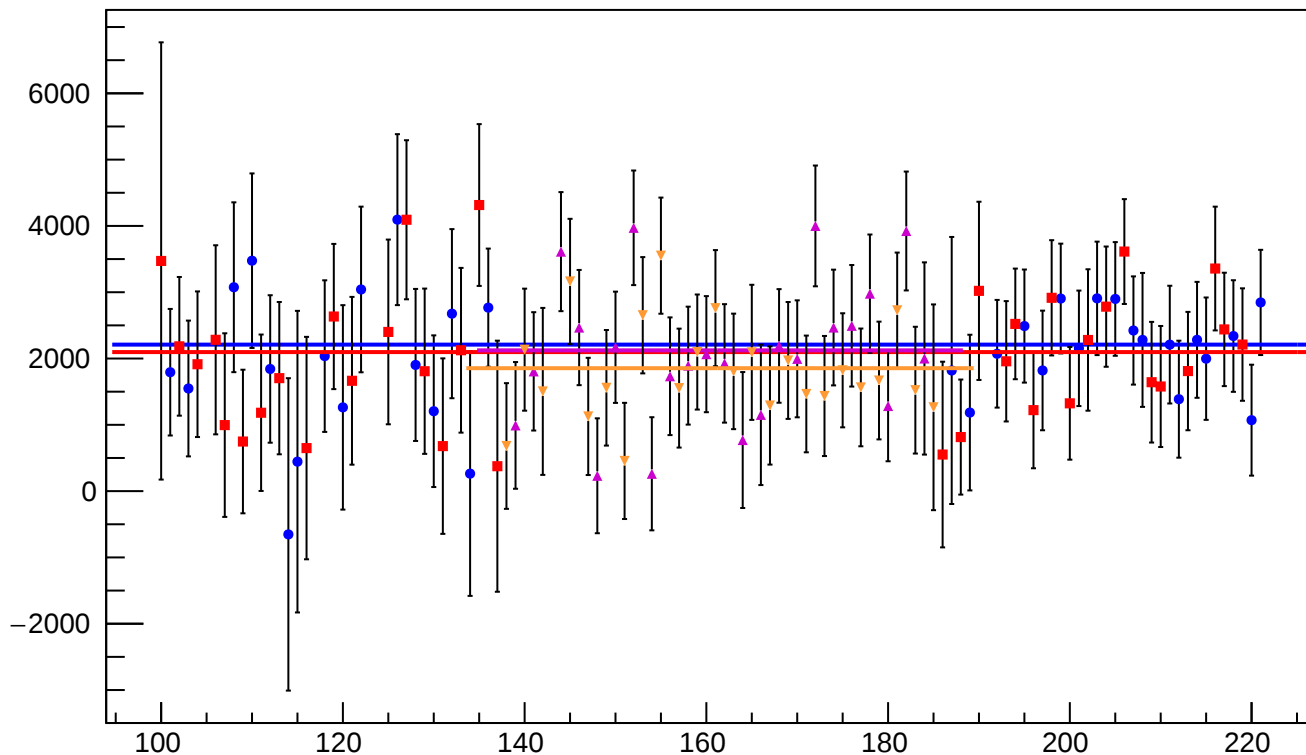


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2209.761+/-173.863

Left Out: 1854.267+/-187.405

Right Out: 2097.149+/-178.658

Left In: 2123.138+/-188.684

χ^2/NDF : 16.3/33

χ^2/NDF : 15.1/23

χ^2/NDF : 26.2/34

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2154.986+/-124.600

In: 2169.985+/-127.859

Out: 1981.508+/-129.312

All: 2076.812+/-90.919

χ^2/NDF : 48.1/46

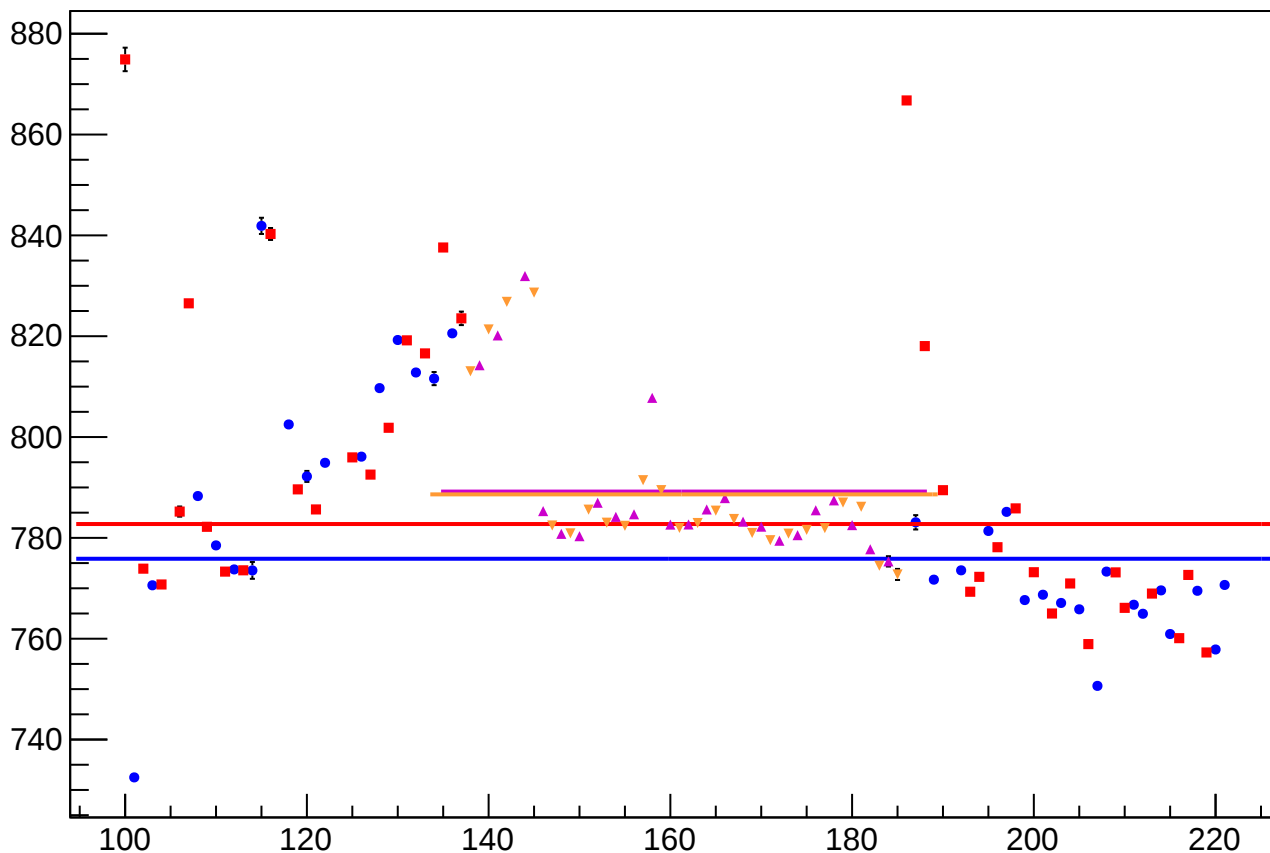
χ^2/NDF : 42.7/68

χ^2/NDF : 48.4/56

χ^2/NDF : 42.2/58

χ^2/NDF : 91.7/115

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 775.857 $\pm$ 0.123 χ^2 /NDF: 25794.2/33

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

Right Out: 782.747 $\pm$ 0.126 χ^2 /NDF: 34374.8/34

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

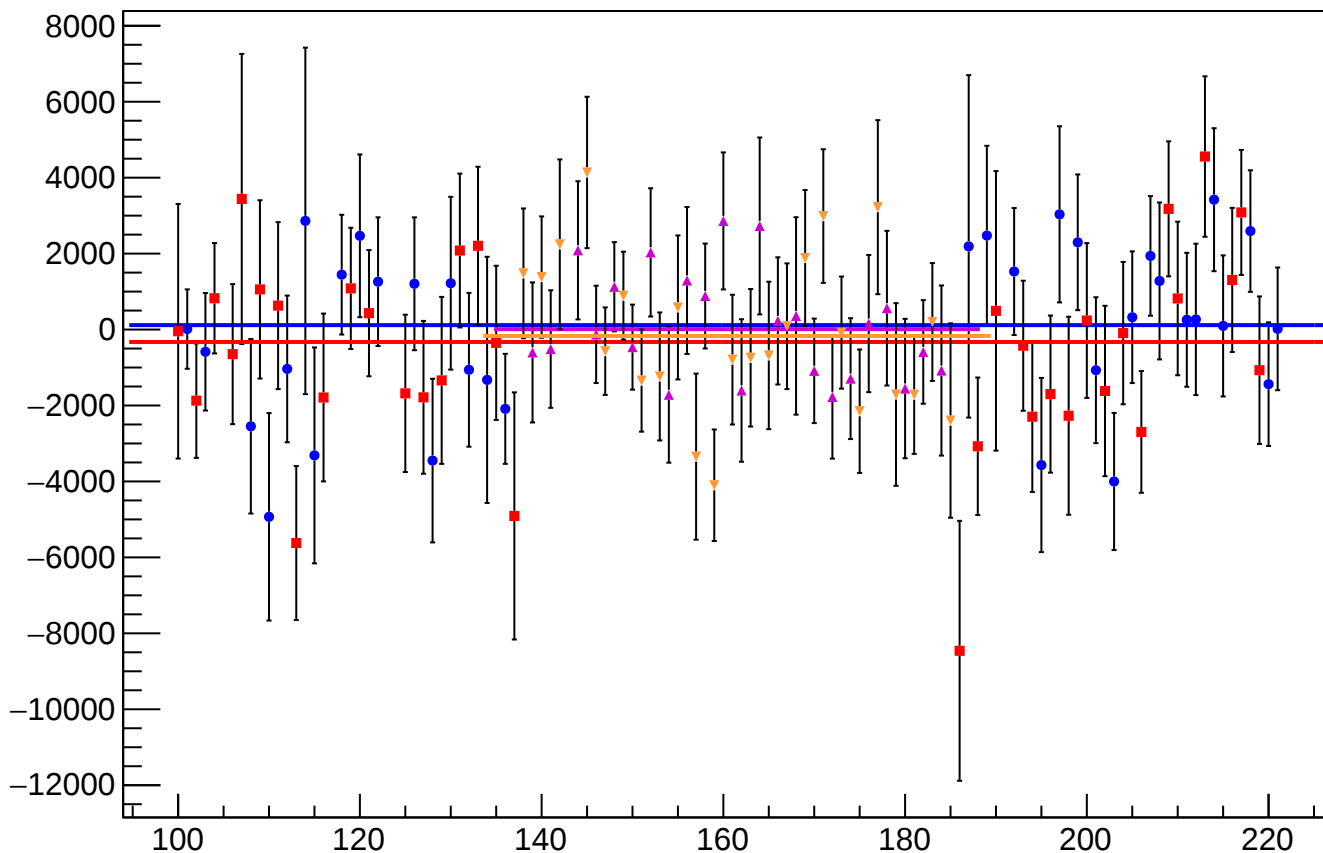
Right: 779.208 $\pm$ 0.088 χ^2 /NDF: 61696.6/68

In: 781.977 $\pm$ 0.090 χ^2 /NDF:42533.8/56

Out: 785.548 $\pm$ 0.091 χ^2 /NDF:46885.2/58

All: 783.742 $\pm$ 0.064 χ^2 /NDF: 90190.0/115

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 116.457 $\pm$ 320.517 χ^2/NDF : 37.0/33

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

Right Out: -326.625 $\pm$ 338.947 χ^2/NDF : 44.8/34

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

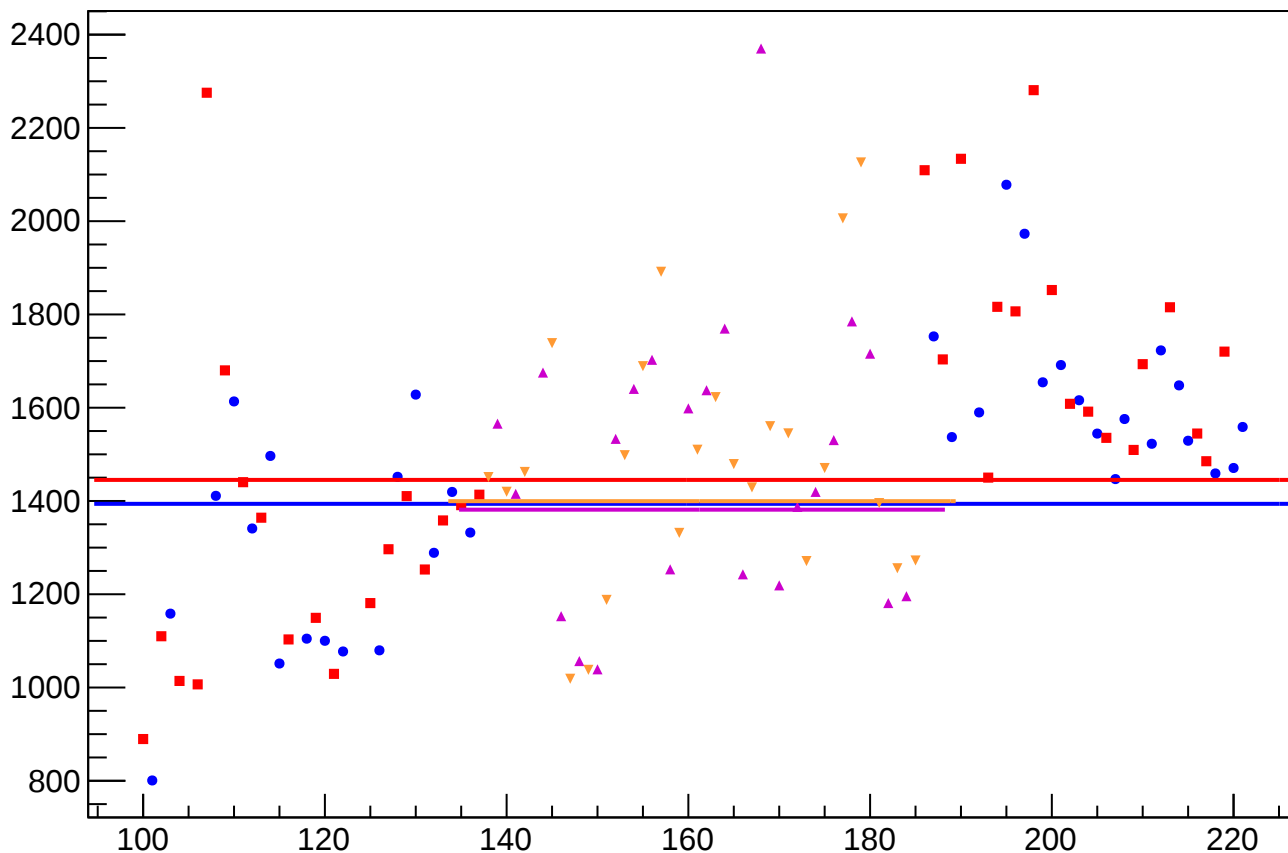
Right: -92.711 $\pm$ 232.883 χ^2/NDF : 82.7/68

In: 66.067 $\pm$ 232.513 χ^2/NDF : 51.2/56

Out: -248.233 $\pm$ 240.181 χ^2/NDF : 74.9/58

All: -85.986 $\pm$ 167.056 χ^2/NDF : 127.1/115

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1393.883 $\pm$ 0.227 χ^2 /NDF: 1650553.0/33

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

Right Out: 1445.191 $\pm$ 0.240 χ^2 /NDF: 1641940.0/34

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

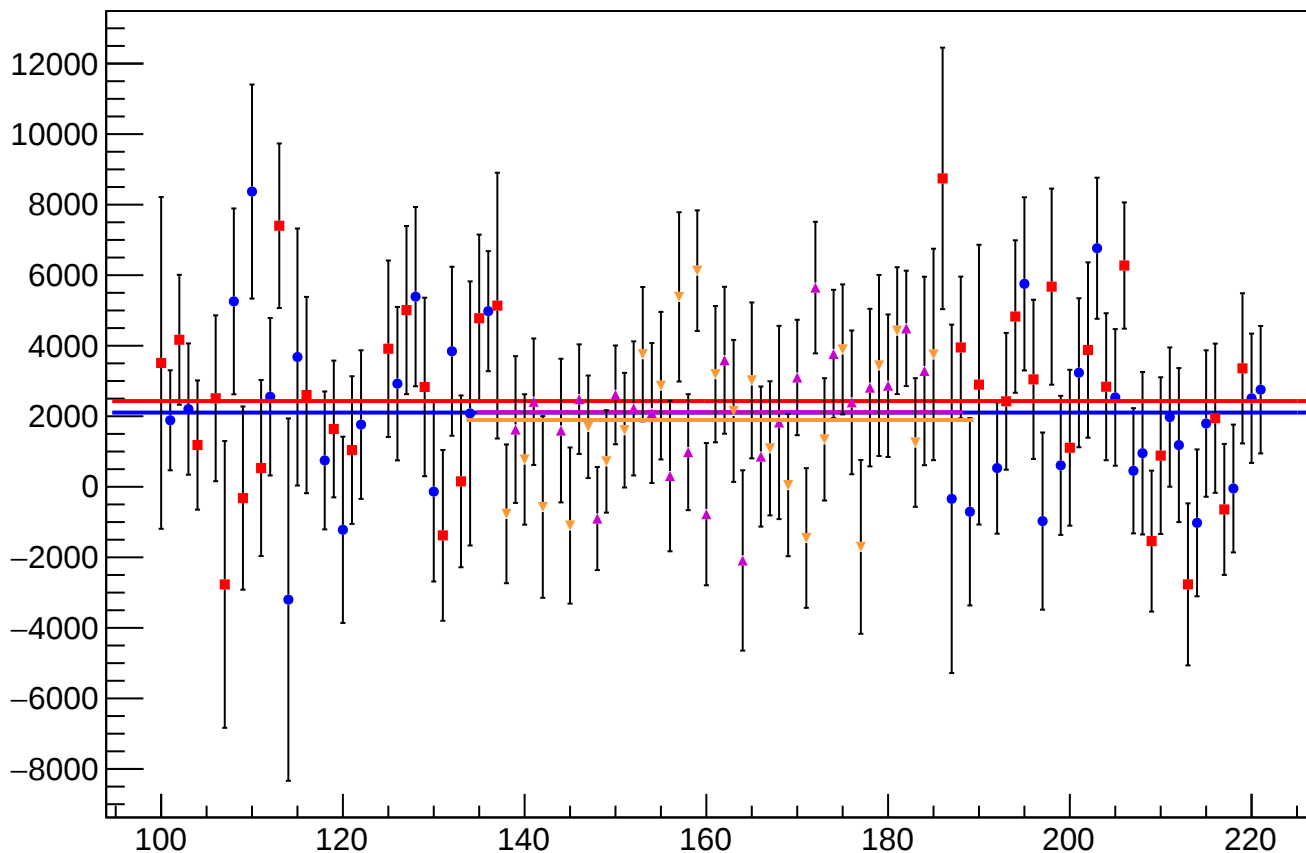
Right: 1418.104 $\pm$ 0.165 χ^2 /NDF: 3316686.8/68

In: 1387.950 $\pm$ 0.164 χ^2 /NDF:2928488.0/56

Out: 1422.486 $\pm$ 0.170 χ^2 /NDF:2779090.9/58

All: 1404.658 $\pm$ 0.118 χ^2 /NDF: 5728925.6/11

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2104.725 $\pm$ 371.909 χ^2 /NDF: 32.4/33

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

Right Out: 2430.897 $\pm$ 390.746 χ^2 /NDF: 40.3/34

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

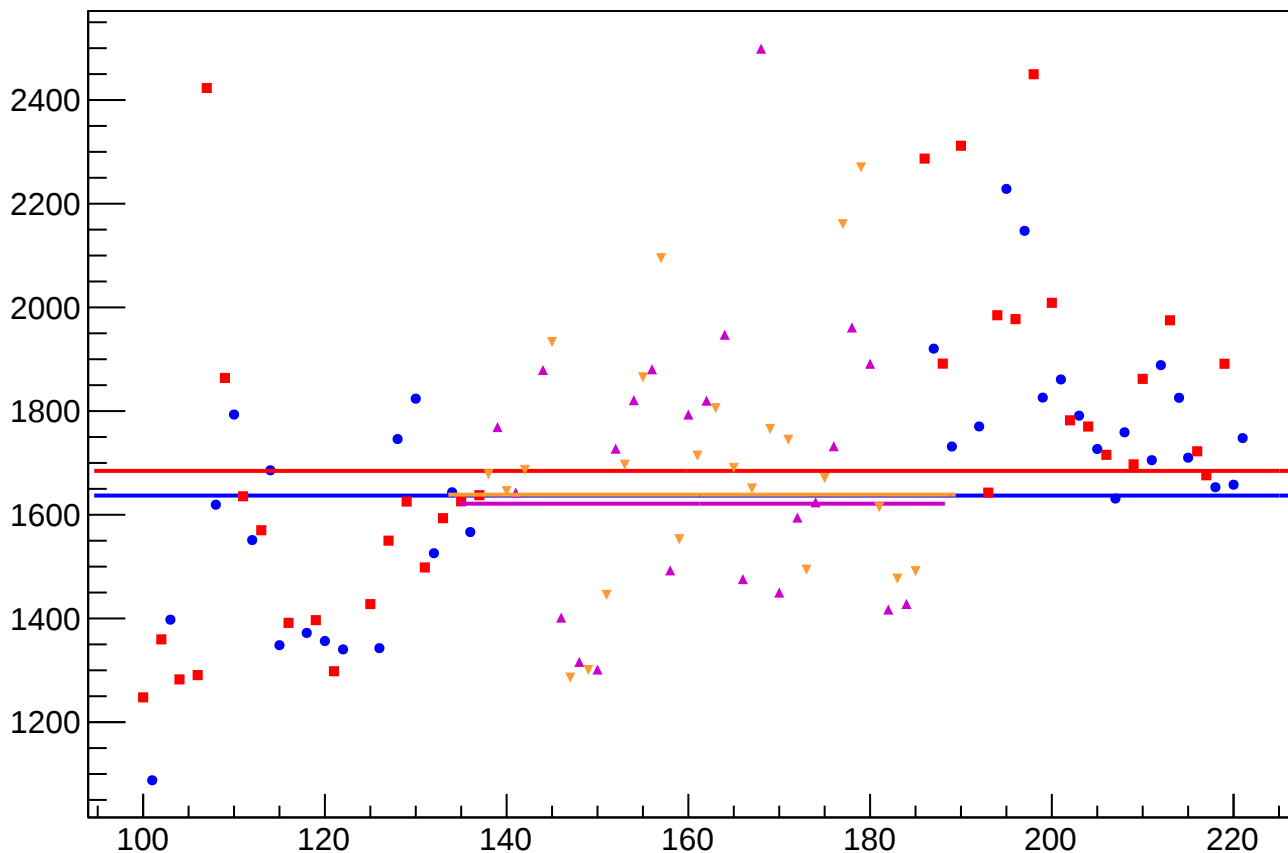
Right: 2259.760 $\pm$ 269.393 χ^2 /NDF: 73.1/68

In: 2110.106 $\pm$ 270.127 χ^2 /NDF:51.2/56

Out: 2165.008 $\pm$ 277.748 χ^2 /NDF:67.2/58

All: 2136.794 $\pm$ 193.647 χ^2 /NDF: 118.4/115

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1637.051 $\pm$ 0.263 χ^2/NDF : 848248.9/33

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

Right Out: 1684.645 $\pm$ 0.276 χ^2/NDF : 955318.1/34

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

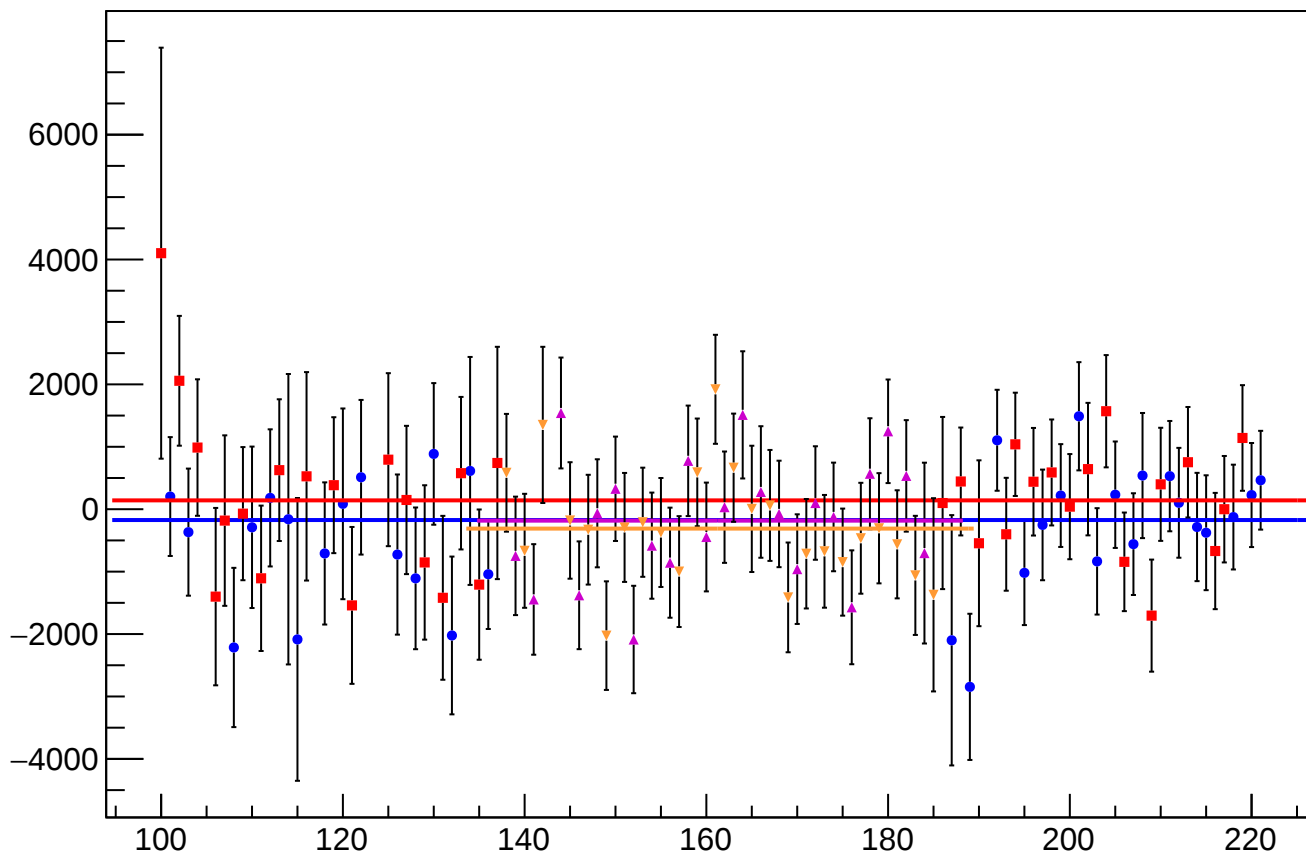
Right: 1659.673 $\pm$ 0.190 χ^2/NDF : 1819135.1/68

In: 1629.665 $\pm$ 0.191 χ^2/NDF : 1625228.8/56

Out: 1661.967 $\pm$ 0.196 χ^2/NDF : 1640841.7/58

All: 1645.366 $\pm$ 0.137 χ^2/NDF : 3279972.1/11

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -173.456 ± 172.685 $\chi^2/\text{NDF}: 26.0/33$

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

Right Out: 141.502 ± 177.126 $\chi^2/\text{NDF}: 27.3/34$

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

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

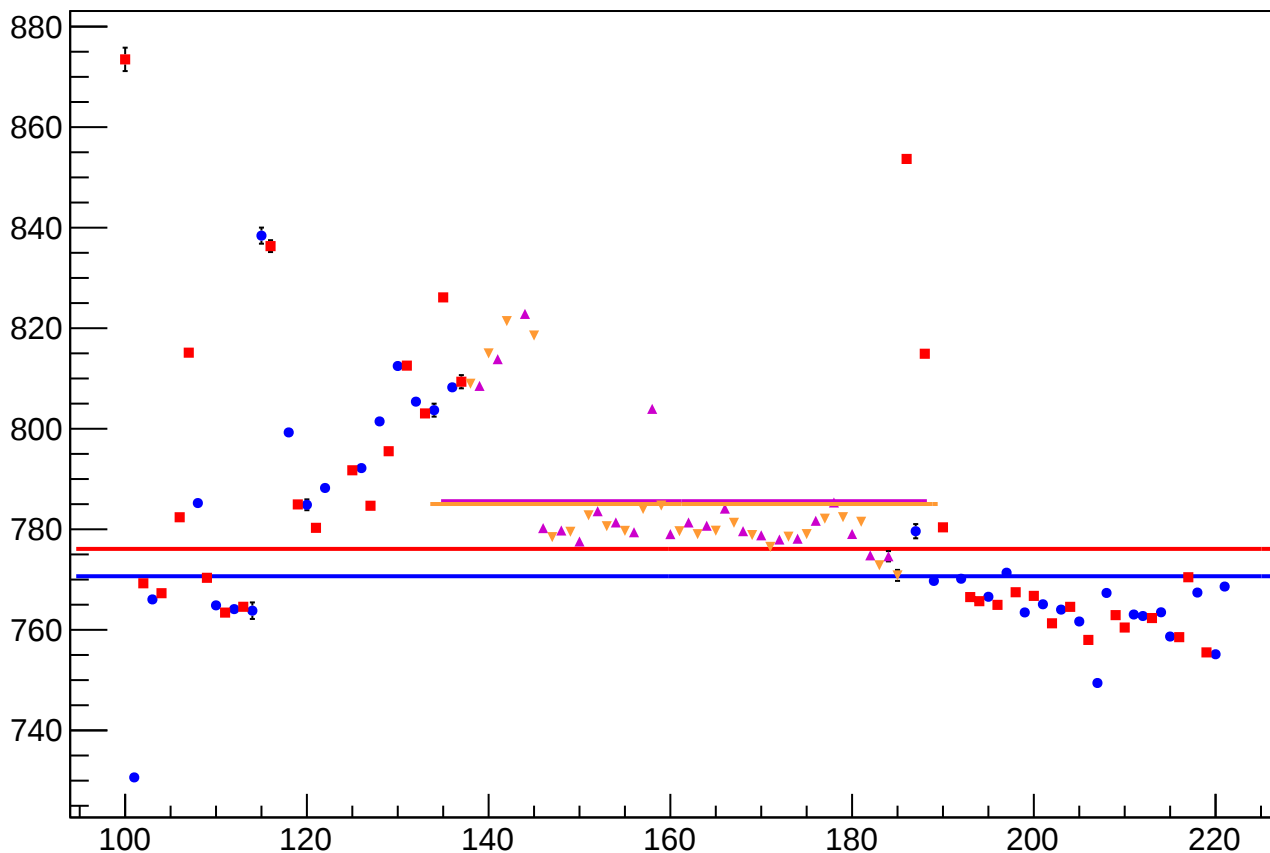
Right: -19.974 ± 123.647 $\chi^2/\text{NDF}: 54.9/68$

In: -177.780 ± 127.120 $\chi^2/\text{NDF}: 52.1/56$

Out: -72.839 ± 128.445 $\chi^2/\text{NDF}: 50.5/58$

All: -125.853 ± 90.353 $\chi^2/\text{NDF}: 102.9/115$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 770.663 $\pm$ 0.122 χ^2 /NDF: 21750.5/33

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

Right Out: 776.101 $\pm$ 0.125 χ^2 /NDF: 31333.8/34

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

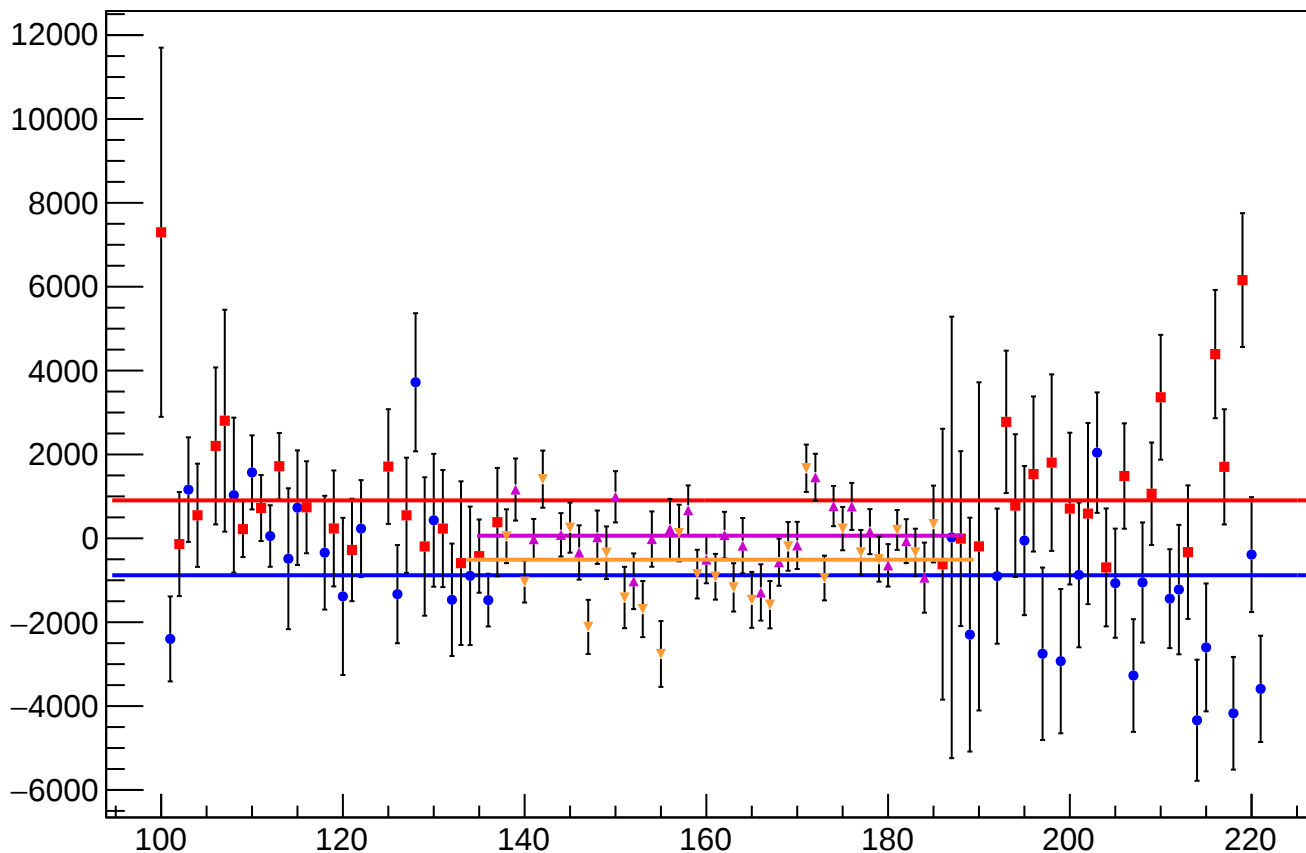
Right: 773.313 $\pm$ 0.087 χ^2 /NDF: 54050.7/68

In: 777.502 $\pm$ 0.090 χ^2 /NDF:37971.5/56

Out: 780.335 $\pm$ 0.091 χ^2 /NDF:43111.6/58

All: 778.904 $\pm$ 0.064 χ^2 /NDF: 81574.6/115

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -880.725+/-222.937 χ^2/NDF : 55.7/33

Left Out: -509.311+/-121.190 χ^2/NDF :60.5/23

Right Out: 904.953+/-226.375 χ^2/NDF : 34.7/34

Left In: 62.768+/-122.045 χ^2/NDF :28.8/22

Left: -225.283+/-85.995 χ^2/NDF : 100.4/46

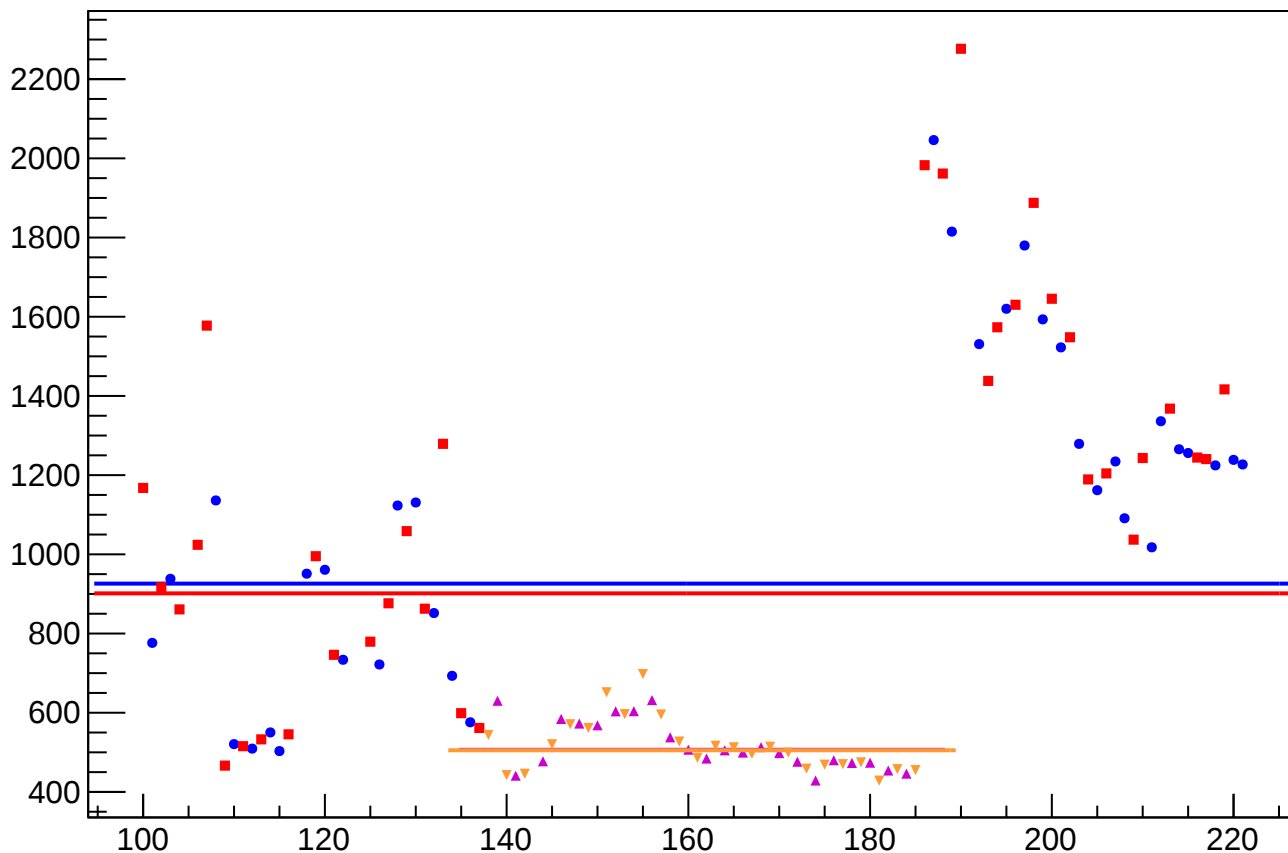
Right: -1.552+/-158.842 χ^2/NDF : 122.0/68

In: -154.791+/-107.053 χ^2/NDF :98.3/56

Out: -194.272+/-106.843 χ^2/NDF :125.6/58

All: -174.571+/-75.624 χ^2/NDF : 223.9/115

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 926.052+/-0.158 χ^2/NDF : 5031075.2/33

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

Right Out: 901.440+/-0.160 χ^2/NDF : 6355392.8/34

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

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

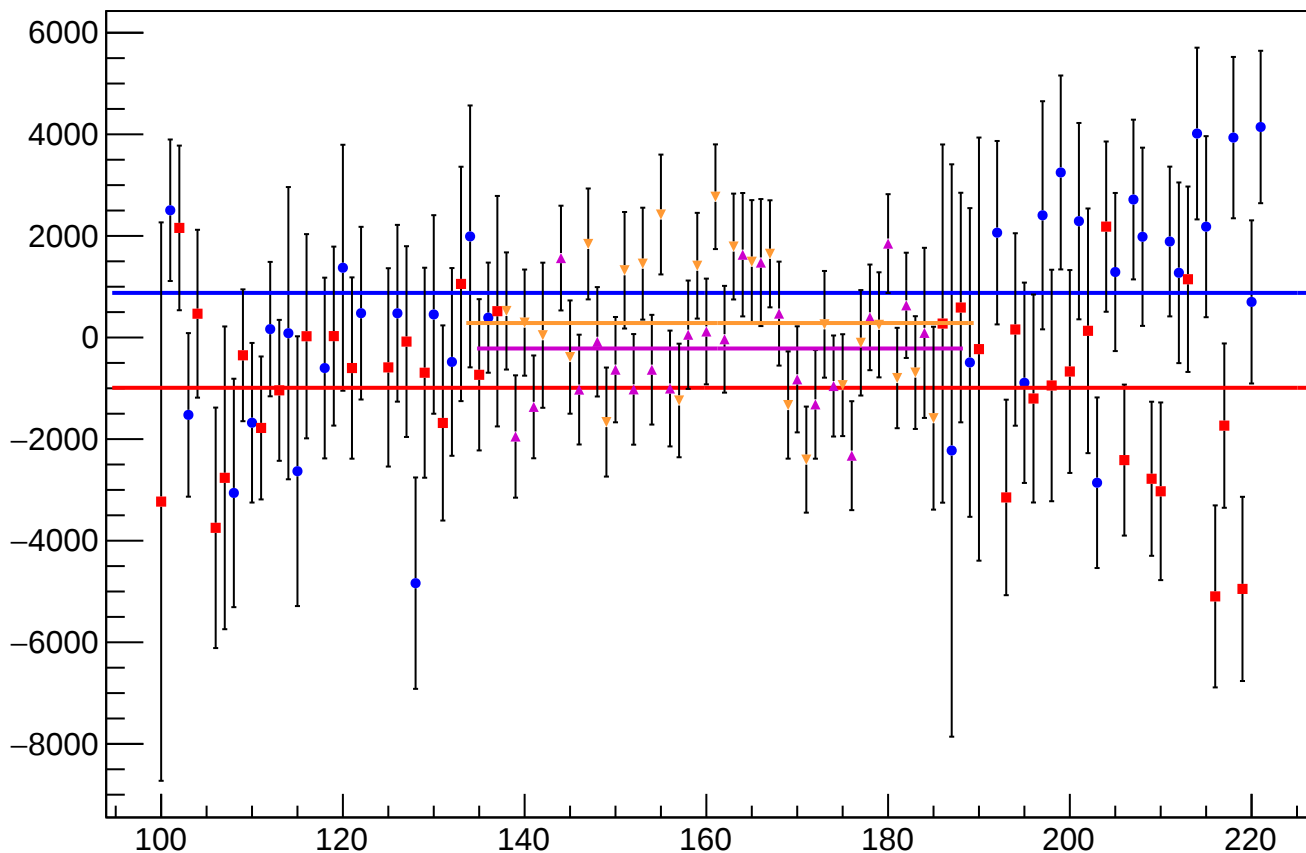
Right: 913.935+/-0.112 χ^2/NDF : 11398469.4/68

In: 603.152+/-0.076 χ^2/NDF : 10920502.4/56

Out: 593.481+/-0.076 χ^2/NDF : 11603118.4/58

All: 598.307+/-0.053 χ^2/NDF : 22531797.4/114

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 878.512 ± 302.904 χ^2/NDF : 44.8/33

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

Right Out: -989.872 ± 315.228 χ^2/NDF : 30.7/34

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

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

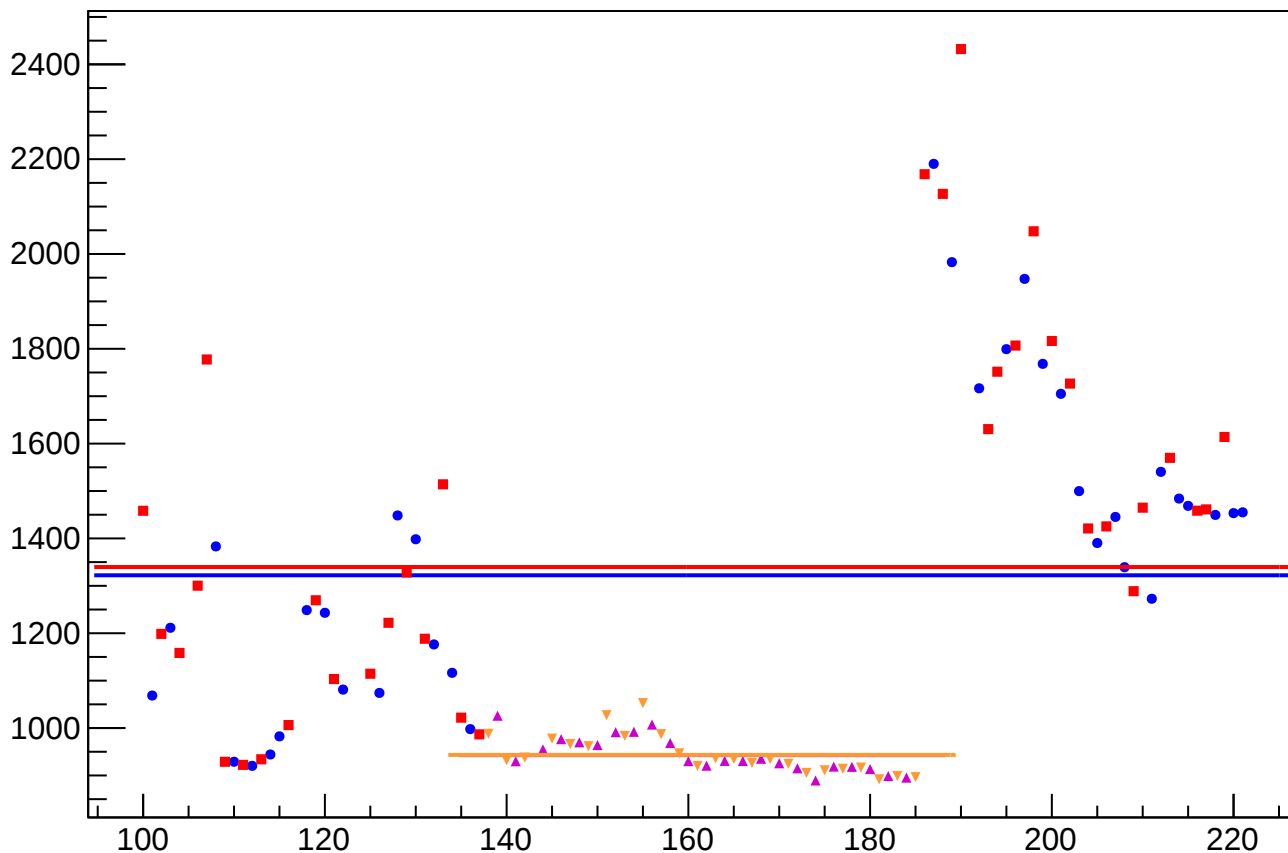
Right: -18.442 ± 218.412 χ^2/NDF : 93.8/68

In: 174.439 ± 180.931 χ^2/NDF : 77.6/56

Out: -143.613 ± 182.799 χ^2/NDF : 79.8/58

All: 17.046 ± 128.593 χ^2/NDF : 159.0/115

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1322.240+/-0.214 χ^2/NDF : 1597644.7/33

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

Right Out: 1339.670+/-0.223 χ^2/NDF : 2137984.0/34

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

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

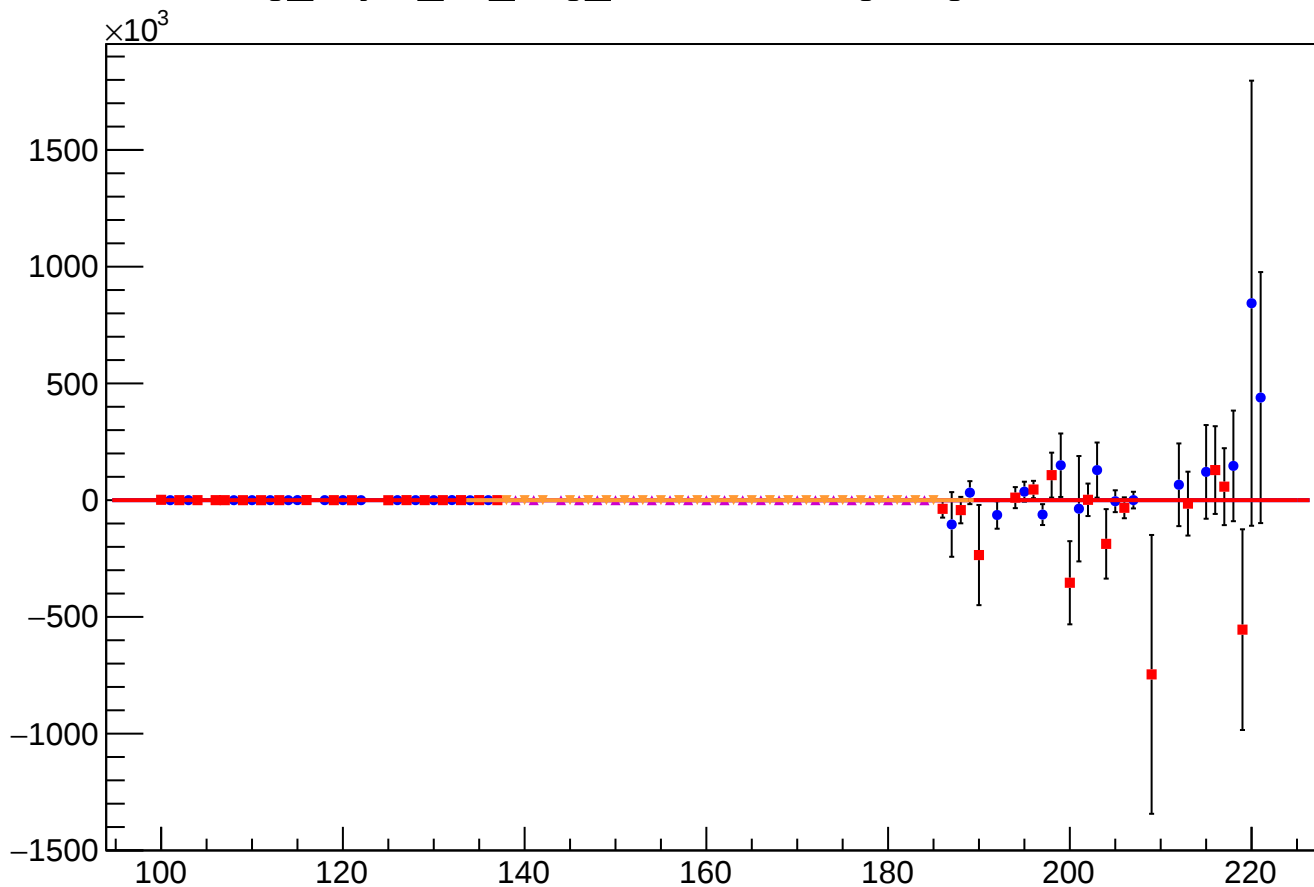
Right: 1330.608+/-0.154 χ^2/NDF : 3738807.8/68

In: 1078.264+/-0.128 χ^2/NDF : 3663331.2/56

Out: 1076.623+/-0.129 χ^2/NDF : 4296597.9/58

All: 1077.452+/-0.091 χ^2/NDF : 7960010.5/11

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.548 ± 30.032 χ^2/NDF : 25.5/30

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

Right Out: 31.726 ± 30.492 χ^2/NDF : 32.2/32

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

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

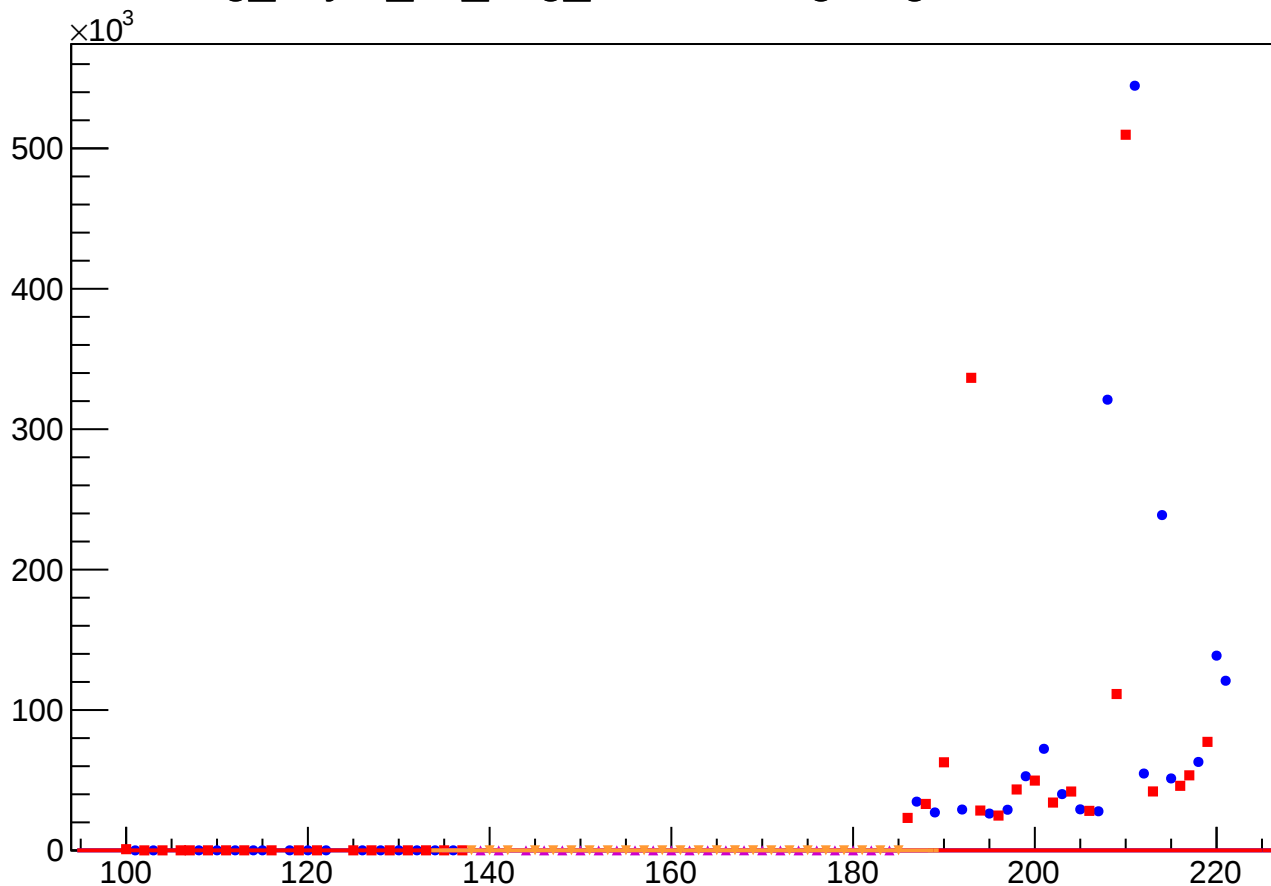
Right: 7.730 ± 21.397 χ^2/NDF : 59.0/63

In: -20.417 ± 17.527 χ^2/NDF : 48.1/53

Out: 12.995 ± 17.553 χ^2/NDF : 55.2/56

All: -3.736 ± 12.403 χ^2/NDF : 105.1/110

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.144 $\pm$ 0.021 χ^2 /NDF: 7120930.0/33

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

Right Out: 79.462 $\pm$ 0.022 χ^2 /NDF: 6633733.1/34

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

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

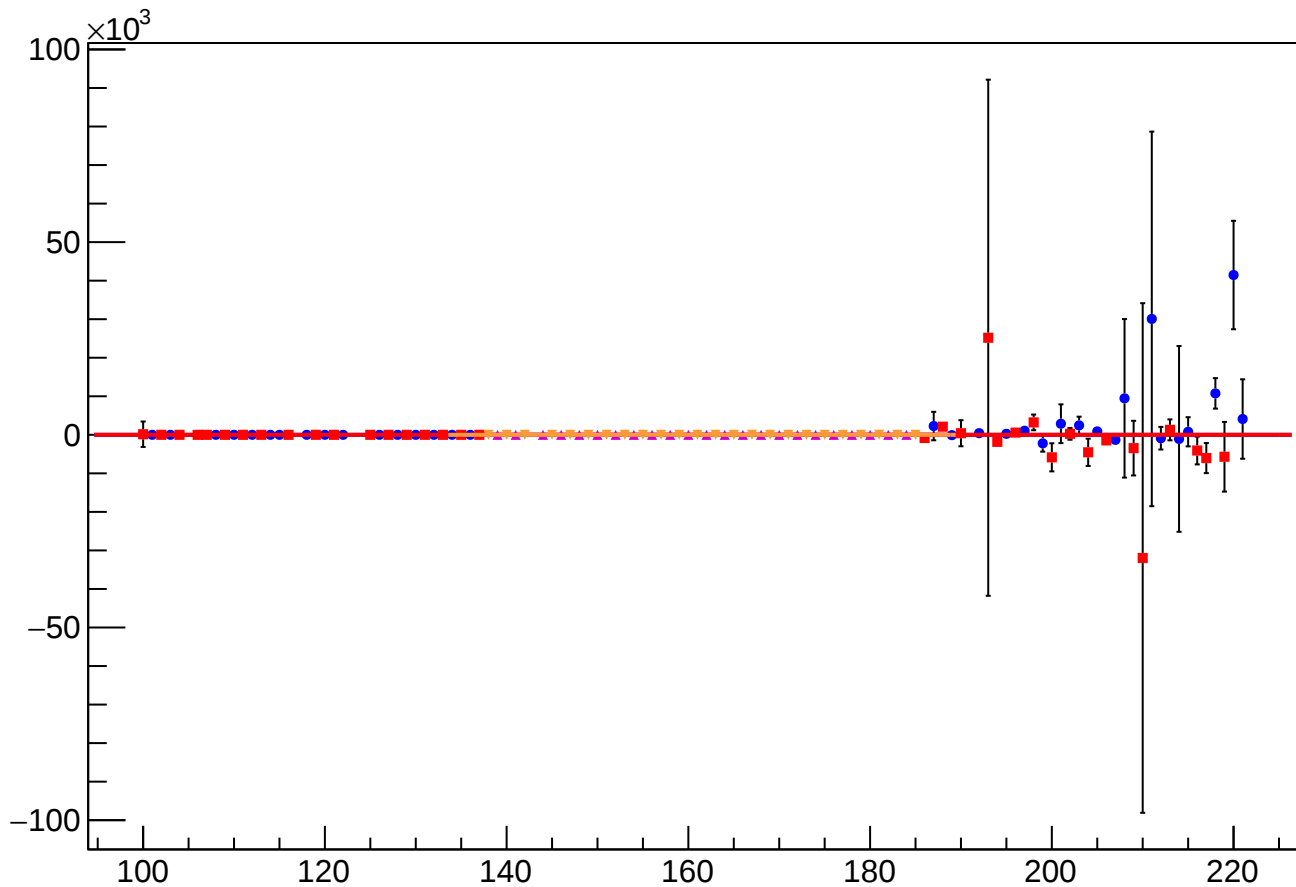
Right: 77.778 $\pm$ 0.015 χ^2 /NDF: 13766682.7/68

In: 85.014 $\pm$ 0.012 χ^2 /NDF: 7894019.5/56

Out: 86.302 $\pm$ 0.012 χ^2 /NDF: 7250545.3/58

All: 85.657 $\pm$ 0.009 χ^2 /NDF: 15149956.0/115

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289+/-0.502 χ^2/NDF : 47.8/33

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

Right Out: 0.038+/-0.525 χ^2/NDF : 33.8/34

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

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

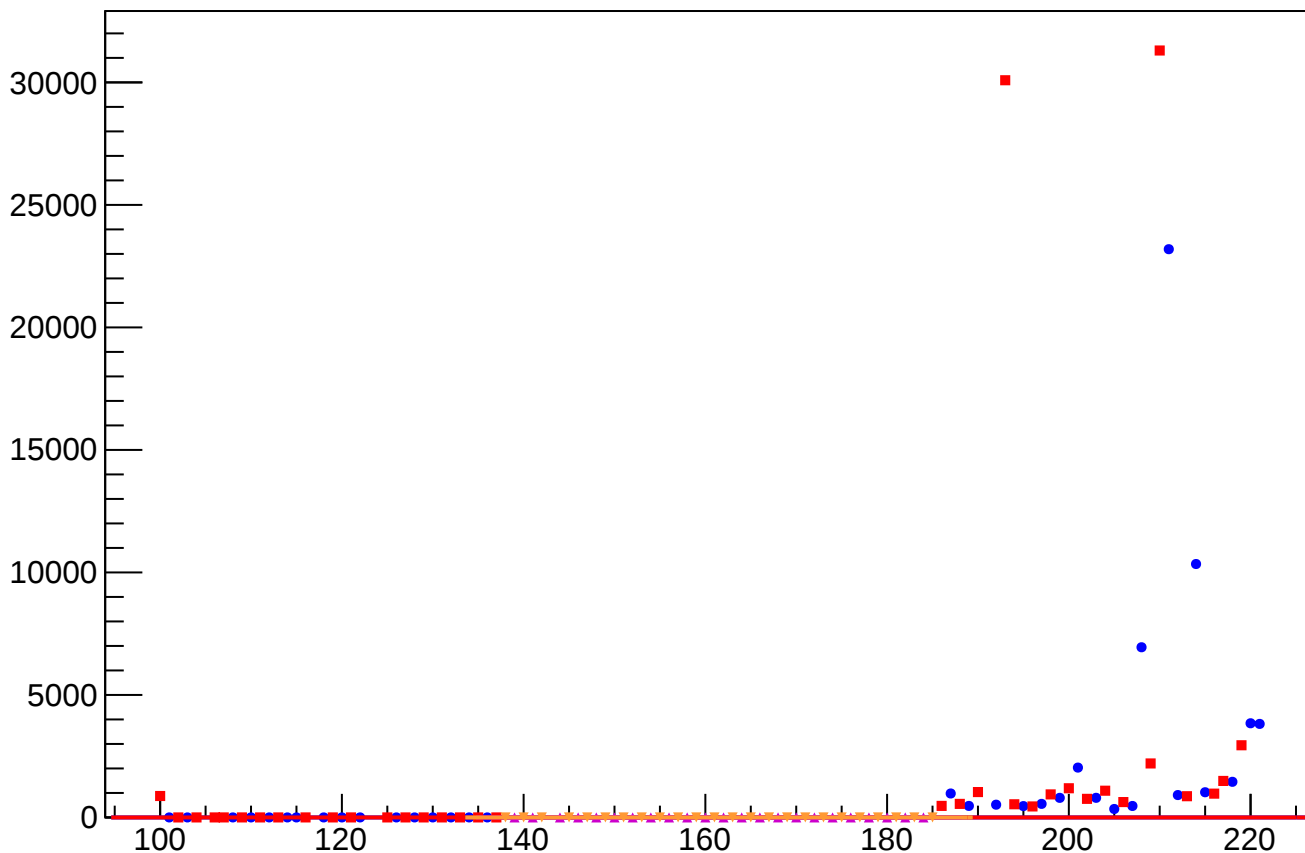
Right: -0.133+/-0.363 χ^2/NDF : 81.8/68

In: -0.433+/-0.306 χ^2/NDF : 74.3/56

Out: 0.096+/-0.306 χ^2/NDF : 55.1/58

All: -0.168+/-0.217 χ^2/NDF : 130.9/115

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 7412897.0/33

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

Right Out: 1.260+/-0.000 χ^2/NDF : 7465685.4/34

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

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

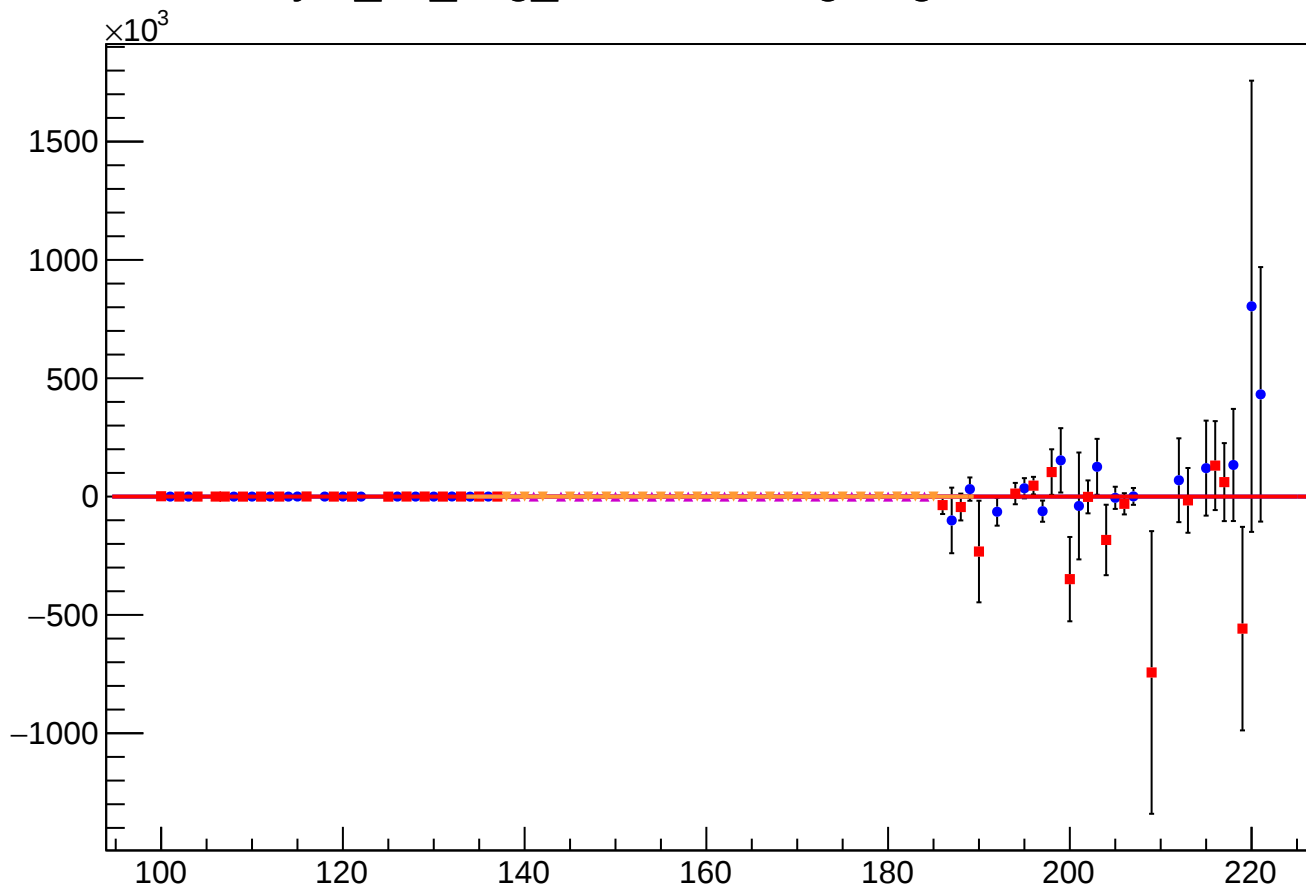
Right: 1.204+/-0.000 χ^2/NDF : 14921968.3/68

In: 1.341+/-0.000 χ^2/NDF : 8856781.8/56

Out: 1.358+/-0.000 χ^2/NDF : 8558224.0/58

All: 1.350+/-0.000 χ^2/NDF : 17417970.1/115

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.485 ± 30.040 χ^2/NDF : 25.6/30

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

Right Out: 32.007 ± 30.500 χ^2/NDF : 31.9/32

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

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

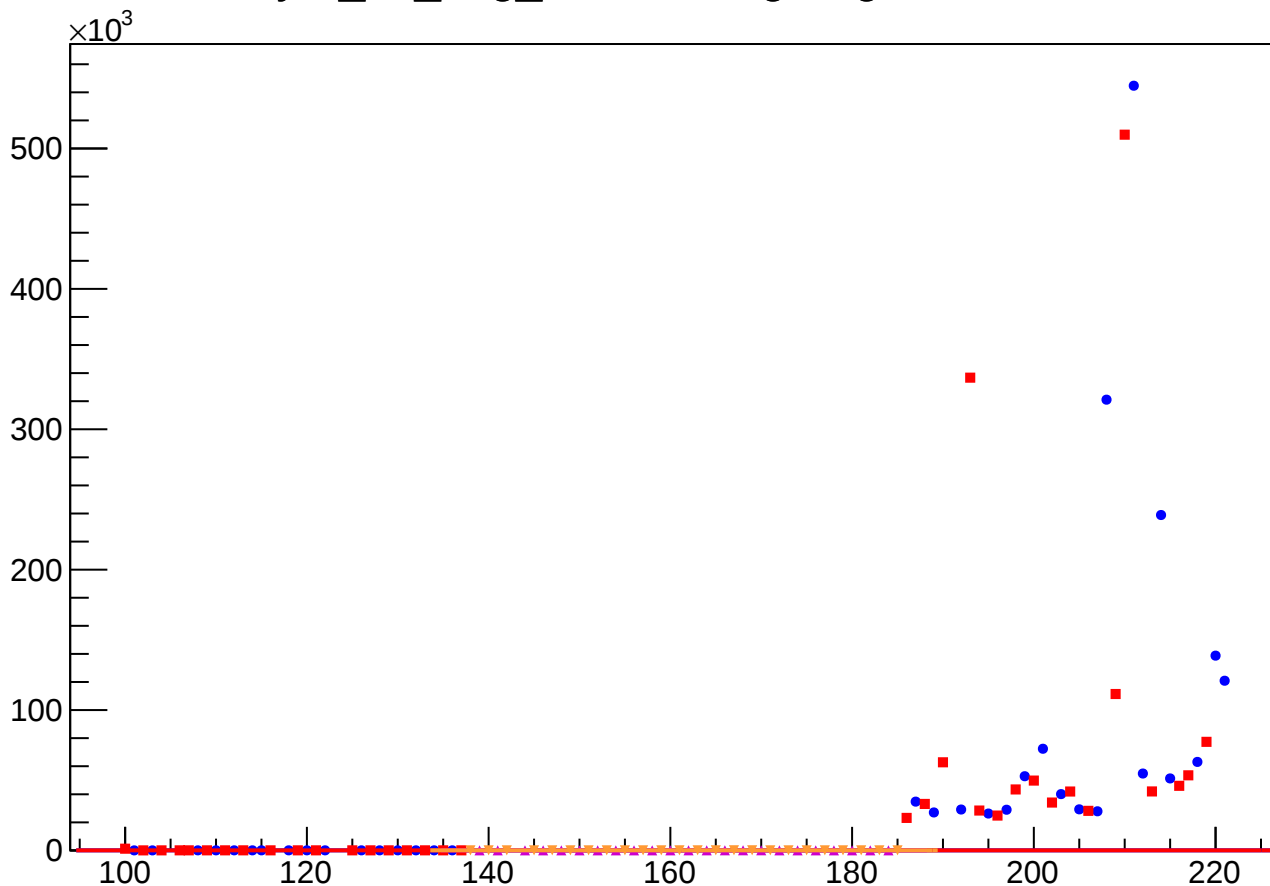
Right: 8.408 ± 21.402 χ^2/NDF : 58.7/63

In: -19.734 ± 17.532 χ^2/NDF : 47.9/53

Out: 12.946 ± 17.559 χ^2/NDF : 54.6/56

All: -3.419 ± 12.407 χ^2/NDF : 104.3/110

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.164 $\pm$ 0.021 χ^2 /NDF: 7121059.9/33

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

Right Out: 79.465 $\pm$ 0.022 χ^2 /NDF: 6640364.9/34

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

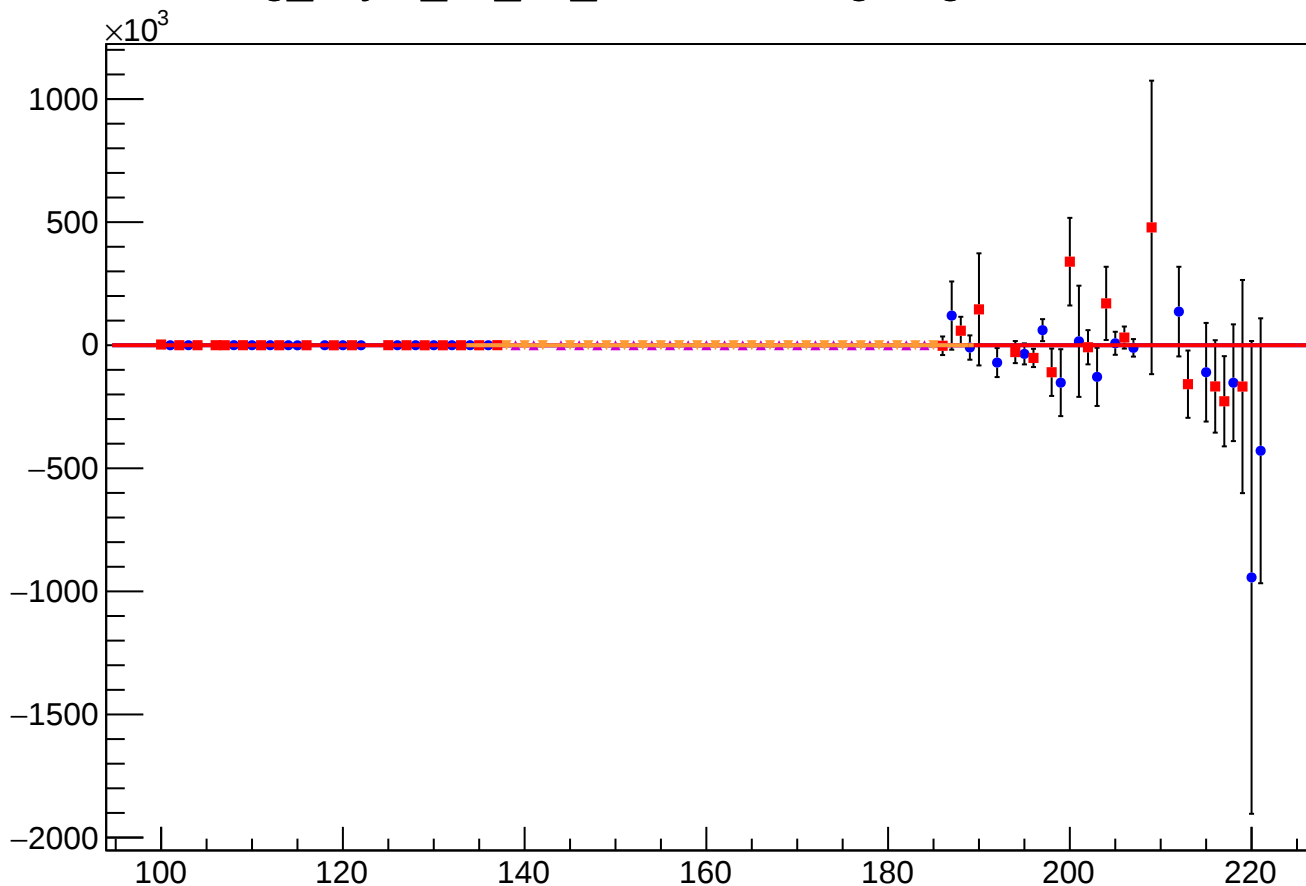
Right: 77.789 $\pm$ 0.015 χ^2 /NDF: 13773319.4/68

In: 85.038 $\pm$ 0.012 χ^2 /NDF: 7895152.2/56

Out: 86.321 $\pm$ 0.012 χ^2 /NDF: 7258520.1/58

All: 85.678 $\pm$ 0.009 χ^2 /NDF: 15159017.5/115

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.084 ± 30.012 $\chi^2/\text{NDF}: 24.2/30$

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

Right Out: -25.803 ± 30.473 $\chi^2/\text{NDF}: 27.8/32$

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

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

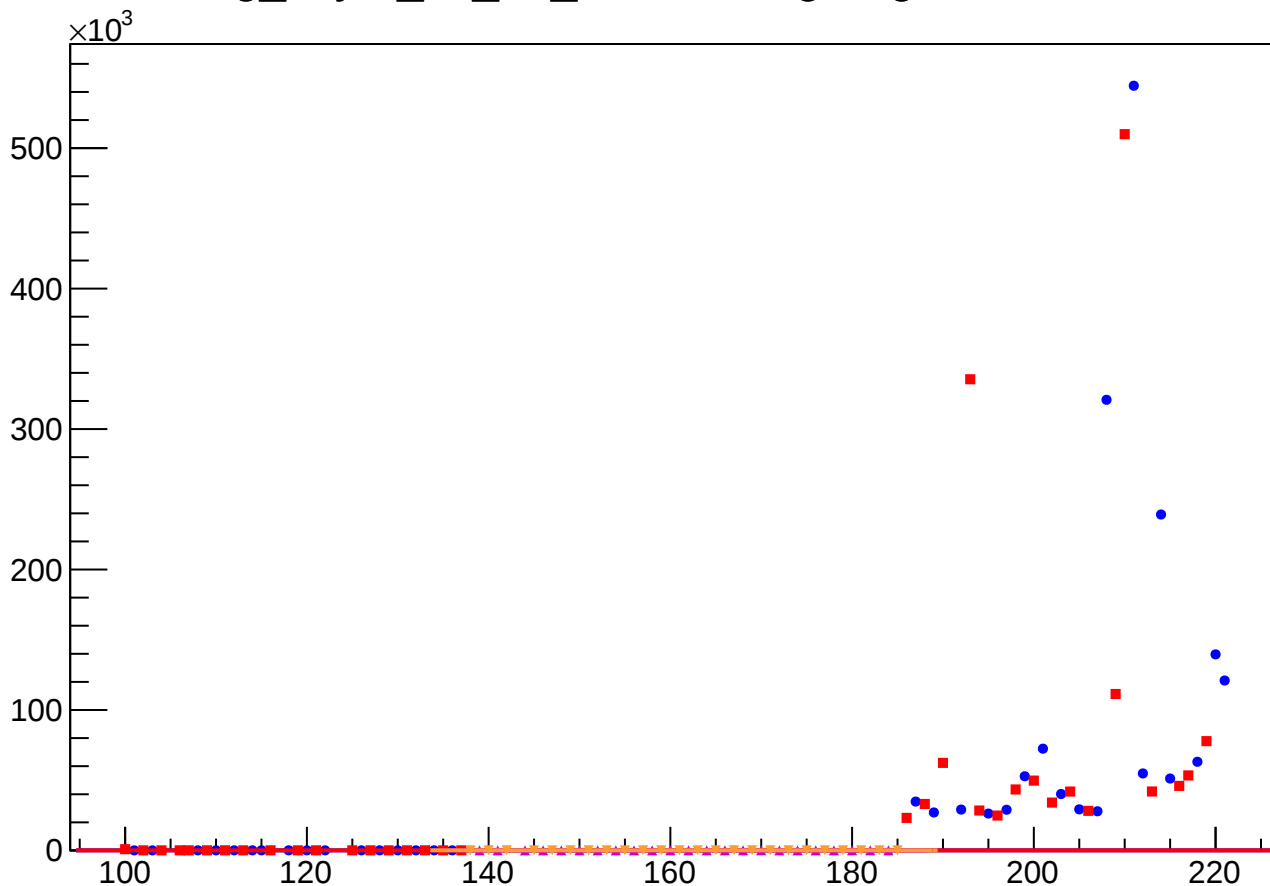
Right: -8.601 ± 21.383 $\chi^2/\text{NDF}: 52.7/63$

In: 31.370 ± 17.528 $\chi^2/\text{NDF}: 56.6/53$

Out: 1.646 ± 17.552 $\chi^2/\text{NDF}: 46.2/56$

All: 16.528 ± 12.403 $\chi^2/\text{NDF}: 104.2/110$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.094 $\pm$ 0.021 χ^2 /NDF: 7120798.2/33

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

Right Out: 79.413 $\pm$ 0.022 χ^2 /NDF: 6633089.1/34

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

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

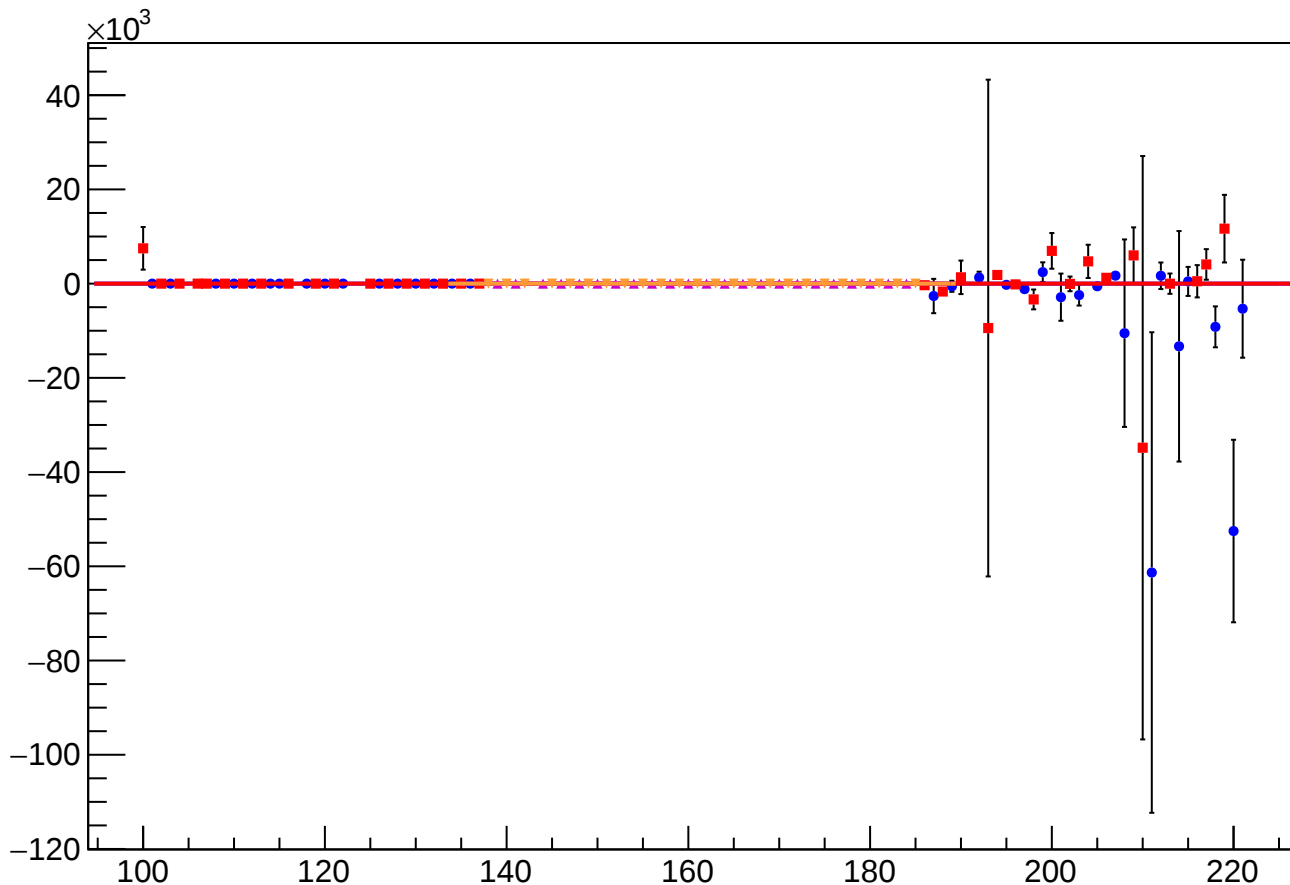
Right: 77.728 $\pm$ 0.015 χ^2 /NDF: 13765927.9/68

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 7899795.6/56

Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 7250840.7/58

All: 85.652 $\pm$ 0.009 χ^2 /NDF: 15155989.7/115

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 39.9/33$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 36.2/34$

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

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

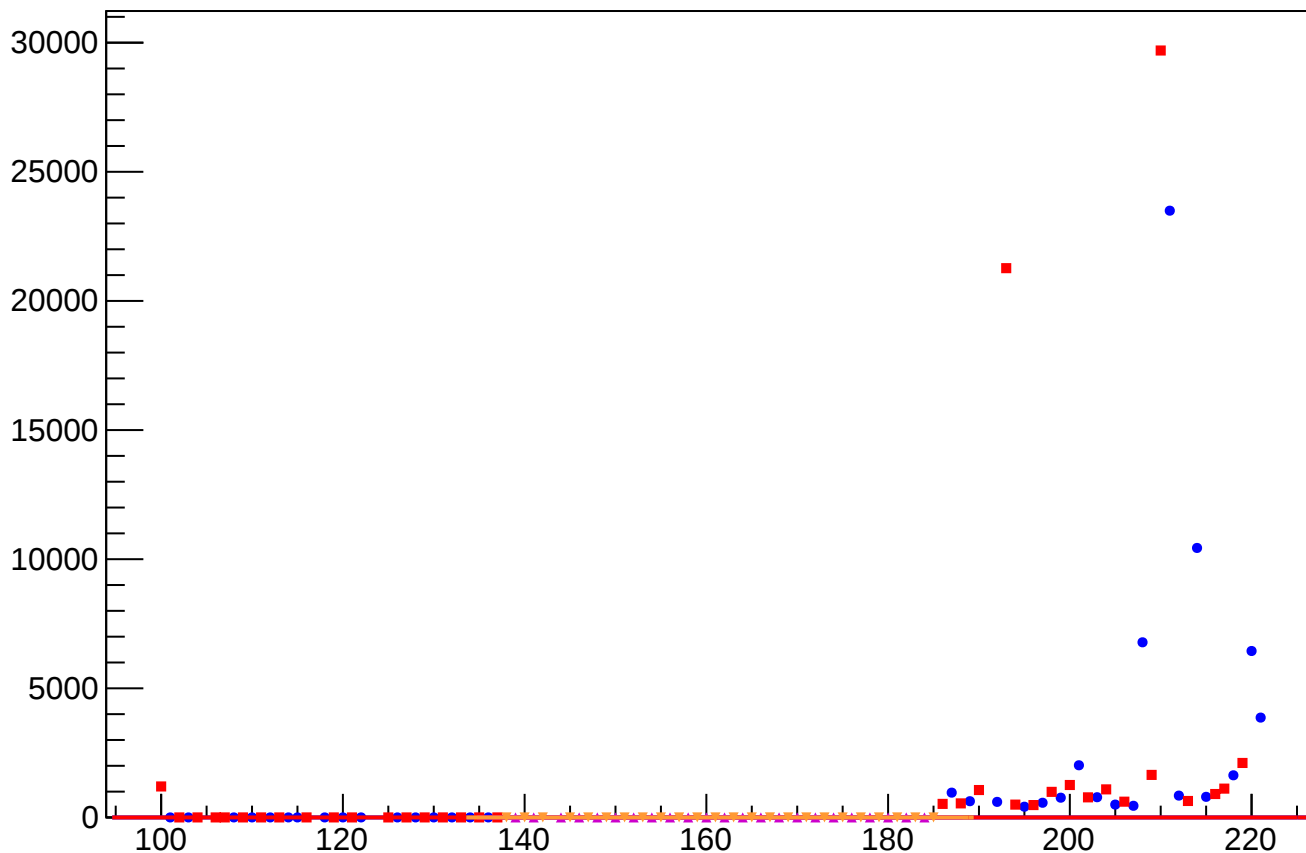
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 76.6/68$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 62.4/56$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 58.6/58$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 122.2/115$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7729060.8/33

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

Right Out: 1.317+/-0.000 χ^2/NDF : 7259880.0/34

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

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

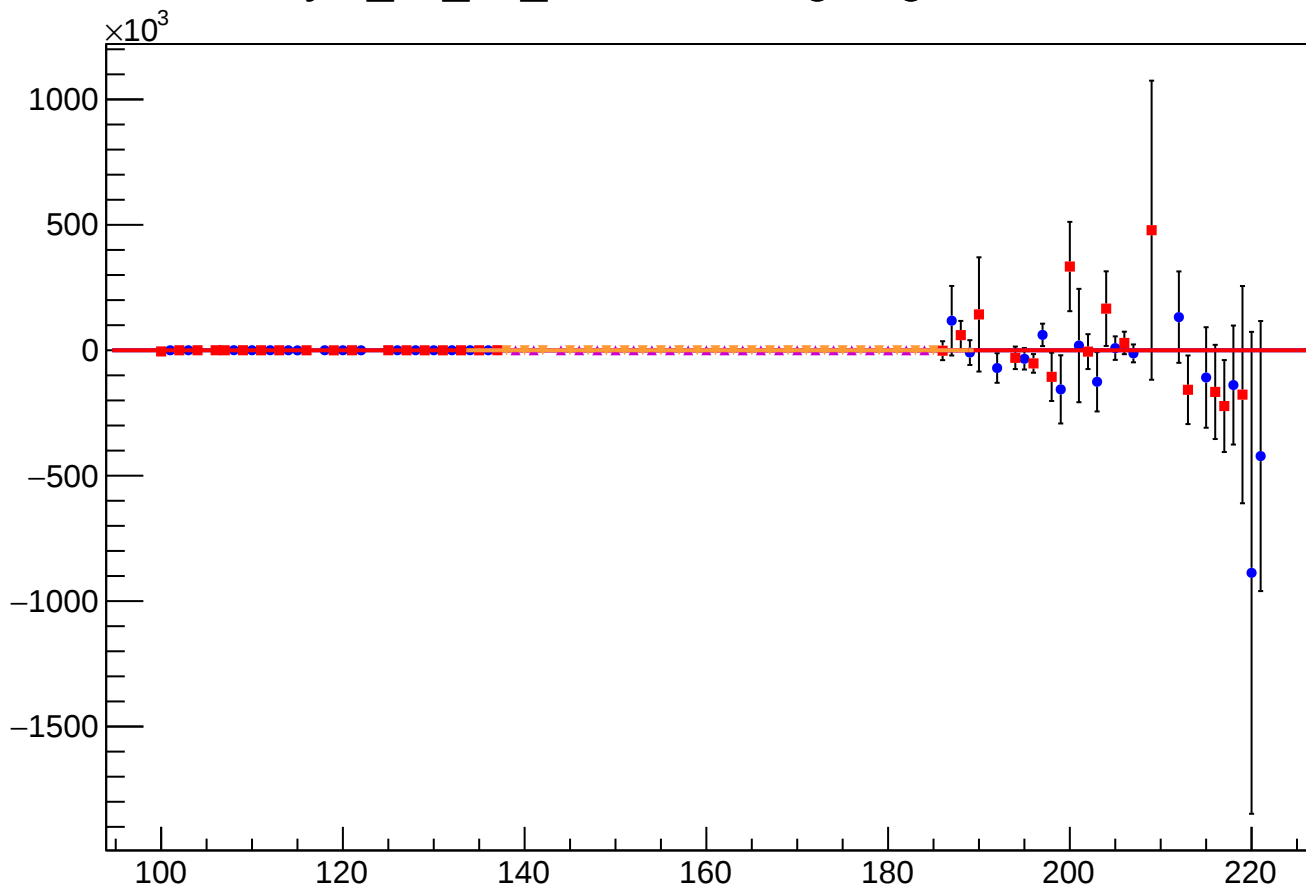
Right: 1.274+/-0.000 χ^2/NDF : 15012125.9/68

In: 1.382+/-0.000 χ^2/NDF : 9013932.5/56

Out: 1.419+/-0.000 χ^2/NDF : 8518664.8/58

All: 1.400+/-0.000 χ^2/NDF : 17546228.4/115

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.377 ± 30.020 χ^2/NDF : 23.9/30

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

Right Out: -26.413 ± 30.482 χ^2/NDF : 27.8/32

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

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

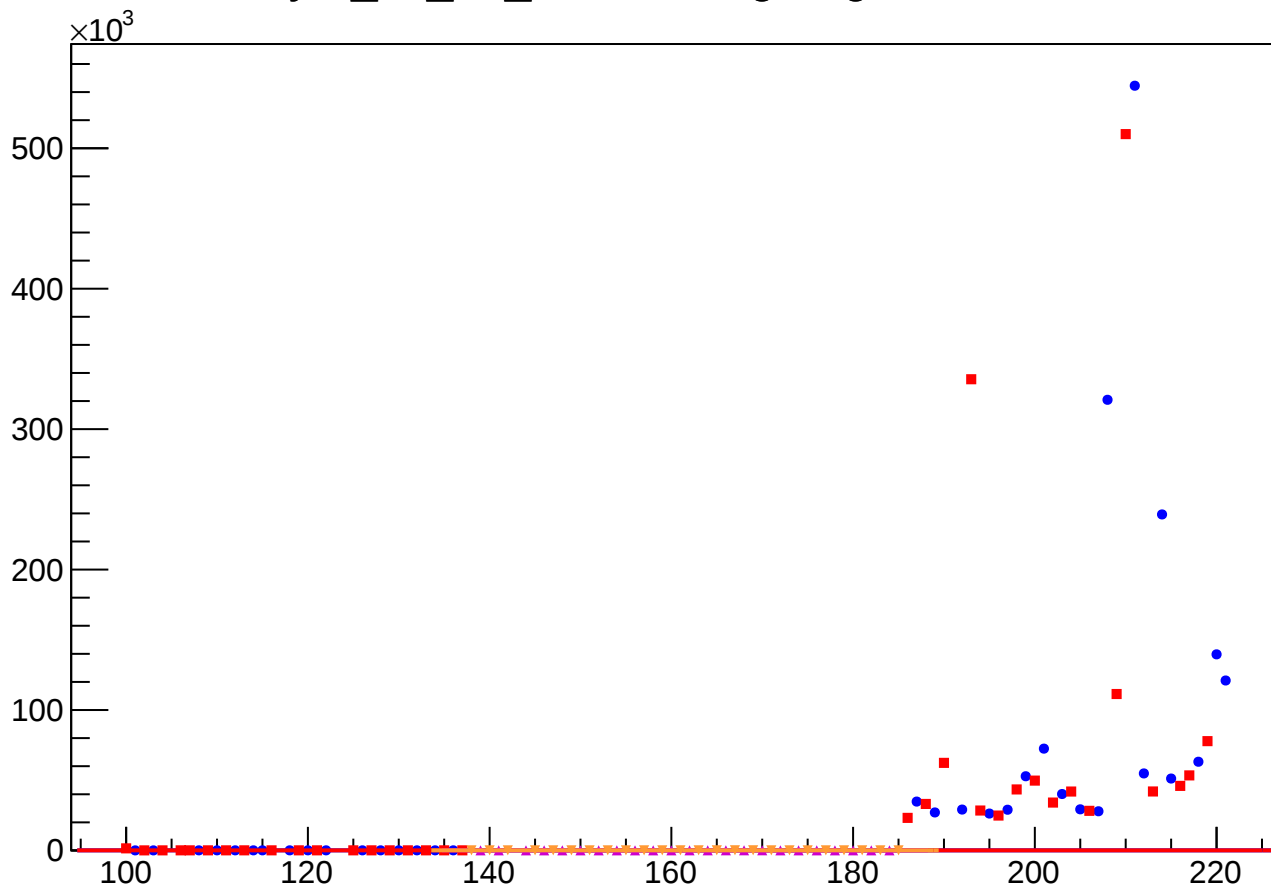
Right: -9.261 ± 21.389 χ^2/NDF : 52.2/63

In: 31.445 ± 17.533 χ^2/NDF : 55.9/53

Out: 1.774 ± 17.558 χ^2/NDF : 46.1/56

All: 16.630 ± 12.407 χ^2/NDF : 103.5/110

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.115 $\pm$ 0.021 χ^2 /NDF: 7120992.8/33

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

Right Out: 79.410 $\pm$ 0.022 χ^2 /NDF: 6642404.3/34

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

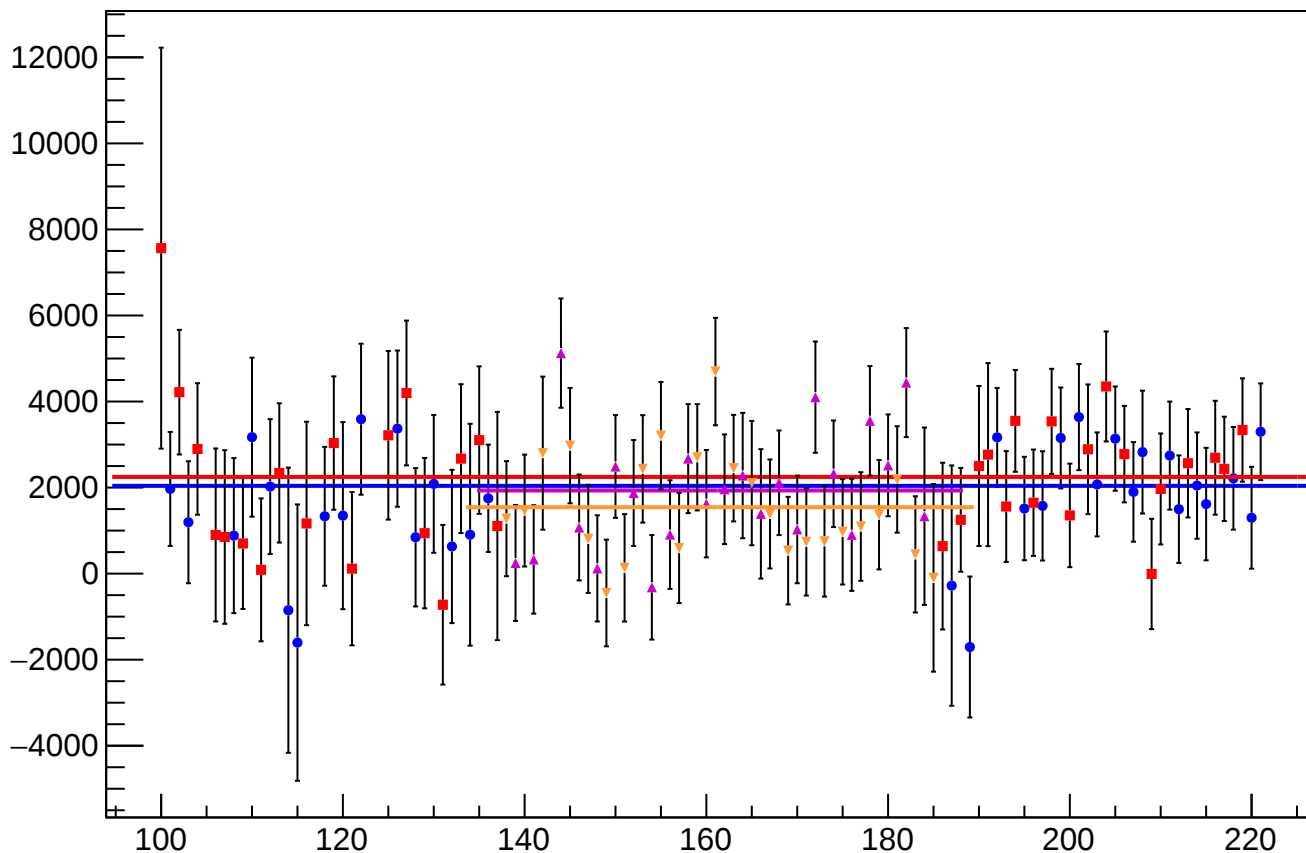
Right: 77.737 $\pm$ 0.015 χ^2 /NDF: 13775258.3/68

In: 85.036 $\pm$ 0.012 χ^2 /NDF: 7900892.5/56

Out: 86.312 $\pm$ 0.012 χ^2 /NDF: 7261727.3/58

All: 85.673 $\pm$ 0.009 χ^2 /NDF: 15167910.4/115

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2040.058 $\pm$ 245.059 χ^2/NDF : 19.4/33

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

Right Out: 2246.753 $\pm$ 249.943 χ^2/NDF : 26.2/35

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

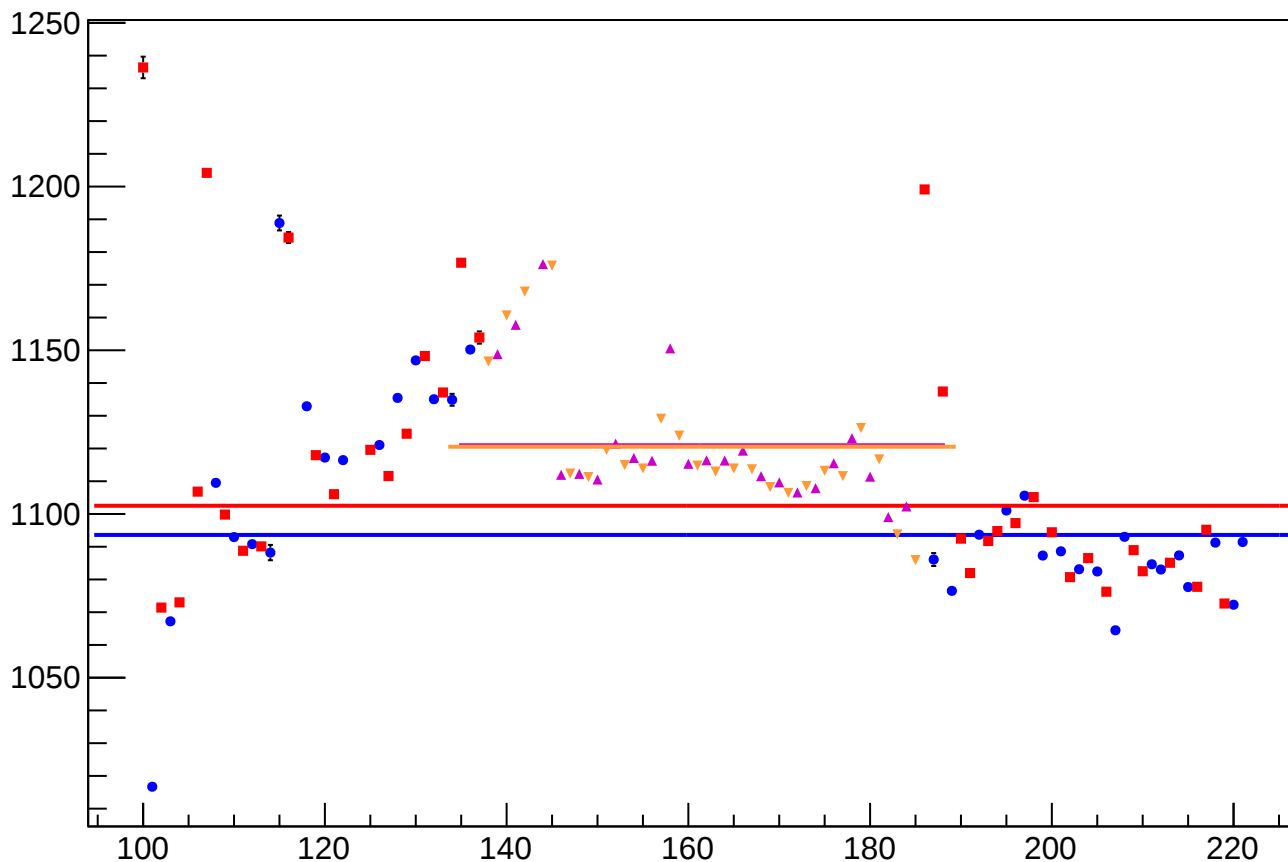
Right: 2141.366 $\pm$ 174.984 χ^2/NDF : 46.0/69

In: 1991.307 $\pm$ 180.852 χ^2/NDF : 46.5/56

Out: 1917.629 $\pm$ 182.235 χ^2/NDF : 49.9/59

All: 1954.749 $\pm$ 128.368 χ^2/NDF : 96.5/116

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1093.601 $\pm$ 0.173 χ^2 /NDF: 24276.4/33

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

Right Out: 1102.511 $\pm$ 0.177 χ^2 /NDF: 30496.5/35

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

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

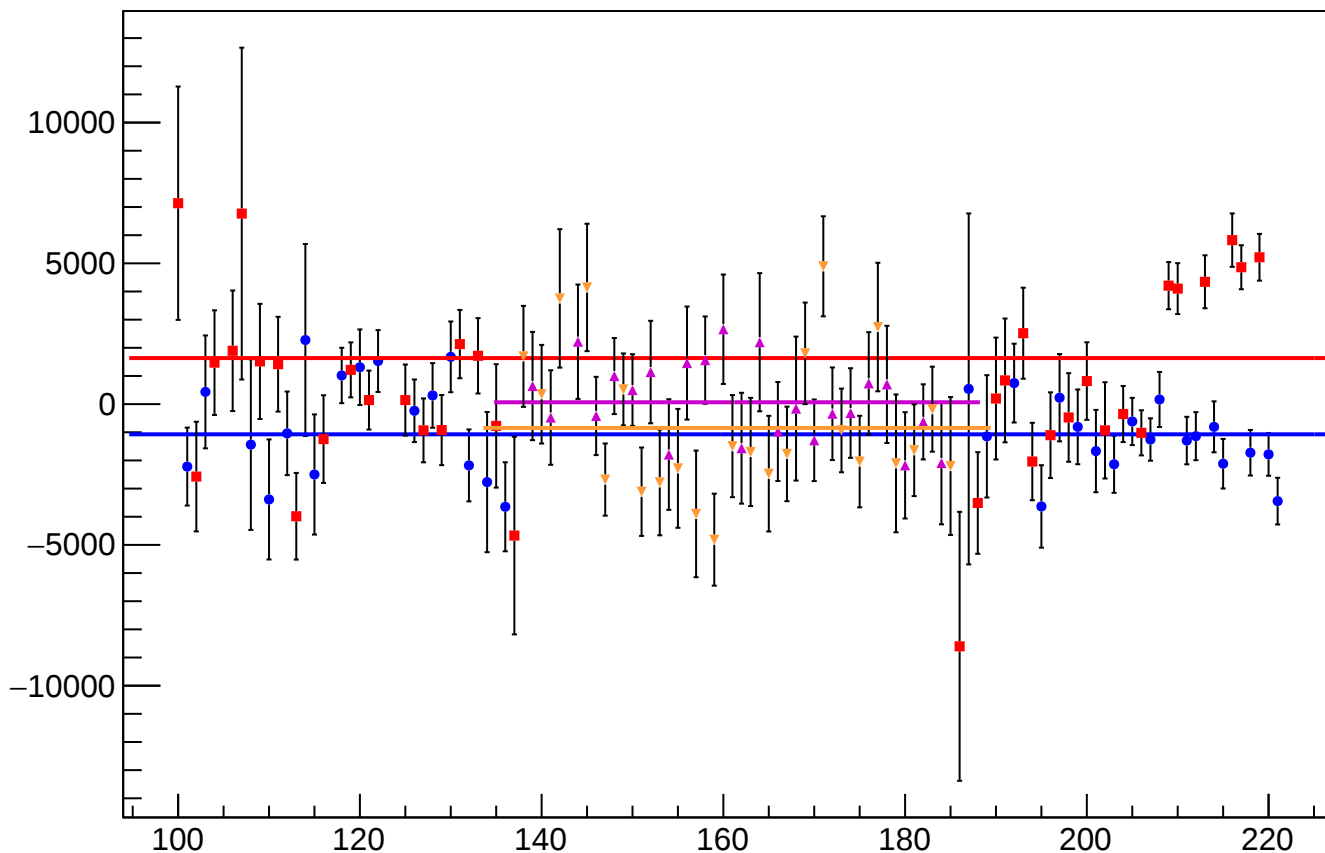
Right: 1097.968 $\pm$ 0.124 χ^2 /NDF: 56068.9/69

In: 1106.073 $\pm$ 0.128 χ^2 /NDF:45295.2/56

Out: 1110.957 $\pm$ 0.129 χ^2 /NDF:45625.0/59

All: 1108.497 $\pm$ 0.091 χ^2 /NDF: 91644.0/116

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -1072.544 ± 197.918 χ^2/NDF : 47.9/33

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

Right Out: 1635.145 ± 214.383 χ^2/NDF : 165.2/35

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

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

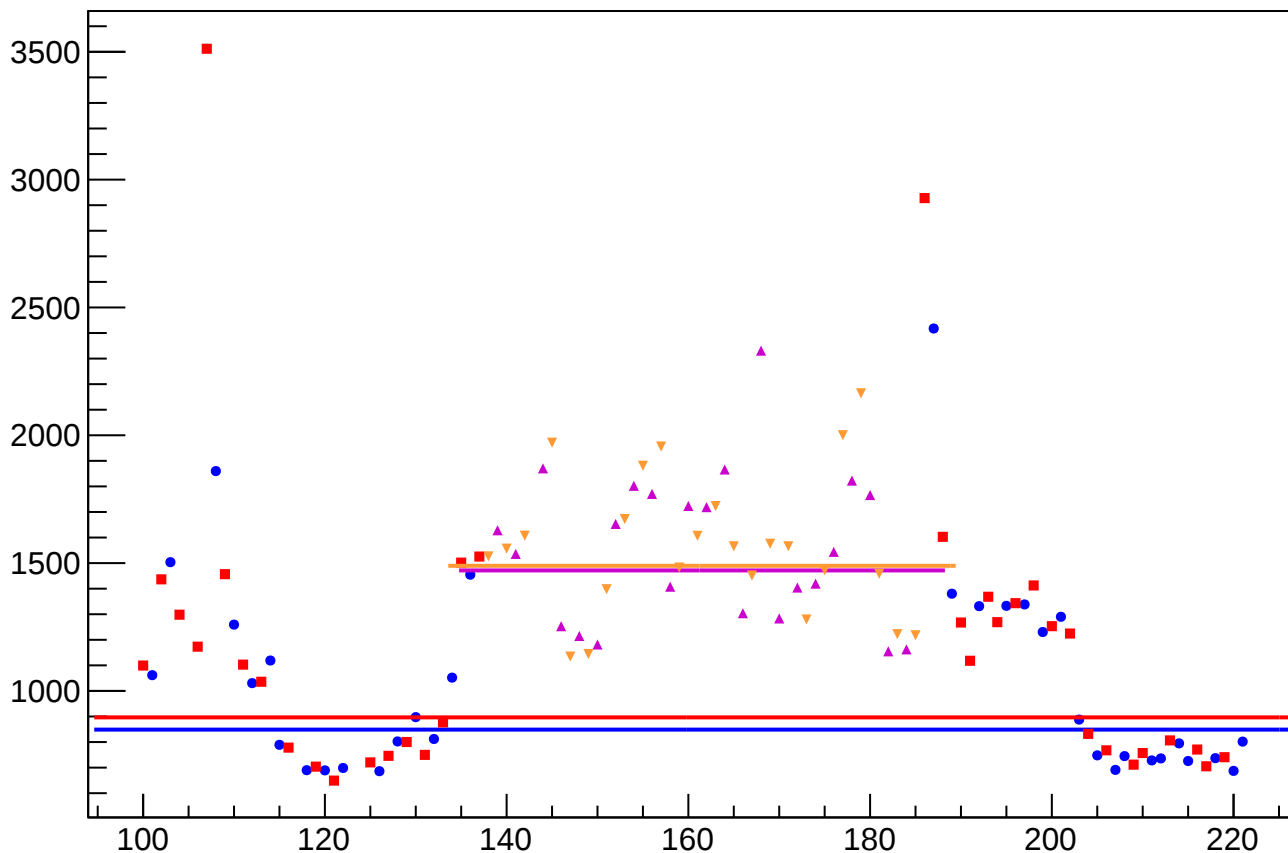
Right: 173.342 ± 145.422 χ^2/NDF : 299.2/69

In: -806.978 ± 173.299 χ^2/NDF : 67.7/56

Out: 988.893 ± 184.348 χ^2/NDF : 243.3/59

All: 35.529 ± 126.266 χ^2/NDF : 361.4/116

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 848.701+/-0.140 χ^2/NDF : 2725971.0/33

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

Right Out: 896.567+/-0.152 χ^2/NDF : 3517888.3/35

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

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

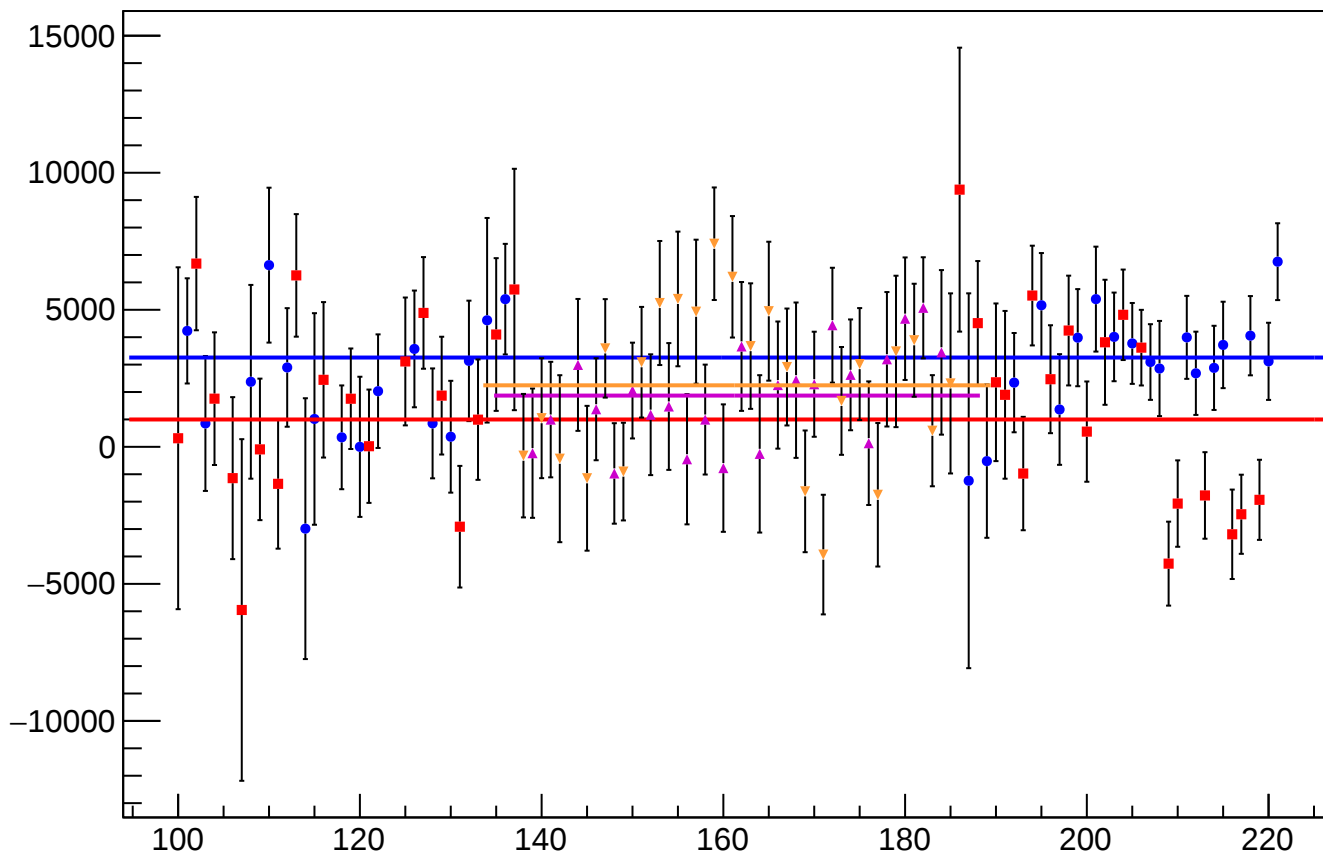
Right: 870.726+/-0.103 χ^2/NDF : 6297686.1/69

In: 993.978+/-0.123 χ^2/NDF : 8450097.9/56

Out: 1051.069+/-0.130 χ^2/NDF : 8513646.1/59

All: 1020.762+/-0.089 χ^2/NDF : 17065574.8/118

asym_usl_mean vs Slug, Sign Corrected



Right In: 3258.072 $\pm$ 327.589 χ^2 /NDF: 27.1/33

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

Right Out: 997.915 $\pm$ 345.799 χ^2 /NDF: 86.0/35

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

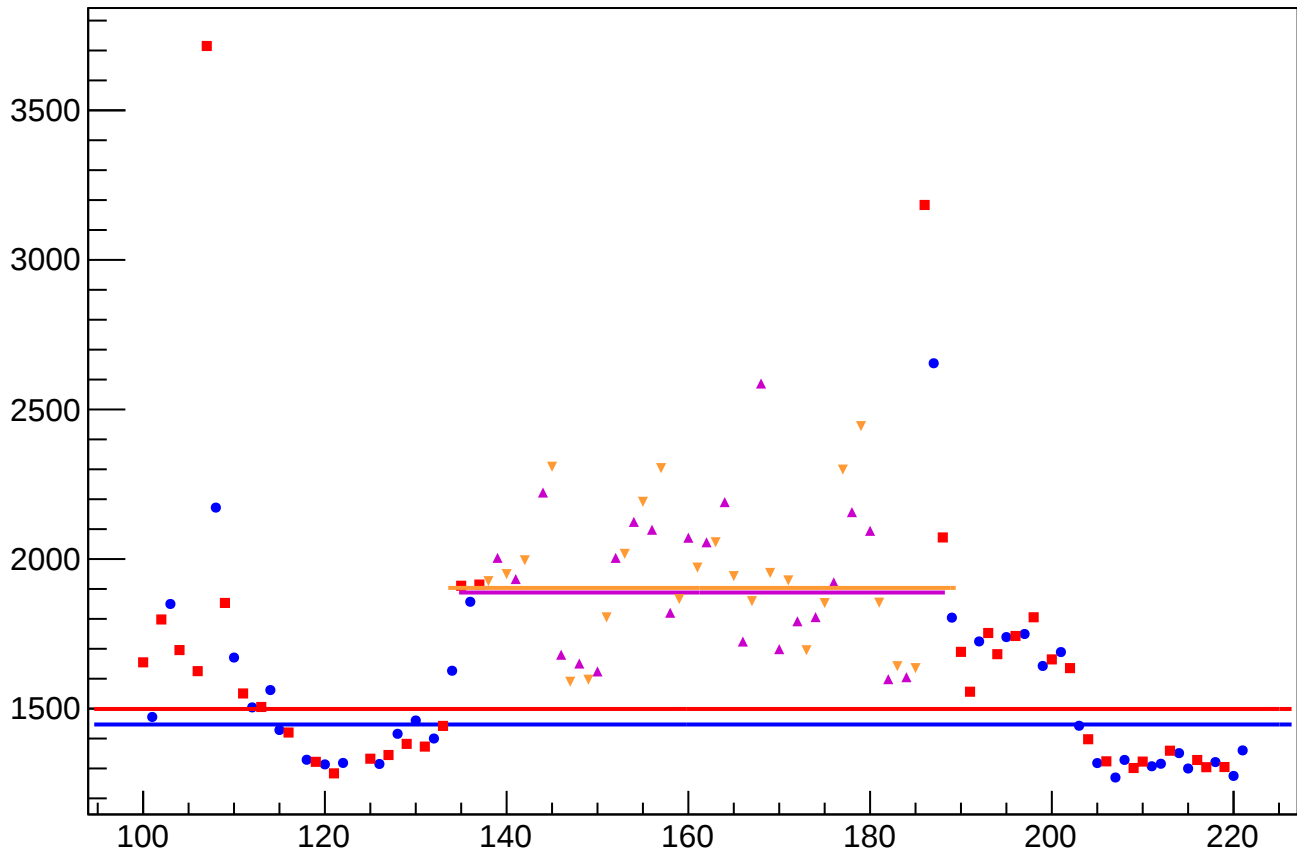
Right: 2189.068 $\pm$ 237.818 χ^2 /NDF: 135.6/69

In: 2784.755 $\pm$ 265.945 χ^2 /NDF:48.1/56

Out: 1452.418 $\pm$ 275.638 χ^2 /NDF:129.3/59

All: 2142.423 $\pm$ 191.387 χ^2 /NDF: 189.5/116

asym_usl_rms vs Slug, Sign Corrected



Right In: 1446.981 $\pm$ 0.232 χ^2 /NDF: 728198.3/33

Left Out: 1903.581 $\pm$ 0.323 χ^2 /NDF: 461788.9/23

Right Out: 1498.878 $\pm$ 0.245 χ^2 /NDF: 1186257.5/35

Left In: 1888.121 $\pm$ 0.322 χ^2 /NDF: 504568.6/22

Left: 1895.834 $\pm$ 0.228 χ^2 /NDF: 967507.1/46

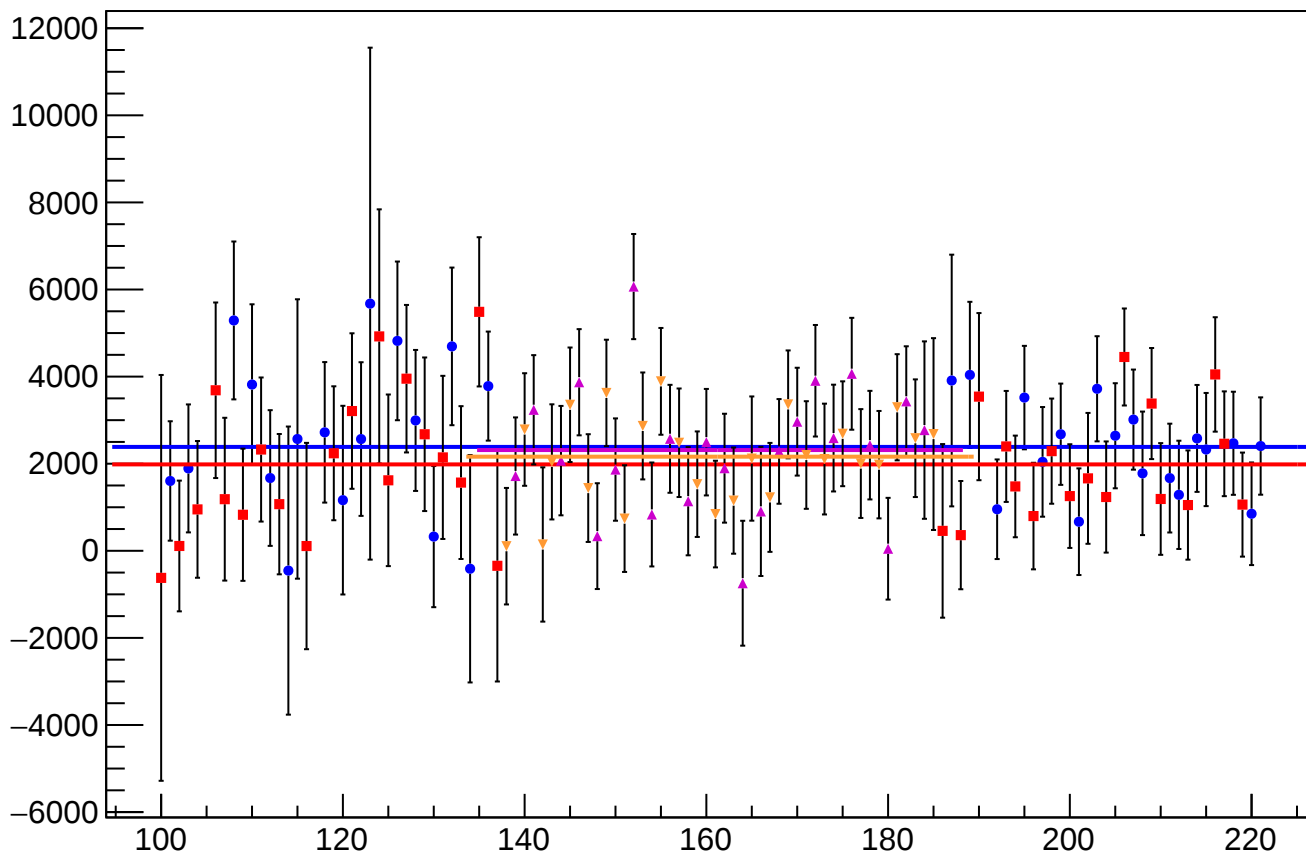
Right: 1471.527 $\pm$ 0.168 χ^2 /NDF: 1938196.5/69

In: 1597.383 $\pm$ 0.188 χ^2 /NDF: 2469281.1/56

Out: 1646.442 $\pm$ 0.195 χ^2 /NDF: 2646894.8/59

All: 1621.035 $\pm$ 0.135 χ^2 /NDF: 5148988.5/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2385.700 $\pm$ 244.802 χ^2 /NDF: 23.2/34

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

Right Out: 1984.123 $\pm$ 250.496 χ^2 /NDF: 28.1/35

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

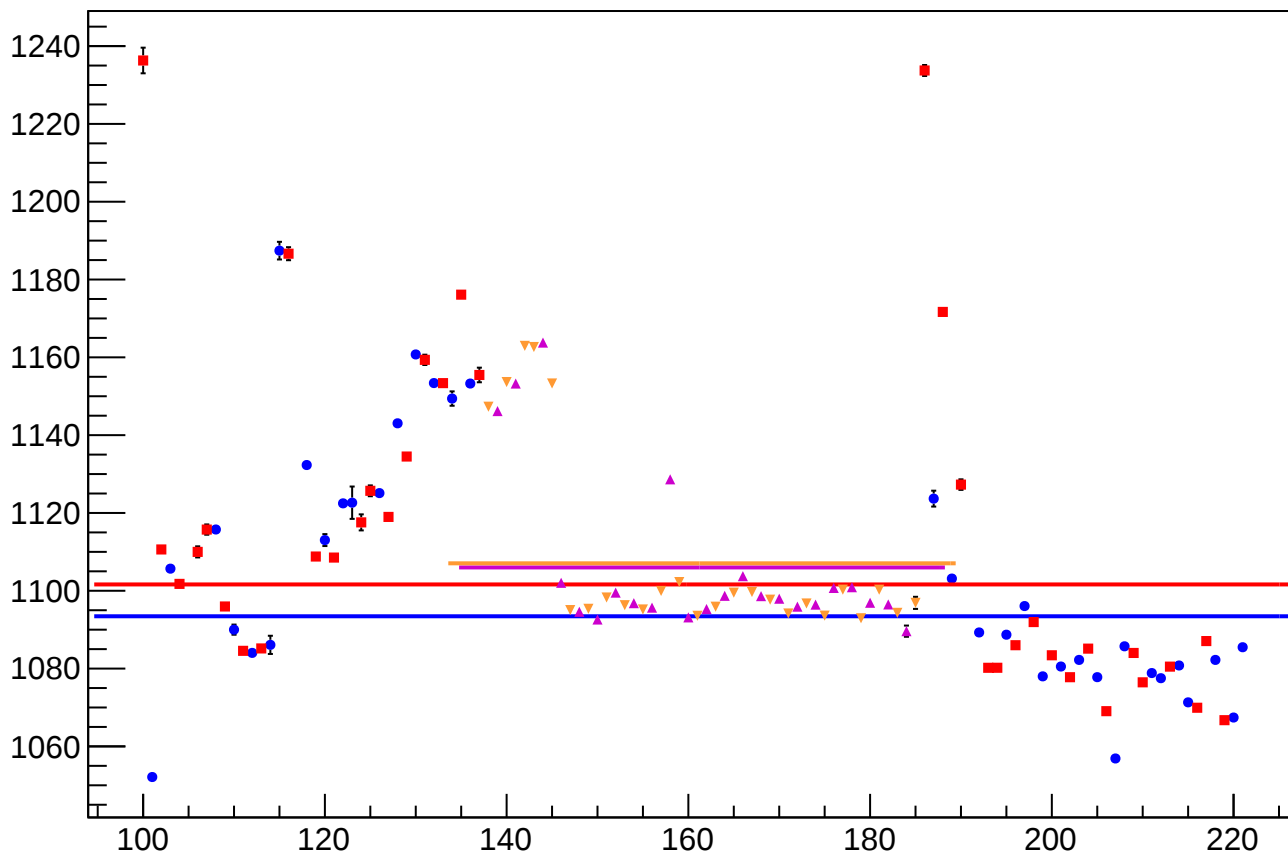
Right: 2189.528 $\pm$ 175.080 χ^2 /NDF: 52.7/70

In: 2352.381 $\pm$ 179.639 χ^2 /NDF:54.5/57

Out: 2070.325 $\pm$ 179.559 χ^2 /NDF:43.4/60

All: 2211.289 $\pm$ 126.996 χ^2 /NDF: 99.2/118

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1093.445 $\pm$ 0.173 χ^2 /NDF: 25756.9/34

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

Right Out: 1101.628 $\pm$ 0.177 χ^2 /NDF: 39579.0/35

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

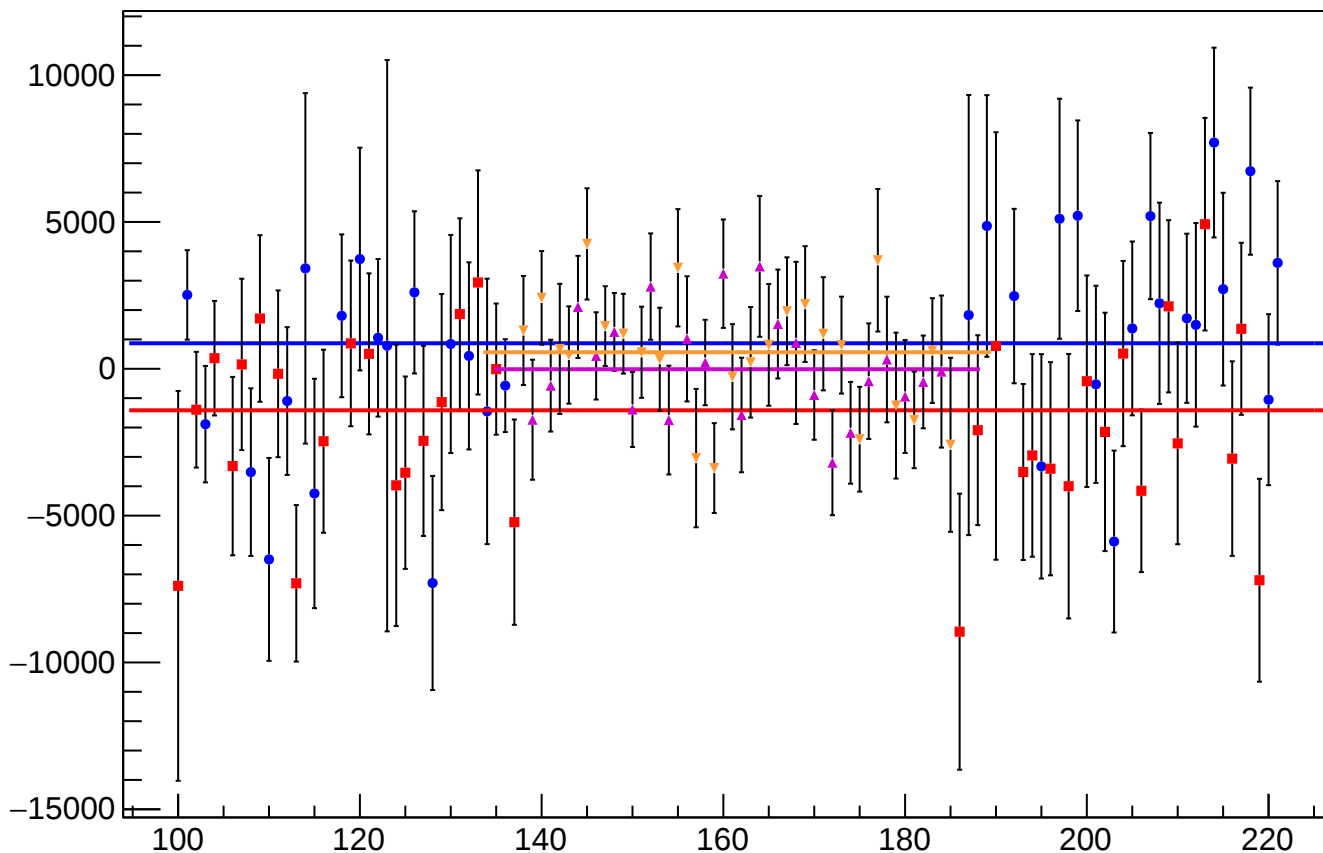
Right: 1097.442 $\pm$ 0.124 χ^2 /NDF: 66427.5/70

In: 1099.238 $\pm$ 0.127 χ^2 /NDF:39734.8/57

Out: 1104.267 $\pm$ 0.127 χ^2 /NDF:55211.3/60

All: 1101.753 $\pm$ 0.090 χ^2 /NDF: 95730.4/118

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 869.327 $\pm$ 499.707 χ^2/NDF : 42.9/34

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

Right Out: -1413.442 $\pm$ 520.634 χ^2/NDF : 28.7/35

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

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

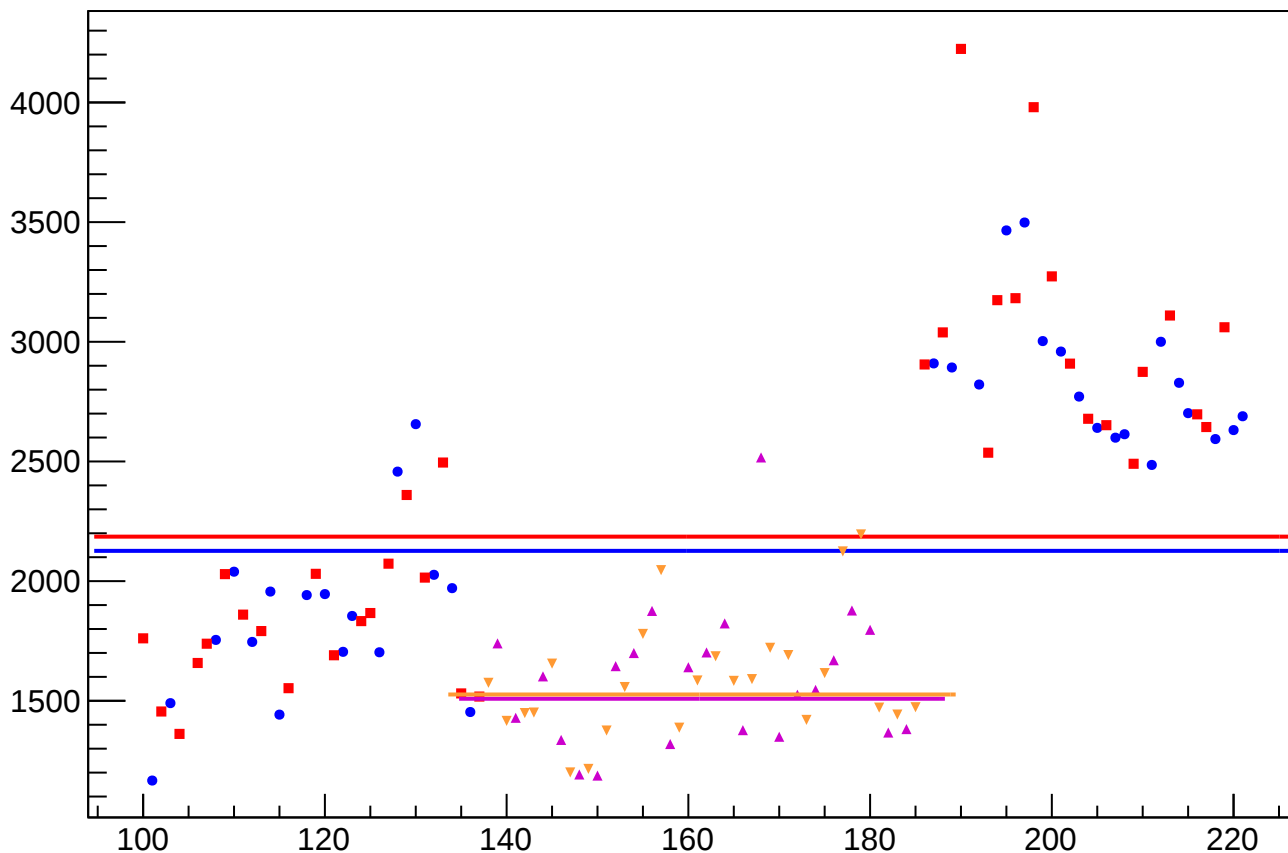
Right: -225.258 $\pm$ 360.517 χ^2/NDF : 81.6/70

In: 294.363 $\pm$ 295.720 χ^2/NDF : 65.1/57

Out: -78.287 $\pm$ 296.607 χ^2/NDF : 65.2/60

All: 108.596 $\pm$ 209.418 χ^2/NDF : 131.1/118

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2126.498 $\pm$ 0.353 χ^2 /NDF: 3363032.6/34

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

Right Out: 2185.928 $\pm$ 0.368 χ^2 /NDF: 3089564.0/35

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

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

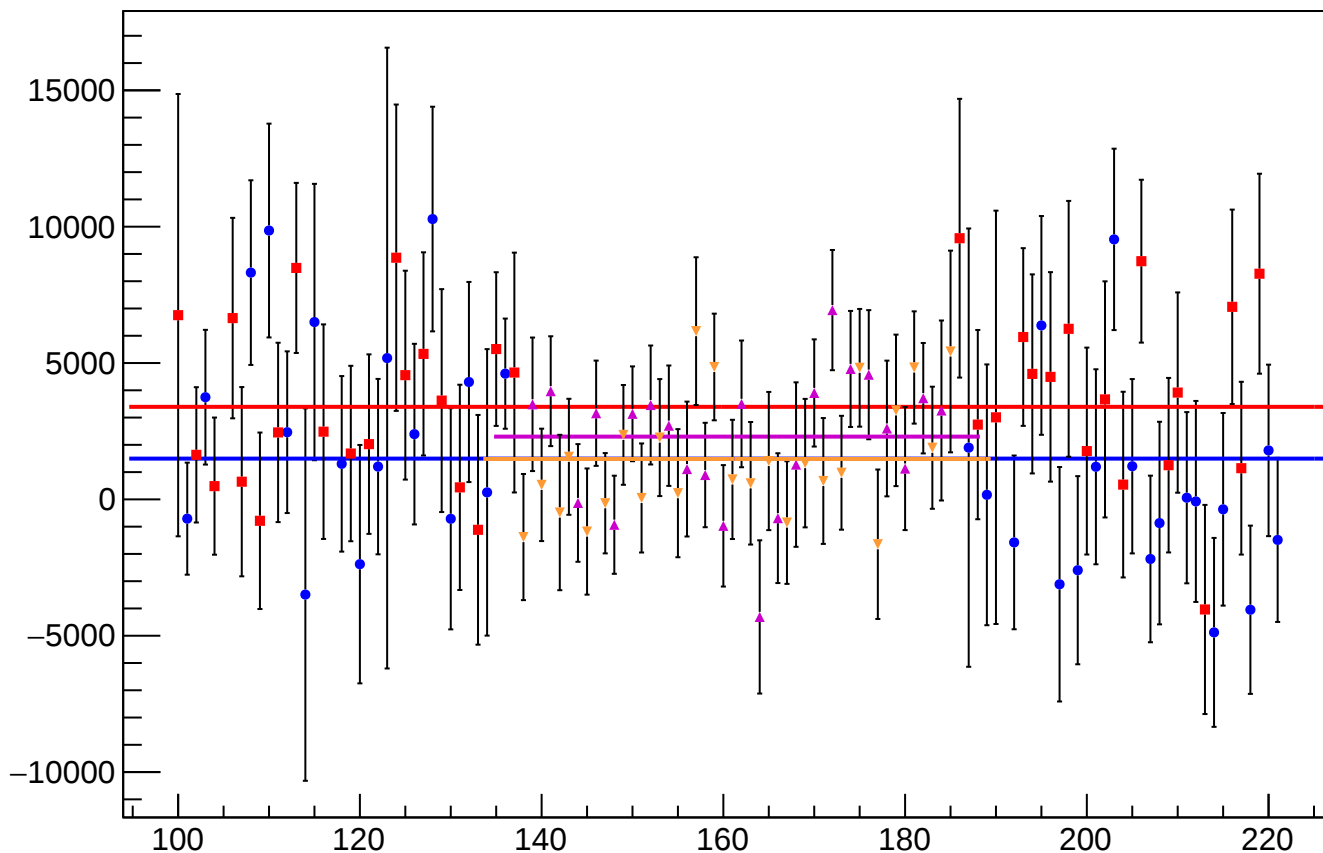
Right: 2154.994 $\pm$ 0.255 χ^2 /NDF: 6466160.8/70

In: 1724.982 $\pm$ 0.209 χ^2 /NDF: 6281872.4/57

Out: 1740.452 $\pm$ 0.210 χ^2 /NDF: 6011123.0/60

All: 1732.694 $\pm$ 0.148 χ^2 /NDF: 12295723.8/121

asym_usr_mean vs Slug, Sign Corrected



Right In: 1495.104+/-576.730 χ^2/NDF : 42.1/34

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

Right Out: 3393.531+/-596.693 χ^2/NDF : 26.4/35

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

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

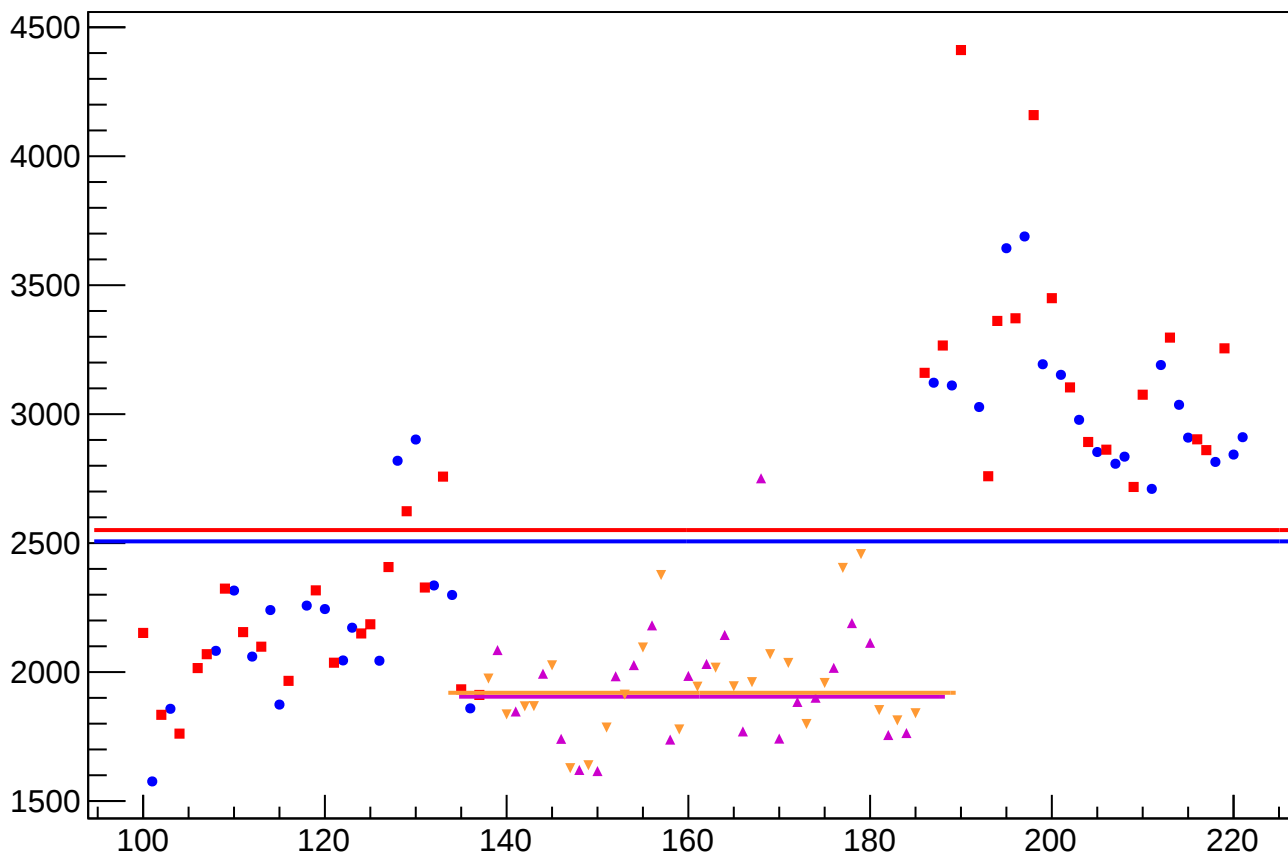
Right: 2412.030+/-414.688 χ^2/NDF : 73.7/70

In: 1988.607+/-359.161 χ^2/NDF : 68.1/57

Out: 2175.226+/-359.273 χ^2/NDF : 53.9/60

All: 2081.887+/-254.005 χ^2/NDF : 122.1/118

asym_usr_rms vs Slug, Sign Corrected



Right In: 2506.765+/-0.408 χ^2/NDF : 1889748.4/34

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

Right Out: 2550.559+/-0.422 χ^2/NDF : 1905064.0/35

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

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

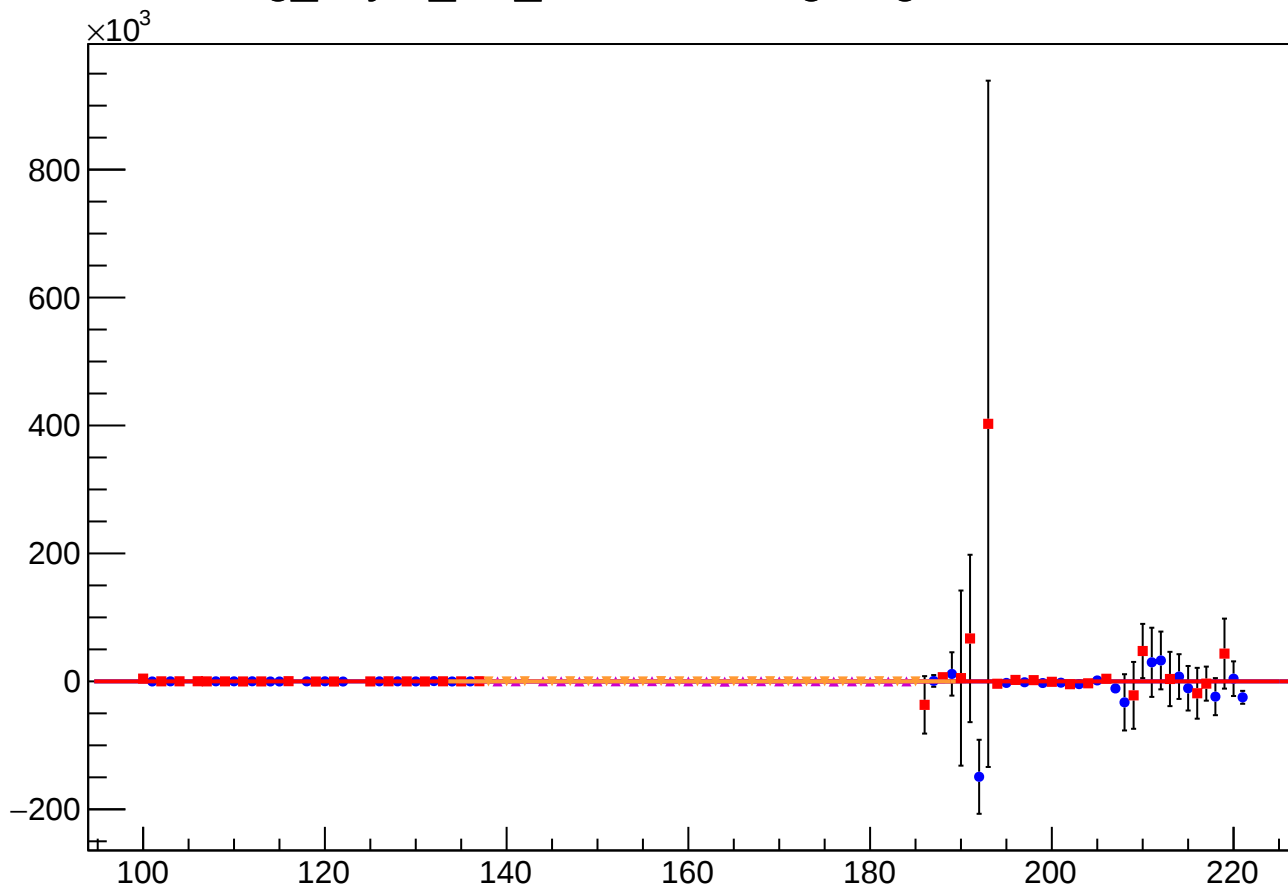
Right: 2527.917+/-0.293 χ^2/NDF : 3800382.4/70

In: 2138.150+/-0.254 χ^2/NDF : 3671699.2/57

Out: 2148.427+/-0.254 χ^2/NDF : 3696254.0/60

All: 2143.287+/-0.180 χ^2/NDF : 7368771.8/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.708 ± 36.762 $\chi^2/\text{NDF}: 39.8/33$

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

Right Out: 1.854 ± 36.747 $\chi^2/\text{NDF}: 21.8/35$

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

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

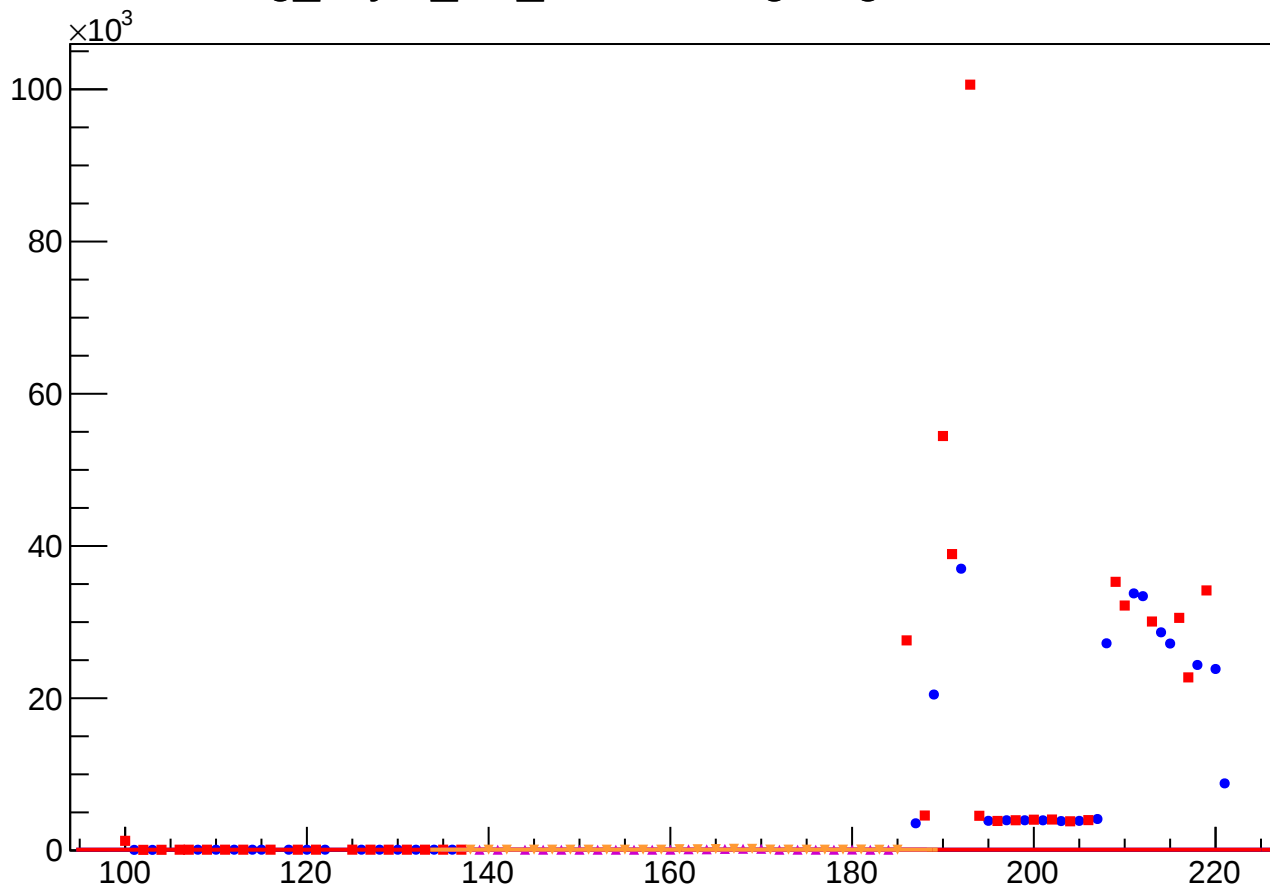
Right: -0.426 ± 25.989 $\chi^2/\text{NDF}: 61.6/69$

In: 15.458 ± 21.413 $\chi^2/\text{NDF}: 76.6/56$

Out: 8.742 ± 21.365 $\chi^2/\text{NDF}: 57.7/59$

All: 12.093 ± 15.124 $\chi^2/\text{NDF}: 134.3/116$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.353 $\pm$ 0.026 χ^2 /NDF: 22441467.9/33

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

Right Out: 98.378 $\pm$ 0.026 χ^2 /NDF: 18970059.7/35

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

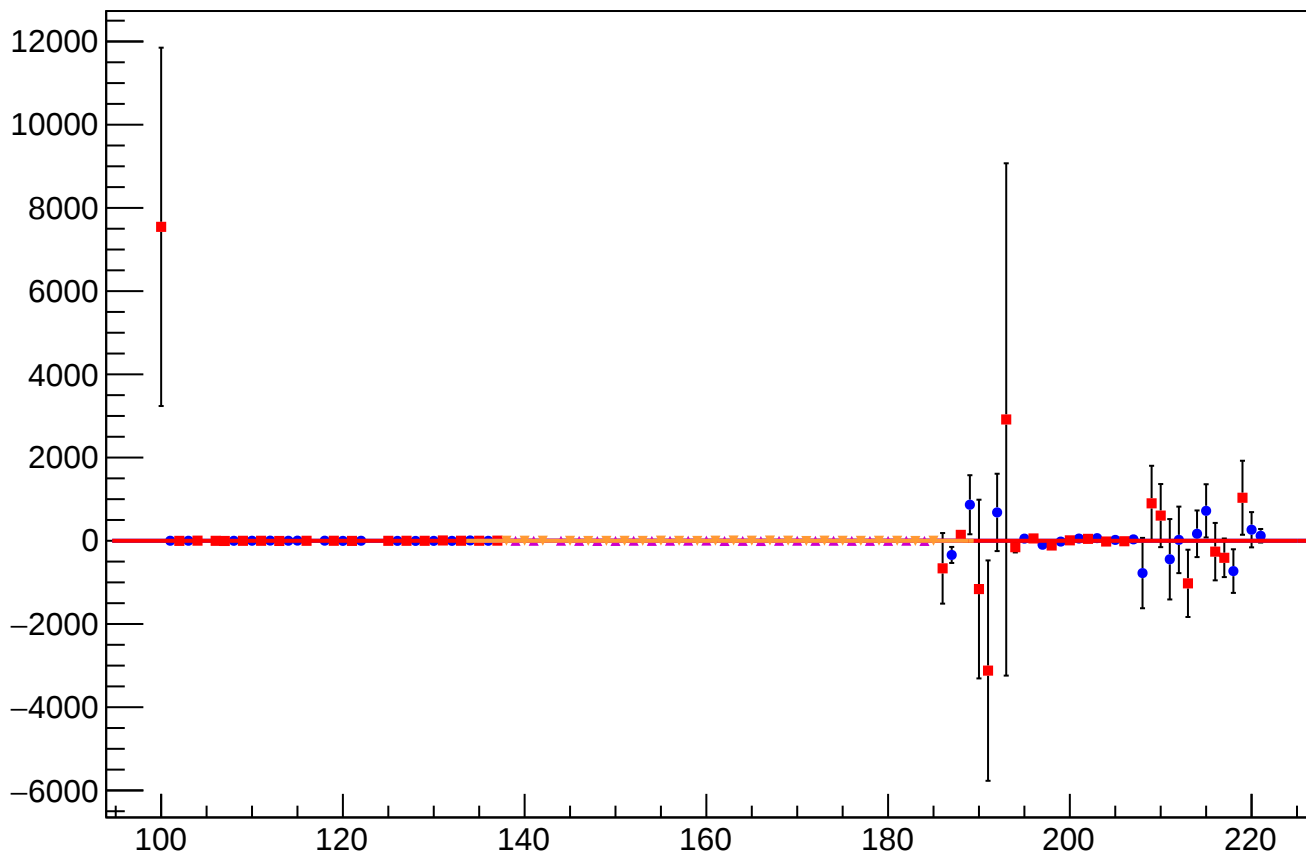
Right: 97.366 $\pm$ 0.018 χ^2 /NDF: 41414563.6/69

In: 103.832 $\pm$ 0.015 χ^2 /NDF: 24057793.8/56

Out: 104.787 $\pm$ 0.015 χ^2 /NDF: 20496936.4/59

All: 104.310 $\pm$ 0.011 χ^2 /NDF: 44556723.3/11

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.399 ± 0.617 χ^2/NDF : 24.7/33

Left Out: -0.534 ± 0.475 χ^2/NDF : 30.5/23

Right Out: -0.347 ± 0.644 χ^2/NDF : 35.2/35

Left In: -0.067 ± 0.485 χ^2/NDF : 25.0/22

Left: -0.306 ± 0.339 χ^2/NDF : 56.0/46

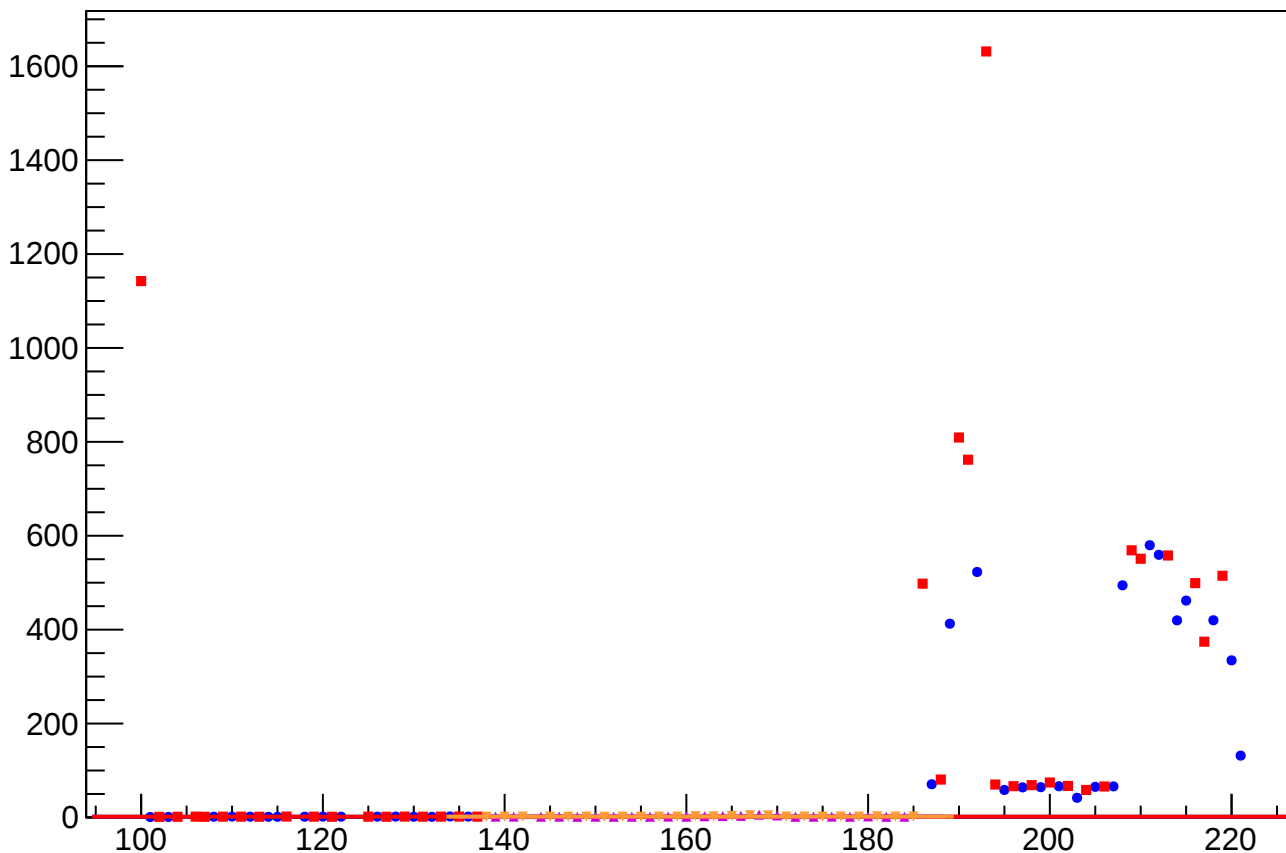
Right: 0.042 ± 0.445 χ^2/NDF : 60.6/69

In: 0.110 ± 0.381 χ^2/NDF : 50.0/56

Out: -0.468 ± 0.382 χ^2/NDF : 65.8/59

All: -0.178 ± 0.270 χ^2/NDF : 116.9/116

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.455+/-0.000 χ^2/NDF : 19399321.0/33

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

Right Out: 1.587+/-0.000 χ^2/NDF : 16728623.8/35

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

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

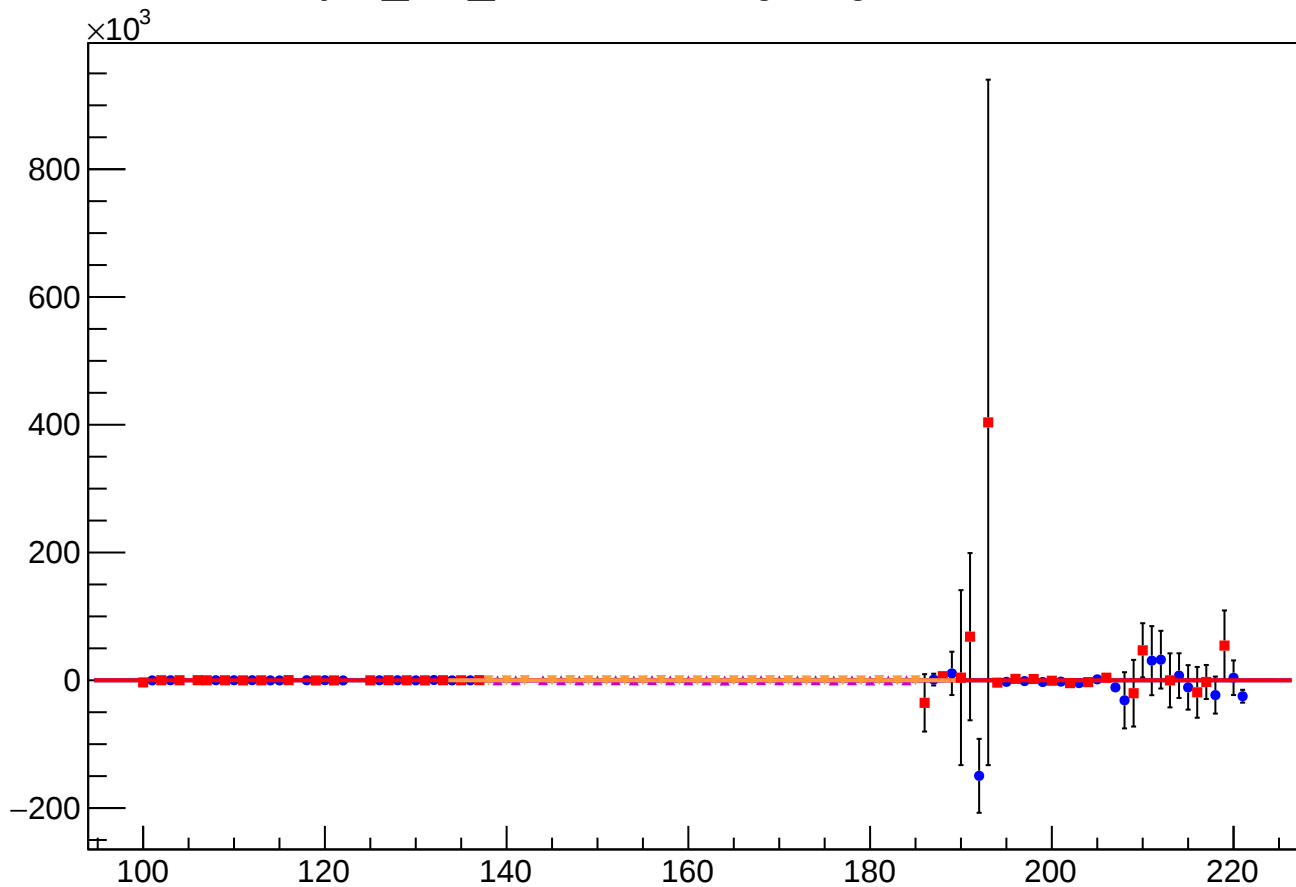
Right: 1.518+/-0.000 χ^2/NDF : 36171909.6/69

In: 1.670+/-0.000 χ^2/NDF : 21713965.8/56

Out: 1.706+/-0.000 χ^2/NDF : 18434737.8/59

All: 1.688+/-0.000 χ^2/NDF : 40157844.2/116

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.421 ± 36.771 $\chi^2/\text{NDF}: 40.0/33$

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

Right Out: 1.623 ± 36.757 $\chi^2/\text{NDF}: 21.5/35$

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

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

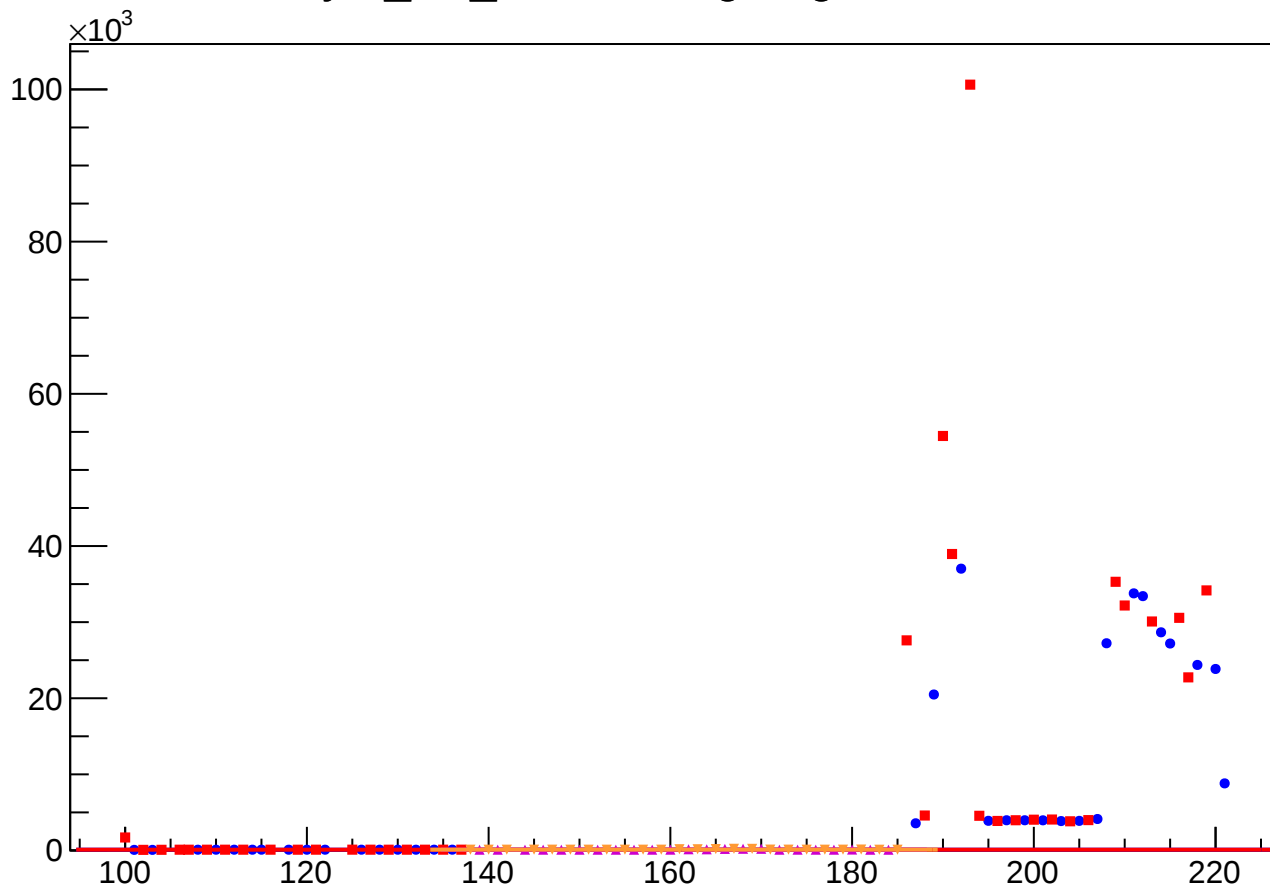
Right: -0.398 ± 25.996 $\chi^2/\text{NDF}: 61.5/69$

In: 15.902 ± 21.419 $\chi^2/\text{NDF}: 76.1/56$

Out: 9.119 ± 21.372 $\chi^2/\text{NDF}: 57.3/59$

All: 12.503 ± 15.129 $\chi^2/\text{NDF}: 133.4/116$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.378 $\pm$ 0.026 χ^2 /NDF: 22441437.0/33

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

Right Out: 98.387 $\pm$ 0.026 χ^2 /NDF: 18975354.6/35

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

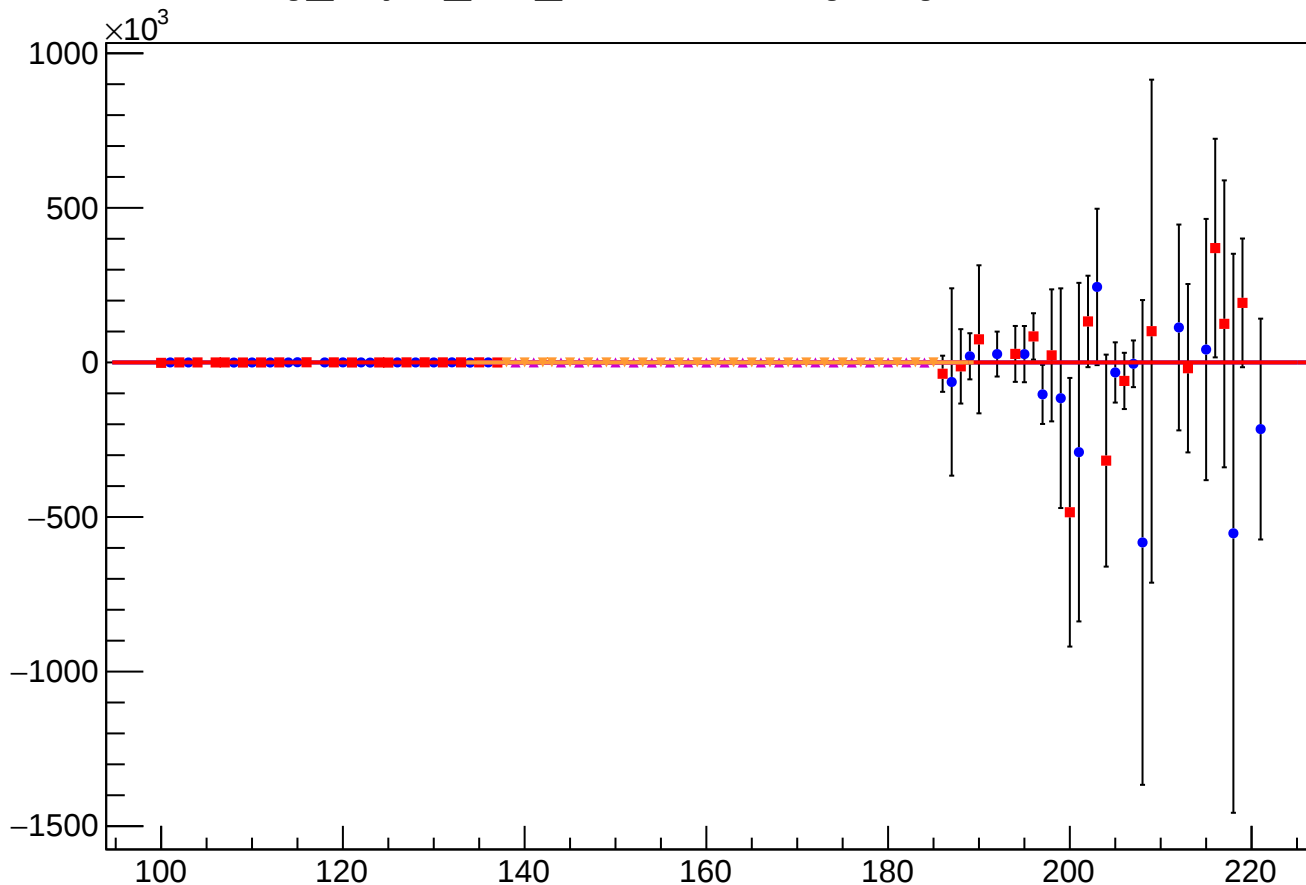
Right: 97.383 $\pm$ 0.018 χ^2 /NDF: 41419779.7/69

In: 103.860 $\pm$ 0.015 χ^2 /NDF: 24059128.8/56

Out: 104.810 $\pm$ 0.015 χ^2 /NDF: 20503975.4/59

All: 104.336 $\pm$ 0.011 χ^2 /NDF: 44565075.0/11

reg_asym_dsr_mean vs Slug, Sign Corrected



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

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

Right Out: 53.407 ± 47.775 $\chi^2/\text{NDF}: 22.7/33$

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

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

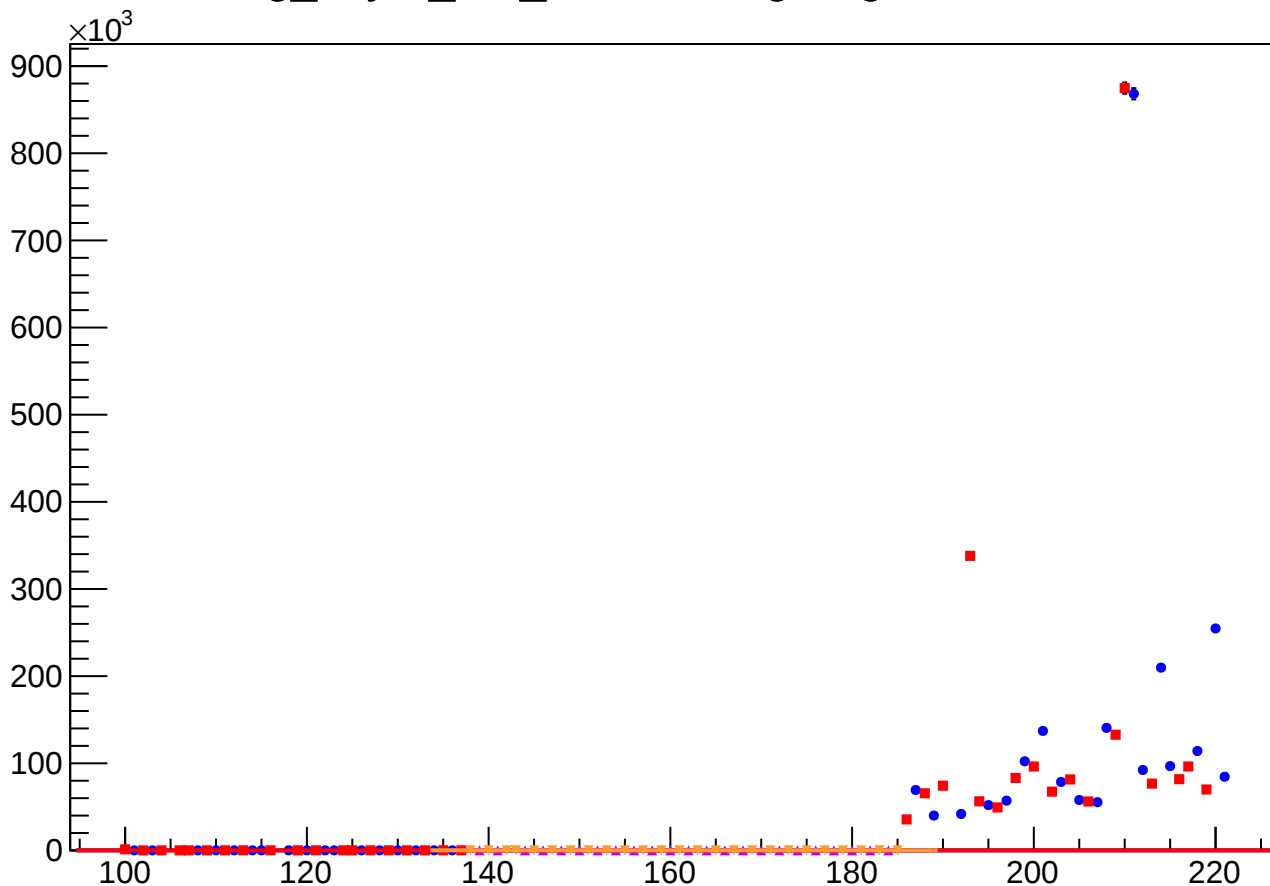
Right: 12.509 ± 33.447 $\chi^2/\text{NDF}: 42.9/65$

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

Out: 7.740 ± 26.623 $\chi^2/\text{NDF}: 36.0/58$

All: -22.058 ± 18.939 $\chi^2/\text{NDF}: 77.0/113$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.886 $\pm$ 0.033 χ^2 /NDF: 7285842.9/34

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

Right Out: 124.849 $\pm$ 0.034 χ^2 /NDF: 7039142.2/35

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

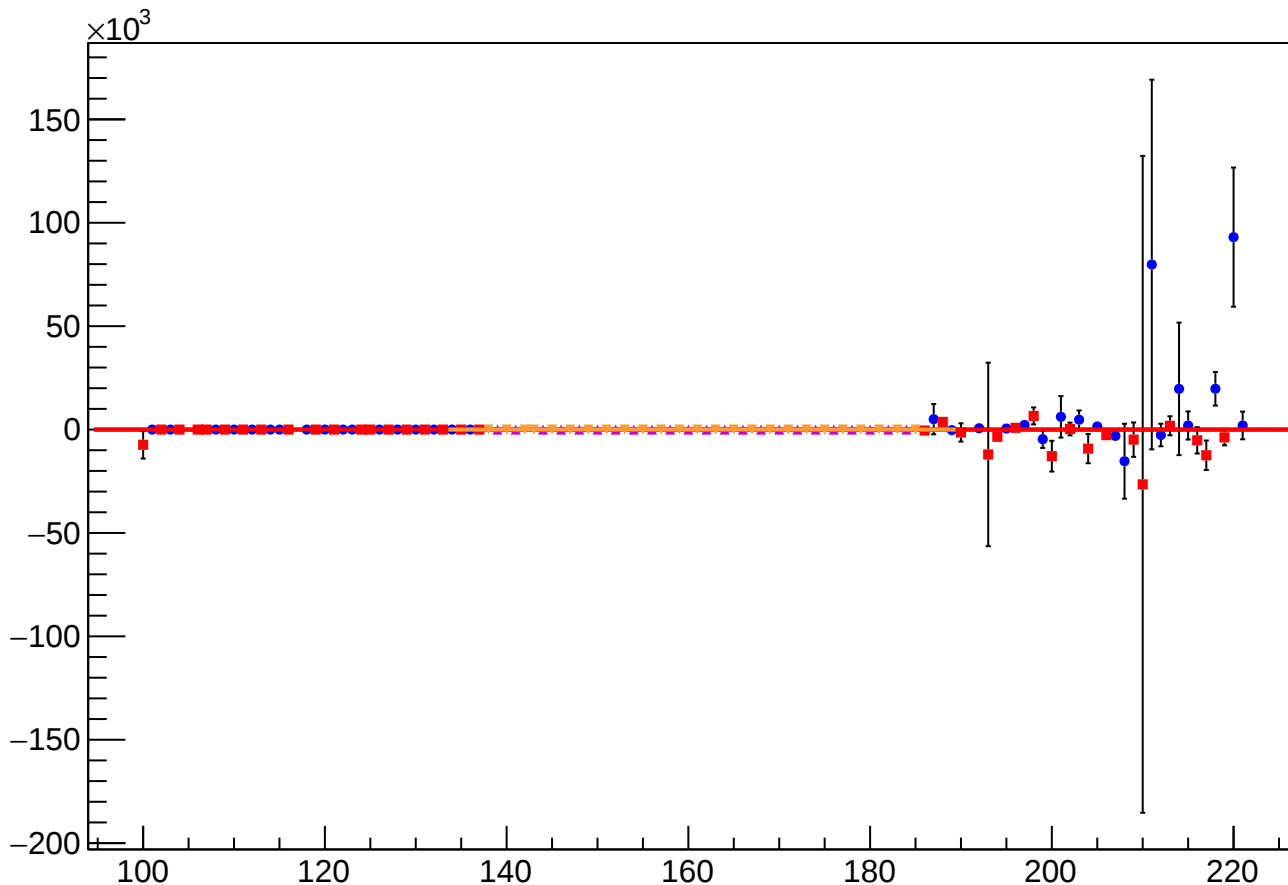
Right: 121.299 $\pm$ 0.024 χ^2 /NDF: 14346648.0/70

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7528270.8/57

Out: 133.817 $\pm$ 0.019 χ^2 /NDF: 7141804.3/60

All: 132.531 $\pm$ 0.013 χ^2 /NDF: 14679531.6/131

asym_dsr_correction_mean vs Slug, Sign Corrected



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

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

Right Out: -0.639 ± 0.852 χ^2/NDF : 37.4/35

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

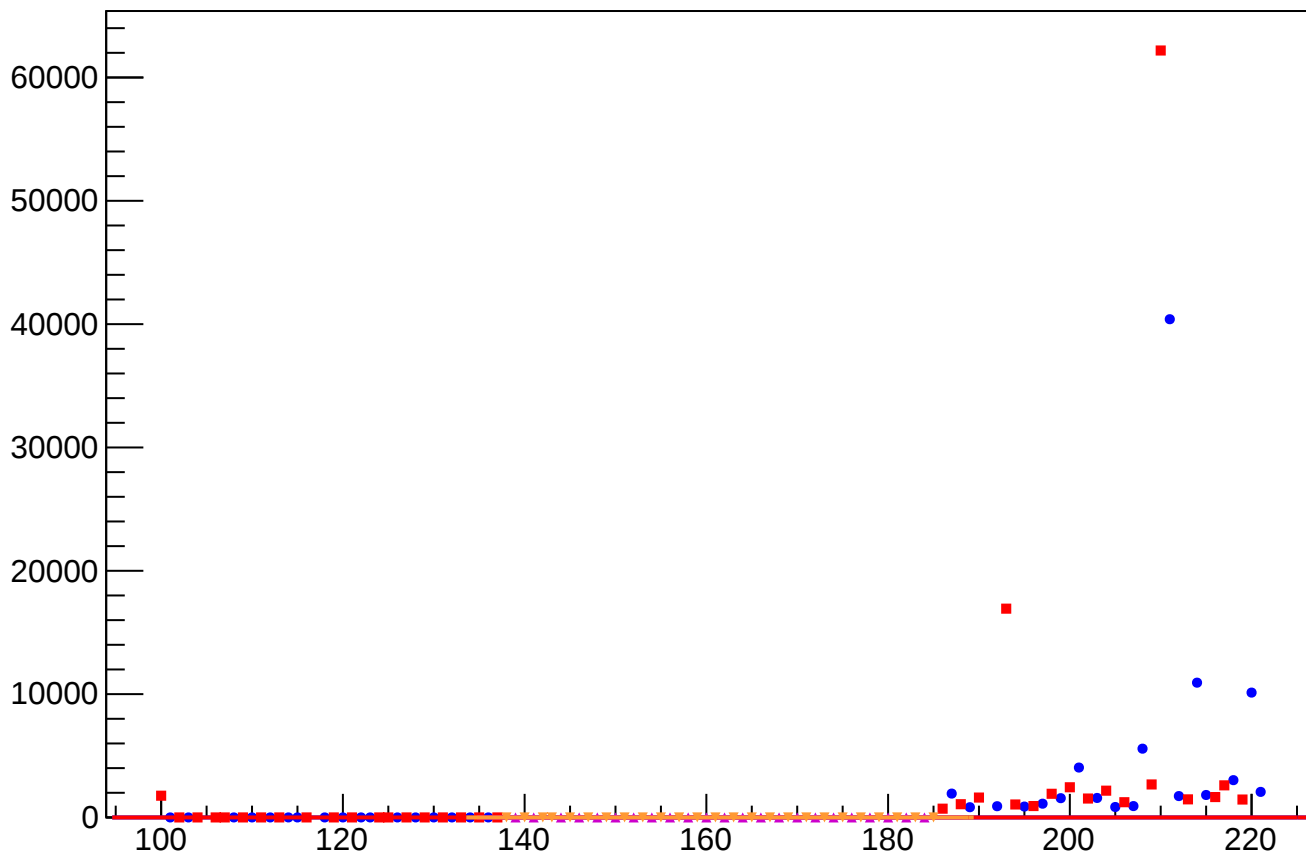
Right: -0.681 ± 0.587 χ^2/NDF : 76.5/70

In: -0.052 ± 0.471 χ^2/NDF : 60.8/57

Out: 0.139 ± 0.475 χ^2/NDF : 67.6/60

All: 0.043 ± 0.334 χ^2/NDF : 128.5/118

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 $\pm$ 0.001 χ^2 /NDF: 7459363.2/34

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

Right Out: 2.065 $\pm$ 0.001 χ^2 /NDF: 7474283.6/35

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

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

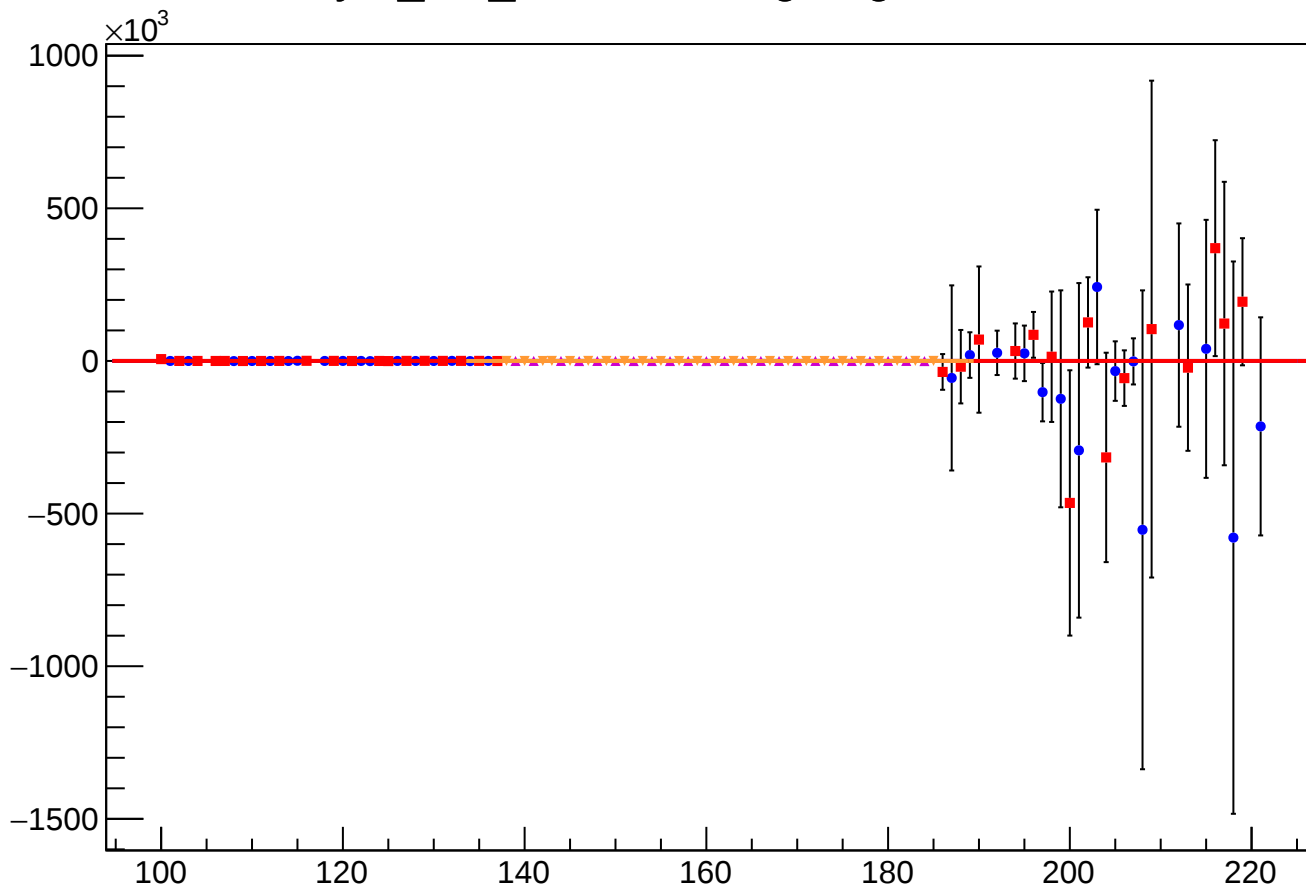
Right: 1.961 $\pm$ 0.000 χ^2 /NDF: 14990547.9/70

In: 2.083 $\pm$ 0.000 χ^2 /NDF: 8184451.2/57

Out: 2.201 $\pm$ 0.000 χ^2 /NDF: 7922555.2/60

All: 2.141 $\pm$ 0.000 χ^2 /NDF: 16169390.9/118

asym_dsr_mean vs Slug, Sign Corrected



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

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

Right Out: 54.310+/-47.789 χ^2/NDF : 23.1/33

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

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

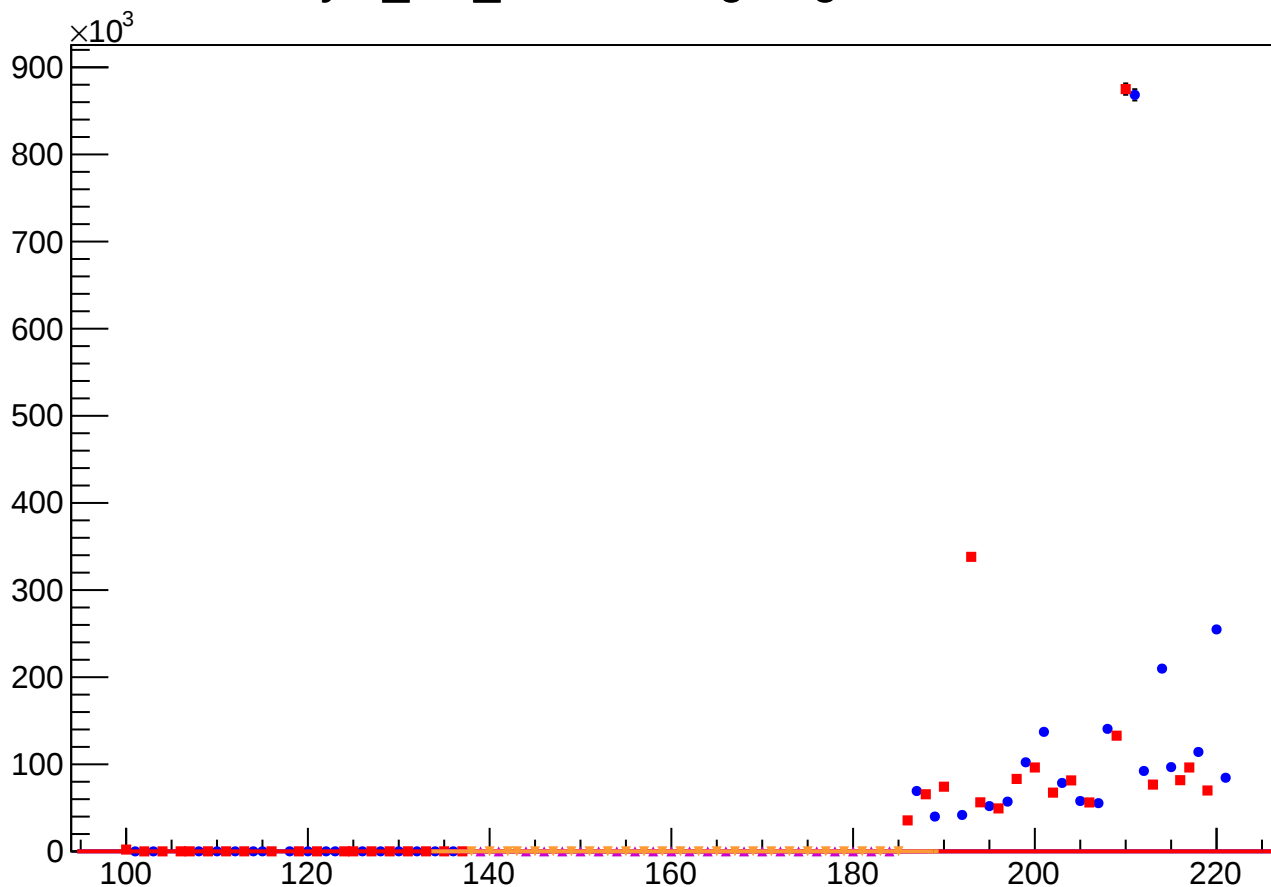
Right: 13.836+/-33.456 χ^2/NDF : 43.3/65

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

Out: 7.638+/-26.631 χ^2/NDF : 36.3/58

All: -21.791+/-18.944 χ^2/NDF : 77.4/113

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.918 $\pm$ 0.033 χ^2 /NDF: 7286008.9/34

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

Right Out: 124.838 $\pm$ 0.034 χ^2 /NDF: 7049817.7/35

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

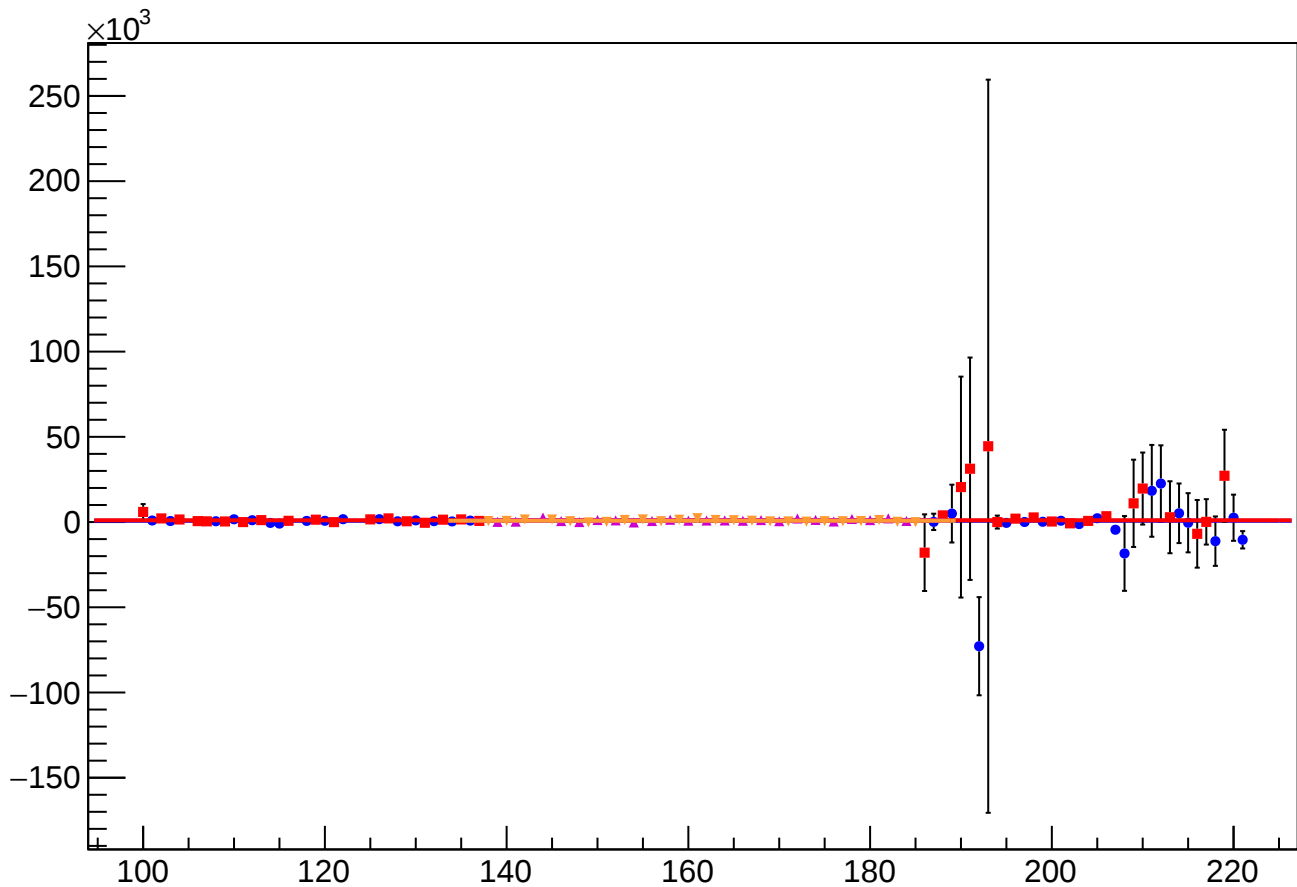
Right: 121.309 $\pm$ 0.024 χ^2 /NDF: 14357211.5/70

In: 131.249 $\pm$ 0.019 χ^2 /NDF: 7528472.3/57

Out: 133.840 $\pm$ 0.019 χ^2 /NDF: 7153199.3/60

All: 132.560 $\pm$ 0.013 χ^2 /NDF: 14691027.8/131

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 748.238 $\pm$ 209.598 χ^2 /NDF: 26.6/33

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

Right Out: 1040.143 $\pm$ 207.223 χ^2 /NDF: 20.7/35

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

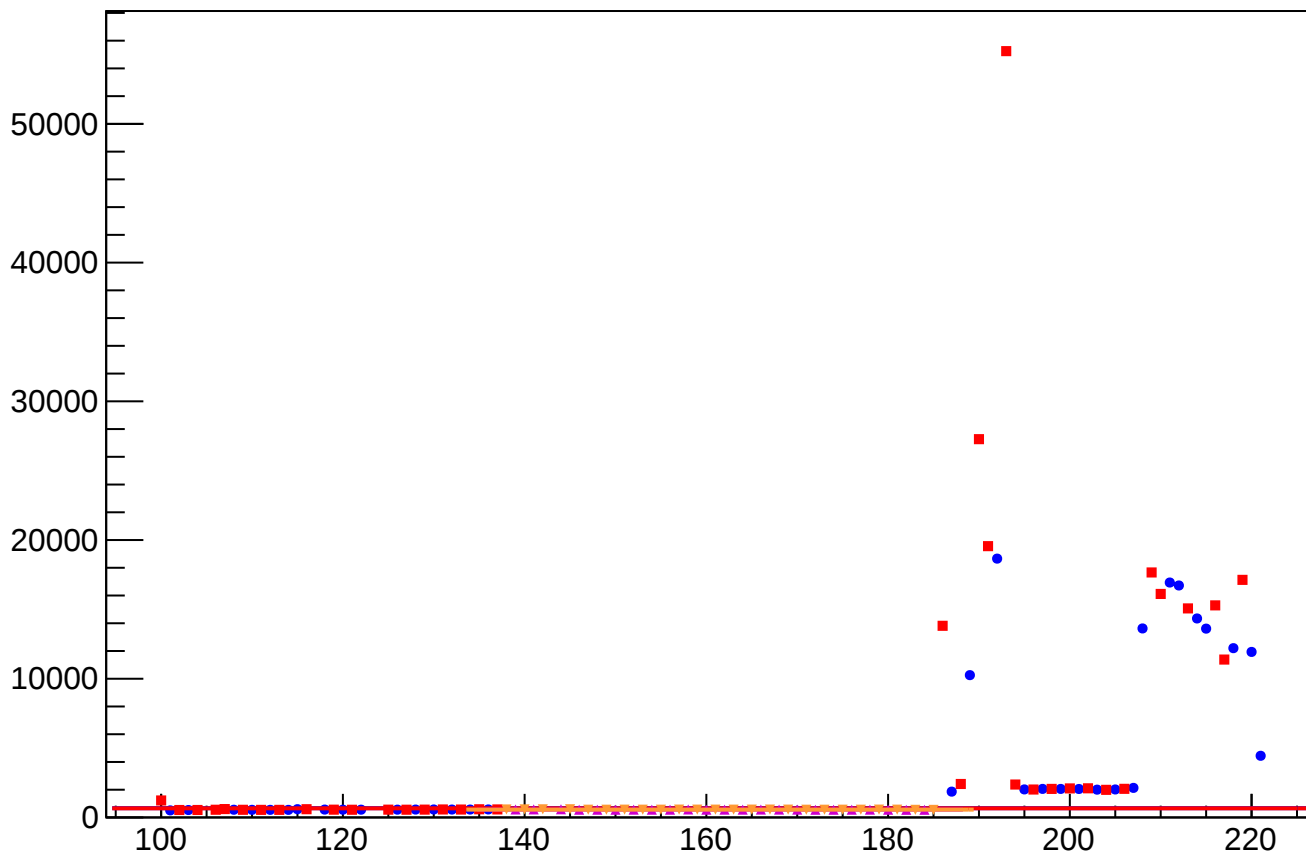
Right: 895.854 $\pm$ 147.361 χ^2 /NDF: 48.3/69

In: 908.135 $\pm$ 113.455 χ^2 /NDF:54.8/56

Out: 859.830 $\pm$ 112.555 χ^2 /NDF:41.0/59

All: 883.790 $\pm$ 79.905 χ^2 /NDF: 95.9/116

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 669.623+/-0.148 χ^2/NDF : 15792765.1/33

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

Right Out: 658.198+/-0.147 χ^2/NDF : 13208247.0/35

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

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

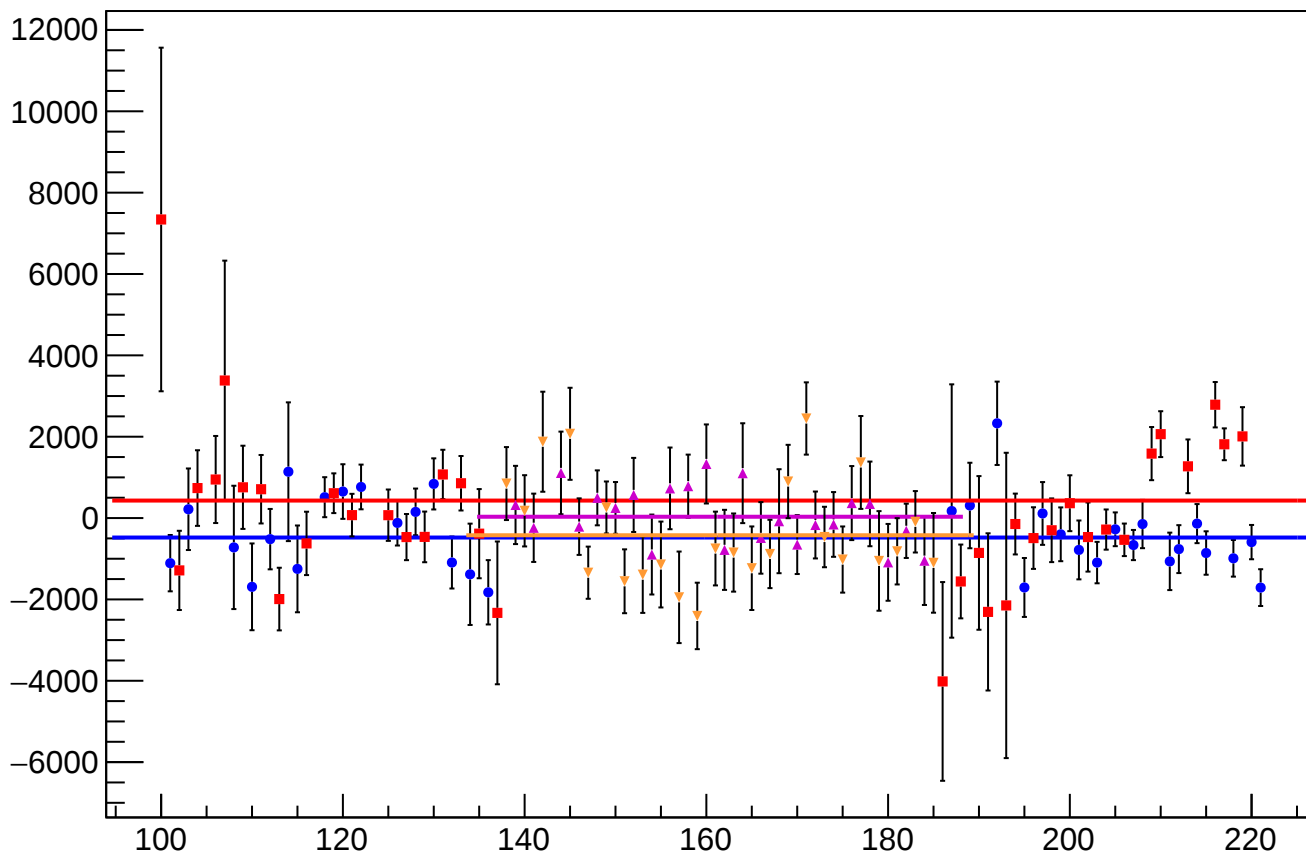
Right: 663.846+/-0.104 χ^2/NDF : 29004017.0/69

In: 595.219+/-0.080 χ^2/NDF : 16158454.8/56

Out: 591.892+/-0.080 χ^2/NDF : 13508306.5/59

All: 593.542+/-0.057 χ^2/NDF : 29667627.9/115

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -478.510+/-106.431 χ^2/NDF : 51.2/33

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

Right Out: 430.158+/-118.205 χ^2/NDF : 100.4/35

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

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

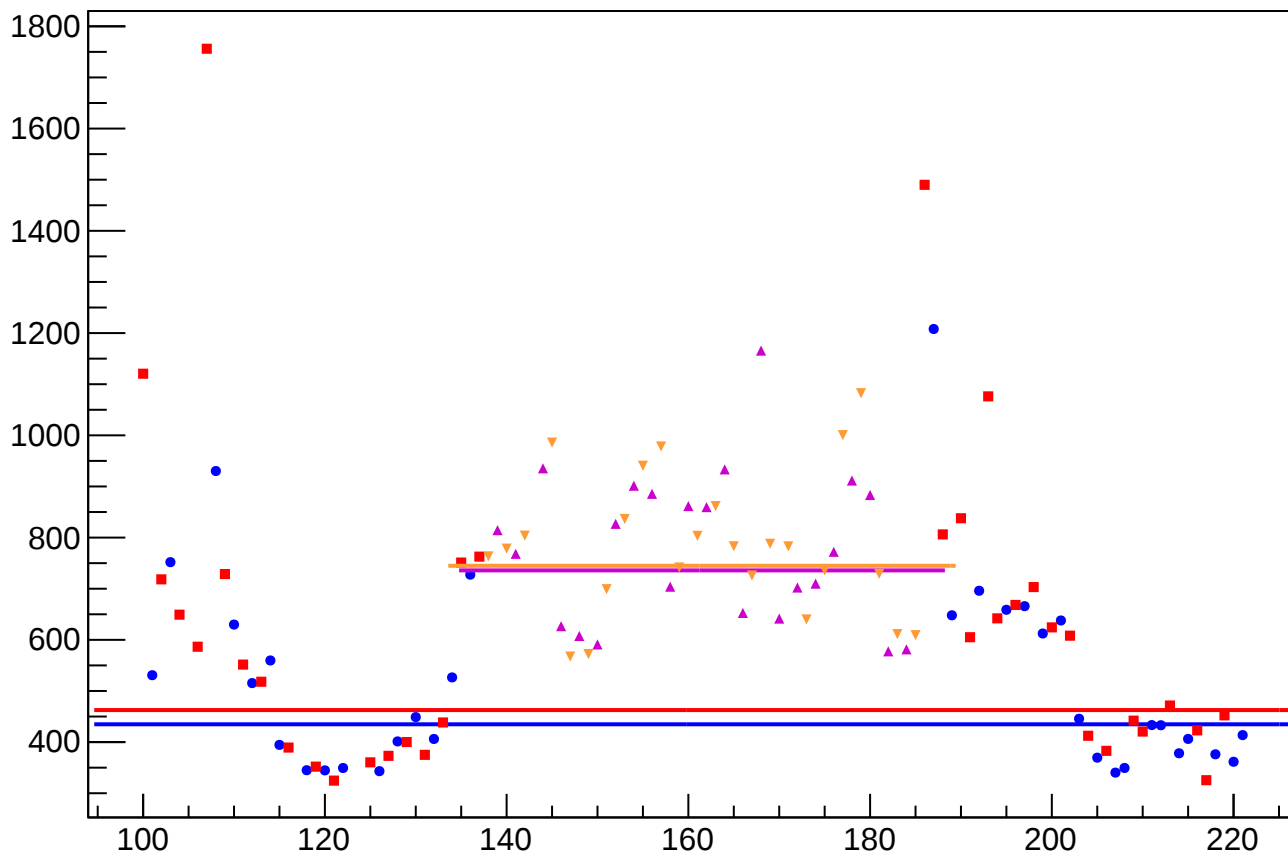
Right: -71.675+/-79.094 χ^2/NDF : 184.2/69

In: -345.534+/-91.539 χ^2/NDF : 69.4/56

Out: 174.401+/-98.906 χ^2/NDF : 159.2/59

All: -105.649+/-67.181 χ^2/NDF : 243.5/116

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 434.839+/-0.075 χ^2/NDF : 2420148.3/33

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

Right Out: 462.655+/-0.084 χ^2/NDF : 3244348.2/35

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

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

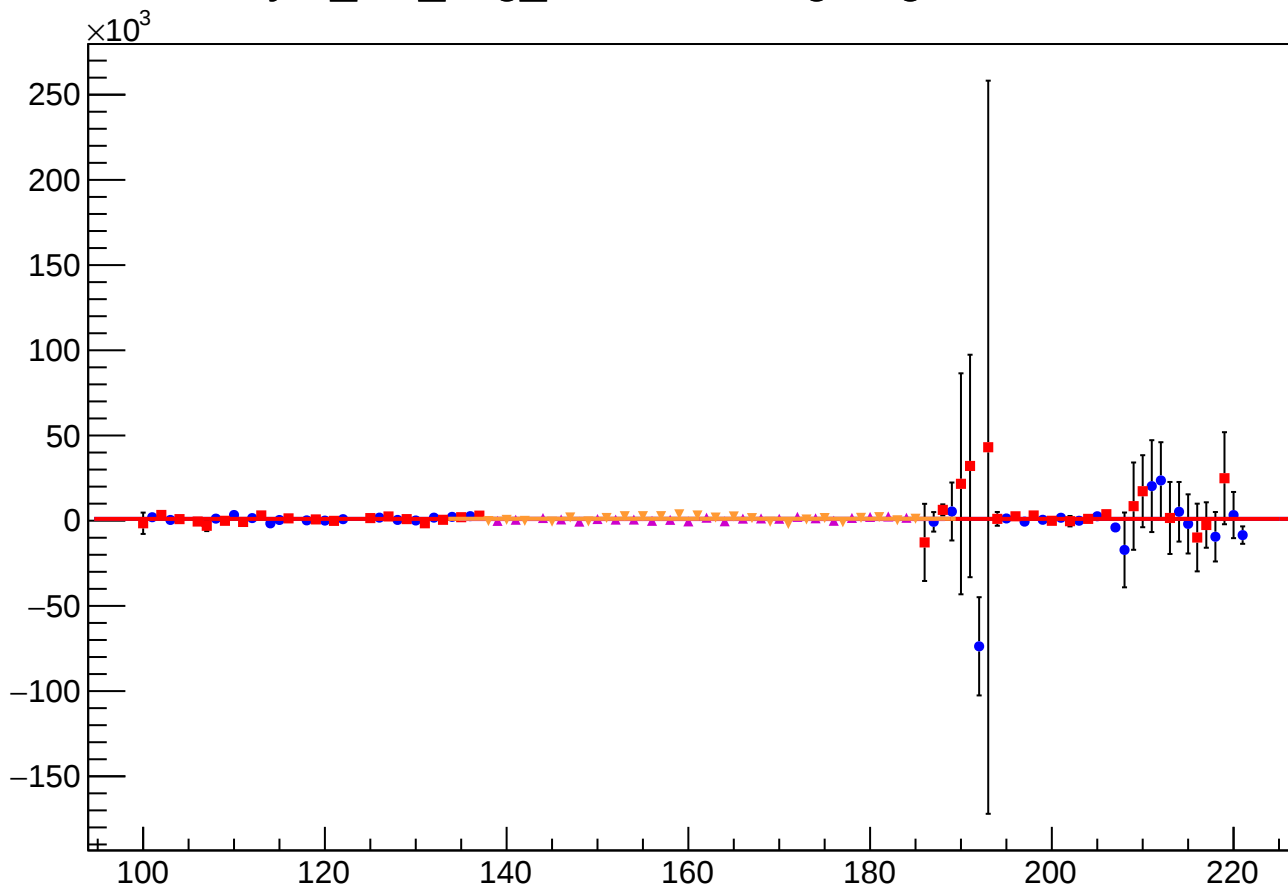
Right: 447.293+/-0.056 χ^2/NDF : 5725658.5/69

In: 513.182+/-0.065 χ^2/NDF :7689234.0/56

Out: 547.300+/-0.070 χ^2/NDF :7672959.1/59

All: 528.923+/-0.048 χ^2/NDF : 15490374.1/11

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1063.202 $\pm$ 279.986 χ^2 /NDF: 30.9/33

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

Right Out: 1061.813 $\pm$ 280.244 χ^2 /NDF: 31.6/35

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

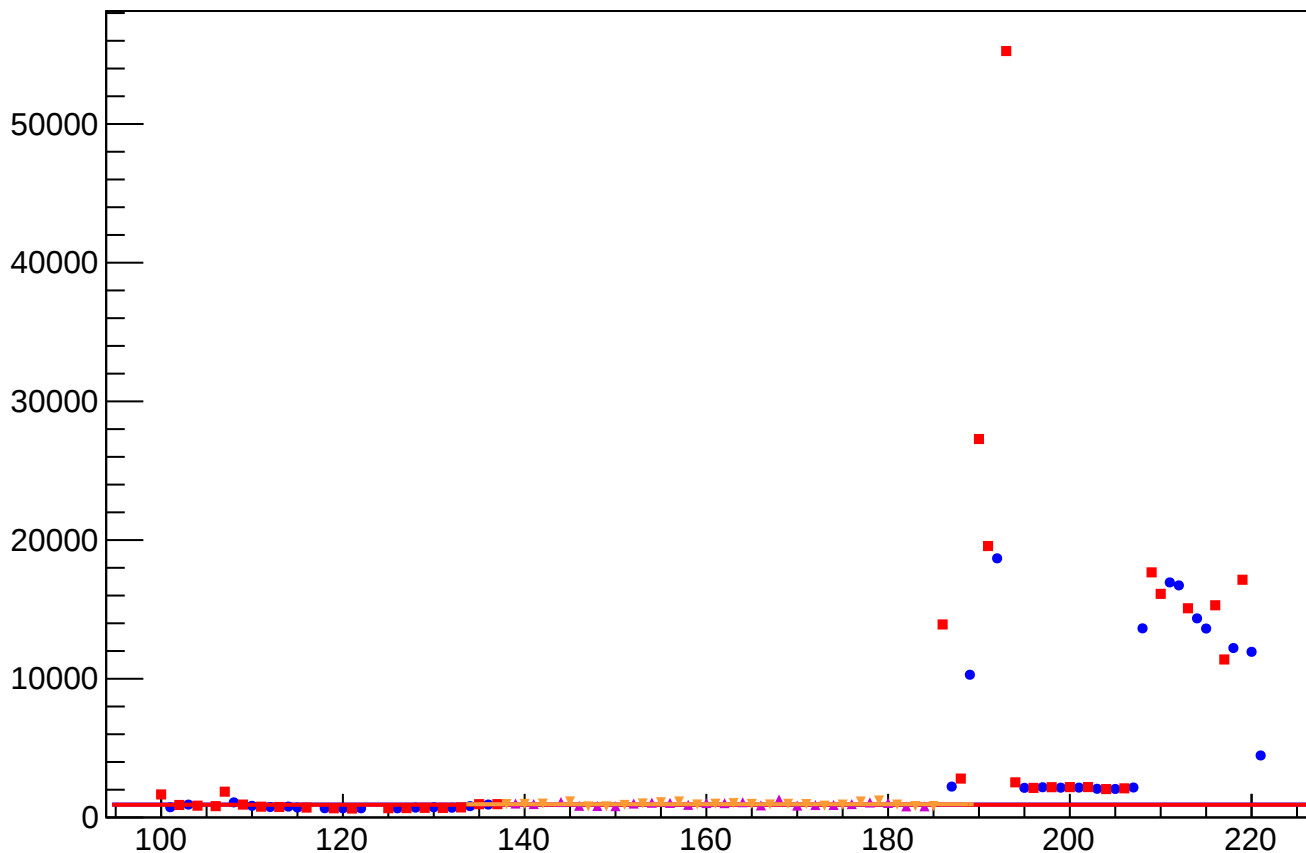
Right: 1062.508 $\pm$ 198.071 χ^2 /NDF: 62.5/69

In: 990.229 $\pm$ 176.947 χ^2 /NDF: 45.8/56

Out: 1107.484 $\pm$ 177.249 χ^2 /NDF: 70.5/59

All: 1048.757 $\pm$ 125.227 χ^2 /NDF: 116.6/116

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 929.937+/-0.198 χ^2/NDF : 14129726.8/33

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

Right Out: 914.214+/-0.198 χ^2/NDF : 12151429.2/35

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

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

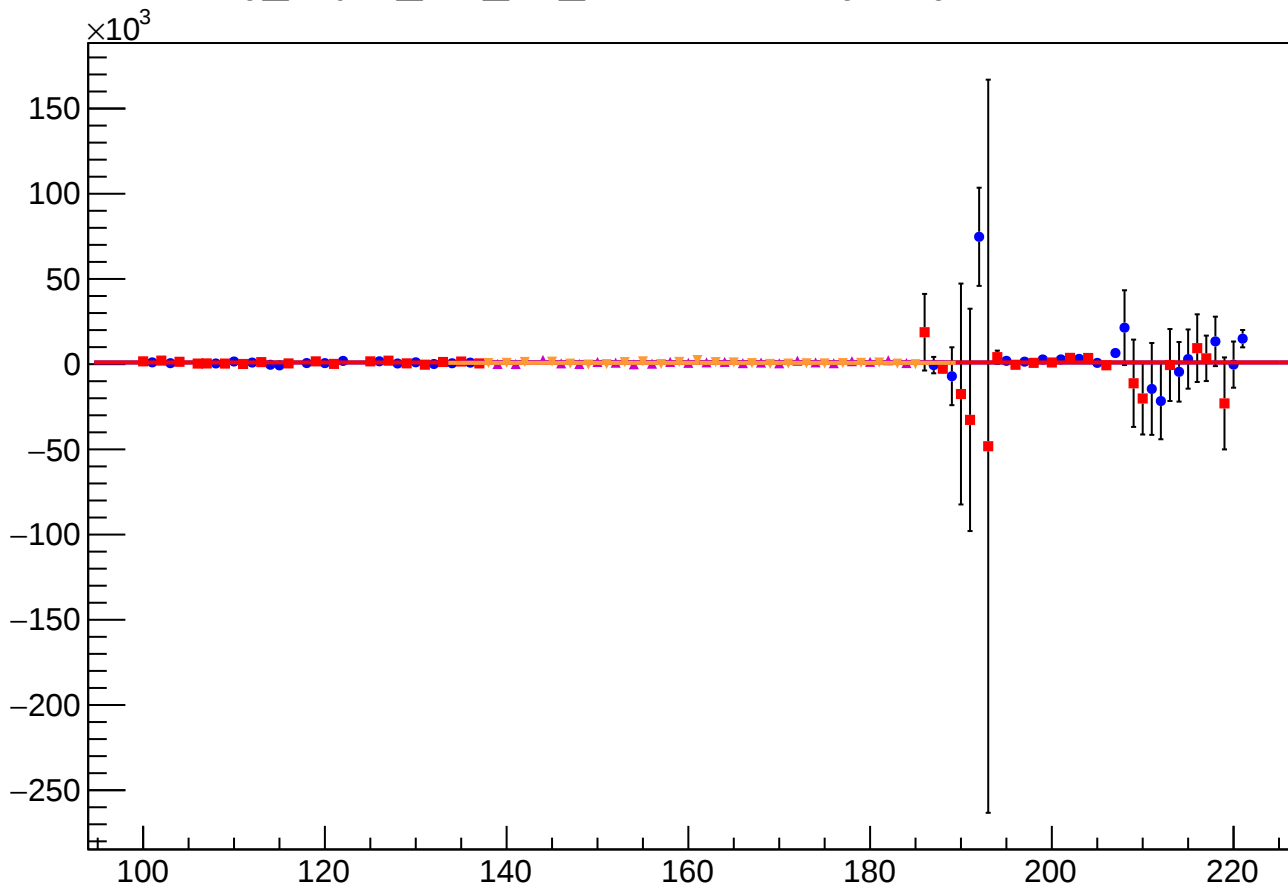
Right: 922.082+/-0.140 χ^2/NDF : 26284306.8/69

In: 939.928+/-0.125 χ^2/NDF : 14635334.3/56

Out: 938.284+/-0.125 χ^2/NDF : 12636169.5/59

All: 939.108+/-0.089 χ^2/NDF : 27271590.0/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 983.096 $\pm$ 209.468 χ^2 /NDF: 32.1/33

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

Right Out: 1015.218 $\pm$ 202.613 χ^2 /NDF: 21.1/35

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

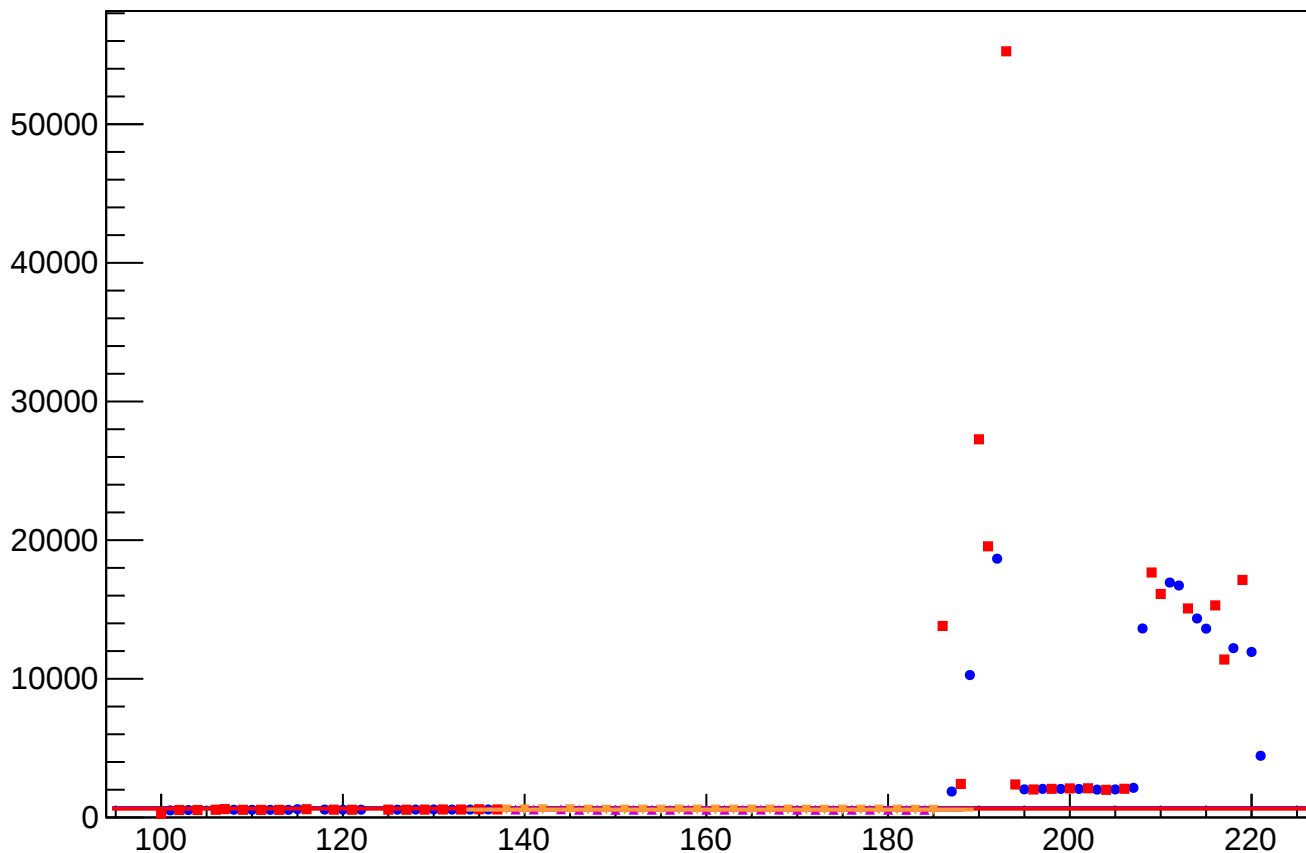
Right: 999.691 $\pm$ 145.632 χ^2 /NDF: 53.2/69

In: 965.716 $\pm$ 113.370 χ^2 /NDF:58.9/56

Out: 835.975 $\pm$ 111.734 χ^2 /NDF:43.2/59

All: 899.903 $\pm$ 79.580 χ^2 /NDF: 102.8/116

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 668.973+/-0.148 χ^2/NDF : 15808273.7/33

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

Right Out: 638.477+/-0.143 χ^2/NDF : 13527026.4/35

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

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

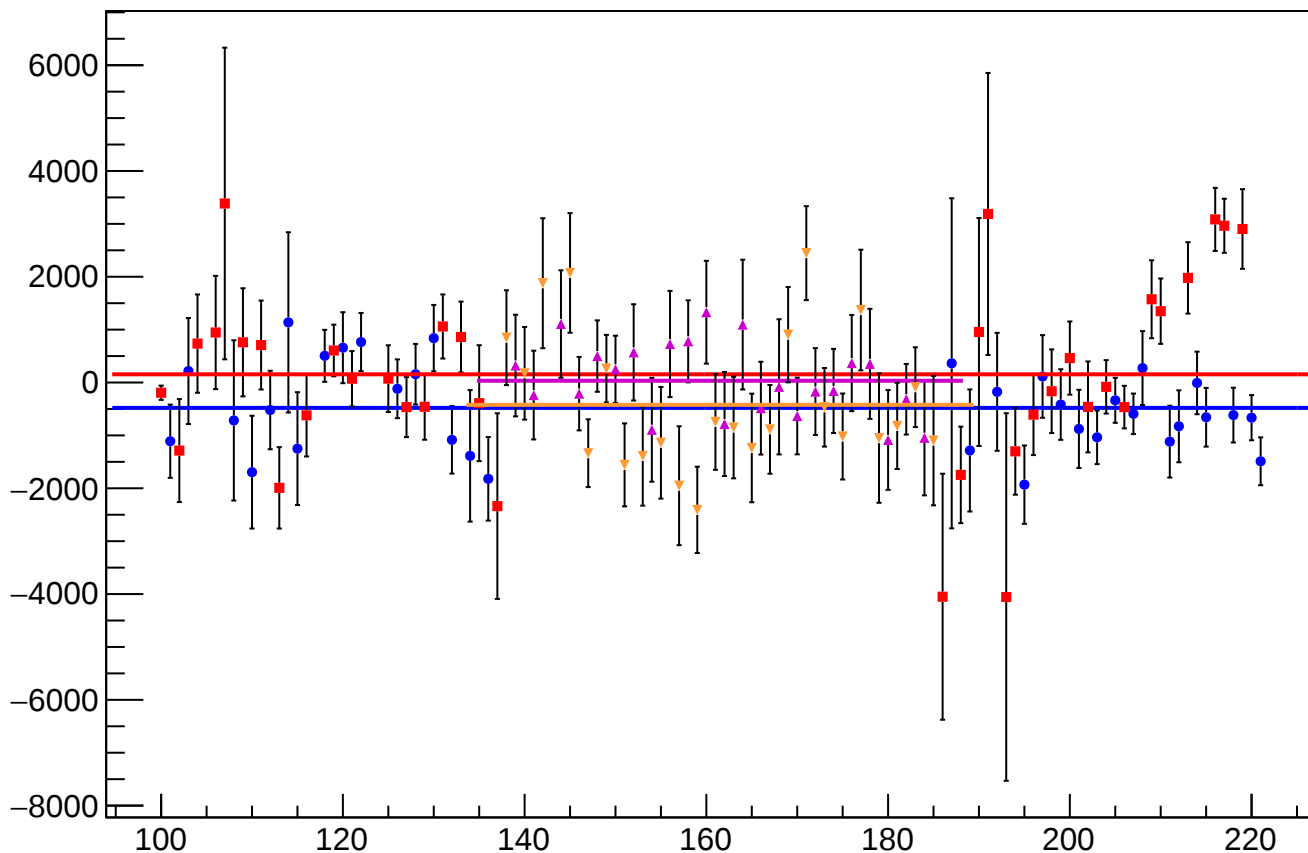
Right: 653.218+/-0.103 χ^2/NDF : 29357200.6/69

In: 594.703+/-0.080 χ^2/NDF : 16173073.9/56

Out: 586.423+/-0.079 χ^2/NDF : 13726268.6/59

All: 590.503+/-0.056 χ^2/NDF : 29904753.9/115

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -479.419 $\pm$ 110.015 χ^2/NDF : 41.5/33

Left Out: -422.324 $\pm$ 180.531 χ^2/NDF : 43.3/23

Right Out: 155.222 $\pm$ 90.841 χ^2/NDF : 129.8/35

Left In: 33.325 $\pm$ 179.355 χ^2/NDF : 12.1/22

Left: -193.010 $\pm$ 127.237 χ^2/NDF : 58.6/46

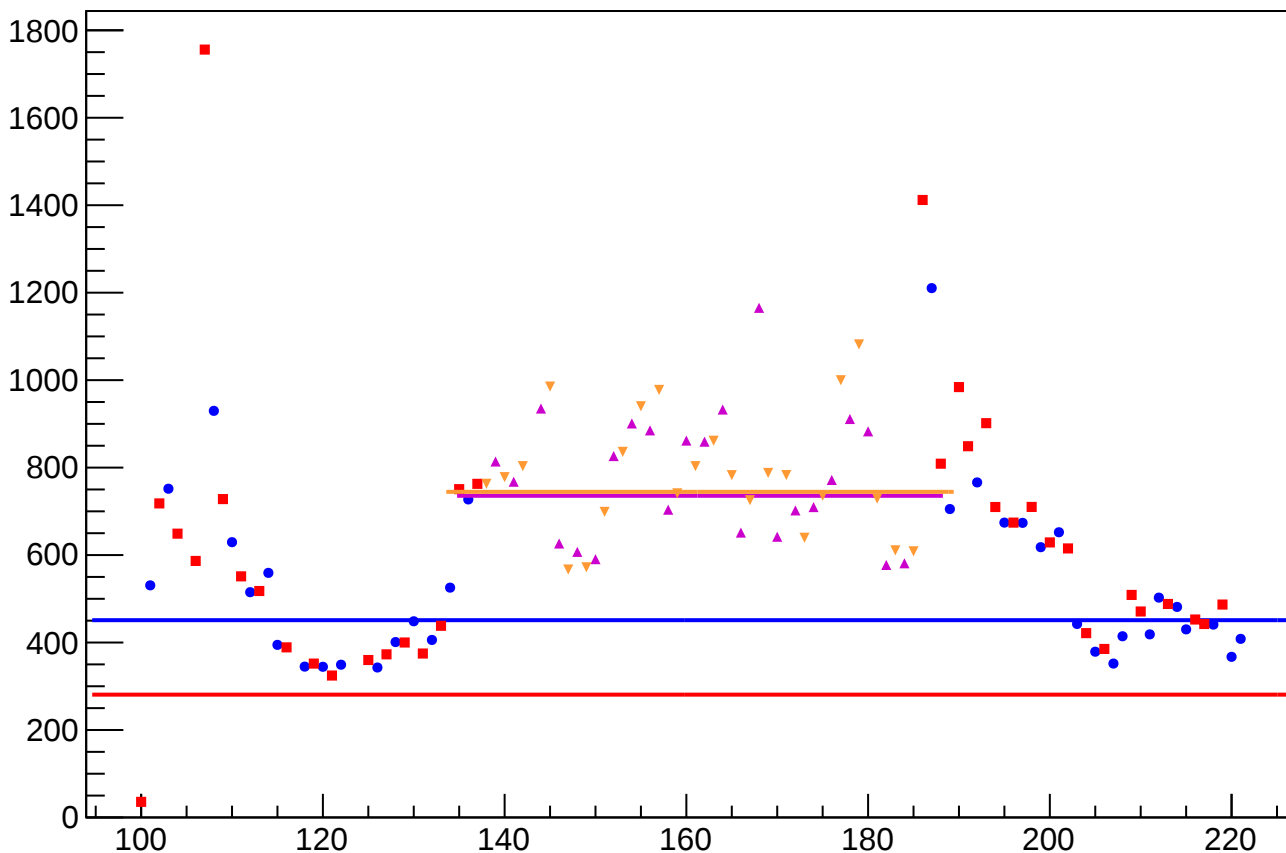
Right: -102.059 $\pm$ 70.048 χ^2/NDF : 191.0/69

In: -339.240 $\pm$ 93.779 χ^2/NDF : 59.5/56

Out: 38.535 $\pm$ 81.147 χ^2/NDF : 181.2/59

All: -123.213 $\pm$ 61.363 χ^2/NDF : 250.0/116

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 451.102 $\pm$ 0.078 χ^2 /NDF: 2364436.8/33

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

Right Out: 280.825 $\pm$ 0.064 χ^2 /NDF: 15051364.6/35

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

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

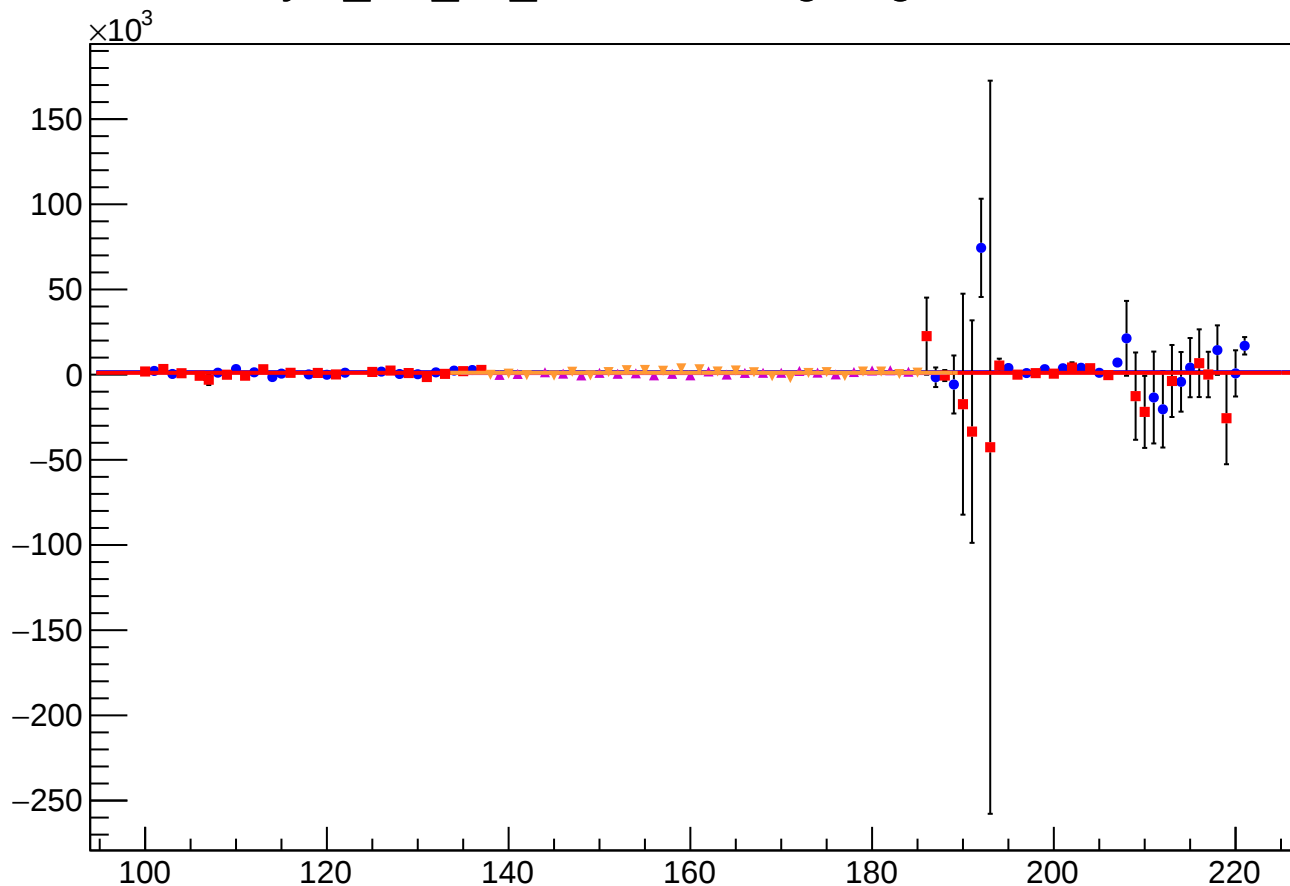
Right: 349.855 $\pm$ 0.050 χ^2 /NDF: 20264620.3/69

In: 528.865 $\pm$ 0.066 χ^2 /NDF:7124662.2/56

Out: 374.525 $\pm$ 0.057 χ^2 /NDF:26593080.0/59

All: 440.607 $\pm$ 0.043 χ^2 /NDF: 36815540.3/11

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1457.793 ± 279.891 $\chi^2/\text{NDF}: 41.1/33$

Left Out: 1105.144 ± 228.700 $\chi^2/\text{NDF}: 38.3/23$

Right Out: 1067.524 ± 269.361 $\chi^2/\text{NDF}: 30.6/35$

Left In: 926.281 ± 228.196 $\chi^2/\text{NDF}: 15.1/22$

Left: 1015.515 ± 161.537 $\chi^2/\text{NDF}: 53.7/46$

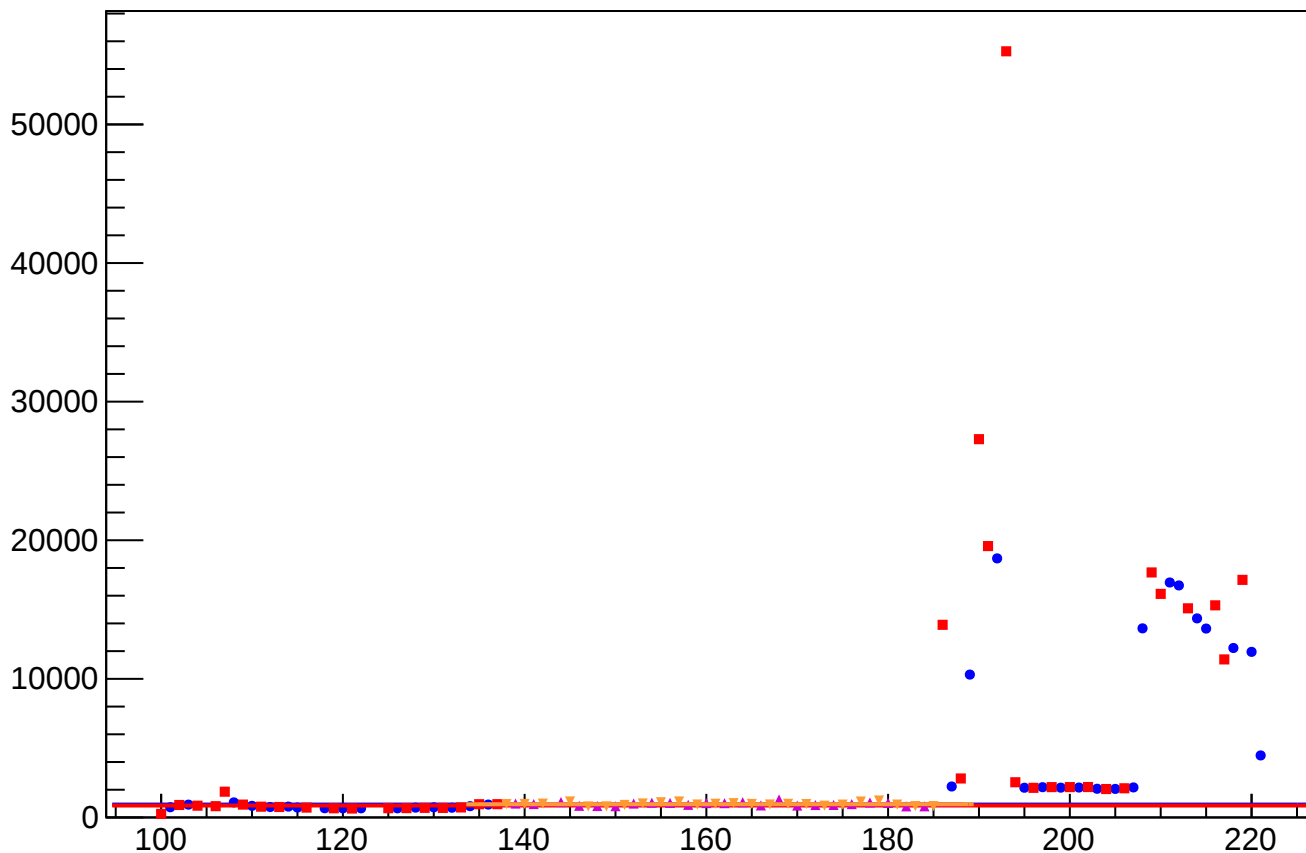
Right: 1255.179 ± 194.083 $\chi^2/\text{NDF}: 72.7/69$

In: 1138.513 ± 176.863 $\chi^2/\text{NDF}: 58.4/56$

Out: 1089.385 ± 174.338 $\chi^2/\text{NDF}: 68.8/59$

All: 1113.596 ± 124.159 $\chi^2/\text{NDF}: 127.2/116$

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 929.167+/-0.198 χ^2/NDF : 14152735.0/33

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

Right Out: 861.355+/-0.190 χ^2/NDF : 12986615.9/35

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

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

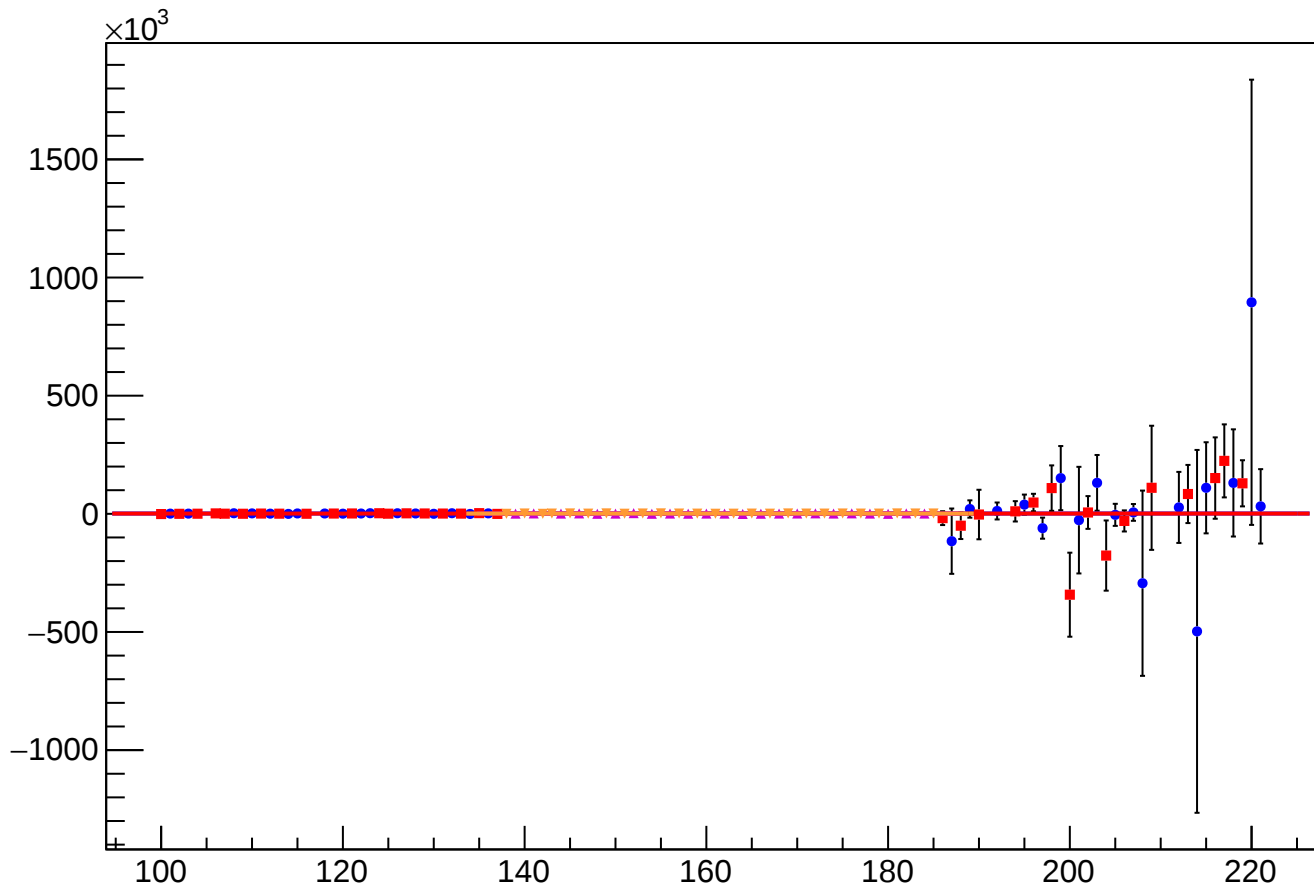
Right: 893.961+/-0.137 χ^2/NDF : 27200301.3/69

In: 939.303+/-0.125 χ^2/NDF : 14658544.3/56

Out: 915.063+/-0.123 χ^2/NDF : 13583663.4/59

All: 927.009+/-0.088 χ^2/NDF : 28261261.4/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.483 $\pm$ 218.578 χ^2 /NDF: 21.7/33

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

Right Out: 1041.099 $\pm$ 212.060 χ^2 /NDF: 28.5/33

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

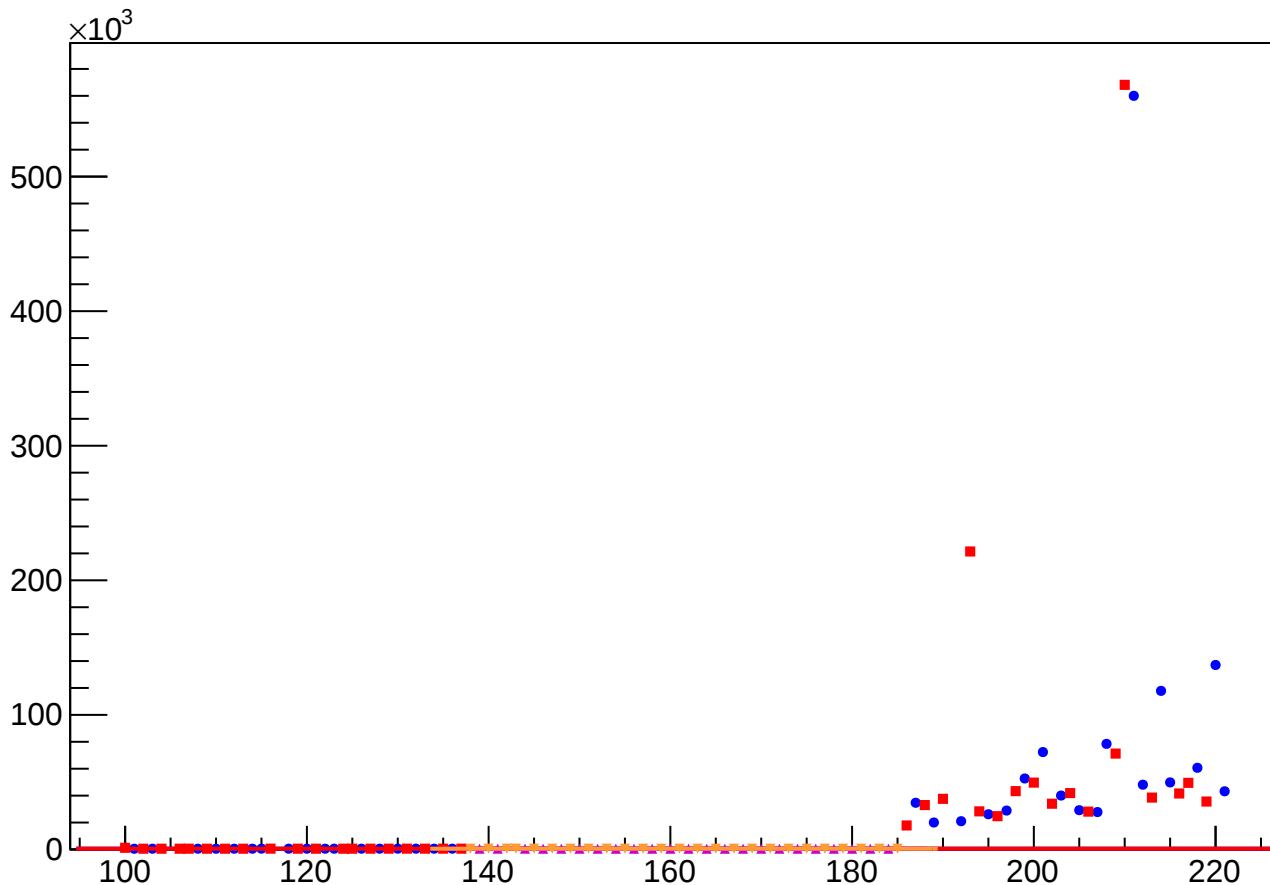
Right: 1178.988 $\pm$ 152.201 χ^2 /NDF: 51.0/67

In: 1178.434 $\pm$ 113.721 χ^2 /NDF:52.3/56

Out: 1064.771 $\pm$ 110.639 χ^2 /NDF:43.7/58

All: 1120.042 $\pm$ 79.301 χ^2 /NDF: 96.5/115

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.887 $\pm$ 0.155 χ^2 /NDF: 6684472.1/34

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

Right Out: 570.199 $\pm$ 0.150 χ^2 /NDF: 6524658.2/35

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

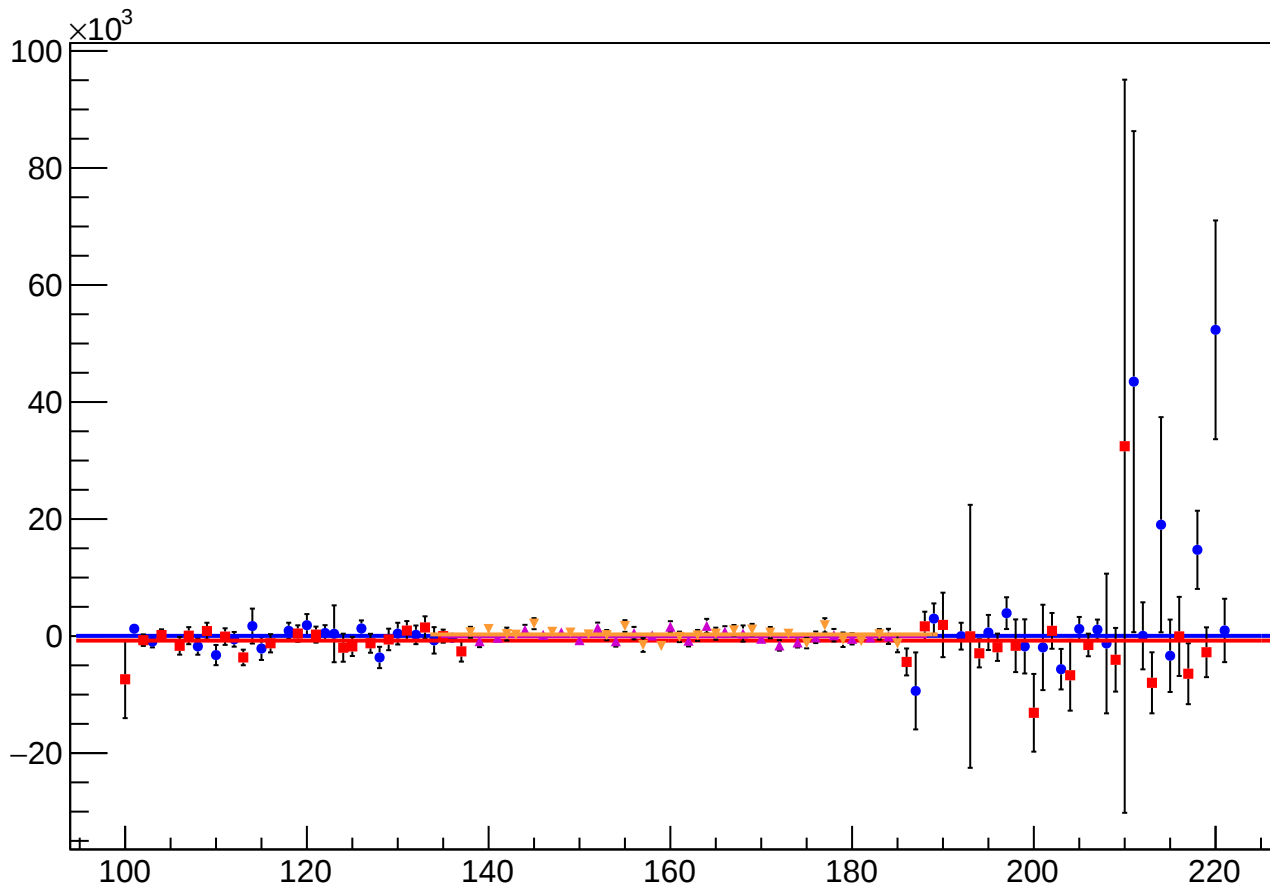
Right: 569.562 $\pm$ 0.108 χ^2 /NDF: 13209167.5/70

In: 560.195 $\pm$ 0.080 χ^2 /NDF:6700018.0/57

Out: 560.982 $\pm$ 0.078 χ^2 /NDF:6544602.5/60

All: 560.599 $\pm$ 0.056 χ^2 /NDF: 13244669.7/11

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 38.831 ± 305.168 χ^2/NDF : 41.4/34

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

Right Out: -768.603 ± 309.849 χ^2/NDF : 28.6/35

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

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

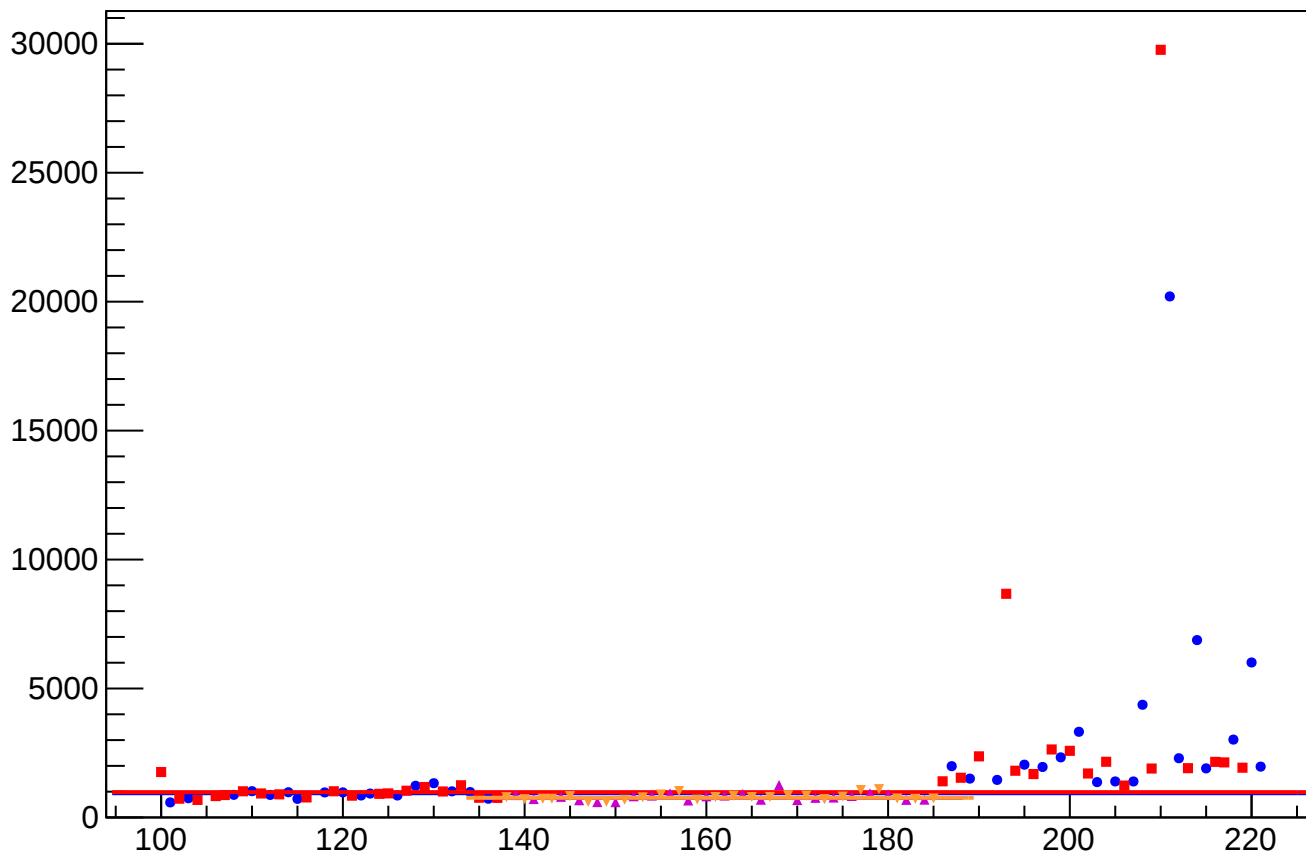
Right: -358.742 ± 217.422 χ^2/NDF : 73.5/70

In: 4.269 ± 157.185 χ^2/NDF : 61.6/57

Out: 15.882 ± 155.916 χ^2/NDF : 63.9/60

All: 10.122 ± 110.695 χ^2/NDF : 125.5/118

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 940.133+/-0.216 χ^2/NDF : 3691750.2/34

