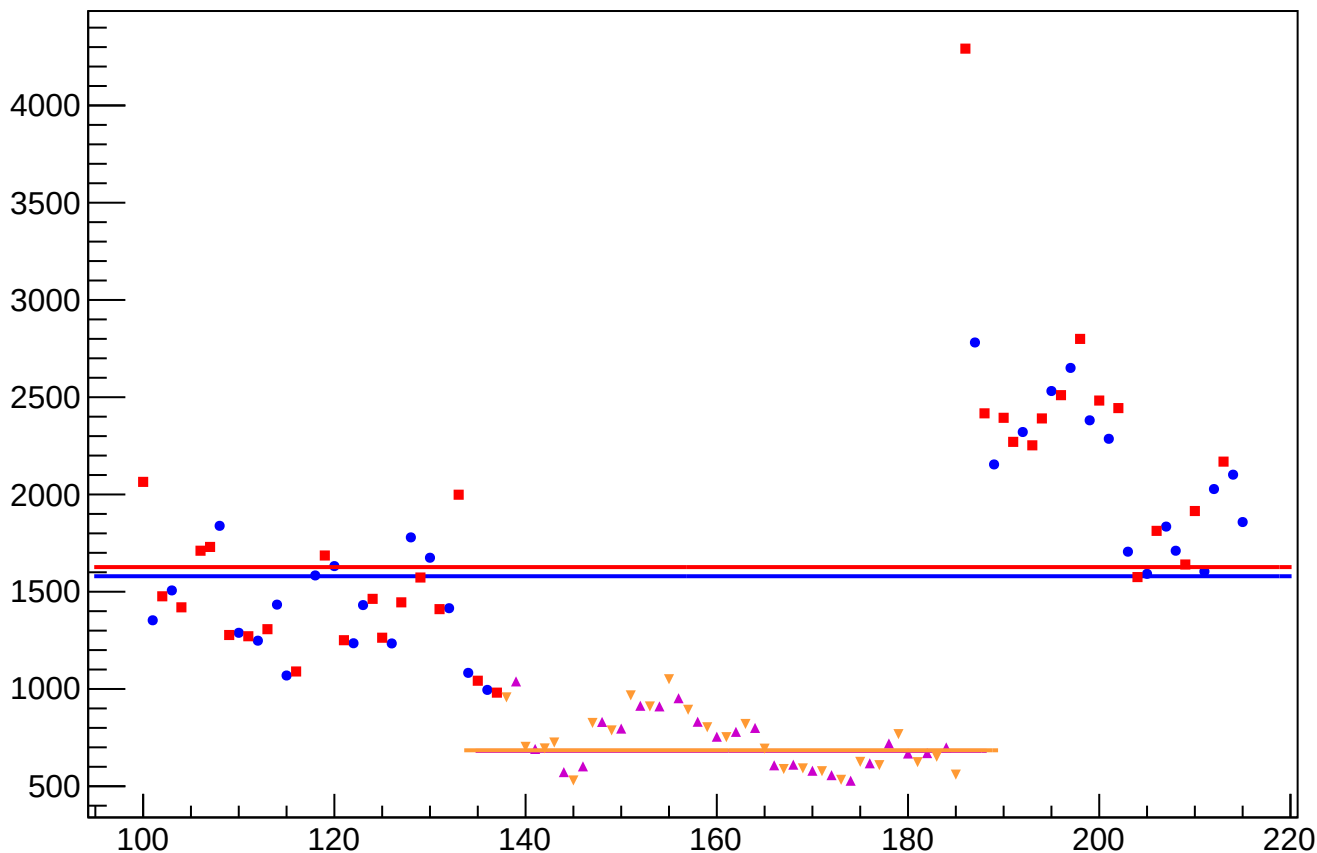
Right: -82.809 ± 284.304 $\chi^2/\text{NDF}: 87.7/65$

In: -98.066 ± 153.181 $\chi^2/\text{NDF}: 80.0/54$

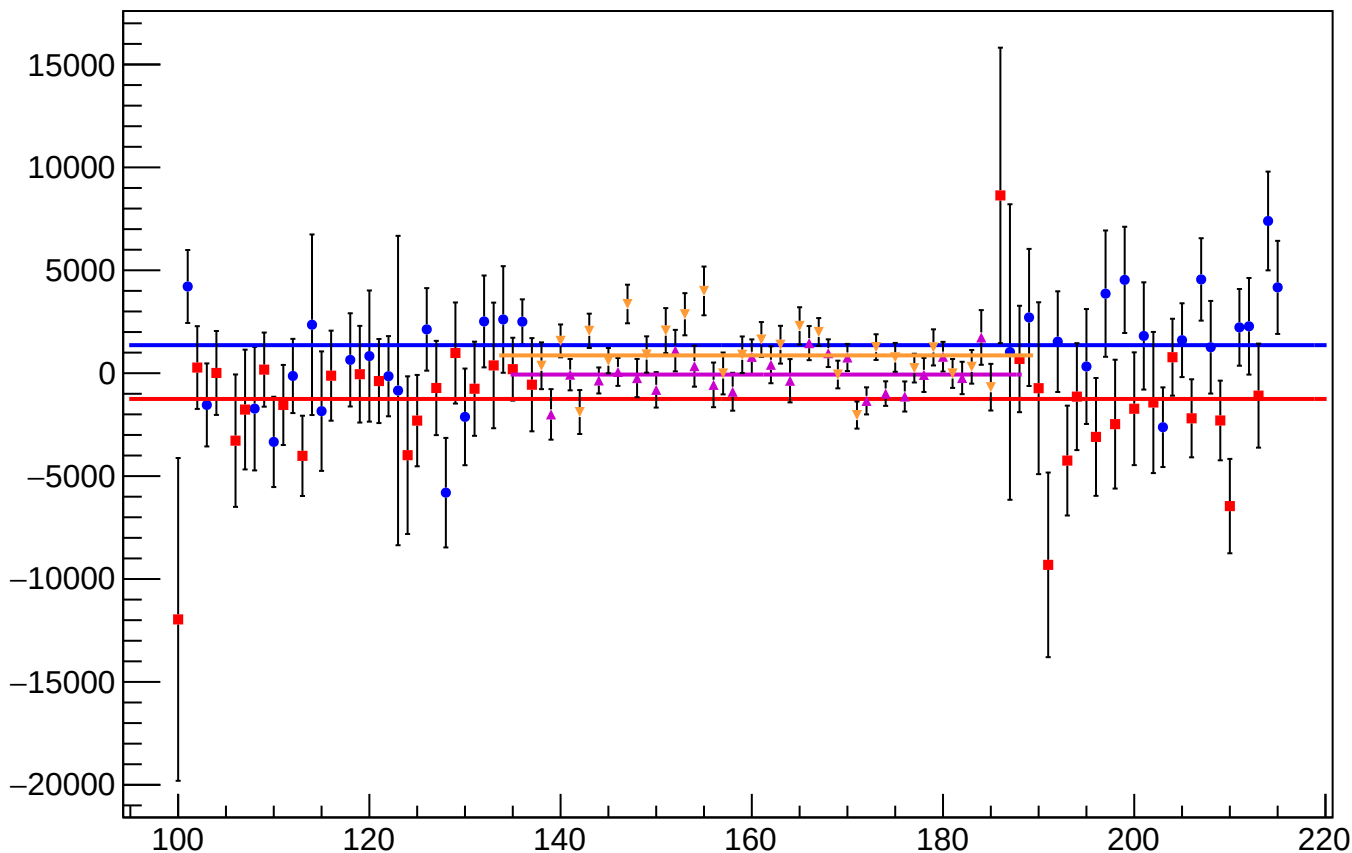
Out: -511.588 ± 151.177 $\chi^2/\text{NDF}: 112.7/58$

All: -307.549 ± 107.600 $\chi^2/\text{NDF}: 196.4/113$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1362.969 $\pm$ 396.072 χ^2 /NDF: 41.8/31

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1250.899 $\pm$ 411.021 χ^2 /NDF: 24.0/33

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

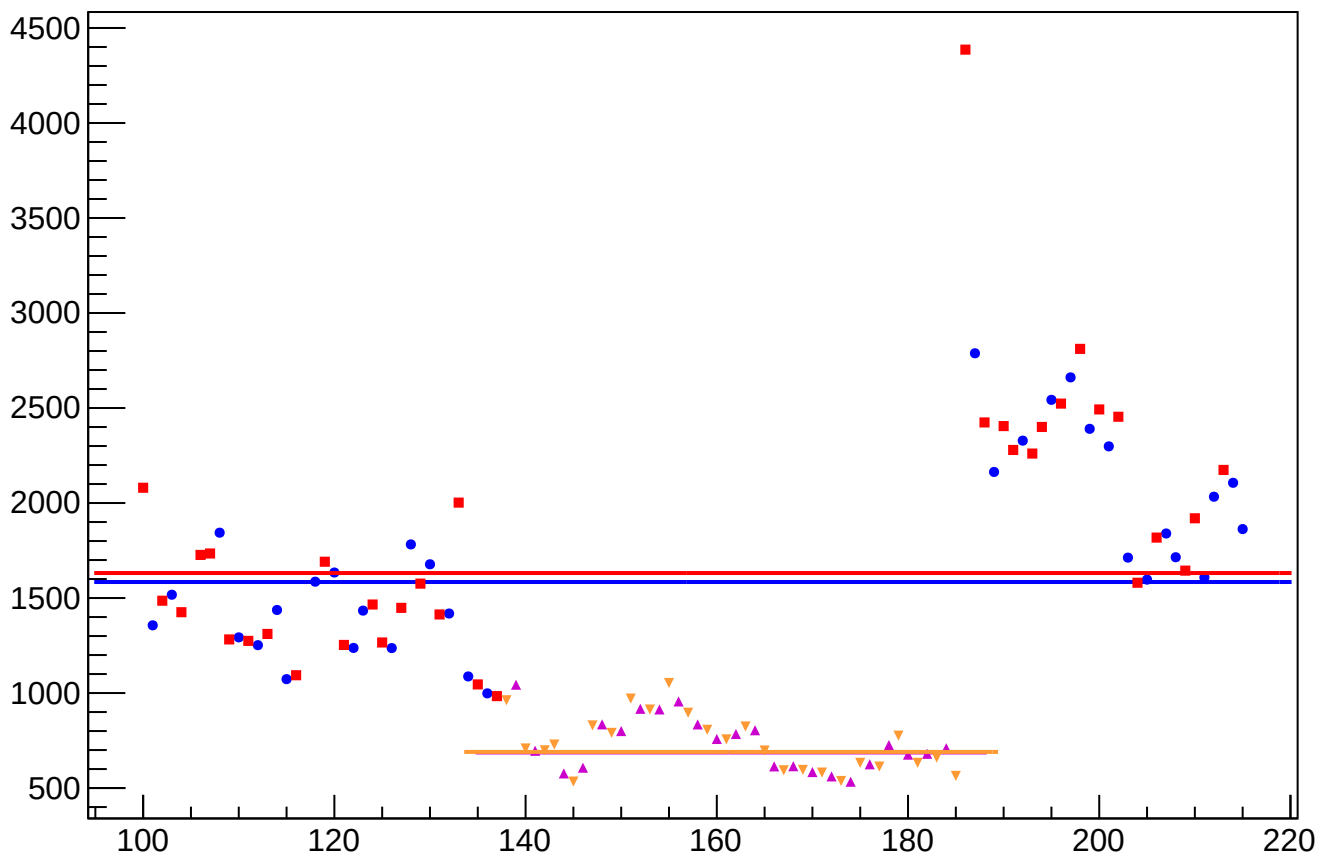
Right: 104.431 $\pm$ 285.204 χ^2 /NDF: 86.8/65

In: 150.824 $\pm$ 154.260 χ^2 /NDF:79.3/54

Out: 575.267 $\pm$ 152.230 χ^2 /NDF:109.7/58

All: 365.855 $\pm$ 108.353 χ^2 /NDF: 192.9/113

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1584.303+/-0.280 χ^2/NDF : 2397873.8/31

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1631.574+/-0.291 χ^2/NDF : 2821250.1/33

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

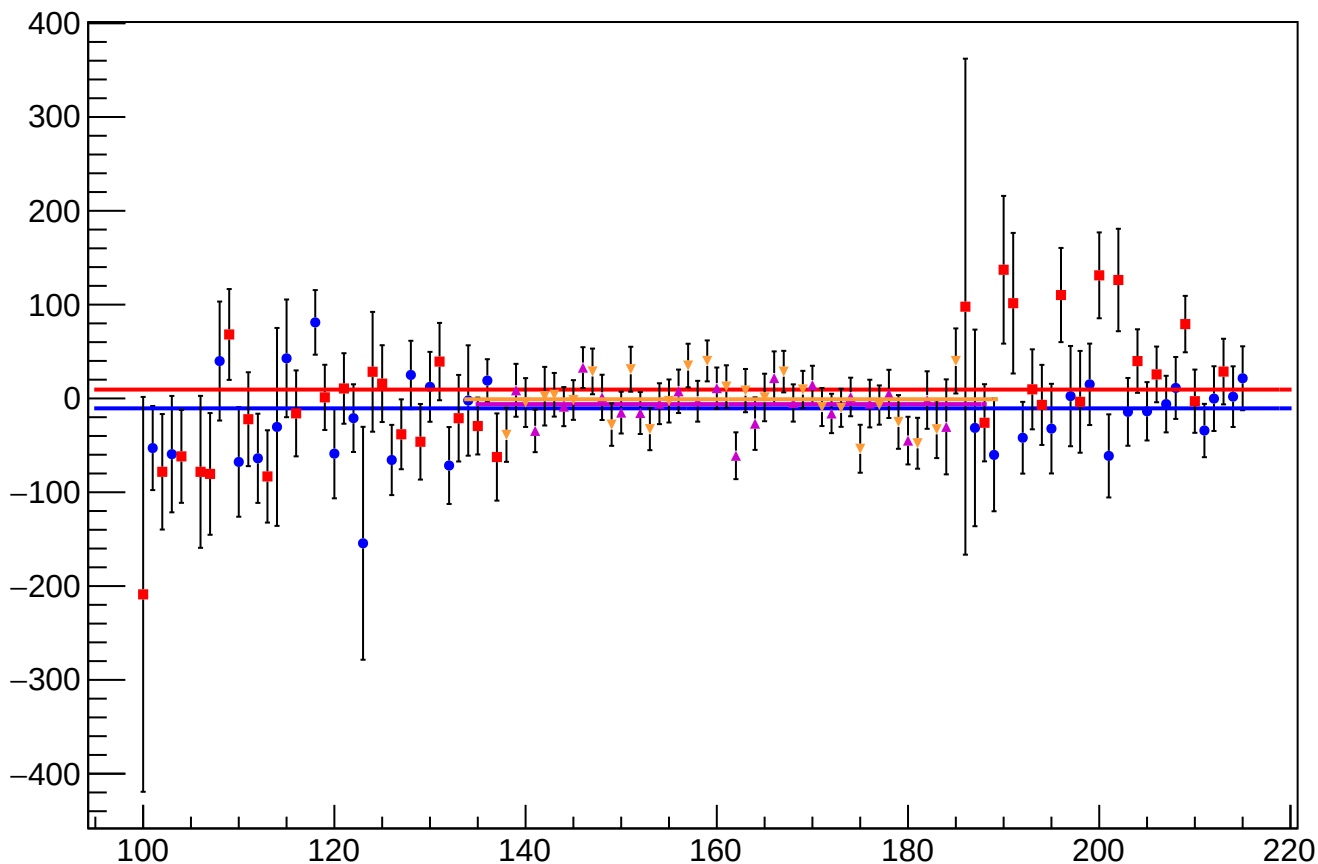
Right: 1607.063+/-0.202 χ^2/NDF : 5232840.3/65

In: 823.295+/-0.109 χ^2/NDF : 12201291.4/54

Out: 819.304+/-0.108 χ^2/NDF : 13132143.6/58

All: 821.273+/-0.077 χ^2/NDF : 25334113.3/11

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -10.565 ± 7.107 $\chi^2/\text{NDF}: 27.7/31$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: 9.450 ± 7.554 $\chi^2/\text{NDF}: 50.5/33$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

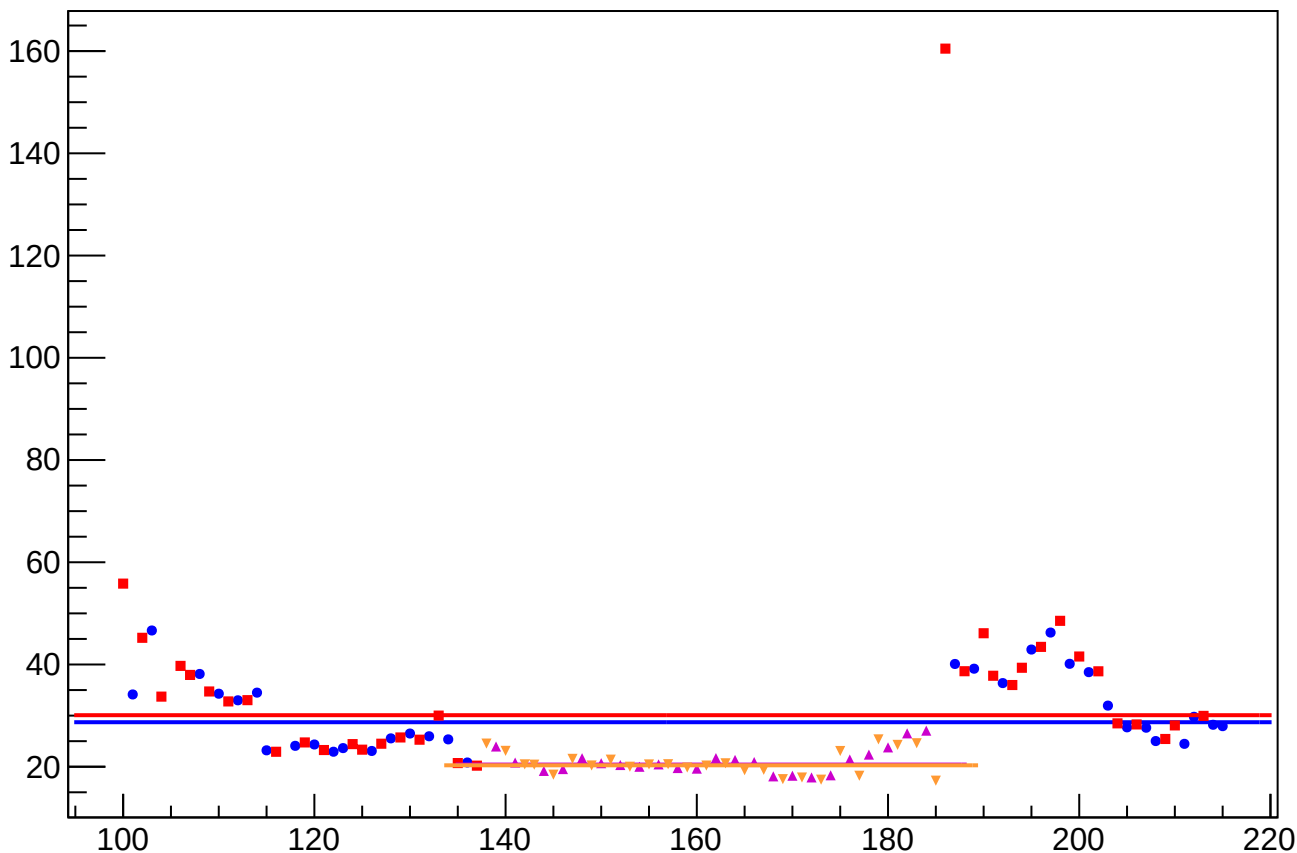
Right: -1.167 ± 5.176 $\chi^2/\text{NDF}: 81.9/65$

In: -7.509 ± 4.048 $\chi^2/\text{NDF}: 44.9/54$

Out: 2.070 ± 4.027 $\chi^2/\text{NDF}: 79.7/58$

All: -2.695 ± 2.855 $\chi^2/\text{NDF}: 127.4/113$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.708+/-0.005 χ^2/NDF : 1613721.0/31

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.083+/-0.005 χ^2/NDF : 2285158.0/33

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

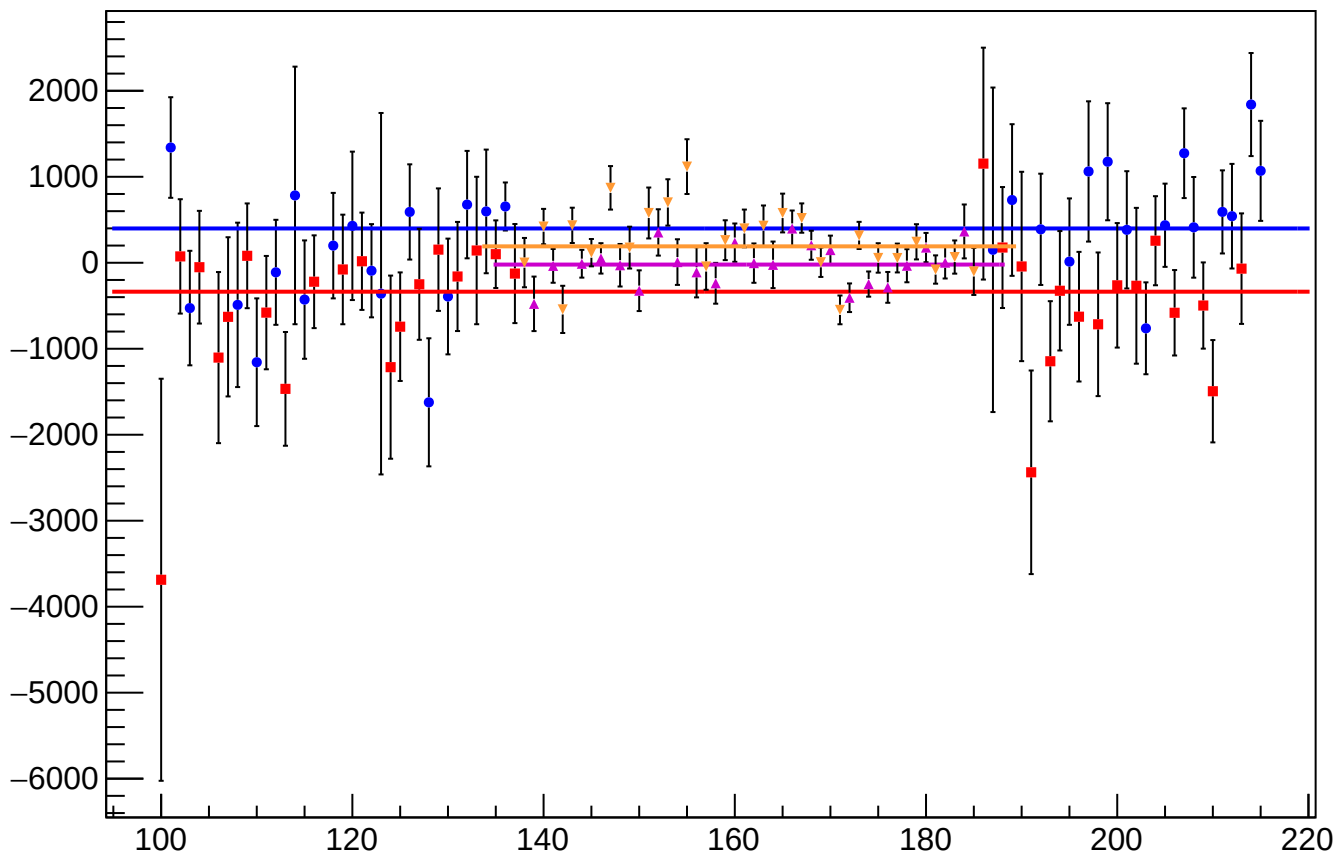
Right: 29.354+/-0.004 χ^2/NDF : 3934010.2/65

In: 23.112+/-0.003 χ^2/NDF : 3773000.0/54

Out: 23.066+/-0.003 χ^2/NDF : 5103336.5/58

All: 23.089+/-0.002 χ^2/NDF : 8876465.2/113

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 398.923 $\pm$ 108.959 χ^2 /NDF: 40.3/31

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -336.483 $\pm$ 114.794 χ^2 /NDF: 23.1/33

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

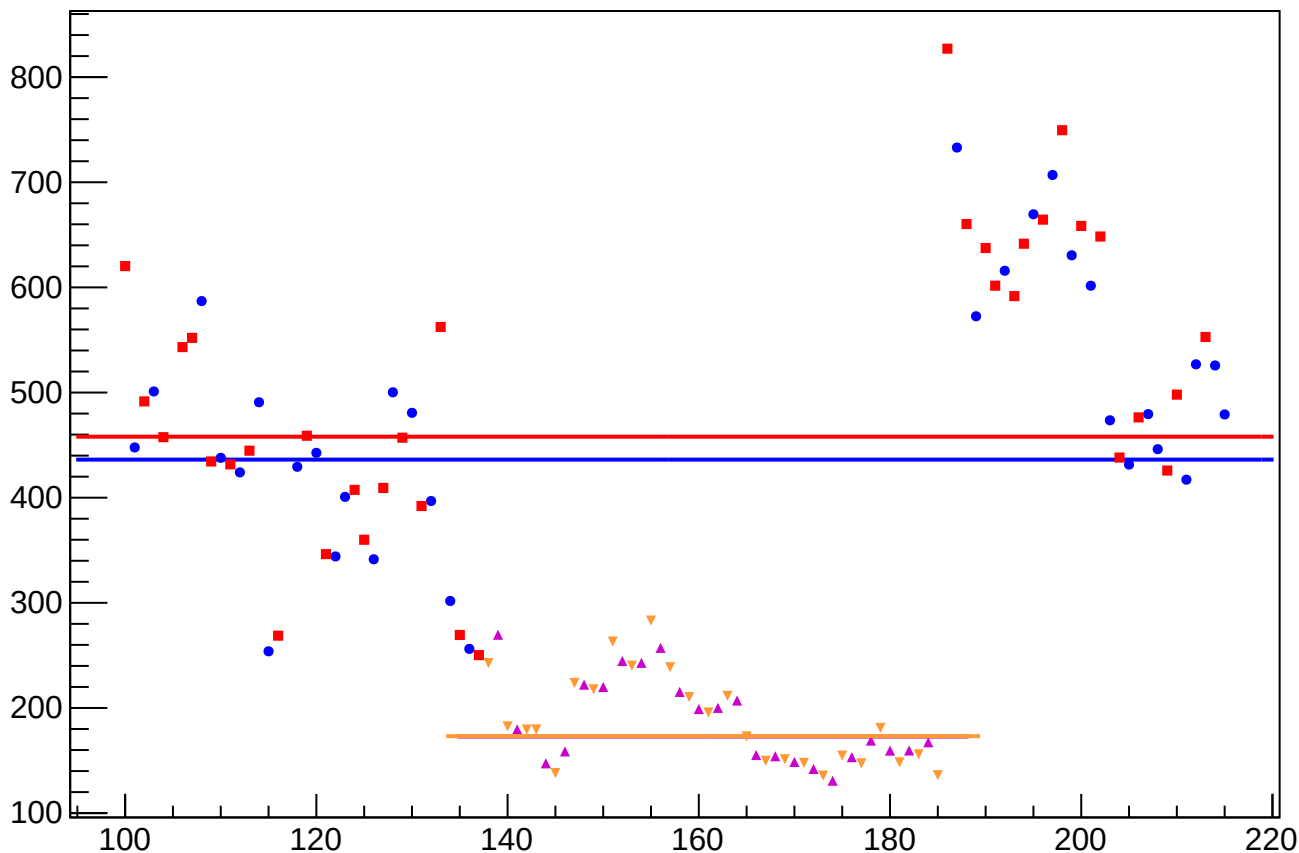
Right: 50.387 $\pm$ 79.028 χ^2 /NDF: 85.0/65

In: 33.980 $\pm$ 39.425 χ^2 /NDF: 80.9/54

Out: 130.395 $\pm$ 38.873 χ^2 /NDF: 109.6/58

All: 82.868 $\pm$ 27.680 χ^2 /NDF: 193.6/113

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 436.217 $\pm$ 0.077 χ^2 /NDF: 2343515.2/31

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 458.012 $\pm$ 0.081 χ^2 /NDF: 2528341.3/33

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF:1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

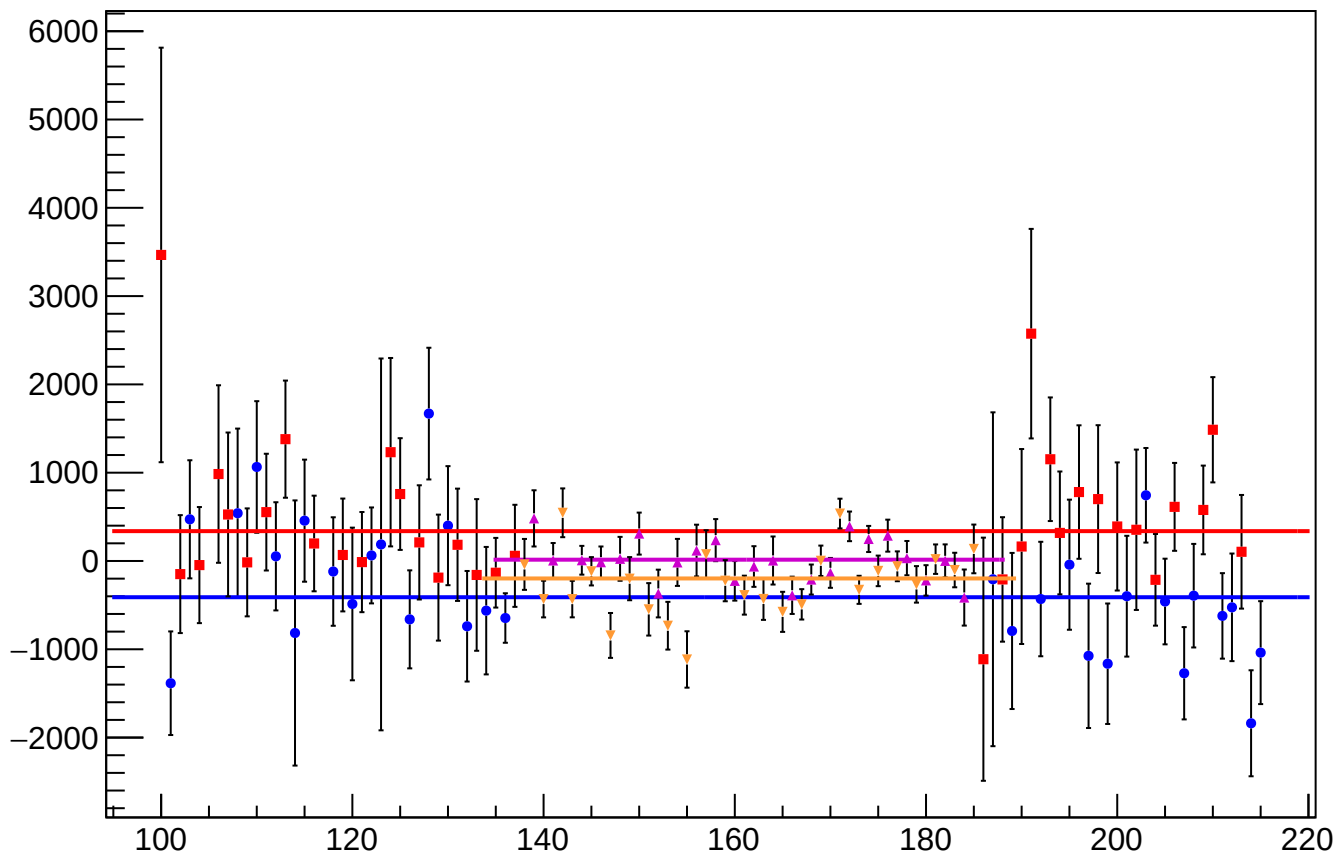
Right: 446.547 $\pm$ 0.056 χ^2 /NDF: 4909783.3/65

In: 207.312 $\pm$ 0.028 χ^2 /NDF:13872530.4/54

Out: 205.869 $\pm$ 0.027 χ^2 /NDF:14988461.4/58

All: 206.580 $\pm$ 0.020 χ^2 /NDF: 28862351.2/111

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -410.501 ± 109.230 $\chi^2/\text{NDF}: 39.9/31$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 338.023 ± 115.107 $\chi^2/\text{NDF}: 23.1/33$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

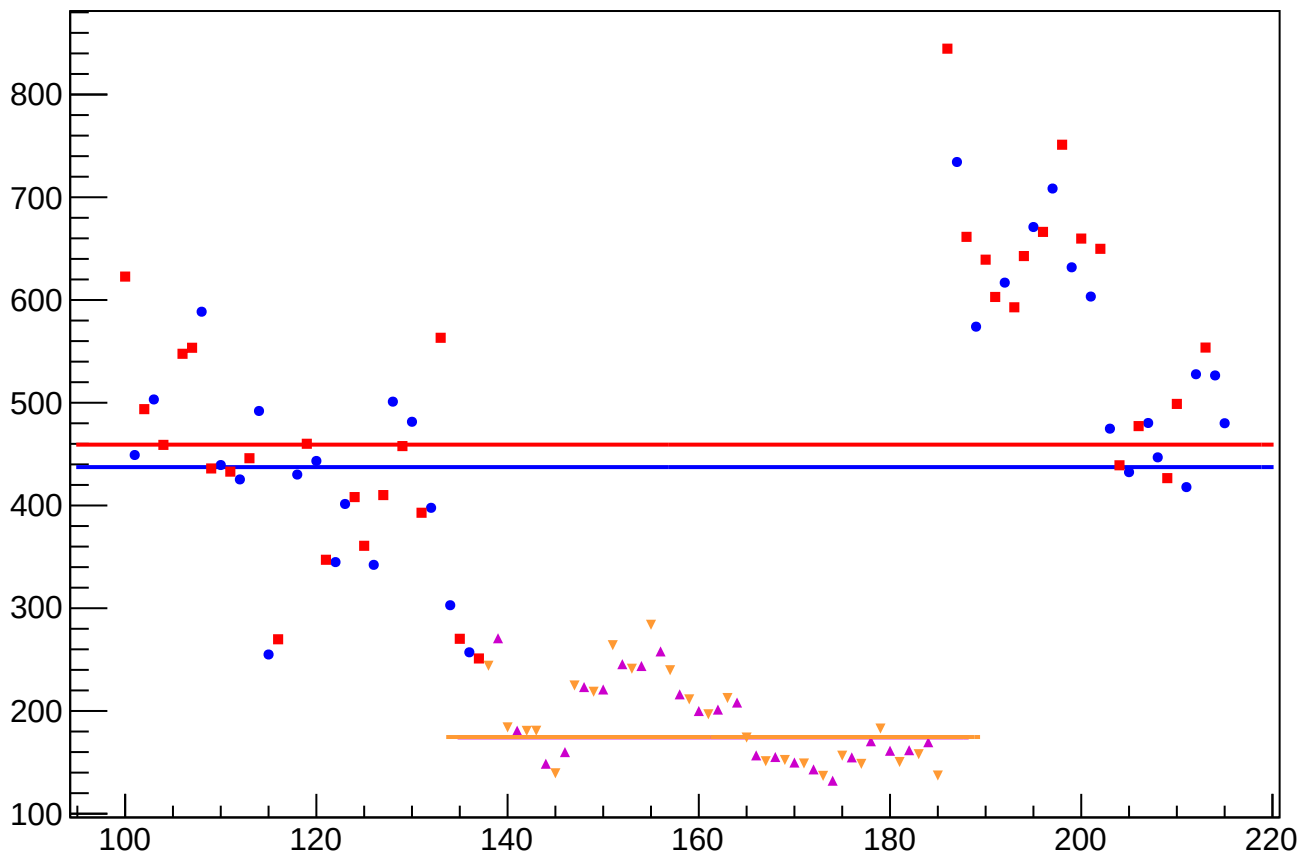
Right: -55.835 ± 79.234 $\chi^2/\text{NDF}: 85.2/65$

In: -41.576 ± 39.712 $\chi^2/\text{NDF}: 80.7/54$

Out: -135.904 ± 39.155 $\chi^2/\text{NDF}: 106.5/58$

All: -89.406 ± 27.882 $\chi^2/\text{NDF}: 190.1/113$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 437.361 $\pm$ 0.077 χ^2 /NDF: 2335869.7/31

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 459.228 $\pm$ 0.081 χ^2 /NDF: 2530828.8/33

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

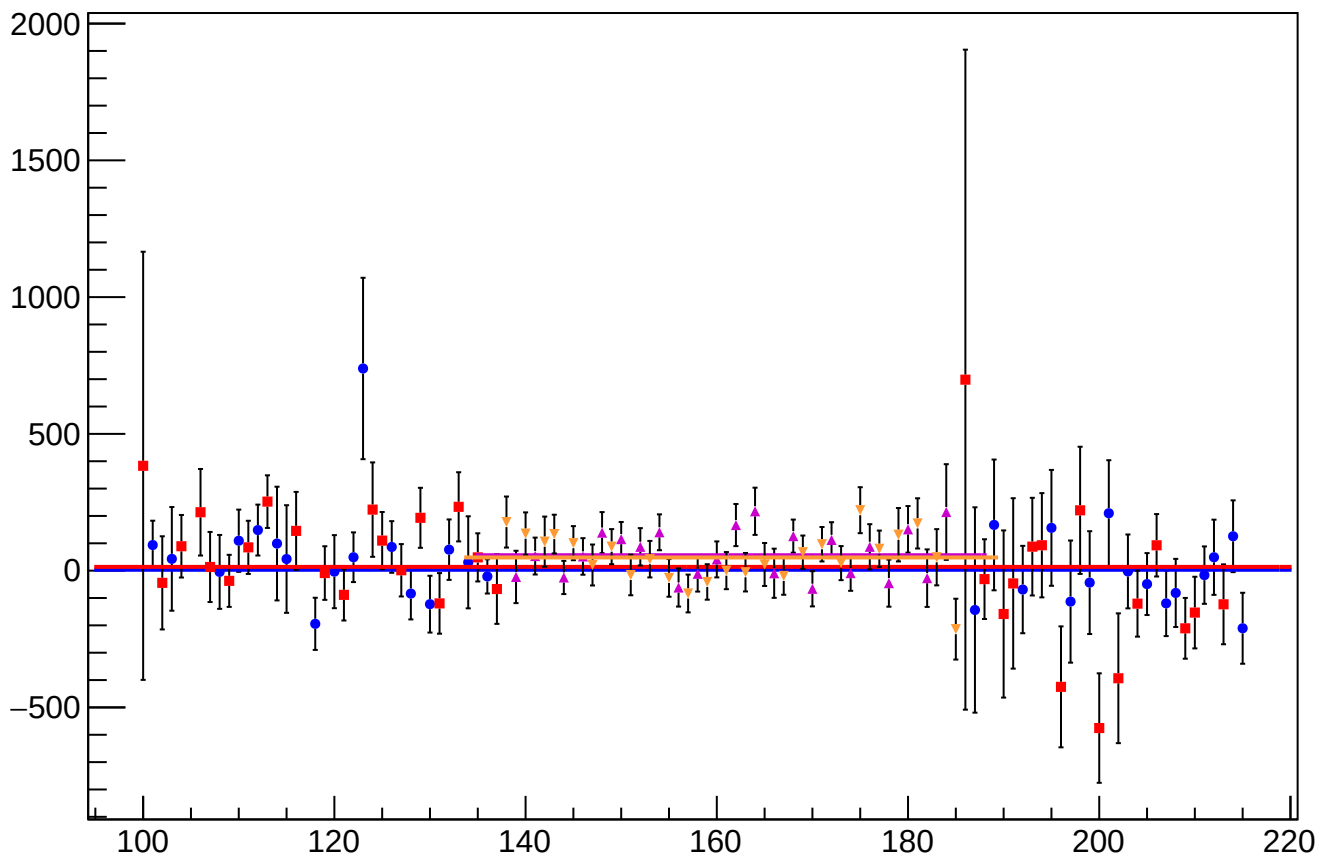
Right: 447.722 $\pm$ 0.056 χ^2 /NDF: 4904677.9/65

In: 209.061 $\pm$ 0.028 χ^2 /NDF: 13748291.3/54

Out: 207.577 $\pm$ 0.028 χ^2 /NDF: 14872949.1/58

All: 208.308 $\pm$ 0.020 χ^2 /NDF: 28622656.9/111

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 3.252 ± 21.685 $\chi^2/\text{NDF}: 26.1/31$

Left Out: 48.233 ± 14.616 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 13.769 ± 22.369 $\chi^2/\text{NDF}: 47.3/33$

Left In: 56.403 ± 15.182 $\chi^2/\text{NDF}: 27.5/22$

Left: 52.163 ± 10.529 $\chi^2/\text{NDF}: 56.9/47$

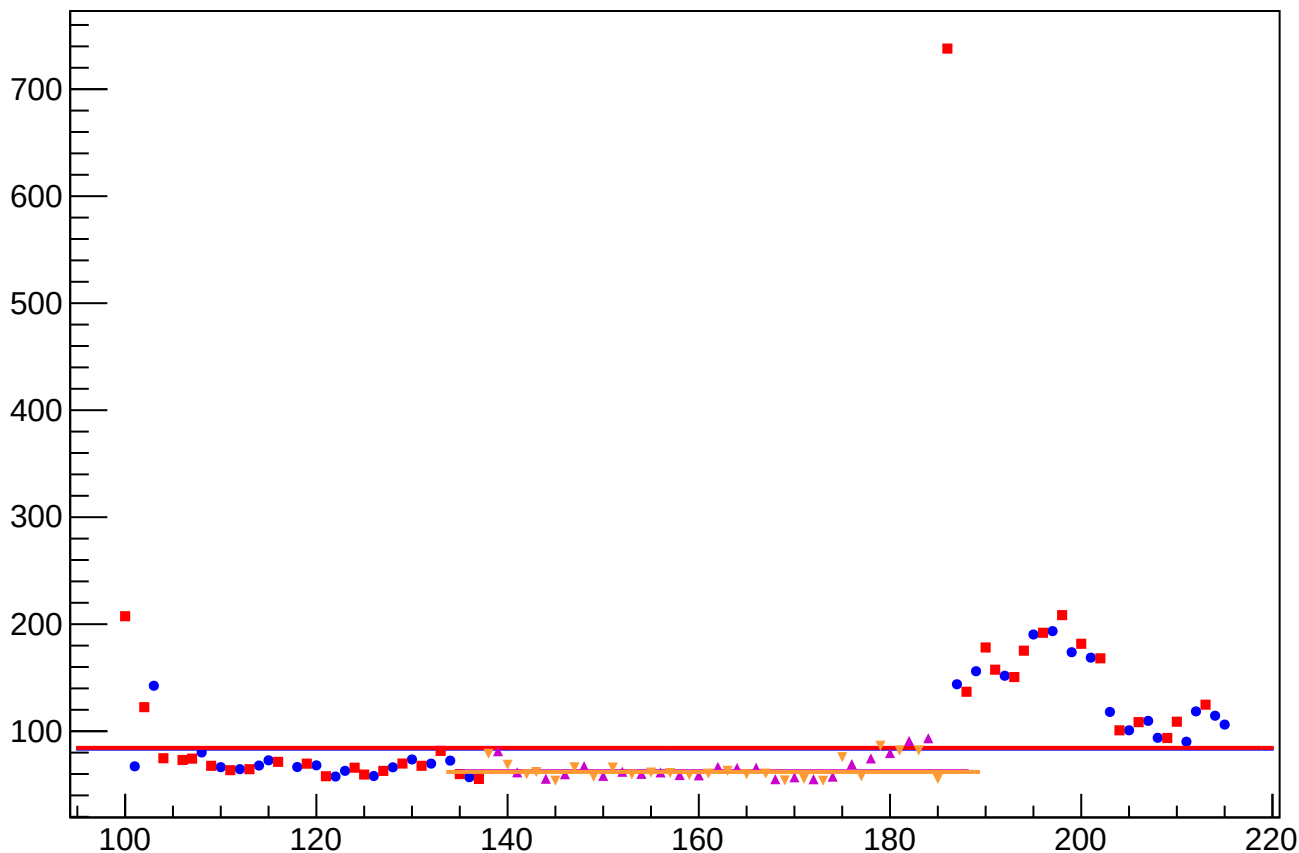
Right: 8.347 ± 15.570 $\chi^2/\text{NDF}: 73.5/65$

In: 38.919 ± 12.437 $\chi^2/\text{NDF}: 57.6/54$

Out: 37.922 ± 12.235 $\chi^2/\text{NDF}: 78.2/58$

All: 38.413 ± 8.722 $\chi^2/\text{NDF}: 135.8/113$

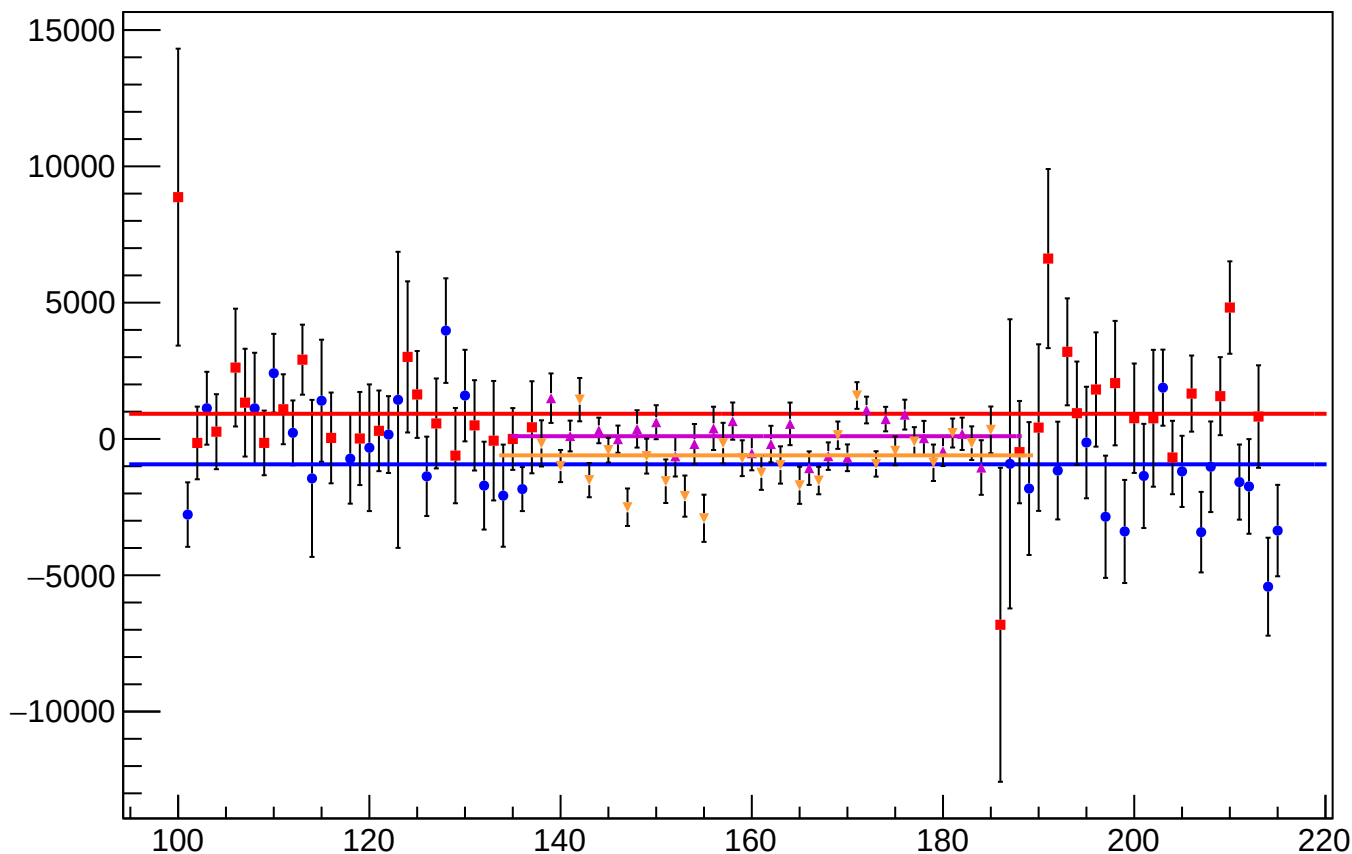
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 83.662 $\pm$ 0.015 χ^2 /NDF: 4337284.0/31
 Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24
 Right Out: 84.442 $\pm$ 0.016 χ^2 /NDF: 5228555.8/33
 Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47
 Right: 84.040 $\pm$ 0.011 χ^2 /NDF: 9567094.6/65
 In: 69.533 $\pm$ 0.009 χ^2 /NDF: 6178090.8/54
 Out: 68.677 $\pm$ 0.009 χ^2 /NDF: 7251058.8/58
 All: 69.098 $\pm$ 0.006 χ^2 /NDF: 13433966.2/113

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -930.600+/-284.408 χ^2/NDF : 43.4/31

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 923.716+/-292.803 χ^2/NDF : 24.6/33

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

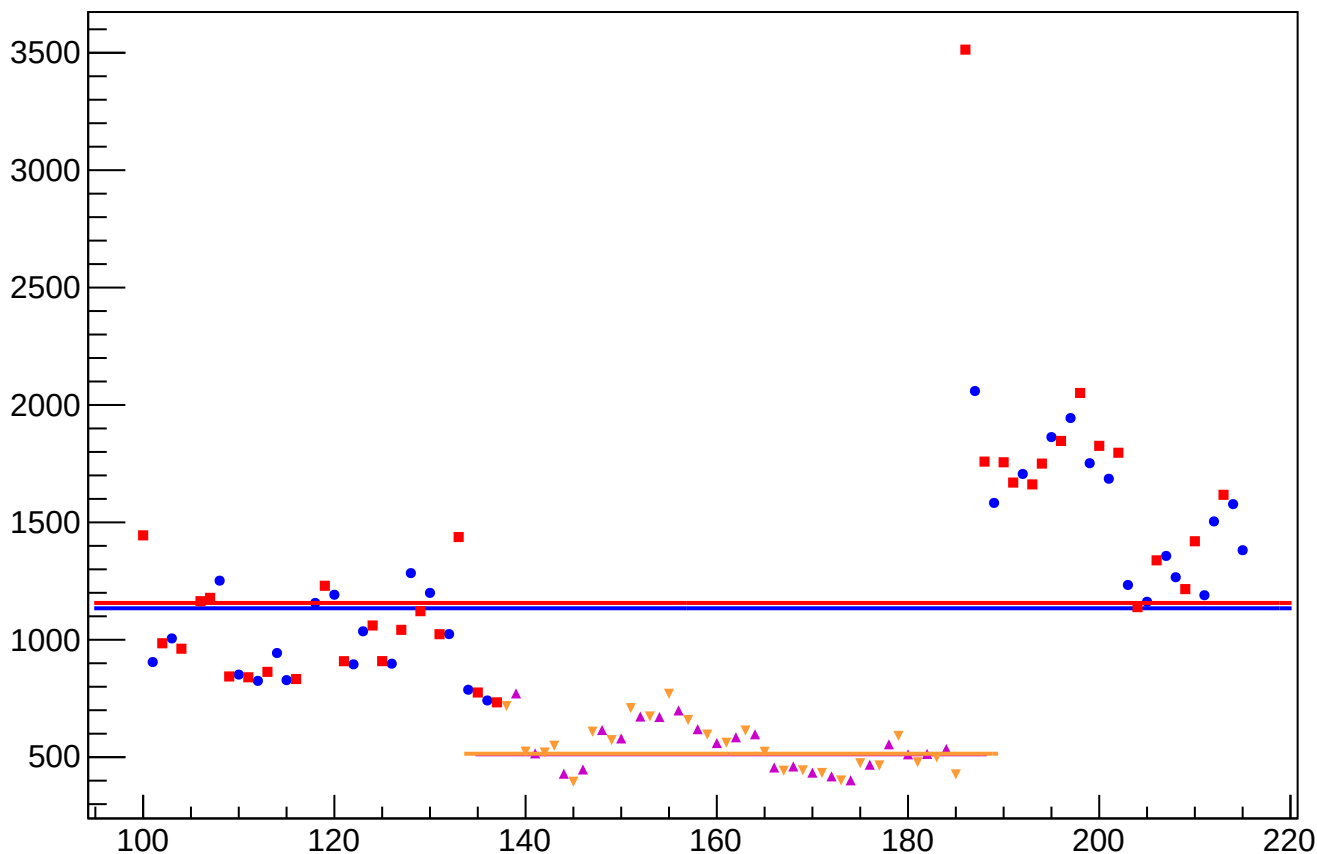
Right: -30.403+/-204.010 χ^2/NDF : 88.6/65

In: -65.774+/-114.224 χ^2/NDF : 79.9/54

Out: -375.494+/-112.709 χ^2/NDF : 113.1/58

All: -222.702+/-80.227 χ^2/NDF : 196.7/113

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1134.147+/-0.201 χ^2/NDF : 2592385.0/31

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1156.843+/-0.207 χ^2/NDF : 3115992.3/33

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

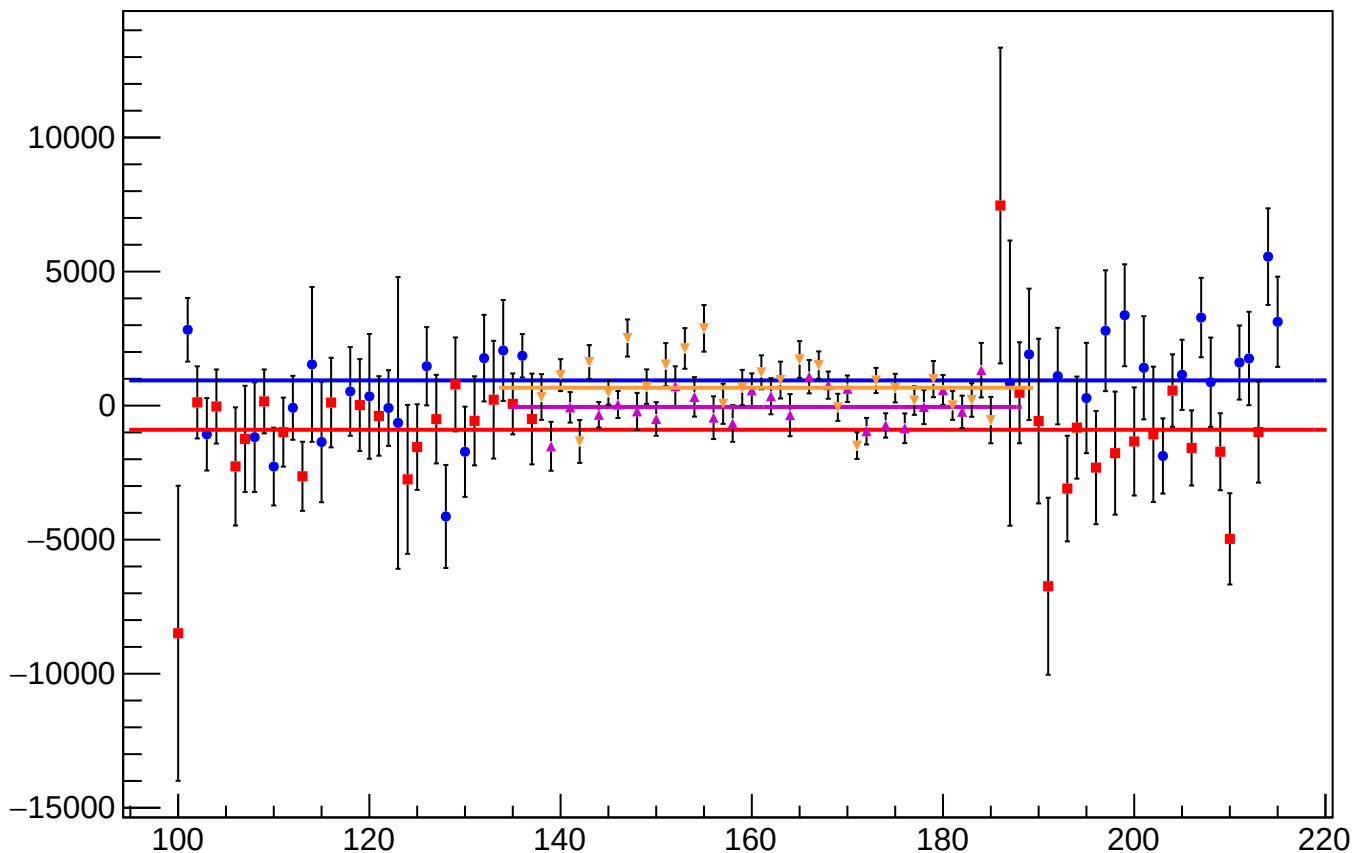
Right: 1145.165+/-0.144 χ^2/NDF : 5714560.4/65

In: 612.518+/-0.081 χ^2/NDF : 11655287.3/54

Out: 609.897+/-0.080 χ^2/NDF : 12503459.9/58

All: 611.190+/-0.057 χ^2/NDF : 24159280.9/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 940.292 $\pm$ 285.449 χ^2 /NDF: 42.7/31

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -900.787 $\pm$ 294.005 χ^2 /NDF: 24.4/33

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

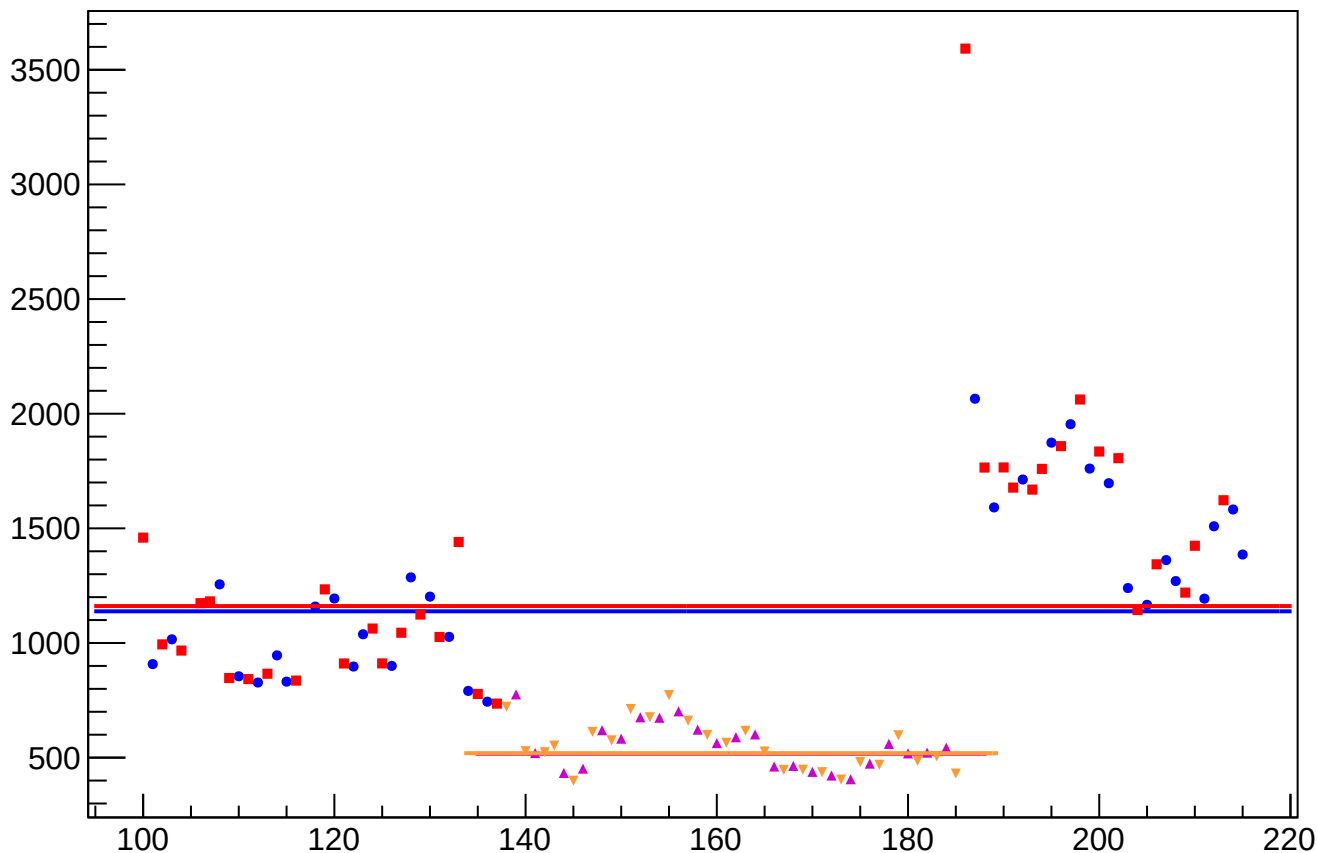
Right: 46.929 $\pm$ 204.801 χ^2 /NDF: 87.3/65

In: 111.002 $\pm$ 115.120 χ^2 /NDF:78.9/54

Out: 433.531 $\pm$ 113.584 χ^2 /NDF:110.1/58

All: 274.433 $\pm$ 80.854 χ^2 /NDF: 193.0/113

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1138.197+/-0.202 χ^2/NDF : 2598283.9/31

Left Out: 519.254+/-0.087 χ^2/NDF : 1172411.1/24

Right Out: 1161.090+/-0.208 χ^2/NDF : 3130001.7/33

Left In: 516.792+/-0.089 χ^2/NDF : 1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

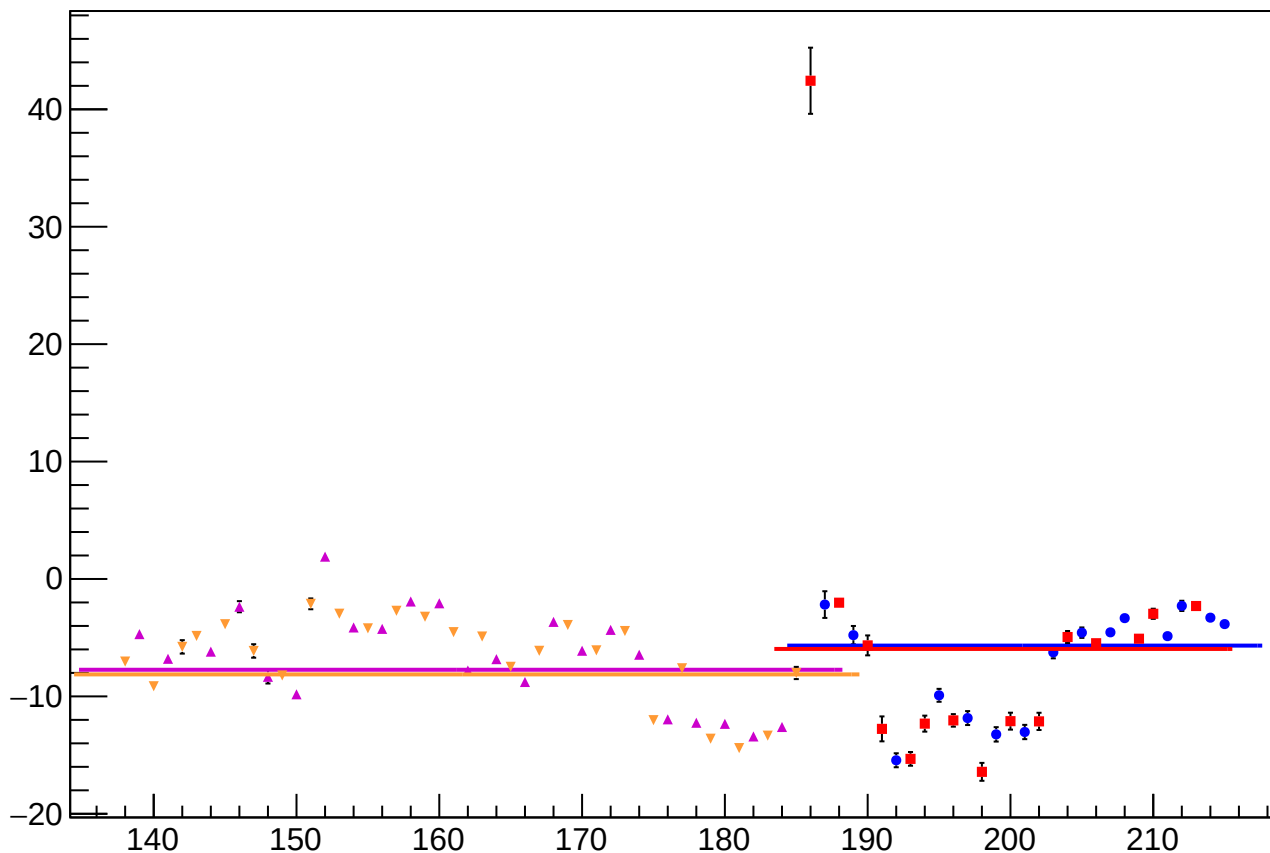
Right: 1149.306+/-0.145 χ^2/NDF : 5734528.2/65

In: 617.861+/-0.081 χ^2/NDF : 11556181.2/54

Out: 615.051+/-0.080 χ^2/NDF : 12411464.1/58

All: 616.437+/-0.057 χ^2/NDF : 23968249.2/11

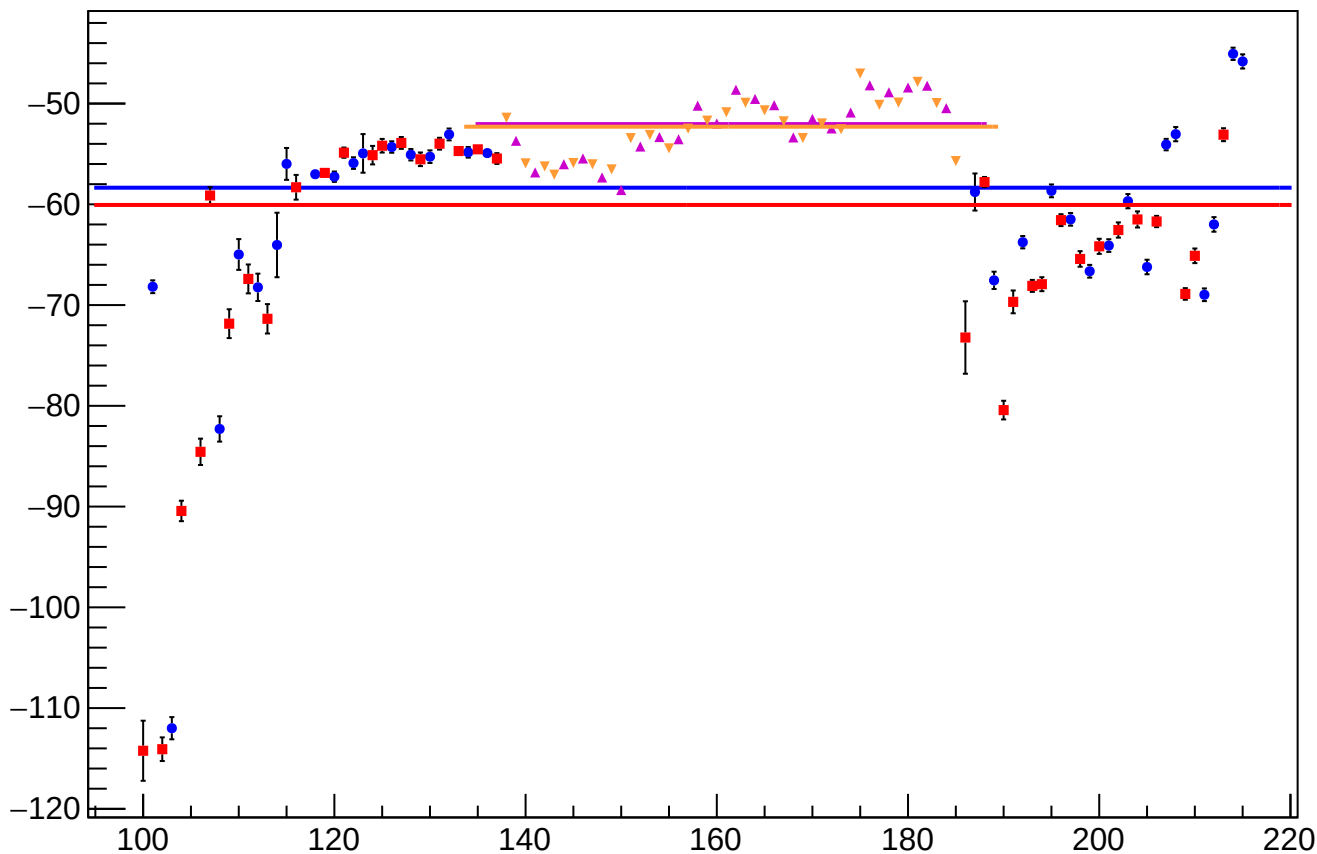
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.675 ± 0.117 χ^2/NDF : 956.8/14
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -5.959 ± 0.127 χ^2/NDF : 1473.0/14
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -5.805 ± 0.086 χ^2/NDF : 2432.5/29
 In: -7.204 ± 0.059 χ^2/NDF : 4905.2/37
 Out: -7.653 ± 0.060 χ^2/NDF : 5334.9/39
 All: -7.428 ± 0.042 χ^2/NDF : 10268.7/77

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.351 +/- 0.111 χ^2/NDF : 5292.8/31

Left Out: -52.297 +/- 0.055 χ^2/NDF : 2657.5/24

Right Out: -60.064 +/- 0.112 χ^2/NDF : 6373.9/33

Left In: -52.038 +/- 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 +/- 0.040 χ^2/NDF : 5848.6/47

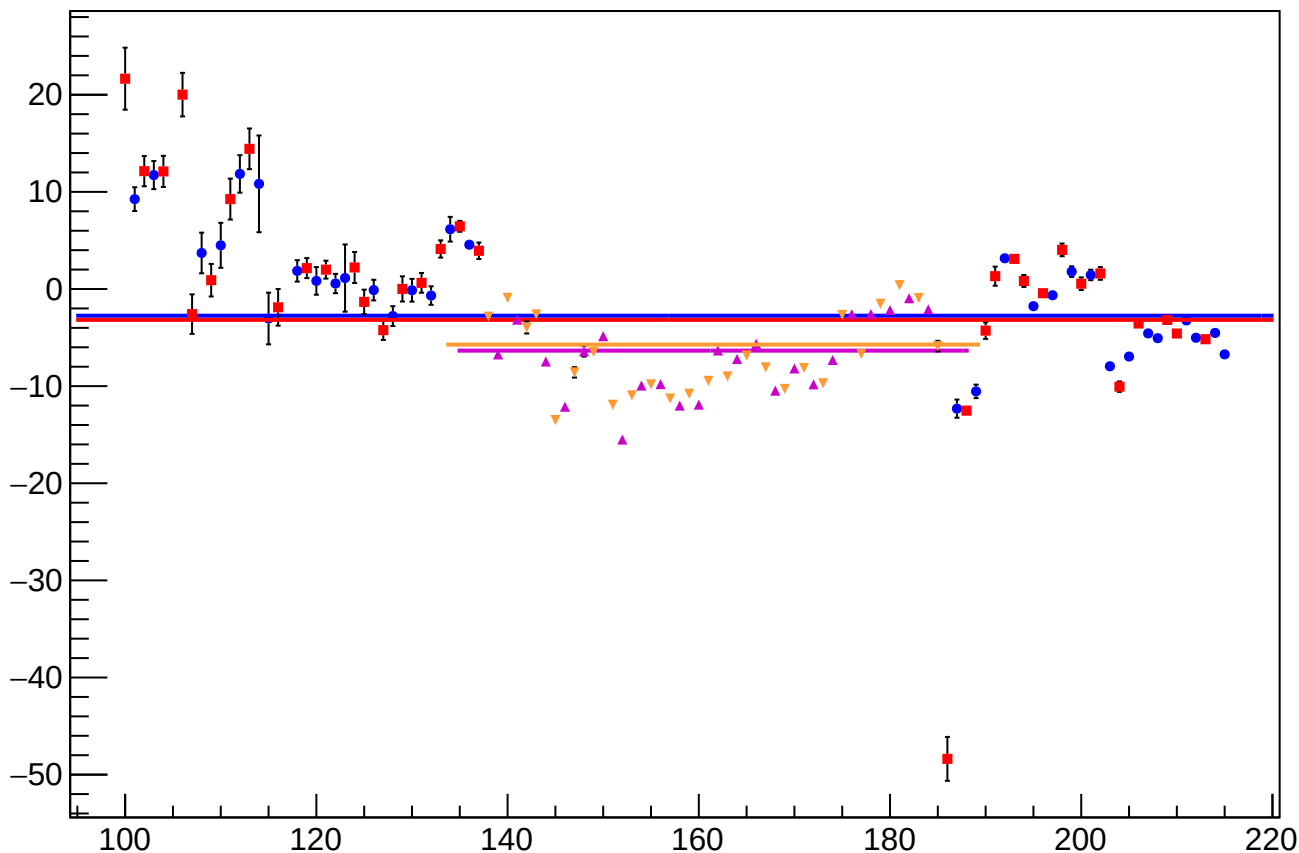
Right: -59.200 +/- 0.079 χ^2/NDF : 11784.8/65

In: -53.362 +/- 0.051 χ^2/NDF : 11031.8/54

Out: -53.809 +/- 0.049 χ^2/NDF : 12906.6/58

All: -53.592 +/- 0.035 χ^2/NDF : 23978.3/113

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.749 ± 0.106 $\chi^2/\text{NDF}: 1623.5/31$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -3.177 ± 0.110 $\chi^2/\text{NDF}: 3239.8/33$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

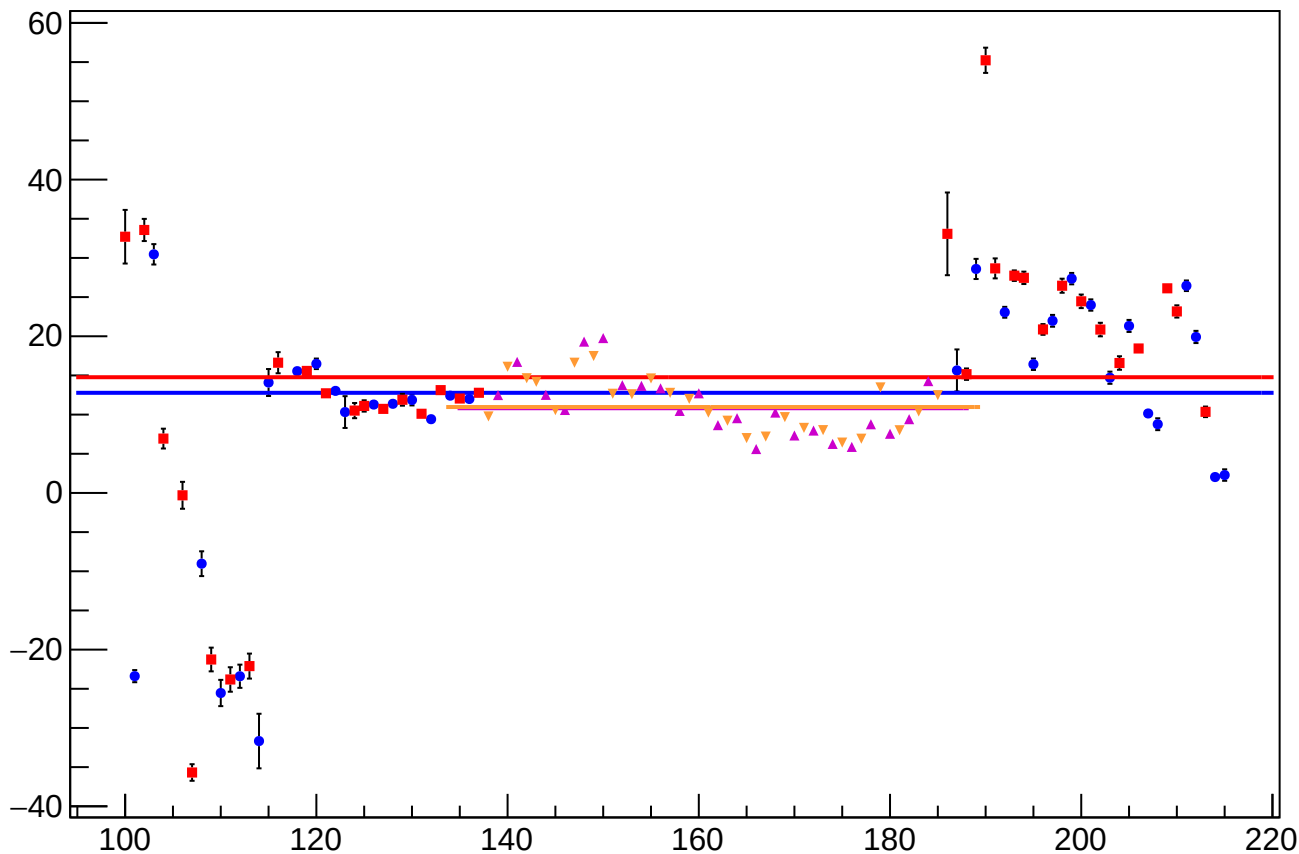
Right: -2.955 ± 0.076 $\chi^2/\text{NDF}: 4871.1/65$

In: -5.280 ± 0.058 $\chi^2/\text{NDF}: 5819.7/54$

Out: -5.022 ± 0.058 $\chi^2/\text{NDF}: 7612.7/58$

All: -5.151 ± 0.041 $\chi^2/\text{NDF}: 13442.4/113$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.782 $\pm$ 0.123 χ^2 /NDF: 6291.6/31

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 14.772 $\pm$ 0.127 χ^2 /NDF: 6913.3/33

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

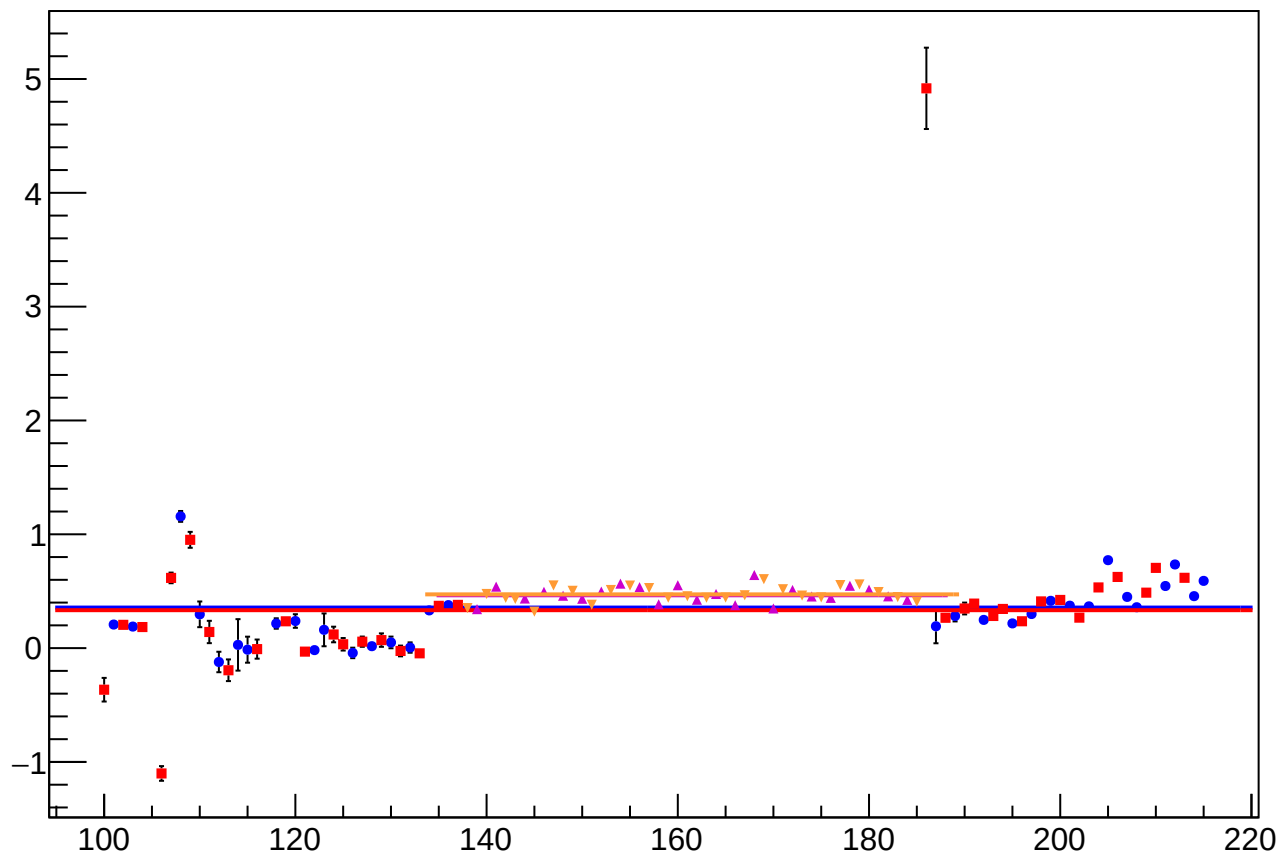
Right: 13.747 $\pm$ 0.088 χ^2 /NDF: 13331.9/65

In: 11.224 $\pm$ 0.056 χ^2 /NDF: 10041.3/54

Out: 11.690 $\pm$ 0.055 χ^2 /NDF: 10281.1/58

All: 11.461 $\pm$ 0.039 χ^2 /NDF: 20357.4/113

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.356+/-0.005 χ^2/NDF : 1127.0/31

Left Out: 0.472+/-0.003 χ^2/NDF : 519.0/24

Right Out: 0.333+/-0.006 χ^2/NDF : 1723.0/33

Left In: 0.464+/-0.003 χ^2/NDF : 733.1/22

Left: 0.468+/-0.002 χ^2/NDF : 1256.2/47

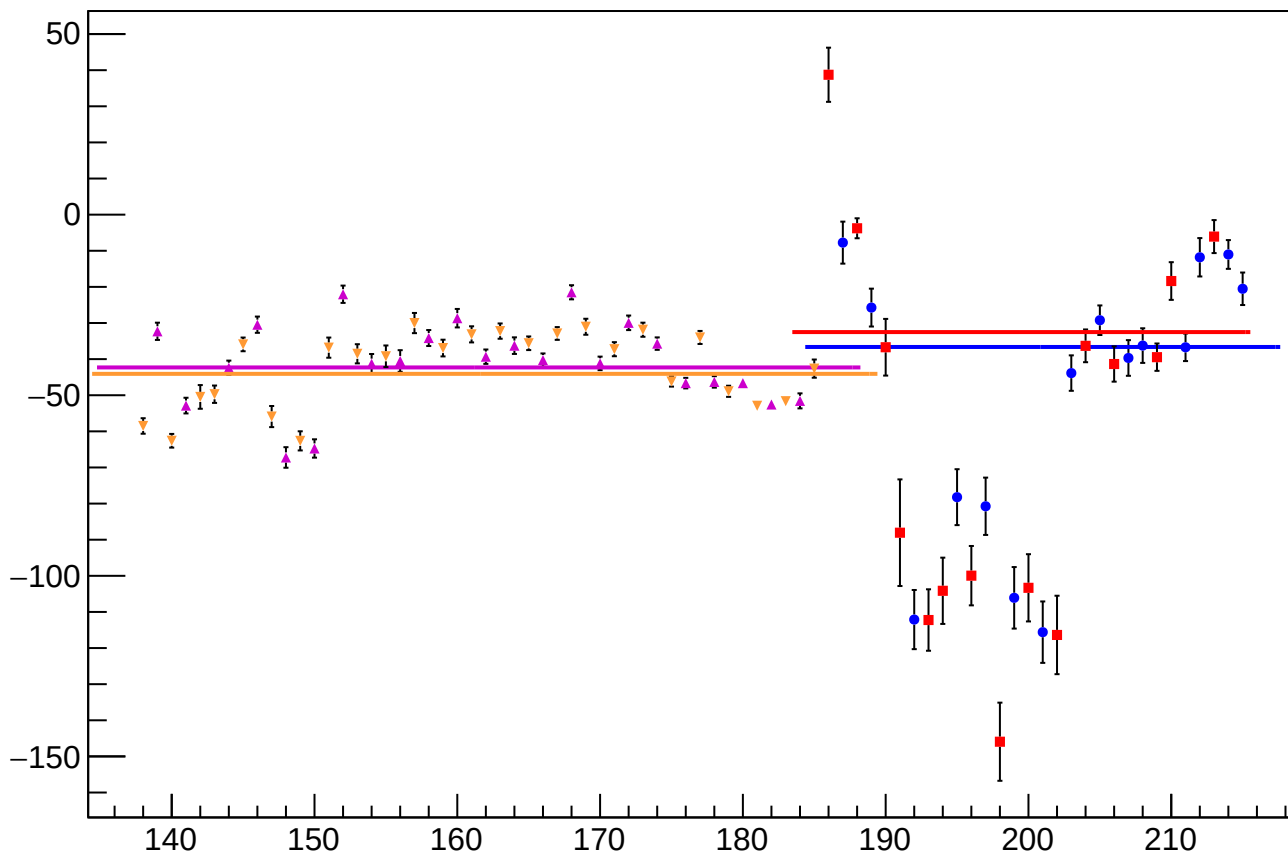
Right: 0.345+/-0.004 χ^2/NDF : 2858.8/65

In: 0.442+/-0.002 χ^2/NDF : 2176.1/54

Out: 0.445+/-0.002 χ^2/NDF : 2743.2/58

All: 0.443+/-0.002 χ^2/NDF : 4920.1/113

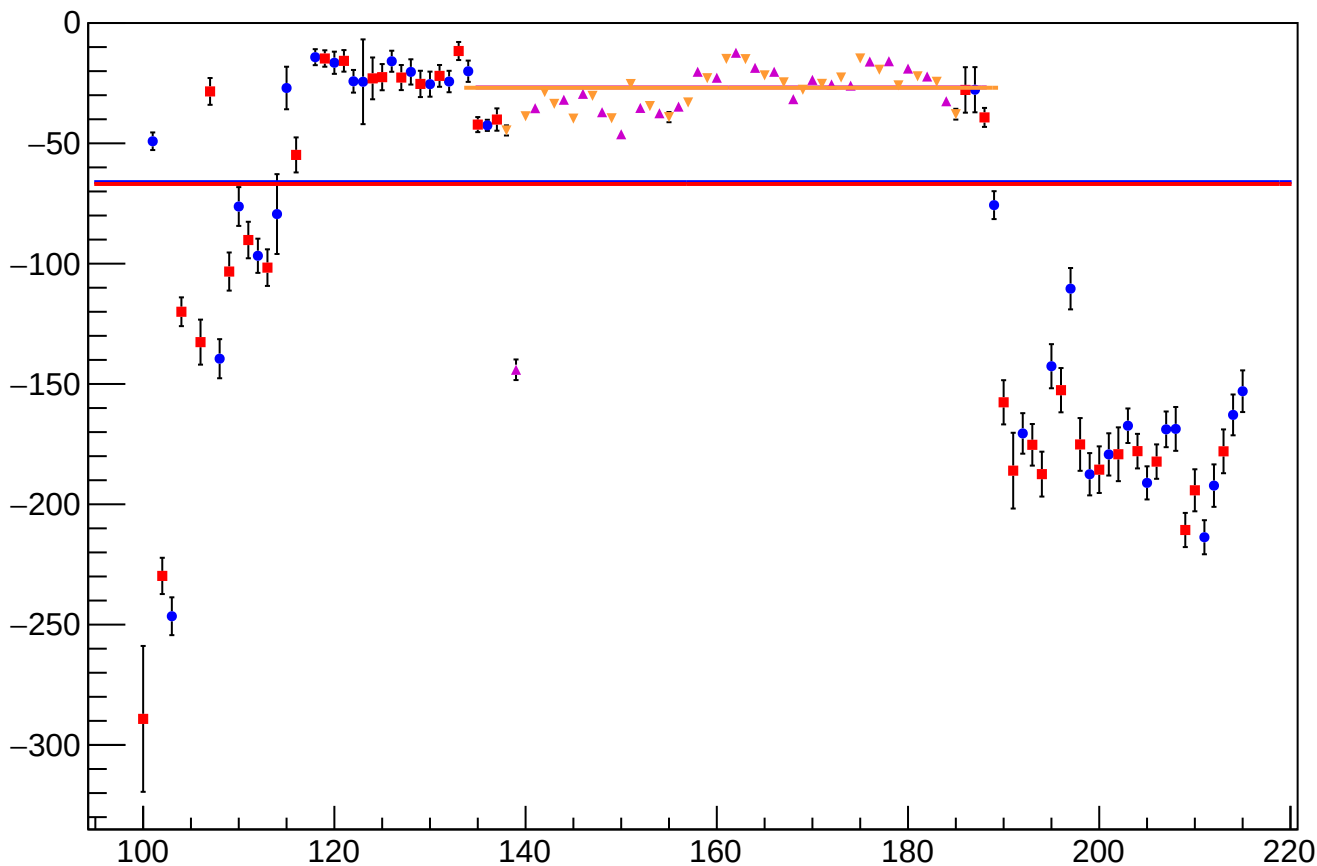
reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.636 ± 1.357 $\chi^2/\text{NDF}: 408.2/14$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -32.513 ± 1.438 $\chi^2/\text{NDF}: 704.4/14$
 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: -34.695 ± 0.987 $\chi^2/\text{NDF}: 1117.0/29$
 In: -41.853 ± 0.383 $\chi^2/\text{NDF}: 1064.9/37$
 Out: -43.291 ± 0.375 $\chi^2/\text{NDF}: 1397.2/39$
 All: -42.586 ± 0.268 $\chi^2/\text{NDF}: 2469.3/77$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -66.135+/-1.003 χ^2/NDF : 4027.7/31

Left Out: -26.902+/-0.316 χ^2/NDF : 631.0/24

Right Out: -66.884+/-1.043 χ^2/NDF : 3998.5/33

Left In: -26.774+/-0.326 χ^2/NDF : 1394.5/22

Left: -26.840+/-0.227 χ^2/NDF : 2025.6/47

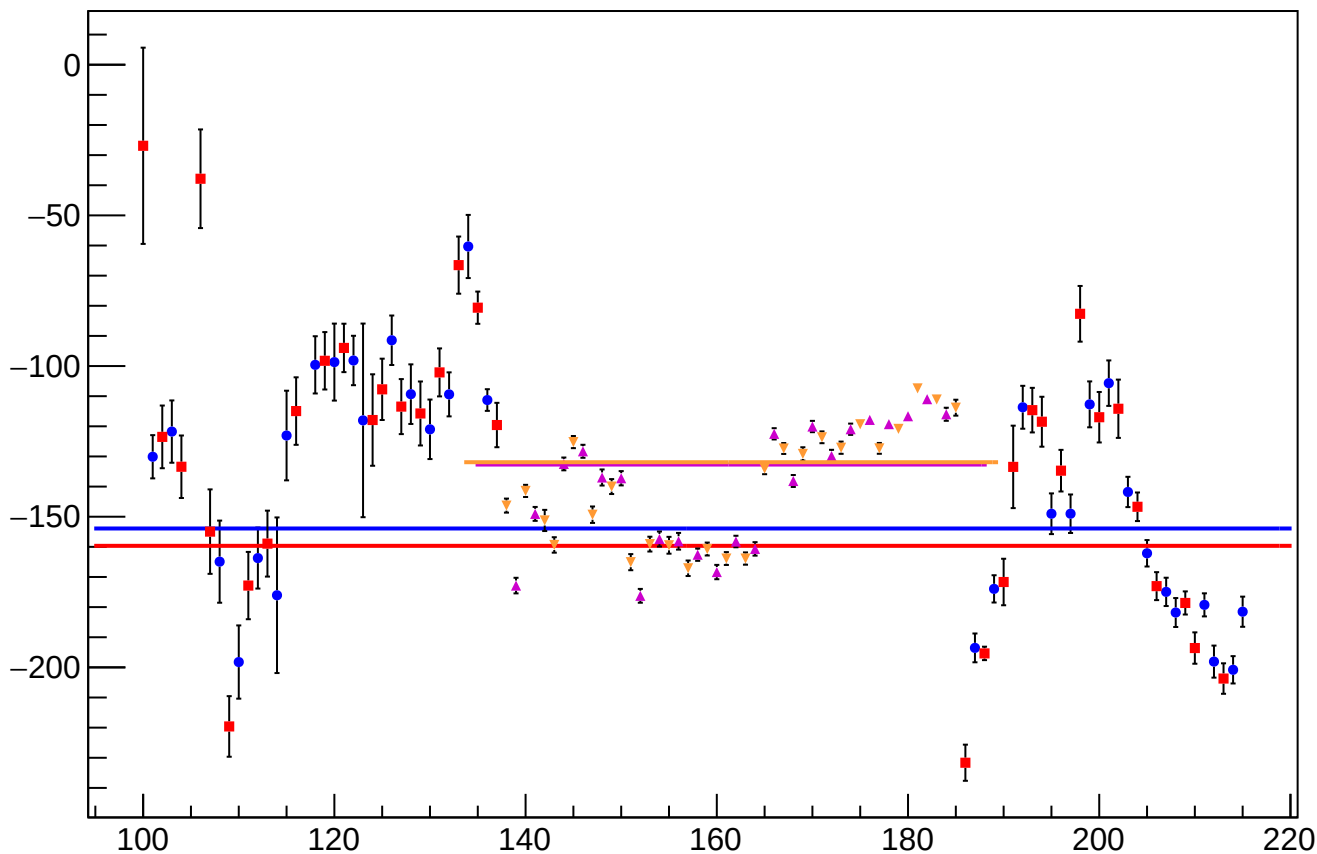
Right: -66.495+/-0.723 χ^2/NDF : 8026.4/65

In: -30.541+/-0.310 χ^2/NDF : 6814.8/54

Out: -30.271+/-0.303 χ^2/NDF : 5976.1/58

All: -30.403+/-0.217 χ^2/NDF : 12791.3/113

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -153.908 ± 1.121 χ^2/NDF : 991.1/31

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -159.664 ± 1.132 χ^2/NDF : 1482.3/33

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

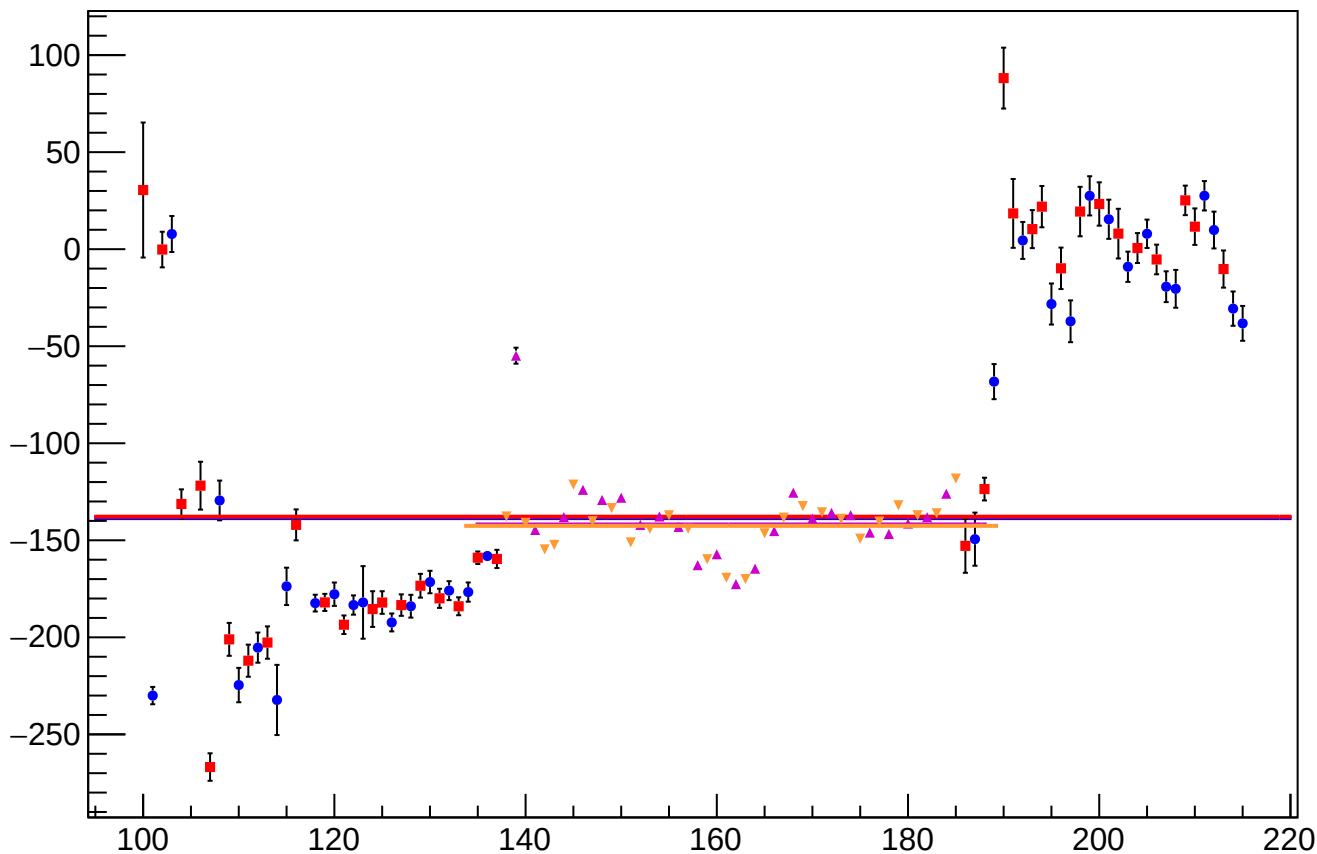
Right: -156.758 ± 0.796 χ^2/NDF : 2486.5/65

In: -135.081 ± 0.376 χ^2/NDF : 3789.4/54

Out: -134.877 ± 0.370 χ^2/NDF : 4458.7/58

All: -134.978 ± 0.264 χ^2/NDF : 8248.2/113

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -138.571 ± 1.123 $\chi^2/\text{NDF}: 4562.6/31$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -137.841 ± 1.191 $\chi^2/\text{NDF}: 4332.0/33$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

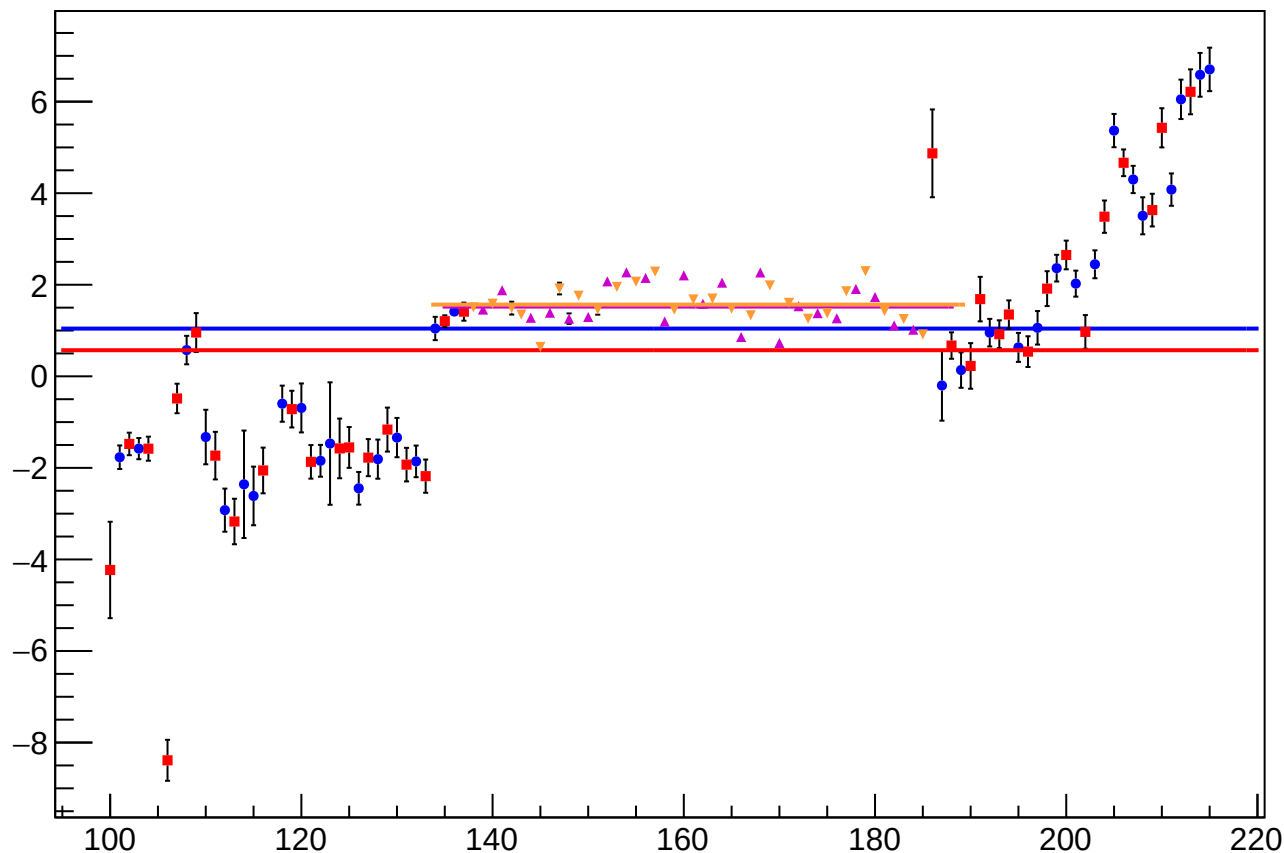
Right: -138.227 ± 0.817 $\chi^2/\text{NDF}: 8894.9/65$

In: -141.545 ± 0.346 $\chi^2/\text{NDF}: 6114.6/54$

Out: -142.180 ± 0.339 $\chi^2/\text{NDF}: 5494.2/58$

All: -141.869 ± 0.242 $\chi^2/\text{NDF}: 11610.5/113$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.042 ± 0.054 χ^2/NDF : 1580.8/31

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.570 ± 0.057 χ^2/NDF : 1646.1/33

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

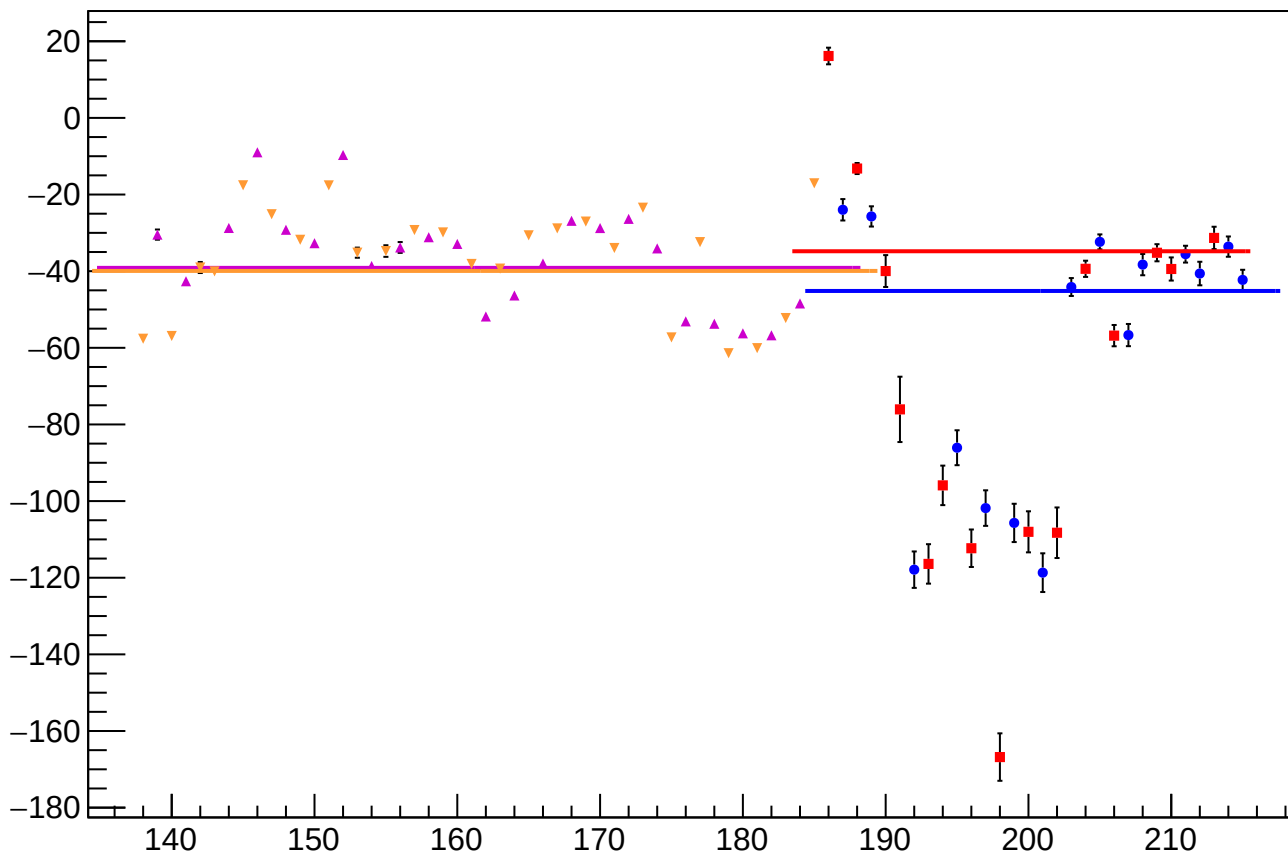
Right: 0.818 ± 0.039 χ^2/NDF : 3263.1/65

In: 1.482 ± 0.016 χ^2/NDF : 2391.3/54

Out: 1.492 ± 0.016 χ^2/NDF : 2472.8/58

All: 1.487 ± 0.011 χ^2/NDF : 4864.2/113

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.164 ± 0.749 $\chi^2/\text{NDF}: 1040.9/14$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.803 ± 0.756 $\chi^2/\text{NDF}: 2279.4/14$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

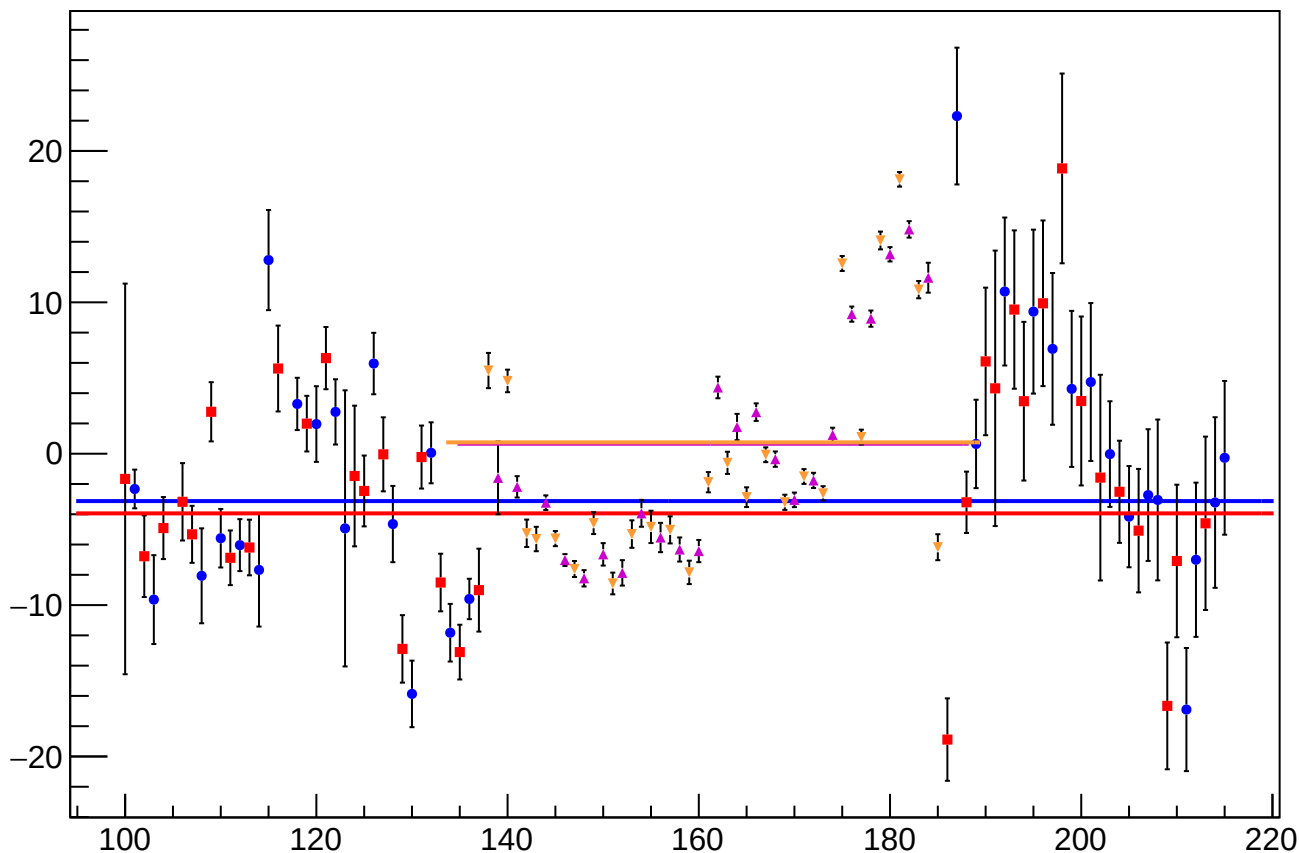
Right: -40.037 ± 0.532 $\chi^2/\text{NDF}: 3415.1/29$

In: -39.384 ± 0.151 $\chi^2/\text{NDF}: 9637.6/37$

Out: -39.733 ± 0.150 $\chi^2/\text{NDF}: 12130.1/39$

All: -39.560 ± 0.107 $\chi^2/\text{NDF}: 21770.4/77$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.130 ± 0.457 $\chi^2/\text{NDF}: 231.5/31$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.941 ± 0.458 $\chi^2/\text{NDF}: 197.4/33$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

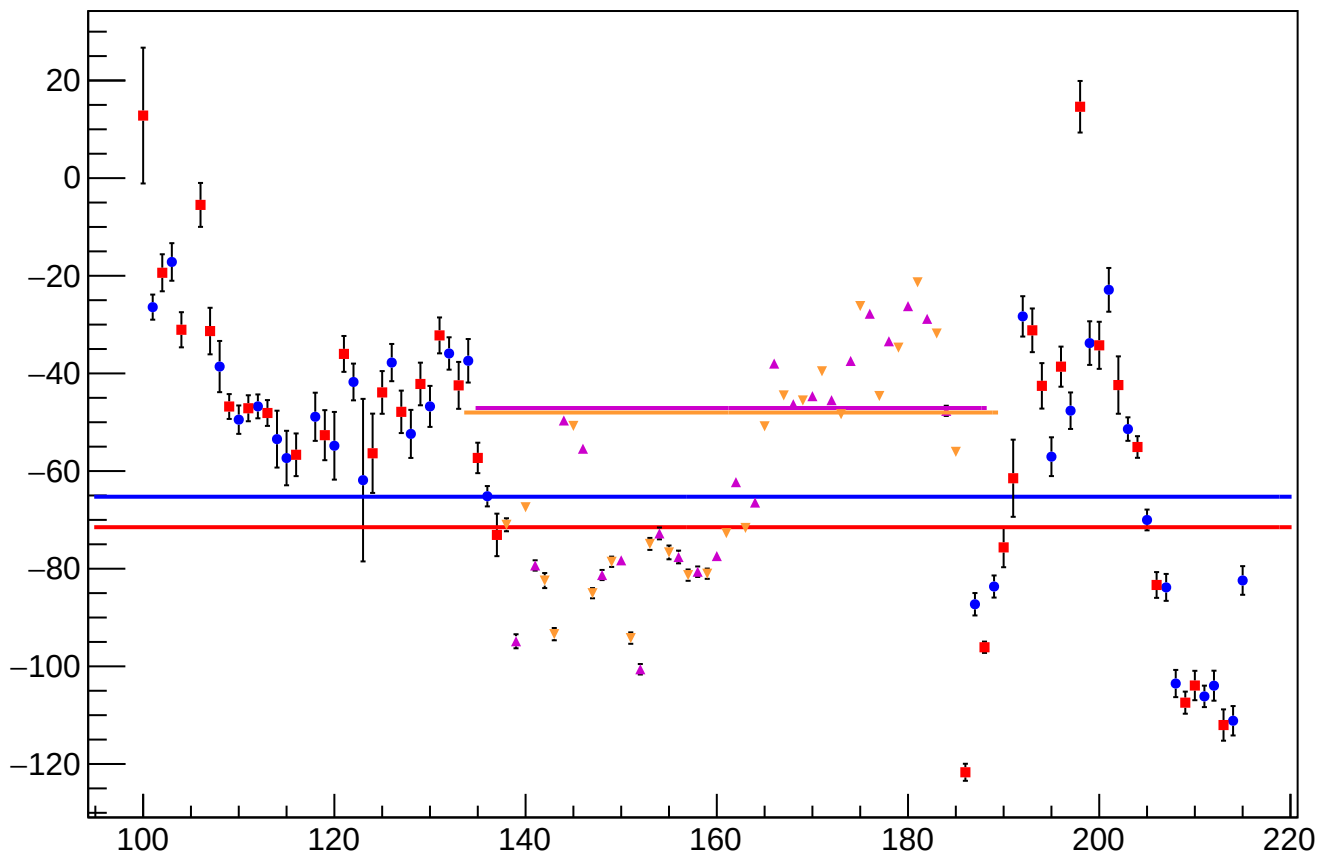
Right: -3.535 ± 0.323 $\chi^2/\text{NDF}: 430.5/65$

In: 0.398 ± 0.120 $\chi^2/\text{NDF}: 3633.5/54$

Out: 0.427 ± 0.120 $\chi^2/\text{NDF}: 4266.1/58$

All: 0.413 ± 0.085 $\chi^2/\text{NDF}: 7899.6/113$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.256 ± 0.564 χ^2/NDF : 2197.4/31

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -71.498 ± 0.538 χ^2/NDF : 3719.0/33

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

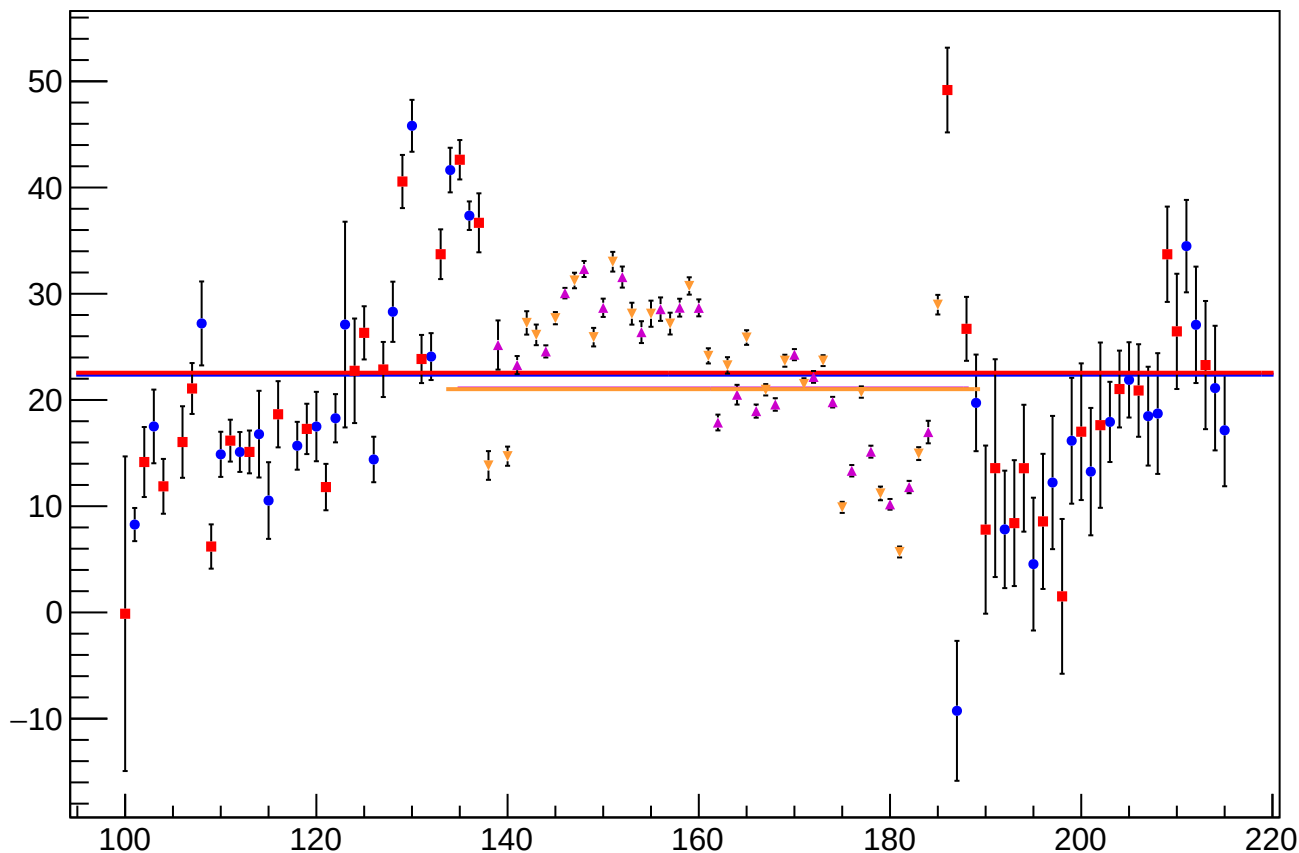
Right: -68.522 ± 0.389 χ^2/NDF : 5980.6/65

In: -48.368 ± 0.150 χ^2/NDF : 18678.7/54

Out: -49.801 ± 0.149 χ^2/NDF : 22429.9/58

All: -49.090 ± 0.106 χ^2/NDF : 41154.8/113

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.384 $\pm$ 0.514 χ^2 /NDF: 515.6/31

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.565 $\pm$ 0.526 χ^2 /NDF: 446.5/33

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

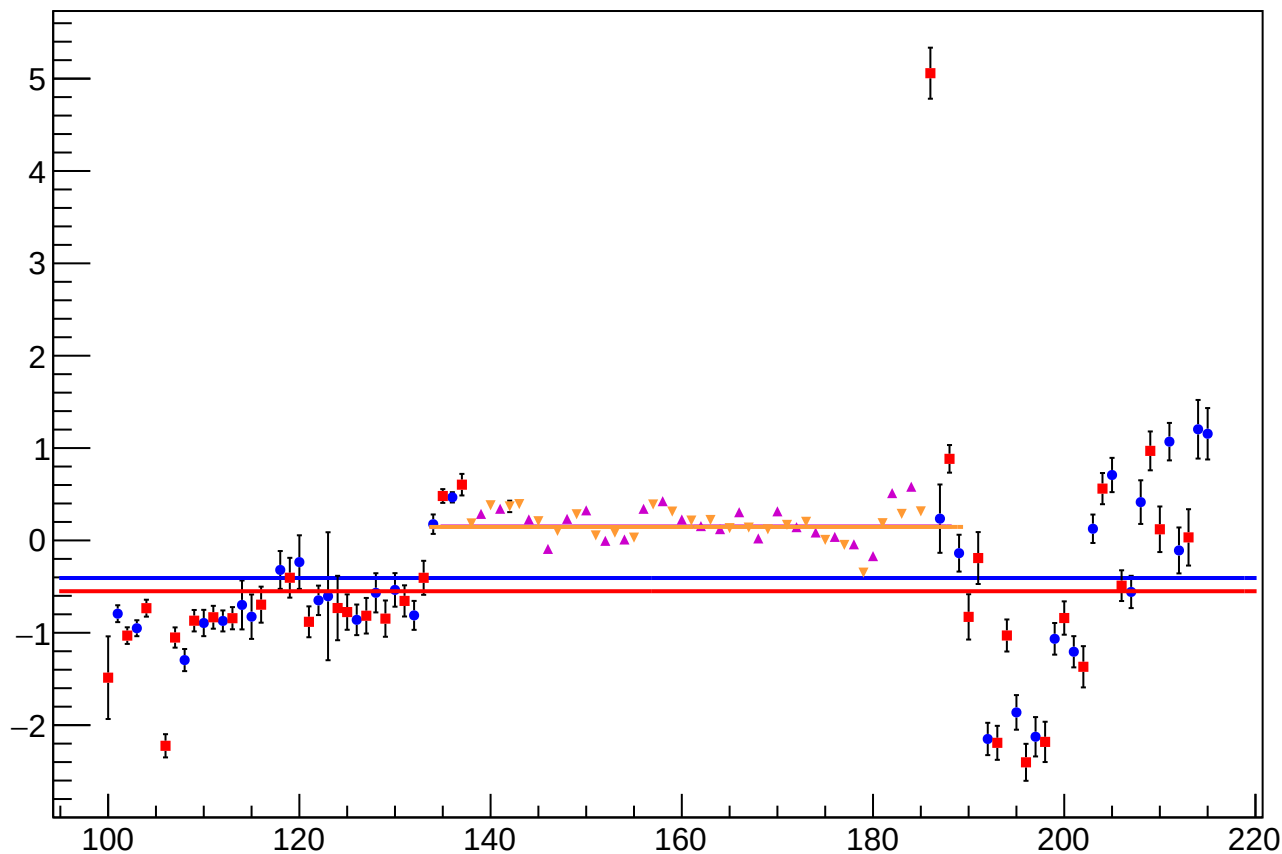
Right: 22.473 $\pm$ 0.368 χ^2 /NDF: 962.1/65

In: 21.168 $\pm$ 0.135 χ^2 /NDF:2694.8/54

Out: 21.121 $\pm$ 0.134 χ^2 /NDF:3253.8/58

All: 21.144 $\pm$ 0.095 χ^2 /NDF: 5948.7/113

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.407 ± 0.026 $\chi^2/\text{NDF}: 877.9/31$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.550 ± 0.026 $\chi^2/\text{NDF}: 1412.5/33$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

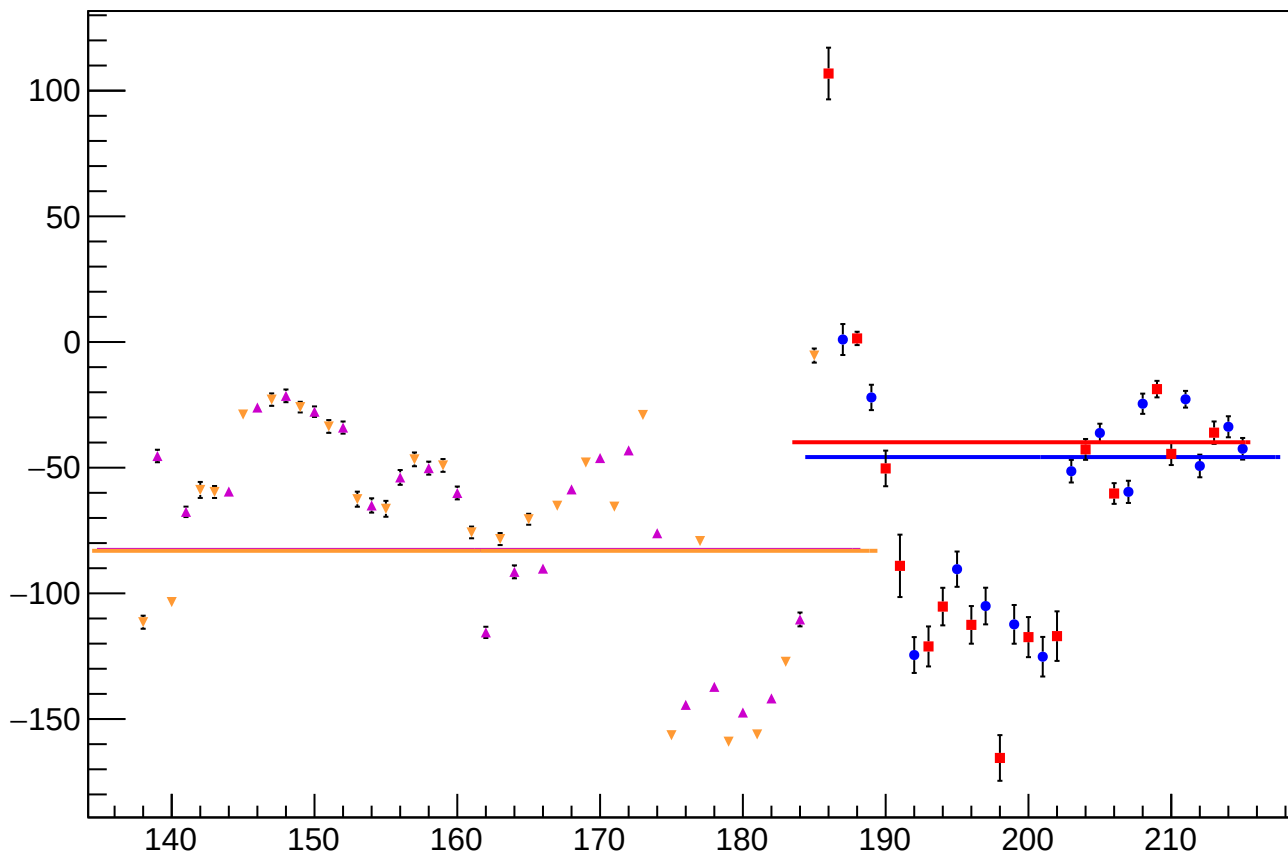
Right: -0.478 ± 0.018 $\chi^2/\text{NDF}: 2305.5/65$

In: 0.119 ± 0.006 $\chi^2/\text{NDF}: 2179.4/54$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2691.4/58$

All: 0.114 ± 0.004 $\chi^2/\text{NDF}: 4872.6/113$

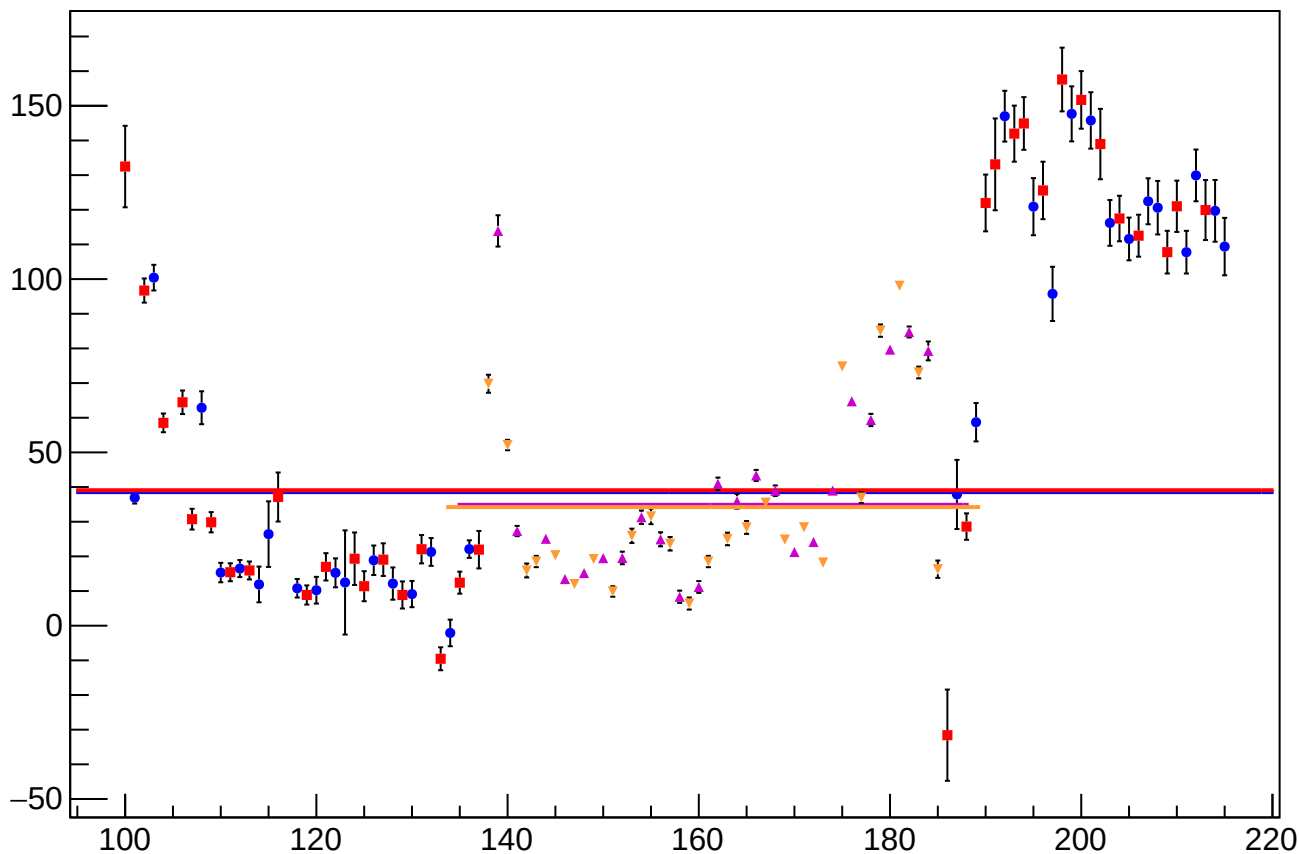
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.777 ± 1.246 $\chi^2/\text{NDF}: 587.7/14$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -39.880 ± 1.315 $\chi^2/\text{NDF}: 1153.7/14$
 Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$
 Right: -42.987 ± 0.904 $\chi^2/\text{NDF}: 1752.0/29$
 In: -79.019 ± 0.394 $\chi^2/\text{NDF}: 12220.3/37$
 Out: -79.302 ± 0.388 $\chi^2/\text{NDF}: 15956.0/39$
 All: -79.163 ± 0.276 $\chi^2/\text{NDF}: 28176.6/77$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.544+/-0.742 χ^2/NDF : 2697.0/31

Left Out: 34.219+/-0.320 χ^2/NDF : 6192.6/24

Right Out: 39.082+/-0.744 χ^2/NDF : 2939.6/33

Left In: 34.870+/-0.329 χ^2/NDF : 4716.1/22

Left: 34.535+/-0.230 χ^2/NDF : 10910.7/47

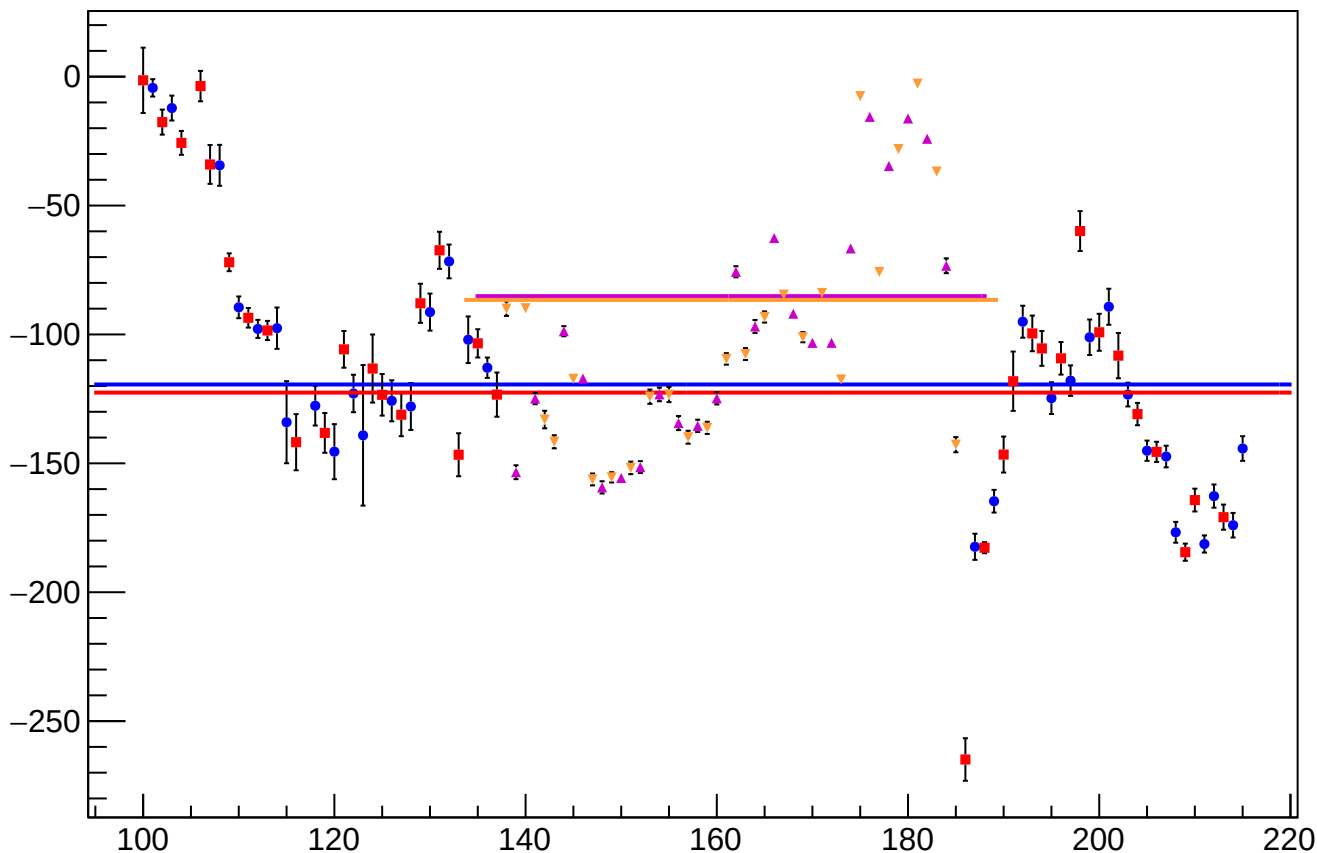
Right: 38.812+/-0.525 χ^2/NDF : 5636.9/65

In: 35.474+/-0.301 χ^2/NDF : 7433.7/54

Out: 34.980+/-0.294 χ^2/NDF : 9168.3/58

All: 35.221+/-0.210 χ^2/NDF : 16603.3/113

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -119.411 ± 0.926 χ^2/NDF : 3141.8/31

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -122.562 ± 0.904 χ^2/NDF : 3737.9/33

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

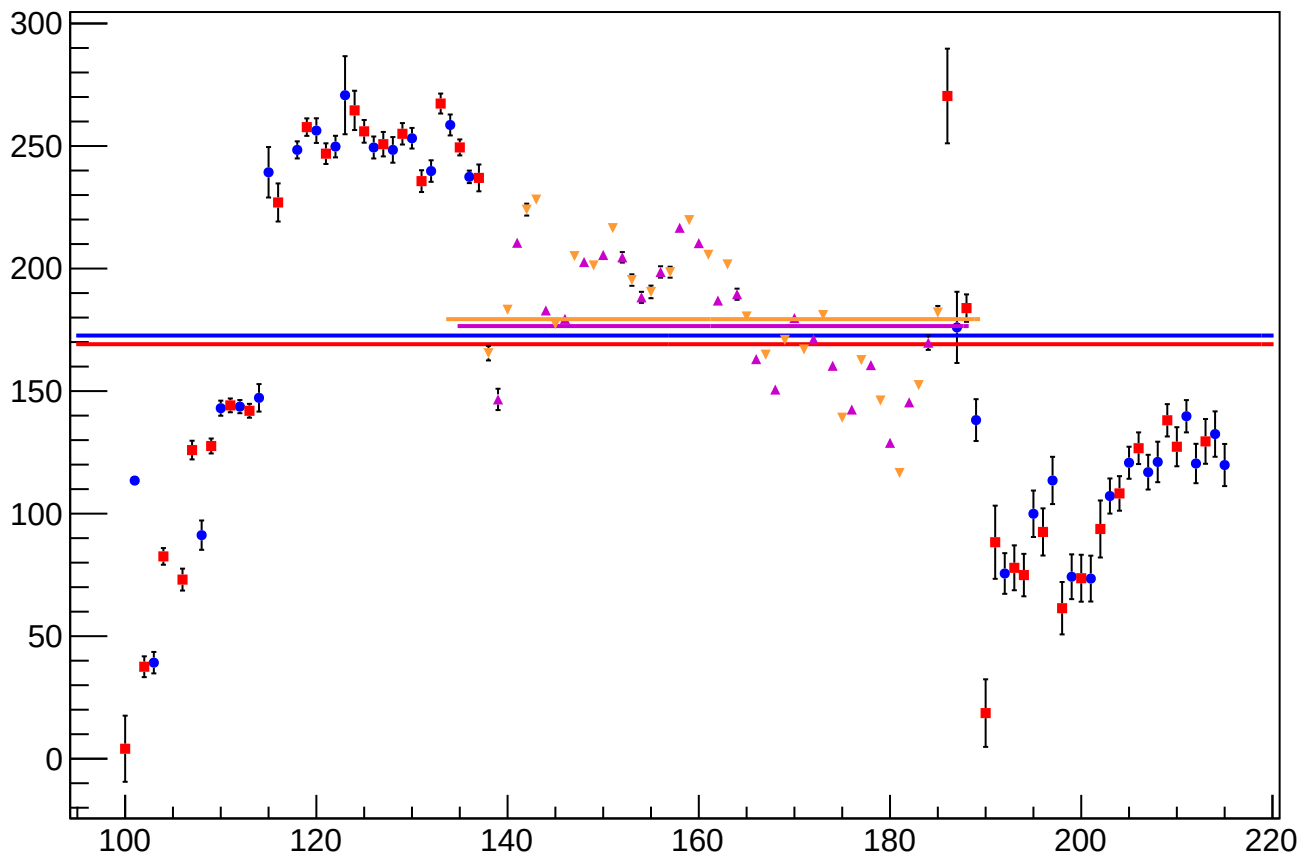
Right: -121.024 ± 0.647 χ^2/NDF : 6885.6/65

In: -90.872 ± 0.379 χ^2/NDF : 17124.9/54

Out: -92.696 ± 0.372 χ^2/NDF : 19569.0/58

All: -91.800 ± 0.265 χ^2/NDF : 36705.7/113

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 172.667 $\pm$ 0.845 χ^2 /NDF: 6304.9/31

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF:5982.2/24

Right Out: 169.130 $\pm$ 0.854 χ^2 /NDF: 7318.8/33

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF:4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

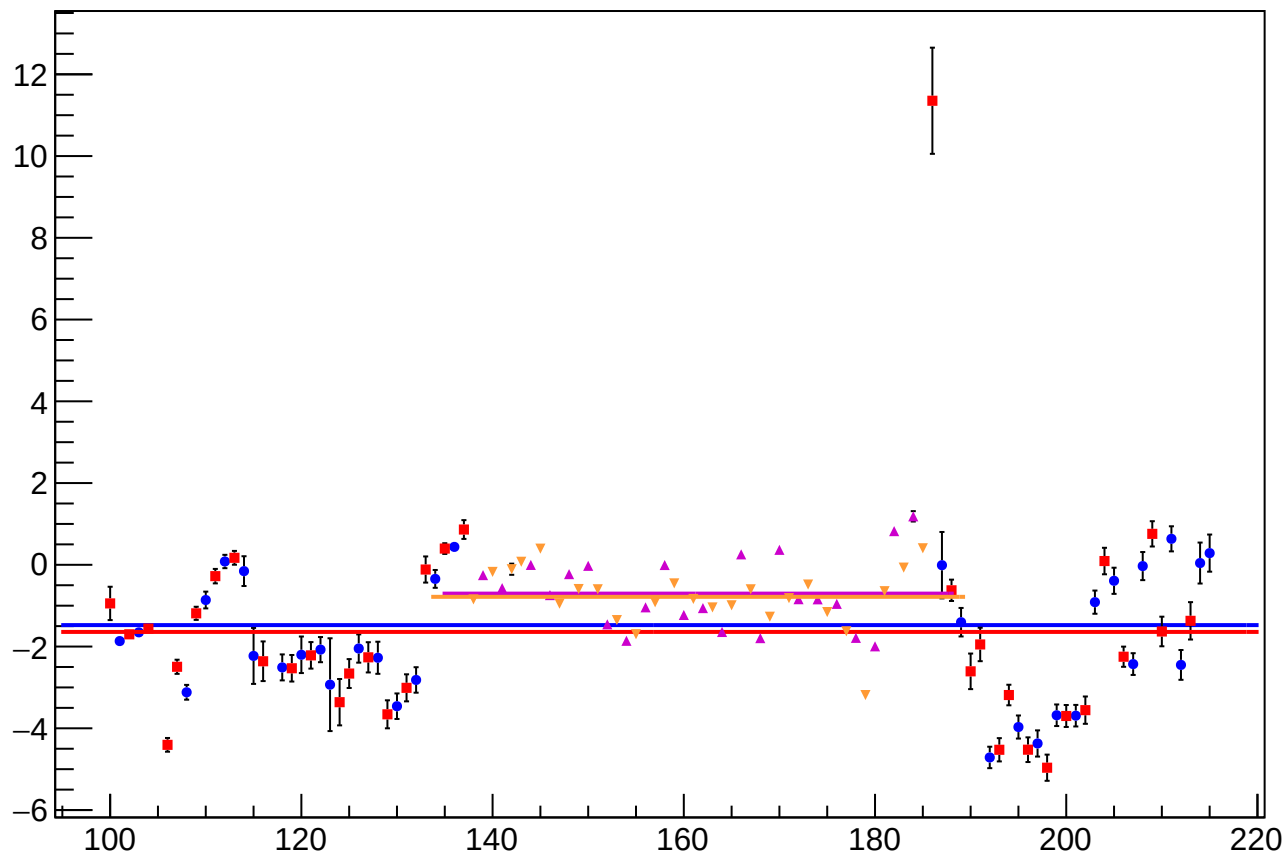
Right: 170.917 $\pm$ 0.601 χ^2 /NDF: 13632.4/65

In: 175.907 $\pm$ 0.340 χ^2 /NDF:10748.4/54

Out: 177.802 $\pm$ 0.333 χ^2 /NDF:13422.7/58

All: 176.873 $\pm$ 0.238 χ^2 /NDF: 24186.9/113

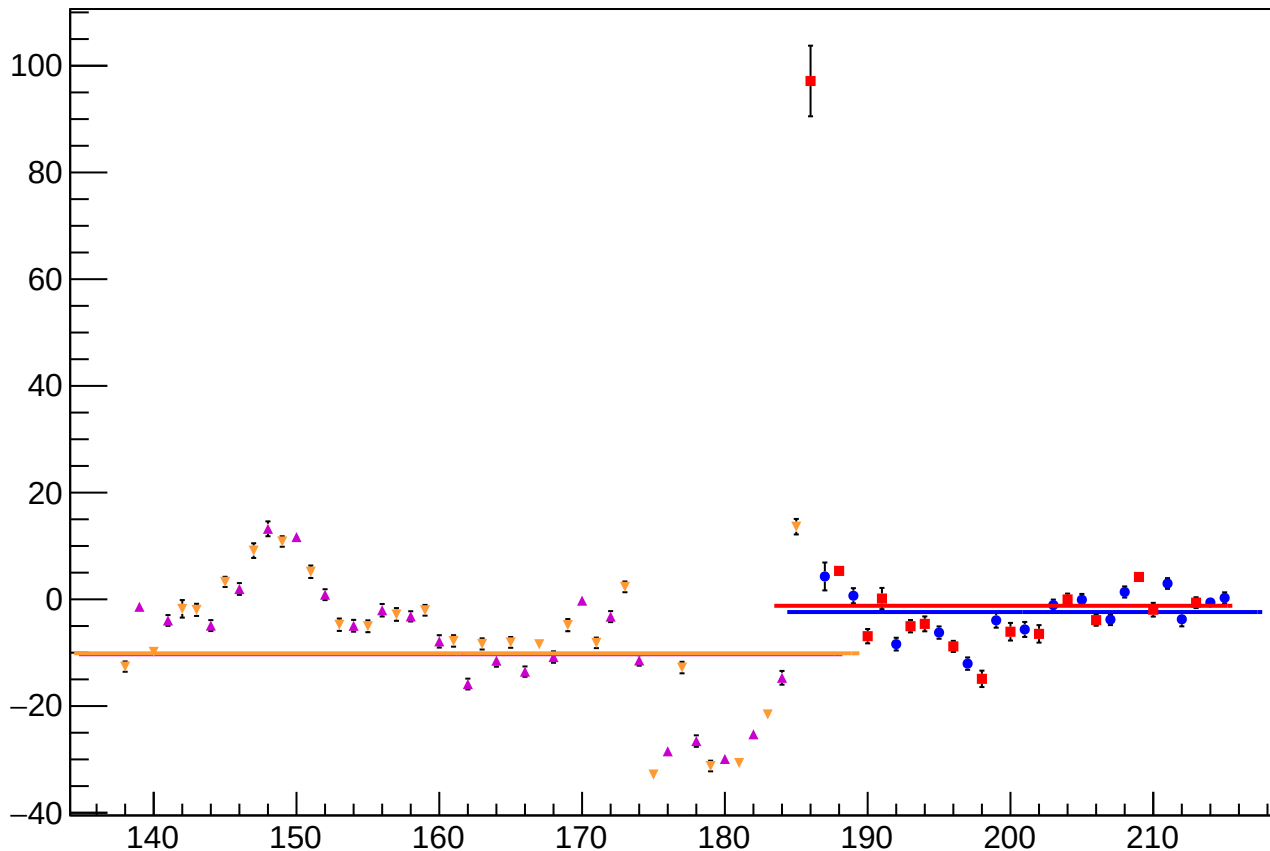
reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.475 ± 0.042 $\chi^2/\text{NDF}: 1234.5/31$
 Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$
 Right Out: -1.642 ± 0.040 $\chi^2/\text{NDF}: 1596.5/33$
 Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$
 Right: -1.562 ± 0.029 $\chi^2/\text{NDF}: 2839.4/65$
 In: -0.814 ± 0.016 $\chi^2/\text{NDF}: 3936.1/54$
 Out: -0.909 ± 0.015 $\chi^2/\text{NDF}: 3759.8/58$
 All: -0.863 ± 0.011 $\chi^2/\text{NDF}: 7714.8/113$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.381 ± 0.300 χ^2/NDF : 183.6/14

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.210 ± 0.298 χ^2/NDF : 558.5/14

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

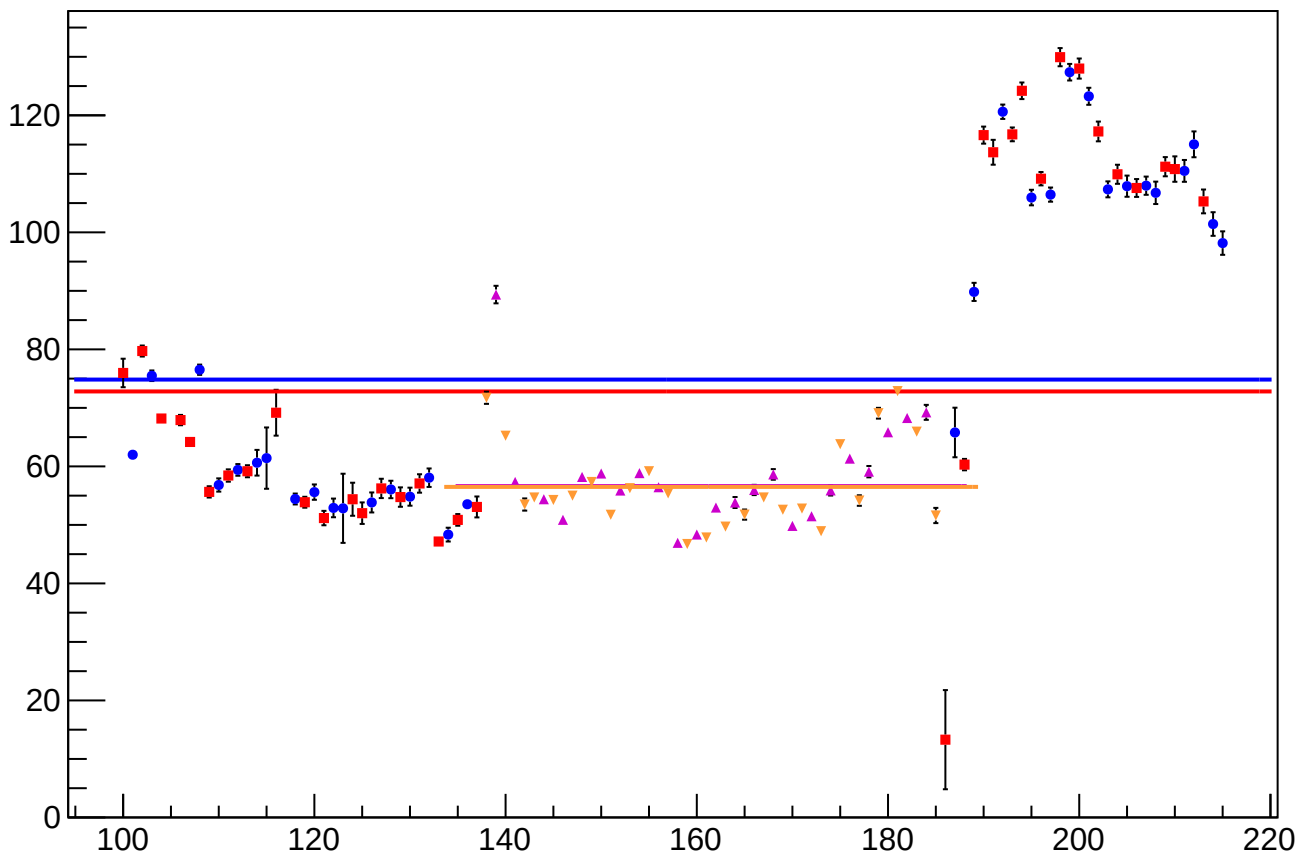
Right: -1.791 ± 0.212 χ^2/NDF : 749.7/29

In: -7.770 ± 0.170 χ^2/NDF : 4107.0/37

Out: -7.329 ± 0.167 χ^2/NDF : 5308.8/39

All: -7.546 ± 0.119 χ^2/NDF : 9419.2/77

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 74.838+/-0.222 χ^2/NDF : 11672.8/31

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 72.809+/-0.210 χ^2/NDF : 14654.2/33

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

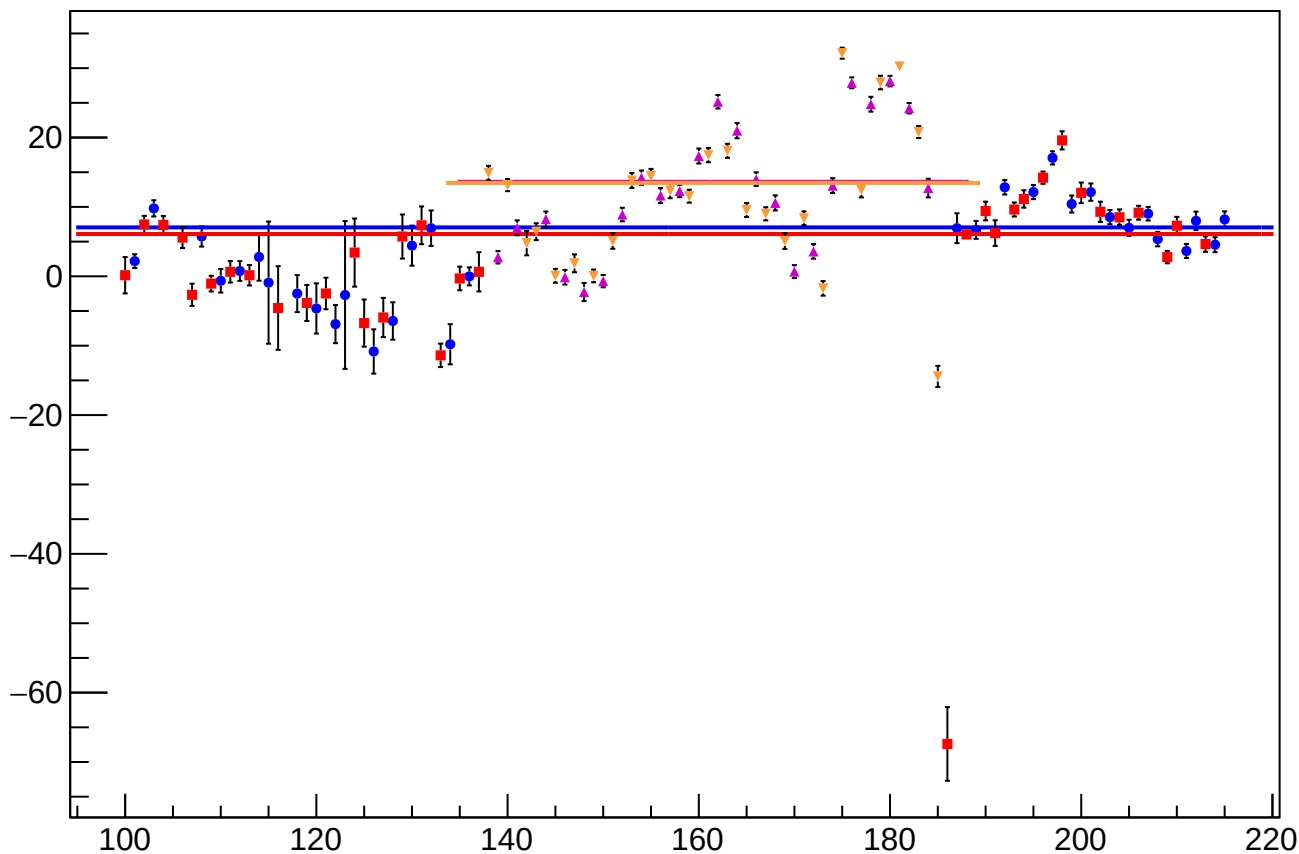
Right: 73.766+/-0.152 χ^2/NDF : 26371.1/65

In: 63.119+/-0.132 χ^2/NDF :17609.2/54

Out: 62.444+/-0.127 χ^2/NDF :20466.8/58

All: 62.767+/-0.092 χ^2/NDF : 38089.5/113

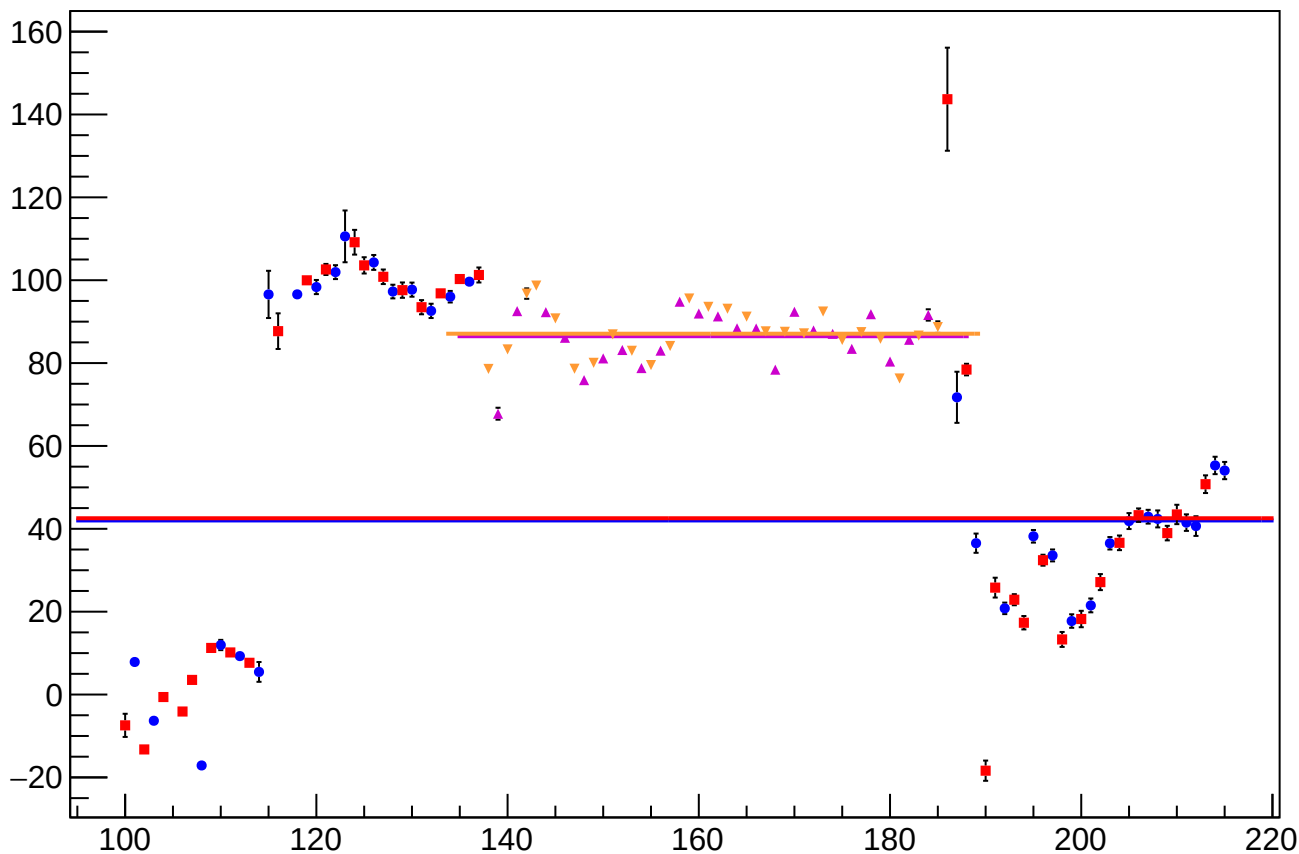
reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.049 ± 0.245 $\chi^2/\text{NDF}: 459.5/31$
 Left Out: 13.462 ± 0.202 $\chi^2/\text{NDF}: 2736.3/24$
 Right Out: 6.096 ± 0.230 $\chi^2/\text{NDF}: 763.8/33$
 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: 6.541 ± 0.168 $\chi^2/\text{NDF}: 1231.3/65$
 In: 10.925 ± 0.157 $\chi^2/\text{NDF}: 3198.5/54$
 Out: 10.256 ± 0.151 $\chi^2/\text{NDF}: 4081.7/58$
 All: 10.578 ± 0.109 $\chi^2/\text{NDF}: 7289.7/113$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.018 ± 0.255 $\chi^2/\text{NDF}: 25547.0/31$

Left Out: 87.087 ± 0.179 $\chi^2/\text{NDF}: 1085.8/24$

Right Out: 42.547 ± 0.246 $\chi^2/\text{NDF}: 30776.2/33$

Left In: 86.482 ± 0.185 $\chi^2/\text{NDF}: 1003.2/22$

Left: 86.794 ± 0.129 $\chi^2/\text{NDF}: 2094.5/47$

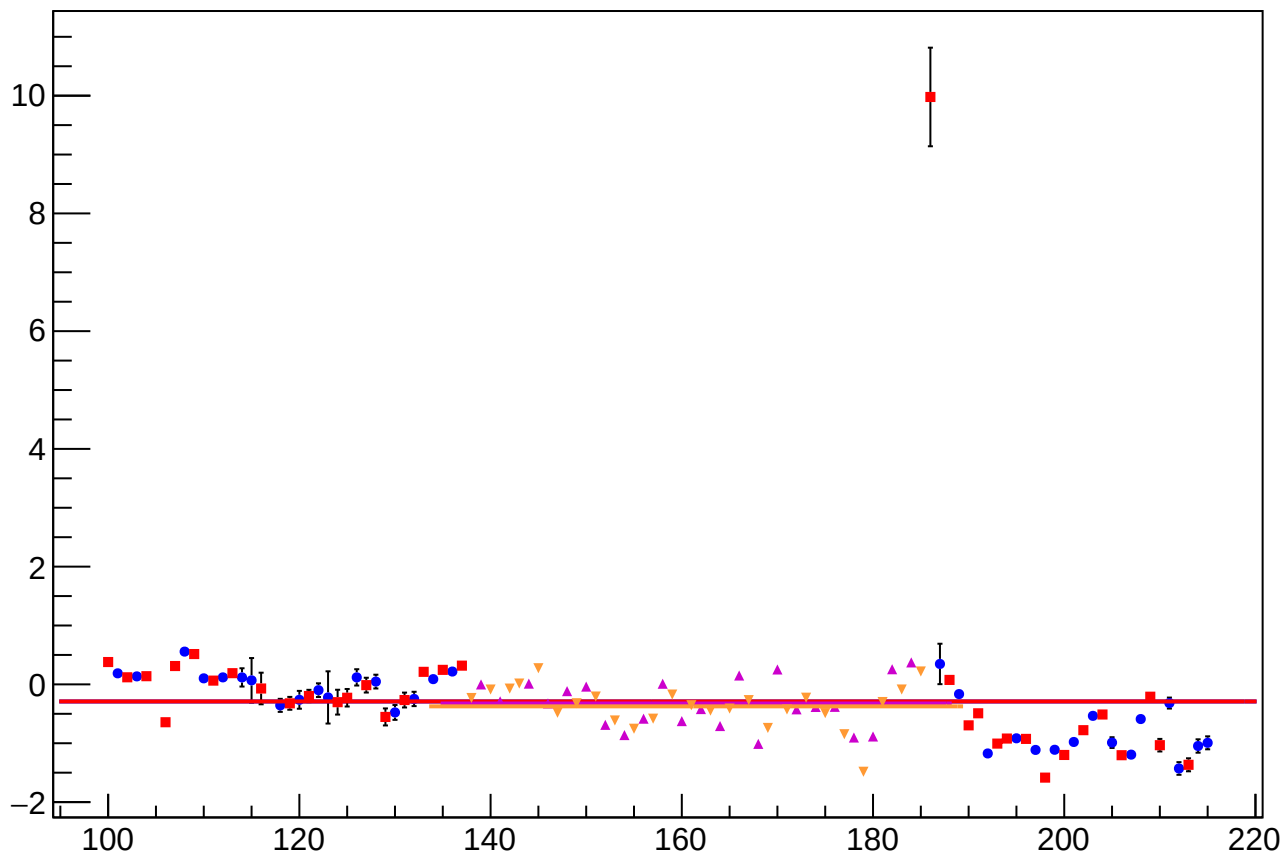
Right: 42.292 ± 0.177 $\chi^2/\text{NDF}: 56325.5/65$

In: 71.226 ± 0.150 $\chi^2/\text{NDF}: 46452.9/54$

Out: 71.651 ± 0.145 $\chi^2/\text{NDF}: 53300.8/58$

All: 71.446 ± 0.104 $\chi^2/\text{NDF}: 99757.8/113$

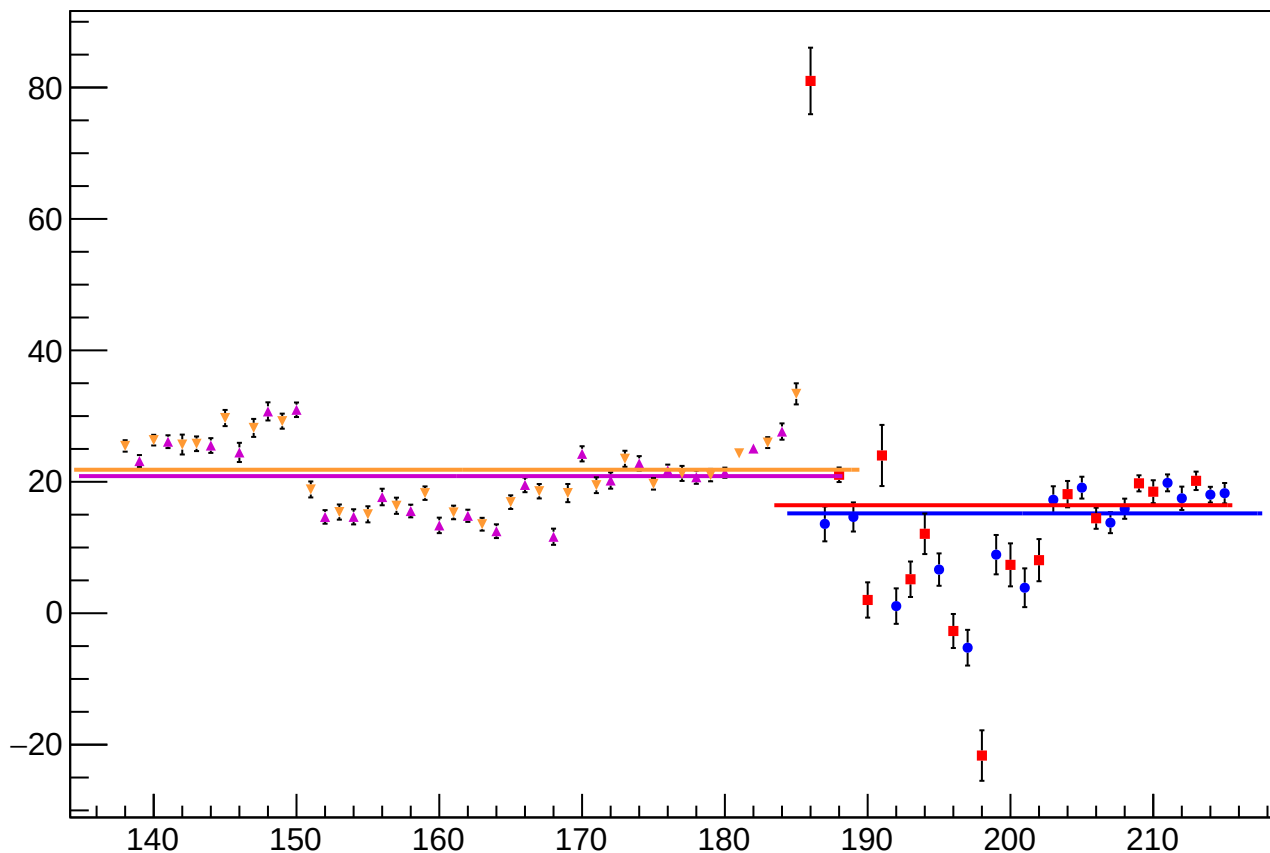
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.291 ± 0.011 χ^2/NDF : 3395.8/31
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.290 ± 0.010 χ^2/NDF : 3703.8/33
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.290 ± 0.007 χ^2/NDF : 7099.6/65
 In: -0.312 ± 0.006 χ^2/NDF : 5686.6/54
 Out: -0.340 ± 0.006 χ^2/NDF : 5414.5/58
 All: -0.327 ± 0.005 χ^2/NDF : 11110.6/113

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.194 $\pm$ 0.473 χ^2 /NDF: 147.4/14

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 16.435 $\pm$ 0.511 χ^2 /NDF: 416.6/14

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

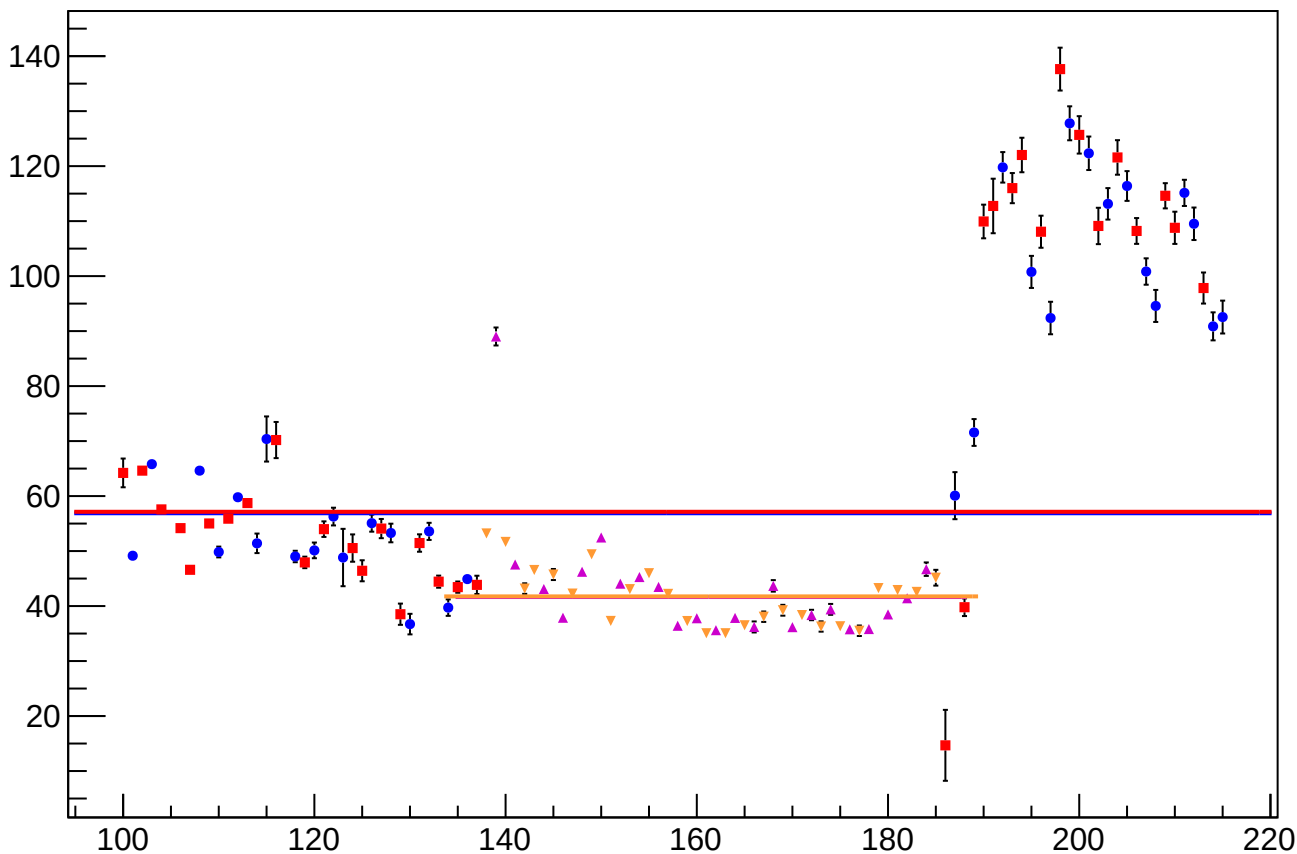
Right: 15.768 $\pm$ 0.347 χ^2 /NDF: 567.2/29

In: 19.884 $\pm$ 0.197 χ^2 /NDF: 843.0/37

Out: 21.056 $\pm$ 0.194 χ^2 /NDF: 1036.7/39

All: 20.479 $\pm$ 0.138 χ^2 /NDF: 1897.6/77

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.877 $\pm$ 0.203 χ^2 /NDF: 6058.9/31

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 57.144 $\pm$ 0.217 χ^2 /NDF: 6059.5/33

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

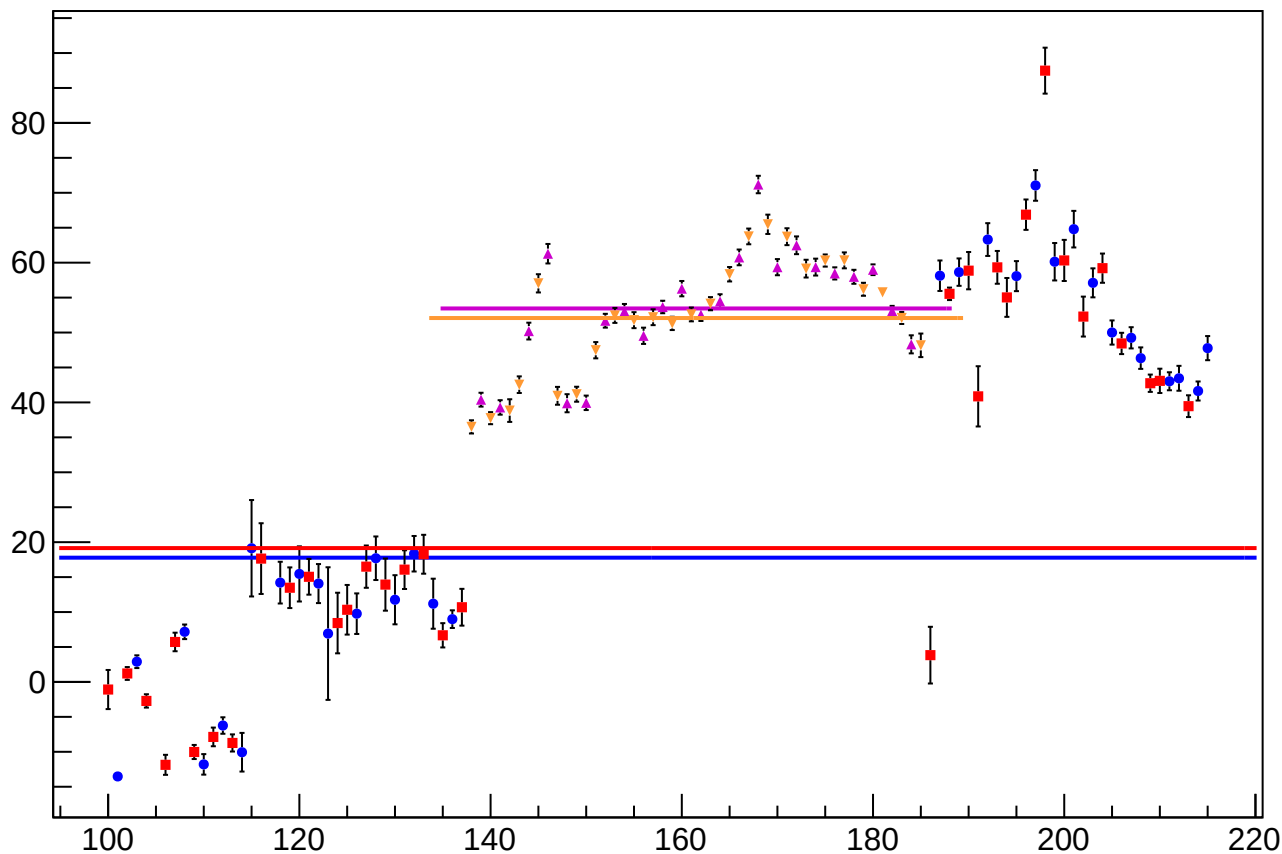
Right: 57.002 $\pm$ 0.148 χ^2 /NDF: 12119.2/65

In: 48.099 $\pm$ 0.132 χ^2 /NDF:10927.0/54

Out: 47.421 $\pm$ 0.131 χ^2 /NDF:10262.6/58

All: 47.759 $\pm$ 0.093 χ^2 /NDF: 21202.9/113

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.781 $\pm$ 0.287 χ^2 /NDF: 9246.2/31

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 19.153 $\pm$ 0.296 χ^2 /NDF: 8458.0/33

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

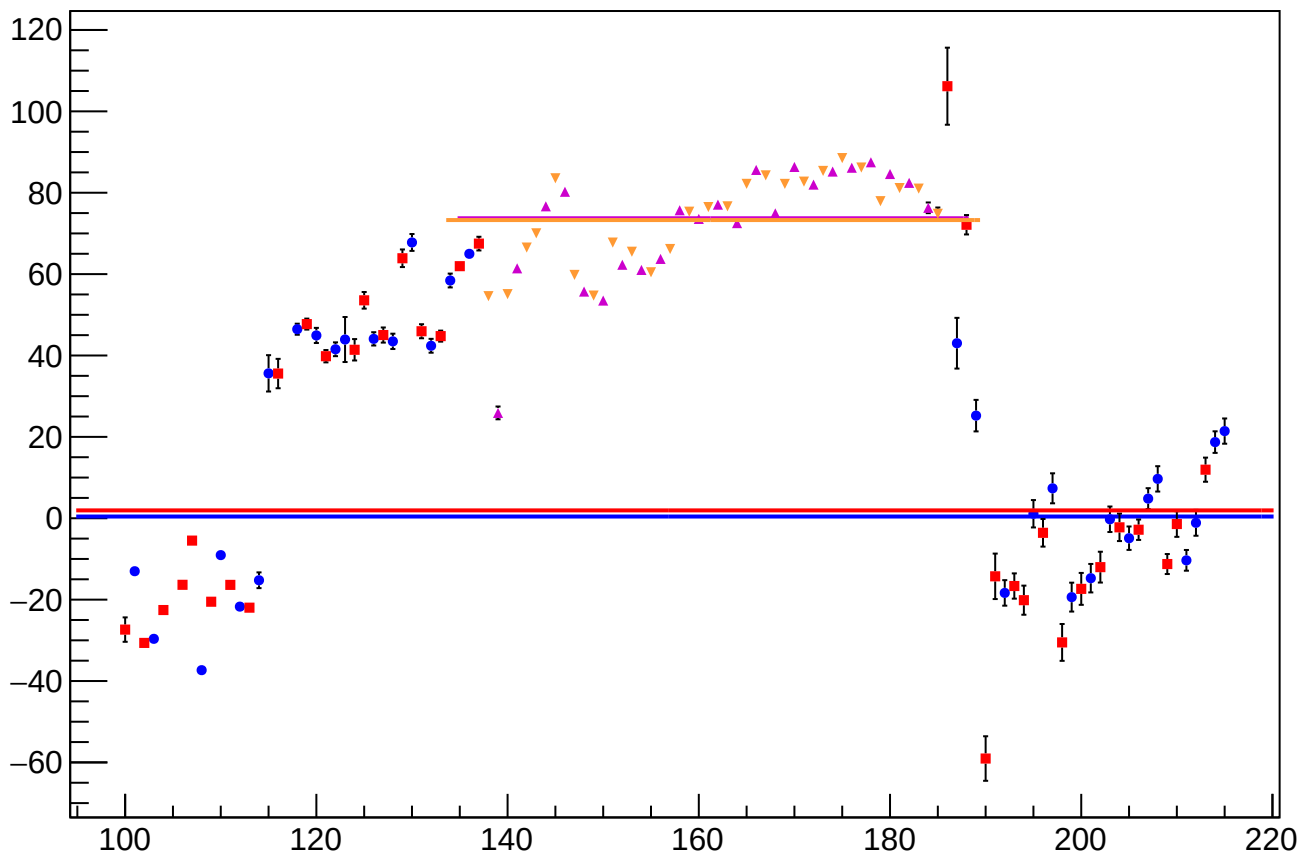
Right: 18.448 $\pm$ 0.206 χ^2 /NDF: 17715.3/65

In: 40.628 $\pm$ 0.172 χ^2 /NDF:20273.7/54

Out: 41.034 $\pm$ 0.171 χ^2 /NDF:18152.0/58

All: 40.832 $\pm$ 0.121 χ^2 /NDF: 38428.5/113

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.427 ± 0.237 χ^2/NDF : 18524.2/31

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 1.935 ± 0.255 χ^2/NDF : 16746.8/33

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

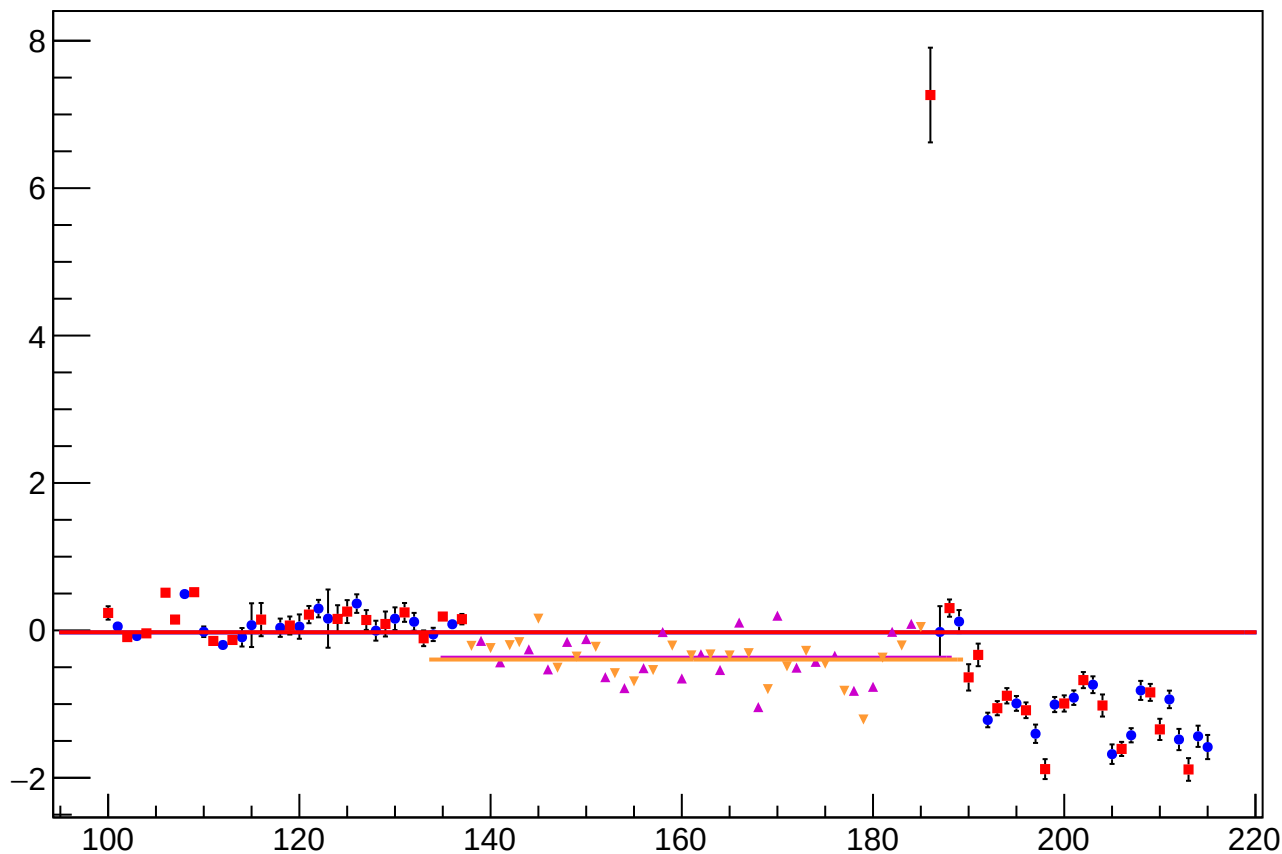
Right: 1.126 ± 0.174 χ^2/NDF : 35289.7/65

In: 44.263 ± 0.150 χ^2/NDF : 79495.3/54

Out: 48.355 ± 0.151 χ^2/NDF : 70838.8/58

All: 46.303 ± 0.106 χ^2/NDF : 150703.8/113

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.028 ± 0.010 χ^2/NDF : 1860.7/31

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.025 ± 0.010 χ^2/NDF : 1829.3/33

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

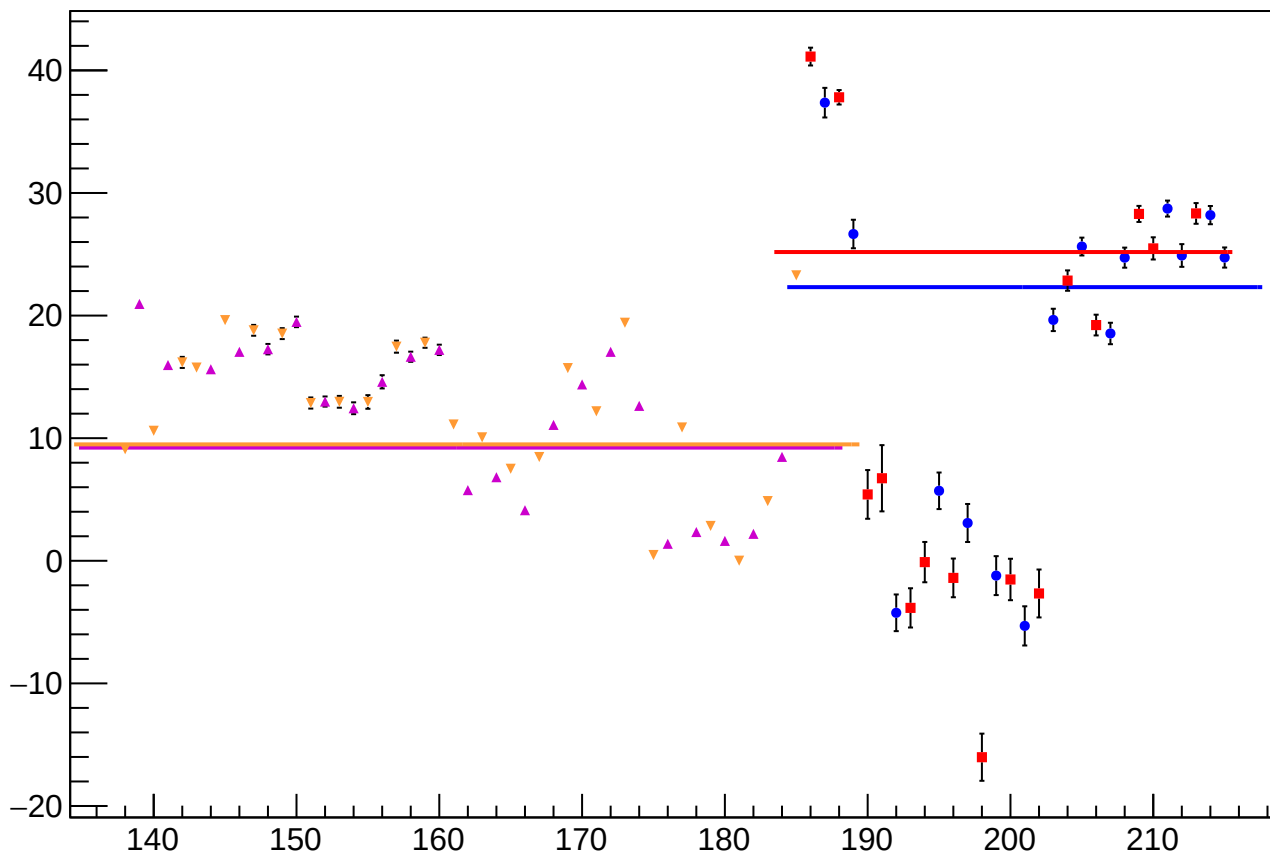
Right: -0.027 ± 0.007 χ^2/NDF : 3690.1/65

In: -0.230 ± 0.007 χ^2/NDF : 3811.7/54

Out: -0.247 ± 0.007 χ^2/NDF : 3534.8/58

All: -0.238 ± 0.005 χ^2/NDF : 7349.7/113

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.320 ± 0.248 $\chi^2/\text{NDF}: 1512.8/14$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 25.183 ± 0.258 $\chi^2/\text{NDF}: 2937.6/14$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

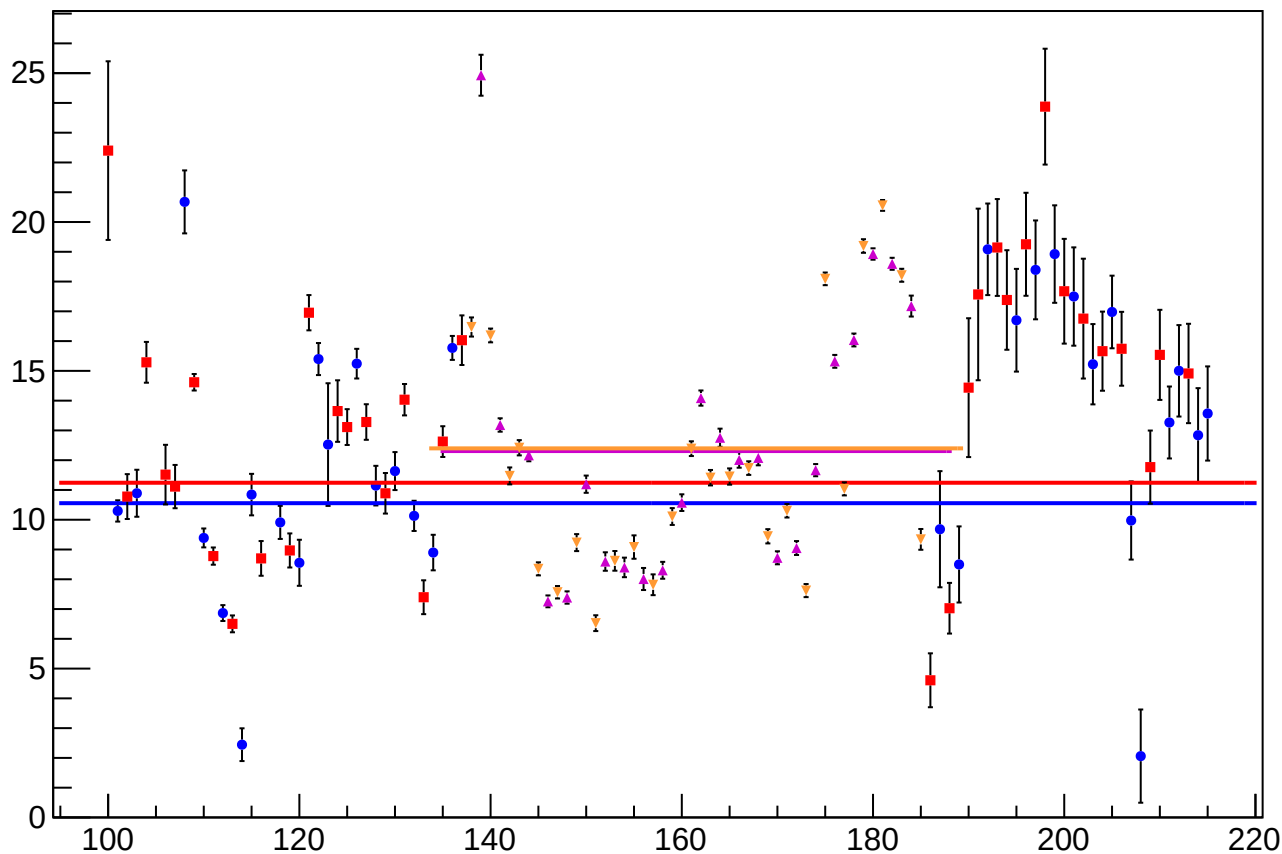
Right: 23.695 ± 0.179 $\chi^2/\text{NDF}: 4514.2/29$

In: 10.024 ± 0.061 $\chi^2/\text{NDF}: 14861.2/37$

Out: 10.330 ± 0.060 $\chi^2/\text{NDF}: 19039.5/39$

All: 10.181 ± 0.043 $\chi^2/\text{NDF}: 33913.5/77$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.556 $\pm$ 0.114 χ^2 /NDF: 1073.6/31

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.242 $\pm$ 0.111 χ^2 /NDF: 1062.1/33

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

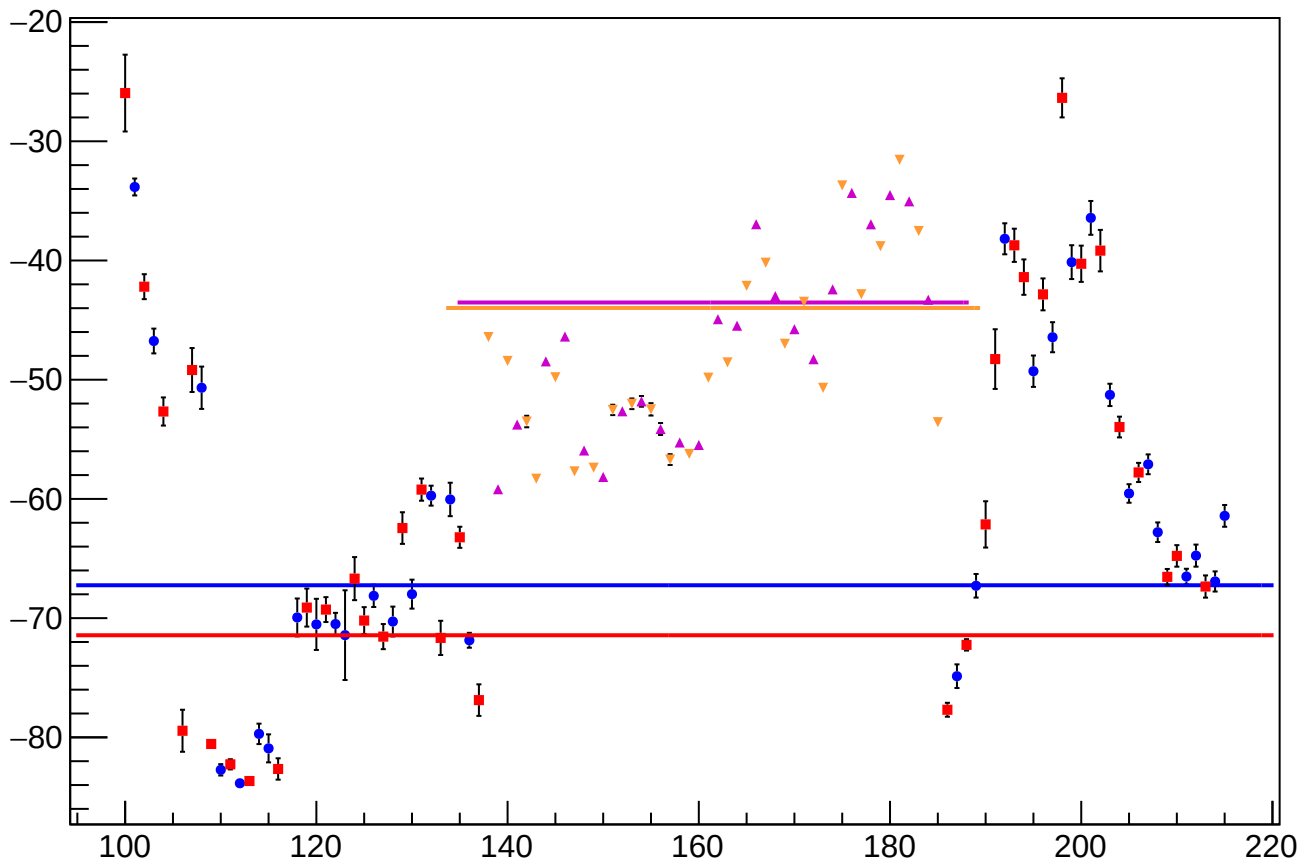
Right: 10.909 $\pm$ 0.080 χ^2 /NDF: 2154.2/65