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

Right Out: 981.424+/-0.219 χ^2/NDF : 3014571.6/35

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

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

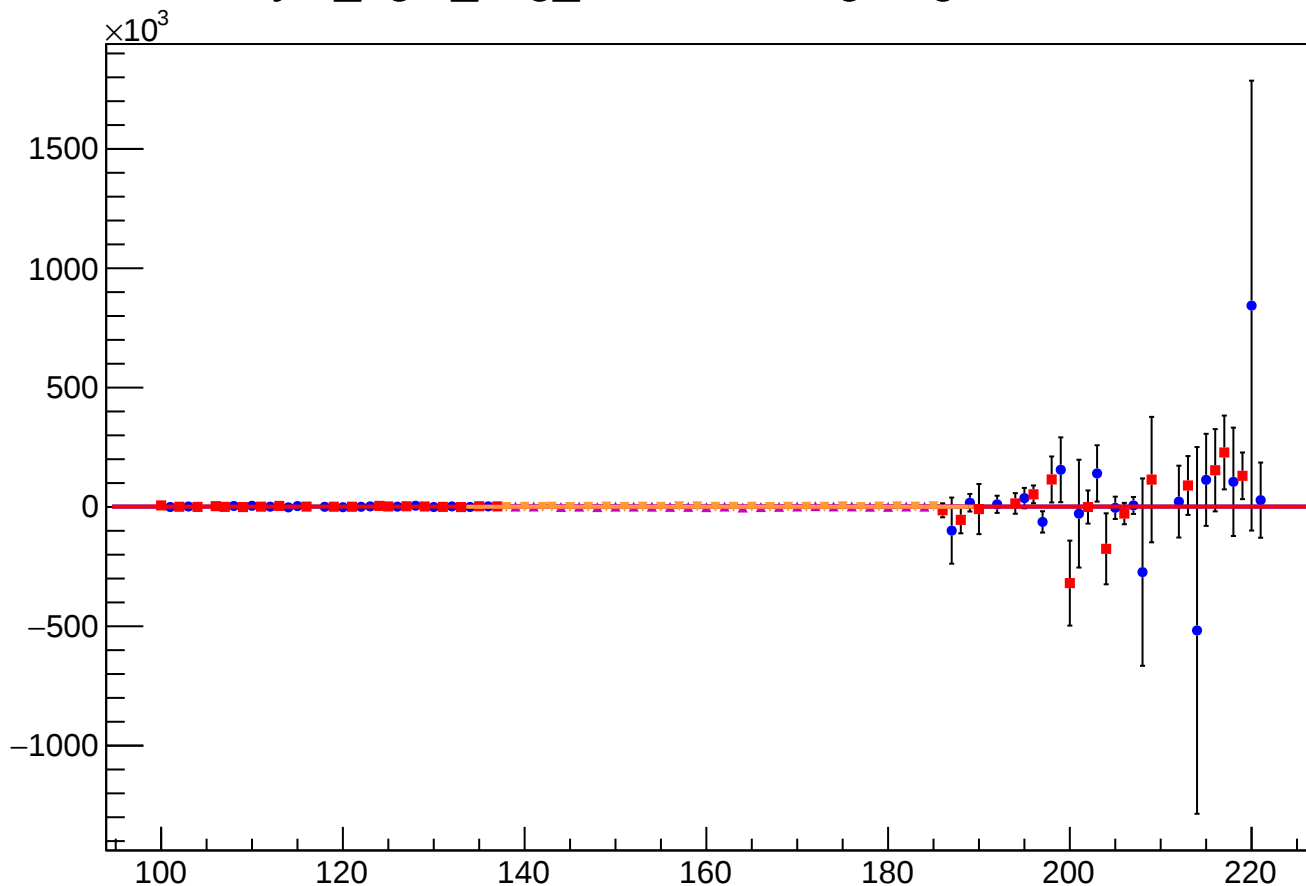
Right: 960.464+/-0.154 χ^2/NDF : 6724351.6/70

In: 803.455+/-0.111 χ^2/NDF : 5169651.2/57

Out: 818.372+/-0.110 χ^2/NDF : 4509921.7/60

All: 810.973+/-0.078 χ^2/NDF : 9688652.1/118

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1502.157+/-402.532 χ^2/NDF : 25.7/33

Left Out: 739.641+/-225.535 χ^2/NDF : 21.5/24

Right Out: 1491.362+/-400.590 χ^2/NDF : 27.1/33

Left In: 1124.587+/-230.065 χ^2/NDF : 25.4/22

Left: 928.287+/-161.055 χ^2/NDF : 48.3/47

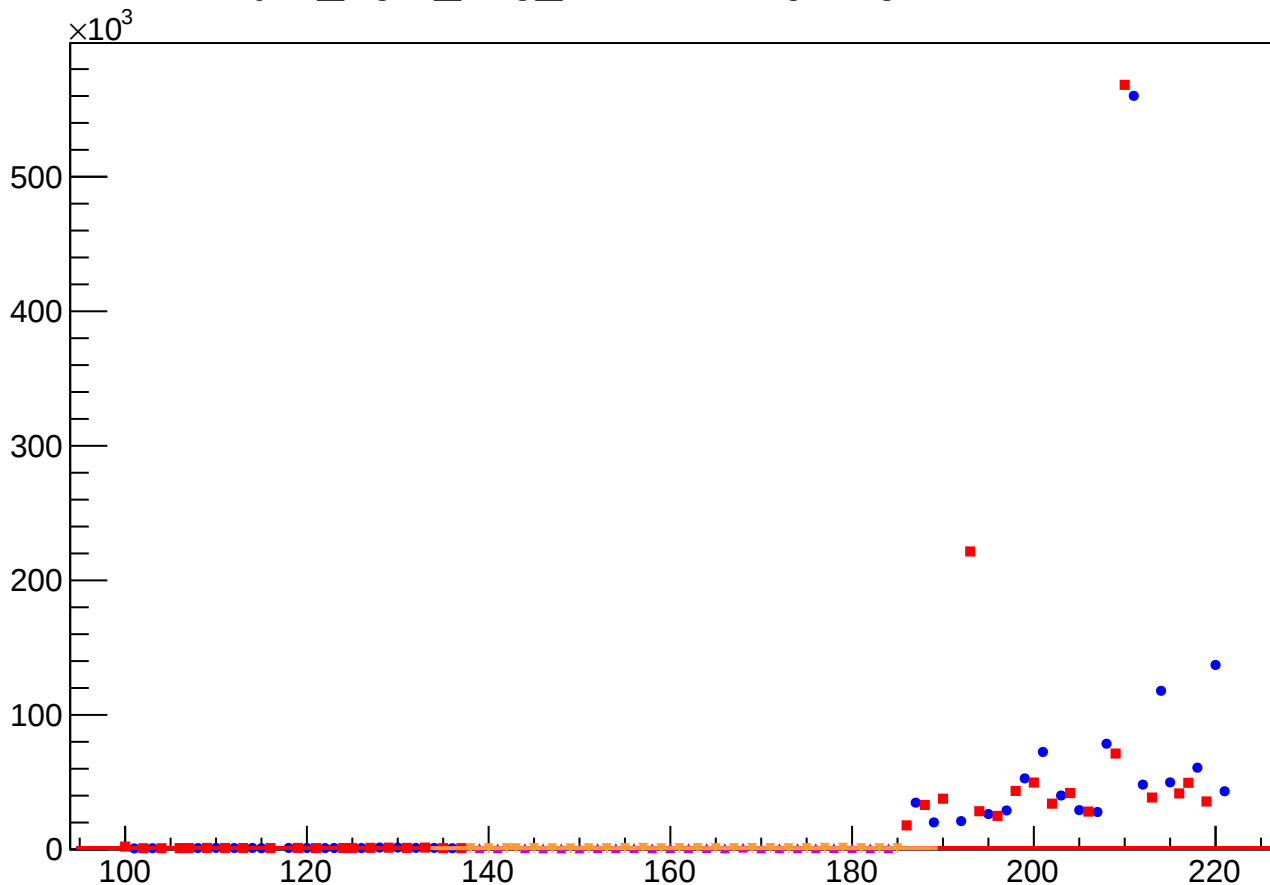
Right: 1496.733+/-283.944 χ^2/NDF : 52.8/67

In: 1217.556+/-199.742 χ^2/NDF : 51.7/56

Out: 920.569+/-196.528 χ^2/NDF : 51.3/58

All: 1066.654+/-140.089 χ^2/NDF : 104.2/115

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.854 $\pm$ 0.285 χ^2 /NDF: 6806189.3/34

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

Right Out: 1074.923 $\pm$ 0.283 χ^2 /NDF: 6501245.2/35

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

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

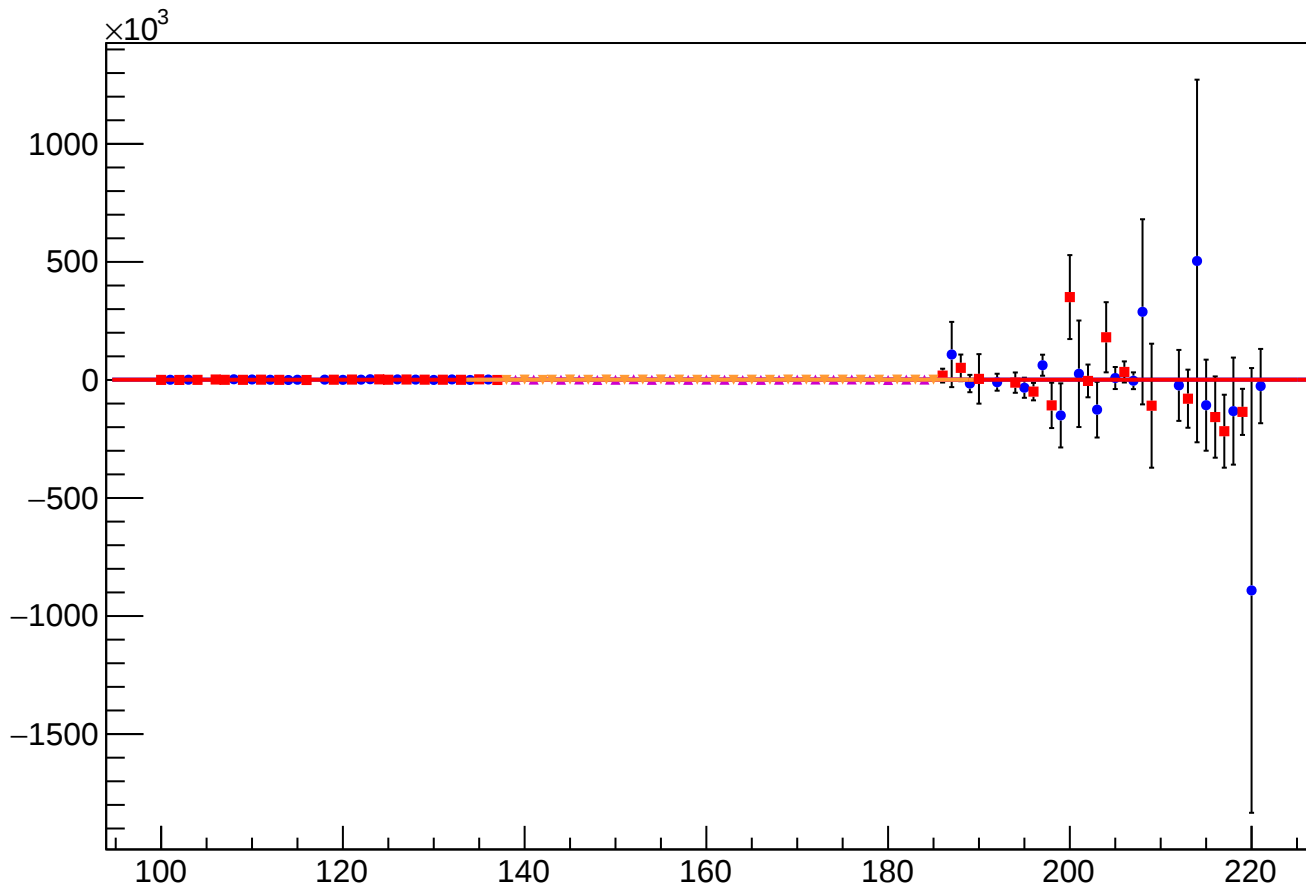
Right: 1057.473 $\pm$ 0.201 χ^2 /NDF: 13315061.2/70

In: 975.625 $\pm$ 0.141 χ^2 /NDF: 7317139.9/57

Out: 989.373 $\pm$ 0.139 χ^2 /NDF: 6984311.8/60

All: 982.610 $\pm$ 0.099 χ^2 /NDF: 14306266.0/13

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.113 $\pm$ 218.833 χ^2 /NDF: 20.5/33

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

Right Out: 964.579 $\pm$ 208.596 χ^2 /NDF: 27.9/33

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

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

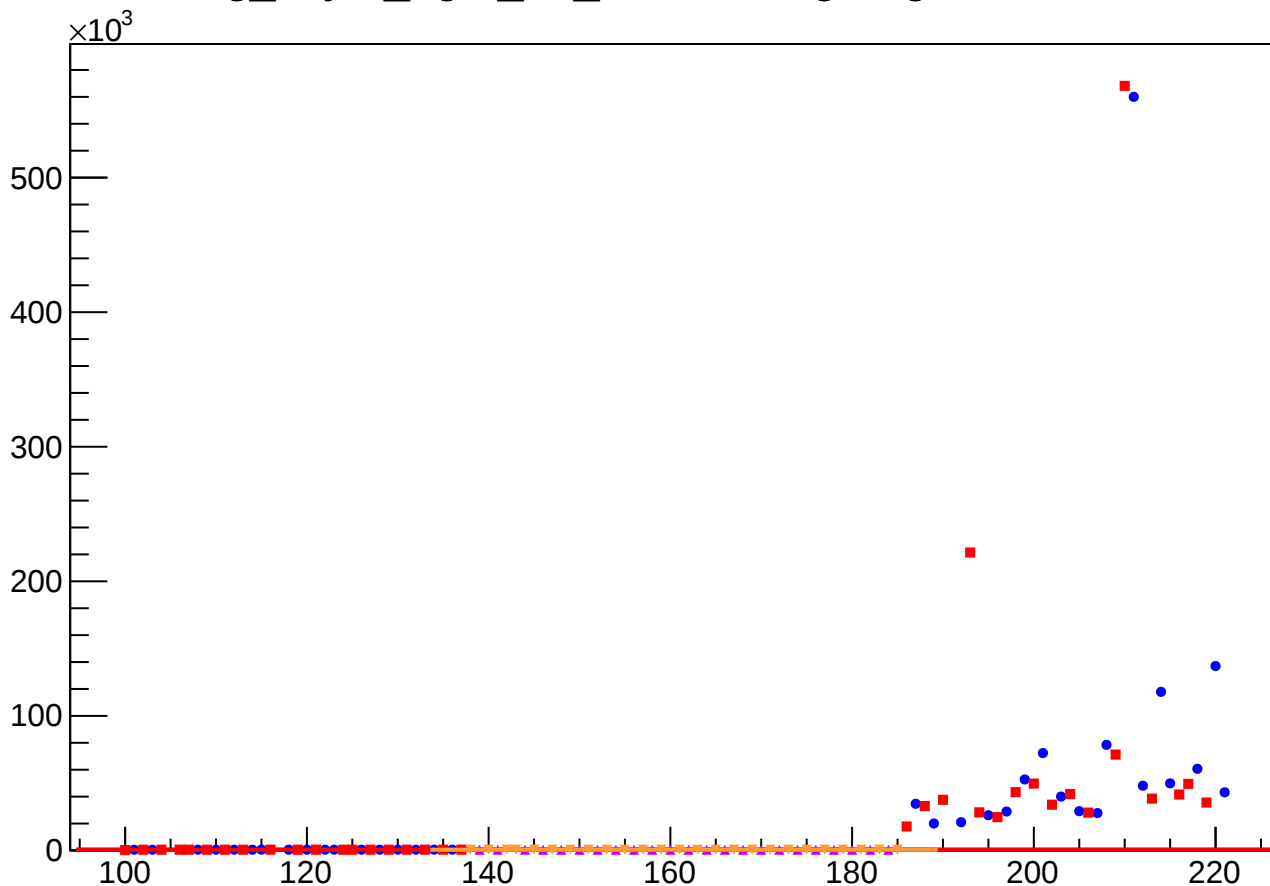
Right: 1145.261 $\pm$ 150.989 χ^2 /NDF: 49.9/67

In: 1231.336 $\pm$ 113.850 χ^2 /NDF:53.0/56

Out: 1053.273 $\pm$ 110.219 χ^2 /NDF:43.0/58

All: 1139.419 $\pm$ 79.189 χ^2 /NDF: 97.3/115

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.551 $\pm$ 0.155 χ^2 /NDF: 6684640.2/34

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

Right Out: 559.177 $\pm$ 0.147 χ^2 /NDF: 6612809.4/35

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

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

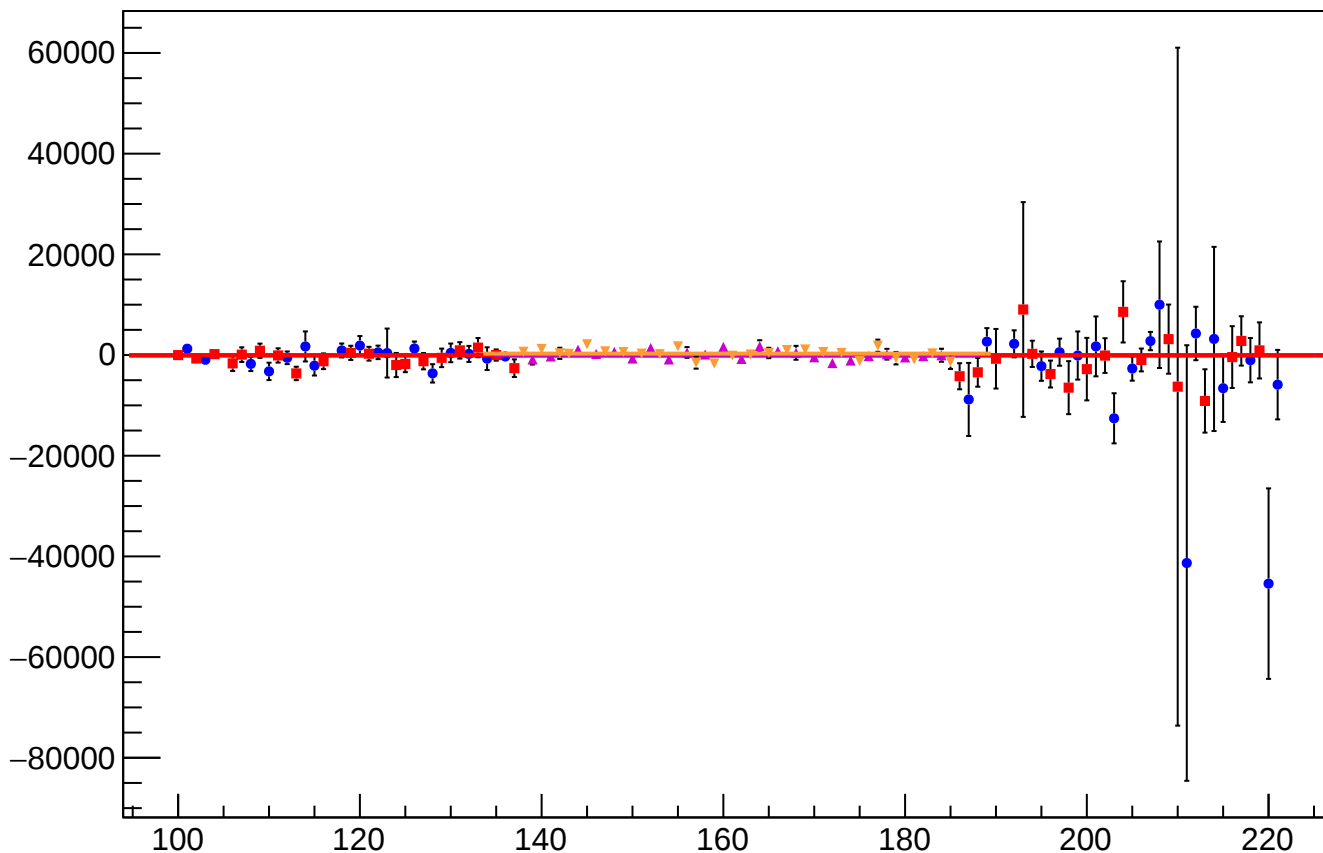
Right: 564.116 $\pm$ 0.107 χ^2 /NDF: 13299804.4/70

In: 560.832 $\pm$ 0.081 χ^2 /NDF: 6700269.8/57

Out: 558.400 $\pm$ 0.078 χ^2 /NDF: 6627633.1/60

All: 559.577 $\pm$ 0.056 χ^2 /NDF: 13328374.1/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -90.050 ± 307.790 $\chi^2/\text{NDF}: 40.5/34$

Left Out: 281.402 ± 180.478 $\chi^2/\text{NDF}: 26.8/24$

Right Out: -22.845 ± 38.922 $\chi^2/\text{NDF}: 28.7/35$

Left In: -7.306 ± 183.473 $\chi^2/\text{NDF}: 20.1/22$

Left: 139.424 ± 128.663 $\chi^2/\text{NDF}: 48.2/47$

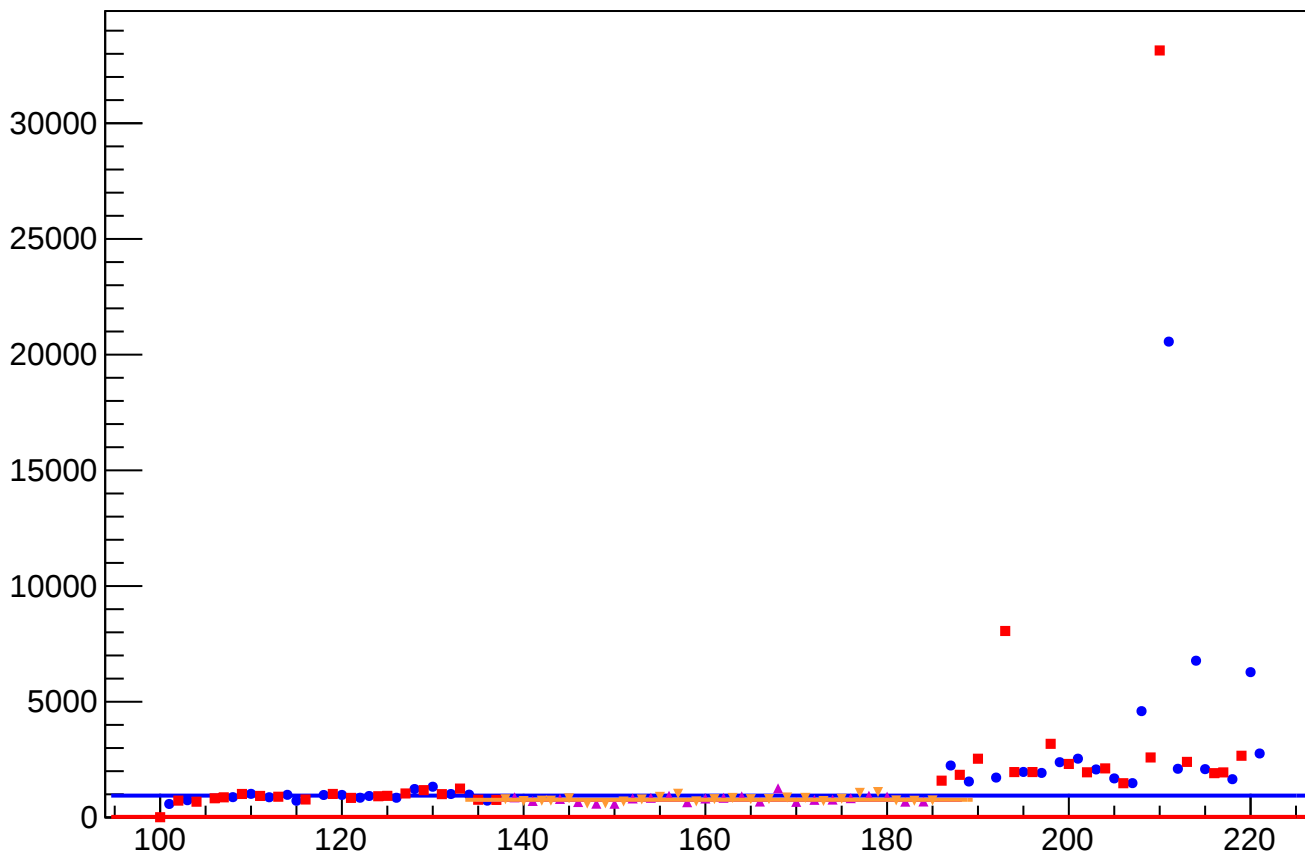
Right: -23.903 ± 38.615 $\chi^2/\text{NDF}: 69.3/70$

In: -28.999 ± 157.597 $\chi^2/\text{NDF}: 60.7/57$

Out: -9.323 ± 38.048 $\chi^2/\text{NDF}: 58.2/60$

All: -10.407 ± 36.985 $\chi^2/\text{NDF}: 118.9/118$

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 944.244+/-0.218 χ^2/NDF : 3822033.2/34

Left Out: 763.307+/-0.128 χ^2/NDF : 753728.9/24

Right Out: 24.979+/-0.028 χ^2/NDF : 22545671.3/35

Left In: 754.483+/-0.130 χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091 χ^2/NDF : 1687616.8/47

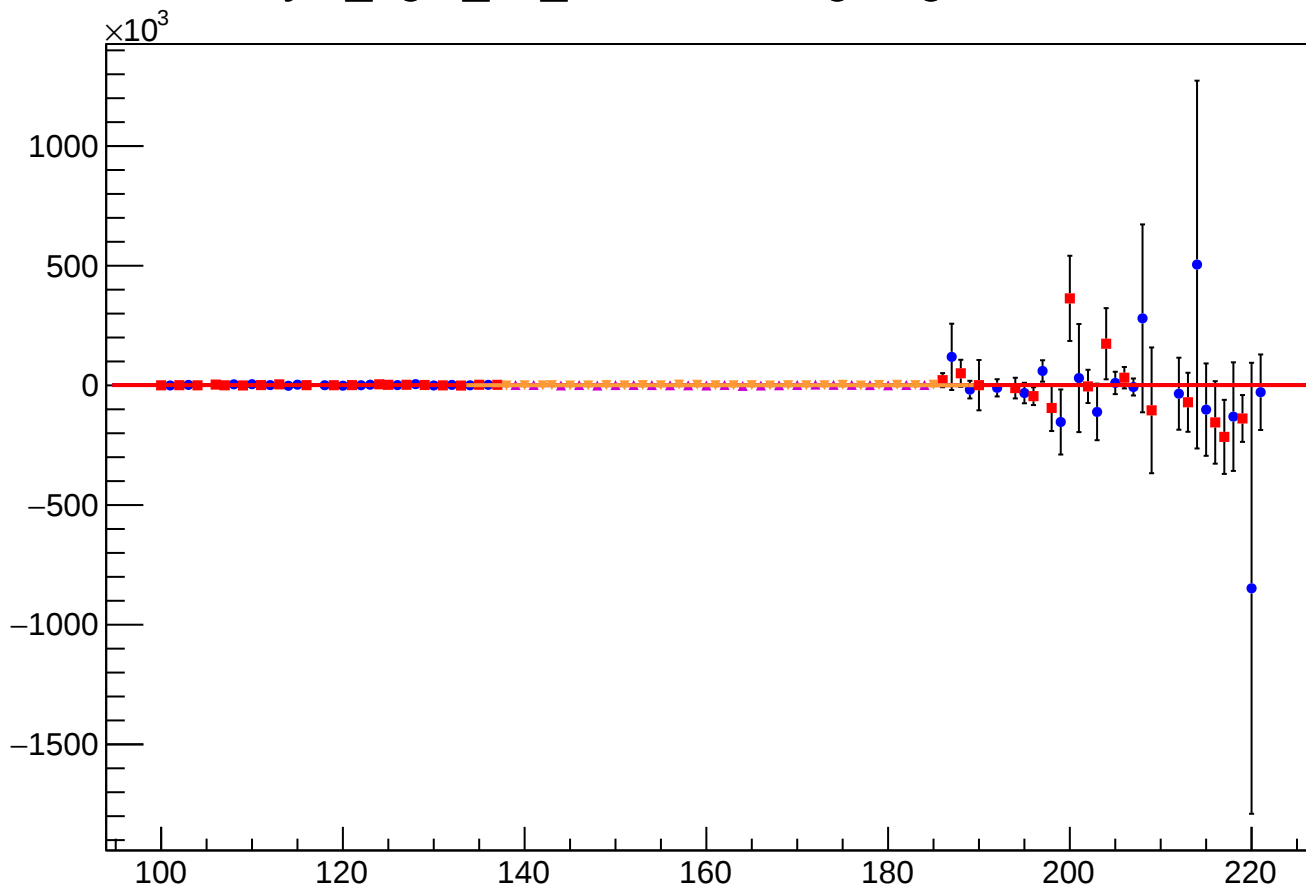
Right: 39.449+/-0.027 χ^2/NDF : 43927514.5/70

In: 804.234+/-0.111 χ^2/NDF : 5314483.6/57

Out: 57.793+/-0.027 χ^2/NDF : 55283573.9/60

All: 98.904+/-0.026 χ^2/NDF : 102993679.3/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.490 ± 402.755 $\chi^2/\text{NDF}: 26.0/33$

Left Out: 742.825 ± 225.658 $\chi^2/\text{NDF}: 20.2/24$

Right Out: 1285.716 ± 376.573 $\chi^2/\text{NDF}: 27.5/33$

Left In: 1176.288 ± 230.229 $\chi^2/\text{NDF}: 24.2/22$

Left: 955.211 ± 161.156 $\chi^2/\text{NDF}: 46.3/47$

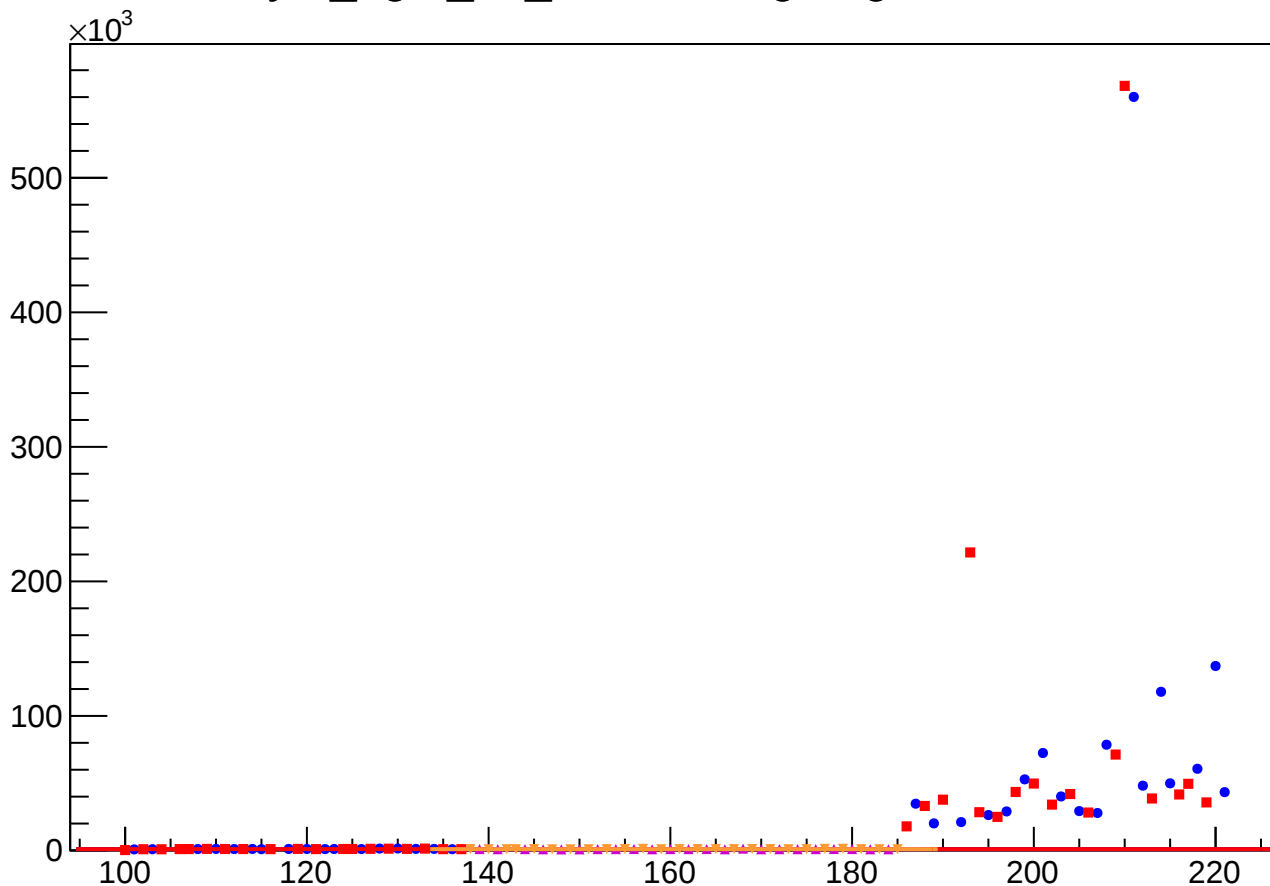
Right: 1392.426 ± 275.068 $\chi^2/\text{NDF}: 53.7/67$

In: 1259.583 ± 199.877 $\chi^2/\text{NDF}: 50.8/56$

Out: 886.264 ± 193.565 $\chi^2/\text{NDF}: 49.3/58$

All: 1066.936 ± 139.049 $\chi^2/\text{NDF}: 101.8/115$

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.438 $\pm$ 0.285 χ^2 /NDF: 6806958.4/34

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

Right Out: 979.238 $\pm$ 0.266 χ^2 /NDF: 7377932.1/35

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

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

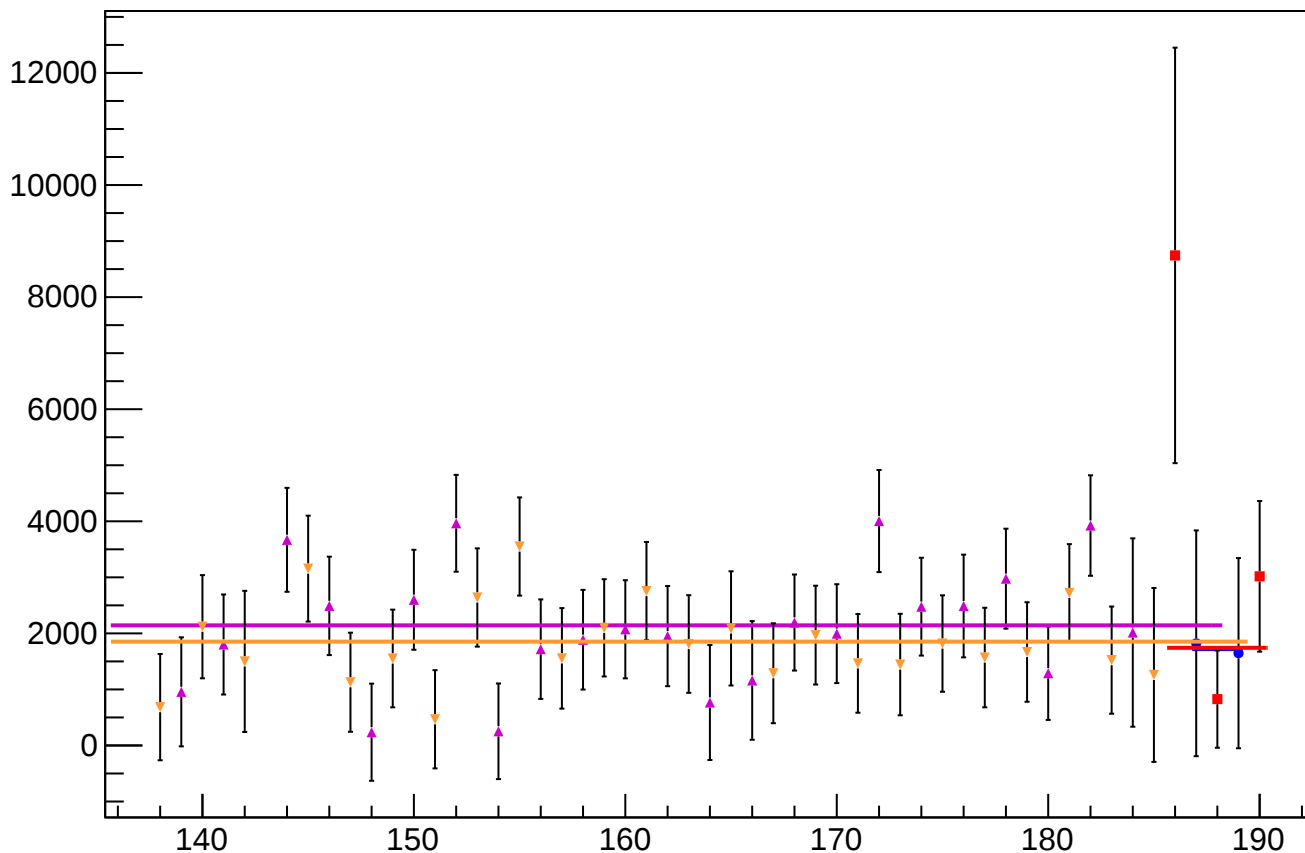
Right: 1007.784 $\pm$ 0.195 χ^2 /NDF: 14209530.6/70

In: 976.292 $\pm$ 0.141 χ^2 /NDF: 7317338.8/57

Out: 967.126 $\pm$ 0.137 χ^2 /NDF: 7743581.9/60

All: 971.562 $\pm$ 0.098 χ^2 /NDF: 15063091.1/117

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

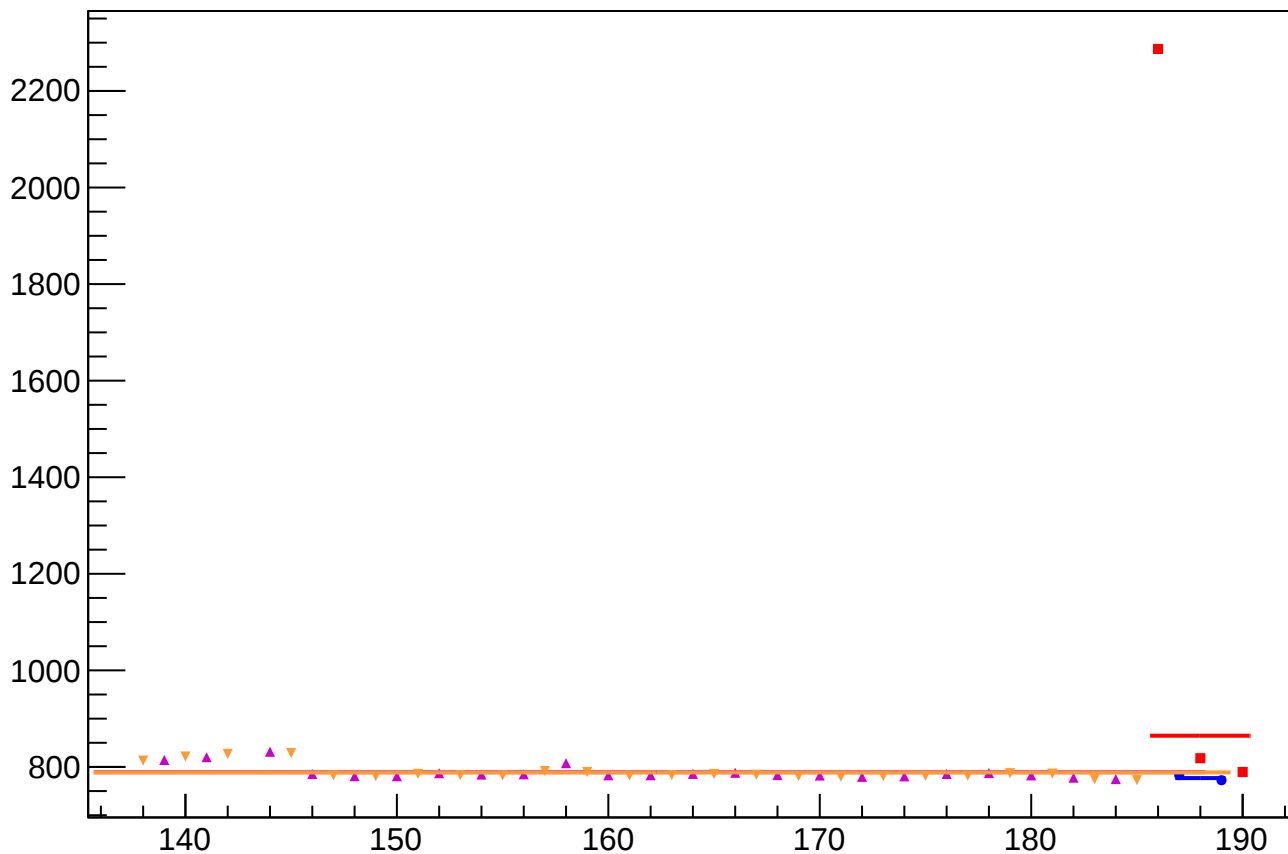
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

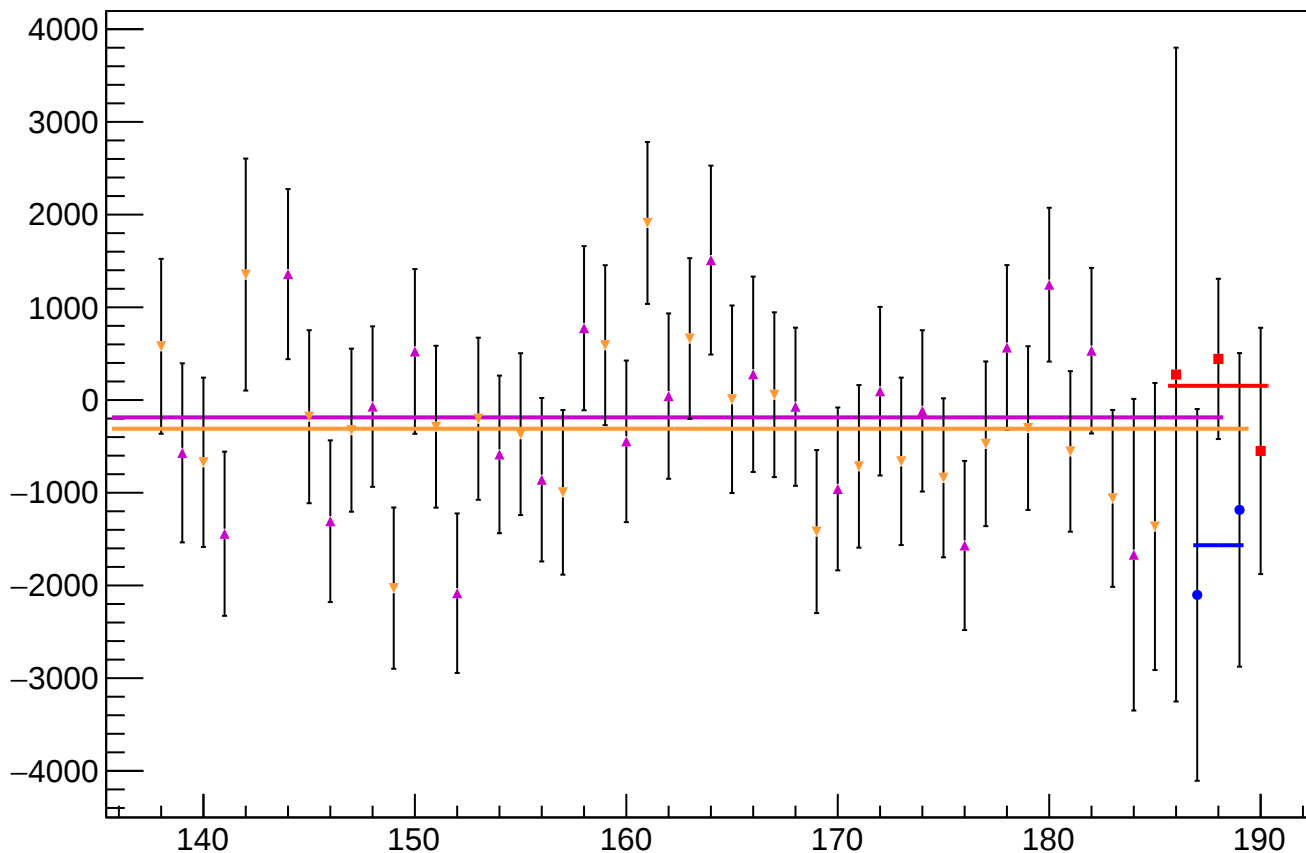
Right: 844.207 $\pm$ 0.443 χ^2/NDF : 313539.0/4

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

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

All: 791.315 $\pm$ 0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

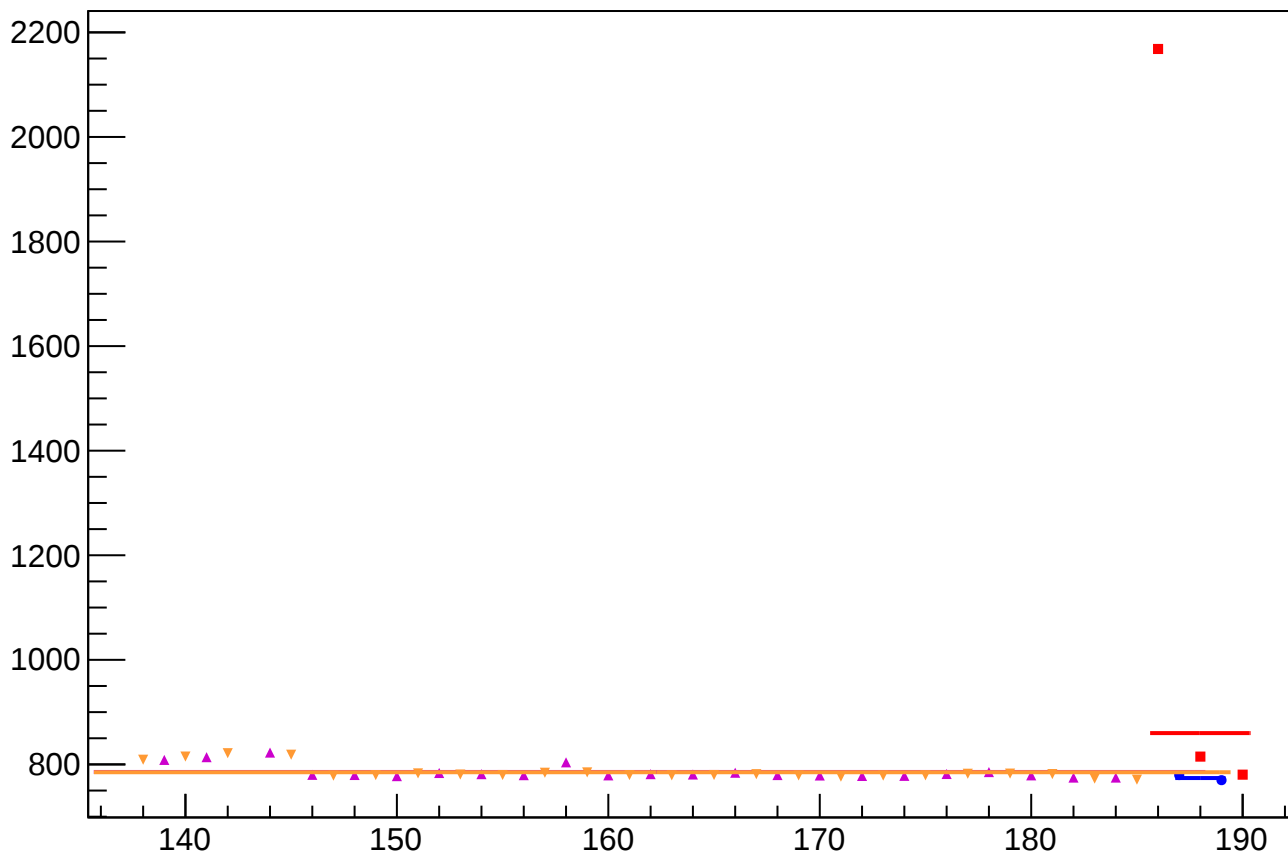
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

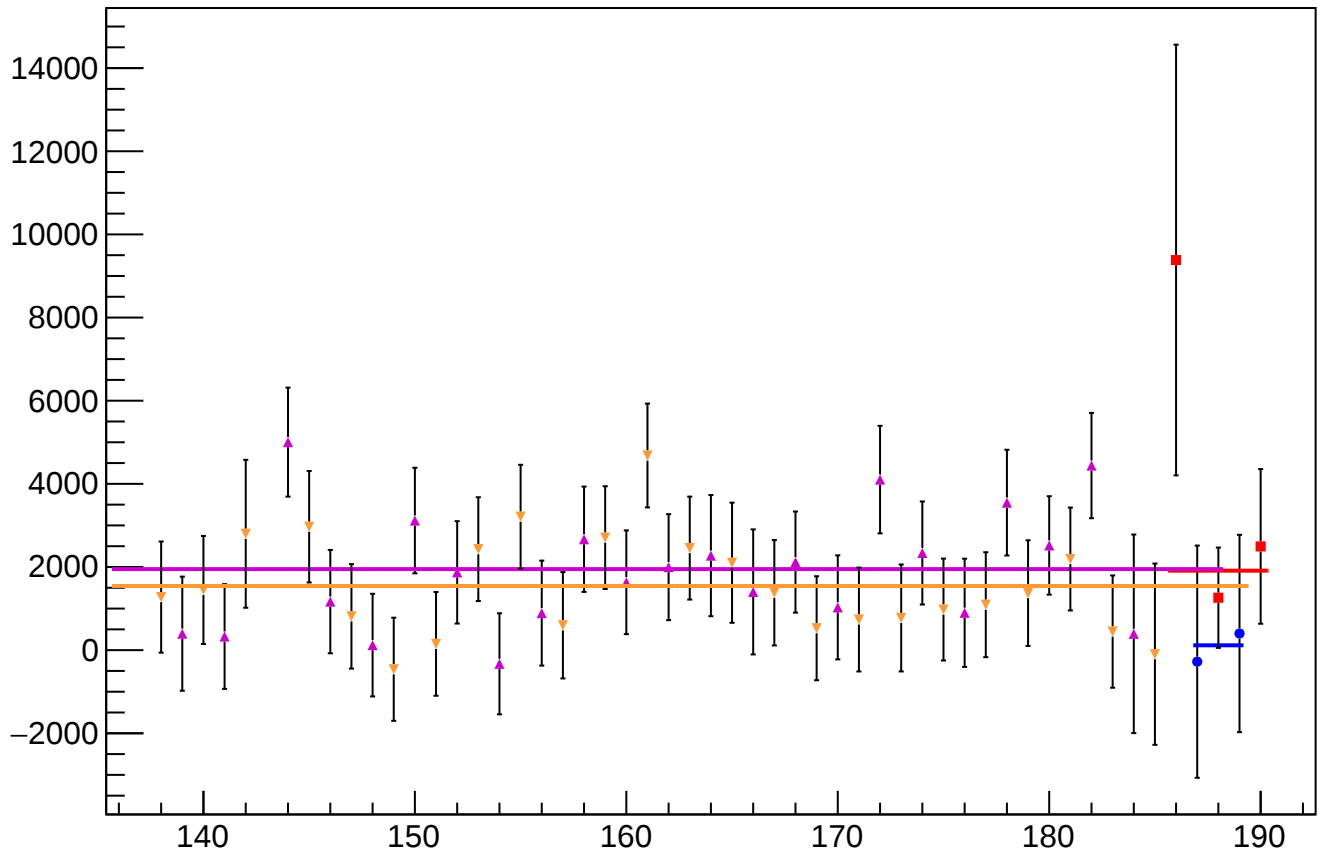
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

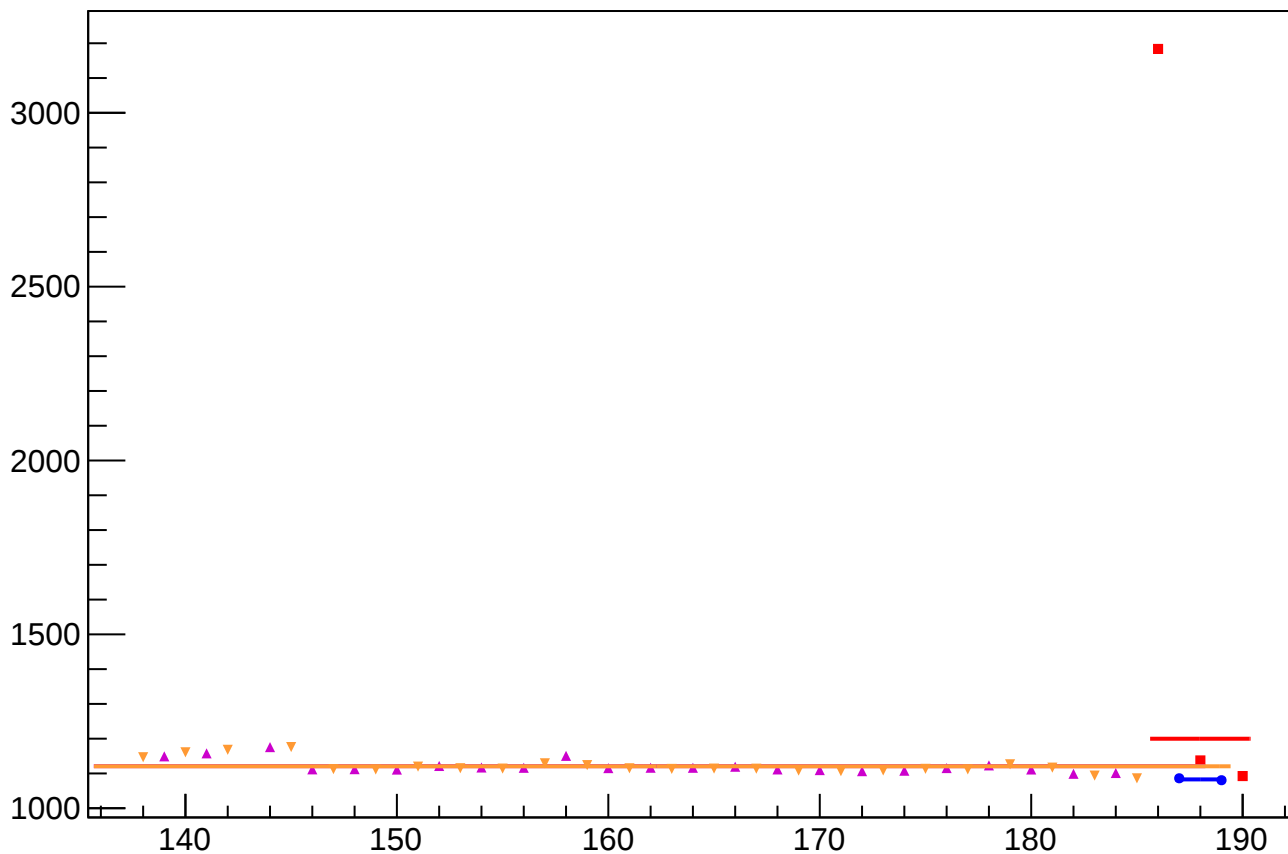
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866 $\pm$ 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

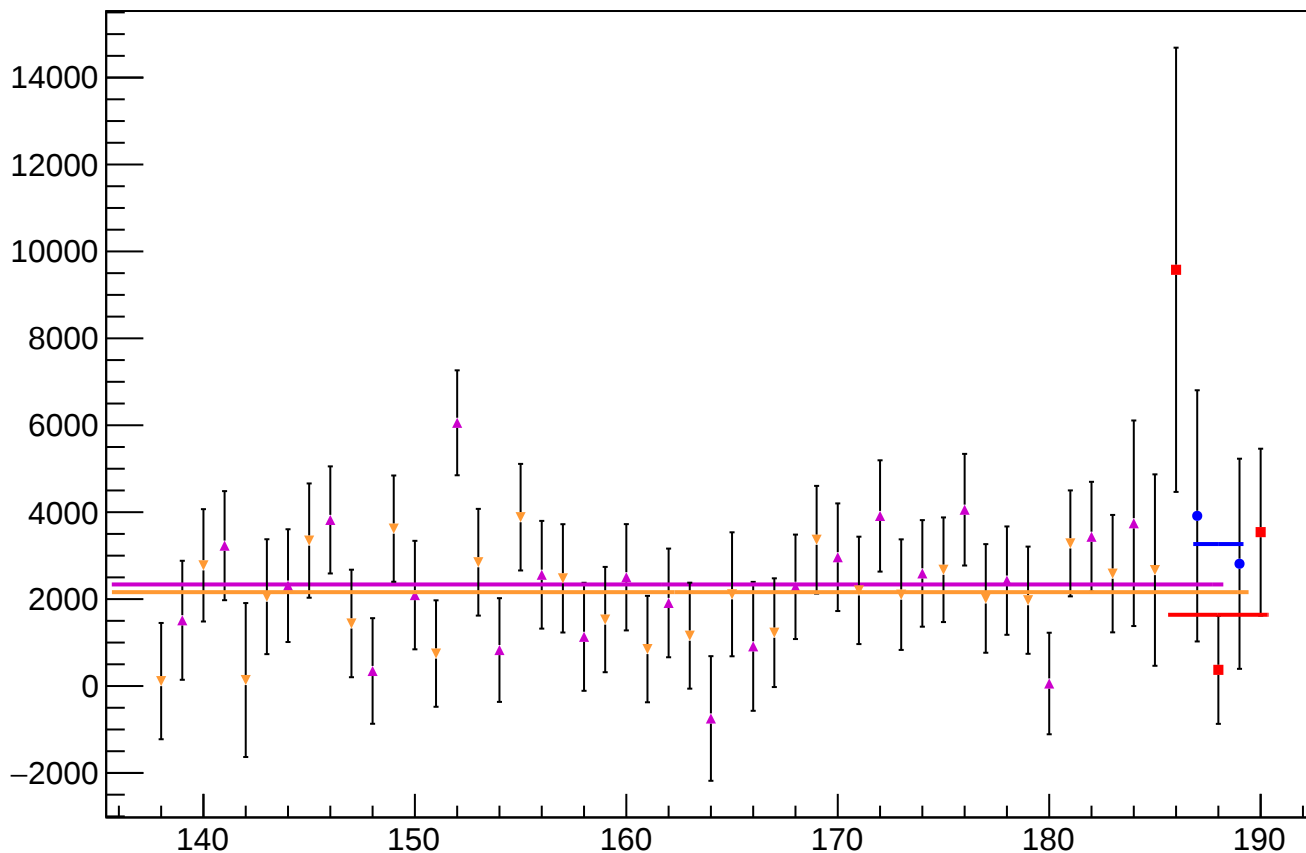
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

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

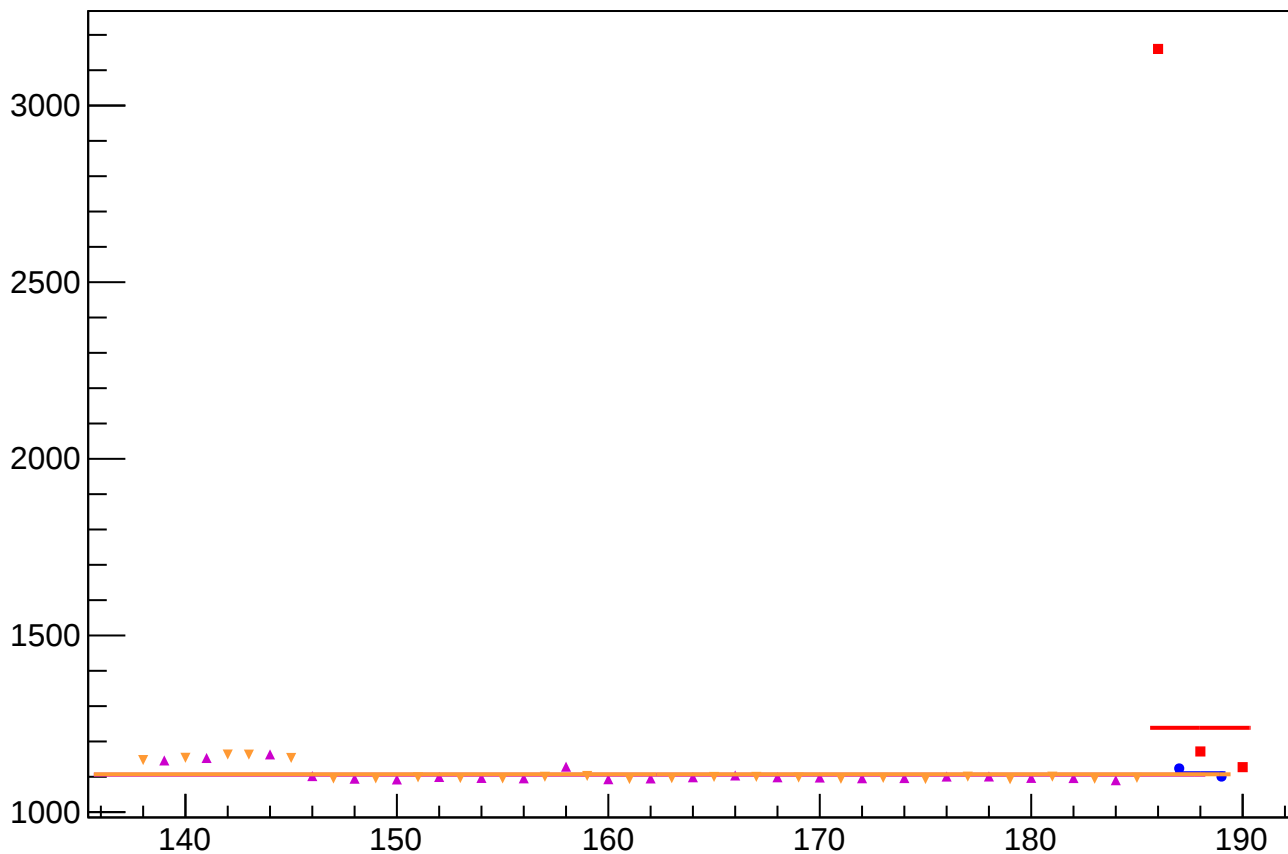
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

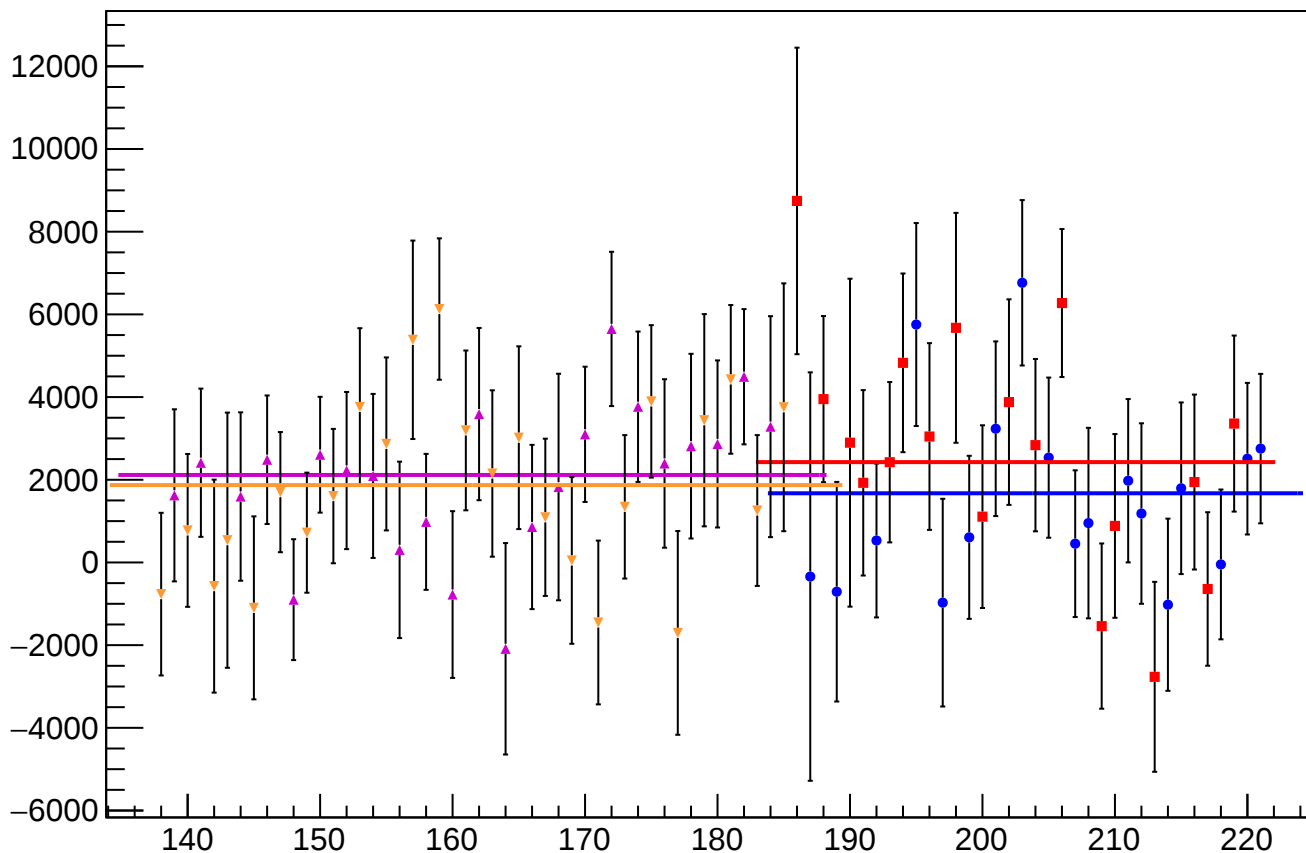
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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: 1673.212+/-491.667 χ^2/NDF : 16.5/17

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

Right Out: 2426.995+/-521.708 χ^2/NDF : 24.1/17

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

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

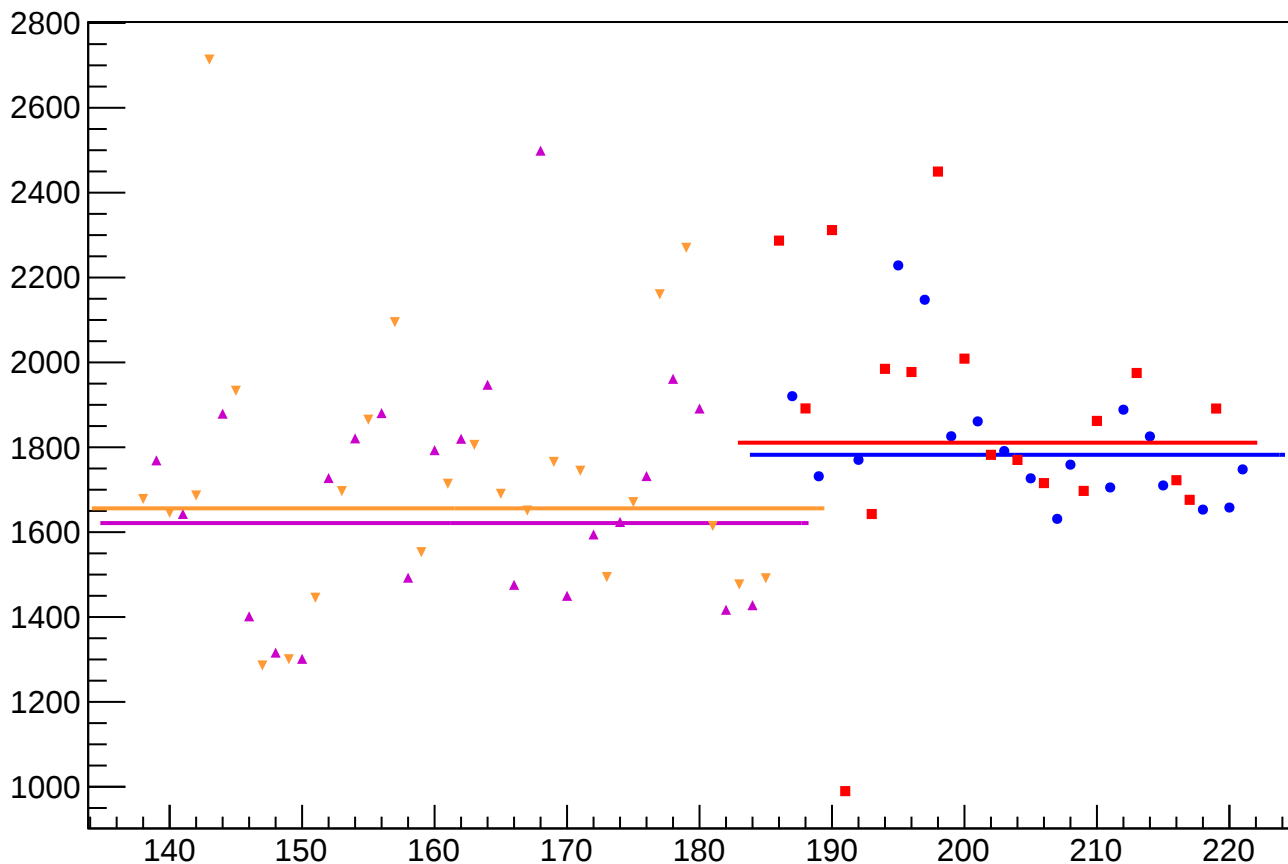
Right: 2027.778+/-357.810 χ^2/NDF : 41.7/35

In: 1943.455+/-306.981 χ^2/NDF : 35.8/40

Out: 2071.830+/-313.231 χ^2/NDF : 50.9/42

All: 2006.349+/-219.245 χ^2/NDF : 86.8/83

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1782.290+/-0.348 χ^2/NDF : 162024.3/17

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

Right Out: 1810.812+/-0.369 χ^2/NDF : 538153.9/17

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

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

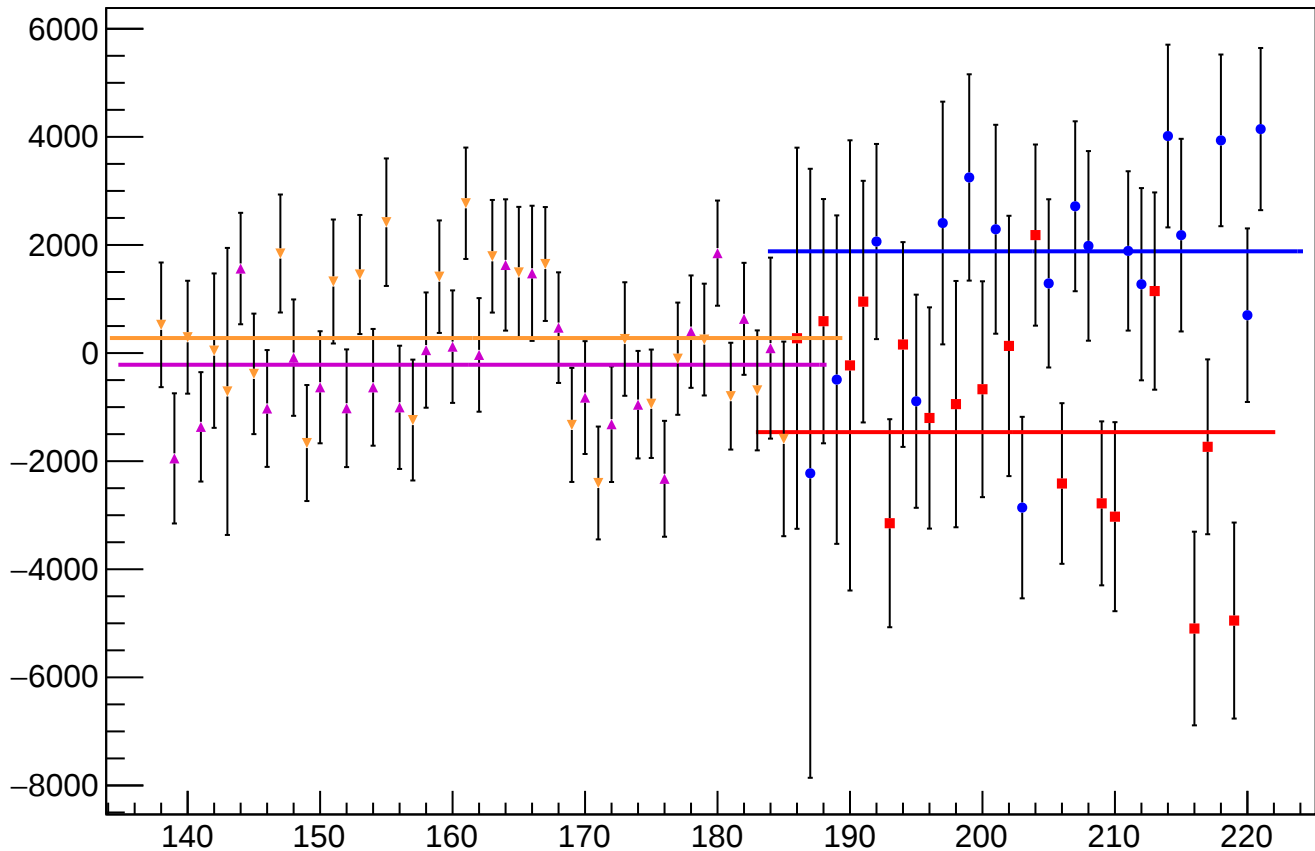
Right: 1795.707+/-0.253 χ^2/NDF : 703344.3/35

In: 1684.131+/-0.217 χ^2/NDF : 1067982.1/40

Out: 1711.882+/-0.221 χ^2/NDF : 1561181.5/42

All: 1697.727+/-0.155 χ^2/NDF : 2637171.1/83

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1882.569 $\pm$ 422.167 χ^2/NDF : 18.4/17

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

Right Out: -1462.724 $\pm$ 456.162 χ^2/NDF : 21.1/17

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

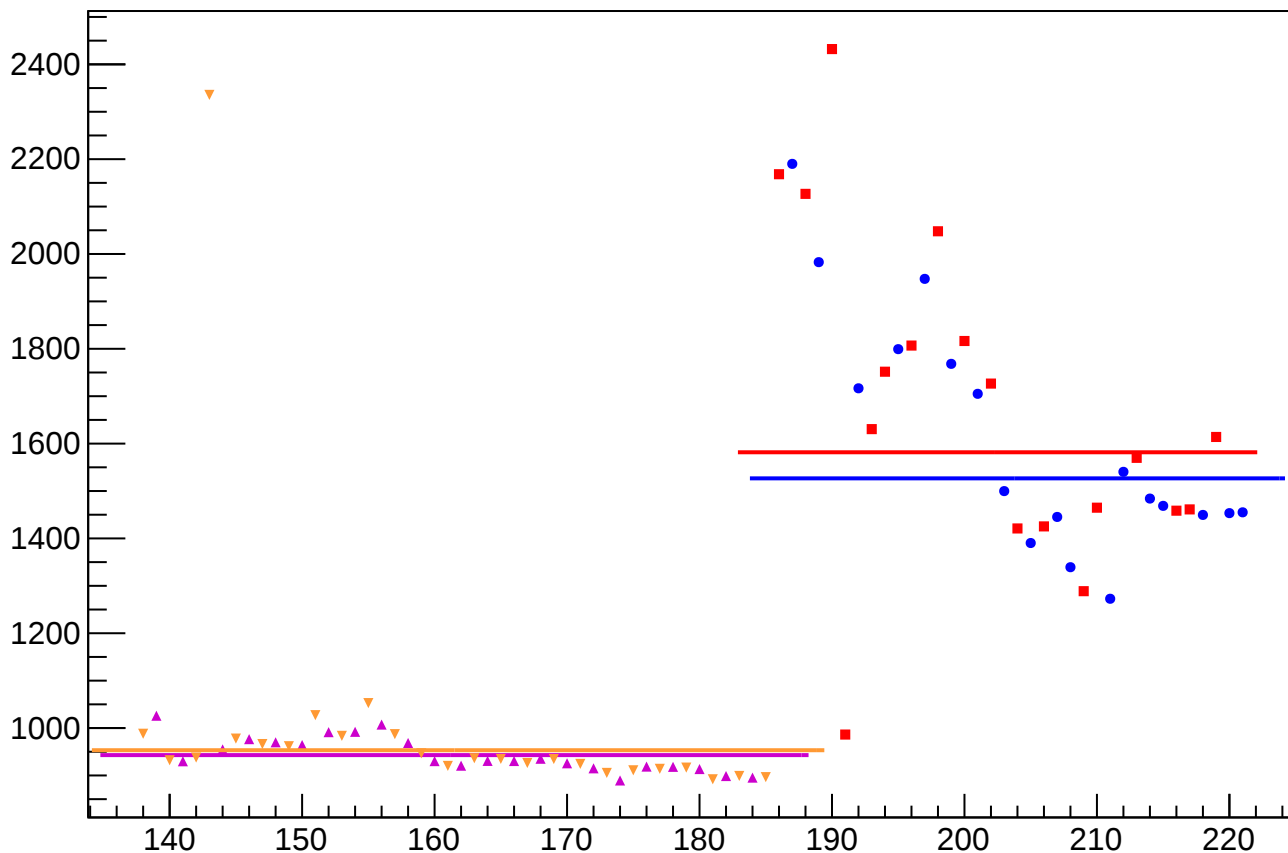
Right: 339.205 $\pm$ 309.839 χ^2/NDF : 68.4/35

In: 250.069 $\pm$ 198.972 χ^2/NDF : 62.0/40

Out: -59.104 $\pm$ 200.763 χ^2/NDF : 71.2/42

All: 96.868 $\pm$ 141.323 χ^2/NDF : 134.4/83

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1526.694 $\pm$ 0.299 χ^2 /NDF: 372806.7/17

Left Out: 953.221 $\pm$ 0.158 χ^2 /NDF: 606273.1/24

Right Out: 1581.716 $\pm$ 0.323 χ^2 /NDF: 702583.6/17

Left In: 942.927 $\pm$ 0.160 χ^2 /NDF: 48402.9/22

Left: 948.120 $\pm$ 0.112 χ^2 /NDF: 656777.0/47

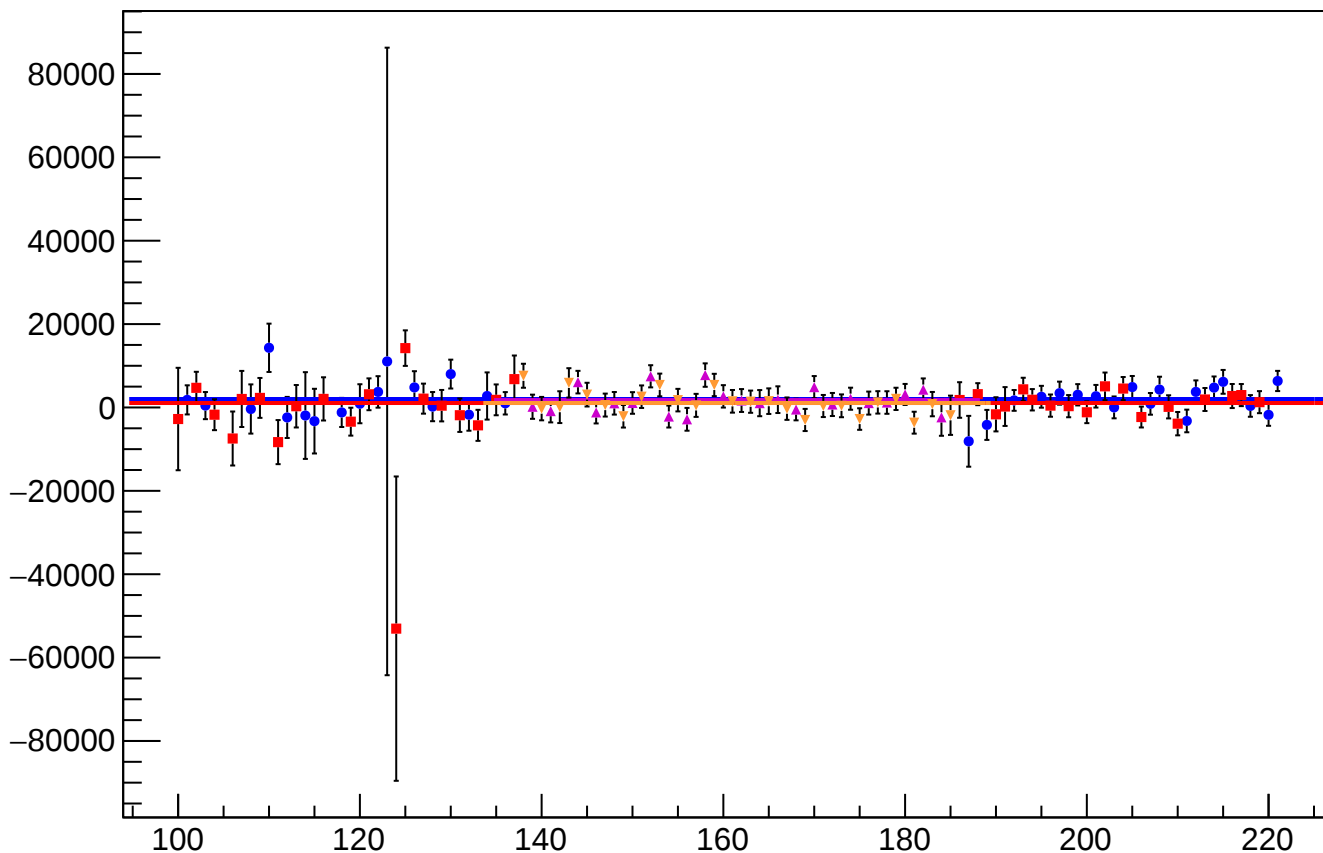
Right: 1552.078 $\pm$ 0.219 χ^2 /NDF: 1091063.8/35

In: 1072.601 $\pm$ 0.141 χ^2 /NDF: 3395920.2/40

Out: 1074.960 $\pm$ 0.142 χ^2 /NDF: 4370056.0/42

All: 1073.770 $\pm$ 0.100 χ^2 /NDF: 7766115.5/83

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 2030.286 $\pm$ 547.660 χ^2 /NDF: 34.1/34

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

Right Out: 1067.843 $\pm$ 564.459 χ^2 /NDF: 36.7/36

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

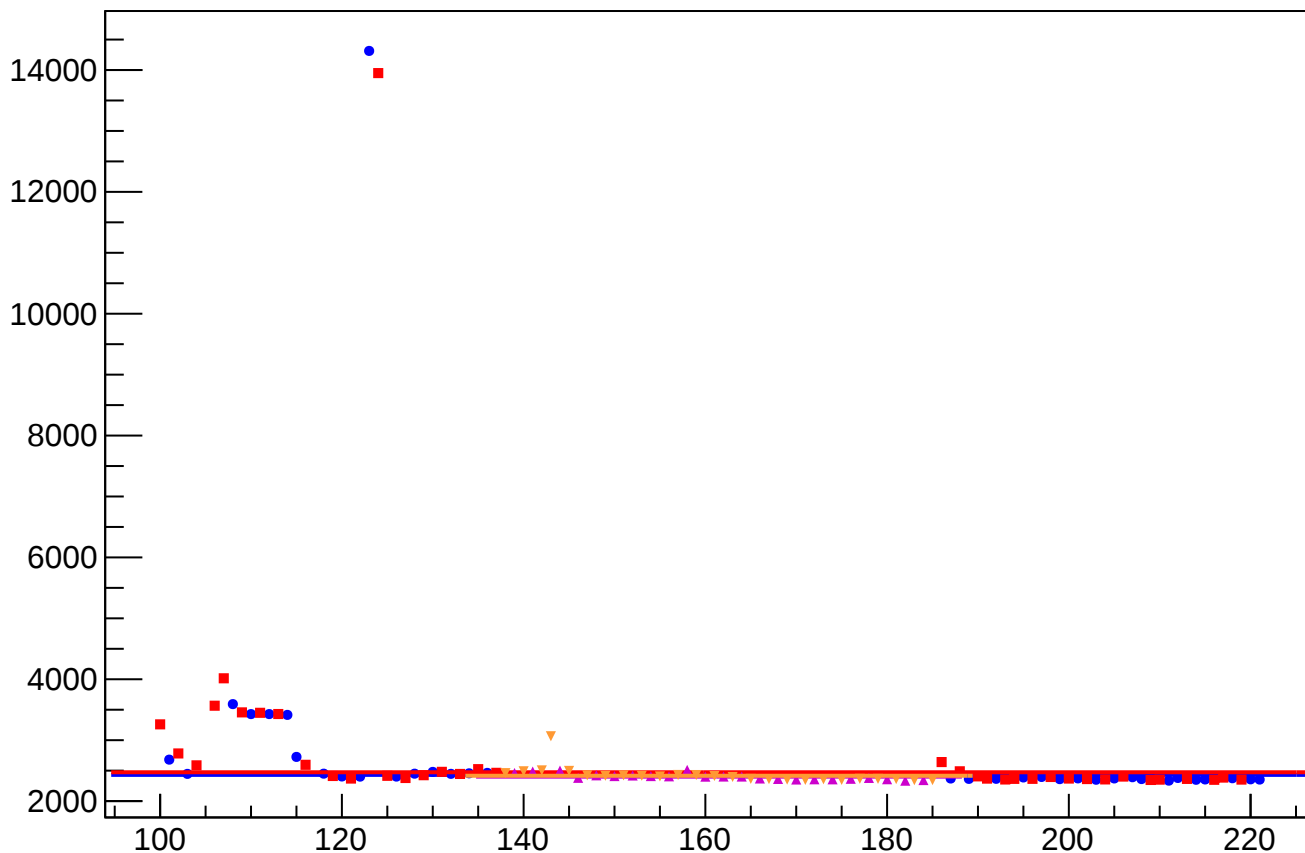
Right: 1563.599 $\pm$ 393.059 χ^2 /NDF: 72.3/71

In: 1910.052 $\pm$ 396.860 χ^2 /NDF:58.2/57

Out: 1072.953 $\pm$ 398.972 χ^2 /NDF:60.3/61

All: 1493.724 $\pm$ 281.366 χ^2 /NDF: 120.7/119

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2430.517+/-0.387 χ^2/NDF : 321405.3/34

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

Right Out: 2473.368+/-0.399 χ^2/NDF : 660086.1/36

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

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

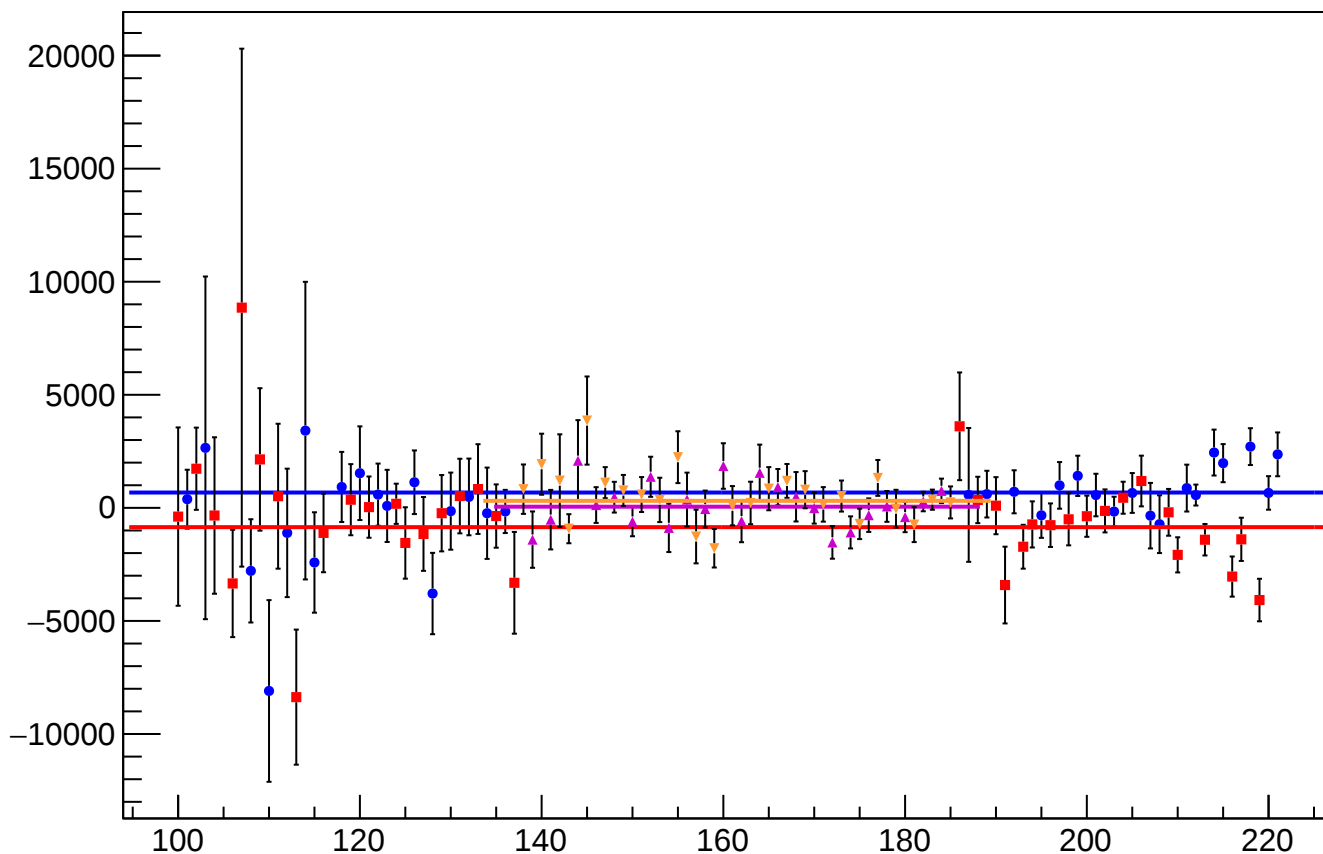
Right: 2451.295+/-0.278 χ^2/NDF : 987428.4/71

In: 2416.700+/-0.281 χ^2/NDF : 337833.7/57

Out: 2444.670+/-0.282 χ^2/NDF : 753052.8/61

All: 2430.611+/-0.199 χ^2/NDF : 1095827.4/111

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 678.149 $\pm$ 185.113 χ^2/NDF : 37.5/34

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

Right Out: -852.934 $\pm$ 199.353 χ^2/NDF : 54.6/36

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

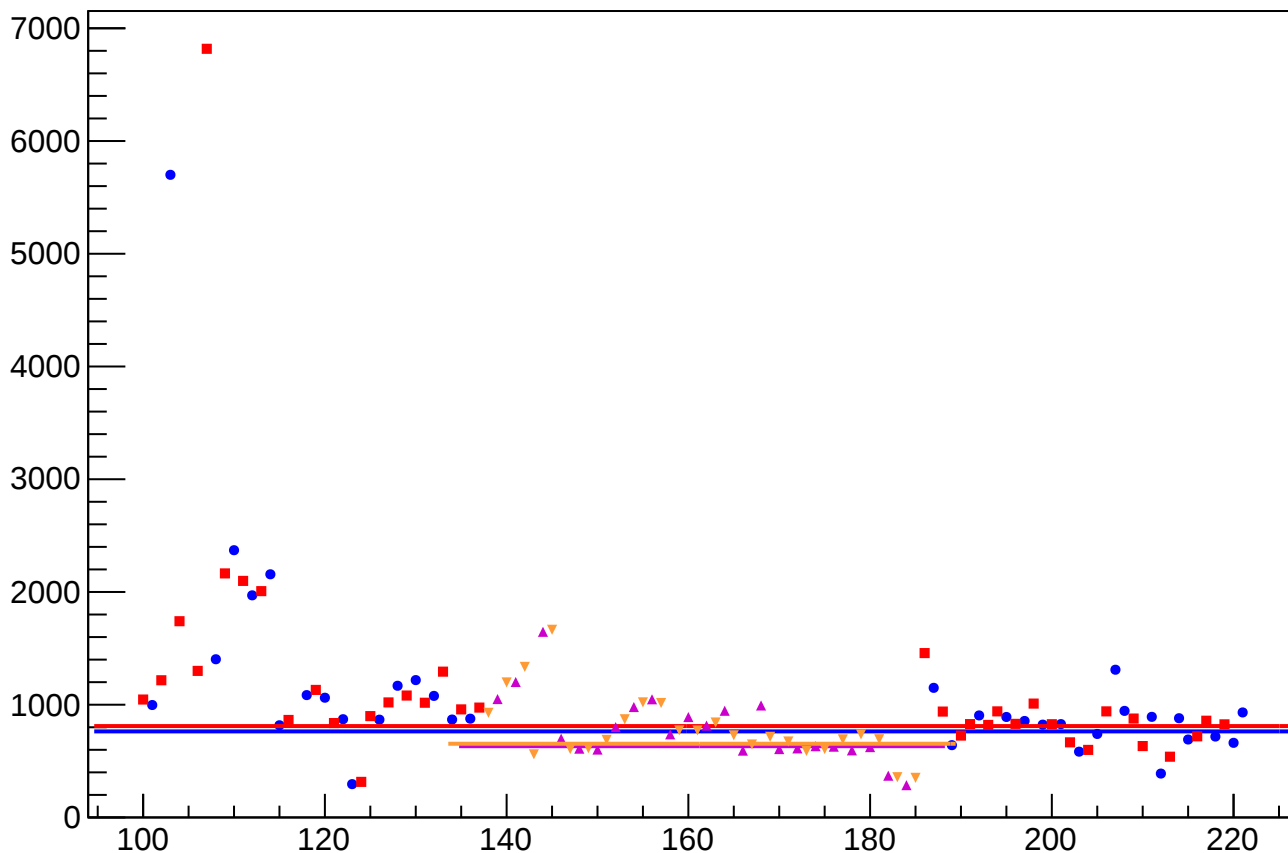
Right: -30.763 $\pm$ 135.650 χ^2/NDF : 123.8/71

In: 322.769 $\pm$ 121.800 χ^2/NDF :67.8/57

Out: -147.343 $\pm$ 125.088 χ^2/NDF :105.0/61

All: 93.974 $\pm$ 87.265 χ^2/NDF : 180.1/119

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 763.363+/-0.131 χ^2/NDF : 4644073.9/34

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

Right Out: 810.535+/-0.141 χ^2/NDF : 3857548.6/36

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

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

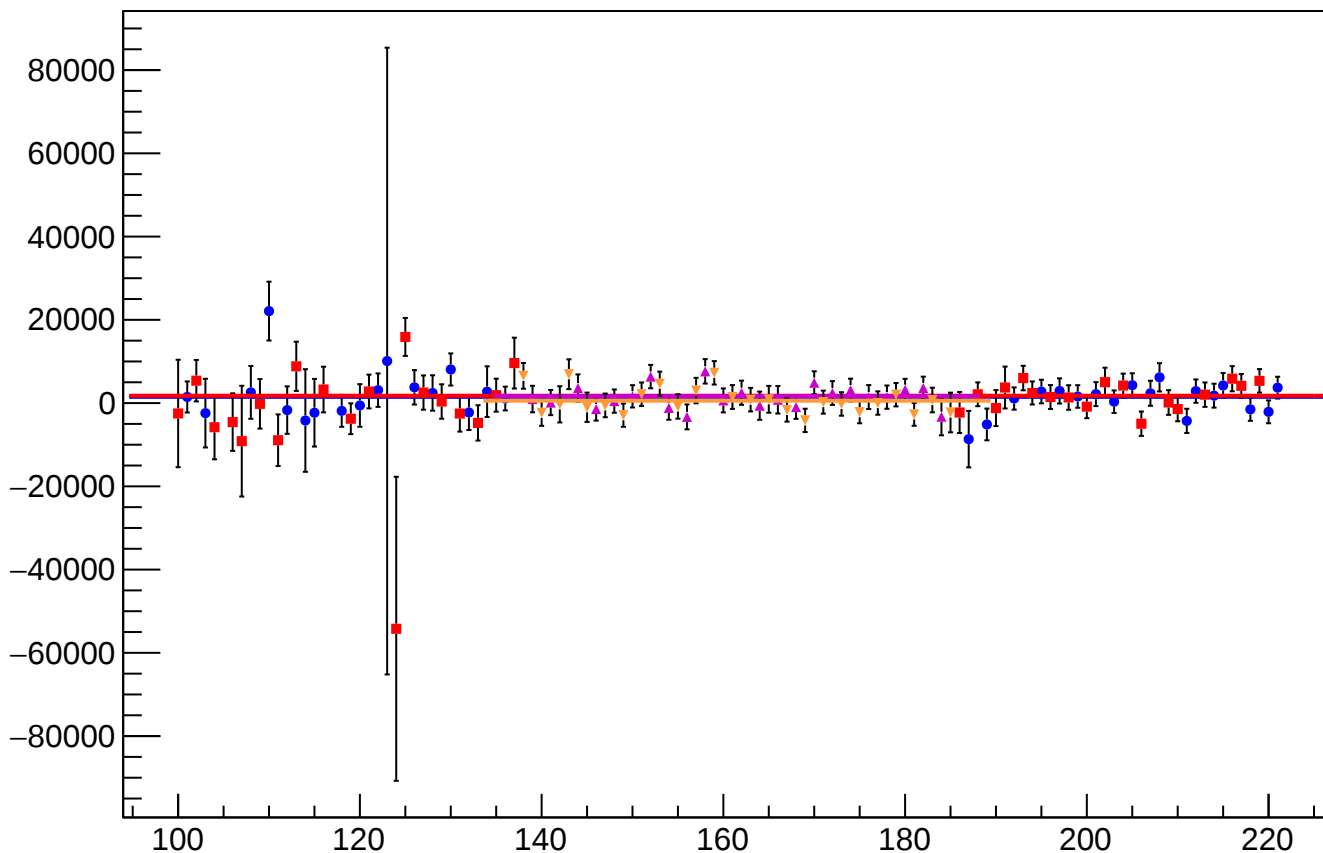
Right: 785.204+/-0.096 χ^2/NDF : 8561755.6/71

In: 688.901+/-0.086 χ^2/NDF : 9157601.3/57

Out: 715.512+/-0.088 χ^2/NDF : 7861746.7/61

All: 701.852+/-0.062 χ^2/NDF : 17065809.0/131

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1504.603 $\pm$ 597.138 χ^2 /NDF: 32.3/34

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

Right Out: 1767.020 $\pm$ 619.847 χ^2 /NDF: 44.0/36

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

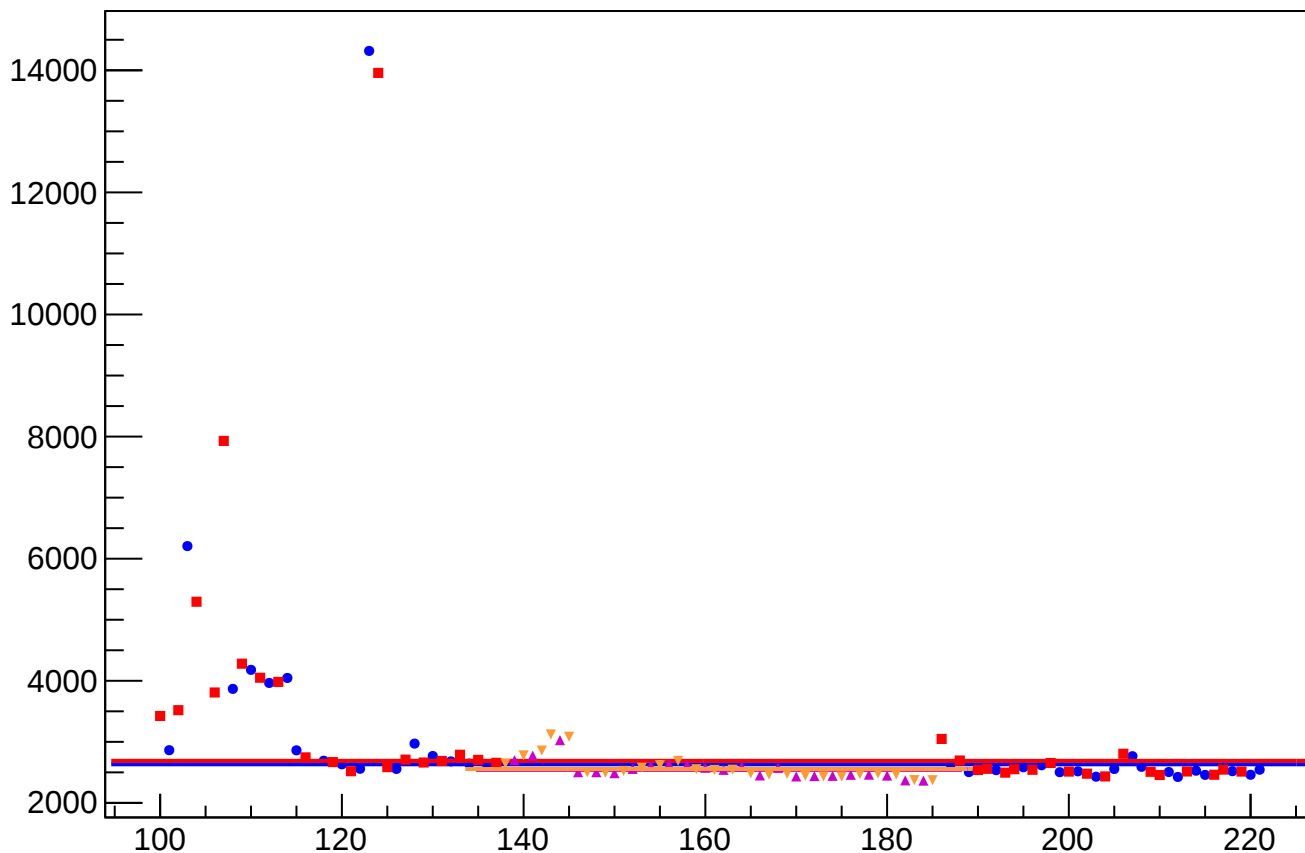
Right: 1630.917 $\pm$ 430.045 χ^2 /NDF: 76.3/71

In: 1590.208 $\pm$ 426.753 χ^2 /NDF: 50.5/57

Out: 1151.859 $\pm$ 430.058 χ^2 /NDF: 71.2/61

All: 1372.724 $\pm$ 302.922 χ^2 /NDF: 122.2/119

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2632.182 $\pm$ 0.422 χ^2 /NDF: 824892.4/34

Left Out: 2555.279 $\pm$ 0.422 χ^2 /NDF:154743.6/24

Right Out: 2688.938 $\pm$ 0.438 χ^2 /NDF: 1304024.2/36

Left In: 2540.988 $\pm$ 0.431 χ^2 /NDF:94756.7/22

Left: 2548.287 $\pm$ 0.302 χ^2 /NDF: 250060.8/47

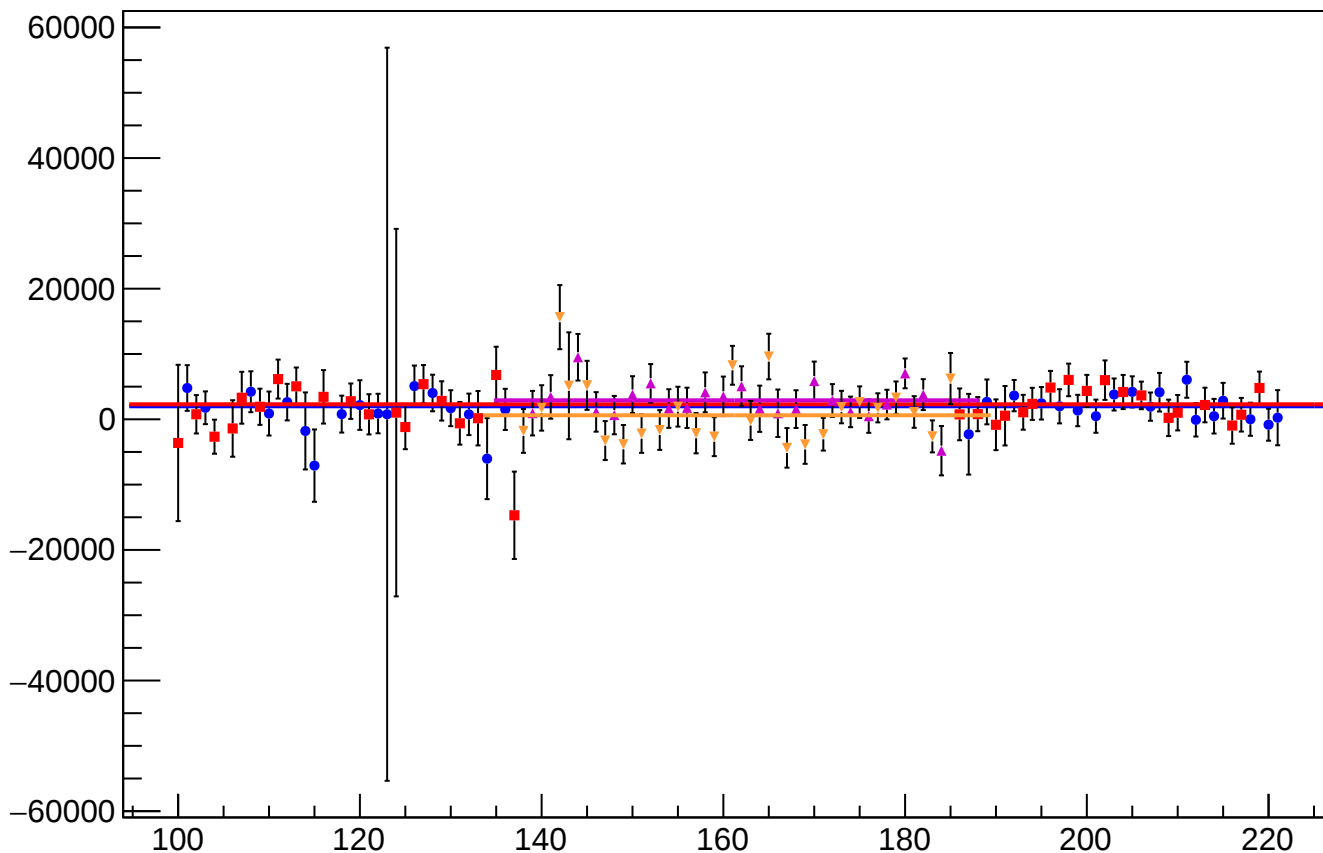
Right: 2659.501 $\pm$ 0.304 χ^2 /NDF: 2137613.6/71

In: 2587.565 $\pm$ 0.302 χ^2 /NDF:942470.8/57

Out: 2619.620 $\pm$ 0.304 χ^2 /NDF:1506997.2/61

All: 2603.468 $\pm$ 0.214 χ^2 /NDF: 2455066.6/11

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1995.931 $\pm$ 497.427 χ^2 /NDF: 16.8/34

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

Right Out: 2299.705 $\pm$ 498.191 χ^2 /NDF: 30.1/36

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

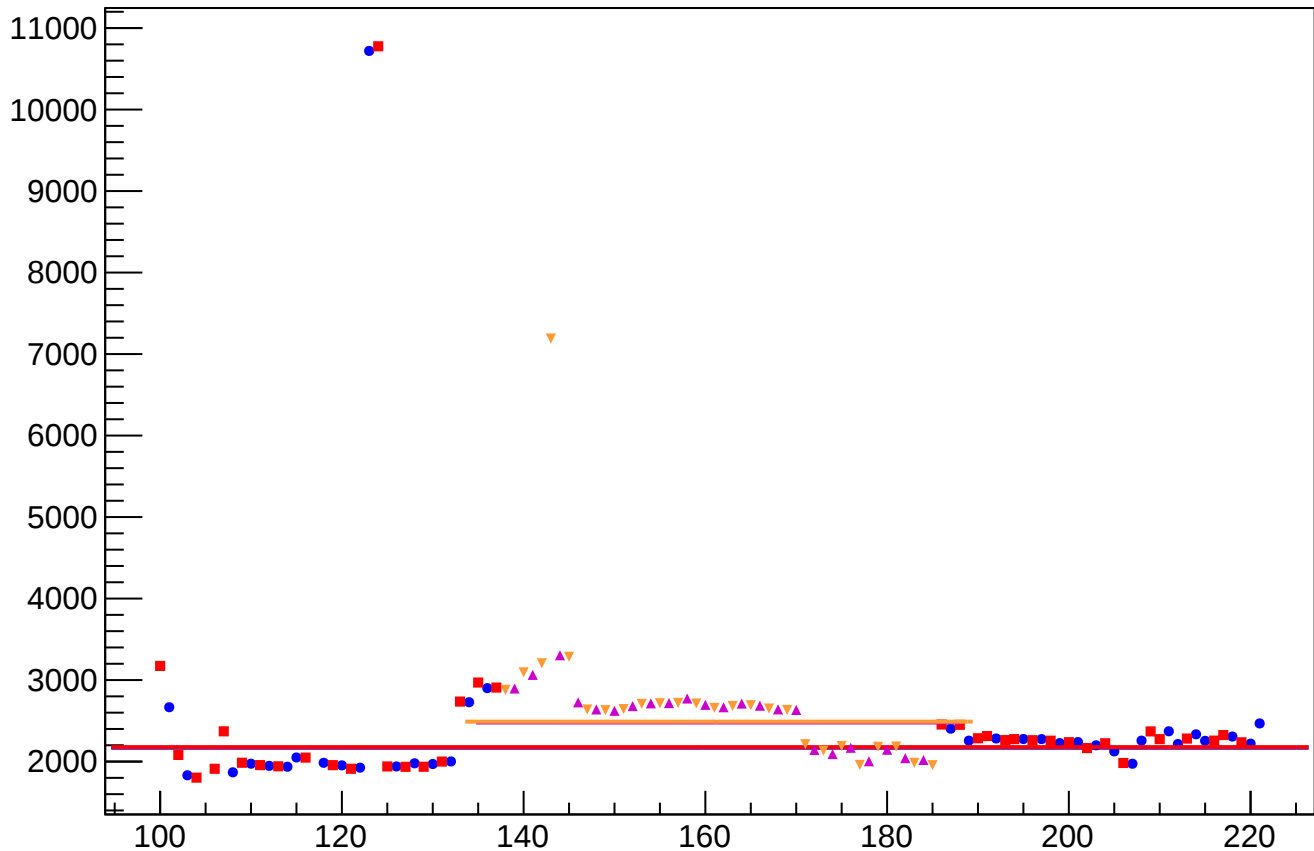
Right: 2147.585 $\pm$ 352.004 χ^2 /NDF: 47.1/71

In: 2368.147 $\pm$ 382.855 χ^2 /NDF:35.6/57

Out: 1600.018 $\pm$ 380.951 χ^2 /NDF:80.0/61

All: 1982.167 $\pm$ 270.044 χ^2 /NDF: 117.6/119

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2170.092 $\pm$ 0.352 χ^2 /NDF: 428567.7/34

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

Right Out: 2176.591 $\pm$ 0.352 χ^2 /NDF: 577722.4/36

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

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

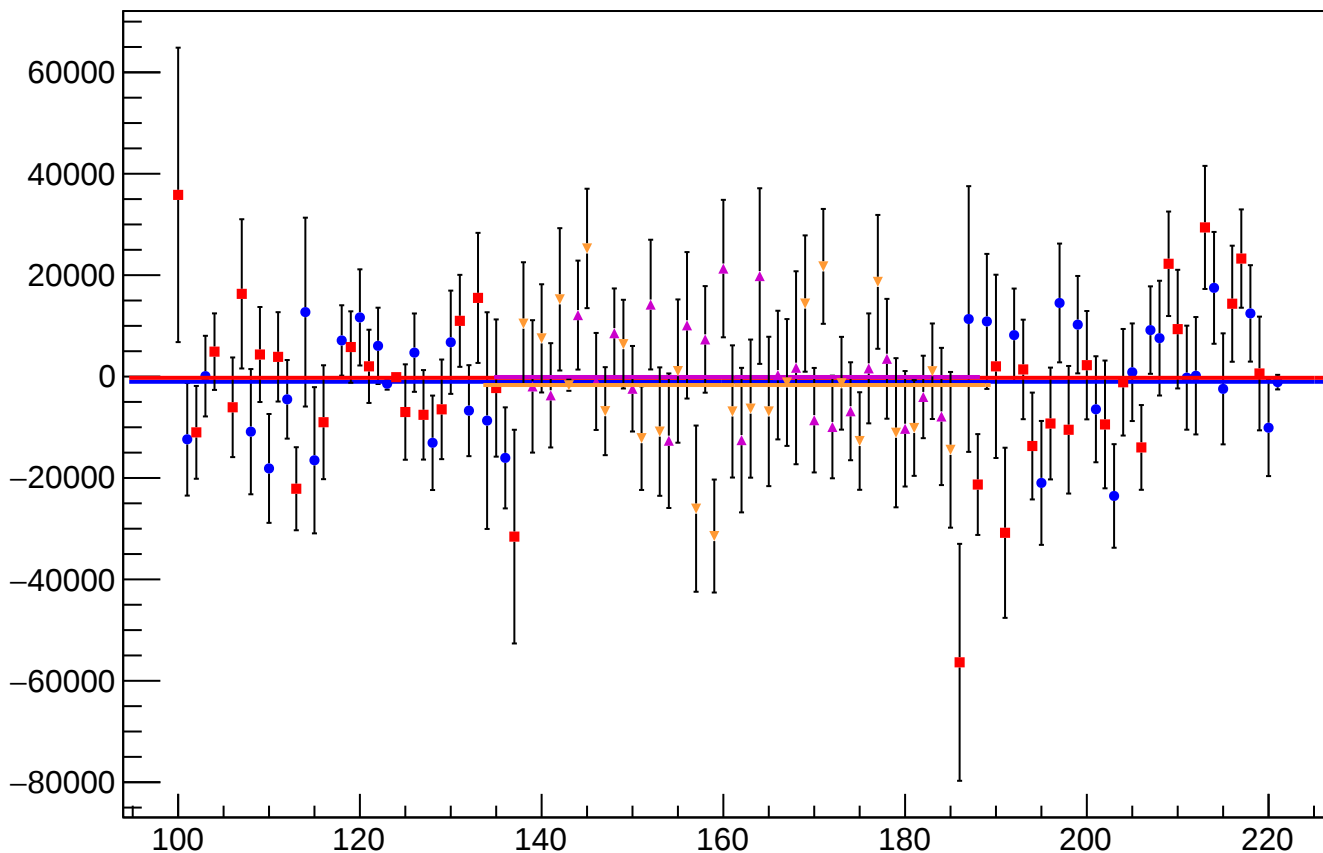
Right: 2173.337 $\pm$ 0.249 χ^2 /NDF: 1006460.5/71

In: 2296.146 $\pm$ 0.271 χ^2 /NDF: 1412066.4/57

Out: 2306.568 $\pm$ 0.269 χ^2 /NDF: 2269744.0/61

All: 2301.383 $\pm$ 0.191 χ^2 /NDF: 3682555.2/111

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1025.665 ± 807.854 χ^2/NDF : 36.6/34

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

Right Out: -243.644 ± 672.834 χ^2/NDF : 59.8/36

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

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

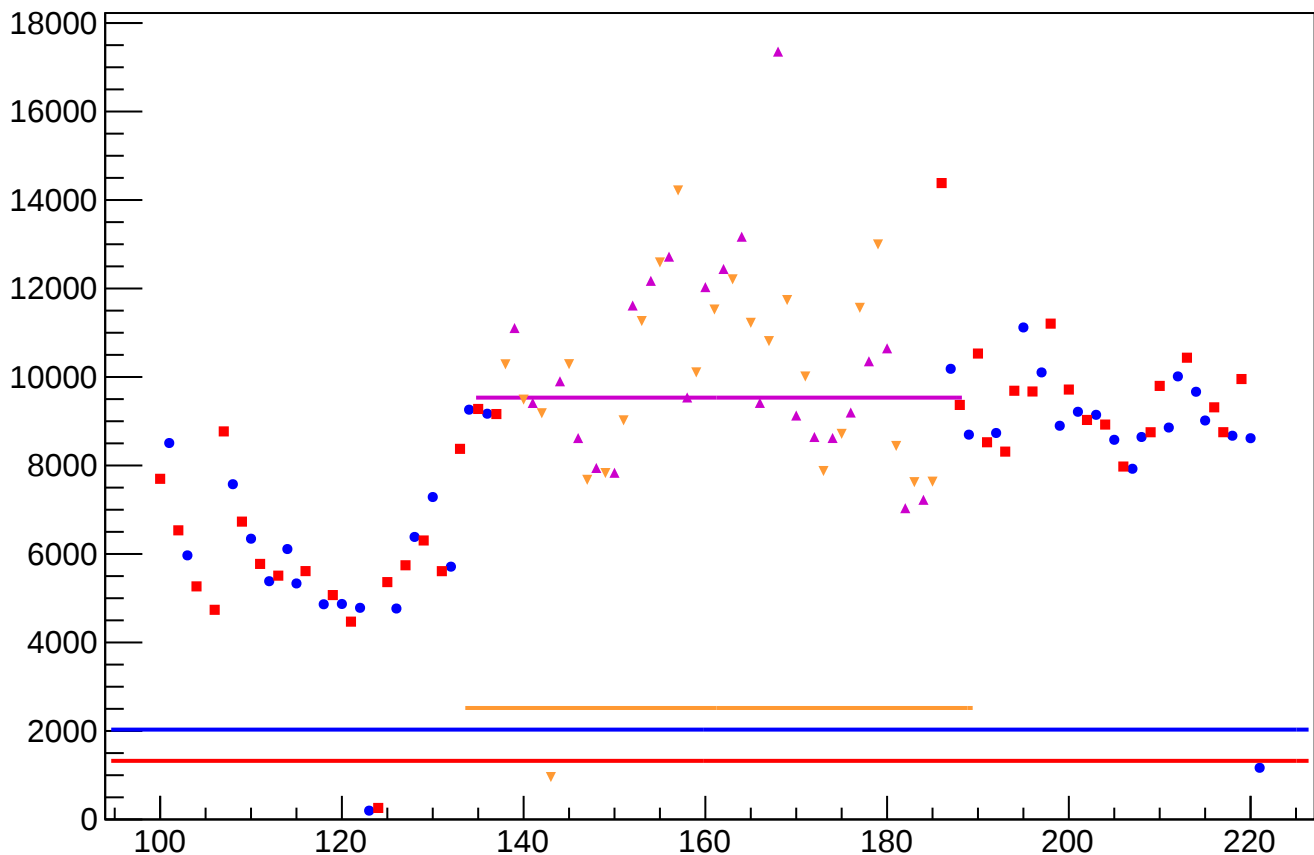
Right: -563.932 ± 517.005 χ^2/NDF : 96.9/71

In: -924.331 ± 763.331 χ^2/NDF : 50.6/57

Out: -690.970 ± 557.022 χ^2/NDF : 93.5/61

All: -772.056 ± 449.958 χ^2/NDF : 144.2/119

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2030.508 $\pm$ 0.571

χ^2 /NDF: 26478185.2/34

Left Out: 2519.359 $\pm$ 0.702

χ^2 /NDF: 23642118.3/24

Right Out: 1324.464 $\pm$ 0.476

χ^2 /NDF: 30952681.1/36

Left In: 9533.563 $\pm$ 1.649

χ^2 /NDF: 1316640.0/22

Left: 3596.432 $\pm$ 0.646

χ^2 /NDF: 40280305.8/47

Right: 1613.635 $\pm$ 0.366

χ^2 /NDF: 58332852.6/71

In: 2834.741 $\pm$ 0.540

χ^2 /NDF: 46286837.2/57

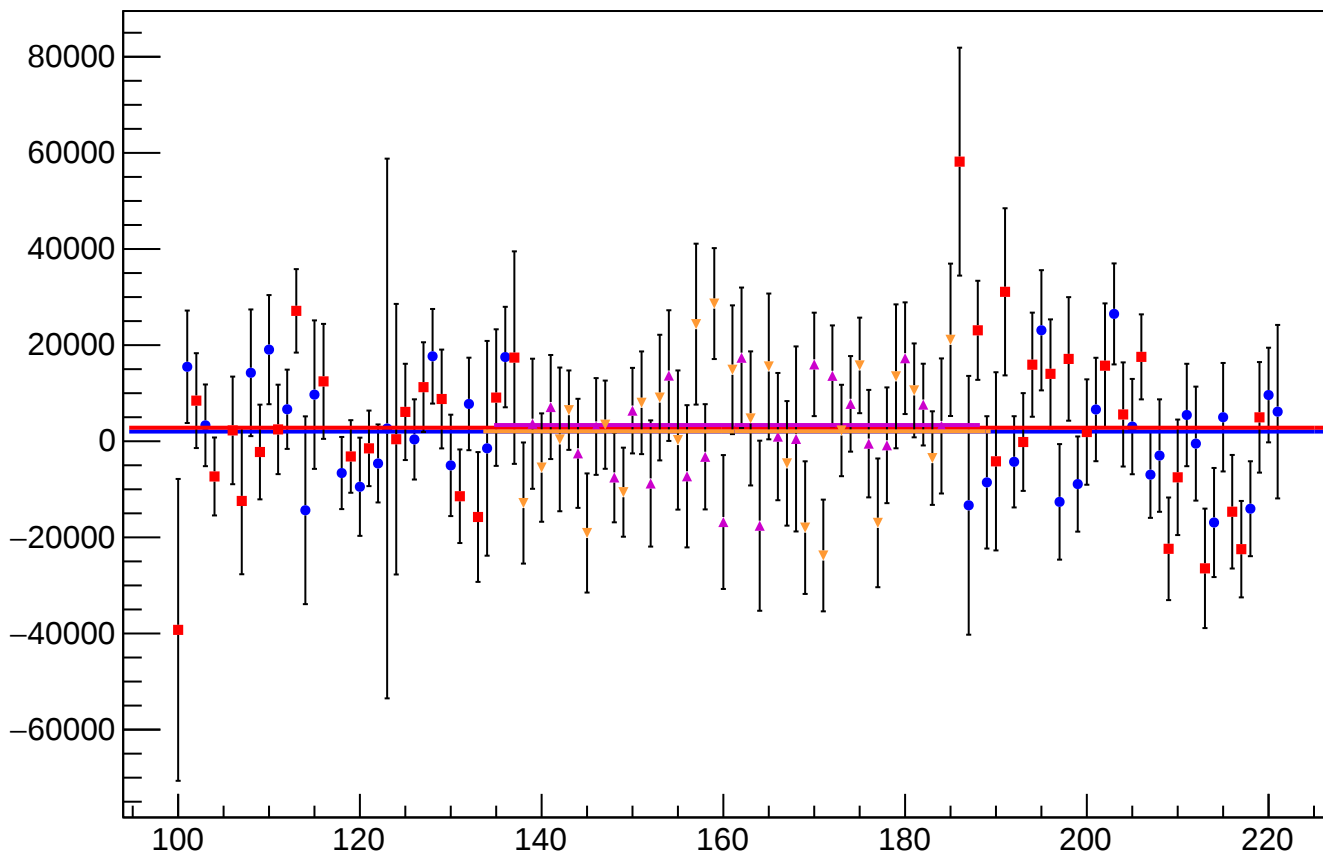
Out: 1700.408 $\pm$ 0.394

χ^2 /NDF: 56579370.6/61

All: 2094.556 $\pm$ 0.318

χ^2 /NDF: 105748148.1

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2015.290+/-1829.927 χ^2/NDF : 34.6/34

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

Right Out: 2818.677+/-1820.857 χ^2/NDF : 60.4/36

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

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

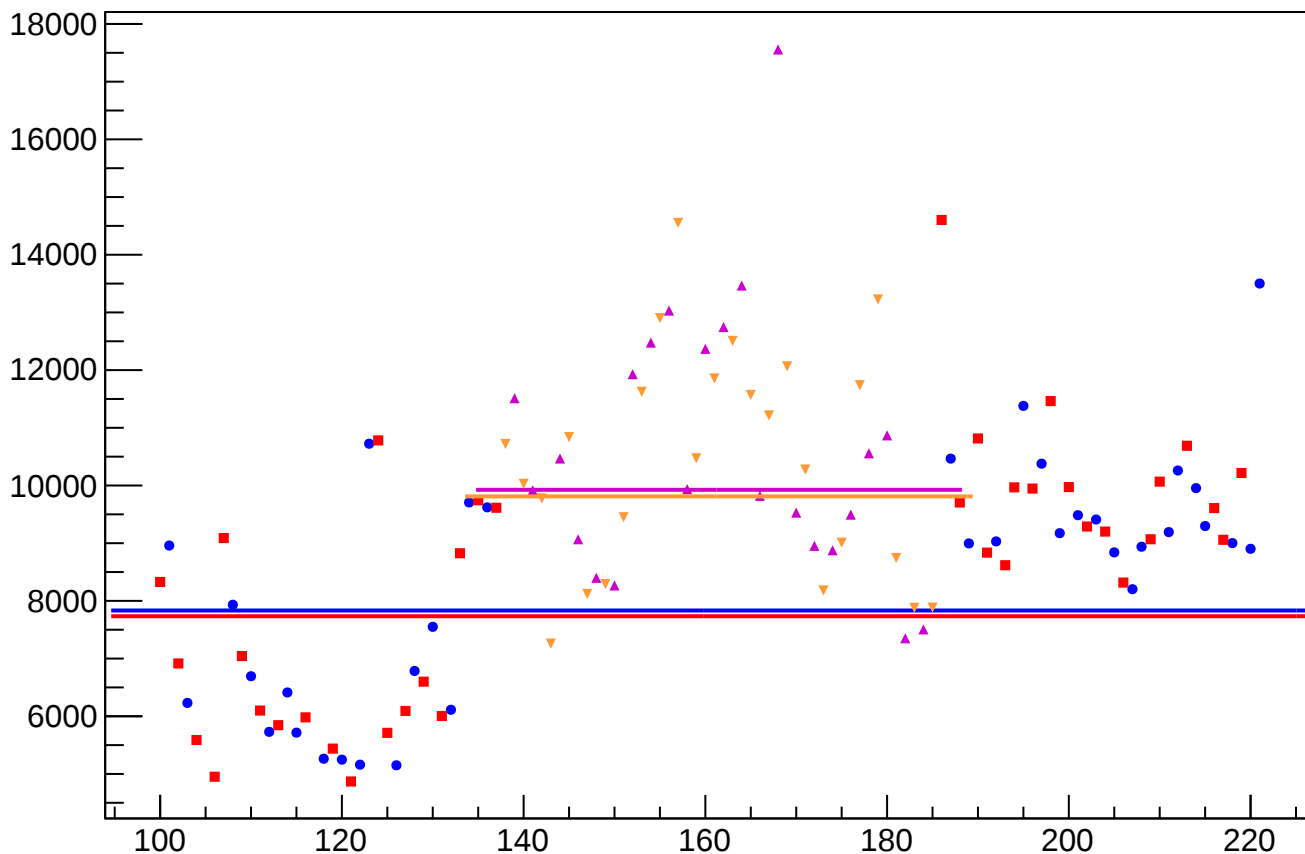
Right: 2418.980+/-1290.735 χ^2/NDF : 95.1/71

In: 2507.972+/-1460.319 χ^2/NDF :47.9/57

Out: 2530.021+/-1435.532 χ^2/NDF :91.2/61

All: 2519.185+/-1023.725 χ^2/NDF : 139.1/119

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7833.424+/-1.294 χ^2/NDF : 2196009.7/34

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

Right Out: 7733.769+/-1.287 χ^2/NDF : 2479625.6/36

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

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

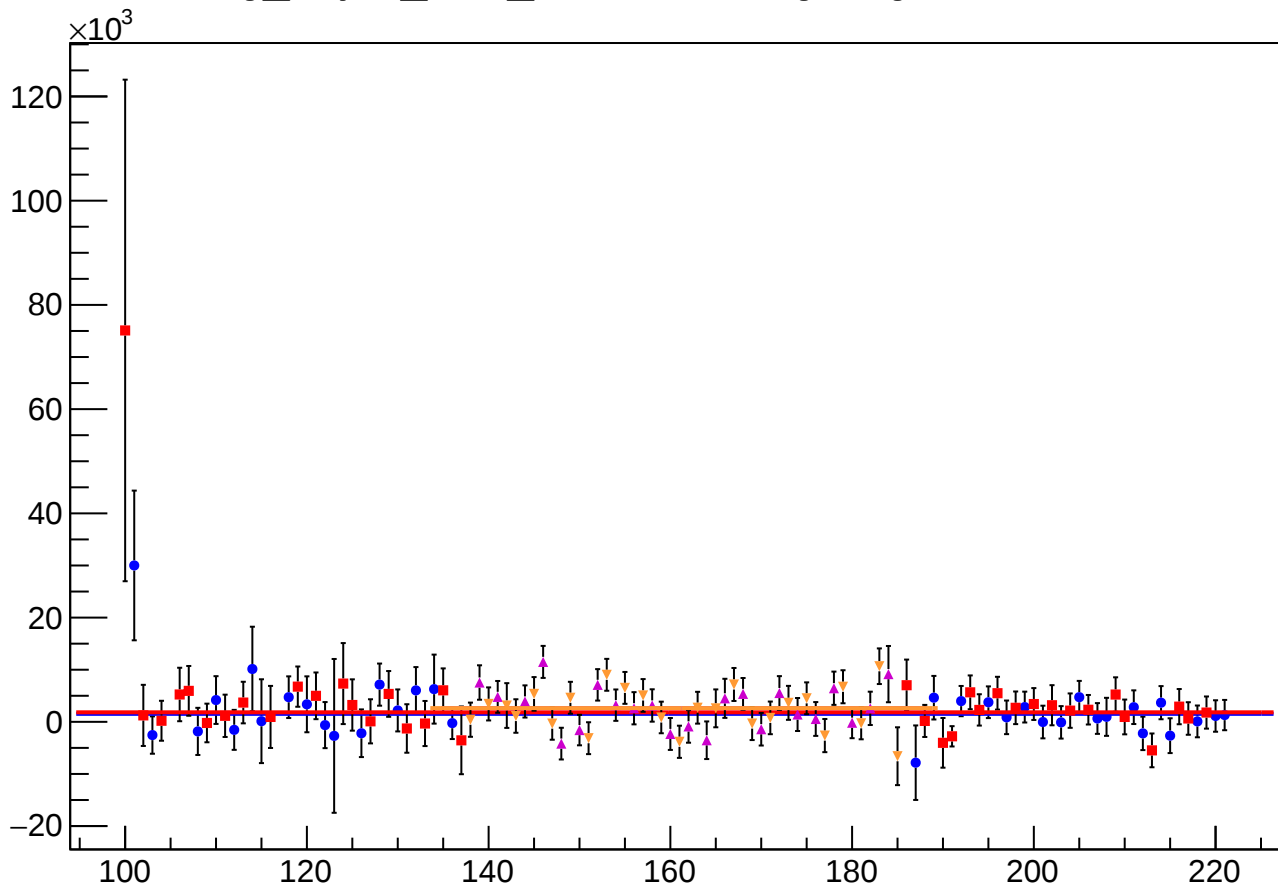
Right: 7783.349+/-0.913 χ^2/NDF : 4678616.1/71

In: 8593.084+/-1.033 χ^2/NDF :4356783.9/57

Out: 8519.873+/-1.015 χ^2/NDF :4678599.4/61

All: 8555.852+/-0.724 χ^2/NDF : 9037939.9/11

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1530.915 $\pm$ 631.179 χ^2/NDF : 22.7/34

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

Right Out: 1825.689 $\pm$ 609.457 χ^2/NDF : 28.4/36

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

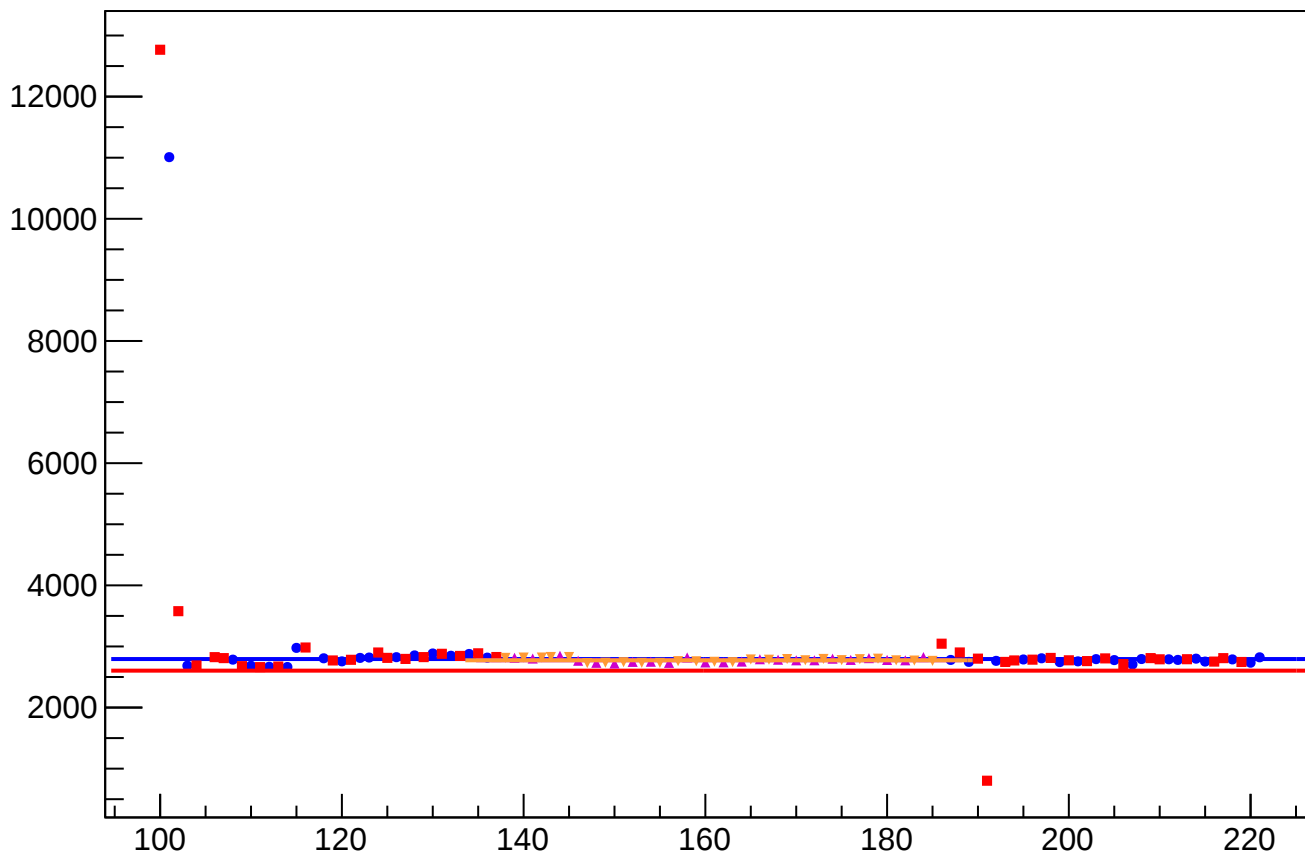
Right: 1683.462 $\pm$ 438.430 χ^2/NDF : 51.3/71

In: 2056.236 $\pm$ 457.660 χ^2/NDF : 59.4/57

Out: 2207.124 $\pm$ 443.346 χ^2/NDF : 64.3/61

All: 2134.077 $\pm$ 318.433 χ^2/NDF : 123.8/119

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2793.979+/-0.446 χ^2/NDF : 668023.3/34

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

Right Out: 2604.072+/-0.431 χ^2/NDF : 2041078.9/36

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

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

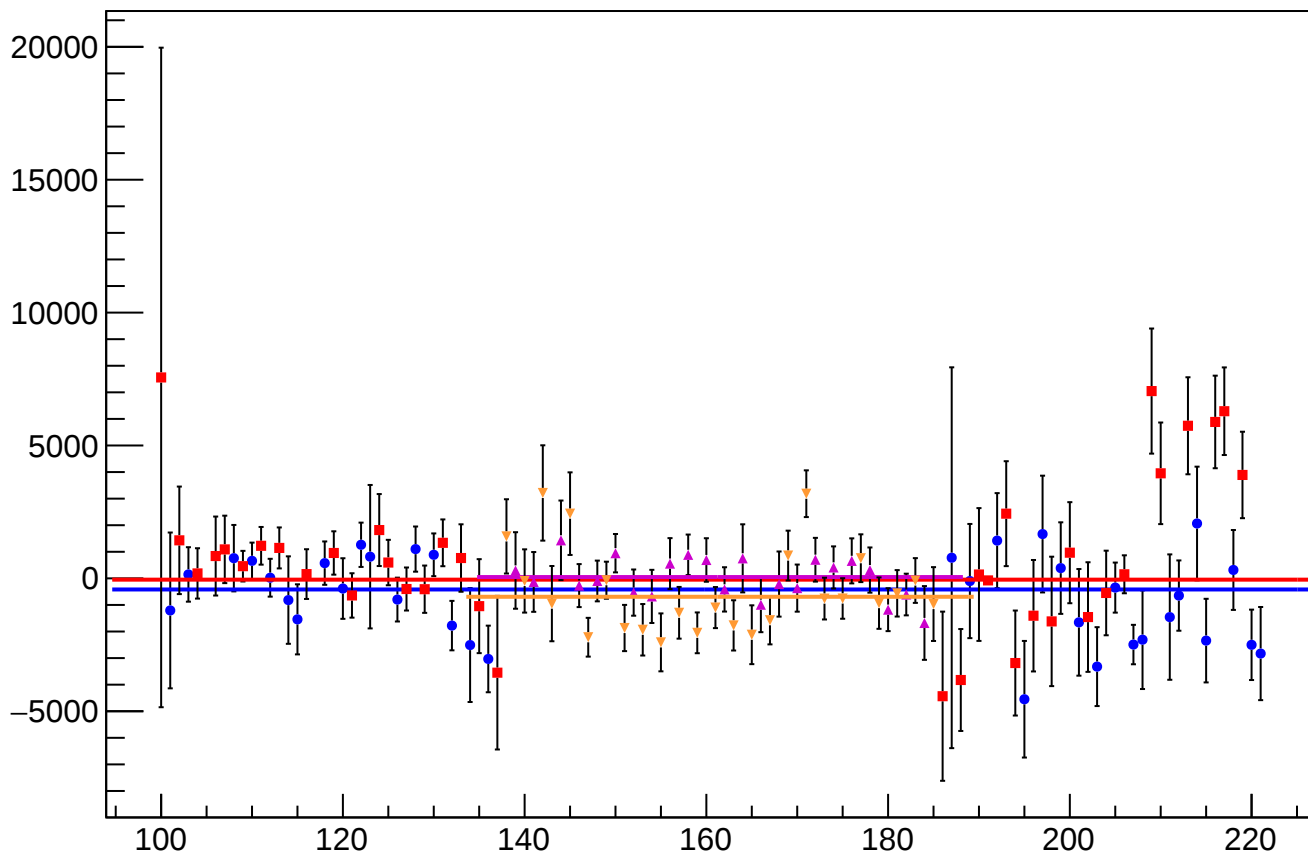
Right: 2695.702+/-0.310 χ^2/NDF : 2802797.8/71

In: 2784.521+/-0.324 χ^2/NDF : 673955.6/57

Out: 2683.944+/-0.313 χ^2/NDF : 2118651.8/61

All: 2732.635+/-0.225 χ^2/NDF : 2842438.2/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -417.929 ± 200.153 $\chi^2/\text{NDF}: 50.6/34$

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

Right Out: -48.477 ± 37.773 $\chi^2/\text{NDF}: 86.1/36$

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

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

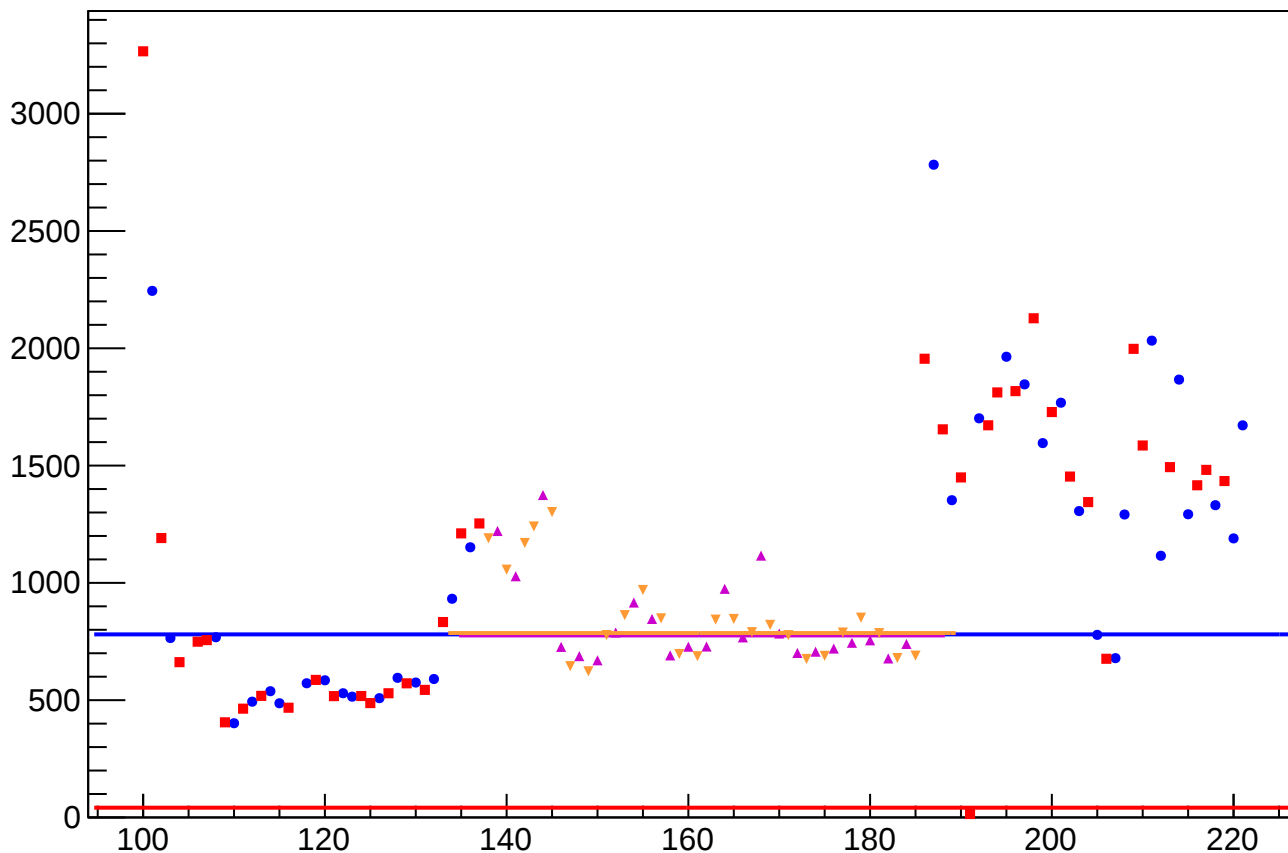
Right: -61.183 ± 37.118 $\chi^2/\text{NDF}: 140.0/71$

In: -171.198 ± 137.490 $\chi^2/\text{NDF}: 67.1/57$

Out: -73.659 ± 37.028 $\chi^2/\text{NDF}: 153.4/61$

All: -80.255 ± 35.754 $\chi^2/\text{NDF}: 221.0/119$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 780.435+/-0.142

χ^2/NDF : 8329588.2/34

Left Out: 786.173+/-0.132

χ^2/NDF : 1249536.1/24

Right Out: 41.626+/-0.027

χ^2/NDF : 35082845.9/36

Left In: 775.930+/-0.134

χ^2/NDF : 1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 67.035+/-0.026

χ^2/NDF : 69725404.8/71

In: 778.056+/-0.097

χ^2/NDF : 9386889.7/57

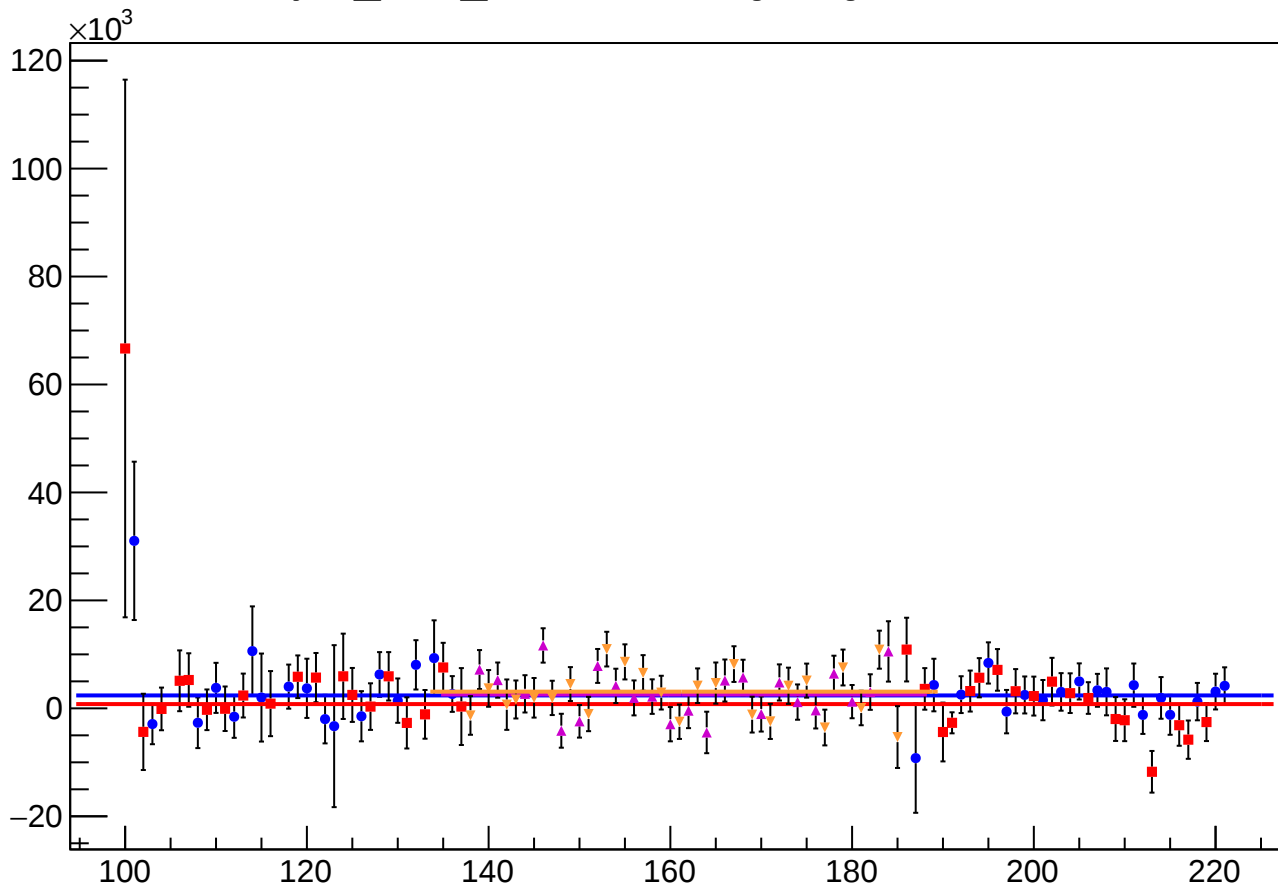
Out: 70.726+/-0.026

χ^2/NDF : 66701807.1/61

All: 118.559+/-0.025

χ^2/NDF : 125442789.6/1

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2393.801 $\pm$ 701.099 χ^2/NDF : 22.5/34

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

Right Out: 789.447 $\pm$ 672.062 χ^2/NDF : 42.9/36

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

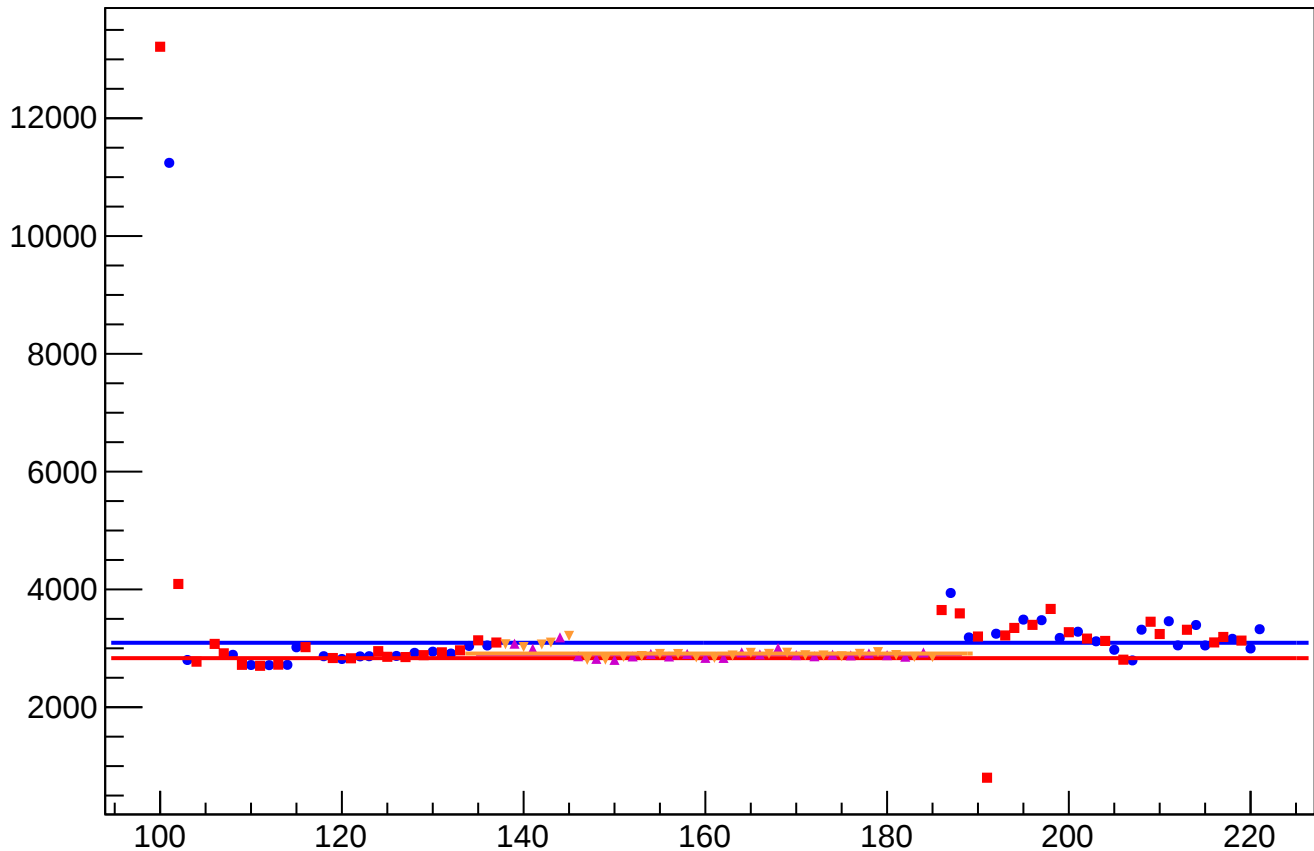
Right: 1557.713 $\pm$ 485.160 χ^2/NDF : 68.2/71

In: 2484.174 $\pm$ 493.866 χ^2/NDF : 58.2/57

Out: 1931.130 $\pm$ 477.483 χ^2/NDF : 87.4/61

All: 2198.327 $\pm$ 343.277 χ^2/NDF : 146.3/119

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3094.013+/-0.496 χ^2/NDF : 833819.1/34

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

Right Out: 2832.795+/-0.475 χ^2/NDF : 2858273.1/36

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

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

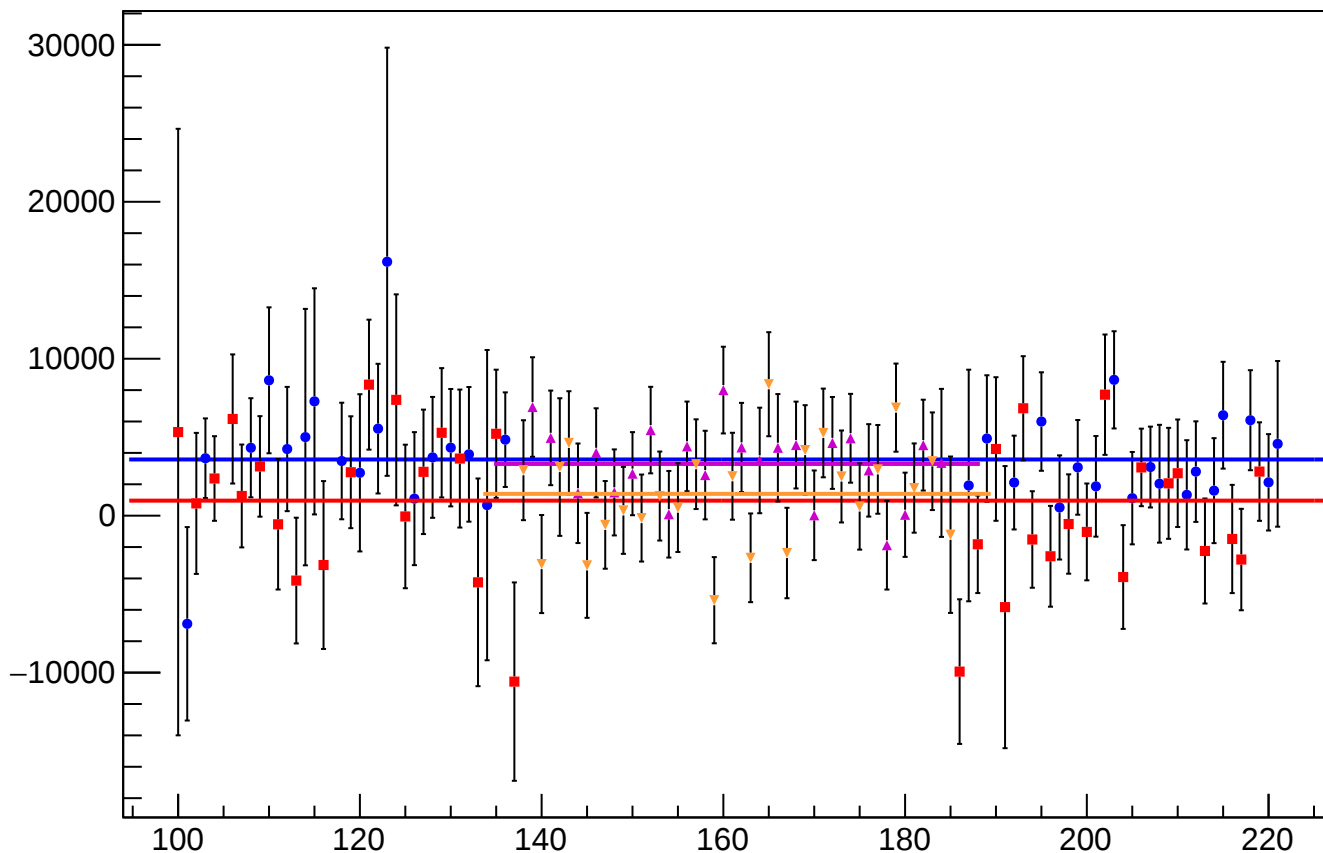
Right: 2957.883+/-0.343 χ^2/NDF : 3836778.6/71

In: 2997.988+/-0.349 χ^2/NDF : 937127.9/57

Out: 2871.636+/-0.338 χ^2/NDF : 2908406.5/61

All: 2932.682+/-0.243 χ^2/NDF : 3913197.2/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3580.618 $\pm$ 620.133 χ^2 /NDF: 14.3/34

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

Right Out: 957.736 $\pm$ 614.042 χ^2 /NDF: 38.5/36

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

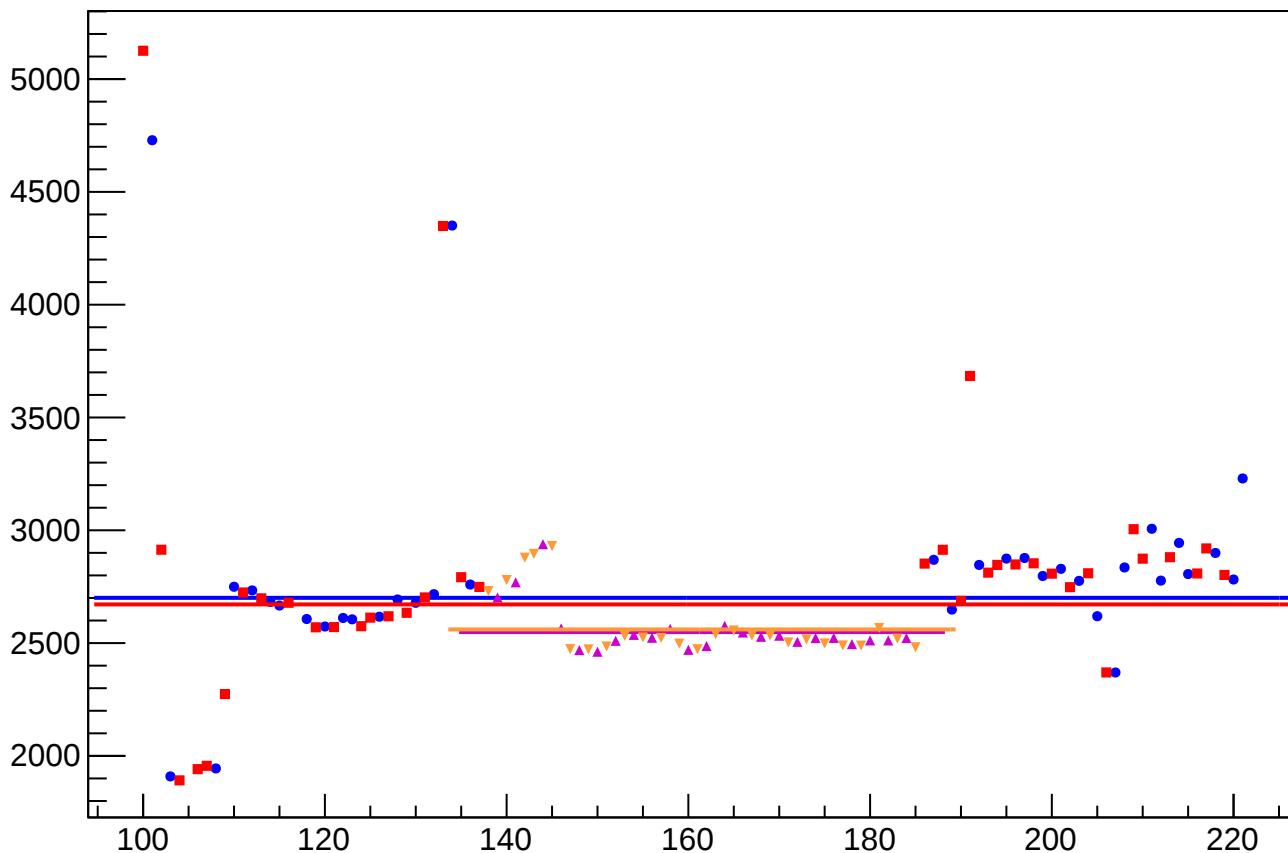
Right: 2256.231 $\pm$ 436.331 χ^2 /NDF: 61.9/71

In: 3435.641 $\pm$ 434.870 χ^2 /NDF:29.3/57

Out: 1180.266 $\pm$ 427.862 χ^2 /NDF:67.9/61

All: 2289.634 $\pm$ 304.992 χ^2 /NDF: 110.9/119

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2700.608 $\pm$ 0.439 χ^2 /NDF: 707143.5/34

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2671.429 $\pm$ 0.434 χ^2 /NDF: 682258.9/36

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

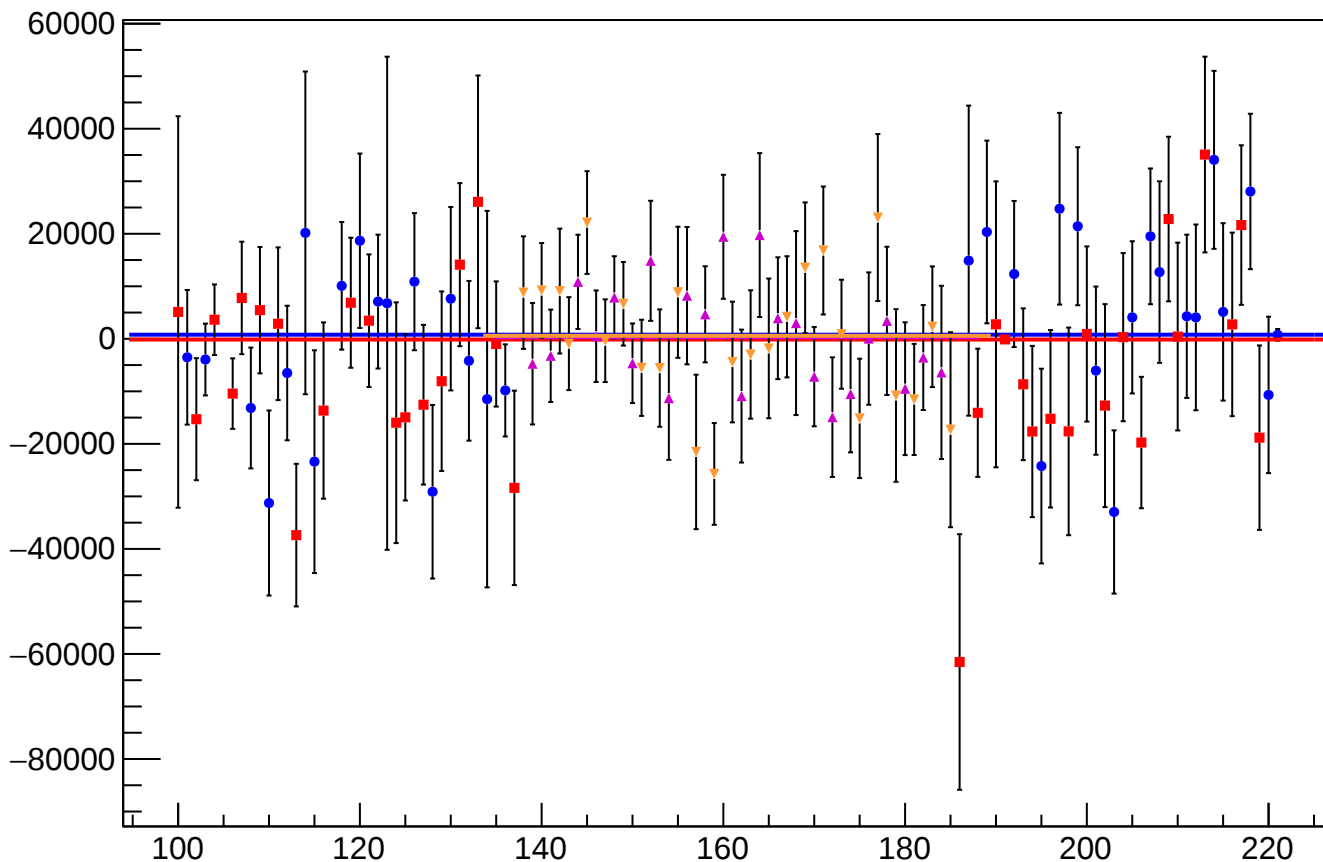
Right: 2685.874 $\pm$ 0.309 χ^2 /NDF: 1391638.3/71

In: 2623.488 $\pm$ 0.307 χ^2 /NDF: 823268.3/57

Out: 2614.375 $\pm$ 0.303 χ^2 /NDF: 802591.8/61

All: 2618.857 $\pm$ 0.216 χ^2 /NDF: 1626306.3/11

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 785.139 $\pm$ 1011.585 χ^2 /NDF: 38.3/34

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

Right Out: -136.649 $\pm$ 194.865 χ^2 /NDF: 43.0/36

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

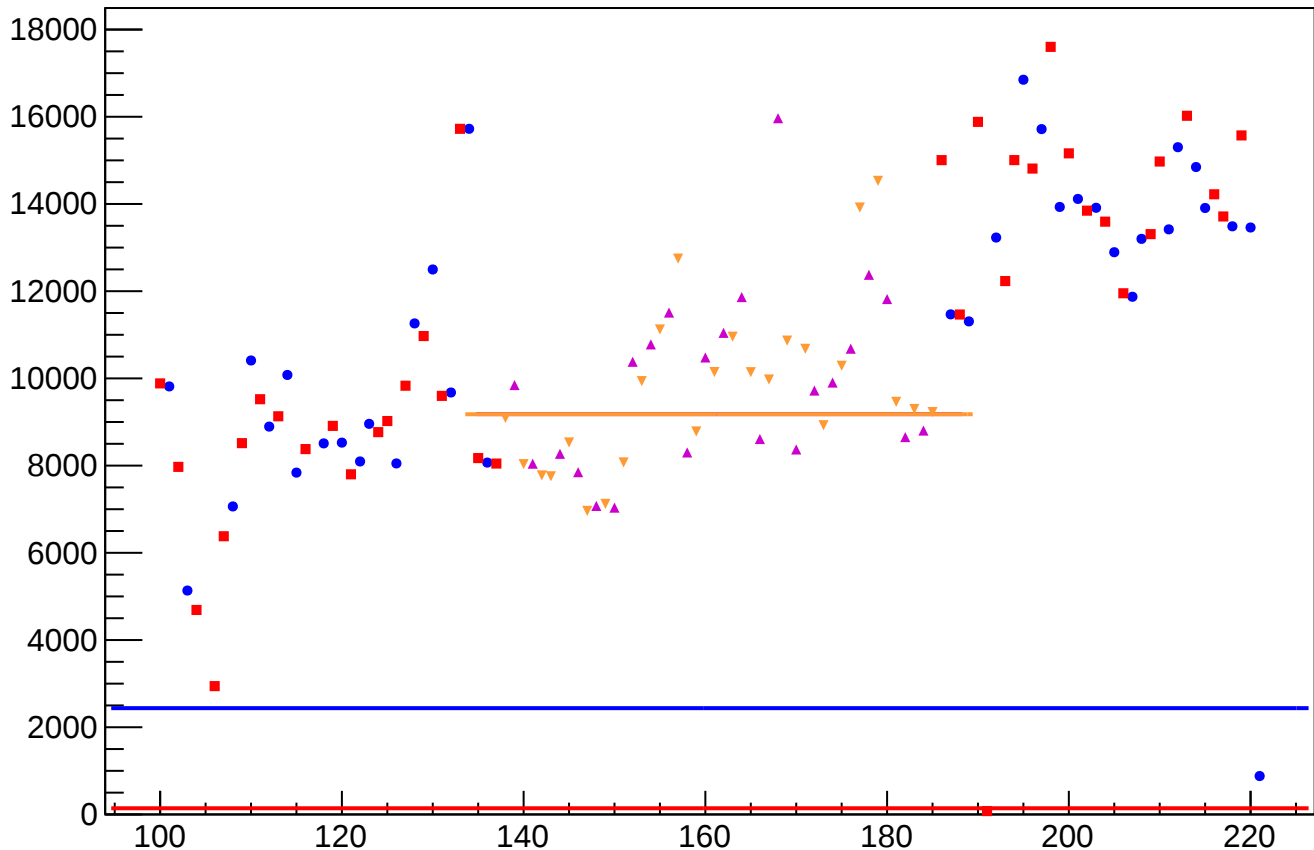
Right: -103.668 $\pm$ 191.347 χ^2 /NDF: 82.0/71

In: 698.925 $\pm$ 922.130 χ^2 /NDF:54.0/57

Out: -131.050 $\pm$ 194.094 χ^2 /NDF:71.3/61

All: -95.839 $\pm$ 189.933 χ^2 /NDF: 126.1/119

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 2438.008+/-0.715

χ^2/NDF : 27431925.4/34

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 224.078+/-0.135

χ^2/NDF : 74634315.7/71

Right Out: 141.924+/-0.138

χ^2/NDF : 37267179.9/36

In: 3577.887+/-0.652

χ^2/NDF : 43691269.2/57

Out: 213.264+/-0.137

χ^2/NDF : 72395146.5/61

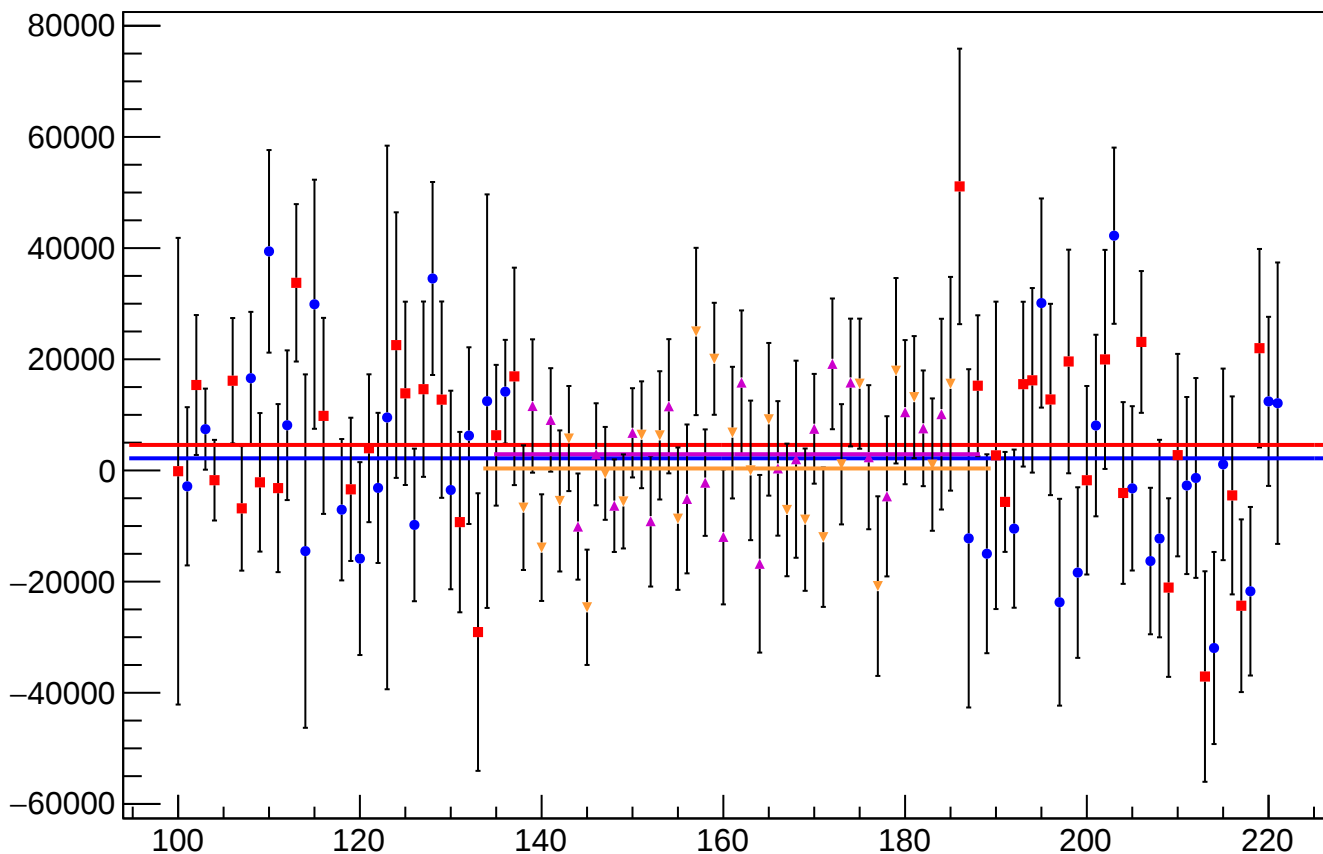
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 356.006+/-0.134

χ^2/NDF : 141583530.4/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2182.854 $\pm$ 2582.589 χ^2 /NDF: 40.5/34

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

Right Out: 4590.621 $\pm$ 2418.841 χ^2 /NDF: 35.9/36

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

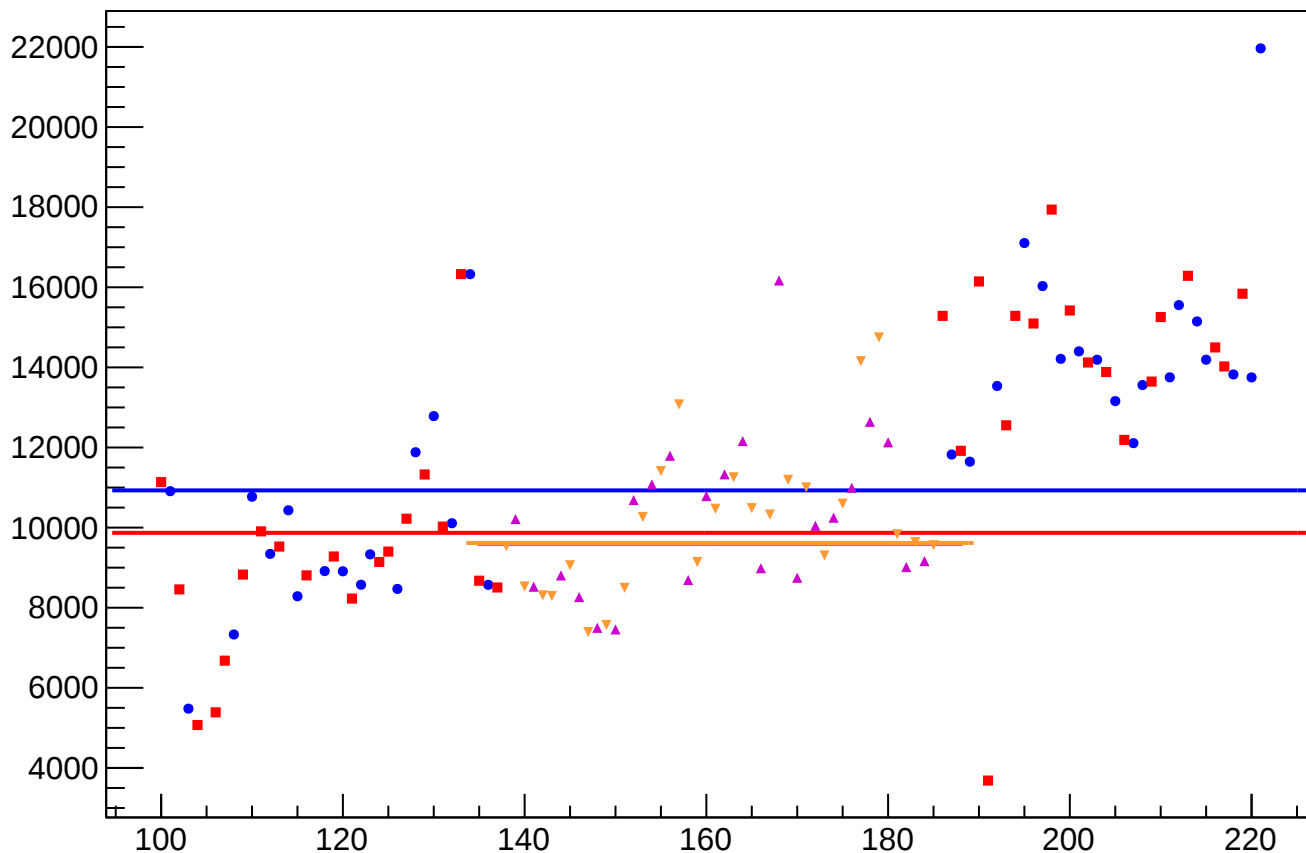
Right: 3465.484 $\pm$ 1765.431 χ^2 /NDF: 76.8/71

In: 2587.003 $\pm$ 1733.440 χ^2 /NDF:55.4/57

Out: 2349.702 $\pm$ 1659.765 χ^2 /NDF:63.8/61

All: 2463.202 $\pm$ 1198.831 χ^2 /NDF: 119.2/119

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10929.455+/-1.826 χ^2/NDF : 3481088.3/34

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

Right Out: 9869.633+/-1.710 χ^2/NDF : 5110010.4/36

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

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

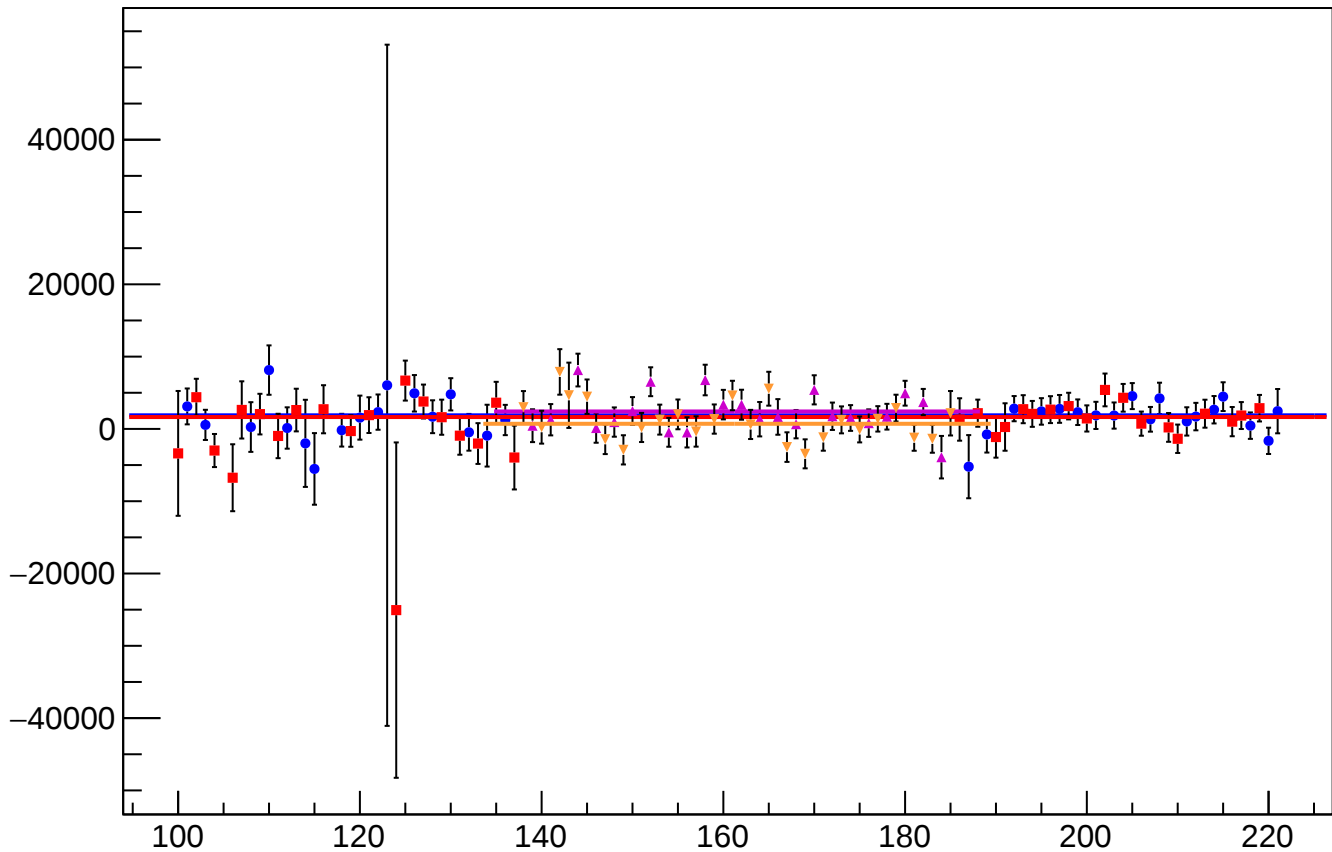
Right: 10364.878+/-1.248 χ^2/NDF : 8770527.5/71

In: 10198.142+/-1.226 χ^2/NDF : 4855131.9/57

Out: 9735.555+/-1.174 χ^2/NDF : 6133290.0/61

All: 9956.808+/-0.848 χ^2/NDF : 11062729.0/131

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1881.437+/-381.490 χ^2/NDF : 27.0/34

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

Right Out: 1642.696+/-385.662 χ^2/NDF : 31.9/36

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

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

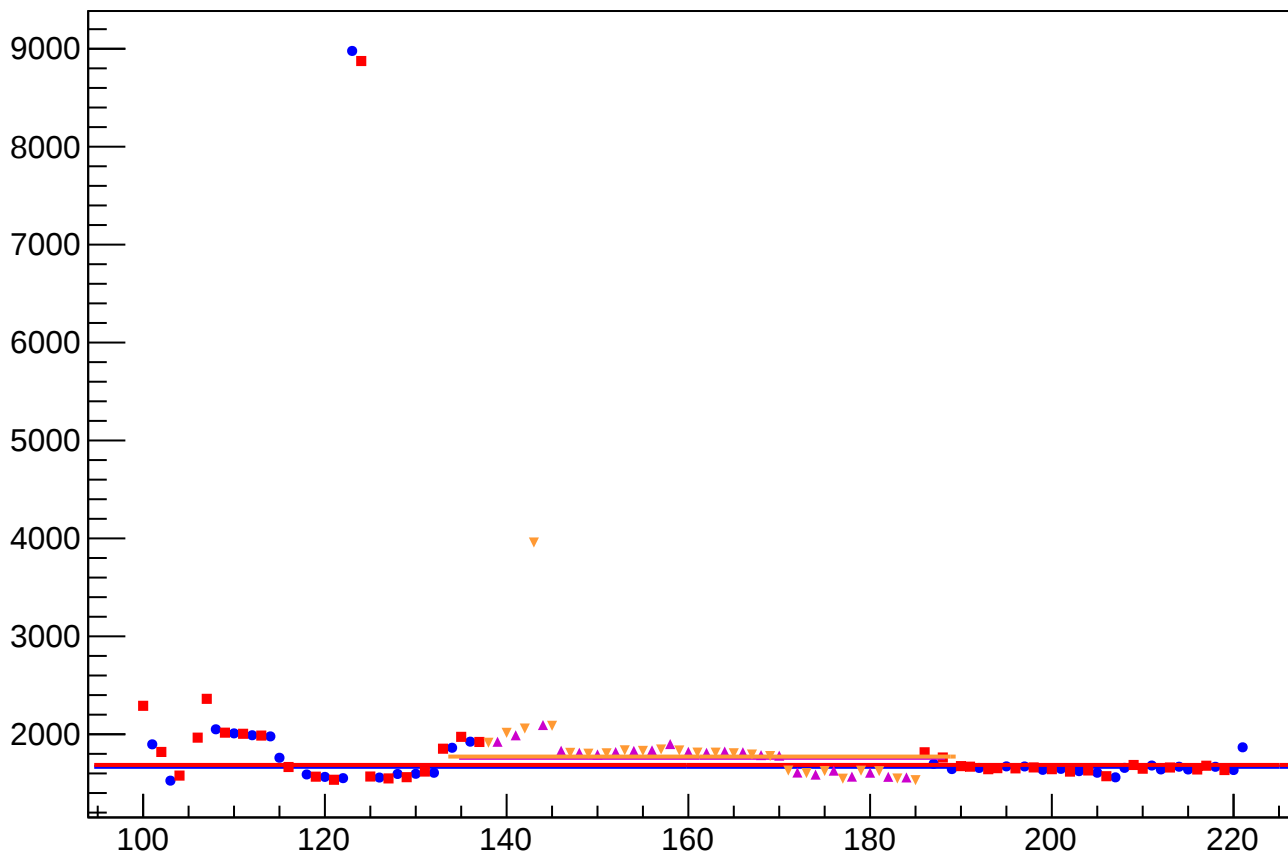
Right: 1763.365+/-271.217 χ^2/NDF : 59.1/71

In: 2120.354+/-283.437 χ^2/NDF :61.9/57

Out: 1212.999+/-283.254 χ^2/NDF :69.5/61

All: 1666.382+/-200.355 χ^2/NDF : 136.5/119

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1667.575+/-0.270 χ^2/NDF : 225689.0/34

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1686.919+/-0.272 χ^2/NDF : 441171.3/36

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

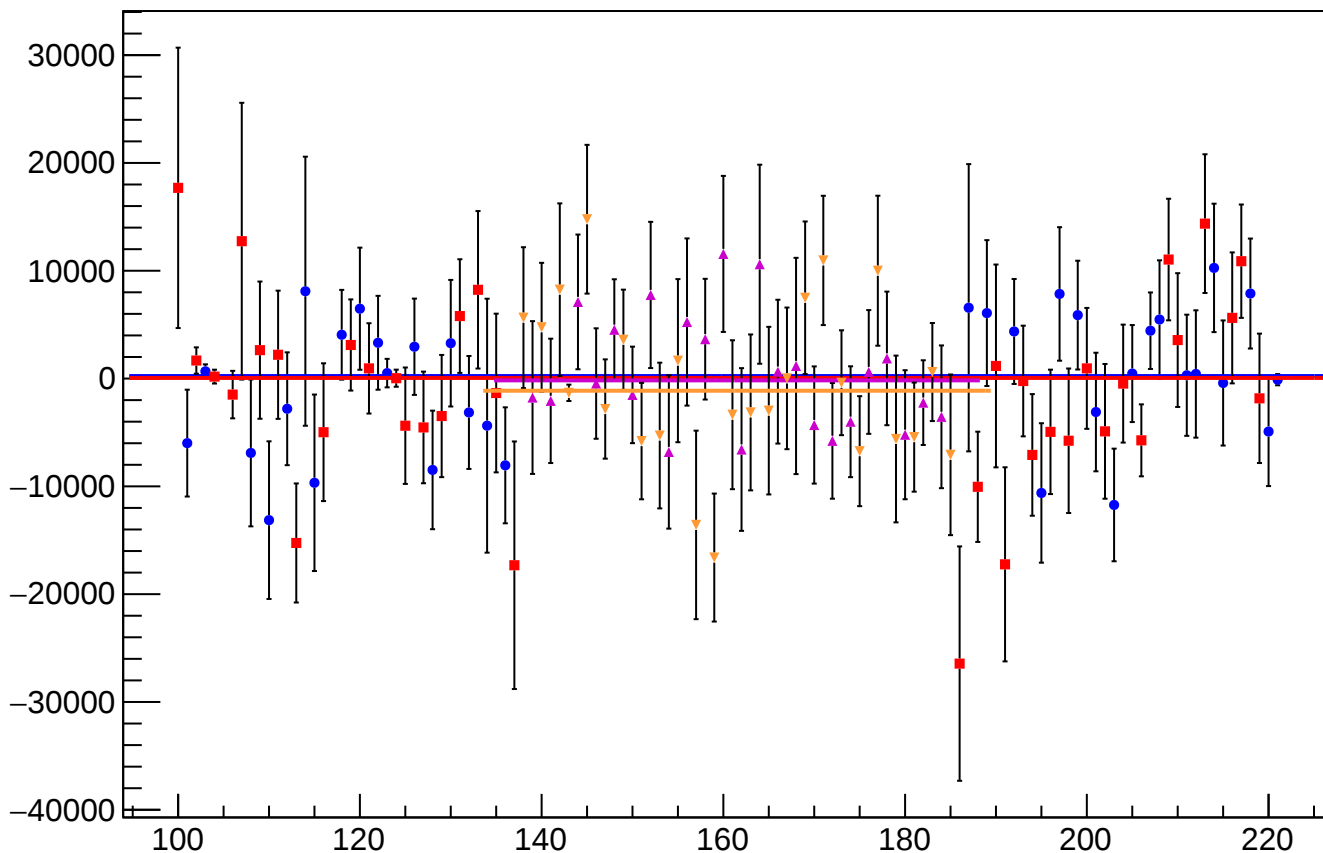
Right: 1677.156+/-0.192 χ^2/NDF : 669407.2/71

In: 1708.801+/-0.200 χ^2/NDF : 492716.1/57

Out: 1726.063+/-0.200 χ^2/NDF : 1188583.7/61

All: 1717.444+/-0.142 χ^2/NDF : 1685014.2/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 229.594 $\pm$ 359.760 χ^2 /NDF: 39.1/34

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: 58.318 $\pm$ 413.013 χ^2 /NDF: 55.5/36

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

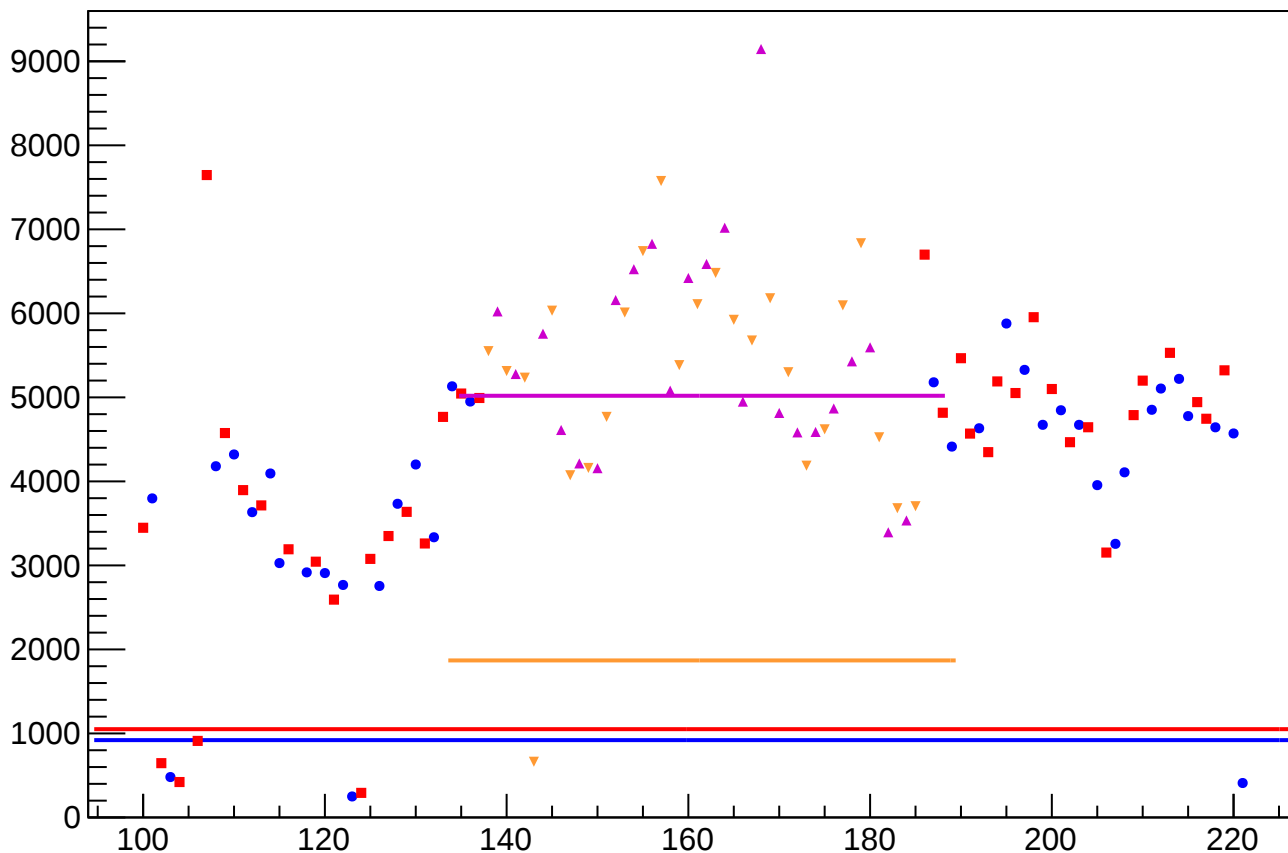
Right: 155.703 $\pm$ 271.276 χ^2 /NDF: 94.7/71

In: 198.359 $\pm$ 345.347 χ^2 /NDF:53.4/57

Out: -285.211 $\pm$ 348.223 χ^2 /NDF:89.3/61

All: -41.420 $\pm$ 245.208 χ^2 /NDF: 143.7/119

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 920.365+/-0.254 χ^2/NDF : 25805525.1/34

Left Out: 1868.983+/-0.458 χ^2/NDF :19852416.6/24

Right Out: 1050.865+/-0.292 χ^2/NDF : 25005926.9/36

Left In: 5019.114+/-0.871 χ^2/NDF :1569031.9/22

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

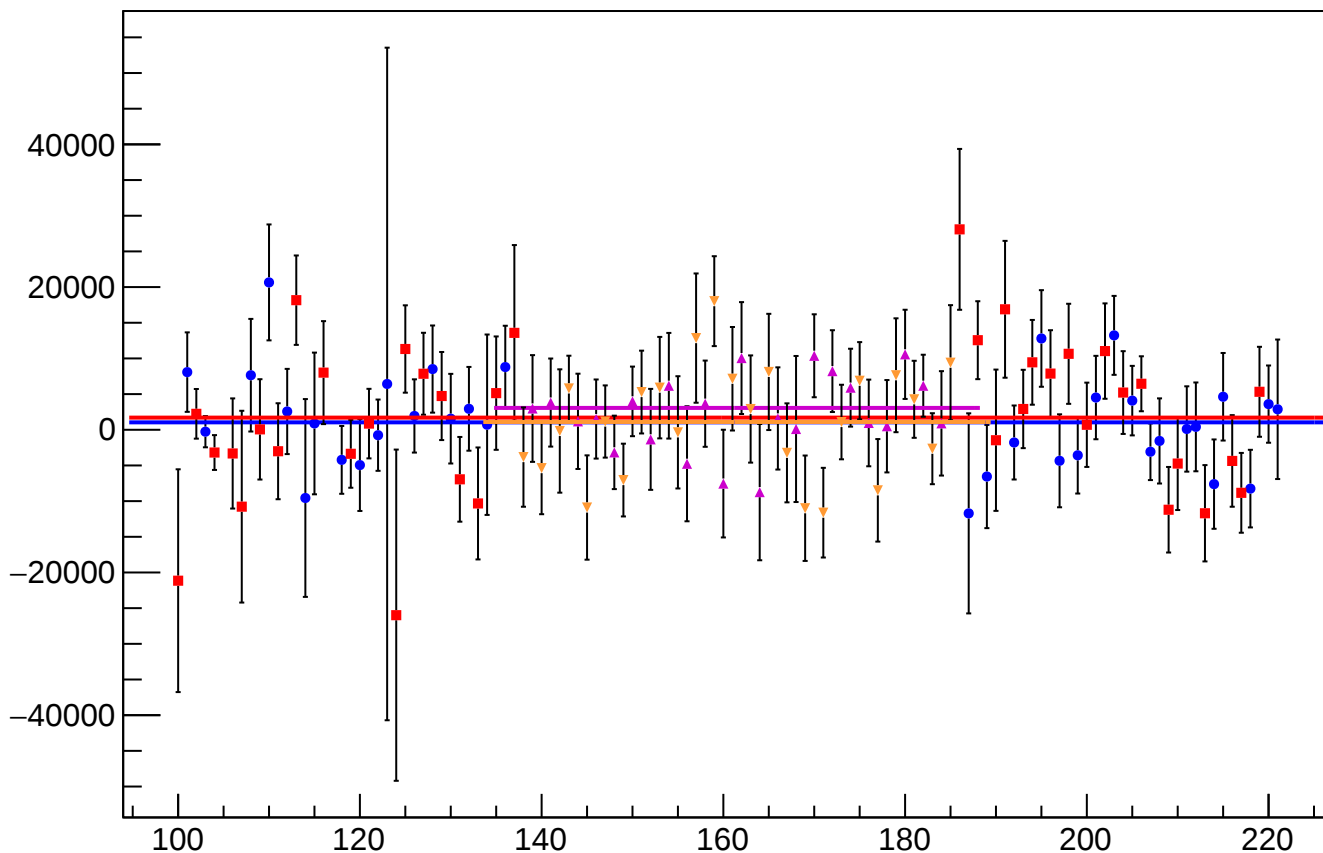
Right: 976.665+/-0.192 χ^2/NDF : 50924984.1/71

In: 1242.213+/-0.244 χ^2/NDF :47759317.2/57

Out: 1287.412+/-0.246 χ^2/NDF :47127350.4/61

All: 1264.625+/-0.173 χ^2/NDF : 94903654.9/131

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1041.153 $\pm$ 952.945 χ^2/NDF : 33.8/34

Left Out: 1094.317 $\pm$ 1273.113 χ^2/NDF : 32.0/24

Right Out: 1704.993 $\pm$ 963.734 χ^2/NDF : 62.4/36

Left In: 3064.775 $\pm$ 1318.173 χ^2/NDF : 12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2/NDF : 45.7/47

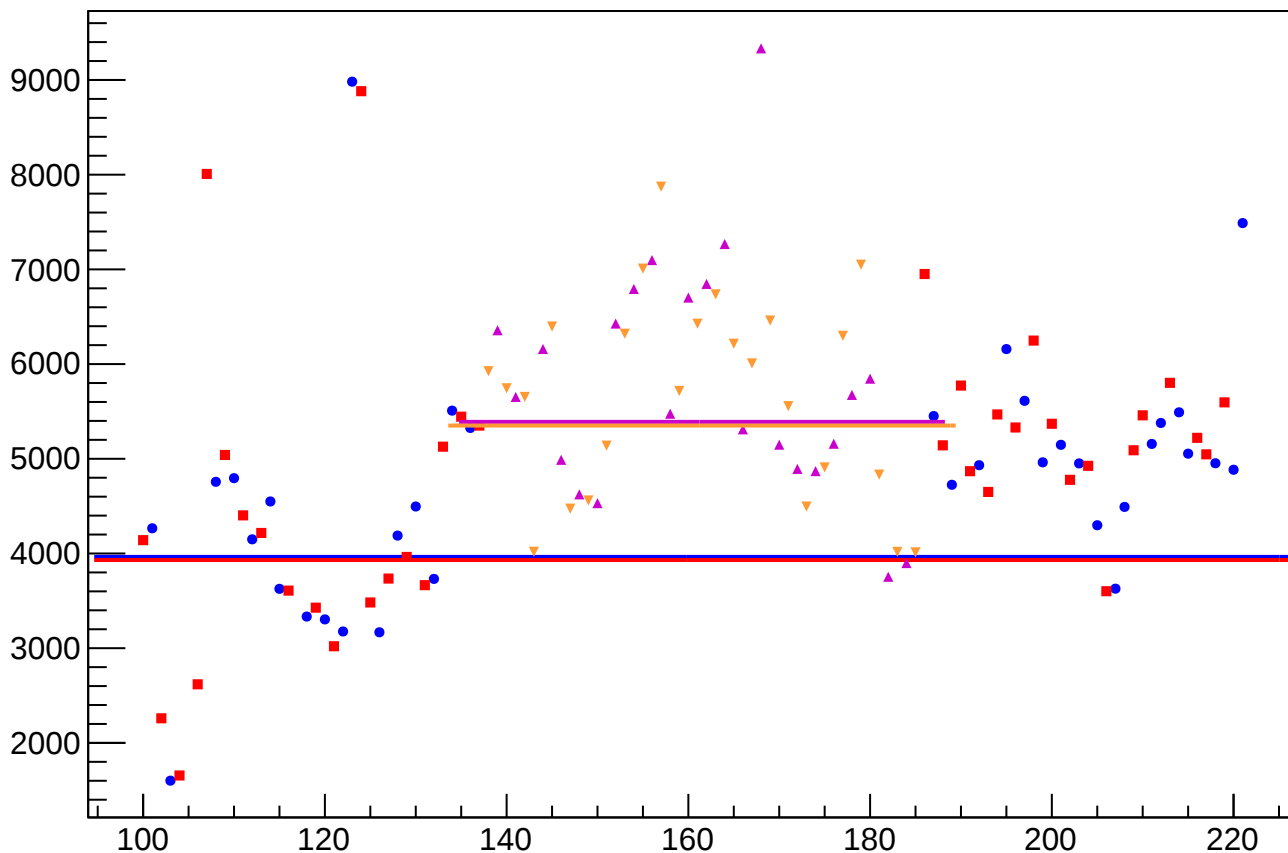
Right: 1369.336 $\pm$ 677.616 χ^2/NDF : 96.4/71

In: 1735.740 $\pm$ 772.274 χ^2/NDF : 47.9/57

Out: 1482.532 $\pm$ 768.401 χ^2/NDF : 94.5/61

All: 1608.500 $\pm$ 544.706 χ^2/NDF : 142.4/119

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3964.018 $\pm$ 0.674

χ^2 /NDF: 4179183.3/34

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Right: 3947.628 $\pm$ 0.477 χ^2 /NDF: 8783287.9/71

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

In: 4453.375 $\pm$ 0.546 χ^2 /NDF: 7025616.5/57

Right Out: 3931.138 $\pm$ 0.676

χ^2 /NDF: 4602917.7/36

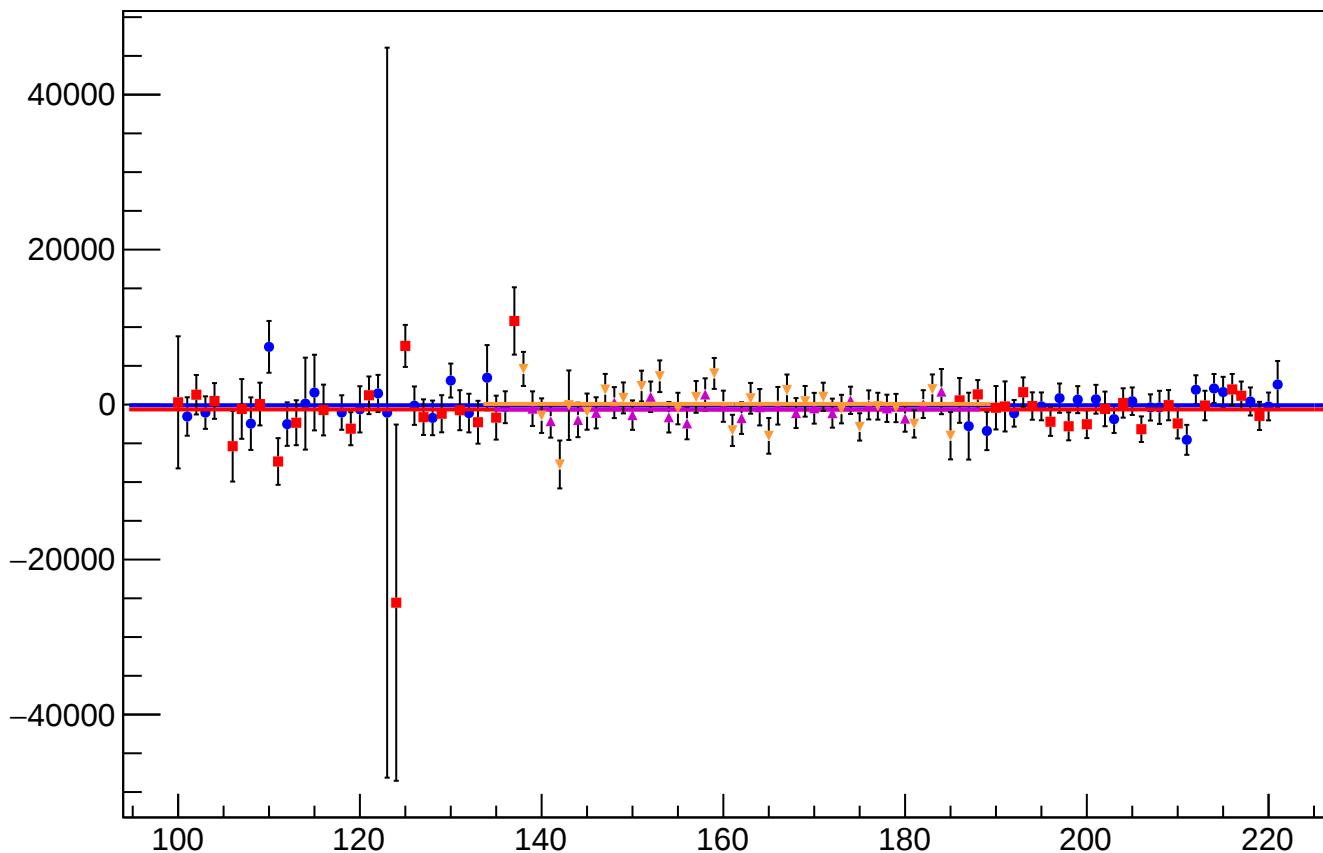
Out: 4442.895 $\pm$ 0.540 χ^2 /NDF: 7434882.4/61

Left In: 5389.724 $\pm$ 0.932

χ^2 /NDF: 1309863.0/22

All: 4448.081 $\pm$ 0.384 χ^2 /NDF: 14460684.9/131

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -82.497 ± 376.278 $\chi^2/\text{NDF}: 24.9/34$

Left Out: 86.214 ± 411.530 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -622.249 ± 380.201 $\chi^2/\text{NDF}: 39.6/36$

Left In: -640.235 ± 417.645 $\chi^2/\text{NDF}: 6.2/22$

Left: -271.653 ± 293.134 $\chi^2/\text{NDF}: 43.7/47$

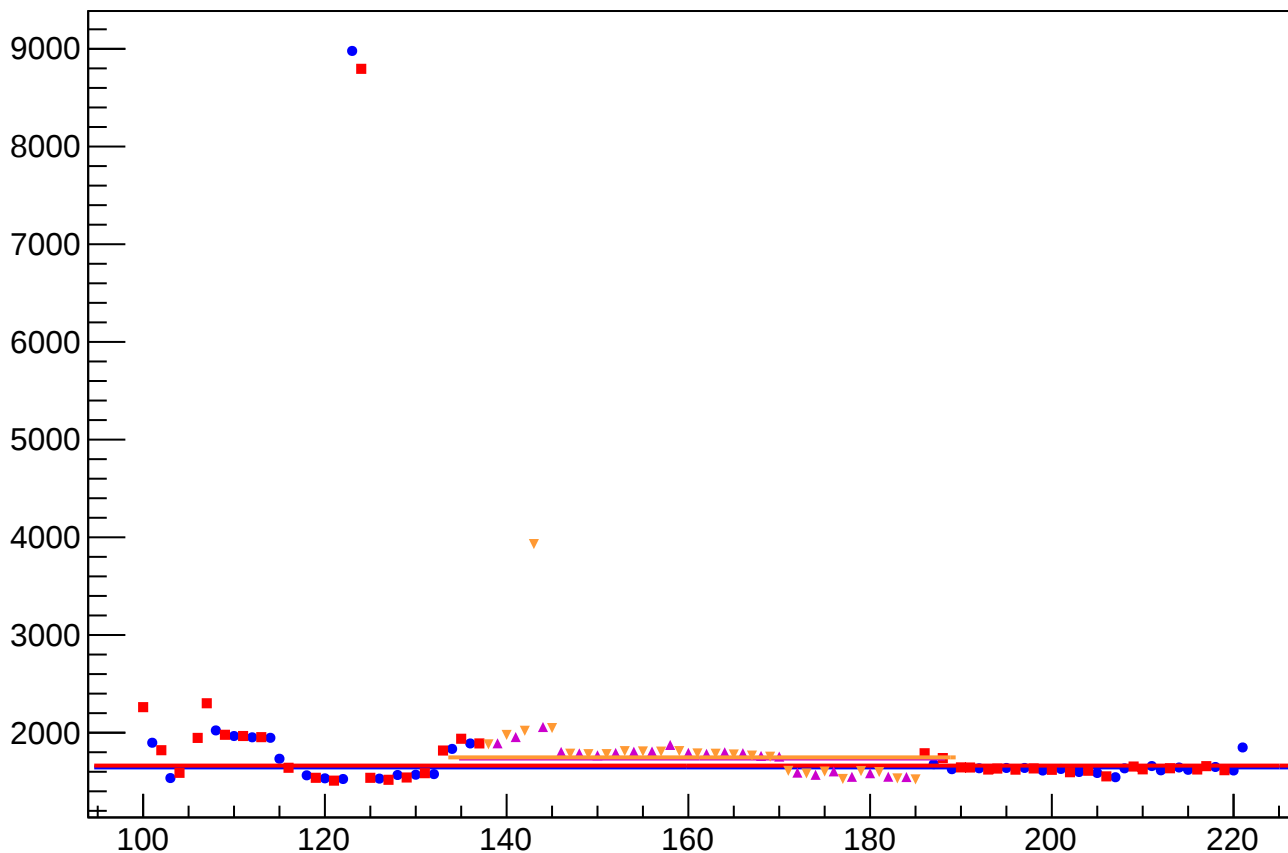
Right: -349.574 ± 267.445 $\chi^2/\text{NDF}: 65.4/71$

In: -332.384 ± 279.553 $\chi^2/\text{NDF}: 32.0/57$

Out: -296.008 ± 279.262 $\chi^2/\text{NDF}: 77.2/61$

All: -314.177 ± 197.571 $\chi^2/\text{NDF}: 109.2/119$

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1644.797 $\pm$ 0.266 χ^2 /NDF: 223565.5/34

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1663.252 $\pm$ 0.268 χ^2 /NDF: 436291.1/36

Left In: 1735.540 $\pm$ 0.295 χ^2 /NDF: 206766.6/22

Left: 1741.517 $\pm$ 0.207 χ^2 /NDF: 905766.2/47

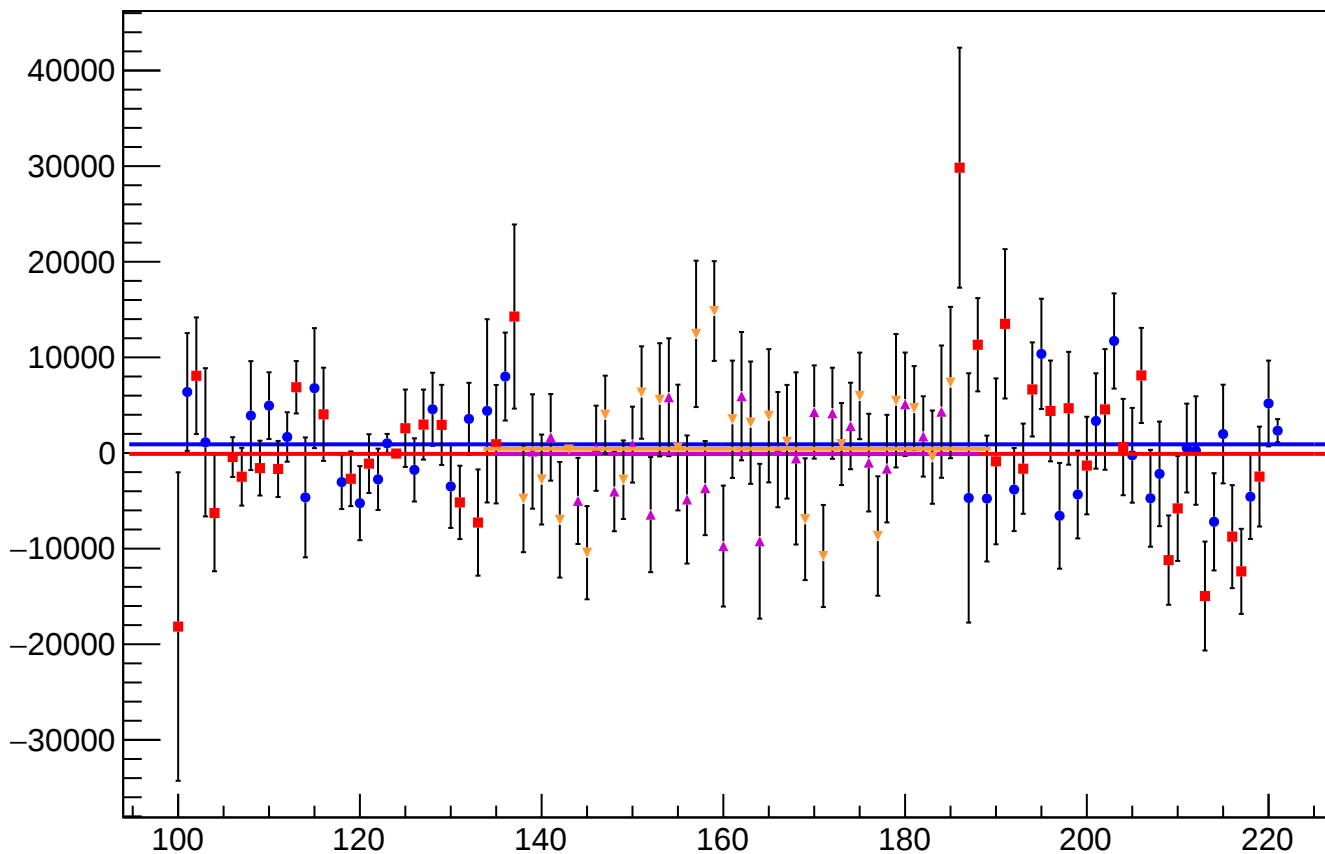
Right: 1653.942 $\pm$ 0.189 χ^2 /NDF: 662240.7/71

In: 1685.453 $\pm$ 0.198 χ^2 /NDF: 482446.5/57

Out: 1701.905 $\pm$ 0.197 χ^2 /NDF: 1179571.5/61

All: 1693.694 $\pm$ 0.140 χ^2 /NDF: 1665487.5/11

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 906.816+/-548.369 χ^2/NDF : 36.5/34

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: -91.358+/-344.285 χ^2/NDF : 65.6/36

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

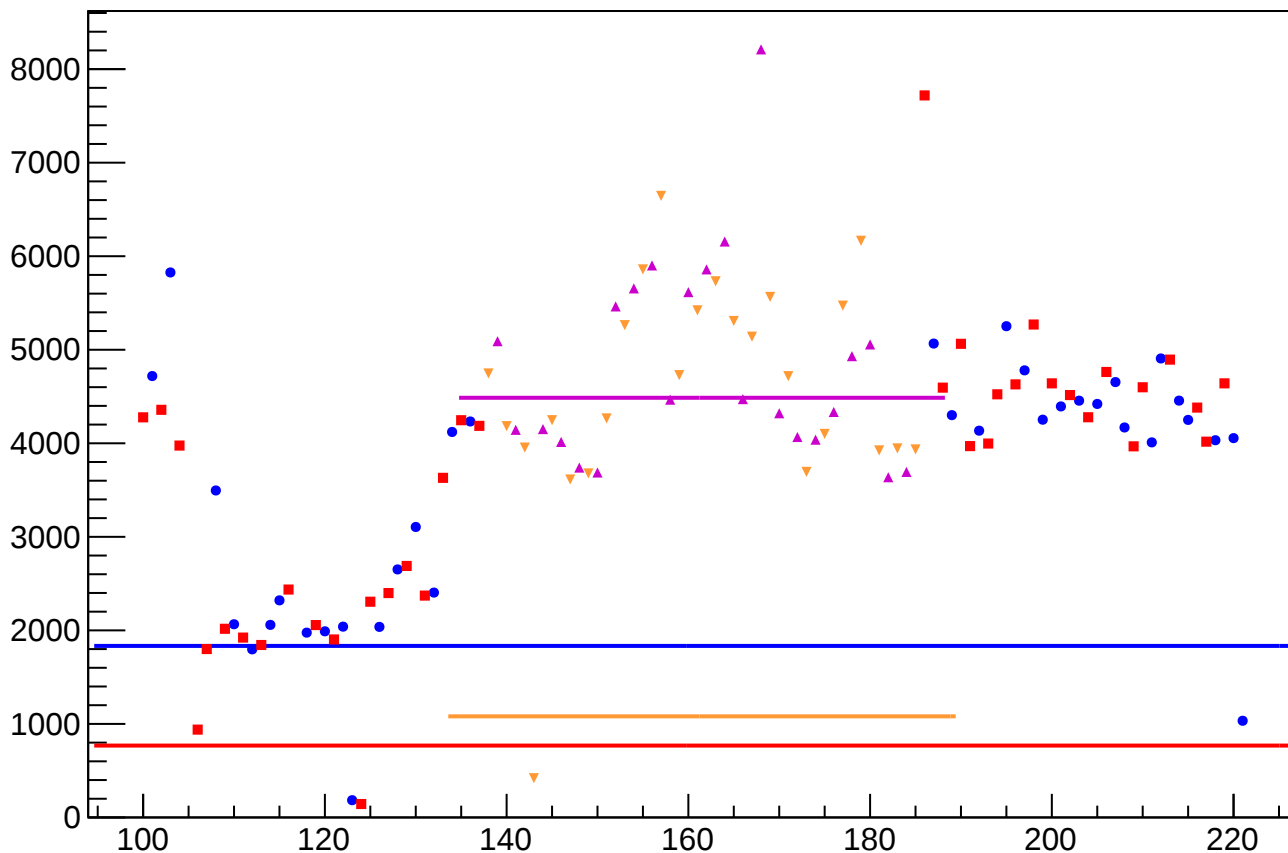
Right: 190.856+/-291.581 χ^2/NDF : 104.5/71

In: 707.199+/-490.306 χ^2/NDF :50.6/57

Out: 111.065+/-271.223 χ^2/NDF :100.4/61

All: 250.740+/-237.332 χ^2/NDF : 152.2/119

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1833.950+/-0.388

χ^2/NDF : 16931479.6/34

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 768.512+/-0.243

χ^2/NDF : 28568412.6/36

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

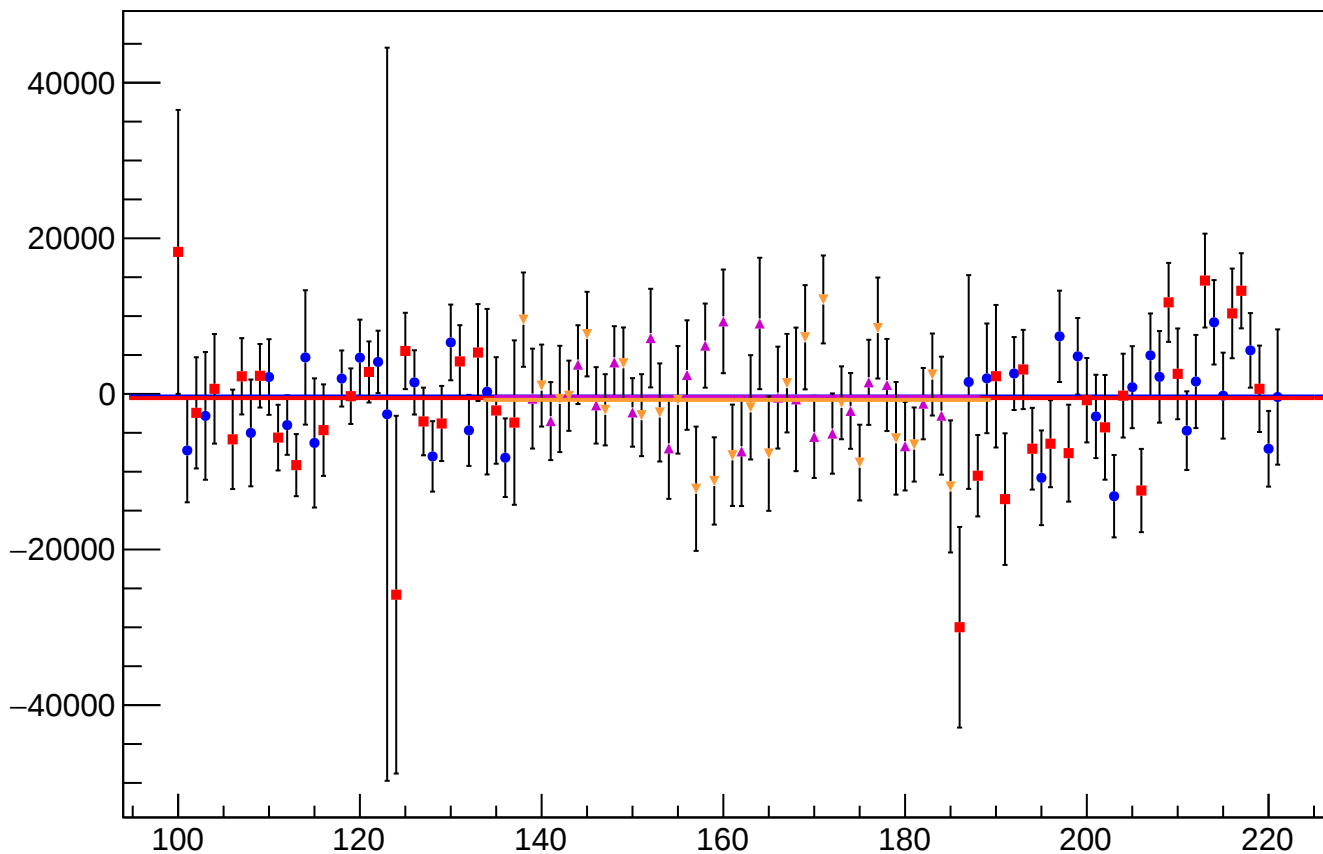
Right: 1069.744+/-0.206 χ^2/NDF : 50915193.8/71

In: 2365.948+/-0.347 χ^2/NDF : 27498816.4/57

Out: 887.069+/-0.192 χ^2/NDF : 53649770.1/61

All: 1233.574+/-0.168 χ^2/NDF : 95080735.7/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -333.788+/-914.663 χ^2/NDF : 35.8/34

Left Out: -766.008+/-1147.372 χ^2/NDF : 29.9/24

Right Out: -540.007+/-902.088 χ^2/NDF : 60.9/36

Left In: -388.944+/-1186.300 χ^2/NDF : 14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

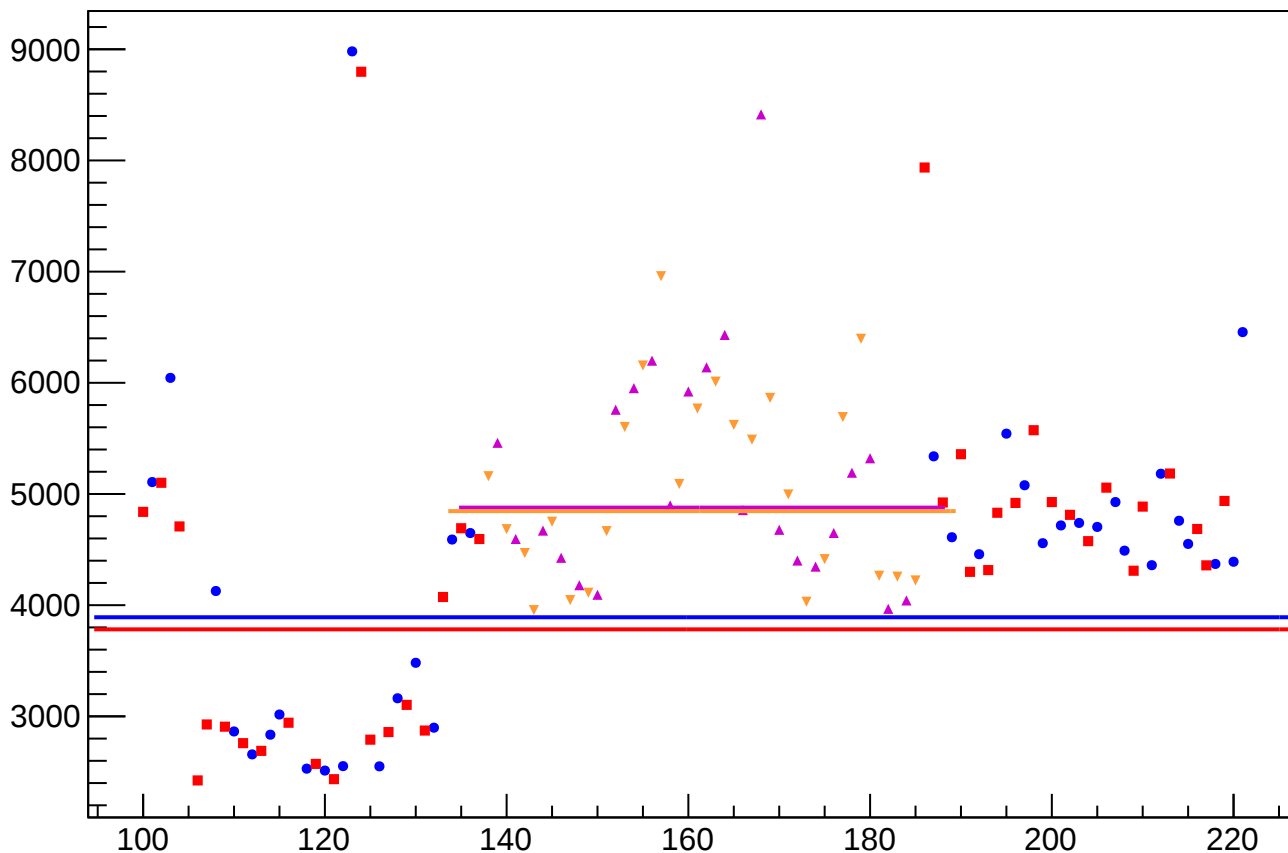
Right: -438.324+/-642.272 χ^2/NDF : 96.8/71

In: -354.352+/-724.356 χ^2/NDF : 50.0/57

Out: -626.341+/-709.153 χ^2/NDF : 90.9/61

All: -493.230+/-506.737 χ^2/NDF : 141.0/119

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3891.315 ± 0.647 $\chi^2/\text{NDF}: 2656271.4/34$

Left Out: 4845.779 ± 0.811 $\chi^2/\text{NDF}: 909173.9/24$

Right Out: 3782.551 ± 0.633 $\chi^2/\text{NDF}: 3004227.9/36$

Left In: 4877.456 ± 0.839 $\chi^2/\text{NDF}: 958623.2/22$

Left: 4861.089 ± 0.583 $\chi^2/\text{NDF}: 1868533.9/47$

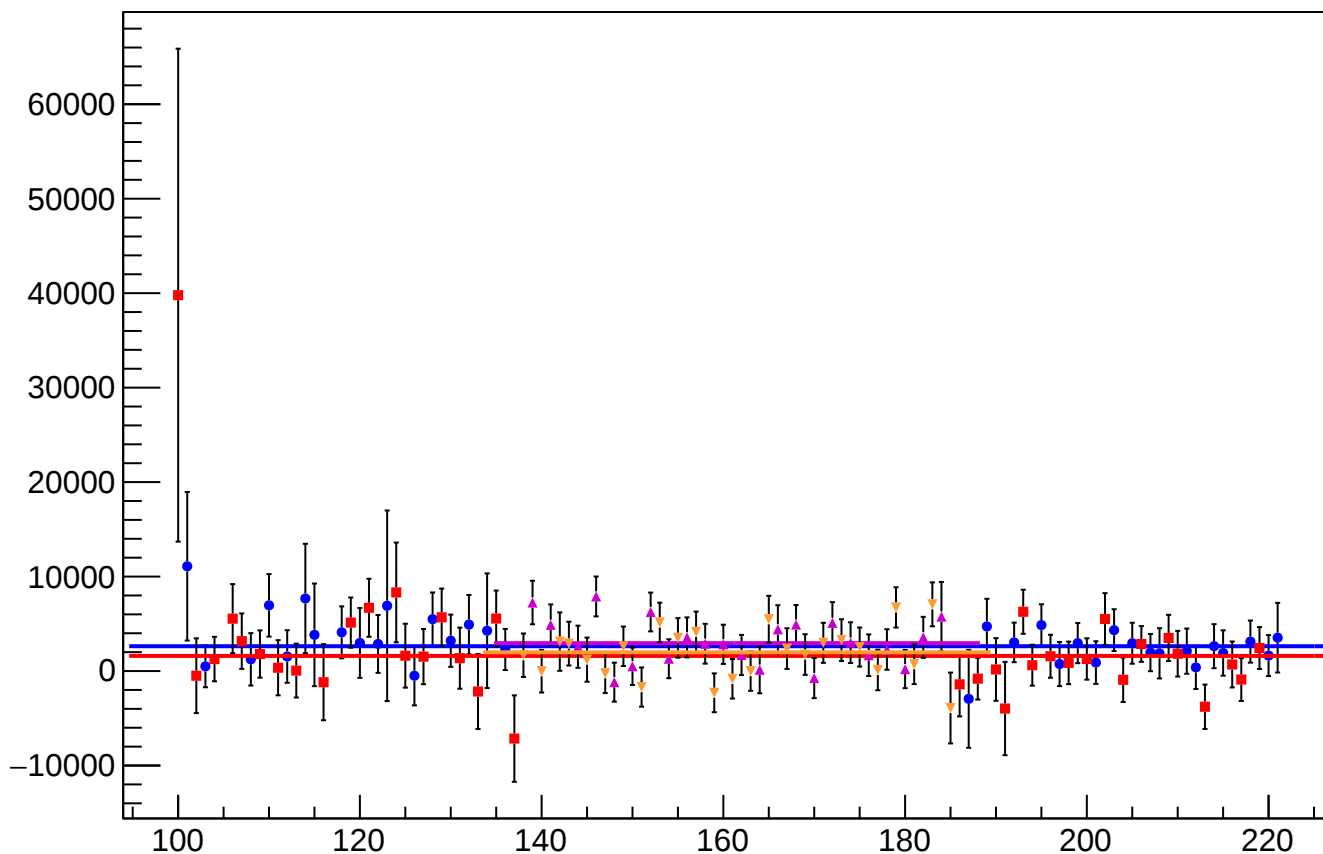
Right: 3835.787 ± 0.452 $\chi^2/\text{NDF}: 5674937.1/71$

In: 4258.980 ± 0.512 $\chi^2/\text{NDF}: 4481661.4/57$

Out: 4185.090 ± 0.499 $\chi^2/\text{NDF}: 4980600.1/61$

All: 4221.086 ± 0.357 $\chi^2/\text{NDF}: 9472934.6/11$

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2629.069+/-453.102 χ^2/NDF : 14.4/34

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1601.393+/-451.066 χ^2/NDF : 37.9/36

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

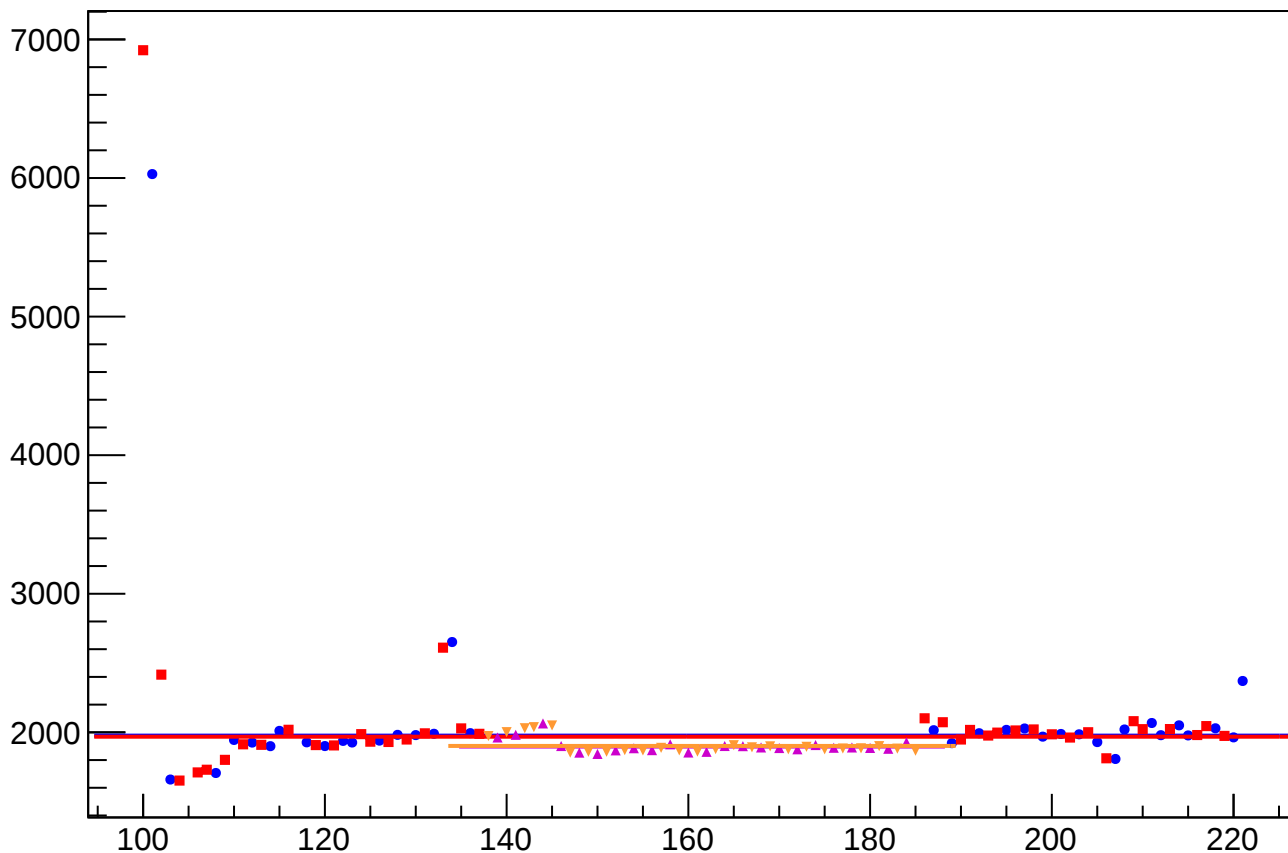
Right: 2112.916+/-319.669 χ^2/NDF : 54.9/71

In: 2791.963+/-320.902 χ^2/NDF : 43.1/57

Out: 1796.813+/-316.130 χ^2/NDF : 70.7/61

All: 2286.934+/-225.206 χ^2/NDF : 118.7/119

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1976.329+/-0.320 χ^2/NDF : 667179.4/34

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1968.536+/-0.319 χ^2/NDF : 257500.3/36

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

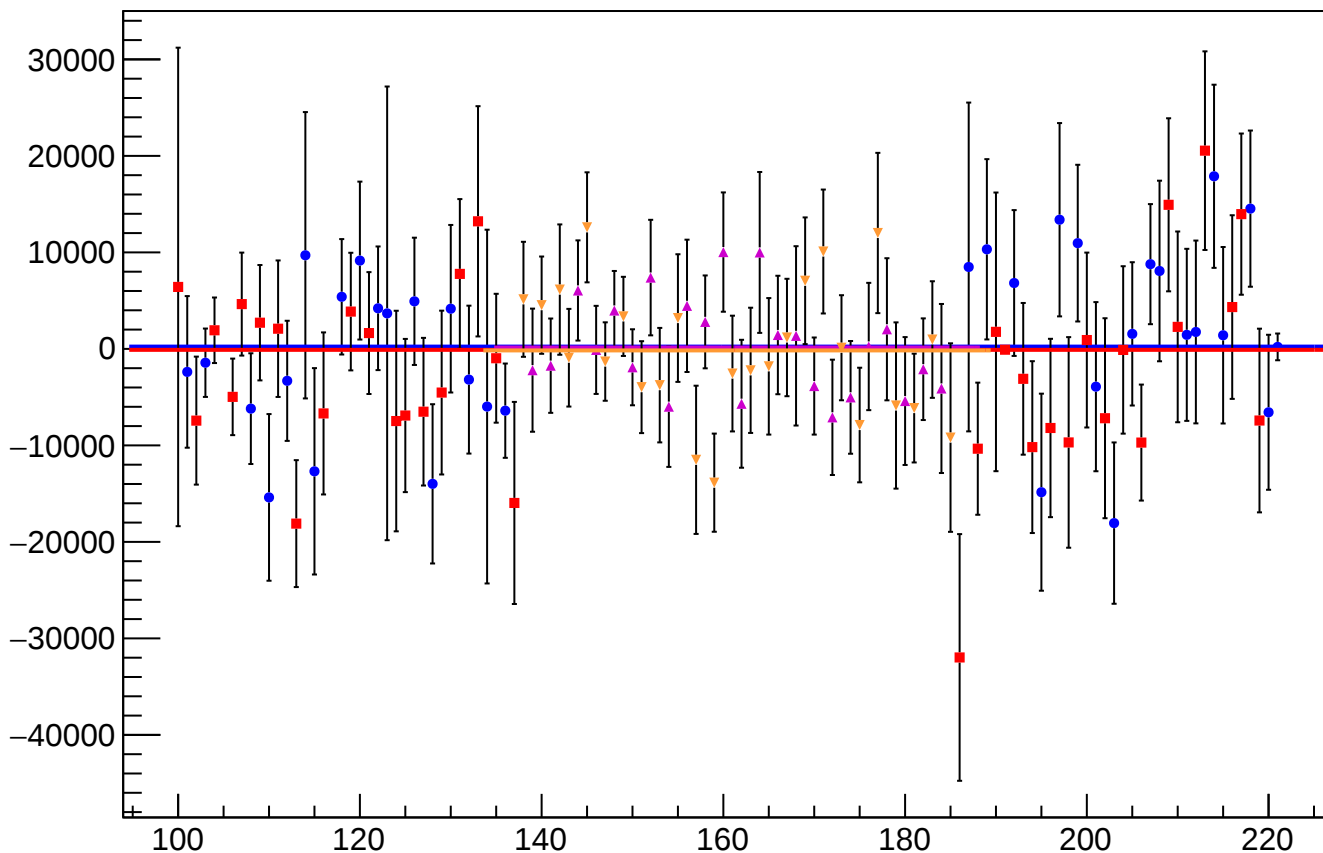
Right: 1972.412+/-0.226 χ^2/NDF : 924977.1/71

In: 1937.018+/-0.227 χ^2/NDF : 718564.6/57

Out: 1934.652+/-0.223 χ^2/NDF : 310186.3/61

All: 1935.817+/-0.159 χ^2/NDF : 1028806.1/11

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 237.502 $\pm$ 949.568 χ^2 /NDF: 38.0/34

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -99.164 $\pm$ 109.506 χ^2 /NDF: 44.6/36

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

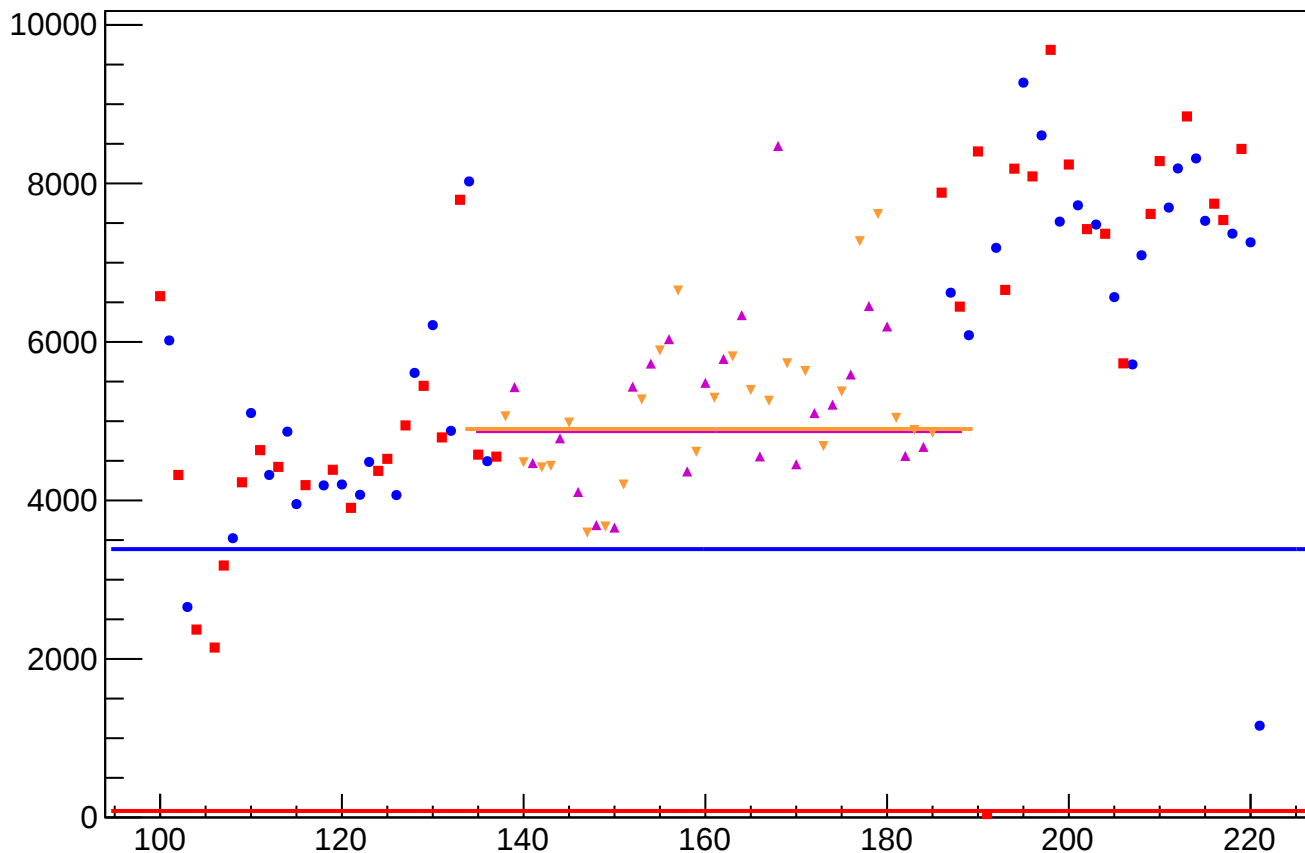
Right: -94.745 $\pm$ 108.785 χ^2 /NDF: 82.8/71

In: 199.217 $\pm$ 742.443 χ^2 /NDF:52.8/57

Out: -99.674 $\pm$ 109.027 χ^2 /NDF:74.1/61

All: -93.365 $\pm$ 107.870 χ^2 /NDF: 127.0/119

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 3385.789 $\pm$ 0.671 χ^2 /NDF: 13685284.4/34

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 81.904 $\pm$ 0.077 χ^2 /NDF: 37282169.6/36

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

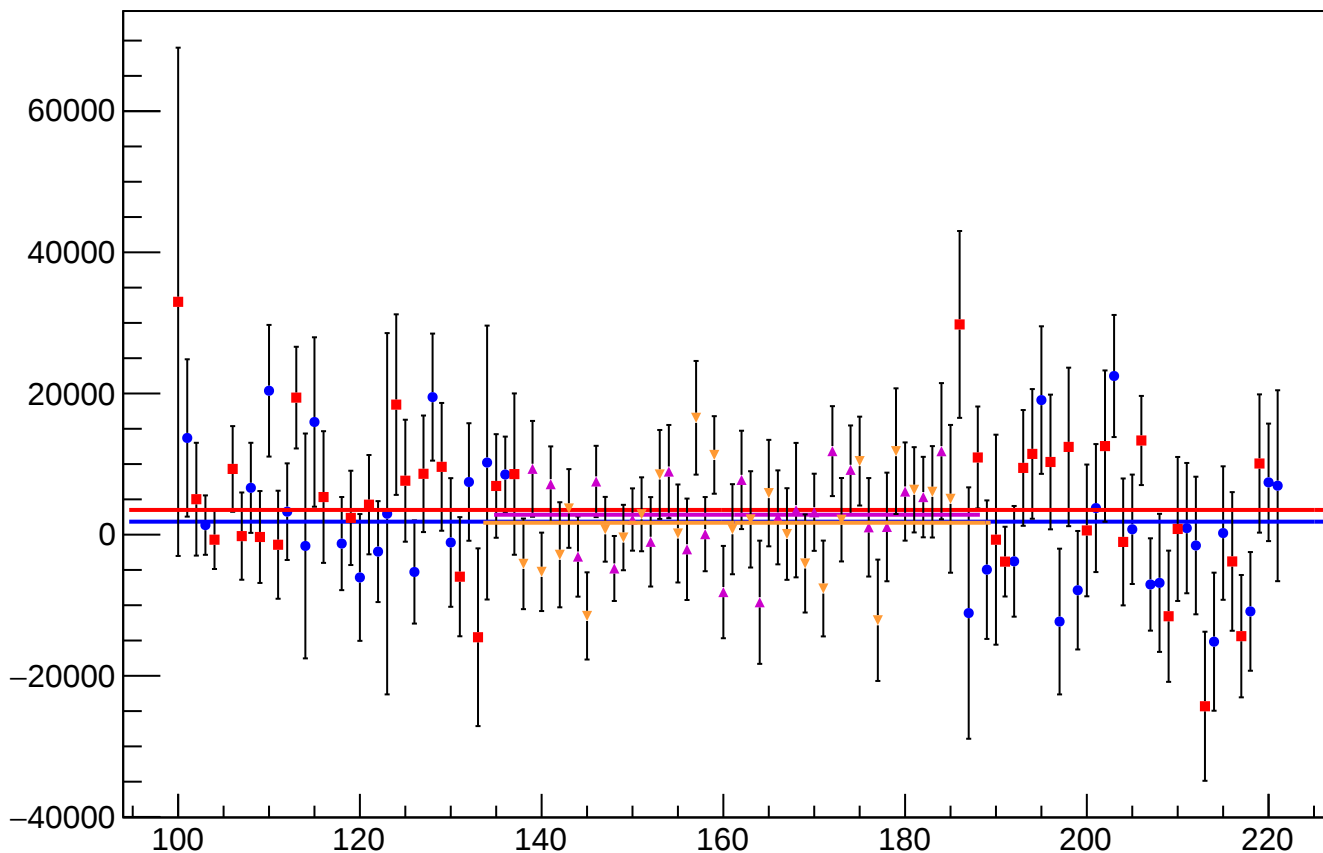
Right: 125.266 $\pm$ 0.077 χ^2 /NDF: 74861499.3/71

In: 3964.648 $\pm$ 0.525 χ^2 /NDF: 16826707.6/57

Out: 124.052 $\pm$ 0.077 χ^2 /NDF: 72298003.4/61

All: 205.124 $\pm$ 0.076 χ^2 /NDF: 141513082.6/1

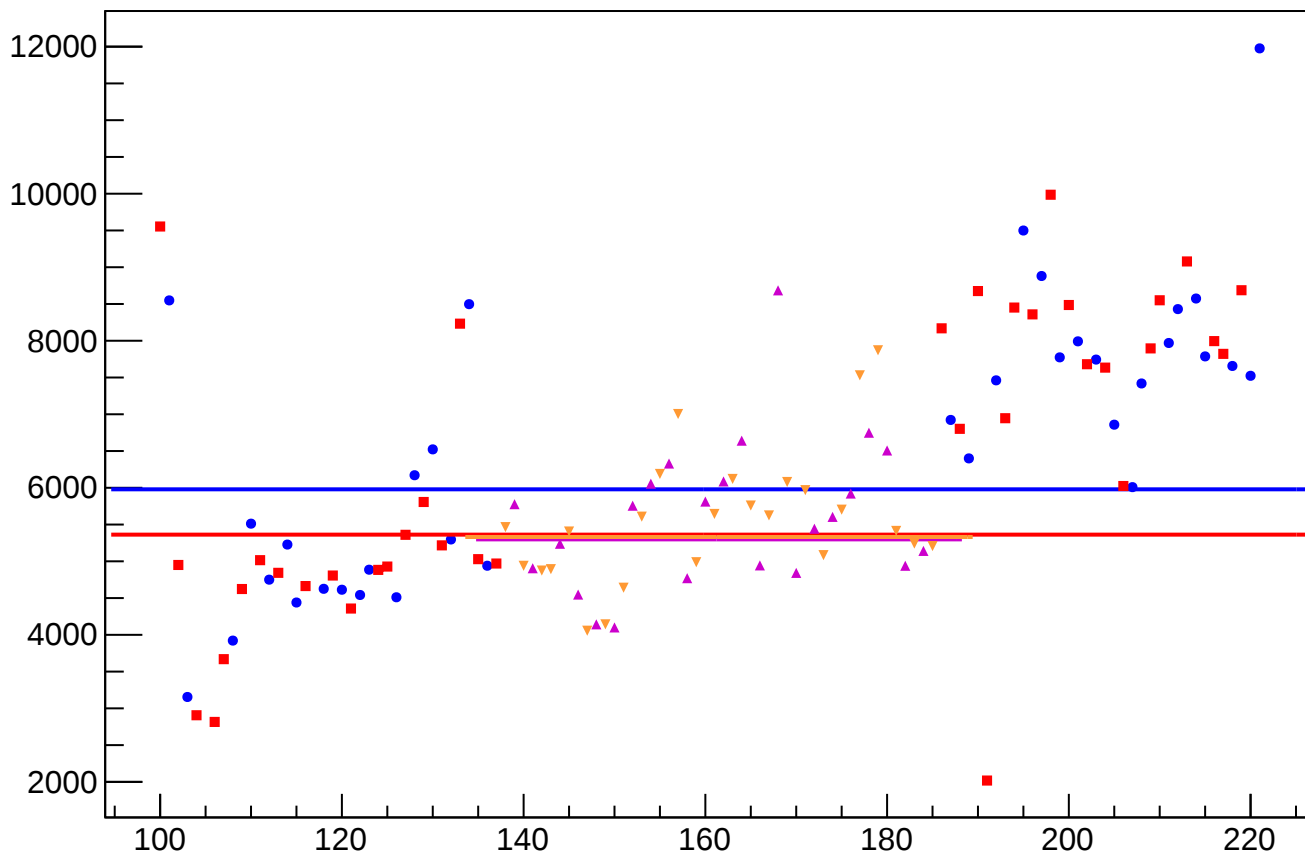
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1839.583+/-1413.491 χ^2/NDF : 37.5/34
 Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24
 Right Out: 3501.460+/-1321.511 χ^2/NDF : 43.0/36
 Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47
 Right: 2726.349+/-965.330 χ^2/NDF : 81.2/71
 In: 2377.308+/-952.201 χ^2/NDF : 55.8/57
 Out: 2551.960+/-912.550 χ^2/NDF : 69.3/61
 All: 2468.346+/-658.842 χ^2/NDF : 125.1/119

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5979.189+/-0.999 χ^2/NDF : 3530111.8/34

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 5362.788+/-0.931 χ^2/NDF : 5131025.6/36

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

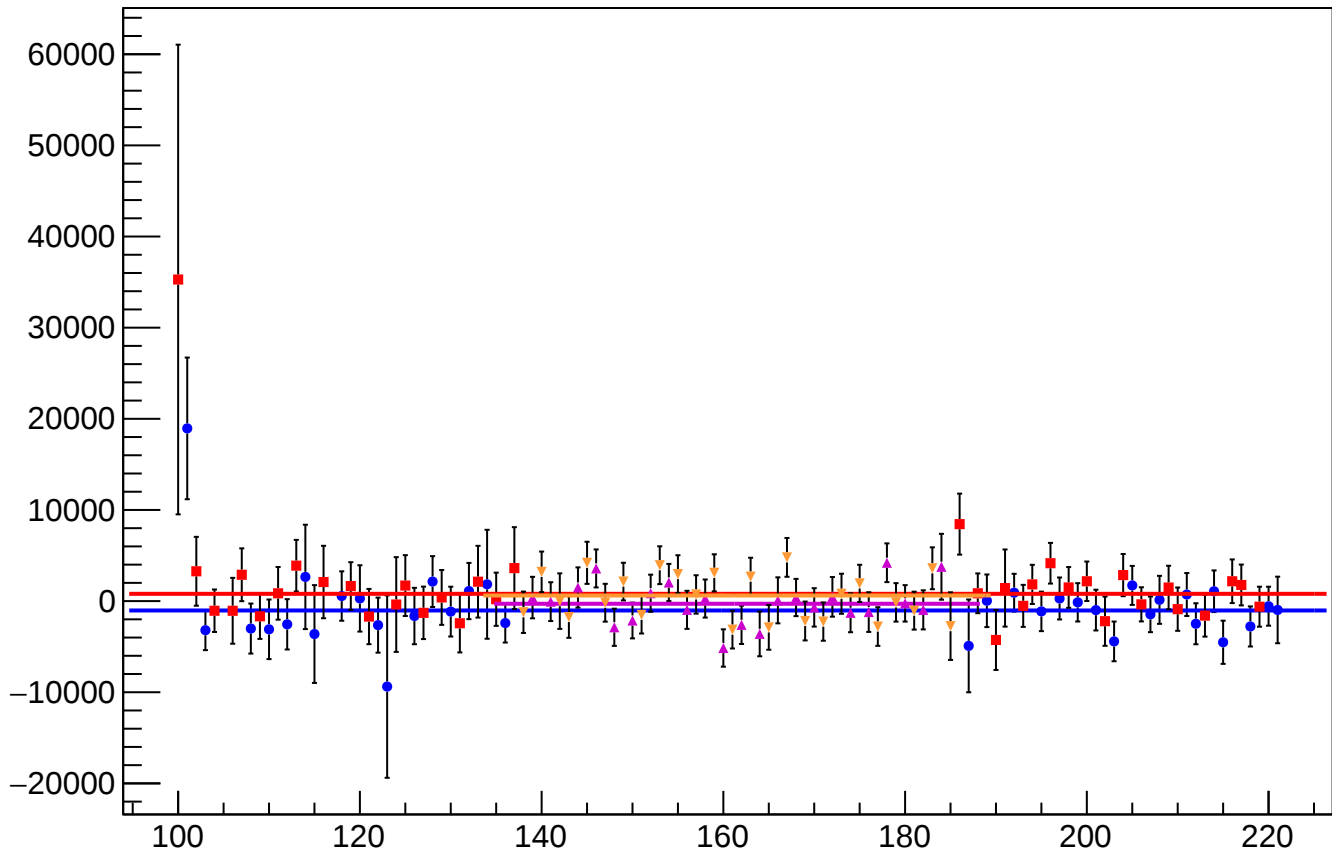
Right: 5649.237+/-0.681 χ^2/NDF : 8864728.3/71

In: 5607.308+/-0.673 χ^2/NDF : 4739591.2/57

Out: 5346.068+/-0.644 χ^2/NDF : 5999705.4/61

All: 5470.924+/-0.465 χ^2/NDF : 10817888.5/122

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1029.094 $\pm$ 447.212 χ^2 /NDF: 24.5/34

Left Out: 612.314 $\pm$ 438.264 χ^2 /NDF:32.7/24

Right Out: 798.149 $\pm$ 444.568 χ^2 /NDF: 24.9/36

Left In: -293.009 $\pm$ 449.575 χ^2 /NDF:23.6/22

Left: 171.185 $\pm$ 313.822 χ^2 /NDF: 58.4/47

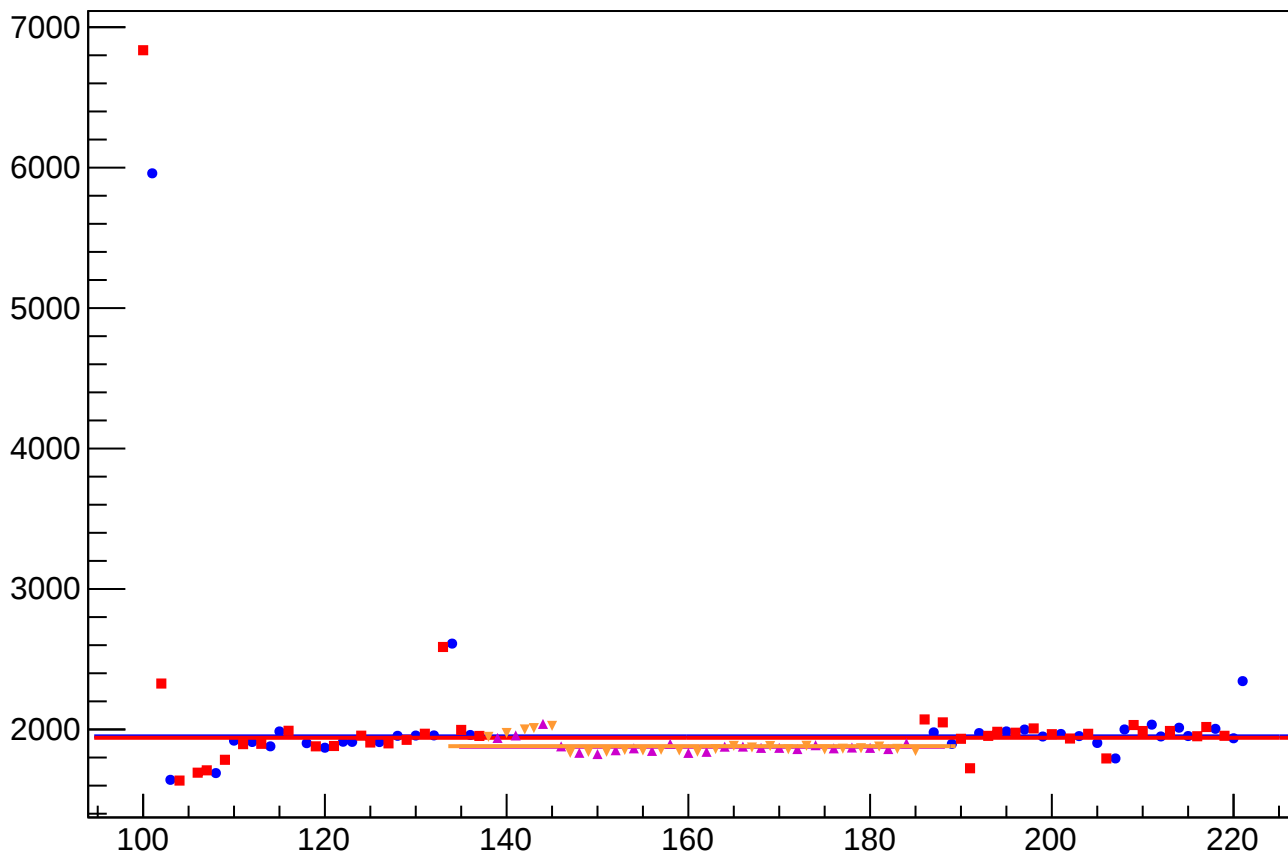
Right: -110.053 $\pm$ 315.288 χ^2 /NDF: 57.7/71

In: -662.991 $\pm$ 317.059 χ^2 /NDF:49.5/57

Out: 703.905 $\pm$ 312.104 χ^2 /NDF:57.7/61

All: 31.221 $\pm$ 222.422 χ^2 /NDF: 116.6/119

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1950.725+/-0.316 χ^2/NDF : 663443.5/34

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1940.678+/-0.314 χ^2/NDF : 253629.5/36

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

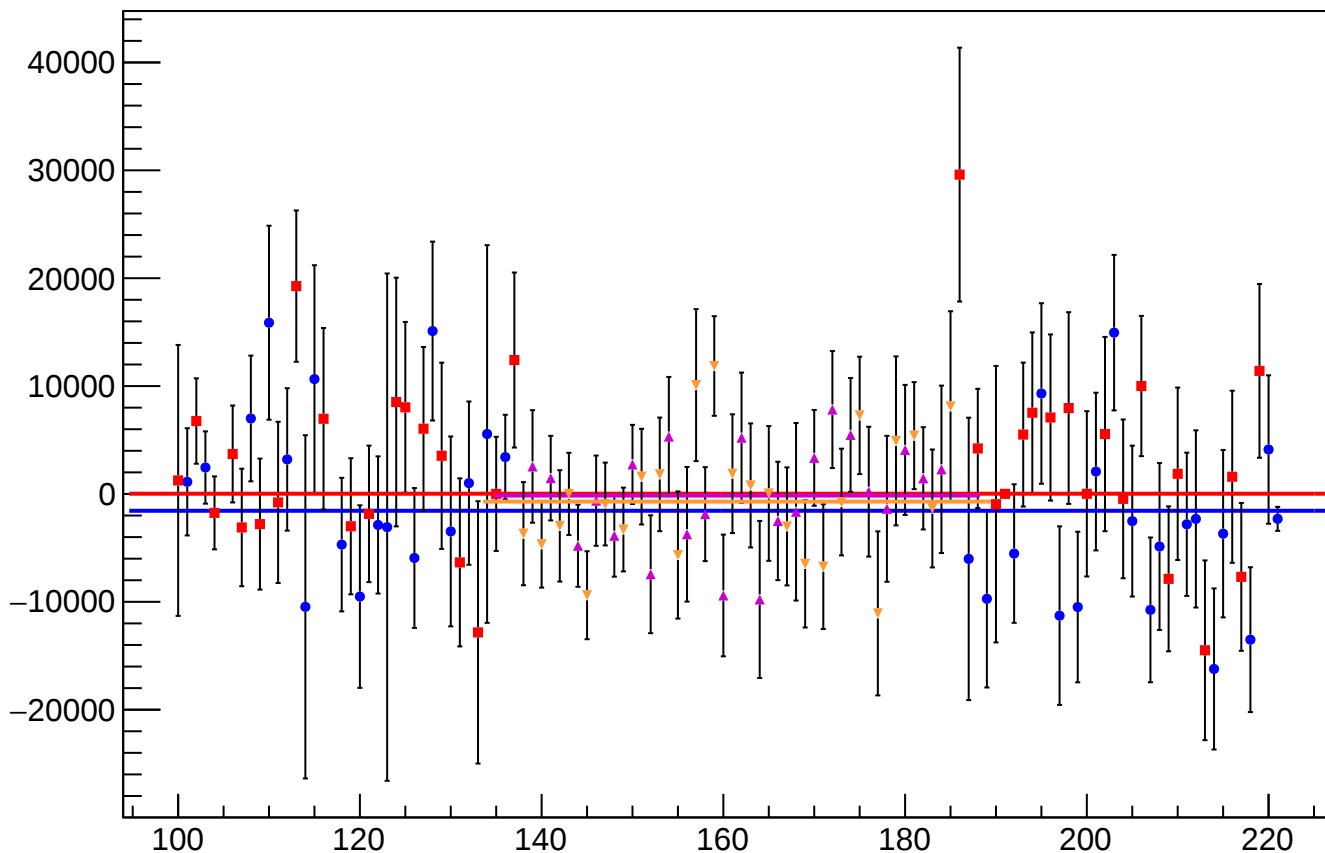
Right: 1945.668+/-0.223 χ^2/NDF : 917581.1/71

In: 1913.900+/-0.224 χ^2/NDF : 711208.9/57

Out: 1910.341+/-0.221 χ^2/NDF : 300695.7/61

All: 1912.092+/-0.157 χ^2/NDF : 1012032.7/11

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -1559.570 ± 809.741 χ^2/NDF : 39.5/34