In: 12.014 $\pm$ 0.047 χ^2 /NDF: 6871.1/54

Out: 12.204 $\pm$ 0.045 χ^2 /NDF: 8695.0/58

All: 12.112 $\pm$ 0.033 χ^2 /NDF: 15574.7/113

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.242 ± 0.154 $\chi^2/\text{NDF}: 8657.6/31$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -71.436 ± 0.144 $\chi^2/\text{NDF}: 8083.5/33$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

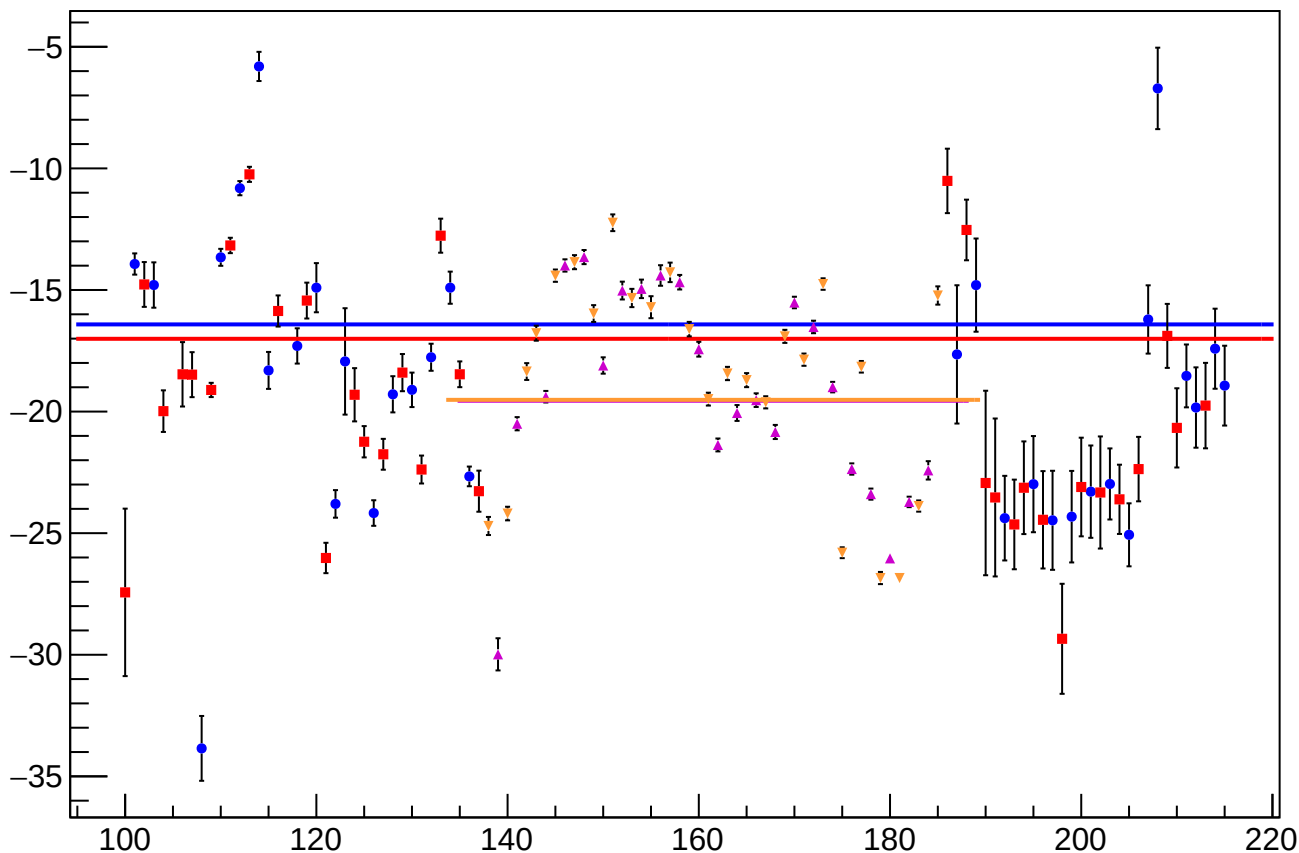
Right: -69.486 ± 0.105 $\chi^2/\text{NDF}: 17136.8/65$

In: -46.945 ± 0.059 $\chi^2/\text{NDF}: 44169.7/54$

Out: -48.280 ± 0.057 $\chi^2/\text{NDF}: 56581.5/58$

All: -47.632 ± 0.041 $\chi^2/\text{NDF}: 101018.3/113$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.415 ± 0.127 $\chi^2/\text{NDF}: 1814.2/31$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.007 ± 0.123 $\chi^2/\text{NDF}: 1390.7/33$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

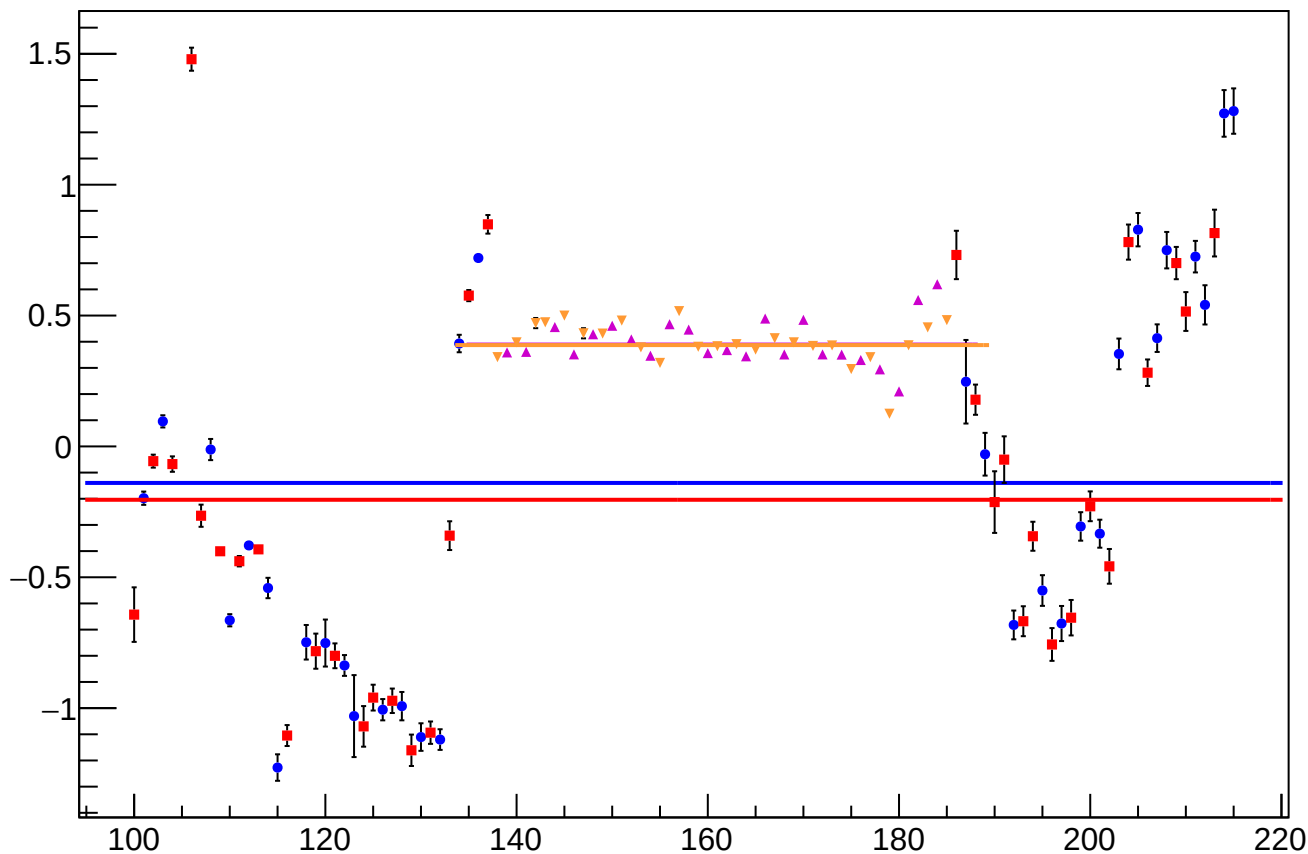
Right: -16.720 ± 0.088 $\chi^2/\text{NDF}: 3216.1/65$

In: -19.023 ± 0.052 $\chi^2/\text{NDF}: 6633.6/54$

Out: -19.090 ± 0.051 $\chi^2/\text{NDF}: 8253.5/58$

All: -19.057 ± 0.036 $\chi^2/\text{NDF}: 14888.0/113$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.140 ± 0.007 $\chi^2/\text{NDF}: 7994.0/31$

Left Out: 0.387 ± 0.003 $\chi^2/\text{NDF}: 995.0/24$

Right Out: -0.204 ± 0.007 $\chi^2/\text{NDF}: 7304.0/33$

Left In: 0.389 ± 0.003 $\chi^2/\text{NDF}: 1256.9/22$

Left: 0.388 ± 0.002 $\chi^2/\text{NDF}: 2252.2/47$

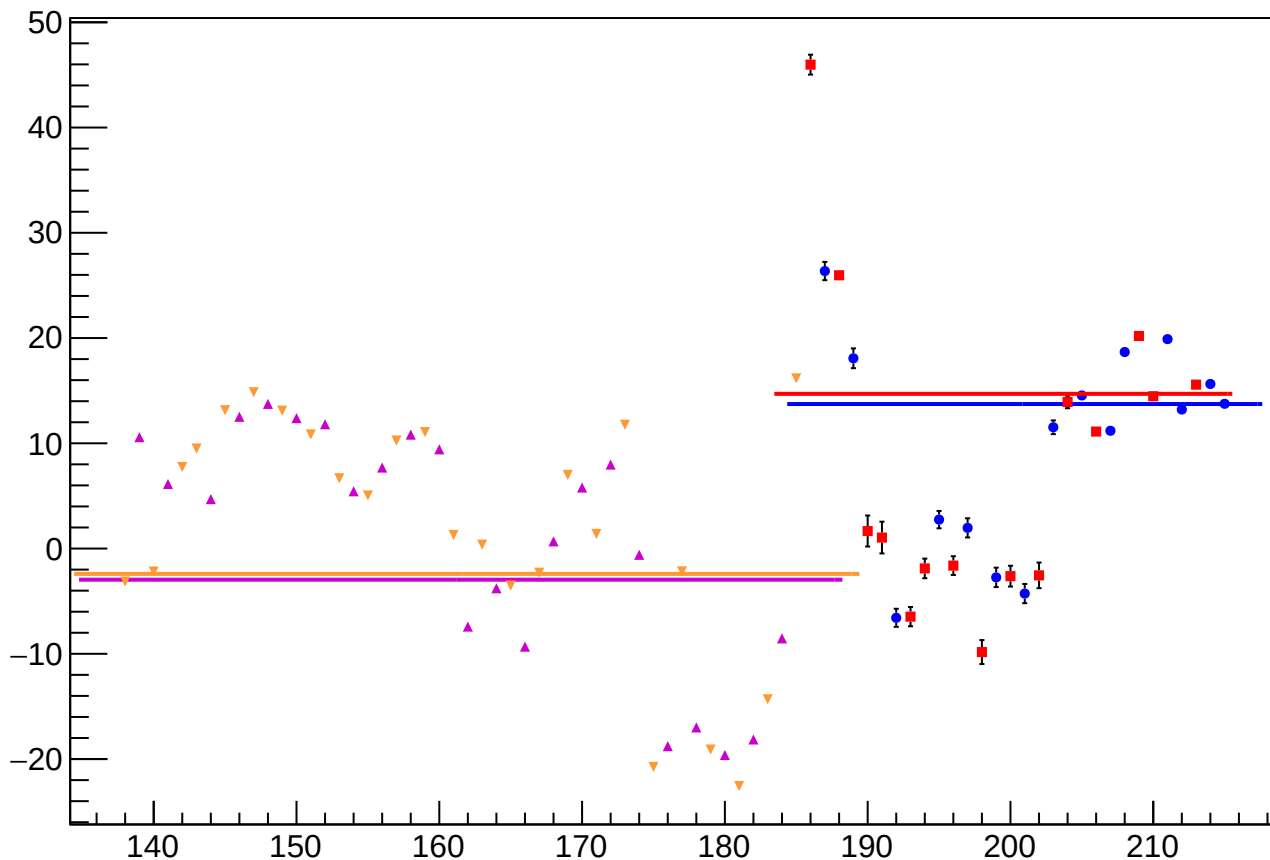
Right: -0.173 ± 0.005 $\chi^2/\text{NDF}: 15343.3/65$

In: 0.322 ± 0.002 $\chi^2/\text{NDF}: 14390.7/54$

Out: 0.310 ± 0.002 $\chi^2/\text{NDF}: 15231.9/58$

All: 0.316 ± 0.002 $\chi^2/\text{NDF}: 29635.1/113$

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.731 ± 0.138 $\chi^2/\text{NDF}: 2374.3/14$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.700 ± 0.158 $\chi^2/\text{NDF}: 4430.2/14$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

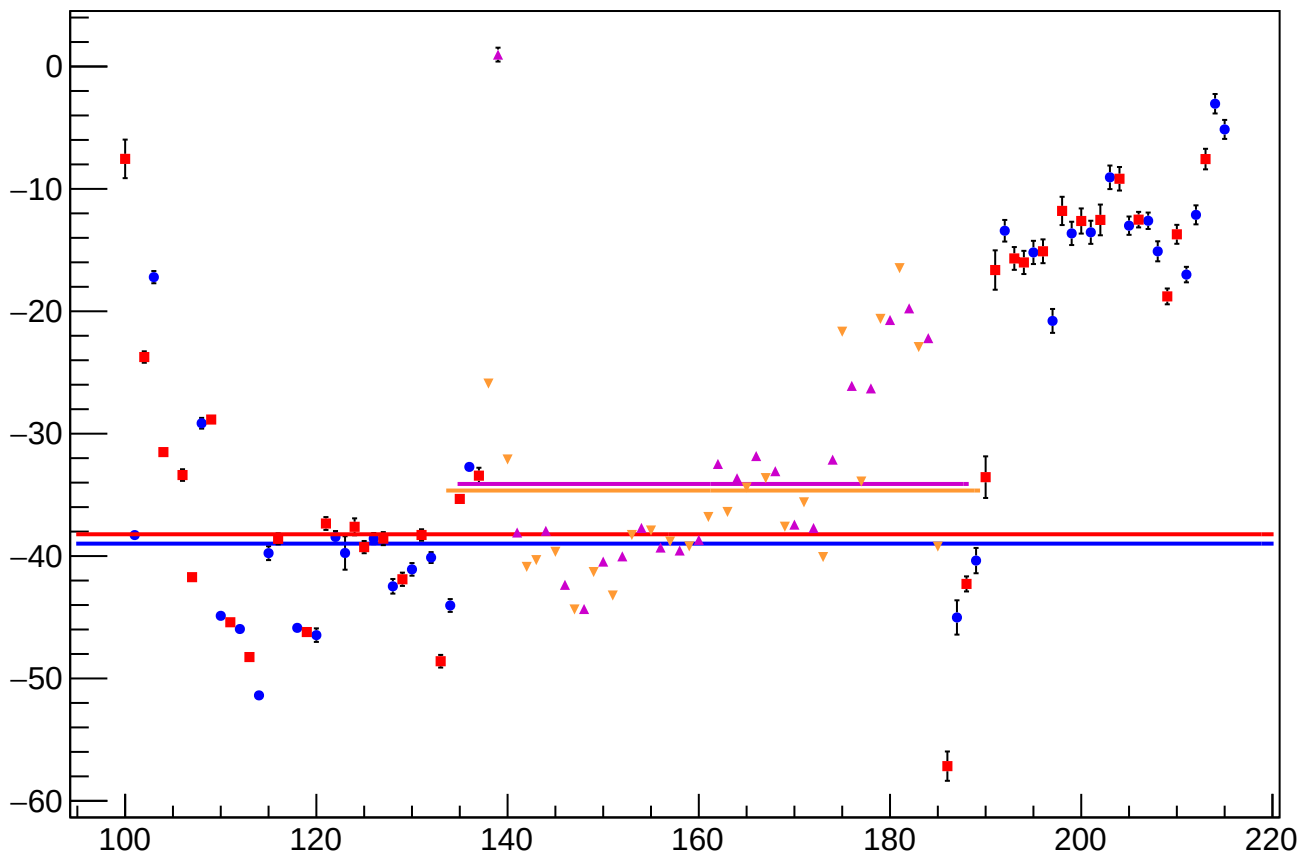
Right: 14.150 ± 0.104 $\chi^2/\text{NDF}: 6826.0/29$

In: -0.672 ± 0.051 $\chi^2/\text{NDF}: 60982.9/37$

Out: -0.681 ± 0.050 $\chi^2/\text{NDF}: 71397.4/39$

All: -0.677 ± 0.036 $\chi^2/\text{NDF}: 132380.3/77$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.984 ± 0.074 $\chi^2/\text{NDF}: 22366.3/31$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.219 ± 0.069 $\chi^2/\text{NDF}: 21495.1/33$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

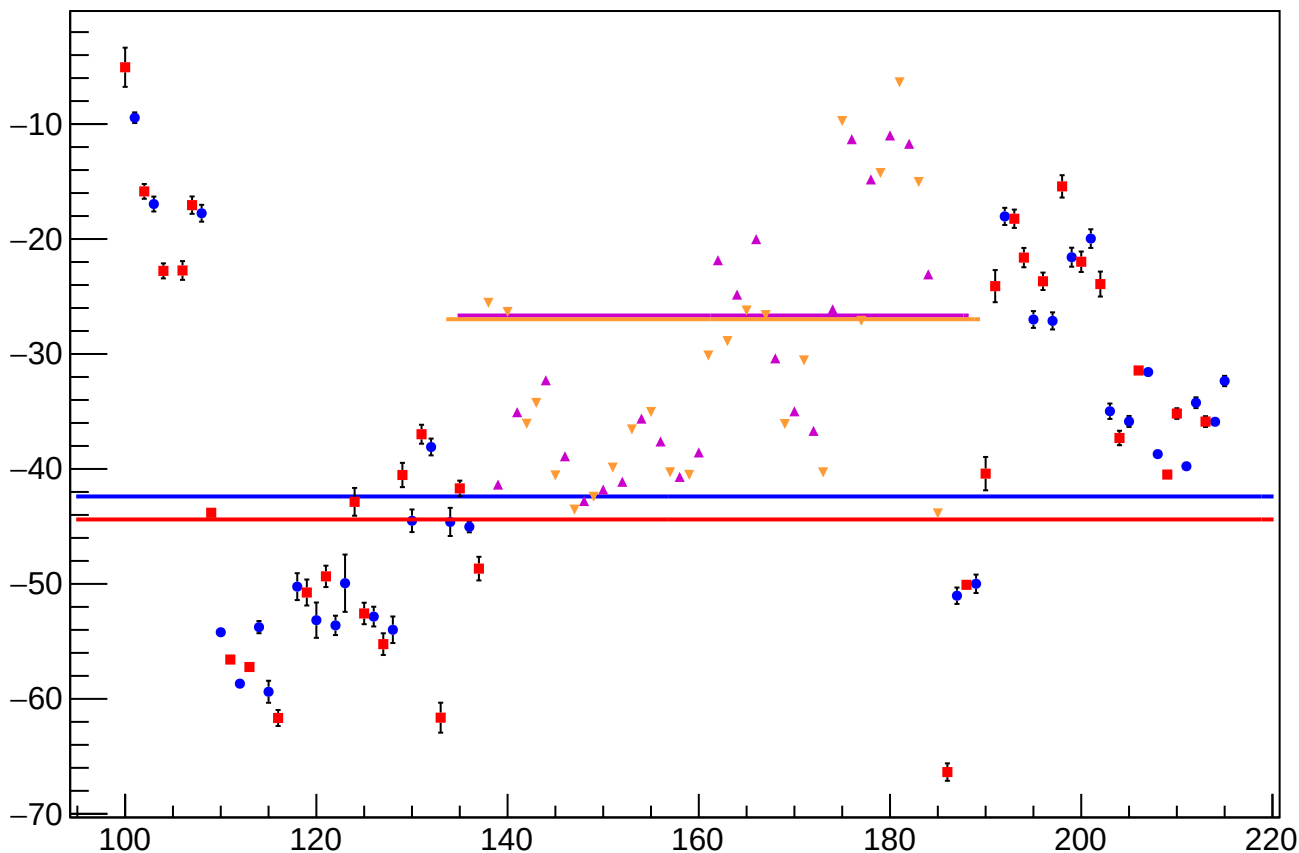
Right: -38.579 ± 0.051 $\chi^2/\text{NDF}: 43918.6/65$

In: -35.391 ± 0.038 $\chi^2/\text{NDF}: 54655.7/54$

Out: -35.595 ± 0.036 $\chi^2/\text{NDF}: 58113.8/58$

All: -35.499 ± 0.026 $\chi^2/\text{NDF}: 112784.9/113$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.393 ± 0.092 $\chi^2/\text{NDF}: 22932.3/31$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -44.394 ± 0.087 $\chi^2/\text{NDF}: 20659.0/33$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

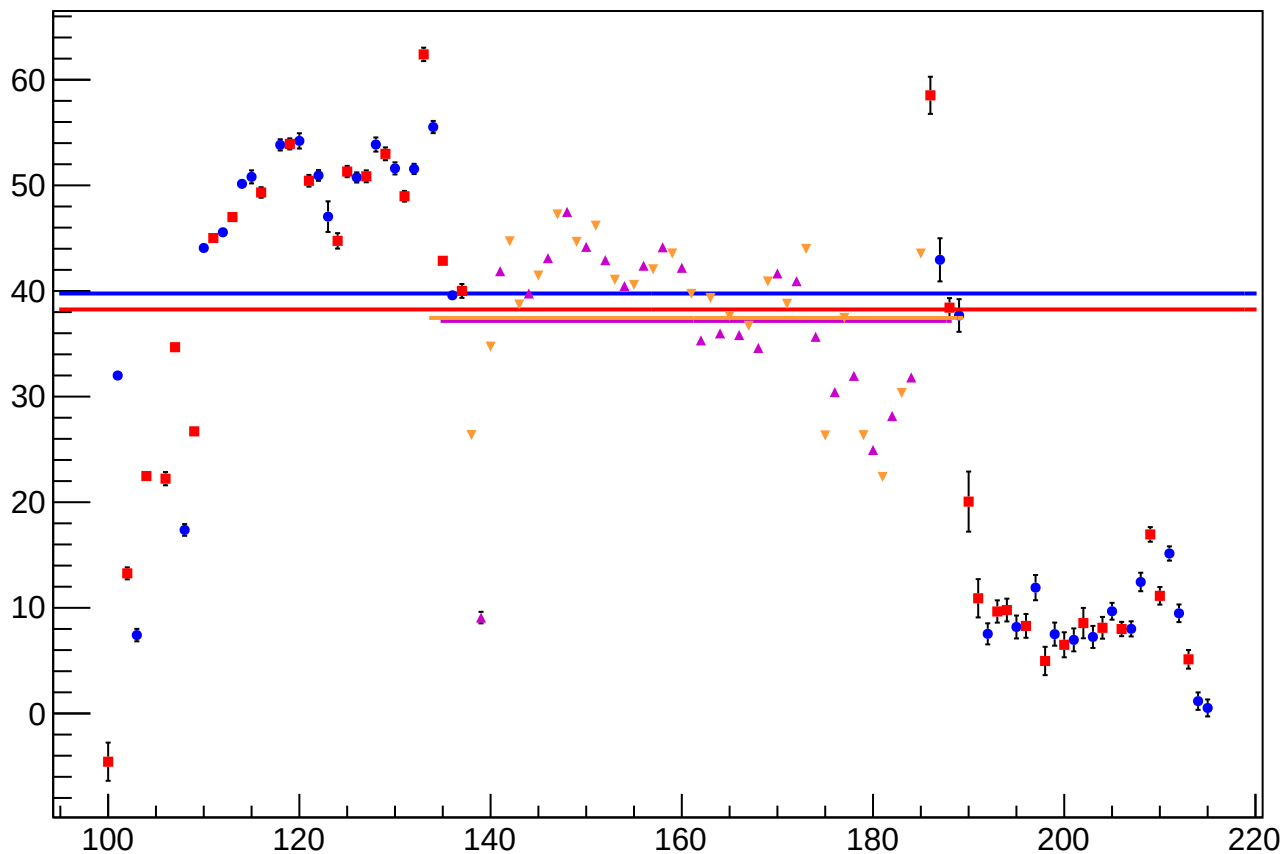
Right: -43.452 ± 0.063 $\chi^2/\text{NDF}: 43839.6/65$

In: -30.769 ± 0.047 $\chi^2/\text{NDF}: 86502.4/54$

Out: -31.707 ± 0.045 $\chi^2/\text{NDF}: 99131.7/58$

All: -31.256 ± 0.033 $\chi^2/\text{NDF}: 185839.0/113$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.762 $\pm$ 0.082 χ^2 /NDF: 29359.2/31

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 38.252 $\pm$ 0.077 χ^2 /NDF: 28937.3/33

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF: 17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

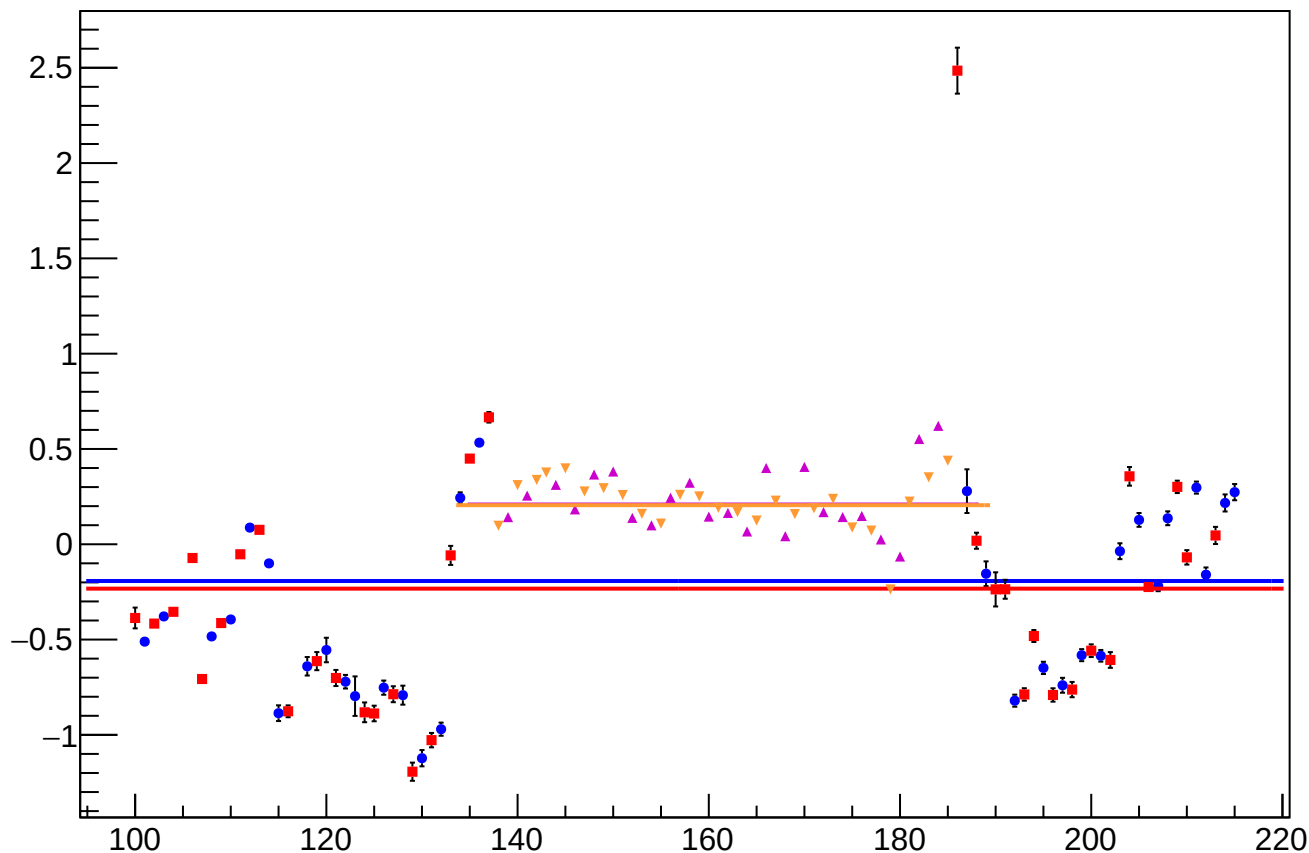
Right: 38.959 $\pm$ 0.056 χ^2 /NDF: 58477.7/65

In: 37.859 $\pm$ 0.042 χ^2 /NDF: 47333.1/54

Out: 37.667 $\pm$ 0.040 χ^2 /NDF: 50587.7/58

All: 37.758 $\pm$ 0.029 χ^2 /NDF: 97931.6/113

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.193 ± 0.004 χ^2/NDF : 9109.8/31

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.233 ± 0.004 χ^2/NDF : 9397.6/33

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

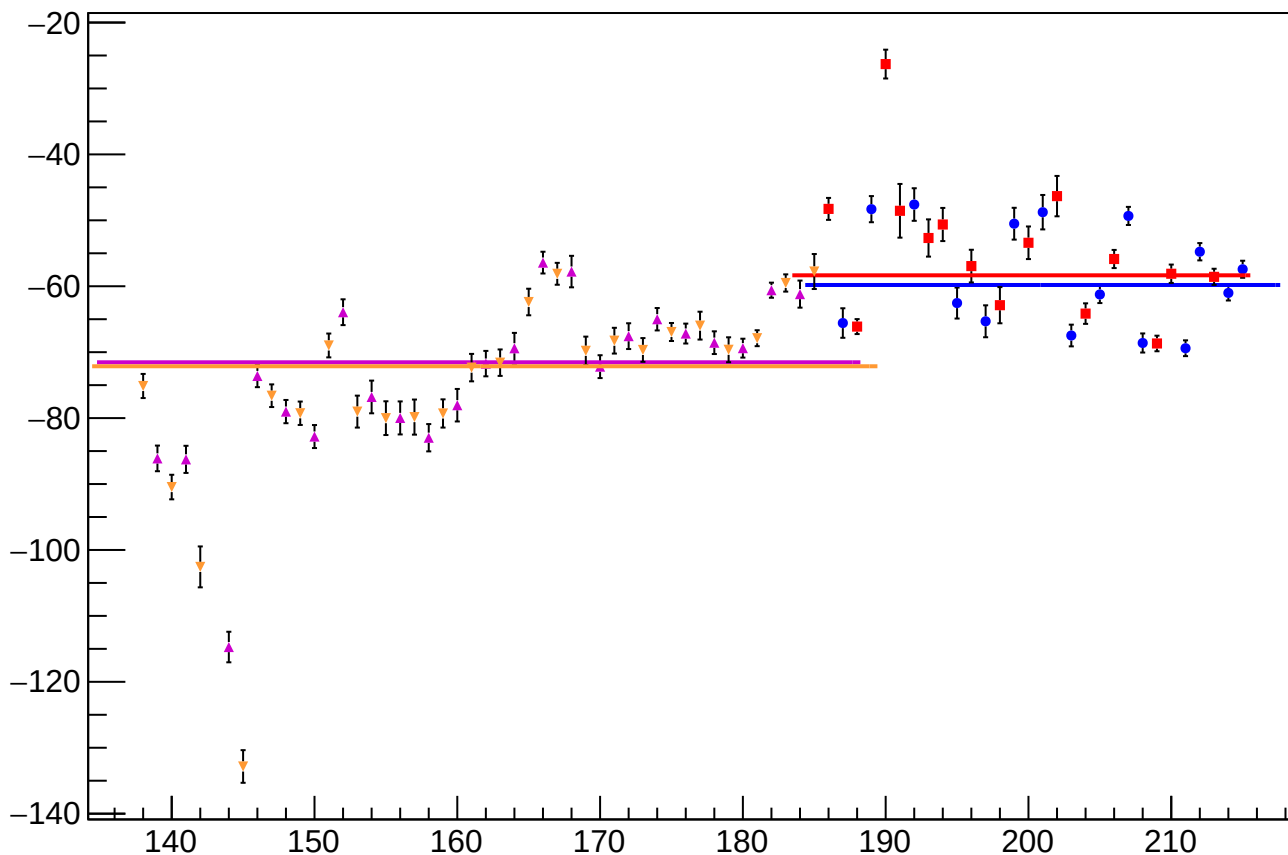
Right: -0.215 ± 0.003 χ^2/NDF : 18554.1/65

In: 0.123 ± 0.002 χ^2/NDF : 21017.5/54

Out: 0.103 ± 0.002 χ^2/NDF : 22649.2/58

All: 0.113 ± 0.001 χ^2/NDF : 43716.9/113

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.808 ± 0.412 χ^2/NDF : 305.4/14

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -58.340 ± 0.443 χ^2/NDF : 433.7/14

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

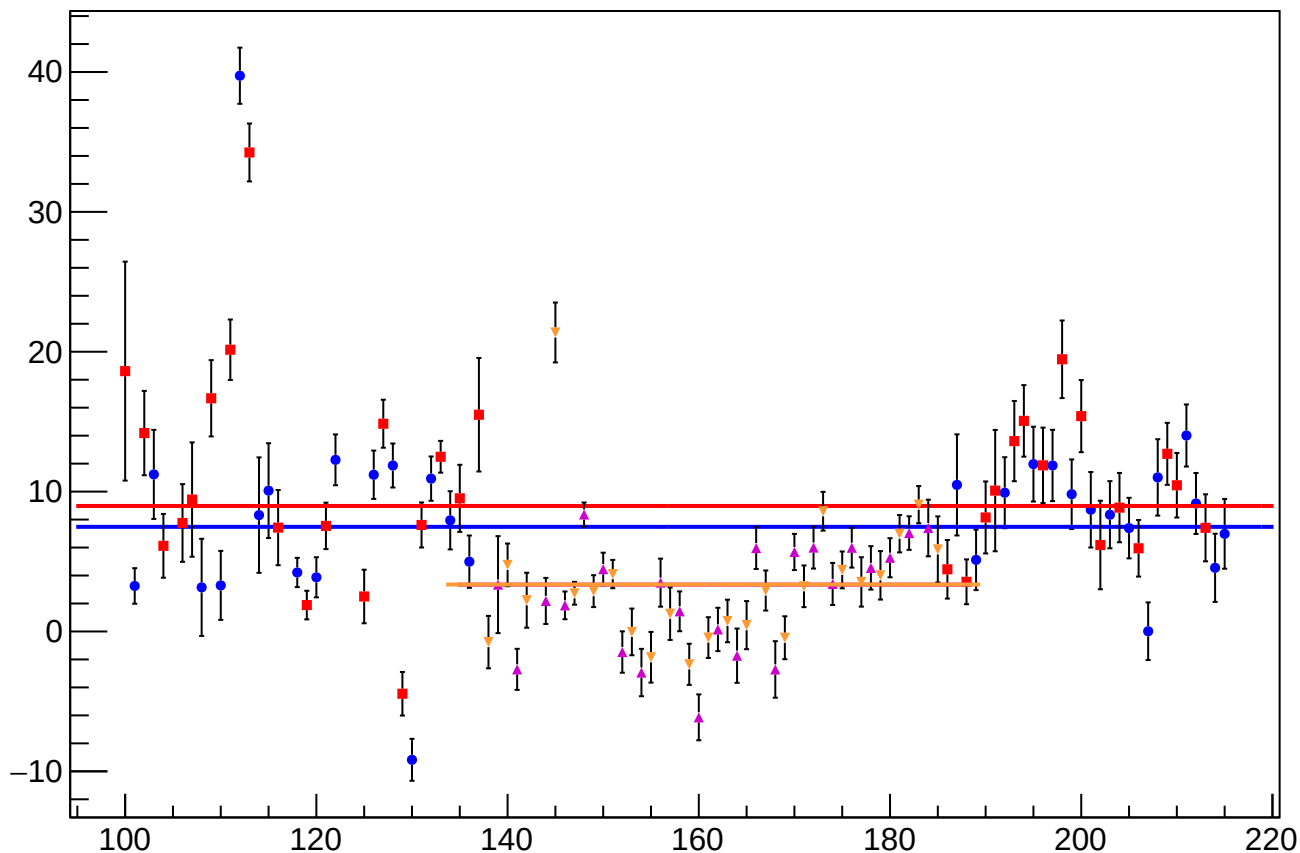
Right: -59.127 ± 0.302 χ^2/NDF : 745.0/29

In: -66.120 ± 0.280 χ^2/NDF : 1592.6/37

Out: -66.241 ± 0.290 χ^2/NDF : 2110.2/38

All: -66.178 ± 0.201 χ^2/NDF : 3702.9/76

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.480 ± 0.360 $\chi^2/\text{NDF}: 476.5/30$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.973 ± 0.364 $\chi^2/\text{NDF}: 402.7/32$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

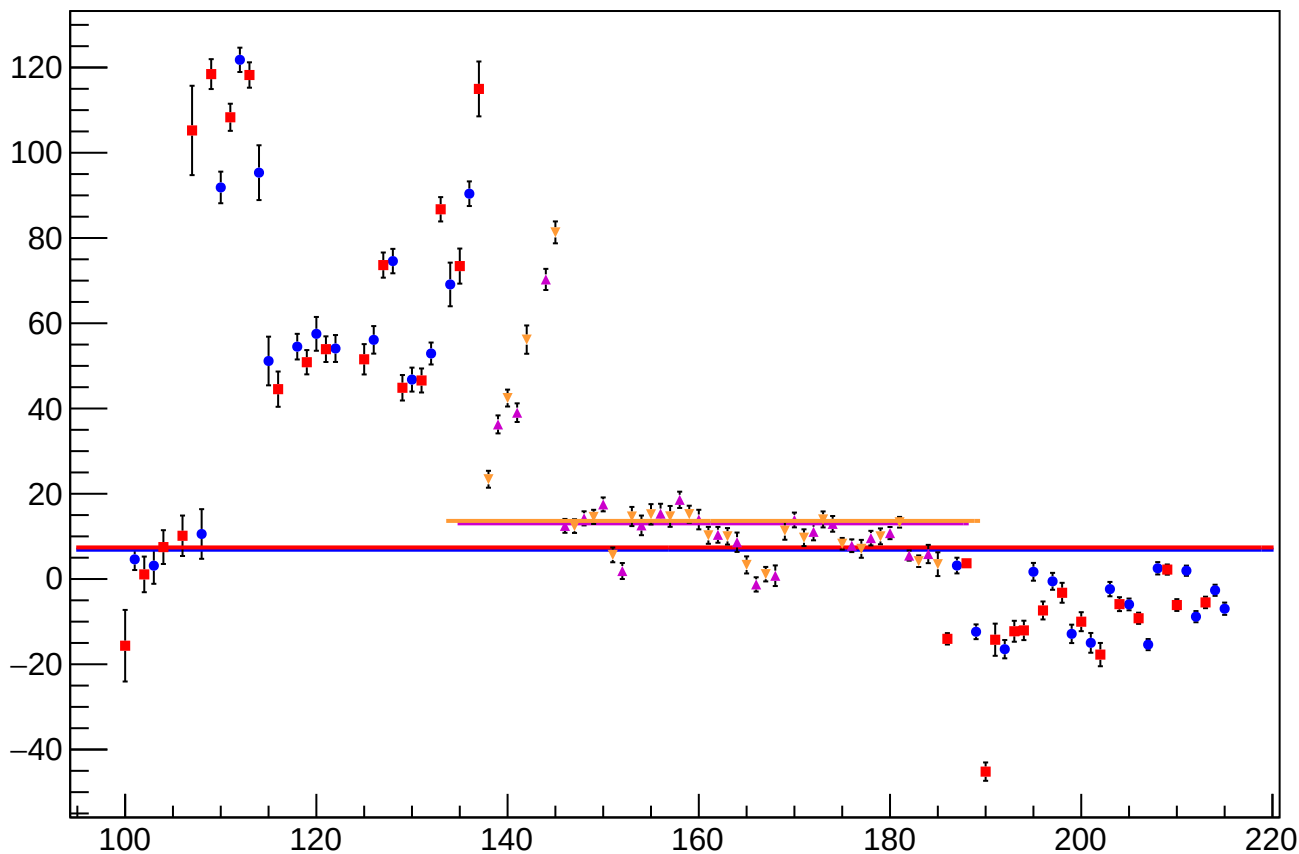
Right: 8.220 ± 0.256 $\chi^2/\text{NDF}: 887.6/63$

In: 5.028 ± 0.230 $\chi^2/\text{NDF}: 718.0/53$

Out: 5.583 ± 0.229 $\chi^2/\text{NDF}: 714.2/56$

All: 5.306 ± 0.162 $\chi^2/\text{NDF}: 1435.1/110$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.871 ± 0.367 $\chi^2/\text{NDF}: 6490.2/30$

Left Out: 13.632 ± 0.382 $\chi^2/\text{NDF}: 1300.0/23$

Right Out: 7.410 ± 0.371 $\chi^2/\text{NDF}: 8051.2/32$

Left In: 13.058 ± 0.380 $\chi^2/\text{NDF}: 1024.7/22$

Left: 13.344 ± 0.269 $\chi^2/\text{NDF}: 2325.9/46$

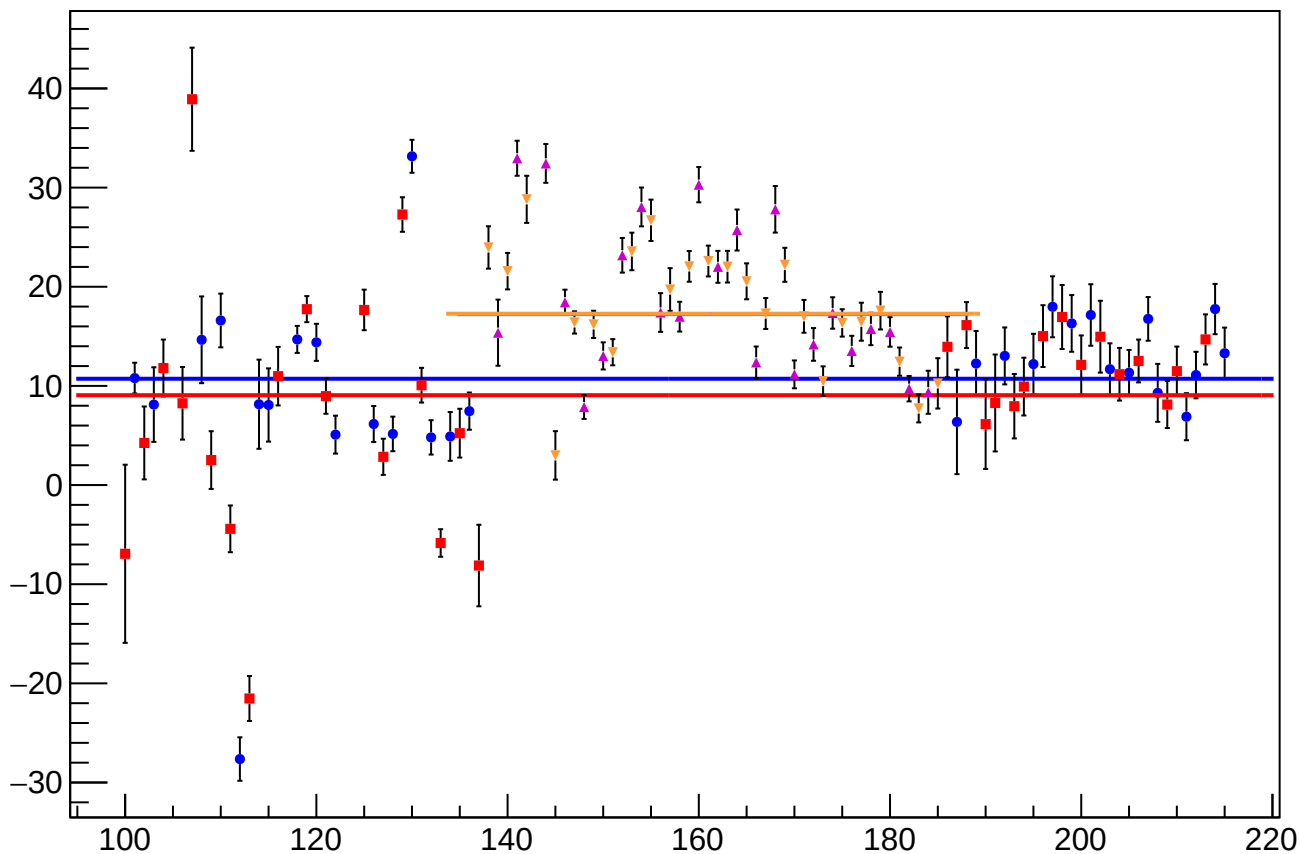
Right: 7.137 ± 0.261 $\chi^2/\text{NDF}: 14542.5/63$

In: 9.856 ± 0.264 $\chi^2/\text{NDF}: 7652.3/53$

Out: 10.430 ± 0.266 $\chi^2/\text{NDF}: 9487.9/56$

All: 10.141 ± 0.187 $\chi^2/\text{NDF}: 17142.6/110$

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.721 ± 0.412 χ^2/NDF : 587.7/30

Left Out: 17.280 ± 0.337 χ^2/NDF : 243.9/23

Right Out: 9.065 ± 0.423 χ^2/NDF : 611.4/32

Left In: 17.245 ± 0.339 χ^2/NDF : 440.8/22

Left: 17.262 ± 0.239 χ^2/NDF : 684.6/46

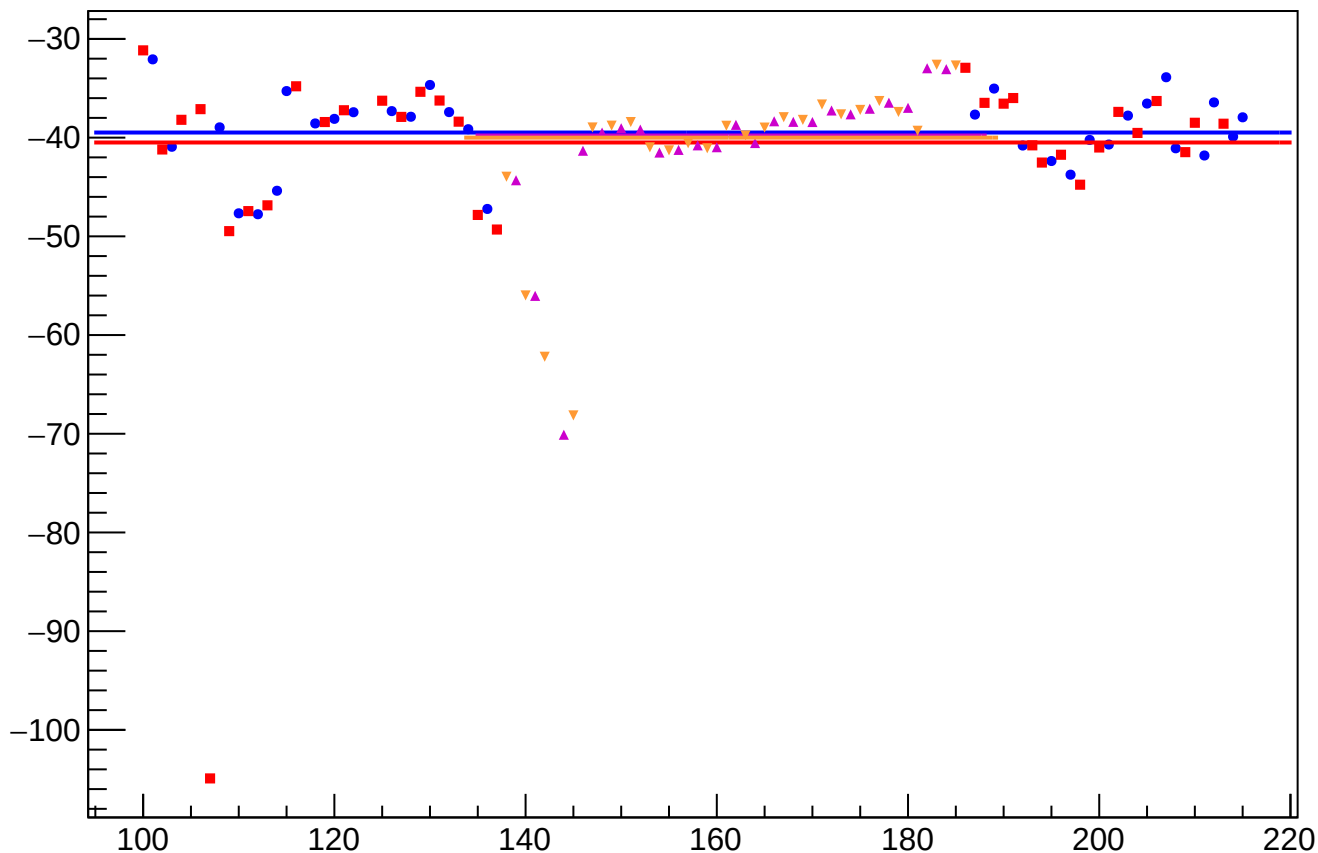
Right: 9.915 ± 0.295 χ^2/NDF : 1207.0/63

In: 14.607 ± 0.262 χ^2/NDF : 1177.9/53

Out: 14.088 ± 0.264 χ^2/NDF : 1086.0/56

All: 14.349 ± 0.186 χ^2/NDF : 2265.9/110

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.483 ± 0.020 $\chi^2/\text{NDF}: 37900.9/30$

Left Out: -39.999 ± 0.016 $\chi^2/\text{NDF}: 172263.8/23$

Right Out: -40.492 ± 0.021 $\chi^2/\text{NDF}: 107336.9/32$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.891 ± 0.011 $\chi^2/\text{NDF}: 316851.8/46$

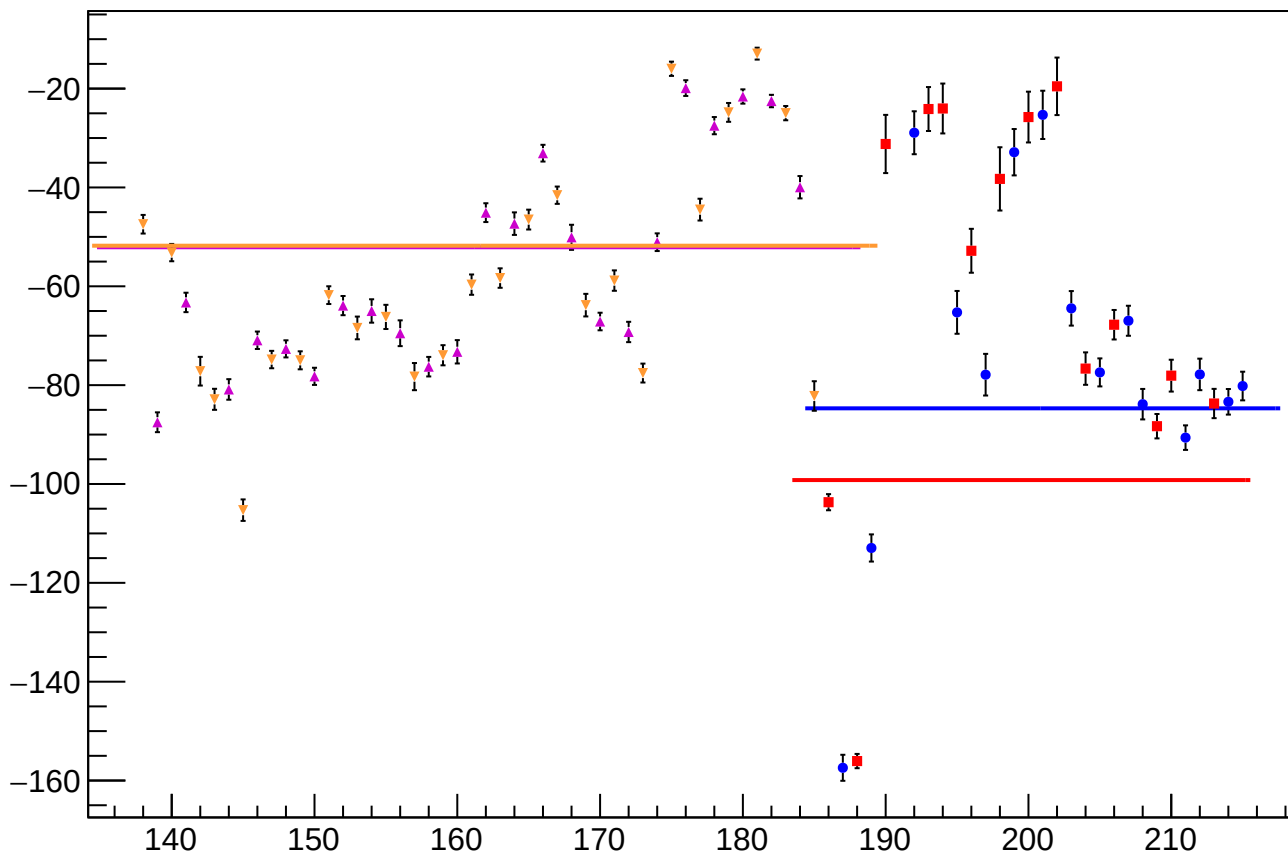
Right: -39.985 ± 0.015 $\chi^2/\text{NDF}: 146448.6/63$

In: -39.673 ± 0.012 $\chi^2/\text{NDF}: 182532.7/53$

Out: -40.182 ± 0.012 $\chi^2/\text{NDF}: 279962.9/56$

All: -39.926 ± 0.009 $\chi^2/\text{NDF}: 463326.9/110$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -84.692 ± 0.823 χ^2/NDF : 1413.9/14

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -99.205 ± 0.768 χ^2/NDF : 3033.7/13

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

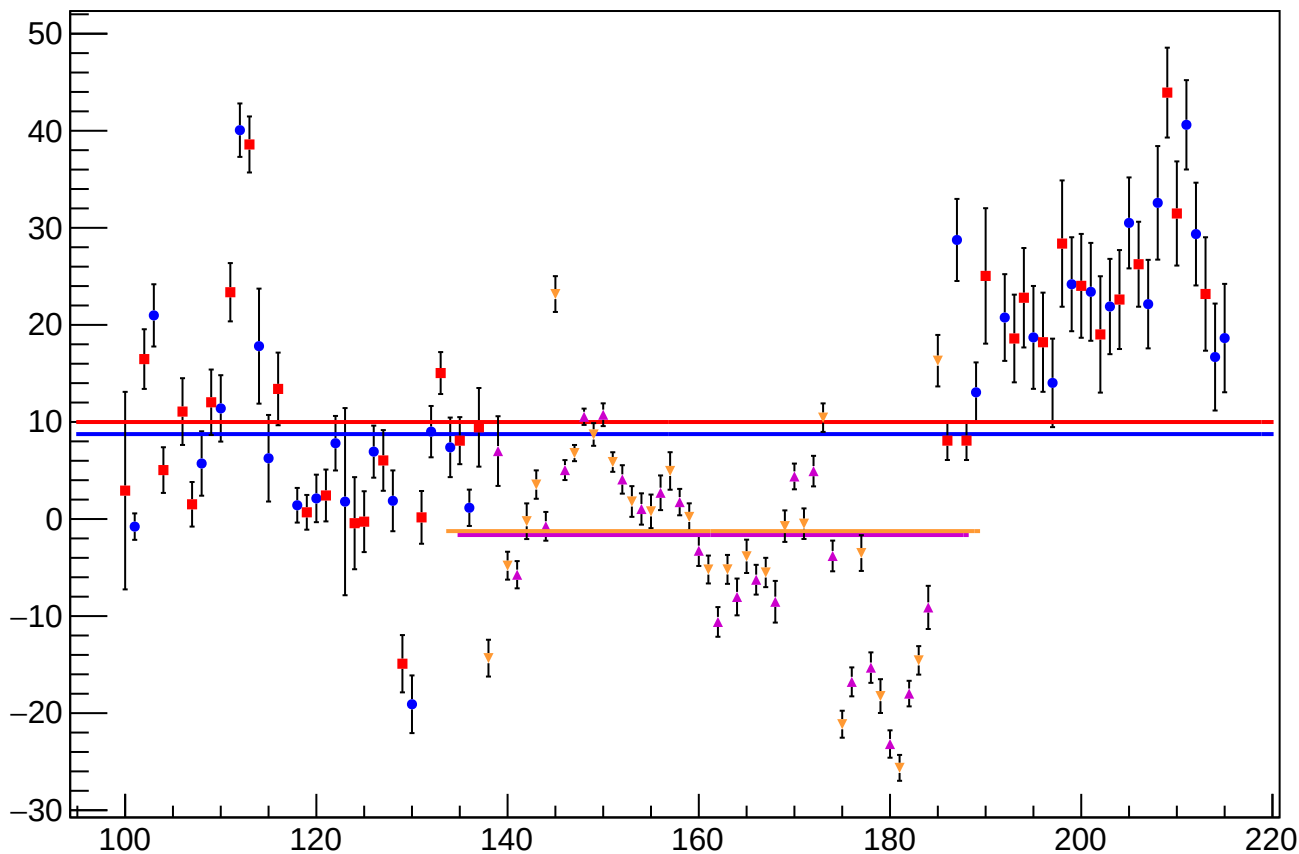
Right: -92.450 ± 0.562 χ^2/NDF : 4613.8/28

In: -58.043 ± 0.351 χ^2/NDF : 5975.4/37

Out: -61.212 ± 0.342 χ^2/NDF : 10251.3/38

All: -59.669 ± 0.245 χ^2/NDF : 16268.4/76

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.750 ± 0.557 $\chi^2/\text{NDF}: 508.9/31$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.993 ± 0.551 $\chi^2/\text{NDF}: 415.7/32$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

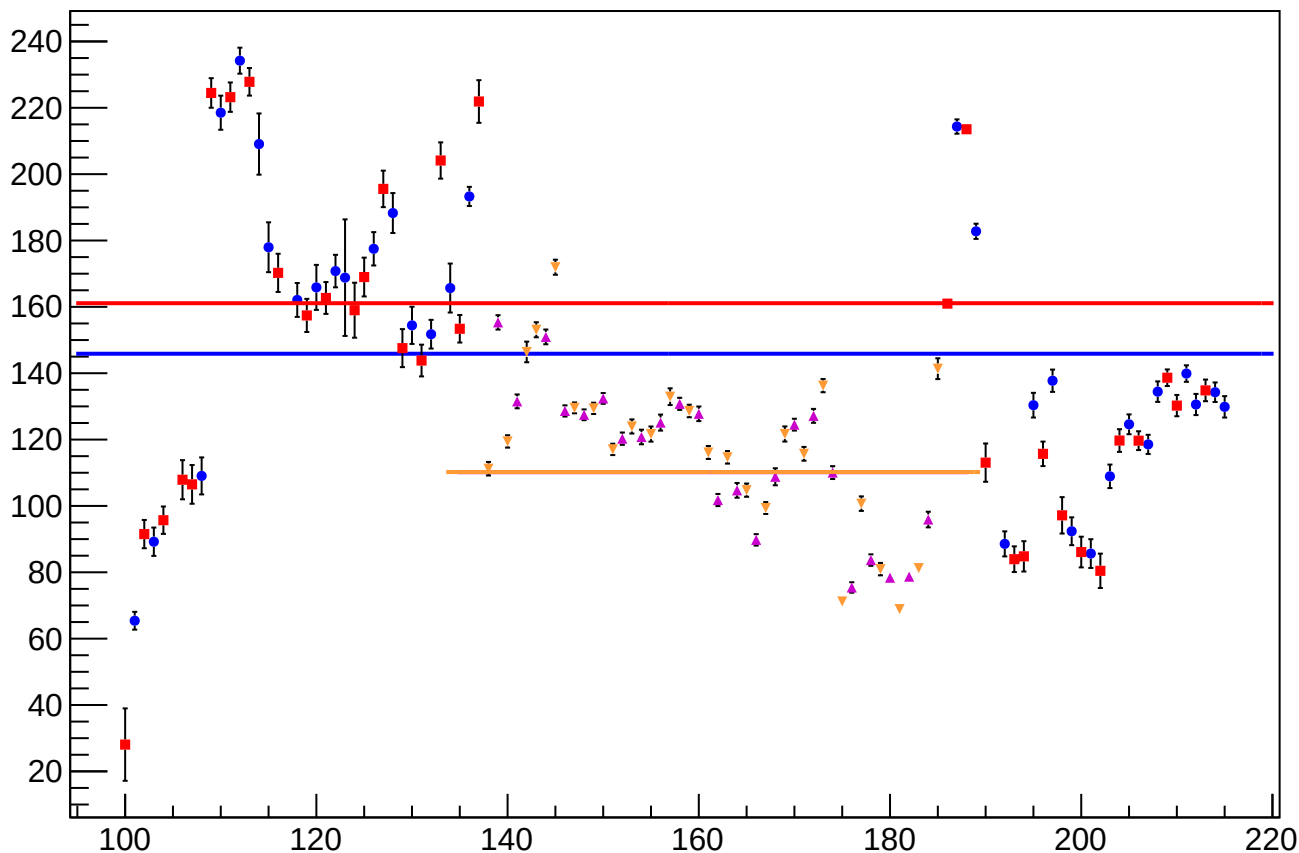
Right: 9.378 ± 0.392 $\chi^2/\text{NDF}: 927.1/64$

In: 0.688 ± 0.264 $\chi^2/\text{NDF}: 1871.0/54$

Out: 1.214 ± 0.258 $\chi^2/\text{NDF}: 2063.1/57$

All: 0.957 ± 0.185 $\chi^2/\text{NDF}: 3936.1/112$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 145.874 $\pm$ 0.647 χ^2 /NDF: 4511.2/31

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 161.101 $\pm$ 0.583 χ^2 /NDF: 5888.2/32

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

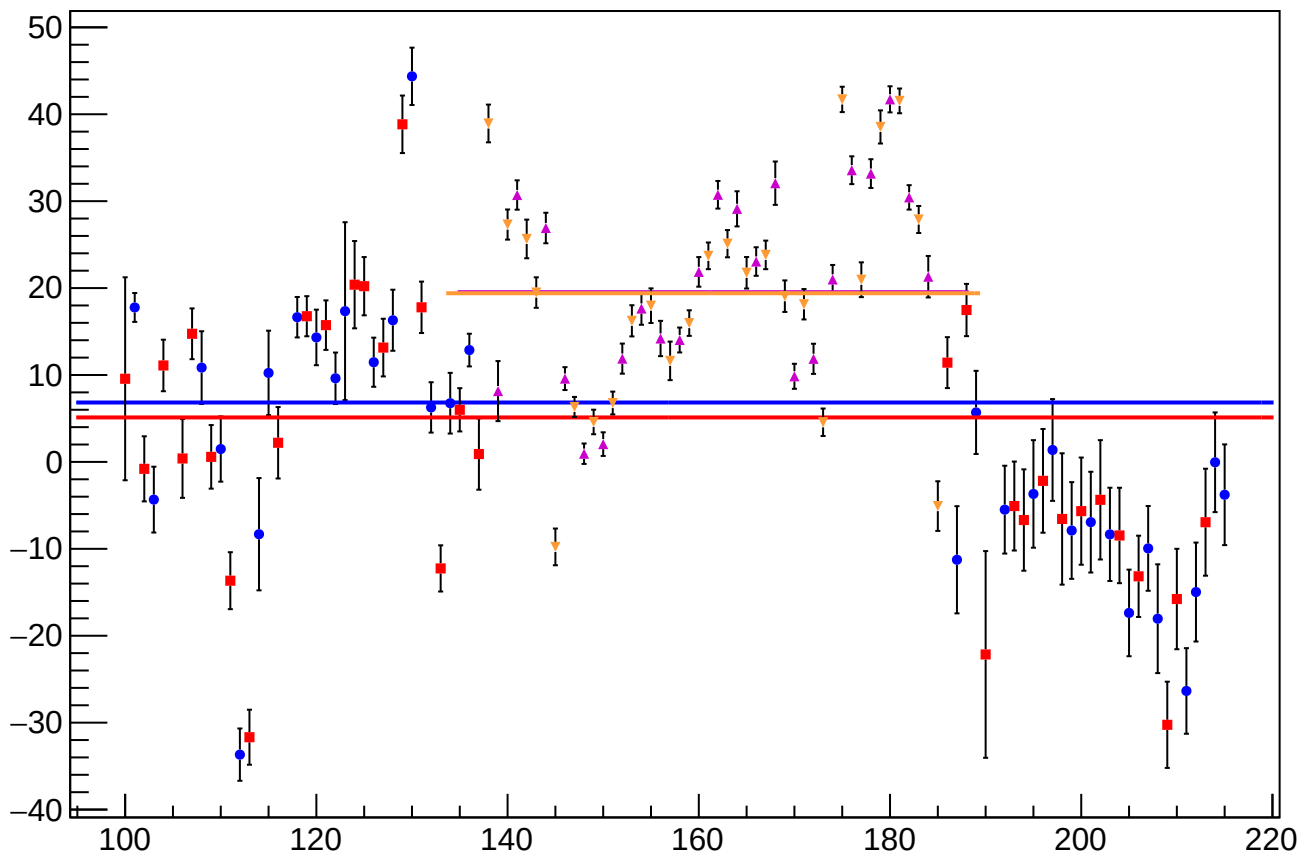
Right: 154.287 $\pm$ 0.433 χ^2 /NDF: 10705.2/64

In: 119.535 $\pm$ 0.332 χ^2 /NDF:10457.8/54

Out: 125.514 $\pm$ 0.319 χ^2 /NDF:15816.7/57

All: 122.635 $\pm$ 0.230 χ^2 /NDF: 26443.2/112

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.834 $\pm$ 0.642 χ^2/NDF : 572.6/31

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 5.117 $\pm$ 0.652 χ^2/NDF : 562.6/32

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

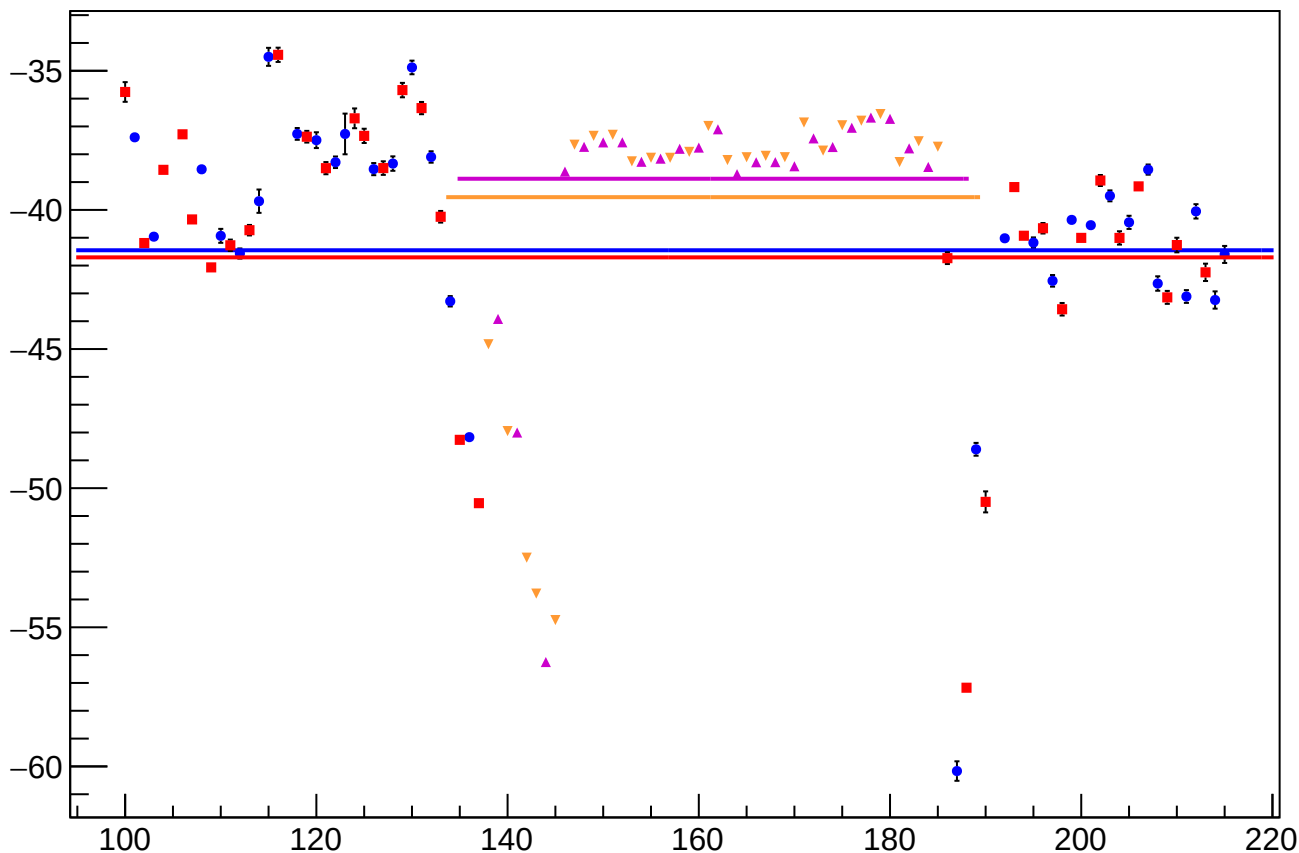
Right: 5.989 $\pm$ 0.457 χ^2/NDF : 1138.7/64

In: 16.717 $\pm$ 0.302 χ^2/NDF :2058.4/54

Out: 16.423 $\pm$ 0.298 χ^2/NDF :2396.4/57

All: 16.568 $\pm$ 0.212 χ^2/NDF : 4455.4/112

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.450 ± 0.032 χ^2/NDF : 16956.6/31

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.705 ± 0.031 χ^2/NDF : 23113.8/32

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

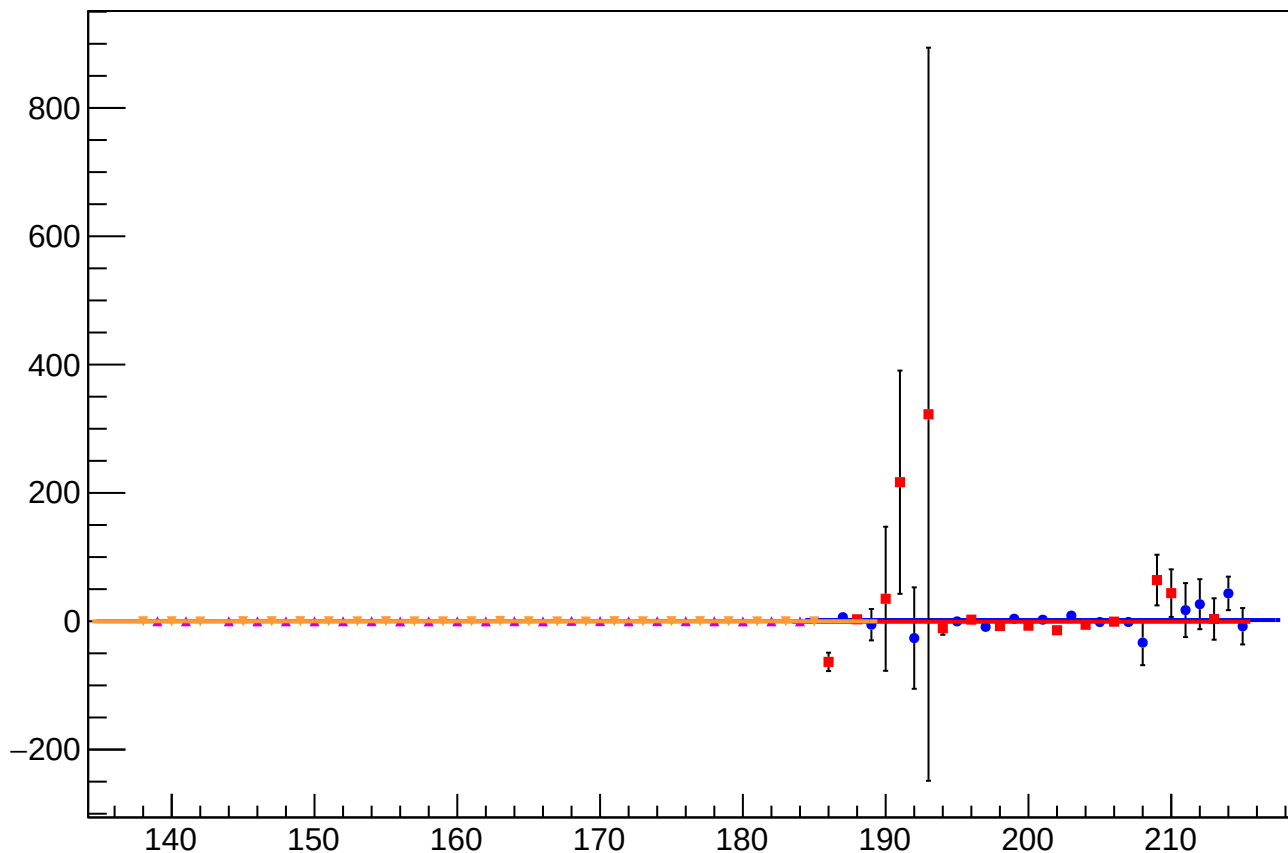
Right: -41.578 ± 0.022 χ^2/NDF : 40103.3/64

In: -39.399 ± 0.014 χ^2/NDF : 75671.9/54

Out: -39.974 ± 0.014 χ^2/NDF : 118919.2/57

All: -39.689 ± 0.010 χ^2/NDF : 195420.6/112

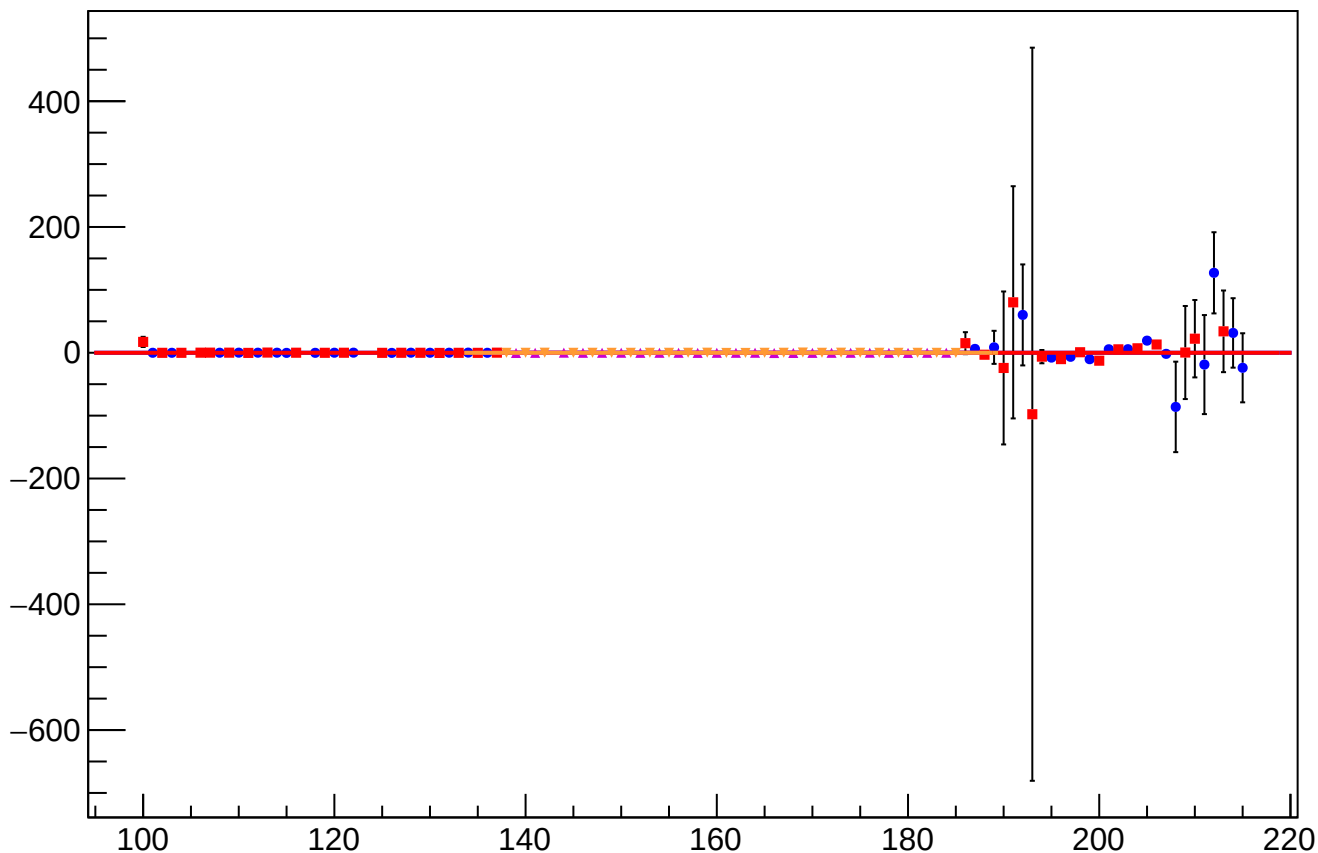
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.869 ± 1.529 $\chi^2/\text{NDF}: 15.4/14$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.836 ± 1.419 $\chi^2/\text{NDF}: 36.7/14$
 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: 0.415 ± 1.040 $\chi^2/\text{NDF}: 53.8/29$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 50.3/37$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 76.7/38$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 131.1/76$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.8/30

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.5/32

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

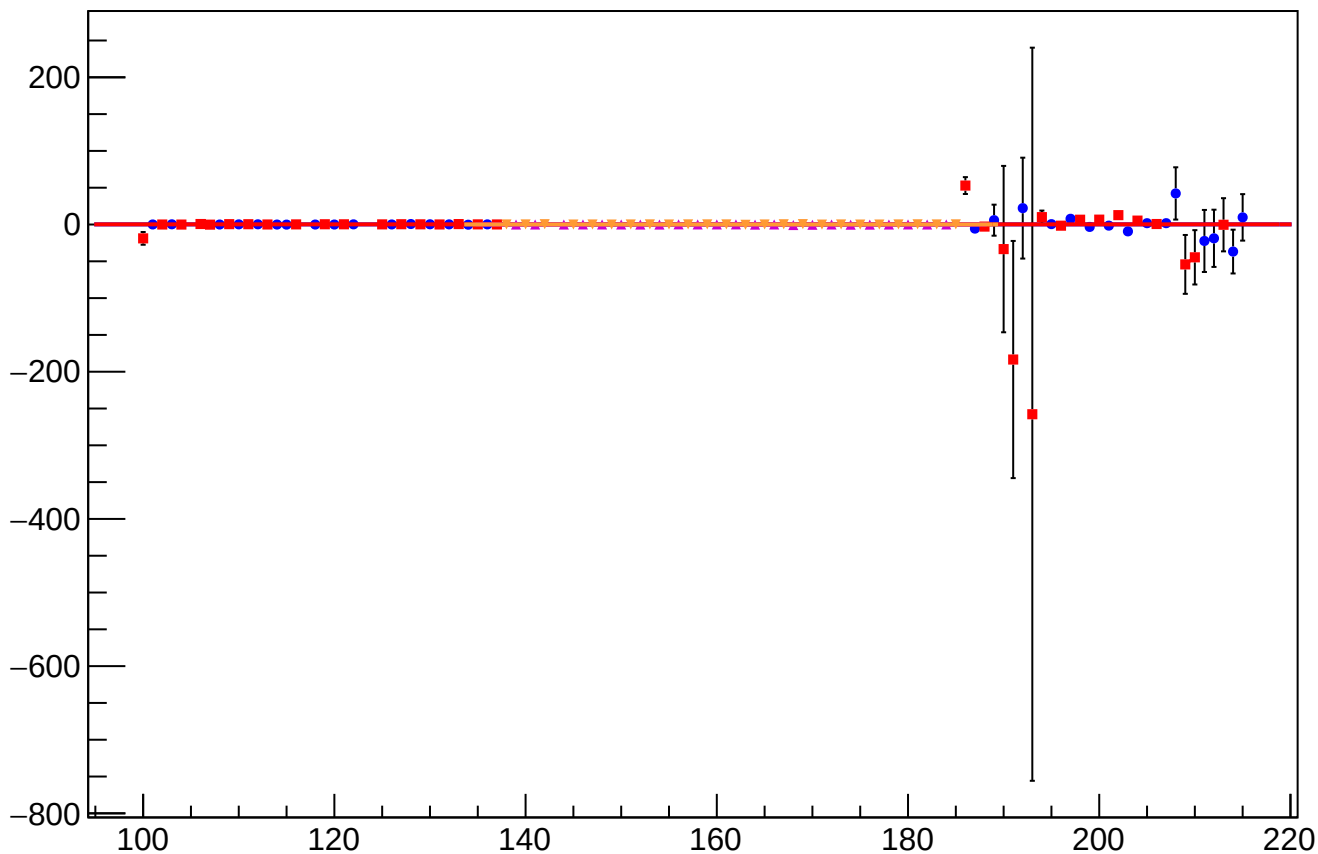
Right: -0.025 ± 0.020 χ^2/NDF : 80.7/63

In: -0.038 ± 0.015 χ^2/NDF : 71.8/53

Out: -0.073 ± 0.015 χ^2/NDF : 68.1/56

All: -0.056 ± 0.011 χ^2/NDF : 142.6/110

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 30.7/30

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 60.3/32

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

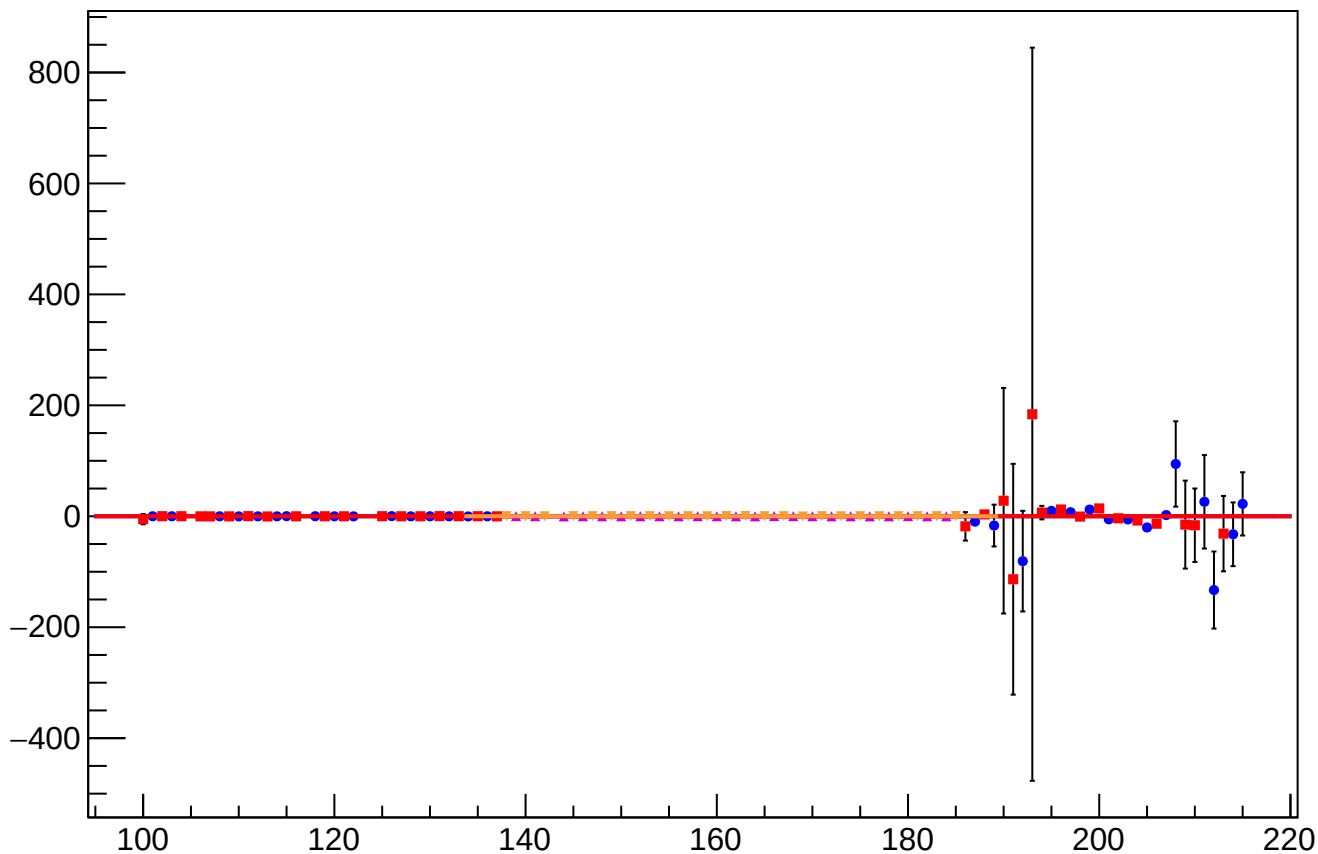
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 91.7/63

In: 0.043 $\pm$ 0.020 χ^2 /NDF:73.4/53

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:105.7/56

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 183.5/110

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 39.2/30

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.9/32

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

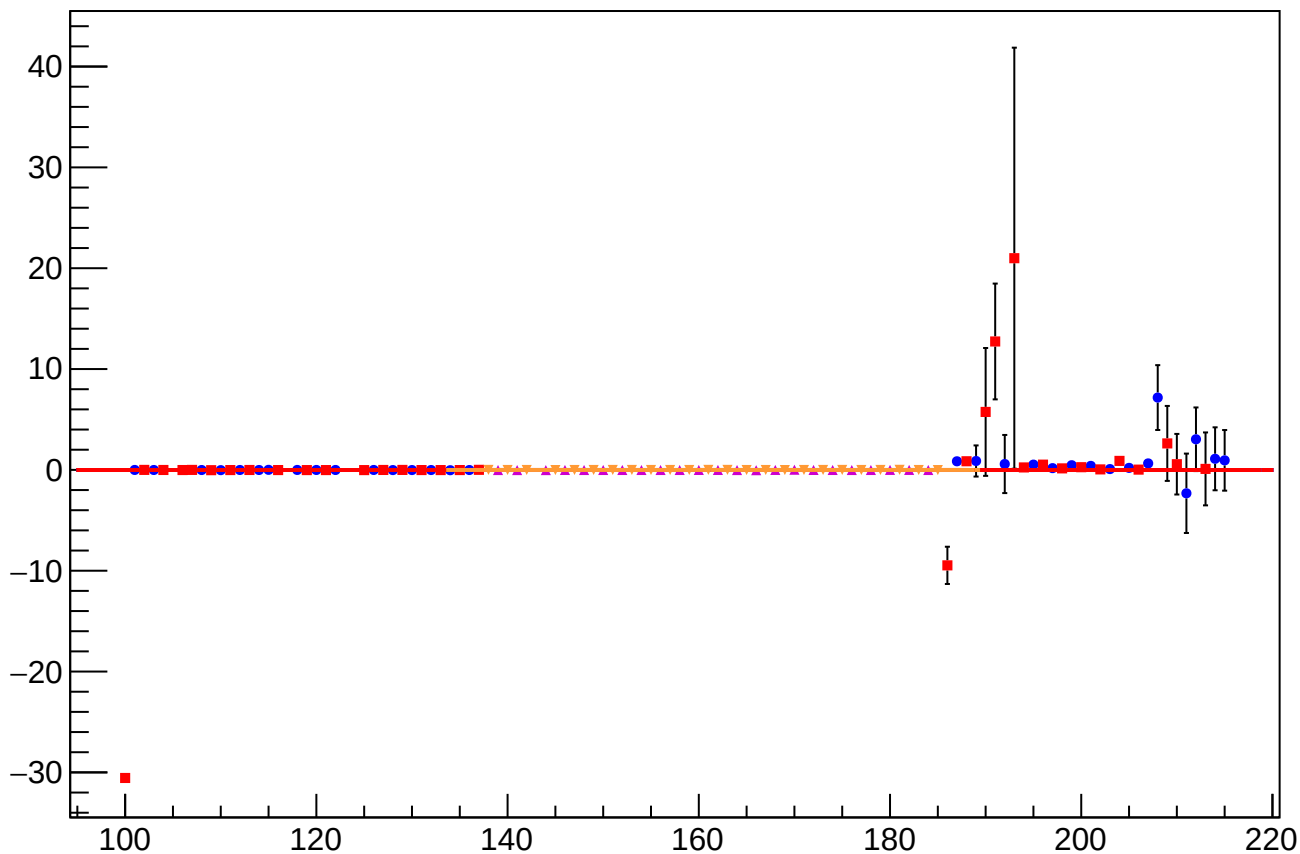
Right: 0.024 ± 0.024 χ^2/NDF : 75.9/63

In: 0.049 ± 0.017 χ^2/NDF : 74.4/53

Out: 0.093 ± 0.017 χ^2/NDF : 65.9/56

All: 0.071 ± 0.012 χ^2/NDF : 143.7/110

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 $\chi^2/\text{NDF}: 48.1/30$

Left Out: -0.008 ± 0.001 $\chi^2/\text{NDF}: 30.1/23$

Right Out: -0.012 ± 0.002 $\chi^2/\text{NDF}: 11954.9/32$

Left In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 40.8/22$

Left: -0.008 ± 0.001 $\chi^2/\text{NDF}: 71.4/46$

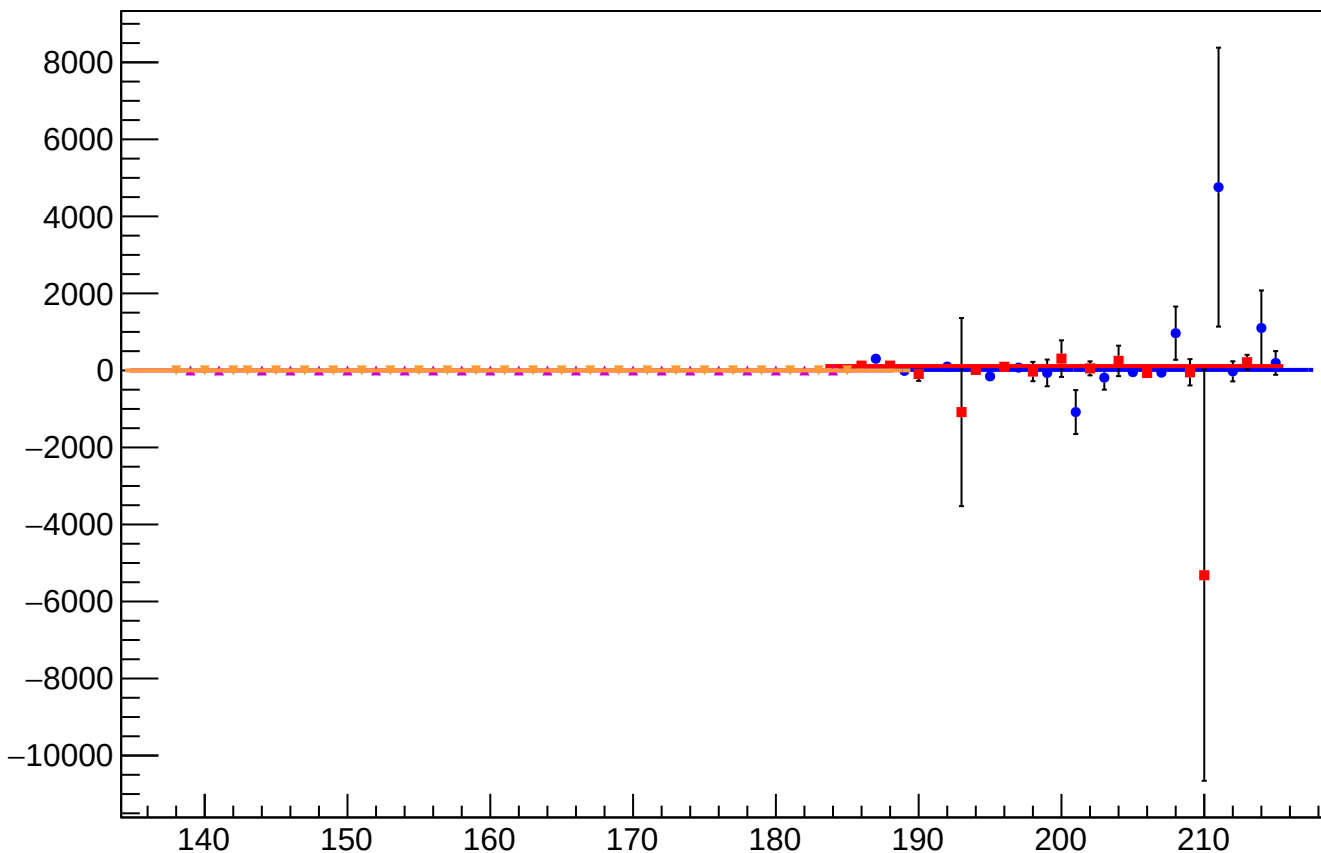
Right: -0.012 ± 0.001 $\chi^2/\text{NDF}: 12003.0/63$

In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 91.1/53$

Out: -0.009 ± 0.001 $\chi^2/\text{NDF}: 11988.8/56$

All: -0.009 ± 0.001 $\chi^2/\text{NDF}: 12080.1/110$

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.828+/-25.808 χ^2/NDF : 25.5/14

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 113.239+/-16.110 χ^2/NDF : 8.8/13

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

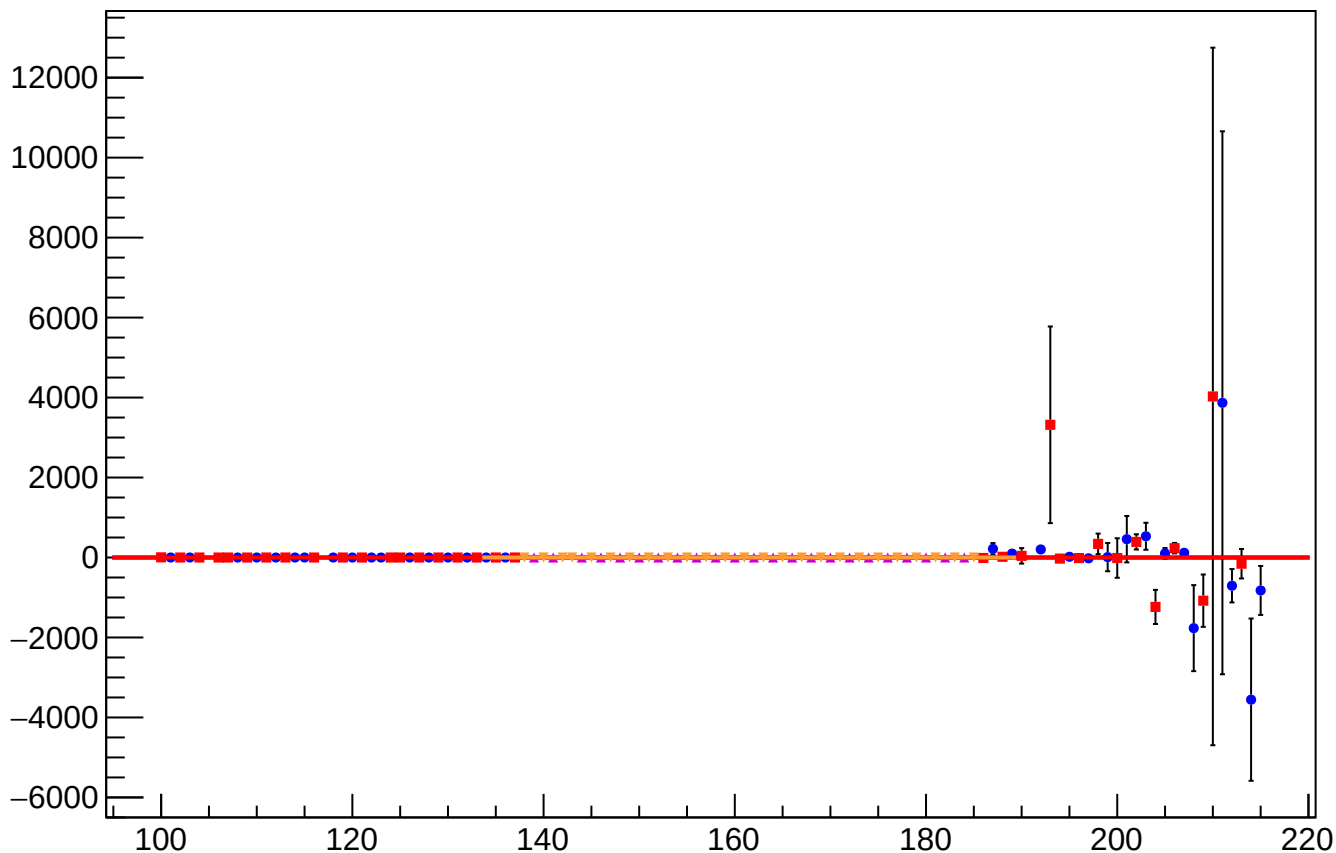
Right: 85.365+/-13.666 χ^2/NDF : 45.0/28

In: 0.002+/-0.028 χ^2/NDF :54.8/37

Out: 0.018+/-0.027 χ^2/NDF :89.1/38

All: 0.010+/-0.019 χ^2/NDF : 144.1/76

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 49.8/31$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 41.4/32$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

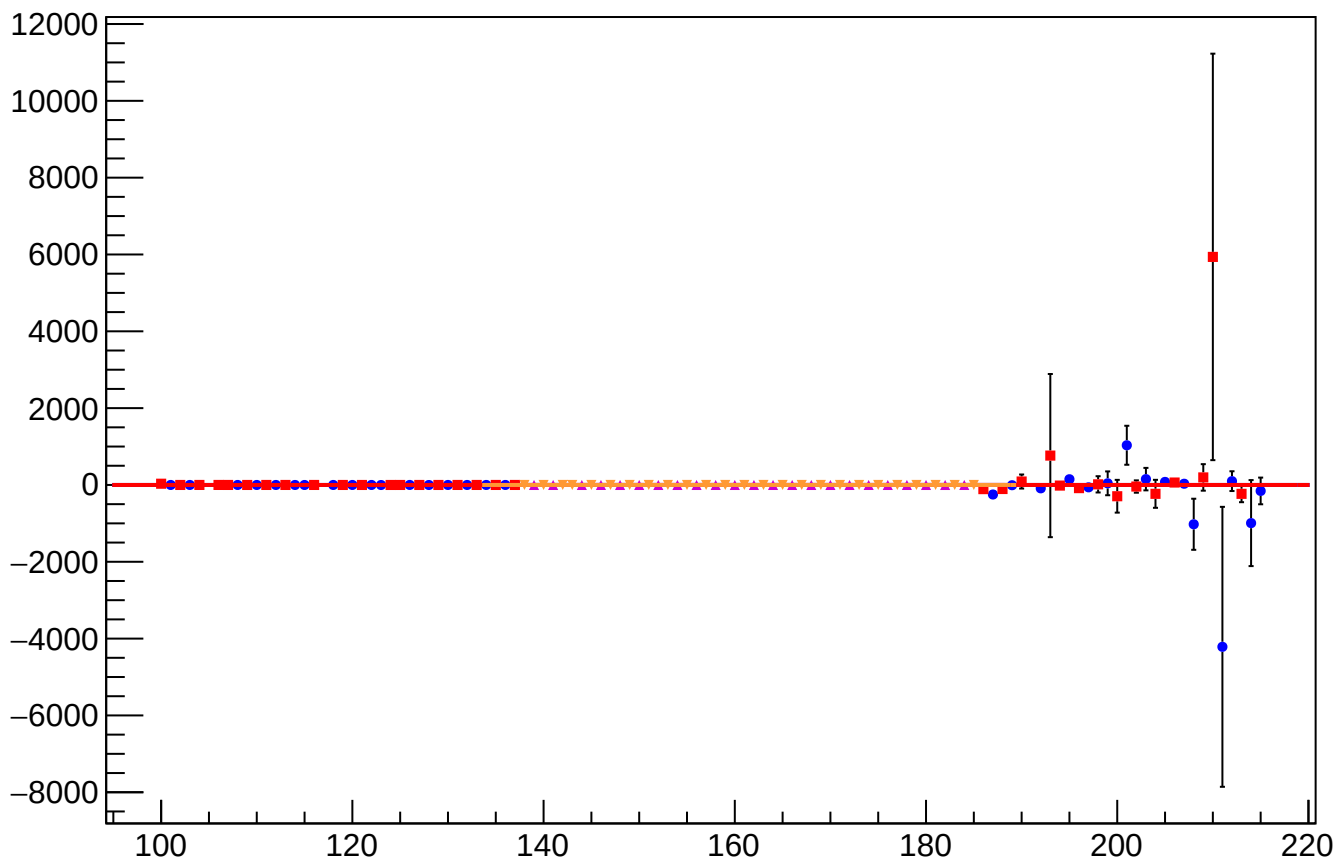
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 94.5/64$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.1/54$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.9/57$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 168.2/112$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 51.0/31$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 81.8/32$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

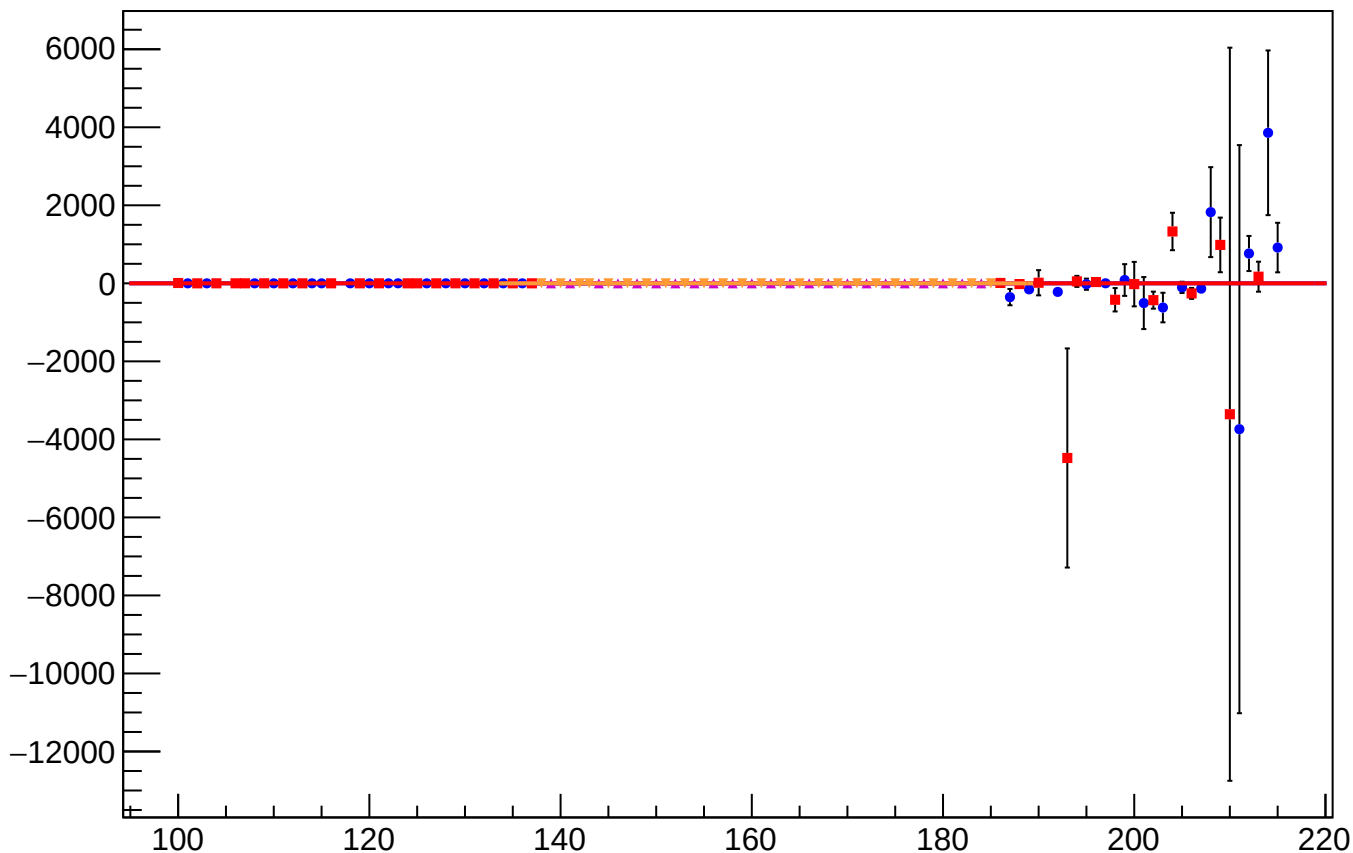
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 132.9/64$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 81.4/54$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 114.7/57$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 196.2/112$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.2/31

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 38.9/32

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

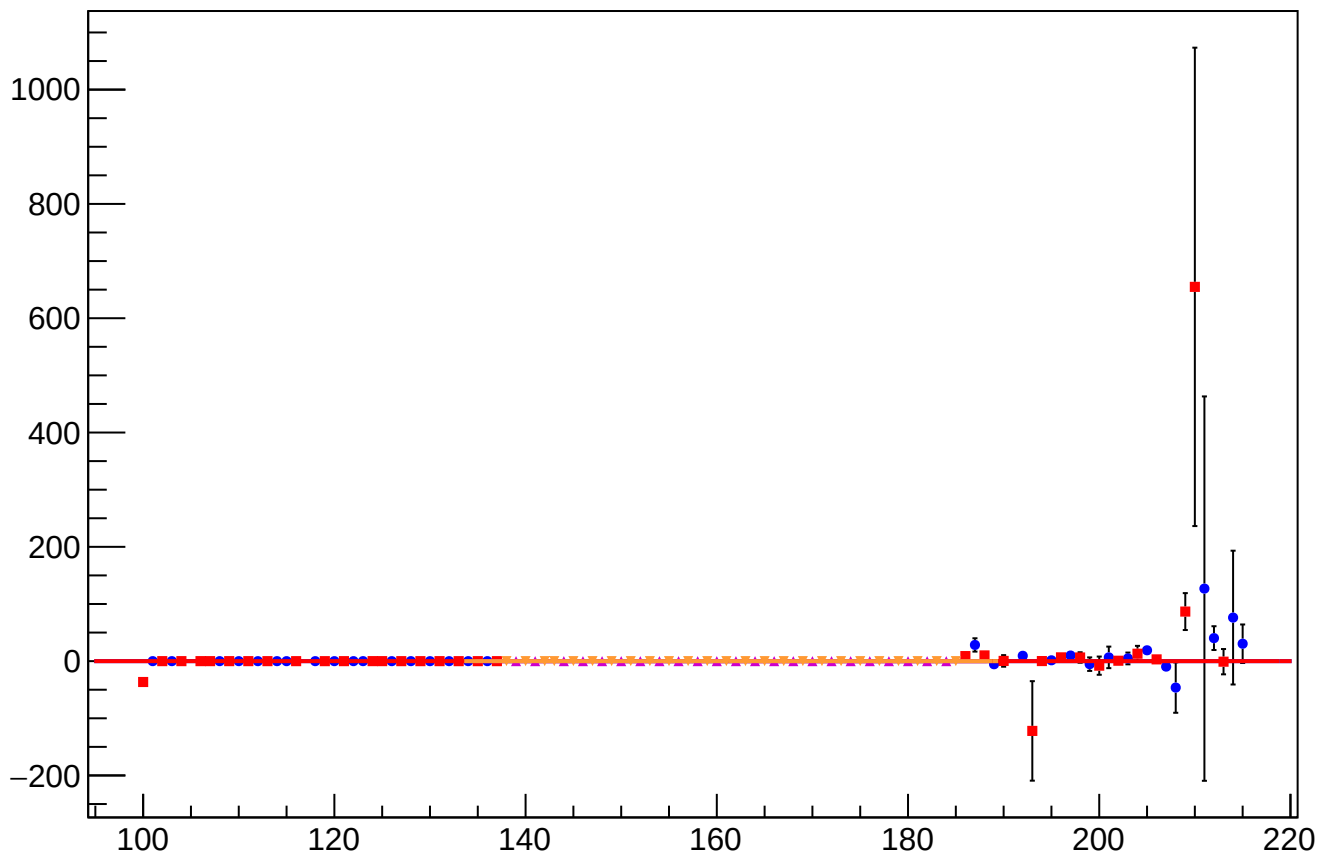
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 92.1/64

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.0/54

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:66.0/57

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 168.7/112

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 69.2/31

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10484.0/32

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

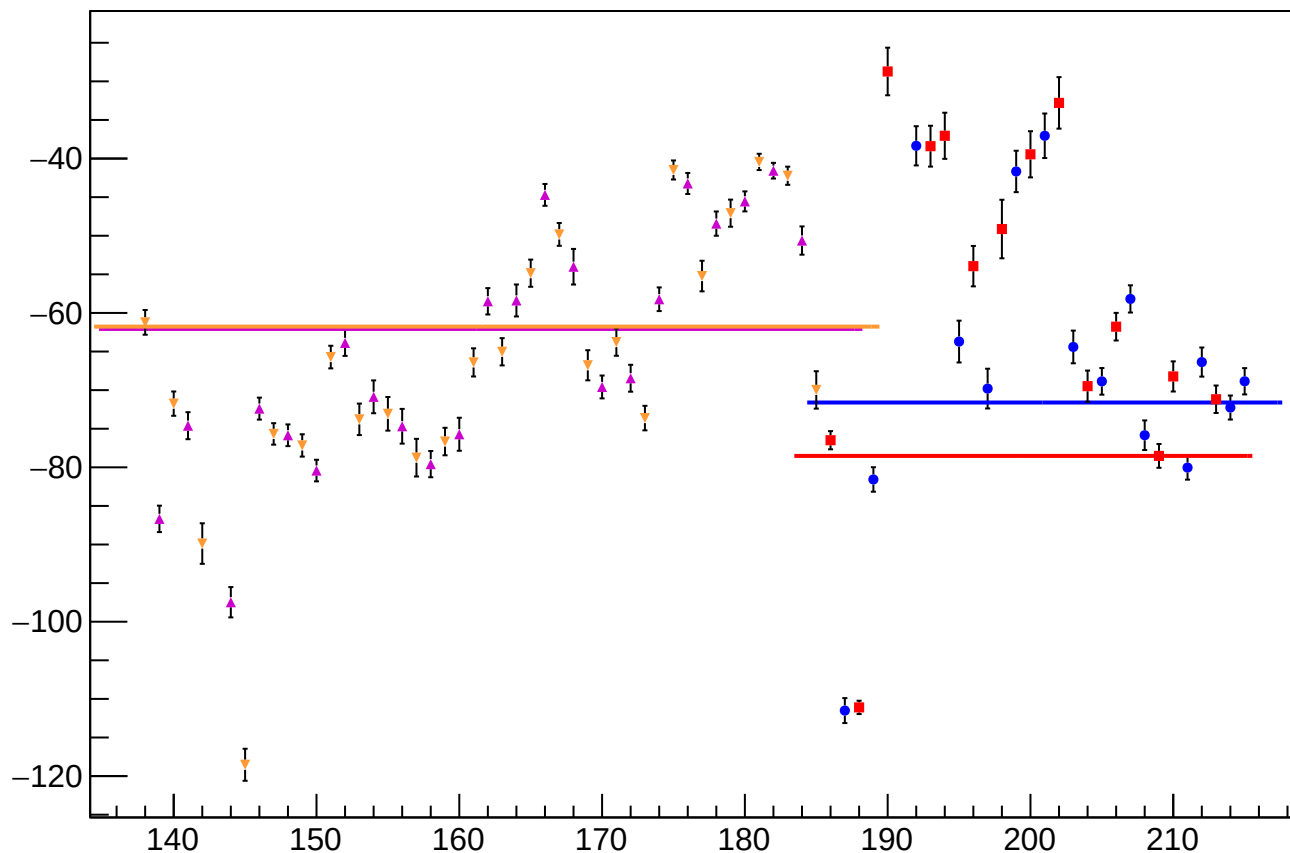
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10553.2/64

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 93.7/54

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10519.2/57

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10613.0/112

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.604 ± 0.495 $\chi^2/\text{NDF}: 1213.2/14$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -78.521 ± 0.477 $\chi^2/\text{NDF}: 2767.1/13$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

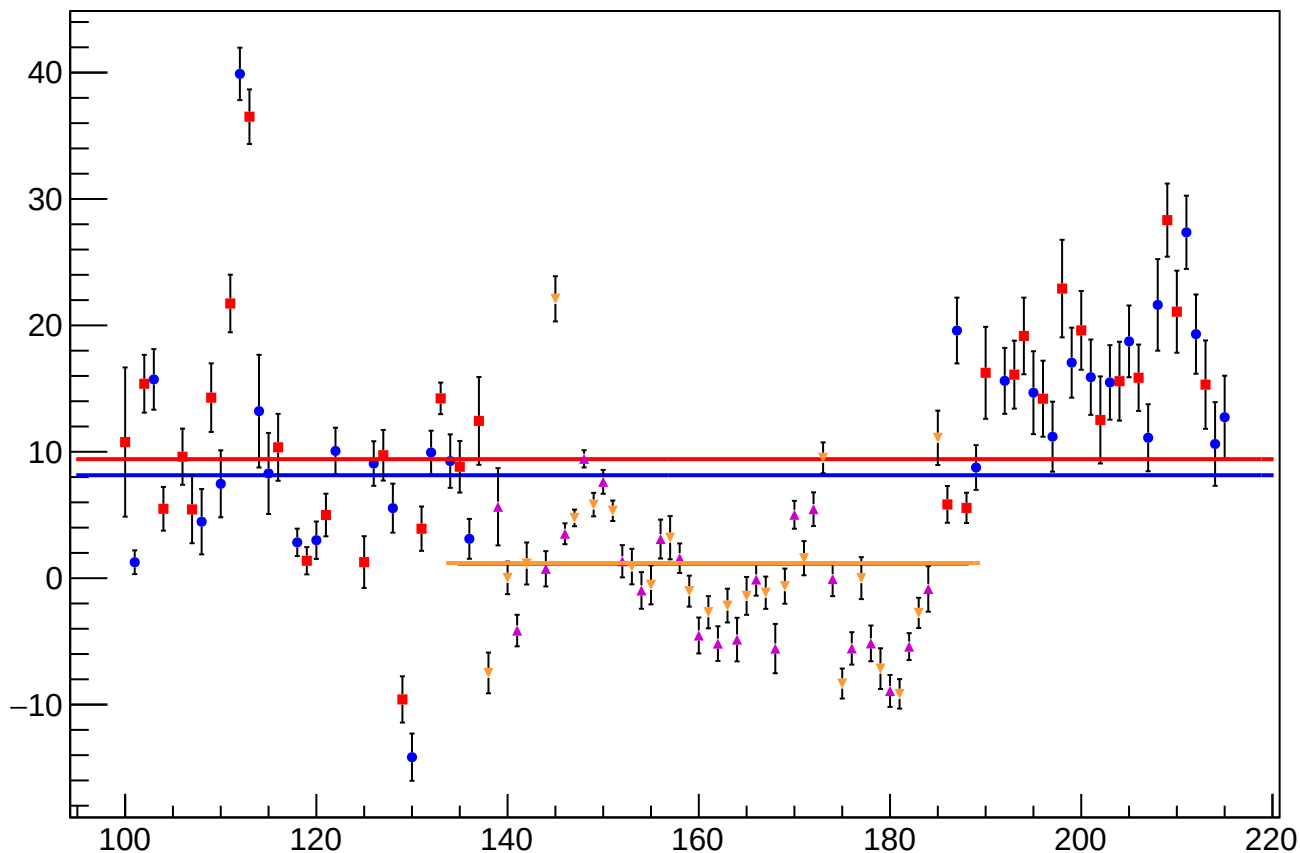
Right: -75.190 ± 0.344 $\chi^2/\text{NDF}: 4081.6/28$

In: -65.034 ± 0.276 $\chi^2/\text{NDF}: 3660.7/37$

Out: -67.277 ± 0.274 $\chi^2/\text{NDF}: 6099.4/37$

All: -66.165 ± 0.194 $\chi^2/\text{NDF}: 9793.5/75$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.147 ± 0.369 $\chi^2/\text{NDF}: 639.1/30$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.418 ± 0.371 $\chi^2/\text{NDF}: 547.0/31$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

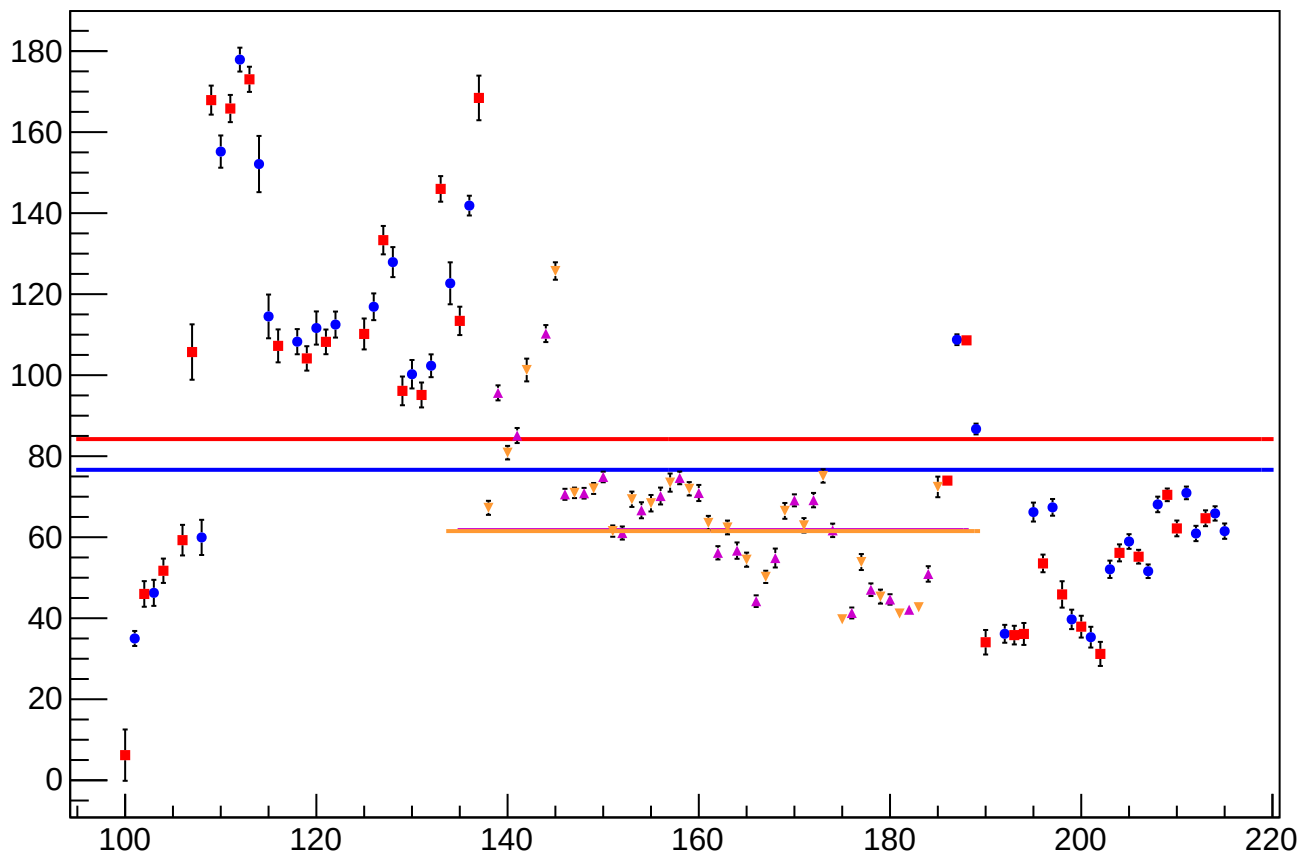
Right: 8.779 ± 0.261 $\chi^2/\text{NDF}: 1192.0/62$

In: 3.415 ± 0.210 $\chi^2/\text{NDF}: 1345.7/53$

Out: 3.803 ± 0.209 $\chi^2/\text{NDF}: 1409.0/55$

All: 3.610 ± 0.148 $\chi^2/\text{NDF}: 2756.4/109$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.639 $\pm$ 0.407 χ^2 /NDF: 6076.4/30

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 84.222 $\pm$ 0.375 χ^2 /NDF: 7621.2/31

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

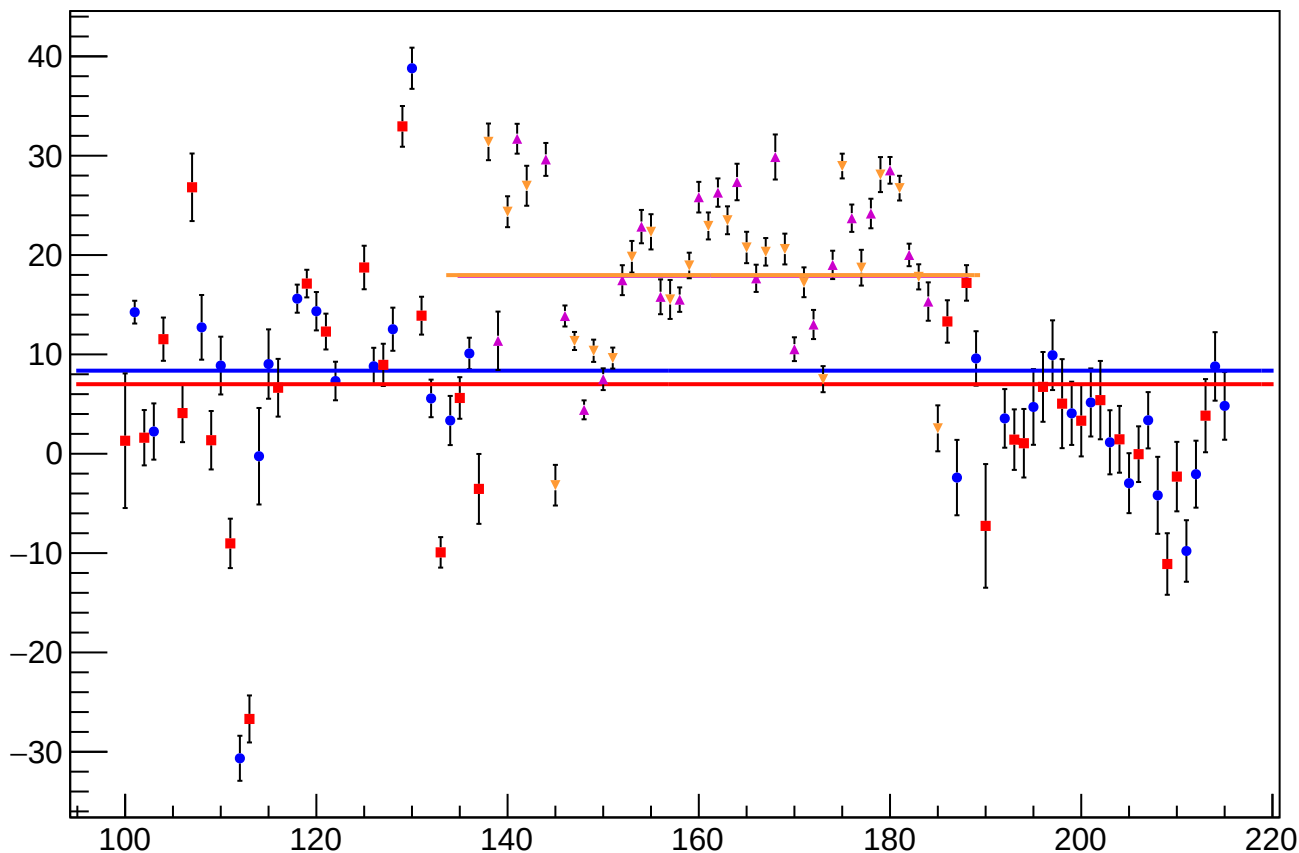
Right: 80.748 $\pm$ 0.276 χ^2 /NDF: 13885.3/62

In: 67.655 $\pm$ 0.256 χ^2 /NDF:9299.9/53

Out: 71.515 $\pm$ 0.249 χ^2 /NDF:12284.0/55

All: 69.645 $\pm$ 0.178 χ^2 /NDF: 21700.7/109

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.363 ± 0.429 χ^2/NDF : 687.9/30

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.001 ± 0.441 χ^2/NDF : 792.5/31

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

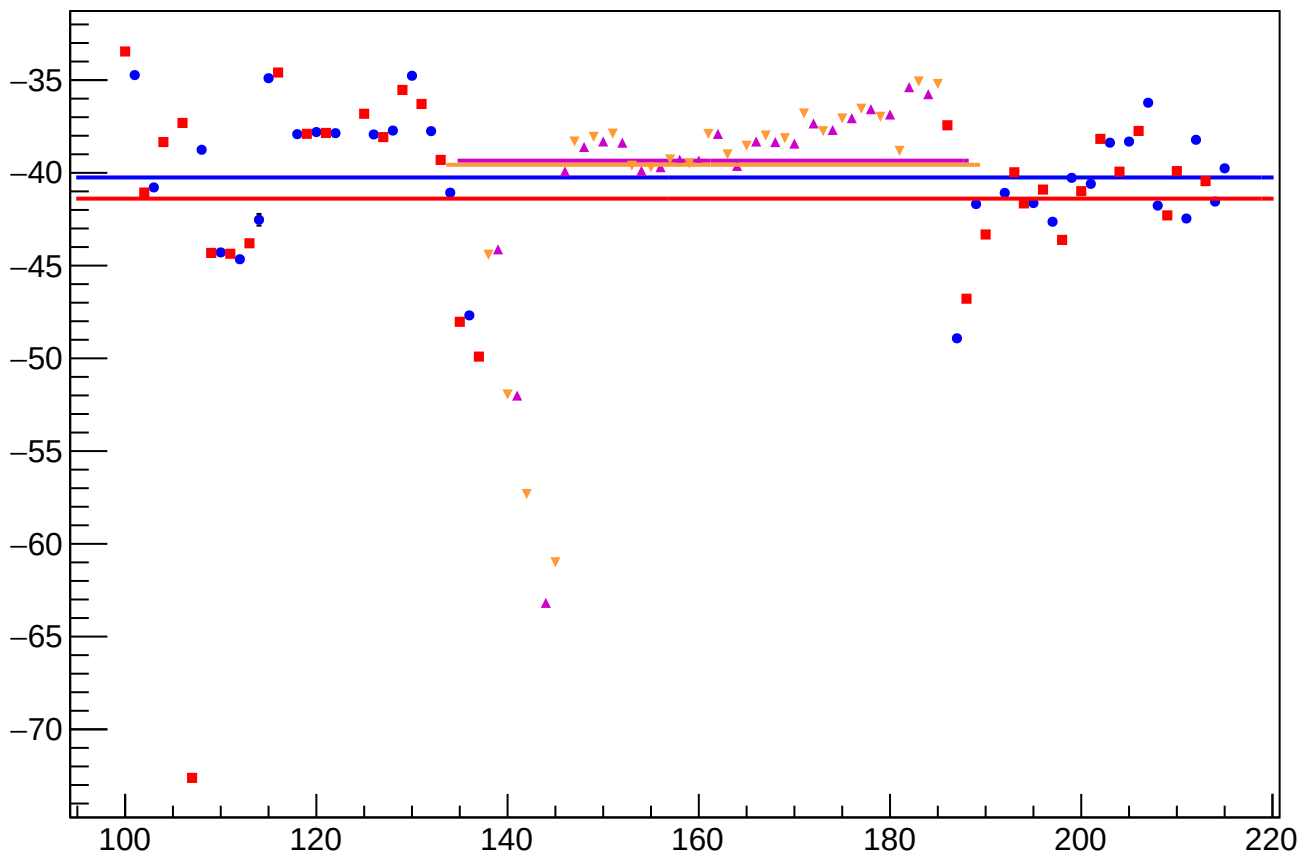
Right: 7.701 ± 0.307 χ^2/NDF : 1485.3/62

In: 14.884 ± 0.242 χ^2/NDF : 1753.3/53

Out: 14.653 ± 0.243 χ^2/NDF : 1898.5/55

All: 14.769 ± 0.171 χ^2/NDF : 3652.3/109

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.249 ± 0.021 $\chi^2/\text{NDF}: 29898.2/30$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.390 ± 0.021 $\chi^2/\text{NDF}: 68706.0/31$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

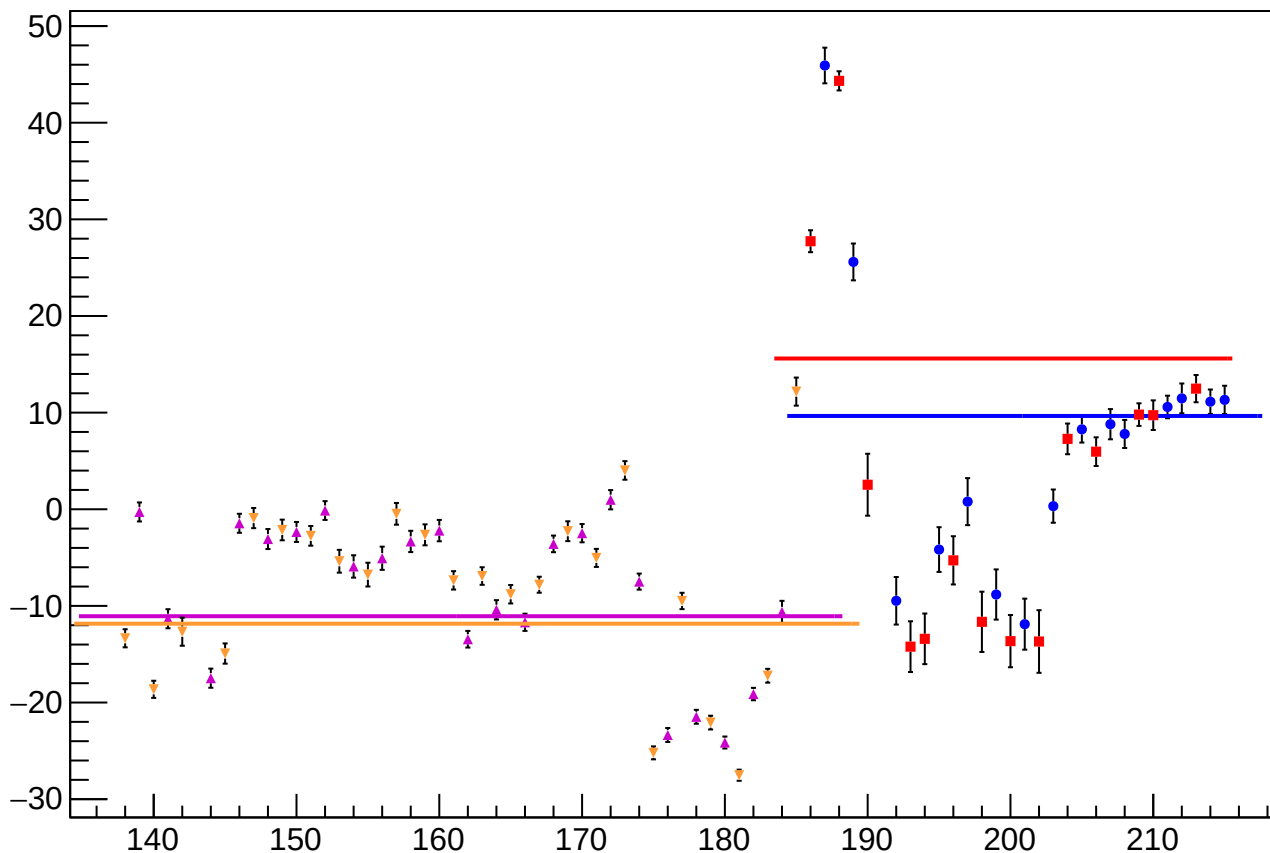
Right: -40.816 ± 0.015 $\chi^2/\text{NDF}: 100035.4/62$

In: -39.607 ± 0.011 $\chi^2/\text{NDF}: 147800.2/53$

Out: -40.098 ± 0.012 $\chi^2/\text{NDF}: 215051.5/55$

All: -39.850 ± 0.008 $\chi^2/\text{NDF}: 363764.4/109$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.655 ± 0.431 $\chi^2/\text{NDF}: 720.0/14$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 15.601 ± 0.439 $\chi^2/\text{NDF}: 1683.3/13$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

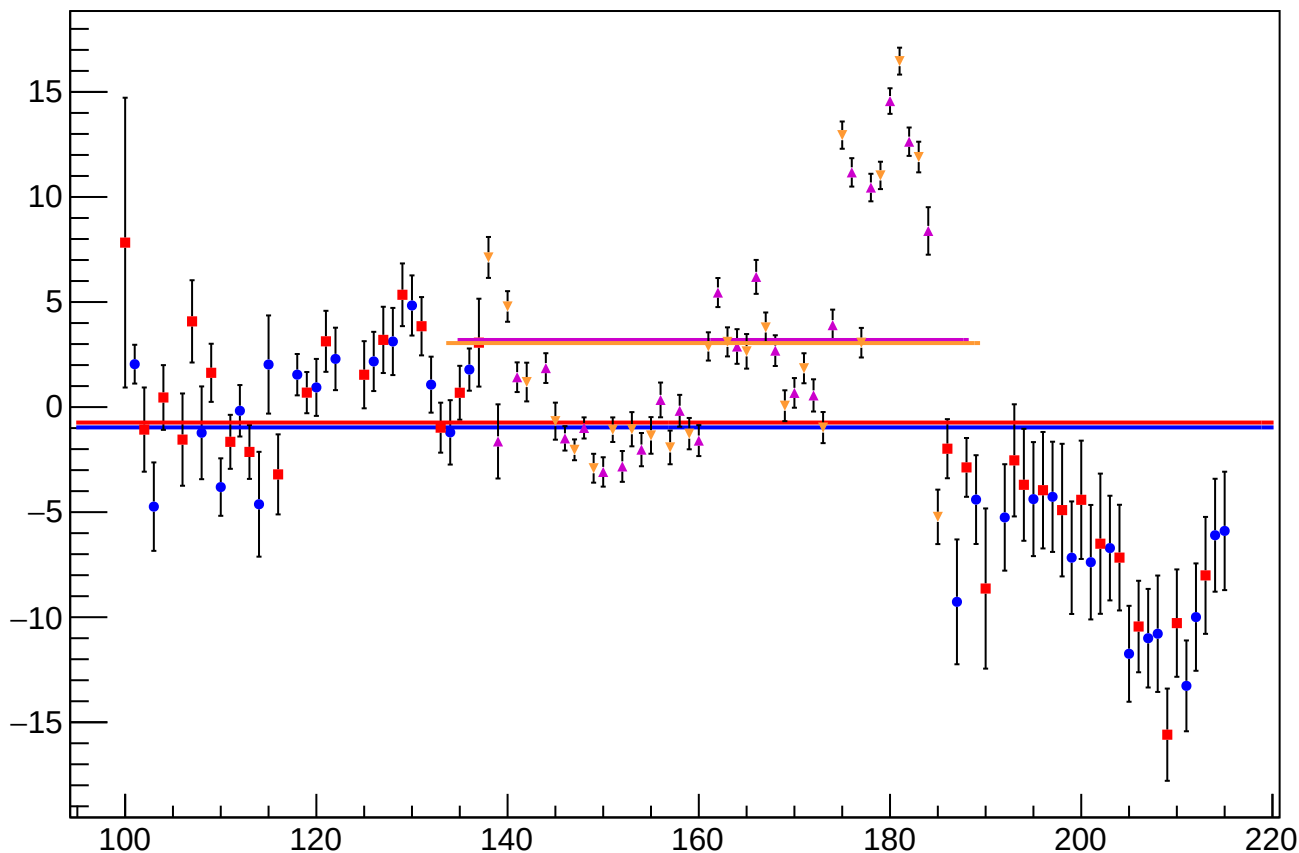
Right: 12.572 ± 0.308 $\chi^2/\text{NDF}: 2496.7/28$

In: -7.754 ± 0.172 $\chi^2/\text{NDF}: 4768.0/37$

Out: -7.635 ± 0.172 $\chi^2/\text{NDF}: 7731.5/37$

All: -7.694 ± 0.122 $\chi^2/\text{NDF}: 12499.7/75$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.967 ± 0.303 χ^2/NDF : 210.9/30

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.736 ± 0.306 χ^2/NDF : 174.1/31

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

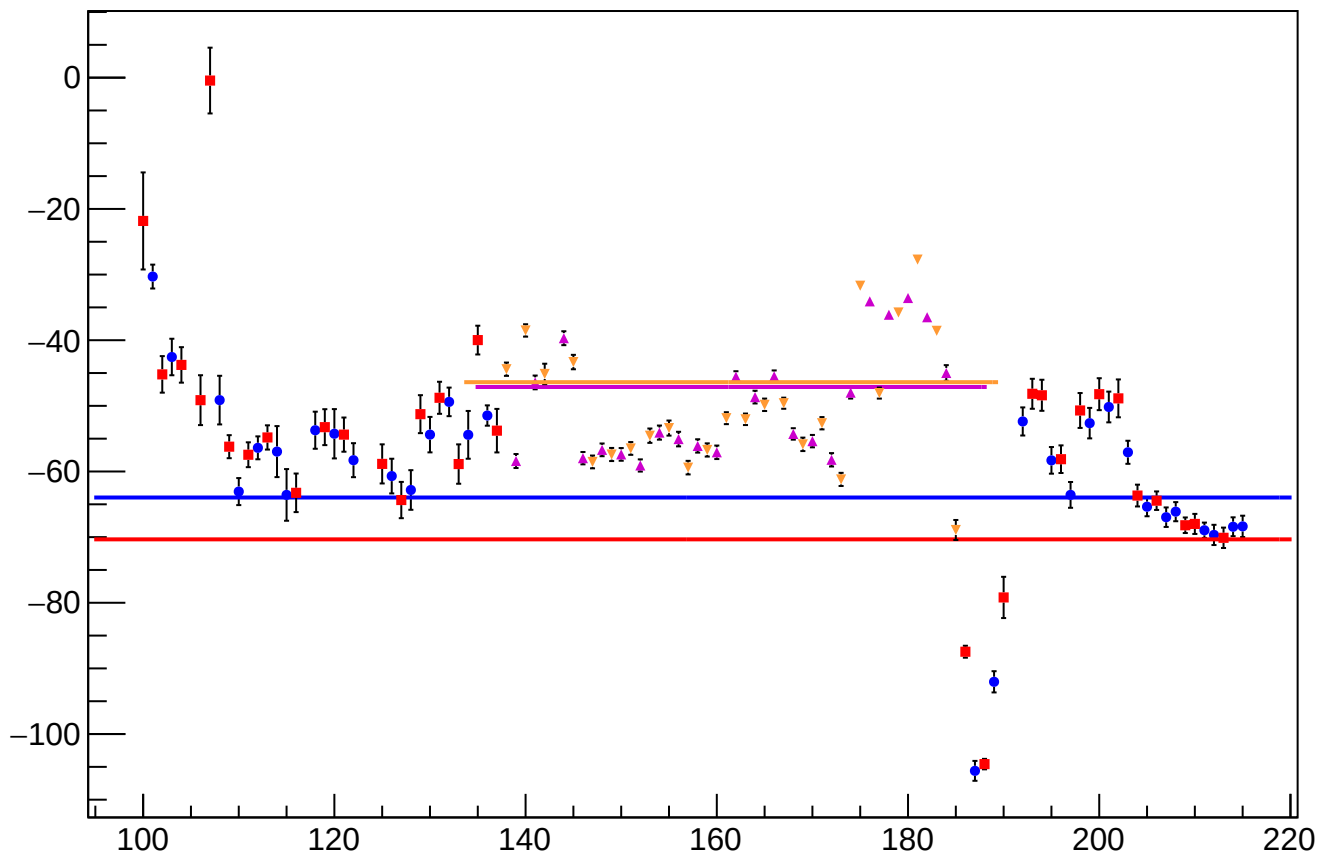
Right: -0.853 ± 0.215 χ^2/NDF : 385.3/62

In: 2.376 ± 0.134 χ^2/NDF : 1657.3/53

Out: 2.332 ± 0.133 χ^2/NDF : 1755.0/55

All: 2.354 ± 0.095 χ^2/NDF : 3412.4/109

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.964 ± 0.348 χ^2/NDF : 1818.9/30

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.340 ± 0.334 χ^2/NDF : 3732.5/31

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

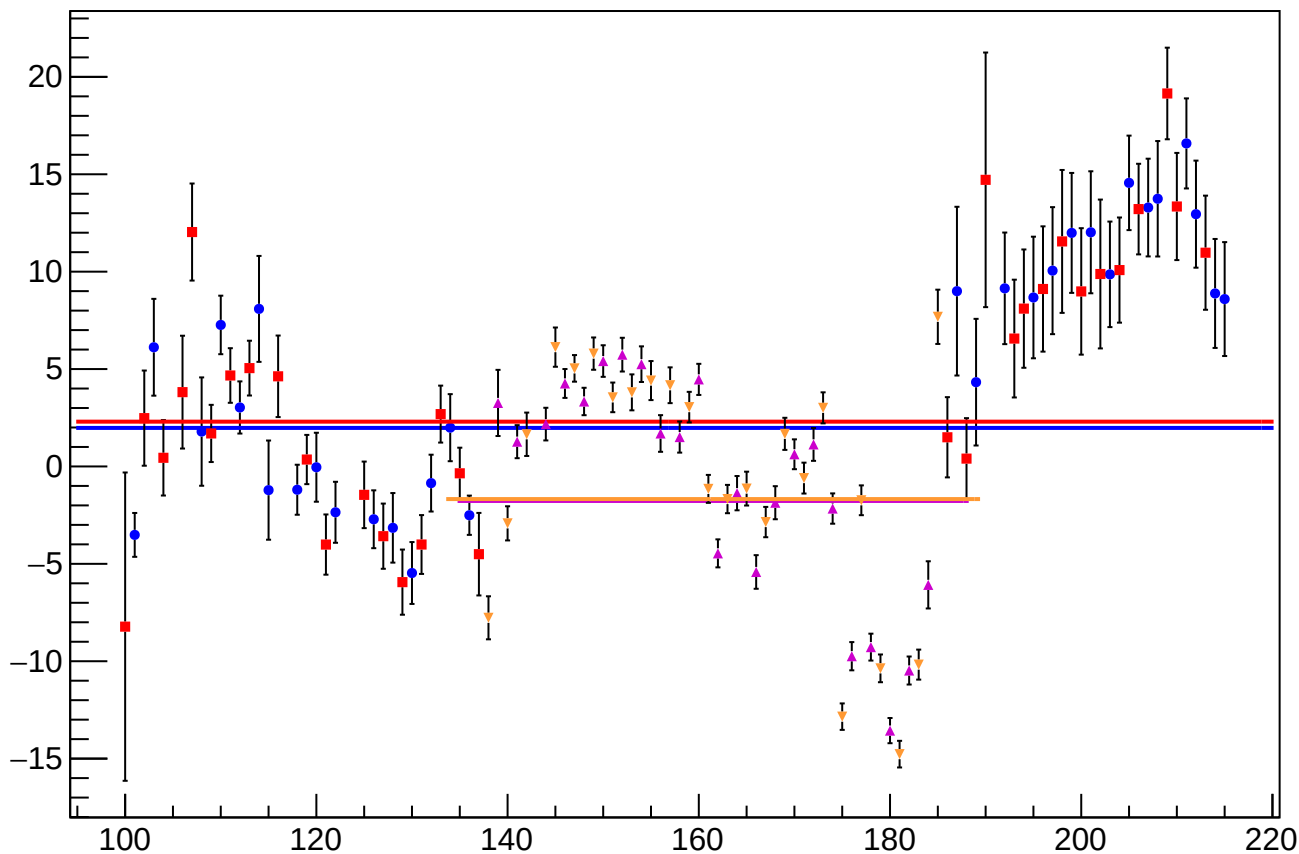
Right: -67.276 ± 0.241 χ^2/NDF : 5726.3/62

In: -50.914 ± 0.165 χ^2/NDF : 6154.1/53

Out: -52.080 ± 0.163 χ^2/NDF : 10932.7/55

All: -51.504 ± 0.116 χ^2/NDF : 17112.2/109

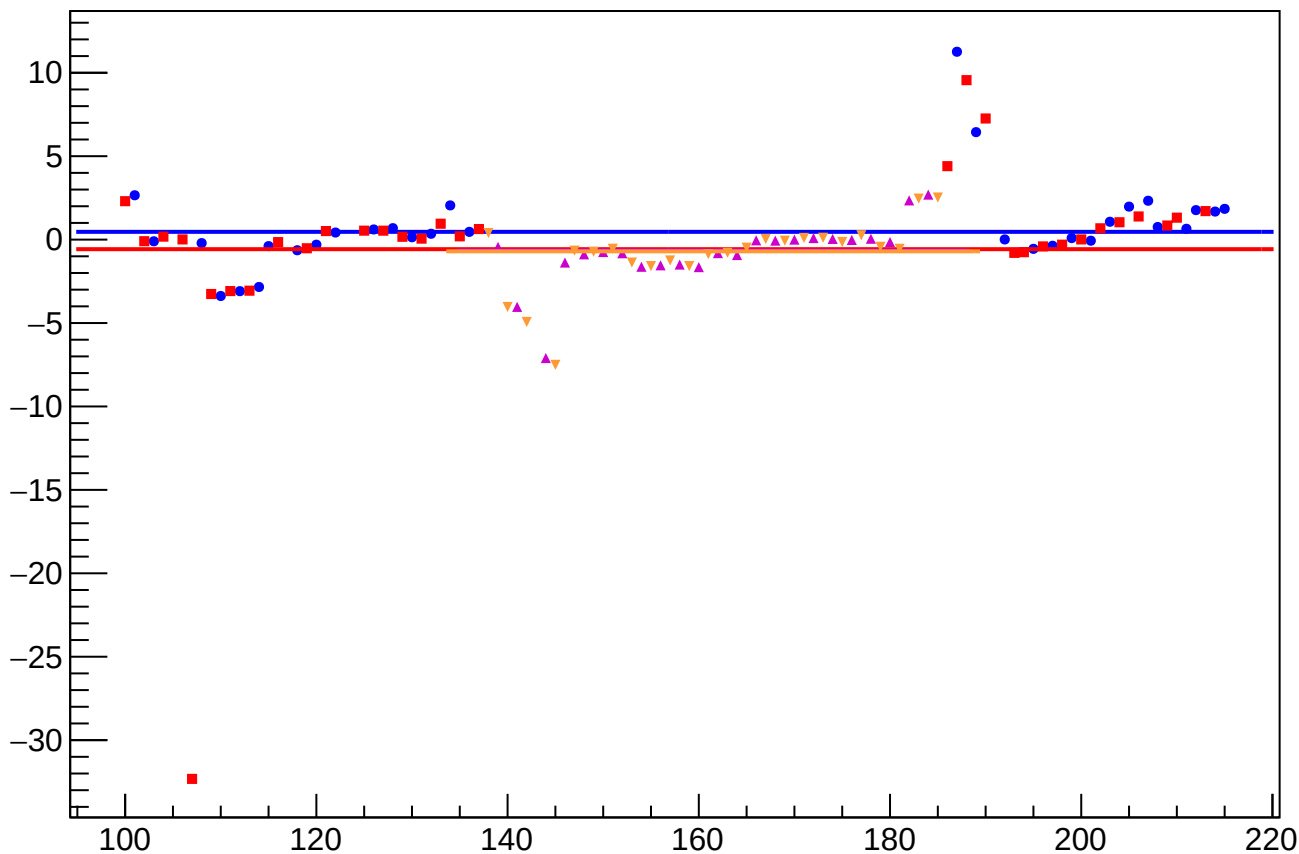
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.978 ± 0.343 $\chi^2/\text{NDF}: 304.6/30$
 Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$
 Right Out: 2.300 ± 0.353 $\chi^2/\text{NDF}: 254.5/31$
 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: 2.135 ± 0.246 $\chi^2/\text{NDF}: 559.5/62$
 In: -1.041 ± 0.152 $\chi^2/\text{NDF}: 1651.8/53$
 Out: -0.947 ± 0.151 $\chi^2/\text{NDF}: 1842.0/55$
 All: -0.994 ± 0.107 $\chi^2/\text{NDF}: 3494.0/109$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.466+/-0.017 χ^2/NDF : 10227.4/30

Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$

Right Out: -0.573 ± 0.017 χ^2/NDF : 94031.1/31

Left In: -0.644+/-0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 χ^2/NDF : 98032.6/46

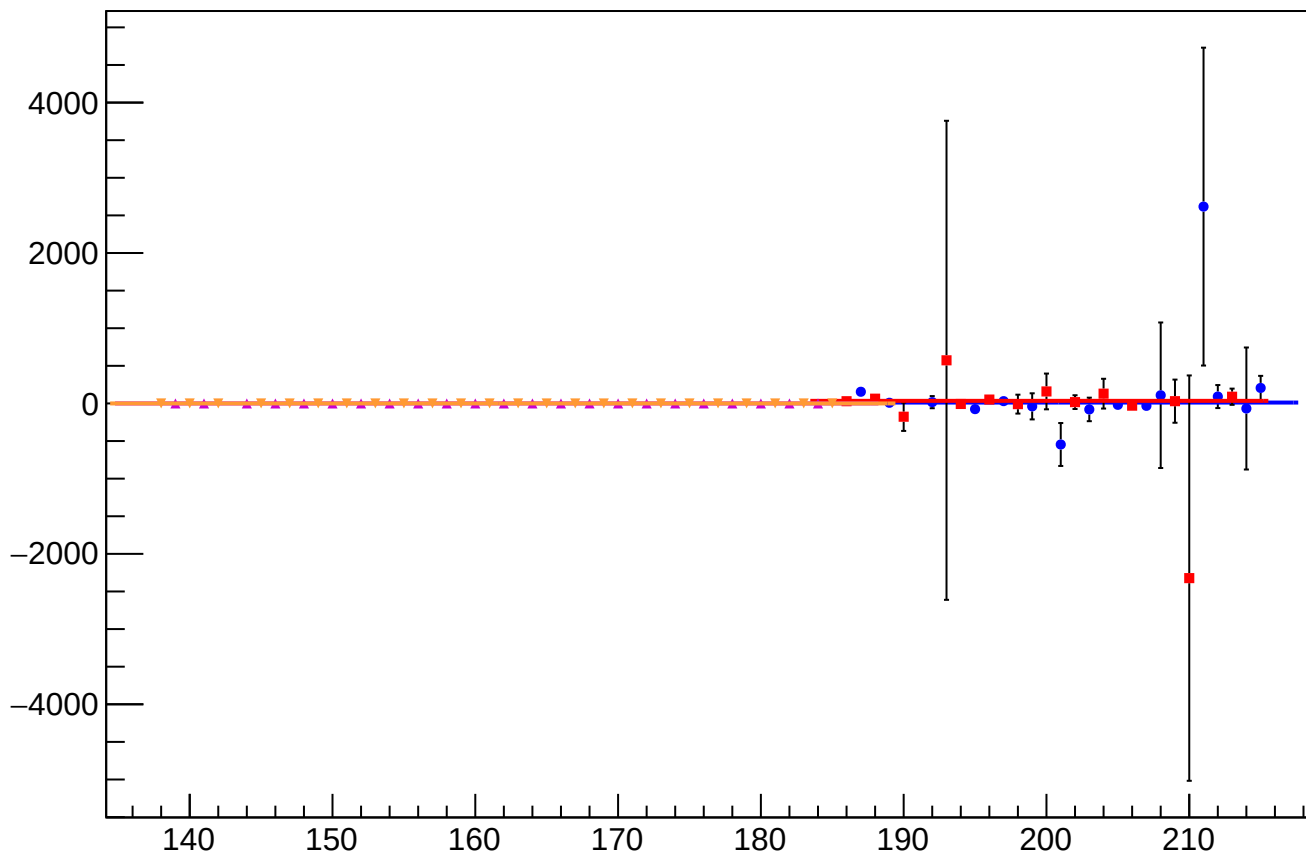
Right: -0.046 ± 0.012 χ^2/NDF : 106049.2/62

In: -0.460+/-0.007 χ^2/NDF :57857.8/53

Out: -0.681+/-0.007 χ^2/NDF :147911.5/55

All: -0.571 ± 0.005 χ^2/NDF : 206265.3/109

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.660+/-15.071 χ^2/NDF : 22.7/14

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 34.398+/-9.632 χ^2/NDF : 7.6/13

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

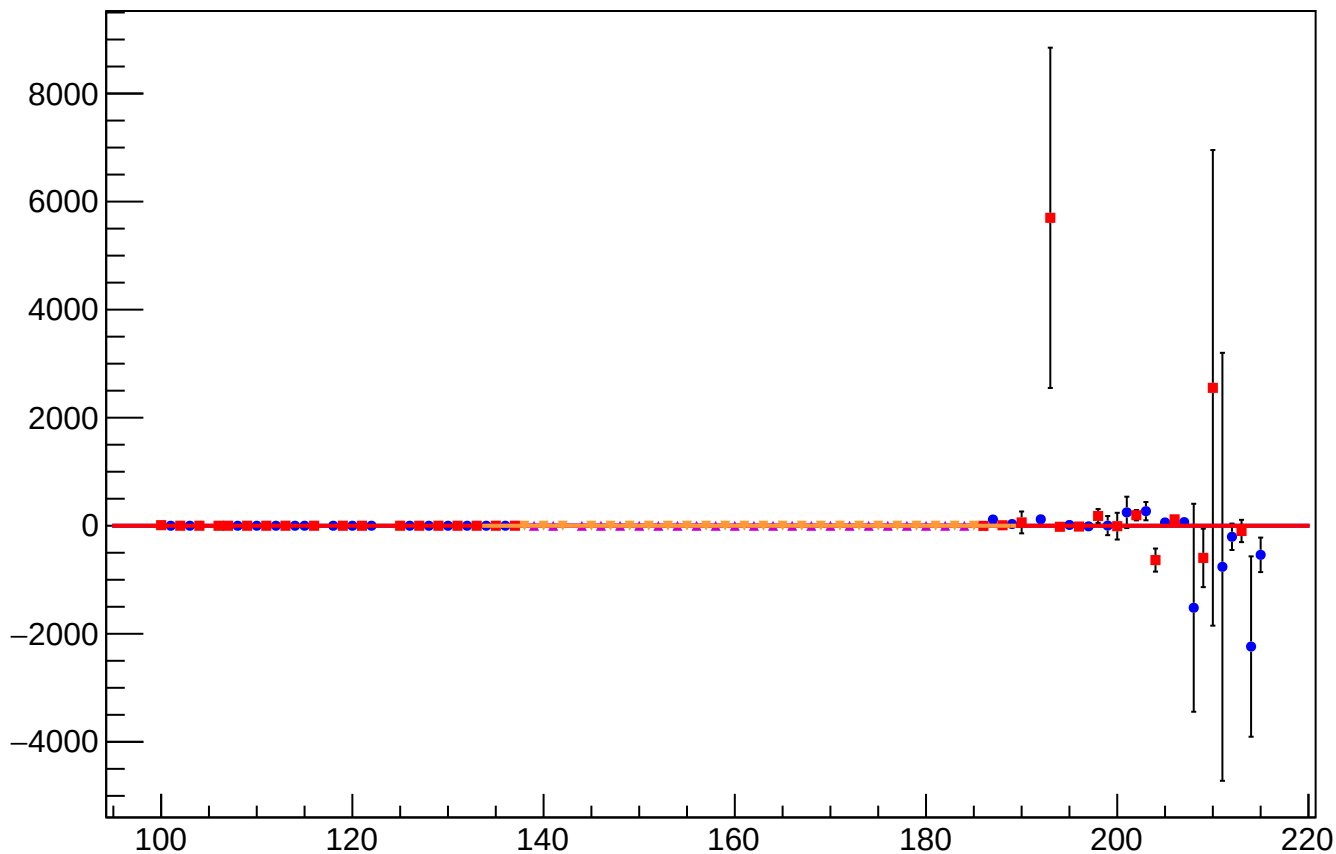
Right: 27.803+/-8.116 χ^2/NDF : 31.9/28

In: -0.010+/-0.018 χ^2/NDF : 58.4/37

Out: -0.037+/-0.018 χ^2/NDF : 55.8/37

All: -0.024+/-0.013 χ^2/NDF : 115.3/75

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 29.5/30

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 36.6/31

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

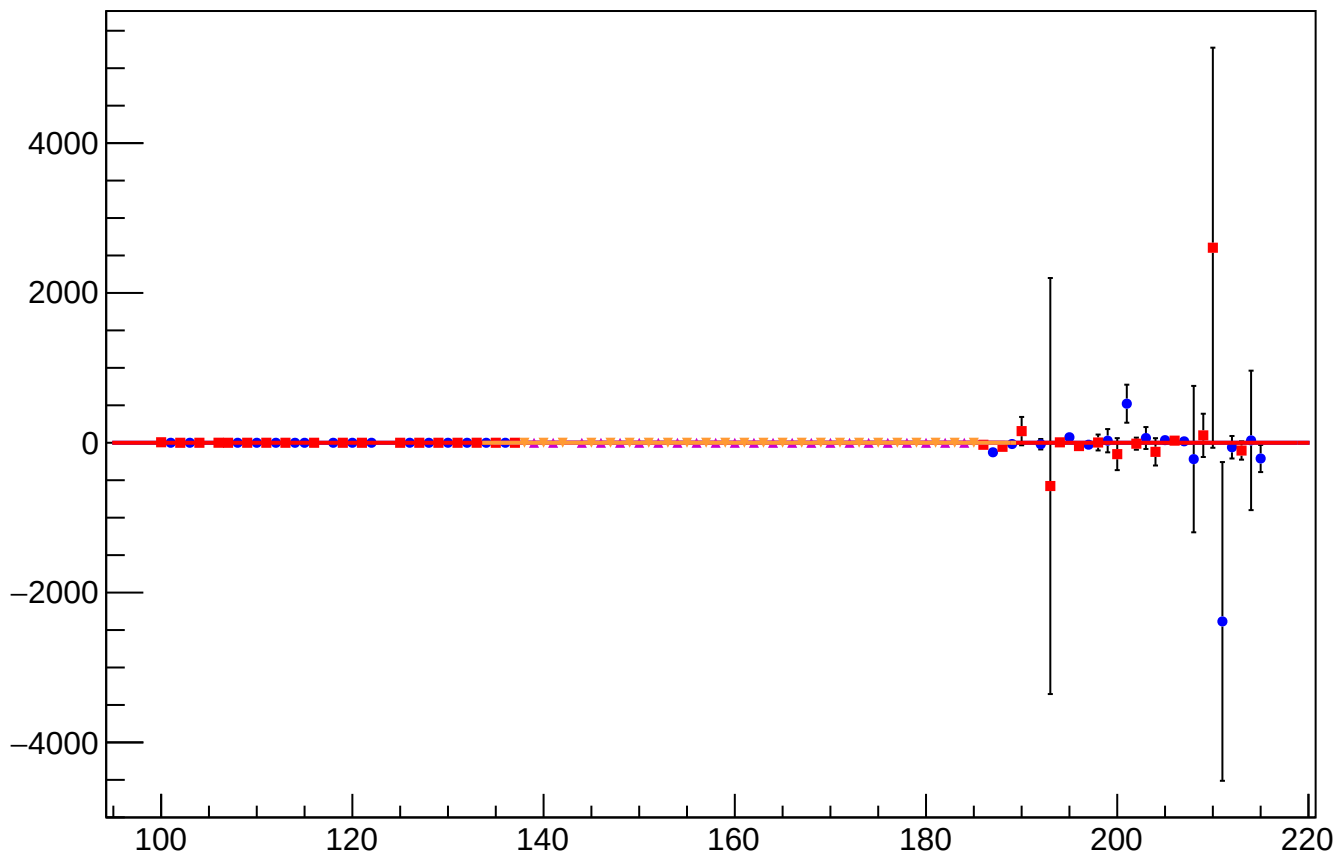
Right: -0.048 ± 0.017 χ^2/NDF : 70.8/62

In: -0.050 ± 0.012 χ^2/NDF : 73.9/53

Out: -0.076 ± 0.012 χ^2/NDF : 64.6/55

All: -0.063 ± 0.009 χ^2/NDF : 140.9/109

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 32.9/30

Left Out: 0.035+/-0.018 χ^2/NDF : 32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 32.5/31

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

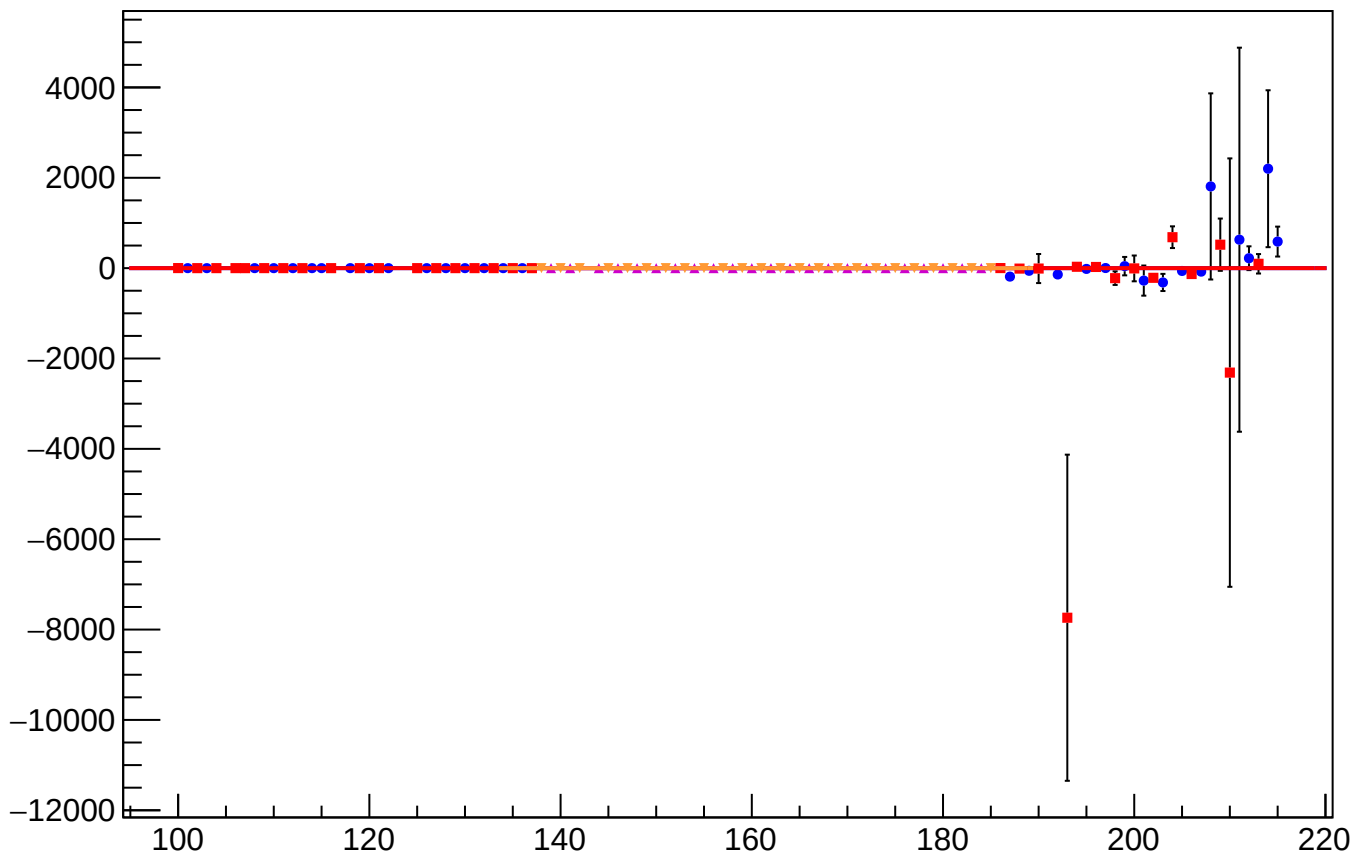
Right: 0.023+/-0.031 χ^2/NDF : 65.5/62

In: -0.005+/-0.017 χ^2/NDF : 70.1/53

Out: 0.035+/-0.017 χ^2/NDF : 64.7/55

All: 0.015+/-0.012 χ^2/NDF : 137.6/109

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 30.9/30

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 32.0/31

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

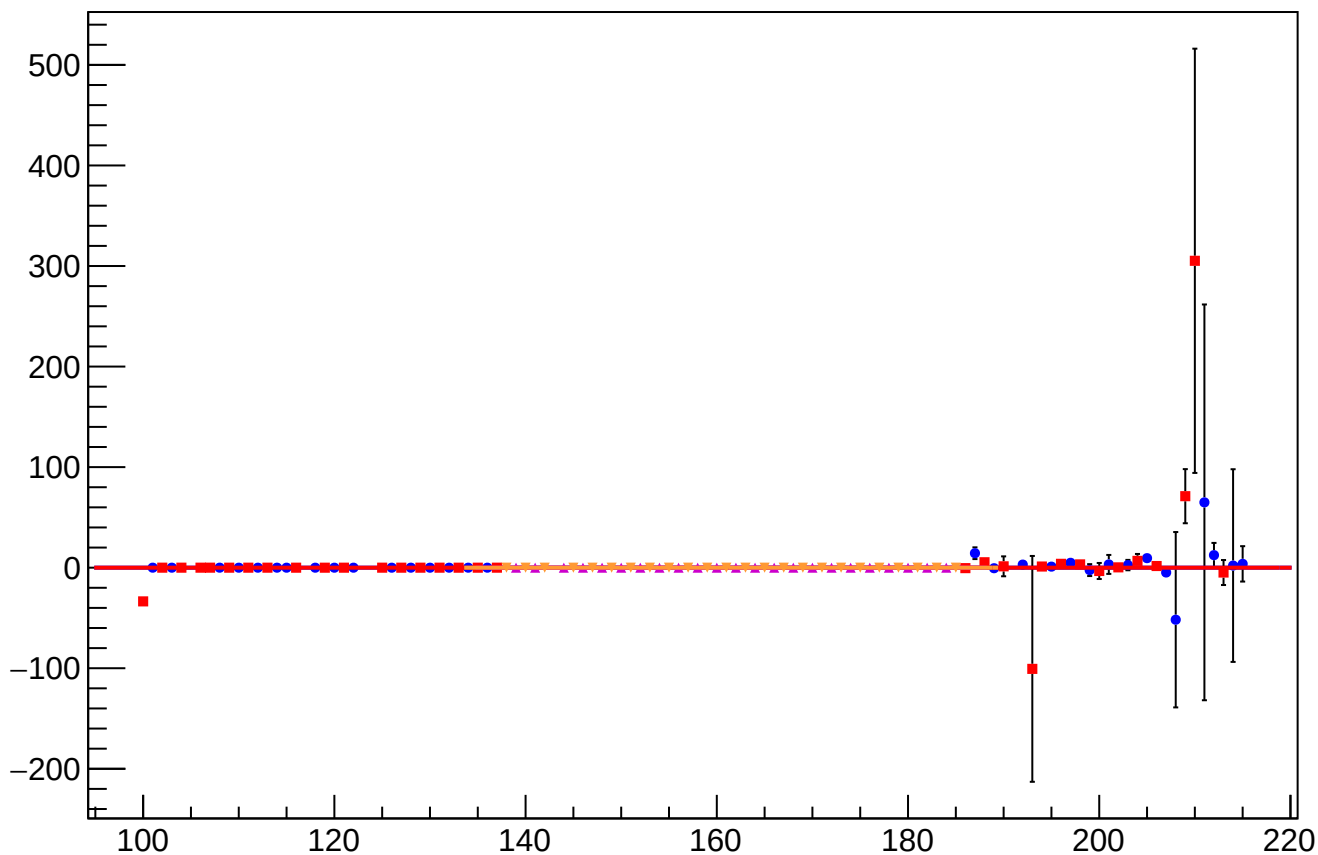
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 68.9/62

In: 0.053 $\pm$ 0.014 χ^2 /NDF:79.5/53

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:60.0/55

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 143.1/109

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/30

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26530.8/31

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

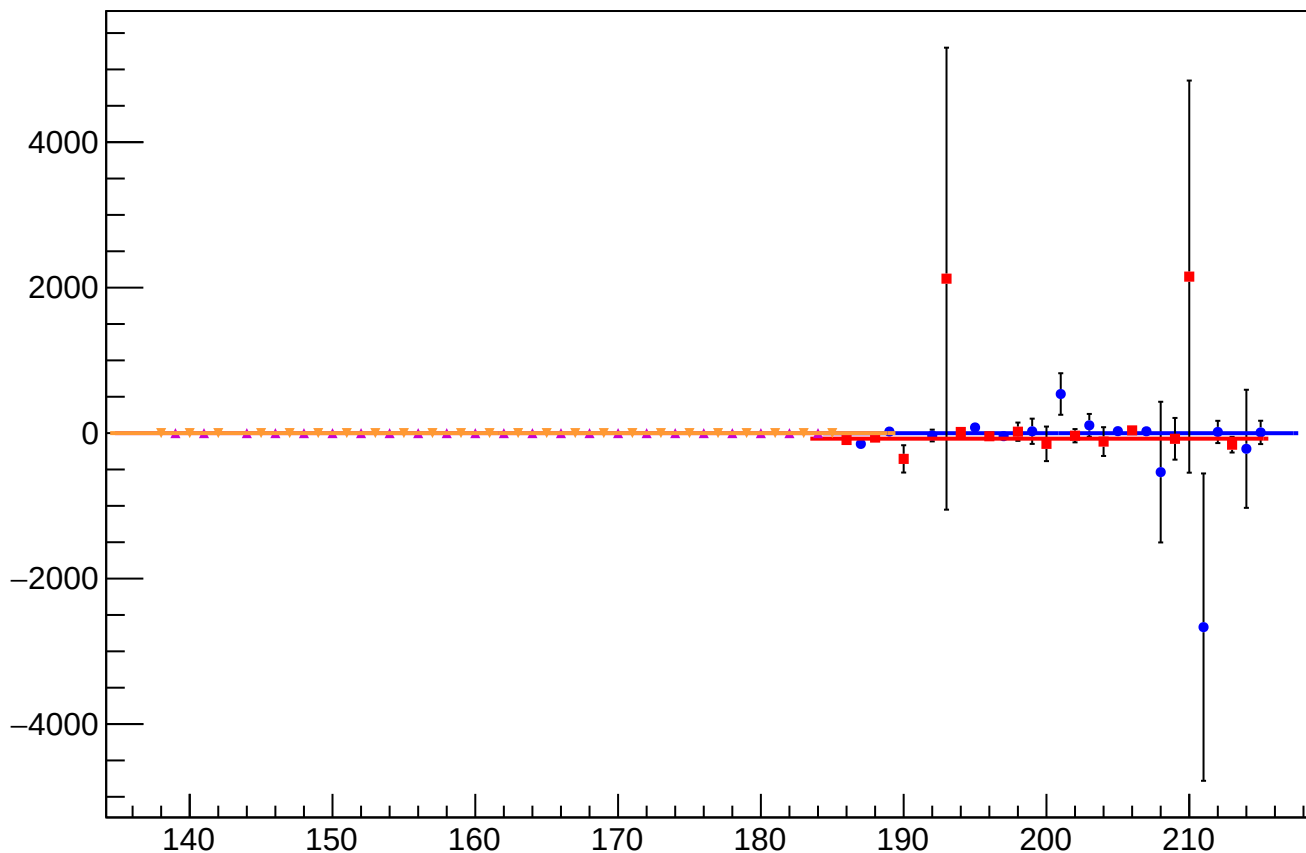
Right: -0.006 ± 0.001 χ^2/NDF : 26578.7/62

In: -0.001 ± 0.001 χ^2/NDF : 81.8/53

Out: -0.001 ± 0.001 χ^2/NDF : 26569.5/55

All: -0.001 ± 0.000 χ^2/NDF : 26651.3/109

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.167 ± 15.066 $\chi^2/\text{NDF}: 21.8/14$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -76.199 ± 9.635 $\chi^2/\text{NDF}: 16.6/13$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

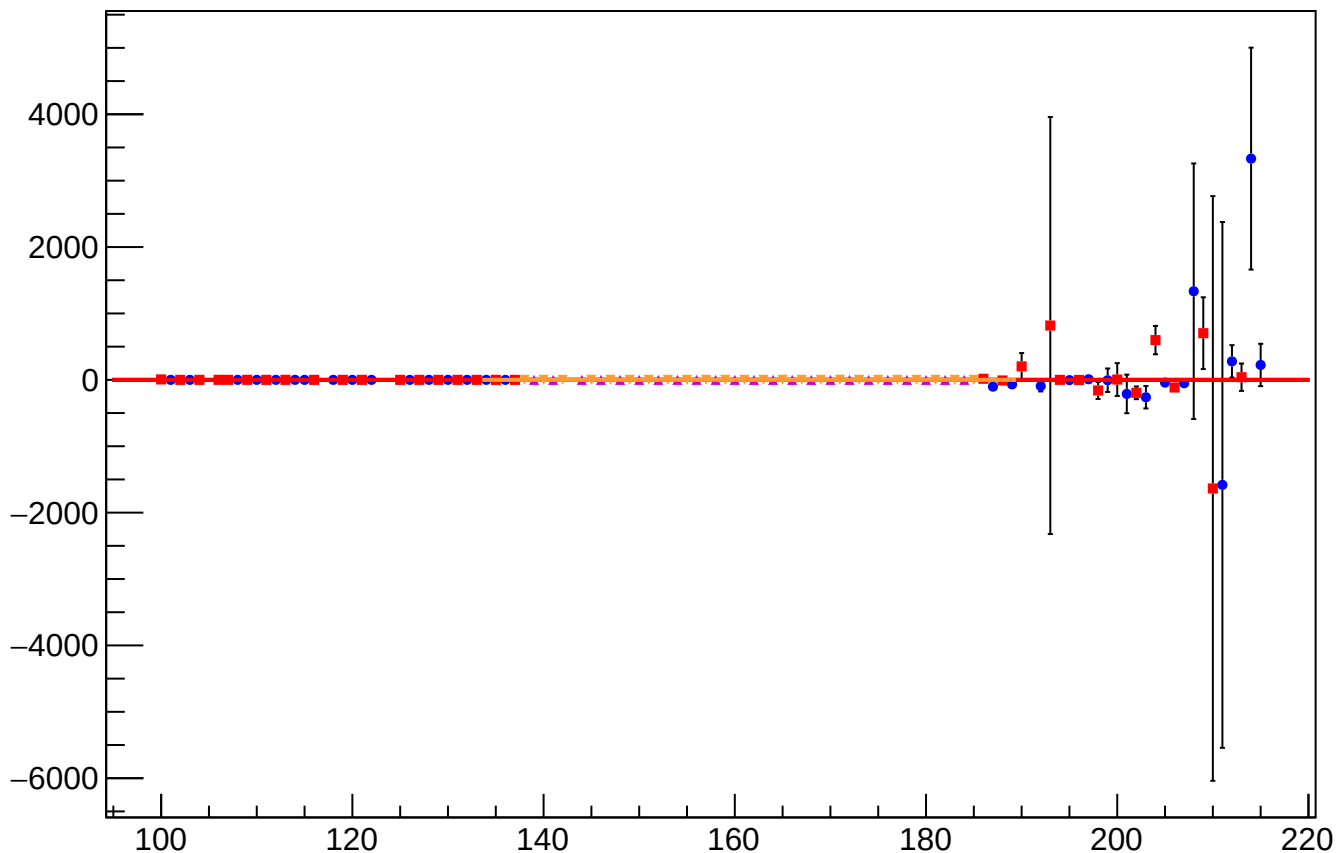
Right: -54.421 ± 8.117 $\chi^2/\text{NDF}: 56.0/28$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 56.9/37$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 116.4/37$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 176.3/75$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 43.7/30

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 49.6/31

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

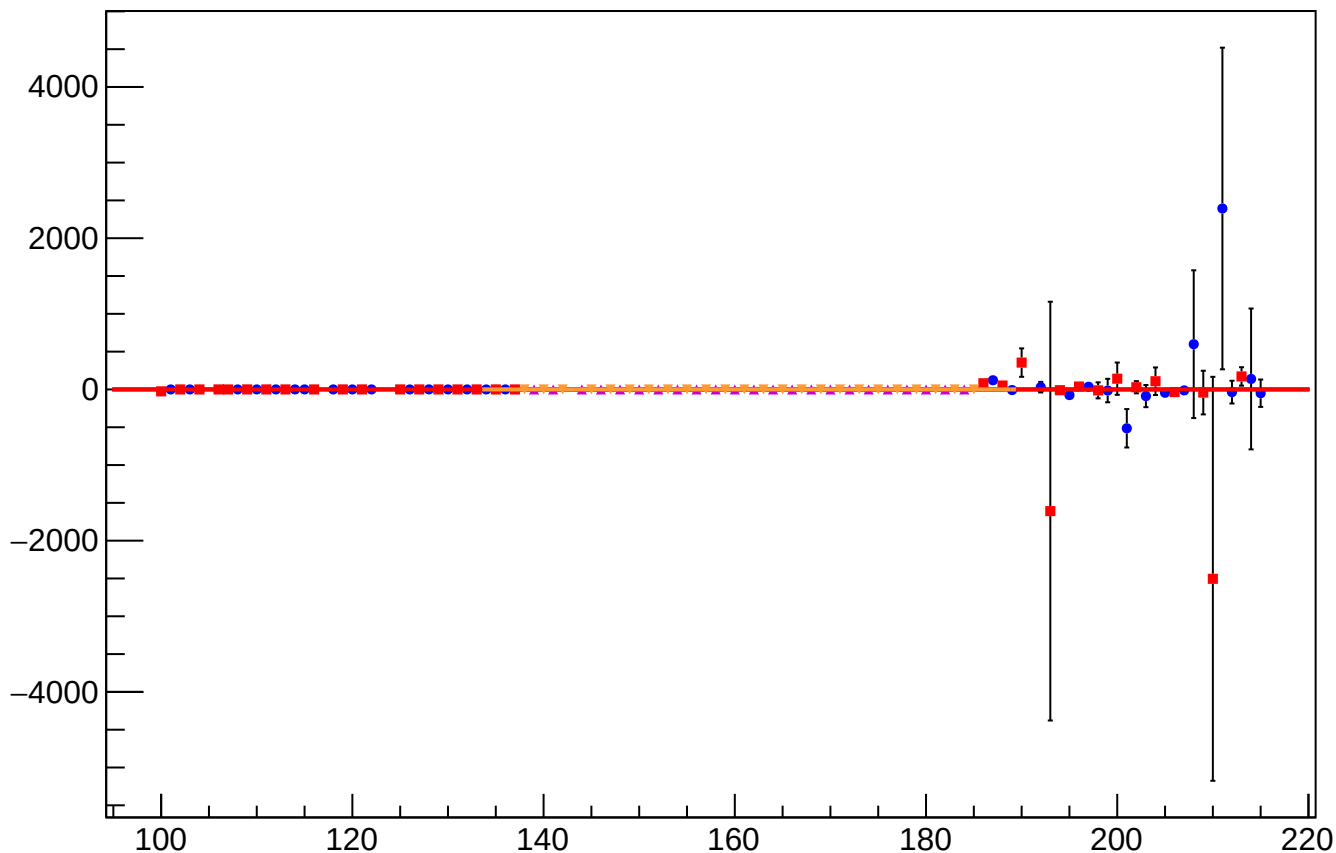
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 94.0/62

In: 0.006 $\pm$ 0.012 χ^2 /NDF:93.2/53

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:81.9/55

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 175.2/109

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 52.0/30

Left Out: 0.048+/-0.018 χ^2/NDF : 35.4/23

Right Out: 0.197+/-0.045 χ^2/NDF : 111.5/31

Left In: 0.020+/-0.018 χ^2/NDF : 35.8/22

Left: 0.034+/-0.013 χ^2/NDF : 72.4/46

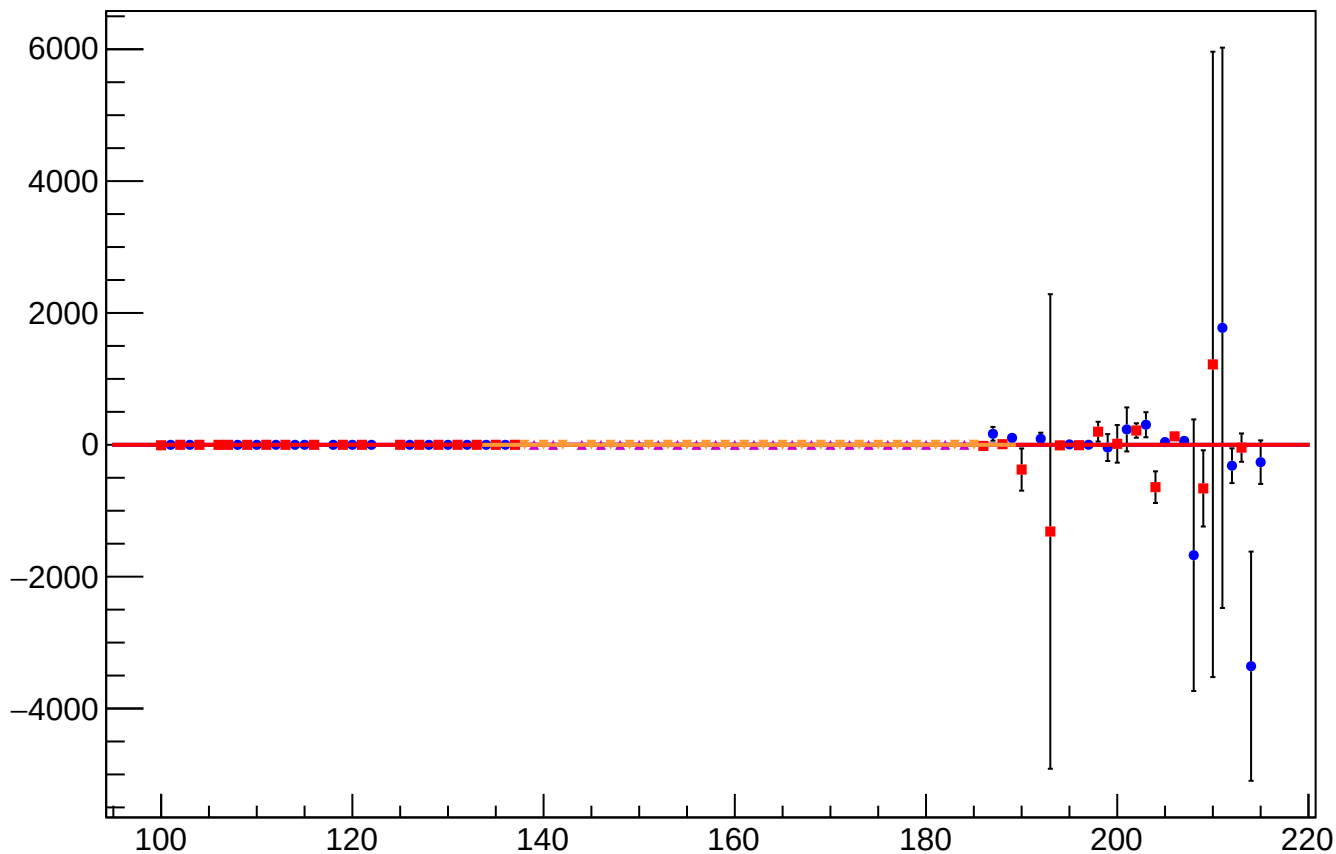
Right: 0.176+/-0.031 χ^2/NDF : 163.9/62

In: 0.040+/-0.017 χ^2/NDF : 96.4/53

Out: 0.068+/-0.017 χ^2/NDF : 156.4/55

All: 0.054+/-0.012 χ^2/NDF : 254.2/109

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 43.5/30

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 46.1/31

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

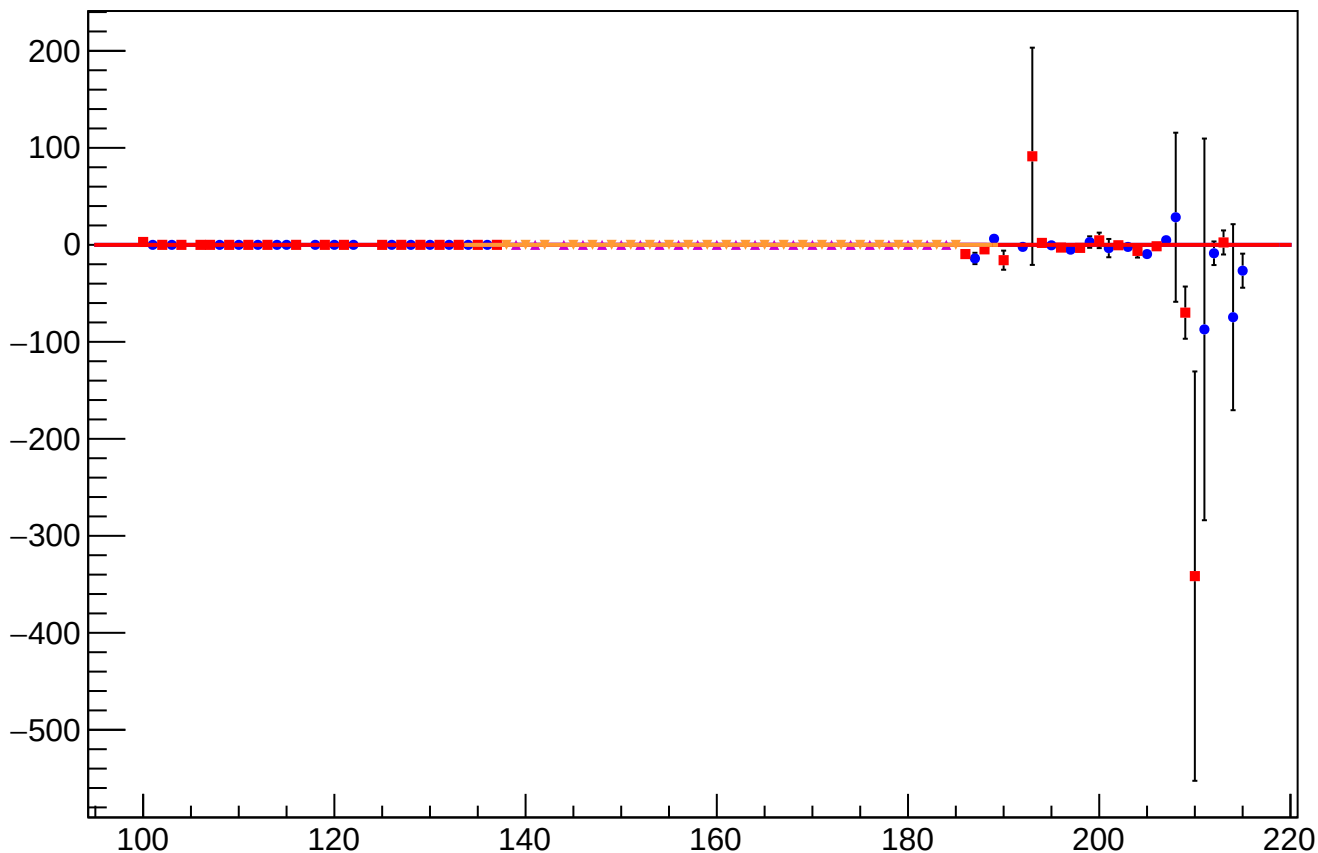
Right: -0.027 ± 0.020 χ^2/NDF : 90.4/62

In: 0.002 ± 0.014 χ^2/NDF : 93.8/53

Out: 0.005 ± 0.014 χ^2/NDF : 83.7/55

All: 0.004 ± 0.010 χ^2/NDF : 177.5/109

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 61.3/30

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 224.3/31

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

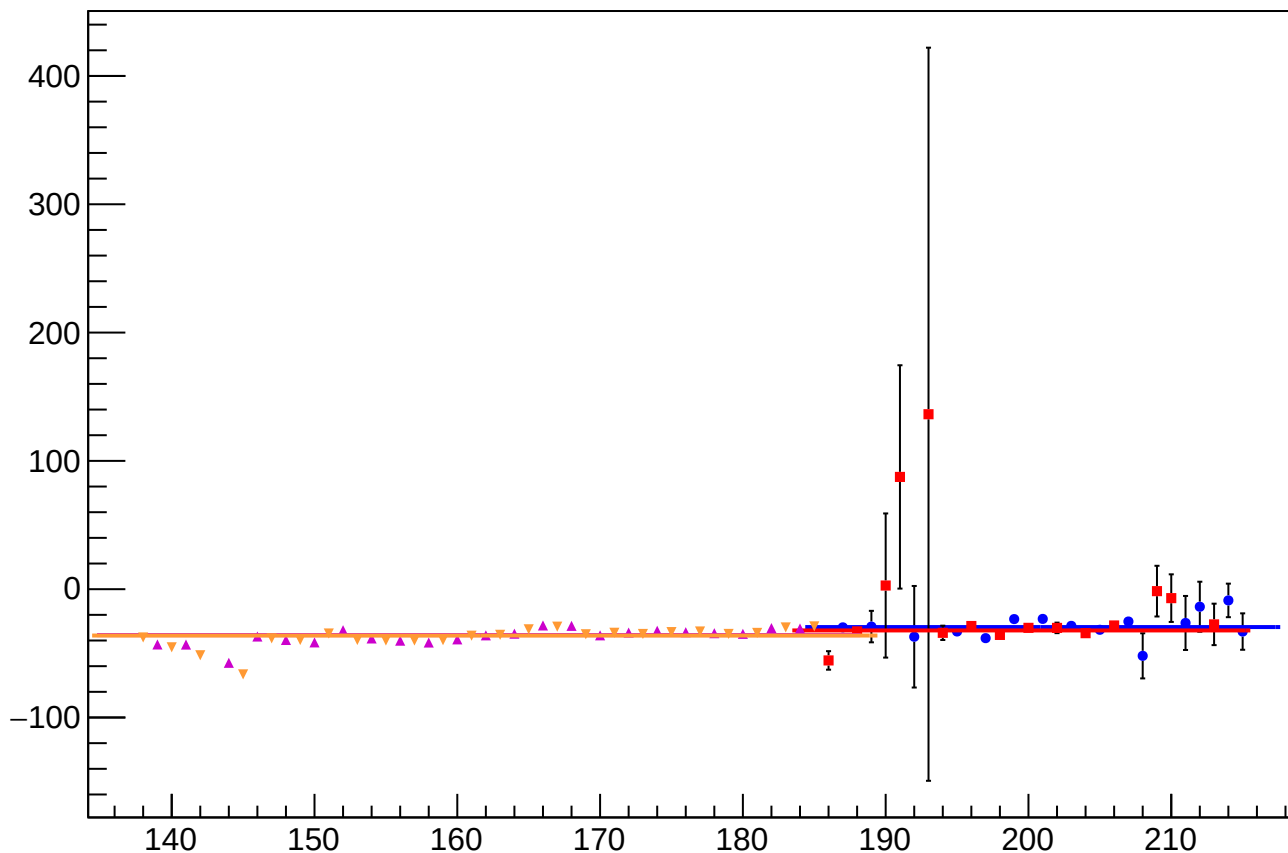
Right: -0.006 ± 0.001 χ^2/NDF : 285.6/62