Left Out: -707.785 ± 1017.719 χ^2/NDF : 27.1/24

Right Out: 22.226 ± 85.763 χ^2/NDF : 40.2/36

Left In: -150.495 ± 1053.655 χ^2/NDF : 16.9/22

Left: -438.806 ± 732.011 χ^2/NDF : 44.2/47

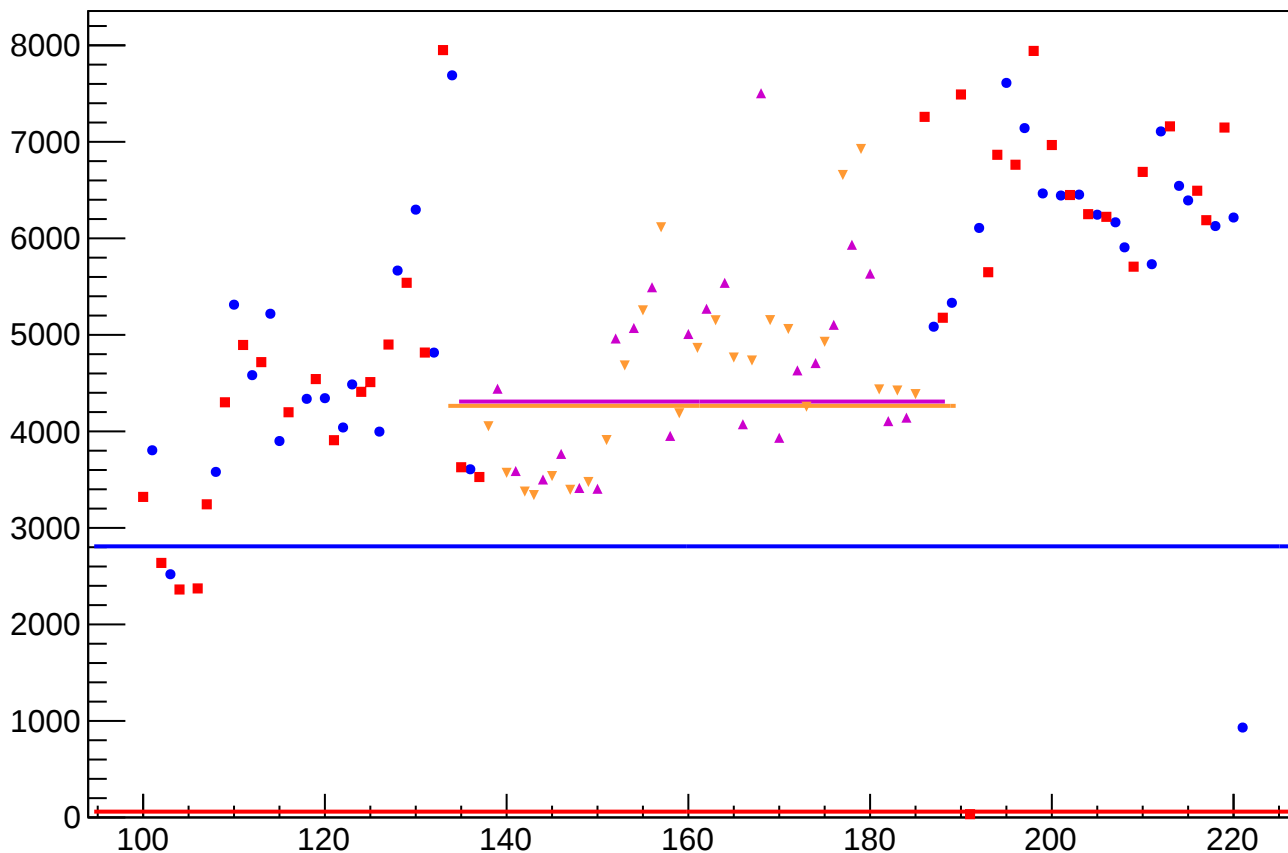
Right: 4.678 ± 85.286 χ^2/NDF : 83.4/71

In: -1036.370 ± 642.045 χ^2/NDF : 57.5/57

Out: 17.078 ± 85.461 χ^2/NDF : 67.8/61

All: -1.261 ± 84.713 χ^2/NDF : 128.0/119

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 2809.010 $\pm$ 0.573 χ^2 /NDF: 15143291.0/34

Left Out: 4264.433 $\pm$ 0.720 χ^2 /NDF:1354900.8/24

Right Out: 60.351 $\pm$ 0.061 χ^2 /NDF: 37471355.1/36

Left In: 4309.034 $\pm$ 0.745 χ^2 /NDF:1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2 /NDF: 2661888.1/47

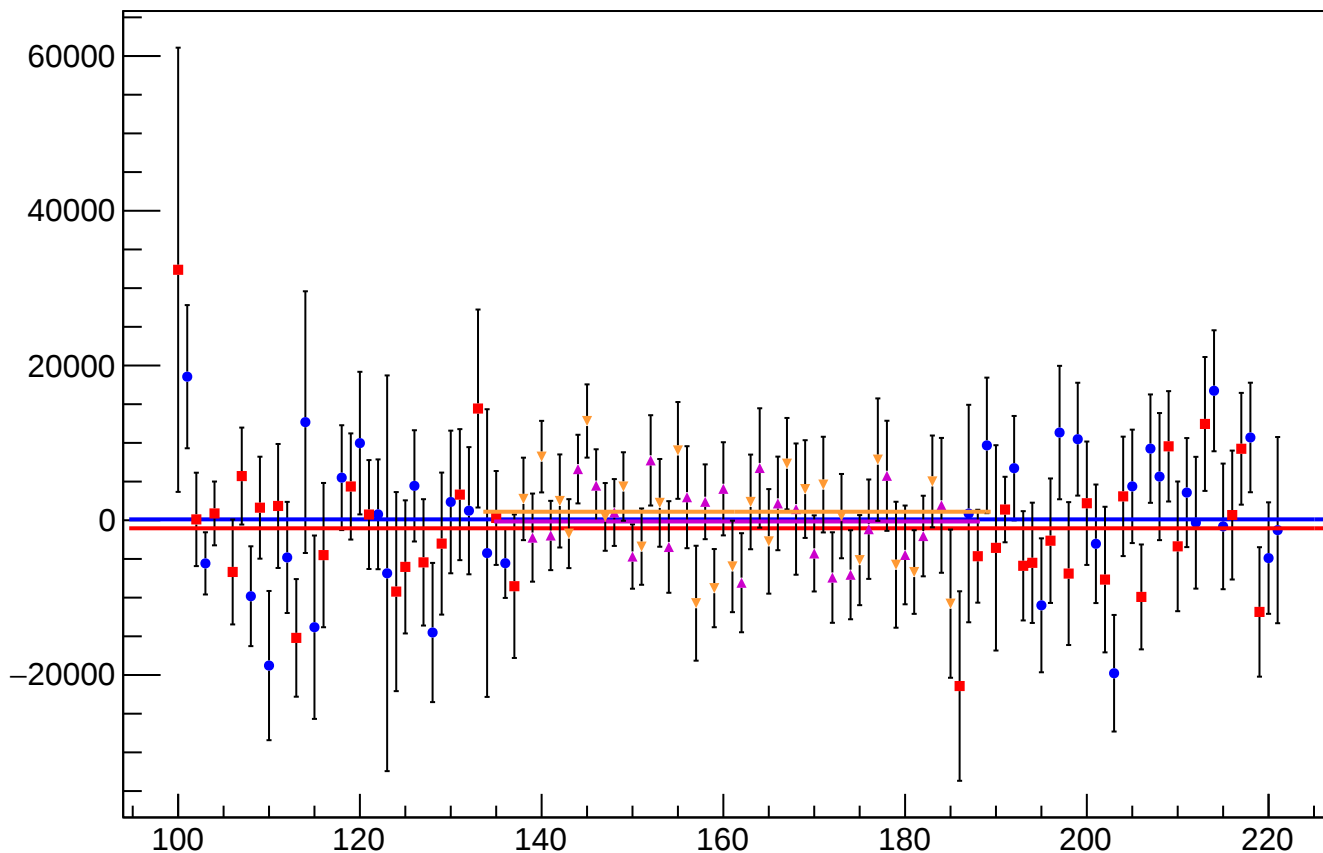
Right: 90.843 $\pm$ 0.060 χ^2 /NDF: 75404121.3/71

In: 3365.980 $\pm$ 0.454 χ^2 /NDF:18996825.2/57

Out: 89.995 $\pm$ 0.060 χ^2 /NDF:72714063.5/61

All: 147.027 $\pm$ 0.060 χ^2 /NDF: 142873849.5/1

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 116.200 $\pm$ 1302.104 χ^2 /NDF: 45.8/34

Left Out: 1102.204 $\pm$ 1126.663 χ^2 /NDF: 28.6/24

Right Out: -1039.648 $\pm$ 1222.485 χ^2 /NDF: 27.4/36

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

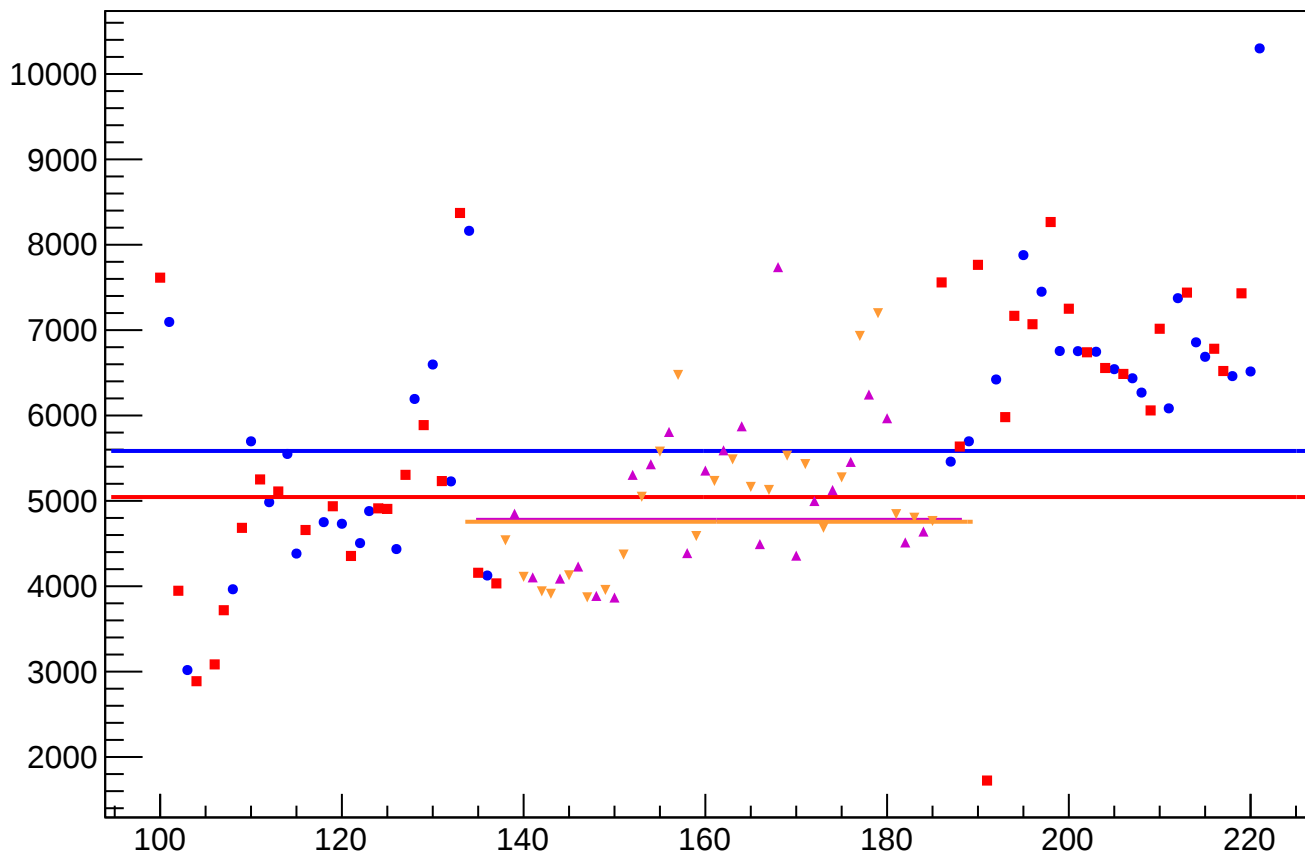
Right: -498.140 $\pm$ 891.246 χ^2 /NDF: 73.7/71

In: -36.878 $\pm$ 866.771 χ^2 /NDF: 61.4/57

Out: 118.499 $\pm$ 828.478 χ^2 /NDF: 57.6/61

All: 44.319 $\pm$ 598.903 χ^2 /NDF: 119.0/119

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5584.650 $\pm$ 0.921 χ^2 /NDF: 2510429.4/34

Left Out: 4755.383 $\pm$ 0.797 χ^2 /NDF: 953328.0/24

Right Out: 5044.843 $\pm$ 0.862 χ^2 /NDF: 4164296.0/36

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

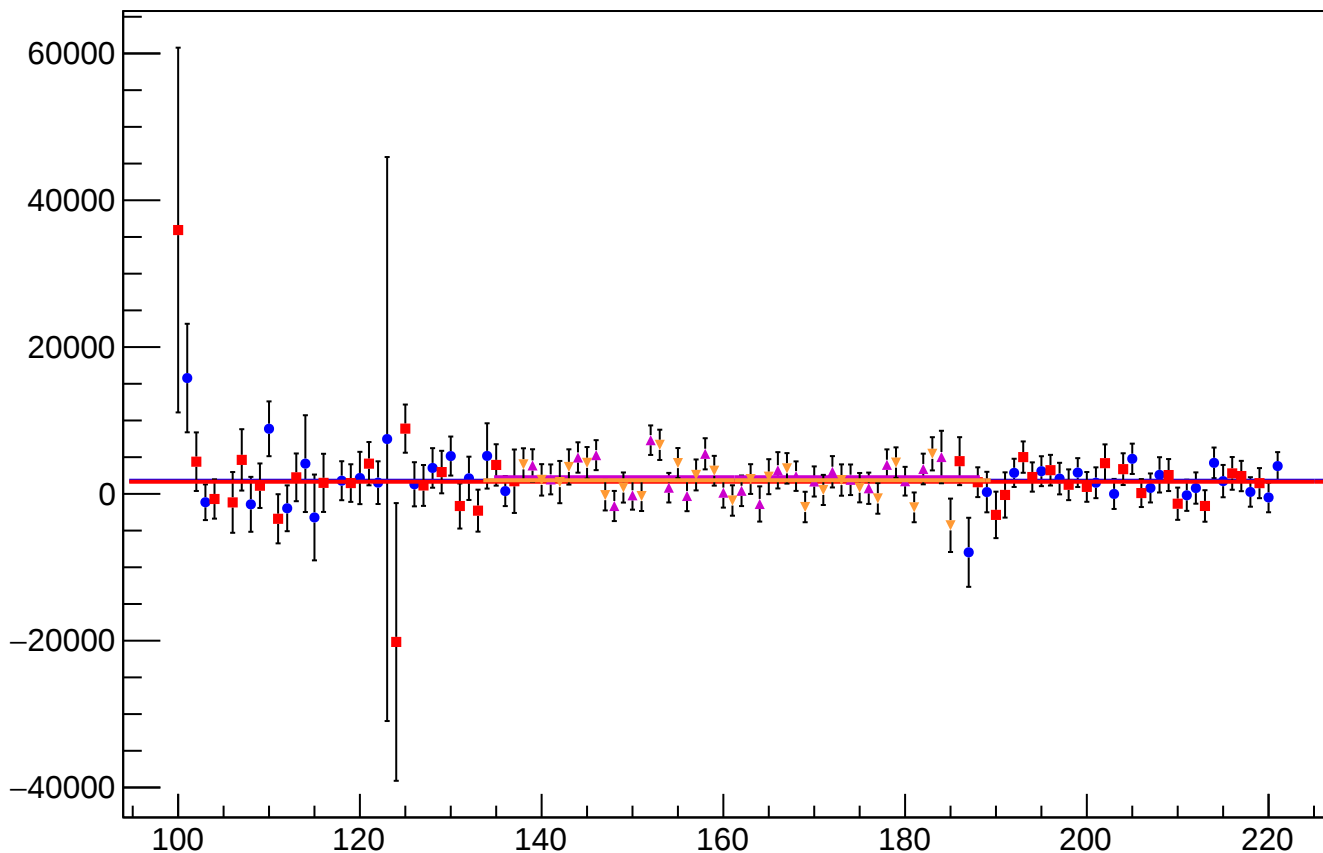
Right: 5296.955 $\pm$ 0.629 χ^2 /NDF: 6857918.8/71

In: 5135.345 $\pm$ 0.613 χ^2 /NDF: 3888338.9/57

Out: 4888.745 $\pm$ 0.585 χ^2 /NDF: 5178446.1/61

All: 5006.313 $\pm$ 0.423 χ^2 /NDF: 9151491.0/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1792.620+/-424.124 χ^2/NDF : 29.1/34

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1655.410+/-432.024 χ^2/NDF : 30.8/36

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

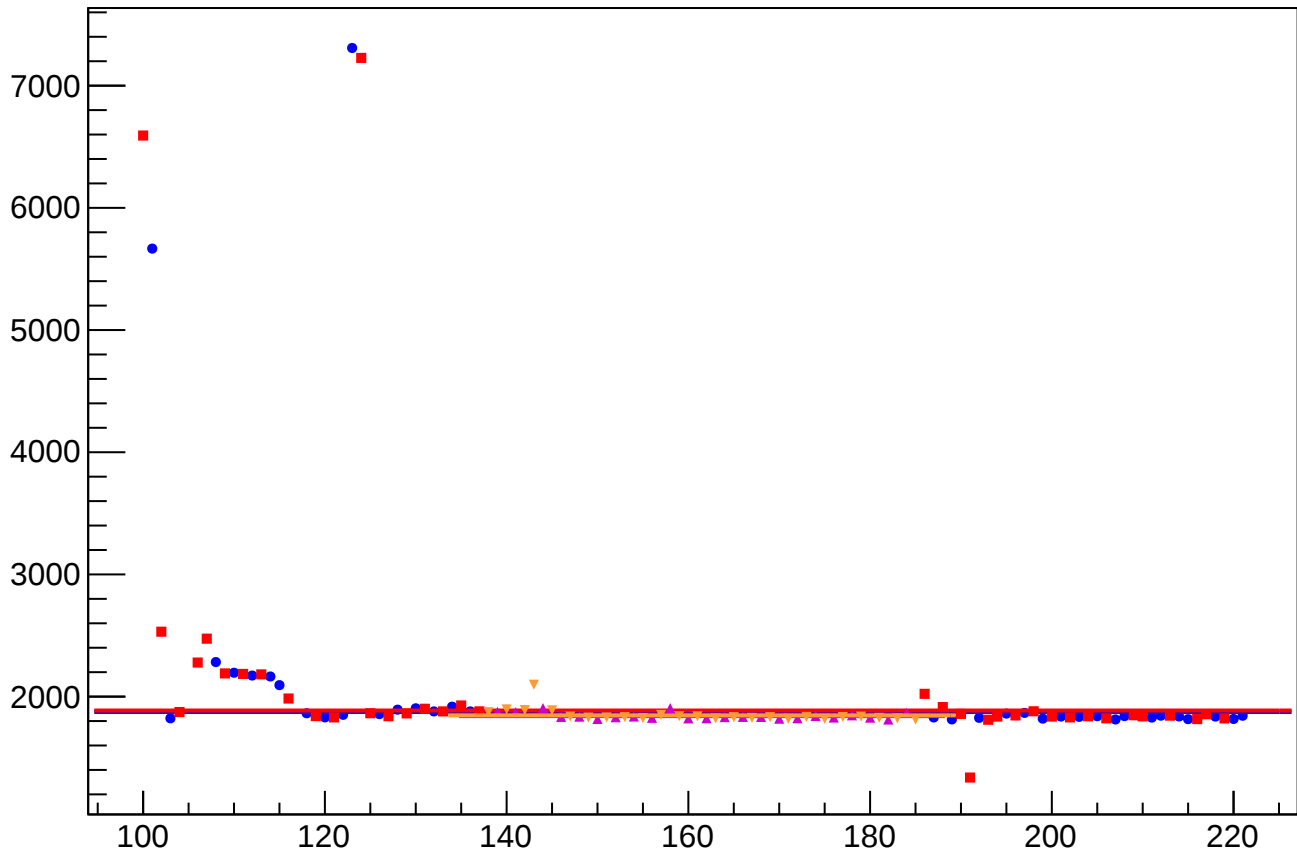
Right: 1725.281+/-302.655 χ^2/NDF : 60.0/71

In: 2020.881+/-305.929 χ^2/NDF :56.6/57

Out: 1756.234+/-305.116 χ^2/NDF :60.9/61

All: 1888.205+/-216.037 χ^2/NDF : 117.9/119

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1874.683 $\pm$ 0.300 χ^2 /NDF: 646504.8/34

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1886.245 $\pm$ 0.305 χ^2 /NDF: 481528.0/36

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

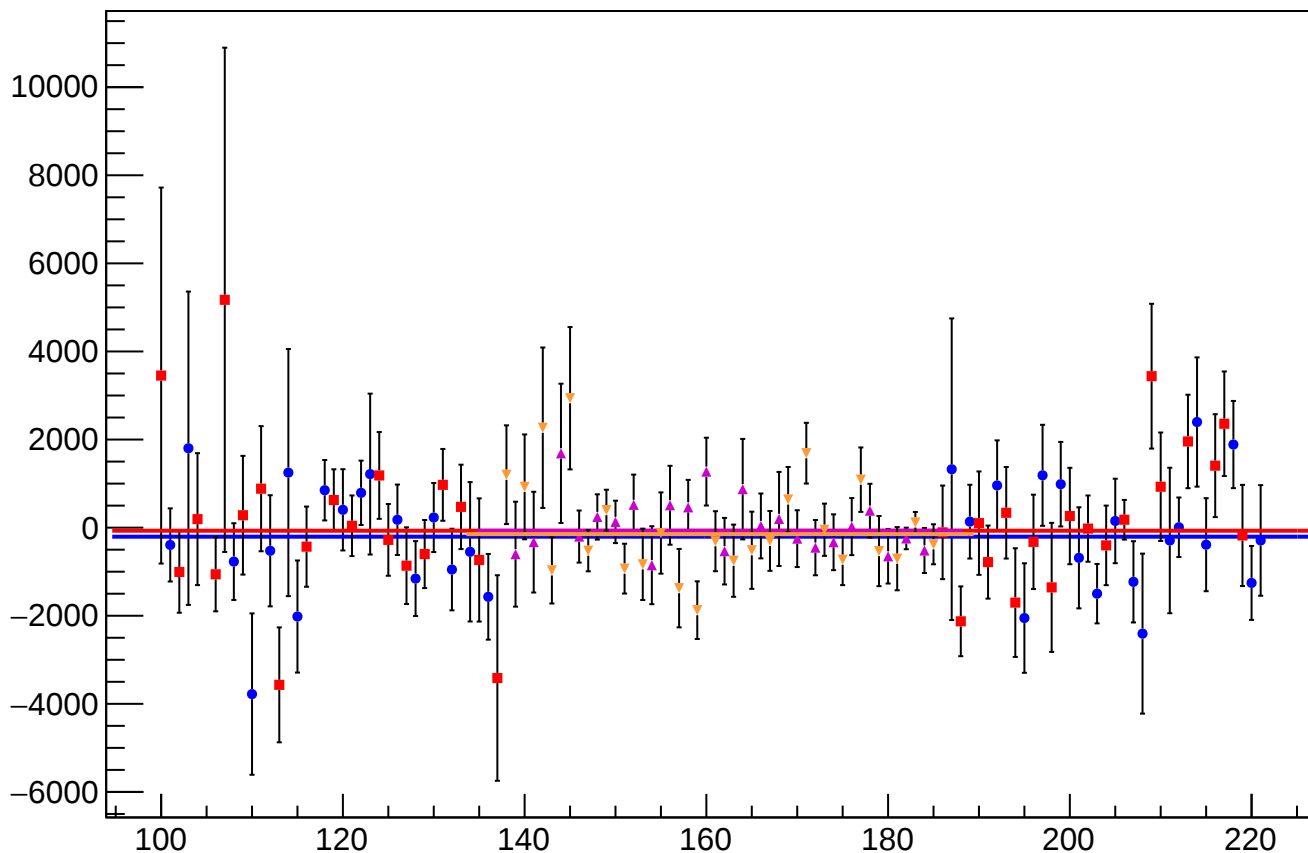
Right: 1880.358 $\pm$ 0.214 χ^2 /NDF: 1128762.2/71

In: 1858.306 $\pm$ 0.216 χ^2 /NDF: 659462.0/57

Out: 1866.376 $\pm$ 0.216 χ^2 /NDF: 517271.5/61

All: 1862.351 $\pm$ 0.153 χ^2 /NDF: 1177431.2/11

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -205.182 ± 169.849 χ^2/NDF : 39.6/34

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -69.816 ± 159.302 χ^2/NDF : 45.5/36

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

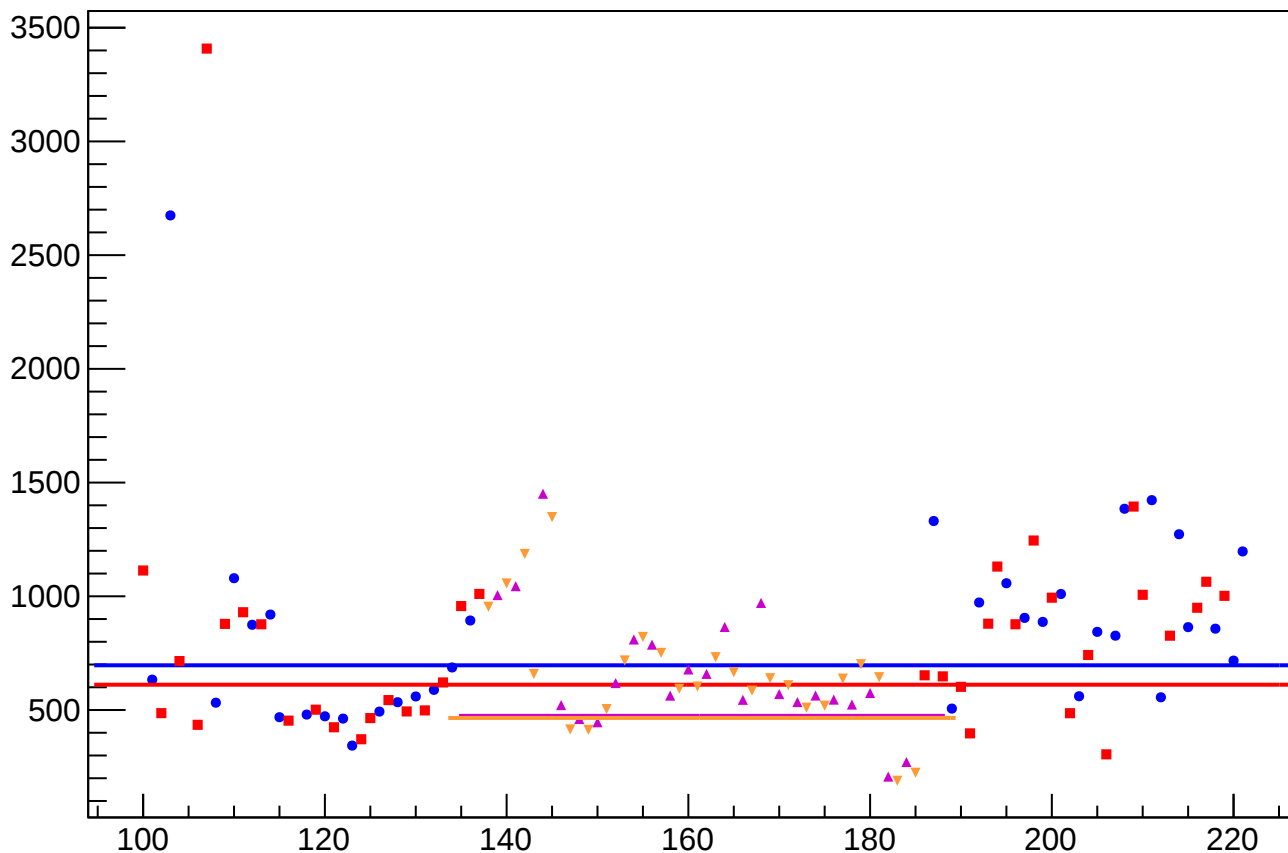
Right: -133.166 ± 116.194 χ^2/NDF : 85.4/71

In: -118.388 ± 101.388 χ^2/NDF : 52.3/57

Out: -118.470 ± 96.851 χ^2/NDF : 83.3/61

All: -118.431 ± 70.033 χ^2/NDF : 135.6/119

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 696.604+/-0.120 χ^2/NDF : 4317166.0/34

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 611.229+/-0.113 χ^2/NDF : 5445895.7/36

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

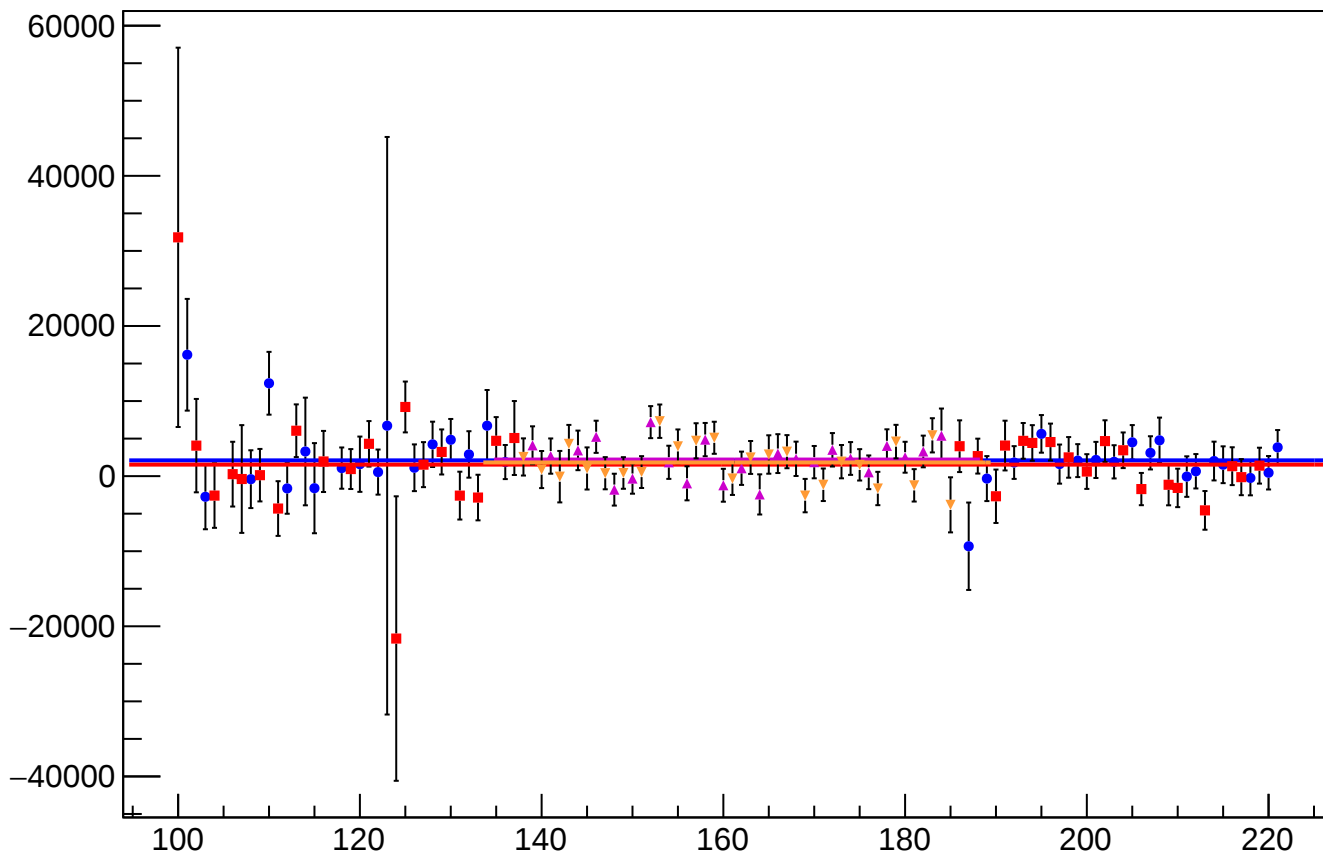
Right: 651.184+/-0.082 χ^2/NDF : 10031898.2/71

In: 553.489+/-0.072 χ^2/NDF : 12696285.9/57

Out: 519.100+/-0.068 χ^2/NDF : 13593171.5/61

All: 535.508+/-0.050 χ^2/NDF : 26409760.5/131

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2100.745 $\pm$ 482.181 χ^2 /NDF: 27.8/34

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1534.795 $\pm$ 493.020 χ^2 /NDF: 40.7/36

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

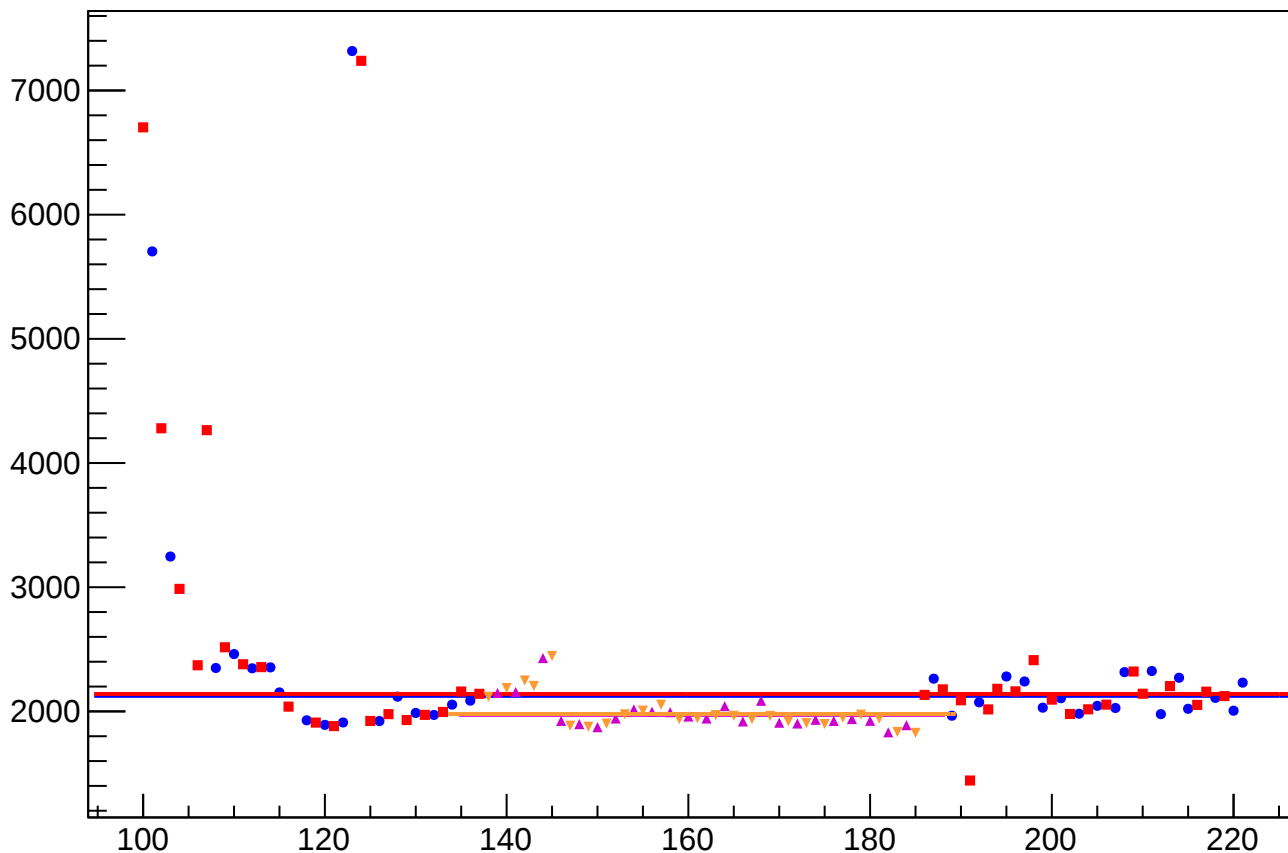
Right: 1824.060 $\pm$ 344.722 χ^2 /NDF: 69.2/71

In: 2155.342 $\pm$ 338.042 χ^2 /NDF:53.2/57

Out: 1688.600 $\pm$ 337.386 χ^2 /NDF:73.0/61

All: 1921.518 $\pm$ 238.799 χ^2 /NDF: 127.2/119

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2125.431 $\pm$ 0.341 χ^2 /NDF: 797851.8/34

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF: 139299.8/24

Right Out: 2140.367 $\pm$ 0.349 χ^2 /NDF: 954399.6/36

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF: 116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

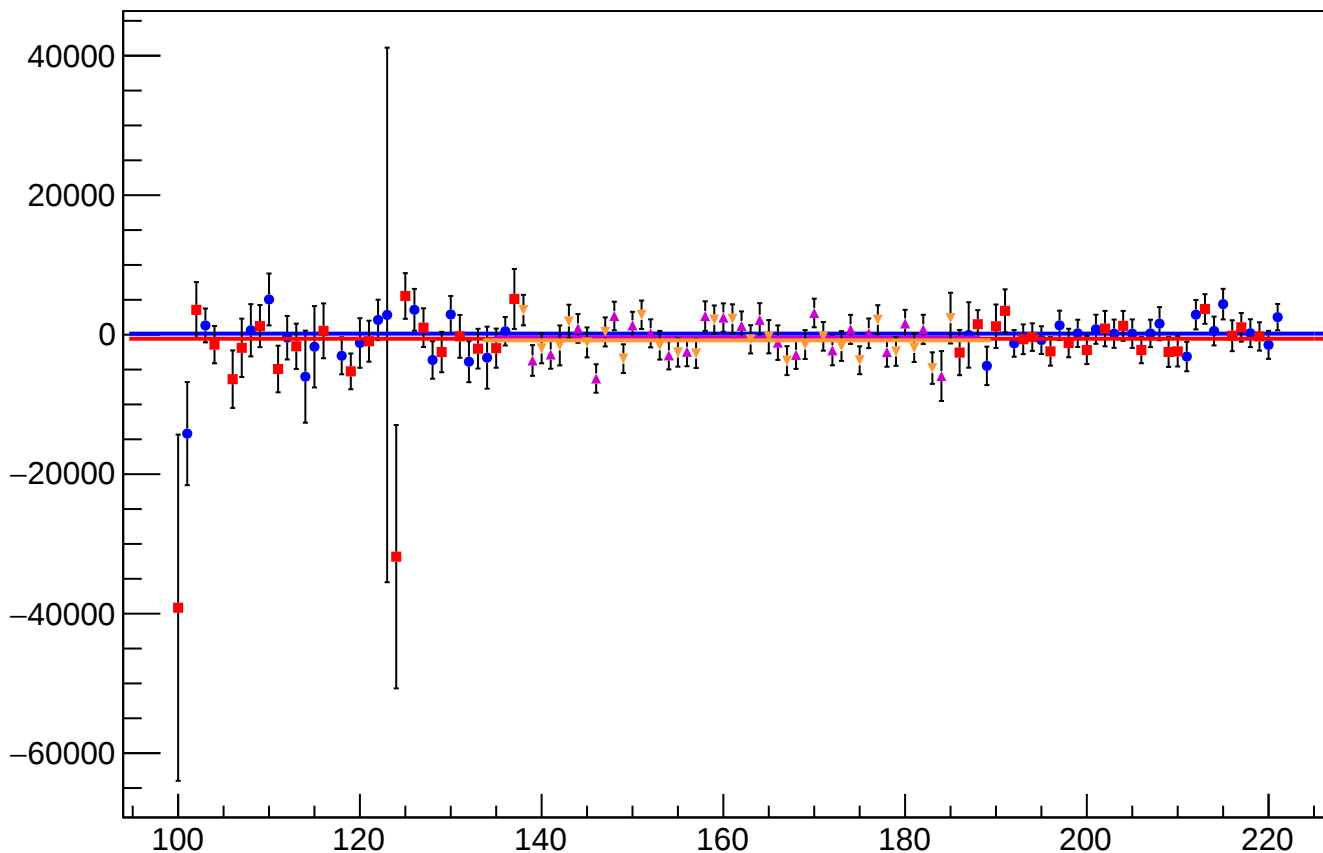
Right: 2132.733 $\pm$ 0.244 χ^2 /NDF: 1753189.6/71

In: 2047.496 $\pm$ 0.239 χ^2 /NDF: 1017056.0/57

Out: 2054.567 $\pm$ 0.239 χ^2 /NDF: 1207623.1/61

All: 2051.038 $\pm$ 0.169 χ^2 /NDF: 2225117.6/117

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 152.154+/-421.231 χ^2/NDF : 30.0/34

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -578.239+/-428.760 χ^2/NDF : 33.5/36

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

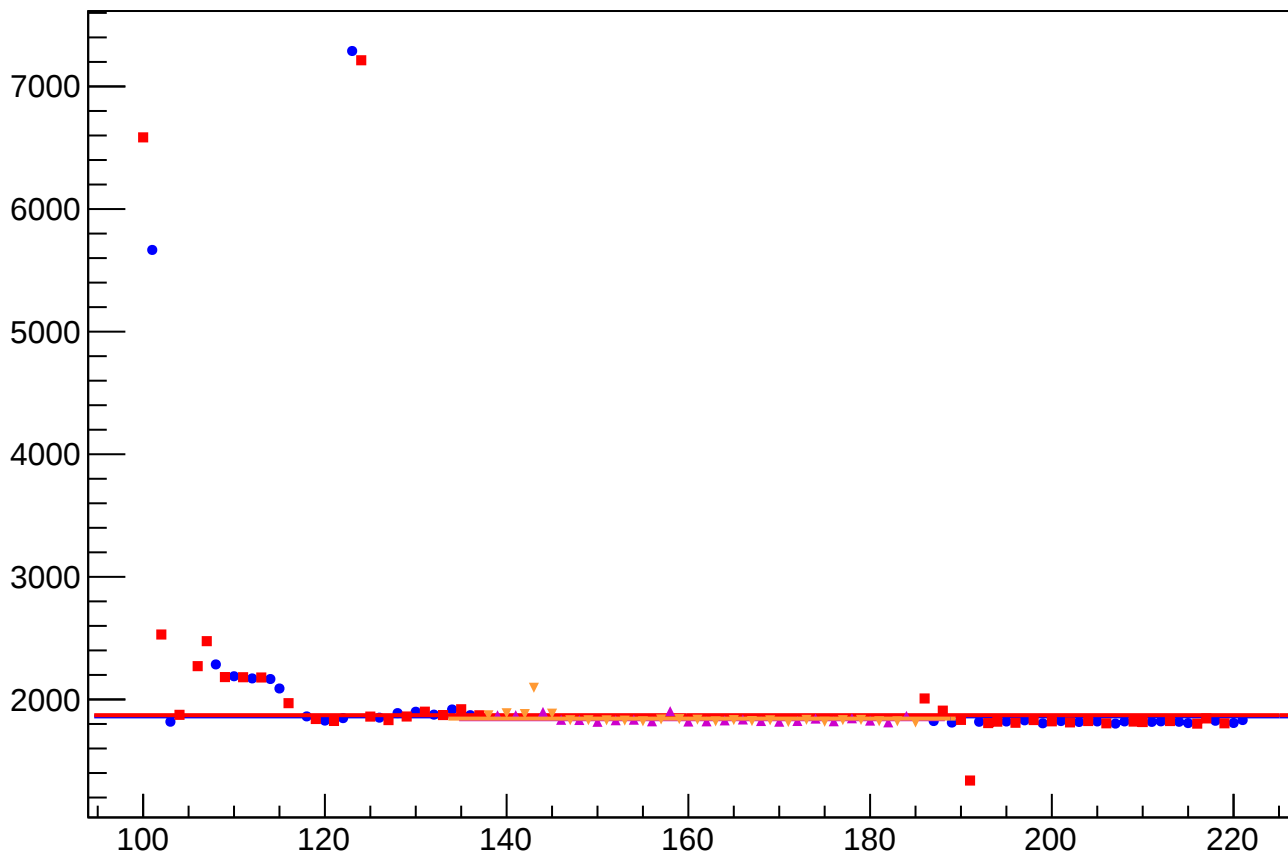
Right: -206.573+/-300.482 χ^2/NDF : 65.0/71

In: -110.543+/-304.685 χ^2/NDF : 65.2/57

Out: -692.924+/-303.723 χ^2/NDF : 61.6/61

All: -402.654+/-215.104 χ^2/NDF : 128.6/119

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1861.710+/-0.298 χ^2/NDF : 656069.3/34

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1871.800+/-0.303 χ^2/NDF : 490439.9/36

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

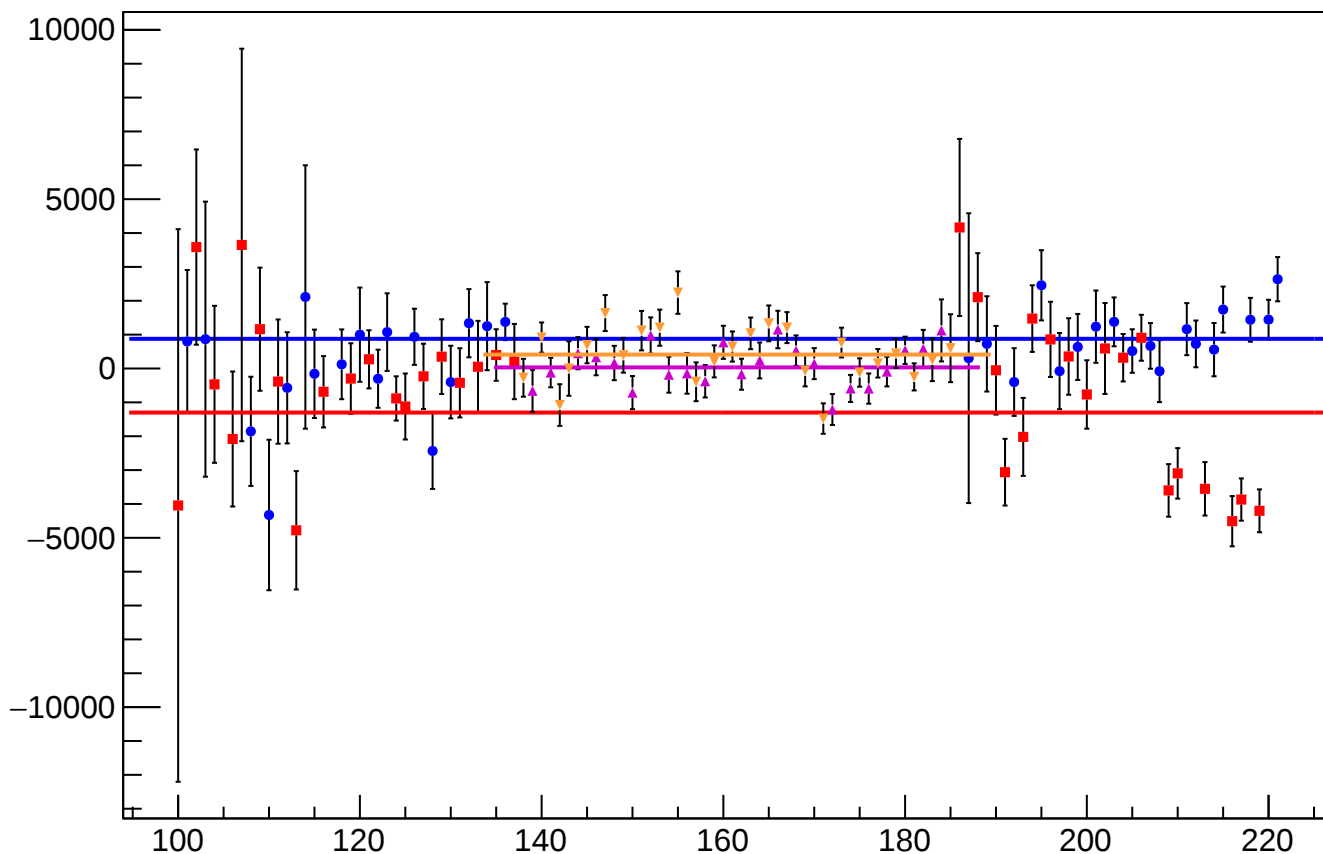
Right: 1866.666+/-0.212 χ^2/NDF : 1147072.8/71

In: 1850.696+/-0.215 χ^2/NDF : 665271.9/57

Out: 1857.824+/-0.215 χ^2/NDF : 521572.9/61

All: 1854.271+/-0.152 χ^2/NDF : 1187393.7/11

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 876.389 ± 154.664 χ^2/NDF : 41.4/34

Left Out: 411.072 ± 100.456 χ^2/NDF : 61.2/24

Right Out: -1301.214 ± 163.370 χ^2/NDF : 154.4/36

Left In: 32.456 ± 102.403 χ^2/NDF : 32.7/22

Left: 225.398 ± 71.712 χ^2/NDF : 100.9/47

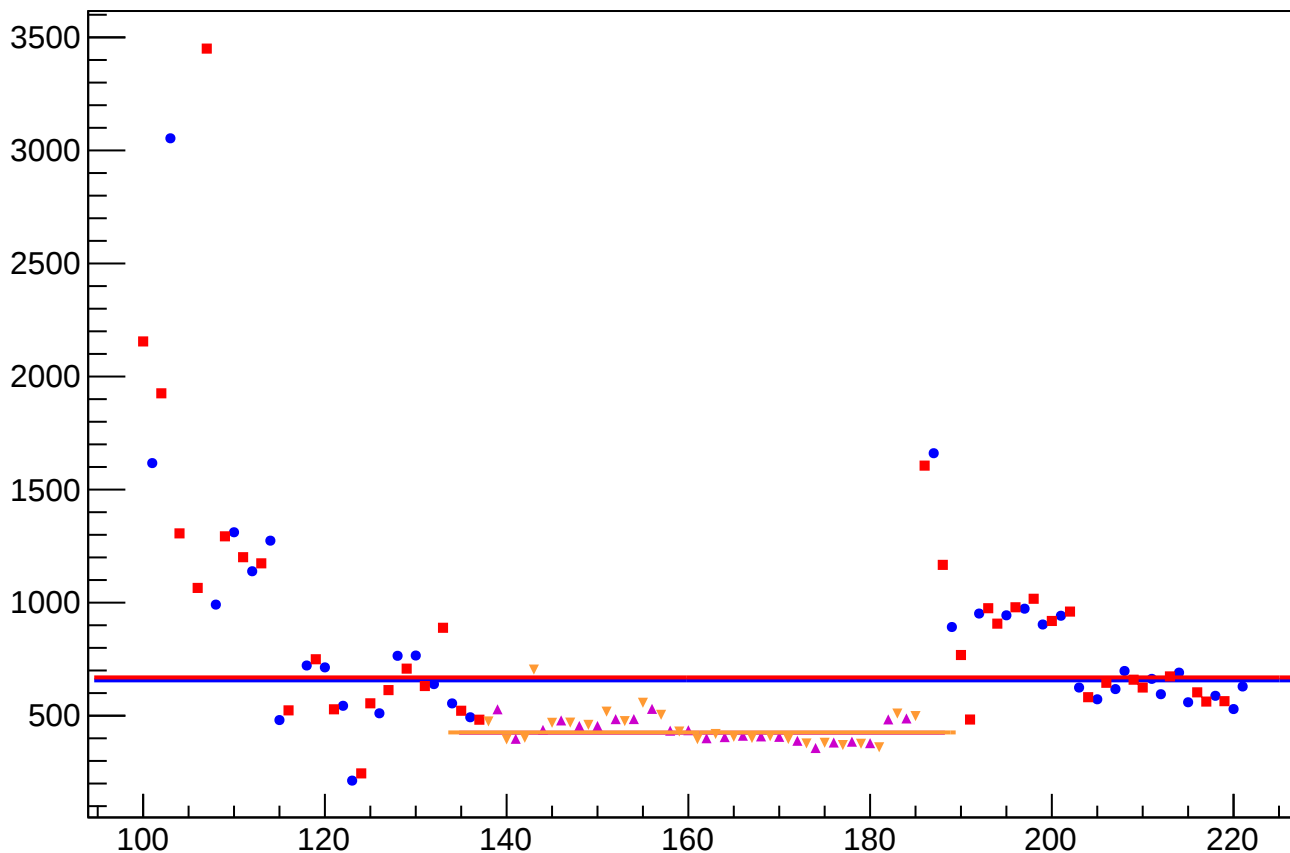
Right: -152.846 ± 112.316 χ^2/NDF : 289.5/71

In: 289.663 ± 85.384 χ^2/NDF : 94.8/57

Out: -58.715 ± 85.573 χ^2/NDF : 295.3/61

All: 115.858 ± 60.442 χ^2/NDF : 398.4/119

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.299+/-0.109 χ^2/NDF : 3428515.3/34

Left Out: 426.027+/-0.071 χ^2/NDF : 733072.9/24

Right Out: 669.358+/-0.116 χ^2/NDF : 4501878.3/36

Left In: 424.639+/-0.072 χ^2/NDF : 391611.2/22

Left: 425.346+/-0.051 χ^2/NDF : 1124871.5/47

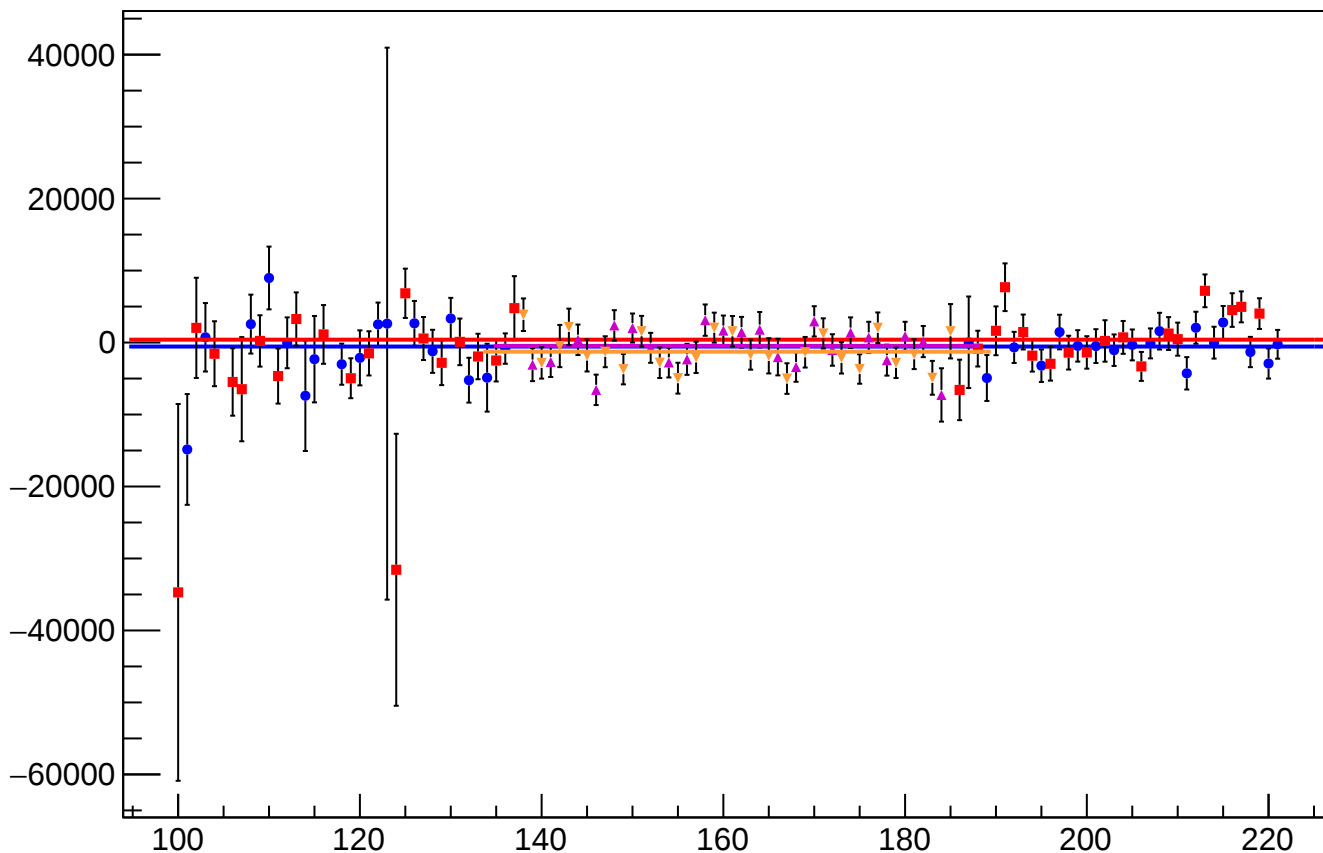
Right: 662.471+/-0.079 χ^2/NDF : 7937133.0/71

In: 495.242+/-0.060 χ^2/NDF : 6939593.6/57

Out: 492.788+/-0.061 χ^2/NDF : 8454513.3/61

All: 494.018+/-0.043 χ^2/NDF : 15394931.0/113

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -555.242+/-460.646 χ^2/NDF : 30.3/34

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: 399.528+/-476.503 χ^2/NDF : 56.4/36

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

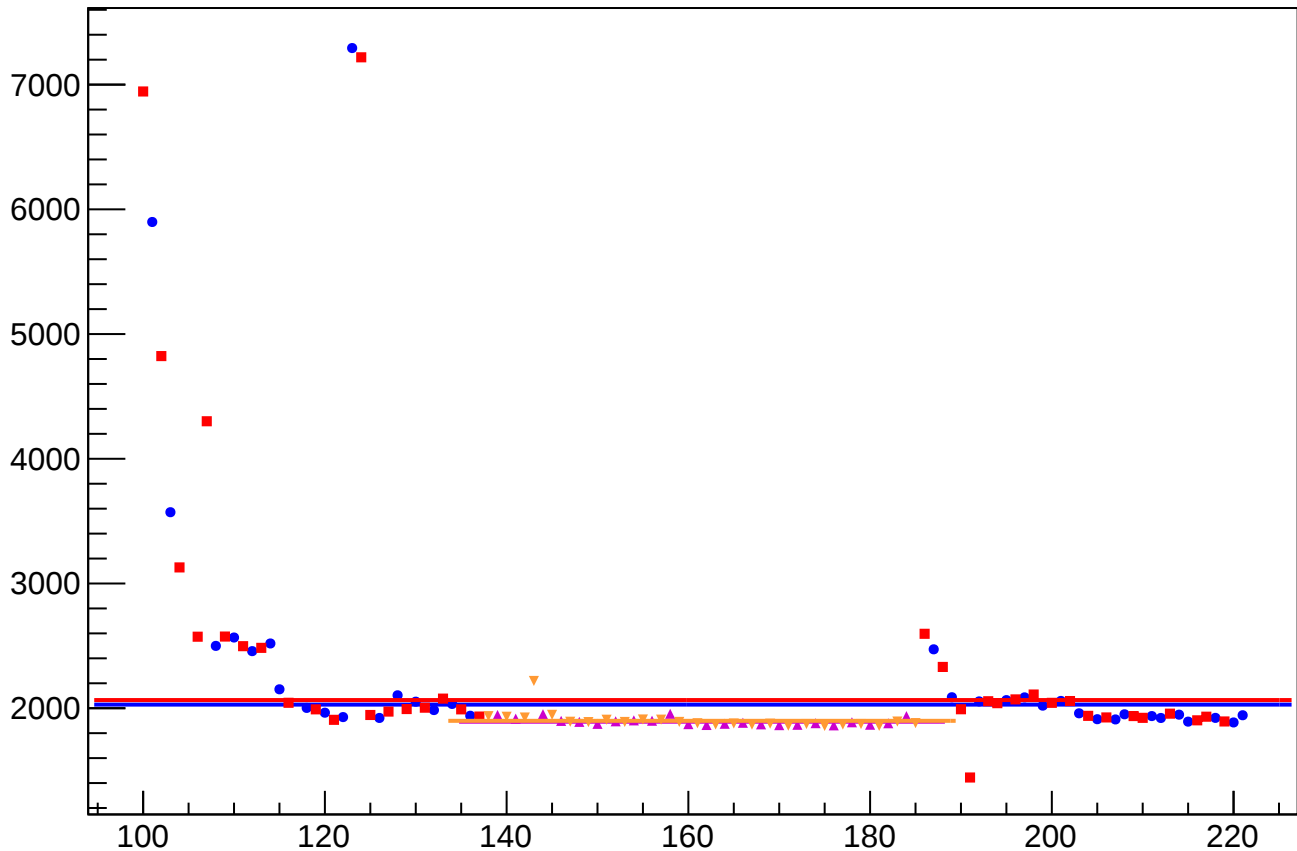
Right: -94.008+/-331.190 χ^2/NDF : 88.8/71

In: -508.242+/-323.331 χ^2/NDF :62.9/57

Out: -494.442+/-324.532 χ^2/NDF :93.8/61

All: -501.368+/-229.053 χ^2/NDF : 156.7/119

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2029.030+/-0.326 χ^2/NDF : 924957.2/34

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2065.447+/-0.337 χ^2/NDF : 1157705.9/36

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

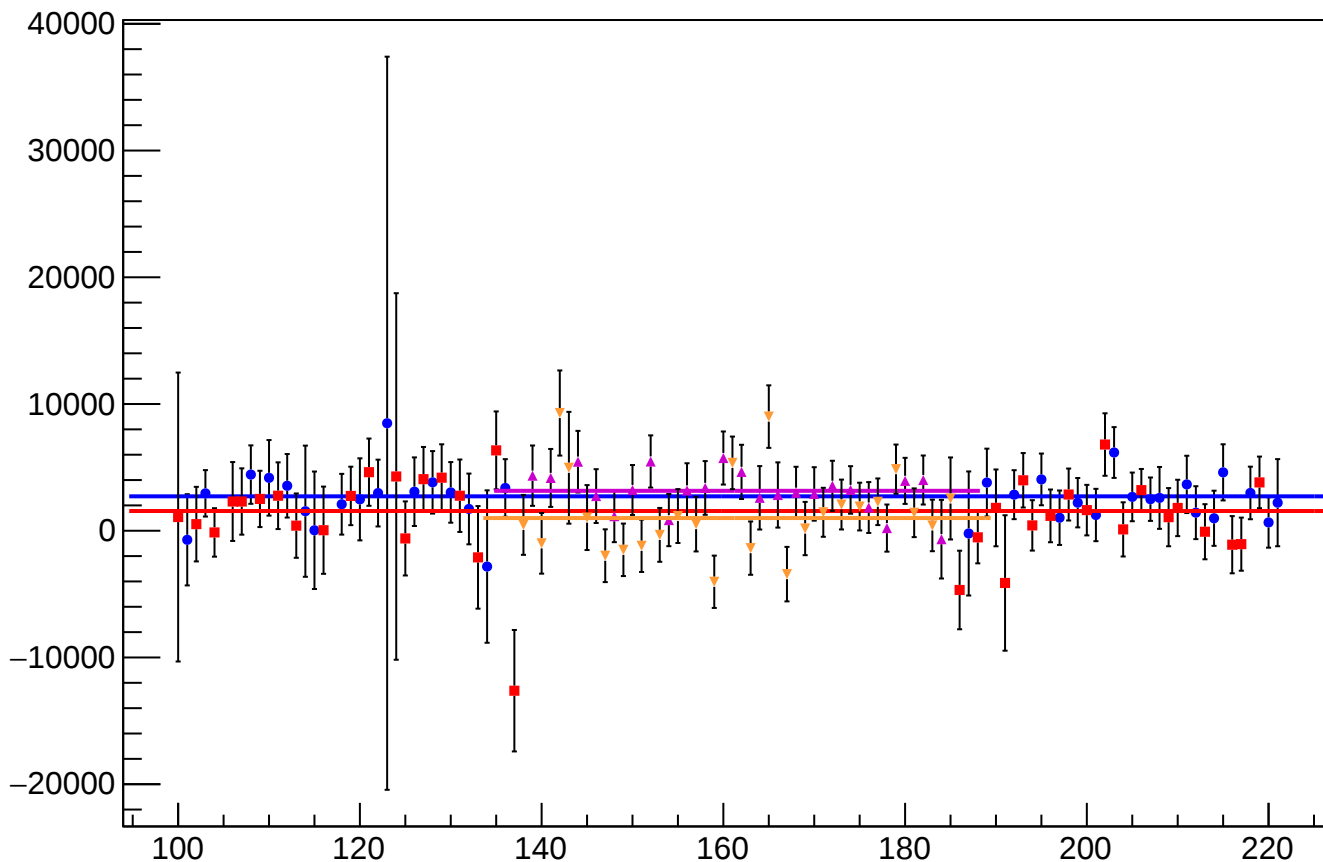
Right: 2046.623+/-0.234 χ^2/NDF : 2088701.5/71

In: 1959.356+/-0.229 χ^2/NDF : 1022568.2/57

Out: 1976.187+/-0.229 χ^2/NDF : 1327284.6/61

All: 1967.740+/-0.162 χ^2/NDF : 2352552.7/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2715.851 $\pm$ 408.162 χ^2 /NDF: 11.8/34

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF: 44.6/24

Right Out: 1557.177 $\pm$ 408.156 χ^2 /NDF: 37.2/36

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF: 11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

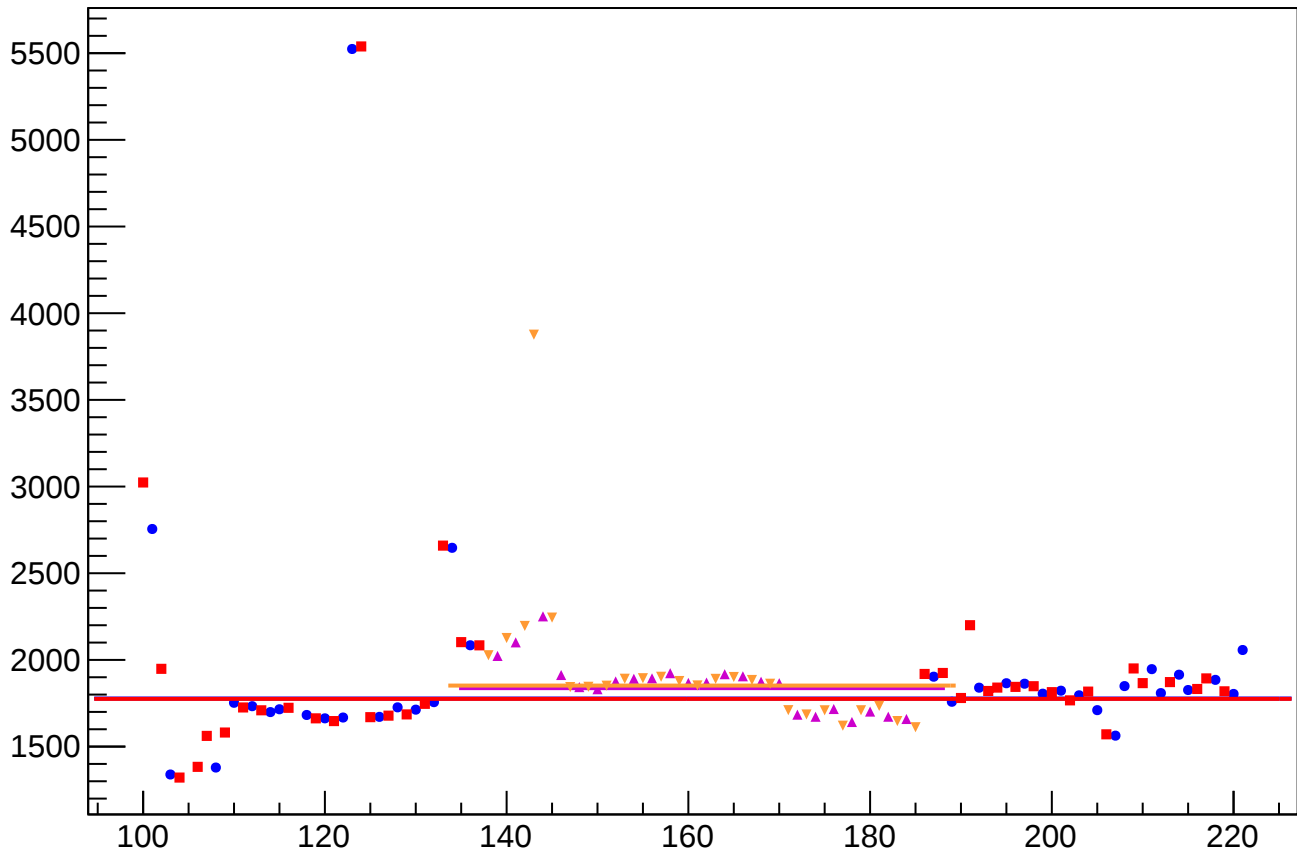
Right: 2136.505 $\pm$ 288.612 χ^2 /NDF: 53.0/71

In: 2916.292 $\pm$ 299.597 χ^2 /NDF: 24.2/57

Out: 1297.059 $\pm$ 297.727 χ^2 /NDF: 82.7/61

All: 2101.606 $\pm$ 211.183 χ^2 /NDF: 121.5/119

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1777.235 $\pm$ 0.289 χ^2 /NDF: 536902.7/34

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF:648954.2/24

Right Out: 1775.281 $\pm$ 0.289 χ^2 /NDF: 580333.4/36

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

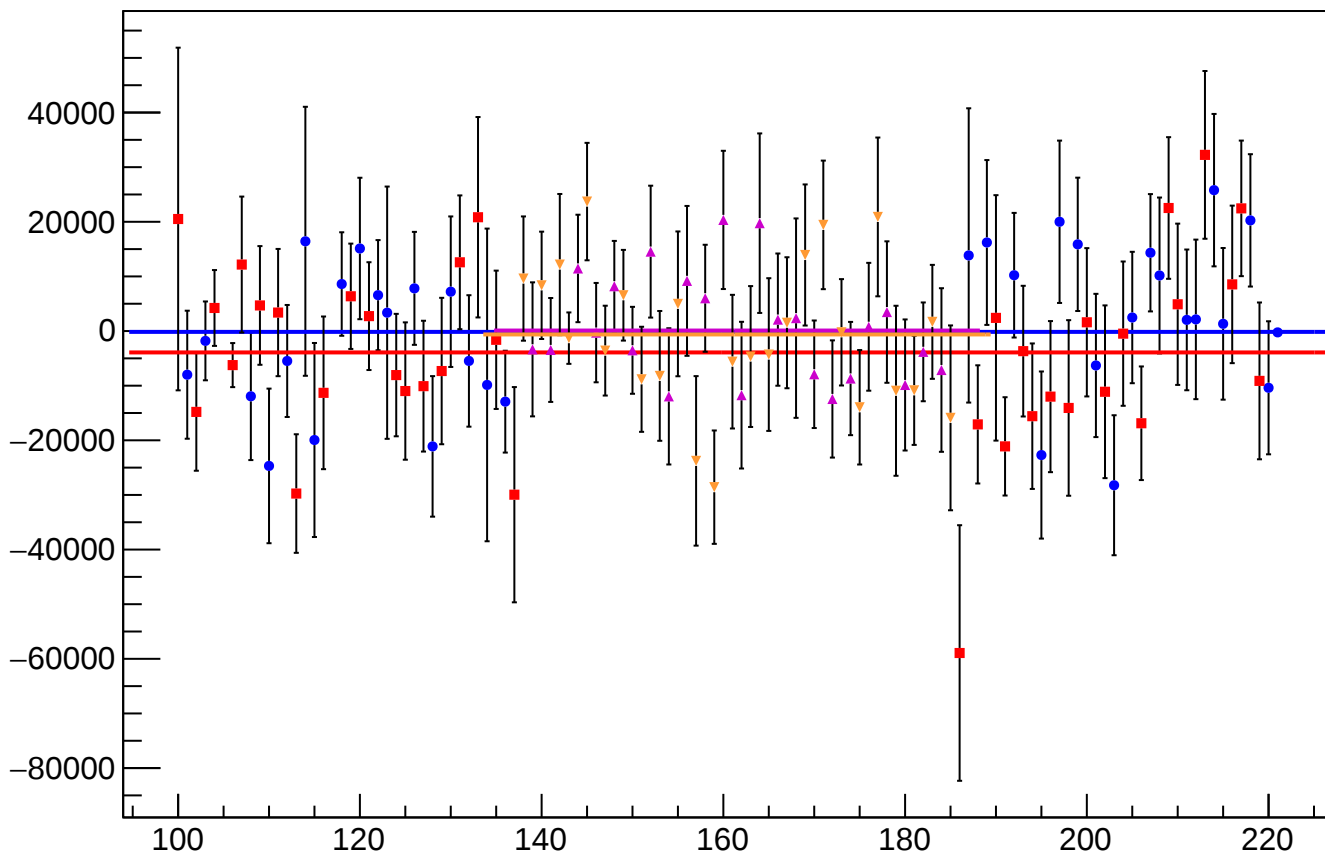
Right: 1776.258 $\pm$ 0.204 χ^2 /NDF: 1117259.0/71

In: 1804.869 $\pm$ 0.212 χ^2 /NDF:757294.0/57

Out: 1811.159 $\pm$ 0.211 χ^2 /NDF:1262315.3/61

All: 1808.034 $\pm$ 0.149 χ^2 /NDF: 2020052.8/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -151.620 ± 704.509 χ^2/NDF : 37.4/34

Left Out: -619.372 ± 2069.686 χ^2/NDF : 30.1/24

Right Out: -3914.218 ± 1838.366 χ^2/NDF : 49.5/36

Left In: 93.334 ± 2293.826 χ^2/NDF : 14.6/22

Left: -299.532 ± 1536.638 χ^2/NDF : 44.8/47

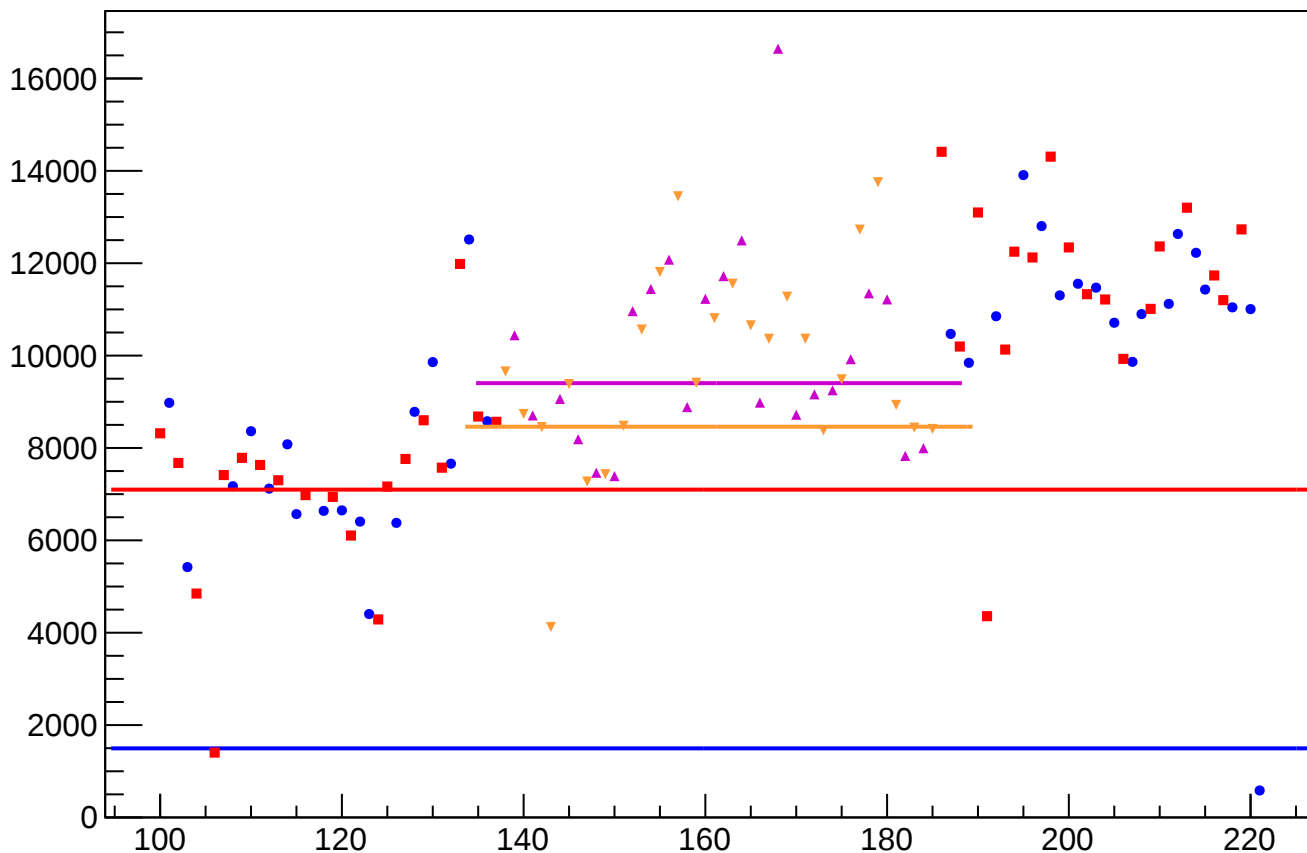
Right: -633.442 ± 657.856 χ^2/NDF : 90.6/71

In: -130.505 ± 673.461 χ^2/NDF : 52.1/57

Out: -2461.138 ± 1374.459 χ^2/NDF : 81.0/61

All: -581.722 ± 604.766 χ^2/NDF : 135.4/119

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1496.003 $\pm$ 0.498 χ^2 /NDF: 30004122.6/34

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF:3087200.5/24

Right Out: 7098.412 $\pm$ 1.300 χ^2 /NDF: 8638044.4/36

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

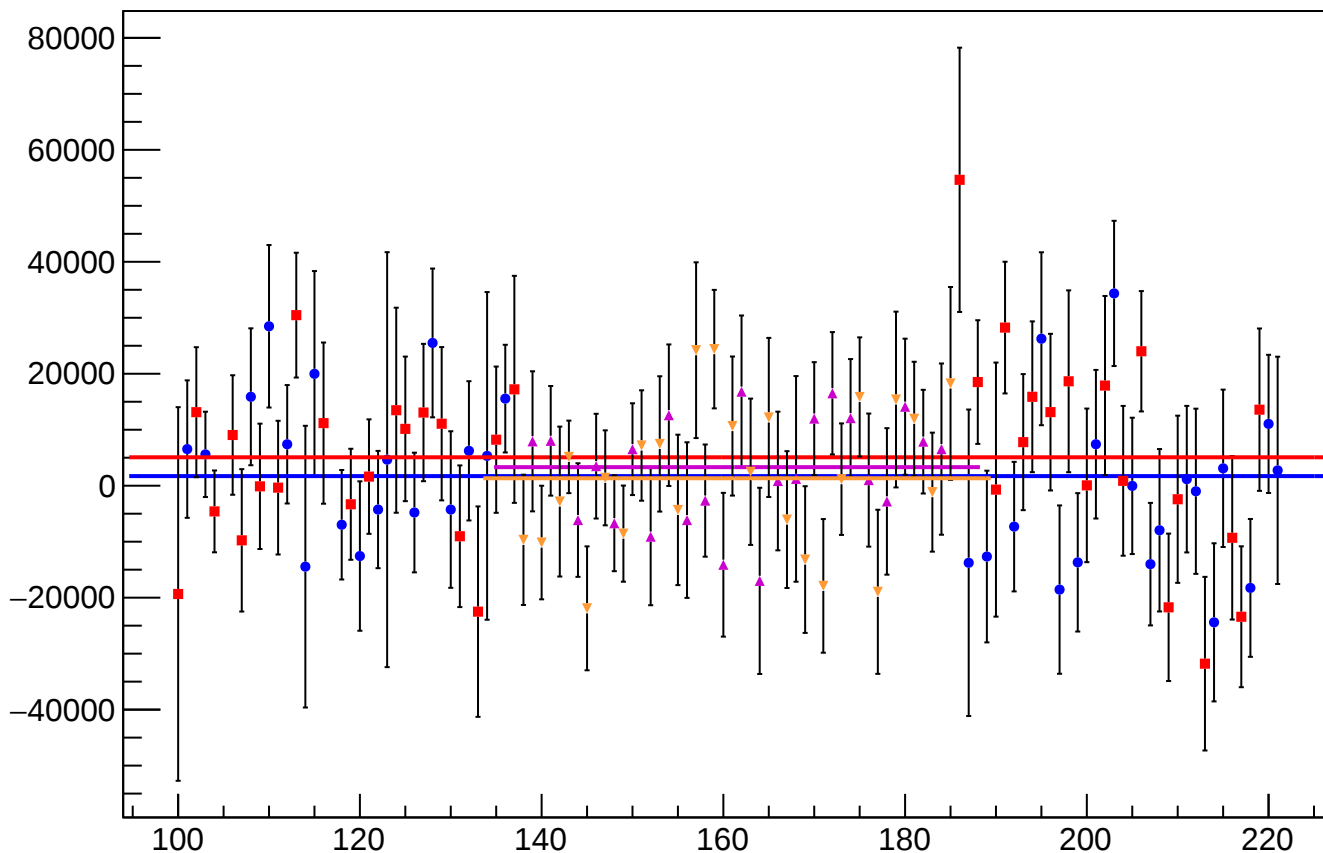
Right: 2213.422 $\pm$ 0.465 χ^2 /NDF: 54838046.5/71

In: 2177.622 $\pm$ 0.476 χ^2 /NDF:52865610.9/57

Out: 7698.877 $\pm$ 0.972 χ^2 /NDF:12209067.4/61

All: 3246.550 $\pm$ 0.428 χ^2 /NDF: 91099719.4/121

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1715.509 $\pm$ 2190.525 χ^2 /NDF: 38.5/34

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24

Right Out: 5076.924 $\pm$ 2122.961 χ^2 /NDF: 47.7/36

Left In: 3316.909 $\pm$ 2344.543 χ^2 /NDF:13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2 /NDF: 42.2/47

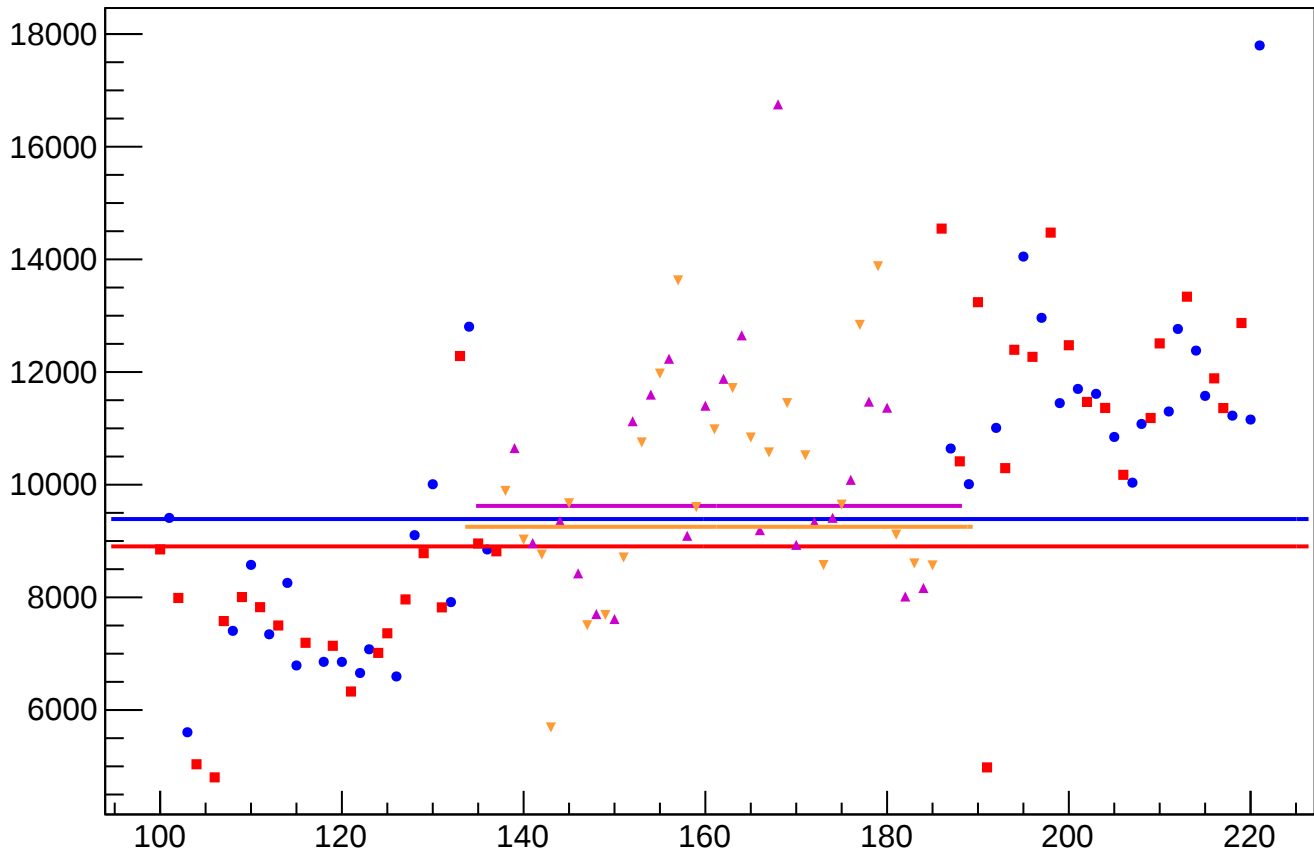
Right: 3448.854 $\pm$ 1524.486 χ^2 /NDF: 87.4/71

In: 2461.886 $\pm$ 1600.616 χ^2 /NDF:52.5/57

Out: 3283.209 $\pm$ 1532.246 χ^2 /NDF:77.2/61

All: 2890.463 $\pm$ 1106.843 χ^2 /NDF: 129.9/119

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9390.101 $\pm$ 1.549

χ^2/NDF : 2517283.2/34

Left: 9427.467 $\pm$ 1.138 χ^2/NDF : 2694036.4/47

Right: 9139.713 $\pm$ 1.078 χ^2/NDF : 5768622.9/71

Left Out: 9252.712 $\pm$ 1.565

χ^2/NDF : 1597668.9/24

In: 9498.874 $\pm$ 1.132 χ^2/NDF : 3597788.7/57

Right Out: 8904.569 $\pm$ 1.501

χ^2/NDF : 3200666.8/36

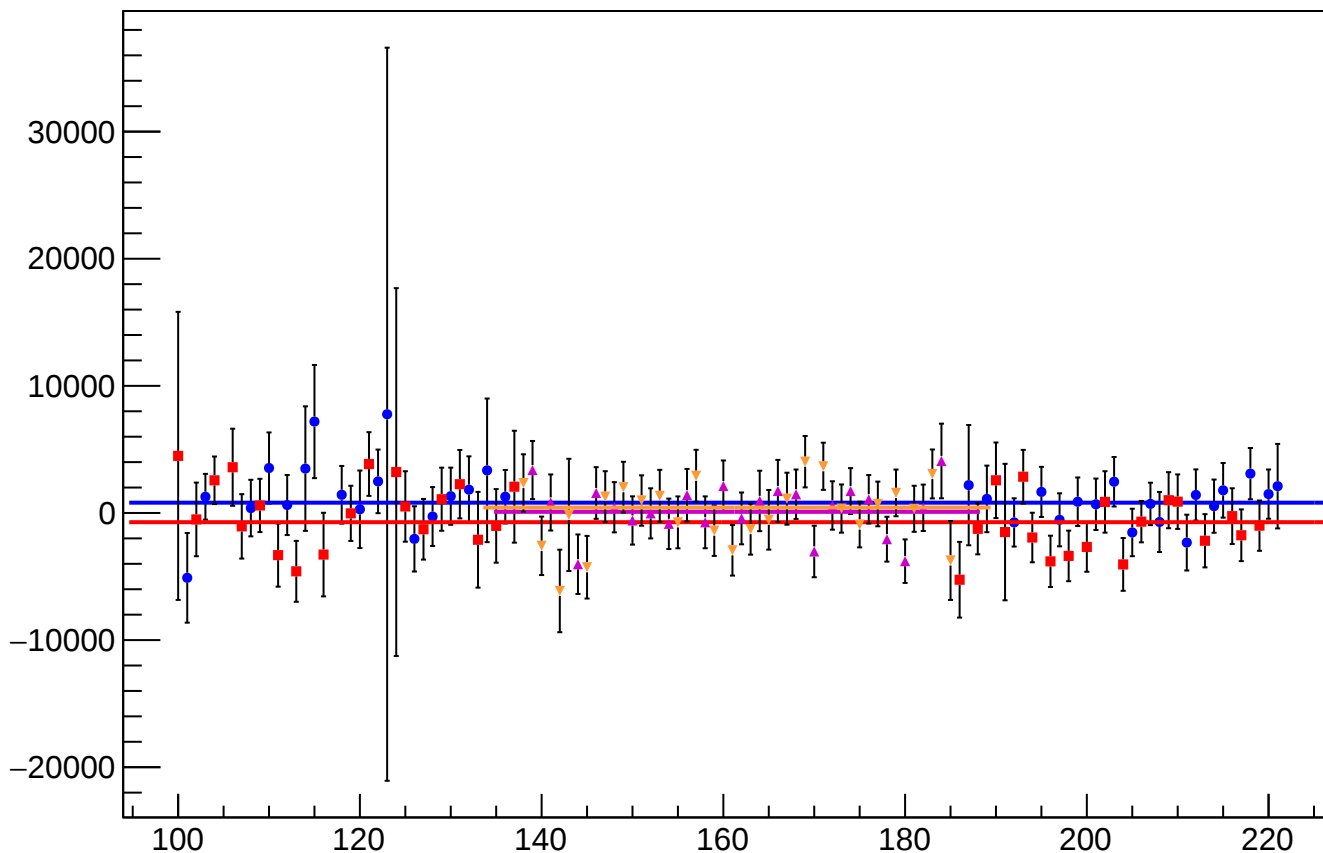
Out: 9071.341 $\pm$ 1.083 χ^2/NDF : 4824105.2/61

Left In: 9623.485 $\pm$ 1.658

χ^2/NDF : 1069924.0/22

All: 9275.773 $\pm$ 0.783 χ^2/NDF : 8496355.6/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 810.227 ± 393.535 $\chi^2/\text{NDF}: 16.7/34$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -724.905 ± 393.647 $\chi^2/\text{NDF}: 33.1/36$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

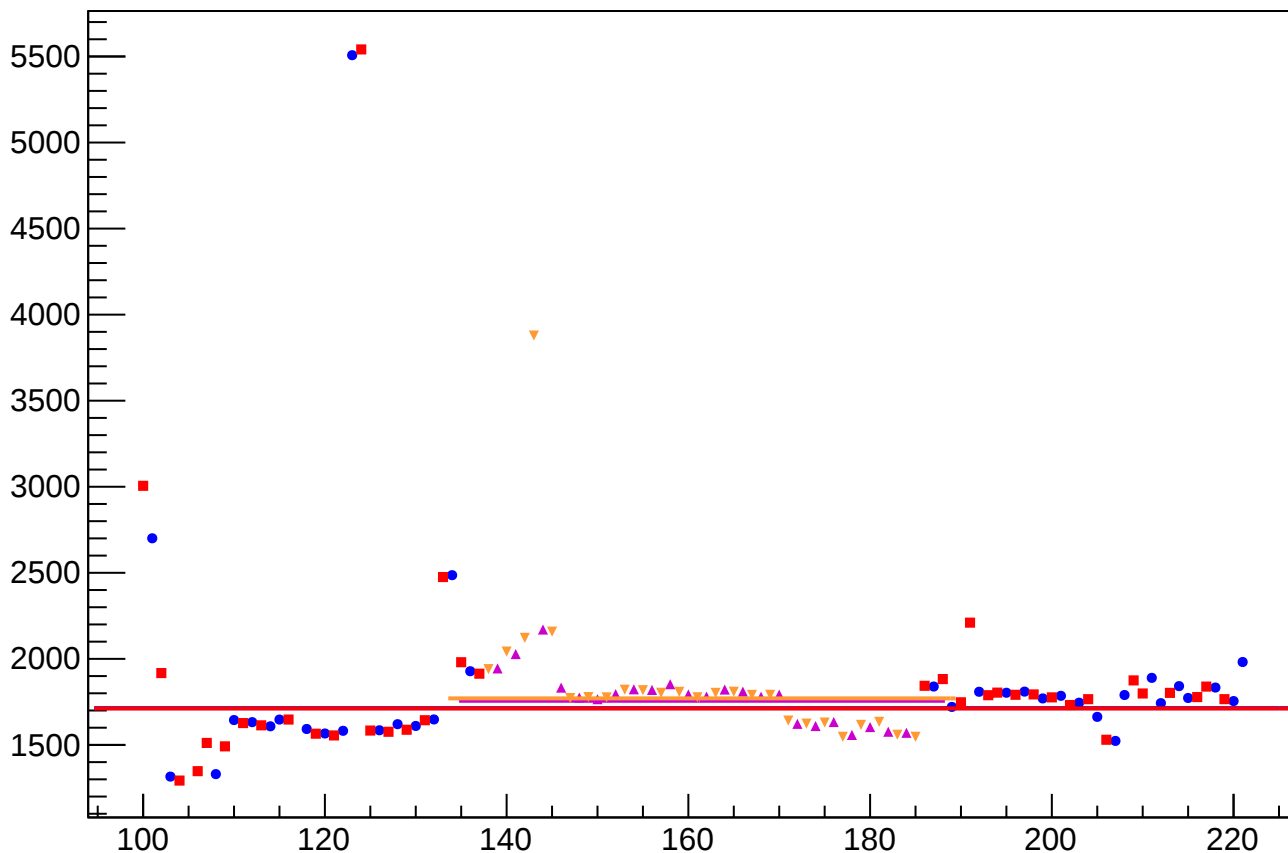
Right: 42.878 ± 278.311 $\chi^2/\text{NDF}: 57.5/71$

In: 474.428 ± 287.795 $\chi^2/\text{NDF}: 39.3/57$

Out: -180.098 ± 286.049 $\chi^2/\text{NDF}: 65.9/61$

All: 145.173 ± 202.882 $\chi^2/\text{NDF}: 107.7/119$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1713.444+/-0.278 χ^2/NDF : 533265.7/34

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1712.019+/-0.278 χ^2/NDF : 591397.0/36

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

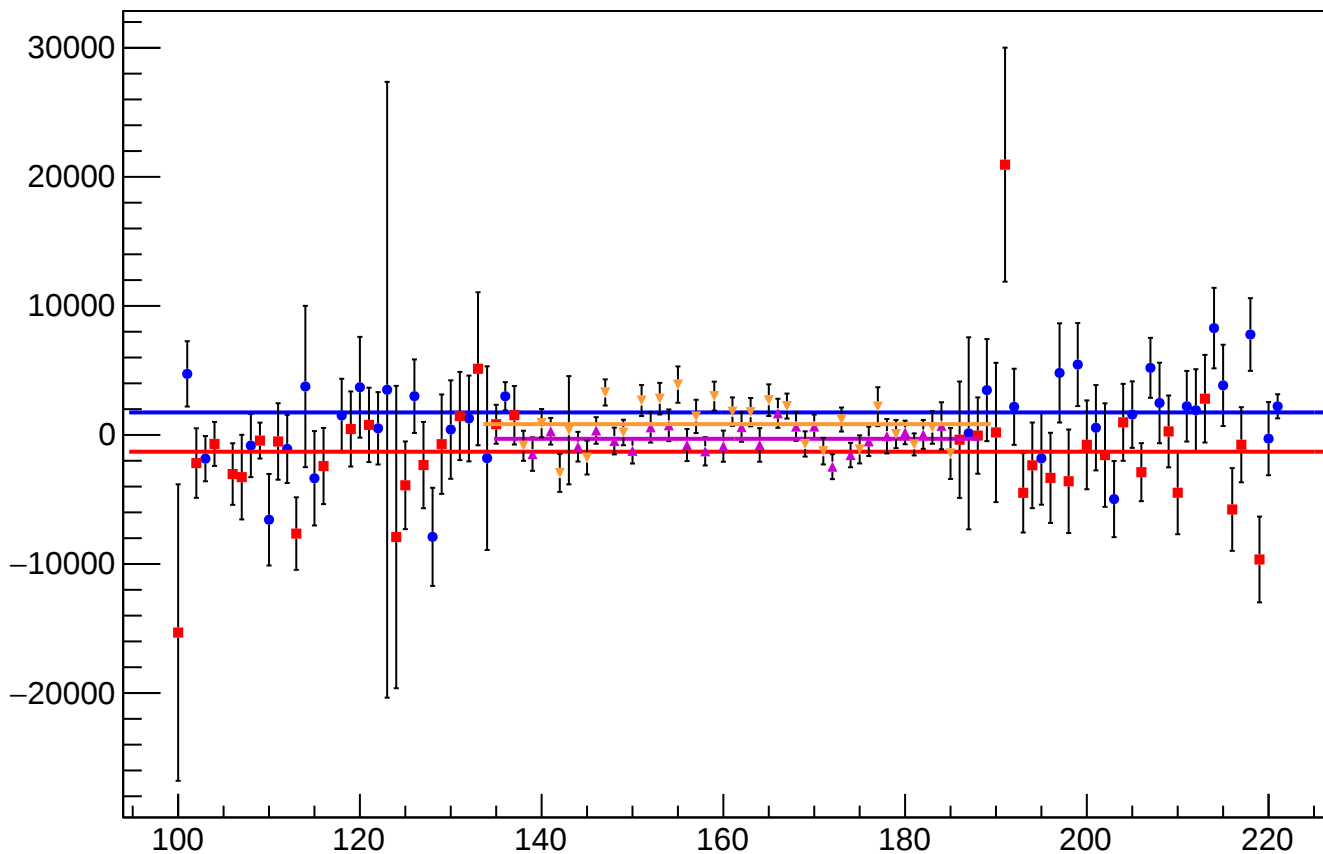
Right: 1712.732+/-0.197 χ^2/NDF : 1124675.8/71

In: 1733.531+/-0.204 χ^2/NDF : 767543.8/57

Out: 1739.565+/-0.202 χ^2/NDF : 1311684.5/61

All: 1736.566+/-0.143 χ^2/NDF : 2079670.6/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1746.156+/-429.729 χ^2/NDF : 45.2/34

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1298.694+/-471.734 χ^2/NDF : 35.9/36

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

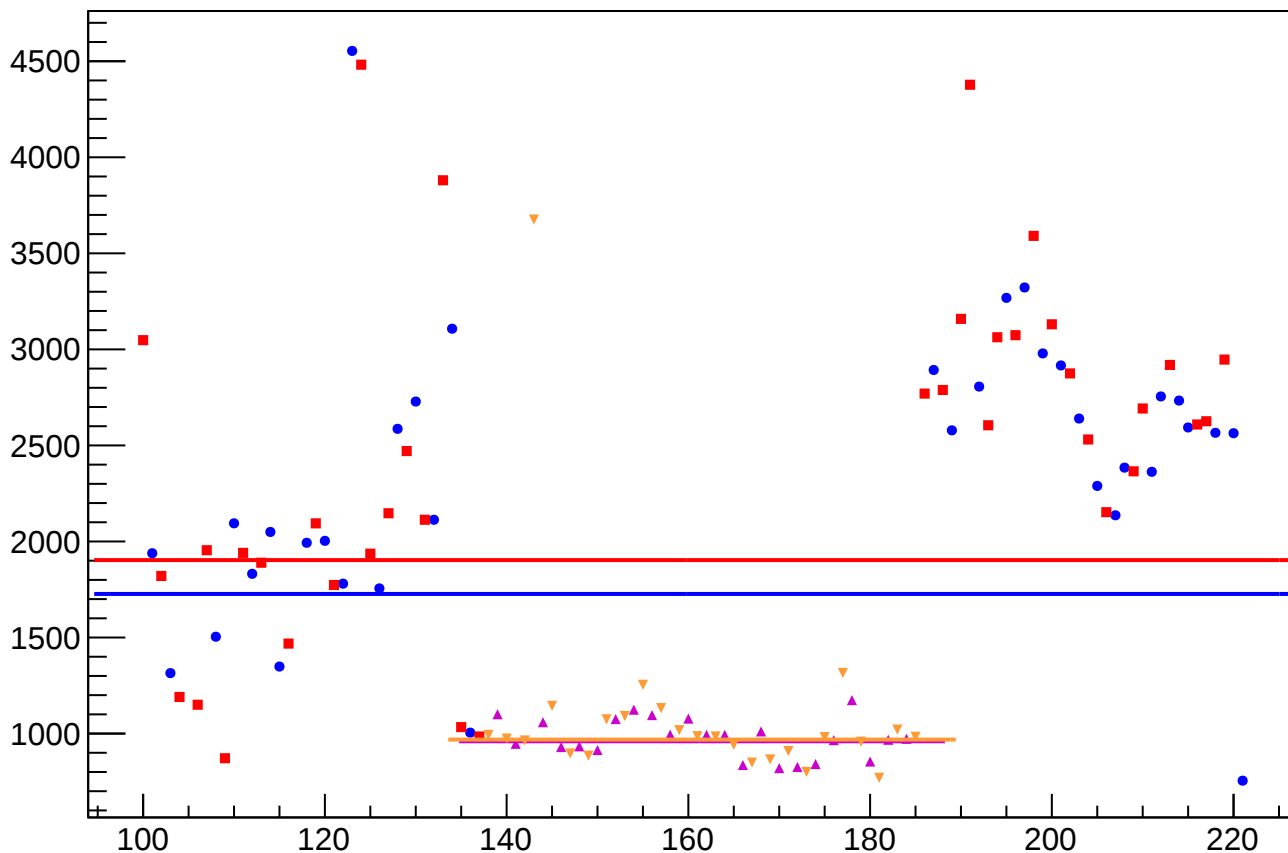
Right: 365.302+/-317.679 χ^2/NDF : 103.8/71

In: 160.866+/-203.739 χ^2/NDF : 81.1/57

Out: 427.367+/-207.074 χ^2/NDF : 106.9/61

All: 291.954+/-145.230 χ^2/NDF : 188.8/119

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1726.852 $\pm$ 0.304 χ^2 /NDF: 6783675.5/34

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1903.057 $\pm$ 0.334 χ^2 /NDF: 5796831.4/36

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

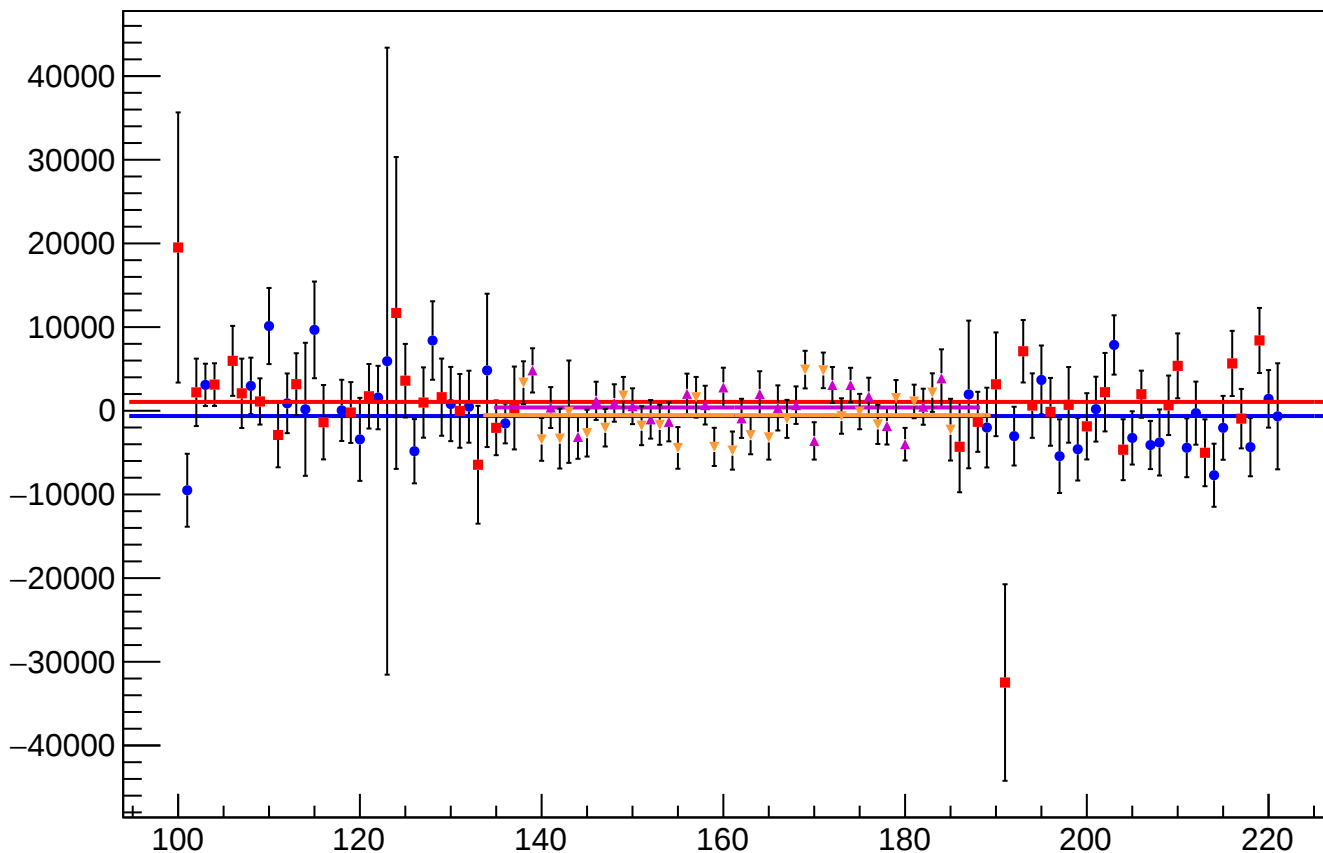
Right: 1806.762 $\pm$ 0.225 χ^2 /NDF: 12733003.6/71

In: 1132.222 $\pm$ 0.144 χ^2 /NDF: 12094673.7/57

Out: 1148.750 $\pm$ 0.146 χ^2 /NDF: 13524717.4/61

All: 1140.352 $\pm$ 0.103 χ^2 /NDF: 25625864.9/122

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -628.829 ± 660.475 $\chi^2/\text{NDF}: 41.6/34$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 1059.604 ± 661.247 $\chi^2/\text{NDF}: 32.5/36$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

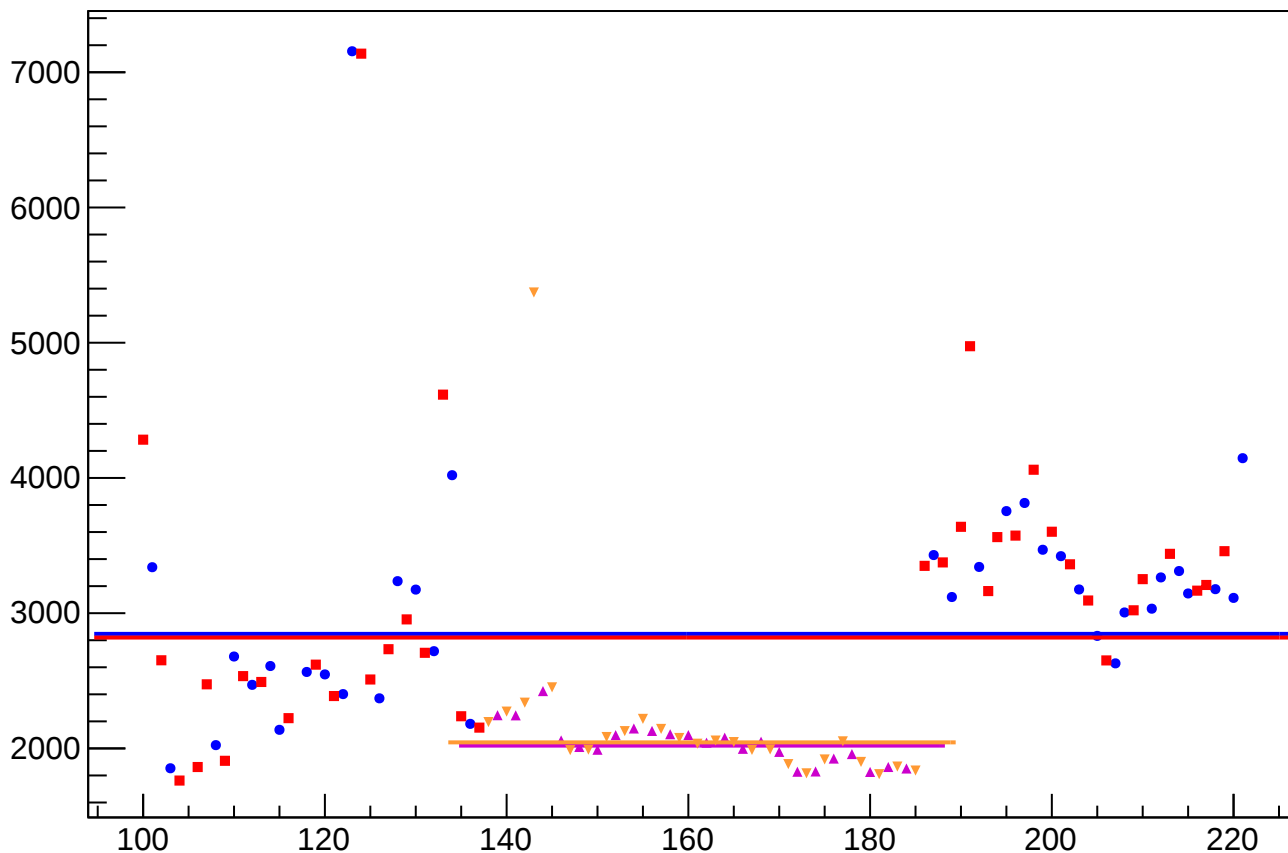
Right: 214.402 ± 467.299 $\chi^2/\text{NDF}: 77.4/71$

In: 37.842 ± 390.947 $\chi^2/\text{NDF}: 65.0/57$

Out: 28.809 ± 389.233 $\chi^2/\text{NDF}: 70.3/61$

All: 33.305 ± 275.833 $\chi^2/\text{NDF}: 135.3/119$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2846.991 $\pm$ 0.467 χ^2 /NDF: 1395761.2/34

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2819.832 $\pm$ 0.468 χ^2 /NDF: 1921312.8/36

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

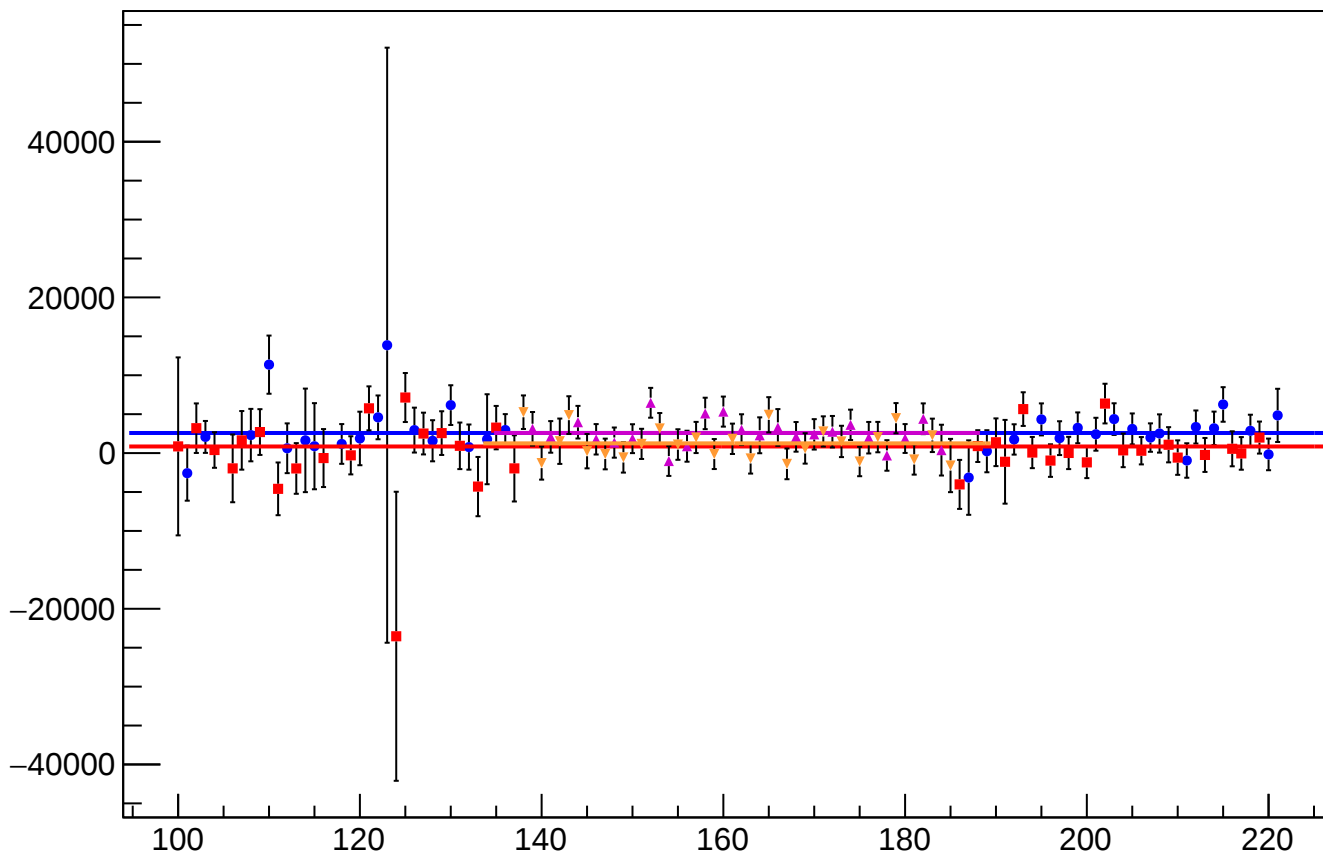
Right: 2833.427 $\pm$ 0.330 χ^2 /NDF: 3318762.9/71

In: 2310.272 $\pm$ 0.276 χ^2 /NDF: 3602298.4/57

Out: 2313.292 $\pm$ 0.275 χ^2 /NDF: 4505920.1/61

All: 2311.789 $\pm$ 0.195 χ^2 /NDF: 8108278.4/118

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2583.172 $\pm$ 424.792 χ^2 /NDF: 23.7/34

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 849.302 $\pm$ 429.103 χ^2 /NDF: 33.2/36

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

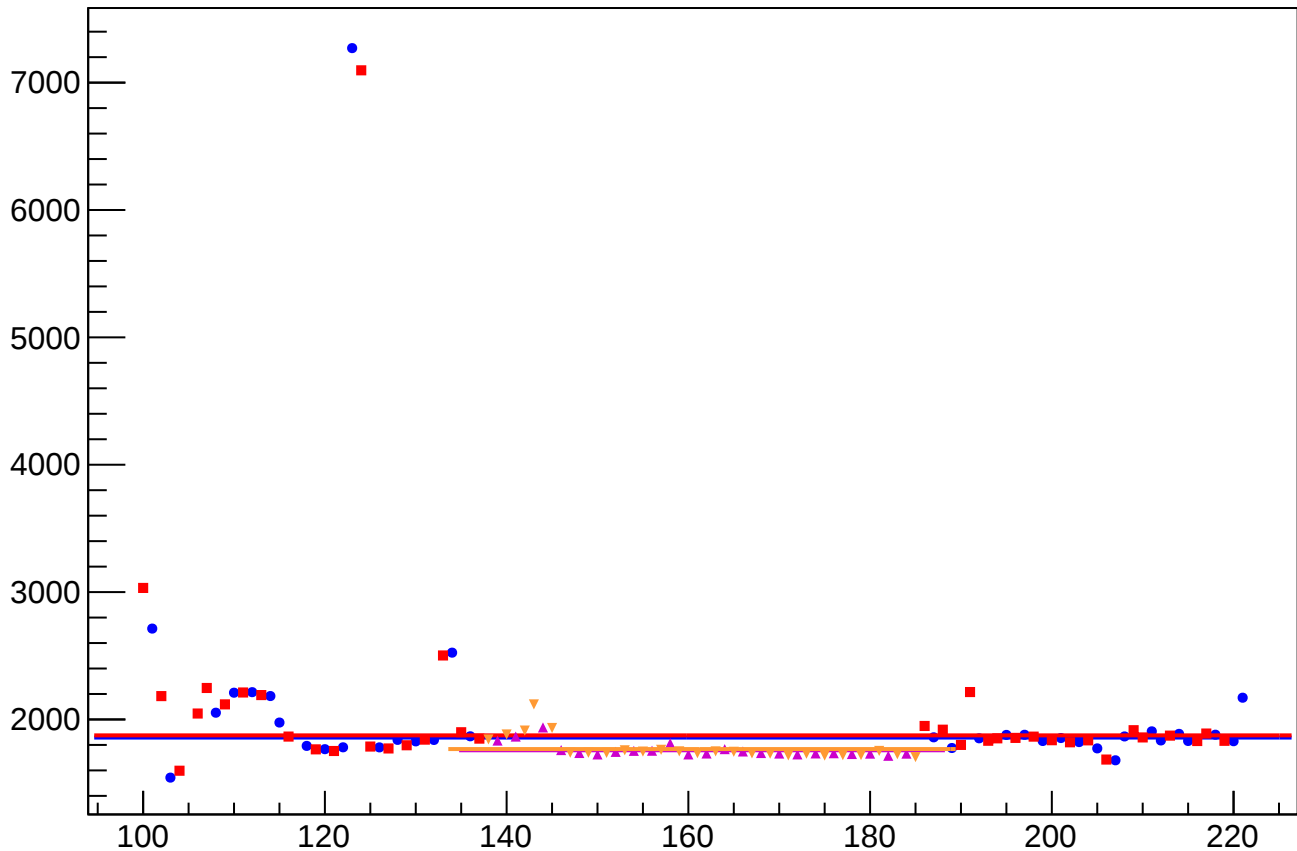
Right: 1724.989 $\pm$ 301.886 χ^2 /NDF: 65.2/71

In: 2585.069 $\pm$ 299.206 χ^2 /NDF:41.2/57

Out: 1057.516 $\pm$ 297.373 χ^2 /NDF:56.7/61

All: 1816.597 $\pm$ 210.920 χ^2 /NDF: 111.0/119

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1857.893+/-0.300 χ^2/NDF : 337302.6/34

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1875.087+/-0.303 χ^2/NDF : 411623.9/36

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

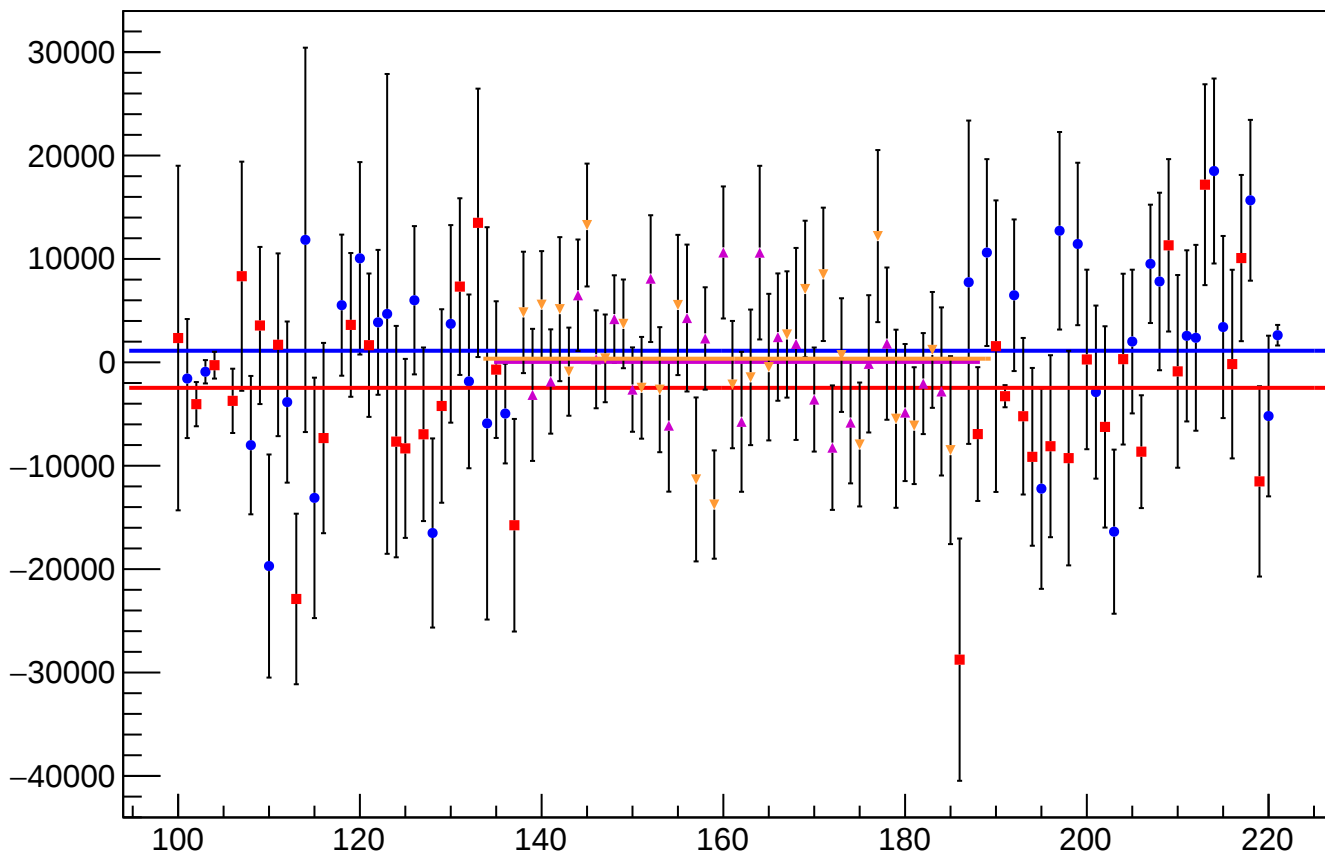
Right: 1866.408+/-0.213 χ^2/NDF : 750549.1/71

In: 1807.597+/-0.212 χ^2/NDF : 422751.7/57

Out: 1819.207+/-0.210 χ^2/NDF : 554658.9/61

All: 1813.439+/-0.149 χ^2/NDF : 978925.8/119

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: 1120.422 $\pm$ 660.239 χ^2 /NDF: 44.0/34

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2467.393 $\pm$ 668.539 χ^2 /NDF: 38.2/36

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

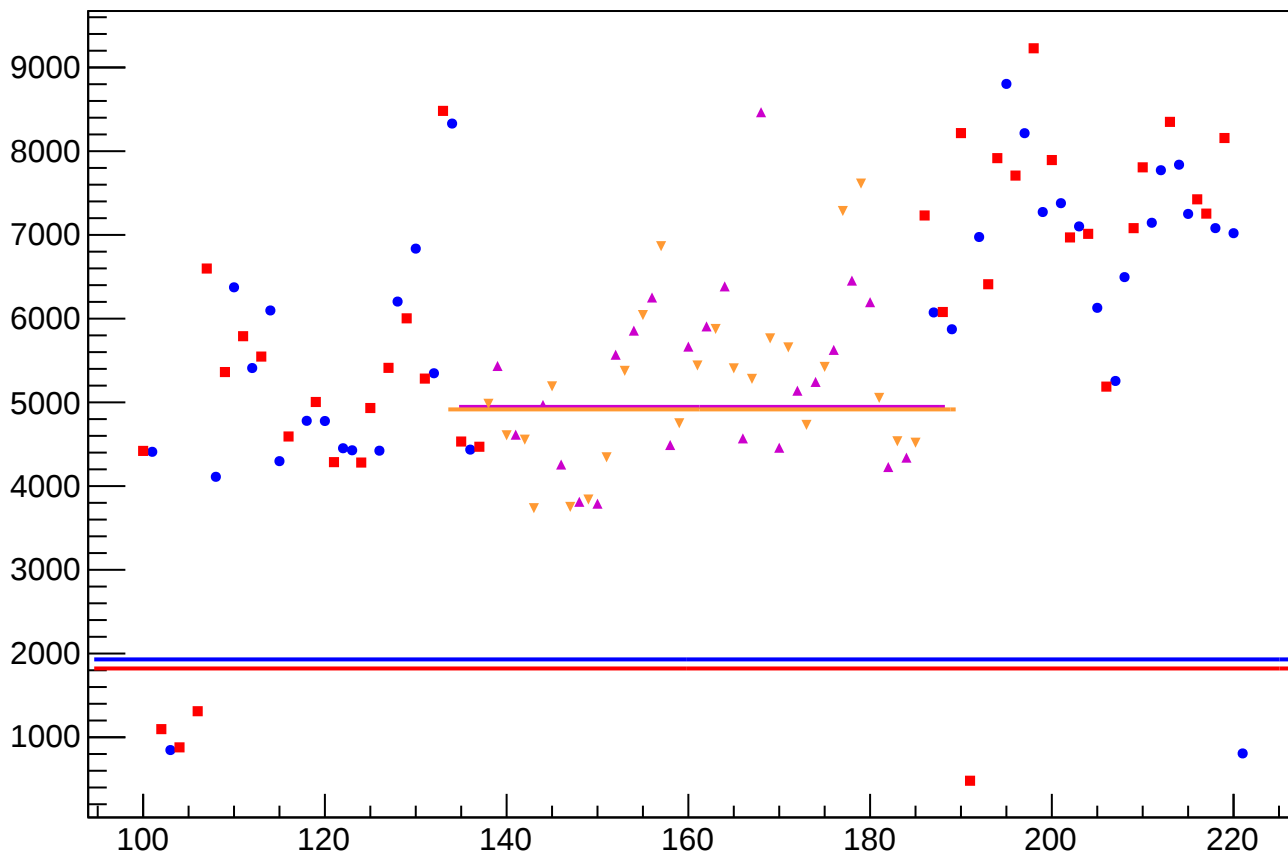
Right: -651.076 $\pm$ 469.766 χ^2 /NDF: 96.9/71

In: 871.892 $\pm$ 579.296 χ^2 /NDF:60.7/57

Out: -1773.676 $\pm$ 580.467 χ^2 /NDF:70.5/61

All: -448.220 $\pm$ 410.038 χ^2 /NDF: 141.5/119

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1929.999+/-0.467

χ^2/NDF : 21930263.4/34

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1876.491+/-0.332

χ^2/NDF : 44990973.2/71

Right Out: 1821.629+/-0.473

χ^2/NDF : 23034105.3/36

In: 2624.125+/-0.410

χ^2/NDF : 32722984.7/57

Out: 2583.180+/-0.410

χ^2/NDF : 34765172.5/61

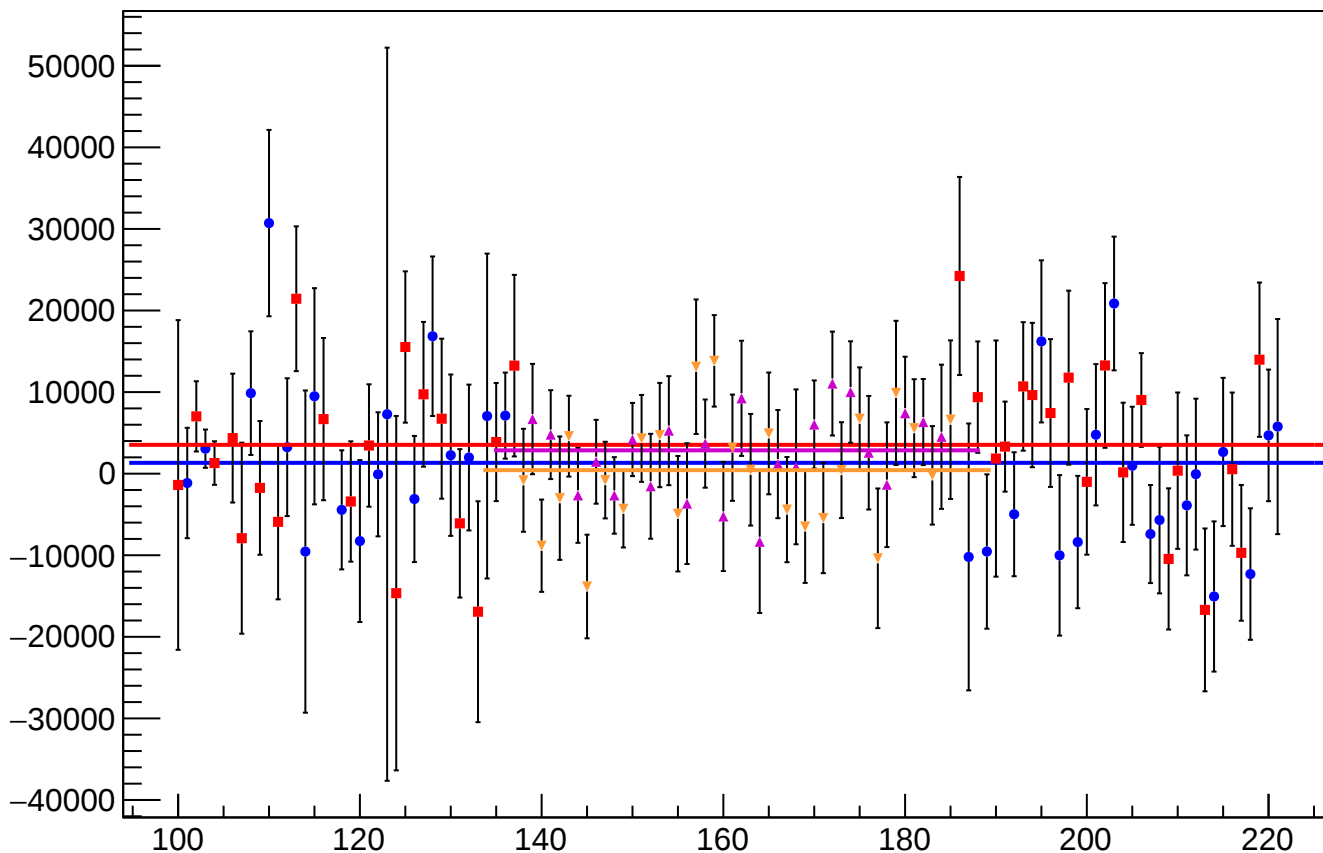
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2603.694+/-0.290

χ^2/NDF : 67493142.7/13

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1327.504+/-1262.848 χ^2/NDF : 37.9/34

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3534.352+/-1249.957 χ^2/NDF : 34.7/36

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

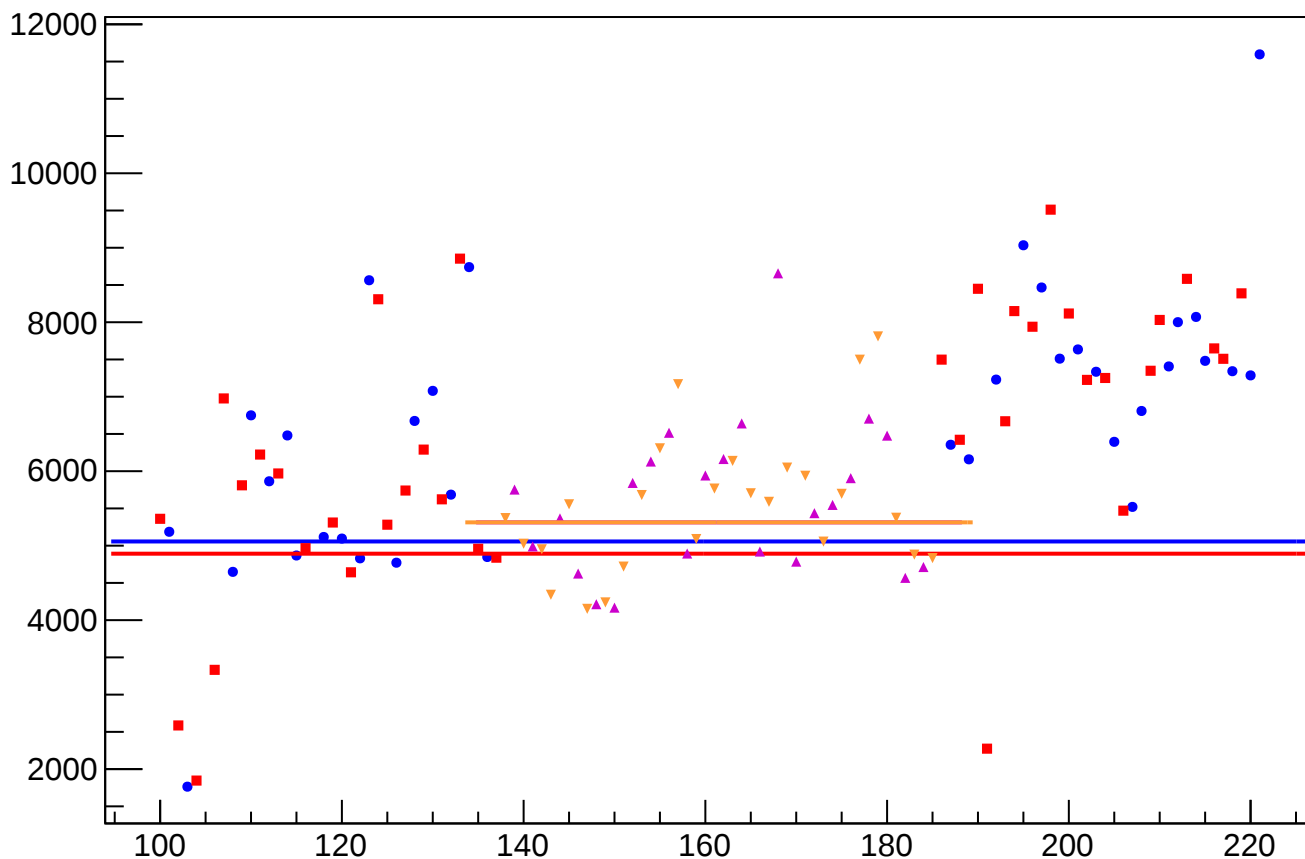
Right: 2442.249+/-888.376 χ^2/NDF : 74.1/71

In: 2076.196+/-903.211 χ^2/NDF : 51.4/57

Out: 1992.896+/-886.779 χ^2/NDF : 64.8/61

All: 2033.781+/-632.777 χ^2/NDF : 116.3/119

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 5056.435 $\pm$ 0.893 χ^2/NDF : 7209156.5/34

Left Out: 5313.008 $\pm$ 0.890 χ^2/NDF : 894369.8/24

Right Out: 4892.305 $\pm$ 0.880 χ^2/NDF : 7318674.4/36

Left In: 5312.861 $\pm$ 0.914 χ^2/NDF : 957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2/NDF : 1851770.5/47

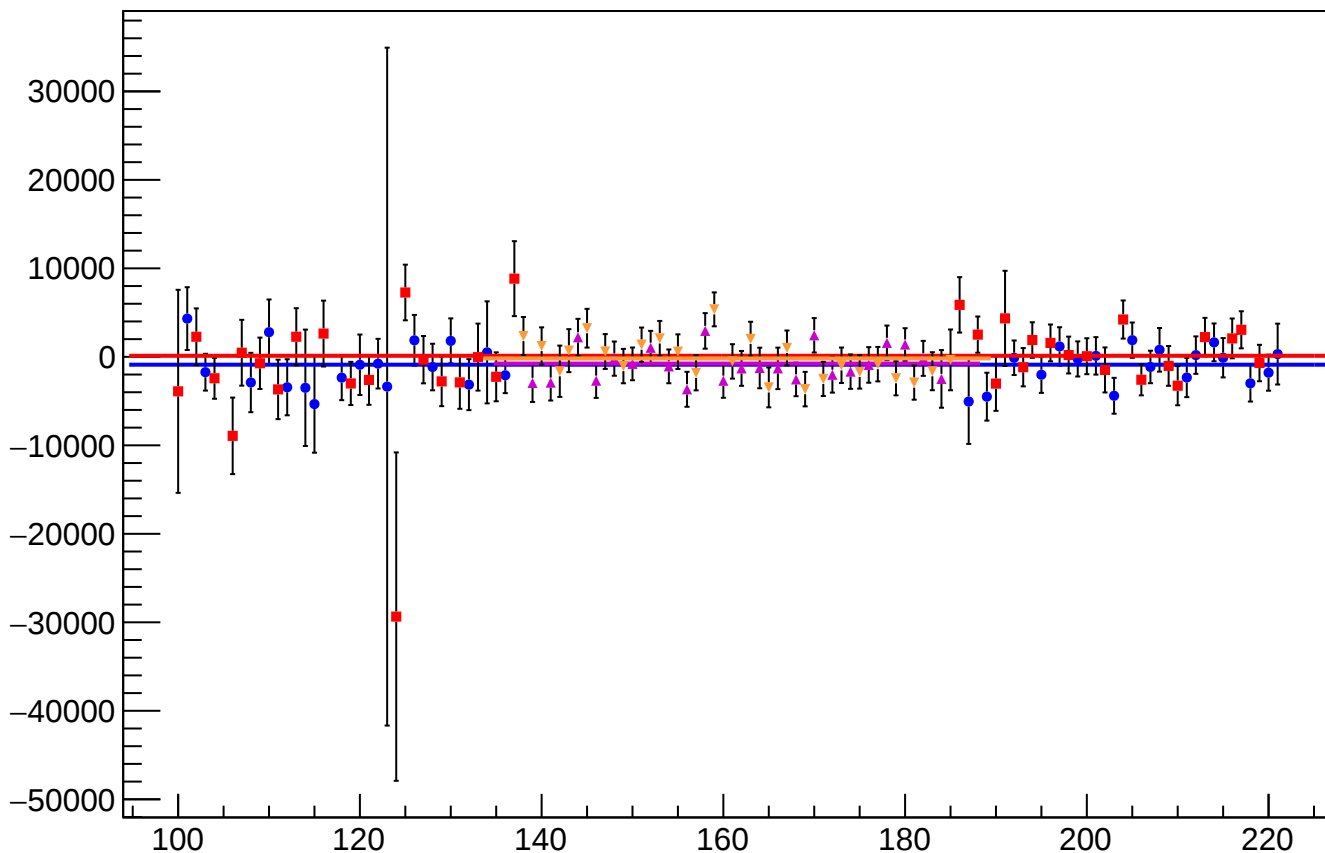
Right: 4973.196 $\pm$ 0.627 χ^2/NDF : 14544964.3/71

In: 5181.690 $\pm$ 0.639 χ^2/NDF : 8206836.6/57

Out: 5100.410 $\pm$ 0.626 χ^2/NDF : 8326027.5/61

All: 5140.221 $\pm$ 0.447 χ^2/NDF : 16541127.5/122

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -887.208+/-424.551 χ^2/NDF : 21.8/34

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 118.746+/-428.741 χ^2/NDF : 46.6/36

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

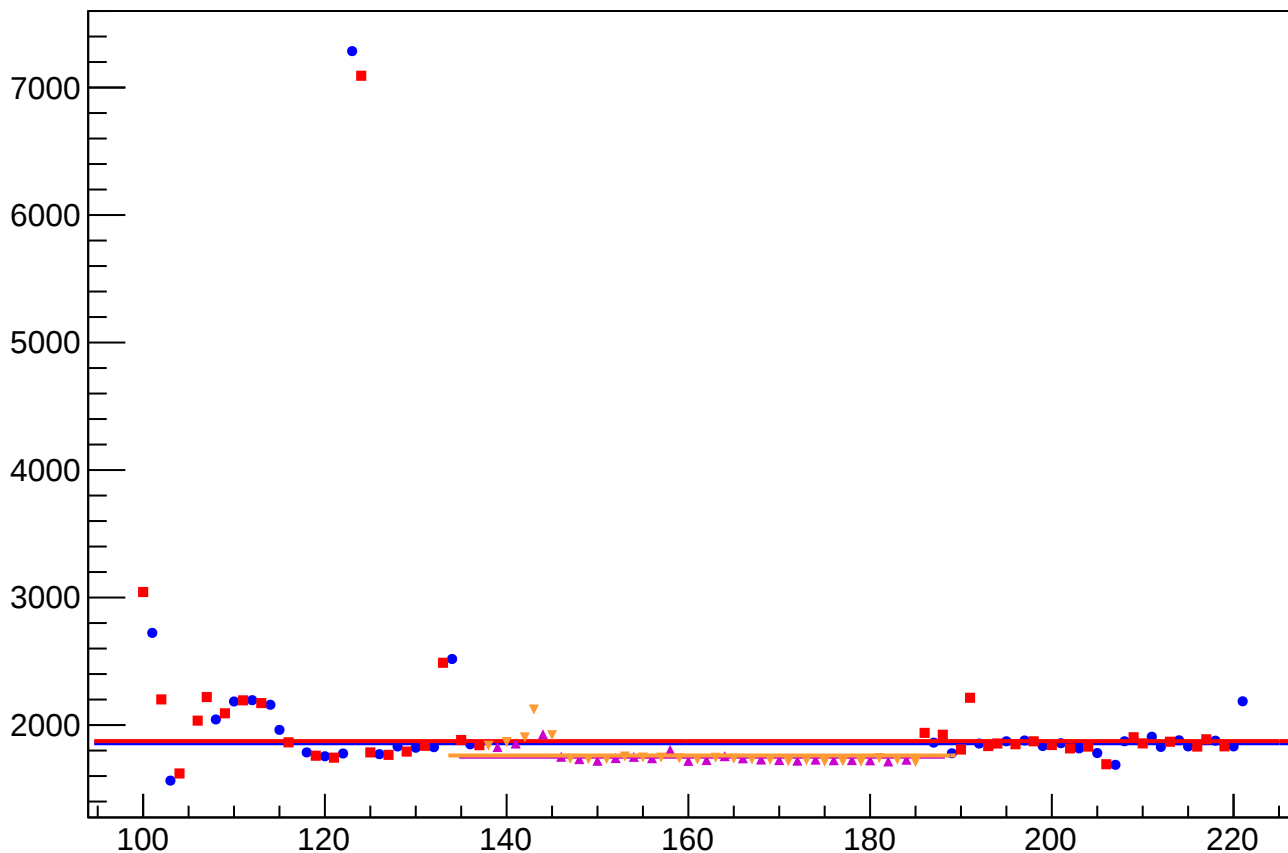
Right: -389.170+/-301.674 χ^2/NDF : 71.2/71

In: -822.780+/-298.547 χ^2/NDF : 42.1/57

Out: -36.837+/-296.686 χ^2/NDF : 76.1/61

All: -427.351+/-210.443 χ^2/NDF : 121.7/119

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1857.184 $\pm$ 0.300 χ^2 /NDF: 326185.8/34

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF:77468.5/24

Right Out: 1874.059 $\pm$ 0.303 χ^2 /NDF: 396562.2/36

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF:28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

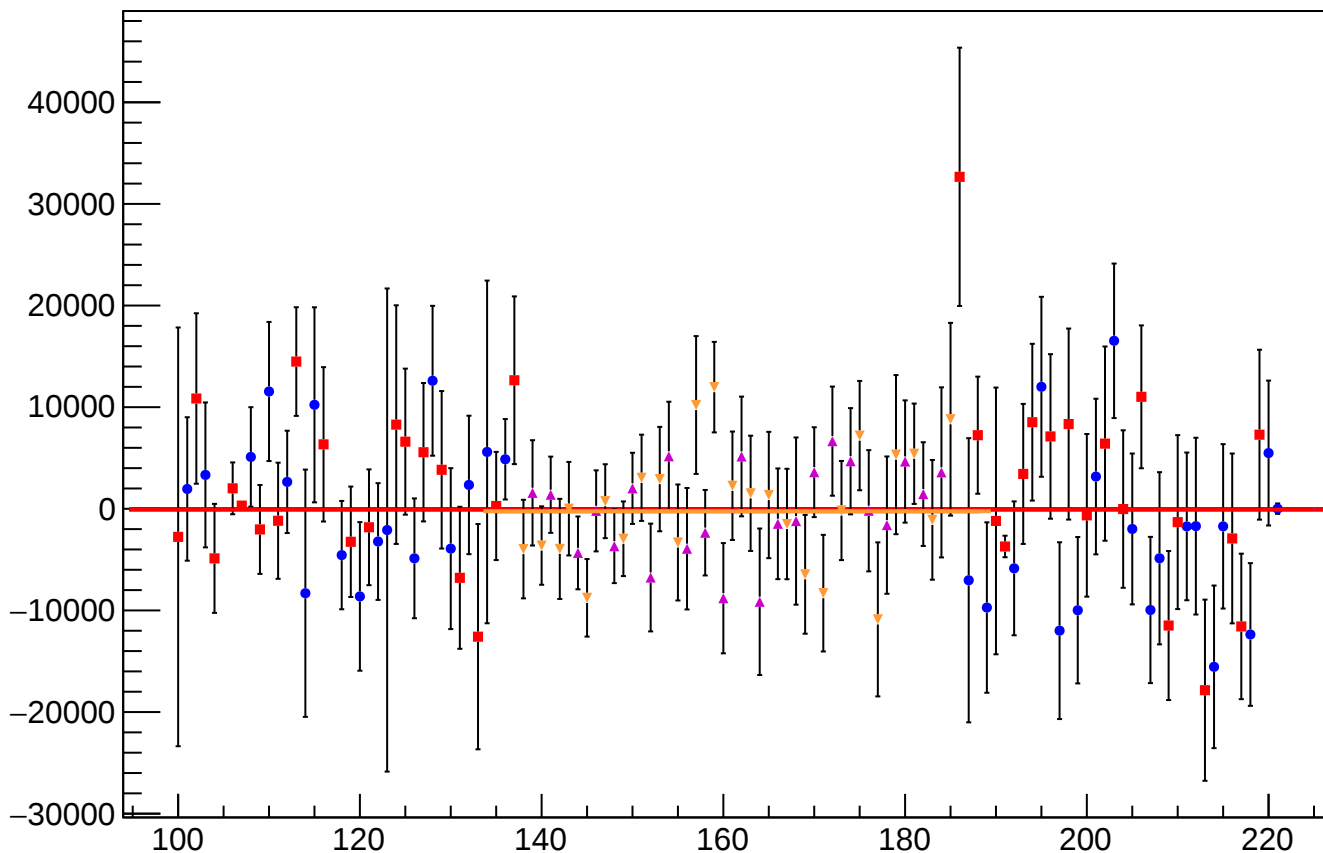
Right: 1865.543 $\pm$ 0.213 χ^2 /NDF: 724313.3/71

In: 1803.719 $\pm$ 0.211 χ^2 /NDF:417510.3/57

Out: 1815.216 $\pm$ 0.210 χ^2 /NDF:546433.3/61

All: 1809.505 $\pm$ 0.149 χ^2 /NDF: 965436.2/119

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -38.184 ± 472.025 χ^2/NDF : 37.0/34

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -87.452 ± 407.907 χ^2/NDF : 55.5/36

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

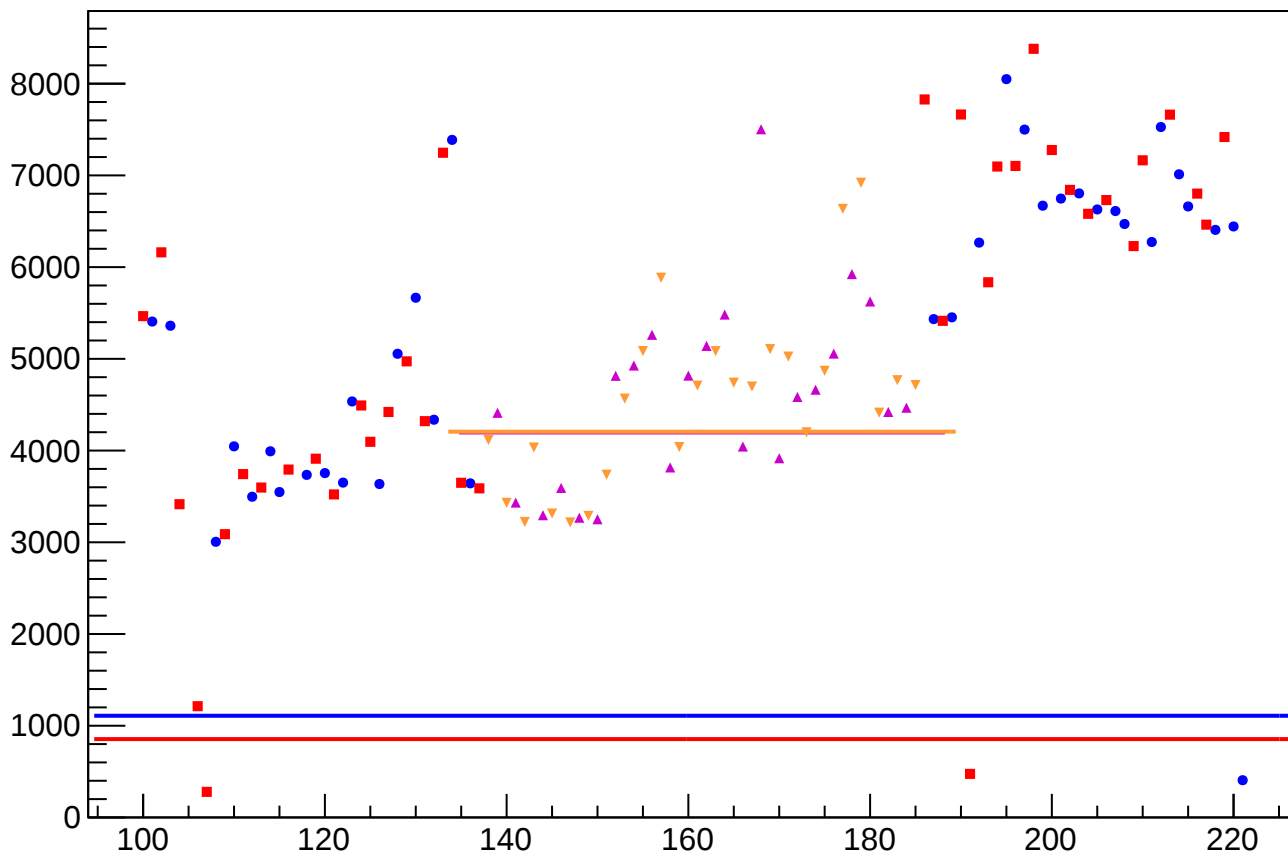
Right: -66.389 ± 308.633 χ^2/NDF : 92.5/71

In: -73.140 ± 429.030 χ^2/NDF : 52.4/57

Out: -108.429 ± 377.969 χ^2/NDF : 84.4/61

All: -93.009 ± 283.608 χ^2/NDF : 136.8/119

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1108.702 $\pm$ 0.334

χ^2 /NDF: 28038805.1/34

Left Out: 4206.076 $\pm$ 0.711

χ^2 /NDF: 1442269.3/24

Right Out: 854.396 $\pm$ 0.288

χ^2 /NDF: 29662867.7/36

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: 963.117 $\pm$ 0.218

χ^2 /NDF: 58034007.8/71

In: 1645.733 $\pm$ 0.303

χ^2 /NDF: 44398492.6/57

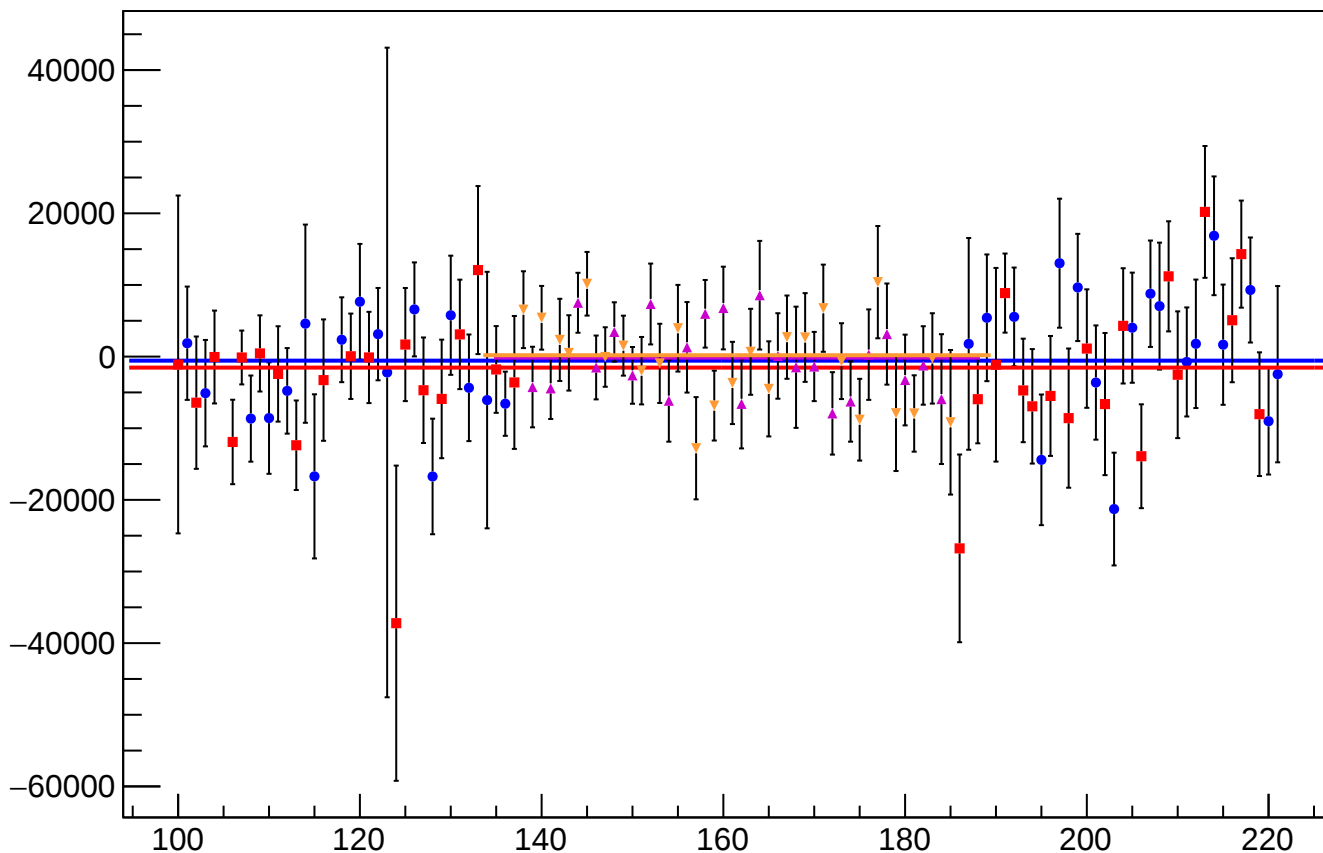
Out: 1328.330 $\pm$ 0.267

χ^2 /NDF: 50198776.8/61

All: 1467.029 $\pm$ 0.201

χ^2 /NDF: 95213581.4/1

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -566.245+/-1320.302 χ^2/NDF : 40.7/34

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -1536.192+/-1215.174 χ^2/NDF : 38.9/36

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

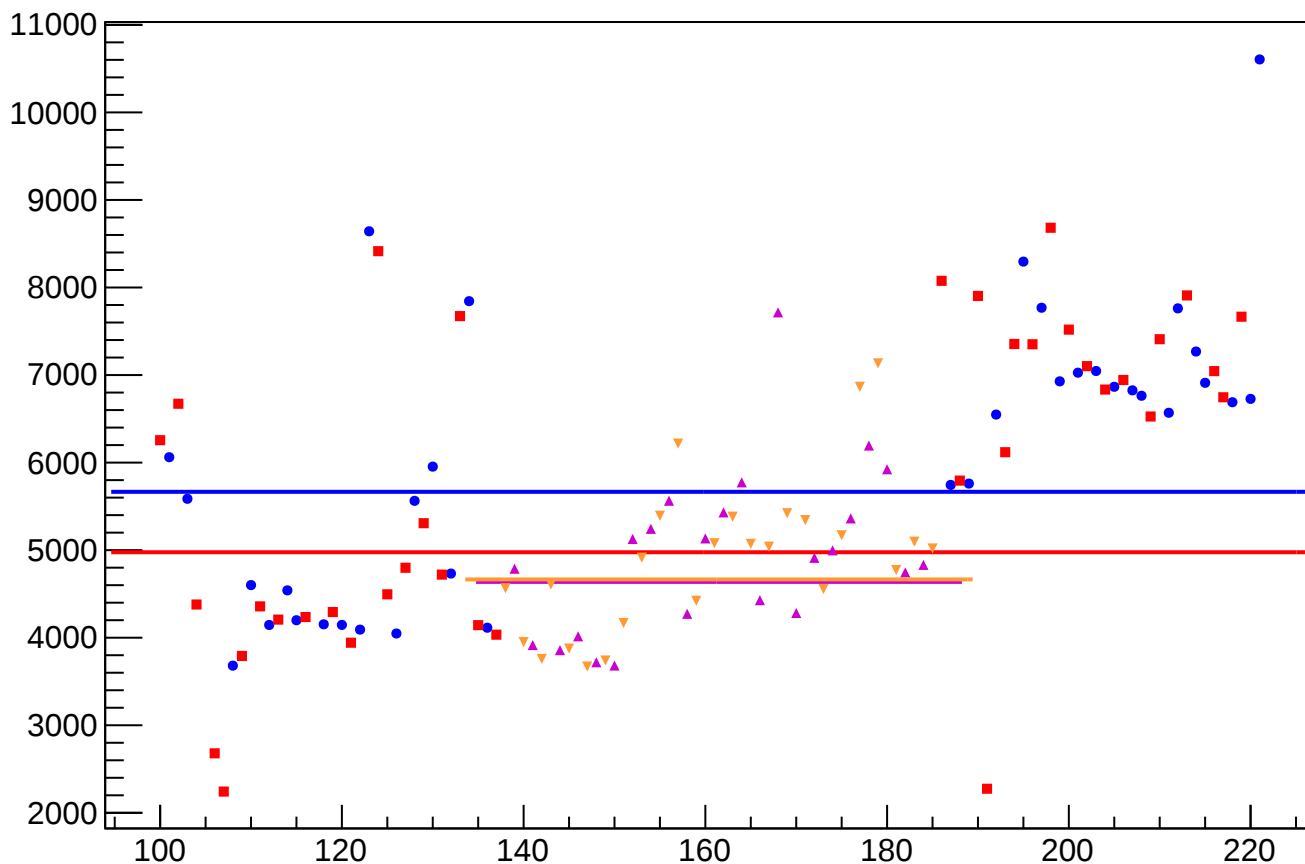
Right: -1091.366+/-894.117 χ^2/NDF : 79.9/71

In: -318.697+/-858.351 χ^2/NDF : 59.3/57

Out: -592.896+/-818.283 χ^2/NDF : 65.0/61

All: -462.345+/-592.272 χ^2/NDF : 124.4/119

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5666.442 ± 0.934 $\chi^2/\text{NDF}: 2462467.4/34$

Left Out: 4665.620 ± 0.783 $\chi^2/\text{NDF}: 1017235.0/24$

Right Out: 4976.127 ± 0.856 $\chi^2/\text{NDF}: 4765989.1/36$

Left In: 4637.777 ± 0.799 $\chi^2/\text{NDF}: 1065217.2/22$

Left: 4651.983 ± 0.559 $\chi^2/\text{NDF}: 2083072.1/47$

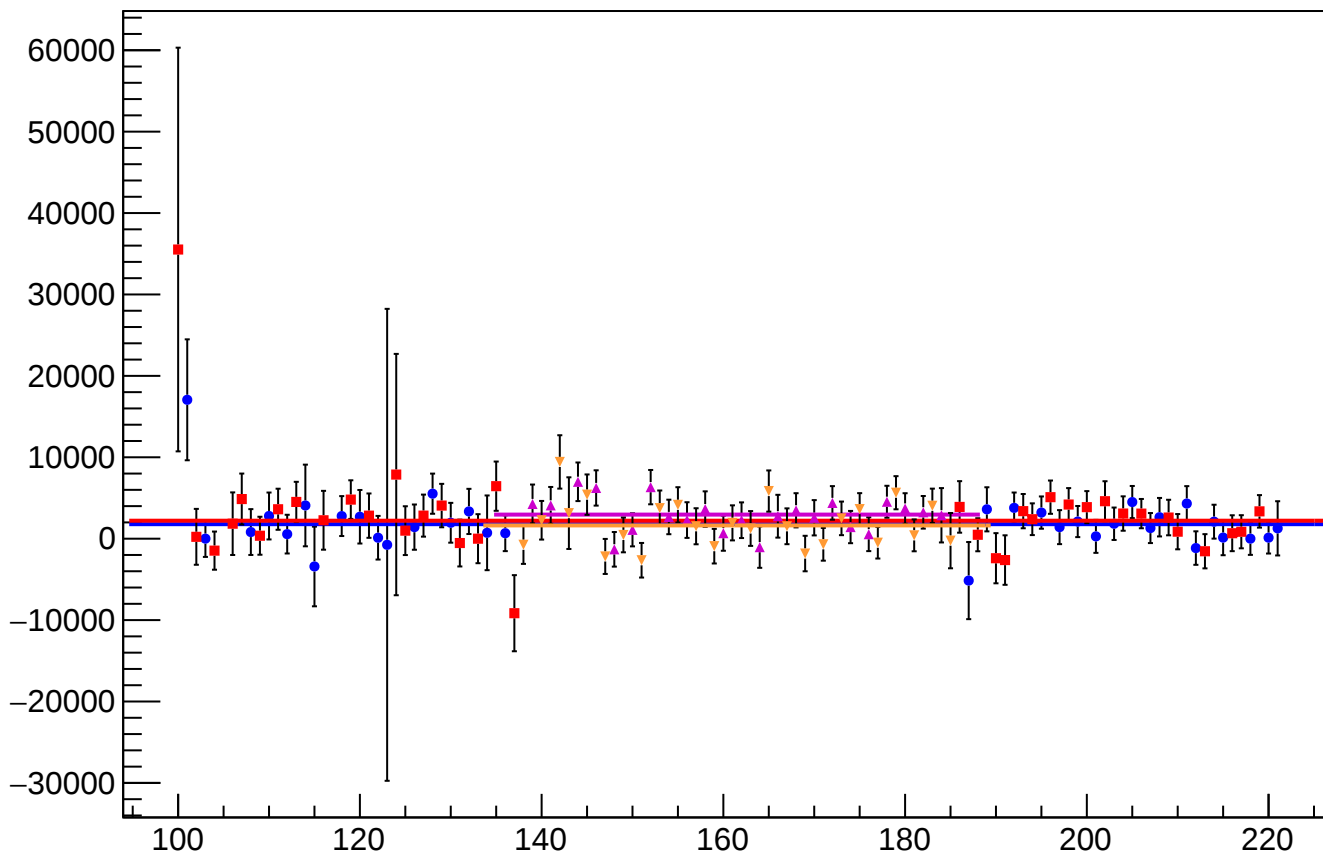
Right: 5291.400 ± 0.631 $\chi^2/\text{NDF}: 7525493.6/71$

In: 5072.545 ± 0.607 $\chi^2/\text{NDF}: 4228604.9/57$

Out: 4807.009 ± 0.578 $\chi^2/\text{NDF}: 5854894.2/61$

All: 4933.205 ± 0.418 $\chi^2/\text{NDF}: 10183937.9/121$

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1782.103+/-411.147 χ^2/NDF : 22.8/34

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2208.883+/-409.636 χ^2/NDF : 34.6/36

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

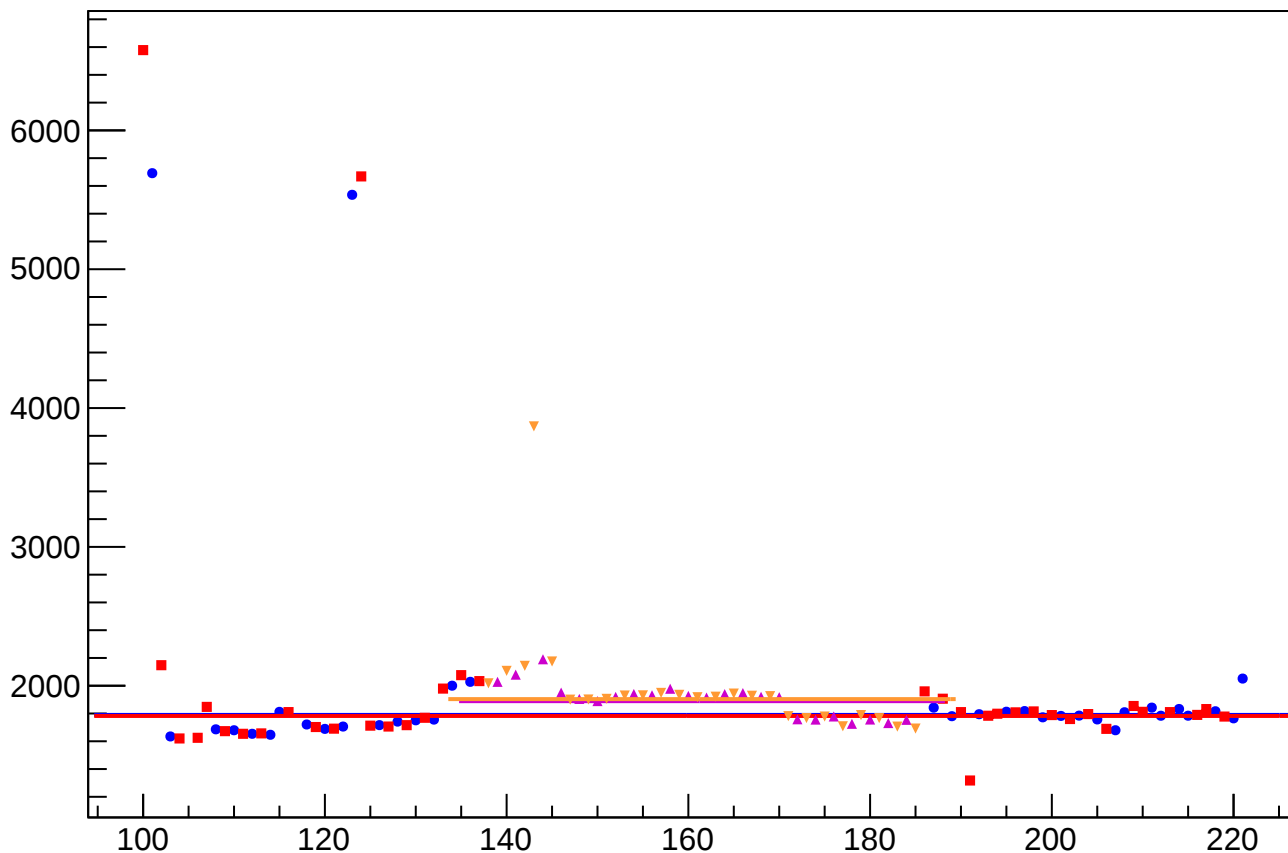
Right: 1996.279+/-290.189 χ^2/NDF : 57.9/71

In: 2312.628+/-304.657 χ^2/NDF : 46.9/57

Out: 1944.699+/-302.023 χ^2/NDF : 70.9/61

All: 2127.066+/-214.488 χ^2/NDF : 118.6/119

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1789.753+/-0.291 χ^2/NDF : 668829.2/34

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1782.349+/-0.289 χ^2/NDF : 378336.8/36

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

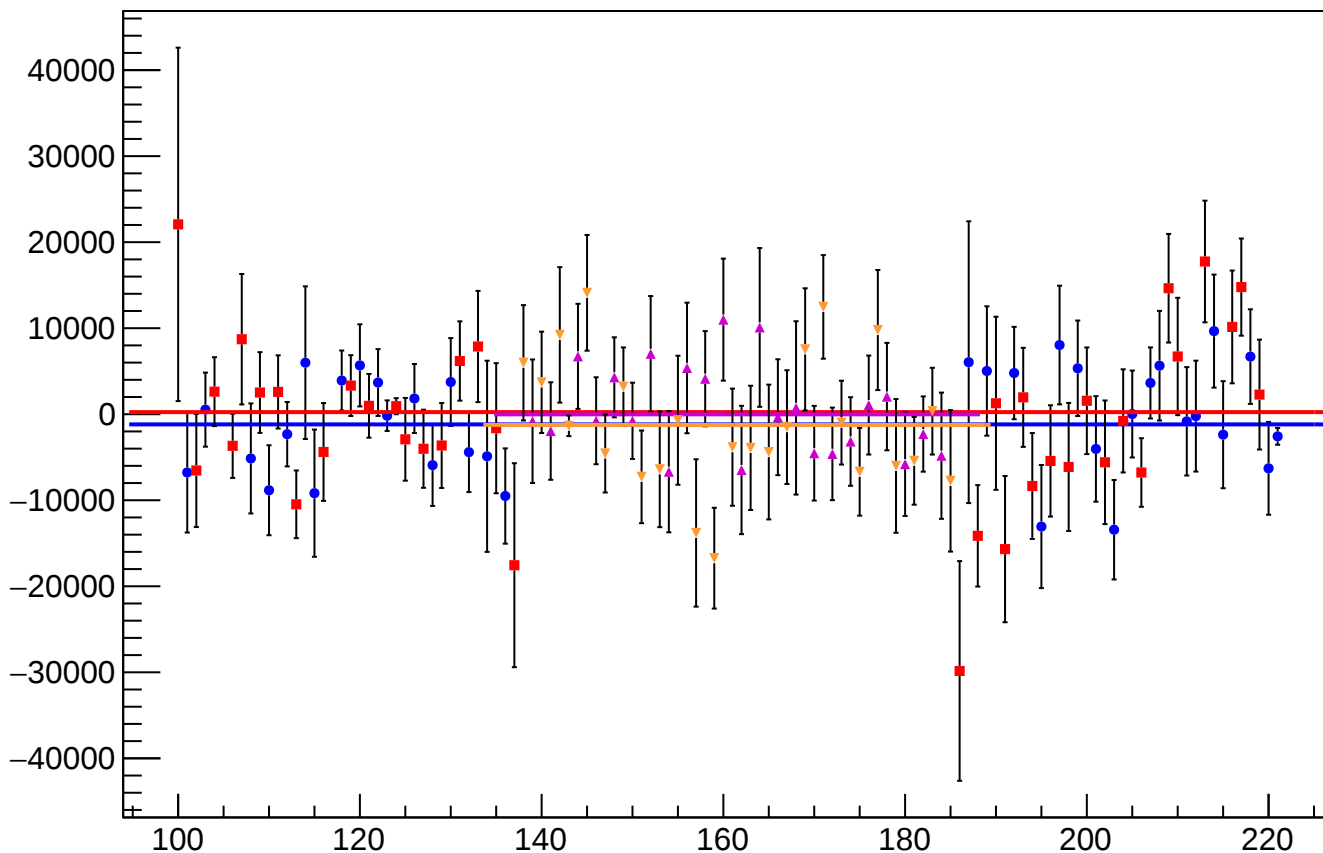
Right: 1786.028+/-0.205 χ^2/NDF : 1047492.2/71

In: 1834.473+/-0.215 χ^2/NDF : 847720.2/57

Out: 1837.547+/-0.213 χ^2/NDF : 1000090.7/61

All: 1836.025+/-0.152 χ^2/NDF : 1847913.8/11

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1181.758+/-632.837 χ^2/NDF : 39.7/34

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: 244.576+/-654.148 χ^2/NDF : 65.8/36

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

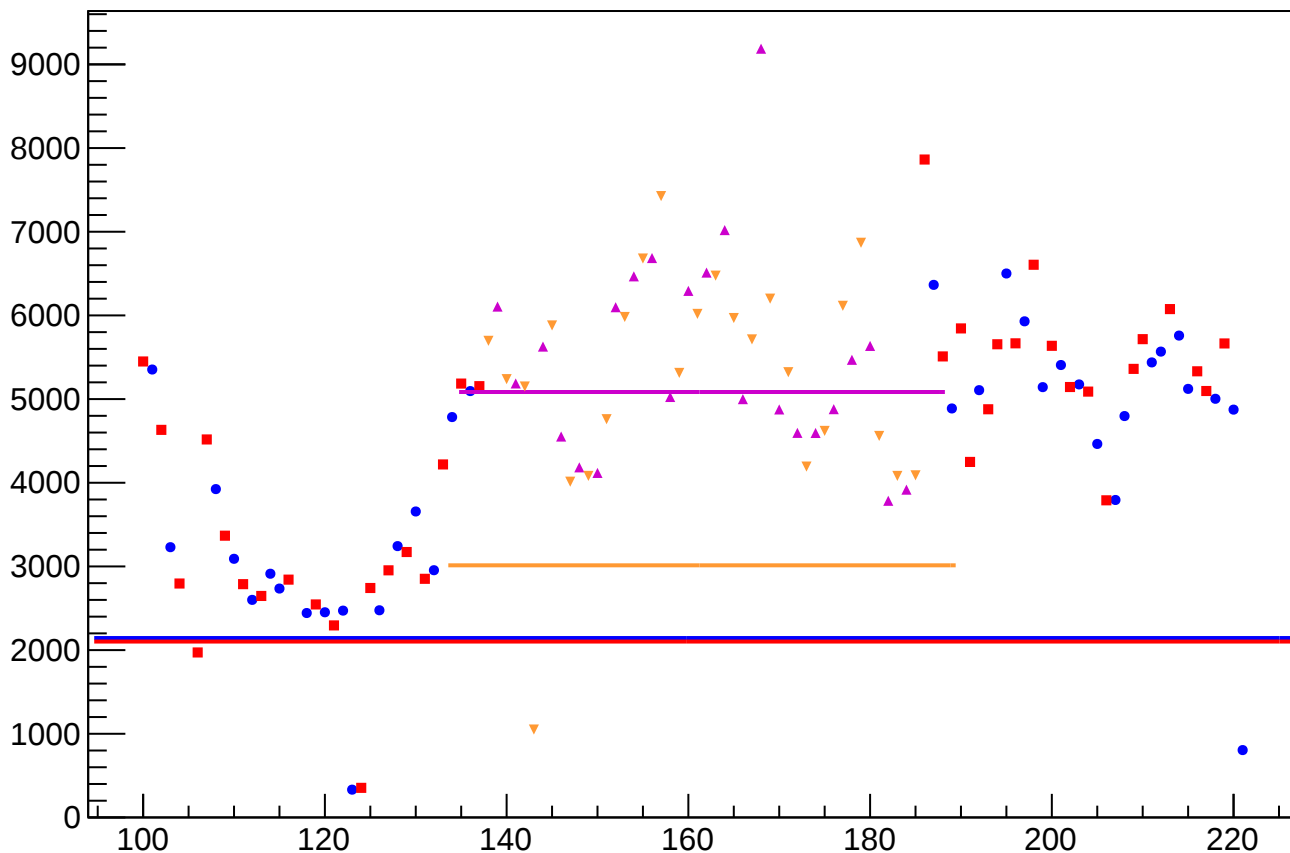
Right: -492.203+/-454.831 χ^2/NDF : 108.0/71

In: -941.859+/-563.984 χ^2/NDF : 53.7/57

Out: -295.333+/-521.796 χ^2/NDF : 101.6/61

All: -593.512+/-383.013 χ^2/NDF : 156.0/119

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2144.263 $\pm$ 0.447

χ^2/NDF : 16092778.0/34

Left: 3689.075 $\pm$ 0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268 $\pm$ 0.612

χ^2/NDF : 12270753.9/24

Right: 2123.968 $\pm$ 0.322

χ^2/NDF : 34151361.0/71

Right Out: 2102.282 $\pm$ 0.463

χ^2/NDF : 18054328.0/36

In: 2749.288 $\pm$ 0.399

χ^2/NDF : 26280659.5/57

Out: 2433.626 $\pm$ 0.369

χ^2/NDF : 31735888.4/61

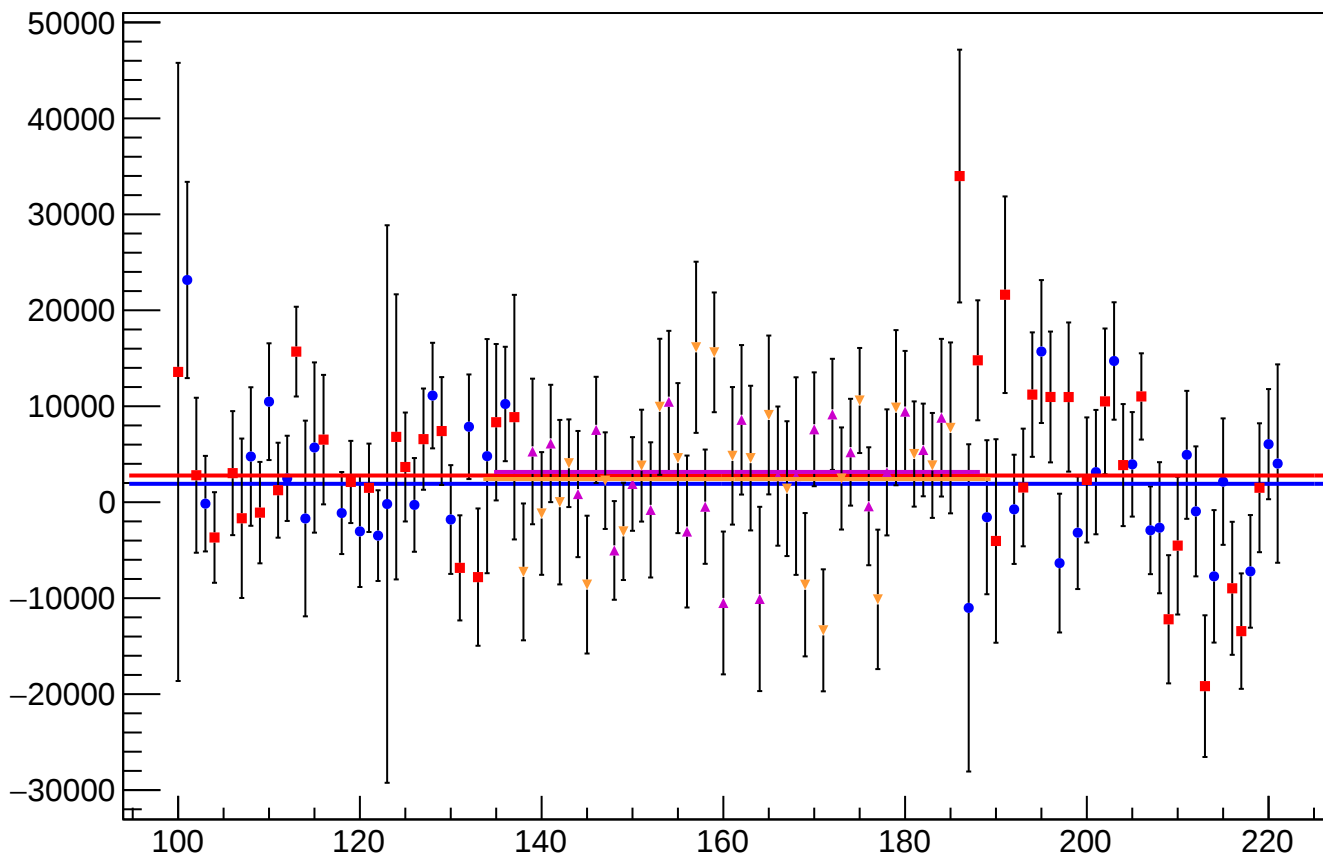
Left In: 5084.645 $\pm$ 0.879

χ^2/NDF : 1303587.7/22

All: 2579.210 $\pm$ 0.271

χ^2/NDF : 58354120.7/1

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1916.223+/-1053.669 χ^2/NDF : 34.0/34

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 2781.594+/-1050.069 χ^2/NDF : 65.1/36

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

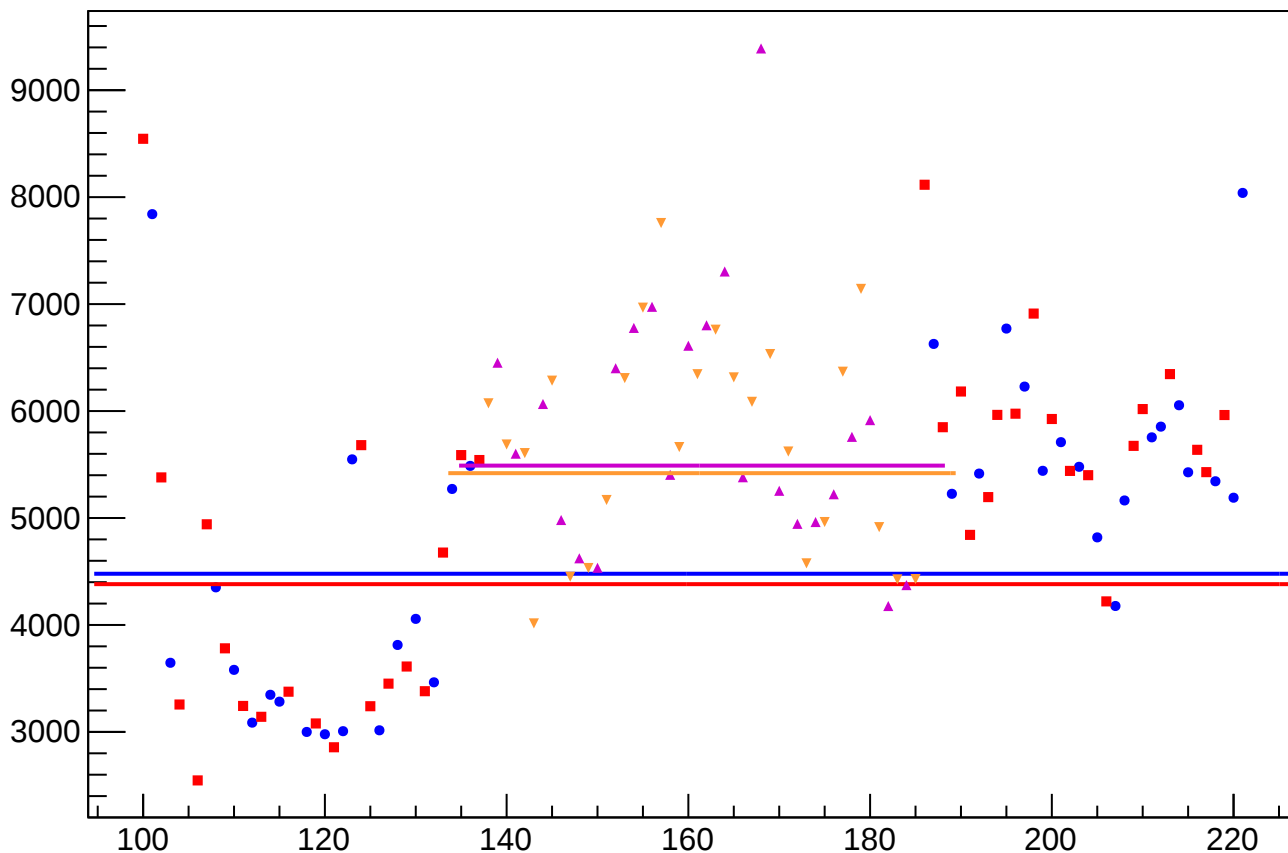
Right: 2350.389+/-743.780 χ^2/NDF : 99.4/71

In: 2390.071+/-827.655 χ^2/NDF : 50.0/57

Out: 2635.897+/-813.485 χ^2/NDF : 95.0/61

All: 2515.106+/-580.166 χ^2/NDF : 145.1/119

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4478.778 ± 0.745 $\chi^2/\text{NDF}: 2737506.4/34$

Left Out: 5419.305 ± 0.910 $\chi^2/\text{NDF}: 1109972.1/24$

Right Out: 4381.550 ± 0.736 $\chi^2/\text{NDF}: 3066813.0/36$

Left In: 5489.885 ± 0.946 $\chi^2/\text{NDF}: 1064353.3/22$

Left: 5453.227 ± 0.656 $\chi^2/\text{NDF}: 2177218.7/47$

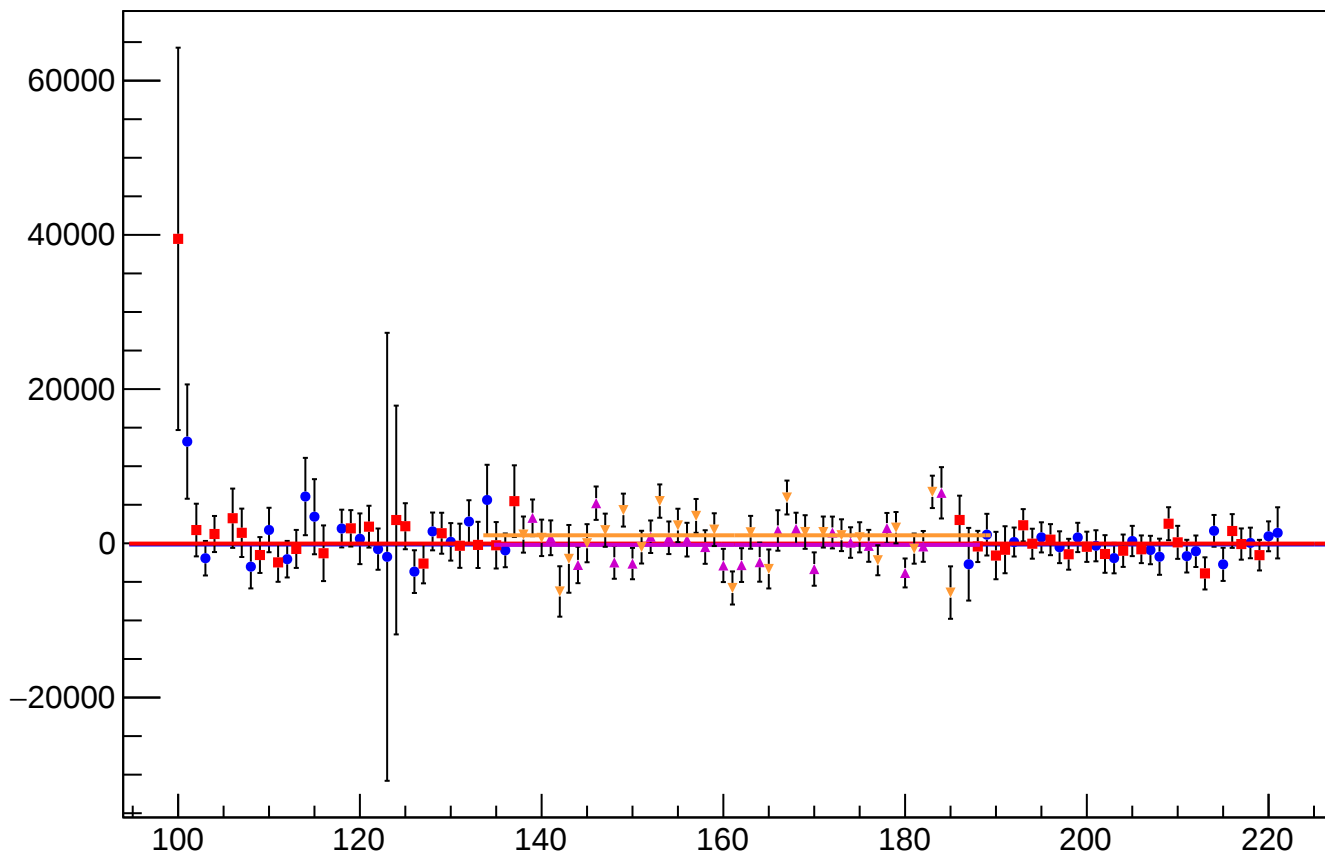
Right: 4429.601 ± 0.524 $\chi^2/\text{NDF}: 5812932.8/71$

In: 4866.023 ± 0.585 $\chi^2/\text{NDF}: 4507214.9/57$

Out: 4792.432 ± 0.572 $\chi^2/\text{NDF}: 4962919.8/61$

All: 4828.411 ± 0.409 $\chi^2/\text{NDF}: 9478215.9/11$

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -151.595+/-408.939 χ^2 /NDF: 19.8/34

Left Out: 1041.262+/-446.249 χ^2 /NDF:48.6/24

Right Out: -35.406+/-407.411 χ^2 /NDF: 20.1/36

Left In: -191.966+/-453.055 χ^2 /NDF:30.0/22

Left: 433.980+/-317.925 χ^2 /NDF: 82.3/47

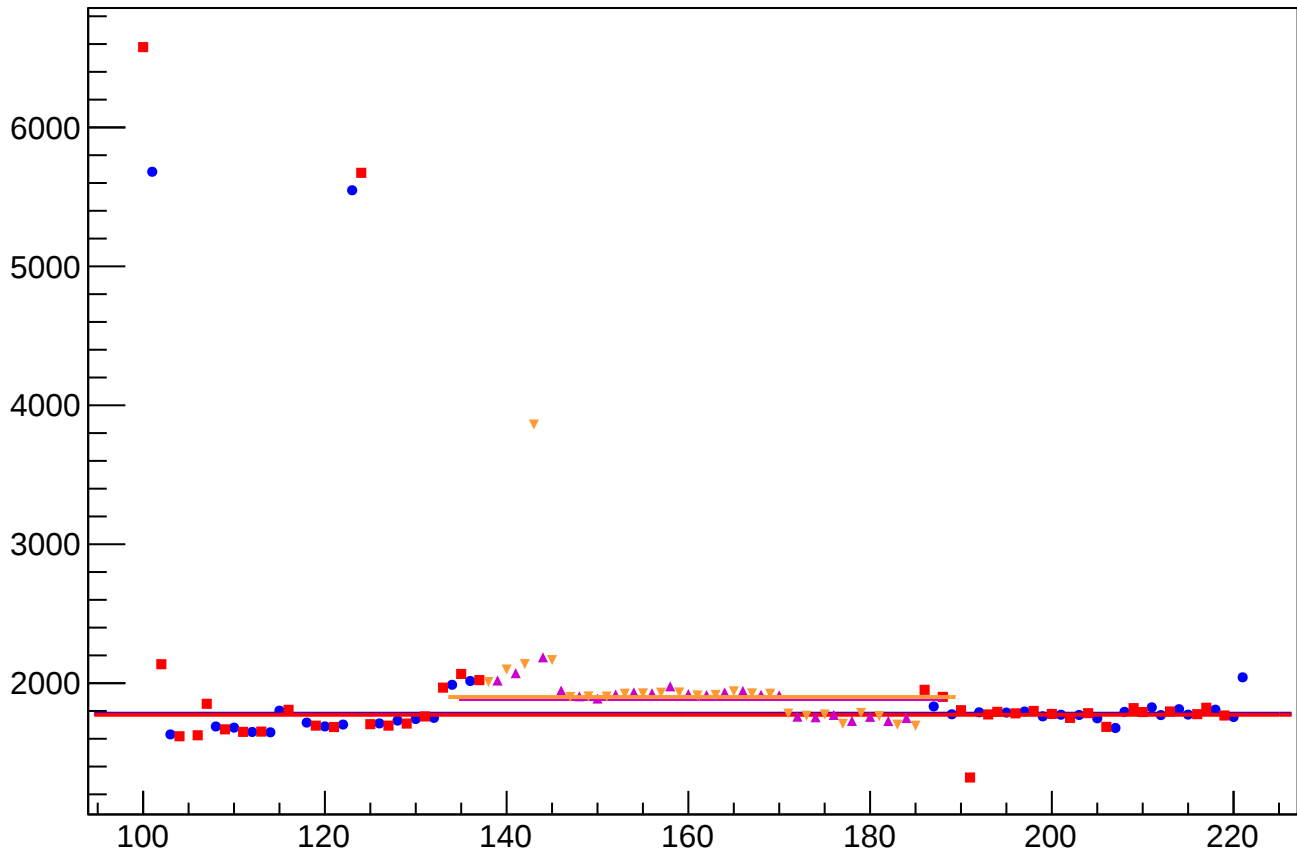
Right: -93.283+/-288.622 χ^2 /NDF: 39.9/71

In: -169.720+/-303.565 χ^2 /NDF:49.8/57

Out: 454.045+/-300.878 χ^2 /NDF:71.8/61

All: 144.935+/-213.697 χ^2 /NDF: 123.7/119

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.252+/-0.289 χ^2/NDF : 665251.8/34

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1772.915+/-0.287 χ^2/NDF : 372879.1/36

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

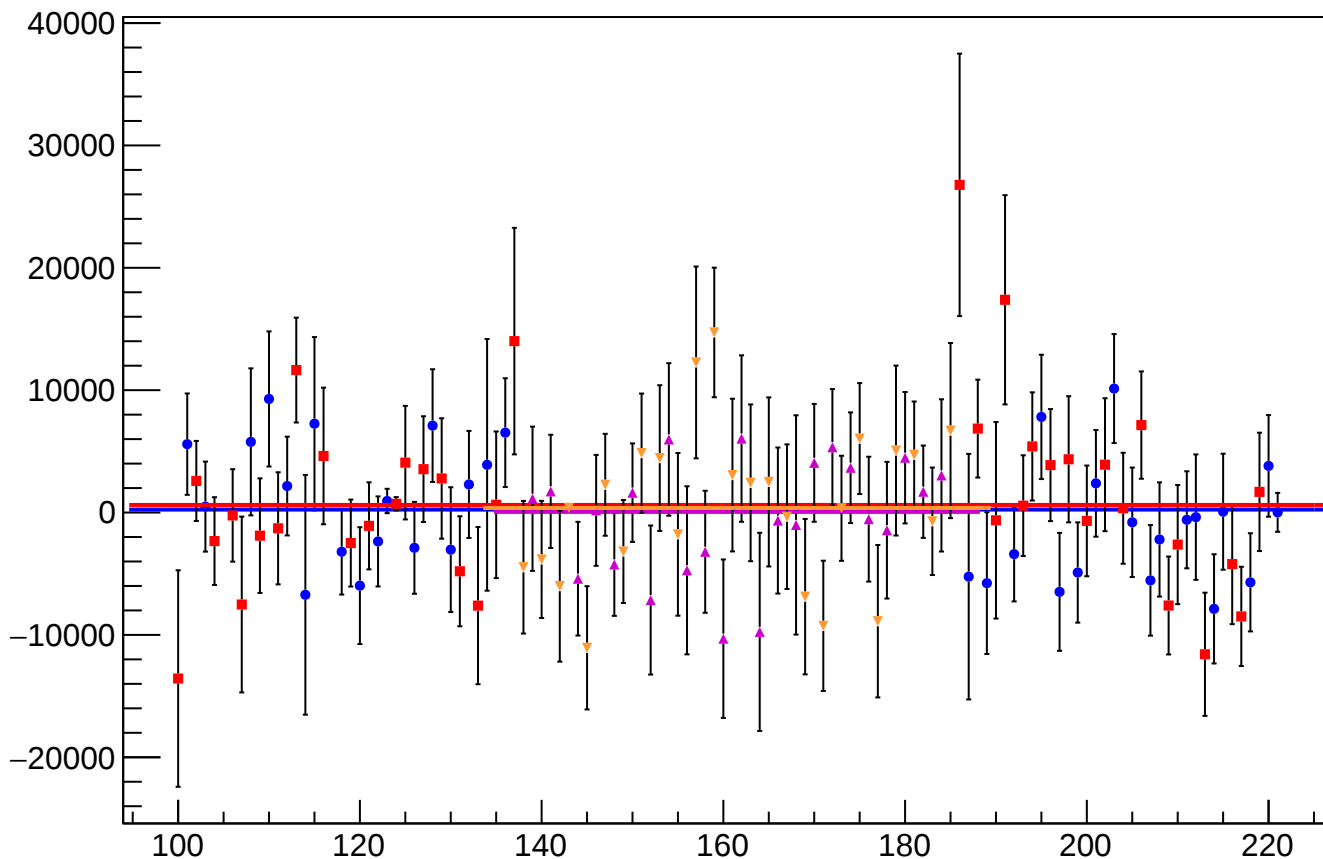
Right: 1776.561+/-0.204 χ^2/NDF : 1038454.8/71

In: 1827.897+/-0.215 χ^2/NDF : 849244.9/57

Out: 1830.667+/-0.212 χ^2/NDF : 999846.8/61

All: 1829.296+/-0.151 χ^2/NDF : 1849175.8/111

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 243.487 $\pm$ 580.302 χ^2 /NDF: 37.7/34

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 619.462 $\pm$ 448.880 χ^2 /NDF: 53.7/36

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

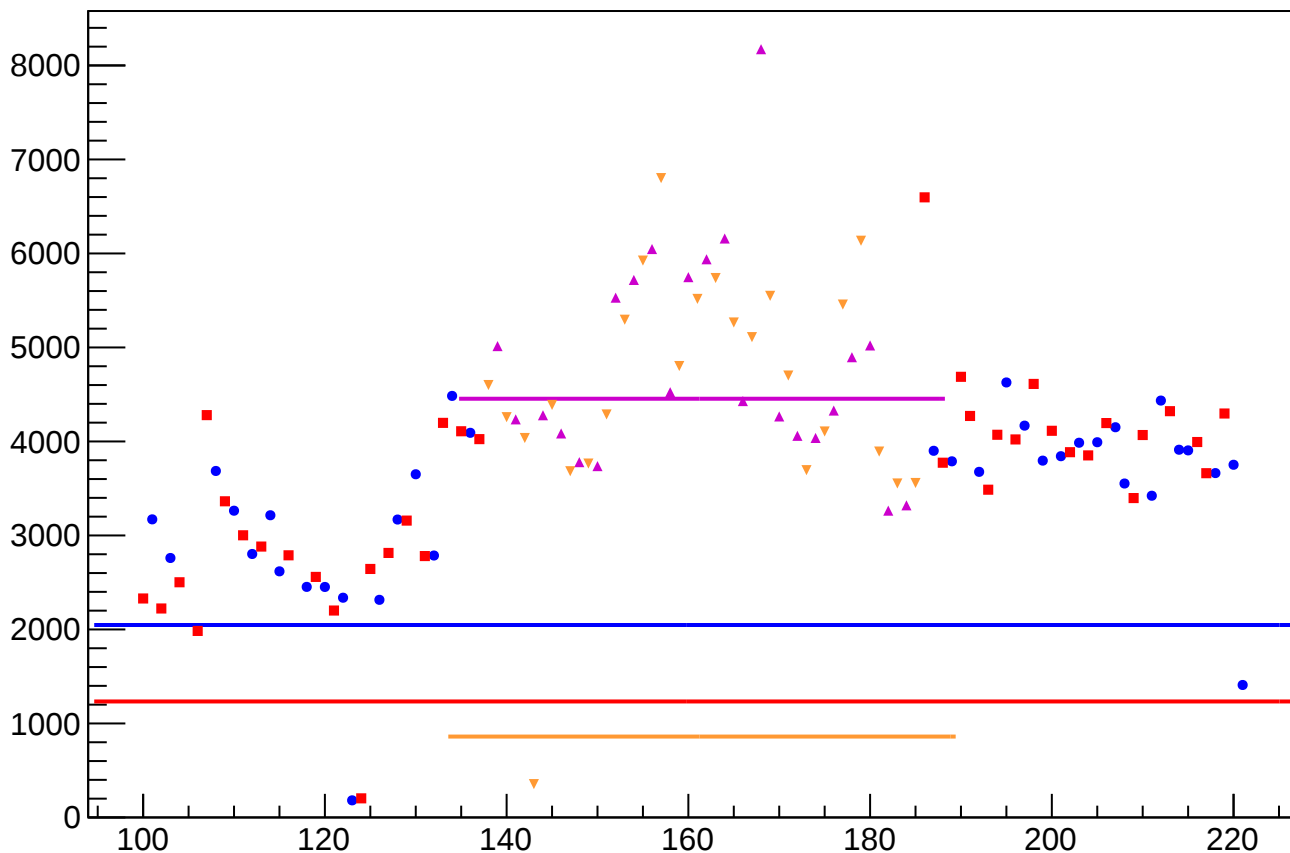
Right: 478.715 $\pm$ 355.054 χ^2 /NDF: 91.7/71

In: 201.434 $\pm$ 512.220 χ^2 /NDF:52.3/57

Out: 476.704 $\pm$ 290.948 χ^2 /NDF:84.7/61

All: 409.556 $\pm$ 252.985 χ^2 /NDF: 137.2/119

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2047.439+/-0.410 χ^2/NDF : 14501788.7/34

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 1233.984+/-0.317 χ^2/NDF : 23610248.0/36

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

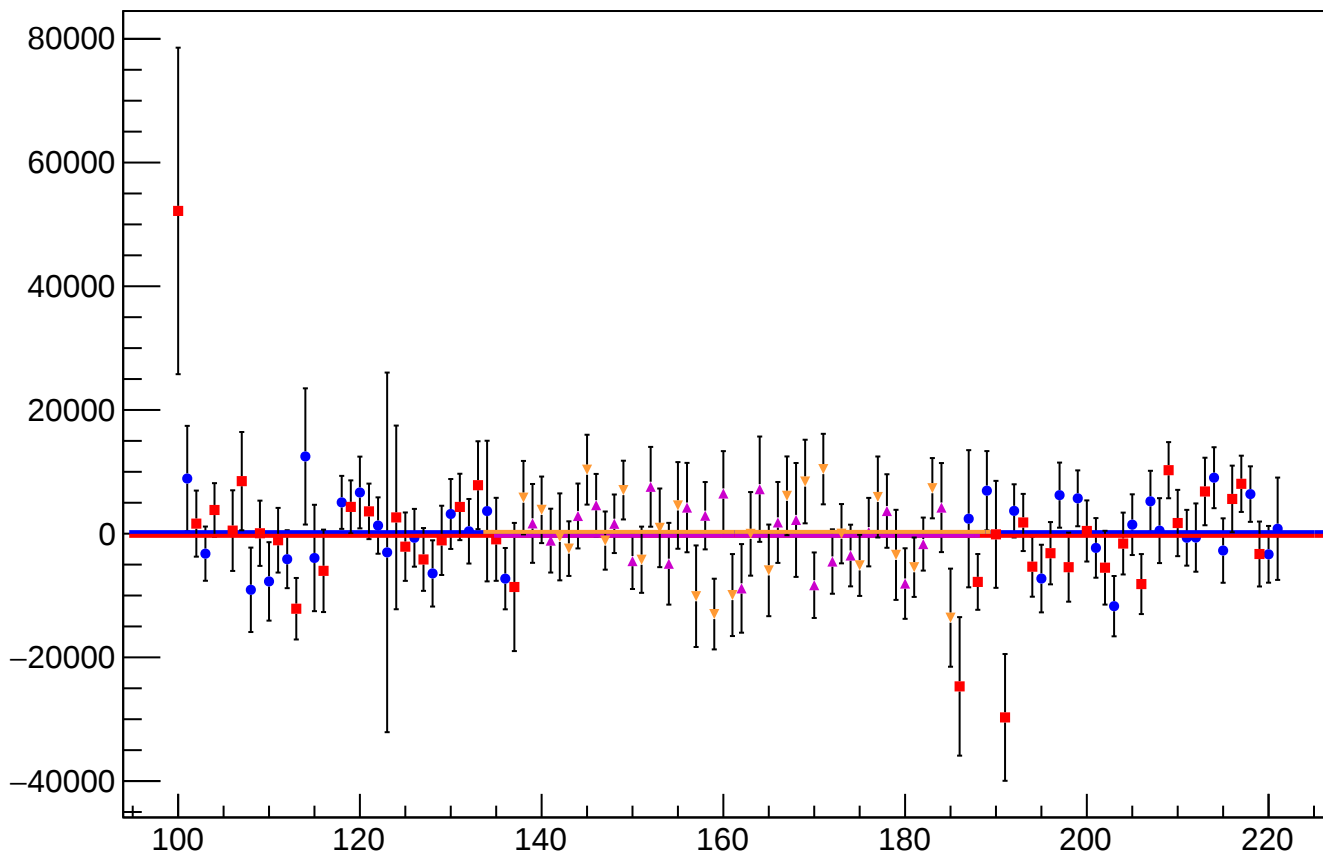
Right: 1538.503+/-0.251 χ^2/NDF : 40570810.4/71

In: 2579.081+/-0.362 χ^2/NDF : 23451507.6/57

Out: 1017.433+/-0.206 χ^2/NDF : 50753046.4/61

All: 1398.374+/-0.179 χ^2/NDF : 88259901.8/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 247.275 ± 916.283 χ^2/NDF : 34.1/34

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -350.605 ± 916.346 χ^2/NDF : 51.9/36

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

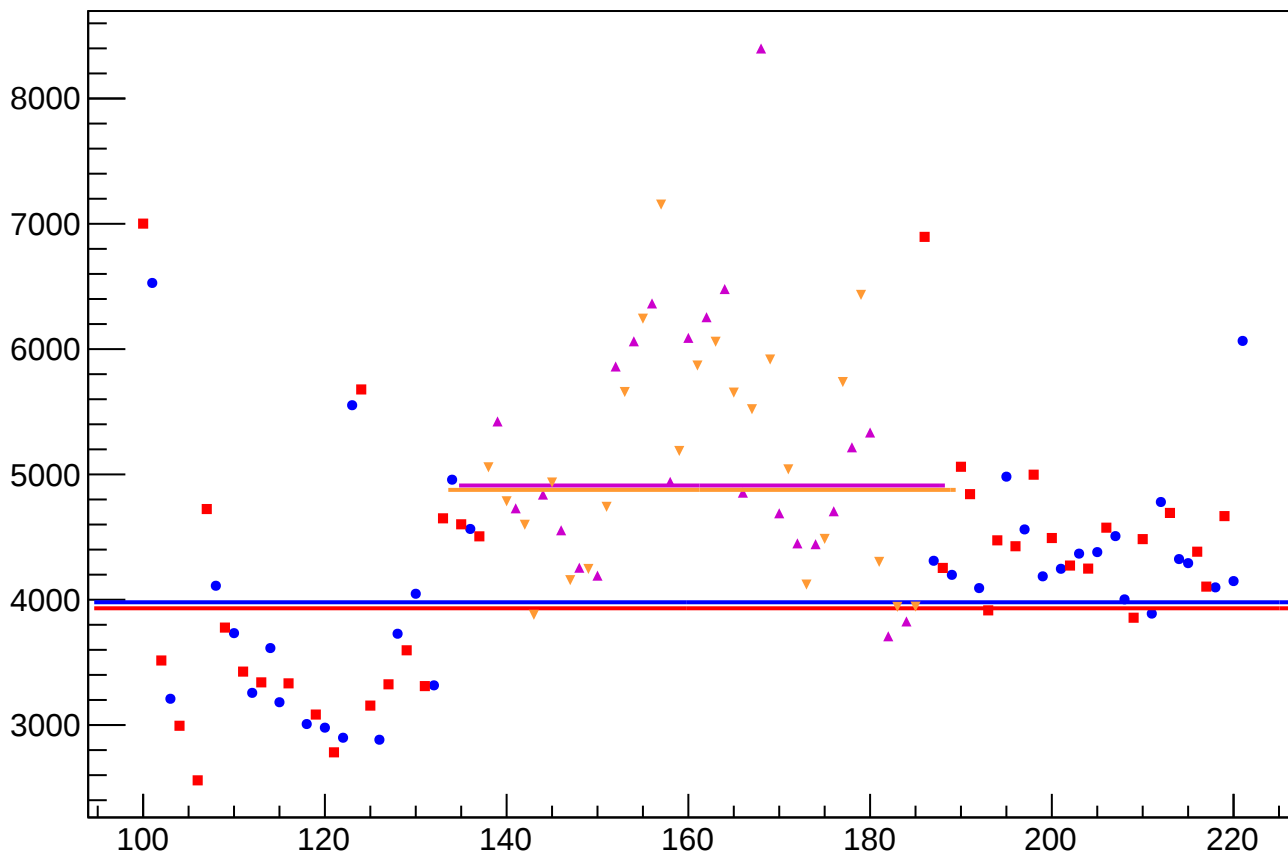
Right: -51.644 ± 647.932 χ^2/NDF : 86.2/71

In: 32.847 ± 727.361 χ^2/NDF : 48.9/57

Out: -103.830 ± 717.961 χ^2/NDF : 84.4/61

All: -36.380 ± 510.966 χ^2/NDF : 133.4/119

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3979.707 $\pm$ 0.648 χ^2 /NDF: 1129854.6/34

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3931.581 $\pm$ 0.644 χ^2 /NDF: 1257883.0/36

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

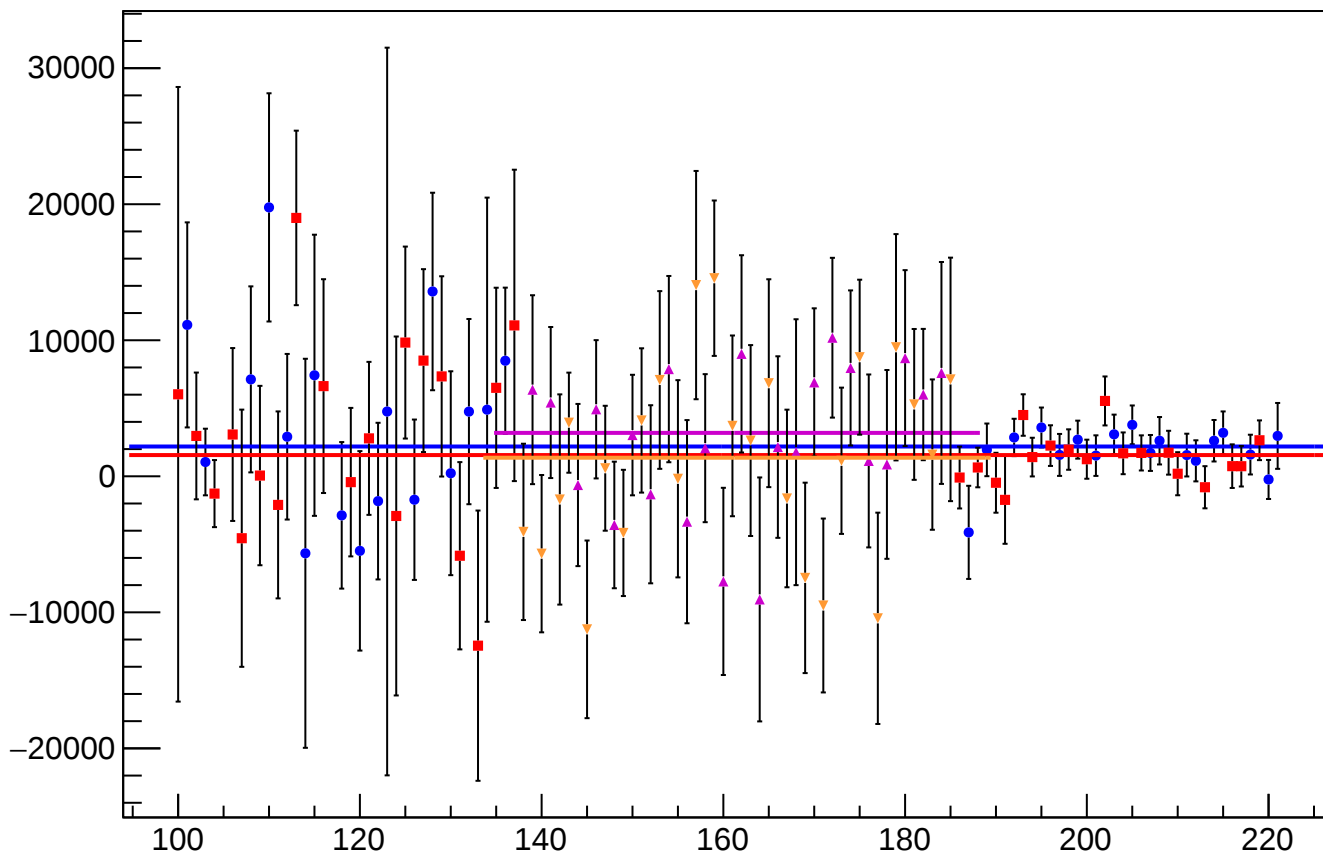
Right: 3955.496 $\pm$ 0.457 χ^2 /NDF: 2390513.2/71

In: 4324.350 $\pm$ 0.514 χ^2 /NDF: 2938058.9/57

Out: 4293.670 $\pm$ 0.506 χ^2 /NDF: 3055620.3/61

All: 4308.752 $\pm$ 0.361 χ^2 /NDF: 5995488.3/11

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2189.542 $\pm$ 356.298 χ^2 /NDF: 25.2/34

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1560.058 $\pm$ 361.755 χ^2 /NDF: 33.7/36

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

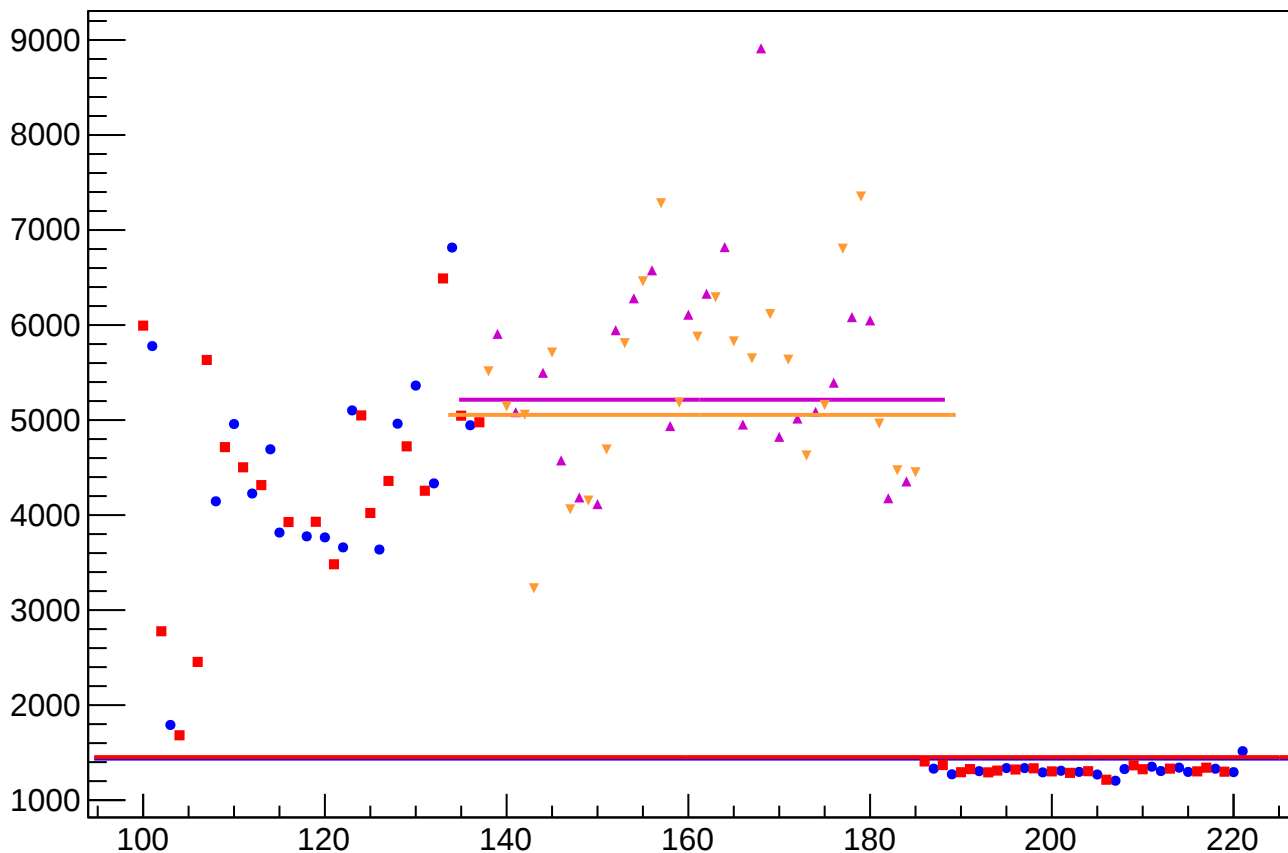
Right: 1879.584 $\pm$ 253.848 χ^2 /NDF: 60.5/71

In: 2262.623 $\pm$ 343.053 χ^2 /NDF:39.8/57

Out: 1543.969 $\pm$ 346.508 χ^2 /NDF:61.7/61

All: 1906.897 $\pm$ 243.788 χ^2 /NDF: 103.7/119

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1437.380+/-0.252 χ^2/NDF : 5949774.1/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1452.441+/-0.256 χ^2/NDF : 5865792.1/36

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

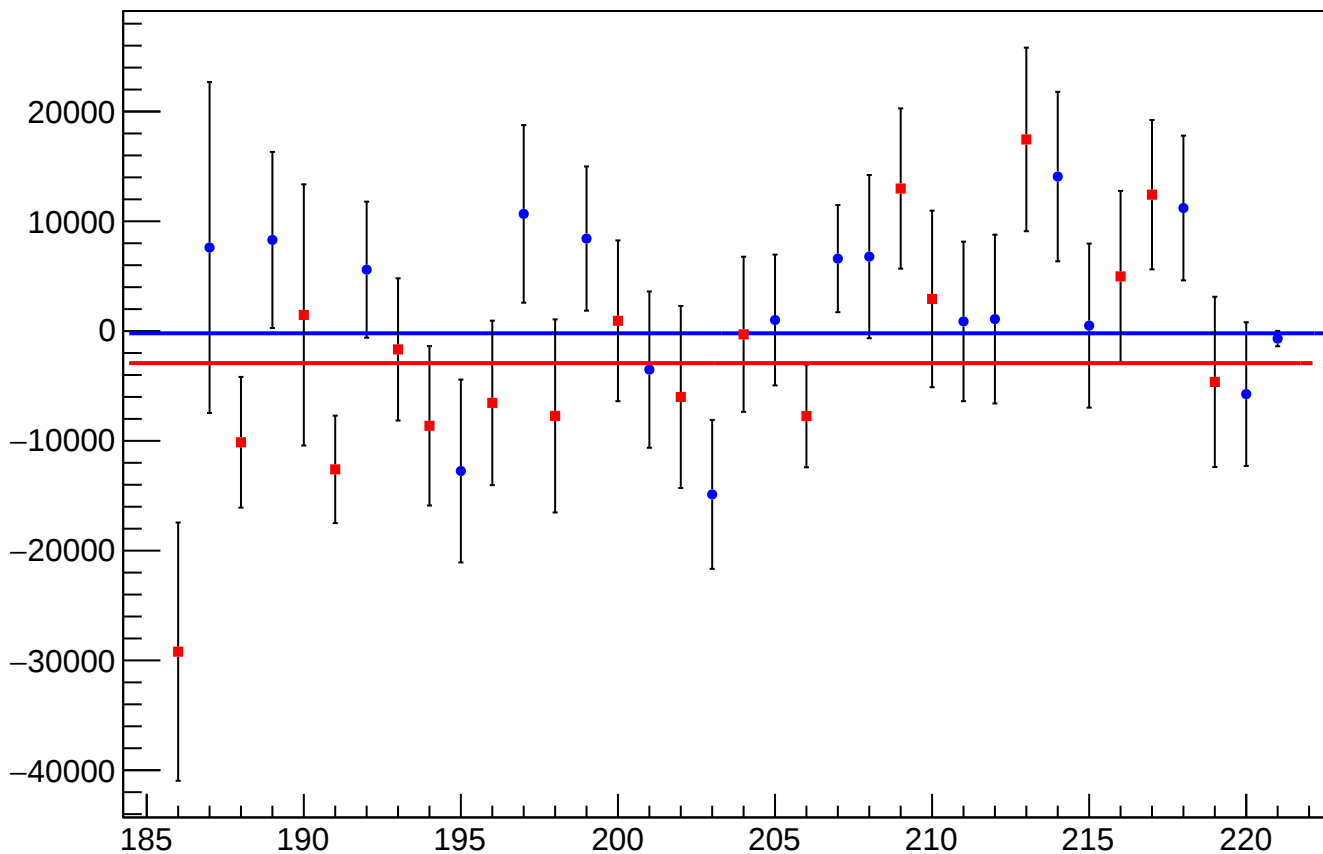
Right: 1444.801+/-0.179 χ^2/NDF : 11817327.0/71

In: 1712.941+/-0.243 χ^2/NDF : 23398332.3/57

Out: 1749.340+/-0.245 χ^2/NDF : 23668884.6/61

All: 1730.969+/-0.172 χ^2/NDF : 47078368.8/122

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: -201.175+/-646.437 χ^2/NDF : 23.5/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -2916.661+/-1666.491 χ^2/NDF : 30.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

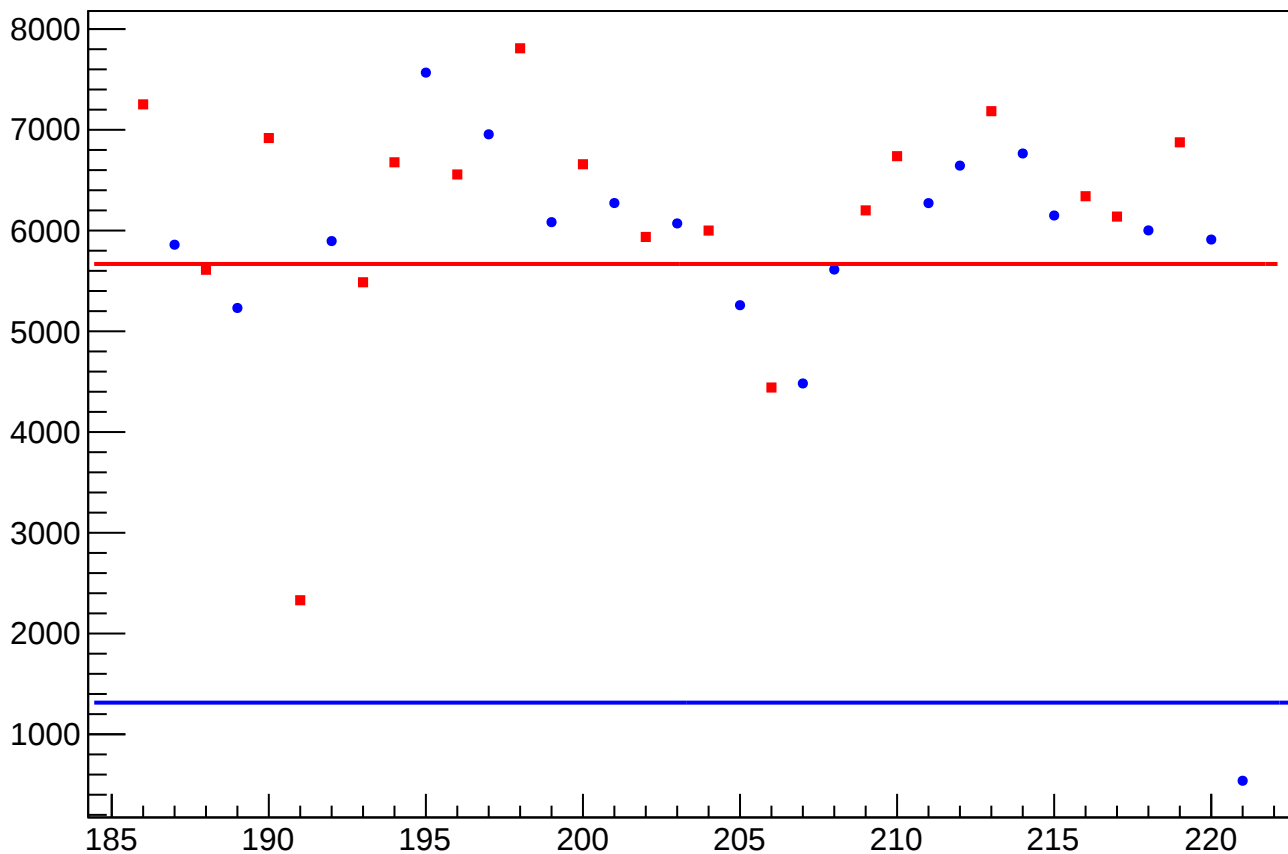
Right: -556.332+/-602.683 χ^2/NDF : 56.5/35

In: -201.175+/-646.437 χ^2/NDF : 23.5/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -556.332+/-602.683 χ^2/NDF : 56.5/35

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 1314.140+/-0.457 χ^2/NDF : 17436987.6/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5668.303+/-1.178 χ^2/NDF : 1541309.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

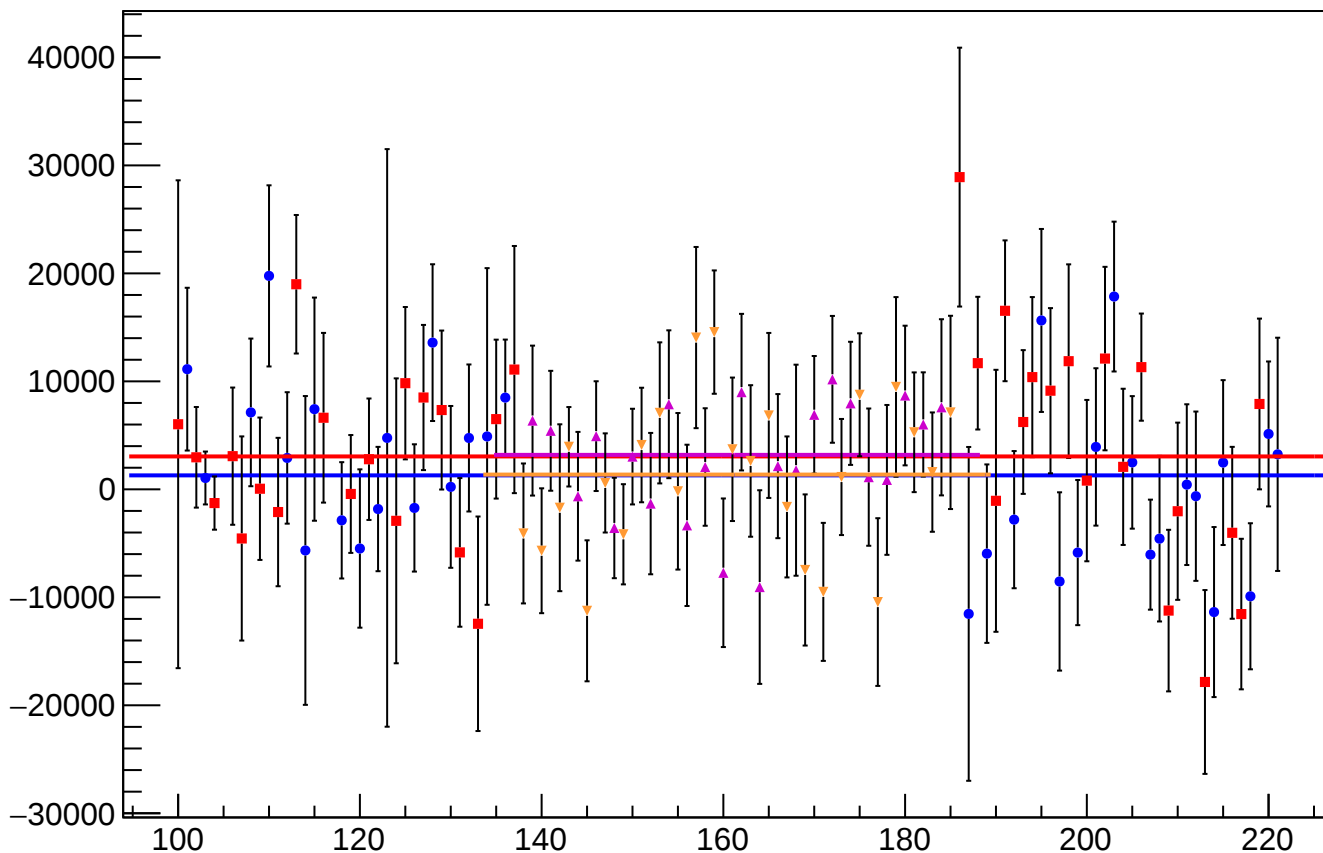
Right: 1883.618+/-0.426 χ^2/NDF : 30845781.6/35

In: 1314.140+/-0.457 χ^2/NDF : 17436987.6/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1883.618+/-0.426 χ^2/NDF : 30845781.6/35

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1292.288+/-1112.473 χ^2/NDF : 36.6/34

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3046.477+/-1086.859 χ^2/NDF : 51.7/36

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

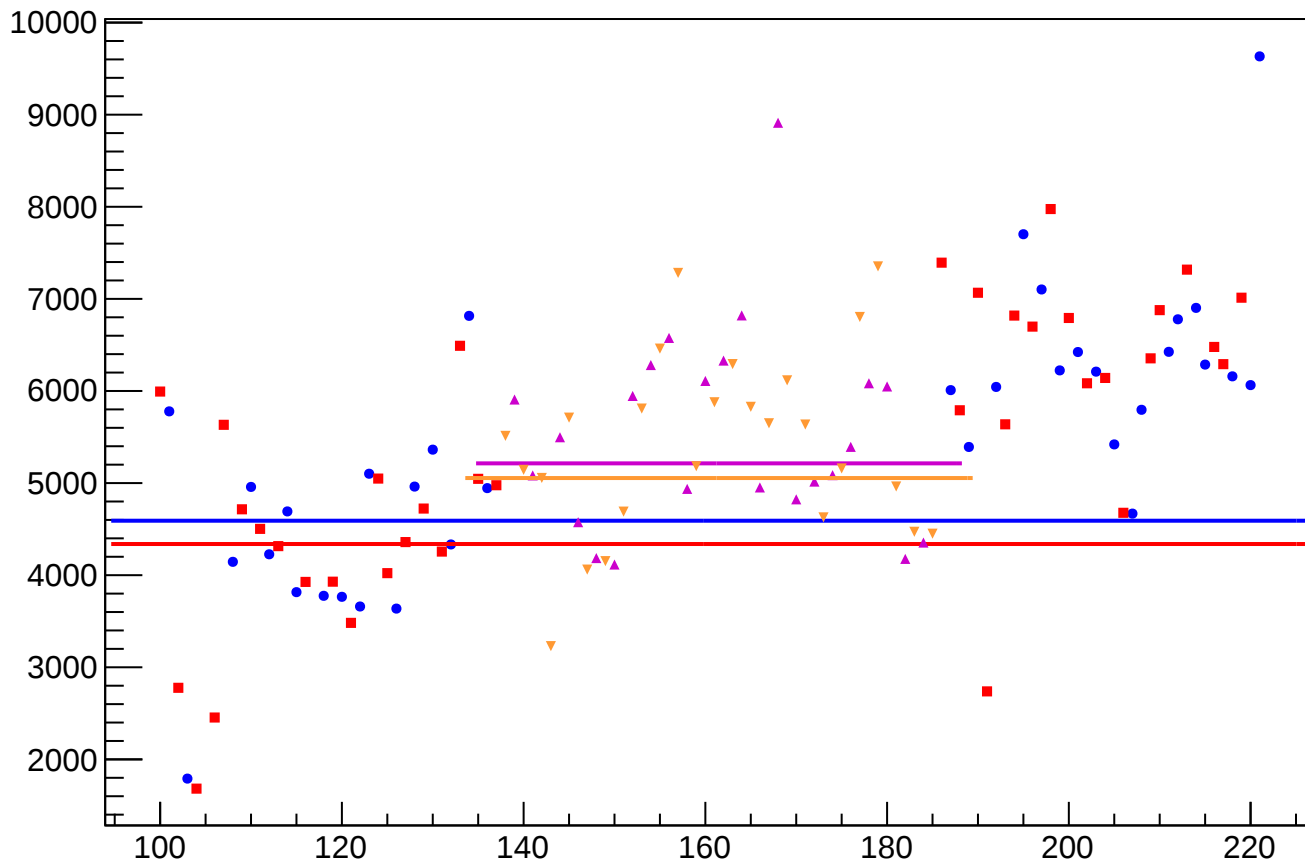
Right: 2189.809+/-777.423 χ^2/NDF : 89.5/71

In: 2116.702+/-836.828 χ^2/NDF : 51.8/57

Out: 2293.097+/-807.450 χ^2/NDF : 80.7/61

All: 2208.050+/-581.062 χ^2/NDF : 132.6/119

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4591.400+/-0.787 χ^2/NDF : 5172484.0/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4338.425+/-0.764 χ^2/NDF : 5872153.3/36

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

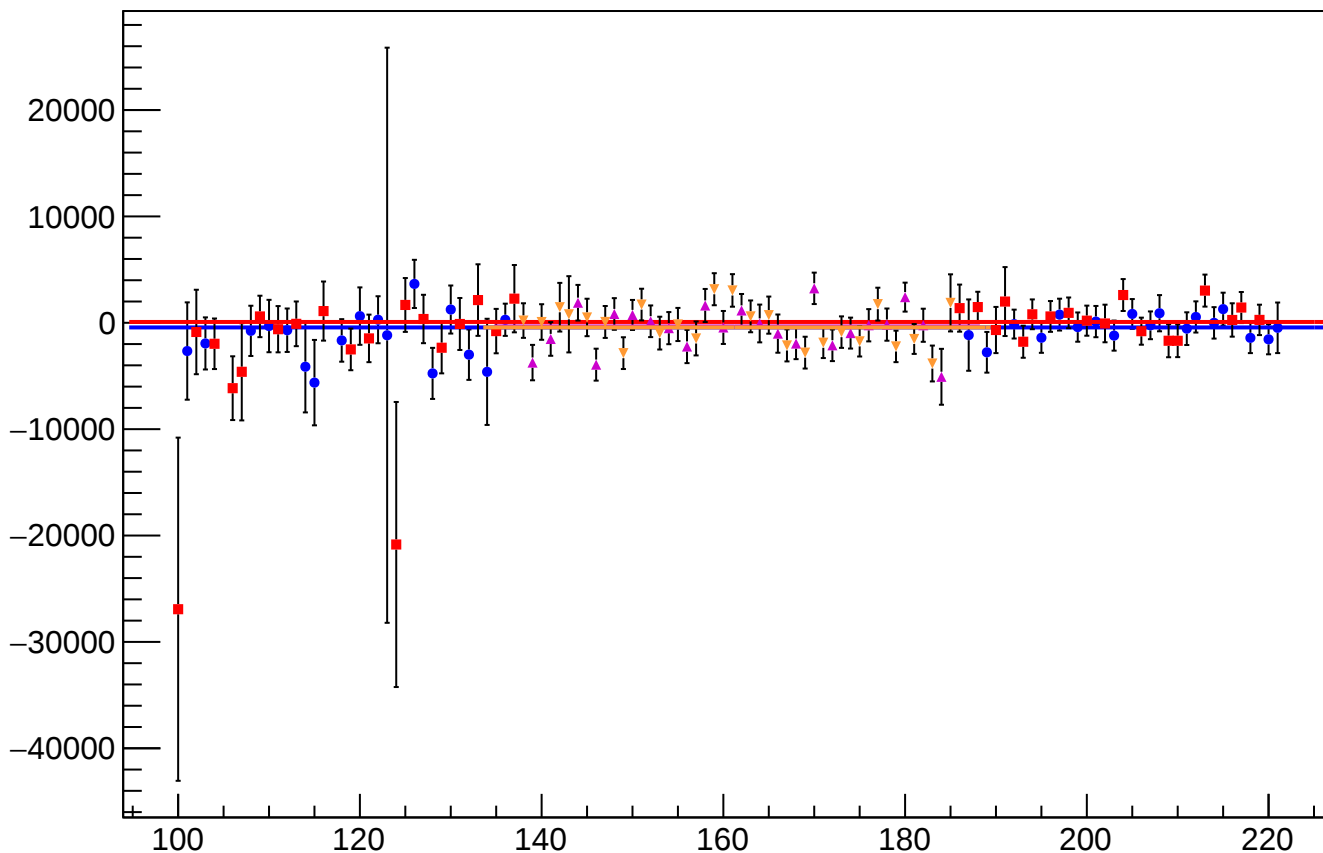
Right: 4461.246+/-0.548 χ^2/NDF : 11097848.3/71

In: 4861.756+/-0.592 χ^2/NDF : 6497062.7/57

Out: 4657.346+/-0.569 χ^2/NDF : 7700596.6/61

All: 4755.578+/-0.410 χ^2/NDF : 14259646.4/131

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -436.629+/-309.422 χ^2/NDF : 20.3/34

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 77.915+/-312.531 χ^2/NDF : 31.1/36

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

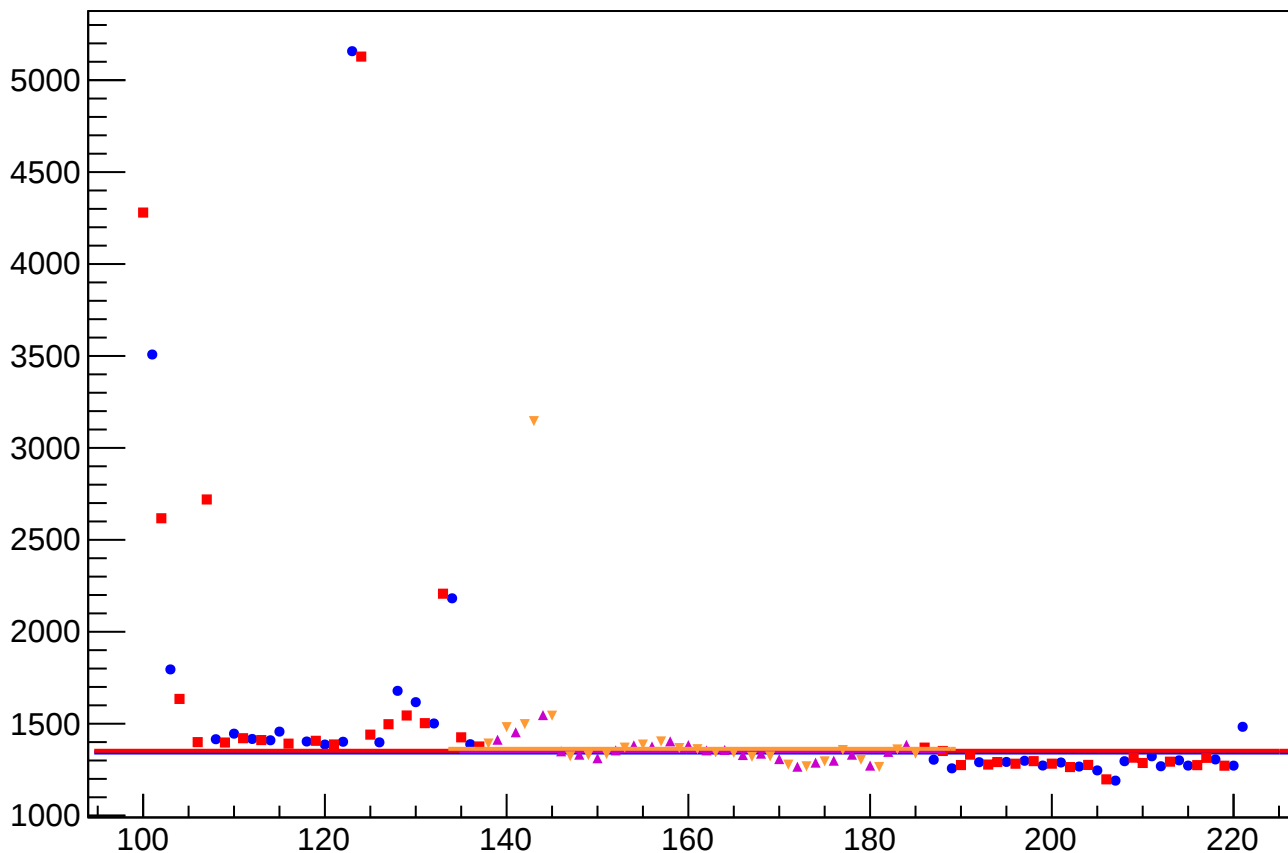
Right: -181.929+/-219.885 χ^2/NDF : 52.8/71

In: -392.372+/-223.892 χ^2/NDF :54.2/57

Out: -170.454+/-223.771 χ^2/NDF :65.5/61

All: -281.353+/-158.273 χ^2/NDF : 120.1/119

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1343.338+/-0.219 χ^2/NDF : 795291.2/34

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1352.862+/-0.221 χ^2/NDF : 889458.3/36

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

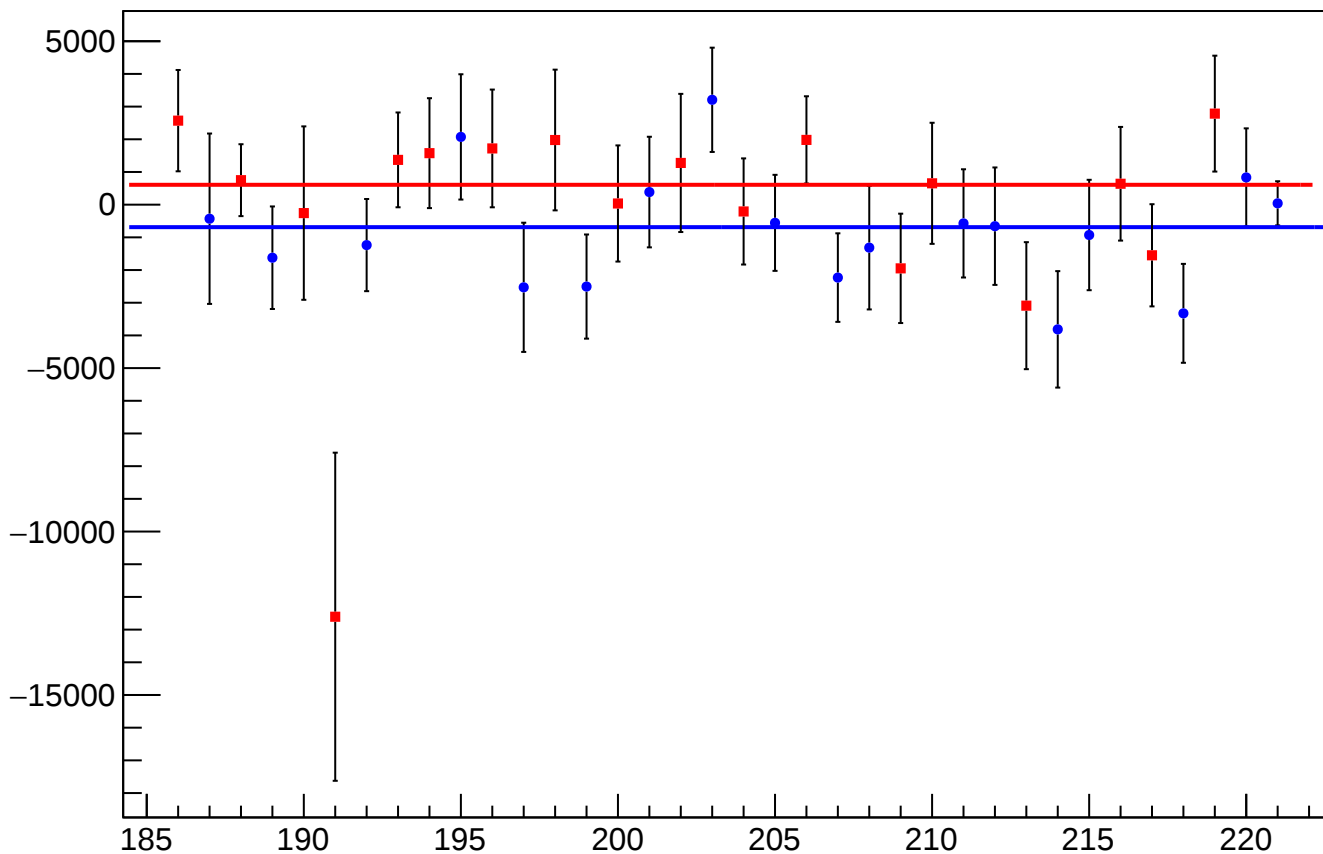
Right: 1348.052+/-0.155 χ^2/NDF : 1685687.4/71

In: 1346.945+/-0.158 χ^2/NDF : 863006.2/57

Out: 1358.076+/-0.158 χ^2/NDF : 1465827.3/61

All: 1352.513+/-0.112 χ^2/NDF : 2331306.7/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -687.993+/-344.549 χ^2/NDF : 20.9/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 607.770+/-400.571 χ^2/NDF : 20.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

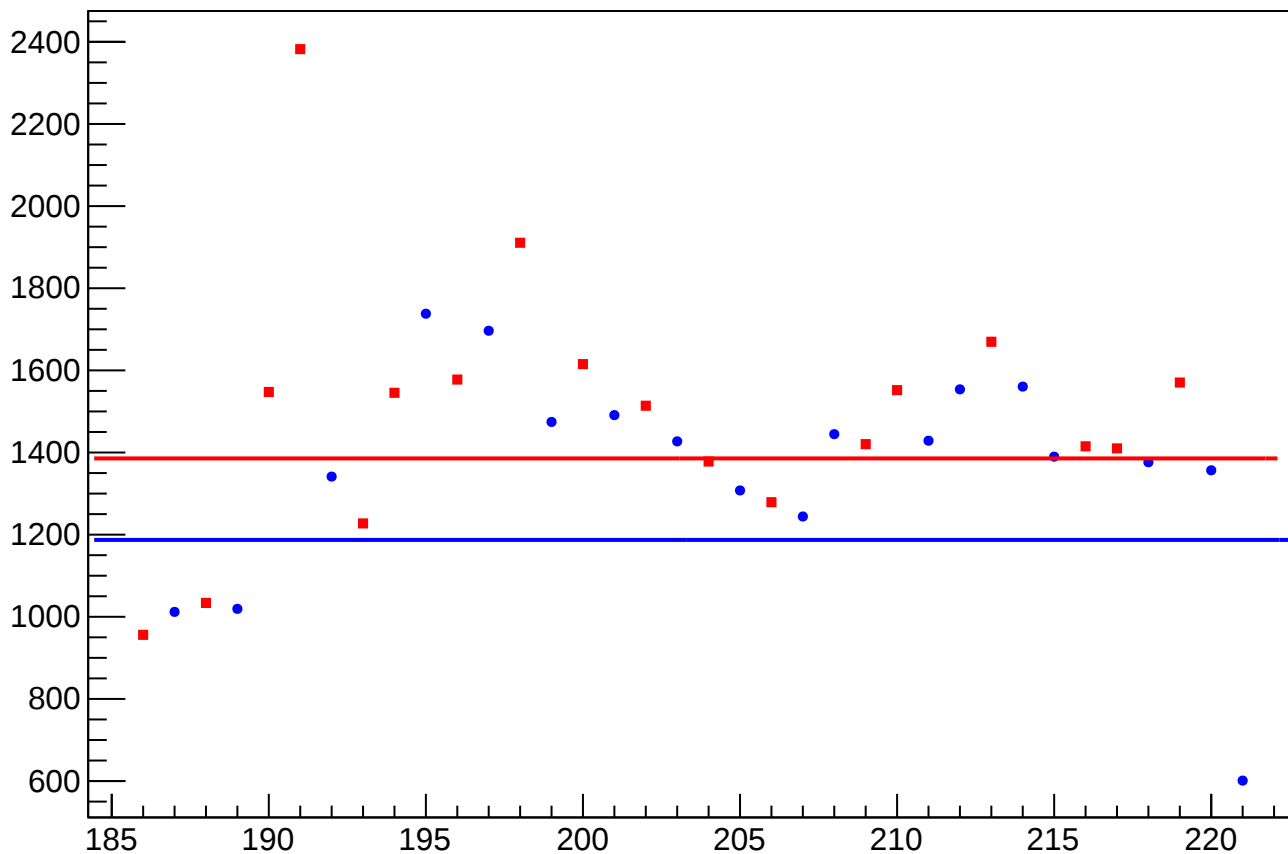
Right: -136.987+/-261.213 χ^2/NDF : 47.8/35

In: -687.993+/-344.549 χ^2/NDF : 20.9/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -136.987+/-261.213 χ^2/NDF : 47.8/35

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1187.183+/-0.244 χ^2/NDF : 2388302.5/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1385.636+/-0.283 χ^2/NDF : 764515.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

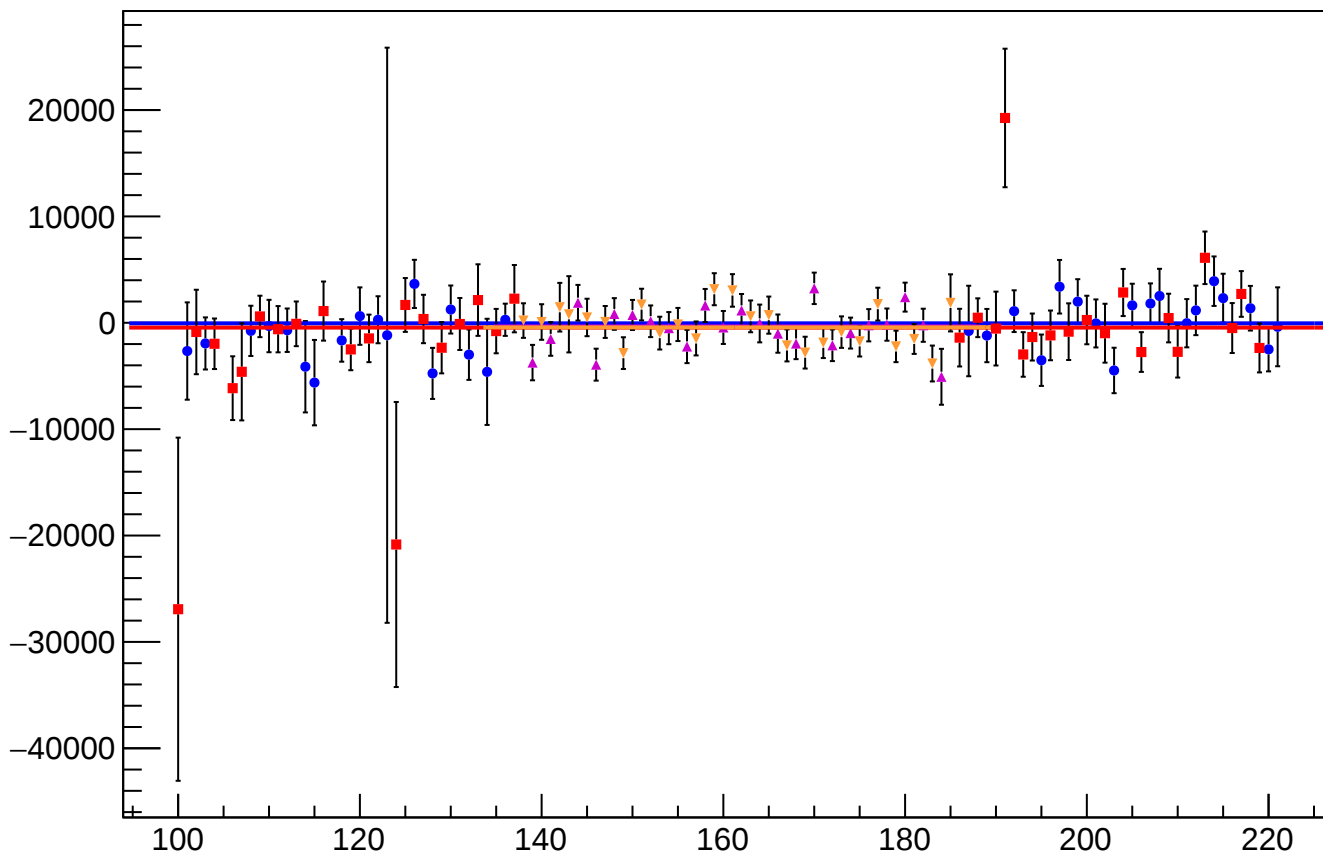
Right: 1271.572+/-0.185 χ^2/NDF : 3434963.6/35

In: 1187.183+/-0.244 χ^2/NDF : 2388302.5/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1271.572+/-0.185 χ^2/NDF : 3434963.6/35

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -51.927+/-403.862 χ^2/NDF : 32.5/34

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -451.069+/-407.051 χ^2/NDF : 40.7/36

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

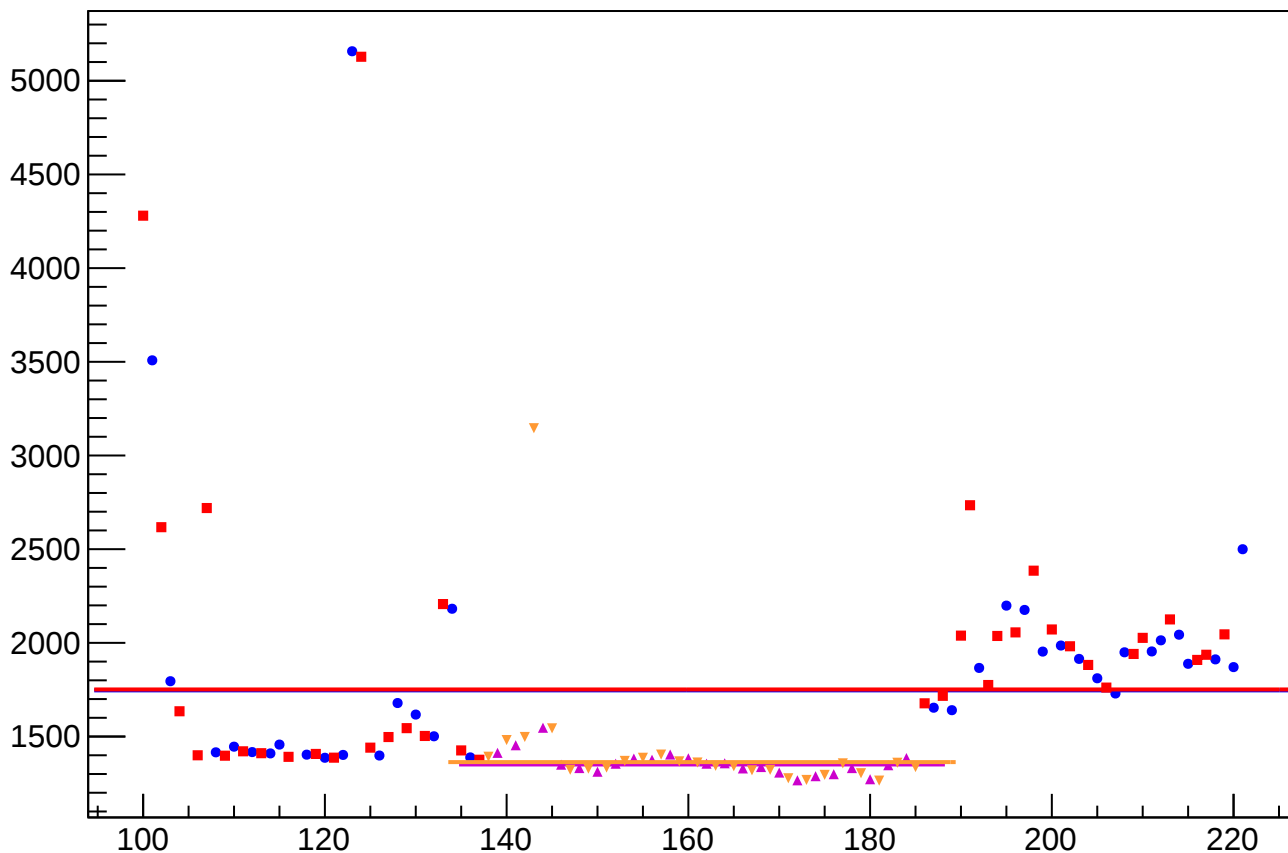
Right: -249.928+/-286.694 χ^2/NDF : 73.7/71

In: -229.311+/-252.898 χ^2/NDF : 66.6/57

Out: -439.123+/-251.832 χ^2/NDF : 73.8/61

All: -334.660+/-178.448 χ^2/NDF : 140.7/119

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1746.410 ± 0.286 $\chi^2/\text{NDF}: 1213984.4/34$

Left Out: 1363.561 ± 0.227 $\chi^2/\text{NDF}: 575226.6/24$

Right Out: 1751.263 ± 0.288 $\chi^2/\text{NDF}: 1354887.0/36$

Left In: 1350.909 ± 0.229 $\chi^2/\text{NDF}: 67144.5/22$

Left: 1357.310 ± 0.161 $\chi^2/\text{NDF}: 643910.7/47$

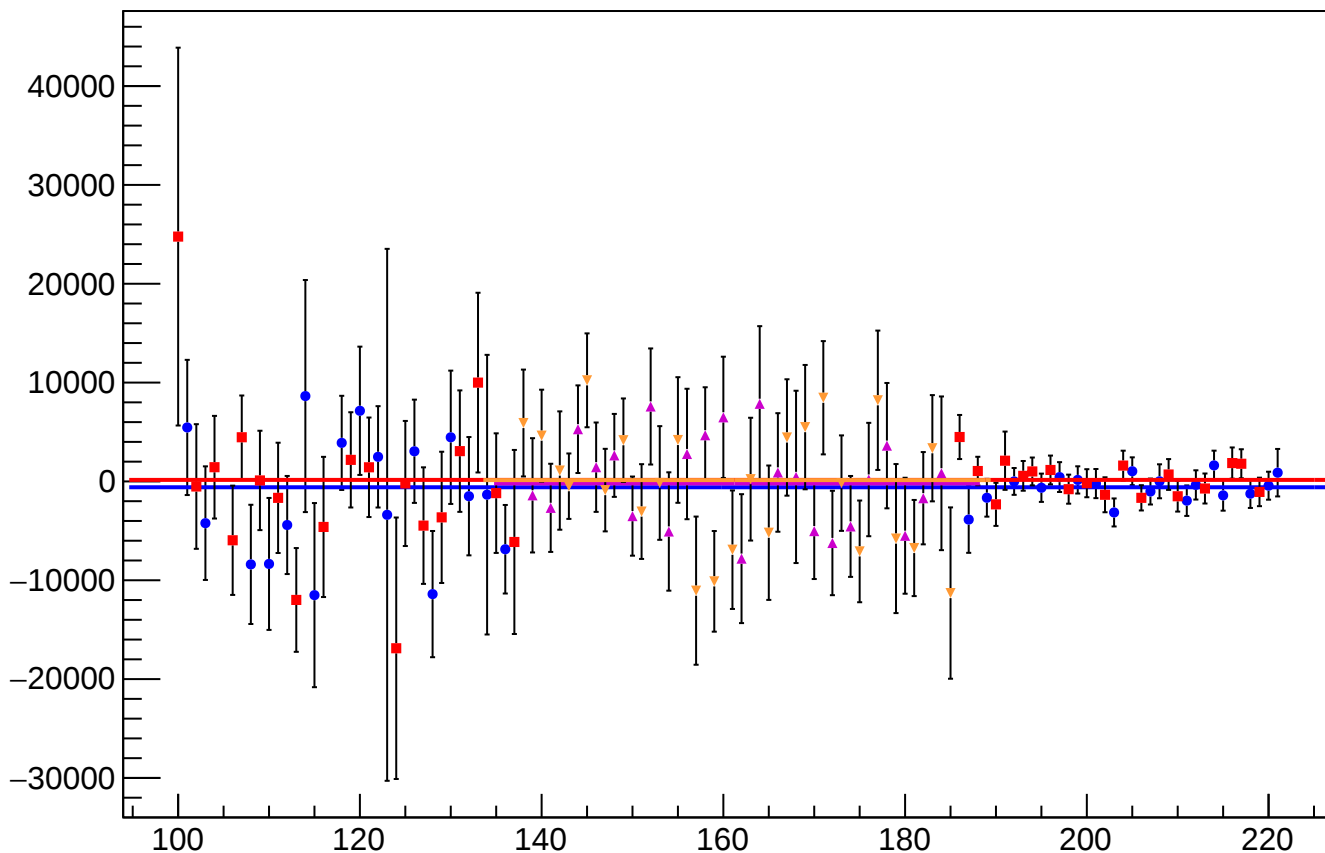
Right: 1748.818 ± 0.203 $\chi^2/\text{NDF}: 2569014.7/71$

In: 1505.995 ± 0.179 $\chi^2/\text{NDF}: 2447064.5/57$

Out: 1511.958 ± 0.178 $\chi^2/\text{NDF}: 3050035.7/61$

All: 1508.989 ± 0.126 $\chi^2/\text{NDF}: 5497658.4/11$

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -590.544 ± 351.916 χ^2/NDF : 26.3/34

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 154.313 ± 355.975 χ^2/NDF : 30.3/36