In: -0.008 ± 0.001 χ^2/NDF : 101.1/53

Out: -0.008 ± 0.001 χ^2/NDF : 258.3/55

All: -0.008 ± 0.000 χ^2/NDF : 359.6/109

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.516 ± 0.853 χ^2/NDF : 29.0/14

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.143 ± 0.806 χ^2/NDF : 25.1/14

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

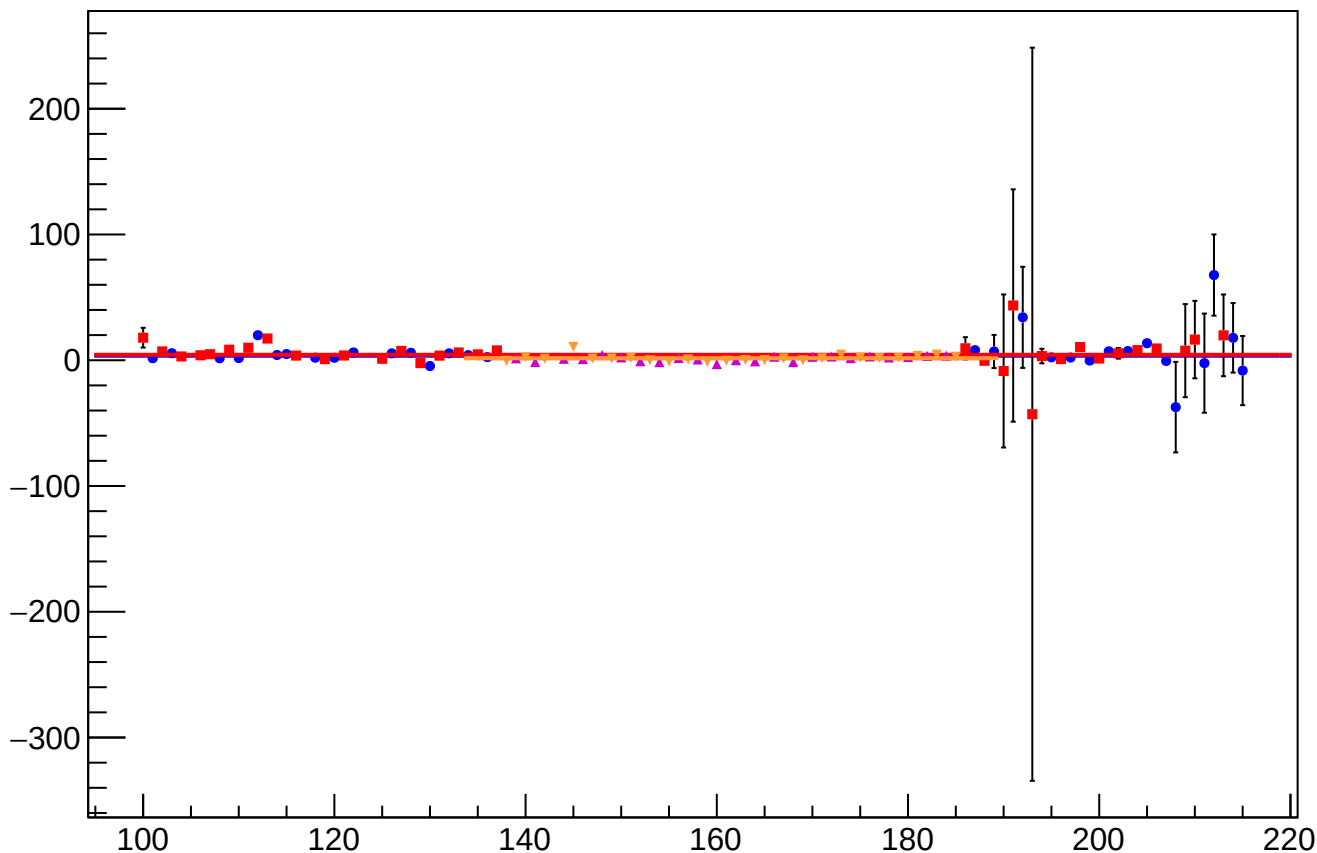
Right: -30.904 ± 0.586 χ^2/NDF : 59.1/29

In: -35.479 ± 0.187 χ^2/NDF : 934.4/37

Out: -35.907 ± 0.187 χ^2/NDF : 1163.1/38

All: -35.693 ± 0.132 χ^2/NDF : 2100.1/76

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 $\pm$ 0.217 χ^2 /NDF: 462.6/30

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.350 $\pm$ 0.221 χ^2 /NDF: 369.4/32

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

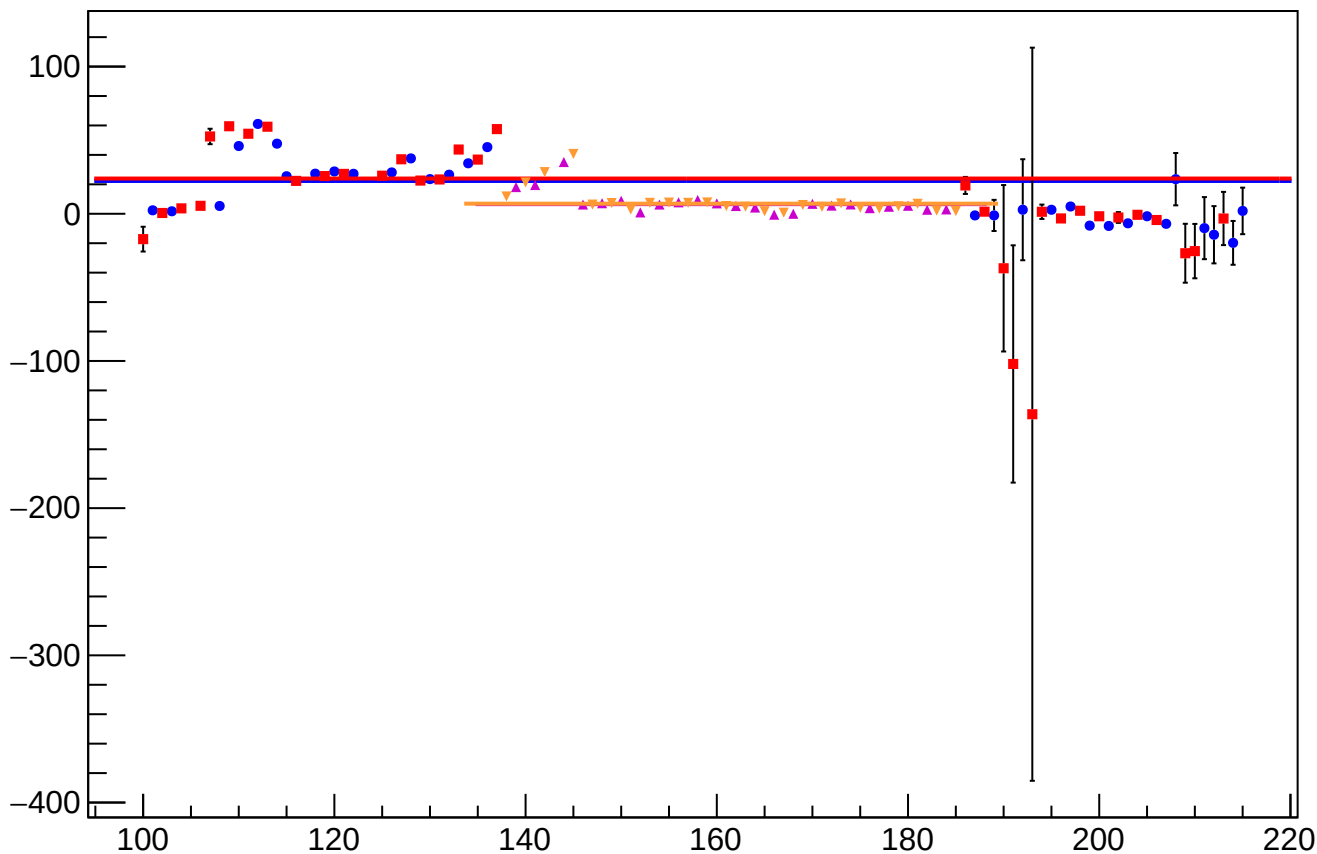
Right: 3.970 $\pm$ 0.155 χ^2 /NDF: 837.8/63

In: 2.274 $\pm$ 0.123 χ^2 /NDF:681.3/53

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:640.5/56

All: 2.375 $\pm$ 0.087 χ^2 /NDF: 1323.2/110

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.288 $\pm$ 0.370 χ^2 /NDF: 2821.6/30

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.935 $\pm$ 0.362 χ^2 /NDF: 3299.5/32

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

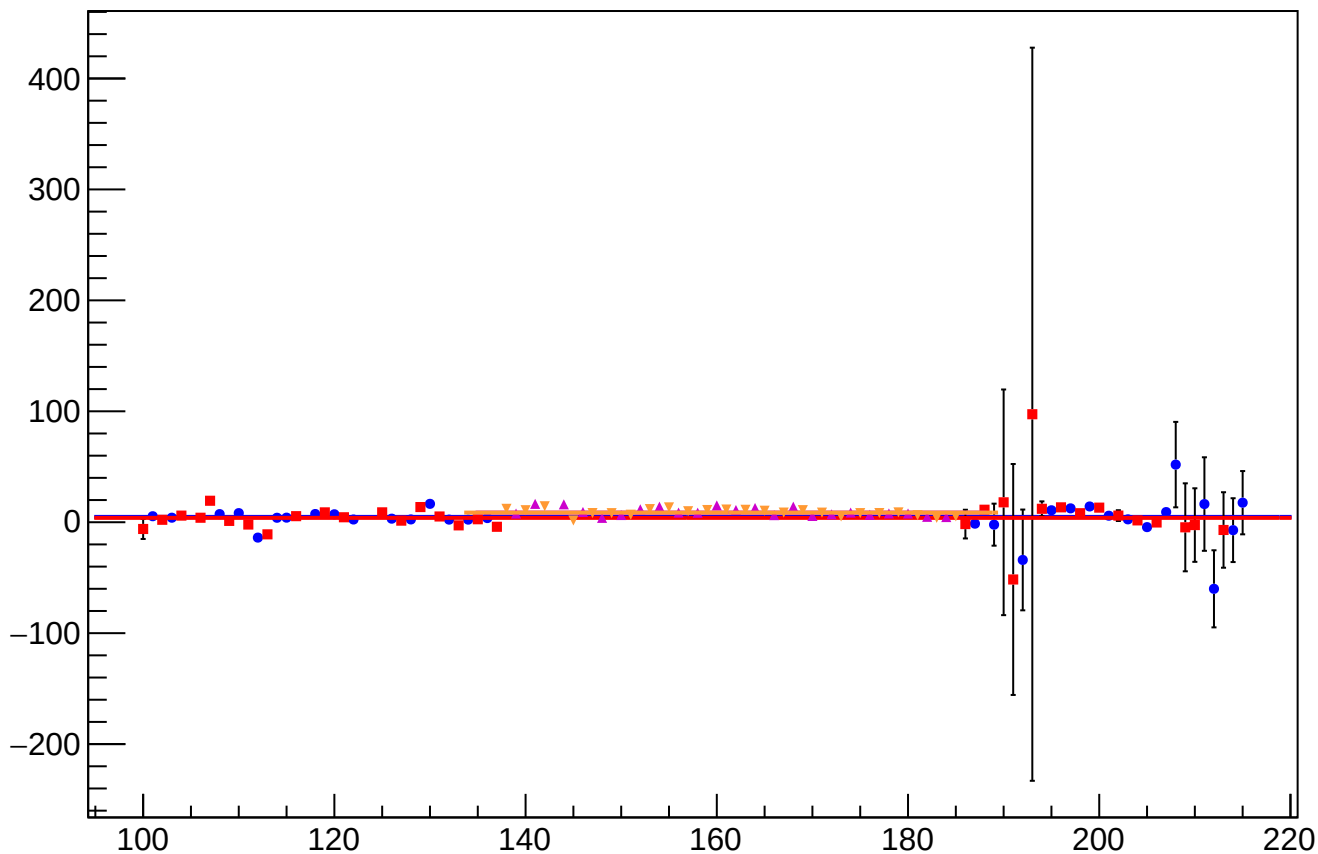
Right: 23.130 $\pm$ 0.259 χ^2 /NDF: 6131.2/63

In: 9.839 $\pm$ 0.169 χ^2 /NDF:5281.8/53

Out: 10.600 $\pm$ 0.169 χ^2 /NDF:6335.4/56

All: 10.220 $\pm$ 0.120 χ^2 /NDF: 11627.4/110

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.804 $\pm$ 0.250 χ^2 /NDF: 576.6/30

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.936 $\pm$ 0.254 χ^2 /NDF: 589.3/32

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

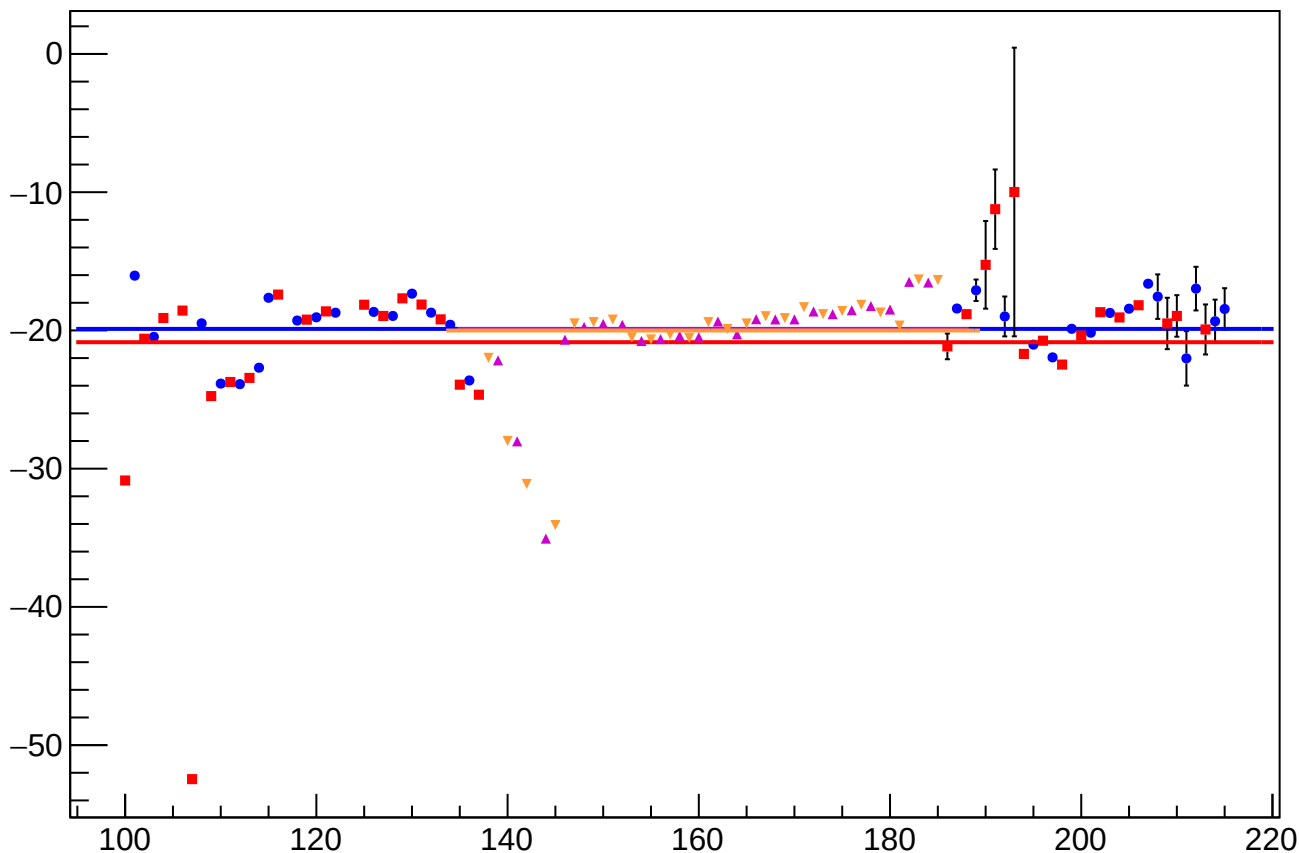
Right: 4.378 $\pm$ 0.178 χ^2 /NDF: 1171.8/63

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1176.6/53

Out: 7.237 $\pm$ 0.141 χ^2 /NDF:1073.1/56

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2250.8/110

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 ± 0.015 $\chi^2/\text{NDF}: 27148.7/30$

Left Out: -20.006 ± 0.008 $\chi^2/\text{NDF}: 171763.9/23$

Right Out: -20.851 ± 0.015 $\chi^2/\text{NDF}: 95240.6/32$

Left In: -19.898 ± 0.008 $\chi^2/\text{NDF}: 144191.9/22$

Left: -19.951 ± 0.006 $\chi^2/\text{NDF}: 316049.4/46$

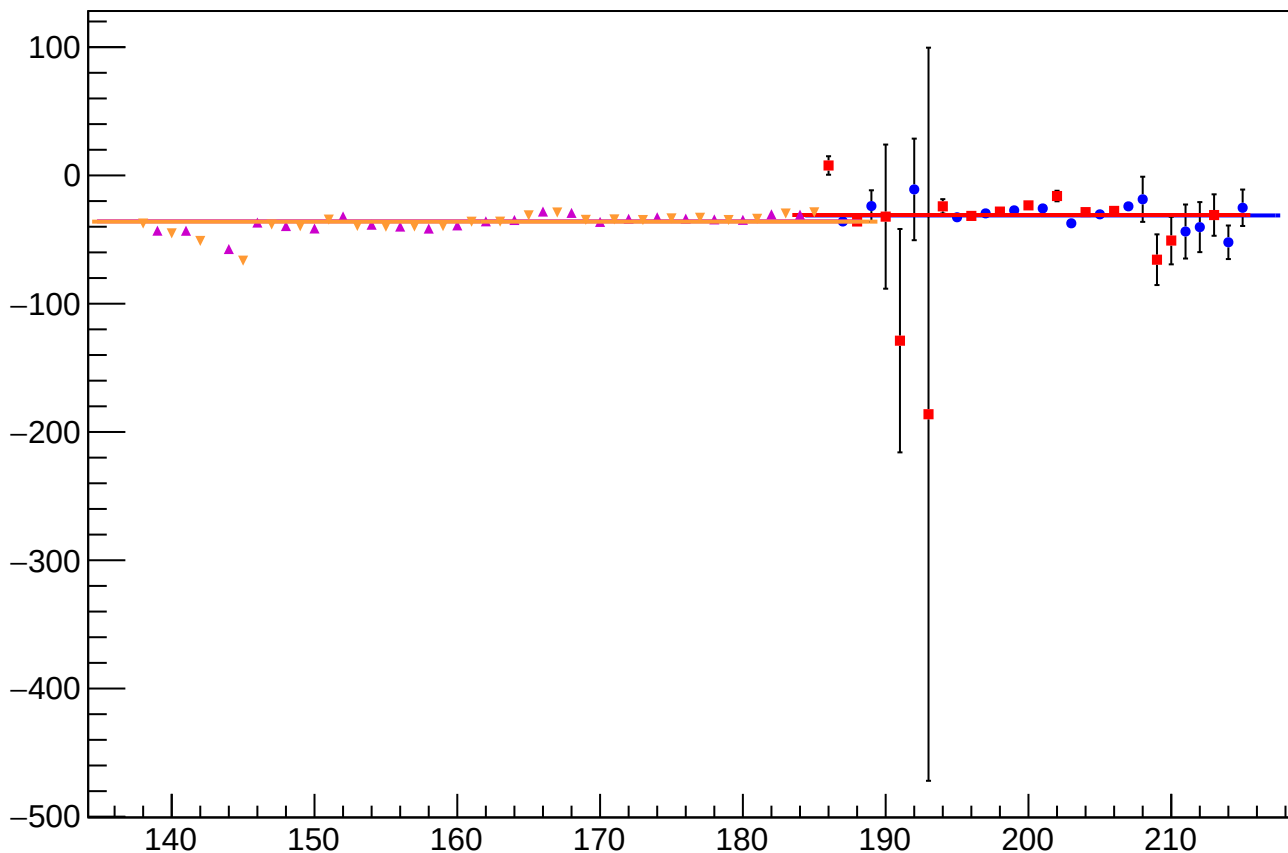
Right: -20.367 ± 0.011 $\chi^2/\text{NDF}: 124479.3/63$

In: -19.896 ± 0.007 $\chi^2/\text{NDF}: 171340.9/53$

Out: -20.190 ± 0.007 $\chi^2/\text{NDF}: 269512.3/56$

All: -20.042 ± 0.005 $\chi^2/\text{NDF}: 441748.3/110$

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

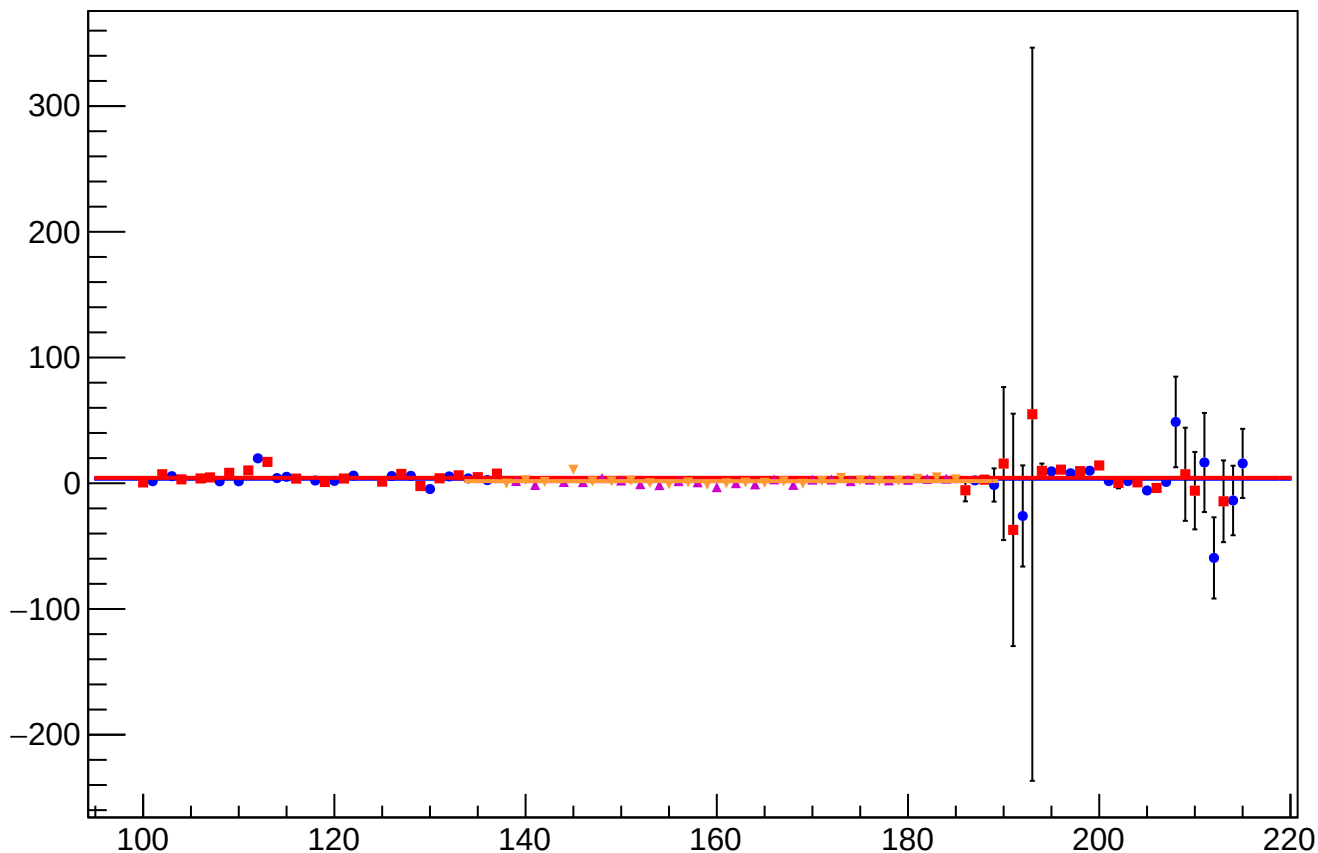


Right In: -31.198 ± 0.856 χ^2/NDF : 31.3/14
 Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23
 Right Out: -30.852 ± 0.808 χ^2/NDF : 76.2/14
 Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46
 Right: -31.015 ± 0.588 χ^2/NDF : 107.6/29
 In: -35.549 ± 0.187 χ^2/NDF : 901.1/37
 Out: -35.754 ± 0.187 χ^2/NDF : 1236.3/38

All: -35.652 ± 0.132 χ^2/NDF : 2138.0/76

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 $\pm$ 0.217 χ^2 /NDF: 462.1/30

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.320 $\pm$ 0.217 χ^2 /NDF: 378.7/32

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

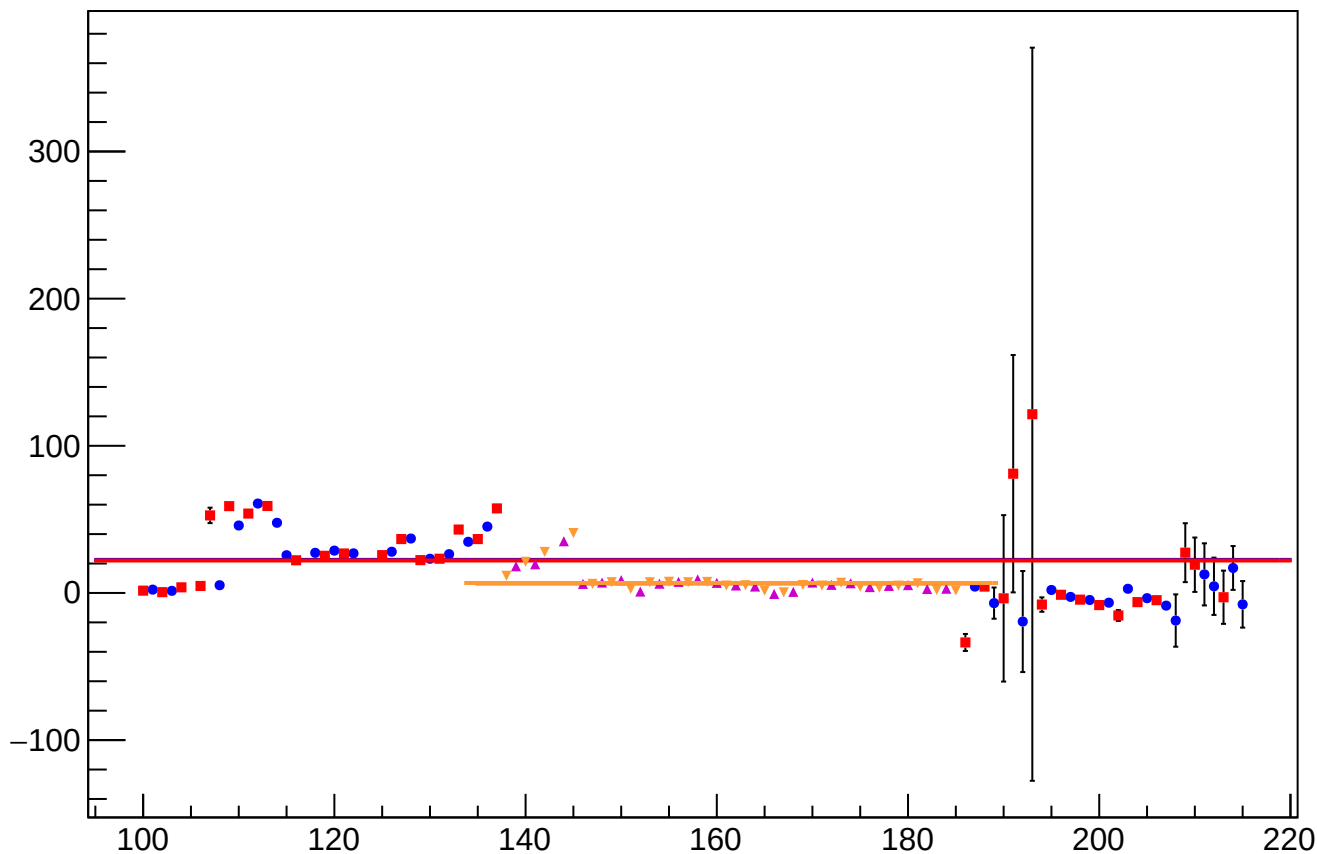
Right: 3.943 $\pm$ 0.153 χ^2 /NDF: 846.8/63

In: 2.305 $\pm$ 0.123 χ^2 /NDF:675.1/53

Out: 2.545 $\pm$ 0.122 χ^2 /NDF:644.7/56

All: 2.426 $\pm$ 0.087 χ^2 /NDF: 1321.7/110

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.464 $\pm$ 0.370 χ^2 /NDF: 2704.5/30

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF: 1297.7/23

Right Out: 22.054 $\pm$ 0.349 χ^2 /NDF: 3661.2/32

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF: 1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

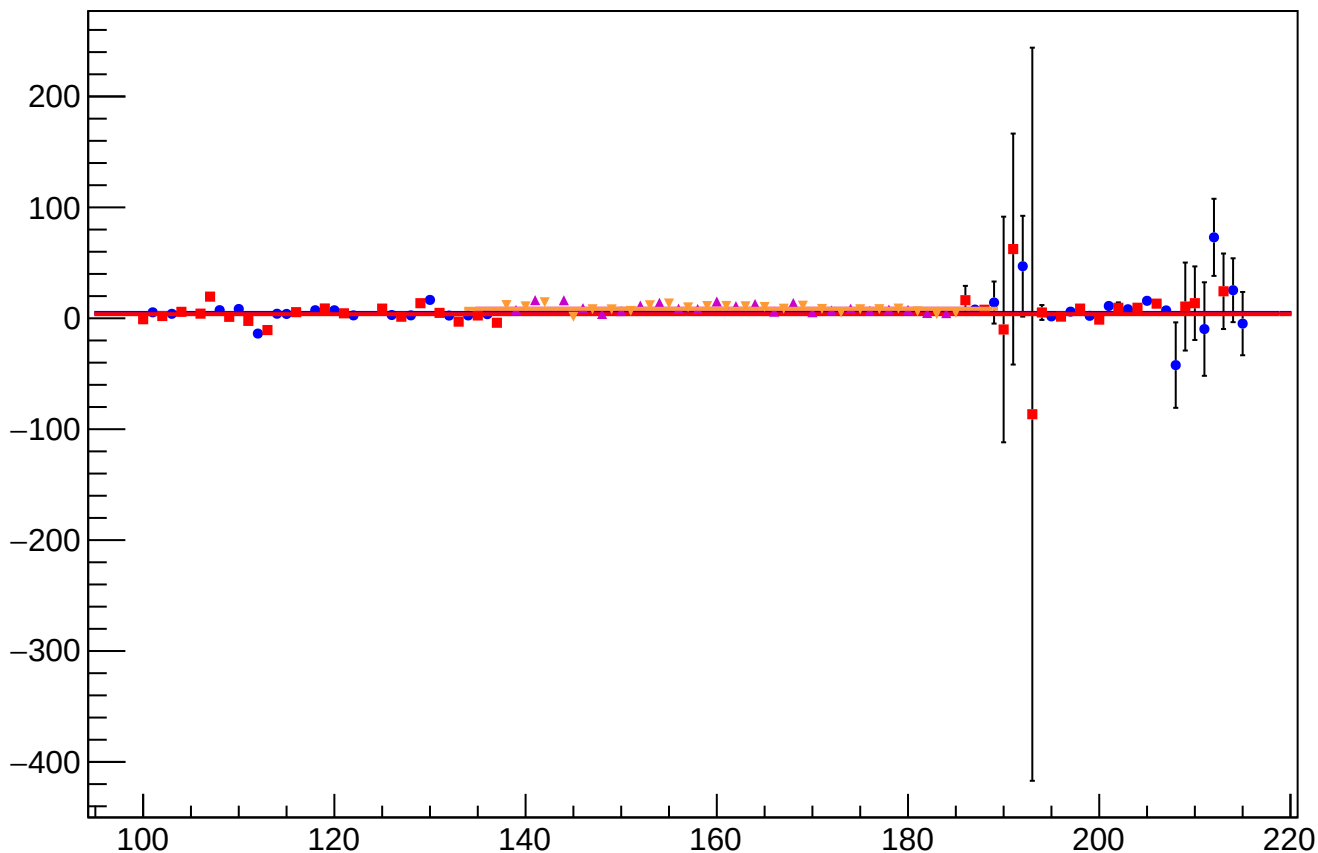
Right: 22.247 $\pm$ 0.254 χ^2 /NDF: 6366.3/63

In: 9.868 $\pm$ 0.169 χ^2 /NDF: 5190.8/53

Out: 10.309 $\pm$ 0.168 χ^2 /NDF: 6432.7/56

All: 10.091 $\pm$ 0.119 χ^2 /NDF: 11626.9/110

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.849 $\pm$ 0.250 χ^2 /NDF: 565.0/30

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF: 245.5/23

Right Out: 3.699 $\pm$ 0.250 χ^2 /NDF: 589.4/32

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

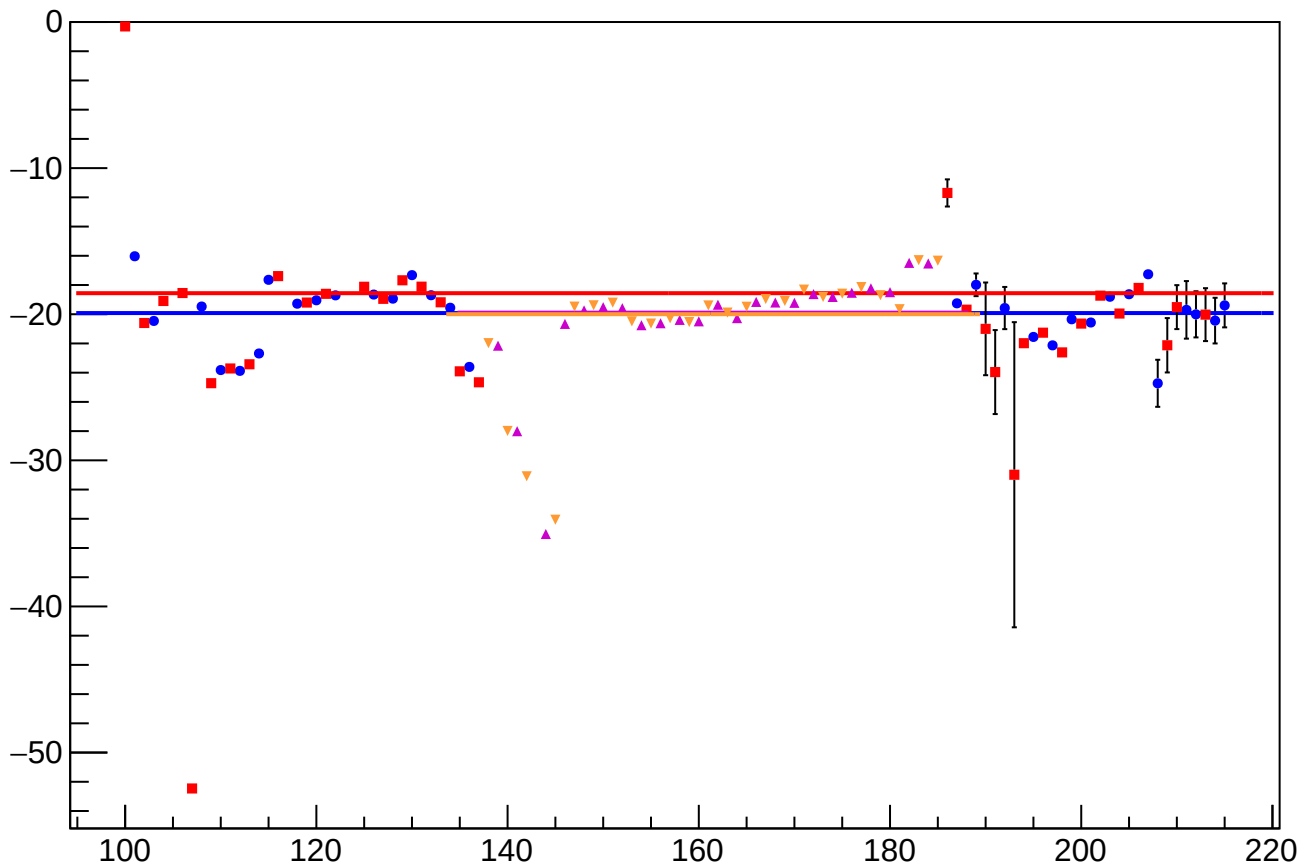
Right: 4.275 $\pm$ 0.177 χ^2 /NDF: 1165.0/63

In: 7.402 $\pm$ 0.141 χ^2 /NDF: 1159.6/53

Out: 7.056 $\pm$ 0.140 χ^2 /NDF: 1097.0/56

All: 7.228 $\pm$ 0.099 χ^2 /NDF: 2259.6/110

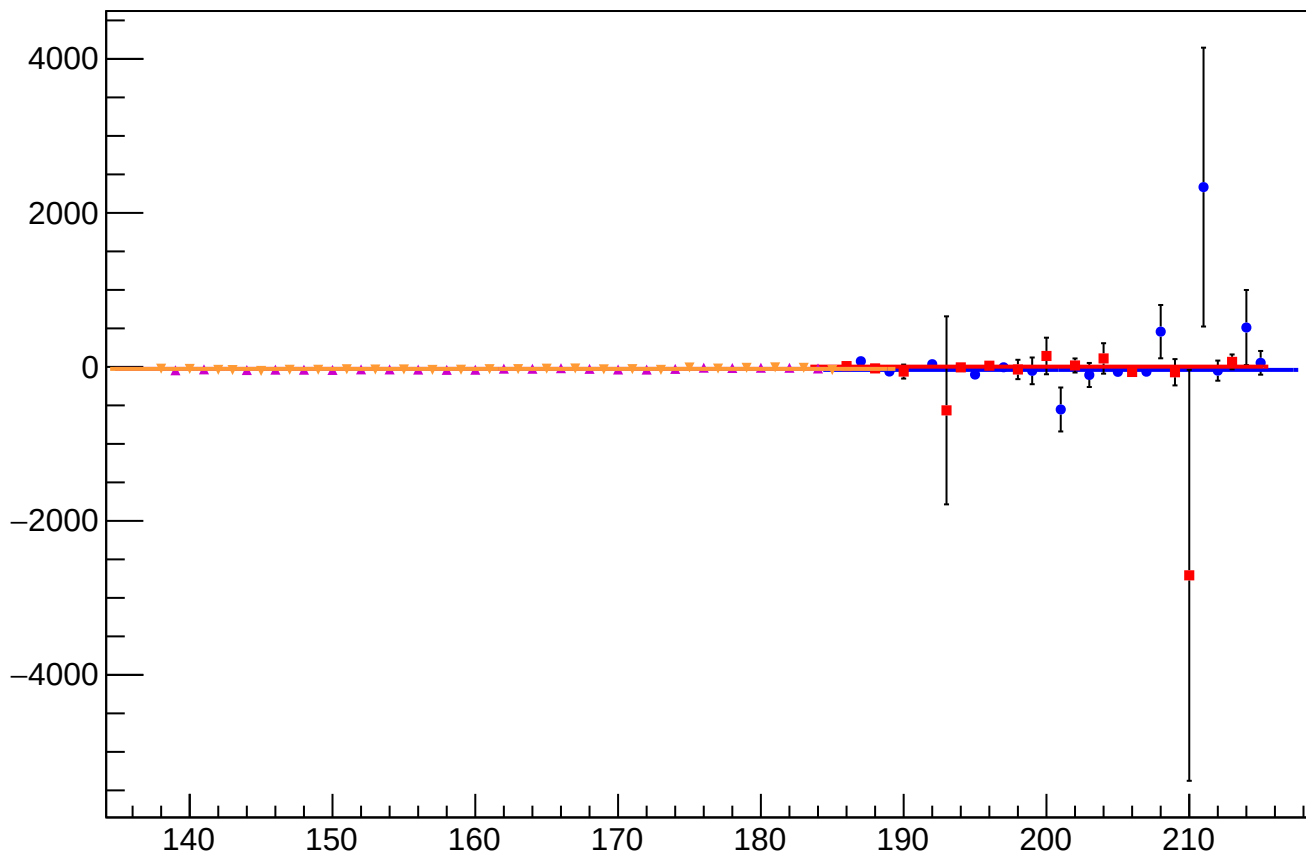
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.4/30$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.560 ± 0.014 $\chi^2/\text{NDF}: 303728.8/32$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335246.6/63$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.7/53$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483604.0/56$
 All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655373.5/110$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

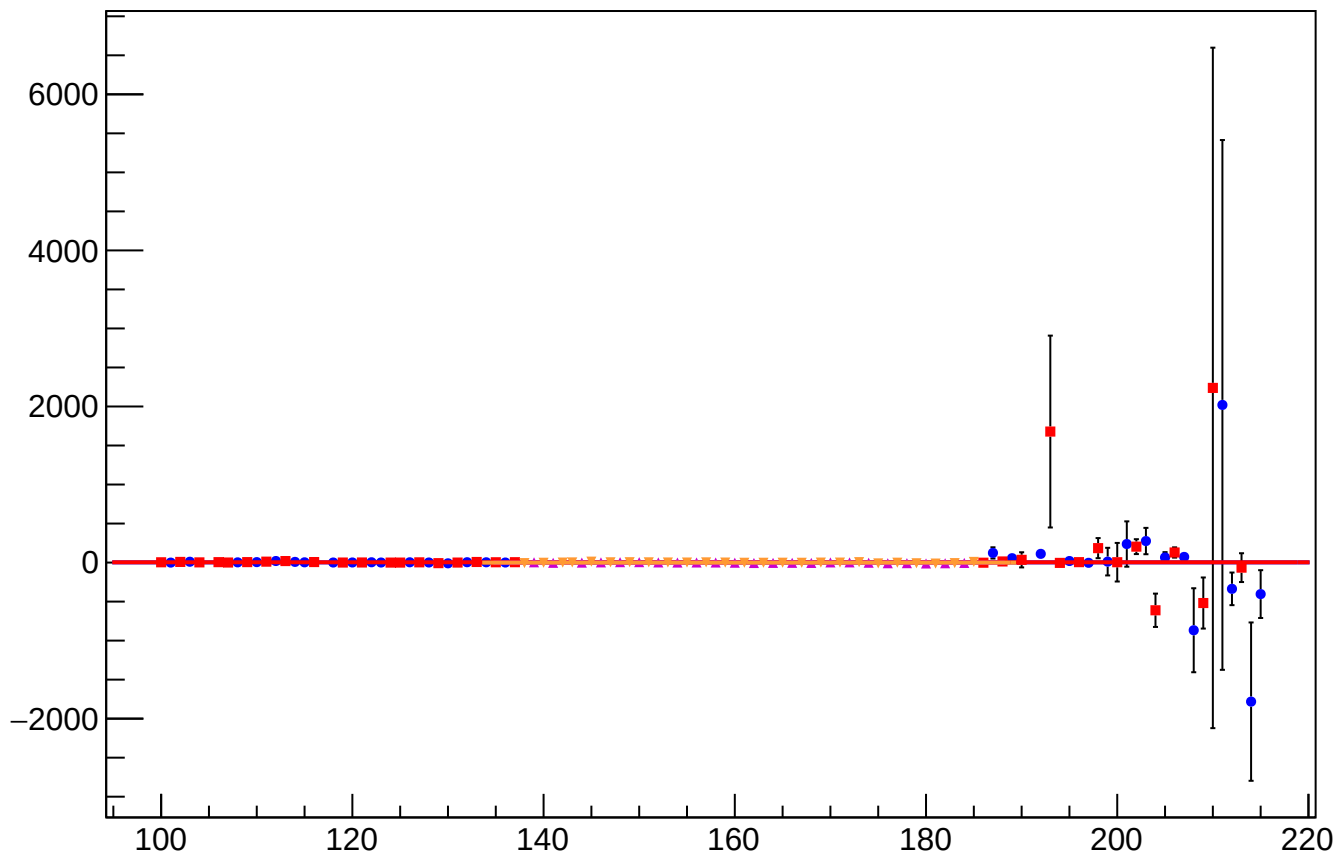


Right In: -38.919+/-12.934 χ^2/NDF : 21.4/14
 Left Out: -25.884+/-0.192 χ^2/NDF : 4158.0/24
 Right Out: 3.212+/-8.082 χ^2/NDF : 7.2/13
 Left In: -26.052+/-0.195 χ^2/NDF : 3279.5/22

Left: -25.967+/-0.137 χ^2/NDF : 7437.8/47
 Right: -8.619+/-6.854 χ^2/NDF : 36.2/28
 In: -26.055+/-0.195 χ^2/NDF : 3301.9/37
 Out: -25.868+/-0.192 χ^2/NDF : 4178.2/38

All: -25.960+/-0.137 χ^2/NDF : 7480.5/76

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.1/31

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 292.7/32

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

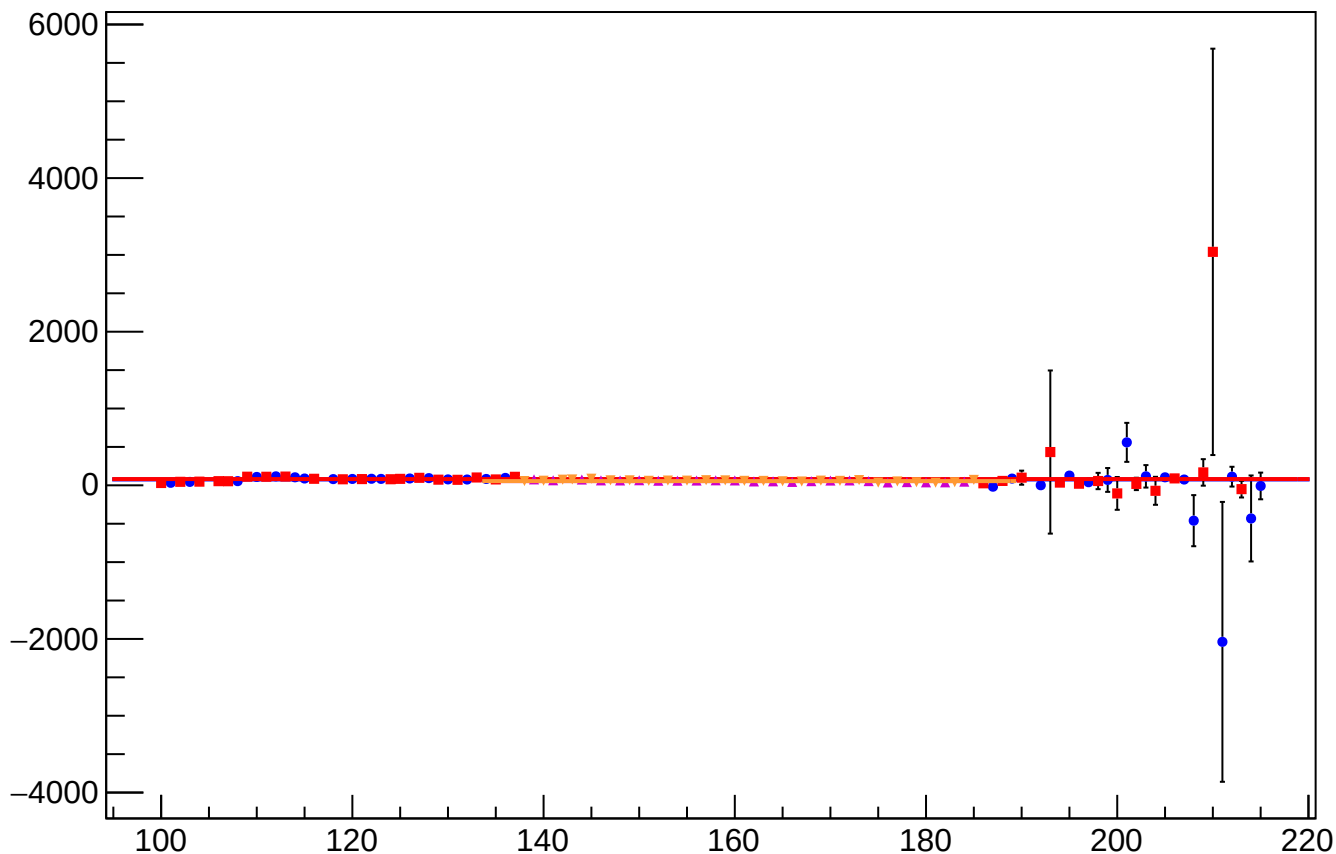
Right: 3.072+/-0.227 χ^2/NDF : 624.2/64

In: -0.242+/-0.136 χ^2/NDF : 1482.1/54

Out: 0.075+/-0.133 χ^2/NDF : 1762.6/57

All: -0.081+/-0.095 χ^2/NDF : 3247.6/112

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.531+/-0.576 χ^2/NDF : 2274.4/31

Left Out: 55.098+/-0.191 χ^2/NDF : 4579.3/24

Right Out: 81.487+/-0.590 χ^2/NDF : 1635.6/32

Left In: 55.070+/-0.193 χ^2/NDF : 3702.8/22

Left: 55.084+/-0.136 χ^2/NDF : 8282.1/47

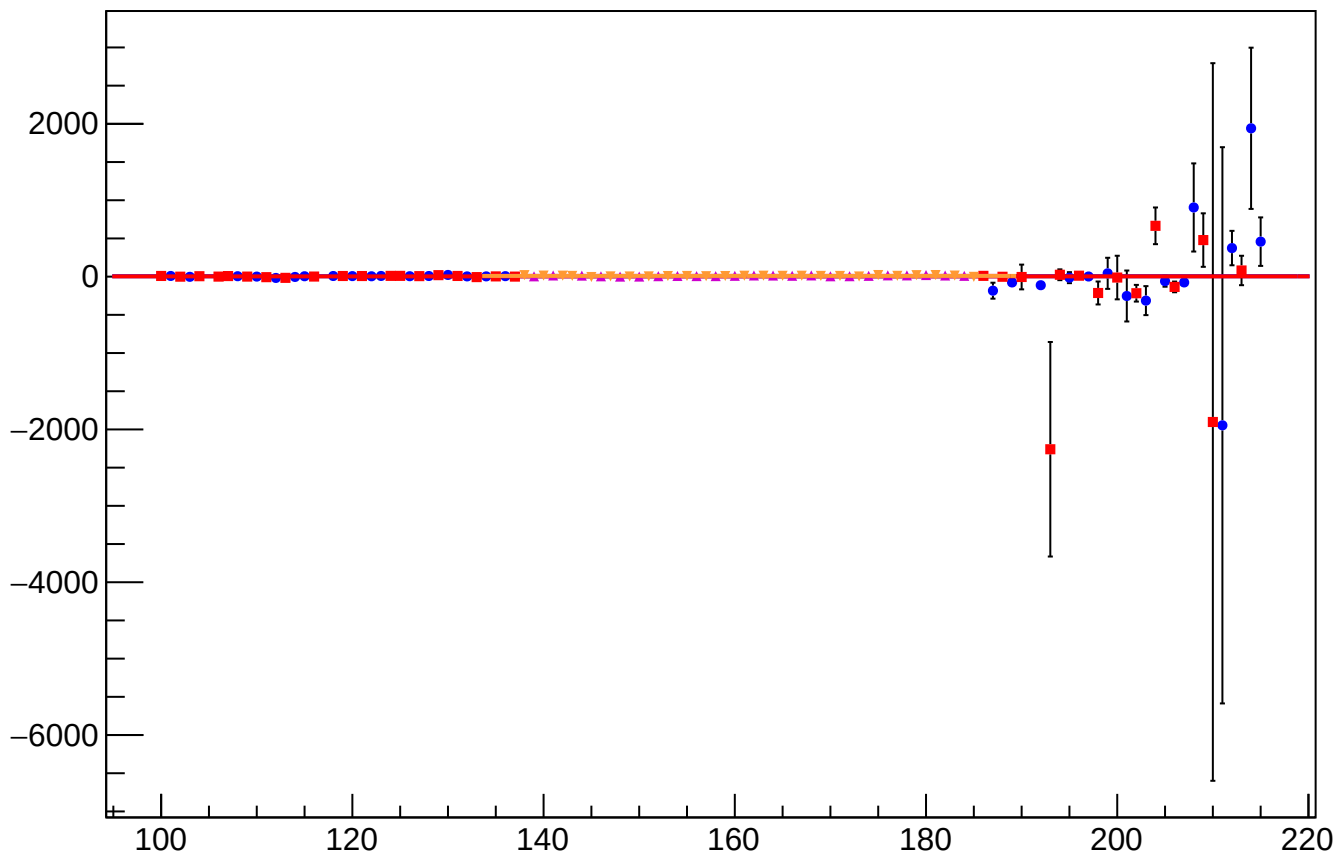
Right: 78.948+/-0.412 χ^2/NDF : 3946.1/64

In: 57.244+/-0.183 χ^2/NDF : 7224.0/54

Out: 57.609+/-0.182 χ^2/NDF : 8022.2/57

All: 57.428+/-0.129 χ^2/NDF : 15248.2/112

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 415.5/31

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 444.3/32

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

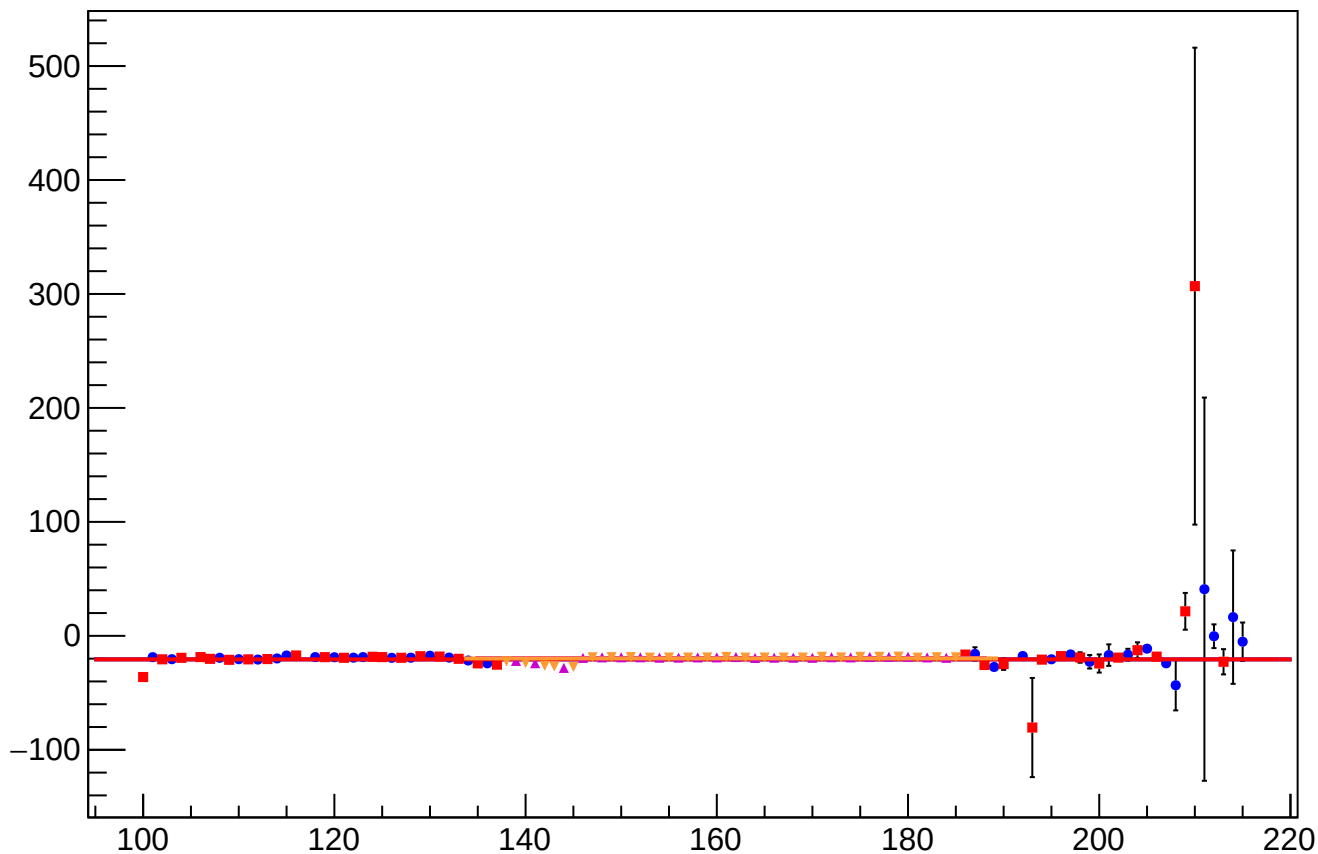
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 872.1/64

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.2/54

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2118.7/57

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3815.5/112

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12460.3/31

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13819.2/32

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

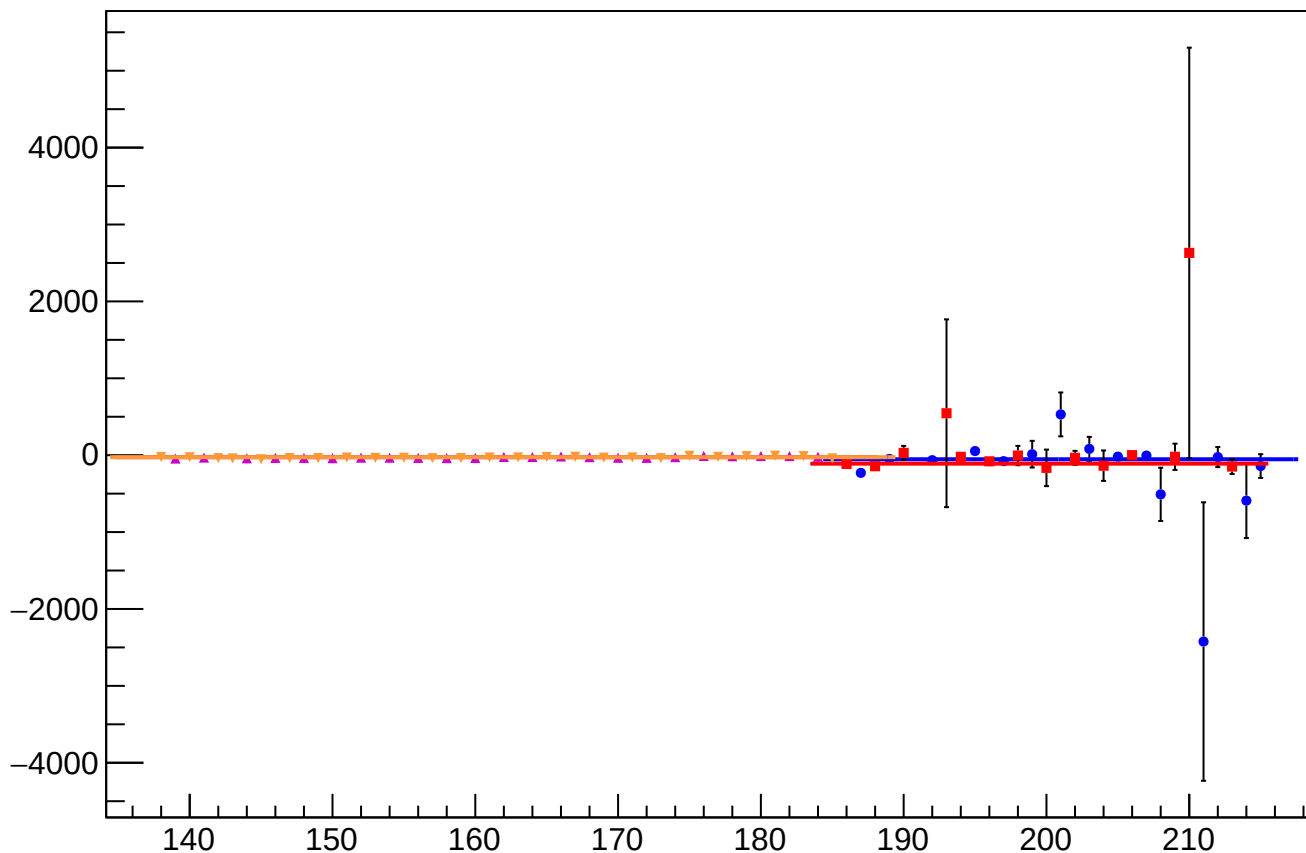
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26279.5/64

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68968.4/54

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107158.7/57

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176855.6/112

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected

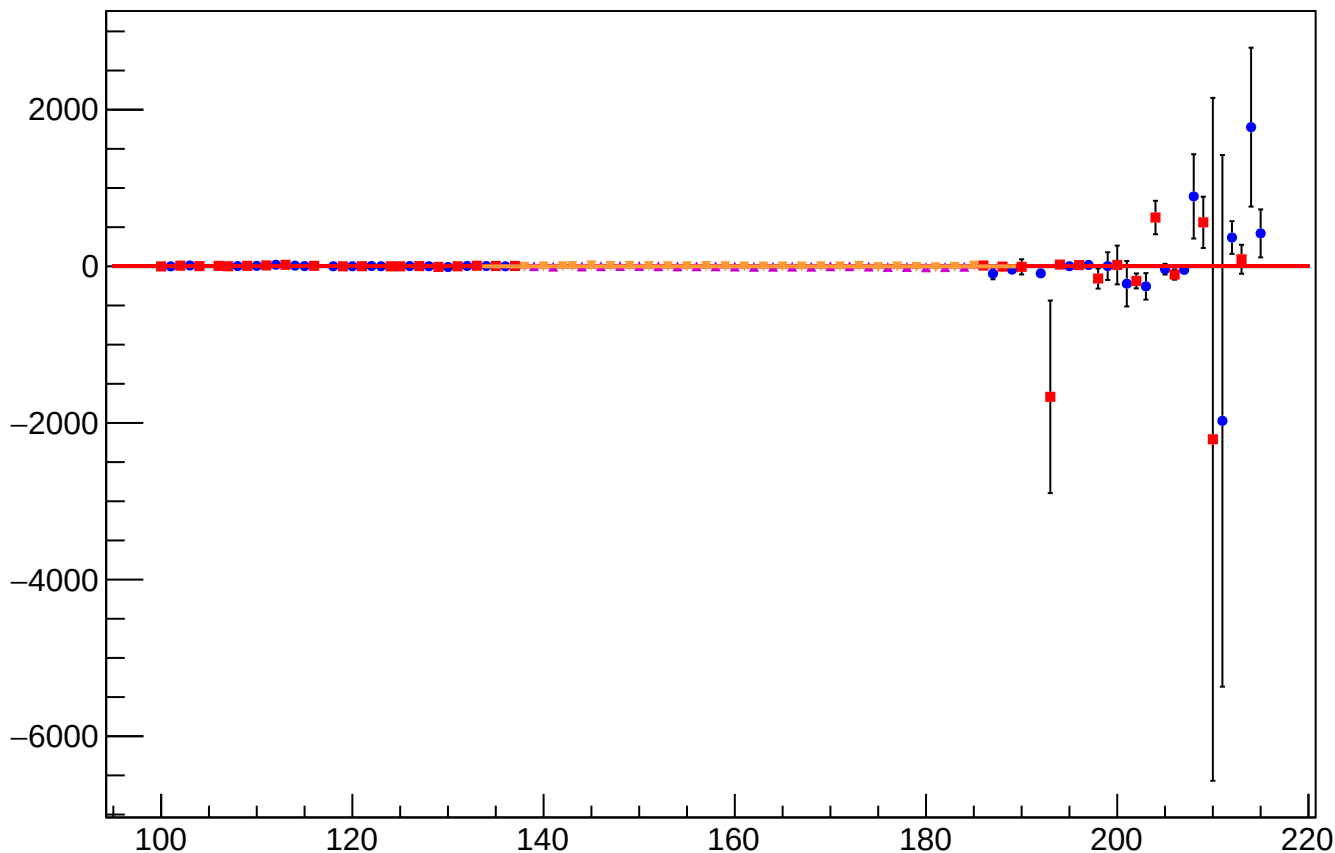


Right In: -52.850 $\pm$ 12.944 χ^2 /NDF: 32.6/14
 Left Out: -25.899 $\pm$ 0.192 χ^2 /NDF:4127.5/24
 Right Out: -110.069 $\pm$ 8.088 χ^2 /NDF: 17.0/13
 Left In: -26.046 $\pm$ 0.195 χ^2 /NDF:3246.7/22

Left: -25.971 $\pm$ 0.137 χ^2 /NDF: 7374.6/47
 Right: -94.002 $\pm$ 6.859 χ^2 /NDF: 63.7/28
 In: -26.052 $\pm$ 0.195 χ^2 /NDF:3283.6/37
 Out: -25.946 $\pm$ 0.192 χ^2 /NDF:4252.8/38

All: -25.998 $\pm$ 0.137 χ^2 /NDF: 7536.6/76

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected

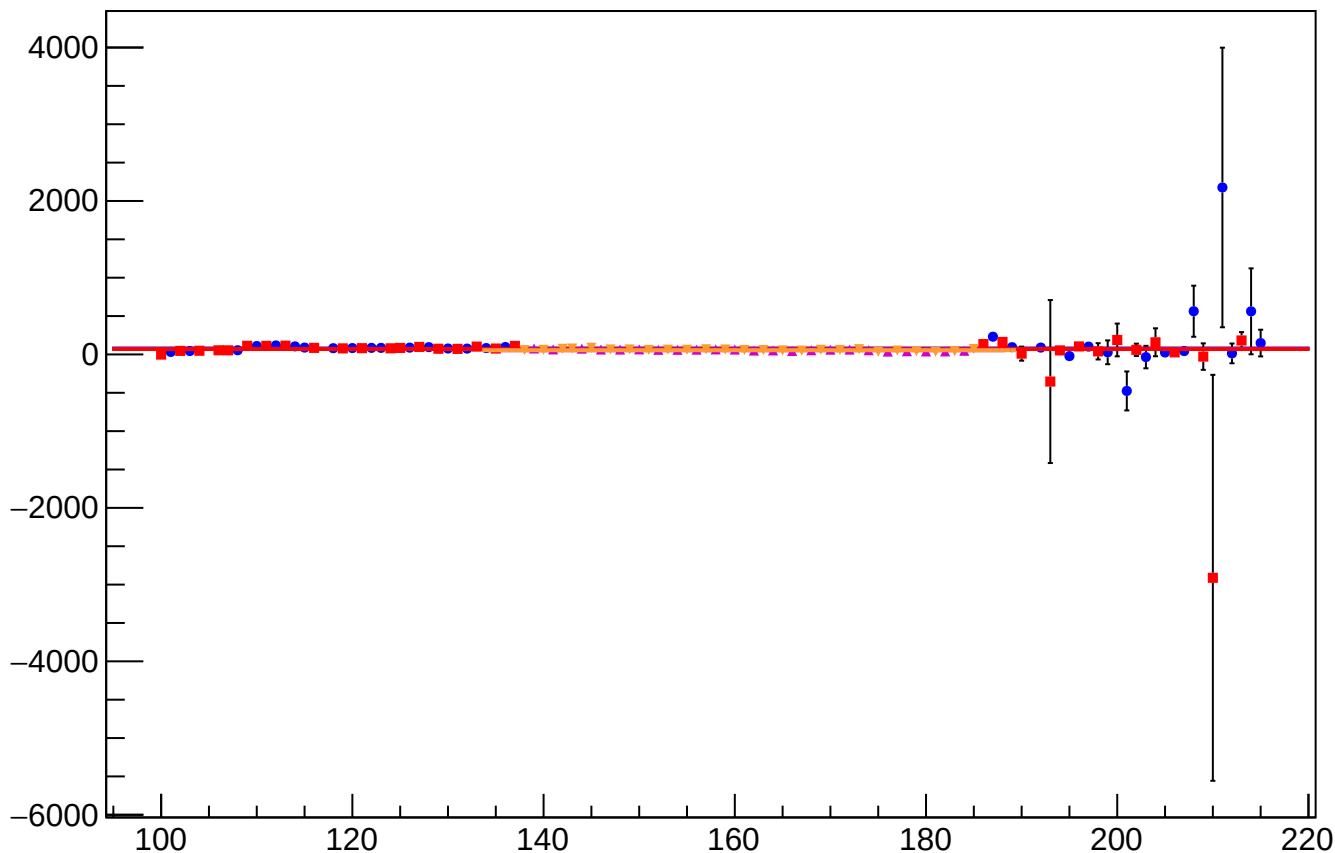


Right In: 2.440 ± 0.315 $\chi^2/\text{NDF}: 316.5/31$
 Left Out: -0.596 ± 0.146 $\chi^2/\text{NDF}: 1310.7/24$
 Right Out: 3.593 ± 0.318 $\chi^2/\text{NDF}: 302.4/32$
 Left In: -0.795 ± 0.151 $\chi^2/\text{NDF}: 1106.3/22$

Left: -0.693 ± 0.105 $\chi^2/\text{NDF}: 2417.9/47$
 Right: 3.011 ± 0.224 $\chi^2/\text{NDF}: 625.6/64$
 In: -0.193 ± 0.136 $\chi^2/\text{NDF}: 1508.7/54$
 Out: 0.136 ± 0.133 $\chi^2/\text{NDF}: 1756.4/57$

All: -0.025 ± 0.095 $\chi^2/\text{NDF}: 3268.1/112$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2300.9/31

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.750 $\pm$ 0.549 χ^2 /NDF: 4495.1/32

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

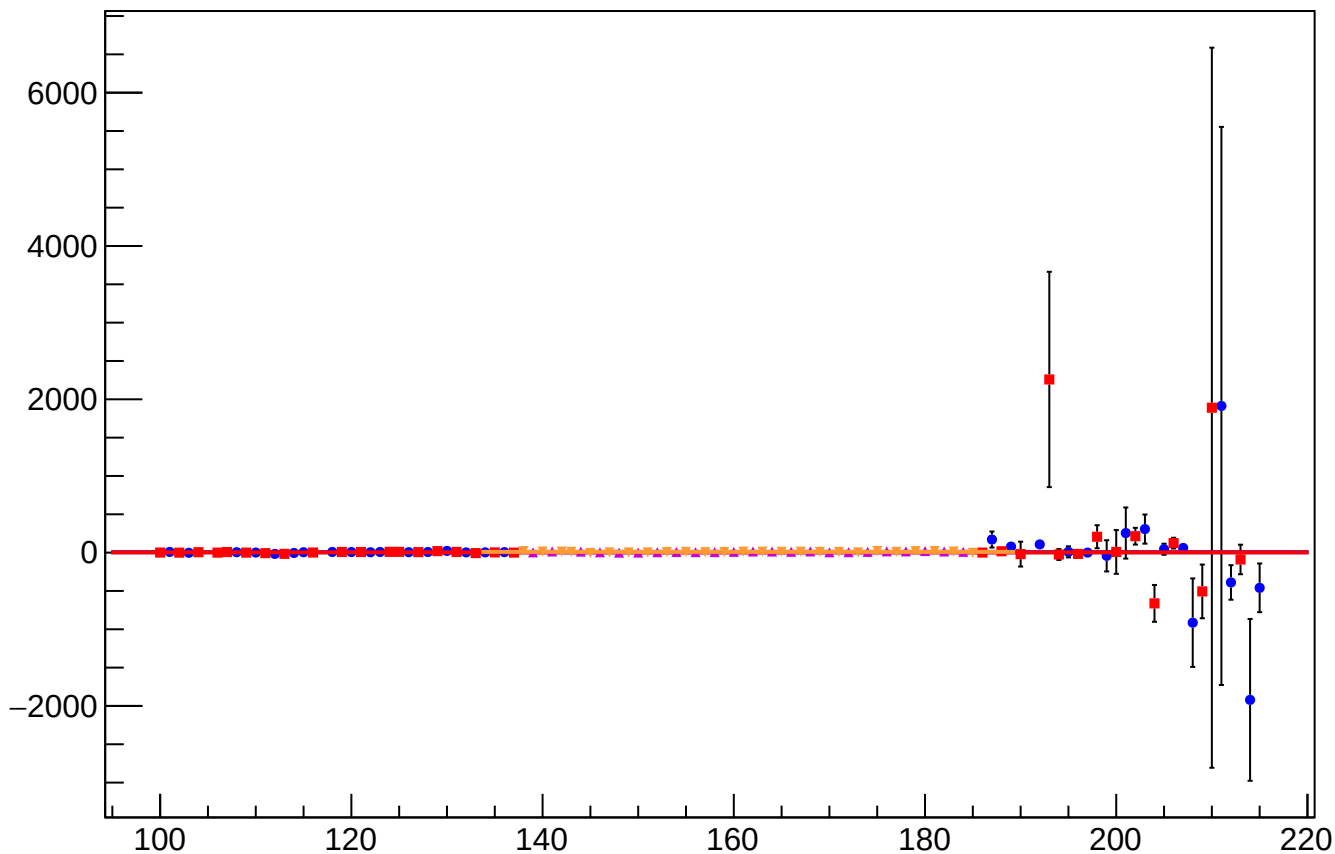
Right: 73.583 $\pm$ 0.397 χ^2 /NDF: 6852.1/64

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.0/54

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9779.6/57

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17012.0/112

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.444 $\pm$ 0.361 χ^2 /NDF: 409.6/31

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.282 $\pm$ 0.365 χ^2 /NDF: 446.7/32

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

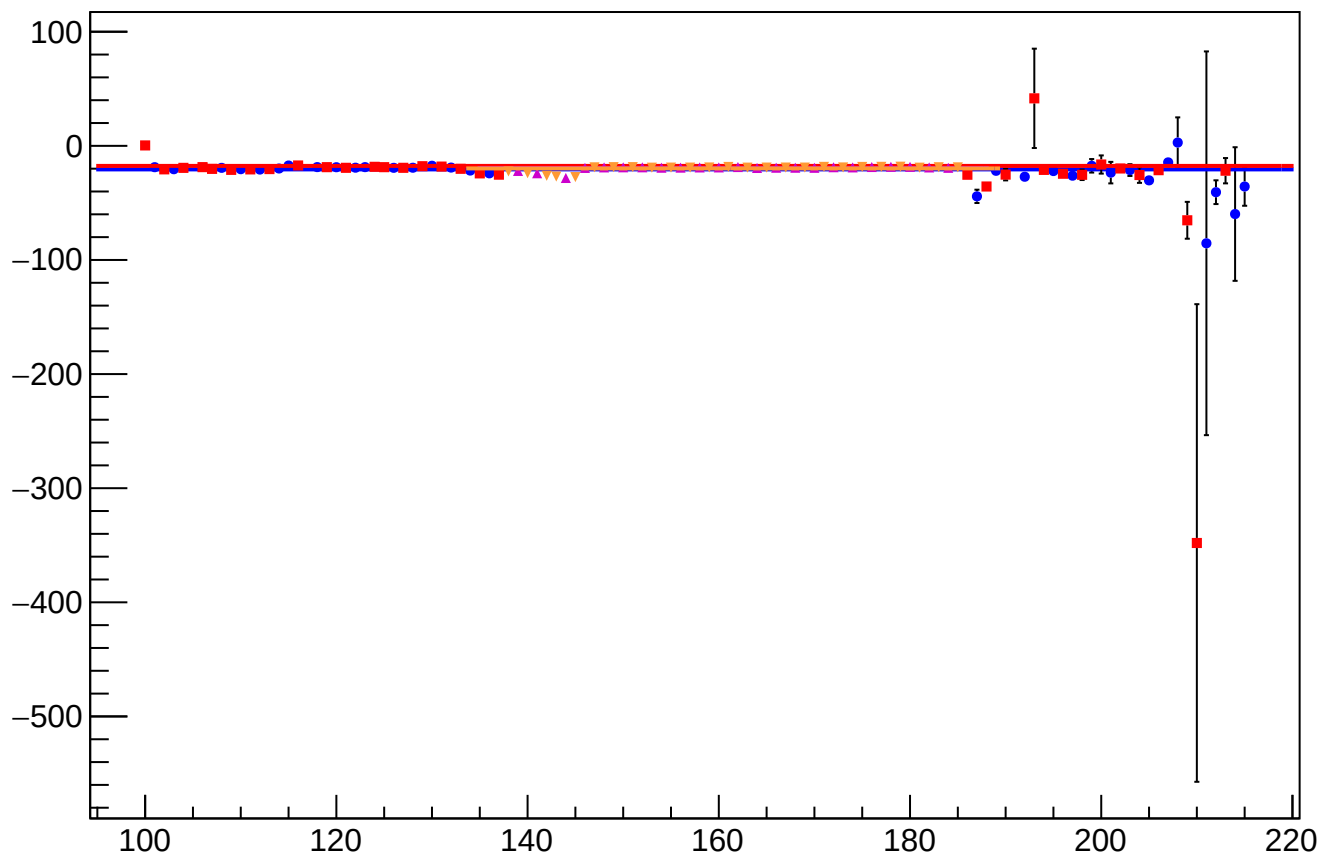
Right: 4.376 $\pm$ 0.257 χ^2 /NDF: 874.1/64

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1716.1/54

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2140.8/57

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3860.0/112

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 χ^2/NDF : 12521.0/31

Left Out: -19.775 ± 0.008 χ^2/NDF : 91510.1/24

Right Out: -17.575 ± 0.018 χ^2/NDF : 178452.9/32

Left In: -19.445 ± 0.008 χ^2/NDF : 53124.1/22

Left: -19.611 ± 0.006 χ^2/NDF : 145502.5/47

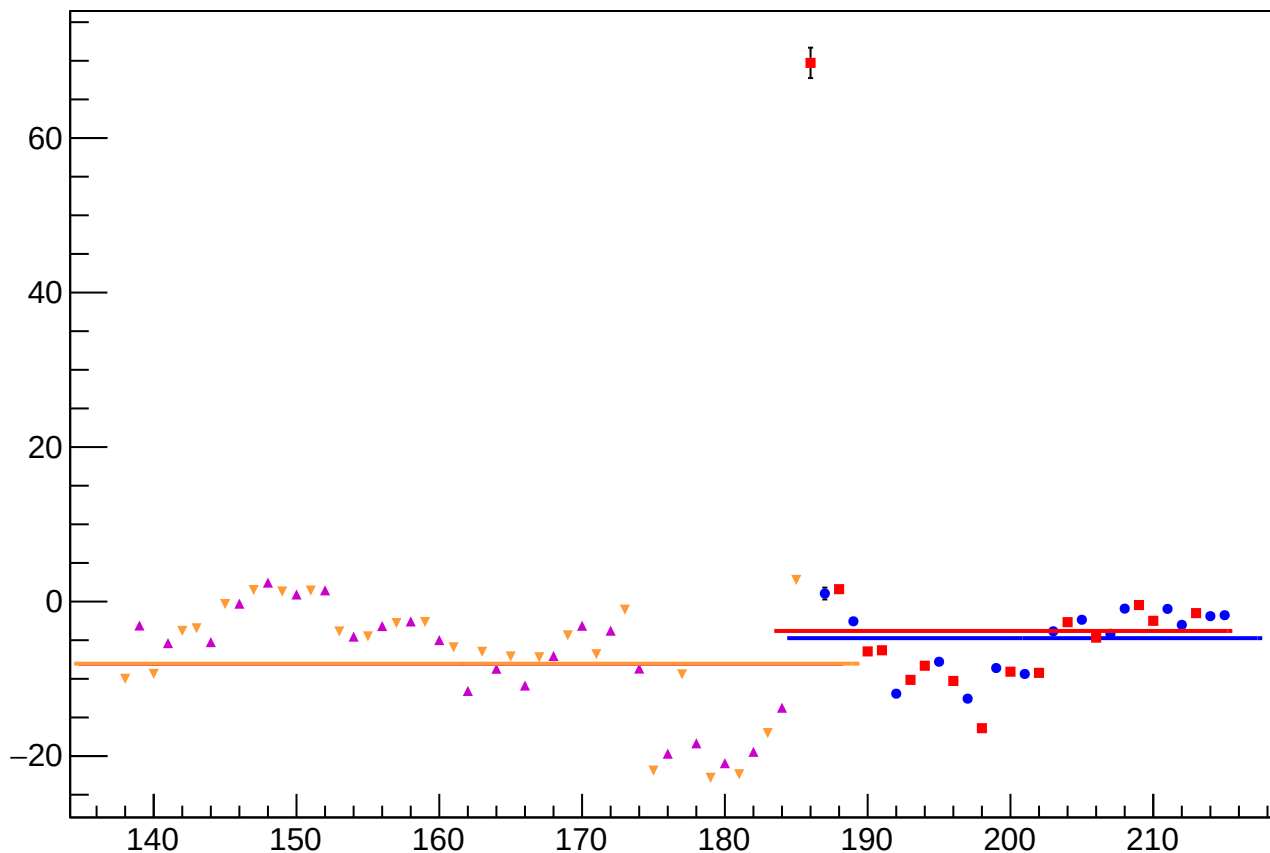
Right: -19.003 ± 0.013 χ^2/NDF : 204444.3/64

In: -19.618 ± 0.007 χ^2/NDF : 68942.9/54

Out: -19.422 ± 0.007 χ^2/NDF : 282439.7/57

All: -19.518 ± 0.005 χ^2/NDF : 351745.8/112

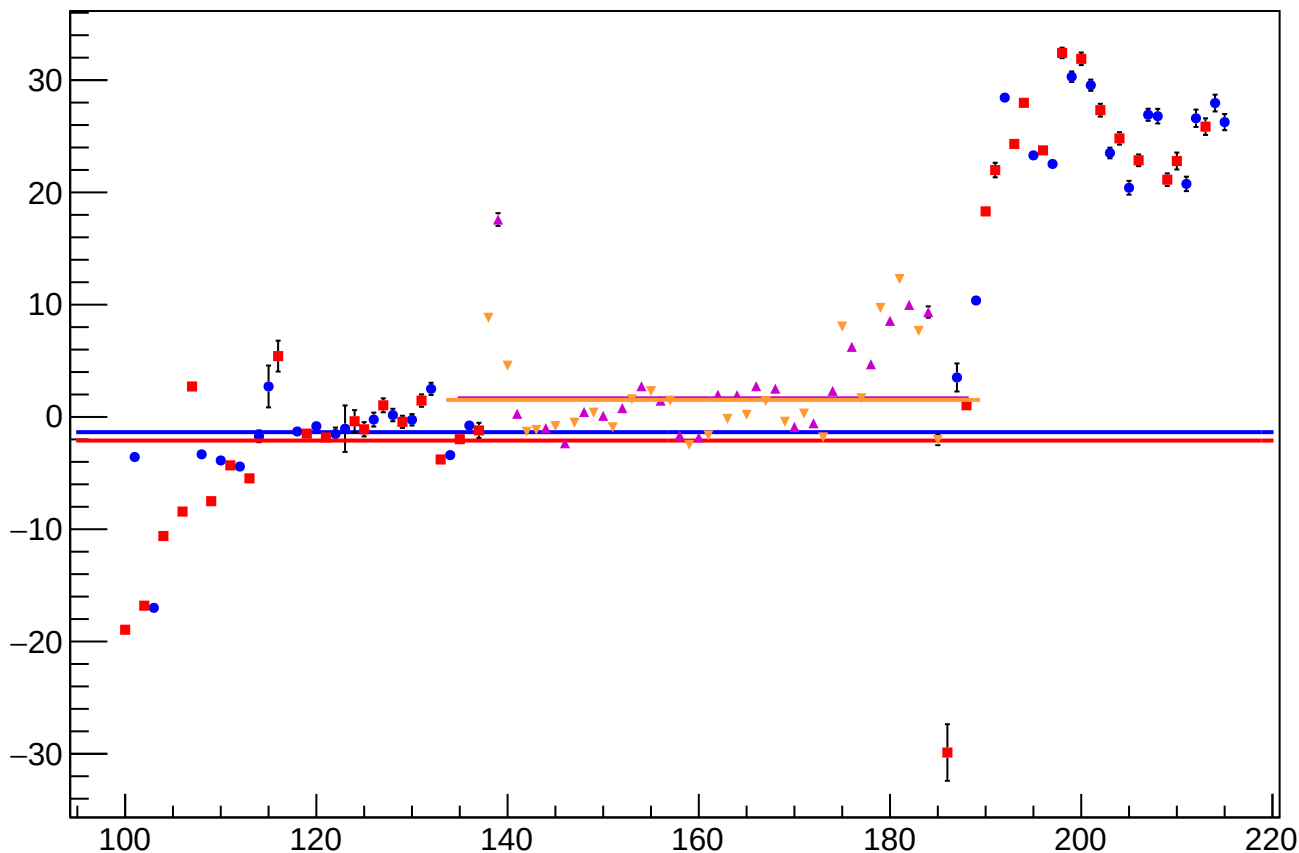
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.734 ± 0.101 $\chi^2/\text{NDF}: 1552.1/14$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.803 ± 0.096 $\chi^2/\text{NDF}: 4140.7/14$
 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: -4.242 ± 0.069 $\chi^2/\text{NDF}: 5737.6/29$
 In: -6.957 ± 0.059 $\chi^2/\text{NDF}: 12818.5/37$
 Out: -6.548 ± 0.057 $\chi^2/\text{NDF}: 17980.7/39$
 All: -6.745 ± 0.041 $\chi^2/\text{NDF}: 30824.3/77$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.353 ± 0.051 χ^2/NDF : 50773.4/31

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.101 ± 0.053 χ^2/NDF : 57979.1/33

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

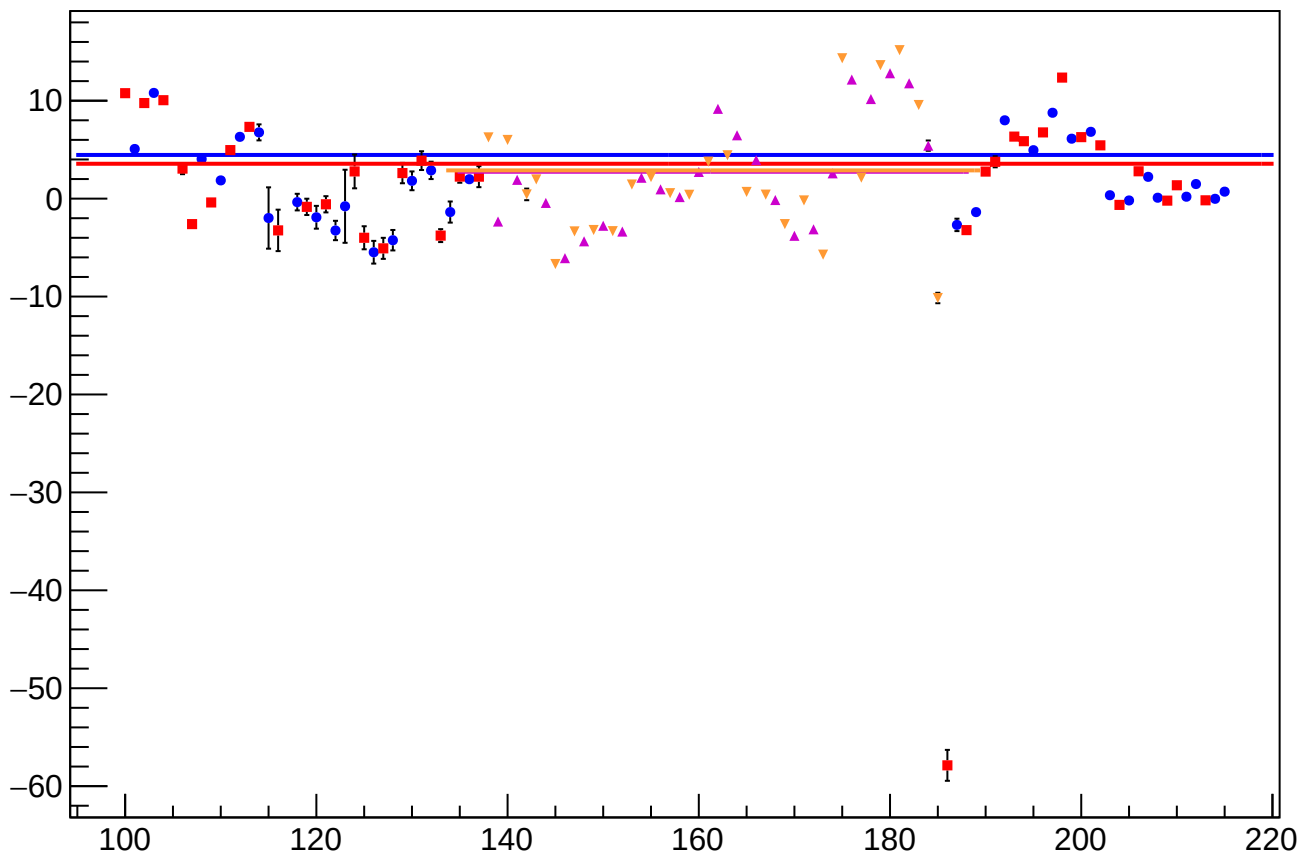
Right: -1.710 ± 0.037 χ^2/NDF : 108855.2/65

In: -0.004 ± 0.038 χ^2/NDF : 56377.3/54

Out: -0.325 ± 0.038 χ^2/NDF : 65083.9/58

All: -0.163 ± 0.027 χ^2/NDF : 121497.0/113

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.461+/-0.066 χ^2/NDF : 3292.6/31

Left Out: 2.884+/-0.070 χ^2/NDF : 8893.2/24

Right Out: 3.561+/-0.063 χ^2/NDF : 8073.3/33

Left In: 2.745+/-0.071 χ^2/NDF : 7183.1/22

Left: 2.816+/-0.050 χ^2/NDF : 16078.2/47

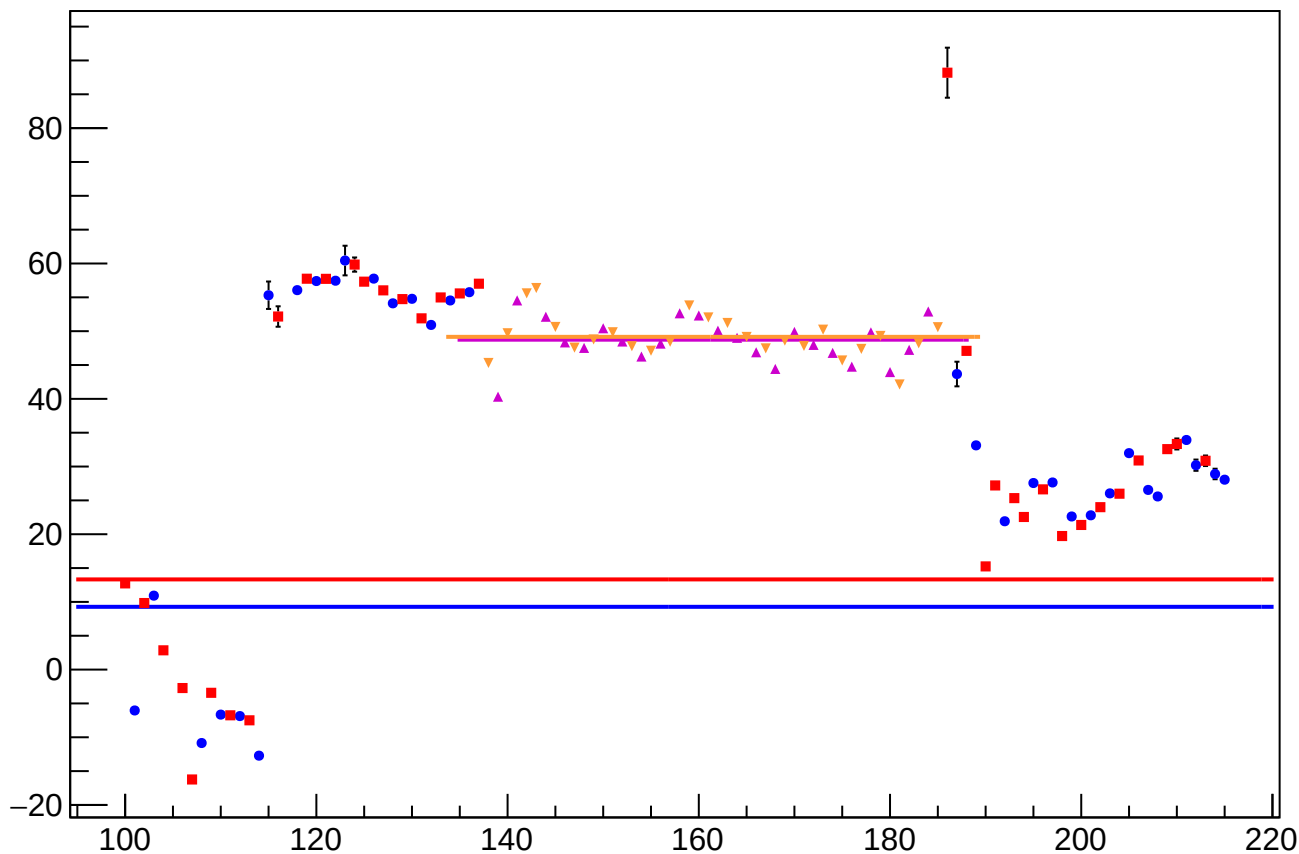
Right: 3.994+/-0.046 χ^2/NDF : 11462.9/65

In: 3.673+/-0.048 χ^2/NDF : 10787.7/54

Out: 3.257+/-0.047 χ^2/NDF : 17017.7/58

All: 3.460+/-0.034 χ^2/NDF : 27843.3/113

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.275+/-0.060 χ^2/NDF : 136312.8/31

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.323+/-0.063 χ^2/NDF : 137763.7/33

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

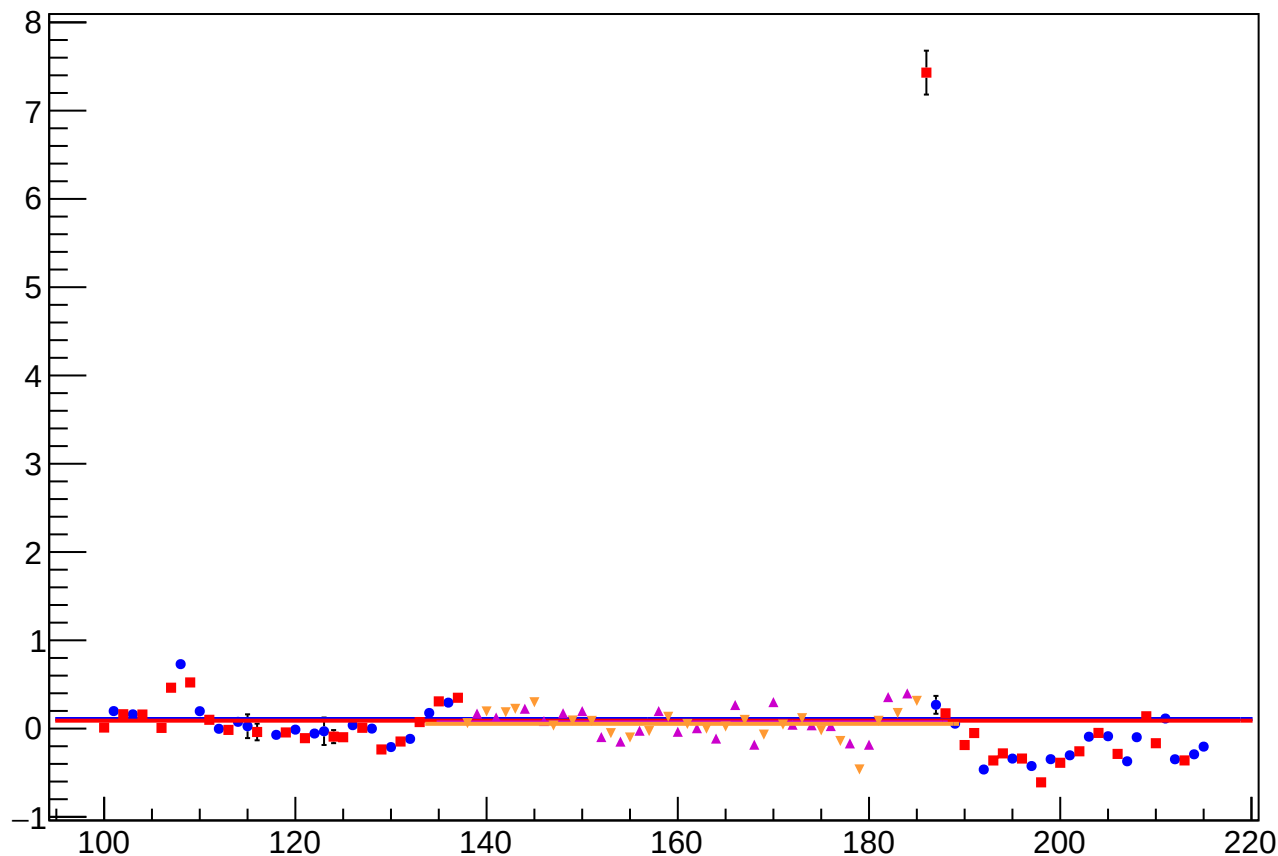
Right: 11.188+/-0.044 χ^2/NDF : 276235.4/65

In: 27.776+/-0.044 χ^2/NDF :341945.5/54

Out: 31.688+/-0.044 χ^2/NDF :304324.8/58

All: 29.708+/-0.031 χ^2/NDF : 650237.0/113

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.109 $\pm$ 0.002 χ^2 /NDF: 11864.9/31

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.090 $\pm$ 0.002 χ^2 /NDF: 11110.8/33

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

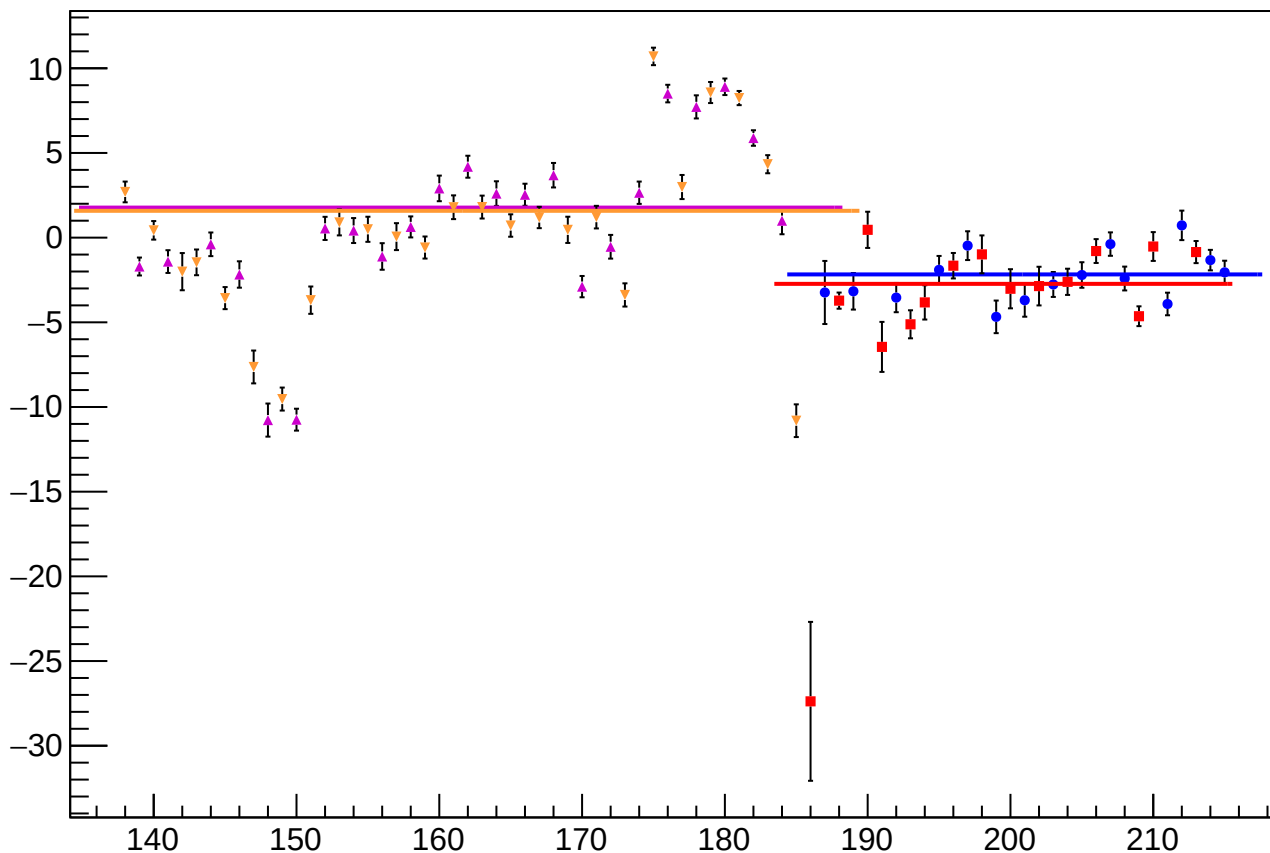
Right: 0.099 $\pm$ 0.002 χ^2 /NDF: 23006.1/65

In: 0.092 $\pm$ 0.002 χ^2 /NDF:15201.5/54

Out: 0.075 $\pm$ 0.002 χ^2 /NDF:13584.5/58

All: 0.083 $\pm$ 0.001 χ^2 /NDF: 28830.6/113

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.172 ± 0.206 χ^2/NDF : 44.4/14

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.729 ± 0.210 χ^2/NDF : 94.5/14

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

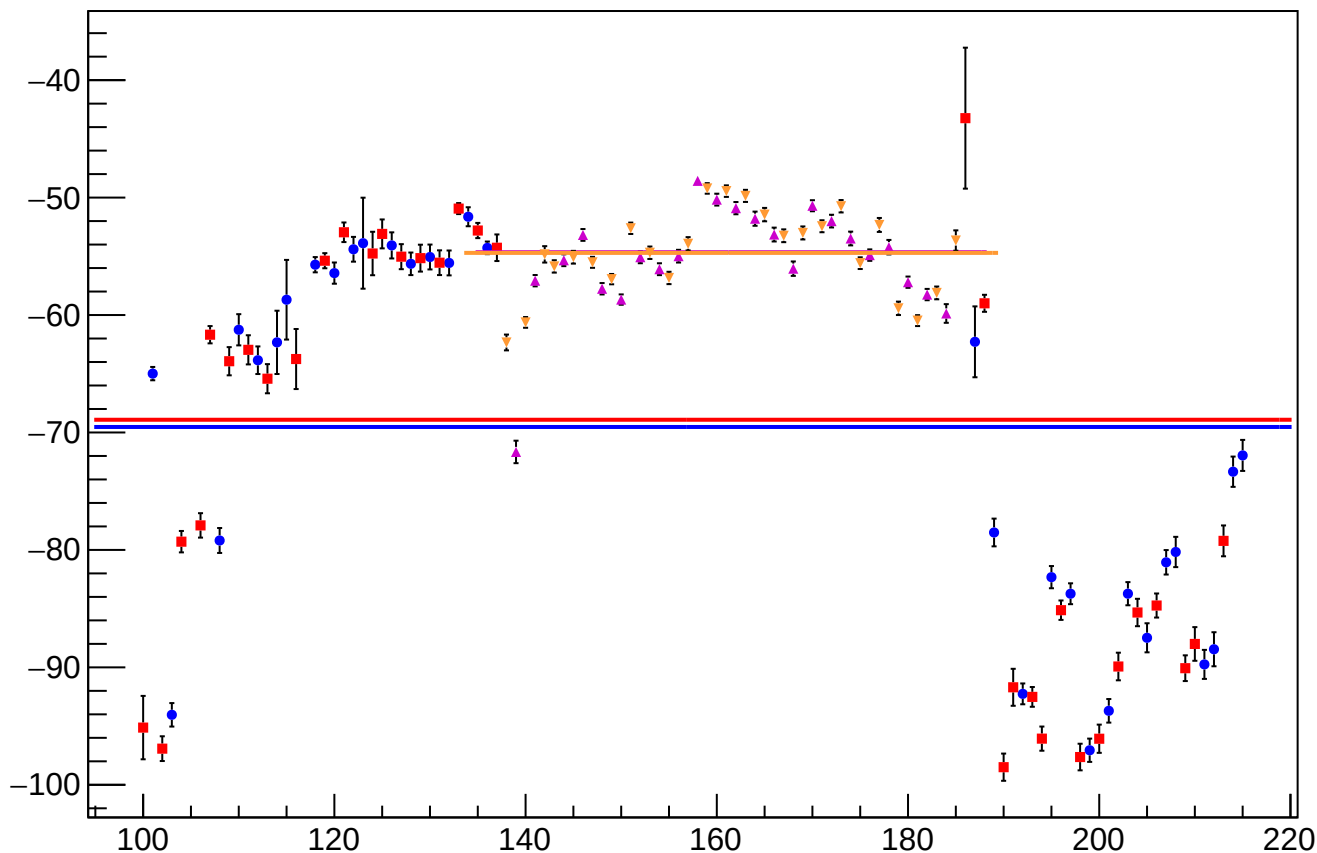
Right: -2.445 ± 0.147 χ^2/NDF : 142.5/29

In: 0.583 ± 0.113 χ^2/NDF : 1598.7/37

Out: 0.355 ± 0.112 χ^2/NDF : 1854.5/39

All: 0.468 ± 0.080 χ^2/NDF : 3455.3/77

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.532 ± 0.178 $\chi^2/\text{NDF}: 7335.1/31$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -68.916 ± 0.169 $\chi^2/\text{NDF}: 10374.7/33$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

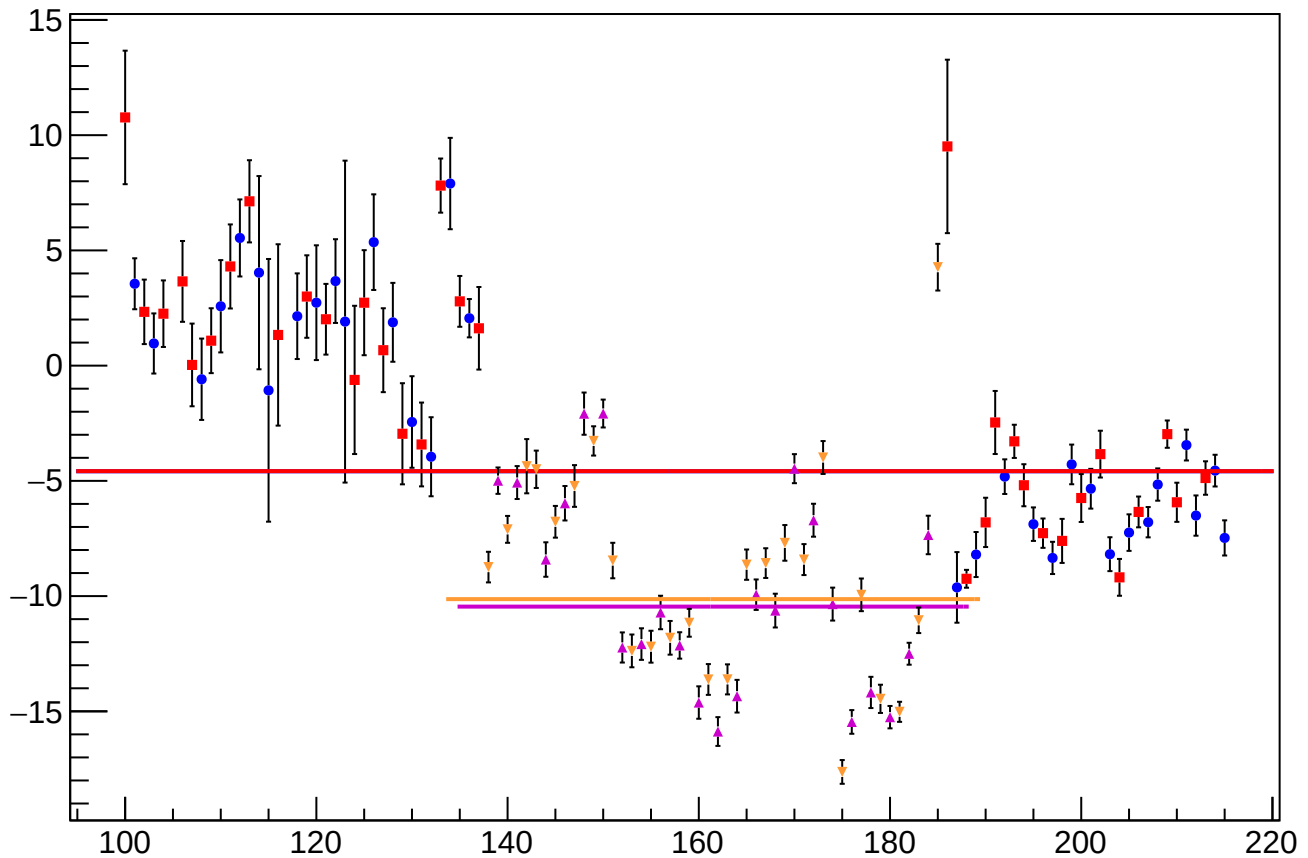
Right: -69.209 ± 0.123 $\chi^2/\text{NDF}: 17716.1/65$

In: -58.766 ± 0.093 $\chi^2/\text{NDF}: 13494.7/54$

Out: -58.693 ± 0.090 $\chi^2/\text{NDF}: 16570.8/58$

All: -58.728 ± 0.065 $\chi^2/\text{NDF}: 30065.8/113$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.585 ± 0.179 $\chi^2/\text{NDF}: 450.3/31$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -4.578 ± 0.173 $\chi^2/\text{NDF}: 663.9/33$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

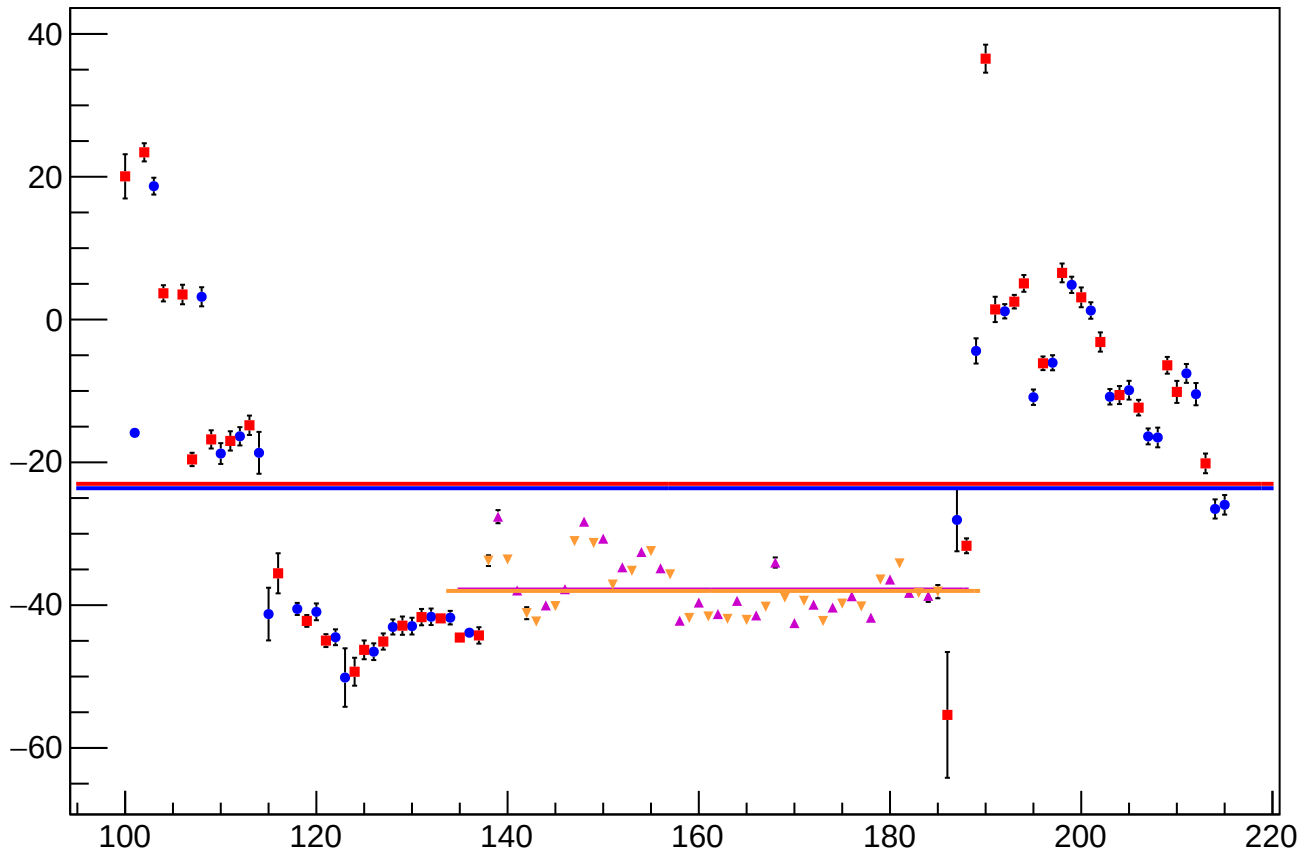
Right: -4.581 ± 0.125 $\chi^2/\text{NDF}: 1114.1/65$

In: -8.339 ± 0.108 $\chi^2/\text{NDF}: 2138.7/54$

Out: -8.077 ± 0.105 $\chi^2/\text{NDF}: 2366.1/58$

All: -8.205 ± 0.075 $\chi^2/\text{NDF}: 4507.8/113$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.626 ± 0.201 χ^2/NDF : 8669.2/31

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -23.008 ± 0.196 χ^2/NDF : 11890.4/33

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

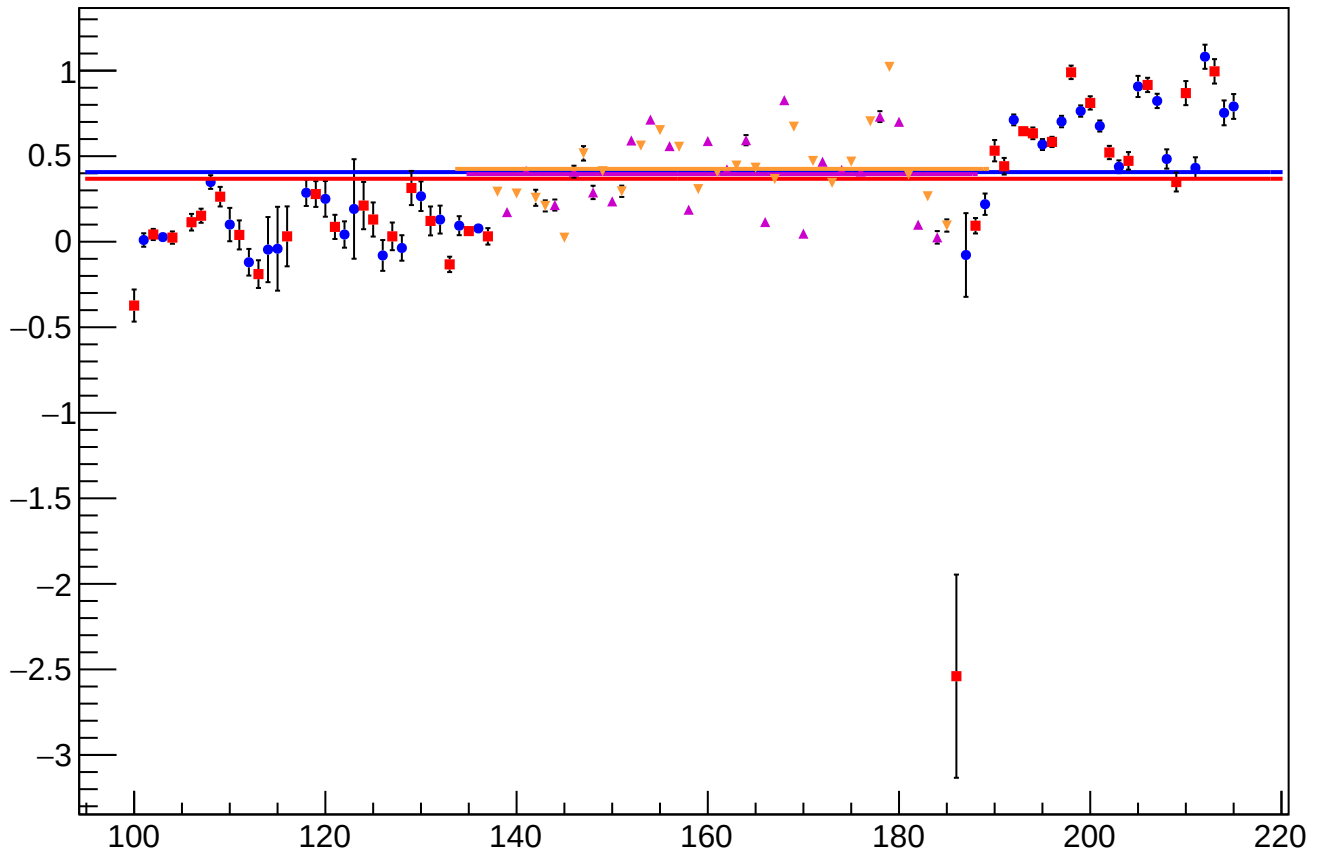
Right: -23.309 ± 0.140 χ^2/NDF : 20564.4/65

In: -33.981 ± 0.104 χ^2/NDF : 13338.8/54

Out: -33.986 ± 0.102 χ^2/NDF : 17112.7/58

All: -33.984 ± 0.073 χ^2/NDF : 30451.5/113

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.407 ± 0.008 χ^2/NDF : 1402.0/31

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.368 ± 0.008 χ^2/NDF : 1706.2/33

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

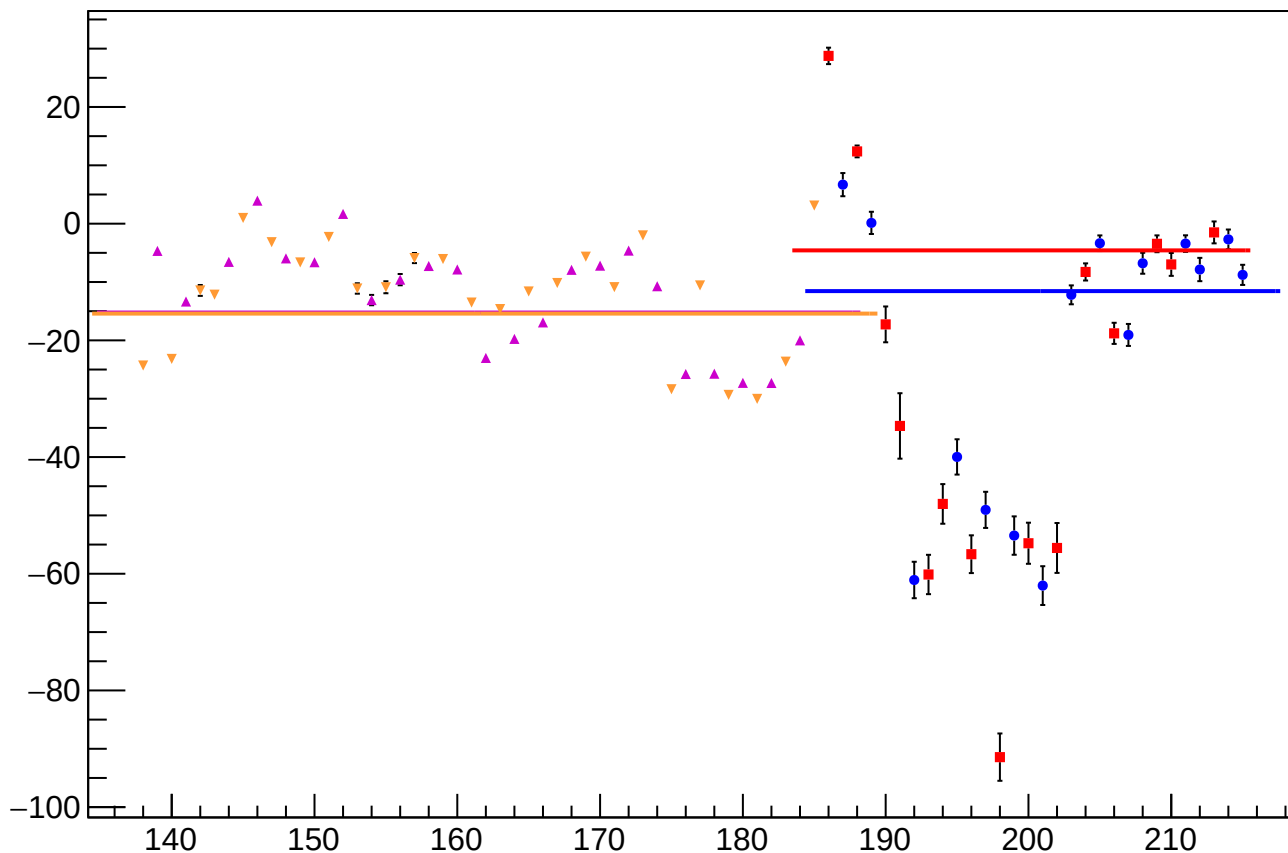
Right: 0.387 ± 0.006 χ^2/NDF : 3119.1/65

In: 0.398 ± 0.005 χ^2/NDF : 3201.6/54

Out: 0.409 ± 0.005 χ^2/NDF : 3044.5/58

All: 0.404 ± 0.003 χ^2/NDF : 6248.5/113

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected

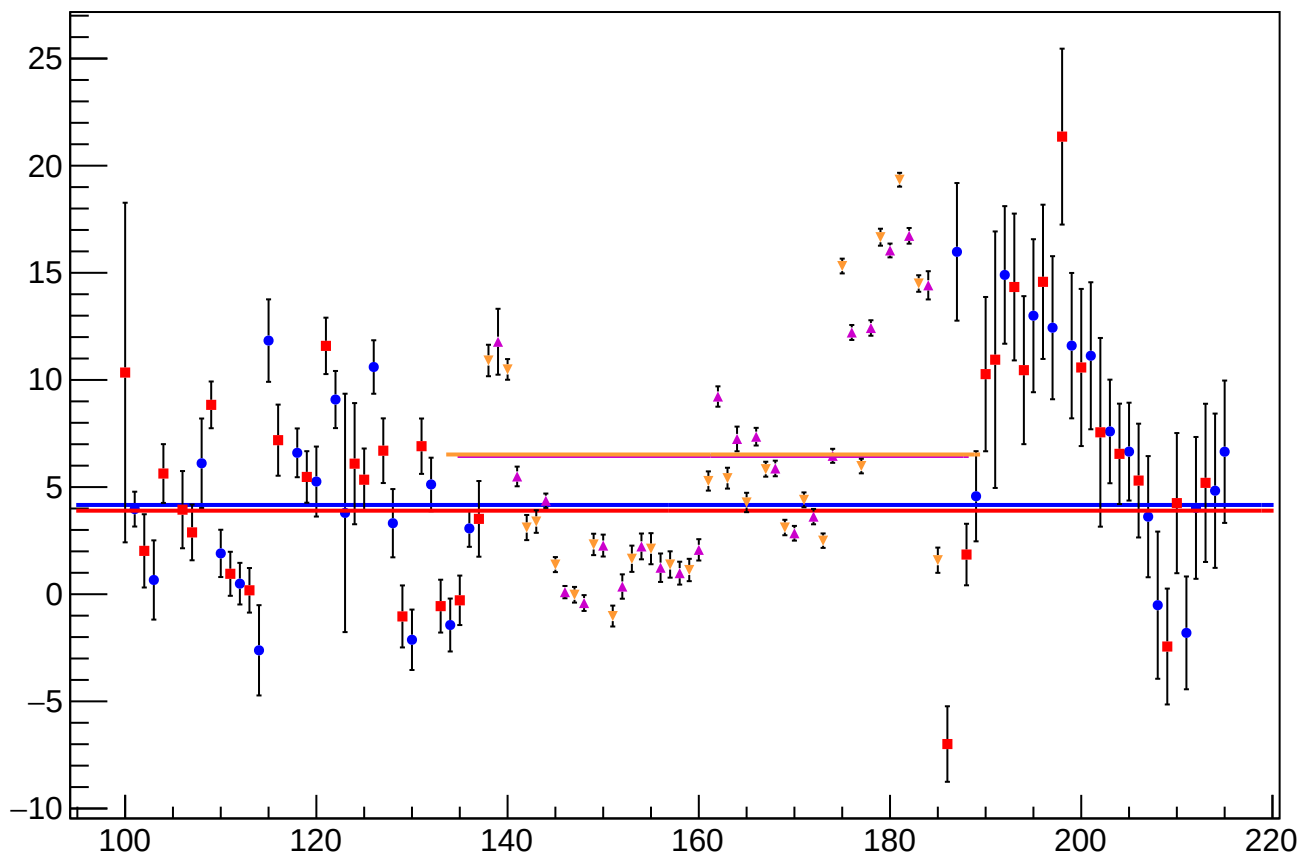


Right In: -11.557 ± 0.501 $\chi^2/\text{NDF}: 1128.4/14$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.578 ± 0.508 $\chi^2/\text{NDF}: 2456.7/14$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$
 Right: -8.118 ± 0.357 $\chi^2/\text{NDF}: 3680.8/29$
 In: -15.070 ± 0.104 $\chi^2/\text{NDF}: 9837.2/37$
 Out: -14.967 ± 0.103 $\chi^2/\text{NDF}: 13402.1/39$

All: -15.018 ± 0.073 $\chi^2/\text{NDF}: 23239.8/77$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.166 $\pm$ 0.288 χ^2 /NDF: 194.3/31

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF: 4985.2/24

Right Out: 3.899 $\pm$ 0.289 χ^2 /NDF: 229.4/33

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

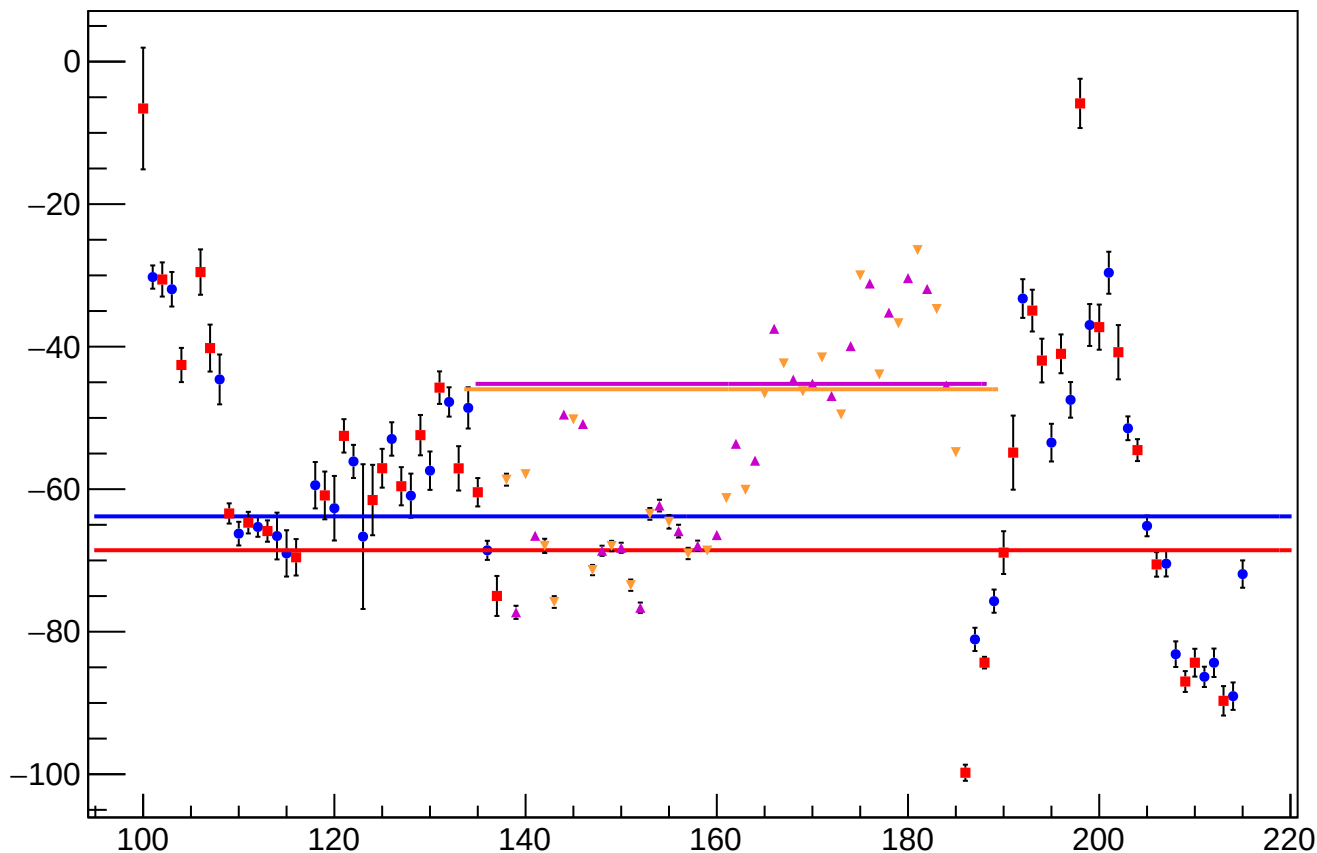
Right: 4.033 $\pm$ 0.204 χ^2 /NDF: 424.1/65

In: 6.264 $\pm$ 0.083 χ^2 /NDF: 4200.2/54

Out: 6.311 $\pm$ 0.082 χ^2 /NDF: 5290.1/58

All: 6.288 $\pm$ 0.058 χ^2 /NDF: 9490.5/113

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.816 ± 0.364 χ^2/NDF : 2074.1/31

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -68.567 ± 0.349 χ^2/NDF : 3262.1/33

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

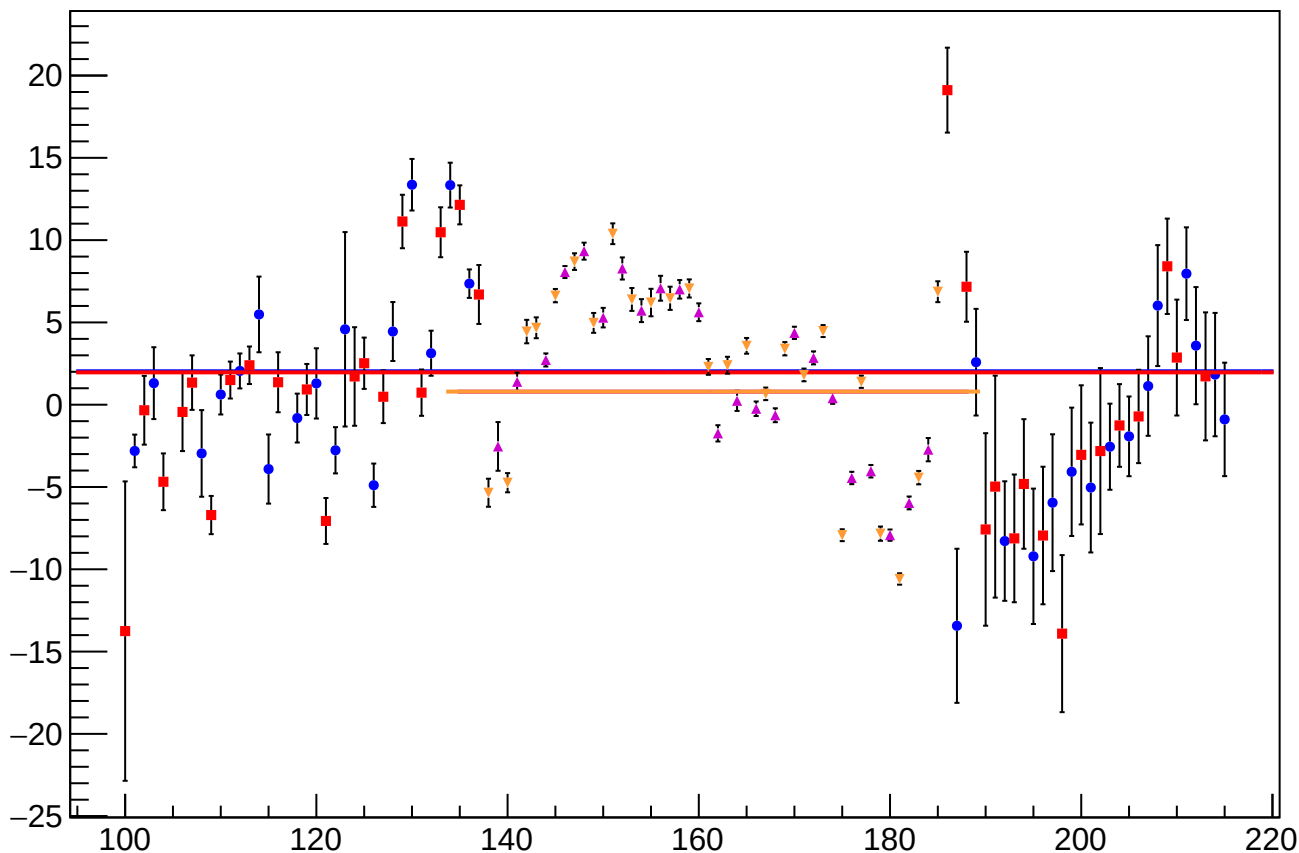
Right: -66.296 ± 0.252 χ^2/NDF : 5424.9/65

In: -46.704 ± 0.103 χ^2/NDF : 20072.1/54

Out: -47.902 ± 0.102 χ^2/NDF : 24464.0/58

All: -47.310 ± 0.072 χ^2/NDF : 44604.8/113

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.031 ± 0.323 χ^2/NDF : 292.3/31

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.966 ± 0.330 χ^2/NDF : 354.8/33

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

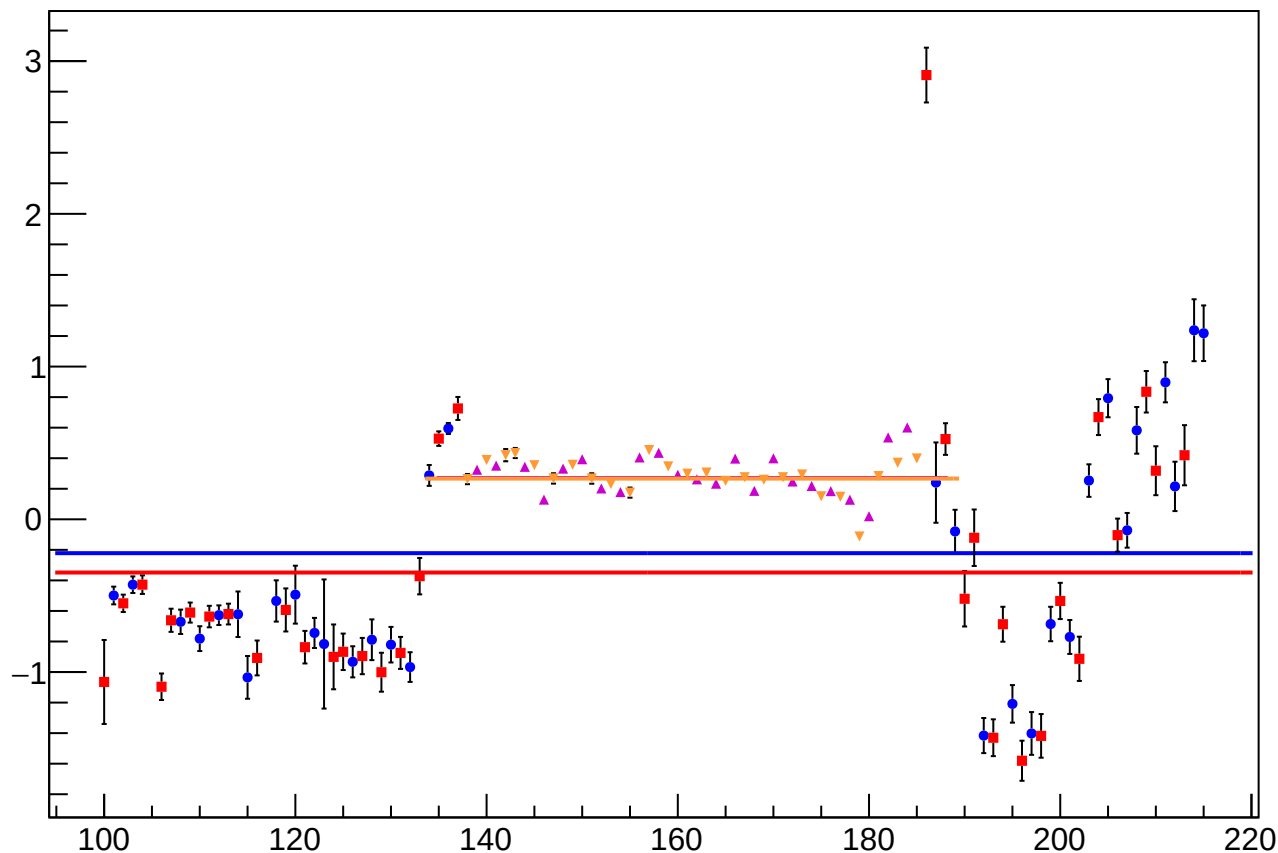
Right: 1.999 ± 0.231 χ^2/NDF : 647.1/65

In: 0.894 ± 0.093 χ^2/NDF : 2998.3/54

Out: 0.888 ± 0.092 χ^2/NDF : 4126.3/58

All: 0.891 ± 0.065 χ^2/NDF : 7124.6/113

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.222 ± 0.017 $\chi^2/\text{NDF}: 1555.9/31$

Left Out: 0.267 ± 0.004 $\chi^2/\text{NDF}: 699.8/24$

Right Out: -0.348 ± 0.017 $\chi^2/\text{NDF}: 1692.9/33$

Left In: 0.270 ± 0.004 $\chi^2/\text{NDF}: 969.9/22$

Left: 0.268 ± 0.003 $\chi^2/\text{NDF}: 1670.1/47$

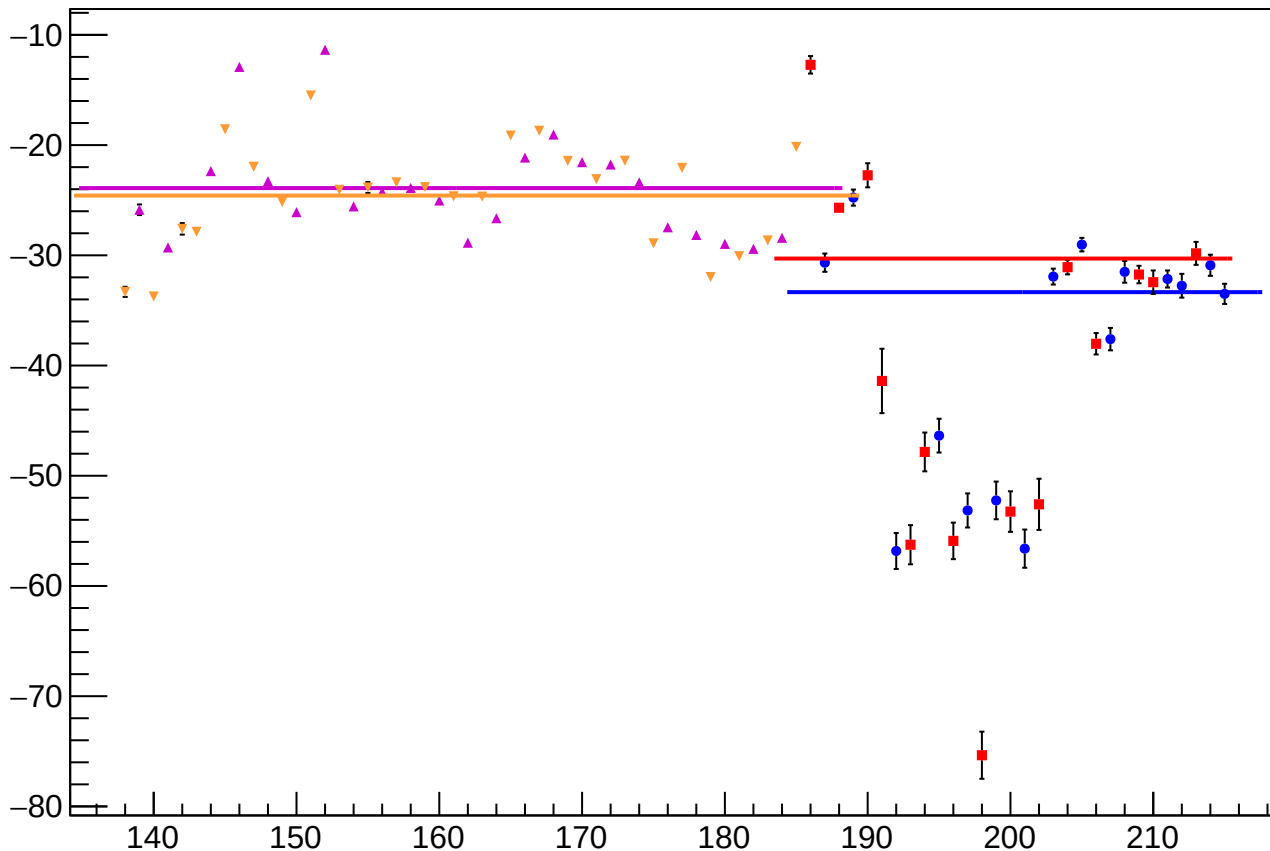
Right: -0.285 ± 0.012 $\chi^2/\text{NDF}: 3277.9/65$

In: 0.238 ± 0.004 $\chi^2/\text{NDF}: 3347.0/54$

Out: 0.227 ± 0.004 $\chi^2/\text{NDF}: 3667.3/58$

All: 0.232 ± 0.003 $\chi^2/\text{NDF}: 7017.3/113$

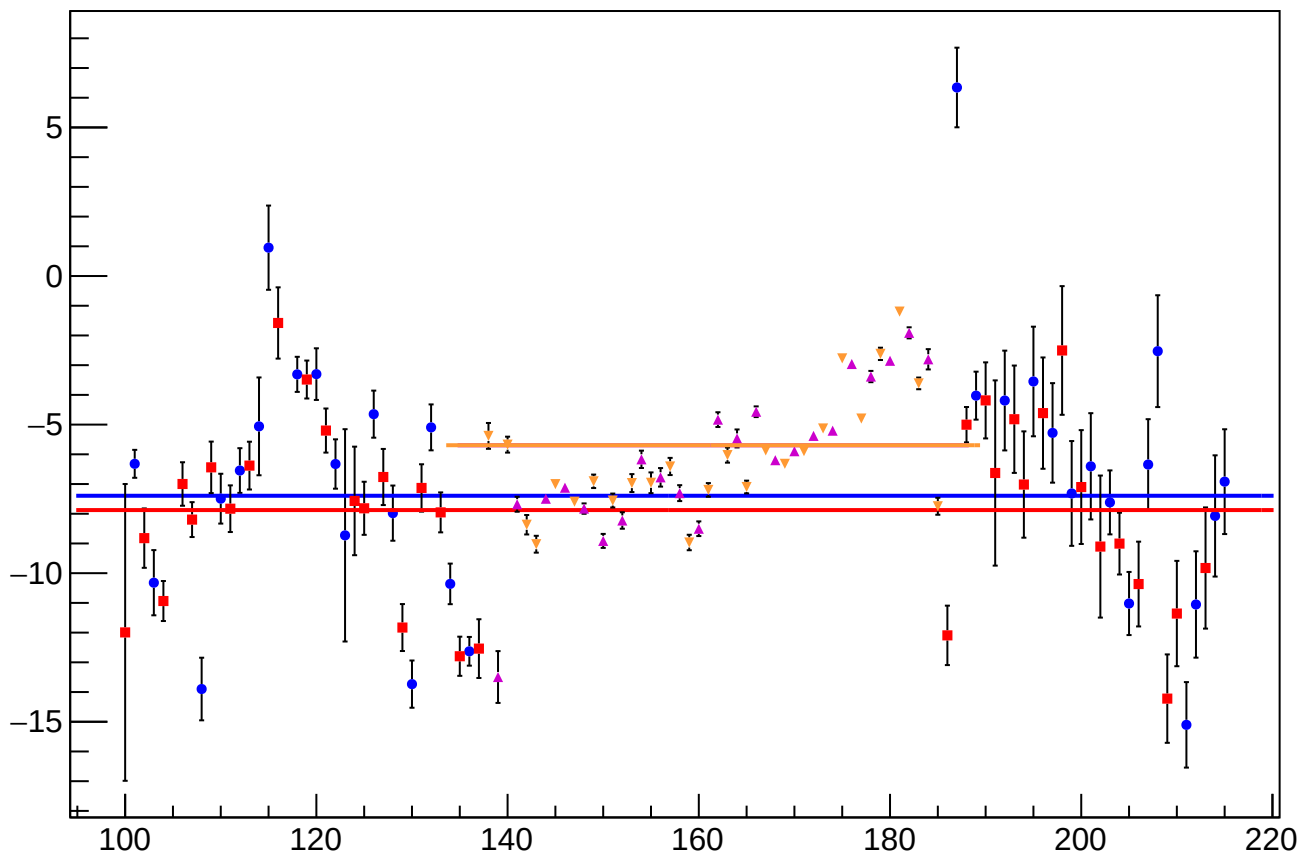
reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.341 ± 0.245 $\chi^2/\text{NDF}: 977.3/14$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -30.294 ± 0.247 $\chi^2/\text{NDF}: 1983.2/14$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$
 Right: -31.826 ± 0.174 $\chi^2/\text{NDF}: 3037.2/29$
 In: -24.293 ± 0.050 $\chi^2/\text{NDF}: 11550.2/37$
 Out: -24.811 ± 0.050 $\chi^2/\text{NDF}: 11088.3/39$
 All: -24.553 ± 0.035 $\chi^2/\text{NDF}: 22692.3/77$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.395 ± 0.167 χ^2/NDF : 565.8/31

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.876 ± 0.164 χ^2/NDF : 312.9/33

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

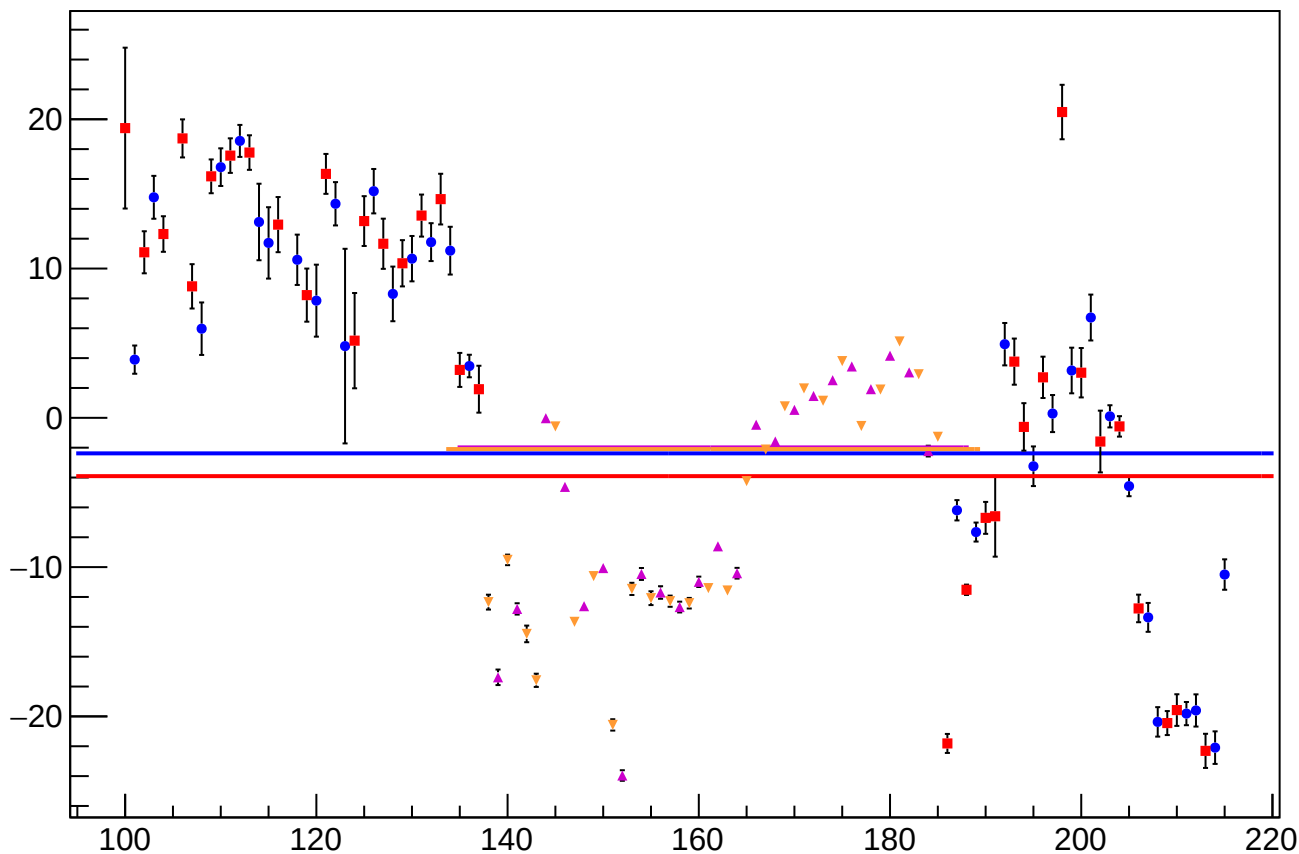
Right: -7.640 ± 0.117 χ^2/NDF : 882.9/65

In: -5.792 ± 0.040 χ^2/NDF : 2973.6/54

Out: -5.824 ± 0.040 χ^2/NDF : 2738.7/58

All: -5.808 ± 0.028 χ^2/NDF : 5712.7/113

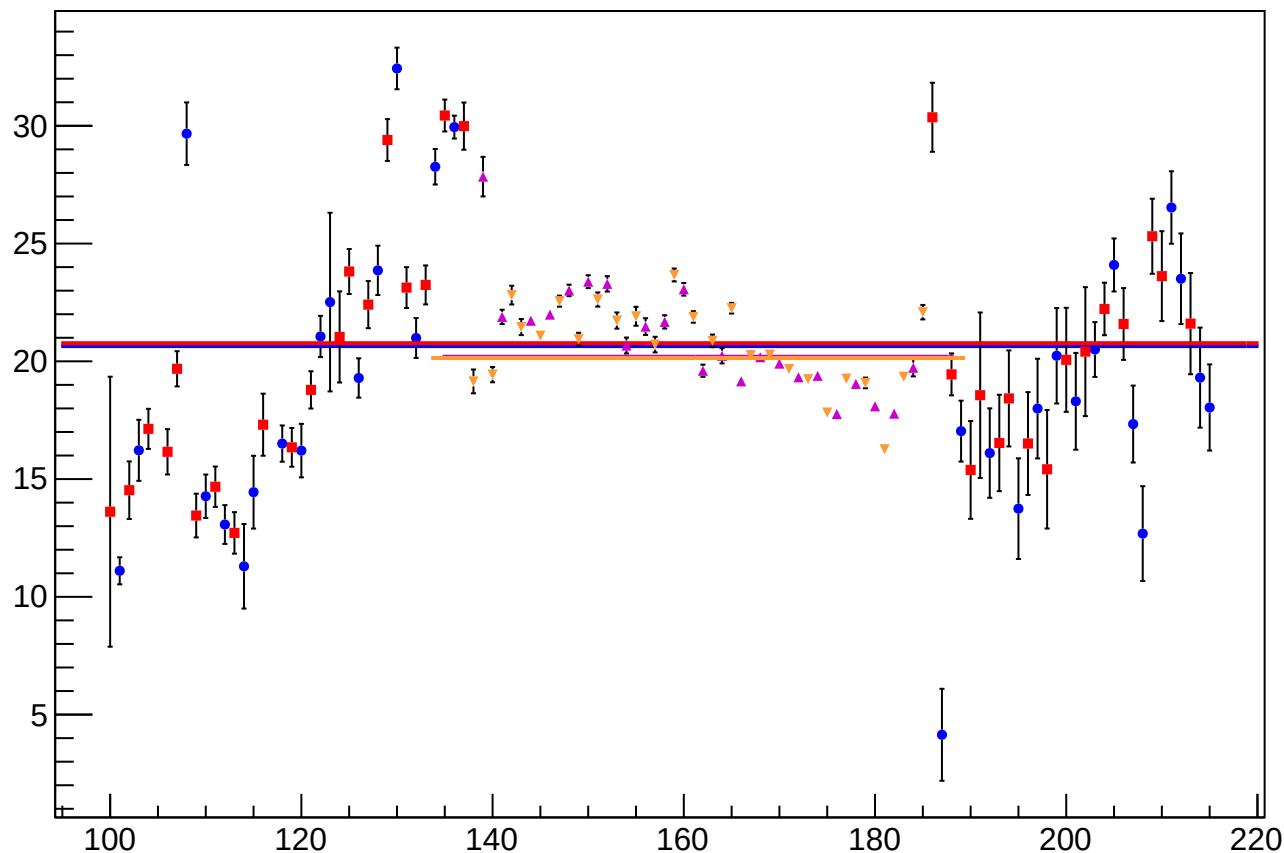
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.380 ± 0.195 χ^2/NDF : 3418.1/31
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -3.906 ± 0.184 χ^2/NDF : 5229.9/33
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -3.187 ± 0.134 χ^2/NDF : 8680.4/65
 In: -2.006 ± 0.050 χ^2/NDF : 18804.3/54
 Out: -2.223 ± 0.050 χ^2/NDF : 21625.4/58
 All: -2.115 ± 0.035 χ^2/NDF : 40439.4/113

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.647 $\pm$ 0.189 χ^2 /NDF: 1359.6/31

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.770 $\pm$ 0.191 χ^2 /NDF: 800.6/33

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF: 1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

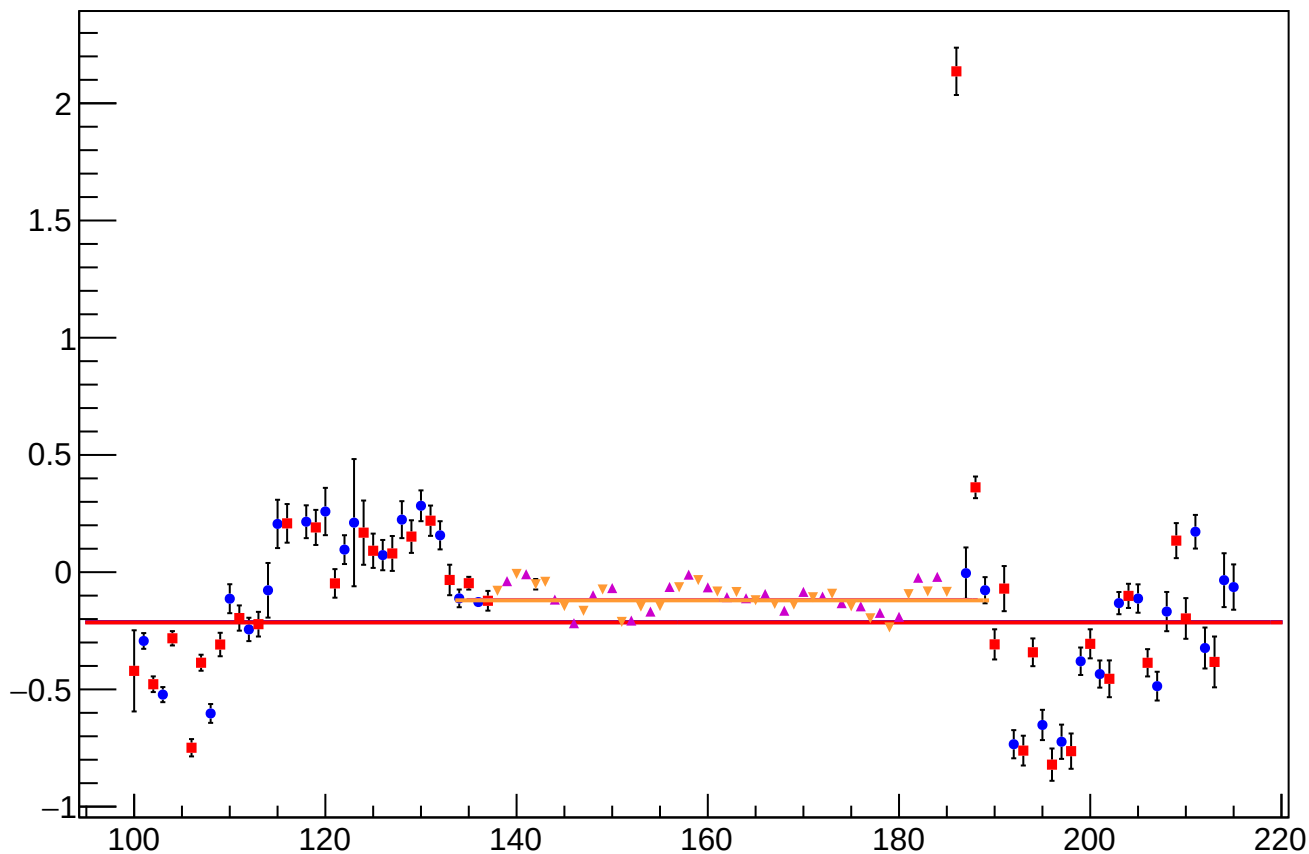
Right: 20.708 $\pm$ 0.135 χ^2 /NDF: 2160.3/65

In: 20.219 $\pm$ 0.045 χ^2 /NDF: 2812.3/54

Out: 20.175 $\pm$ 0.045 χ^2 /NDF: 2229.9/58

All: 20.197 $\pm$ 0.032 χ^2 /NDF: 5042.7/113

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.213 ± 0.009 $\chi^2/\text{NDF}: 733.9/31$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.214 ± 0.009 $\chi^2/\text{NDF}: 1494.7/33$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

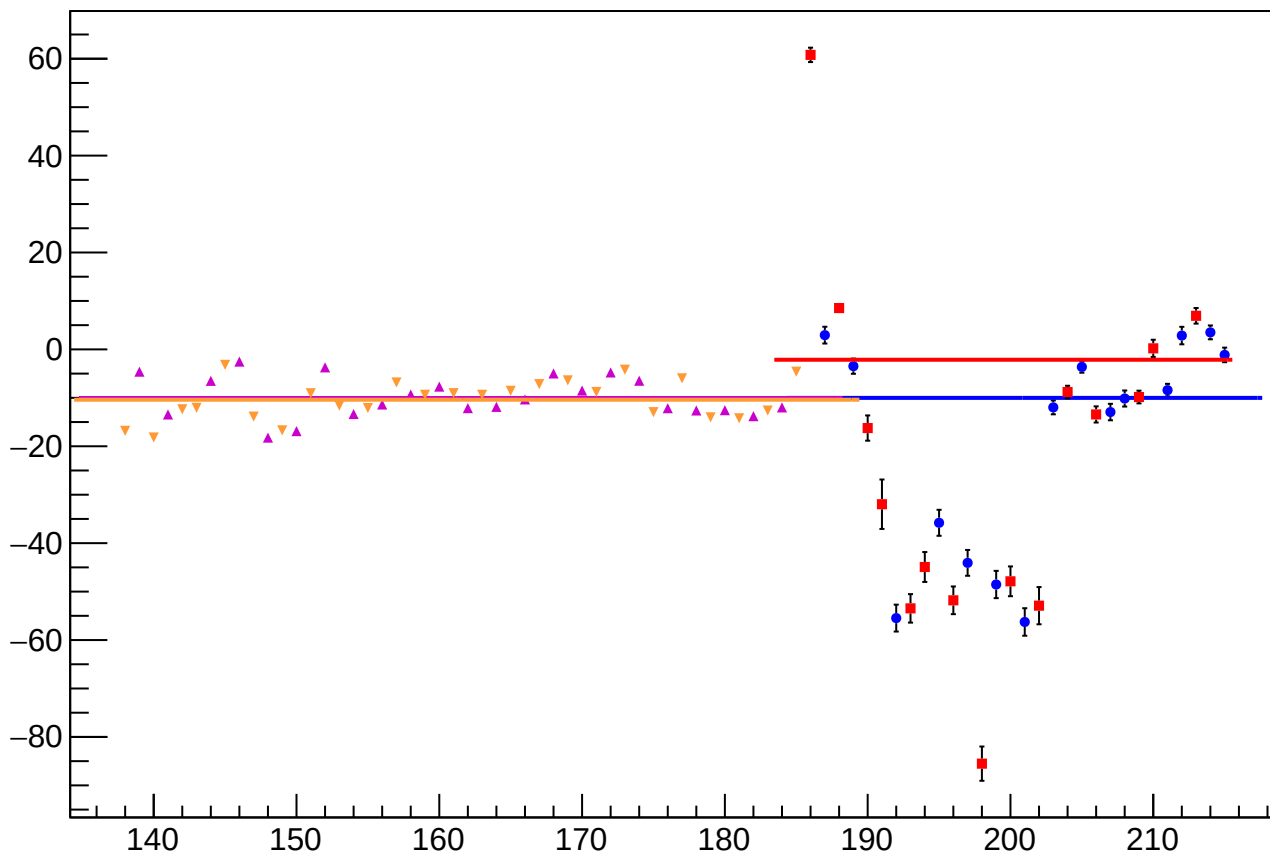
Right: -0.214 ± 0.007 $\chi^2/\text{NDF}: 2228.6/65$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1551.4/54$

Out: -0.125 ± 0.002 $\chi^2/\text{NDF}: 2123.3/58$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3675.0/113$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.011 ± 0.442 $\chi^2/\text{NDF}: 1259.9/14$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.140 ± 0.455 $\chi^2/\text{NDF}: 3900.2/14$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

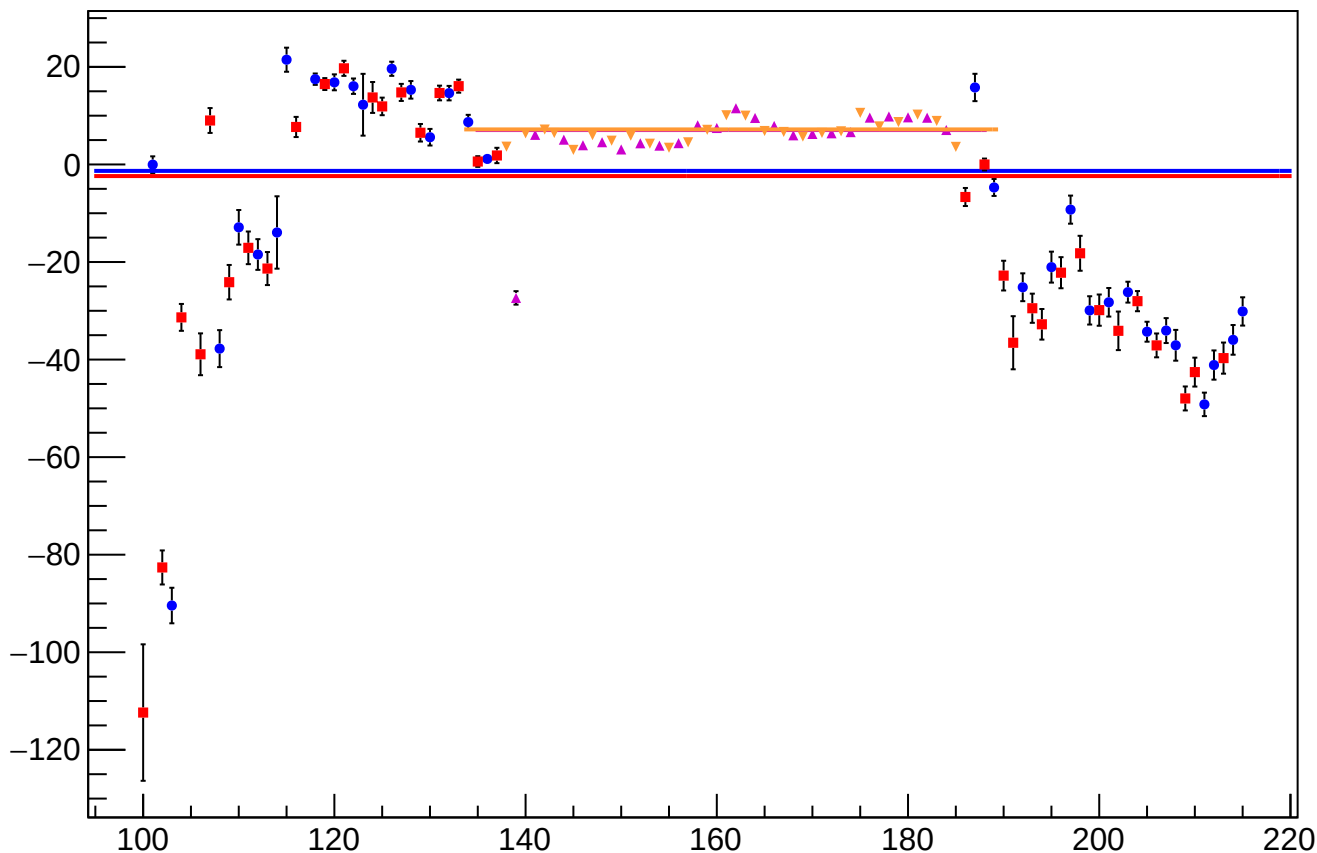
Right: -6.193 ± 0.317 $\chi^2/\text{NDF}: 5314.1/29$

In: -10.035 ± 0.088 $\chi^2/\text{NDF}: 3018.6/37$

Out: -10.094 ± 0.086 $\chi^2/\text{NDF}: 6328.6/39$

All: -10.065 ± 0.062 $\chi^2/\text{NDF}: 9347.4/77$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.318 ± 0.347 χ^2/NDF : 3635.6/31

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -2.381 ± 0.360 χ^2/NDF : 3375.0/33

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

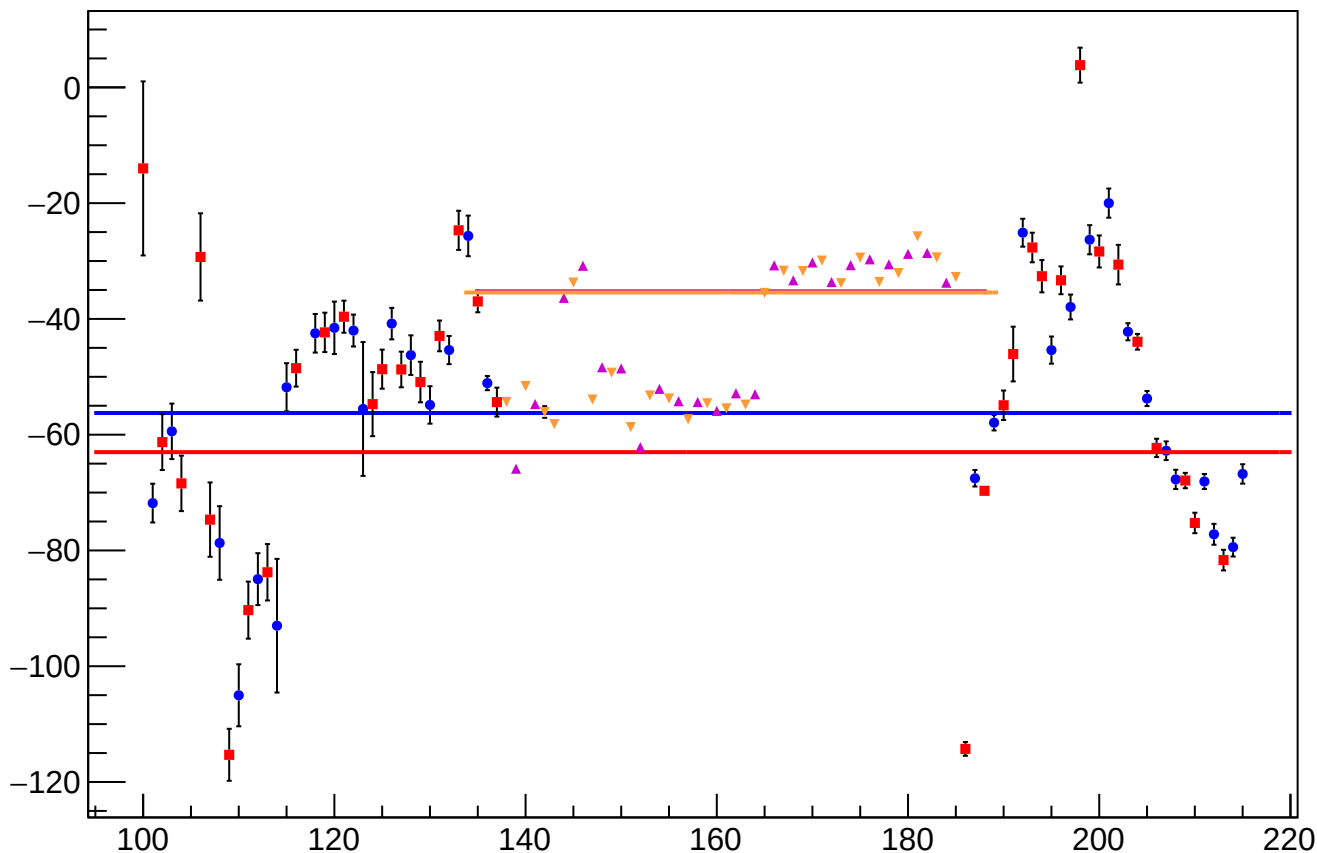
Right: -1.830 ± 0.250 χ^2/NDF : 7015.2/65

In: 6.687 ± 0.073 χ^2/NDF : 5727.1/54

Out: 6.801 ± 0.072 χ^2/NDF : 4971.0/58

All: 6.745 ± 0.051 χ^2/NDF : 10699.4/113

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



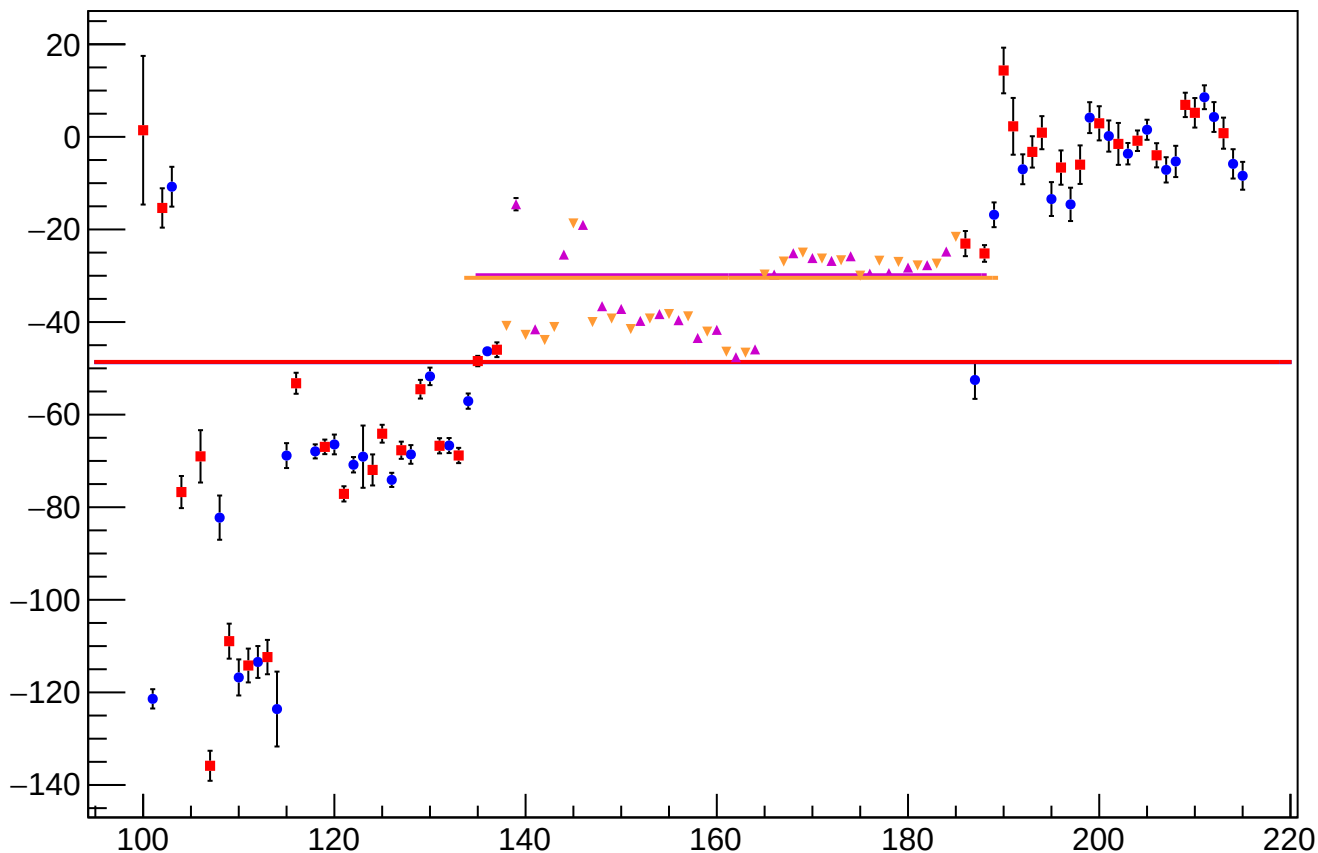
Right In: -56.253±/-0.373 χ^2/NDF : 1670.0/31
 Left Out: -35.434±/-0.089 χ^2/NDF :12782.8/24
 Right Out: -63.018±/-0.366 χ^2/NDF : 4340.0/33
 Left In: -35.229±/-0.090 χ^2/NDF :11602.9/22

Left: -35.333±/-0.063 χ^2/NDF : 24388.3/47
 Right: -59.704±/-0.261 χ^2/NDF : 6177.7/65

In: -36.387±/-0.088 χ^2/NDF :16271.8/54
 Out: -36.977±/-0.086 χ^2/NDF :22494.7/58

All: -36.686±/-0.062 χ^2/NDF : 38789.5/113

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -48.677 ± 0.388 $\chi^2/\text{NDF}: 6486.3/31$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -48.612 ± 0.412 $\chi^2/\text{NDF}: 5787.1/33$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

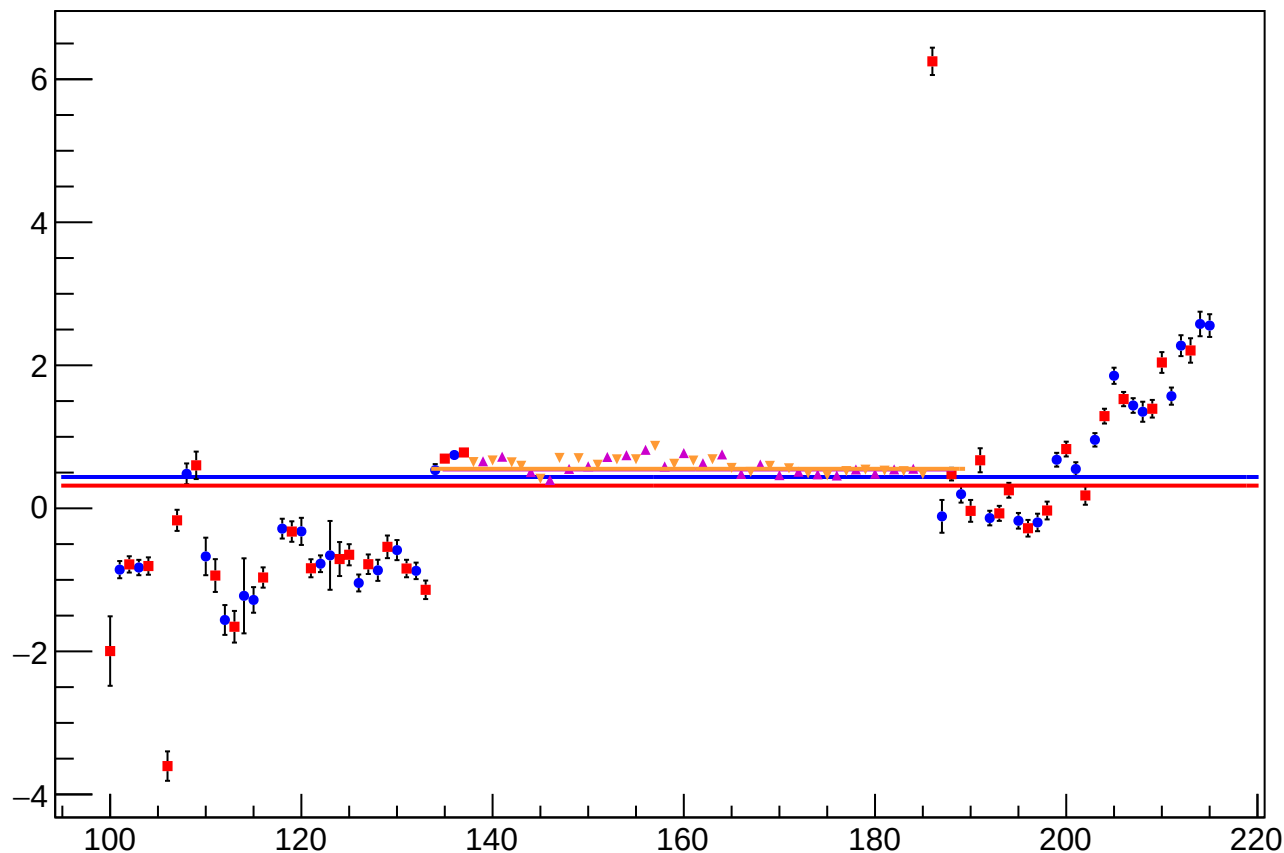
Right: -48.647 ± 0.282 $\chi^2/\text{NDF}: 12273.5/65$

In: -30.708 ± 0.081 $\chi^2/\text{NDF}: 15849.2/54$

Out: -31.131 ± 0.080 $\chi^2/\text{NDF}: 15822.8/58$

All: -30.922 ± 0.057 $\chi^2/\text{NDF}: 31685.8/113$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.438 $\pm$ 0.019 χ^2 /NDF: 2140.9/31

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.318 $\pm$ 0.020 χ^2 /NDF: 2987.9/33

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

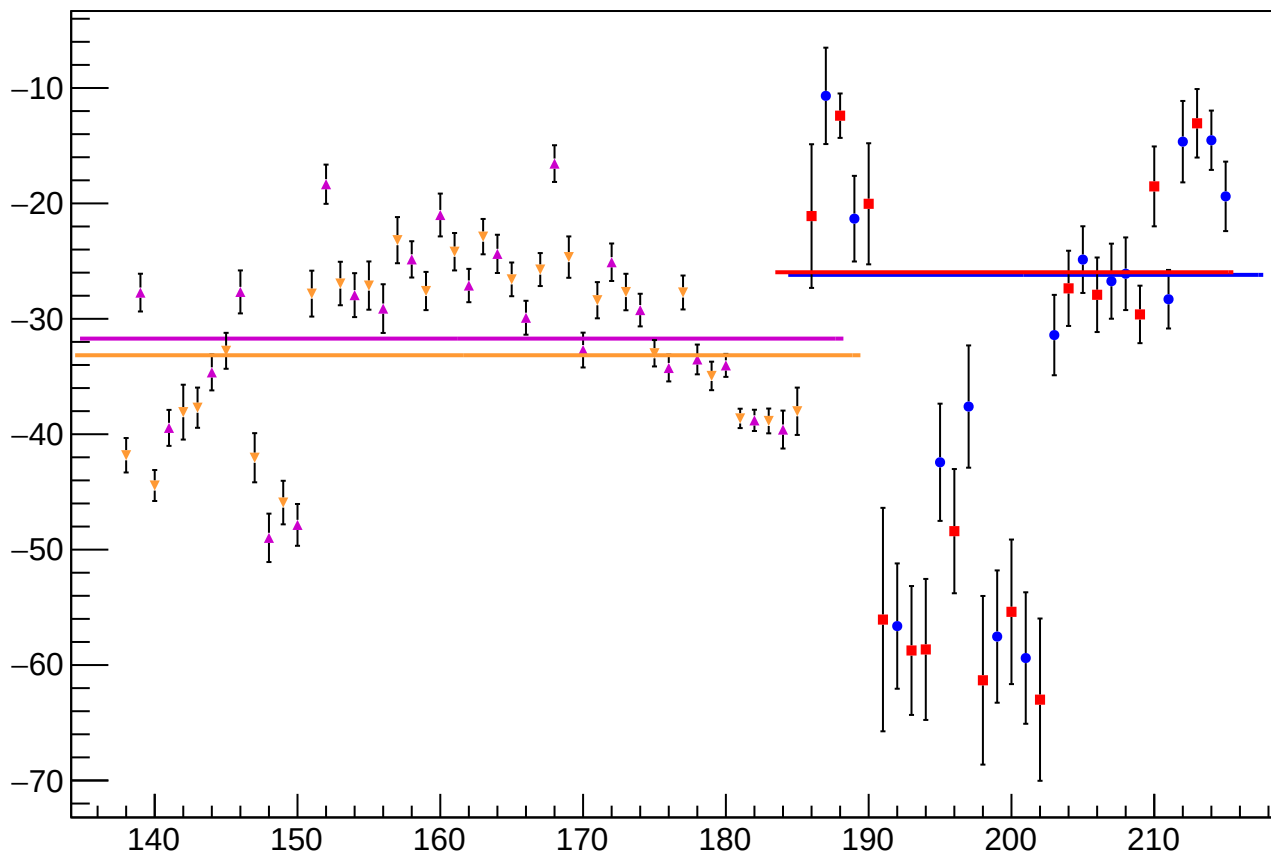
Right: 0.382 $\pm$ 0.014 χ^2 /NDF: 5148.1/65

In: 0.540 $\pm$ 0.004 χ^2 /NDF: 2826.9/54

Out: 0.545 $\pm$ 0.004 χ^2 /NDF: 3663.2/58

All: 0.542 $\pm$ 0.003 χ^2 /NDF: 6491.2/113

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.192 ± 0.915 χ^2/NDF : 165.2/14

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -25.965 ± 0.976 χ^2/NDF : 241.2/14

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

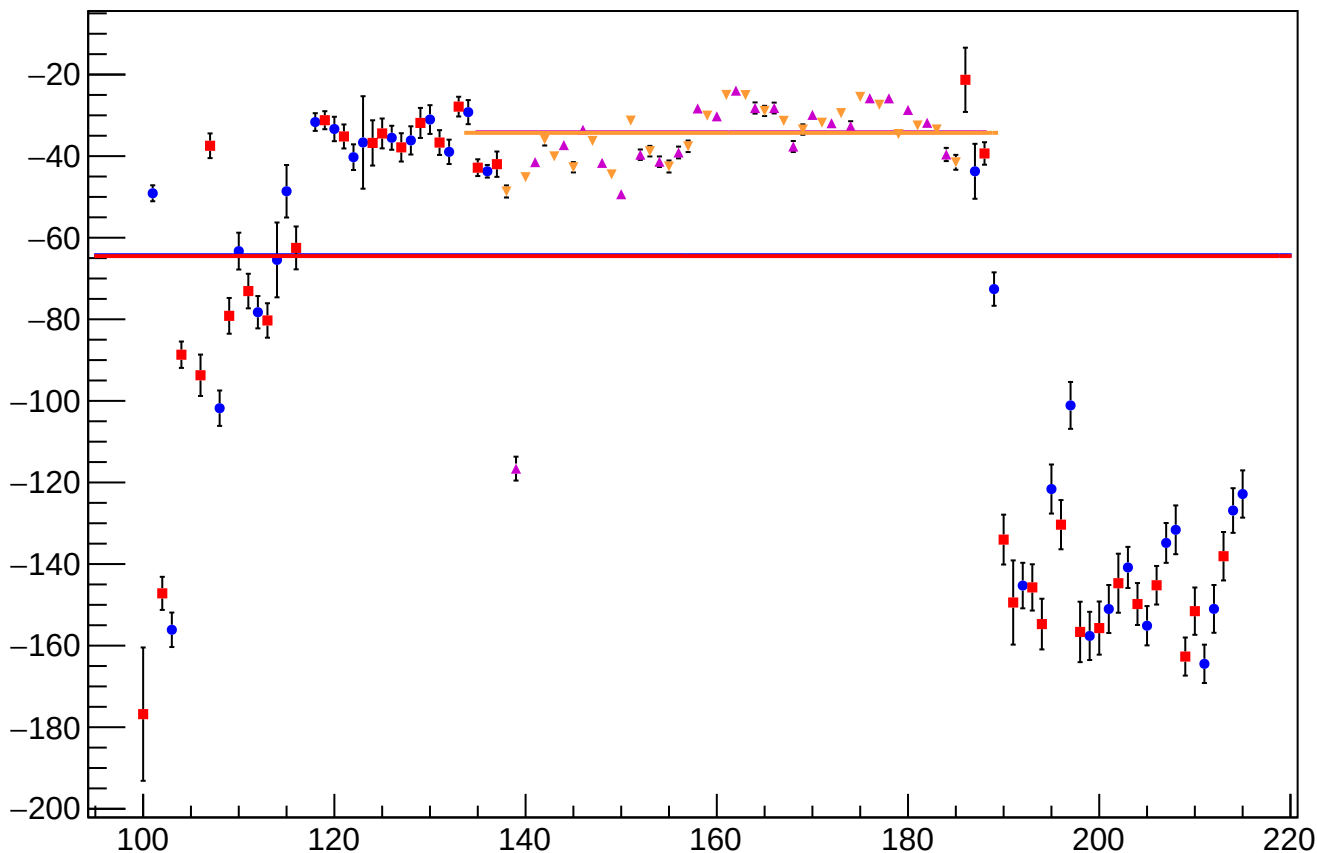
Right: -26.086 ± 0.668 χ^2/NDF : 406.4/29

In: -31.149 ± 0.293 χ^2/NDF : 740.2/37

Out: -32.536 ± 0.287 χ^2/NDF : 790.8/39

All: -31.856 ± 0.205 χ^2/NDF : 1542.5/77

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -64.293 ± 0.646 $\chi^2/\text{NDF}: 4313.8/31$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -64.503 ± 0.670 $\chi^2/\text{NDF}: 4400.5/33$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

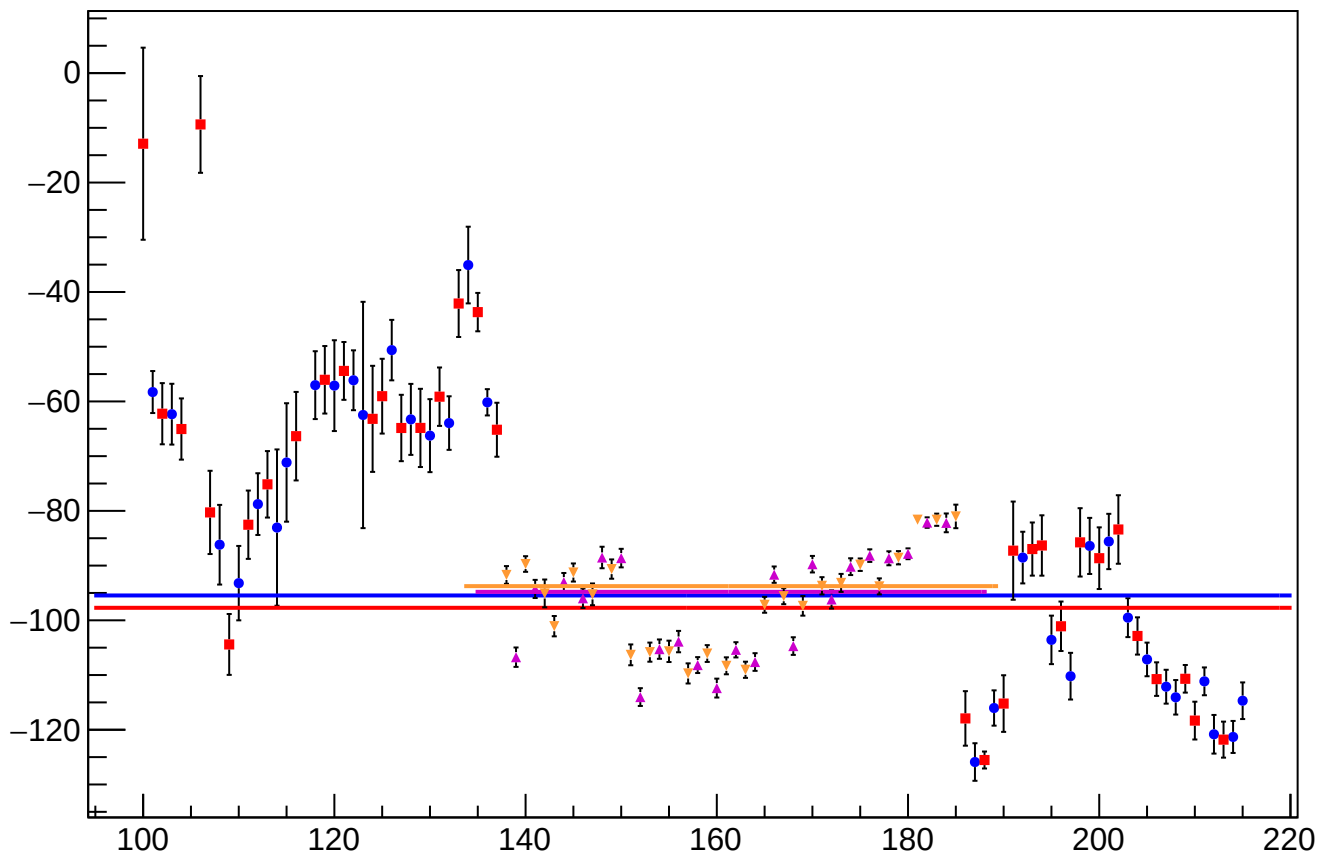
Right: -64.394 ± 0.465 $\chi^2/\text{NDF}: 8714.3/65$

In: -38.090 ± 0.234 $\chi^2/\text{NDF}: 7656.8/54$

Out: -37.760 ± 0.227 $\chi^2/\text{NDF}: 6895.5/58$

All: -37.920 ± 0.163 $\chi^2/\text{NDF}: 14553.4/113$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -95.459 ± 0.742 χ^2/NDF : 1125.2/31

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -97.713 ± 0.754 χ^2/NDF : 1370.9/33

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

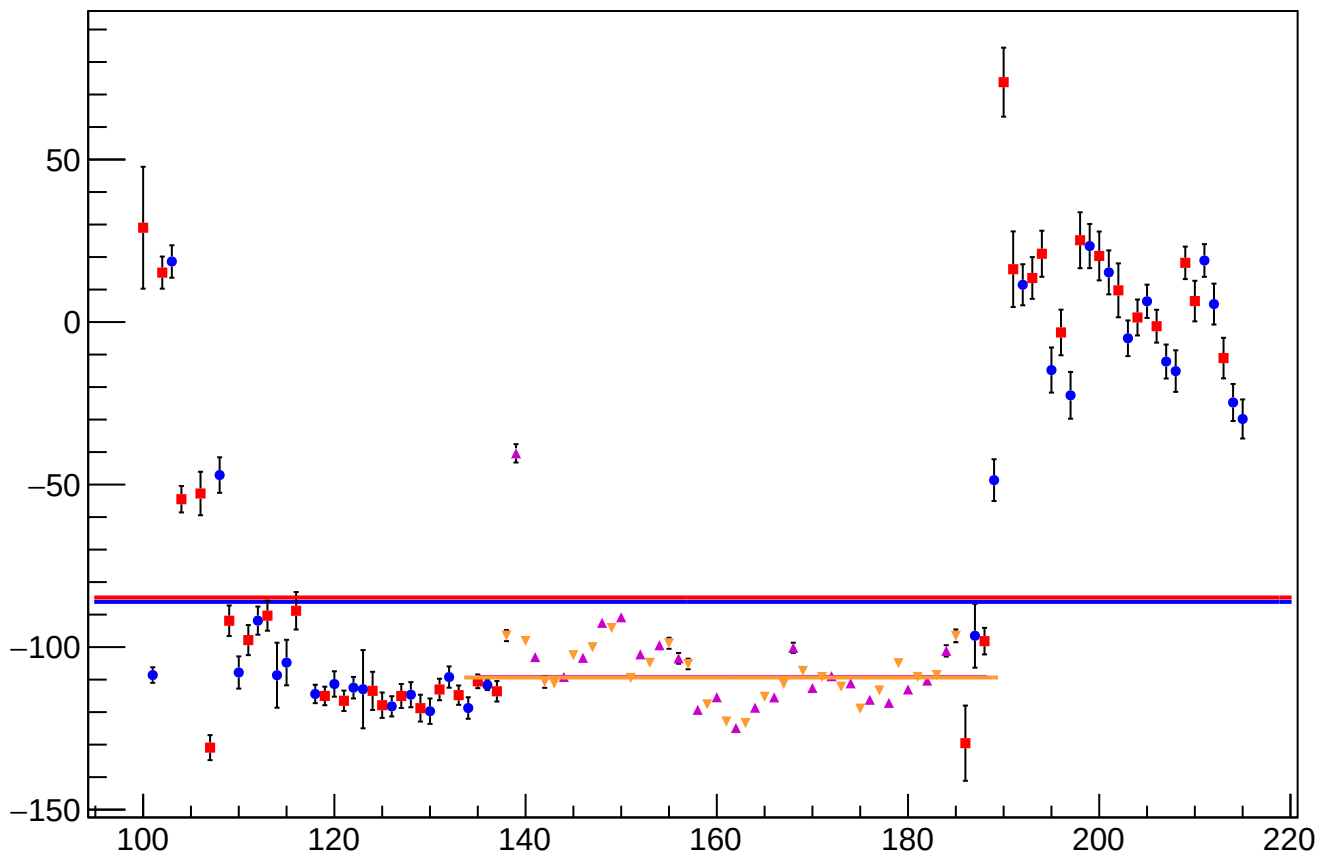
Right: -96.569 ± 0.529 χ^2/NDF : 2500.6/65

In: -94.894 ± 0.285 χ^2/NDF : 2100.6/54

Out: -94.301 ± 0.280 χ^2/NDF : 2277.7/58

All: -94.592 ± 0.200 χ^2/NDF : 4380.6/113

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.085 ± 0.727 $\chi^2/\text{NDF}: 4137.8/31$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -84.735 ± 0.767 $\chi^2/\text{NDF}: 4233.7/33$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

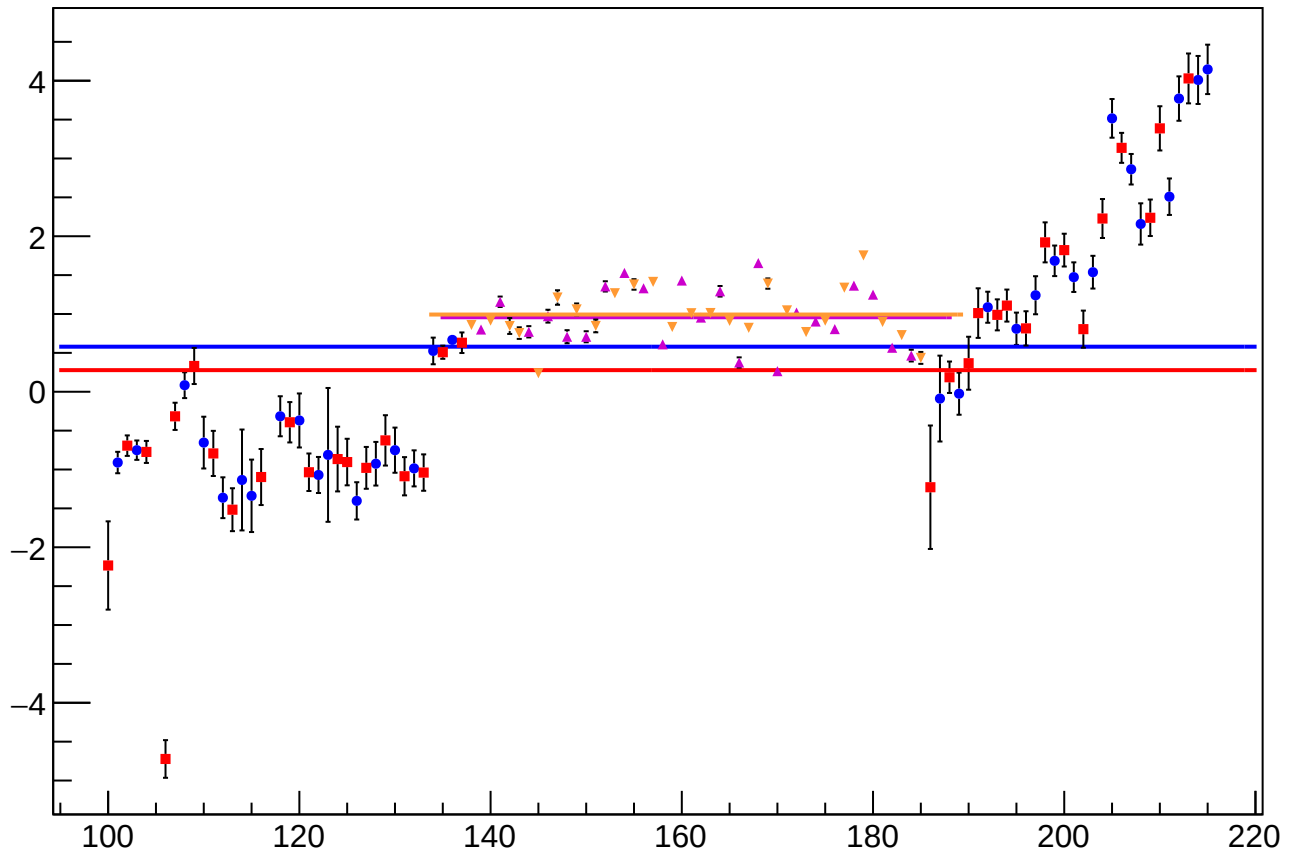
Right: -85.446 ± 0.528 $\chi^2/\text{NDF}: 8373.1/65$

In: -106.201 ± 0.261 $\chi^2/\text{NDF}: 6518.3/54$

Out: -106.613 ± 0.256 $\chi^2/\text{NDF}: 5976.6/58$

All: -106.412 ± 0.183 $\chi^2/\text{NDF}: 12496.2/113$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.579 ± 0.035 $\chi^2/\text{NDF}: 1418.2/31$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.278 ± 0.036 $\chi^2/\text{NDF}: 1553.4/33$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

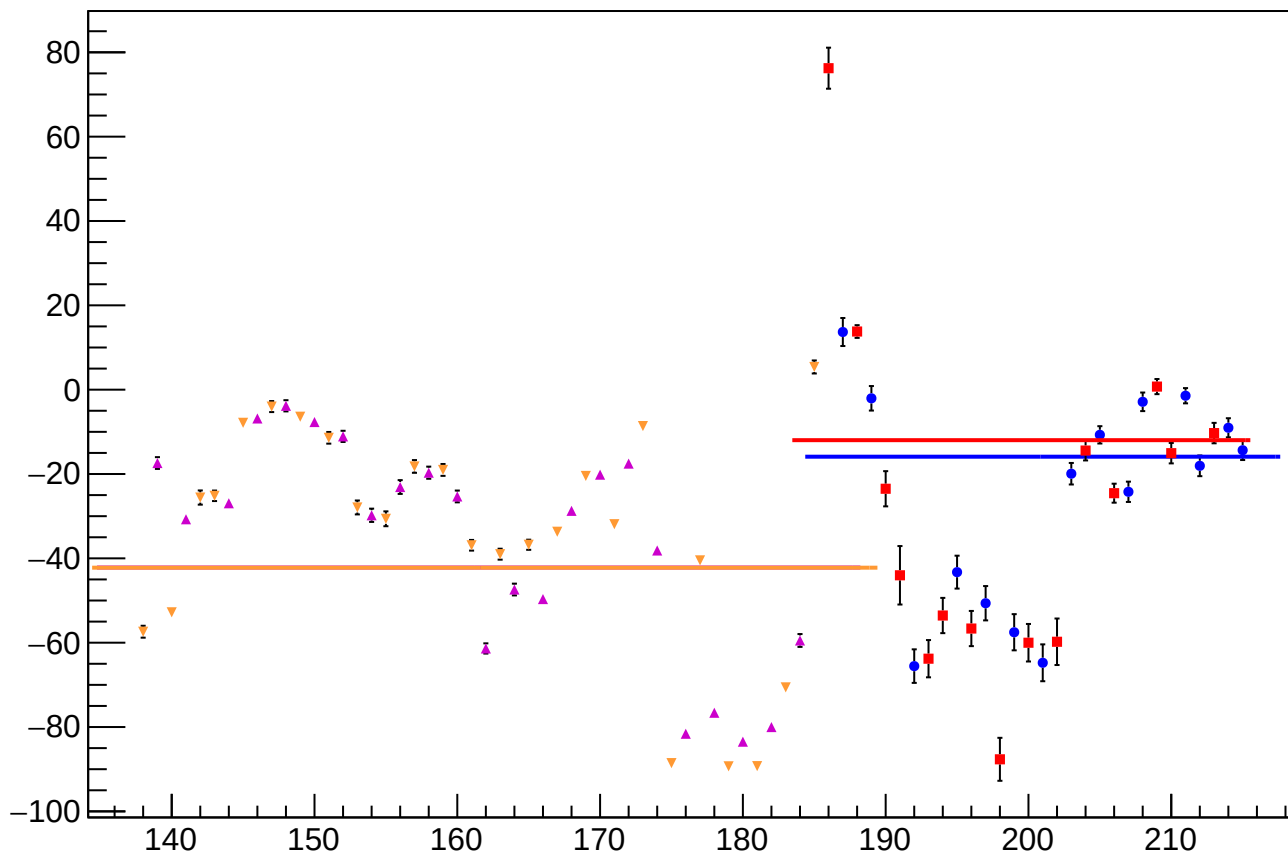
Right: 0.434 ± 0.025 $\chi^2/\text{NDF}: 3007.8/65$

In: 0.914 ± 0.012 $\chi^2/\text{NDF}: 2417.0/54$

Out: 0.917 ± 0.012 $\chi^2/\text{NDF}: 2543.0/58$

All: 0.916 ± 0.008 $\chi^2/\text{NDF}: 4960.0/113$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.893 ± 0.686 $\chi^2/\text{NDF}: 729.2/14$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -11.975 ± 0.730 $\chi^2/\text{NDF}: 1497.2/14$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

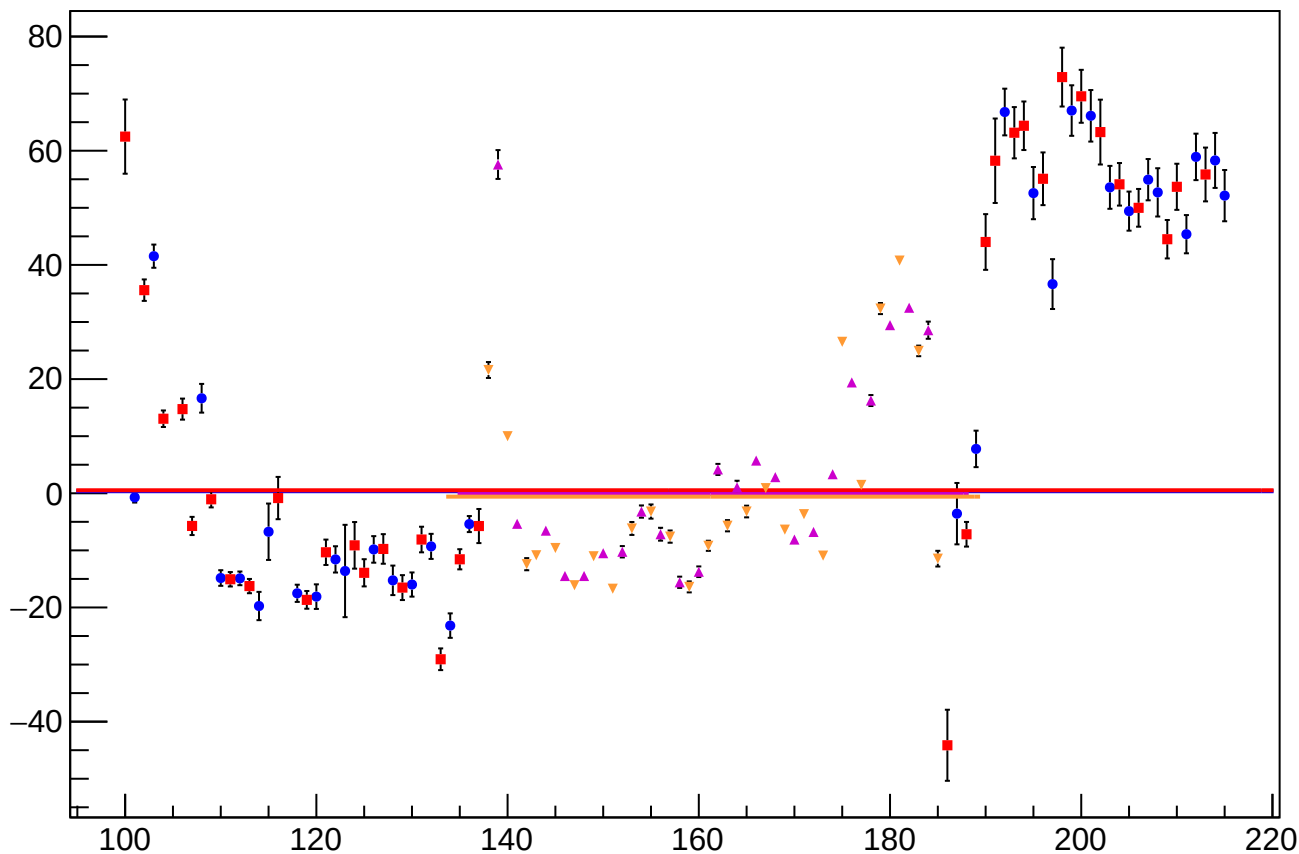
Right: -14.055 ± 0.500 $\chi^2/\text{NDF}: 2241.6/29$

In: -39.580 ± 0.216 $\chi^2/\text{NDF}: 16628.2/37$

Out: -39.651 ± 0.212 $\chi^2/\text{NDF}: 21377.9/39$

All: -39.616 ± 0.151 $\chi^2/\text{NDF}: 38006.1/77$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.360 ± 0.398 $\chi^2/\text{NDF}: 3684.6/31$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 0.527 ± 0.397 $\chi^2/\text{NDF}: 3743.4/33$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

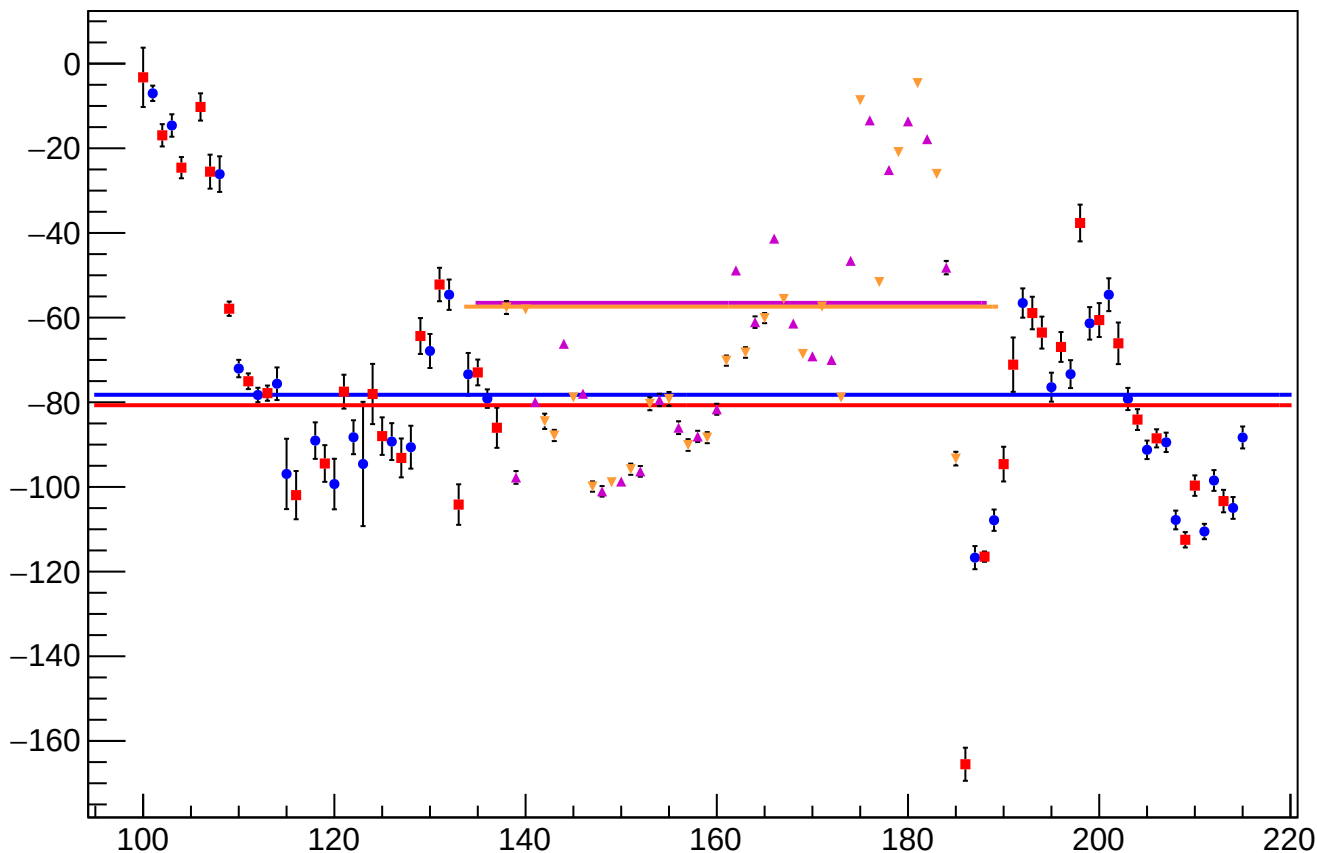
Right: 0.444 ± 0.281 $\chi^2/\text{NDF}: 7428.1/65$

In: -0.057 ± 0.163 $\chi^2/\text{NDF}: 10548.4/54$

Out: -0.409 ± 0.160 $\chi^2/\text{NDF}: 12501.0/58$

All: -0.237 ± 0.114 $\chi^2/\text{NDF}: 23051.7/113$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -78.230 ± 0.500 χ^2/NDF : 3554.1/31

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -80.697 ± 0.487 χ^2/NDF : 4209.1/33

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

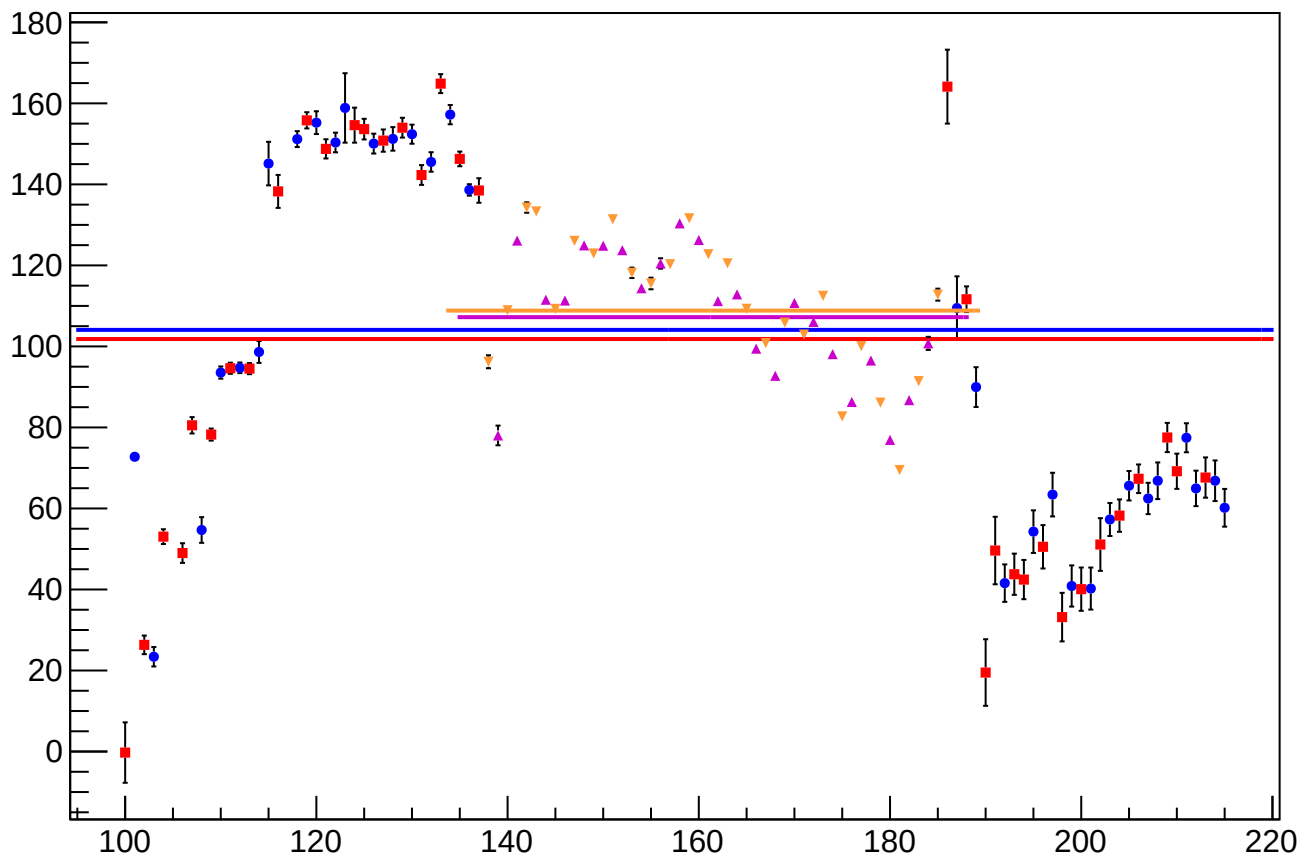
Right: -79.495 ± 0.349 χ^2/NDF : 7775.7/65

In: -60.231 ± 0.207 χ^2/NDF : 21469.8/54

Out: -61.451 ± 0.203 χ^2/NDF : 24700.1/58

All: -60.852 ± 0.145 χ^2/NDF : 46187.7/113

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.084 $\pm$ 0.452 χ^2 /NDF: 7421.9/31

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 101.826 $\pm$ 0.454 χ^2 /NDF: 8420.9/33

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

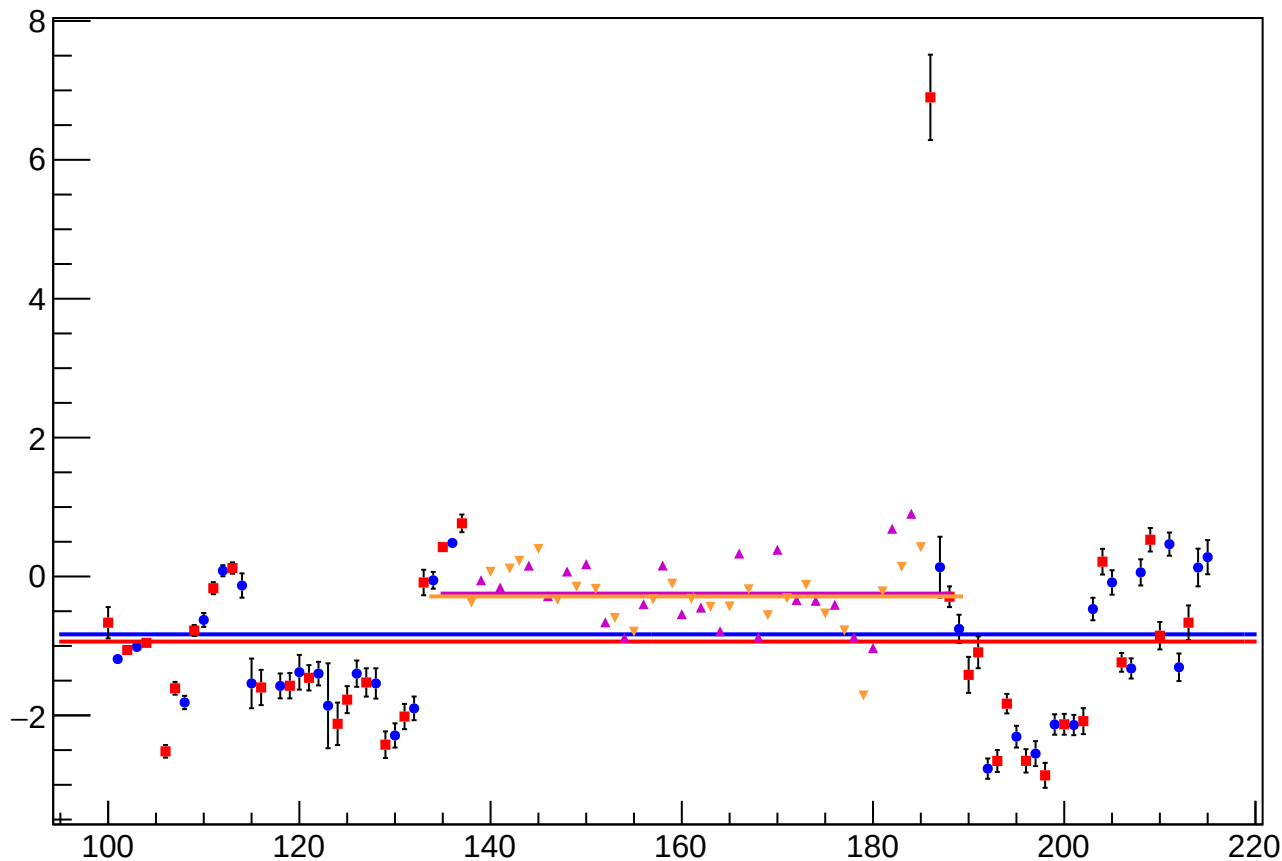
Right: 102.959 $\pm$ 0.320 χ^2 /NDF: 15855.1/65

In: 106.701 $\pm$ 0.185 χ^2 /NDF: 13027.3/54

Out: 107.731 $\pm$ 0.181 χ^2 /NDF: 16022.2/58

All: 107.227 $\pm$ 0.129 χ^2 /NDF: 29065.3/113

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.833 ± 0.023 $\chi^2/\text{NDF}: 1692.8/31$

Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$

Right Out: -0.937 ± 0.022 $\chi^2/\text{NDF}: 2112.1/33$

Left In: -0.247 ± 0.009 $\chi^2/\text{NDF}: 2792.8/22$

Left: -0.267 ± 0.006 $\chi^2/\text{NDF}: 4855.3/47$

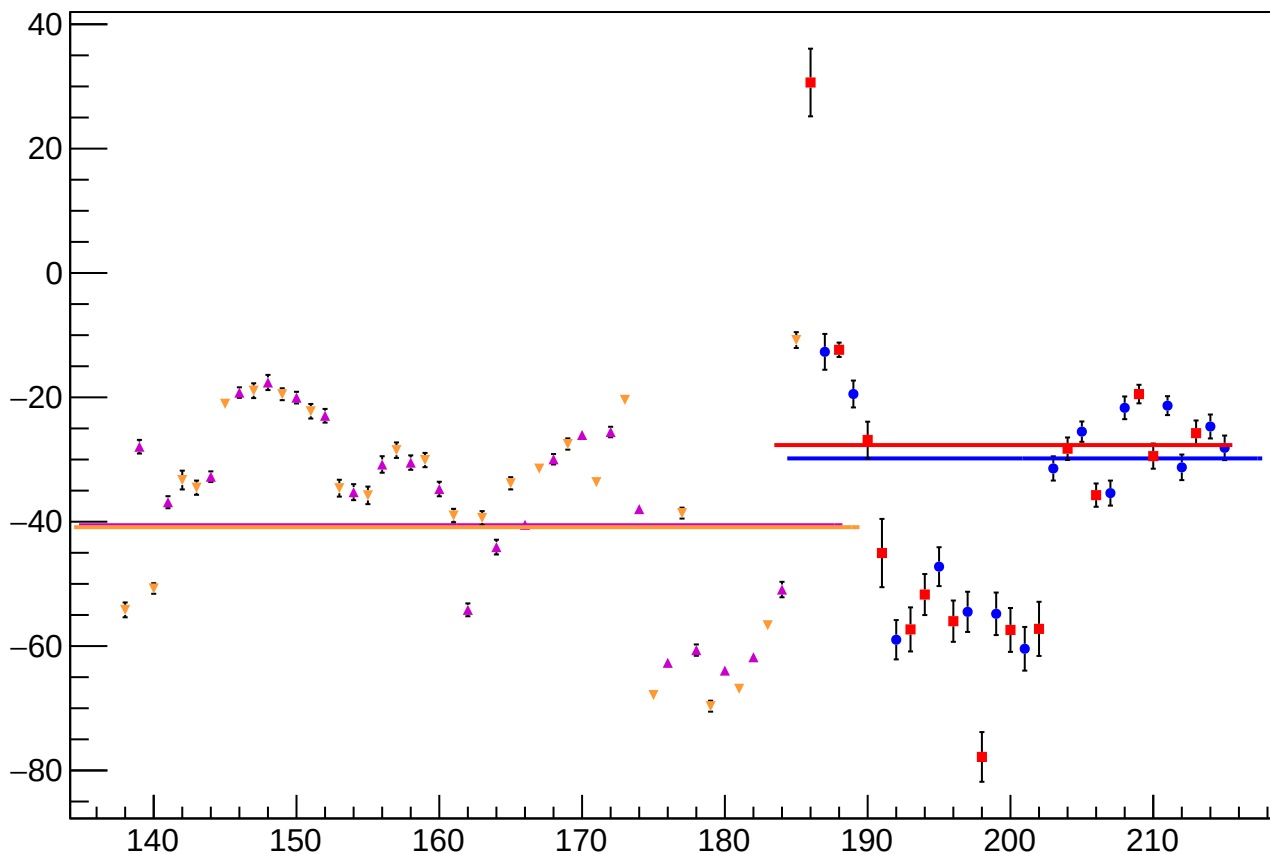
Right: -0.887 ± 0.016 $\chi^2/\text{NDF}: 3816.1/65$

In: -0.332 ± 0.009 $\chi^2/\text{NDF}: 5066.7/54$

Out: -0.385 ± 0.008 $\chi^2/\text{NDF}: 4939.1/58$

All: -0.359 ± 0.006 $\chi^2/\text{NDF}: 10025.6/113$

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected

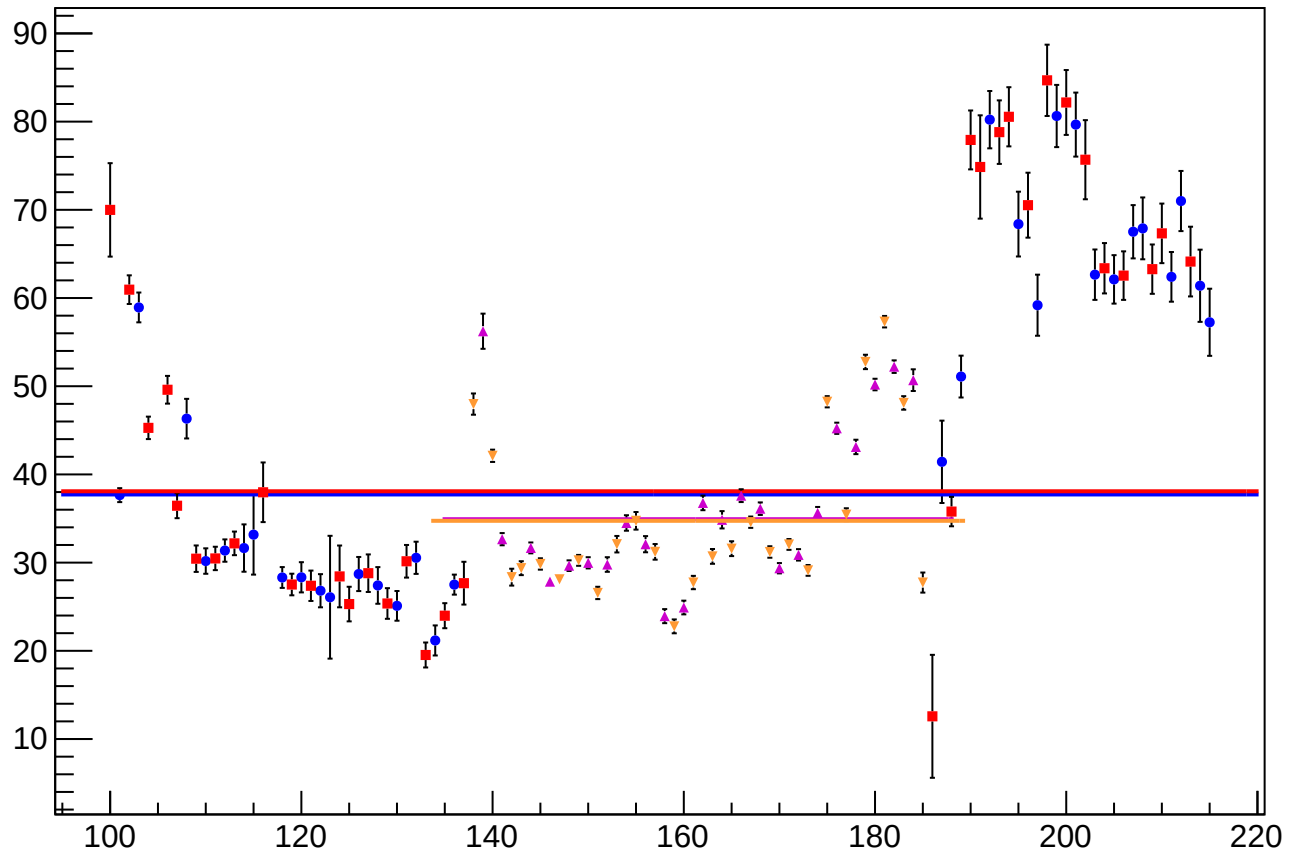


Right In: -29.822 ± 0.561 $\chi^2/\text{NDF}: 436.5/14$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -27.676 ± 0.586 $\chi^2/\text{NDF}: 821.6/14$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -28.795 ± 0.405 $\chi^2/\text{NDF}: 1265.1/29$
 In: -39.463 ± 0.180 $\chi^2/\text{NDF}: 7720.3/37$
 Out: -39.668 ± 0.177 $\chi^2/\text{NDF}: 10406.5/39$

All: -39.567 ± 0.126 $\chi^2/\text{NDF}: 18127.4/77$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.728 $\pm$ 0.343 χ^2 /NDF: 1805.3/31

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF: 3693.2/24

Right Out: 38.089 $\pm$ 0.345 χ^2 /NDF: 2209.5/33

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF: 2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

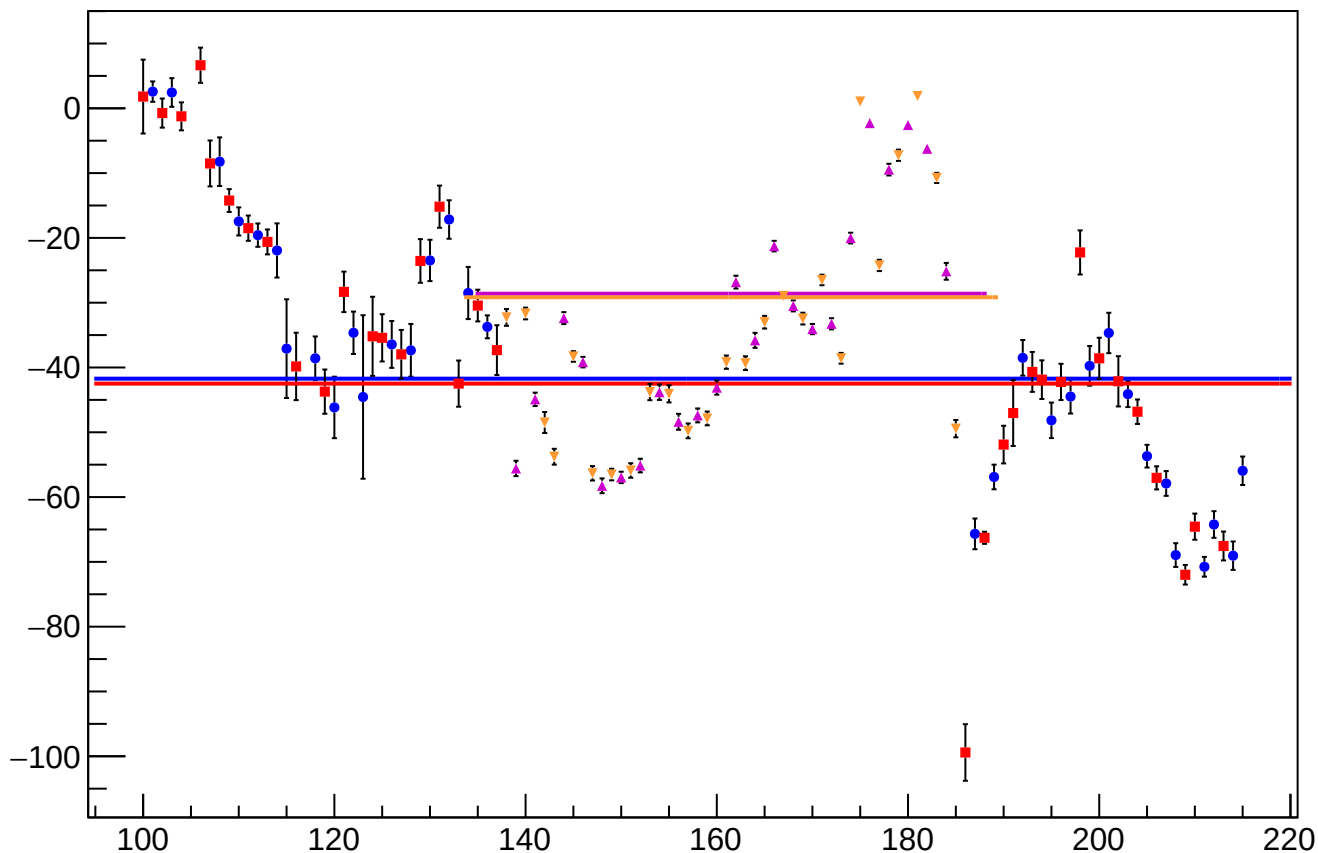
Right: 37.908 $\pm$ 0.243 χ^2 /NDF: 4015.3/65

In: 35.380 $\pm$ 0.139 χ^2 /NDF: 4534.1/54

Out: 35.258 $\pm$ 0.136 χ^2 /NDF: 5982.4/58

All: 35.318 $\pm$ 0.097 χ^2 /NDF: 10516.9/113

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.724 ± 0.425 χ^2/NDF : 2912.3/31

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -42.491 ± 0.414 χ^2/NDF : 3449.5/33

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

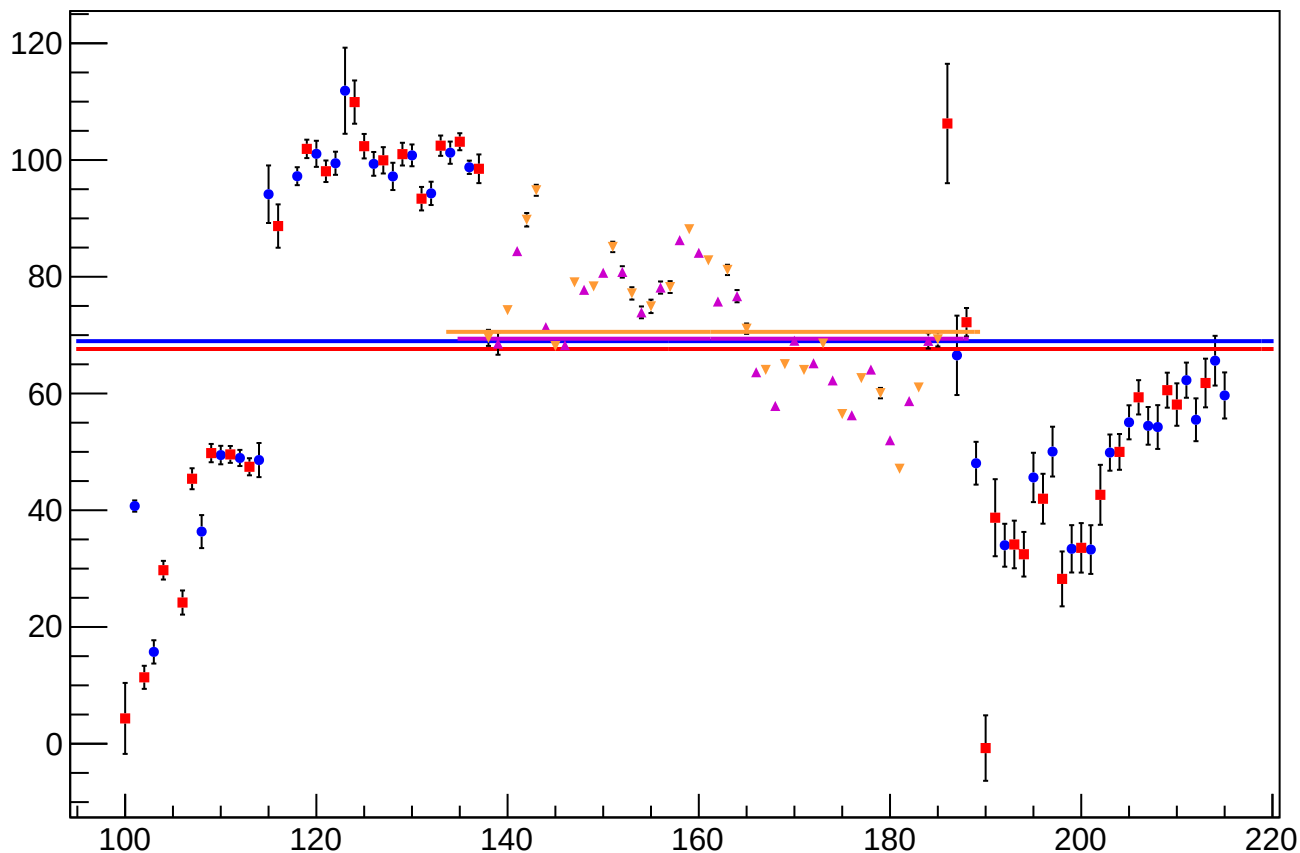
Right: -42.118 ± 0.296 χ^2/NDF : 6363.5/65

In: -30.798 ± 0.173 χ^2/NDF : 12746.9/54

Out: -31.424 ± 0.170 χ^2/NDF : 14437.0/58

All: -31.116 ± 0.122 χ^2/NDF : 27190.6/113

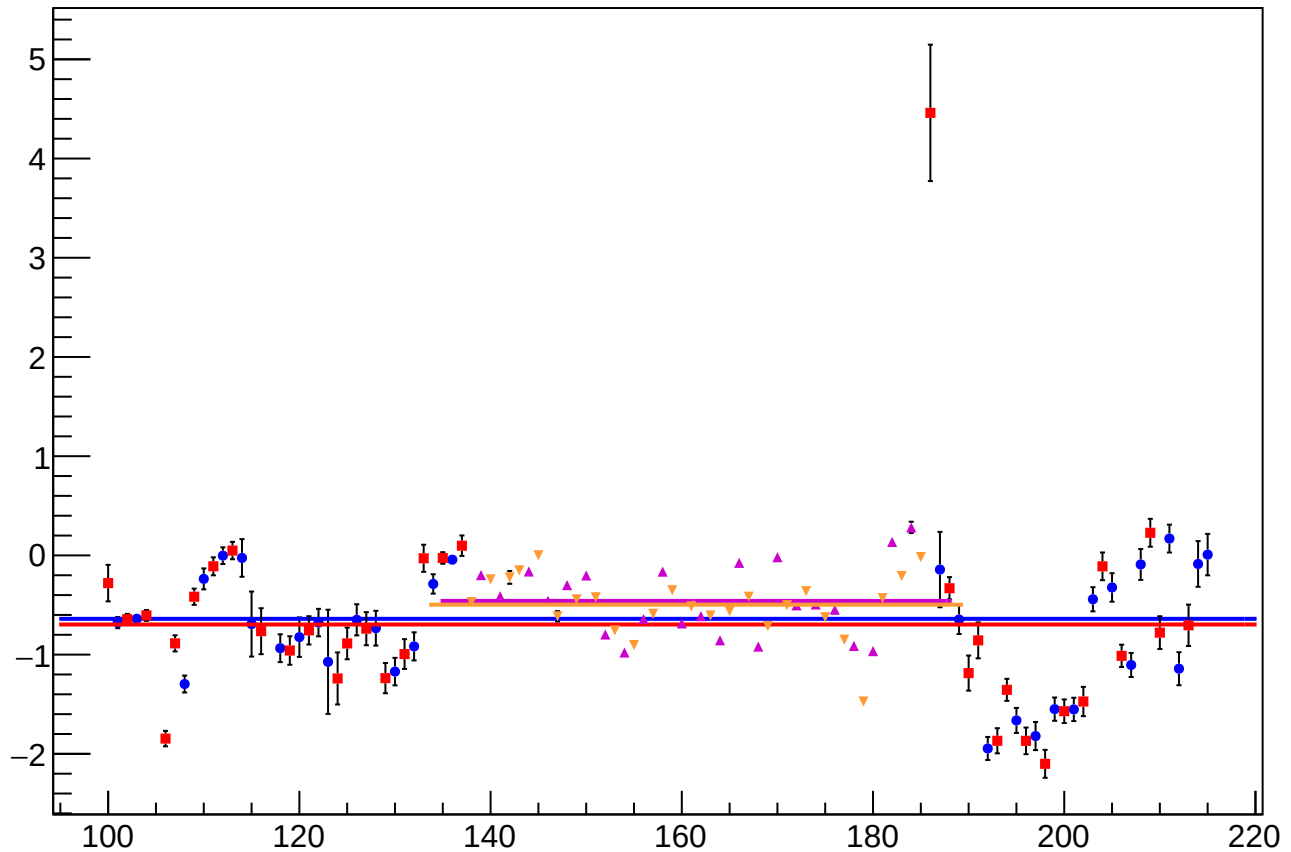
reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.970 ± 0.391 $\chi^2/\text{NDF}: 5185.4/31$
 Left Out: 70.563 ± 0.166 $\chi^2/\text{NDF}: 4589.1/24$
 Right Out: 67.625 ± 0.397 $\chi^2/\text{NDF}: 6135.2/33$
 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: 68.307 ± 0.279 $\chi^2/\text{NDF}: 11326.4/65$
 In: 69.321 ± 0.156 $\chi^2/\text{NDF}: 8508.2/54$
 Out: 70.125 ± 0.153 $\chi^2/\text{NDF}: 10770.9/58$
 All: 69.730 ± 0.109 $\chi^2/\text{NDF}: 19292.5/113$

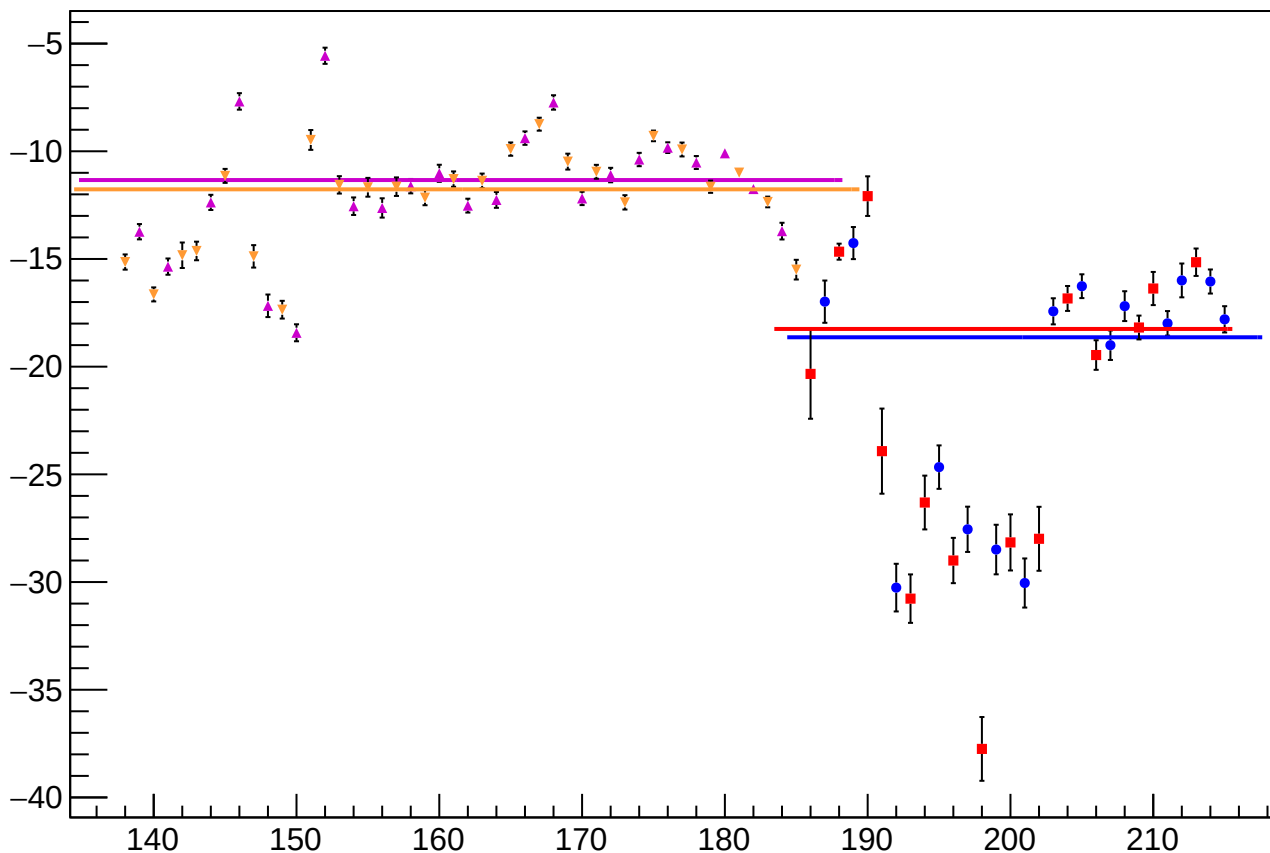
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.639 ± 0.019 $\chi^2/\text{NDF}: 818.1/31$
 Left Out: -0.497 ± 0.008 $\chi^2/\text{NDF}: 1449.3/24$
 Right Out: -0.696 ± 0.018 $\chi^2/\text{NDF}: 1121.9/33$
 Left In: -0.459 ± 0.008 $\chi^2/\text{NDF}: 1958.4/22$

Left: -0.478 ± 0.005 $\chi^2/\text{NDF}: 3419.9/47$
 Right: -0.669 ± 0.013 $\chi^2/\text{NDF}: 1944.6/65$
 In: -0.484 ± 0.007 $\chi^2/\text{NDF}: 2853.1/54$
 Out: -0.525 ± 0.007 $\chi^2/\text{NDF}: 2671.0/58$
 All: -0.505 ± 0.005 $\chi^2/\text{NDF}: 5541.1/113$

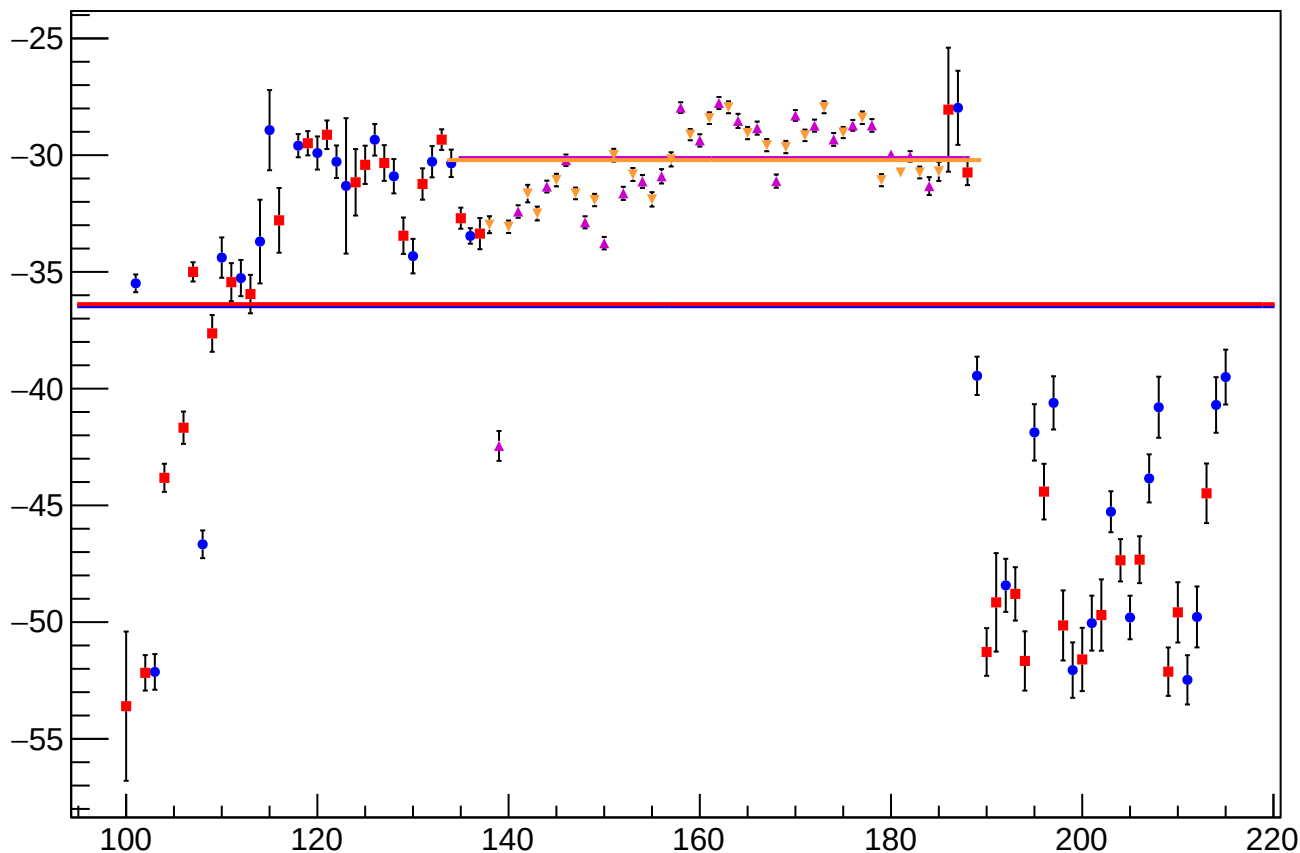
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.636 ± 0.189 $\chi^2/\text{NDF}: 491.7/14$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.249 ± 0.199 $\chi^2/\text{NDF}: 730.2/14$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$
 Right: -18.452 ± 0.137 $\chi^2/\text{NDF}: 1223.9/29$
 In: -12.170 ± 0.064 $\chi^2/\text{NDF}: 3076.9/37$
 Out: -12.421 ± 0.063 $\chi^2/\text{NDF}: 2704.9/39$
 All: -12.297 ± 0.045 $\chi^2/\text{NDF}: 5789.6/77$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.468 ± 0.134 $\chi^2/\text{NDF}: 2775.0/31$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.382 ± 0.133 $\chi^2/\text{NDF}: 3156.7/33$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

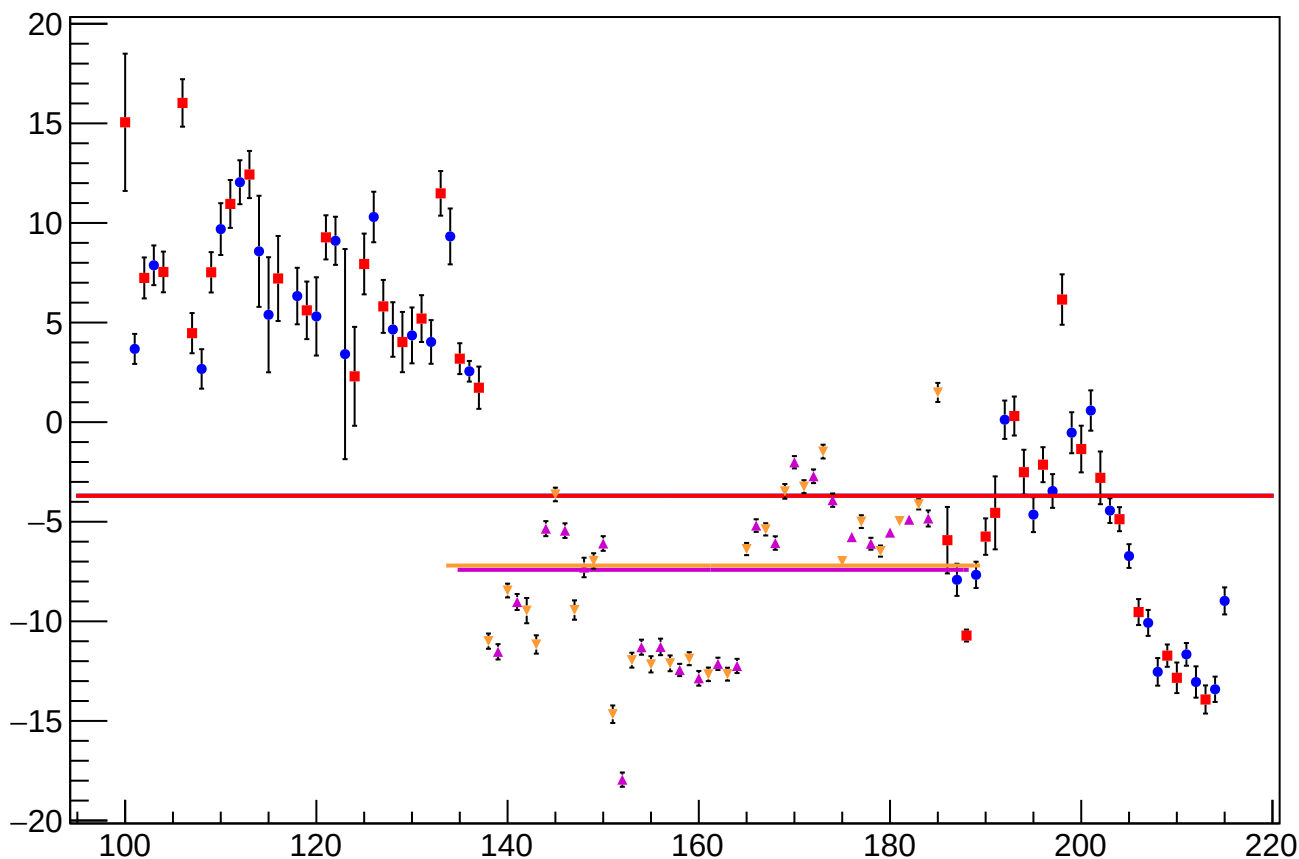
Right: -36.425 ± 0.094 $\chi^2/\text{NDF}: 5931.9/65$

In: -31.054 ± 0.051 $\chi^2/\text{NDF}: 5915.9/54$

Out: -31.080 ± 0.050 $\chi^2/\text{NDF}: 5737.7/58$

All: -31.067 ± 0.036 $\chi^2/\text{NDF}: 11653.7/113$

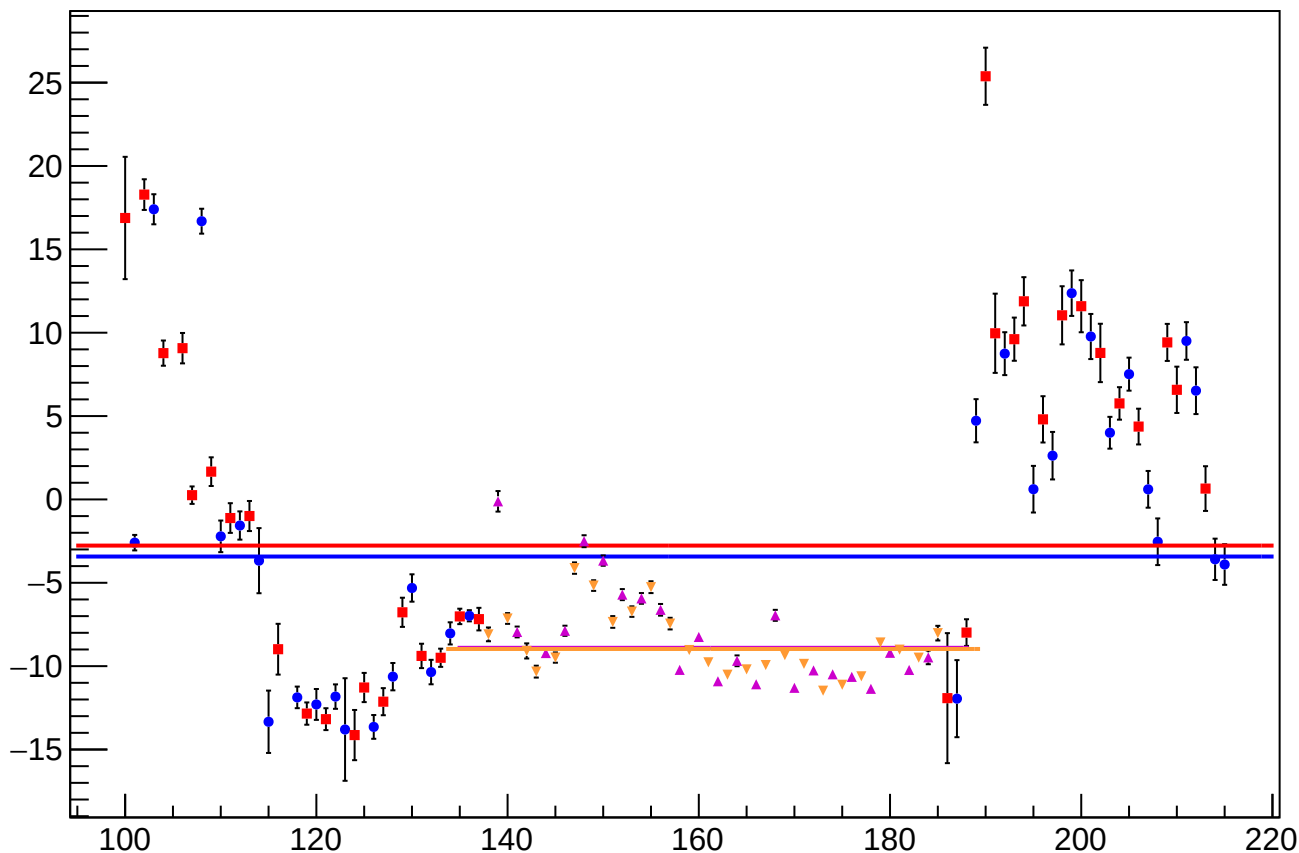
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.688 ± 0.154 χ^2/NDF : 2291.9/31
 Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24
 Right Out: -3.699 ± 0.152 χ^2/NDF : 3030.8/33
 Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47
 Right: -3.694 ± 0.108 χ^2/NDF : 5322.7/65
 In: -6.806 ± 0.062 χ^2/NDF : 5907.6/54
 Out: -6.632 ± 0.061 χ^2/NDF : 6511.6/58
 All: -6.718 ± 0.044 χ^2/NDF : 12423.2/113

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.425 ± 0.151 χ^2/NDF : 3013.5/31

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.769 ± 0.154 χ^2/NDF : 3237.1/33

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

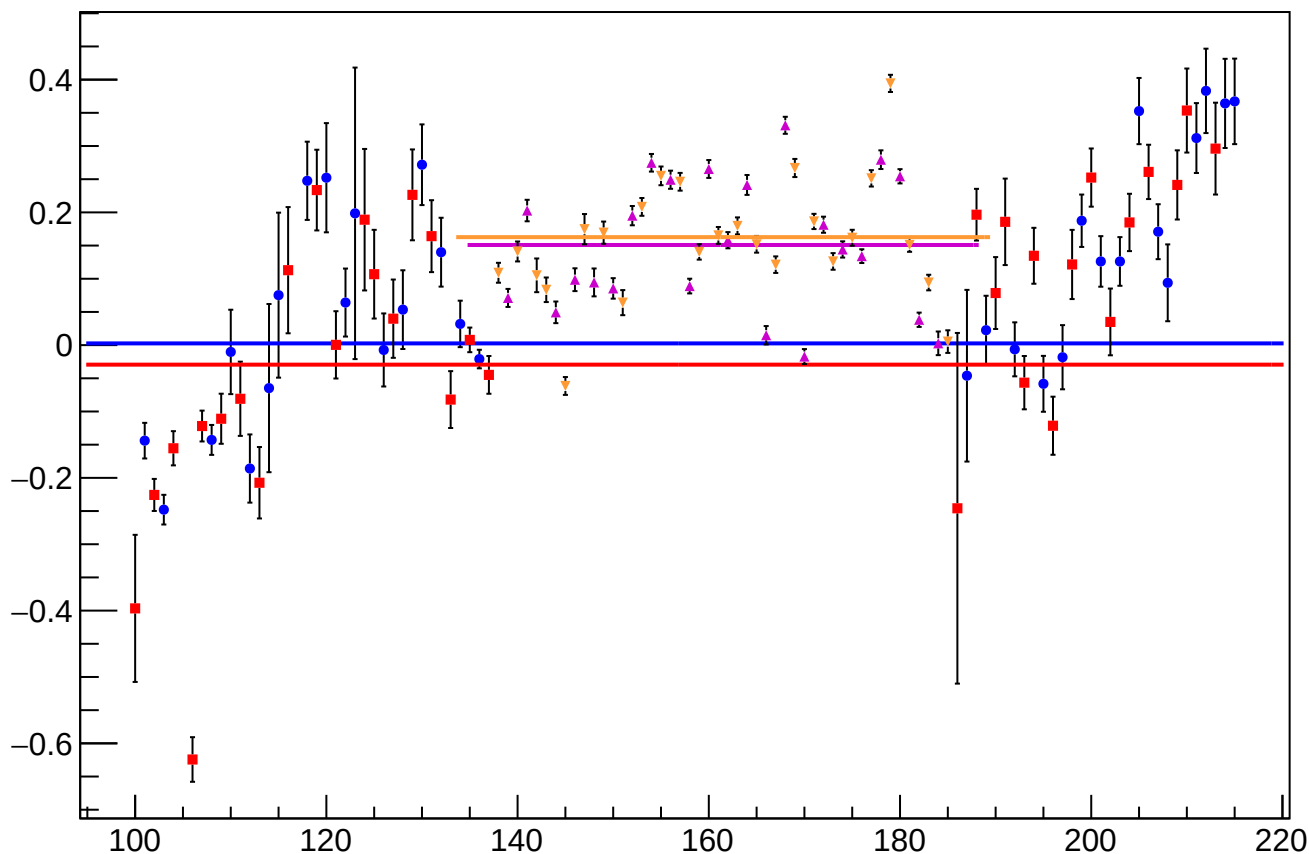
Right: -3.104 ± 0.108 χ^2/NDF : 6259.9/65

In: -8.120 ± 0.057 χ^2/NDF : 5671.4/54

Out: -8.152 ± 0.056 χ^2/NDF : 5516.6/58

All: -8.136 ± 0.040 χ^2/NDF : 11188.1/113

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.003 ± 0.007 χ^2/NDF : 516.7/31

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.029 ± 0.007 χ^2/NDF : 791.5/33

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

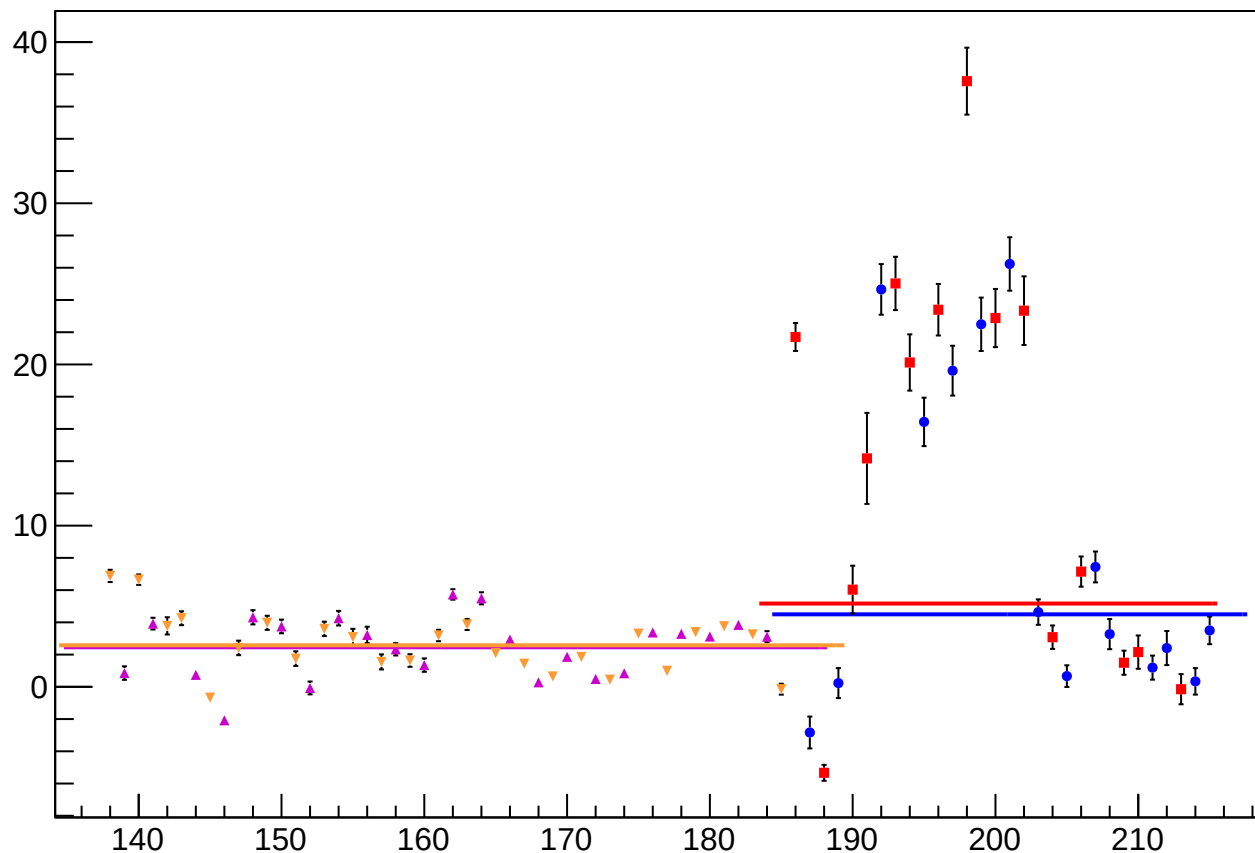
Right: -0.013 ± 0.005 χ^2/NDF : 1318.6/65

In: 0.131 ± 0.003 χ^2/NDF : 2194.6/54

Out: 0.138 ± 0.003 χ^2/NDF : 2458.4/58

All: 0.134 ± 0.002 χ^2/NDF : 4656.7/113

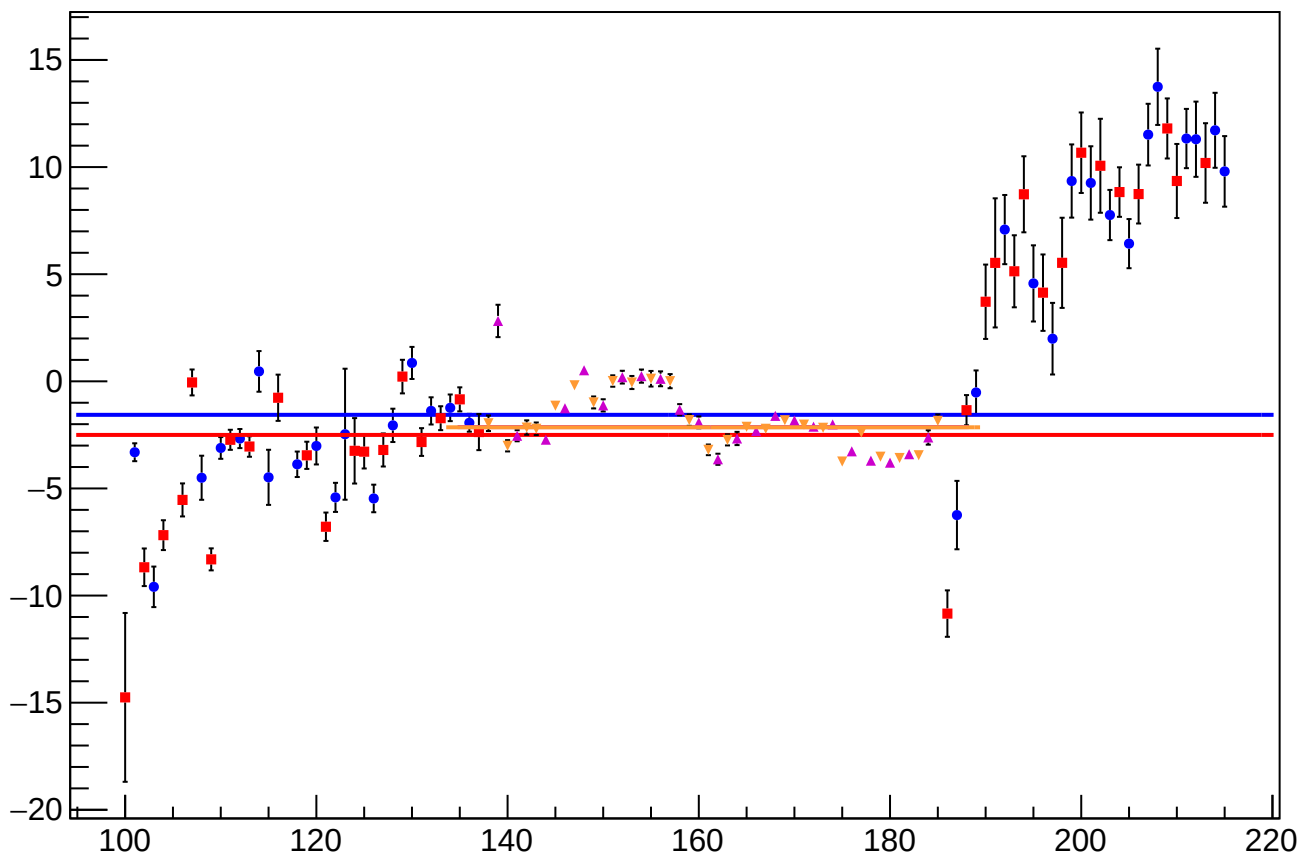
reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.498 ± 0.252 $\chi^2/\text{NDF}: 783.5/14$
 Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$
 Right Out: 5.168 ± 0.261 $\chi^2/\text{NDF}: 1659.9/14$
 Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$
 Right: 4.821 ± 0.181 $\chi^2/\text{NDF}: 2446.8/29$
 In: 2.560 ± 0.058 $\chi^2/\text{NDF}: 1717.2/37$
 Out: 2.700 ± 0.057 $\chi^2/\text{NDF}: 2621.4/39$
 All: 2.631 ± 0.041 $\chi^2/\text{NDF}: 4341.6/77$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.564 ± 0.144 χ^2/NDF : 871.6/31

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -2.502 ± 0.143 χ^2/NDF : 951.2/33

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

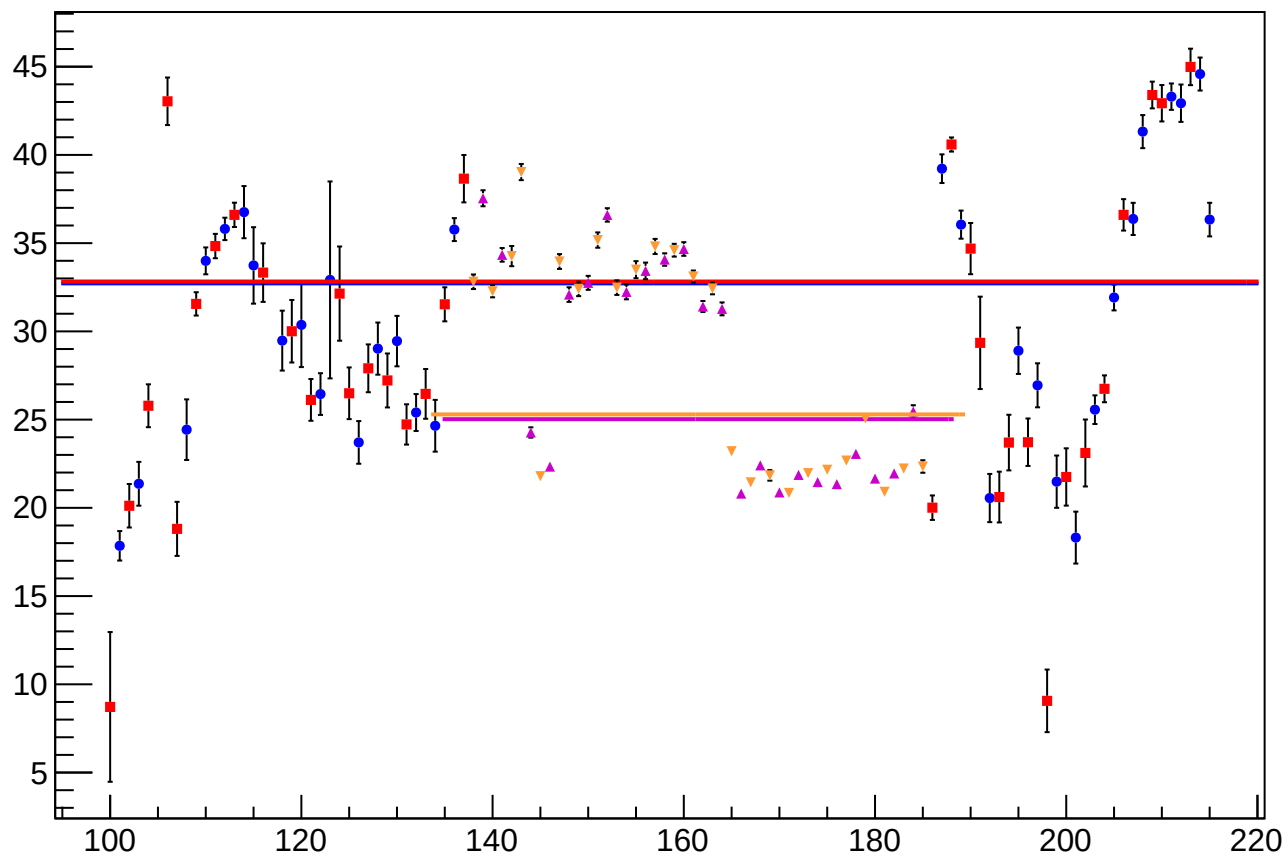
Right: -2.036 ± 0.101 χ^2/NDF : 1844.2/65

In: -2.078 ± 0.046 χ^2/NDF : 1577.1/54

Out: -2.182 ± 0.045 χ^2/NDF : 1530.2/58

All: -2.131 ± 0.032 χ^2/NDF : 3109.8/113

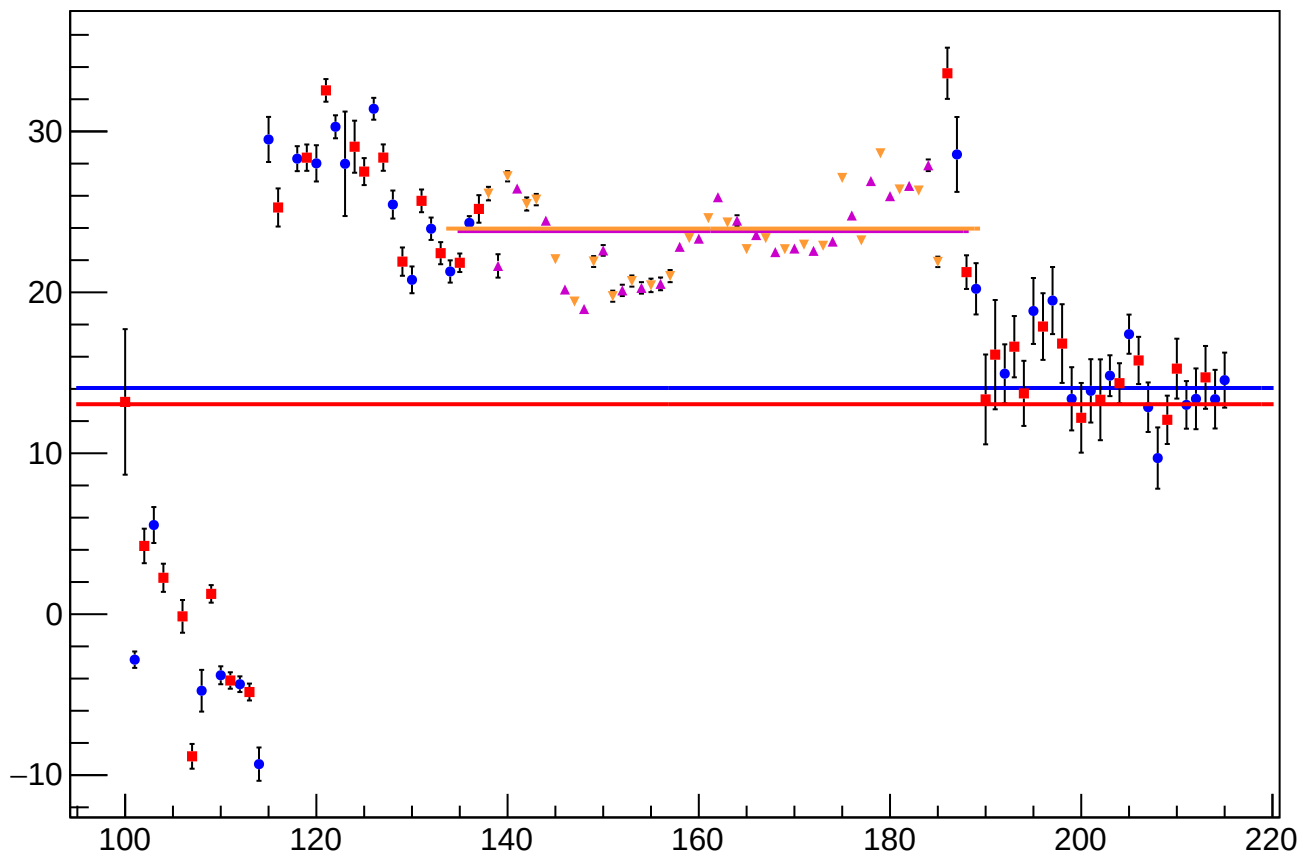
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.721 ± 0.181 $\chi^2/\text{NDF}: 1650.9/31$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 32.825 ± 0.175 $\chi^2/\text{NDF}: 2163.4/33$
 Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$
 Right: 32.775 ± 0.126 $\chi^2/\text{NDF}: 3814.5/65$
 In: 25.775 ± 0.057 $\chi^2/\text{NDF}: 10885.0/54$
 Out: 26.062 ± 0.056 $\chi^2/\text{NDF}: 12101.5/58$
 All: 25.920 ± 0.040 $\chi^2/\text{NDF}: 22999.6/113$

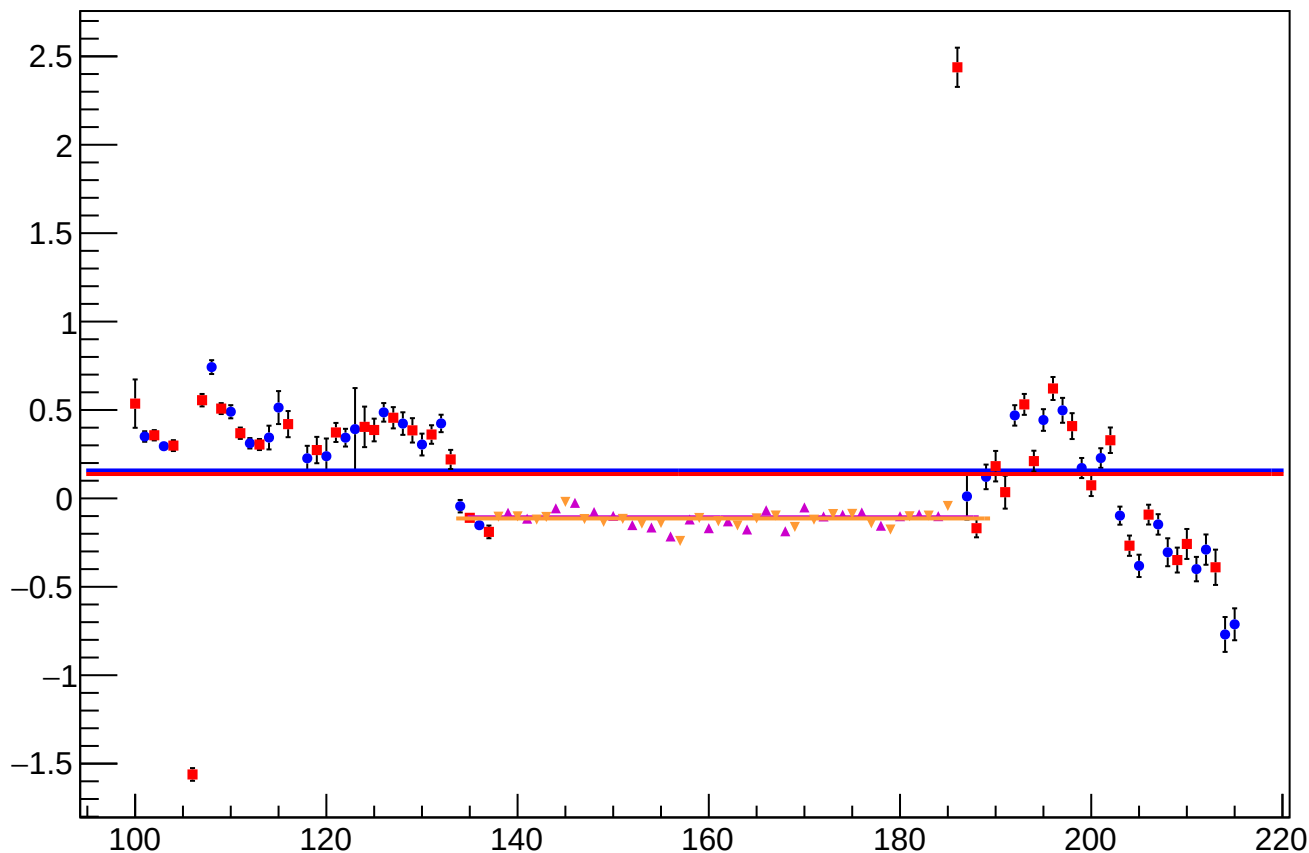
reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.057 $\pm$ 0.161 χ^2 /NDF: 7357.6/31
 Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24
 Right Out: 13.049 $\pm$ 0.162 χ^2 /NDF: 7214.8/33
 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: 13.557 $\pm$ 0.114 χ^2 /NDF: 14591.9/65
 In: 22.817 $\pm$ 0.051 χ^2 /NDF:12418.7/54
 Out: 22.905 $\pm$ 0.051 χ^2 /NDF:13219.9/58
 All: 22.861 $\pm$ 0.036 χ^2 /NDF: 25640.1/113

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.158 ± 0.008 χ^2/NDF : 1382.3/31

Left Out: -0.113 ± 0.002 χ^2/NDF : 291.0/24

Right Out: 0.138 ± 0.008 χ^2/NDF : 3767.5/33

Left In: -0.107 ± 0.002 χ^2/NDF : 321.8/22

Left: -0.110 ± 0.002 χ^2/NDF : 616.6/47

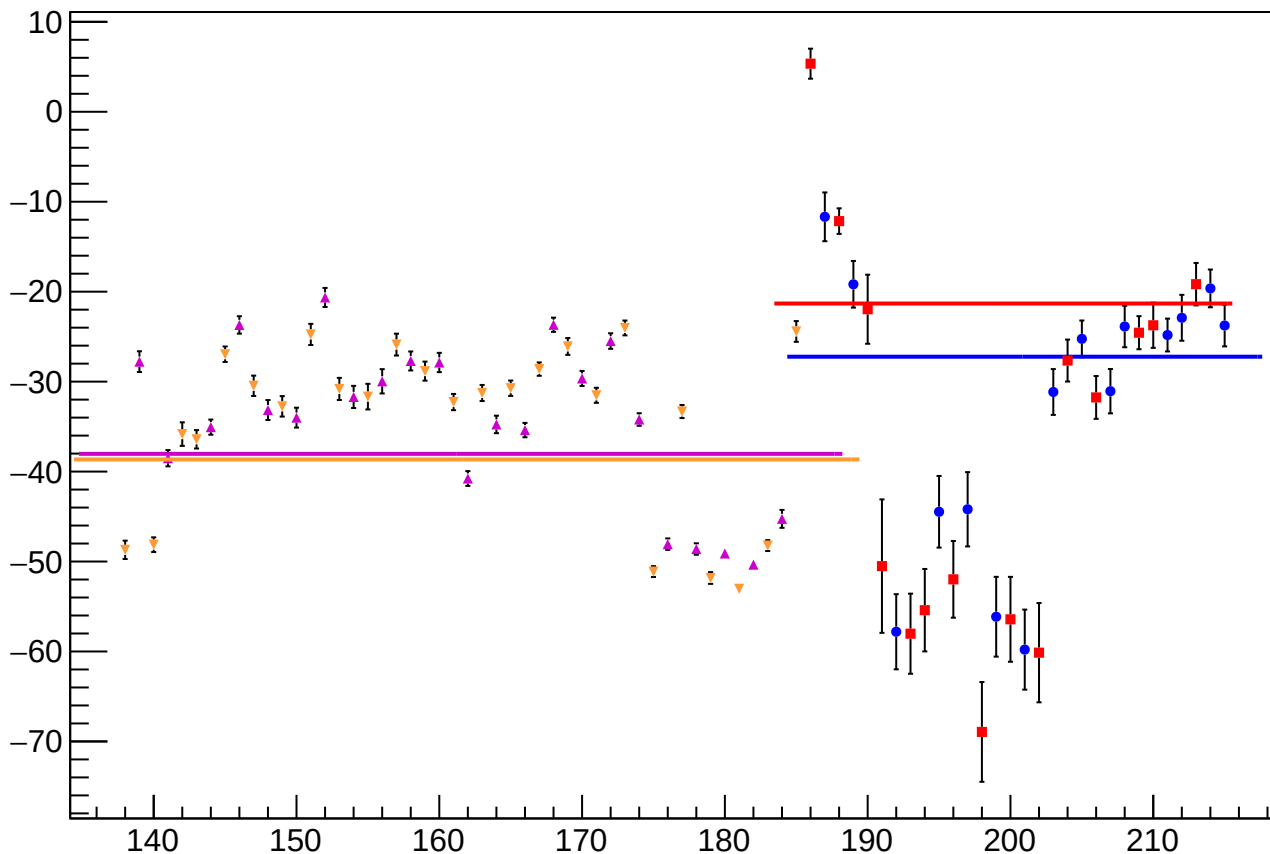
Right: 0.148 ± 0.006 χ^2/NDF : 5152.8/65

In: -0.085 ± 0.002 χ^2/NDF : 2648.6/54

Out: -0.093 ± 0.002 χ^2/NDF : 4929.1/58

All: -0.089 ± 0.002 χ^2/NDF : 7583.7/113

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



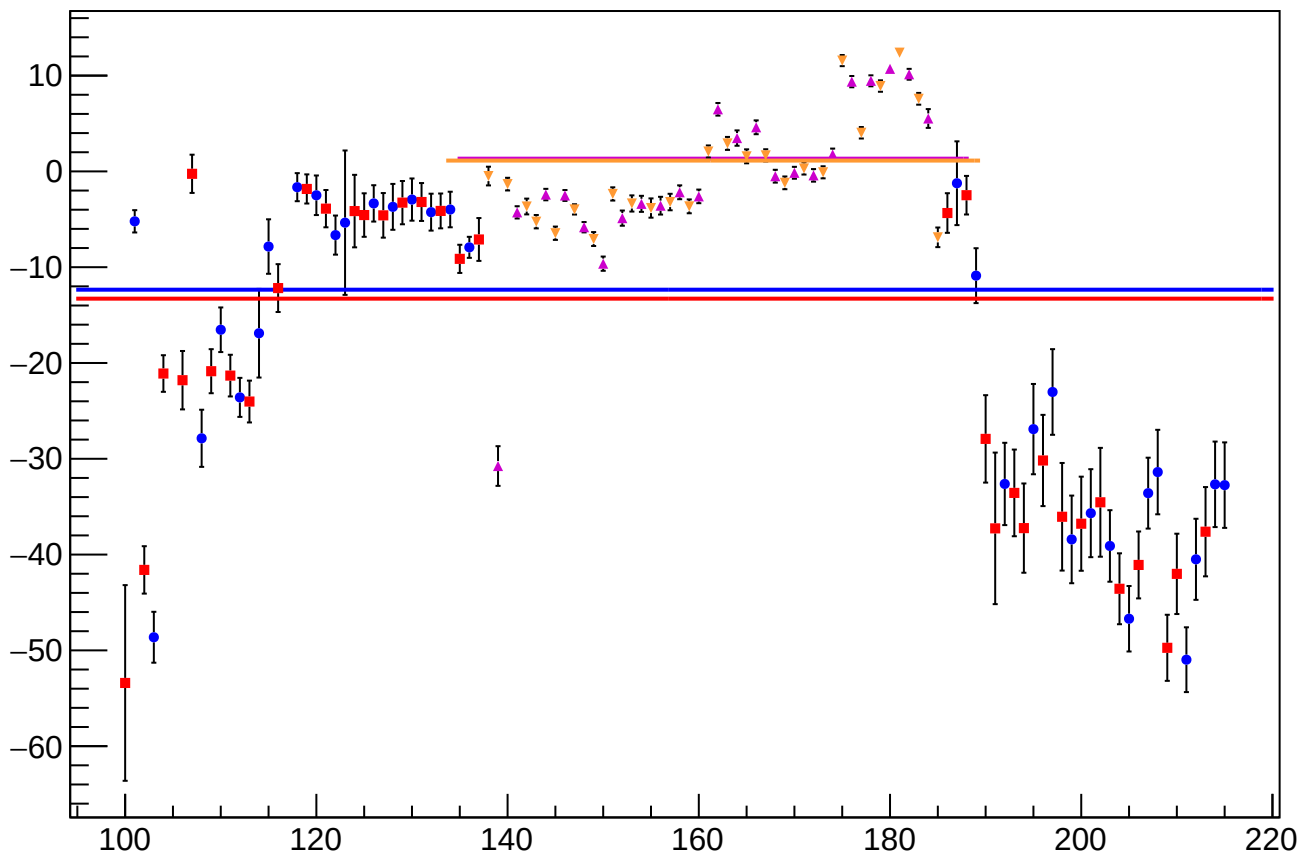
Right In: -27.228 ± 0.677 χ^2/NDF : 255.6/14
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.315 ± 0.675 χ^2/NDF : 697.5/14
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.260 ± 0.478 χ^2/NDF : 991.3/29

In: -37.364 ± 0.168 χ^2/NDF : 3586.1/37
 Out: -37.625 ± 0.164 χ^2/NDF : 5396.0/39

All: -37.498 ± 0.117 χ^2/NDF : 8983.4/77

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.349 ± 0.425 χ^2/NDF : 1003.8/31

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.284 ± 0.436 χ^2/NDF : 959.2/33

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

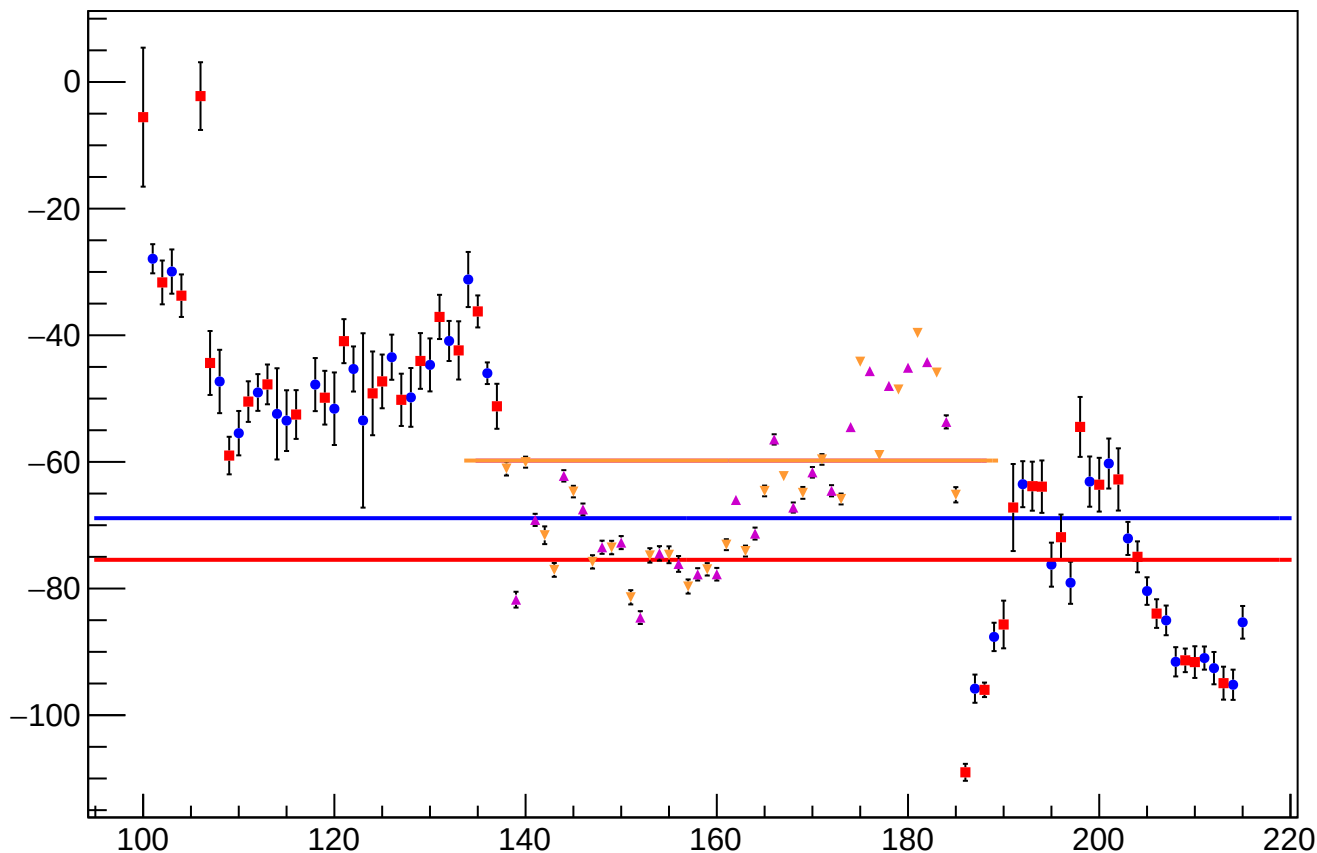
Right: -12.805 ± 0.304 χ^2/NDF : 1965.4/65

In: -0.007 ± 0.133 χ^2/NDF : 3986.6/54

Out: -0.149 ± 0.130 χ^2/NDF : 3755.6/58

All: -0.080 ± 0.093 χ^2/NDF : 7742.8/113

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.887 ± 0.519 χ^2/NDF : 1857.0/31

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -75.463 ± 0.497 χ^2/NDF : 2723.6/33

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

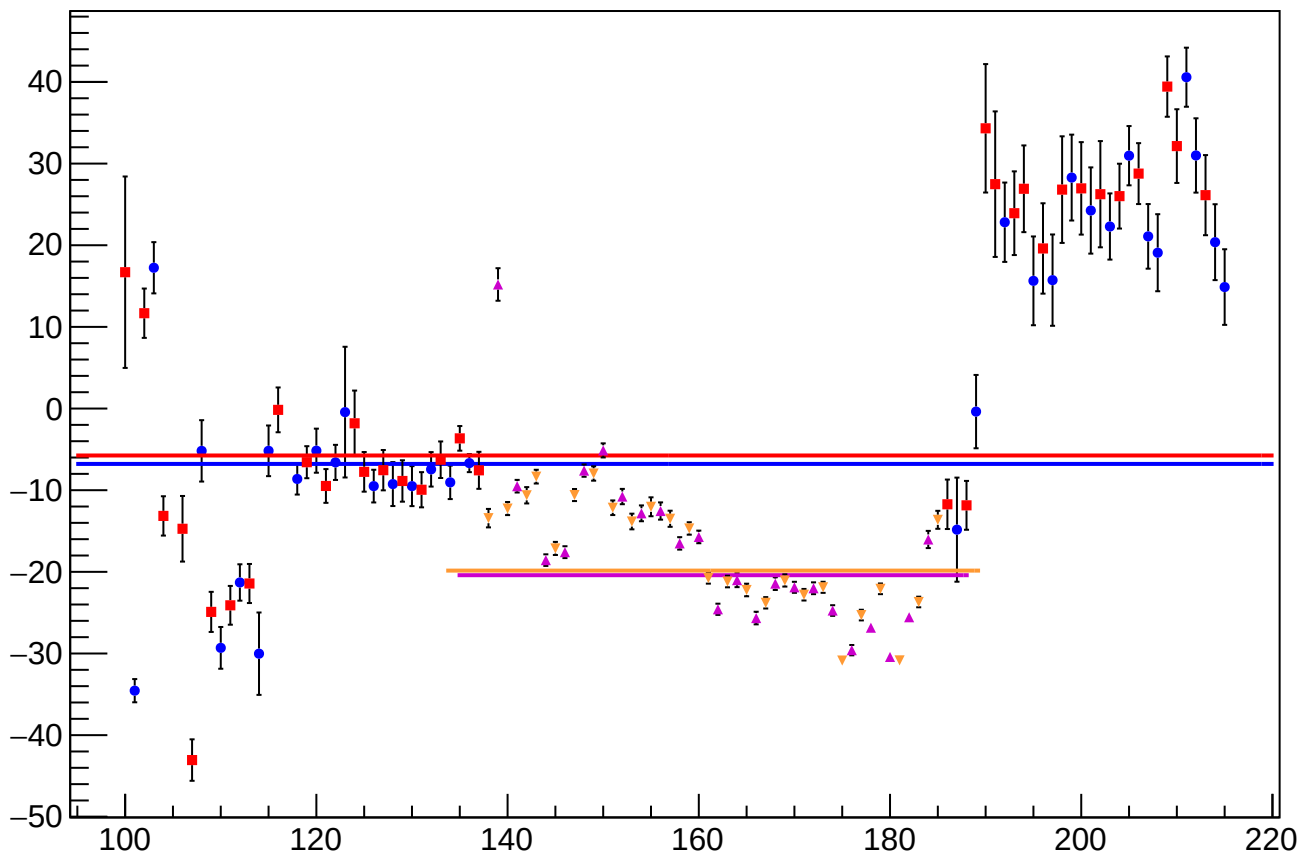
Right: -72.318 ± 0.359 χ^2/NDF : 4664.2/65

In: -60.712 ± 0.164 χ^2/NDF : 7349.8/54

Out: -61.430 ± 0.161 χ^2/NDF : 9450.4/58

All: -61.079 ± 0.115 χ^2/NDF : 16809.9/113

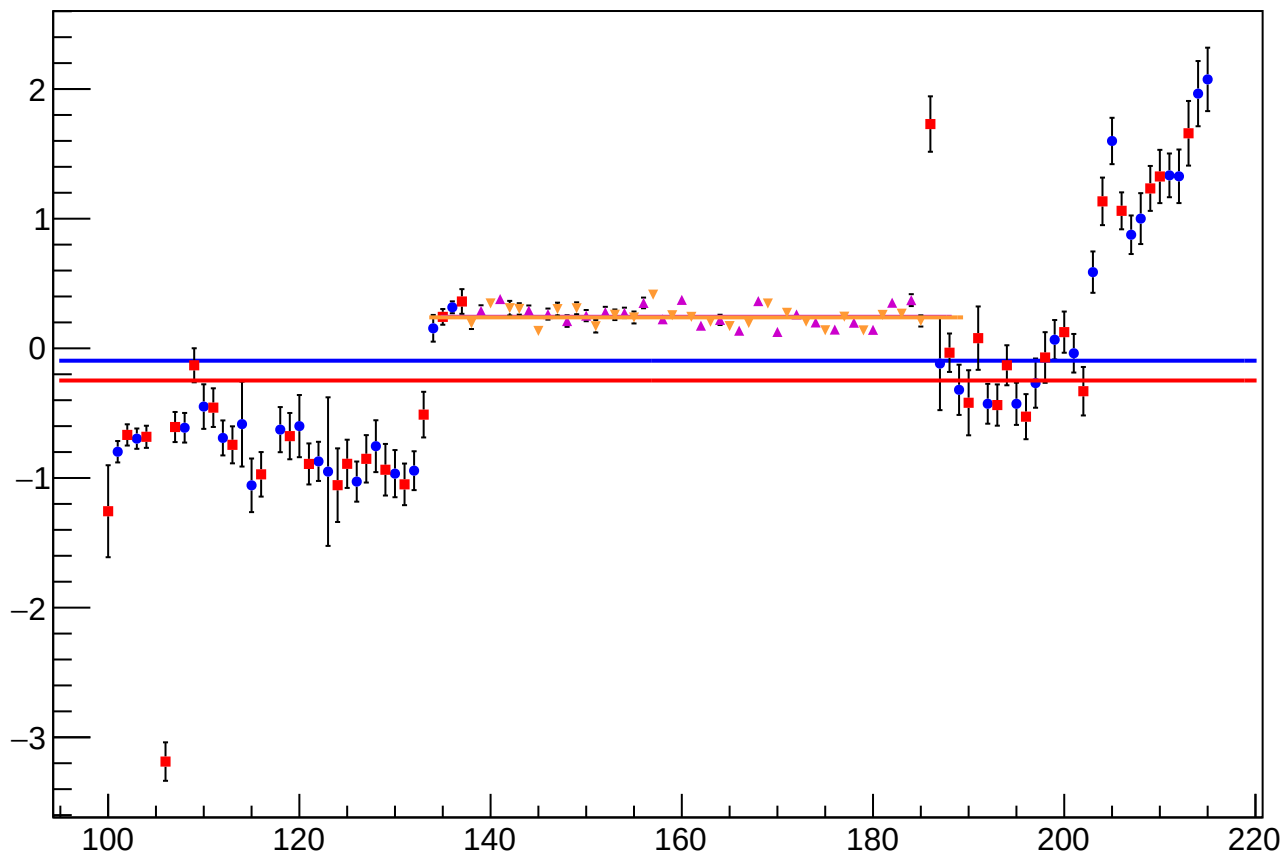
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.782 ± 0.479 $\chi^2/\text{NDF}: 1277.7/31$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -5.749 ± 0.501 $\chi^2/\text{NDF}: 1082.8/33$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -6.289 ± 0.346 $\chi^2/\text{NDF}: 2362.7/65$
 In: -19.092 ± 0.149 $\chi^2/\text{NDF}: 4311.5/54$
 Out: -18.648 ± 0.146 $\chi^2/\text{NDF}: 3738.7/58$
 All: -18.866 ± 0.104 $\chi^2/\text{NDF}: 8054.7/113$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.095 ± 0.024 χ^2/NDF : 889.3/31

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.248 ± 0.024 χ^2/NDF : 1126.3/33

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

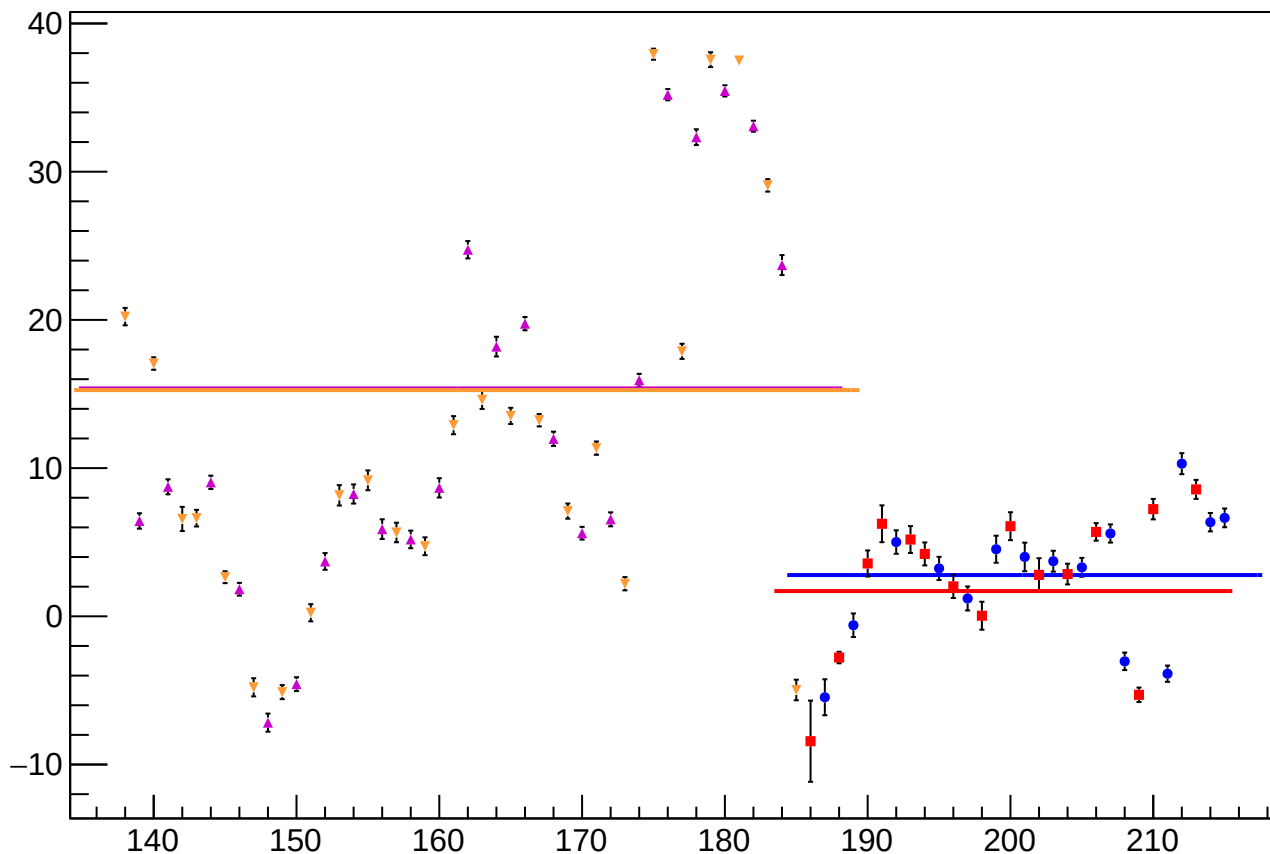
Right: -0.170 ± 0.017 χ^2/NDF : 2035.7/65

In: 0.215 ± 0.007 χ^2/NDF : 1214.3/54

Out: 0.202 ± 0.007 χ^2/NDF : 1587.5/58

All: 0.208 ± 0.005 χ^2/NDF : 2803.7/113

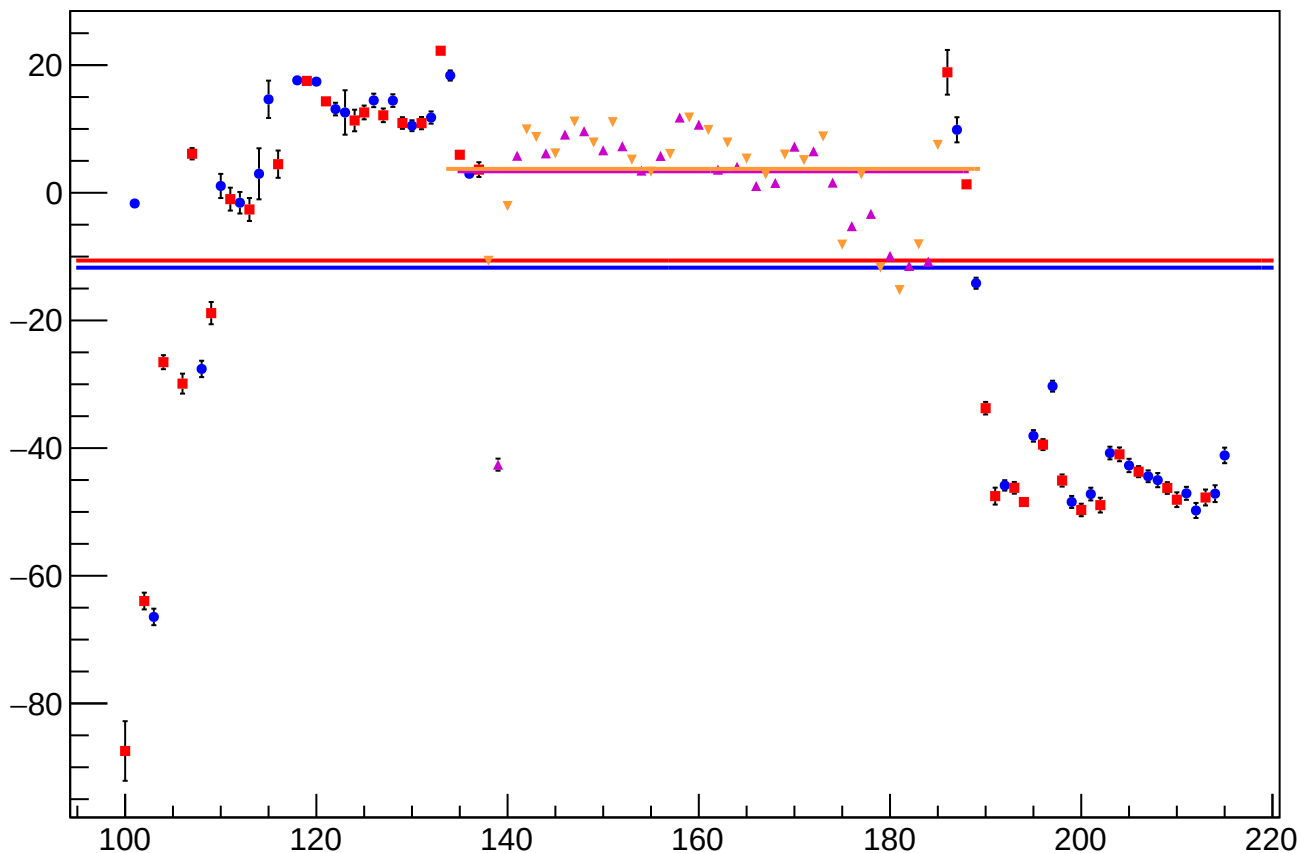
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.784 ± 0.184 $\chi^2/\text{NDF}: 530.9/14$
 Left Out: 15.263 ± 0.100 $\chi^2/\text{NDF}: 19175.2/24$
 Right Out: 1.705 ± 0.183 $\chi^2/\text{NDF}: 647.7/14$
 Left In: 15.377 ± 0.103 $\chi^2/\text{NDF}: 16268.9/22$

Left: 15.318 ± 0.072 $\chi^2/\text{NDF}: 35444.7/47$
 Right: 2.243 ± 0.130 $\chi^2/\text{NDF}: 1196.0/29$
 In: 12.374 ± 0.090 $\chi^2/\text{NDF}: 20381.5/37$
 Out: 12.121 ± 0.088 $\chi^2/\text{NDF}: 24040.9/39$
 All: 12.245 ± 0.063 $\chi^2/\text{NDF}: 44426.4/77$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.731 ± 0.167 $\chi^2/\text{NDF}: 26673.5/31$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -10.614 ± 0.161 $\chi^2/\text{NDF}: 31202.7/33$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

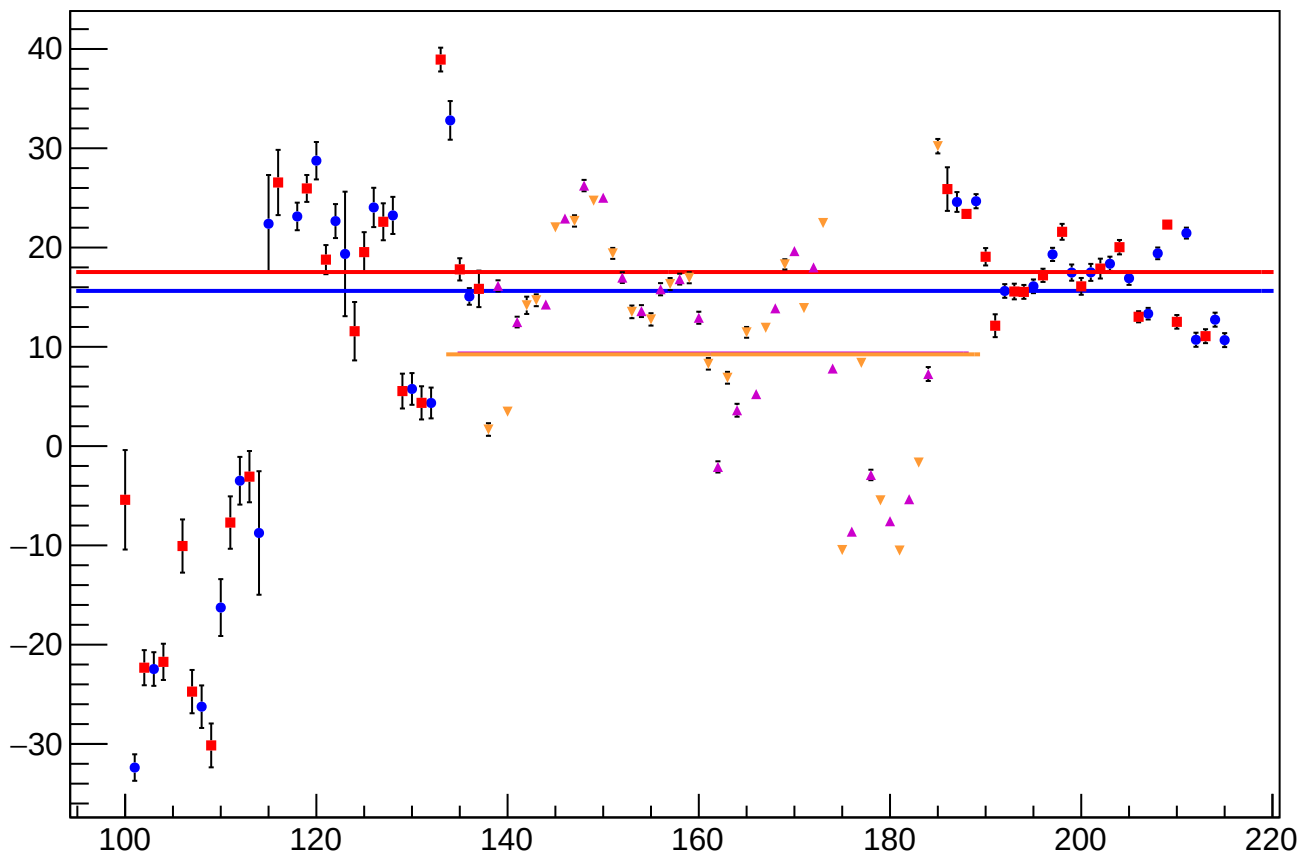
Right: -11.151 ± 0.116 $\chi^2/\text{NDF}: 57899.3/65$

In: 0.490 ± 0.073 $\chi^2/\text{NDF}: 41777.2/54$

Out: 0.979 ± 0.071 $\chi^2/\text{NDF}: 46856.0/58$

All: 0.743 ± 0.051 $\chi^2/\text{NDF}: 88656.3/113$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.632 $\pm$ 0.164 χ^2 /NDF: 3267.5/31

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.533 $\pm$ 0.156 χ^2 /NDF: 3316.0/33

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

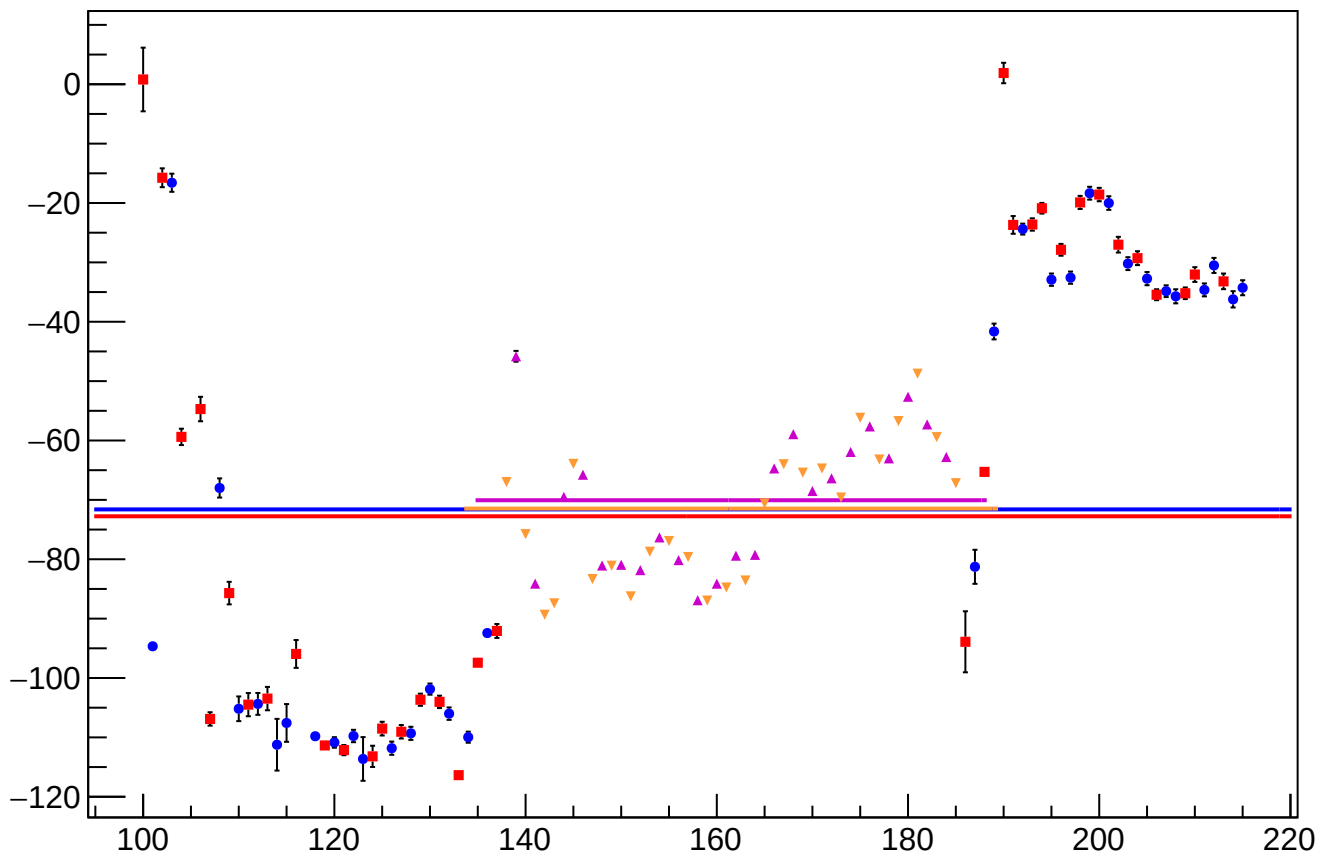
Right: 16.630 $\pm$ 0.113 χ^2 /NDF: 6654.3/65

In: 11.104 $\pm$ 0.087 χ^2 /NDF:16300.3/54

Out: 11.692 $\pm$ 0.085 χ^2 /NDF:18944.4/58

All: 11.406 $\pm$ 0.061 χ^2 /NDF: 35268.2/113

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -71.605 ± 0.192 $\chi^2/\text{NDF}: 36793.3/31$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -72.764 ± 0.188 $\chi^2/\text{NDF}: 43434.1/33$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

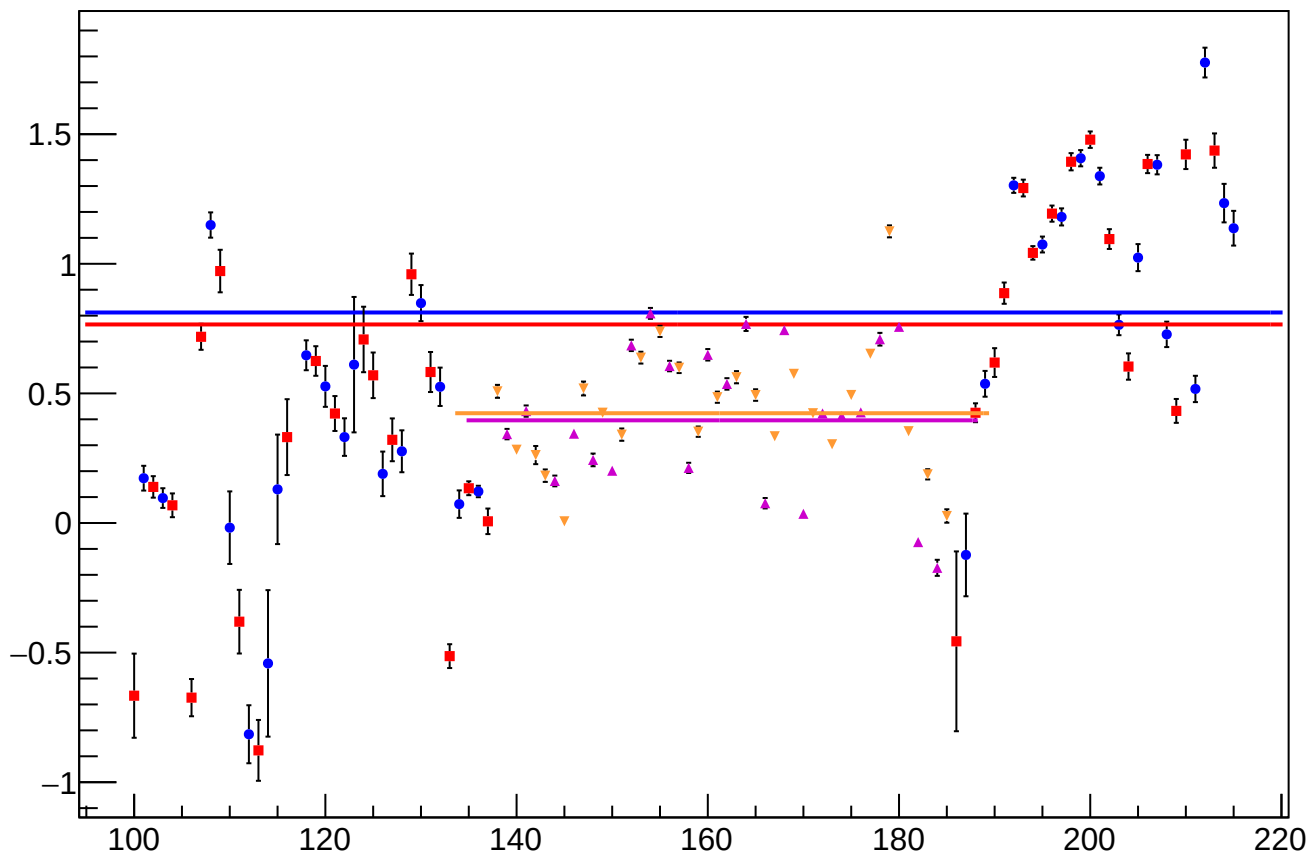
Right: -72.195 ± 0.134 $\chi^2/\text{NDF}: 80246.0/65$

In: -70.349 ± 0.083 $\chi^2/\text{NDF}: 49904.7/54$

Out: -71.704 ± 0.081 $\chi^2/\text{NDF}: 59882.6/58$

All: -71.043 ± 0.058 $\chi^2/\text{NDF}: 109924.8/113$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.812 $\pm$ 0.008 χ^2 /NDF: 4014.6/31

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.766 $\pm$ 0.008 χ^2 /NDF: 5113.1/33

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

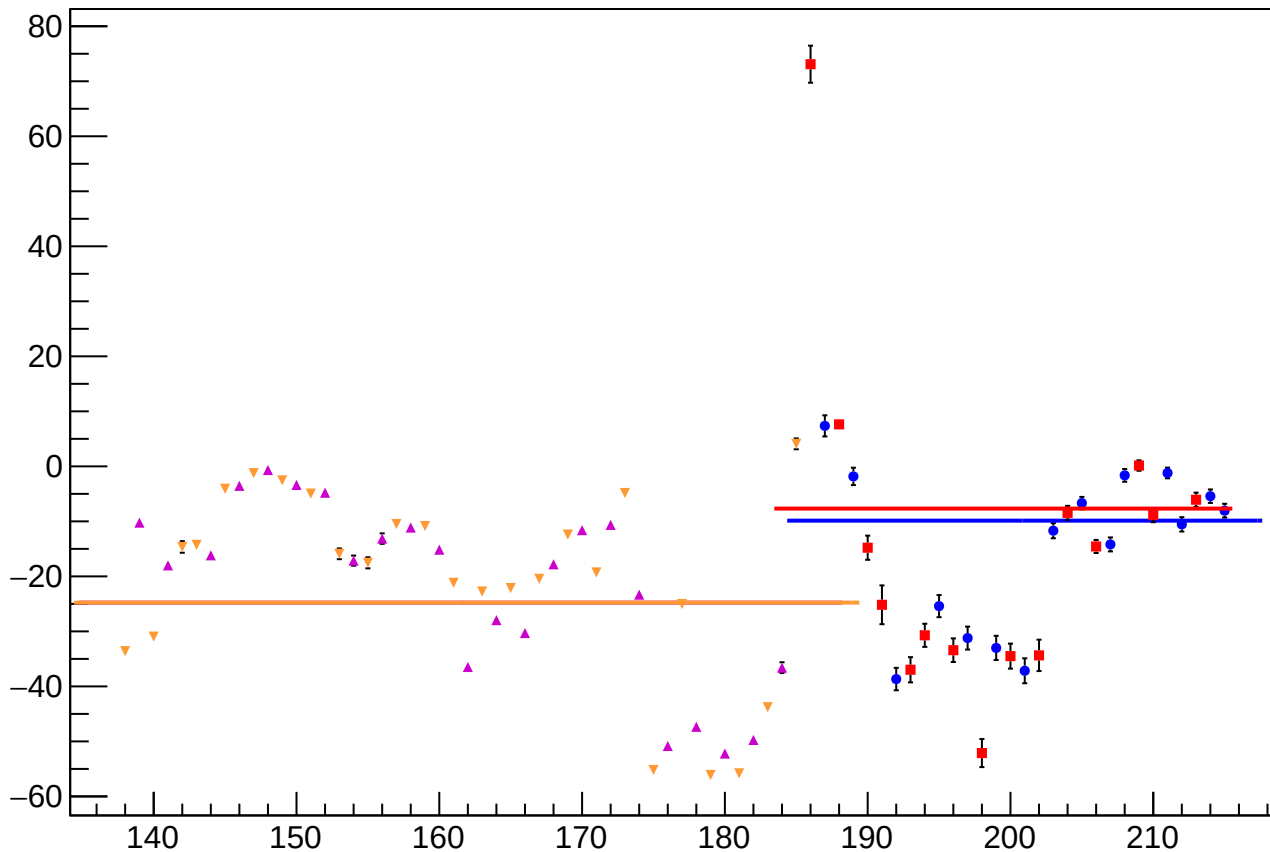
Right: 0.788 $\pm$ 0.006 χ^2 /NDF: 9143.6/65

In: 0.479 $\pm$ 0.004 χ^2 /NDF:10048.2/54

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9435.4/58

All: 0.486 $\pm$ 0.003 χ^2 /NDF: 19492.0/113

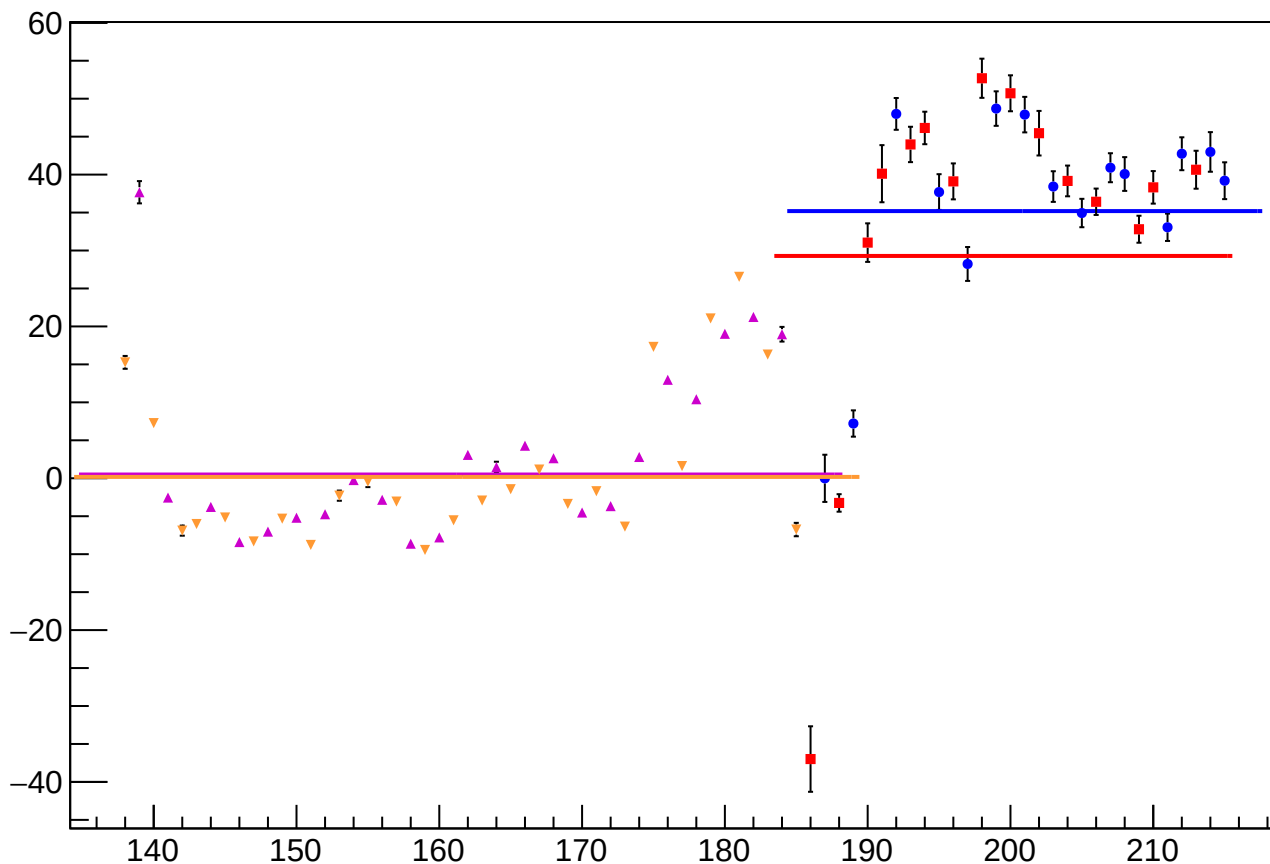
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.872 ± 0.368 χ^2/NDF : 892.2/14
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.675 ± 0.387 χ^2/NDF : 2037.5/14
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -8.830 ± 0.266 χ^2/NDF : 2946.6/29
 In: -22.821 ± 0.133 χ^2/NDF : 17128.4/37
 Out: -22.804 ± 0.131 χ^2/NDF : 22084.7/39
 All: -22.812 ± 0.093 χ^2/NDF : 39213.0/77

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.193 $\pm$ 0.553 χ^2 /NDF: 543.6/14

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 29.286 $\pm$ 0.548 χ^2 /NDF: 1438.0/14

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

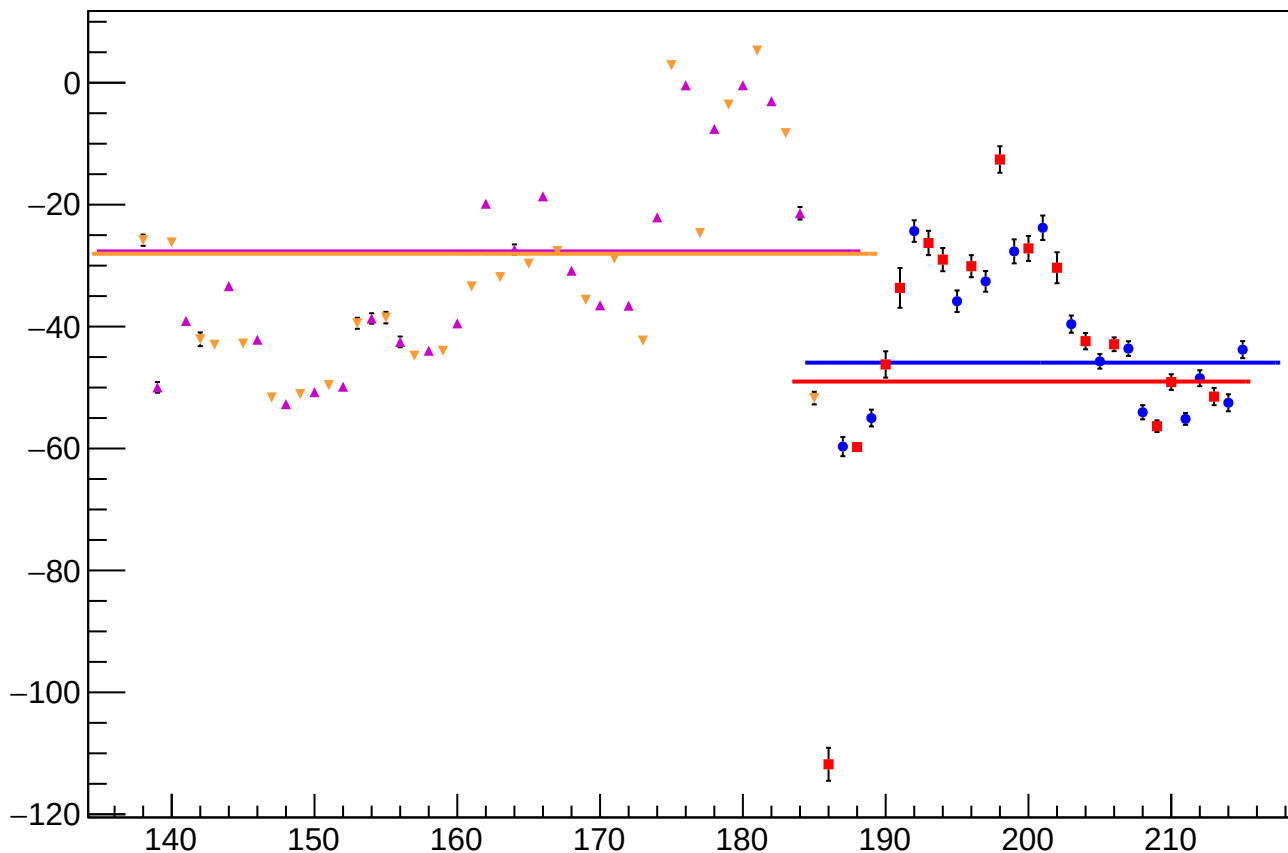
Right: 32.213 $\pm$ 0.389 χ^2 /NDF: 2039.2/29

In: 1.862 $\pm$ 0.110 χ^2 /NDF:10878.3/37

Out: 1.275 $\pm$ 0.106 χ^2 /NDF:12445.9/39

All: 1.559 $\pm$ 0.076 χ^2 /NDF: 23339.0/77

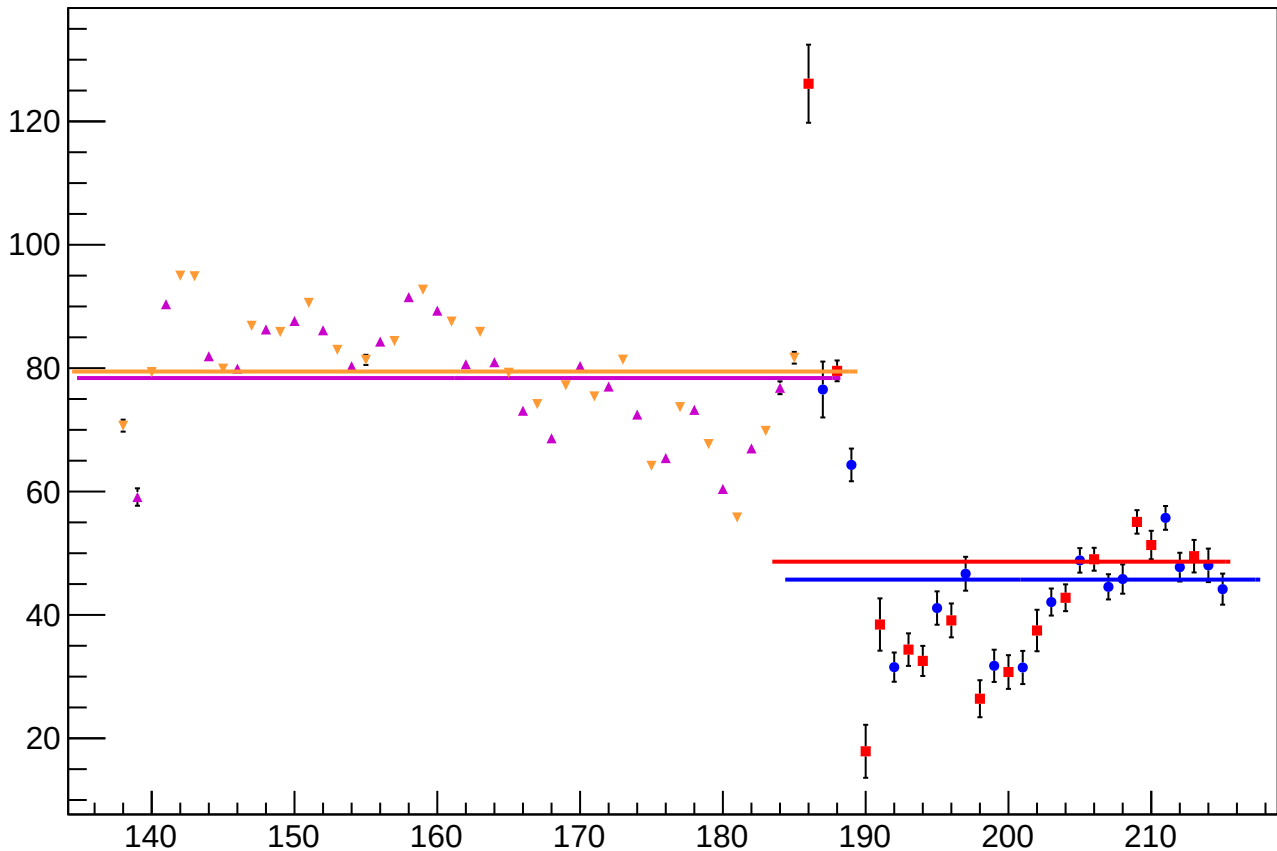
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.915 ± 0.360 $\chi^2/\text{NDF}: 760.0/14$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -49.016 ± 0.358 $\chi^2/\text{NDF}: 1752.2/14$
 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: -47.476 ± 0.254 $\chi^2/\text{NDF}: 2549.5/29$
 In: -30.135 ± 0.132 $\chi^2/\text{NDF}: 17983.2/37$
 Out: -30.831 ± 0.130 $\chi^2/\text{NDF}: 21876.4/39$
 All: -30.489 ± 0.093 $\chi^2/\text{NDF}: 39873.6/77$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.725 $\pm$ 0.626 χ^2 /NDF: 225.4/14

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.632 $\pm$ 0.649 χ^2 /NDF: 756.9/14

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

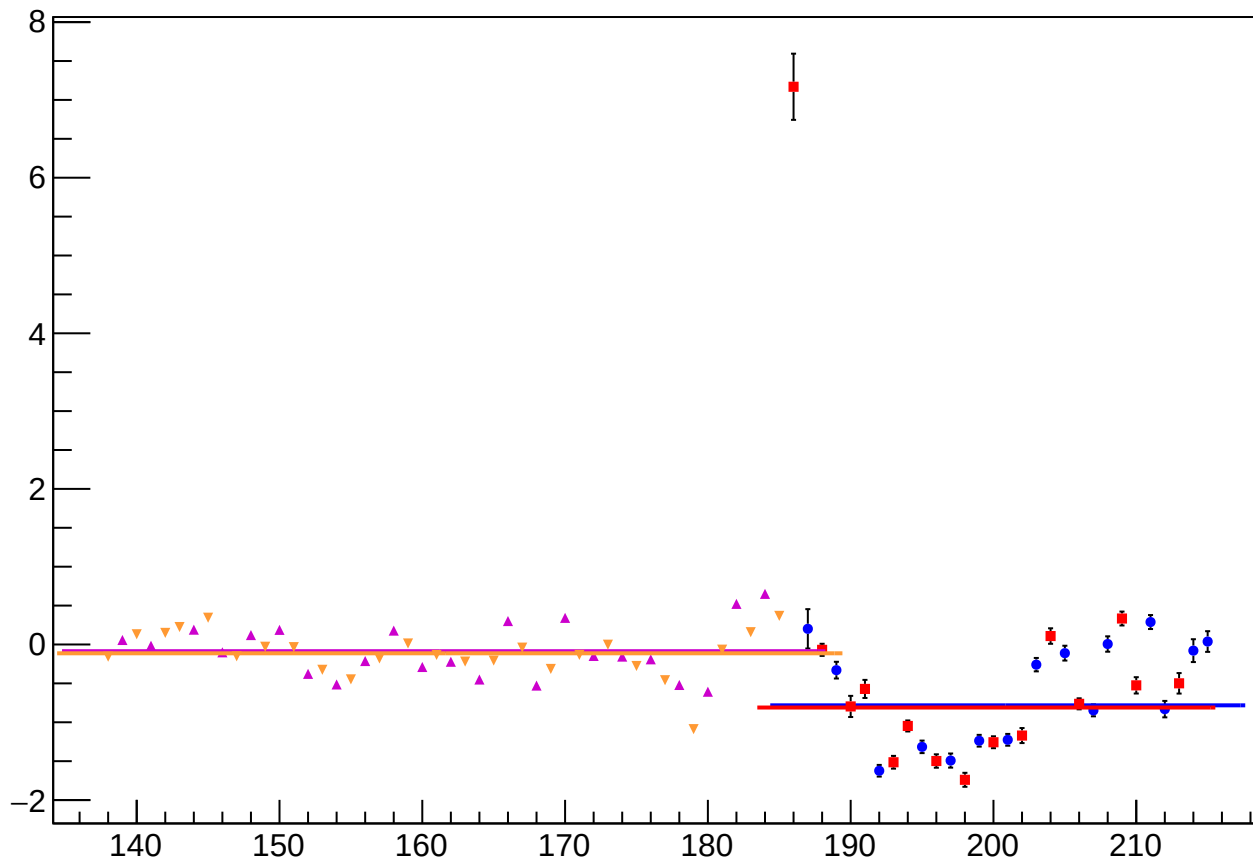
Right: 47.126 $\pm$ 0.451 χ^2 /NDF: 992.7/29

In: 77.111 $\pm$ 0.124 χ^2 /NDF: 7546.0/37

Out: 78.384 $\pm$ 0.121 χ^2 /NDF: 9010.6/39

All: 77.764 $\pm$ 0.087 χ^2 /NDF: 16610.5/77

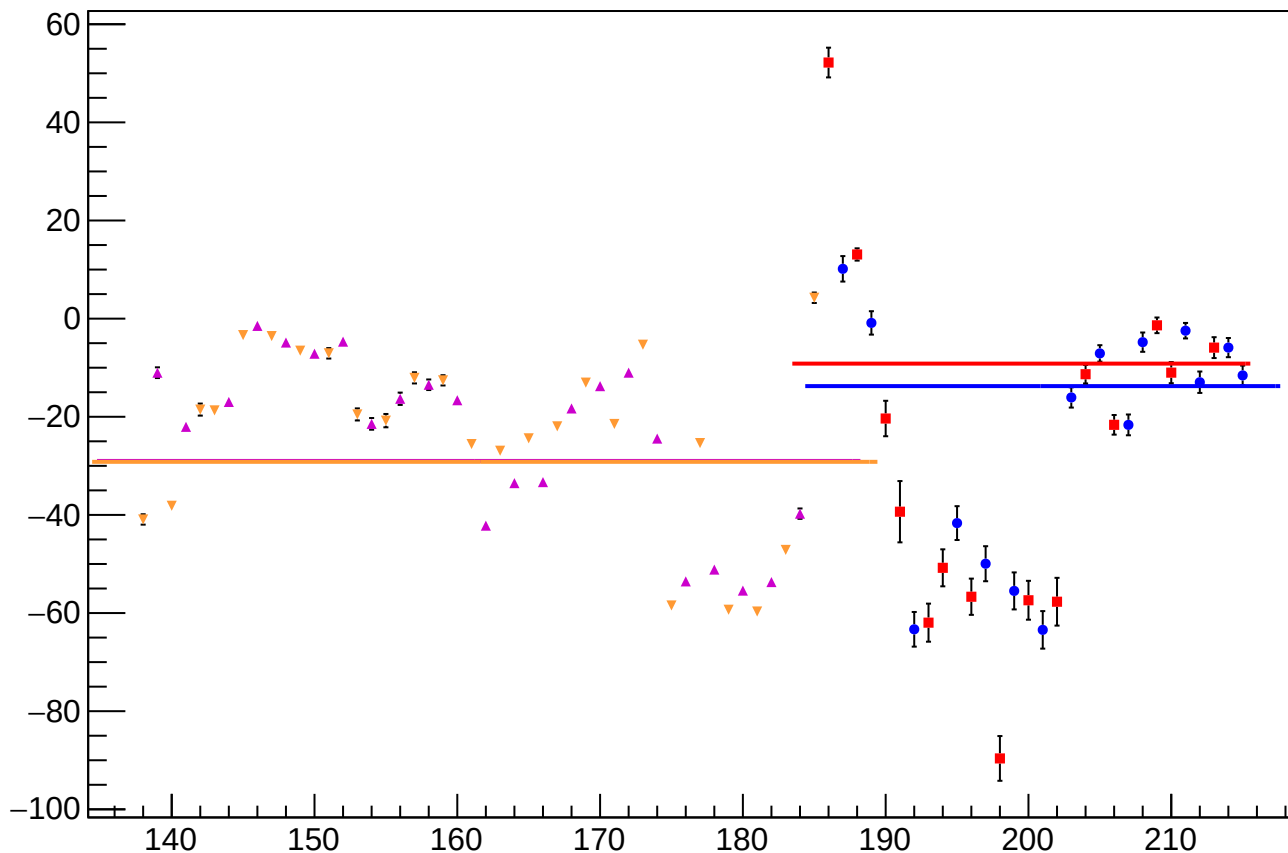
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.782 ± 0.024 χ^2/NDF : 687.9/14
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.810 ± 0.024 χ^2/NDF : 1012.5/14
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.796 ± 0.017 χ^2/NDF : 1701.1/29
 In: -0.125 ± 0.006 χ^2/NDF : 4615.8/37
 Out: -0.151 ± 0.006 χ^2/NDF : 4123.1/39
 All: -0.138 ± 0.004 χ^2/NDF : 8749.9/77

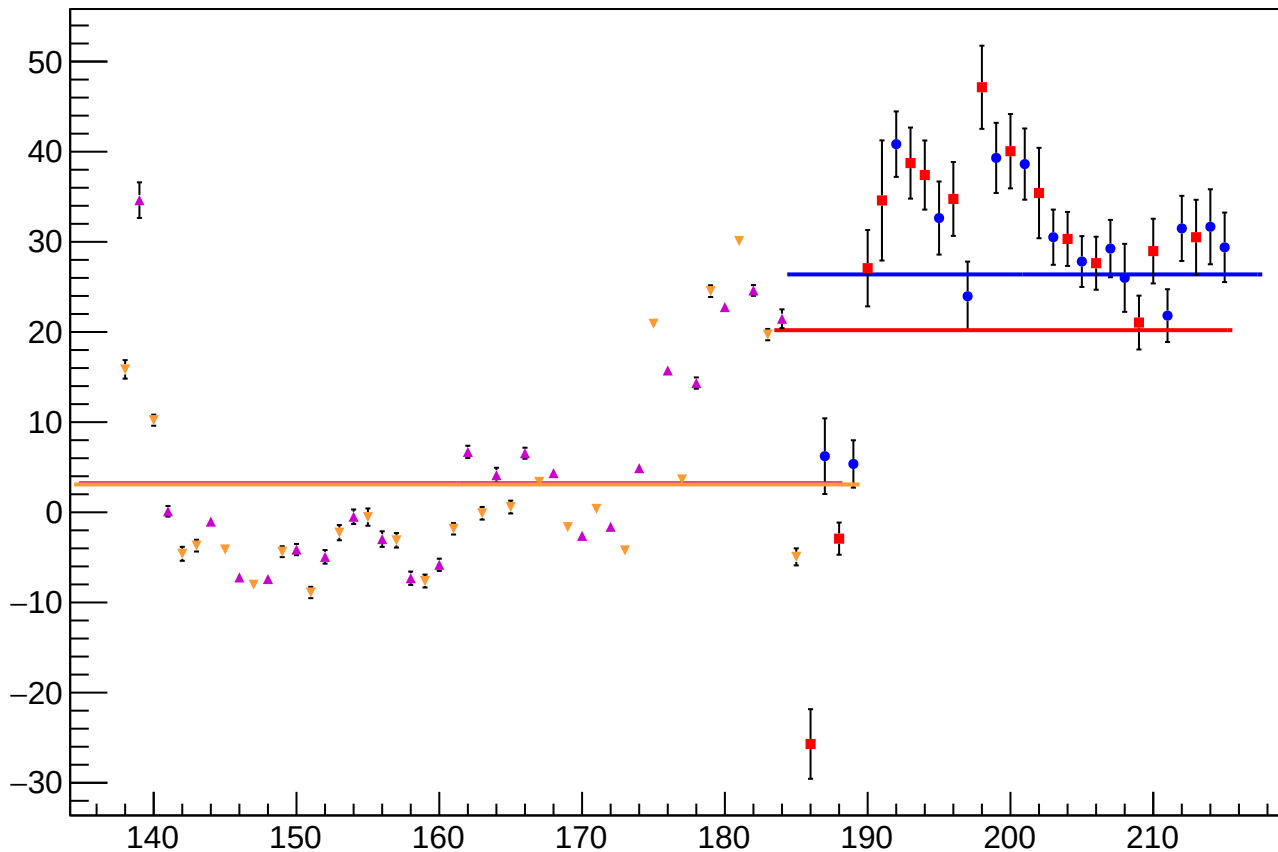
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.749 ± 0.587 $\chi^2/\text{NDF}: 890.6/14$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -9.167 ± 0.623 $\chi^2/\text{NDF}: 1857.3/14$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -11.593 ± 0.427 $\chi^2/\text{NDF}: 2776.6/29$
 In: -27.951 ± 0.154 $\chi^2/\text{NDF}: 14935.5/37$
 Out: -27.988 ± 0.152 $\chi^2/\text{NDF}: 19740.3/39$
 All: -27.970 ± 0.108 $\chi^2/\text{NDF}: 34675.8/77$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.387 ± 0.892 $\chi^2/\text{NDF}: 135.9/14$

Left Out: 3.091 ± 0.124 $\chi^2/\text{NDF}: 8084.1/24$

Right Out: 20.203 ± 0.887 $\chi^2/\text{NDF}: 467.9/14$

Left In: 3.221 ± 0.127 $\chi^2/\text{NDF}: 6237.6/22$

Left: 3.155 ± 0.089 $\chi^2/\text{NDF}: 14322.2/47$

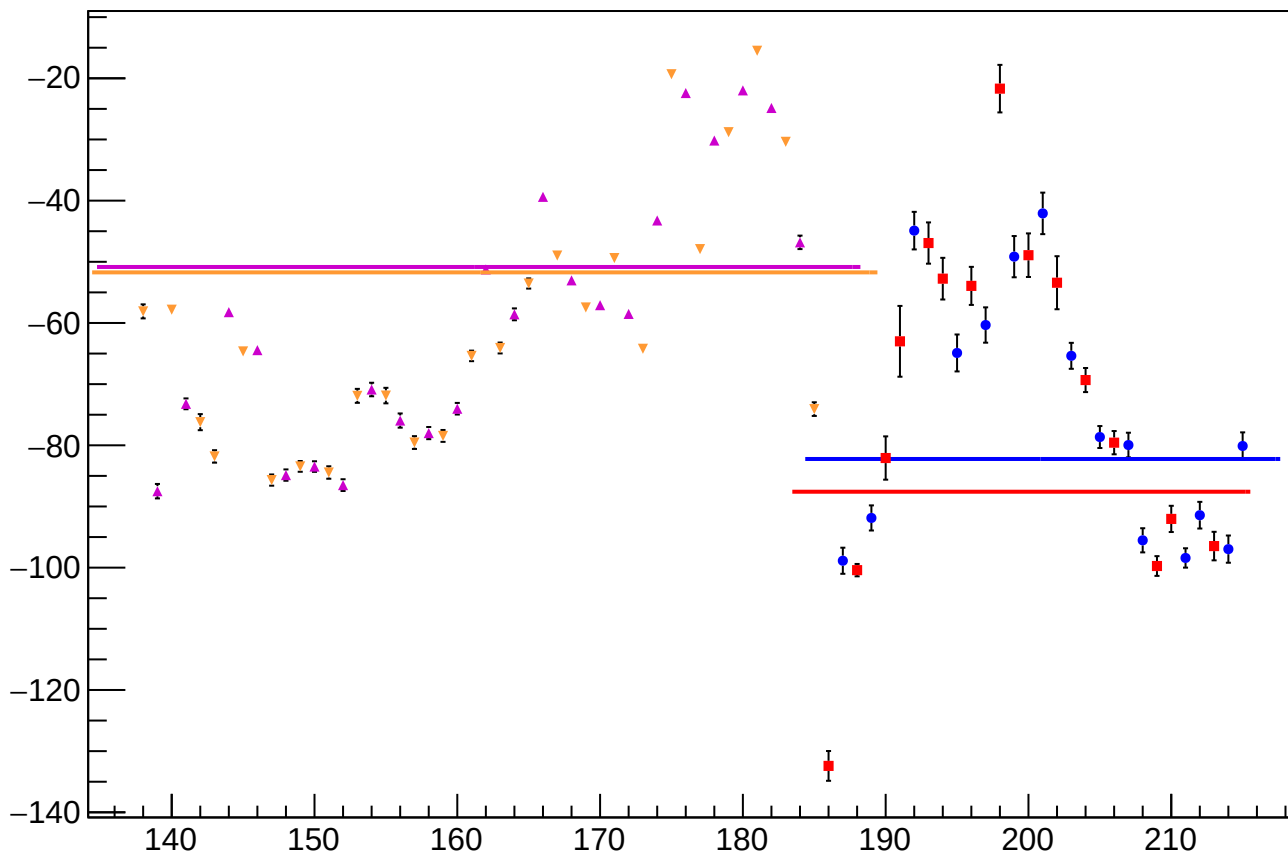
Right: 23.276 ± 0.629 $\chi^2/\text{NDF}: 628.0/29$

In: 3.681 ± 0.126 $\chi^2/\text{NDF}: 7034.3/37$

Out: 3.421 ± 0.123 $\chi^2/\text{NDF}: 8917.1/39$

All: 3.548 ± 0.088 $\chi^2/\text{NDF}: 15953.6/77$

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.236 ± 0.576 χ^2/NDF : 837.9/14

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -87.588 ± 0.572 χ^2/NDF : 1533.6/14

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

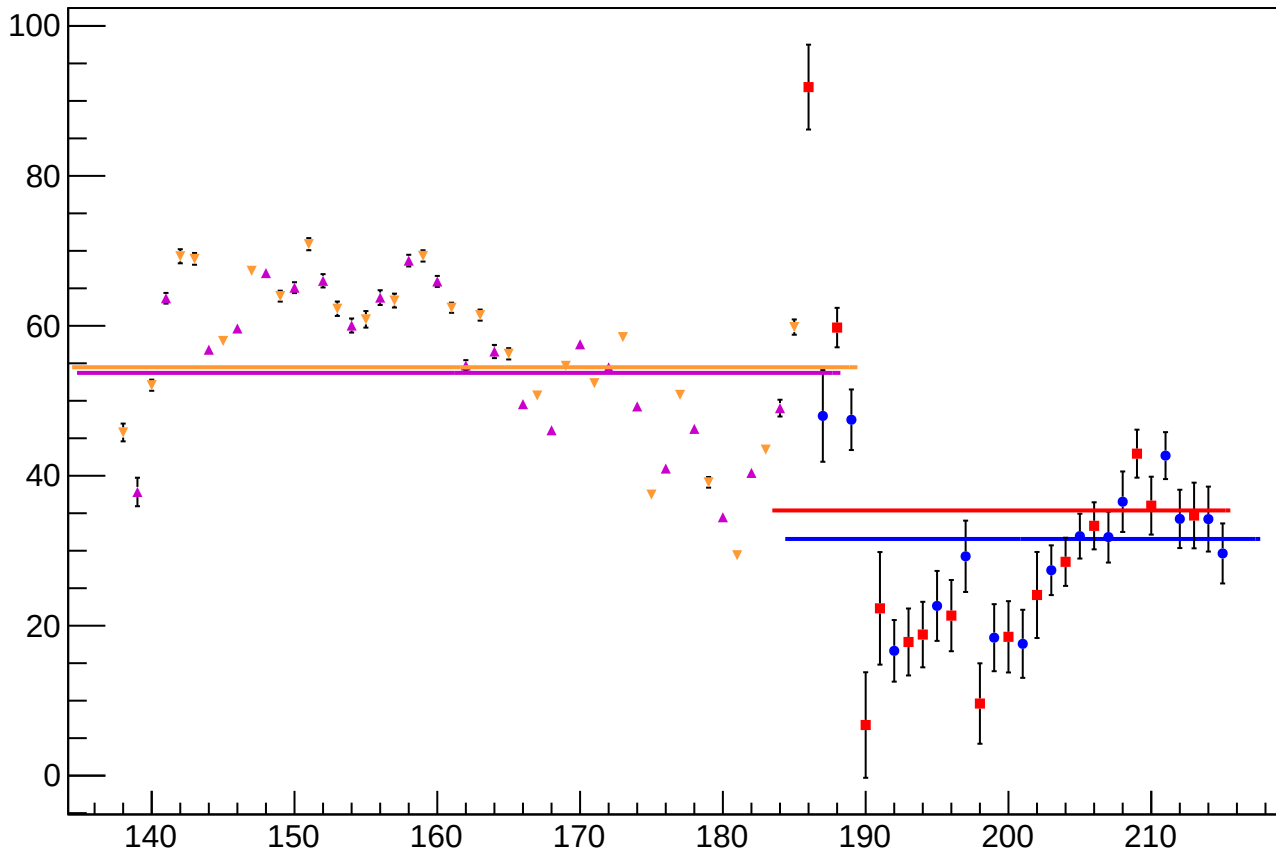
Right: -84.928 ± 0.406 χ^2/NDF : 2415.0/29

In: -53.096 ± 0.154 χ^2/NDF : 20868.0/37

Out: -54.265 ± 0.152 χ^2/NDF : 24718.9/39

All: -53.688 ± 0.108 χ^2/NDF : 45616.0/77

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.570 $\pm$ 1.015 χ^2 /NDF: 74.8/14

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 35.373 $\pm$ 1.063 χ^2 /NDF: 293.7/14

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF:4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

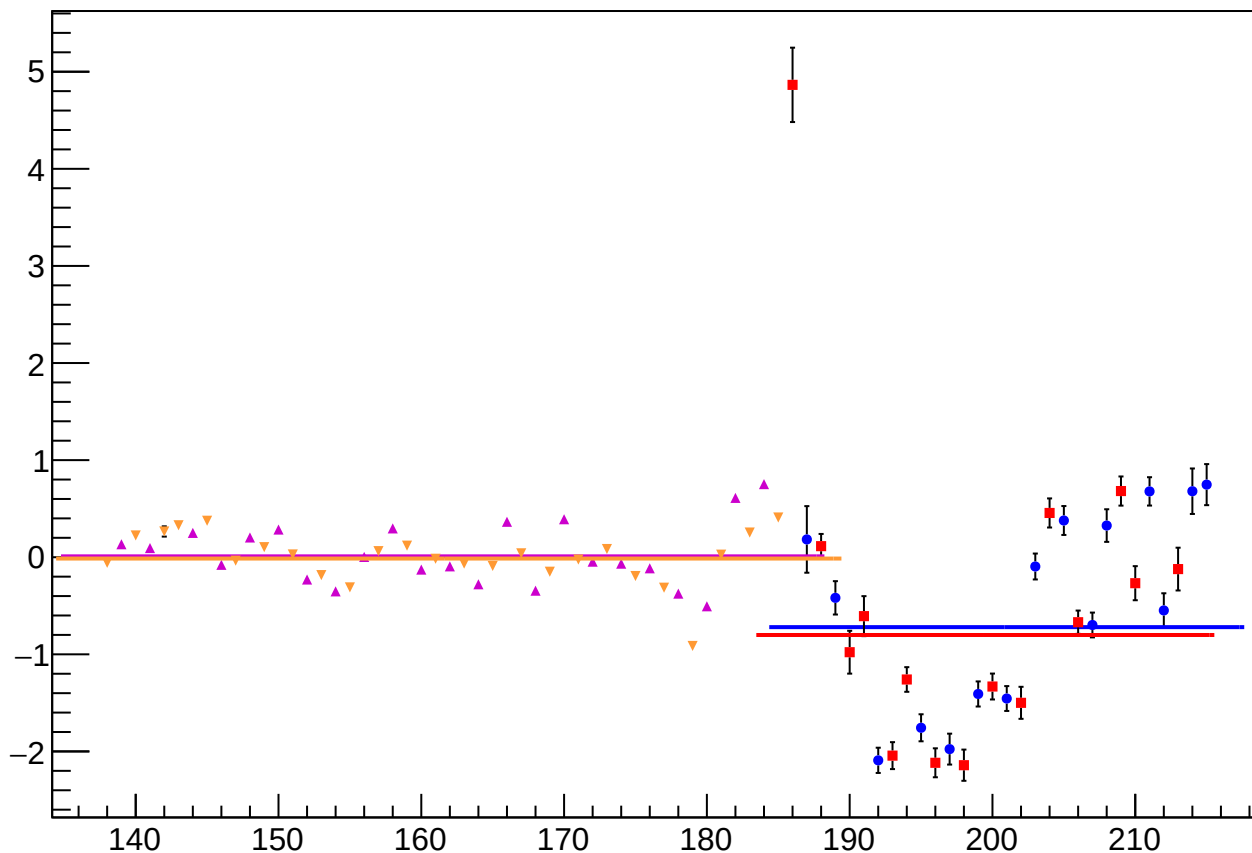
Right: 33.384 $\pm$ 0.734 χ^2 /NDF: 375.1/29

In: 53.292 $\pm$ 0.142 χ^2 /NDF:5127.3/37

Out: 54.149 $\pm$ 0.139 χ^2 /NDF:6878.0/39

All: 53.729 $\pm$ 0.099 χ^2 /NDF: 12023.9/77

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.720 ± 0.040 χ^2/NDF : 592.3/14

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.801 ± 0.040 χ^2/NDF : 735.6/14

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

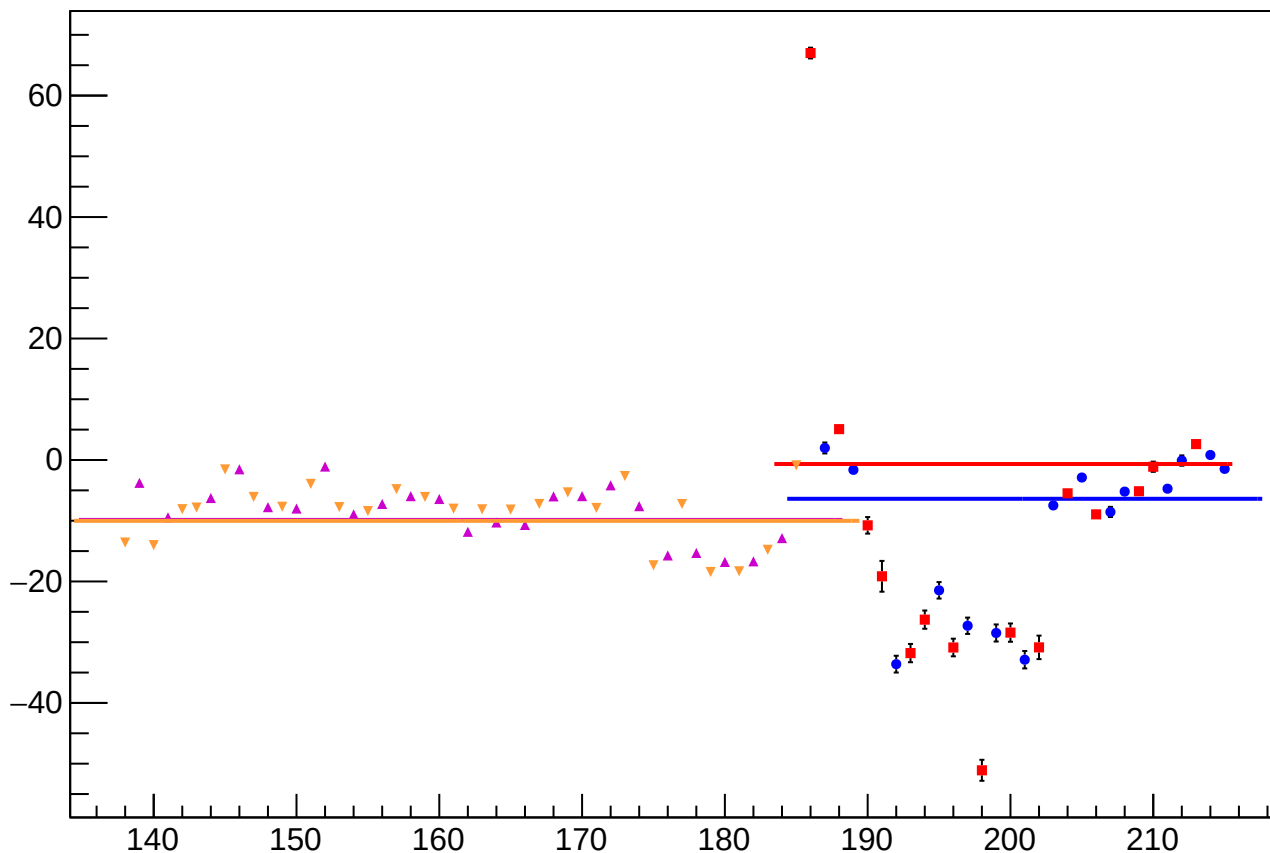
Right: -0.760 ± 0.028 χ^2/NDF : 1330.0/29

In: -0.010 ± 0.006 χ^2/NDF : 3139.4/37

Out: -0.033 ± 0.006 χ^2/NDF : 2762.9/39

All: -0.022 ± 0.005 χ^2/NDF : 5908.8/77

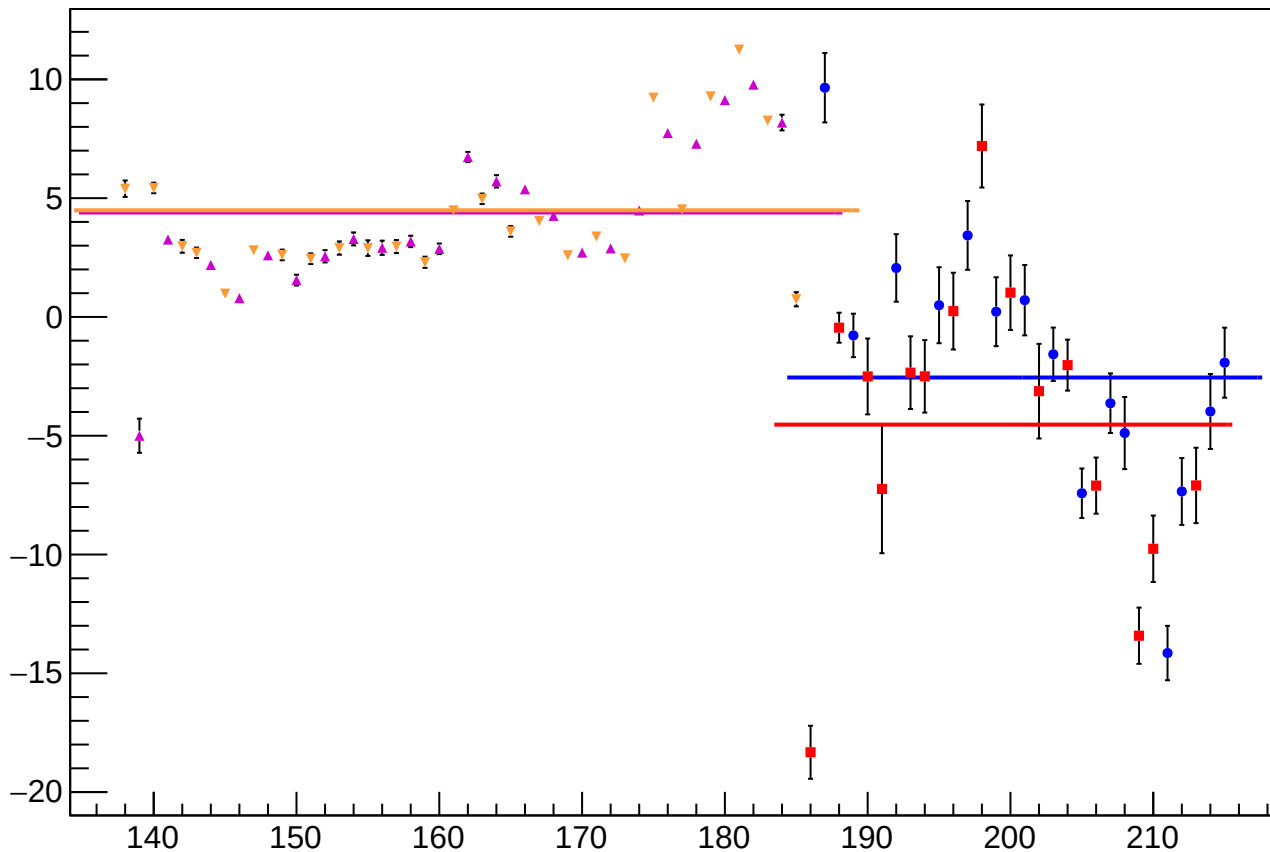
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.388 ± 0.222 $\chi^2/\text{NDF}: 1702.3/14$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.662 ± 0.232 $\chi^2/\text{NDF}: 8933.3/14$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -3.648 ± 0.160 $\chi^2/\text{NDF}: 10954.0/29$
 In: -9.689 ± 0.050 $\chi^2/\text{NDF}: 11280.5/37$
 Out: -9.590 ± 0.049 $\chi^2/\text{NDF}: 23041.1/39$
 All: -9.639 ± 0.035 $\chi^2/\text{NDF}: 34323.5/77$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.549 ± 0.336 χ^2/NDF : 254.2/14

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.532 ± 0.328 χ^2/NDF : 350.9/14

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

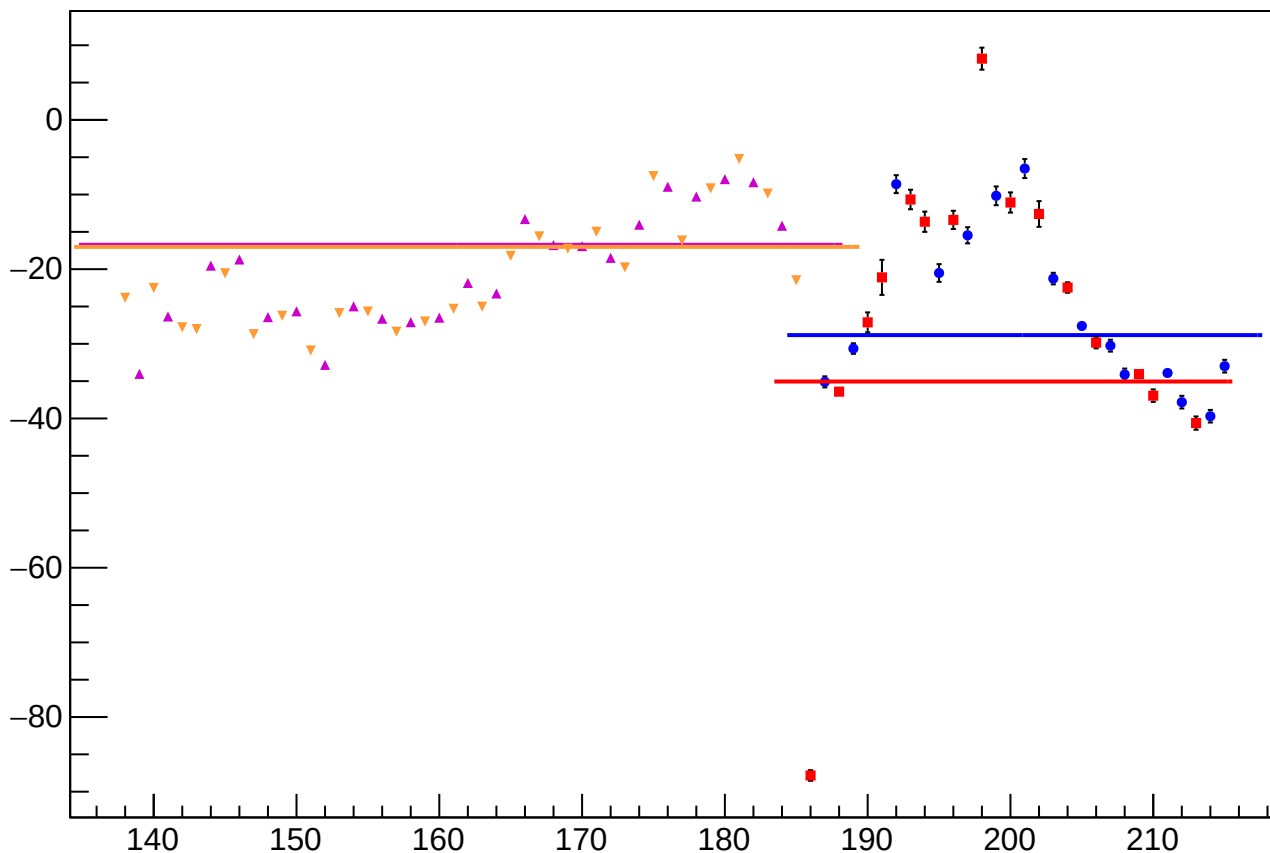
Right: -3.563 ± 0.235 χ^2/NDF : 622.9/29

In: 4.293 ± 0.041 χ^2/NDF : 4906.1/37

Out: 4.352 ± 0.040 χ^2/NDF : 5926.9/39

All: 4.323 ± 0.029 χ^2/NDF : 10834.1/77

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.832 ± 0.217 $\chi^2/\text{NDF}: 1605.0/14$

Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$

Right Out: -35.049 ± 0.211 $\chi^2/\text{NDF}: 8266.8/14$

Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

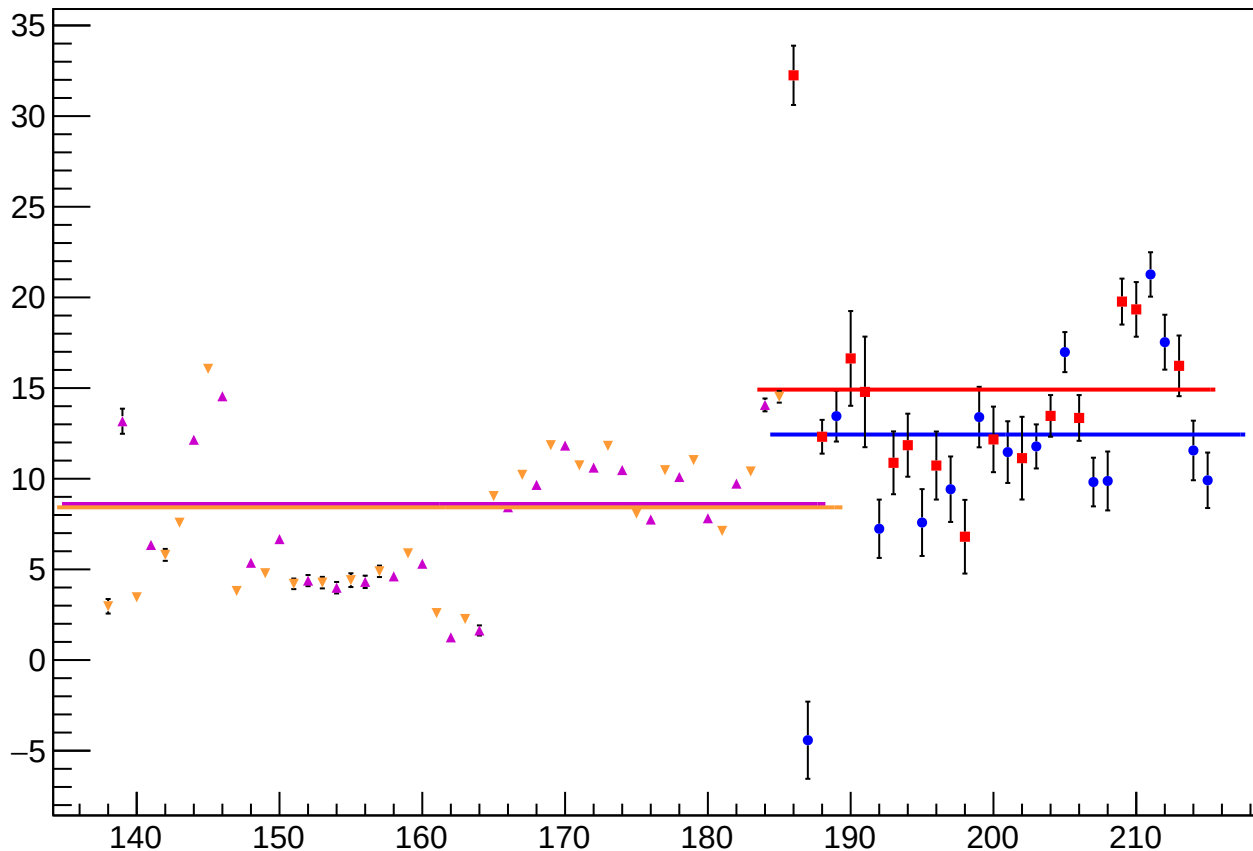
Right: -32.029 ± 0.151 $\chi^2/\text{NDF}: 10293.5/29$

In: -17.377 ± 0.050 $\chi^2/\text{NDF}: 23322.0/37$

Out: -18.007 ± 0.050 $\chi^2/\text{NDF}: 37267.8/39$

All: -17.695 ± 0.035 $\chi^2/\text{NDF}: 60669.5/77$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.438 $\pm$ 0.385 χ^2 /NDF: 173.9/14

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 14.916 $\pm$ 0.399 χ^2 /NDF: 182.1/14

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

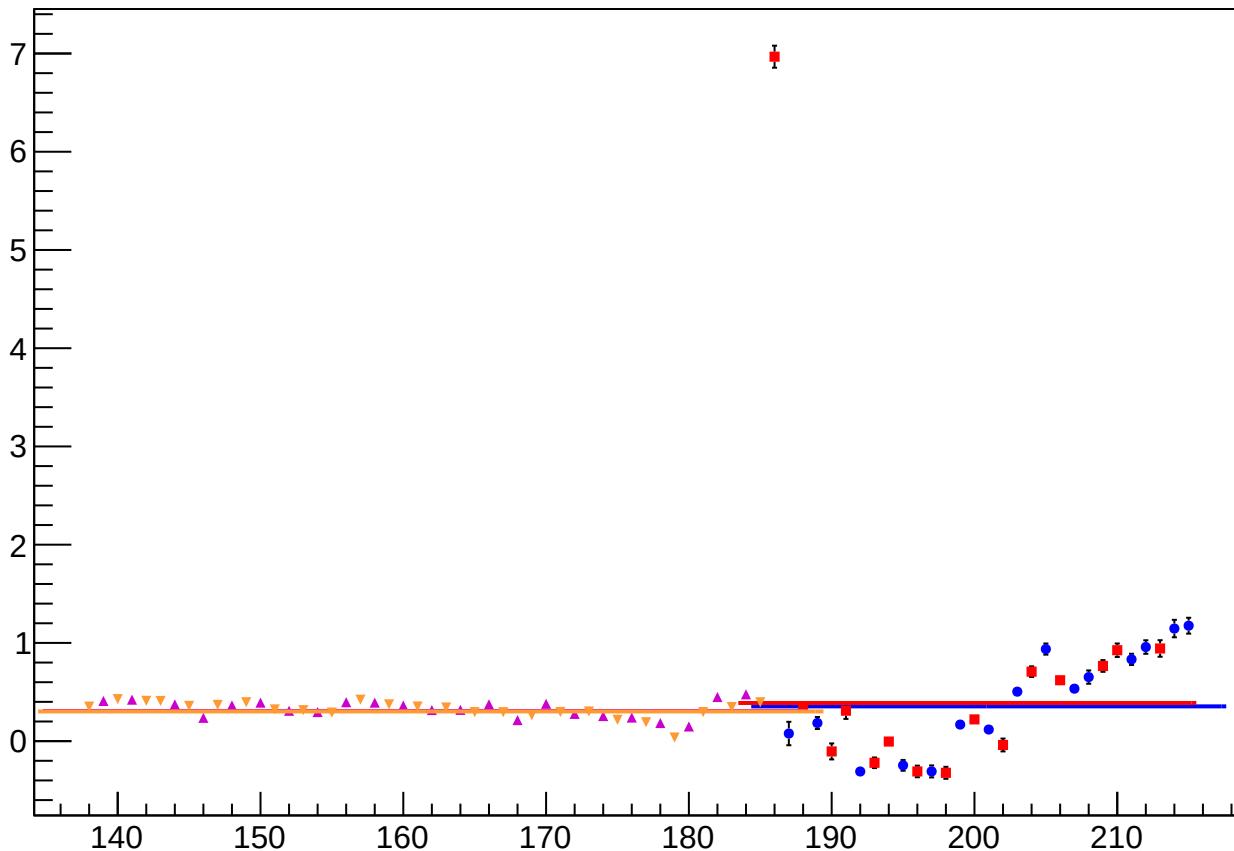
Right: 13.631 $\pm$ 0.277 χ^2 /NDF: 376.0/29

In: 8.661 $\pm$ 0.046 χ^2 /NDF: 5775.9/37

Out: 8.505 $\pm$ 0.045 χ^2 /NDF: 6913.4/39

All: 8.582 $\pm$ 0.032 χ^2 /NDF: 12695.2/77

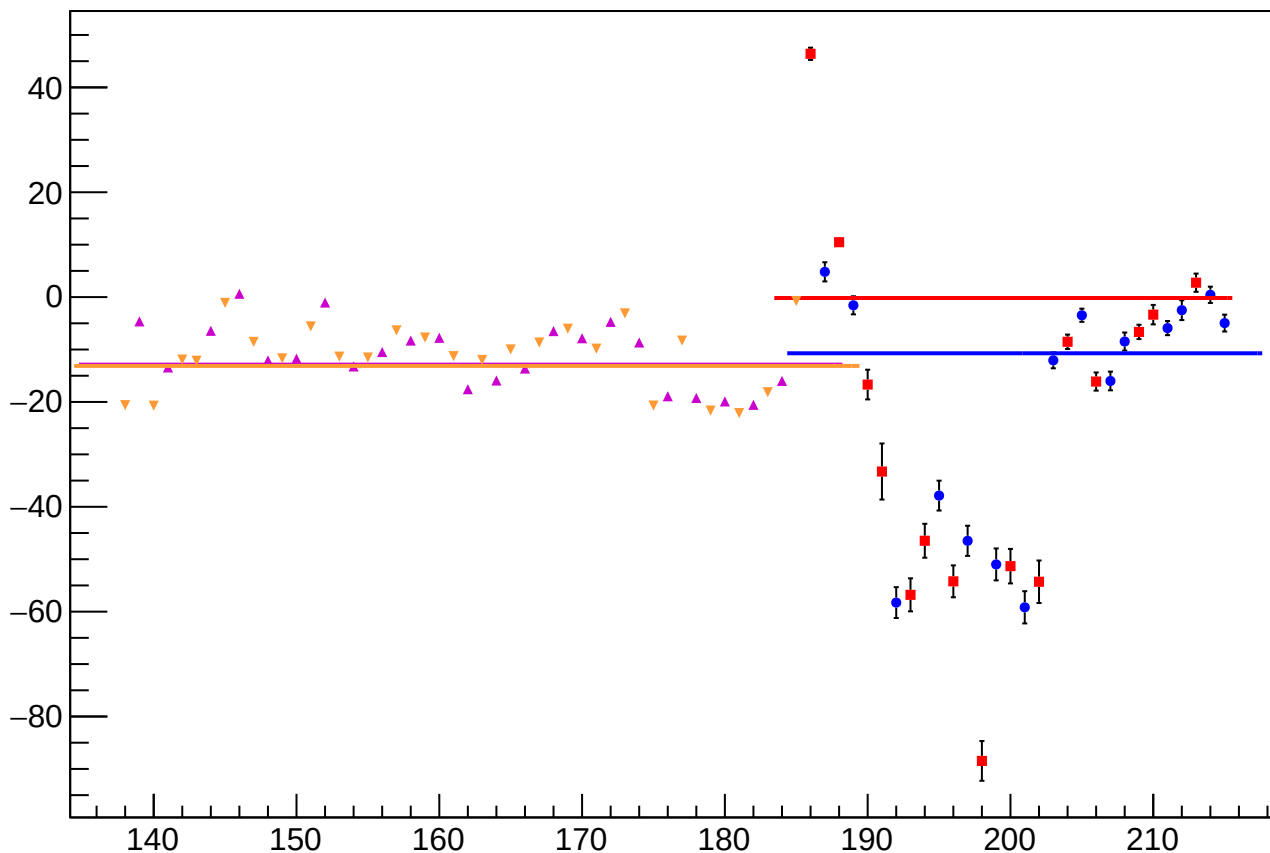
reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.354+/-0.015 χ^2/NDF : 935.8/14
 Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24
 Right Out: 0.389+/-0.015 χ^2/NDF : 4198.6/14
 Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47
 Right: 0.371+/-0.011 χ^2/NDF : 5137.0/29
 In: 0.308+/-0.002 χ^2/NDF :2644.6/37
 Out: 0.304+/-0.002 χ^2/NDF :5820.1/39
 All: 0.306+/-0.001 χ^2/NDF : 8466.6/77

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.717 ± 0.469 $\chi^2/\text{NDF}: 1170.4/14$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.172 ± 0.467 $\chi^2/\text{NDF}: 3752.4/14$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

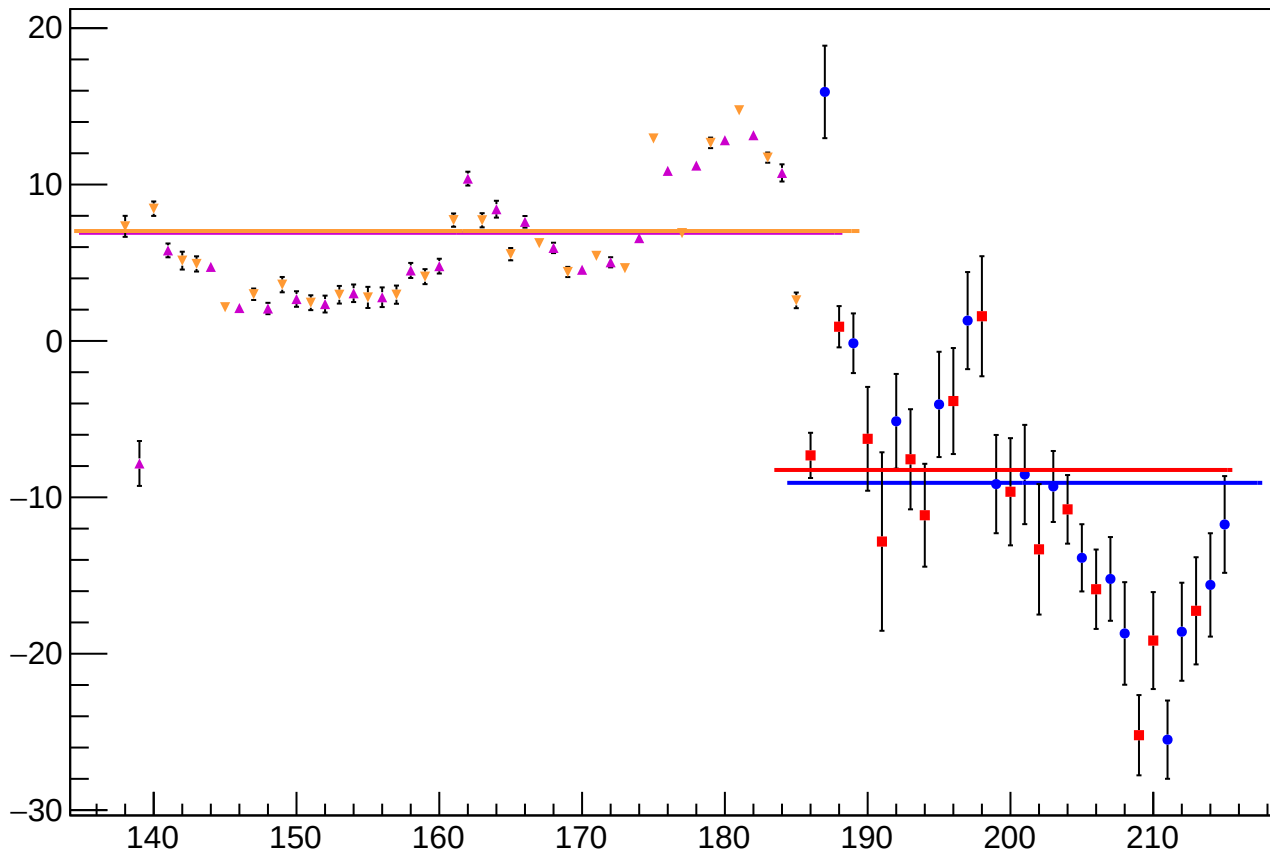
Right: -5.425 ± 0.331 $\chi^2/\text{NDF}: 5177.0/29$