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

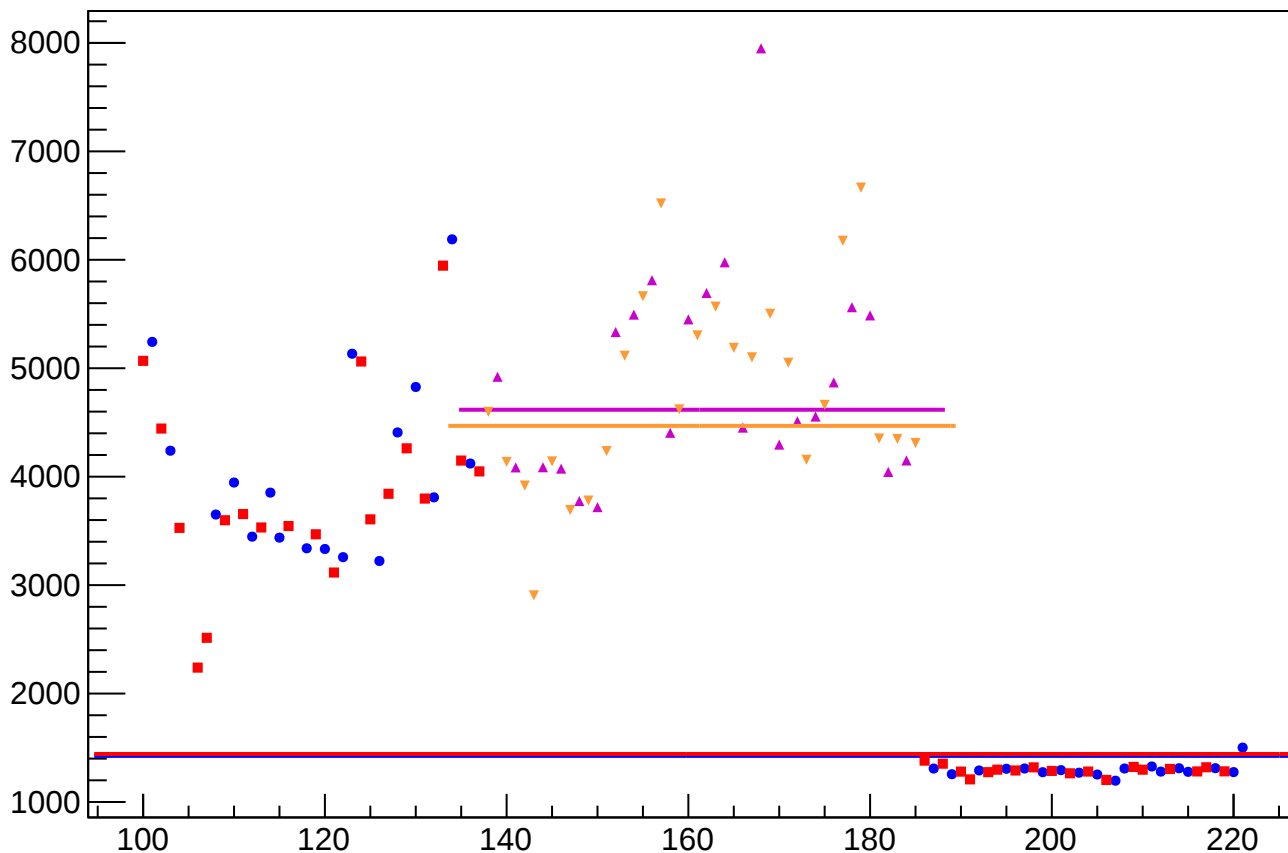
Right: -222.387 ± 250.265 χ^2/NDF : 58.8/71

In: -555.666 ± 335.826 χ^2/NDF : 41.2/57

Out: 152.087 ± 337.632 χ^2/NDF : 58.4/61

All: -203.687 ± 238.101 χ^2/NDF : 101.8/119

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1425.244+/-0.249 χ^2/NDF : 5732639.3/34

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 1442.718+/-0.252 χ^2/NDF : 5553591.2/36

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

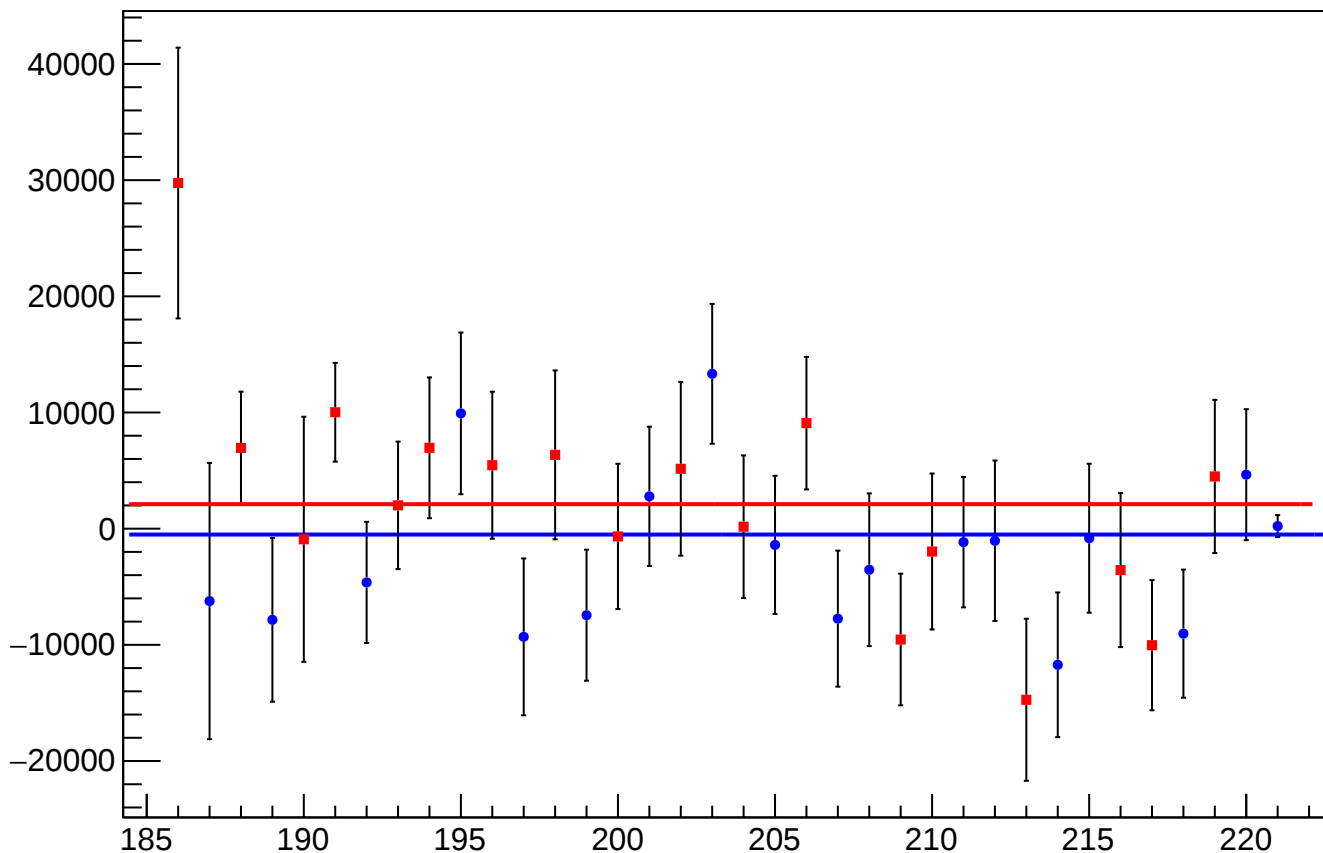
Right: 1433.886+/-0.177 χ^2/NDF : 11288669.3/71

In: 1710.446+/-0.237 χ^2/NDF : 21434231.2/57

Out: 1746.181+/-0.239 χ^2/NDF : 21444310.0/61

All: 1728.227+/-0.168 χ^2/NDF : 42889809.7/13

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -505.657+/-800.411 χ^2/NDF : 21.8/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 2108.431+/-1457.121 χ^2/NDF : 29.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

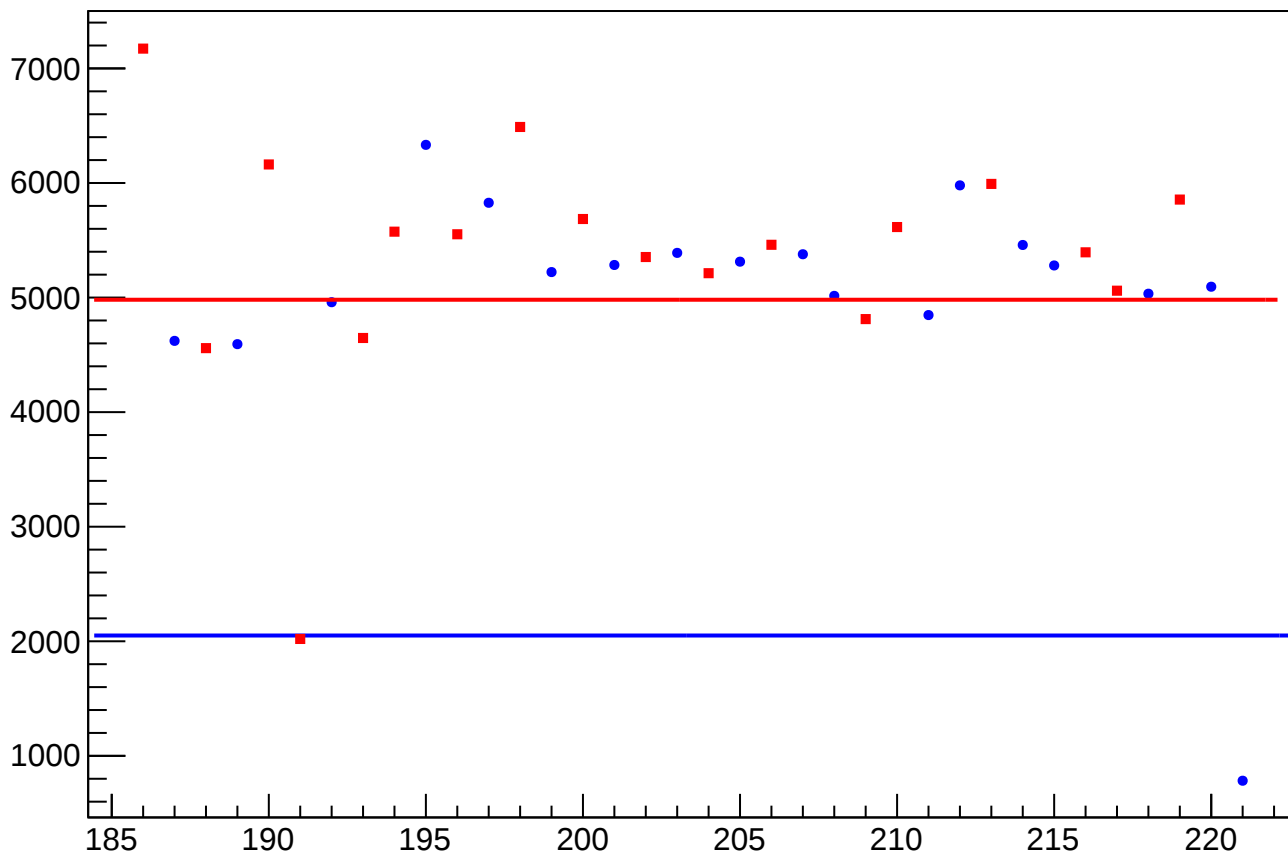
Right: 100.284+/-701.537 χ^2/NDF : 53.7/35

In: -505.657+/-800.411 χ^2/NDF : 21.8/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 100.284+/-701.537 χ^2/NDF : 53.7/35

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Right: 2729.646+/-0.496 χ^2 /NDF: 20440467.1/35

In: 2050.321+/-0.566 χ^2 /NDF:12862178.6/17

Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

All: 2729.646+/-0.496 χ^2 /NDF: 20440467.1/35

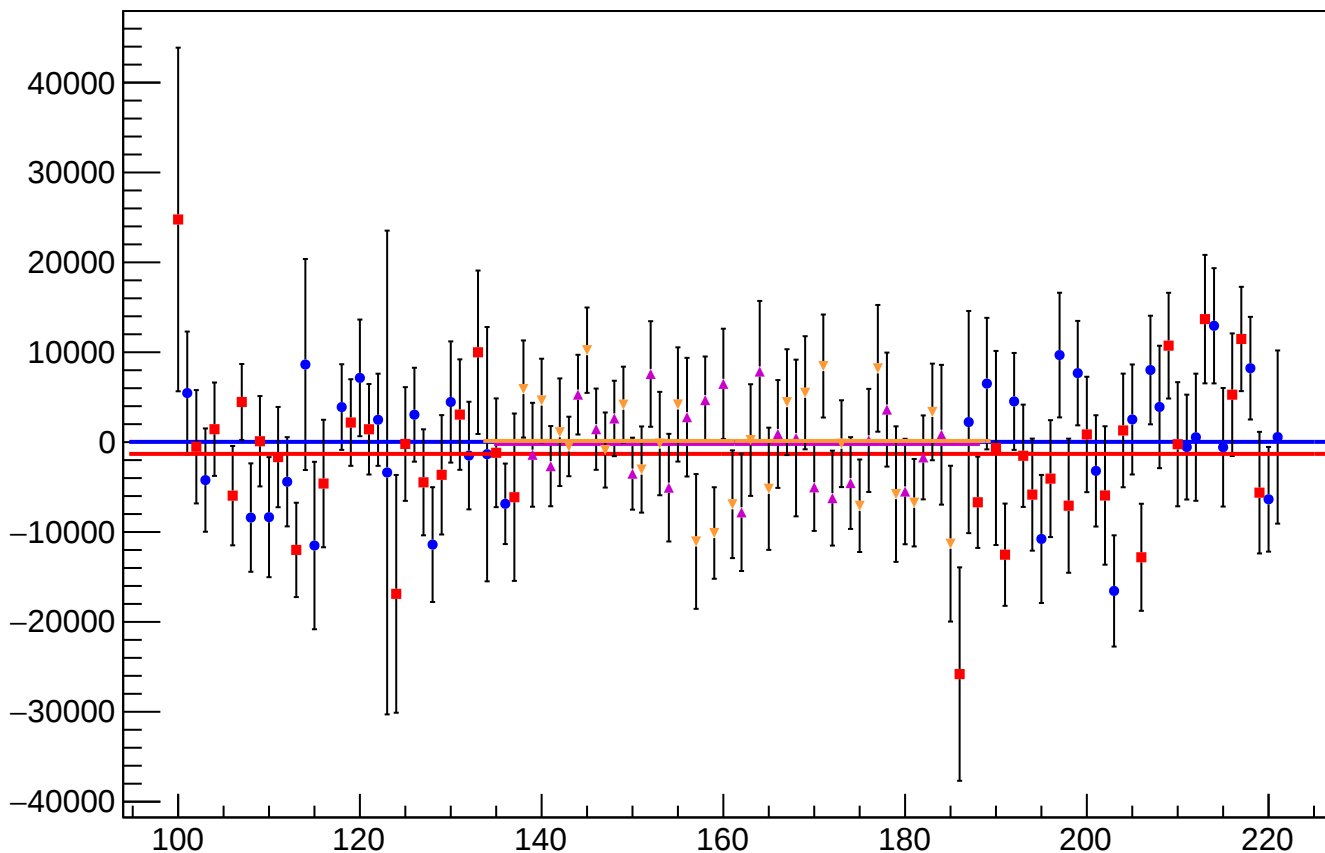
Right In: 2050.321+/-0.566 χ^2 /NDF: 12862178.6/17

Left Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

Right Out: 4980.991+/-1.030 χ^2 /NDF: 1363189.8/17

Left In: 0.000+/-0.000 χ^2 /NDF:0.0/0

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 30.214 ± 1078.709 $\chi^2/\text{NDF}: 40.6/34$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1307.215 ± 1029.155 $\chi^2/\text{NDF}: 43.9/36$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

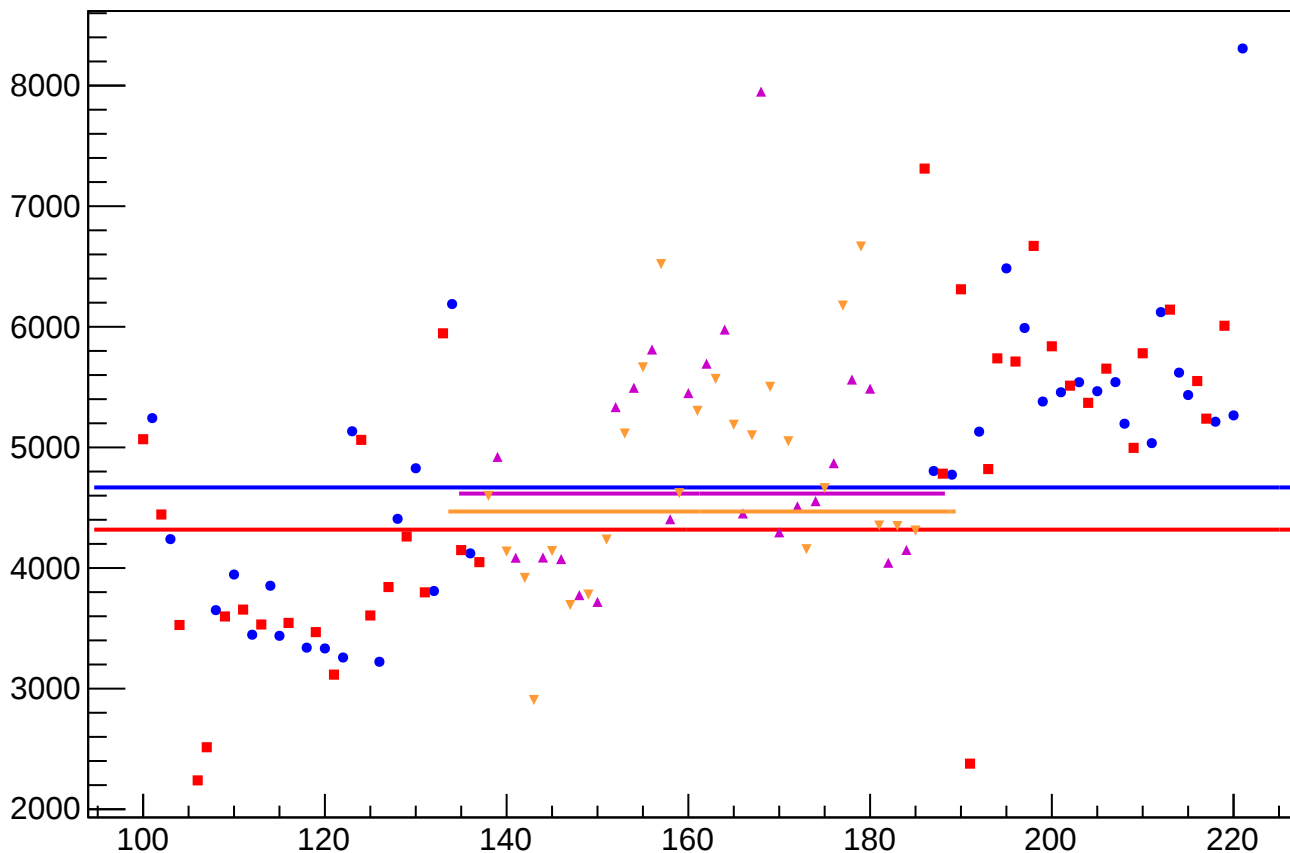
Right: -669.925 ± 744.625 $\chi^2/\text{NDF}: 85.3/71$

In: -80.300 ± 778.115 $\chi^2/\text{NDF}: 55.4/57$

Out: -612.533 ± 740.252 $\chi^2/\text{NDF}: 73.0/61$

All: -359.680 ± 536.323 $\chi^2/\text{NDF}: 128.6/119$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4668.180+/-0.763

χ^2/NDF : 1811544.3/34

Left: 4538.970+/-0.547

χ^2/NDF : 2398663.8/47

Left Out: 4468.520+/-0.753

χ^2/NDF : 1380601.0/24

Right: 4484.129+/-0.525

χ^2/NDF : 4802131.9/71

Right Out: 4318.301+/-0.724

χ^2/NDF : 2879902.2/36

In: 4643.771+/-0.550

χ^2/NDF : 2813279.1/57

Out: 4390.418+/-0.522

χ^2/NDF : 4281170.1/61

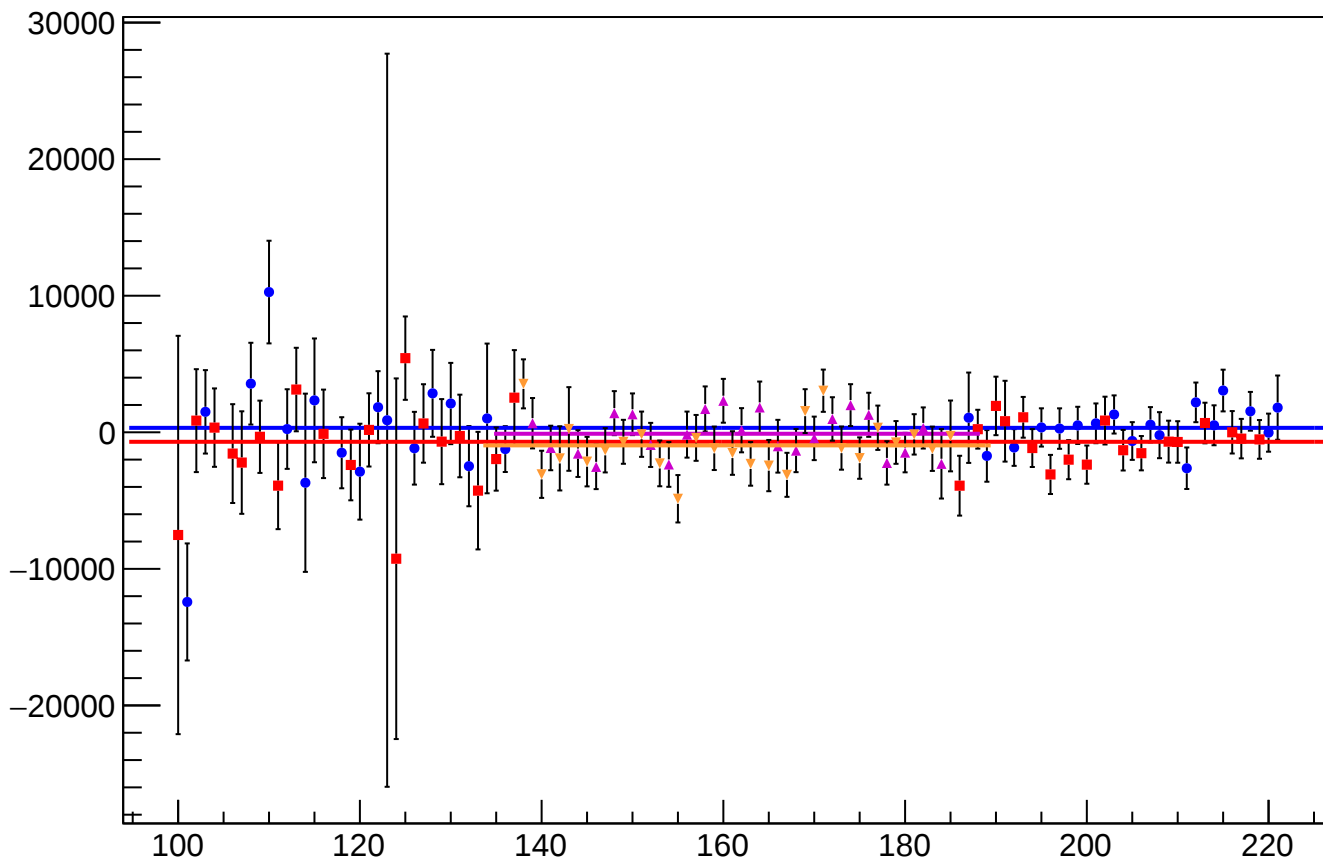
Left In: 4617.293+/-0.794

χ^2/NDF : 999599.8/22

All: 4510.446+/-0.379

χ^2/NDF : 7206029.9/11

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 325.497 ± 321.915 χ^2/NDF : 35.9/34

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -695.818 ± 325.305 χ^2/NDF : 23.9/36

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

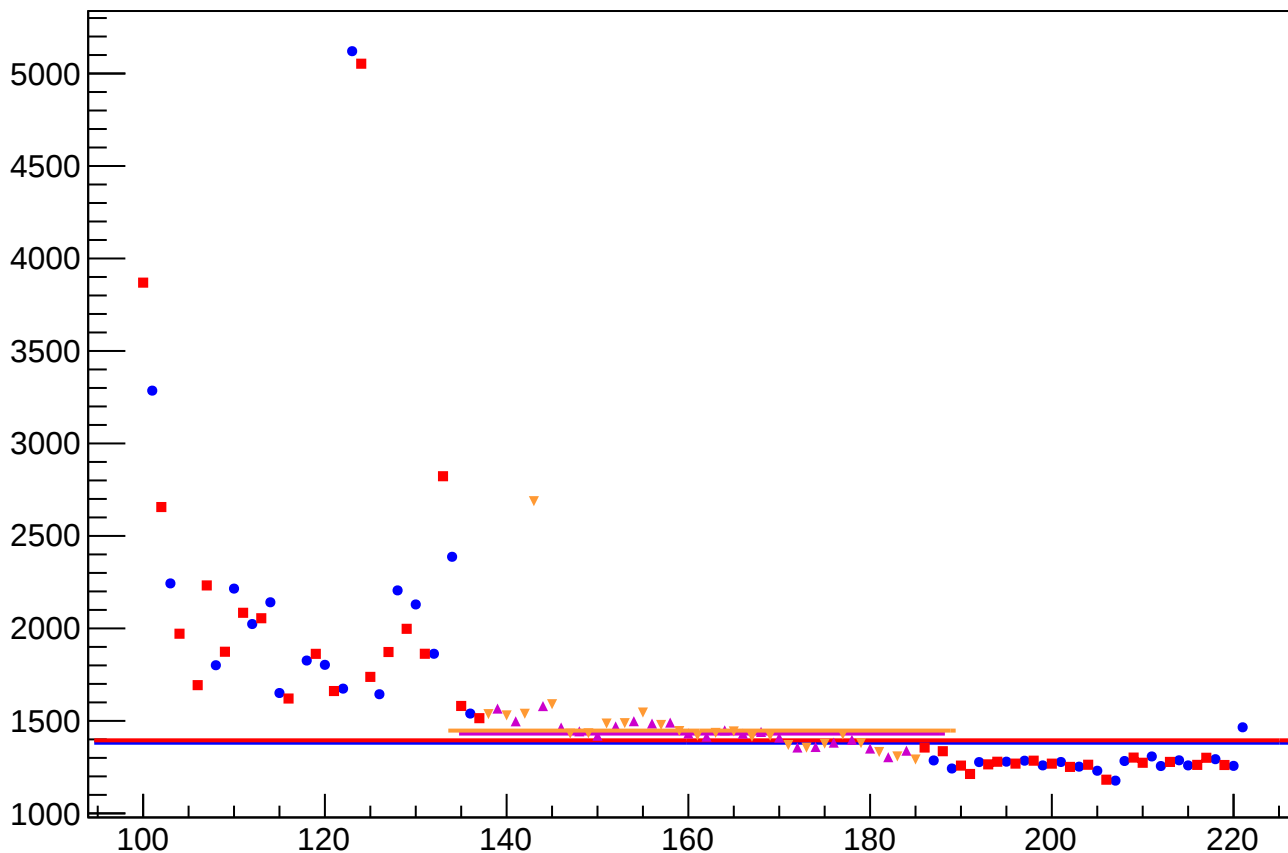
Right: -179.811 ± 228.818 χ^2/NDF : 64.8/71

In: 123.126 ± 234.941 χ^2/NDF : 56.2/57

Out: -821.511 ± 234.882 χ^2/NDF : 52.7/61

All: -349.310 ± 166.107 χ^2/NDF : 117.0/119

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1381.976 $\pm$ 0.228 χ^2 /NDF: 1627312.9/34

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1394.936 $\pm$ 0.230 χ^2 /NDF: 1667204.3/36

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

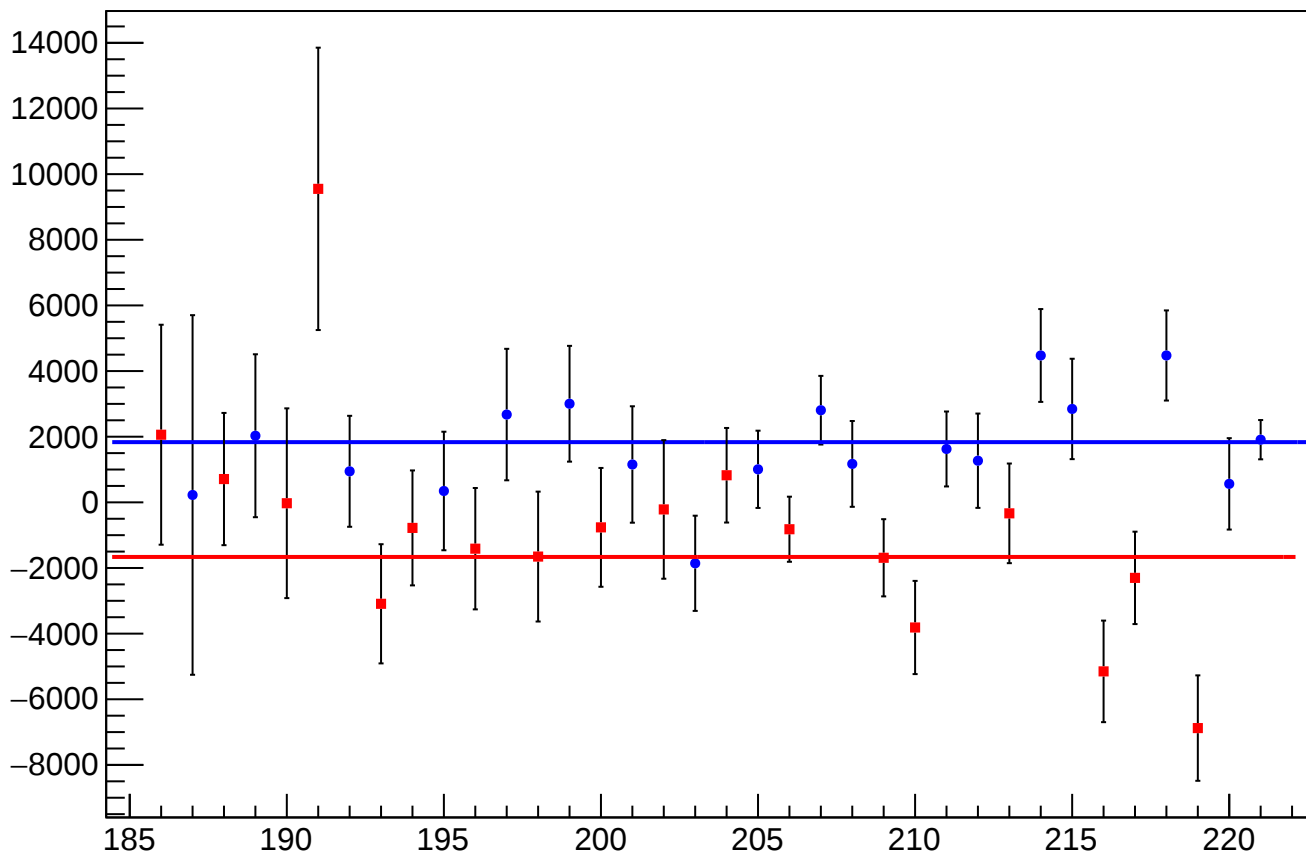
Right: 1388.388 $\pm$ 0.162 χ^2 /NDF: 3296120.8/71

In: 1405.101 $\pm$ 0.166 χ^2 /NDF: 1724525.7/57

Out: 1420.122 $\pm$ 0.166 χ^2 /NDF: 2111506.4/61

All: 1412.613 $\pm$ 0.117 χ^2 /NDF: 3840121.1/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1834.533+/-309.258 χ^2/NDF : 18.6/17

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: -1663.563+/-386.983 χ^2/NDF : 33.9/17

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

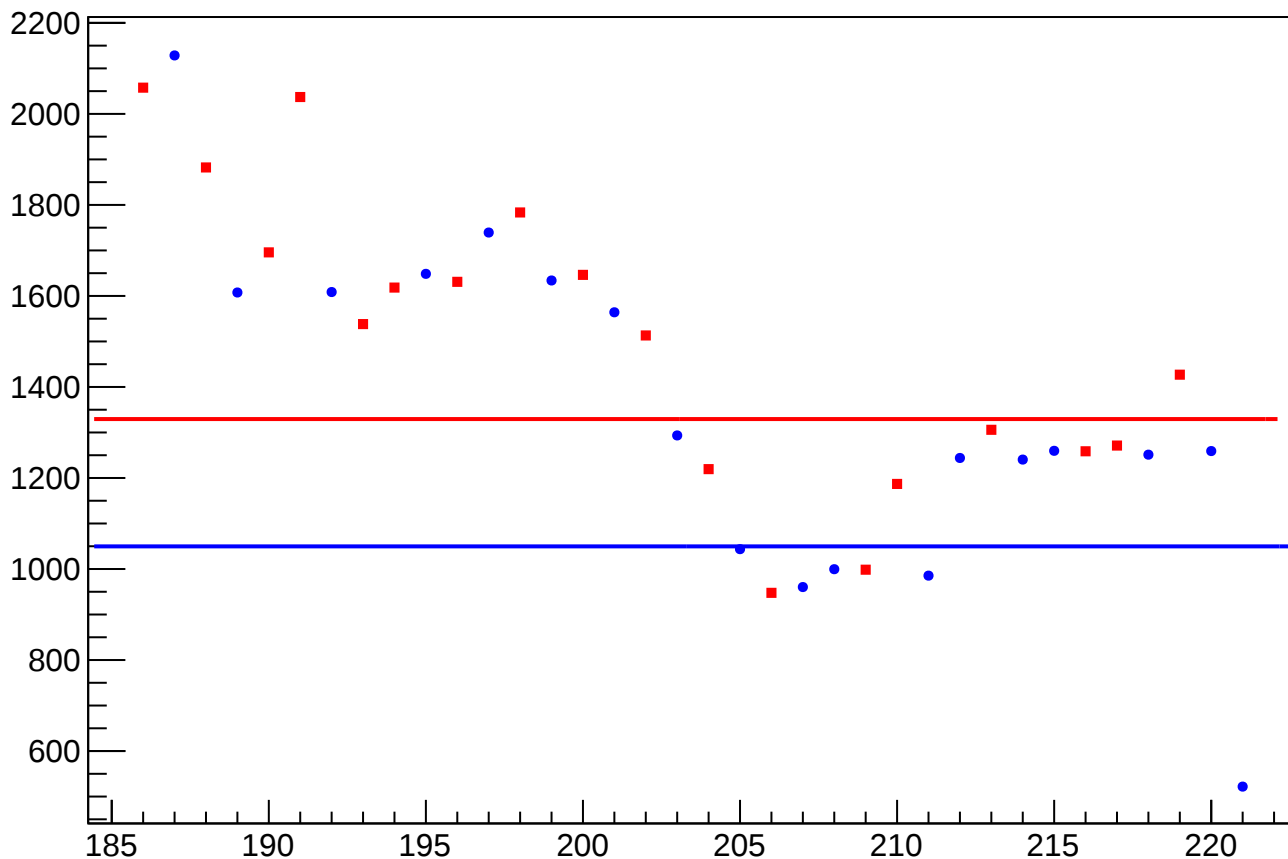
Right: 471.186+/-241.590 χ^2/NDF : 102.4/35

In: 1834.533+/-309.258 χ^2/NDF :18.6/17

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 471.186+/-241.590 χ^2/NDF : 102.4/35

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1049.720+/-0.219 χ^2/NDF : 3077456.9/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1329.469+/-0.274 χ^2/NDF : 1149213.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

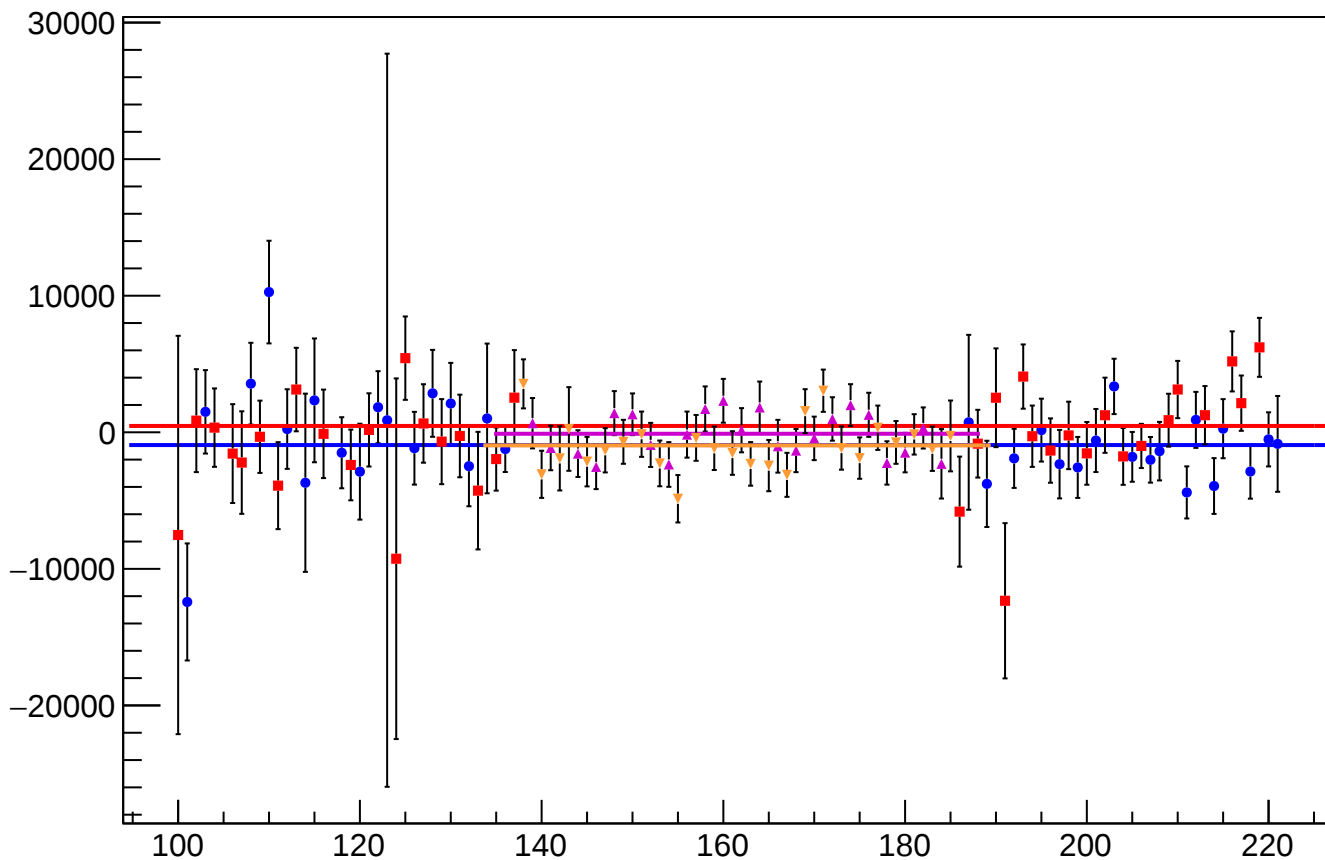
Right: 1158.749+/-0.171 χ^2/NDF : 4864489.1/35

In: 1049.720+/-0.219 χ^2/NDF : 3077456.9/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1158.749+/-0.171 χ^2/NDF : 4864489.1/35

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -935.026+/-425.854 χ^2/NDF : 39.1/34

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: 464.772+/-437.931 χ^2/NDF : 39.4/36

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

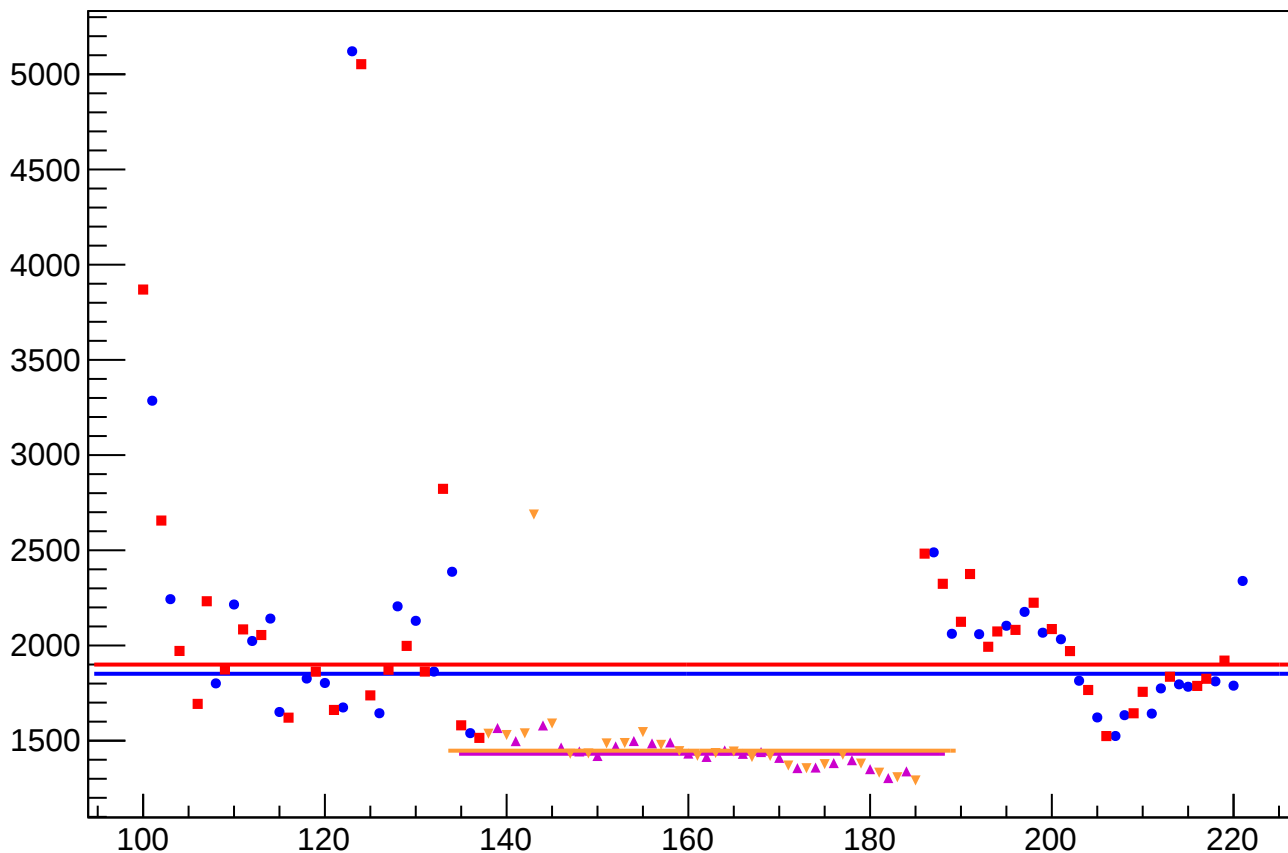
Right: -254.693+/-305.305 χ^2/NDF : 83.8/71

In: -433.880+/-267.440 χ^2/NDF : 60.9/57

Out: -424.173+/-268.313 χ^2/NDF : 74.6/61

All: -429.042+/-189.417 χ^2/NDF : 135.4/119

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1851.420+/-0.301 χ^2/NDF : 809693.1/34

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1899.760+/-0.310 χ^2/NDF : 828525.4/36

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

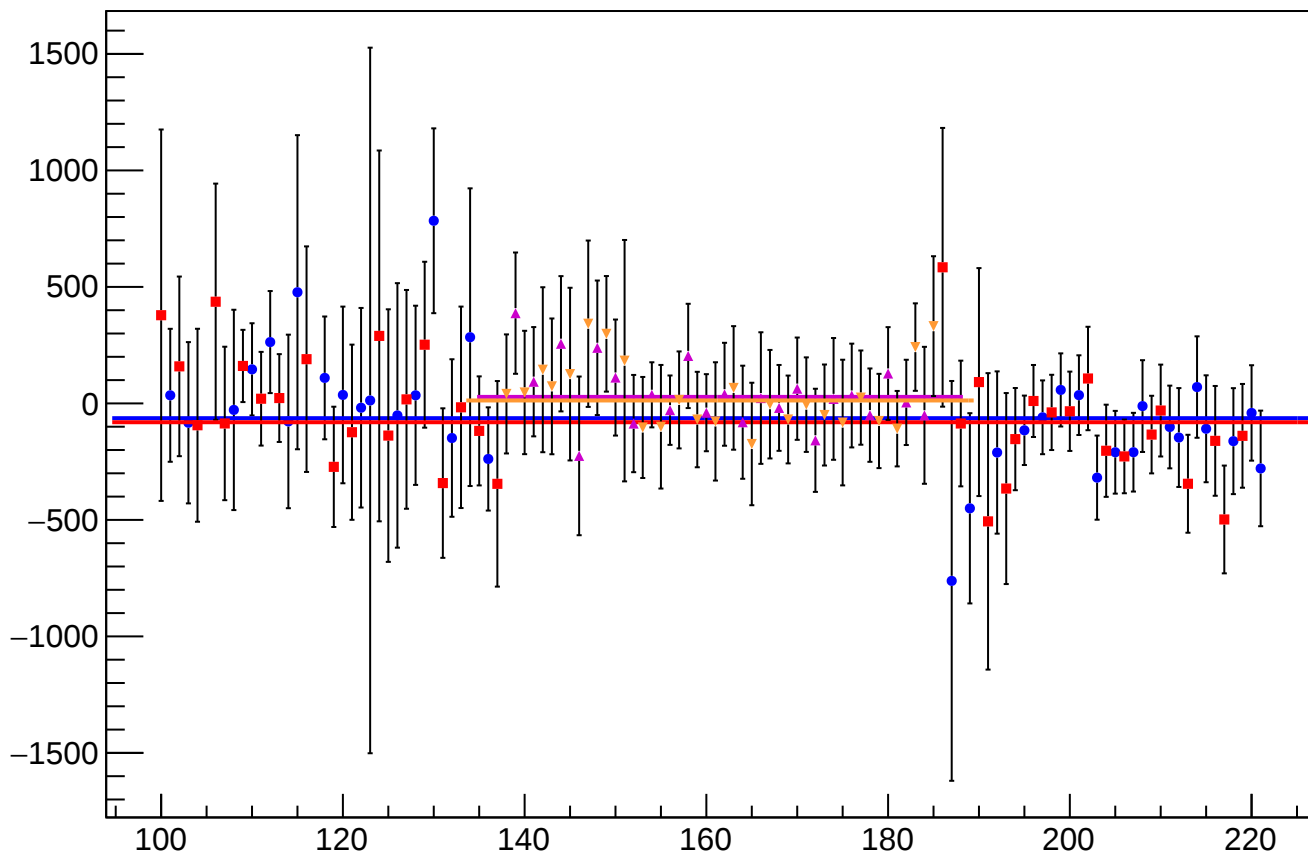
Right: 1874.915+/-0.216 χ^2/NDF : 1650743.5/71

In: 1597.088+/-0.189 χ^2/NDF : 2062764.9/57

Out: 1617.306+/-0.190 χ^2/NDF : 2579798.0/61

All: 1607.164+/-0.134 χ^2/NDF : 4648259.4/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.415 ± 40.526 $\chi^2/\text{NDF}: 18.1/34$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -80.794 ± 40.971 $\chi^2/\text{NDF}: 17.9/36$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

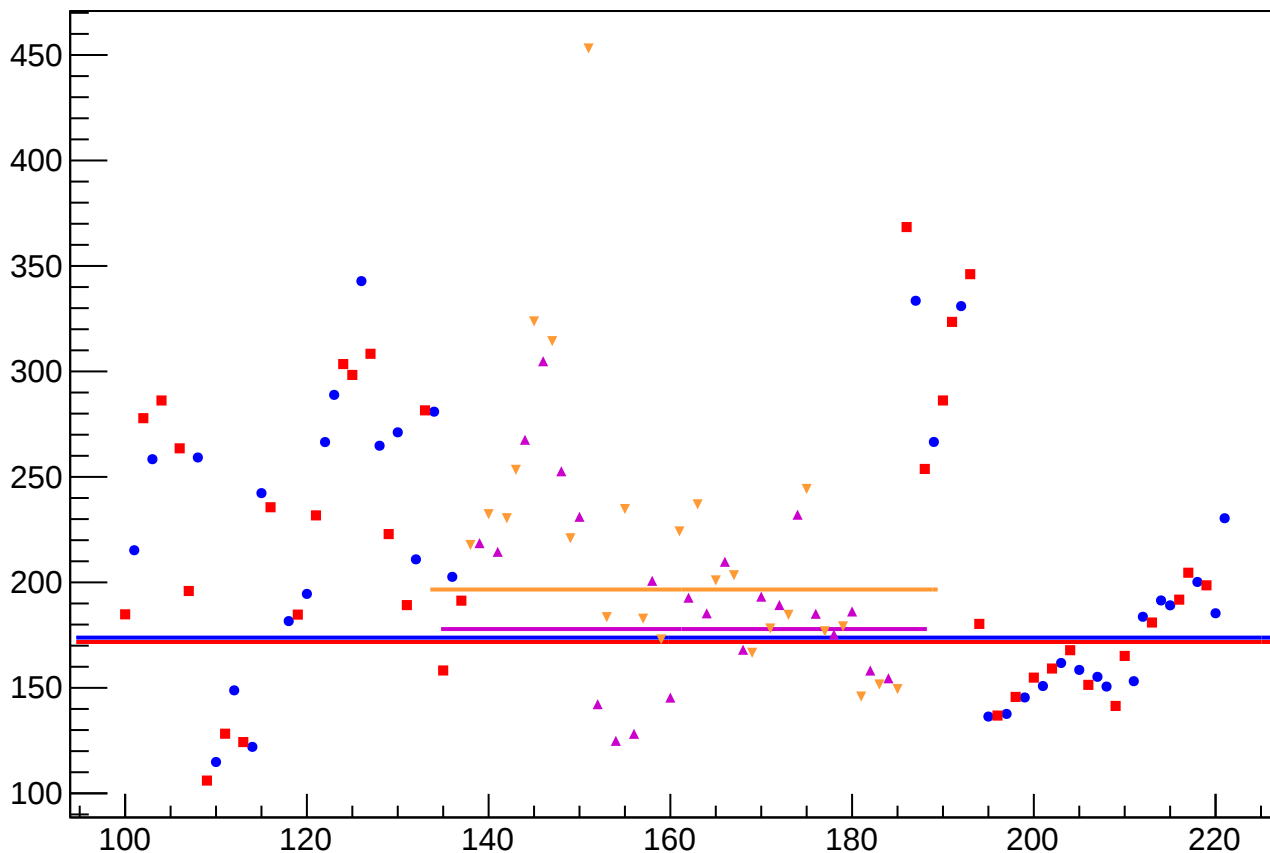
Right: -72.009 ± 28.812 $\chi^2/\text{NDF}: 36.1/71$

In: -22.030 ± 29.970 $\chi^2/\text{NDF}: 26.9/57$

Out: -40.931 ± 31.021 $\chi^2/\text{NDF}: 27.8/61$

All: -31.155 ± 21.554 $\chi^2/\text{NDF}: 54.9/119$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.825+/-0.029 χ^2/NDF : 2318189.8/34

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 171.751+/-0.029 χ^2/NDF : 2931118.7/36

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

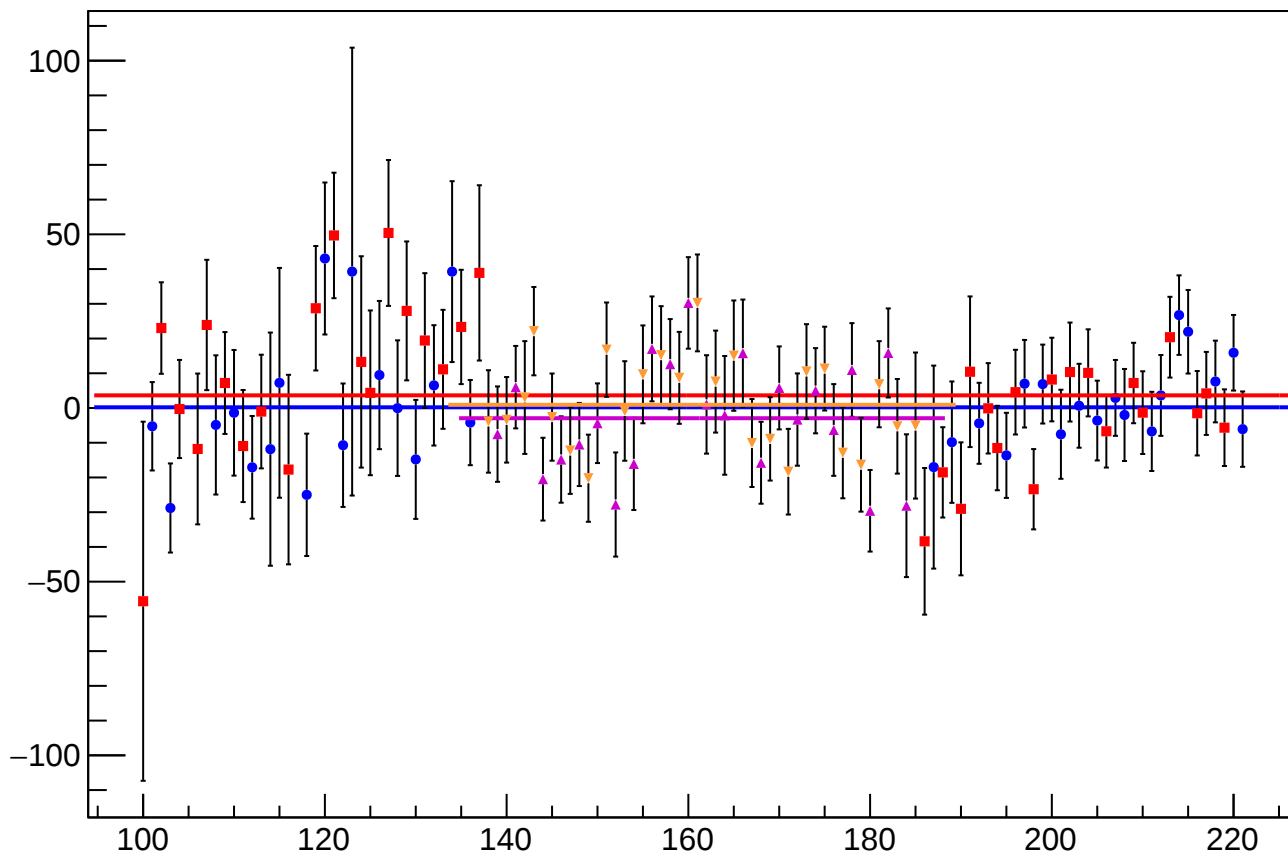
Right: 172.799+/-0.020 χ^2/NDF : 5251898.8/71

In: 175.661+/-0.021 χ^2/NDF :3971341.0/57

Out: 182.363+/-0.022 χ^2/NDF :5039086.1/61

All: 178.897+/-0.015 χ^2/NDF : 9058716.7/119

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.203 ± 2.401 $\chi^2/\text{NDF}: 32.2/34$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.643 ± 2.455 $\chi^2/\text{NDF}: 47.9/36$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

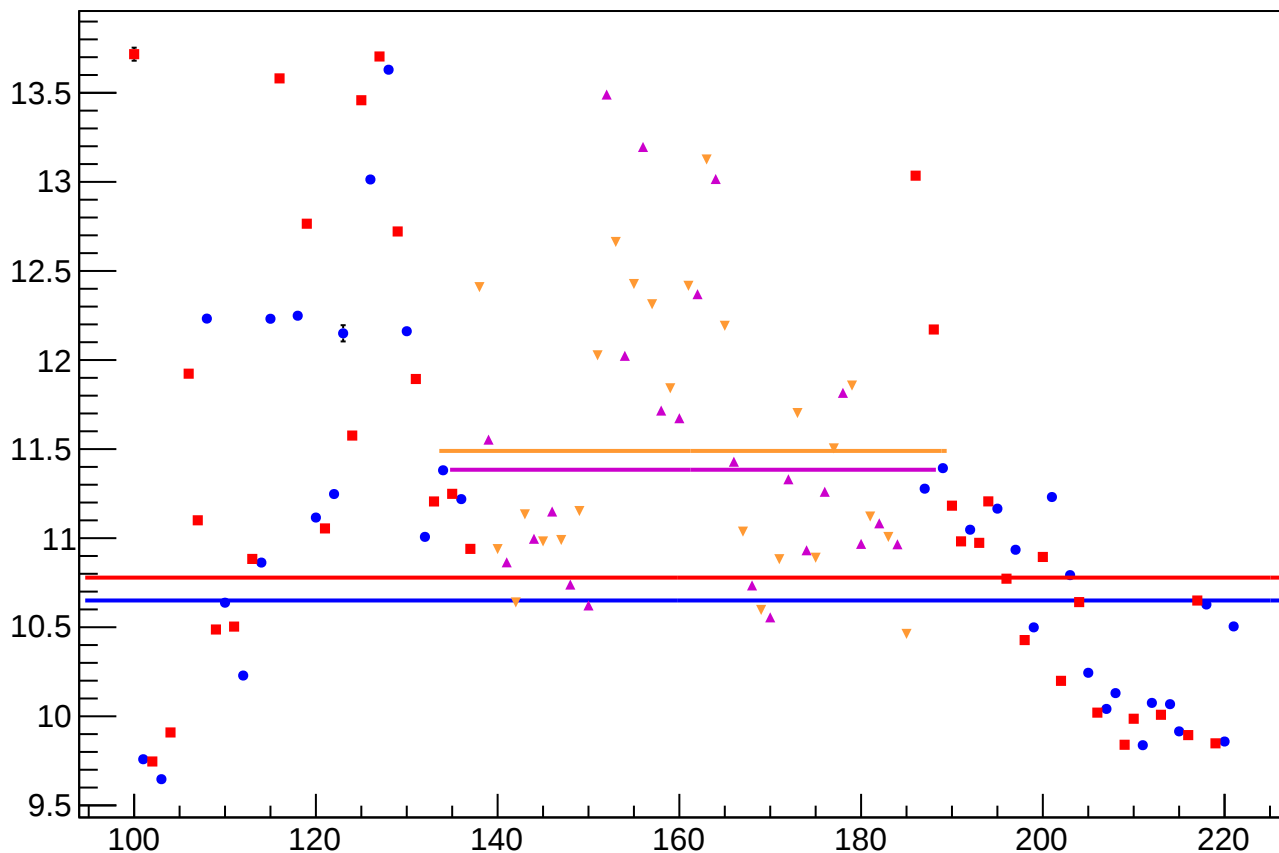
Right: 1.885 ± 1.716 $\chi^2/\text{NDF}: 81.1/71$

In: -1.160 ± 1.807 $\chi^2/\text{NDF}: 64.0/57$

Out: 2.409 ± 1.815 $\chi^2/\text{NDF}: 72.4/61$

All: 0.616 ± 1.281 $\chi^2/\text{NDF}: 138.4/119$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.650 $\pm$ 0.002 χ^2 /NDF: 221502.6/34

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.779 $\pm$ 0.002 χ^2 /NDF: 295894.3/36

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

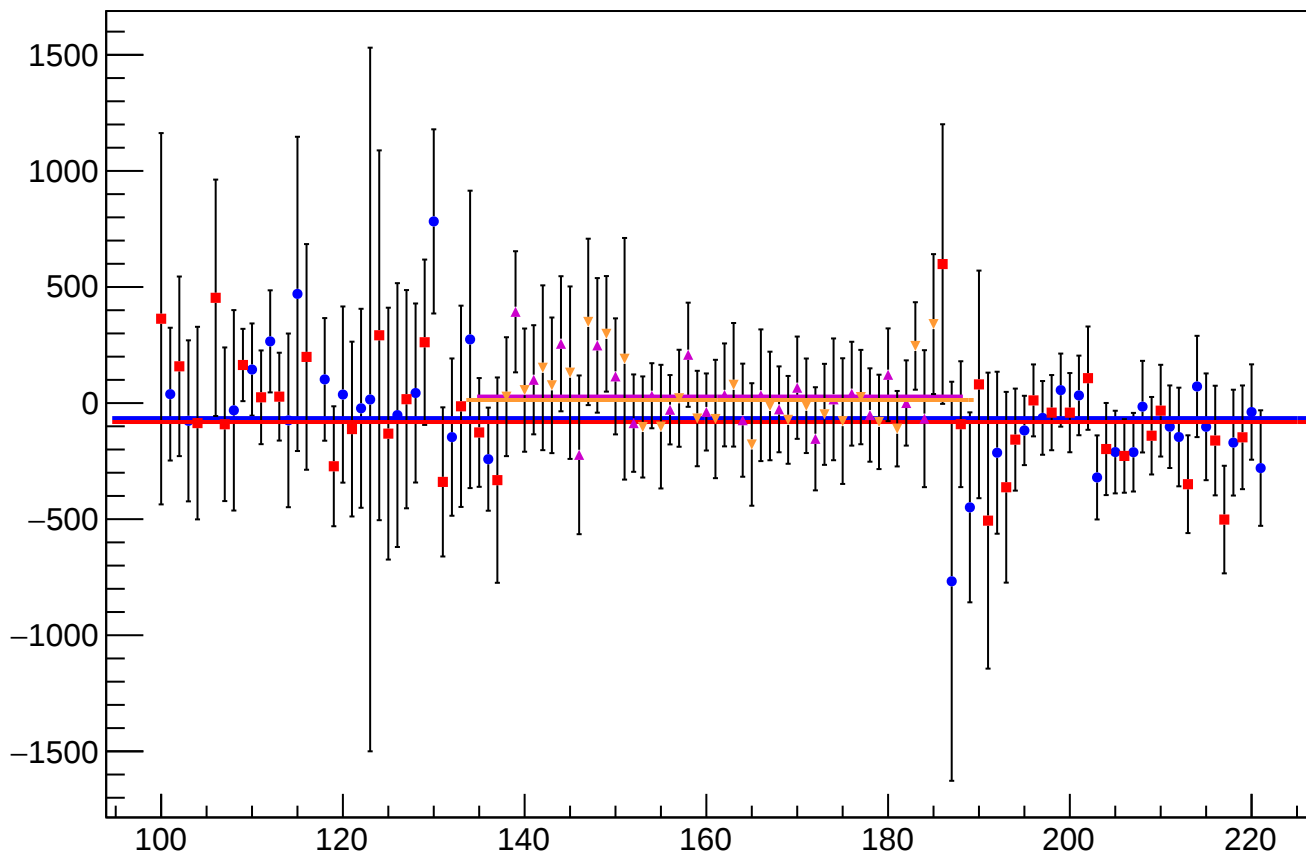
Right: 10.713 $\pm$ 0.001 χ^2 /NDF: 520192.6/71

In: 10.968 $\pm$ 0.001 χ^2 /NDF:452303.1/57

Out: 11.101 $\pm$ 0.001 χ^2 /NDF:504378.9/61

All: 11.034 $\pm$ 0.001 χ^2 /NDF: 962043.7/119

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.676 ± 40.625 $\chi^2/\text{NDF}: 18.1/34$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -81.555 ± 41.077 $\chi^2/\text{NDF}: 18.1/36$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

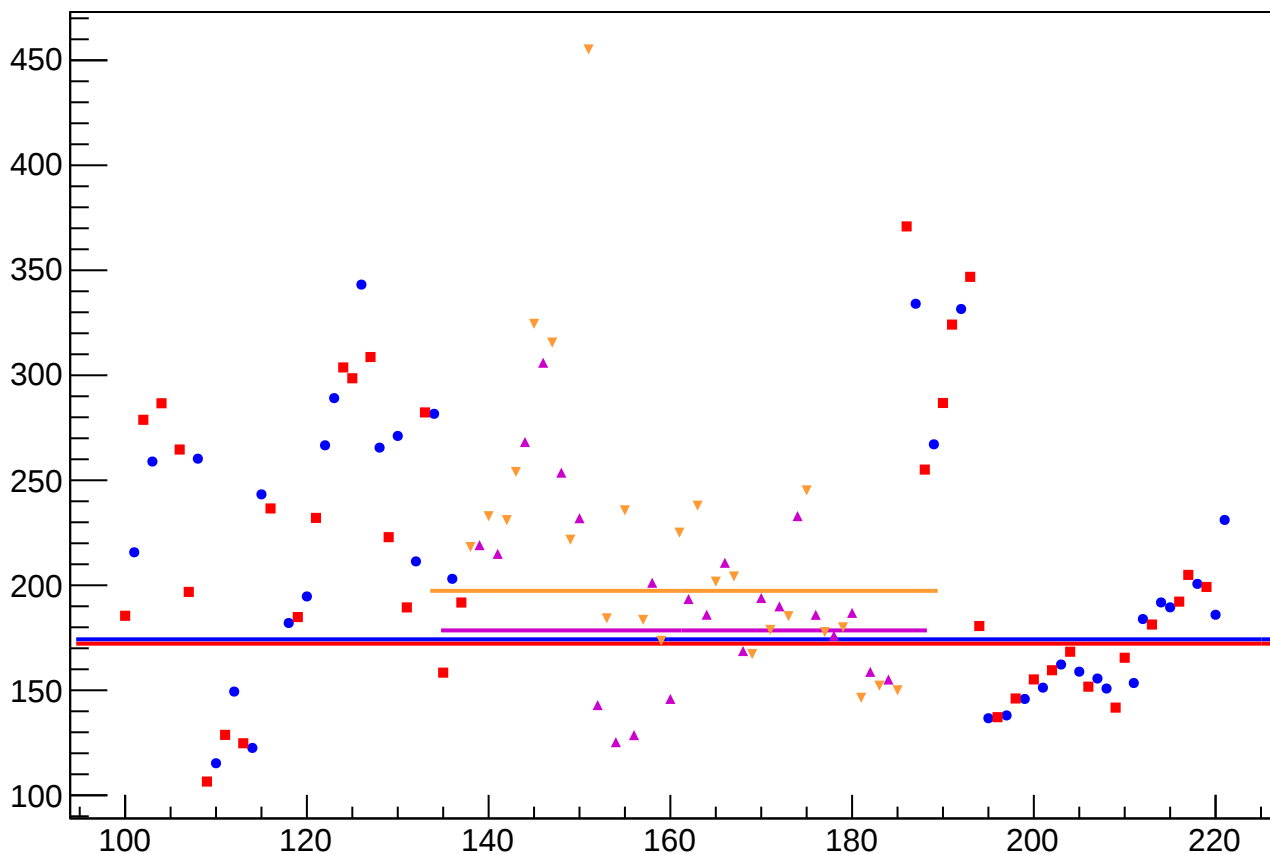
Right: -73.022 ± 28.885 $\chi^2/\text{NDF}: 36.3/71$

In: -22.712 ± 30.058 $\chi^2/\text{NDF}: 27.1/57$

Out: -41.118 ± 31.115 $\chi^2/\text{NDF}: 28.3/61$

All: -31.597 ± 21.619 $\chi^2/\text{NDF}: 55.5/119$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.260 +/- 0.029 χ^2/NDF : 2313618.6/34

Left Out: 197.355 +/- 0.034 χ^2/NDF : 1790824.5/24

Right Out: 172.204 +/- 0.029 χ^2/NDF : 2927330.1/36

Left In: 178.512 +/- 0.032 χ^2/NDF : 1642304.1/22

Left: 187.326 +/- 0.023 χ^2/NDF : 3599509.2/47

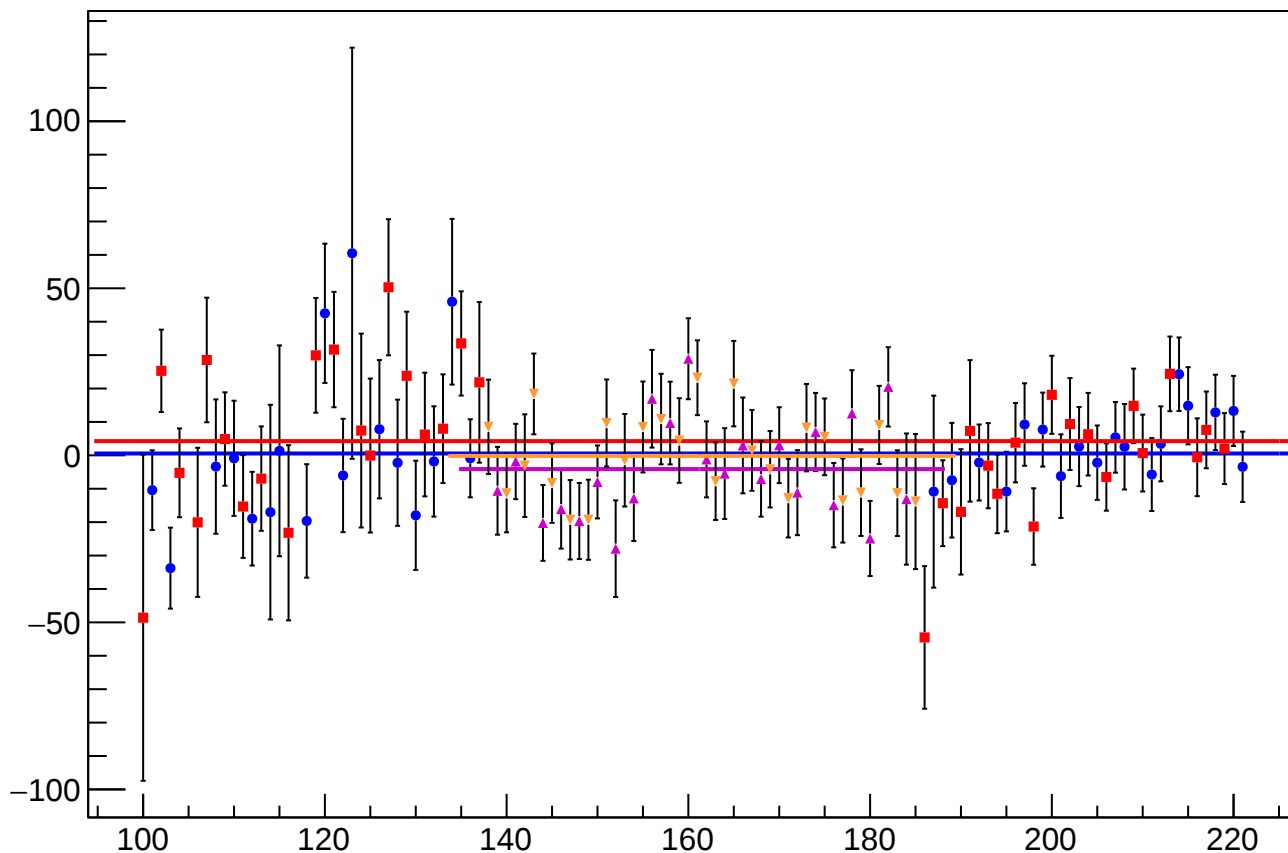
Right: 173.243 +/- 0.020 χ^2/NDF : 5243482.8/71

In: 176.184 +/- 0.021 χ^2/NDF : 3965838.6/57

Out: 182.923 +/- 0.022 χ^2/NDF : 5037737.6/61

All: 179.437 +/- 0.015 χ^2/NDF : 9052100.5/119

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.554 ± 2.316 χ^2/NDF : 34.8/34

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 4.258 ± 2.372 χ^2/NDF : 51.1/36

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

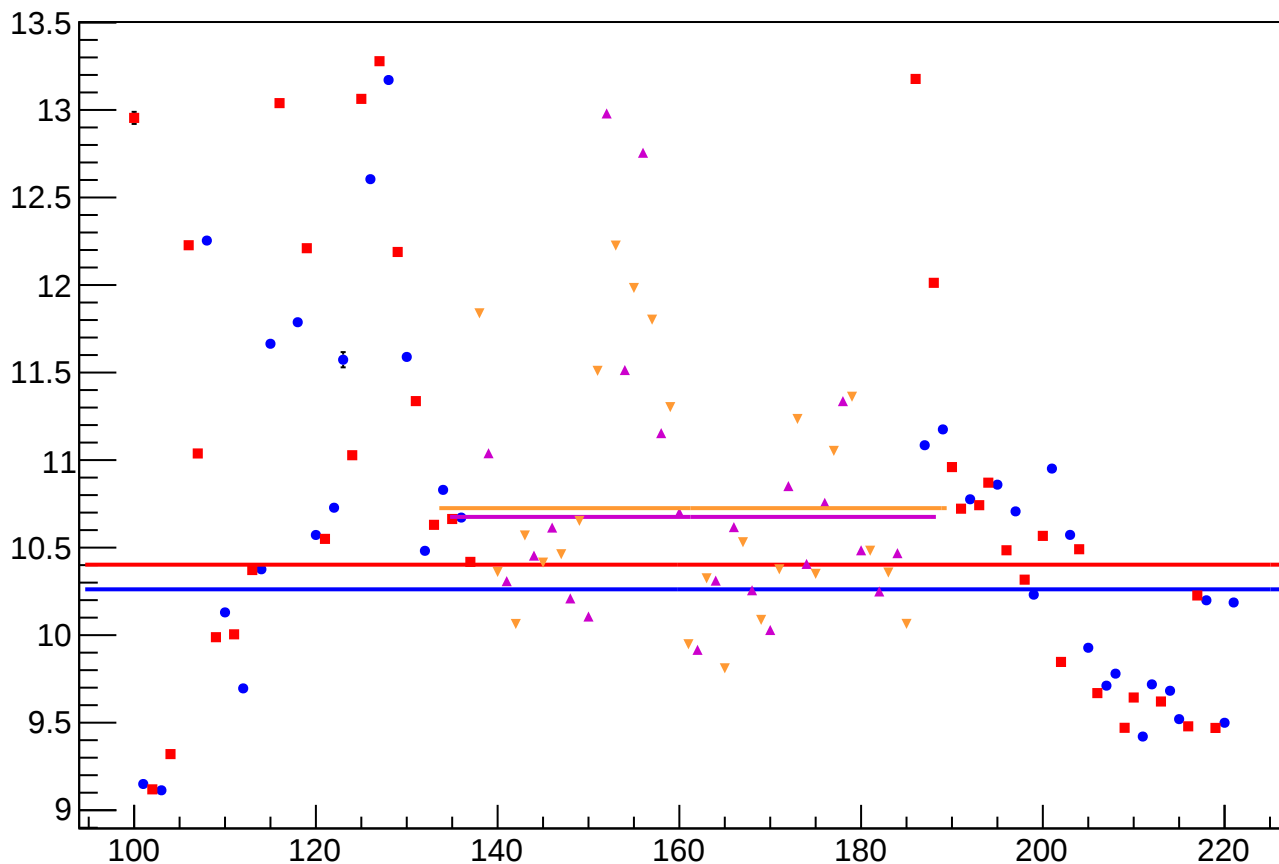
Right: 2.362 ± 1.657 χ^2/NDF : 87.1/71

In: -1.528 ± 1.722 χ^2/NDF : 68.1/57

Out: 2.178 ± 1.727 χ^2/NDF : 77.1/61

All: 0.320 ± 1.220 χ^2/NDF : 147.5/119

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.262 $\pm$ 0.002 χ^2 /NDF: 249053.6/34

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.403 $\pm$ 0.002 χ^2 /NDF: 340056.4/36

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

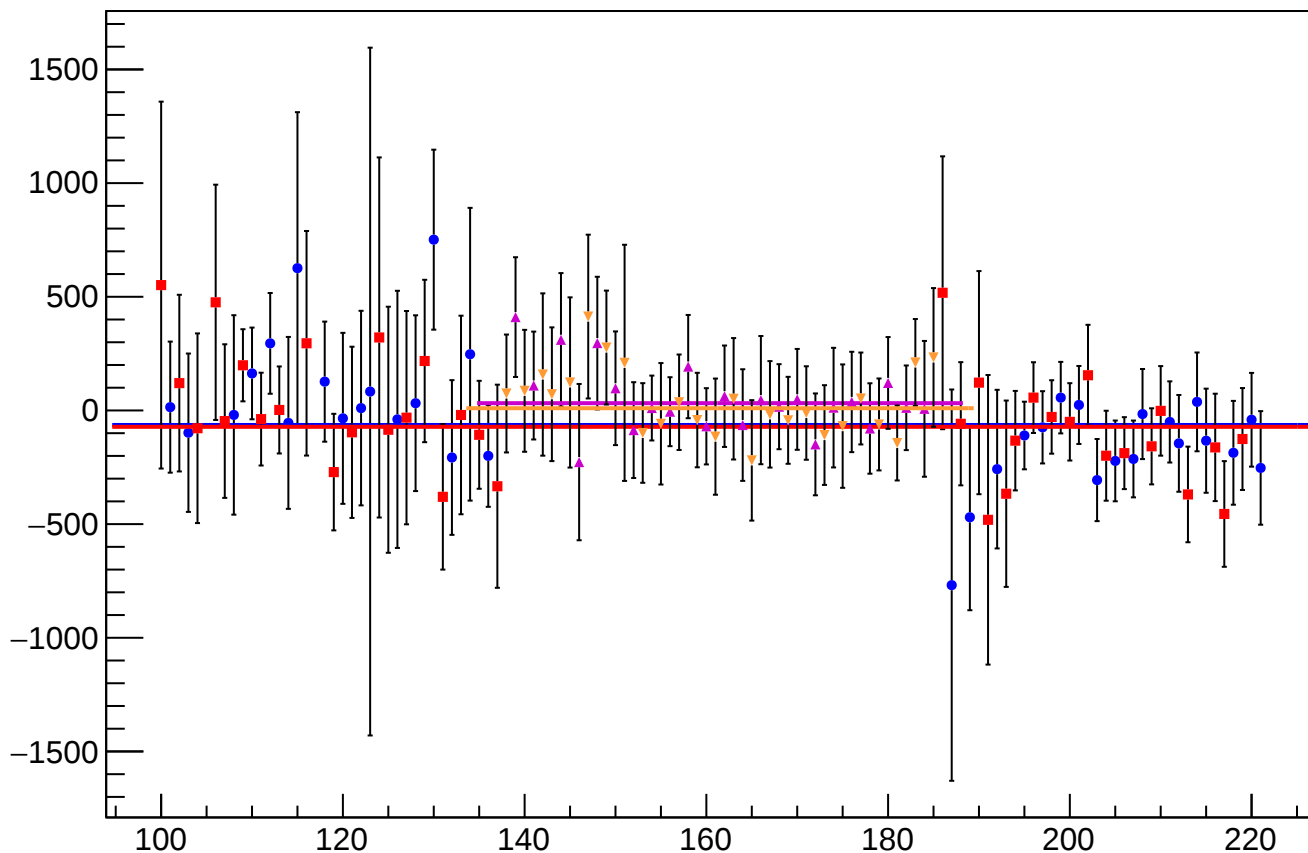
Right: 10.330 $\pm$ 0.001 χ^2 /NDF: 592719.0/71

In: 10.447 $\pm$ 0.001 χ^2 /NDF:423508.1/57

Out: 10.554 $\pm$ 0.001 χ^2 /NDF:489638.8/61

All: 10.500 $\pm$ 0.001 χ^2 /NDF: 917045.8/119

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.889 ± 40.689 $\chi^2/\text{NDF}: 18.3/34$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -71.977 ± 41.196 $\chi^2/\text{NDF}: 18.6/36$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

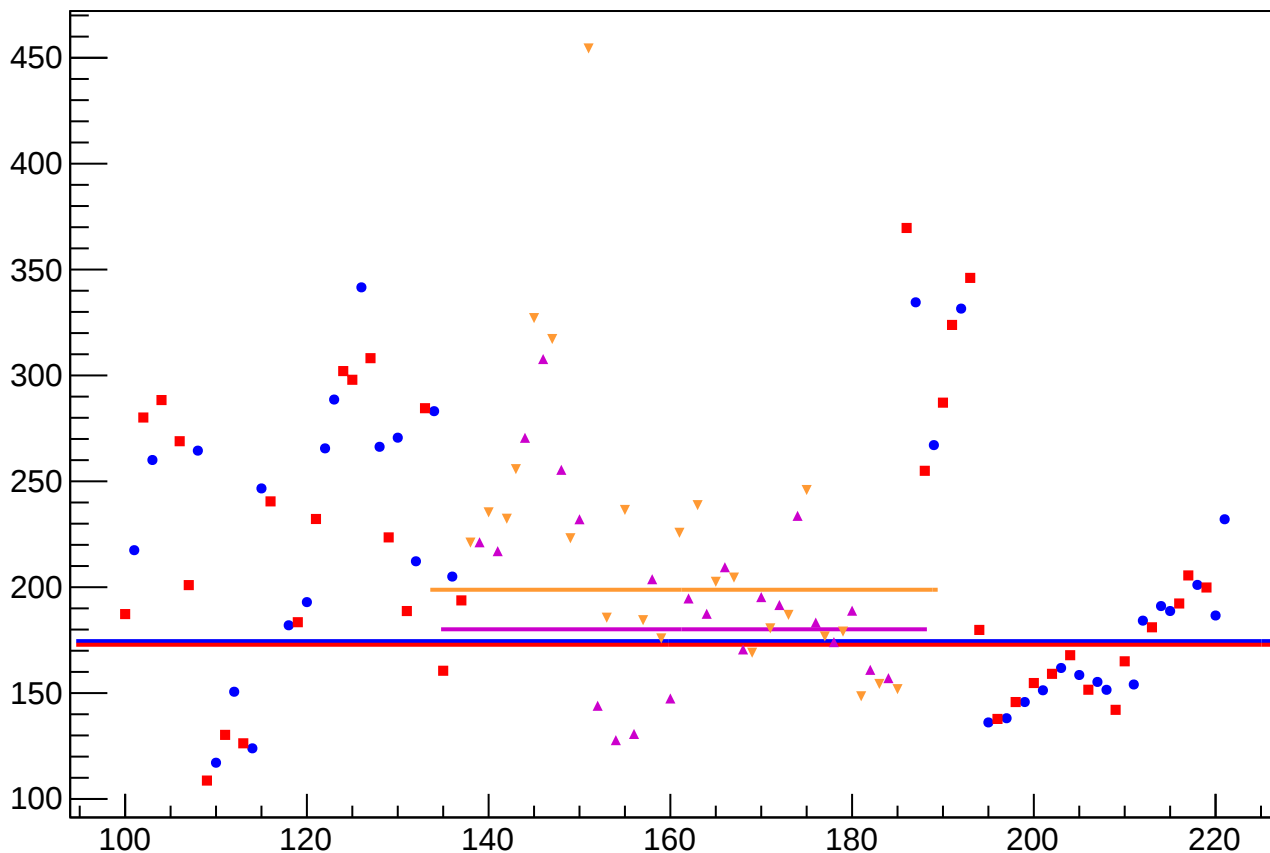
Right: -67.883 ± 28.949 $\chi^2/\text{NDF}: 37.0/71$

In: -20.802 ± 30.192 $\chi^2/\text{NDF}: 28.0/57$

Out: -37.272 ± 31.255 $\chi^2/\text{NDF}: 27.9/61$

All: -28.752 ± 21.715 $\chi^2/\text{NDF}: 56.0/119$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.541 $\pm$ 0.029 χ^2 /NDF: 2311462.1/34

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 172.830 $\pm$ 0.029 χ^2 /NDF: 2885126.4/36

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF:1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

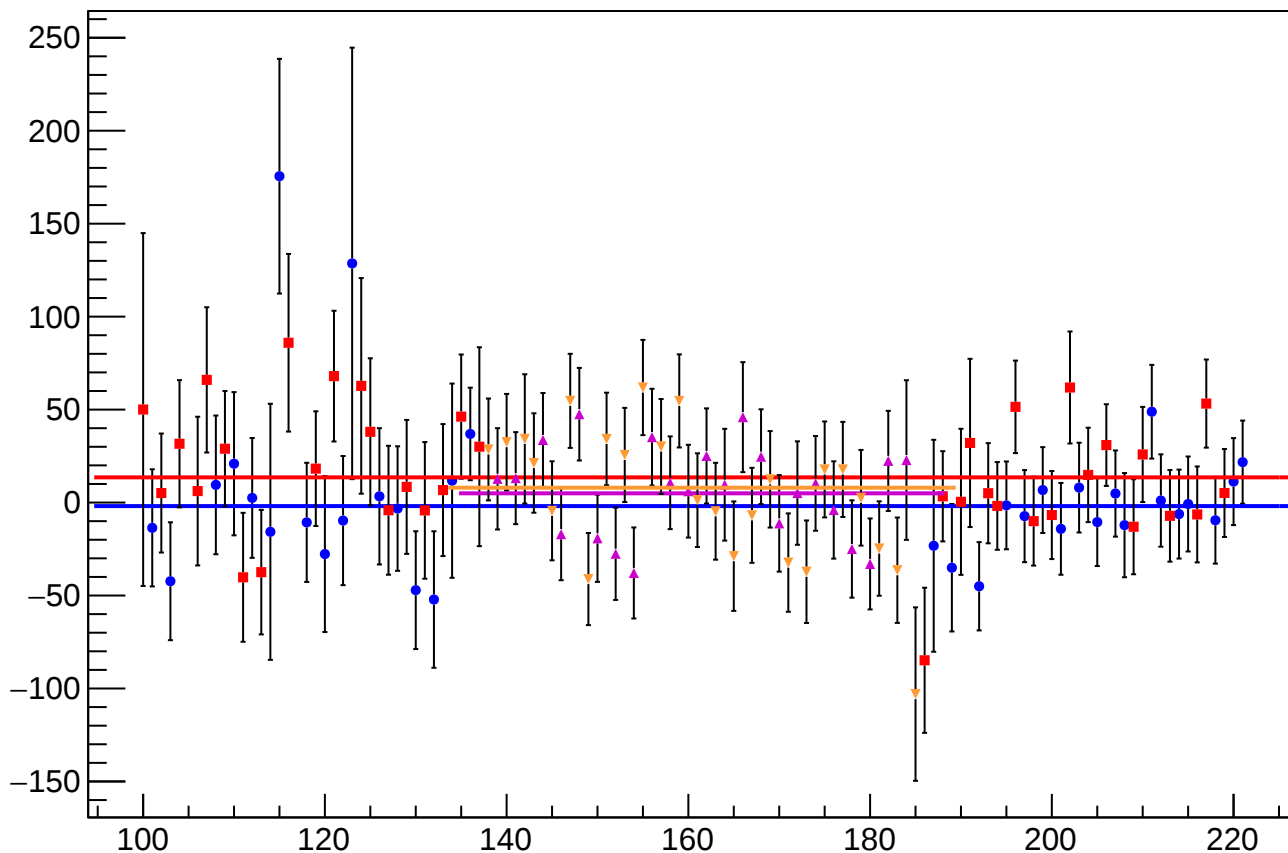
Right: 173.696 $\pm$ 0.020 χ^2 /NDF: 5198334.8/71

In: 177.050 $\pm$ 0.021 χ^2 /NDF:3922220.4/57

Out: 183.851 $\pm$ 0.022 χ^2 /NDF:4985547.5/61

All: 180.333 $\pm$ 0.015 χ^2 /NDF: 8956762.3/119

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.901 ± 4.922 χ^2/NDF : 29.3/34

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.550 ± 5.005 χ^2/NDF : 34.8/36

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

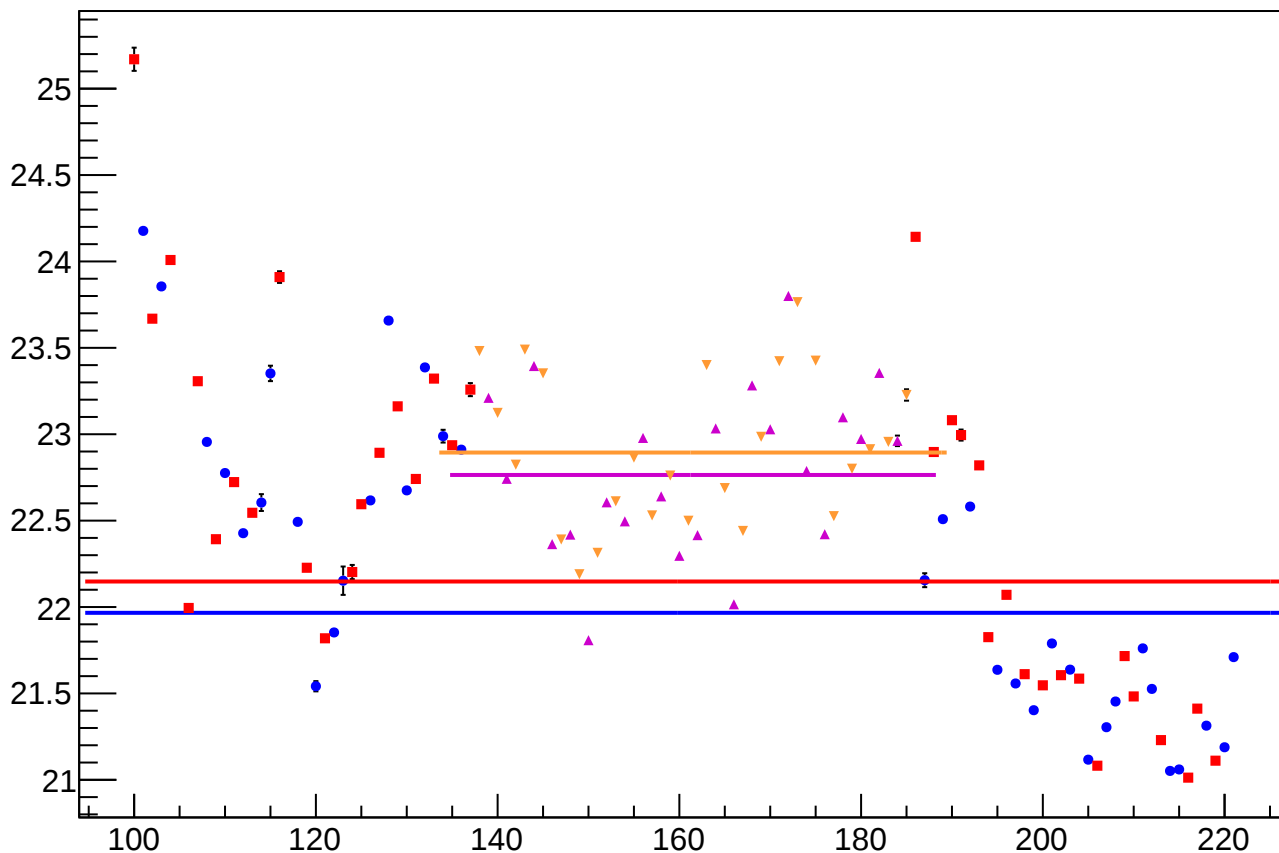
Right: 5.695 ± 3.509 χ^2/NDF : 69.0/71

In: 1.191 ± 3.651 χ^2/NDF : 50.7/57

Out: 10.943 ± 3.648 χ^2/NDF : 72.9/61

All: 6.071 ± 2.580 χ^2/NDF : 127.1/119

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.966+/-0.003 χ^2/NDF : 54526.1/34

Left Out: 22.894+/-0.004 χ^2/NDF :13070.5/24

Right Out: 22.148+/-0.004 χ^2/NDF : 59143.7/36

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

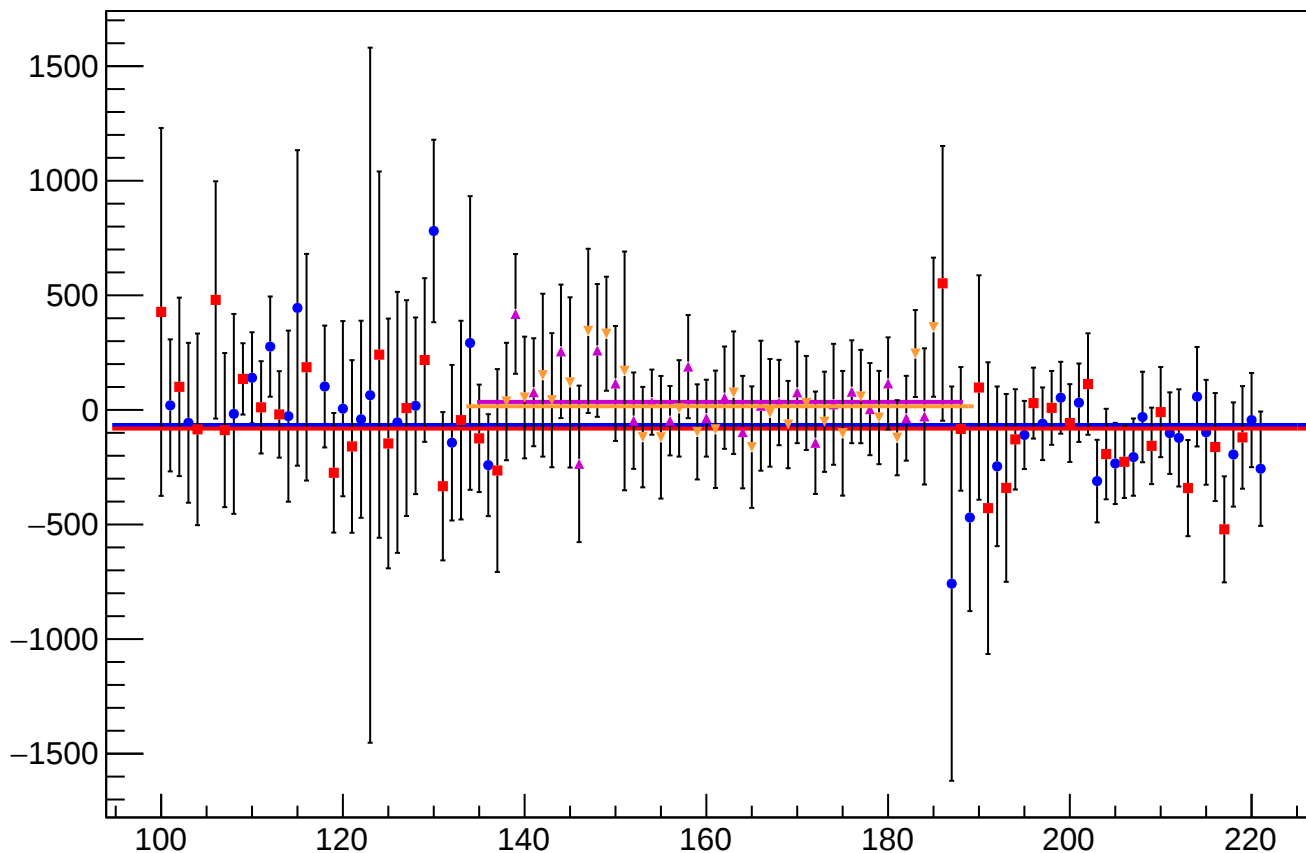
Right: 22.056+/-0.002 χ^2/NDF : 115003.1/71

In: 22.325+/-0.003 χ^2/NDF :92823.7/57

Out: 22.498+/-0.003 χ^2/NDF :93068.0/61

All: 22.412+/-0.002 χ^2/NDF : 188123.8/119

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.803 ± 40.575 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -81.489 ± 41.028 $\chi^2/\text{NDF}: 17.1/36$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

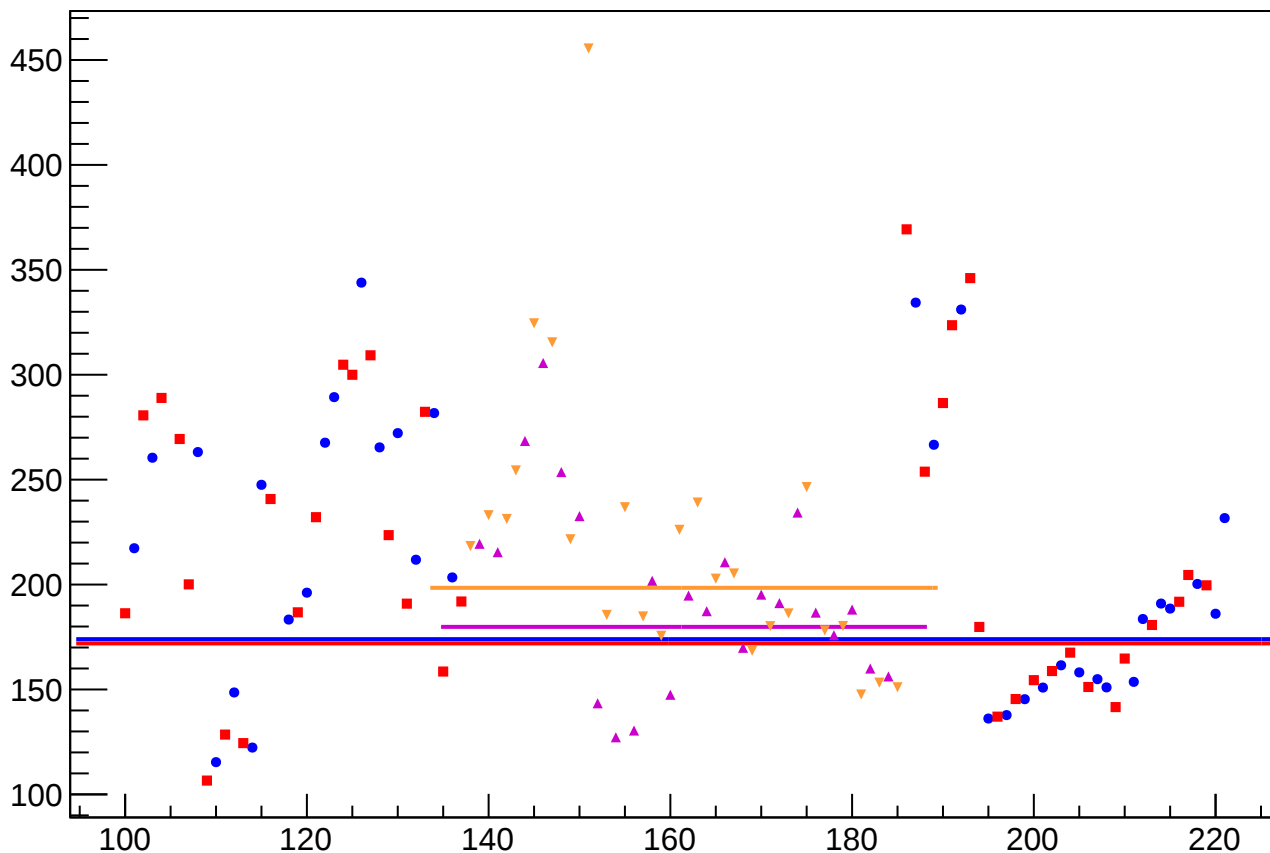
Right: -73.559 ± 28.850 $\chi^2/\text{NDF}: 35.0/71$

In: -20.604 ± 30.125 $\chi^2/\text{NDF}: 27.2/57$

Out: -40.272 ± 31.160 $\chi^2/\text{NDF}: 27.9/61$

All: -30.106 ± 21.658 $\chi^2/\text{NDF}: 55.3/119$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.985 $\pm$ 0.029 χ^2 /NDF: 2343531.5/34

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 171.949 $\pm$ 0.029 χ^2 /NDF: 2955723.7/36

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

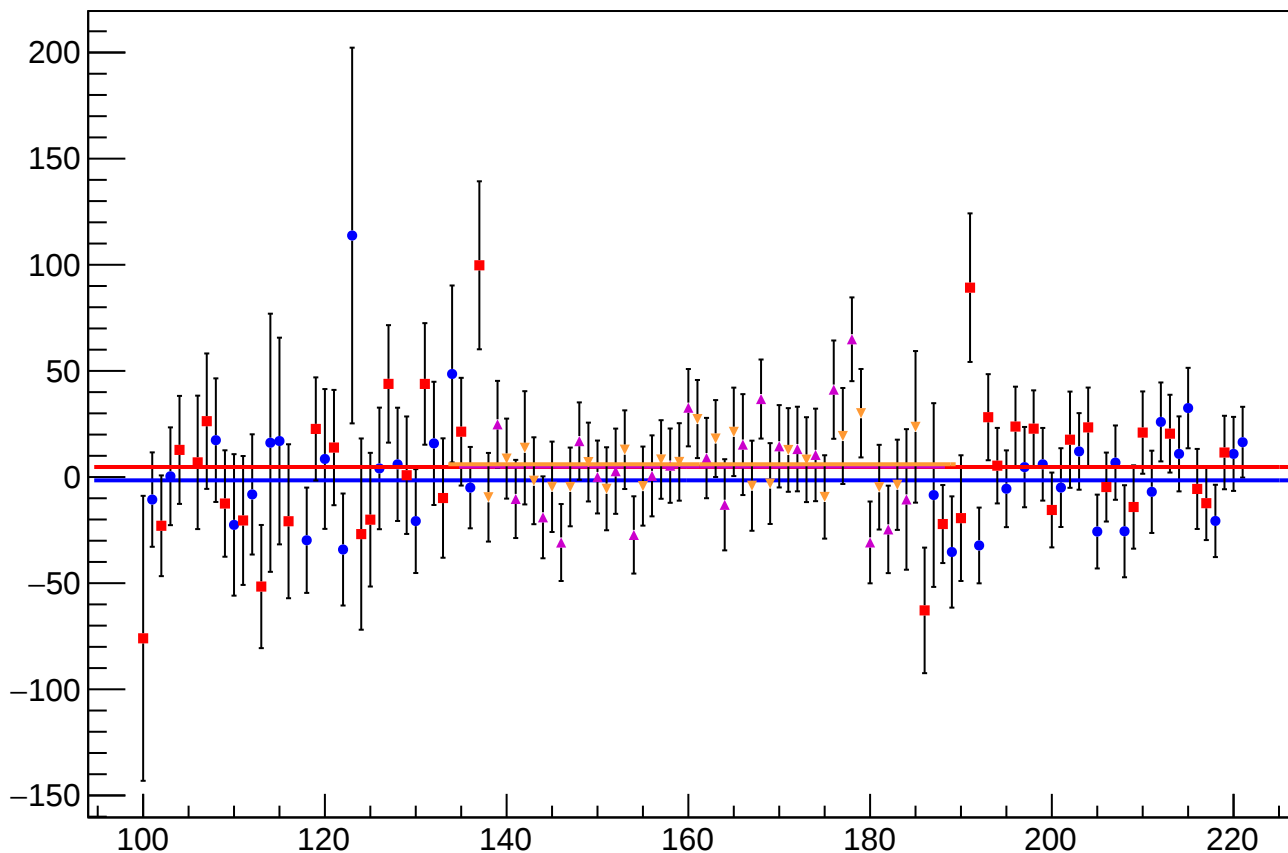
Right: 172.978 $\pm$ 0.020 χ^2 /NDF: 5301744.9/71

In: 176.612 $\pm$ 0.021 χ^2 /NDF:3951048.3/57

Out: 183.164 $\pm$ 0.022 χ^2 /NDF:5070280.4/61

All: 179.778 $\pm$ 0.015 χ^2 /NDF: 9067038.2/119

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.555 ± 3.733 $\chi^2/\text{NDF}: 26.4/34$

Left Out: 6.020 ± 4.017 $\chi^2/\text{NDF}: 8.1/24$

Right Out: 4.734 ± 3.806 $\chi^2/\text{NDF}: 44.9/36$

Left In: 4.943 ± 4.108 $\chi^2/\text{NDF}: 34.8/22$

Left: 5.494 ± 2.872 $\chi^2/\text{NDF}: 43.0/47$

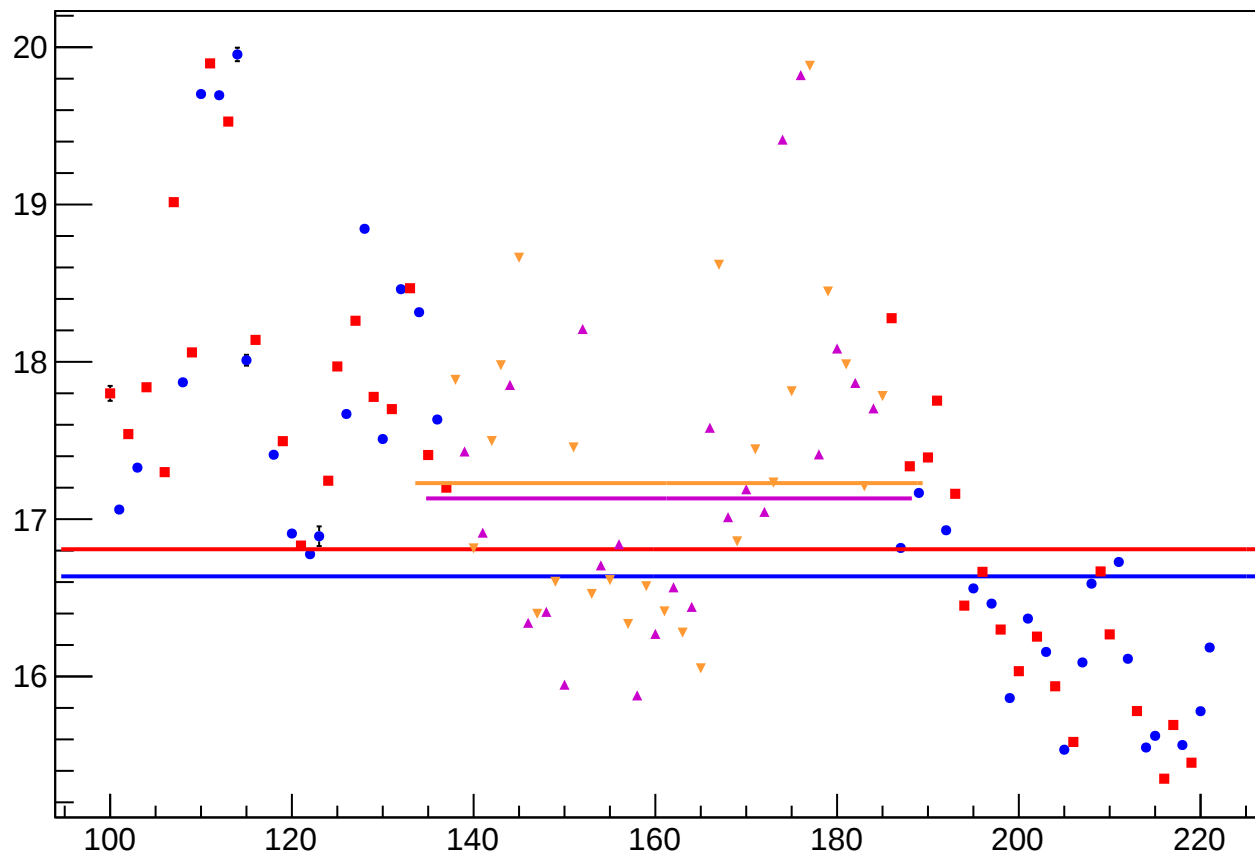
Right: 1.529 ± 2.665 $\chi^2/\text{NDF}: 72.6/71$

In: 1.385 ± 2.763 $\chi^2/\text{NDF}: 62.6/57$

Out: 5.342 ± 2.763 $\chi^2/\text{NDF}: 53.1/61$

All: 3.363 ± 1.954 $\chi^2/\text{NDF}: 116.7/119$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.636 $\pm$ 0.003 χ^2/NDF : 138168.4/34

Left Out: 17.229 $\pm$ 0.003 χ^2/NDF :98624.7/24

Right Out: 16.809 $\pm$ 0.003 χ^2/NDF : 157459.4/36

Left In: 17.132 $\pm$ 0.003 χ^2/NDF :103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2/NDF : 203195.4/47

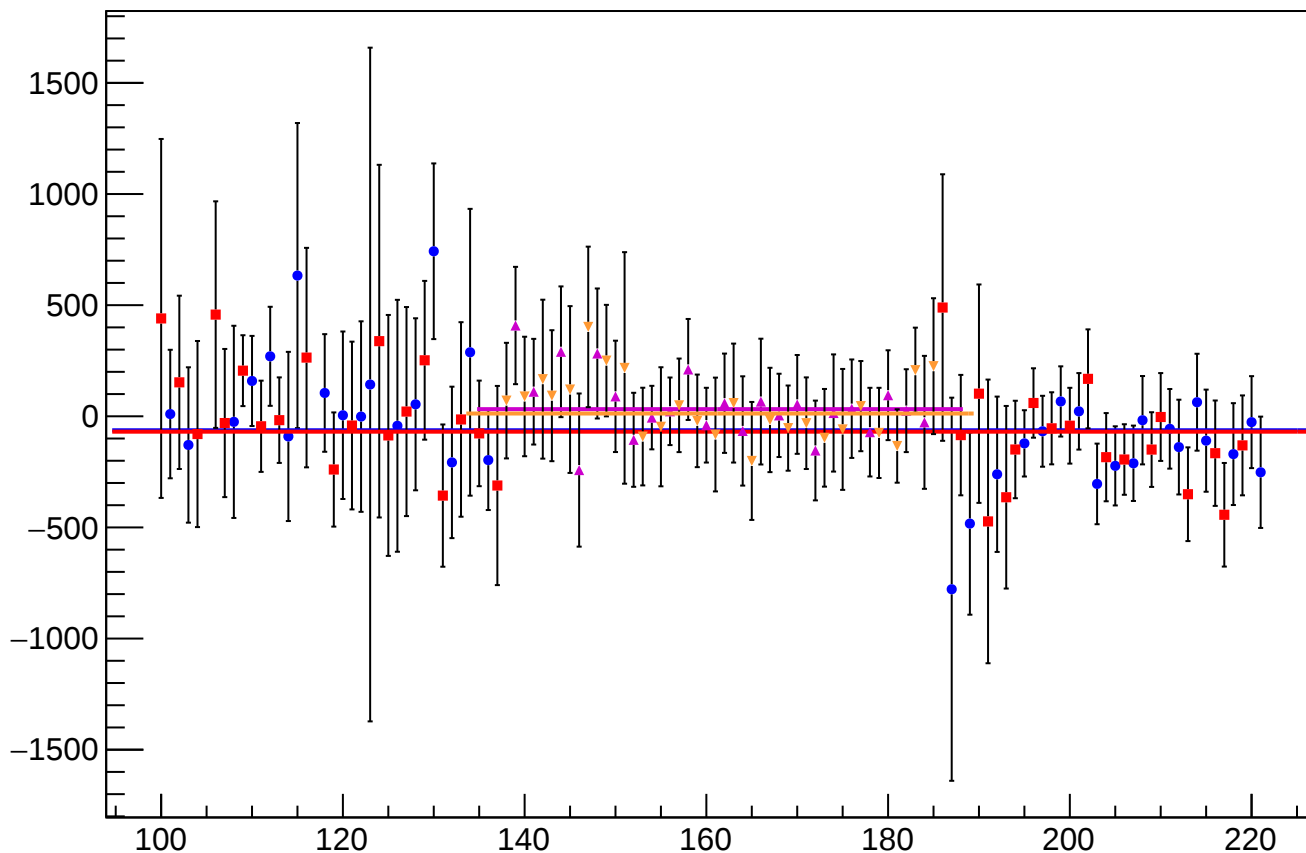
Right: 16.721 $\pm$ 0.002 χ^2/NDF : 297717.4/71

In: 16.860 $\pm$ 0.002 χ^2/NDF :258101.6/57

Out: 17.008 $\pm$ 0.002 χ^2/NDF :267629.4/61

All: 16.934 $\pm$ 0.001 χ^2/NDF : 528563.8/119

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.842 ± 40.811 χ^2/NDF : 18.0/34

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -69.210 ± 41.306 χ^2/NDF : 17.8/36

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

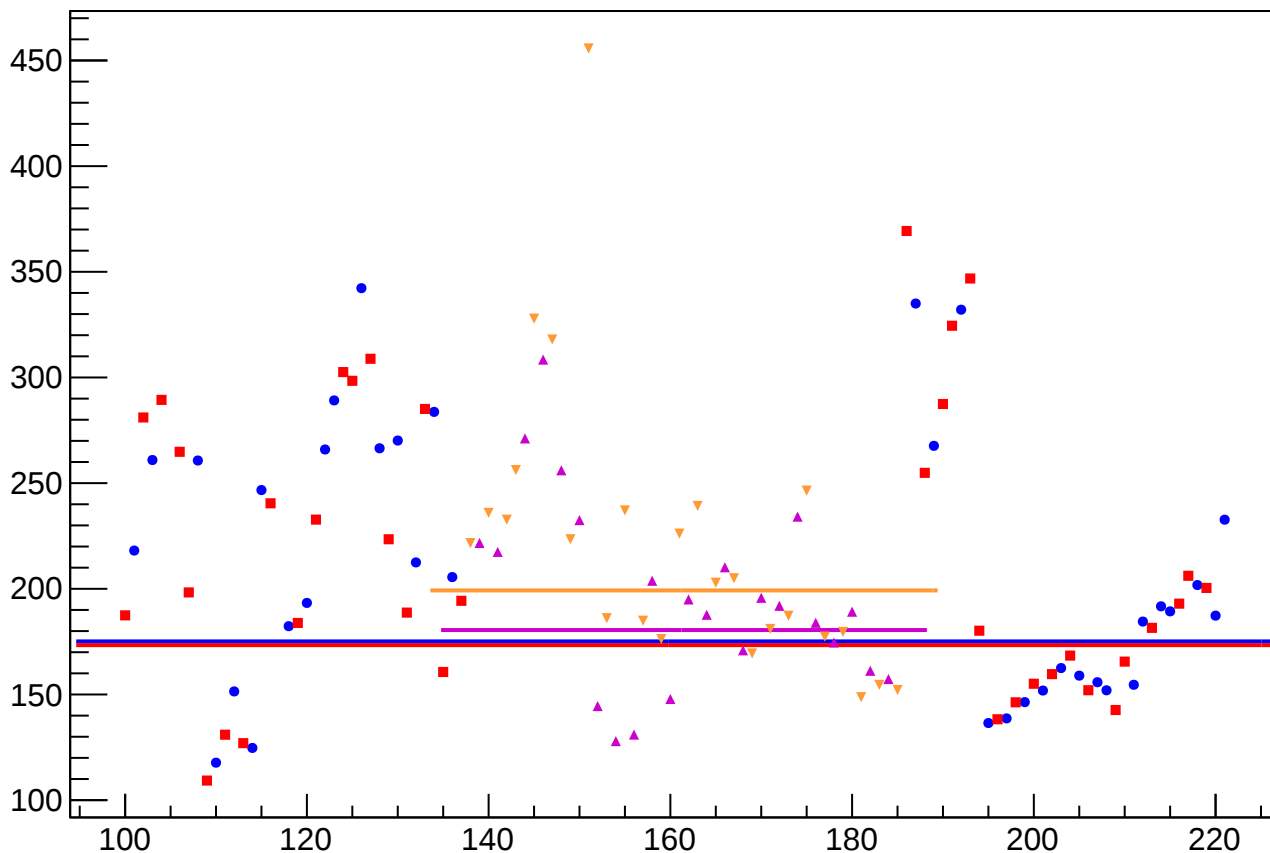
Right: -65.988 ± 29.031 χ^2/NDF : 35.8/71

In: -20.104 ± 30.270 χ^2/NDF : 27.4/57

Out: -34.527 ± 31.333 χ^2/NDF : 26.3/61

All: -27.067 ± 21.770 χ^2/NDF : 53.8/119

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.112 $\pm$ 0.029 χ^2 /NDF: 2292872.5/34

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 173.351 $\pm$ 0.029 χ^2 /NDF: 2860450.0/36

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

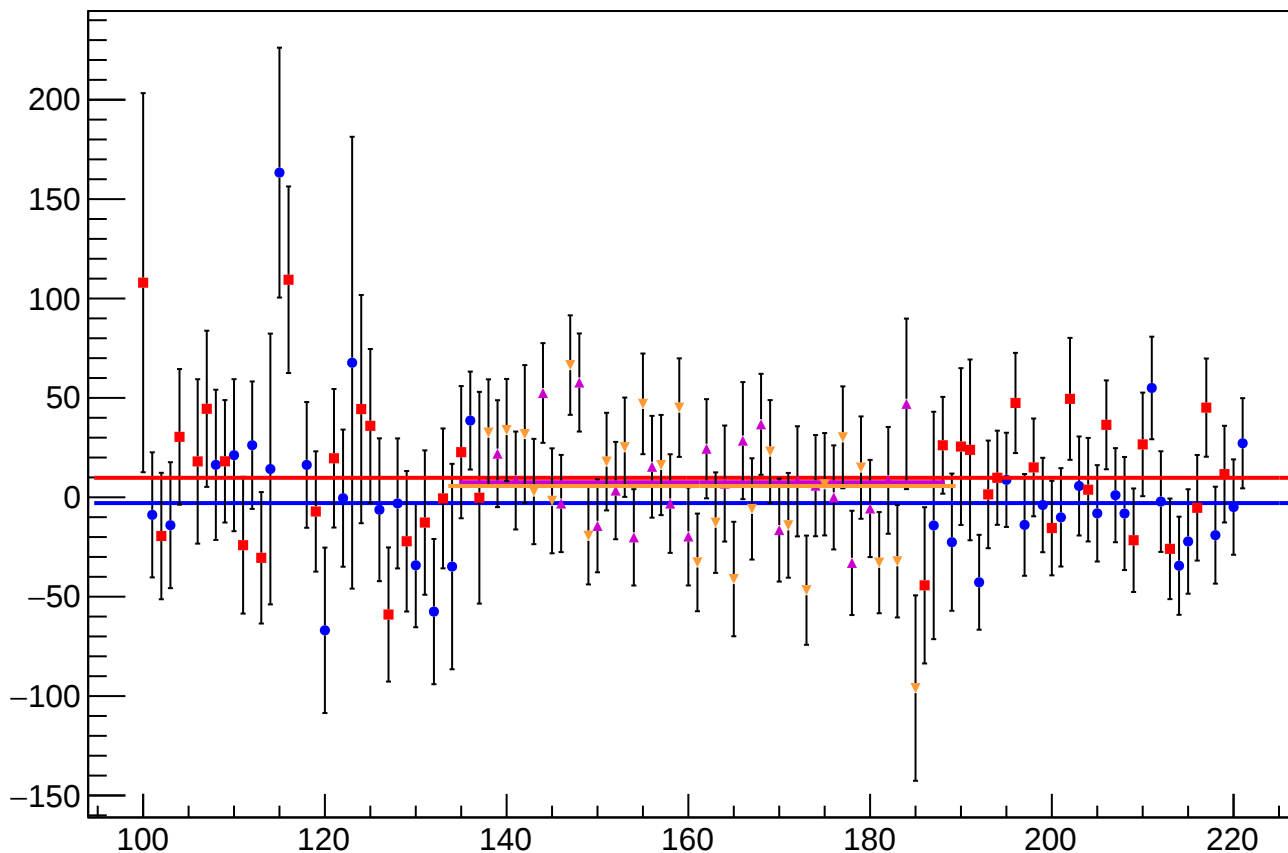
Right: 174.242 $\pm$ 0.021 χ^2 /NDF: 5155161.7/71

In: 177.533 $\pm$ 0.021 χ^2 /NDF:3902303.9/57

Out: 184.344 $\pm$ 0.022 χ^2 /NDF:4958161.5/61

All: 180.821 $\pm$ 0.015 χ^2 /NDF: 8909344.1/119

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.907 $\pm$ 4.981 χ^2 /NDF: 31.6/34

Left Out: 5.673 $\pm$ 5.278 χ^2 /NDF:36.4/24

Right Out: 9.807 $\pm$ 5.048 χ^2 /NDF: 32.5/36

Left In: 7.594 $\pm$ 5.402 χ^2 /NDF:18.3/22

Left: 6.611 $\pm$ 3.775 χ^2 /NDF: 54.8/47

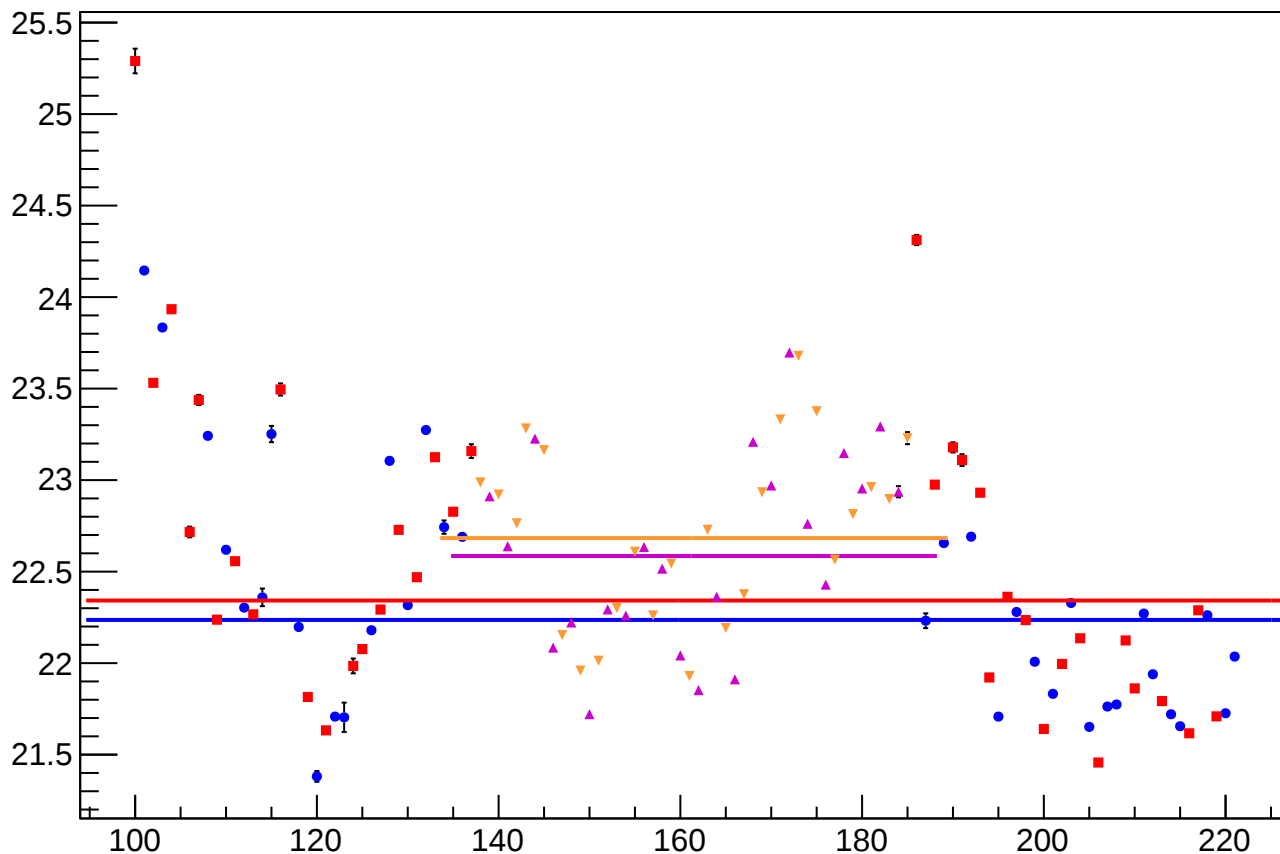
Right: 3.365 $\pm$ 3.546 χ^2 /NDF: 67.3/71

In: 1.919 $\pm$ 3.662 χ^2 /NDF:51.9/57

Out: 7.832 $\pm$ 3.648 χ^2 /NDF:69.2/61

All: 4.886 $\pm$ 2.584 χ^2 /NDF: 122.4/119

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.236+/-0.004 χ^2/NDF : 28331.6/34

Left Out: 22.683+/-0.004 χ^2/NDF :16318.1/24

Right Out: 22.342+/-0.004 χ^2/NDF : 35201.2/36

Left In: 22.585+/-0.004 χ^2/NDF :18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

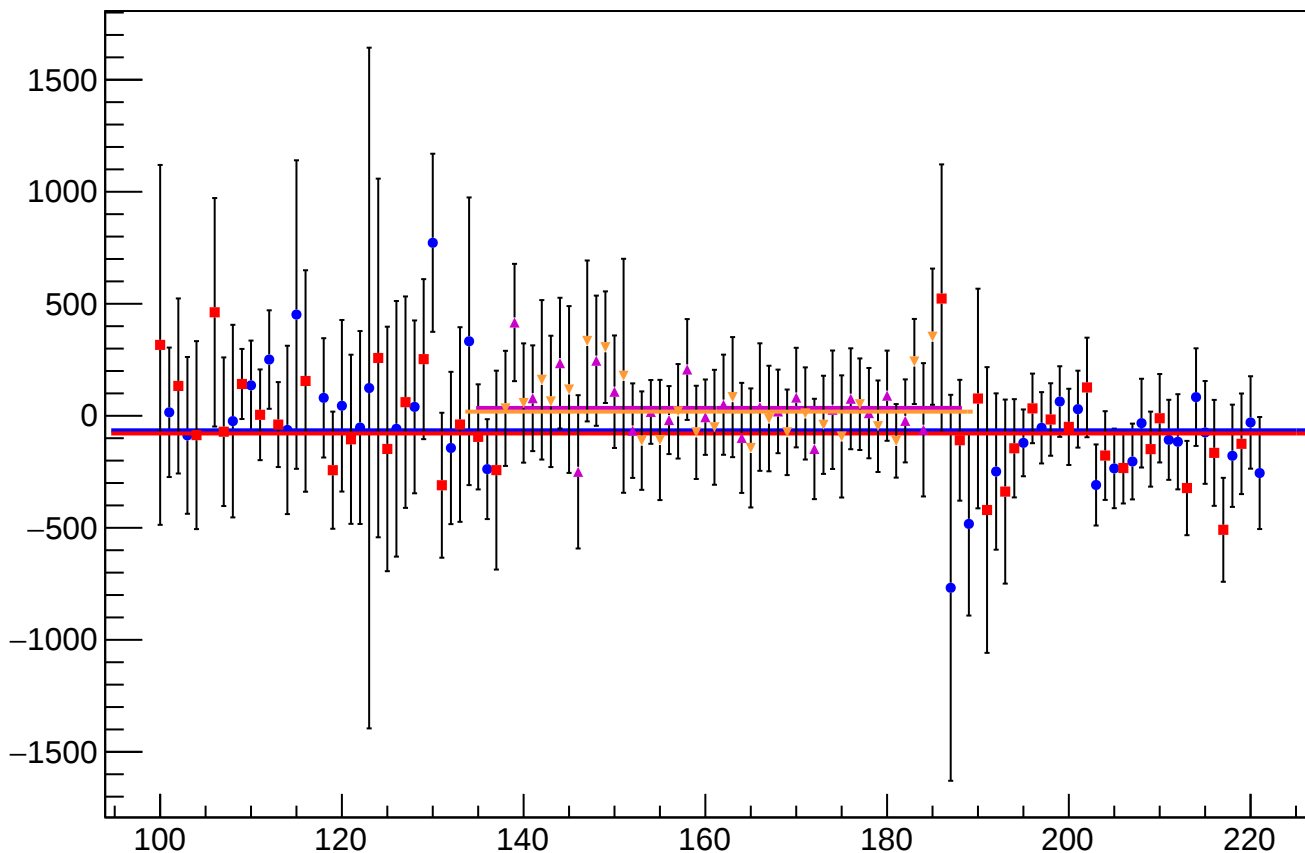
Right: 22.289+/-0.003 χ^2/NDF : 63979.4/71

In: 22.397+/-0.003 χ^2/NDF :50931.6/57

Out: 22.505+/-0.003 χ^2/NDF :55885.7/61

All: 22.451+/-0.002 χ^2/NDF : 107700.0/119

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.821 ± 40.698 χ^2/NDF : 17.6/34

Left Out: 18.633 ± 48.006 χ^2/NDF : 7.6/24

Right Out: -78.767 ± 41.140 χ^2/NDF : 16.2/36

Left In: 35.046 ± 45.063 χ^2/NDF : 6.3/22

Left: 27.358 ± 32.855 χ^2/NDF : 13.9/47

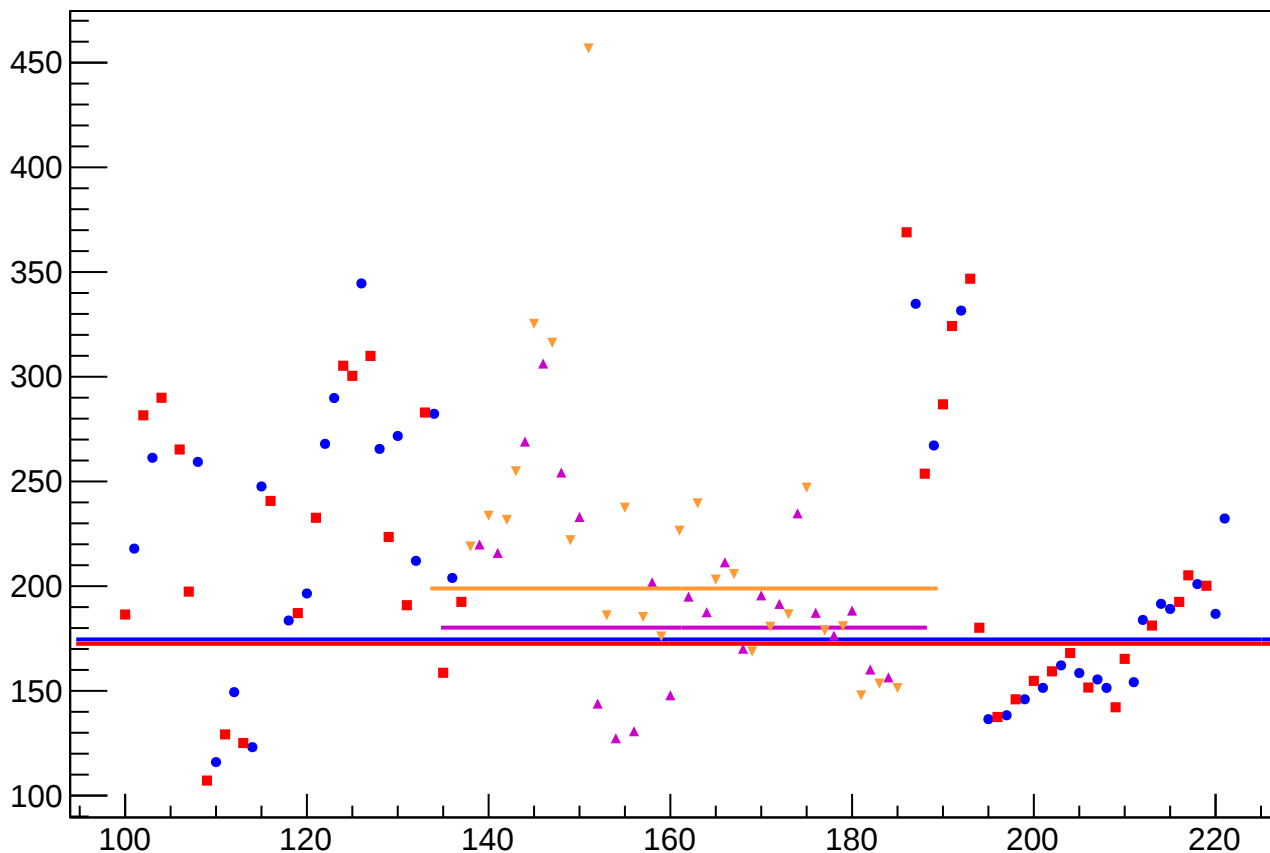
Right: -71.719 ± 28.933 χ^2/NDF : 33.9/71

In: -19.957 ± 30.204 χ^2/NDF : 26.6/57

Out: -37.525 ± 31.238 χ^2/NDF : 26.2/61

All: -28.445 ± 21.714 χ^2/NDF : 53.0/119

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.560 $\pm$ 0.029 χ^2 /NDF: 2324317.6/34

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 172.476 $\pm$ 0.029 χ^2 /NDF: 2930093.5/36

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

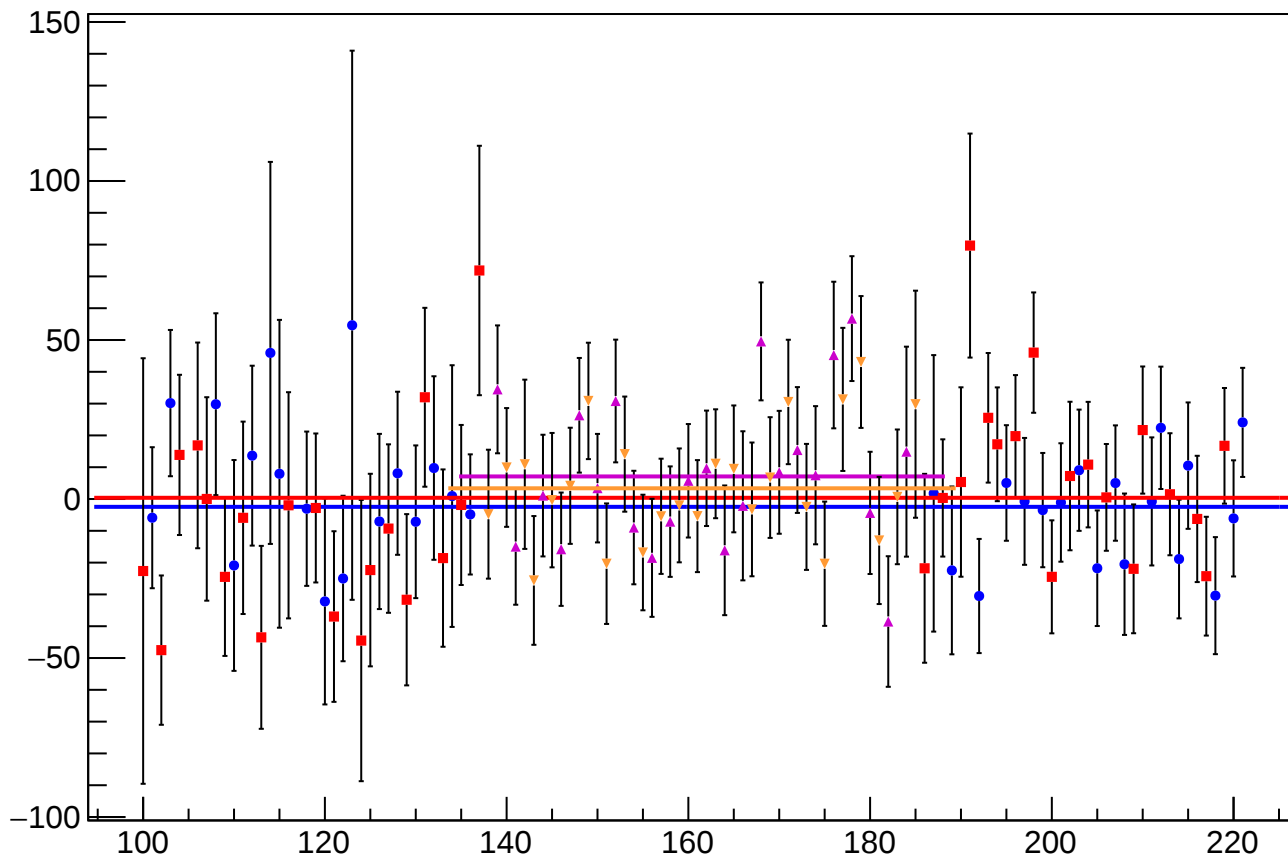
Right: 173.529 $\pm$ 0.020 χ^2 /NDF: 5257005.8/71

In: 177.097 $\pm$ 0.021 χ^2 /NDF:3930620.8/57

Out: 183.661 $\pm$ 0.022 χ^2 /NDF:5041678.8/61

All: 180.268 $\pm$ 0.015 χ^2 /NDF: 9017935.0/119

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.461 ± 3.813 χ^2/NDF : 20.3/34

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 0.384 ± 3.866 χ^2/NDF : 40.6/36

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

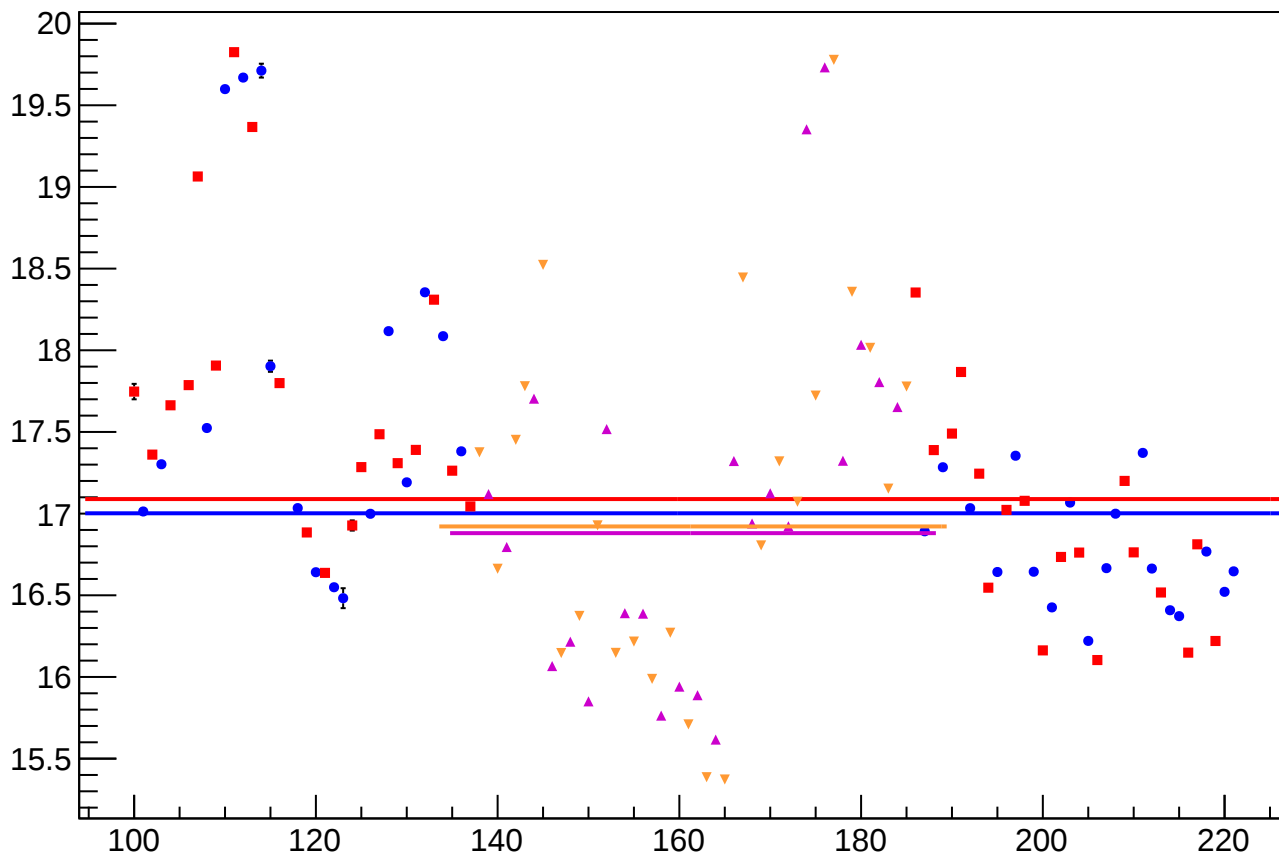
Right: -1.059 ± 2.715 χ^2/NDF : 61.1/71

In: 2.033 ± 2.775 χ^2/NDF : 55.7/57

Out: 1.847 ± 2.762 χ^2/NDF : 59.7/61

All: 1.940 ± 1.958 χ^2/NDF : 115.4/119

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.002 $\pm$ 0.003 χ^2 /NDF: 63928.7/34

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.089 $\pm$ 0.003 χ^2 /NDF: 80169.7/36

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

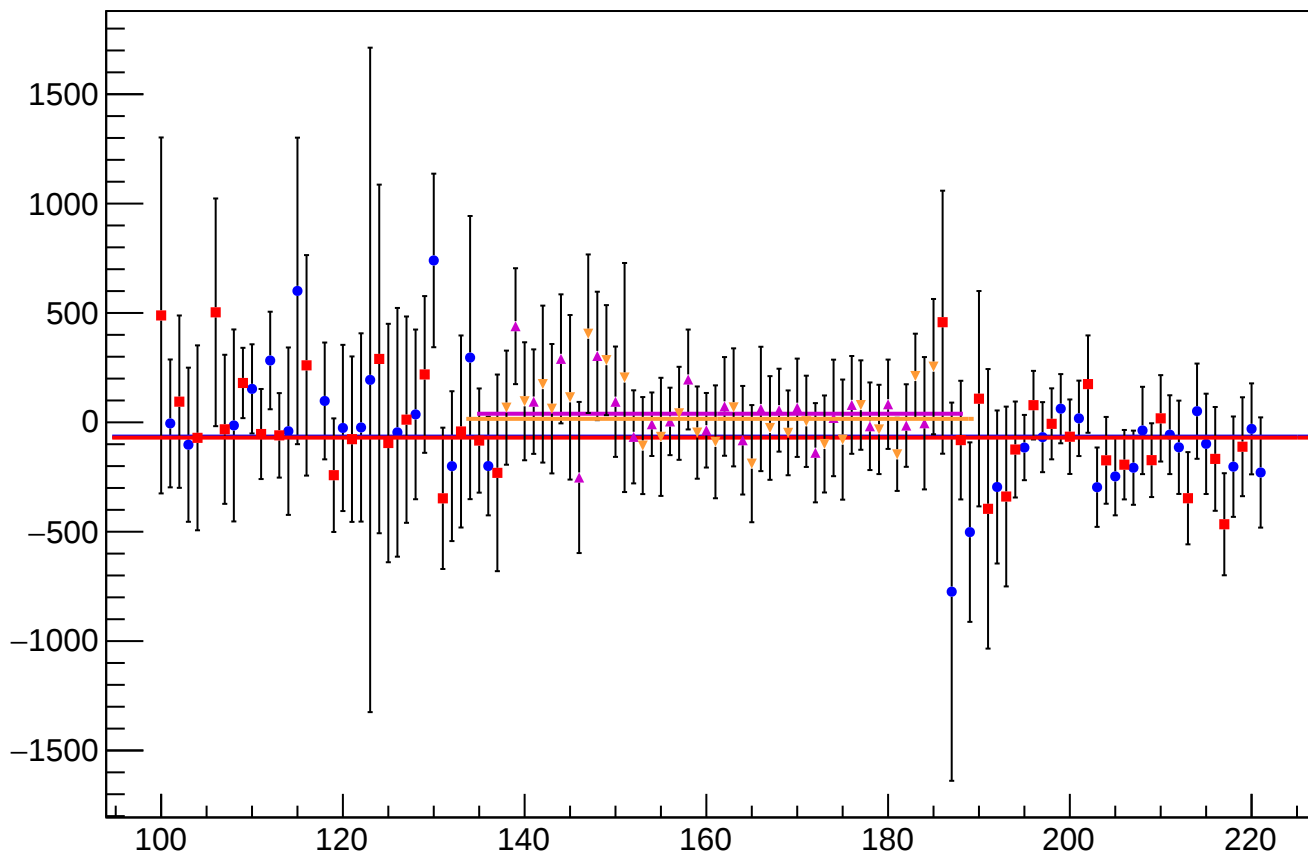
Right: 17.045 $\pm$ 0.002 χ^2 /NDF: 144612.8/71

In: 16.945 $\pm$ 0.002 χ^2 /NDF:186621.0/57

Out: 17.007 $\pm$ 0.002 χ^2 /NDF:221001.4/61

All: 16.976 $\pm$ 0.001 χ^2 /NDF: 408126.5/119

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.146 ± 40.924 $\chi^2/\text{NDF}: 17.8/34$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -69.838 ± 41.436 $\chi^2/\text{NDF}: 17.1/36$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

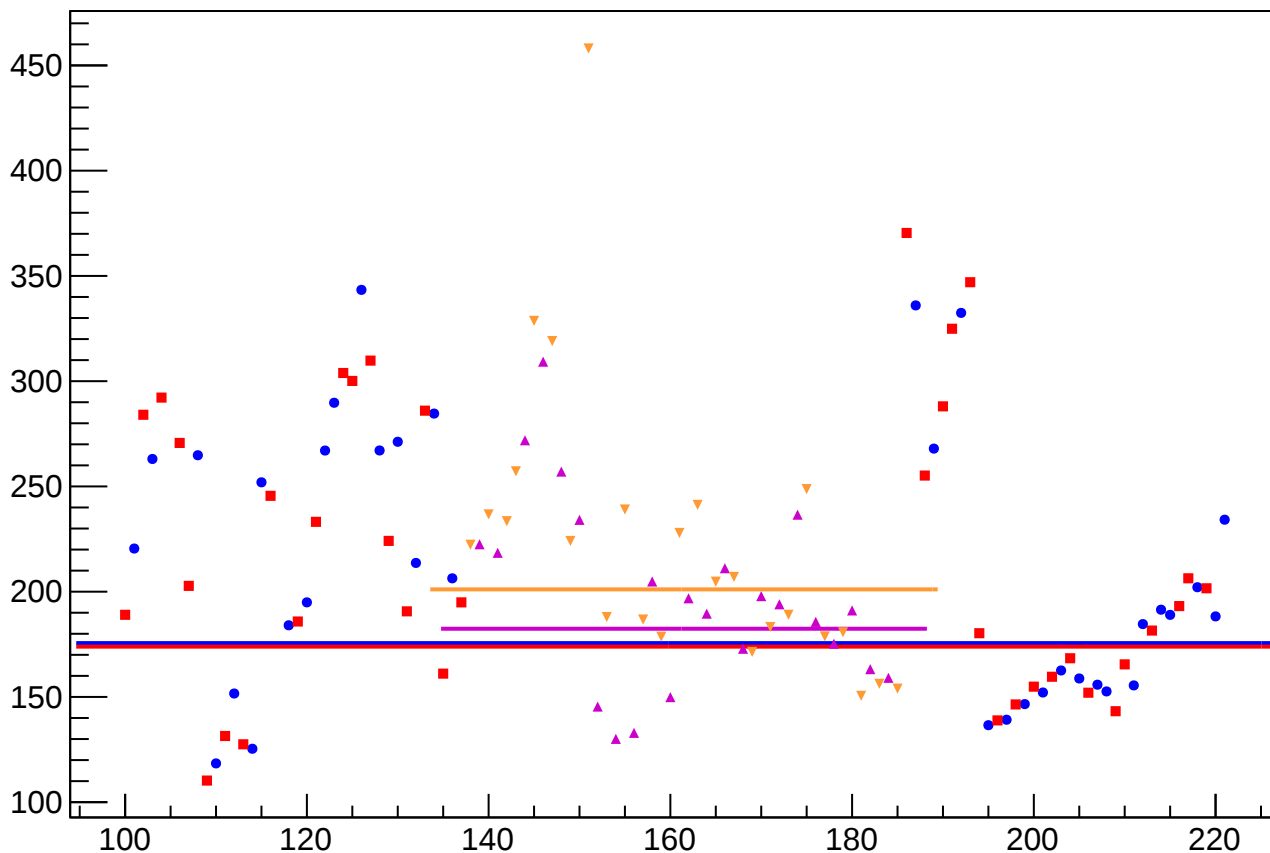
Right: -67.463 ± 29.117 $\chi^2/\text{NDF}: 34.9/71$

In: -18.484 ± 30.448 $\chi^2/\text{NDF}: 27.6/57$

Out: -33.635 ± 31.505 $\chi^2/\text{NDF}: 26.3/61$

All: -25.802 ± 21.894 $\chi^2/\text{NDF}: 54.0/119$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.570 $\pm$ 0.029 χ^2 /NDF: 2308018.7/34

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 173.897 $\pm$ 0.029 χ^2 /NDF: 2870249.6/36

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

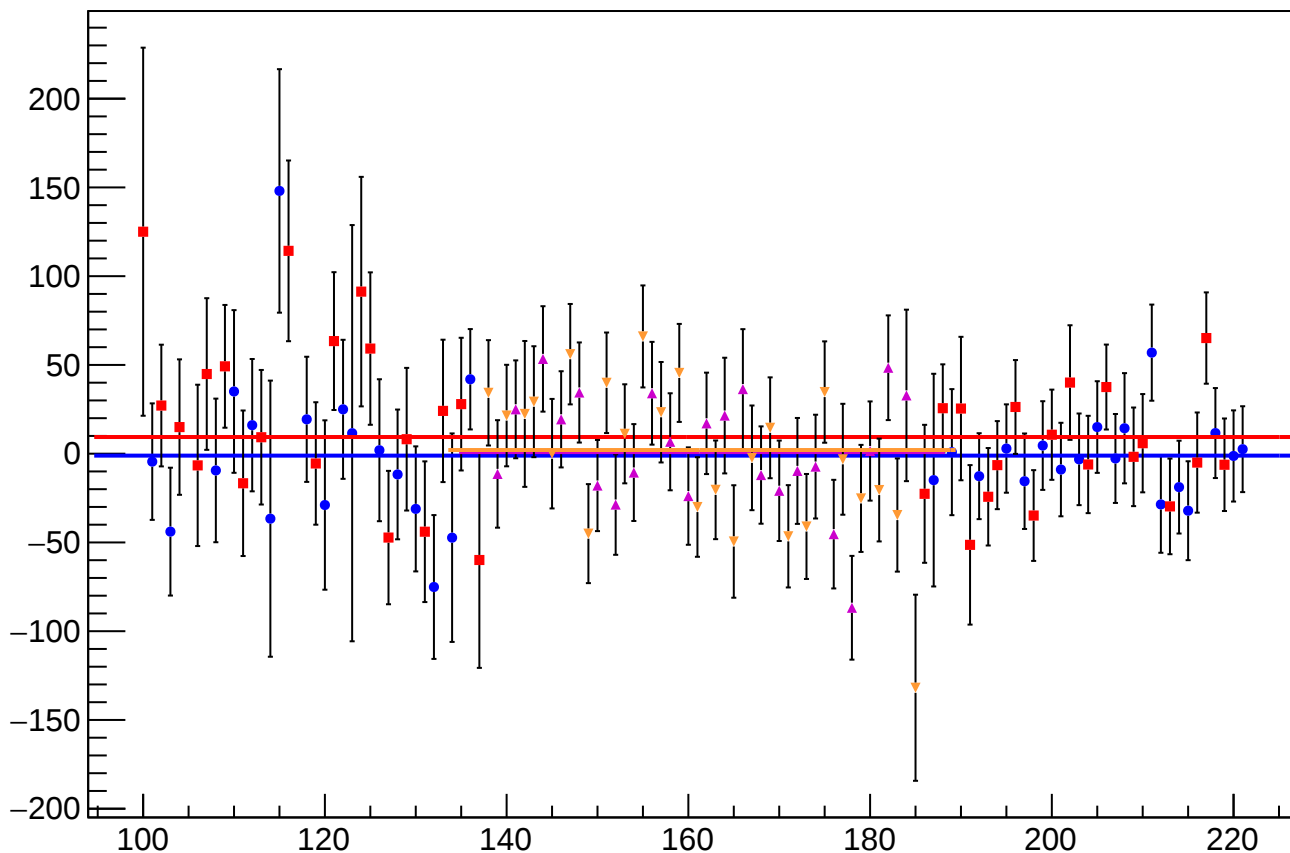
Right: 174.744 $\pm$ 0.021 χ^2 /NDF: 5179918.2/71

In: 178.617 $\pm$ 0.022 χ^2 /NDF:3881770.5/57

Out: 185.370 $\pm$ 0.022 χ^2 /NDF:4964766.7/61

All: 181.879 $\pm$ 0.015 χ^2 /NDF: 8894051.3/119

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.092 ± 5.354 $\chi^2/\text{NDF}: 24.4/34$

Left Out: 2.054 ± 5.970 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 9.391 ± 5.410 $\chi^2/\text{NDF}: 37.8/36$

Left In: 0.900 ± 6.069 $\chi^2/\text{NDF}: 27.1/22$

Left: 1.487 ± 4.256 $\chi^2/\text{NDF}: 66.5/47$

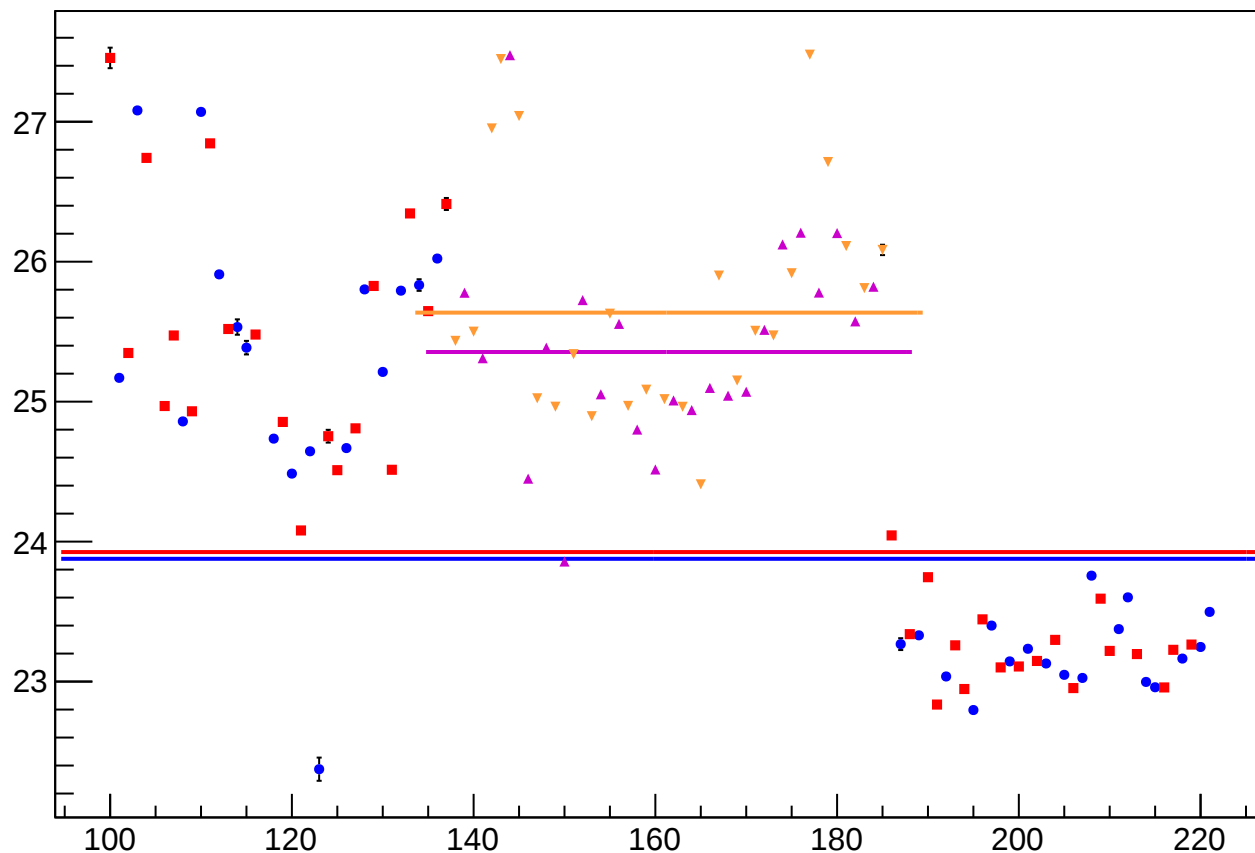
Right: 4.095 ± 3.806 $\chi^2/\text{NDF}: 64.1/71$

In: -0.220 ± 4.015 $\chi^2/\text{NDF}: 51.6/57$

Out: 6.083 ± 4.009 $\chi^2/\text{NDF}: 78.0/61$

All: 2.936 ± 2.837 $\chi^2/\text{NDF}: 130.8/119$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.877 $\pm$ 0.004 χ^2 /NDF: 92755.8/34

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 23.925 $\pm$ 0.004 χ^2 /NDF: 85800.7/36

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF: 29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

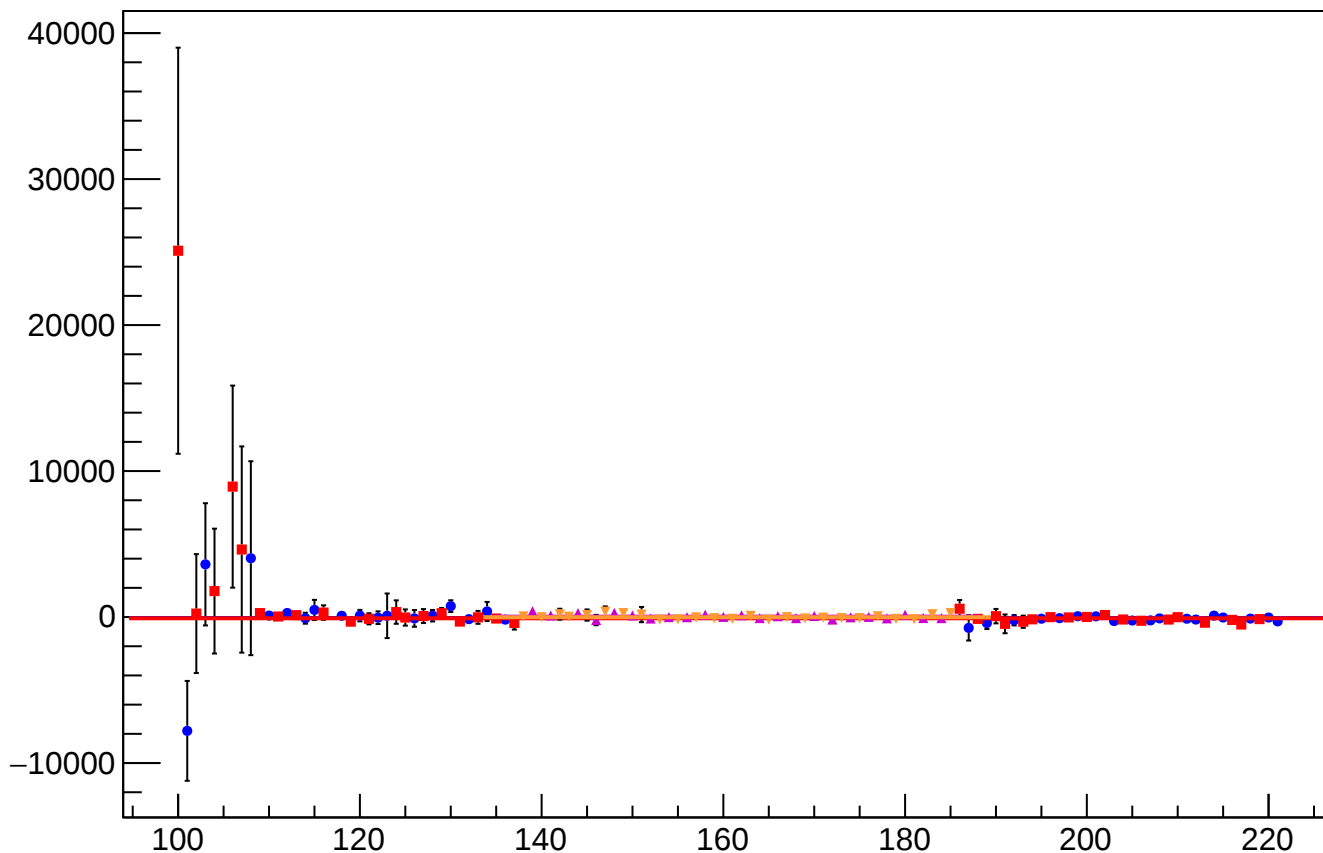
Right: 23.901 $\pm$ 0.003 χ^2 /NDF: 178636.8/71

In: 24.524 $\pm$ 0.003 χ^2 /NDF: 189183.6/57

Out: 24.697 $\pm$ 0.003 χ^2 /NDF: 211098.3/61

All: 24.610 $\pm$ 0.002 χ^2 /NDF: 402141.4/119

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.527+/-42.597 χ^2/NDF : 22.9/34

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -84.771+/-43.767 χ^2/NDF : 24.4/36

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

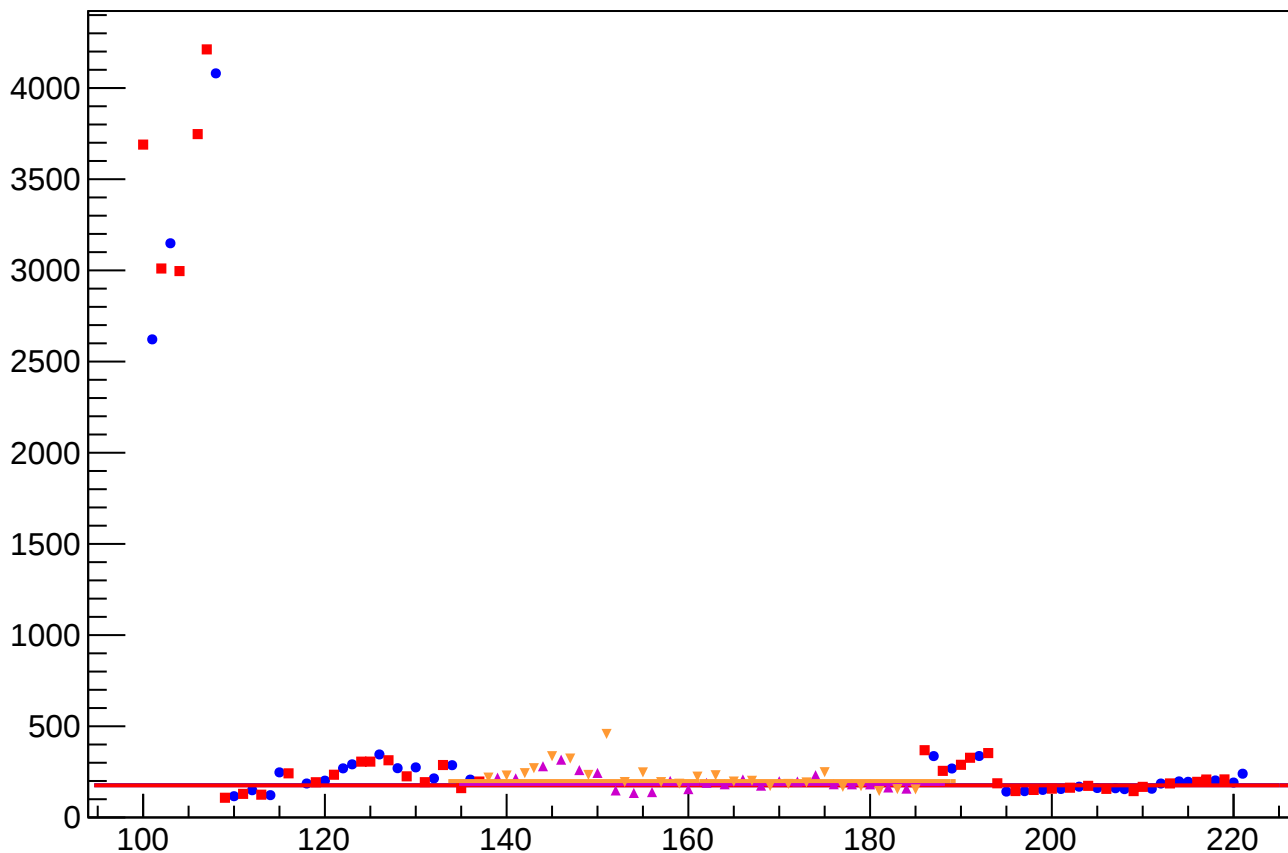
Right: -74.374+/-30.526 χ^2/NDF : 47.4/71

In: -22.227+/-31.215 χ^2/NDF : 32.5/57

Out: -52.267+/-32.407 χ^2/NDF : 33.5/61

All: -36.684+/-22.482 χ^2/NDF : 66.5/119

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.861 $\pm$ 0.030 χ^2 /NDF: 4733552.7/34

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 175.958 $\pm$ 0.031 χ^2 /NDF: 5501459.4/36

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

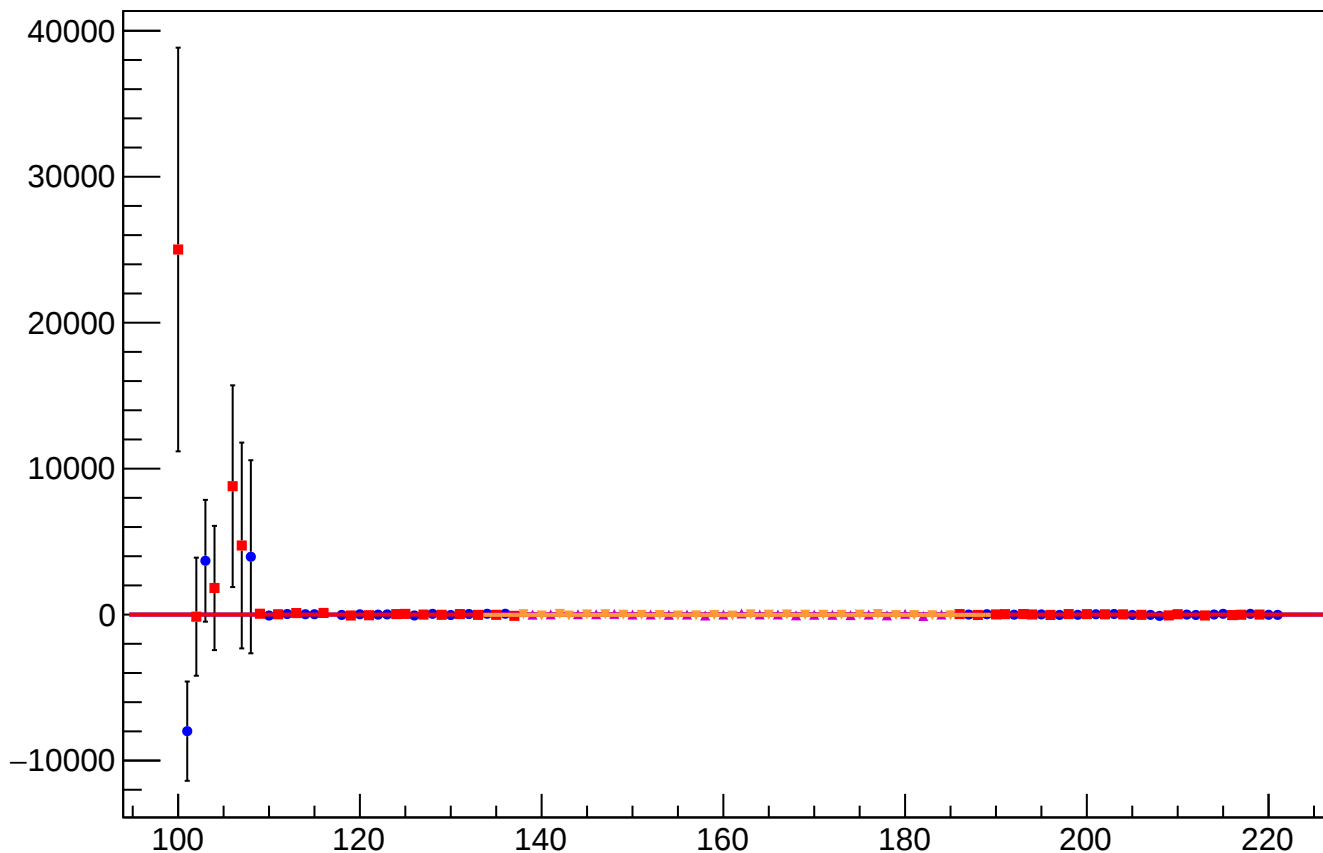
Right: 176.422 $\pm$ 0.022 χ^2 /NDF: 10235449.7/71

In: 180.181 $\pm$ 0.022 χ^2 /NDF:6183242.5/57

Out: 186.609 $\pm$ 0.023 χ^2 /NDF:7644198.4/61

All: 183.275 $\pm$ 0.016 χ^2 /NDF: 13868258.4/13

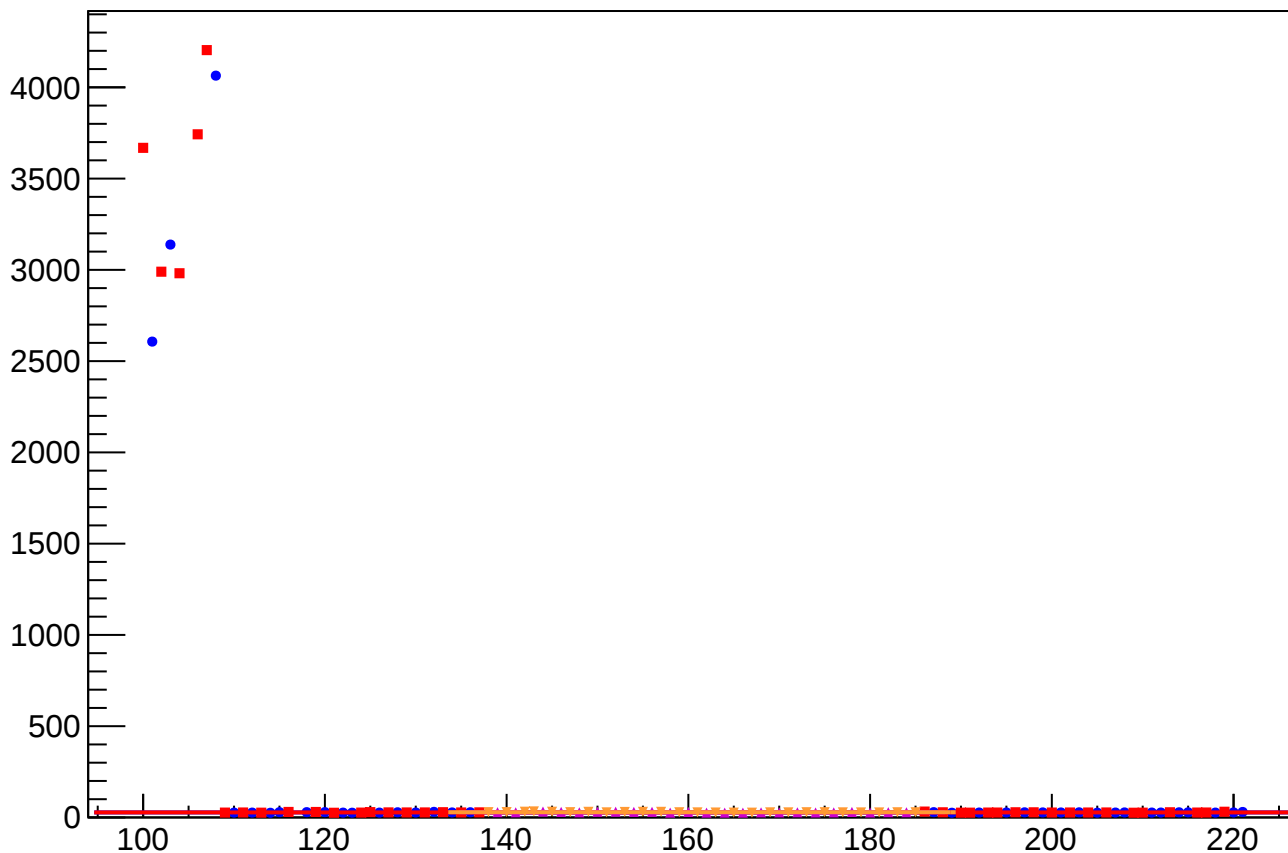
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.573+/-6.432 χ^2/NDF : 37.0/34
 Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24
 Right Out: 3.158+/-6.587 χ^2/NDF : 39.9/36
 Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47
 Right: 2.859+/-4.602 χ^2/NDF : 76.9/71
 In: 1.857+/-4.699 χ^2/NDF : 69.4/57
 Out: -7.044+/-4.695 χ^2/NDF : 67.1/61
 All: -2.597+/-3.321 χ^2/NDF : 138.4/119

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.584 $\pm$ 0.005 χ^2 /NDF: 3059875.6/34

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.563 $\pm$ 0.005 χ^2 /NDF: 3537879.1/36

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

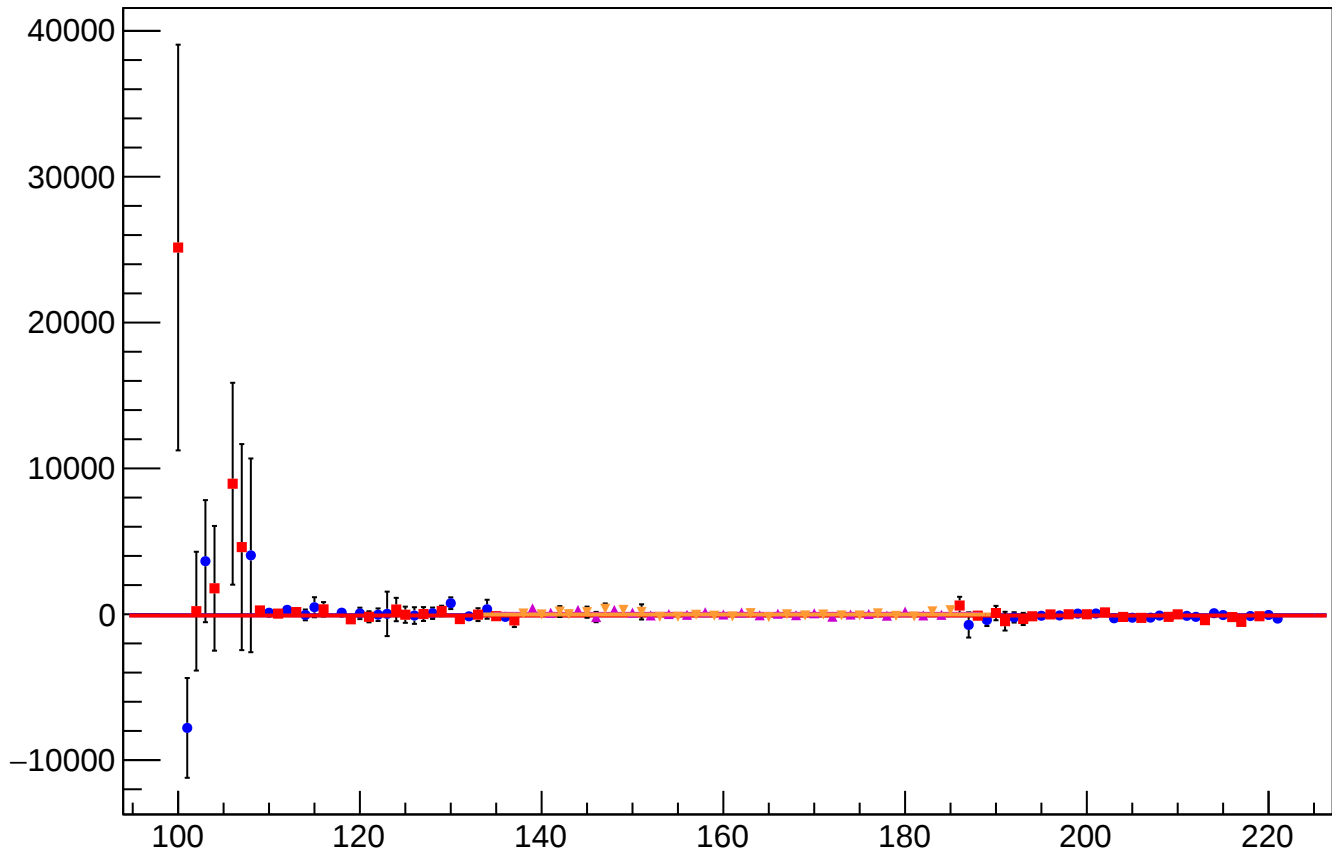
Right: 27.573 $\pm$ 0.003 χ^2 /NDF: 6597765.0/71

In: 28.092 $\pm$ 0.003 χ^2 /NDF: 3211371.0/57

Out: 28.118 $\pm$ 0.003 χ^2 /NDF: 3677220.9/61

All: 28.105 $\pm$ 0.002 χ^2 /NDF: 6888622.9/119

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.906 ± 42.466 χ^2/NDF : 23.0/34

Left Out: -15.483 ± 48.109 χ^2/NDF : 8.7/24

Right Out: -87.186 ± 43.641 χ^2/NDF : 25.5/36

Left In: 27.009 ± 45.785 χ^2/NDF : 7.8/22

Left: 6.815 ± 33.166 χ^2/NDF : 16.9/47

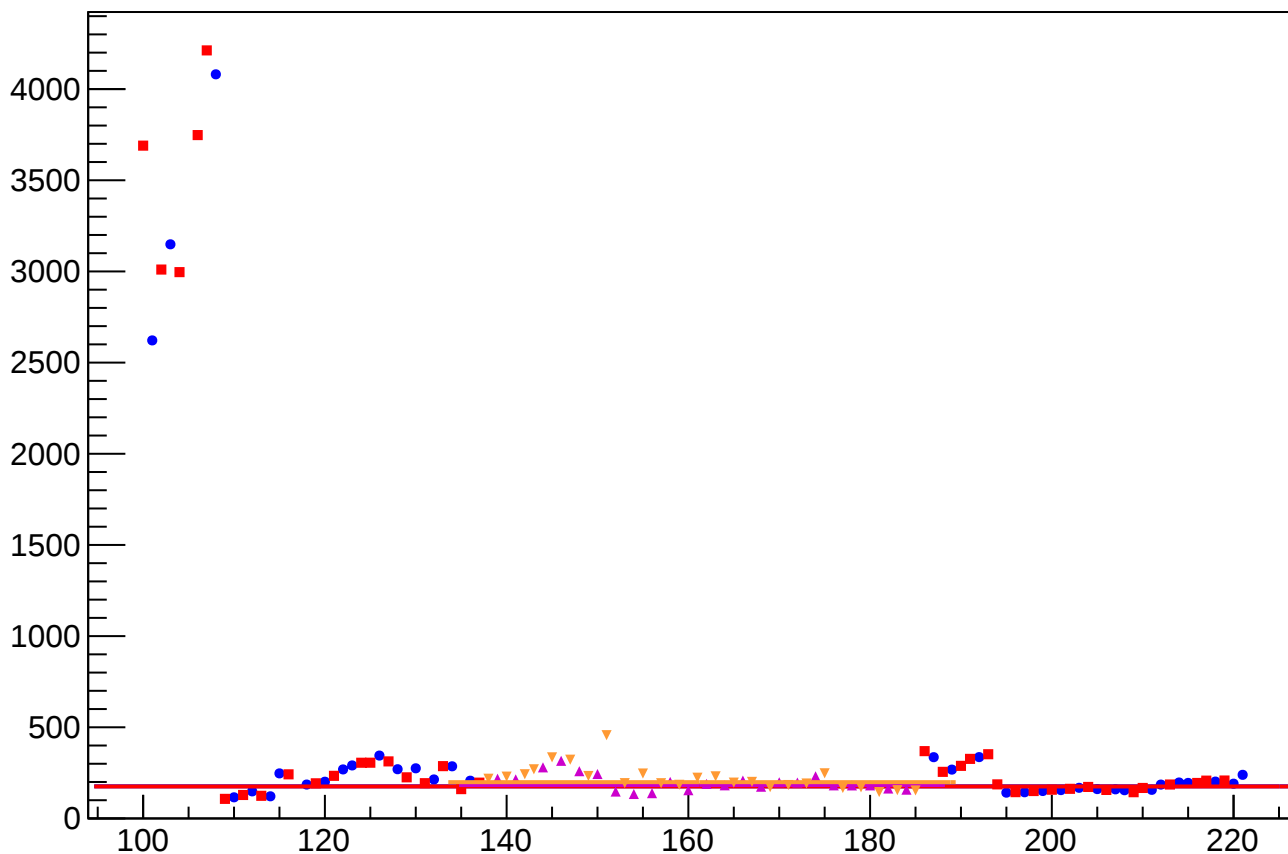
Right: -76.256 ± 30.435 χ^2/NDF : 48.7/71

In: -22.937 ± 31.135 χ^2/NDF : 33.1/57

Out: -54.818 ± 32.323 χ^2/NDF : 35.4/61

All: -38.281 ± 22.424 χ^2/NDF : 69.0/119

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.284 $\pm$ 0.030 χ^2 /NDF: 4747438.8/34

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 175.401 $\pm$ 0.031 χ^2 /NDF: 5519608.0/36

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

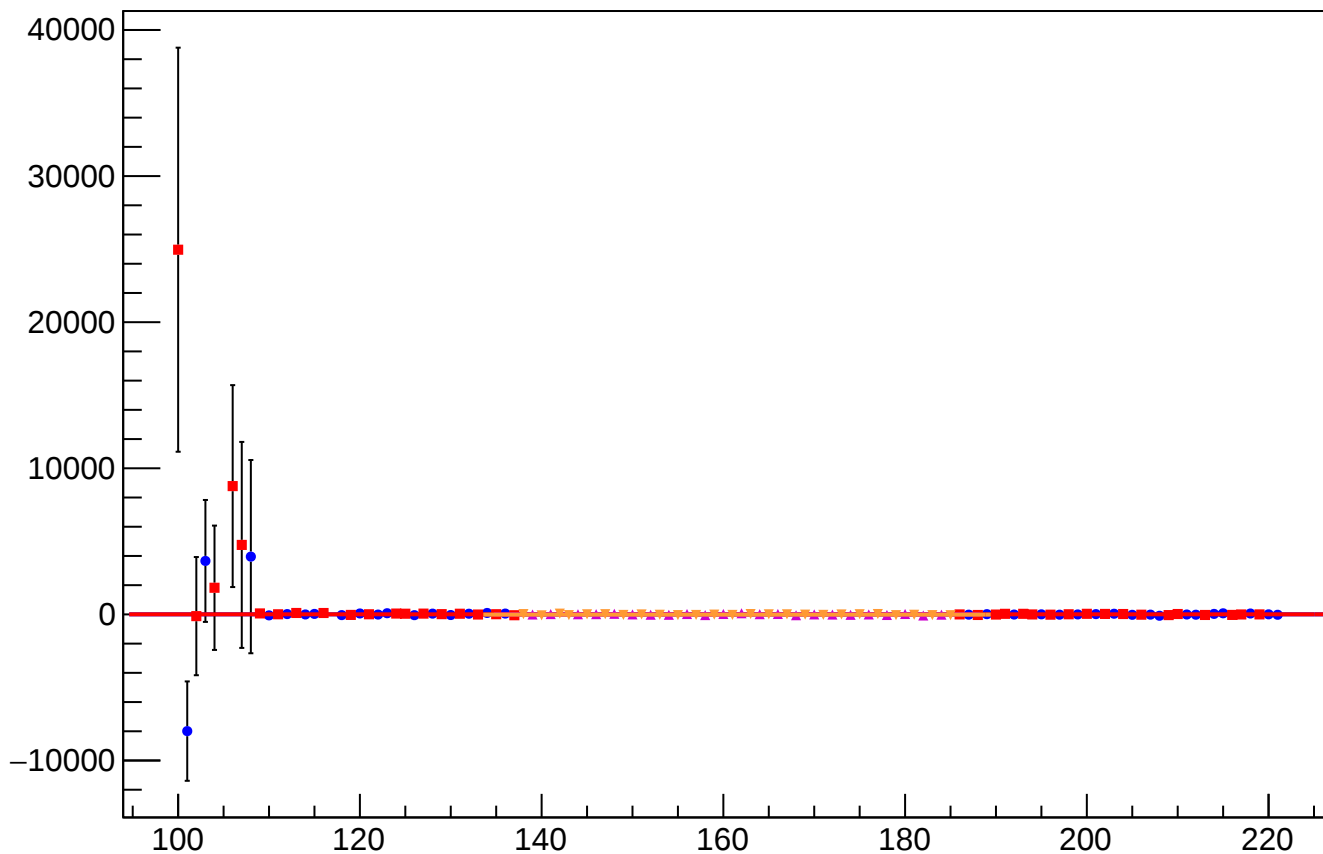
Right: 175.854 $\pm$ 0.022 χ^2 /NDF: 10267467.1/71

In: 179.698 $\pm$ 0.022 χ^2 /NDF:6198293.5/57

Out: 186.096 $\pm$ 0.023 χ^2 /NDF:7666056.9/61

All: 182.778 $\pm$ 0.016 χ^2 /NDF: 13904996.8/131

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.737+/-6.388 χ^2/NDF : 46.1/34

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 6.231+/-6.551 χ^2/NDF : 34.9/36

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

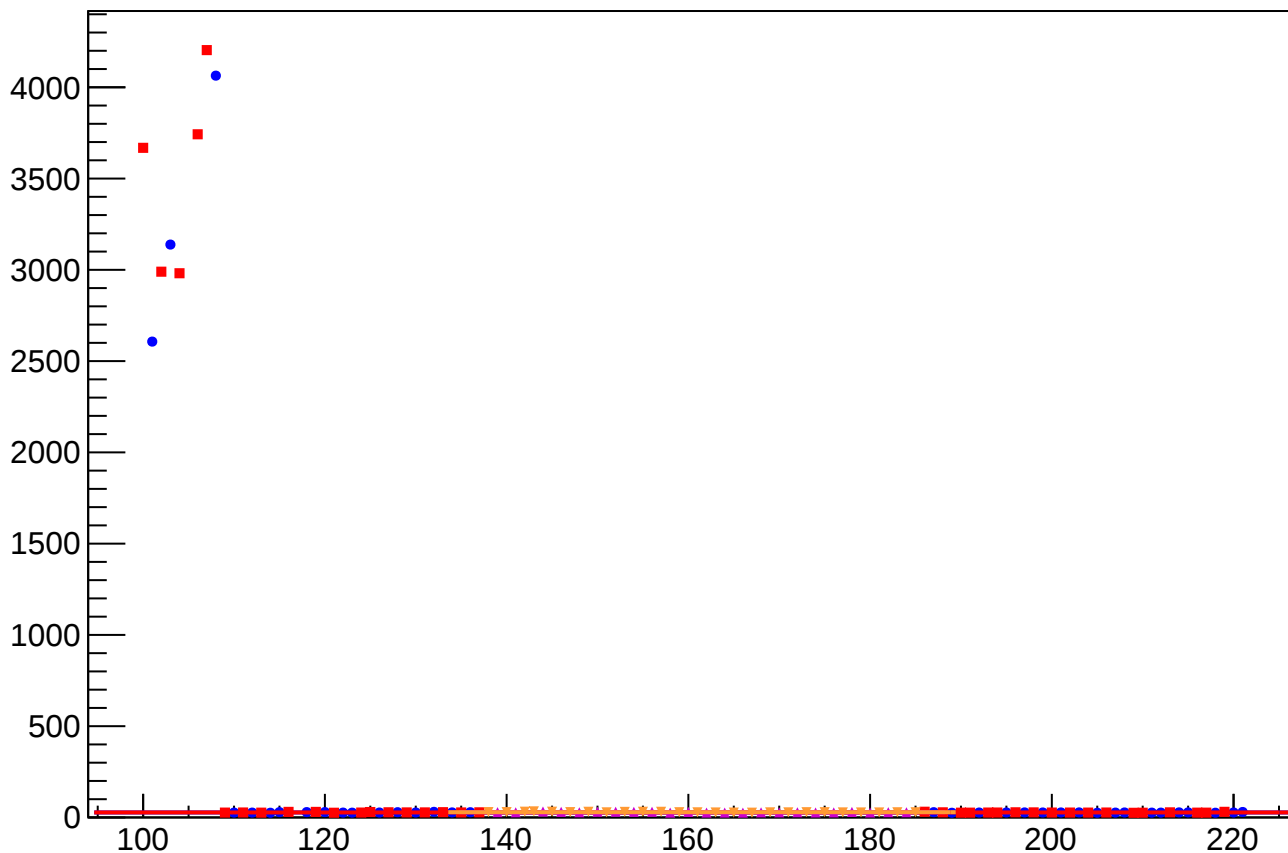
Right: 4.953+/-4.573 χ^2/NDF : 81.0/71

In: 1.691+/-4.690 χ^2/NDF : 72.6/57

Out: -4.112+/-4.692 χ^2/NDF : 57.5/61

All: -1.209+/-3.317 χ^2/NDF : 130.9/119

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.388 $\pm$ 0.005 χ^2 /NDF: 3071301.7/34

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.411 $\pm$ 0.005 χ^2 /NDF: 3541418.1/36

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

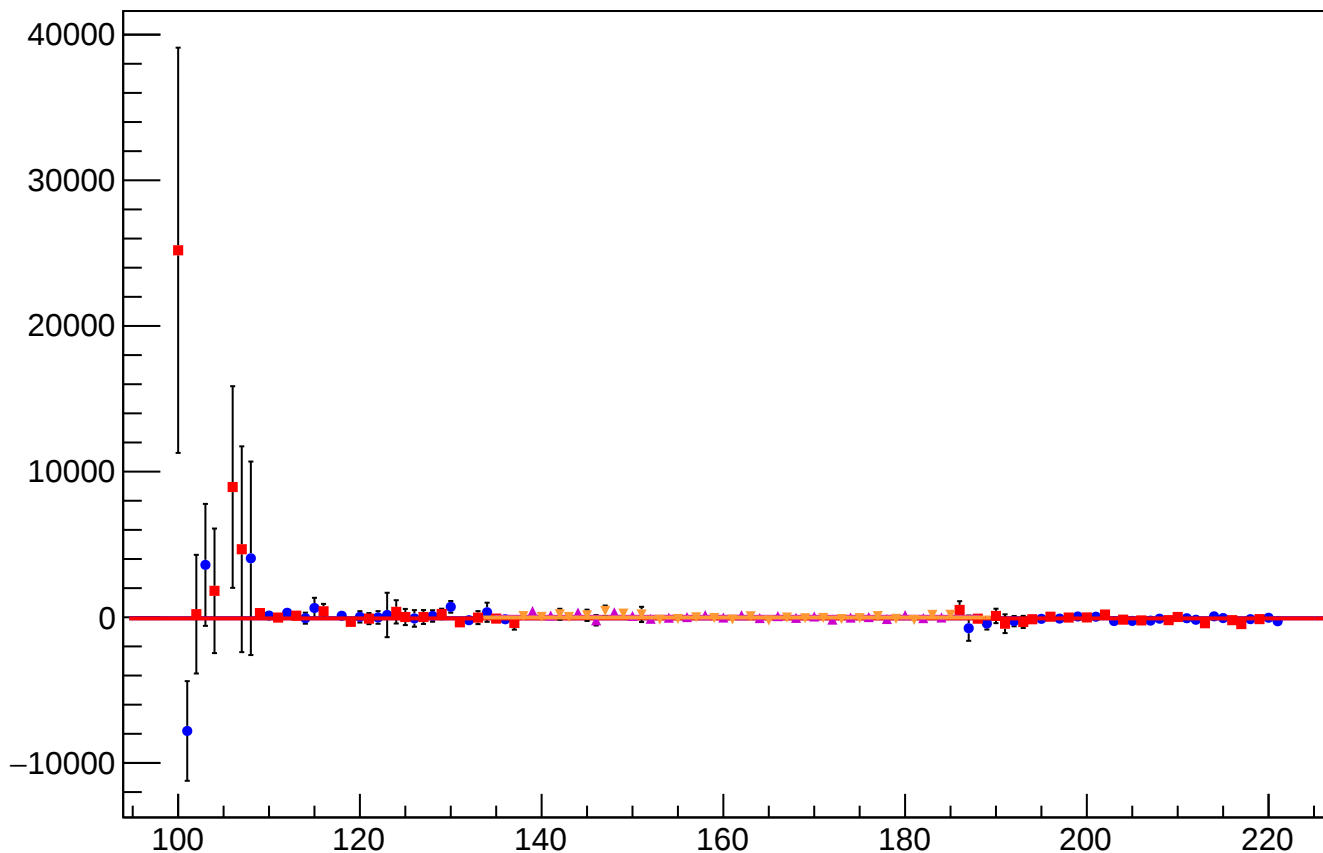
Right: 27.399 $\pm$ 0.003 χ^2 /NDF: 6612732.0/71

In: 28.035 $\pm$ 0.003 χ^2 /NDF: 3245251.3/57

Out: 28.093 $\pm$ 0.003 χ^2 /NDF: 3708008.4/61

All: 28.064 $\pm$ 0.002 χ^2 /NDF: 6953413.8/119

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.001 $\pm$ 42.756 χ^2 /NDF: 23.0/34

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -78.528 $\pm$ 43.957 χ^2 /NDF: 24.3/36

Left In: 31.170 $\pm$ 46.359 χ^2 /NDF:8.2/22

Left: 8.955 $\pm$ 33.574 χ^2 /NDF: 16.6/47

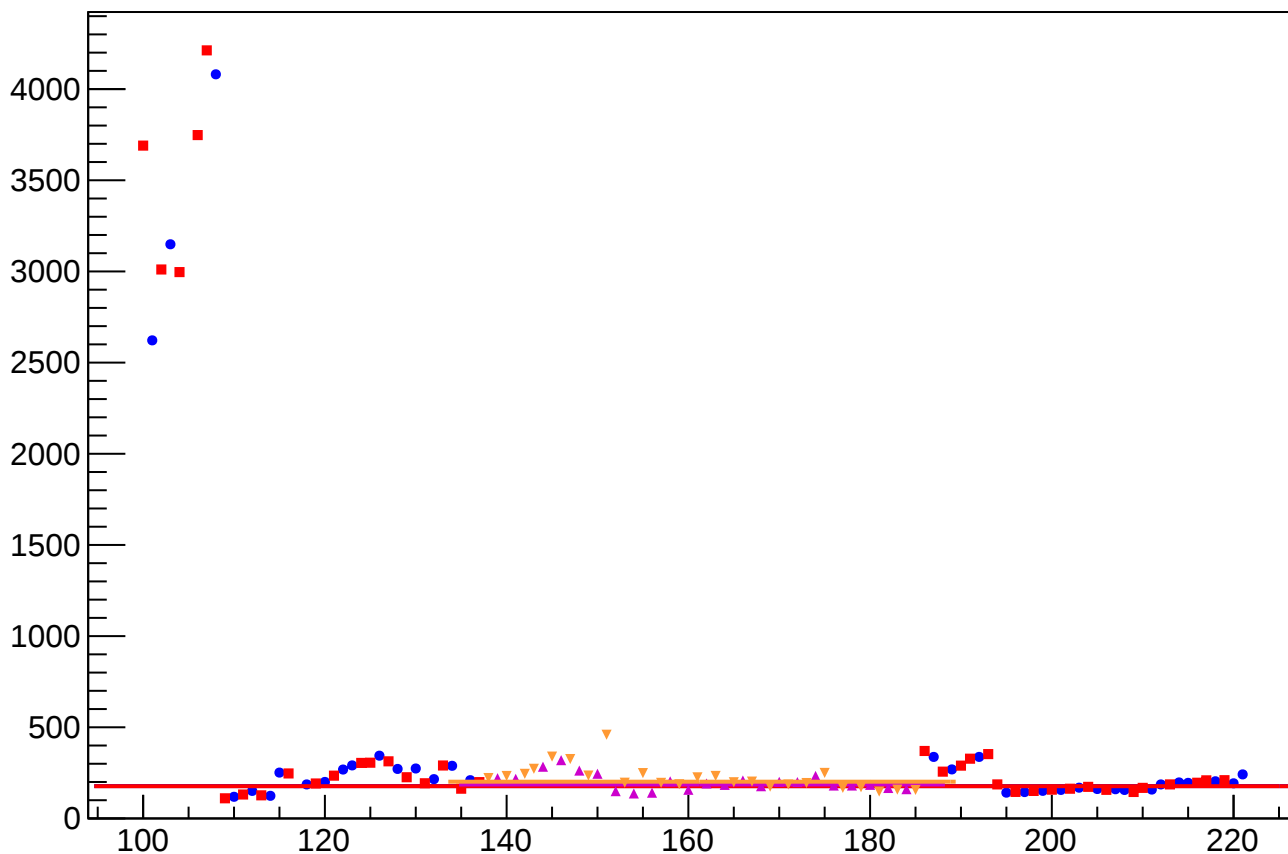
Right: -71.063 $\pm$ 30.649 χ^2 /NDF: 47.4/71

In: -20.257 $\pm$ 31.430 χ^2 /NDF:33.4/57

Out: -50.246 $\pm$ 32.627 χ^2 /NDF:33.2/61

All: -34.691 $\pm$ 22.636 χ^2 /NDF: 67.1/119

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.573+/-0.030 χ^2/NDF : 4714895.4/34

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 176.850+/-0.031 χ^2/NDF : 5459461.5/36

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

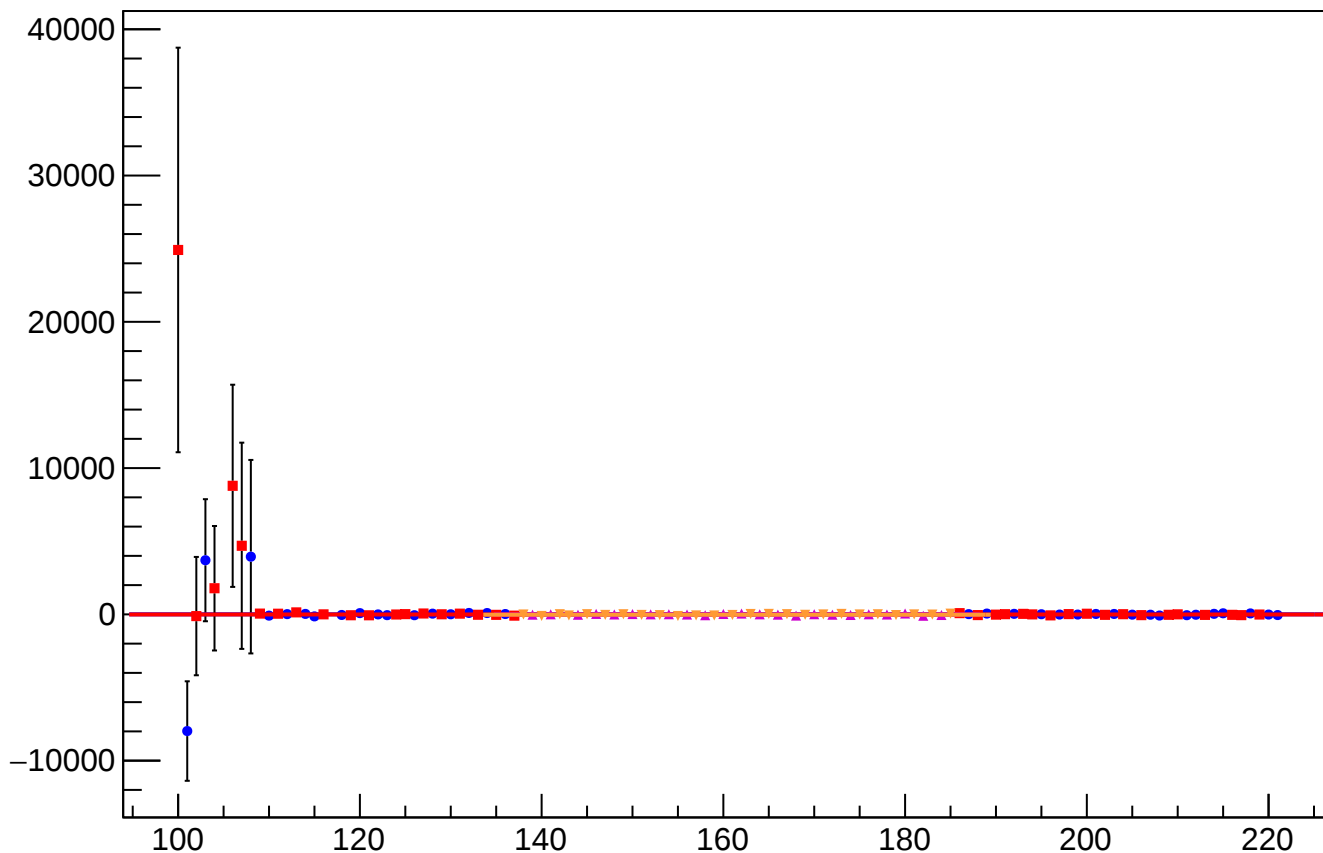
Right: 177.222+/-0.022 χ^2/NDF : 10174634.5/71

In: 181.496+/-0.022 χ^2/NDF :6142845.2/57

Out: 187.965+/-0.023 χ^2/NDF :7601639.5/61

All: 184.609+/-0.016 χ^2/NDF : 13785266.0/137

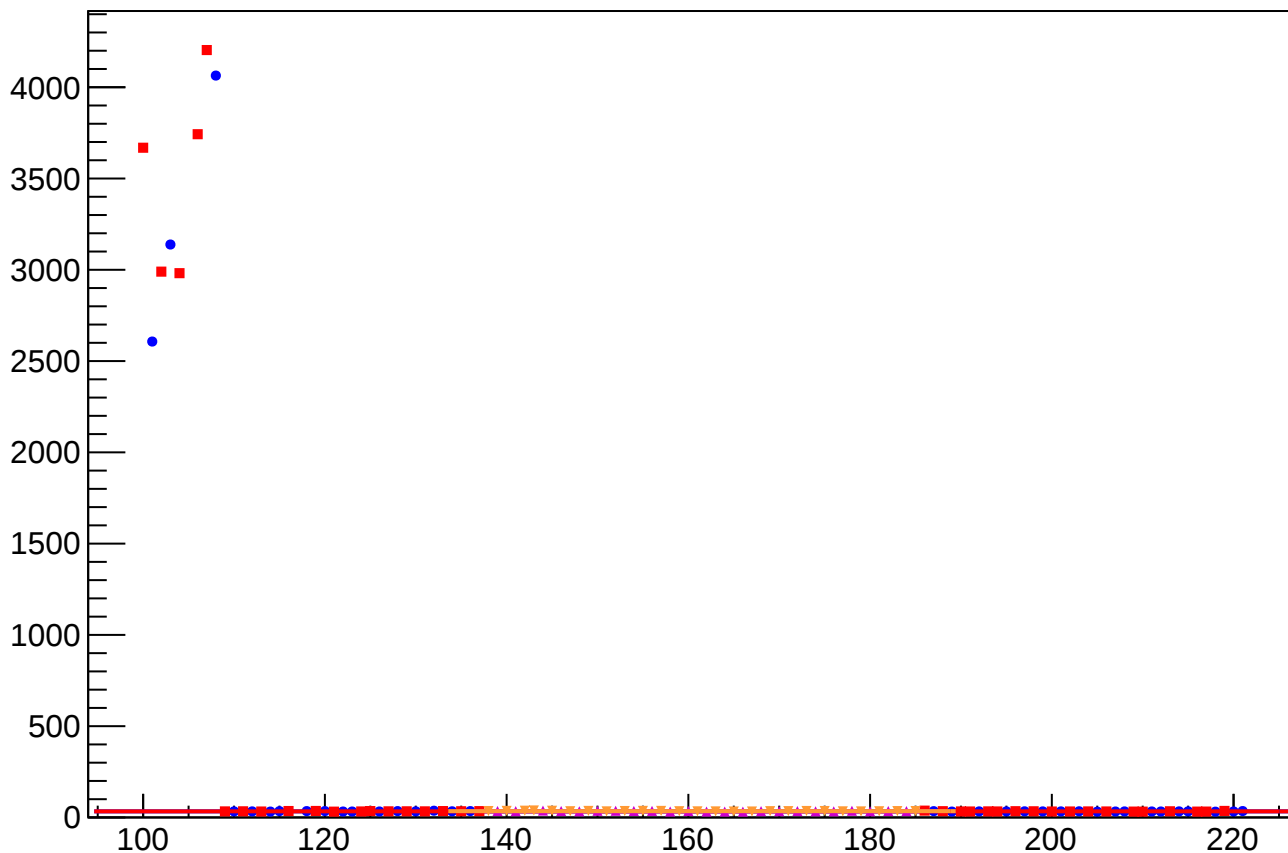
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.843 ± 7.774 $\chi^2/\text{NDF}: 40.2/34$
 Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$
 Right Out: -6.542 ± 7.979 $\chi^2/\text{NDF}: 38.1/36$
 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: -1.214 ± 5.568 $\chi^2/\text{NDF}: 79.2/71$
 In: -0.752 ± 5.677 $\chi^2/\text{NDF}: 62.1/57$
 Out: -14.862 ± 5.672 $\chi^2/\text{NDF}: 66.1/61$
 All: -7.813 ± 4.012 $\chi^2/\text{NDF}: 131.4/119$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.360 $\pm$ 0.005 χ^2 /NDF: 3029680.4/34

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.439 $\pm$ 0.006 χ^2 /NDF: 3485640.8/36

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

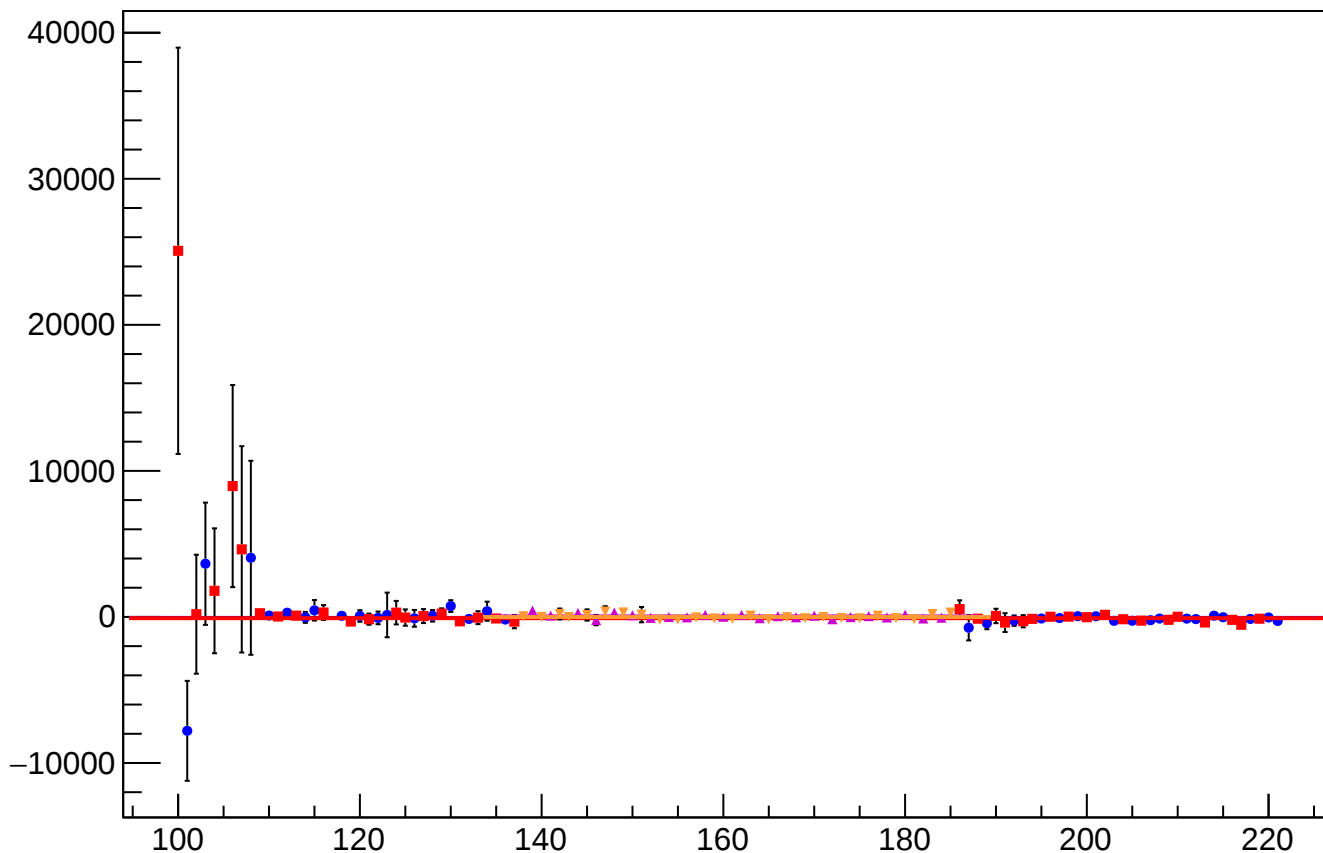
Right: 33.399 $\pm$ 0.004 χ^2 /NDF: 6515421.6/71

In: 33.979 $\pm$ 0.004 χ^2 /NDF: 3117101.9/57

Out: 34.021 $\pm$ 0.004 χ^2 /NDF: 3565044.3/61

All: 34.000 $\pm$ 0.003 χ^2 /NDF: 6682200.7/119

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -67.088 $\pm$ 42.637 χ^2 /NDF: 22.8/34

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF: 8.6/24

Right Out: -84.262 $\pm$ 43.800 χ^2 /NDF: 23.6/36

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF: 7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

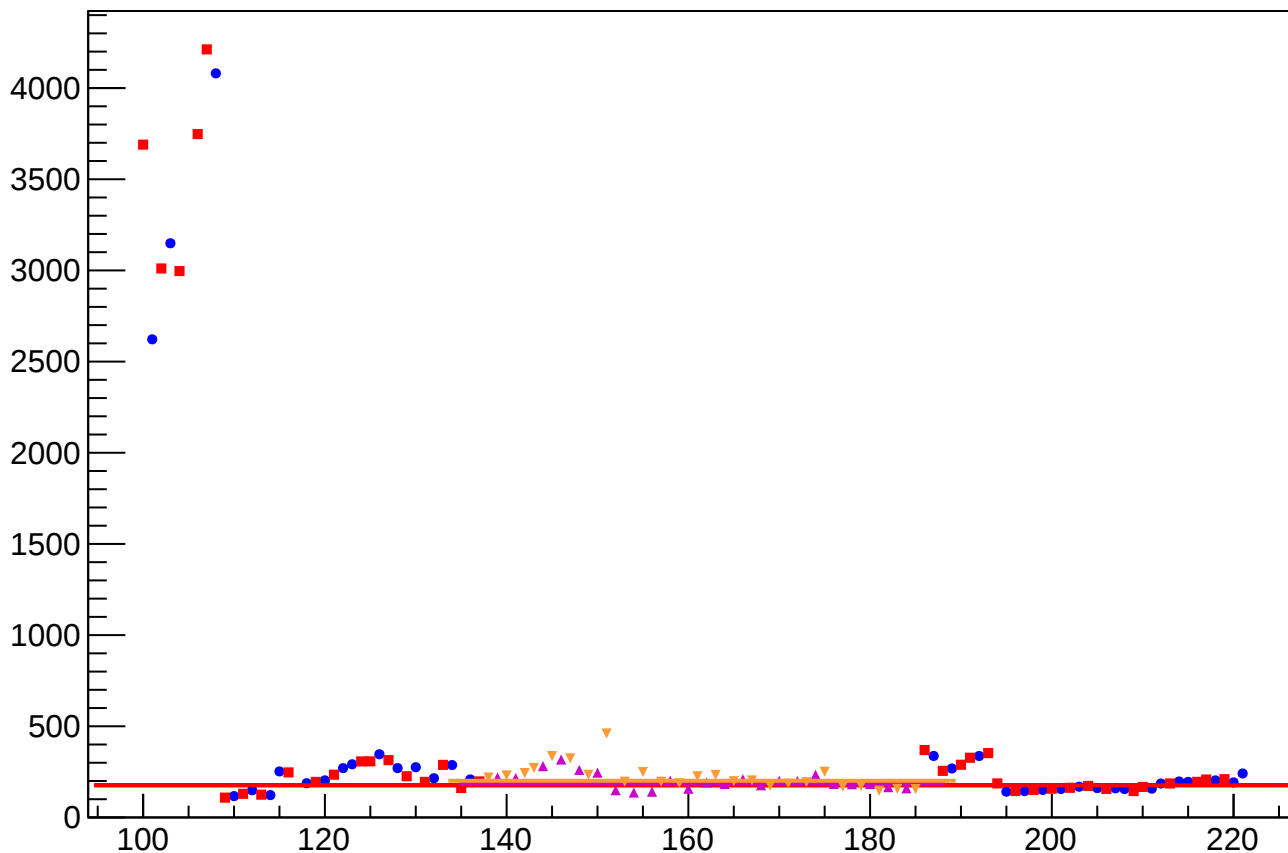
Right: -75.444 $\pm$ 30.552 χ^2 /NDF: 46.4/71

In: -20.639 $\pm$ 31.363 χ^2 /NDF: 32.8/57

Out: -50.504 $\pm$ 32.541 χ^2 /NDF: 33.5/61

All: -35.021 $\pm$ 22.582 χ^2 /NDF: 66.7/119

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.002 $\pm$ 0.030 χ^2/NDF : 4746001.8/34

Left Out: 201.296 $\pm$ 0.034 χ^2/NDF : 1851134.1/24

Right Out: 176.080 $\pm$ 0.031 χ^2/NDF : 5509417.2/36

Left In: 185.854 $\pm$ 0.033 χ^2/NDF : 1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2/NDF : 3338733.9/47

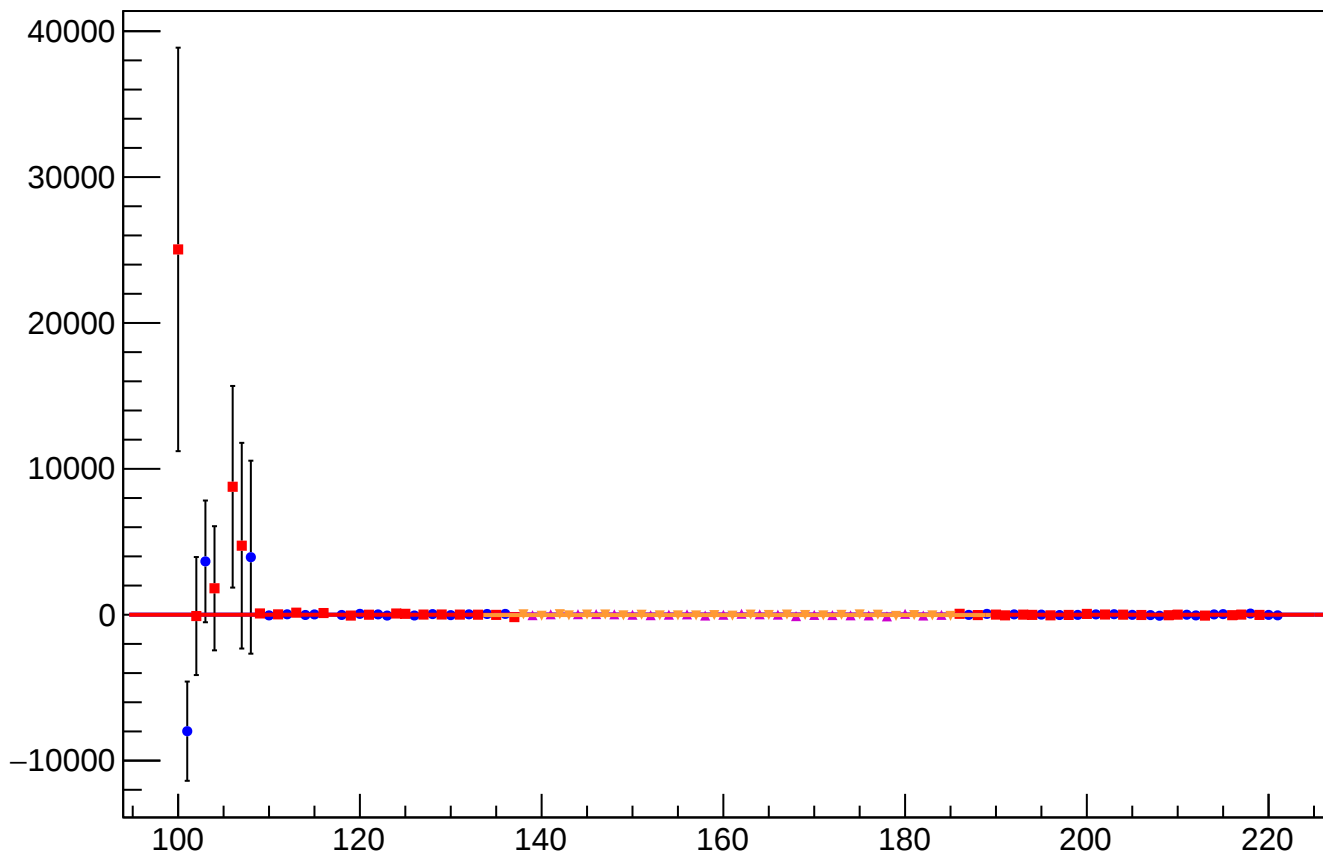
Right: 176.553 $\pm$ 0.022 χ^2/NDF : 10255874.3/71

In: 181.064 $\pm$ 0.022 χ^2/NDF : 6167337.5/57

Out: 187.378 $\pm$ 0.023 χ^2/NDF : 7657565.1/61

All: 184.105 $\pm$ 0.016 χ^2/NDF : 13863934.4/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.717+/-7.035 χ^2/NDF : 34.4/34

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 0.398+/-7.220 χ^2/NDF : 42.9/36

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

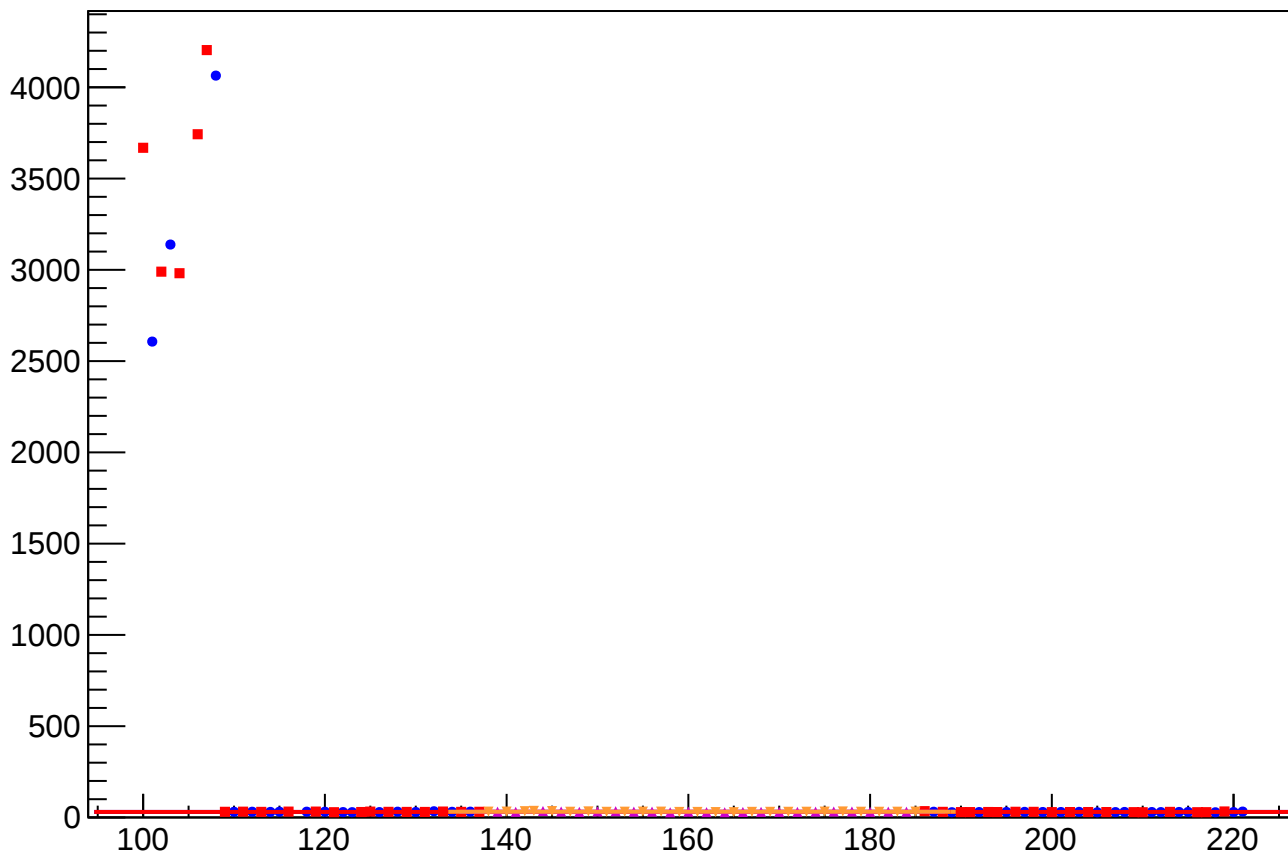
Right: 3.127+/-5.039 χ^2/NDF : 77.6/71

In: 0.298+/-5.147 χ^2/NDF : 74.1/57

Out: -11.048+/-5.147 χ^2/NDF : 66.8/61

All: -5.374+/-3.639 χ^2/NDF : 143.3/119

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.176 $\pm$ 0.005 χ^2 /NDF: 3052757.7/34

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.231 $\pm$ 0.005 χ^2 /NDF: 3508630.3/36

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

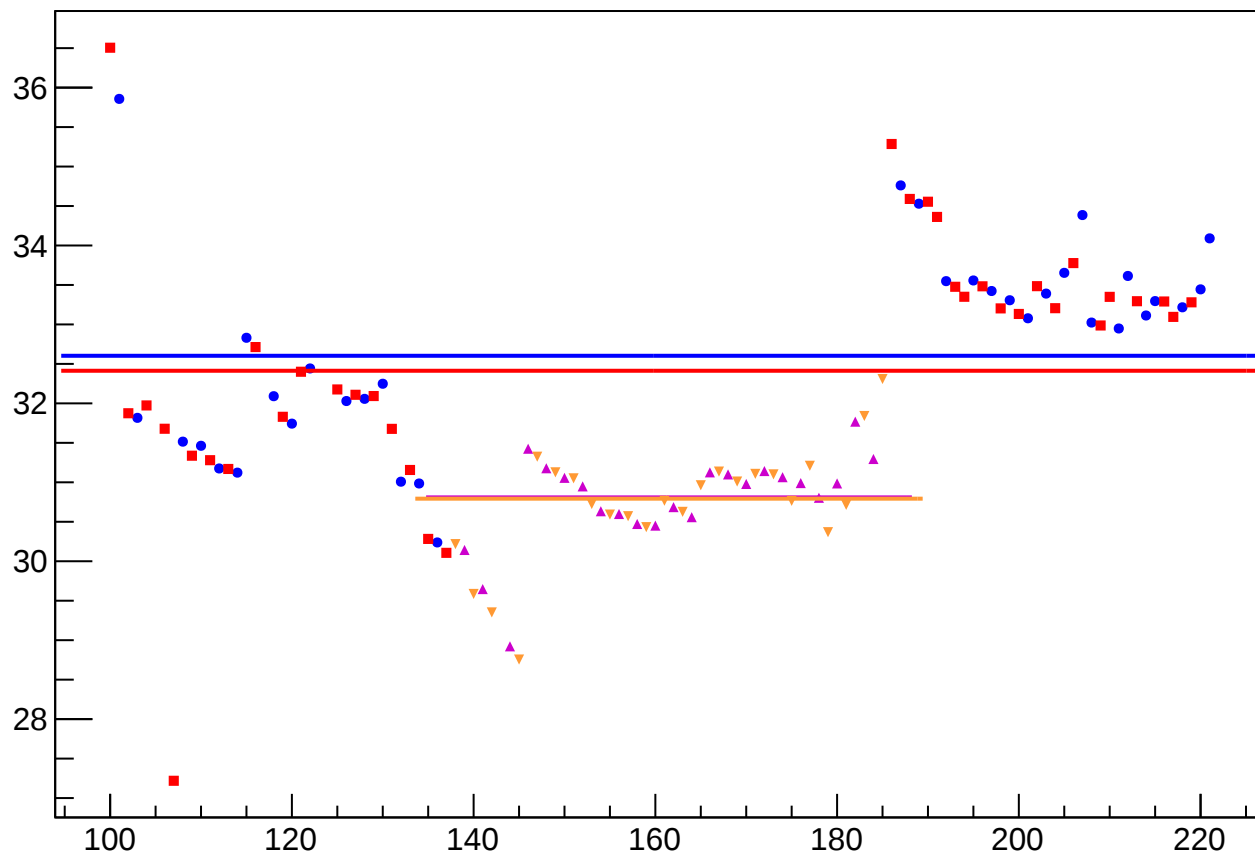
Right: 30.202 $\pm$ 0.004 χ^2 /NDF: 6561446.9/71

In: 30.784 $\pm$ 0.004 χ^2 /NDF:3172899.6/57

Out: 30.846 $\pm$ 0.004 χ^2 /NDF:3620603.6/61

All: 30.815 $\pm$ 0.003 χ^2 /NDF: 6793647.2/119

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.603+/-0.000

χ^2/NDF : 3370699817.0/33

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right Out: 32.413+/-0.000

χ^2/NDF : 2719568705.6/35

Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Right: 32.513+/-0.000

χ^2/NDF : 6129905652.6/69

In: 31.644+/-0.000

χ^2/NDF : 8185365756.2/56

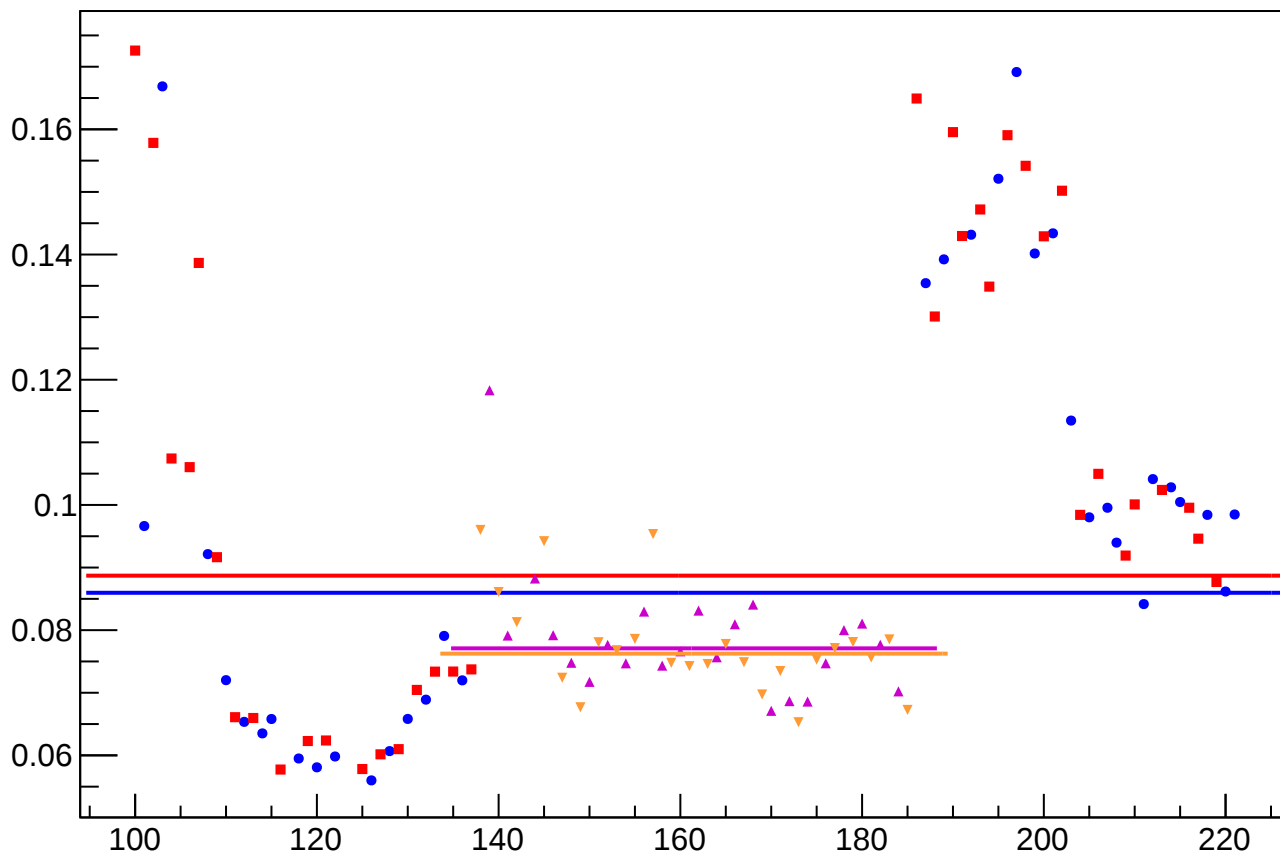
Out: 31.491+/-0.000

χ^2/NDF : 6851502335.2/59

All: 31.569+/-0.000

χ^2/NDF : 15094297063.6

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 3333816.6/33

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3682932.1/35

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

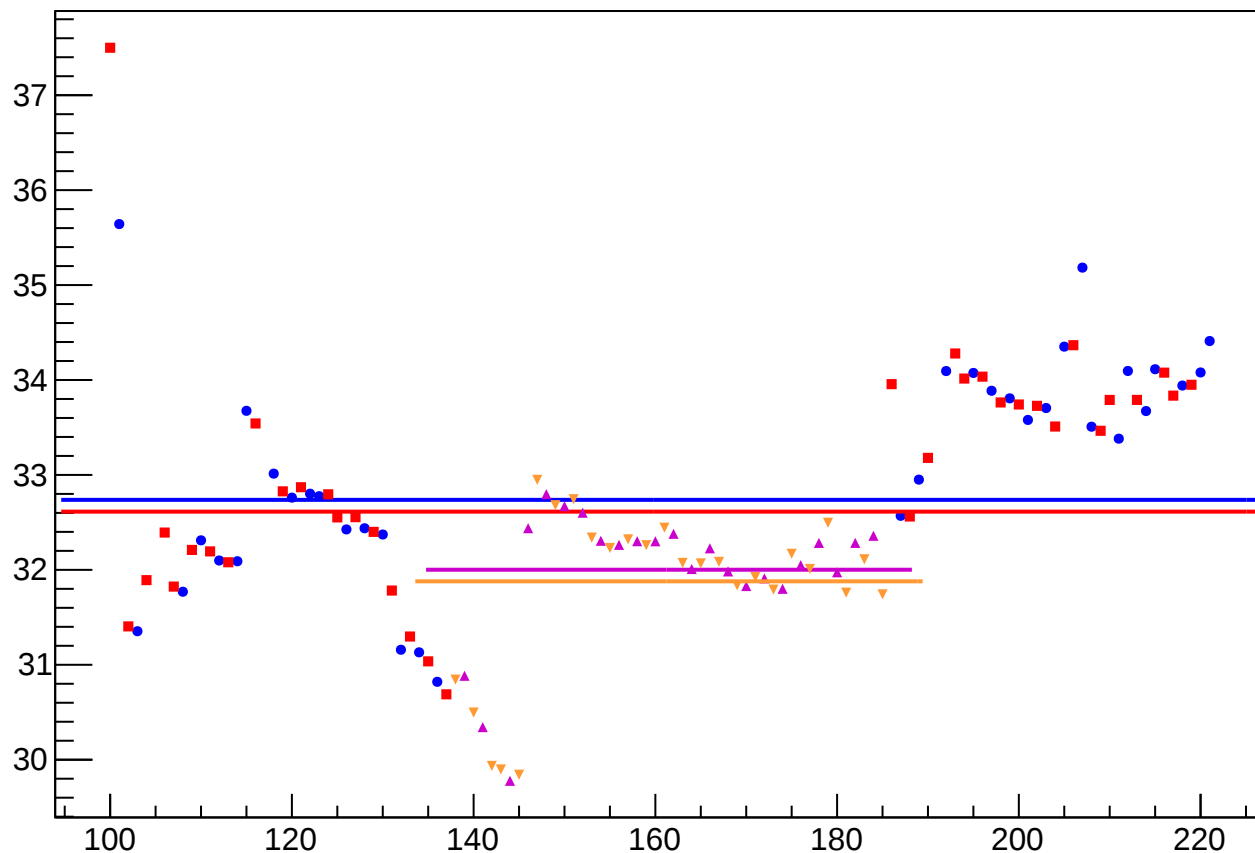
Right: 0.087+/-0.000 χ^2/NDF : 7033218.3/69

In: 0.081+/-0.000 χ^2/NDF : 3855343.5/56

Out: 0.082+/-0.000 χ^2/NDF : 4330112.4/59

All: 0.081+/-0.000 χ^2/NDF : 8186226.2/116

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.737+/-0.000 χ^2/NDF : 1841948196.4/34

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.613+/-0.000 χ^2/NDF : 1079560555.3/35

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

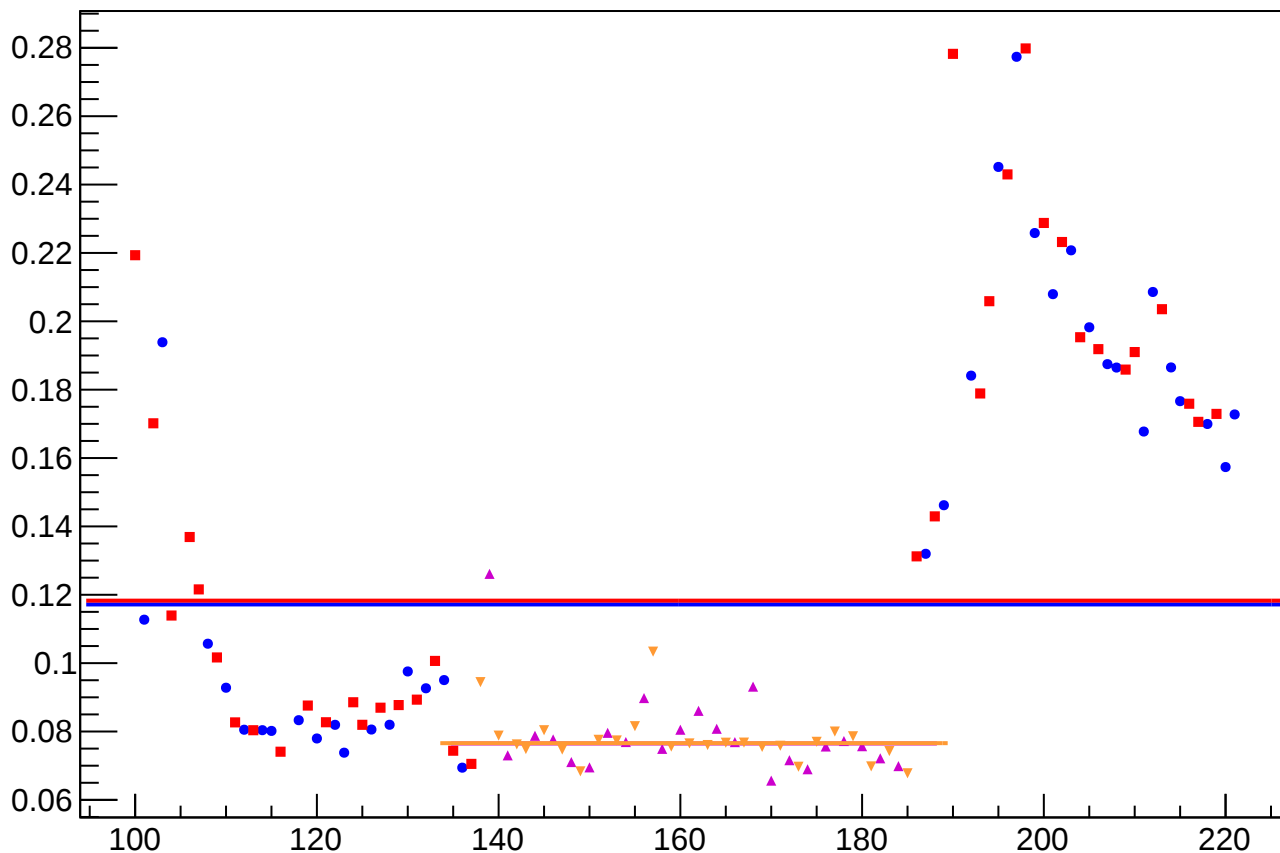
Right: 32.677+/-0.000 χ^2/NDF : 2930072599.4/70

In: 32.217+/-0.000 χ^2/NDF : 3689137534.8/57

Out: 32.080+/-0.000 χ^2/NDF : 3480826610.3/60

All: 32.148+/-0.000 χ^2/NDF : 7206568028.4/1

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.117 $\pm$ 0.000 χ^2 /NDF: 6095382.7/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.118 $\pm$ 0.000 χ^2 /NDF: 5548873.3/35

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

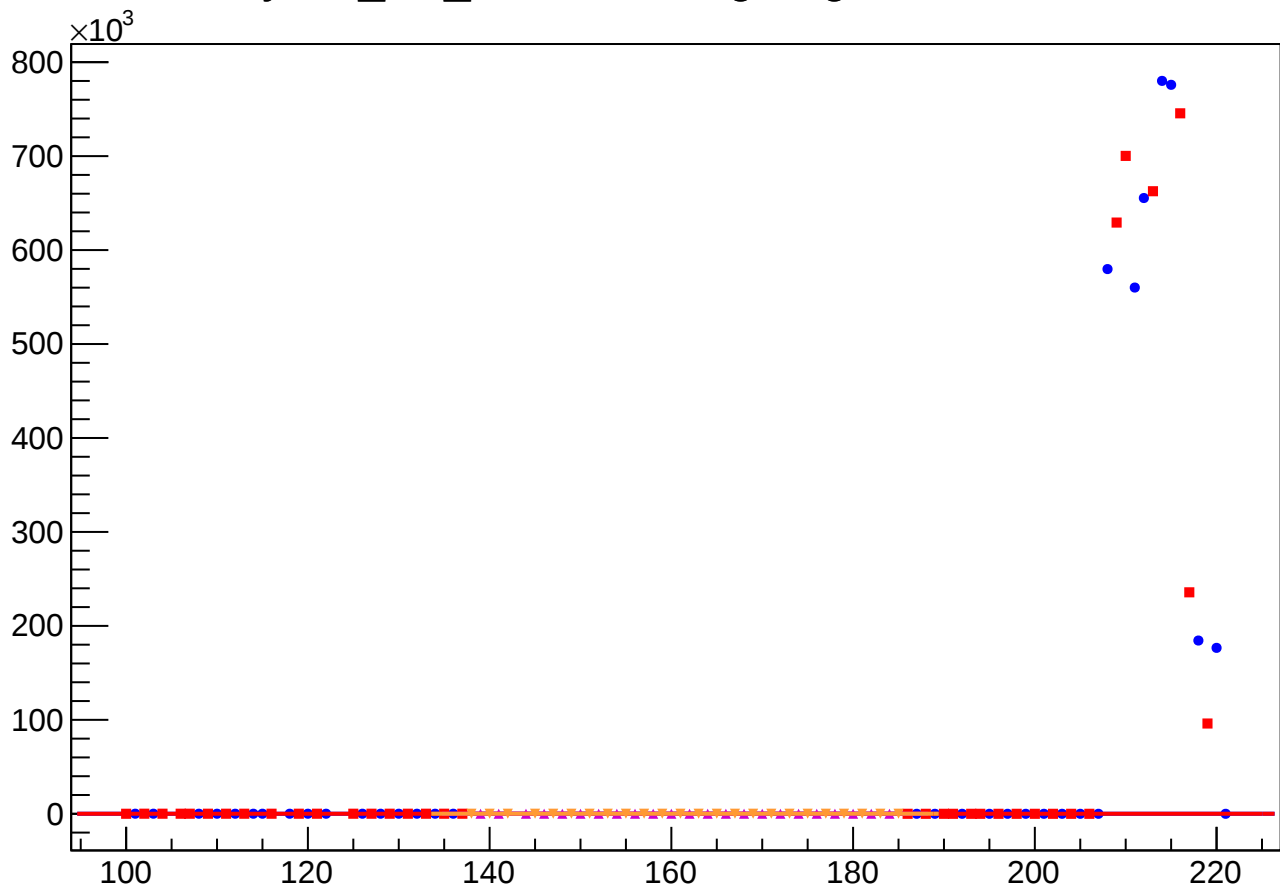
Right: 0.118 $\pm$ 0.000 χ^2 /NDF: 11645636.9/70

In: 0.088 $\pm$ 0.000 χ^2 /NDF:9190899.0/57

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:8500513.5/60

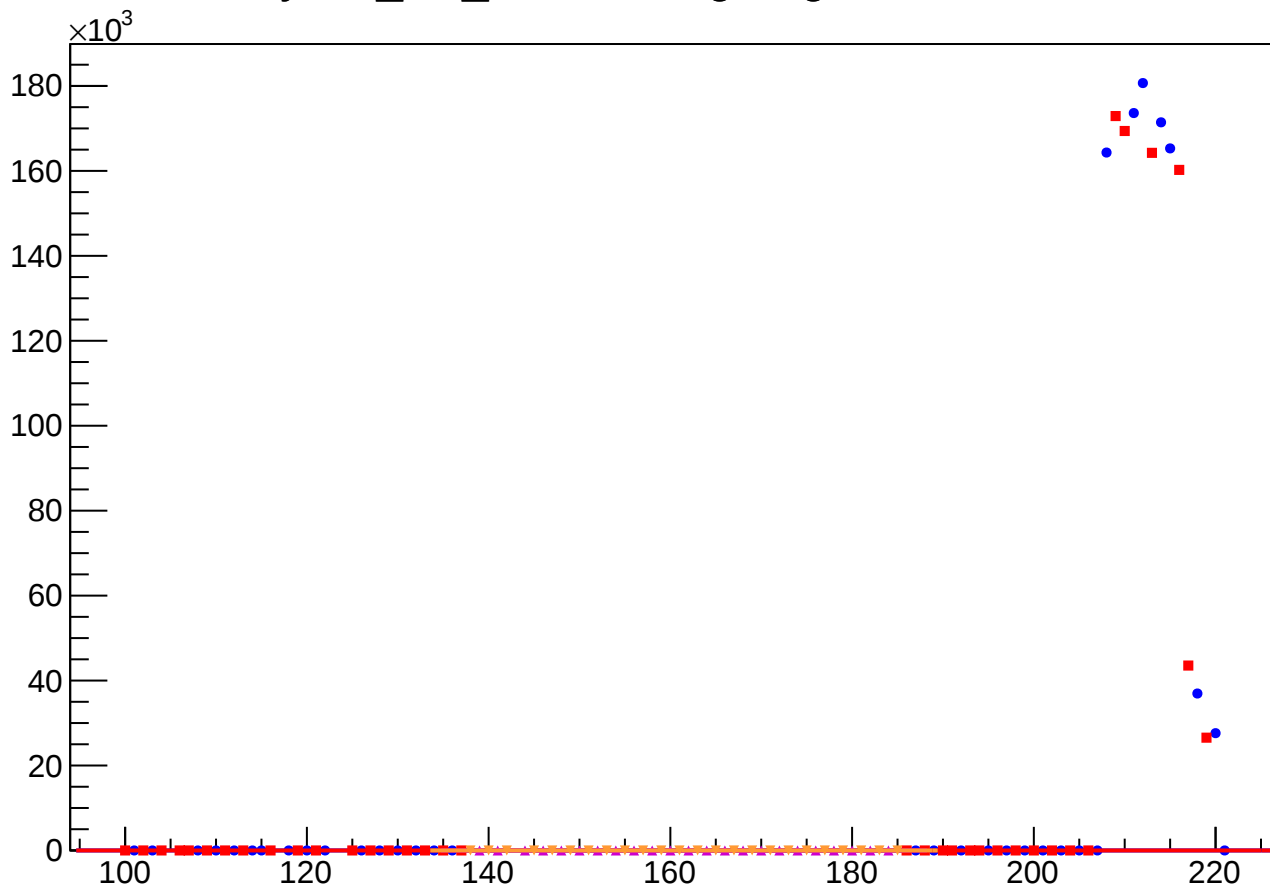
All: 0.088 $\pm$ 0.000 χ^2 /NDF: 17692023.2/118

yield_dsl_mean vs Slug, Sign Corrected



Right In: 52.944+/-0.000 χ^2 /NDF: 11400771048043.2/33
 Left Out: 83.402+/-0.000 χ^2 /NDF: 8756634444.3/23
 Right Out: 51.099+/-0.000 χ^2 /NDF: 11528477446503.4/35
 Left In: 83.309+/-0.000 χ^2 /NDF: 8421247810.9/22
 Left: 83.355+/-0.000 χ^2 /NDF: 17213898269.1/46
 Right: 51.996+/-0.000 χ^2 /NDF: 22939861381551.7/46
 In: 70.505+/-0.000 χ^2 /NDF: 14643355548856.3/50
 Out: 69.320+/-0.000 χ^2 /NDF: 15307030202175.6/50
 All: 69.906+/-0.000 χ^2 /NDF: 2996060564059.1/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 10059794.0/33

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 8666630.0/35

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

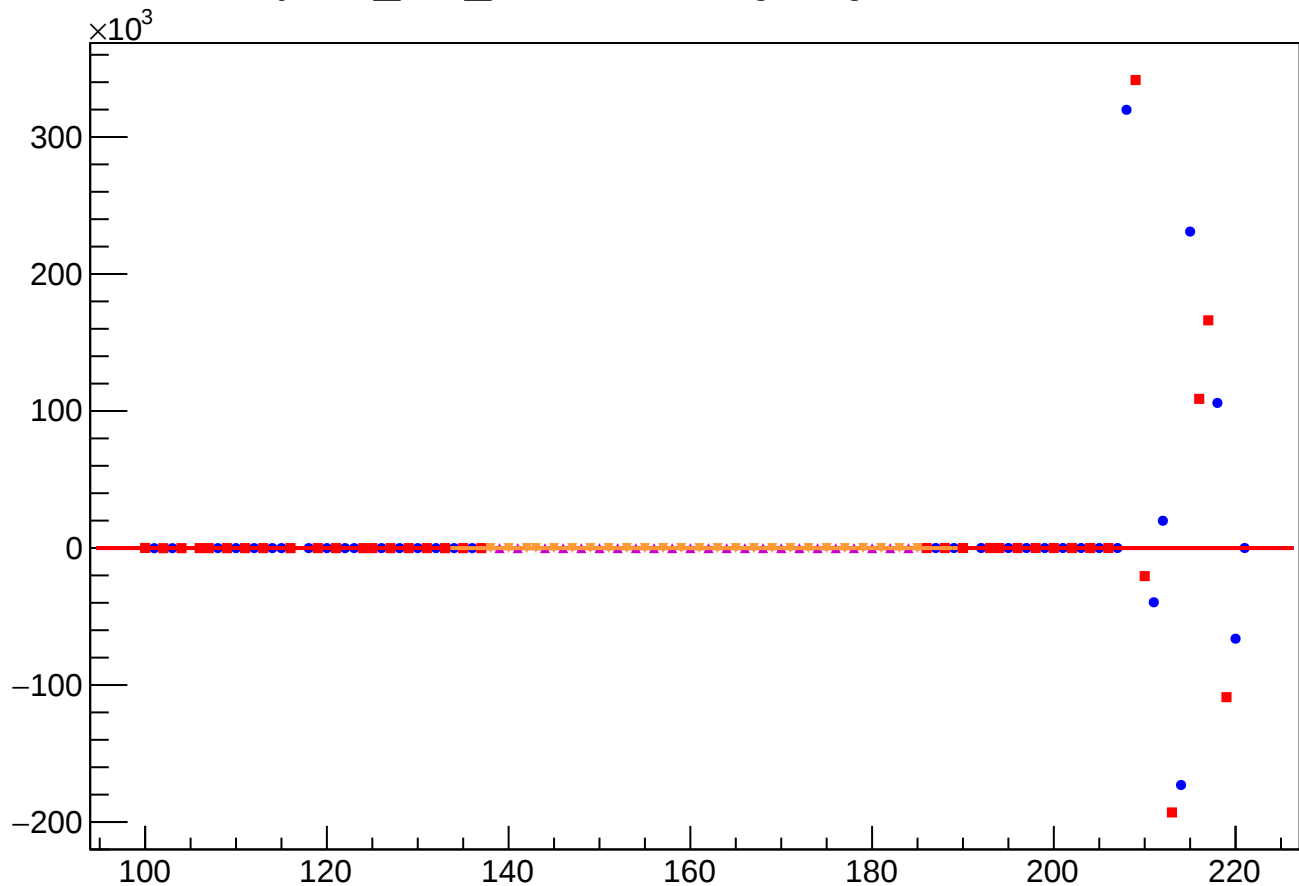
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 18727359.0/69

In: 0.046 $\pm$ 0.000 χ^2 /NDF:10340463.4/56

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:8892882.5/59

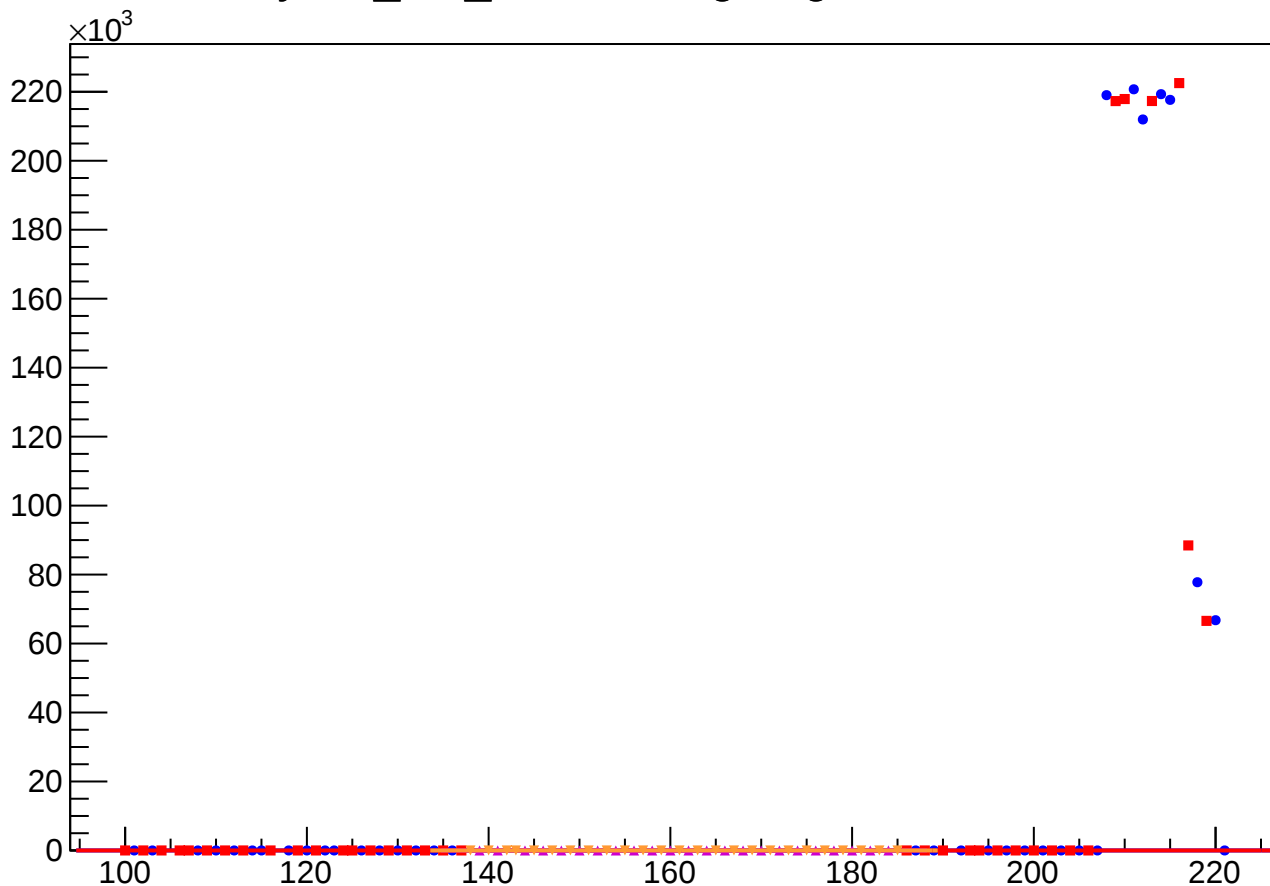
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 19233356.1/116

yield_dsr_mean vs Slug, Sign Corrected



Right In: -28.423+/-0.000	χ^2/NDF : 7715176965080.7/34	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -28.593+/-0.000	χ^2/NDF : 15041161294236.2
Right Out: -28.760+/-0.000	χ^2/NDF : 7325686267870.0/35	In: -49.438+/-0.000	χ^2/NDF : 12192500864390.9/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926095559129.9/
		All: -49.764+/-0.000	χ^2/NDF : 241208021990

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 10020347.2/34

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 8599855.8/35

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

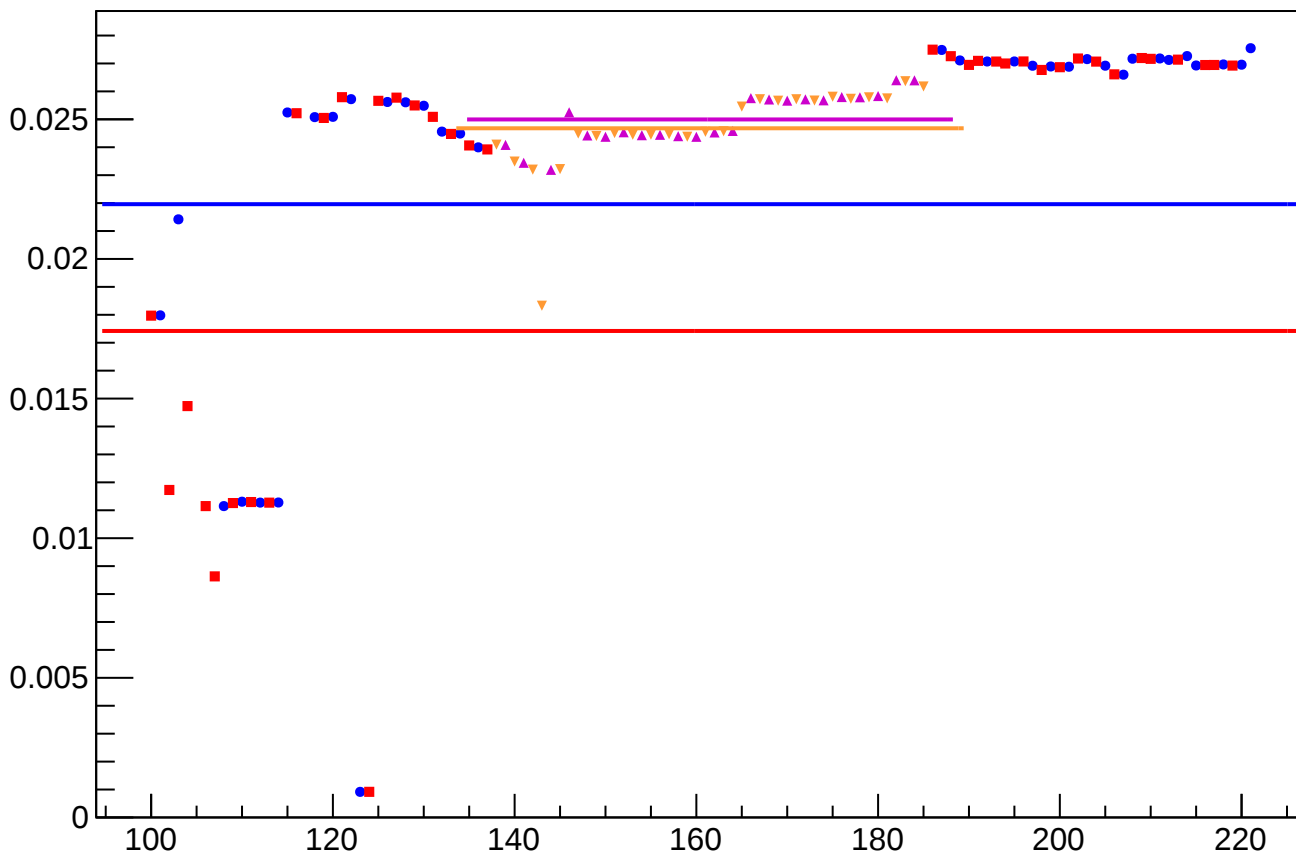
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 18620248.5/70

In: 0.054 $\pm$ 0.000 χ^2 /NDF:10143376.4/57

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:8694509.5/60

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 18838029.1/118

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 212088057630.3/34

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.020+/-0.000

χ^2/NDF : 713189876913.6/71

Right Out: 0.017+/-0.000

χ^2/NDF : 463941835390.7/36

In: 0.024+/-0.000

χ^2/NDF : 230332934387.6/57

Out: 0.021+/-0.000

χ^2/NDF : 574093652112.4/61

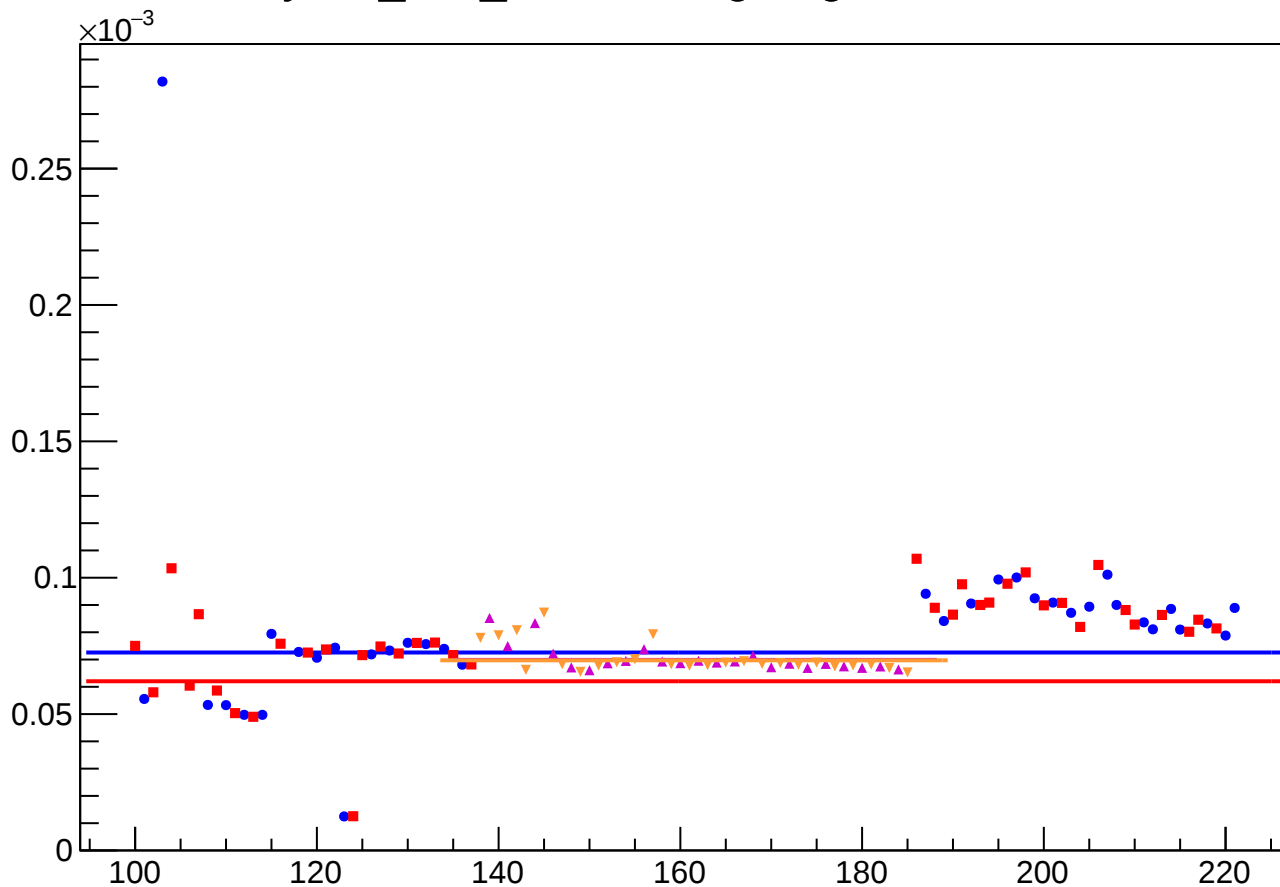
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 828173625612.2