In: -12.800 ± 0.093 $\chi^2/\text{NDF}: 5967.1/37$

Out: -12.624 ± 0.092 $\chi^2/\text{NDF}: 10470.3/39$

All: -12.710 ± 0.065 $\chi^2/\text{NDF}: 16439.3/77$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.074 ± 0.709 χ^2/NDF : 184.3/14

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.250 ± 0.650 χ^2/NDF : 133.6/14

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

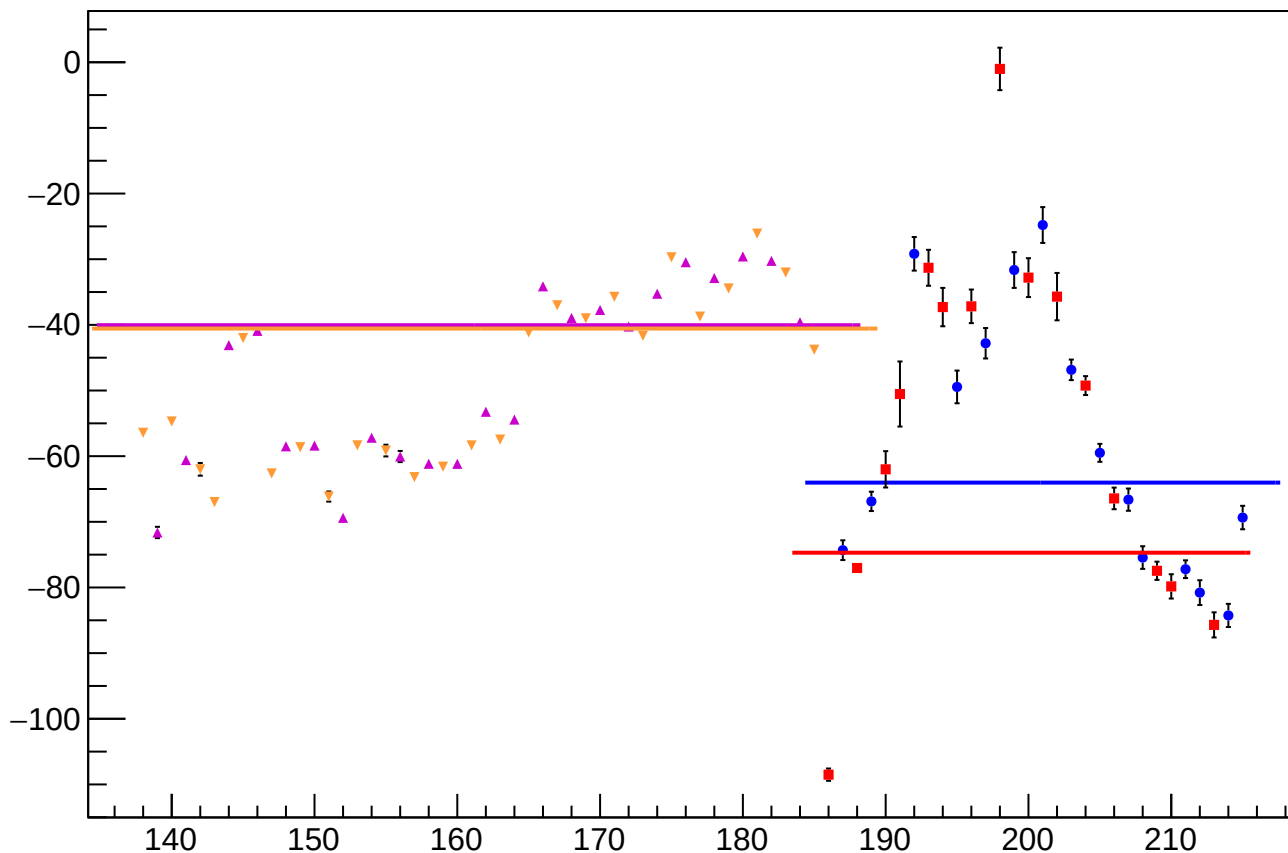
Right: -8.627 ± 0.479 χ^2/NDF : 318.6/29

In: 6.724 ± 0.077 χ^2/NDF : 3115.5/37

Out: 6.815 ± 0.077 χ^2/NDF : 3343.5/39

All: 6.770 ± 0.054 χ^2/NDF : 6459.7/77

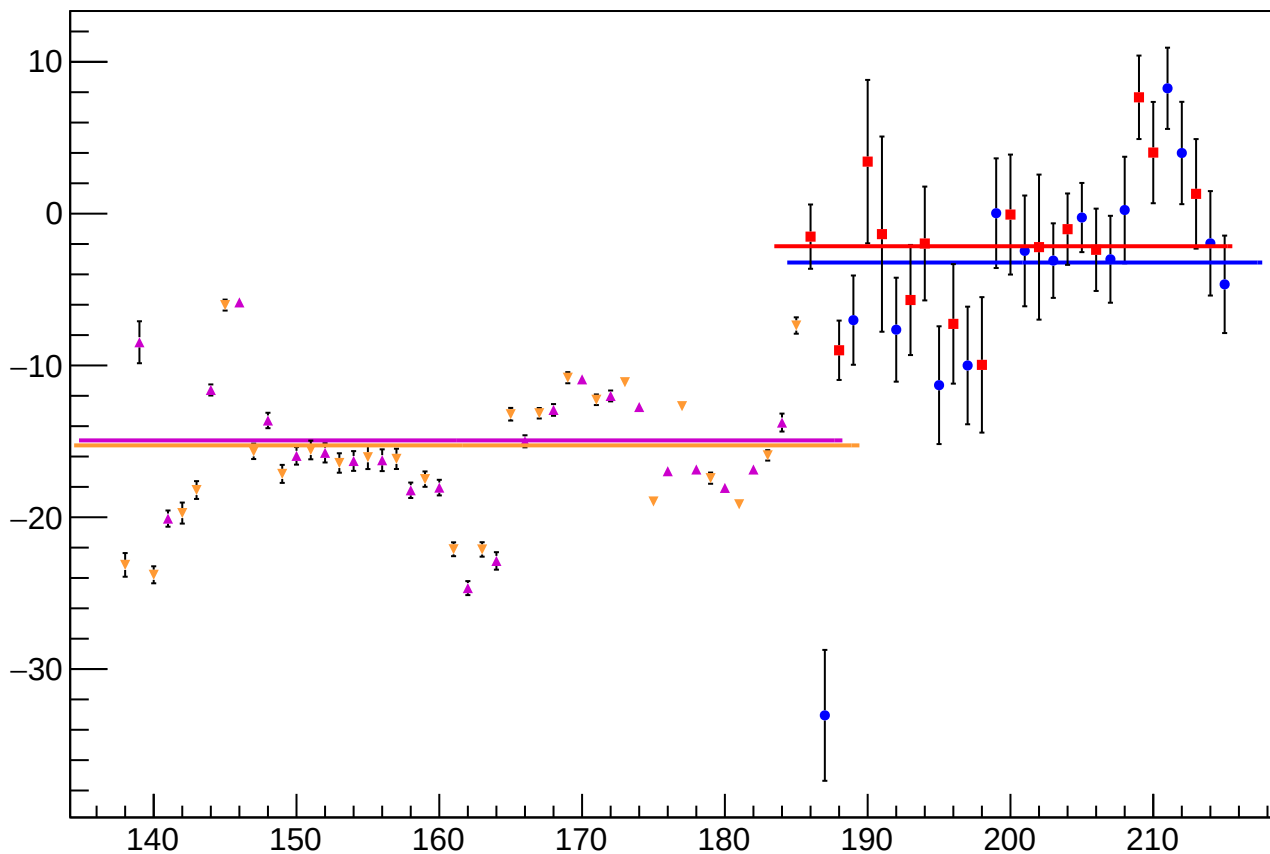
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.028 ± 0.458 $\chi^2/\text{NDF}: 1193.4/14$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -74.703 ± 0.418 $\chi^2/\text{NDF}: 3207.8/14$
 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: -69.850 ± 0.309 $\chi^2/\text{NDF}: 4697.0/29$
 In: -41.054 ± 0.094 $\chi^2/\text{NDF}: 17742.1/37$
 Out: -42.227 ± 0.092 $\chi^2/\text{NDF}: 25176.2/39$
 All: -41.648 ± 0.066 $\chi^2/\text{NDF}: 42997.7/77$

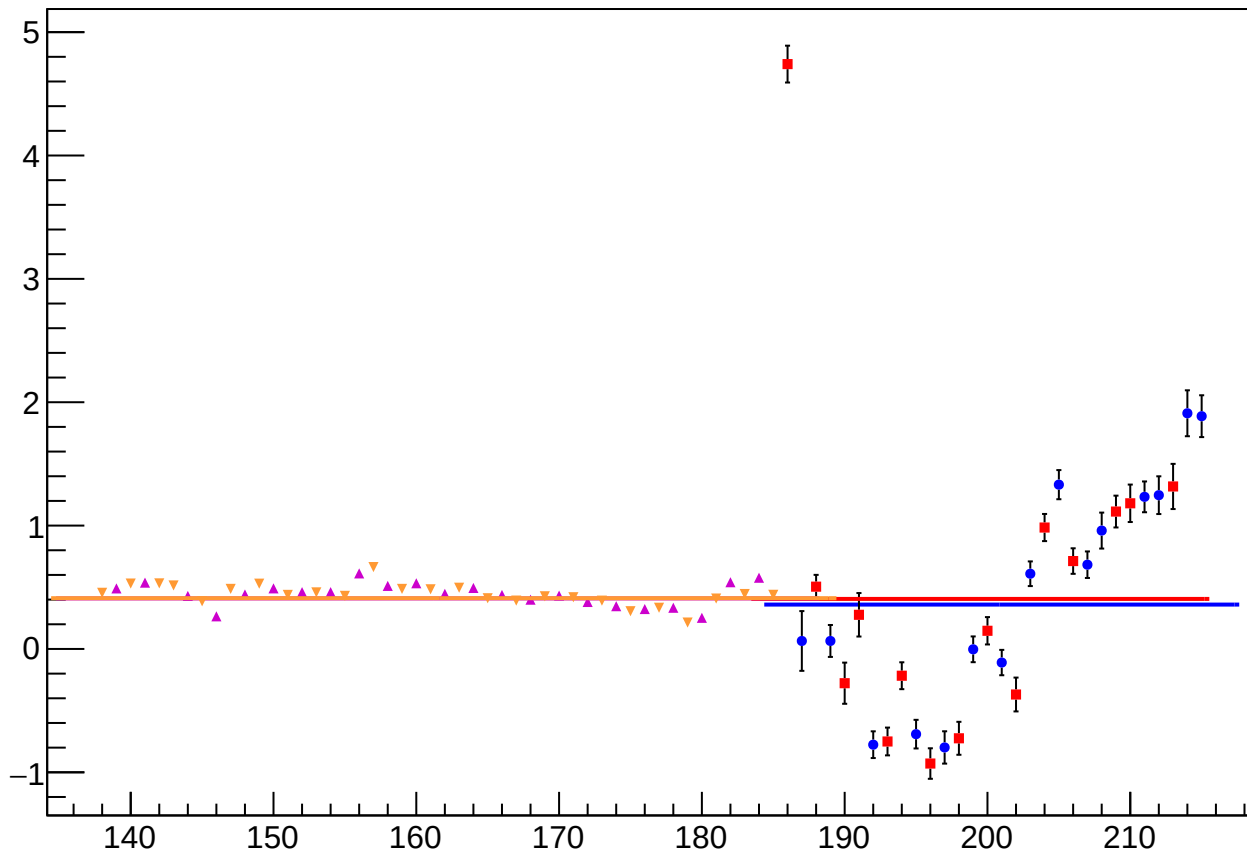
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.219 ± 0.814 $\chi^2/\text{NDF}: 85.4/14$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.146 ± 0.809 $\chi^2/\text{NDF}: 36.8/14$
 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: -2.680 ± 0.574 $\chi^2/\text{NDF}: 123.1/29$
 In: -14.804 ± 0.086 $\chi^2/\text{NDF}: 2490.2/37$
 Out: -15.119 ± 0.085 $\chi^2/\text{NDF}: 2892.4/39$
 All: -14.963 ± 0.061 $\chi^2/\text{NDF}: 5389.3/77$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.360 $\pm$ 0.032 χ^2/NDF : 642.6/14

Left Out: 0.411 $\pm$ 0.004 χ^2/NDF : 428.7/24

Right Out: 0.406 $\pm$ 0.032 χ^2/NDF : 1341.5/14

Left In: 0.409 $\pm$ 0.004 χ^2/NDF : 557.8/22

Left: 0.410 $\pm$ 0.003 χ^2/NDF : 986.7/47

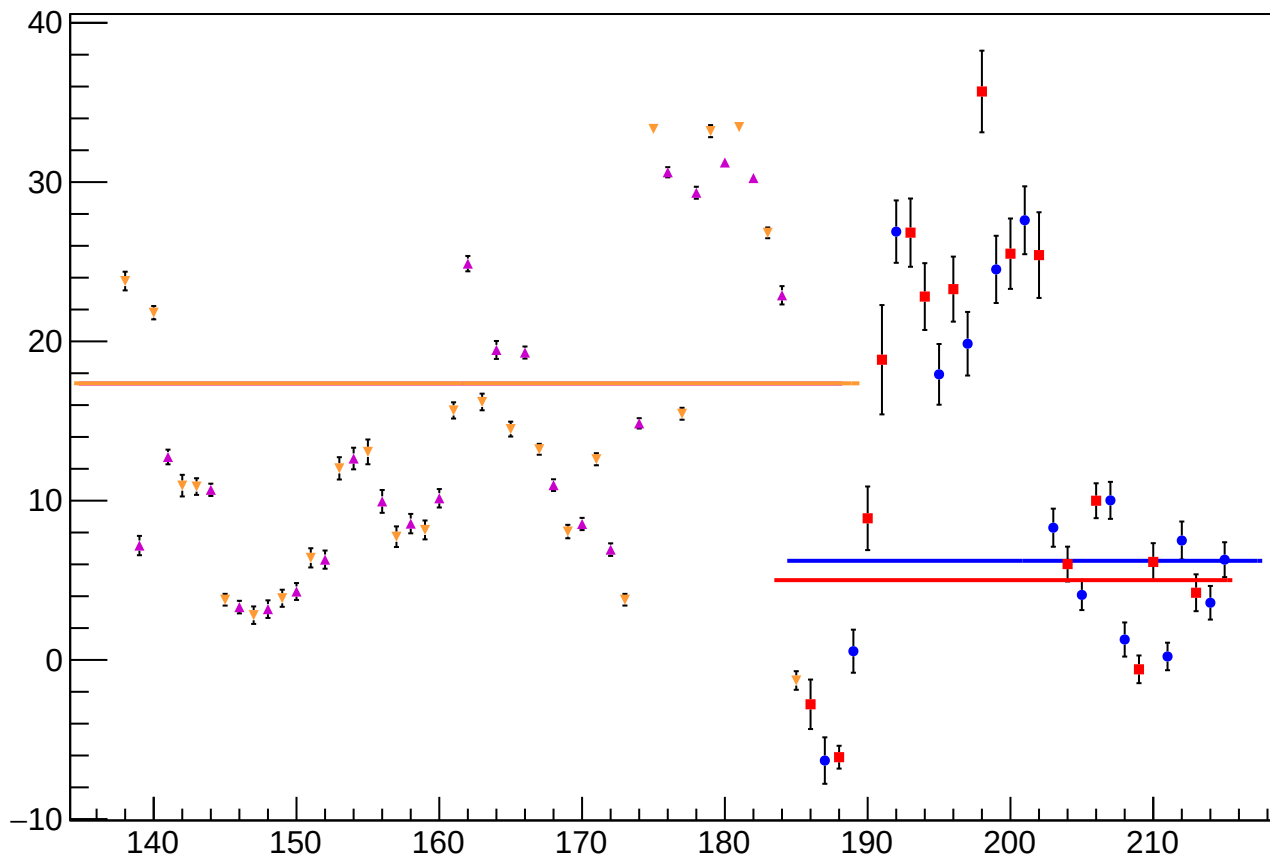
Right: 0.383 $\pm$ 0.023 χ^2/NDF : 1985.1/29

In: 0.409 $\pm$ 0.004 χ^2/NDF : 1202.8/37

Out: 0.411 $\pm$ 0.004 χ^2/NDF : 1770.2/39

All: 0.410 $\pm$ 0.003 χ^2/NDF : 2973.2/77

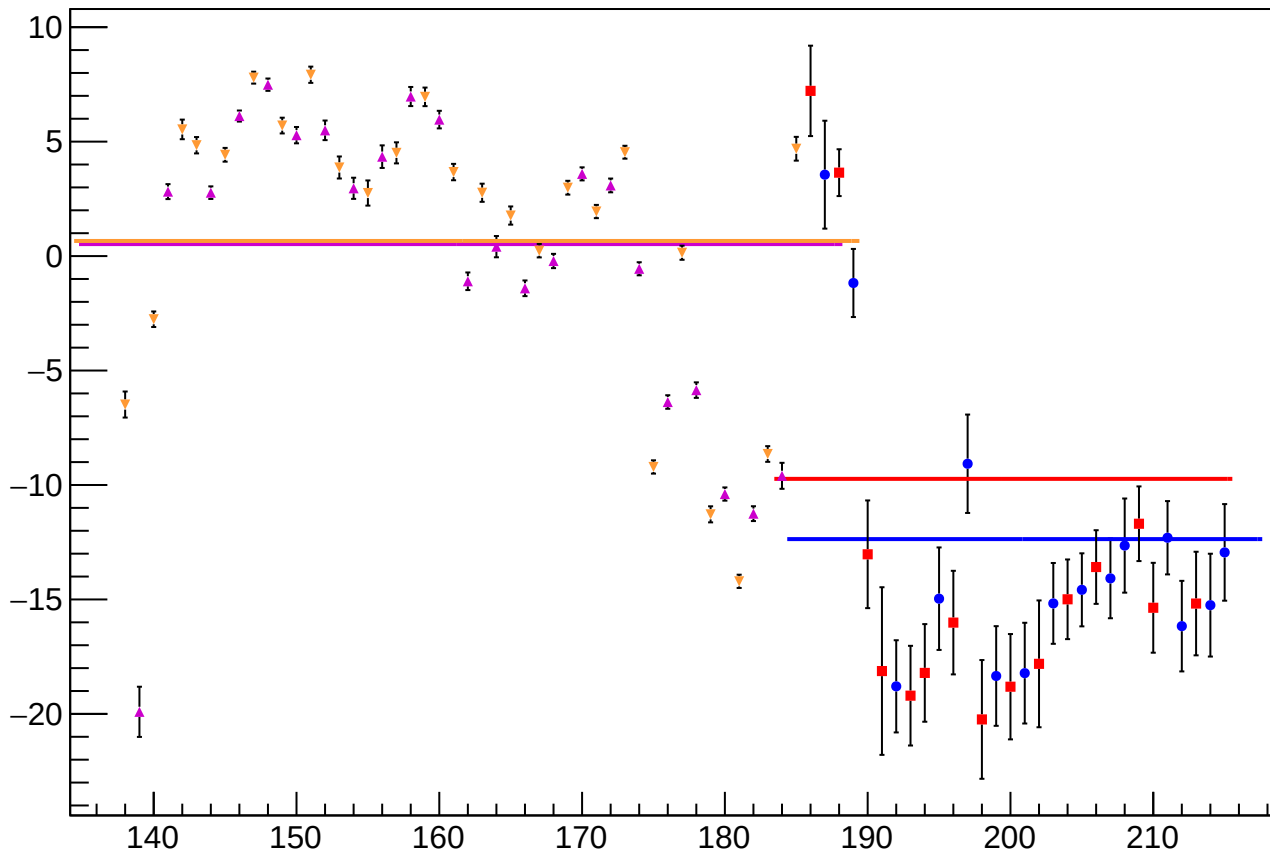
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.224 $\pm$ 0.326 χ^2 /NDF: 558.7/14
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 5.009 $\pm$ 0.346 χ^2 /NDF: 892.9/14
 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: 5.654 $\pm$ 0.237 χ^2 /NDF: 1458.1/29
 In: 16.583 $\pm$ 0.086 χ^2 /NDF:14391.6/37
 Out: 16.632 $\pm$ 0.084 χ^2 /NDF:18428.4/39
 All: 16.608 $\pm$ 0.060 χ^2 /NDF: 32820.1/77

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.364 ± 0.496 χ^2/NDF : 141.6/14

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -9.732 ± 0.493 χ^2/NDF : 365.2/14

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

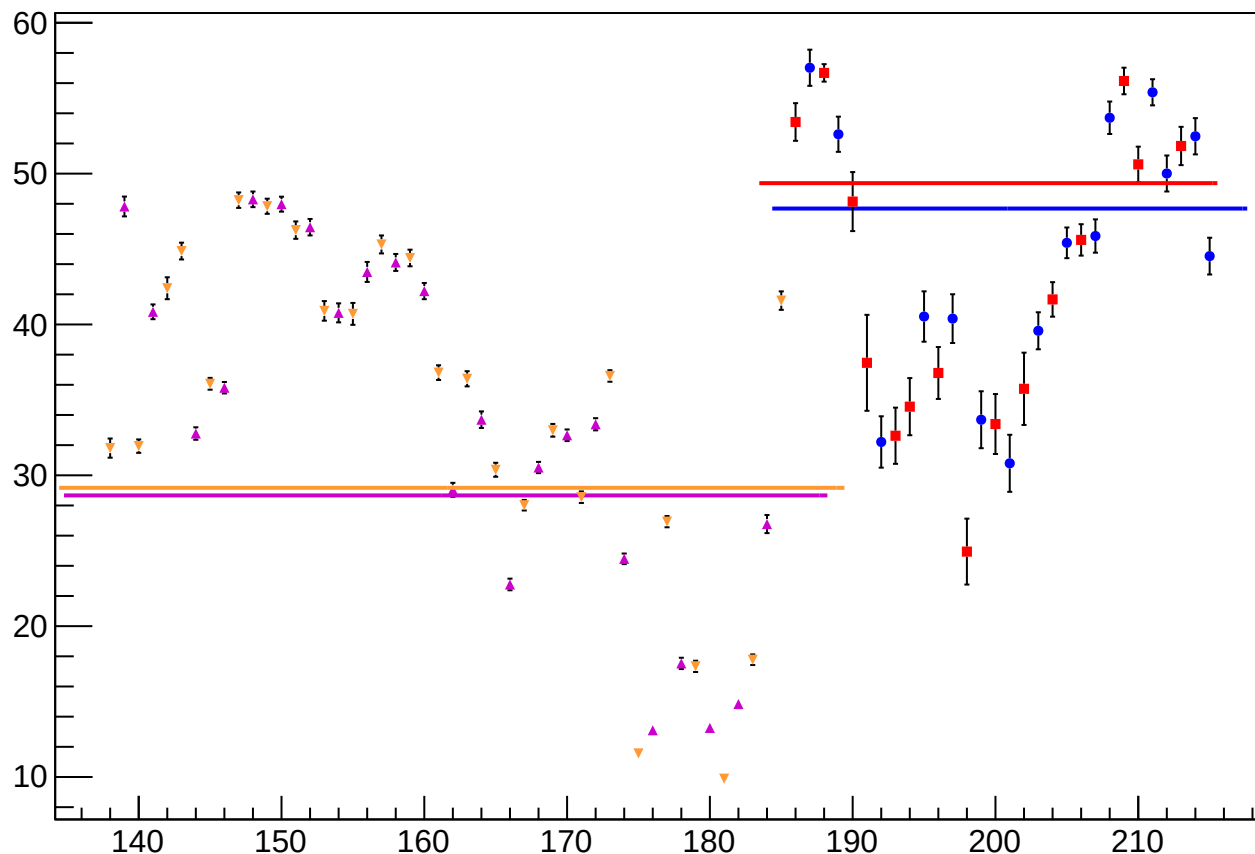
Right: -11.040 ± 0.350 χ^2/NDF : 520.9/29

In: 0.267 ± 0.070 χ^2/NDF : 7532.0/37

Out: 0.459 ± 0.069 χ^2/NDF : 9354.2/39

All: 0.365 ± 0.049 χ^2/NDF : 16890.1/77

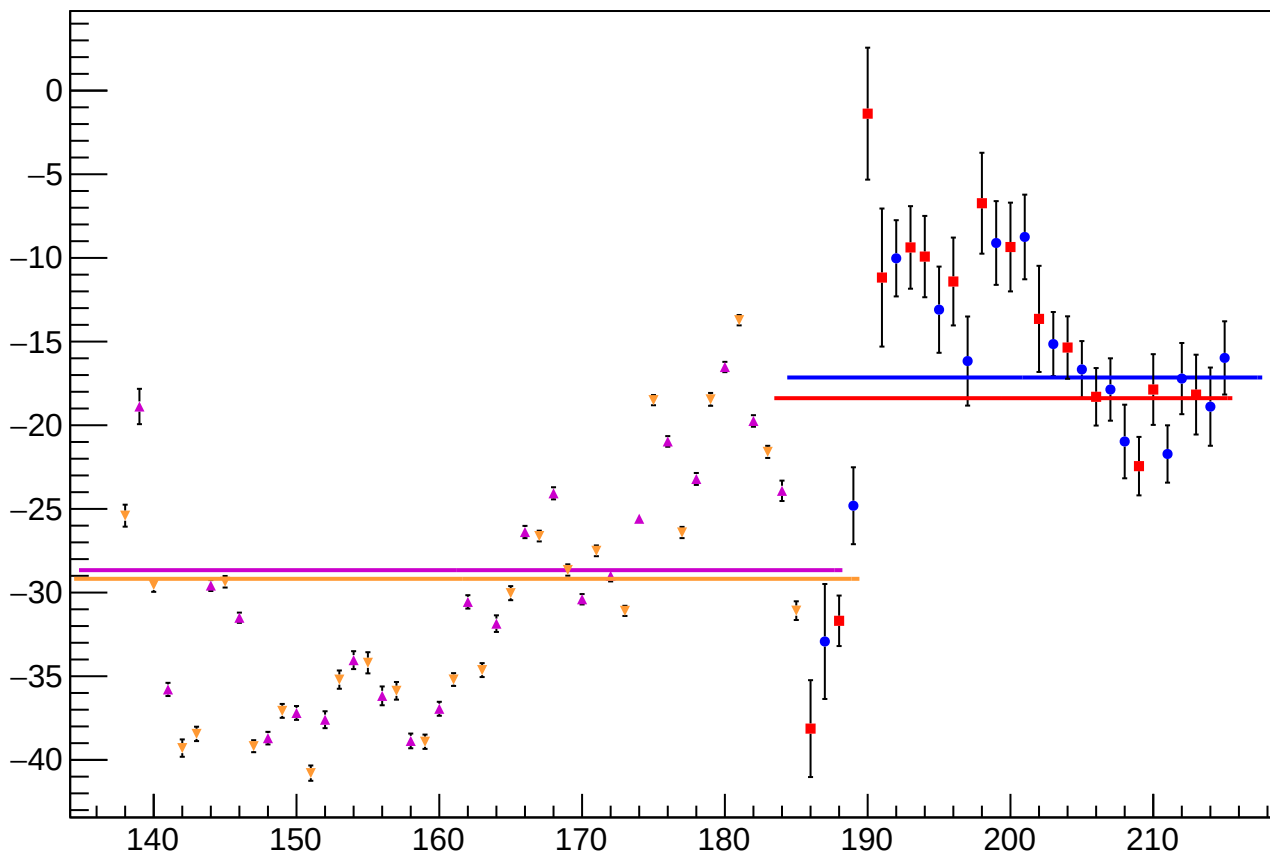
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.685 $\pm$ 0.320 χ^2 /NDF: 522.8/14
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF: 18974.7/24
 Right Out: 49.369 $\pm$ 0.319 χ^2 /NDF: 724.3/14
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF: 16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 48.529 $\pm$ 0.226 χ^2 /NDF: 1261.1/29
 In: 30.040 $\pm$ 0.086 χ^2 /NDF: 20656.9/37
 Out: 30.596 $\pm$ 0.085 χ^2 /NDF: 23434.8/39
 All: 30.322 $\pm$ 0.060 χ^2 /NDF: 44113.0/77

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



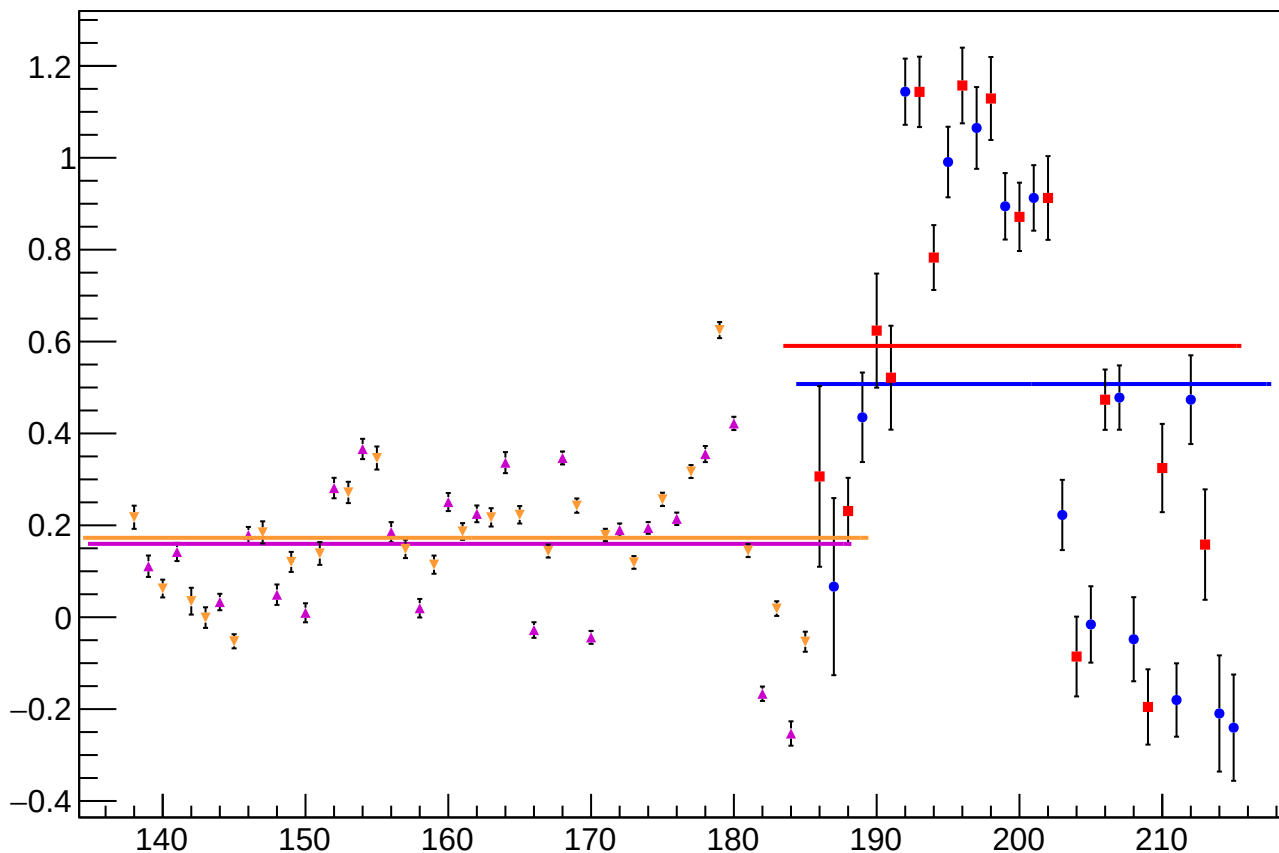
Right In: -17.146 ± 0.564 $\chi^2/\text{NDF}: 78.3/14$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.383 ± 0.591 $\chi^2/\text{NDF}: 215.3/14$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.735 ± 0.408 $\chi^2/\text{NDF}: 295.8/29$

In: -28.434 ± 0.079 $\chi^2/\text{NDF}: 7157.0/37$
 Out: -28.992 ± 0.077 $\chi^2/\text{NDF}: 9624.8/39$

All: -28.719 ± 0.055 $\chi^2/\text{NDF}: 16807.2/77$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.508 ± 0.022 χ^2/NDF : 462.2/14

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.591 ± 0.022 χ^2/NDF : 372.8/14

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

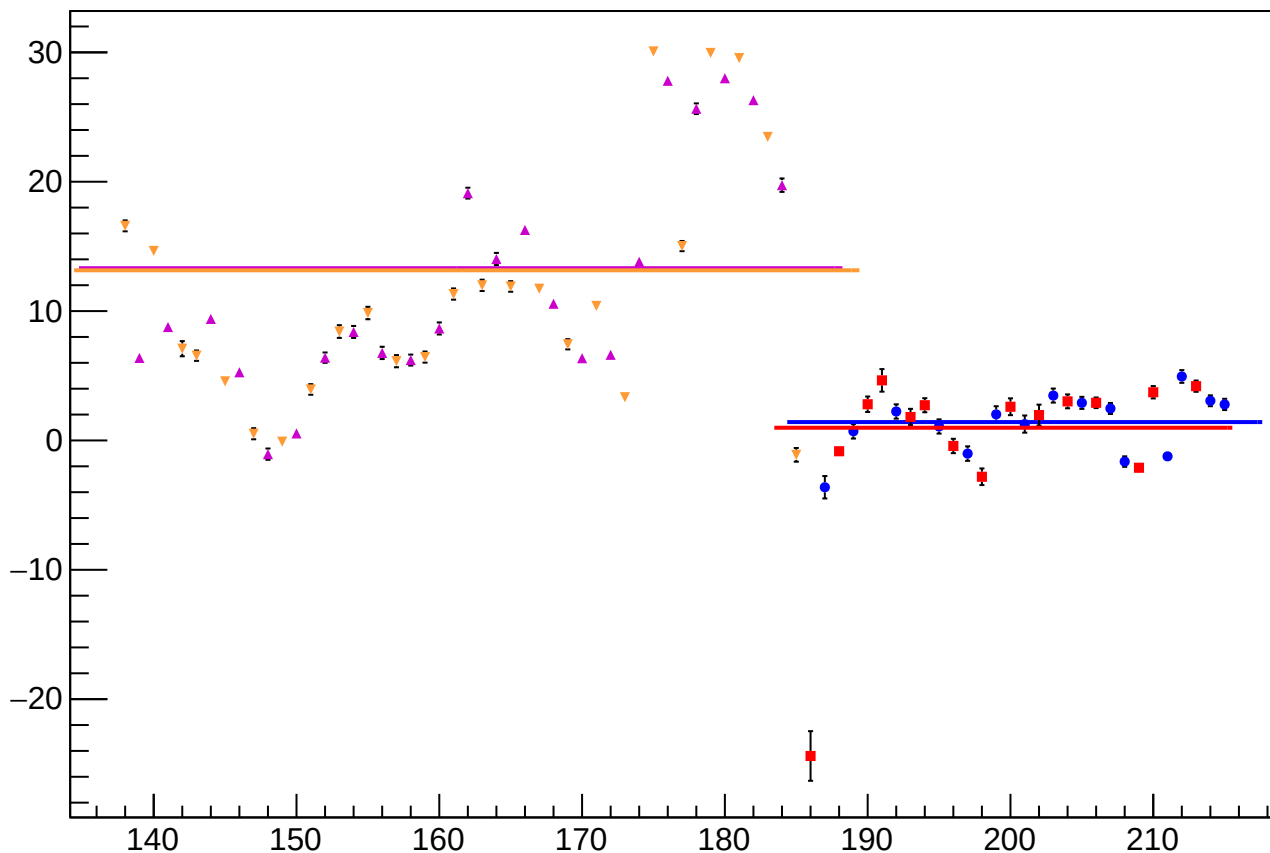
Right: 0.548 ± 0.016 χ^2/NDF : 842.0/29

In: 0.169 ± 0.004 χ^2/NDF : 2761.5/37

Out: 0.183 ± 0.004 χ^2/NDF : 2190.3/39

All: 0.176 ± 0.003 χ^2/NDF : 4959.8/77

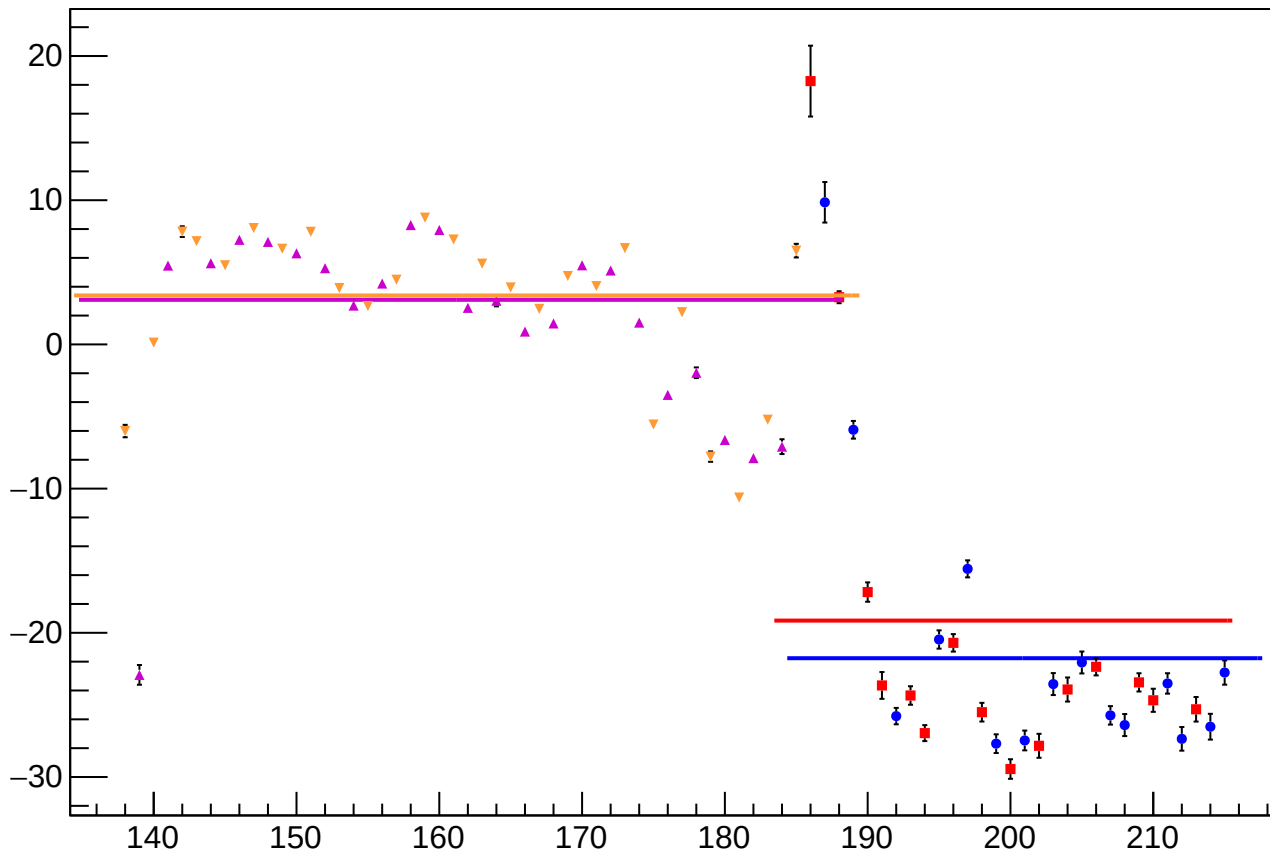
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.420 $\pm$ 0.129 χ^2 /NDF: 269.1/14
 Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24
 Right Out: 0.983 $\pm$ 0.129 χ^2 /NDF: 512.0/14
 Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47
 Right: 1.202 $\pm$ 0.091 χ^2 /NDF: 786.8/29
 In: 10.169 $\pm$ 0.066 χ^2 /NDF:20540.1/37
 Out: 10.058 $\pm$ 0.065 χ^2 /NDF:24248.9/39
 All: 10.113 $\pm$ 0.046 χ^2 /NDF: 44790.4/77

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.762 ± 0.183 $\chi^2/\text{NDF}: 1651.6/14$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.152 ± 0.173 $\chi^2/\text{NDF}: 4105.5/14$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

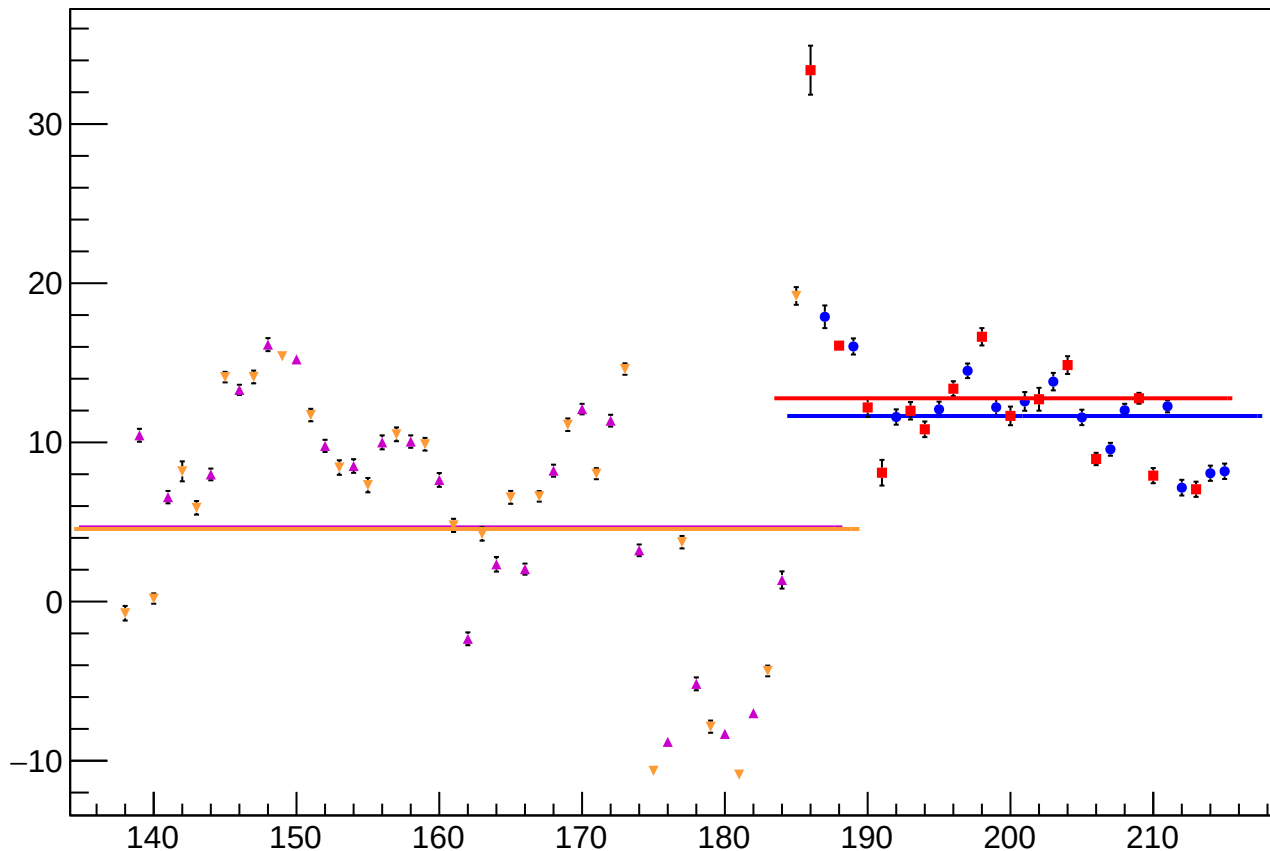
Right: -20.383 ± 0.126 $\chi^2/\text{NDF}: 5864.6/29$

In: 0.638 ± 0.058 $\chi^2/\text{NDF}: 25379.6/37$

Out: 1.089 ± 0.055 $\chi^2/\text{NDF}: 27471.9/39$

All: 0.872 ± 0.040 $\chi^2/\text{NDF}: 52883.4/77$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.658+/-0.125 χ^2/NDF : 429.4/14

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 12.771+/-0.118 χ^2/NDF : 852.9/14

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

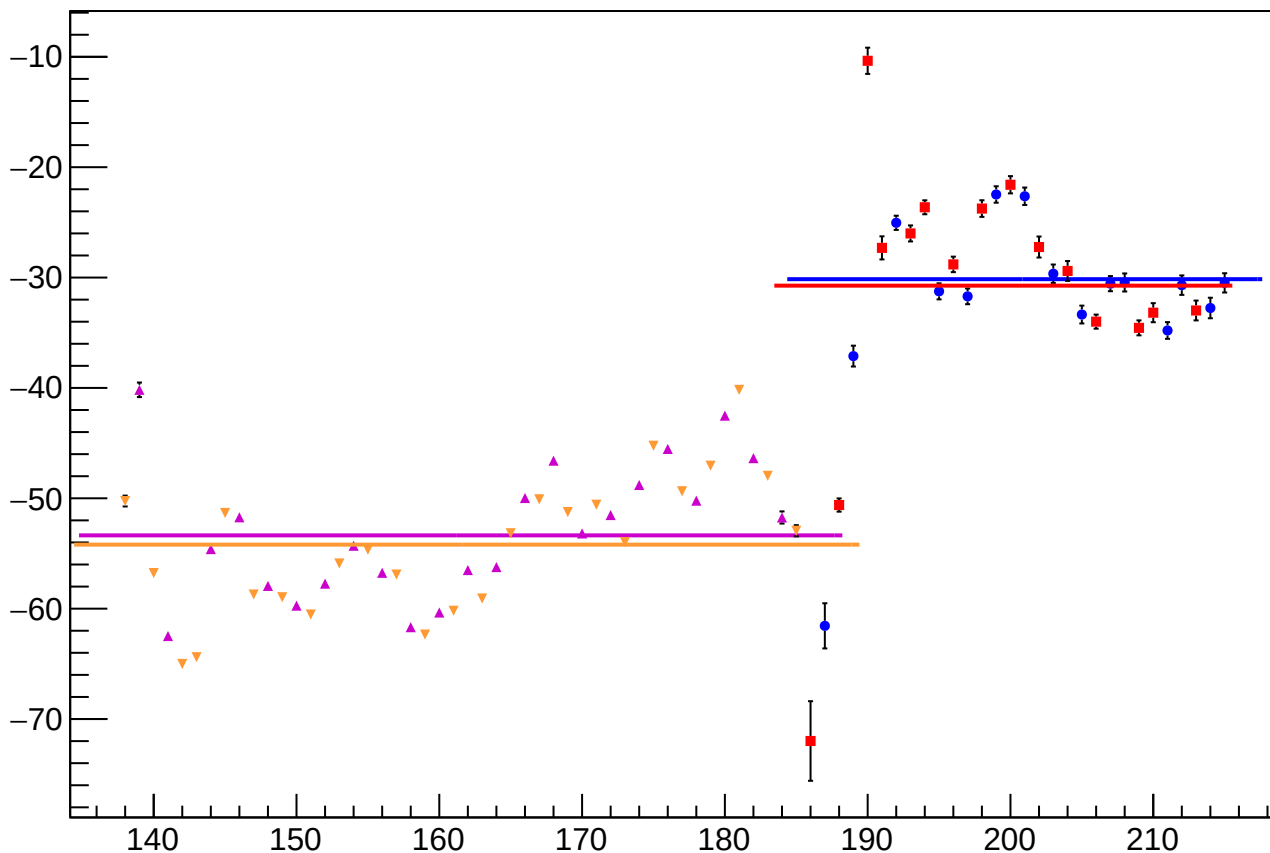
Right: 12.242+/-0.086 χ^2/NDF : 1324.2/29

In: 6.589+/-0.065 χ^2/NDF :13995.3/37

Out: 6.927+/-0.064 χ^2/NDF :17862.4/39

All: 6.762+/-0.046 χ^2/NDF : 31871.5/77

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

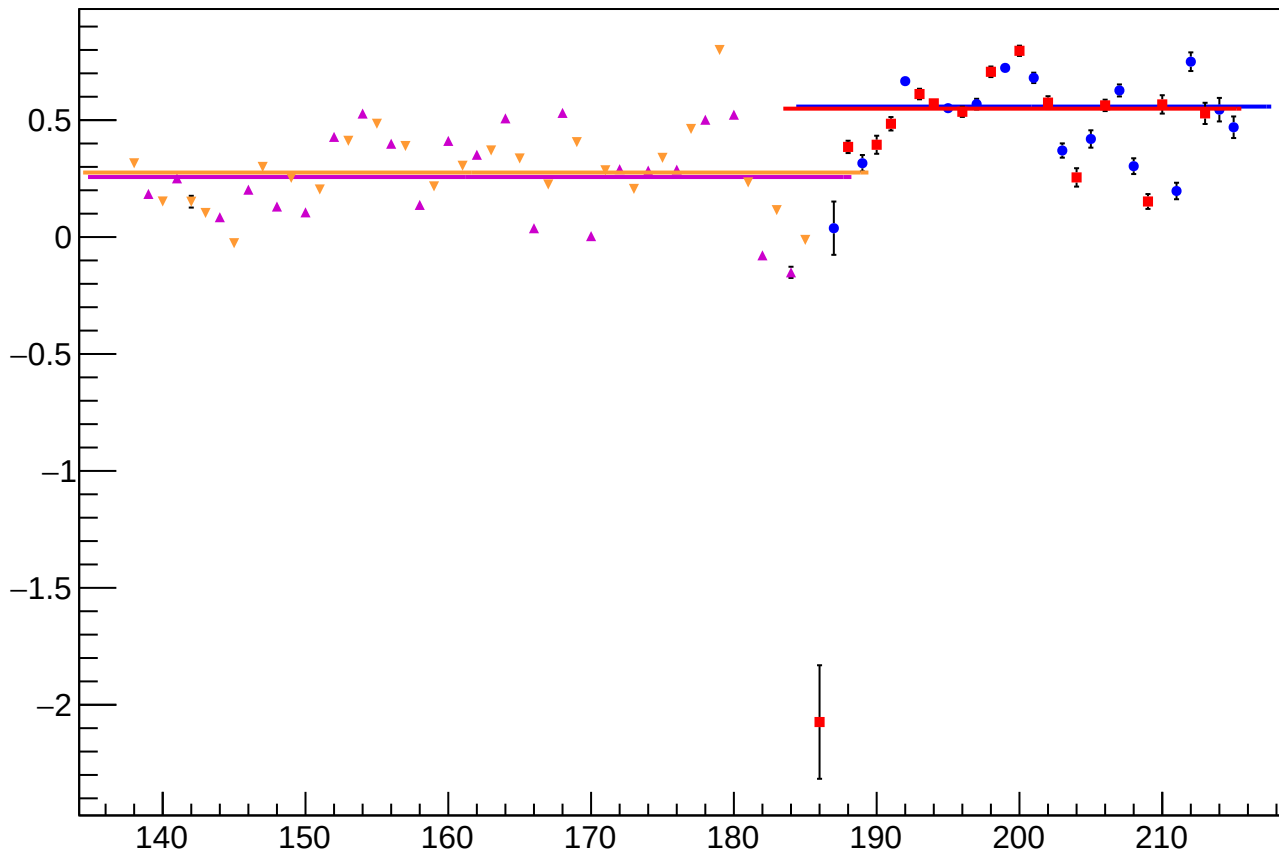
Right: -30.444 ± 0.146 $\chi^2/\text{NDF}: 2647.3/29$

In: -51.085 ± 0.065 $\chi^2/\text{NDF}: 18753.7/37$

Out: -51.965 ± 0.063 $\chi^2/\text{NDF}: 22370.6/39$

All: -51.538 ± 0.045 $\chi^2/\text{NDF}: 41218.5/77$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.558 ± 0.007 χ^2/NDF : 434.4/14

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.549 ± 0.007 χ^2/NDF : 575.1/14

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

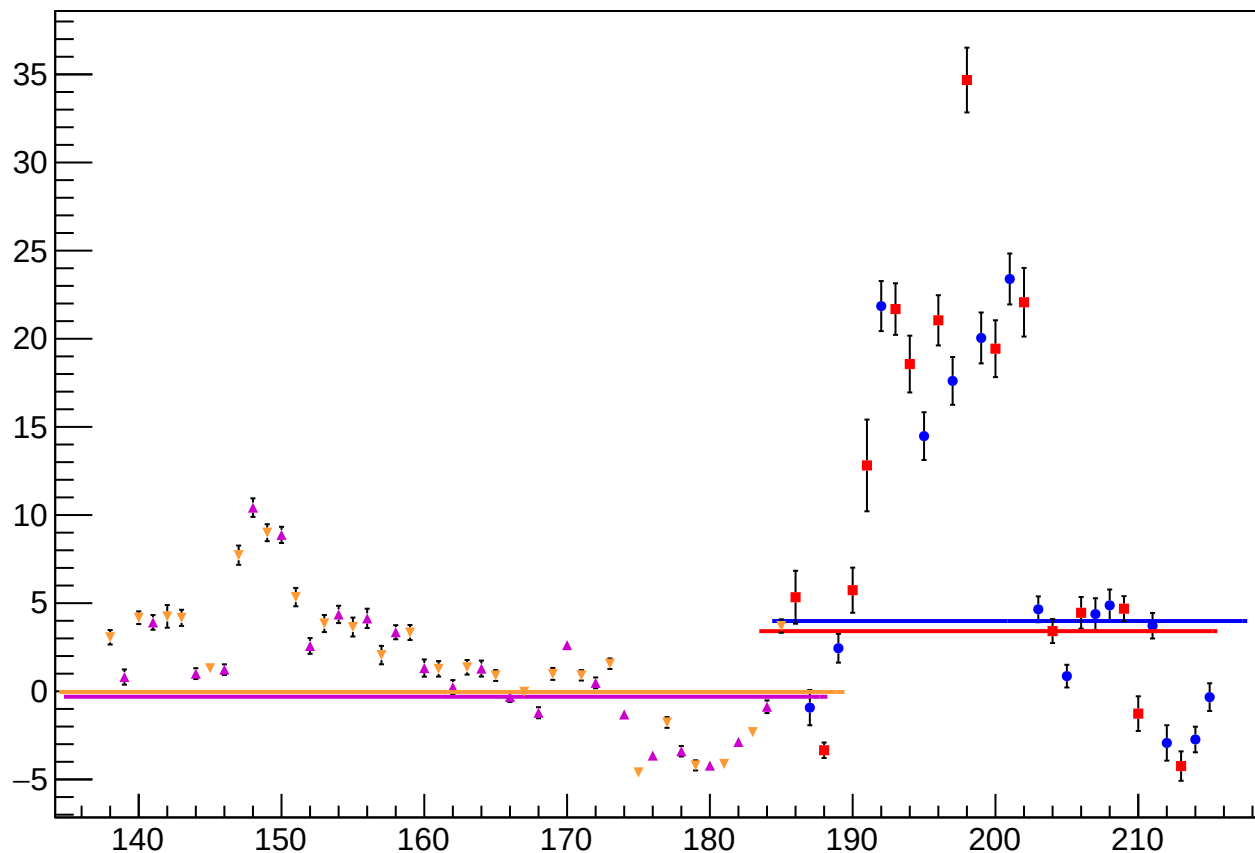
Right: 0.553 ± 0.005 χ^2/NDF : 1010.2/29

In: 0.301 ± 0.003 χ^2/NDF : 5453.4/37

Out: 0.319 ± 0.003 χ^2/NDF : 4466.0/39

All: 0.310 ± 0.002 χ^2/NDF : 9939.0/77

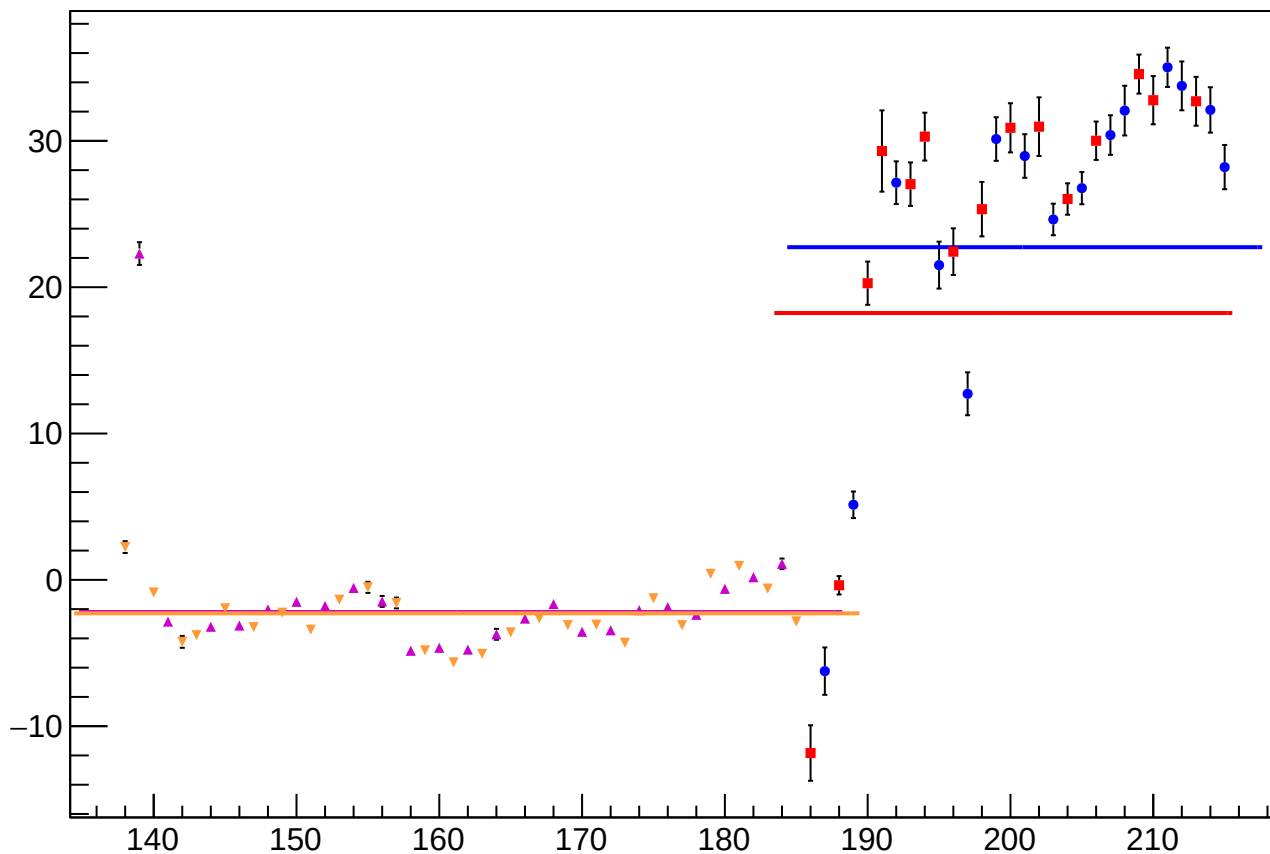
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.986 ± 0.234 $\chi^2/\text{NDF}: 839.9/14$
 Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$
 Right Out: 3.413 ± 0.246 $\chi^2/\text{NDF}: 1244.3/14$
 Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$
 Right: 3.713 ± 0.170 $\chi^2/\text{NDF}: 2087.1/29$
 In: 0.017 ± 0.065 $\chi^2/\text{NDF}: 3400.7/37$
 Out: 0.195 ± 0.064 $\chi^2/\text{NDF}: 4065.5/39$
 All: 0.107 ± 0.045 $\chi^2/\text{NDF}: 7470.0/77$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.734 $\pm$ 0.350 χ^2 /NDF: 1053.5/14

Left Out: -2.288 $\pm$ 0.054 χ^2 /NDF:1137.7/24

Right Out: 18.235 $\pm$ 0.348 χ^2 /NDF: 1791.5/14

Left In: -2.198 $\pm$ 0.055 χ^2 /NDF:1673.9/22

Left: -2.244 $\pm$ 0.039 χ^2 /NDF: 2813.0/47

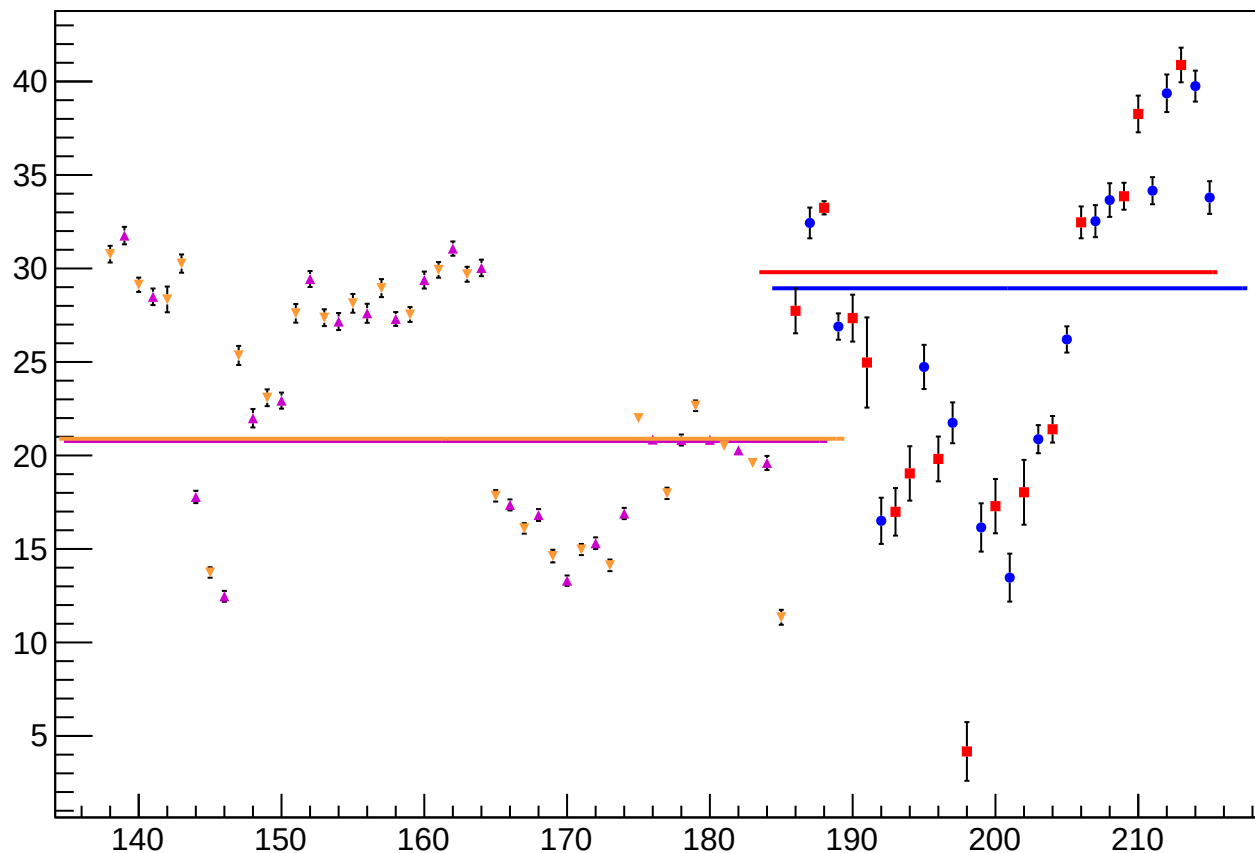
Right: 20.474 $\pm$ 0.247 χ^2 /NDF: 2928.1/29

In: -1.594 $\pm$ 0.054 χ^2 /NDF:7686.8/37

Out: -1.803 $\pm$ 0.053 χ^2 /NDF:6323.1/39

All: -1.701 $\pm$ 0.038 χ^2 /NDF: 14017.4/77

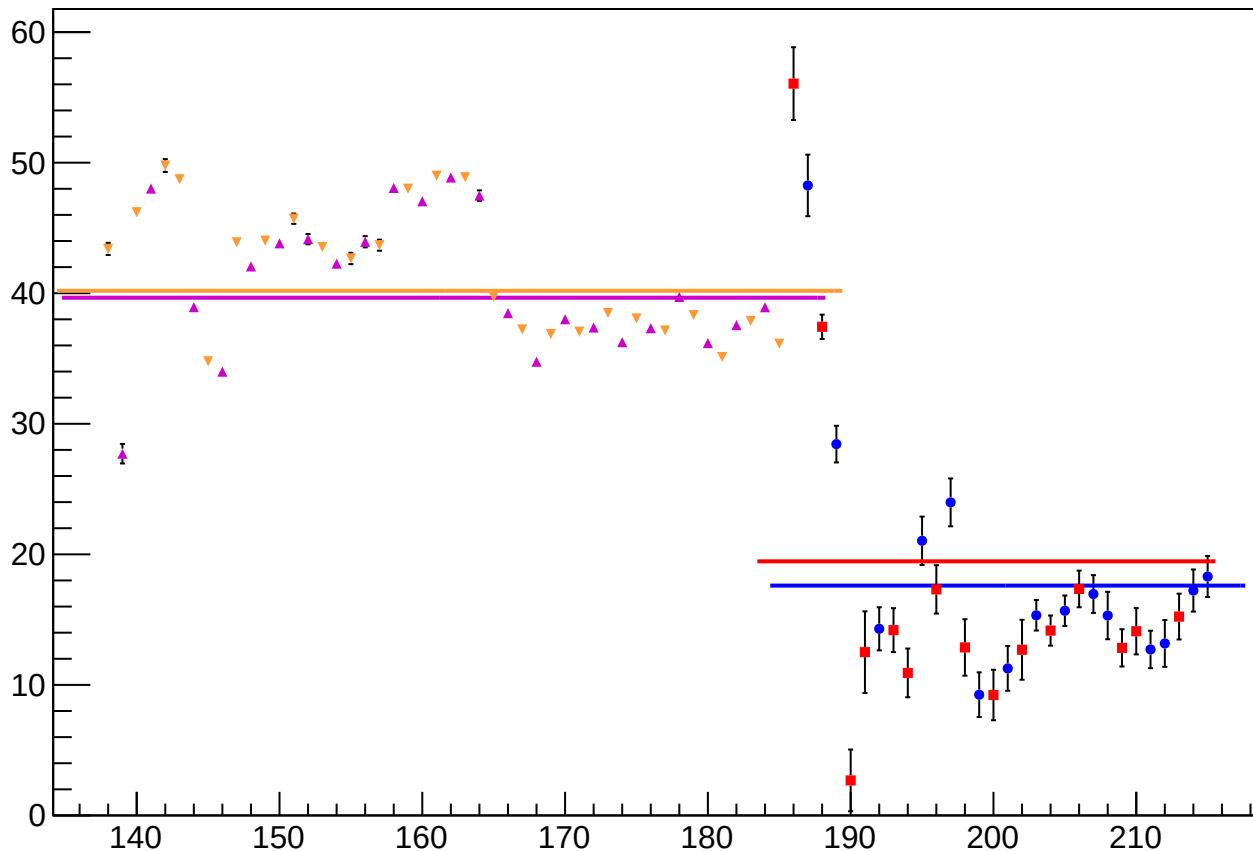
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.940 $\pm$ 0.230 χ^2 /NDF: 964.0/14
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24
 Right Out: 29.802 $\pm$ 0.224 χ^2 /NDF: 1117.4/14
 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: 29.382 $\pm$ 0.160 χ^2 /NDF: 2088.7/29
 In: 21.424 $\pm$ 0.065 χ^2 /NDF:8056.0/37
 Out: 21.621 $\pm$ 0.064 χ^2 /NDF:9228.3/39
 All: 21.524 $\pm$ 0.046 χ^2 /NDF: 17288.9/77

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.606 $\pm$ 0.403 χ^2 /NDF: 312.0/14

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.465 $\pm$ 0.424 χ^2 /NDF: 738.5/14

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

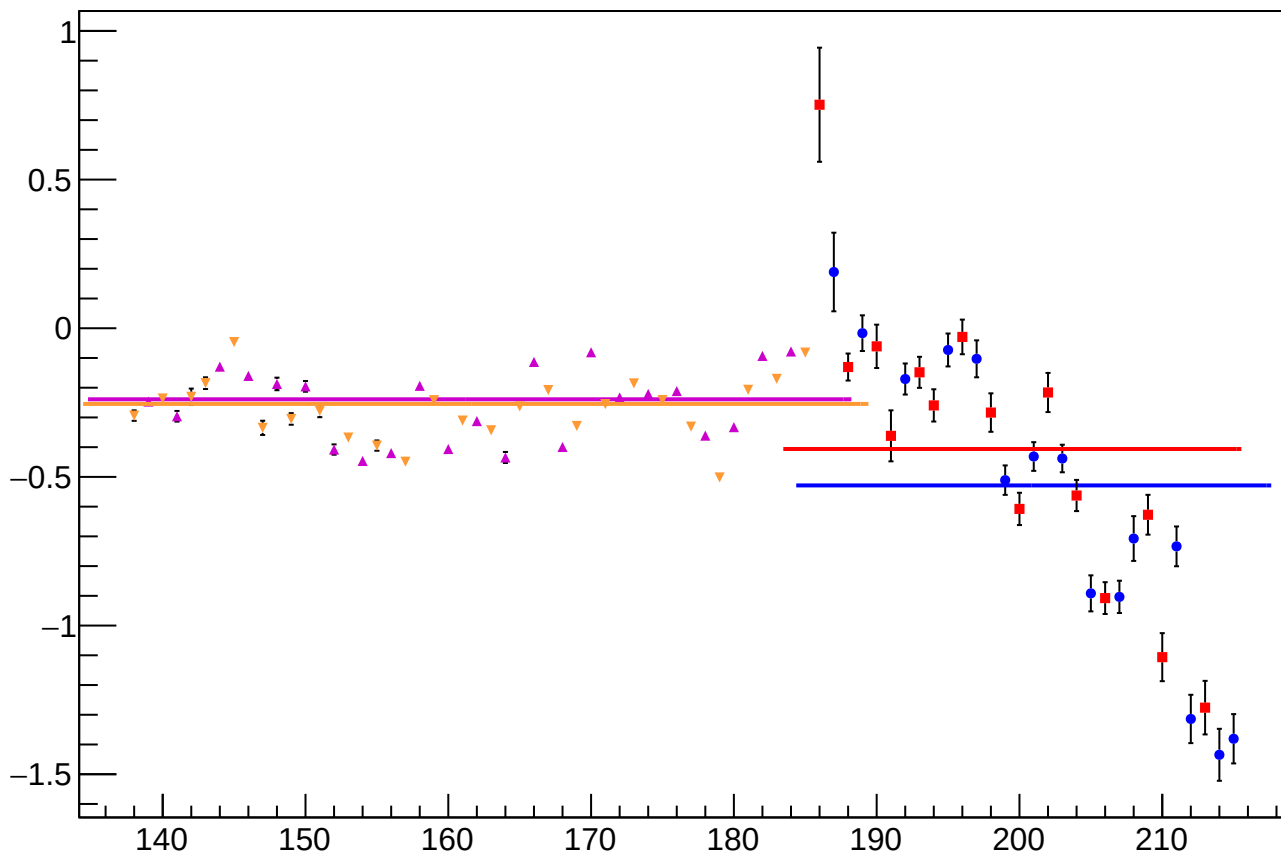
Right: 18.488 $\pm$ 0.292 χ^2 /NDF: 1060.7/29

In: 39.154 $\pm$ 0.061 χ^2 /NDF: 8538.0/37

Out: 39.774 $\pm$ 0.060 χ^2 /NDF: 9011.3/39

All: 39.469 $\pm$ 0.043 χ^2 /NDF: 17602.2/77

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.529 ± 0.016 χ^2/NDF : 676.6/14

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.406 ± 0.016 χ^2/NDF : 471.2/14

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

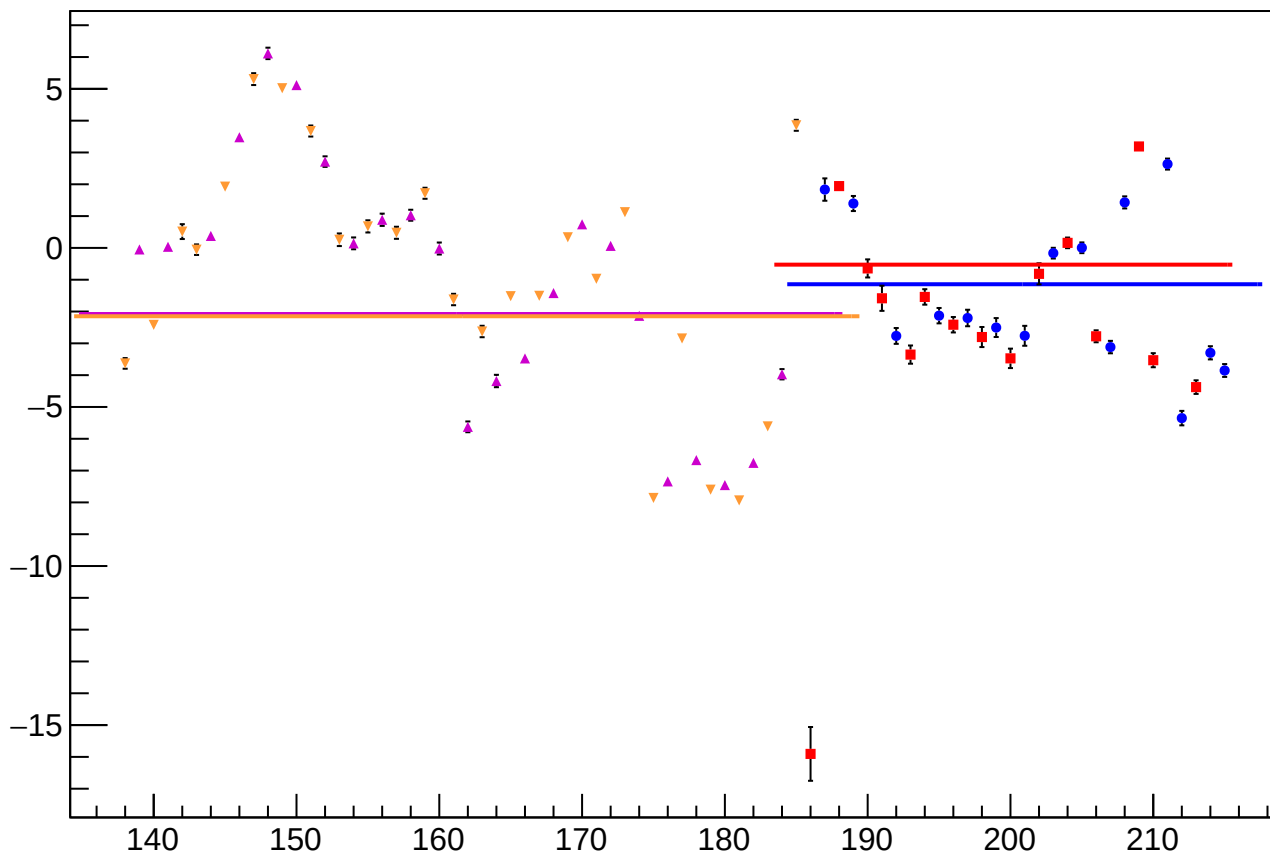
Right: -0.469 ± 0.011 χ^2/NDF : 1177.4/29

In: -0.248 ± 0.003 χ^2/NDF : 2754.8/37

Out: -0.259 ± 0.003 χ^2/NDF : 1977.7/39

All: -0.253 ± 0.002 χ^2/NDF : 4740.7/77

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

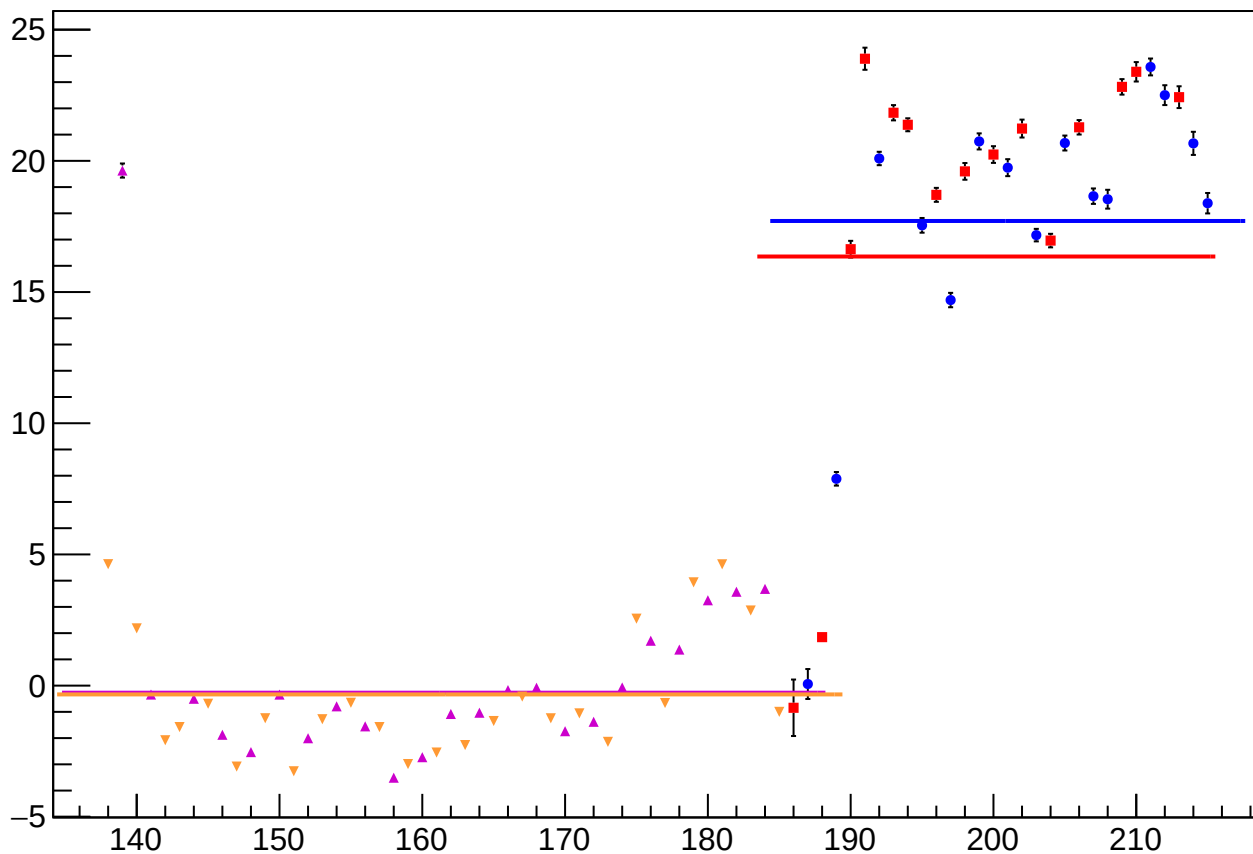


Right In: -1.142 ± 0.056 $\chi^2/\text{NDF}: 1778.4/14$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.526 ± 0.055 $\chi^2/\text{NDF}: 2389.3/14$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -0.831 ± 0.039 $\chi^2/\text{NDF}: 4228.9/29$
 In: -1.911 ± 0.024 $\chi^2/\text{NDF}: 25254.1/37$
 Out: -1.863 ± 0.023 $\chi^2/\text{NDF}: 27631.5/39$

All: -1.887 ± 0.017 $\chi^2/\text{NDF}: 52887.8/77$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.709 $\pm$ 0.080 χ^2 /NDF: 3411.0/14

Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24

Right Out: 16.354 $\pm$ 0.075 χ^2 /NDF: 11334.0/14

Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47

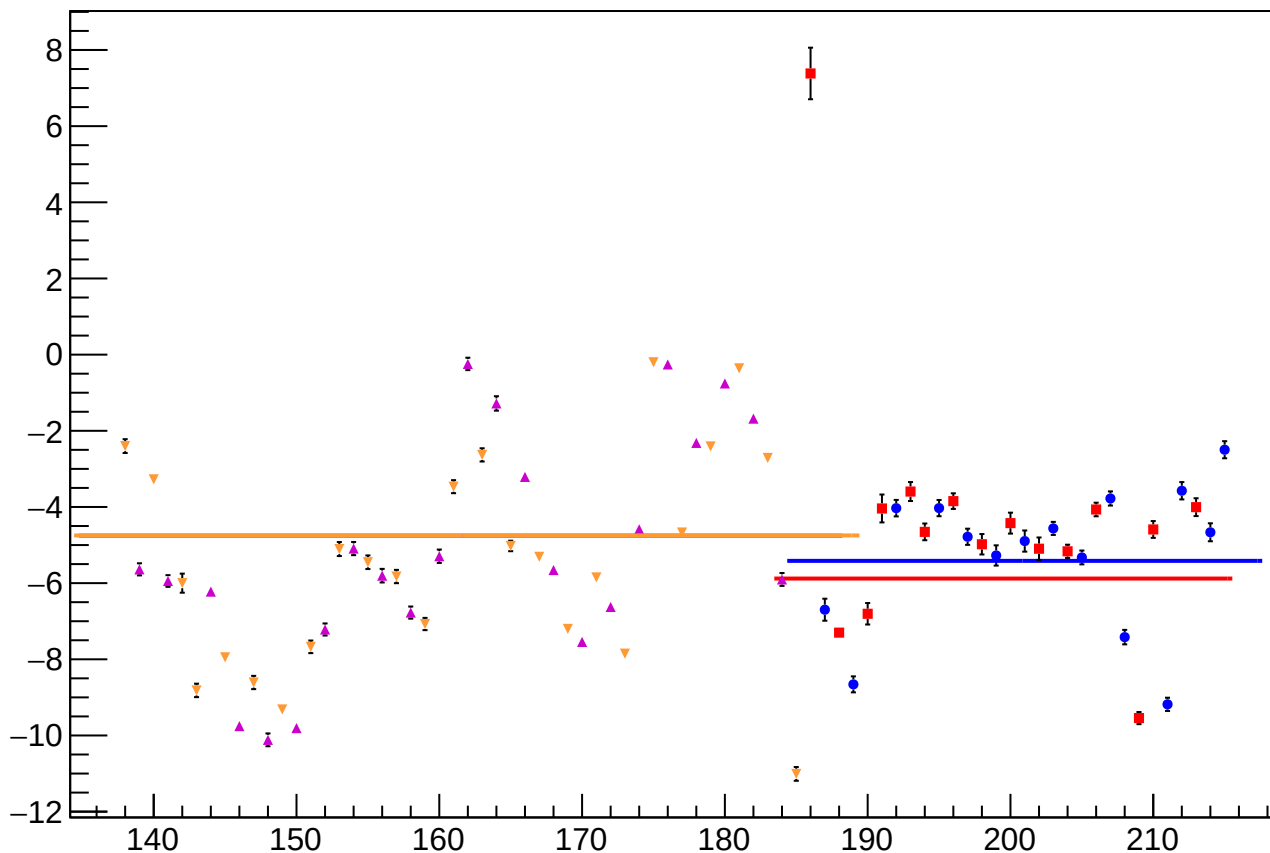
Right: 16.989 $\pm$ 0.055 χ^2 /NDF: 14898.1/29

In: 0.889 $\pm$ 0.020 χ^2 /NDF:64215.8/37

Out: 0.835 $\pm$ 0.020 χ^2 /NDF:70033.6/39

All: 0.862 $\pm$ 0.014 χ^2 /NDF: 134253.0/77

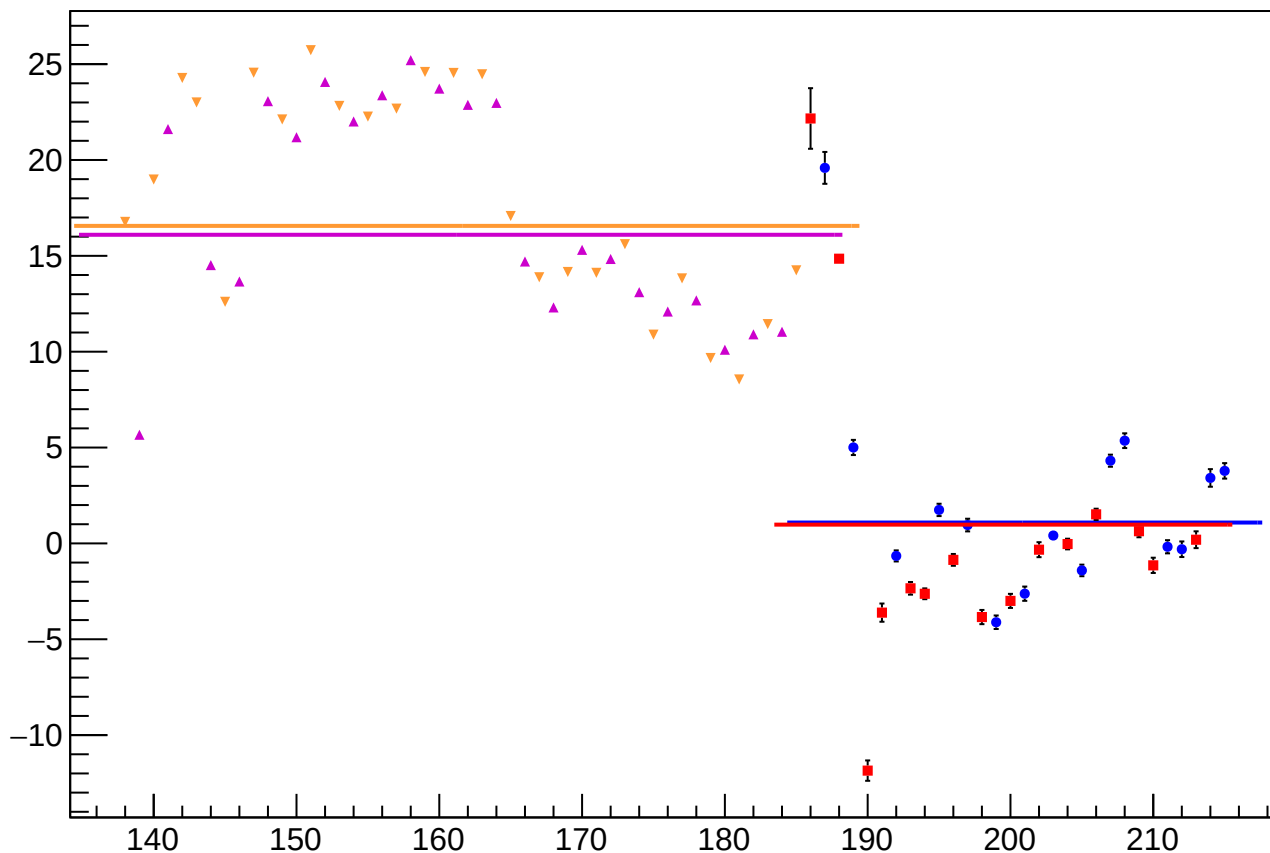
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.415 $\pm$ 0.054 χ^2/NDF : 1279.1/14
 Left Out: -4.748 $\pm$ 0.026 χ^2/NDF :13289.8/24
 Right Out: -5.880 $\pm$ 0.051 χ^2/NDF : 1678.4/14
 Left In: -4.753 $\pm$ 0.026 χ^2/NDF :14119.2/22

Left: -4.751 $\pm$ 0.018 χ^2/NDF : 27409.0/47
 Right: -5.664 $\pm$ 0.037 χ^2/NDF : 2996.6/29
 In: -4.877 $\pm$ 0.024 χ^2/NDF :15518.5/37
 Out: -4.982 $\pm$ 0.023 χ^2/NDF :15364.7/39
 All: -4.931 $\pm$ 0.016 χ^2/NDF : 30893.3/77

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.088 ± 0.091 $\chi^2/\text{NDF}: 1350.1/14$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 0.979 ± 0.089 $\chi^2/\text{NDF}: 5020.0/14$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

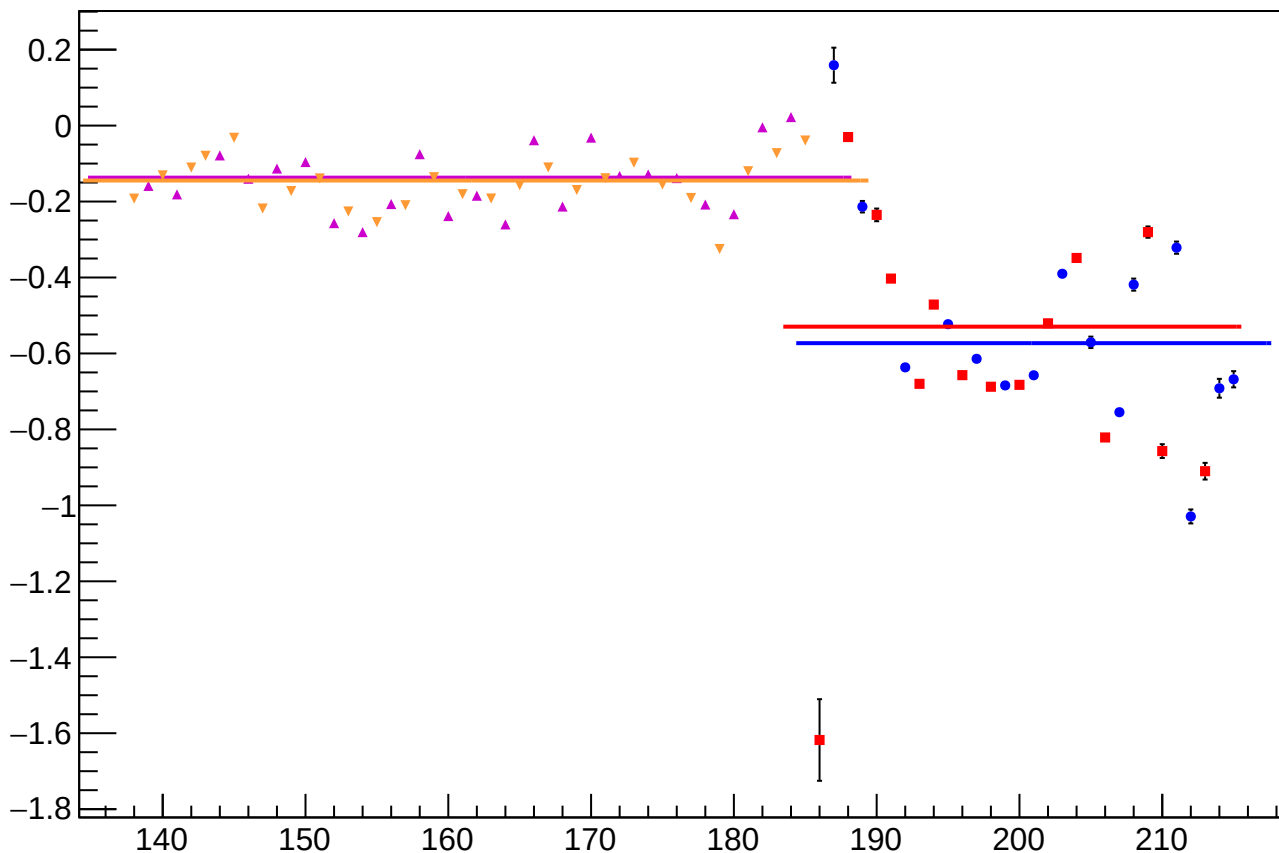
Right: 1.032 ± 0.064 $\chi^2/\text{NDF}: 6370.8/29$

In: 15.148 ± 0.023 $\chi^2/\text{NDF}: 69405.2/37$

Out: 15.576 ± 0.022 $\chi^2/\text{NDF}: 87569.4/39$

All: 15.366 ± 0.016 $\chi^2/\text{NDF}: 157154.5/77$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.573 ± 0.003 χ^2/NDF : 2682.9/14

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.529 ± 0.003 χ^2/NDF : 5485.4/14

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

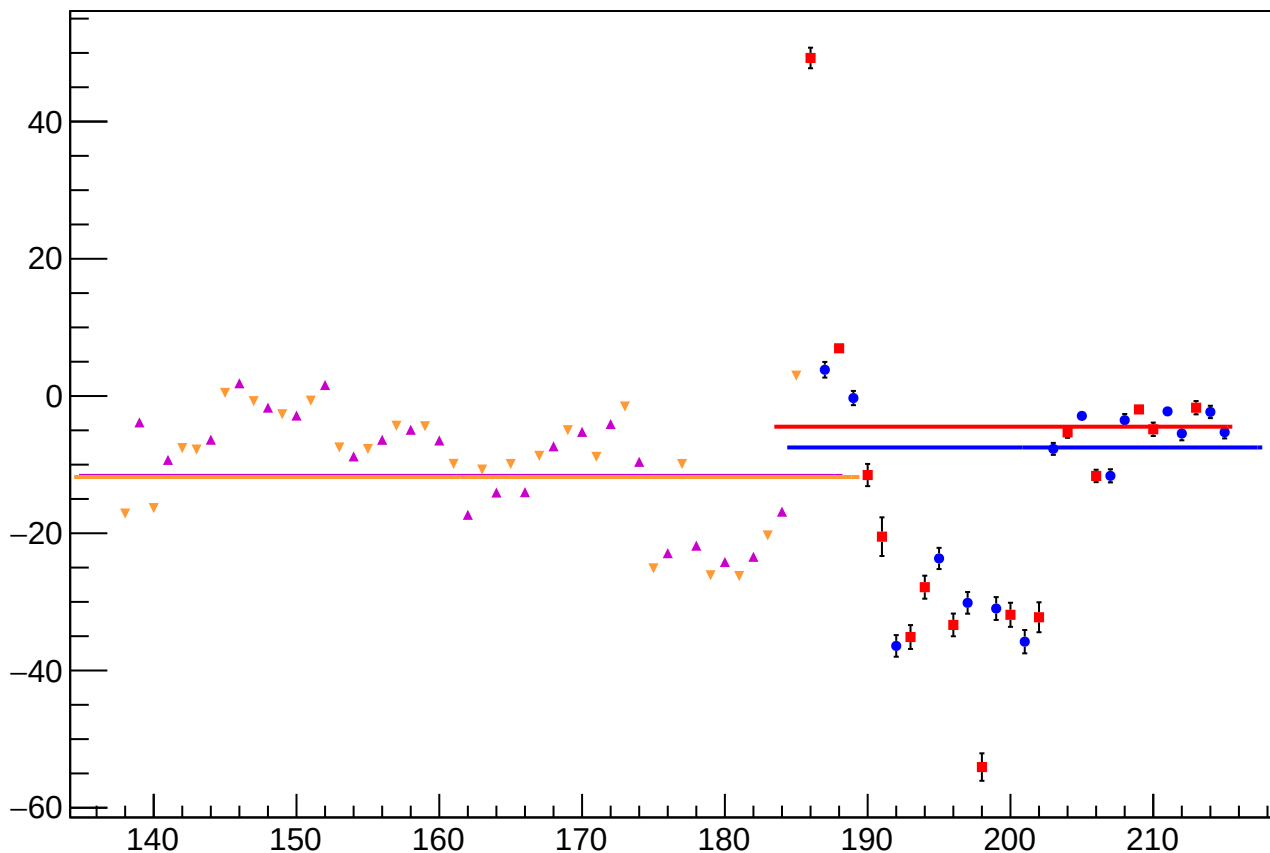
Right: -0.550 ± 0.002 χ^2/NDF : 8260.7/29

In: -0.179 ± 0.001 χ^2/NDF : 23942.4/37

Out: -0.184 ± 0.001 χ^2/NDF : 23053.6/39

All: -0.182 ± 0.001 χ^2/NDF : 47011.5/77

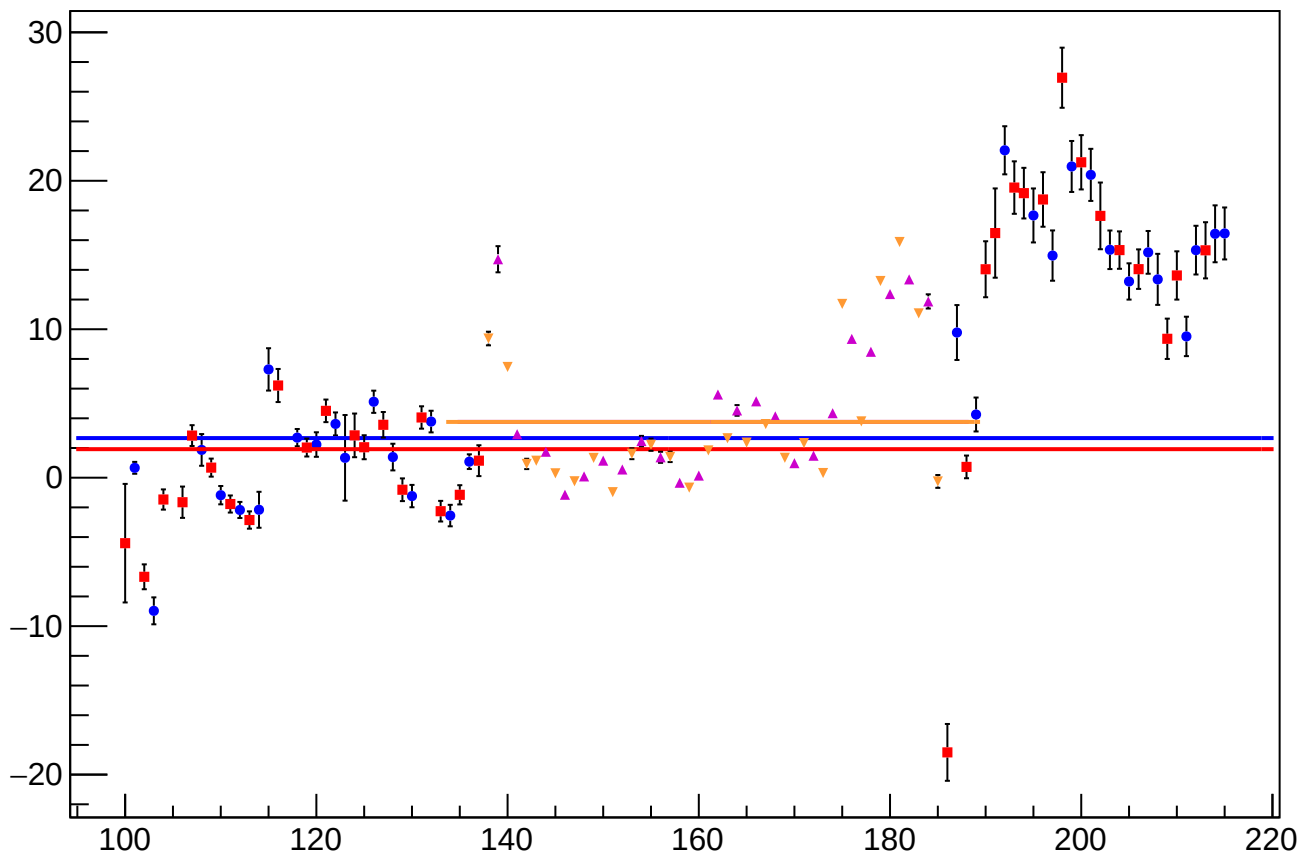
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.496 ± 0.262 $\chi^2/\text{NDF}: 1451.4/14$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.470 ± 0.276 $\chi^2/\text{NDF}: 3701.6/14$
 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: -6.065 ± 0.190 $\chi^2/\text{NDF}: 5216.2/29$
 In: -11.353 ± 0.069 $\chi^2/\text{NDF}: 15806.3/37$
 Out: -11.356 ± 0.068 $\chi^2/\text{NDF}: 21670.7/39$
 All: -11.355 ± 0.048 $\chi^2/\text{NDF}: 37477.0/77$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.668 +/- 0.157 χ^2/NDF : 1421.5/31

Left Out: 3.757 +/- 0.056 χ^2/NDF : 7450.7/24

Right Out: 1.922 +/- 0.160 χ^2/NDF : 1476.5/33

Left In: 3.757 +/- 0.057 χ^2/NDF : 5629.4/22

Left: 3.757 +/- 0.040 χ^2/NDF : 13080.0/47

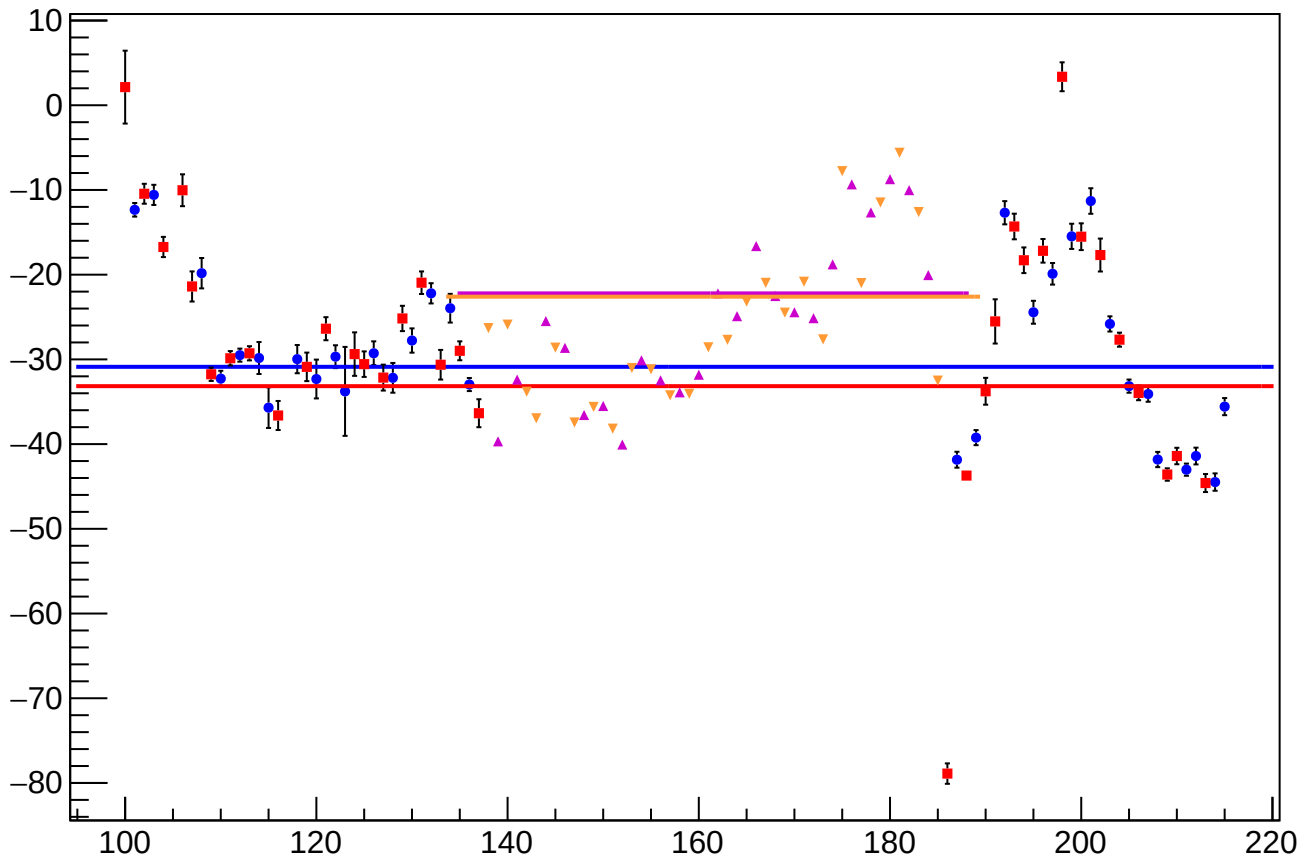
Right: 2.302 +/- 0.112 χ^2/NDF : 2909.1/65

In: 3.631 +/- 0.053 χ^2/NDF : 7093.7/54

Out: 3.559 +/- 0.052 χ^2/NDF : 9044.8/58

All: 3.595 +/- 0.037 χ^2/NDF : 16139.4/113

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -30.877 ± 0.195 $\chi^2/\text{NDF}: 2528.2/31$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -33.160 ± 0.193 $\chi^2/\text{NDF}: 4539.1/33$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

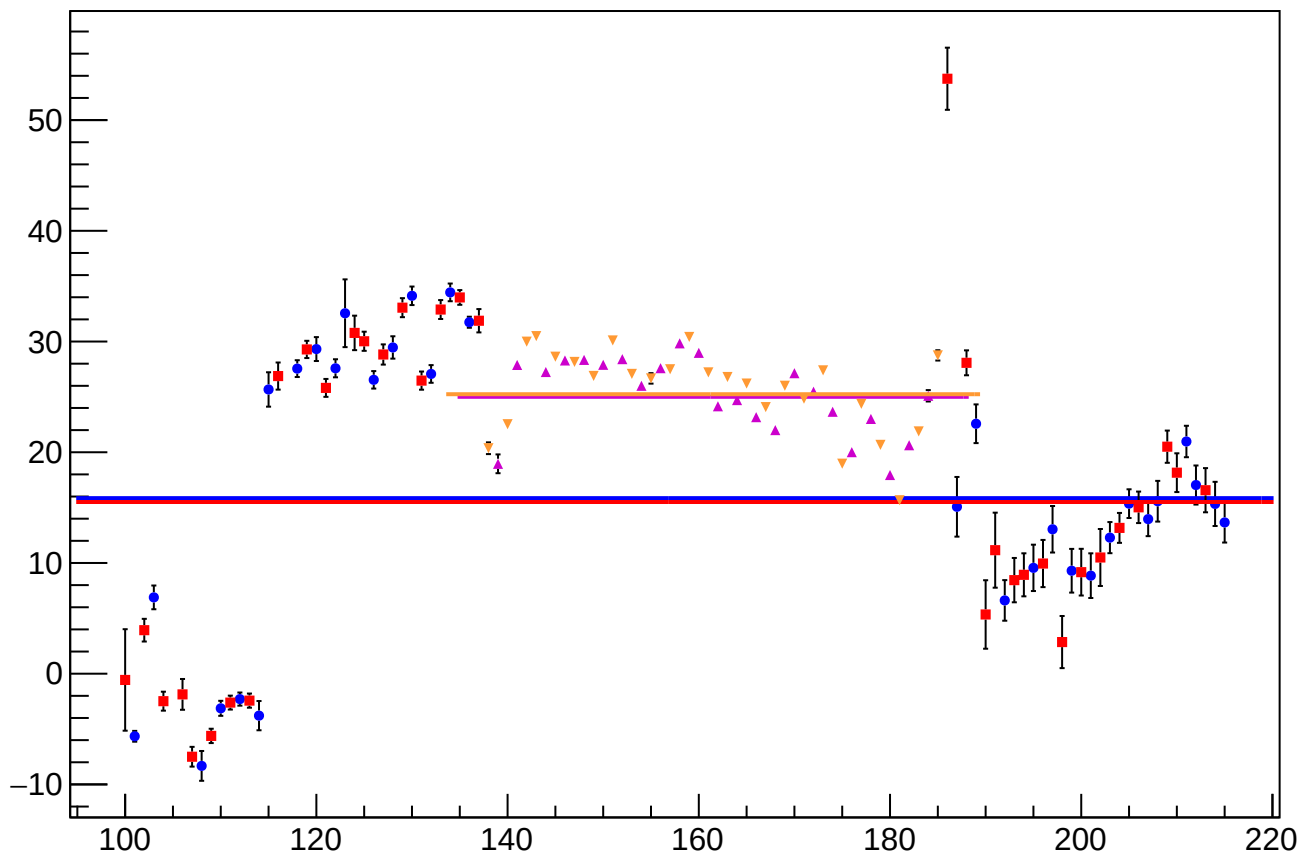
Right: -32.031 ± 0.137 $\chi^2/\text{NDF}: 7136.4/65$

In: -23.237 ± 0.067 $\chi^2/\text{NDF}: 21893.8/54$

Out: -23.846 ± 0.066 $\chi^2/\text{NDF}: 27110.2/58$

All: -23.545 ± 0.047 $\chi^2/\text{NDF}: 49045.6/113$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.856+/-0.177 χ^2/NDF : 7641.2/31

Left Out: 25.242+/-0.063 χ^2/NDF : 3786.5/24

Right Out: 15.507+/-0.182 χ^2/NDF : 7675.6/33

Left In: 25.009+/-0.064 χ^2/NDF : 2722.0/22

Left: 25.128+/-0.045 χ^2/NDF : 6515.2/47

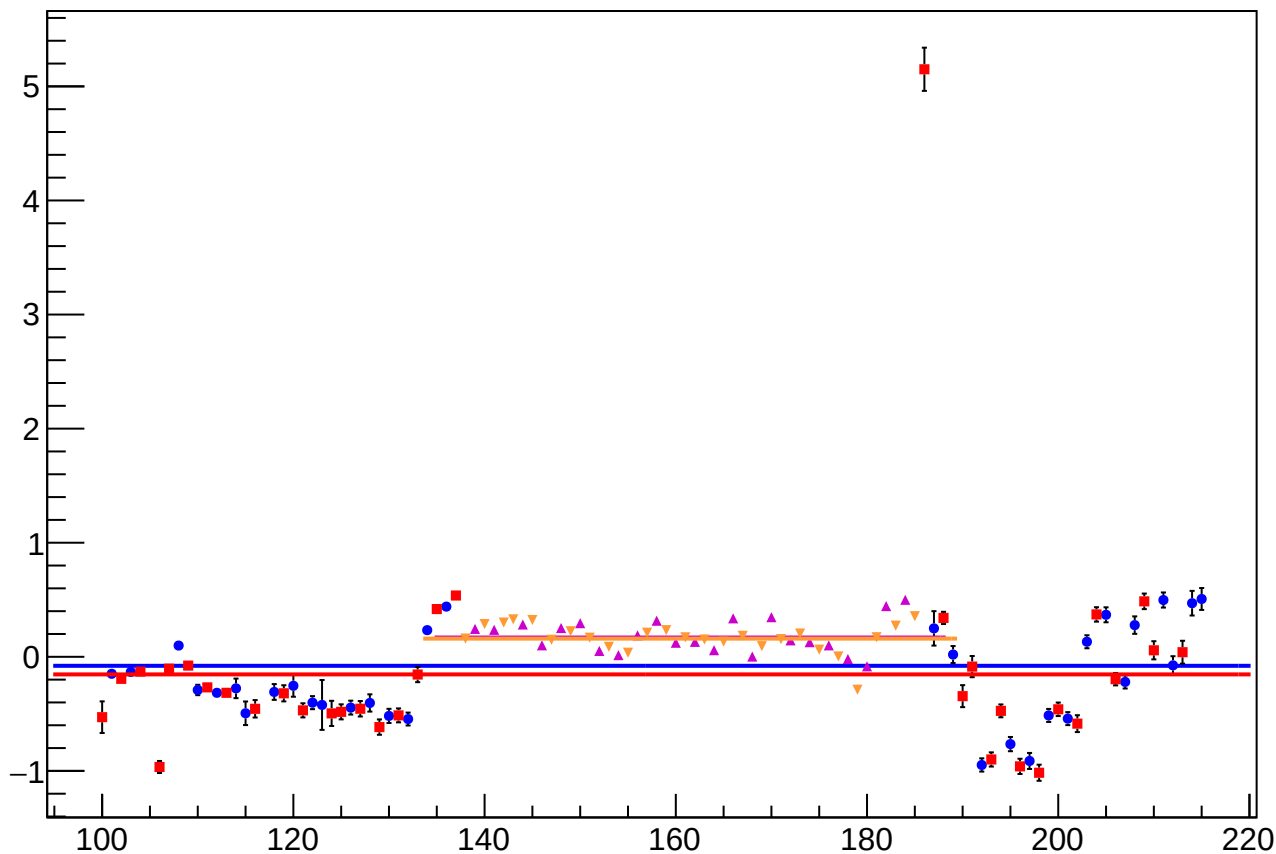
Right: 15.686+/-0.127 χ^2/NDF : 15318.7/65

In: 23.955+/-0.060 χ^2/NDF : 12729.7/54

Out: 24.212+/-0.059 χ^2/NDF : 14018.3/58

All: 24.085+/-0.042 χ^2/NDF : 26757.3/113

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.079 ± 0.009 χ^2/NDF : 1873.8/31

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.154 ± 0.009 χ^2/NDF : 2738.5/33

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

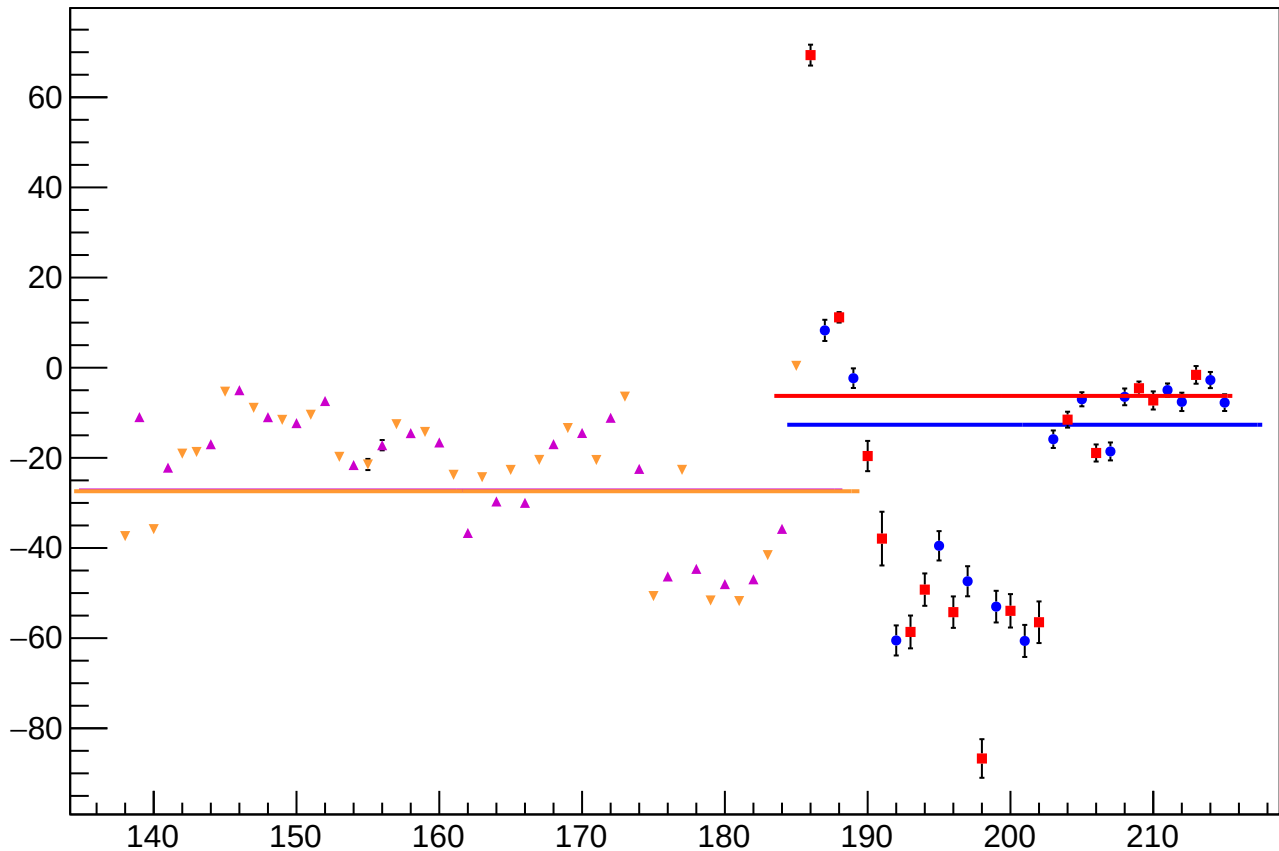
Right: -0.116 ± 0.006 χ^2/NDF : 4647.9/65

In: 0.145 ± 0.003 χ^2/NDF : 4988.3/54

Out: 0.130 ± 0.003 χ^2/NDF : 5710.3/58

All: 0.138 ± 0.002 χ^2/NDF : 10712.8/113

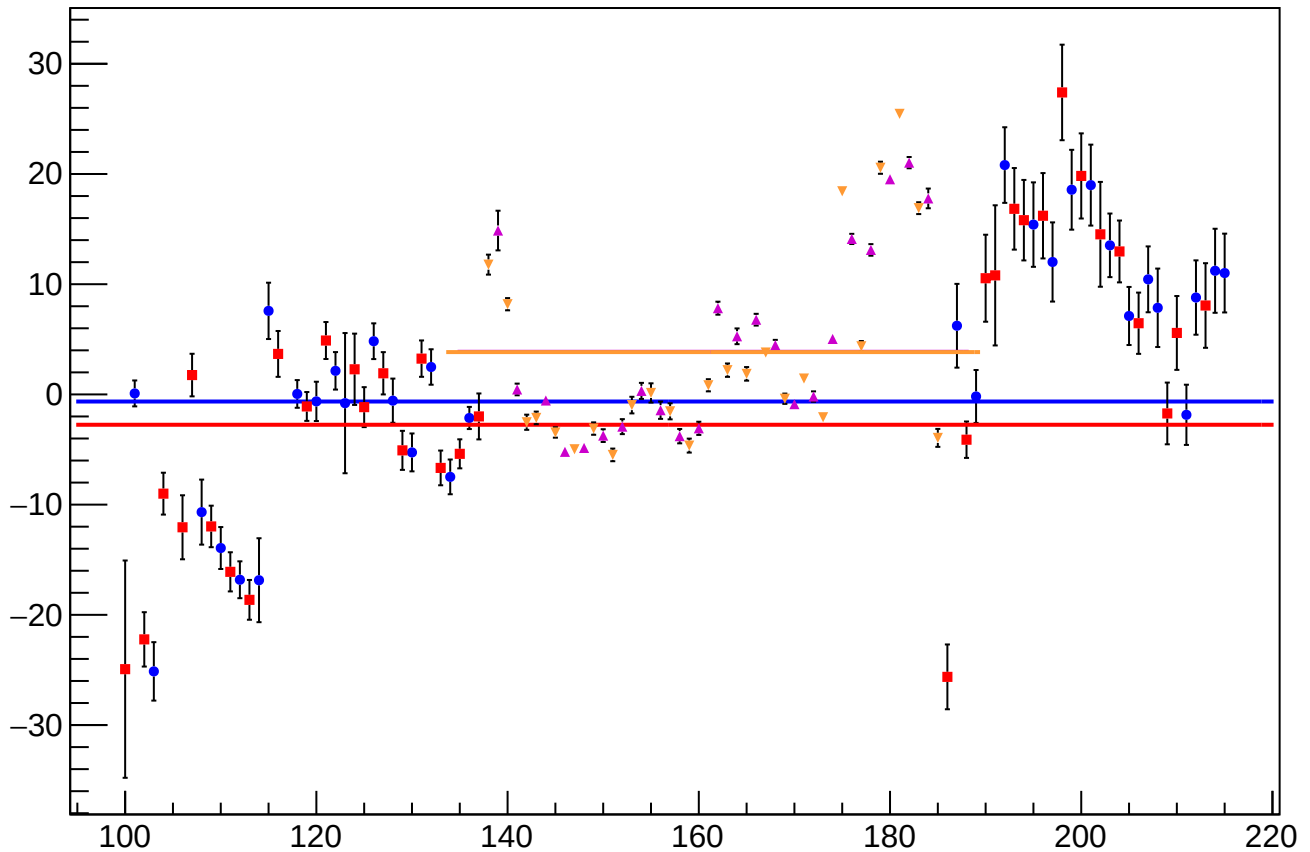
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.657 ± 0.547 $\chi^2/\text{NDF}: 904.5/14$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.256 ± 0.576 $\chi^2/\text{NDF}: 2569.9/14$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -9.624 ± 0.397 $\chi^2/\text{NDF}: 3539.3/29$
 In: -26.353 ± 0.135 $\chi^2/\text{NDF}: 12878.0/37$
 Out: -26.279 ± 0.133 $\chi^2/\text{NDF}: 18695.9/39$
 All: -26.315 ± 0.095 $\chi^2/\text{NDF}: 31574.1/77$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.644 ± 0.369 $\chi^2/\text{NDF}: 524.2/31$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.753 ± 0.379 $\chi^2/\text{NDF}: 625.4/33$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

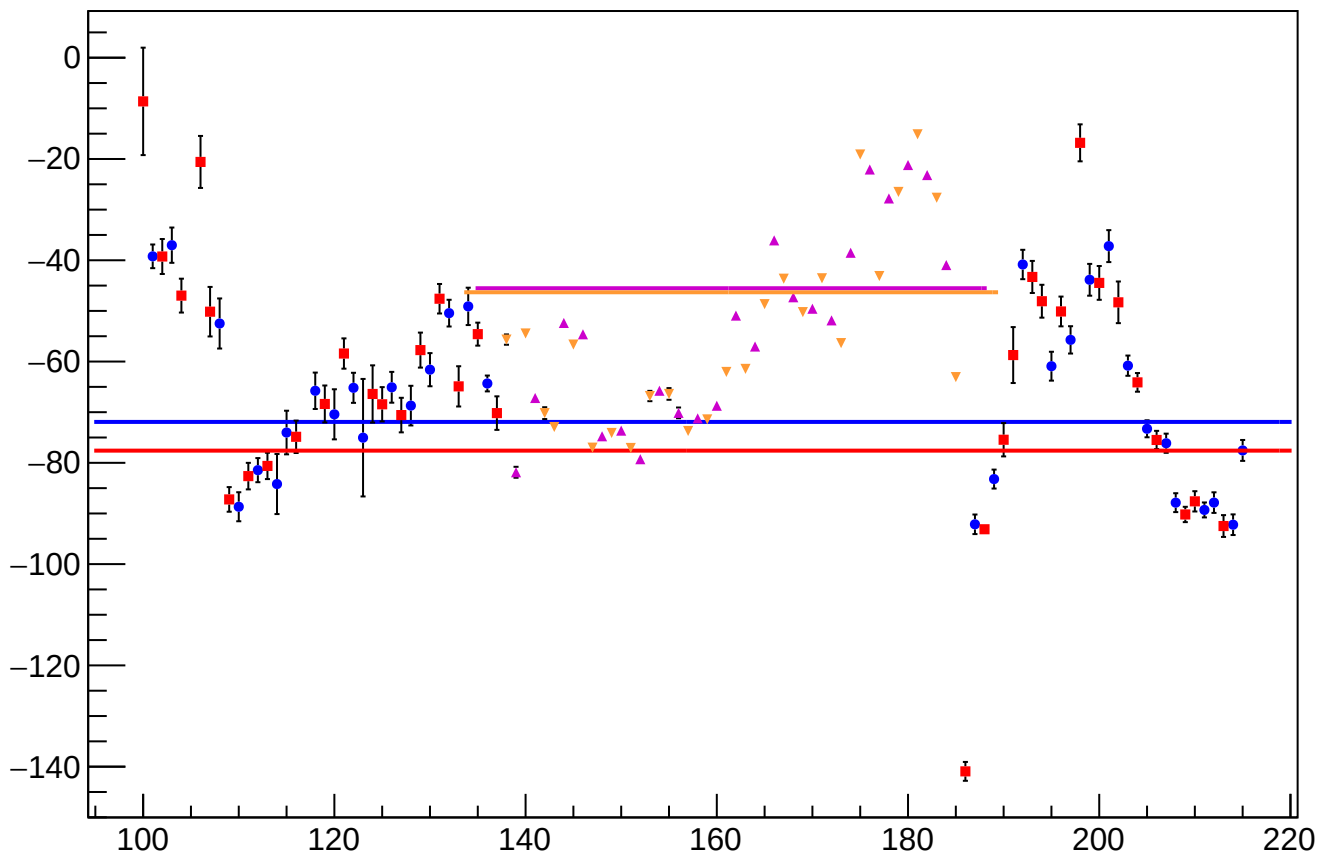
Right: -1.671 ± 0.264 $\chi^2/\text{NDF}: 1165.6/65$

In: 3.490 ± 0.106 $\chi^2/\text{NDF}: 6085.3/54$

Out: 3.335 ± 0.105 $\chi^2/\text{NDF}: 7844.5/58$

All: 3.411 ± 0.075 $\chi^2/\text{NDF}: 13930.9/113$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.921 ± 0.434 χ^2/NDF : 1446.6/31

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.591 ± 0.432 χ^2/NDF : 3098.9/33

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

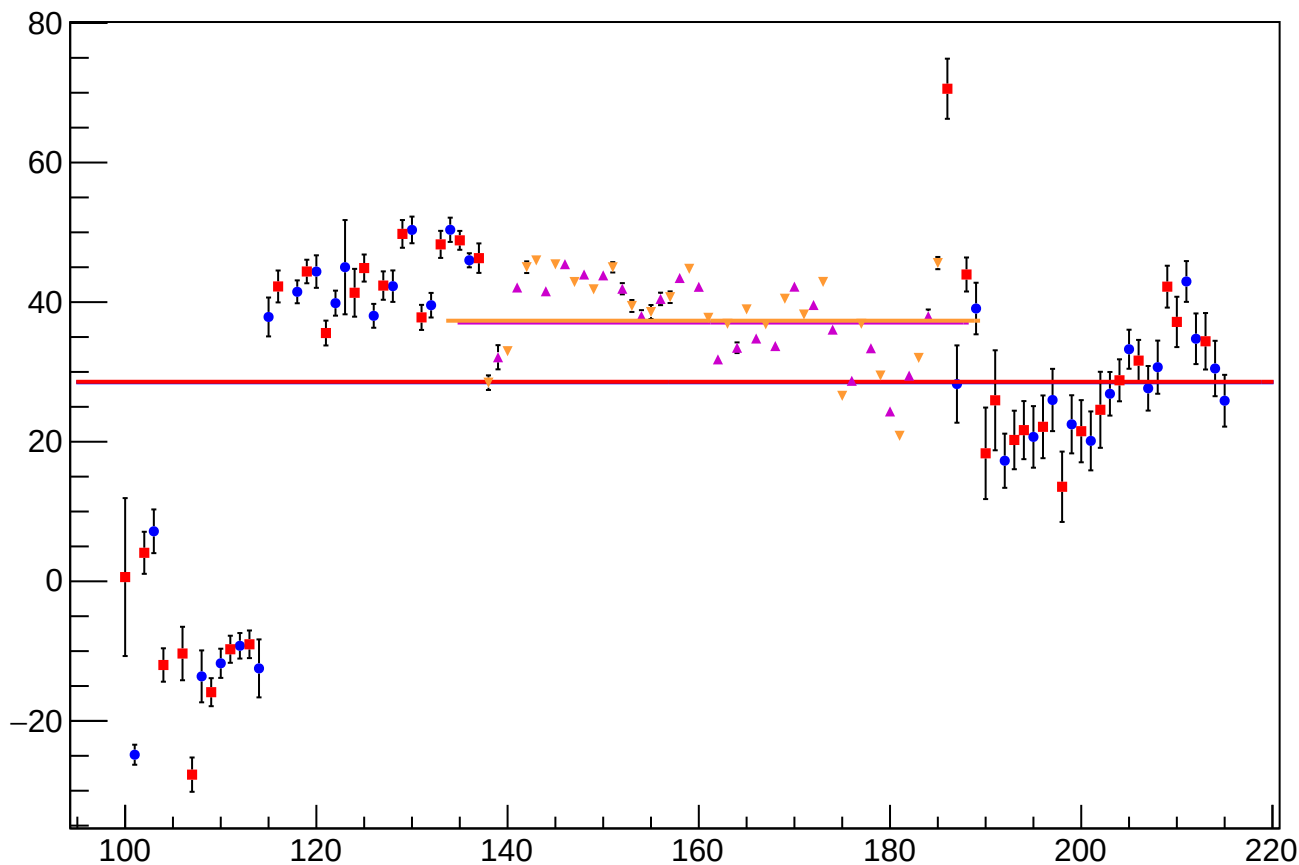
Right: -74.771 ± 0.306 χ^2/NDF : 4631.1/65

In: -47.998 ± 0.133 χ^2/NDF : 22319.0/54

Out: -49.210 ± 0.131 χ^2/NDF : 27987.0/58

All: -48.611 ± 0.093 χ^2/NDF : 50348.0/113

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.517 ± 0.414 $\chi^2/\text{NDF}: 3369.0/31$

Left Out: 37.340 ± 0.123 $\chi^2/\text{NDF}: 3149.1/24$

Right Out: 28.590 ± 0.431 $\chi^2/\text{NDF}: 3225.1/33$

Left In: 37.074 ± 0.125 $\chi^2/\text{NDF}: 2397.3/22$

Left: 37.209 ± 0.088 $\chi^2/\text{NDF}: 5548.7/47$

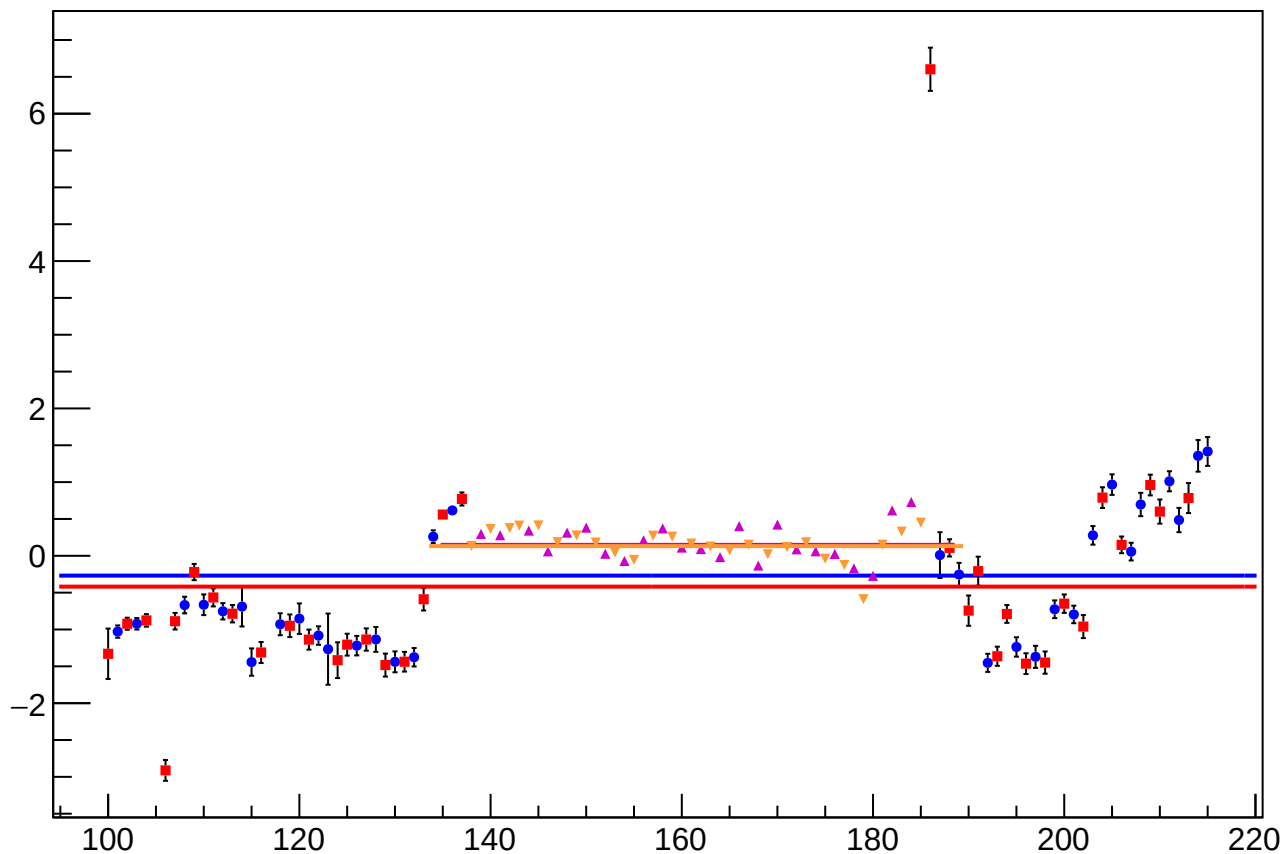
Right: 28.552 ± 0.299 $\chi^2/\text{NDF}: 6594.1/65$

In: 36.358 ± 0.120 $\chi^2/\text{NDF}: 6157.0/54$

Out: 36.684 ± 0.118 $\chi^2/\text{NDF}: 6754.7/58$

All: 36.523 ± 0.084 $\chi^2/\text{NDF}: 12915.4/113$

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.269 ± 0.021 χ^2/NDF : 1632.7/31

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.418 ± 0.021 χ^2/NDF : 2217.2/33

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

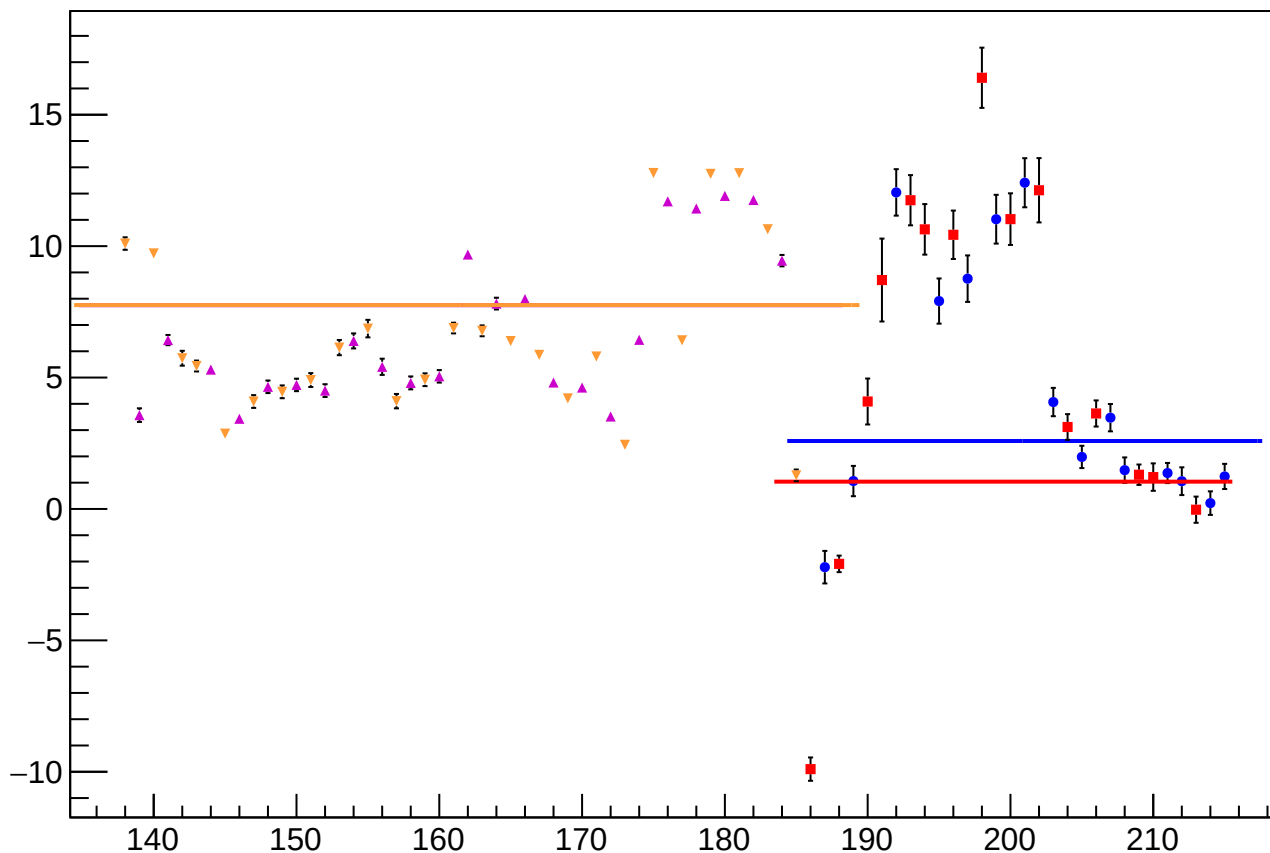
Right: -0.342 ± 0.015 χ^2/NDF : 3875.1/65

In: 0.119 ± 0.006 χ^2/NDF : 3812.7/54

Out: 0.095 ± 0.005 χ^2/NDF : 4265.8/58

All: 0.107 ± 0.004 χ^2/NDF : 8087.8/113

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.586 ± 0.144 $\chi^2/\text{NDF}: 534.0/14$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.039 ± 0.149 $\chi^2/\text{NDF}: 1486.2/14$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

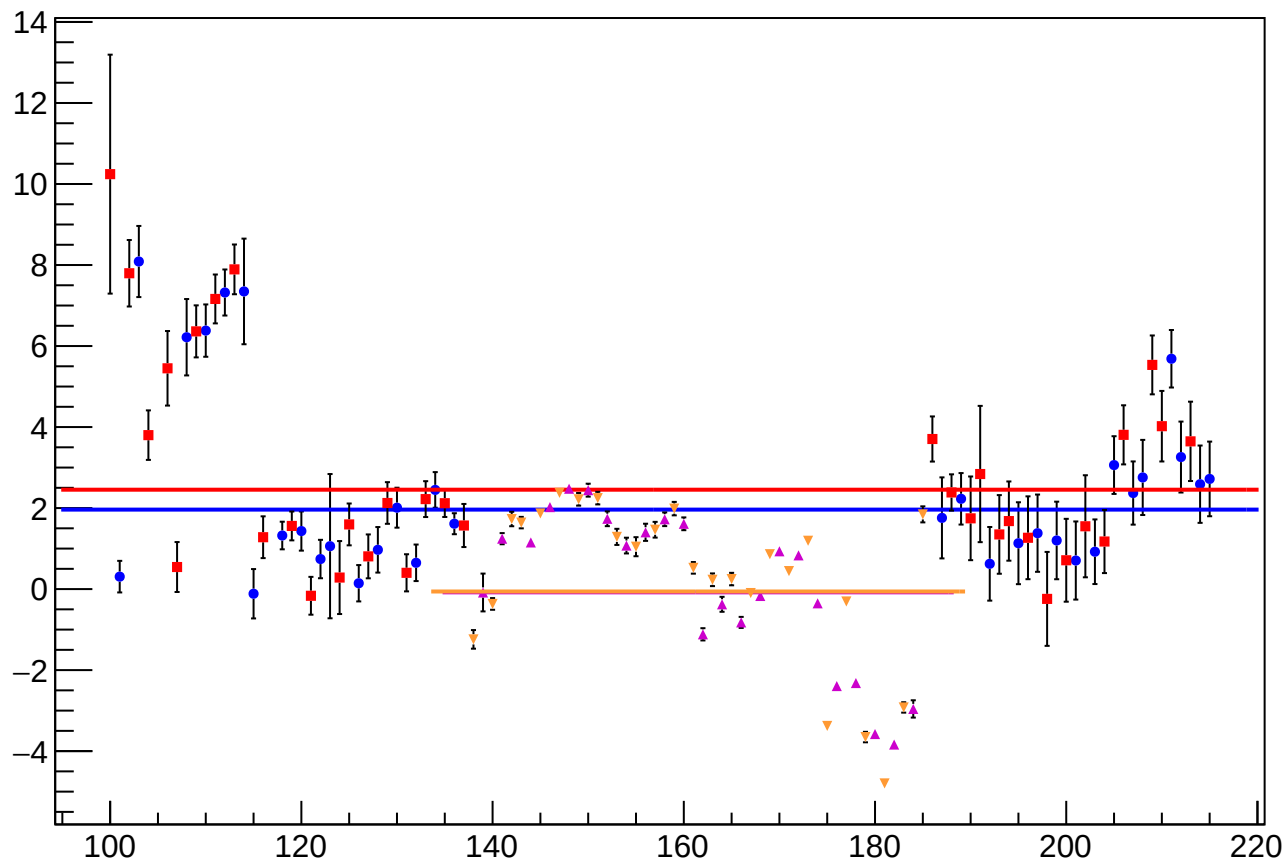
Right: 1.839 ± 0.103 $\chi^2/\text{NDF}: 2076.3/29$

In: 7.462 ± 0.034 $\chi^2/\text{NDF}: 10101.7/37$

Out: 7.416 ± 0.033 $\chi^2/\text{NDF}: 15155.1/39$

All: 7.439 ± 0.024 $\chi^2/\text{NDF}: 25257.7/77$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.962 ± 0.103 $\chi^2/\text{NDF}: 335.8/31$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.453 ± 0.106 $\chi^2/\text{NDF}: 382.5/33$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

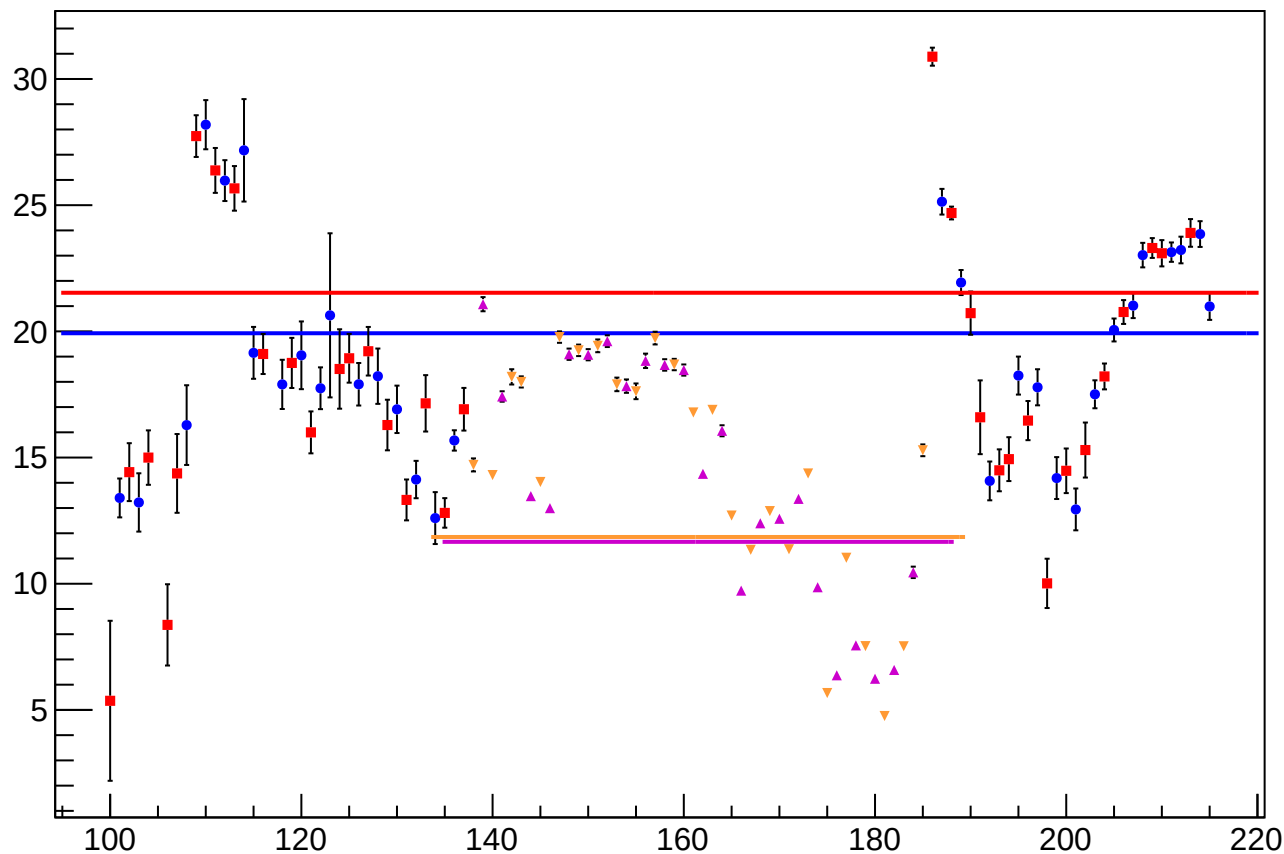
Right: 2.202 ± 0.074 $\chi^2/\text{NDF}: 729.3/65$

In: 0.062 ± 0.027 $\chi^2/\text{NDF}: 5678.3/54$

Out: 0.102 ± 0.027 $\chi^2/\text{NDF}: 6977.5/58$

All: 0.082 ± 0.019 $\chi^2/\text{NDF}: 12656.9/113$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.925 $\pm$ 0.117 χ^2 /NDF: 1054.3/31

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.530 $\pm$ 0.115 χ^2 /NDF: 2126.3/33

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

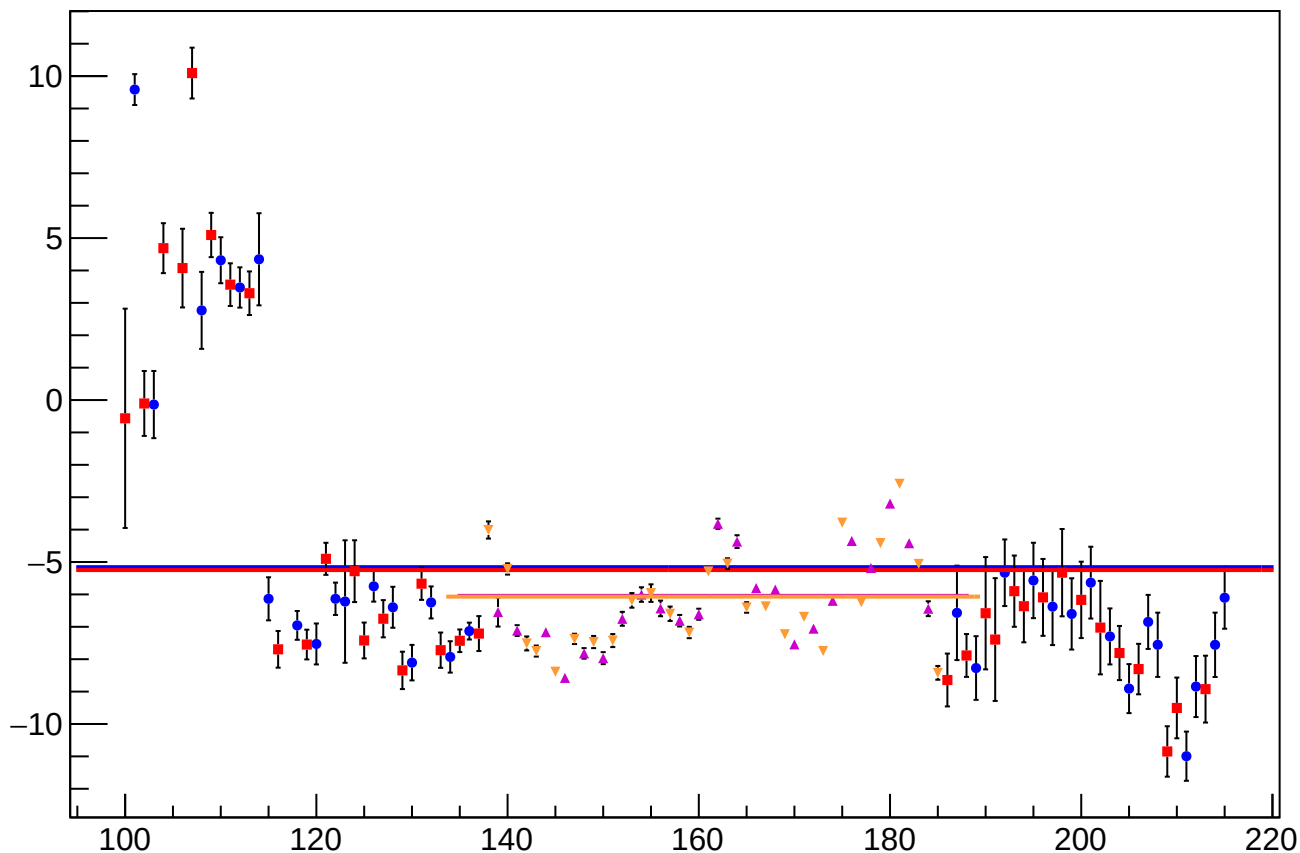
Right: 20.743 $\pm$ 0.082 χ^2 /NDF: 3275.7/65

In: 12.341 $\pm$ 0.034 χ^2 /NDF:22309.7/54

Out: 12.657 $\pm$ 0.033 χ^2 /NDF:27746.3/58

All: 12.501 $\pm$ 0.024 χ^2 /NDF: 50100.7/113

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.159 ± 0.116 $\chi^2/\text{NDF}: 1744.4/31$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.249 ± 0.121 $\chi^2/\text{NDF}: 1522.5/33$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

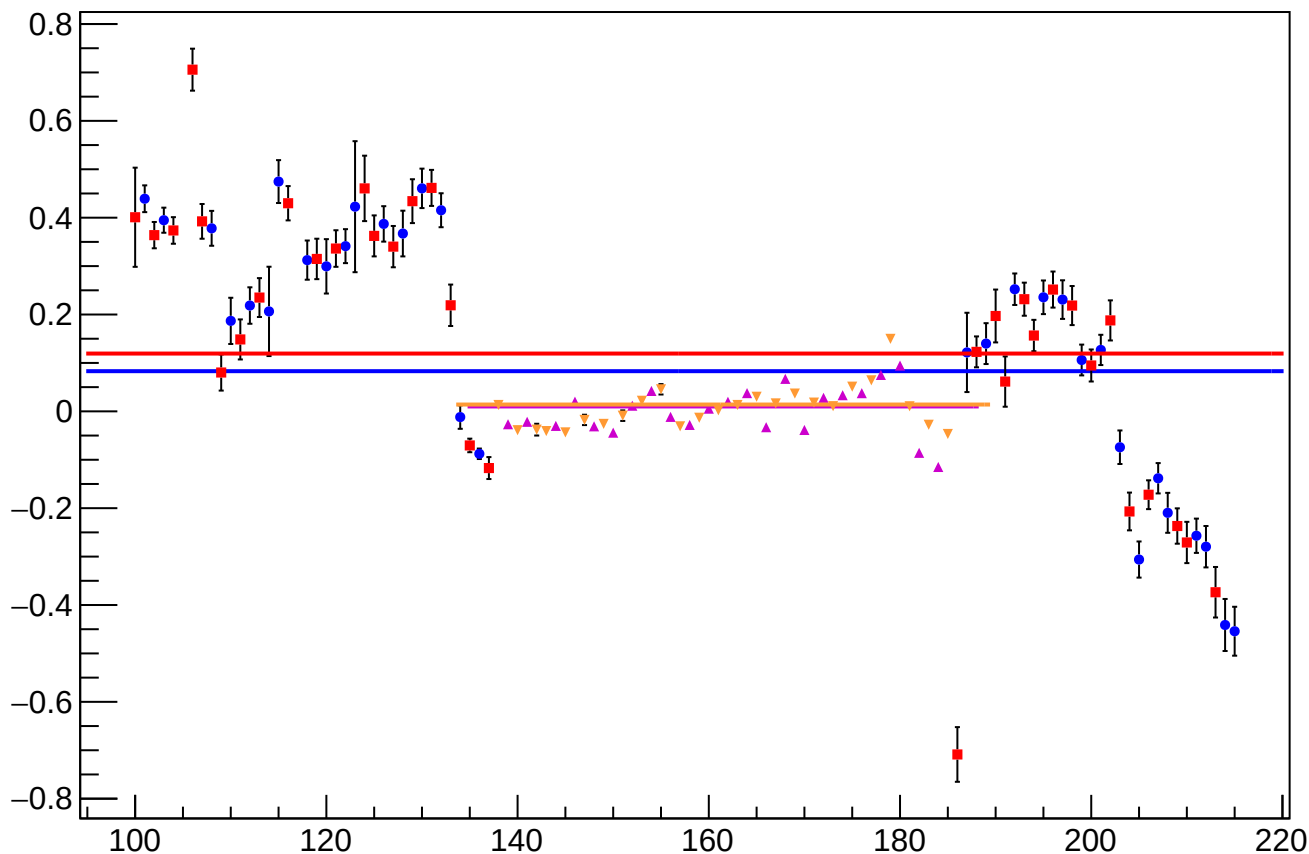
Right: -5.202 ± 0.084 $\chi^2/\text{NDF}: 3267.2/65$

In: -5.983 ± 0.031 $\chi^2/\text{NDF}: 4092.7/54$

Out: -6.017 ± 0.030 $\chi^2/\text{NDF}: 4237.3/58$

All: -6.001 ± 0.021 $\chi^2/\text{NDF}: 8330.7/113$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.083 ± 0.006 χ^2/NDF : 1794.2/31

Left Out: 0.014 ± 0.001 χ^2/NDF : 956.2/24

Right Out: 0.119 ± 0.006 χ^2/NDF : 1758.5/33

Left In: 0.010 ± 0.001 χ^2/NDF : 1216.1/22

Left: 0.012 ± 0.001 χ^2/NDF : 2176.2/47

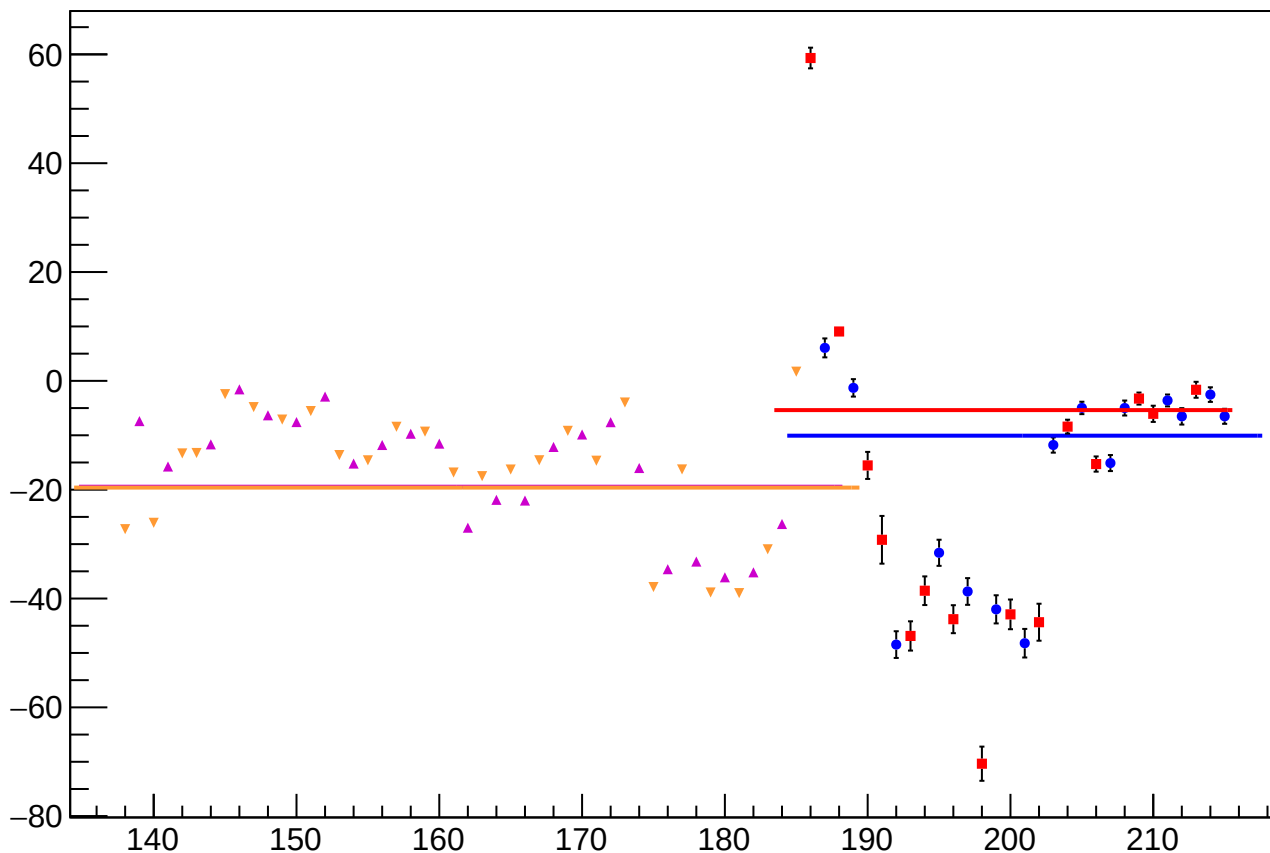
Right: 0.101 ± 0.004 χ^2/NDF : 3572.1/65

In: 0.014 ± 0.001 χ^2/NDF : 3161.8/54

Out: 0.020 ± 0.001 χ^2/NDF : 3011.3/58

All: 0.017 ± 0.001 χ^2/NDF : 6180.4/113

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.073 ± 0.404 $\chi^2/\text{NDF}: 1065.3/14$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.373 ± 0.427 $\chi^2/\text{NDF}: 2930.5/14$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

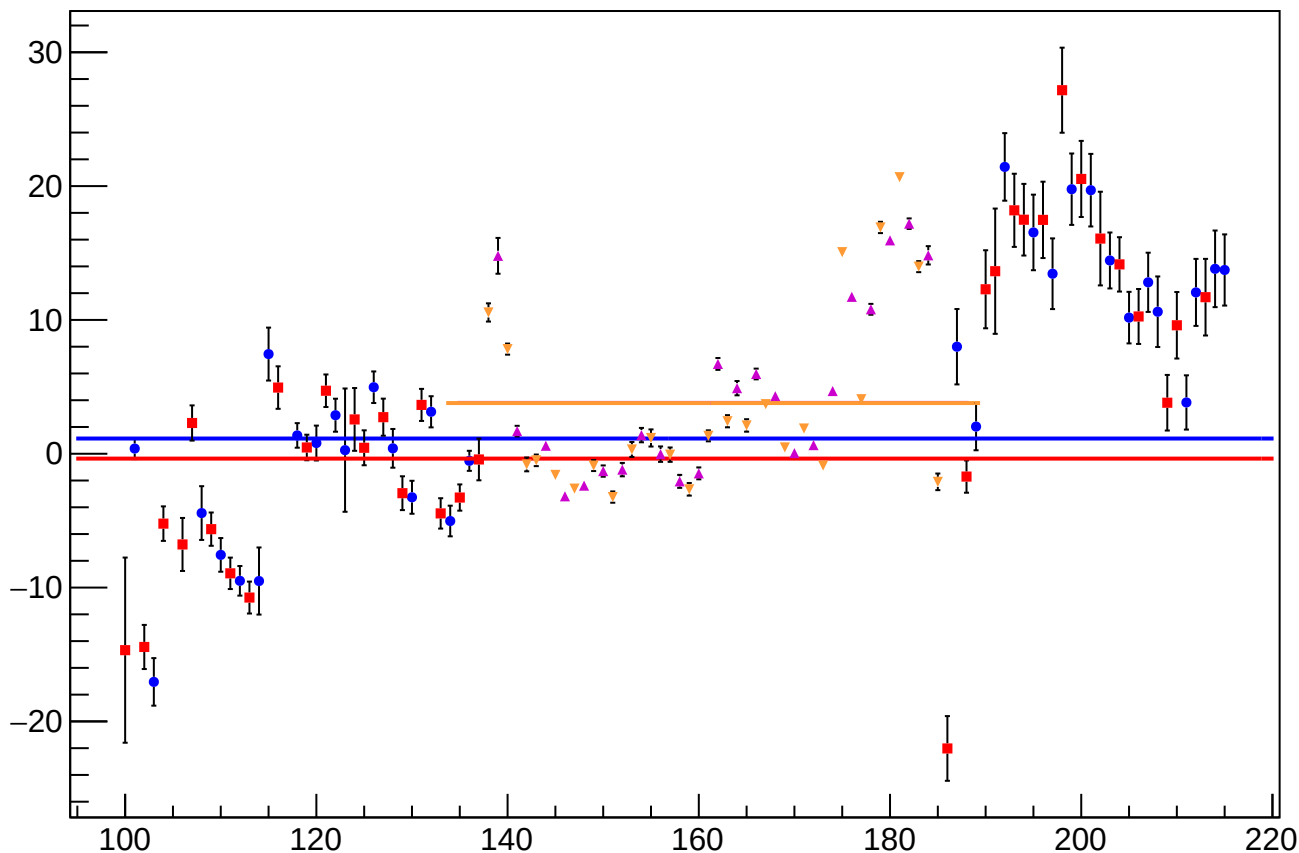
Right: -7.852 ± 0.293 $\chi^2/\text{NDF}: 4059.9/29$

In: -18.856 ± 0.102 $\chi^2/\text{NDF}: 13853.5/37$

Out: -18.825 ± 0.100 $\chi^2/\text{NDF}: 19744.4/39$

All: -18.840 ± 0.071 $\chi^2/\text{NDF}: 33597.9/77$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.138 $\pm$ 0.264 χ^2 /NDF: 728.4/31

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF: 7150.5/24

Right Out: -0.362 $\pm$ 0.271 χ^2 /NDF: 832.2/33

Left In: 3.799 $\pm$ 0.084 χ^2 /NDF: 5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2 /NDF: 12667.5/47

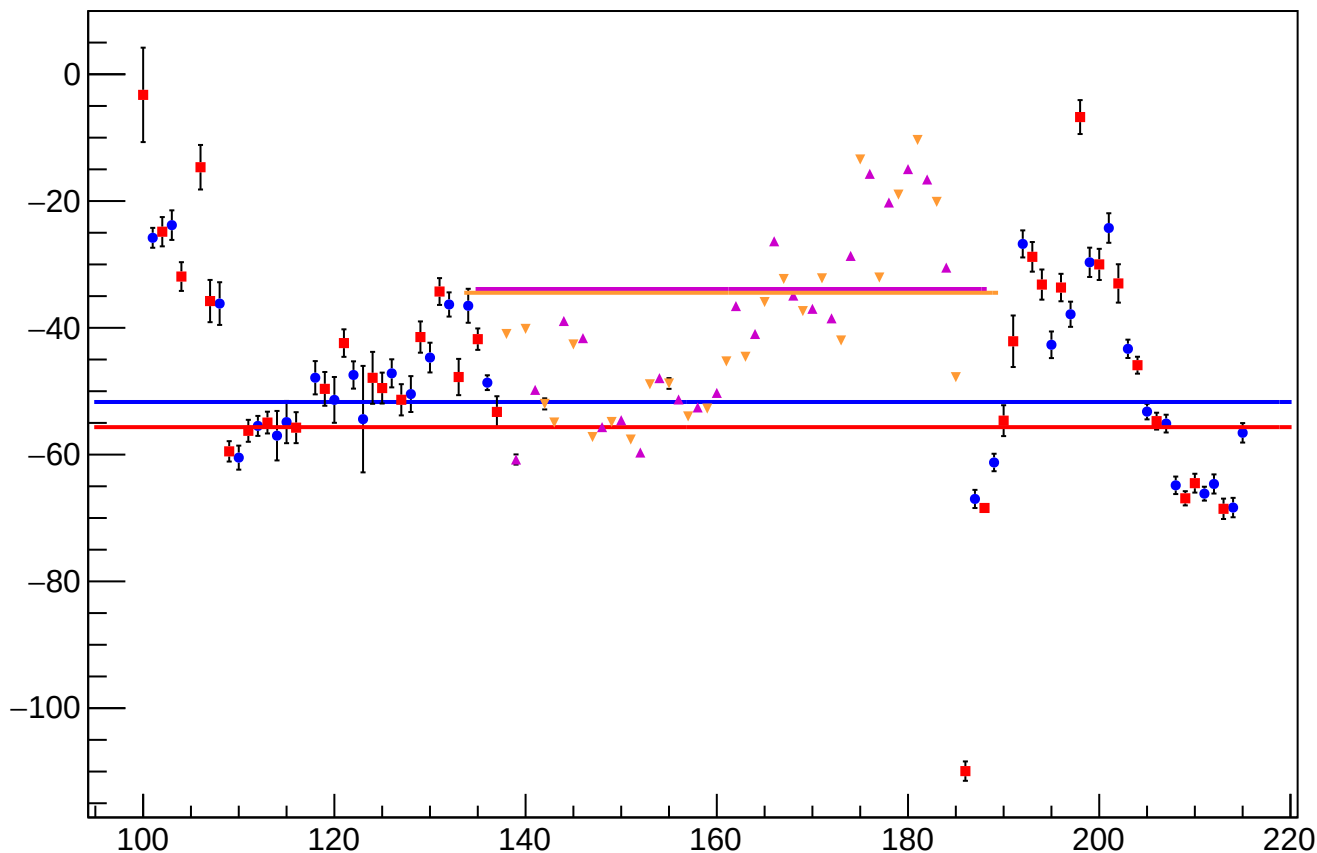
Right: 0.406 $\pm$ 0.189 χ^2 /NDF: 1576.3/65

In: 3.557 $\pm$ 0.080 χ^2 /NDF: 6337.6/54

Out: 3.439 $\pm$ 0.079 χ^2 /NDF: 8197.7/58

All: 3.497 $\pm$ 0.056 χ^2 /NDF: 14536.4/113

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.700 ± 0.316 χ^2/NDF : 1692.6/31

Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24

Right Out: -55.667 ± 0.315 χ^2/NDF : 3480.4/33

Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

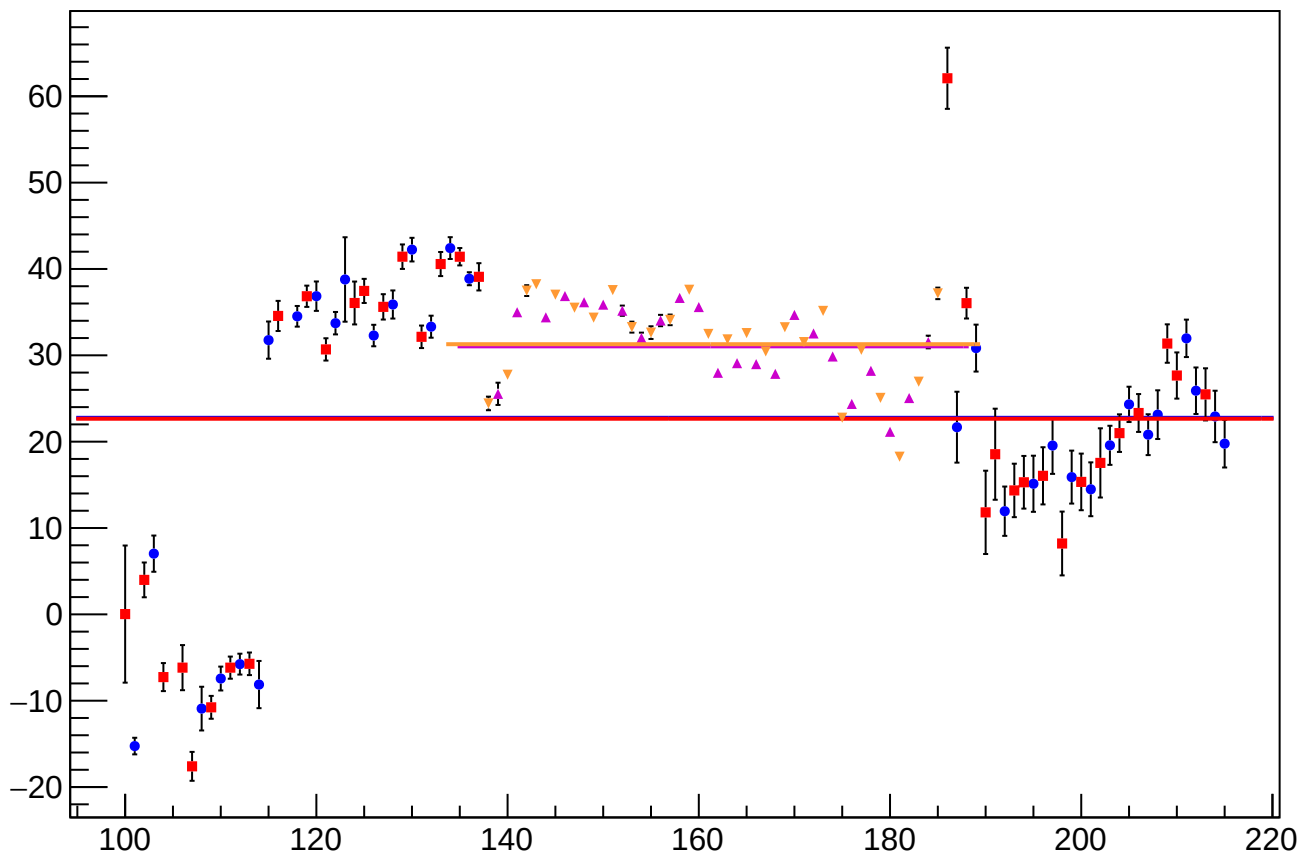
Right: -53.693 ± 0.223 χ^2/NDF : 5252.2/65

In: -35.655 ± 0.100 χ^2/NDF : 22194.2/54

Out: -36.558 ± 0.099 χ^2/NDF : 27771.1/58

All: -36.112 ± 0.070 χ^2/NDF : 50006.7/113

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.762 $\pm$ 0.297 χ^2 /NDF: 4383.0/31

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.656 $\pm$ 0.309 χ^2 /NDF: 4278.2/33

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

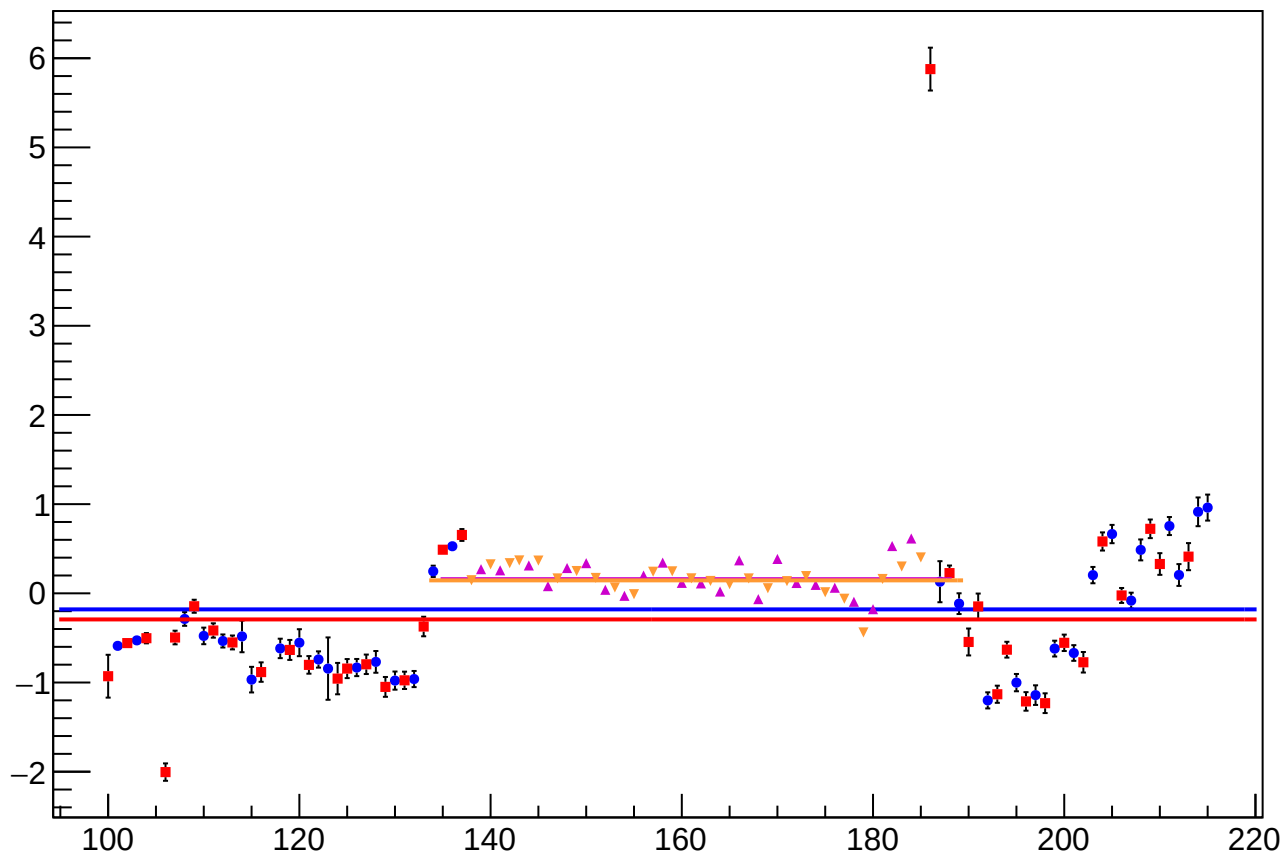
Right: 22.711 $\pm$ 0.214 χ^2 /NDF: 8661.2/65

In: 30.284 $\pm$ 0.090 χ^2 /NDF:7567.1/54

Out: 30.577 $\pm$ 0.089 χ^2 /NDF:8341.4/58

All: 30.433 $\pm$ 0.063 χ^2 /NDF: 15913.8/113

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.180 ± 0.015 χ^2/NDF : 1650.3/31

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.293 ± 0.015 χ^2/NDF : 2370.8/33

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

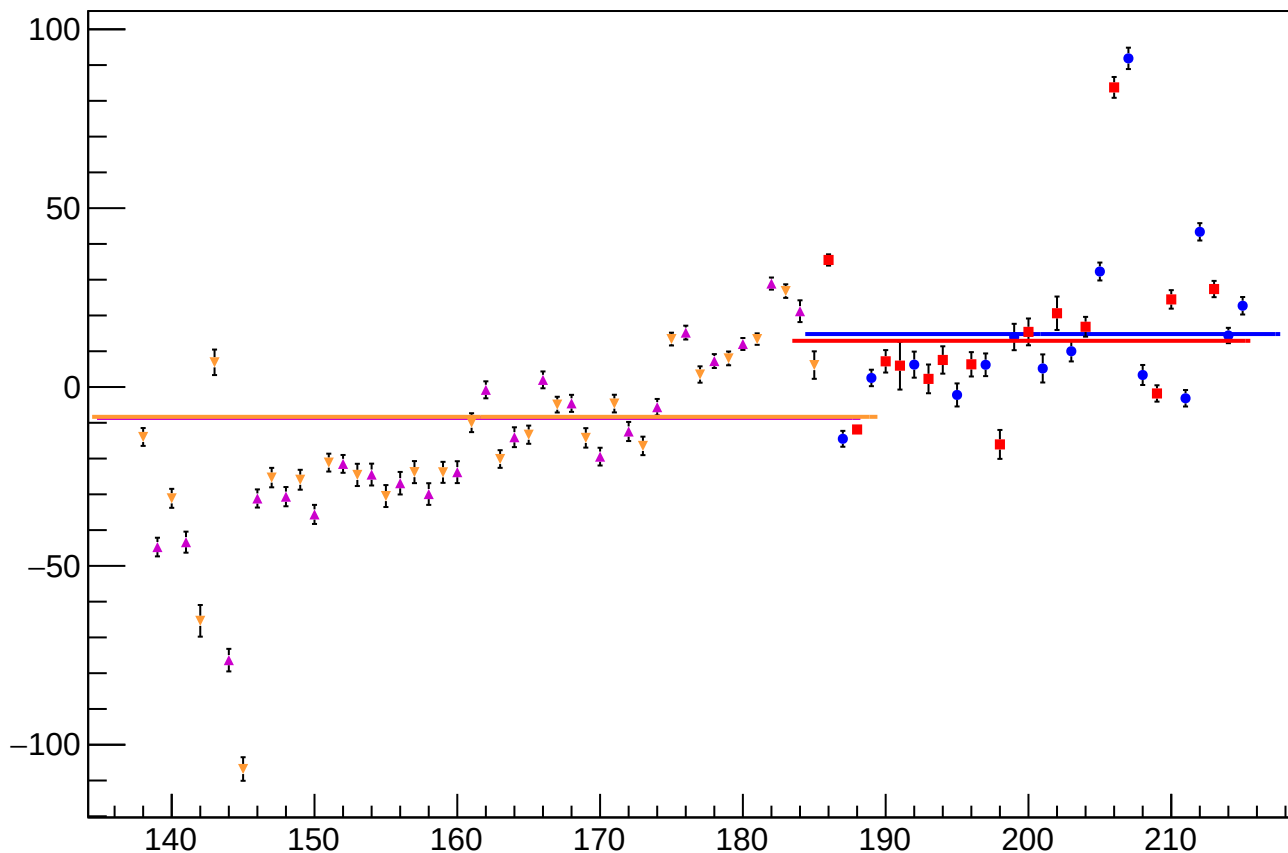
Right: -0.235 ± 0.011 χ^2/NDF : 4049.0/65

In: 0.133 ± 0.004 χ^2/NDF : 4135.6/54

Out: 0.114 ± 0.004 χ^2/NDF : 4717.3/58

All: 0.123 ± 0.003 χ^2/NDF : 8863.3/113

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.805 $\pm$ 0.696 χ^2 /NDF: 1192.5/14

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.918 $\pm$ 0.651 χ^2 /NDF: 1374.6/14

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

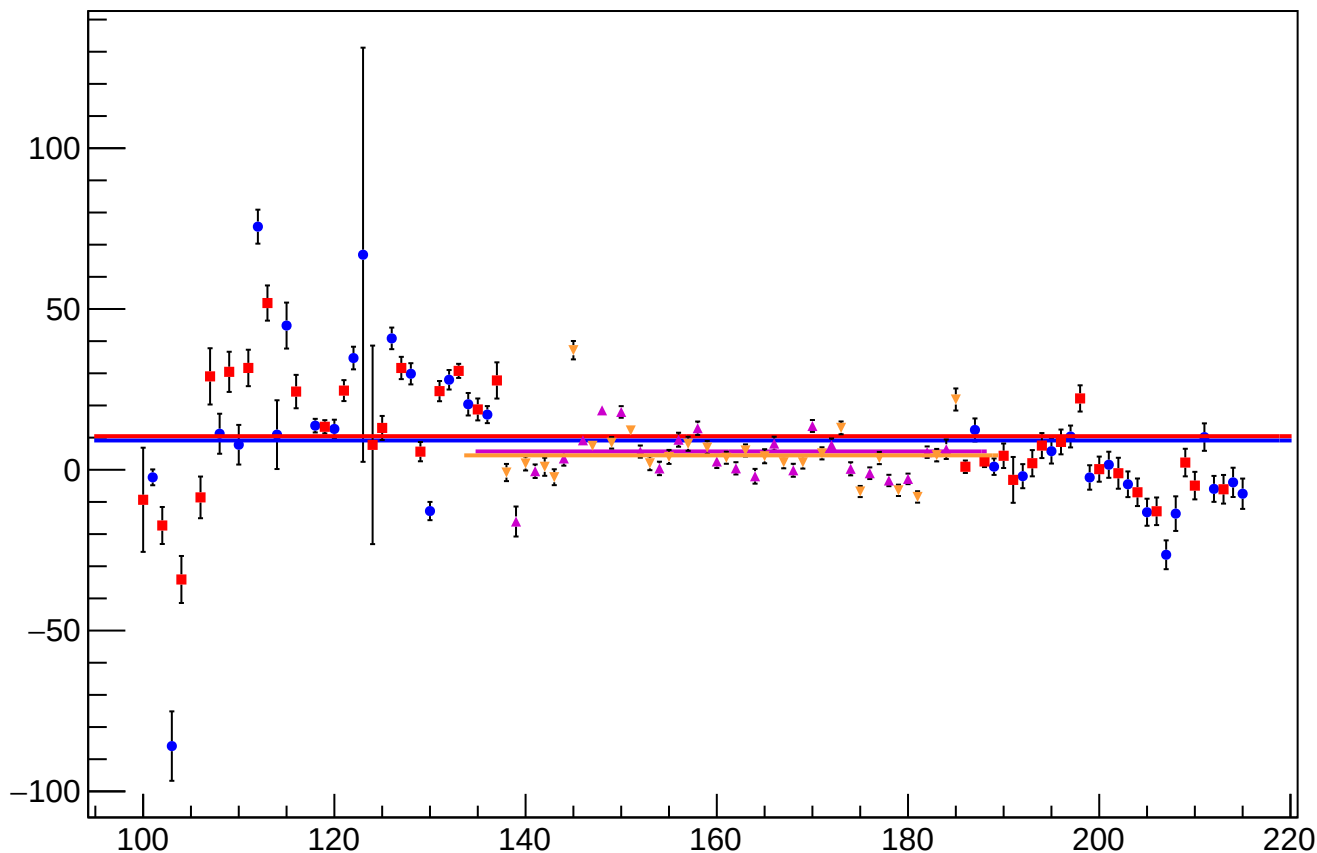
Right: 13.799 $\pm$ 0.475 χ^2 /NDF: 2571.0/29

In: -0.511 $\pm$ 0.410 χ^2 /NDF: 4158.6/37

Out: -0.459 $\pm$ 0.396 χ^2 /NDF: 4271.2/39

All: -0.484 $\pm$ 0.285 χ^2 /NDF: 8429.8/77

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.118 ± 0.652 $\chi^2/\text{NDF}: 778.1/31$

Left Out: 4.484 ± 0.392 $\chi^2/\text{NDF}: 371.9/24$

Right Out: 10.449 ± 0.625 $\chi^2/\text{NDF}: 499.5/33$

Left In: 5.705 ± 0.404 $\chi^2/\text{NDF}: 324.1/22$

Left: 5.076 ± 0.281 $\chi^2/\text{NDF}: 700.6/47$

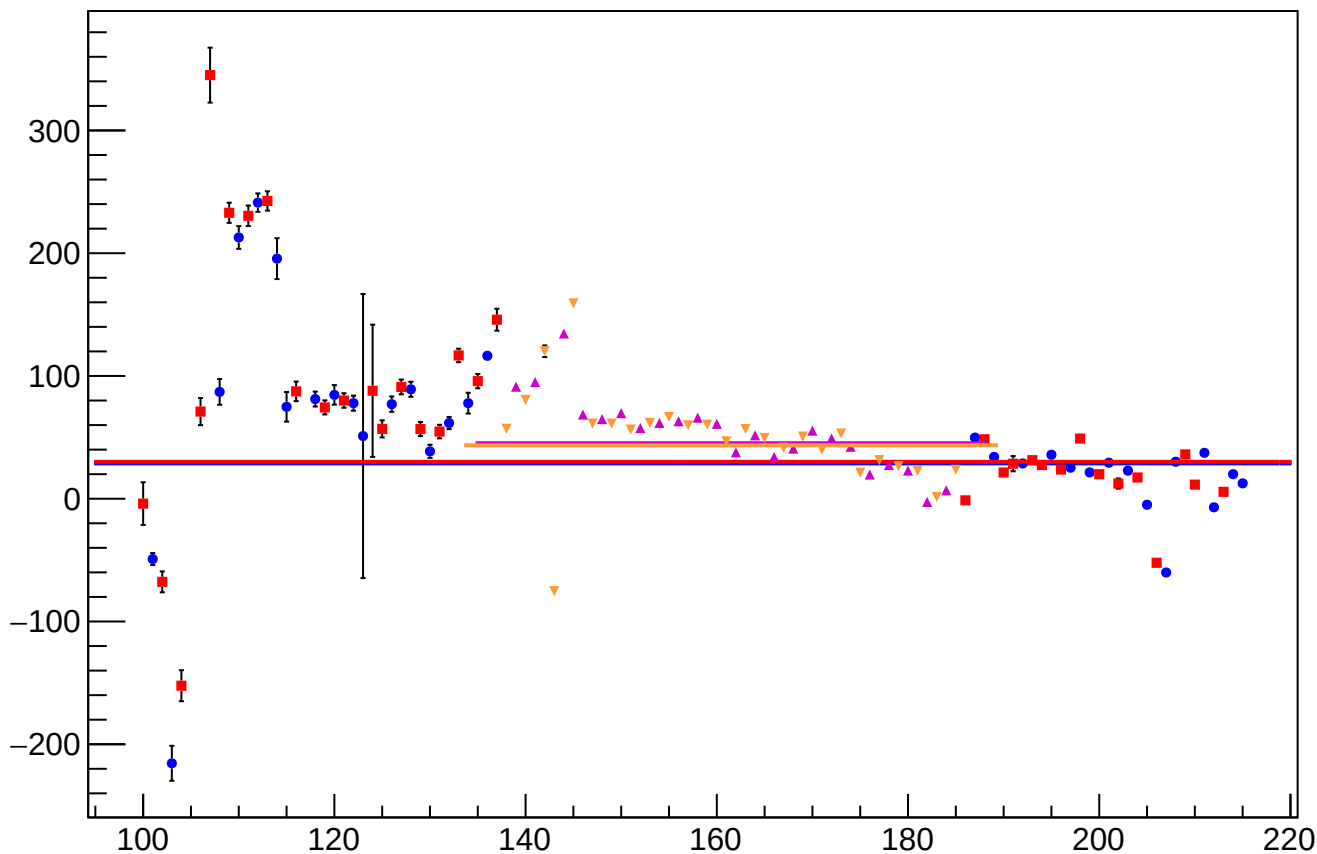
Right: 9.811 ± 0.451 $\chi^2/\text{NDF}: 1279.8/65$

In: 6.652 ± 0.344 $\chi^2/\text{NDF}: 1122.0/54$

Out: 6.168 ± 0.332 $\chi^2/\text{NDF}: 936.7/58$

All: 6.402 ± 0.239 $\chi^2/\text{NDF}: 2059.7/113$

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.796+/-0.613 χ^2/NDF : 4346.4/31

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 30.098+/-0.544 χ^2/NDF : 5446.1/33

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

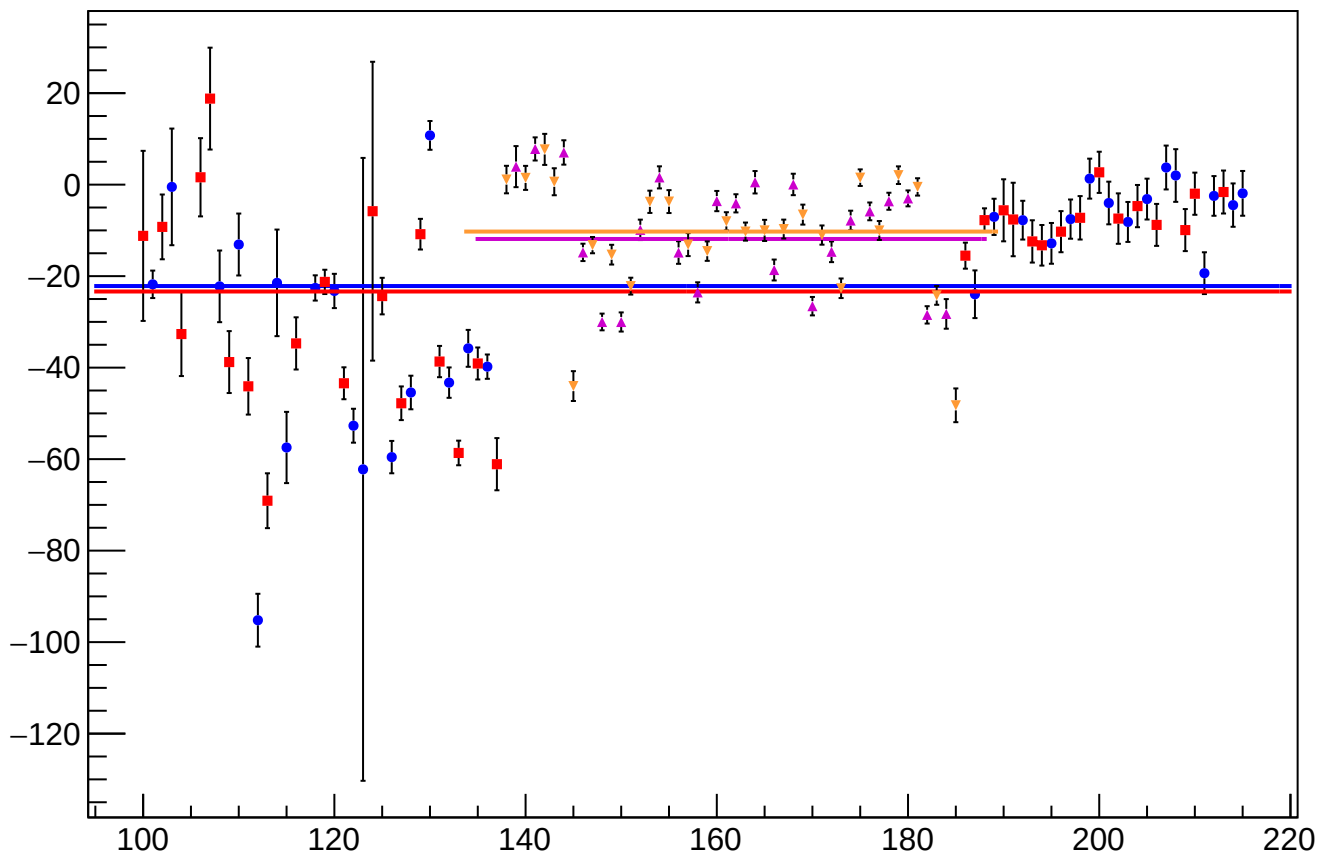
Right: 29.525+/-0.407 χ^2/NDF : 9795.0/65

In: 38.587+/-0.389 χ^2/NDF : 7822.5/54

Out: 37.397+/-0.367 χ^2/NDF : 9607.9/58

All: 37.958+/-0.267 χ^2/NDF : 17435.3/113

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.163 ± 0.755 χ^2/NDF : 824.5/31

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -23.357 ± 0.752 χ^2/NDF : 660.5/33

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

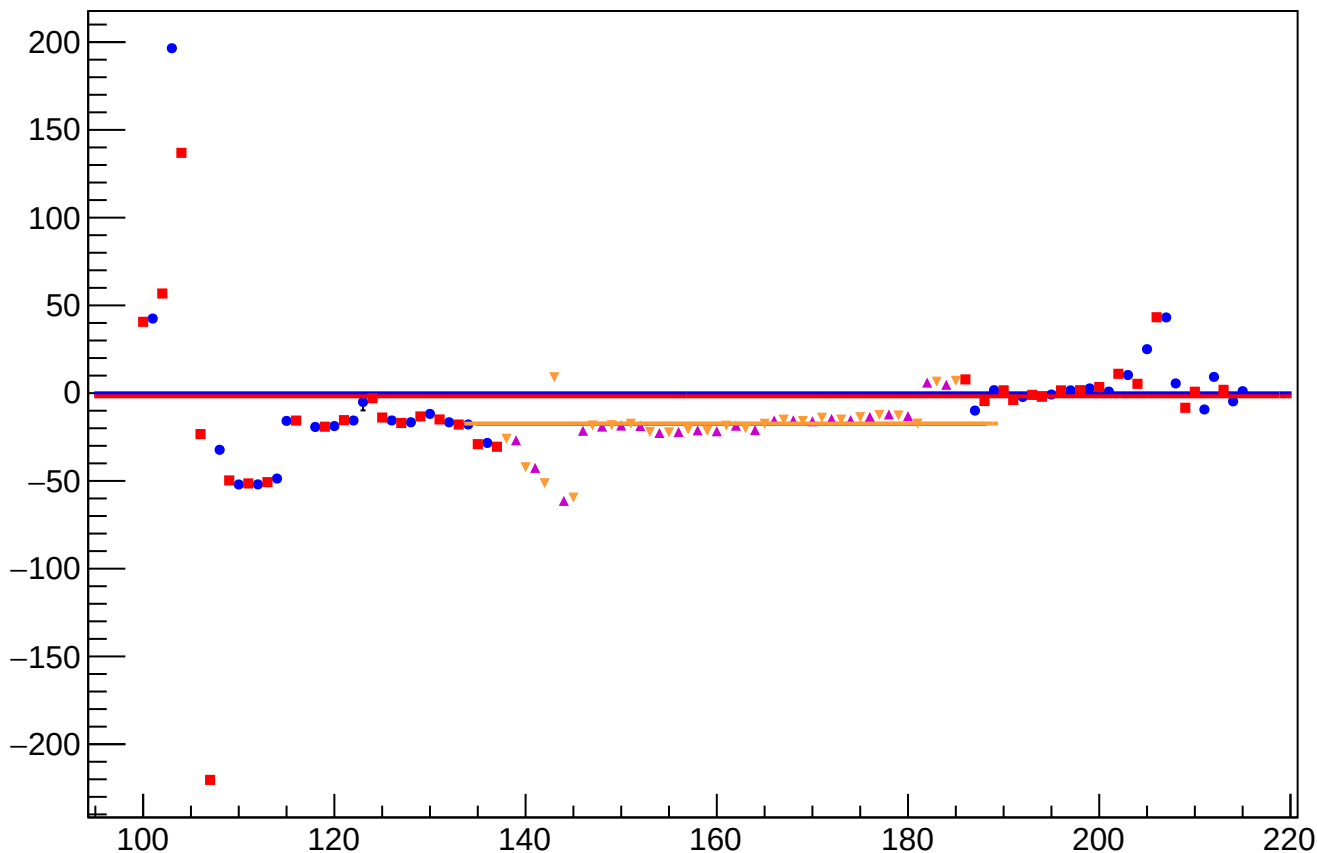
Right: -22.762 ± 0.533 χ^2/NDF : 1486.2/65

In: -14.629 ± 0.390 χ^2/NDF : 1626.8/54

Out: -13.646 ± 0.383 χ^2/NDF : 1437.9/58

All: -14.128 ± 0.273 χ^2/NDF : 3067.9/113

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.093 ± 0.036 $\chi^2/\text{NDF}: 678312.7/31$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -1.800 ± 0.035 $\chi^2/\text{NDF}: 672316.3/33$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

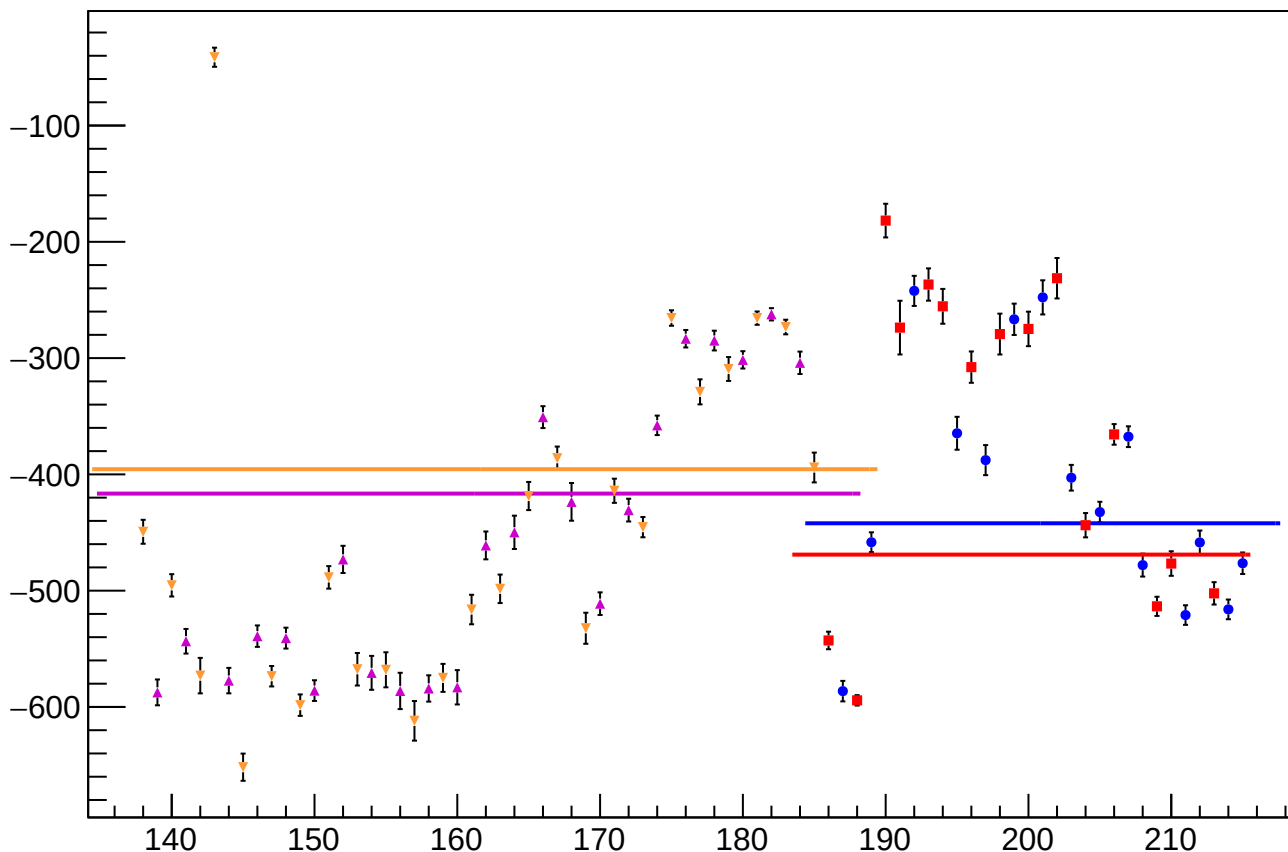
Right: -0.959 ± 0.025 $\chi^2/\text{NDF}: 1351800.6/65$

In: -13.092 ± 0.018 $\chi^2/\text{NDF}: 1116570.0/54$

Out: -13.395 ± 0.018 $\chi^2/\text{NDF}: 1144460.0/58$

All: -13.246 ± 0.013 $\chi^2/\text{NDF}: 2261176.1/113$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -442.049+/-2.611 χ^2/NDF : 1178.9/14

Left Out: -395.547+/-1.953 χ^2/NDF :5946.5/24

Right Out: -468.995+/-2.528 χ^2/NDF : 2625.4/14

Left In: -416.521+/-2.005 χ^2/NDF :3917.0/22

Left: -405.762+/-1.399 χ^2/NDF : 9919.7/47

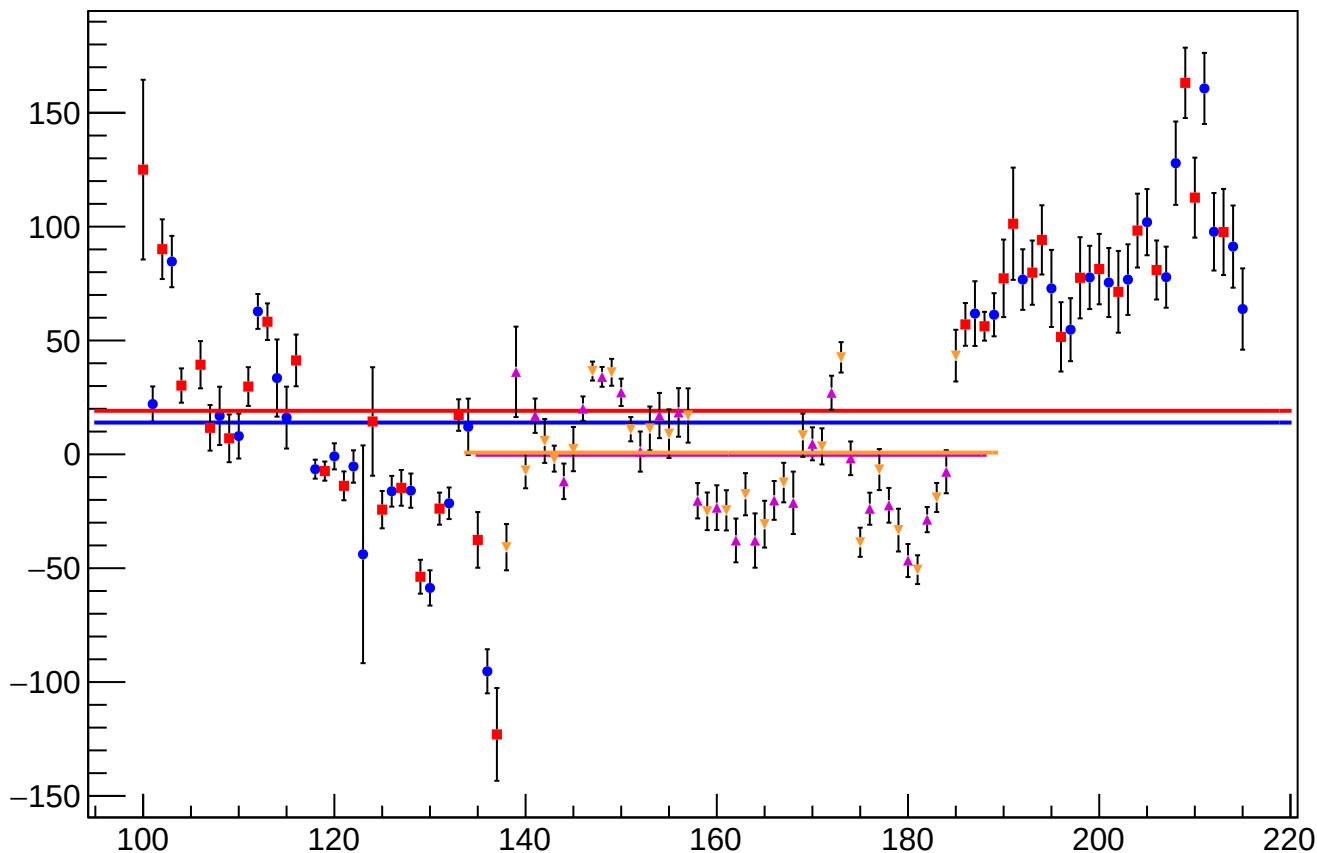
Right: -455.958+/-1.816 χ^2/NDF : 3859.4/29

In: -425.990+/-1.590 χ^2/NDF :5156.1/37

Out: -423.012+/-1.546 χ^2/NDF :9100.6/39

All: -424.459+/-1.108 χ^2/NDF : 14258.5/77

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.963 $\pm$ 1.713 χ^2 /NDF: 769.4/31

Left Out: 0.767 $\pm$ 1.503 χ^2 /NDF:350.1/24

Right Out: 19.134 $\pm$ 1.672 χ^2 /NDF: 725.8/33

Left In: -0.202 $\pm$ 1.575 χ^2 /NDF:260.8/22

Left: 0.305 $\pm$ 1.087 χ^2 /NDF: 611.1/47

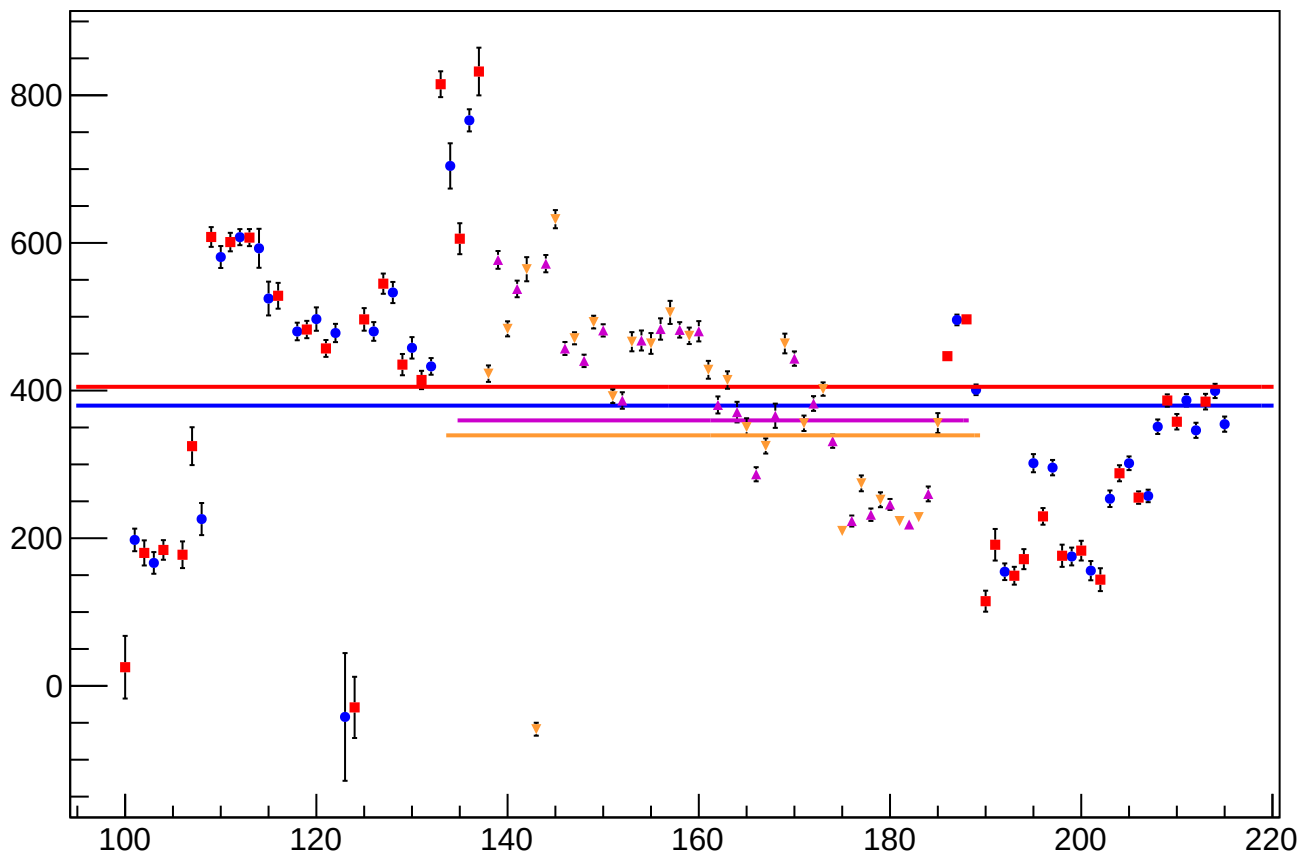
Right: 16.612 $\pm$ 1.197 χ^2 /NDF: 1499.9/65

In: 6.286 $\pm$ 1.160 χ^2 /NDF:1067.3/54

Out: 8.973 $\pm$ 1.118 χ^2 /NDF:1142.7/58

All: 7.679 $\pm$ 0.805 χ^2 /NDF: 2212.7/113

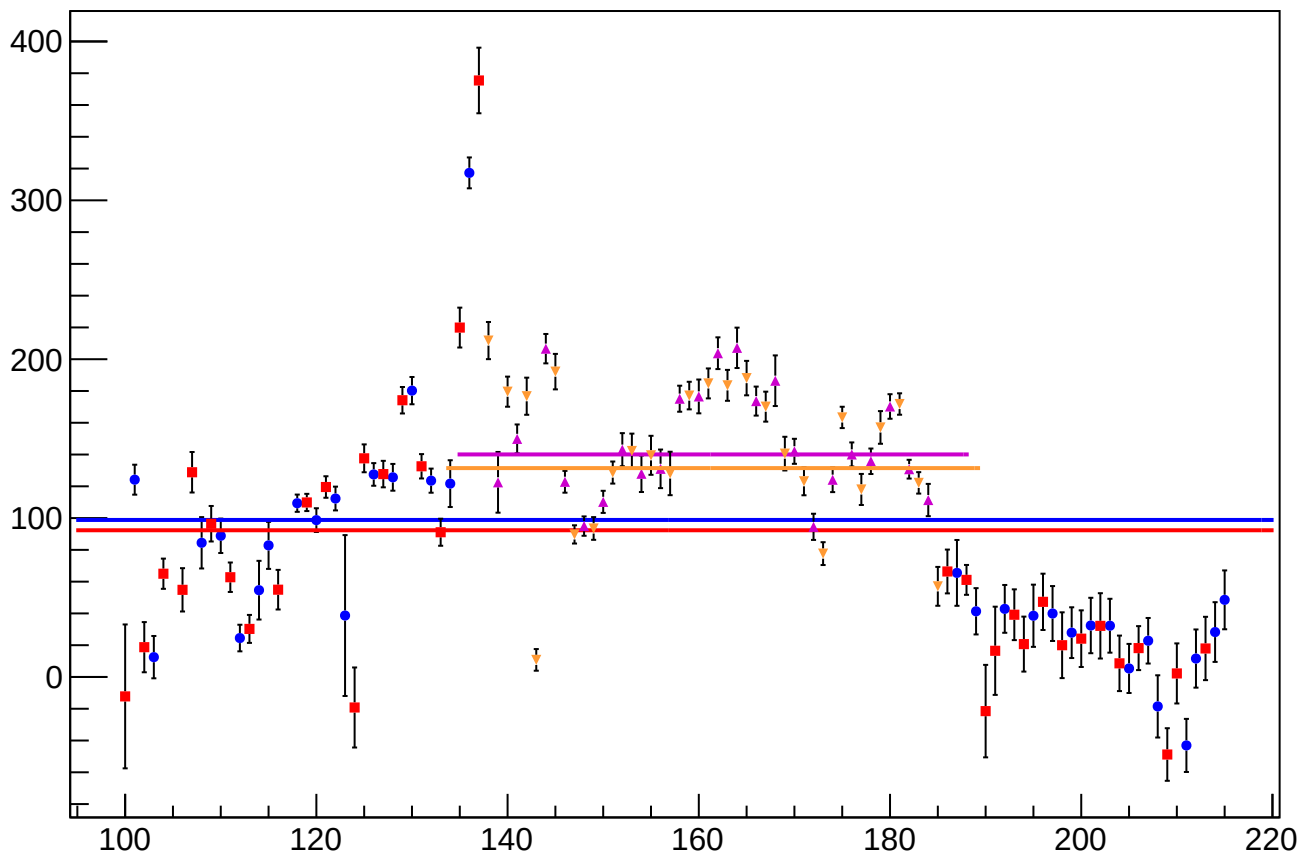
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 379.629 $\pm$ 2.056 χ^2 /NDF: 4135.1/31
 Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24
 Right Out: 405.106 $\pm$ 1.889 χ^2 /NDF: 6109.3/33
 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: 393.448 $\pm$ 1.391 χ^2 /NDF: 10327.6/65
 In: 369.355 $\pm$ 1.435 χ^2 /NDF:7582.3/54
 Out: 373.493 $\pm$ 1.361 χ^2 /NDF:12194.5/58
 All: 371.533 $\pm$ 0.987 χ^2 /NDF: 19781.1/113

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.830+/-1.988 χ^2/NDF : 1098.9/31

Left Out: 131.464+/-1.728 χ^2/NDF : 809.3/24

Right Out: 92.340+/-1.962 χ^2/NDF : 895.0/33

Left In: 140.069+/-1.795 χ^2/NDF : 316.5/22

Left: 135.602+/-1.245 χ^2/NDF : 1137.8/47

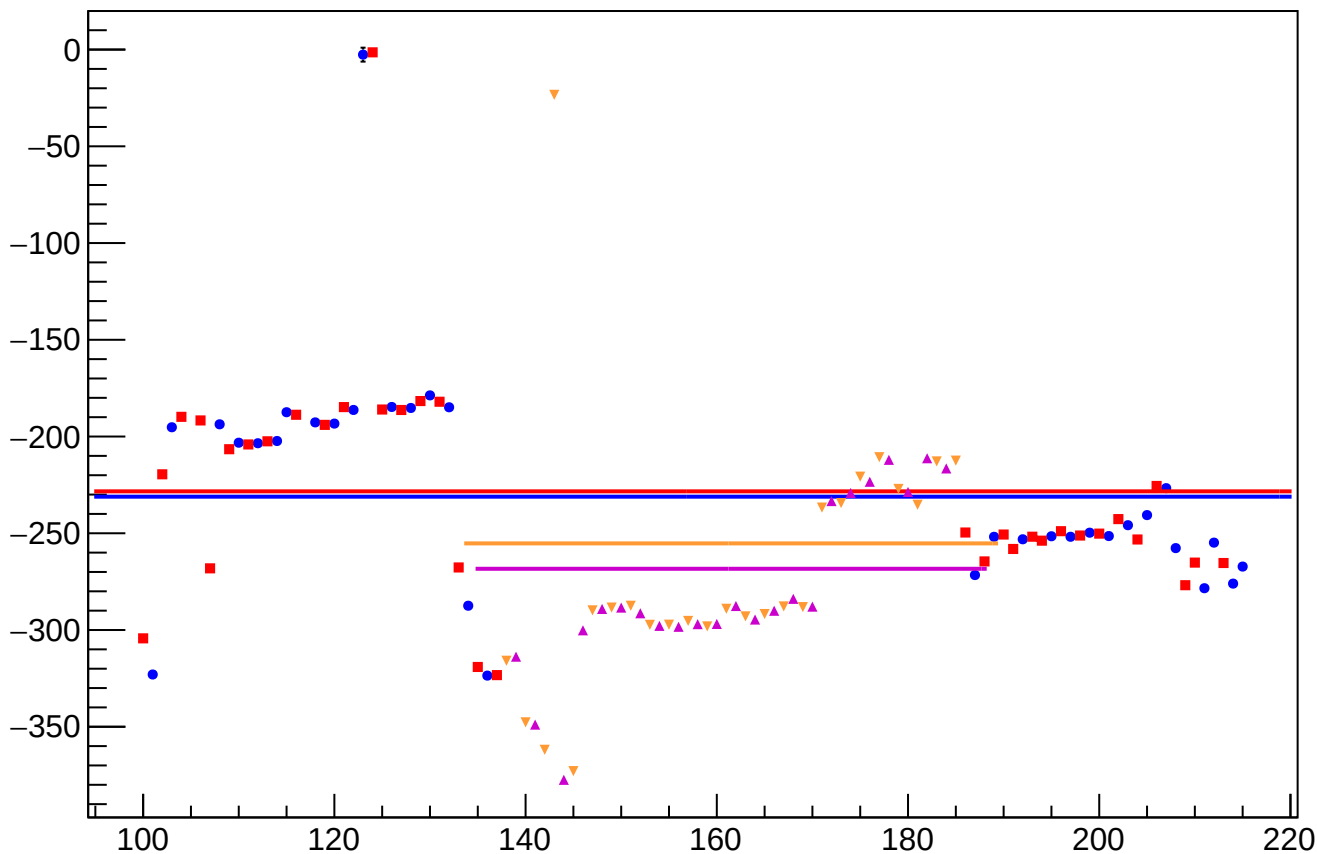
Right: 95.543+/-1.397 χ^2/NDF : 1999.3/65

In: 121.545+/-1.332 χ^2/NDF : 1652.5/54

Out: 114.381+/-1.297 χ^2/NDF : 1928.3/58

All: 117.866+/-0.929 χ^2/NDF : 3595.6/113

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -231.086 ± 0.105 $\chi^2/\text{NDF}: 176615.4/31$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -228.330 ± 0.101 $\chi^2/\text{NDF}: 156553.0/33$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

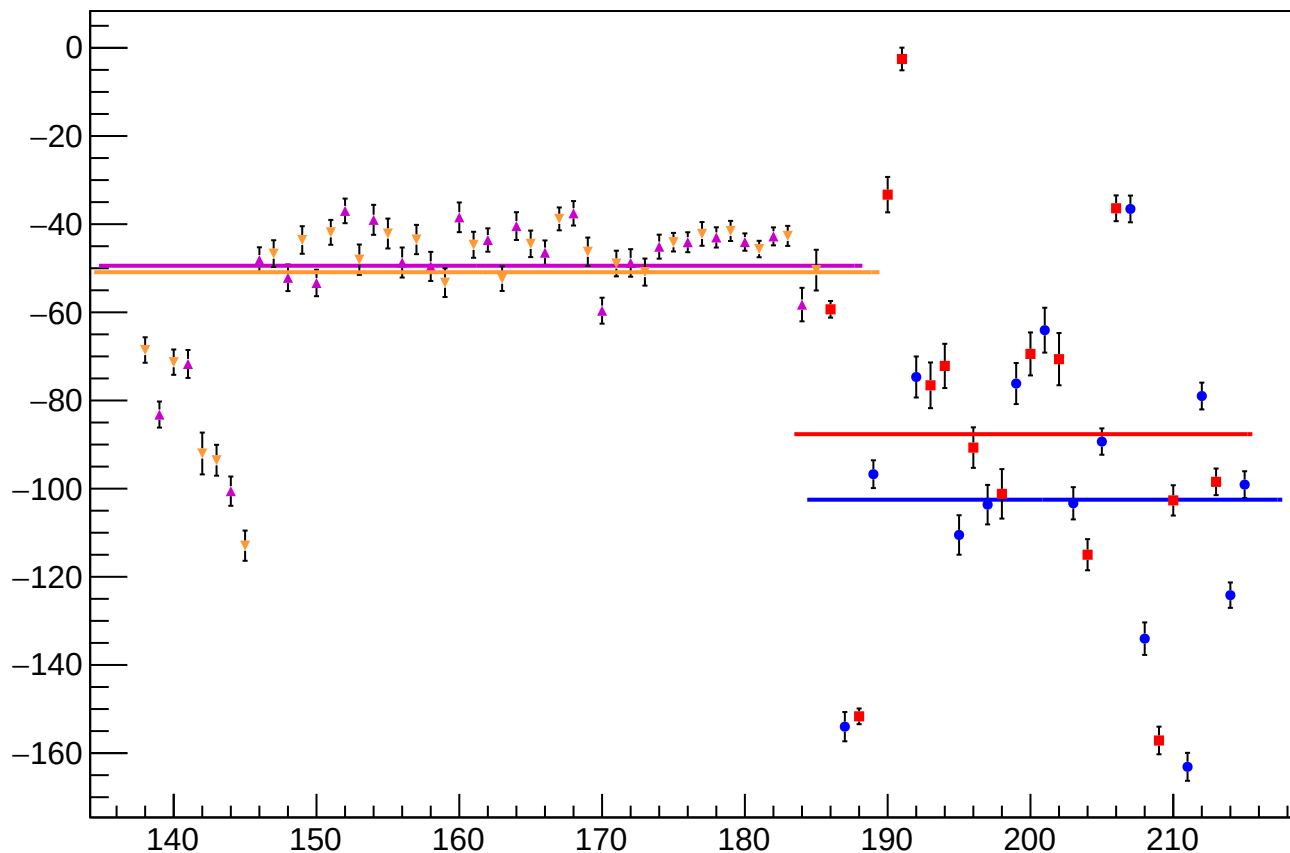
Right: -229.655 ± 0.073 $\chi^2/\text{NDF}: 333524.0/65$

In: -253.943 ± 0.065 $\chi^2/\text{NDF}: 515888.9/54$

Out: -244.592 ± 0.064 $\chi^2/\text{NDF}: 927180.1/58$

All: -249.140 ± 0.046 $\chi^2/\text{NDF}: 1453542.5/111$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -102.507+/-0.902 χ^2 /NDF: 1421.5/14

Left Out: -50.897+/-0.573 χ^2 /NDF: 761.1/24

Right Out: -87.642+/-0.808 χ^2 /NDF: 3732.2/14

Left In: -49.432+/-0.584 χ^2 /NDF: 543.4/22

Left: -50.179+/-0.409 χ^2 /NDF: 1307.8/47

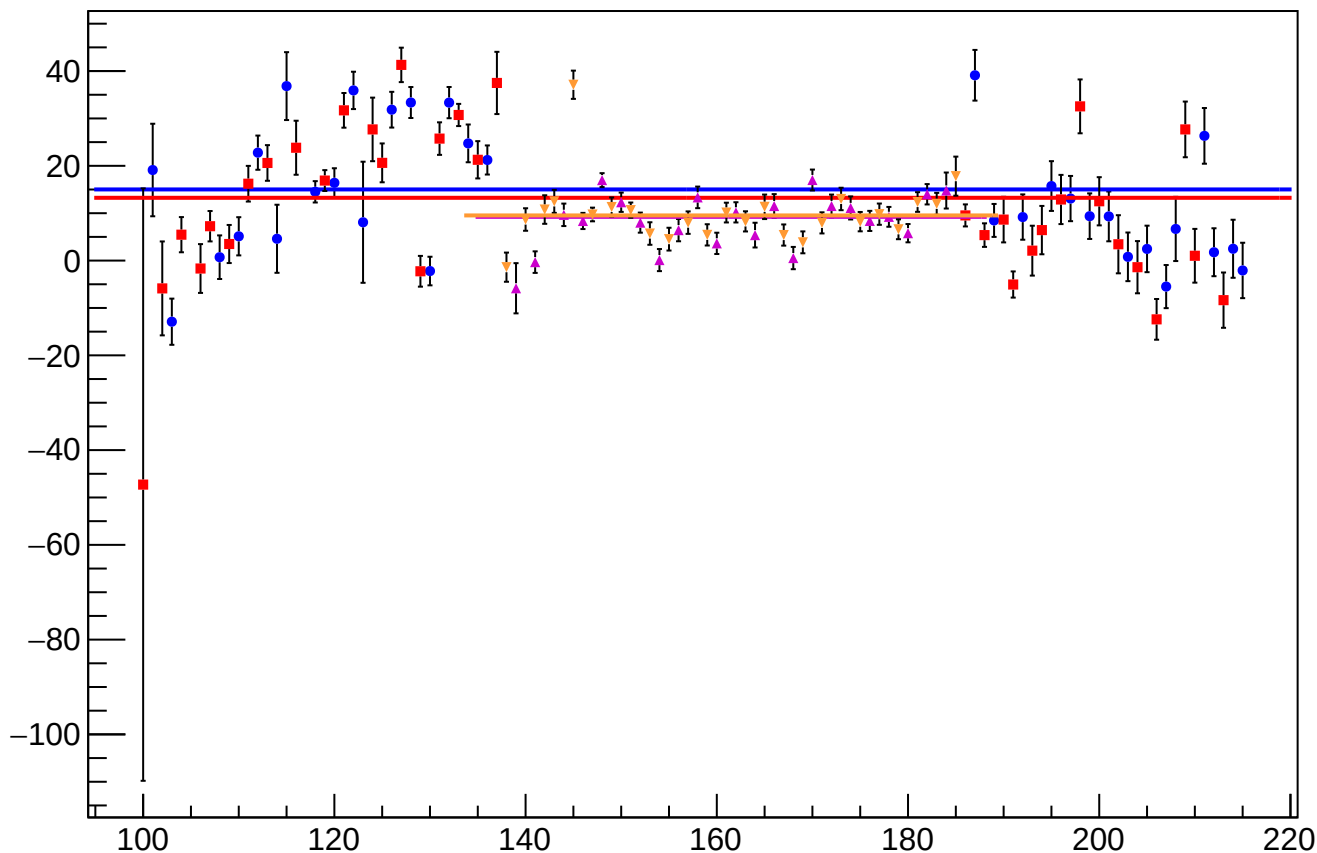
Right: -94.261+/-0.602 χ^2 /NDF: 5304.2/29

In: -65.095+/-0.490 χ^2 /NDF: 4403.1/37

Out: -63.176+/-0.467 χ^2 /NDF: 5868.6/39

All: -64.090+/-0.338 χ^2 /NDF: 10279.7/77

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.017 $\pm$ 0.750 χ^2 /NDF: 305.7/31

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.251 $\pm$ 0.667 χ^2 /NDF: 384.7/33

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

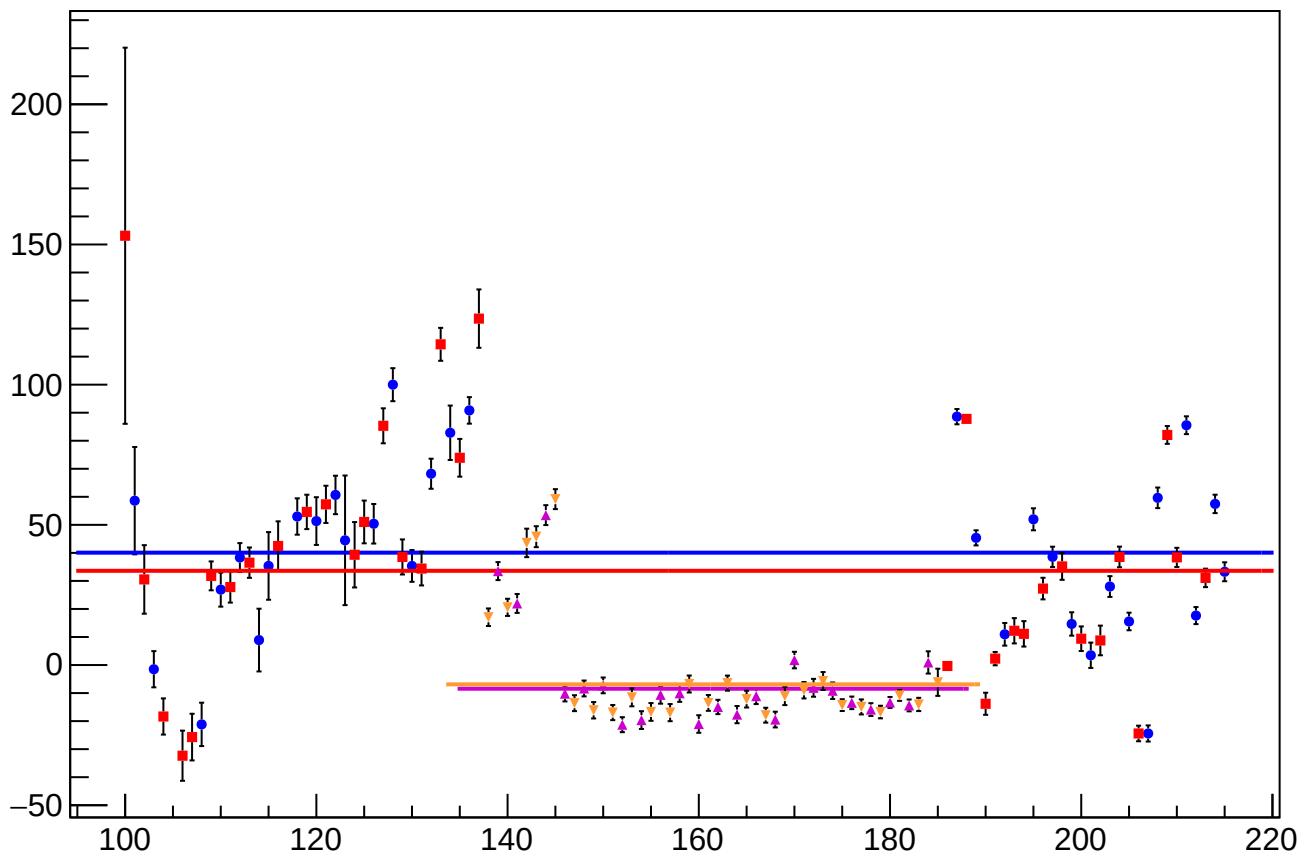
Right: 14.032 $\pm$ 0.498 χ^2 /NDF: 693.5/65

In: 10.822 $\pm$ 0.393 χ^2 /NDF:472.8/54

Out: 10.679 $\pm$ 0.371 χ^2 /NDF:540.6/58

All: 10.746 $\pm$ 0.270 χ^2 /NDF: 1013.5/113

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.082 $\pm$ 0.769 χ^2 /NDF: 1777.7/31

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF:914.2/24

Right Out: 33.610 $\pm$ 0.655 χ^2 /NDF: 3596.7/33

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF:688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

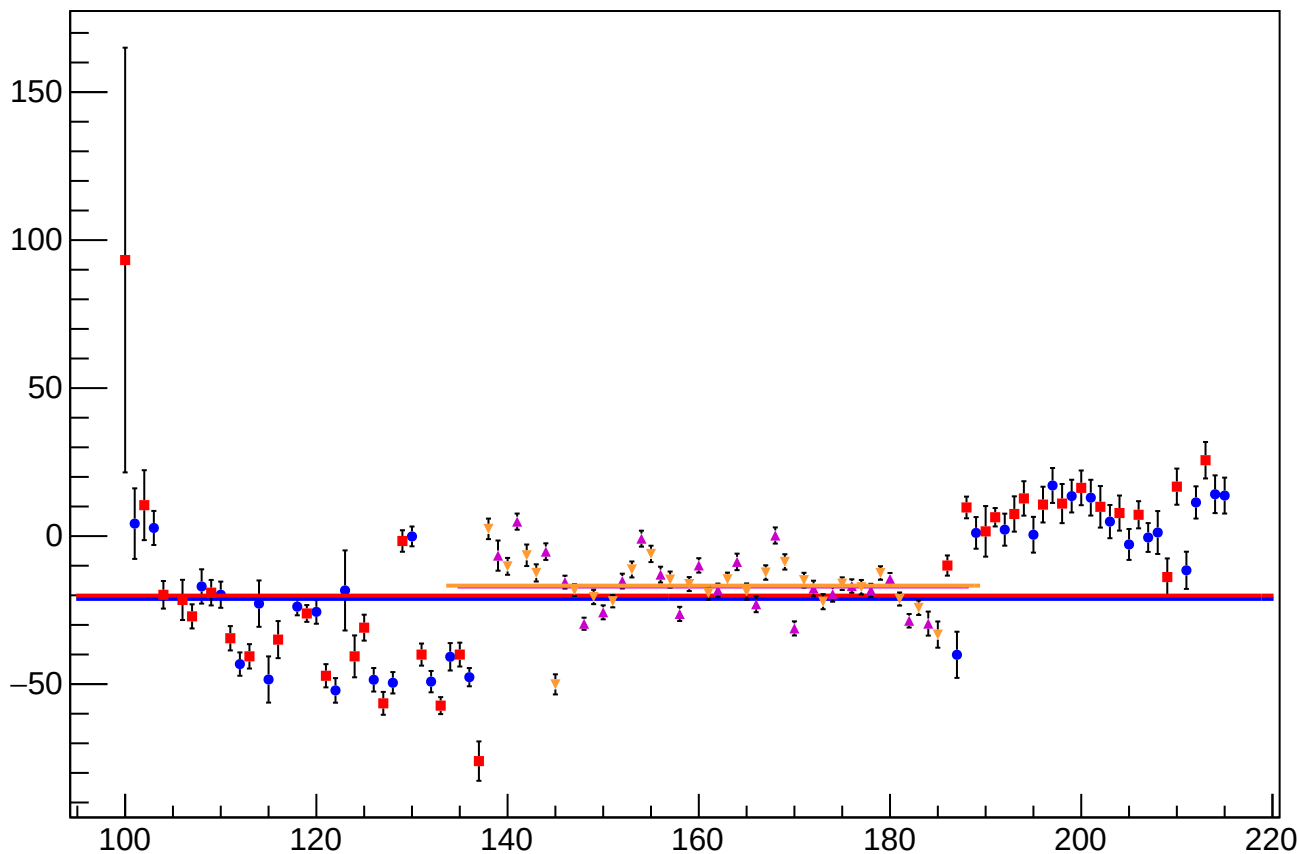
Right: 36.333 $\pm$ 0.499 χ^2 /NDF: 5415.5/65

In: 9.145 $\pm$ 0.463 χ^2 /NDF:5006.8/54

Out: 10.591 $\pm$ 0.430 χ^2 /NDF:6682.2/58

All: 9.920 $\pm$ 0.315 χ^2 /NDF: 11694.2/113

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.209 ± 0.858 χ^2/NDF : 756.2/31

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -20.104 ± 0.790 χ^2/NDF : 989.2/33

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

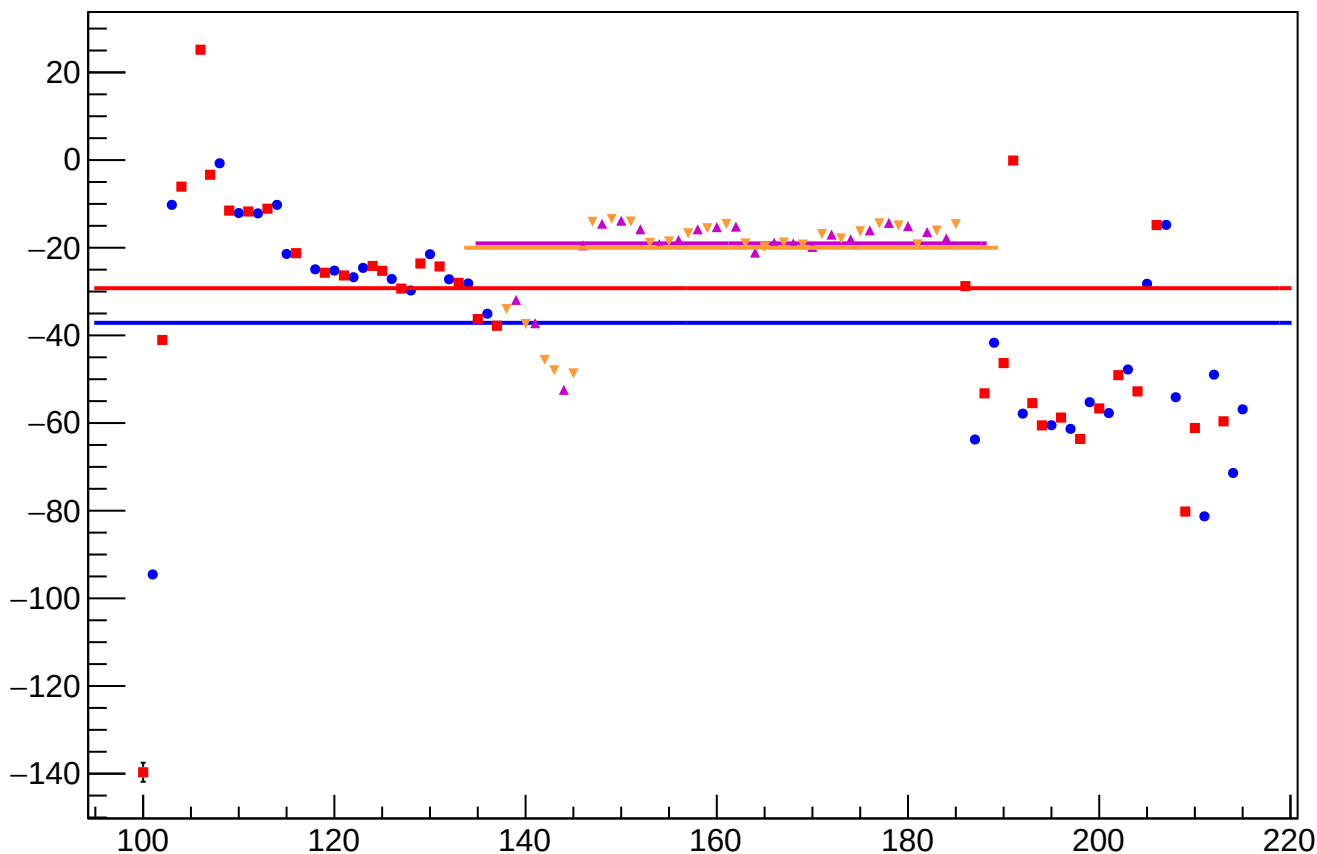
Right: -20.610 ± 0.581 χ^2/NDF : 1746.3/65

In: -18.153 ± 0.446 χ^2/NDF : 1101.1/54

Out: -17.716 ± 0.426 χ^2/NDF : 1225.4/58

All: -17.925 ± 0.308 χ^2/NDF : 2327.0/113

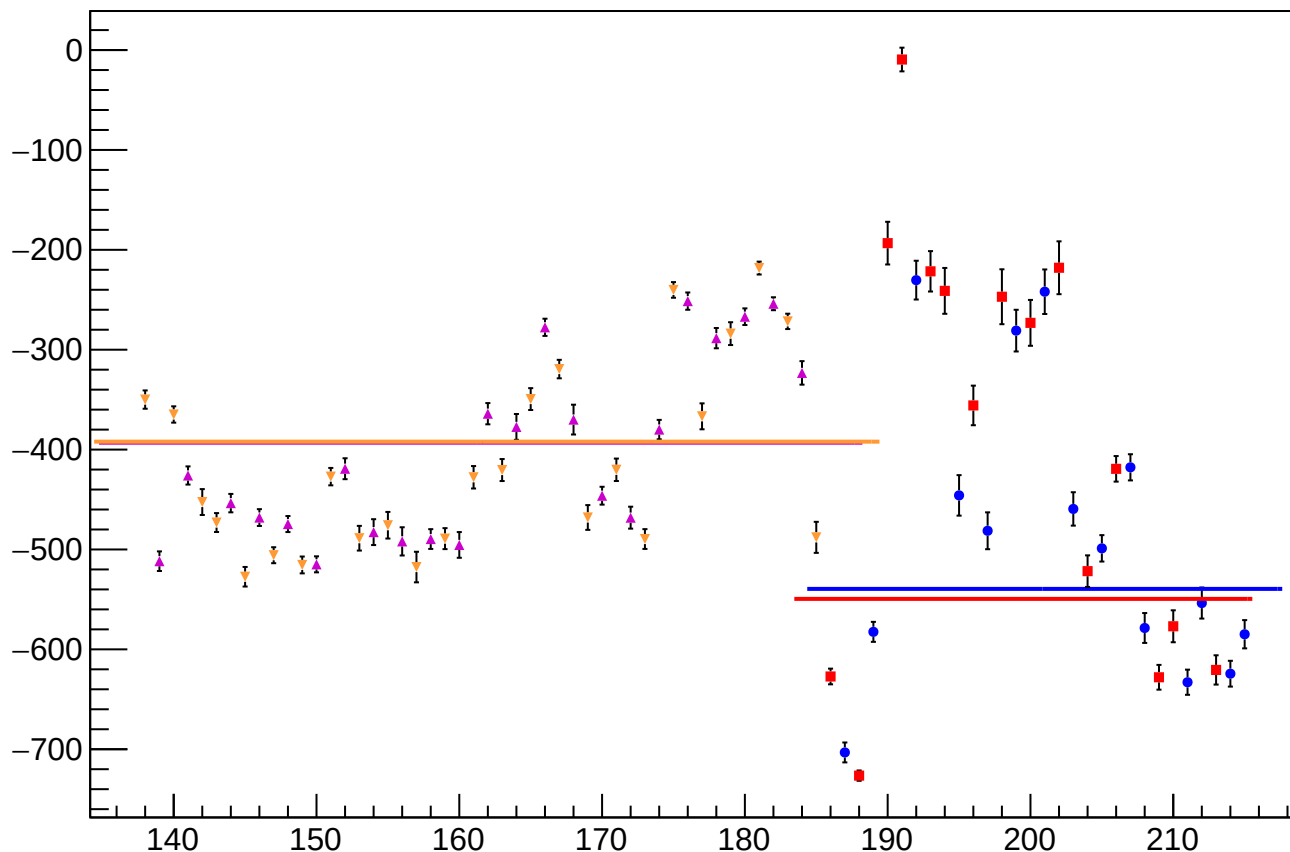
reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.133+/-0.041 χ^2/NDF : 258814.0/31
 Left Out: -20.006+/-0.023 χ^2/NDF :145623.8/24
 Right Out: -29.232+/-0.036 χ^2/NDF : 469478.5/33
 Left In: -19.007+/-0.024 χ^2/NDF :90873.3/22

Left: -19.514+/-0.017 χ^2/NDF : 237400.2/47
 Right: -32.717+/-0.027 χ^2/NDF : 749361.1/65
 In: -23.591+/-0.020 χ^2/NDF :497932.0/54
 Out: -22.713+/-0.020 χ^2/NDF :661121.8/58
 All: -23.133+/-0.014 χ^2/NDF : 1160014.8/113

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -539.465 $\pm$ 3.691 χ^2 /NDF: 1139.6/14

Left Out: -392.054 $\pm$ 1.967 χ^2 /NDF:2717.2/24

Right Out: -549.472 $\pm$ 3.170 χ^2 /NDF: 4752.3/14

Left In: -393.113 $\pm$ 2.006 χ^2 /NDF:2253.3/22

Left: -392.573 $\pm$ 1.404 χ^2 /NDF: 4970.6/47

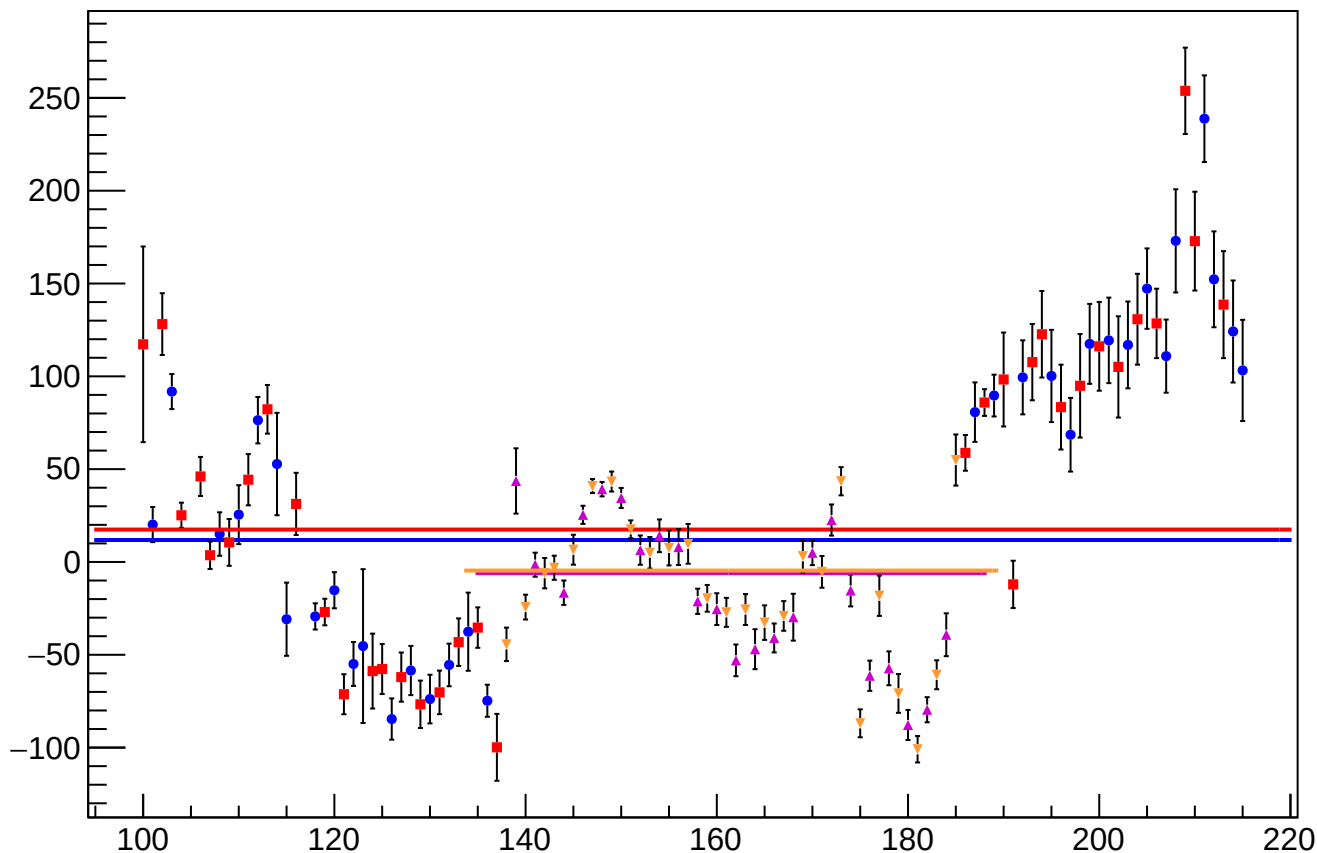
Right: -545.223 $\pm$ 2.405 χ^2 /NDF: 5896.1/29

In: -426.480 $\pm$ 1.762 χ^2 /NDF:4607.0/37

Out: -435.795 $\pm$ 1.671 χ^2 /NDF:9249.8/39

All: -431.384 $\pm$ 1.213 χ^2 /NDF: 13871.5/77

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.836 $\pm$ 2.488 χ^2 /NDF: 891.7/31

Left Out: -4.624 $\pm$ 1.462 χ^2 /NDF: 772.9/24

Right Out: 17.457 $\pm$ 2.214 χ^2 /NDF: 894.5/33

Left In: -6.019 $\pm$ 1.516 χ^2 /NDF: 654.1/22

Left: -5.296 $\pm$ 1.053 χ^2 /NDF: 1427.4/47

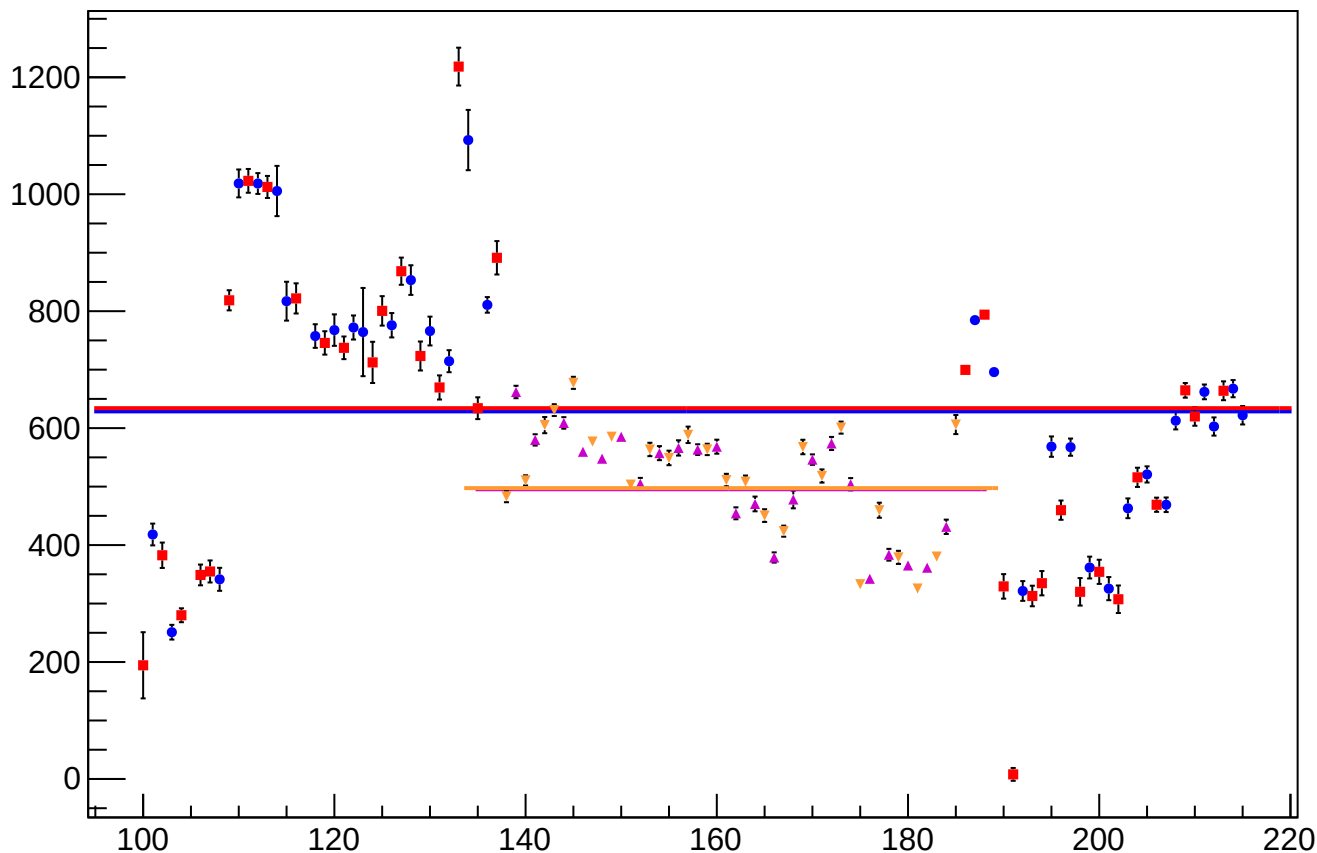
Right: 14.972 $\pm$ 1.654 χ^2 /NDF: 1789.1/65

In: -1.182 $\pm$ 1.295 χ^2 /NDF: 1583.4/54

Out: 2.080 $\pm$ 1.220 χ^2 /NDF: 1736.6/58

All: 0.545 $\pm$ 0.888 χ^2 /NDF: 3323.4/113

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 628.637 ± 2.842 $\chi^2/\text{NDF}: 4230.3/31$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 634.135 ± 2.372 $\chi^2/\text{NDF}: 9632.3/33$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

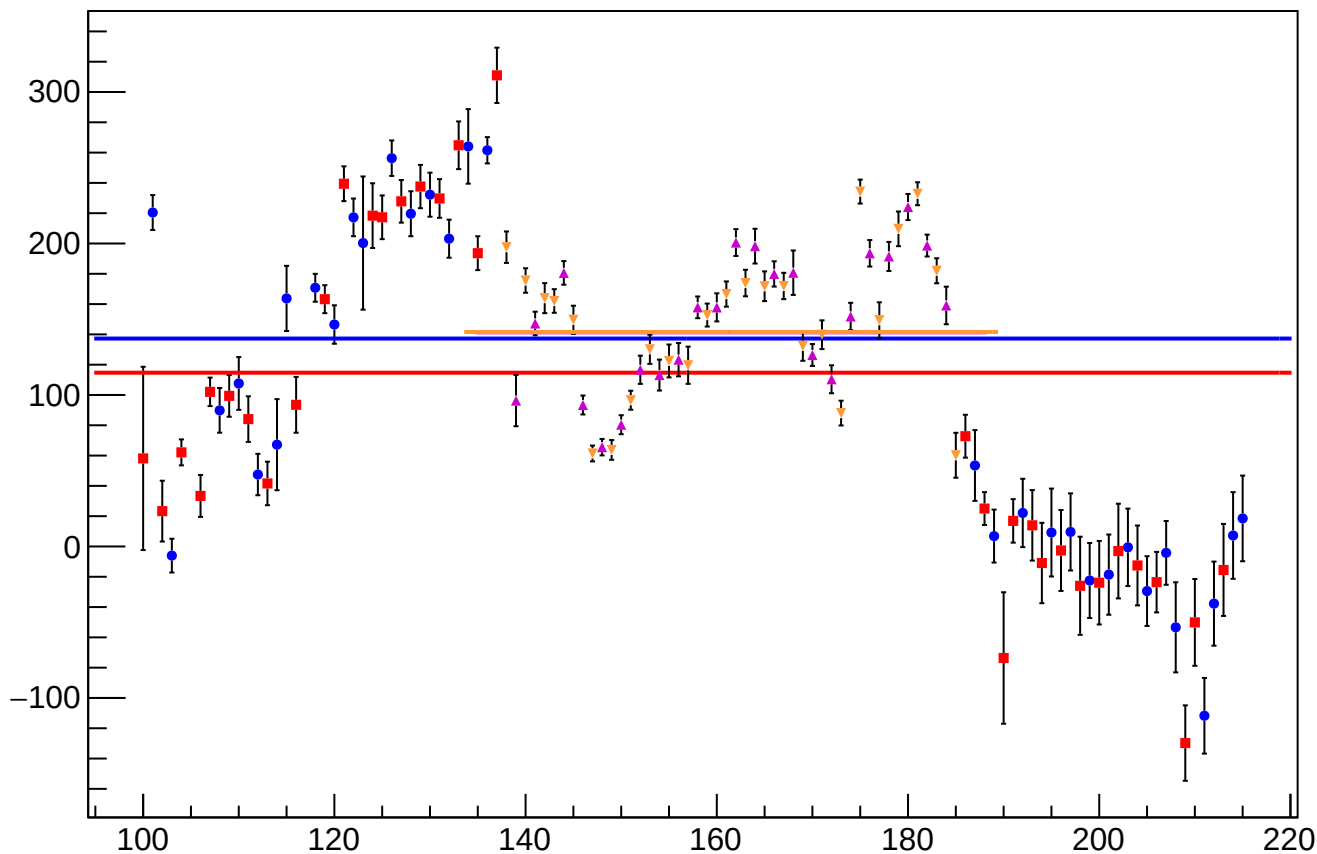
Right: 631.877 ± 1.821 $\chi^2/\text{NDF}: 13864.8/65$

In: 539.338 ± 1.631 $\chi^2/\text{NDF}: 7956.8/54$

Out: 553.060 ± 1.514 $\chi^2/\text{NDF}: 14217.1/58$

All: 546.712 ± 1.110 $\chi^2/\text{NDF}: 22211.9/113$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 137.253 $\pm$ 2.887 χ^2 /NDF: 1334.9/31

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 114.714 $\pm$ 2.649 χ^2 /NDF: 1304.0/33

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

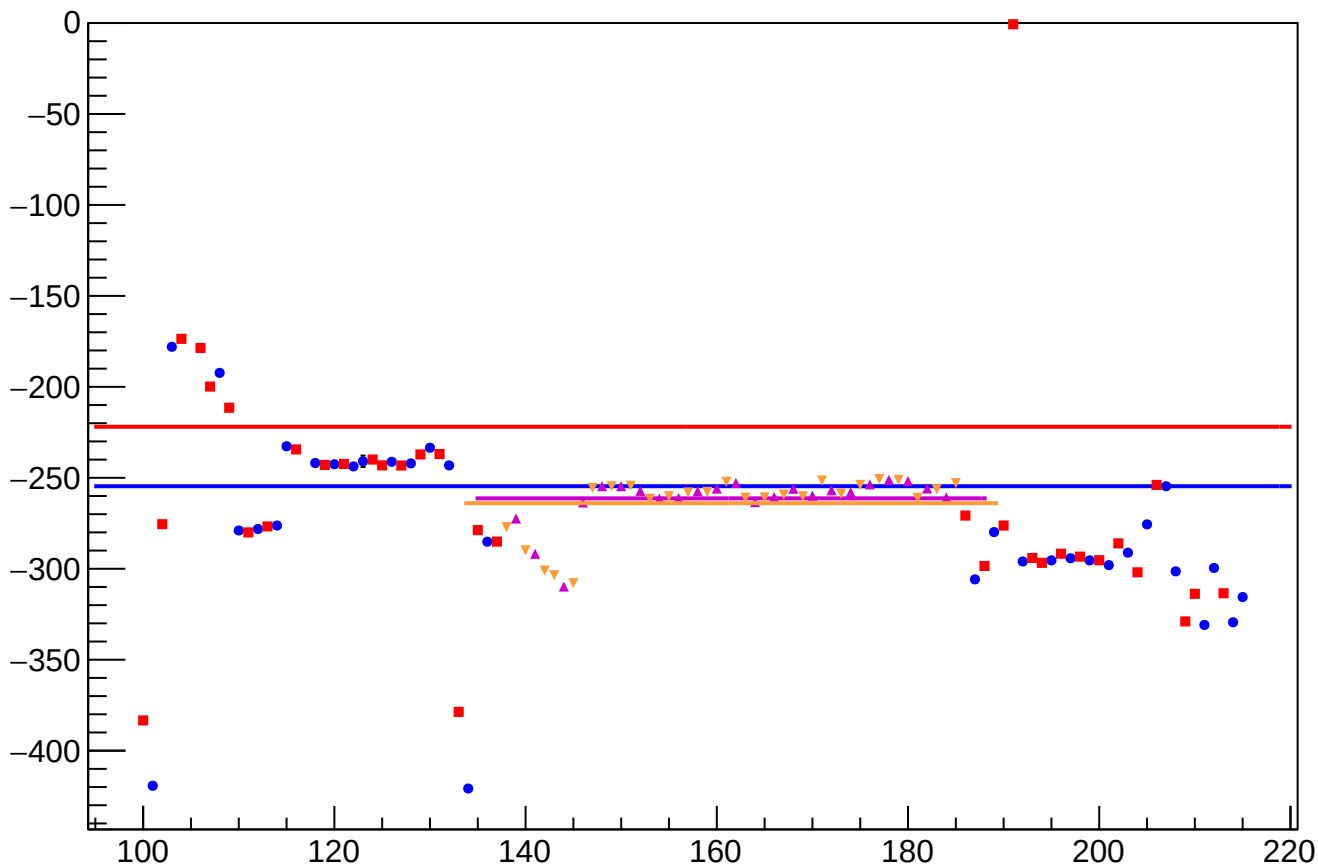
Right: 125.017 $\pm$ 1.952 χ^2 /NDF: 2672.0/65

In: 140.259 $\pm$ 1.495 χ^2 /NDF:2077.6/54

Out: 133.760 $\pm$ 1.430 χ^2 /NDF:2336.5/58

All: 136.864 $\pm$ 1.033 χ^2 /NDF: 4424.0/113

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -254.624+/-0.134 χ^2 /NDF: 206876.3/31

Left Out: -263.943+/-0.081 χ^2 /NDF:39085.0/24

Right Out: -221.938+/-0.121 χ^2 /NDF: 510368.6/33

Left In: -261.286+/-0.082 χ^2 /NDF:23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

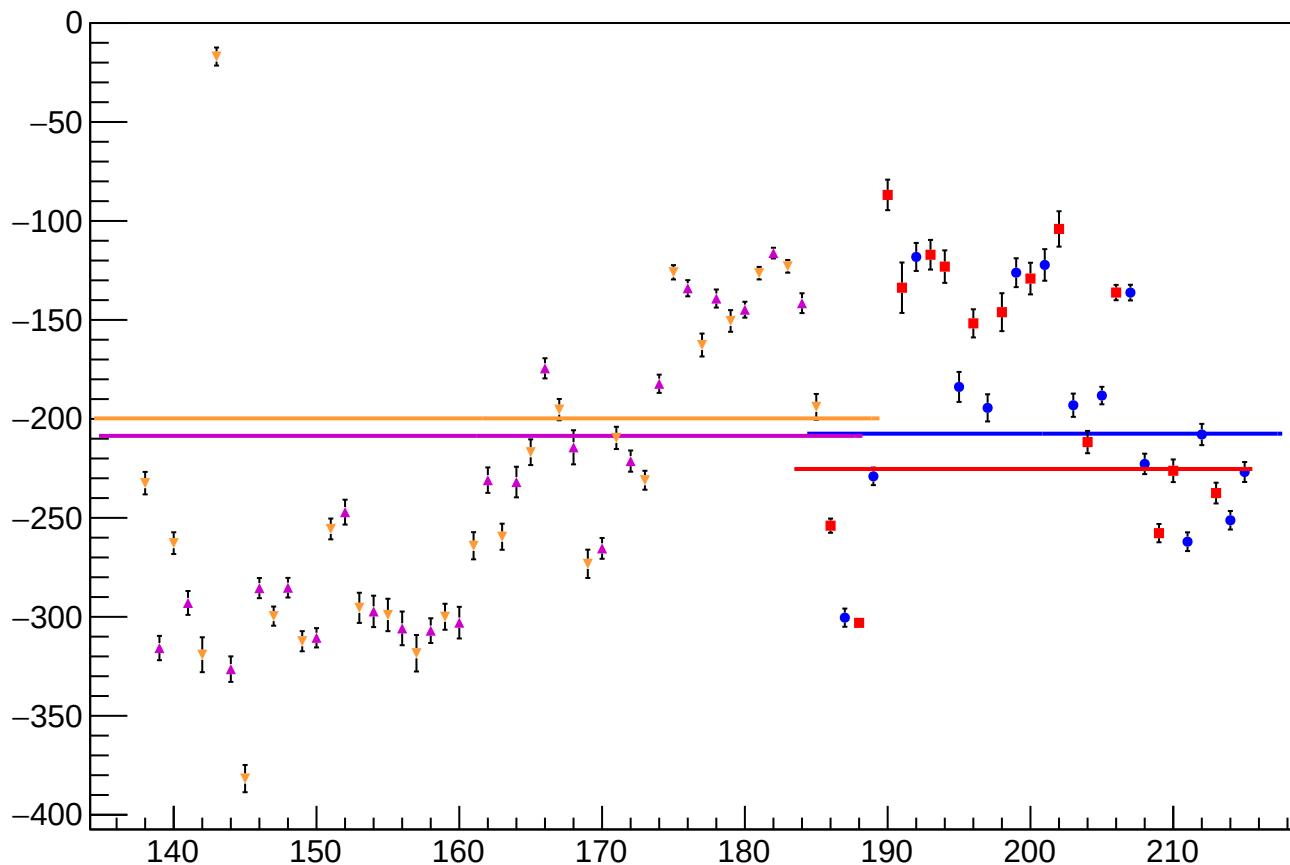
Right: -236.643+/-0.090 χ^2 /NDF: 749818.6/65

In: -259.478+/-0.070 χ^2 /NDF:232017.1/54

Out: -250.960+/-0.068 χ^2 /NDF:632071.8/58

All: -255.068+/-0.049 χ^2 /NDF: 871761.9/113

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -207.467 ± 1.364 $\chi^2/\text{NDF}: 1438.1/14$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -225.309 ± 1.311 $\chi^2/\text{NDF}: 2970.4/14$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

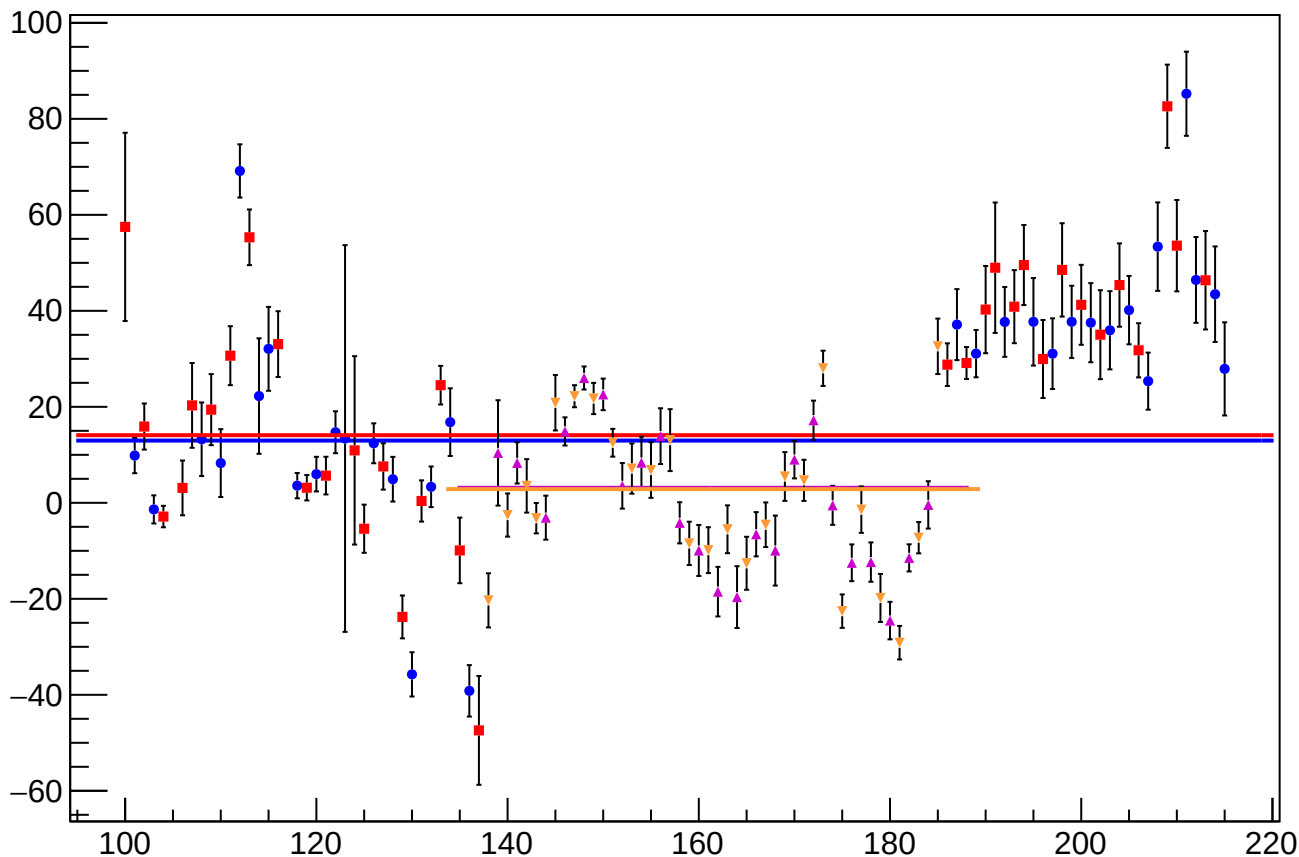
Right: -216.742 ± 0.945 $\chi^2/\text{NDF}: 4497.5/29$

In: -208.150 ± 0.848 $\chi^2/\text{NDF}: 6243.7/37$

Out: -209.862 ± 0.825 $\chi^2/\text{NDF}: 9561.7/39$

All: -209.029 ± 0.591 $\chi^2/\text{NDF}: 15807.5/77$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.969 $\pm$ 0.963 χ^2 /NDF: 573.2/31

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.089 $\pm$ 0.915 χ^2 /NDF: 523.1/33

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

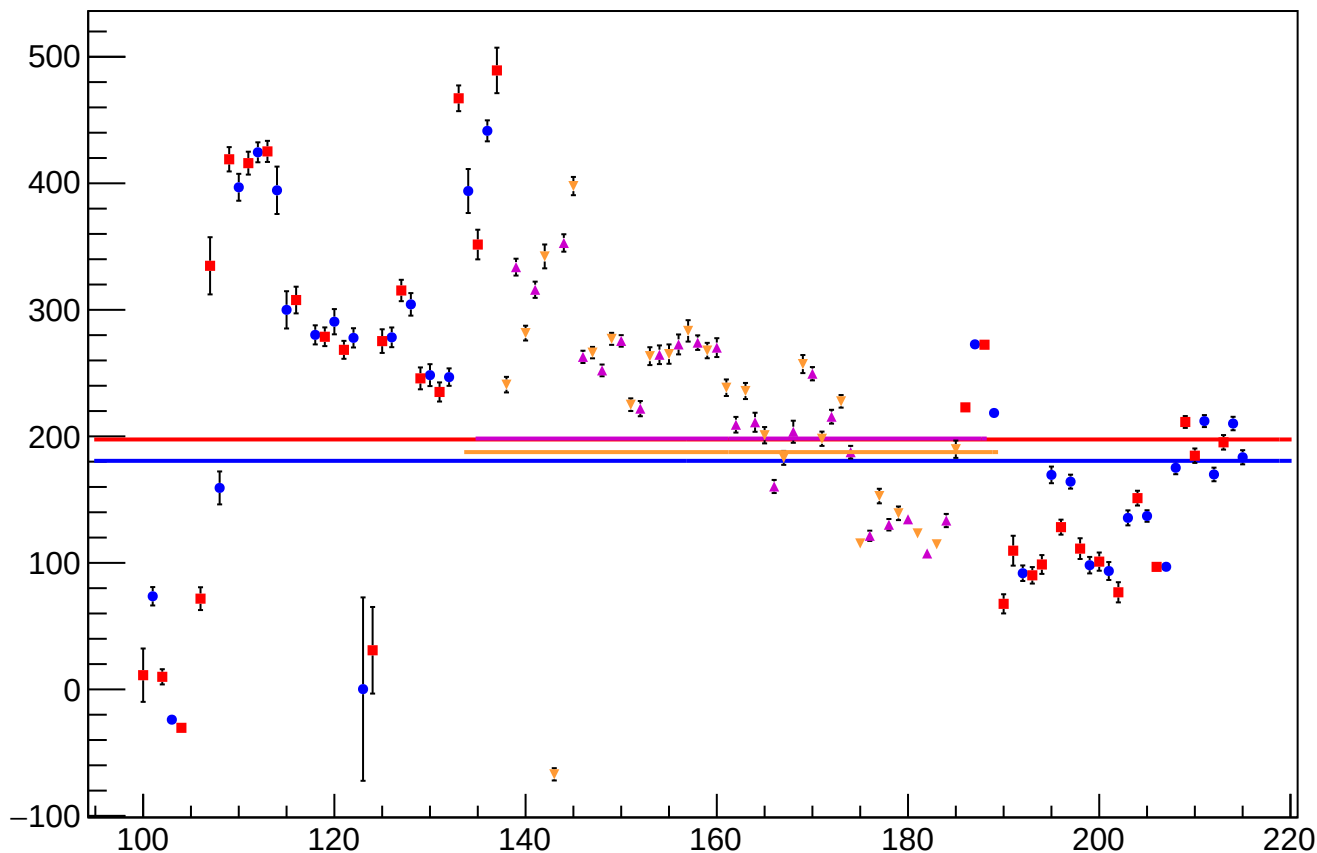
Right: 13.557 $\pm$ 0.663 χ^2 /NDF: 1097.0/65

In: 7.478 $\pm$ 0.640 χ^2 /NDF: 951.2/54

Out: 7.856 $\pm$ 0.611 χ^2 /NDF: 1026.5/58

All: 7.676 $\pm$ 0.442 χ^2 /NDF: 1977.9/113

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.652 $\pm$ 1.083 χ^2 /NDF: 8770.1/31

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.544 $\pm$ 0.990 χ^2 /NDF: 12144.8/33

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

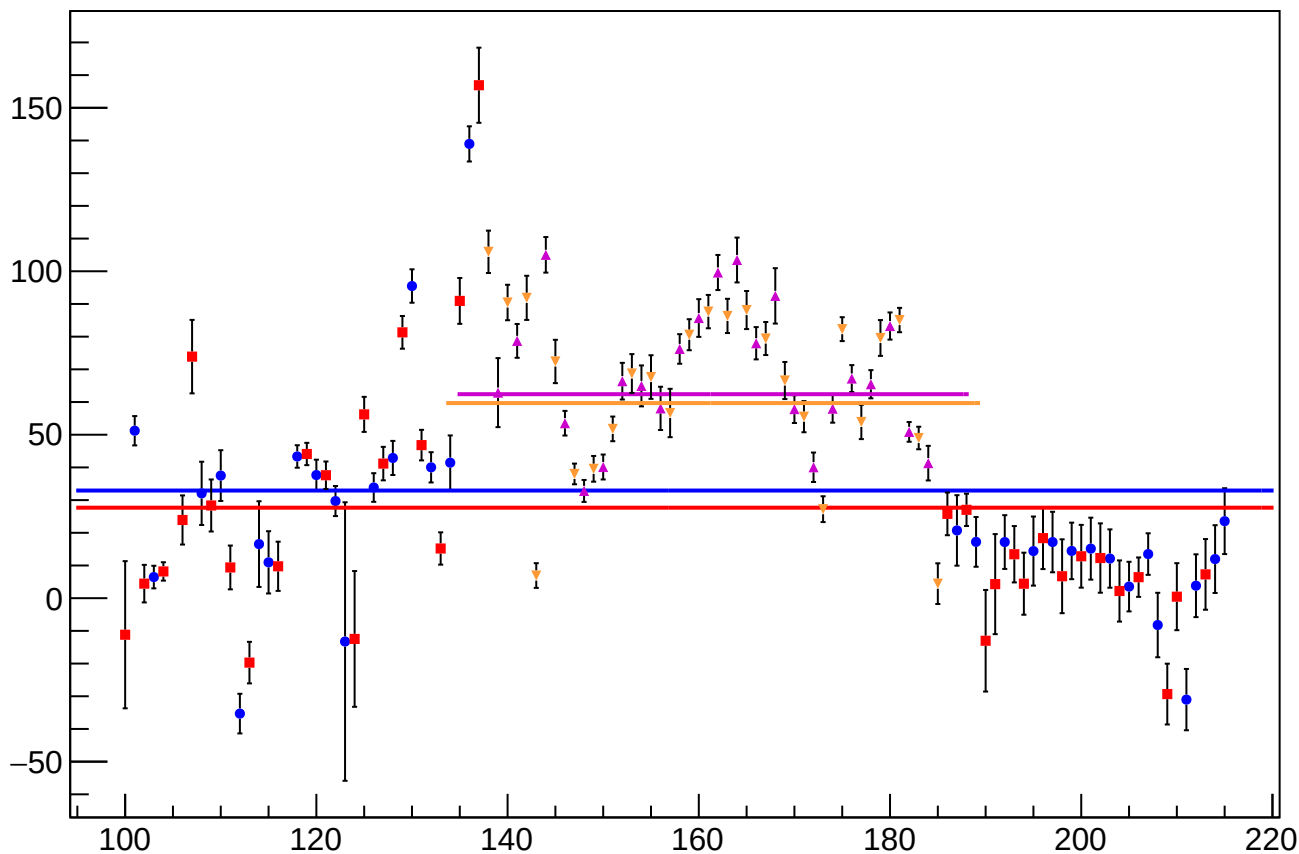
Right: 189.853 $\pm$ 0.731 χ^2 /NDF: 21047.5/65

In: 189.472 $\pm$ 0.765 χ^2 /NDF: 13418.3/54

Out: 192.922 $\pm$ 0.725 χ^2 /NDF: 19273.9/58

All: 191.289 $\pm$ 0.526 χ^2 /NDF: 32703.0/113

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.925 ± 1.120 $\chi^2/\text{NDF}: 897.1/31$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 27.682 ± 1.090 $\chi^2/\text{NDF}: 662.2/33$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

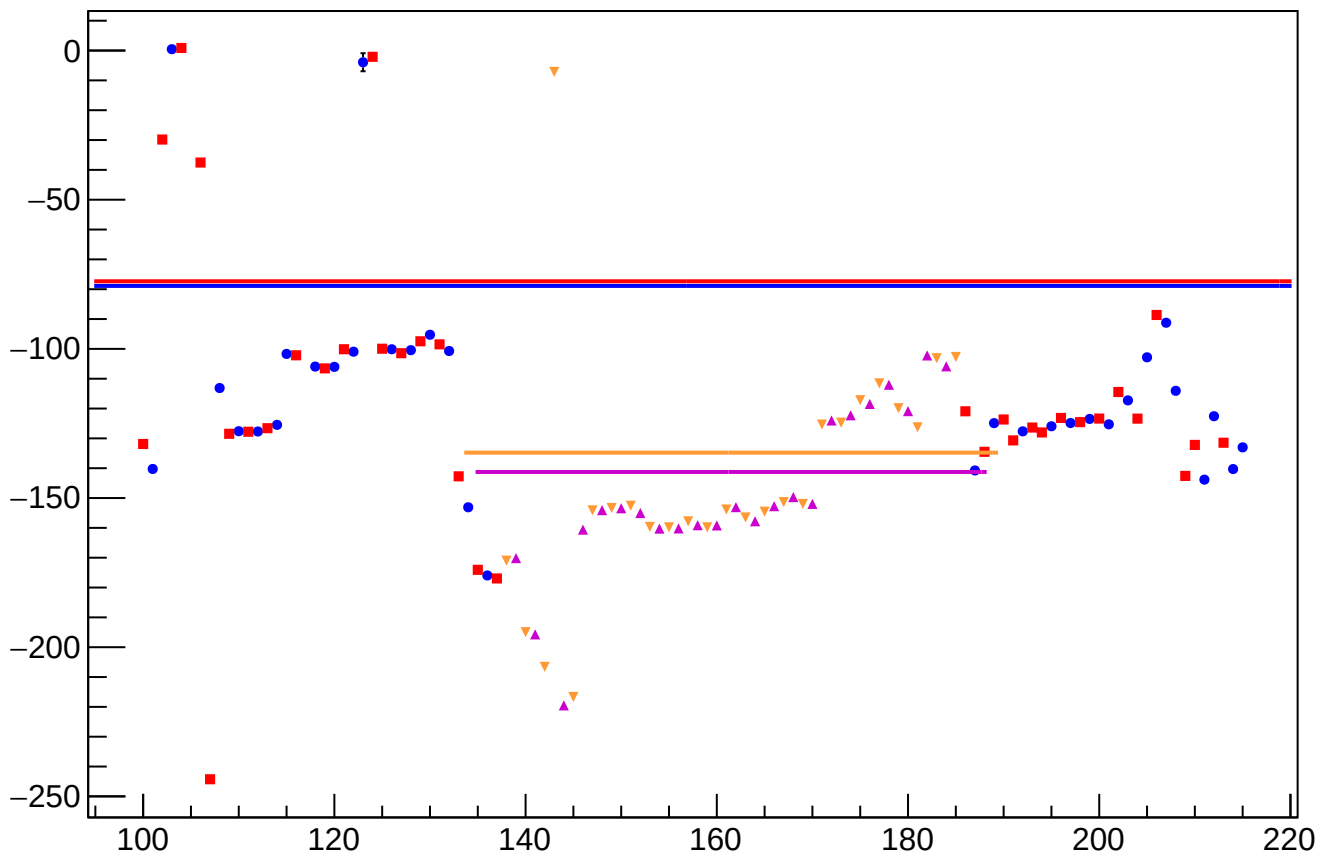
Right: 30.232 ± 0.781 $\chi^2/\text{NDF}: 1570.6/65$

In: 49.706 ± 0.735 $\chi^2/\text{NDF}: 1697.7/54$

Out: 46.018 ± 0.712 $\chi^2/\text{NDF}: 1913.8/58$

All: 47.804 ± 0.511 $\chi^2/\text{NDF}: 3624.5/113$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -78.895 $\pm$ 0.050 χ^2 /NDF: 1469439.8/31

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -77.340 $\pm$ 0.049 χ^2 /NDF: 1443026.2/33

Left In: -141.255 $\pm$ 0.045 χ^2 /NDF: 347229.8/22

Left: -137.961 $\pm$ 0.032 χ^2 /NDF: 1162377.9/47

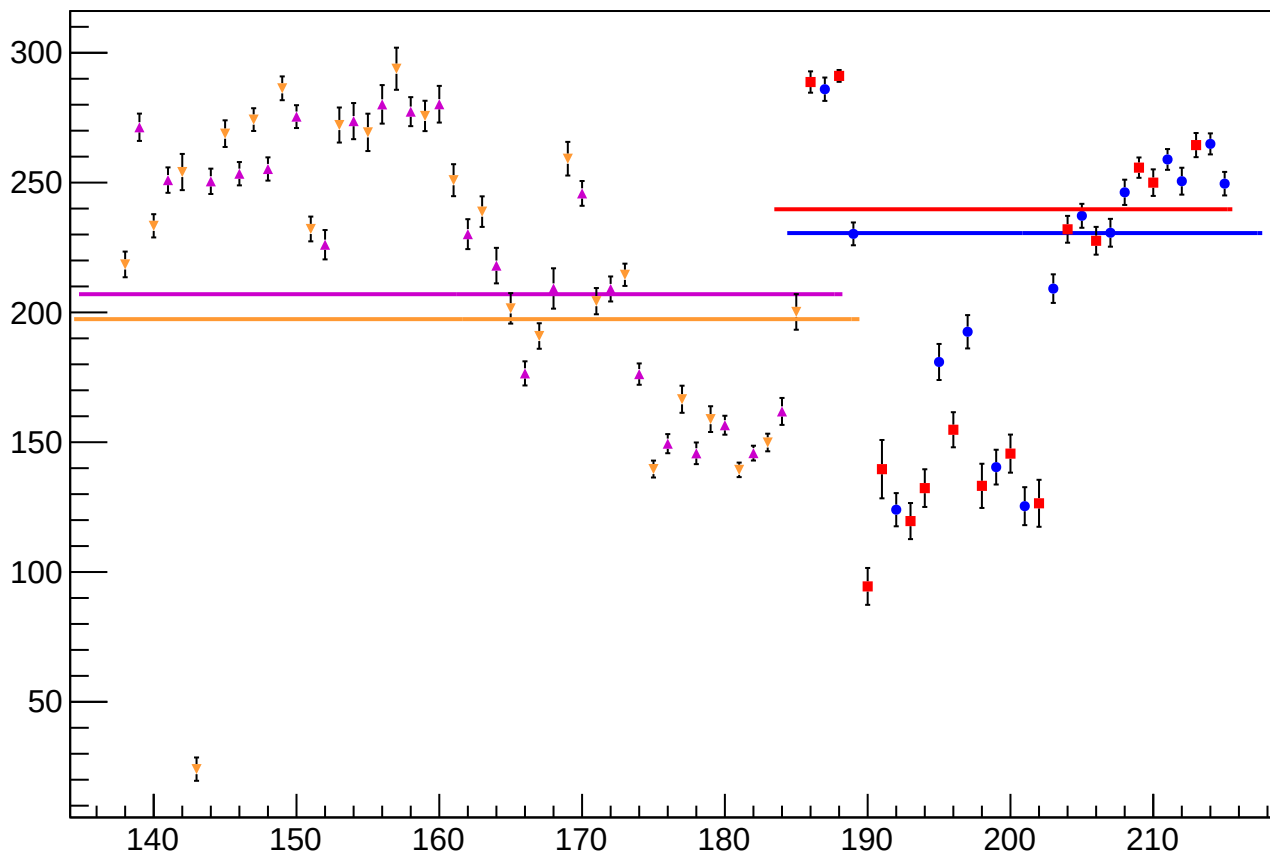
Right: -78.099 $\pm$ 0.035 χ^2 /NDF: 2912956.7/65

In: -113.281 $\pm$ 0.034 χ^2 /NDF: 2667099.1/54

Out: -108.833 $\pm$ 0.033 χ^2 /NDF: 3000293.6/58

All: -111.012 $\pm$ 0.024 χ^2 /NDF: 5676317.8/111

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 230.557 ± 1.315 $\chi^2/\text{NDF}: 1086.0/14$

Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$

Right Out: 239.729 ± 1.283 $\chi^2/\text{NDF}: 2357.2/14$

Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$

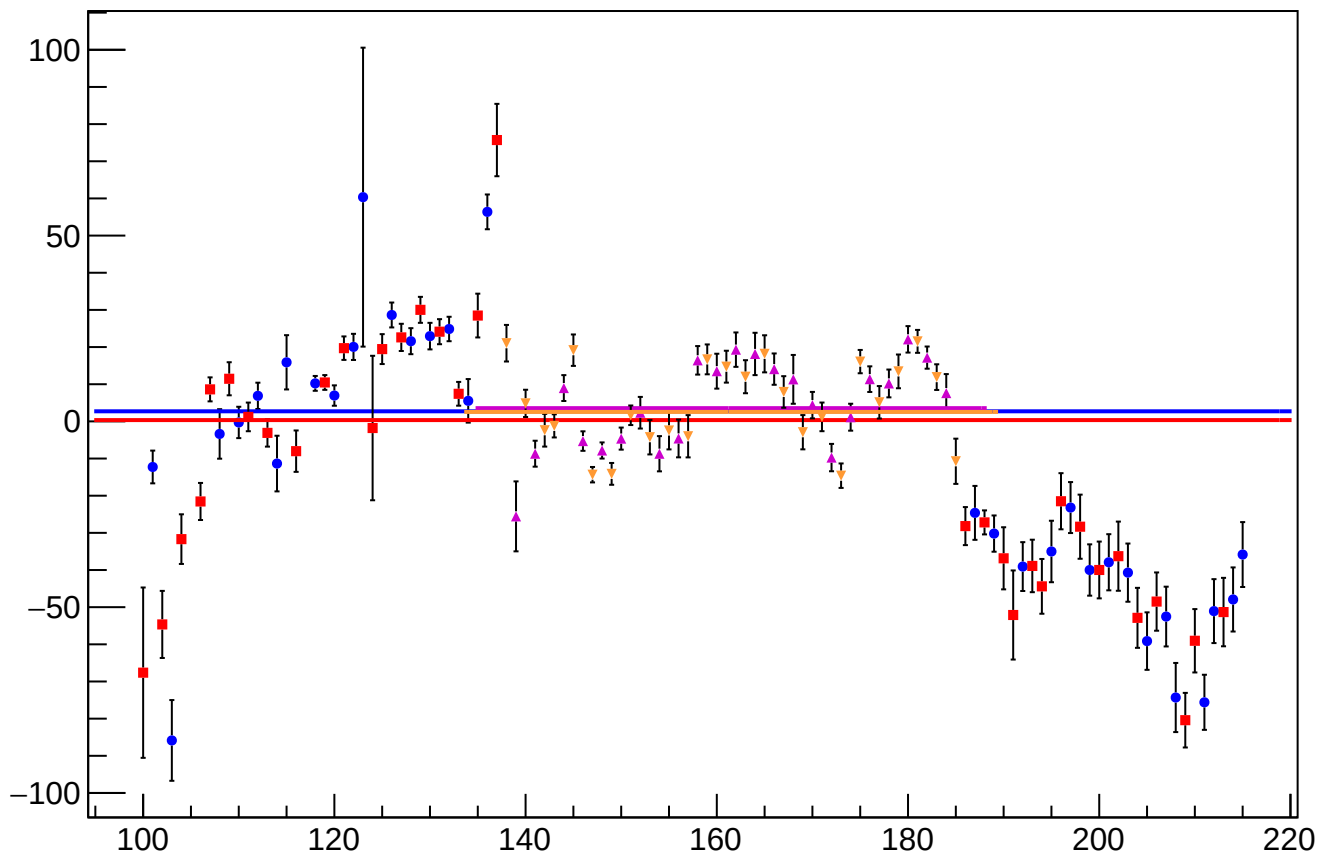
Right: 235.257 ± 0.918 $\chi^2/\text{NDF}: 3468.1/29$

In: 215.532 ± 0.791 $\chi^2/\text{NDF}: 3902.0/37$

Out: 212.657 ± 0.770 $\chi^2/\text{NDF}: 7437.5/39$

All: 214.056 ± 0.552 $\chi^2/\text{NDF}: 11346.3/77$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.712 ± 0.841 χ^2/NDF : 1045.9/31

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 0.347 ± 0.810 χ^2/NDF : 992.7/33

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

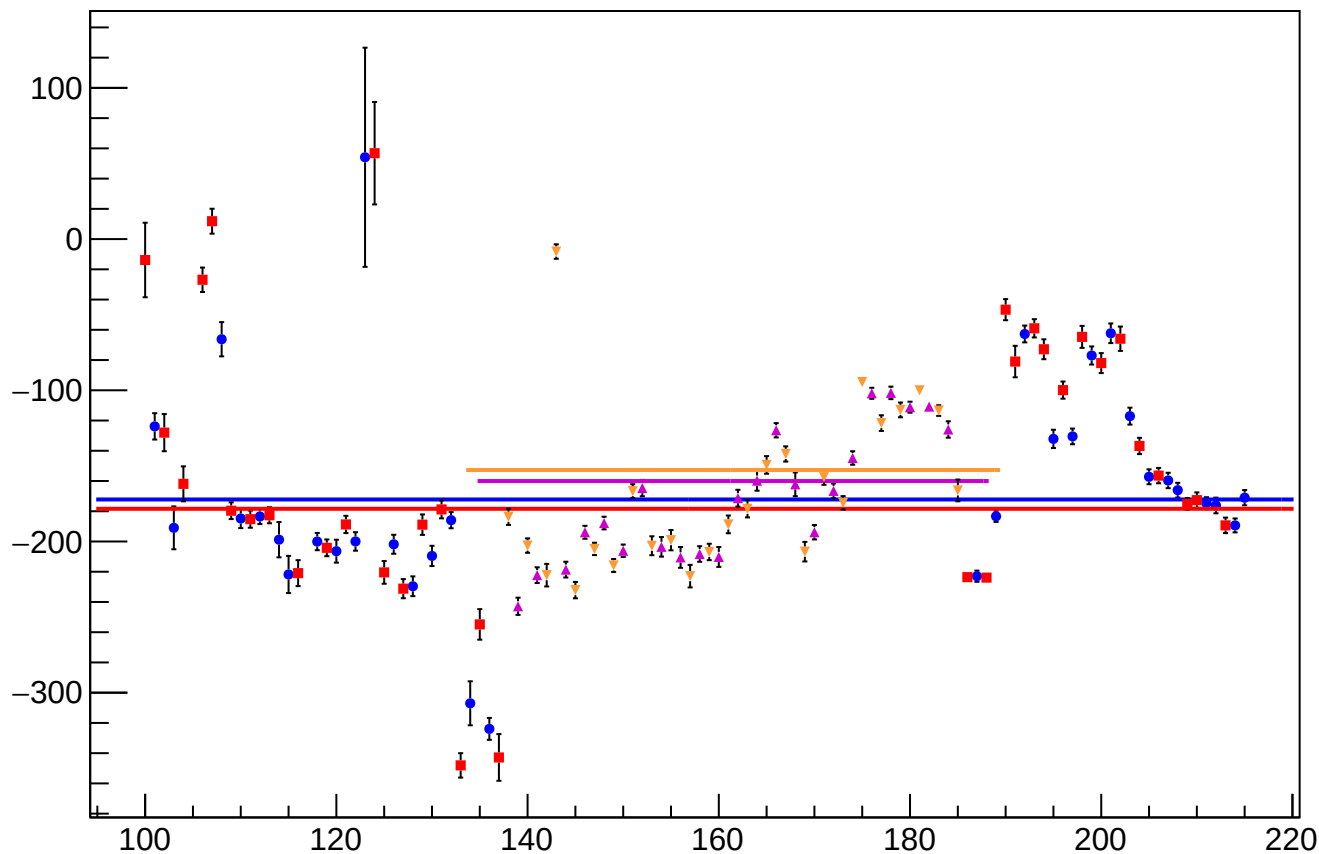
Right: 1.485 ± 0.583 χ^2/NDF : 2042.7/65

In: 3.171 ± 0.570 χ^2/NDF : 1238.5/54

Out: 1.545 ± 0.547 χ^2/NDF : 1272.2/58

All: 2.325 ± 0.394 χ^2/NDF : 2514.9/113

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -172.210 ± 1.030 $\chi^2/\text{NDF}: 2248.3/31$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -178.371 ± 0.947 $\chi^2/\text{NDF}: 4584.8/33$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

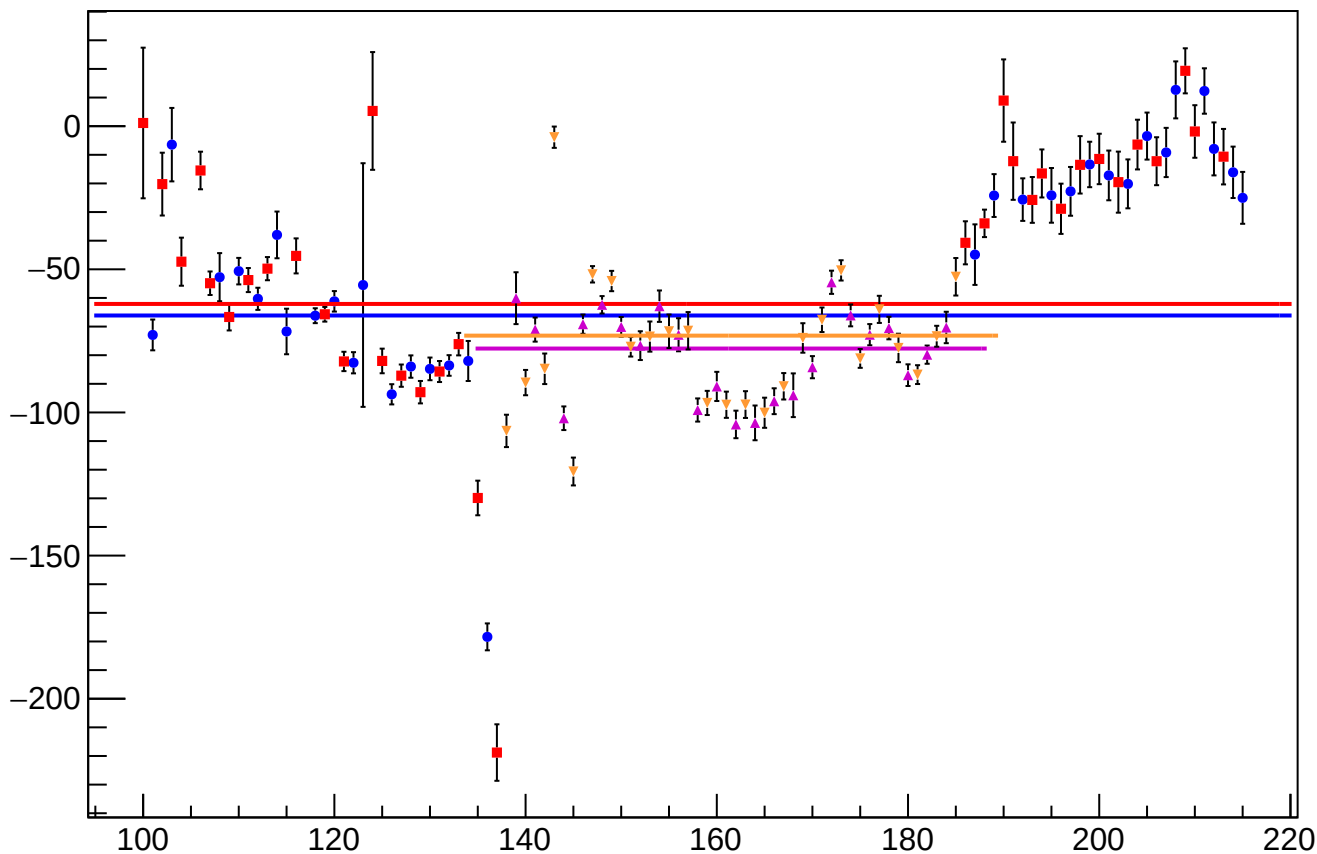
Right: -175.550 ± 0.697 $\chi^2/\text{NDF}: 6852.4/65$

In: -165.866 ± 0.713 $\chi^2/\text{NDF}: 4345.5/54$

Out: -165.825 ± 0.677 $\chi^2/\text{NDF}: 8021.3/58$

All: -165.844 ± 0.491 $\chi^2/\text{NDF}: 12366.9/113$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -66.132 ± 0.974 $\chi^2/\text{NDF}: 1345.4/31$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -62.095 ± 0.948 $\chi^2/\text{NDF}: 1175.8/33$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

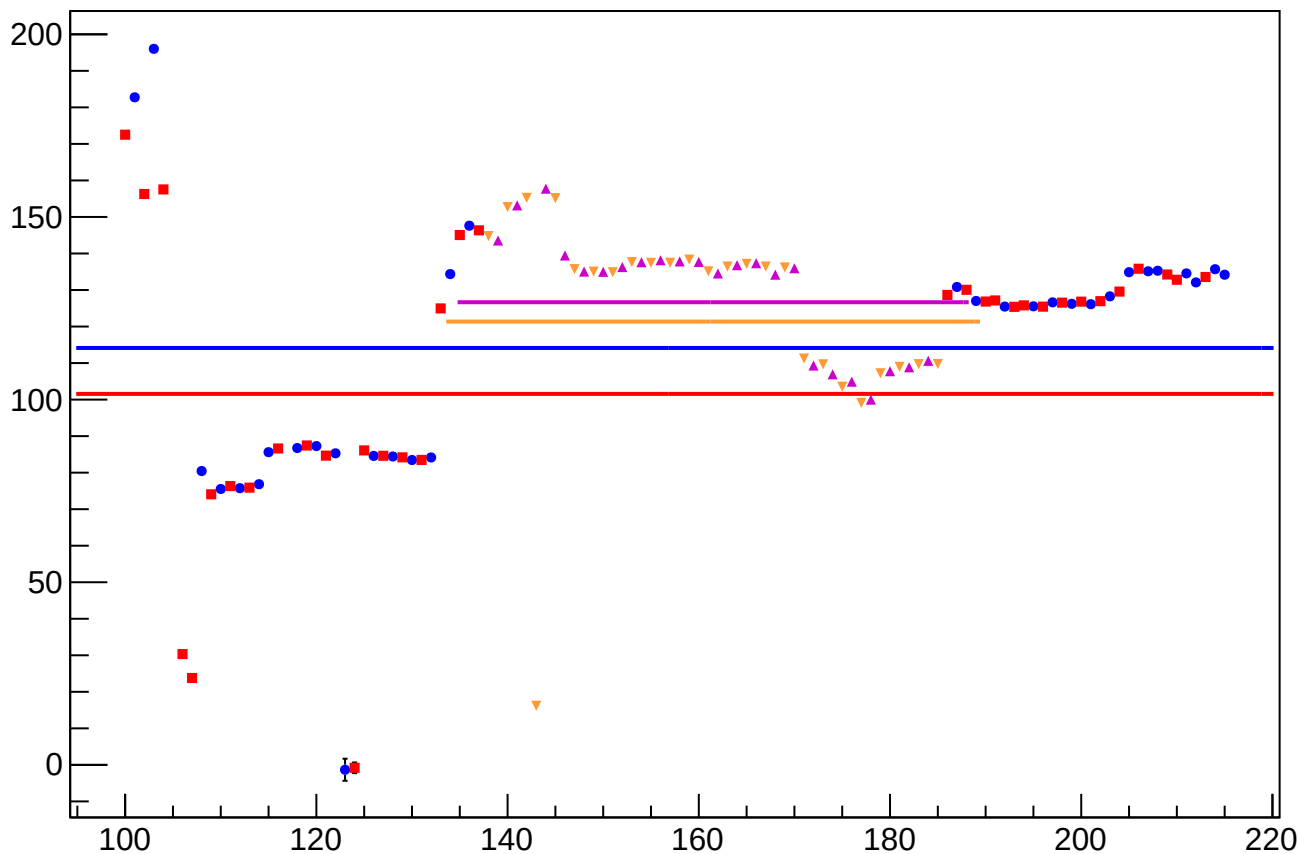
Right: -64.059 ± 0.679 $\chi^2/\text{NDF}: 2530.0/65$

In: -72.470 ± 0.654 $\chi^2/\text{NDF}: 1670.8/54$

Out: -68.224 ± 0.633 $\chi^2/\text{NDF}: 2039.9/58$

All: -70.279 ± 0.455 $\chi^2/\text{NDF}: 3732.5/113$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.139 $\pm$ 0.054 χ^2 /NDF: 328174.8/31

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 101.562 $\pm$ 0.050 χ^2 /NDF: 599530.2/33

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

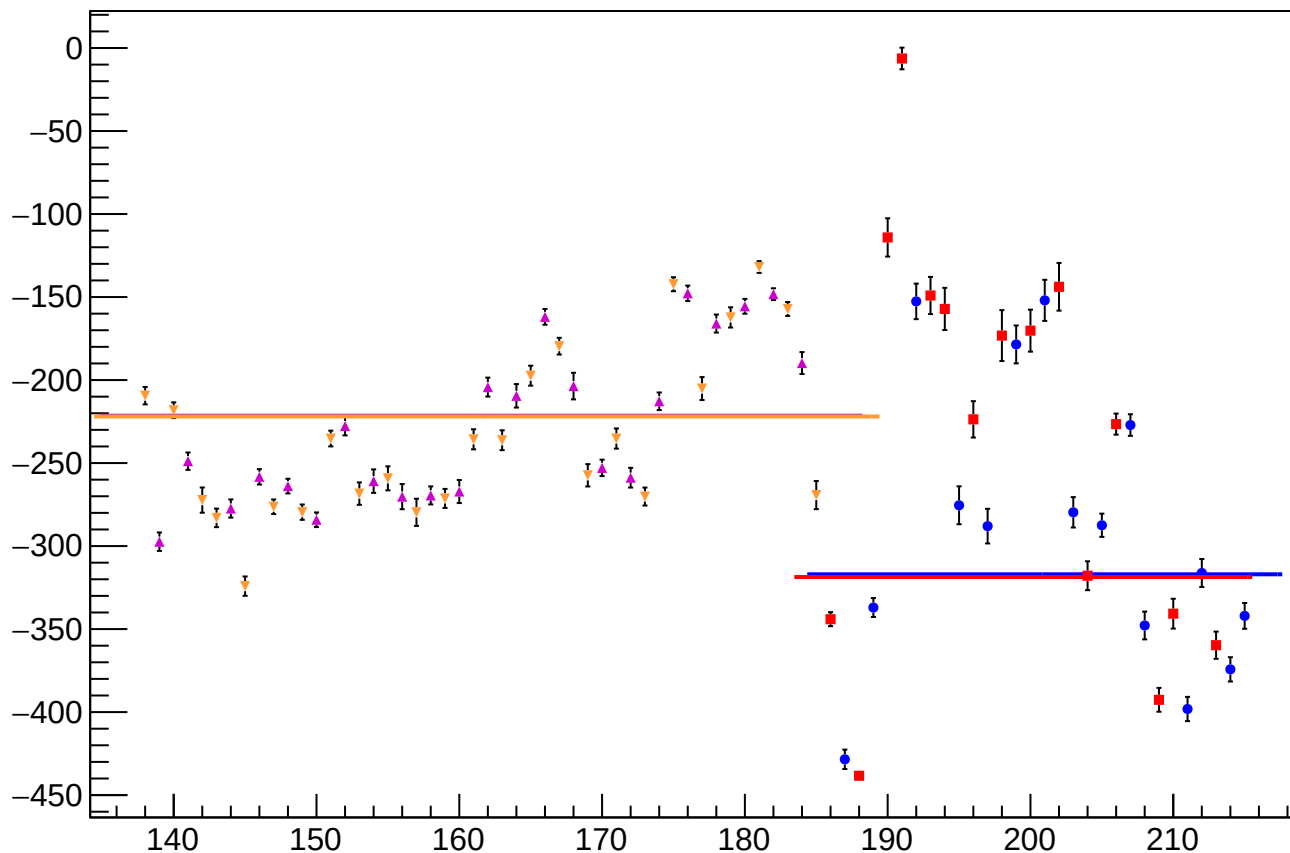
Right: 107.376 $\pm$ 0.037 χ^2 /NDF: 956730.7/65

In: 122.081 $\pm$ 0.033 χ^2 /NDF: 525128.9/54

Out: 113.597 $\pm$ 0.031 χ^2 /NDF: 1176056.6/58

All: 117.667 $\pm$ 0.023 χ^2 /NDF: 1736155.3/113

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -317.003 ± 2.048 χ^2/NDF : 1393.3/14

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -318.643 ± 1.771 χ^2/NDF : 5391.6/14

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

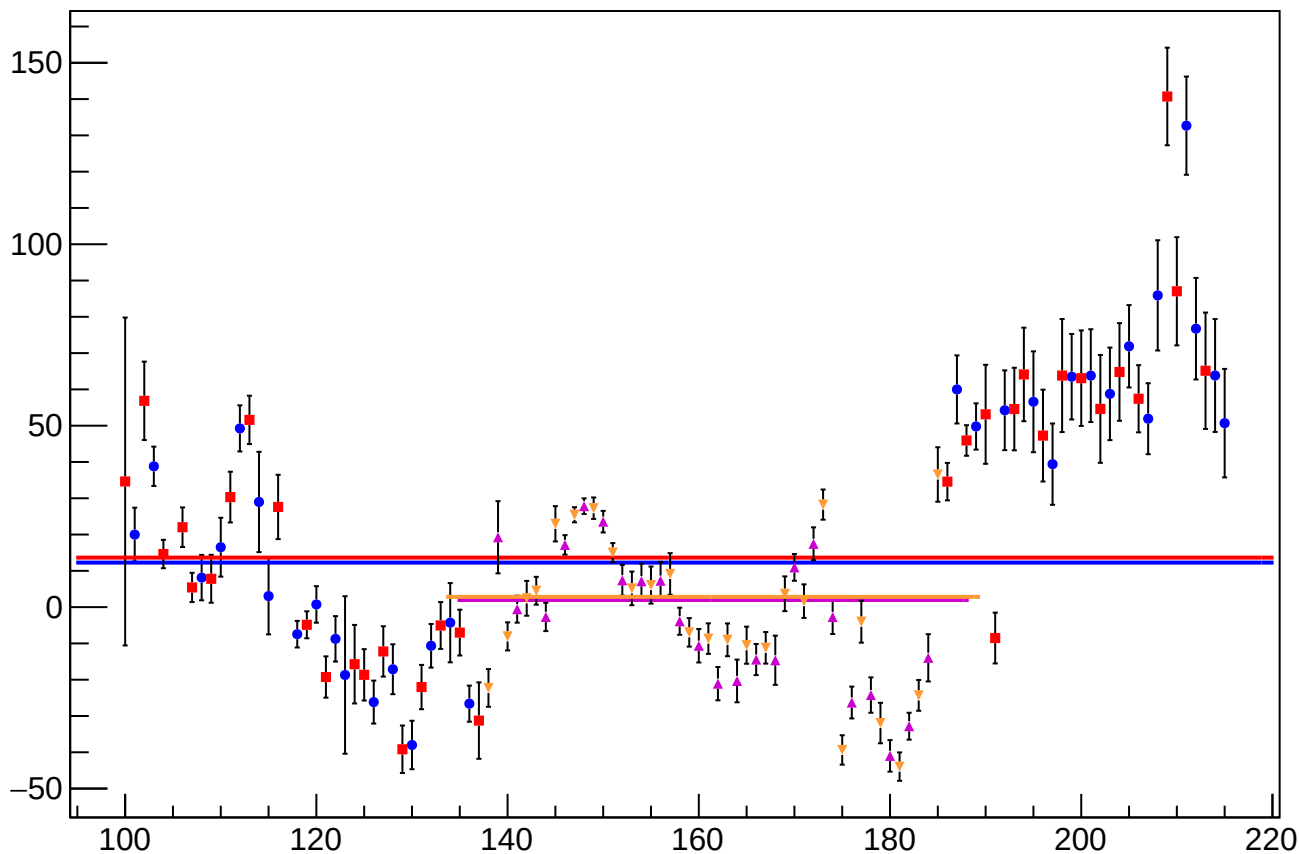
Right: -317.941 ± 1.340 χ^2/NDF : 6785.3/29

In: -242.941 ± 0.971 χ^2/NDF : 5230.2/37

Out: -248.300 ± 0.925 χ^2/NDF : 10138.2/39

All: -245.749 ± 0.670 χ^2/NDF : 15384.3/77

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.273+/-1.360 χ^2/NDF : 629.3/31

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 13.646+/-1.200 χ^2/NDF : 622.6/33

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

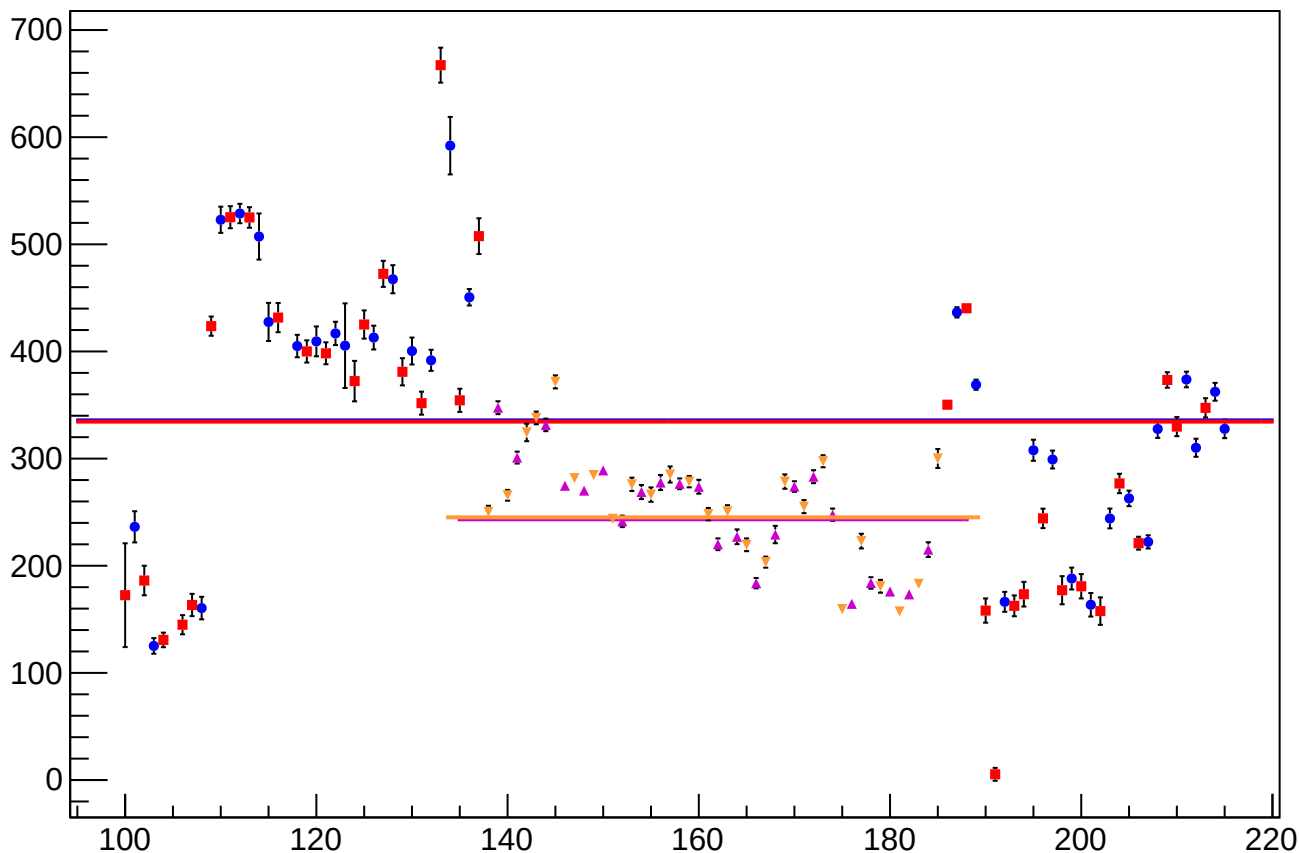
Right: 13.045+/-0.900 χ^2/NDF : 1252.5/65

In: 4.788+/-0.711 χ^2/NDF : 1260.1/54

Out: 6.200+/-0.670 χ^2/NDF : 1365.4/58

All: 5.537+/-0.488 χ^2/NDF : 2627.6/113

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 335.686+/-1.575 χ^2/NDF : 4485.5/31

Left Out: 245.179+/-1.082 χ^2/NDF : 2597.4/24

Right Out: 334.538+/-1.316 χ^2/NDF : 10099.5/33

Left In: 243.366+/-1.094 χ^2/NDF : 2236.7/22

Left: 244.282+/-0.769 χ^2/NDF : 4835.5/47

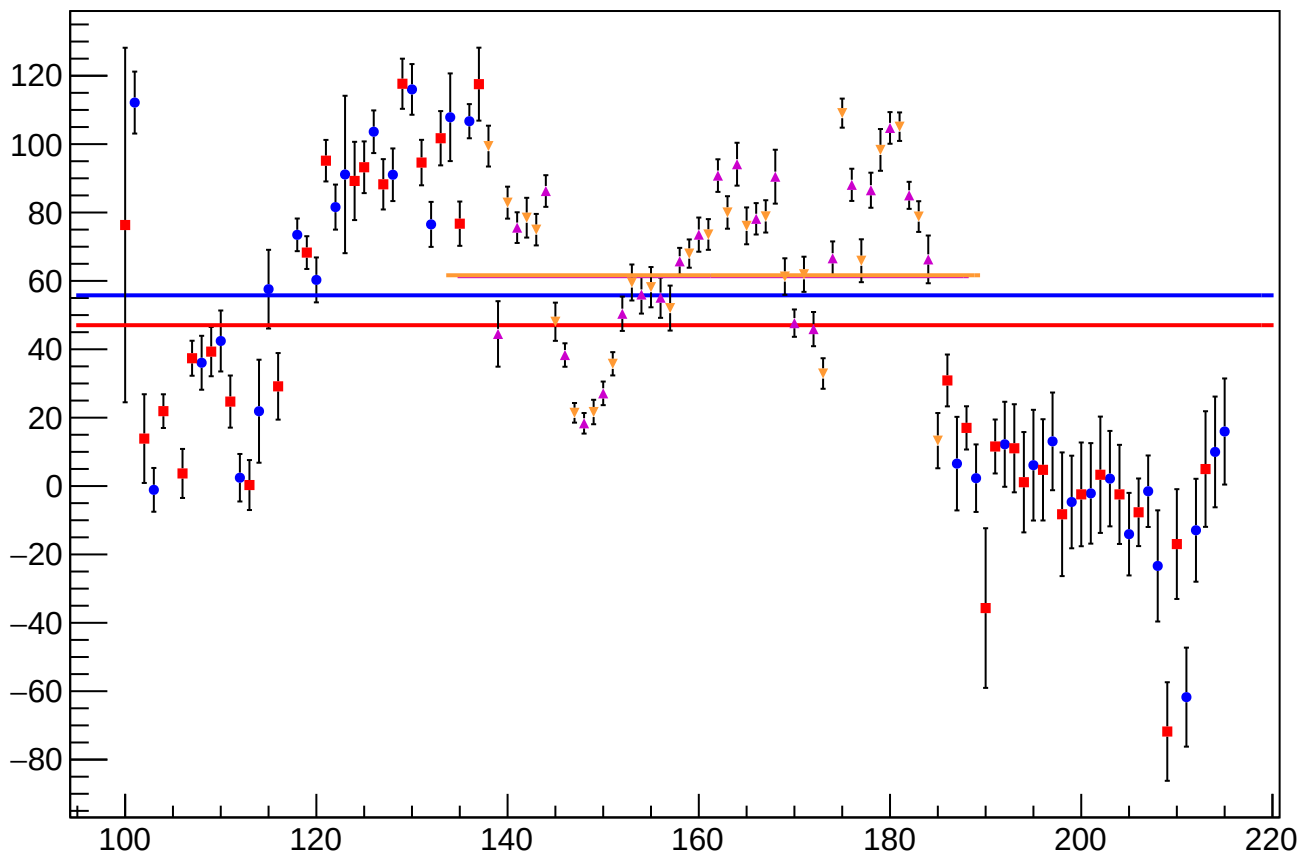
Right: 335.010+/-1.010 χ^2/NDF : 14585.3/65

In: 273.391+/-0.898 χ^2/NDF : 9039.7/54

Out: 281.228+/-0.836 χ^2/NDF : 15448.3/58

All: 277.592+/-0.612 χ^2/NDF : 24528.8/113

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.780 $\pm$ 1.576 χ^2 /NDF: 809.9/31

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 47.045 $\pm$ 1.431 χ^2 /NDF: 792.3/33

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

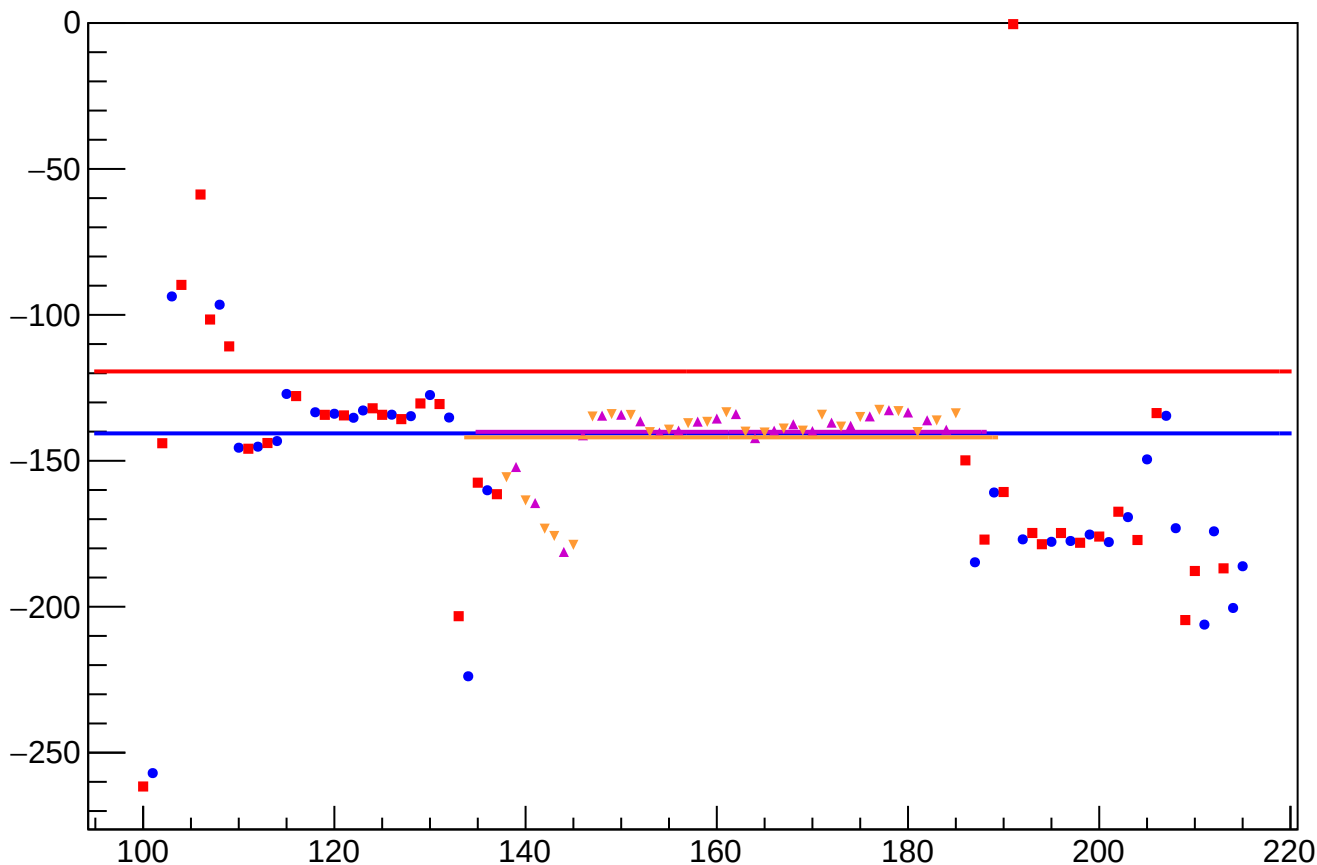
Right: 50.993 $\pm$ 1.059 χ^2 /NDF: 1619.1/65

In: 59.858 $\pm$ 0.820 χ^2 /NDF:1518.8/54

Out: 57.270 $\pm$ 0.783 χ^2 /NDF:1736.8/58

All: 58.504 $\pm$ 0.567 χ^2 /NDF: 3260.8/113

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -140.606+/-0.075 χ^2 /NDF: 256192.8/31

Left Out: -141.969+/-0.045 χ^2 /NDF: 80252.6/24

Right Out: -119.381+/-0.067 χ^2 /NDF: 640440.2/33

Left In: -140.068+/-0.045 χ^2 /NDF: 48030.7/22

Left: -141.025+/-0.032 χ^2 /NDF: 129181.1/47

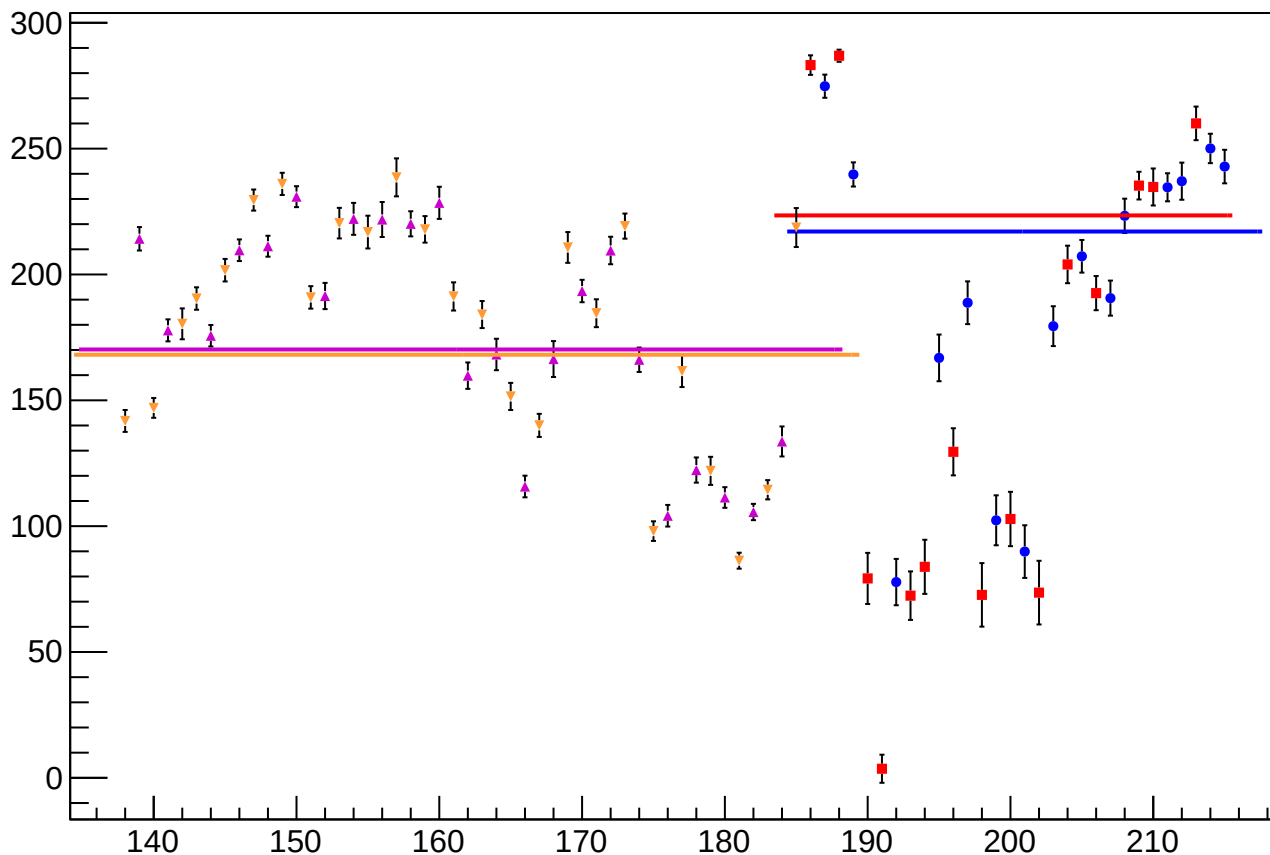
Right: -128.811+/-0.050 χ^2 /NDF: 941711.5/65

In: -140.212+/-0.039 χ^2 /NDF: 304261.6/54

Out: -134.959+/-0.037 χ^2 /NDF: 799939.4/58

All: -137.488+/-0.027 χ^2 /NDF: 1113843.5/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.070 $\pm$ 1.737 χ^2 /NDF: 834.9/14

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 223.467 $\pm$ 1.498 χ^2 /NDF: 3668.4/14

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

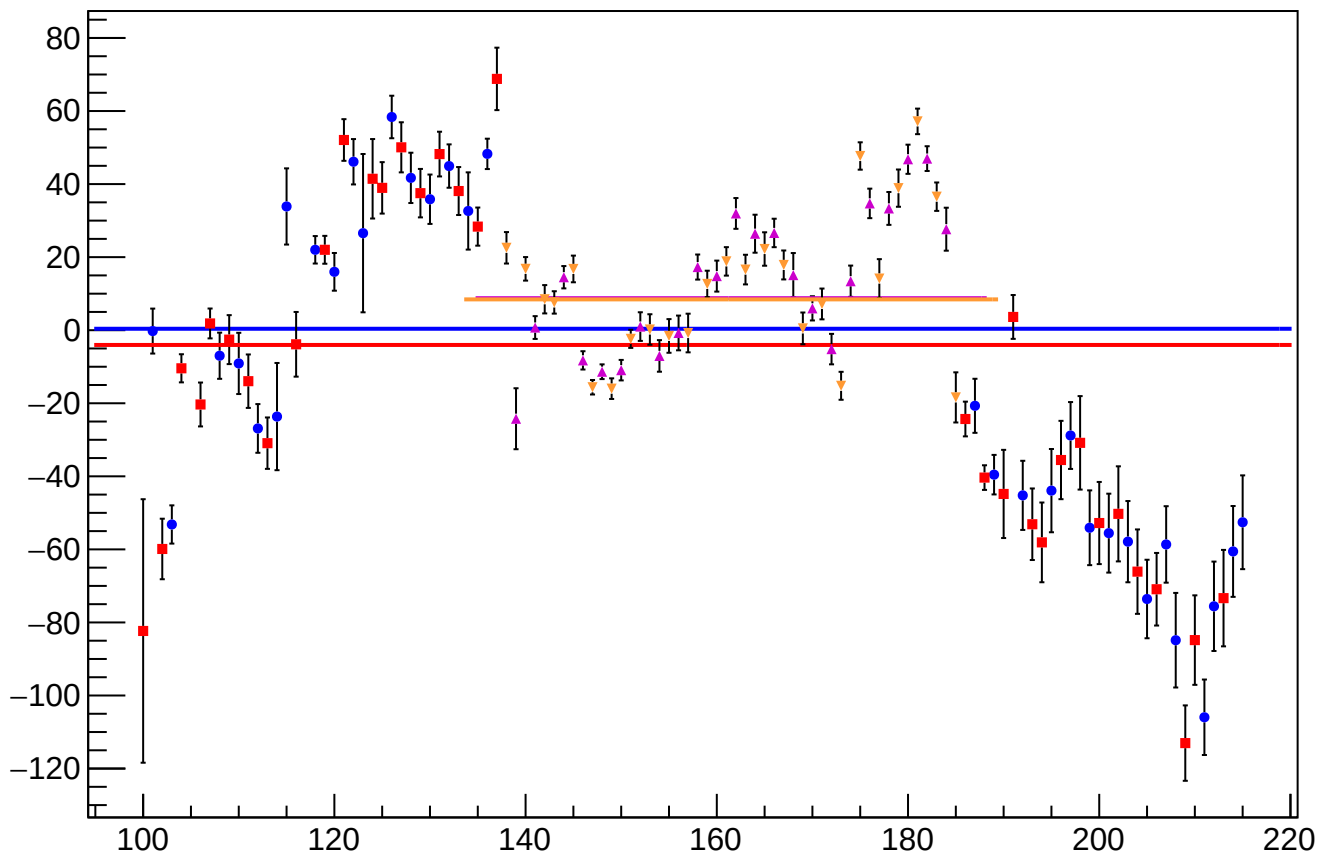
Right: 220.738 $\pm$ 1.134 χ^2 /NDF: 4511.1/29

In: 181.786 $\pm$ 0.864 χ^2 /NDF:3407.6/37

Out: 184.468 $\pm$ 0.814 χ^2 /NDF:7099.4/39

All: 183.206 $\pm$ 0.592 χ^2 /NDF: 10512.1/77

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.395 ± 1.286 $\chi^2/\text{NDF}: 1098.1/31$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -4.037 ± 1.139 $\chi^2/\text{NDF}: 1101.9/33$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

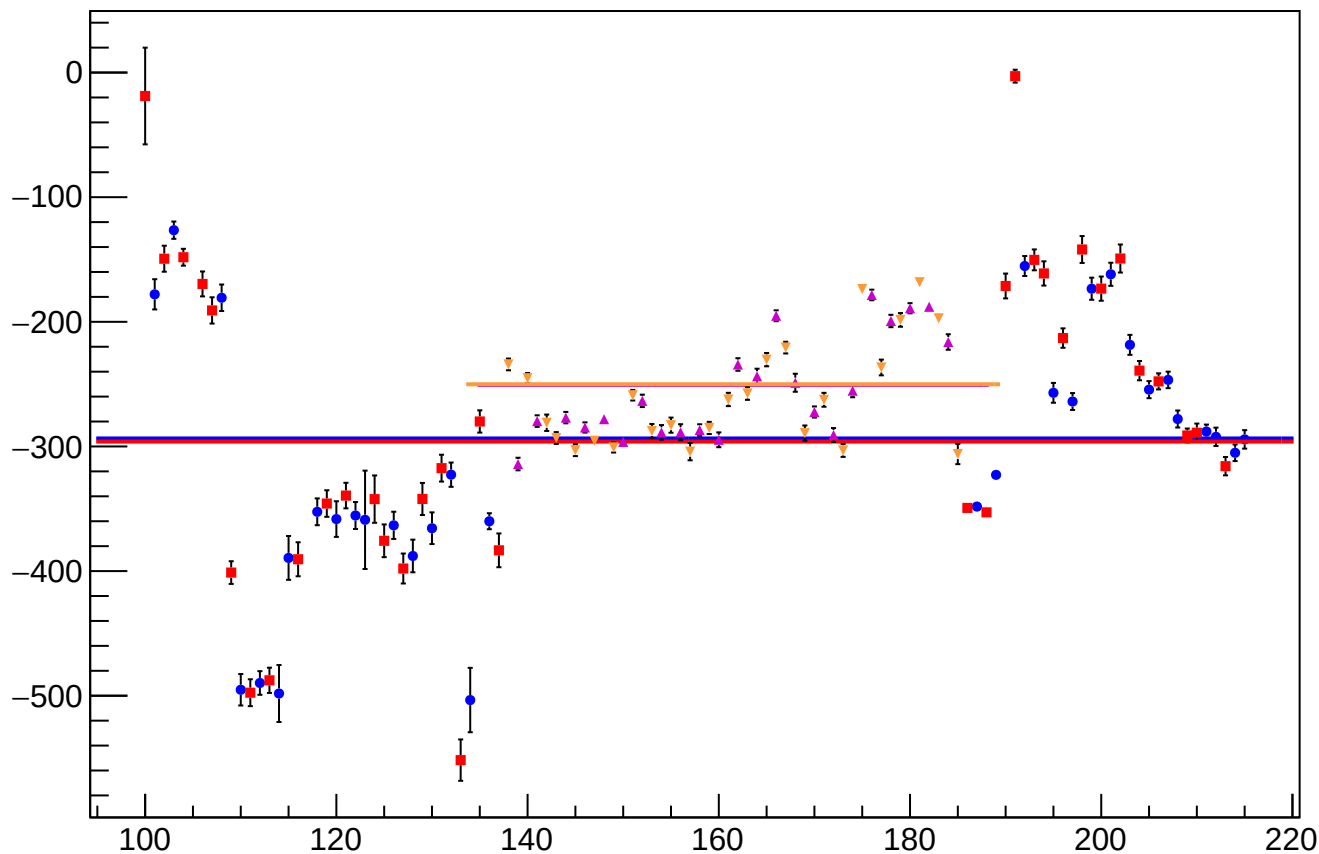
Right: -2.089 ± 0.853 $\chi^2/\text{NDF}: 2206.6/65$

In: 6.609 ± 0.653 $\chi^2/\text{NDF}: 1756.4/54$

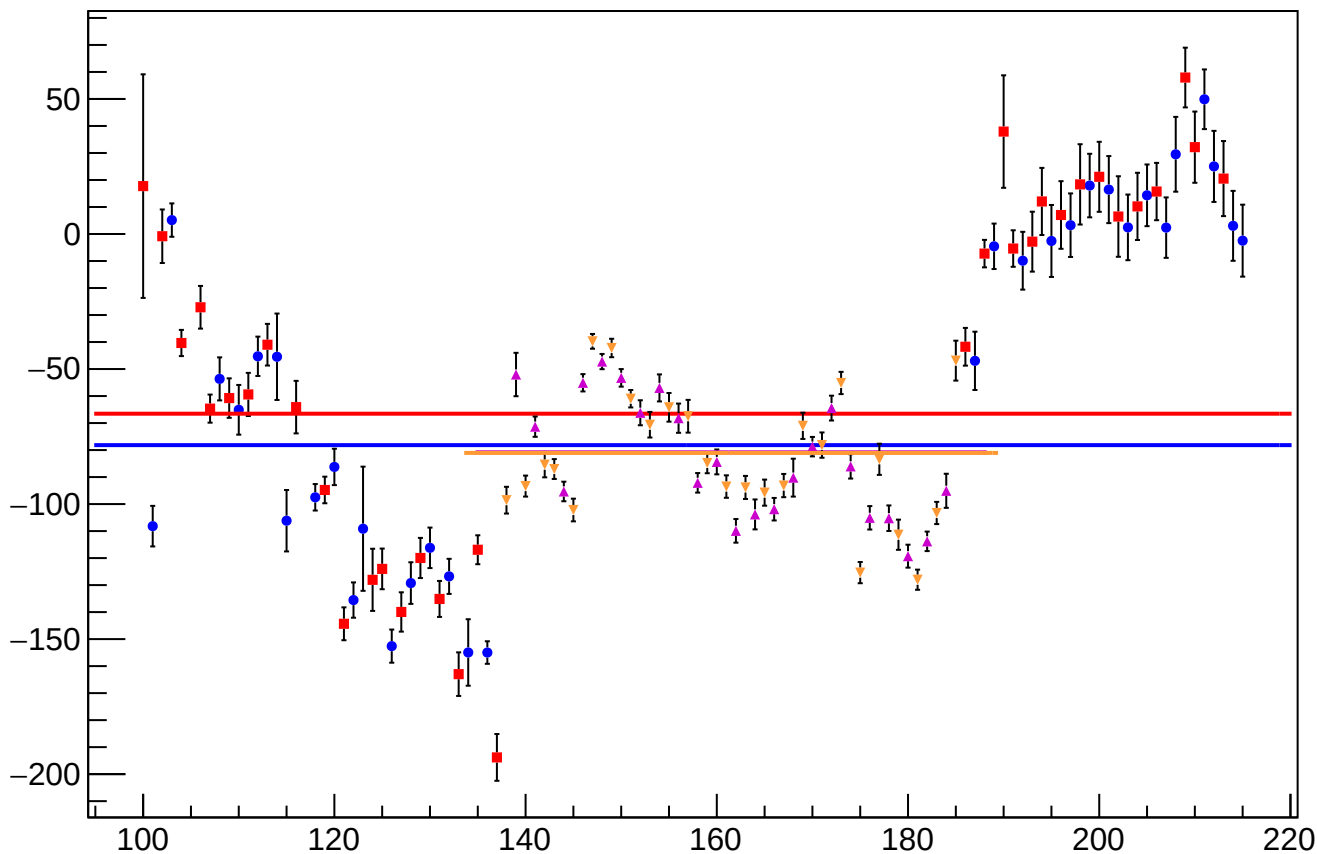
Out: 4.820 ± 0.613 $\chi^2/\text{NDF}: 1939.0/58$

All: 5.658 ± 0.447 $\chi^2/\text{NDF}: 3699.4/113$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -78.176 ± 1.489 $\chi^2/\text{NDF}: 1806.0/31$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -66.538 ± 1.363 $\chi^2/\text{NDF}: 1889.9/33$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

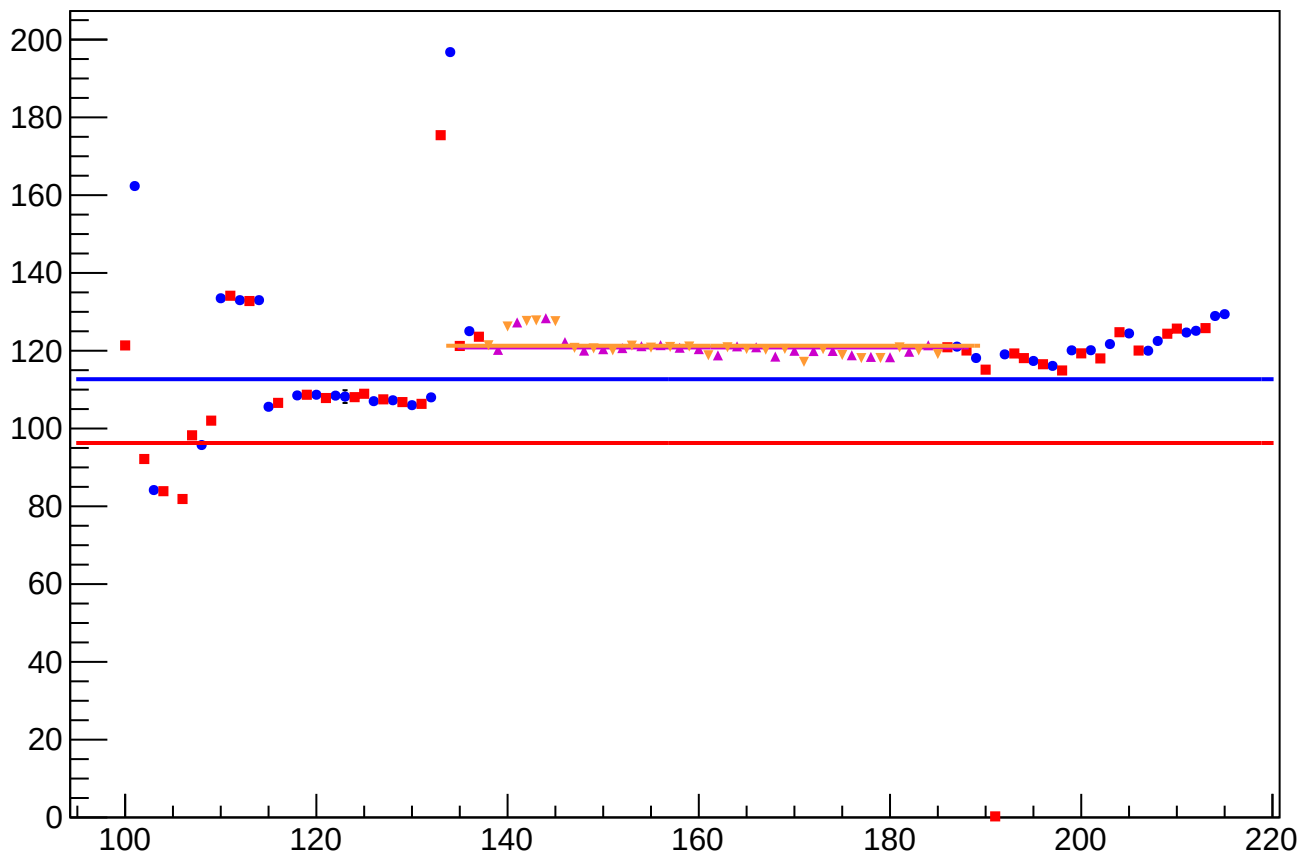
Right: -71.843 ± 1.005 $\chi^2/\text{NDF}: 3729.2/65$

In: -80.155 ± 0.752 $\chi^2/\text{NDF}: 2501.5/54$

Out: -77.039 ± 0.717 $\chi^2/\text{NDF}: 2885.1/58$

All: -78.522 ± 0.519 $\chi^2/\text{NDF}: 5395.5/113$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.681 $\pm$ 0.069 χ^2 /NDF: 81126.4/31

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.278 $\pm$ 0.061 χ^2 /NDF: 370798.2/33

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

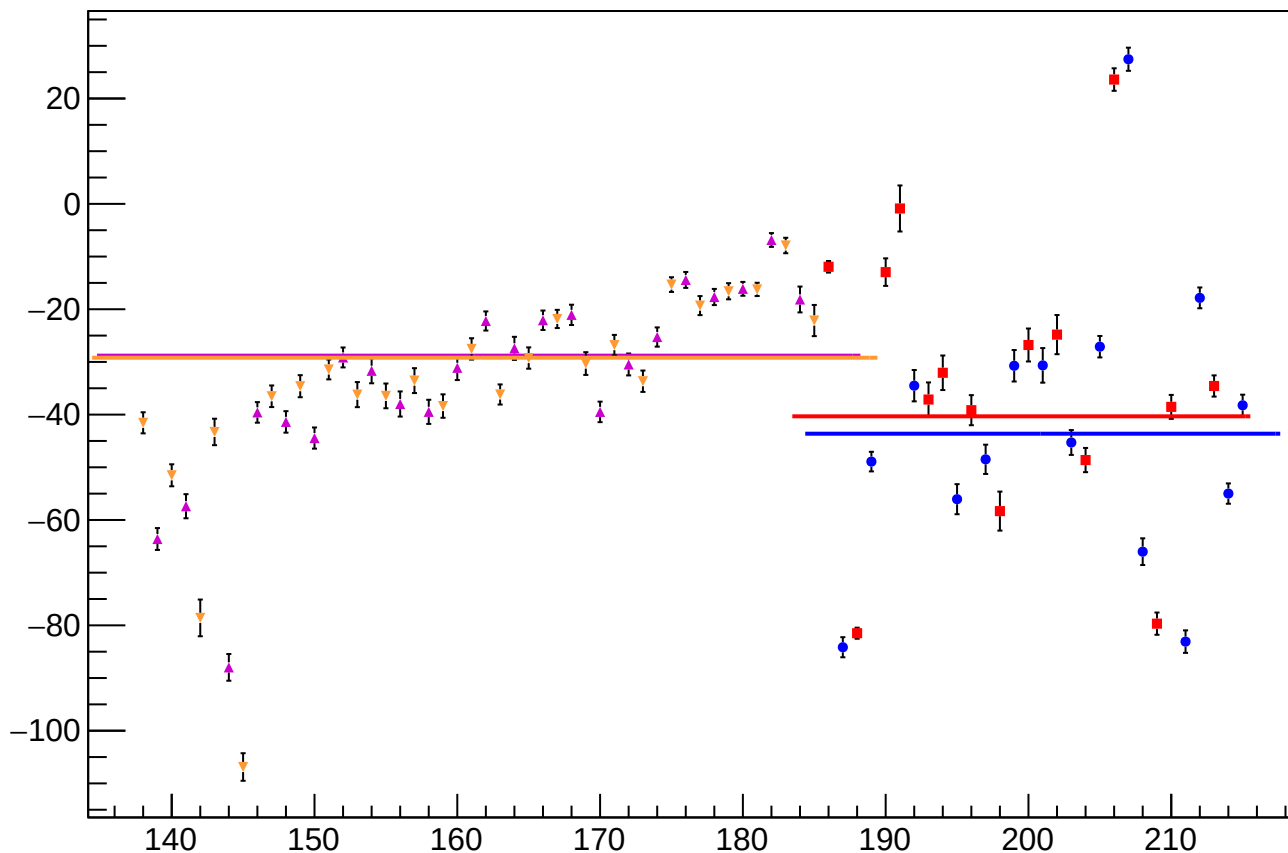
Right: 103.559 $\pm$ 0.046 χ^2 /NDF: 483548.8/65

In: 118.727 $\pm$ 0.035 χ^2 /NDF: 94925.1/54

Out: 113.815 $\pm$ 0.034 χ^2 /NDF: 491850.7/58

All: 116.168 $\pm$ 0.024 χ^2 /NDF: 597021.7/113

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -43.624 ± 0.586 χ^2/NDF : 2271.1/14

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -40.325 ± 0.530 χ^2/NDF : 3729.1/14

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

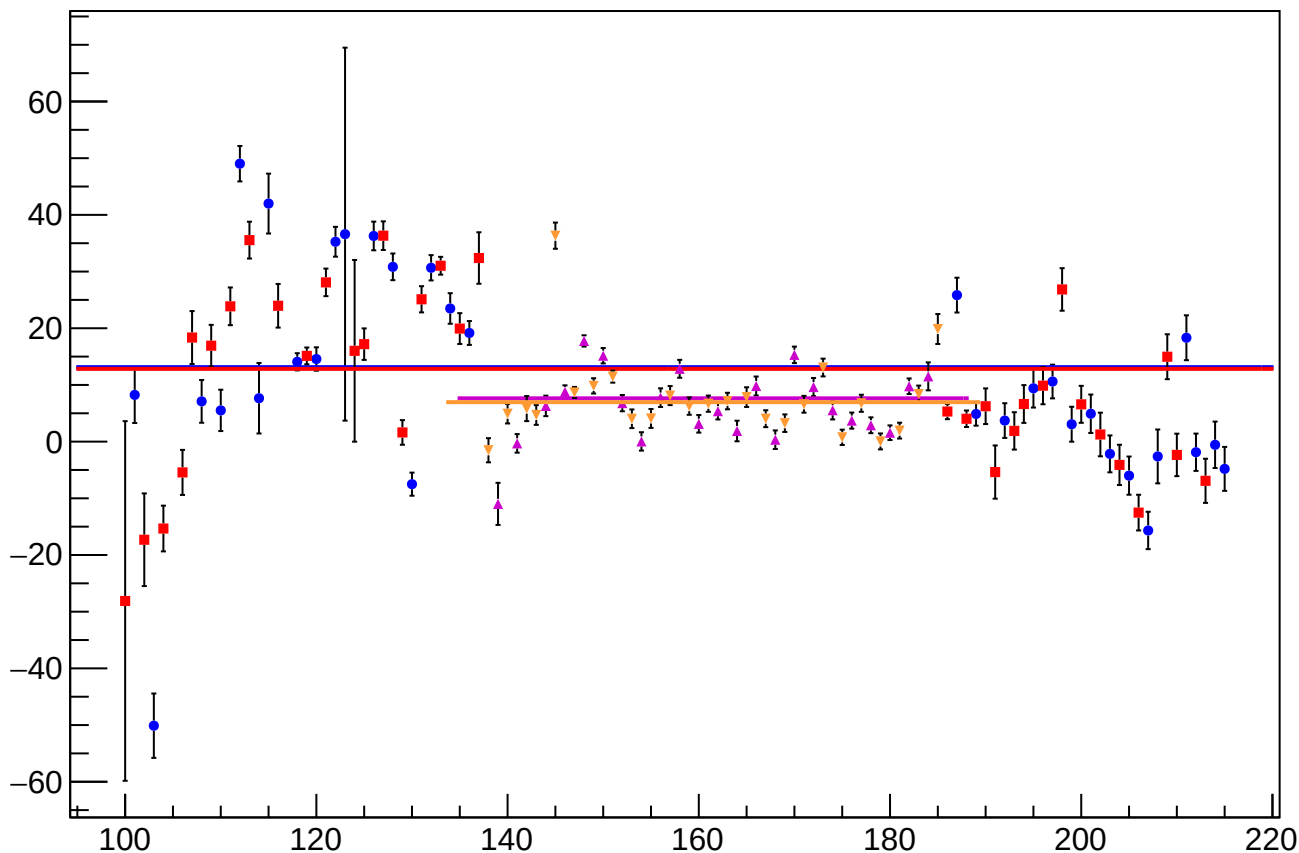
Right: -41.807 ± 0.393 χ^2/NDF : 6017.6/29

In: -33.441 ± 0.328 χ^2/NDF : 4473.9/37

Out: -33.093 ± 0.313 χ^2/NDF : 5897.5/39

All: -33.259 ± 0.226 χ^2/NDF : 10372.0/77

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.136 $\pm$ 0.514 χ^2 /NDF: 952.5/31

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.837 $\pm$ 0.473 χ^2 /NDF: 760.5/33

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

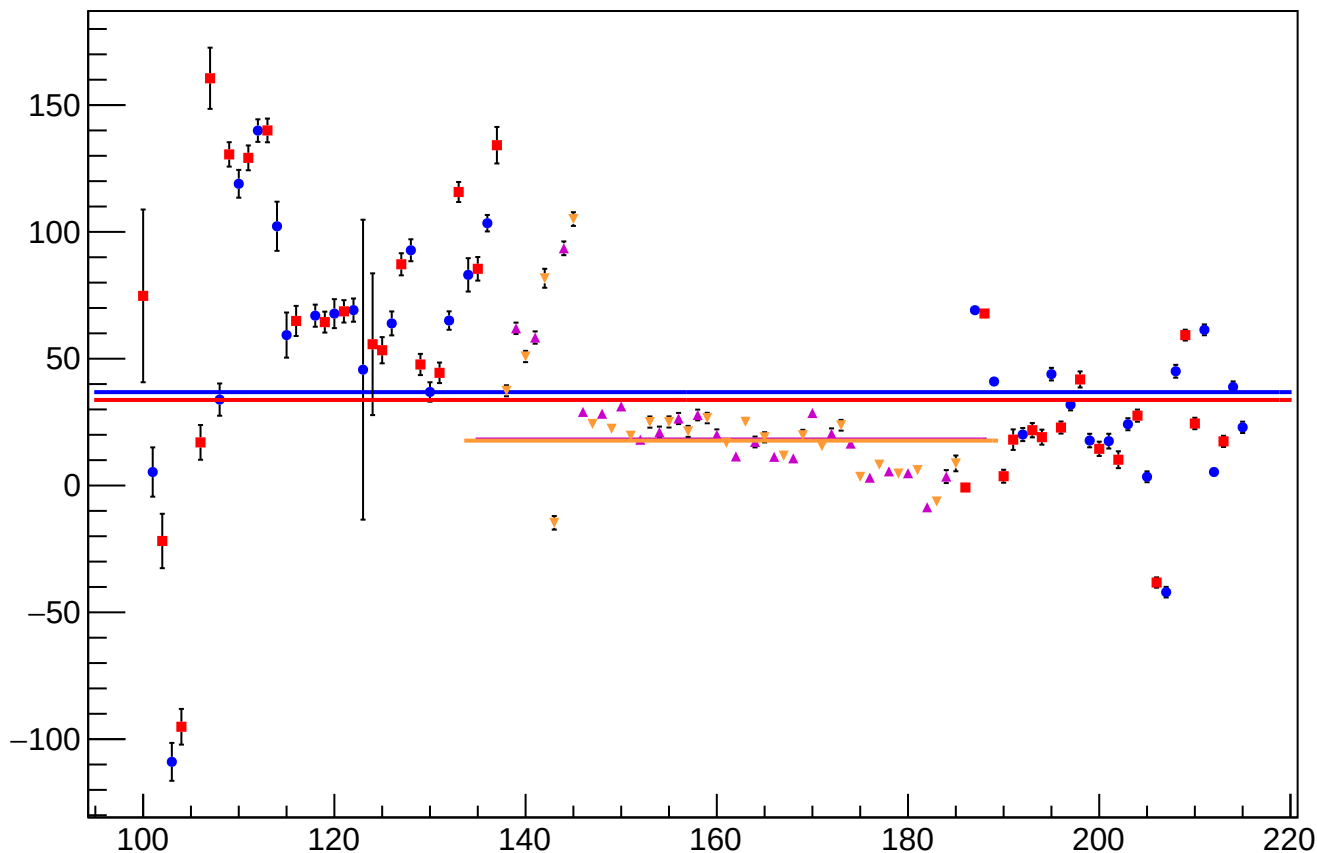
Right: 12.974 $\pm$ 0.348 χ^2 /NDF: 1713.2/65

In: 9.127 $\pm$ 0.268 χ^2 /NDF:1373.5/54

Out: 8.671 $\pm$ 0.255 χ^2 /NDF:1191.4/58

All: 8.888 $\pm$ 0.185 χ^2 /NDF: 2566.4/113

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.820 $\pm$ 0.507 χ^2 /NDF: 4774.3/31

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.738 $\pm$ 0.432 χ^2 /NDF: 7825.3/33

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

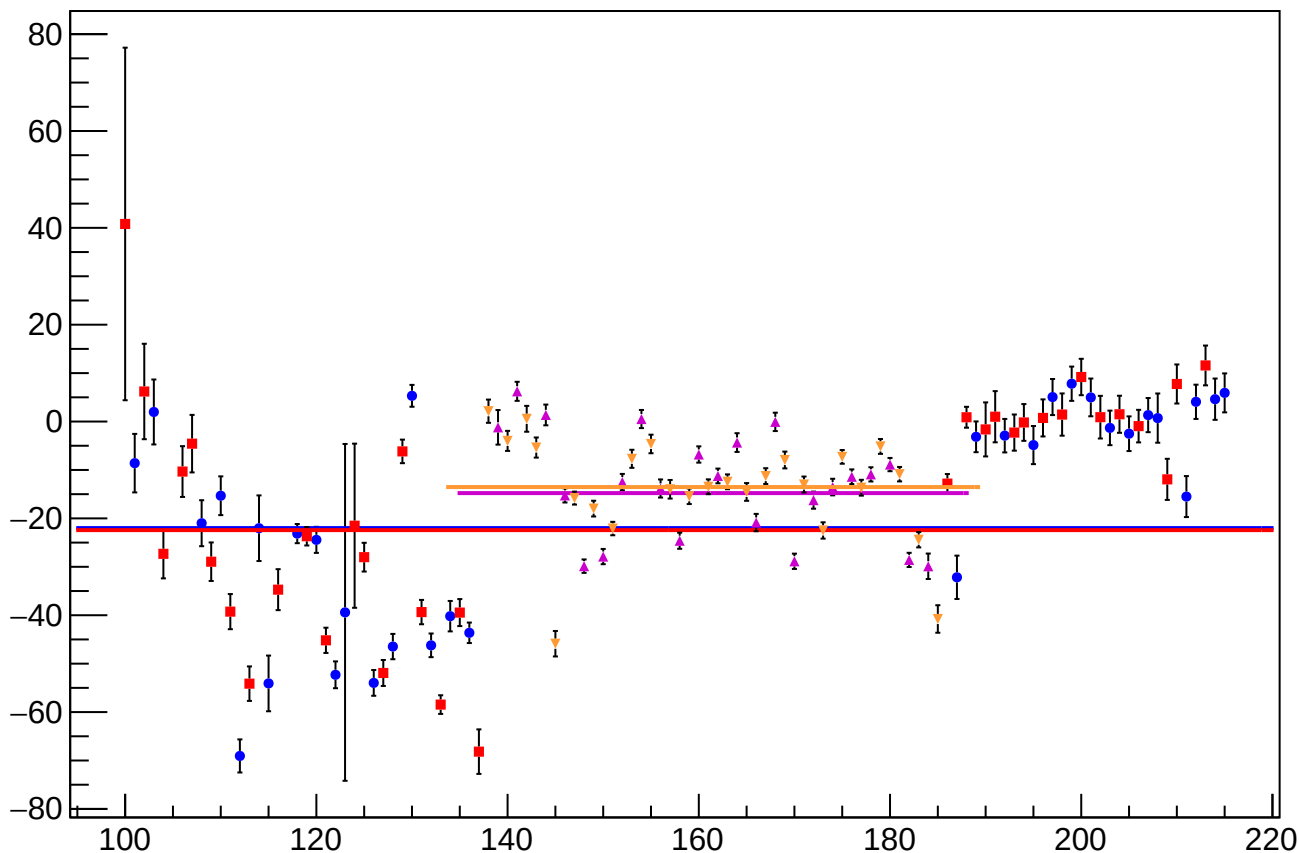
Right: 35.036 $\pm$ 0.329 χ^2 /NDF: 12621.0/65

In: 25.151 $\pm$ 0.310 χ^2 /NDF:7961.7/54

Out: 24.841 $\pm$ 0.288 χ^2 /NDF:11020.5/58

All: 24.984 $\pm$ 0.211 χ^2 /NDF: 18982.8/113

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.007 ± 0.594 $\chi^2/\text{NDF}: 1509.8/31$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -22.421 ± 0.568 $\chi^2/\text{NDF}: 1529.4/33$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

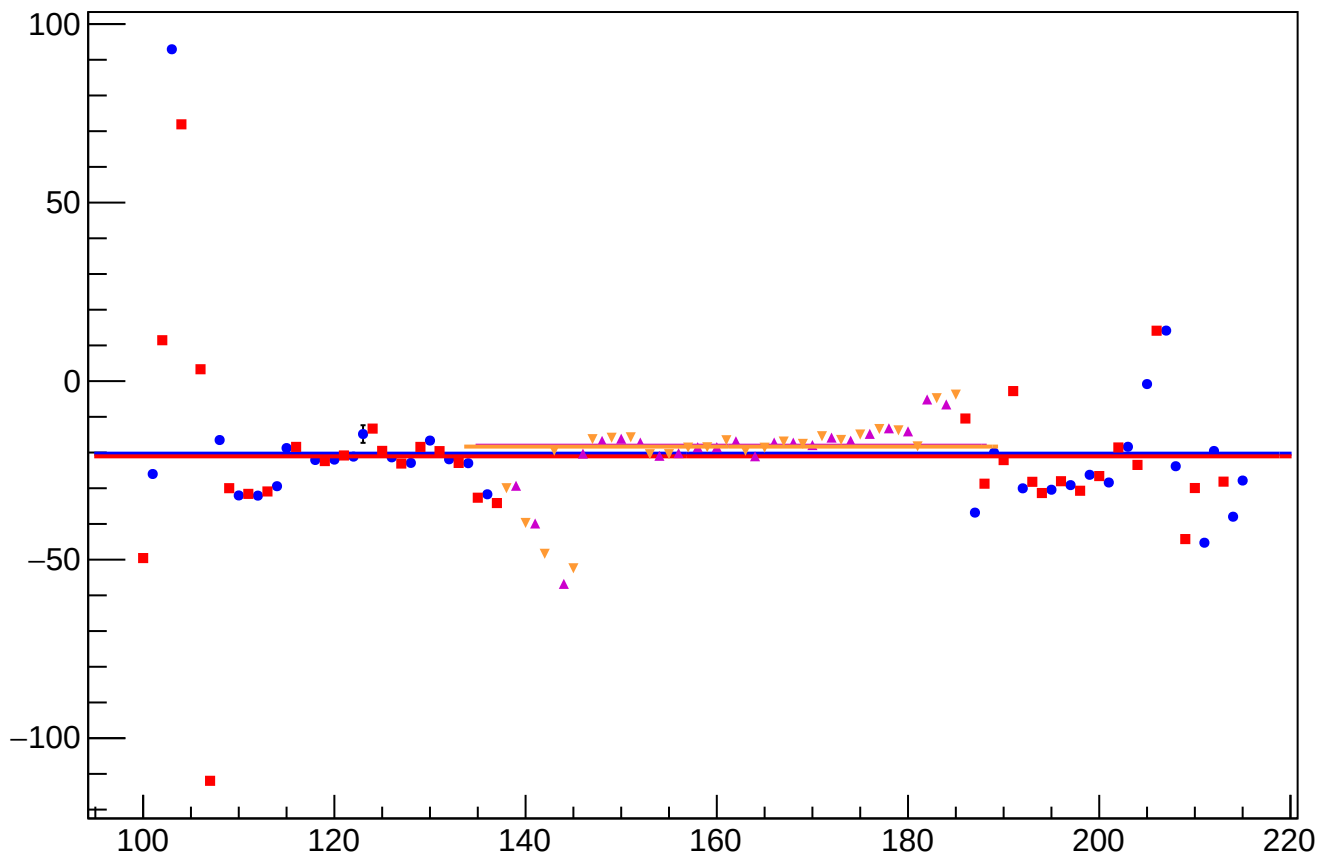
Right: -22.223 ± 0.411 $\chi^2/\text{NDF}: 3039.4/65$

In: -16.676 ± 0.304 $\chi^2/\text{NDF}: 2457.2/54$

Out: -15.915 ± 0.294 $\chi^2/\text{NDF}: 2281.2/58$

All: -16.283 ± 0.211 $\chi^2/\text{NDF}: 4741.6/113$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.316 ± 0.028 $\chi^2/\text{NDF}: 619395.8/31$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -21.069 ± 0.028 $\chi^2/\text{NDF}: 579317.7/33$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

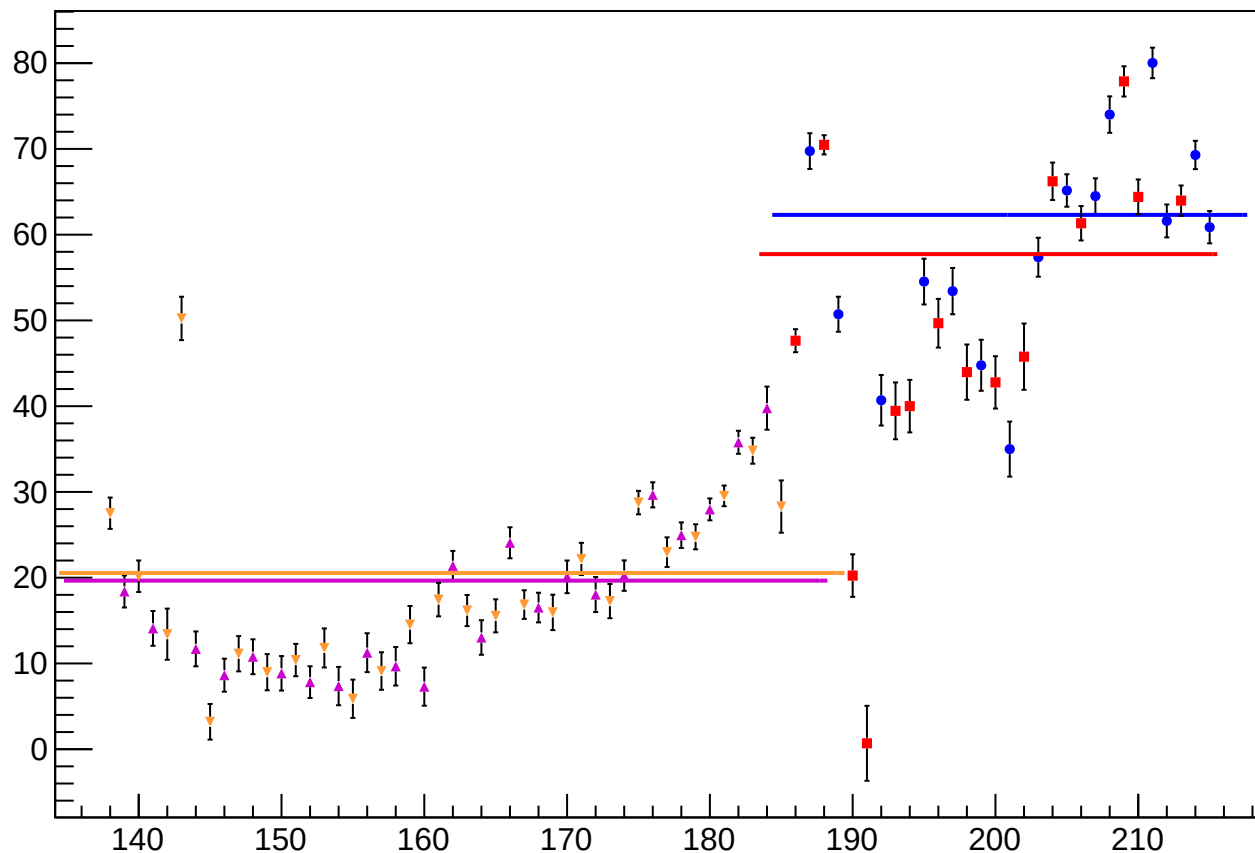
Right: -20.703 ± 0.020 $\chi^2/\text{NDF}: 1199075.7/65$

In: -18.626 ± 0.014 $\chi^2/\text{NDF}: 866029.7/54$

Out: -19.013 ± 0.014 $\chi^2/\text{NDF}: 870869.8/58$

All: -18.823 ± 0.010 $\chi^2/\text{NDF}: 1737288.9/113$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.307 $\pm$ 0.556 χ^2 /NDF: 381.5/14

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 57.731 $\pm$ 0.534 χ^2 /NDF: 881.3/14

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

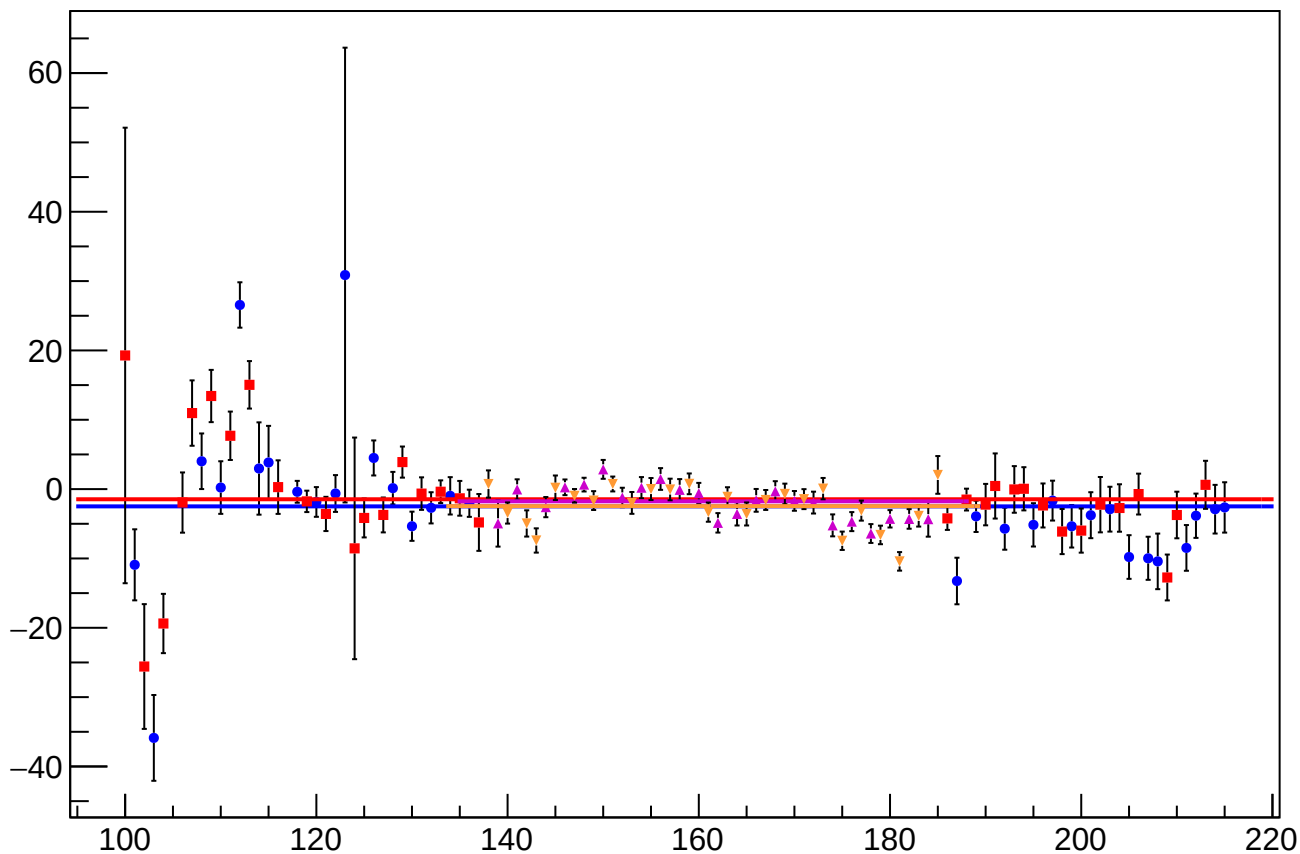
Right: 59.928 $\pm$ 0.385 χ^2 /NDF: 1298.0/29

In: 33.259 $\pm$ 0.314 χ^2 /NDF: 4962.7/37

Out: 32.738 $\pm$ 0.306 χ^2 /NDF: 4763.8/39

All: 32.992 $\pm$ 0.219 χ^2 /NDF: 9727.9/77

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.489 ± 0.513 χ^2/NDF : 162.6/31

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.464 ± 0.485 χ^2/NDF : 107.9/33

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

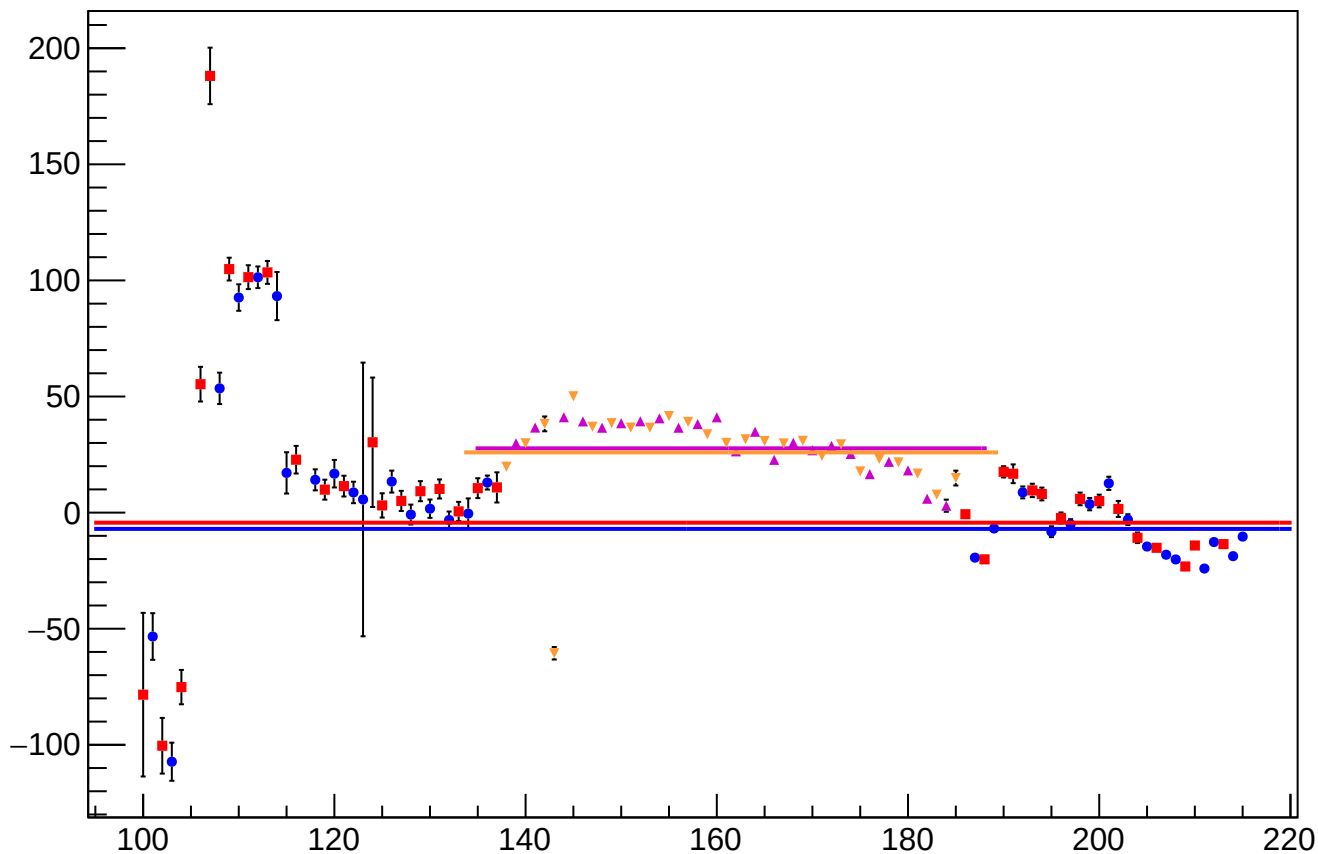
Right: -1.948 ± 0.353 χ^2/NDF : 272.7/65

In: -1.946 ± 0.260 χ^2/NDF : 231.6/54

Out: -2.191 ± 0.250 χ^2/NDF : 217.0/58

All: -2.073 ± 0.180 χ^2/NDF : 449.0/113

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.011 ± 0.492 $\chi^2/\text{NDF}: 1701.2/31$

Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$

Right Out: -4.334 ± 0.446 $\chi^2/\text{NDF}: 2661.5/33$

Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$

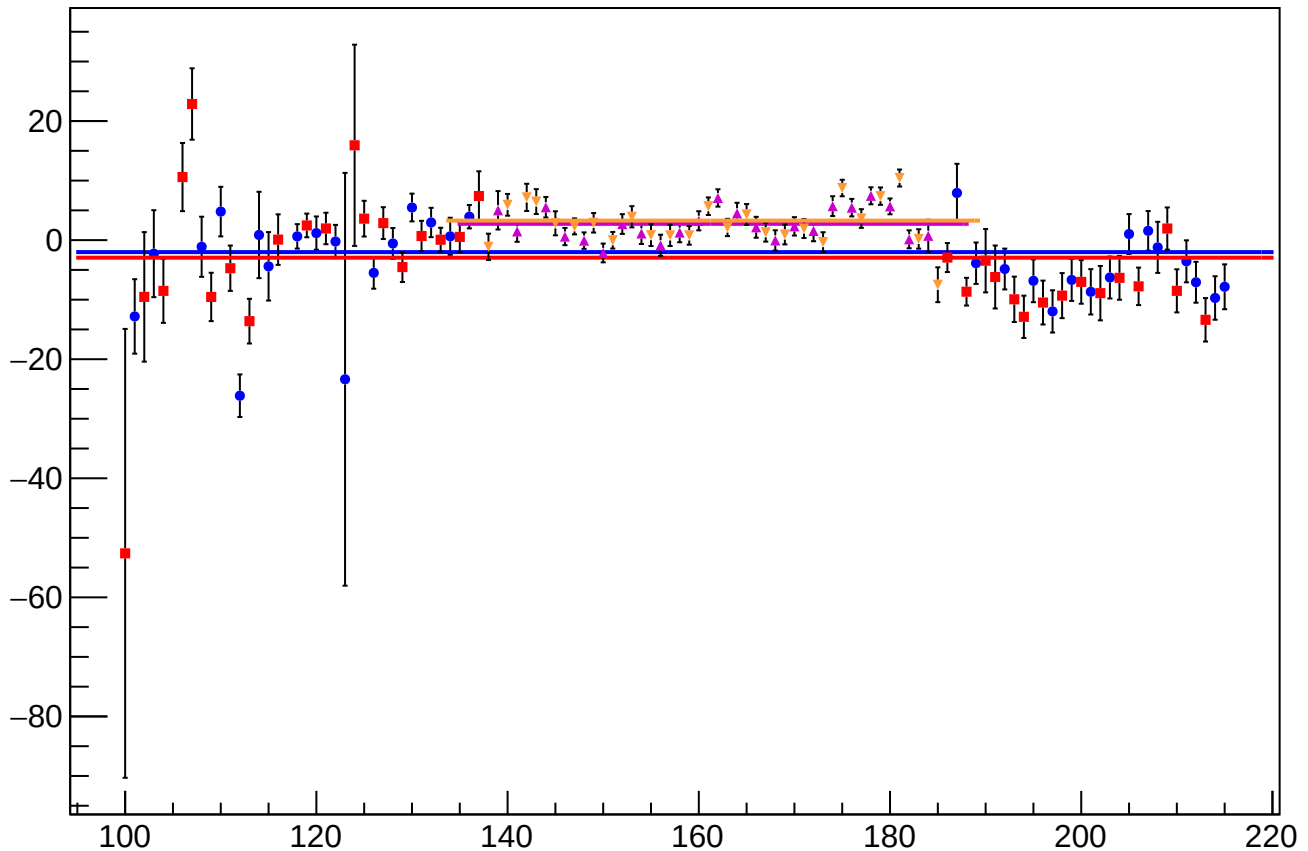
Right: -5.541 ± 0.330 $\chi^2/\text{NDF}: 4378.9/65$

In: 14.793 ± 0.300 $\chi^2/\text{NDF}: 5629.2/54$

Out: 13.493 ± 0.286 $\chi^2/\text{NDF}: 7090.7/58$

All: 14.111 ± 0.207 $\chi^2/\text{NDF}: 12729.7/113$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.013 ± 0.587 χ^2/NDF : 113.9/31

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.947 ± 0.575 χ^2/NDF : 116.3/33

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

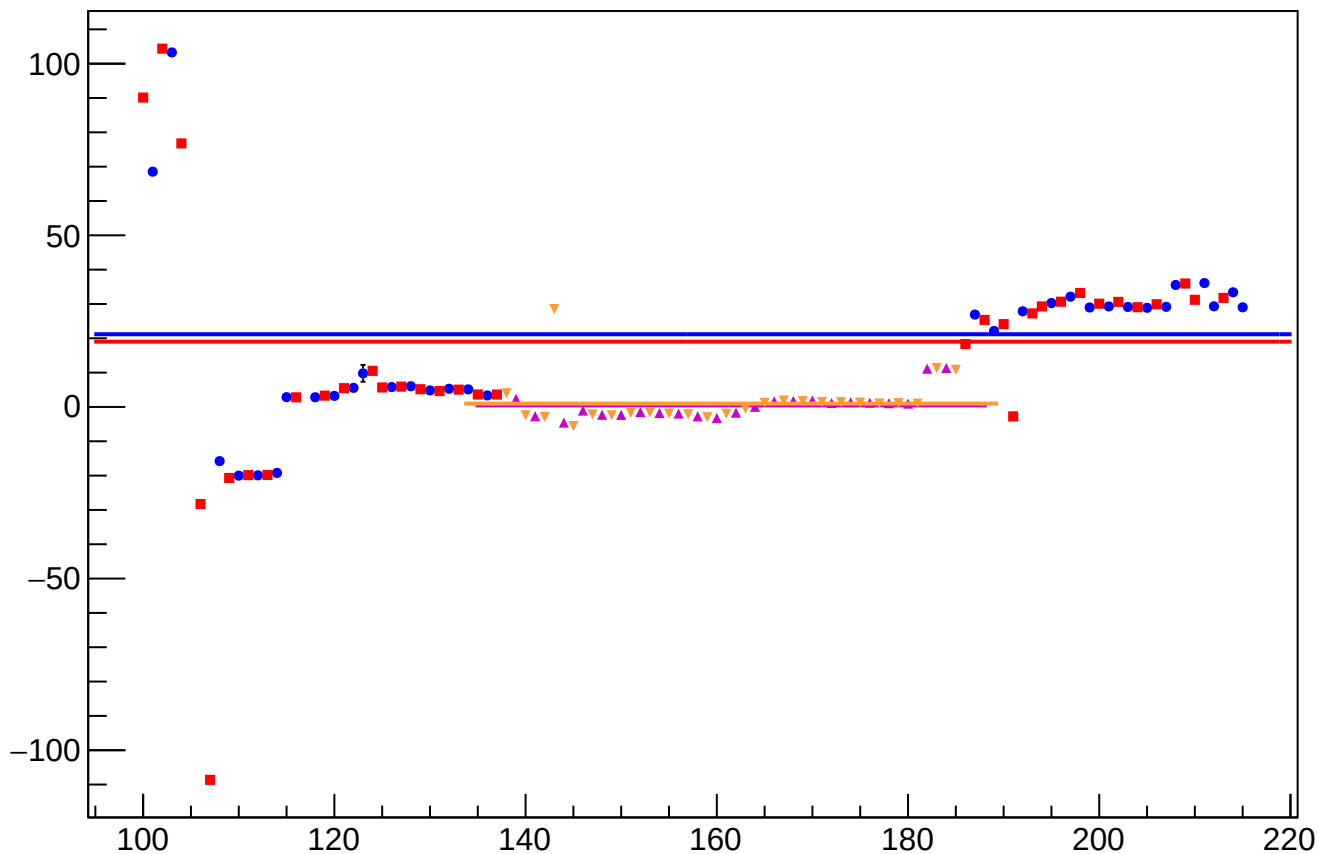
Right: -2.489 ± 0.411 χ^2/NDF : 231.4/65

In: 1.538 ± 0.295 χ^2/NDF : 227.3/54

Out: 1.731 ± 0.287 χ^2/NDF : 306.6/58

All: 1.637 ± 0.206 χ^2/NDF : 534.1/113

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.179+/-0.028 χ^2/NDF : 514070.7/31

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 19.020+/-0.027 χ^2/NDF : 745267.0/33

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

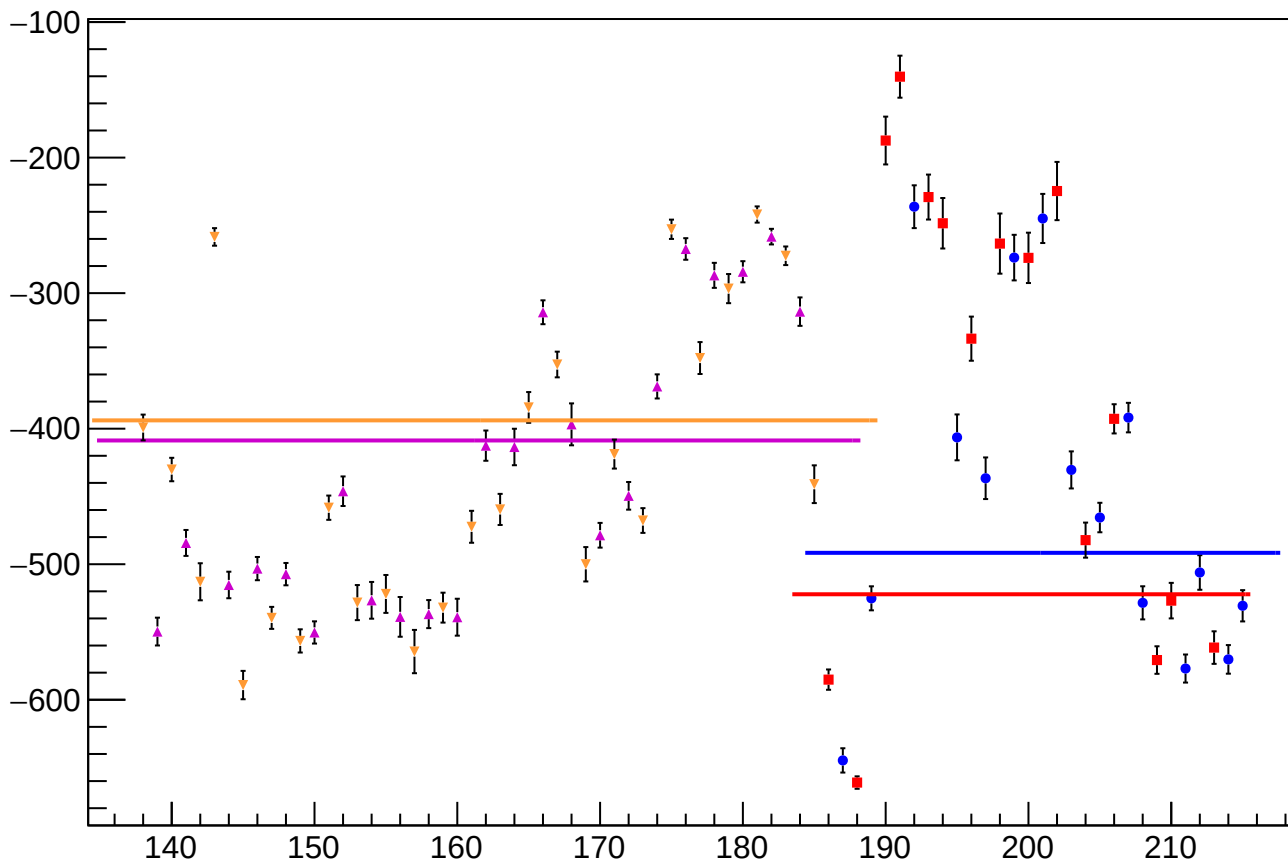
Right: 20.081+/-0.019 χ^2/NDF : 1262435.3/65

In: 5.369+/-0.013 χ^2/NDF : 992850.5/54

Out: 5.272+/-0.013 χ^2/NDF : 1198281.8/58

All: 5.320+/-0.009 χ^2/NDF : 2191158.7/113

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -491.593+/-3.095 χ^2/NDF : 1214.1/14

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -522.168+/-2.806 χ^2/NDF : 3308.2/14

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

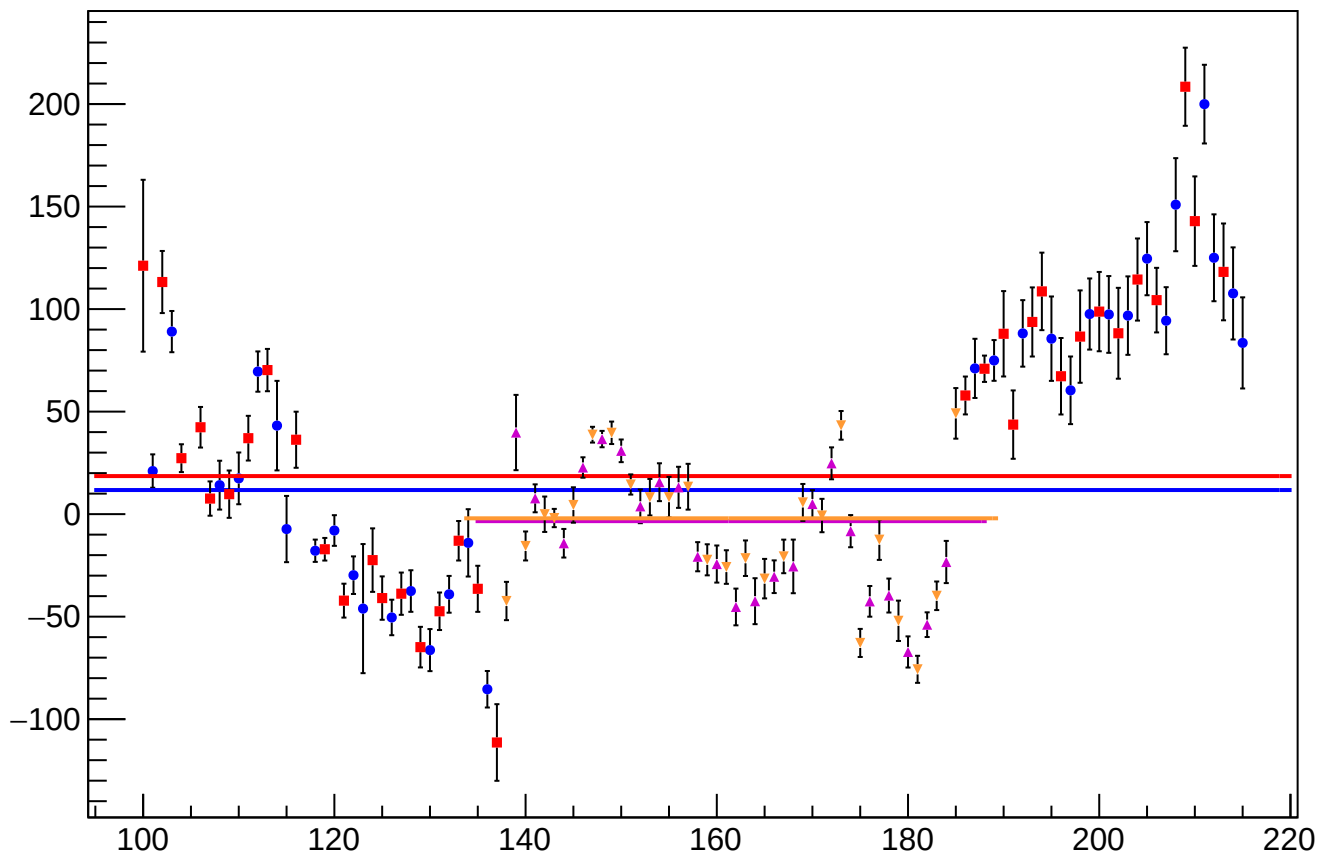
Right: -508.372+/-2.079 χ^2/NDF : 4575.9/29