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3753564.1/34

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7401557.8/36

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

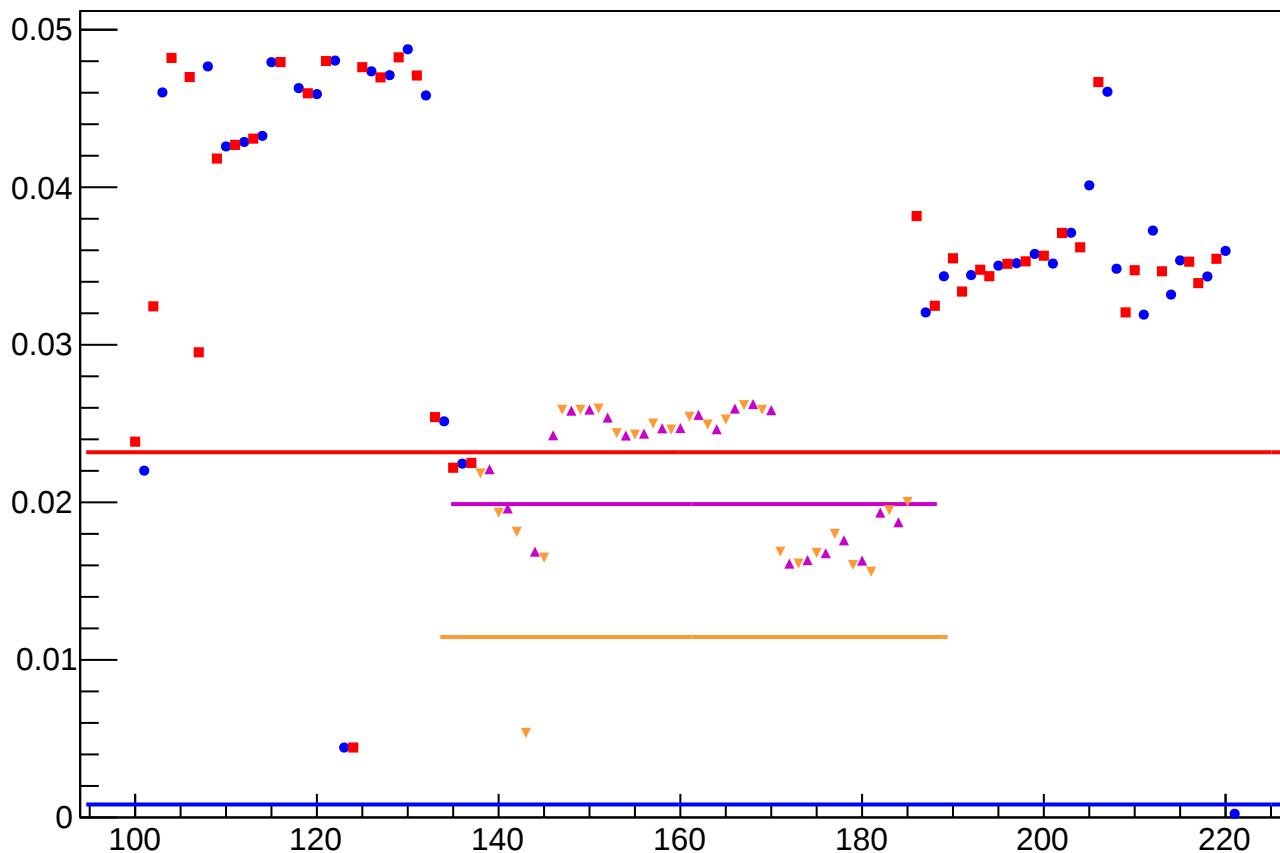
Right: 0.000+/-0.000 χ^2/NDF : 11556067.4/71

In: 0.000+/-0.000 χ^2/NDF :3908312.6/57

Out: 0.000+/-0.000 χ^2/NDF :7784638.0/61

All: 0.000+/-0.000 χ^2/NDF : 11904312.9/119

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 123172165300.1/34

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.001+/-0.000

χ^2/NDF : 241342898649.1/71

Right Out: 0.023+/-0.000

χ^2/NDF : 45767651500.8/36

In: 0.002+/-0.000

χ^2/NDF : 228531107993.2/57

Out: 0.013+/-0.000

χ^2/NDF : 103002252447.2/61

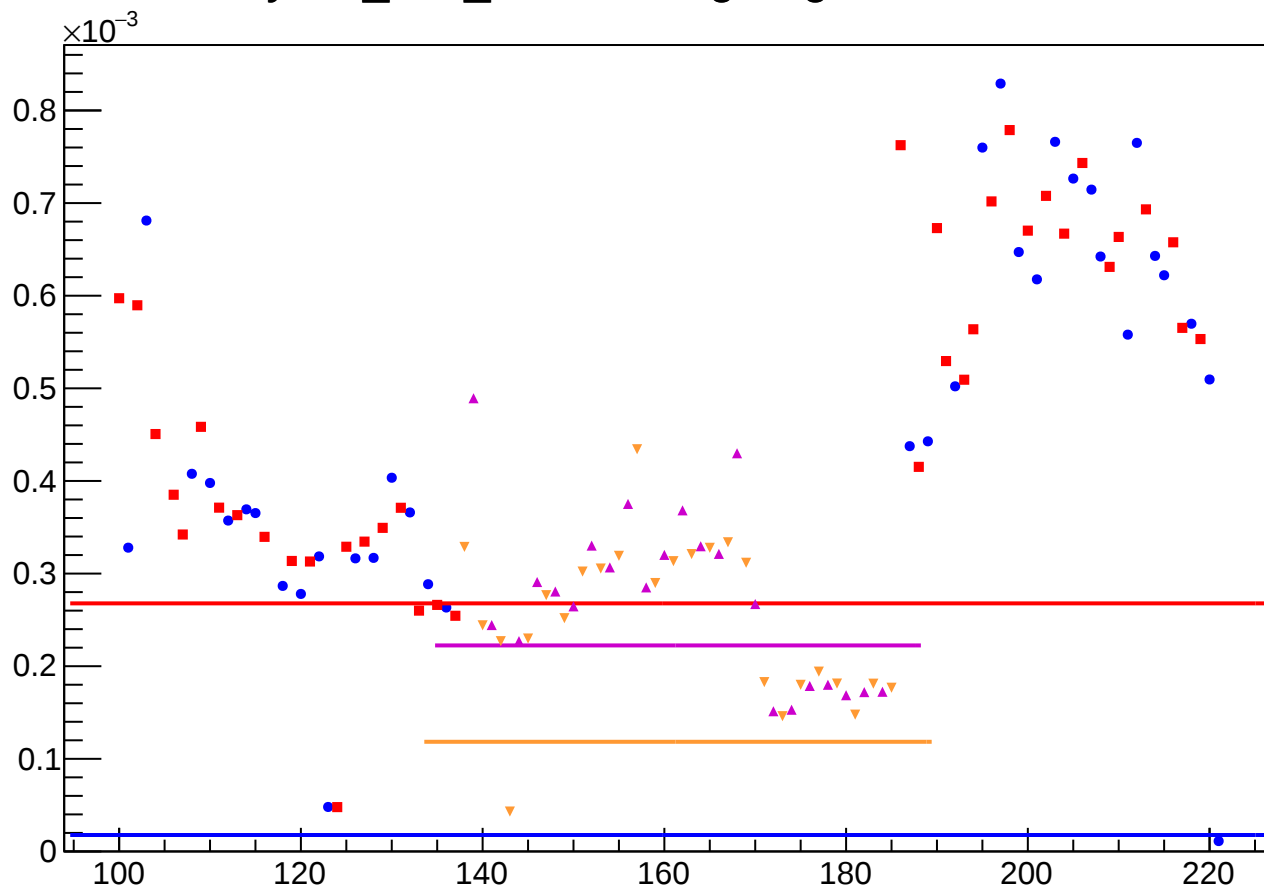
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.003+/-0.000

χ^2/NDF : 434191615947.6

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33318878.6/34

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14844664.7/36

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

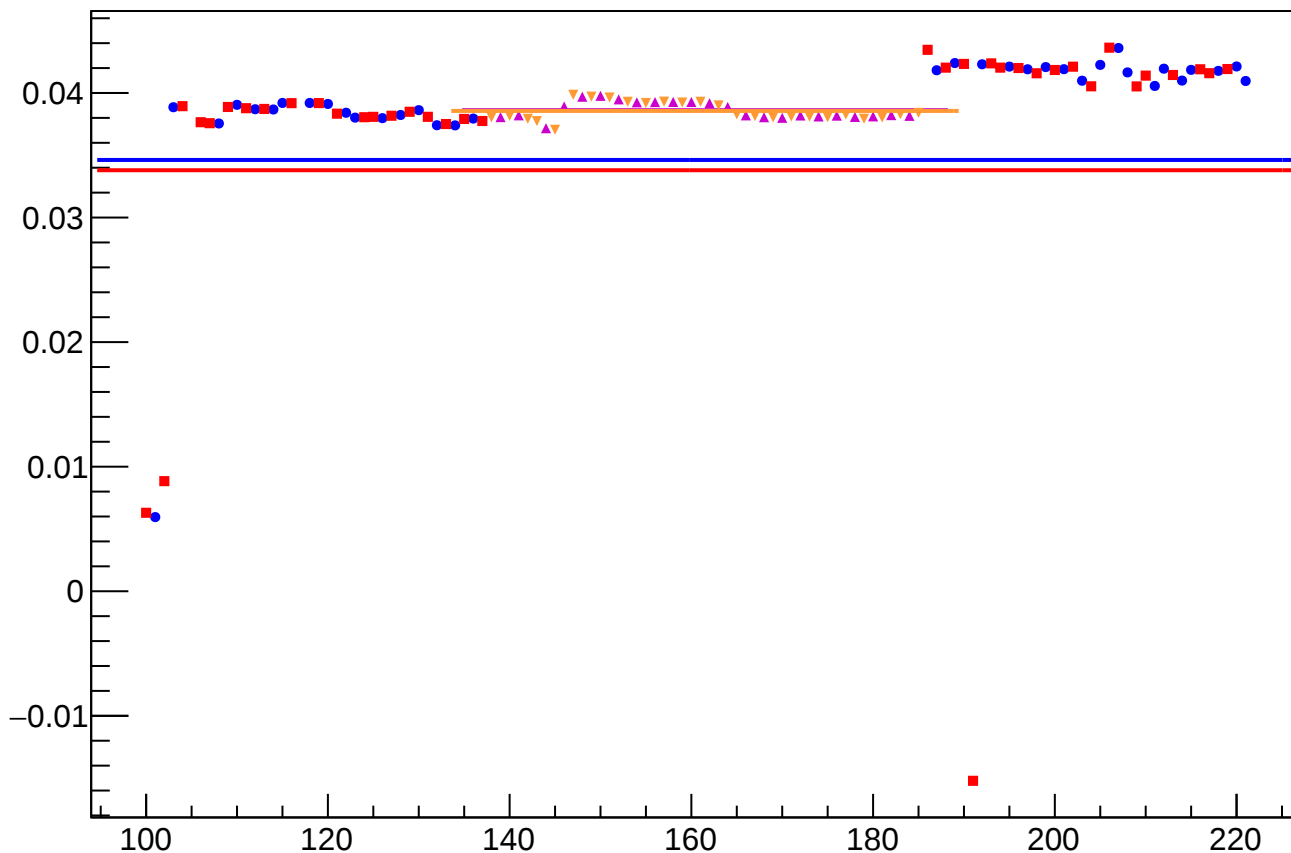
Right: 0.000+/-0.000 χ^2/NDF : 66279824.5/71

In: 0.000+/-0.000 χ^2/NDF :59850759.4/57

Out: 0.000+/-0.000 χ^2/NDF :33908933.7/61

All: 0.000+/-0.000 χ^2/NDF : 113997662.8/119

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.035+/-0.000

χ^2/NDF : 124862974811.0/34

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.034+/-0.000

χ^2/NDF : 313746940110.9/71

Right Out: 0.034+/-0.000

χ^2/NDF : 188621784336.3/36

In: 0.037+/-0.000

χ^2/NDF : 132394692247.4/57

Out: 0.037+/-0.000

χ^2/NDF : 199261961075.8/61

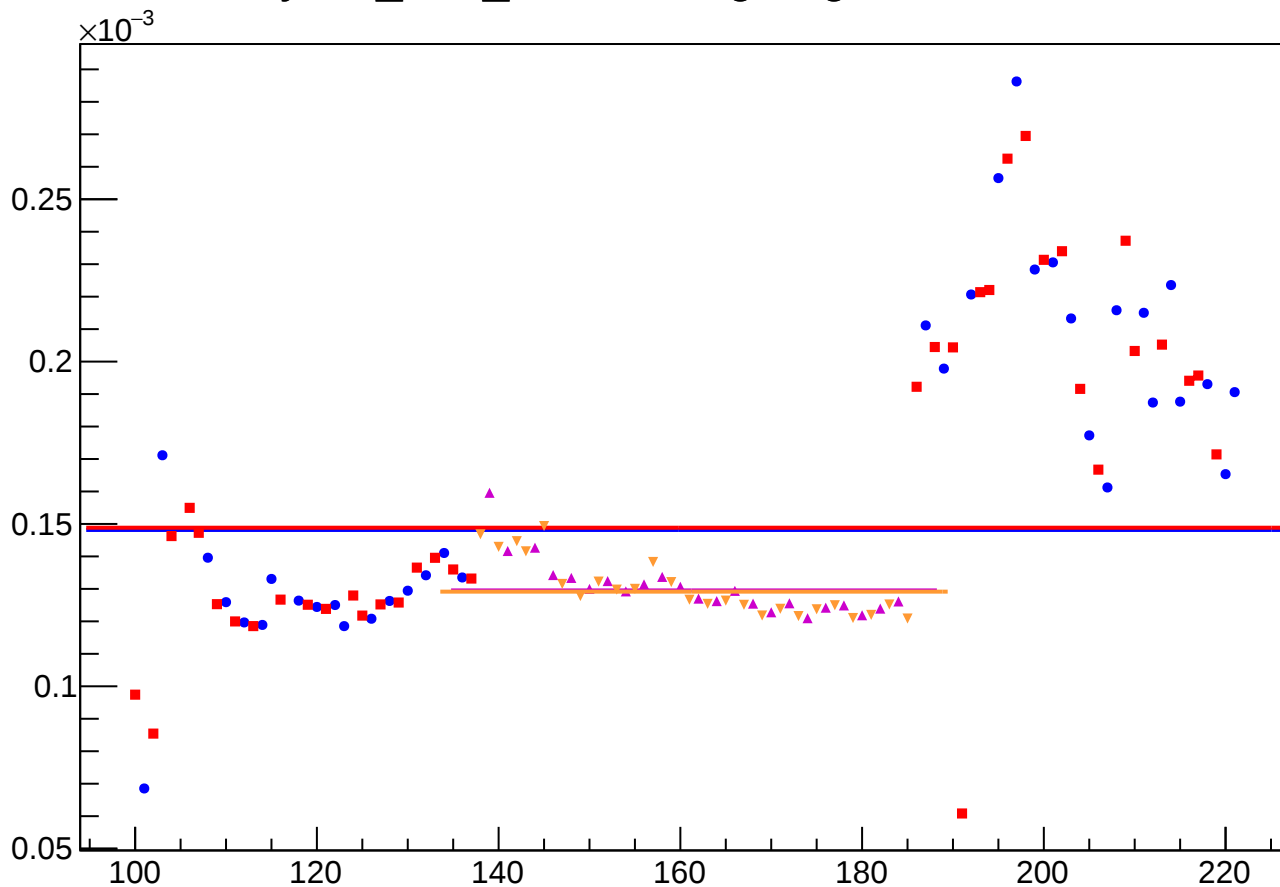
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 331730860217.0

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4090572.6/34

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3712478.0/36

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

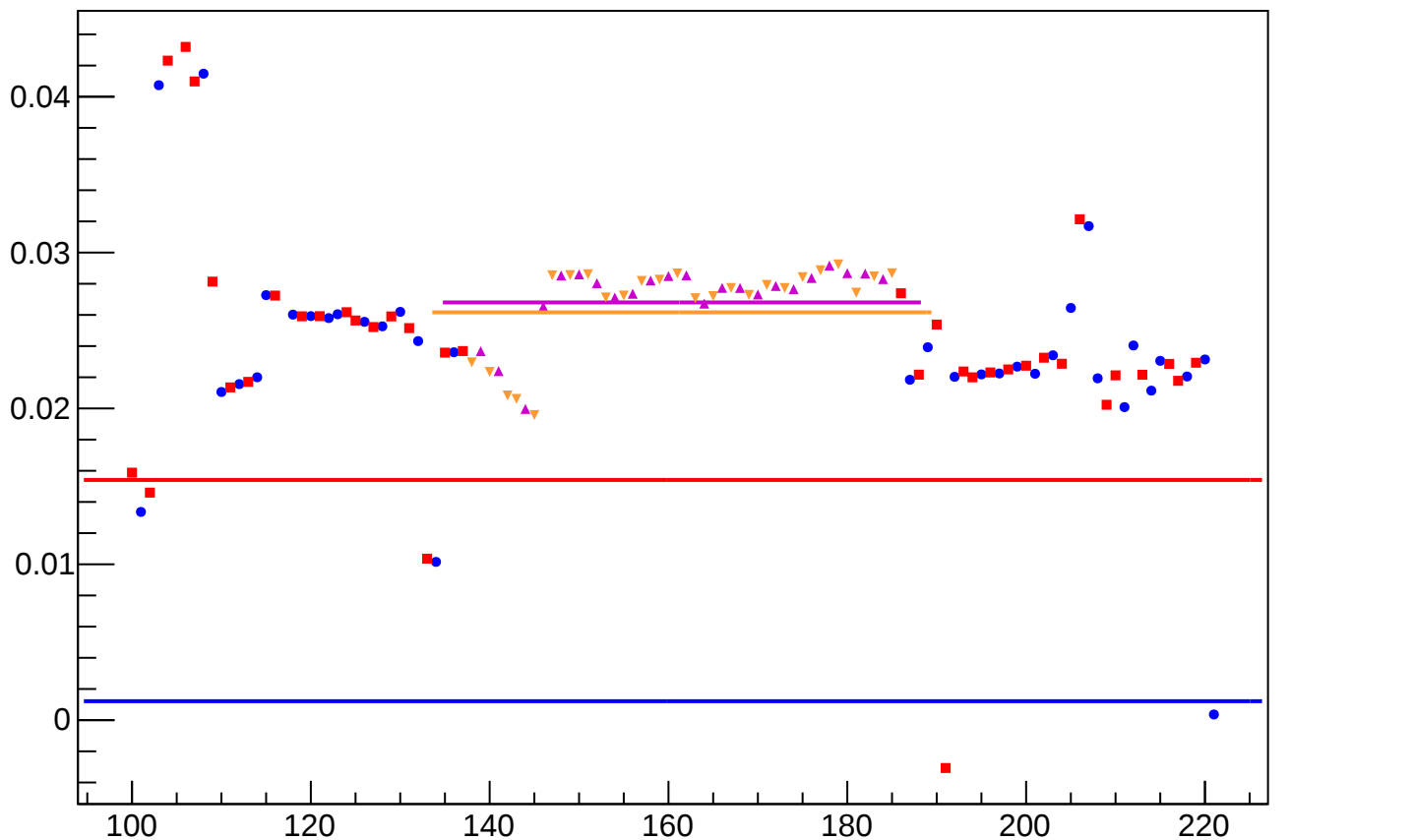
Right: 0.000+/-0.000 χ^2/NDF : 7803418.8/71

In: 0.000+/-0.000 χ^2/NDF :4512273.9/57

Out: 0.000+/-0.000 χ^2/NDF :4188310.7/61

All: 0.000+/-0.000 χ^2/NDF : 8700812.6/119

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 65112578403.1/34

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.002+/-0.000

χ^2/NDF : 131173110365.4/71

Right Out: 0.015+/-0.000

χ^2/NDF : 32135187914.2/36

In: 0.003+/-0.000

χ^2/NDF : 180997498227.9/57

Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

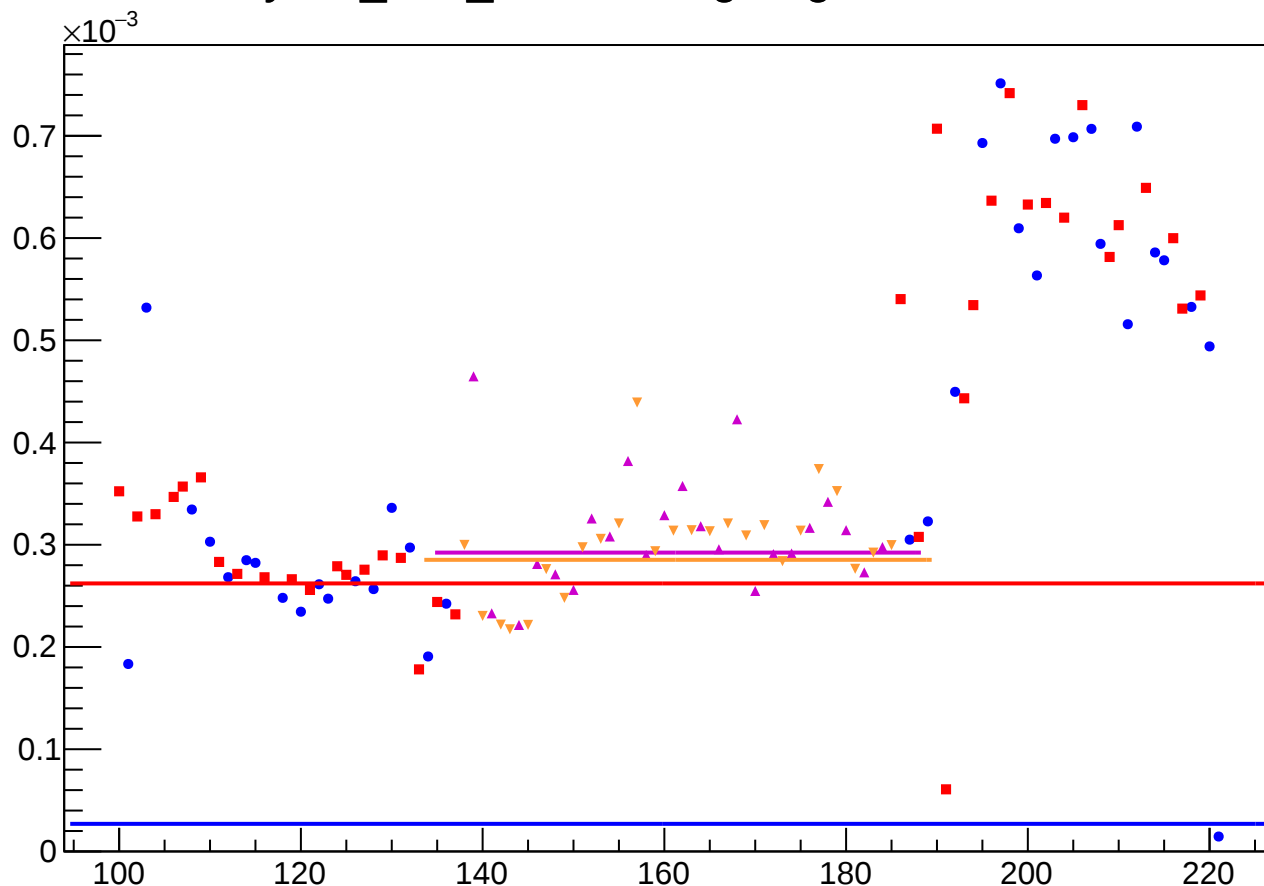
Out: 0.021+/-0.000

χ^2/NDF : 45093471029.9/61

All: 0.004+/-0.000

χ^2/NDF : 343862663977.1

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31908942.7/34

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11627707.8/36

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

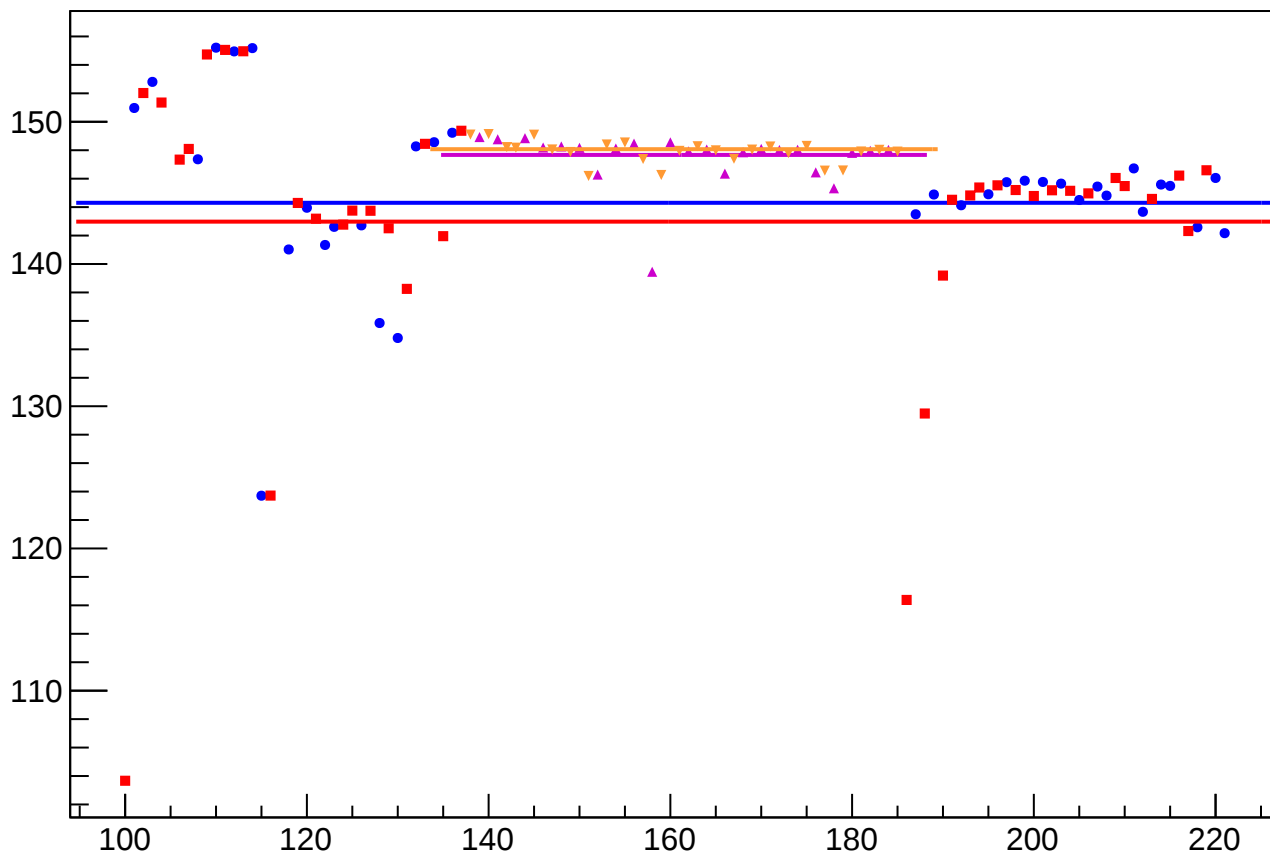
Right: 0.000+/-0.000 χ^2/NDF : 62156367.4/71

In: 0.000+/-0.000 χ^2/NDF :57445473.7/57

Out: 0.000+/-0.000 χ^2/NDF :12541663.0/61

All: 0.000+/-0.000 χ^2/NDF : 107236202.7/119

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.304+/-0.000 χ^2/NDF : 3529573005.2/34

Left Out: 148.073+/-0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.979+/-0.000 χ^2/NDF : 7493022901.1/36

Left In: 147.670+/-0.000 χ^2/NDF : 345222604.4/22

Left: 147.879+/-0.000 χ^2/NDF : 418091602.5/47

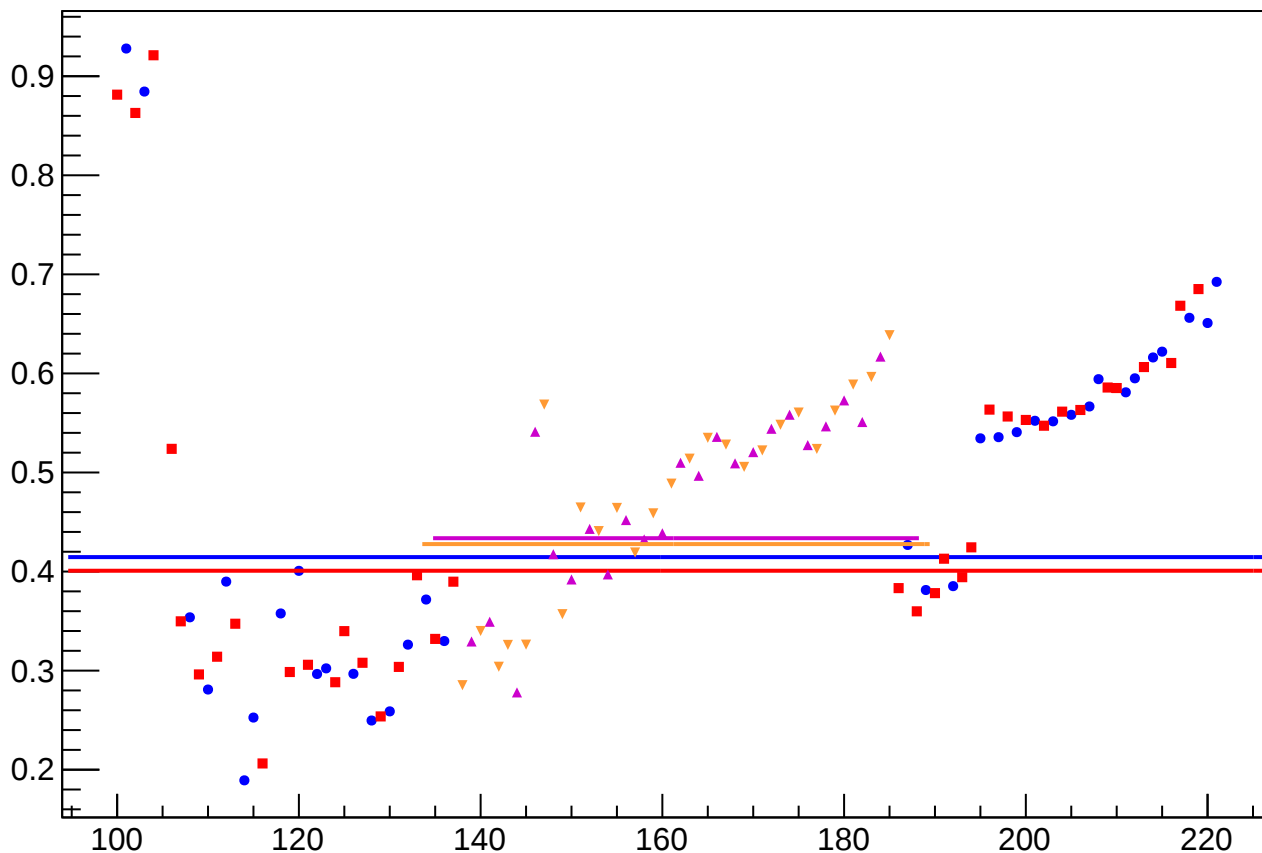
Right: 143.621+/-0.000 χ^2/NDF : 11111205686.3/71

In: 145.881+/-0.000 χ^2/NDF : 4395654573.0/57

Out: 145.379+/-0.000 χ^2/NDF : 8832097911.3/61

All: 145.622+/-0.000 χ^2/NDF : 13251797567.0/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.415+/-0.000 χ^2/NDF : 4387851.3/34

Left Out: 0.428+/-0.000 χ^2/NDF :1896808.7/24

Right Out: 0.401+/-0.000 χ^2/NDF : 3803366.0/36

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

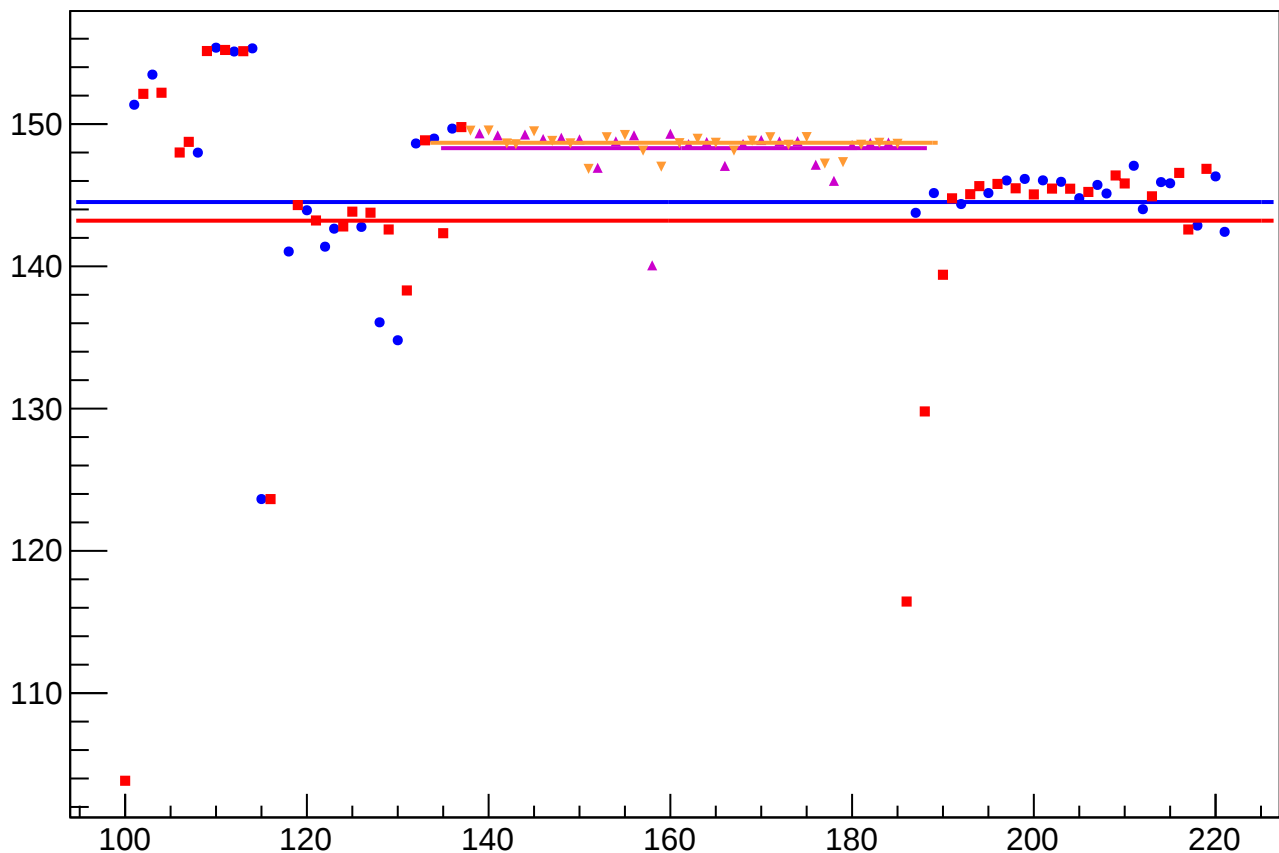
Right: 0.408+/-0.000 χ^2/NDF : 8210366.9/71

In: 0.424+/-0.000 χ^2/NDF :5917625.5/57

Out: 0.414+/-0.000 χ^2/NDF :5771213.2/61

All: 0.418+/-0.000 χ^2/NDF : 11708012.6/119

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.520 $\pm$ 0.000 χ^2 /NDF: 3580419325.8/34

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.209 $\pm$ 0.000 χ^2 /NDF: 7445783904.2/36

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

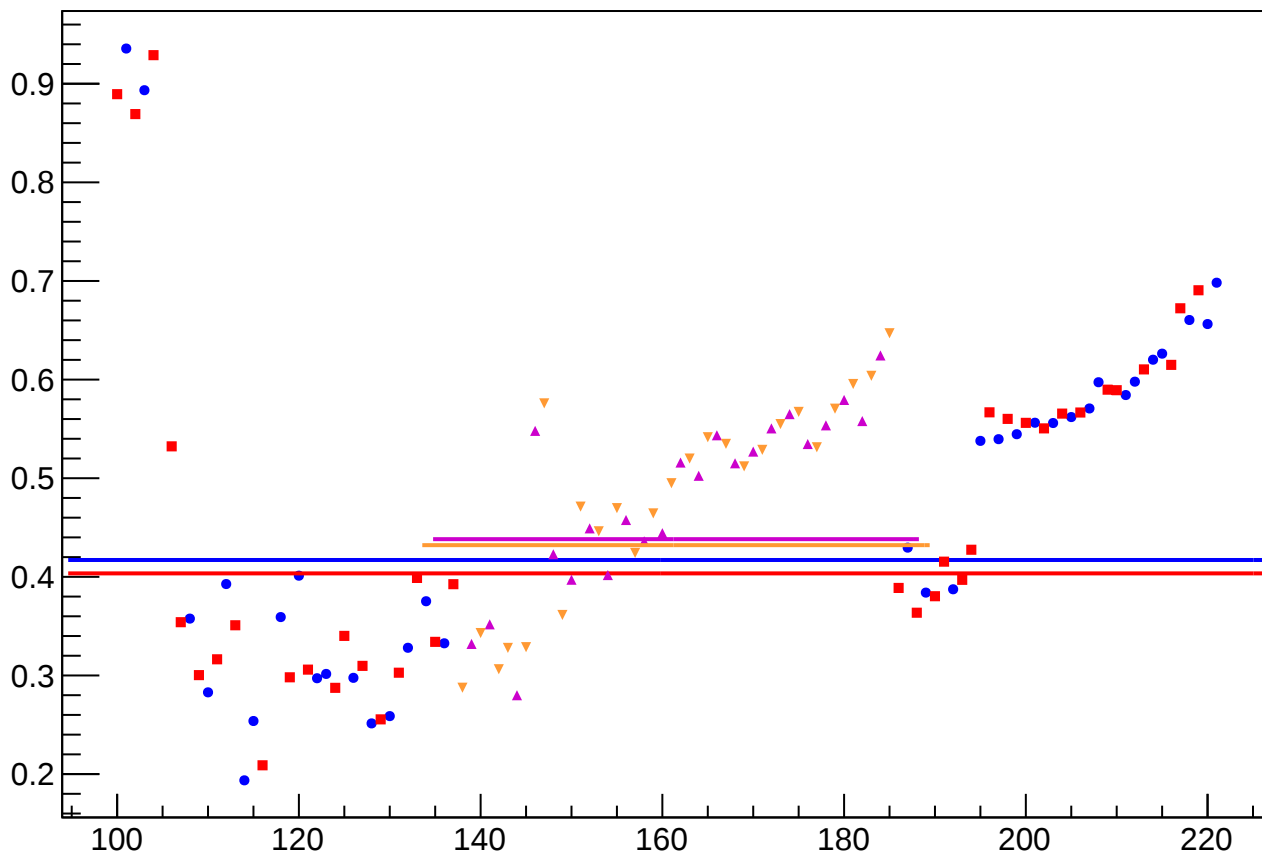
Right: 143.845 $\pm$ 0.000 χ^2 /NDF: 11111855607.3/71

In: 146.286 $\pm$ 0.000 χ^2 /NDF: 4561915616.8/57

Out: 145.778 $\pm$ 0.000 χ^2 /NDF: 8944544827.2/61

All: 146.024 $\pm$ 0.000 χ^2 /NDF: 13530561120.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.417+/-0.000 χ^2/NDF : 4400394.6/34

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.404+/-0.000 χ^2/NDF : 3807987.3/36

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

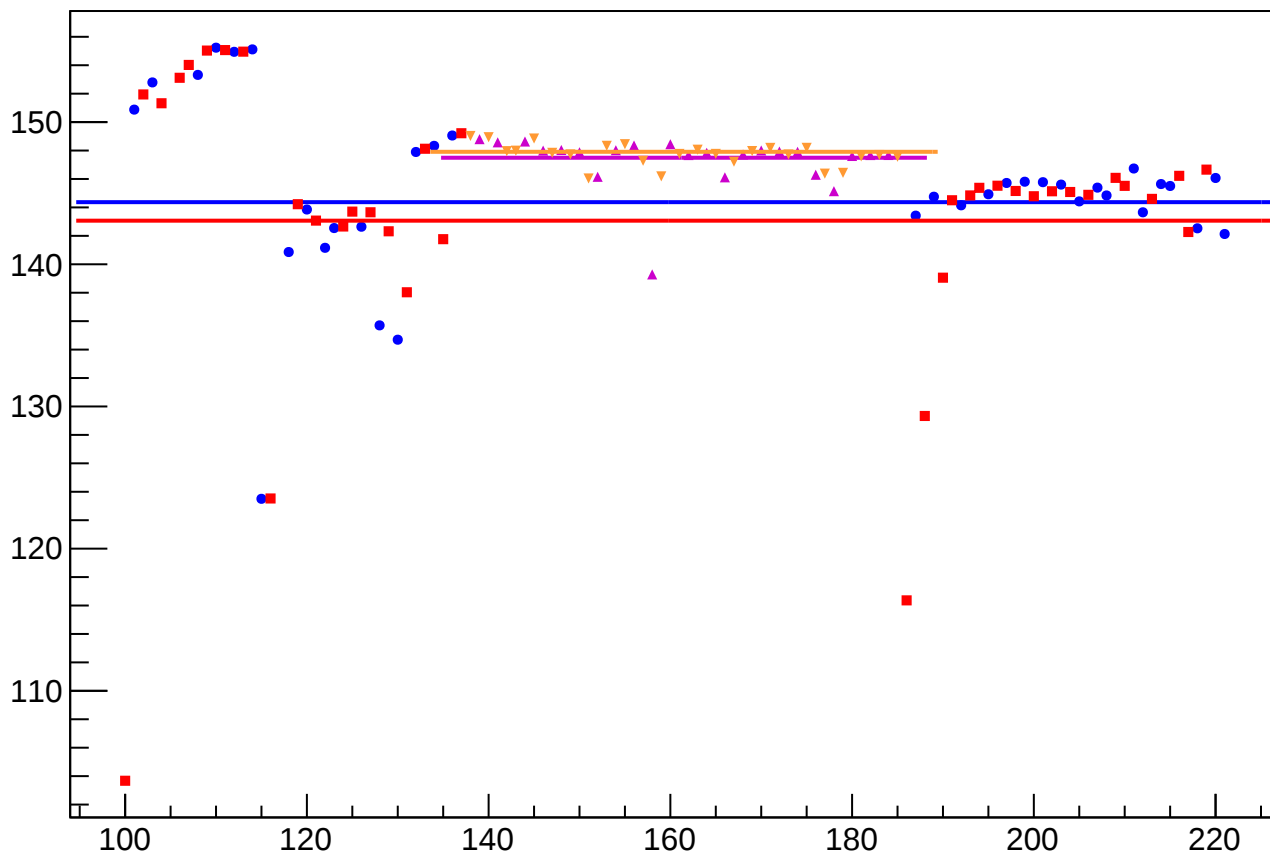
Right: 0.410+/-0.000 χ^2/NDF : 8226789.6/71

In: 0.427+/-0.000 χ^2/NDF :5962581.7/57

Out: 0.417+/-0.000 χ^2/NDF :5816040.4/61

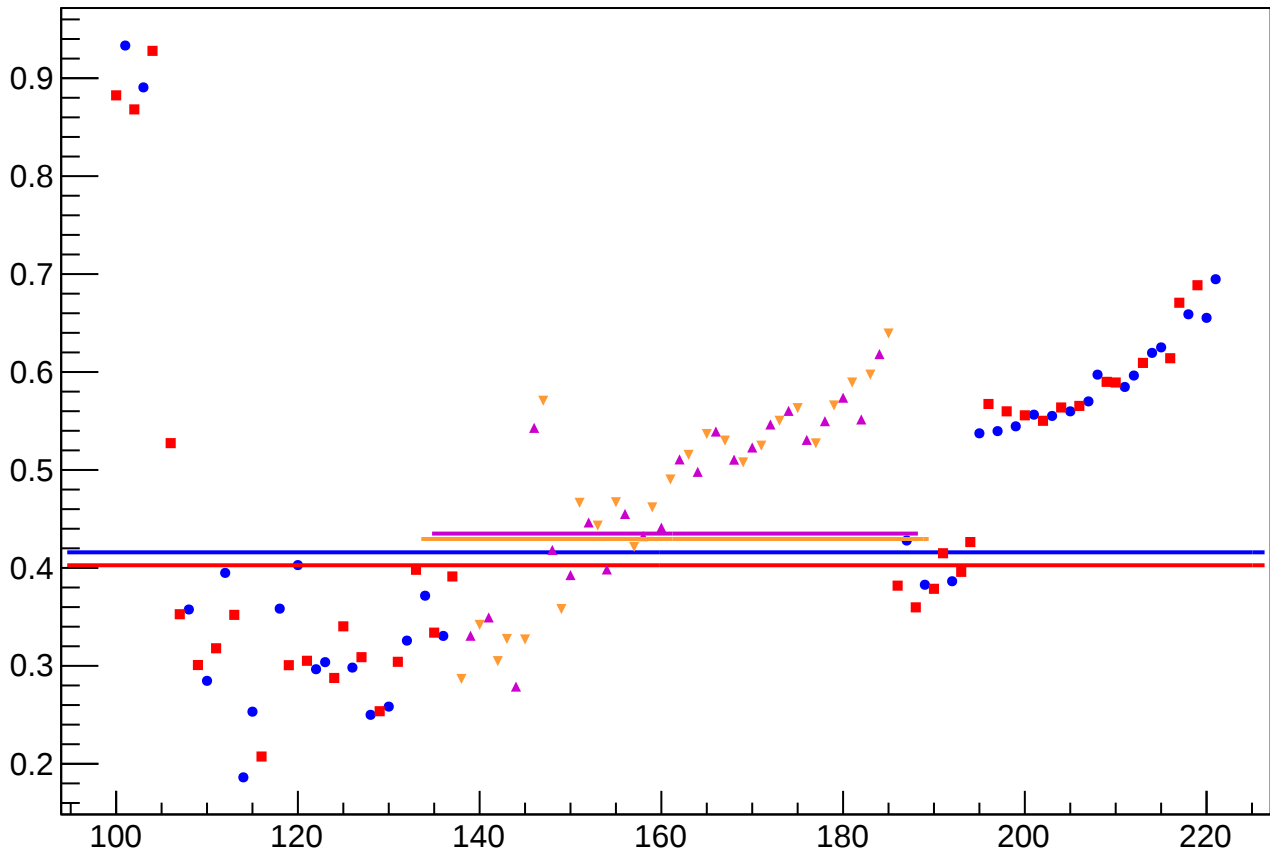
All: 0.422+/-0.000 χ^2/NDF : 11797375.6/119

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.369 $\pm$ 0.000	χ^2 /NDF: 3736039256.8/34	Left: 147.709 $\pm$ 0.000	χ^2 /NDF: 416149781.4/47
Left Out: 147.911 $\pm$ 0.000	χ^2 /NDF: 64412407.9/24	Right: 143.699 $\pm$ 0.000	χ^2 /NDF: 11686912120.4/71
Right Out: 143.067 $\pm$ 0.000	χ^2 /NDF: 7865957569.8/36	In: 145.834 $\pm$ 0.000	χ^2 /NDF: 4525242157.4/57
Left In: 147.493 $\pm$ 0.000	χ^2 /NDF: 343978473.2/22	Out: 145.350 $\pm$ 0.000	χ^2 /NDF: 9071733289.3/61
		All: 145.585 $\pm$ 0.000	χ^2 /NDF: 13619087647.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.416 $\pm$ 0.000 χ^2/NDF : 4430538.6/34

Left Out: 0.430 $\pm$ 0.000 χ^2/NDF :1895701.4/24

Right Out: 0.403 $\pm$ 0.000 χ^2/NDF : 3810586.2/36

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

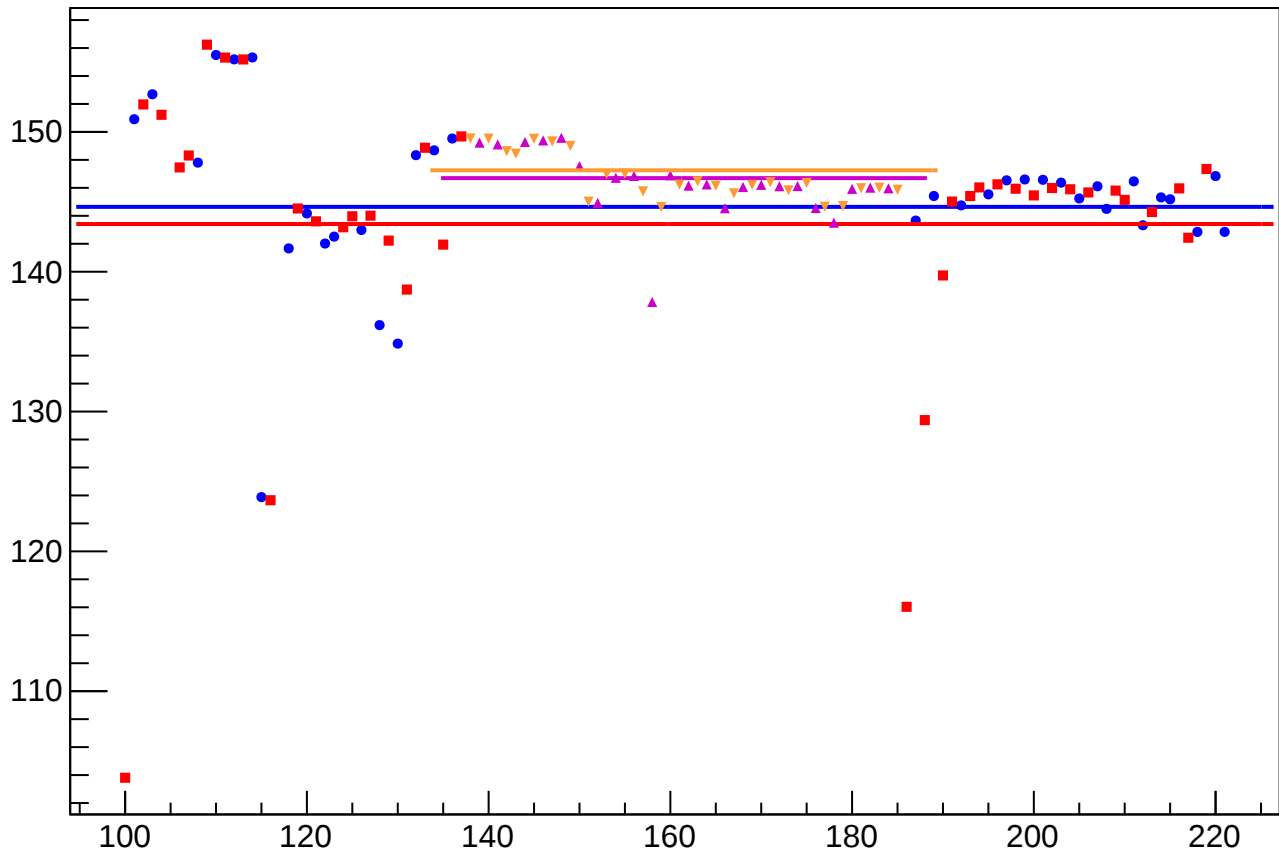
Right: 0.409 $\pm$ 0.000 χ^2/NDF : 8258651.3/71

In: 0.425 $\pm$ 0.000 χ^2/NDF :5966649.6/57

Out: 0.415 $\pm$ 0.000 χ^2/NDF :5776304.9/61

All: 0.420 $\pm$ 0.000 χ^2/NDF : 11760206.4/119

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.641 $\pm$ 0.000 χ^2 /NDF: 3253939732.7/34

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.412 $\pm$ 0.000 χ^2 /NDF: 7181518011.6/36

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

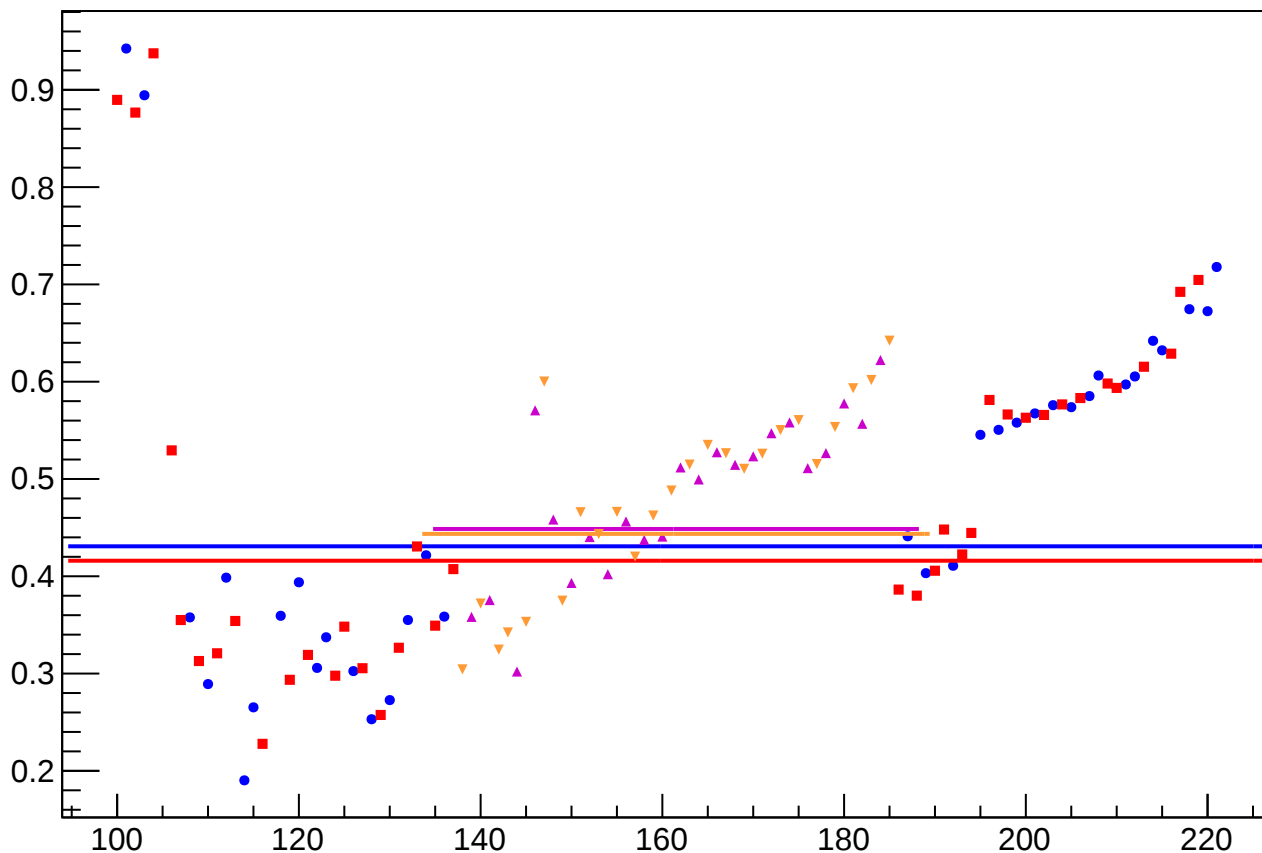
Right: 144.007 $\pm$ 0.000 χ^2 /NDF: 10506147061.0/71

In: 145.613 $\pm$ 0.000 χ^2 /NDF: 3993309719.6/57

Out: 145.233 $\pm$ 0.000 χ^2 /NDF: 8120357624.9/61

All: 145.417 $\pm$ 0.000 χ^2 /NDF: 12126533277.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.431+/-0.000 χ^2/NDF : 4289069.6/34

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.416+/-0.000 χ^2/NDF : 3691788.7/36

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

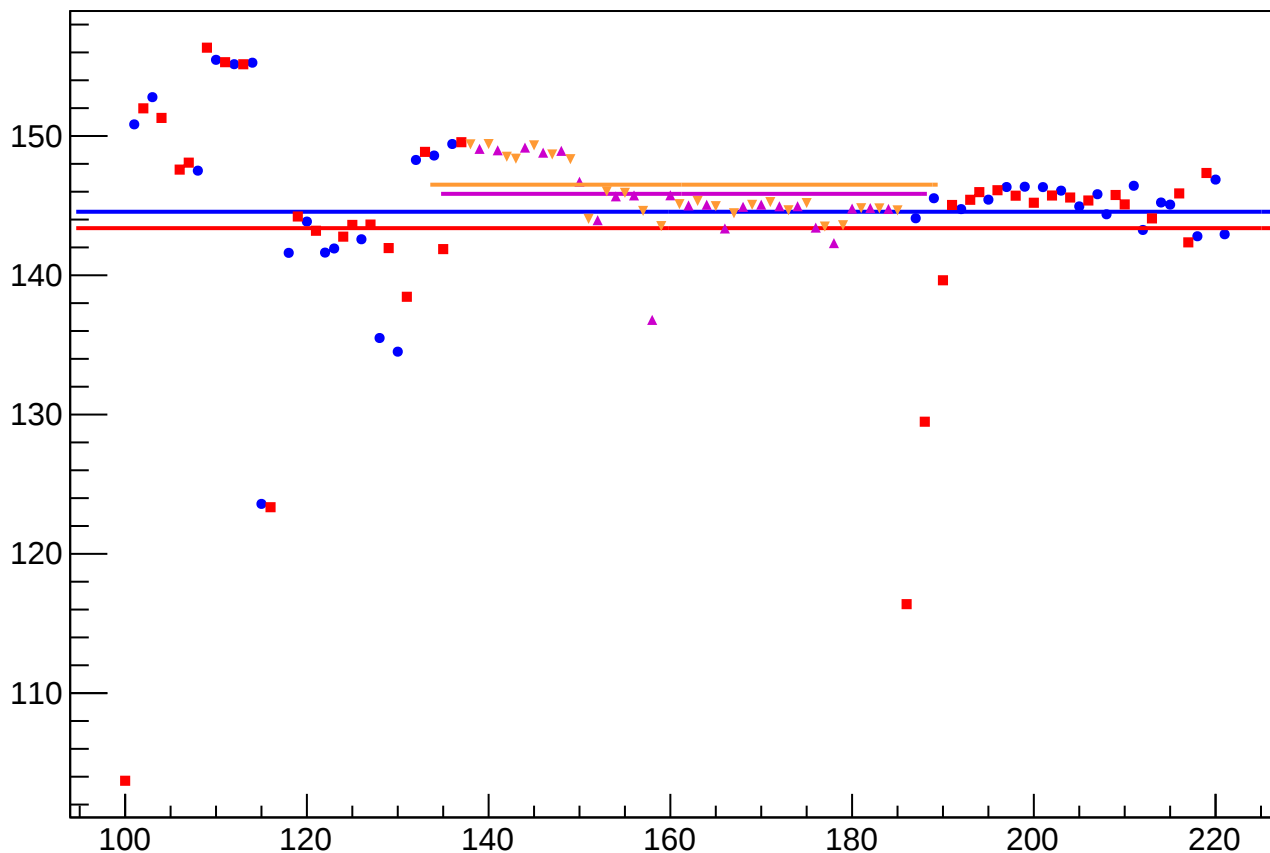
Right: 0.423+/-0.000 χ^2/NDF : 8001389.6/71

In: 0.439+/-0.000 χ^2/NDF :5449056.9/57

Out: 0.429+/-0.000 χ^2/NDF :5245010.7/61

All: 0.434+/-0.000 χ^2/NDF : 10712489.3/119

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.561 $\pm$ 0.000 χ^2 /NDF: 3363100609.6/34

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.383 $\pm$ 0.000 χ^2 /NDF: 7133128296.2/36

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

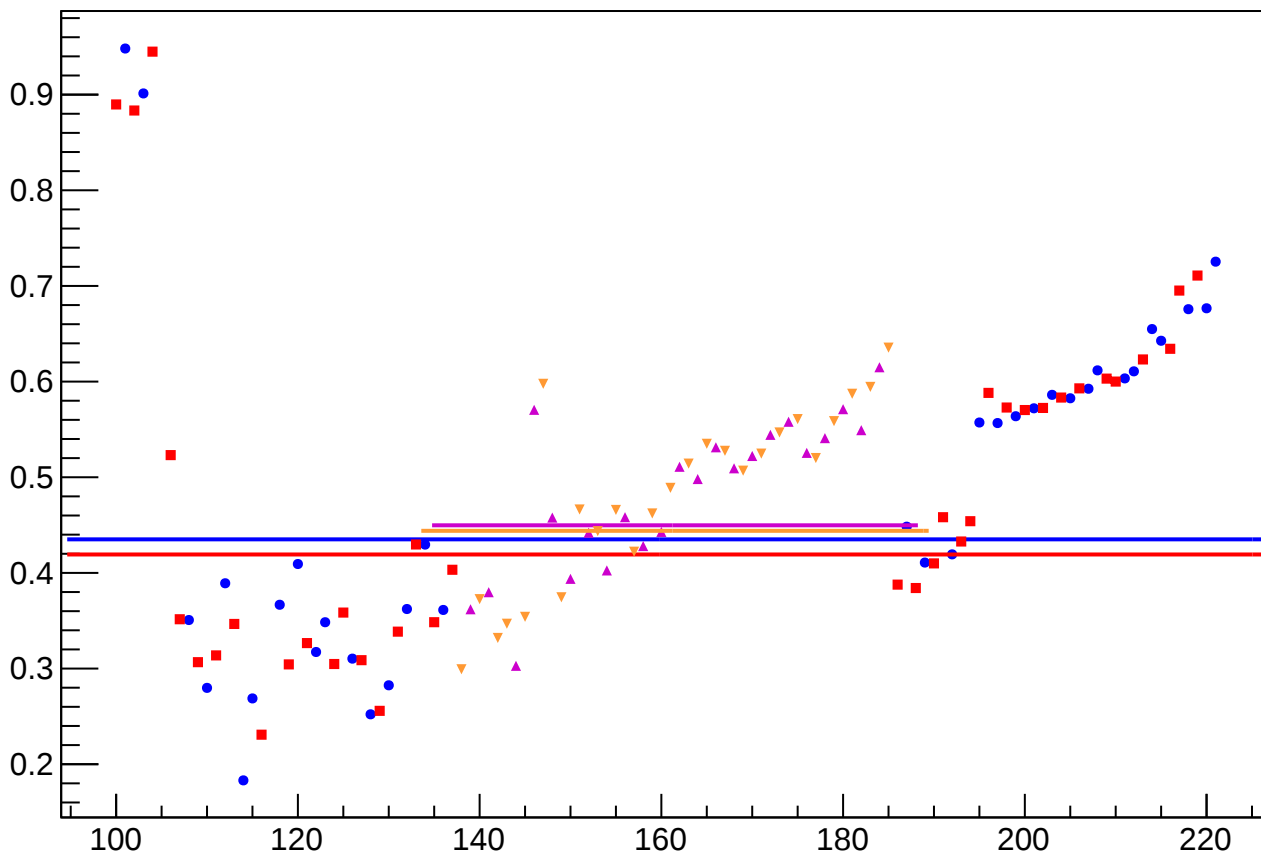
Right: 143.952 $\pm$ 0.000 χ^2 /NDF: 10559817089.0/71

In: 145.175 $\pm$ 0.000 χ^2 /NDF: 4127940833.5/57

Out: 144.875 $\pm$ 0.000 χ^2 /NDF: 7976831947.8/61

All: 145.020 $\pm$ 0.000 χ^2 /NDF: 12112667103.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.435 $\pm$ 0.000 χ^2 /NDF: 4337155.4/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.419 $\pm$ 0.000 χ^2 /NDF: 3725416.4/36

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

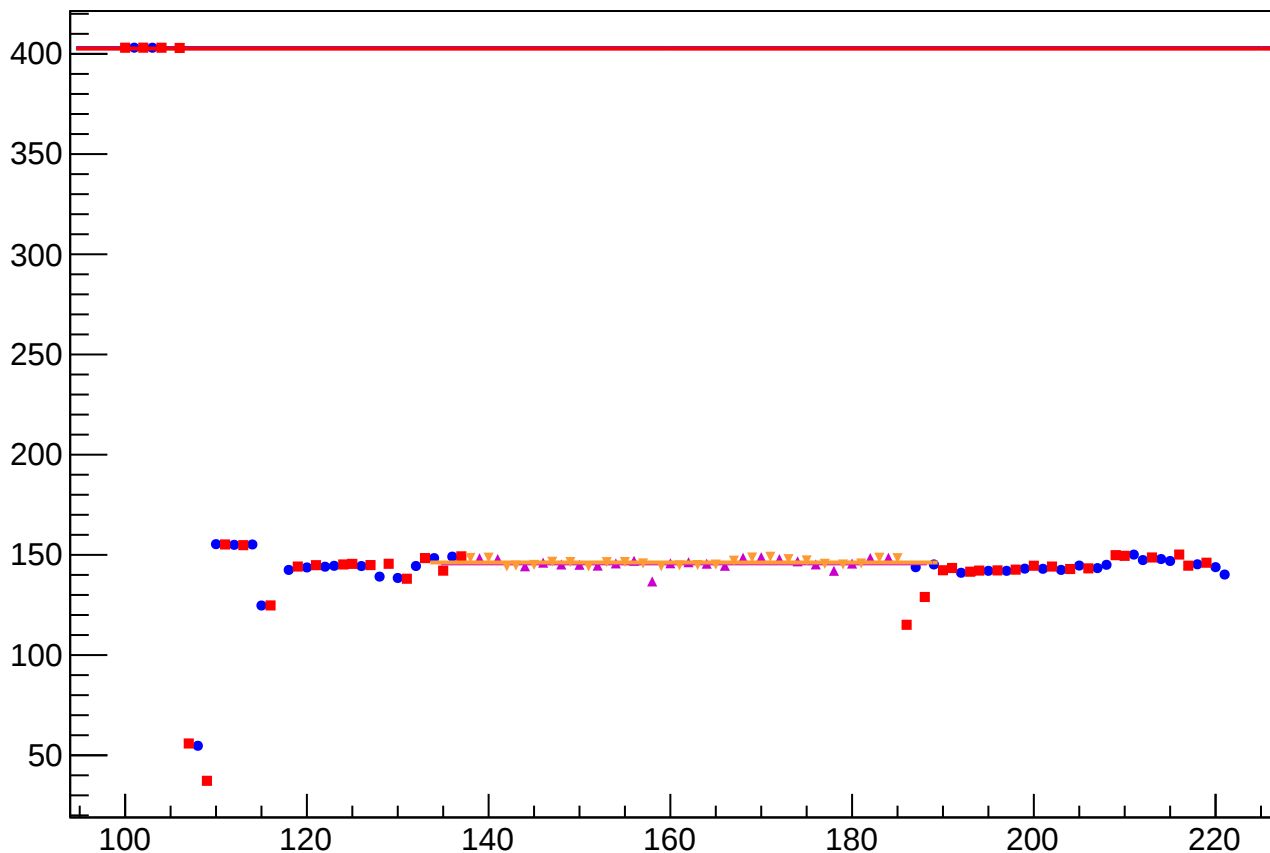
Right: 0.427 $\pm$ 0.000 χ^2 /NDF: 8085512.5/71

In: 0.442 $\pm$ 0.000 χ^2 /NDF:5460844.6/57

Out: 0.431 $\pm$ 0.000 χ^2 /NDF:5244232.2/61

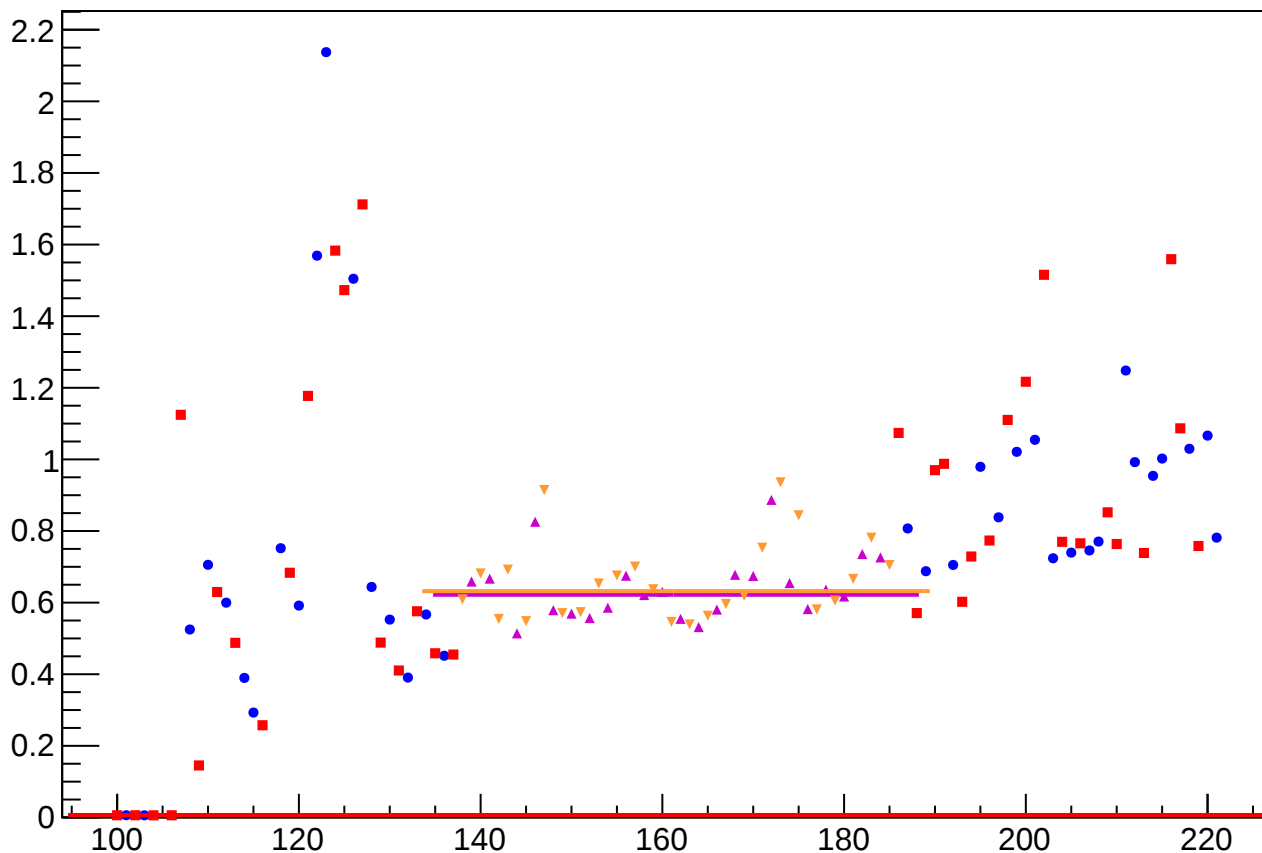
All: 0.436 $\pm$ 0.000 χ^2 /NDF: 10726360.9/119

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.837 $\pm$ 0.000	χ^2 /NDF: 2066087617861.5/34	Left: 145.990 $\pm$ 0.000	χ^2 /NDF: 297342055.1/47
Left Out: 146.205 $\pm$ 0.000	χ^2 /NDF: 86658381.3/24	Right: 402.753 $\pm$ 0.000	χ^2 /NDF: 6278982045411.1
Right Out: 402.678 $\pm$ 0.000	χ^2 /NDF: 4212475367769.0/36	In: 402.544 $\pm$ 0.000	χ^2 /NDF: 4413923489185.4/57
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.417 $\pm$ 0.000	χ^2 /NDF: 6579630608133.7/6
		All: 402.476 $\pm$ 0.000	χ^2 /NDF: 109938243038

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 30355154.6/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 30507750.8/36

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

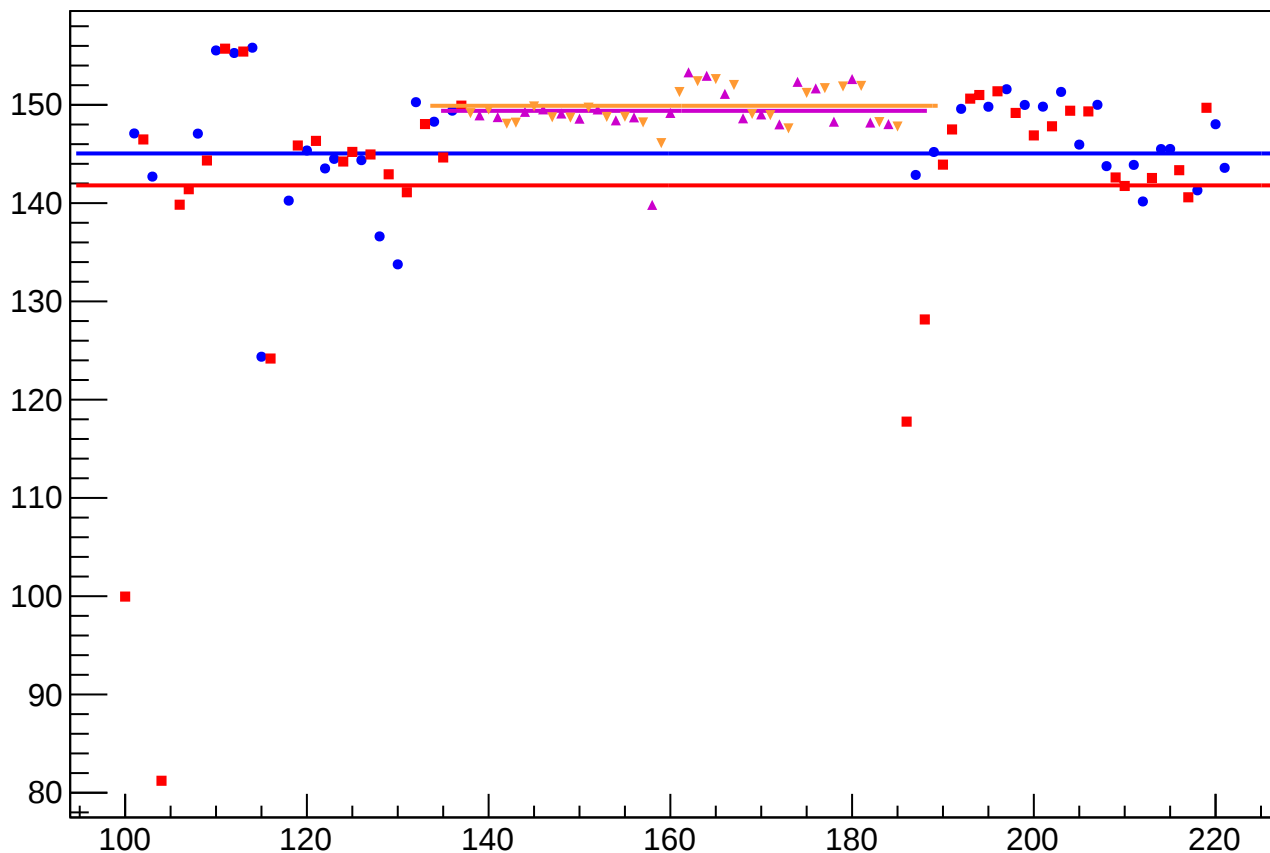
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 60862960.0/71

In: 0.007 $\pm$ 0.000 χ^2 /NDF:57651500.4/57

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:59273579.1/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 116925437.7/119

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.054 $\pm$ 0.000 χ^2 /NDF: 1388781927.8/34

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 141.804 $\pm$ 0.000 χ^2 /NDF: 3337613774.1/36

Left In: 149.391 $\pm$ 0.000 χ^2 /NDF: 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2 /NDF: 606930259.3/47

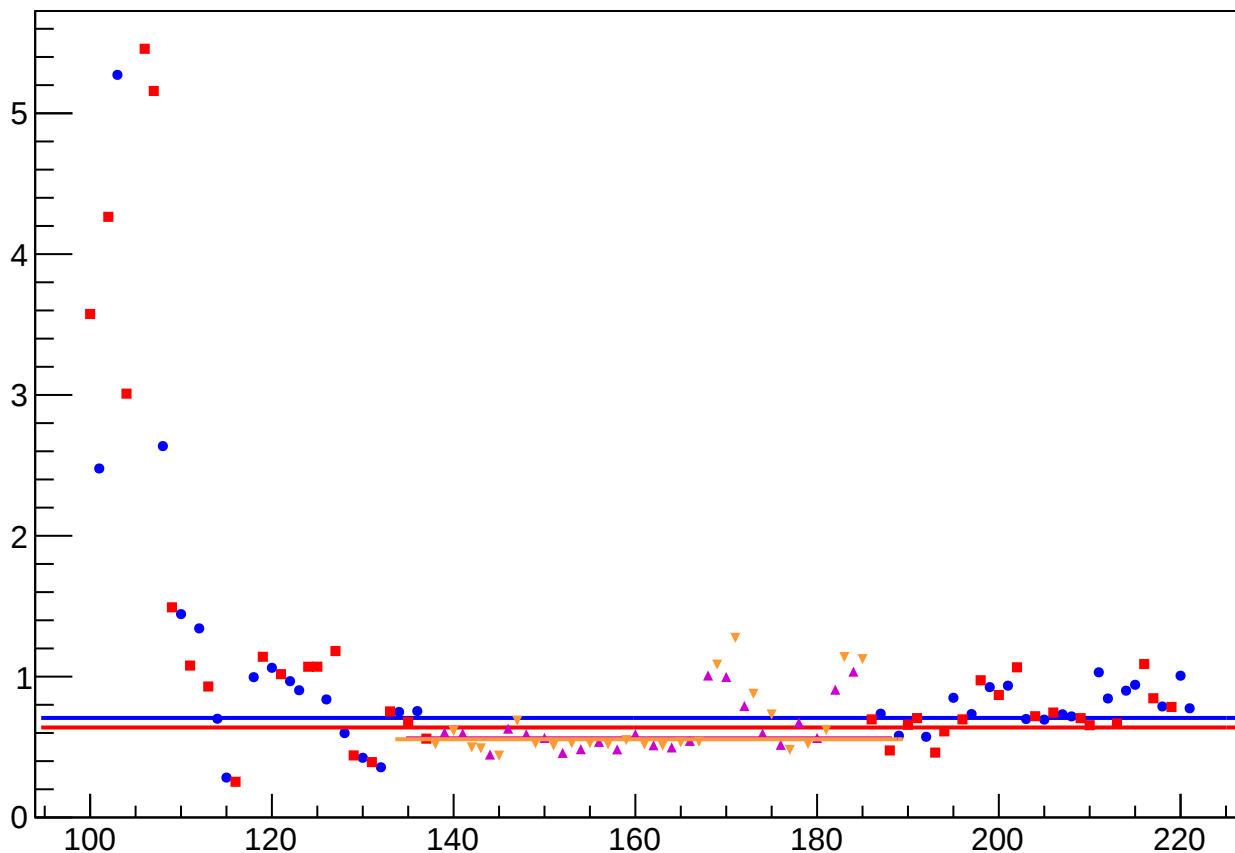
Right: 143.300 $\pm$ 0.000 χ^2 /NDF: 4890479523.9/71

In: 147.756 $\pm$ 0.000 χ^2 /NDF: 2163186514.0/57

Out: 146.676 $\pm$ 0.000 χ^2 /NDF: 4833375897.5/61

All: 147.188 $\pm$ 0.000 χ^2 /NDF: 7043431415.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.707 $\pm$ 0.000 χ^2 /NDF: 4515632.5/34

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.639 $\pm$ 0.000 χ^2 /NDF: 5968361.0/36

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

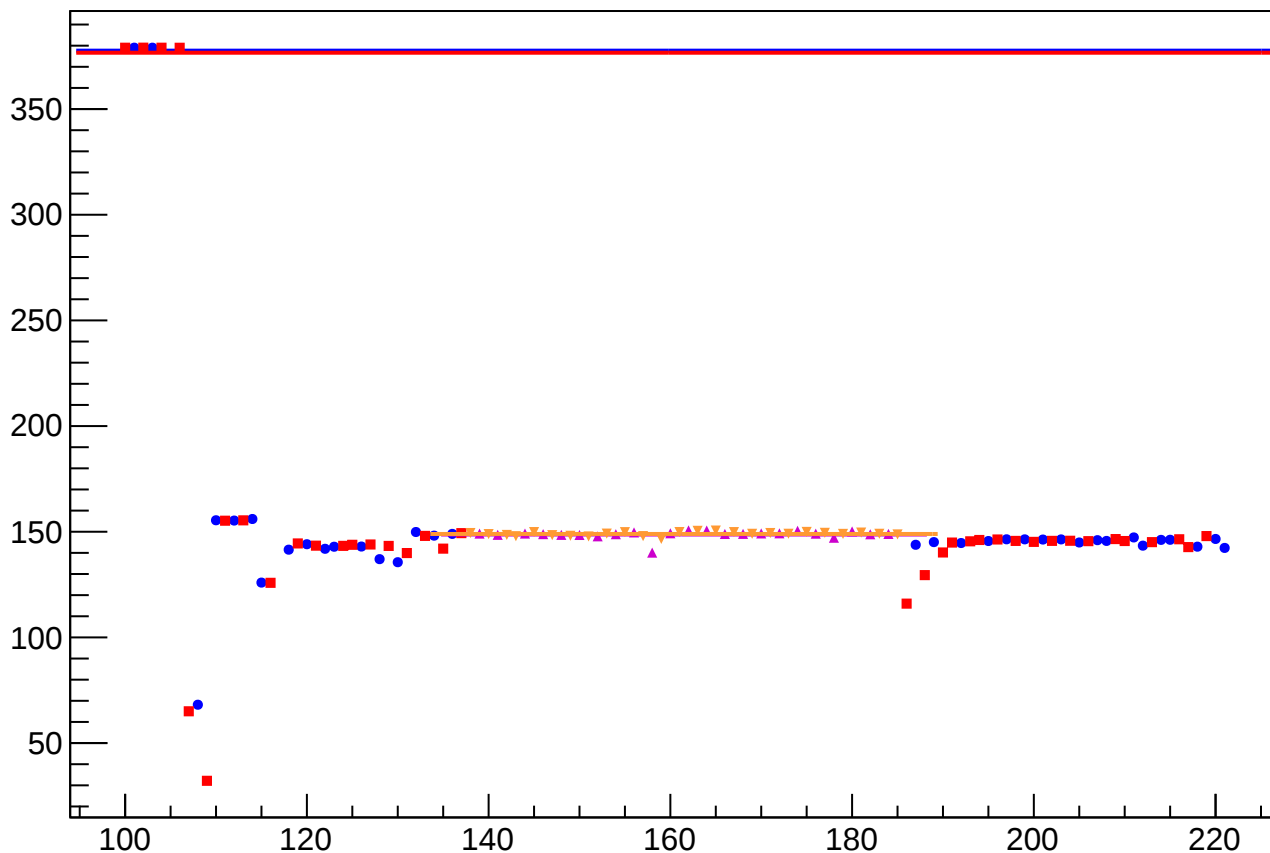
Right: 0.670 $\pm$ 0.000 χ^2 /NDF: 10626511.1/71

In: 0.617 $\pm$ 0.000 χ^2 /NDF:6576340.7/57

Out: 0.589 $\pm$ 0.000 χ^2 /NDF:8024888.1/61

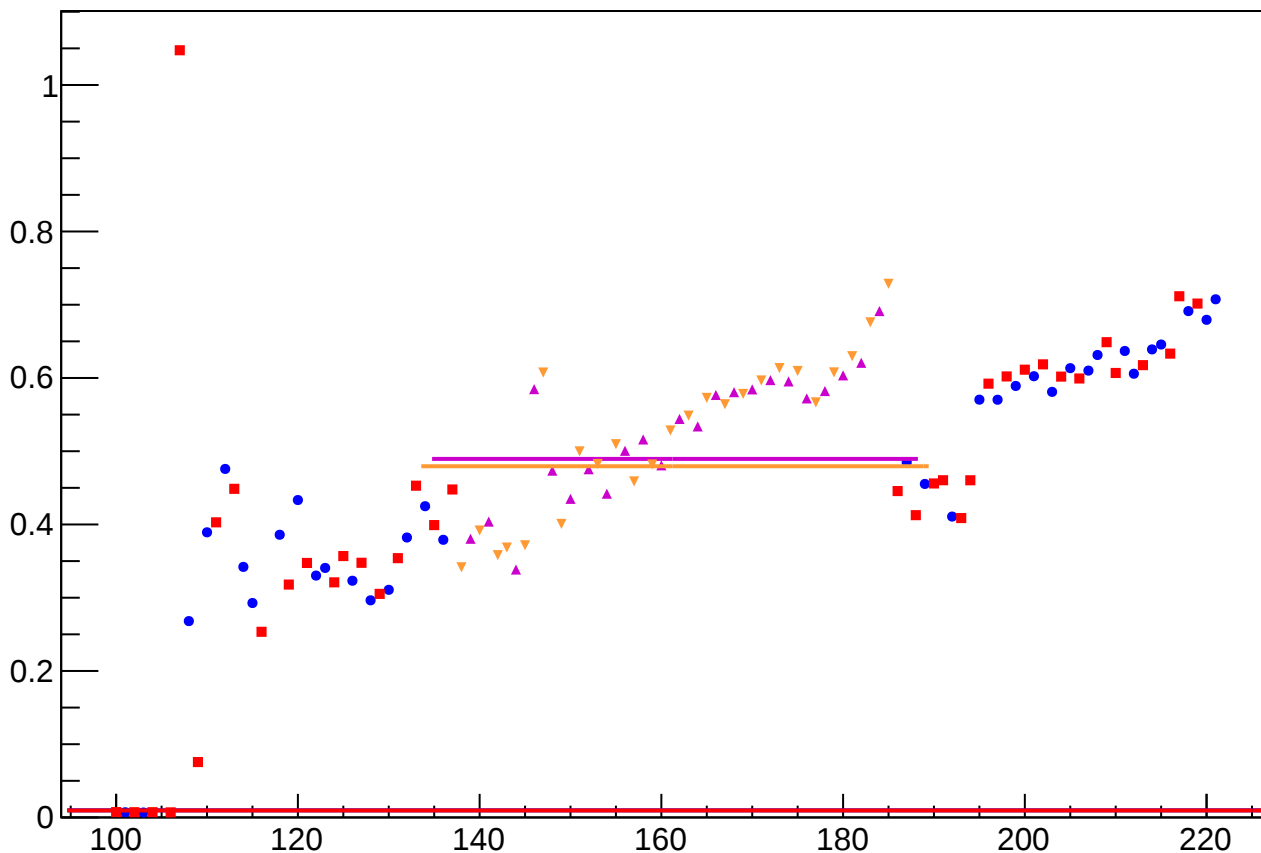
All: 0.602 $\pm$ 0.000 χ^2 /NDF: 14663548.5/119

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.639 $\pm$ 0.000	χ^2/NDF : 4503582911285.3/34	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: 377.121 $\pm$ 0.000	χ^2/NDF : 15016339280203.1
Right Out: 376.666 $\pm$ 0.000	χ^2/NDF : 10506024307883.4/36	In: 376.464 $\pm$ 0.000	χ^2/NDF : 8097551777140.3/57
Left In: 148.683 $\pm$ 0.000	χ^2/NDF : 253848207.3/22	Out: 375.552 $\pm$ 0.000	χ^2/NDF : 14369063689375.1
		All: 375.978 $\pm$ 0.000	χ^2/NDF : 224725580839.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 34715944.5/34

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 33045593.5/36

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

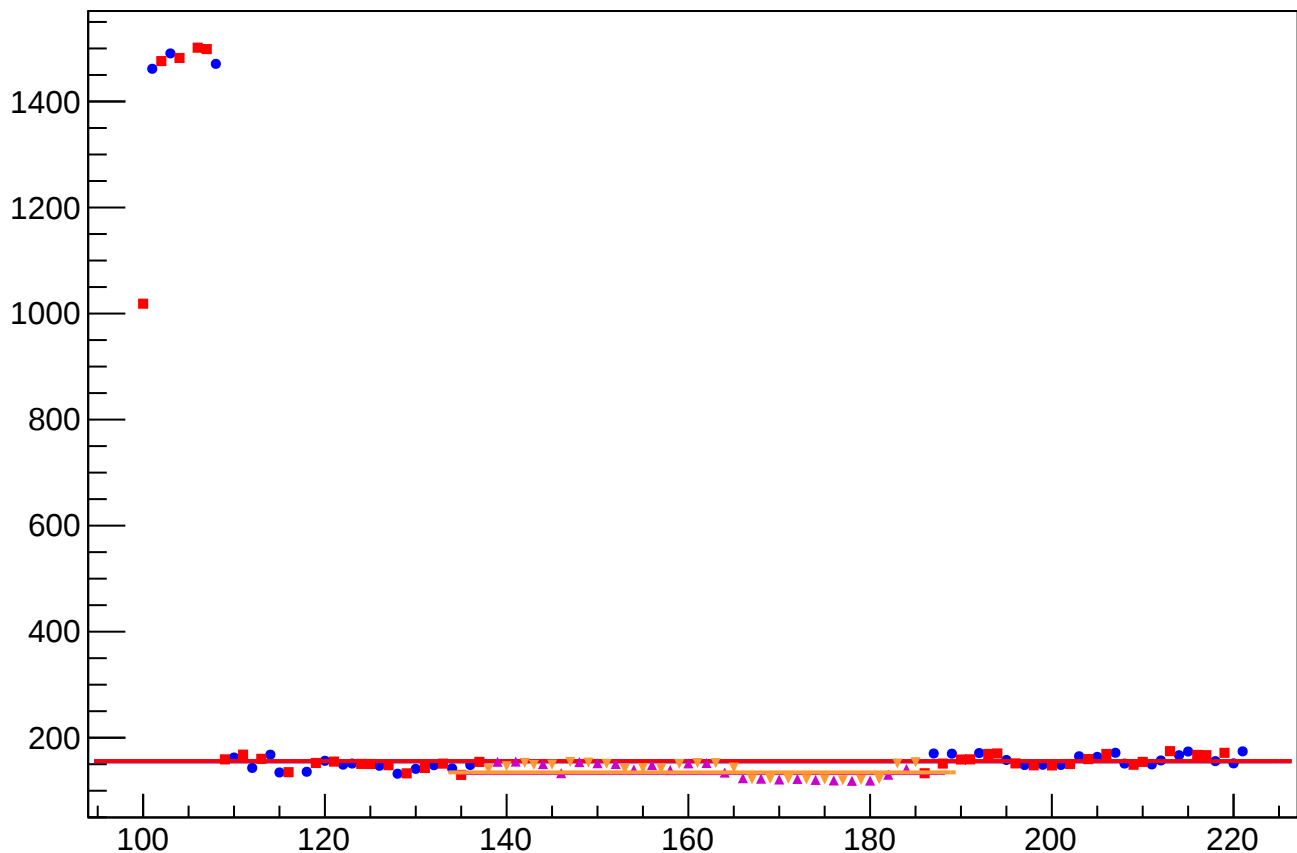
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 67761913.7/71

In: 0.012 $\pm$ 0.000 χ^2 /NDF:67370767.6/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:67467269.5/61

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 134839558.2/119

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.364+/-0.000 χ^2/NDF : 26312625578.3/34

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.865+/-0.000 χ^2/NDF : 35434719193.9/36

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

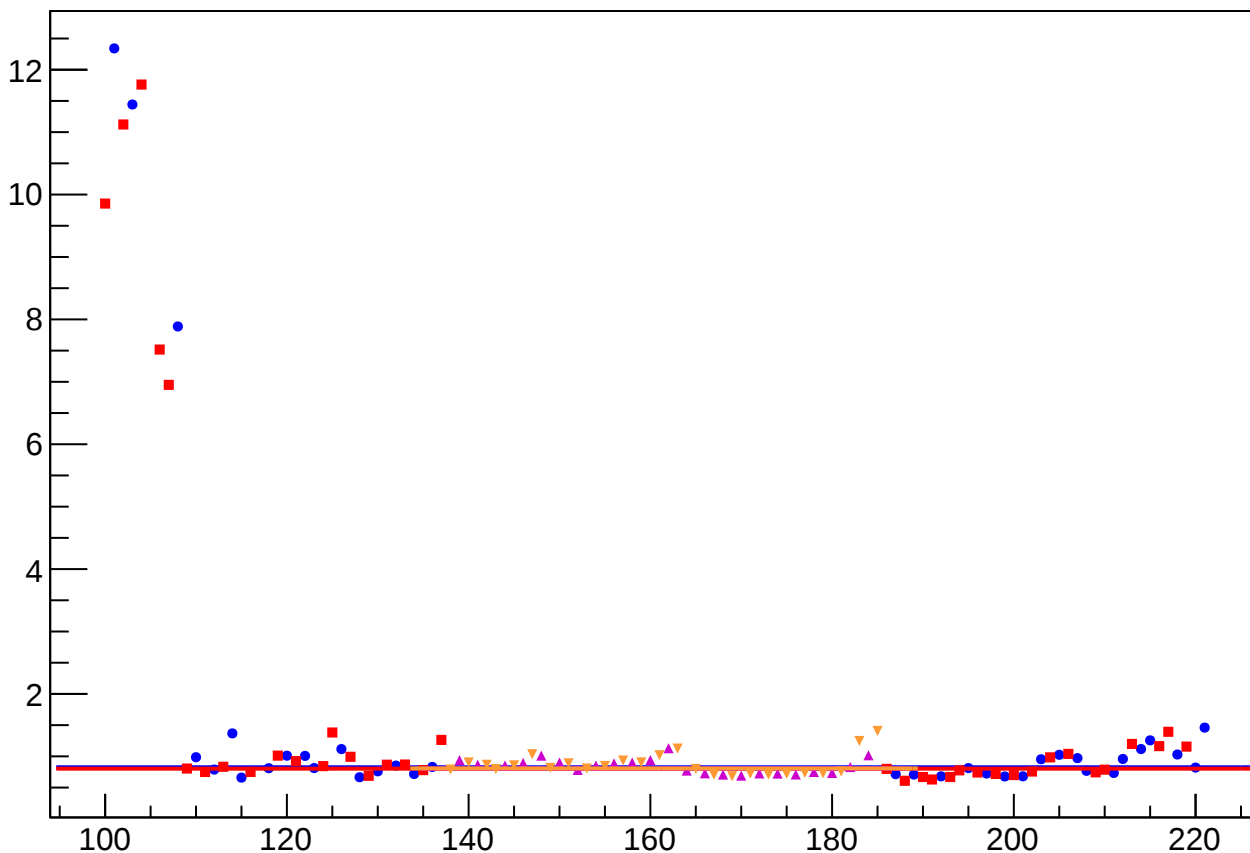
Right: 155.618+/-0.000 χ^2/NDF : 61750097222.6/71

In: 144.019+/-0.000 χ^2/NDF : 36085718844.1/57

Out: 144.859+/-0.000 χ^2/NDF : 45012370558.4/61

All: 144.445+/-0.000 χ^2/NDF : 81114053116.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.825 ± 0.000 χ^2/NDF : 3673434.6/34

Left Out: 0.807 ± 0.000 χ^2/NDF : 704181.3/24

Right Out: 0.803 ± 0.000 χ^2/NDF : 3933074.0/36

Left In: 0.805 ± 0.000 χ^2/NDF : 479689.4/22

Left: 0.806 ± 0.000 χ^2/NDF : 1183976.9/47

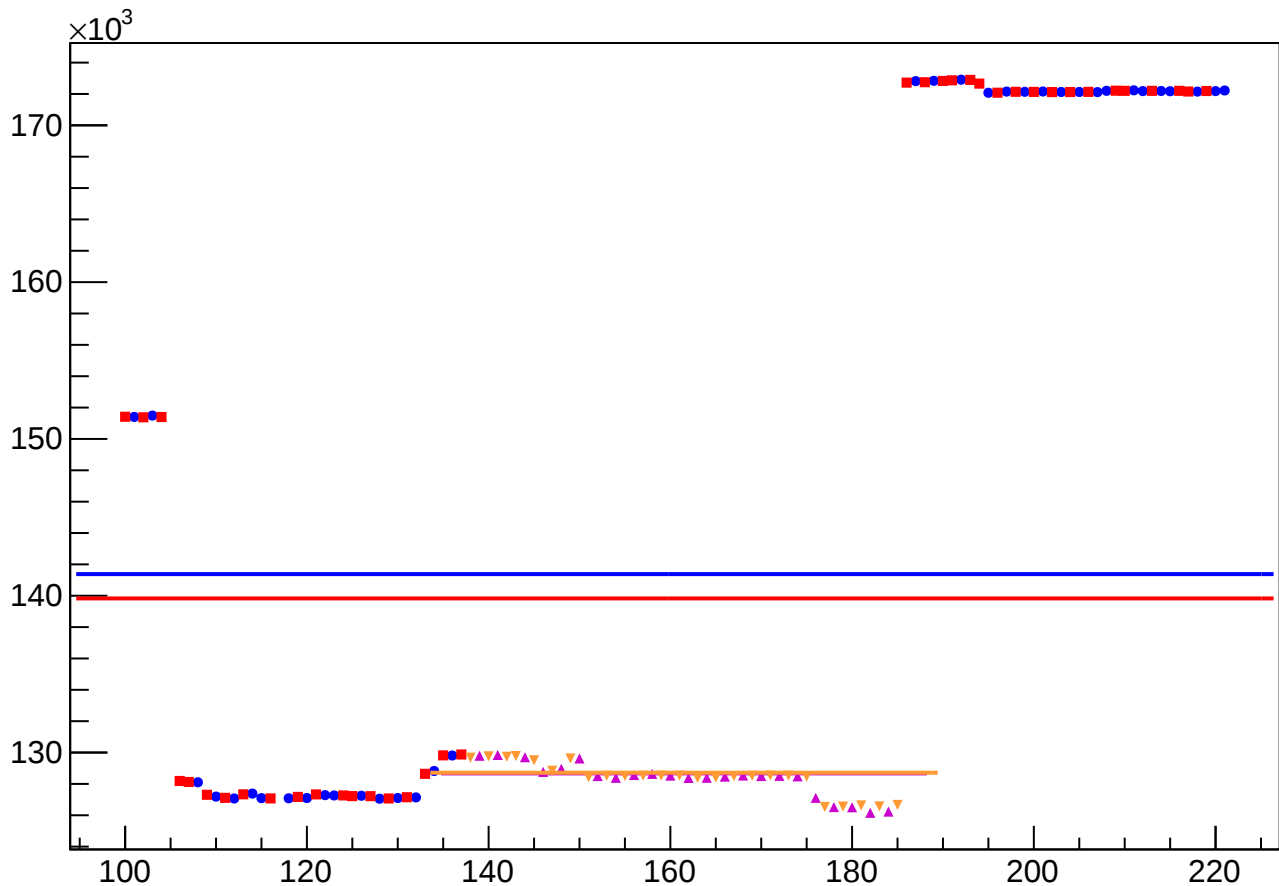
Right: 0.814 ± 0.000 χ^2/NDF : 7617678.7/71

In: 0.815 ± 0.000 χ^2/NDF : 4162696.3/57

Out: 0.805 ± 0.000 χ^2/NDF : 4637620.1/61

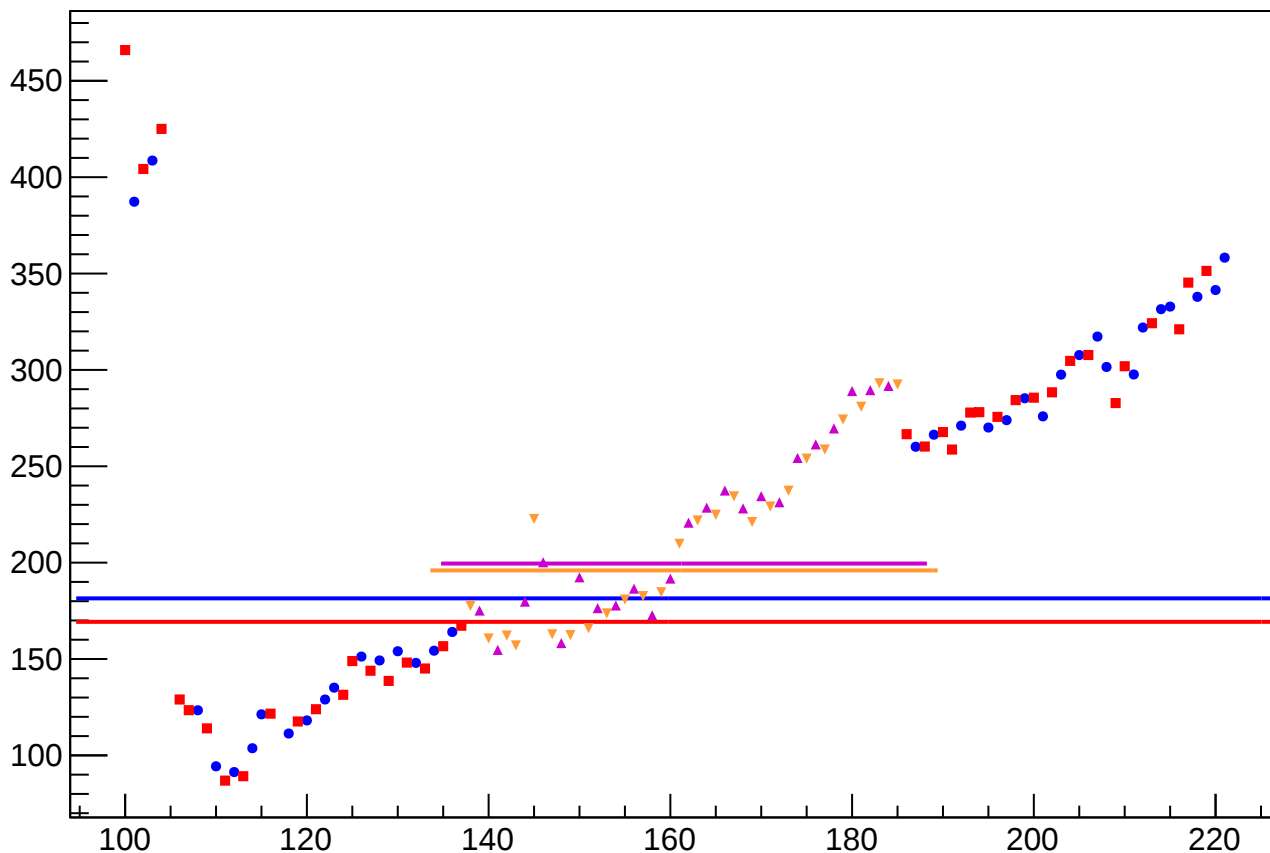
All: 0.810 ± 0.000 χ^2/NDF : 8804711.4/119

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 141379.181 $\pm$ 0.046	χ^2 /NDF: 202219704882.0/34	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 140559.276 $\pm$ 0.031	χ^2 /NDF: 414883991458
Right Out: 139827.962 $\pm$ 0.043	χ^2 /NDF: 212053912440.3/36	In: 135452.690 $\pm$ 0.033	χ^2 /NDF: 238701500438.7
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134708.562 $\pm$ 0.032	χ^2 /NDF: 243015852211.
		All: 135061.348 $\pm$ 0.023	χ^2 /NDF: 481979220

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 181.464 $\pm$ 0.032 χ^2 /NDF: 7598791.0/34

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 169.286 $\pm$ 0.030 χ^2 /NDF: 7628770.9/36

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

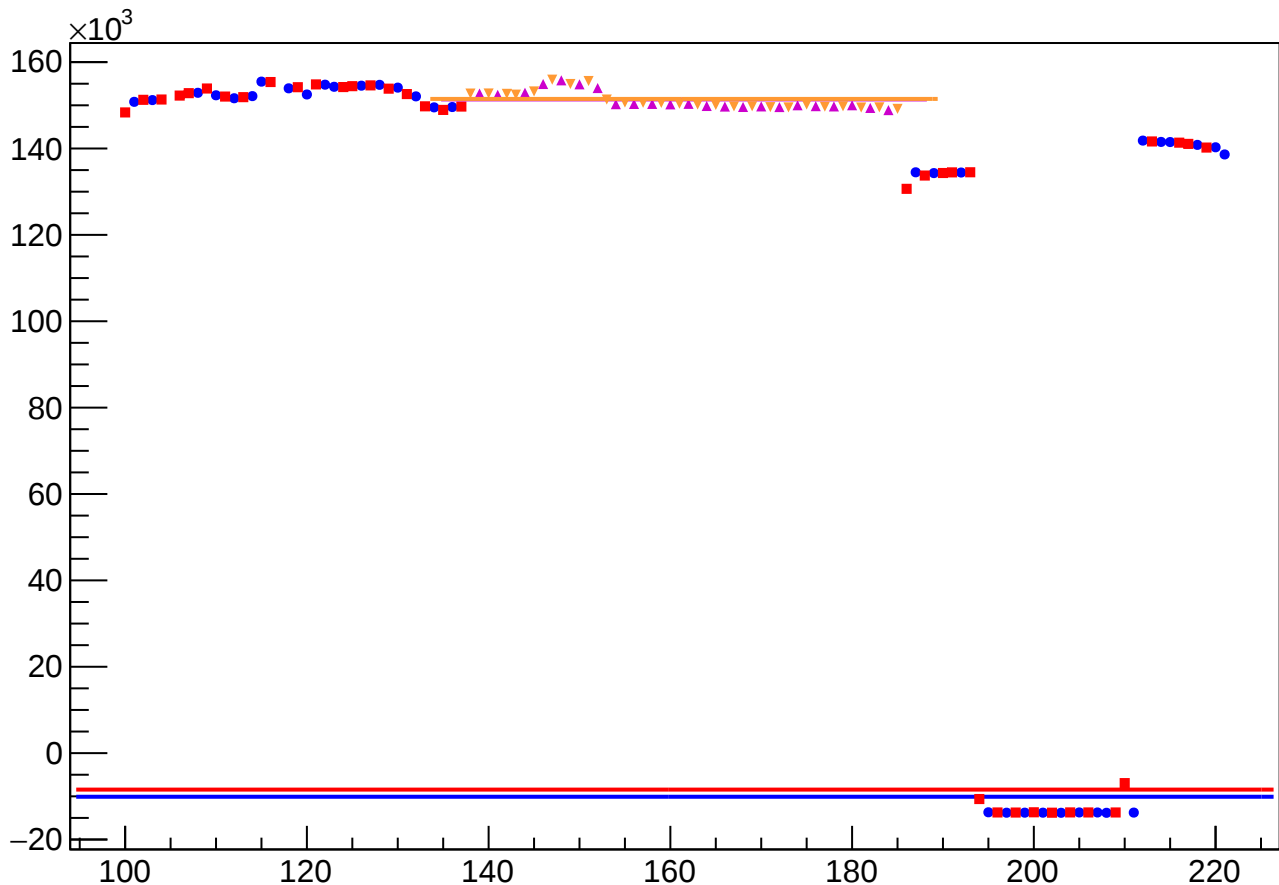
Right: 175.028 $\pm$ 0.022 χ^2 /NDF: 15302803.4/71

In: 189.889 $\pm$ 0.024 χ^2 /NDF:8920227.1/57

Out: 181.574 $\pm$ 0.022 χ^2 /NDF:9297631.9/61

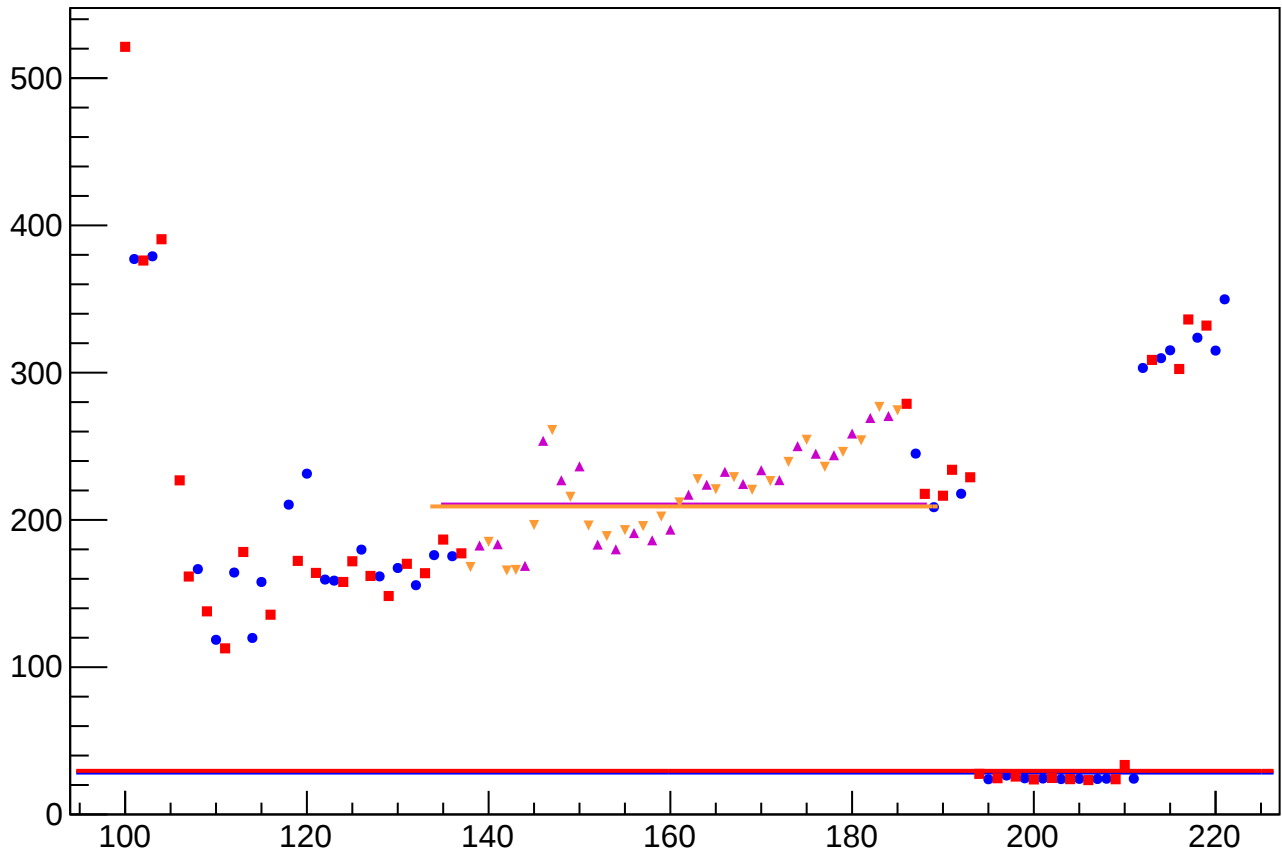
All: 185.516 $\pm$ 0.016 χ^2 /NDF: 18283252.1/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10097.810+/-0.009	χ^2/NDF : 6913232029028.0/34	Left: 151423.440+/-0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339+/-0.049	χ^2/NDF : 1483692735.3/24	Right: -9344.058+/-0.007	χ^2/NDF : 1475378011535
Right Out: -8441.955+/-0.010	χ^2/NDF : 7825736925962.9/36	In: -5073.658+/-0.009	χ^2/NDF : 16541121638662.4
Left In: 151362.440+/-0.051	χ^2/NDF : 1426782789.9/22	Out: -2112.817+/-0.010	χ^2/NDF : 17863290921293
		All: -3719.430+/-0.007	χ^2/NDF : 3445352300

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.440 ± 0.006 $\chi^2/\text{NDF}: 19261496.6/34$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 29.614 ± 0.007 $\chi^2/\text{NDF}: 18462619.3/36$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

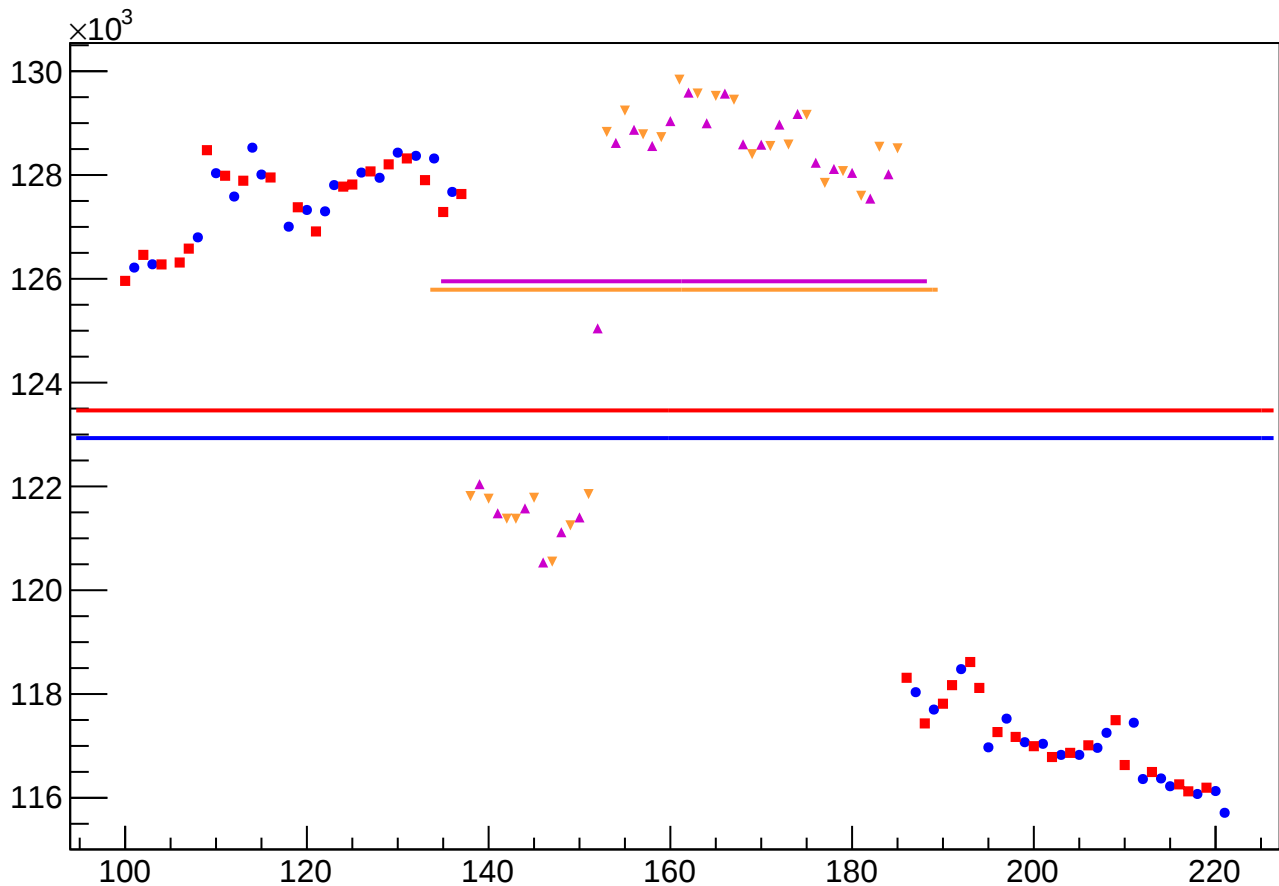
Right: 28.974 ± 0.005 $\chi^2/\text{NDF}: 37739026.8/71$

In: 34.103 ± 0.006 $\chi^2/\text{NDF}: 44406009.4/57$

Out: 36.720 ± 0.007 $\chi^2/\text{NDF}: 44471749.6/61$

All: 35.300 ± 0.005 $\chi^2/\text{NDF}: 88954513.9/119$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 122931.169+/-0.043

χ^2/NDF : 15255964131.3/34

Left Out: 125790.126+/-0.044

χ^2/NDF : 6744310079.8/24

Right Out: 123464.348+/-0.042

χ^2/NDF : 15284952101.3/36

Left In: 125952.447+/-0.045

χ^2/NDF : 5841800367.5/22

Left: 125870.001+/-0.031

χ^2/NDF : 12592819321.6/24

Right: 123206.476+/-0.030

χ^2/NDF : 30618567020.9/24

In: 124401.217+/-0.031

χ^2/NDF : 23447271387.6/5

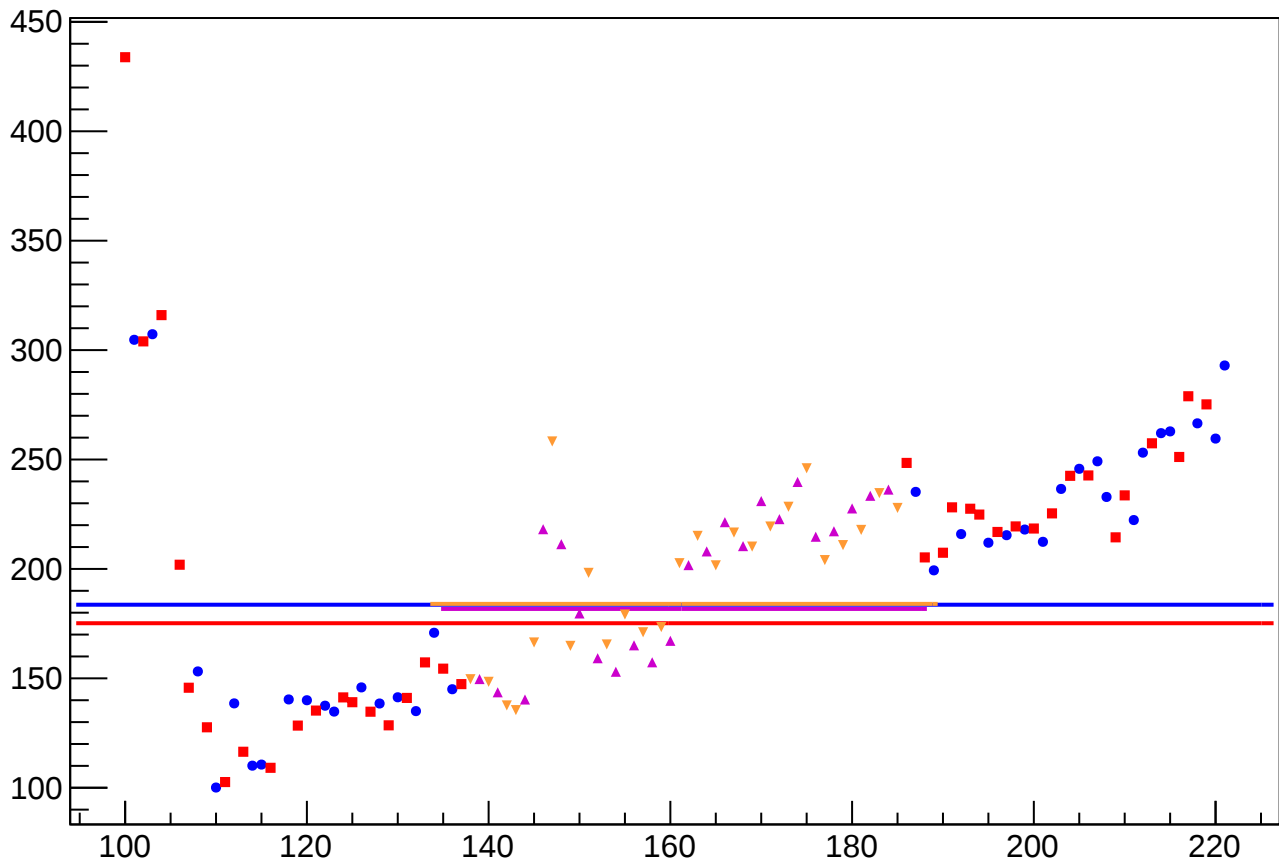
Out: 124576.387+/-0.030

χ^2/NDF : 23489946939.1/5

All: 124490.954+/-0.022

χ^2/NDF : 469534138/5

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 183.646 $\pm$ 0.031 χ^2 /NDF: 3349872.8/34

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 175.186 $\pm$ 0.030 χ^2 /NDF: 3566313.3/36

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF:1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

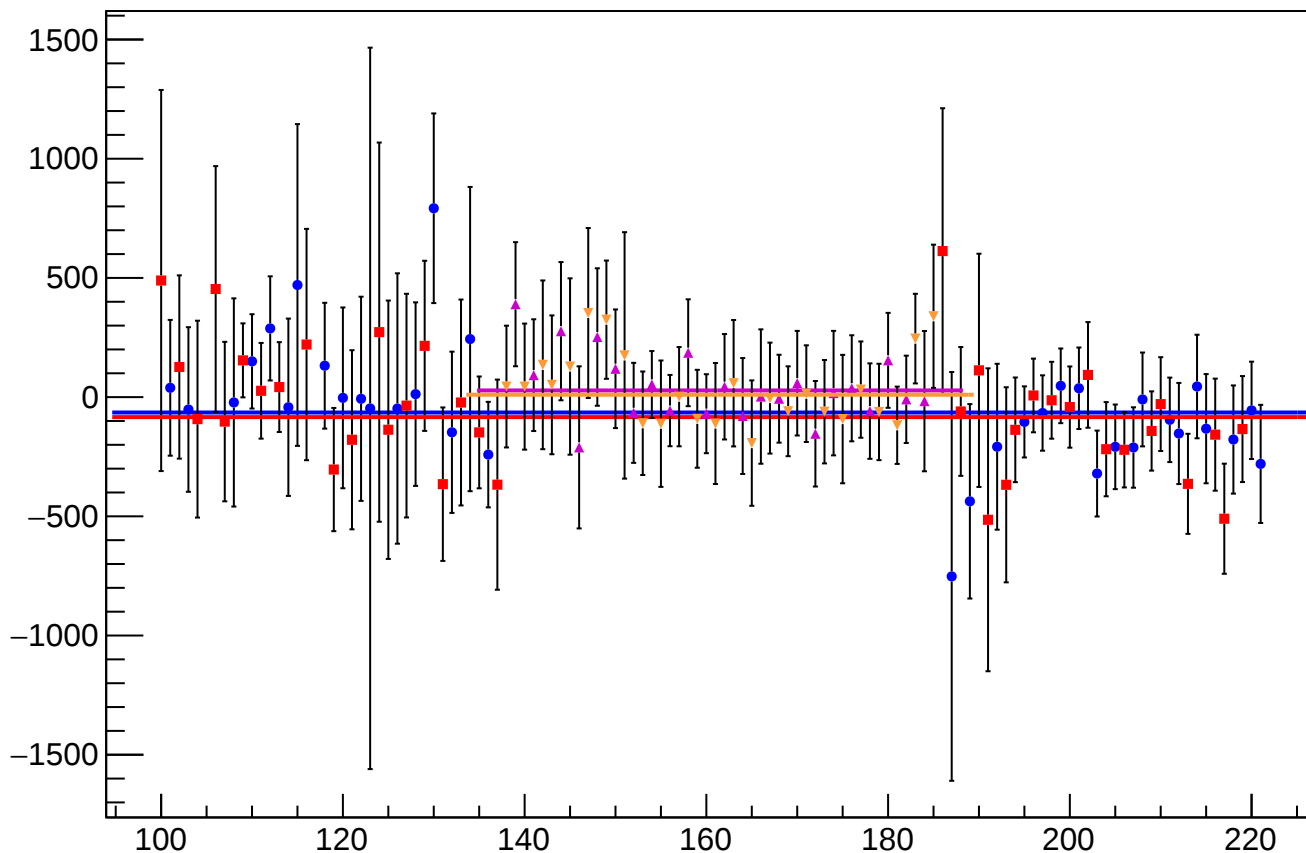
Right: 179.278 $\pm$ 0.021 χ^2 /NDF: 6955282.8/71

In: 182.706 $\pm$ 0.022 χ^2 /NDF:4467936.7/57

Out: 179.414 $\pm$ 0.021 χ^2 /NDF:4735137.1/61

All: 181.020 $\pm$ 0.015 χ^2 /NDF: 9214510.4/119

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -64.520 ± 40.485 χ^2/NDF : 18.4/34

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -83.794 ± 40.960 χ^2/NDF : 18.9/36

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

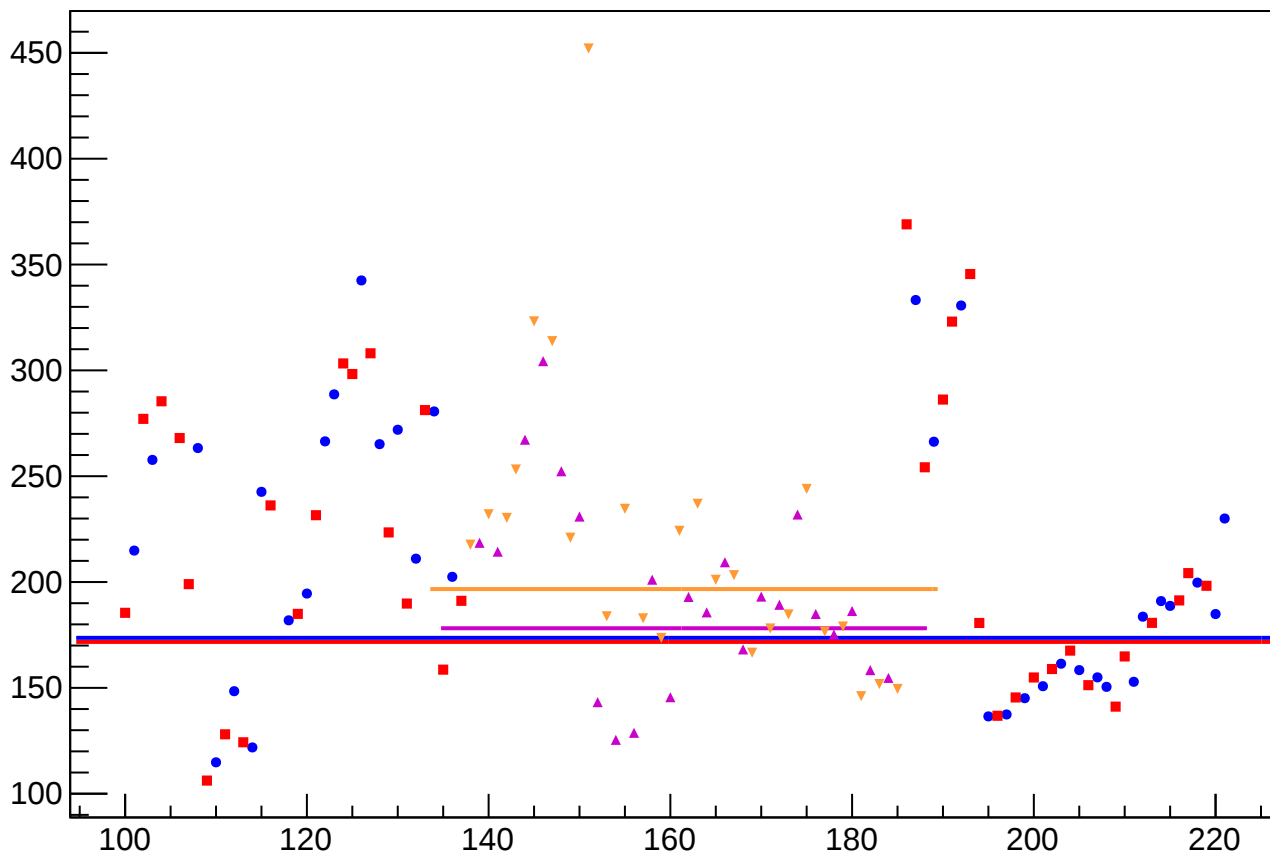
Right: -74.044 ± 28.794 χ^2/NDF : 37.4/71

In: -22.674 ± 29.968 χ^2/NDF : 27.7/57

Out: -43.749 ± 31.017 χ^2/NDF : 29.6/61

All: -32.849 ± 21.552 χ^2/NDF : 57.6/119

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.636+/-0.029 χ^2/NDF : 2325035.9/34

Left Out: 196.682+/-0.034 χ^2/NDF : 1782715.7/24

Right Out: 171.709+/-0.029 χ^2/NDF : 2936501.1/36

Left In: 178.166+/-0.032 χ^2/NDF : 1618967.9/22

Left: 186.838+/-0.023 χ^2/NDF : 3563331.3/47

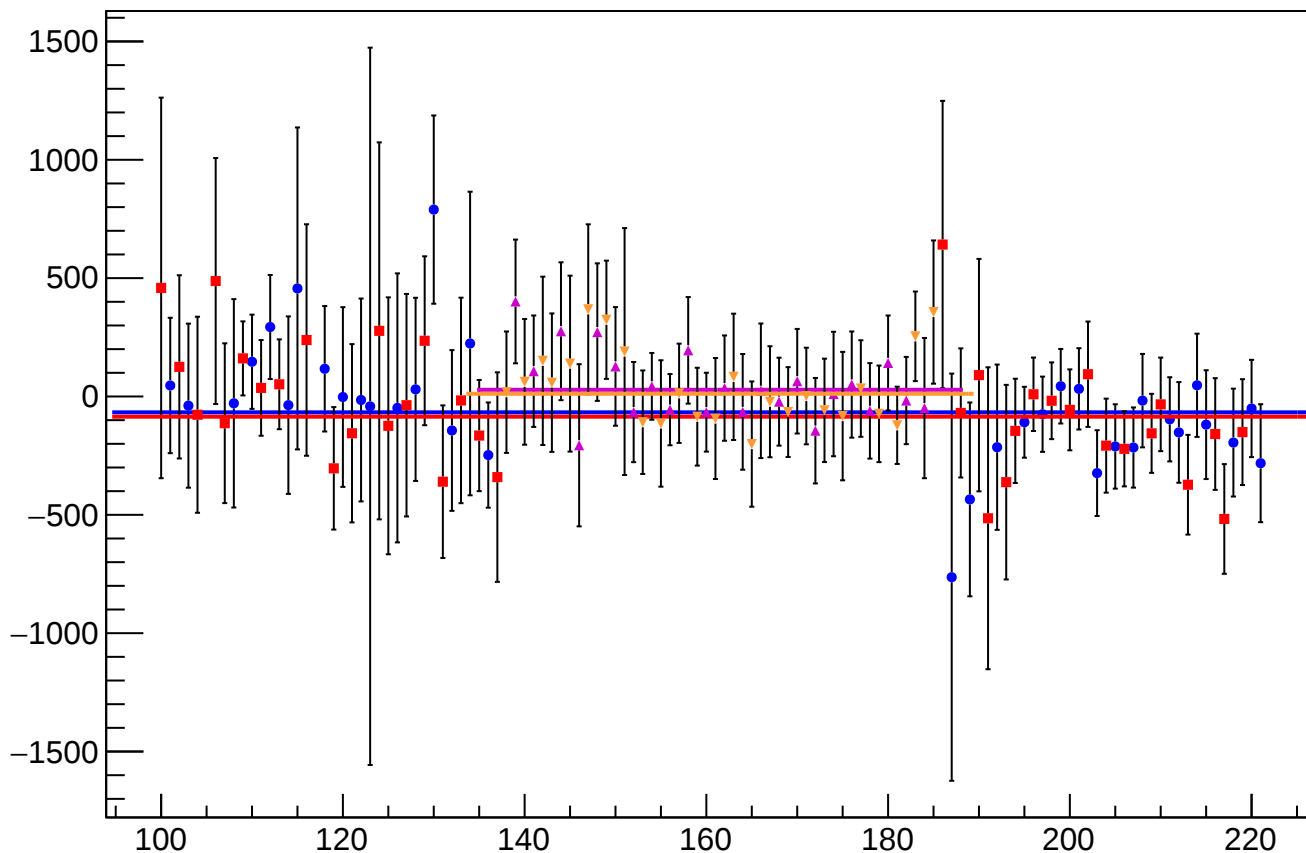
Right: 172.684+/-0.020 χ^2/NDF : 5263774.6/71

In: 175.683+/-0.021 χ^2/NDF : 3955323.1/57

Out: 182.362+/-0.022 χ^2/NDF : 5036346.4/61

All: 178.908+/-0.015 χ^2/NDF : 9039631.9/119

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -67.014 ± 40.672 $\chi^2/\text{NDF}: 18.4/34$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -85.331 ± 41.158 $\chi^2/\text{NDF}: 19.4/36$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

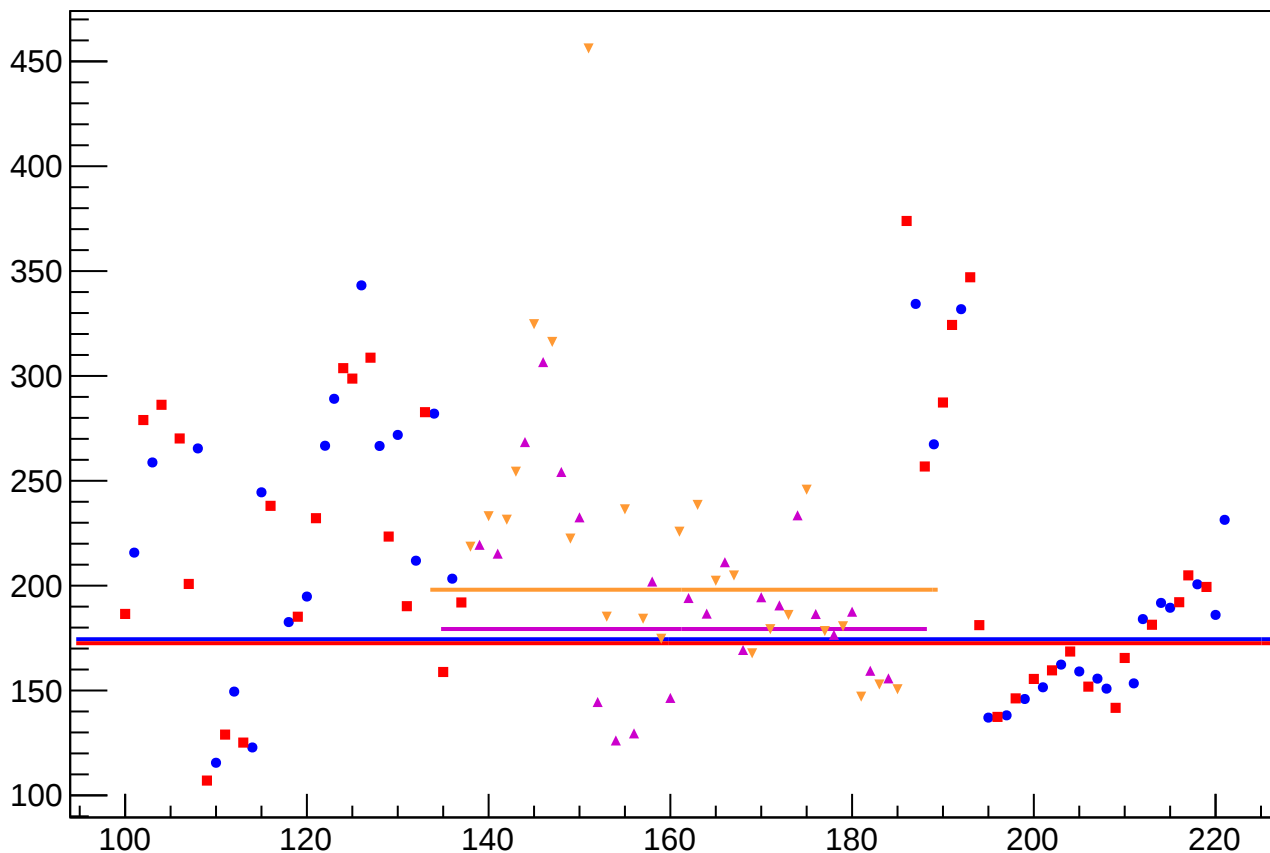
Right: -76.064 ± 28.929 $\chi^2/\text{NDF}: 37.9/71$

In: -24.026 ± 30.132 $\chi^2/\text{NDF}: 27.9/57$

Out: -44.134 ± 31.194 $\chi^2/\text{NDF}: 30.6/61$

All: -33.732 ± 21.673 $\chi^2/\text{NDF}: 58.8/119$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.453 $\pm$ 0.029 χ^2/NDF : 2317326.5/34

Left Out: 198.059 $\pm$ 0.034 χ^2/NDF : 1778526.5/24

Right Out: 172.547 $\pm$ 0.029 χ^2/NDF : 2931805.8/36

Left In: 179.324 $\pm$ 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2/NDF : 3560073.1/47

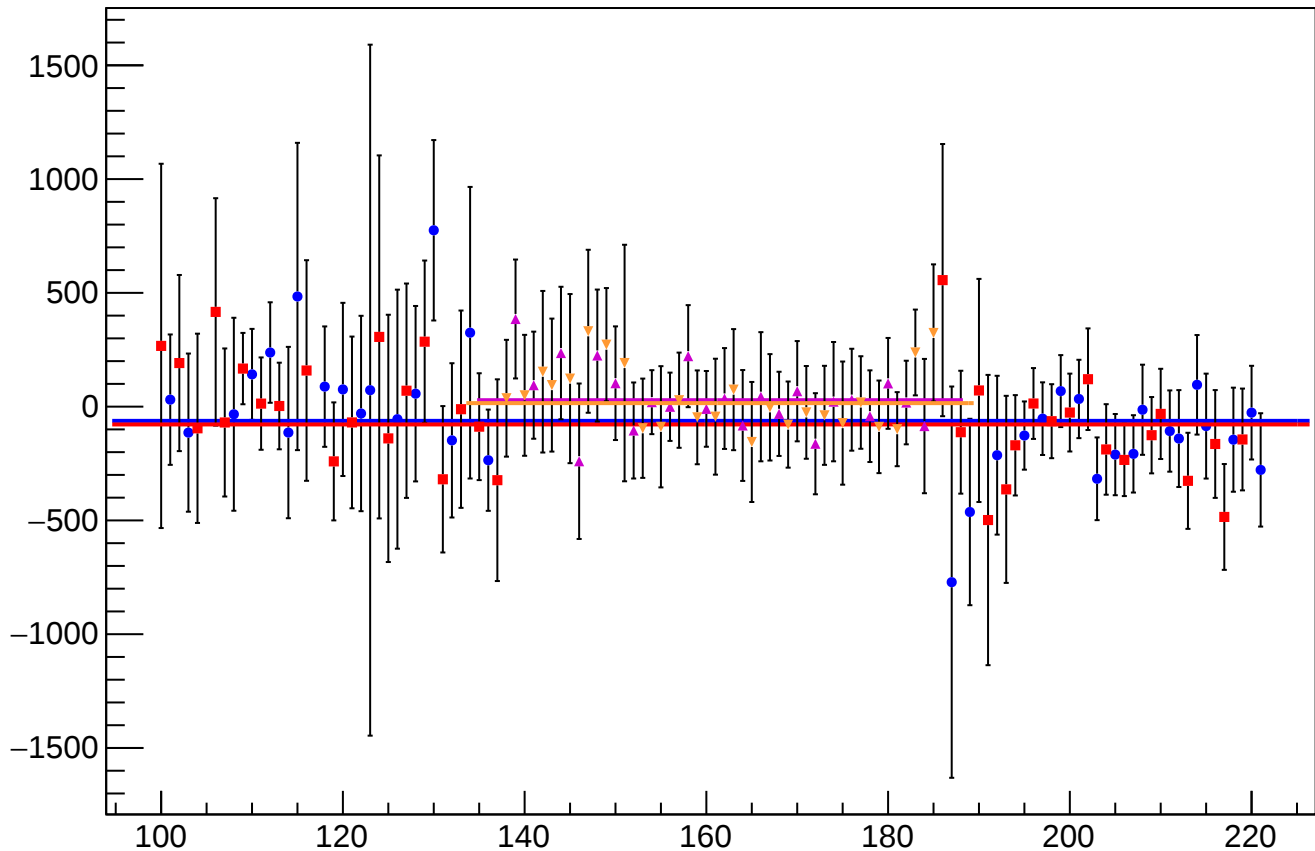
Right: 173.511 $\pm$ 0.020 χ^2/NDF : 5251303.0/71

In: 176.650 $\pm$ 0.021 χ^2/NDF : 3948533.2/57

Out: 183.403 $\pm$ 0.022 χ^2/NDF : 5037354.2/61

All: 179.910 $\pm$ 0.015 χ^2/NDF : 9034375.1/119

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -62.508 ± 40.752 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -78.251 ± 41.194 $\chi^2/\text{NDF}: 17.0/36$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

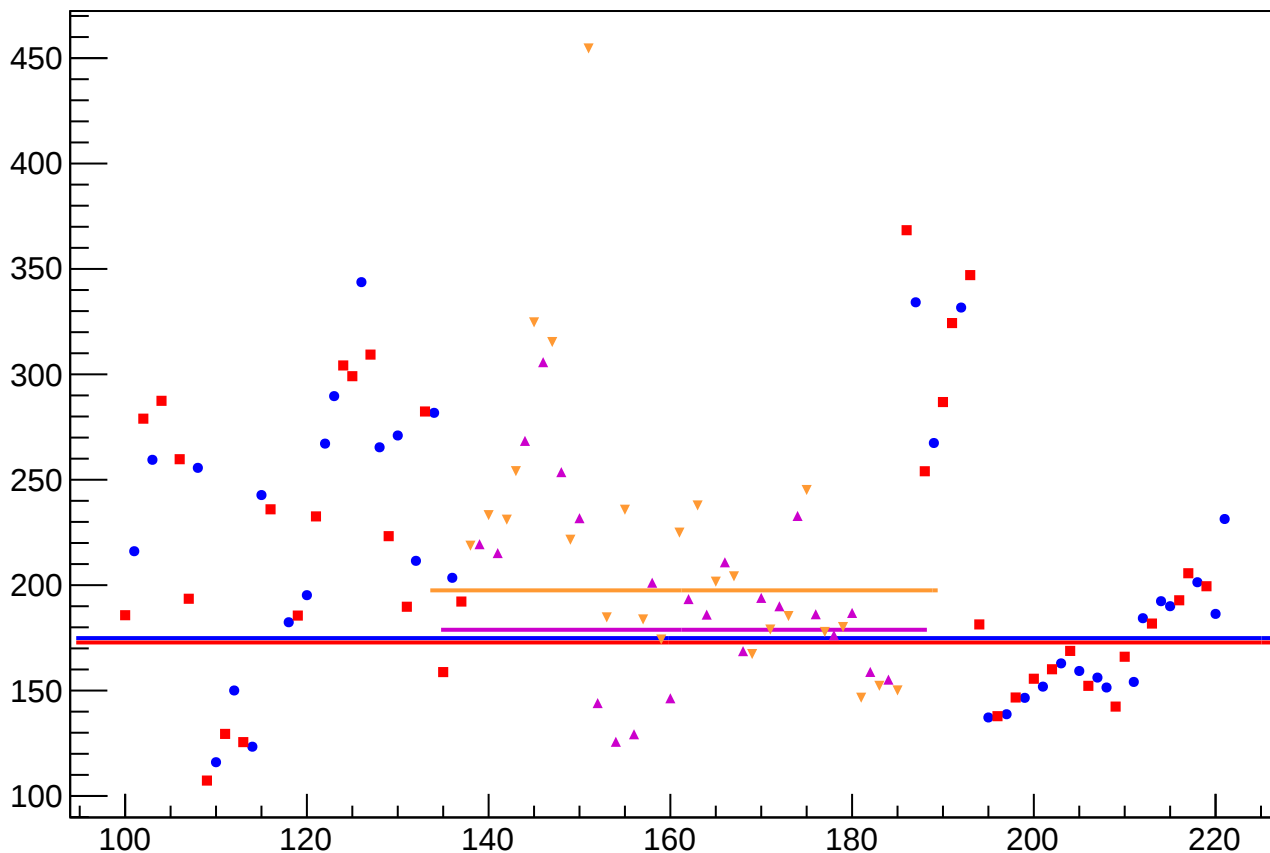
Right: -70.295 ± 28.971 $\chi^2/\text{NDF}: 34.9/71$

In: -21.344 ± 30.129 $\chi^2/\text{NDF}: 26.5/57$

Out: -38.222 ± 31.176 $\chi^2/\text{NDF}: 26.2/61$

All: -29.495 ± 21.665 $\chi^2/\text{NDF}: 52.8/119$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.885 $\pm$ 0.029 χ^2 /NDF: 2283703.7/34

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 172.810 $\pm$ 0.029 χ^2 /NDF: 2885404.0/36

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

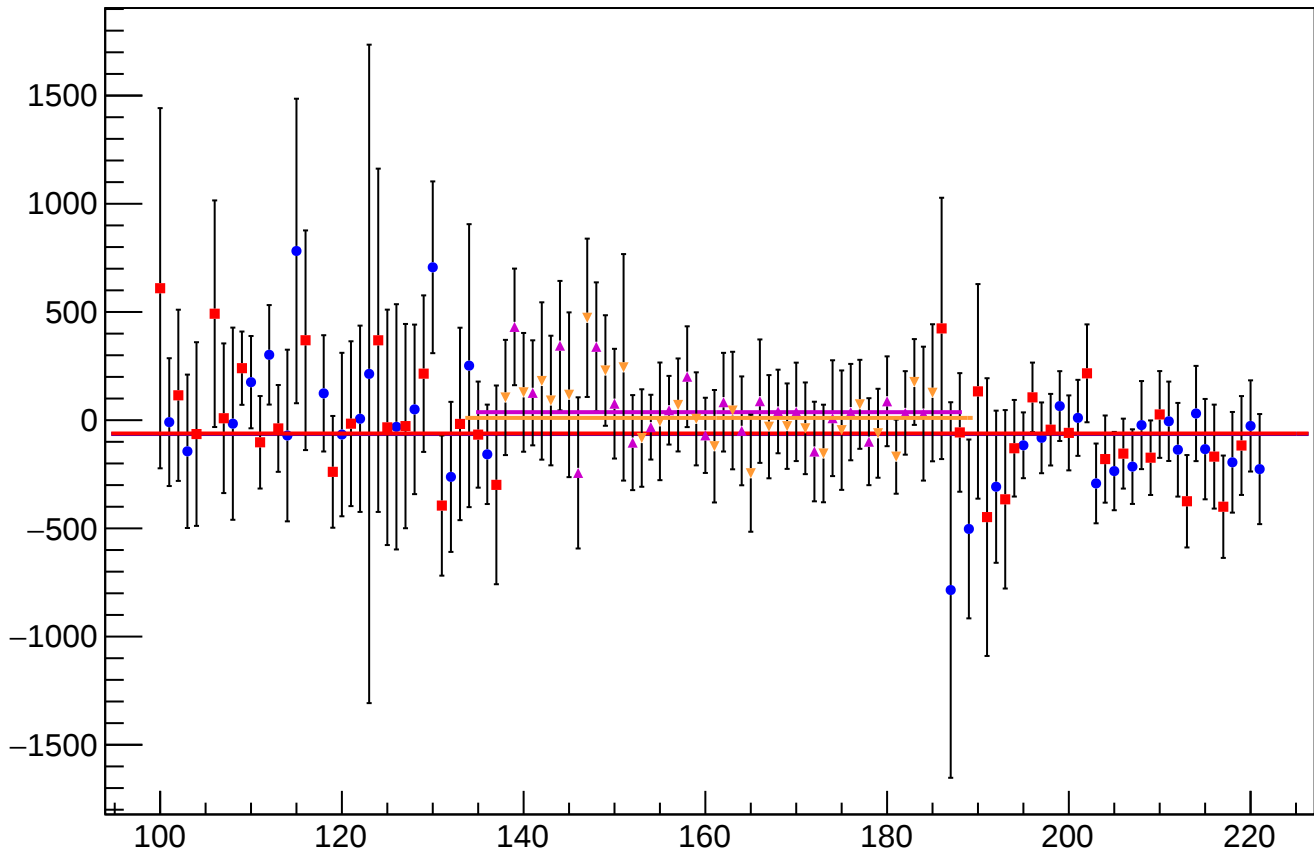
Right: 173.858 $\pm$ 0.020 χ^2 /NDF: 5171672.2/71

In: 176.676 $\pm$ 0.021 χ^2 /NDF:3914494.1/57

Out: 183.370 $\pm$ 0.022 χ^2 /NDF:4977282.1/61

All: 179.909 $\pm$ 0.015 χ^2 /NDF: 8939459.4/119

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -64.022 ± 41.617 $\chi^2/\text{NDF}: 18.2/34$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -61.587 ± 42.246 $\chi^2/\text{NDF}: 18.8/36$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

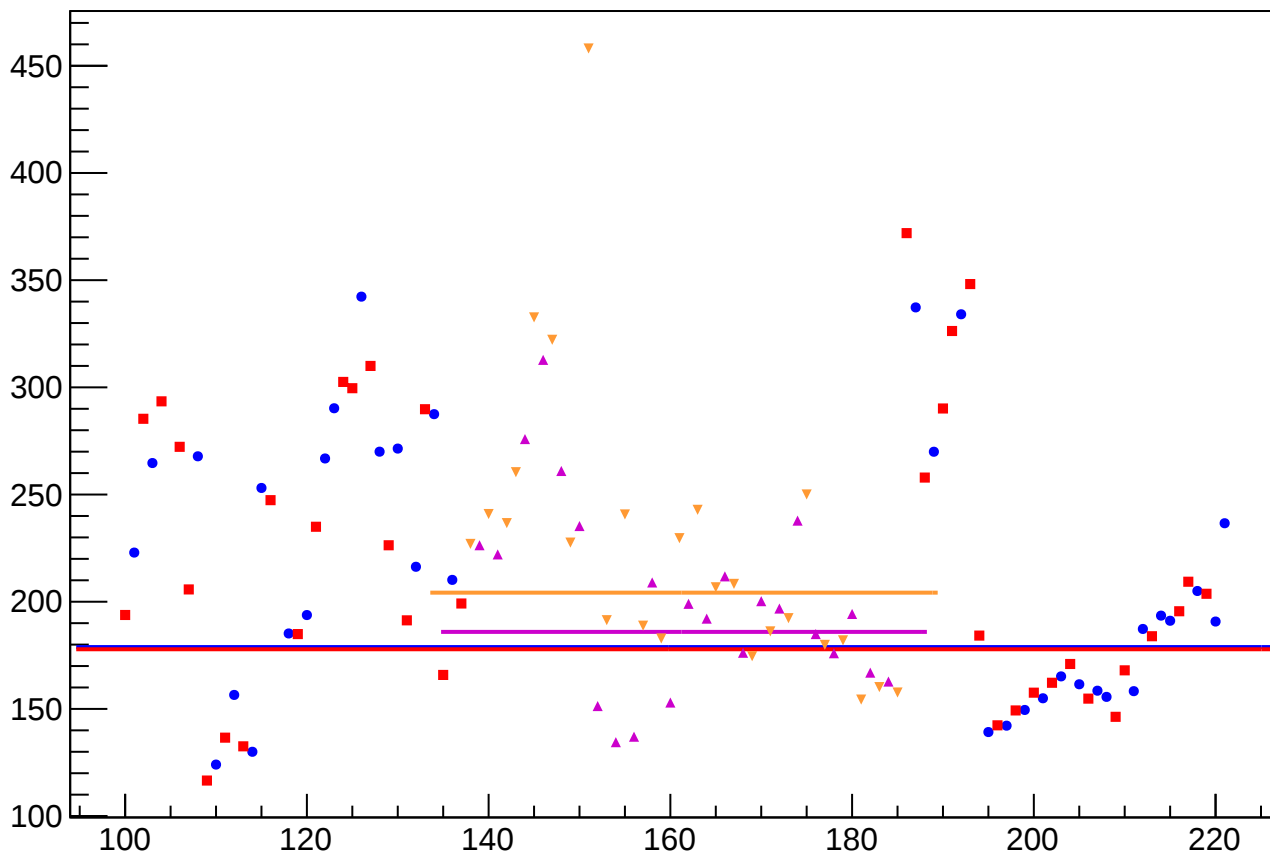
Right: -62.823 ± 29.647 $\chi^2/\text{NDF}: 37.0/71$

In: -18.939 ± 30.969 $\chi^2/\text{NDF}: 28.7/57$

Out: -30.977 ± 32.050 $\chi^2/\text{NDF}: 27.5/61$

All: -24.751 ± 22.271 $\chi^2/\text{NDF}: 56.3/119$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 178.848 $\pm$ 0.029 χ^2 /NDF: 2198143.4/34

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 177.826 $\pm$ 0.030 χ^2 /NDF: 2691450.4/36

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

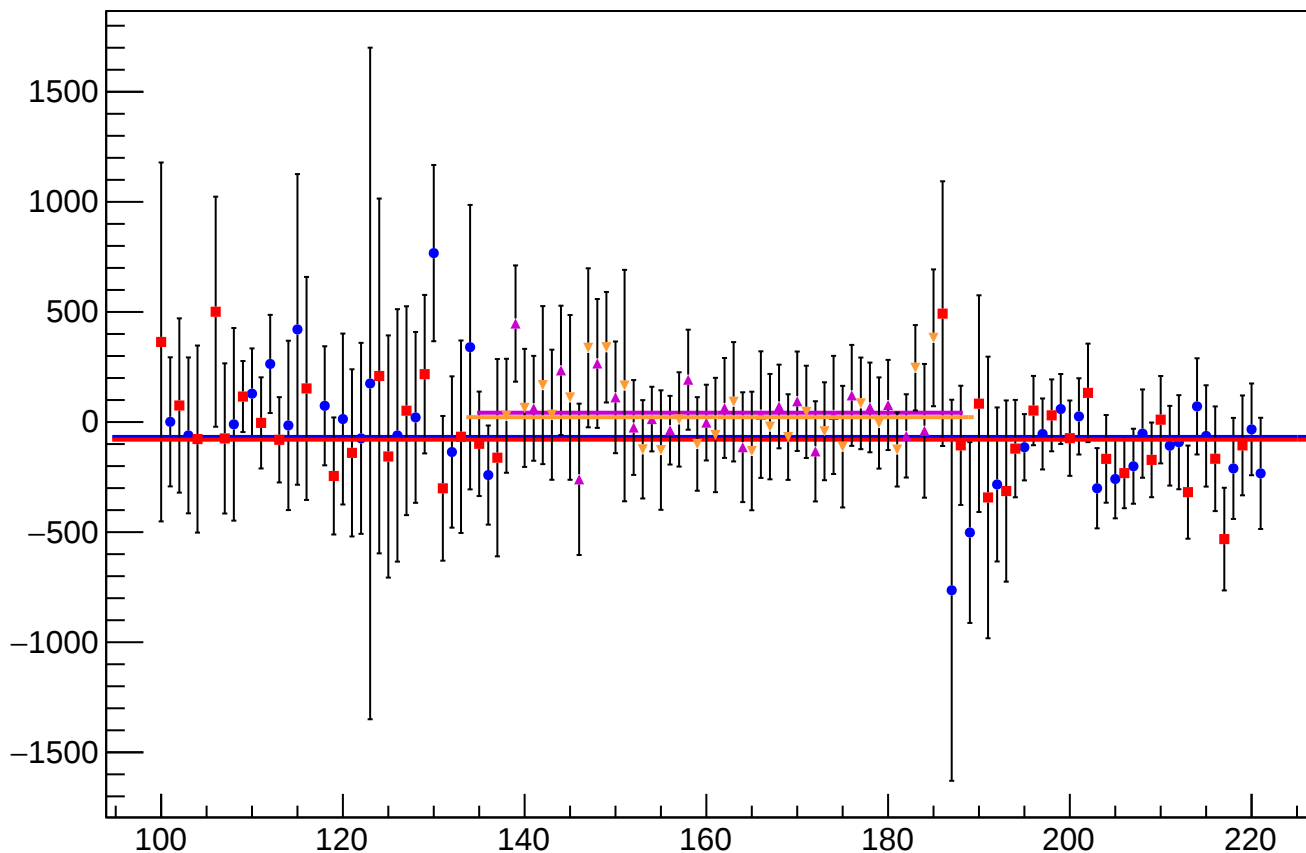
Right: 178.345 $\pm$ 0.021 χ^2 /NDF: 4890188.4/71

In: 182.009 $\pm$ 0.022 χ^2 /NDF:3684064.0/57

Out: 189.035 $\pm$ 0.023 χ^2 /NDF:4698863.7/61

All: 185.401 $\pm$ 0.016 χ^2 /NDF: 8432625.8/119

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -67.630 ± 41.111 χ^2/NDF : 17.4/34

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -80.114 ± 41.616 χ^2/NDF : 15.7/36

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

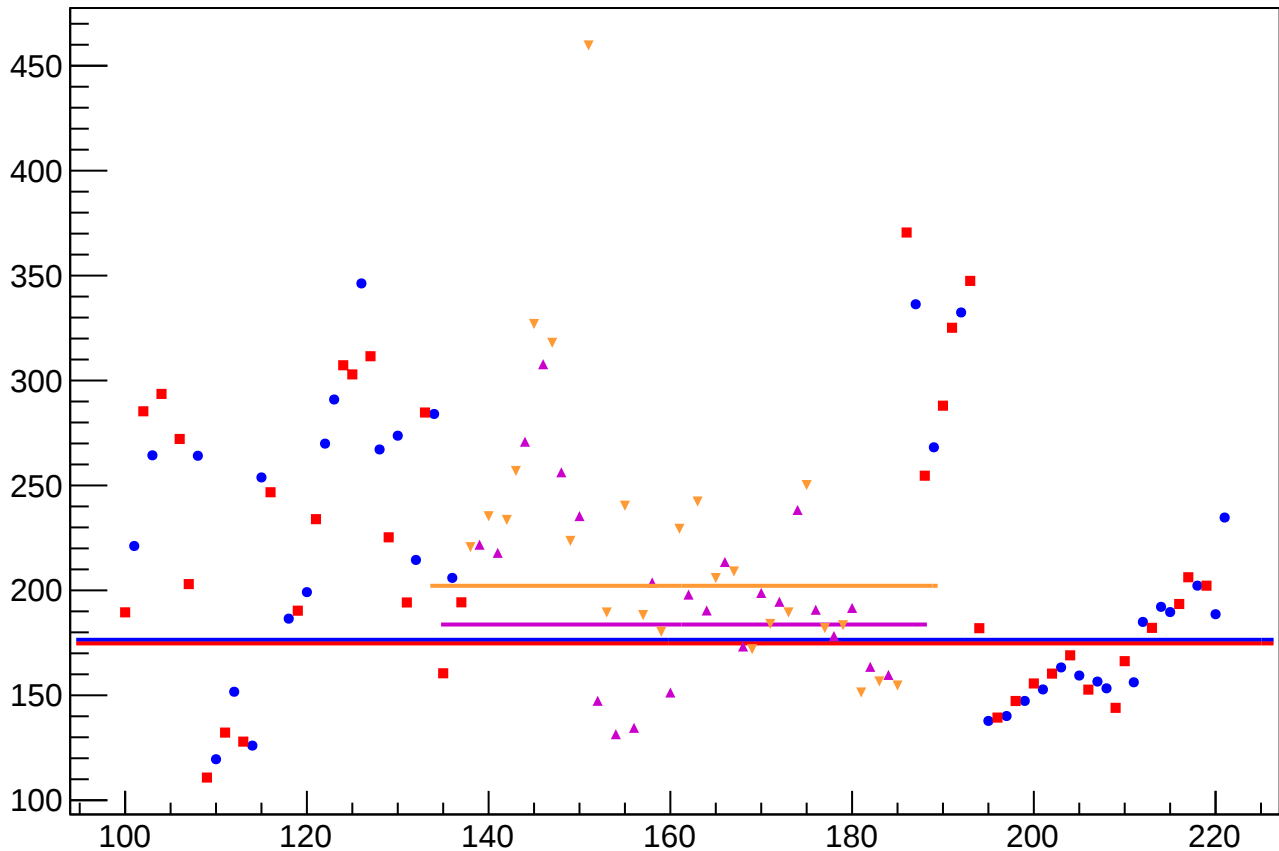
Right: -73.796 ± 29.247 χ^2/NDF : 33.1/71

In: -18.585 ± 30.612 χ^2/NDF : 27.3/57

Out: -36.977 ± 31.649 χ^2/NDF : 26.6/61

All: -27.475 ± 22.003 χ^2/NDF : 54.1/119

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.450 $\pm$ 0.029 χ^2 /NDF: 2287392.2/34

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 174.715 $\pm$ 0.029 χ^2 /NDF: 2859650.0/36

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

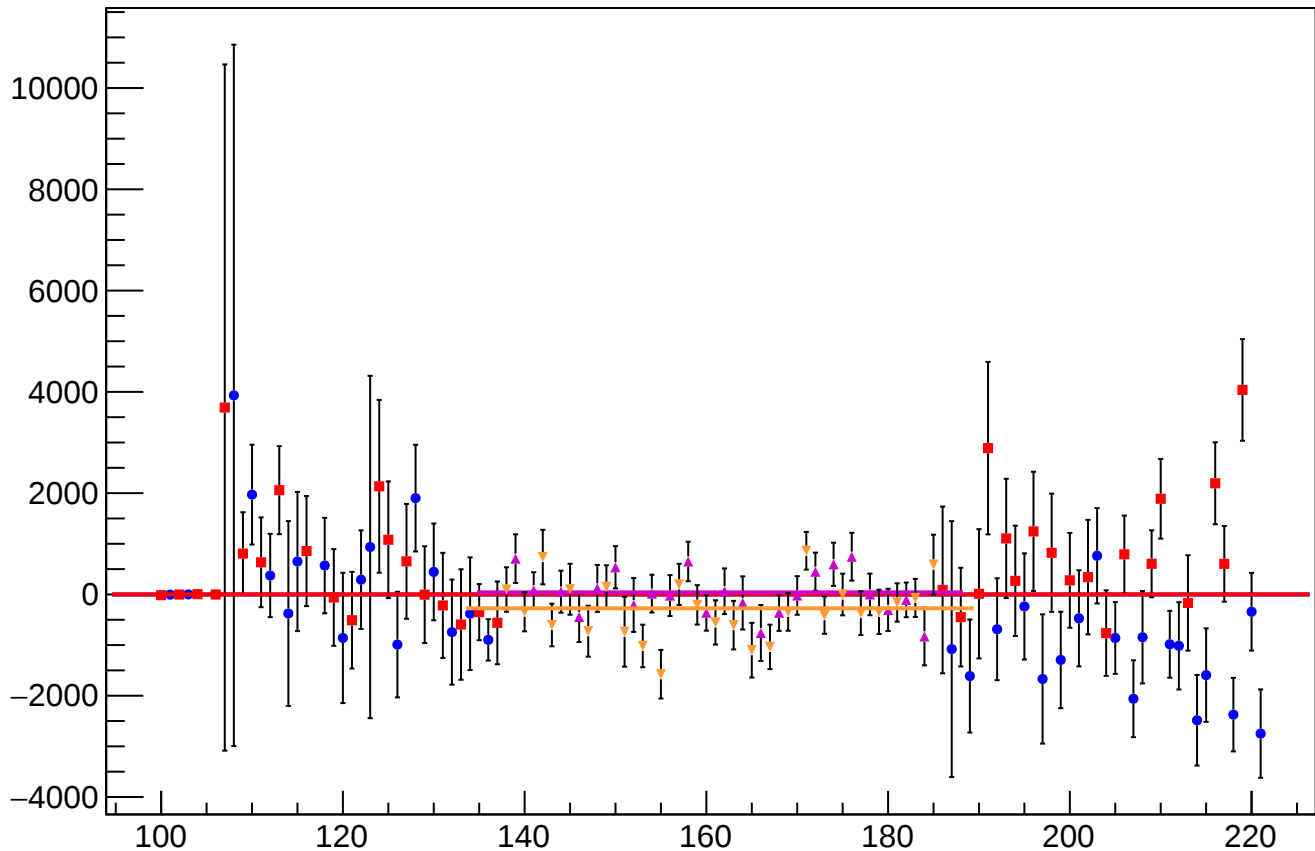
Right: 175.593 $\pm$ 0.021 χ^2 /NDF: 5148803.4/71

In: 179.695 $\pm$ 0.022 χ^2 /NDF:3811278.8/57

Out: 186.298 $\pm$ 0.022 χ^2 /NDF:4923705.7/61

All: 182.887 $\pm$ 0.016 χ^2 /NDF: 8779968.4/119

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.671 ± 2.251 χ^2/NDF : 68.8/34

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.805 ± 2.111 χ^2/NDF : 56.8/36

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

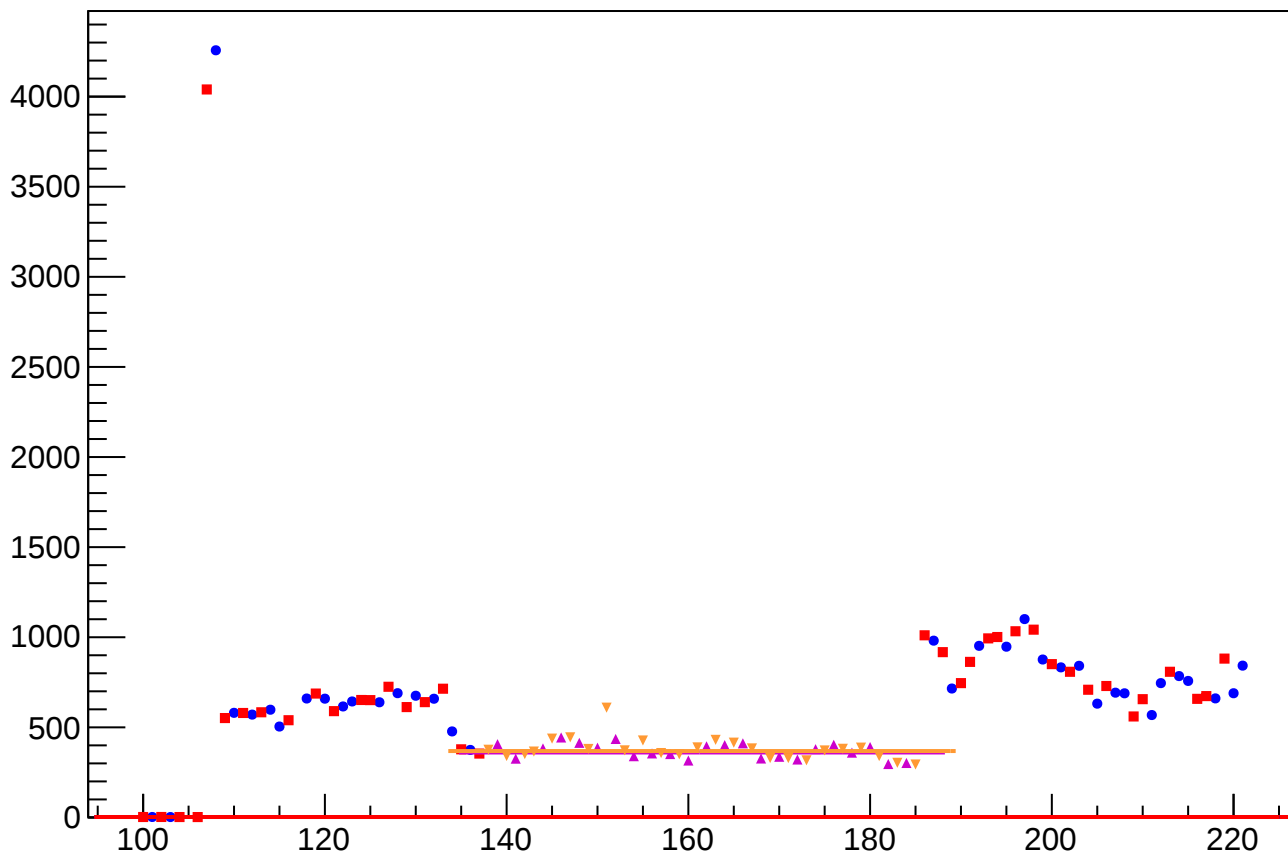
Right: -0.353 ± 1.540 χ^2/NDF : 126.2/71

In: -1.643 ± 2.251 χ^2/NDF : 89.2/57

Out: 0.643 ± 2.110 χ^2/NDF : 105.0/61

All: -0.426 ± 1.539 χ^2/NDF : 194.8/119

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.542 $\pm$ 0.002 χ^2 /NDF: 36750479.8/34

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.505 $\pm$ 0.001 χ^2 /NDF: 35613171.2/36

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF: 421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

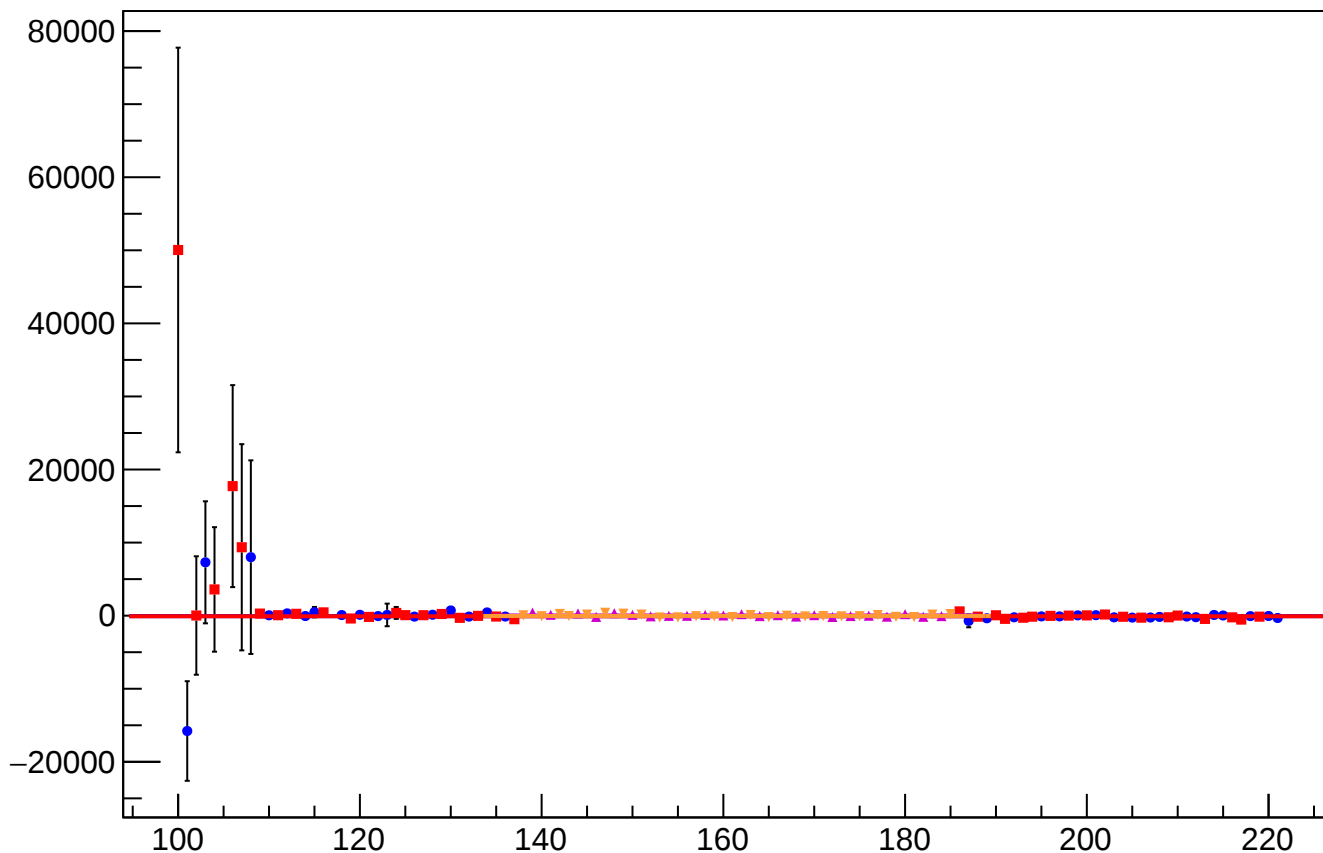
Right: 2.522 $\pm$ 0.001 χ^2 /NDF: 72363942.3/71

In: 2.779 $\pm$ 0.002 χ^2 /NDF: 70658380.6/57

Out: 2.721 $\pm$ 0.001 χ^2 /NDF: 71716887.2/61

All: 2.748 $\pm$ 0.001 χ^2 /NDF: 142375980.8/119

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -64.454+/-44.631 χ^2 /NDF: 22.4/34

Left Out: -39.036+/-49.576 χ^2 /NDF:9.1/24

Right Out: -81.697+/-45.836 χ^2 /NDF: 28.4/36

Left In: 28.062+/-48.032 χ^2 /NDF:9.6/22

Left: -4.426+/-34.497 χ^2 /NDF: 19.7/47

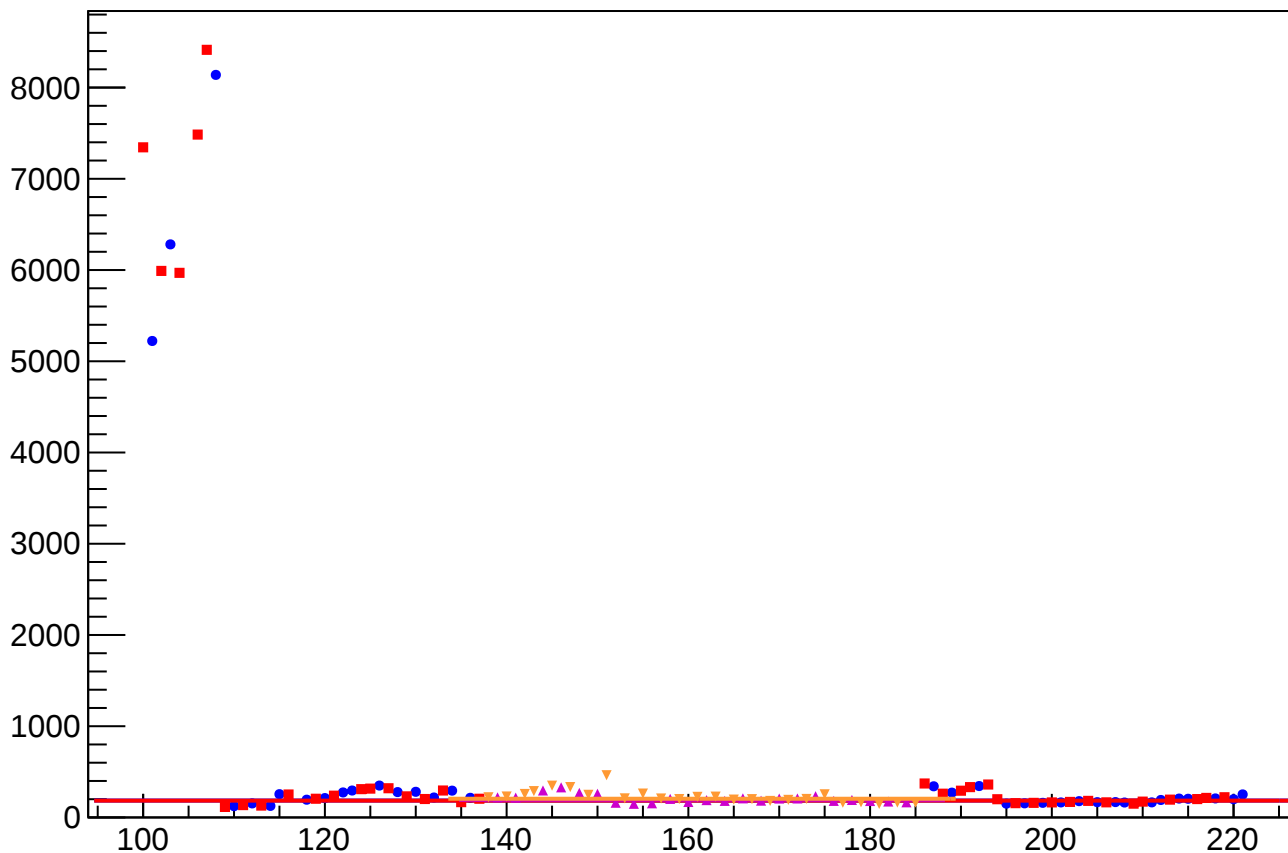
Right: -72.846+/-31.977 χ^2 /NDF: 50.9/71

In: -21.587+/-32.695 χ^2 /NDF:34.0/57

Out: -62.036+/-33.656 χ^2 /NDF:37.9/61

All: -41.226+/-23.451 χ^2 /NDF: 72.7/119

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 185.360+/-0.032 χ^2/NDF : 4742133.6/34

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 184.336+/-0.032 χ^2/NDF : 5519420.7/36

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

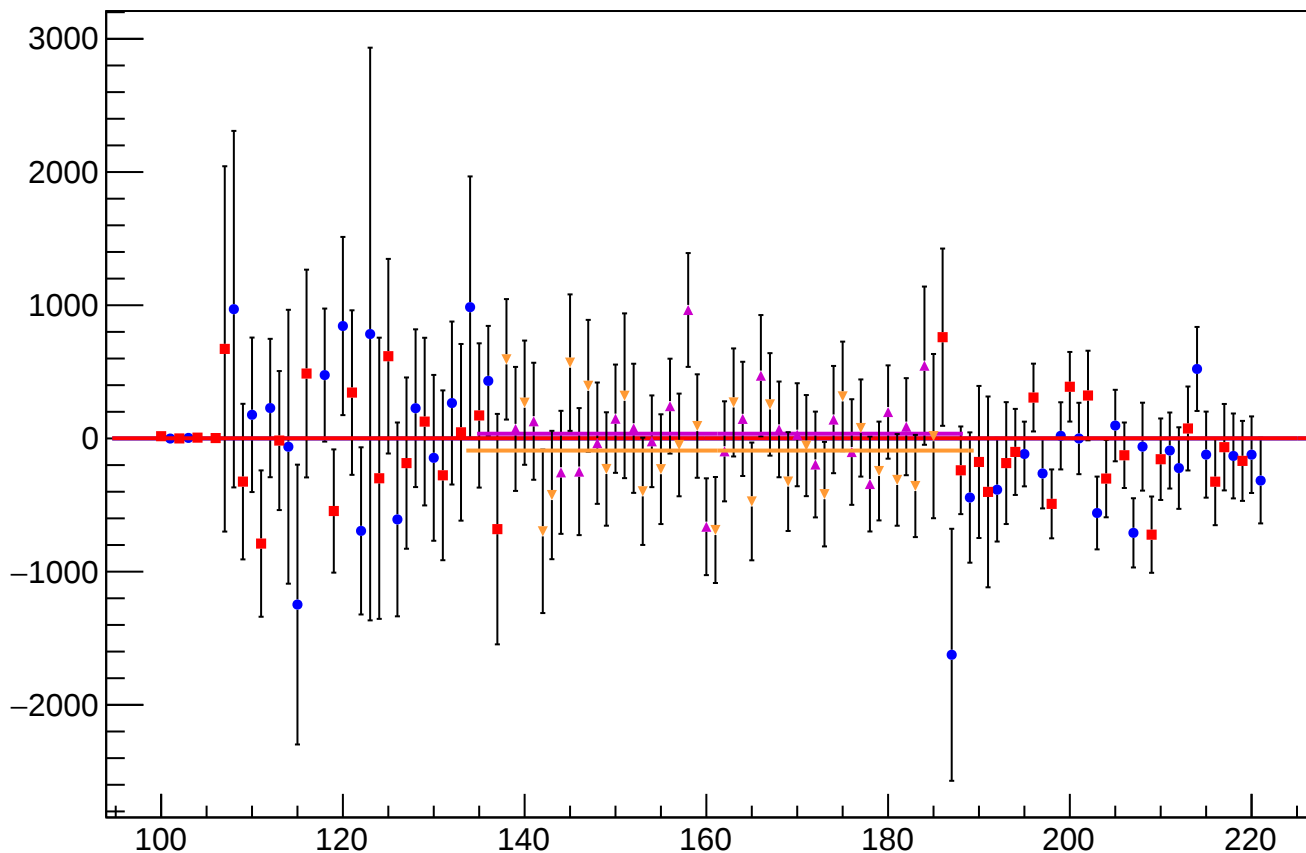
Right: 184.862+/-0.023 χ^2/NDF : 10262066.1/71

In: 189.185+/-0.023 χ^2/NDF :5953317.5/57

Out: 193.912+/-0.024 χ^2/NDF :7666298.2/61

All: 191.480+/-0.017 χ^2/NDF : 13639910.3/13

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.244 ± 1.736 χ^2/NDF : 32.7/34

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.273 ± 1.622 χ^2/NDF : 29.4/36

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

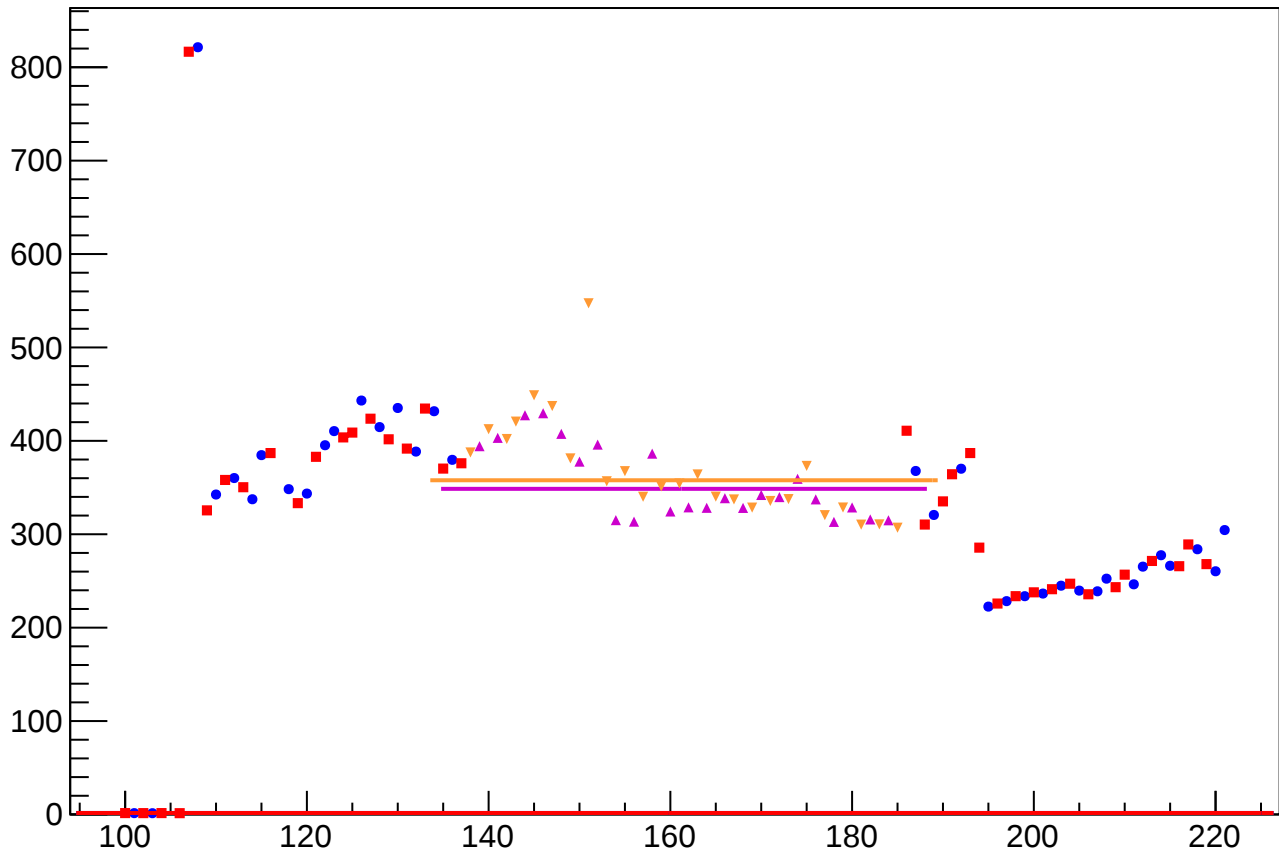
Right: 0.566 ± 1.185 χ^2/NDF : 62.5/71

In: -0.228 ± 1.736 χ^2/NDF : 46.3/57

Out: 1.239 ± 1.622 χ^2/NDF : 47.0/61

All: 0.555 ± 1.185 χ^2/NDF : 93.7/119

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.604 $\pm$ 0.001 χ^2 /NDF: 36887306.5/34

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF:547036.5/24

Right Out: 1.572 $\pm$ 0.001 χ^2 /NDF: 35314859.7/36

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

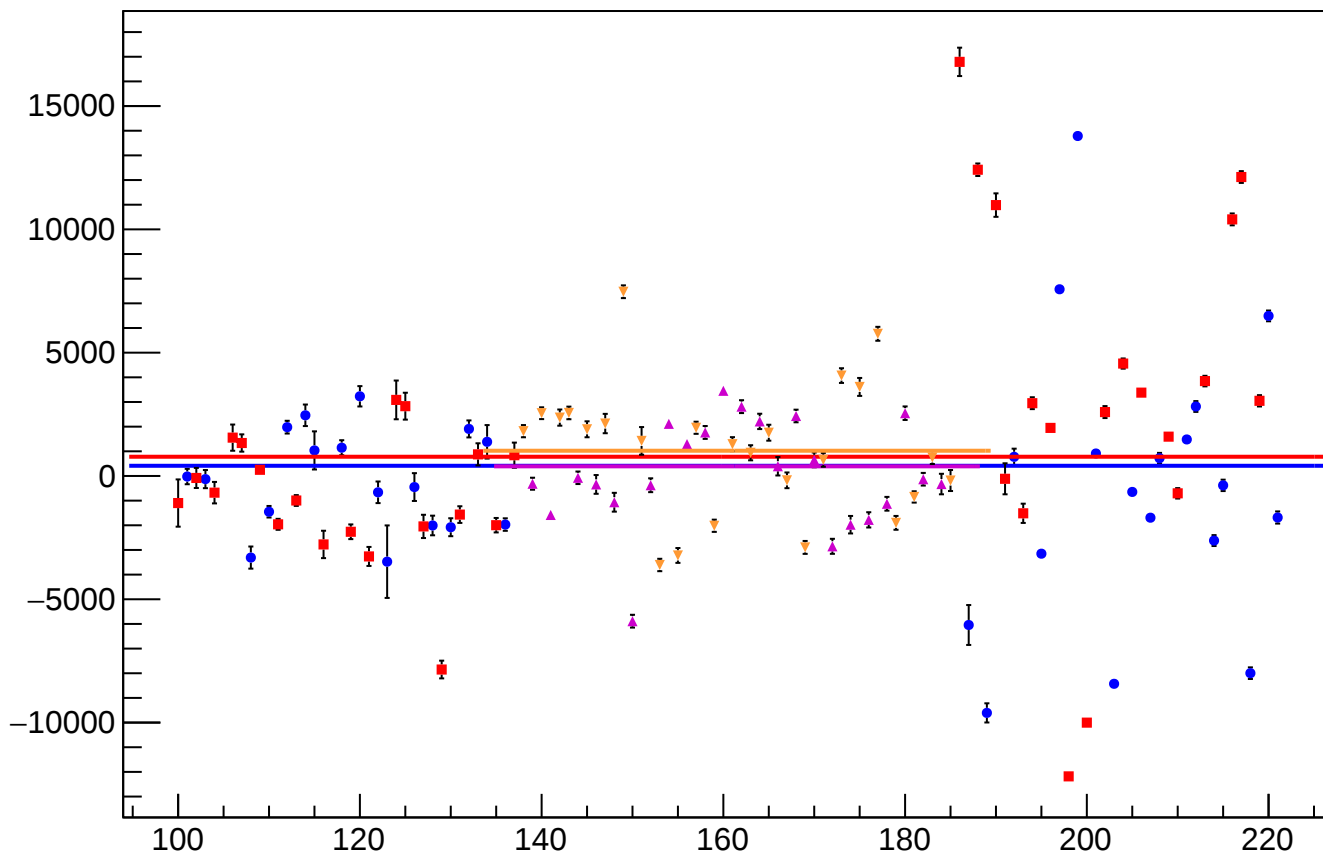
Right: 1.587 $\pm$ 0.001 χ^2 /NDF: 72202539.4/71

In: 1.751 $\pm$ 0.001 χ^2 /NDF:71057769.1/57

Out: 1.704 $\pm$ 0.001 χ^2 /NDF:71751164.5/61

All: 1.726 $\pm$ 0.001 χ^2 /NDF: 142809707.2/119

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 413.187+/-44.070 χ^2/NDF : 13485.5/34

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 779.863+/-44.565 χ^2/NDF : 18002.1/36

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

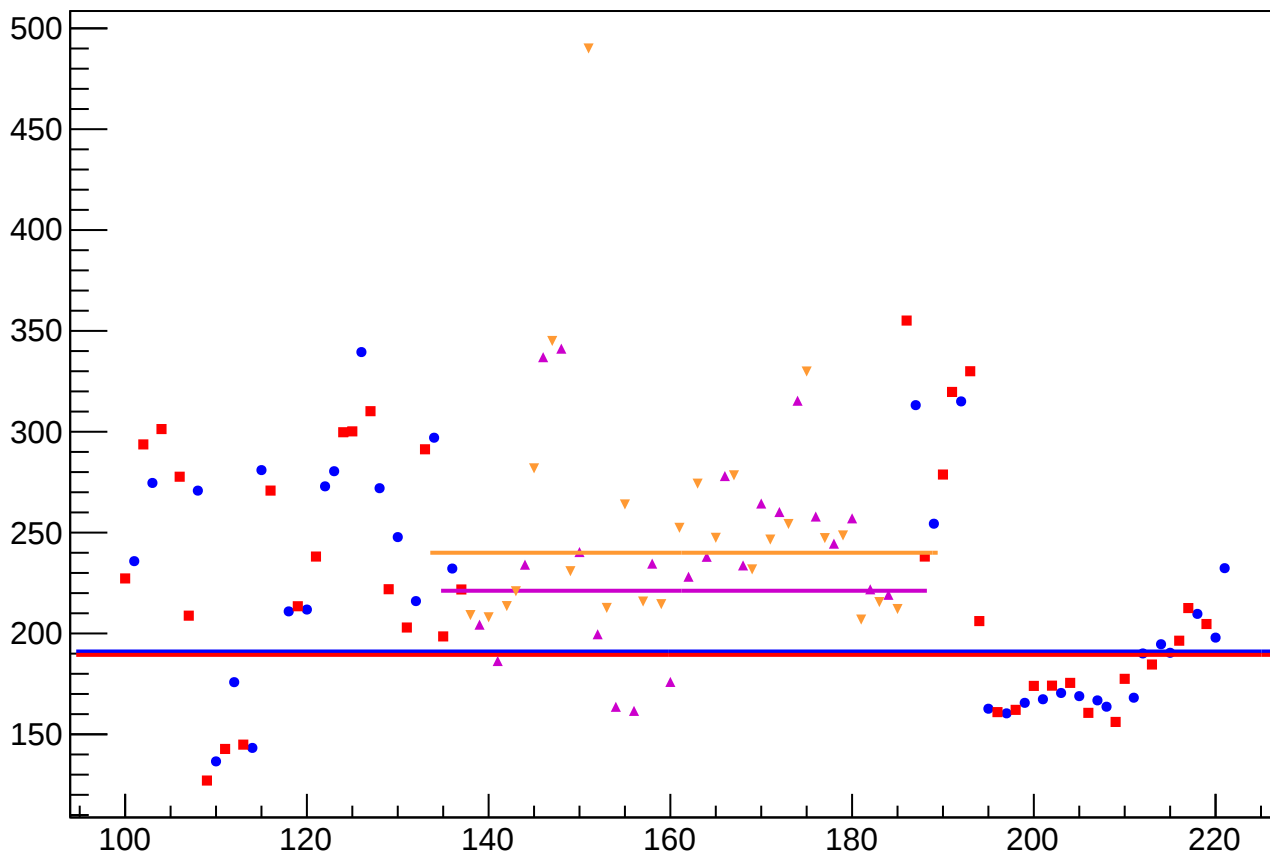
Right: 594.478+/-31.336 χ^2/NDF : 31521.9/71

In: 404.200+/-34.375 χ^2/NDF : 15070.6/57

Out: 871.593+/-35.187 χ^2/NDF : 20322.7/61

All: 632.441+/-24.589 χ^2/NDF : 35483.5/119

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 191.058 ± 0.031 $\chi^2/\text{NDF}: 1620902.9/34$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 189.394 ± 0.032 $\chi^2/\text{NDF}: 2154206.9/36$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

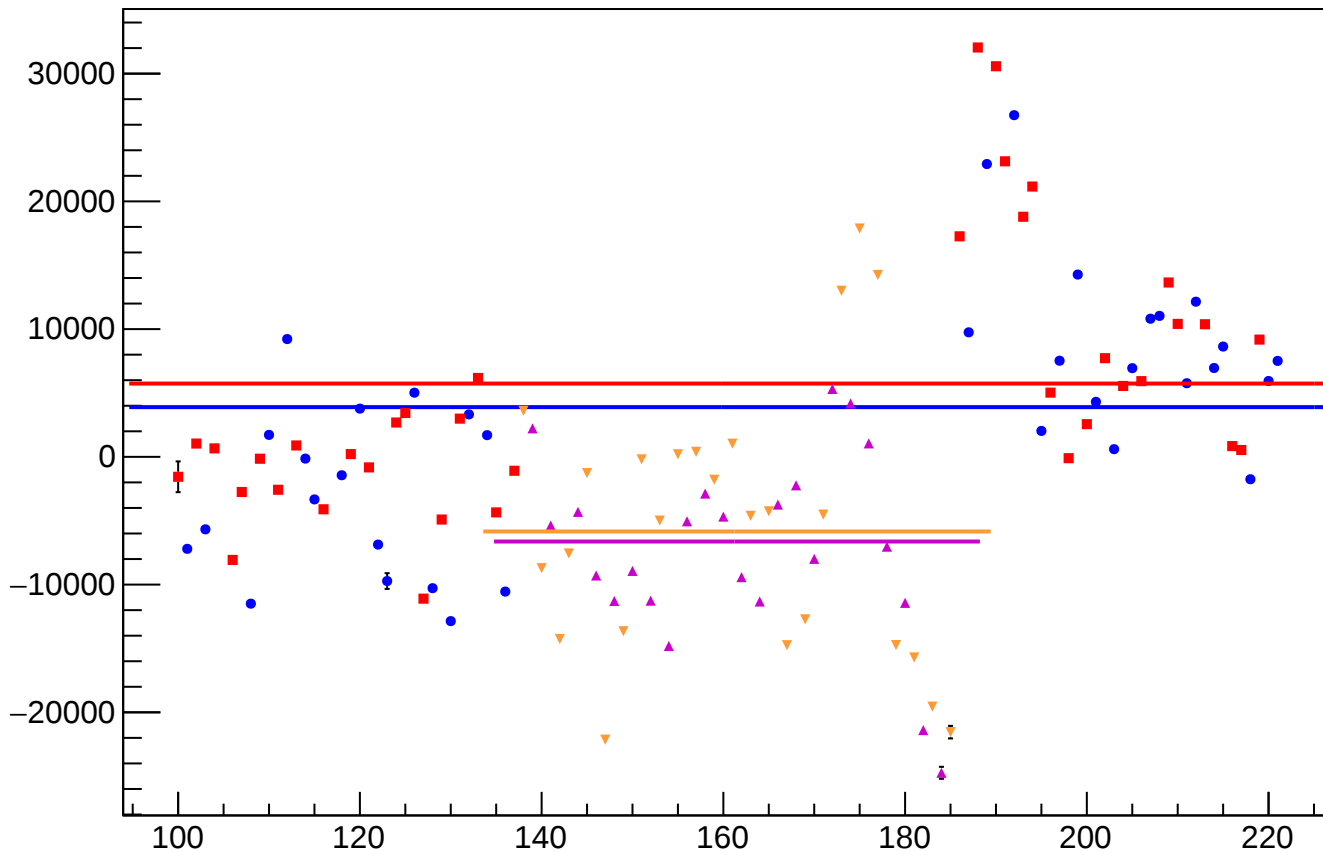
Right: 190.236 ± 0.022 $\chi^2/\text{NDF}: 3776520.0/71$

In: 202.851 ± 0.024 $\chi^2/\text{NDF}: 3329122.5/57$

Out: 208.459 ± 0.025 $\chi^2/\text{NDF}: 4128585.8/61$

All: 205.590 ± 0.017 $\chi^2/\text{NDF}: 7483703.4/119$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3893.028+/-32.471 χ^2/NDF : 85526.5/34

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 5736.831+/-31.744 χ^2/NDF : 105940.0/36

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

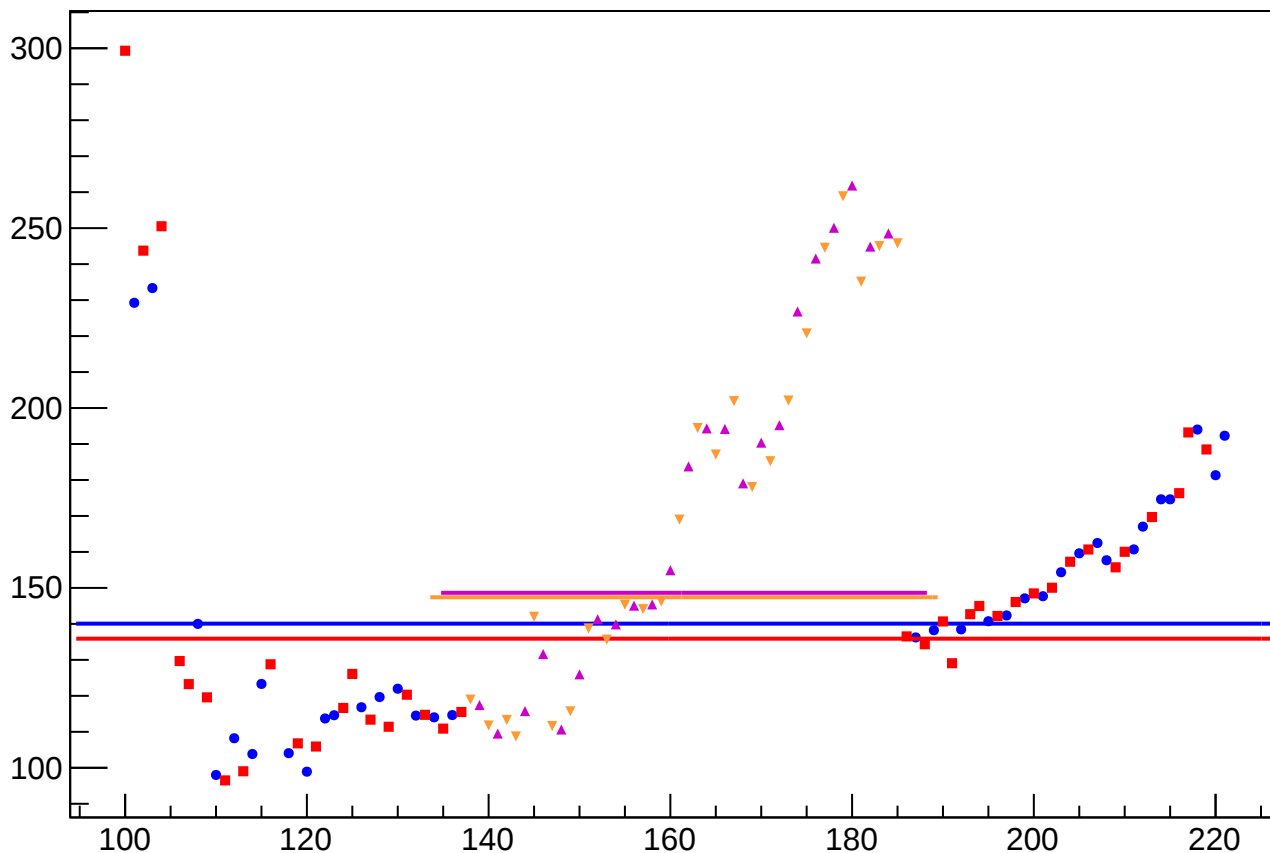
Right: 4835.791+/-22.699 χ^2/NDF : 193115.2/71

In: -662.348+/-24.451 χ^2/NDF : 152722.1/57

Out: 647.910+/-23.766 χ^2/NDF : 227808.5/61

All: 11.411+/-17.042 χ^2/NDF : 382007.2/119

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 140.067 $\pm$ 0.023 χ^2 /NDF: 1653737.6/34

Left Out: 147.396 $\pm$ 0.025 χ^2 /NDF: 2517097.1/24

Right Out: 135.892 $\pm$ 0.022 χ^2 /NDF: 1584370.2/36

Left In: 148.642 $\pm$ 0.026 χ^2 /NDF: 2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2 /NDF: 4933793.6/47

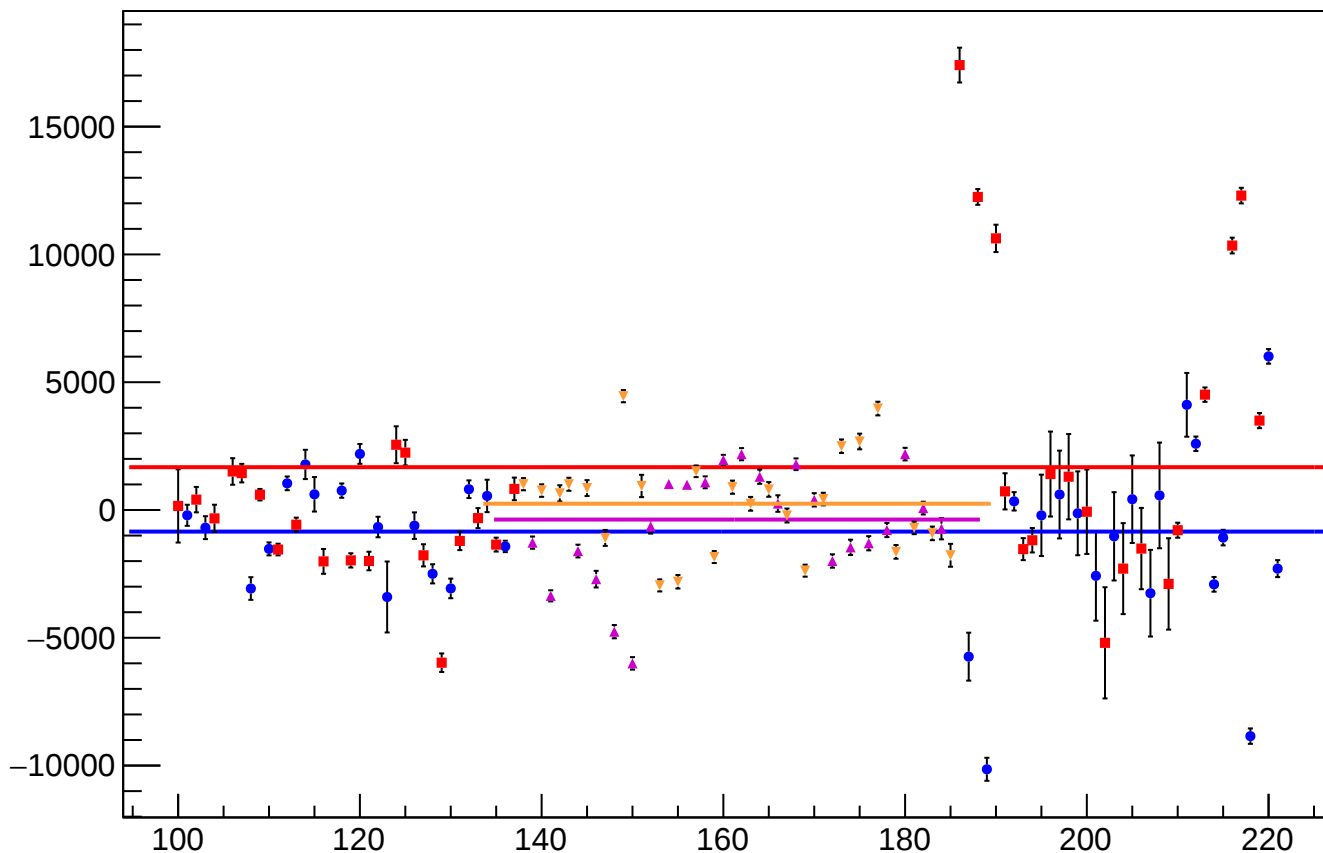
Right: 137.932 $\pm$ 0.016 χ^2 /NDF: 3255013.7/71

In: 143.780 $\pm$ 0.017 χ^2 /NDF: 4129657.1/57

Out: 140.948 $\pm$ 0.017 χ^2 /NDF: 4216910.8/61

All: 142.324 $\pm$ 0.012 χ^2 /NDF: 8360358.4/119

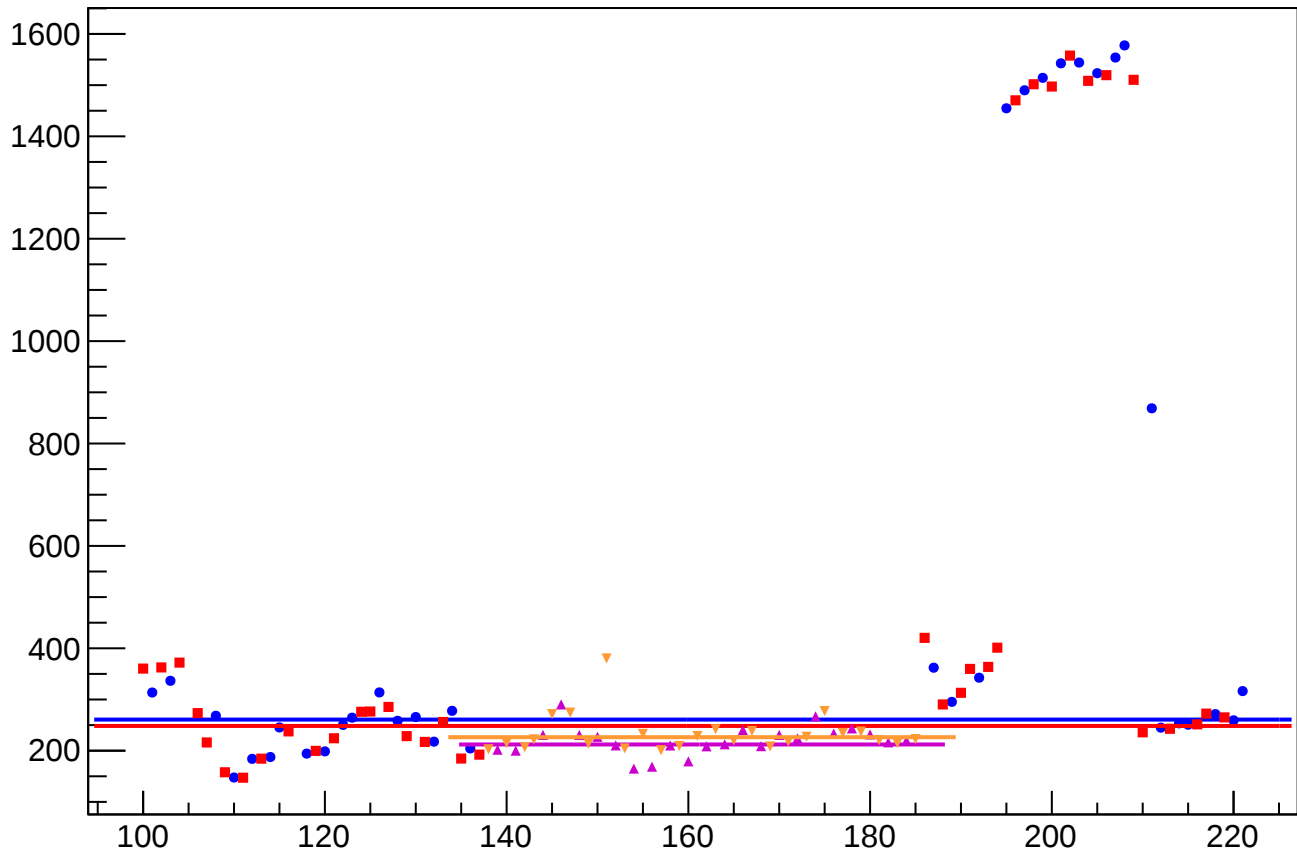
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -845.429 ± 69.050 $\chi^2/\text{NDF}: 2272.7/34$
 Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$
 Right Out: 1675.248 ± 65.274 $\chi^2/\text{NDF}: 5691.7/36$
 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: 485.707 ± 47.434 $\chi^2/\text{NDF}: 8668.2/71$
 In: -544.452 ± 41.484 $\chi^2/\text{NDF}: 4100.7/57$
 Out: 820.288 ± 41.374 $\chi^2/\text{NDF}: 7333.3/61$
 All: 139.728 ± 29.294 $\chi^2/\text{NDF}: 11976.7/119$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 260.777 $\pm$ 0.049 χ^2 /NDF: 10260880.5/34

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 248.315 $\pm$ 0.046 χ^2 /NDF: 9293963.3/36

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

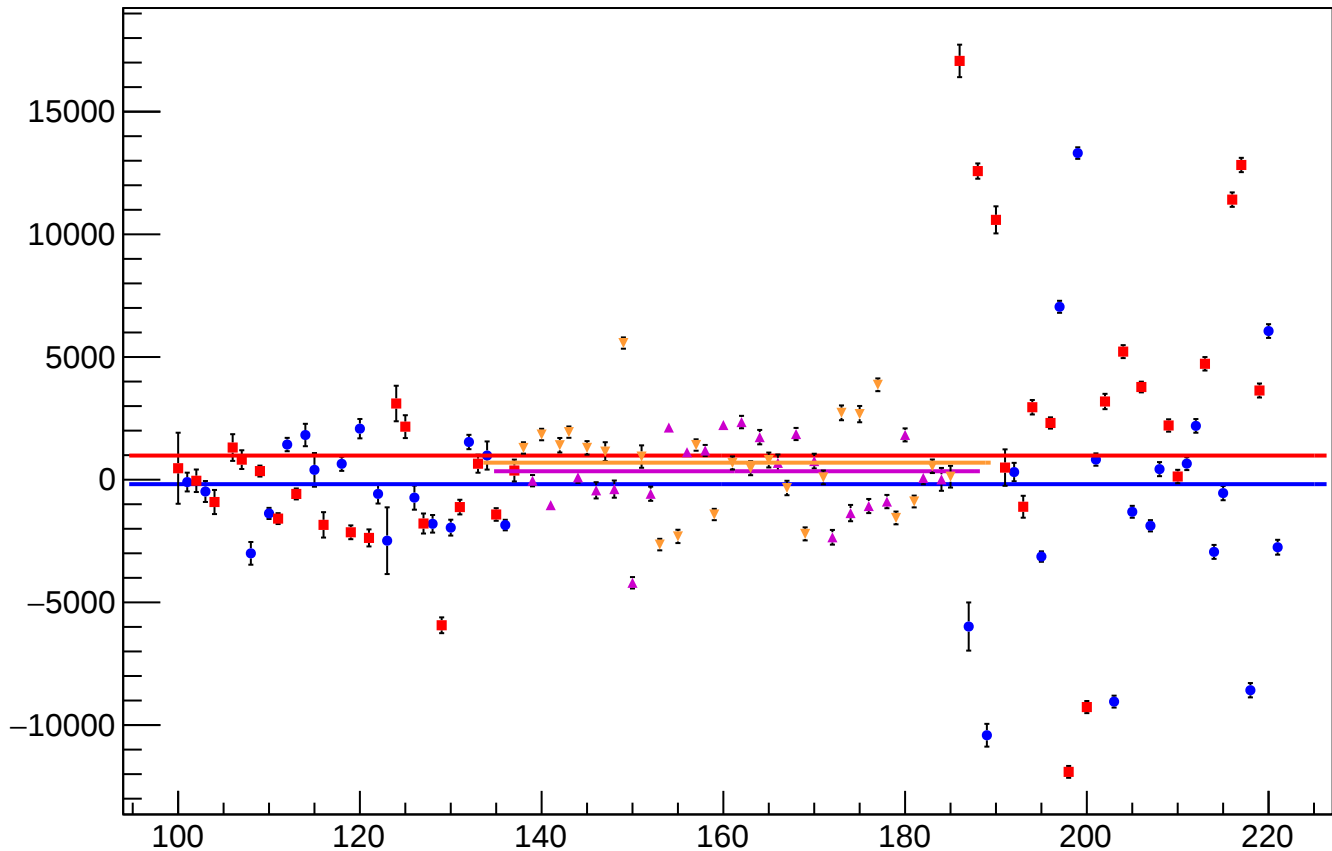
Right: 254.196 $\pm$ 0.034 χ^2 /NDF: 19589241.1/71

In: 229.698 $\pm$ 0.029 χ^2 /NDF: 11486579.0/57

Out: 235.190 $\pm$ 0.029 χ^2 /NDF: 9950907.1/61

All: 232.451 $\pm$ 0.021 χ^2 /NDF: 21455062.2/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -181.909 ± 51.490 $\chi^2/\text{NDF}: 8184.5/34$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 983.783 ± 51.584 $\chi^2/\text{NDF}: 11747.3/36$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

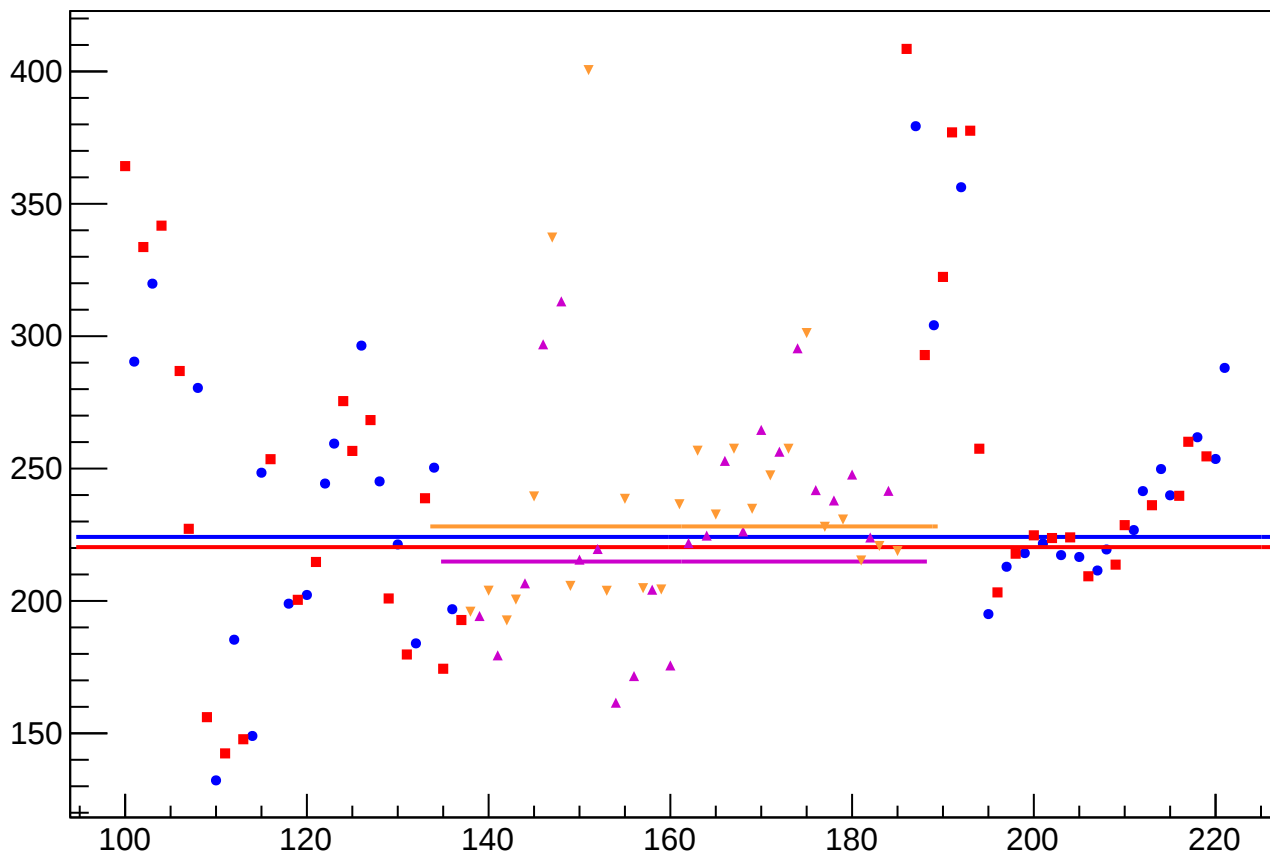
Right: 399.881 ± 36.442 $\chi^2/\text{NDF}: 20187.6/71$

In: 73.958 ± 36.916 $\chi^2/\text{NDF}: 9220.4/57$

Out: 846.332 ± 37.381 $\chi^2/\text{NDF}: 13184.3/61$

All: 455.308 ± 26.266 $\chi^2/\text{NDF}: 22620.8/119$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 224.179 $\pm$ 0.036 χ^2/NDF : 1354592.2/34

Left Out: 228.144 $\pm$ 0.038 χ^2/NDF : 828399.3/24

Right Out: 220.331 $\pm$ 0.036 χ^2/NDF : 1918018.7/36

Left In: 214.878 $\pm$ 0.037 χ^2/NDF : 1037509.6/22

Left: 221.351 $\pm$ 0.027 χ^2/NDF : 1927151.4/47

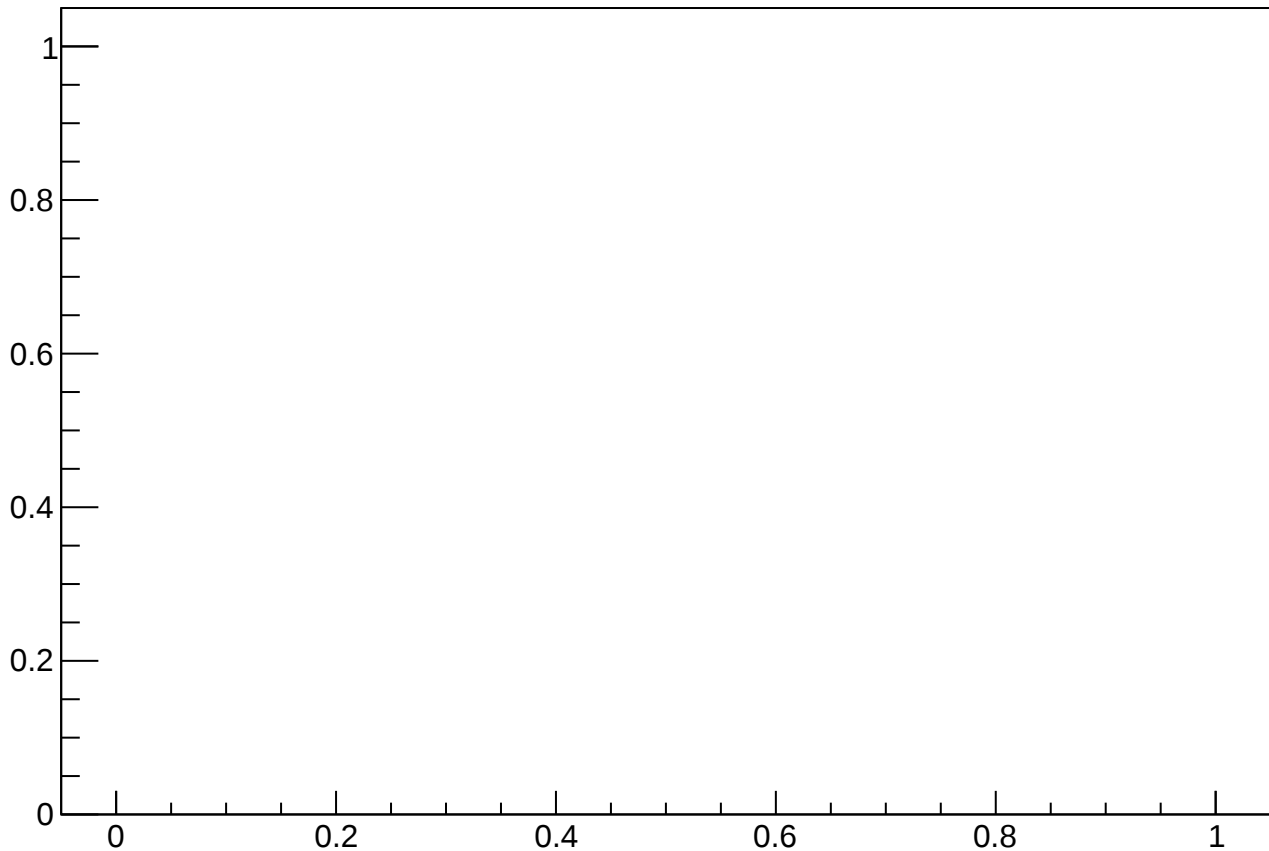
Right: 222.258 $\pm$ 0.026 χ^2/NDF : 3278186.3/71

In: 219.659 $\pm$ 0.026 χ^2/NDF : 2423815.7/57

Out: 224.041 $\pm$ 0.026 χ^2/NDF : 2768204.7/61

All: 221.822 $\pm$ 0.019 χ^2/NDF : 5205933.4/119

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

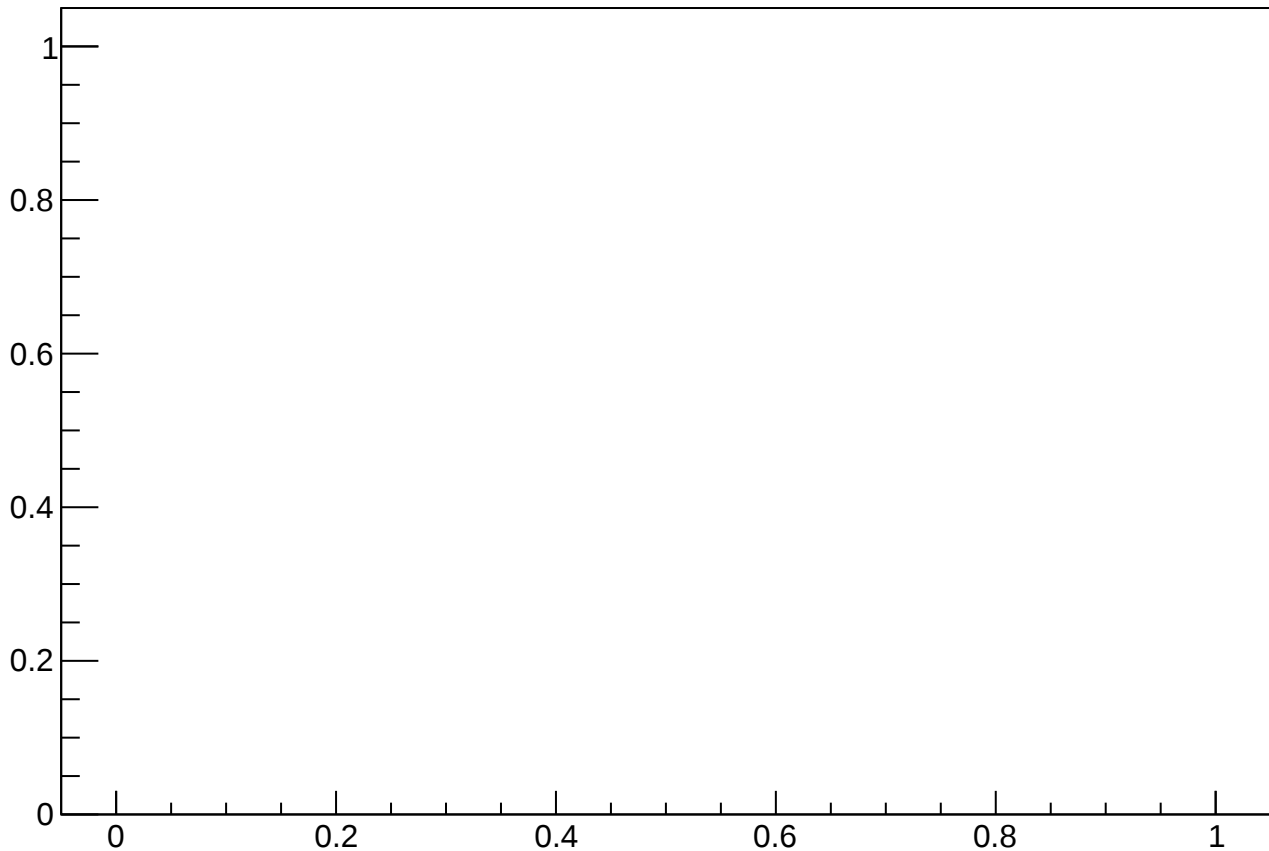
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

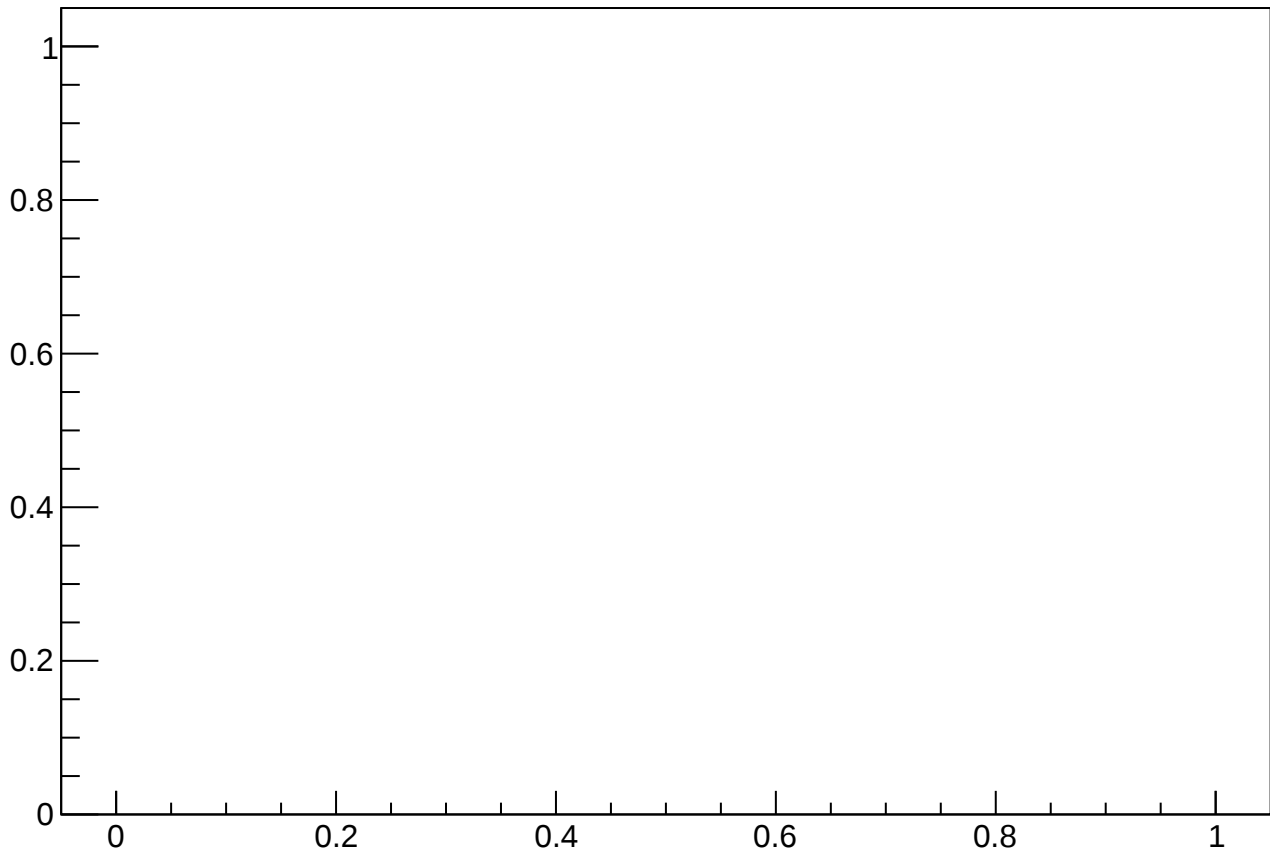
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

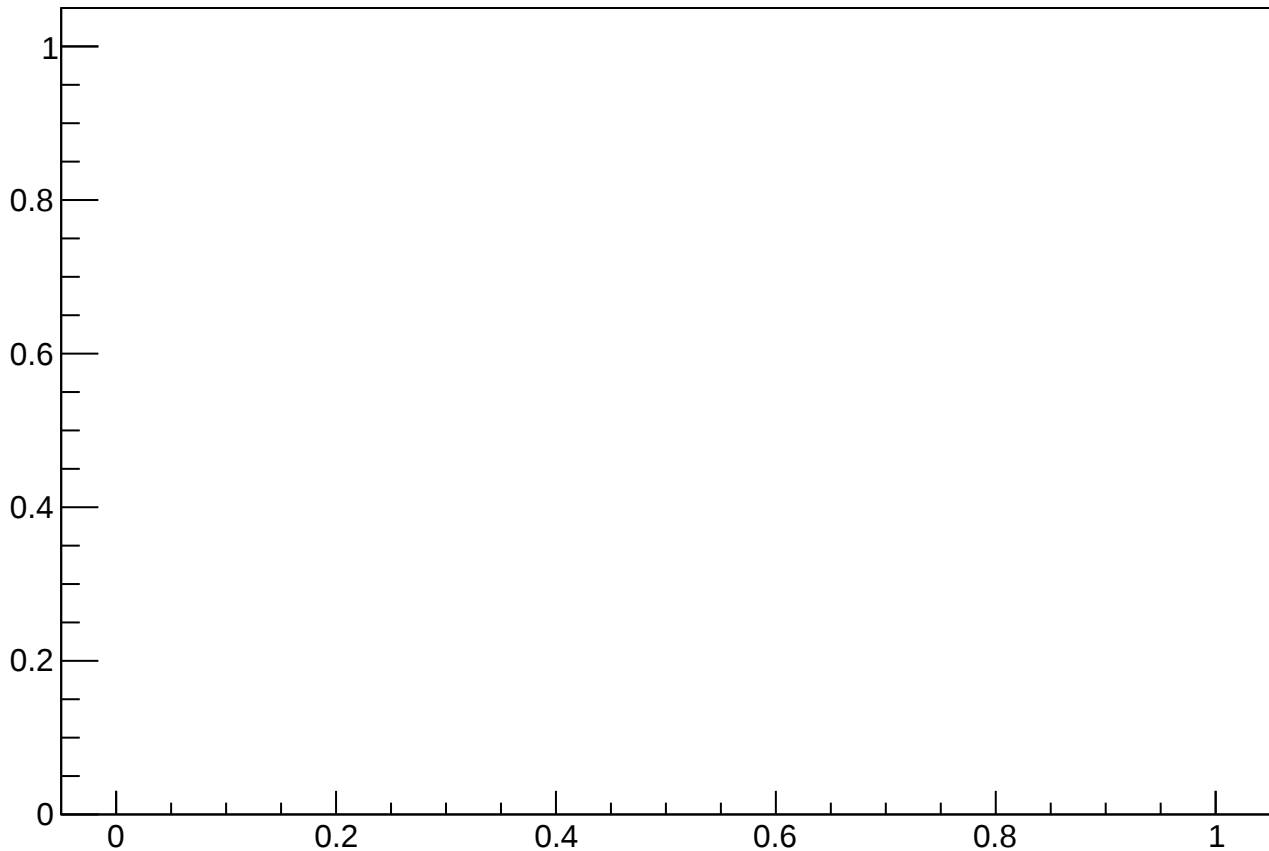
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

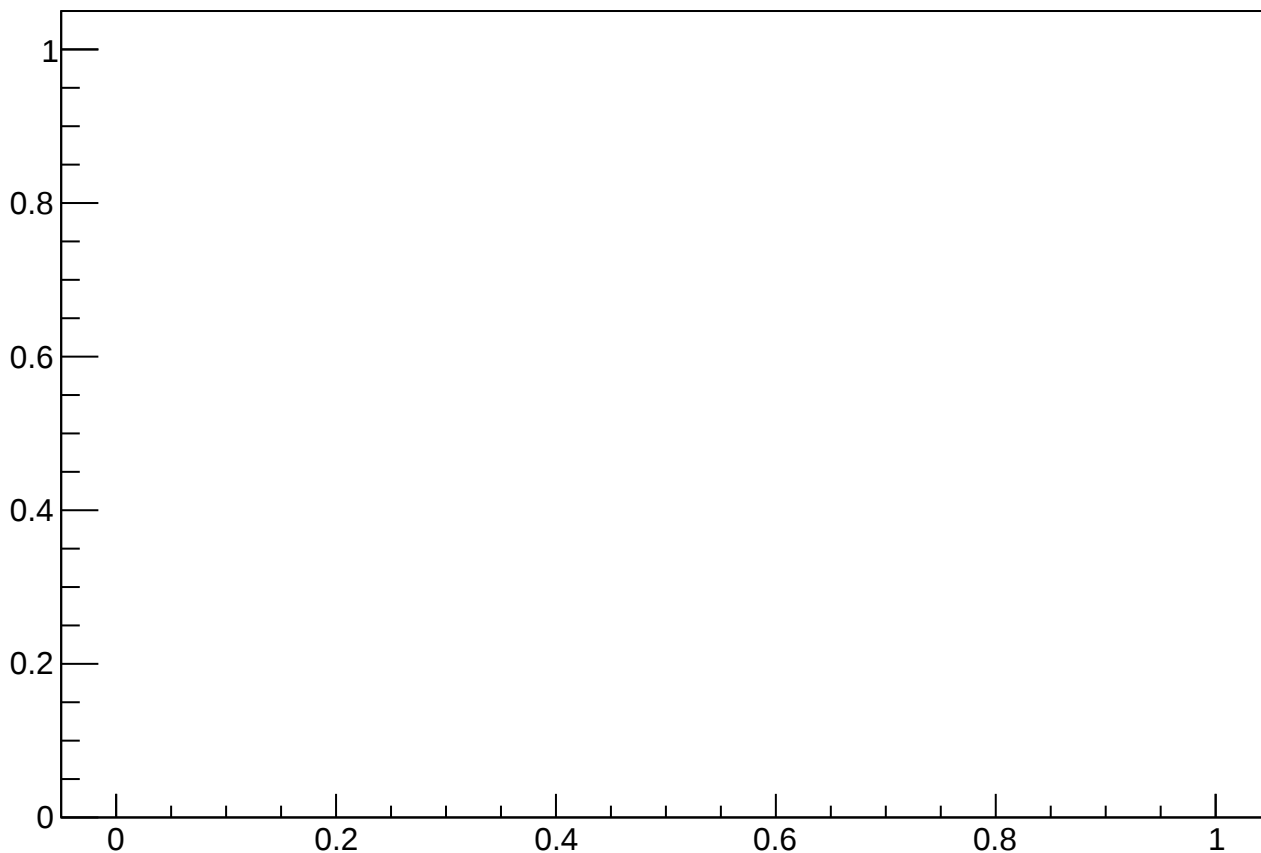
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

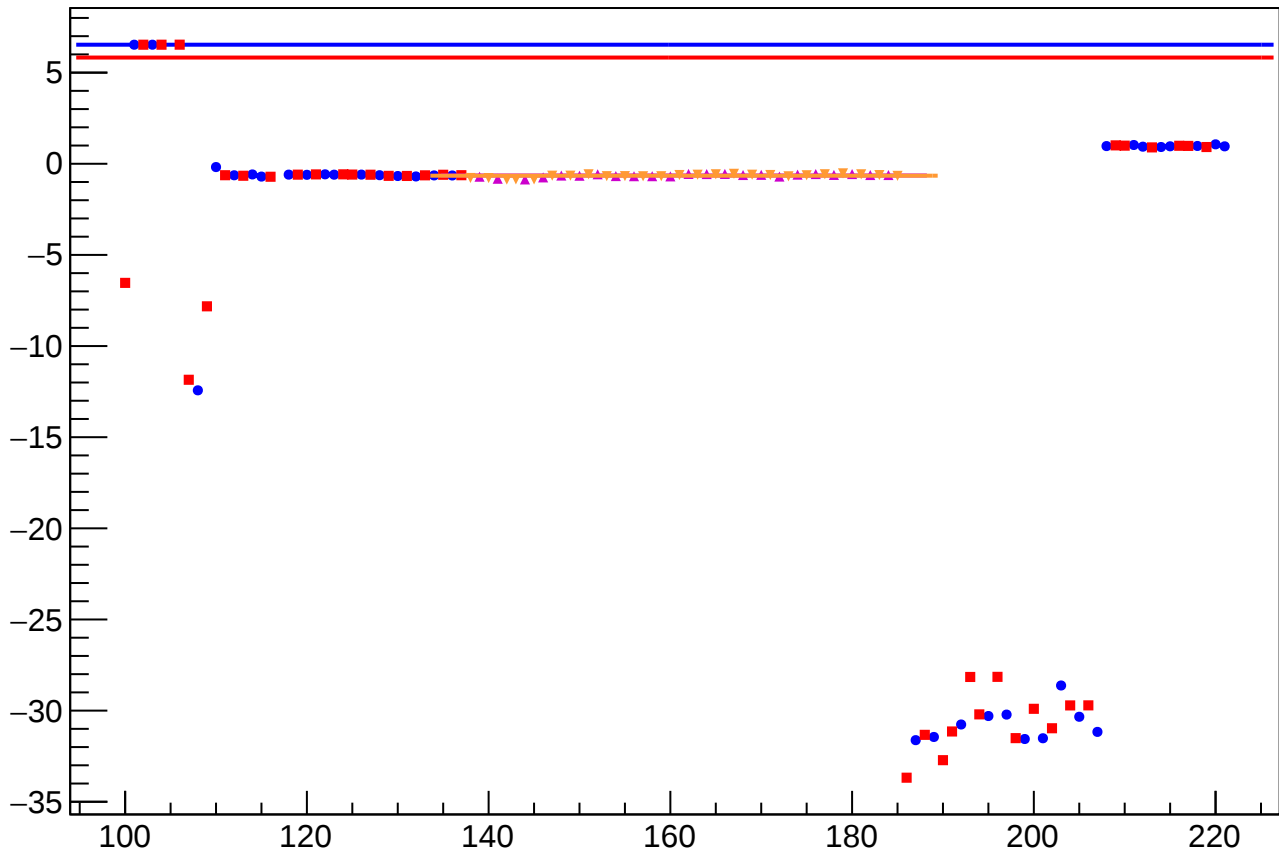
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 143061384248.5/34

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755970602025205.9/36

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

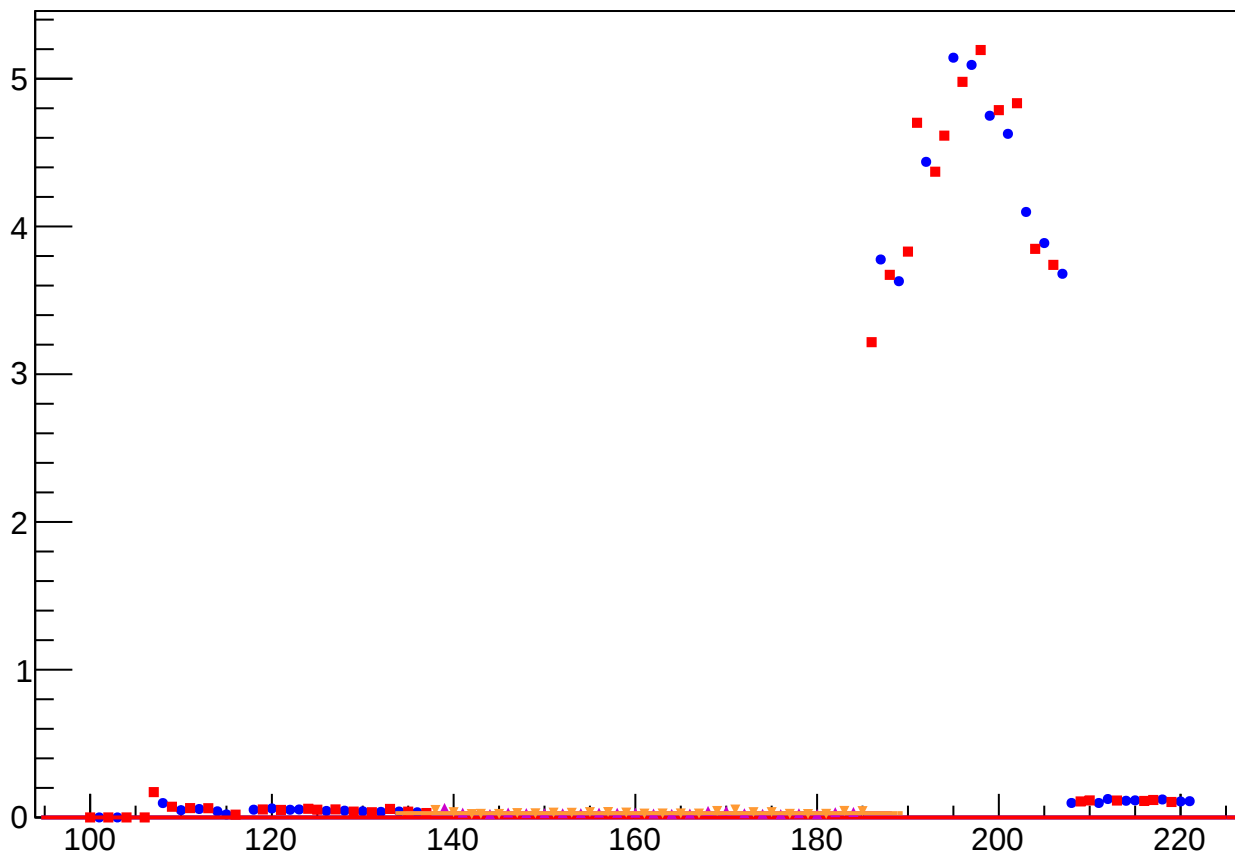
Right: 6.155+/-0.000 χ^2/NDF : 776116798179549.9/50

In: 6.530+/-0.000 χ^2/NDF : 977171653287.8/57

Out: 5.826+/-0.000 χ^2/NDF : 756681614677402.2/60

All: 6.153+/-0.000 χ^2/NDF : 77765021810002.2/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34610647.8/34

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33485831.2/36

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

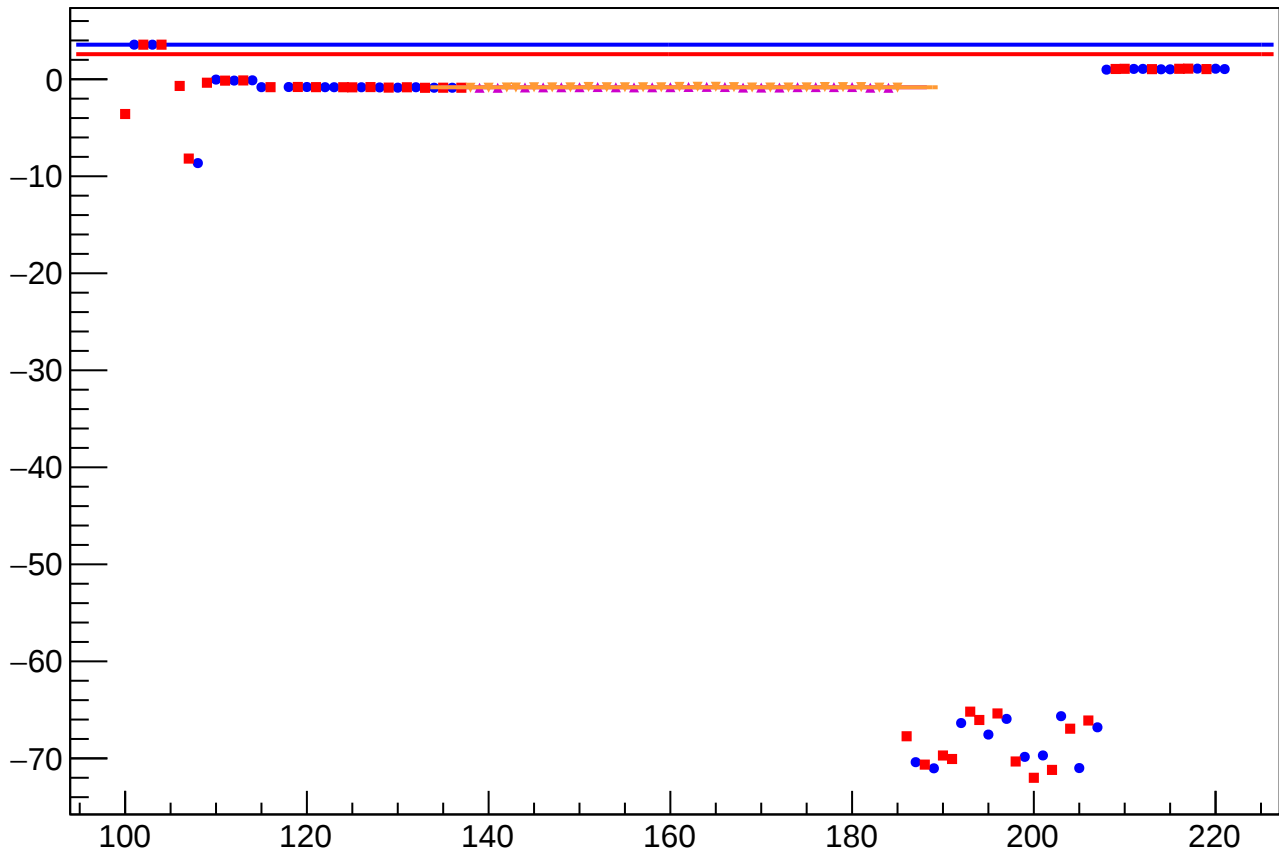
Right: 0.000+/-0.000 χ^2/NDF : 68096808.4/71

In: 0.000+/-0.000 χ^2/NDF :62787109.6/57

Out: 0.000+/-0.000 χ^2/NDF :63452987.5/61

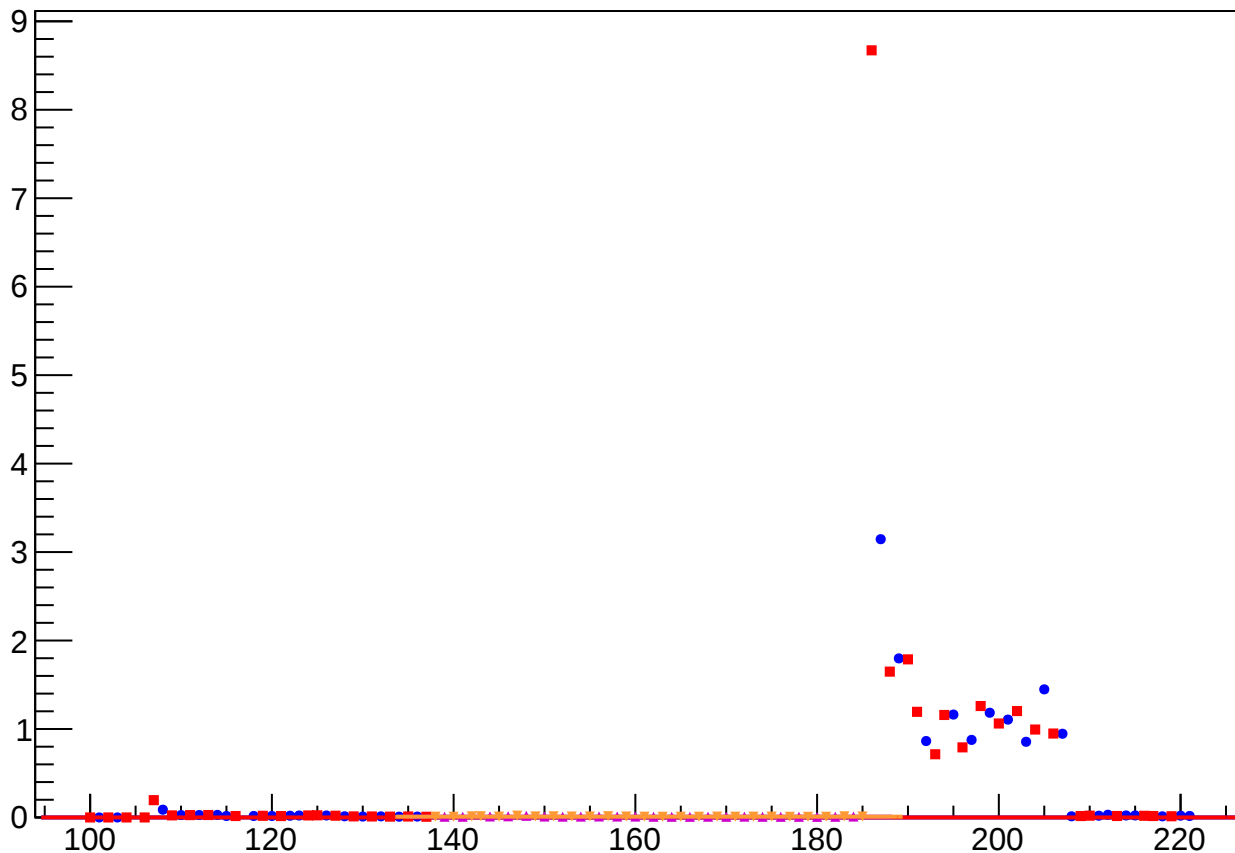
All: 0.000+/-0.000 χ^2/NDF : 126240628.0/119

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 610705287231.5/34	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382432539769620.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253565465949878.0/36	In: 3.560+/-0.000	χ^2/NDF : 4290987283415.5/57
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255796261406068.2
		All: 3.037+/-0.000	χ^2/NDF : 13881567534214

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31442269.3/34

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31074840.5/36

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

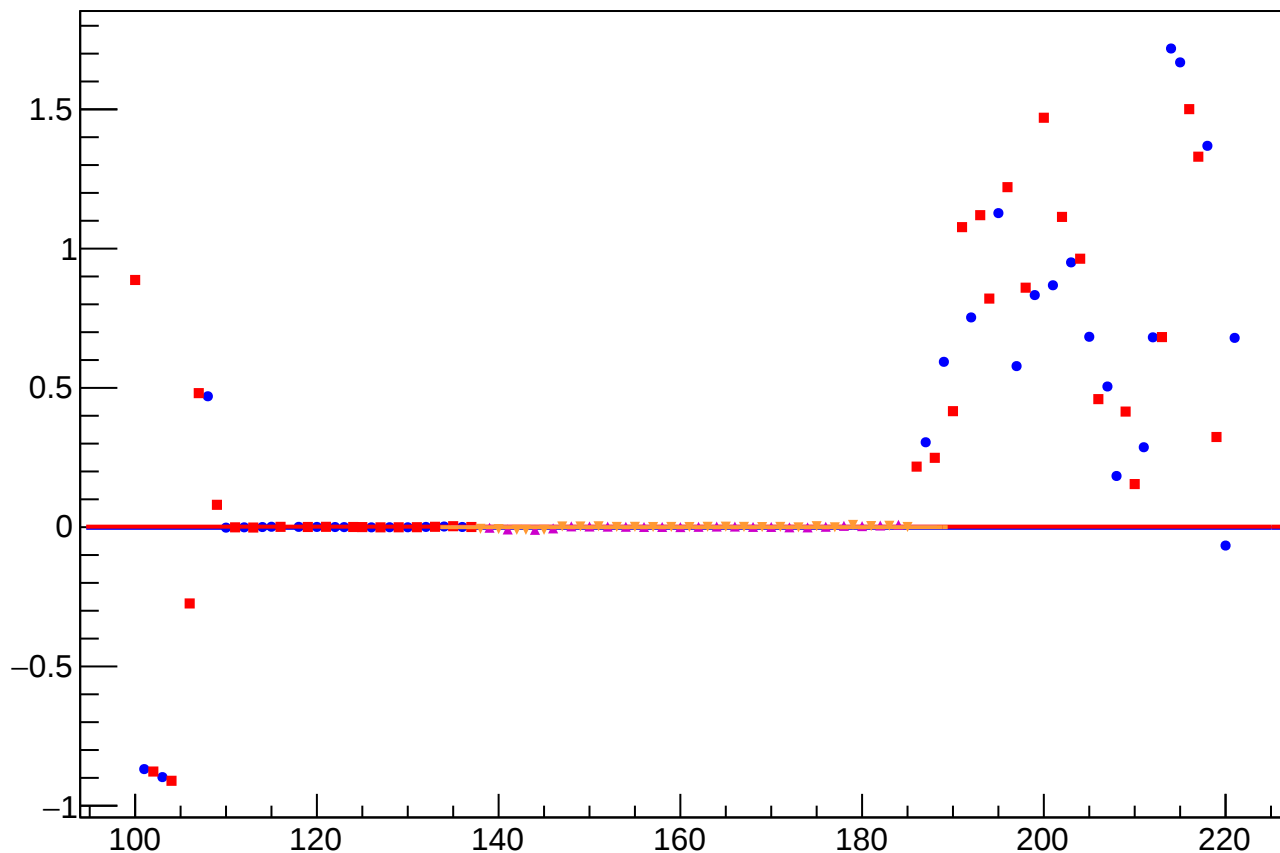
Right: 0.000+/-0.000 χ^2/NDF : 62517549.1/71

In: 0.000+/-0.000 χ^2/NDF :61231937.2/57

Out: 0.000+/-0.000 χ^2/NDF :62587151.4/61

All: 0.000+/-0.000 χ^2/NDF : 123820132.3/119

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797510653.3/34

Left: 0.000 ± 0.000 χ^2/NDF : 254489625.0/47

Right: -0.000 ± 0.000 χ^2/NDF : 12855888992.9/71

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

In: -0.000 ± 0.000 χ^2/NDF : 9910413875.3/57

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044231540.2/36

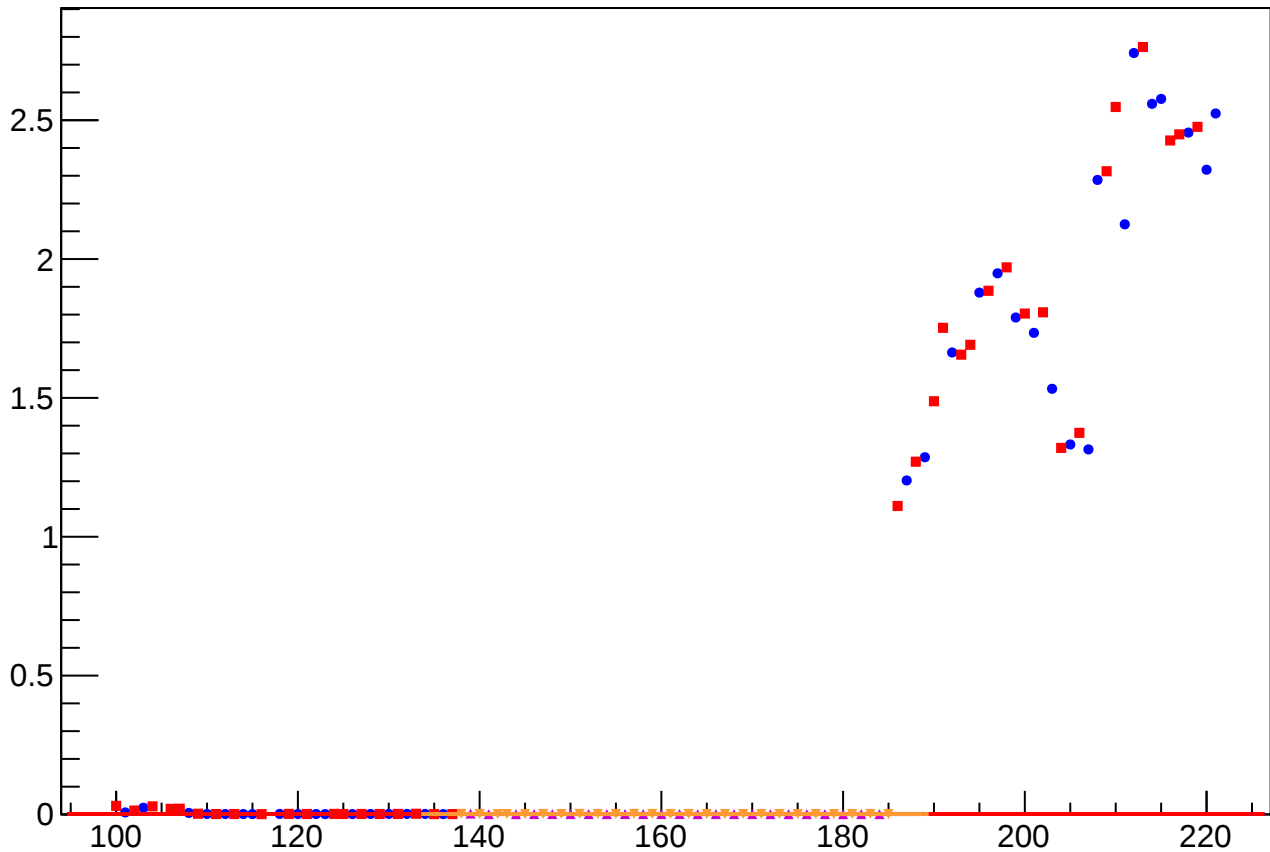
Out: 0.000 ± 0.000 χ^2/NDF : 3200471226.7/61

Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

All: 0.000 ± 0.000 χ^2/NDF : 13111256517.4/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 27675938.1/34

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 27157461.8/36

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

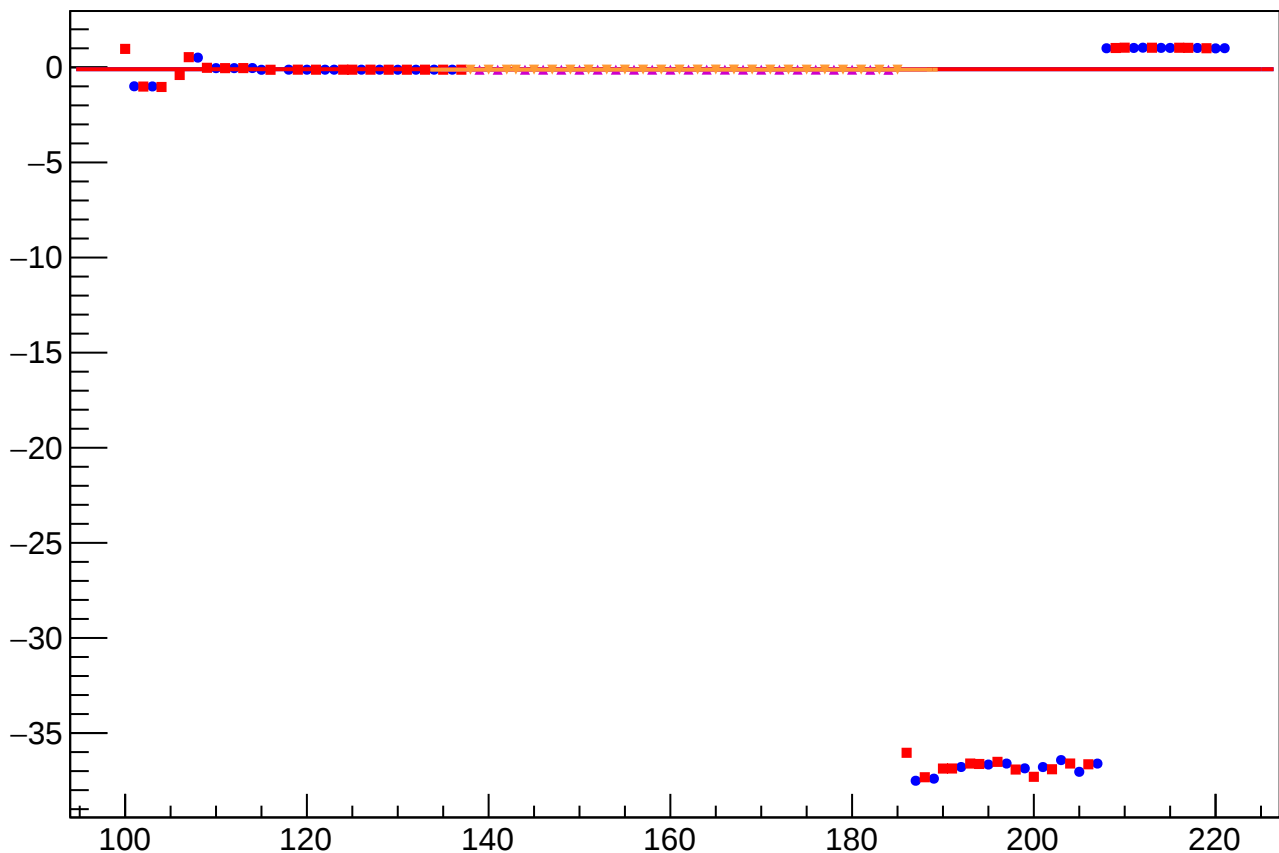
Right: 0.002+/-0.000 χ^2/NDF : 54841297.1/71