In: -432.754+/-1.667 χ^2/NDF : 4786.2/37

Out: -434.109+/-1.572 χ^2/NDF : 8515.5/39

All: -433.471+/-1.144 χ^2/NDF : 13302.1/77

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.751+/-2.076 χ^2/NDF : 868.8/31

Left Out: -2.037+/-1.424 χ^2/NDF : 563.8/24

Right Out: 18.556+/-1.937 χ^2/NDF : 841.7/33

Left In: -3.420+/-1.520 χ^2/NDF : 451.0/22

Left: -2.683+/-1.039 χ^2/NDF : 1015.2/47

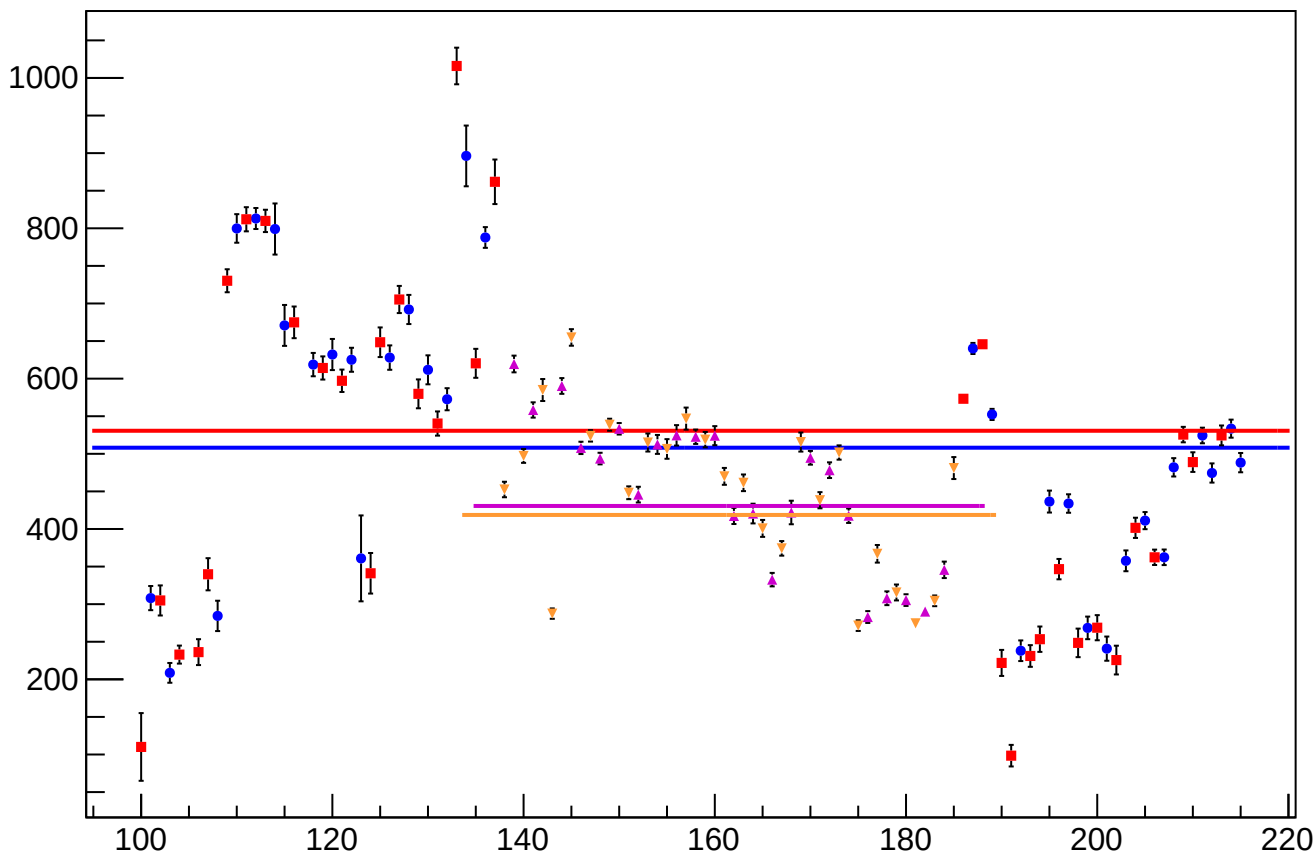
Right: 15.388+/-1.416 χ^2/NDF : 1716.3/65

In: 1.875+/-1.226 χ^2/NDF : 1354.6/54

Out: 5.188+/-1.147 χ^2/NDF : 1478.8/58

All: 3.642+/-0.838 χ^2/NDF : 2837.3/113

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.131 $\pm$ 2.414 χ^2 /NDF: 4204.4/31

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 530.669 $\pm$ 2.100 χ^2 /NDF: 7088.0/33

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

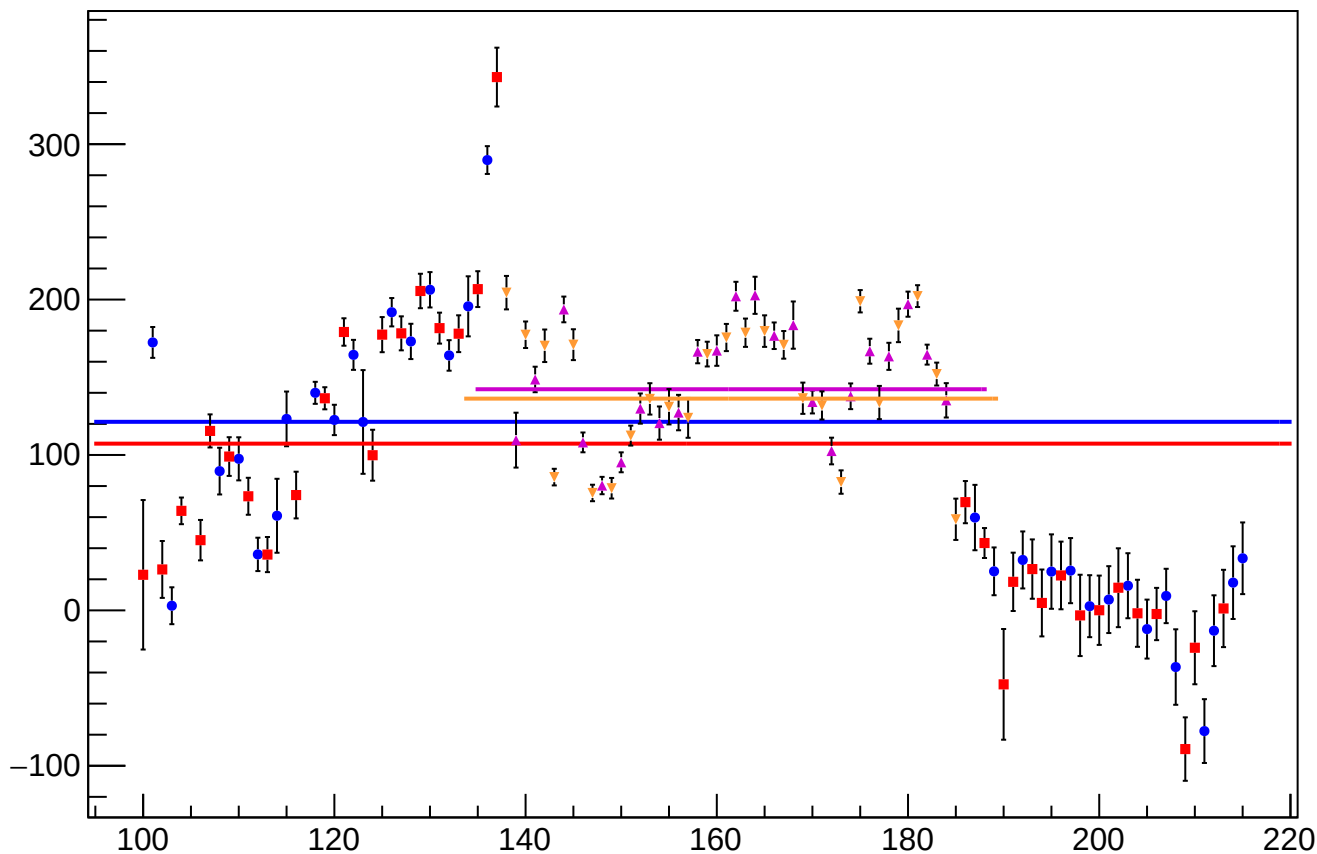
Right: 520.960 $\pm$ 1.584 χ^2 /NDF: 11342.1/65

In: 461.632 $\pm$ 1.527 χ^2 /NDF:7673.4/54

Out: 469.234 $\pm$ 1.411 χ^2 /NDF:11944.8/58

All: 465.732 $\pm$ 1.036 χ^2 /NDF: 19631.5/113

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 121.336 $\pm$ 2.412 χ^2 /NDF: 1247.4/31

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 107.289 $\pm$ 2.300 χ^2 /NDF: 1101.4/33

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF: 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

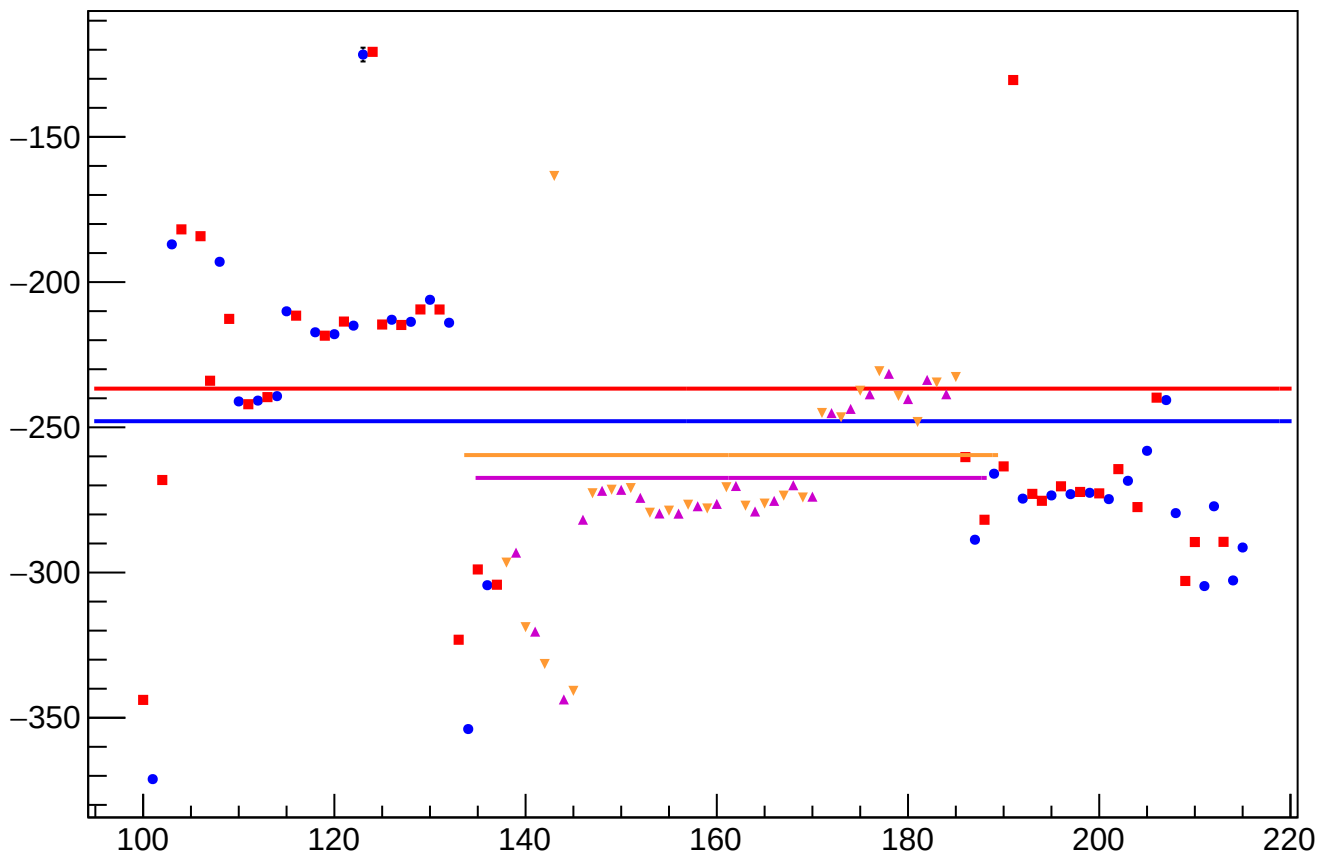
Right: 113.977 $\pm$ 1.665 χ^2 /NDF: 2366.6/65

In: 135.098 $\pm$ 1.414 χ^2 /NDF: 1756.8/54

Out: 126.406 $\pm$ 1.341 χ^2 /NDF: 1964.4/58

All: 130.523 $\pm$ 0.973 χ^2 /NDF: 3741.0/113

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Left: -263.361 $\pm$ 0.057 χ^2/NDF : 341051.4/47

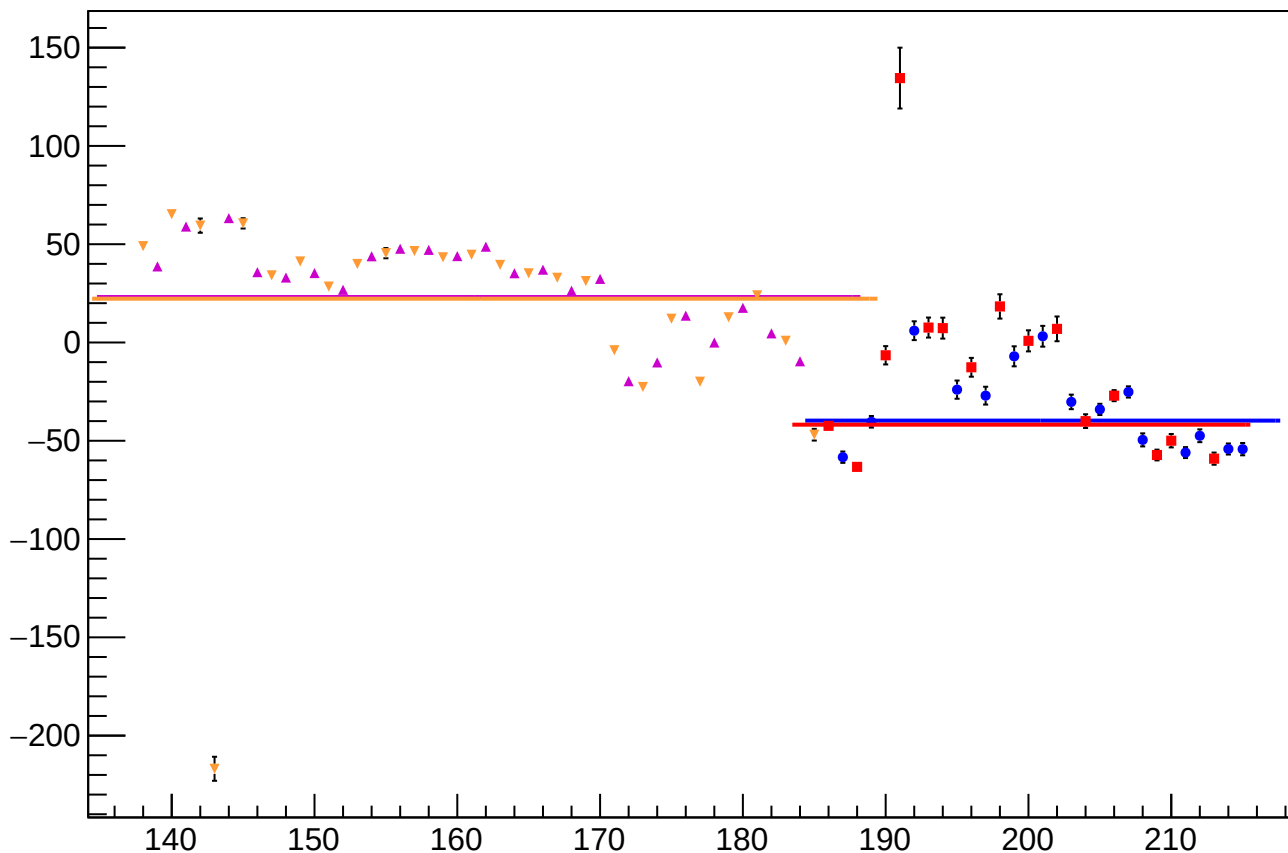
Right: -241.921 $\pm$ 0.082 χ^2/NDF : 360694.7/65

In: -261.228 $\pm$ 0.067 χ^2/NDF : 288741.9/54

Out: -251.976 $\pm$ 0.065 χ^2/NDF : 449409.3/58

All: -256.405 $\pm$ 0.047 χ^2/NDF : 747946.0/113

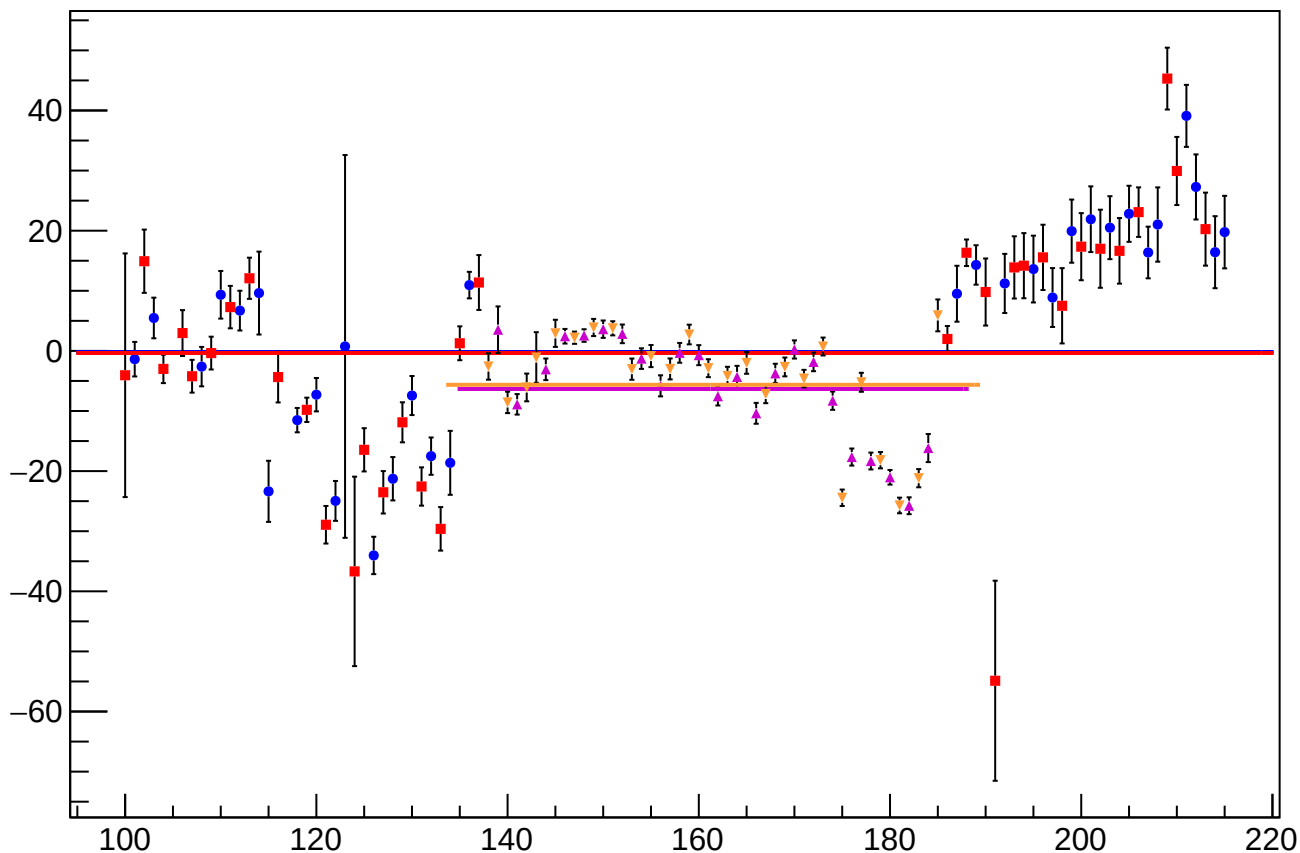
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.745 ± 0.875 $\chi^2/\text{NDF}: 391.8/14$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -41.815 ± 0.810 $\chi^2/\text{NDF}: 906.7/14$
 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: -40.859 ± 0.594 $\chi^2/\text{NDF}: 1301.5/29$
 In: 12.198 ± 0.365 $\chi^2/\text{NDF}: 7404.2/37$
 Out: 9.780 ± 0.358 $\chi^2/\text{NDF}: 11116.0/39$
 All: 10.965 ± 0.255 $\chi^2/\text{NDF}: 18542.5/77$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.181 ± 0.672 χ^2/NDF : 594.9/31

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -0.346 ± 0.626 χ^2/NDF : 613.1/33

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

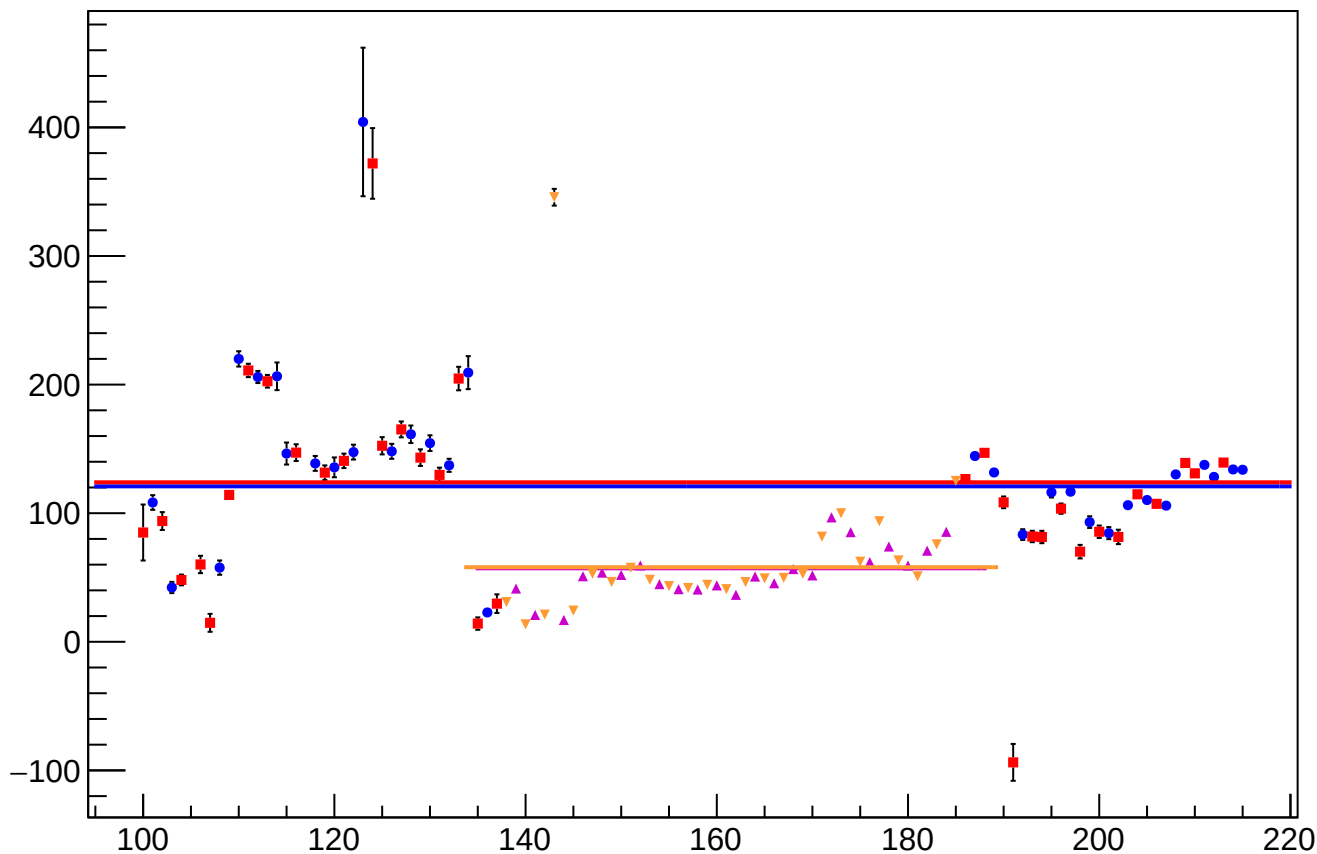
Right: -0.269 ± 0.458 χ^2/NDF : 1208.1/65

In: -5.192 ± 0.290 χ^2/NDF : 1446.2/54

Out: -4.568 ± 0.282 χ^2/NDF : 1564.0/58

All: -4.872 ± 0.202 χ^2/NDF : 3012.6/113

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 120.887 ± 0.719 χ^2/NDF : 2602.3/31

Left Out: 57.990 ± 0.398 χ^2/NDF : 4635.7/24

Right Out: 124.037 ± 0.630 χ^2/NDF : 3272.3/33

Left In: 57.139 ± 0.400 χ^2/NDF : 1803.4/22

Left: 57.566 ± 0.282 χ^2/NDF : 6441.4/47

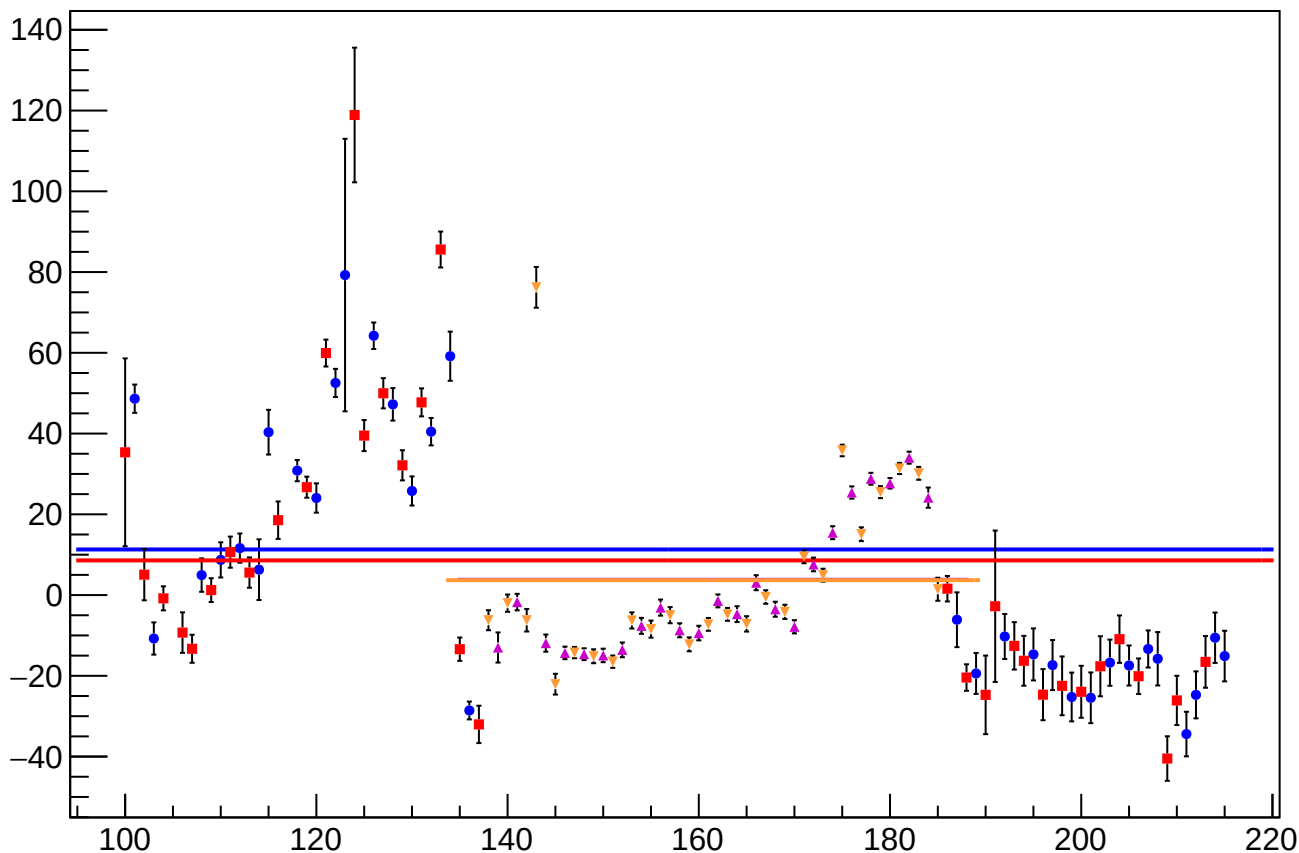
Right: 122.668 ± 0.474 χ^2/NDF : 5885.5/65

In: 72.176 ± 0.349 χ^2/NDF : 10410.2/54

Out: 76.821 ± 0.336 χ^2/NDF : 15761.8/58

All: 74.585 ± 0.242 χ^2/NDF : 26263.8/113

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.294+/-0.770 χ^2 /NDF: 1609.0/31

Left Out: 3.684+/-0.357 χ^2 /NDF:2541.7/24

Right Out: 8.589+/-0.740 χ^2 /NDF: 1581.9/33

Left In: 3.786+/-0.362 χ^2 /NDF:2198.8/22

Left: 3.734+/-0.254 χ^2 /NDF: 4740.5/47

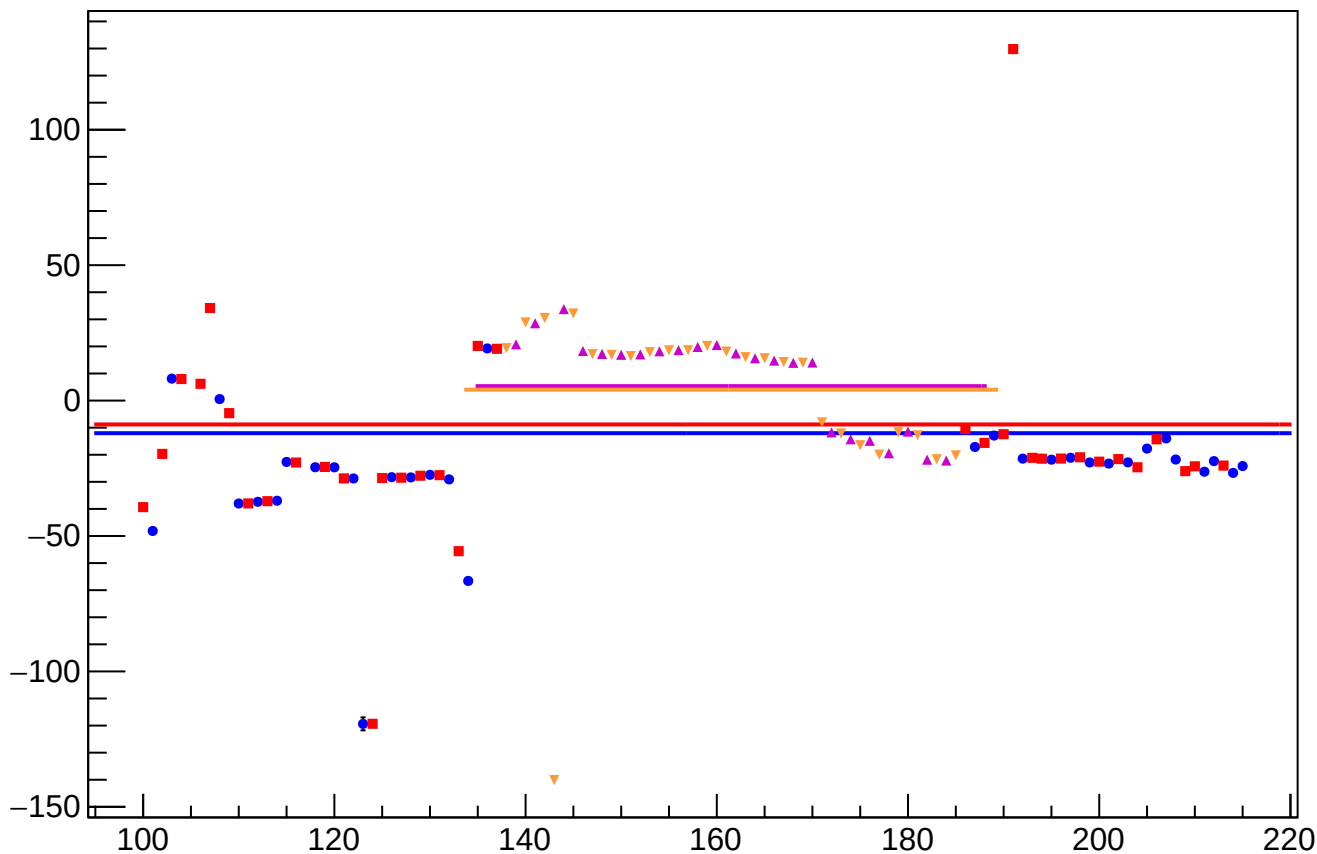
Right: 9.887+/-0.534 χ^2 /NDF: 3197.3/65

In: 5.142+/-0.327 χ^2 /NDF:3885.6/54

Out: 4.609+/-0.321 χ^2 /NDF:4159.2/58

All: 4.871+/-0.229 χ^2 /NDF: 8046.2/113

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.040 $\pm$ 0.036 χ^2 /NDF: 307001.7/31

Left Out: 4.026 $\pm$ 0.016 χ^2 /NDF:1383143.9/24

Right Out: -8.814 $\pm$ 0.035 χ^2 /NDF: 397435.5/33

Left In: 5.335 $\pm$ 0.016 χ^2 /NDF:1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2 /NDF: 2464153.9/47

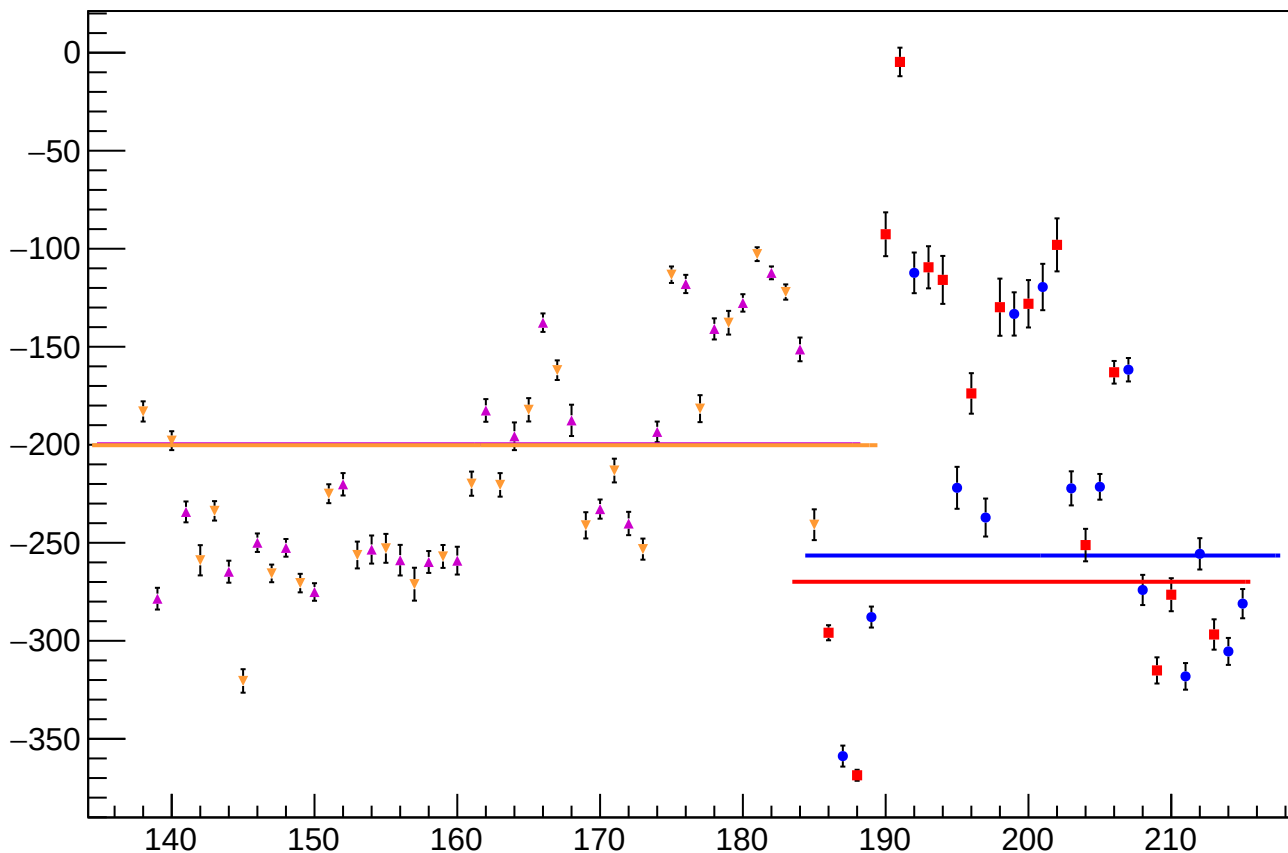
Right: -10.402 $\pm$ 0.025 χ^2 /NDF: 708517.0/65

In: 2.340 $\pm$ 0.015 χ^2 /NDF:1577735.6/54

Out: 1.769 $\pm$ 0.015 χ^2 /NDF:1888805.6/58

All: 2.053 $\pm$ 0.011 χ^2 /NDF: 3467277.1/113

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -256.496 $\pm$ 1.919 χ^2 /NDF: 1310.2/14

Left Out: -200.228 $\pm$ 1.078 χ^2 /NDF:3225.0/24

Right Out: -269.881 $\pm$ 1.666 χ^2 /NDF: 4121.4/14

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

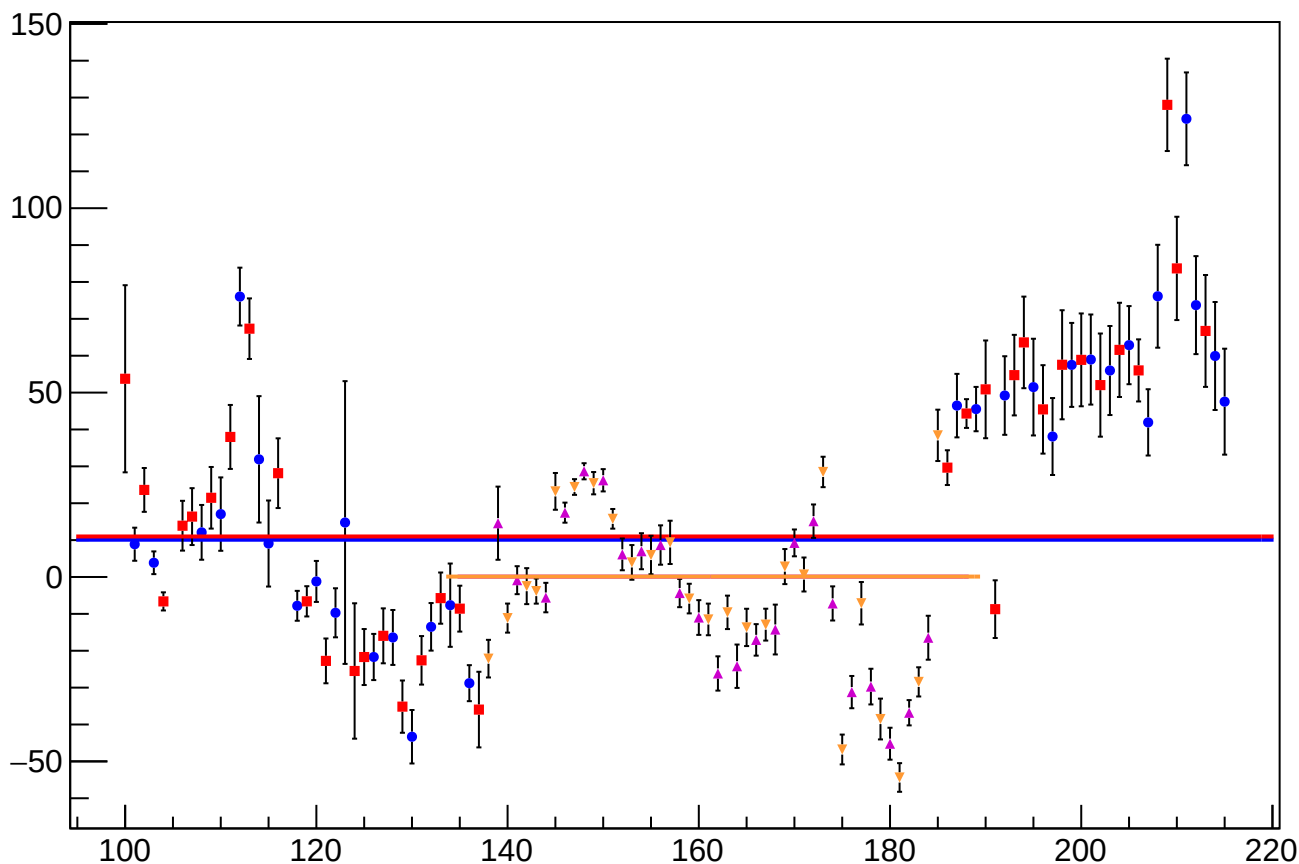
Right: -264.126 $\pm$ 1.258 χ^2 /NDF: 5459.3/29

In: -213.728 $\pm$ 0.953 χ^2 /NDF:4937.5/37

Out: -220.773 $\pm$ 0.905 χ^2 /NDF:8578.2/39

All: -217.431 $\pm$ 0.656 χ^2 /NDF: 13544.4/77

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.105 ± 1.294 $\chi^2/\text{NDF}: 596.0/31$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 10.985 ± 1.180 $\chi^2/\text{NDF}: 662.4/33$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

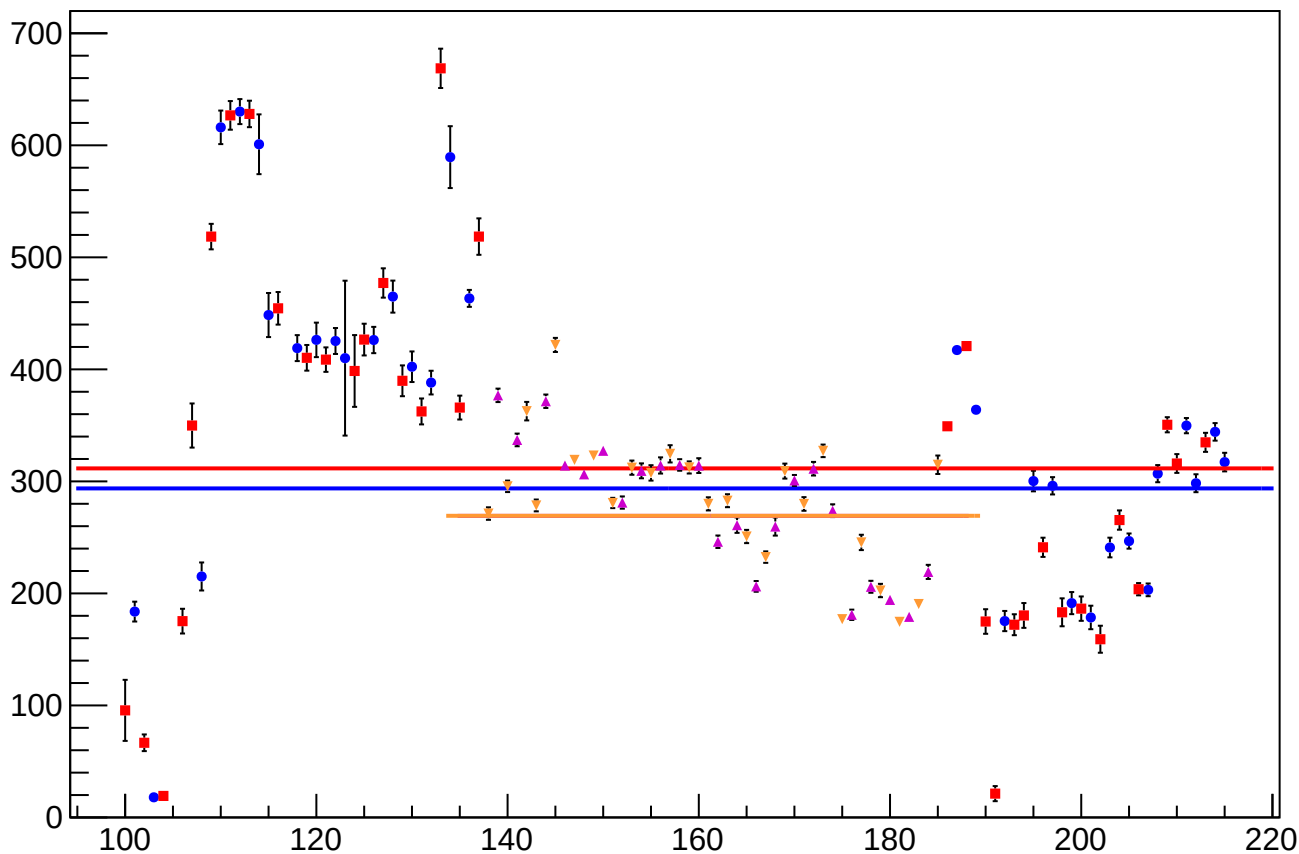
Right: 10.585 ± 0.872 $\chi^2/\text{NDF}: 1258.6/65$

In: 3.054 ± 0.703 $\chi^2/\text{NDF}: 1353.6/54$

Out: 3.577 ± 0.666 $\chi^2/\text{NDF}: 1551.6/58$

All: 3.330 ± 0.484 $\chi^2/\text{NDF}: 2905.4/113$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 293.722 $\pm$ 1.452 χ^2 /NDF: 9645.1/31

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 311.593 $\pm$ 1.241 χ^2 /NDF: 14403.6/33

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

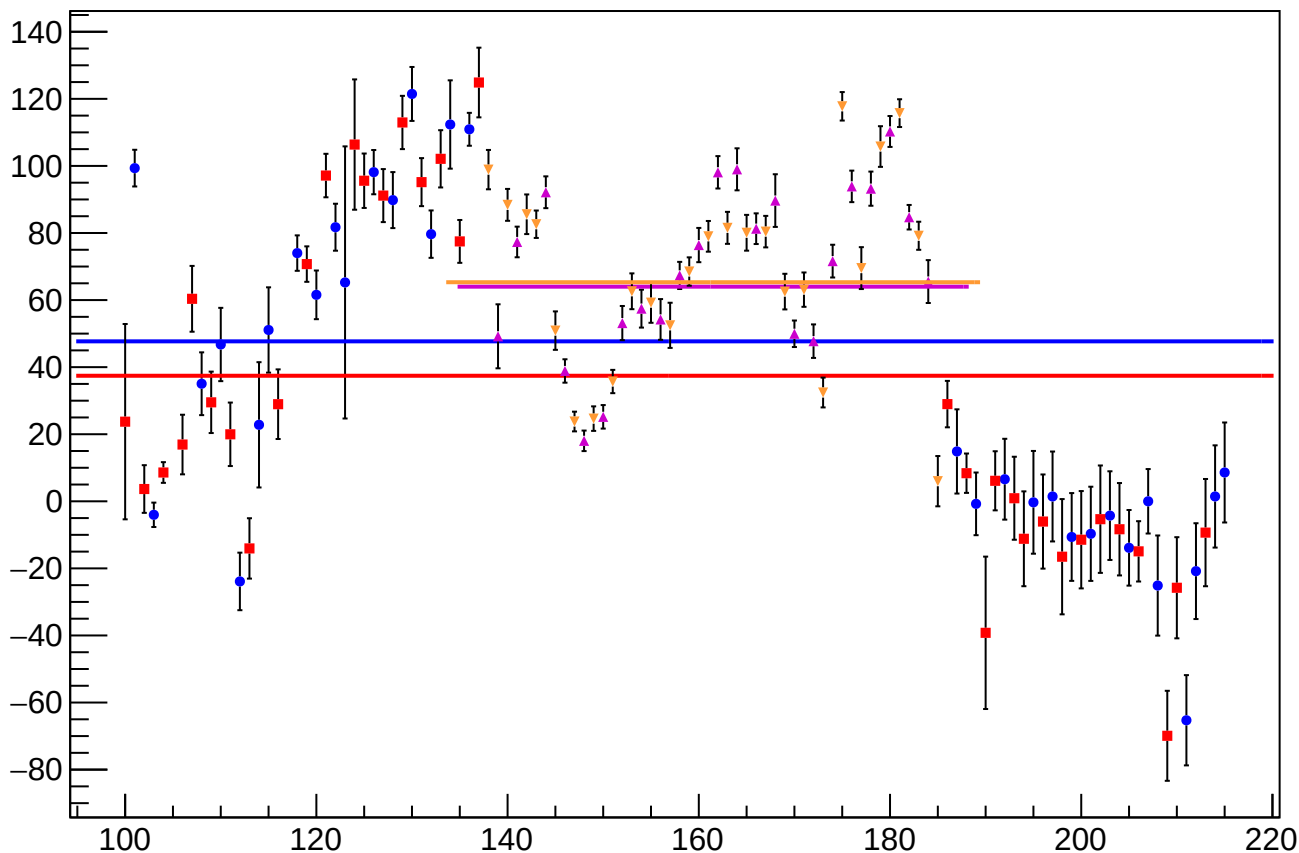
Right: 304.048 $\pm$ 0.943 χ^2 /NDF: 24136.2/65

In: 278.039 $\pm$ 0.872 χ^2 /NDF:12997.8/54

Out: 287.467 $\pm$ 0.814 χ^2 /NDF:18213.1/58

All: 283.079 $\pm$ 0.595 χ^2 /NDF: 31273.4/113

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.694 ± 1.506 $\chi^2/\text{NDF}: 1102.6/31$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 37.435 ± 1.422 $\chi^2/\text{NDF}: 959.7/33$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

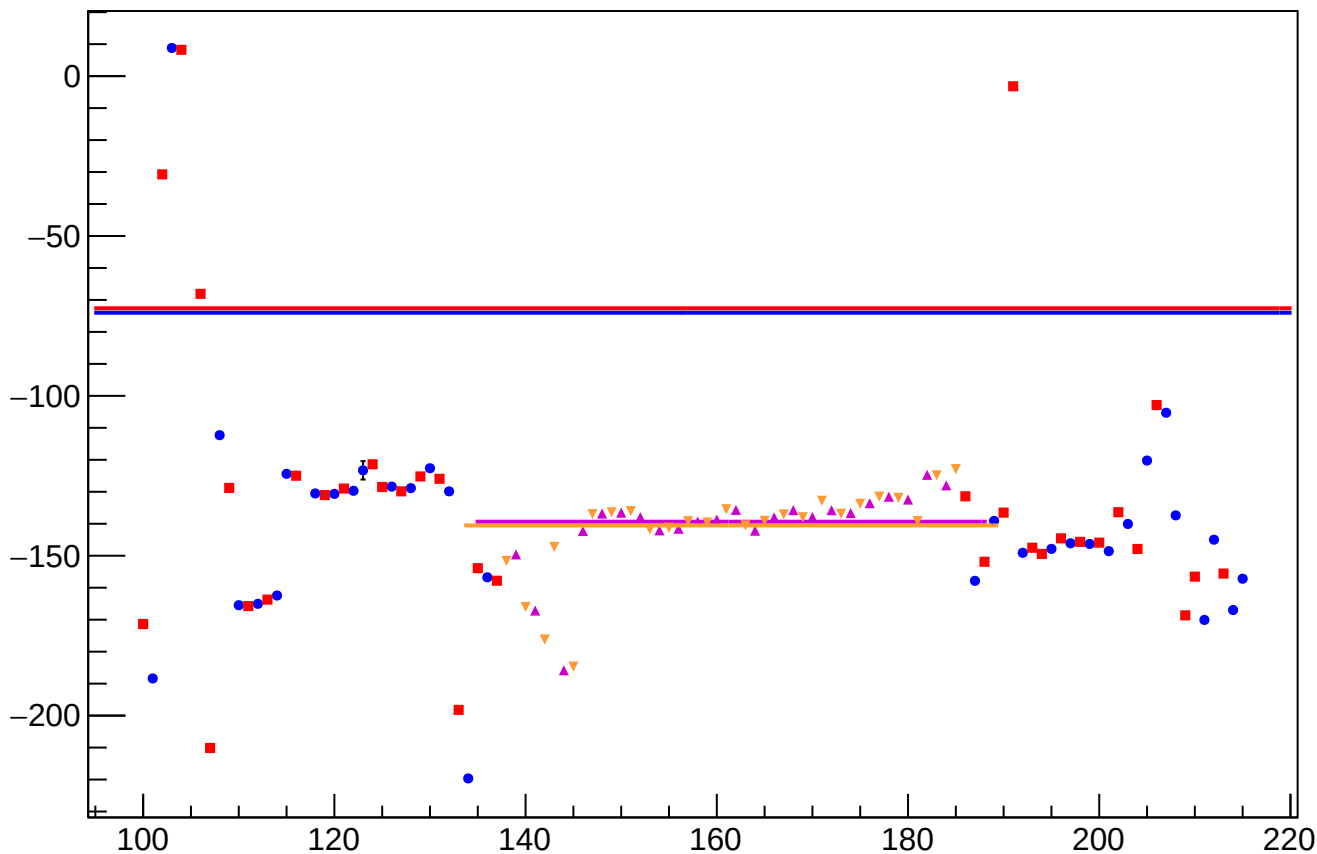
Right: 42.269 ± 1.034 $\chi^2/\text{NDF}: 2086.9/65$

In: 59.268 ± 0.811 $\chi^2/\text{NDF}: 1985.3/54$

Out: 56.906 ± 0.781 $\chi^2/\text{NDF}: 2235.5/58$

All: 58.042 ± 0.563 $\chi^2/\text{NDF}: 4225.2/113$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -73.999 ± 0.062 $\chi^2/\text{NDF}: 1609377.3/31$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -72.609 ± 0.060 $\chi^2/\text{NDF}: 1435805.3/33$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

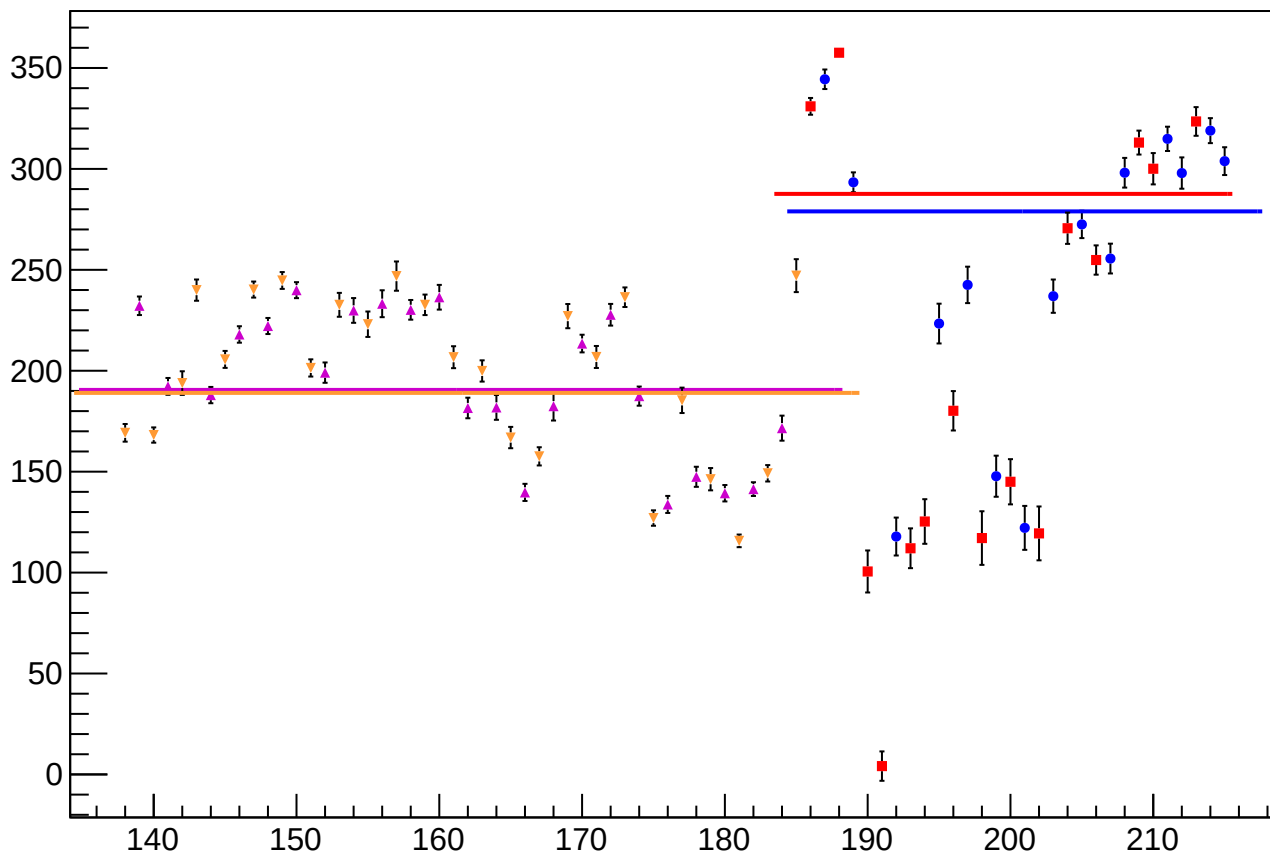
Right: -73.289 ± 0.043 $\chi^2/\text{NDF}: 3045443.5/65$

In: -116.576 ± 0.036 $\chi^2/\text{NDF}: 2406886.3/54$

Out: -116.478 ± 0.036 $\chi^2/\text{NDF}: 2335768.5/58$

All: -116.527 ± 0.026 $\chi^2/\text{NDF}: 4742658.6/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 278.951 $\pm$ 1.824 χ^2 /NDF: 1047.4/14

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 287.623 $\pm$ 1.593 χ^2 /NDF: 3940.1/14

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

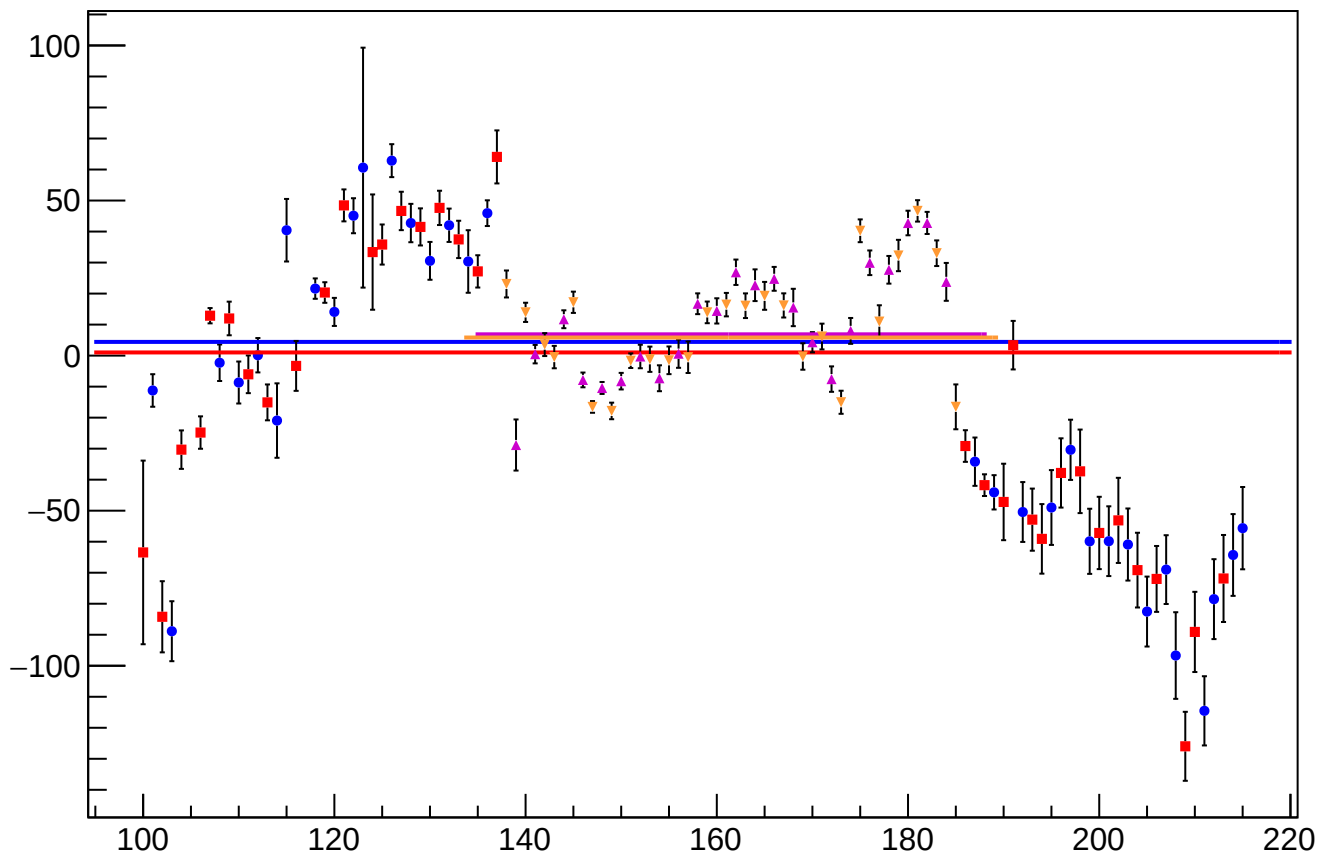
Right: 283.870 $\pm$ 1.200 χ^2 /NDF: 5000.3/29

In: 210.170 $\pm$ 0.860 χ^2 /NDF:4289.3/37

Out: 215.133 $\pm$ 0.820 χ^2 /NDF:8737.6/39

All: 212.770 $\pm$ 0.593 χ^2 /NDF: 13044.4/77

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.421 ± 1.231 χ^2/NDF : 1170.8/31

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 1.021 ± 1.063 χ^2/NDF : 1189.9/33

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

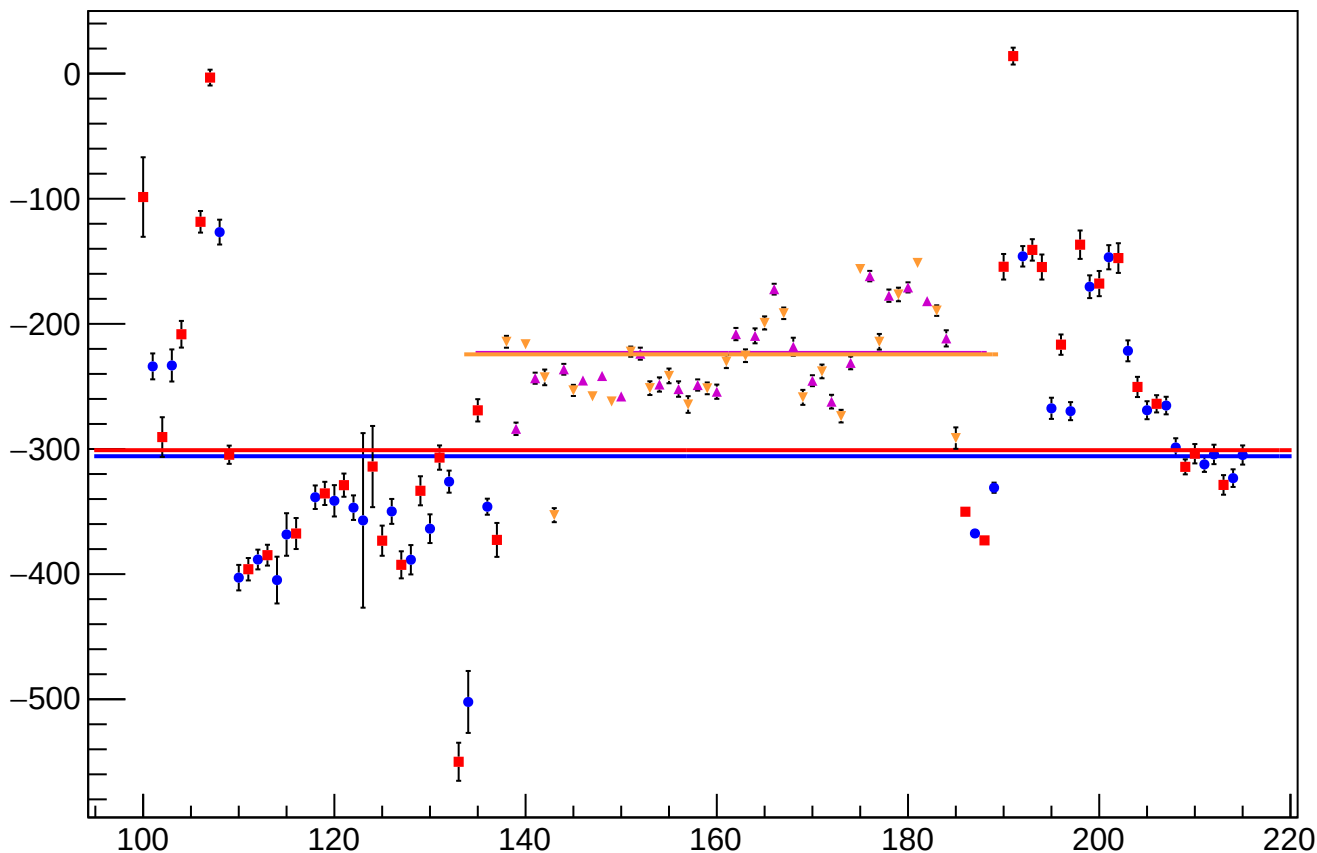
Right: 2.474 ± 0.805 χ^2/NDF : 2365.0/65

In: 6.219 ± 0.632 χ^2/NDF : 1696.4/54

Out: 4.343 ± 0.592 χ^2/NDF : 1856.3/58

All: 5.220 ± 0.432 χ^2/NDF : 3557.4/113

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.782 ± 1.417 χ^2/NDF : 2257.0/31

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.947 ± 1.183 χ^2/NDF : 8677.6/33

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

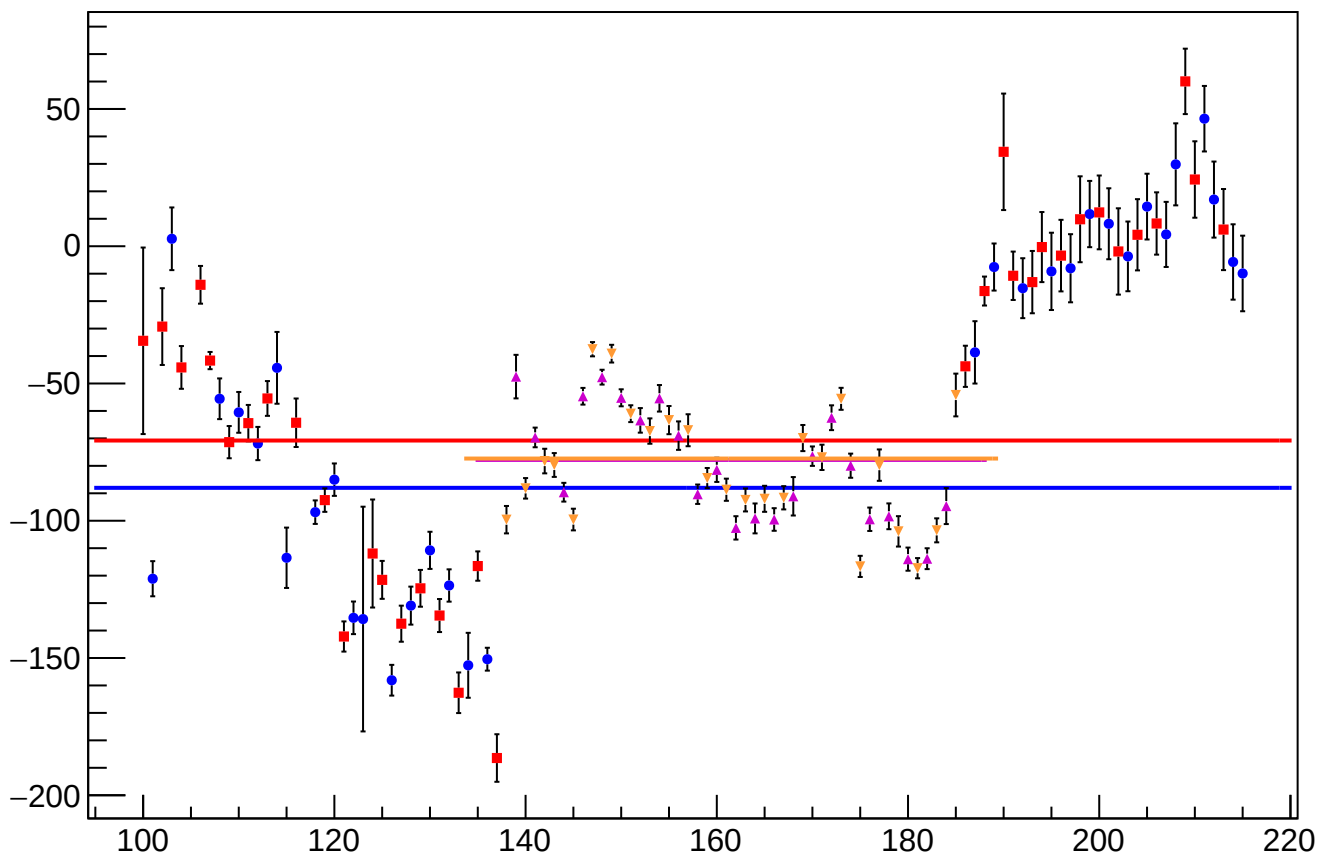
Right: -302.931 ± 0.908 χ^2/NDF : 10941.4/65

In: -249.525 ± 0.800 χ^2/NDF : 5838.0/54

Out: -254.631 ± 0.743 χ^2/NDF : 13316.9/58

All: -252.265 ± 0.545 χ^2/NDF : 19176.8/113

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.012 ± 1.426 χ^2/NDF : 1553.8/31

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -70.777 ± 1.272 χ^2/NDF : 1755.3/33

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

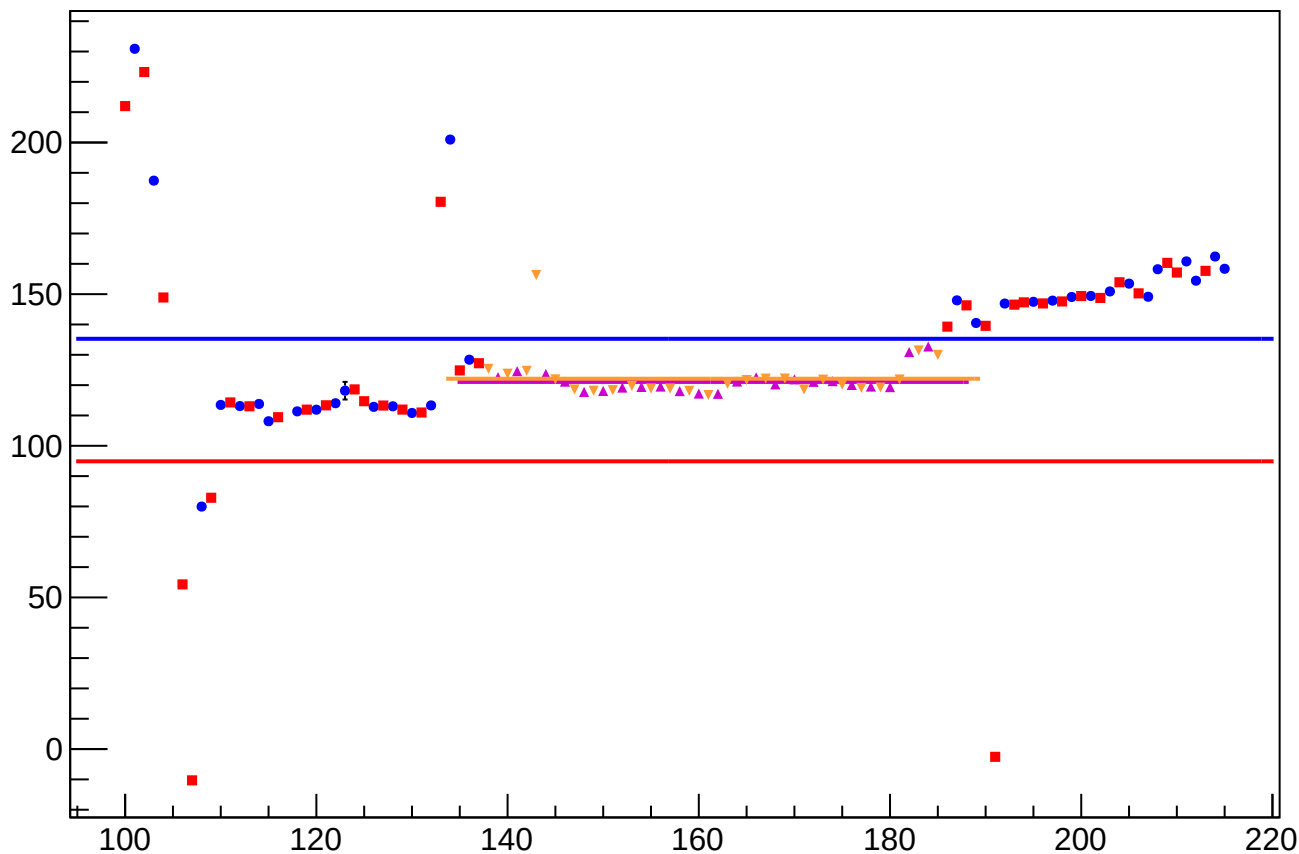
Right: -78.412 ± 0.949 χ^2/NDF : 3390.5/65

In: -80.500 ± 0.729 χ^2/NDF : 2214.2/54

Out: -75.393 ± 0.693 χ^2/NDF : 2620.3/58

All: -77.816 ± 0.502 χ^2/NDF : 4860.3/113

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.282 $\pm$ 0.072 χ^2 /NDF: 211762.4/31

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 94.884 $\pm$ 0.061 χ^2 /NDF: 1161213.5/33

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

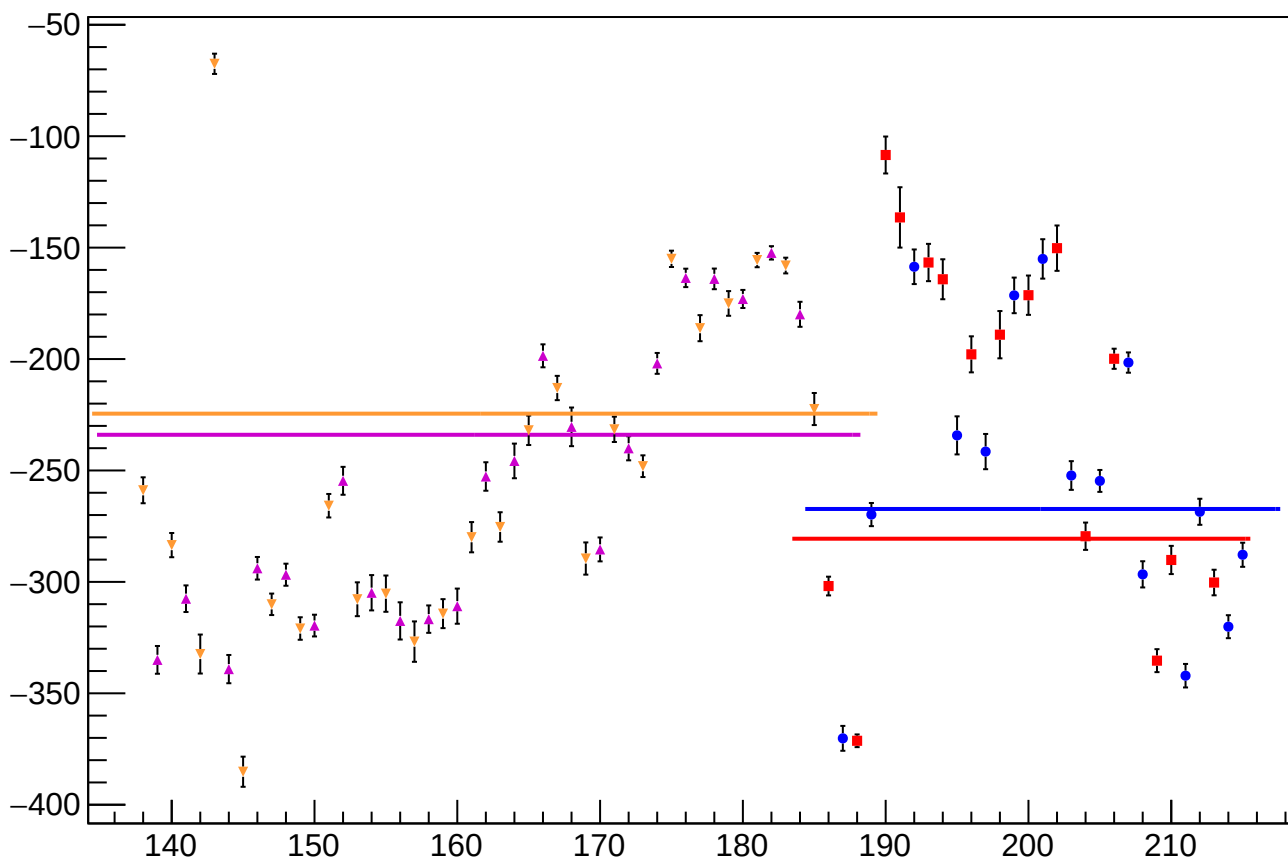
Right: 111.874 $\pm$ 0.047 χ^2 /NDF: 1554627.7/65

In: 124.366 $\pm$ 0.035 χ^2 /NDF:249528.3/54

Out: 114.185 $\pm$ 0.033 χ^2 /NDF:1330807.5/58

All: 119.032 $\pm$ 0.024 χ^2 /NDF: 1625165.4/113

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -267.278 ± 1.537 $\chi^2/\text{NDF}: 1432.1/14$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -280.626 ± 1.505 $\chi^2/\text{NDF}: 2912.2/14$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

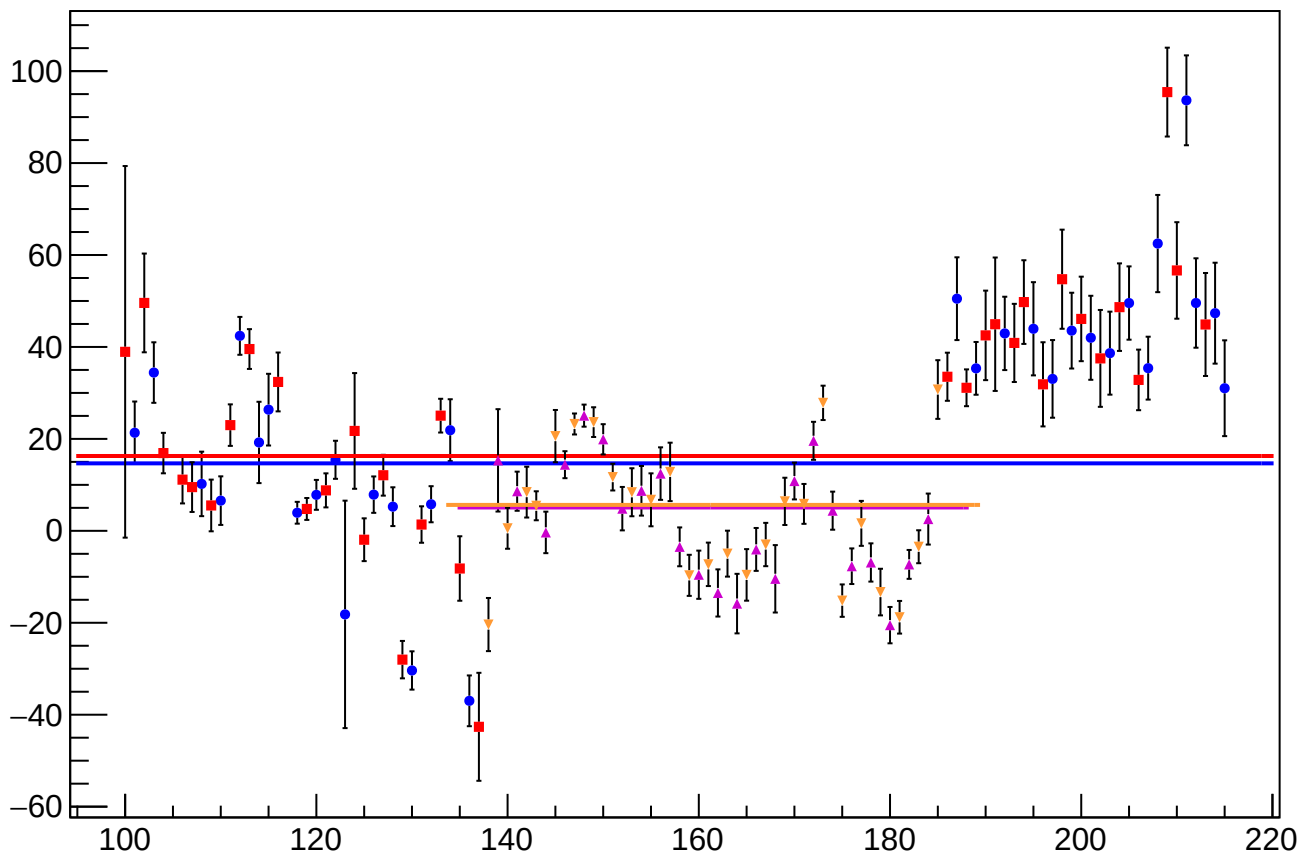
Right: -274.091 ± 1.075 $\chi^2/\text{NDF}: 4382.8/29$

In: -245.382 ± 0.899 $\chi^2/\text{NDF}: 5279.2/37$

Out: -243.558 ± 0.877 $\chi^2/\text{NDF}: 8701.4/39$

All: -244.447 ± 0.628 $\chi^2/\text{NDF}: 13982.6/77$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.678 $\pm$ 0.988 χ^2 /NDF: 527.0/31

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.279 $\pm$ 0.948 χ^2 /NDF: 467.2/33

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

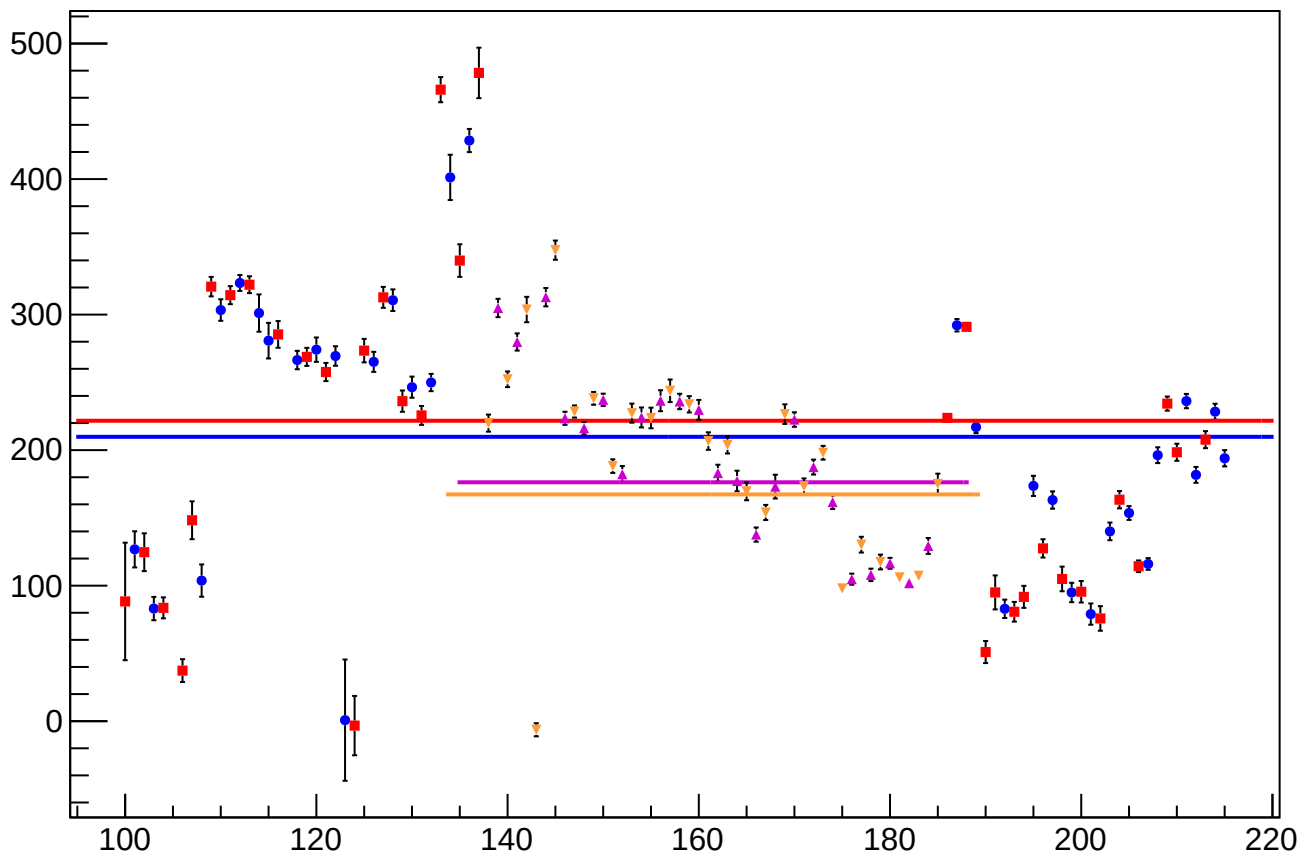
Right: 15.511 $\pm$ 0.684 χ^2 /NDF: 995.5/65

In: 9.264 $\pm$ 0.652 χ^2 /NDF:819.9/54

Out: 10.241 $\pm$ 0.624 χ^2 /NDF:852.3/58

All: 9.775 $\pm$ 0.451 χ^2 /NDF: 1673.4/113

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.822 $\pm$ 1.201 χ^2 /NDF: 4260.8/31

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 221.688 $\pm$ 1.107 χ^2 /NDF: 6595.7/33

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

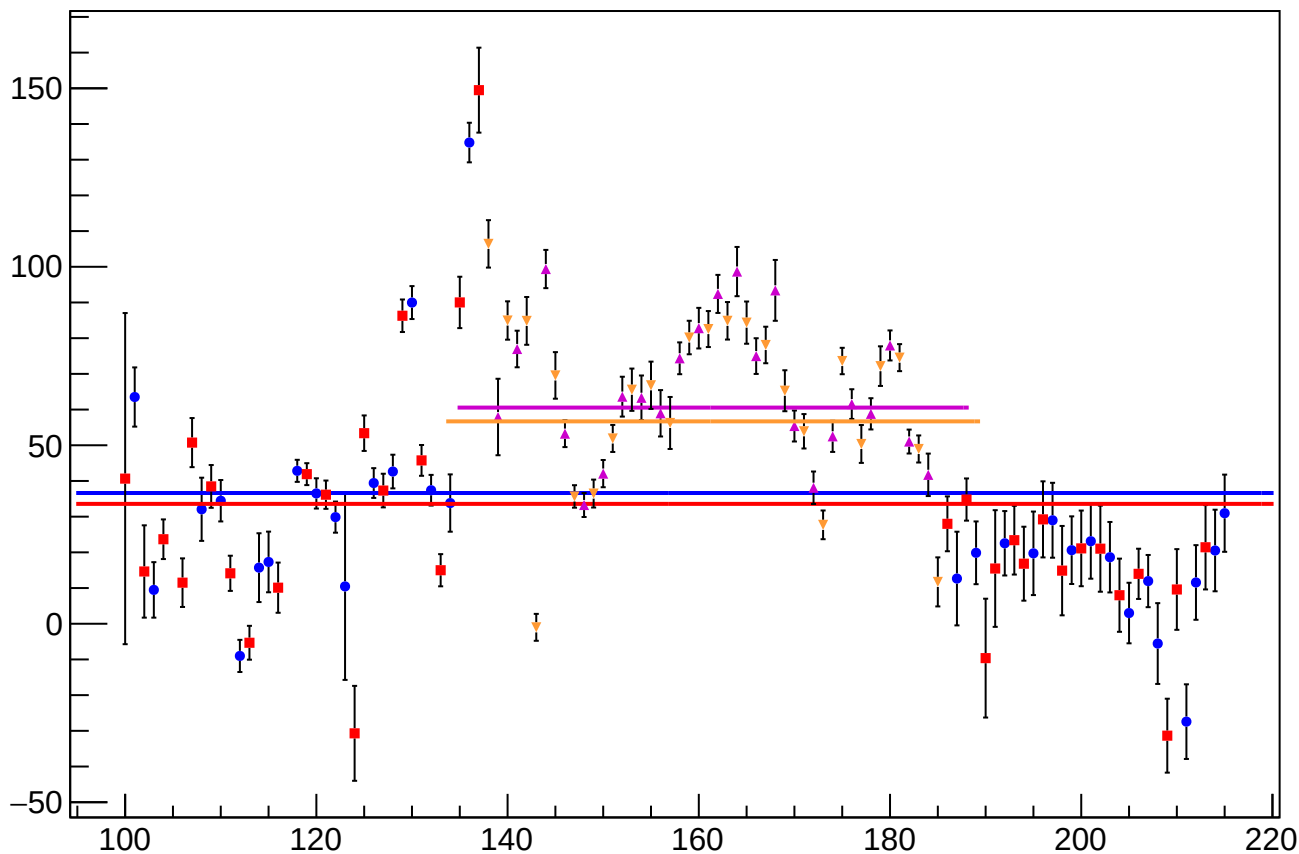
Right: 216.237 $\pm$ 0.814 χ^2 /NDF: 10909.2/65

In: 191.661 $\pm$ 0.814 χ^2 /NDF:7852.6/54

Out: 193.896 $\pm$ 0.774 χ^2 /NDF:12282.7/58

All: 192.834 $\pm$ 0.561 χ^2 /NDF: 20139.3/113

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.629 $\pm$ 1.142 χ^2/NDF : 698.9/31

Left Out: 56.695 $\pm$ 0.952 χ^2/NDF :690.4/24

Right Out: 33.580 $\pm$ -1.110 χ^2/NDF : 555.5/33

Left In: 60.555 $\pm$ -0.990 χ^2/NDF :335.6/22

Left: 58.548 $\pm$ -0.686 χ^2/NDF : 1034.0/47

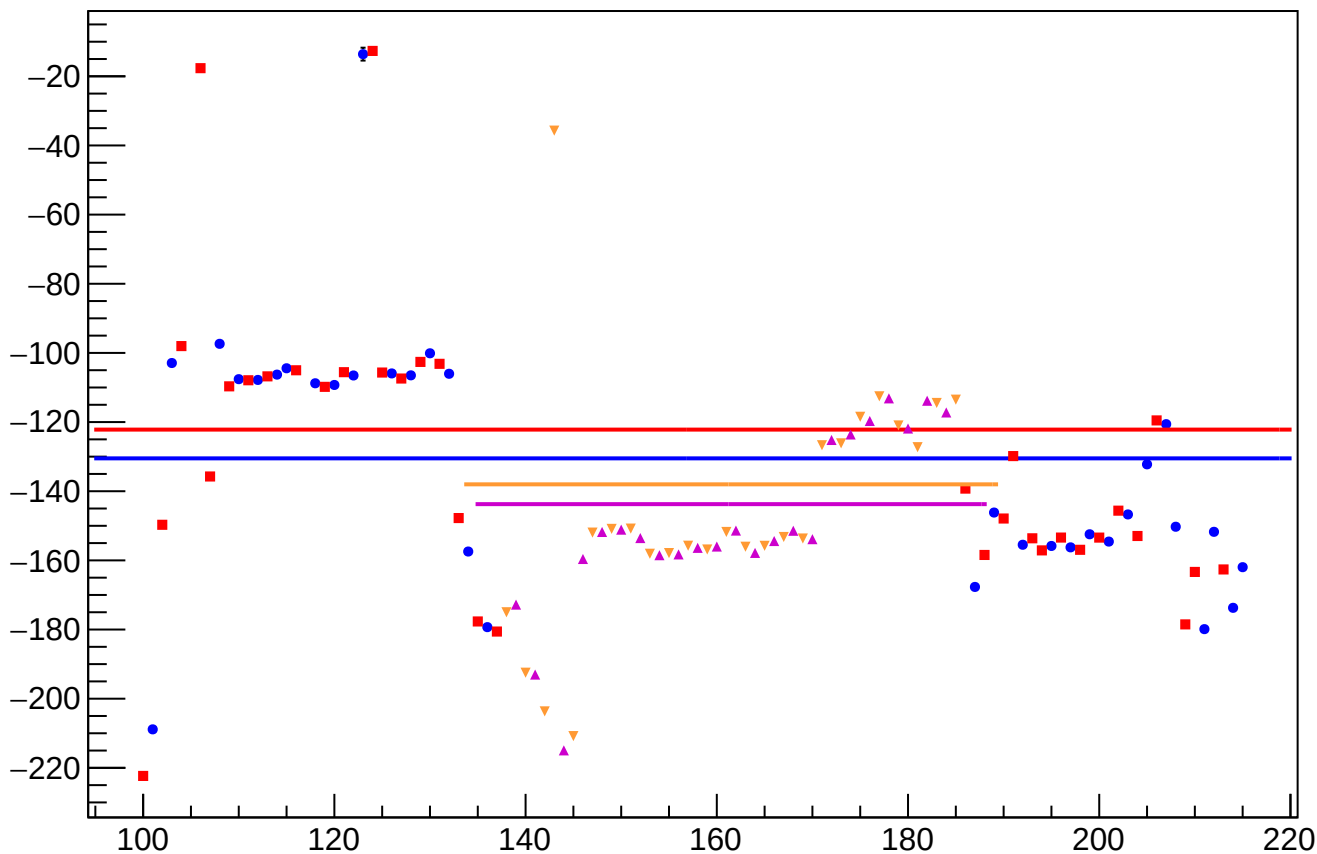
Right: 35.061 $\pm$ -0.796 χ^2/NDF : 1258.1/65

In: 50.290 $\pm$ -0.748 χ^2/NDF :1285.0/54

Out: 46.901 $\pm$ -0.723 χ^2/NDF :1495.8/58

All: 48.537 $\pm$ -0.520 χ^2/NDF : 2791.5/113

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.496+/-0.061 χ^2/NDF : 229377.0/31

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -122.177+/-0.058 χ^2/NDF : 480512.0/33

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

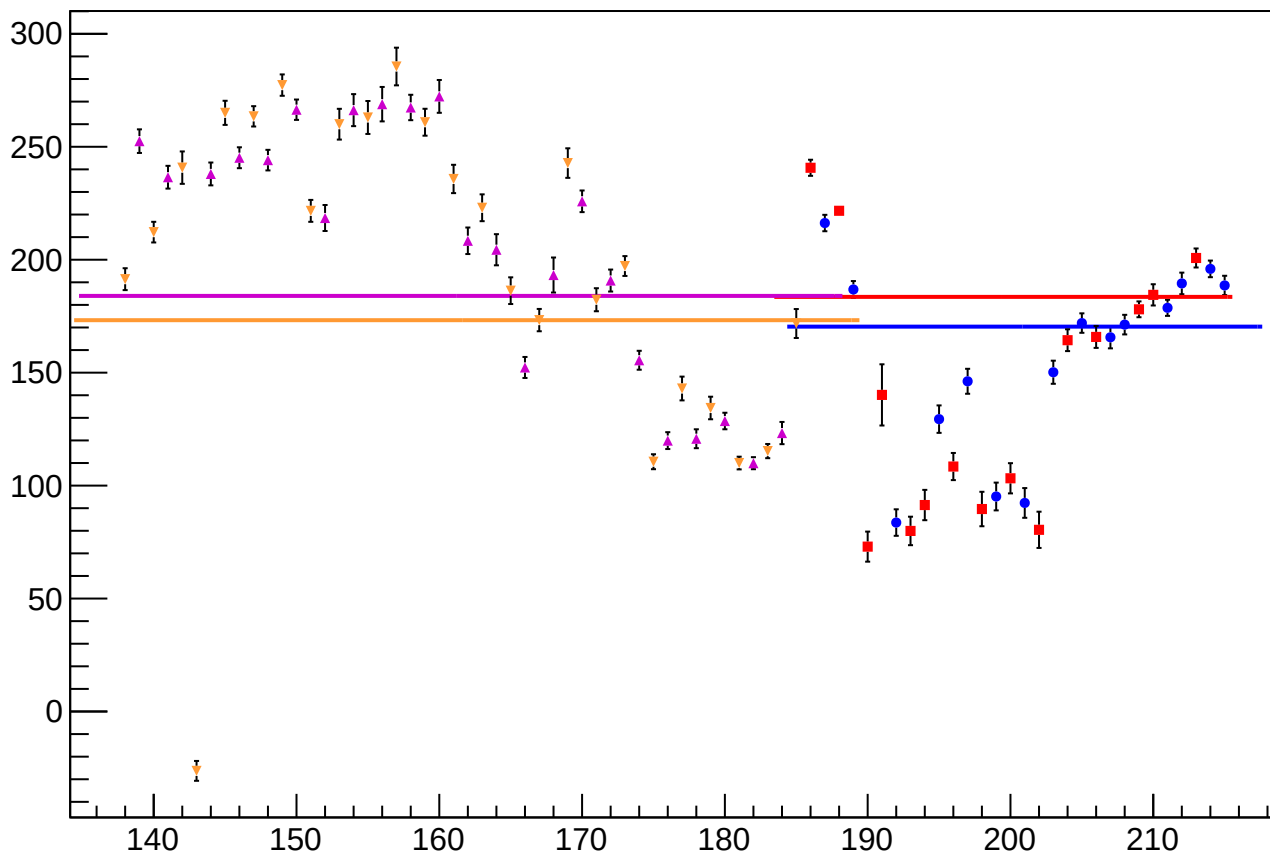
Right: -126.118+/-0.042 χ^2/NDF : 719734.2/65

In: -138.904+/-0.037 χ^2/NDF : 517884.4/54

Out: -132.000+/-0.036 χ^2/NDF : 1092983.6/58

All: -135.338+/-0.026 χ^2/NDF : 1629106.6/111

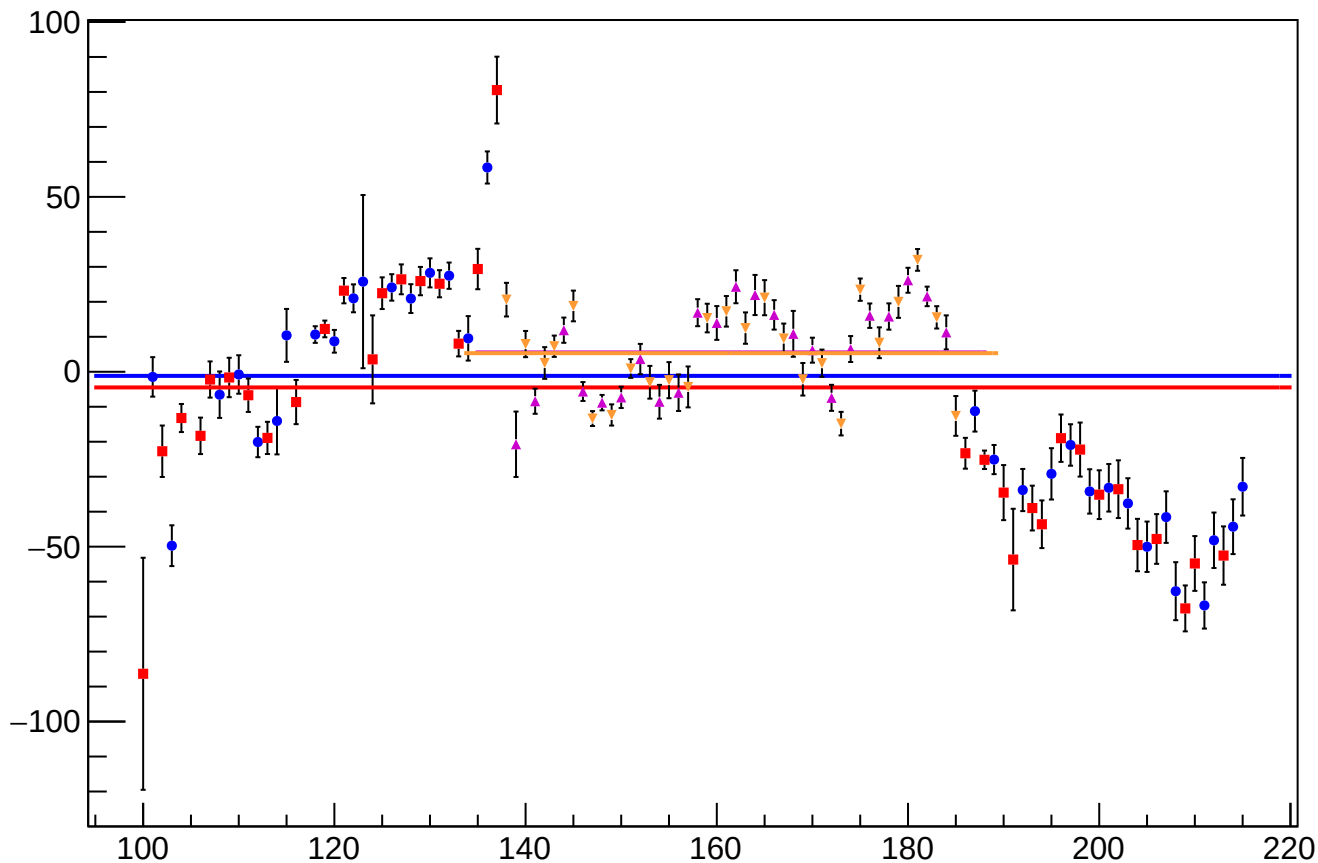
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 170.378 $\pm$ 1.175 χ^2 /NDF: 857.1/14
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24
 Right Out: 183.550 $\pm$ 1.123 χ^2 /NDF: 2086.4/14
 Left In: 183.984 $\pm$ 0.991 χ^2 /NDF: 3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47
 Right: 177.265 $\pm$ 0.812 χ^2 /NDF: 3009.2/29
 In: 178.329 $\pm$ 0.758 χ^2 /NDF: 4549.1/37
 Out: 177.618 $\pm$ 0.732 χ^2 /NDF: 7980.9/39
 All: 177.961 $\pm$ 0.526 χ^2 /NDF: 12530.5/77

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.173 ± 0.908 χ^2/NDF : 987.8/31

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -4.477 ± 0.865 χ^2/NDF : 920.5/33

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

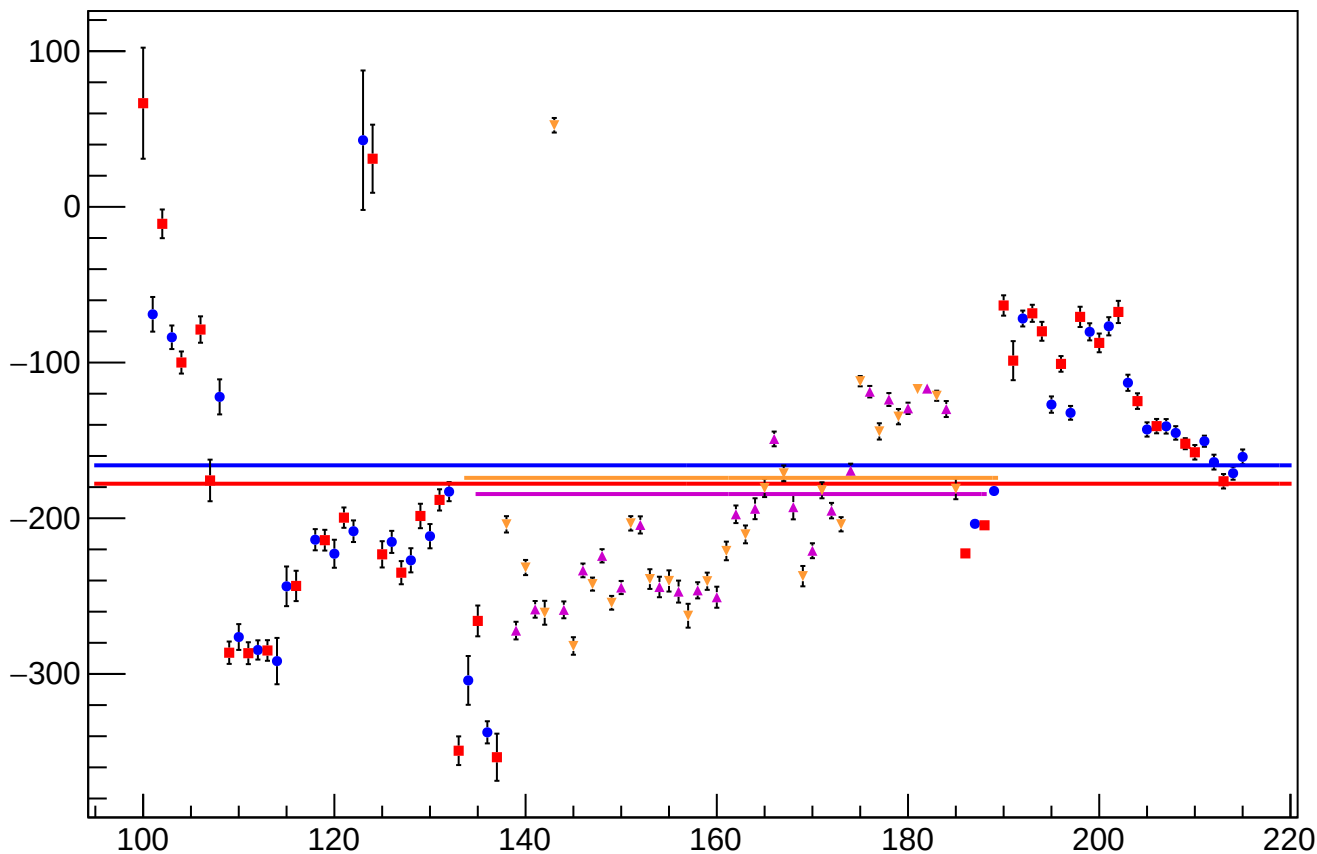
Right: -2.905 ± 0.626 χ^2/NDF : 1915.3/65

In: 2.678 ± 0.592 χ^2/NDF : 1275.4/54

Out: 1.135 ± 0.566 χ^2/NDF : 1339.5/58

All: 1.871 ± 0.409 χ^2/NDF : 2618.5/113

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -166.009 ± 0.974 χ^2/NDF : 3143.0/31

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -177.817 ± 0.878 χ^2/NDF : 4983.5/33

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

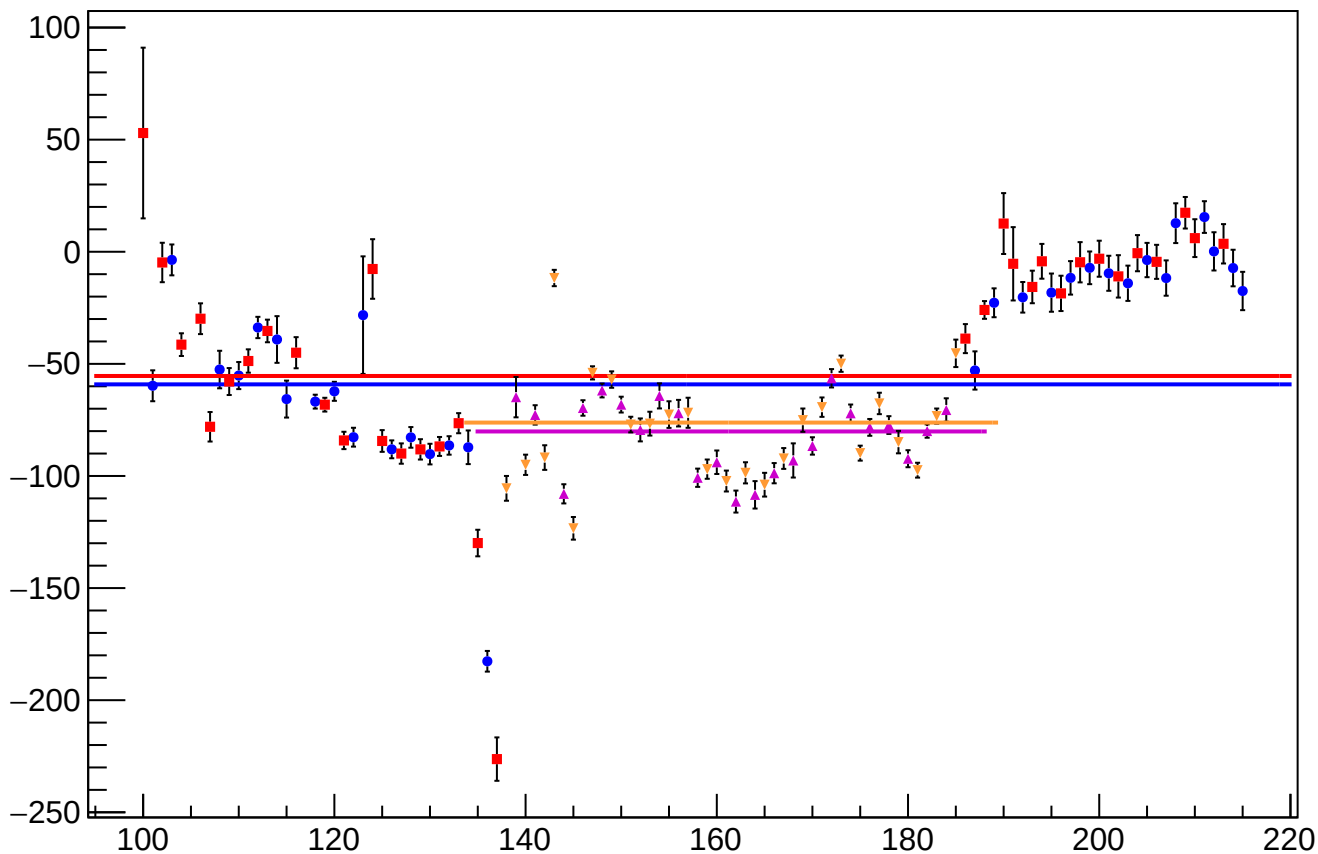
Right: -172.522 ± 0.652 χ^2/NDF : 8207.6/65

In: -175.078 ± 0.695 χ^2/NDF : 6370.9/54

Out: -176.126 ± 0.651 χ^2/NDF : 10435.0/58

All: -175.636 ± 0.475 χ^2/NDF : 16807.1/113

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -59.142 ± 1.053 χ^2/NDF : 1668.7/31

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -55.402 ± 1.025 χ^2/NDF : 1457.9/33

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

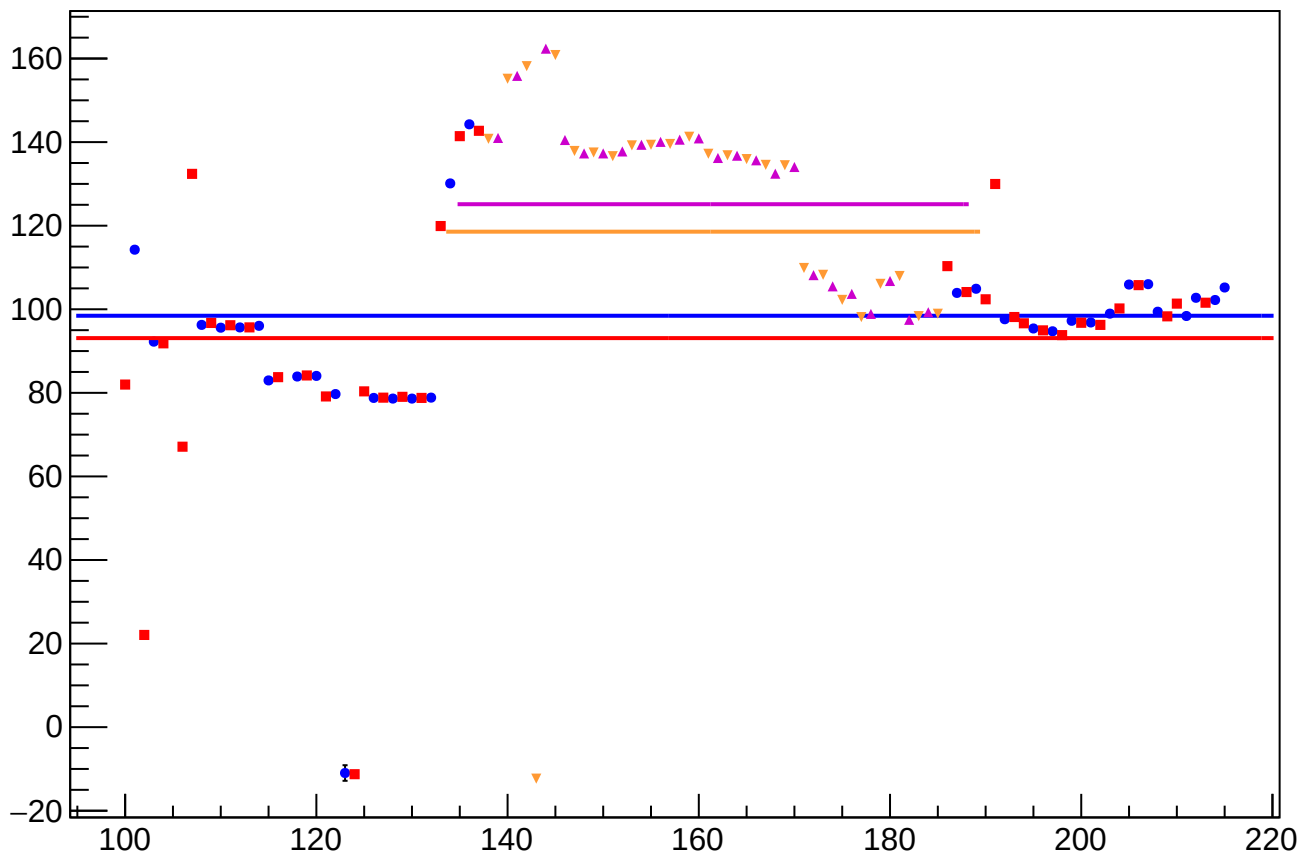
Right: -57.221 ± 0.734 χ^2/NDF : 3133.1/65

In: -71.406 ± 0.679 χ^2/NDF : 2184.4/54

Out: -67.626 ± 0.658 χ^2/NDF : 2500.8/58

All: -69.455 ± 0.472 χ^2/NDF : 4701.1/113

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.448 $\pm$ 0.053 χ^2 /NDF: 96529.7/31

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 93.098 $\pm$ 0.050 χ^2 /NDF: 244294.1/33

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

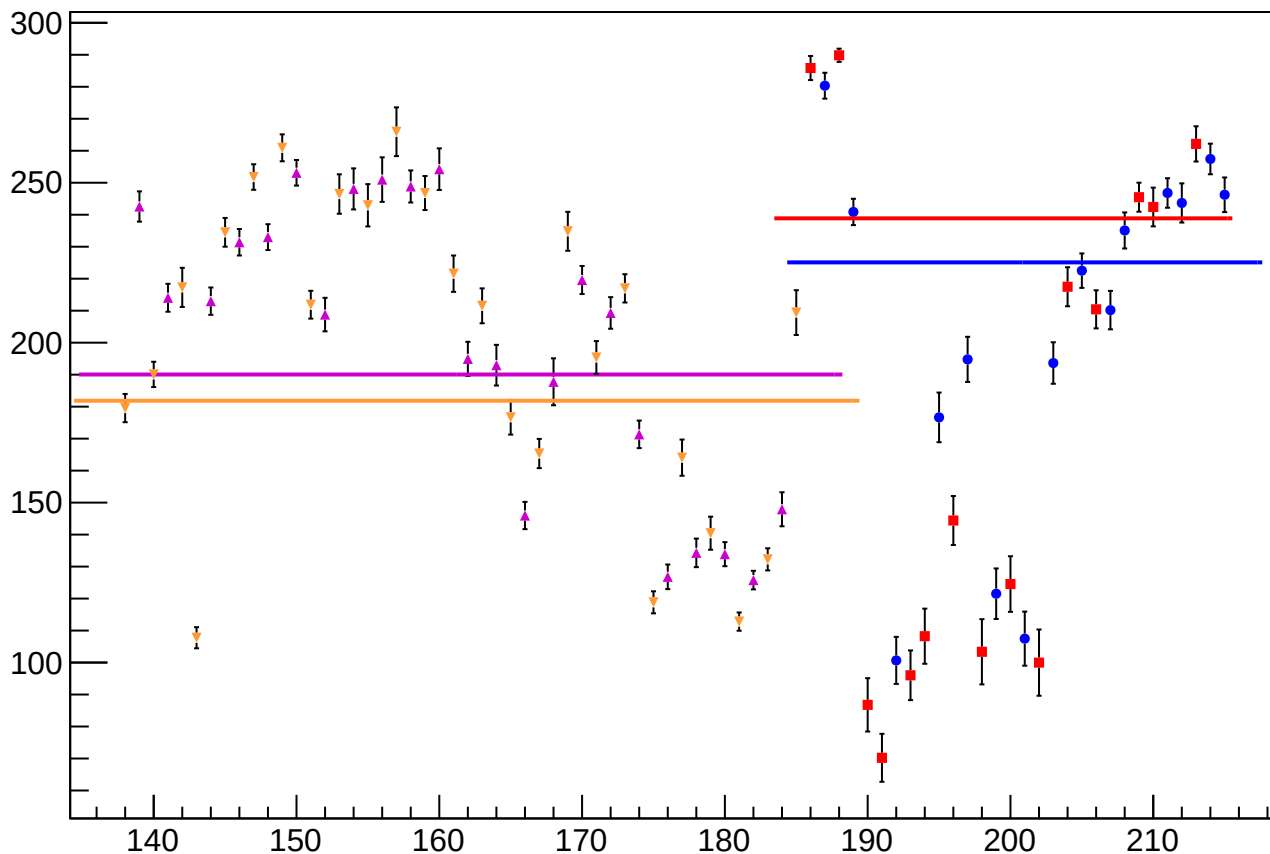
Right: 95.634 $\pm$ 0.036 χ^2 /NDF: 346202.7/65

In: 115.039 $\pm$ 0.033 χ^2 /NDF: 475641.8/54

Out: 108.536 $\pm$ 0.032 χ^2 /NDF: 1128842.2/58

All: 111.683 $\pm$ 0.023 χ^2 /NDF: 1625080.6/113

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.098 $\pm$ 1.452 χ^2 /NDF: 1035.0/14

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 238.867 $\pm$ 1.313 χ^2 /NDF: 2907.2/14

Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47

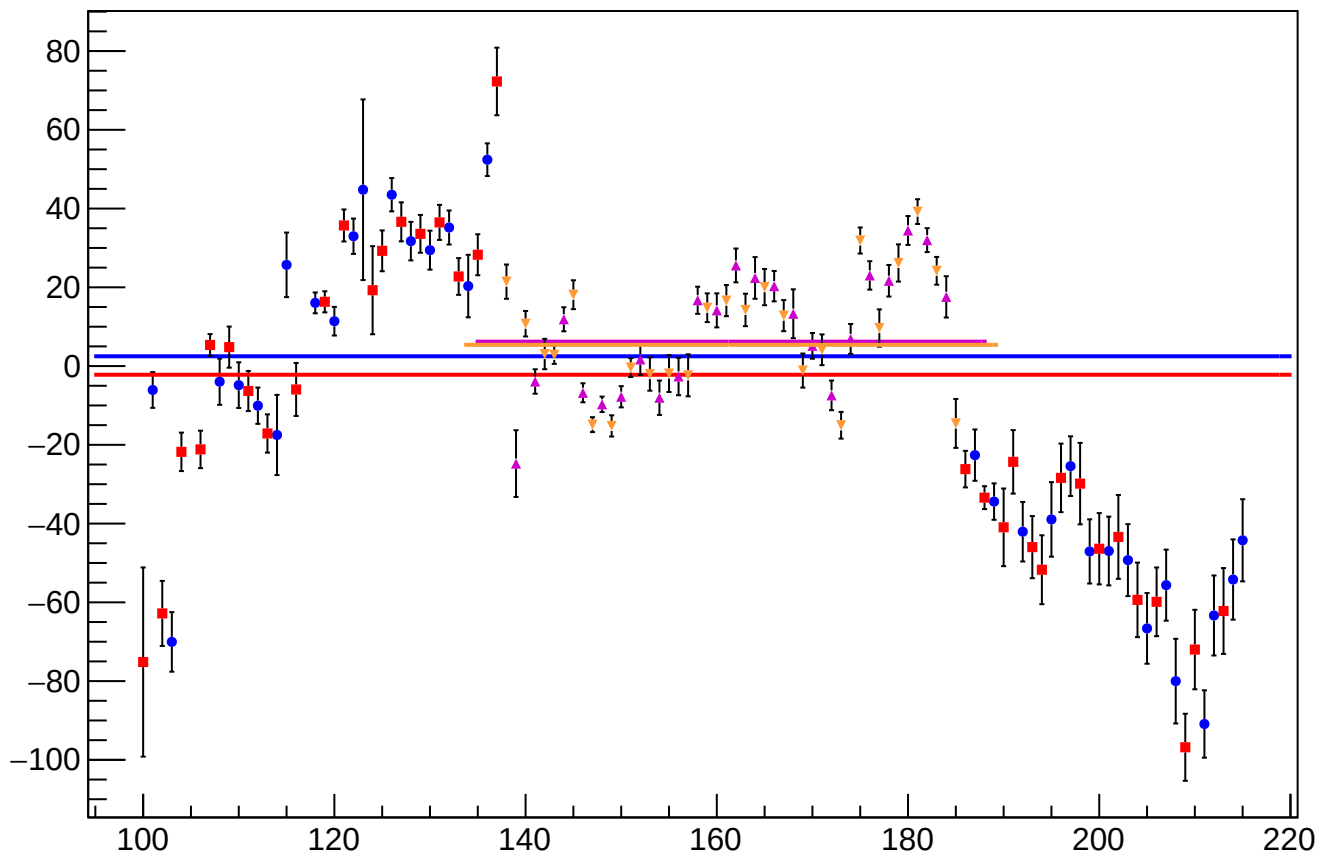
Right: 232.672 $\pm$ 0.974 χ^2 /NDF: 3991.7/29

In: 200.595 $\pm$ 0.797 χ^2 /NDF:3880.6/37

Out: 200.435 $\pm$ 0.750 χ^2 /NDF:7480.8/39

All: 200.510 $\pm$ 0.546 χ^2 /NDF: 11361.4/77

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.489 ± 1.018 $\chi^2/\text{NDF}: 1185.2/31$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -2.203 ± 0.925 $\chi^2/\text{NDF}: 1185.7/33$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

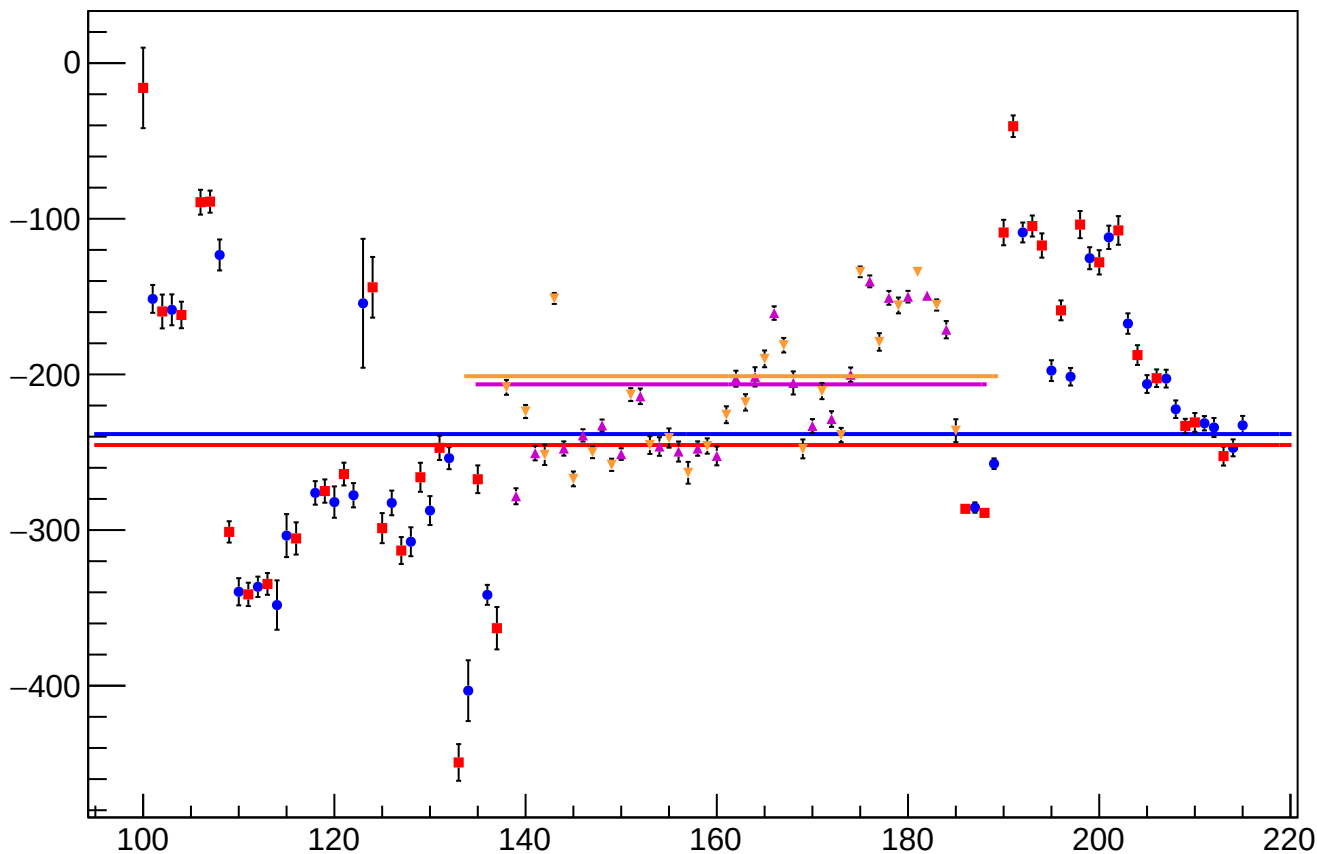
Right: -0.082 ± 0.684 $\chi^2/\text{NDF}: 2382.5/65$

In: 4.940 ± 0.594 $\chi^2/\text{NDF}: 1601.5/54$

Out: 2.687 ± 0.552 $\chi^2/\text{NDF}: 1755.6/58$

All: 3.731 ± 0.404 $\chi^2/\text{NDF}: 3364.8/113$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.328 ± 1.154 χ^2/NDF : 2707.0/31

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -245.368 ± 0.992 χ^2/NDF : 5836.7/33

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

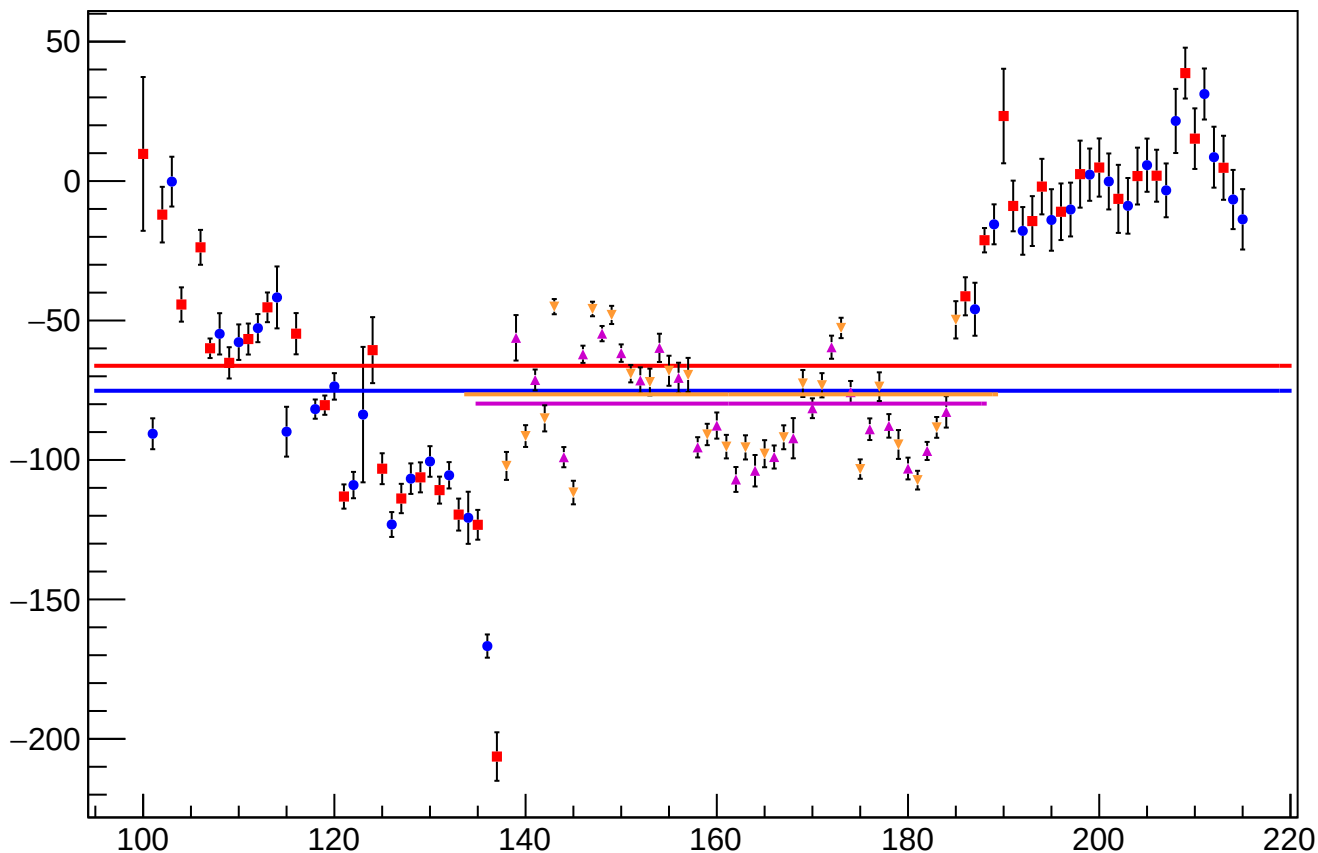
Right: -242.374 ± 0.752 χ^2/NDF : 8565.1/65

In: -219.280 ± 0.733 χ^2/NDF : 5275.7/54

Out: -221.531 ± 0.674 χ^2/NDF : 9395.7/58

All: -220.500 ± 0.496 χ^2/NDF : 14676.6/113

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.184 $\pm$ 1.182 χ^2 /NDF: 1732.7/31

Left Out: -76.460 $\pm$ 0.797 χ^2 /NDF: 781.3/24

Right Out: -66.230 $\pm$ 1.101 χ^2 /NDF: 1700.4/33

Left In: -79.792 $\pm$ 0.840 χ^2 /NDF: 412.3/22

Left: -78.038 $\pm$ 0.578 χ^2 /NDF: 1201.9/47

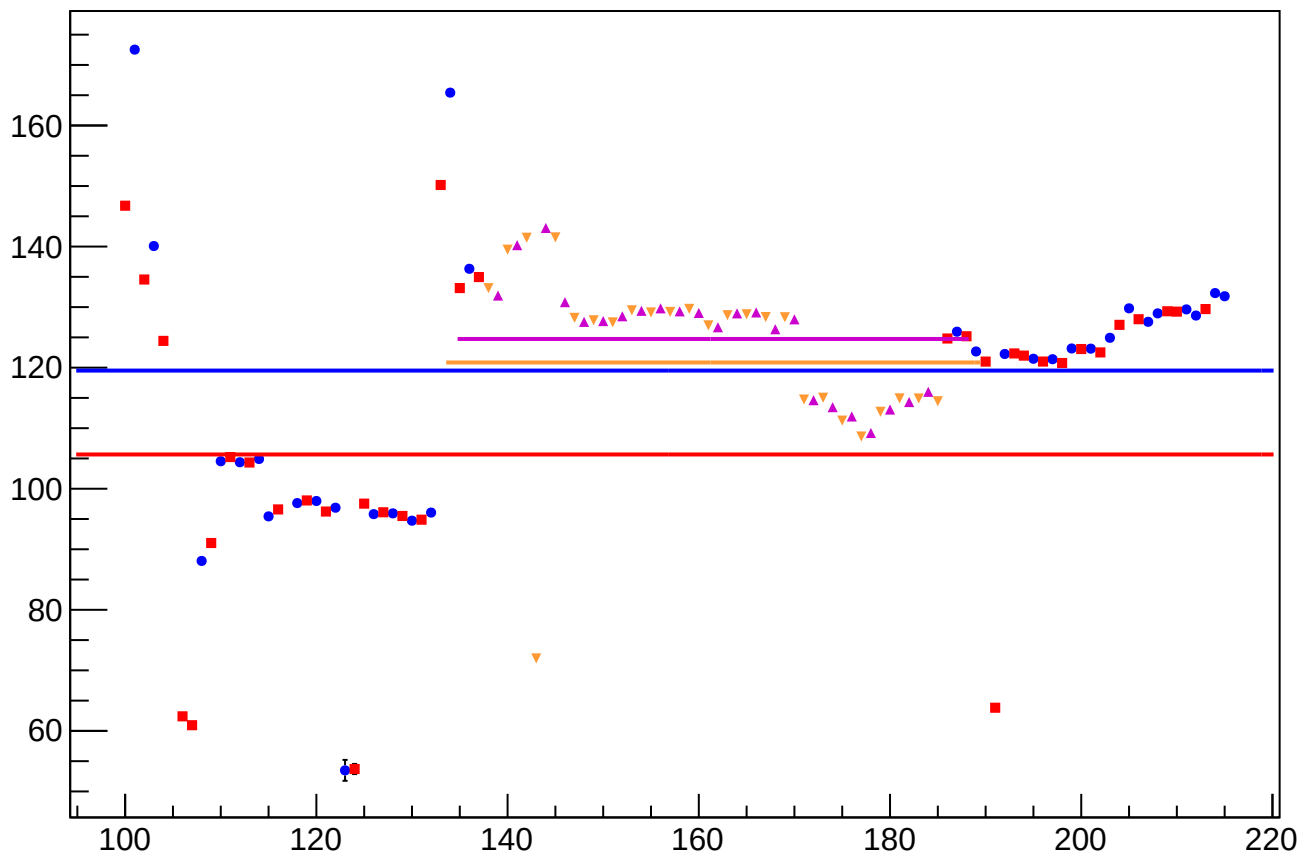
Right: -70.389 $\pm$ 0.806 χ^2 /NDF: 3463.9/65

In: -78.247 $\pm$ 0.685 χ^2 /NDF: 2155.1/54

Out: -72.944 $\pm$ 0.645 χ^2 /NDF: 2538.4/58

All: -75.439 $\pm$ 0.470 χ^2 /NDF: 4725.3/113

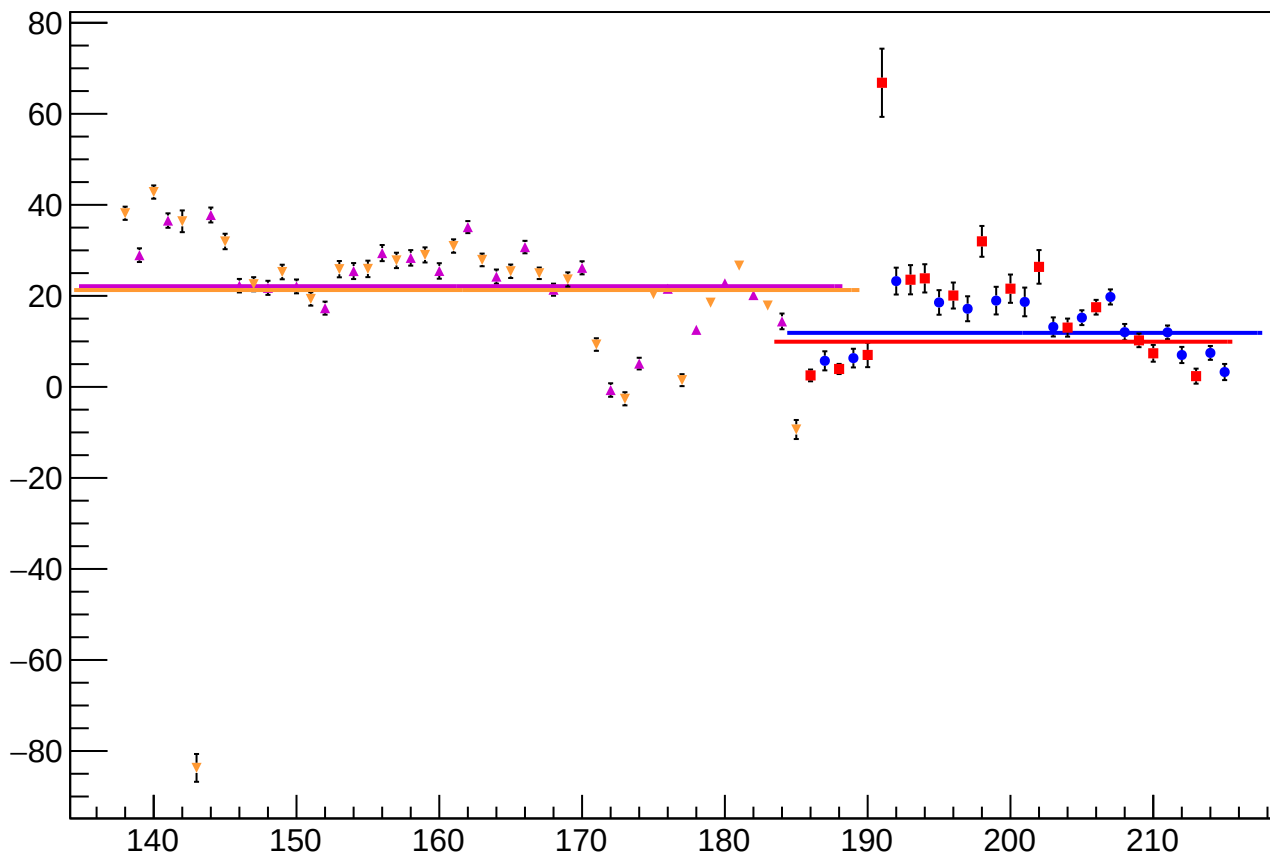
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.516 $\pm$ 0.061 χ^2 /NDF: 111883.1/31
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 105.660 $\pm$ 0.054 χ^2 /NDF: 250047.7/33
 Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47
 Right: 111.782 $\pm$ 0.040 χ^2 /NDF: 390963.1/65
 In: 123.200 $\pm$ 0.033 χ^2 /NDF:168393.8/54
 Out: 115.819 $\pm$ 0.031 χ^2 /NDF:485644.7/58
 All: 119.297 $\pm$ 0.023 χ^2 /NDF: 680546.1/113

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.873+/-0.510 χ^2 /NDF: 117.1/14

Left Out: 21.282+/-0.282 χ^2 /NDF:2600.5/24

Right Out: 9.929+/-0.507 χ^2 /NDF: 294.7/14

Left In: 22.127+/-0.285 χ^2 /NDF:900.2/22

Left: 21.700+/-0.201 χ^2 /NDF: 3505.2/47

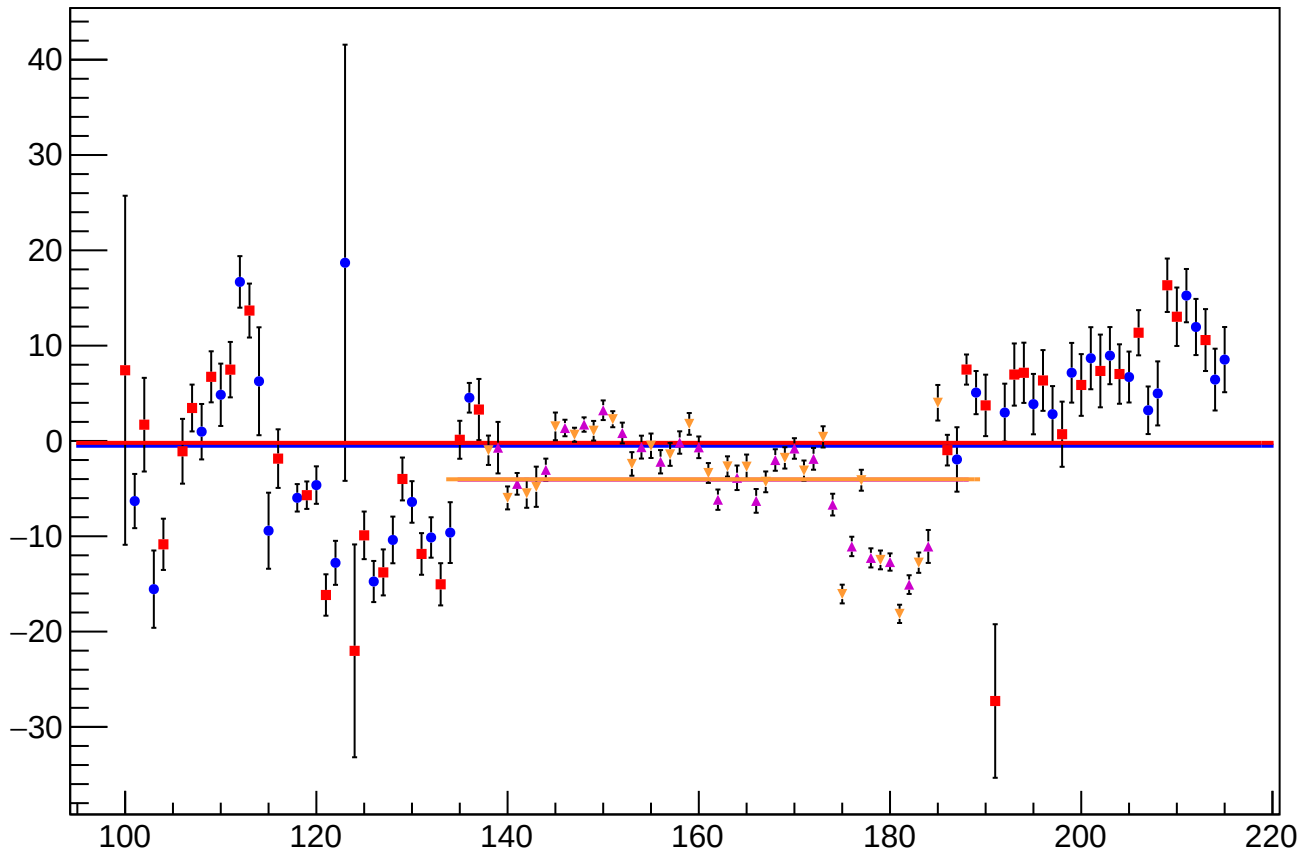
Right: 10.895+/-0.360 χ^2 /NDF: 419.1/29

In: 19.683+/-0.249 χ^2 /NDF:1324.7/37

Out: 18.594+/-0.247 χ^2 /NDF:3277.8/39

All: 19.133+/-0.175 χ^2 /NDF: 4612.2/77

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.502 ± 0.466 $\chi^2/\text{NDF}: 329.9/31$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -0.199 ± 0.449 $\chi^2/\text{NDF}: 405.1/33$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

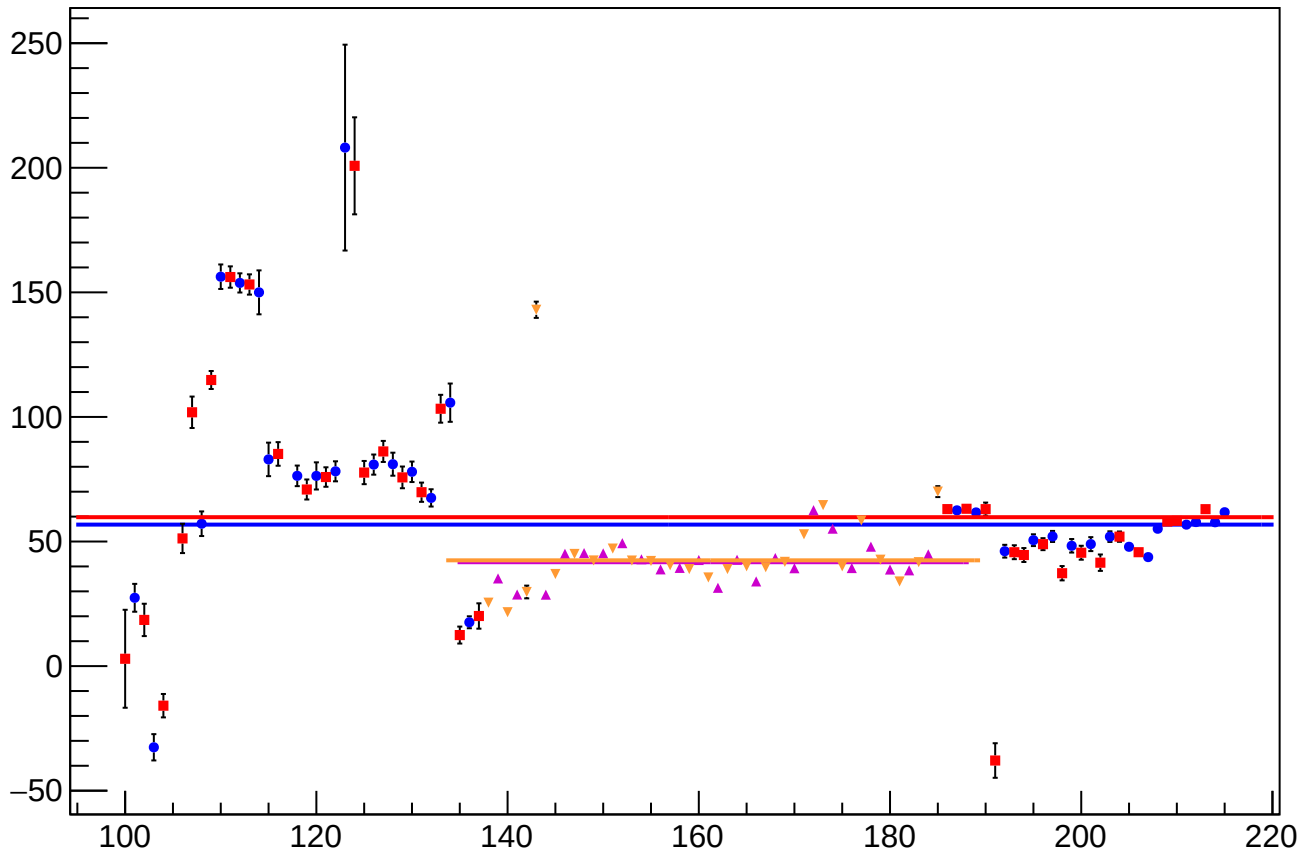
Right: -0.345 ± 0.323 $\chi^2/\text{NDF}: 735.2/65$

In: -3.371 ± 0.205 $\chi^2/\text{NDF}: 954.2/54$

Out: -3.263 ± 0.200 $\chi^2/\text{NDF}: 1197.4/58$

All: -3.316 ± 0.143 $\chi^2/\text{NDF}: 2151.8/113$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.788 $\pm$ 0.451 χ^2 /NDF: 2142.3/31

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.767 $\pm$ 0.420 χ^2 /NDF: 2632.8/33

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

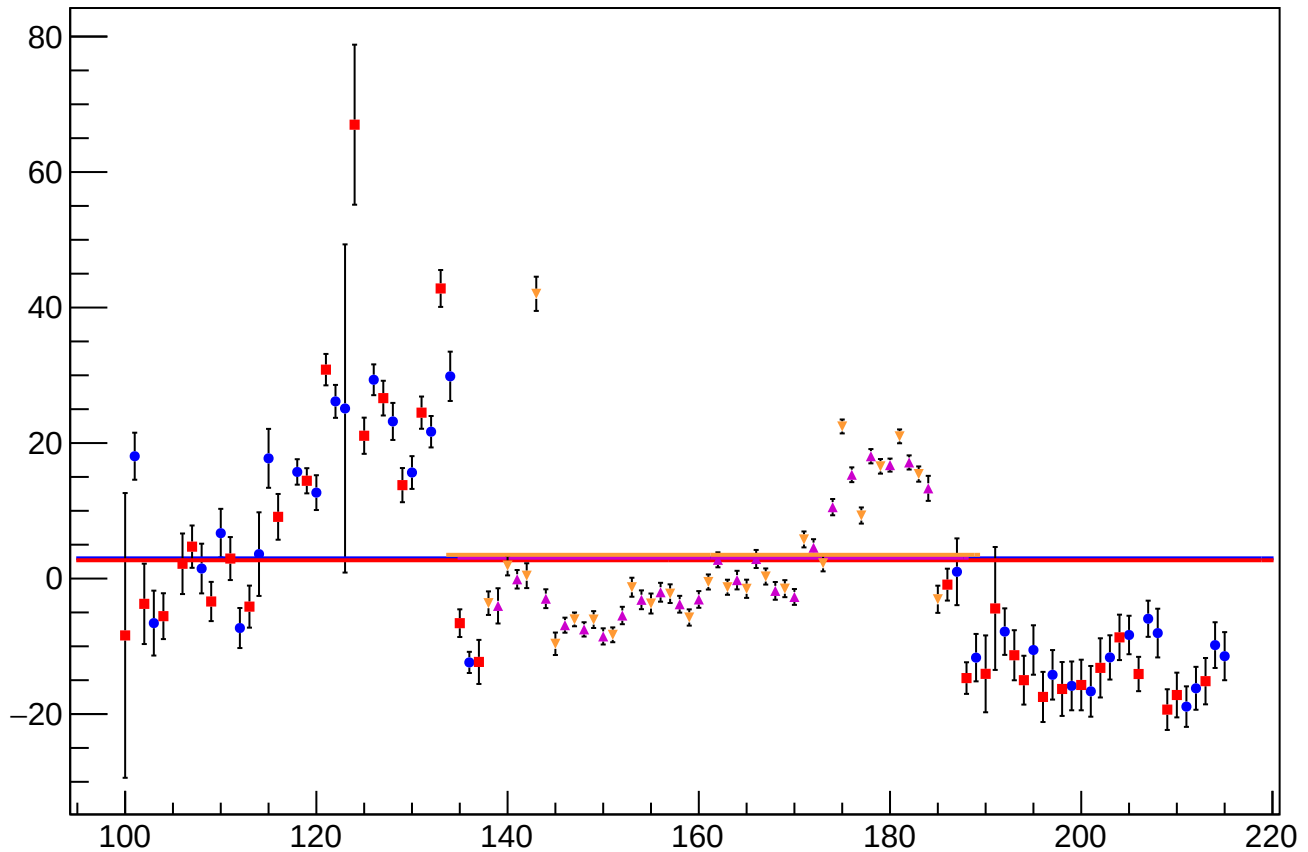
Right: 58.381 $\pm$ 0.307 χ^2 /NDF: 4798.5/65

In: 45.987 $\pm$ 0.240 χ^2 /NDF:3575.0/54

Out: 47.825 $\pm$ 0.234 χ^2 /NDF:5819.1/58

All: 46.930 $\pm$ 0.168 χ^2 /NDF: 9424.1/113

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.981 ± 0.529 χ^2/NDF : 928.3/31

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 2.701 ± 0.526 χ^2/NDF : 1103.2/33

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

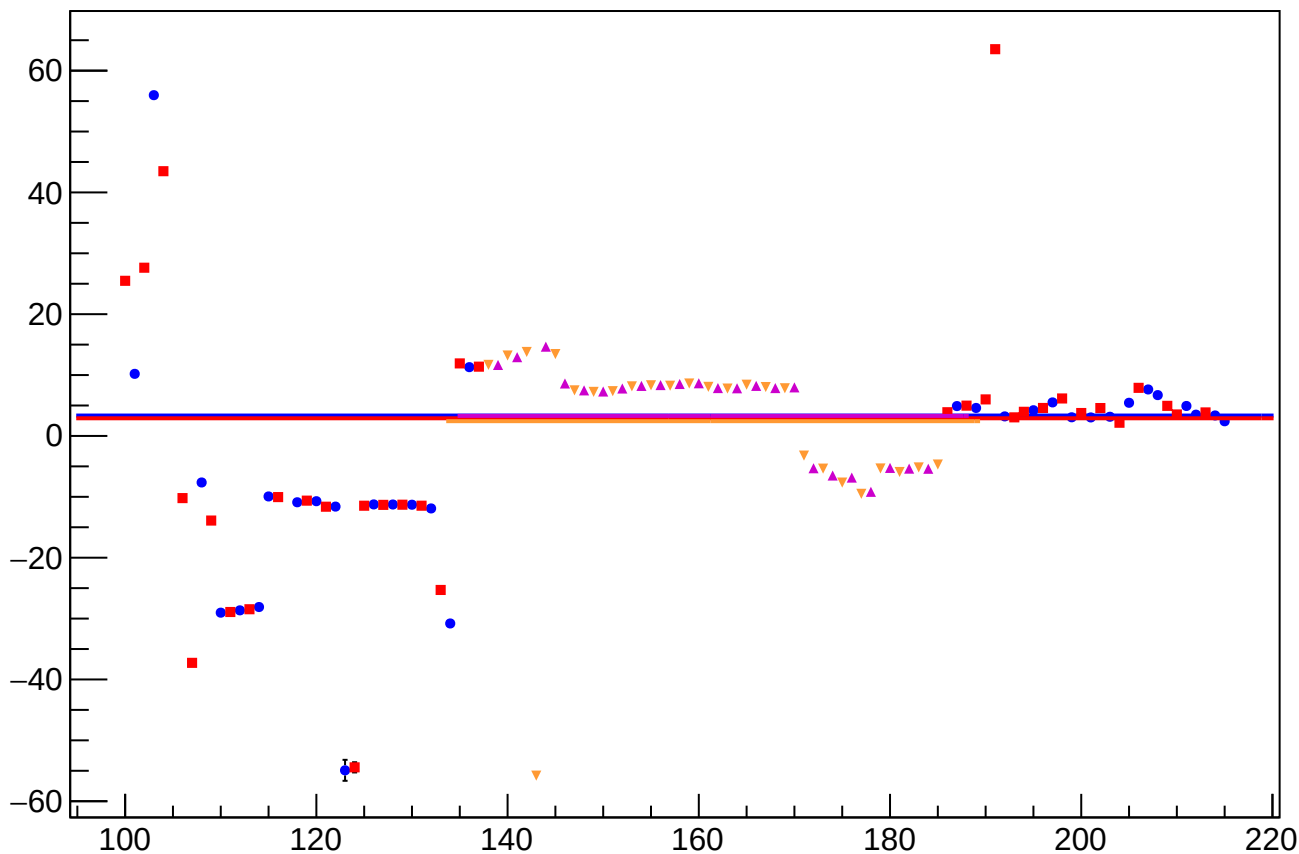
Right: 2.840 ± 0.373 χ^2/NDF : 2031.7/65

In: 3.062 ± 0.231 χ^2/NDF : 2194.1/54

Out: 3.355 ± 0.228 χ^2/NDF : 2796.4/58

All: 3.211 ± 0.162 χ^2/NDF : 4991.3/113

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.350 $\pm$ 0.025 χ^2 /NDF: 362423.6/31

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.899 $\pm$ 0.025 χ^2 /NDF: 434531.1/33

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

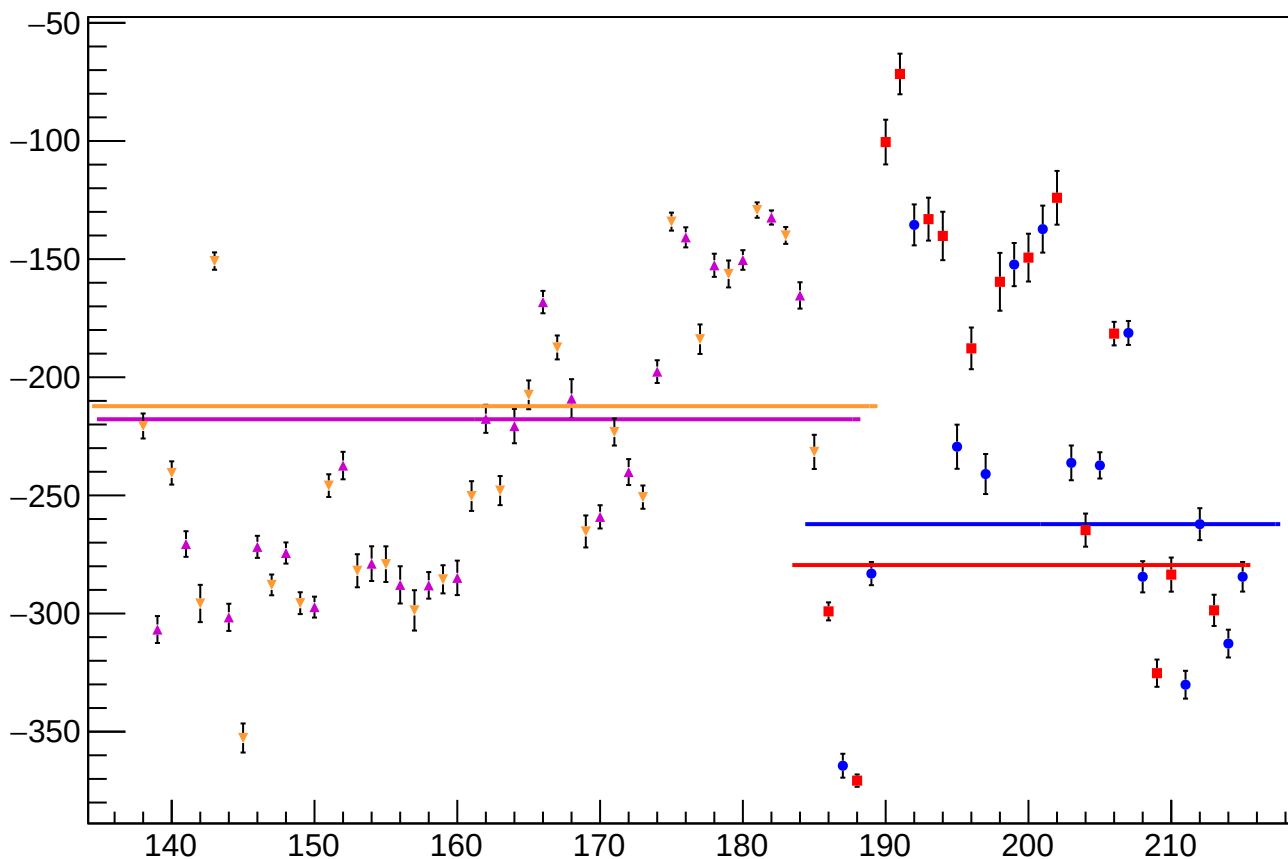
Right: 3.124 $\pm$ 0.018 χ^2 /NDF: 797120.4/65

In: 3.303 $\pm$ 0.011 χ^2 /NDF: 766751.8/54

Out: 2.510 $\pm$ 0.010 χ^2 /NDF: 1051214.0/58

All: 2.904 $\pm$ 0.007 χ^2 /NDF: 1820809.9/113

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -262.166 $\pm$ 1.669 χ^2 /NDF: 1478.5/14

Left Out: -212.231 $\pm$ 1.029 χ^2 /NDF:3875.4/24

Right Out: -279.490 $\pm$ 1.522 χ^2 /NDF: 3652.1/14

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

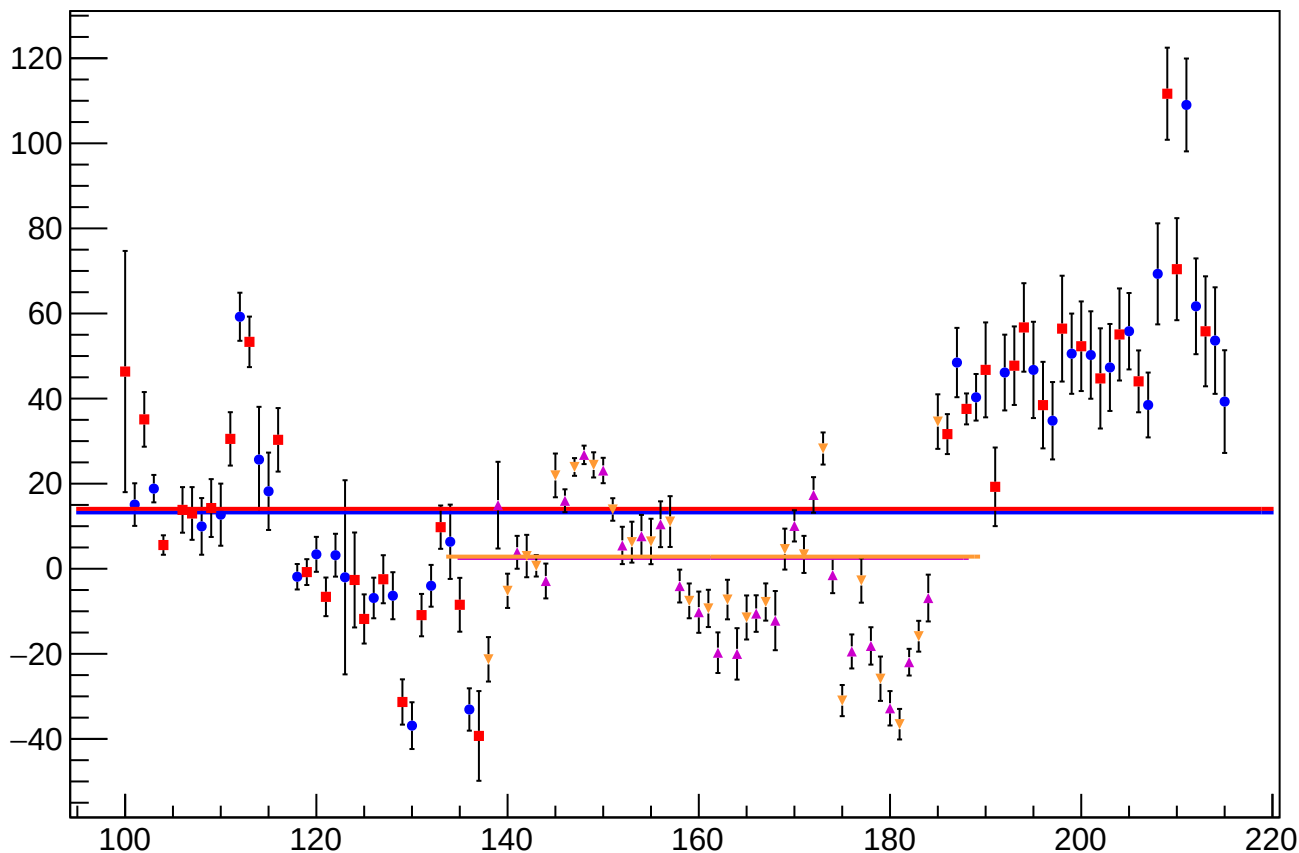
Right: -271.620 $\pm$ 1.125 χ^2 /NDF: 5189.4/29

In: -230.659 $\pm$ 0.899 χ^2 /NDF:5429.8/37

Out: -233.336 $\pm$ 0.853 χ^2 /NDF:8867.0/39

All: -232.068 $\pm$ 0.619 χ^2 /NDF: 14301.4/77

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.238 $\pm$ 1.103 χ^2 /NDF: 596.9/31

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF: 582.1/24

Right Out: 14.081 $\pm$ 1.006 χ^2 /NDF: 570.8/33

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

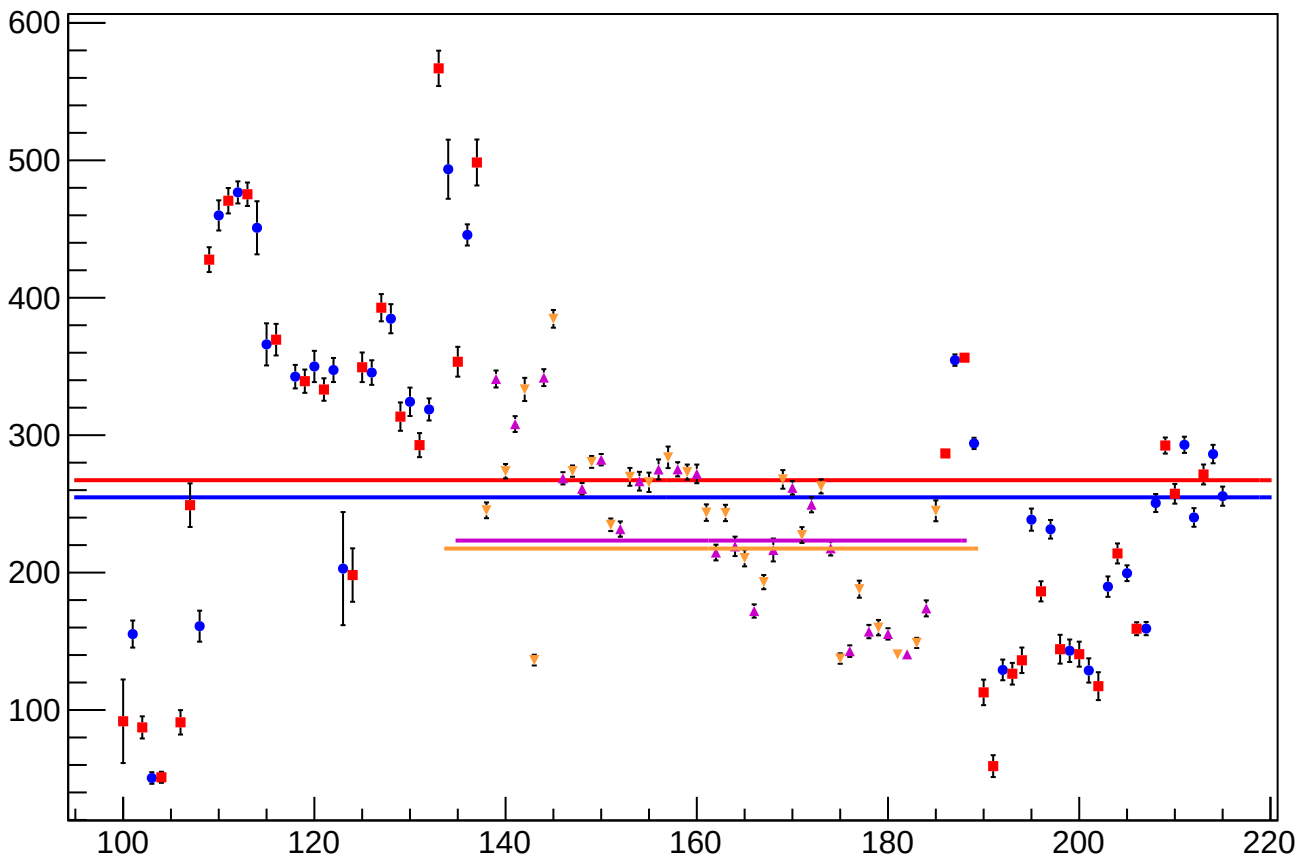
Right: 13.698 $\pm$ 0.743 χ^2 /NDF: 1168.0/65

In: 6.362 $\pm$ 0.659 χ^2 /NDF: 1131.0/54

Out: 7.029 $\pm$ 0.614 χ^2 /NDF: 1231.2/58

All: 6.720 $\pm$ 0.449 χ^2 /NDF: 2362.7/113

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.774 $\pm$ 1.277 χ^2 /NDF: 7140.8/31

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 267.219 $\pm$ 1.117 χ^2 /NDF: 11052.1/33

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF:3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

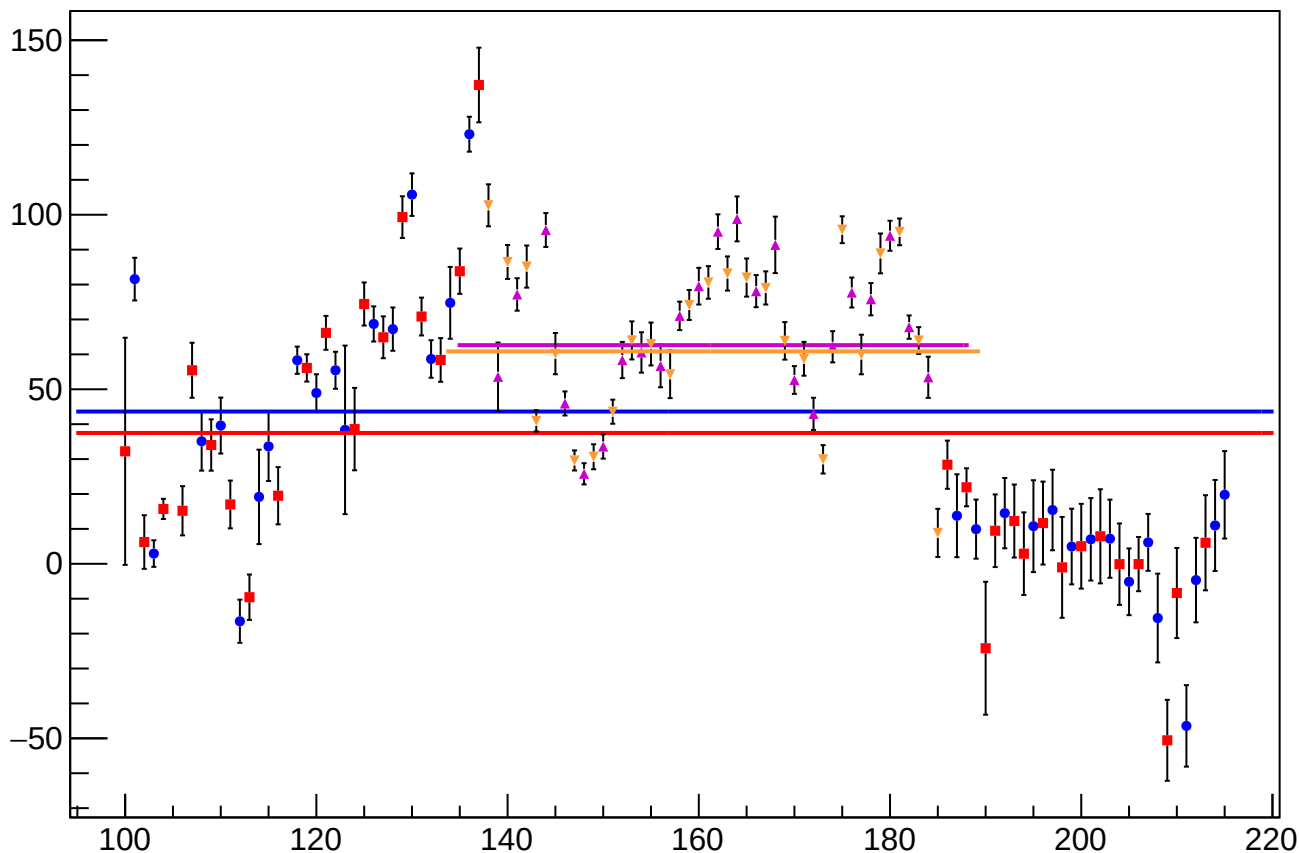
Right: 261.826 $\pm$ 0.841 χ^2 /NDF: 18246.7/65

In: 236.166 $\pm$ 0.817 χ^2 /NDF:10877.6/54

Out: 240.391 $\pm$ 0.758 χ^2 /NDF:15890.6/58

All: 238.435 $\pm$ 0.556 χ^2 /NDF: 26782.6/113

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.624 $\pm$ 1.282 χ^2 /NDF: 916.1/31

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.490 $\pm$ 1.203 χ^2 /NDF: 738.7/33

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF: 515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

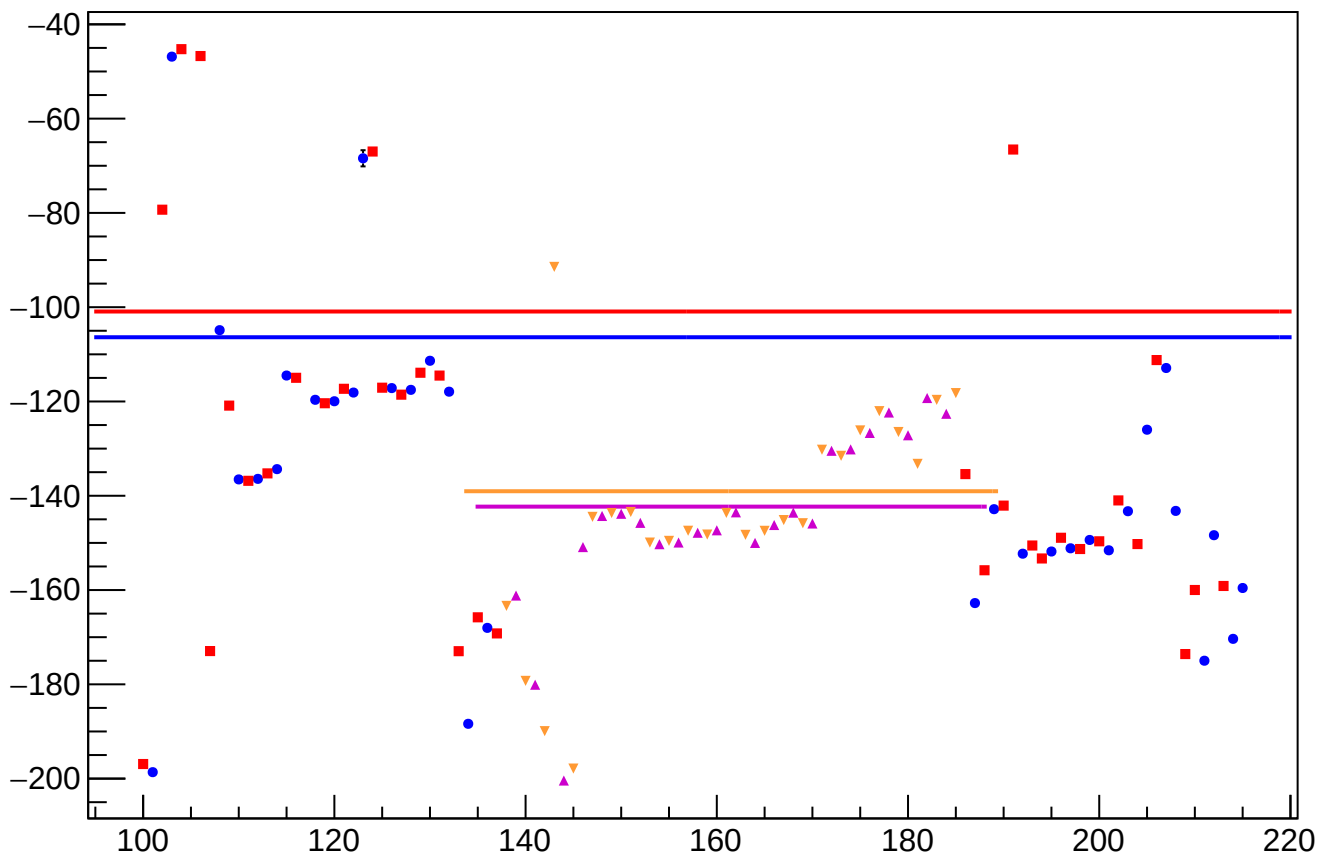
Right: 40.361 $\pm$ 0.877 χ^2 /NDF: 1667.0/65

In: 55.968 $\pm$ 0.760 χ^2 /NDF: 1574.3/54

Out: 52.513 $\pm$ 0.719 χ^2 /NDF: 1713.1/58

All: 54.145 $\pm$ 0.522 χ^2 /NDF: 3298.3/113

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -106.374 ± 0.057 $\chi^2/\text{NDF}: 737025.4/31$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -100.915 ± 0.054 $\chi^2/\text{NDF}: 764581.0/33$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

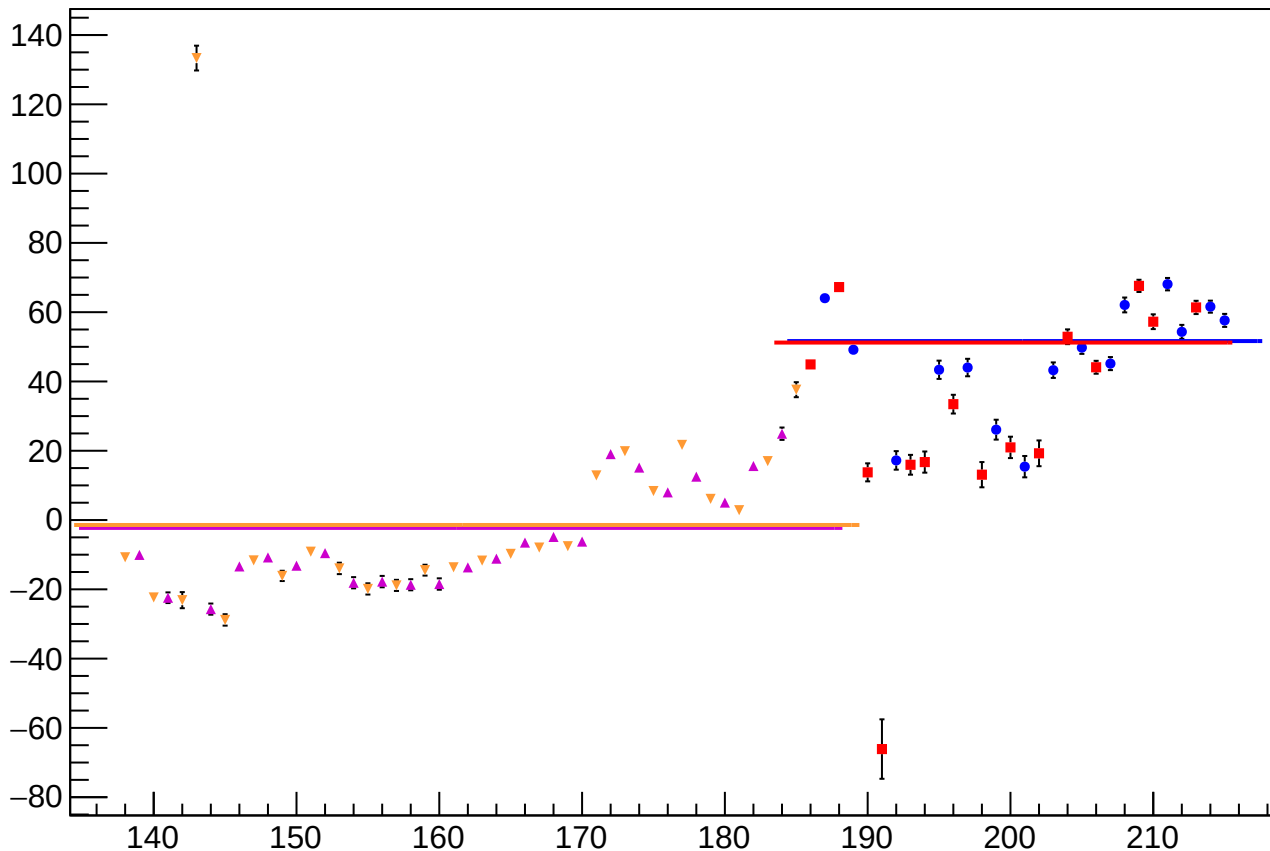
Right: -103.506 ± 0.039 $\chi^2/\text{NDF}: 1506375.3/65$

In: -128.947 ± 0.035 $\chi^2/\text{NDF}: 1127418.7/54$

Out: -124.453 ± 0.034 $\chi^2/\text{NDF}: 1325296.9/58$

All: -126.618 ± 0.024 $\chi^2/\text{NDF}: 2461290.8/111$

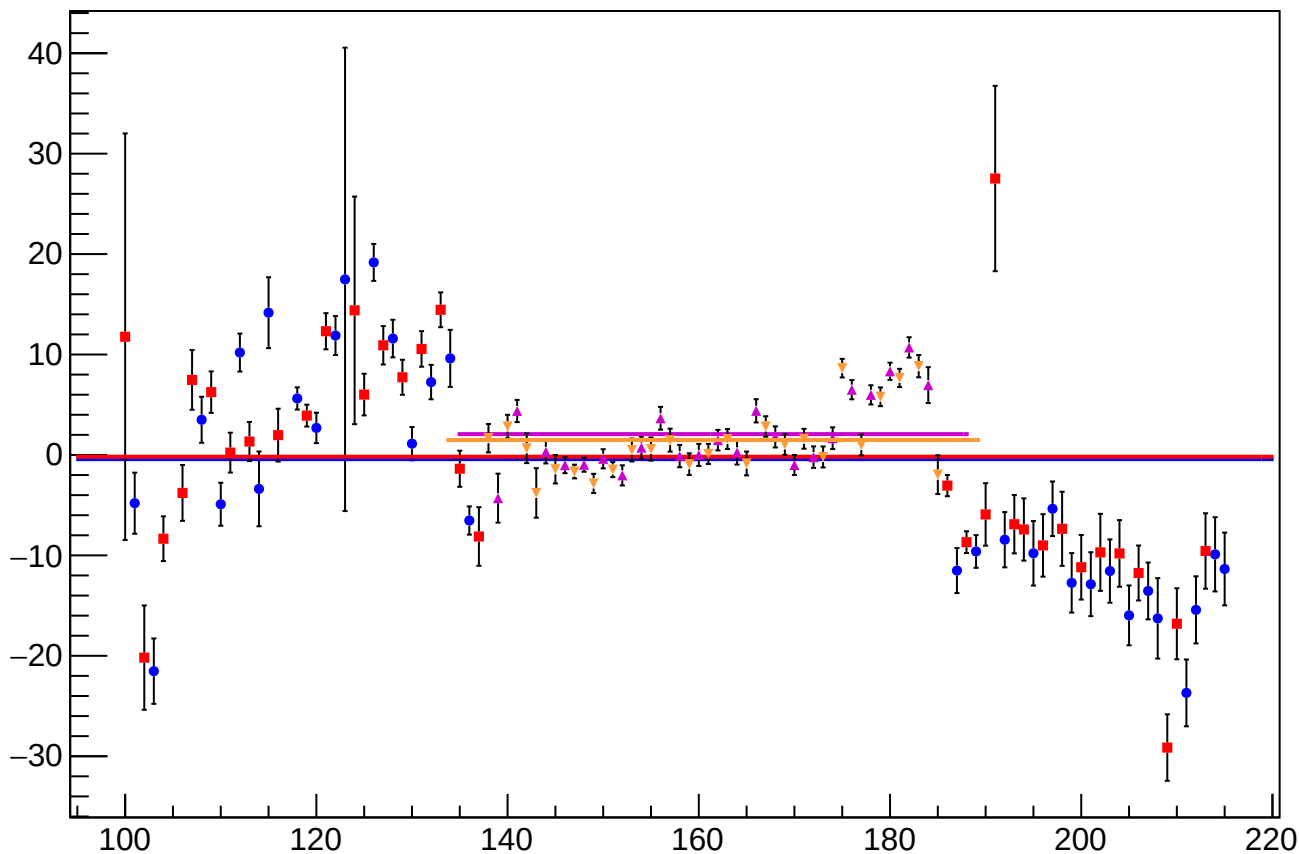
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 51.663 ± 0.511 $\chi^2/\text{NDF}: 663.4/14$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 51.229 ± 0.443 $\chi^2/\text{NDF}: 1615.1/14$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 51.415 ± 0.335 $\chi^2/\text{NDF}: 2278.9/29$
 In: 9.550 ± 0.239 $\chi^2/\text{NDF}: 11882.4/37$
 Out: 12.673 ± 0.229 $\chi^2/\text{NDF}: 16319.9/39$
 All: 11.180 ± 0.165 $\chi^2/\text{NDF}: 28291.2/77$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.418 ± 0.396 χ^2/NDF : 654.1/31

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.175 ± 0.369 χ^2/NDF : 544.3/33

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

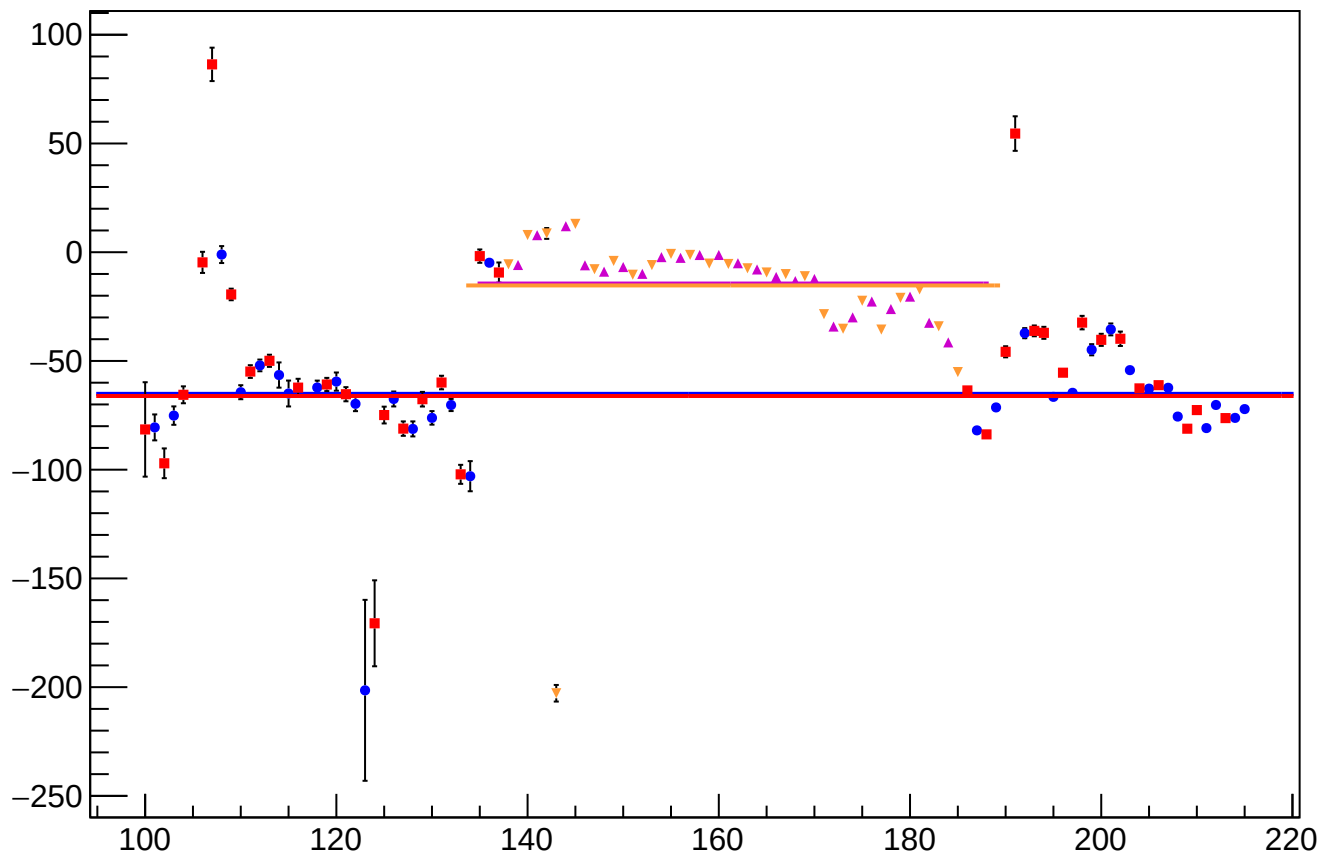
Right: -0.288 ± 0.270 χ^2/NDF : 1198.6/65

In: 1.506 ± 0.189 χ^2/NDF : 959.2/54

Out: 1.082 ± 0.183 χ^2/NDF : 818.7/58

All: 1.287 ± 0.131 χ^2/NDF : 1780.6/113

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.126 ± 0.418 $\chi^2/\text{NDF}: 1909.9/31$

Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$

Right Out: -66.112 ± 0.347 $\chi^2/\text{NDF}: 3420.5/33$

Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$

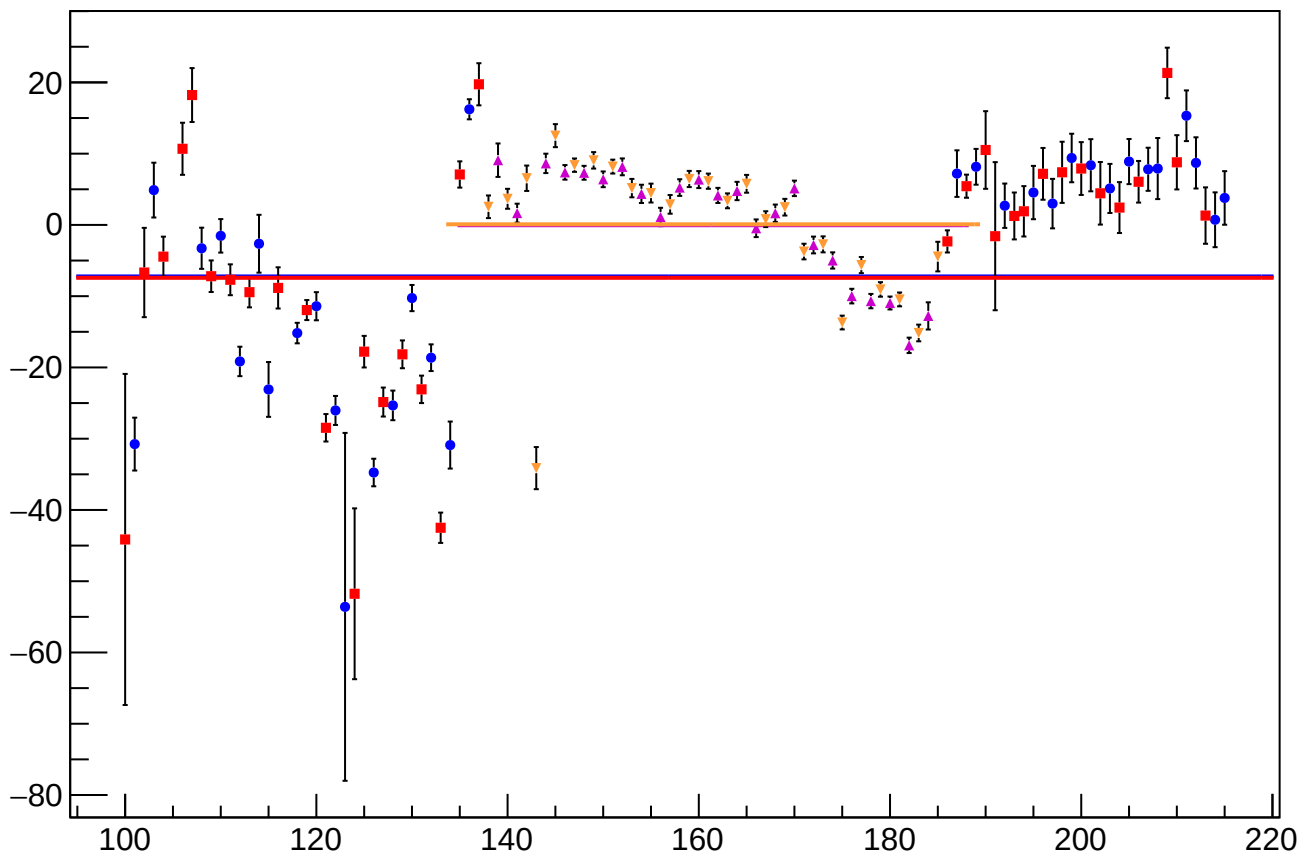
Right: -65.710 ± 0.267 $\chi^2/\text{NDF}: 5333.7/65$