In: 0.002+/-0.000 χ^2/NDF : 28389511.0/57

Out: 0.002+/-0.000 χ^2/NDF : 27834524.1/61

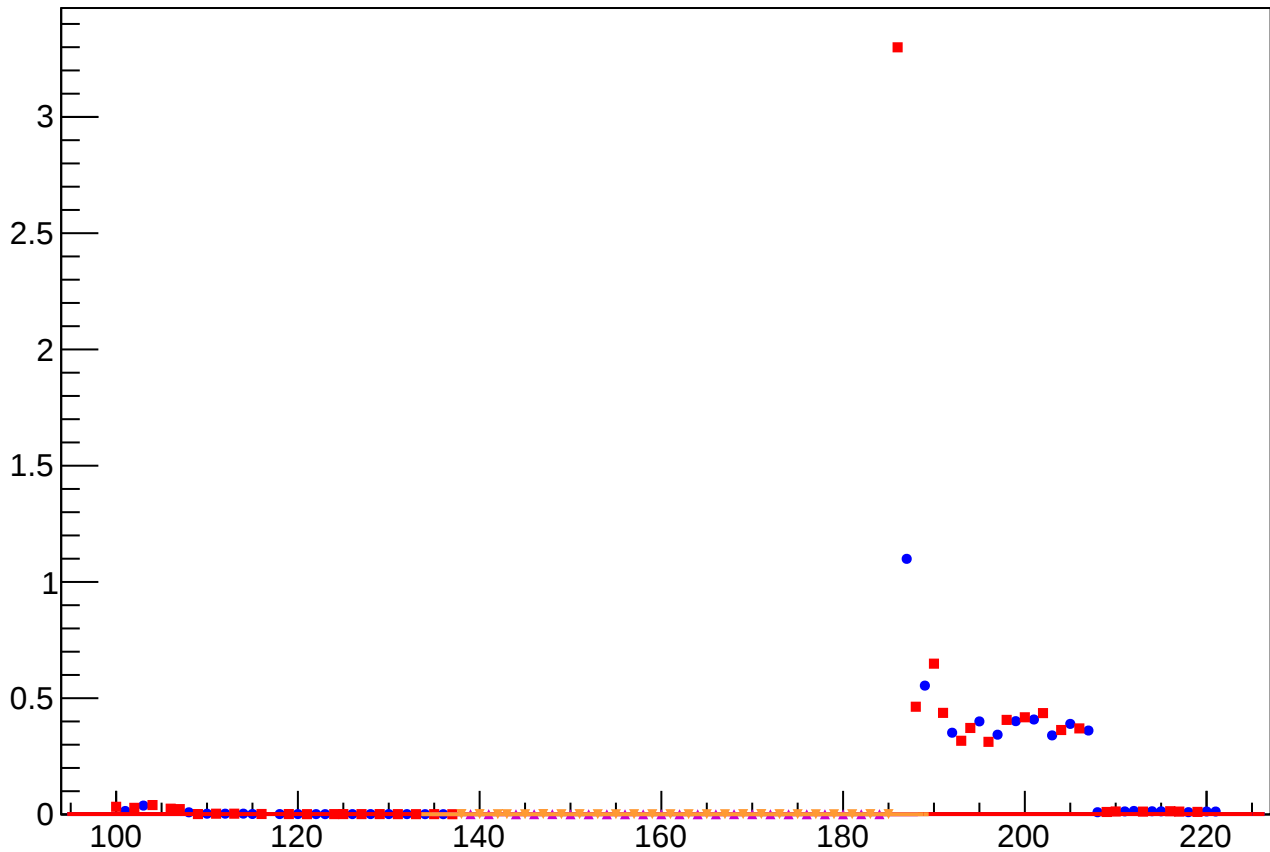
All: 0.002+/-0.000 χ^2/NDF : 56224680.4/119

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.098+/-0.000	χ^2/NDF : 114707545129.4/34	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.098+/-0.000	χ^2/NDF : 221184575979.1/71
Right Out: -0.099+/-0.000	χ^2/NDF : 106476744741.9/36	In: -0.119+/-0.000	χ^2/NDF : 115655678731.9/57
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.119+/-0.000	χ^2/NDF : 107407401939.6/61
		All: -0.119+/-0.000	χ^2/NDF : 223064155116.2

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24788018.2/34

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 24889374.9/36

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

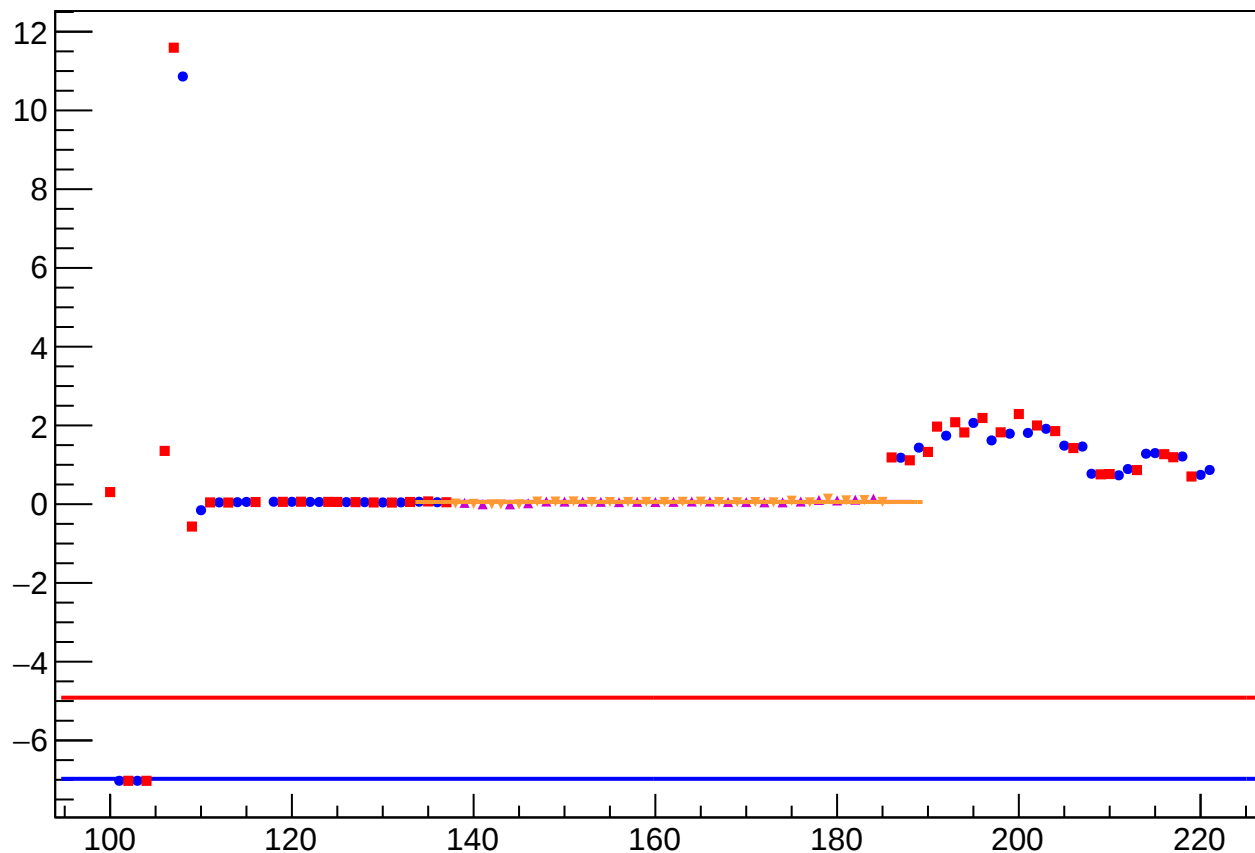
Right: 0.002+/-0.000 χ^2/NDF : 49683516.1/71

In: 0.001+/-0.000 χ^2/NDF :27948111.7/57

Out: 0.001+/-0.000 χ^2/NDF :28195920.9/61

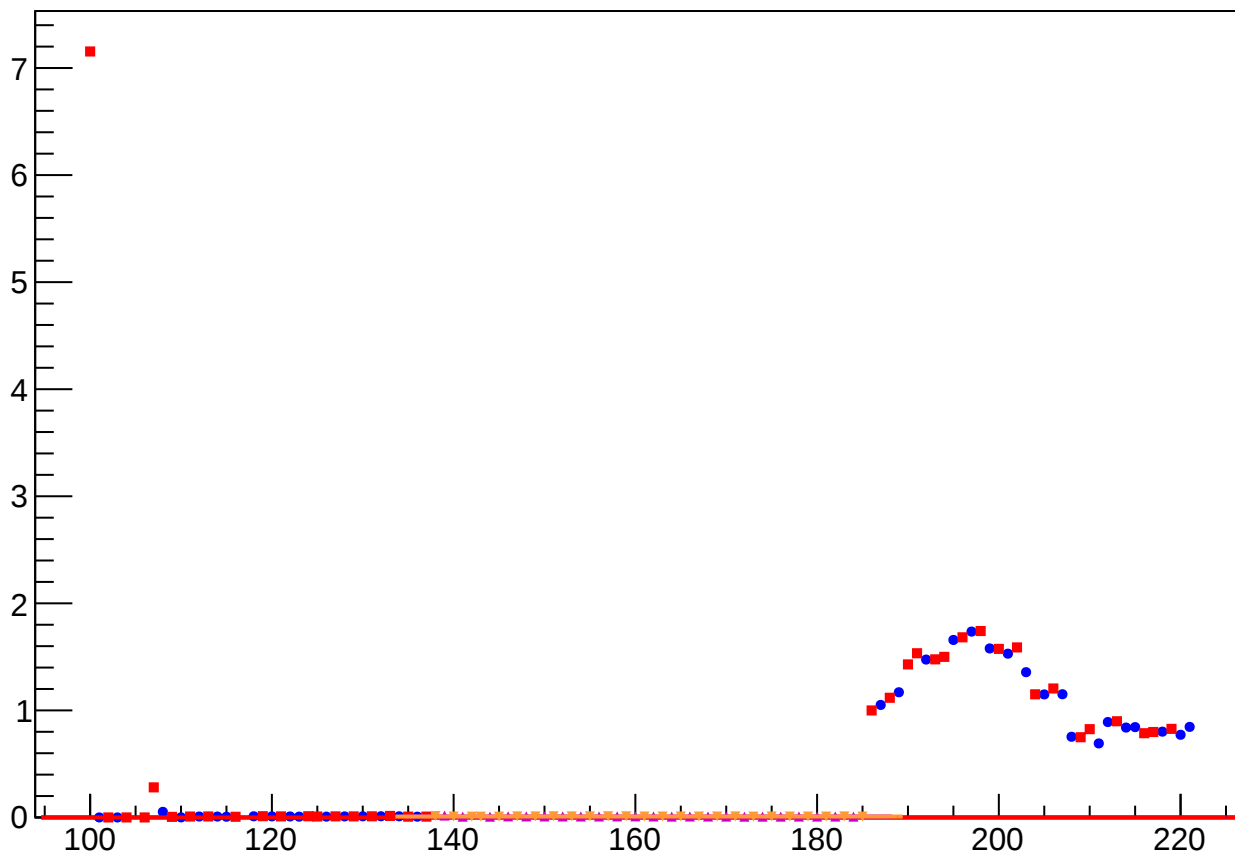
All: 0.001+/-0.000 χ^2/NDF : 56149641.9/119

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763306111710.8/34$ 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 $\chi^2/\text{NDF}: 430304382876767.0$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348939813044.2/36$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605824645319.6/57$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175623392893.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435823363966.0/100$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34007413.6/34

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32924838.8/36

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

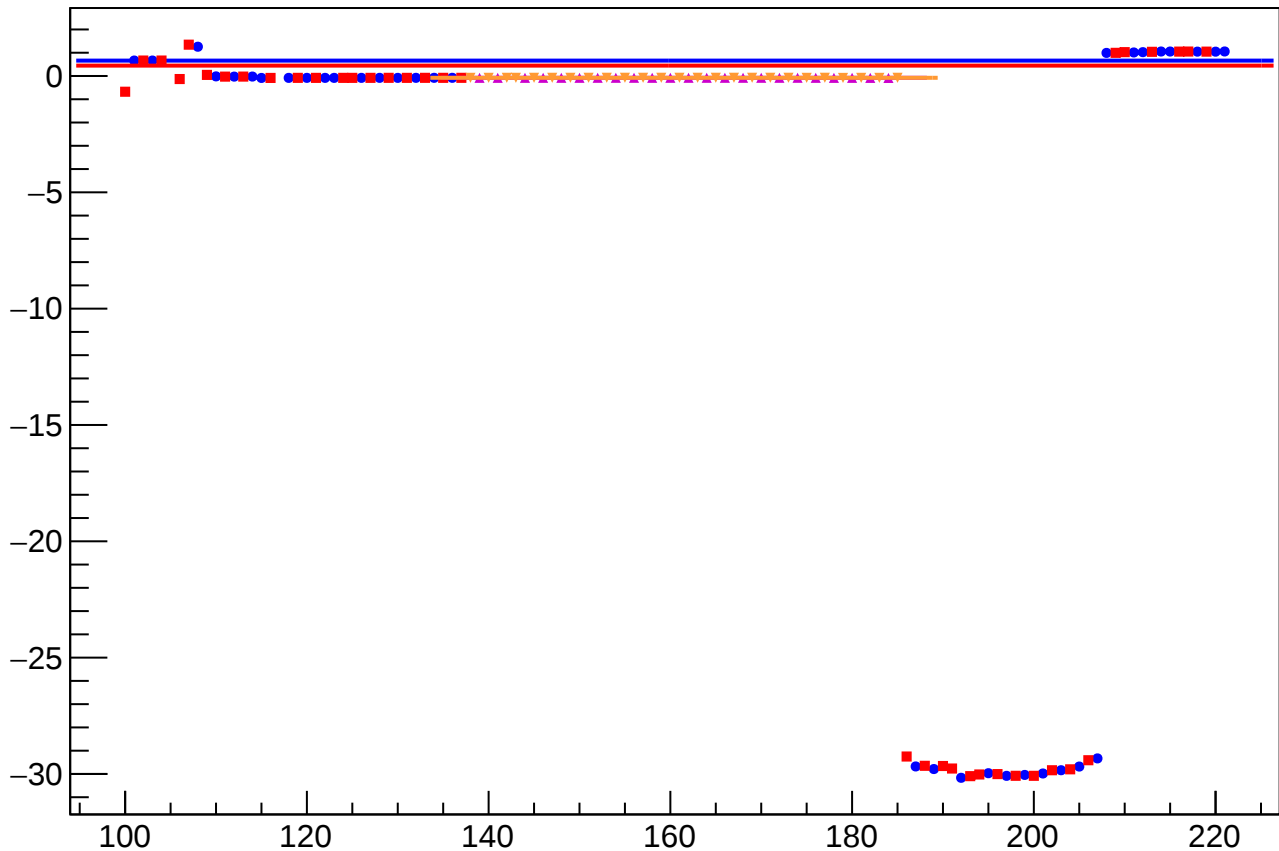
Right: 0.000+/-0.000 χ^2/NDF : 66932577.7/71

In: 0.000+/-0.000 χ^2/NDF : 61642012.0/57

Out: 0.000+/-0.000 χ^2/NDF : 61951313.9/61

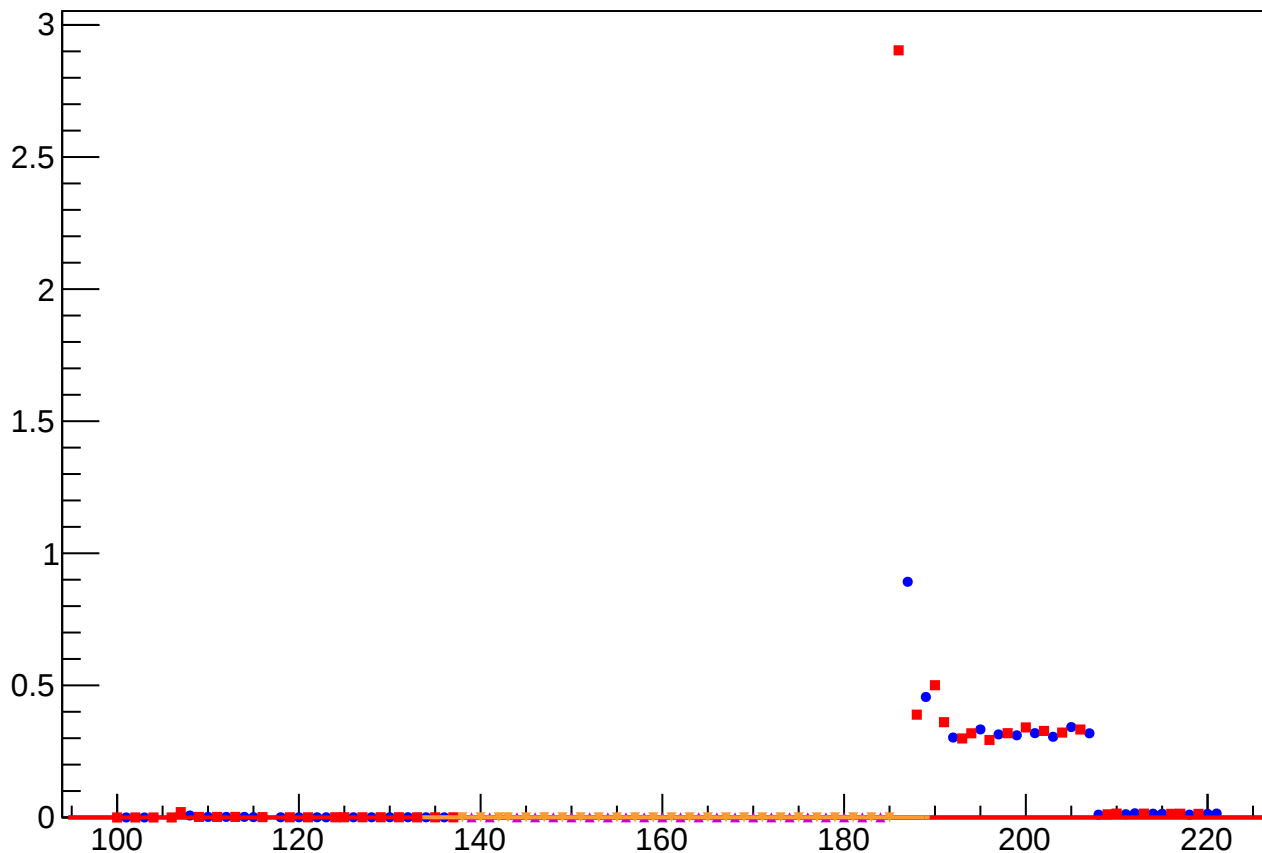
All: 0.000+/-0.000 χ^2/NDF : 123593839.5/119

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5650606471090.8/34	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474067356506541.0/47
Right Out: 0.446+/-0.000	χ^2/NDF : 405486762014241.5/36	In: 0.647+/-0.000	χ^2/NDF : 33910926157552.8/57
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420681605281664.0/64
		All: 0.537+/-0.000	χ^2/NDF : 51611801303719.0/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 35196633.7/34

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33438861.5/36

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

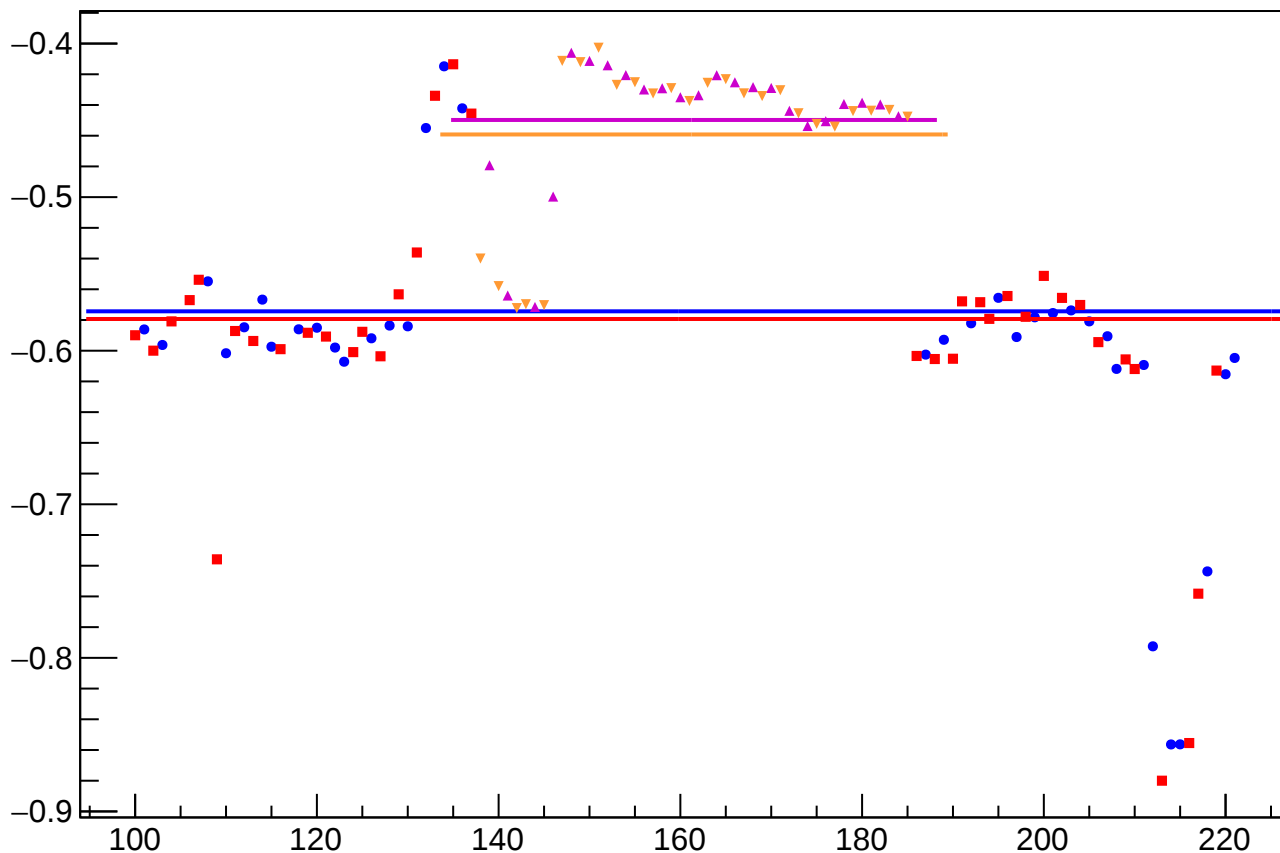
Right: 0.000+/-0.000 χ^2/NDF : 68635527.7/71

In: 0.000+/-0.000 χ^2/NDF :66155582.8/57

Out: 0.000+/-0.000 χ^2/NDF :66139388.1/61

All: 0.000+/-0.000 χ^2/NDF : 132295505.2/119

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574 $\pm$ 0.000 χ^2/NDF : 11543328.3/34

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.579 $\pm$ 0.000 χ^2/NDF : 119915621.4/36

Left In: -0.450 $\pm$ 0.000 χ^2/NDF : 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2/NDF : 191688333.2/47

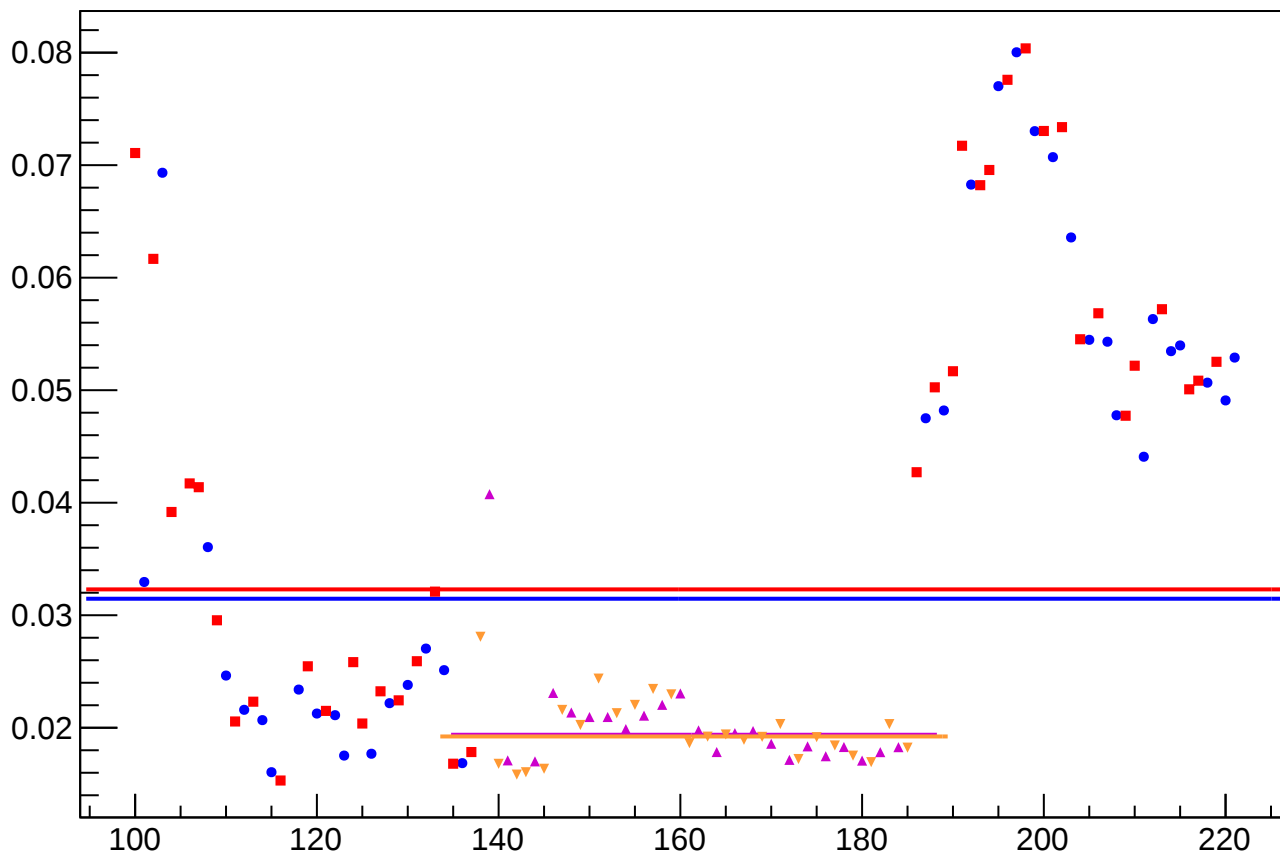
Right: -0.577 $\pm$ 0.000 χ^2/NDF : 235522684.1/71

In: -0.484 $\pm$ 0.000 χ^2/NDF : 353107583.0/57

Out: -0.489 $\pm$ 0.000 χ^2/NDF : 379453690.6/61

All: -0.487 $\pm$ 0.000 χ^2/NDF : 733200322.7/11

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8295223.3/34

Left Out: 0.019+/-0.000 χ^2/NDF :501253.7/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7835570.5/36

Left In: 0.019+/-0.000 χ^2/NDF :656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

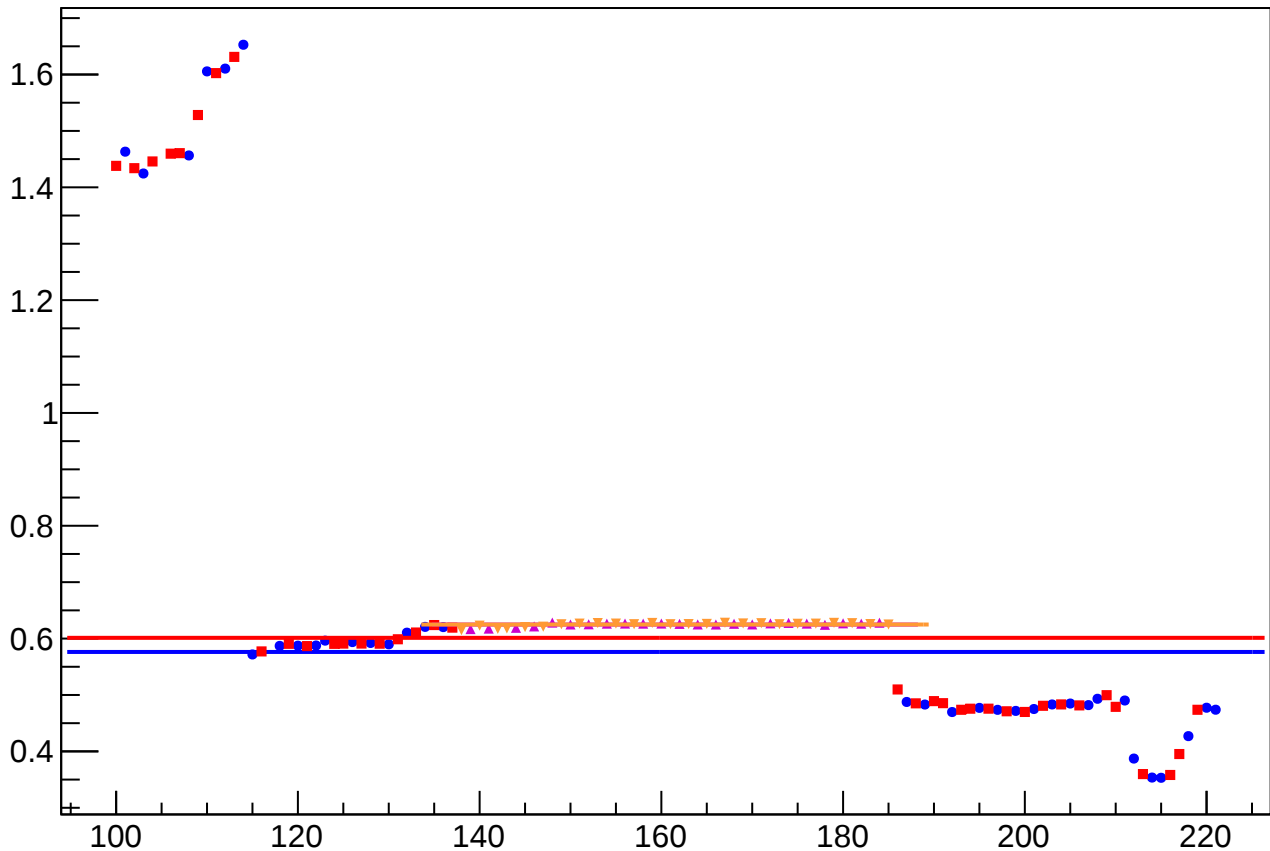
Right: 0.032+/-0.000 χ^2/NDF : 16140401.6/71

In: 0.023+/-0.000 χ^2/NDF :11992424.4/57

Out: 0.023+/-0.000 χ^2/NDF :11786116.9/61

All: 0.023+/-0.000 χ^2/NDF : 23781464.0/119

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.576 $\pm$ 0.000 χ^2/NDF : 5645263239.0/34

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF : 1442225.6/24

Right Out: 0.601 $\pm$ 0.000 χ^2/NDF : 6628936062.7/36

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

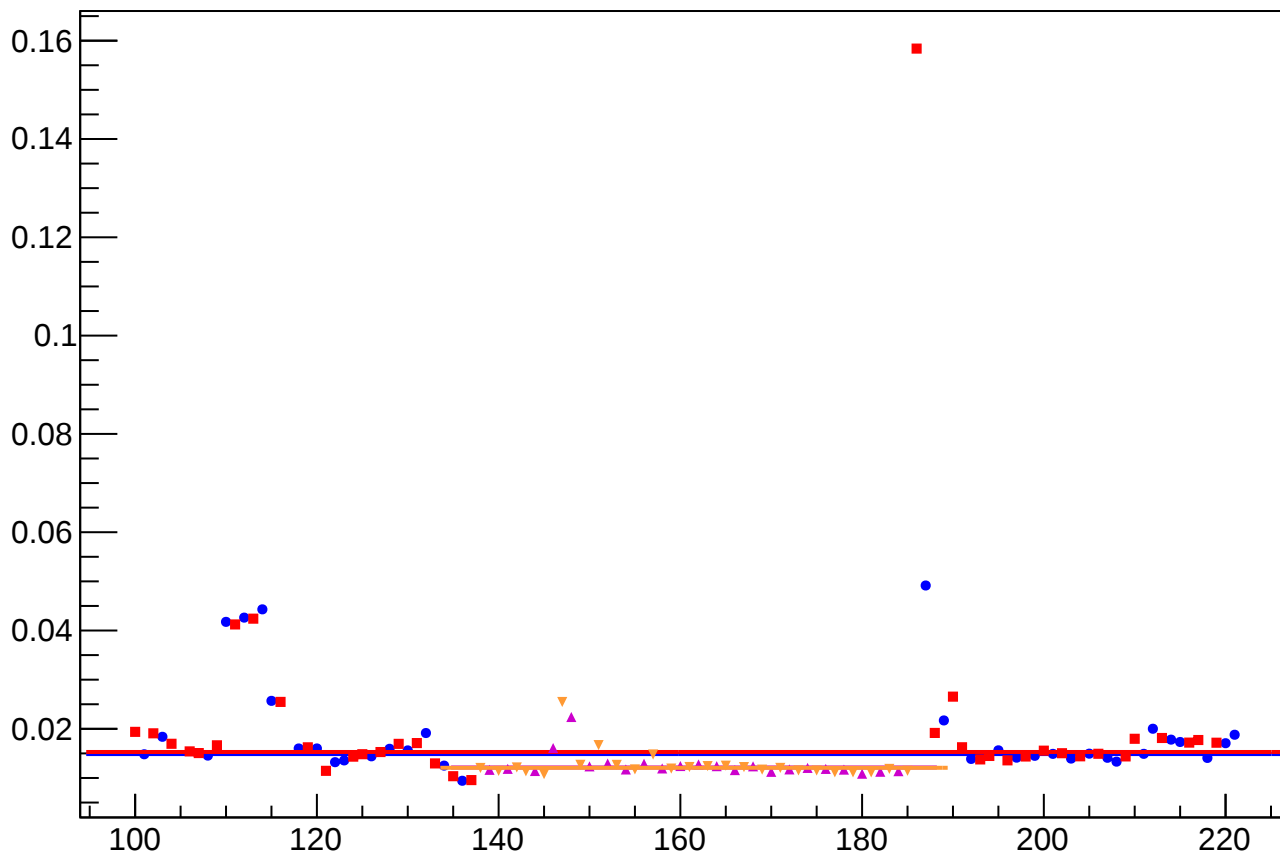
Right: 0.588 $\pm$ 0.000 χ^2/NDF : 12298655949.5/71

In: 0.605 $\pm$ 0.000 χ^2/NDF : 5758588244.4/57

Out: 0.616 $\pm$ 0.000 χ^2/NDF : 6656138652.6/61

All: 0.610 $\pm$ 0.000 χ^2/NDF : 12427237958.5/1

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1964235.7/34

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2228304.9/36

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

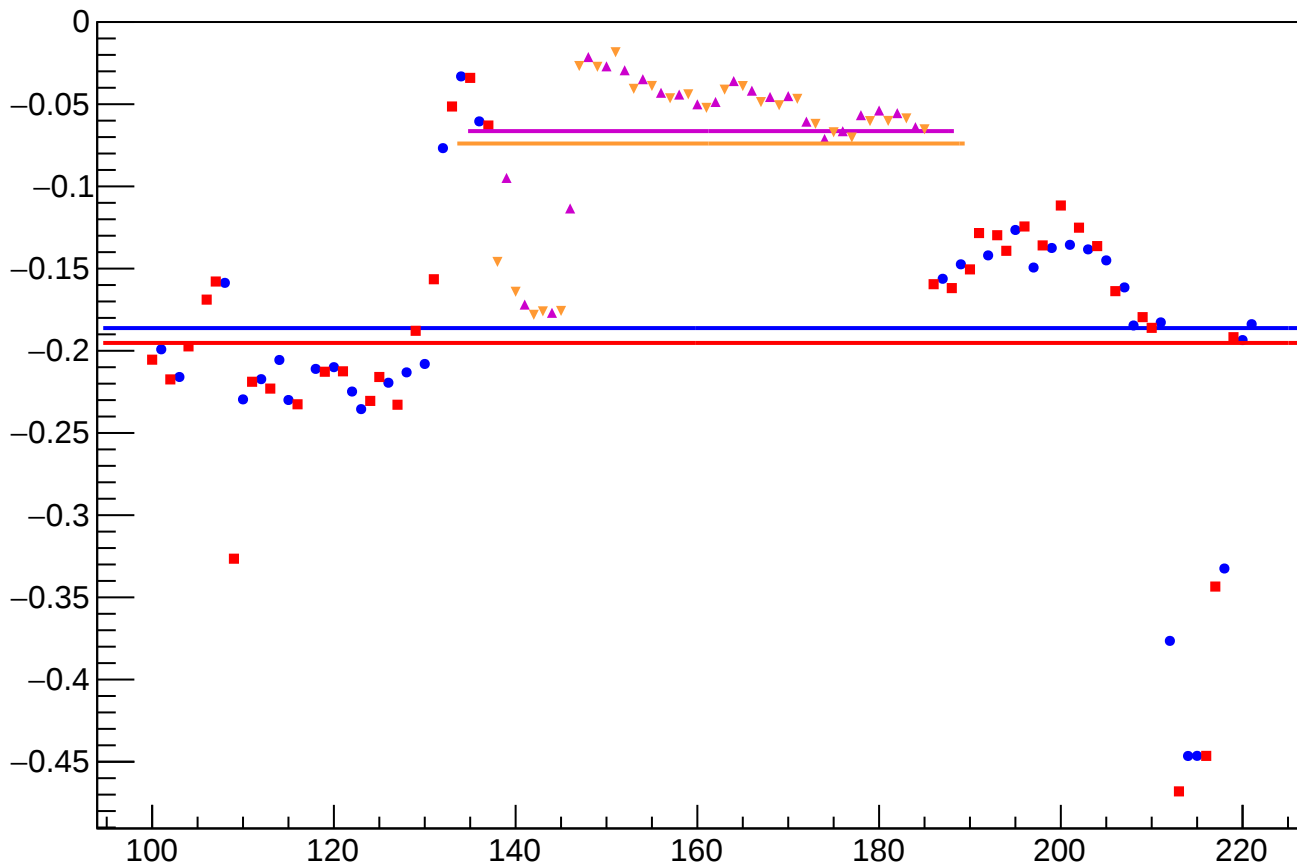
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 4206621.1/71

In: 0.013 $\pm$ 0.000 χ^2 /NDF:3161225.2/57

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3843241.8/61

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 7004613.9/119

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2/NDF : 127812870.4/34

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134106557.2/36

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

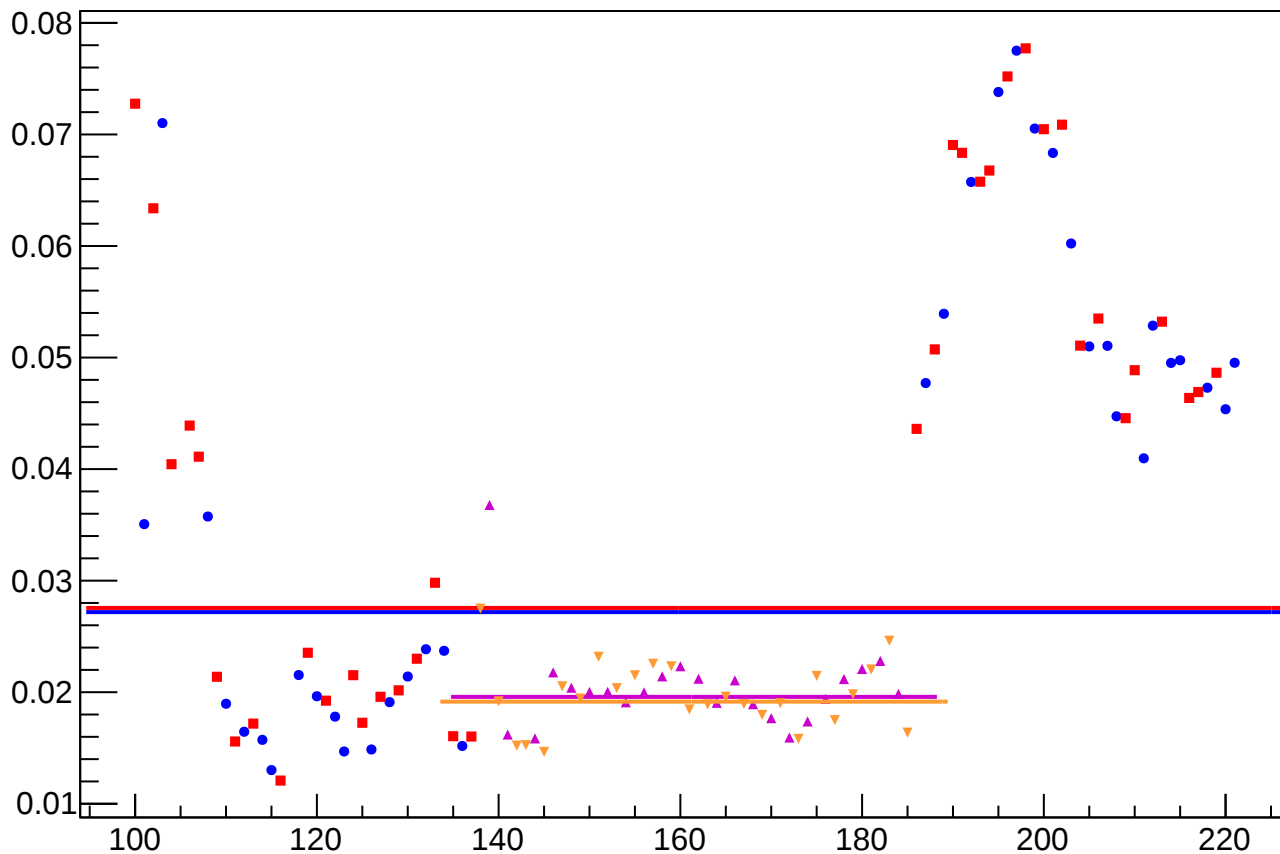
Right: -0.191+/-0.000 χ^2/NDF : 262647701.6/71

In: -0.106+/-0.000 χ^2/NDF : 380822403.2/57

Out: -0.110+/-0.000 χ^2/NDF : 421758453.9/61

All: -0.108+/-0.000 χ^2/NDF : 803069689.9/111

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9769801.9/34

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9593347.2/36

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

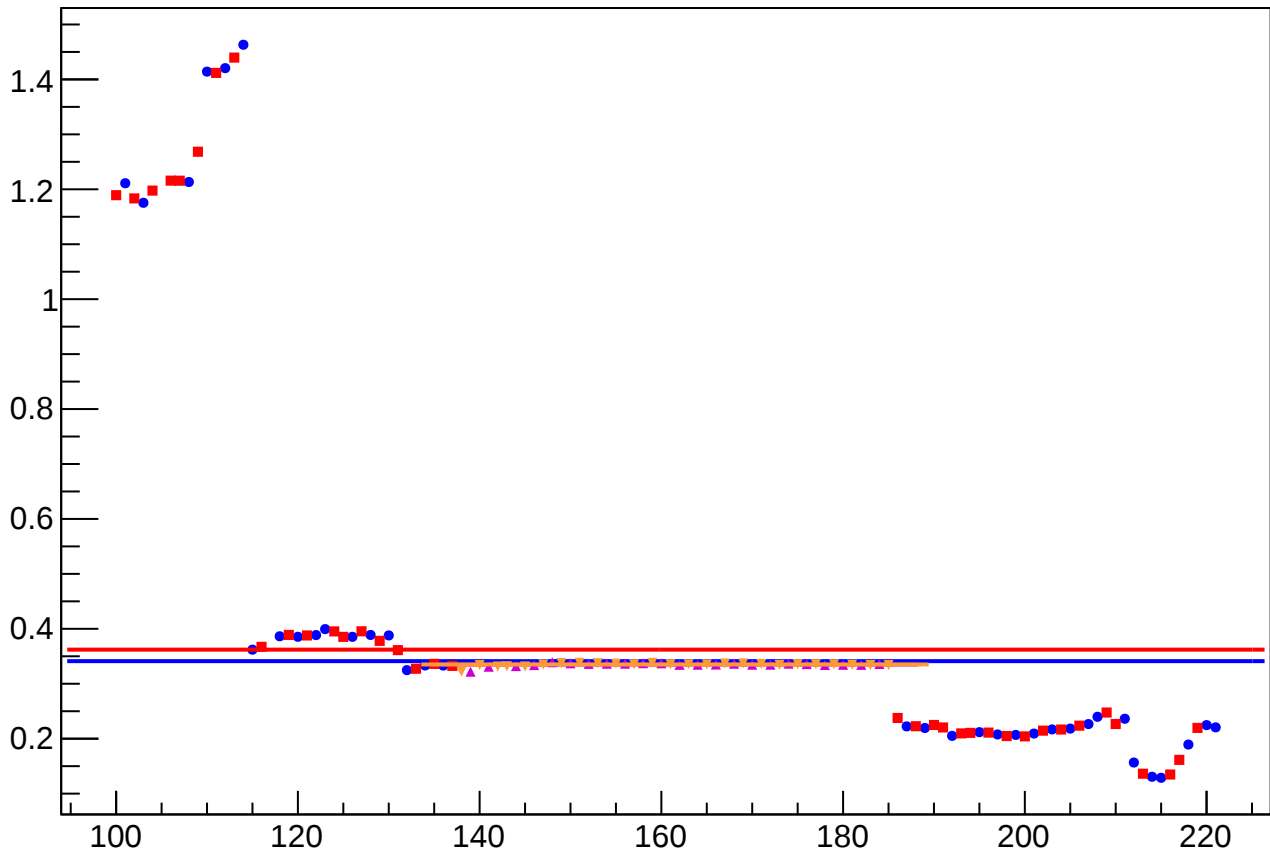
Right: 0.027+/-0.000 χ^2/NDF : 19365661.1/71

In: 0.022+/-0.000 χ^2/NDF : 11843071.0/57

Out: 0.022+/-0.000 χ^2/NDF : 11958839.3/61

All: 0.022+/-0.000 χ^2/NDF : 23812609.7/119

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 8135536260.8/34

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.362+/-0.000 χ^2/NDF : 9136216152.3/36

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

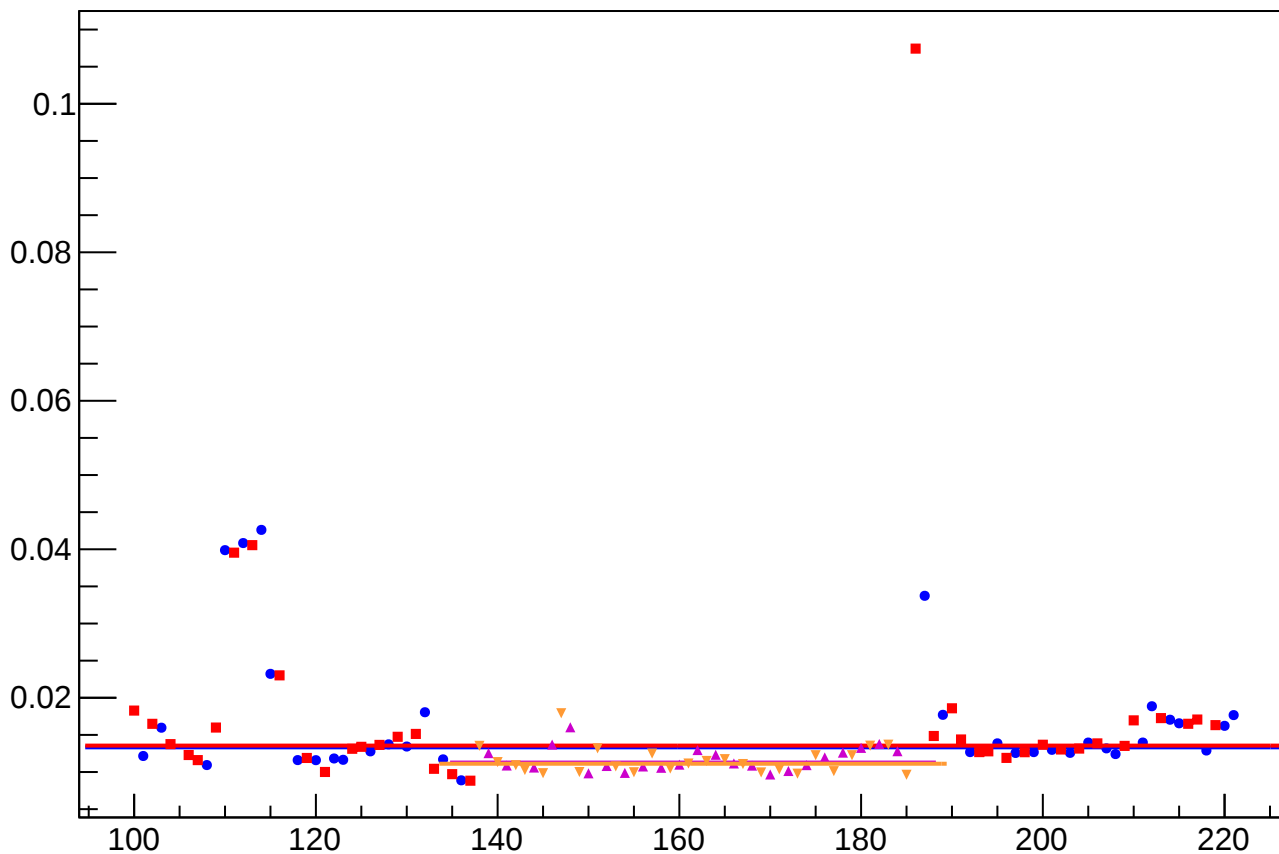
Right: 0.351+/-0.000 χ^2/NDF : 17293167509.2/71

In: 0.338+/-0.000 χ^2/NDF :8138887892.0/57

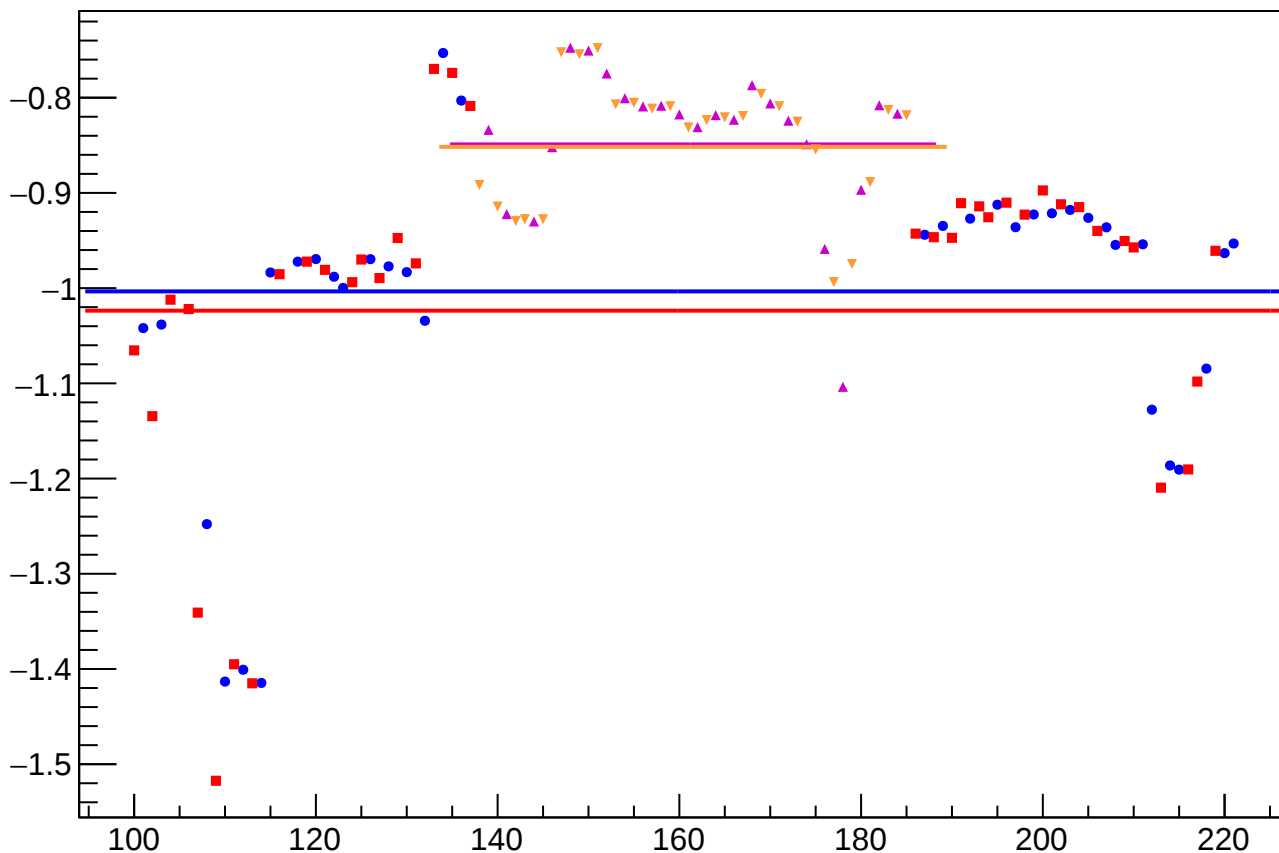
Out: 0.346+/-0.000 χ^2/NDF :9178680597.7/61

All: 0.342+/-0.000 χ^2/NDF : 17325460851.0/131

yield_bpm4eY_rms vs Slug, Sign Corrected



yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003 ± 0.000 $\chi^2/\text{NDF}: 430231686.2/34$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.024 ± 0.000 $\chi^2/\text{NDF}: 578381828.8/36$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

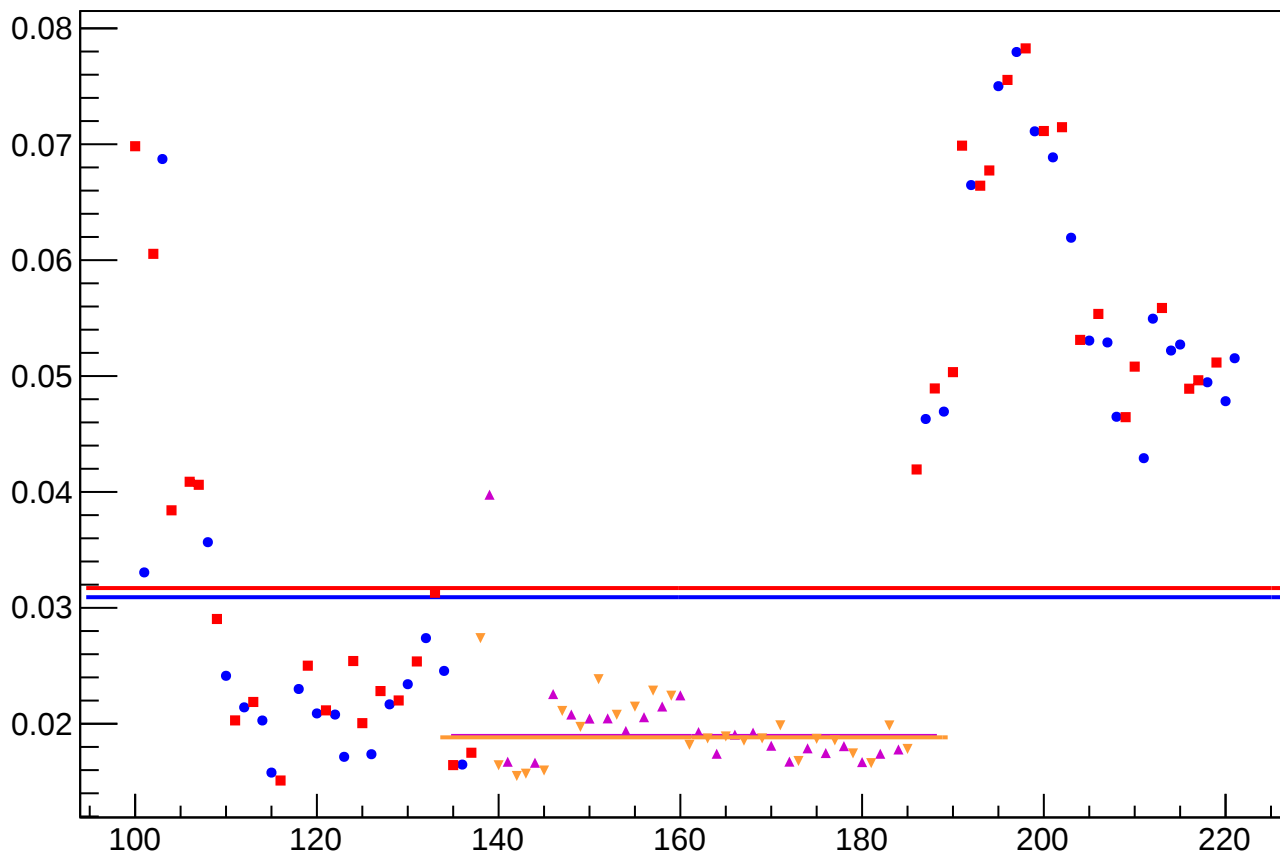
Right: -1.013 ± 0.000 $\chi^2/\text{NDF}: 1011584583.4/71$

In: -0.892 ± 0.000 $\chi^2/\text{NDF}: 944733726.8/57$

Out: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1078507018.8/61$

All: -0.893 ± 0.000 $\chi^2/\text{NDF}: 2023480530.2/1$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8212739.1/34

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7743411.6/36

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

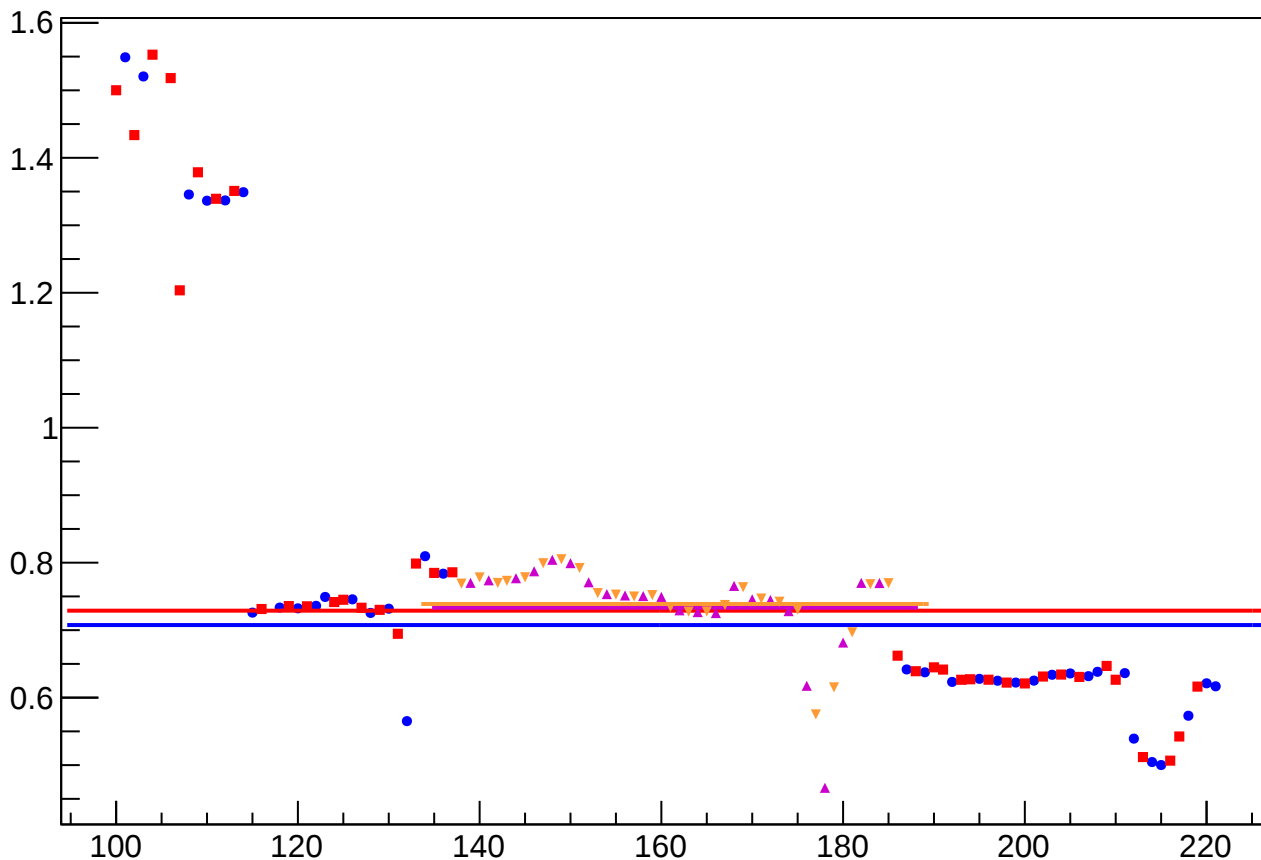
Right: 0.031+/-0.000 χ^2/NDF : 15965166.8/71

In: 0.022+/-0.000 χ^2/NDF : 11960739.9/57

Out: 0.022+/-0.000 χ^2/NDF : 11718012.4/61

All: 0.022+/-0.000 χ^2/NDF : 23681139.6/119

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.708 $\pm$ 0.000 χ^2 /NDF: 3947496923.0/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.729 $\pm$ 0.000 χ^2 /NDF: 4221995220.5/36

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

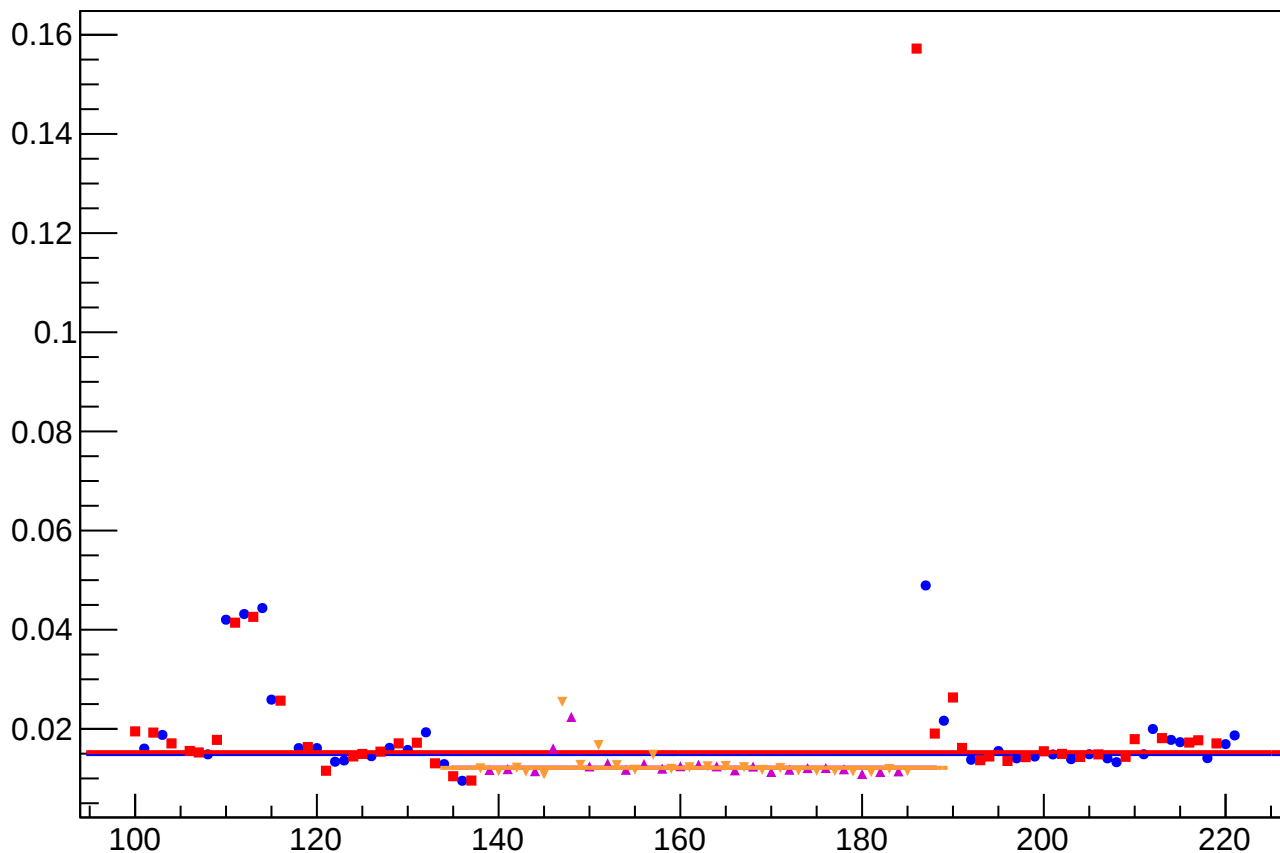
Right: 0.718 $\pm$ 0.000 χ^2 /NDF: 8187124068.0/71

In: 0.723 $\pm$ 0.000 χ^2 /NDF:4549090212.5/57

Out: 0.735 $\pm$ 0.000 χ^2 /NDF:4559619577.2/61

All: 0.729 $\pm$ 0.000 χ^2 /NDF: 9123680914.6/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1948338.1/34

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2227729.0/36

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

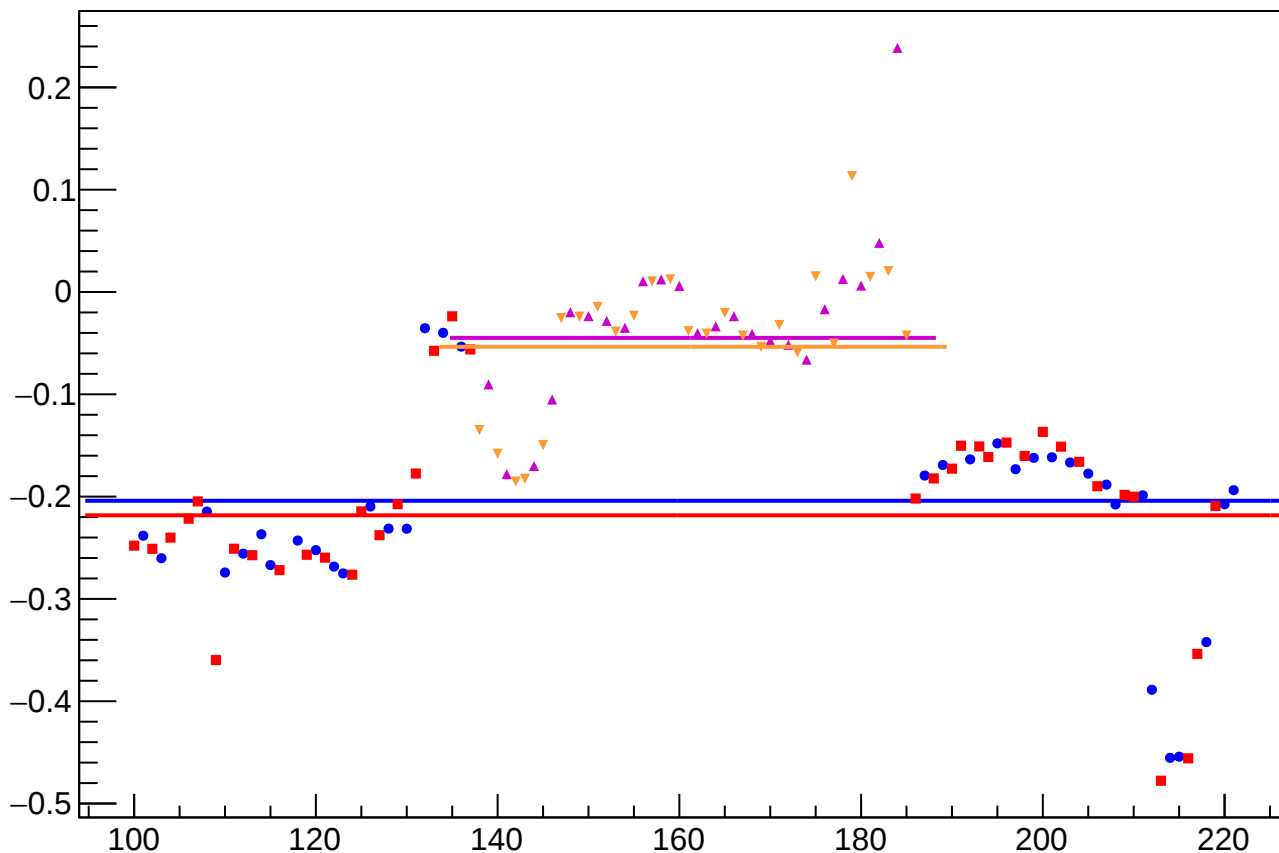
Right: 0.015+/-0.000 χ^2/NDF : 4188081.5/71

In: 0.013+/-0.000 χ^2/NDF : 3130342.6/57

Out: 0.013+/-0.000 χ^2/NDF : 3787534.0/61

All: 0.013+/-0.000 χ^2/NDF : 6918051.4/119

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160351143.0/34$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 155523978.7/36$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

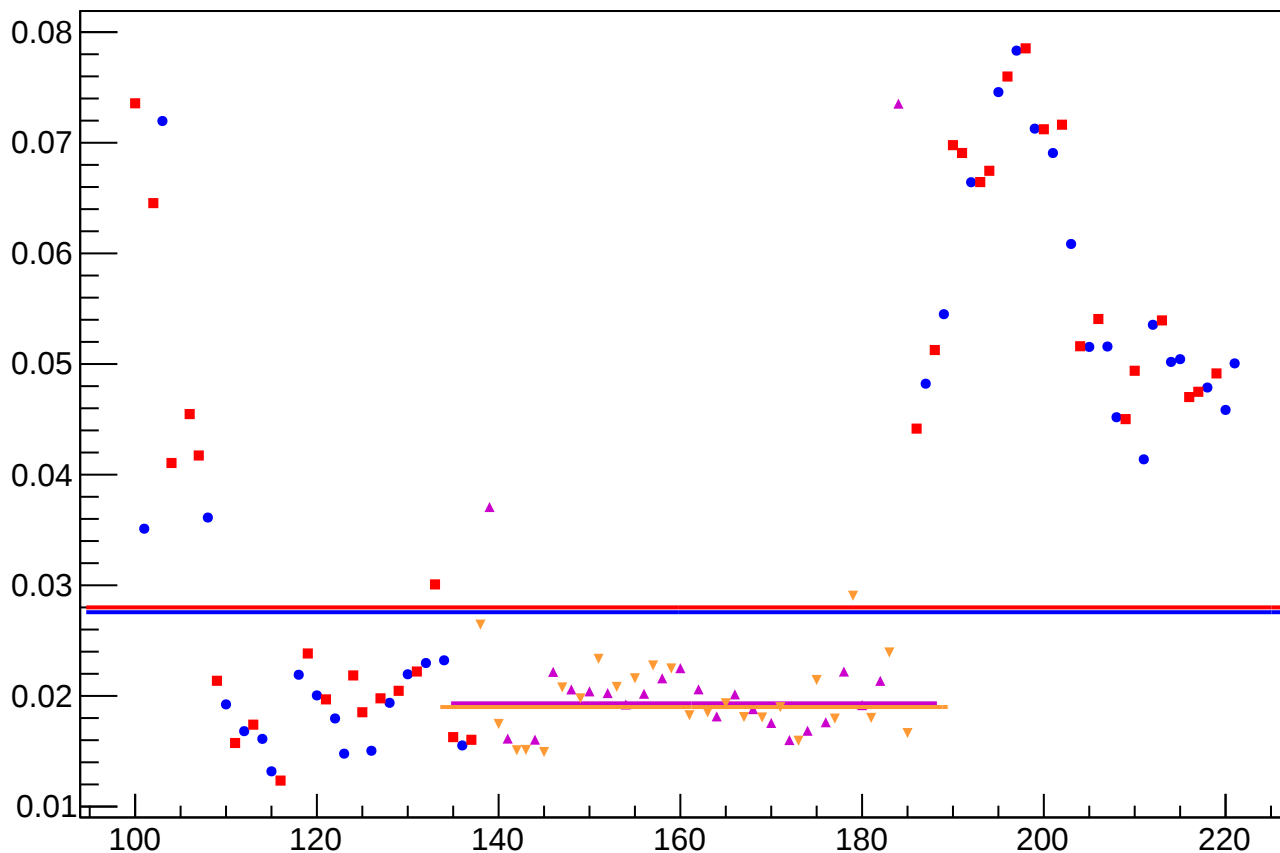
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 317618588.9/71$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 593778651.2/57$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 646132126.6/61$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1240753755.5/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 9701132.4/34

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9526207.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

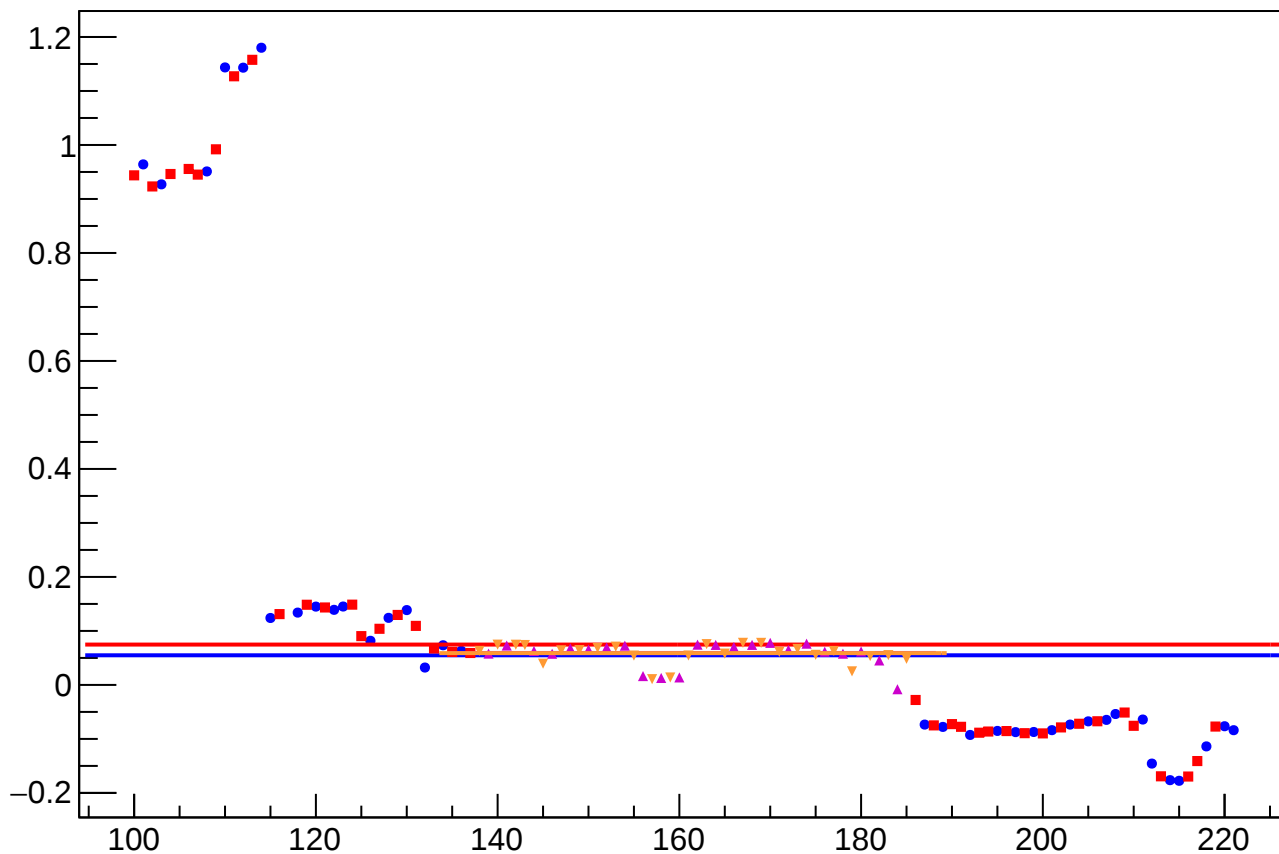
Right: 0.028+/-0.000 χ^2/NDF : 19230643.6/71

In: 0.022+/-0.000 χ^2/NDF : 12232708.0/57

Out: 0.022+/-0.000 χ^2/NDF : 12156325.6/61

All: 0.022+/-0.000 χ^2/NDF : 24396251.3/119

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.055+/-0.000 χ^2/NDF : 8909469497.5/34

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.075+/-0.000 χ^2/NDF : 9721322184.9/36

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

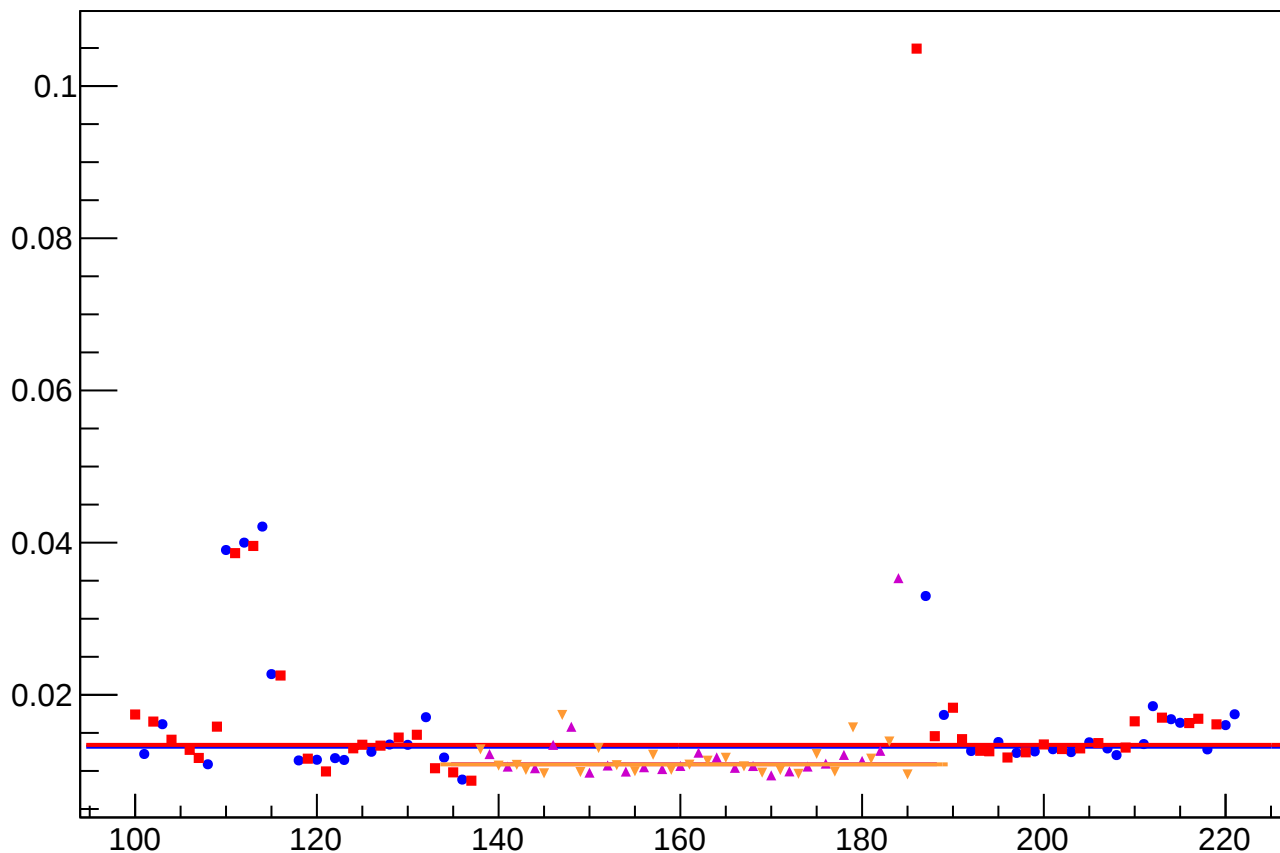
Right: 0.064+/-0.000 χ^2/NDF : 18650464065.1/71

In: 0.057+/-0.000 χ^2/NDF : 8969203520.3/57

Out: 0.065+/-0.000 χ^2/NDF : 9782730726.8/61

All: 0.061+/-0.000 χ^2/NDF : 18759454548.8/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1949543.3/34

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2196452.6/36

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

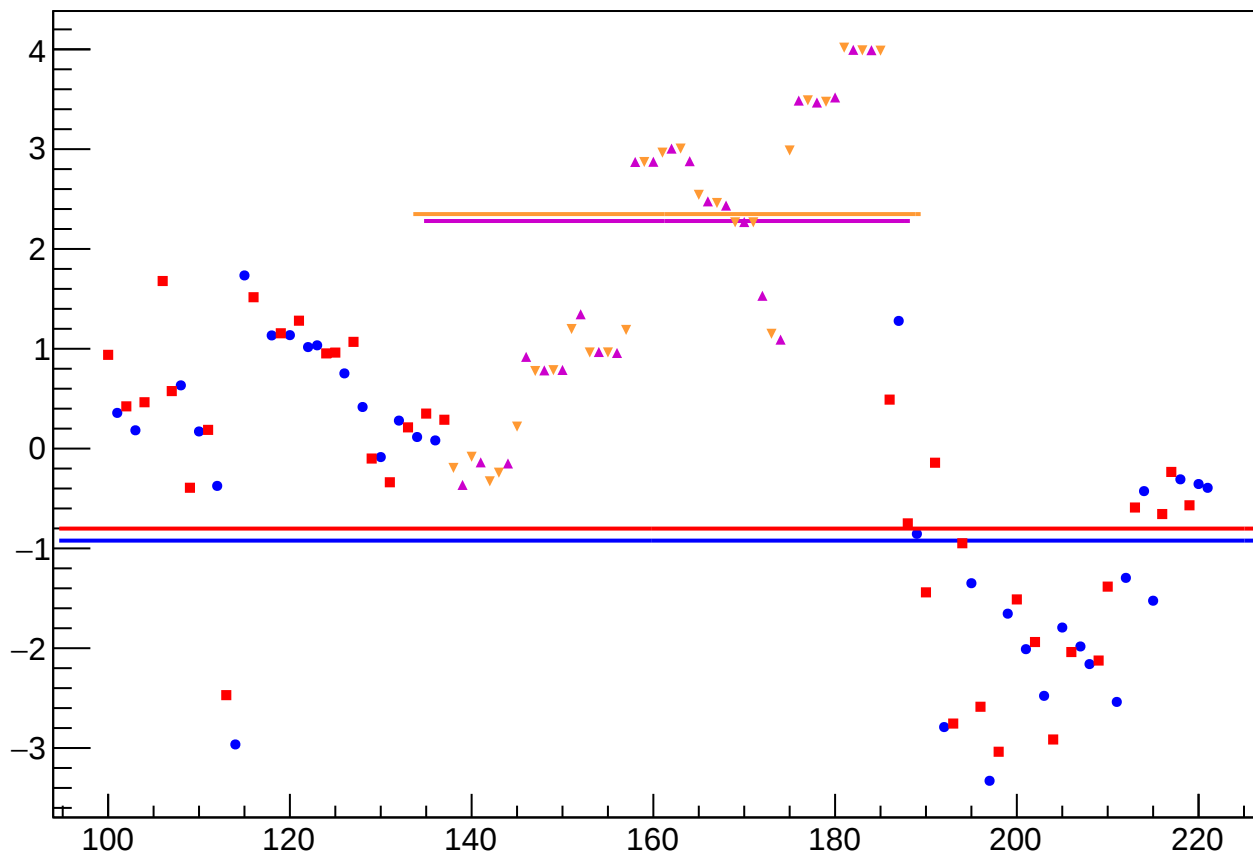
Right: 0.013+/-0.000 χ^2/NDF : 4151845.3/71

In: 0.012+/-0.000 χ^2/NDF : 3098446.8/57

Out: 0.012+/-0.000 χ^2/NDF : 3560643.9/61

All: 0.012+/-0.000 χ^2/NDF : 6659132.7/119

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.922 ± 0.000 $\chi^2/\text{NDF}: 8221794277.6/34$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.802 ± 0.000 $\chi^2/\text{NDF}: 8301494693.5/36$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

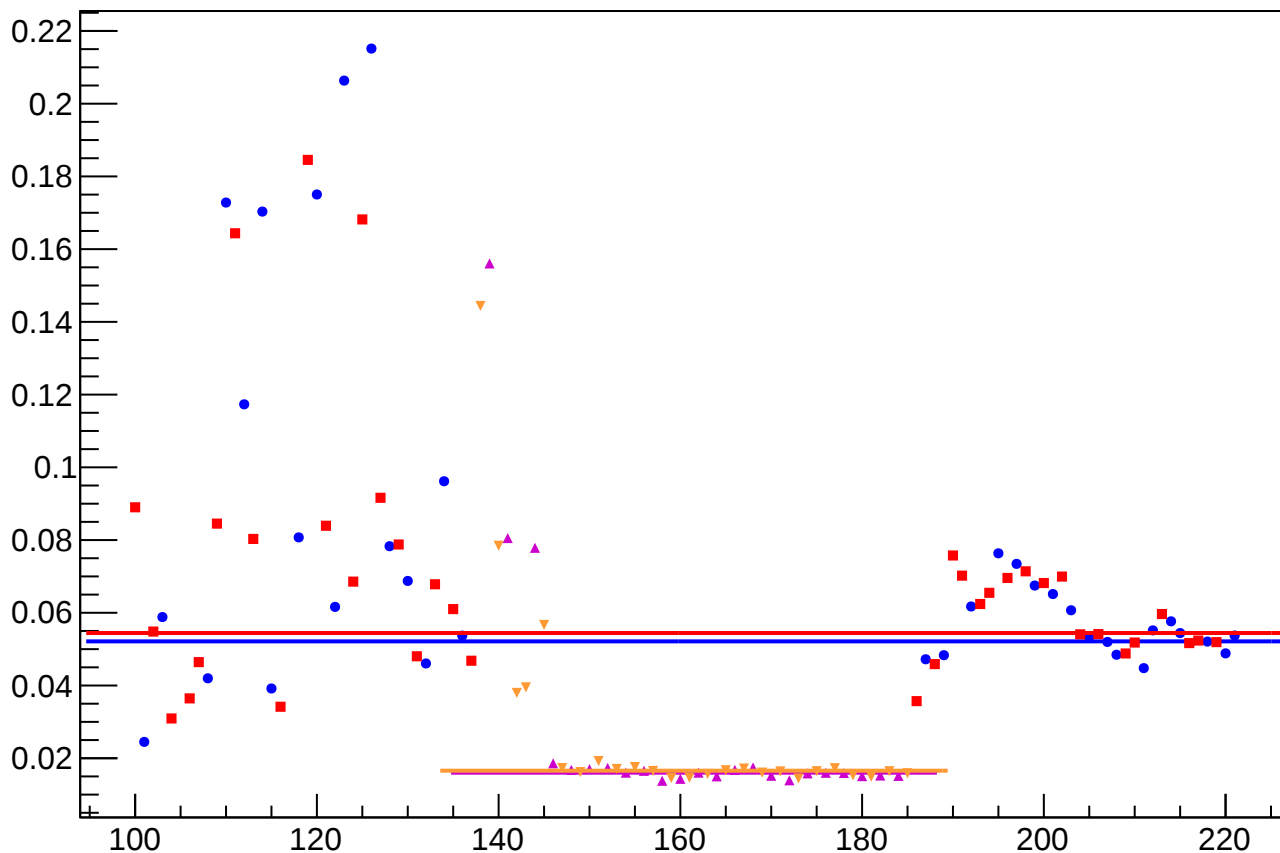
Right: -0.865 ± 0.000 $\chi^2/\text{NDF}: 16563265494.1/71$

In: 1.960 ± 0.000 $\chi^2/\text{NDF}: 123136881401.3/57$

Out: 2.056 ± 0.000 $\chi^2/\text{NDF}: 119170062992.7/61$

All: 2.007 ± 0.000 $\chi^2/\text{NDF}: 242569107312.7$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3534701.7/34

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2885644.2/36

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

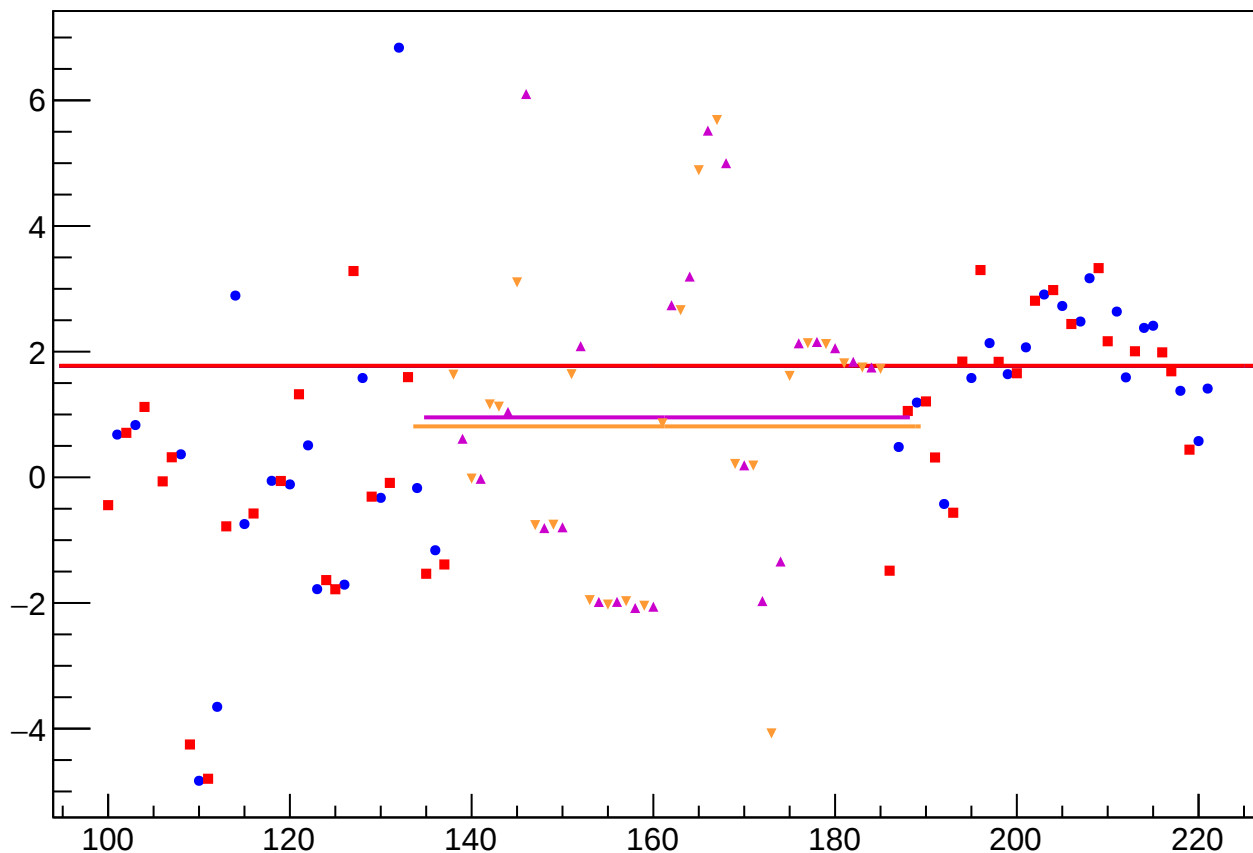
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6449582.0/71

In: 0.020 $\pm$ 0.000 χ^2 /NDF:19597385.0/57

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:19162360.2/61

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 38772127.7/119

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.772 $\pm$ 0.000

χ^2 /NDF: 44246105771.5/34

Left: 0.883 $\pm$ 0.000 χ^2 /NDF: 1083260277372.9/47

Right: 1.774 $\pm$ 0.000 χ^2 /NDF: 88123532161.8/71

Left Out: 0.810 $\pm$ 0.000

χ^2 /NDF: 507583198570.2/24

In: 1.206 $\pm$ 0.000 χ^2 /NDF: 636694485326.2/57

Right Out: 1.775 $\pm$ 0.000

χ^2 /NDF: 43877243693.8/36

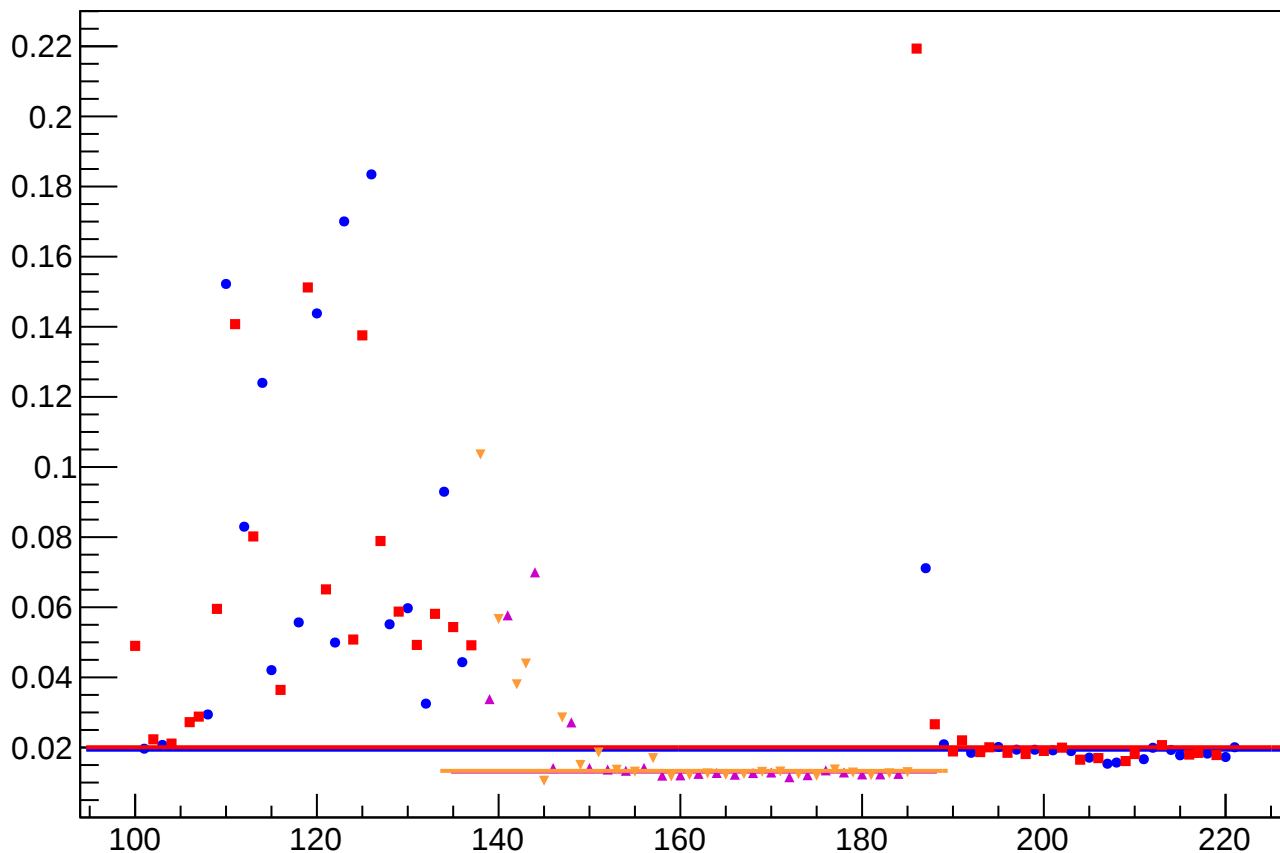
Out: 1.085 $\pm$ 0.000 χ^2 /NDF: 574021825152.0/61

Left In: 0.954 $\pm$ 0.000

χ^2 /NDF: 574792794608.3/22

All: 1.147 $\pm$ 0.000 χ^2 /NDF: 1211608406443.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4157248.7/34

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5227376.3/36

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

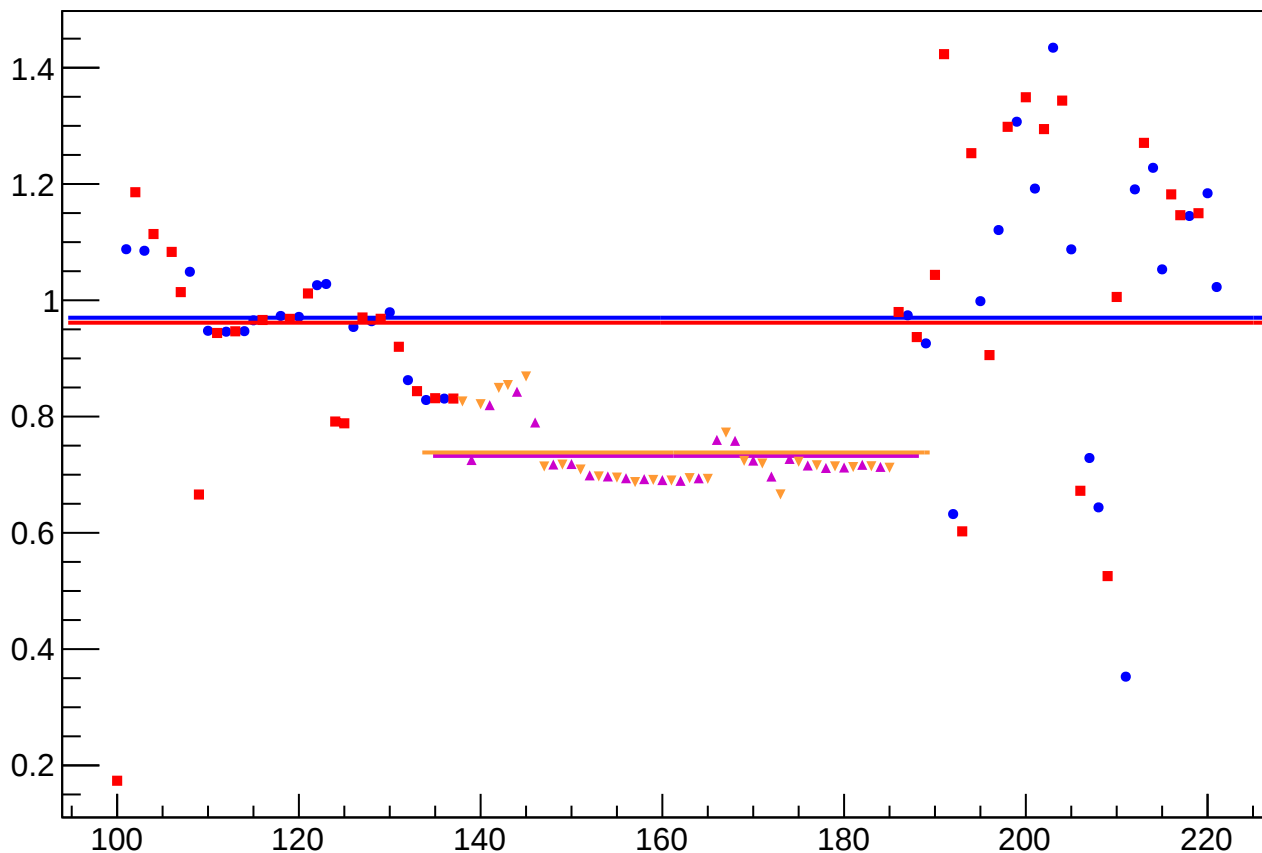
Right: 0.020+/-0.000 χ^2/NDF : 9402481.8/71

In: 0.015+/-0.000 χ^2/NDF : 8179024.7/57

Out: 0.015+/-0.000 χ^2/NDF : 10255538.8/61

All: 0.015+/-0.000 χ^2/NDF : 18439486.6/119

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.970 $\pm$ 0.000 χ^2 /NDF: 1087302469.8/34

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310610047.7/24

Right Out: 0.961 $\pm$ 0.000 χ^2 /NDF: 1319906774.3/36

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

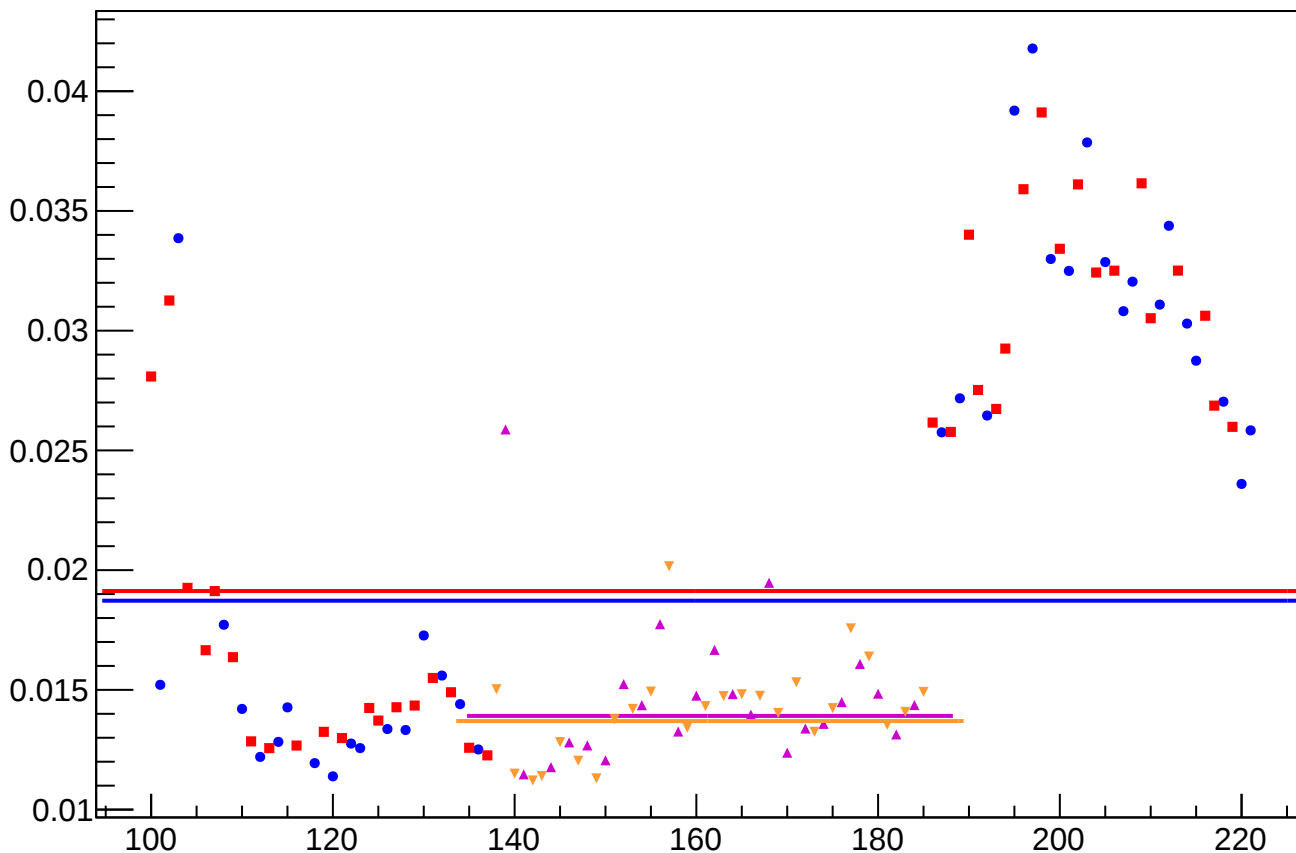
Right: 0.966 $\pm$ 0.000 χ^2 /NDF: 2408781625.9/71

In: 0.816 $\pm$ 0.000 χ^2 /NDF: 2858475962.6/57

Out: 0.811 $\pm$ 0.000 χ^2 /NDF: 3033865525.8/61

All: 0.813 $\pm$ 0.000 χ^2 /NDF: 5894023817.2/118

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5936251.6/34

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5243127.1/36

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

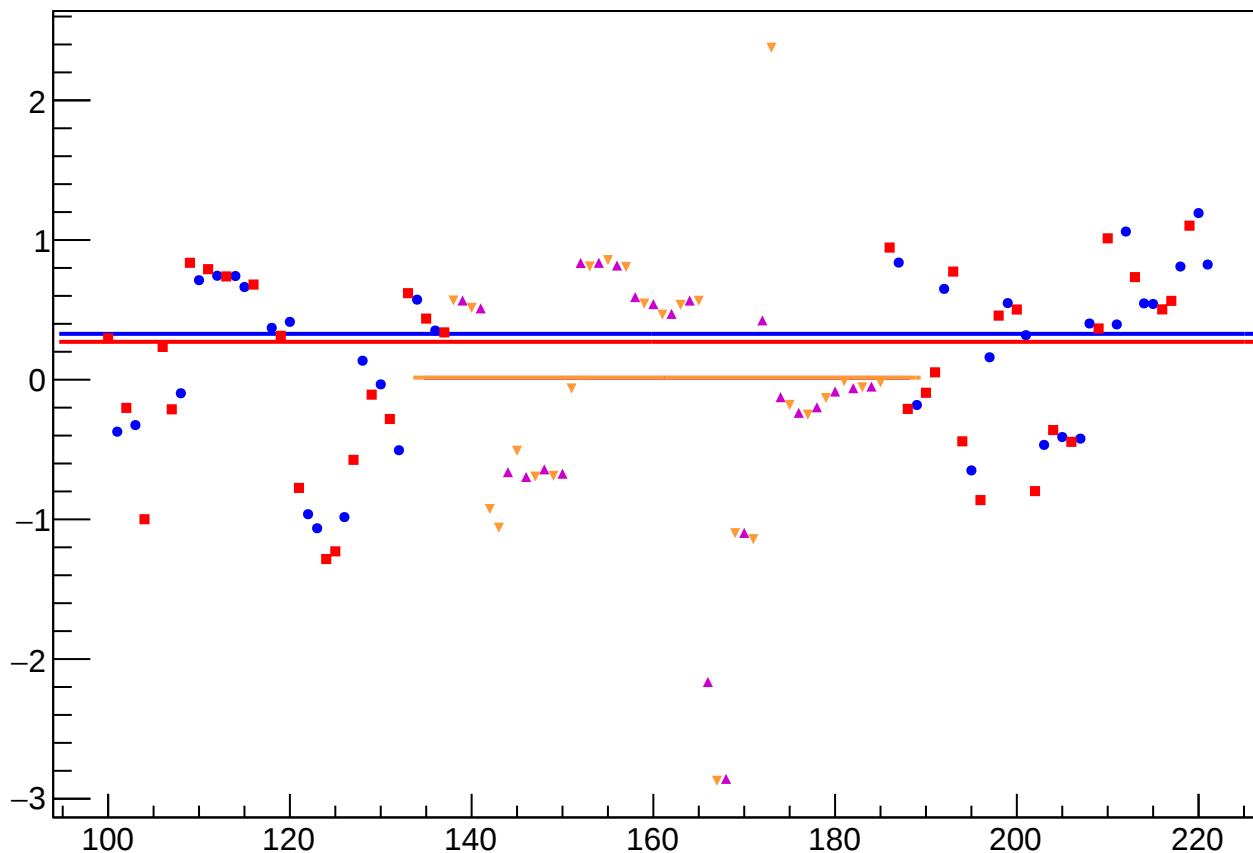
Right: 0.019+/-0.000 χ^2/NDF : 11186360.7/71

In: 0.016+/-0.000 χ^2/NDF : 8041960.5/57

Out: 0.015+/-0.000 χ^2/NDF : 7434793.6/61

All: 0.016+/-0.000 χ^2/NDF : 15479286.4/119

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.328+/-0.000

χ^2/NDF : 46664370908.3/34

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right: 0.301+/-0.000

χ^2/NDF : 97180522824.8/71

Right Out: 0.271+/-0.000

χ^2/NDF : 50298648609.4/36

In: 0.193+/-0.000

χ^2/NDF : 132131041030.7/57

Out: 0.152+/-0.000

χ^2/NDF : 150246439766.6/61

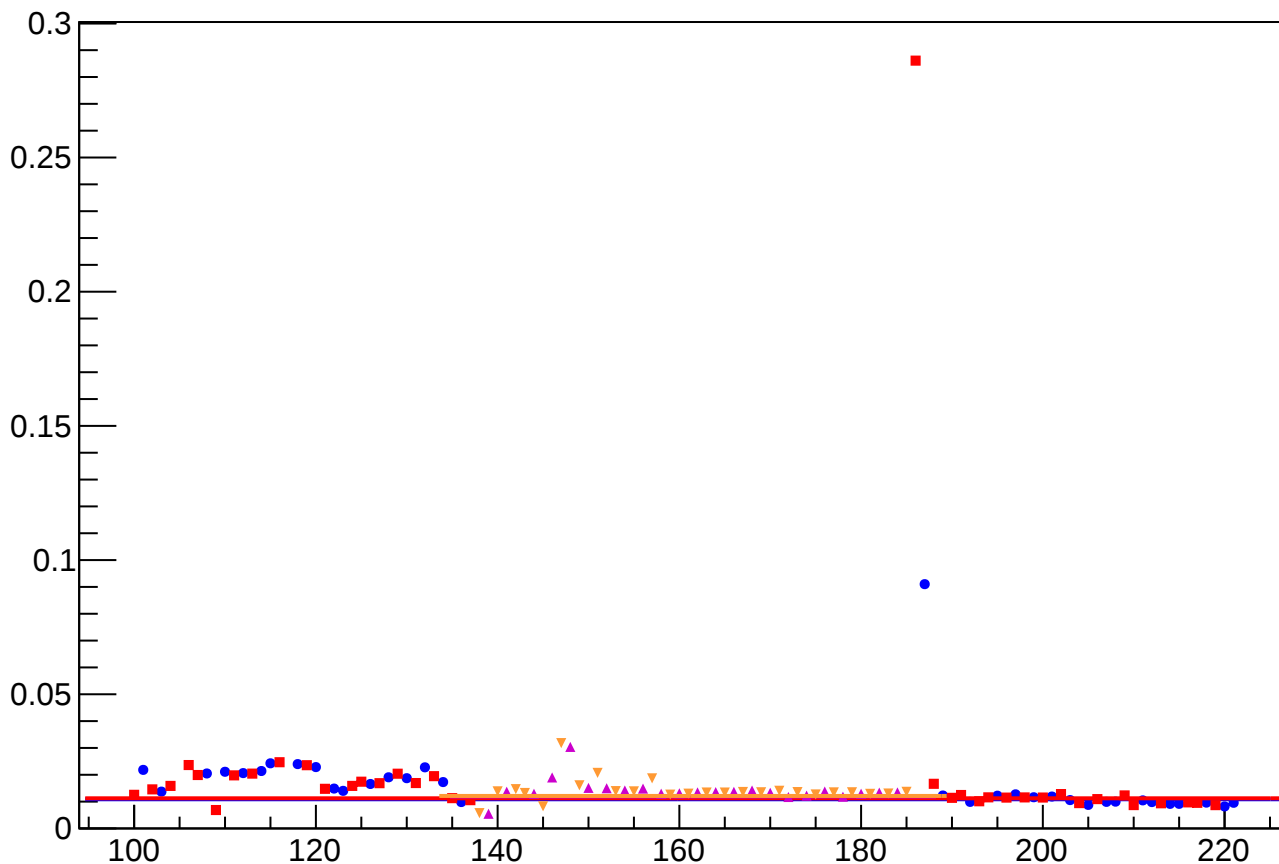
Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.173+/-0.000

χ^2/NDF : 282572612484.8

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2850140.7/34

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3227827.5/36

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

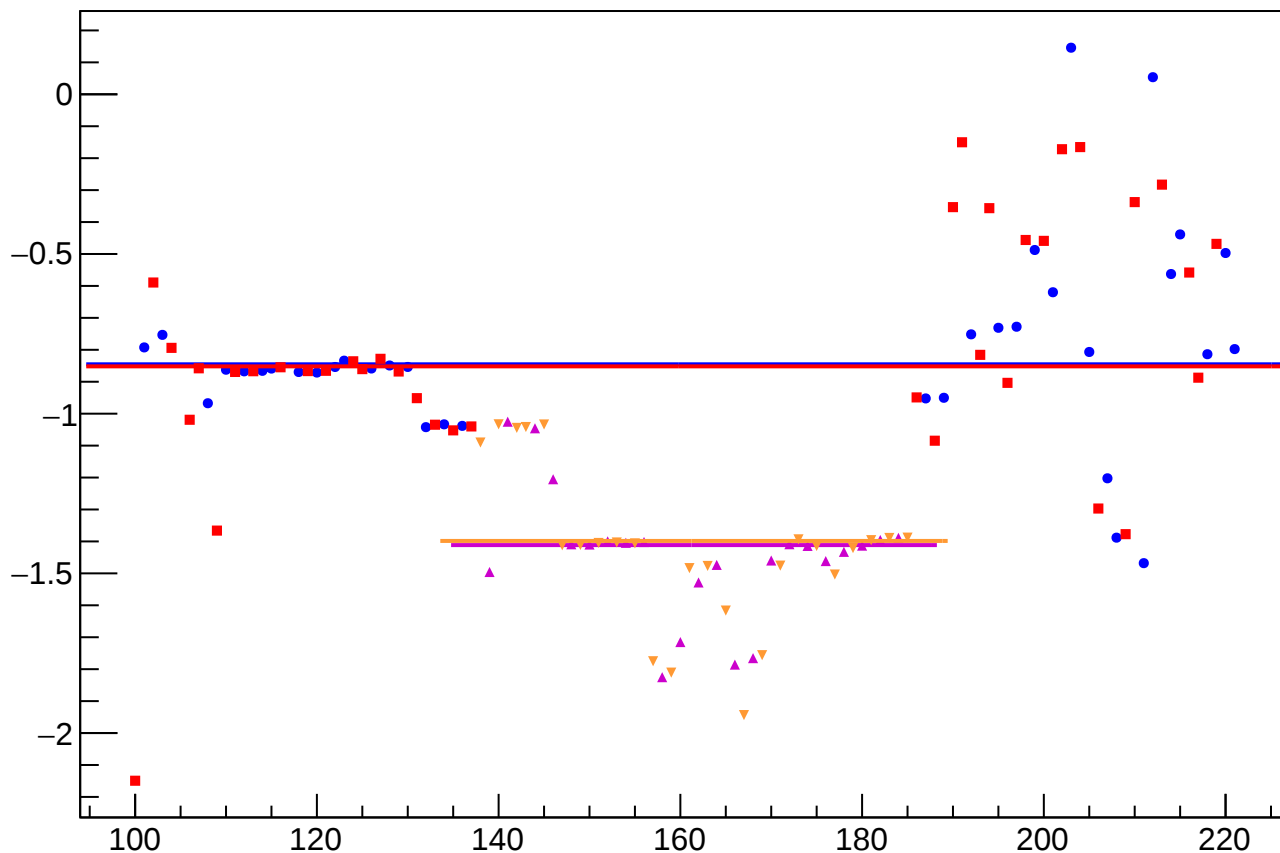
Right: 0.011+/-0.000 χ^2/NDF : 6095034.1/71

In: 0.011+/-0.000 χ^2/NDF :6089094.2/57

Out: 0.012+/-0.000 χ^2/NDF :6425984.4/61

All: 0.011+/-0.000 χ^2/NDF : 12538808.9/119

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.845 ± 0.000 χ^2/NDF : 398159152.7/34

Left Out: -1.398 ± 0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.852 ± 0.000 χ^2/NDF : 517950056.4/36

Left In: -1.412 ± 0.000 χ^2/NDF : 512629872.4/22

Left: -1.405 ± 0.000 χ^2/NDF : 1248268857.1/47

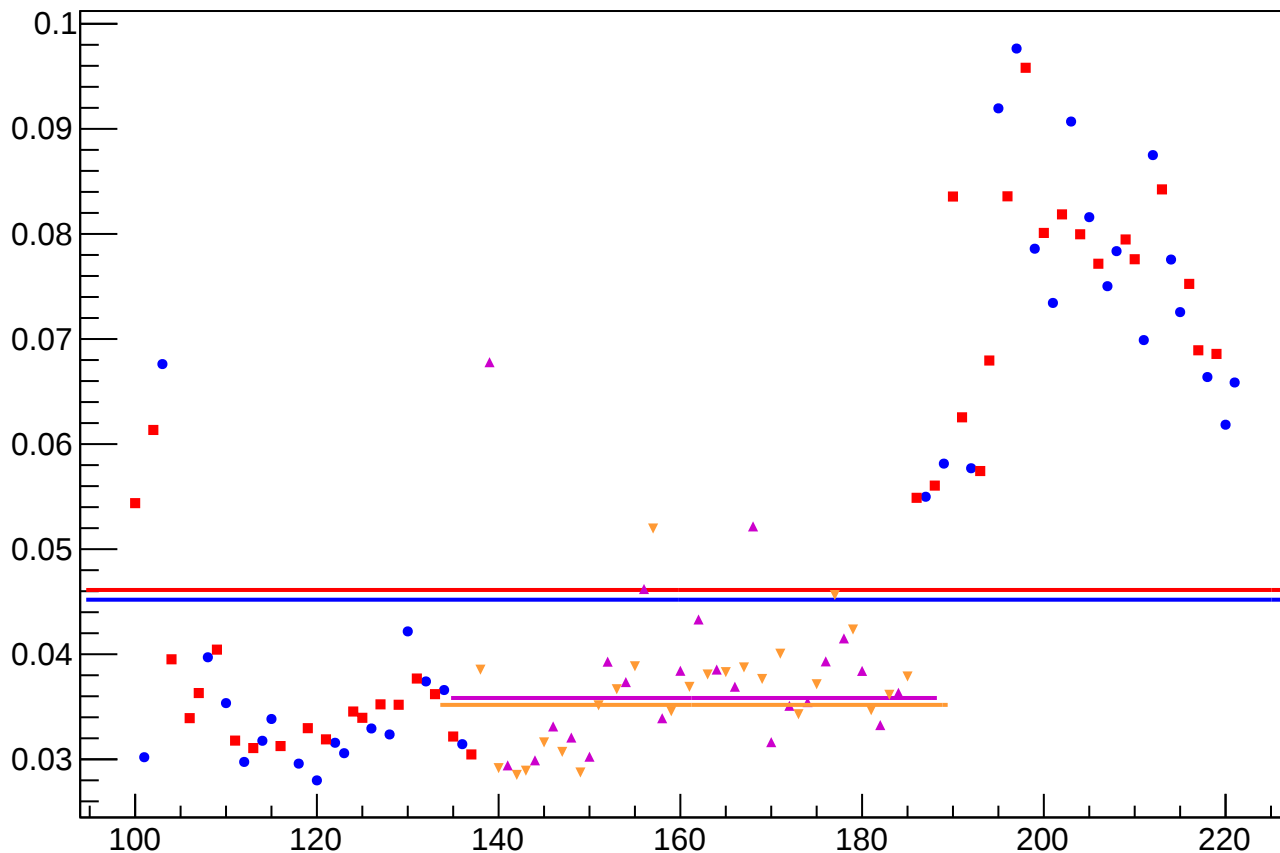
Right: -0.849 ± 0.000 χ^2/NDF : 916261830.2/71

In: -1.191 ± 0.000 χ^2/NDF : 2402653831.0/57

Out: -1.202 ± 0.000 χ^2/NDF : 2647453543.1/61

All: -1.197 ± 0.000 χ^2/NDF : 5051200782.5/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 5848702.4/34

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4917536.1/36

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

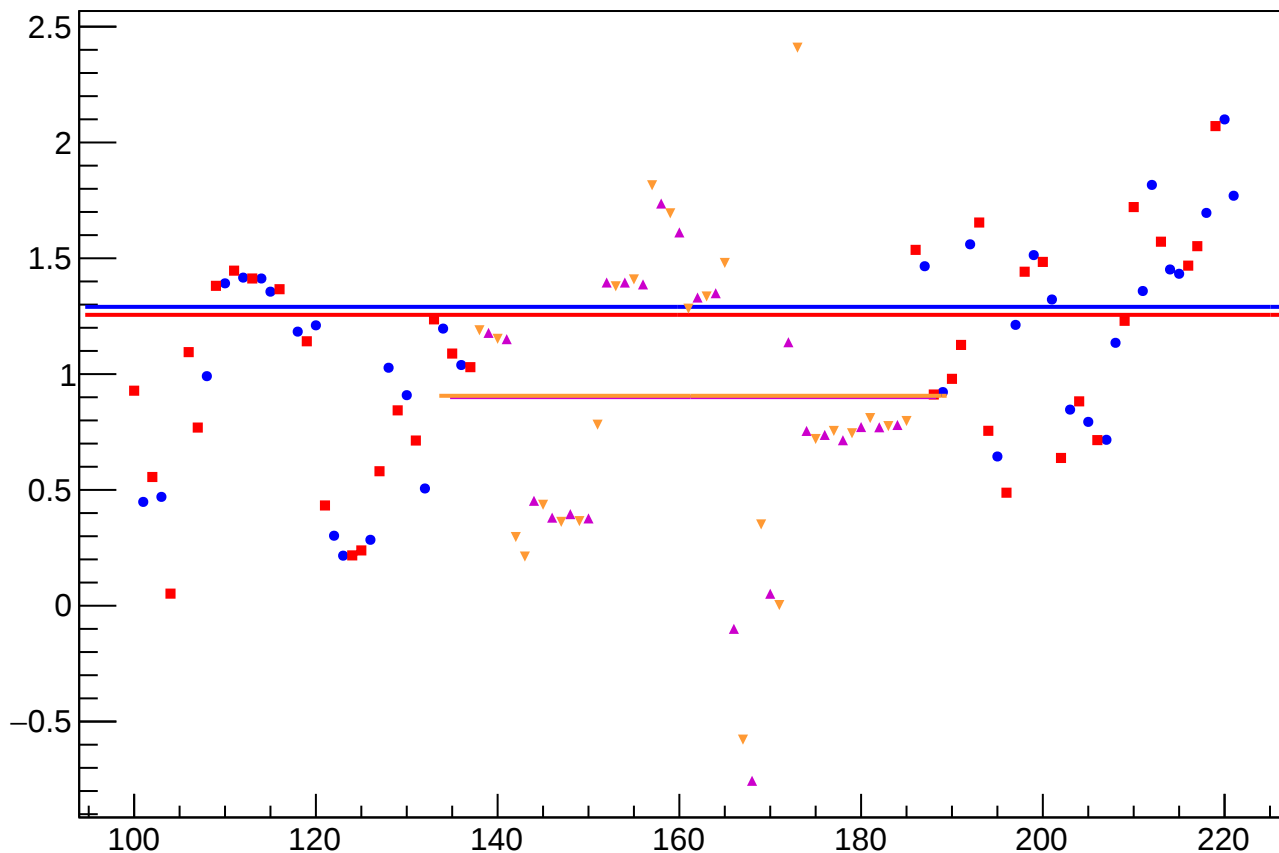
Right: 0.046 $\pm$ 0.000 χ^2 /NDF: 10772630.4/71

In: 0.039 $\pm$ 0.000 χ^2 /NDF:7554407.8/57

Out: 0.039 $\pm$ 0.000 χ^2 /NDF:6632283.2/61

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 14189285.3/119

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.290 $\pm$ 0.000

χ^2 /NDF: 80761472844.6/34

Left: 0.904 $\pm$ 0.000 χ^2 /NDF: 151044220035.9/47

Right: 1.275 $\pm$ 0.000 χ^2 /NDF: 152599123115.5/71

Left Out: 0.906 $\pm$ 0.000

χ^2 /NDF: 84108410196.2/24

In: 1.155 $\pm$ 0.000 χ^2 /NDF: 168270846158.1/57

Right Out: 1.256 $\pm$ 0.000

χ^2 /NDF: 71628392872.4/36

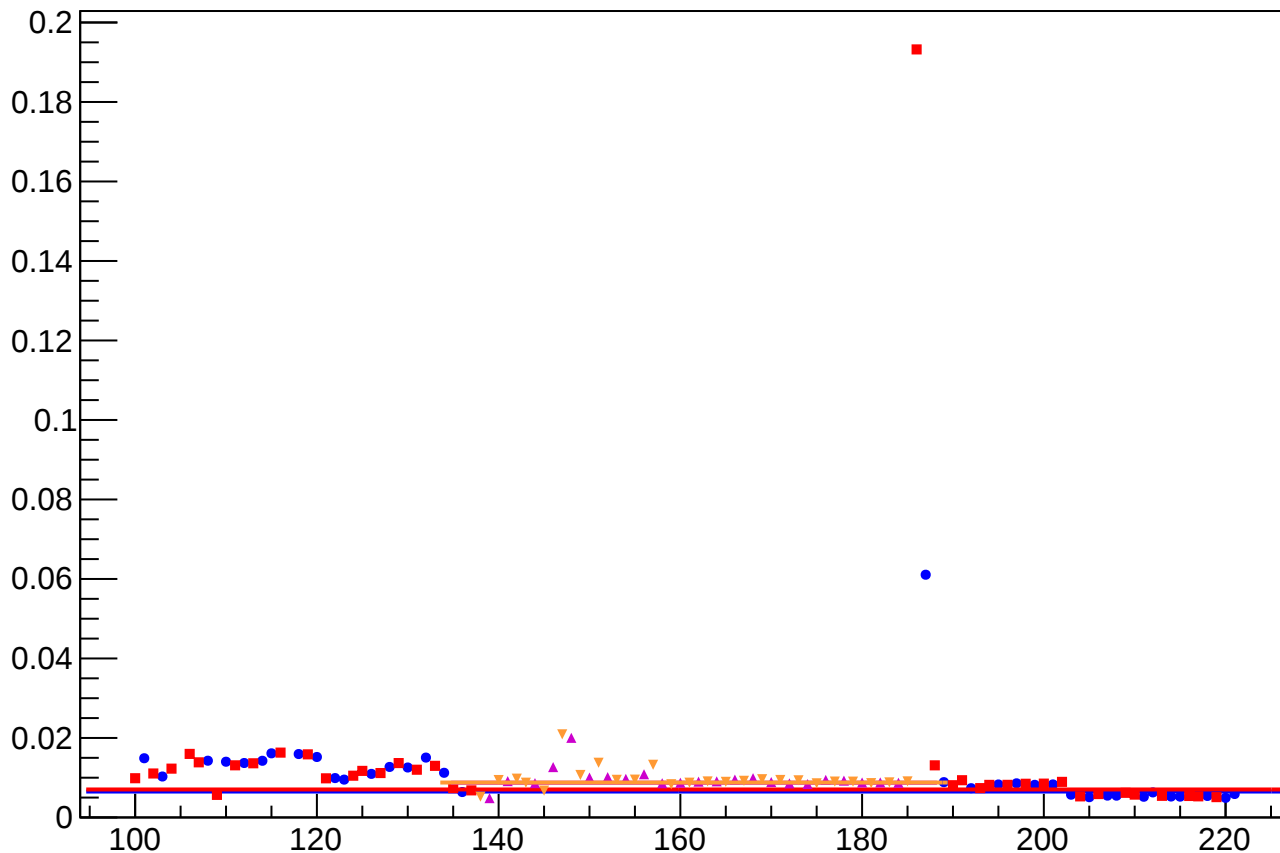
Out: 1.114 $\pm$ 0.000 χ^2 /NDF: 171625017946.1/61

Left In: 0.901 $\pm$ 0.000

χ^2 /NDF: 66932223067.8/22

All: 1.135 $\pm$ 0.000 χ^2 /NDF: 340362530548.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4003925.6/34

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4326799.0/36

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

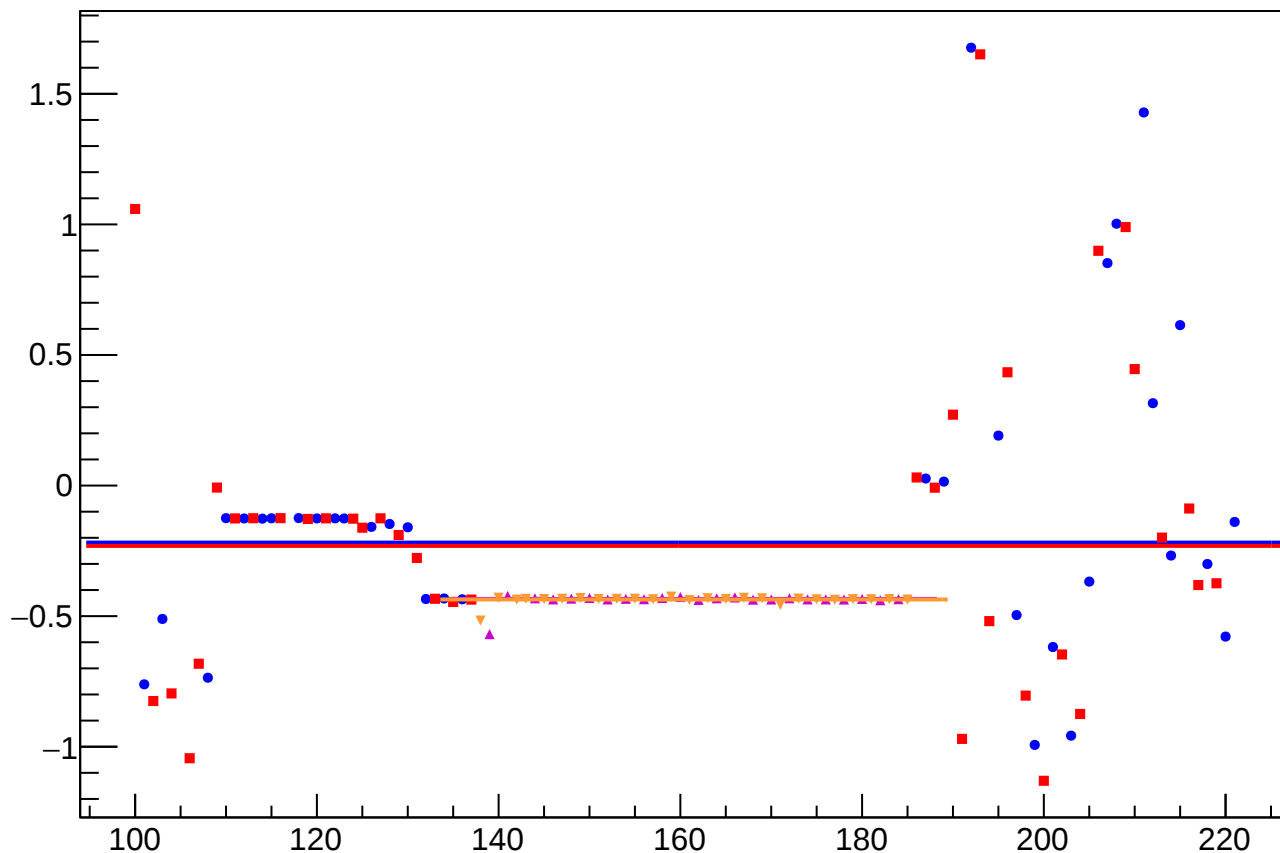
Right: 0.007+/-0.000 χ^2/NDF : 8425107.9/71

In: 0.007+/-0.000 χ^2/NDF :7002906.9/57

Out: 0.008+/-0.000 χ^2/NDF :6817749.8/61

All: 0.008+/-0.000 χ^2/NDF : 13937992.0/119

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.218 ± 0.000 χ^2/NDF : 5049930763.5/34

Left Out: -0.436 ± 0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.231 ± 0.000 χ^2/NDF : 3439646750.0/36

Left In: -0.434 ± 0.000 χ^2/NDF : 20164730.3/22

Left: -0.435 ± 0.000 χ^2/NDF : 49321098.5/47

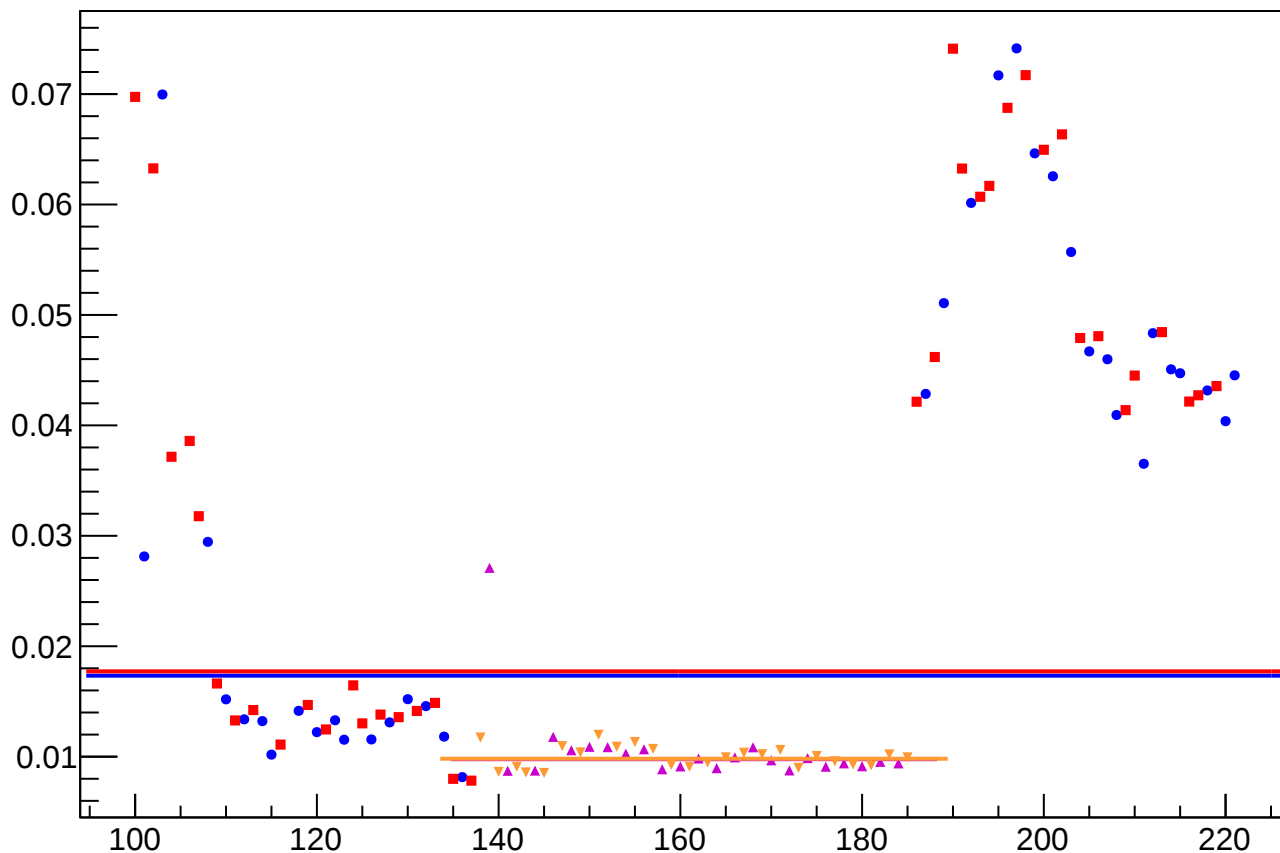
Right: -0.224 ± 0.000 χ^2/NDF : 8492367191.0/71

In: -0.392 ± 0.000 χ^2/NDF : 6452444216.7/57

Out: -0.400 ± 0.000 χ^2/NDF : 4664737091.4/61

All: -0.396 ± 0.000 χ^2/NDF : 11123628009.1/111

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 14318304.2/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:271172.3/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 13840087.9/36

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1058038.1/47

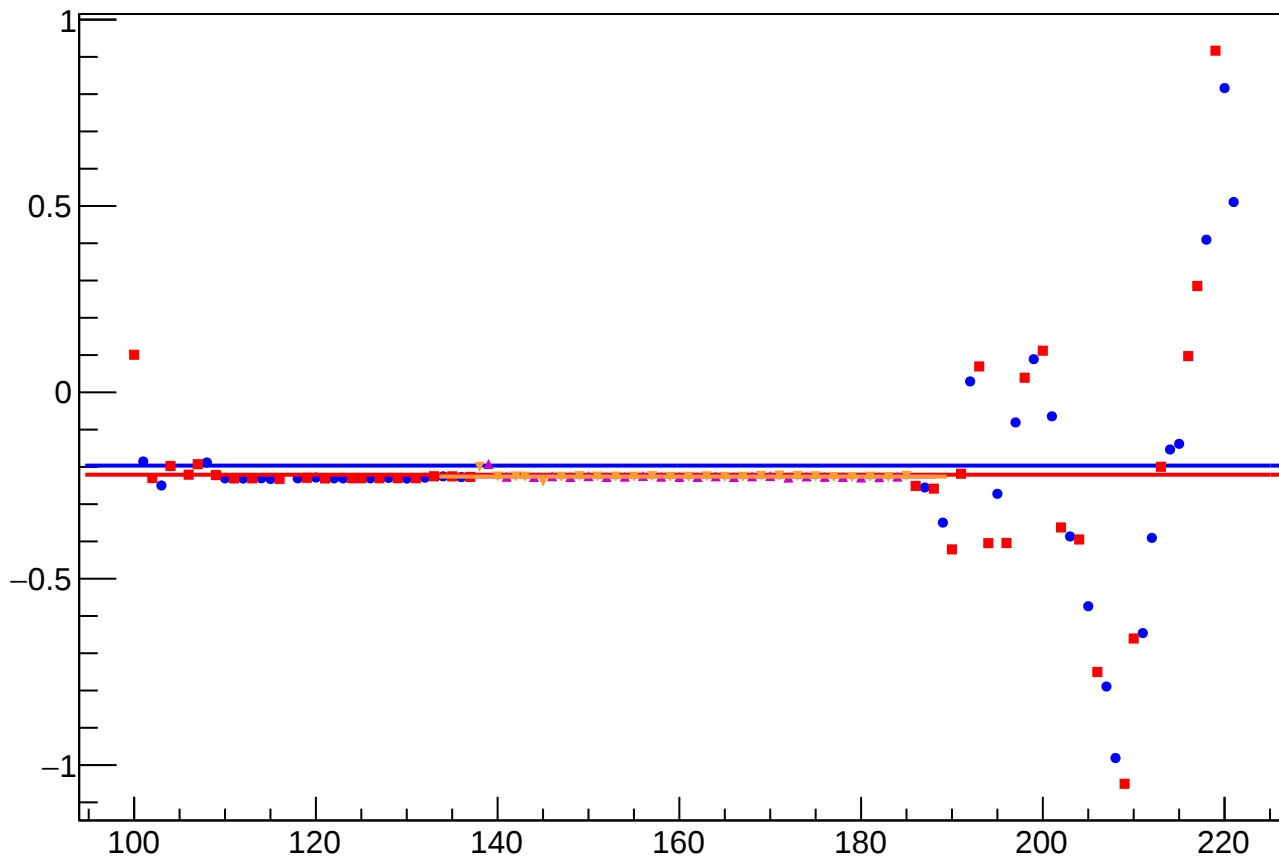
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 28163856.8/71

In: 0.011 $\pm$ 0.000 χ^2 /NDF:18507094.3/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:17665913.8/61

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 36173356.2/119

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.197+/-0.000 χ^2/NDF : 53949360474.5/34

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.221+/-0.000 χ^2/NDF : 46860873277.3/36

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

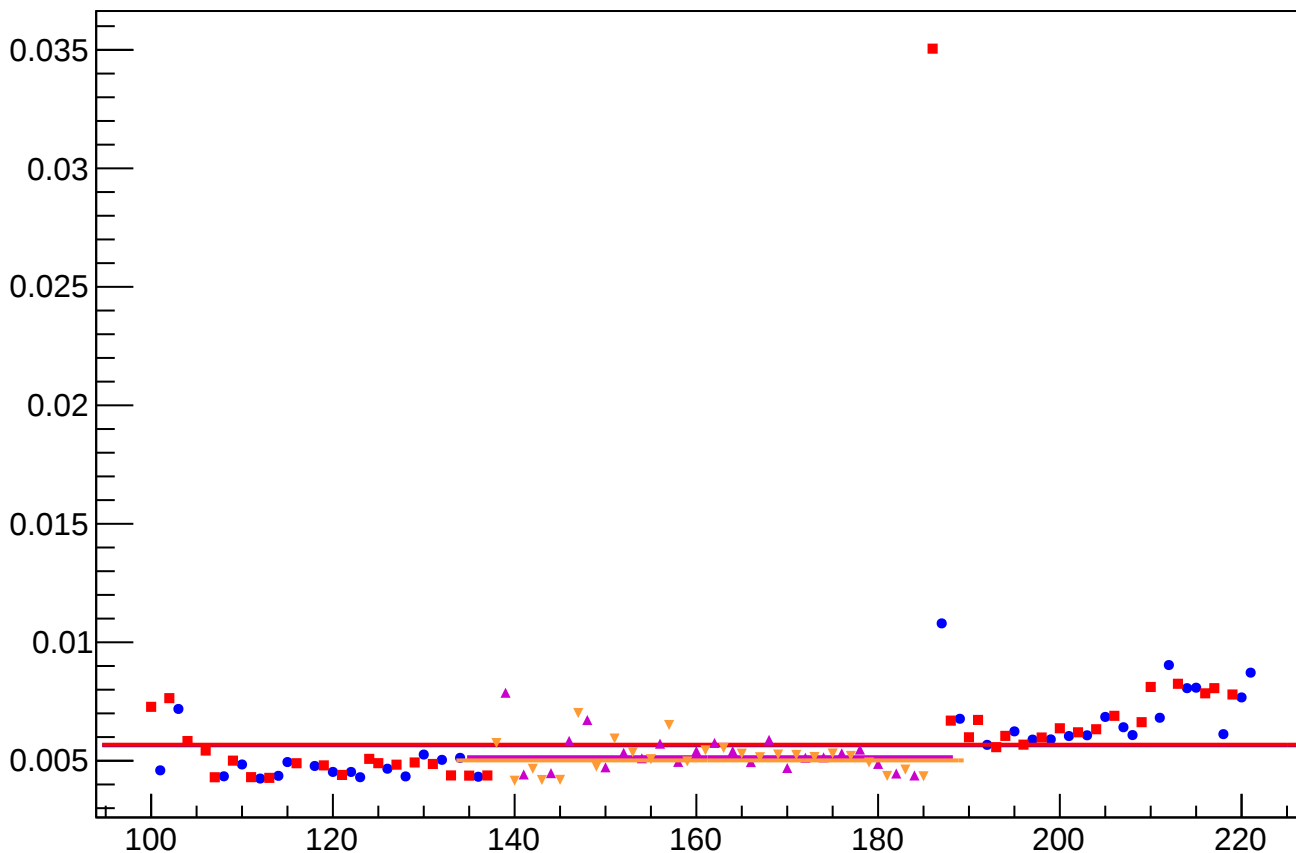
Right: -0.209+/-0.000 χ^2/NDF : 100973634359.0/71

In: -0.212+/-0.000 χ^2/NDF : 54211910823.2/57

Out: -0.224+/-0.000 χ^2/NDF : 46889678260.5/61

All: -0.218+/-0.000 χ^2/NDF : 101186016996.7

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1711984.0/34

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1980348.1/36

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

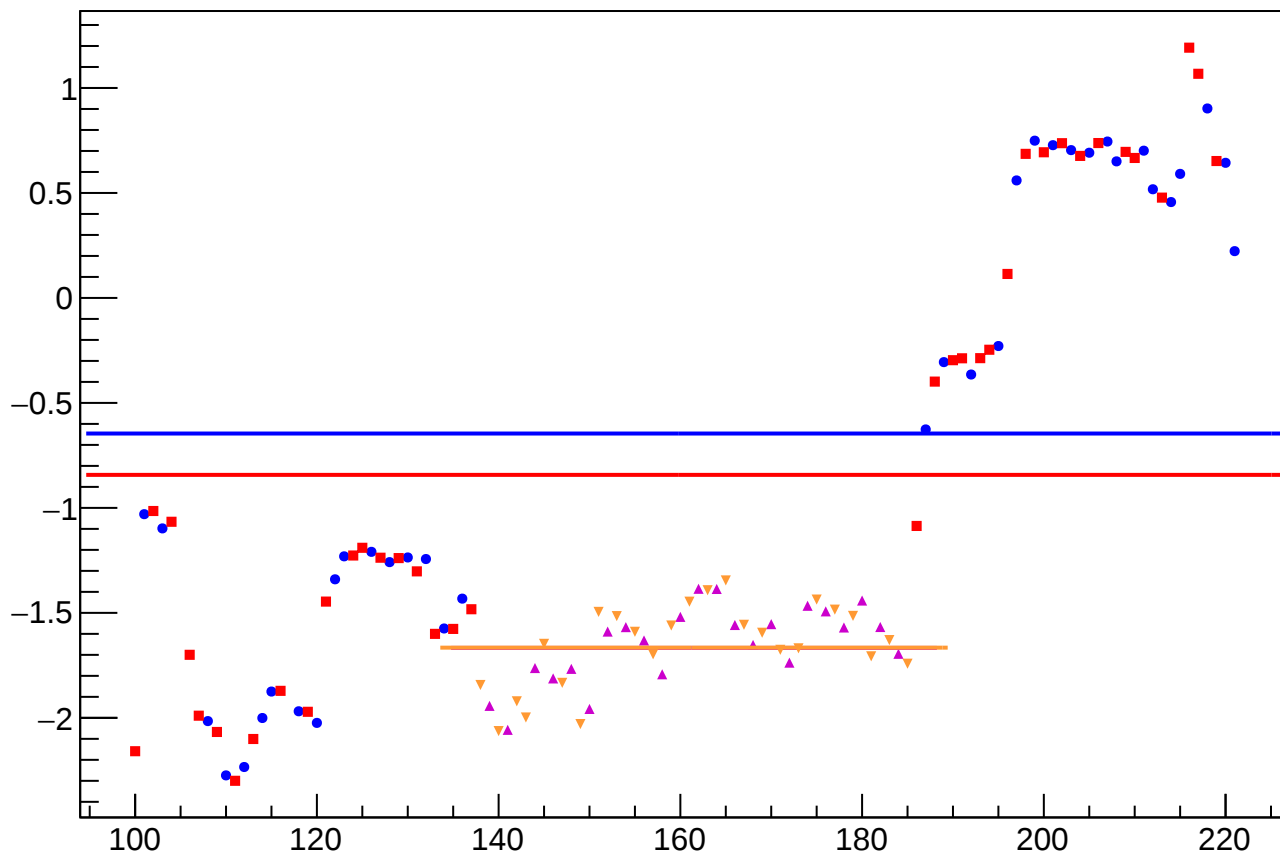
Right: 0.006+/-0.000 χ^2/NDF : 3692595.3/71

In: 0.005+/-0.000 χ^2/NDF : 2365878.6/57

Out: 0.005+/-0.000 χ^2/NDF : 2777433.4/61

All: 0.005+/-0.000 χ^2/NDF : 5151272.0/119

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.646+/-0.000

χ^2/NDF : 268941335083.5/34

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.749+/-0.000

χ^2/NDF : 576137070388.4/71

Right Out: -0.843+/-0.000

χ^2/NDF : 302214633765.0/36

In: -1.286+/-0.000

χ^2/NDF : 444324085484.0/57

Out: -1.354+/-0.000

χ^2/NDF : 433762293181.7/61

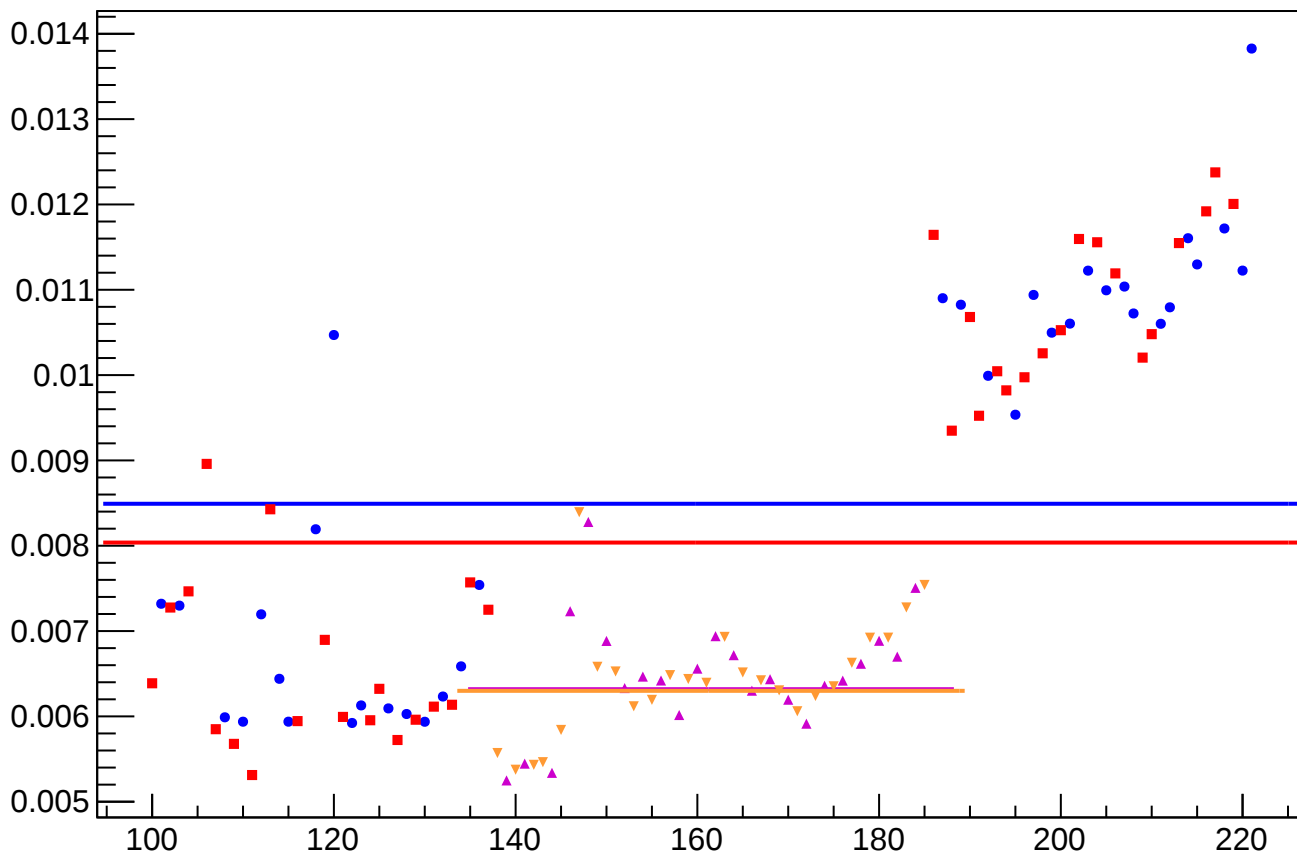
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.322+/-0.000

χ^2/NDF : 879663495909.1

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2580685.5/34

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2775244.2/36

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

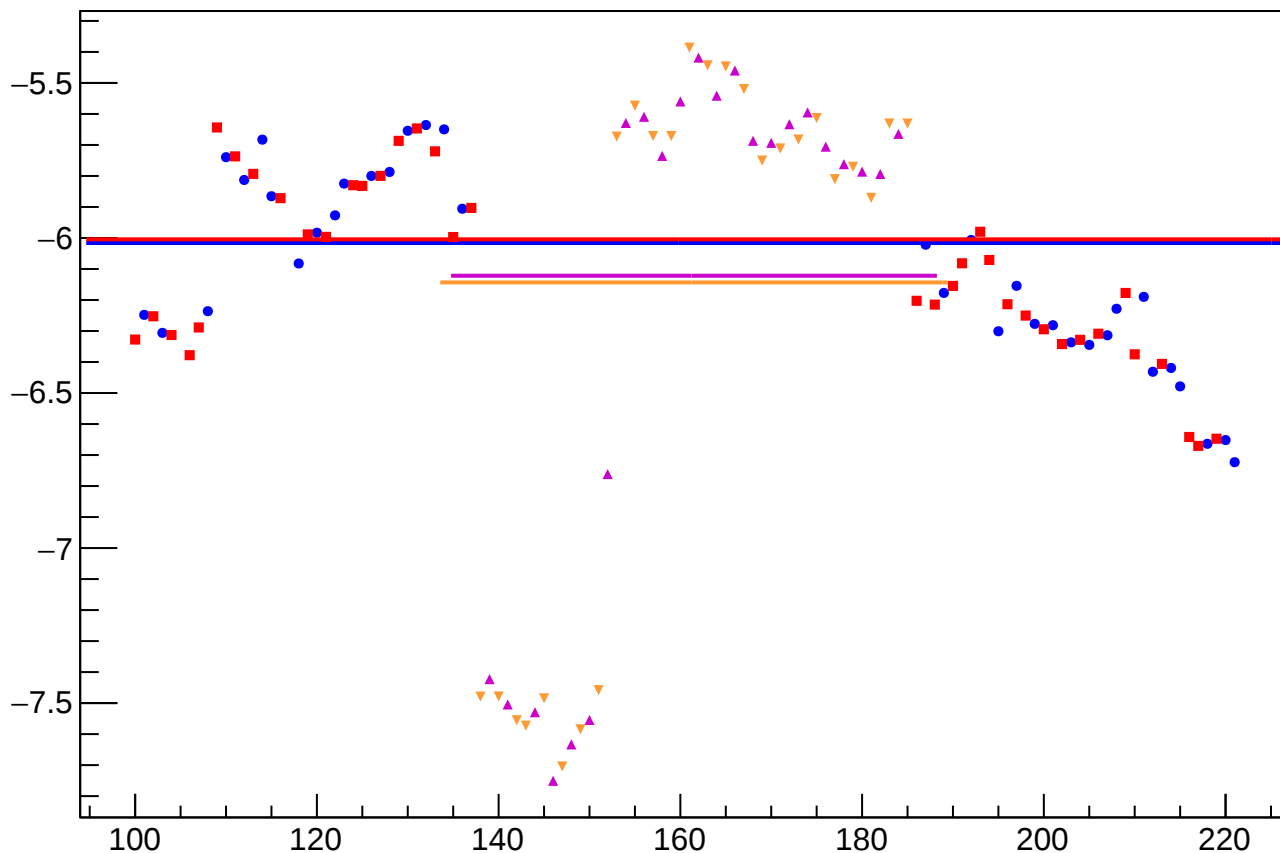
Right: 0.008+/-0.000 χ^2/NDF : 5409040.6/71

In: 0.007+/-0.000 χ^2/NDF :4371388.0/57

Out: 0.007+/-0.000 χ^2/NDF :4097450.0/61

All: 0.007+/-0.000 χ^2/NDF : 8488990.7/119

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.016+/-0.000 χ^2/NDF : 22720381230.9/34

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -6.004+/-0.000 χ^2/NDF : 22171013094.8/36

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

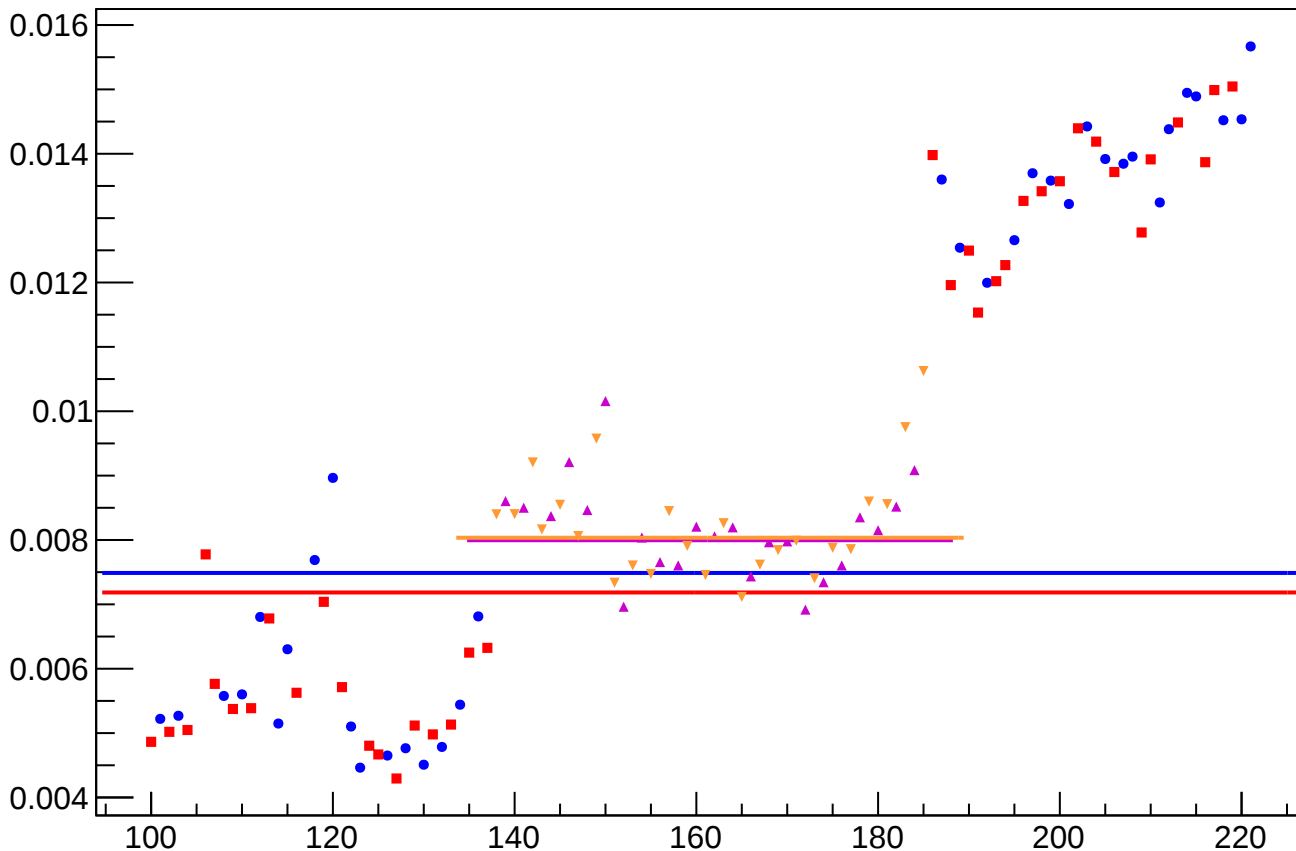
Right: -6.010+/-0.000 χ^2/NDF : 44911196939.3/71

In: -6.067+/-0.000 χ^2/NDF : 184068551301.6/57

Out: -6.070+/-0.000 χ^2/NDF : 210526296354.6/61

All: -6.068+/-0.000 χ^2/NDF : 394596833397.0

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7567430.4/34

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6980077.6/36

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

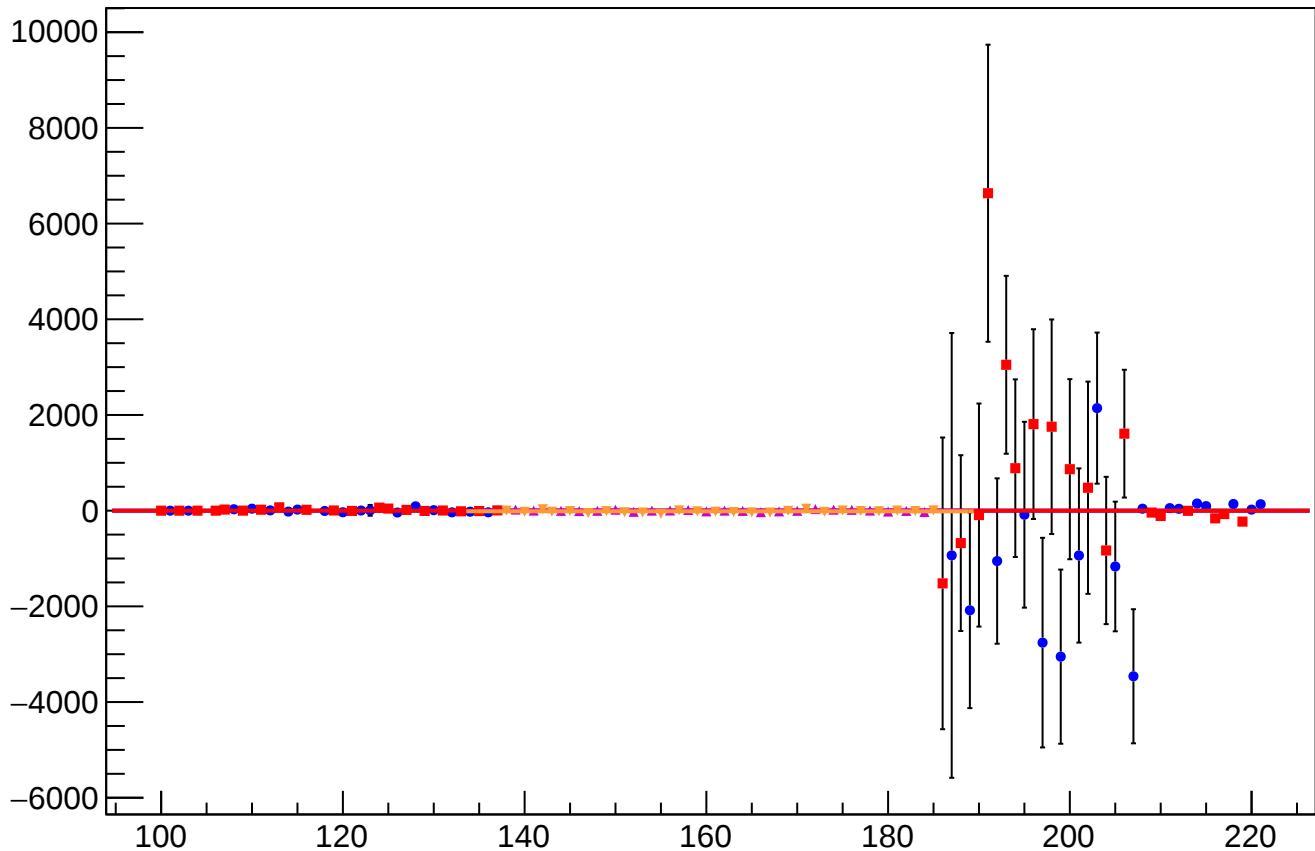
Right: 0.007+/-0.000 χ^2/NDF : 14573164.2/71

In: 0.008+/-0.000 χ^2/NDF :7854323.3/57

Out: 0.008+/-0.000 χ^2/NDF :7383194.2/61

All: 0.008+/-0.000 χ^2/NDF : 15249108.0/119

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 66.2/34$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 63.4/36$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

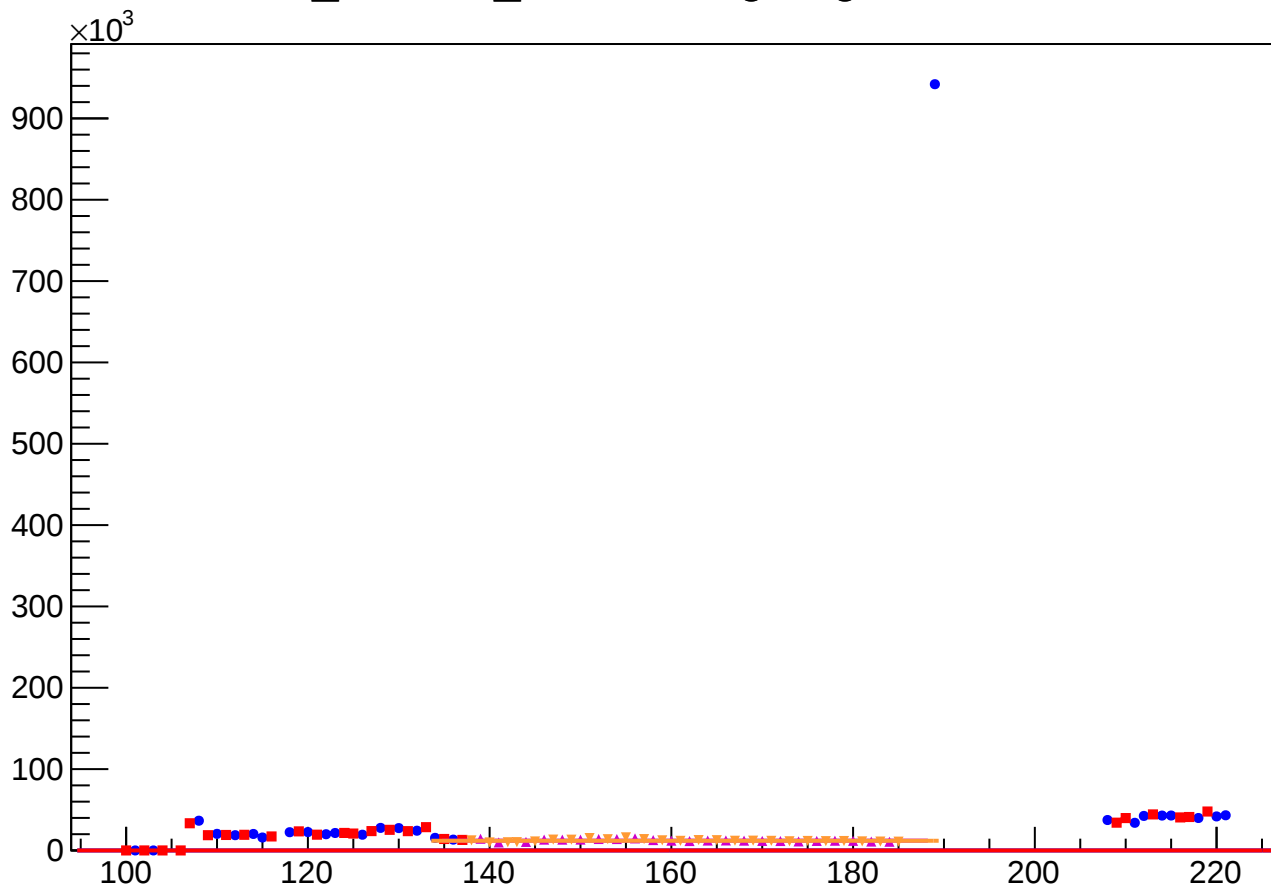
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 130.1/71$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 94.9/57$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 145.1/61$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 240.5/119$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.686+/-0.012 χ^2/NDF : 23184000.5/25

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.339+/-0.011 χ^2/NDF : 19897528.6/24

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

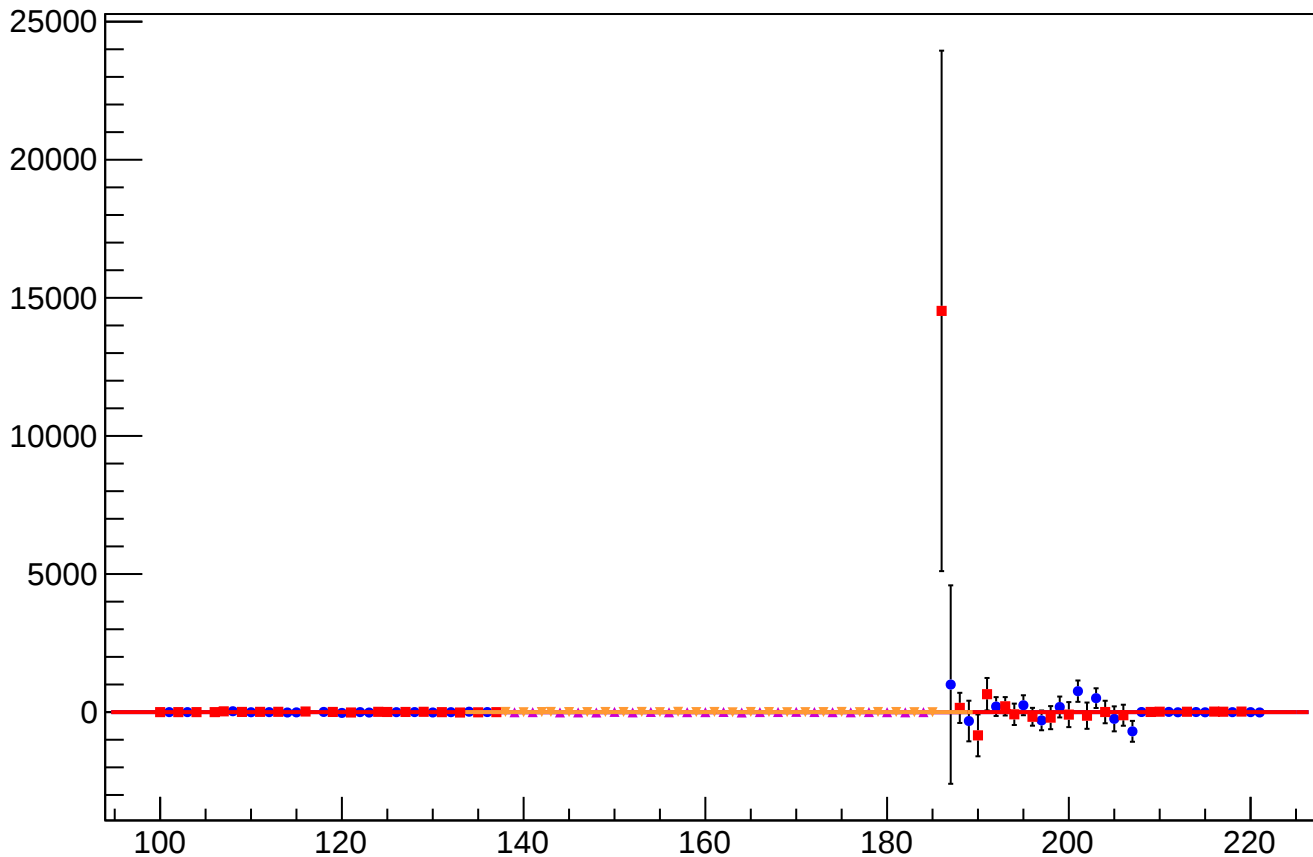
Right: 18.499+/-0.008 χ^2/NDF : 43081959.6/50

In: 19.114+/-0.012 χ^2/NDF : 57934234.0/48

Out: 18.732+/-0.011 χ^2/NDF : 56539799.9/49

All: 18.909+/-0.008 χ^2/NDF : 114474558.2/98

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 34.3/34

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 59.3/36

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

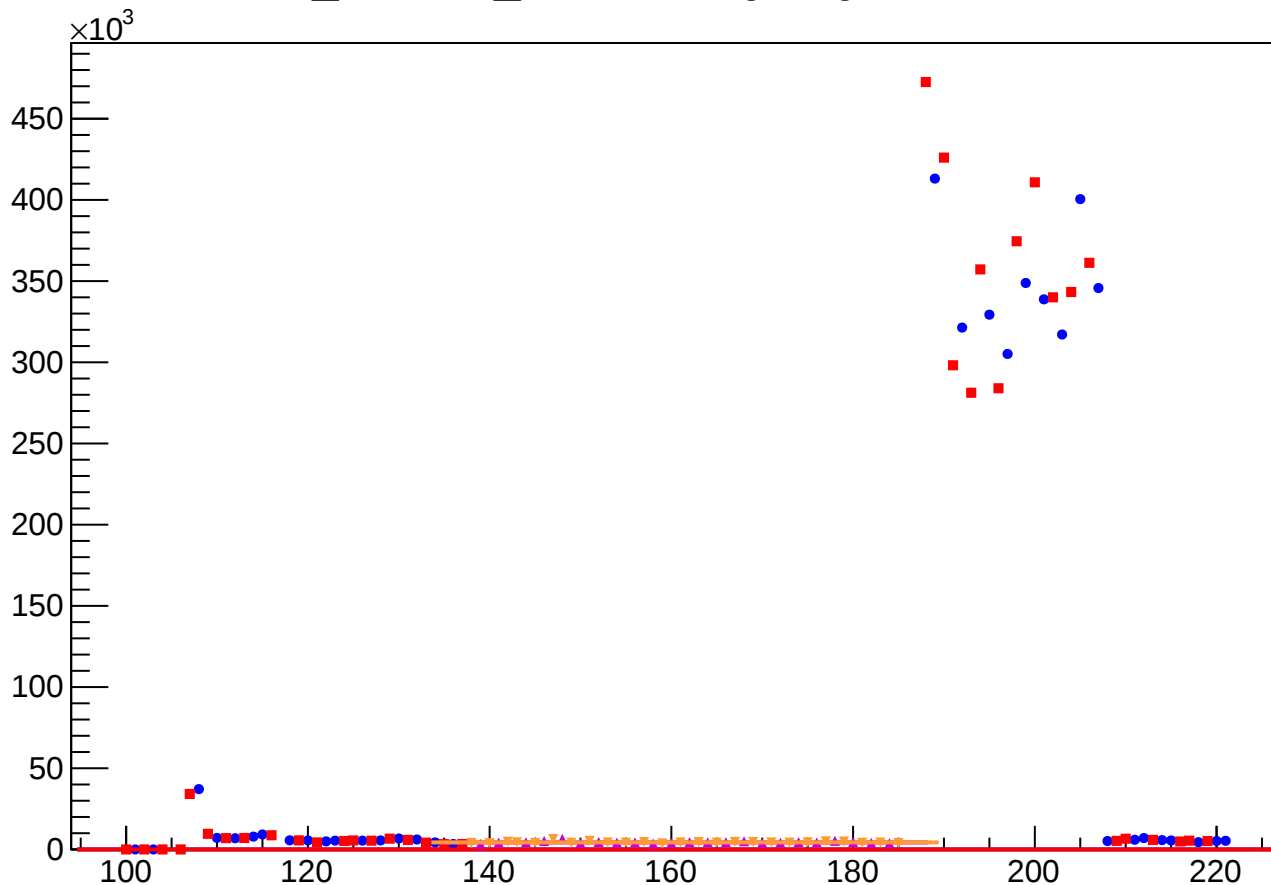
Right: -0.007 ± 0.006 χ^2/NDF : 95.0/71

In: 0.001 ± 0.009 χ^2/NDF : 70.6/57

Out: -0.014 ± 0.009 χ^2/NDF : 80.0/61

All: -0.007 ± 0.006 χ^2/NDF : 151.9/119

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.033 ± 0.007 $\chi^2/\text{NDF}: 36576715.2/33$

Left Out: 4350.545 ± 0.722 $\chi^2/\text{NDF}: 384749.0/24$

Right Out: 9.915 ± 0.006 $\chi^2/\text{NDF}: 34667462.6/35$

Left In: 4314.568 ± 0.738 $\chi^2/\text{NDF}: 534594.3/22$

Left: 4332.940 ± 0.516 $\chi^2/\text{NDF}: 920558.3/47$

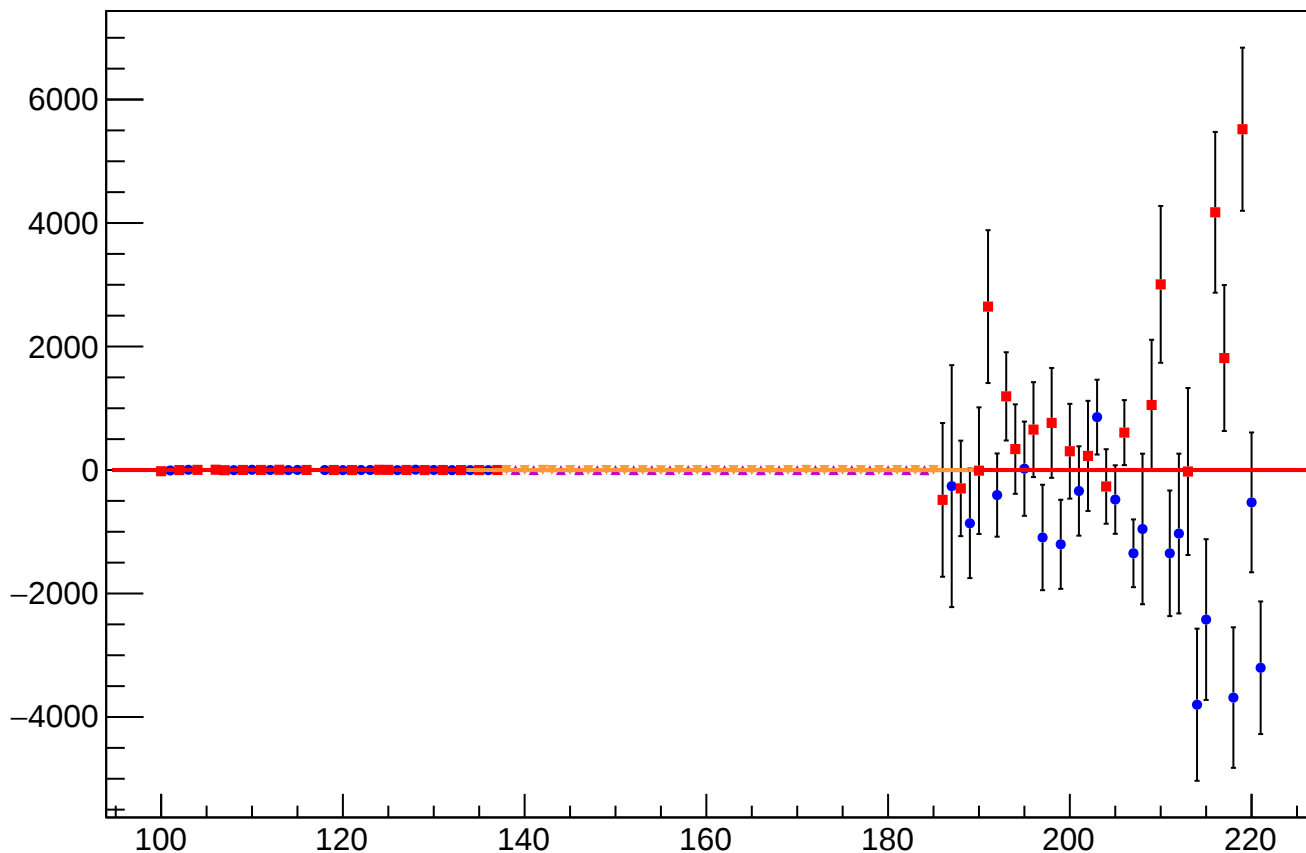
Right: 9.971 ± 0.004 $\chi^2/\text{NDF}: 71244352.1/69$

In: 10.368 ± 0.007 $\chi^2/\text{NDF}: 71171236.4/56$

Out: 10.227 ± 0.006 $\chi^2/\text{NDF}: 71196173.5/60$

All: 10.293 ± 0.004 $\chi^2/\text{NDF}: 142367660.2/119$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 χ^2/NDF : 72.8/34

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.765 ± 0.502 χ^2/NDF : 59.5/36

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

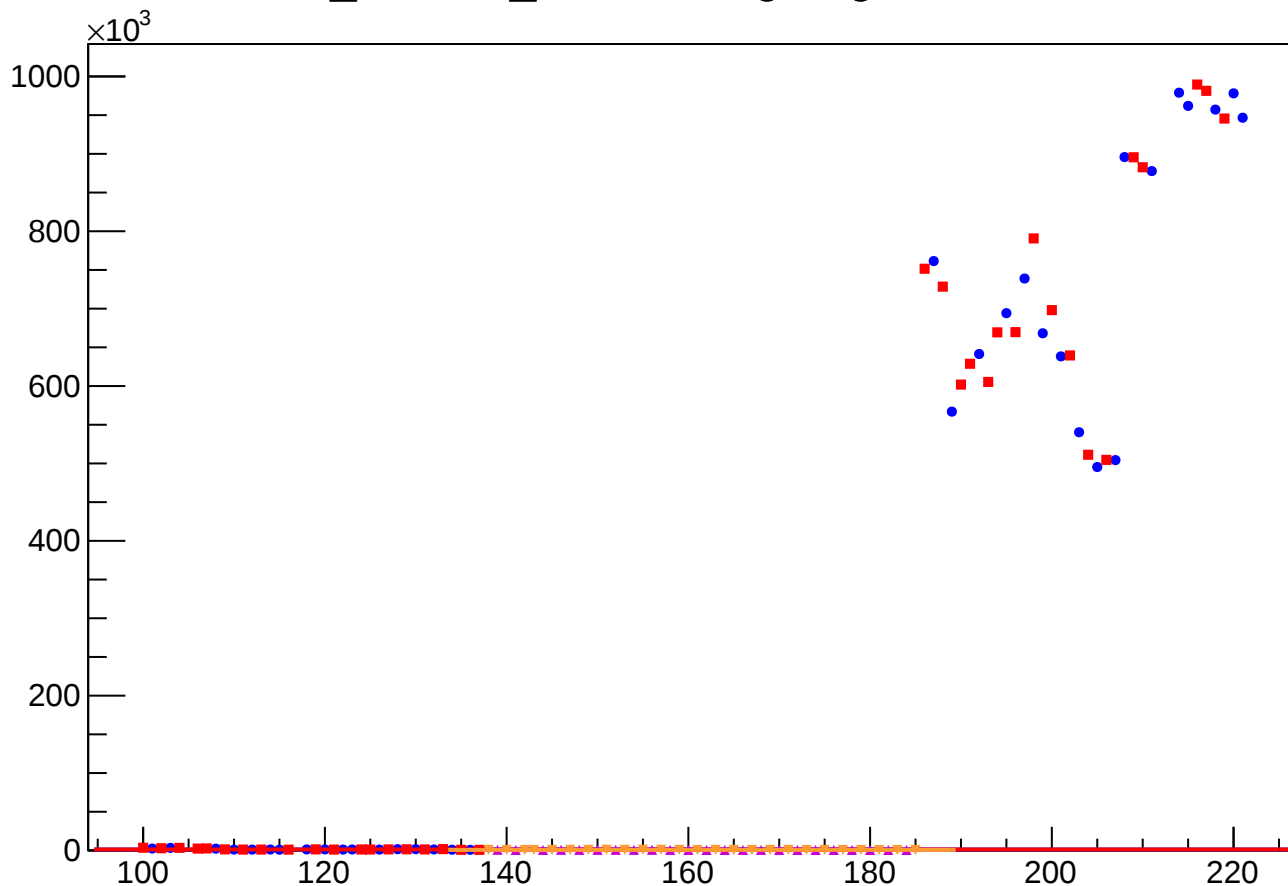
Right: 0.003 ± 0.349 χ^2/NDF : 136.7/71

In: -0.059 ± 0.161 χ^2/NDF : 104.0/57

Out: -0.626 ± 0.156 χ^2/NDF : 126.4/61

All: -0.350 ± 0.112 χ^2/NDF : 236.8/119

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.573+/-0.343 χ^2/NDF : 20399679.1/33

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.677+/-0.355 χ^2/NDF : 19391376.6/35

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

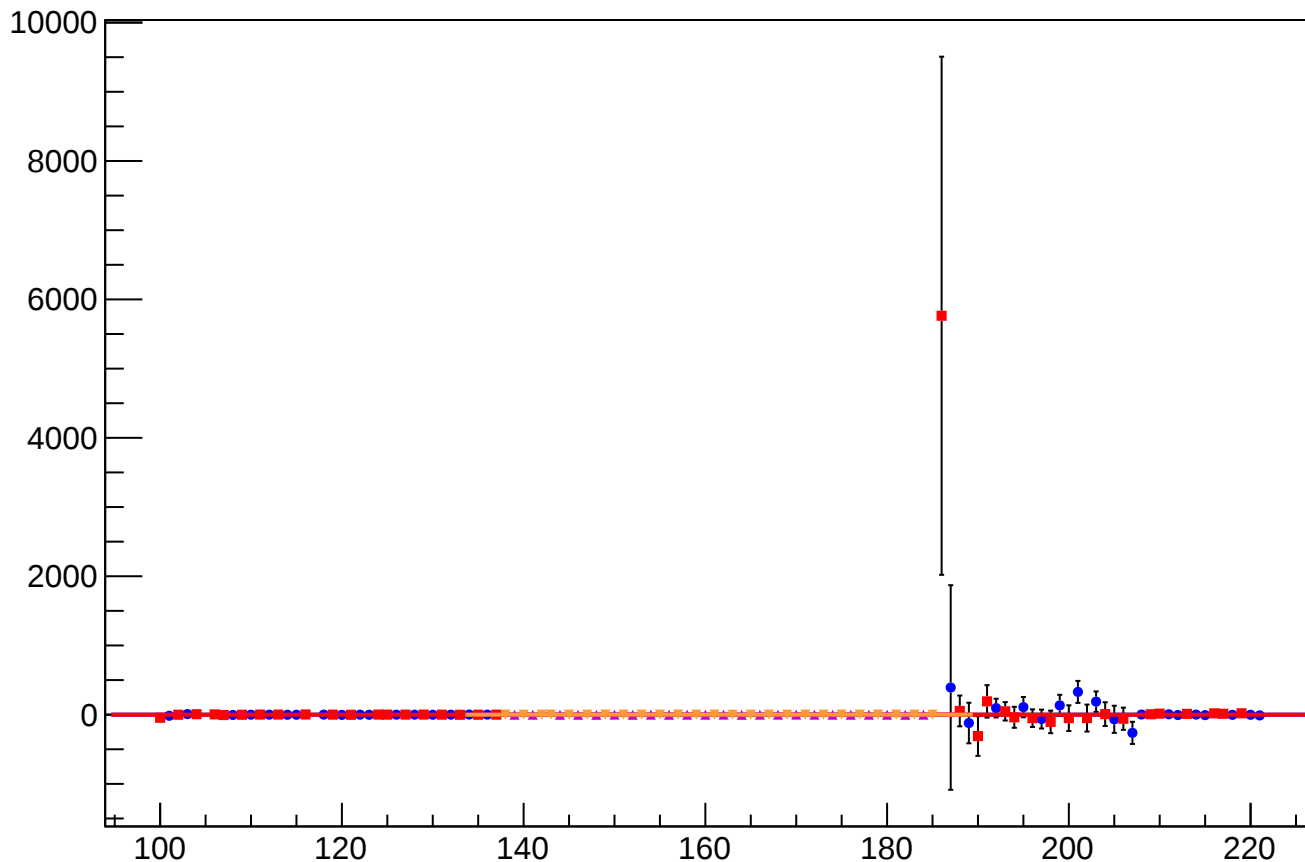
Right: 1208.653+/-0.247 χ^2/NDF : 39820778.9/69

In: 757.413+/-0.114 χ^2/NDF : 22344150.0/56

Out: 754.177+/-0.110 χ^2/NDF : 21966485.7/60

All: 755.750+/-0.079 χ^2/NDF : 44311053.1/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.119 ± 0.267 χ^2/NDF : 41.9/34

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.027 ± 0.263 χ^2/NDF : 76.1/36

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

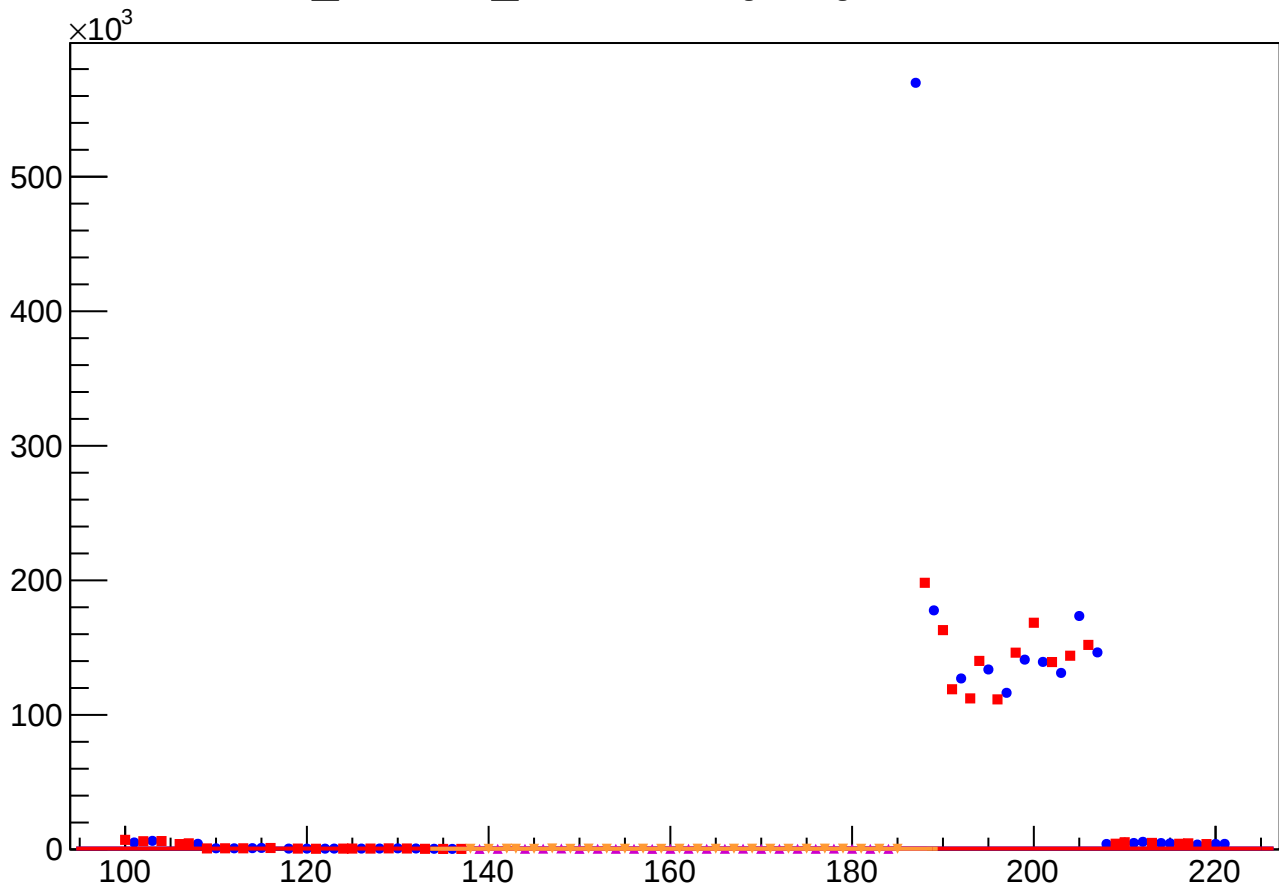
Right: -0.072 ± 0.187 χ^2/NDF : 118.1/71

In: -0.116 ± 0.114 χ^2/NDF : 76.9/57

Out: 0.189 ± 0.111 χ^2/NDF : 94.5/61

All: 0.040 ± 0.079 χ^2/NDF : 175.1/119

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 697.006 $\pm$ 0.189 χ^2 /NDF: 25765839.7/34

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF: 331573.1/24

Right Out: 661.976 $\pm$ 0.186 χ^2 /NDF: 24839061.1/35

Left In: 519.909 $\pm$ 0.089 χ^2 /NDF: 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2 /NDF: 776728.3/47

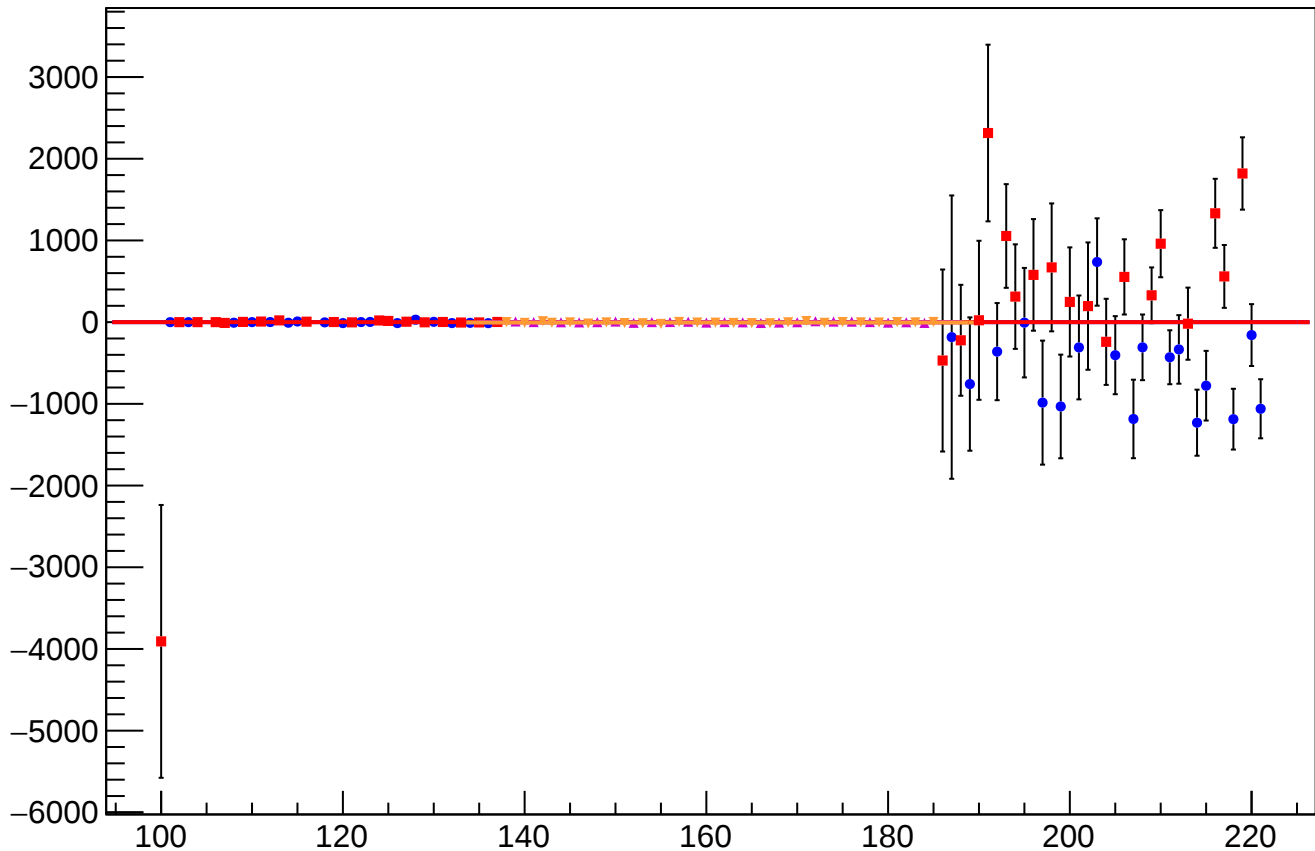
Right: 679.185 $\pm$ 0.133 χ^2 /NDF: 50622355.7/70

In: 551.866 $\pm$ 0.080 χ^2 /NDF: 26929284.3/57

Out: 547.318 $\pm$ 0.079 χ^2 /NDF: 25633949.6/60

All: 549.539 $\pm$ 0.056 χ^2 /NDF: 52564872.8/117

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 64.6/34

Left Out: -4.474 $\pm$ 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 63.3/36

Left In: 0.193 $\pm$ 0.990 χ^2/NDF : 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2/NDF : 99.0/47

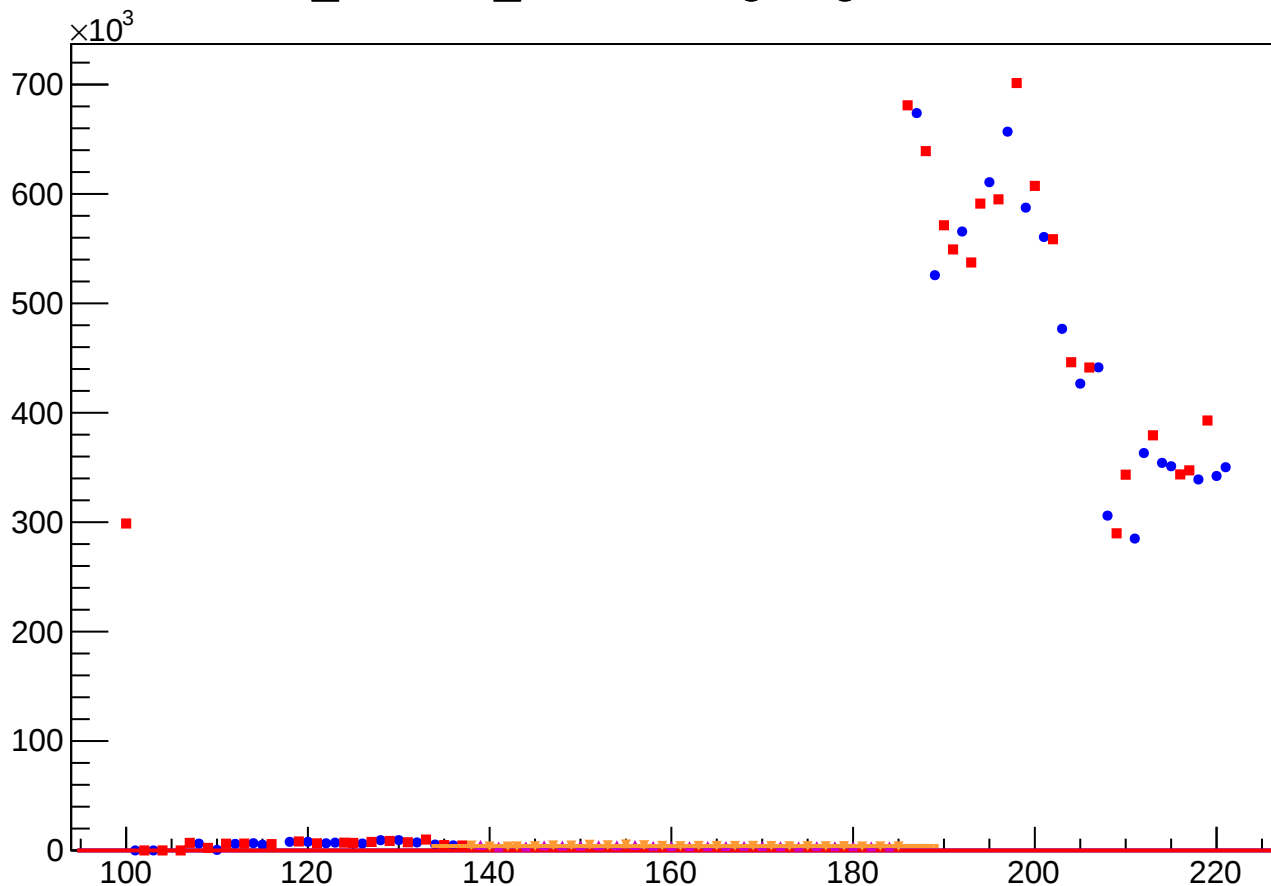
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 130.8/71

In: -0.022 $\pm$ 0.021 χ^2/NDF : 93.9/57

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 143.7/61

All: 0.003 $\pm$ 0.014 χ^2/NDF : 240.2/119

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.349+/-0.015 χ^2/NDF : 36776160.9/34

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.278+/-0.014 χ^2/NDF : 35531892.1/36

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

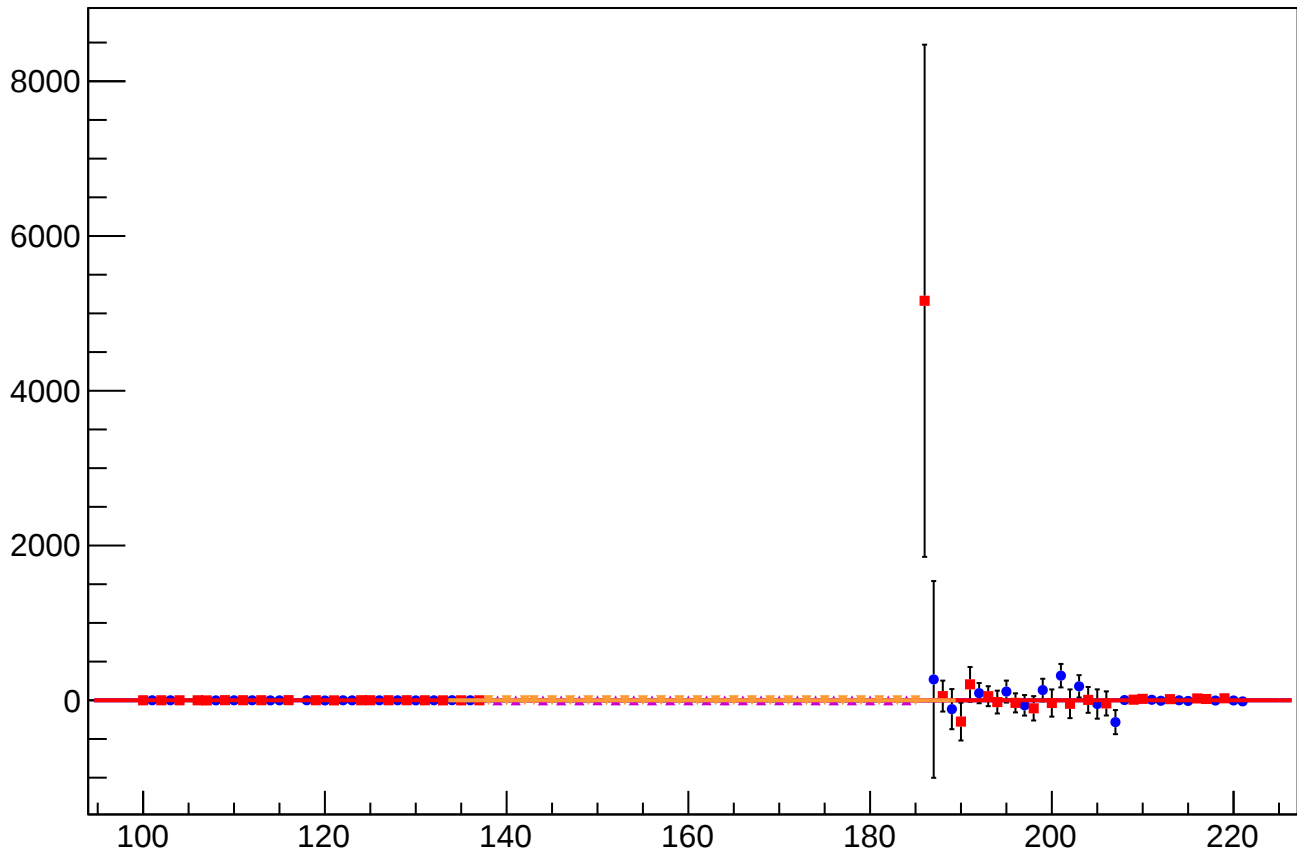
Right: 17.311+/-0.010 χ^2/NDF : 72308065.4/71

In: 19.155+/-0.015 χ^2/NDF : 71345181.1/57

Out: 19.015+/-0.014 χ^2/NDF : 71984700.6/61

All: 19.081+/-0.010 χ^2/NDF : 143329929.5/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 37.8/34

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 78.1/36

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

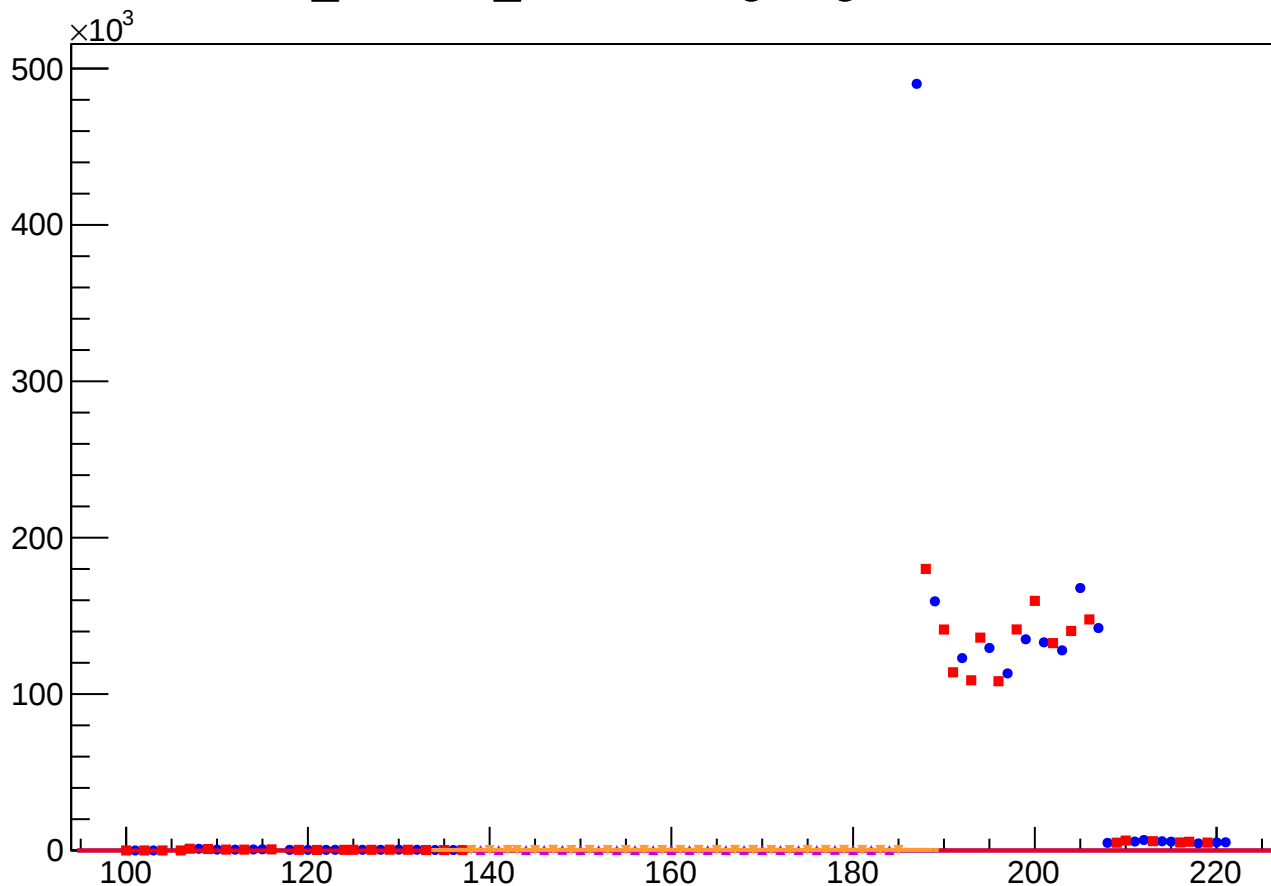
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 116.0/71

In: 0.000 $\pm$ 0.002 χ^2 /NDF:73.5/57

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:98.8/61

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 172.5/119

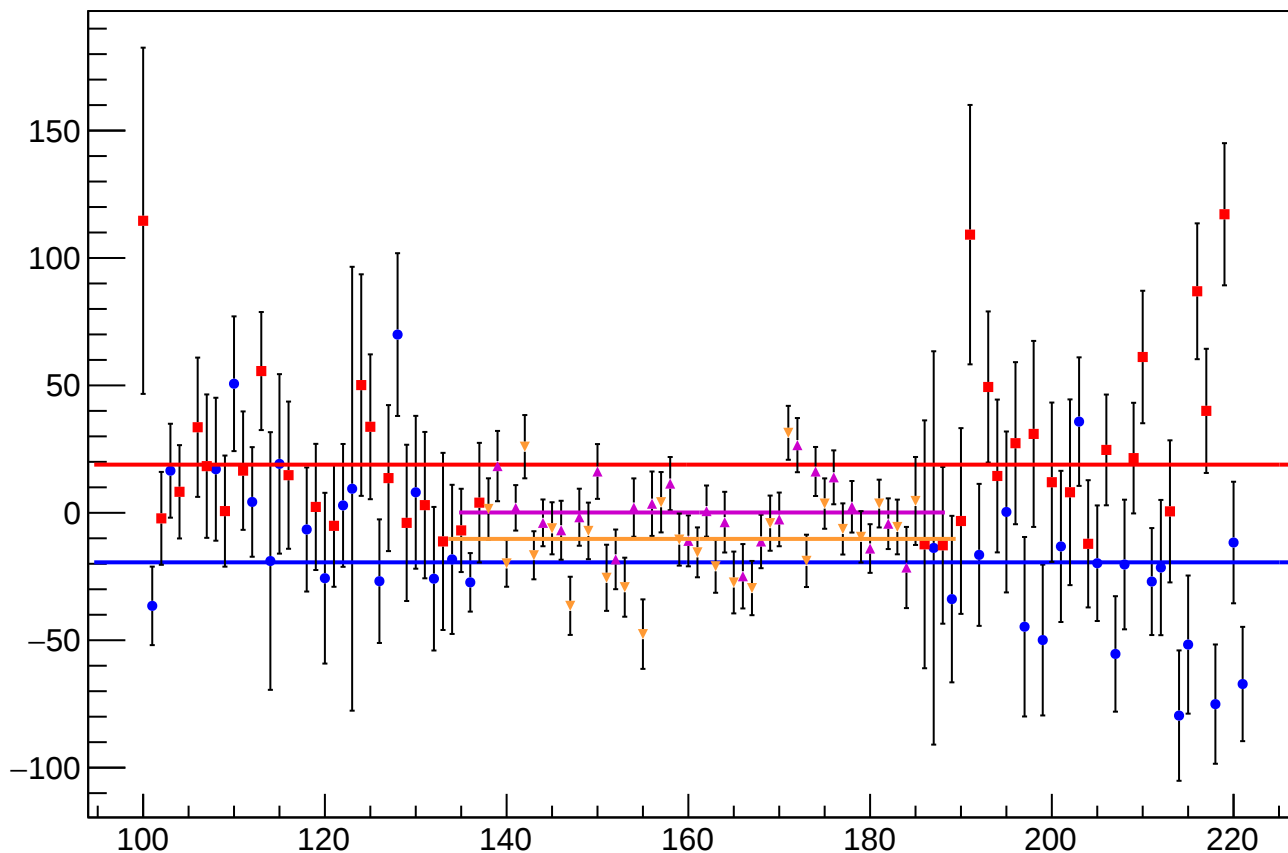
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.703 $\pm$ 0.001 χ^2 /NDF: 36982233.4/34
 Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24
 Right Out: 1.731 $\pm$ 0.001 χ^2 /NDF: 34469594.3/35
 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: 1.718 $\pm$ 0.001 χ^2 /NDF: 71452031.1/70
 In: 1.918 $\pm$ 0.001 χ^2 /NDF: 71384683.7/57
 Out: 1.940 $\pm$ 0.001 χ^2 /NDF: 70776726.9/60
 All: 1.930 $\pm$ 0.001 χ^2 /NDF: 142161530.3/118

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -19.429 $\pm$ 4.185 χ^2/NDF : 53.7/34

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 18.908 $\pm$ 4.375 χ^2/NDF : 44.7/36

Left In: 0.130 $\pm$ 2.242 χ^2/NDF : 29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

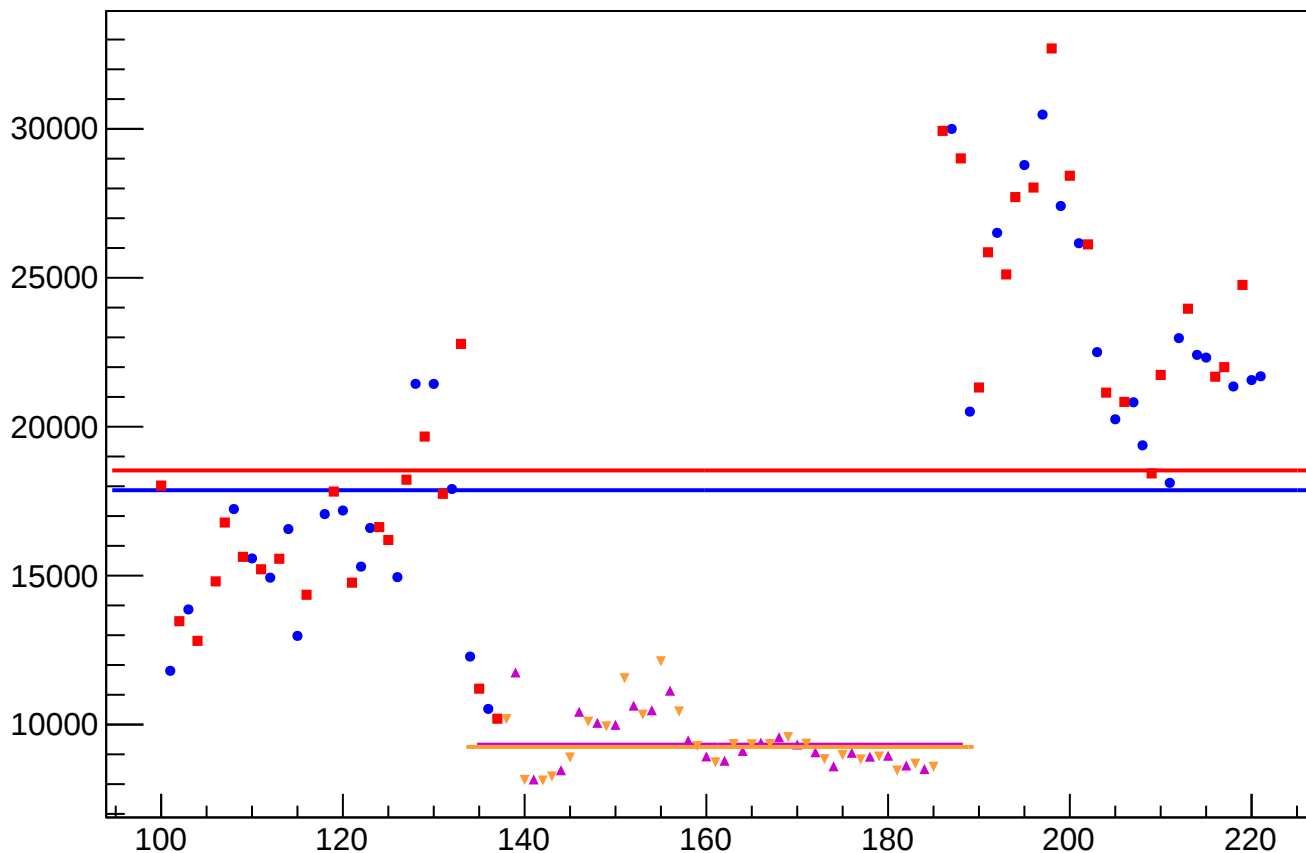
Right: -1.112 $\pm$ 3.024 χ^2/NDF : 138.5/71

In: -4.232 $\pm$ 1.976 χ^2/NDF : 100.5/57

Out: -4.496 $\pm$ 1.942 χ^2/NDF : 138.4/61

All: -4.366 $\pm$ 1.385 χ^2/NDF : 238.8/119

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17867.710+/-2.959 χ^2/NDF : 3083315.8/34

Left Out: 9249.358+/-1.532 χ^2/NDF : 332003.4/24

Right Out: 18532.592+/-3.094 χ^2/NDF : 3069506.2/36

Left In: 9325.112+/-1.585 χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

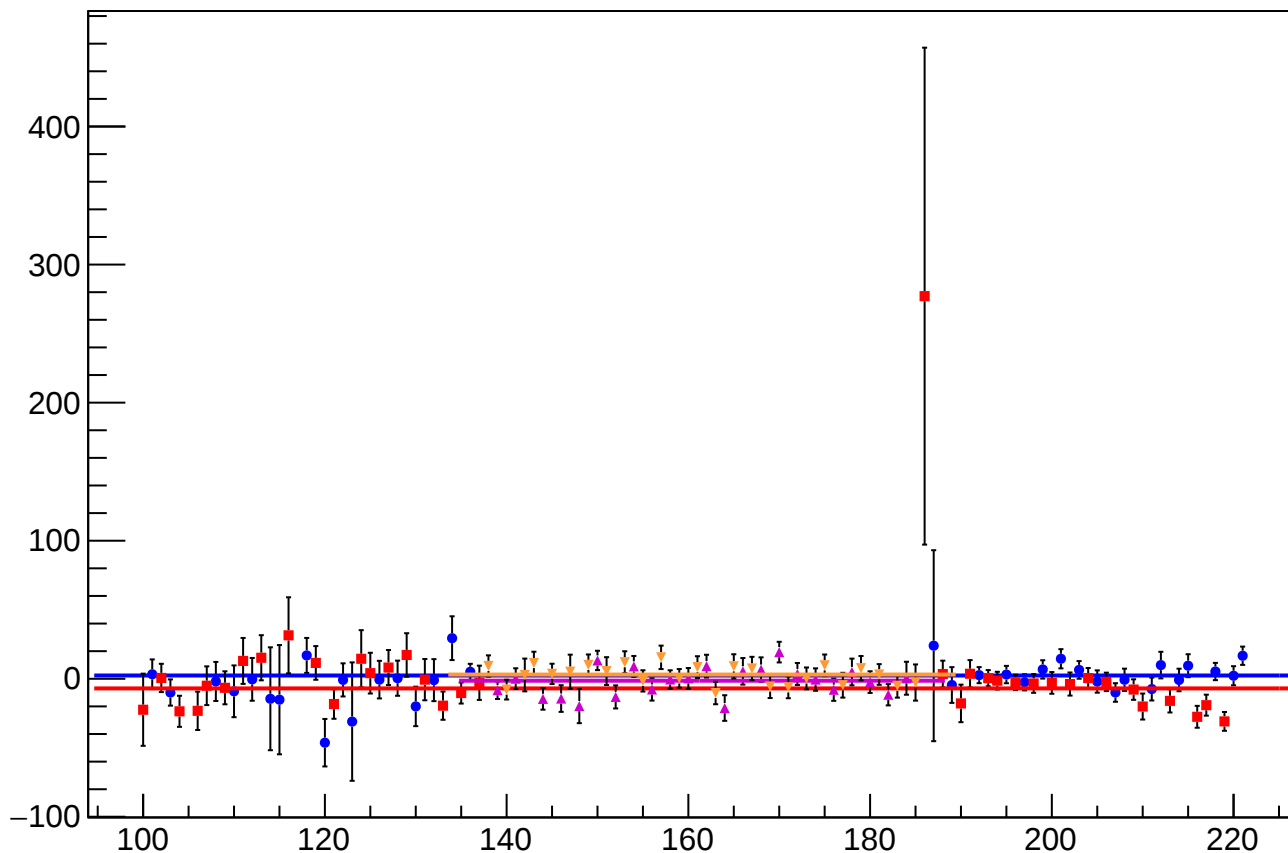
Right: 18185.379+/-2.139 χ^2/NDF : 6176939.5/71

In: 11230.291+/-1.398 χ^2/NDF : 9838708.4/57

Out: 11077.434+/-1.373 χ^2/NDF : 10631685.1/61

All: 11152.505+/-0.979 χ^2/NDF : 20476481.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.380 ± 1.508 $\chi^2/\text{NDF}: 34.8/34$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -6.971 ± 1.545 $\chi^2/\text{NDF}: 55.8/36$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

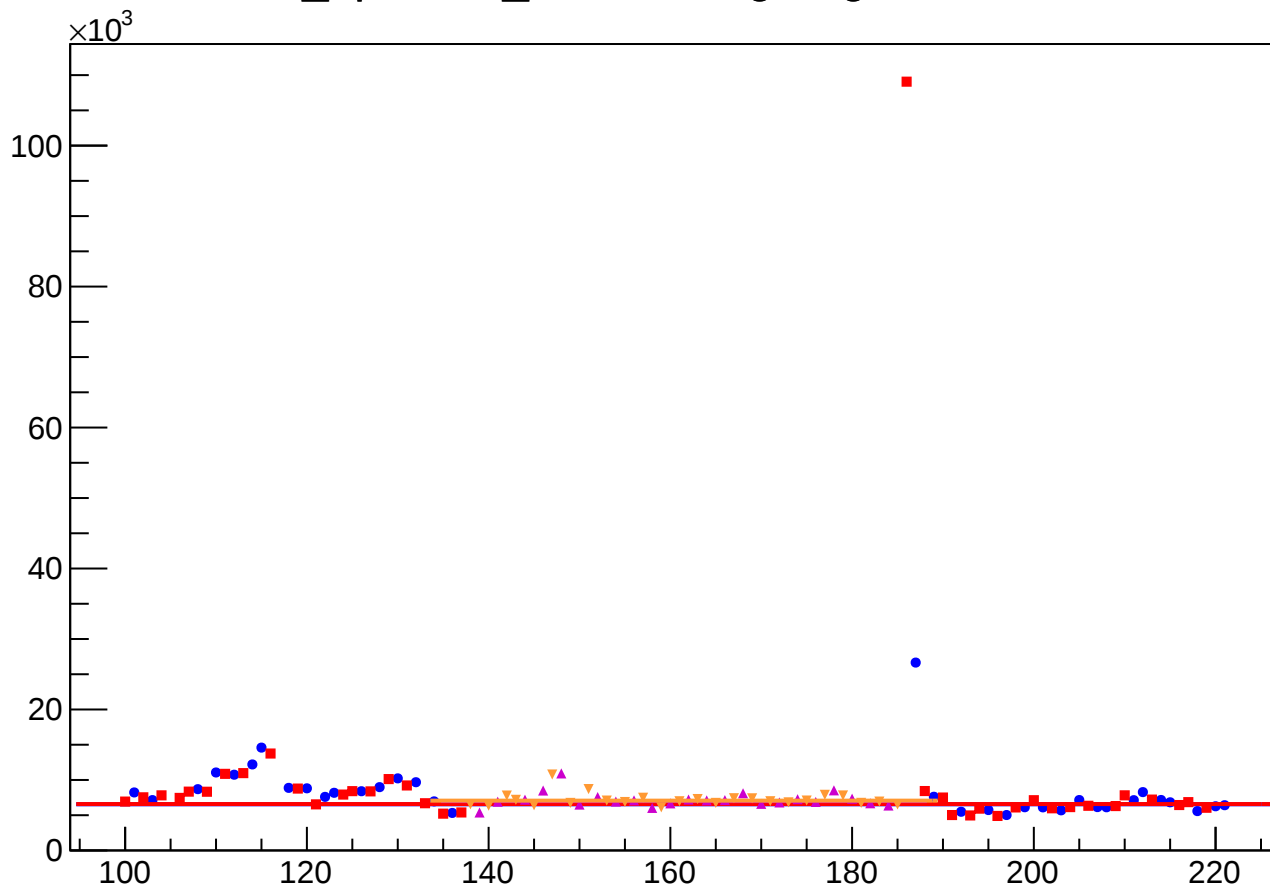
Right: -2.183 ± 1.079 $\chi^2/\text{NDF}: 109.4/71$

In: 0.710 ± 1.126 $\chi^2/\text{NDF}: 73.0/57$

Out: -2.310 ± 1.131 $\chi^2/\text{NDF}: 93.7/61$

All: -0.794 ± 0.798 $\chi^2/\text{NDF}: 170.2/119$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6547.754 $\pm$ 1.067 χ^2/NDF : 1665025.8/34

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6582.397 $\pm$ 1.093 χ^2/NDF : 2166182.4/36

Left In: 7000.532 $\pm$ 1.197 χ^2/NDF : 550029.3/22

Left: 7034.358 $\pm$ 0.838 χ^2/NDF : 939043.5/47

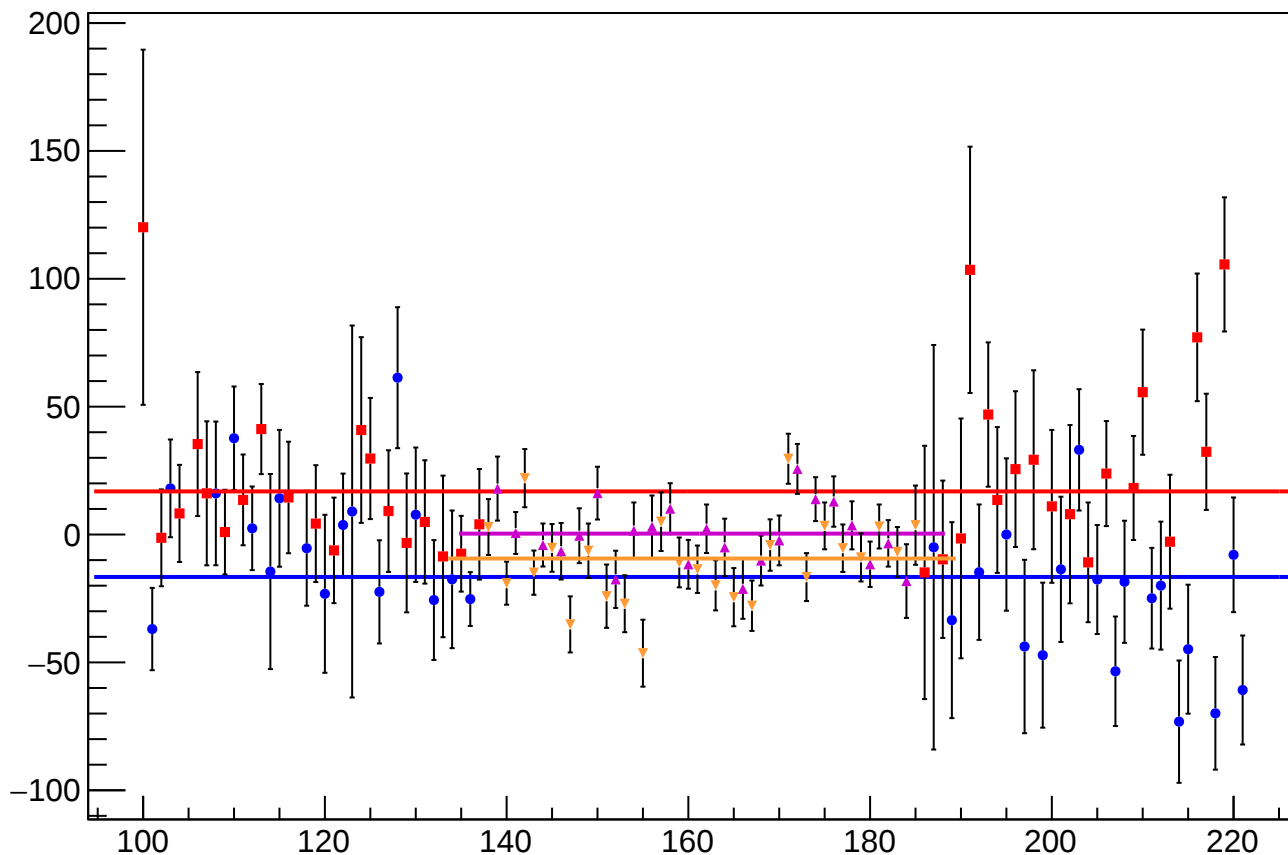
Right: 6564.658 $\pm$ 0.763 χ^2/NDF : 3831722.9/71

In: 6748.105 $\pm$ 0.796 χ^2/NDF : 2294788.7/57

Out: 6807.465 $\pm$ 0.800 χ^2/NDF : 2644950.2/61

All: 6777.670 $\pm$ 0.564 χ^2/NDF : 4942505.7/11

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -16.593 ± 3.843 $\chi^2/\text{NDF}: 54.4/34$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 16.860 ± 3.978 $\chi^2/\text{NDF}: 41.9/36$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

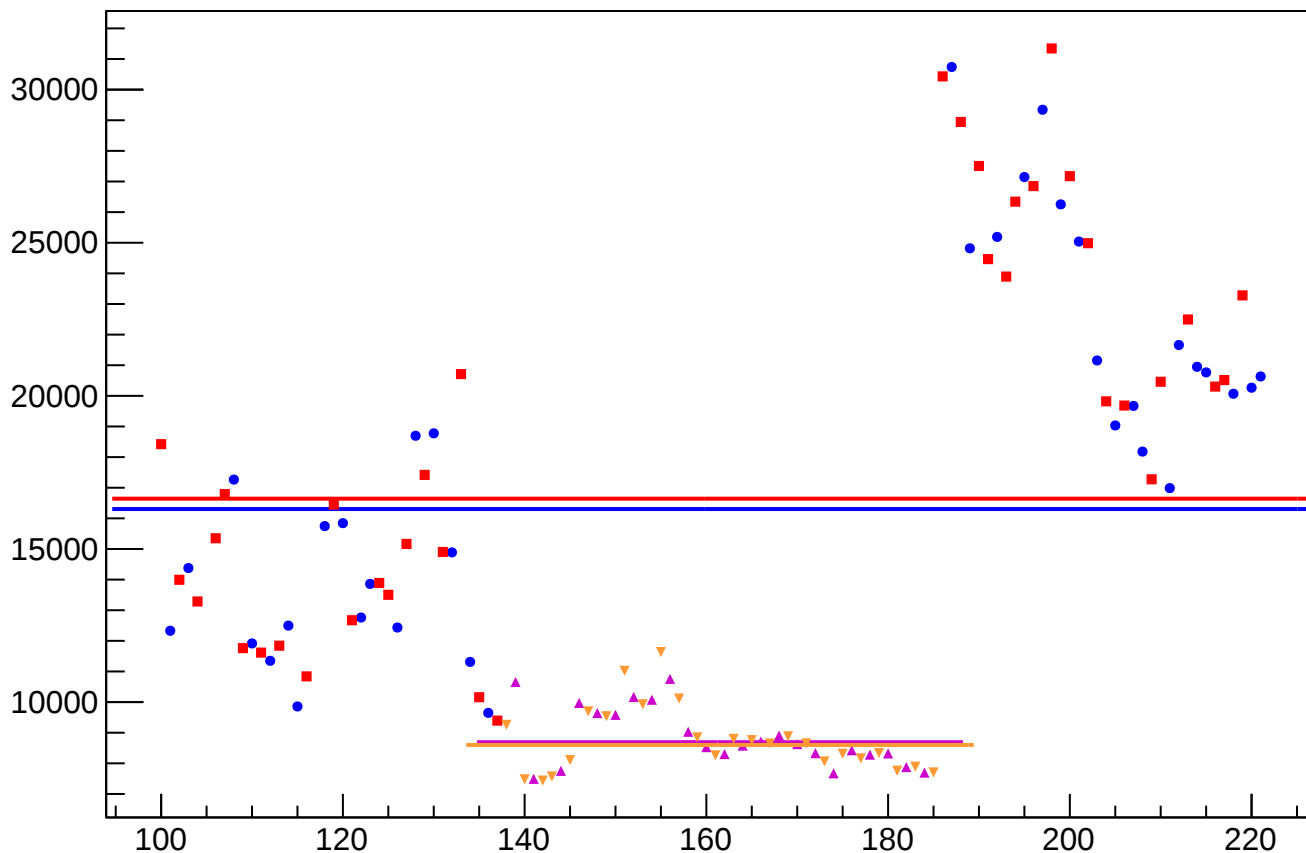
Right: -0.441 ± 2.764 $\chi^2/\text{NDF}: 132.9/71$

In: -3.521 ± 1.838 $\chi^2/\text{NDF}: 99.0/57$

Out: -4.006 ± 1.799 $\chi^2/\text{NDF}: 134.9/61$

All: -3.769 ± 1.286 $\chi^2/\text{NDF}: 234.0/119$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16304.258 $\pm$ 2.717 χ^2 /NDF: 3608435.4/34

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16642.981 $\pm$ 2.813 χ^2 /NDF: 3913659.7/36

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

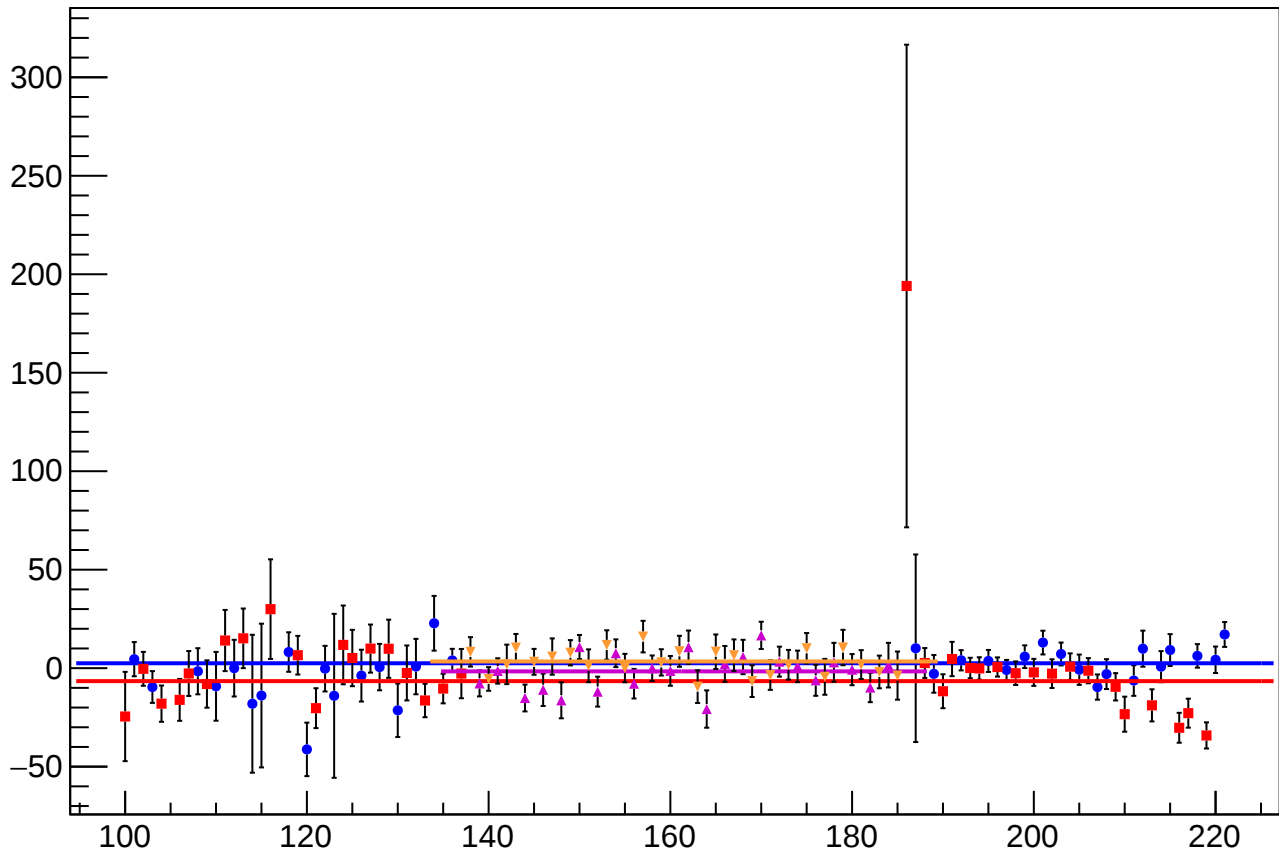
Right: 16467.798 $\pm$ 1.954 χ^2 /NDF: 7529596.4/71

In: 10430.961 $\pm$ 1.299 χ^2 /NDF:10035021.7/57

Out: 10246.533 $\pm$ 1.272 χ^2 /NDF:10855229.4/61

All: 10336.815 $\pm$ 0.909 χ^2 /NDF: 20900535.5

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.495 $\pm$ 1.378 χ^2/NDF : 37.6/34

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -6.581 $\pm$ 1.389 χ^2/NDF : 71.7/36

Left In: -1.627 $\pm$ 1.599 χ^2/NDF : 33.5/22

Left: 0.967 $\pm$ 1.113 χ^2/NDF : 55.4/47

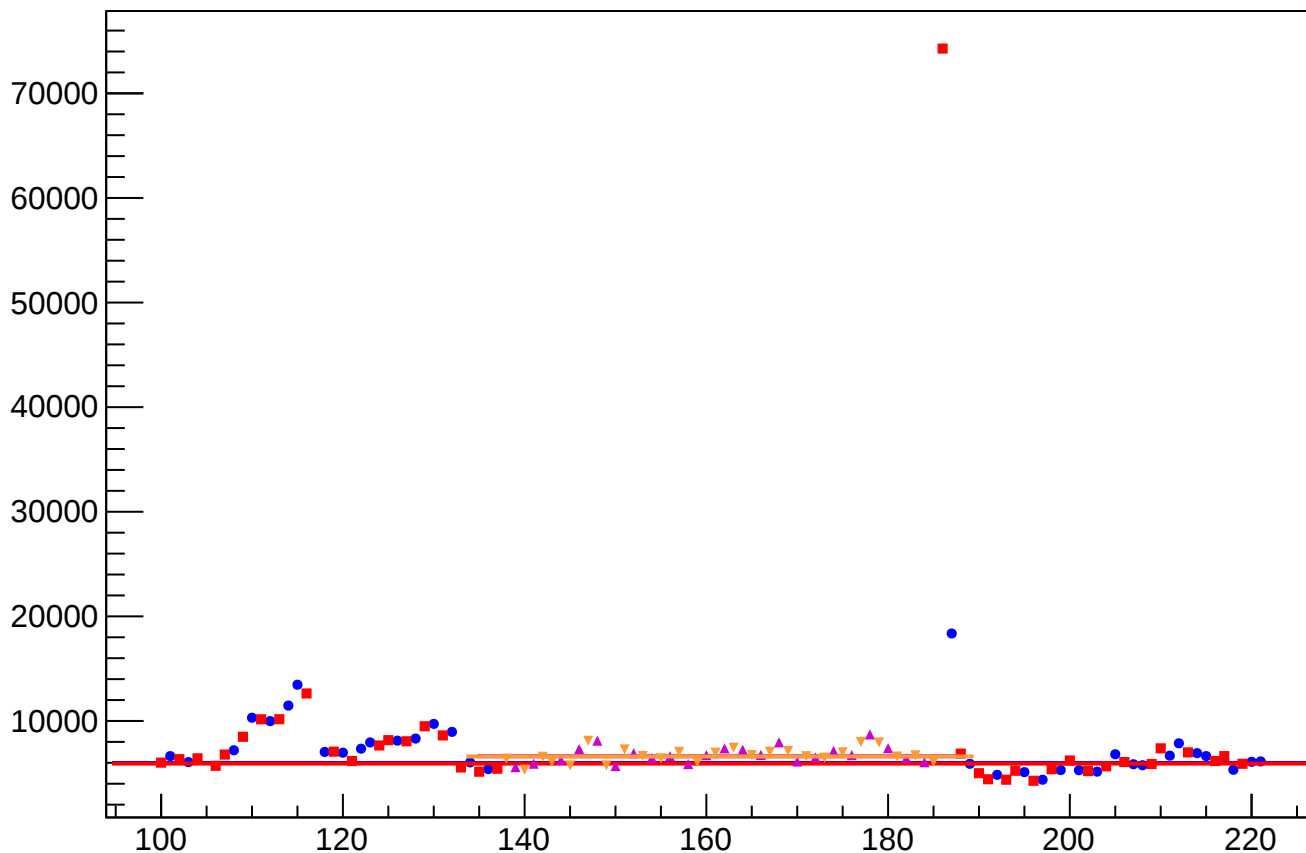
Right: -2.007 $\pm$ 0.978 χ^2/NDF : 130.8/71

In: 0.739 $\pm$ 1.044 χ^2/NDF : 74.9/57

Out: -2.136 $\pm$ 1.034 χ^2/NDF : 111.6/61

All: -0.711 $\pm$ 0.735 χ^2/NDF : 190.3/119

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5985.571+/-0.974 χ^2/NDF : 1665134.6/34

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5926.595+/-0.982 χ^2/NDF : 2254524.7/36

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

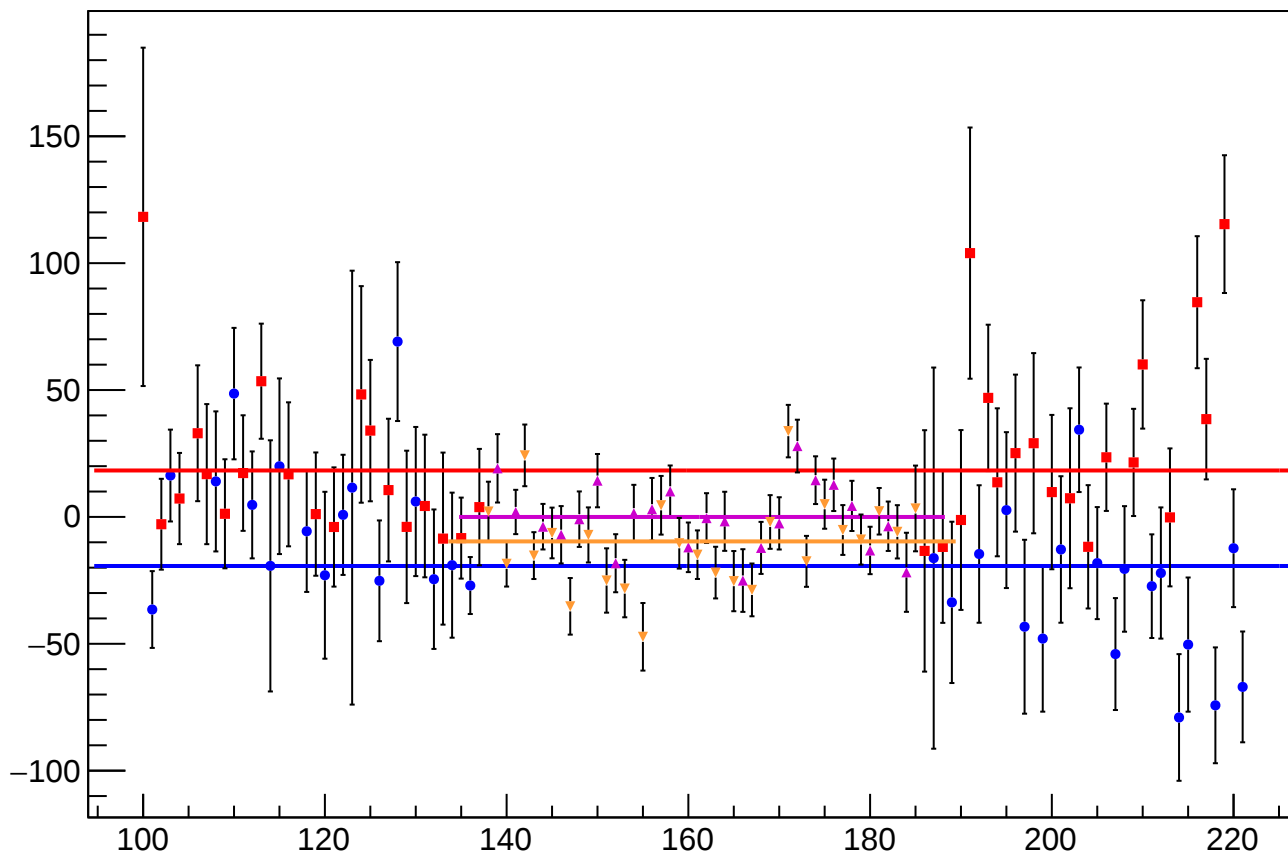
Right: 5956.318+/-0.692 χ^2/NDF : 3921477.1/71

In: 6259.556+/-0.738 χ^2/NDF : 2281061.7/57

Out: 6229.530+/-0.731 χ^2/NDF : 2866710.7/61

All: 6244.409+/-0.520 χ^2/NDF : 5148607.3/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -19.339 $\pm$ 4.090 χ^2/NDF : 54.0/34

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 18.302 $\pm$ 4.277 χ^2/NDF : 45.2/36

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

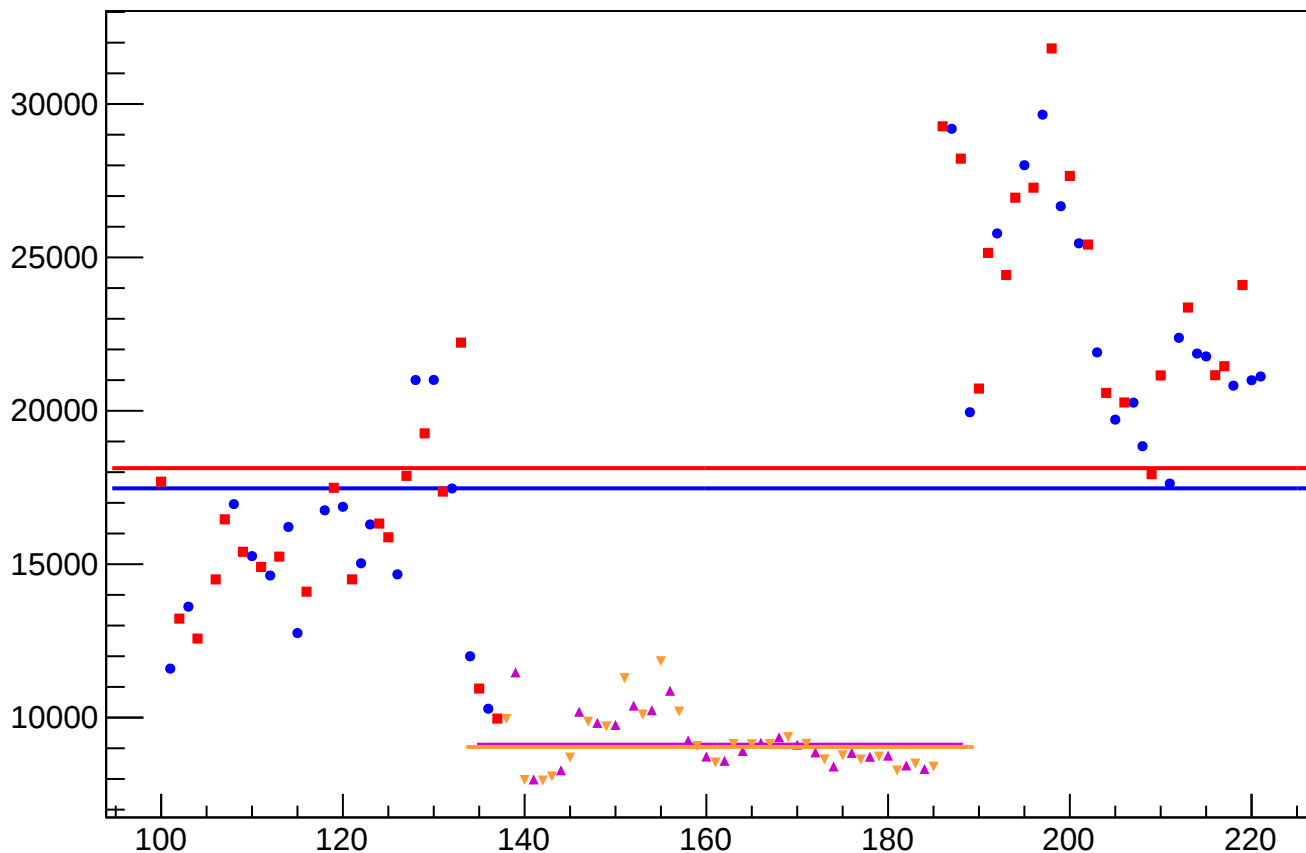
Right: -1.363 $\pm$ 2.956 χ^2/NDF : 139.6/71

In: -4.331 $\pm$ 1.932 χ^2/NDF : 102.0/57

Out: -4.144 $\pm$ 1.898 χ^2/NDF : 139.3/61

All: -4.236 $\pm$ 1.354 χ^2/NDF : 241.2/119

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17472.735 $\pm$ 2.892 χ^2 /NDF: 3030589.6/34

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 18131.521 $\pm$ 3.025 χ^2 /NDF: 3012606.7/36

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

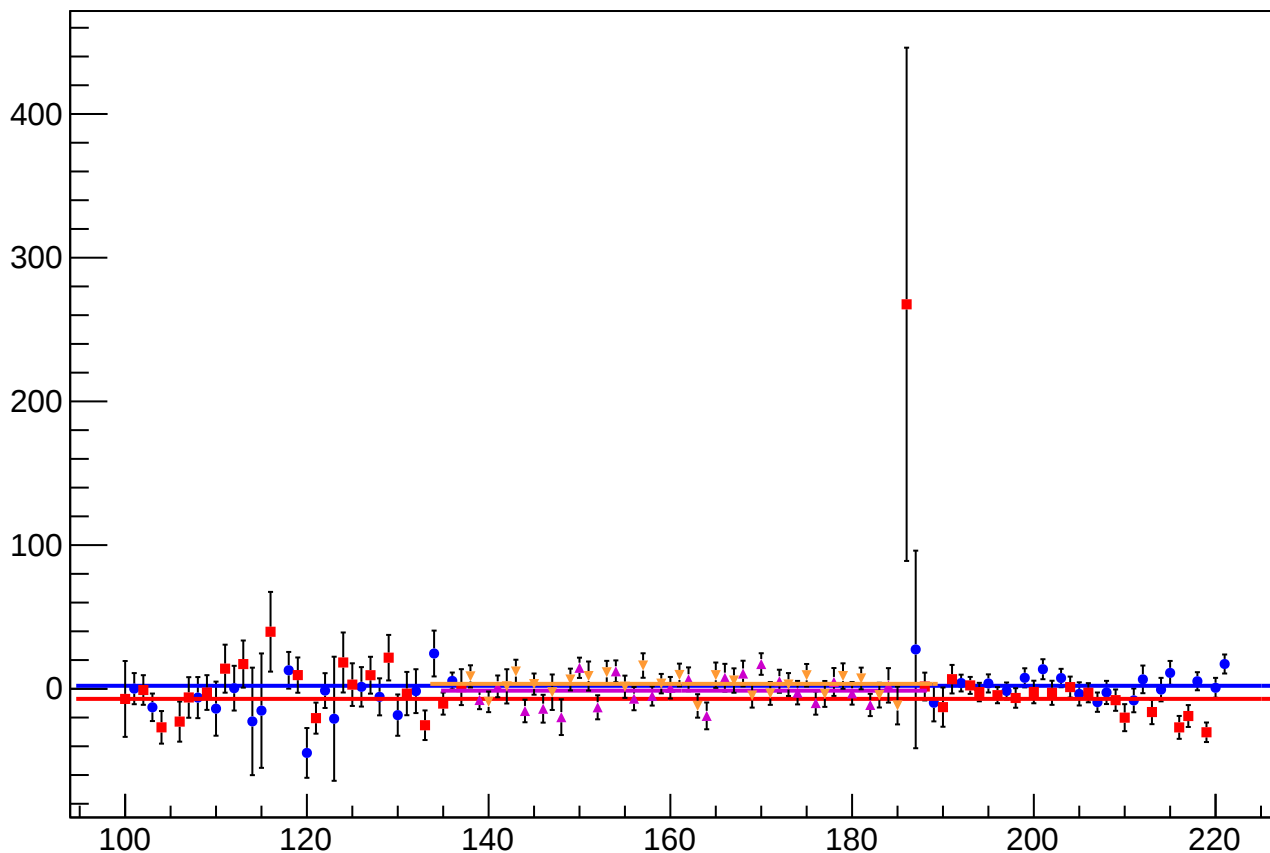
Right: 17787.358 $\pm$ 2.090 χ^2 /NDF: 6067981.9/71

In: 10981.699 $\pm$ 1.366 χ^2 /NDF:9794031.7/57

Out: 10833.351 $\pm$ 1.342 χ^2 /NDF:10591408.8/61

All: 10906.217 $\pm$ 0.957 χ^2 /NDF: 20391440.4

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 2.092 $\pm$ 1.513 χ^2/NDF : 35.2/34

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -7.012 $\pm$ 1.551 χ^2/NDF : 59.8/36

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

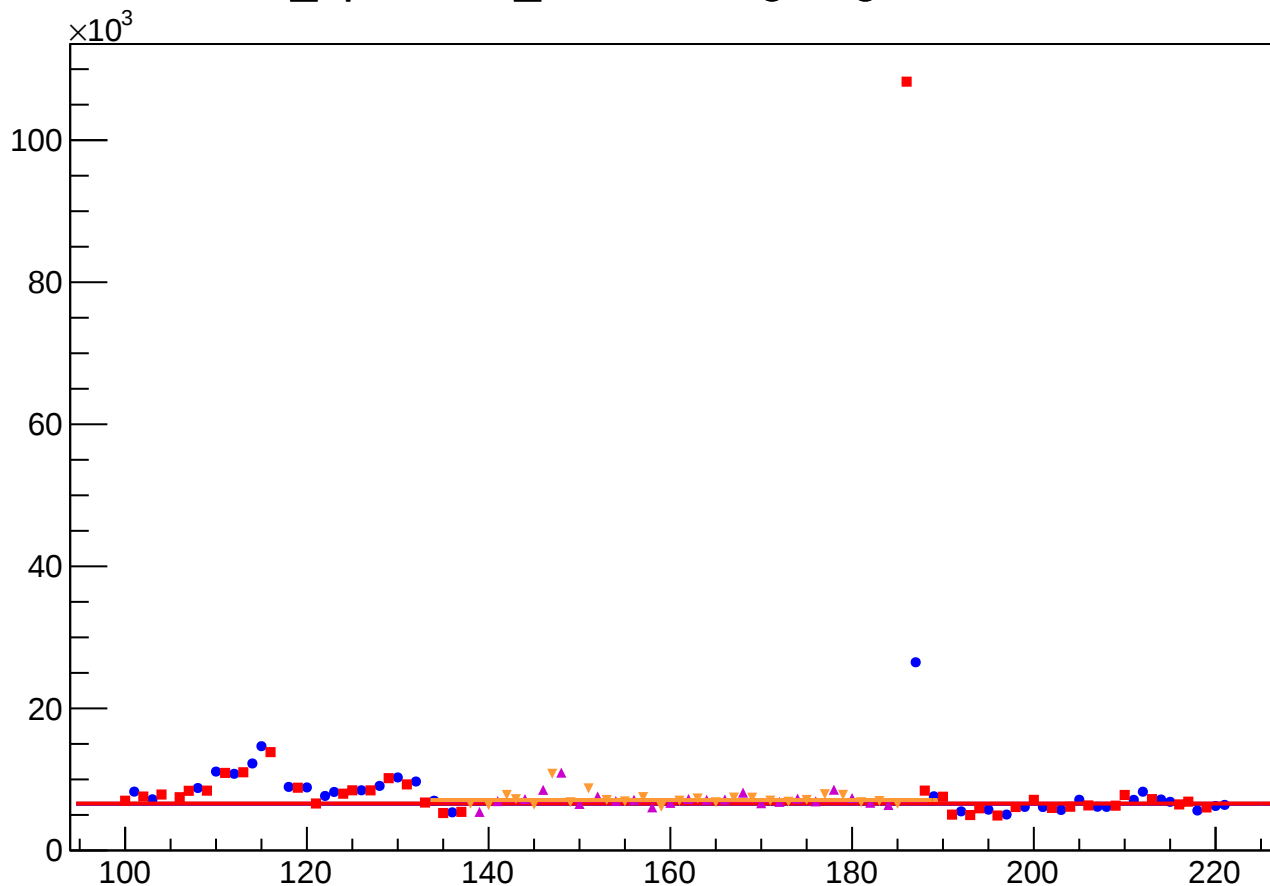
Right: -2.347 $\pm$ 1.083 χ^2/NDF : 112.6/71

In: 0.598 $\pm$ 1.130 χ^2/NDF : 73.9/57

Out: -2.161 $\pm$ 1.135 χ^2/NDF : 99.7/61

All: -0.776 $\pm$ 0.801 χ^2/NDF : 176.6/119

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6566.597 ± 1.070 $\chi^2/\text{NDF}: 1669931.2/34$

Left Out: 7098.726 ± 1.178 $\chi^2/\text{NDF}: 382550.4/24$

Right Out: 6605.515 ± 1.096 $\chi^2/\text{NDF}: 2170731.0/36$

Left In: 7033.702 ± 1.203 $\chi^2/\text{NDF}: 541035.5/22$

Left: 7066.886 ± 0.842 $\chi^2/\text{NDF}: 925077.6/47$

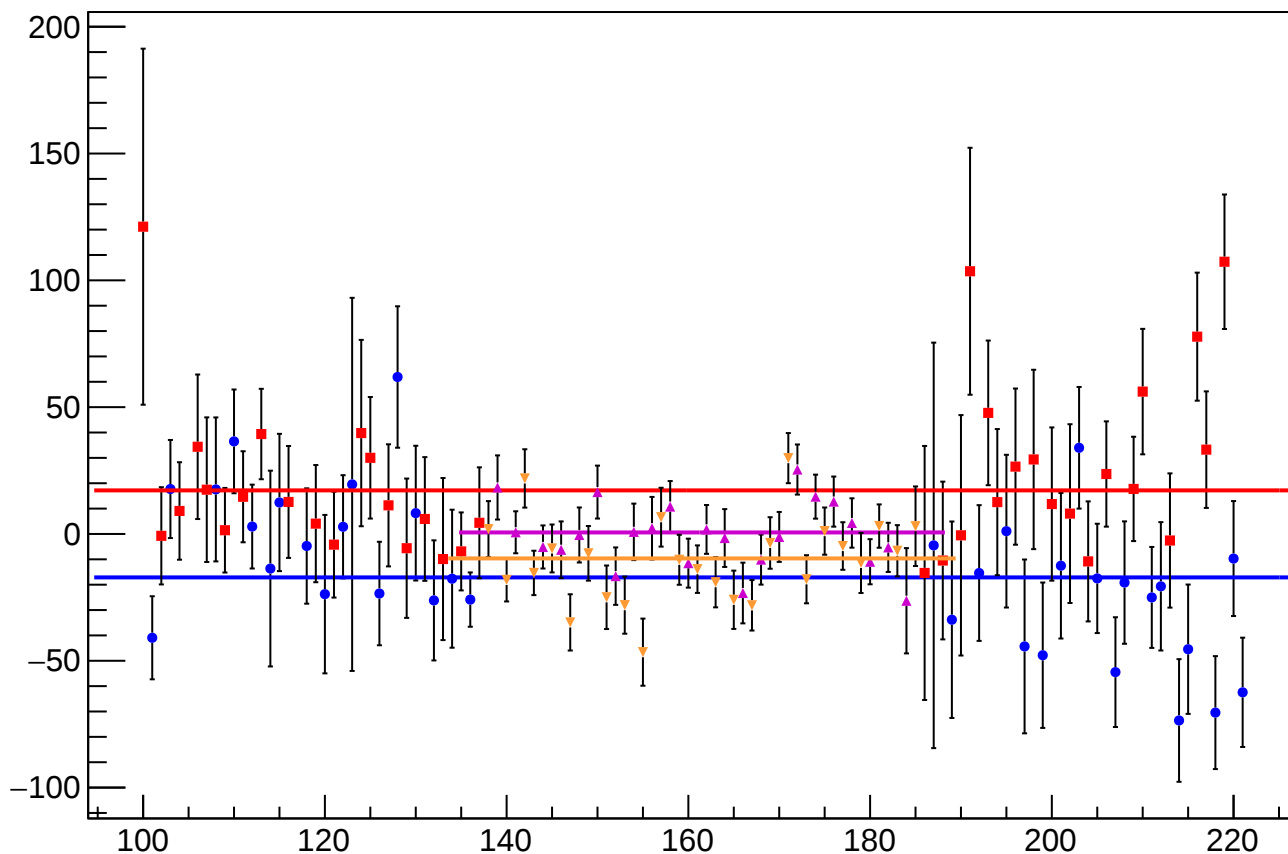
Right: 6585.575 ± 0.766 $\chi^2/\text{NDF}: 3841307.8/71$

In: 6772.884 ± 0.799 $\chi^2/\text{NDF}: 2295189.9/57$

Out: 6834.422 ± 0.803 $\chi^2/\text{NDF}: 2647204.1/61$

All: 6803.525 ± 0.566 $\chi^2/\text{NDF}: 4945345.7/11$

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -17.127 ± 3.891 $\chi^2/\text{NDF}: 54.8/34$

Left Out: -9.640 ± 2.057 $\chi^2/\text{NDF}: 57.6/24$

Right Out: 17.184 ± 4.029 $\chi^2/\text{NDF}: 41.0/36$

Left In: 0.599 ± 2.135 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.710 ± 1.481 $\chi^2/\text{NDF}: 99.2/47$

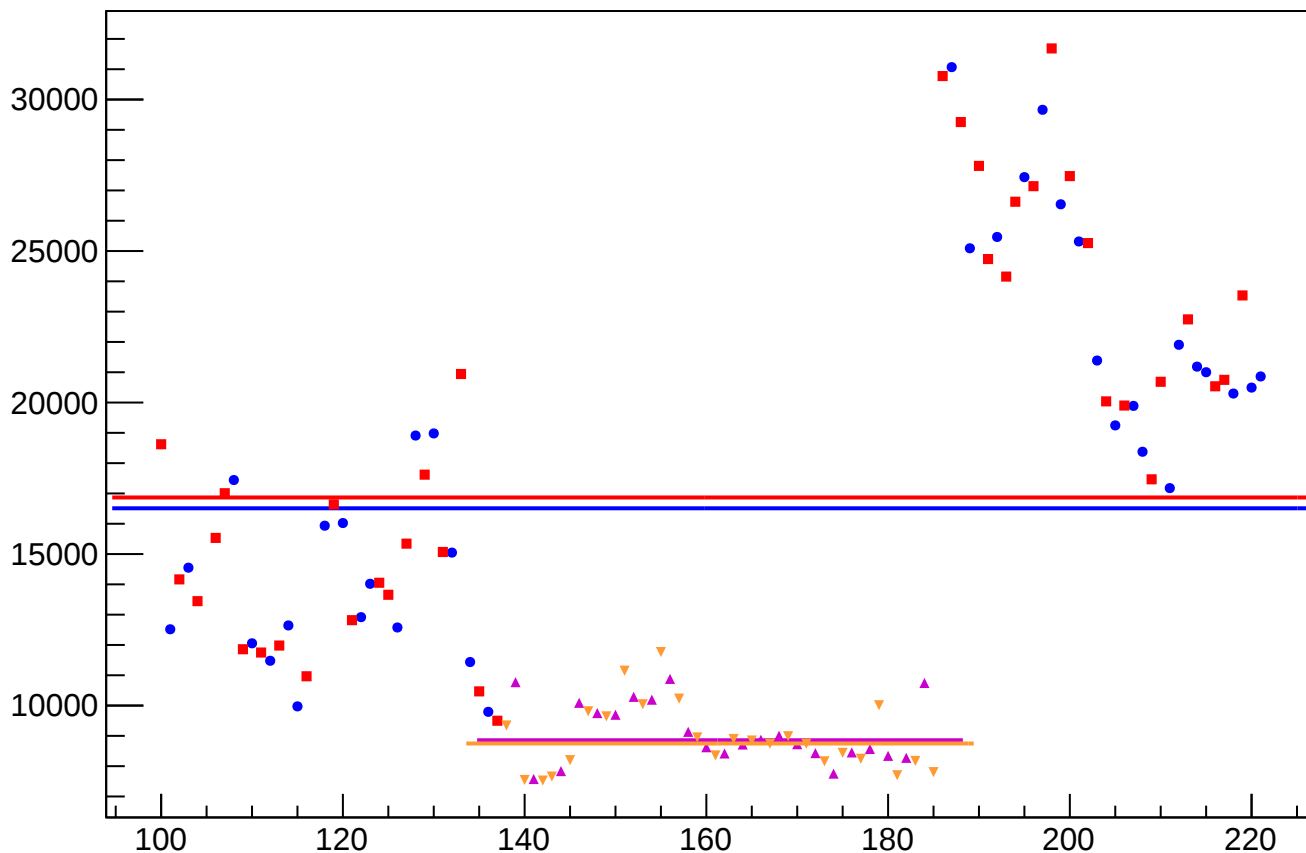
Right: -0.572 ± 2.799 $\chi^2/\text{NDF}: 133.3/71$

In: -3.503 ± 1.872 $\chi^2/\text{NDF}: 100.4/57$

Out: -4.094 ± 1.832 $\chi^2/\text{NDF}: 133.8/61$

All: -3.805 ± 1.309 $\chi^2/\text{NDF}: 234.2/119$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16510.279 ± 2.751 $\chi^2/\text{NDF}: 3582095.9/34$

Left Out: 8748.407 ± 1.455 $\chi^2/\text{NDF}: 463394.1/24$

Right Out: 16867.211 ± 2.849 $\chi^2/\text{NDF}: 3871617.8/36$

Left In: 8855.591 ± 1.510 $\chi^2/\text{NDF}: 367542.7/22$

Left: 8800.011 ± 1.048 $\chi^2/\text{NDF}: 833550.6/47$

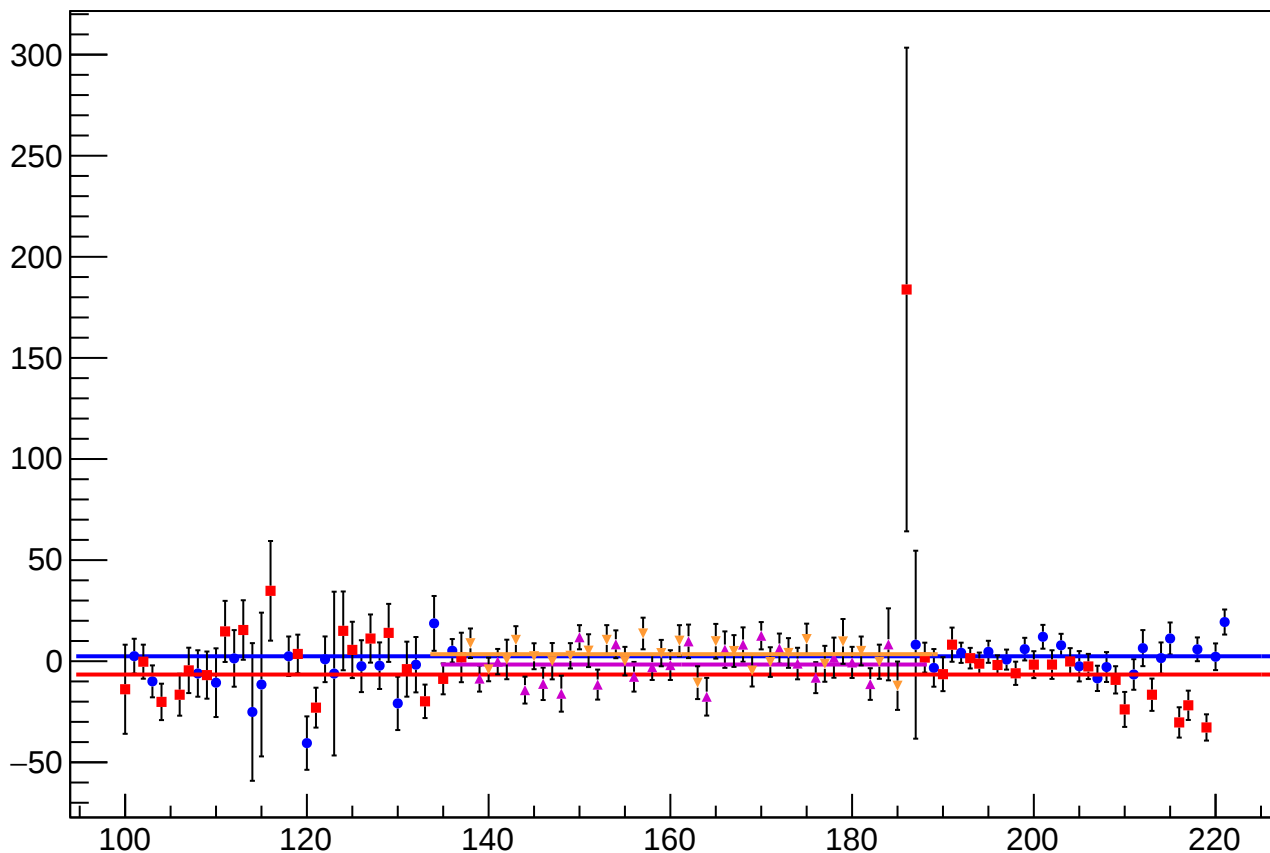
Right: 16682.505 ± 1.979 $\chi^2/\text{NDF}: 7461834.6/71$

In: 10627.015 ± 1.324 $\chi^2/\text{NDF}: 9899015.3/57$

Out: 10427.139 ± 1.296 $\chi^2/\text{NDF}: 10775578.4/61$

All: 10524.947 ± 0.926 $\chi^2/\text{NDF}: 20686239.9$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.441 $\pm$ 1.345 χ^2/NDF : 39.7/34

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF : 15.8/24

Right Out: -6.587 $\pm$ 1.355 χ^2/NDF : 74.4/36

Left In: -1.638 $\pm$ 1.578 χ^2/NDF : 33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

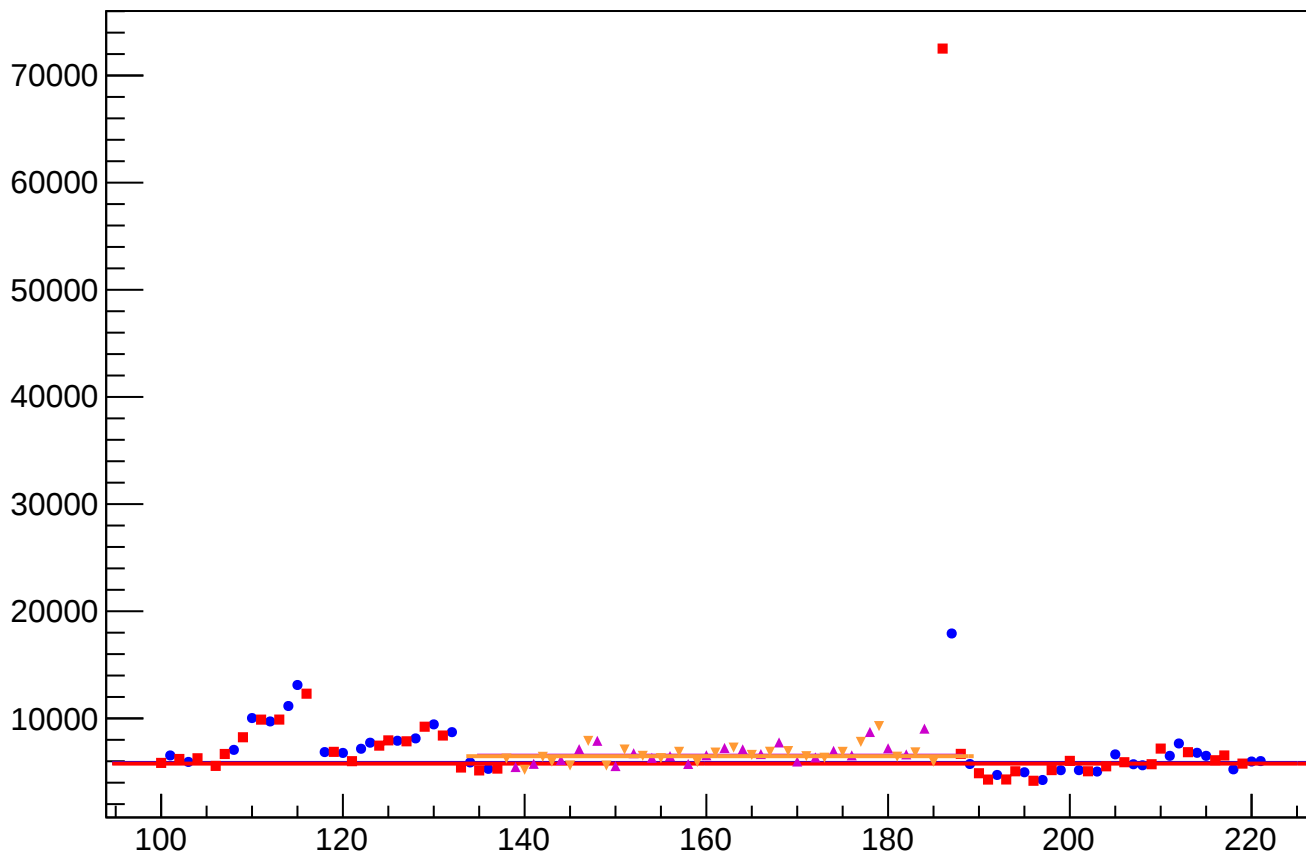
Right: -2.040 $\pm$ 0.955 χ^2/NDF : 136.4/71

In: 0.724 $\pm$ 1.024 χ^2/NDF : 77.3/57

Out: -2.146 $\pm$ 1.013 χ^2/NDF : 114.5/61

All: -0.726 $\pm$ 0.720 χ^2/NDF : 195.8/119

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5842.838 $\pm$ 0.951 χ^2 /NDF: 1671545.9/34

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5781.141 $\pm$ 0.958 χ^2 /NDF: 2250808.4/36

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

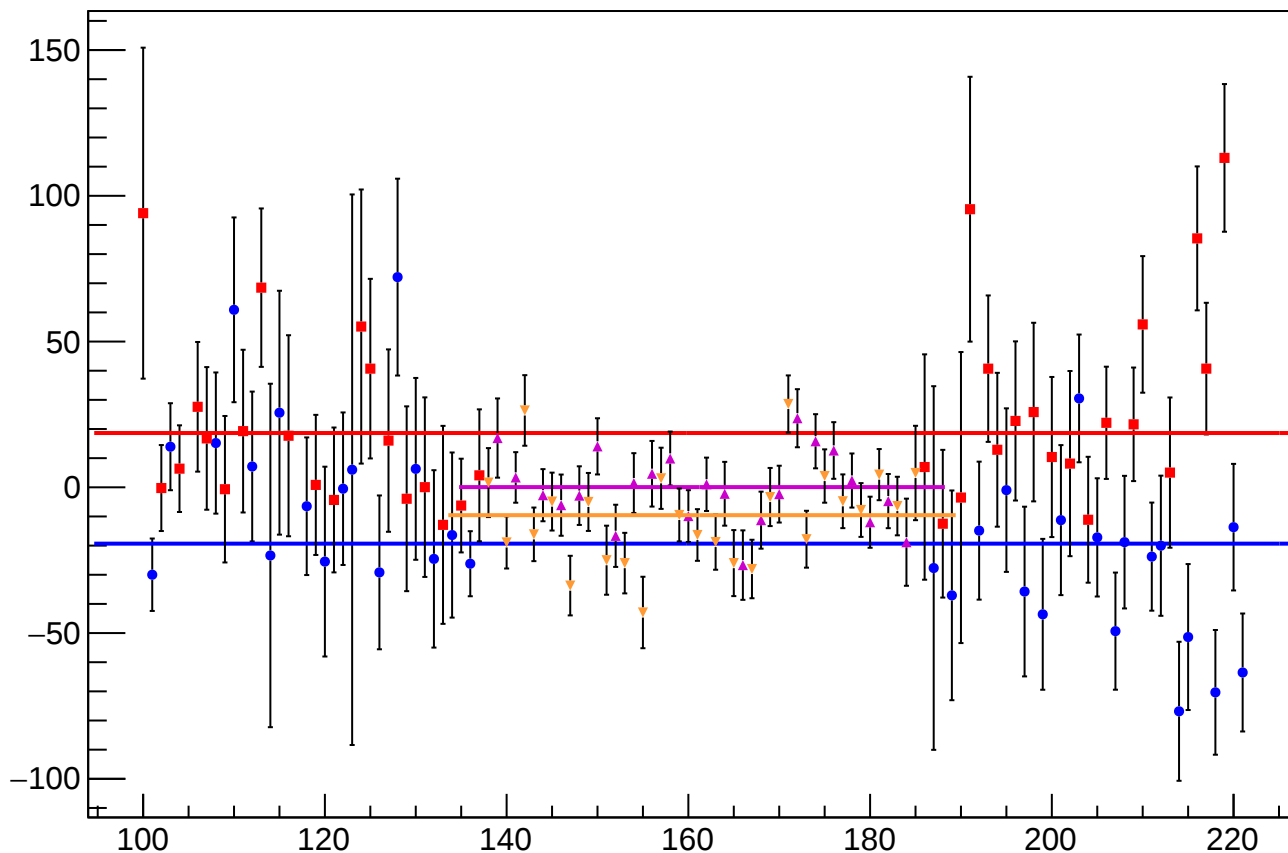
Right: 5812.213 $\pm$ 0.675 χ^2 /NDF: 3924442.1/71

In: 6128.731 $\pm$ 0.724 χ^2 /NDF: 2366117.8/57

Out: 6086.115 $\pm$ 0.716 χ^2 /NDF: 2970544.8/61

All: 6107.193 $\pm$ 0.509 χ^2 /NDF: 5338414.0/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -19.324 ± 3.893 $\chi^2/\text{NDF}: 53.3/34$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 18.628 ± 4.095 $\chi^2/\text{NDF}: 47.9/36$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

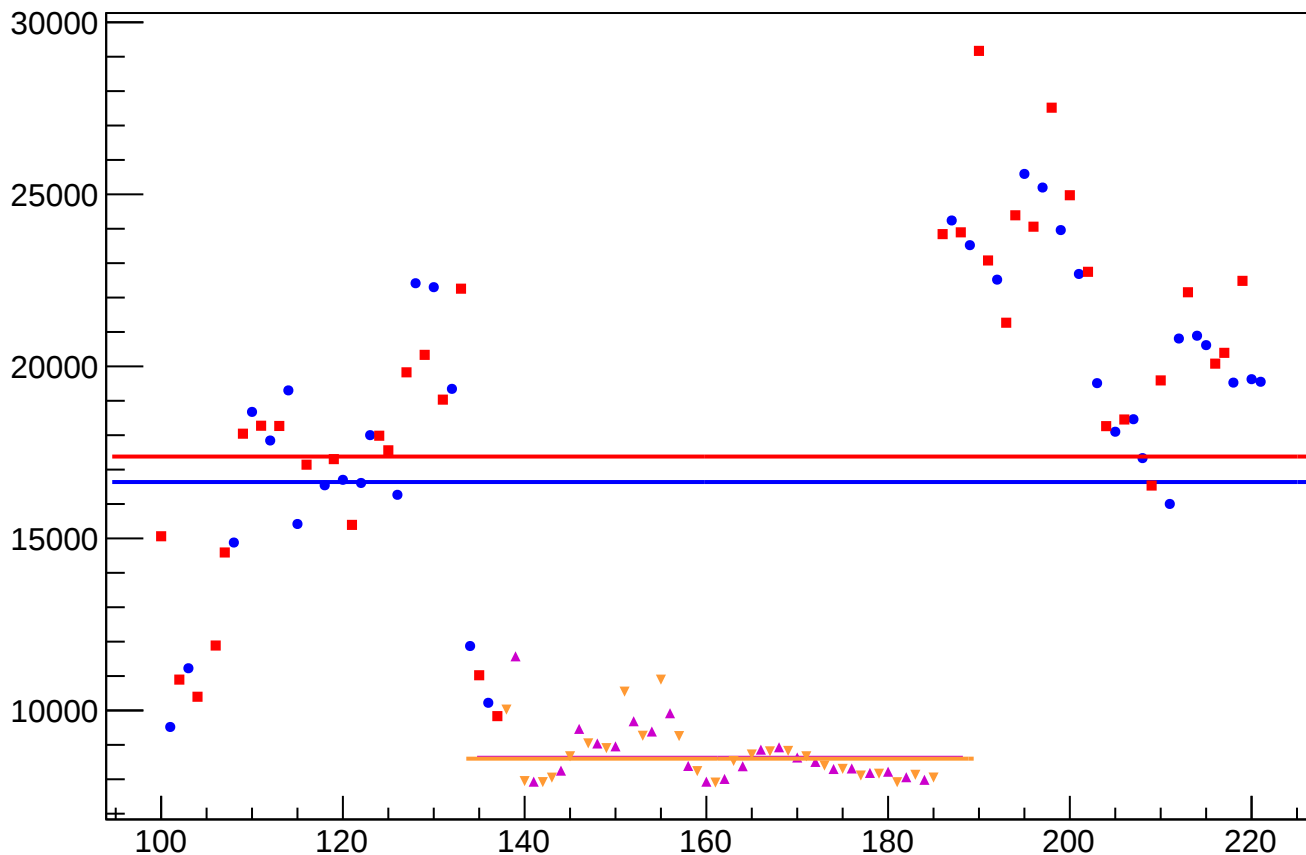
Right: -1.309 ± 2.821 $\chi^2/\text{NDF}: 146.4/71$

In: -4.213 ± 1.830 $\chi^2/\text{NDF}: 102.5/57$

Out: -4.075 ± 1.806 $\chi^2/\text{NDF}: 145.6/61$

All: -4.143 ± 1.285 $\chi^2/\text{NDF}: 248.1/119$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16638.793 $\pm$ 2.753 χ^2 /NDF: 3037592.6/34

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 17379.358 $\pm$ 2.896 χ^2 /NDF: 2919265.7/36

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

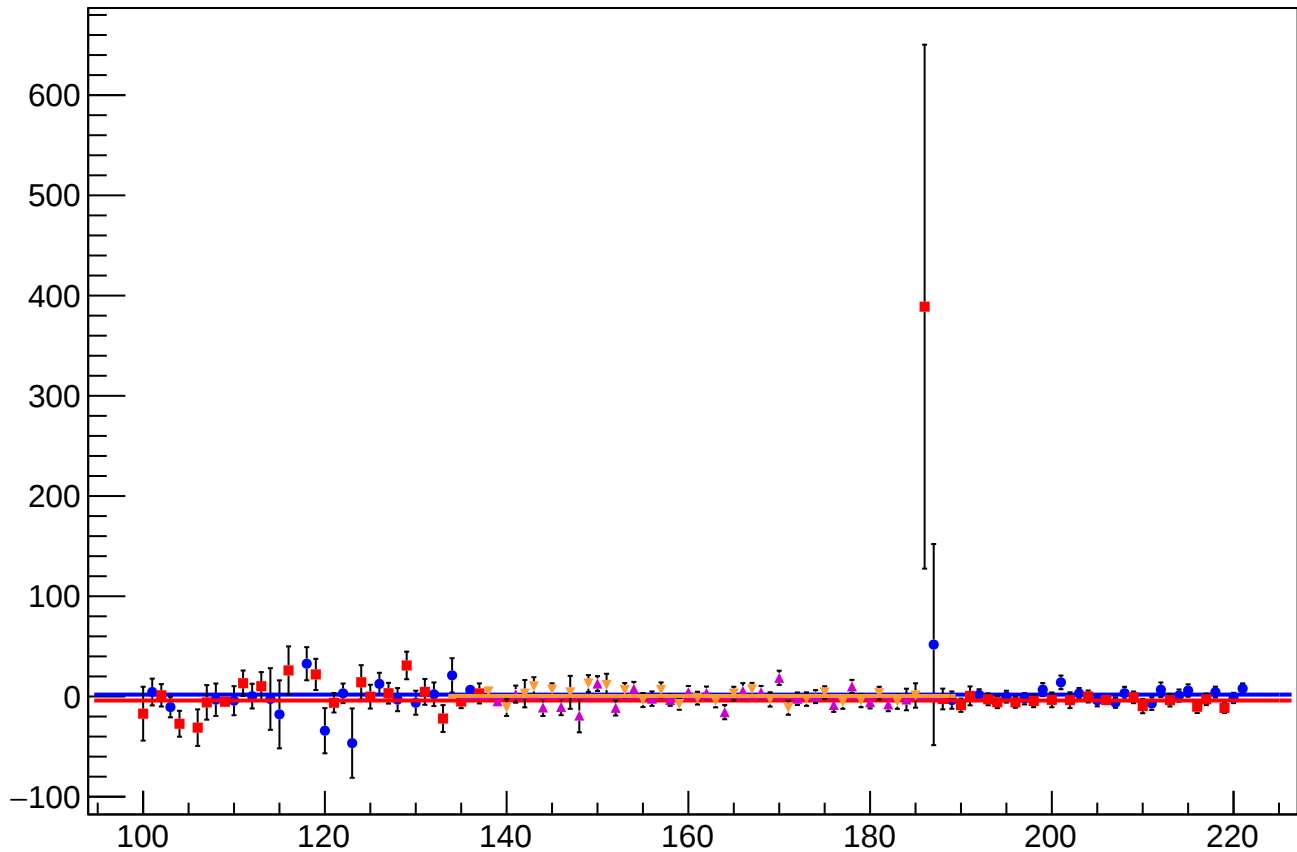
Right: 16990.325 $\pm$ 1.995 χ^2 /NDF: 5991218.9/71

In: 10395.386 $\pm$ 1.294 χ^2 /NDF:9878491.3/57

Out: 10306.071 $\pm$ 1.277 χ^2 /NDF:10575405.1/61

All: 10350.141 $\pm$ 0.909 χ^2 /NDF: 20456311.0

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.877 ± 1.283 $\chi^2/\text{NDF}: 27.3/34$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -4.014 ± 1.292 $\chi^2/\text{NDF}: 32.0/36$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

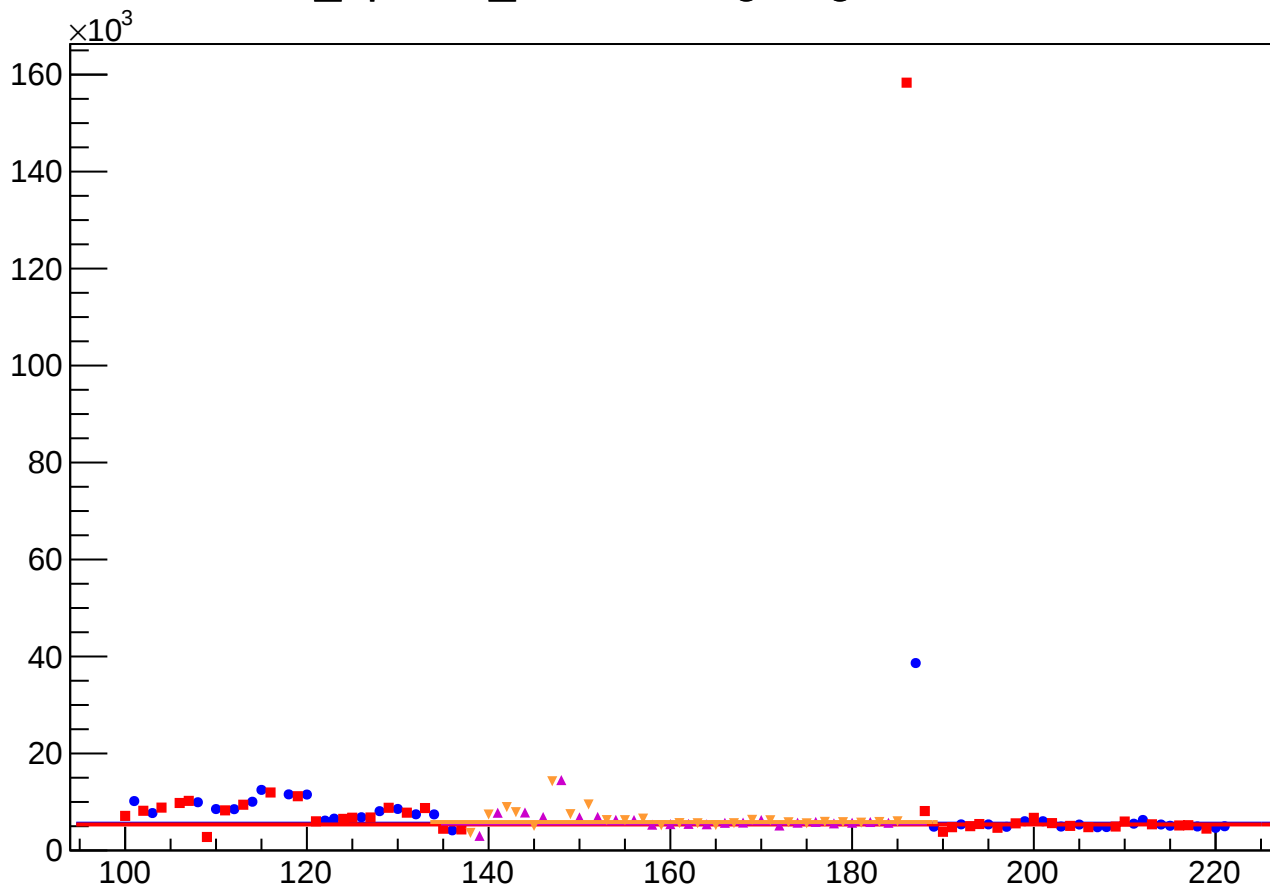
Right: -1.048 ± 0.910 $\chi^2/\text{NDF}: 69.7/71$

In: 0.537 ± 0.945 $\chi^2/\text{NDF}: 62.2/57$

Out: -1.953 ± 0.955 $\chi^2/\text{NDF}: 57.1/61$

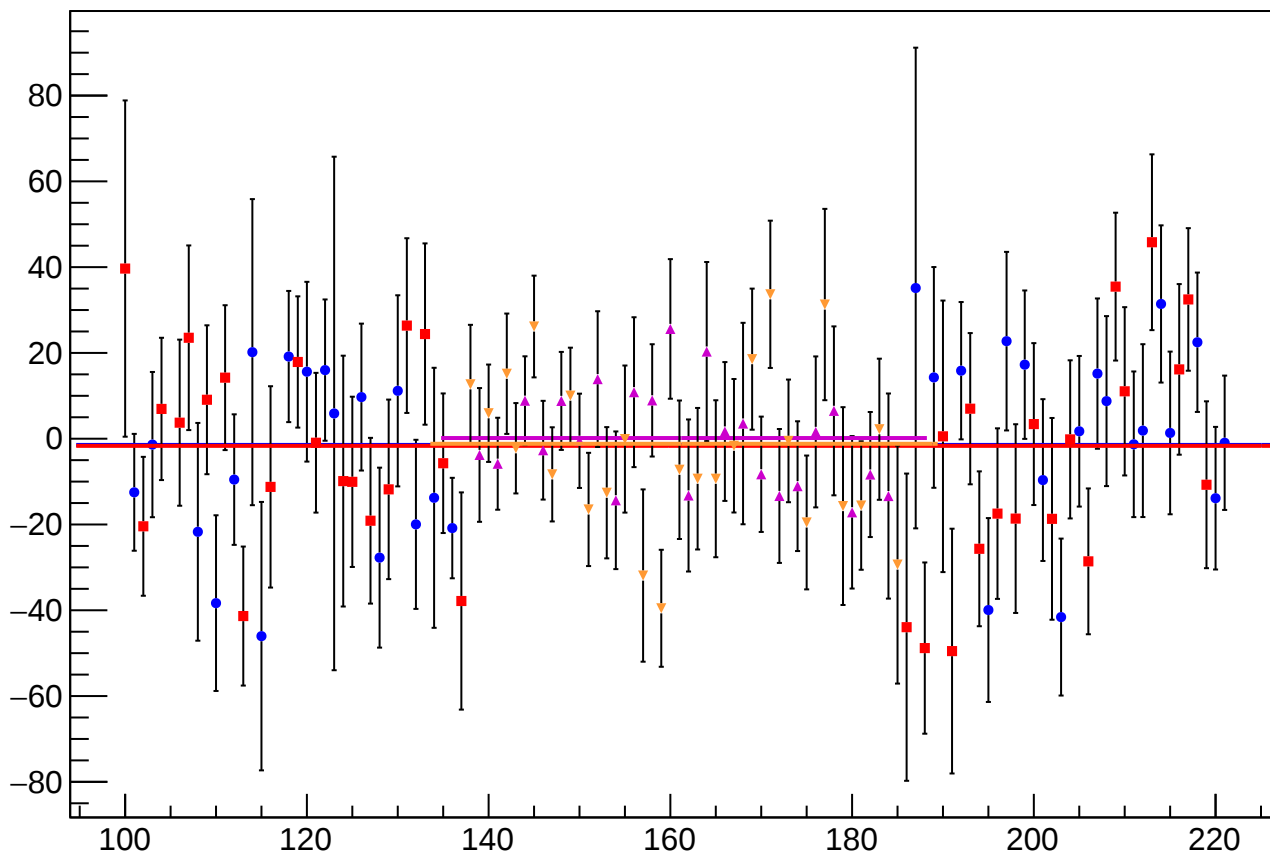
All: -0.695 ± 0.672 $\chi^2/\text{NDF}: 122.7/119$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5524.054+/-0.907	χ^2/NDF : 2257198.4/34	Left: 5713.698+/-0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605+/-1.002	χ^2/NDF : 1690049.2/24	Right: 5442.467+/-0.644	χ^2/NDF : 5803383.2/71
Right Out: 5359.746+/-0.914	χ^2/NDF : 3529901.3/36	In: 5545.712+/-0.668	χ^2/NDF : 4421230.4/57
Left In: 5571.330+/-0.987	χ^2/NDF : 2162788.3/22	Out: 5587.014+/-0.675	χ^2/NDF : 5356323.3/61
		All: 5566.138+/-0.475	χ^2/NDF : 9779444.8/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.451 ± 3.167 χ^2/NDF : 36.8/34

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -1.667 ± 3.217 χ^2/NDF : 51.9/36

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

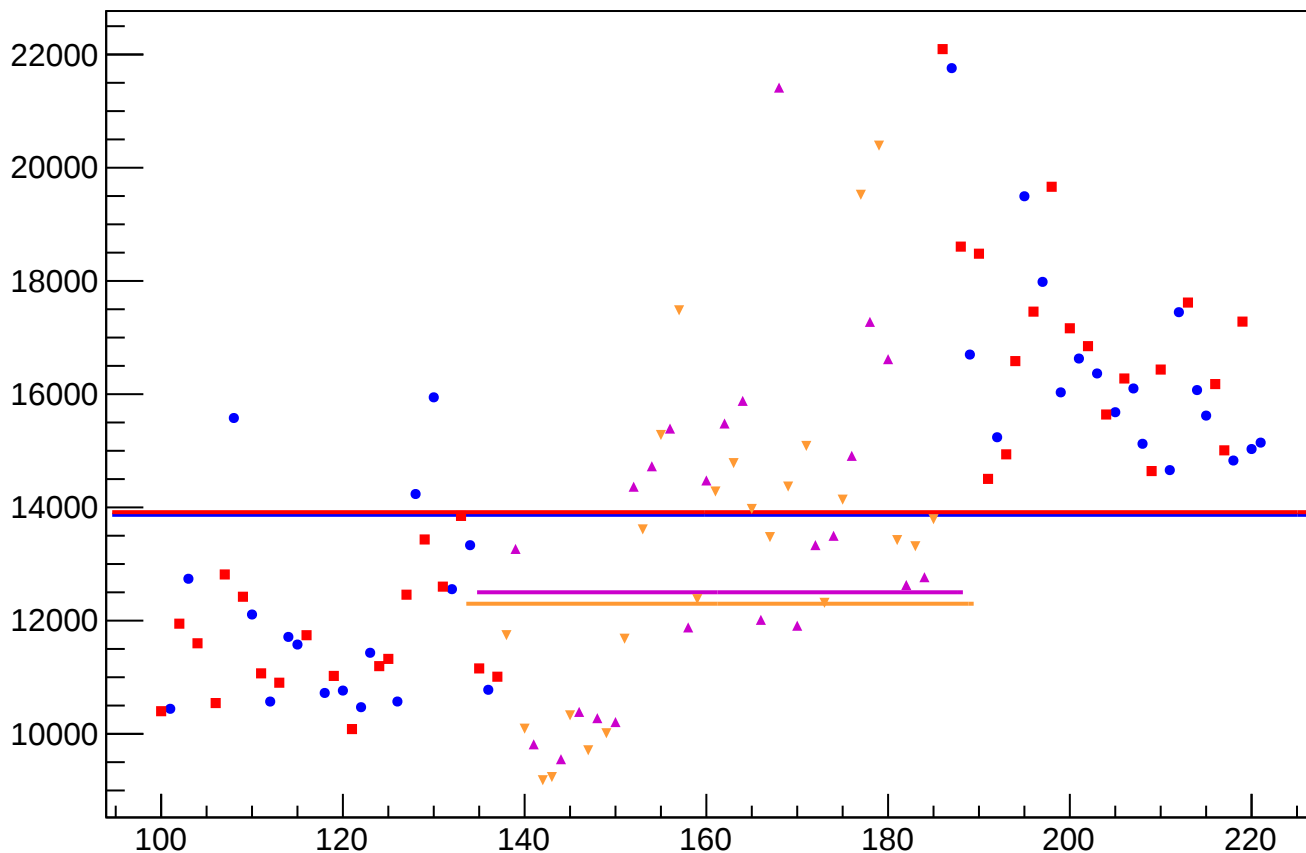
Right: -1.557 ± 2.257 χ^2/NDF : 88.7/71

In: -0.619 ± 2.200 χ^2/NDF : 48.5/57

Out: -1.403 ± 2.170 χ^2/NDF : 85.6/61

All: -1.016 ± 1.545 χ^2/NDF : 134.1/119

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13869.226+/-2.240

χ^2/NDF : 1340287.2/34

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

Right Out: 13915.941+/-2.275

χ^2/NDF : 1496893.4/36

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

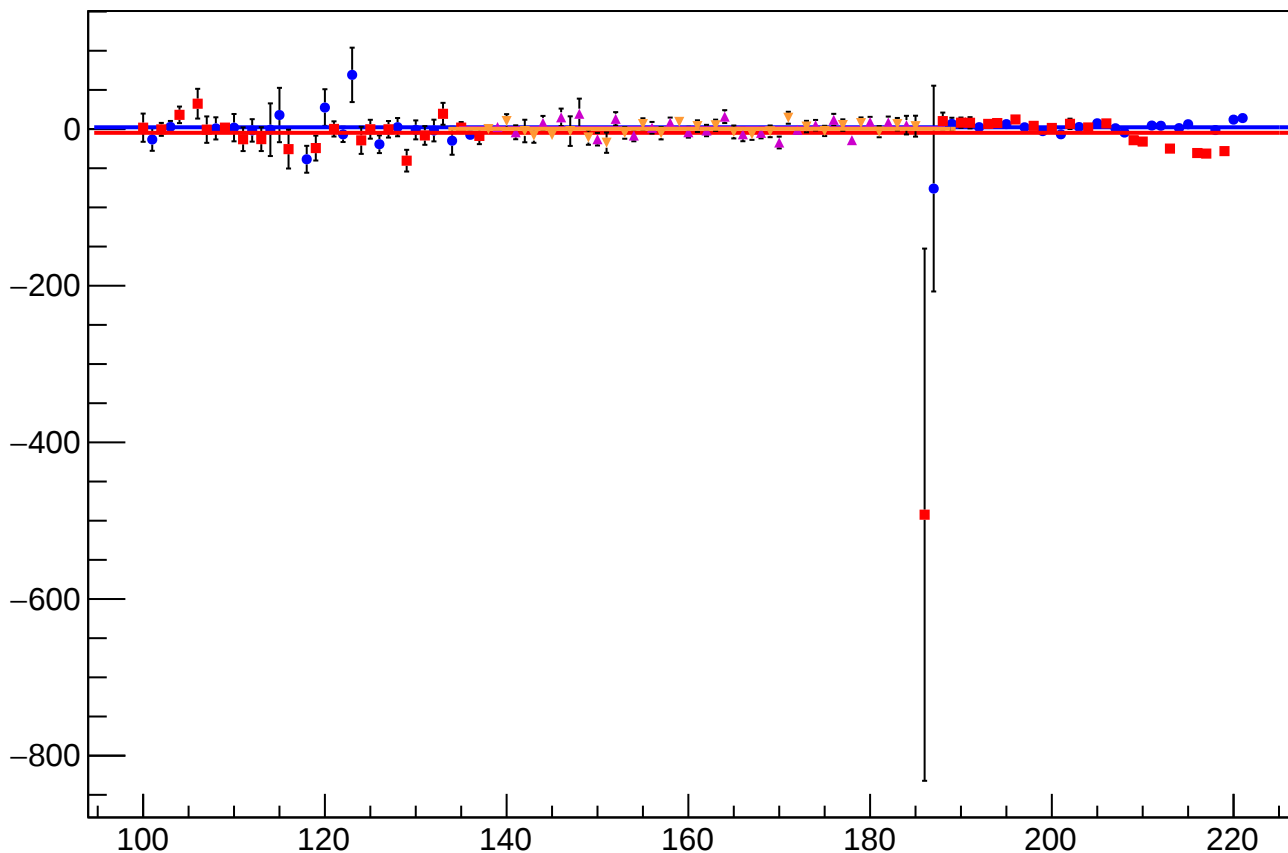
Right: 13892.219+/-1.596 χ^2/NDF : 2837394.7/71

In: 13160.993+/-1.556 χ^2/NDF : 2891392.3/57

Out: 13034.352+/-1.534 χ^2/NDF : 3278434.0/61

All: 13096.798+/-1.092 χ^2/NDF : 6173185.8/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 2.288 ± 1.067 $\chi^2/\text{NDF}: 42.9/34$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -4.768 ± 1.108 $\chi^2/\text{NDF}: 179.7/36$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

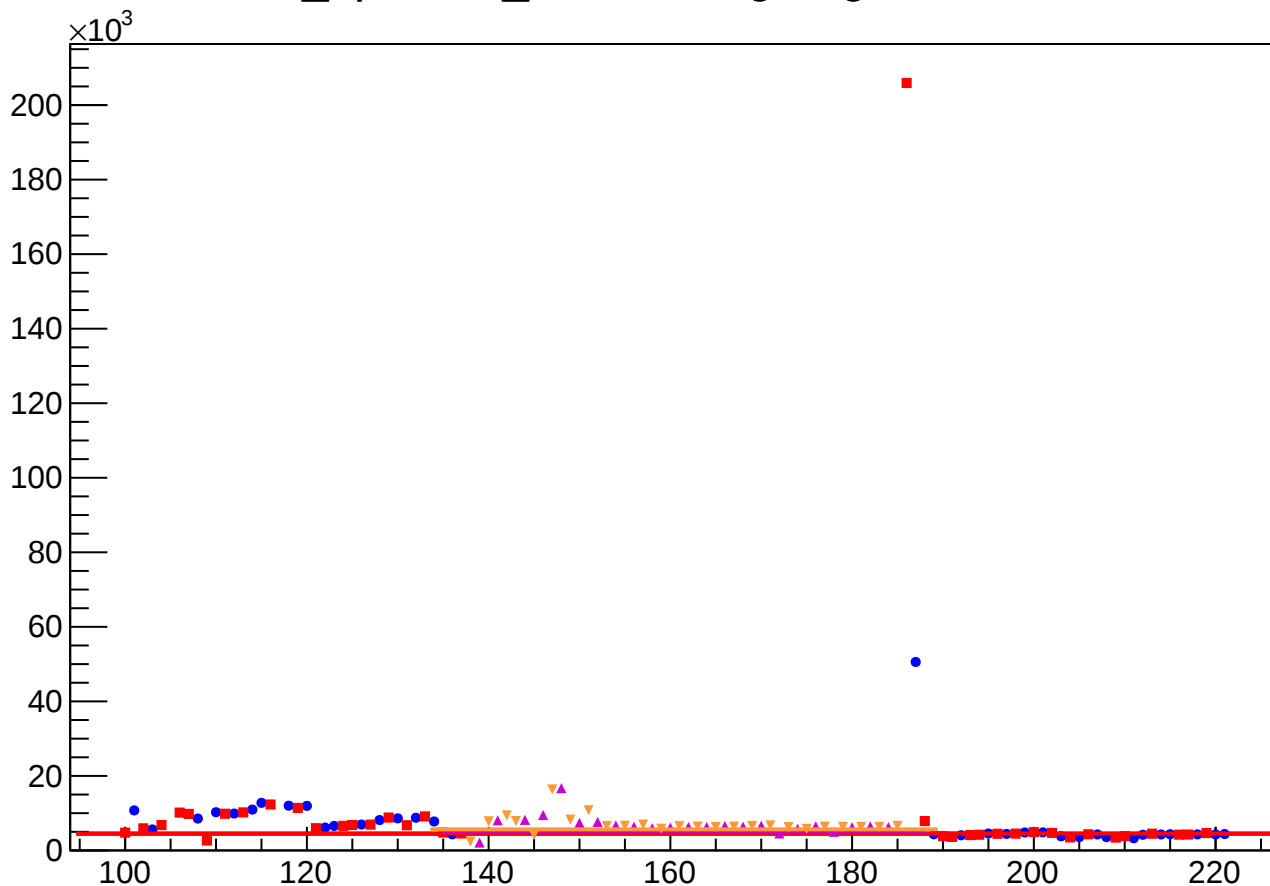
Right: -1.105 ± 0.768 $\chi^2/\text{NDF}: 243.6/71$

In: 1.865 ± 0.842 $\chi^2/\text{NDF}: 76.9/57$

Out: -2.852 ± 0.877 $\chi^2/\text{NDF}: 206.8/61$

All: -0.398 ± 0.607 $\chi^2/\text{NDF}: 298.8/119$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4506.817 ± 0.754 $\chi^2/\text{NDF}: 3453828.3/34$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 4531.239 ± 0.784 $\chi^2/\text{NDF}: 3974046.1/36$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

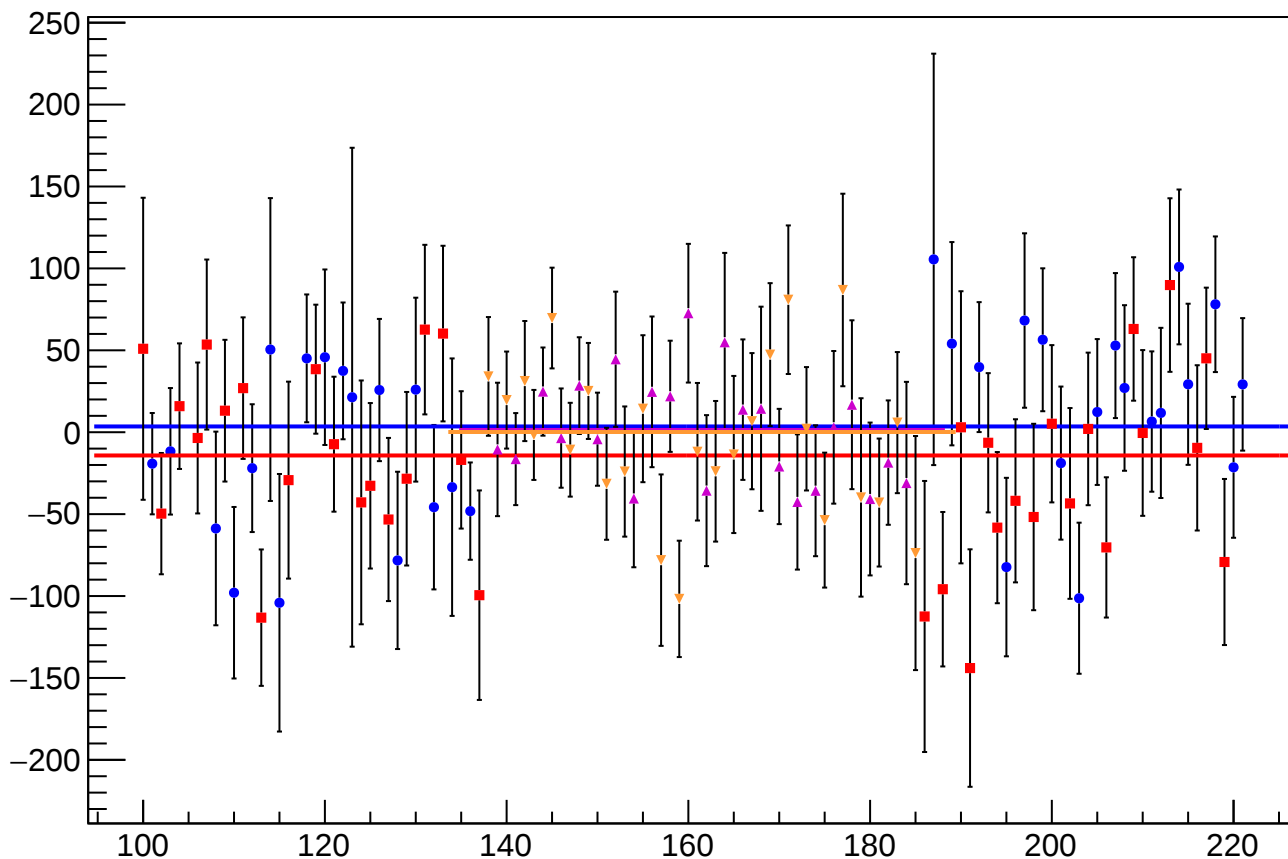
Right: 4518.563 ± 0.543 $\chi^2/\text{NDF}: 7428378.6/71$

In: 4744.646 ± 0.595 $\chi^2/\text{NDF}: 9213217.4/57$

Out: 4953.271 ± 0.620 $\chi^2/\text{NDF}: 8878146.8/61$

All: 4844.745 ± 0.429 $\chi^2/\text{NDF}: 18150280.7/131$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.520 ± 7.948 $\chi^2/\text{NDF}: 40.5/34$

Left Out: 0.143 ± 7.683 $\chi^2/\text{NDF}: 31.3/24$

Right Out: -14.193 ± 8.062 $\chi^2/\text{NDF}: 41.7/36$

Left In: 1.374 ± 7.990 $\chi^2/\text{NDF}: 13.3/22$

Left: 0.734 ± 5.538 $\chi^2/\text{NDF}: 44.6/47$

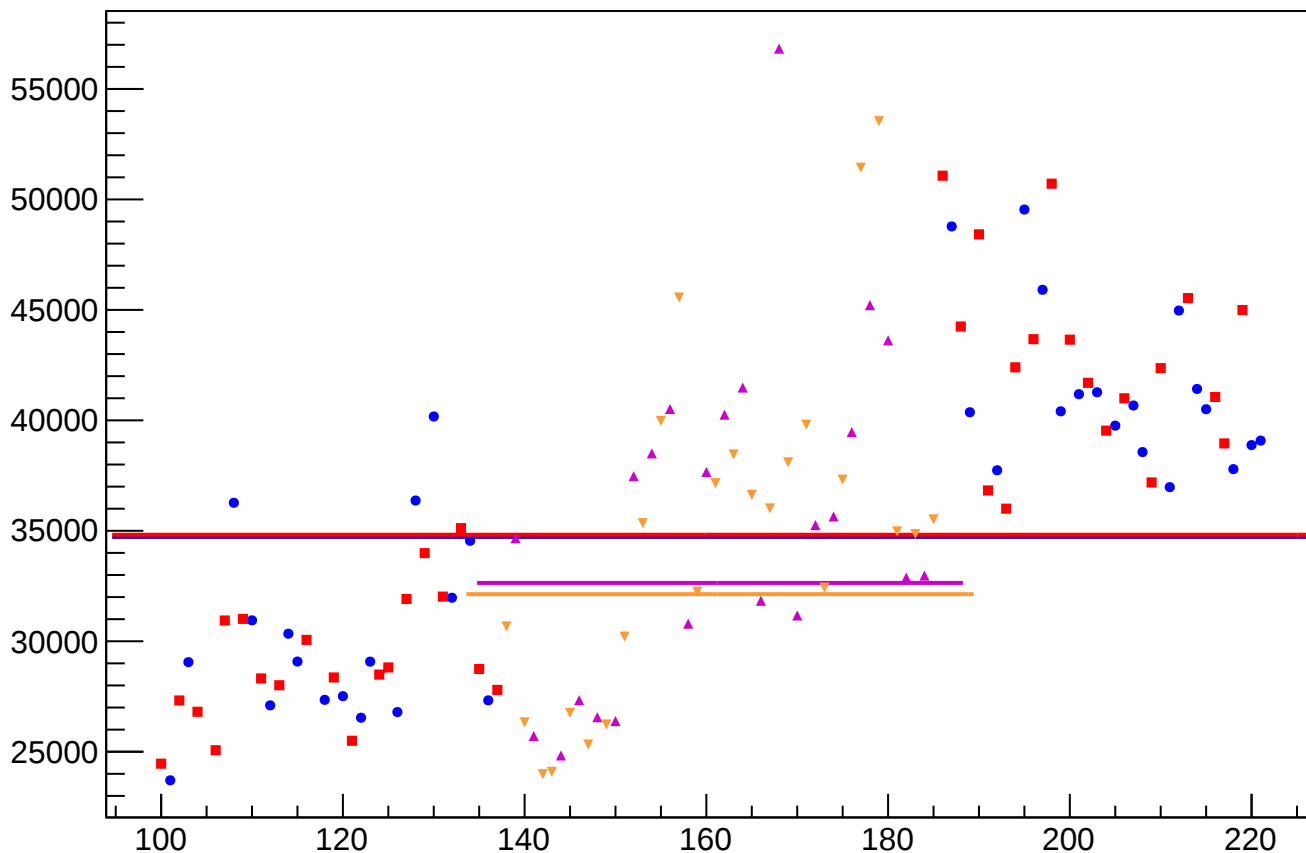
Right: -5.211 ± 5.660 $\chi^2/\text{NDF}: 84.6/71$

In: 2.452 ± 5.635 $\chi^2/\text{NDF}: 53.8/57$

Out: -6.681 ± 5.562 $\chi^2/\text{NDF}: 74.6/61$

All: -2.174 ± 3.958 $\chi^2/\text{NDF}: 129.8/119$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34725.480 ± 5.620

χ^2/NDF : $1484048.3/34$

Left: 32376.774 ± 3.916 χ^2/NDF : $2946456.2/47$

Right: 34772.843 ± 4.002 χ^2/NDF : $3091414.8/71$

Left Out: 32132.314 ± 5.433

χ^2/NDF : $1540079.4/24$

In: 33688.822 ± 3.985 χ^2/NDF : $2954616.2/57$

Right Out: 34821.569 ± 5.701

χ^2/NDF : $1607222.4/36$

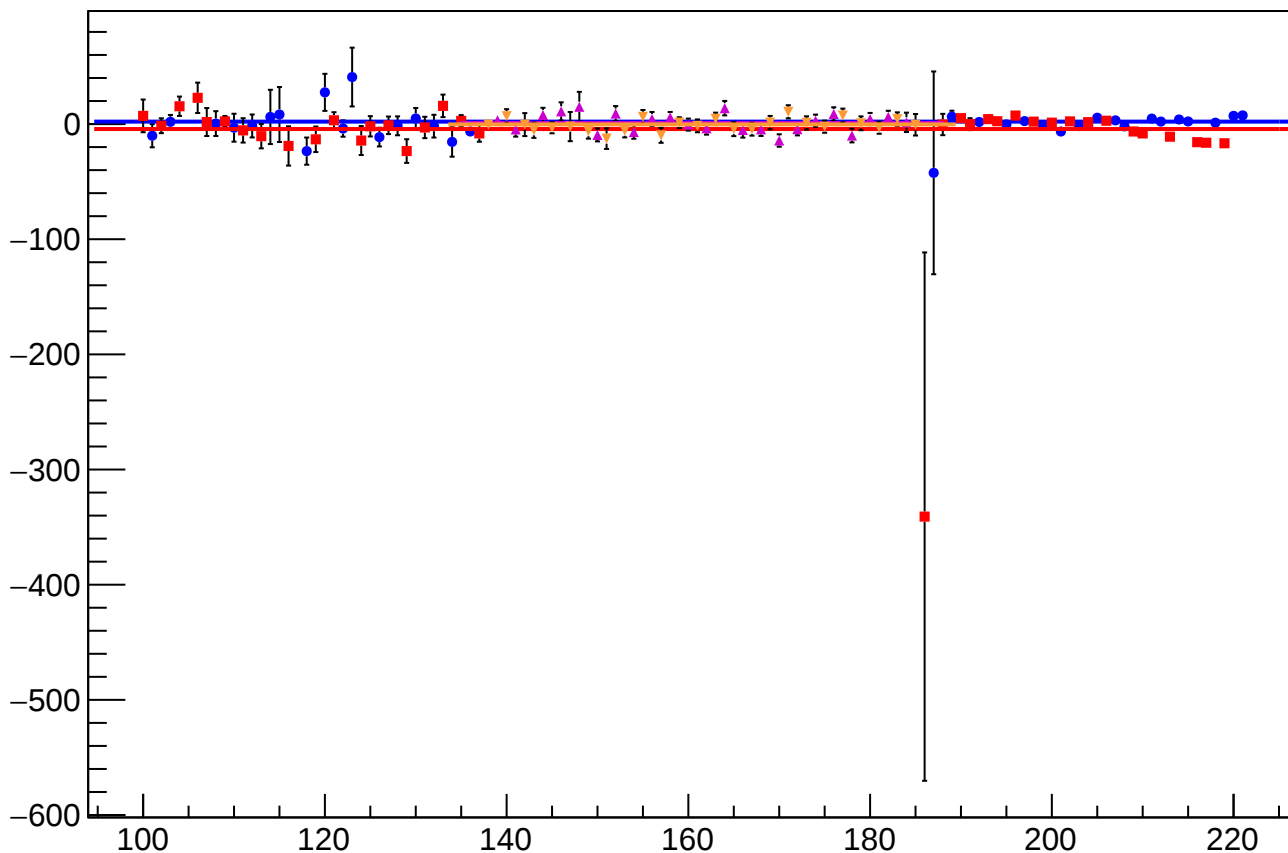
Out: 33412.318 ± 3.933 χ^2/NDF : $3263924.1/61$

Left In: 32641.162 ± 5.650

χ^2/NDF : $1402162.4/22$

All: 33548.764 ± 2.799 χ^2/NDF : $6220979.4/131$

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 2.123 ± 0.602 $\chi^2/\text{NDF}: 52.6/34$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -4.315 ± 0.655 $\chi^2/\text{NDF}: 170.2/36$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

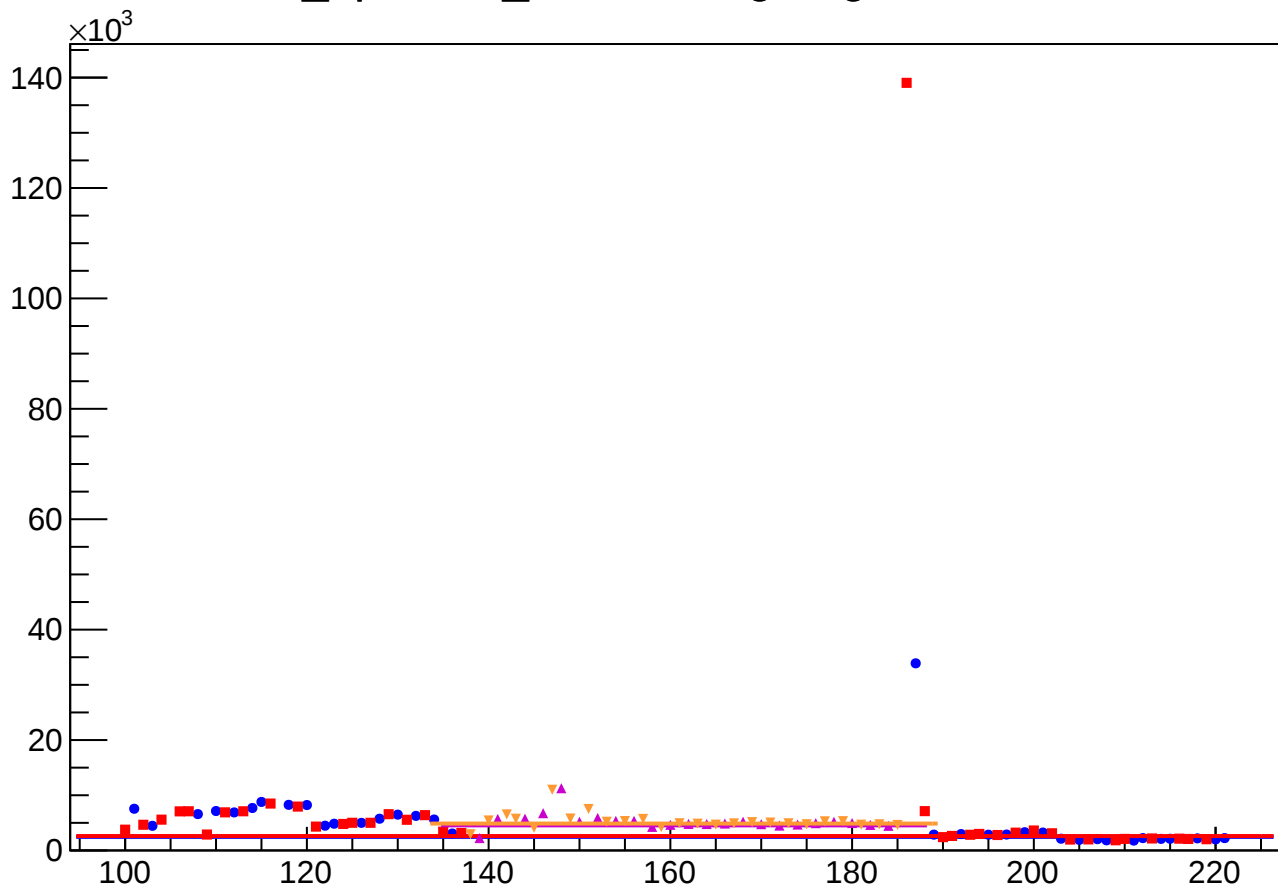
Right: -0.823 ± 0.443 $\chi^2/\text{NDF}: 275.2/71$

In: 1.859 ± 0.533 $\chi^2/\text{NDF}: 89.7/57$

Out: -3.361 ± 0.572 $\chi^2/\text{NDF}: 196.8/61$

All: -0.565 ± 0.390 $\chi^2/\text{NDF}: 331.0/119$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2464.517 $\pm$ 0.426 χ^2/NDF : 5668648.1/34

Left Out: 4868.567 $\pm$ 0.829 χ^2/NDF : 1511151.0/24

Right Out: 2606.576 $\pm$ 0.464 χ^2/NDF : 6206584.5/36

Left In: 4544.337 $\pm$ 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 $\pm$ 0.578 χ^2/NDF : 4223993.0/47

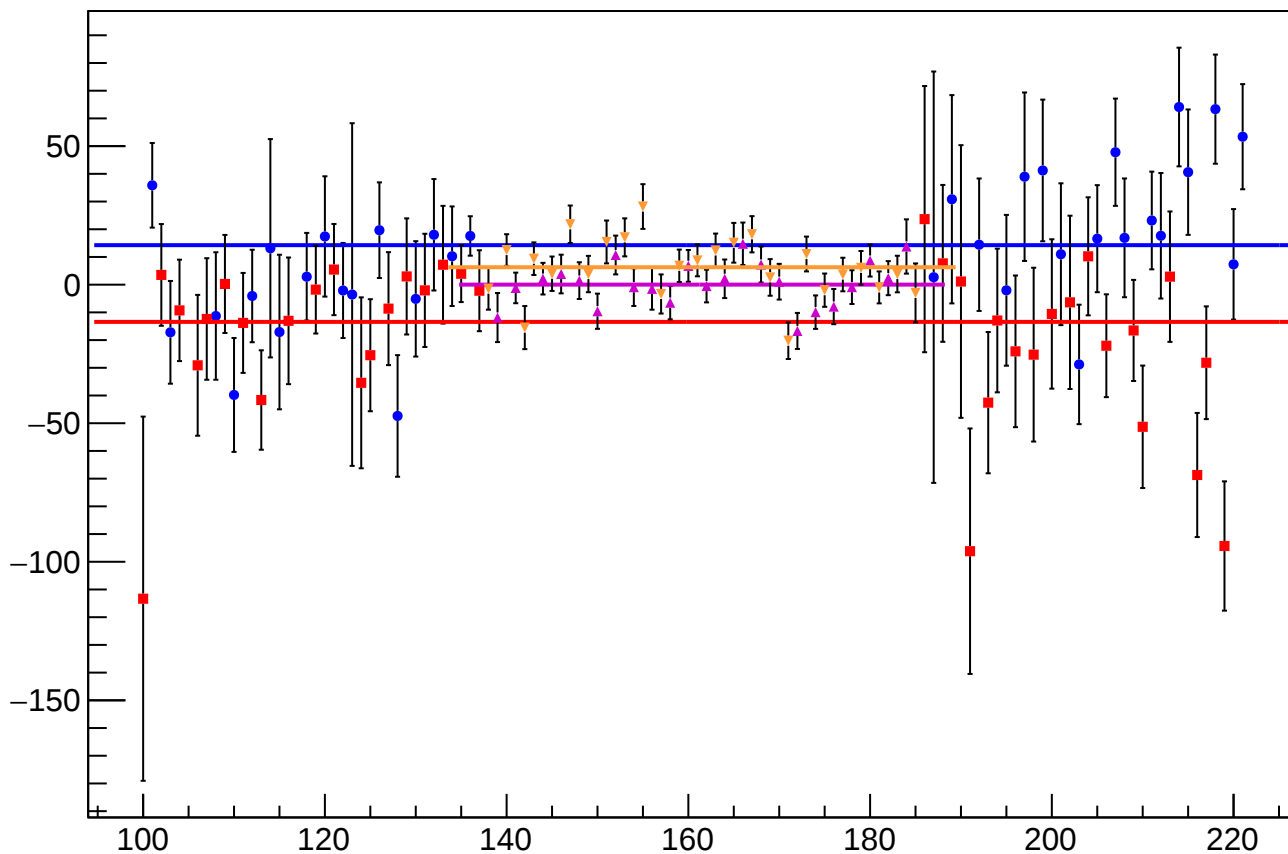
Right: 2529.508 $\pm$ 0.314 χ^2/NDF : 11926193.0/71

In: 2916.608 $\pm$ 0.377 χ^2/NDF : 13492922.0/57

Out: 3145.776 $\pm$ 0.405 χ^2/NDF : 13394959.4/61

All: 3023.000 $\pm$ 0.276 χ^2/NDF : 27059838.6/131

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 14.258 ± 3.248 $\chi^2/\text{NDF}: 53.2/34$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -13.430 ± 3.442 $\chi^2/\text{NDF}: 44.7/36$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

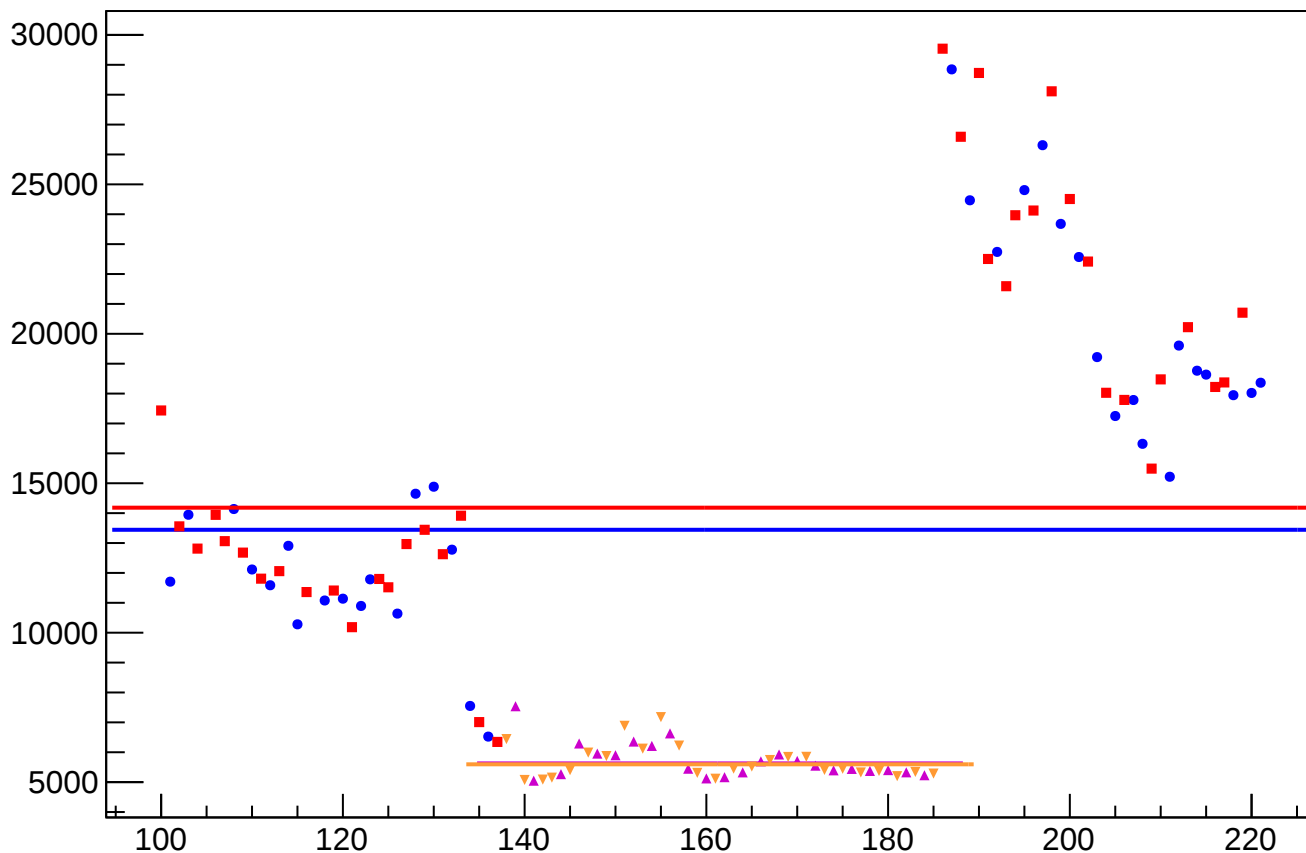
Right: 1.216 ± 2.362 $\chi^2/\text{NDF}: 132.1/71$

In: 2.126 ± 1.249 $\chi^2/\text{NDF}: 99.5/57$

Out: 3.799 ± 1.224 $\chi^2/\text{NDF}: 129.9/61$

All: 2.979 ± 0.874 $\chi^2/\text{NDF}: 230.3/119$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13443.027 $\pm$ 2.296 χ^2/NDF : 5321840.5/34

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF : 283998.1/24

Right Out: 14182.719 $\pm$ 2.434 χ^2/NDF : 4982562.7/36

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

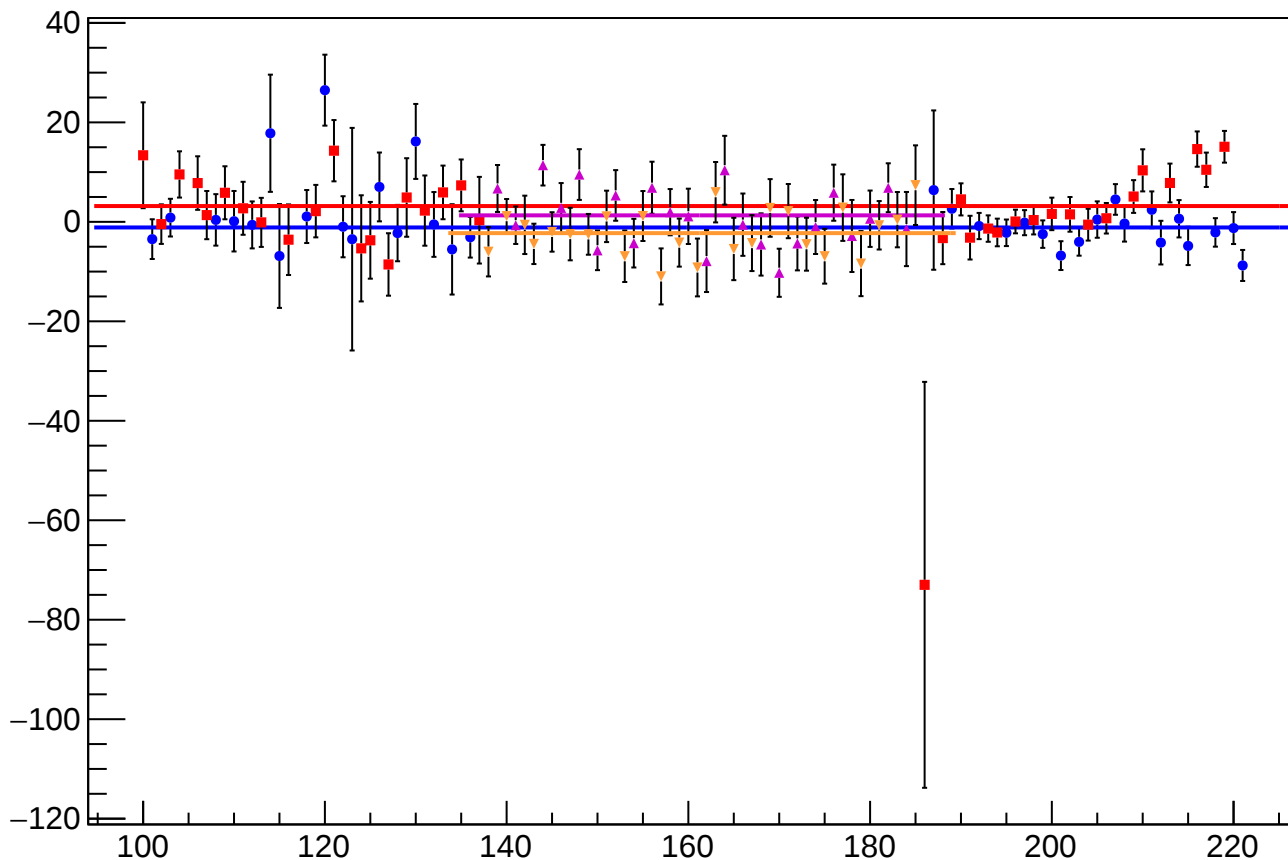
Right: 13791.442 $\pm$ 1.670 χ^2/NDF : 10353271.1/71

In: 6783.272 $\pm$ 0.883 χ^2/NDF : 15470891.4/57

Out: 6683.188 $\pm$ 0.866 χ^2/NDF : 16139110.7/61

All: 6732.236 $\pm$ 0.618 χ^2/NDF : 31616550.5/100

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.128 ± 0.669 χ^2/NDF : 44.8/34

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 3.176 ± 0.679 χ^2/NDF : 67.8/36

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

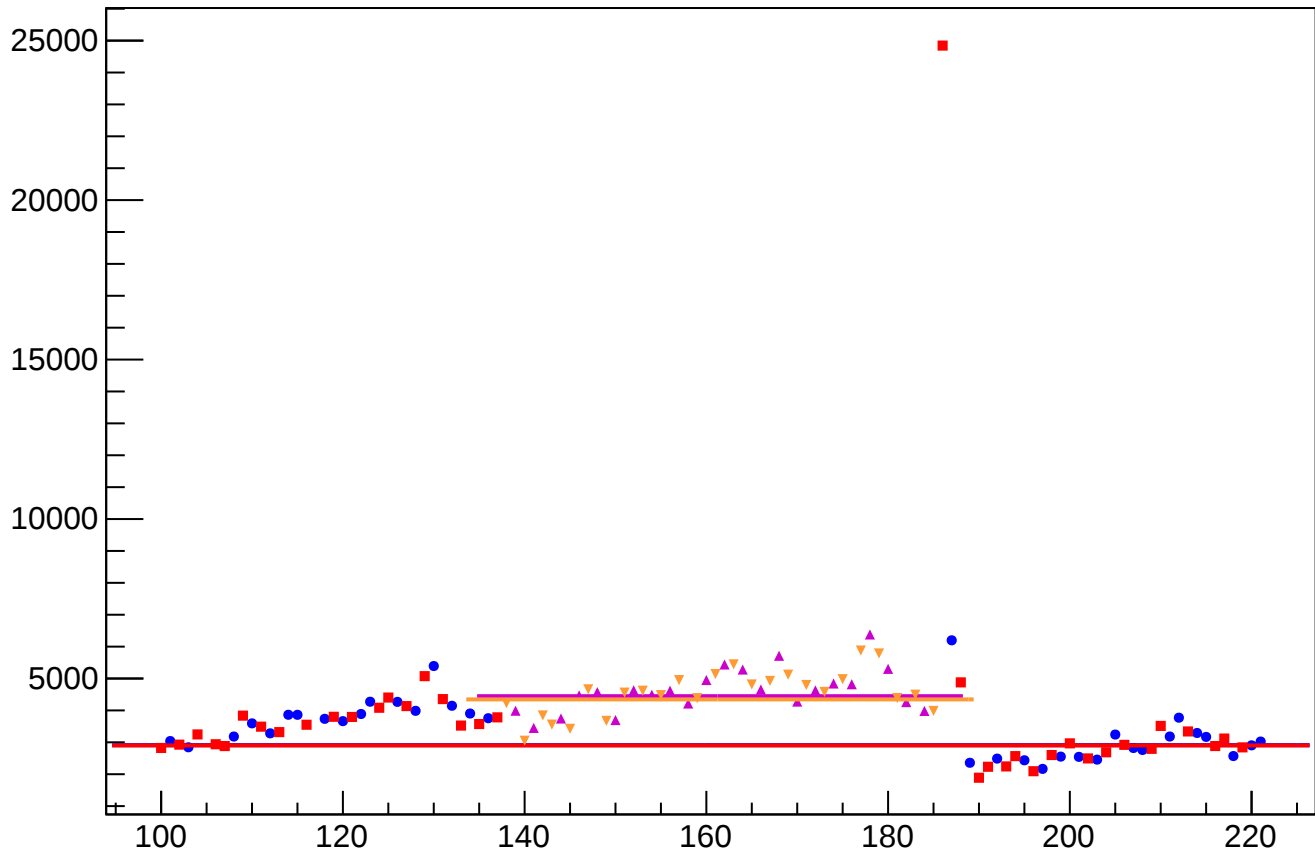
Right: 0.990 ± 0.476 χ^2/NDF : 133.0/71

In: -0.451 ± 0.568 χ^2/NDF : 79.3/57

Out: 1.525 ± 0.567 χ^2/NDF : 102.6/61

All: 0.539 ± 0.401 χ^2/NDF : 188.0/119

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2910.744+/-0.473 χ^2/NDF : 1451655.4/34

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2902.163+/-0.480 χ^2/NDF : 2347149.3/36

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

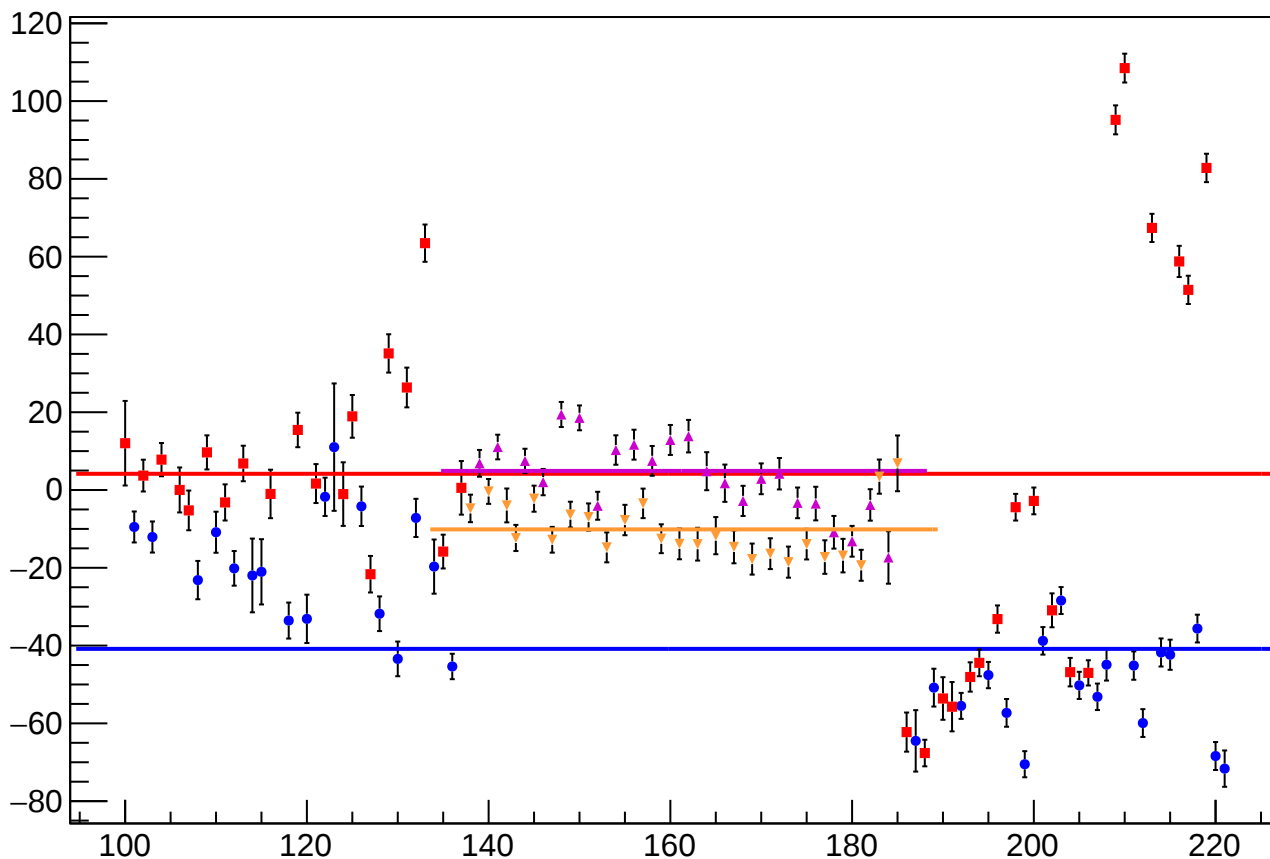
Right: 2906.521+/-0.337 χ^2/NDF : 3798966.8/71

In: 3337.803+/-0.402 χ^2/NDF : 5088553.6/57

Out: 3339.867+/-0.401 χ^2/NDF : 6086522.4/61

All: 3338.837+/-0.284 χ^2/NDF : 11175089.3/118

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.846 ± 0.710 χ^2/NDF : 686.6/34

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: 4.170 ± 0.709 χ^2/NDF : 4637.8/36

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

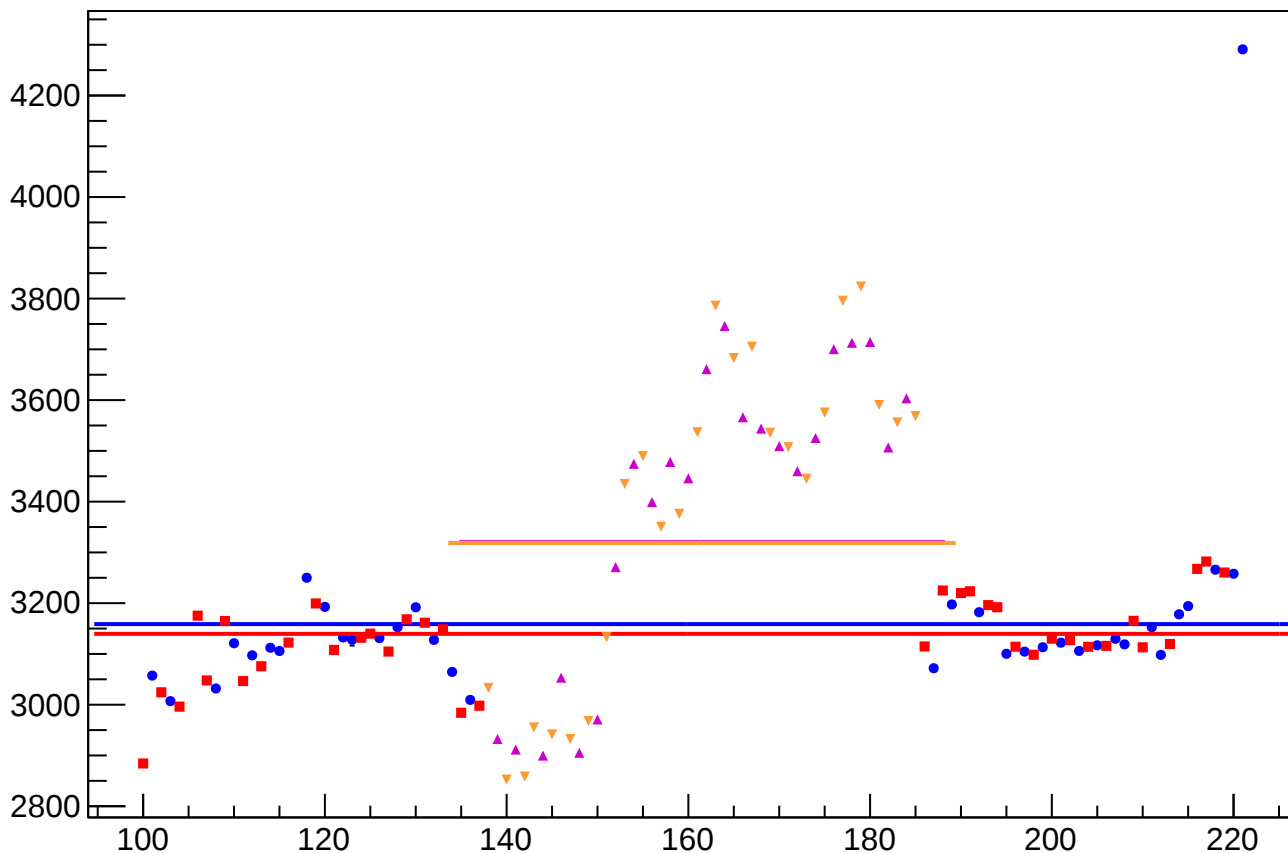
Right: -18.308 ± 0.502 χ^2/NDF : 7337.3/71

In: -20.605 ± 0.530 χ^2/NDF : 2652.1/57

Out: -2.339 ± 0.523 χ^2/NDF : 4890.8/61

All: -11.352 ± 0.372 χ^2/NDF : 8144.2/119

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3158.765 $\pm$ 0.502 χ^2/NDF : 136533.2/34

Left Out: 3318.506 $\pm$ 0.548 χ^2/NDF : 337694.2/24

Right Out: 3139.560 $\pm$ 0.501 χ^2/NDF : 22191.0/36

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

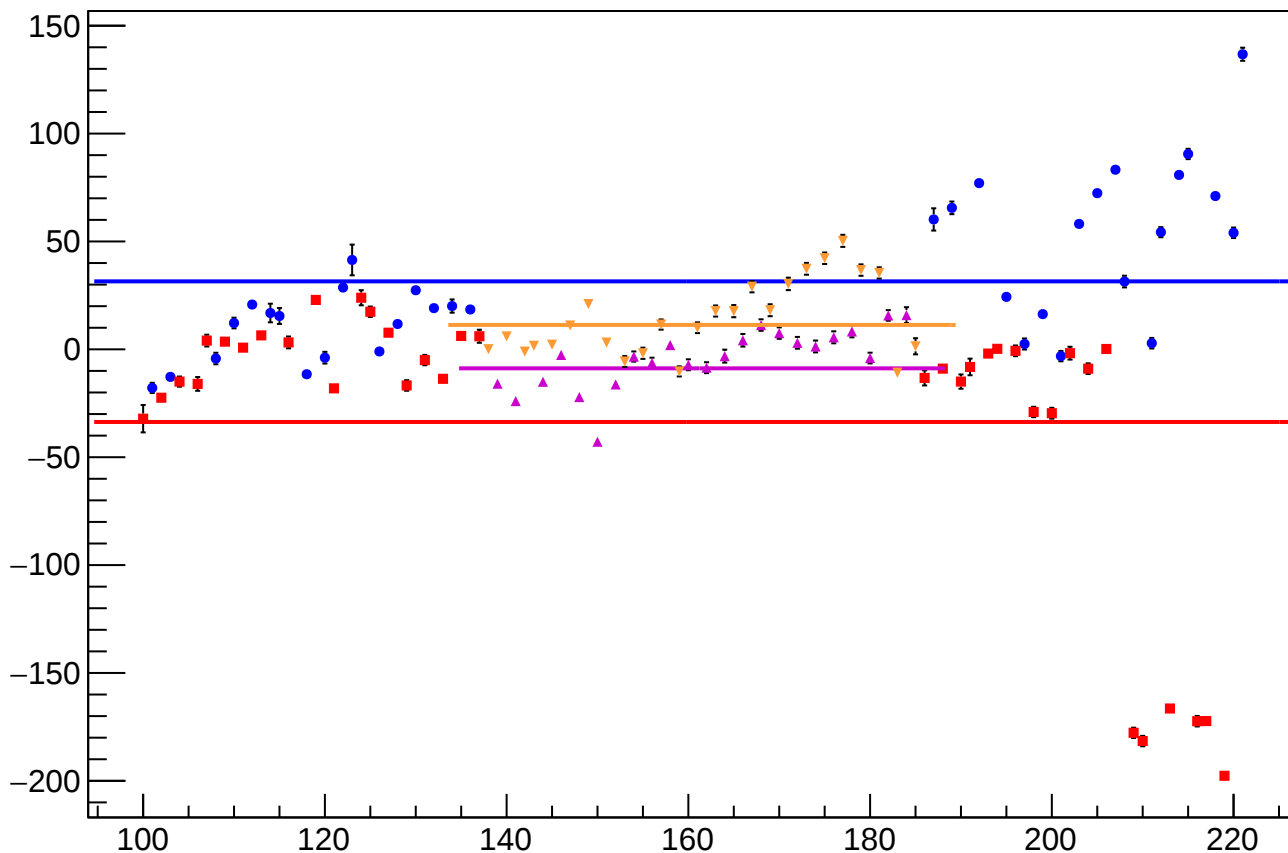
Right: 3149.149 $\pm$ 0.355 χ^2/NDF : 159457.0/71

In: 3230.162 $\pm$ 0.375 χ^2/NDF : 469895.5/57

Out: 3221.035 $\pm$ 0.370 χ^2/NDF : 417896.2/61

All: 3225.539 $\pm$ 0.263 χ^2/NDF : 888091.8/119

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 31.503+/-0.403 χ^2/NDF : 7125.3/34

Left Out: 11.305+/-0.454 χ^2/NDF : 1144.3/24

Right Out: -33.667+/-0.398 χ^2/NDF : 28505.1/36

Left In: -8.815+/-0.475 χ^2/NDF : 942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

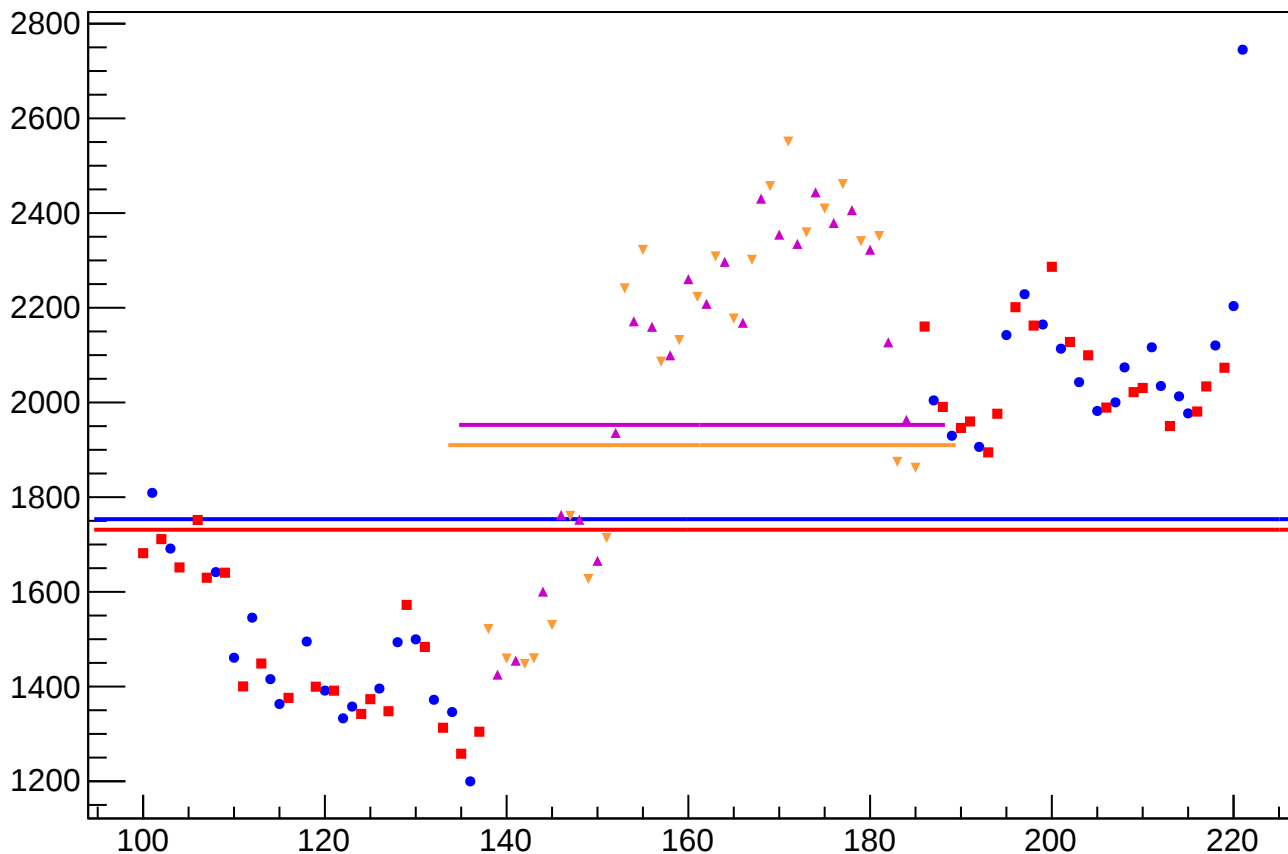
Right: -1.449+/-0.283 χ^2/NDF : 48878.0/71

In: 14.662+/-0.307 χ^2/NDF : 12256.2/57

Out: -14.111+/-0.299 χ^2/NDF : 35198.3/61

All: -0.101+/-0.214 χ^2/NDF : 51954.8/119

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1753.524 $\pm$ 0.285 χ^2/NDF : 1610517.9/34

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF : 1399467.7/24

Right Out: 1731.214 $\pm$ 0.282 χ^2/NDF : 1292797.0/36

Left In: 1952.637 $\pm$ 0.336 χ^2/NDF : 1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2/NDF : 2473233.3/47

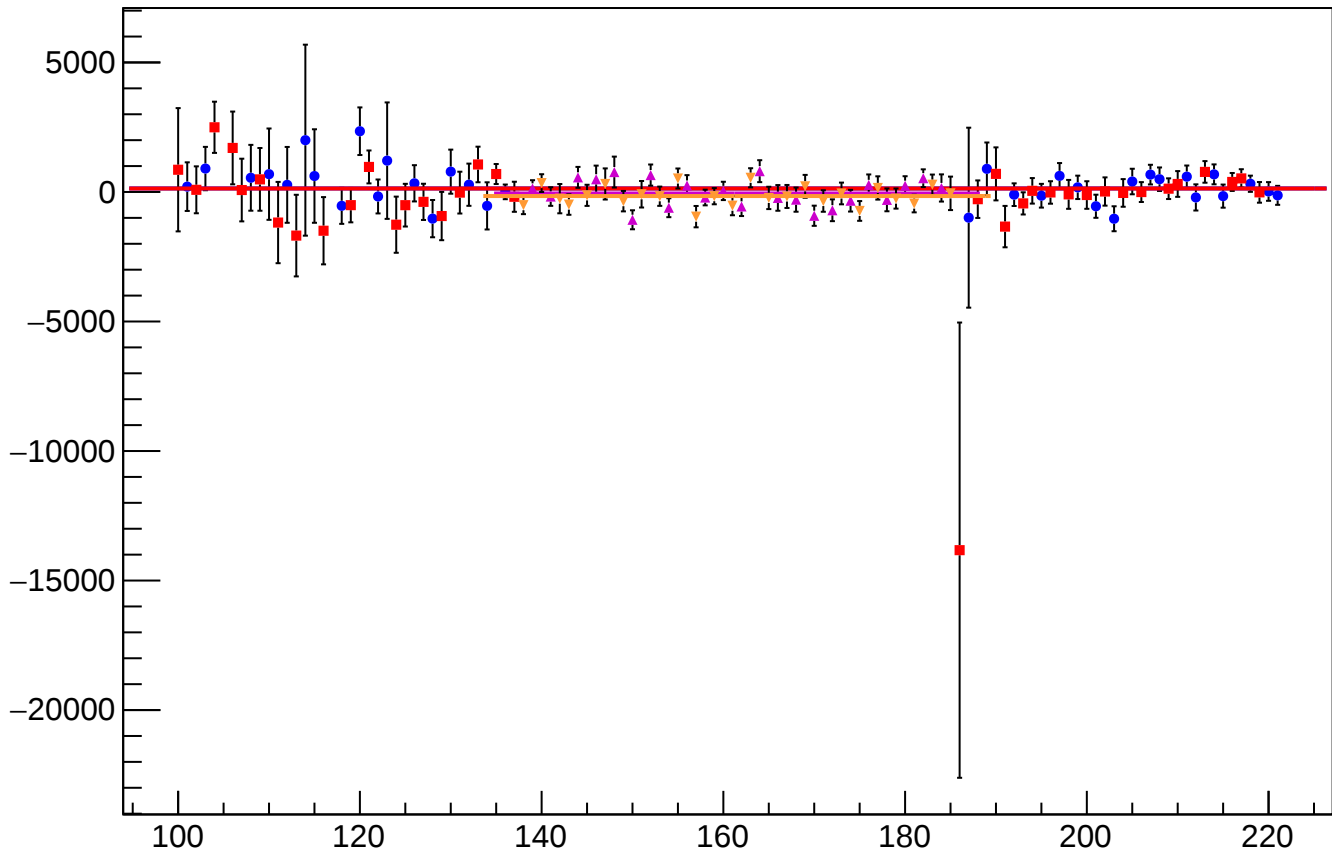
Right: 1742.243 $\pm$ 0.200 χ^2/NDF : 2906420.0/71

In: 1836.695 $\pm$ 0.217 χ^2/NDF : 2880171.9/57

Out: 1808.944 $\pm$ 0.212 χ^2/NDF : 2867594.1/61

All: 1822.456 $\pm$ 0.152 χ^2/NDF : 5756138.9/11

asym_sam1_mean vs Slug, Sign Corrected



Right In: 136.567+/-90.380 χ^2/NDF : 31.1/34

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 133.765+/-96.368 χ^2/NDF : 35.3/36

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

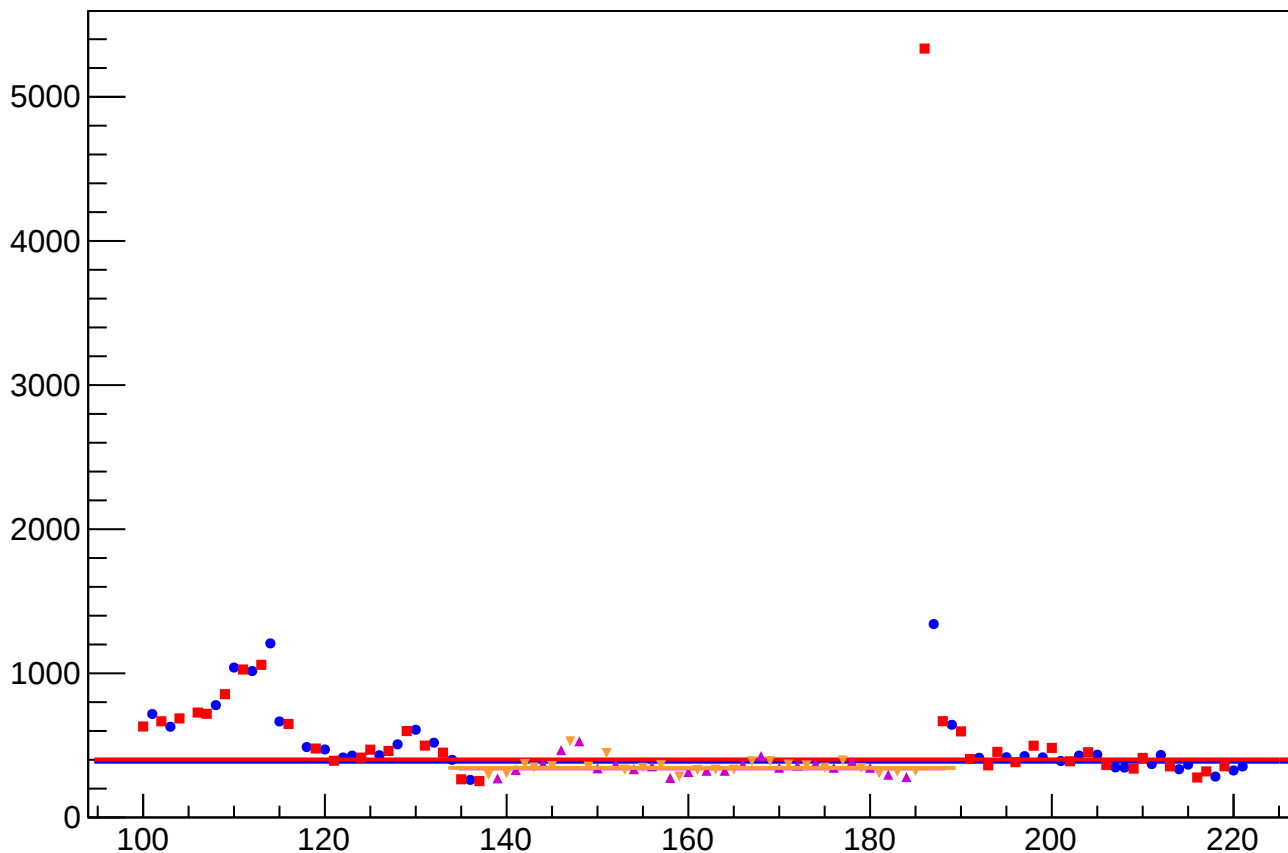
Right: 135.256+/-65.924 χ^2/NDF : 66.4/71

In: 30.023+/-60.966 χ^2/NDF :72.2/57

Out: -37.121+/-61.914 χ^2/NDF :62.7/61

All: -3.031+/-43.441 χ^2/NDF : 135.5/119

asym_sam1_rms vs Slug, Sign Corrected



Right In: 386.860 $\pm$ 0.064 χ^2 /NDF: 2854197.6/34

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 402.296 $\pm$ 0.068 χ^2 /NDF: 3820527.6/36

Left In: 340.876 $\pm$ 0.058 χ^2 /NDF: 724672.0/22

Left: 342.374 $\pm$ 0.041 χ^2 /NDF: 1265389.7/47

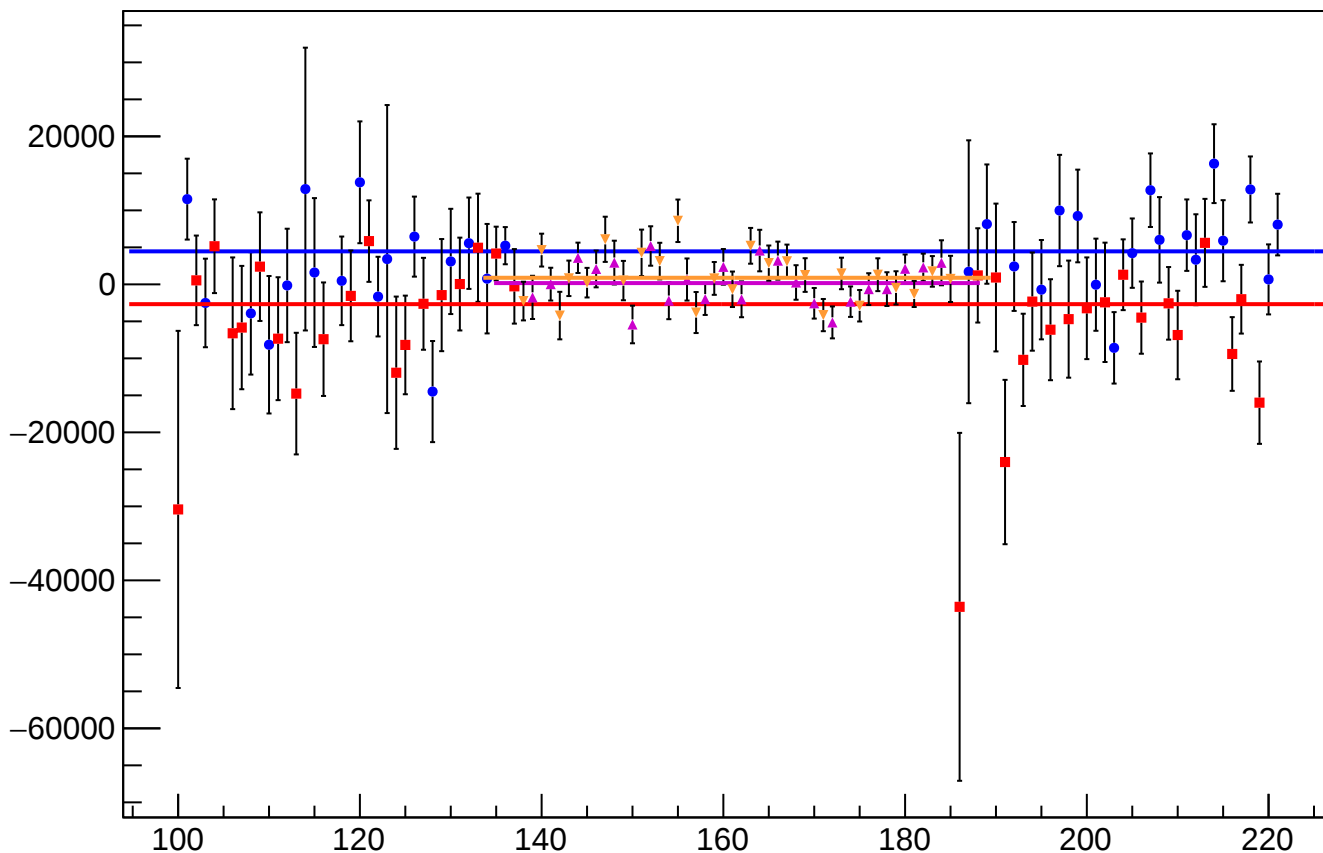
Right: 394.083 $\pm$ 0.047 χ^2 /NDF: 6702023.7/71

In: 361.800 $\pm$ 0.043 χ^2 /NDF: 3861018.2/57

Out: 367.950 $\pm$ 0.044 χ^2 /NDF: 4792587.3/61

All: 364.827 $\pm$ 0.031 χ^2 /NDF: 8663623.5/119

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4460.063 $\pm$ 970.386 χ^2 /NDF: 40.7/34

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2674.625 $\pm$ 1050.260 χ^2 /NDF: 35.6/36

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

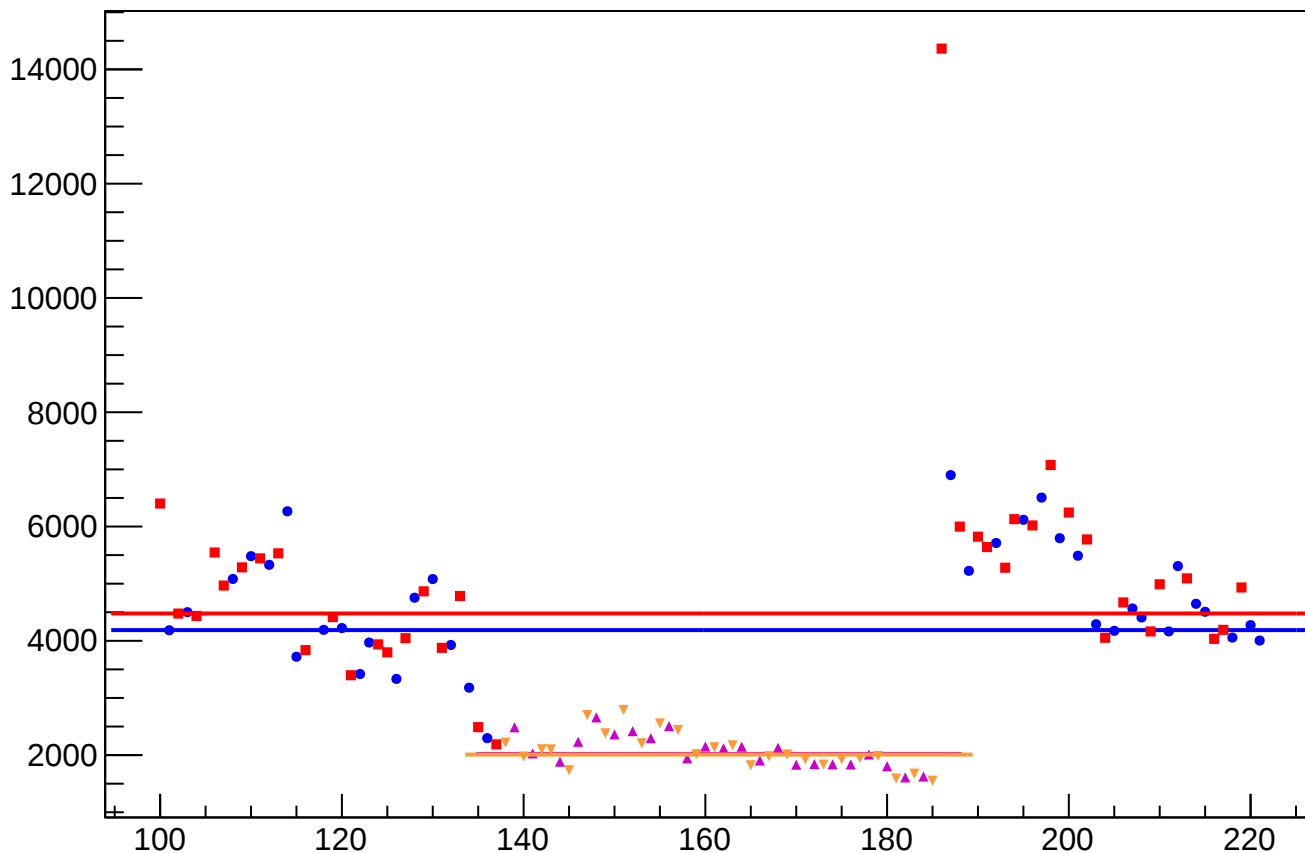
Right: 1174.308 $\pm$ 712.733 χ^2 /NDF: 101.2/71

In: 1038.059 $\pm$ 436.023 χ^2 /NDF:89.5/57

Out: 288.686 $\pm$ 431.479 χ^2 /NDF:83.1/61

All: 659.447 $\pm$ 306.695 χ^2 /NDF: 174.1/119

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4187.612 $\pm$ 0.686 χ^2 /NDF: 2343404.3/34

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4478.422 $\pm$ 0.743 χ^2 /NDF: 2577422.1/36

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

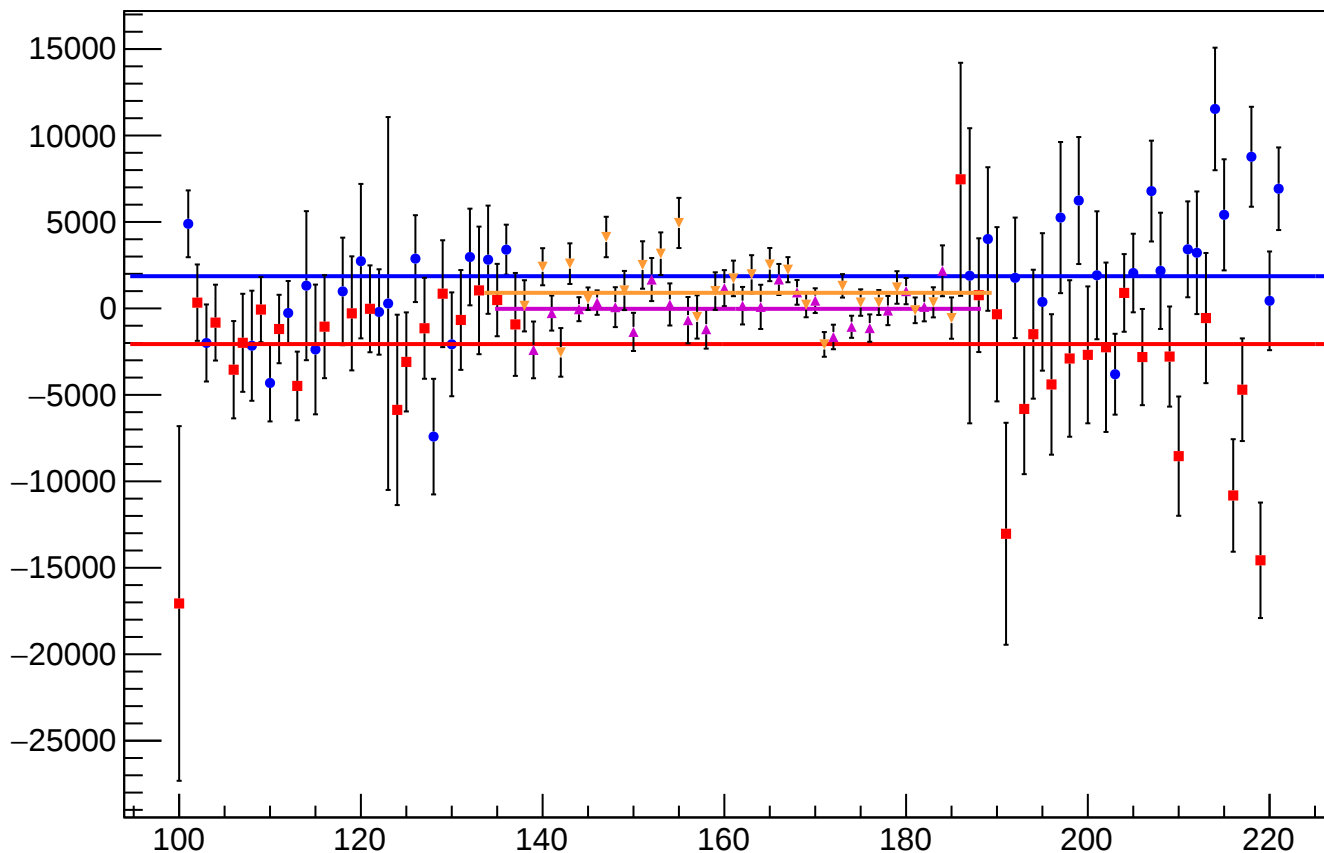
Right: 4321.539 $\pm$ 0.504 χ^2 /NDF: 5003548.2/71

In: 2457.926 $\pm$ 0.308 χ^2 /NDF: 10878791.3/57

Out: 2426.317 $\pm$ 0.305 χ^2 /NDF: 12473262.7/61

All: 2441.956 $\pm$ 0.217 χ^2 /NDF: 23357364.4/121

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1863.495 $\pm$ 477.598 χ^2/NDF : 59.9/34

Left Out: 902.091 $\pm$ 185.850 χ^2/NDF : 63.5/24

Right Out: -2061.735 $\pm$ 489.576 χ^2/NDF : 46.7/36

Left In: -23.529 $\pm$ 188.137 χ^2/NDF : 28.2/22

Left: 444.940 $\pm$ 132.217 χ^2/NDF : 104.0/47

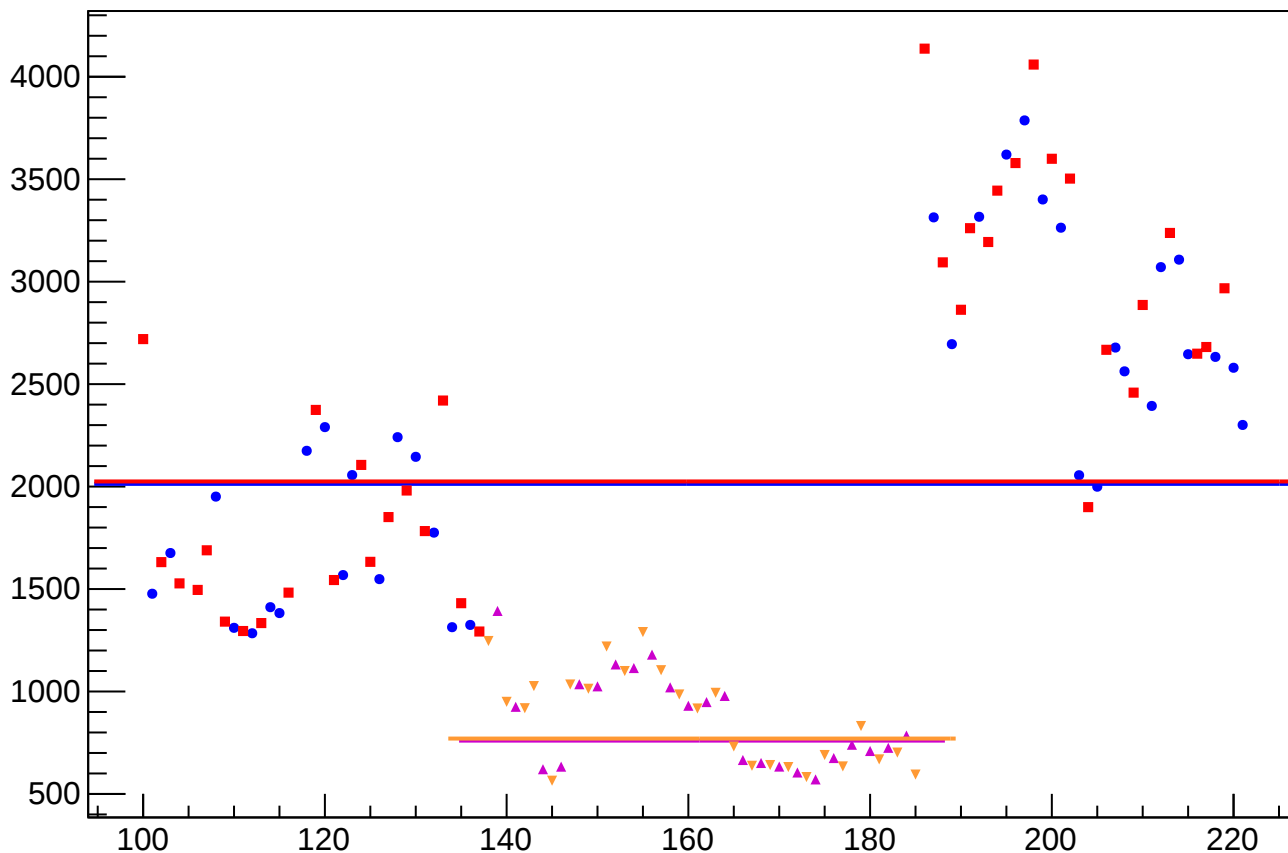
Right: -50.515 $\pm$ 341.869 χ^2/NDF : 139.6/71

In: 229.956 $\pm$ 175.045 χ^2/NDF : 101.7/57

Out: 528.779 $\pm$ 173.752 χ^2/NDF : 142.3/61

All: 380.475 $\pm$ 123.316 χ^2/NDF : 245.4/119

asym_sam3_rms vs Slug, Sign Corrected



Right In: 2013.240+/-0.338 χ^2/NDF : 3925650.9/34

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 2025.034+/-0.346 χ^2/NDF : 4613699.2/36

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

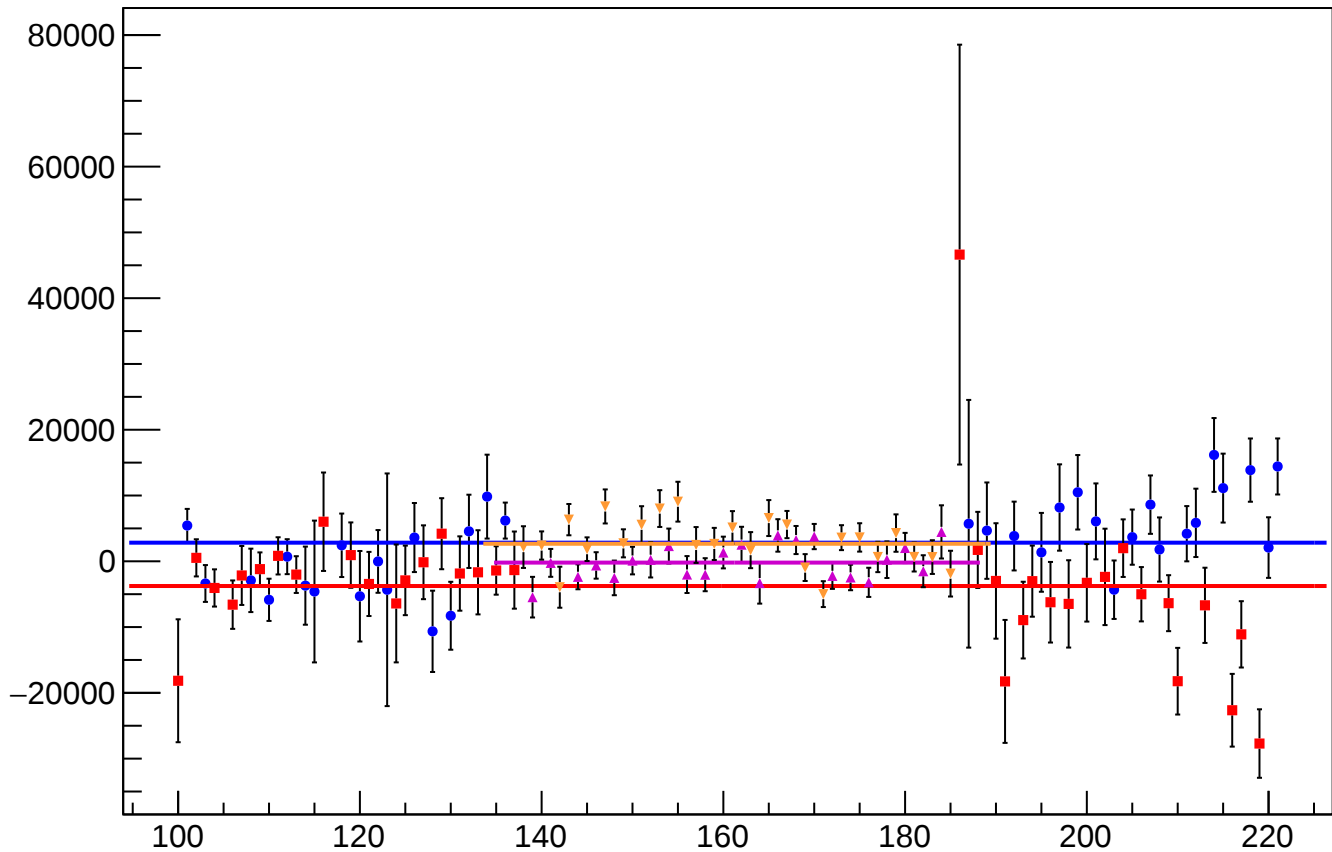
Right: 2018.991+/-0.242 χ^2/NDF : 8539944.9/71

In: 928.653+/-0.124 χ^2/NDF : 17827077.3/57

Out: 928.359+/-0.123 χ^2/NDF : 18383246.4/61

All: 928.505+/-0.087 χ^2/NDF : 36210326.5/118

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2830.504 ± 771.079 $\chi^2/\text{NDF}: 59.8/34$

Left Out: 2665.587 ± 479.773 $\chi^2/\text{NDF}: 49.2/24$

Right Out: -3758.799 ± 760.938 $\chi^2/\text{NDF}: 68.1/36$

Left In: -199.371 ± 492.082 $\chi^2/\text{NDF}: 25.8/22$

Left: 1269.388 ± 343.520 $\chi^2/\text{NDF}: 92.4/47$

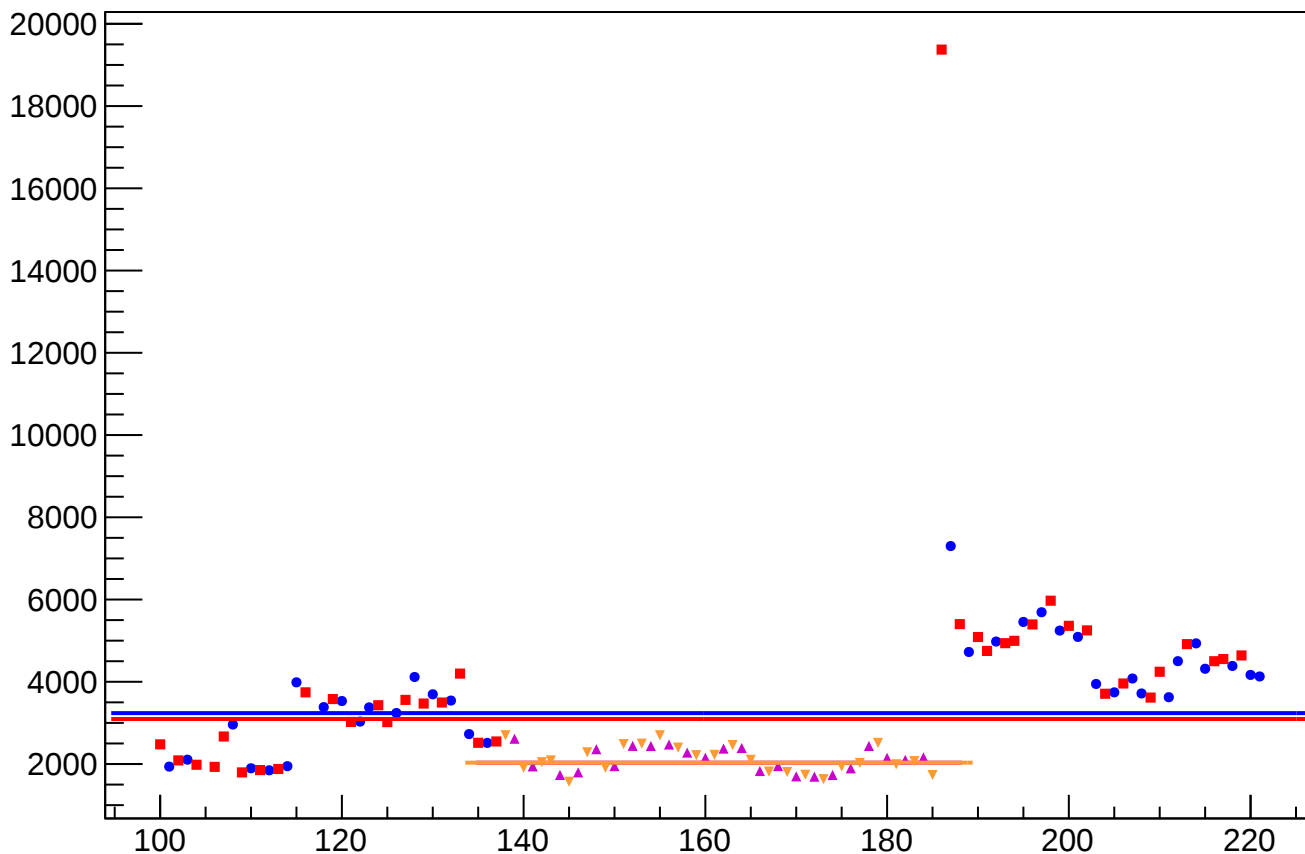
Right: -507.762 ± 541.614 $\chi^2/\text{NDF}: 164.9/71$

In: 677.481 ± 414.810 $\chi^2/\text{NDF}: 96.6/57$

Out: 838.148 ± 405.840 $\chi^2/\text{NDF}: 168.3/61$

All: 759.571 ± 290.092 $\chi^2/\text{NDF}: 265.0/119$

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3237.939 $\pm$ 0.545 χ^2 /NDF: 4351526.9/34

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF:824062.2/24

Right Out: 3095.115 $\pm$ 0.538 χ^2 /NDF: 5786790.7/36

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF:652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

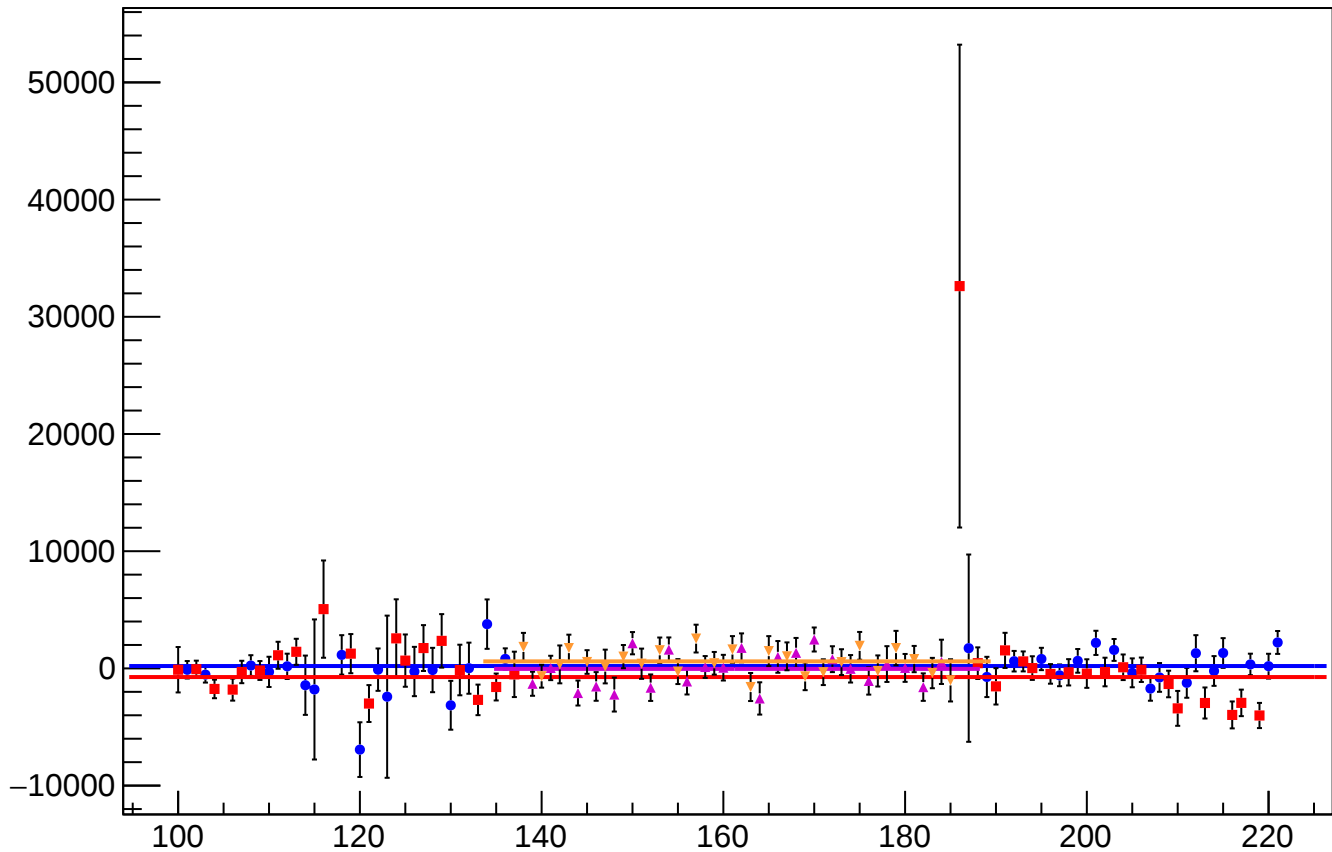
Right: 3165.582 $\pm$ 0.383 χ^2 /NDF: 10173080.7/71

In: 2381.466 $\pm$ 0.293 χ^2 /NDF:8476736.9/57

Out: 2335.363 $\pm$ 0.287 χ^2 /NDF:9397209.4/61

All: 2357.911 $\pm$ 0.205 χ^2 /NDF: 17886568.9/121

asym_sam5_mean vs Slug, Sign Corrected



Right In: 202.385+/-200.797 χ^2/NDF : 36.7/34

Left Out: 600.005+/-234.968 χ^2/NDF :18.5/24

Right Out: -738.345+/-196.924 χ^2/NDF : 61.7/36

Left In: -41.559+/-240.807 χ^2/NDF :36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

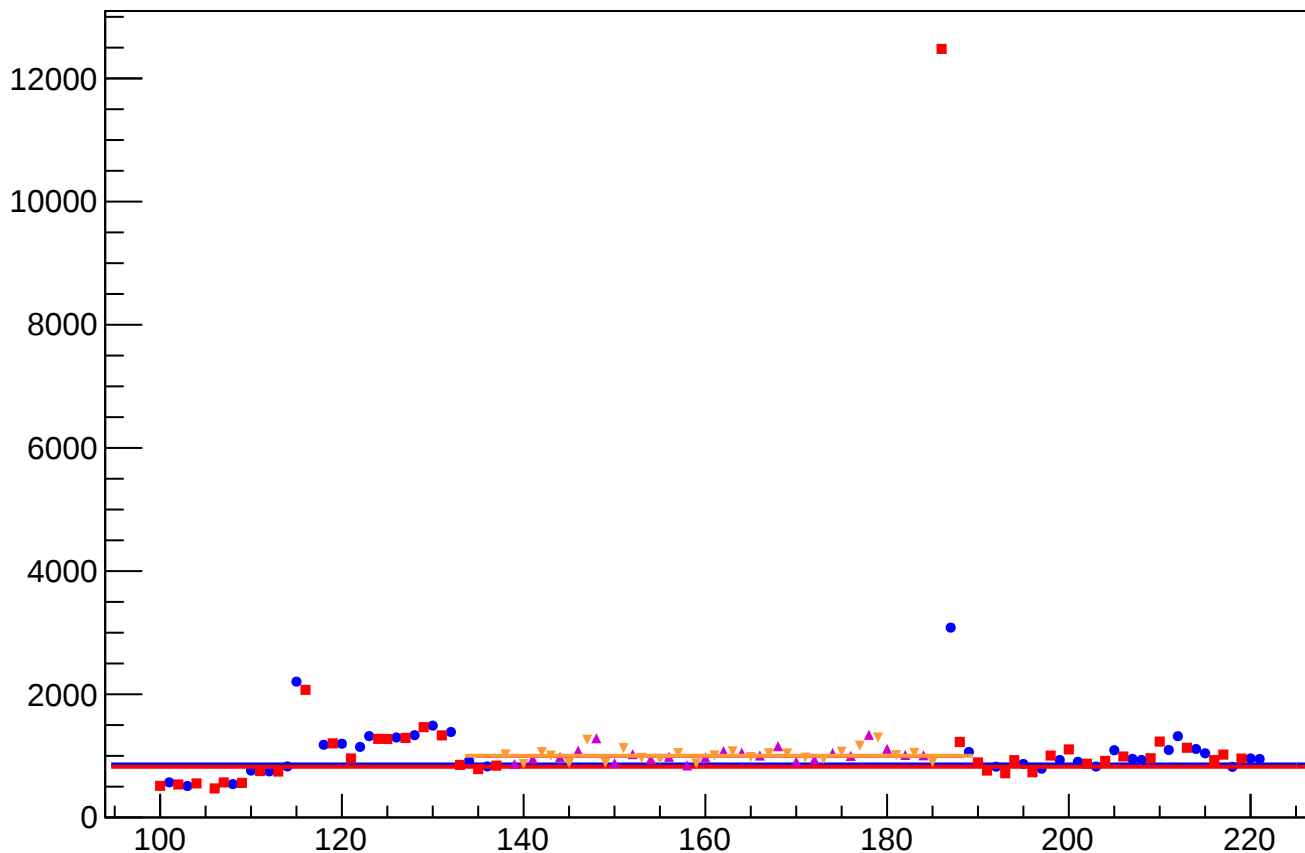
Right: -277.139+/-140.596 χ^2/NDF : 109.7/71

In: 102.335+/-154.217 χ^2/NDF :73.7/57

Out: -186.152+/-150.928 χ^2/NDF :99.3/61

All: -45.018+/-107.866 χ^2/NDF : 174.8/119

asym_sam5_rms vs Slug, Sign Corrected



Right In: 860.568+/-0.142 χ^2/NDF : 2626722.5/34

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 822.888+/-0.139 χ^2/NDF : 3585154.5/36

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

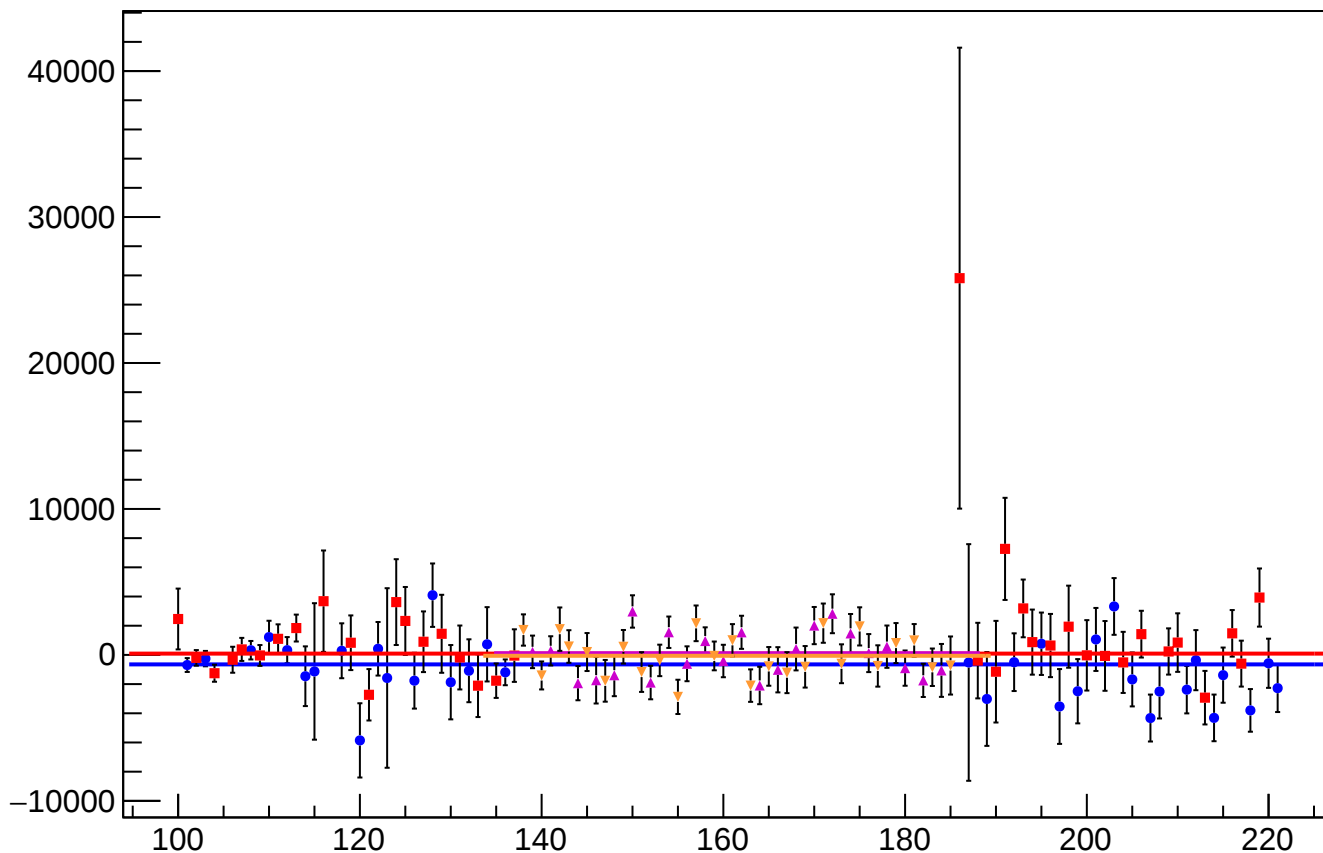
Right: 841.361+/-0.099 χ^2/NDF : 6247777.0/71

In: 916.954+/-0.109 χ^2/NDF : 3415912.8/57

Out: 896.570+/-0.107 χ^2/NDF : 4634090.9/61

All: 906.542+/-0.076 χ^2/NDF : 8067851.6/119

asym_sam6_mean vs Slug, Sign Corrected



Right In: -649.756+/-219.315 χ^2/NDF : 44.4/34

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 88.442+/-220.491 χ^2/NDF : 40.4/36

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

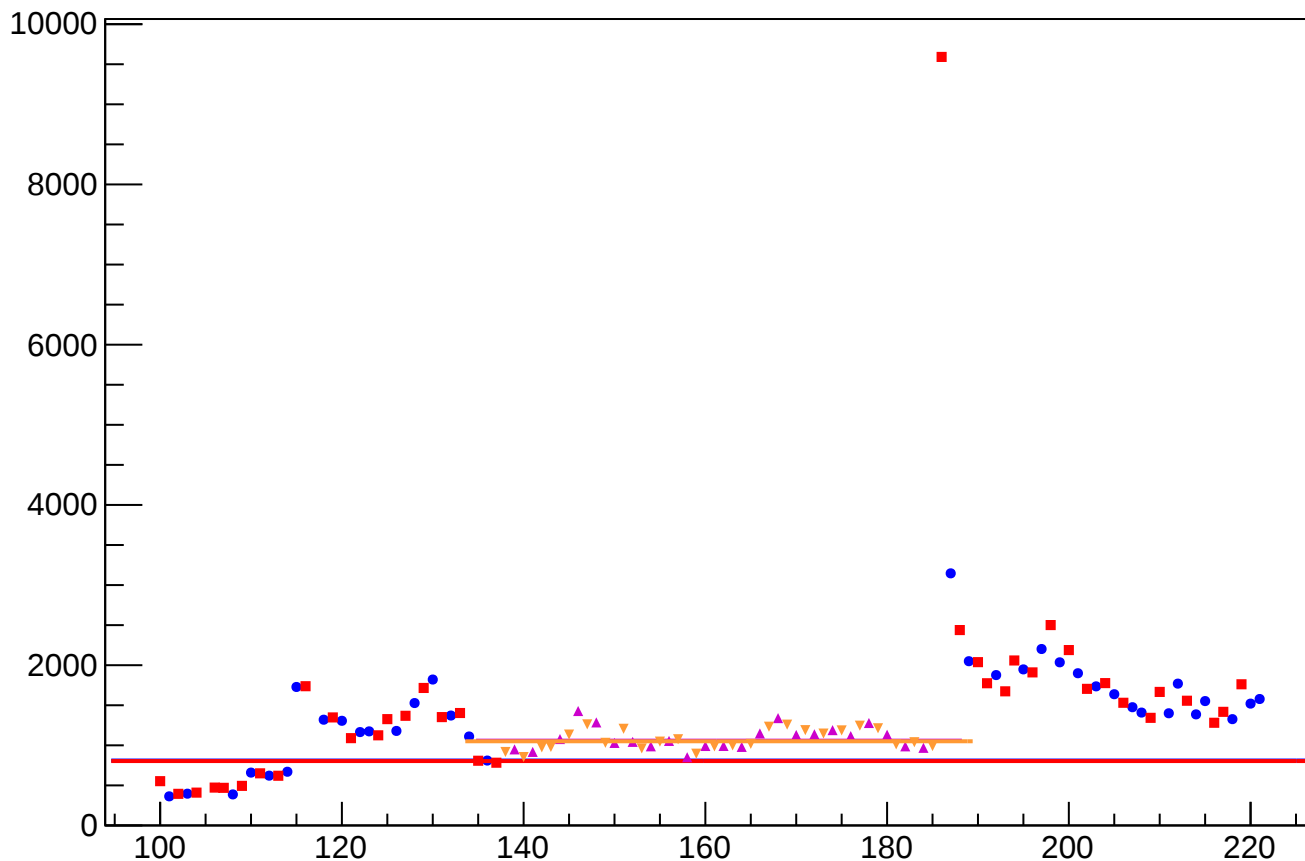
Right: -282.631+/-155.493 χ^2/NDF : 90.5/71

In: -326.295+/-166.390 χ^2/NDF : 84.4/57

Out: 22.541+/-164.340 χ^2/NDF : 71.6/61

All: -149.716+/-116.924 χ^2/NDF : 158.3/119

asym_sam6_rms vs Slug, Sign Corrected



Right In: 810.095+/-0.155 χ^2/NDF : 12233539.7/34

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 803.696+/-0.156 χ^2/NDF : 12170774.3/36

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

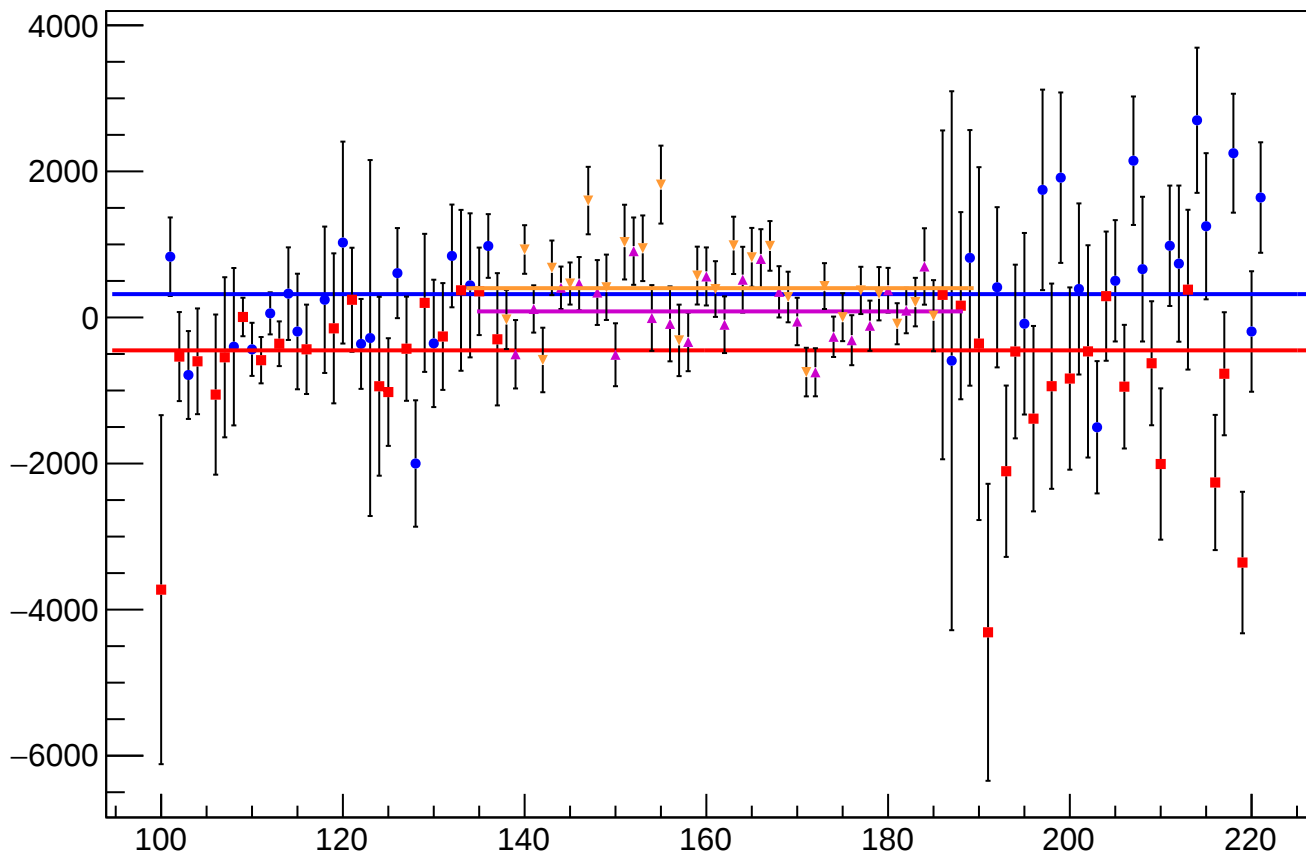
Right: 806.913+/-0.110 χ^2/NDF : 24405160.7/71

In: 915.348+/-0.118 χ^2/NDF : 13847499.2/57

Out: 913.460+/-0.116 χ^2/NDF : 13769031.6/61

All: 914.392+/-0.083 χ^2/NDF : 27616661.2/111

asym_sam7_mean vs Slug, Sign Corrected



Right In: 319.438+/-122.484 χ^2/NDF : 50.9/34

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -450.506+/-116.476 χ^2/NDF : 33.9/36

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

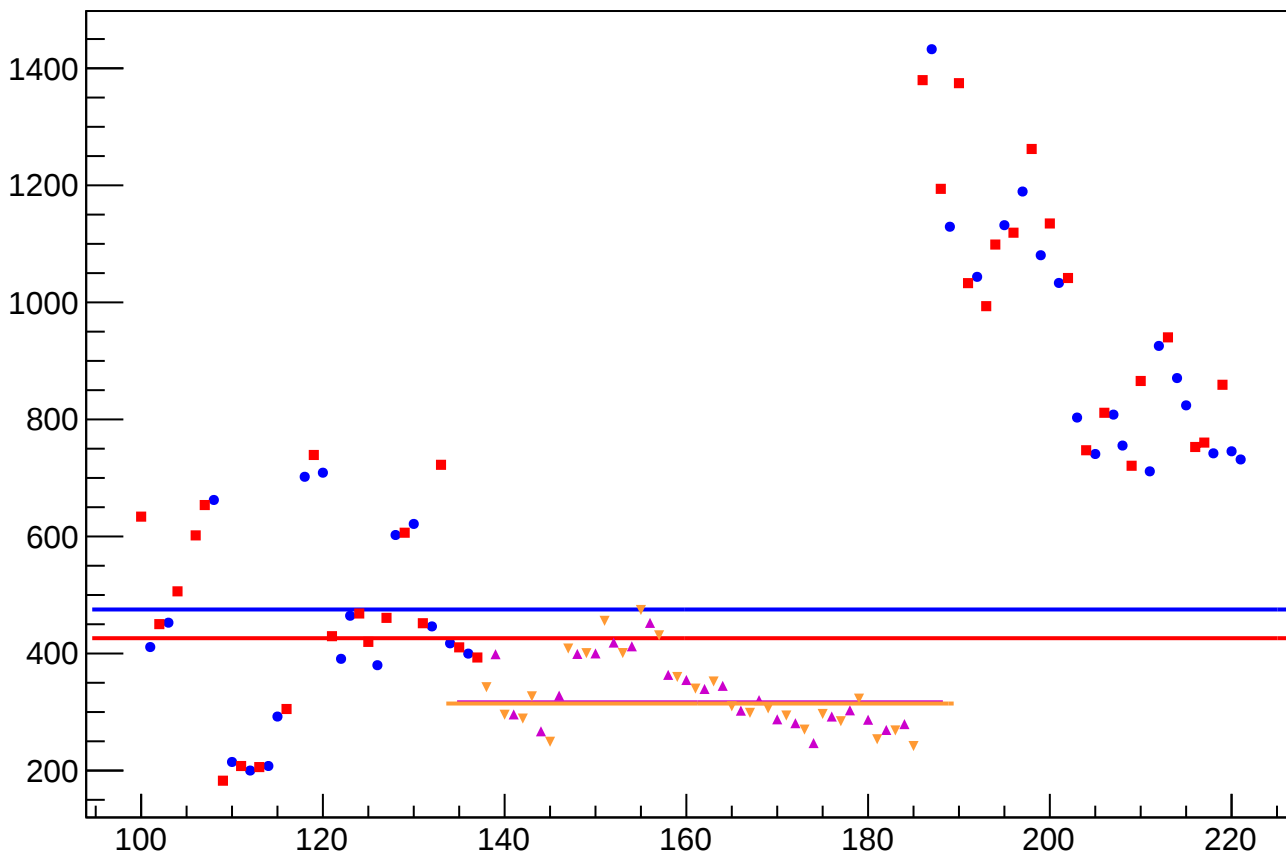
Right: -84.880+/-84.405 χ^2/NDF : 105.5/71

In: 149.774+/-65.130 χ^2/NDF : 82.6/57

Out: 153.555+/-62.788 χ^2/NDF : 123.8/61

All: 151.734+/-45.203 χ^2/NDF : 206.4/119

asym_sam7_rms vs Slug, Sign Corrected



Right In: 475.231+/-0.087 χ^2/NDF : 9518749.1/34

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 426.178+/-0.082 χ^2/NDF : 12030222.4/36

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

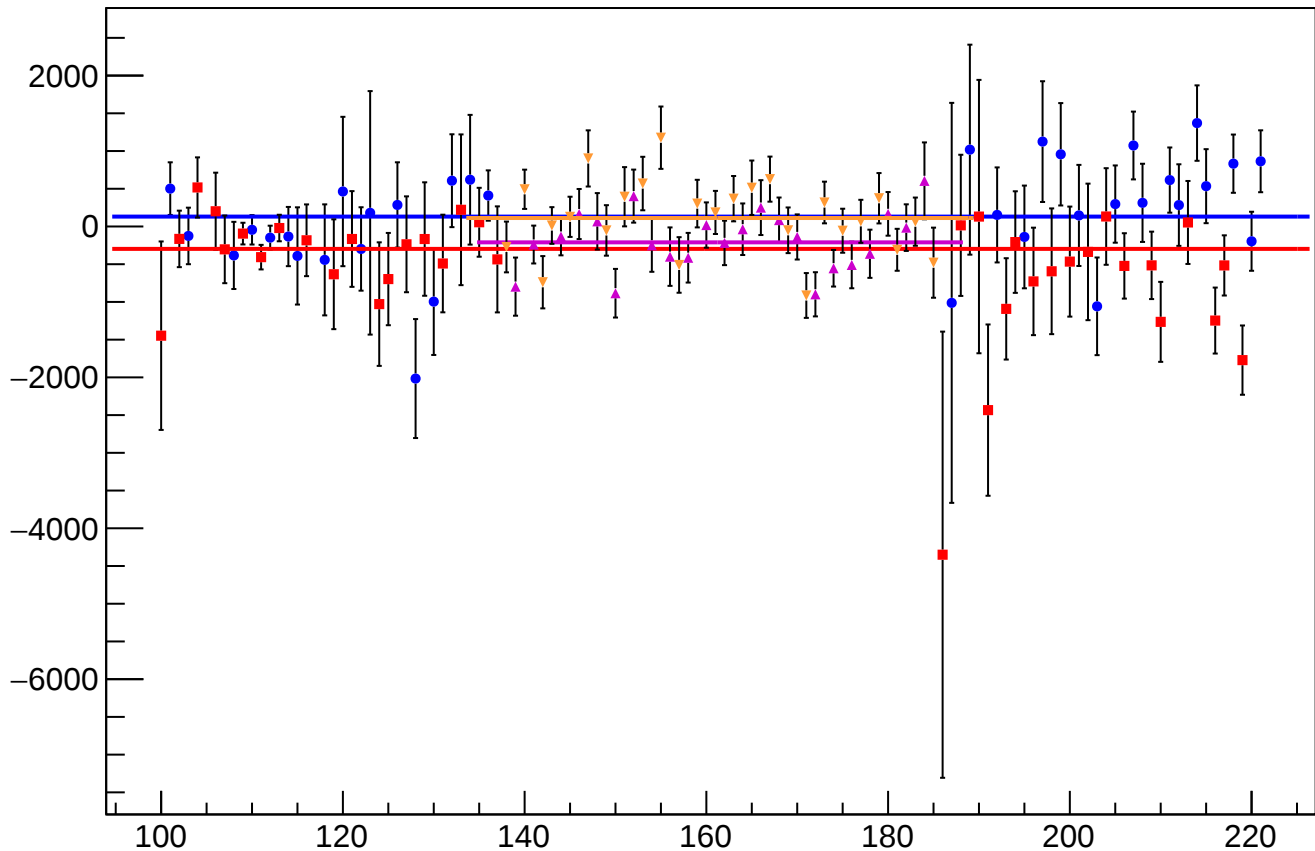
Right: 449.472+/-0.060 χ^2/NDF : 21717418.2/71

In: 361.487+/-0.046 χ^2/NDF : 12844302.9/57

Out: 346.979+/-0.044 χ^2/NDF : 14446104.1/61

All: 353.967+/-0.032 χ^2/NDF : 27341839.1/11

asym_sam8_mean vs Slug, Sign Corrected



Right In: 131.069 $\pm$ 73.744 χ^2 /NDF: 48.1/34

Left Out: 112.242 $\pm$ 62.643 χ^2 /NDF:49.1/24

Right Out: -296.975 $\pm$ 67.731 χ^2 /NDF: 41.2/36

Left In: -210.453 $\pm$ 65.510 χ^2 /NDF:29.2/22

Left: -41.890 $\pm$ 45.275 χ^2 /NDF: 91.0/47

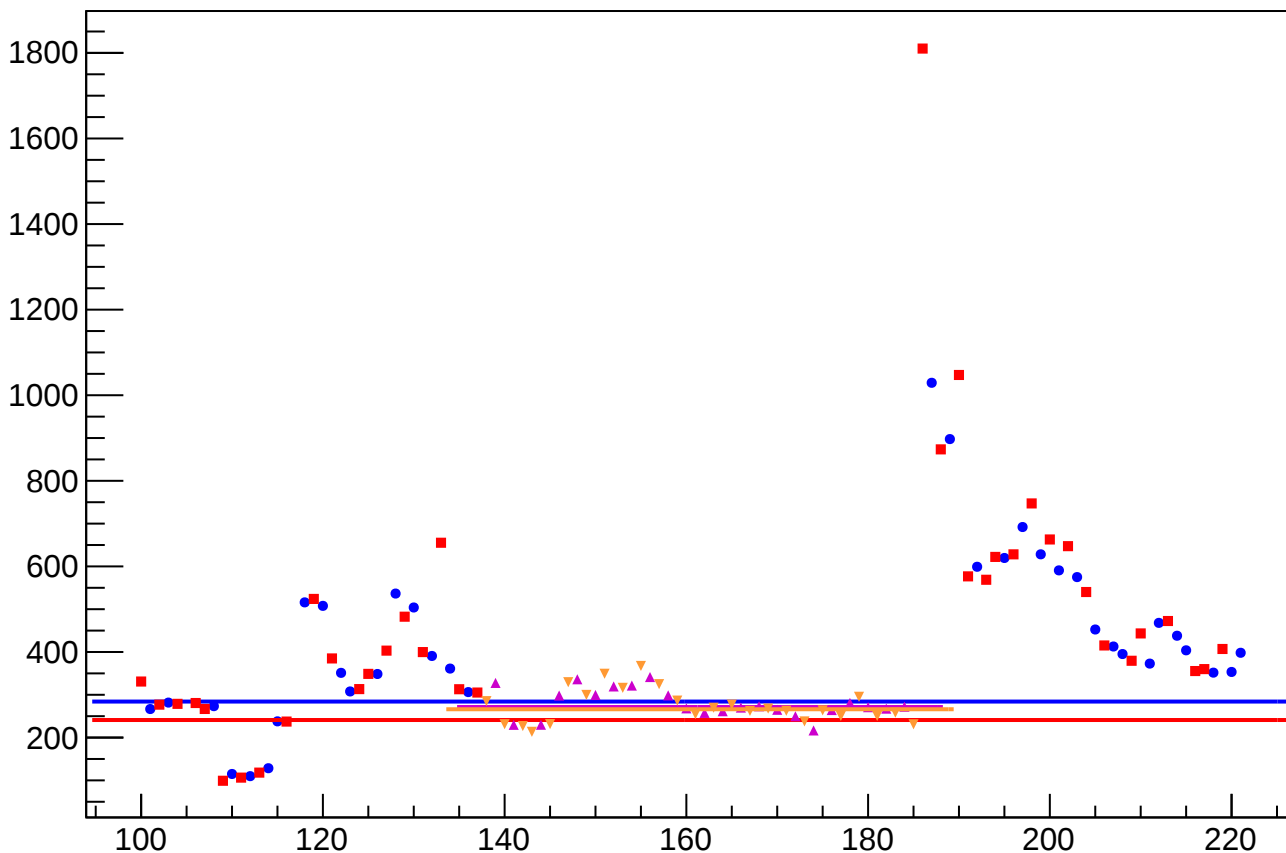
Right: -101.114 $\pm$ 49.883 χ^2 /NDF: 107.5/71

In: -59.815 $\pm$ 48.976 χ^2 /NDF:89.2/57

Out: -76.422 $\pm$ 45.989 χ^2 /NDF:110.0/61

All: -68.640 $\pm$ 33.525 χ^2 /NDF: 199.3/119

asym_sam8_rms vs Slug, Sign Corrected



Right In: 284.166 $\pm$ 0.052 χ^2/NDF : 9857182.0/34

Left Out: 266.207 $\pm$ 0.044 χ^2/NDF : 649629.9/24

Right Out: 241.033 $\pm$ 0.048 χ^2/NDF : 13455257.8/36

Left In: 271.415 $\pm$ 0.046 χ^2/NDF : 521877.7/22

Left: 268.695 $\pm$ 0.032 χ^2/NDF : 1178109.8/47

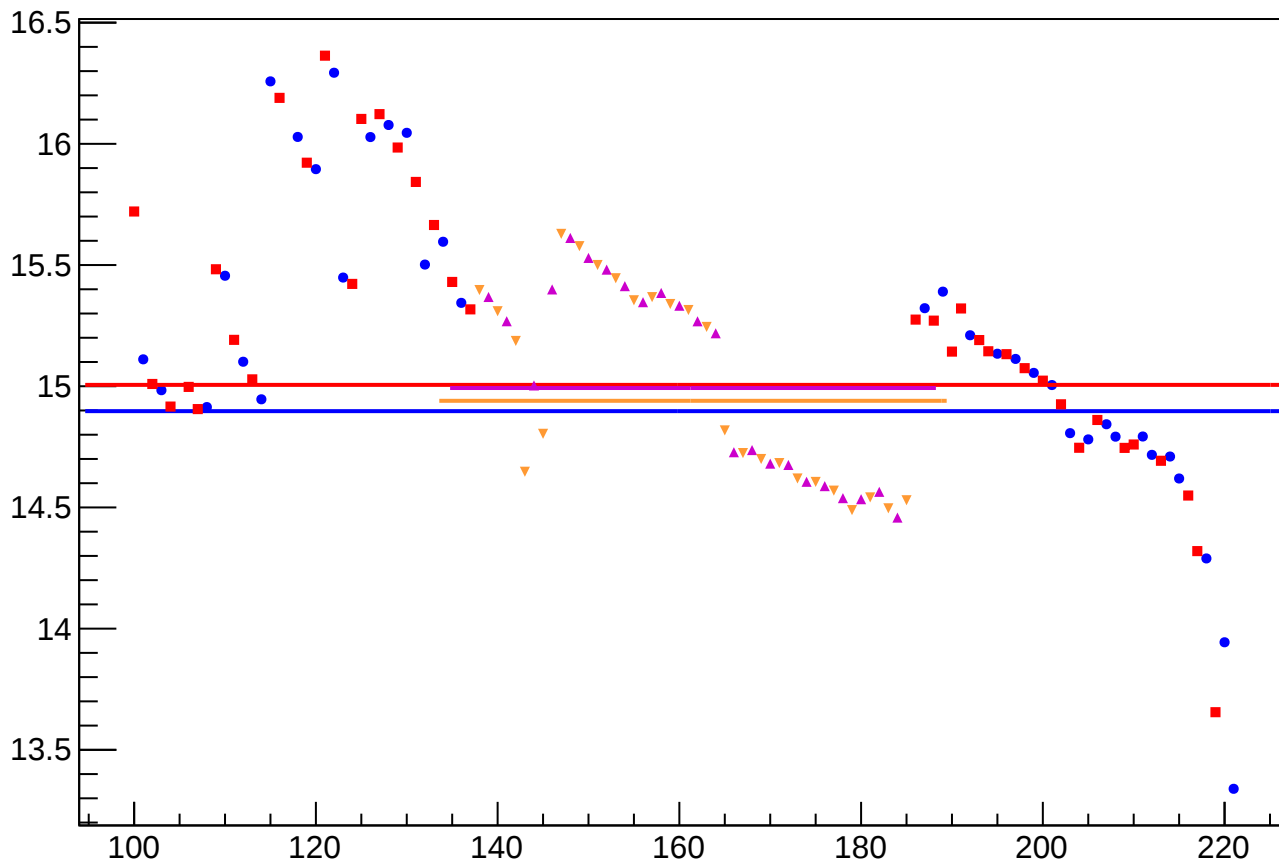
Right: 260.769 $\pm$ 0.035 χ^2/NDF : 23683575.3/71

In: 277.039 $\pm$ 0.035 χ^2/NDF : 10412478.6/57

Out: 254.601 $\pm$ 0.033 χ^2/NDF : 14253800.2/61

All: 265.115 $\pm$ 0.024 χ^2/NDF : 24889366.3/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 14.897+/-0.000

χ^2/NDF : 55799989038.6/34

Left Out: 14.940+/-0.000

χ^2/NDF : 24199653913.9/24

Right Out: 15.006+/-0.000

χ^2/NDF : 39961745110.6/36

Left In: 14.993+/-0.000

χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000

χ^2/NDF : 46444749587.5/47

Right: 14.946+/-0.000

χ^2/NDF : 96409228149.7/71

In: 14.950+/-0.000

χ^2/NDF : 78439158920.9/57

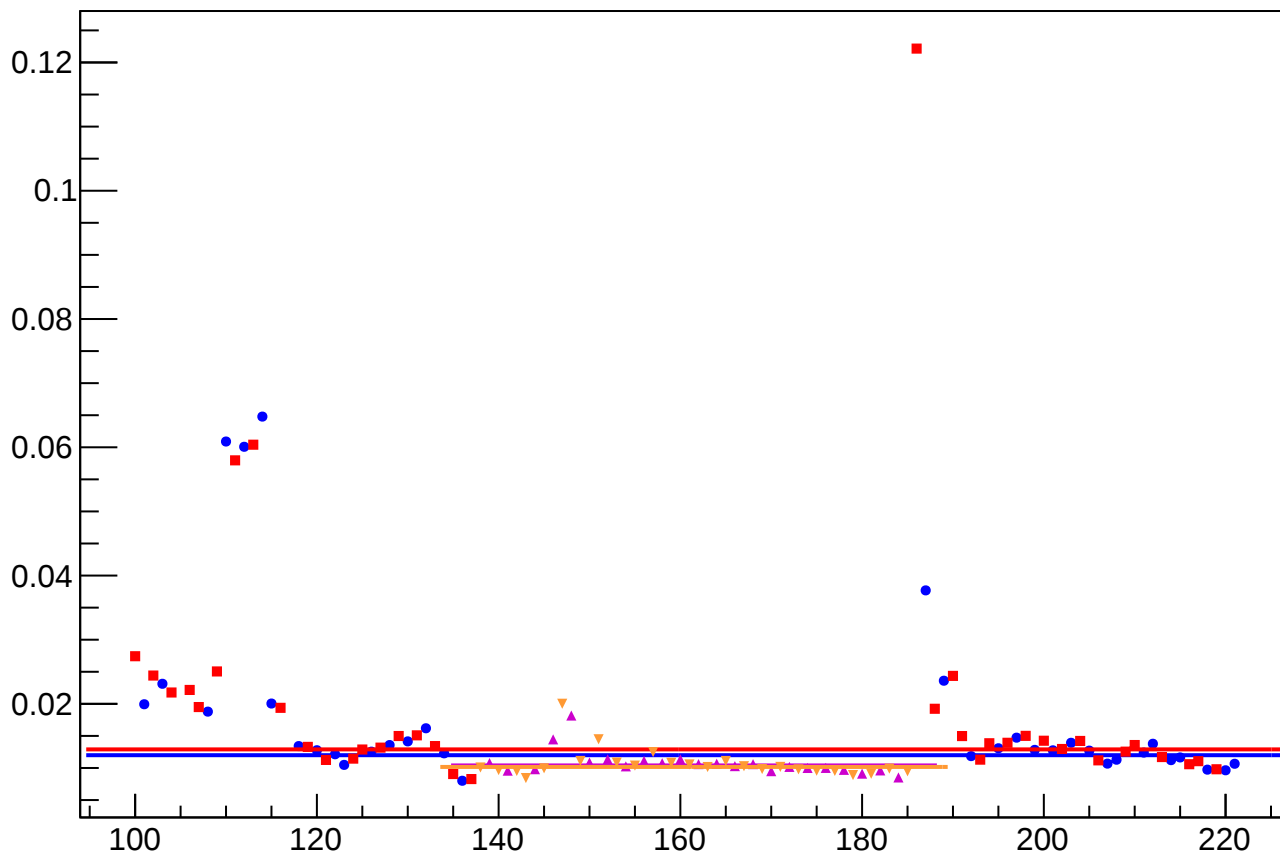
Out: 14.965+/-0.000

χ^2/NDF : 64432878614.7/61

All: 14.957+/-0.000

χ^2/NDF : 142899936149.7/149

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2865237.6/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3451611.0/36

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 544268.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1270343.0/47

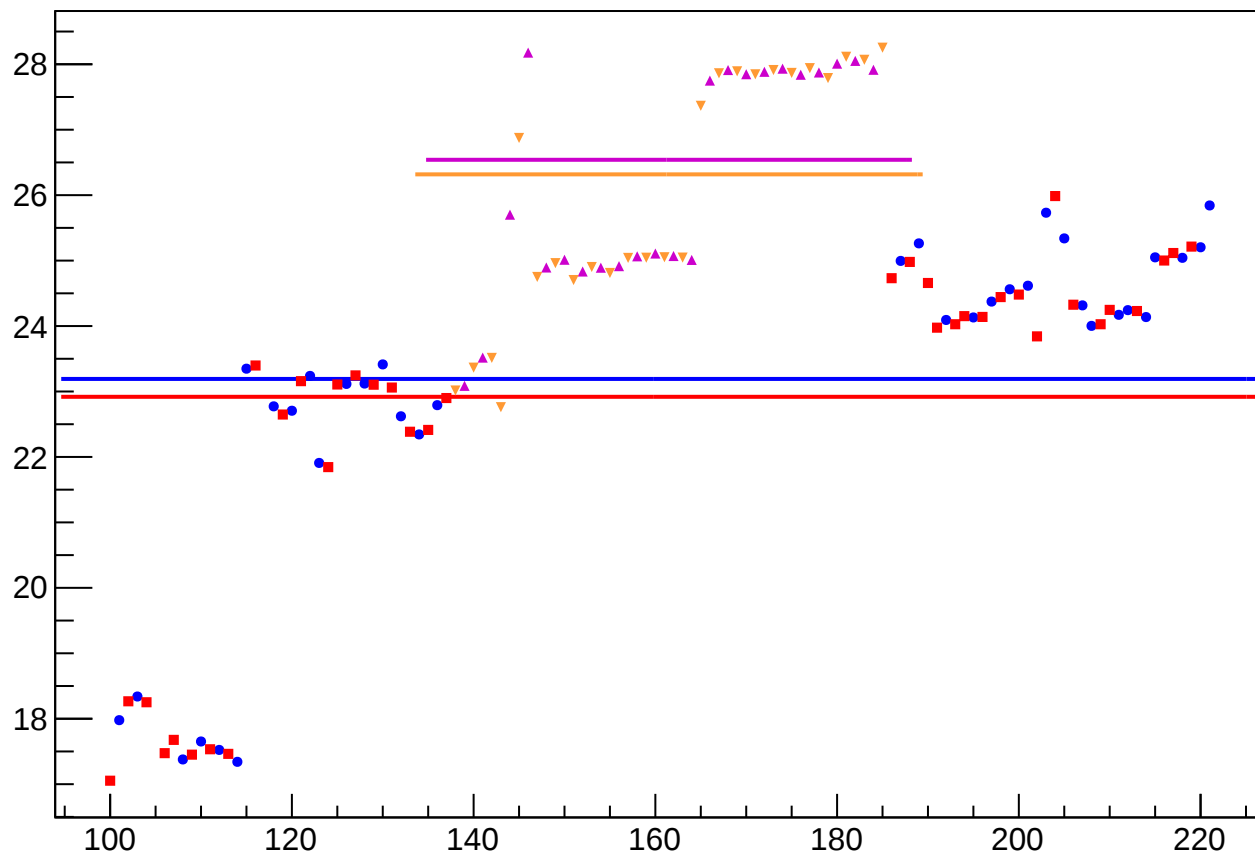
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 6407195.5/71

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3754042.7/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 5110012.0/61

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8866018.0/119

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.192+/-0.000

χ^2/NDF : 1706810818.8/34

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 23.065+/-0.000

χ^2/NDF : 3524089723.6/71

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

In: 25.629+/-0.000

χ^2/NDF : 8970736272.9/57

Right Out: 22.919+/-0.000

χ^2/NDF : 1800470020.3/36

Out: 25.535+/-0.000

χ^2/NDF : 10266657608.6/61

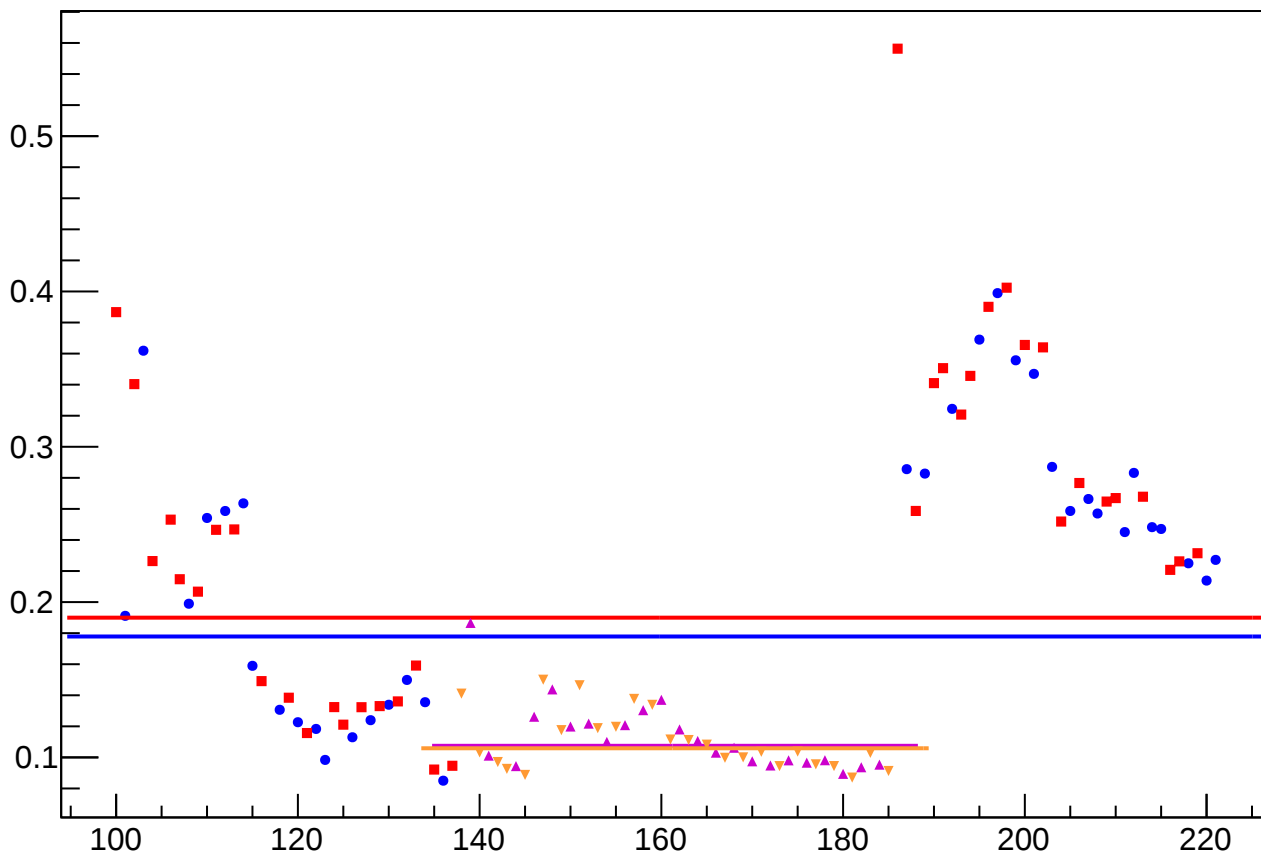
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.581+/-0.000

χ^2/NDF : 19245285482.0

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.178 $\pm$ 0.000 χ^2 /NDF: 6646713.0/34

Left Out: 0.106 $\pm$ 0.000 χ^2 /NDF: 732883.8/24

Right Out: 0.190 $\pm$ 0.000 χ^2 /NDF: 6167642.1/36

Left In: 0.107 $\pm$ 0.000 χ^2 /NDF: 771132.0/22

Left: 0.107 $\pm$ 0.000 χ^2 /NDF: 1507414.2/47

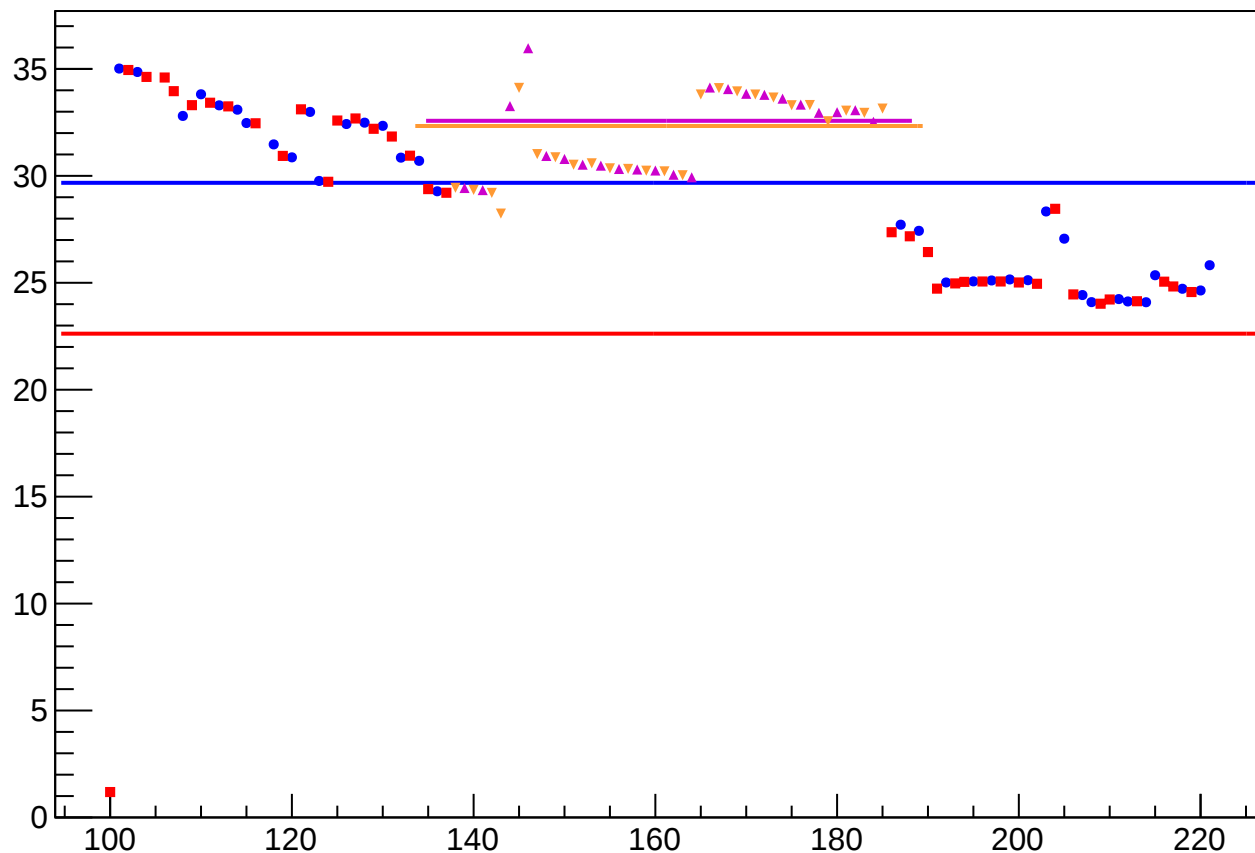
Right: 0.183 $\pm$ 0.000 χ^2 /NDF: 12880672.0/71

In: 0.127 $\pm$ 0.000 χ^2 /NDF: 10912238.9/57

Out: 0.125 $\pm$ 0.000 χ^2 /NDF: 11492952.8/61

All: 0.126 $\pm$ 0.000 χ^2 /NDF: 22408671.8/119

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.675 $\pm$ 0.000 χ^2/NDF : 12752217110.6/34

Left Out: 32.331 $\pm$ 0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.621 $\pm$ 0.000 χ^2/NDF : 232676444189.4/36

Left In: 32.574 $\pm$ 0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450 $\pm$ 0.000 χ^2/NDF : 24766521375.8/47

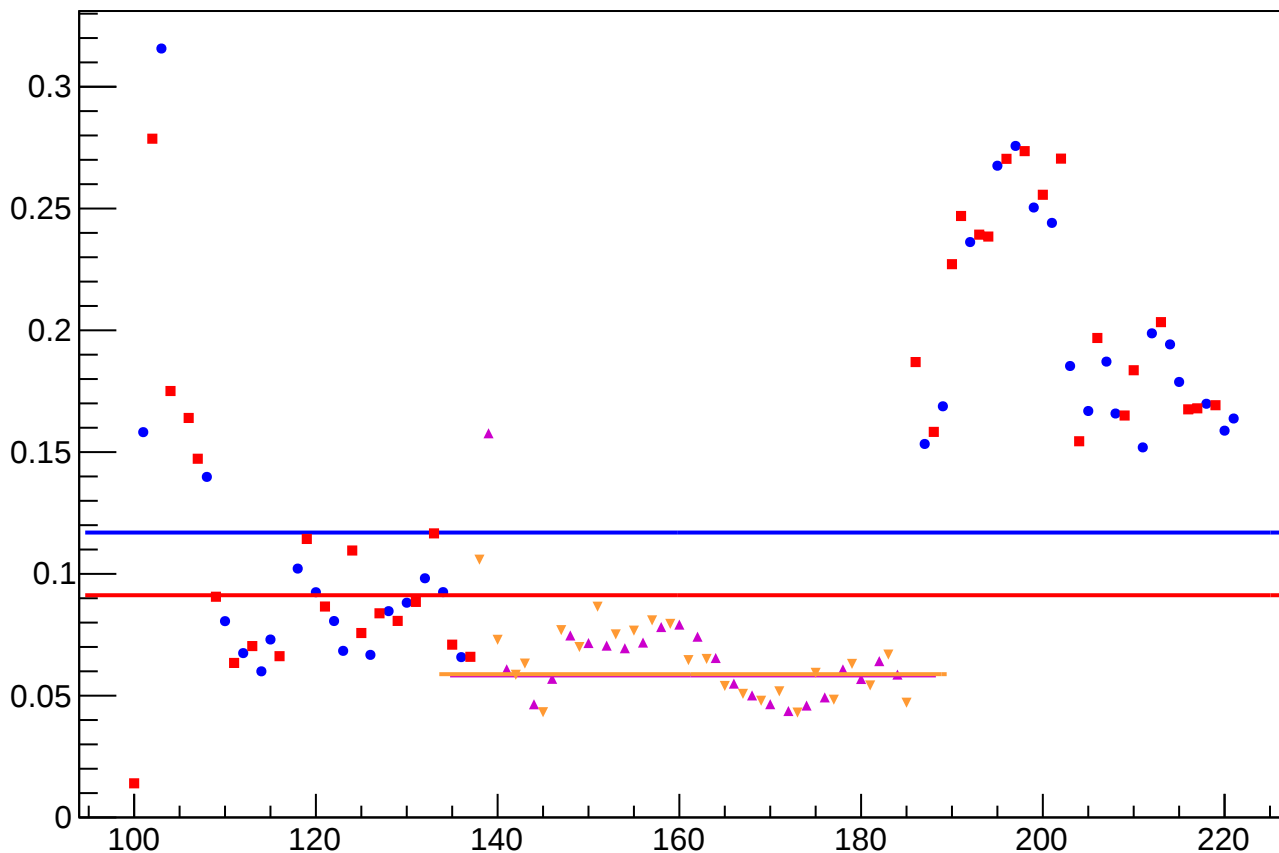
Right: 25.720 $\pm$ 0.000 χ^2/NDF : 275489500501.7/71

In: 31.949 $\pm$ 0.000 χ^2/NDF : 31657445571.1/57

Out: 29.891 $\pm$ 0.000 χ^2/NDF : 342590571405.6/61

All: 30.873 $\pm$ 0.000 χ^2/NDF : 385309873792.0

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.117 $\pm$ 0.000 χ^2 /NDF: 7123261.5/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 12829404.6/36

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

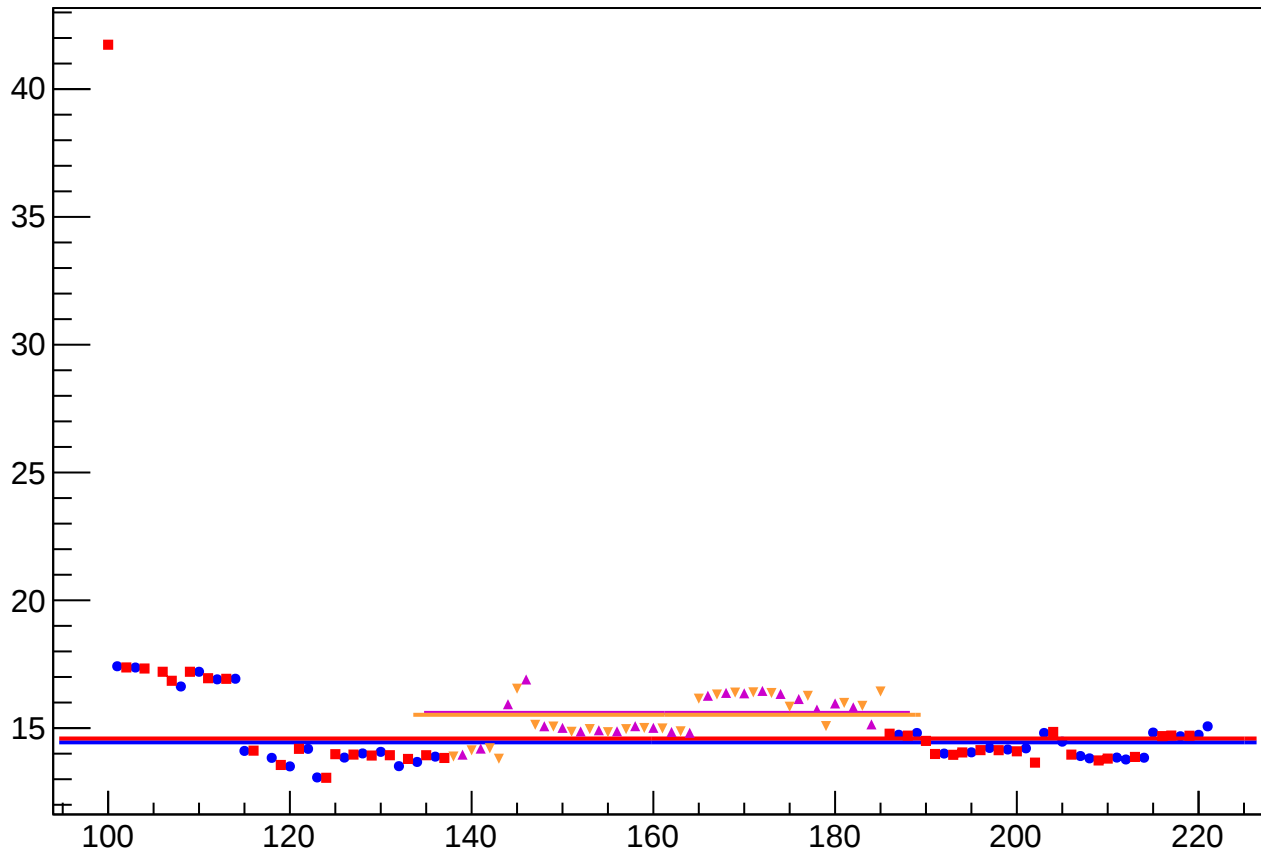
Right: 0.103 $\pm$ 0.000 χ^2 /NDF: 20752835.4/71

In: 0.071 $\pm$ 0.000 χ^2 /NDF:14465808.0/57

Out: 0.067 $\pm$ 0.000 χ^2 /NDF:16394695.9/61

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 30943721.3/119

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.443+/-0.000 χ^2/NDF : 1588670234.7/34

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.593+/-0.000 χ^2/NDF : 2039608223.4/36

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

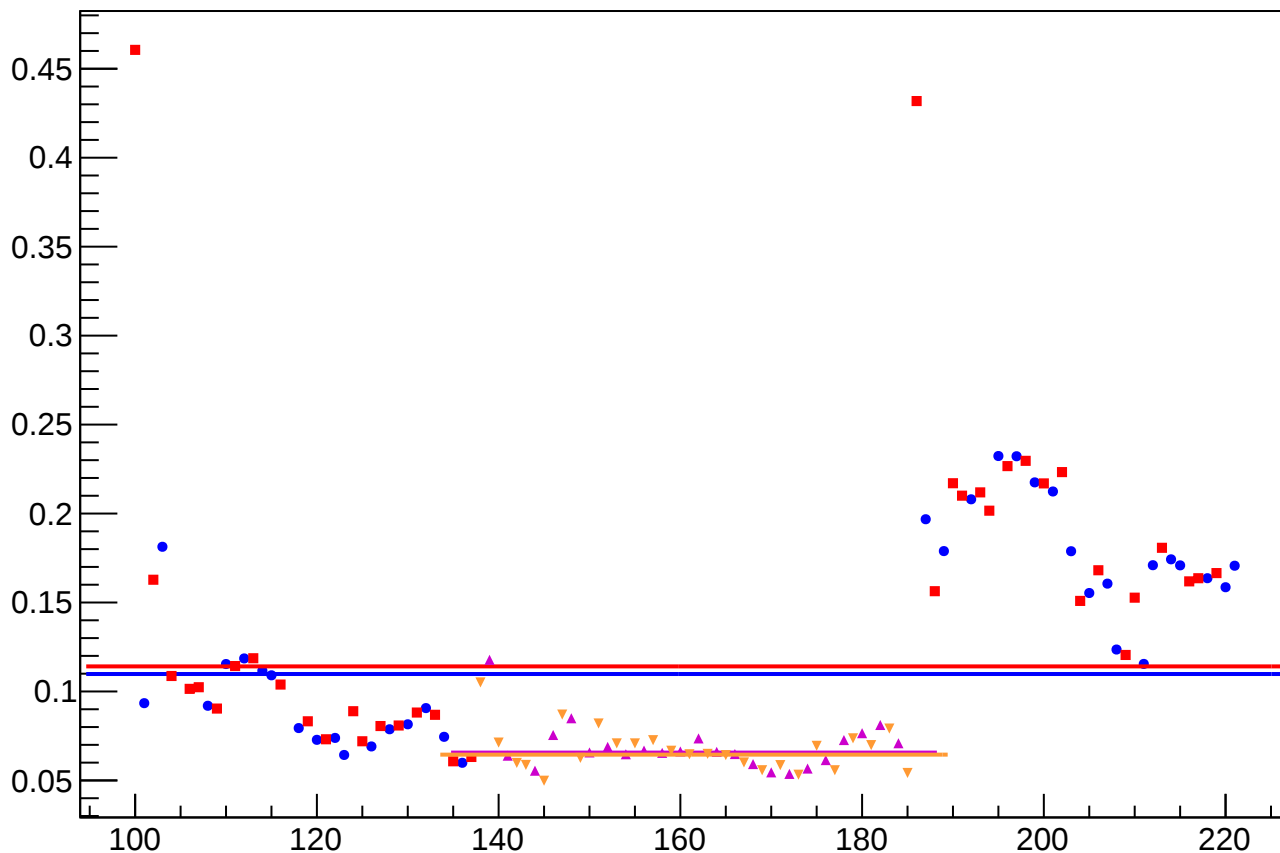
Right: 14.514+/-0.000 χ^2/NDF : 3642419779.0/71

In: 15.278+/-0.000 χ^2/NDF : 4753214655.7/57

Out: 15.298+/-0.000 χ^2/NDF : 5406351073.7/61

All: 15.289+/-0.000 χ^2/NDF : 10160501544.7

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.110 $\pm$ 0.000 χ^2/NDF : 6147364.4/34

Left Out: 0.064 $\pm$ 0.000 χ^2/NDF : 761552.3/24

Right Out: 0.114 $\pm$ 0.000 χ^2/NDF : 5780351.9/36

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

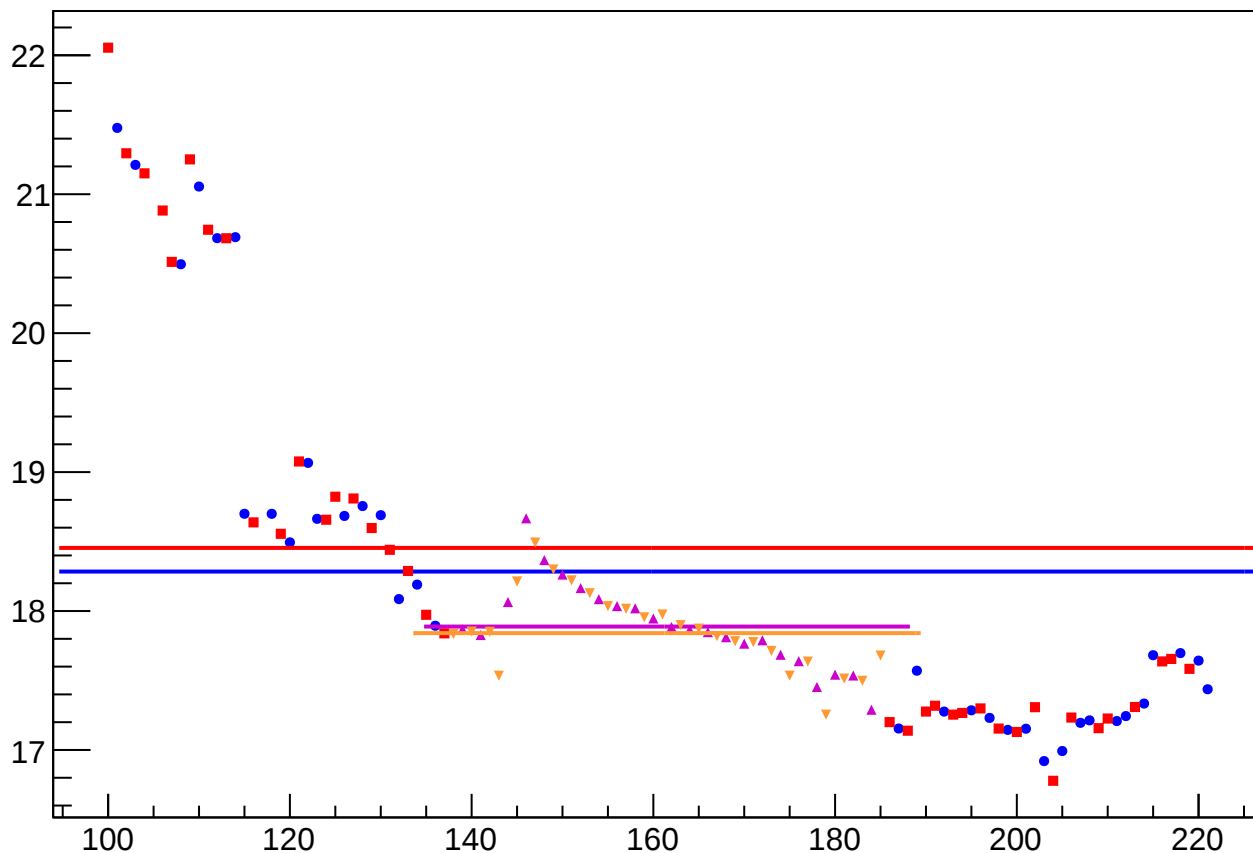
Right: 0.112 $\pm$ 0.000 χ^2/NDF : 11950488.4/71

In: 0.078 $\pm$ 0.000 χ^2/NDF : 10548279.9/57

Out: 0.076 $\pm$ 0.000 χ^2/NDF : 10975092.4/61

All: 0.077 $\pm$ 0.000 χ^2/NDF : 21532481.4/119

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.284+/-0.000 χ^2/NDF : 33177368717.1/34

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.454+/-0.000 χ^2/NDF : 35021506554.5/36

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

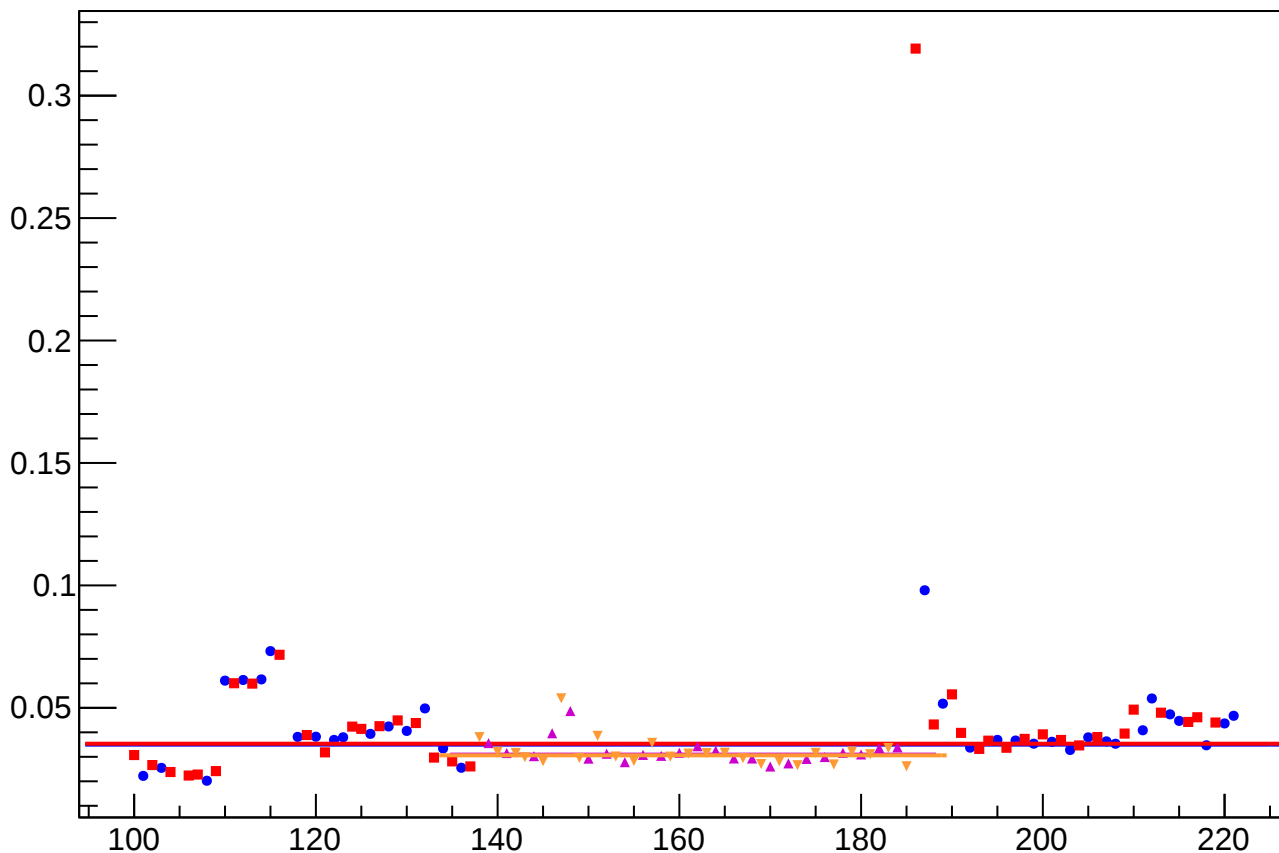
Right: 18.367+/-0.000 χ^2/NDF : 68403249840.3/71

In: 18.068+/-0.000 χ^2/NDF : 35619284965.5/57

Out: 18.101+/-0.000 χ^2/NDF : 39278838797.5/61

All: 18.085+/-0.000 χ^2/NDF : 74915230856.4

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.000 χ^2 /NDF: 2372279.8/34

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2647174.9/36

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

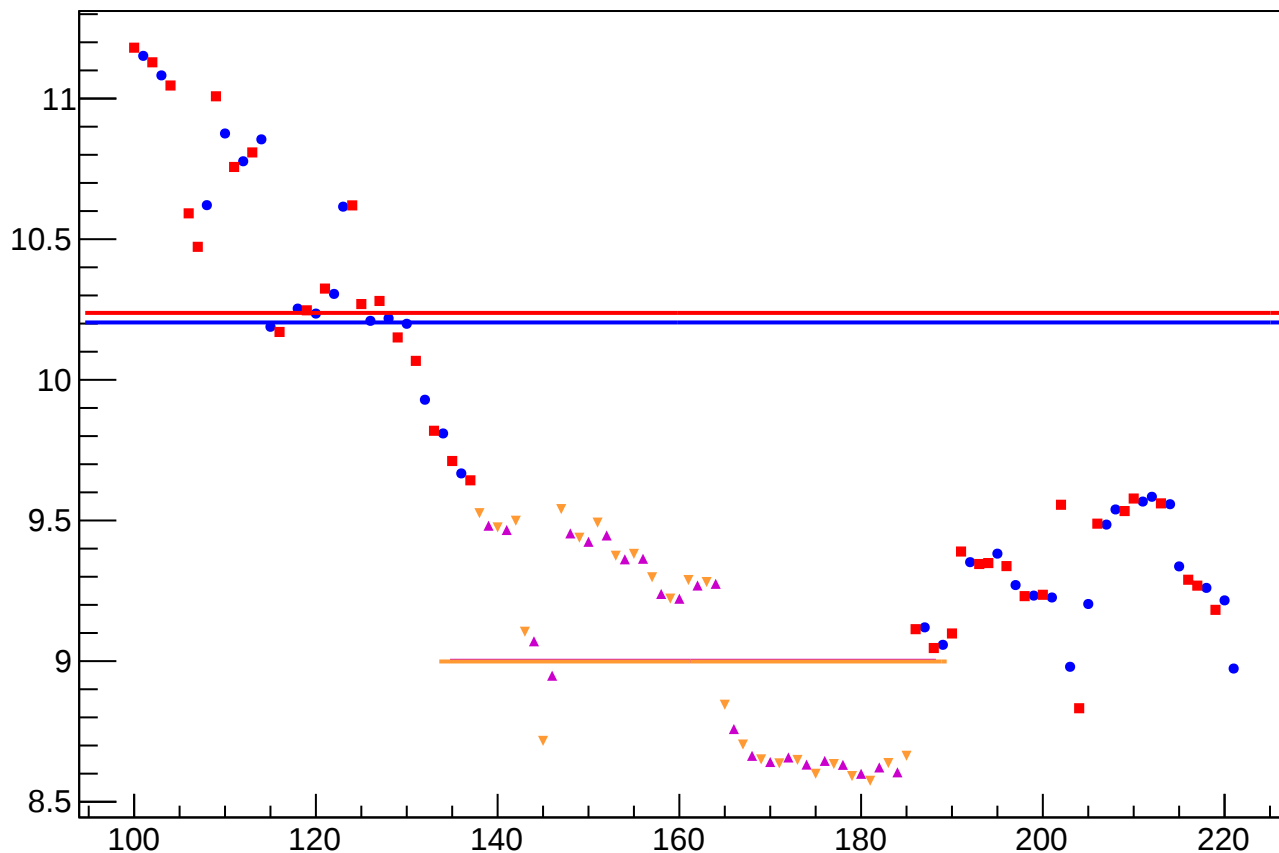
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 5021397.4/71

In: 0.033 $\pm$ 0.000 χ^2 /NDF:3088901.6/57

Out: 0.033 $\pm$ 0.000 χ^2 /NDF:3593519.8/61

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 6683041.2/119

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.204 $\pm$ 0.000 χ^2 /NDF: 20403549793.1/34

Left Out: 8.999 $\pm$ 0.000 χ^2 /NDF: 6392583736.5/24

Right Out: 10.238 $\pm$ 0.000 χ^2 /NDF: 16953645843.2/36

Left In: 9.001 $\pm$ 0.000 χ^2 /NDF: 5314536205.4/22

Left: 9.000 $\pm$ 0.000 χ^2 /NDF: 11707260677.5/47

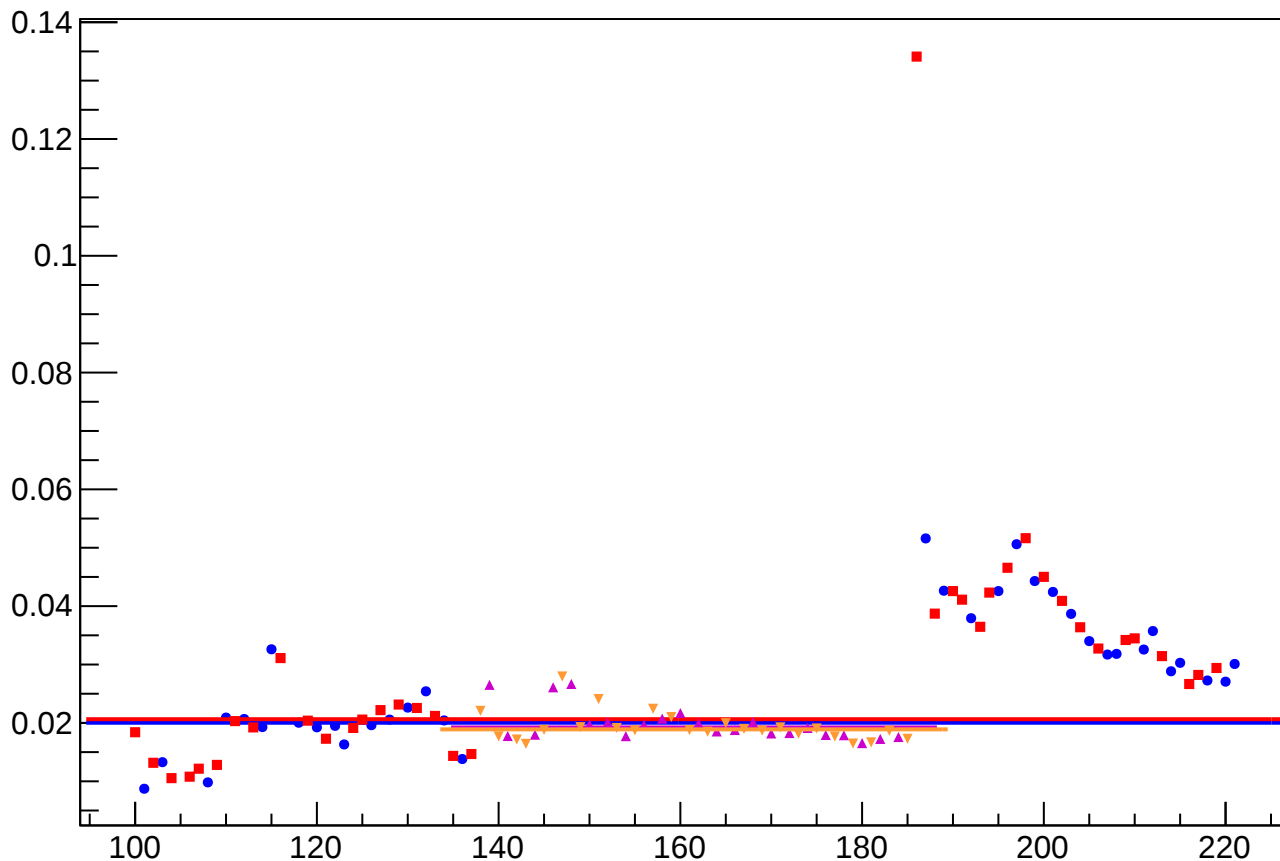
Right: 10.220 $\pm$ 0.000 χ^2 /NDF: 37377785034.1/71

In: 9.559 $\pm$ 0.000 χ^2 /NDF: 54448550890.4/57

Out: 9.523 $\pm$ 0.000 χ^2 /NDF: 53897522140.6/61

All: 9.541 $\pm$ 0.000 χ^2 /NDF: 108397630024.1

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7975854.9/34

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 7544239.5/36

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

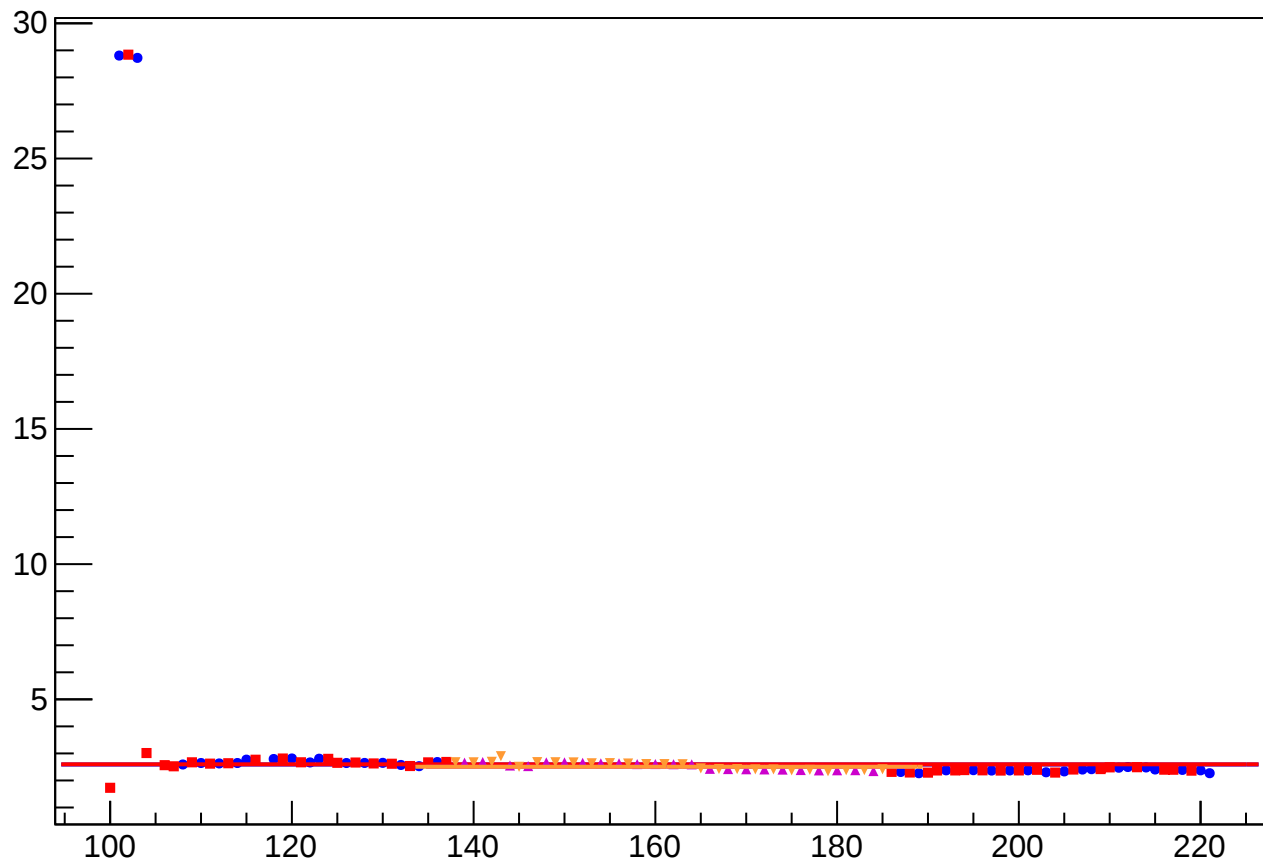
Right: 0.020+/-0.000 χ^2/NDF : 15533110.8/71

In: 0.020+/-0.000 χ^2/NDF :8483577.4/57

Out: 0.020+/-0.000 χ^2/NDF :8092677.9/61

All: 0.020+/-0.000 χ^2/NDF : 16576348.8/119

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.589+/-0.000 χ^2/NDF : 193865197262.2/34

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.598+/-0.000 χ^2/NDF : 96757555515.0/36

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

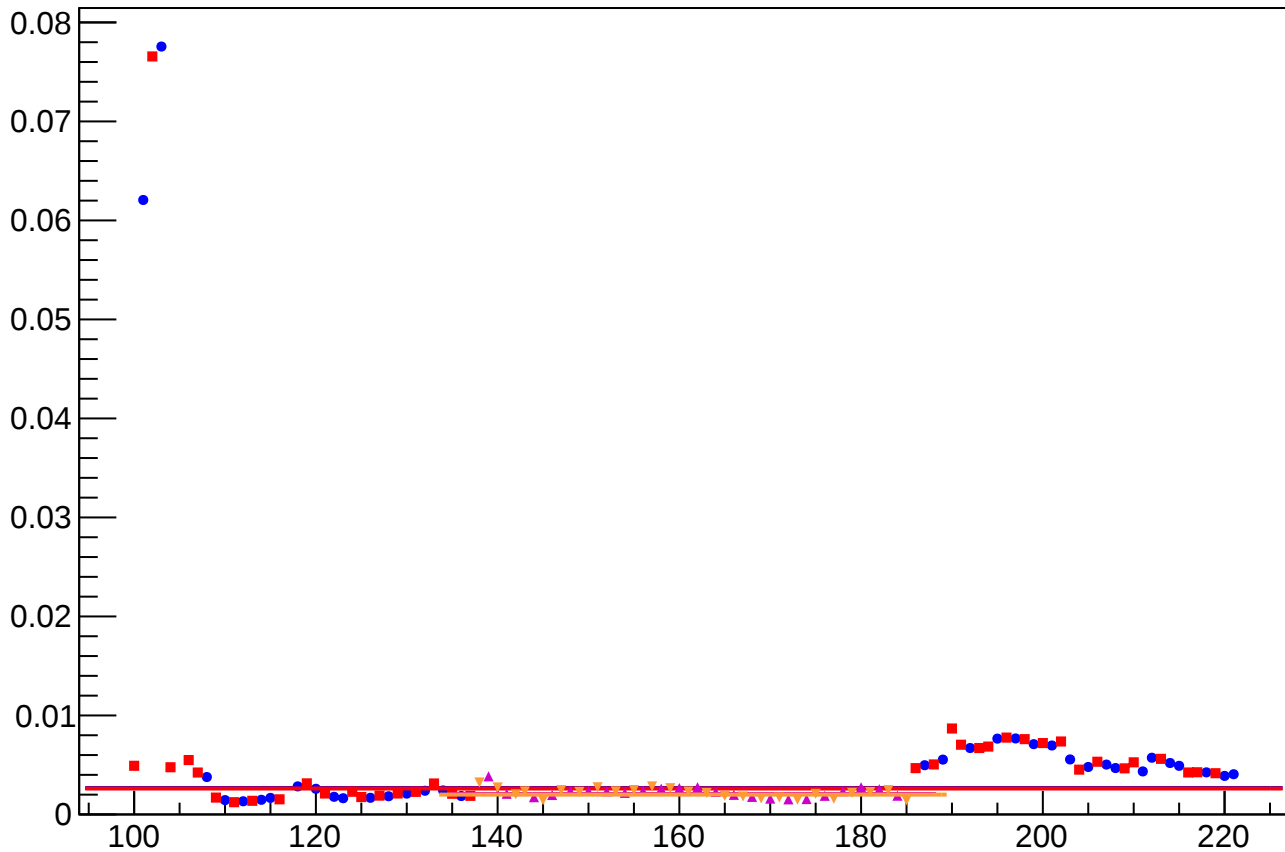
Right: 2.593+/-0.000 χ^2/NDF : 290687828821.0/71

In: 2.535+/-0.000 χ^2/NDF : 245005138958.7/57

Out: 2.537+/-0.000 χ^2/NDF : 171071229853.1/61

All: 2.536+/-0.000 χ^2/NDF : 416084150194.6

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 11197341.7/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10987157.4/36

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

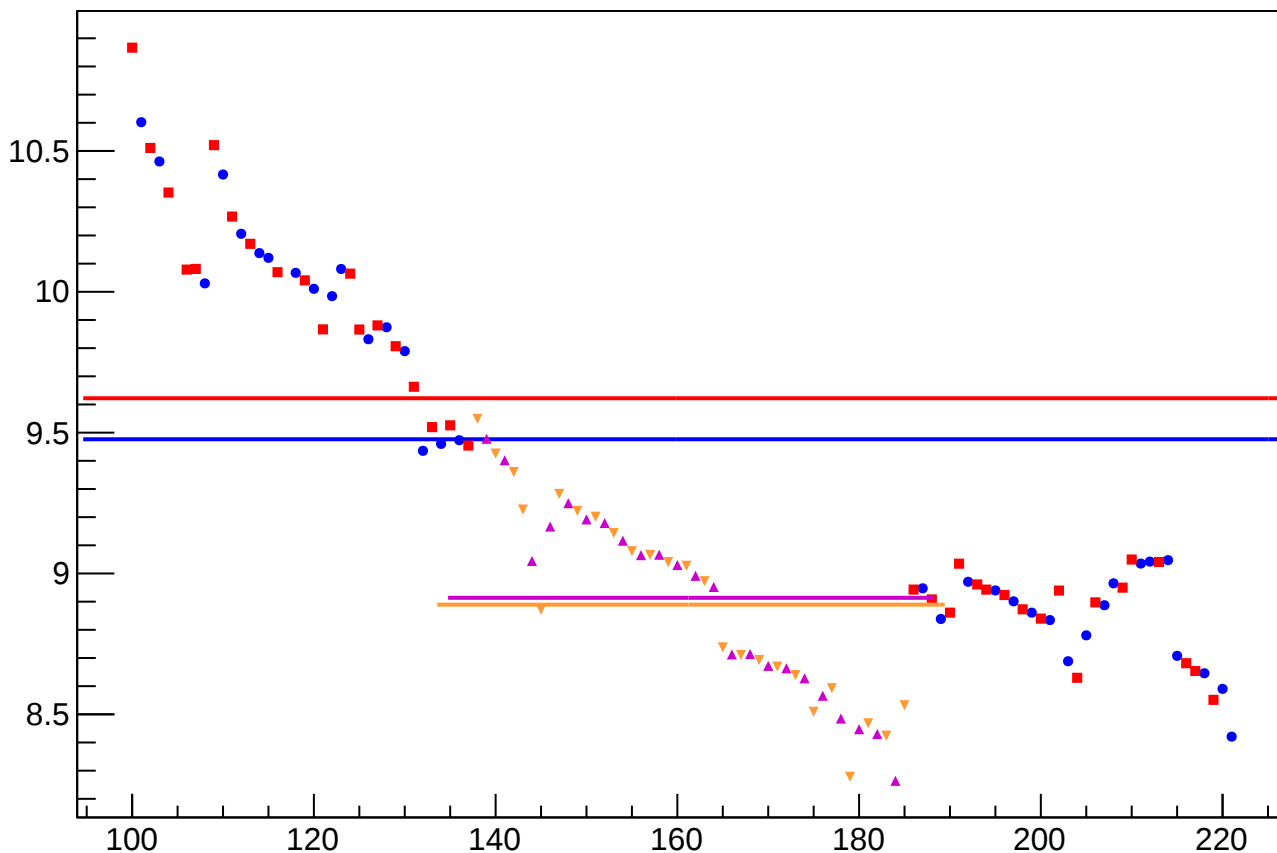
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 22188195.6/71

In: 0.002 $\pm$ 0.000 χ^2 /NDF:13372610.7/57

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:13379192.2/61

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 26773718.1/119

yield_sam8_mean vs Slug, Sign Corrected



Left: 8.901 $\pm$ 0.000 χ^2/NDF : 63312247922.6/47
 Right: 9.547 $\pm$ 0.000 χ^2/NDF : 270876127909.2/71
 In: 9.180 $\pm$ 0.000 χ^2/NDF : 217985516200.7/57
 Out: 9.200 $\pm$ 0.000 χ^2/NDF : 256832457452.8/61
 All: 9.191 $\pm$ 0.000 χ^2/NDF : 474959082262.6

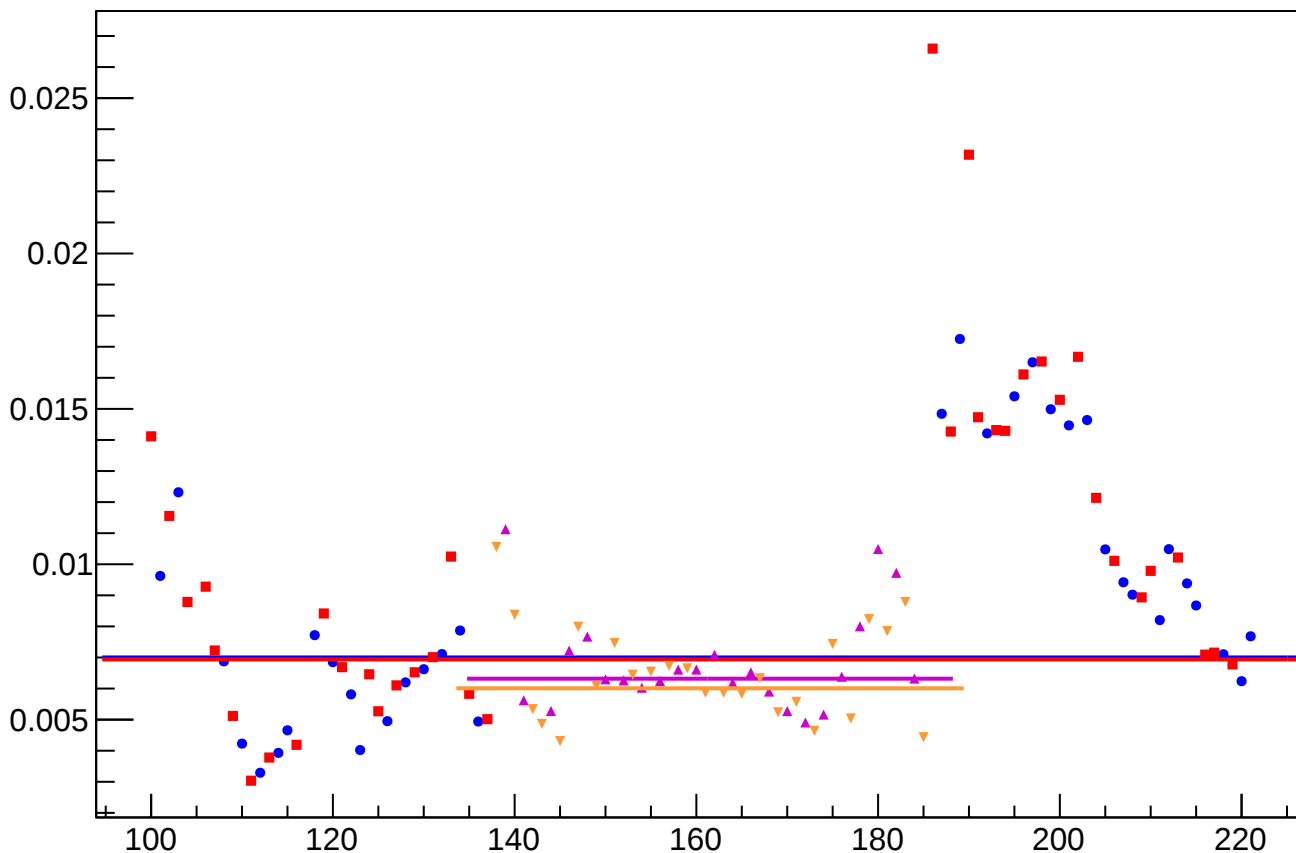
Right In: 9.477 $\pm$ 0.000 χ^2/NDF : 137289941592.5/34

Left Out: 8.889 $\pm$ 0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.622 $\pm$ 0.000 χ^2/NDF : 130355525719.6/36

Left In: 8.914 $\pm$ 0.000 χ^2/NDF : 28497227562.7/22

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 6131712.3/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7553864.3/36

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

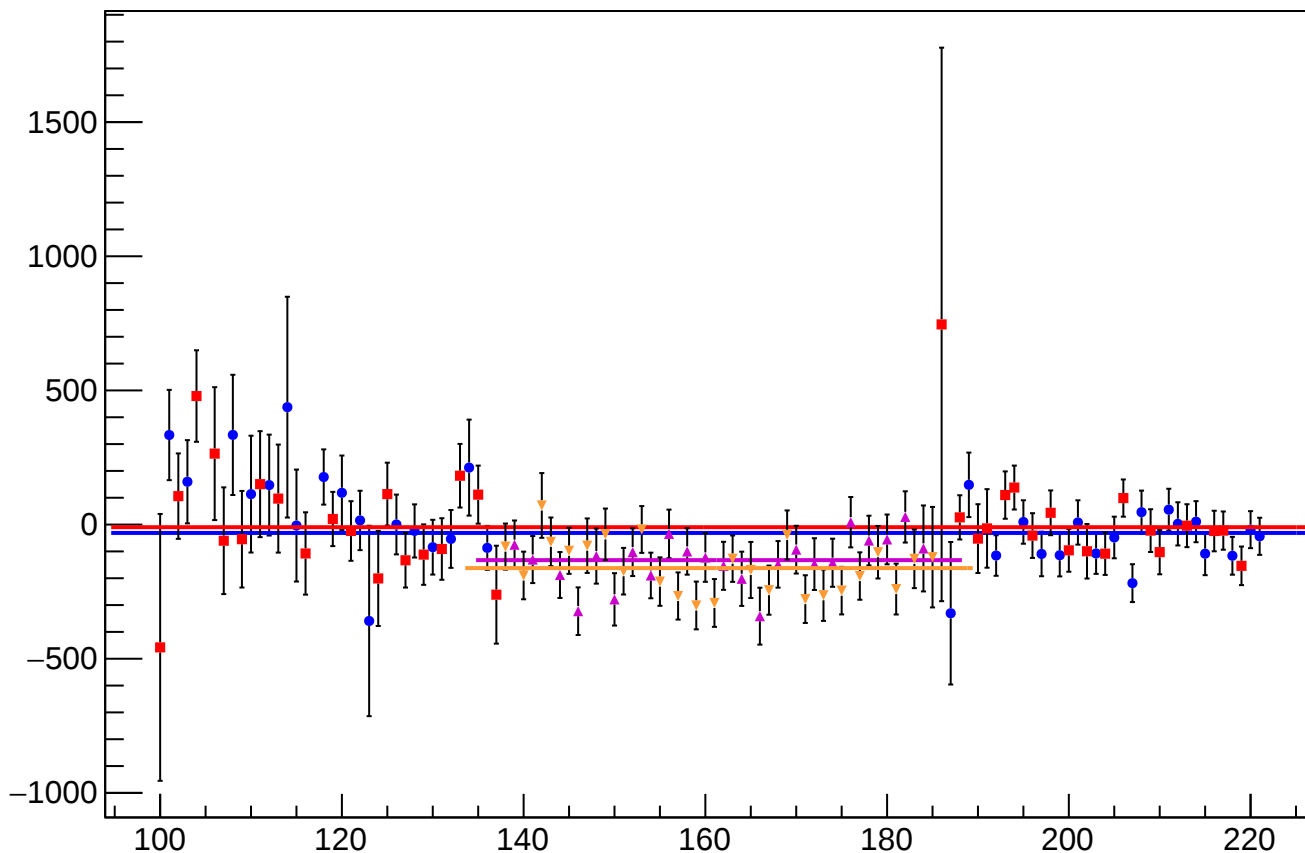
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13686822.1/71

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7372625.0/57

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:9160950.6/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 16572164.9/119

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -31.104 ± 16.263 $\chi^2/\text{NDF}: 41.0/34$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -9.790 ± 17.066 $\chi^2/\text{NDF}: 41.0/36$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

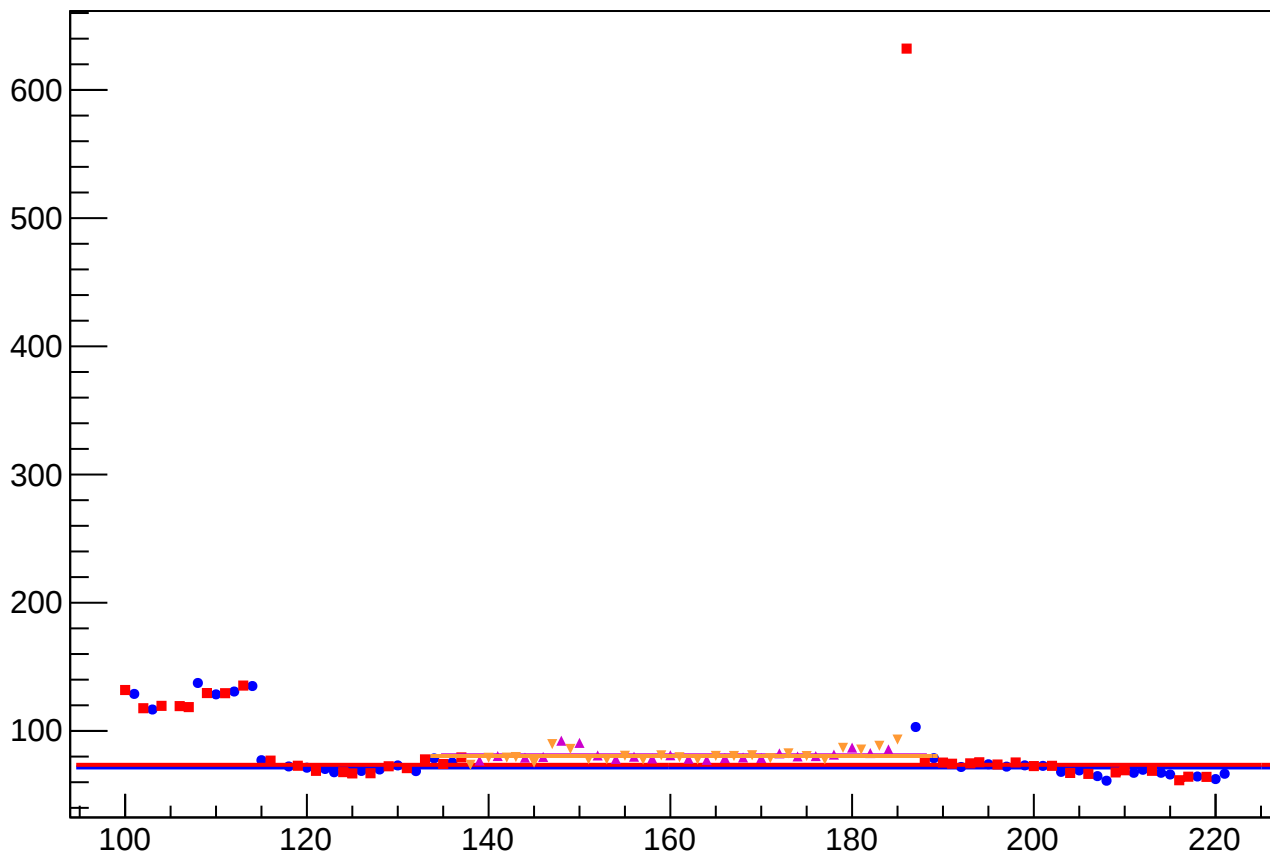
Right: -20.960 ± 11.774 $\chi^2/\text{NDF}: 82.8/71$

In: -72.968 ± 12.464 $\chi^2/\text{NDF}: 77.8/57$

Out: -78.850 ± 12.619 $\chi^2/\text{NDF}: 102.8/61$

All: -75.872 ± 8.868 $\chi^2/\text{NDF}: 180.7/119$

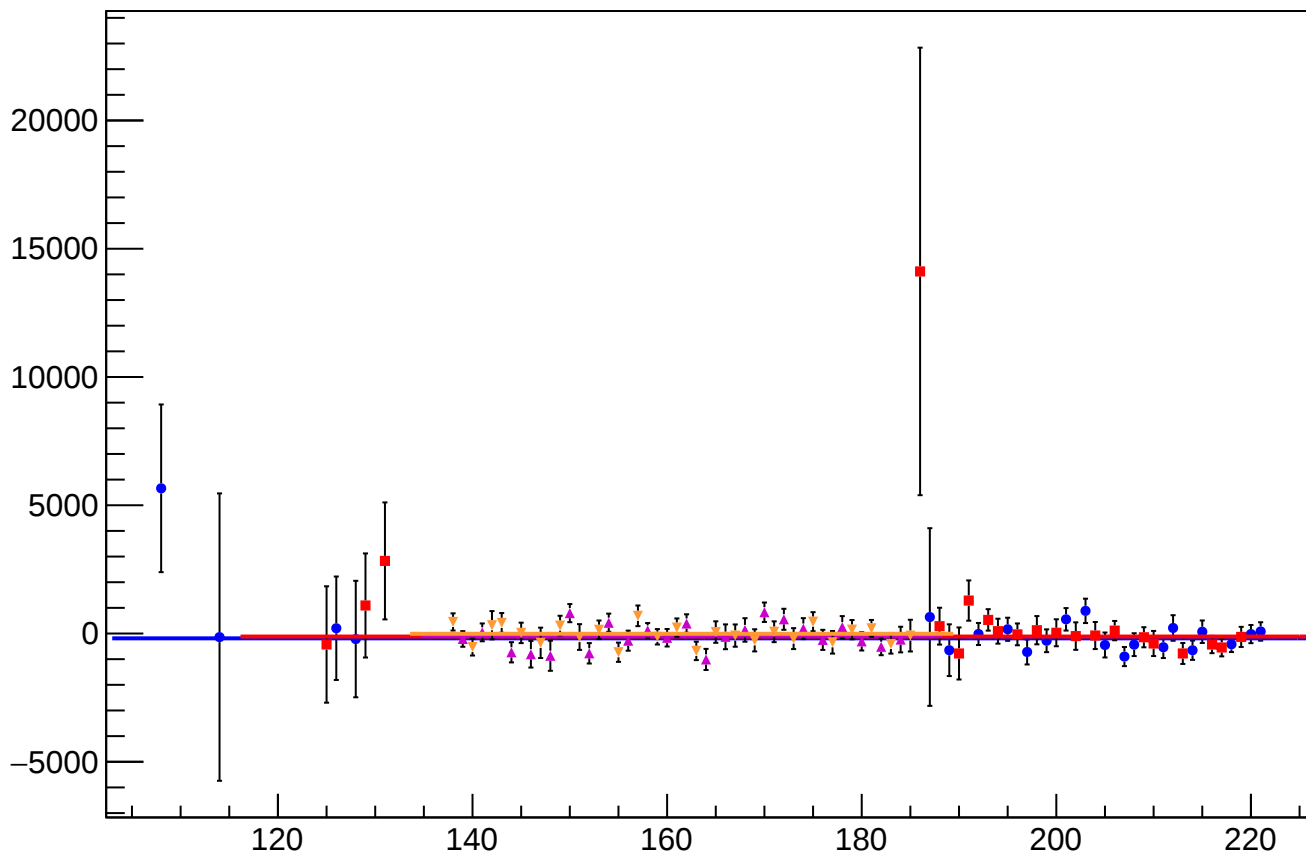
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 71.507+/-0.011 χ^2/NDF : 1154853.5/34
Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24
Right Out: 73.583+/-0.012 χ^2/NDF : 1838014.3/36
Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47
Right: 72.495+/-0.008 χ^2/NDF : 3008379.5/71
In: 75.430+/-0.009 χ^2/NDF : 1509110.6/57
Out: 76.699+/-0.009 χ^2/NDF : 2075085.4/61
All: 76.057+/-0.006 χ^2/NDF : 3594441.1/119

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -187.890 ± 102.170 $\chi^2/\text{NDF}: 22.2/21$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: -117.508 ± 110.435 $\chi^2/\text{NDF}: 17.2/20$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

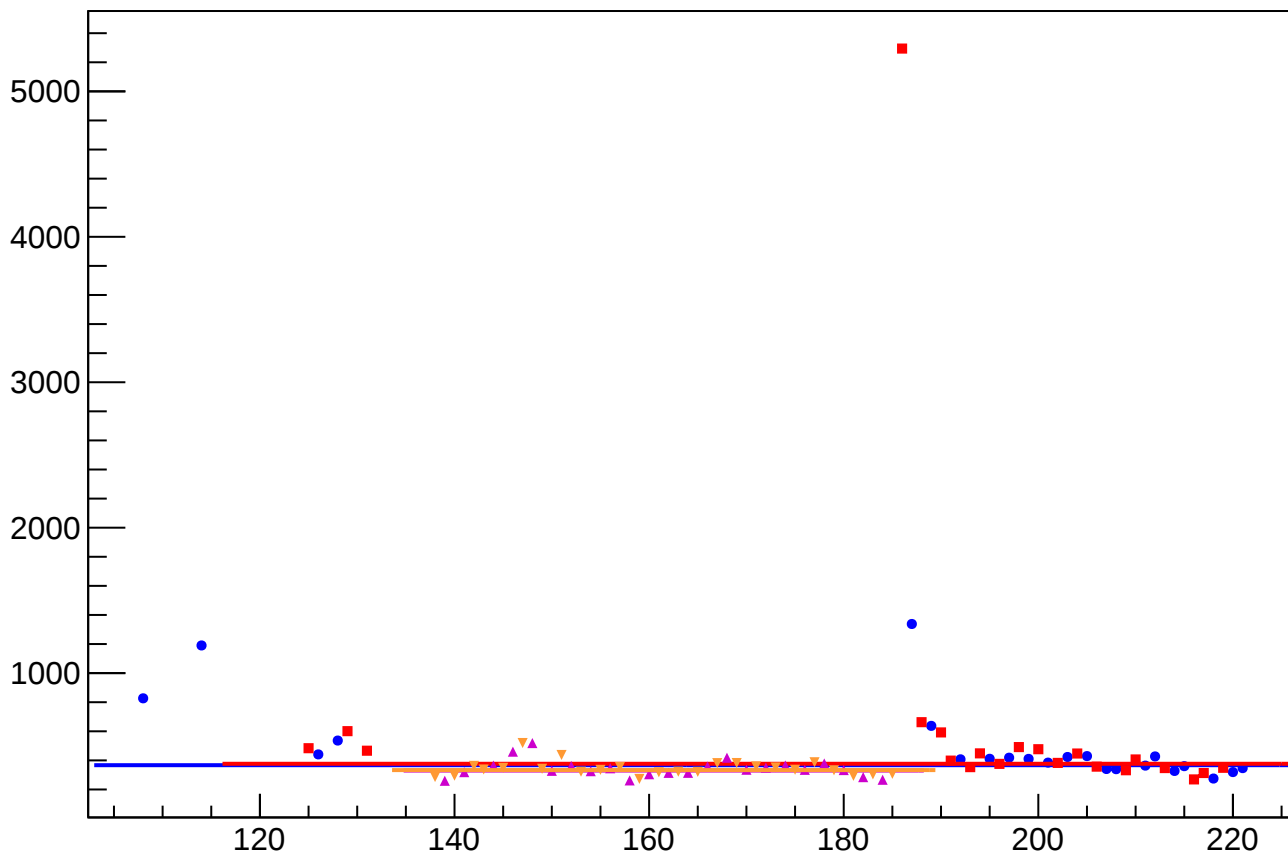
Right: -155.431 ± 74.997 $\chi^2/\text{NDF}: 39.6/42$

In: -111.488 ± 63.011 $\chi^2/\text{NDF}: 60.5/44$

Out: -46.344 ± 63.923 $\chi^2/\text{NDF}: 40.4/45$

All: -79.384 ± 44.875 $\chi^2/\text{NDF}: 101.4/90$

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 367.003+/-0.072 χ^2/NDF : 833898.8/21

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 376.710+/-0.078 χ^2/NDF : 1650929.8/20

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

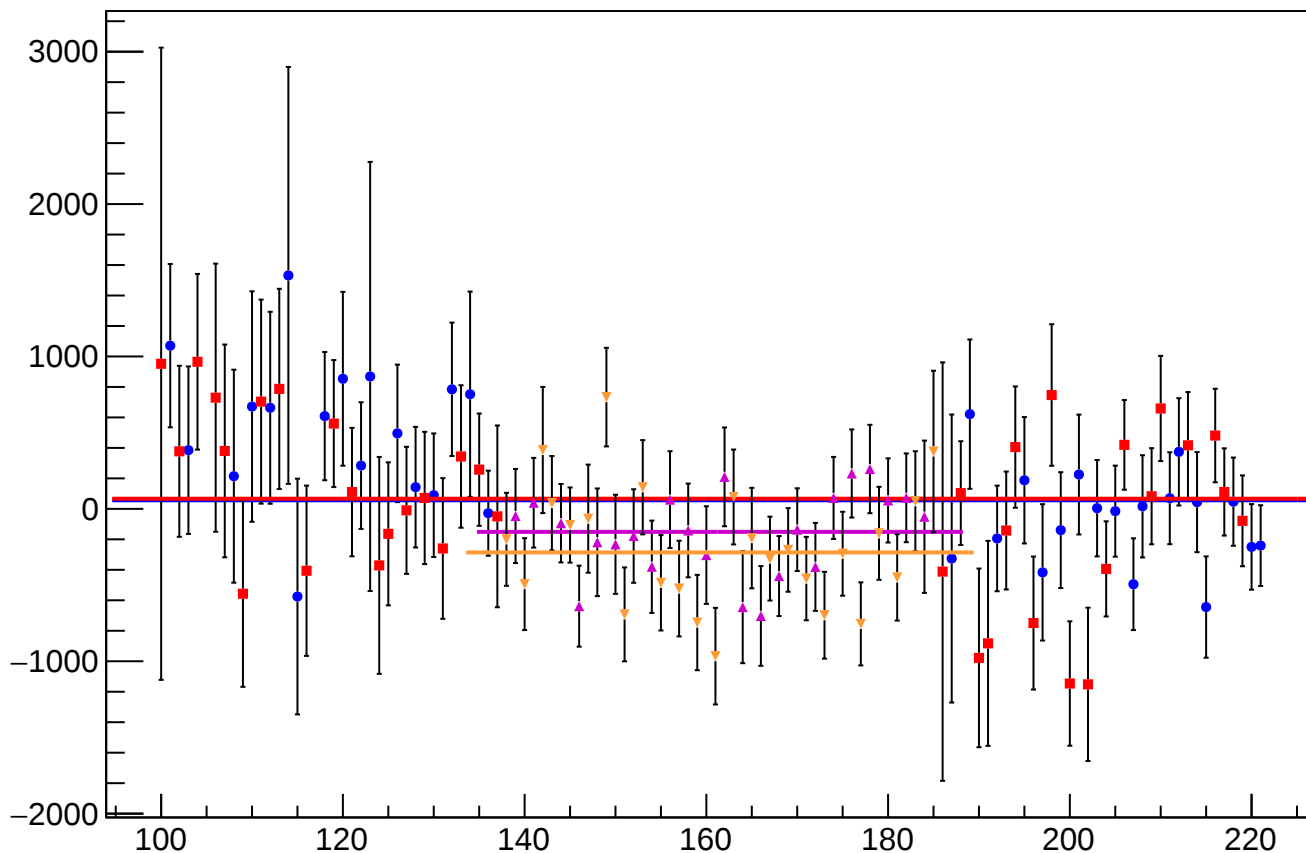
Right: 371.480+/-0.053 χ^2/NDF : 2493153.5/42

In: 344.065+/-0.045 χ^2/NDF : 1792555.2/44

Out: 347.800+/-0.045 χ^2/NDF : 2449172.9/45

All: 345.906+/-0.032 χ^2/NDF : 4245190.9/90

reg_asym_sam2_mean vs Slug, Sign Corrected

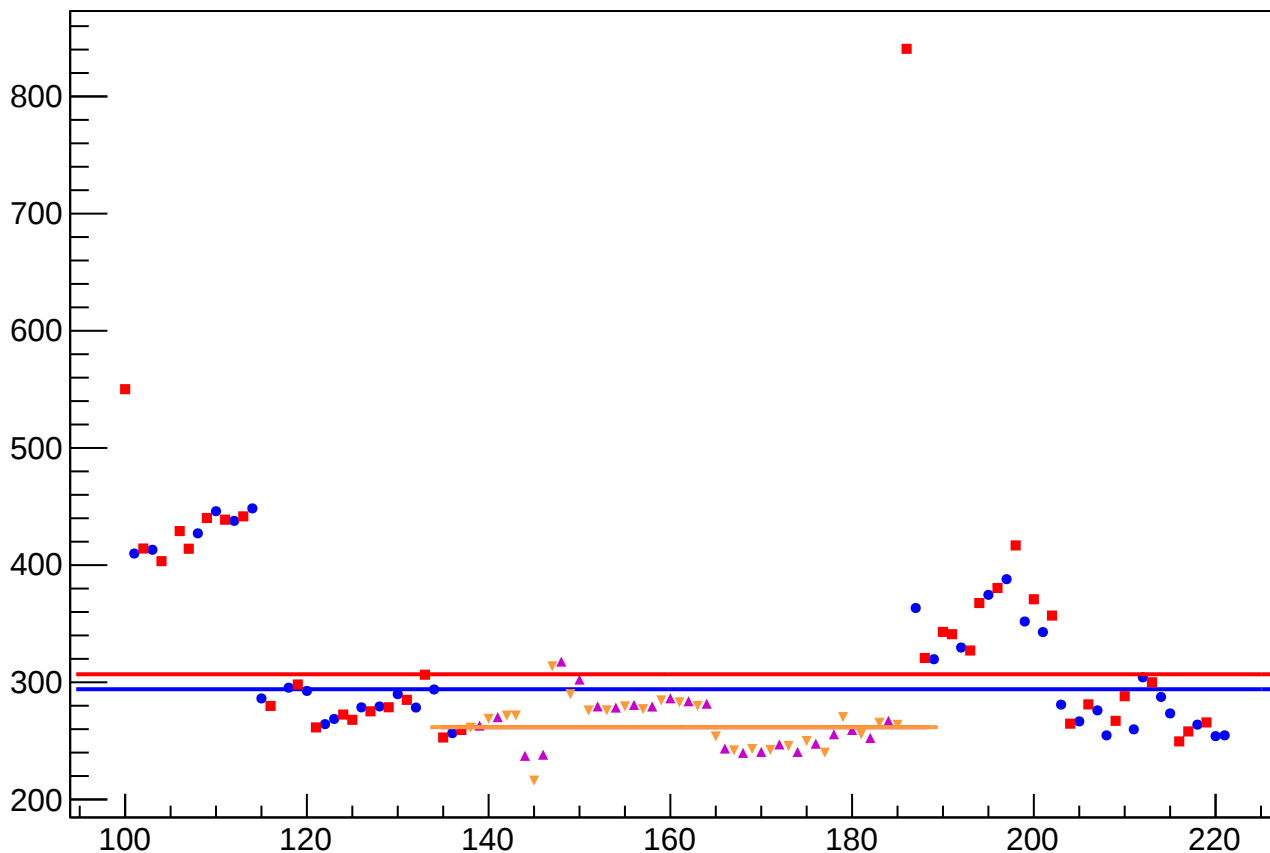


Right In: 56.276 ± 66.936 $\chi^2/\text{NDF}: 31.5/34$
 Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$
 Right Out: 66.573 ± 71.024 $\chi^2/\text{NDF}: 47.1/36$
 Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$
 Right: 61.119 ± 48.712 $\chi^2/\text{NDF}: 78.6/71$
 In: -53.891 ± 45.805 $\chi^2/\text{NDF}: 55.3/57$
 Out: -136.080 ± 46.317 $\chi^2/\text{NDF}: 97.8/61$

All: -94.530 ± 32.569 $\chi^2/\text{NDF}: 154.7/119$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 294.081+/-0.047 χ^2/NDF : 1000933.6/34

Left Out: 261.722+/-0.043 χ^2/NDF :233222.6/24

Right Out: 306.851+/-0.050 χ^2/NDF : 1491637.0/36

Left In: 261.637+/-0.044 χ^2/NDF :228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

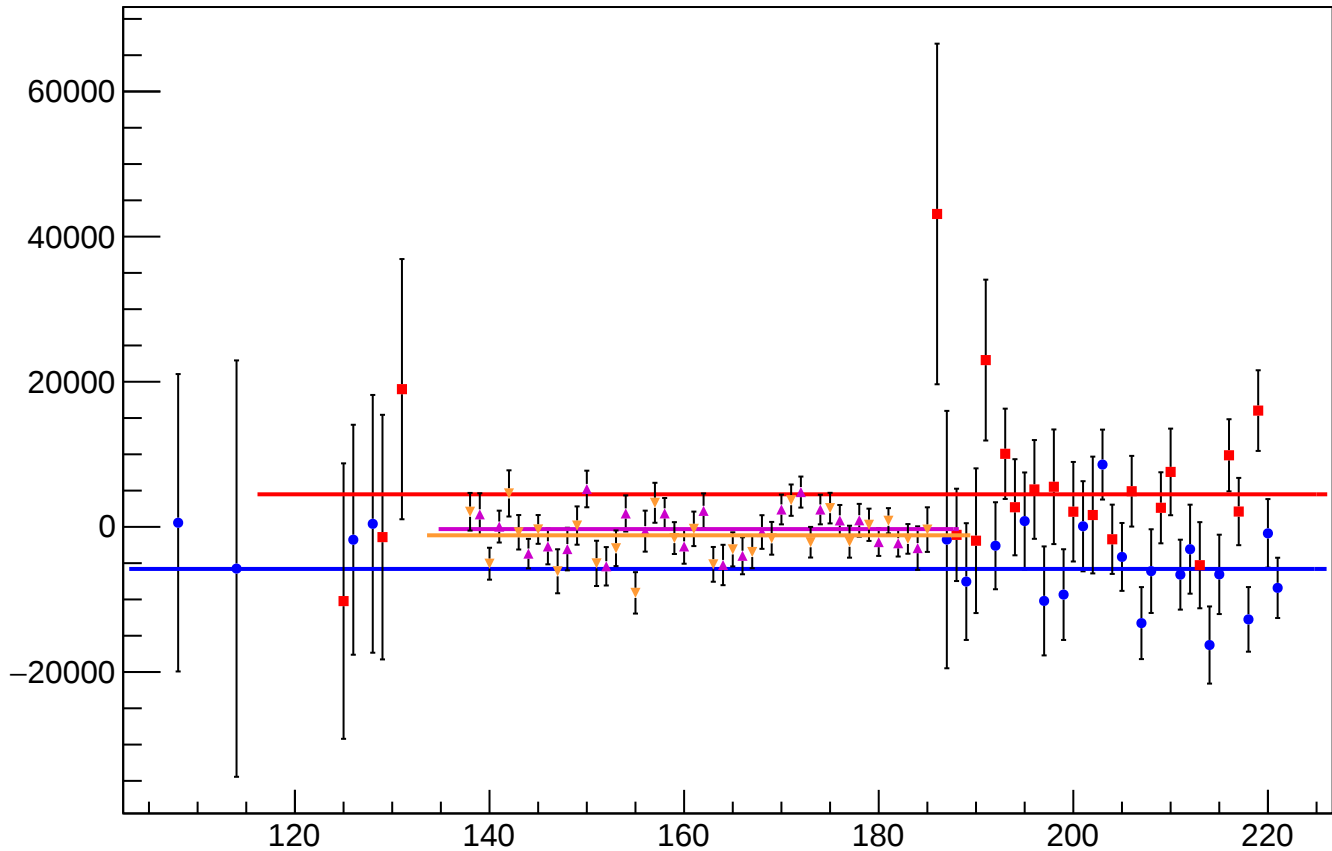
Right: 300.088+/-0.034 χ^2/NDF : 2526810.2/71

In: 276.830+/-0.032 χ^2/NDF :1479017.1/57

Out: 280.913+/-0.033 χ^2/NDF :2188941.8/61

All: 278.849+/-0.023 χ^2/NDF : 3675817.2/119

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5795.488 $\pm$ 1291.032 χ^2/NDF : 22.5/21

Left Out: -1161.443 $\pm$ 469.036 χ^2/NDF : 38.8/24

Right Out: 4488.275 $\pm$ 1442.281 χ^2/NDF : 19.8/20

Left In: -304.366 $\pm$ 483.778 χ^2/NDF : 35.4/22

Left: -746.162 $\pm$ 336.750 χ^2/NDF : 75.7/47

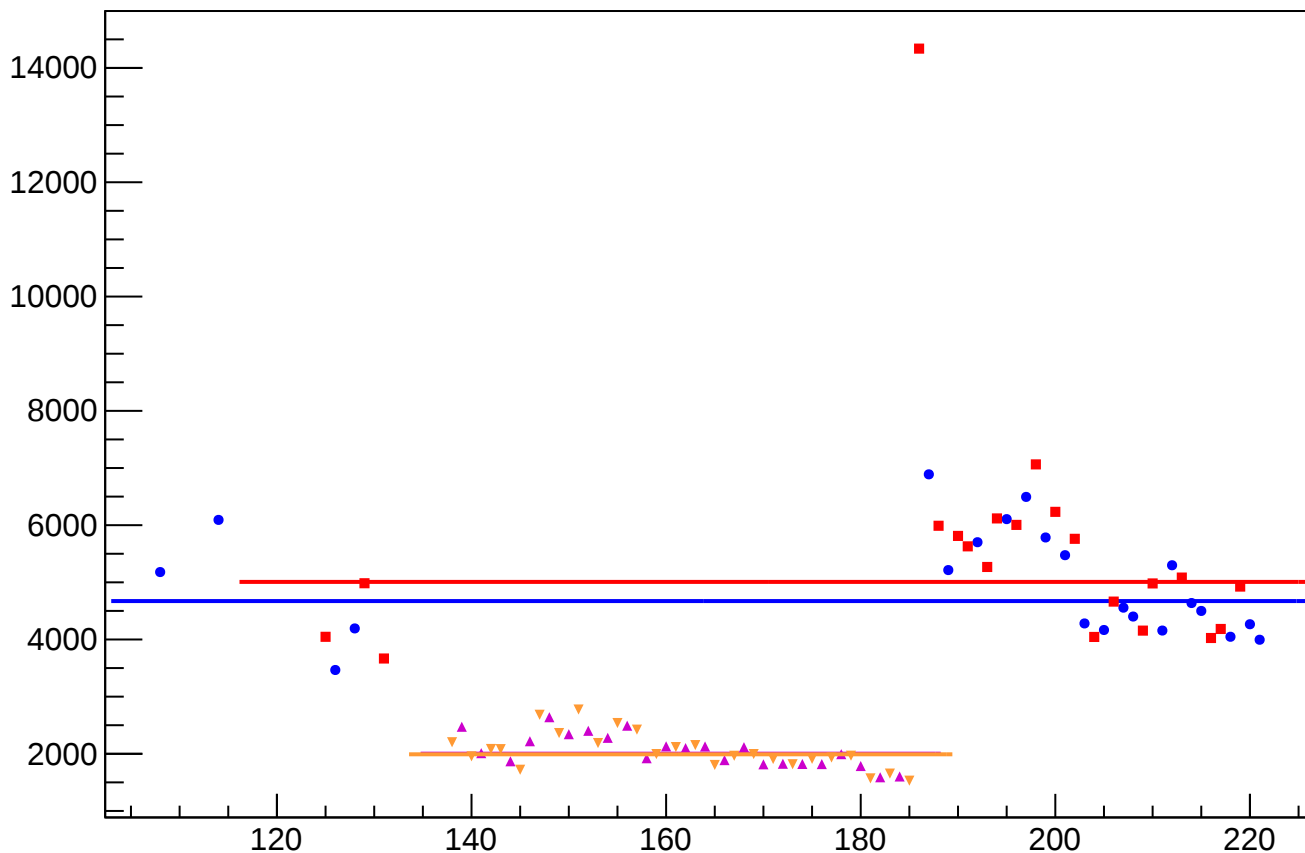
Right: -1220.926 $\pm$ 961.942 χ^2/NDF : 70.5/42

In: -980.474 $\pm$ 453.017 χ^2/NDF : 73.8/44

Out: -621.087 $\pm$ 446.043 χ^2/NDF : 72.4/45

All: -797.993 $\pm$ 317.837 χ^2/NDF : 146.5/90

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4672.230+/-0.913 χ^2/NDF : 619831.8/21

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5007.588+/-1.020 χ^2/NDF : 1013122.3/20

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

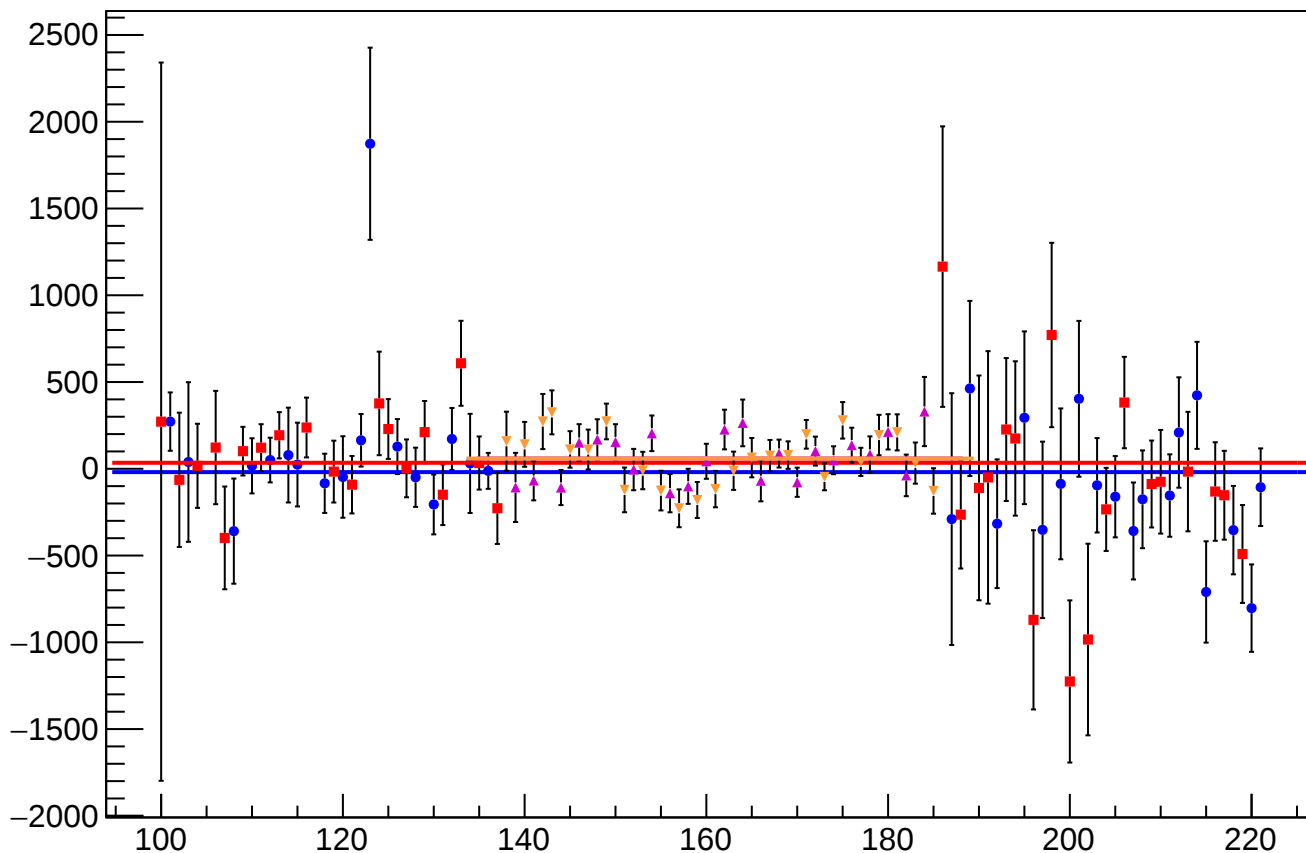
Right: 4821.408+/-0.680 χ^2/NDF : 1692984.3/42

In: 2330.914+/-0.320 χ^2/NDF : 8707131.9/44

Out: 2279.610+/-0.315 χ^2/NDF : 9651168.3/45

All: 2304.864+/-0.225 χ^2/NDF : 18371324.5/9

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: -19.182 ± 37.406 $\chi^2/\text{NDF}: 47.0/34$

Left Out: 58.983 ± 21.137 $\chi^2/\text{NDF}: 46.9/24$

Right Out: 34.610 ± 38.194 $\chi^2/\text{NDF}: 44.9/36$

Left In: 59.235 ± 21.921 $\chi^2/\text{NDF}: 29.4/22$

Left: 59.104 ± 15.216 $\chi^2/\text{NDF}: 76.3/47$

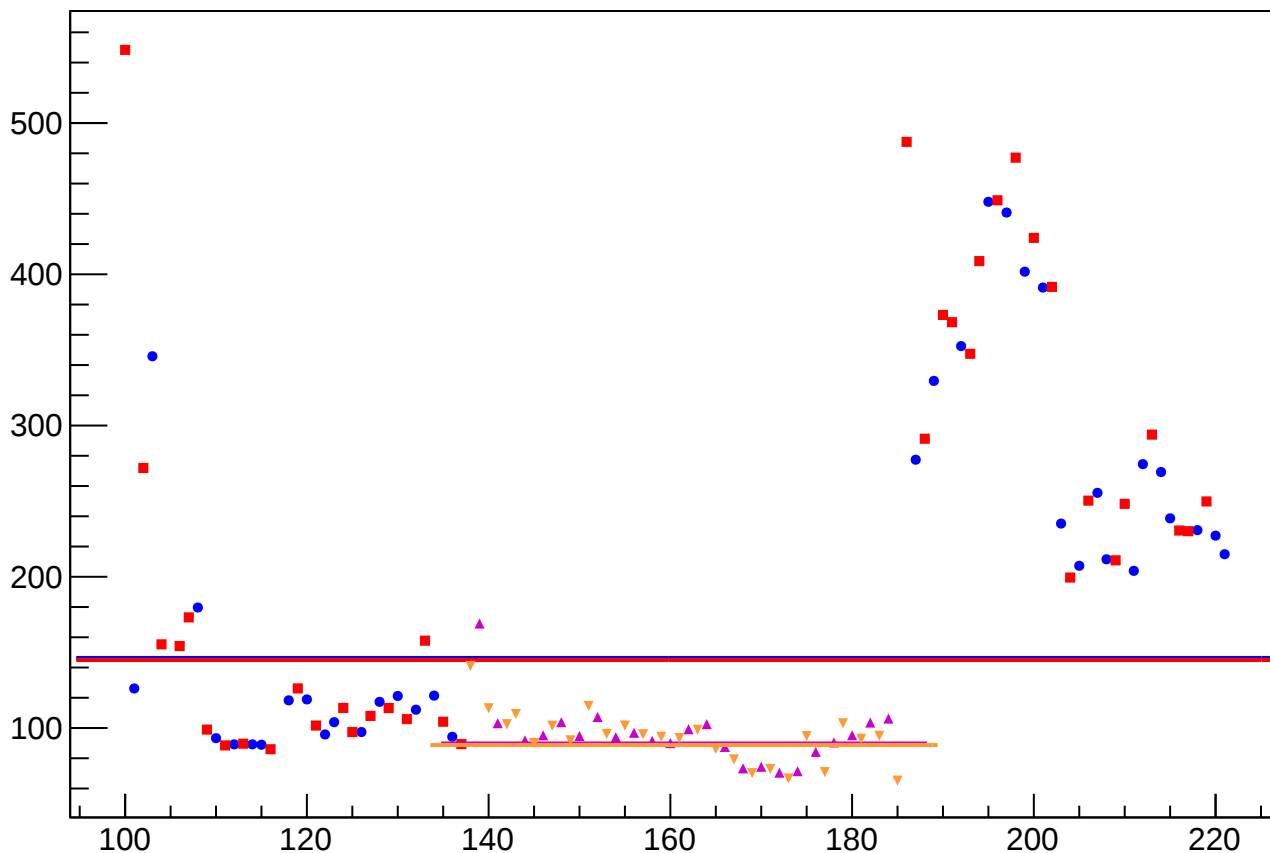
Right: 7.153 ± 26.724 $\chi^2/\text{NDF}: 92.9/71$