In: -29.248 ± 0.226 $\chi^2/\text{NDF}: 14337.3/54$

Out: -34.142 ± 0.212 $\chi^2/\text{NDF}: 21712.3/58$

All: -31.860 ± 0.155 $\chi^2/\text{NDF}: 36299.1/113$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.231 ± 0.458 $\chi^2/\text{NDF}: 1155.6/31$

Left Out: 0.087 ± 0.238 $\chi^2/\text{NDF}: 1172.3/24$

Right Out: -7.421 ± 0.442 $\chi^2/\text{NDF}: 1097.3/33$

Left In: -0.044 ± 0.243 $\chi^2/\text{NDF}: 1028.2/22$

Left: 0.023 ± 0.170 $\chi^2/\text{NDF}: 2200.6/47$

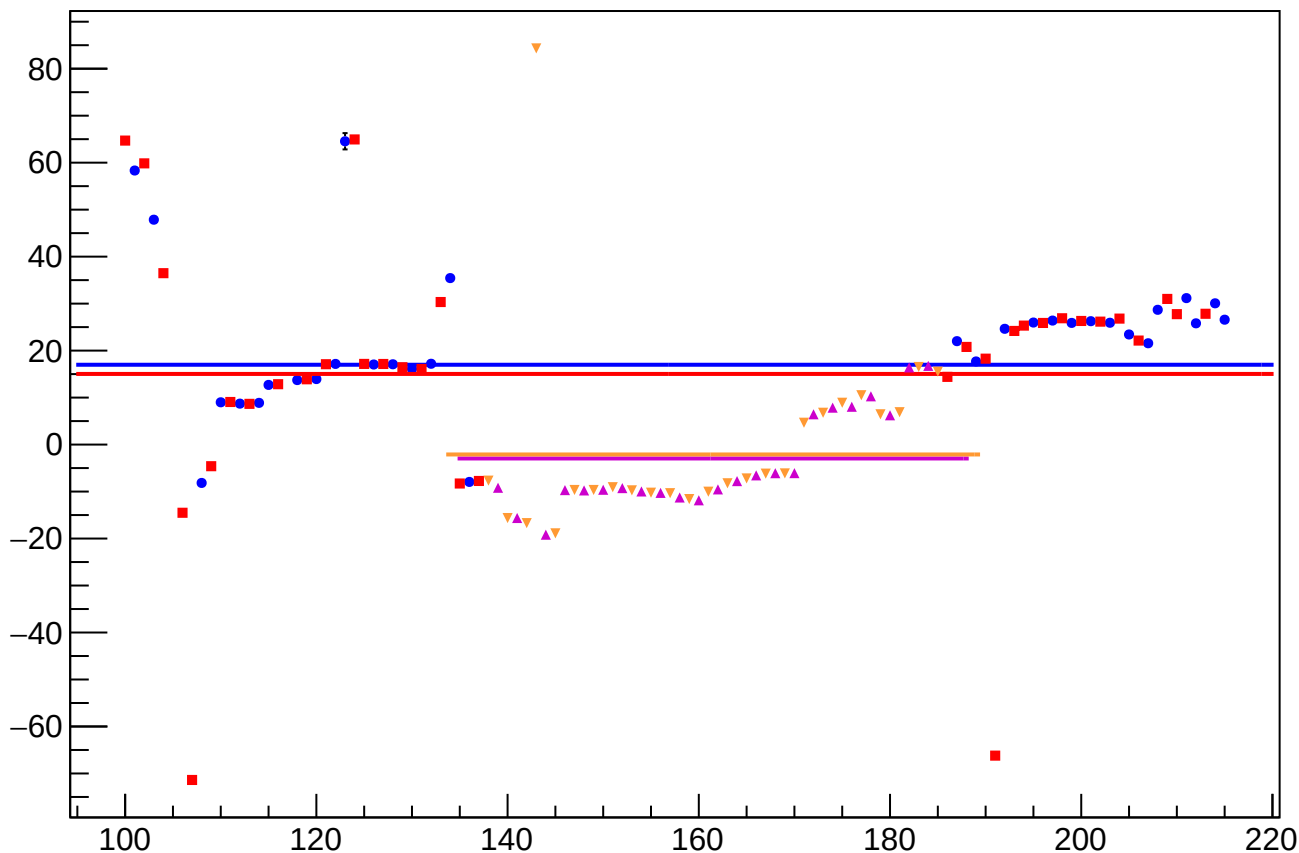
Right: -7.329 ± 0.318 $\chi^2/\text{NDF}: 2253.0/65$

In: -1.625 ± 0.215 $\chi^2/\text{NDF}: 2376.1/54$

Out: -1.604 ± 0.210 $\chi^2/\text{NDF}: 2493.3/58$

All: -1.614 ± 0.150 $\chi^2/\text{NDF}: 4869.4/113$

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.989+/-0.023 χ^2/NDF : 492579.0/31

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.034+/-0.022 χ^2/NDF : 767603.3/33

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

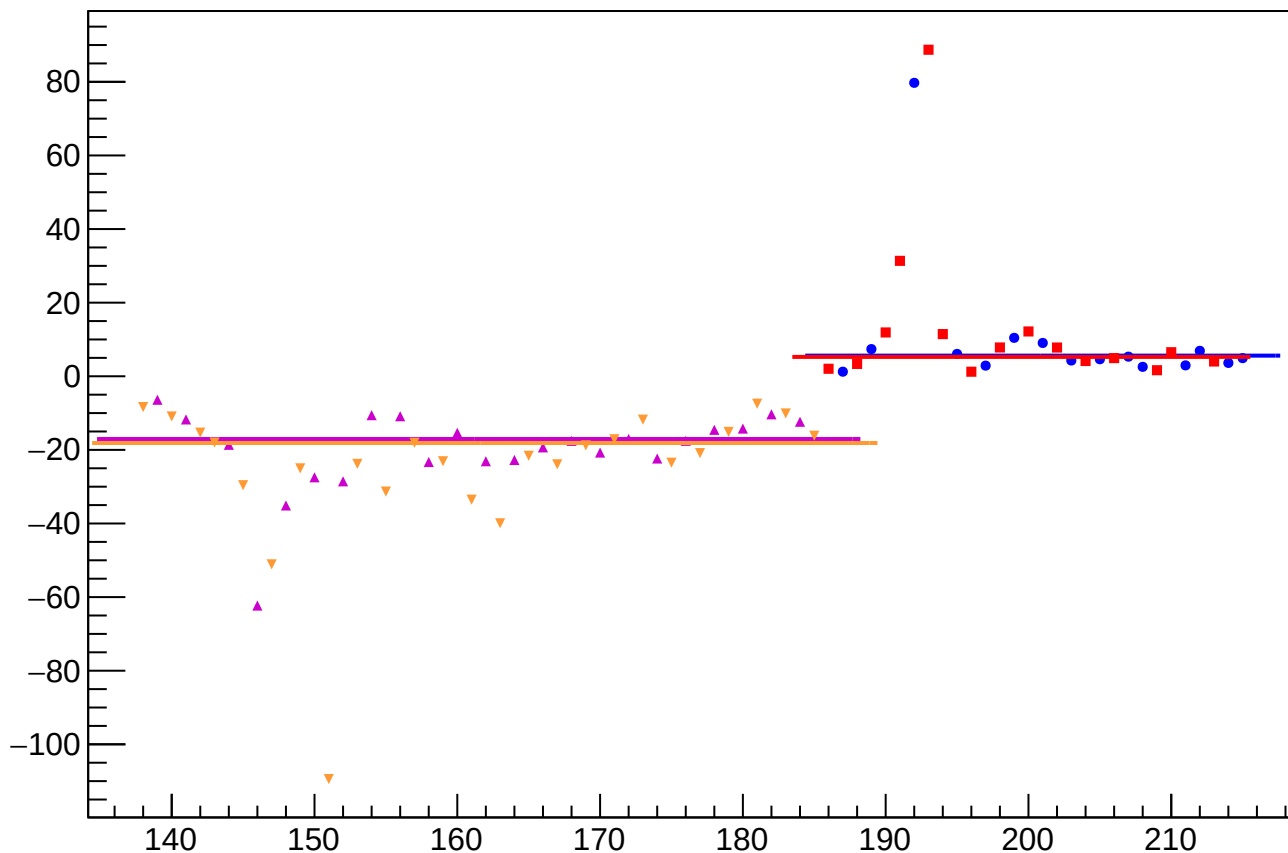
Right: 16.001+/-0.016 χ^2/NDF : 1263937.3/65

In: 0.838+/-0.010 χ^2/NDF : 1881458.4/54

Out: 1.177+/-0.010 χ^2/NDF : 2332276.5/58

All: 1.009+/-0.007 χ^2/NDF : 4214325.1/113

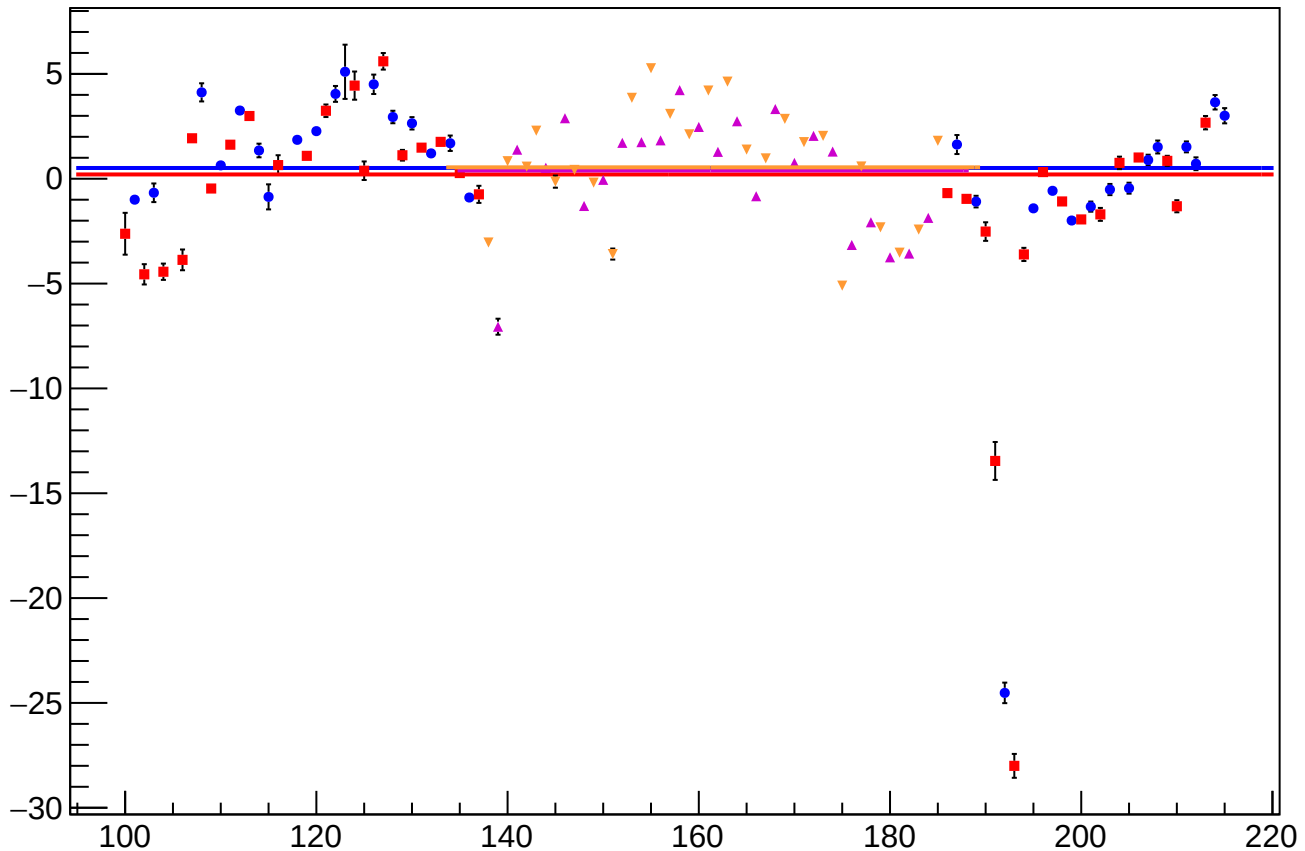
reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.610 $\pm$ 0.048 χ^2 /NDF: 26472.2/14
 Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24
 Right Out: 5.262 $\pm$ 0.049 χ^2 /NDF: 26884.2/14
 Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47
 Right: 5.440 $\pm$ 0.035 χ^2 /NDF: 53381.8/29
 In: -8.349 $\pm$ 0.030 χ^2 /NDF: 205800.5/37
 Out: -9.180 $\pm$ 0.031 χ^2 /NDF: 253650.3/39
 All: -8.756 $\pm$ 0.021 χ^2 /NDF: 459827.5/77

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.513 $\pm$ 0.046 χ^2 /NDF: 3994.3/31

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.205 $\pm$ 0.044 χ^2 /NDF: 4359.3/33

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

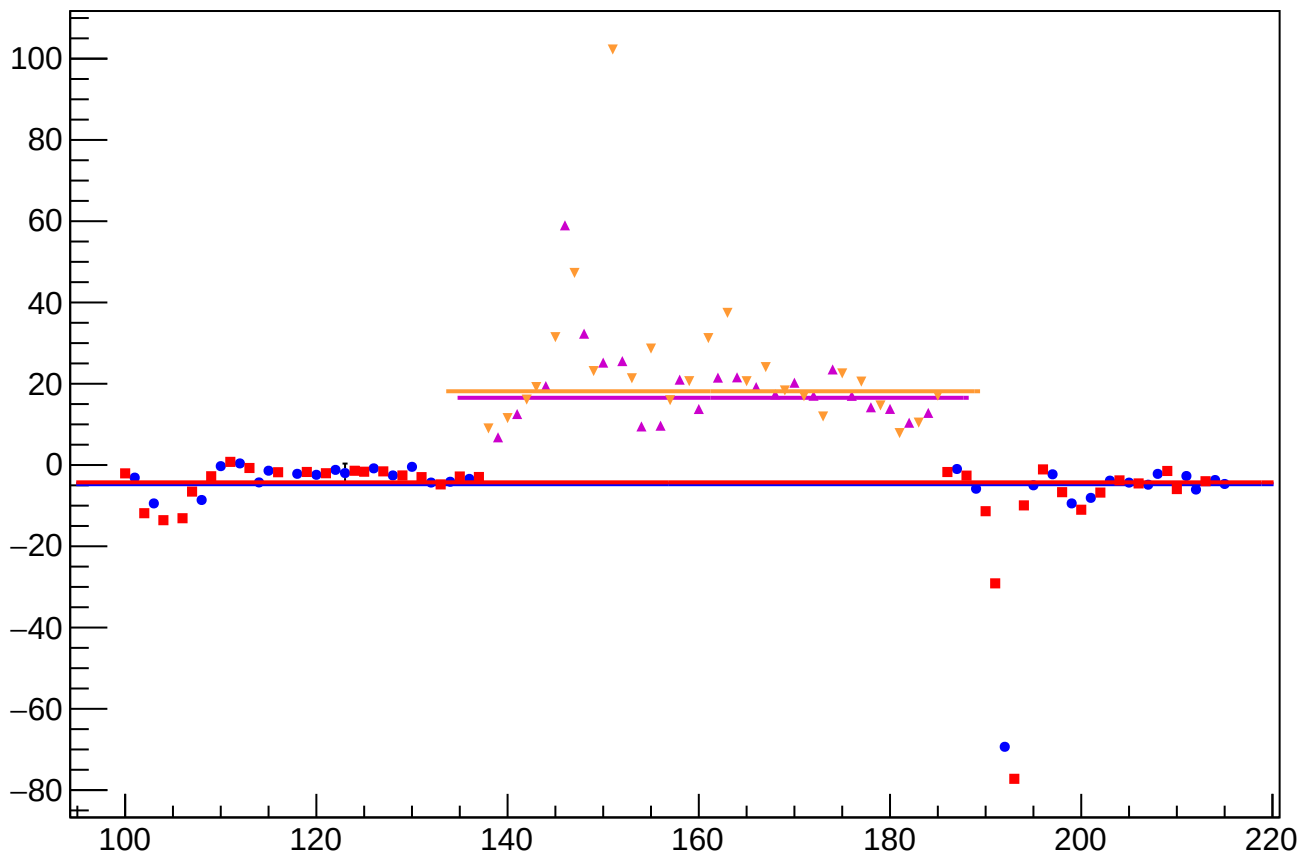
Right: 0.353 $\pm$ 0.032 χ^2 /NDF: 8376.9/65

In: 0.433 $\pm$ 0.026 χ^2 /NDF: 10234.3/54

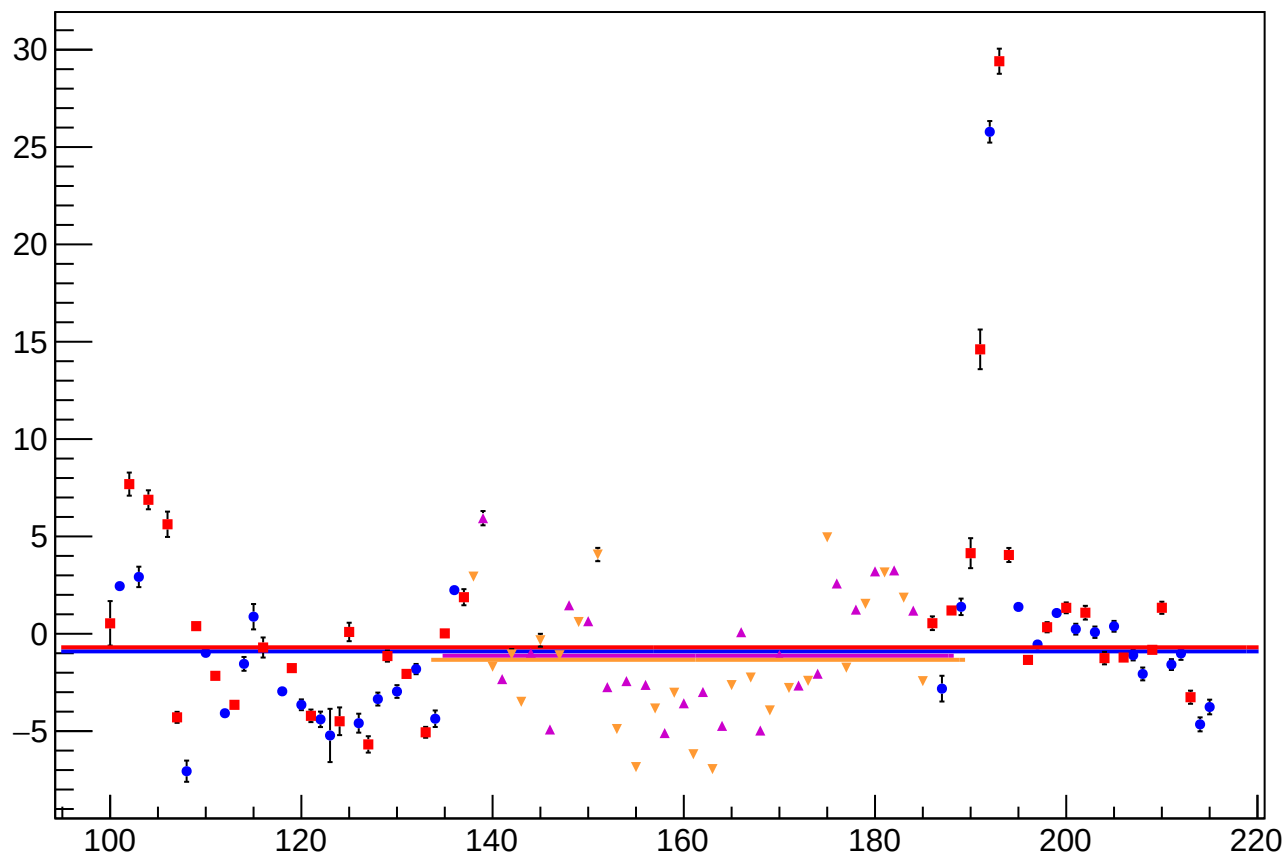
Out: 0.425 $\pm$ 0.026 χ^2 /NDF: 11482.6/58

All: 0.429 $\pm$ 0.018 χ^2 /NDF: 21717.0/113

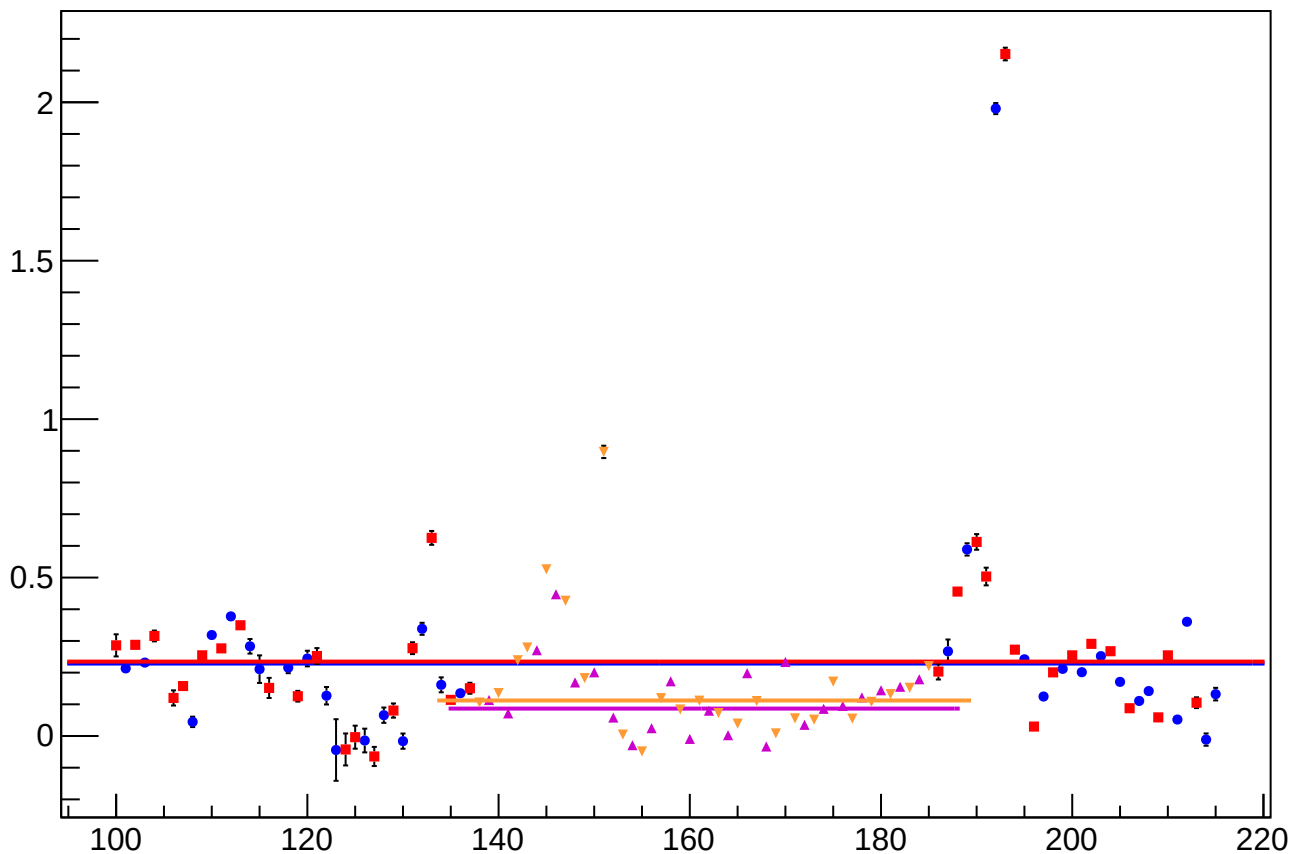
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.229 $\pm$ 0.002 χ^2 /NDF: 11879.0/31

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.235 $\pm$ 0.002 χ^2 /NDF: 12169.4/33

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

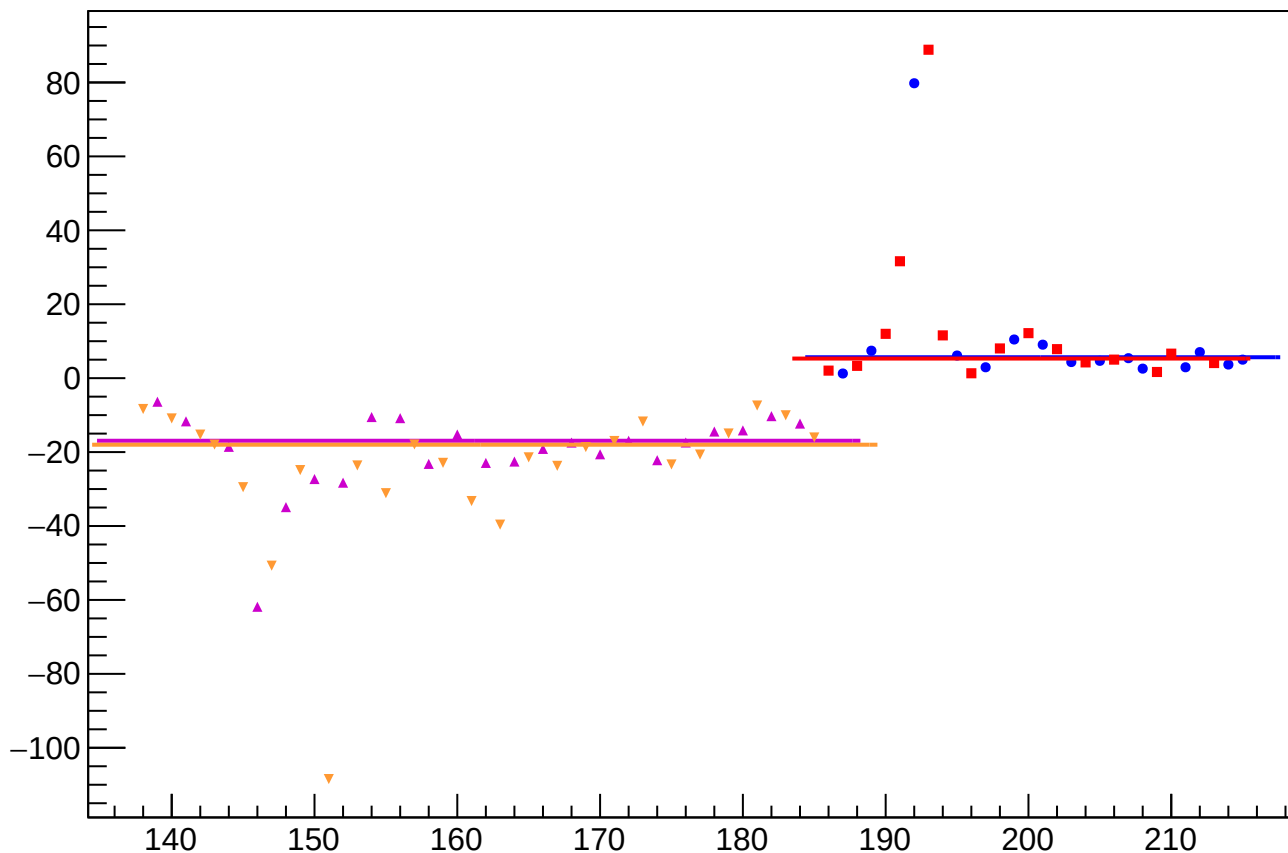
Right: 0.232 $\pm$ 0.002 χ^2 /NDF: 24051.9/65

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18132.1/54

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18572.1/58

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 36879.0/113

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.659 $\pm$ 0.048 χ^2 /NDF: 26686.6/14

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.304 $\pm$ 0.049 χ^2 /NDF: 27239.6/14

Left In: -16.934 $\pm$ 0.038 χ^2 /NDF: 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2 /NDF: 132843.0/47

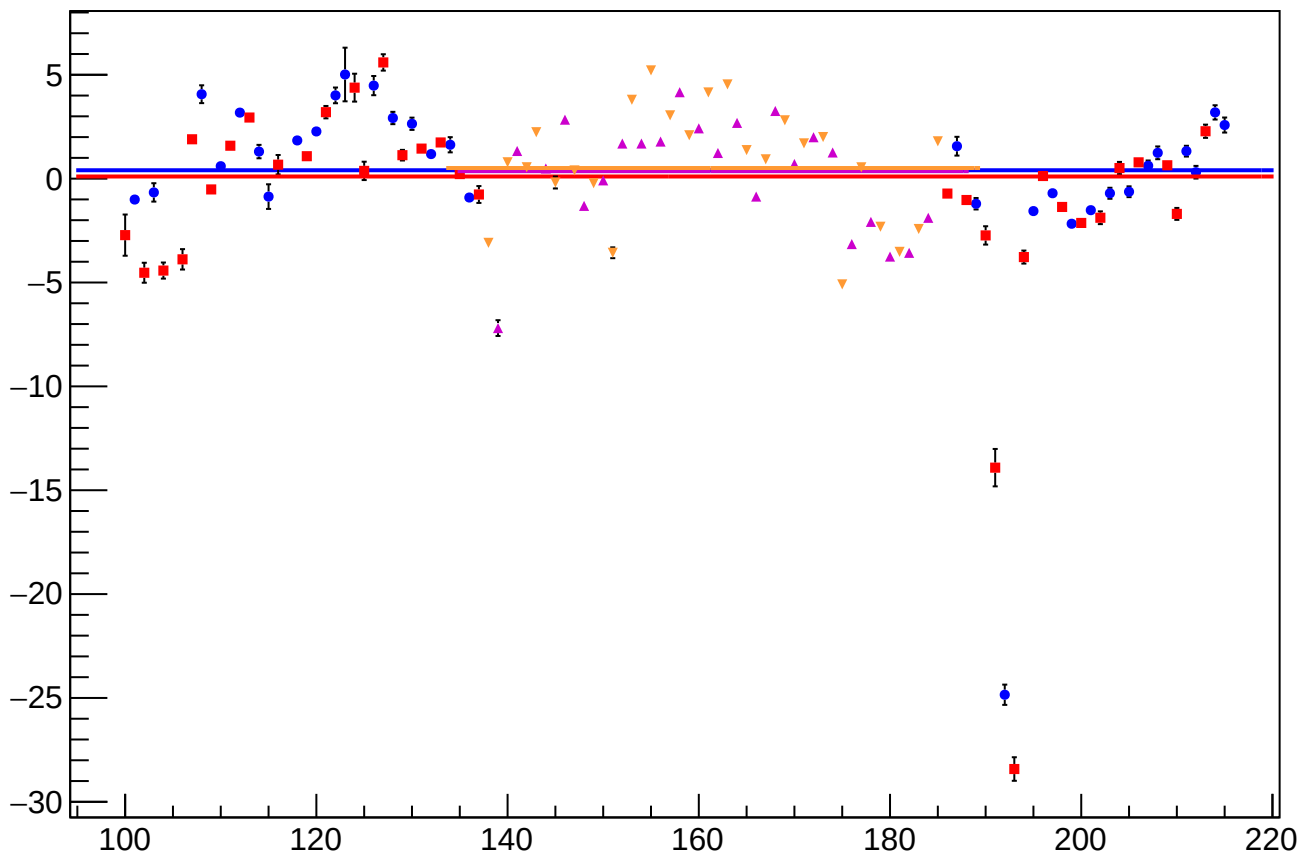
Right: 5.485 $\pm$ 0.034 χ^2 /NDF: 53952.8/29

In: -8.293 $\pm$ 0.030 χ^2 /NDF: 206648.6/37

Out: -9.096 $\pm$ 0.030 χ^2 /NDF: 254713.8/39

All: -8.686 $\pm$ 0.021 χ^2 /NDF: 461718.8/77

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.404 $\pm$ 0.046 χ^2 /NDF: 4090.5/31

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF:7070.4/24

Right Out: 0.104 $\pm$ 0.044 χ^2 /NDF: 4514.8/33

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

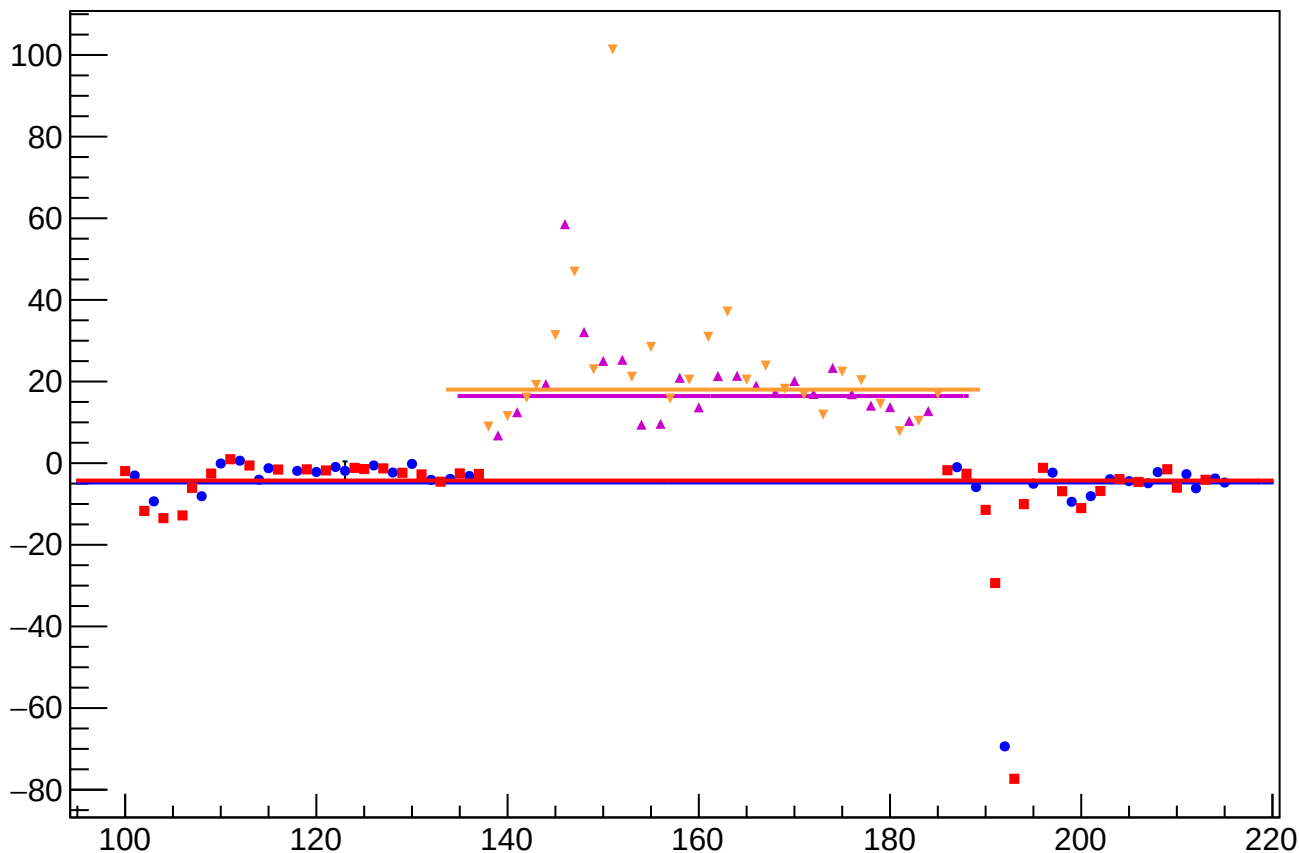
Right: 0.248 $\pm$ 0.032 χ^2 /NDF: 8627.6/65

In: 0.373 $\pm$ 0.025 χ^2 /NDF:10312.2/54

Out: 0.370 $\pm$ 0.026 χ^2 /NDF:11641.2/58

All: 0.371 $\pm$ 0.018 χ^2 /NDF: 21953.4/113

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.723 ± 0.043 $\chi^2/\text{NDF}: 27593.9/31$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.250 ± 0.041 $\chi^2/\text{NDF}: 28699.5/33$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

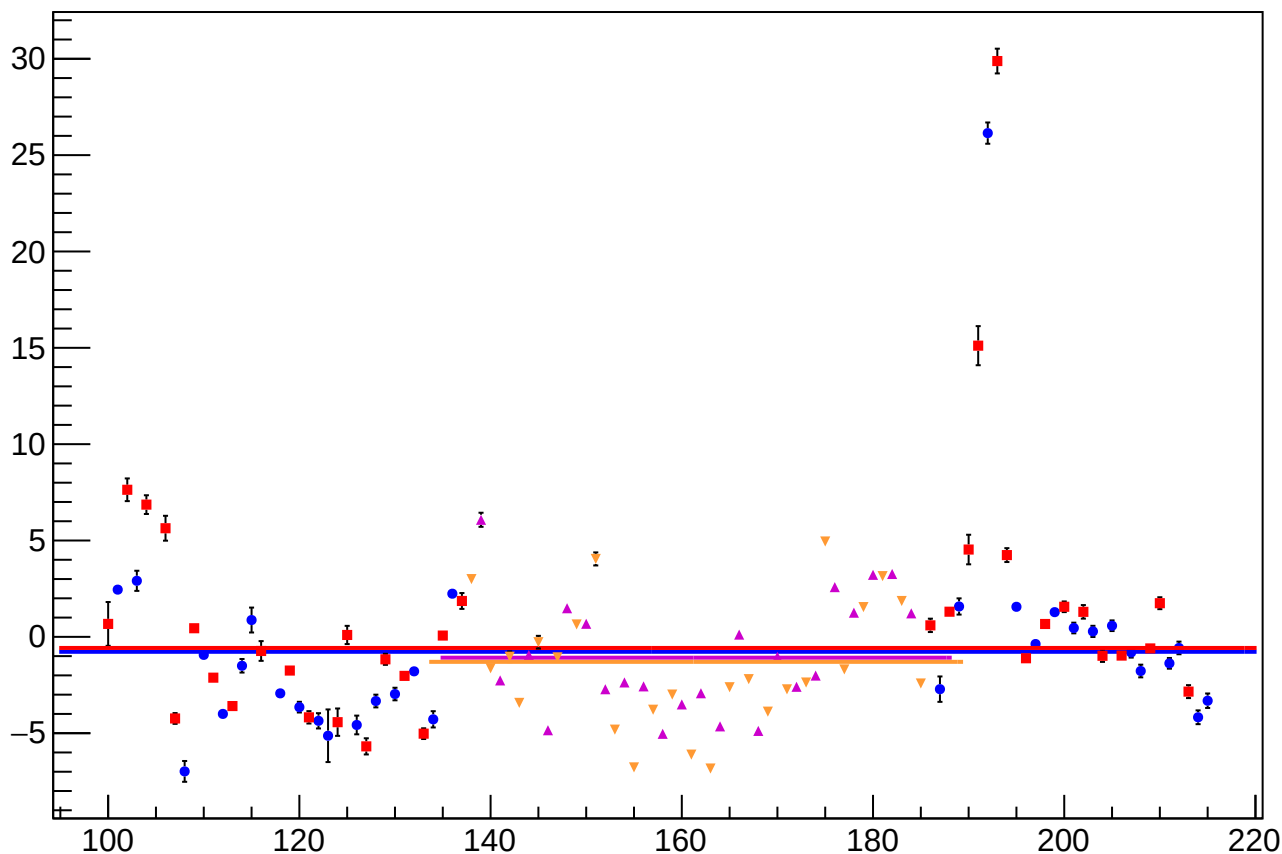
Right: -4.476 ± 0.029 $\chi^2/\text{NDF}: 56358.1/65$

In: 7.183 ± 0.028 $\chi^2/\text{NDF}: 207682.1/54$

Out: 7.399 ± 0.028 $\chi^2/\text{NDF}: 263515.8/58$

All: 7.291 ± 0.020 $\chi^2/\text{NDF}: 471227.5/113$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

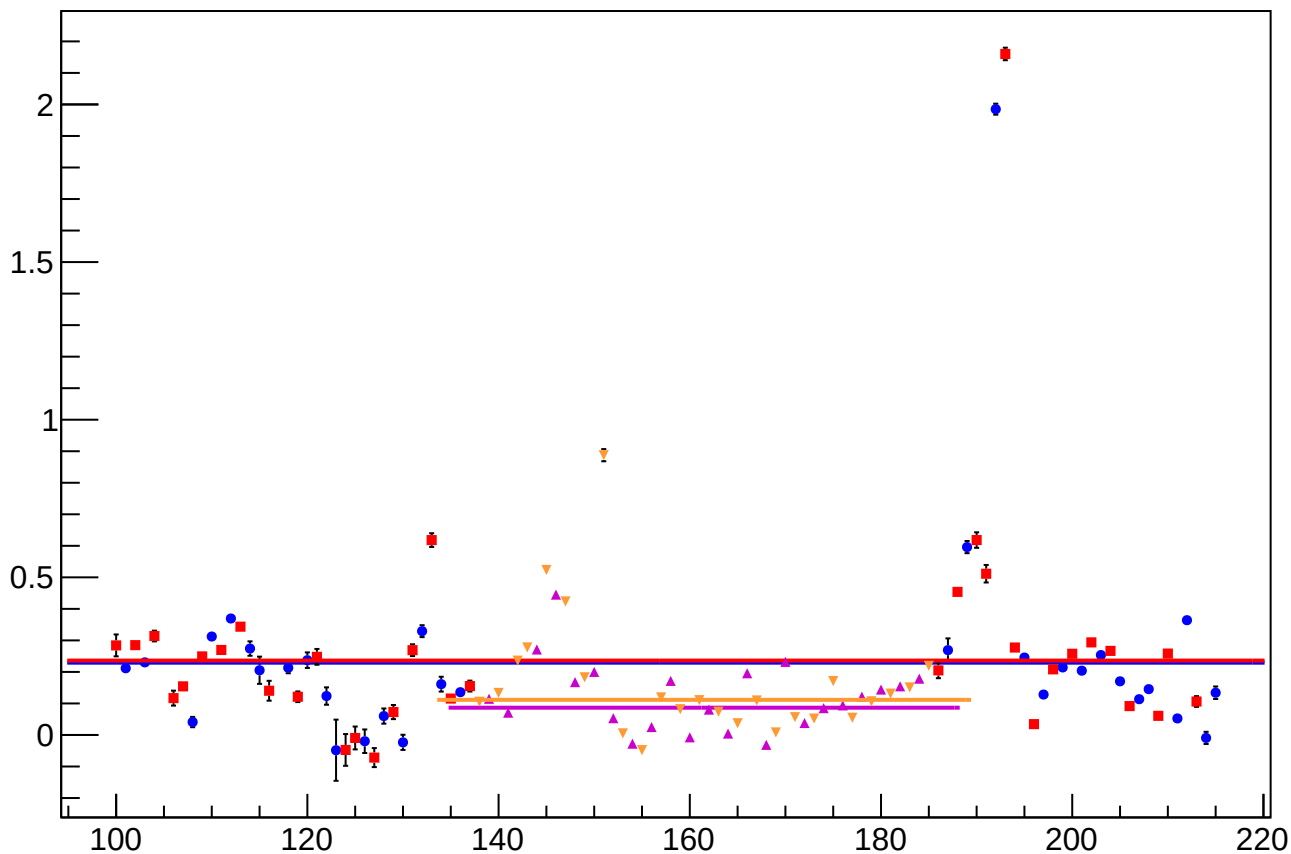


Right In: -0.775 ± 0.053 χ^2/NDF : 4186.2/31
 Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24
 Right Out: -0.576 ± 0.051 χ^2/NDF : 4726.8/33
 Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47
 Right: -0.672 ± 0.037 χ^2/NDF : 8920.4/65
 In: -0.992 ± 0.029 χ^2/NDF : 10934.3/54
 Out: -1.060 ± 0.029 χ^2/NDF : 12786.7/58

All: -1.025 ± 0.020 χ^2/NDF : 23723.7/113

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.229+/-0.002 χ^2/NDF : 12004.2/31

Left Out: 0.111+/-0.002 χ^2/NDF : 4496.0/24

Right Out: 0.236+/-0.002 χ^2/NDF : 12297.4/33

Left In: 0.087+/-0.001 χ^2/NDF : 3625.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8251.9/47

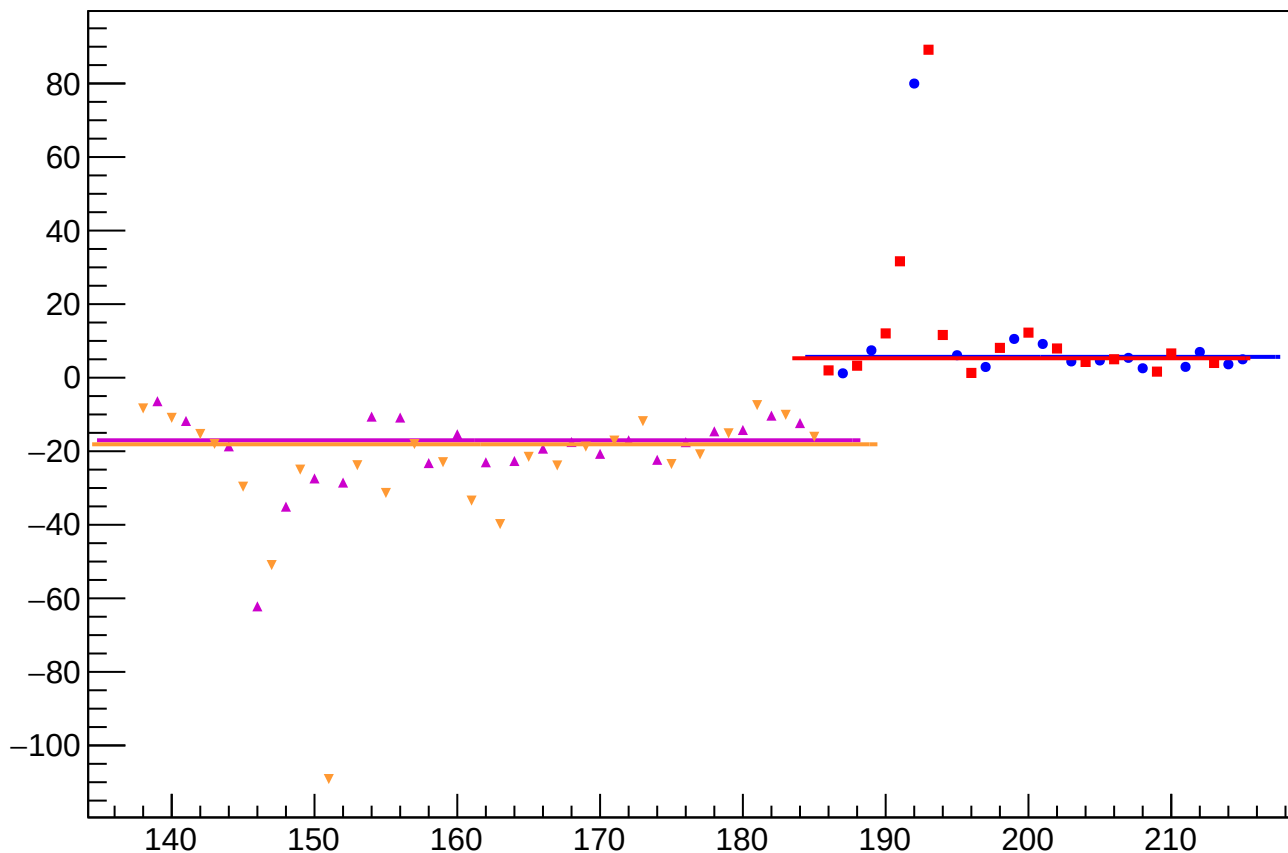
Right: 0.233+/-0.002 χ^2/NDF : 24305.7/65

In: 0.128+/-0.001 χ^2/NDF : 18281.1/54

Out: 0.152+/-0.001 χ^2/NDF : 18771.0/58

All: 0.139+/-0.001 χ^2/NDF : 37224.3/113

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.661 $\pm$ 0.048 χ^2 /NDF: 26681.8/14

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 5.280 $\pm$ 0.049 χ^2 /NDF: 27261.0/14

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

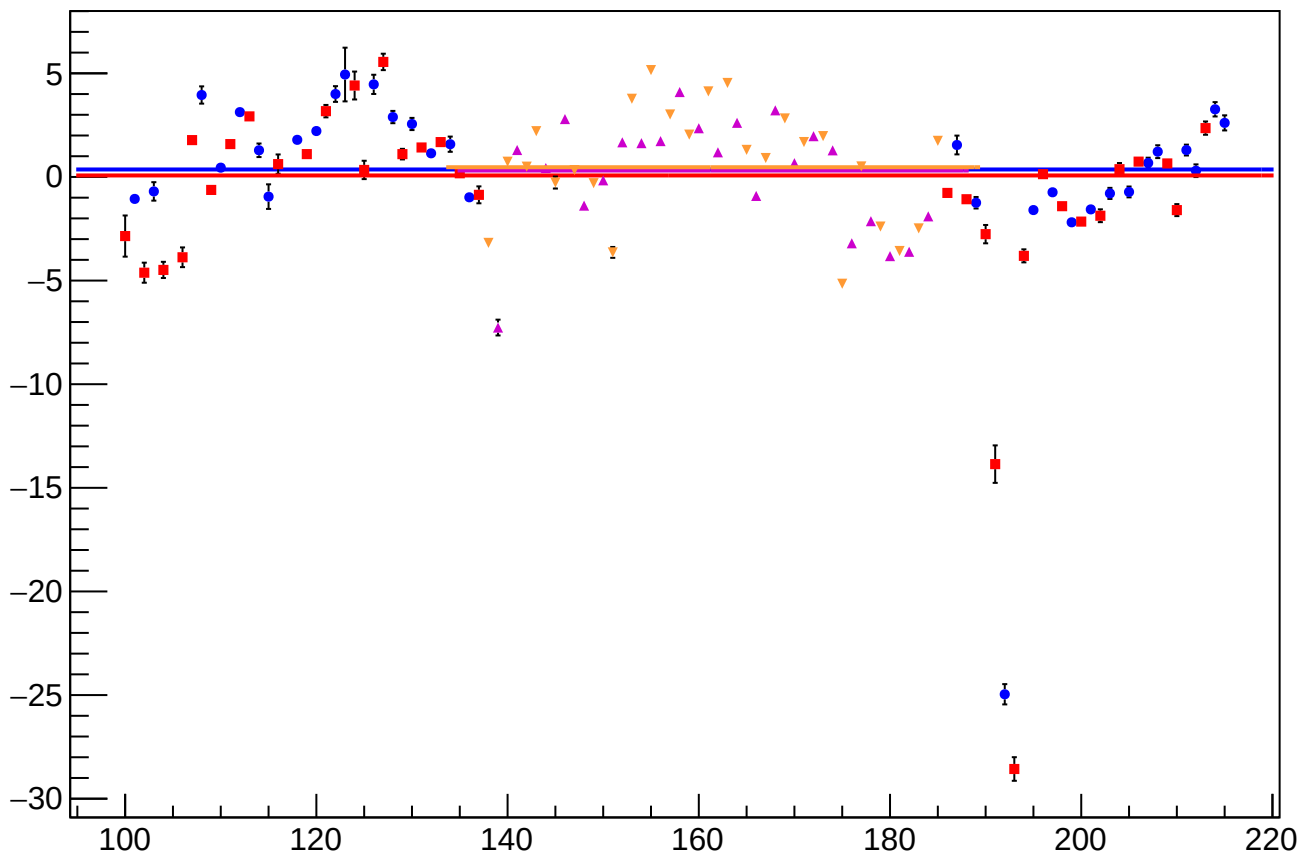
Right: 5.474 $\pm$ 0.035 χ^2 /NDF: 53973.1/29

In: -8.379 $\pm$ 0.030 χ^2 /NDF: 206281.8/37

Out: -9.175 $\pm$ 0.031 χ^2 /NDF: 254623.0/39

All: -8.769 $\pm$ 0.021 χ^2 /NDF: 461251.9/77

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.361 $\pm$ 0.046 χ^2 /NDF: 4085.7/31

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF:7093.0/24

Right Out: 0.072 $\pm$ 0.044 χ^2 /NDF: 4506.2/33

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

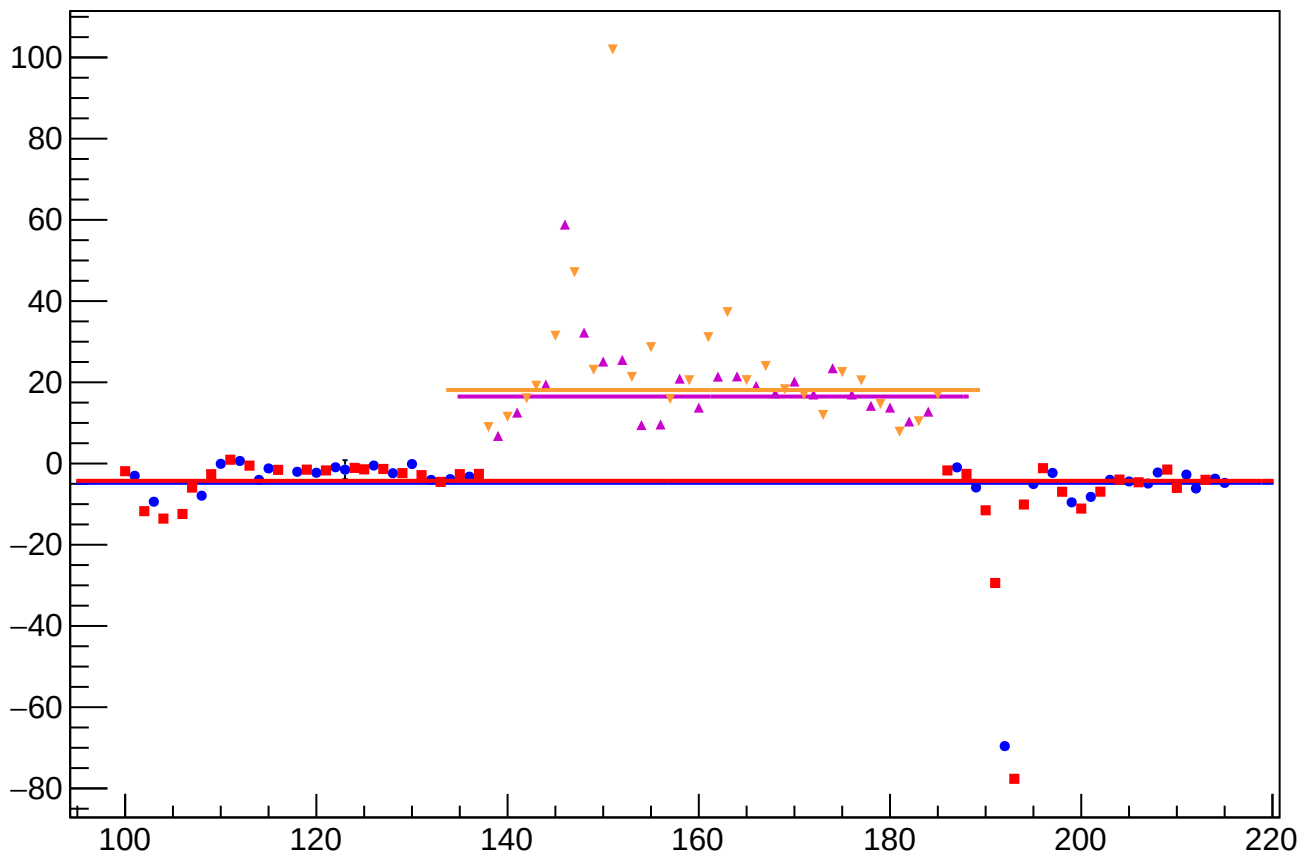
Right: 0.210 $\pm$ 0.032 χ^2 /NDF: 8612.4/65

In: 0.326 $\pm$ 0.026 χ^2 /NDF:10269.6/54

Out: 0.331 $\pm$ 0.026 χ^2 /NDF:11651.9/58

All: 0.328 $\pm$ 0.018 χ^2 /NDF: 21921.5/113

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.753 ± 0.043 $\chi^2/\text{NDF}: 27587.9/31$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -4.258 ± 0.041 $\chi^2/\text{NDF}: 28707.1/33$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

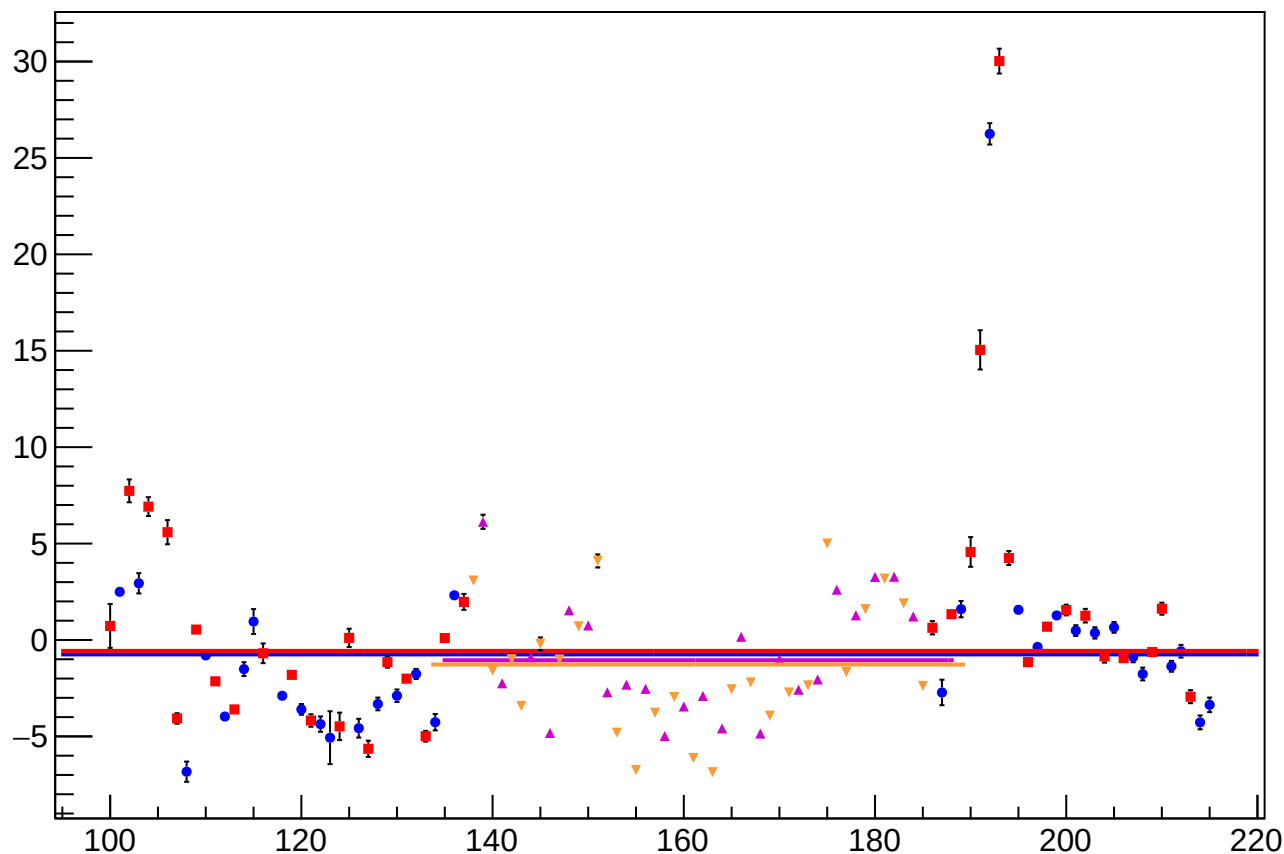
Right: -4.493 ± 0.030 $\chi^2/\text{NDF}: 56364.9/65$

In: 7.228 ± 0.028 $\chi^2/\text{NDF}: 207344.7/54$

Out: 7.432 ± 0.028 $\chi^2/\text{NDF}: 263482.5/58$

All: 7.330 ± 0.020 $\chi^2/\text{NDF}: 470853.2/113$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

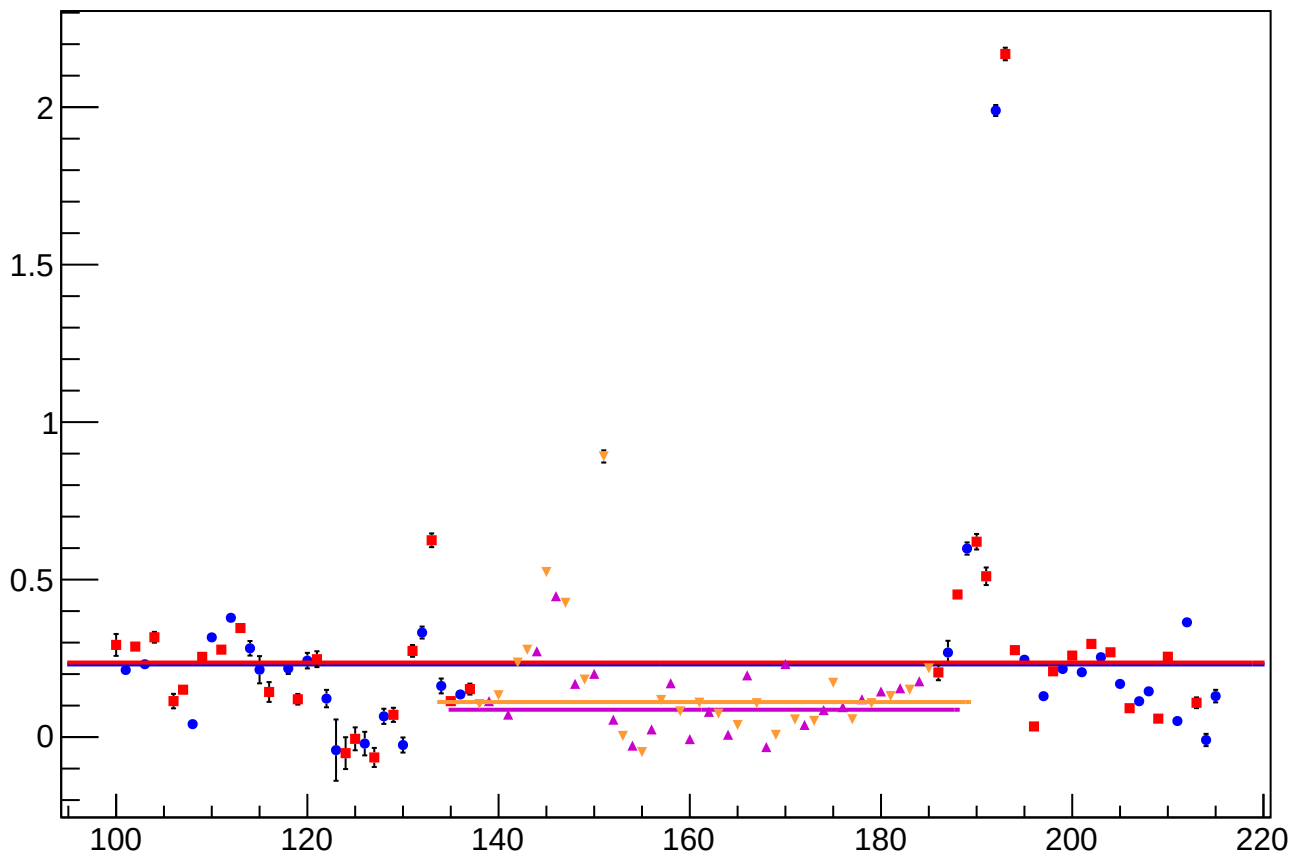


Right In: -0.748 ± 0.053 $\chi^2/\text{NDF}: 4186.5/31$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.565 ± 0.051 $\chi^2/\text{NDF}: 4720.0/33$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.653 ± 0.037 $\chi^2/\text{NDF}: 8912.8/65$
 In: -0.962 ± 0.029 $\chi^2/\text{NDF}: 10883.0/54$
 Out: -1.040 ± 0.029 $\chi^2/\text{NDF}: 12800.5/58$

All: -1.000 ± 0.020 $\chi^2/\text{NDF}: 23687.1/113$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.231+/-0.002 χ^2/NDF : 12001.5/31

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.237+/-0.002 χ^2/NDF : 12313.5/33

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

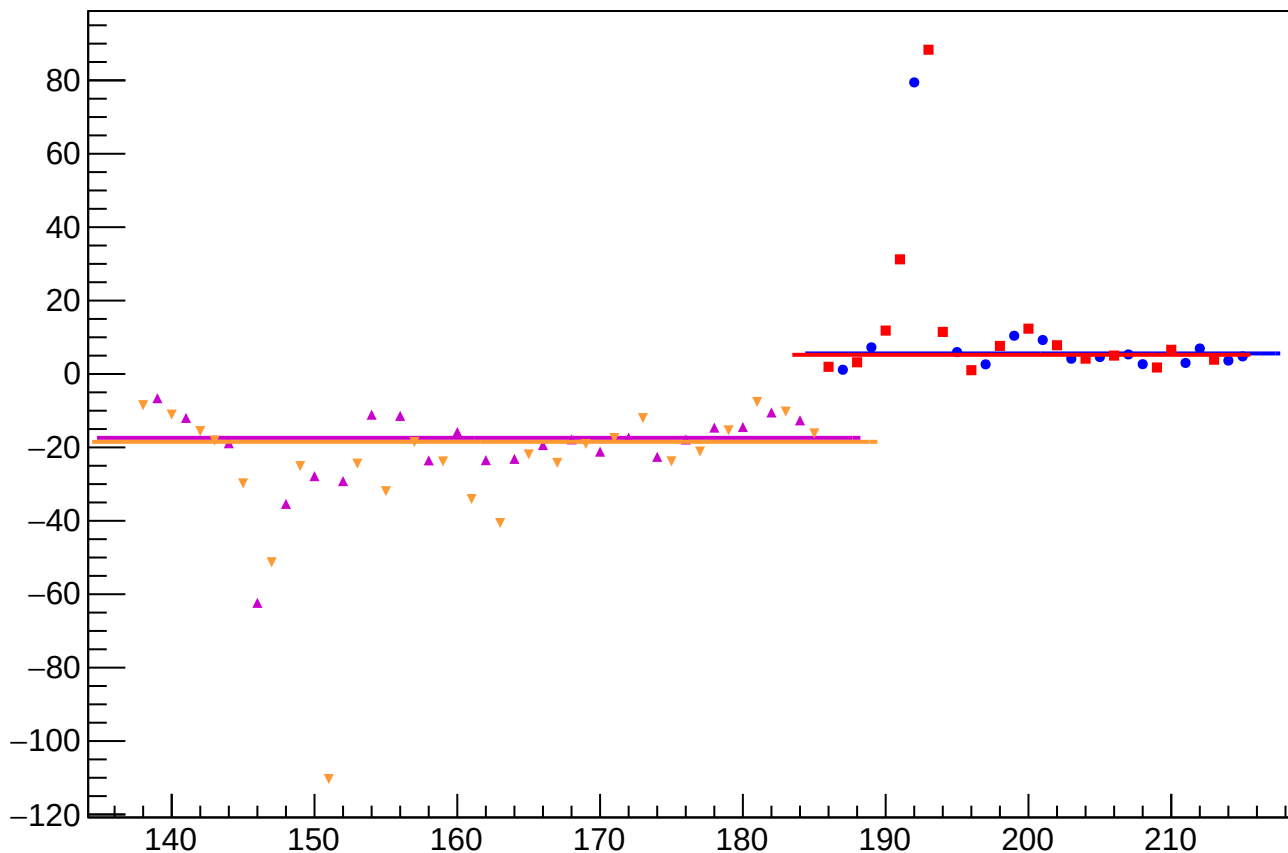
Right: 0.234+/-0.002 χ^2/NDF : 24318.4/65

In: 0.128+/-0.001 χ^2/NDF : 18257.2/54

Out: 0.152+/-0.001 χ^2/NDF : 18778.0/58

All: 0.140+/-0.001 χ^2/NDF : 37201.1/113

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.599 ± 0.049 χ^2/NDF : 26203.2/14

Left Out: -18.479 ± 0.040 χ^2/NDF : 87883.4/24

Right Out: 5.231 ± 0.050 χ^2/NDF : 26680.7/14

Left In: -17.393 ± 0.039 χ^2/NDF : 43178.9/22

Left: -17.926 ± 0.028 χ^2/NDF : 131443.9/47

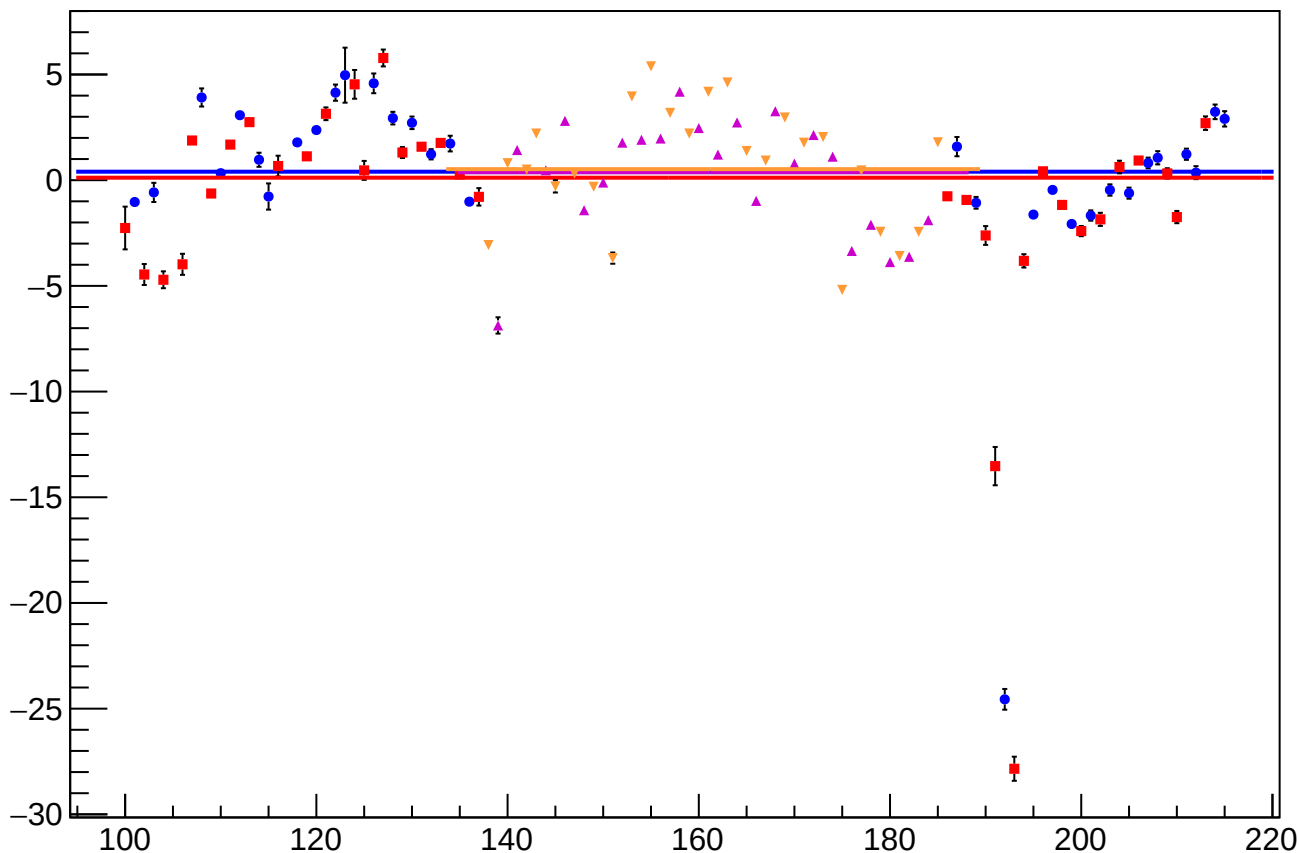
Right: 5.418 ± 0.035 χ^2/NDF : 52912.0/29

In: -8.428 ± 0.030 χ^2/NDF : 205178.7/37

Out: -9.212 ± 0.031 χ^2/NDF : 253969.2/39

All: -8.813 ± 0.022 χ^2/NDF : 459473.6/77

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.402 $\pm$ 0.047 χ^2 /NDF: 3954.1/31

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.118 $\pm$ 0.045 χ^2 /NDF: 4366.4/33

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

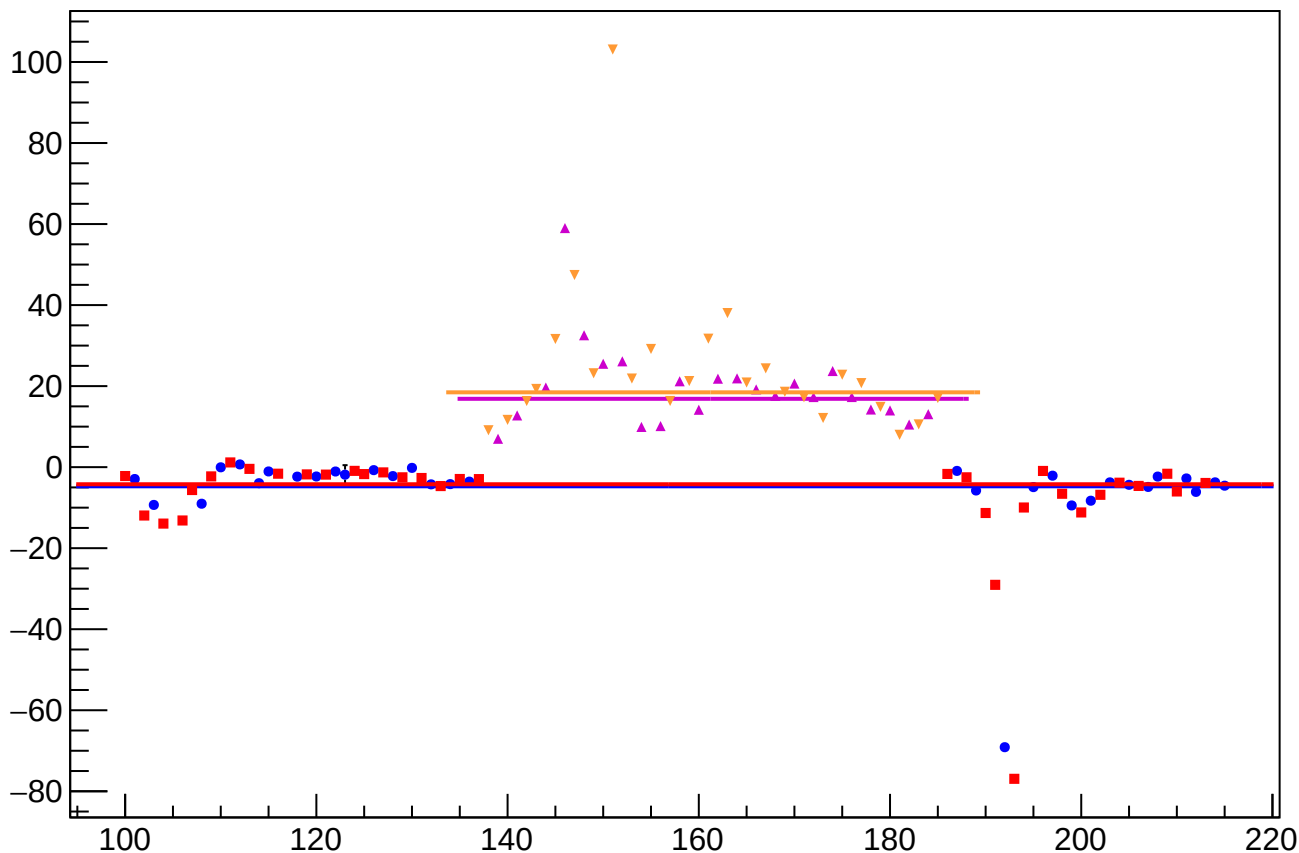
Right: 0.254 $\pm$ 0.032 χ^2 /NDF: 8339.7/65

In: 0.381 $\pm$ 0.026 χ^2 /NDF: 10171.8/54

Out: 0.380 $\pm$ 0.027 χ^2 /NDF: 11474.2/58

All: 0.380 $\pm$ 0.019 χ^2 /NDF: 21645.9/113

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.726 ± 0.043 $\chi^2/\text{NDF}: 27076.0/31$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.221 ± 0.041 $\chi^2/\text{NDF}: 28151.9/33$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

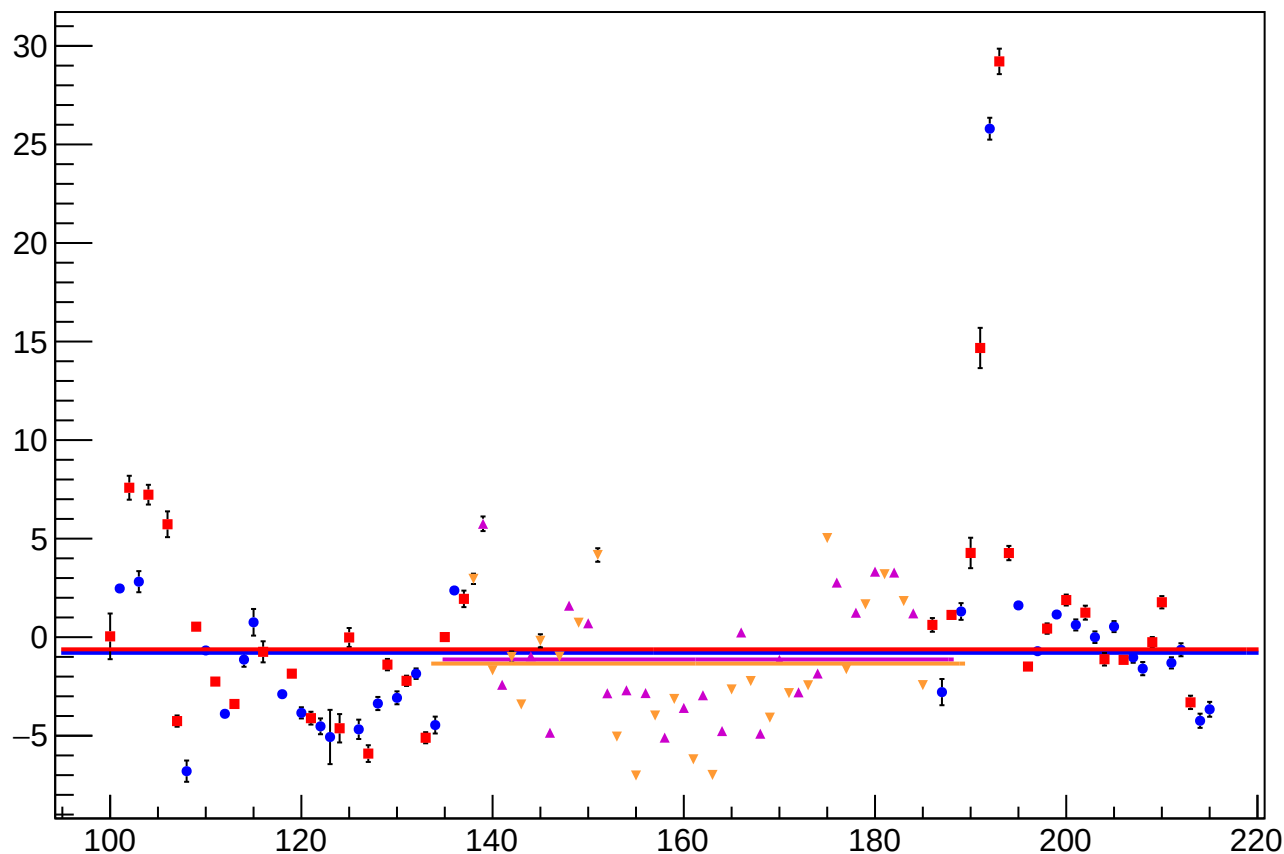
Right: -4.462 ± 0.030 $\chi^2/\text{NDF}: 55299.9/65$

In: 7.270 ± 0.029 $\chi^2/\text{NDF}: 206179.9/54$

Out: 7.463 ± 0.029 $\chi^2/\text{NDF}: 262326.9/58$

All: 7.367 ± 0.020 $\chi^2/\text{NDF}: 468529.3/113$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.793 ± 0.054 $\chi^2/\text{NDF}: 4071.4/31$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.617 ± 0.052 $\chi^2/\text{NDF}: 4592.2/33$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

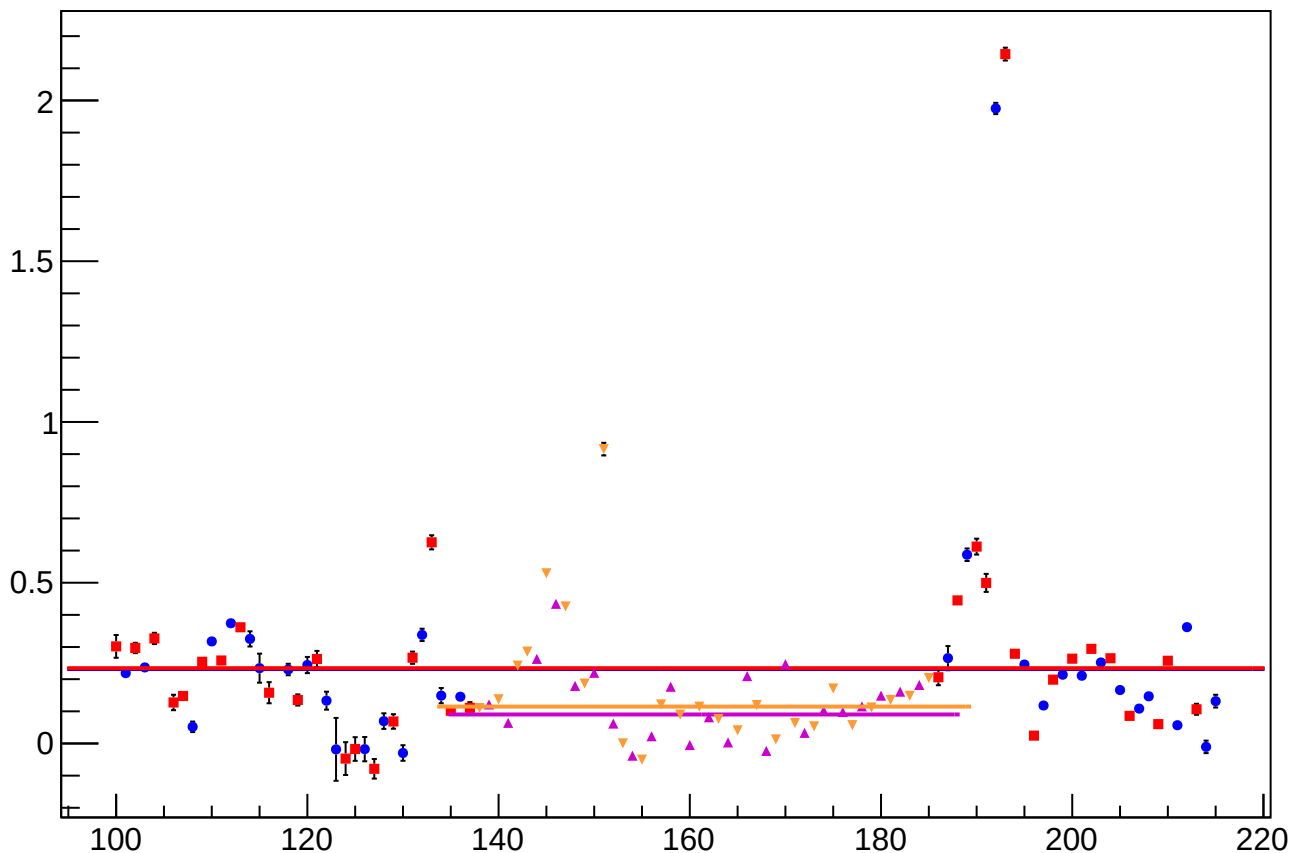
Right: -0.702 ± 0.037 $\chi^2/\text{NDF}: 8669.2/65$

In: -1.031 ± 0.029 $\chi^2/\text{NDF}: 10808.0/54$

Out: -1.099 ± 0.030 $\chi^2/\text{NDF}: 12629.6/58$

All: -1.064 ± 0.021 $\chi^2/\text{NDF}: 23440.3/113$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.231+/-0.002 χ^2/NDF : 11742.0/31

Left Out: 0.115+/-0.002 χ^2/NDF : 4431.9/24

Right Out: 0.234+/-0.002 χ^2/NDF : 12160.5/33

Left In: 0.090+/-0.002 χ^2/NDF : 3676.5/22

Left: 0.102+/-0.001 χ^2/NDF : 8228.2/47

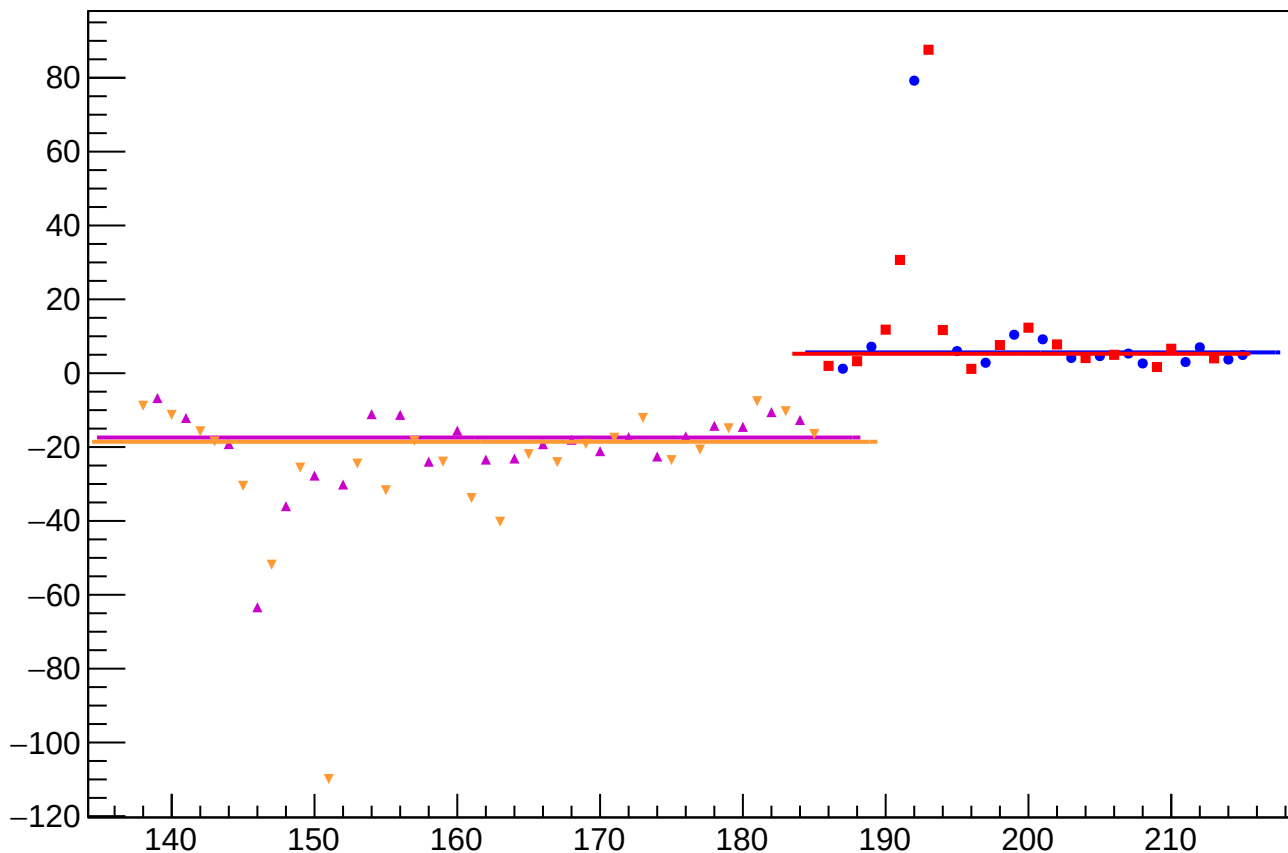
Right: 0.233+/-0.002 χ^2/NDF : 23903.1/65

In: 0.132+/-0.001 χ^2/NDF : 17912.8/54

Out: 0.154+/-0.001 χ^2/NDF : 18340.6/58

All: 0.143+/-0.001 χ^2/NDF : 36394.4/113

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.633 ± 0.049 χ^2/NDF : 25705.0/14

Left Out: -18.566 ± 0.040 χ^2/NDF : 86389.6/24

Right Out: 5.266 ± 0.050 χ^2/NDF : 26047.8/14

Left In: -17.414 ± 0.039 χ^2/NDF : 43504.1/22

Left: -17.979 ± 0.028 χ^2/NDF : 130314.7/47

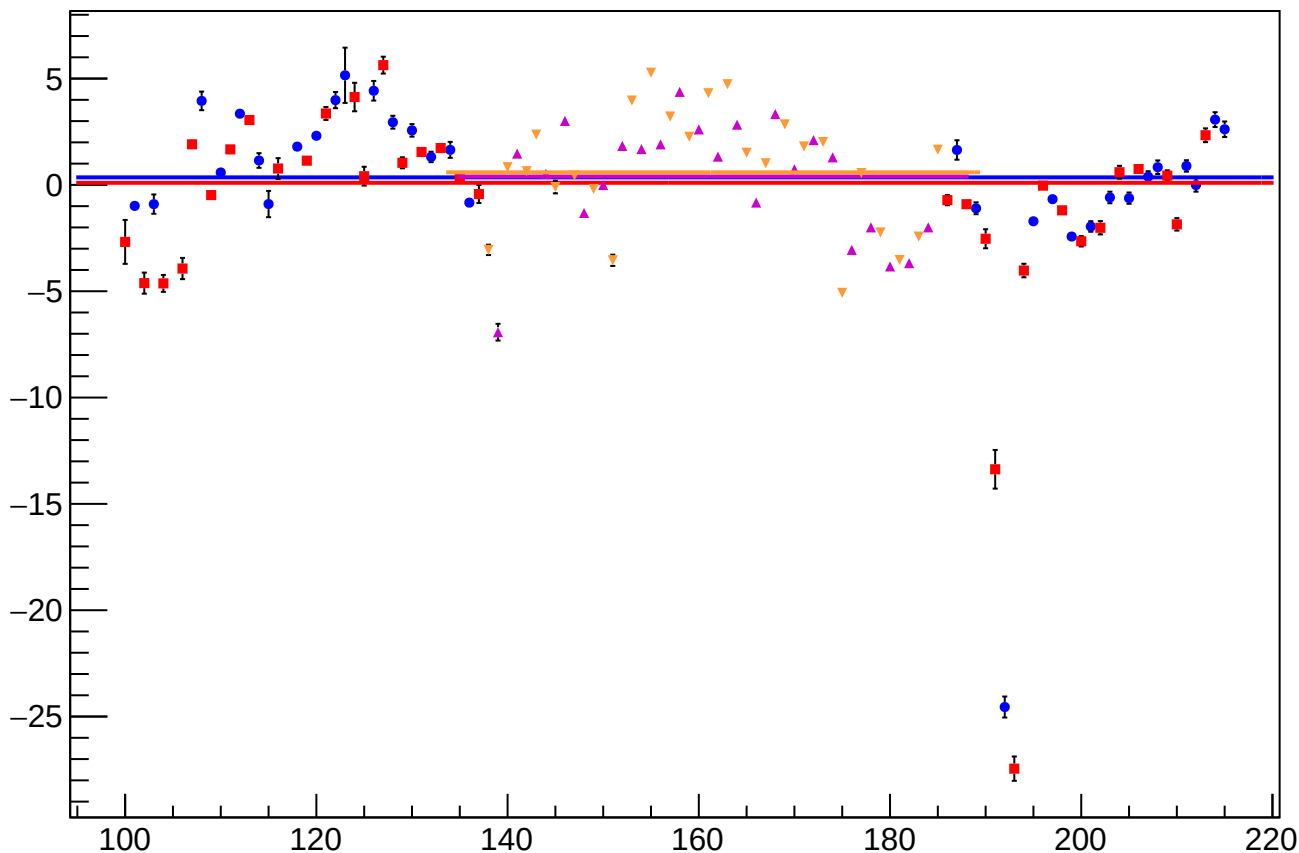
Right: 5.453 ± 0.035 χ^2/NDF : 51780.0/29

In: -8.457 ± 0.031 χ^2/NDF : 202857.9/37

Out: -9.282 ± 0.031 χ^2/NDF : 250055.3/39

All: -8.861 ± 0.022 χ^2/NDF : 453266.8/77

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.354 ± 0.047 χ^2/NDF : 3969.6/31

Left Out: 0.591 ± 0.033 χ^2/NDF : 6796.5/24

Right Out: 0.100 ± 0.045 χ^2/NDF : 4306.3/33

Left In: 0.394 ± 0.032 χ^2/NDF : 6059.8/22

Left: 0.488 ± 0.023 χ^2/NDF : 12874.6/47

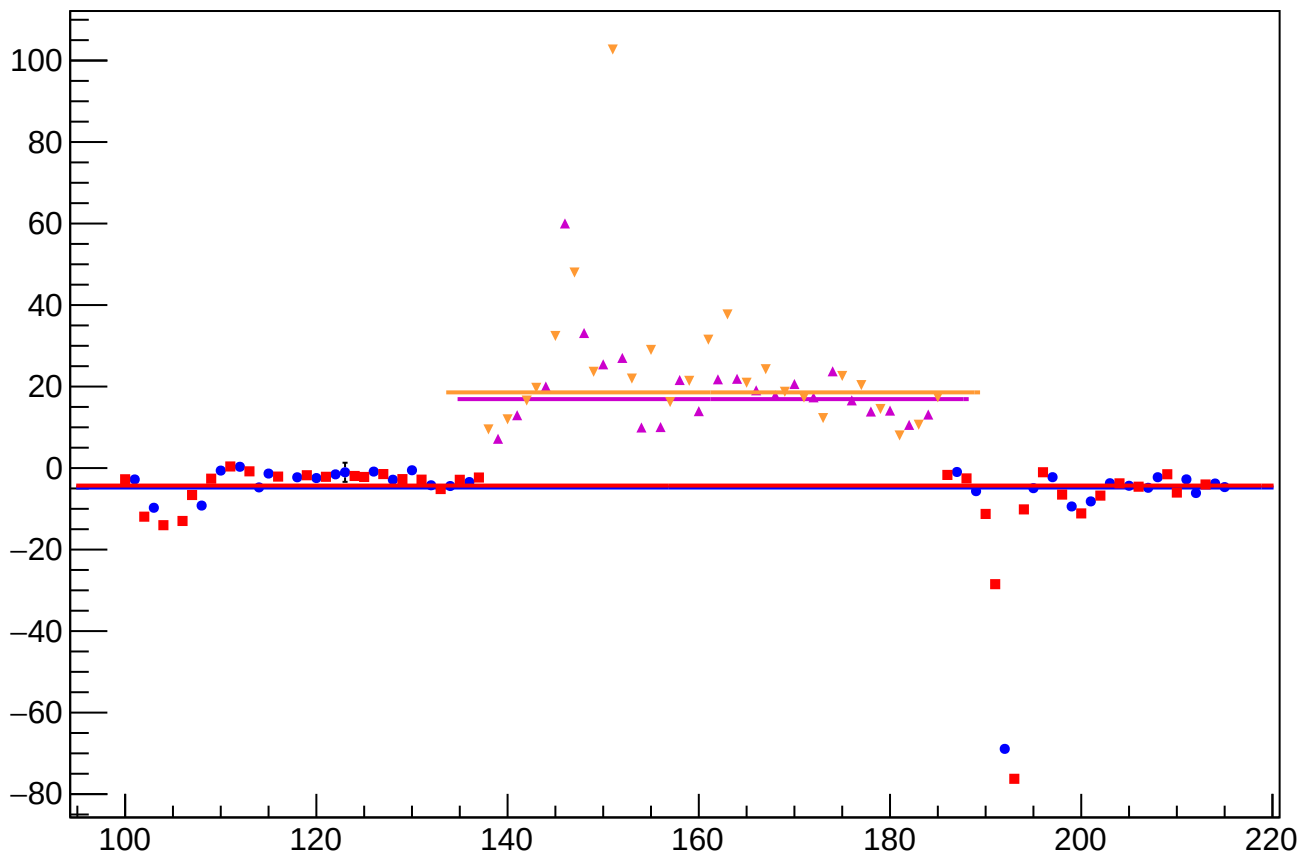
Right: 0.222 ± 0.033 χ^2/NDF : 8291.0/65

In: 0.382 ± 0.026 χ^2/NDF : 10029.9/54

Out: 0.419 ± 0.027 χ^2/NDF : 11179.0/58

All: 0.400 ± 0.019 χ^2/NDF : 21209.9/113

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.770 ± 0.044 $\chi^2/\text{NDF}: 26412.7/31$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.290 ± 0.042 $\chi^2/\text{NDF}: 27292.3/33$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

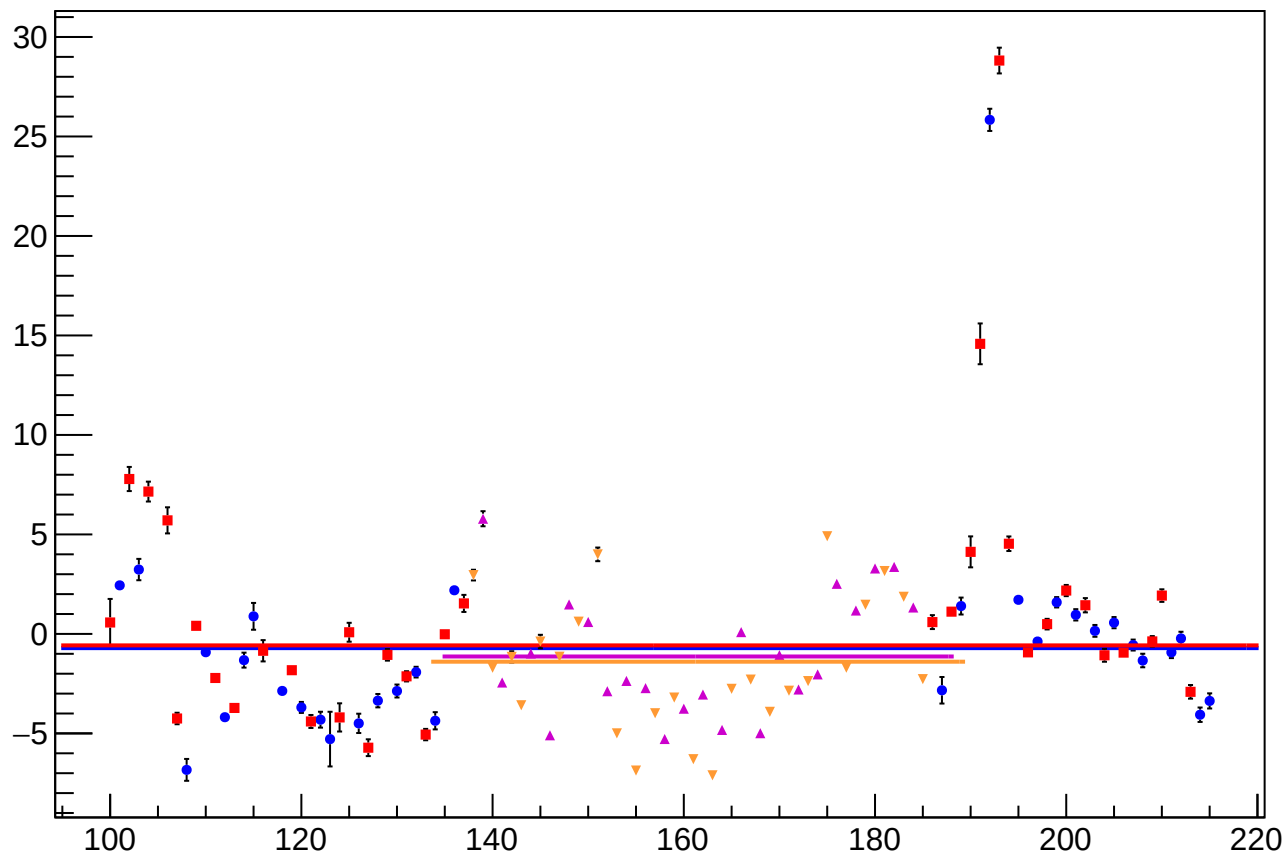
Right: -4.519 ± 0.030 $\chi^2/\text{NDF}: 53768.1/65$

In: 7.314 ± 0.029 $\chi^2/\text{NDF}: 204180.7/54$

Out: 7.538 ± 0.029 $\chi^2/\text{NDF}: 258971.7/58$

All: 7.426 ± 0.021 $\chi^2/\text{NDF}: 463182.2/113$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

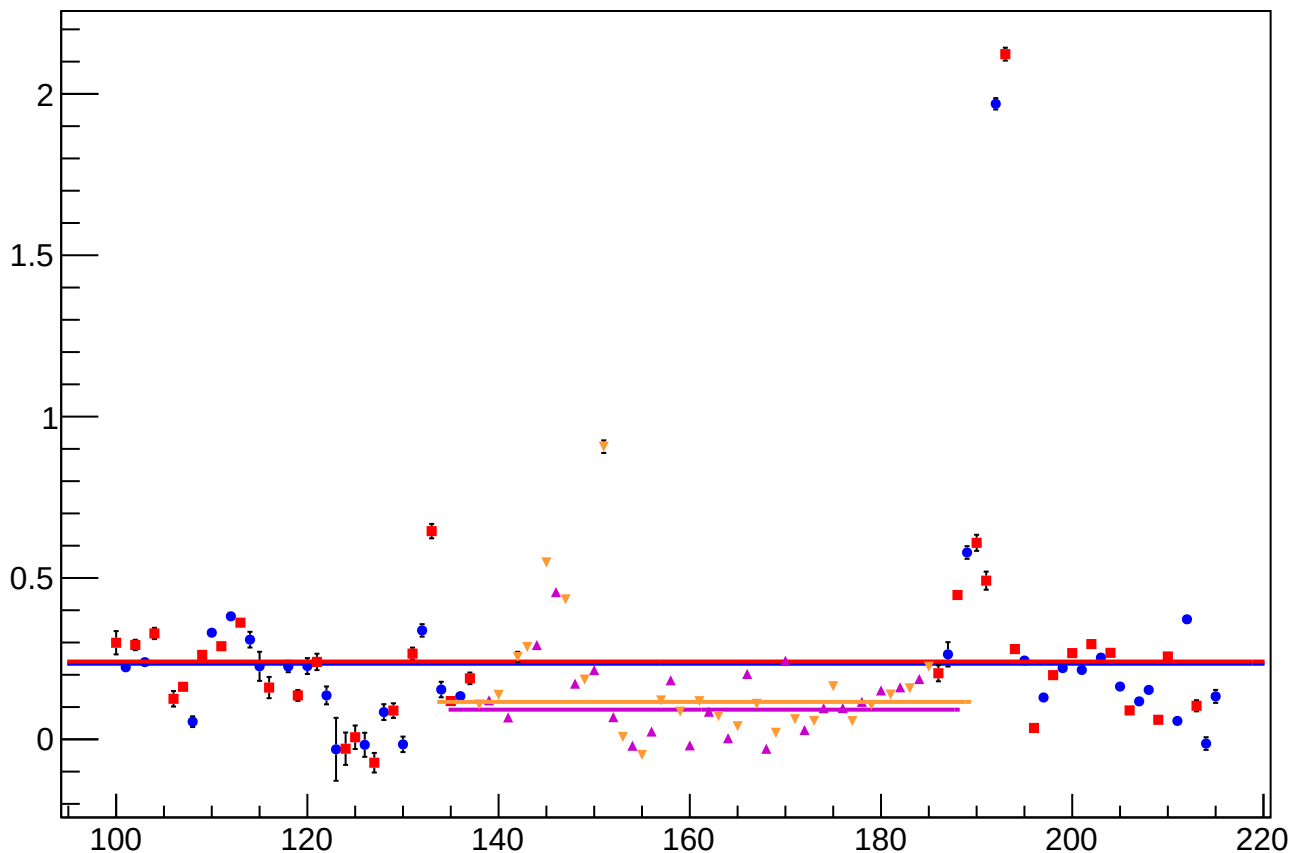


Right In: -0.714 ± 0.054 $\chi^2/\text{NDF}: 4046.1/31$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.576 ± 0.053 $\chi^2/\text{NDF}: 4517.5/33$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.643 ± 0.038 $\chi^2/\text{NDF}: 8566.9/65$
 In: -1.010 ± 0.030 $\chi^2/\text{NDF}: 10686.1/54$
 Out: -1.125 ± 0.030 $\chi^2/\text{NDF}: 12332.1/58$

All: -1.066 ± 0.021 $\chi^2/\text{NDF}: 23025.7/113$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11487.5/31

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.241 $\pm$ 0.002 χ^2 /NDF: 11655.0/33

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

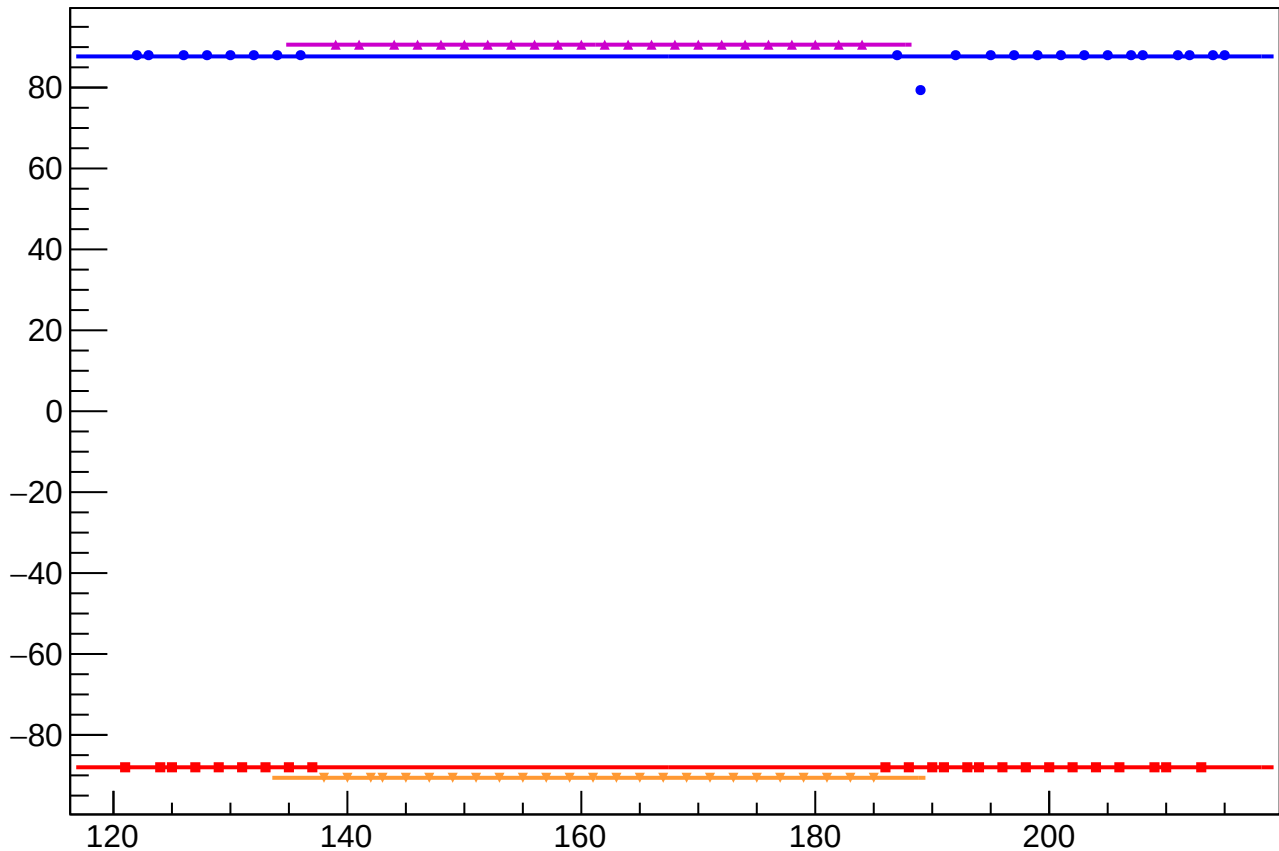
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23146.6/65

In: 0.134 $\pm$ 0.001 χ^2 /NDF:17592.8/54

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17989.8/58

All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35731.8/113

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.695+/-0.000

χ^2/NDF : 3661599069917252979823036636069888.0/22

Left Out: -90.599+/-0.000

χ^2/NDF : 6053403.0/24

Right Out: -88.001+/-0.000

χ^2/NDF : 944310.7/23

Left In: 90.599+/-0.000

χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000

χ^2/NDF : 30521213250005045

Right: 2.005+/-0.000

χ^2/NDF : 21668306266502195

In: 89.313+/-0.000

χ^2/NDF : 104255118594206780

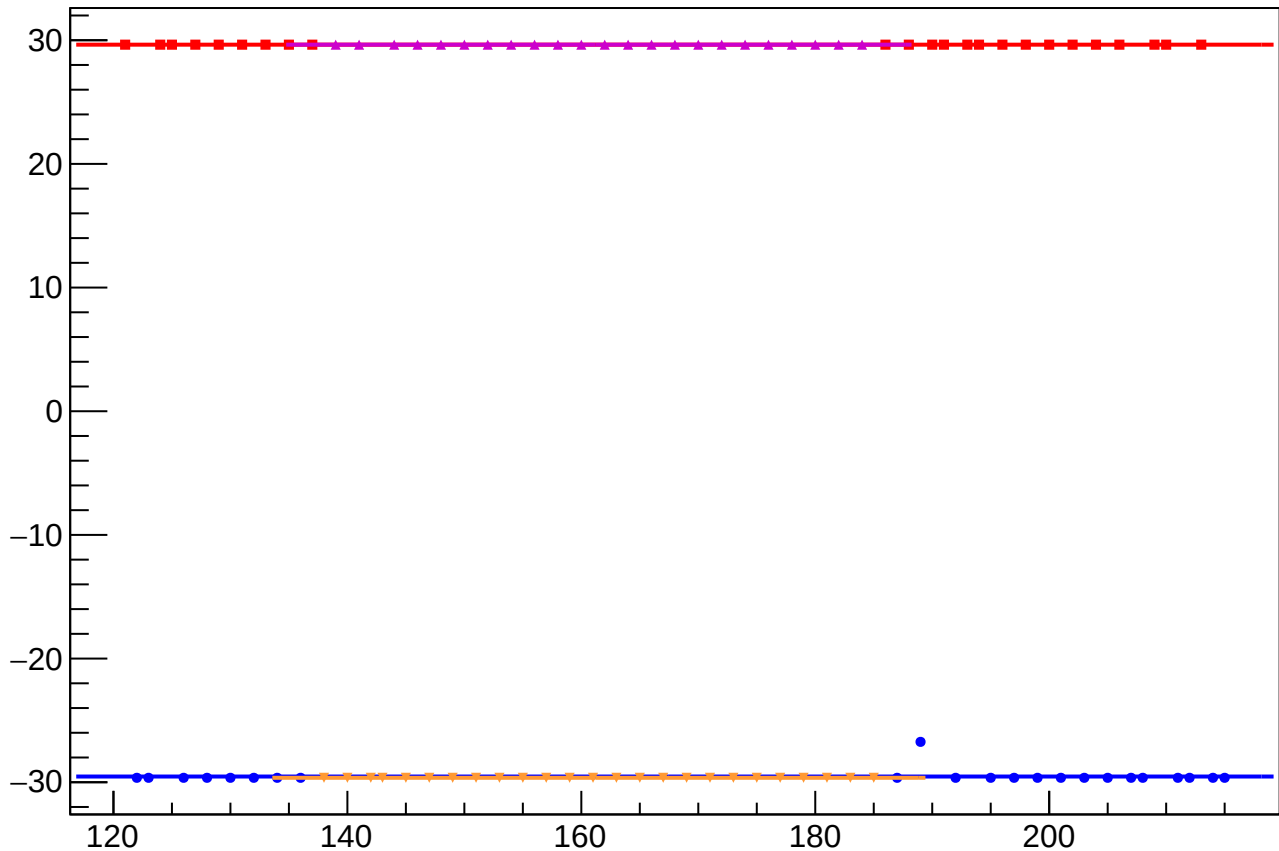
Out: -89.514+/-0.000

χ^2/NDF : 5387122730449320

All: -0.511+/-0.000

χ^2/NDF : 5222072641433

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.538+/-0.000

Left Out: -29.641+/-0.000

Right Out: 29.641+/-0.000

Left In: 29.641+/-0.000

χ^2/NDF : 415408623588403353104421952159744.0/22

χ^2/NDF : 654199.2/24

χ^2/NDF : 1572042.0/23

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

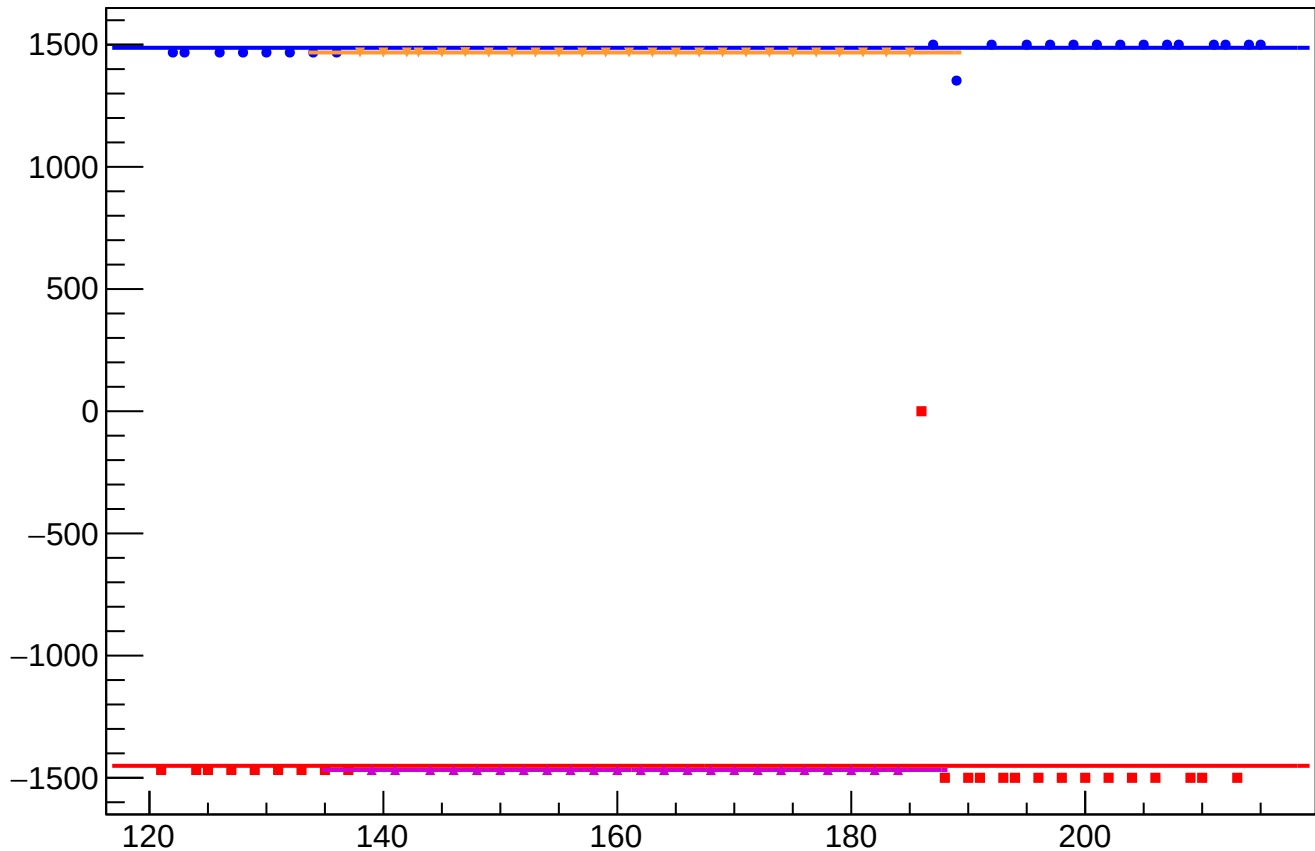
Right: -0.675+/-0.000 χ^2/NDF : 2458270583366555

In: 3.438+/-0.000 χ^2/NDF : 2808579945755485668

Out: -4.880+/-0.000 χ^2/NDF : 28036066743177126

All: -0.740+/-0.000 χ^2/NDF : 5725140733858

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.246+/-0.000

χ^2/NDF : 1216424397693142198653642175466700800.0/22

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1450.986+/-0.000

χ^2/NDF : 82532678826421470698971593650609324032.0/23

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322

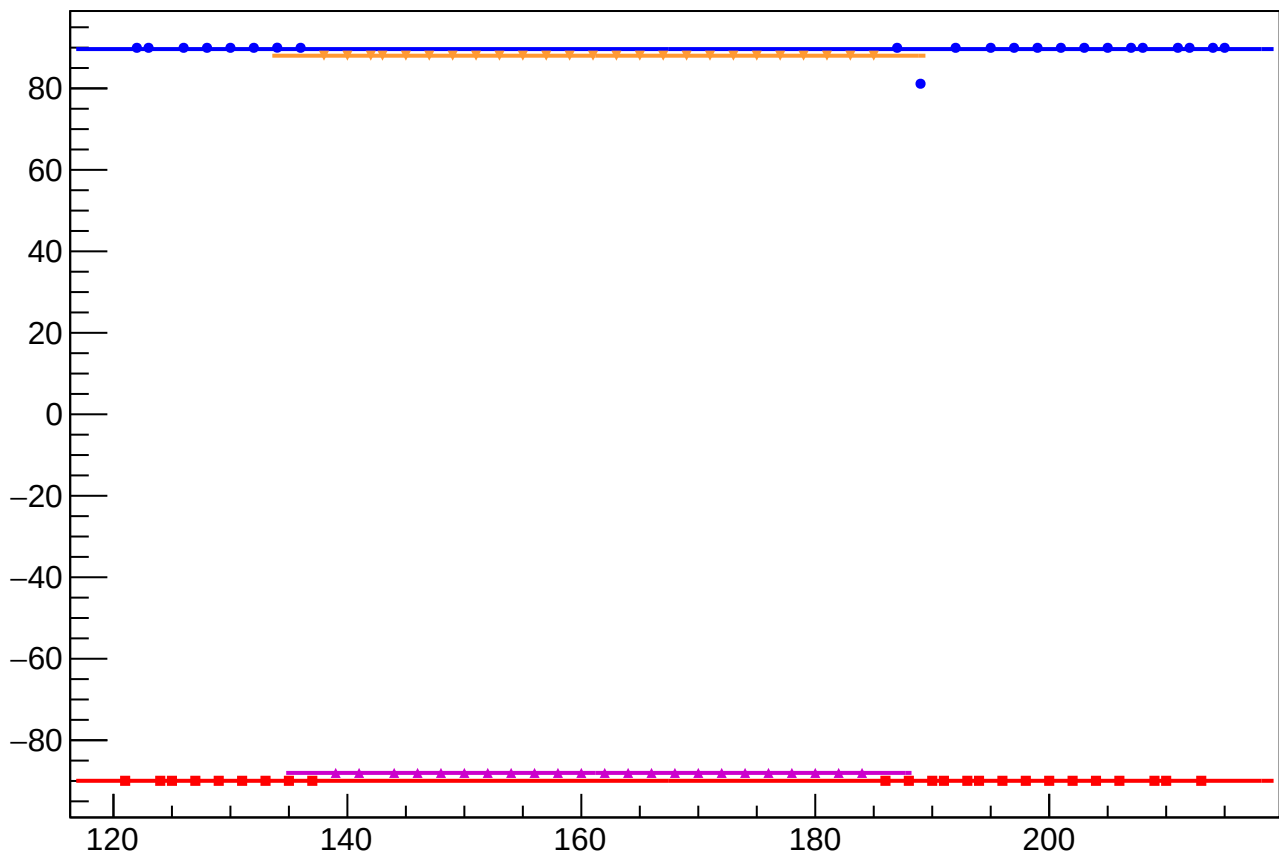
Right: 54.217+/-0.000 χ^2/NDF : 6142757789890850

In: -159.505+/-0.000 χ^2/NDF : 7004168650446027

Out: 248.817+/-0.000 χ^2/NDF : 6880174403346002

All: 45.594+/-0.000 χ^2/NDF : 1415651892389

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.647+/-0.000

χ^2/NDF : 3826858604425102603679380795293696.0/22

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: 2.050+/-0.000 χ^2/NDF : 22643686135723175

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 4131864.1/23

In: -9.355+/-0.000 χ^2/NDF : 253150920218172098

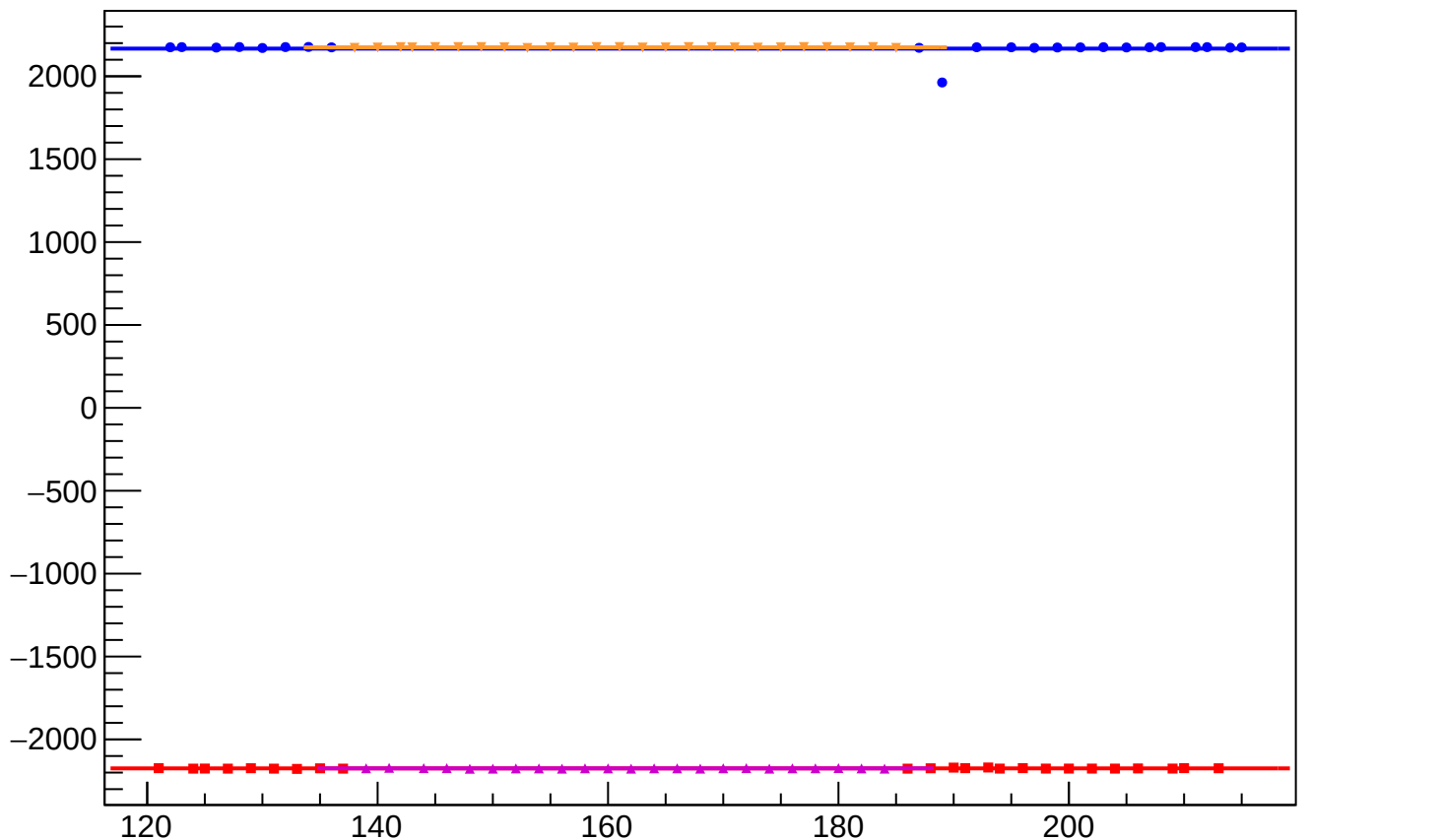
Out: 13.681+/-0.000 χ^2/NDF : 25271003945938984

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

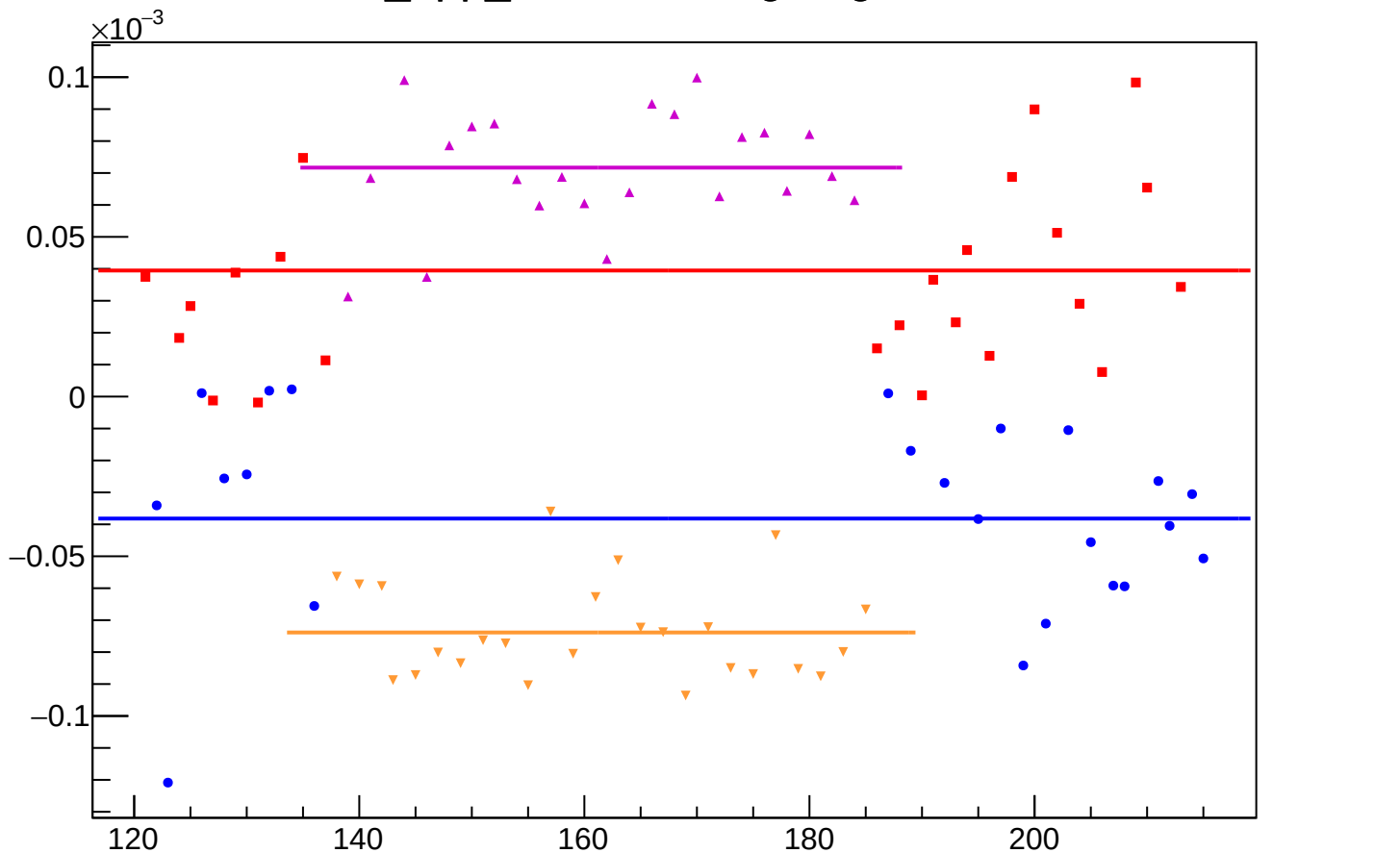
All: 2.216+/-0.000 χ^2/NDF : 51452399531744

HALLA_p_mean vs Slug, Sign Corrected



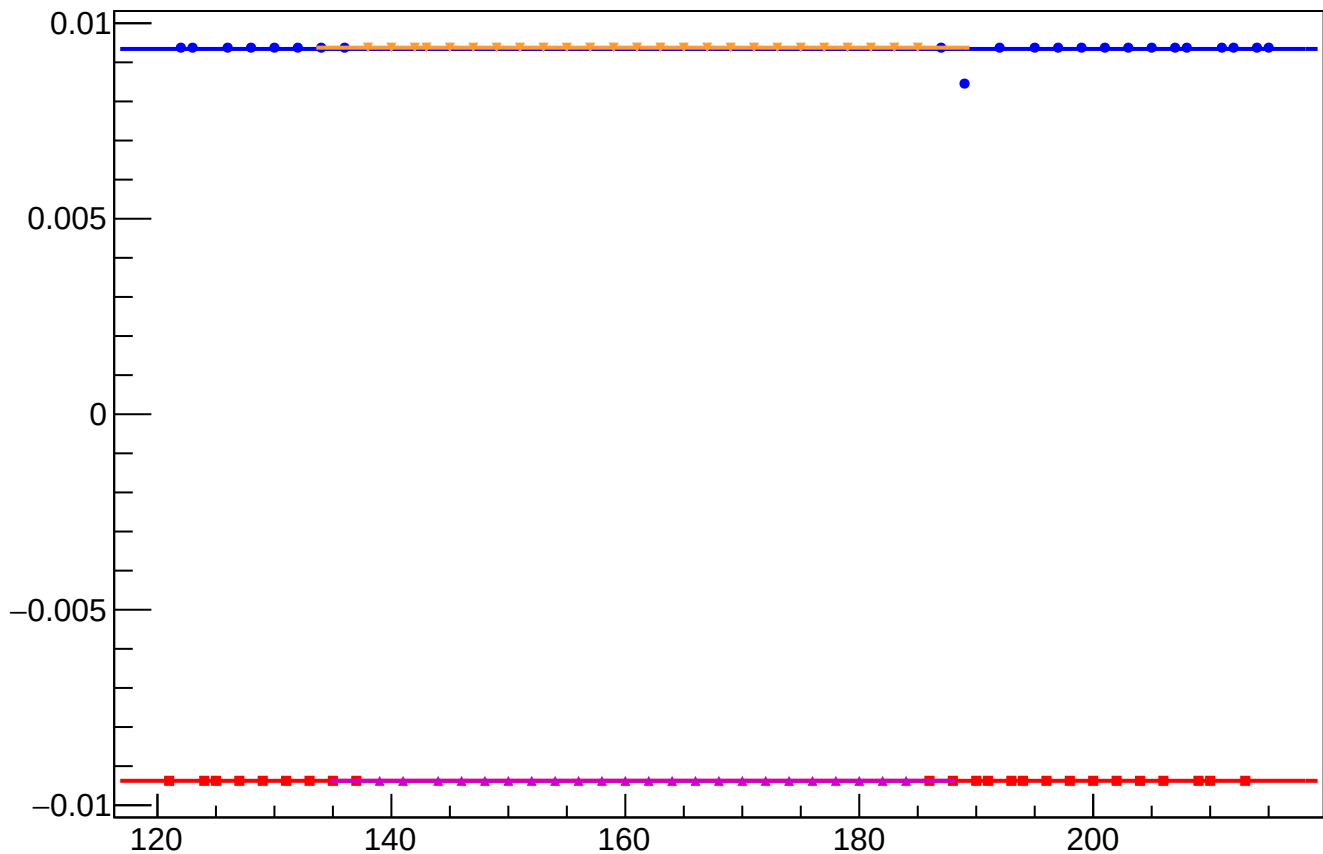
Right In: 2166.974+/-0.000 χ^2/NDF : 2211056324357146436969492293884051456.0/22
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.652+/-0.000 χ^2/NDF : 4869035444551815173204287437144064.0/23
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 54.279+/-0.000 χ^2/NDF : 3081497560256

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 827309681829531617329152.0/22	Left: -0.000+/-0.000	χ^2/NDF : 20702696564433151
Left Out: -0.000+/-0.000	χ^2/NDF : 450400934180541069000704.0/24	Right: -0.000+/-0.000	χ^2/NDF : 6178248251612551
Right Out: 0.000+/-0.000	χ^2/NDF : 1118106833494739563577344.0/23	In: 0.000+/-0.000	χ^2/NDF : 1106922734215641205
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 11814498312282788
		All: -0.000+/-0.000	χ^2/NDF : 2689270525867

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 24592078352734328

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

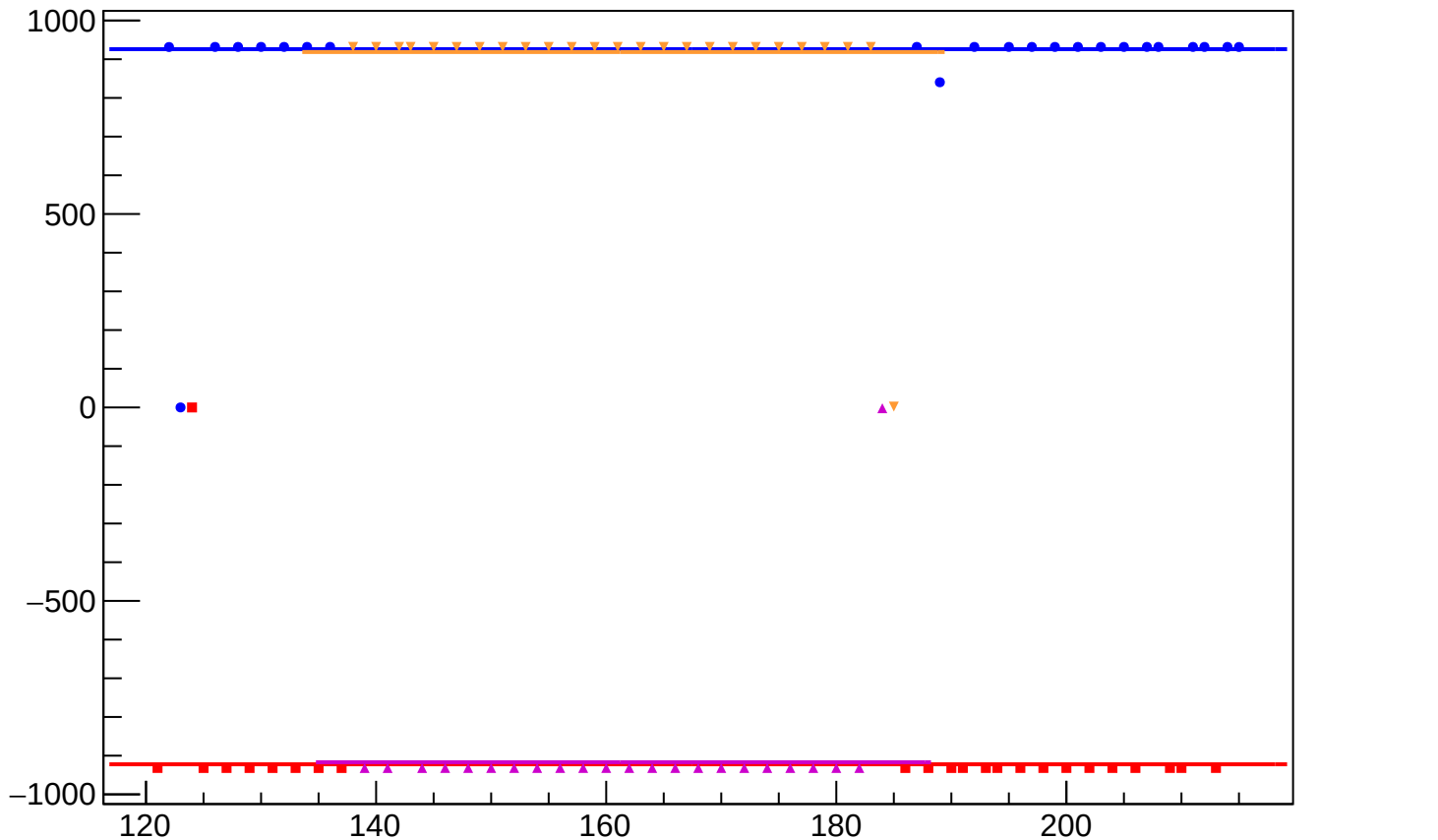
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

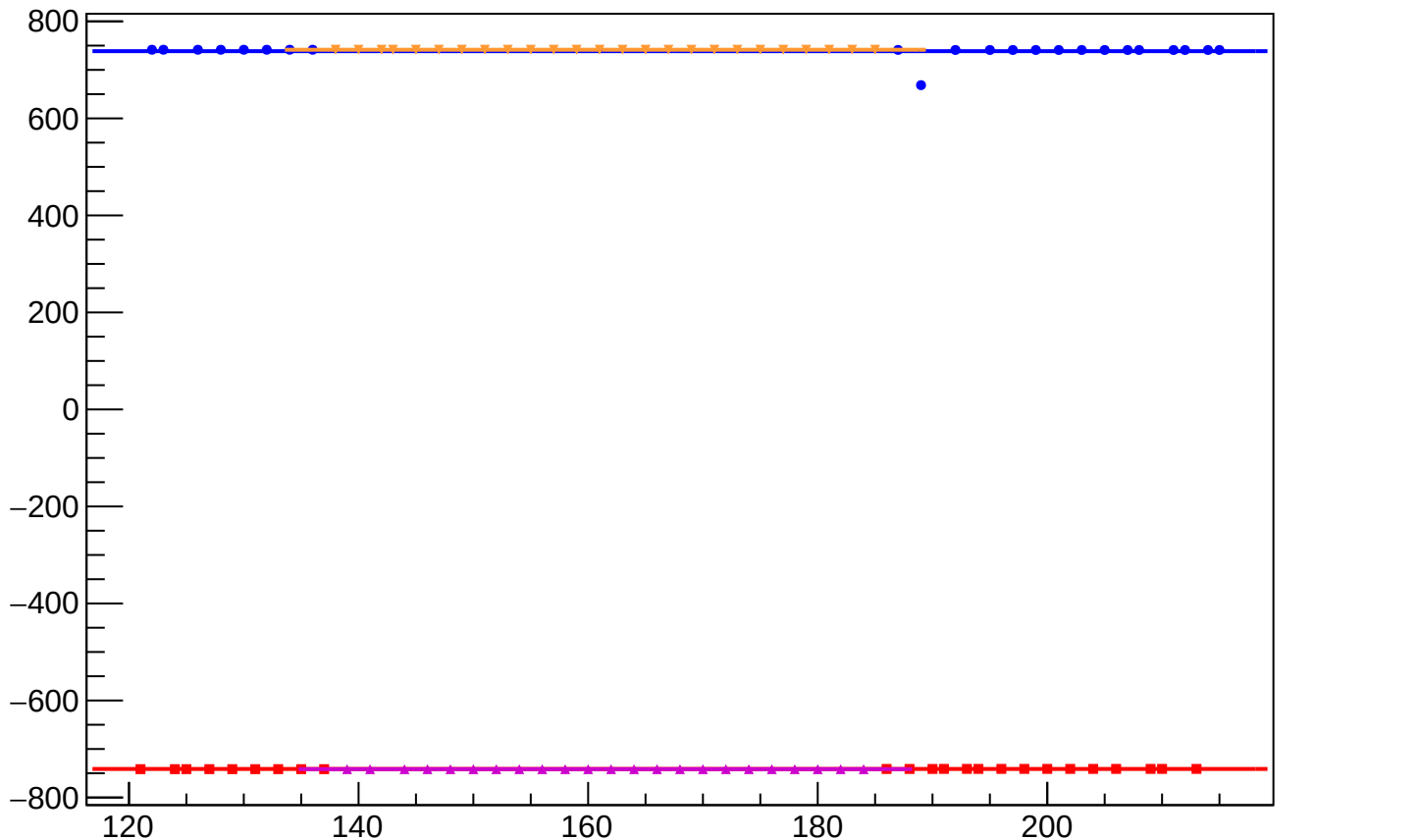
χ^2/NDF : 57273235281801

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



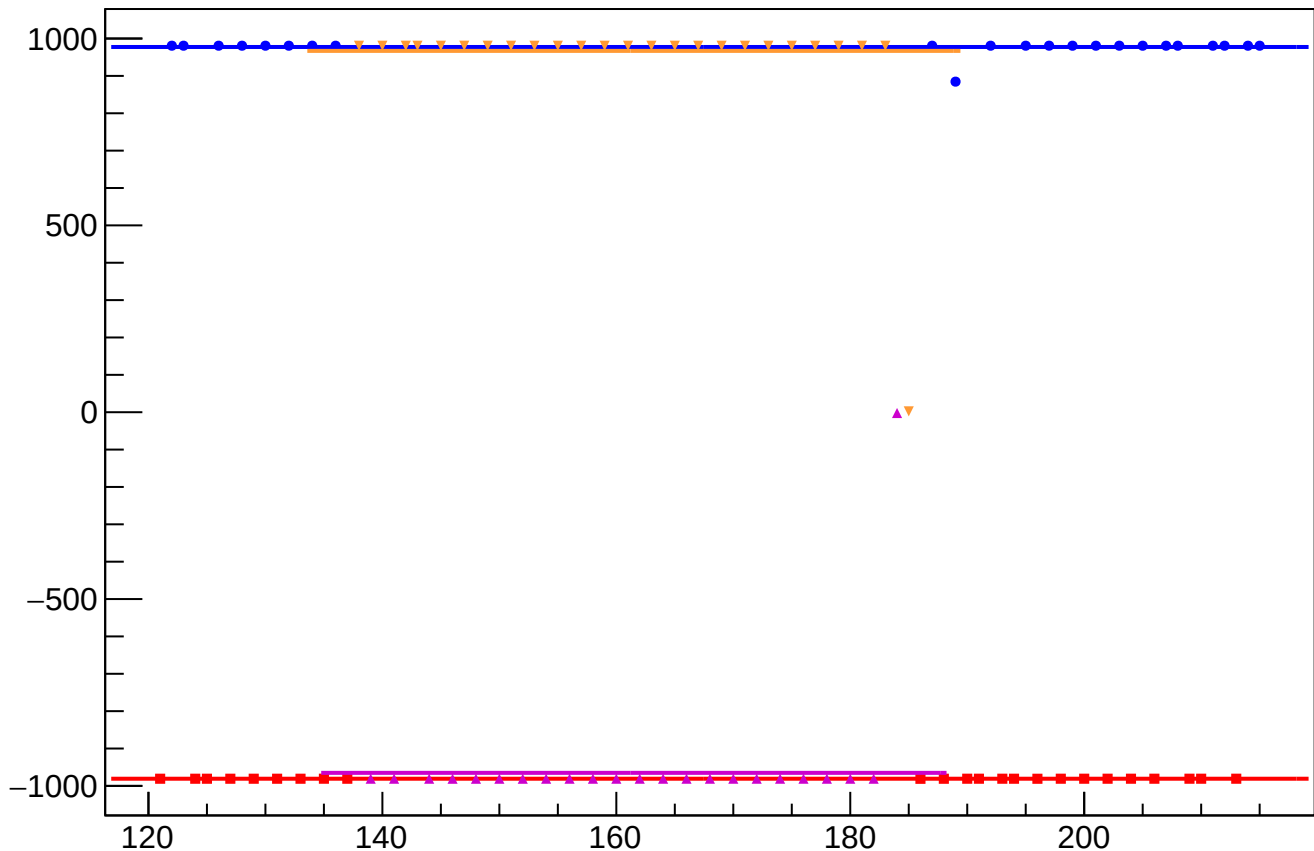
Right In: 925.951+/-0.000 χ^2/NDF : 3848747238651652793645835308738019328.0/22
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -922.274+/-0.000 χ^2/NDF : 12030360361719133082199596576519749632.0/23
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: 24.970+/-0.000 χ^2/NDF : 5592911084536

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.575+/-0.000	χ^2/NDF : 259695827327483166432240915441516544.0/22	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: 16.882+/-0.000	χ^2/NDF : 1536986604929802
Right Out: -741.159+/-0.000	χ^2/NDF : 58943931632253003628767875170304.0/23	In: -86.175+/-0.000	χ^2/NDF : 17568498745479157
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 122.226+/-0.000	χ^2/NDF : 1753759636148705
	All: 18.504+/-0.000		χ^2/NDF : 3581509443244

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.400+/-0.000

χ^2/NDF : 454950551828189447524254324373848064.0/22

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.817+/-0.000

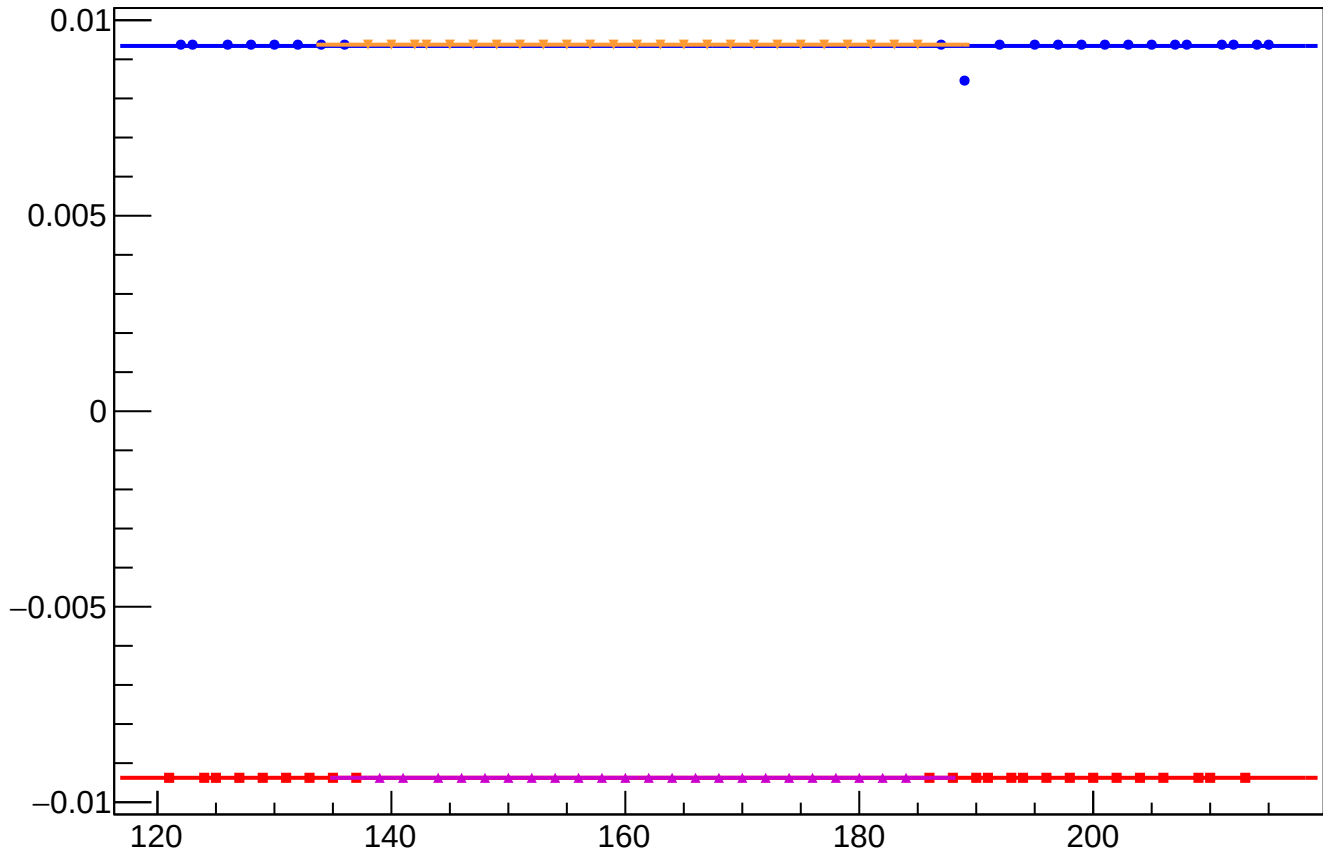
χ^2/NDF : 3501711074171675207762324750336.0/23

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 24.779+/-0.000 χ^2/NDF : 6214485682949

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 24592078352734328

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

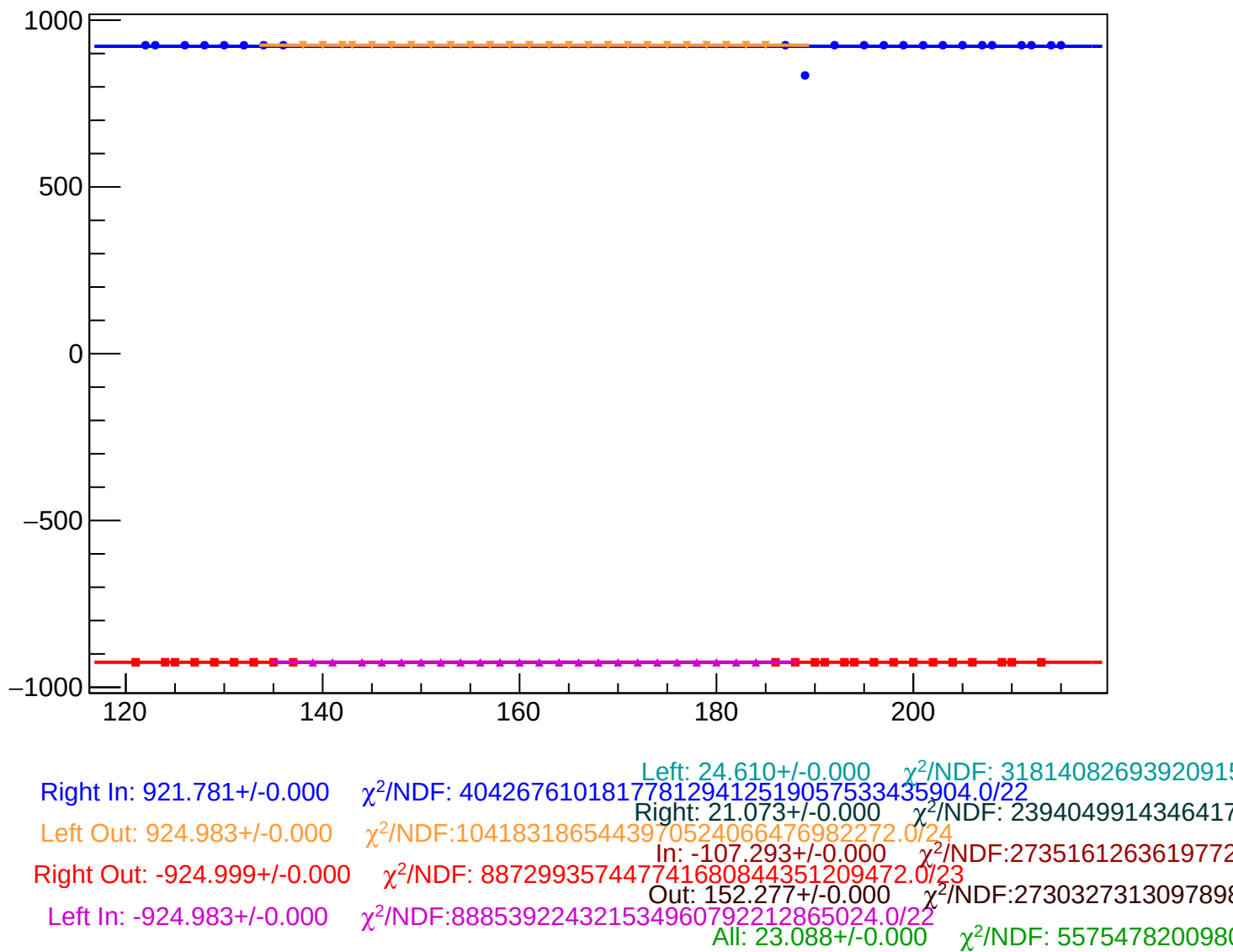
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

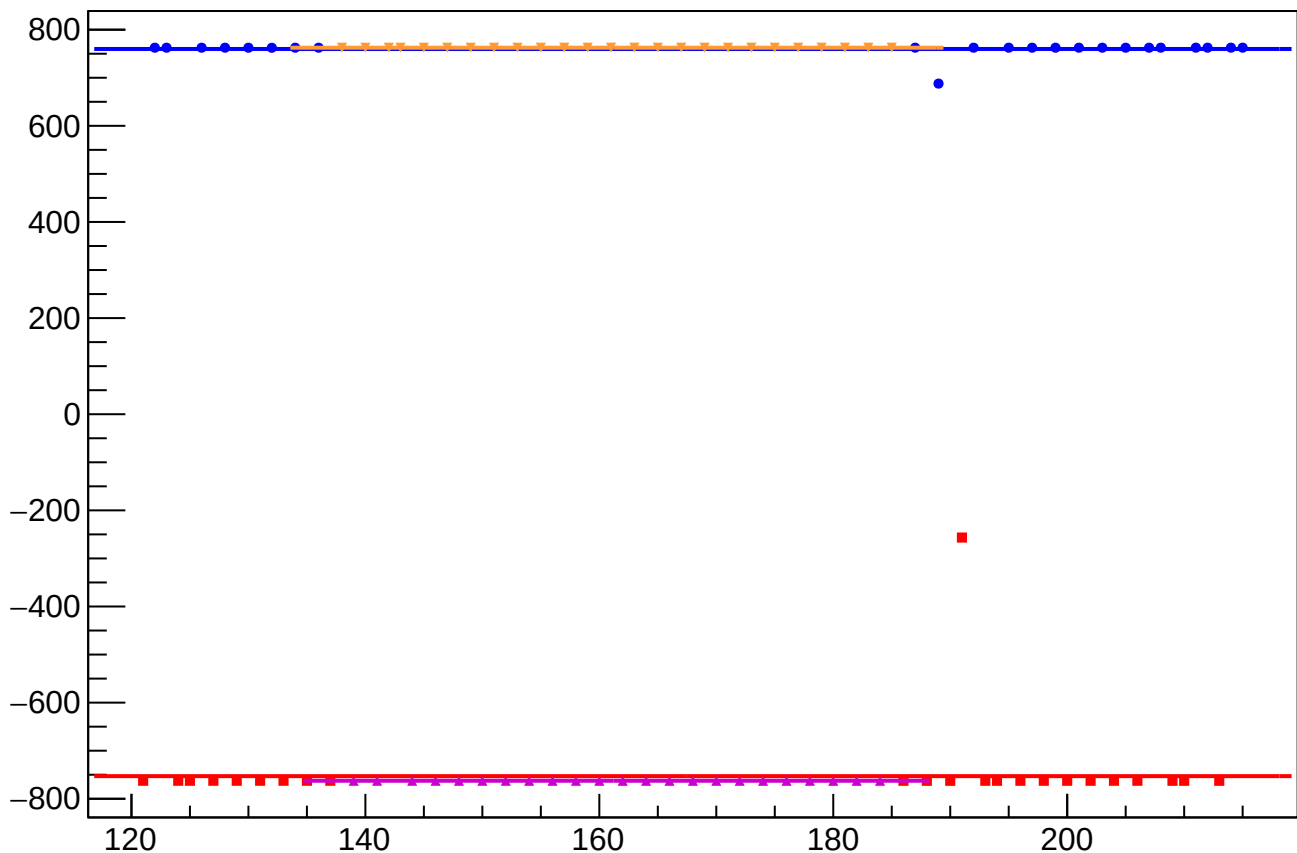
All: 0.000+/-0.000

χ^2/NDF : 57273235281801

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected

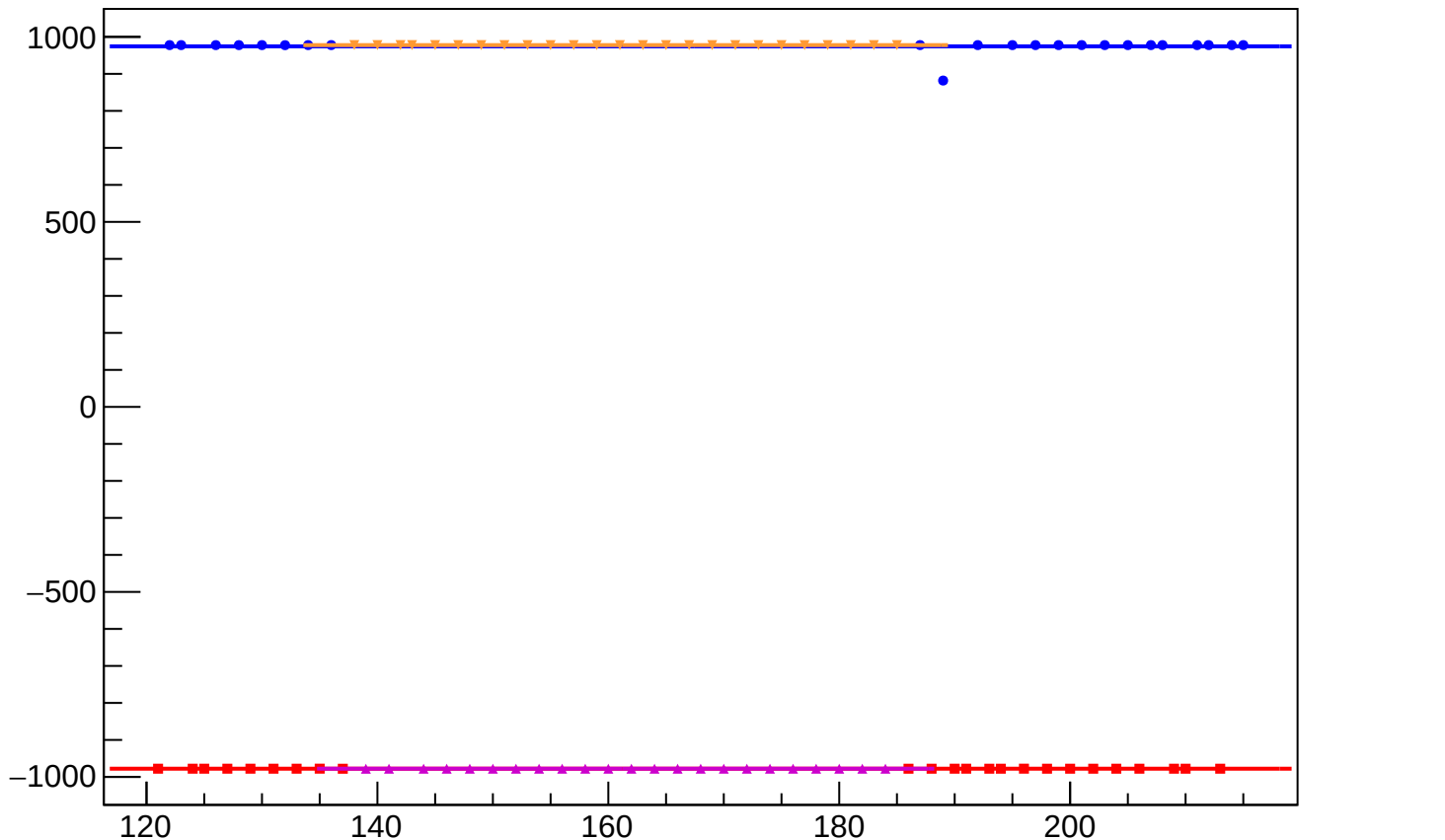


HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



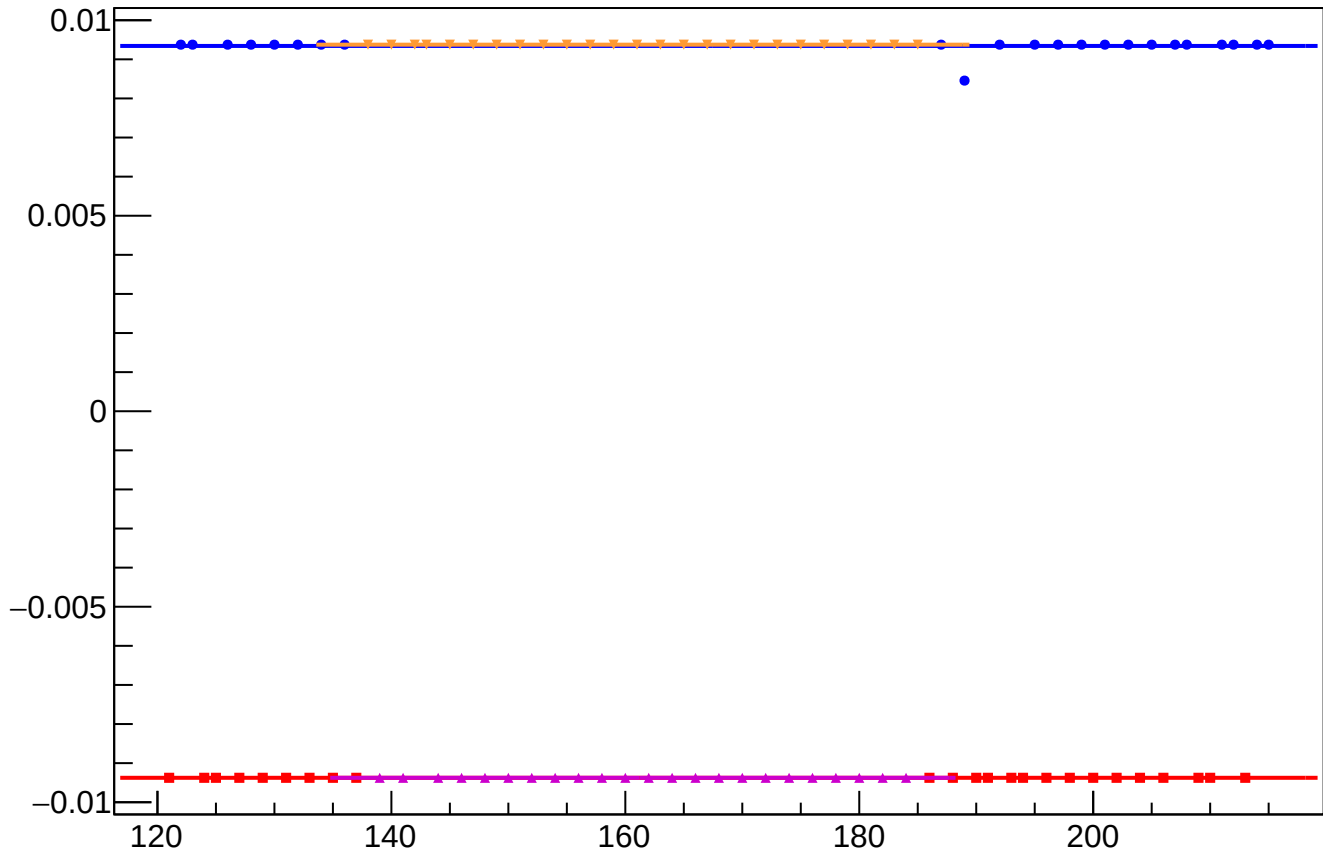
Right In: 759.880+/-0.000	χ^2/NDF : 274624978337053133415194847954862080.0/22	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: 22.054+/-0.000	χ^2/NDF : 1613008465951942
Right Out: -752.933+/-0.000	χ^2/NDF : 6530215535864048243498307768161402880.0/23	In: -88.447+/-0.000	χ^2/NDF : 18587342659734806
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 129.540+/-0.000	χ^2/NDF : 1838694248576405
	All: 21.047+/-0.000		χ^2/NDF : 3775000875093

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.364+/-0.000	χ^2/NDF : 451854919905137279929719054718205952.0/22	Left: 26.015+/-0.000	χ^2/NDF : 35546397150663117
Left Out: 977.738+/-0.000	χ^2/NDF : 1154150409979077132991401558016.0/24	Right: 22.279+/-0.000	χ^2/NDF : 2674952444189740
Right Out: -977.756+/-0.000	χ^2/NDF : 1850371035992917768149776990208.0/23	In: -113.406+/-0.000	χ^2/NDF : 3056071679192631
Left In: -977.735+/-0.000	χ^2/NDF : 976503887937607318263199432704.0/22	Out: 160.961+/-0.000	χ^2/NDF : 3050655420232928
	All: 24.408+/-0.000		χ^2/NDF : 6229614494004

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 24592078352734328

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

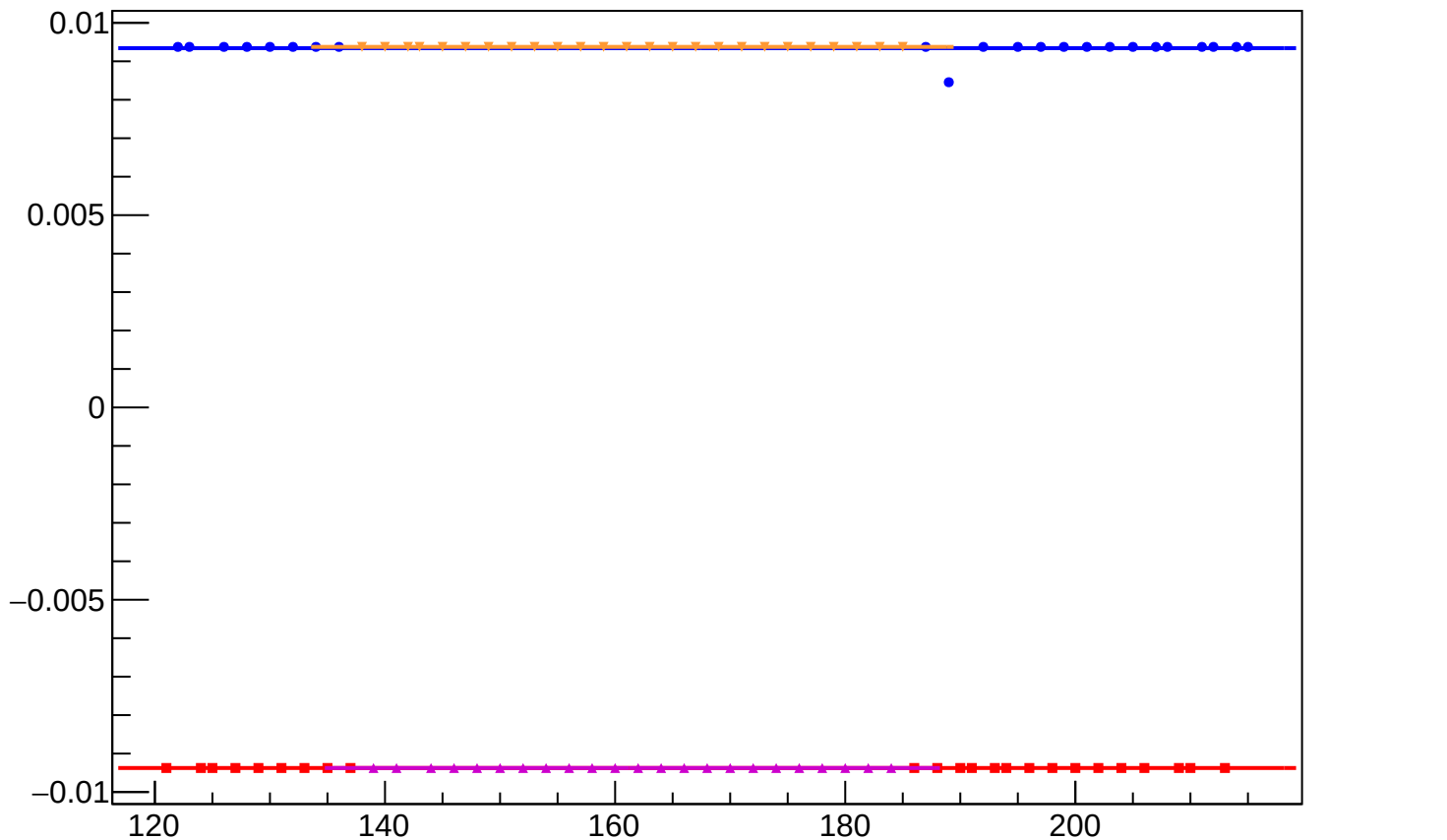
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

χ^2/NDF : 57273235281803

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41556700425130835181568000.0/22

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 24592078352734328

In: -0.001+/-0.000

χ^2/NDF : 280965075827205232

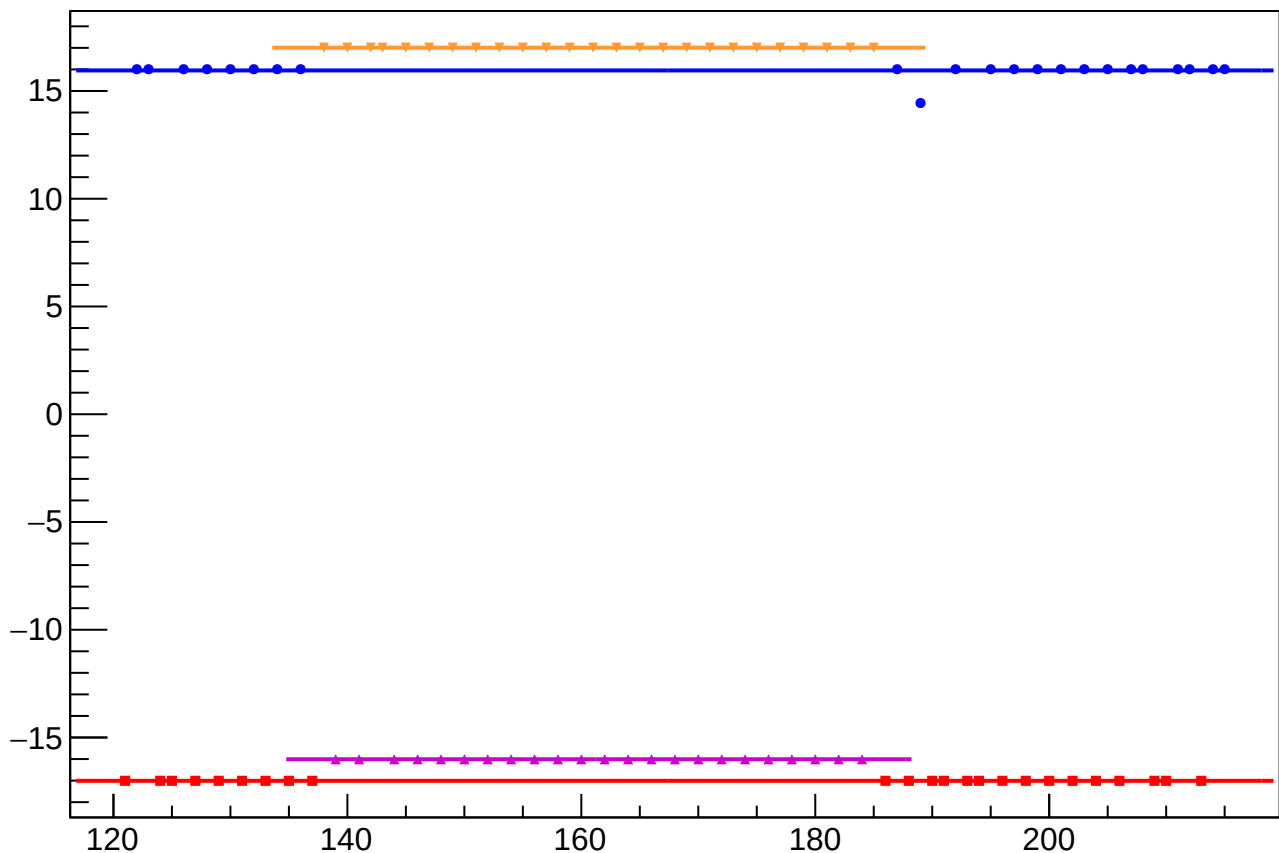
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

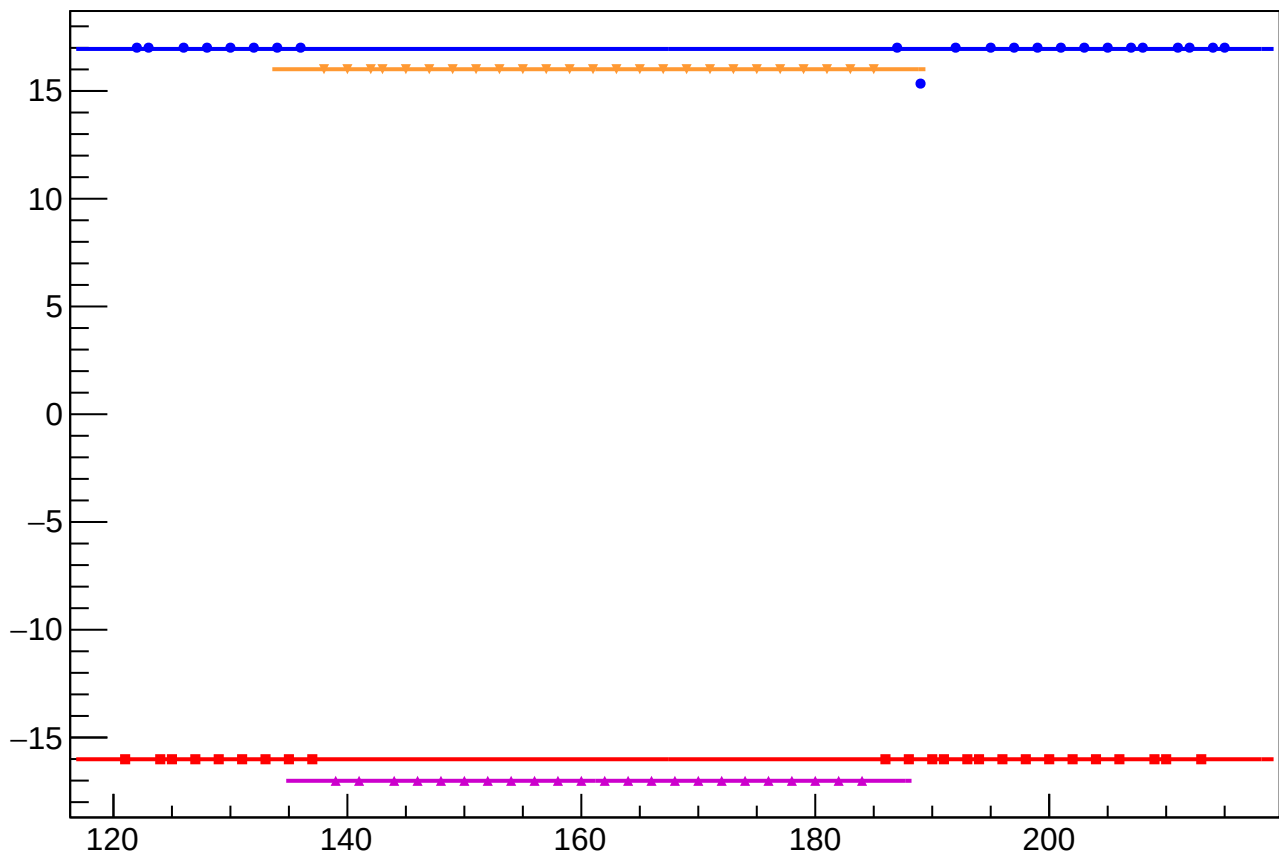
χ^2/NDF : 57273235281801

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



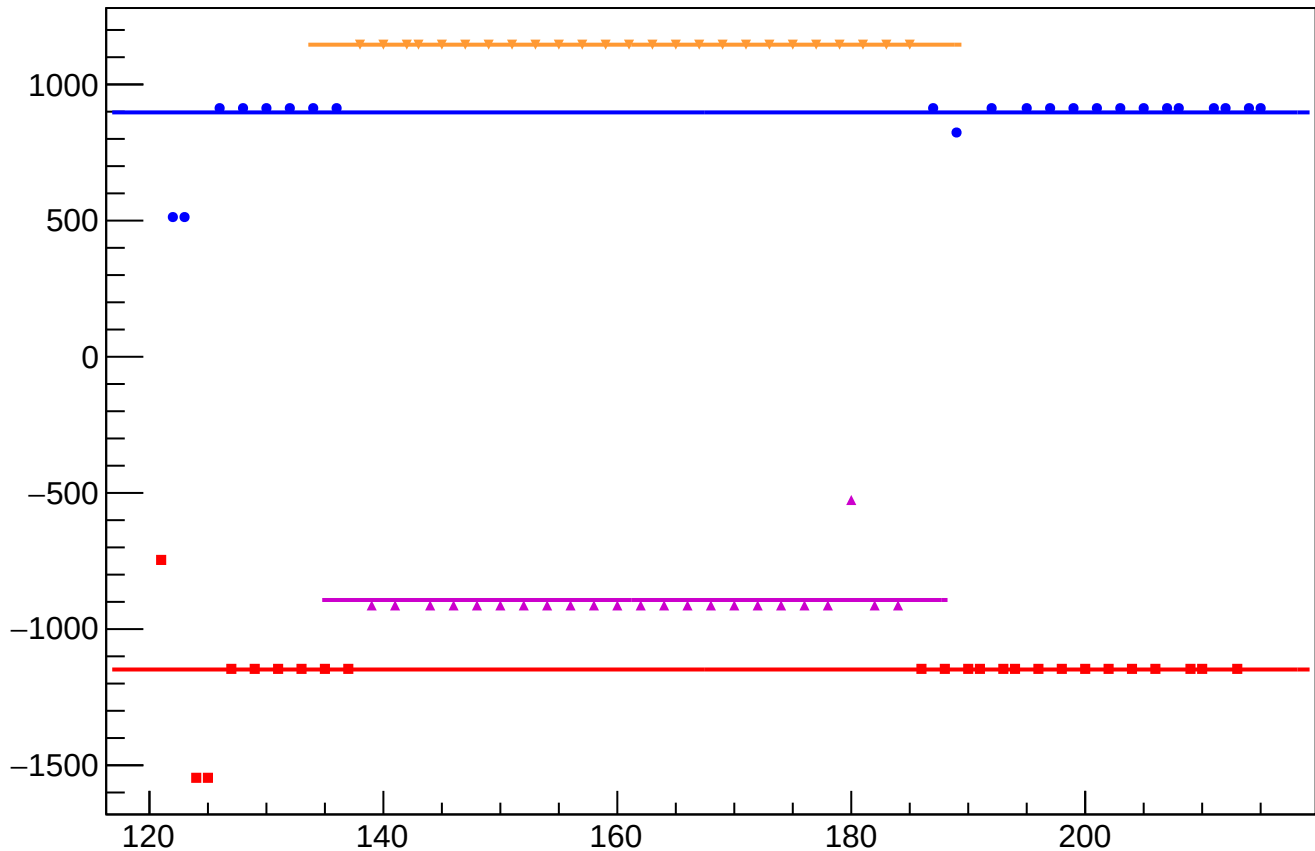
Right In: 15.953 $\pm$ 0.000 χ^2 /NDF: 121101380043706101533117966712832.0/22
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 17249027800232680683995136.0/23
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.443 $\pm$ 0.000 χ^2 /NDF: 16951135161754

IGL1I00OD16_16_mean vs Slug, Sign Corrected



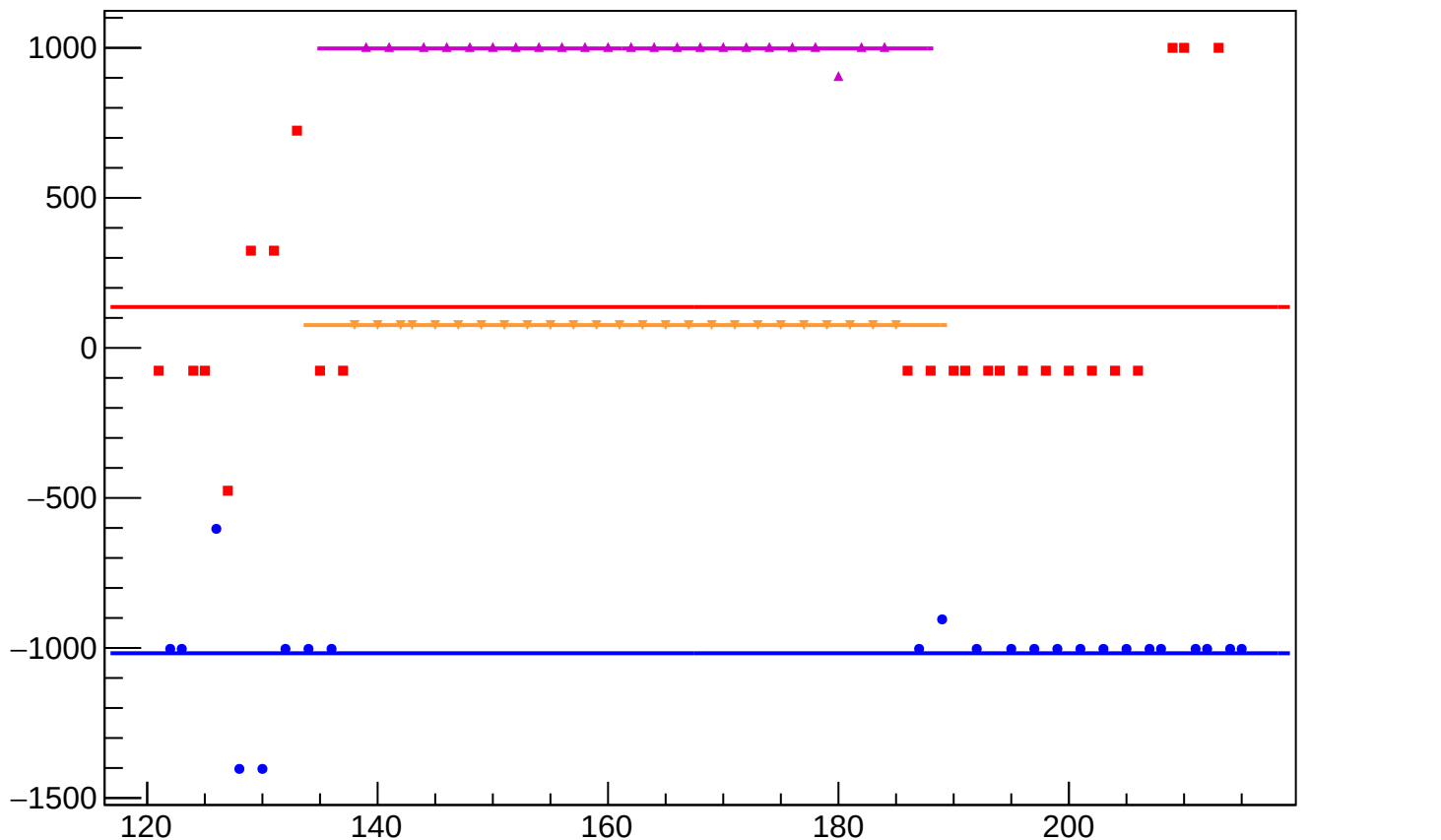
Right In: 16.950+/-0.000 χ^2/NDF : 136795280700164380279692024872960.0/22
 Left Out: 16.009+/-0.000 χ^2/NDF : 89740.8/24
 Right Out: -16.009+/-0.000 χ^2/NDF : 249242.2/23
 Left In: -17.009+/-0.000 χ^2/NDF : 115033472633445654986752.0/22
 In: -1.762+/-0.000 χ^2/NDF : 914564963668898105
 Out: 2.537+/-0.000 χ^2/NDF : 813554414119847644
 All: 0.405+/-0.000 χ^2/NDF : 17579707710259

RTPAPOSUCNT_mean vs Slug, Sign Corrected



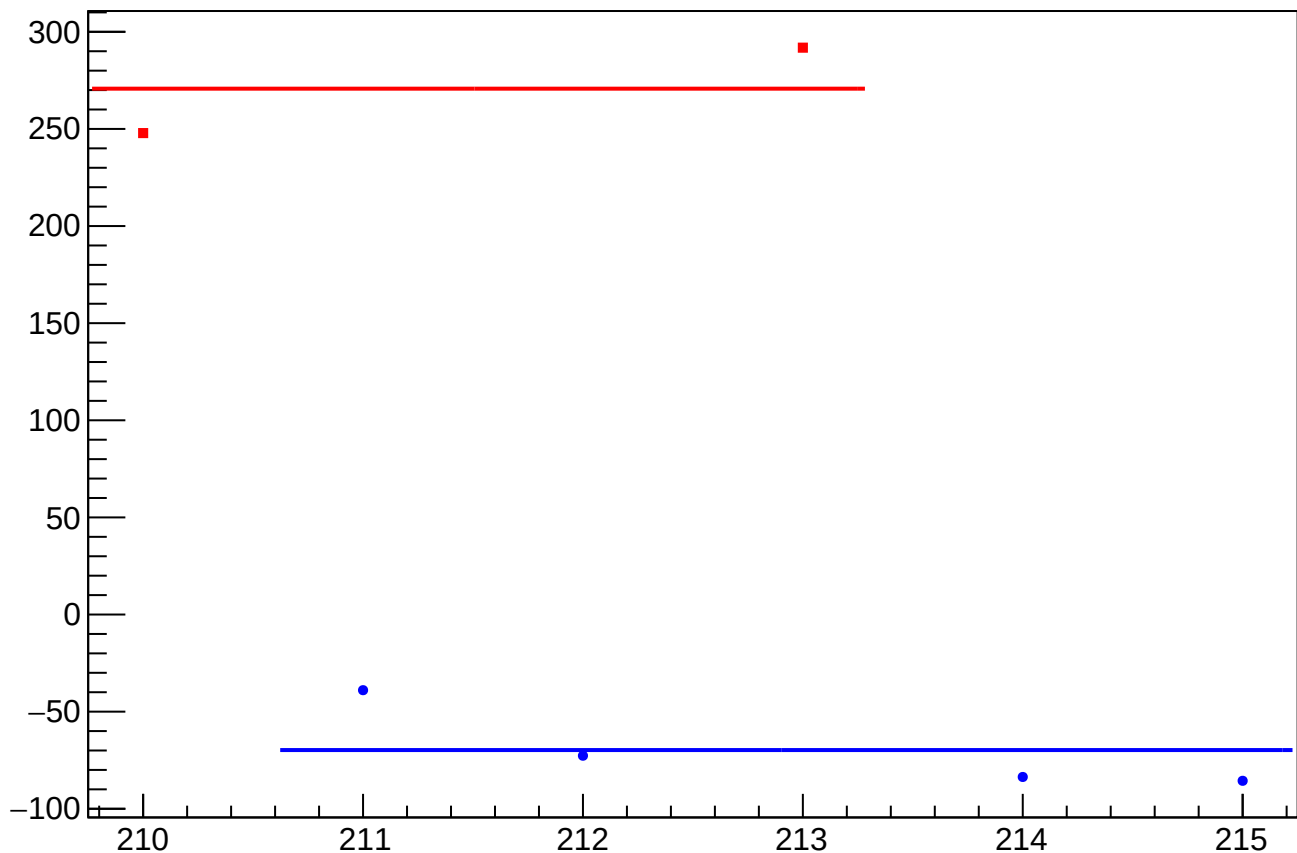
Right In: 897.313+/-0.000 χ^2/NDF : 7254817811838163799985751248051634176.0/22
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.345+/-0.000 χ^2/NDF : 13753193684891575041247788327038353408.0/23
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 44.326+/-0.000 χ^2/NDF : 6939691061722

RTPAPOSVCNT_mean vs Slug, Sign Corrected



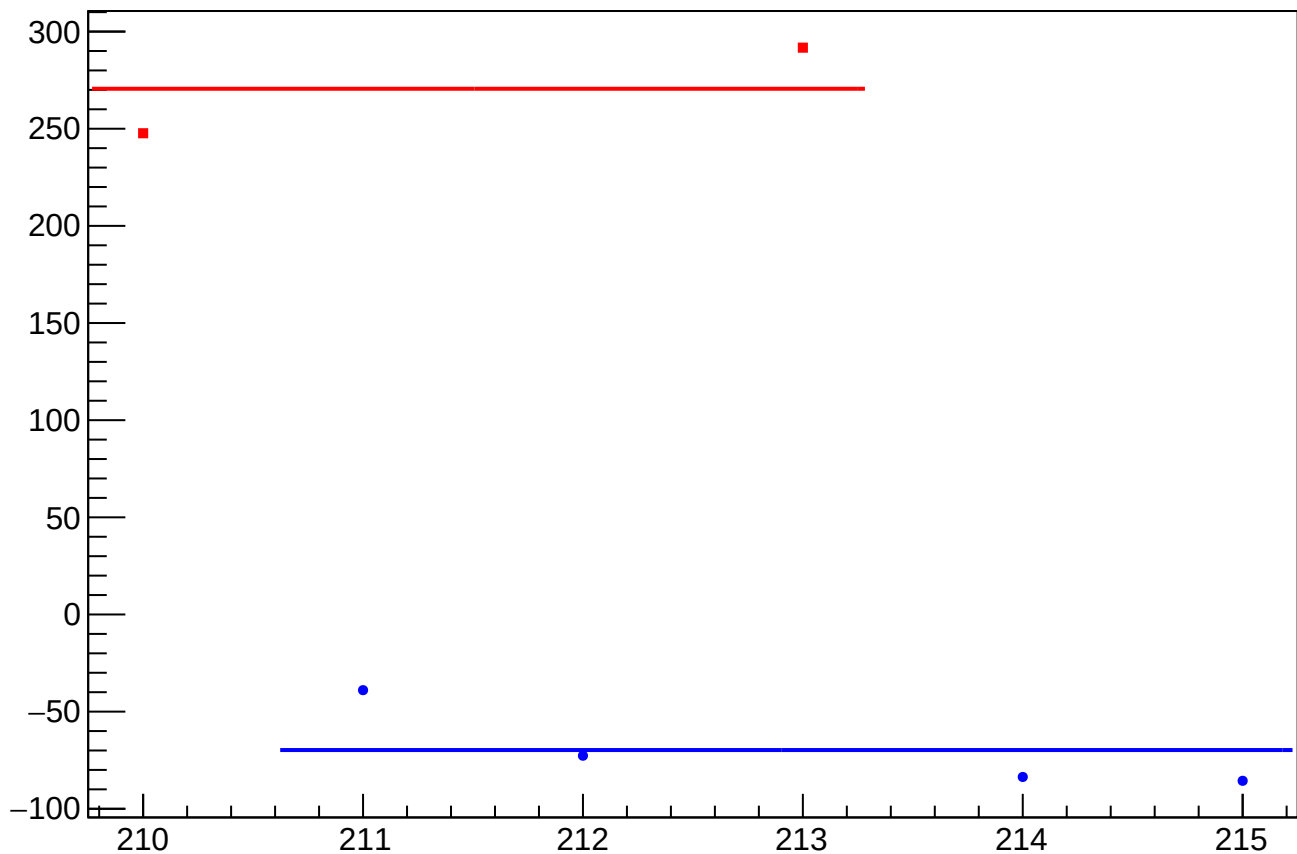
Right In: -1017.572 ± 0.000 $\chi^2/\text{NDF}: 23386782472197702231295877545373728768.0/22$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11003263624957134120836661248.0/24$
 Right Out: 136.324 ± 0.000 $\chi^2/\text{NDF}: 245769535234221074351283229545319104512.0/23$
 Left In: 998.020 ± 0.000 $\chi^2/\text{NDF}: 826231736084035689068445378231140352.0/22$
 All: 103.380 ± 0.000 $\chi^2/\text{NDF}: 353054115630$

RTPPITA1CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right In: -69.774+/-0.000 χ^2/NDF : 105864088683195568752421154630664192.0/3
Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right: 44.489+/-0.000 χ^2/NDF : 1173357739824937
In: -69.774+/-0.000 χ^2/NDF : 105864088683195568752421154630664192.0/3
Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 44.489+/-0.000 χ^2/NDF : 1173357739824937

RTPPITA2CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right In: -69.774+/-0.000 χ^2/NDF : 105864088683195568752421154630664192.0/3
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: 44.437+/-0.000 χ^2/NDF : 1172332007639532
 In: -69.774+/-0.000 χ^2/NDF : 10586408868319556
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: 44.437+/-0.000 χ^2/NDF : 1172332007639