In: 39.188 ± 18.913 $\chi^2/\text{NDF}: 79.7/57$

Out: 53.268 ± 18.494 $\chi^2/\text{NDF}: 92.1/61$

All: 46.386 ± 13.223 $\chi^2/\text{NDF}: 172.1/119$

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 146.324 $\pm$ 0.026 χ^2 /NDF: 8422681.6/34

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 144.963 $\pm$ 0.027 χ^2 /NDF: 9216068.1/36

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

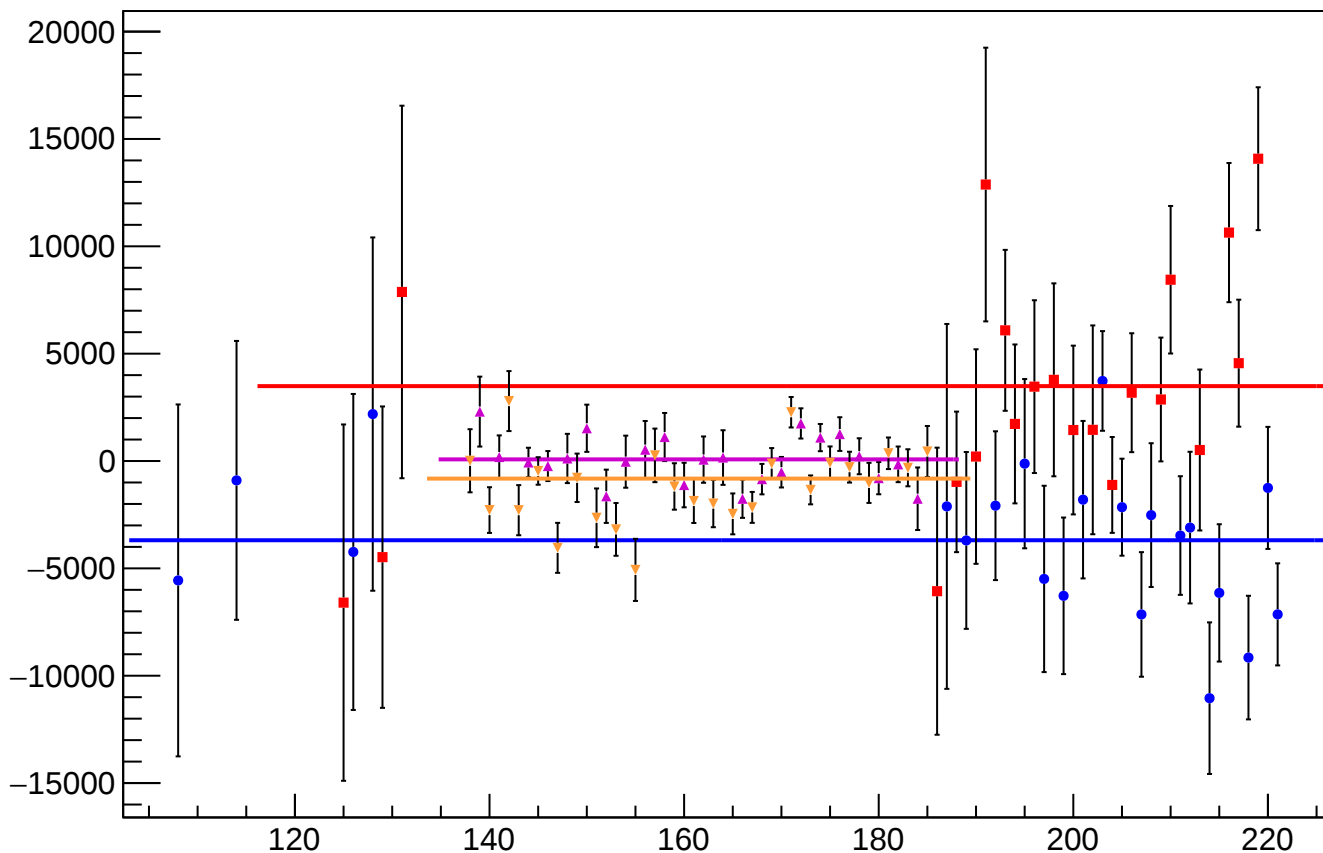
Right: 145.658 $\pm$ 0.019 χ^2 /NDF: 17640047.3/71

In: 104.224 $\pm$ 0.013 χ^2 /NDF:12712049.1/57

Out: 101.928 $\pm$ 0.013 χ^2 /NDF:13612038.0/61

All: 103.051 $\pm$ 0.009 χ^2 /NDF: 26339156.0/131

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3690.396 $\pm$ 726.405 χ^2 /NDF: 26.4/21

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 3487.823 $\pm$ 816.987 χ^2 /NDF: 32.8/20

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

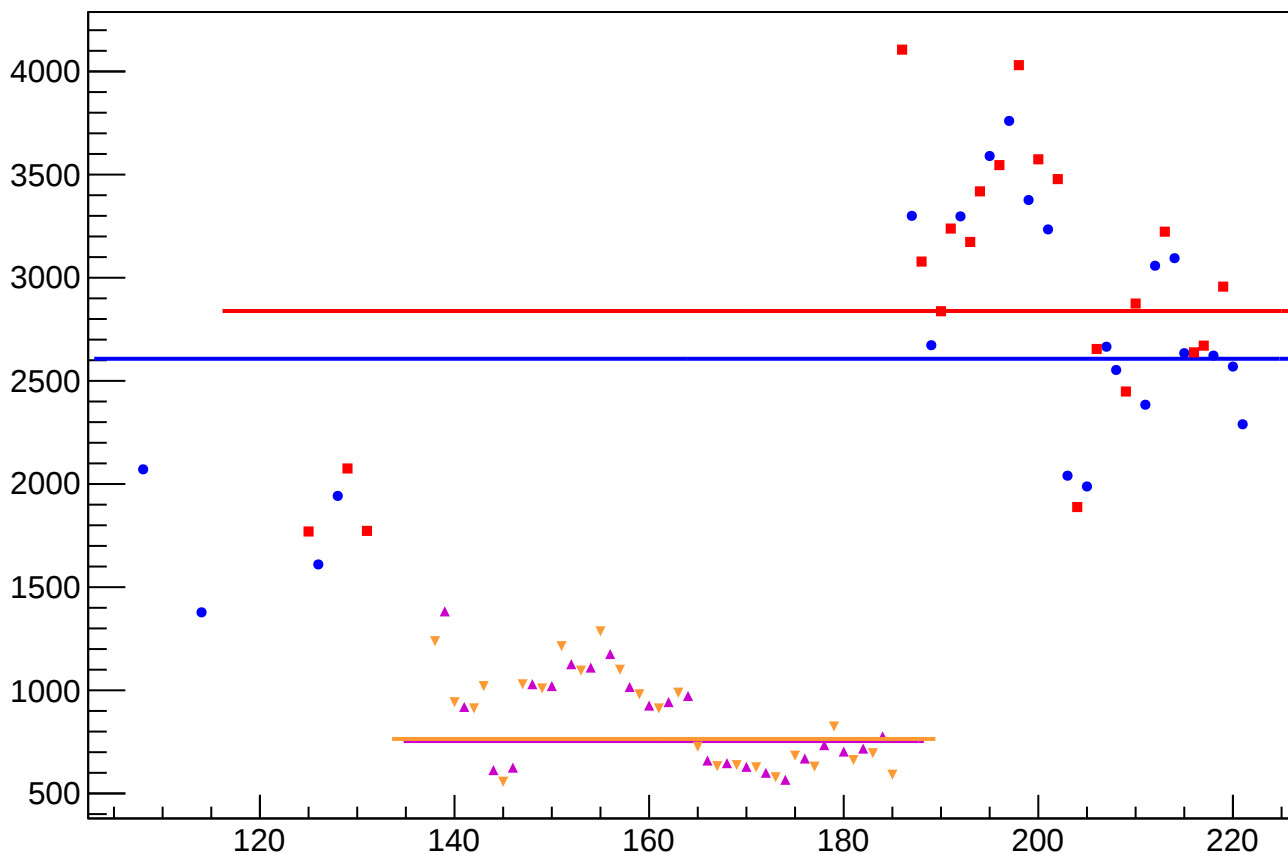
Right: -521.129 $\pm$ 542.858 χ^2 /NDF: 102.3/42

In: -157.079 $\pm$ 180.778 χ^2 /NDF:79.9/44

Out: -609.974 $\pm$ 179.935 χ^2 /NDF:127.5/45

All: -384.586 $\pm$ 127.530 χ^2 /NDF: 210.5/90

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2607.196 $\pm$ 0.514 χ^2 /NDF: 1027101.4/21

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2838.779 $\pm$ 0.578 χ^2 /NDF: 995452.8/20

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

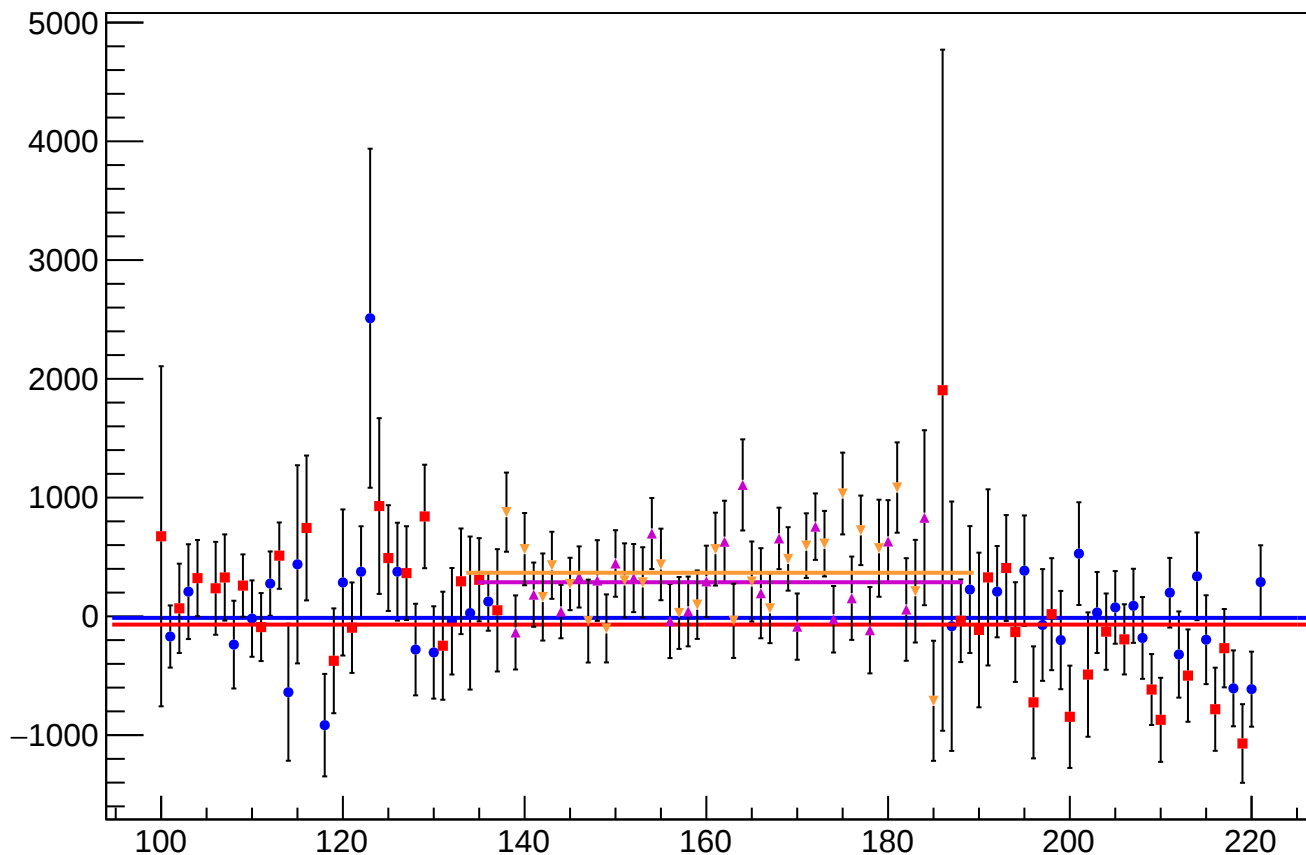
Right: 2709.443 $\pm$ 0.384 χ^2 /NDF: 2112302.5/42

In: 868.802 $\pm$ 0.128 χ^2 /NDF: 15251039.6/44

Out: 864.906 $\pm$ 0.127 χ^2 /NDF: 15581090.1/45

All: 866.845 $\pm$ 0.090 χ^2 /NDF: 30832596.4/90

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -12.810 ± 63.513 χ^2/NDF : 28.5/34

Left Out: 367.028 ± 61.943 χ^2/NDF : 28.2/24

Right Out: -69.459 ± 64.456 χ^2/NDF : 54.2/36

Left In: 287.246 ± 64.141 χ^2/NDF : 23.9/22

Left: 328.527 ± 44.557 χ^2/NDF : 52.9/47

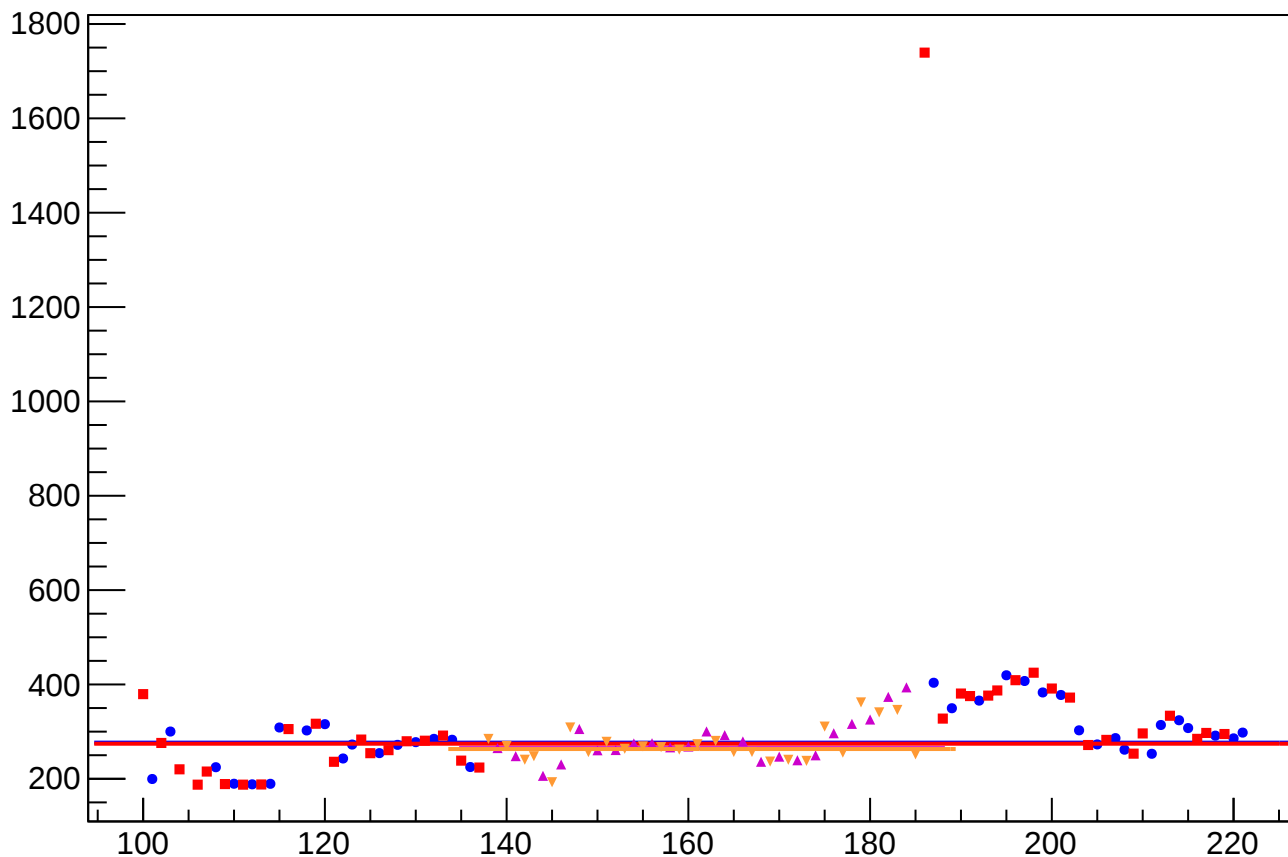
Right: -40.718 ± 45.240 χ^2/NDF : 83.2/71

In: 135.744 ± 45.131 χ^2/NDF : 63.5/57

Out: 157.456 ± 44.662 χ^2/NDF : 106.3/61

All: 146.713 ± 31.745 χ^2/NDF : 169.9/119

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 276.700 $\pm$ 0.045 χ^2 /NDF: 1626646.8/34

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 274.381 $\pm$ 0.046 χ^2 /NDF: 2478569.9/36

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

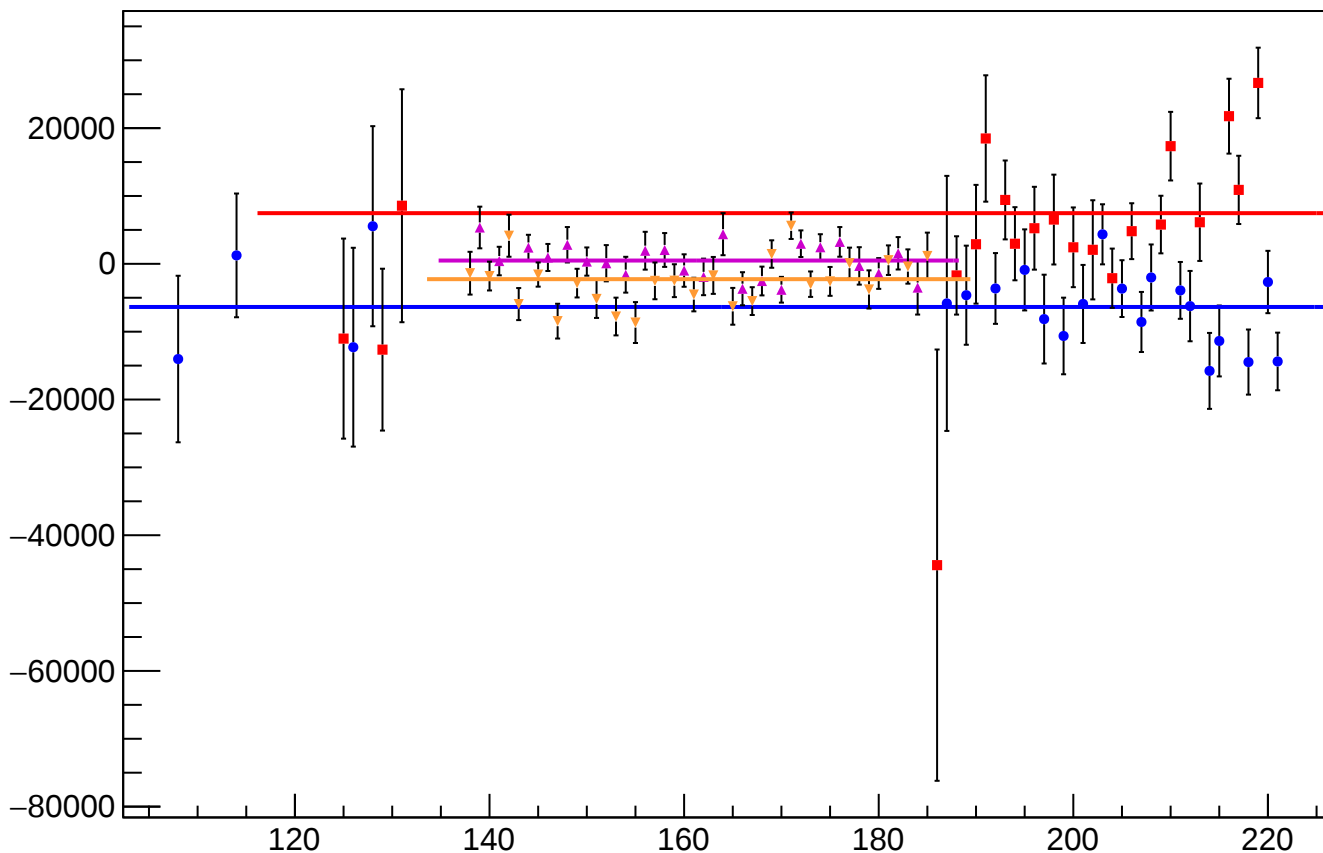
Right: 275.558 $\pm$ 0.032 χ^2 /NDF: 4106530.6/71

In: 270.870 $\pm$ 0.032 χ^2 /NDF: 2269717.8/57

Out: 268.518 $\pm$ 0.032 χ^2 /NDF: 3152628.3/61

All: 269.681 $\pm$ 0.022 χ^2 /NDF: 5425089.7/119

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -6358.121 $\pm$ 1187.147 χ^2/NDF : 22.2/21

Left Out: -2260.196 $\pm$ 475.336 χ^2/NDF : 52.3/24

Right Out: 7468.144 $\pm$ 1315.101 χ^2/NDF : 43.6/20

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

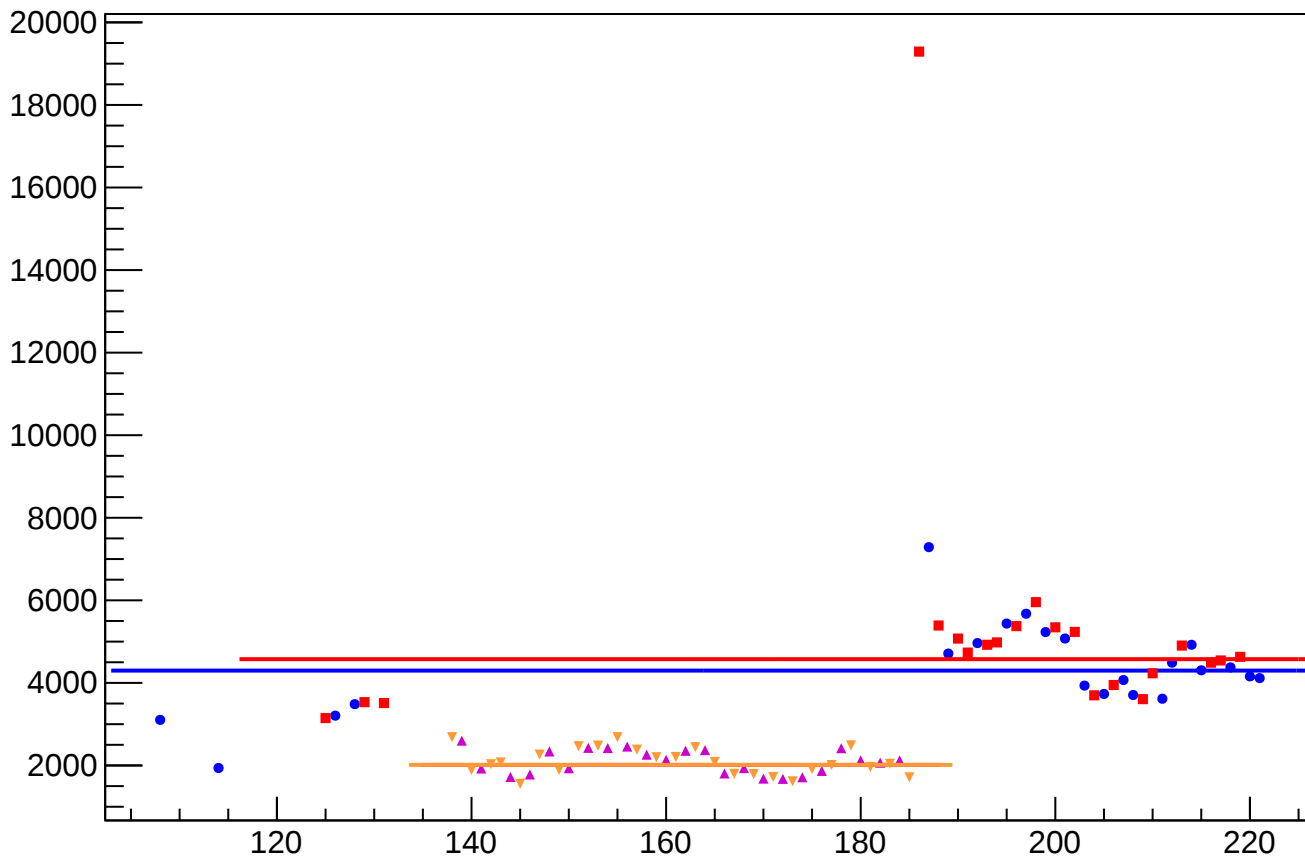
Right: -150.160 $\pm$ 881.214 χ^2/NDF : 126.7/42

In: -501.829 $\pm$ 450.930 χ^2/NDF : 75.4/44

Out: -1136.119 $\pm$ 447.031 χ^2/NDF : 144.3/45

All: -821.728 $\pm$ 317.468 χ^2/NDF : 220.7/90

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4298.229+/-0.839 χ^2/NDF : 683781.9/21

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4575.015+/-0.930 χ^2/NDF : 955730.9/20

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

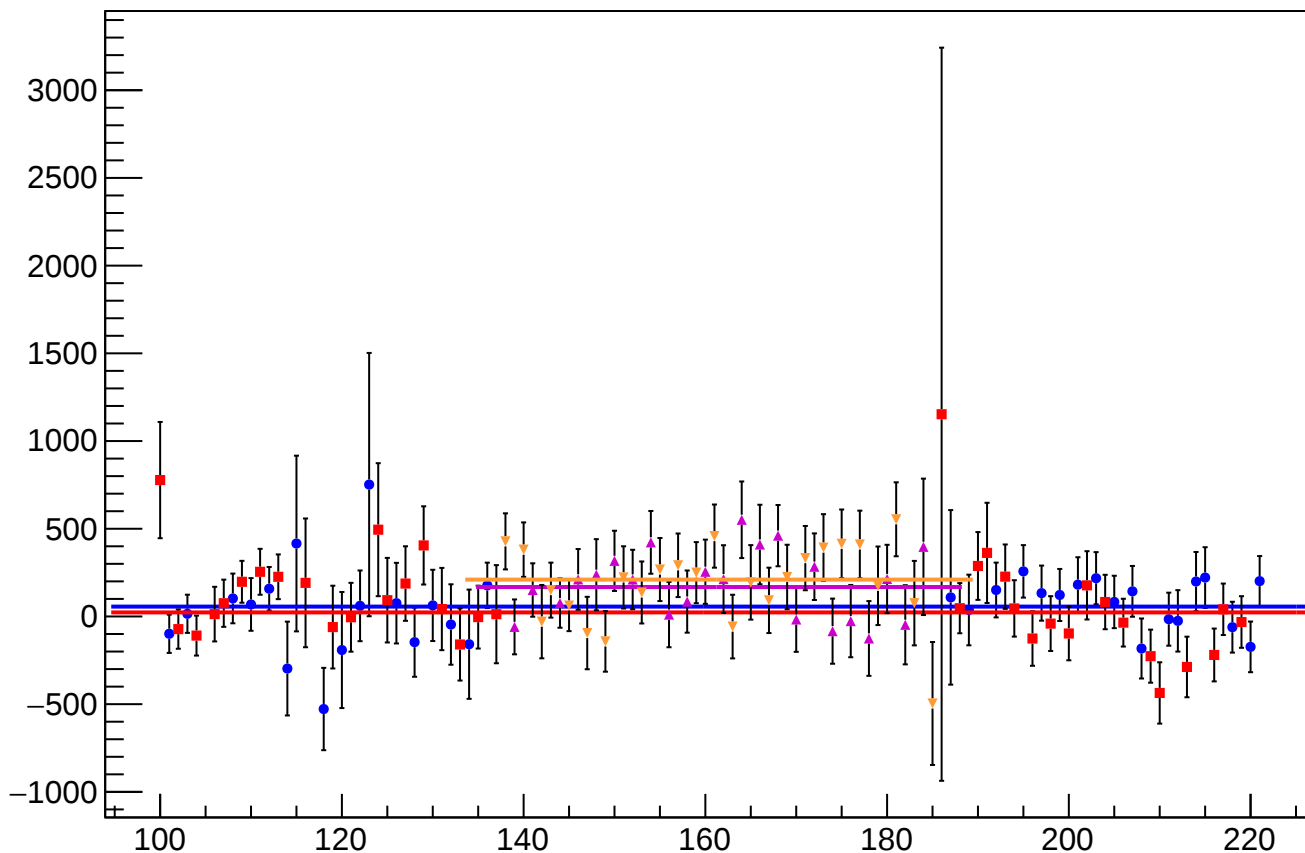
Right: 4422.505+/-0.623 χ^2/NDF : 1688327.9/42

In: 2342.925+/-0.319 χ^2/NDF : 7686283.1/44

Out: 2310.010+/-0.316 χ^2/NDF : 8499110.9/45

All: 2326.325+/-0.224 χ^2/NDF : 16190768.4/90

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 56.217 $\pm$ 28.171 χ^2 /NDF: 28.5/34

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 23.134 $\pm$ 27.666 χ^2 /NDF: 44.7/36

Left In: 167.822 $\pm$ 38.718 χ^2 /NDF:21.1/22

Left: 189.859 $\pm$ 26.785 χ^2 /NDF: 49.3/47

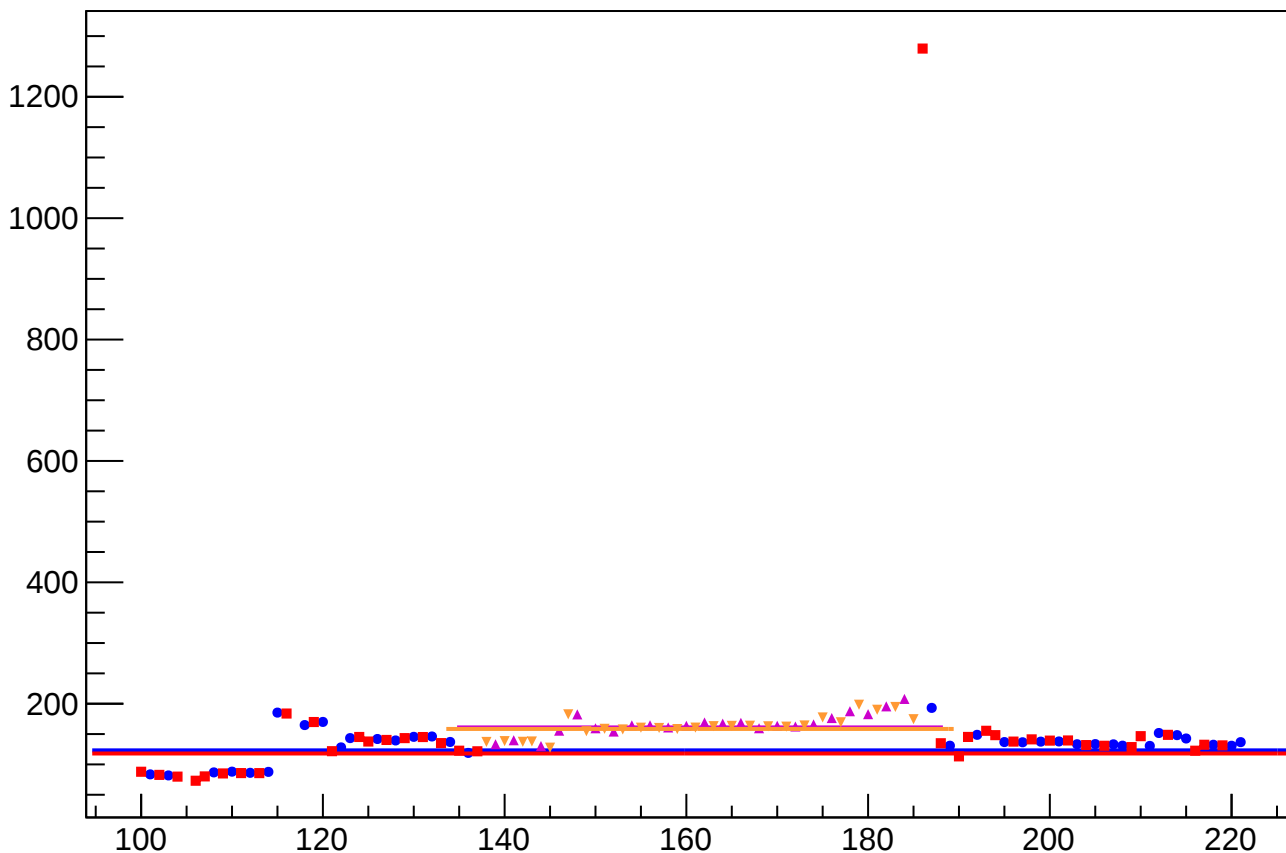
Right: 39.377 $\pm$ 19.739 χ^2 /NDF: 73.9/71

In: 94.849 $\pm$ 22.779 χ^2 /NDF:55.1/57

Out: 89.961 $\pm$ 22.177 χ^2 /NDF:88.5/61

All: 92.339 $\pm$ 15.890 χ^2 /NDF: 143.6/119

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 123.142 $\pm$ 0.020 χ^2 /NDF: 1574114.7/34

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 117.979 $\pm$ 0.020 χ^2 /NDF: 2595315.5/36

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

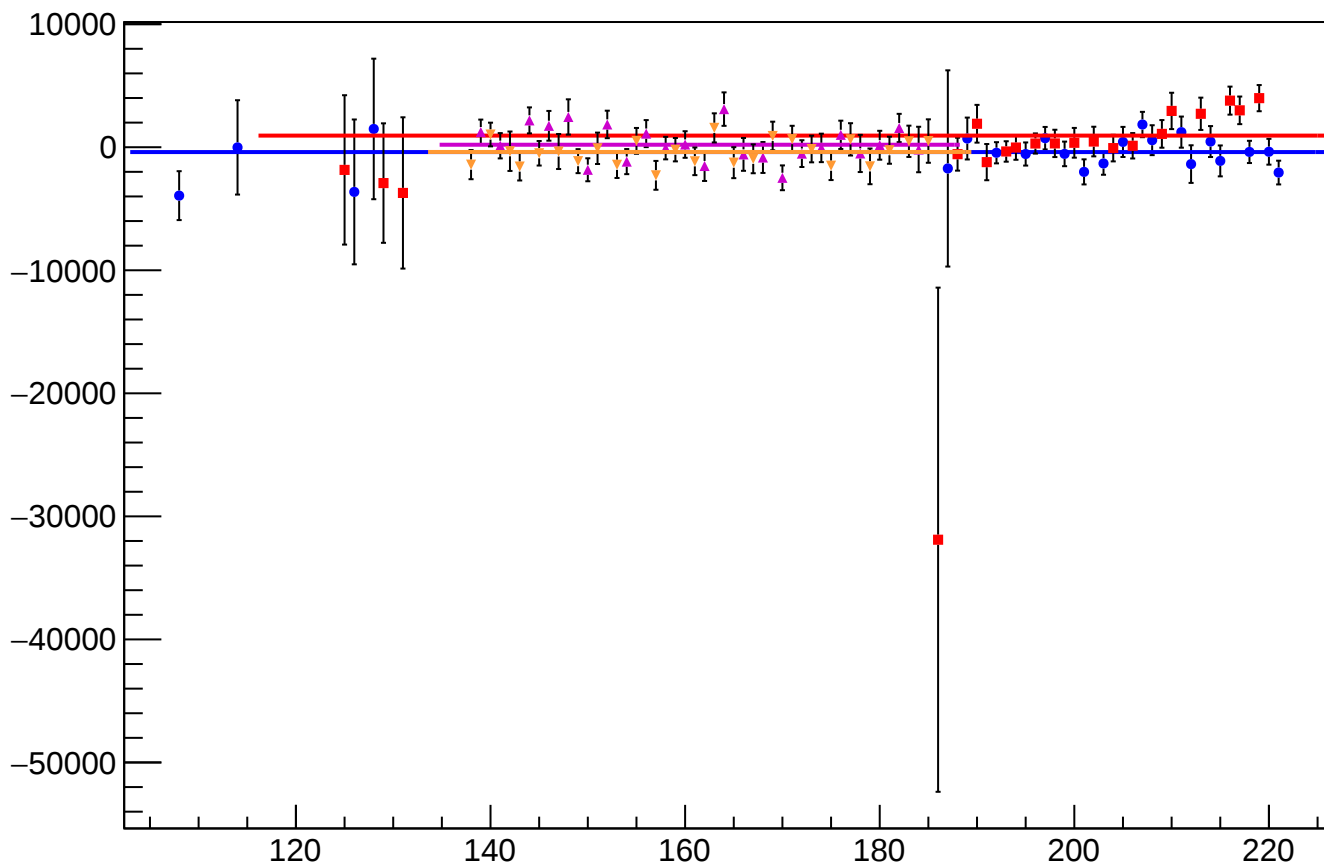
Right: 120.514 $\pm$ 0.014 χ^2 /NDF: 4203624.2/71

In: 136.228 $\pm$ 0.016 χ^2 /NDF: 3200624.0/57

Out: 132.442 $\pm$ 0.016 χ^2 /NDF: 4558653.4/61

All: 134.284 $\pm$ 0.011 χ^2 /NDF: 7787640.4/119

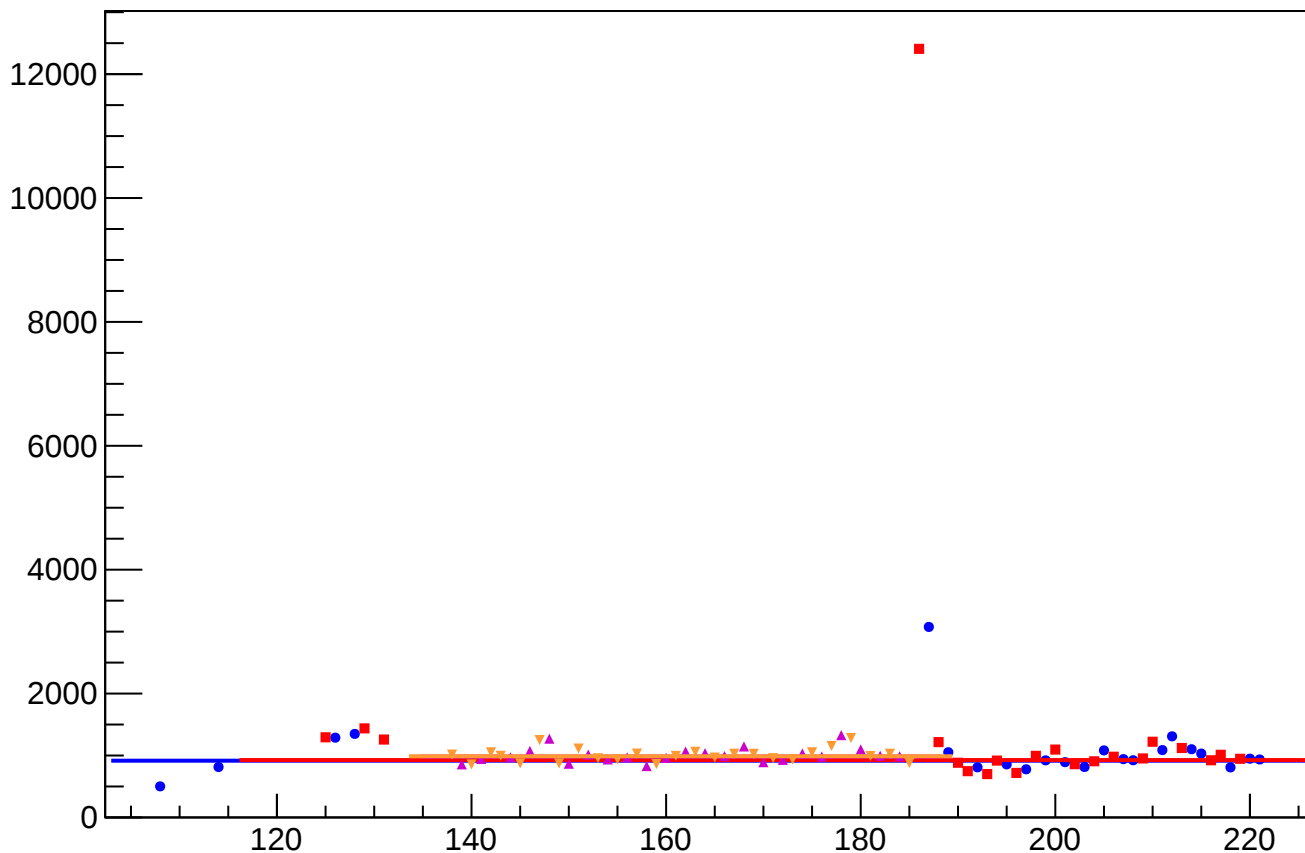
asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -393.321 ± 254.931 χ^2/NDF : 20.8/21
 Left Out: -385.018 ± 231.833 χ^2/NDF : 18.1/24
 Right Out: 944.719 ± 269.628 χ^2/NDF : 35.5/20
 Left In: 202.234 ± 237.460 χ^2/NDF : 35.5/22

Left: -98.432 ± 165.884 χ^2/NDF : 56.7/47
 Right: 238.238 ± 185.241 χ^2/NDF : 69.2/42
 In: -74.439 ± 173.758 χ^2/NDF : 59.2/44
 Out: 180.194 ± 175.788 χ^2/NDF : 67.5/45
 All: 51.399 ± 123.577 χ^2/NDF : 127.7/90

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 916.375+/-0.180 χ^2/NDF : 677394.1/21

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 926.085+/-0.191 χ^2/NDF : 1262507.3/20

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

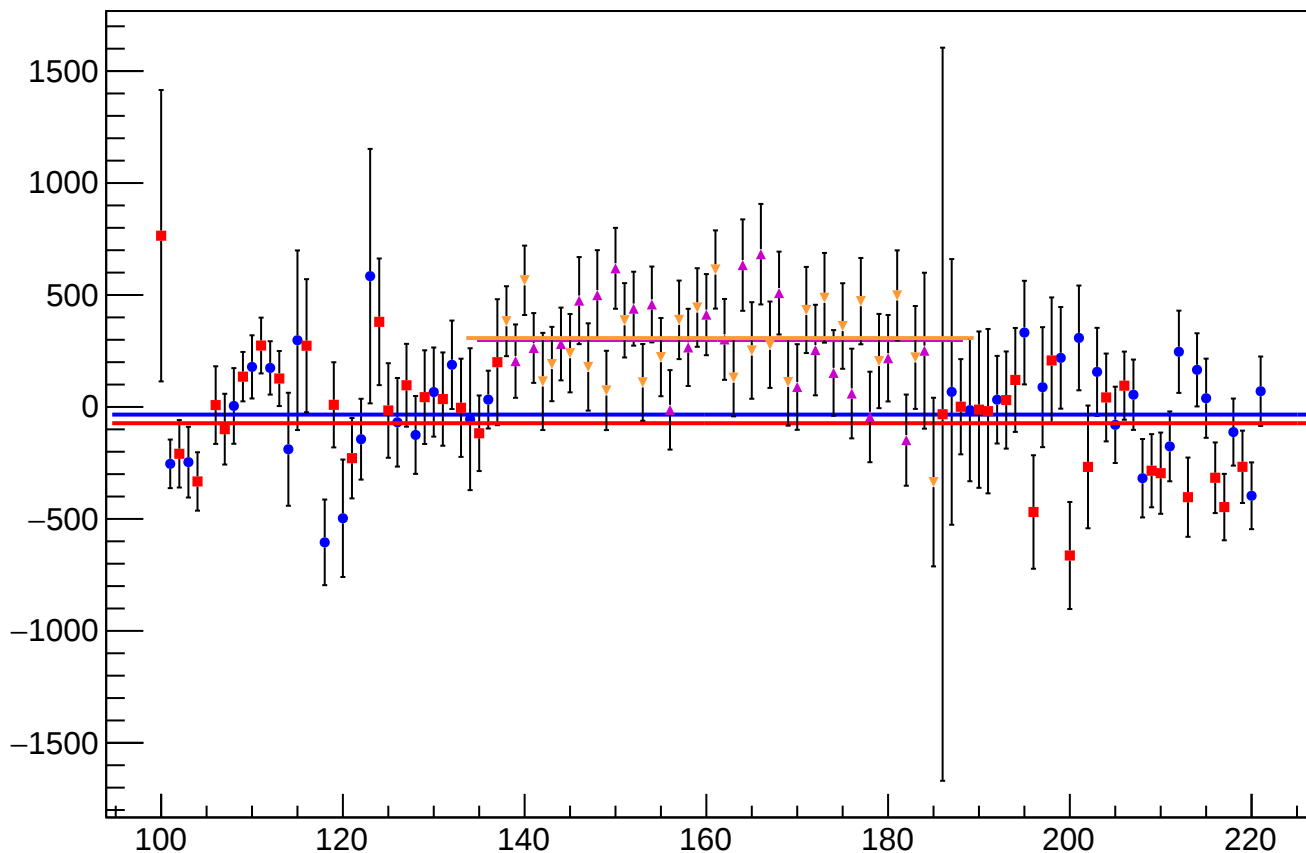
Right: 920.958+/-0.131 χ^2/NDF : 1941271.1/42

In: 952.527+/-0.123 χ^2/NDF : 1168777.1/44

Out: 961.607+/-0.124 χ^2/NDF : 1699843.1/45

All: 957.014+/-0.087 χ^2/NDF : 2871319.6/90

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -34.072 ± 30.540 $\chi^2/\text{NDF}: 49.7/34$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -72.546 ± 30.575 $\chi^2/\text{NDF}: 57.7/36$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

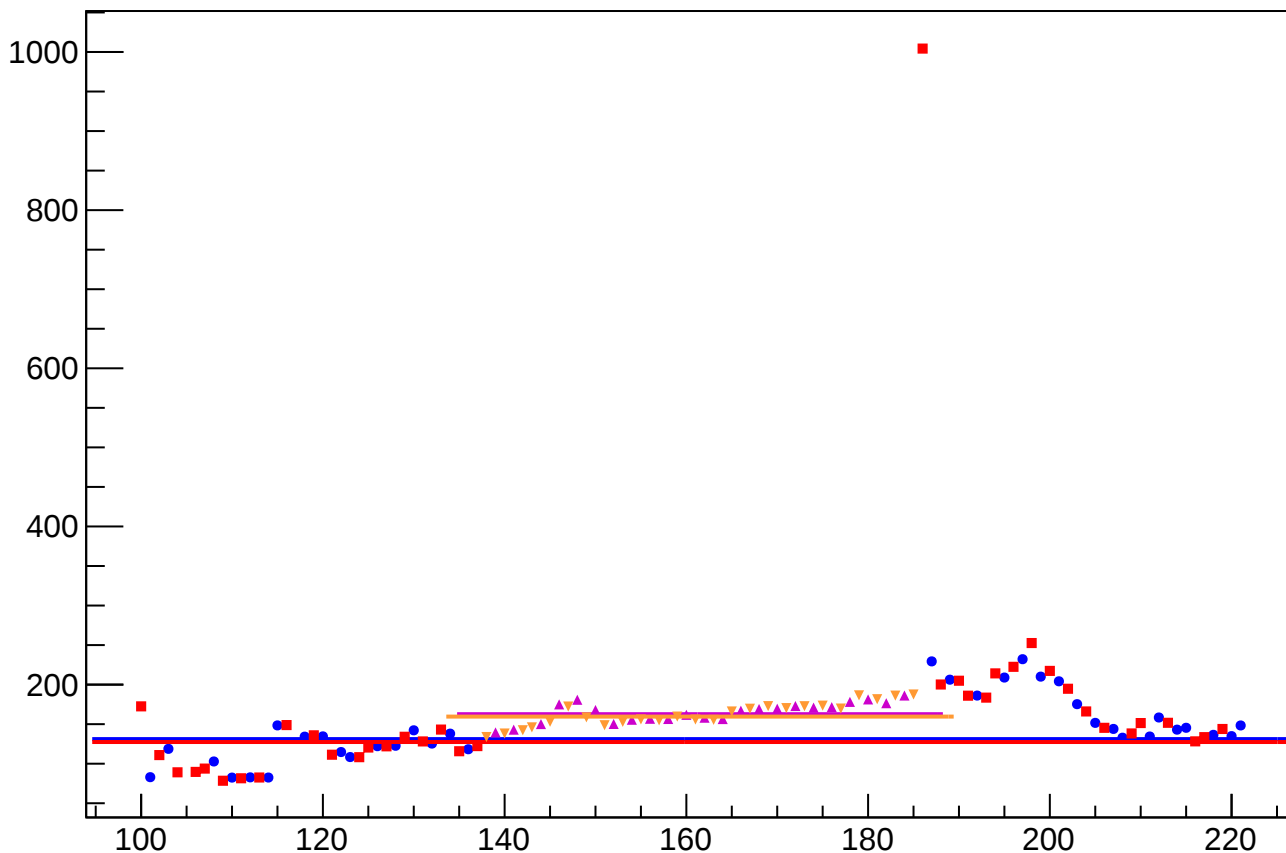
Right: -53.287 ± 21.607 $\chi^2/\text{NDF}: 108.2/71$

In: 92.573 ± 24.047 $\chi^2/\text{NDF}: 123.5/57$

Out: 80.291 ± 23.640 $\chi^2/\text{NDF}: 140.5/61$

All: 86.327 ± 16.858 $\chi^2/\text{NDF}: 264.2/119$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 131.109+/-0.022 χ^2/NDF : 2680697.3/34

Left Out: 159.568+/-0.026 χ^2/NDF : 287744.2/24

Right Out: 127.418+/-0.022 χ^2/NDF : 4051453.9/36

Left In: 162.606+/-0.028 χ^2/NDF : 199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

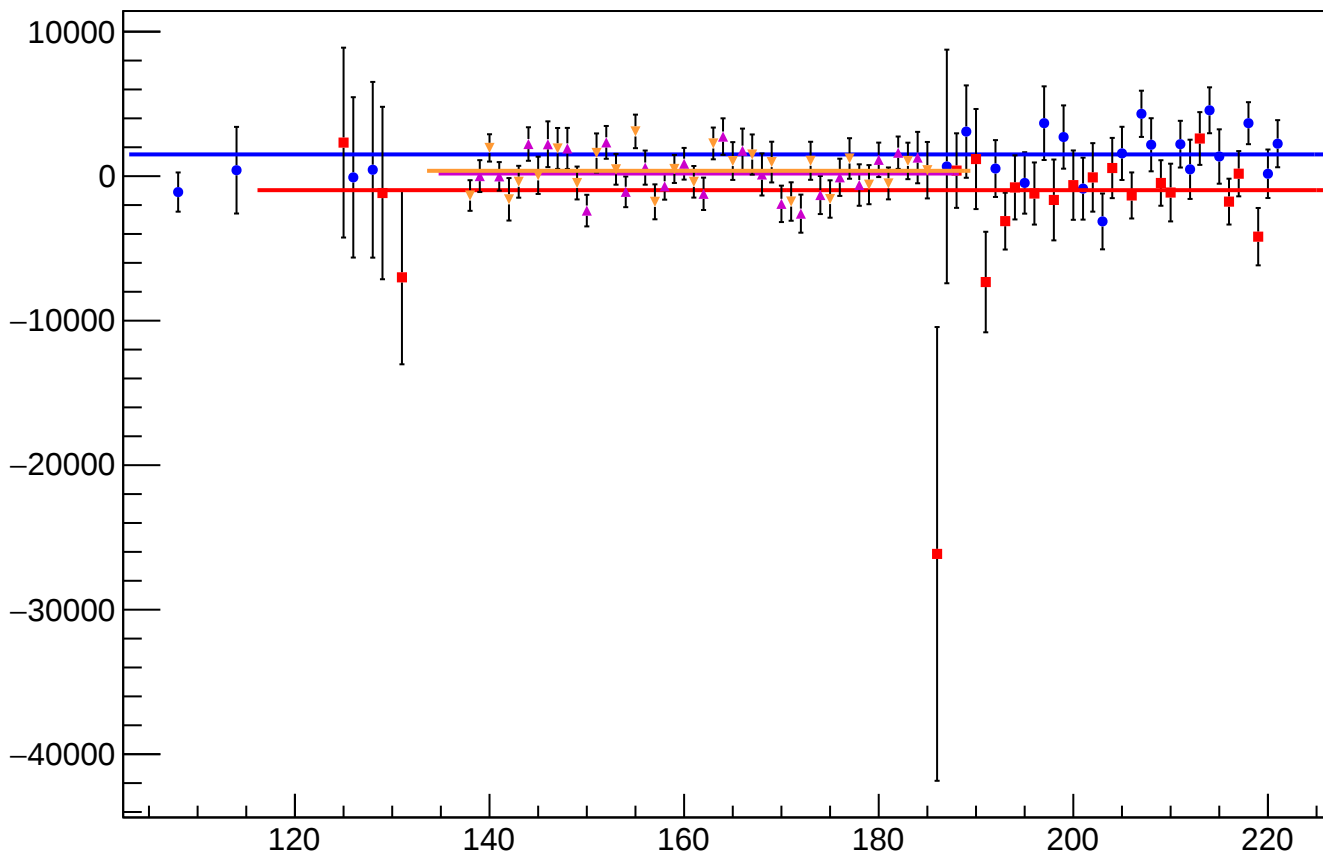
Right: 129.265+/-0.015 χ^2/NDF : 6746740.6/71

In: 143.078+/-0.017 χ^2/NDF : 3688662.5/57

Out: 140.348+/-0.017 χ^2/NDF : 5228588.8/61

All: 141.690+/-0.012 χ^2/NDF : 8930365.7/119

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1504.915+/-421.007 χ^2/NDF : 23.7/21

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -969.380+/-488.274 χ^2/NDF : 17.2/20

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

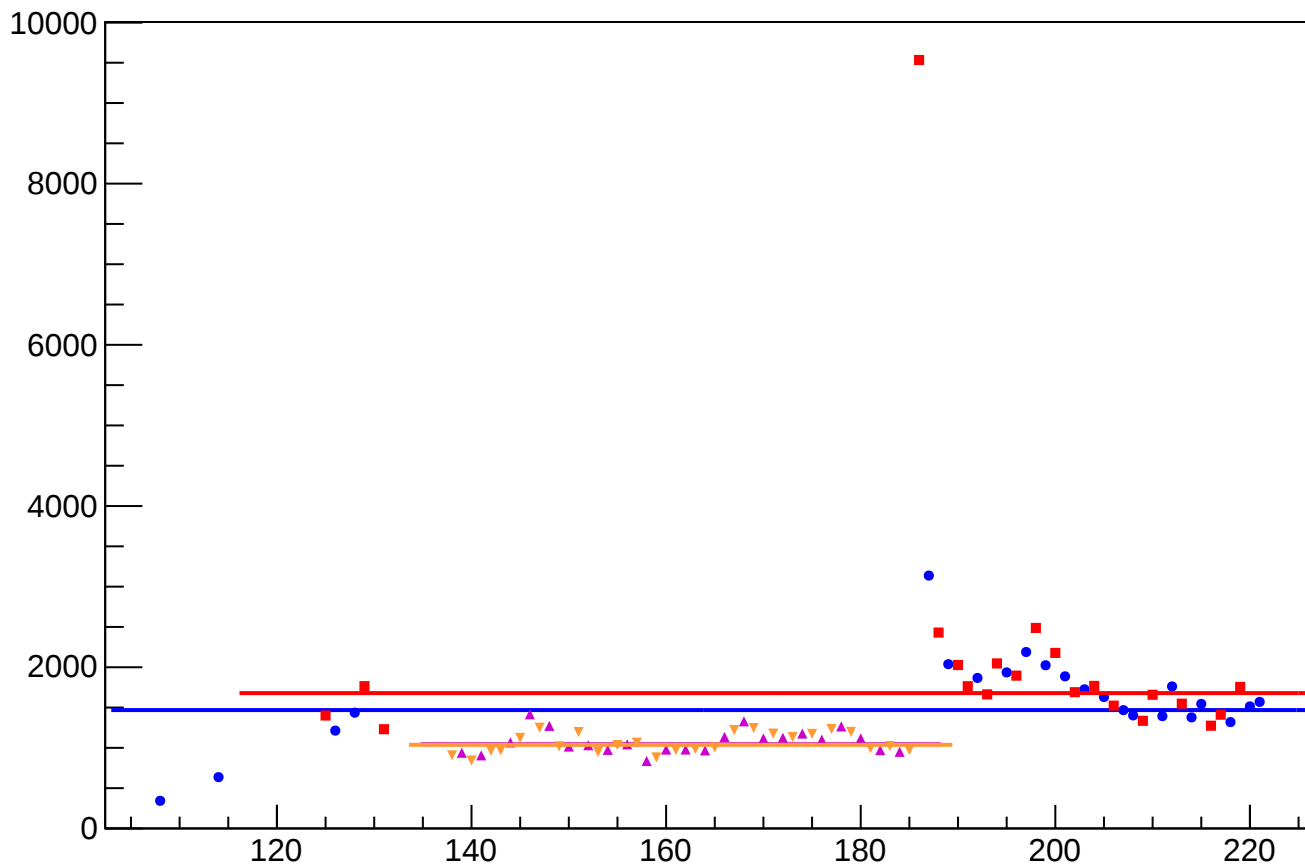
Right: 449.817+/-318.849 χ^2/NDF : 55.6/42

In: 532.293+/-216.388 χ^2/NDF :67.4/44

Out: 103.207+/-217.921 χ^2/NDF :53.7/45

All: 319.265+/-153.549 χ^2/NDF : 123.1/90

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1468.635+/-0.298 χ^2/NDF : 2366943.4/21

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1679.216+/-0.345 χ^2/NDF : 1355470.1/20

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

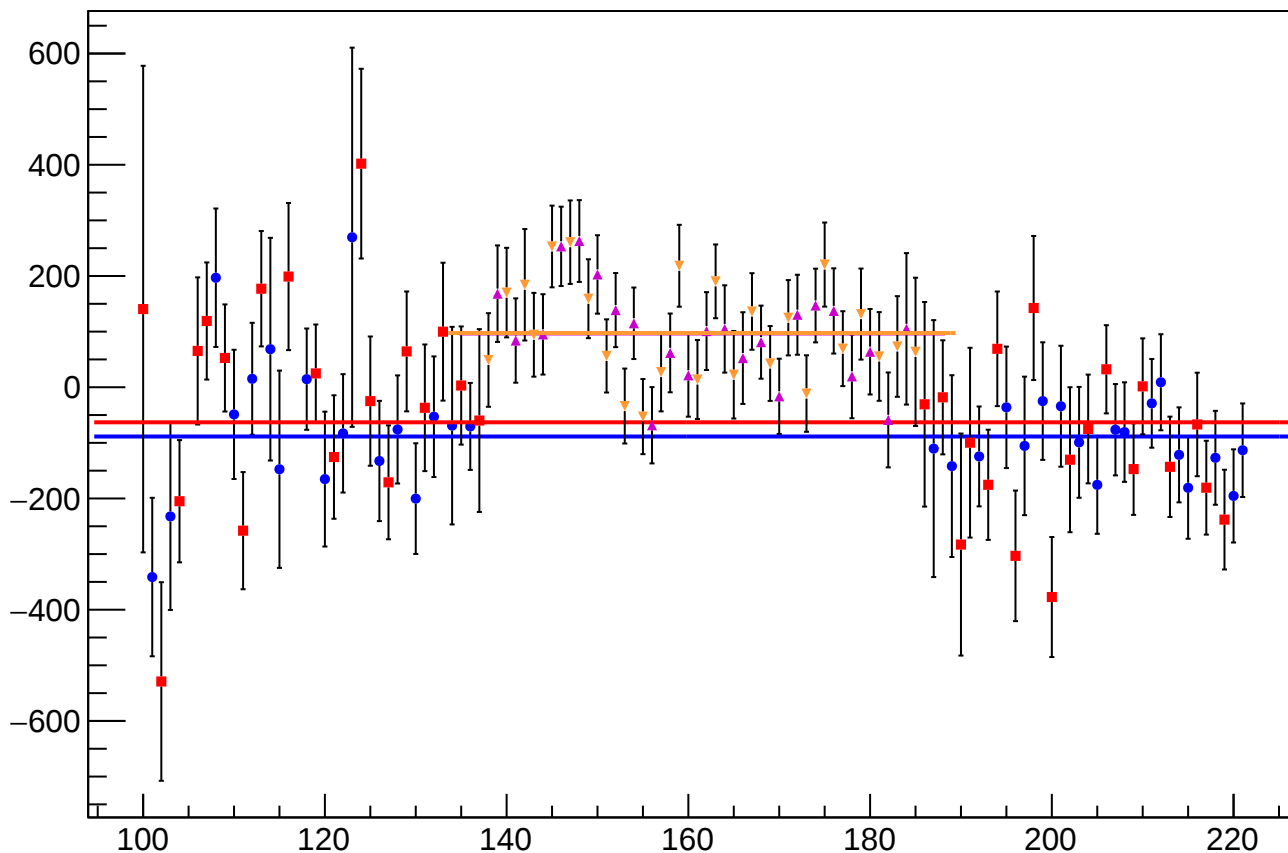
Right: 1558.432+/-0.225 χ^2/NDF : 3935783.6/42

In: 1156.726+/-0.153 χ^2/NDF : 4402134.3/44

Out: 1165.476+/-0.154 χ^2/NDF : 4615232.8/45

All: 1161.070+/-0.109 χ^2/NDF : 9018990.9/90

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -88.586 ± 17.639 χ^2/NDF : 22.5/34

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -63.055 ± 17.993 χ^2/NDF : 69.8/36

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

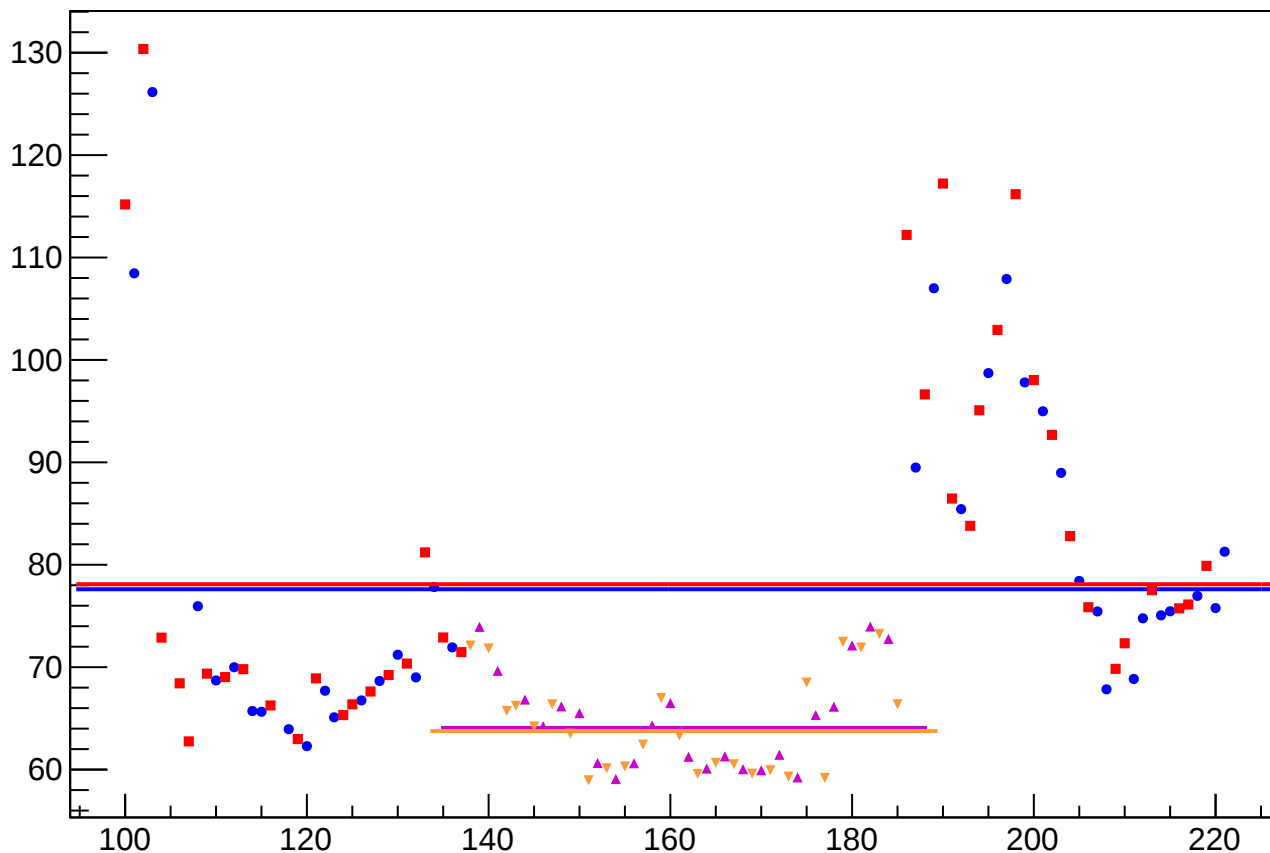
Right: -76.073 ± 12.596 χ^2/NDF : 93.3/71

In: 16.740 ± 11.588 χ^2/NDF : 114.5/57

Out: 32.259 ± 11.467 χ^2/NDF : 153.0/61

All: 24.581 ± 8.151 χ^2/NDF : 268.4/119

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.608 $\pm$ 0.012 χ^2 /NDF: 953420.8/34

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 78.097 $\pm$ 0.013 χ^2 /NDF: 1132015.8/36

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

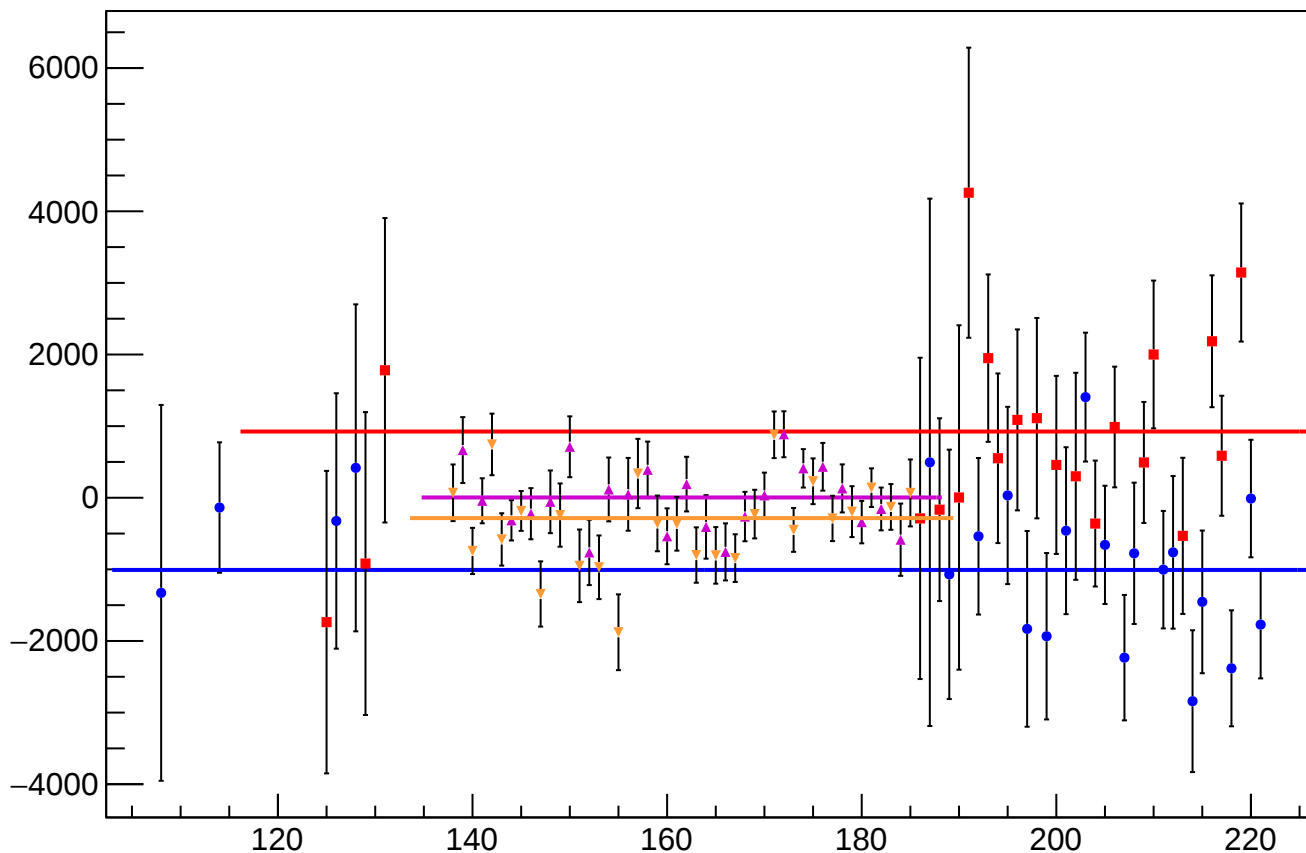
Right: 77.848 $\pm$ 0.009 χ^2 /NDF: 2086187.9/71

In: 69.912 $\pm$ 0.008 χ^2 /NDF:1787931.5/57

Out: 69.583 $\pm$ 0.008 χ^2 /NDF:2078773.1/61

All: 69.746 $\pm$ 0.006 χ^2 /NDF: 3867515.8/119

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -1007.866 ± 223.747 $\chi^2/\text{NDF}: 22.2/21$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 924.648 ± 256.758 $\chi^2/\text{NDF}: 20.2/20$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

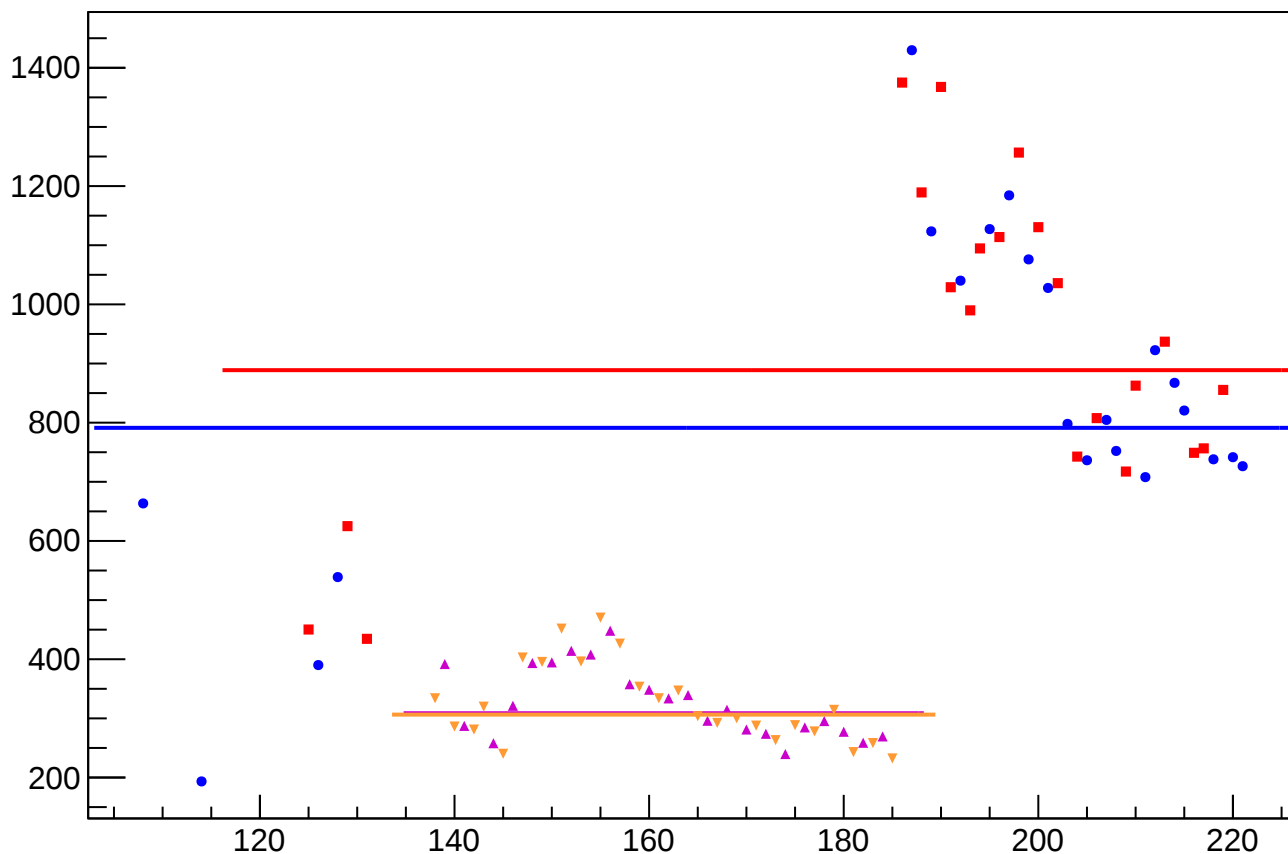
Right: -173.749 ± 168.685 $\chi^2/\text{NDF}: 74.6/42$

In: -98.382 ± 71.183 $\chi^2/\text{NDF}: 72.9/44$

Out: -194.499 ± 69.979 $\chi^2/\text{NDF}: 95.8/45$

All: -147.260 ± 49.903 $\chi^2/\text{NDF}: 169.7/90$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 791.247+/-0.158 χ^2/NDF : 1852600.7/21

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 888.774+/-0.182 χ^2/NDF : 1135476.4/20

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

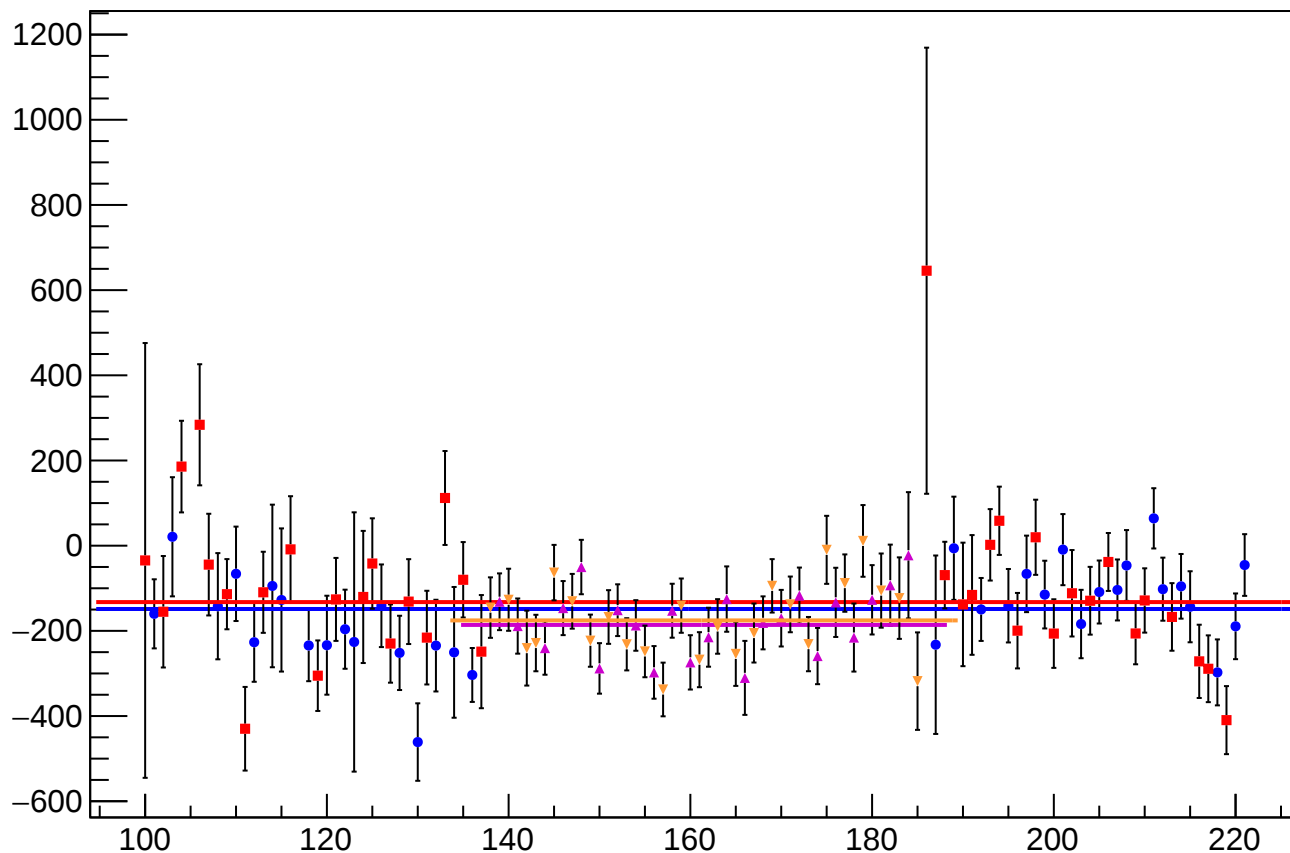
Right: 833.342+/-0.119 χ^2/NDF : 3152089.6/42

In: 357.564+/-0.050 χ^2/NDF : 11215470.2/44

Out: 349.626+/-0.049 χ^2/NDF : 11877388.1/45

All: 353.527+/-0.035 χ^2/NDF : 23105507.1/90

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -148.638 ± 15.172 $\chi^2/\text{NDF}: 48.7/34$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -132.439 ± 15.679 $\chi^2/\text{NDF}: 78.4/36$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

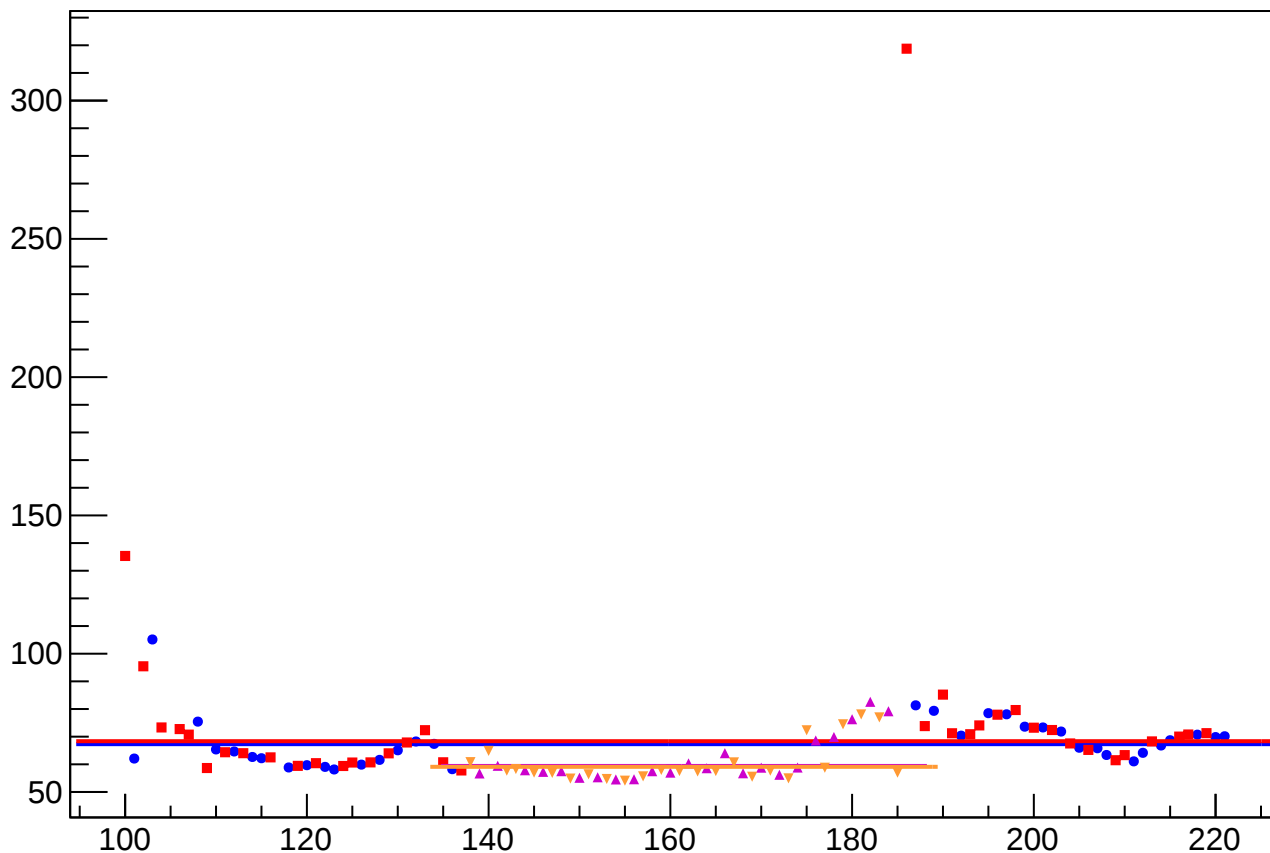
Right: -140.805 ± 10.903 $\chi^2/\text{NDF}: 127.6/71$

In: -168.428 ± 10.412 $\chi^2/\text{NDF}: 75.5/57$

Out: -156.617 ± 10.378 $\chi^2/\text{NDF}: 117.2/61$

All: -162.504 ± 7.351 $\chi^2/\text{NDF}: 193.4/119$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.290 $\pm$ 0.011 χ^2 /NDF: 436308.0/34

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.360 $\pm$ 0.011 χ^2 /NDF: 878334.5/36

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

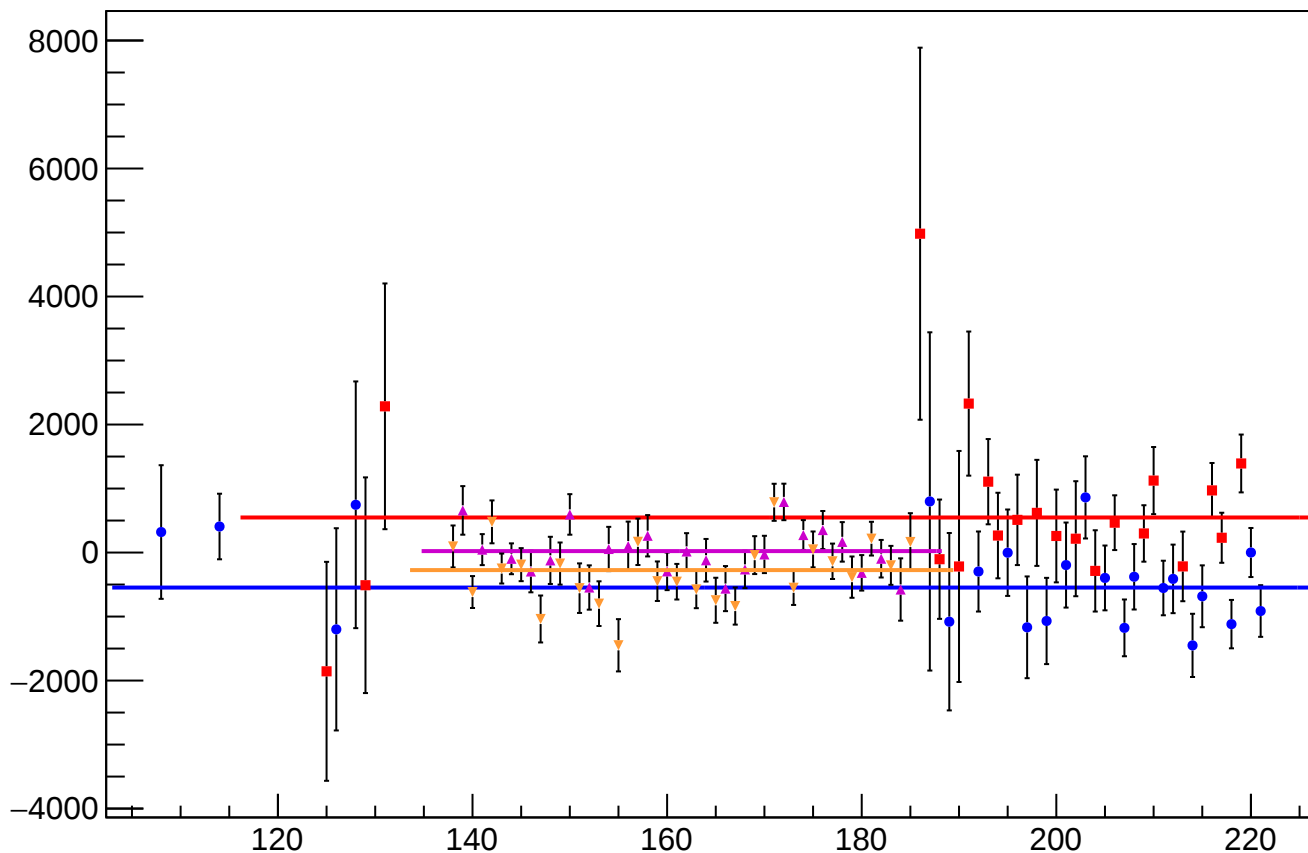
Right: 67.807 $\pm$ 0.008 χ^2 /NDF: 1319450.5/71

In: 63.122 $\pm$ 0.007 χ^2 /NDF: 1094760.5/57

Out: 63.157 $\pm$ 0.007 χ^2 /NDF: 1640116.3/61

All: 63.139 $\pm$ 0.005 χ^2 /NDF: 2734888.3/119

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -546.933+/-120.014 χ^2/NDF : 23.2/21

Left Out: -274.091+/-60.799 χ^2/NDF : 53.9/24

Right Out: 547.830+/-139.455 χ^2/NDF : 20.3/20

Left In: 22.631+/-63.643 χ^2/NDF : 28.9/22

Left: -132.507+/-43.963 χ^2/NDF : 94.2/47

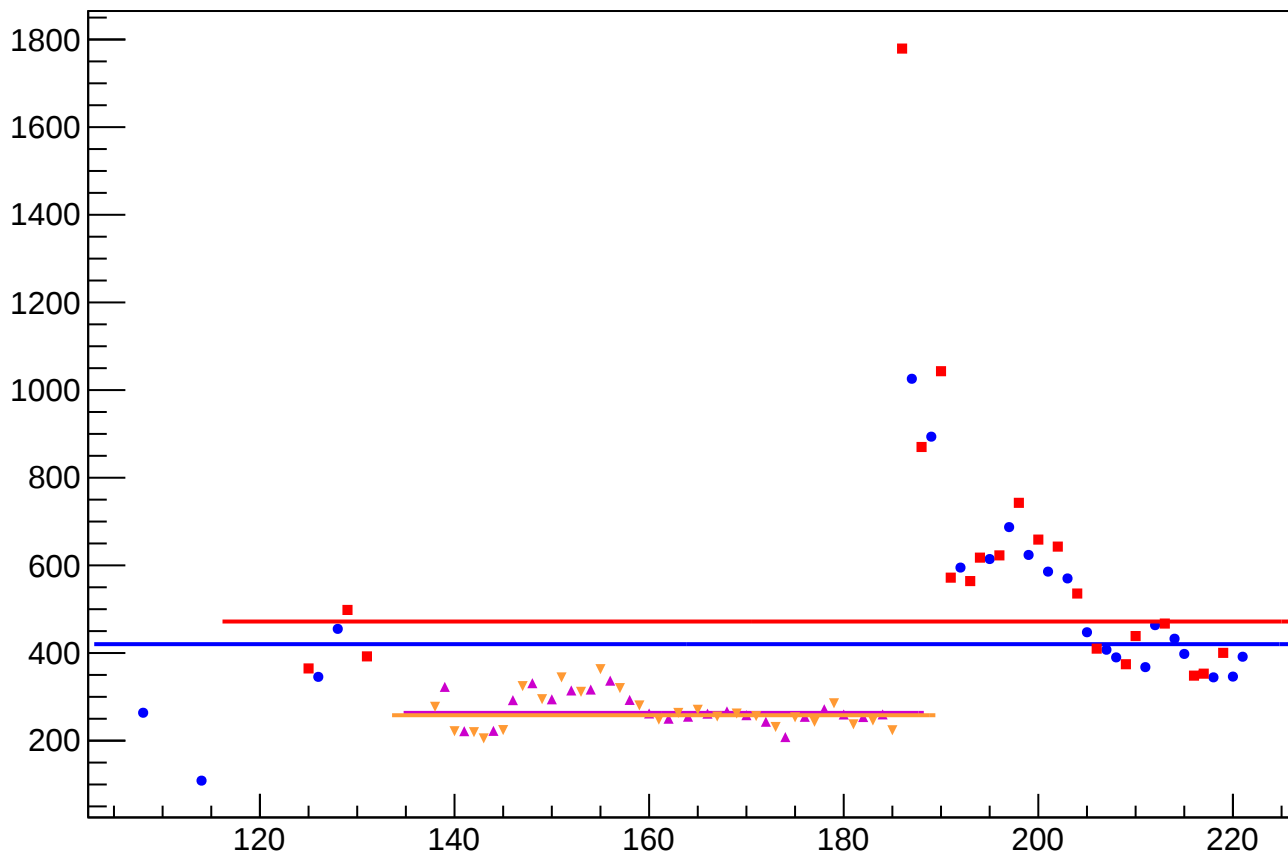
Right: -81.121+/-90.966 χ^2/NDF : 78.8/42

In: -102.383+/-56.226 χ^2/NDF : 69.6/44

Out: -142.816+/-55.733 χ^2/NDF : 103.4/45

All: -122.778+/-39.582 χ^2/NDF : 173.3/90

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 420.218+/-0.085 χ^2/NDF : 2319516.7/21

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 471.871+/-0.099 χ^2/NDF : 2211284.5/20

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

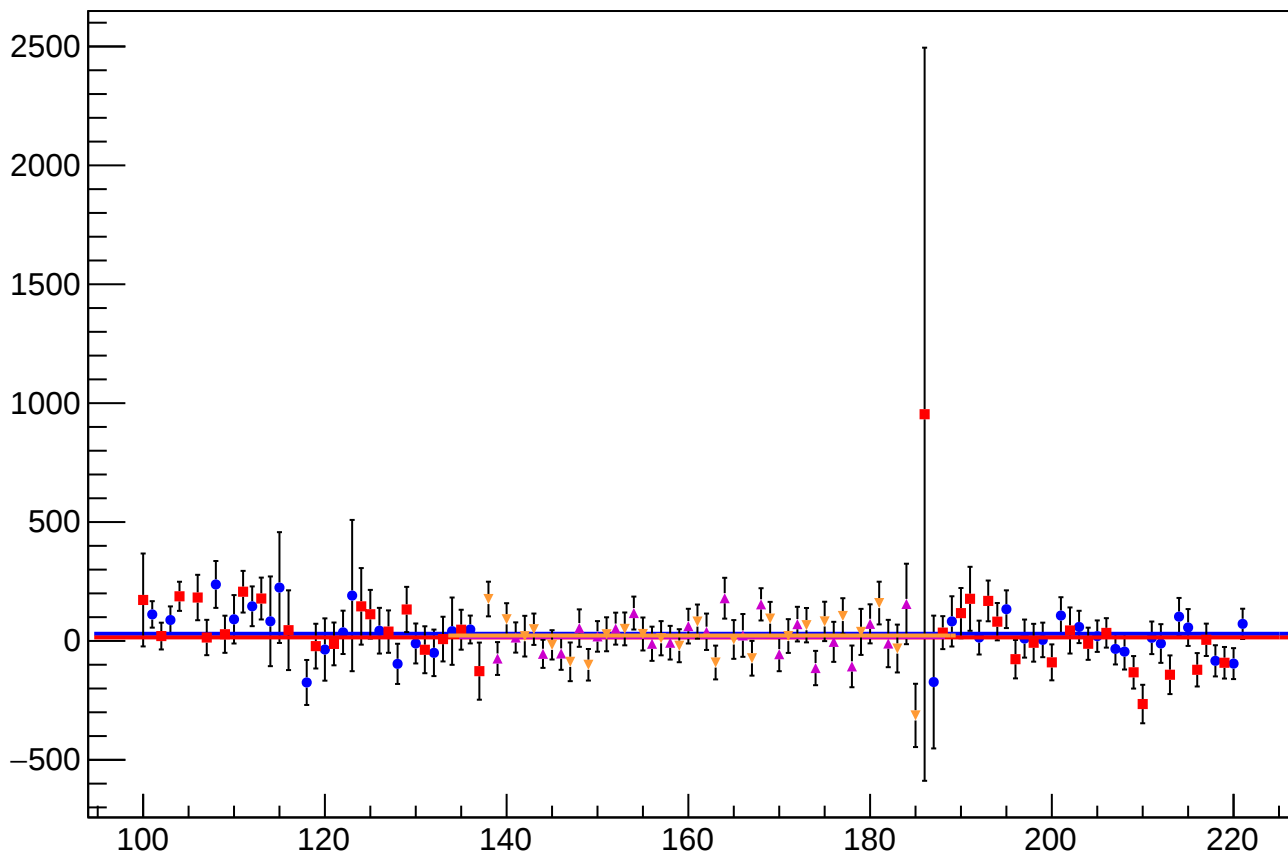
Right: 442.196+/-0.064 χ^2/NDF : 4688434.3/42

In: 297.817+/-0.040 χ^2/NDF : 5570455.8/44

Out: 292.193+/-0.039 χ^2/NDF : 6887266.5/45

All: 294.980+/-0.028 χ^2/NDF : 12467818.4/90

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 30.176 $\pm$ 13.621 χ^2 /NDF: 33.4/34

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 14.870 $\pm$ 13.764 χ^2 /NDF: 62.3/36

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

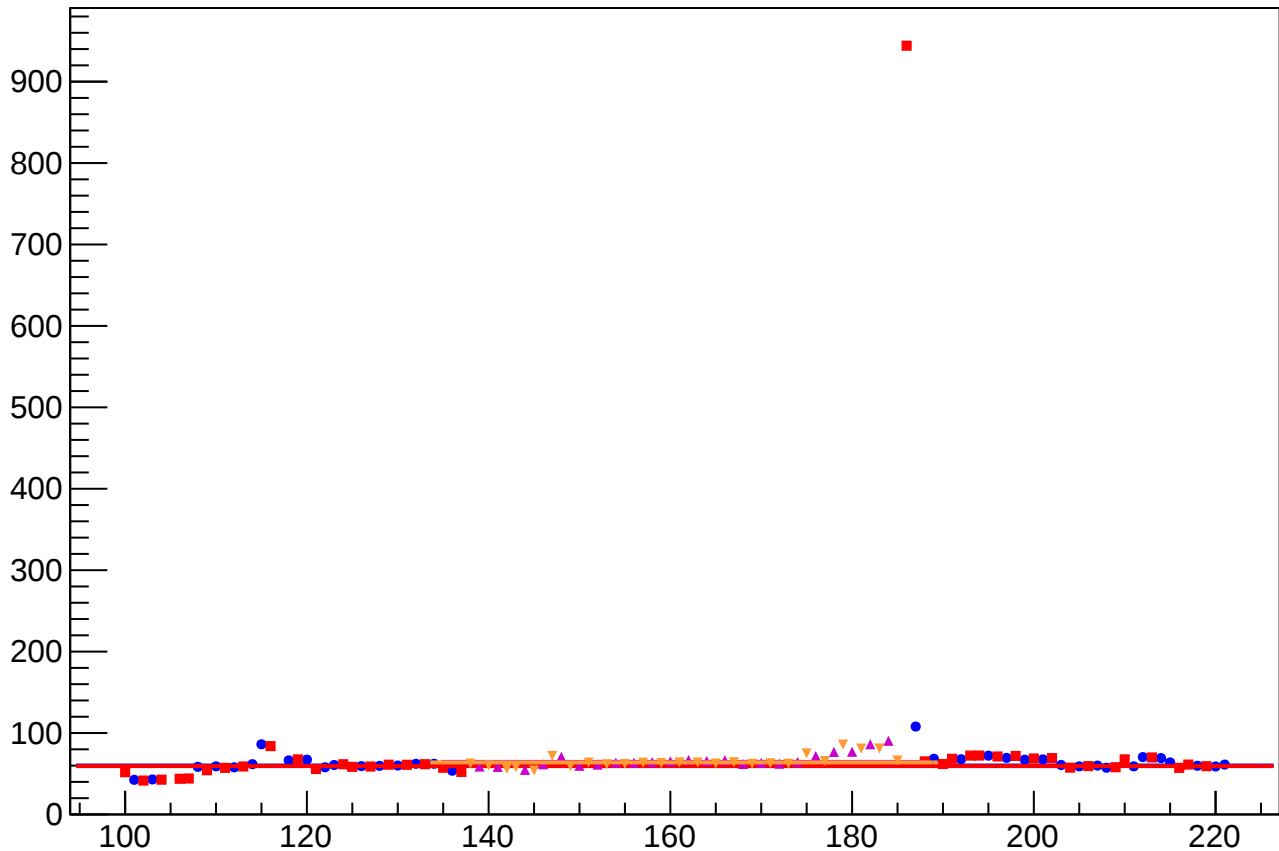
Right: 22.603 $\pm$ 9.681 χ^2 /NDF: 96.3/71

In: 24.099 $\pm$ 10.240 χ^2 /NDF:57.2/57

Out: 18.536 $\pm$ 10.132 χ^2 /NDF:91.5/61

All: 21.288 $\pm$ 7.202 χ^2 /NDF: 148.8/119

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.088 $\pm$ 0.010 χ^2 /NDF: 724124.9/34

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.380 $\pm$ 0.010 χ^2 /NDF: 1556402.0/36

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

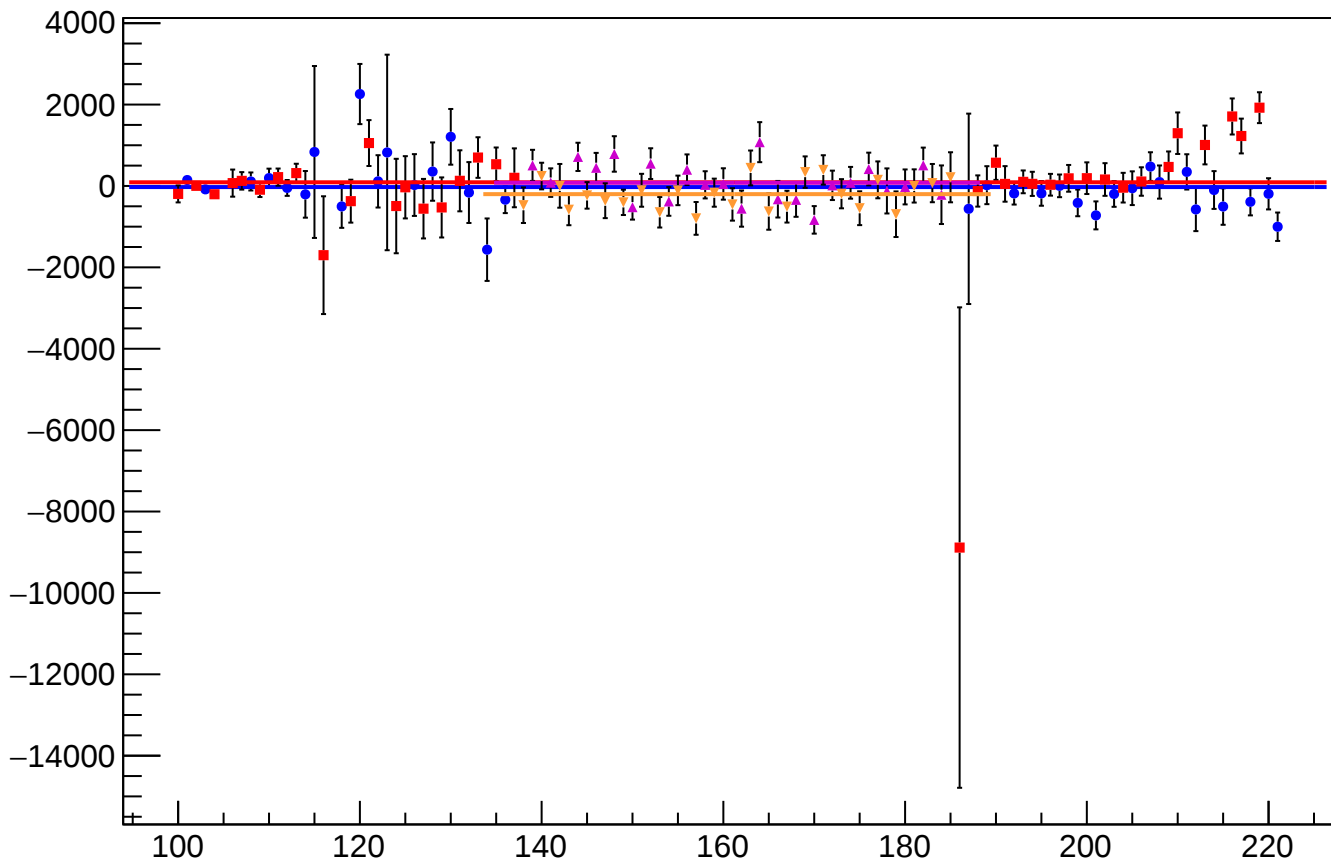
Right: 59.738 $\pm$ 0.007 χ^2 /NDF: 2283202.7/71

In: 62.011 $\pm$ 0.007 χ^2 /NDF: 1186301.9/57

Out: 61.460 $\pm$ 0.007 χ^2 /NDF: 2051497.0/61

All: 61.733 $\pm$ 0.005 χ^2 /NDF: 3240724.2/119

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -27.229 ± 44.359 χ^2/NDF : 46.2/34

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 90.157 ± 45.717 χ^2/NDF : 81.6/36

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

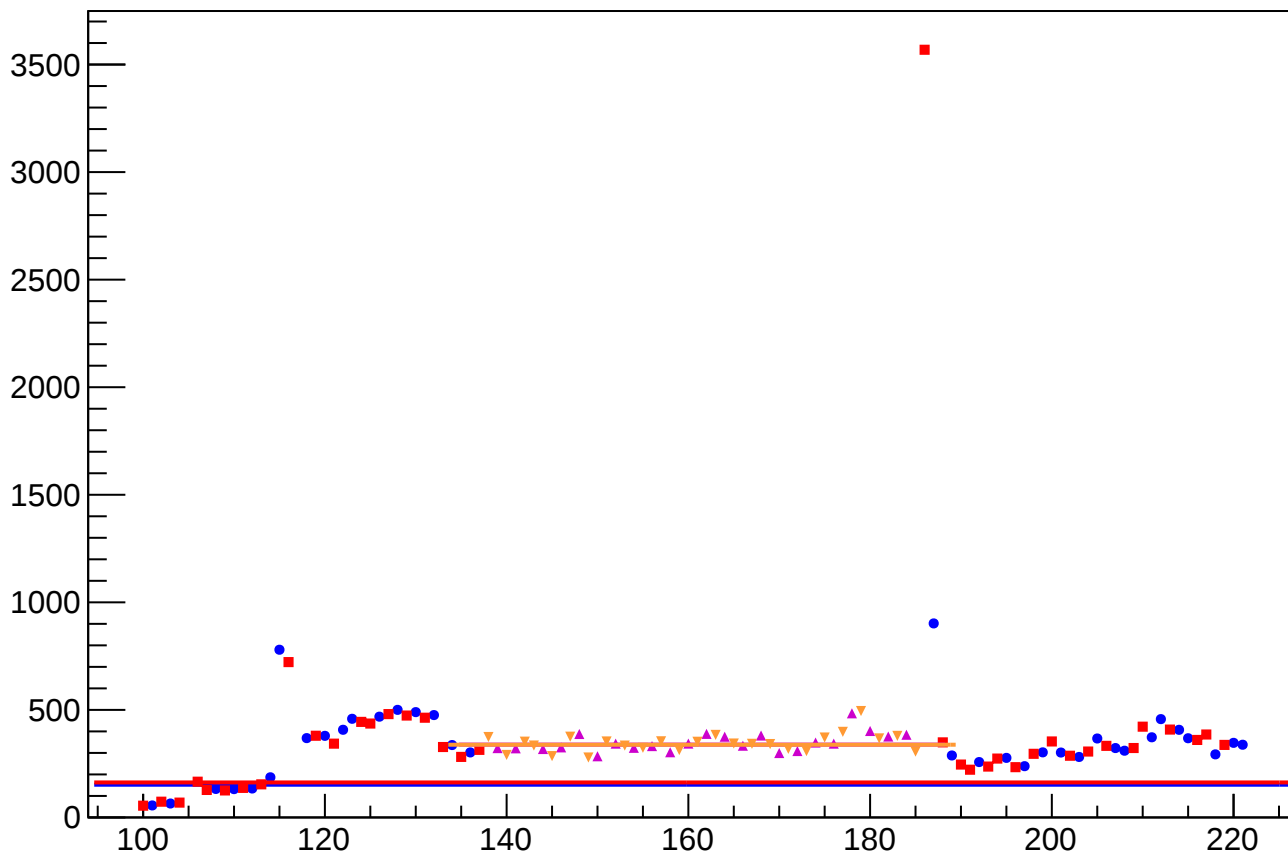
Right: 29.695 ± 31.836 χ^2/NDF : 131.1/71

In: -2.857 ± 38.992 χ^2/NDF : 80.9/57

Out: 17.848 ± 39.637 χ^2/NDF : 111.3/61

All: 7.326 ± 27.797 χ^2/NDF : 192.4/119

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 152.190+/-0.031 χ^2/NDF : 15424192.2/34

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 162.772+/-0.032 χ^2/NDF : 13155676.8/36

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

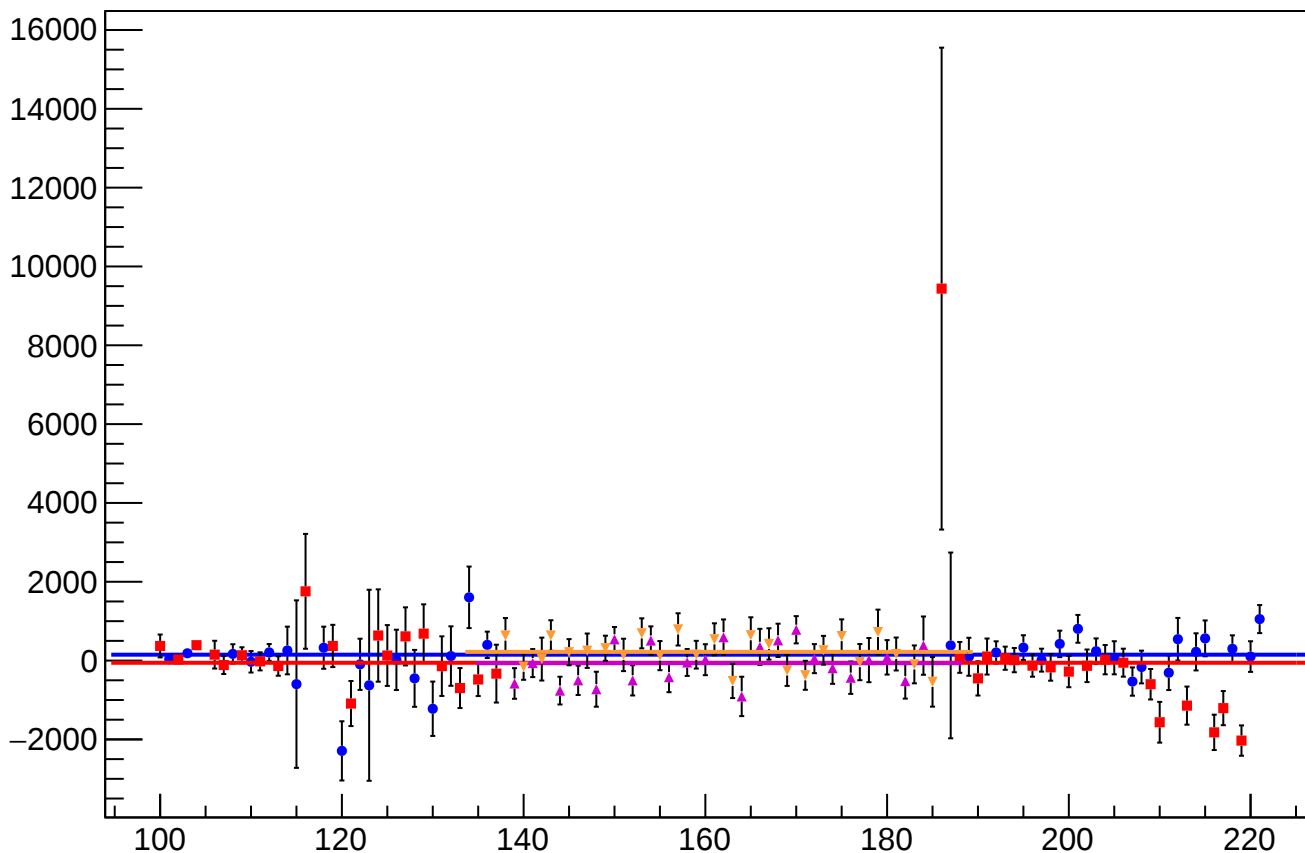
Right: 157.322+/-0.023 χ^2/NDF : 28635062.9/71

In: 194.558+/-0.028 χ^2/NDF : 23887280.0/57

Out: 206.310+/-0.028 χ^2/NDF : 20960083.0/61

All: 200.338+/-0.020 χ^2/NDF : 44936719.1/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 149.809+/-51.568 χ^2/NDF : 39.6/34

Left Out: 221.083+/-81.018 χ^2/NDF :19.7/24

Right Out: -55.581+/-50.687 χ^2/NDF : 96.9/36

Left In: -65.510+/-83.319 χ^2/NDF :34.0/22

Left: 81.798+/-58.085 χ^2/NDF : 59.7/47

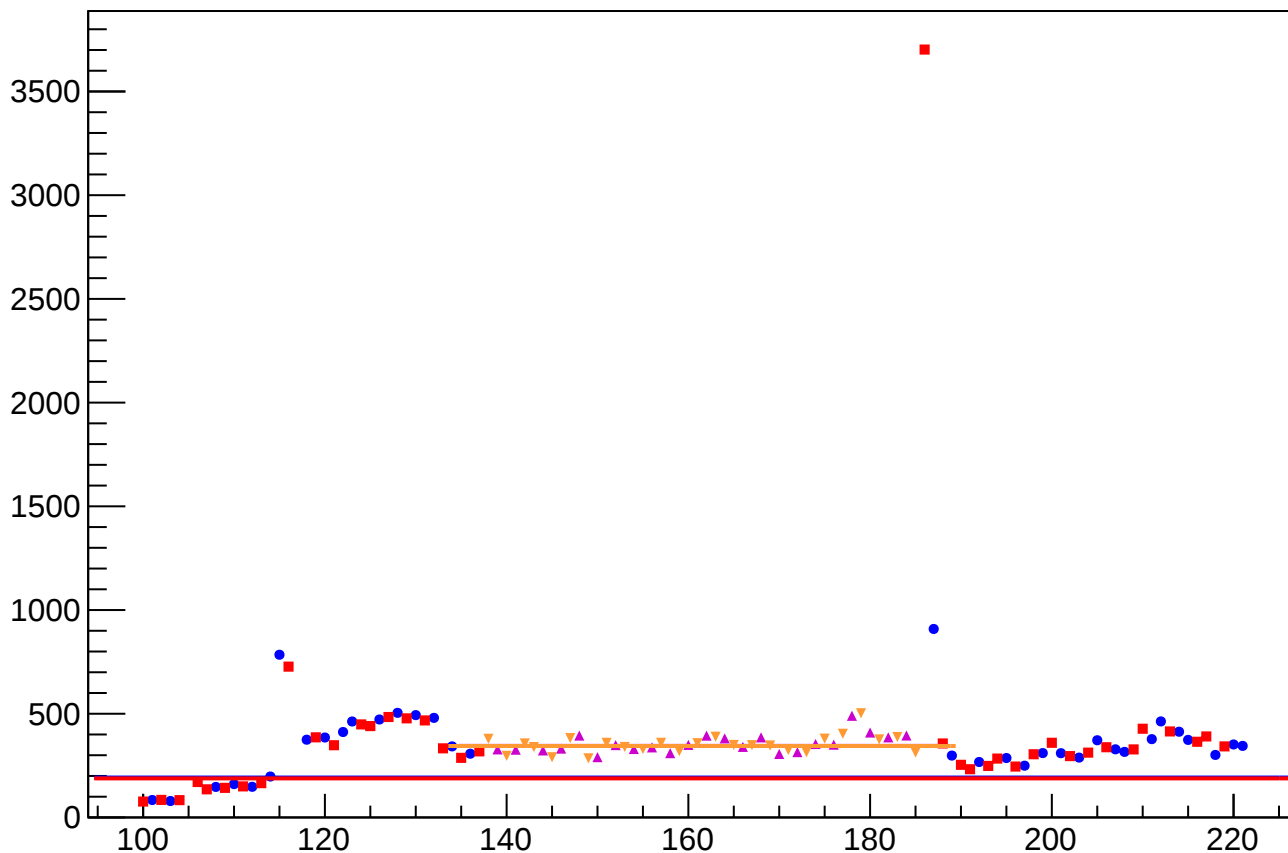
Right: 45.346+/-36.149 χ^2/NDF : 144.6/71

In: 90.173+/-43.849 χ^2/NDF :78.4/57

Out: 22.246+/-42.971 χ^2/NDF :125.0/61

All: 55.523+/-30.691 χ^2/NDF : 204.7/119

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 192.451+/-0.036 χ^2/NDF : 11428232.0/34

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 188.315+/-0.036 χ^2/NDF : 10953564.8/36

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

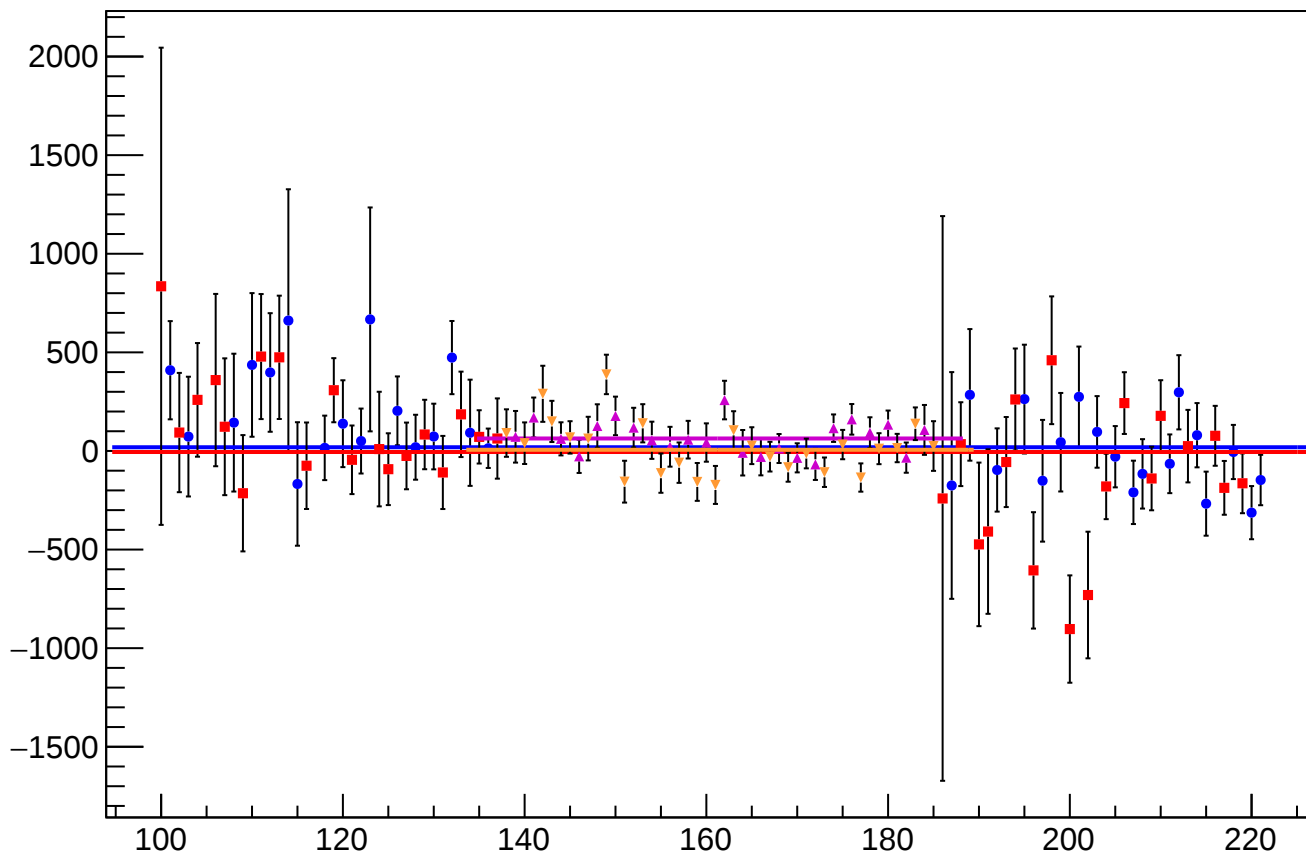
Right: 190.347+/-0.026 χ^2/NDF : 22388341.6/71

In: 234.713+/-0.031 χ^2/NDF : 16705646.3/57

Out: 232.252+/-0.030 χ^2/NDF : 16784087.1/61

All: 233.457+/-0.022 χ^2/NDF : 33492946.3/118

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 18.841 $\pm$ 32.215 χ^2 /NDF: 35.3/34

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: -5.298 $\pm$ 34.752 χ^2 /NDF: 47.4/36

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

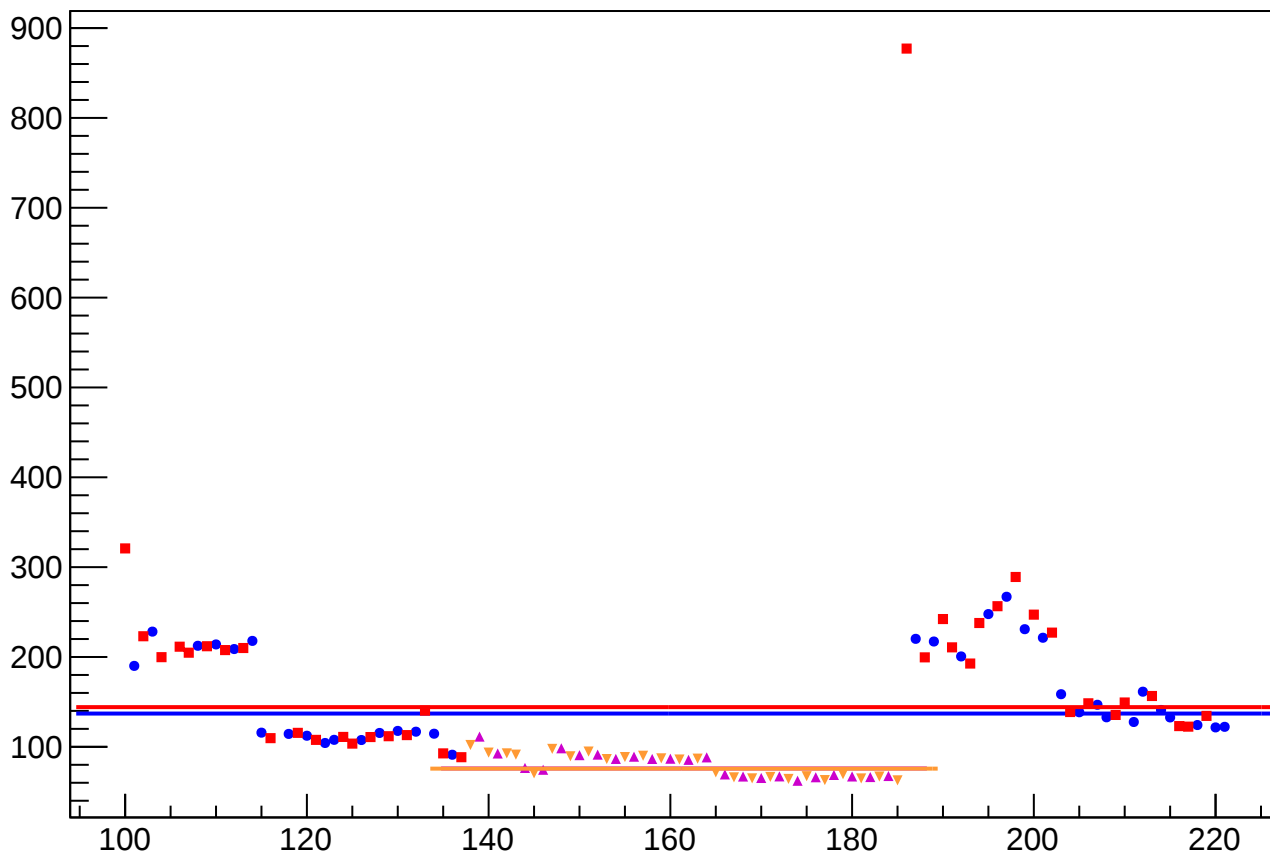
Right: 7.685 $\pm$ 23.626 χ^2 /NDF: 83.0/71

In: 52.307 $\pm$ 16.008 χ^2 /NDF:56.6/57

Out: 3.645 $\pm$ 15.920 χ^2 /NDF:93.5/61

All: 27.842 $\pm$ 11.288 χ^2 /NDF: 154.8/119

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 137.042 $\pm$ 0.023 χ^2 /NDF: 3000073.7/34

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF: 937821.8/24

Right Out: 144.191 $\pm$ 0.025 χ^2 /NDF: 4006391.1/36

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

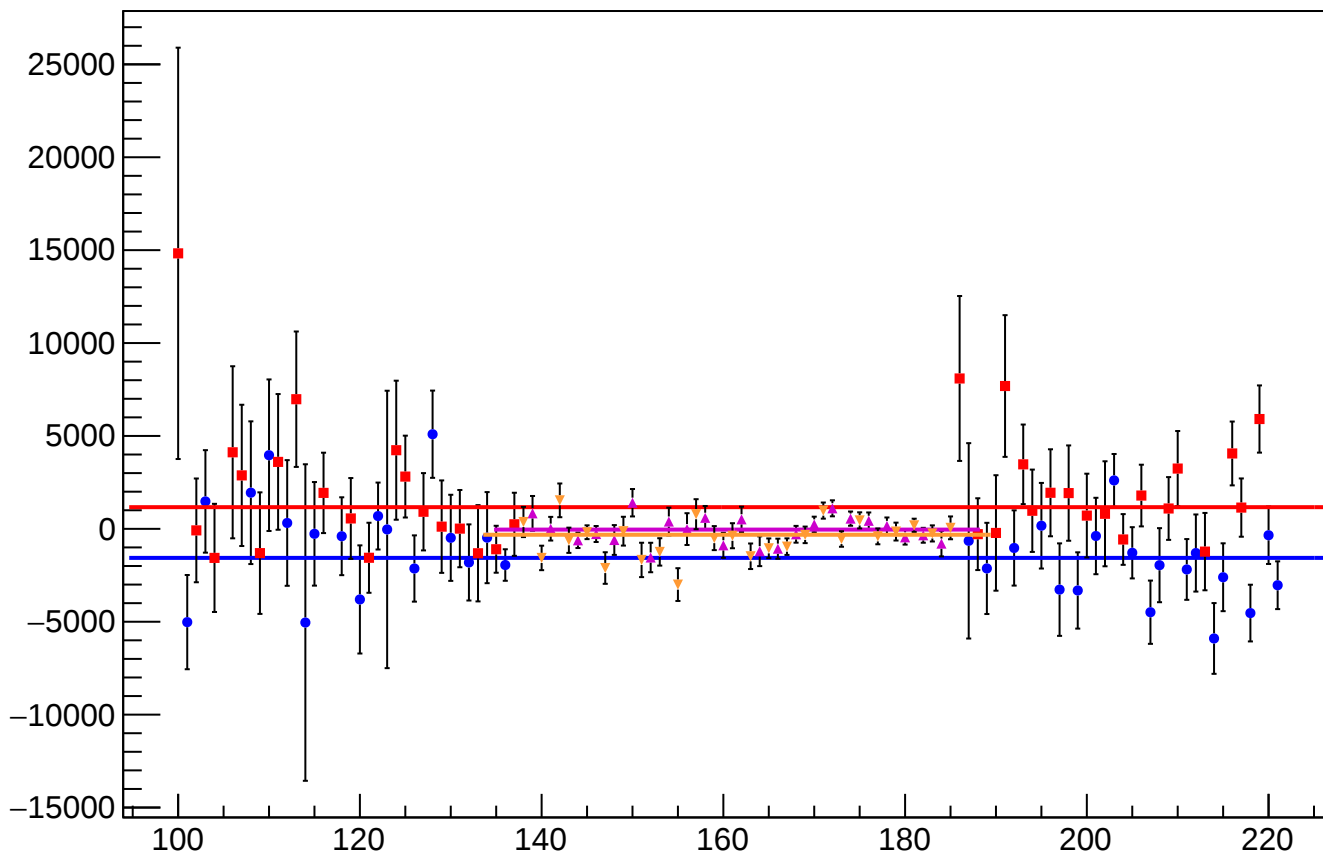
Right: 140.346 $\pm$ 0.017 χ^2 /NDF: 7051994.4/71

In: 91.004 $\pm$ 0.011 χ^2 /NDF: 9255047.6/57

Out: 90.107 $\pm$ 0.011 χ^2 /NDF: 11074816.4/61

All: 90.553 $\pm$ 0.008 χ^2 /NDF: 20333017.9/119

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1563.106 $\pm$ 327.649 χ^2 /NDF: 43.0/34

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 1166.496 $\pm$ 360.600 χ^2 /NDF: 36.6/36

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

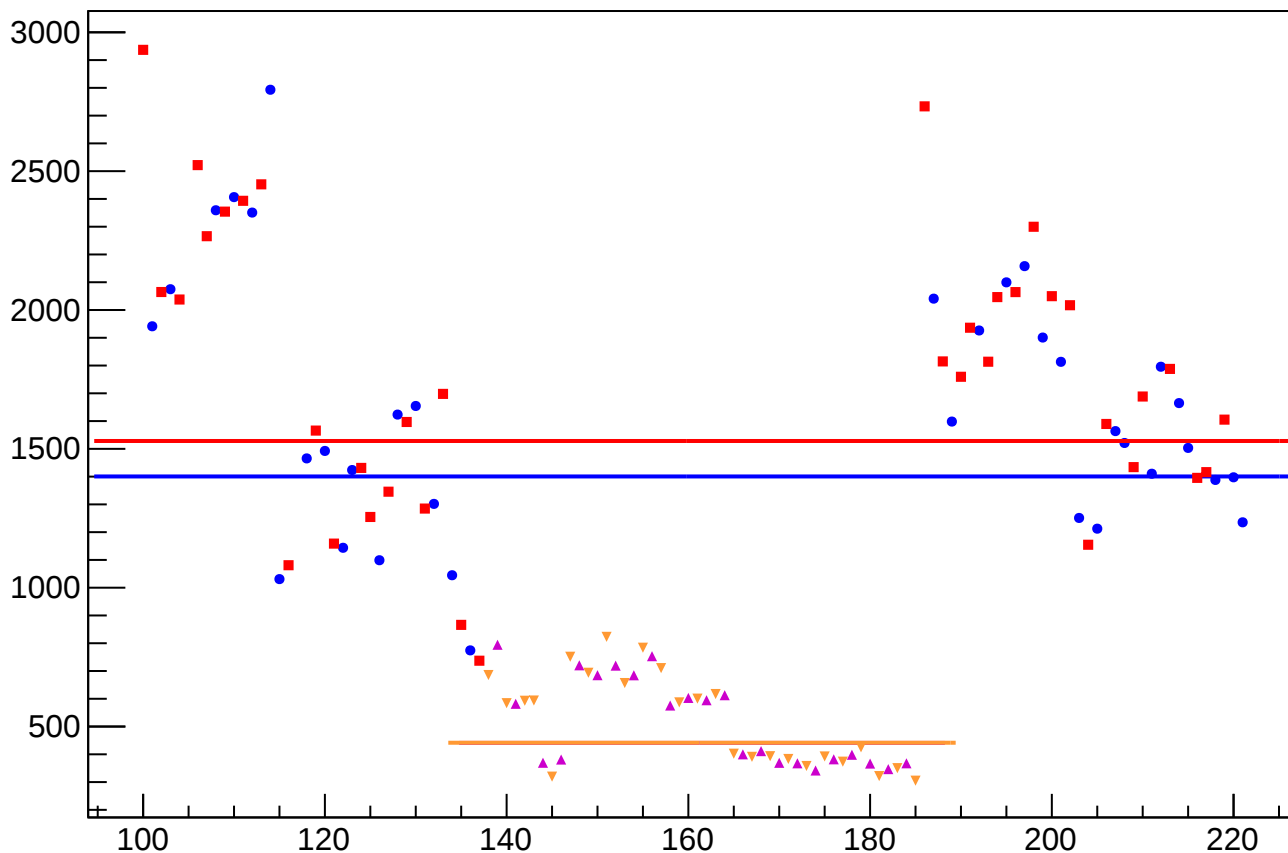
Right: -328.691 $\pm$ 242.497 χ^2 /NDF: 111.0/71

In: -195.344 $\pm$ 104.495 χ^2 /NDF:97.1/57

Out: -195.831 $\pm$ 103.471 χ^2 /NDF:102.2/61

All: -195.590 $\pm$ 73.525 χ^2 /NDF: 199.3/119

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1400.598 $\pm$ 0.232 χ^2 /NDF: 2966140.4/34

Left Out: 441.685 $\pm$ 0.076 χ^2 /NDF:3169140.9/24

Right Out: 1528.315 $\pm$ 0.255 χ^2 /NDF: 2986445.0/36

Left In: 441.009 $\pm$ 0.078 χ^2 /NDF:2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2 /NDF: 5766197.3/47

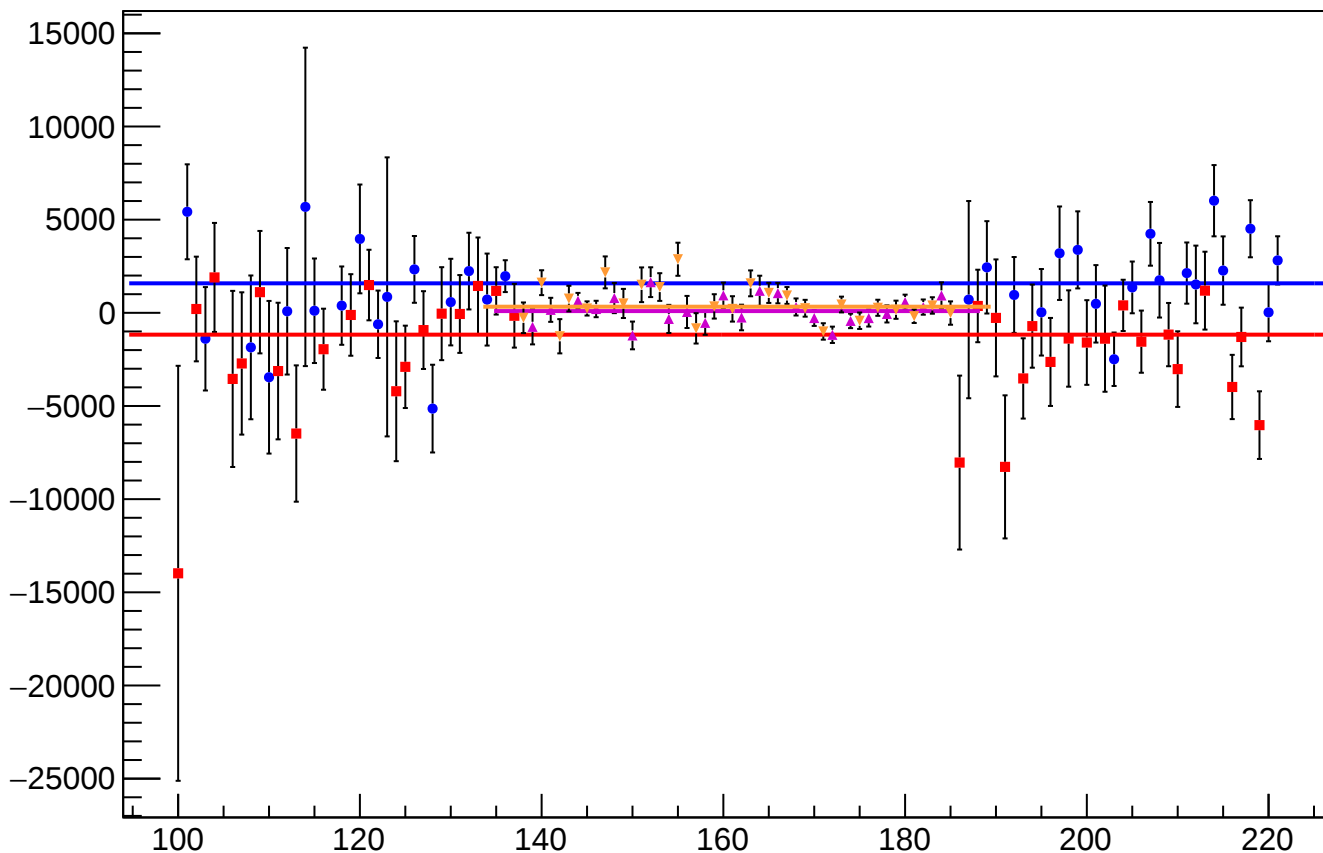
Right: 1458.356 $\pm$ 0.171 χ^2 /NDF: 6090014.3/71

In: 538.611 $\pm$ 0.074 χ^2 /NDF:20973041.1/57

Out: 531.153 $\pm$ 0.073 χ^2 /NDF:22821429.0/61

All: 534.845 $\pm$ 0.052 χ^2 /NDF: 43799613.3/122

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1583.103 $\pm$ 329.570 χ^2 /NDF: 41.7/34

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -1171.440 $\pm$ 362.713 χ^2 /NDF: 36.1/36

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

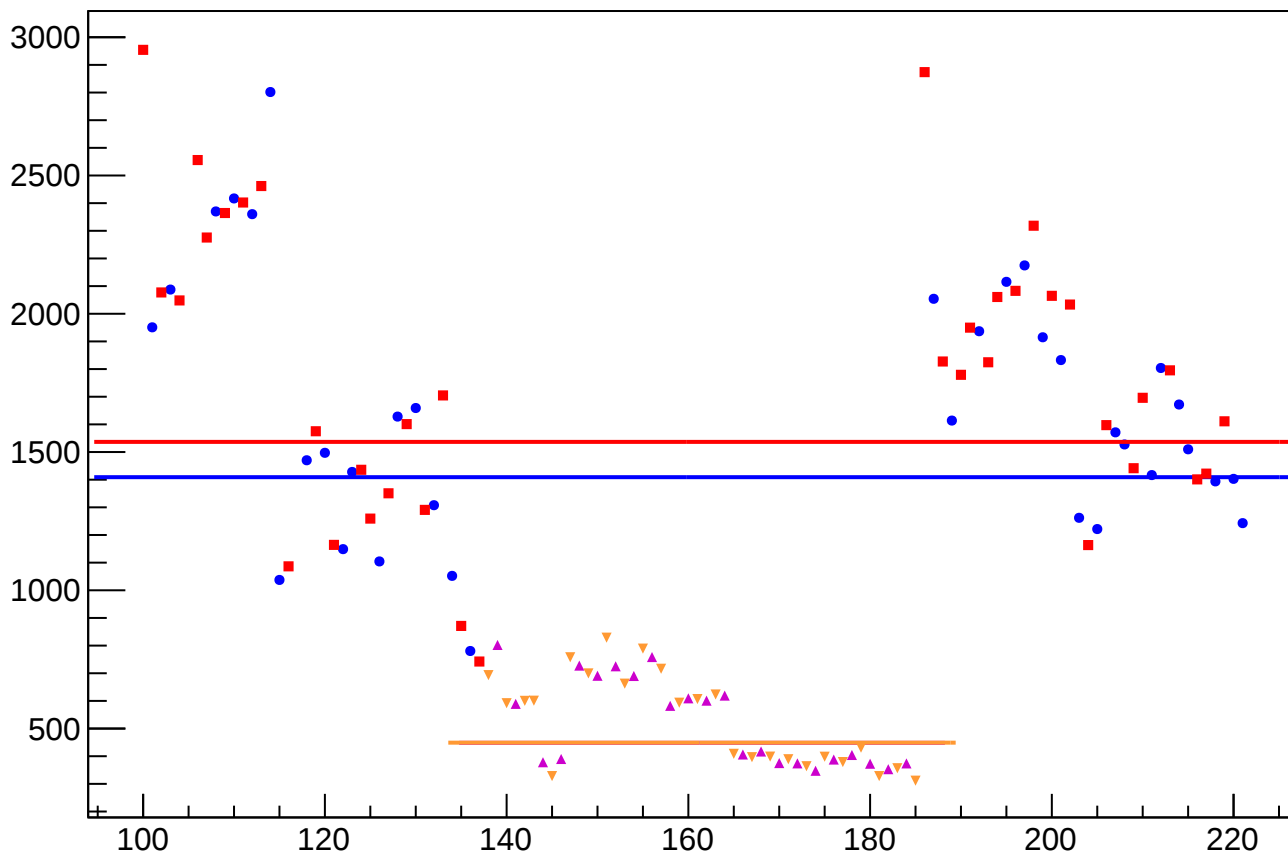
Right: 337.401 $\pm$ 243.919 χ^2 /NDF: 109.4/71

In: 247.452 $\pm$ 106.010 χ^2 /NDF: 93.4/57

Out: 202.953 $\pm$ 104.975 χ^2 /NDF: 99.5/61

All: 224.985 $\pm$ 74.592 χ^2 /NDF: 192.9/119

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1409.061 $\pm$ 0.233 χ^2 /NDF: 2954798.2/34

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF:3090476.2/24

Right Out: 1536.690 $\pm$ 0.256 χ^2 /NDF: 3006118.4/36

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

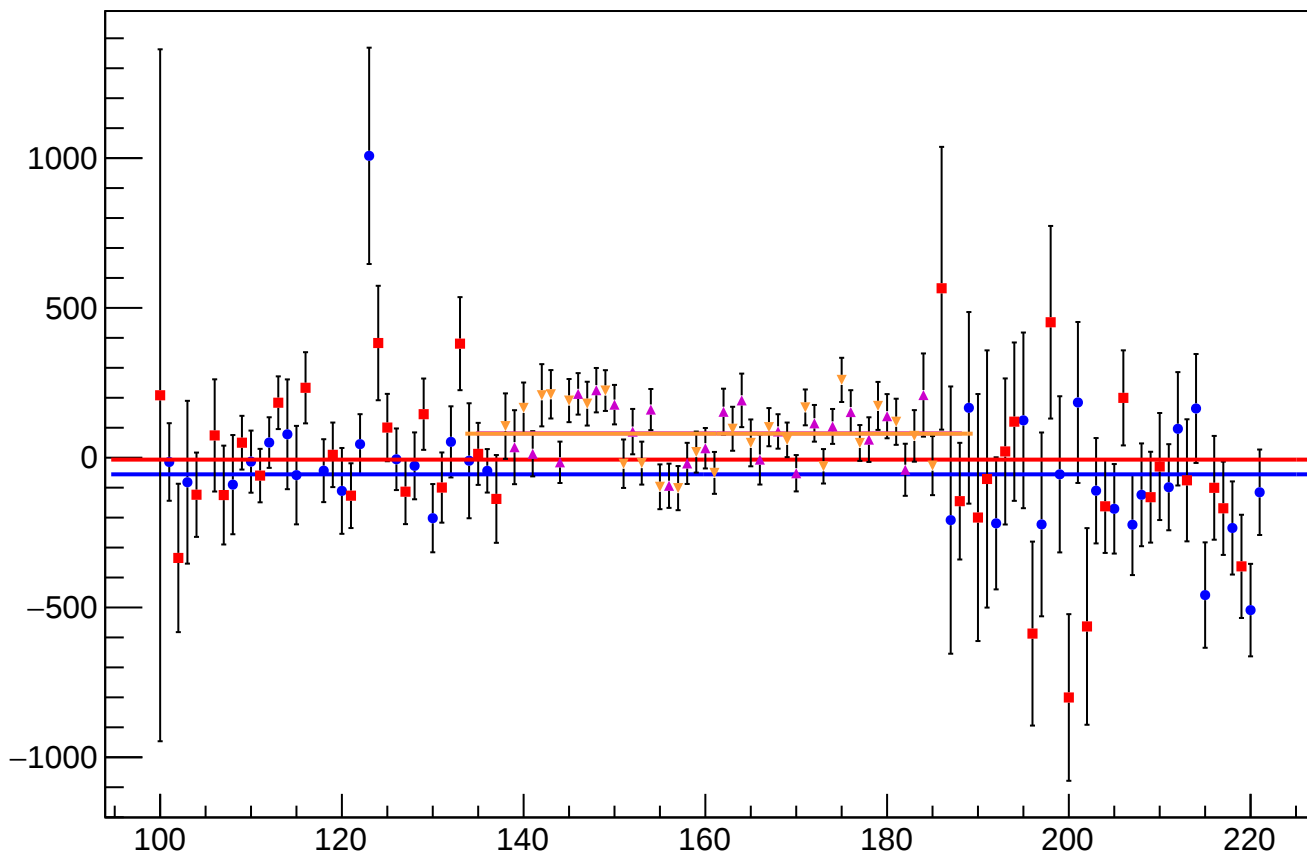
Right: 1466.780 $\pm$ 0.172 χ^2 /NDF: 6096558.8/71

In: 547.712 $\pm$ 0.075 χ^2 /NDF:20730088.6/57

Out: 540.122 $\pm$ 0.074 χ^2 /NDF:22574812.0/61

All: 543.879 $\pm$ 0.053 χ^2 /NDF: 43310077.2/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -55.552 ± 24.247 χ^2/NDF : 37.2/34

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: -6.436 ± 24.434 χ^2/NDF : 57.5/36

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

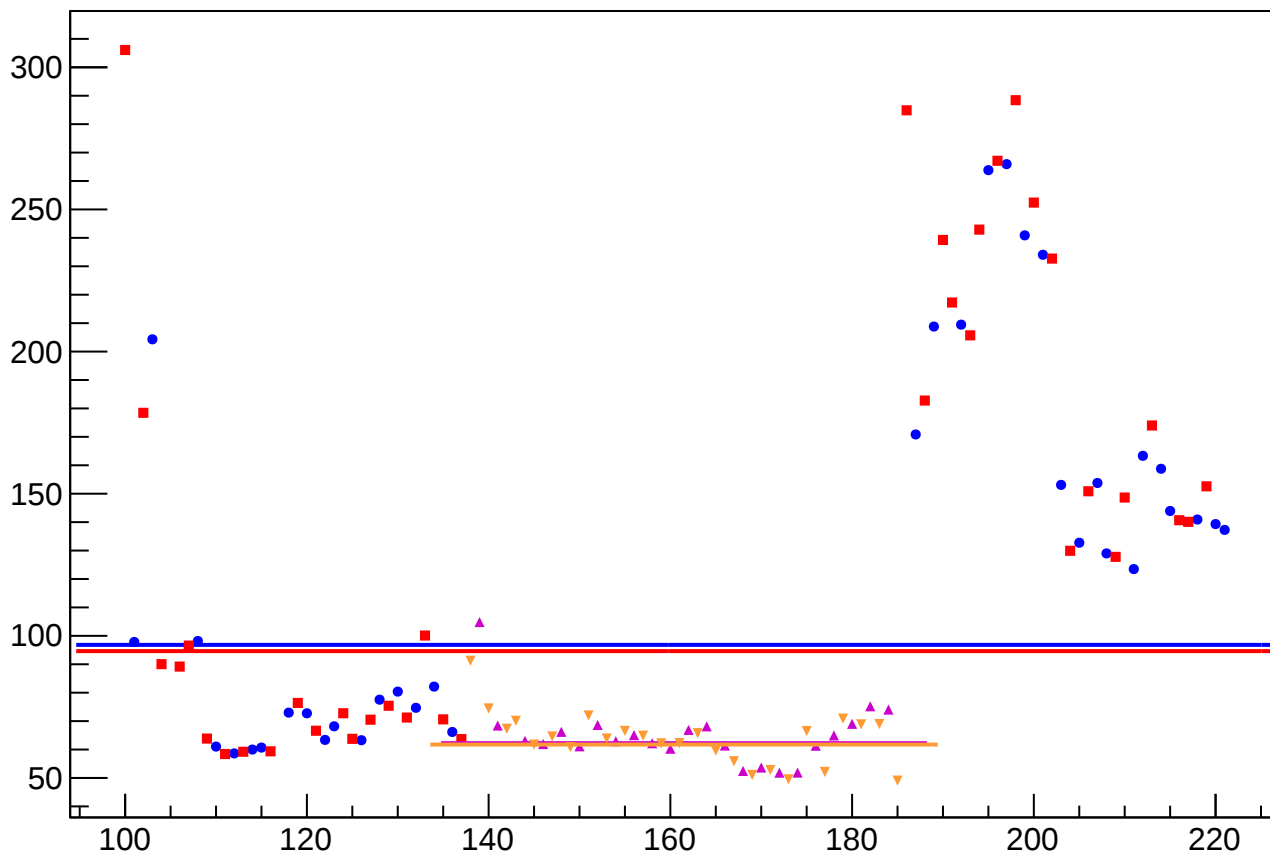
Right: -31.183 ± 17.211 χ^2/NDF : 96.8/71

In: 42.934 ± 12.821 χ^2/NDF : 95.4/57

Out: 57.402 ± 12.528 χ^2/NDF : 115.3/61

All: 50.335 ± 8.961 χ^2/NDF : 211.4/119

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 96.820 $\pm$ 0.017 χ^2 /NDF: 7282239.1/34

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 94.629 $\pm$ 0.017 χ^2 /NDF: 8182273.6/36

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

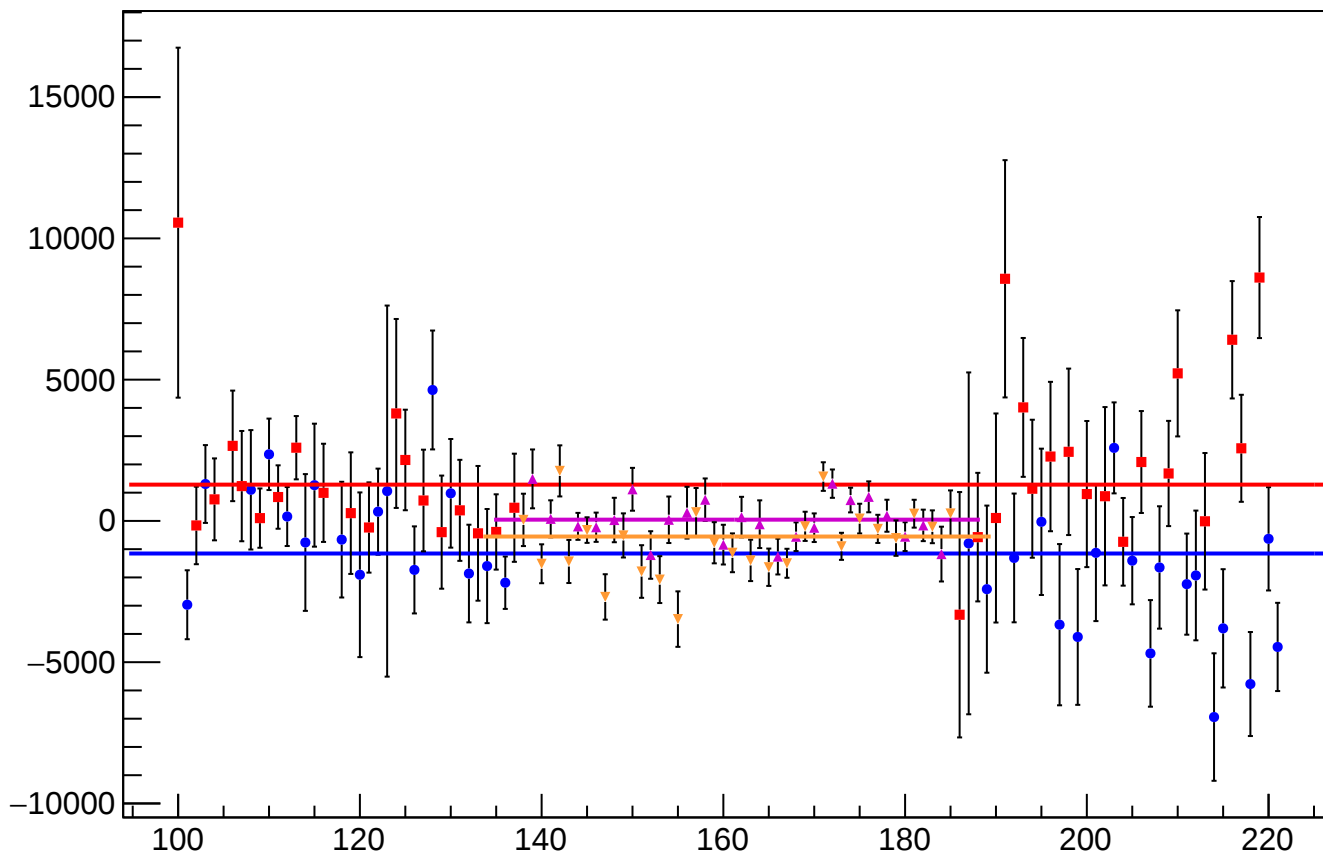
Right: 95.733 $\pm$ 0.012 χ^2 /NDF: 15472617.9/71

In: 71.915 $\pm$ 0.009 χ^2 /NDF: 10802118.0/57

Out: 70.402 $\pm$ 0.009 χ^2 /NDF: 11495359.2/61

All: 71.141 $\pm$ 0.006 χ^2 /NDF: 22311736.3/119

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1153.230 ± 301.530 $\chi^2/\text{NDF}: 59.8/34$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1284.621 ± 306.976 $\chi^2/\text{NDF}: 42.1/36$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

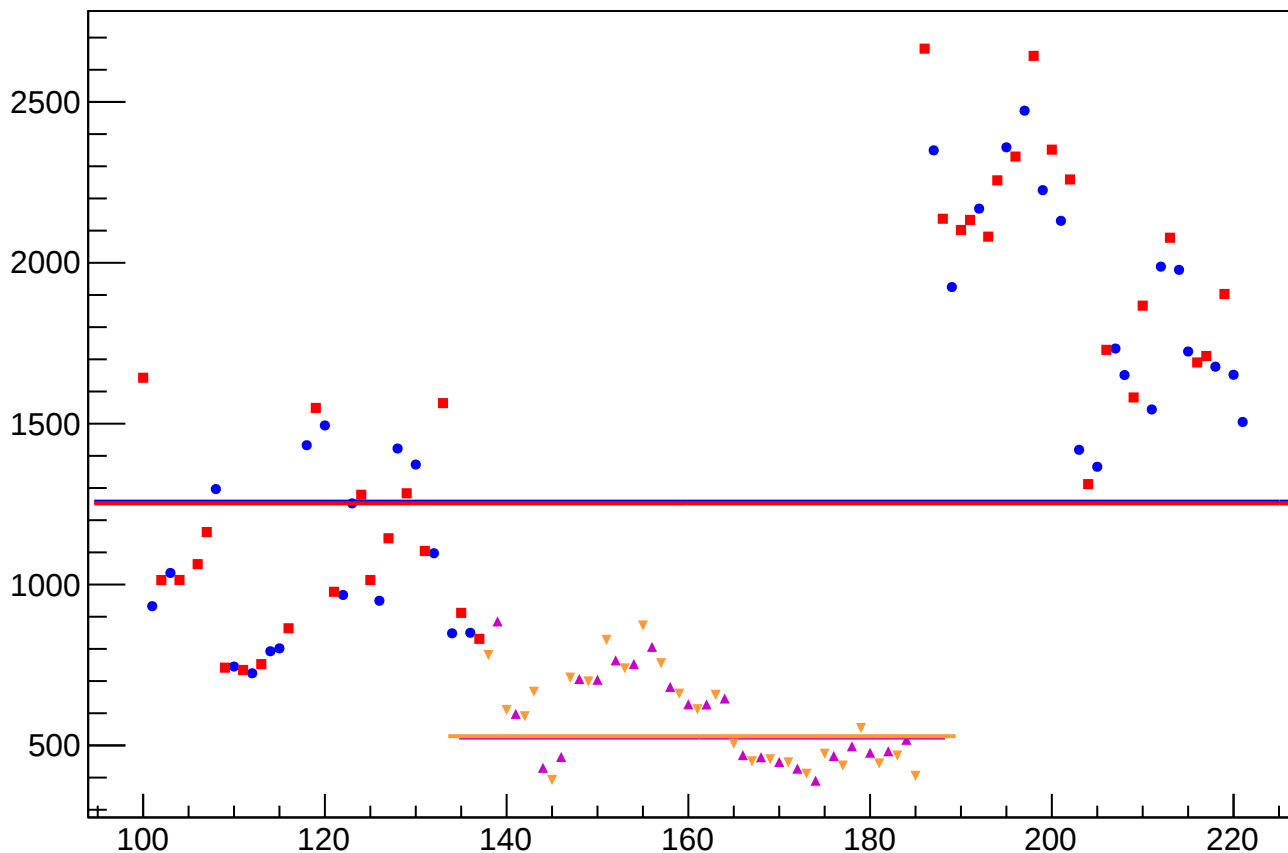
Right: 43.880 ± 215.113 $\chi^2/\text{NDF}: 134.1/71$

In: -140.967 ± 118.675 $\chi^2/\text{NDF}: 102.7/57$

Out: -284.092 ± 117.338 $\chi^2/\text{NDF}: 138.0/61$

All: -213.340 ± 83.439 $\chi^2/\text{NDF}: 241.5/119$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1257.708 $\pm$ 0.213 χ^2 /NDF: 4716213.2/34

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1252.495 $\pm$ 0.217 χ^2 /NDF: 5555542.5/36

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

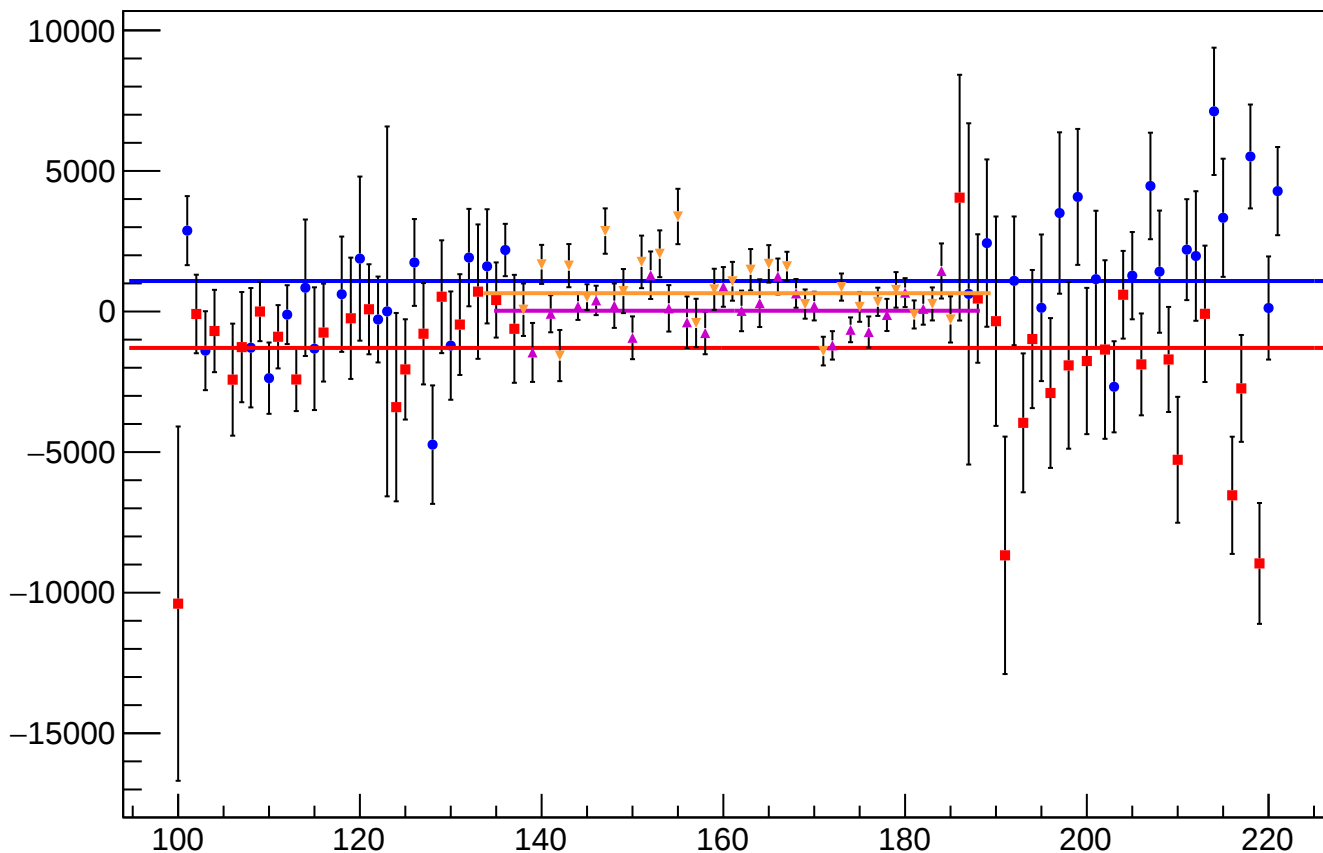
Right: 1255.148 $\pm$ 0.152 χ^2 /NDF: 10272049.1/71

In: 637.881 $\pm$ 0.084 χ^2 /NDF:16432571.9/57

Out: 634.483 $\pm$ 0.083 χ^2 /NDF:17032456.5/61

All: 636.162 $\pm$ 0.059 χ^2 /NDF: 33465857.5/121

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 1085.342 $\pm$ 302.912 χ^2 /NDF: 58.5/34

Left Out: 651.560 $\pm$ 127.961 χ^2 /NDF:61.1/24

Right Out: -1294.962 $\pm$ 308.487 χ^2 /NDF: 42.6/36

Left In: 27.483 $\pm$ 130.127 χ^2 /NDF:28.5/22

Left: 344.758 $\pm$ 91.238 χ^2 /NDF: 101.2/47

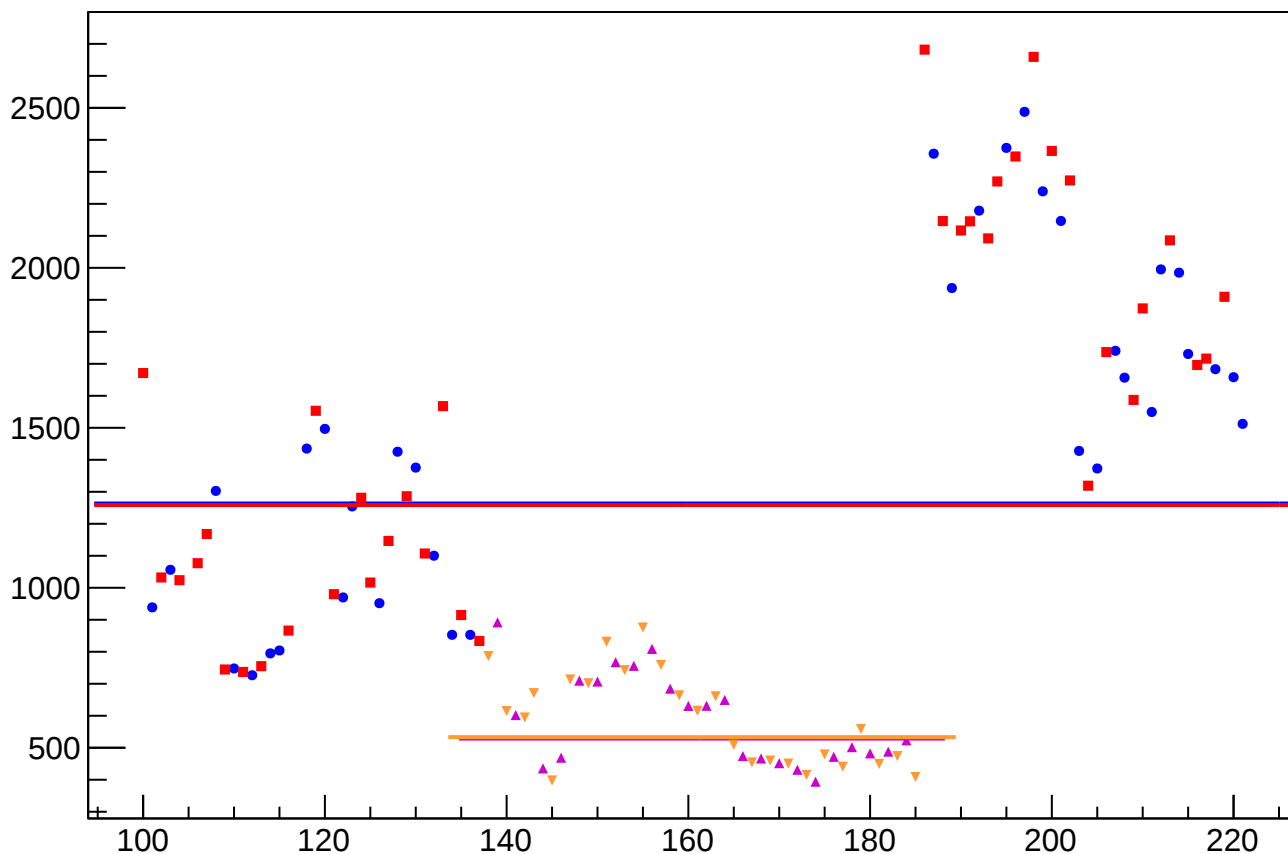
Right: -83.106 $\pm$ 216.135 χ^2 /NDF: 131.5/71

In: 192.291 $\pm$ 119.561 χ^2 /NDF:97.3/57

Out: 365.807 $\pm$ 118.196 χ^2 /NDF:137.7/61

All: 280.045 $\pm$ 84.056 χ^2 /NDF: 236.0/119

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1263.421 $\pm$ 0.214 χ^2 /NDF: 4719491.2/34

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1258.429 $\pm$ 0.218 χ^2 /NDF: 5560514.2/36

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF: 1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

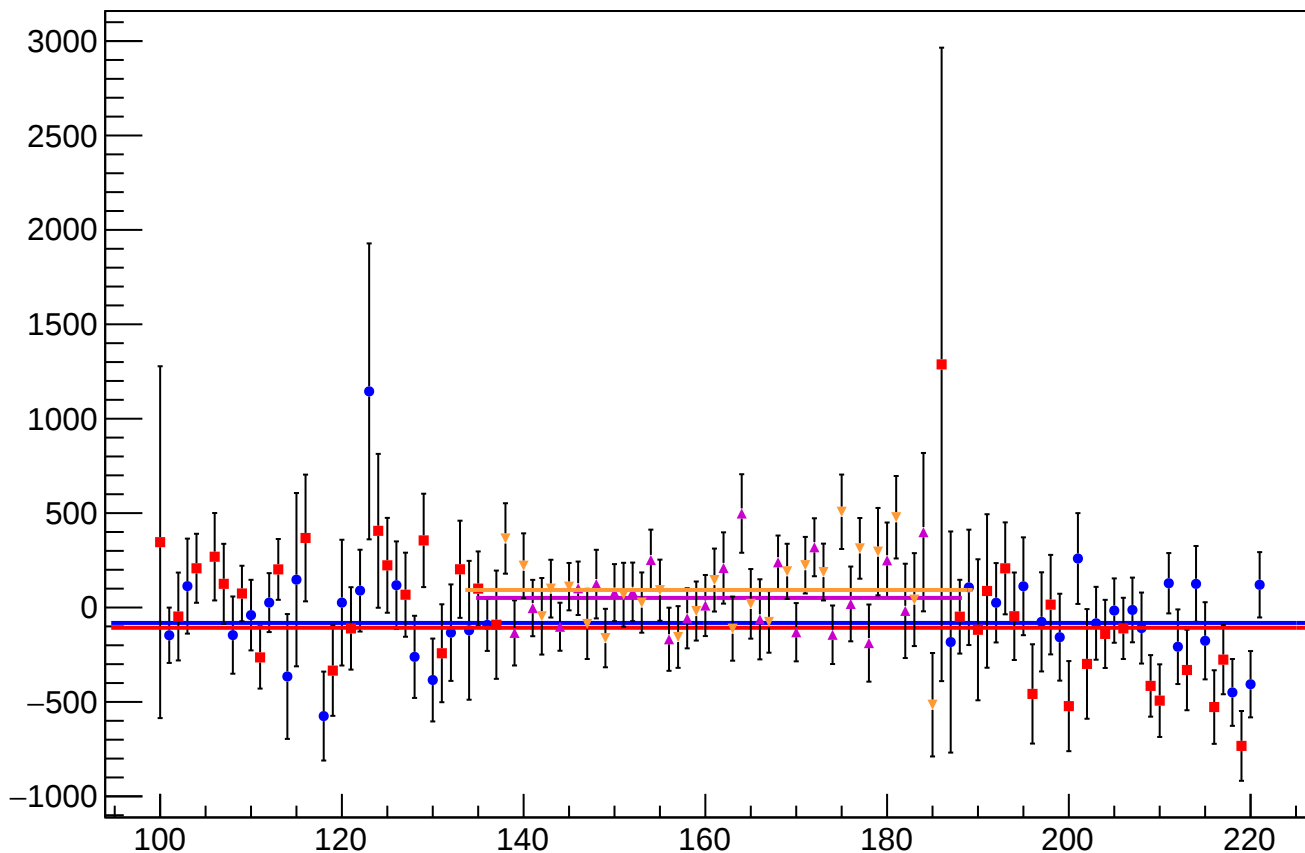
Right: 1260.971 $\pm$ 0.153 χ^2 /NDF: 10280272.1/71

In: 643.160 $\pm$ 0.085 χ^2 /NDF: 16341427.5/57

Out: 639.546 $\pm$ 0.084 χ^2 /NDF: 16946654.1/61

All: 641.332 $\pm$ 0.059 χ^2 /NDF: 33289005.8/118

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -81.561 ± 35.522 χ^2/NDF : 29.6/34

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -107.292 ± 36.275 χ^2/NDF : 60.3/36

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

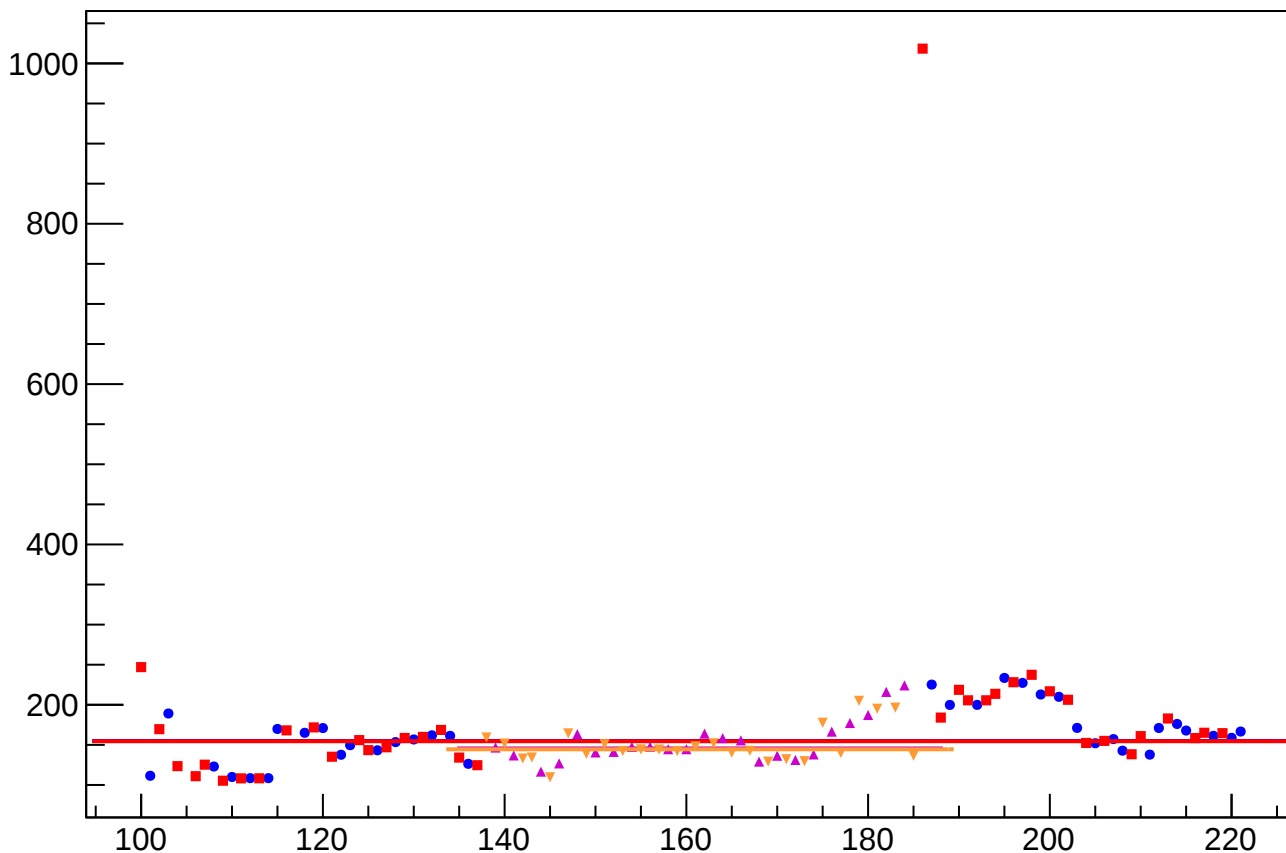
Right: -94.156 ± 25.380 χ^2/NDF : 90.1/71

In: -14.880 ± 25.032 χ^2/NDF : 60.0/57

Out: -0.829 ± 24.828 χ^2/NDF : 105.9/61

All: -7.797 ± 17.628 χ^2/NDF : 166.1/119

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.857 $\pm$ 0.025 χ^2 /NDF: 1544426.6/34

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.578 $\pm$ 0.026 χ^2 /NDF: 2337469.8/36

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

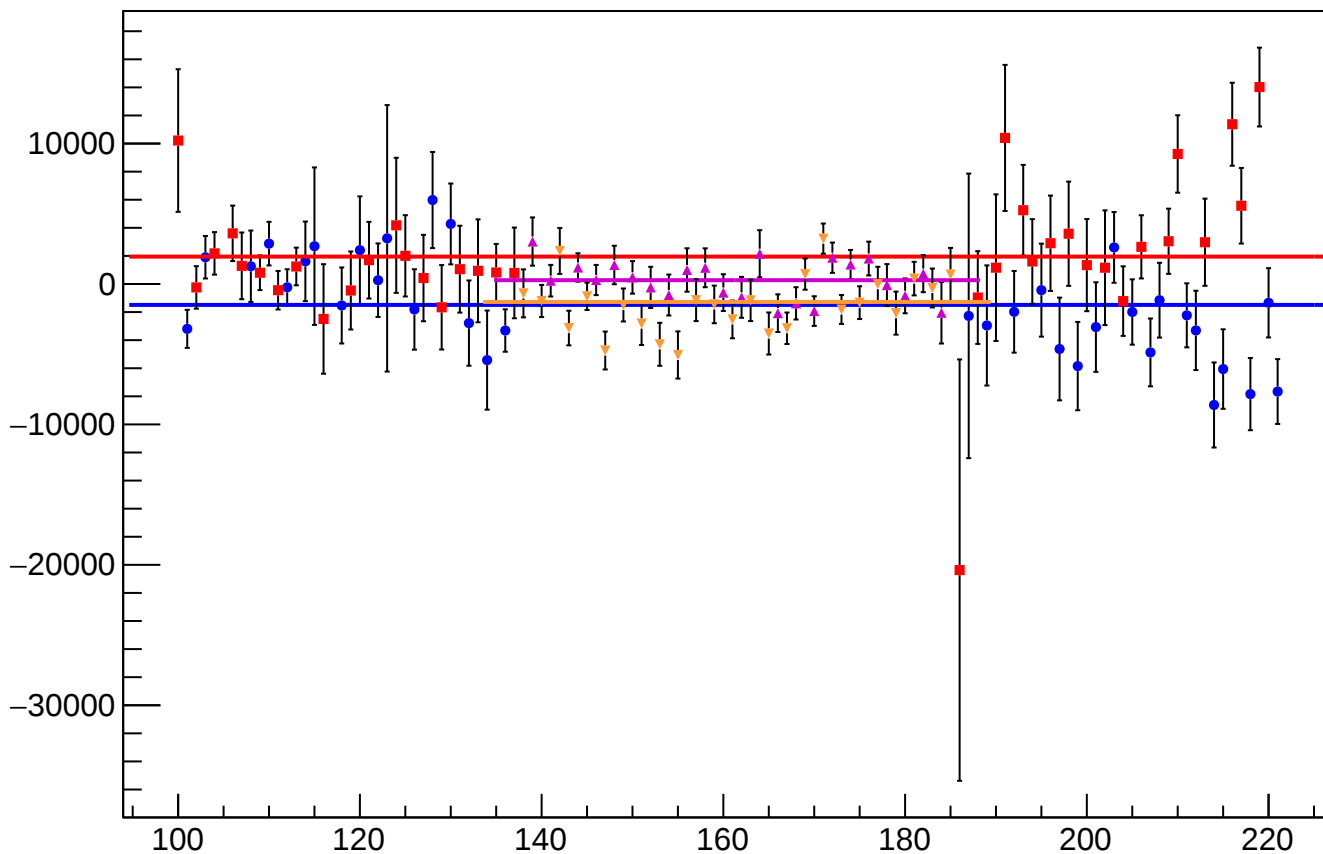
Right: 154.721 $\pm$ 0.018 χ^2 /NDF: 3881957.0/71

In: 150.164 $\pm$ 0.018 χ^2 /NDF: 2257306.1/57

Out: 149.208 $\pm$ 0.018 χ^2 /NDF: 3090416.6/61

All: 149.682 $\pm$ 0.012 χ^2 /NDF: 5349194.4/119

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1489.164 ± 412.138 $\chi^2/\text{NDF}: 61.5/34$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1950.243 ± 402.880 $\chi^2/\text{NDF}: 61.0/36$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

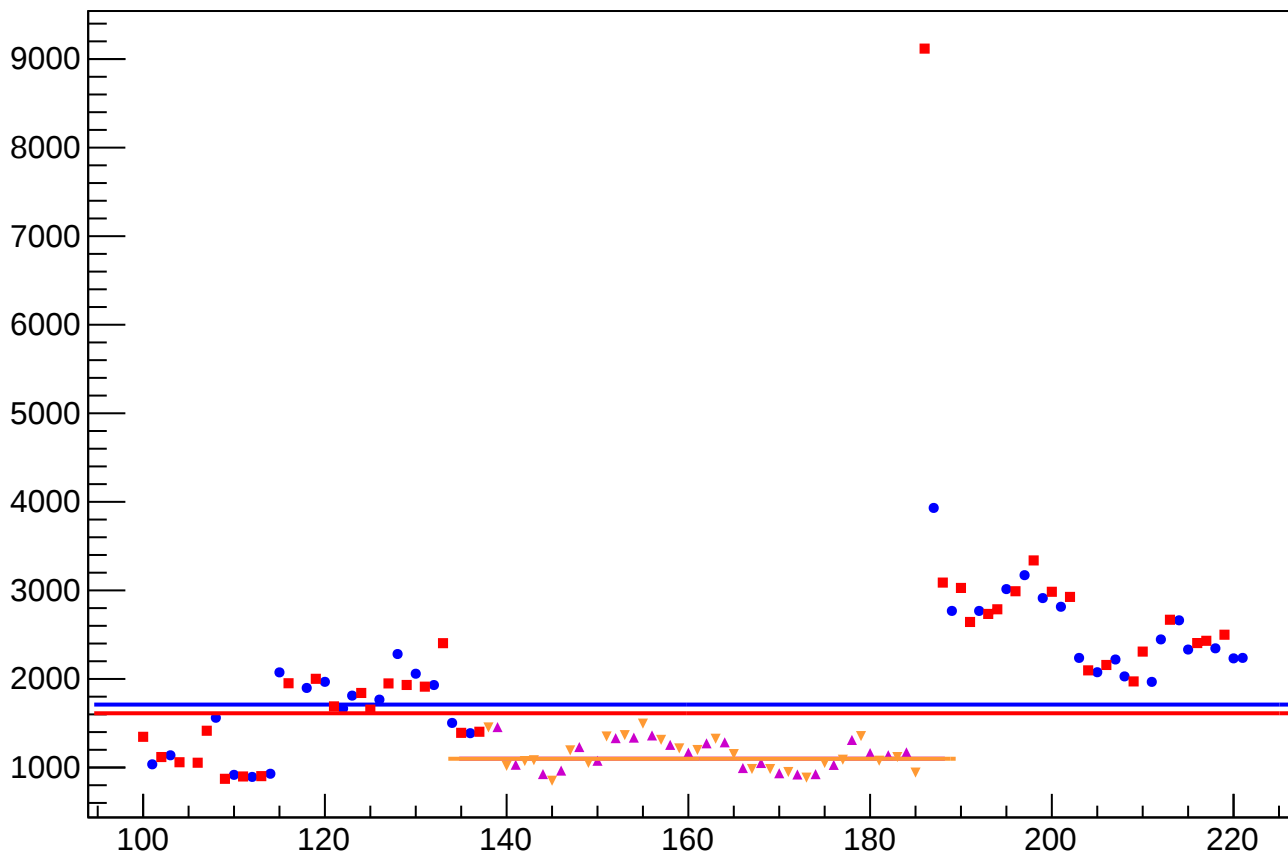
Right: 269.604 ± 288.096 $\chi^2/\text{NDF}: 158.1/71$

In: -248.015 ± 223.638 $\chi^2/\text{NDF}: 98.7/57$

Out: -333.368 ± 218.042 $\chi^2/\text{NDF}: 162.3/61$

All: -291.773 ± 156.120 $\chi^2/\text{NDF}: 261.1/119$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1710.659 $\pm$ 0.291 χ^2 /NDF: 5163258.1/34

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1612.527 $\pm$ 0.285 χ^2 /NDF: 6848334.4/36

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

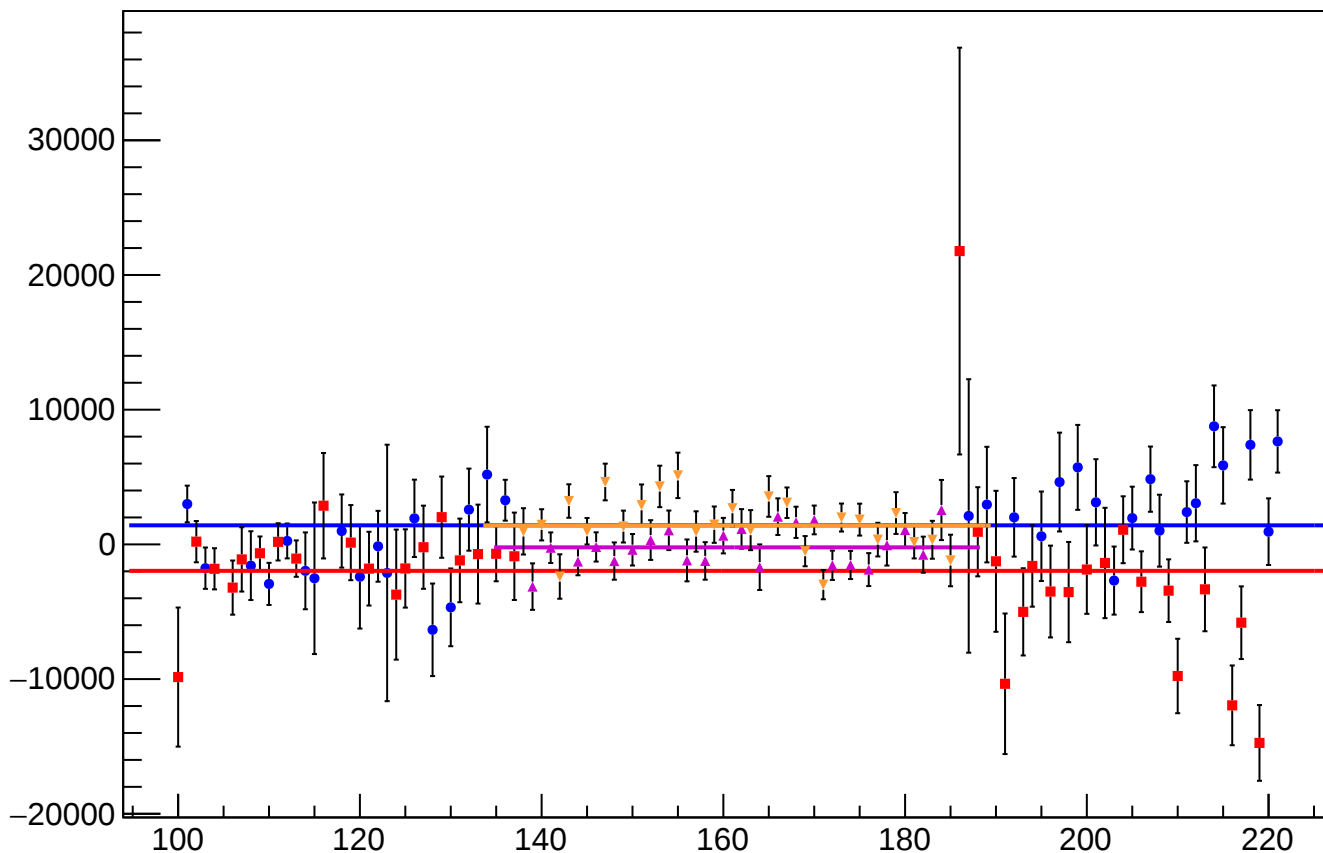
Right: 1660.478 $\pm$ 0.204 χ^2 /NDF: 12069573.7/71

In: 1279.514 $\pm$ 0.158 χ^2 /NDF: 8945295.1/57

Out: 1249.351 $\pm$ 0.154 χ^2 /NDF: 9971123.2/61

All: 1264.050 $\pm$ 0.110 χ^2 /NDF: 18935071.0/131

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1414.699+/-414.218 χ^2/NDF : 60.7/34

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1963.477+/-405.352 χ^2/NDF : 65.2/36

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

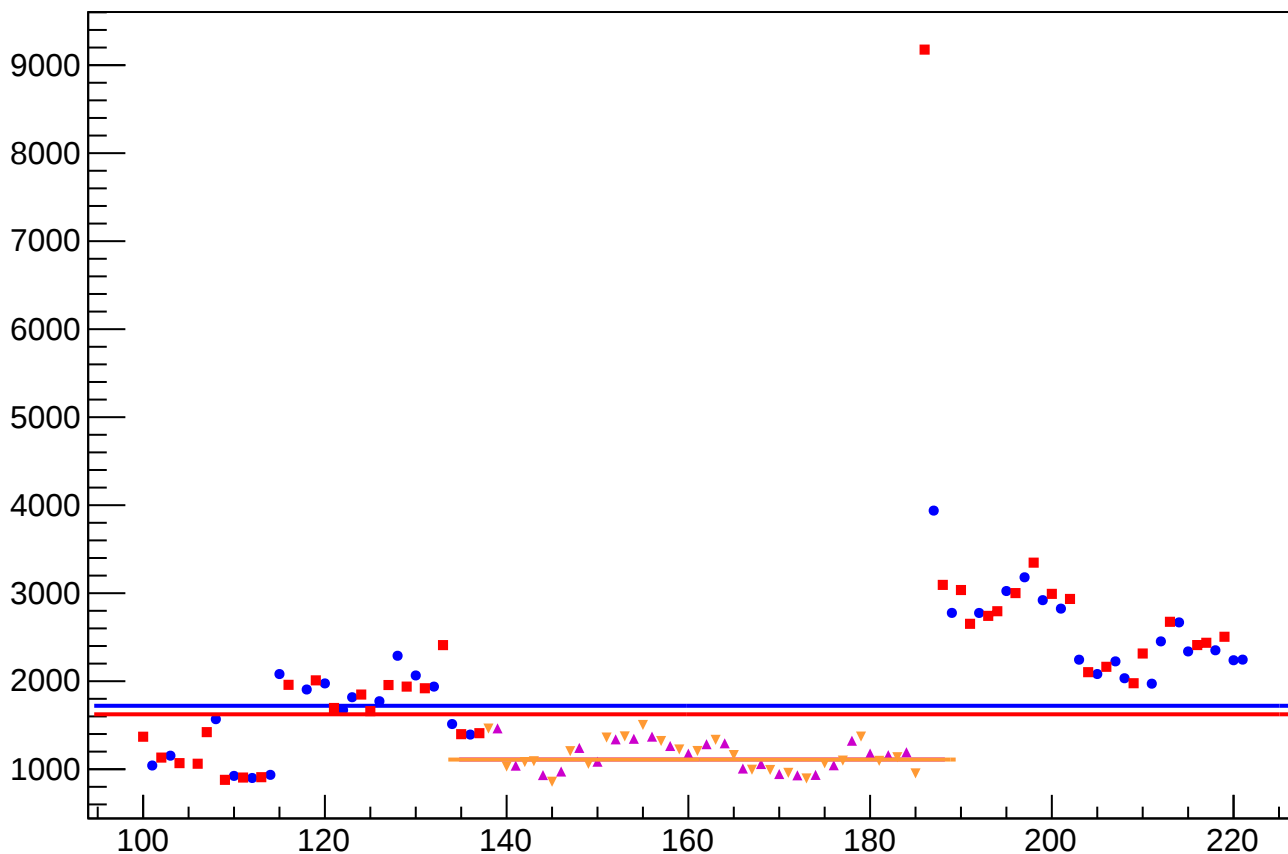
Right: -310.931+/-289.711 χ^2/NDF : 159.8/71

In: 264.965+/-225.514 χ^2/NDF : 96.6/57

Out: 410.263+/-219.922 χ^2/NDF : 166.0/61

All: 339.437+/-157.448 χ^2/NDF : 262.9/119

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1720.756 $\pm$ 0.293 χ^2 /NDF: 5106184.8/34

Left Out: 1109.761 $\pm$ 0.185 χ^2 /NDF: 812174.9/24

Right Out: 1623.983 $\pm$ 0.287 χ^2 /NDF: 6777257.7/36

Left In: 1110.542 $\pm$ 0.190 χ^2 /NDF: 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2 /NDF: 1482112.5/47

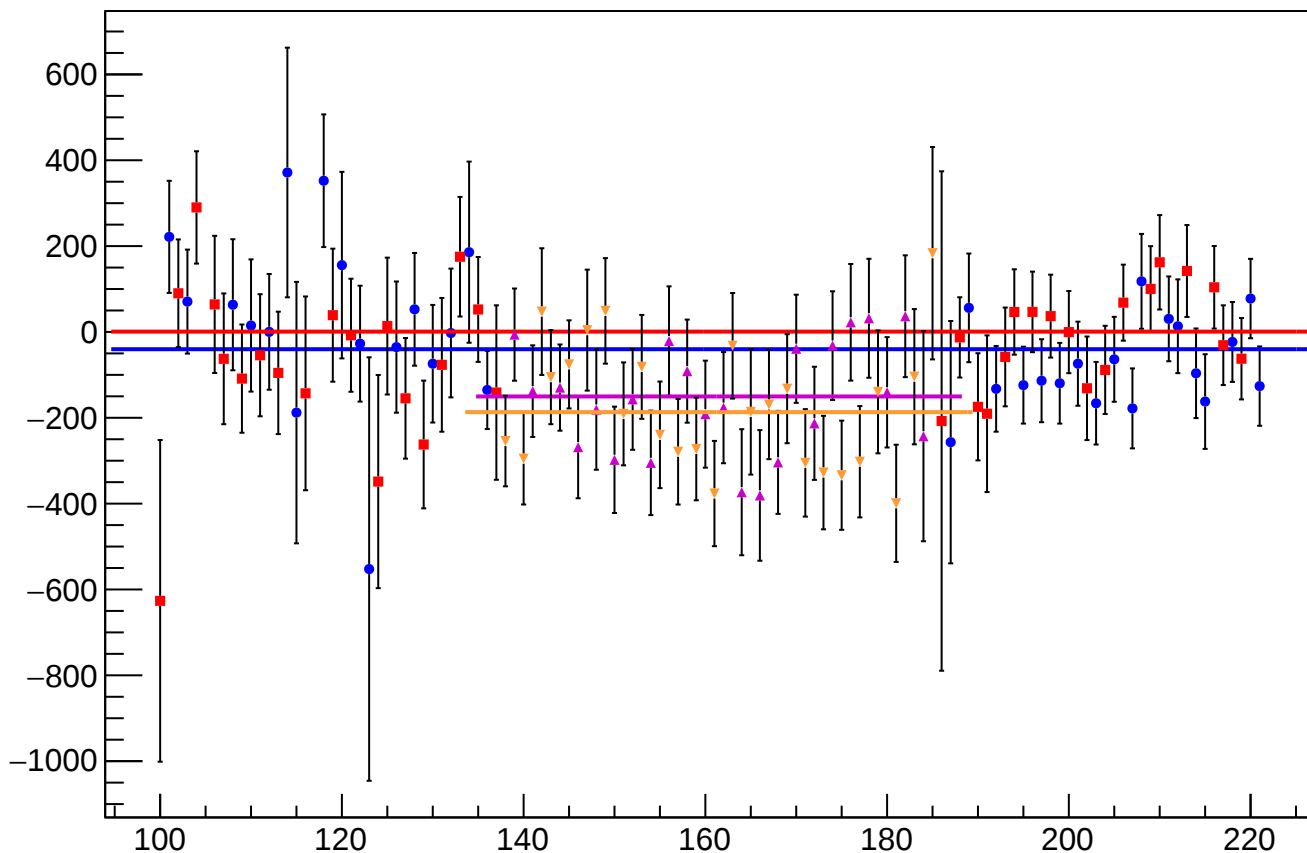
Right: 1671.323 $\pm$ 0.205 χ^2 /NDF: 11939204.4/71

In: 1291.414 $\pm$ 0.159 χ^2 /NDF: 8830025.7/57

Out: 1261.126 $\pm$ 0.156 χ^2 /NDF: 9860616.7/61

All: 1275.890 $\pm$ 0.111 χ^2 /NDF: 18709133.4/1

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -40.229 ± 20.022 χ^2/NDF : 34.1/34

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 0.756 ± 20.237 χ^2/NDF : 32.4/36

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

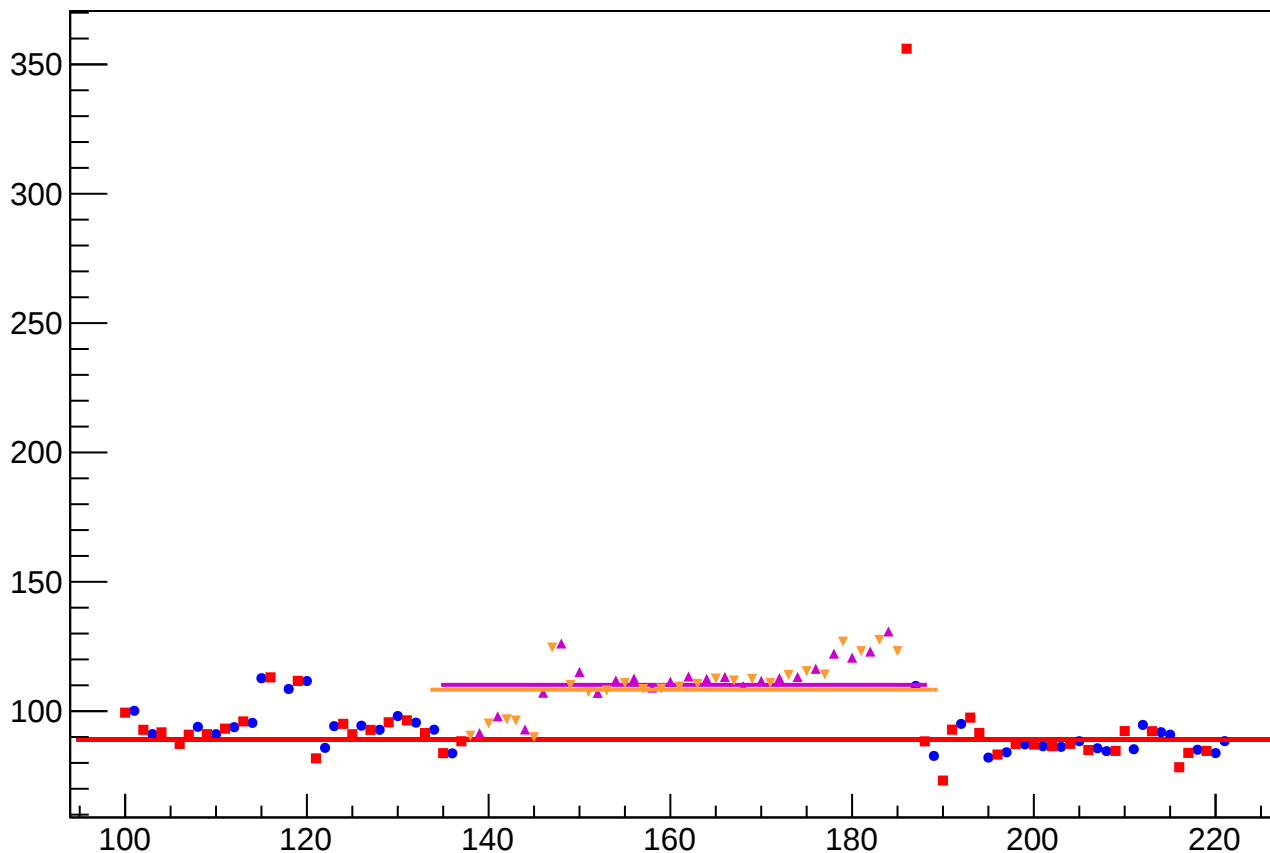
Right: -19.955 ± 14.233 χ^2/NDF : 68.5/71

In: -80.340 ± 15.963 χ^2/NDF : 65.8/57

Out: -72.409 ± 15.805 χ^2/NDF : 92.5/61

All: -76.335 ± 11.231 χ^2/NDF : 158.4/119

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected

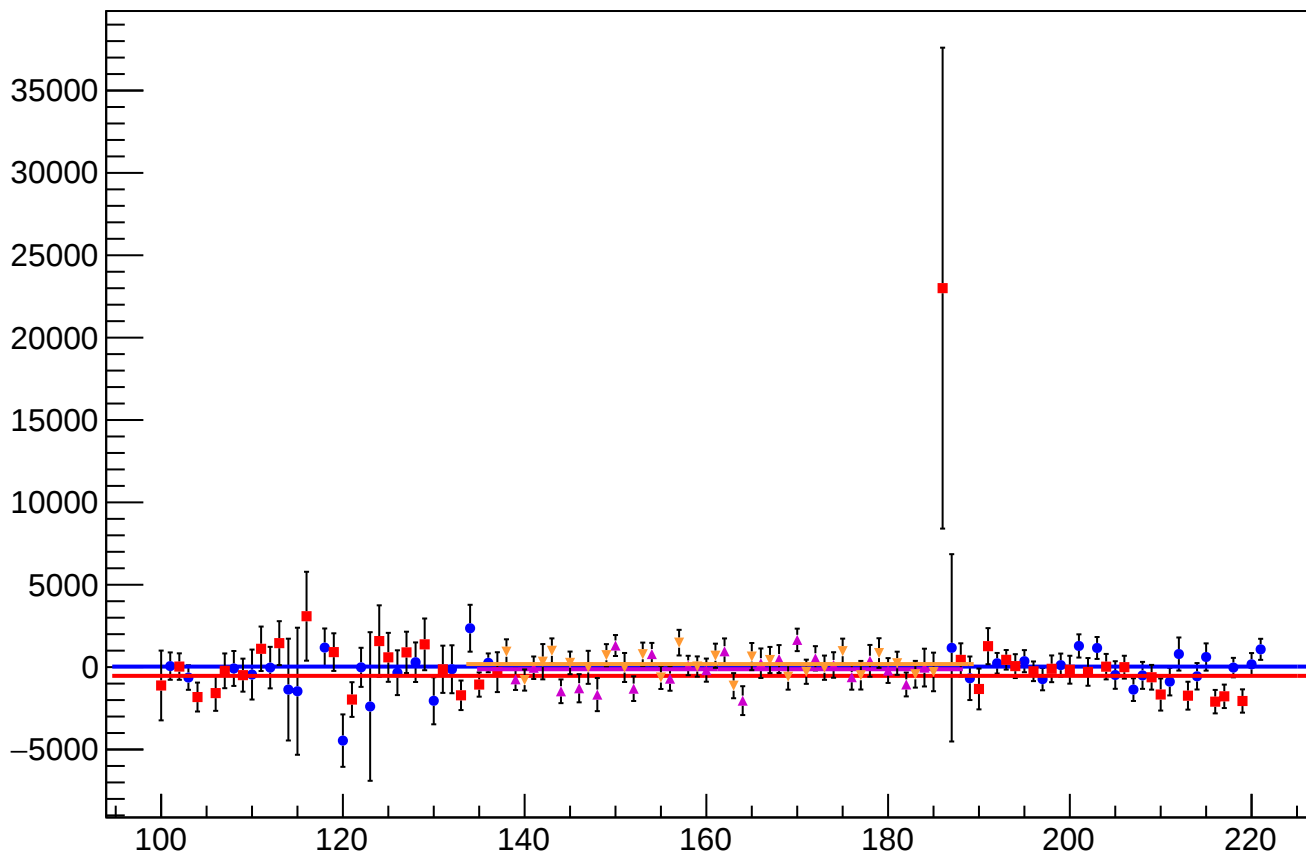


Right In: 89.164 $\pm$ 0.014 χ^2 /NDF: 182918.5/34
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 88.856 $\pm$ 0.014 χ^2 /NDF: 623201.1/36
 Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47
 Right: 89.012 $\pm$ 0.010 χ^2 /NDF: 806353.0/71
 In: 96.819 $\pm$ 0.011 χ^2 /NDF: 1232258.8/57
 Out: 96.435 $\pm$ 0.011 χ^2 /NDF: 1673046.5/61

All: 96.625 $\pm$ 0.008 χ^2 /NDF: 2905889.7/119

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 32.166+/-149.376 χ^2/NDF : 34.0/34

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -530.553+/-152.524 χ^2/NDF : 47.1/36

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

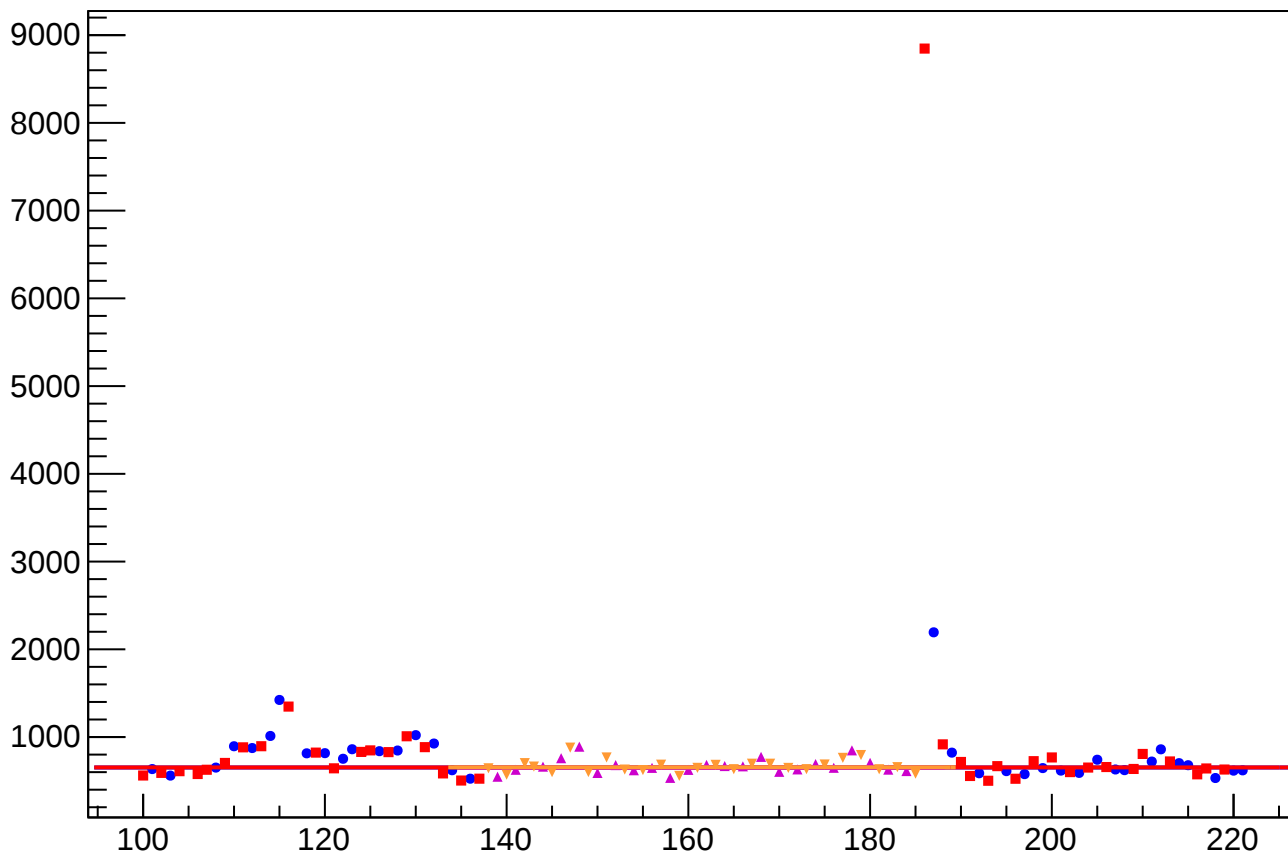
Right: -243.326+/-106.720 χ^2/NDF : 88.1/71

In: -44.226+/-108.270 χ^2/NDF : 70.8/57

Out: -175.291+/-108.258 χ^2/NDF : 76.5/61

All: -109.766+/-76.554 χ^2/NDF : 148.0/119

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 652.790 $\pm$ 0.106 χ^2 /NDF: 1208244.2/34

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.851 $\pm$ 0.108 χ^2 /NDF: 1856707.6/36

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

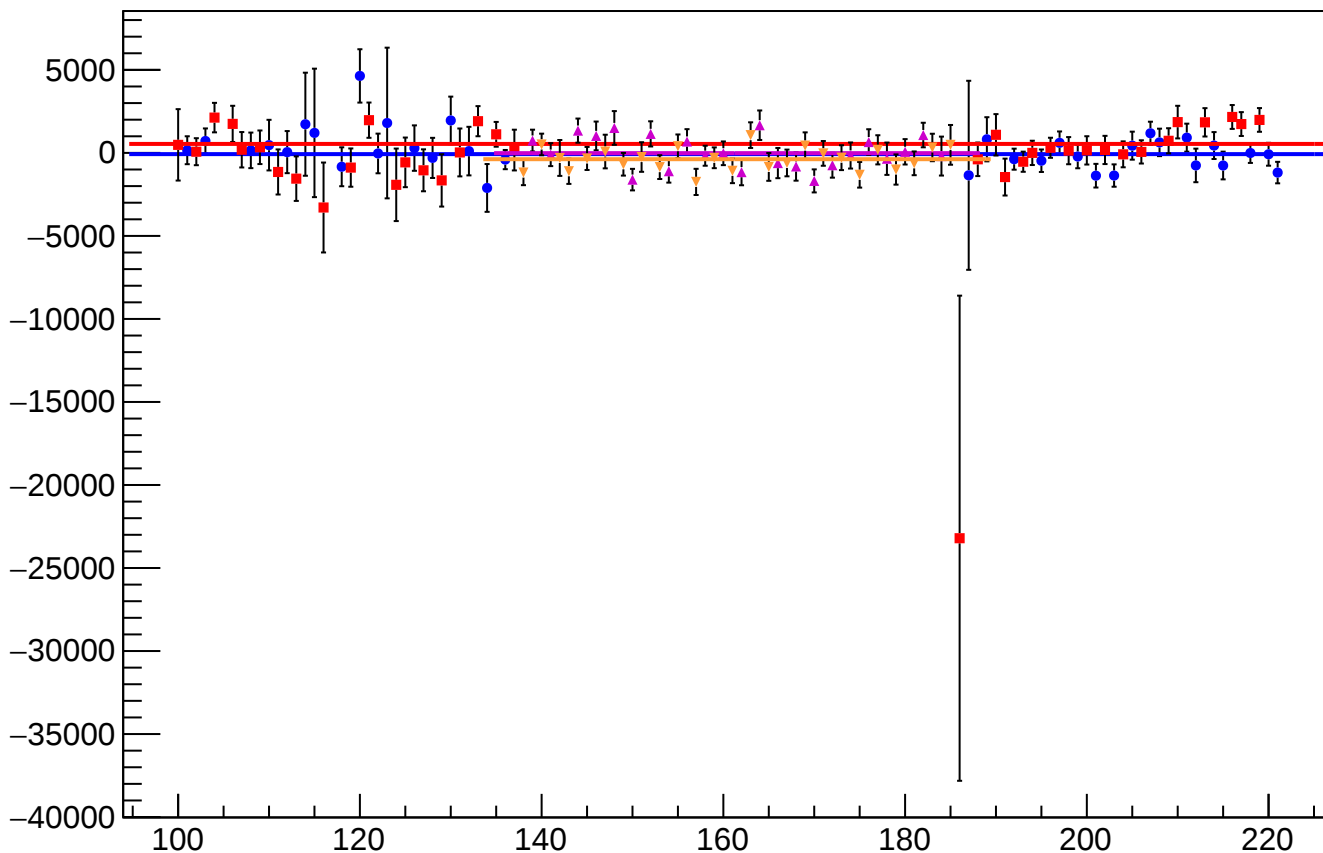
Right: 653.310 $\pm$ 0.075 χ^2 /NDF: 3065001.1/71

In: 651.885 $\pm$ 0.077 χ^2 /NDF: 1674515.7/57

Out: 654.498 $\pm$ 0.077 χ^2 /NDF: 2224129.9/61

All: 653.192 $\pm$ 0.054 χ^2 /NDF: 3899228.2/119

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -73.671 ± 150.894 χ^2/NDF : 34.8/34

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 540.174 ± 154.093 χ^2/NDF : 51.3/36

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

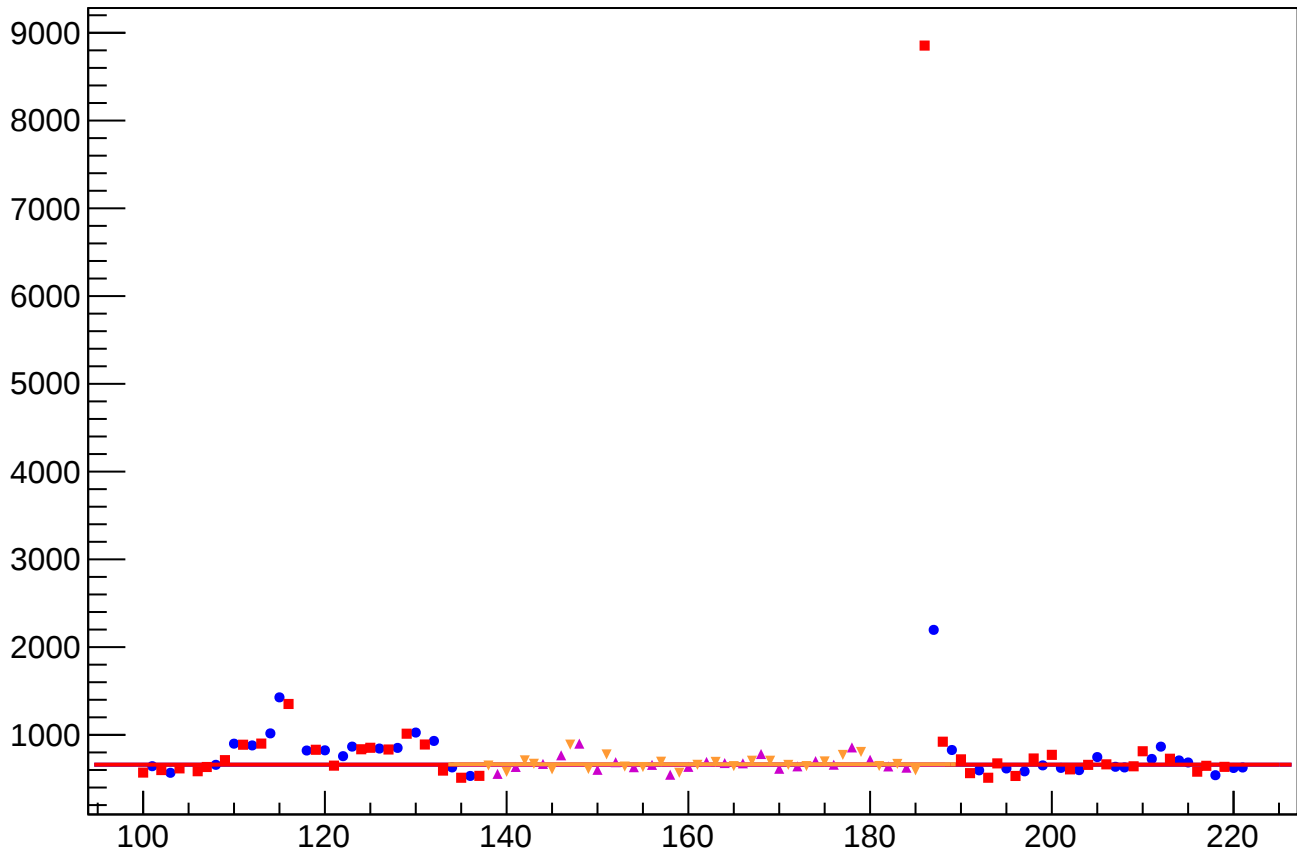
Right: 226.814 ± 107.812 χ^2/NDF : 94.2/71

In: -45.854 ± 109.619 χ^2/NDF : 72.1/57

Out: 85.689 ± 109.591 χ^2/NDF : 87.7/61

All: 19.934 ± 77.502 χ^2/NDF : 160.5/119

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 659.807+/-0.107 χ^2/NDF : 1179871.4/34

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.067+/-0.109 χ^2/NDF : 1819303.1/36

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

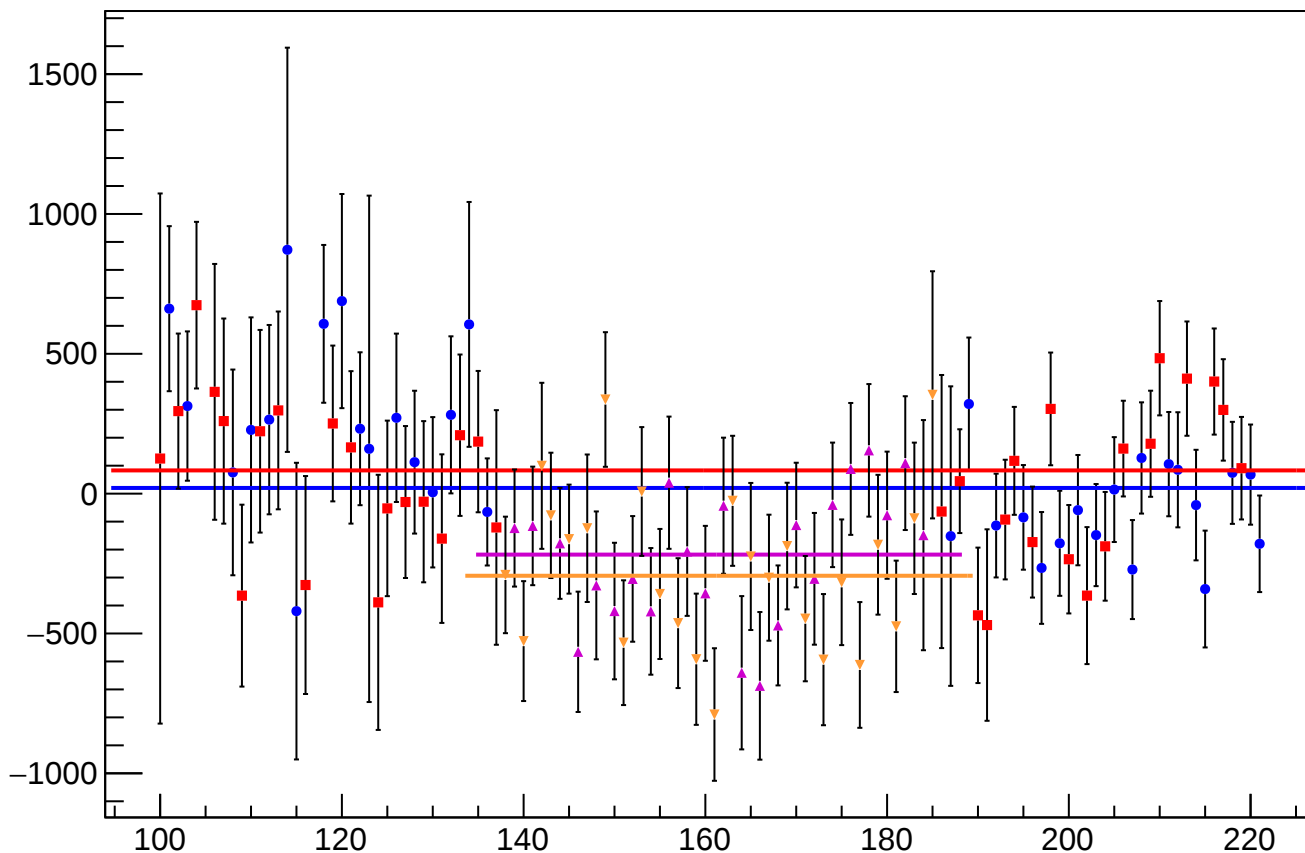
Right: 660.424+/-0.076 χ^2/NDF : 2999242.8/71

In: 660.318+/-0.078 χ^2/NDF : 1629100.1/57

Out: 662.898+/-0.077 χ^2/NDF : 2176928.6/61

All: 661.609+/-0.055 χ^2/NDF : 3806582.6/119

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

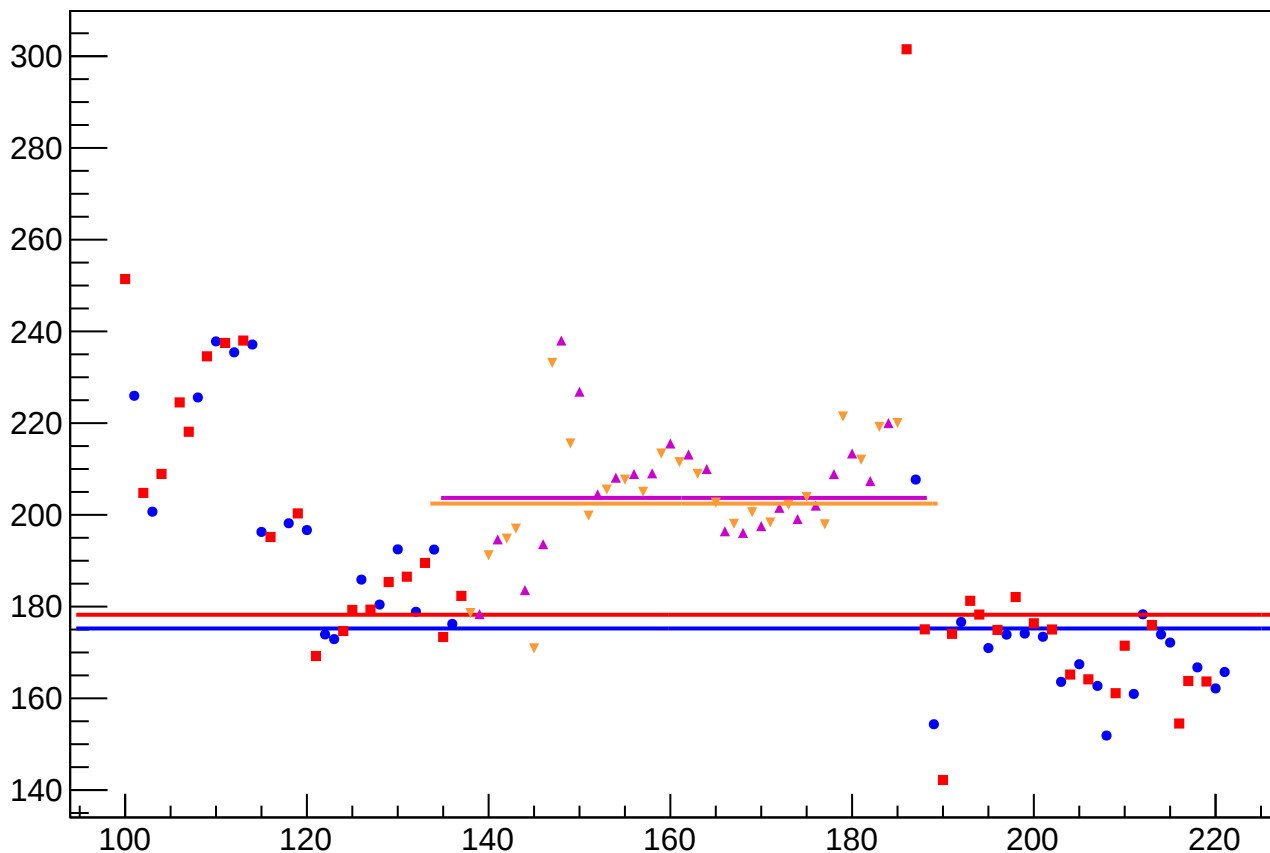


Right In: 20.373+/-39.469 χ^2/NDF : 35.1/34
 Left Out: -293.590+/-47.203 χ^2/NDF :30.3/24
 Right Out: 83.074+/-40.635 χ^2/NDF : 41.9/36
 Left In: -217.964+/-48.819 χ^2/NDF :21.3/22

Left: -257.050+/-33.934 χ^2/NDF : 52.9/47
 Right: 50.811+/-28.312 χ^2/NDF : 78.2/71
 In: -73.836+/-30.693 χ^2/NDF :70.8/57
 Out: -77.249+/-30.796 χ^2/NDF :108.8/61

All: -75.537+/-21.739 χ^2/NDF : 179.6/119

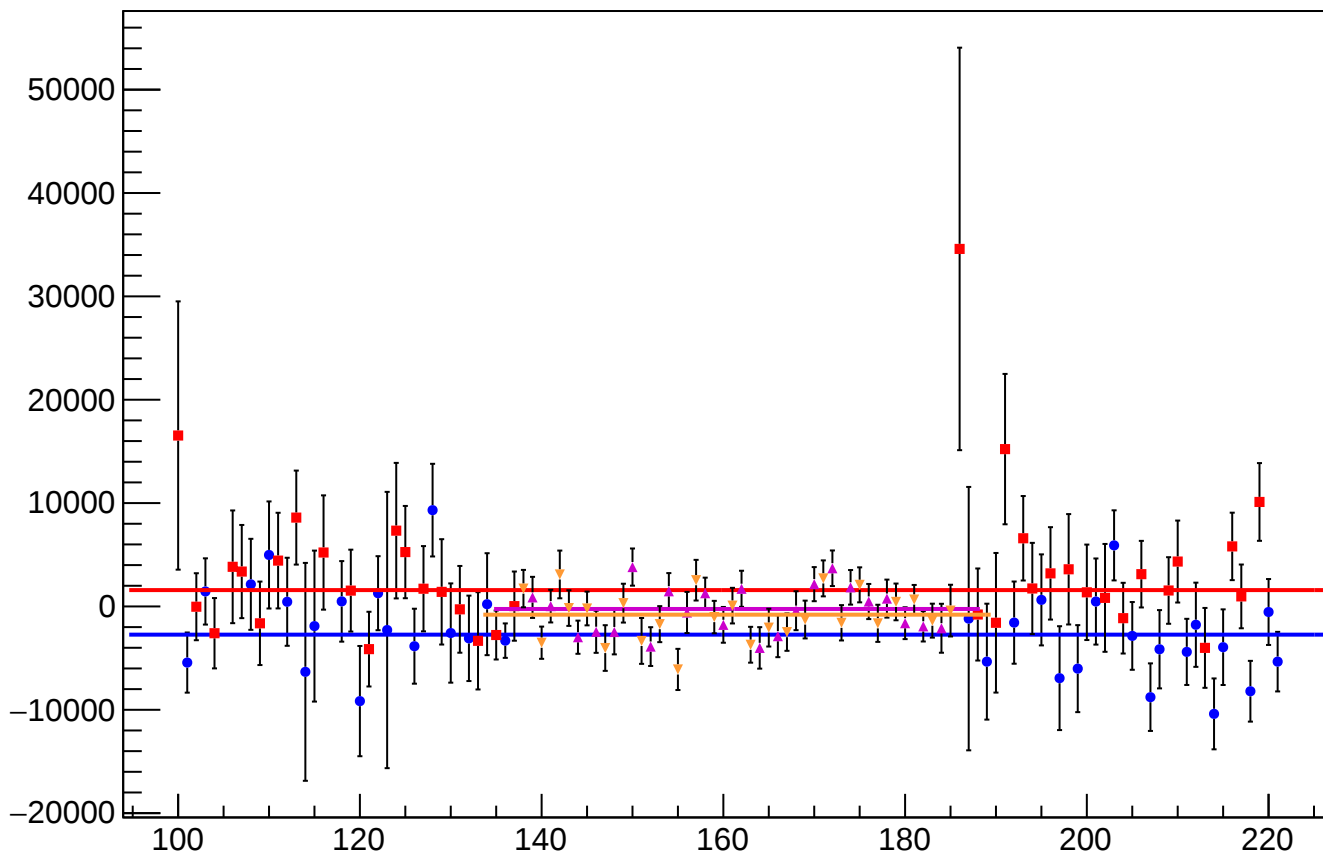
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 175.230 $\pm$ 0.028 χ^2 /NDF: 386046.4/34
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 178.224 $\pm$ 0.029 χ^2 /NDF: 564475.7/36
 Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47
 Right: 176.683 $\pm$ 0.020 χ^2 /NDF: 956110.9/71
 In: 186.483 $\pm$ 0.022 χ^2 /NDF:933539.4/57
 Out: 188.539 $\pm$ 0.022 χ^2 /NDF:1025849.7/61
 All: 187.508 $\pm$ 0.015 χ^2 /NDF: 1963863.5/119

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2729.126 $\pm$ 632.103 χ^2 /NDF: 40.9/34

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF:35.7/24

Right Out: 1581.431 $\pm$ 675.346 χ^2 /NDF: 35.0/36

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF:35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

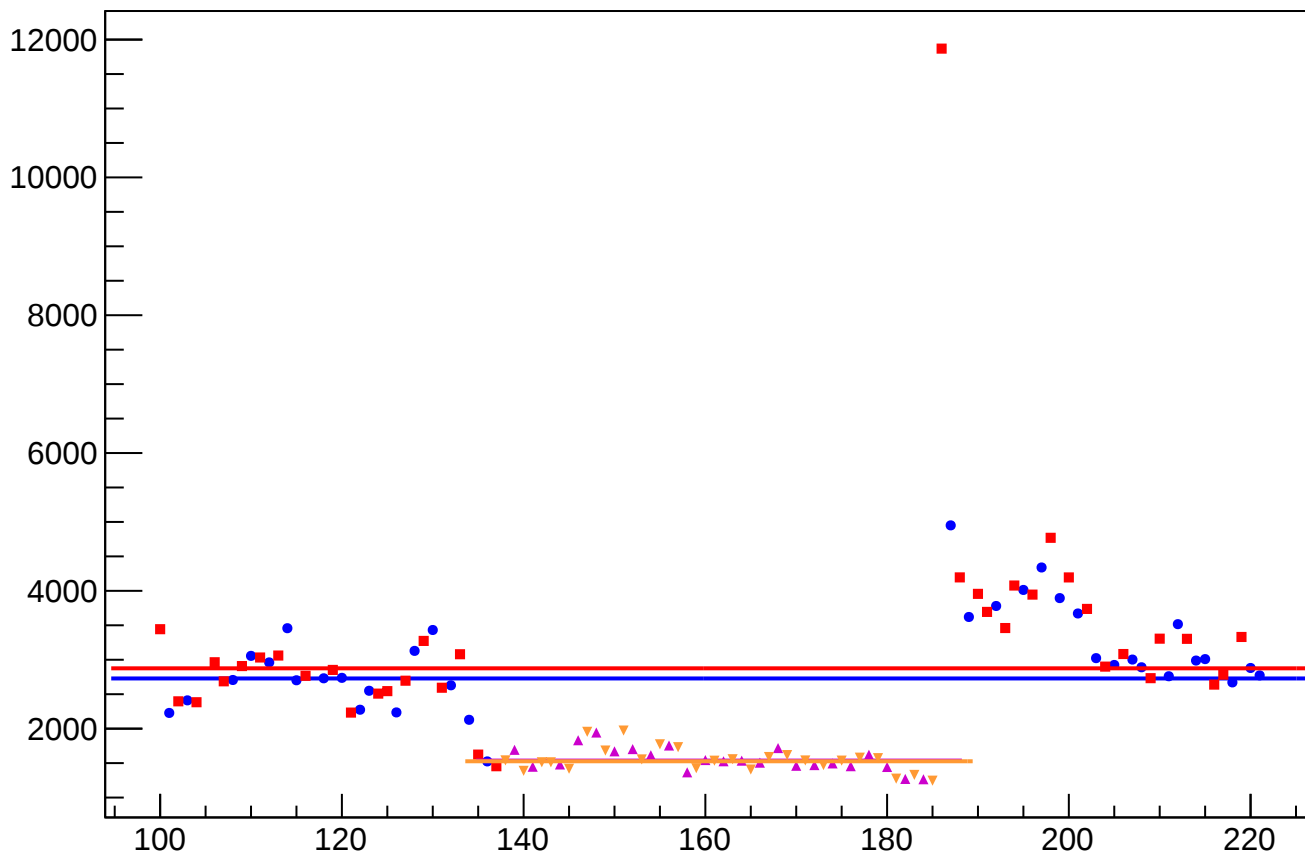
Right: -716.263 $\pm$ 461.495 χ^2 /NDF: 97.7/71

In: -878.618 $\pm$ 319.219 χ^2 /NDF:88.1/57

Out: -275.232 $\pm$ 316.203 χ^2 /NDF:80.5/61

All: -574.062 $\pm$ 224.648 χ^2 /NDF: 170.4/119

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2728.507 $\pm$ 0.447 χ^2 /NDF: 2332647.4/34

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2875.539 $\pm$ 0.478 χ^2 /NDF: 2682924.0/36

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

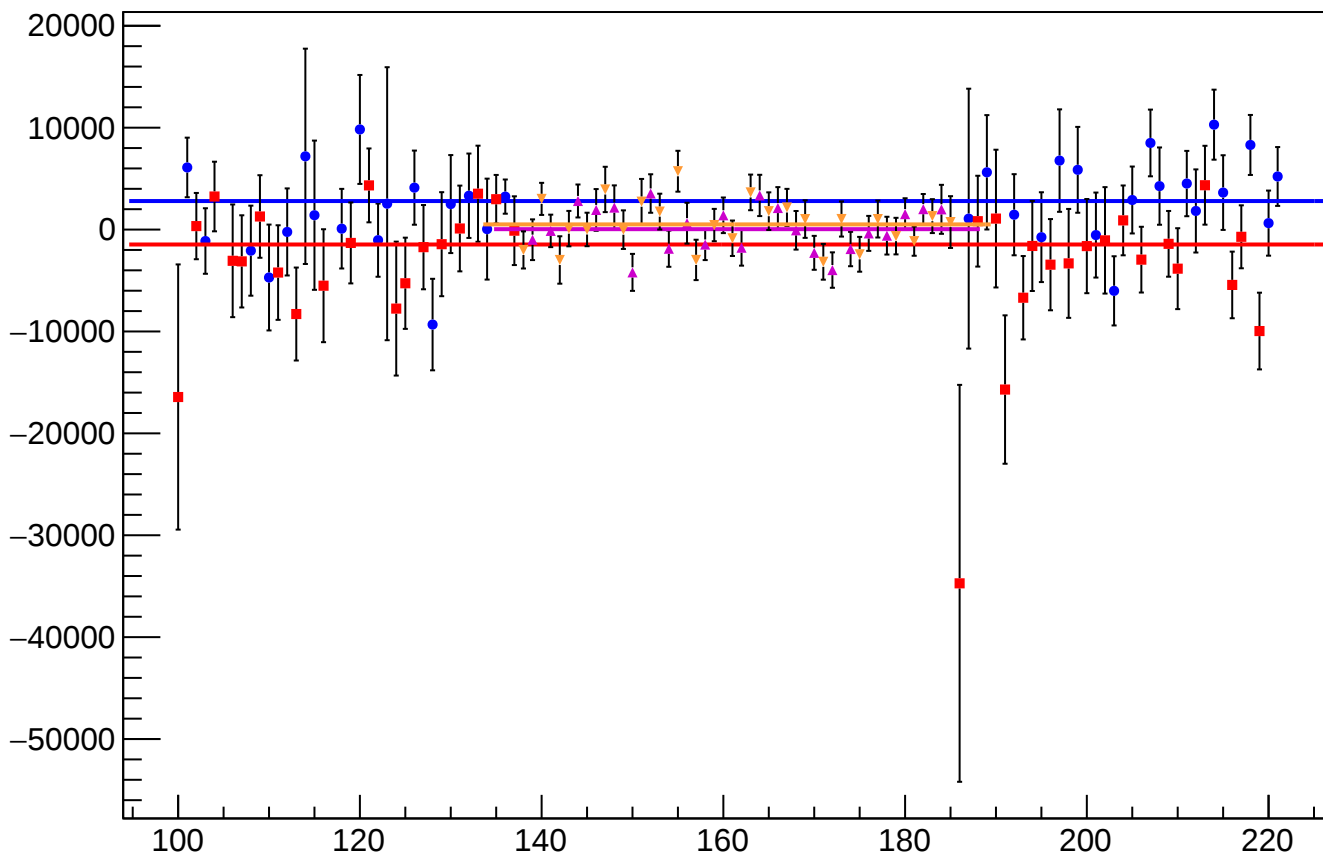
Right: 2797.165 $\pm$ 0.326 χ^2 /NDF: 5066102.7/71

In: 1840.533 $\pm$ 0.226 χ^2 /NDF: 7981116.7/57

Out: 1822.401 $\pm$ 0.224 χ^2 /NDF: 9306817.7/61

All: 1831.381 $\pm$ 0.159 χ^2 /NDF: 17291191.3/118

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2799.522 $\pm$ 633.945 χ^2 /NDF: 40.5/34

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1464.109 $\pm$ 677.228 χ^2 /NDF: 35.5/36

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

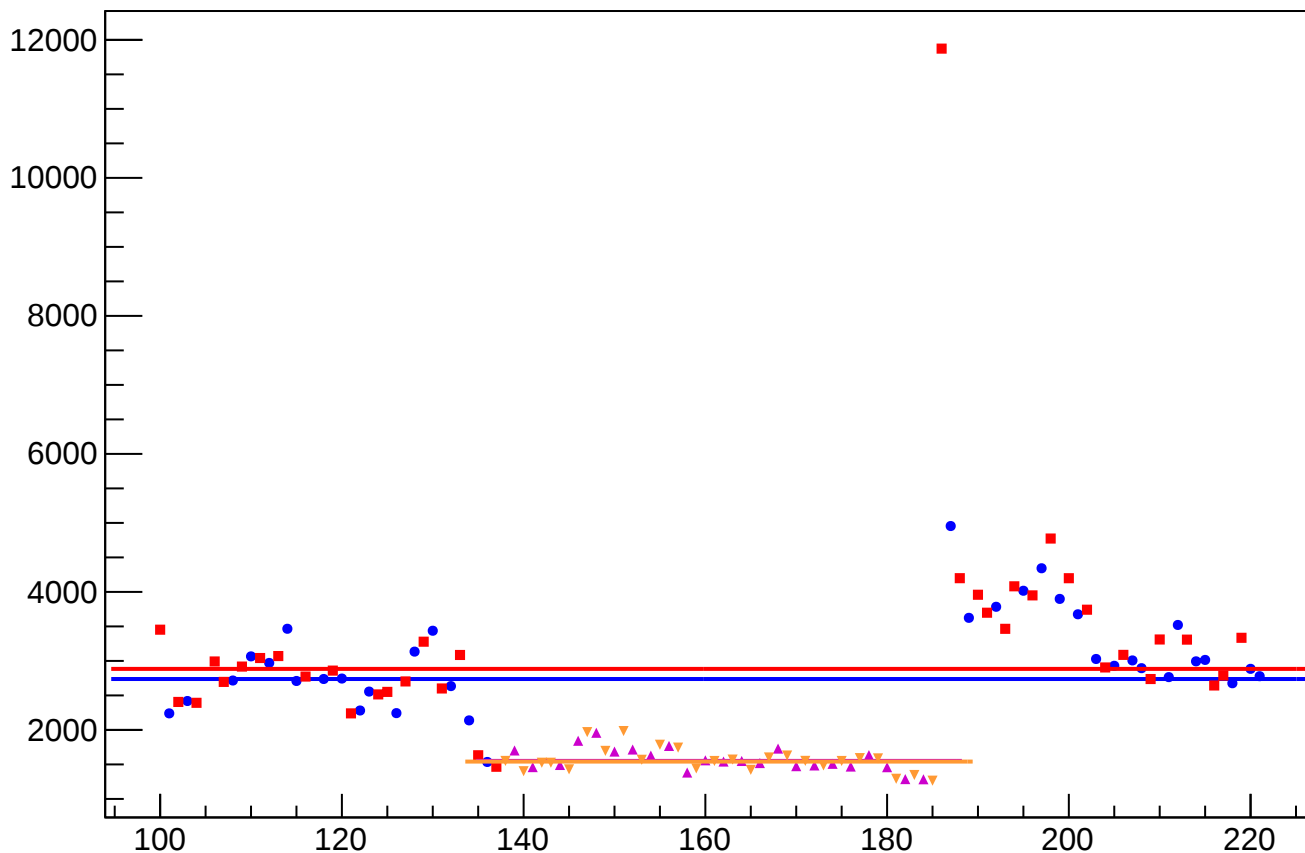
Right: 808.299 $\pm$ 462.812 χ^2 /NDF: 97.1/71

In: 750.444 $\pm$ 321.648 χ^2 /NDF:88.1/57

Out: 71.285 $\pm$ 318.685 χ^2 /NDF:77.4/61

All: 407.721 $\pm$ 226.385 χ^2 /NDF: 167.8/119

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2737.767+/-0.448 χ^2/NDF : 2299254.3/34

Left Out: 1541.258+/-0.255 χ^2/NDF : 382045.4/24

Right Out: 2884.430+/-0.479 χ^2/NDF : 2656631.9/36

Left In: 1551.063+/-0.264 χ^2/NDF : 338898.9/22

Left: 1546.000+/-0.184 χ^2/NDF : 721657.1/47

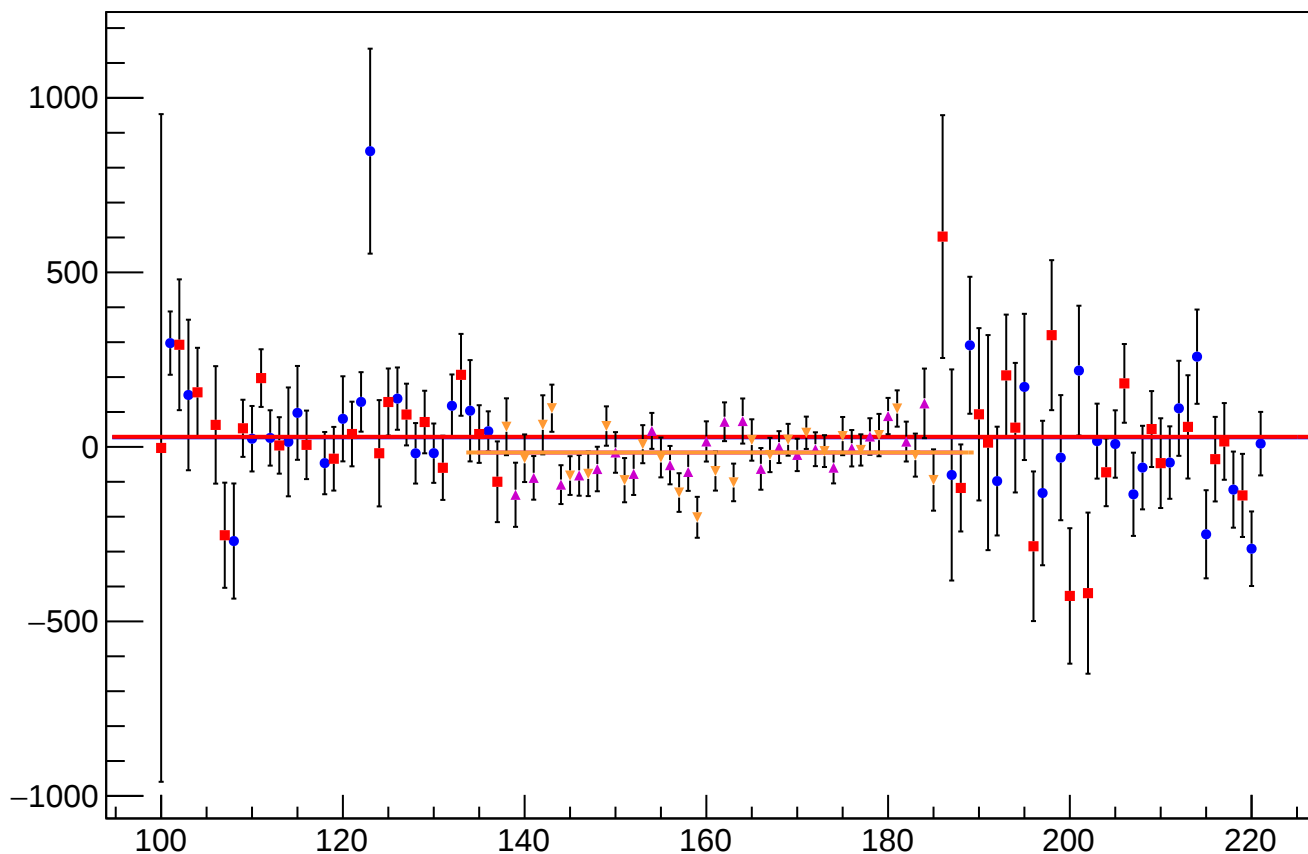
Right: 2806.262+/-0.327 χ^2/NDF : 5005879.2/71

In: 1856.557+/-0.227 χ^2/NDF : 7842287.5/57

Out: 1838.688+/-0.225 χ^2/NDF : 9163826.1/61

All: 1847.540+/-0.160 χ^2/NDF : 17009228.5/100

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 27.433 ± 18.760 $\chi^2/\text{NDF}: 53.0/34$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 28.916 ± 19.527 $\chi^2/\text{NDF}: 41.9/36$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

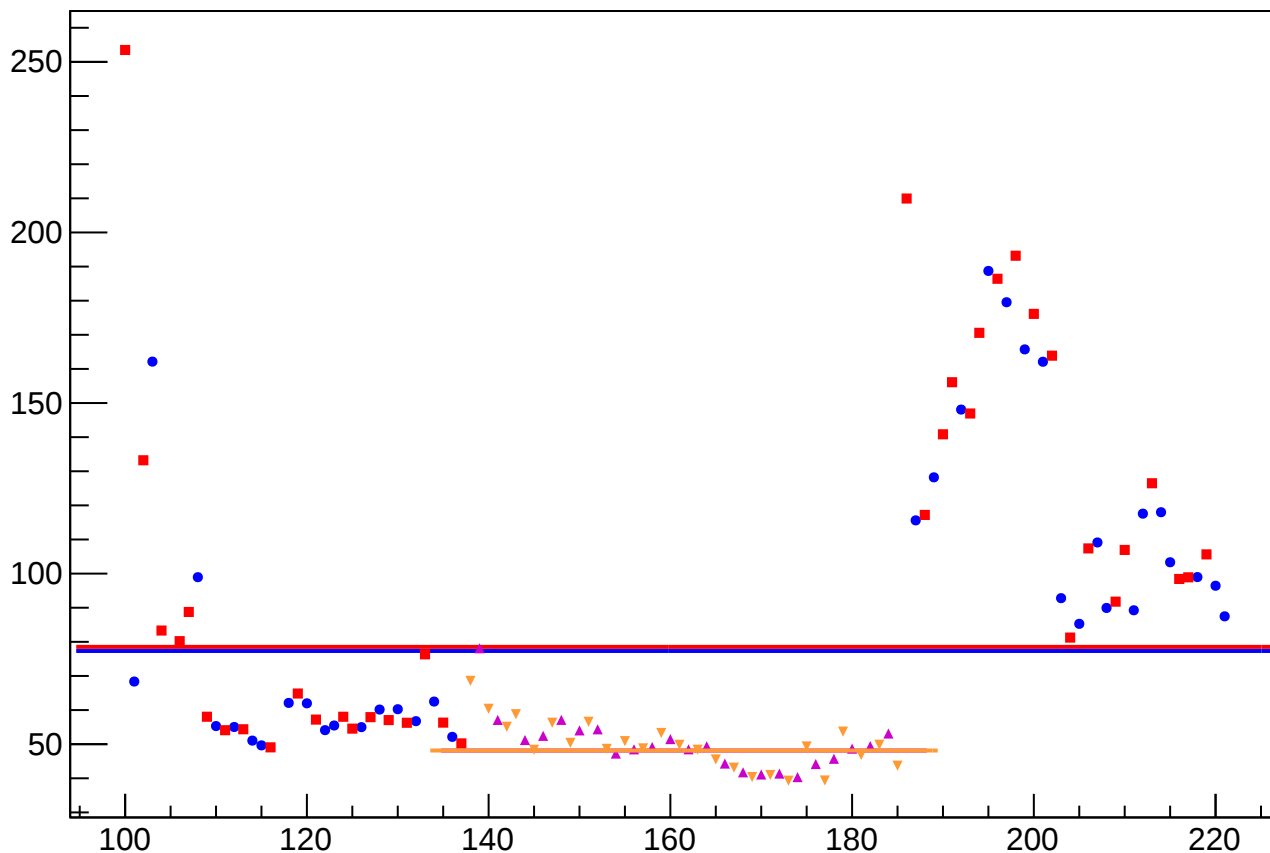
Right: 28.145 ± 13.528 $\chi^2/\text{NDF}: 94.9/71$

In: -4.029 ± 9.897 $\chi^2/\text{NDF}: 82.2/57$

Out: -4.709 ± 9.806 $\chi^2/\text{NDF}: 85.5/61$

All: -4.372 ± 6.966 $\chi^2/\text{NDF}: 167.7/119$

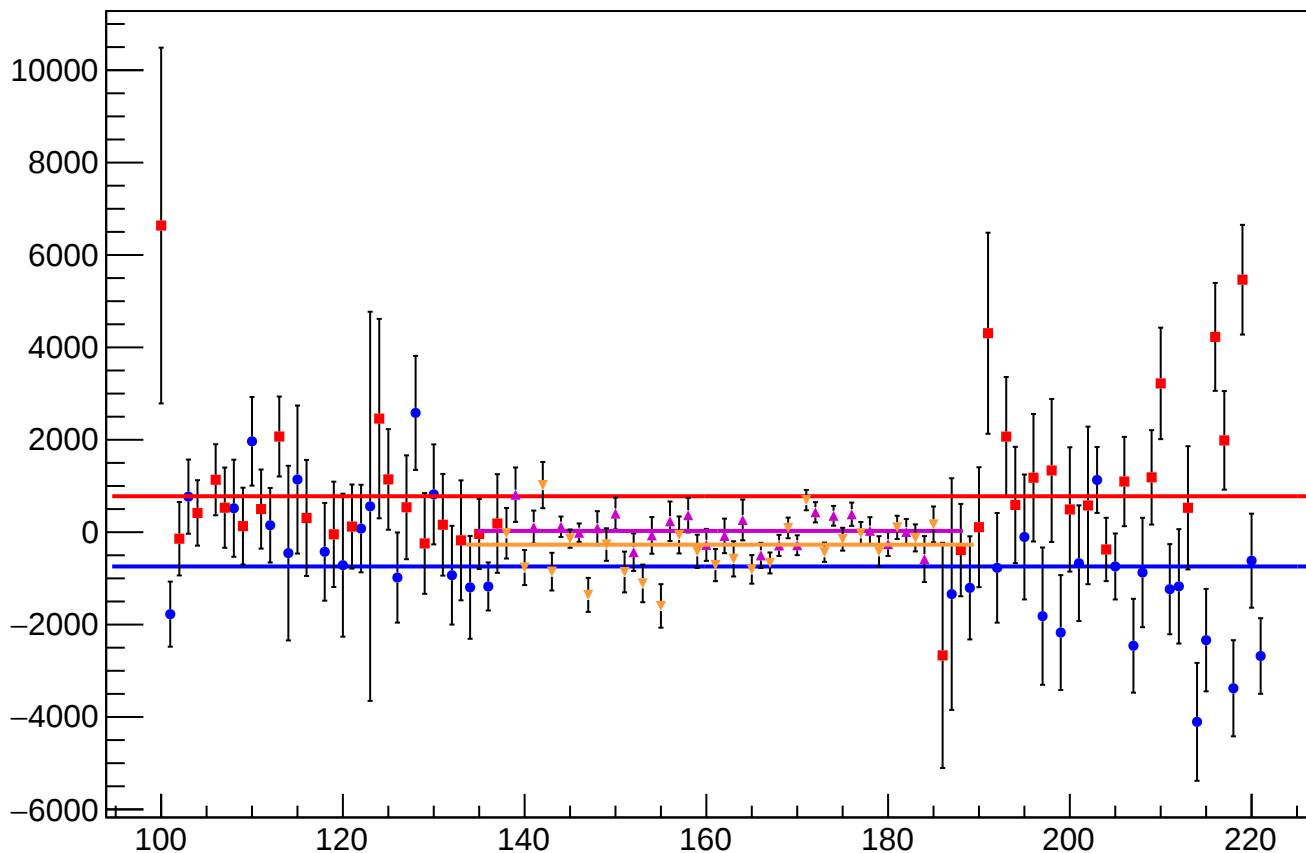
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 77.327 $\pm$ 0.013 χ^2 /NDF: 5210994.4/34
 Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24
 Right Out: 78.527 $\pm$ 0.014 χ^2 /NDF: 5909298.8/36
 Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47
 Right: 77.903 $\pm$ 0.010 χ^2 /NDF: 11124221.2/71
 In: 56.262 $\pm$ 0.007 χ^2 /NDF: 9279978.9/57
 Out: 55.804 $\pm$ 0.007 χ^2 /NDF: 10186110.6/61
 All: 56.031 $\pm$ 0.005 χ^2 /NDF: 19468250.5/119

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -741.876 ± 170.820 $\chi^2/\text{NDF}: 62.5/34$

Left Out: -270.214 ± 60.177 $\chi^2/\text{NDF}: 70.1/24$

Right Out: 777.903 ± 174.289 $\chi^2/\text{NDF}: 52.7/36$

Left In: 27.271 ± 60.430 $\chi^2/\text{NDF}: 25.1/22$

Left: -122.095 ± 42.641 $\chi^2/\text{NDF}: 107.3/47$

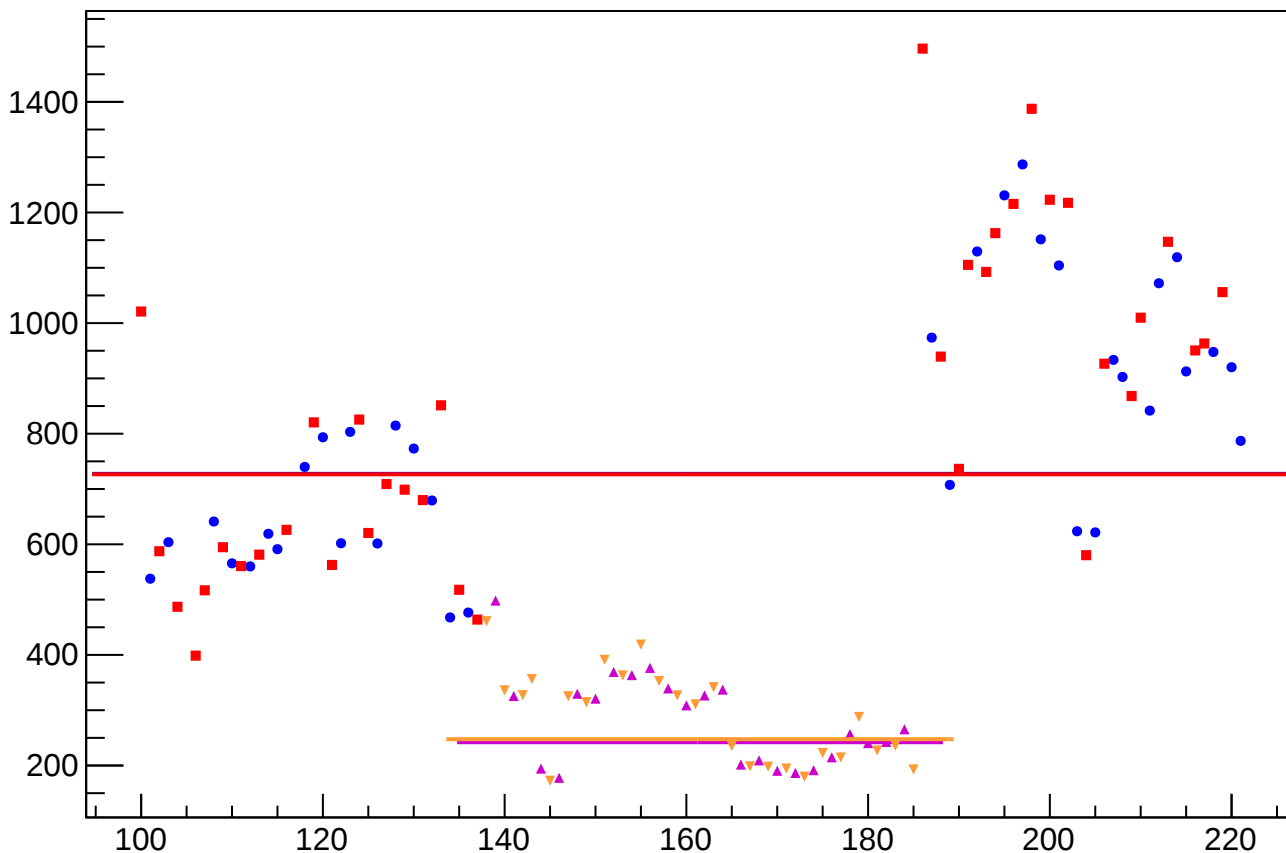
Right: 2.736 ± 121.996 $\chi^2/\text{NDF}: 153.9/71$

In: -58.281 ± 56.970 $\chi^2/\text{NDF}: 105.5/57$

Out: -158.573 ± 56.882 $\chi^2/\text{NDF}: 155.1/61$

All: -108.504 ± 40.253 $\chi^2/\text{NDF}: 262.2/119$

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 727.370 $\pm$ 0.121 χ^2 /NDF: 3070905.3/34

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 726.586 $\pm$ 0.123 χ^2 /NDF: 4030575.7/36

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

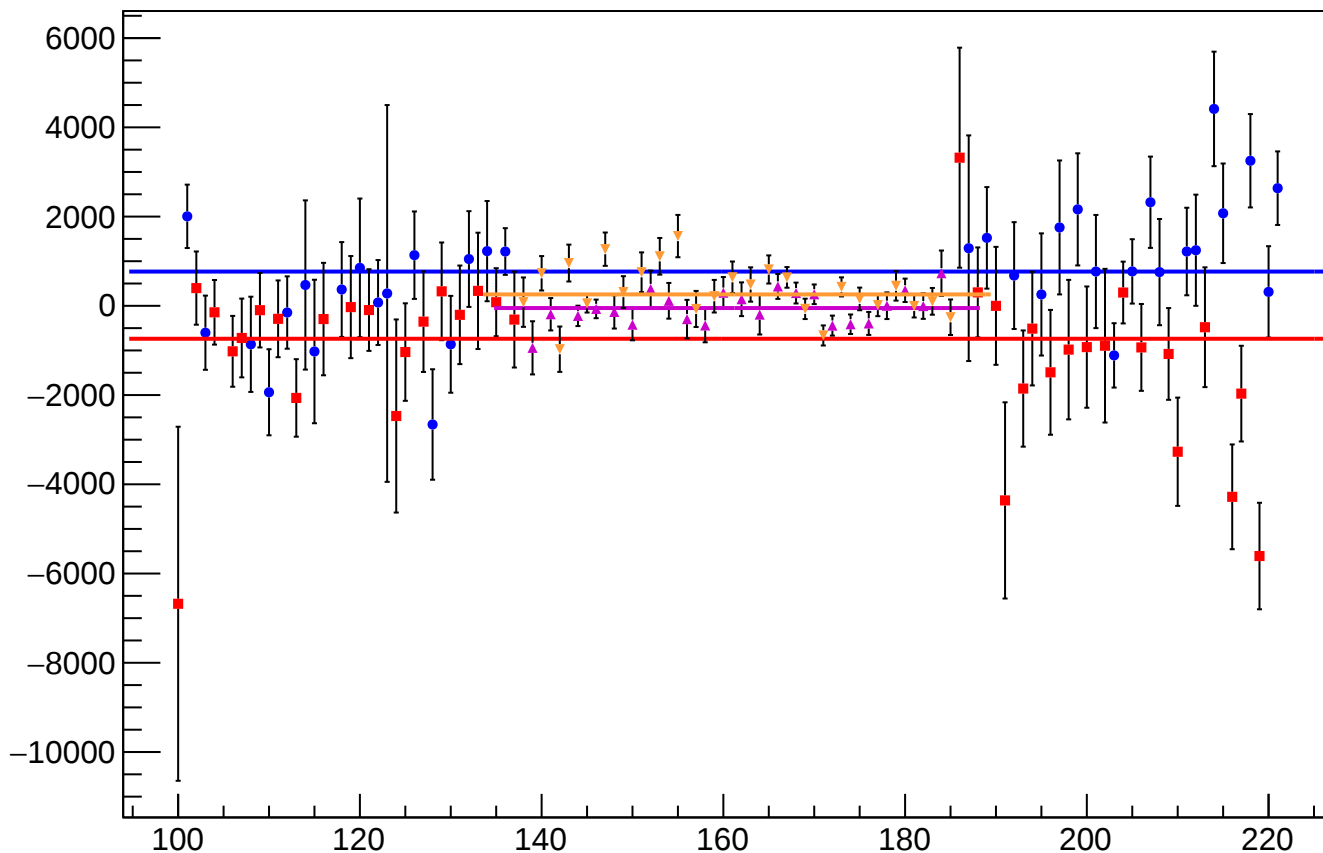
Right: 726.986 $\pm$ 0.086 χ^2 /NDF: 7101501.7/71

In: 296.091 $\pm$ 0.040 χ^2 /NDF: 19881314.3/57

Out: 298.593 $\pm$ 0.040 χ^2 /NDF: 20309638.0/61

All: 297.344 $\pm$ 0.028 χ^2 /NDF: 40192883.4/118

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 767.771 $\pm$ 172.298 χ^2 /NDF: 62.4/34

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF: 63.6/24

Right Out: -738.155 $\pm$ 176.107 χ^2 /NDF: 54.9/36

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

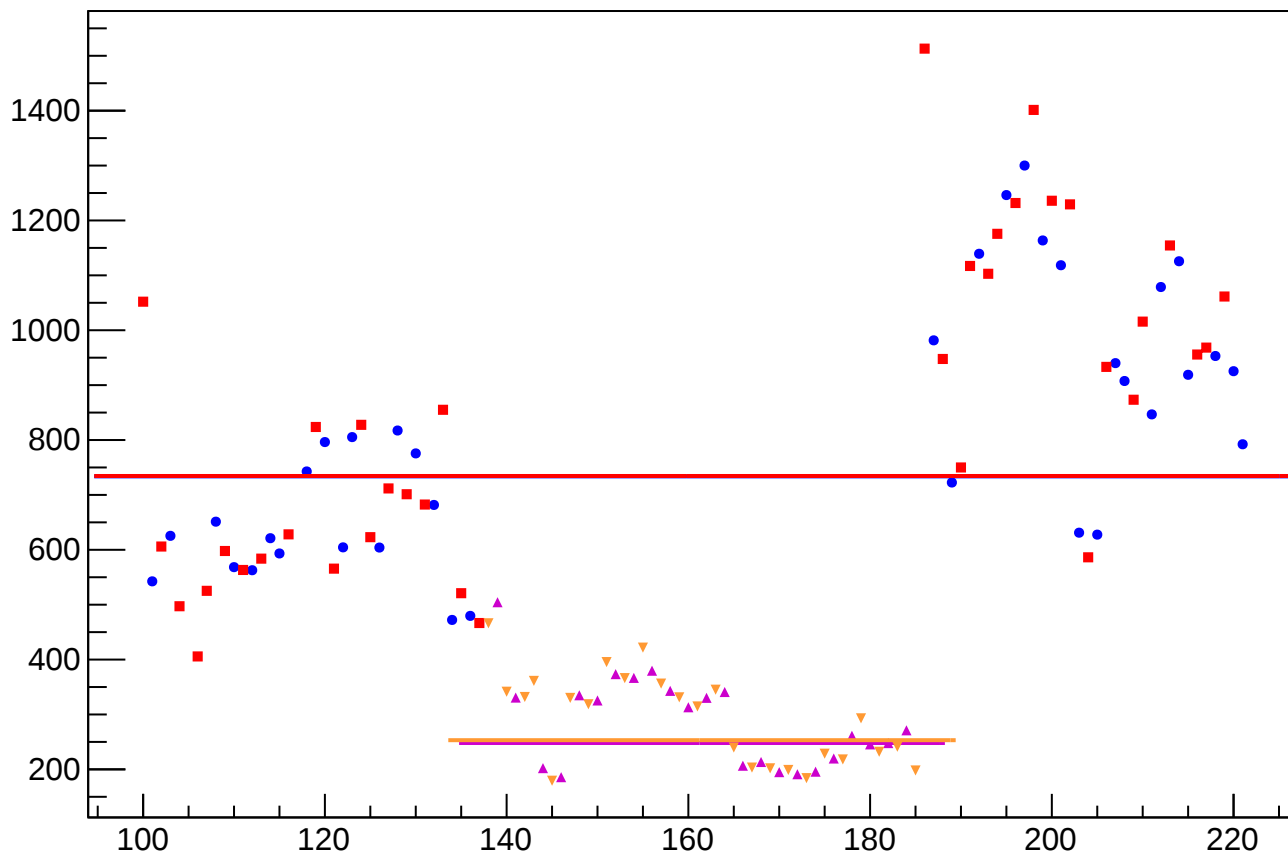
Right: 31.268 $\pm$ 123.158 χ^2 /NDF: 154.6/71

In: 43.314 $\pm$ 58.156 χ^2 /NDF: 109.9/57

Out: 148.188 $\pm$ 57.993 χ^2 /NDF: 146.9/61

All: 95.898 $\pm$ 41.064 χ^2 /NDF: 258.4/119

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 733.789 $\pm$ 0.122 χ^2 /NDF: 3063171.2/34

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 734.462 $\pm$ 0.125 χ^2 /NDF: 3984694.5/36

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF: 2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

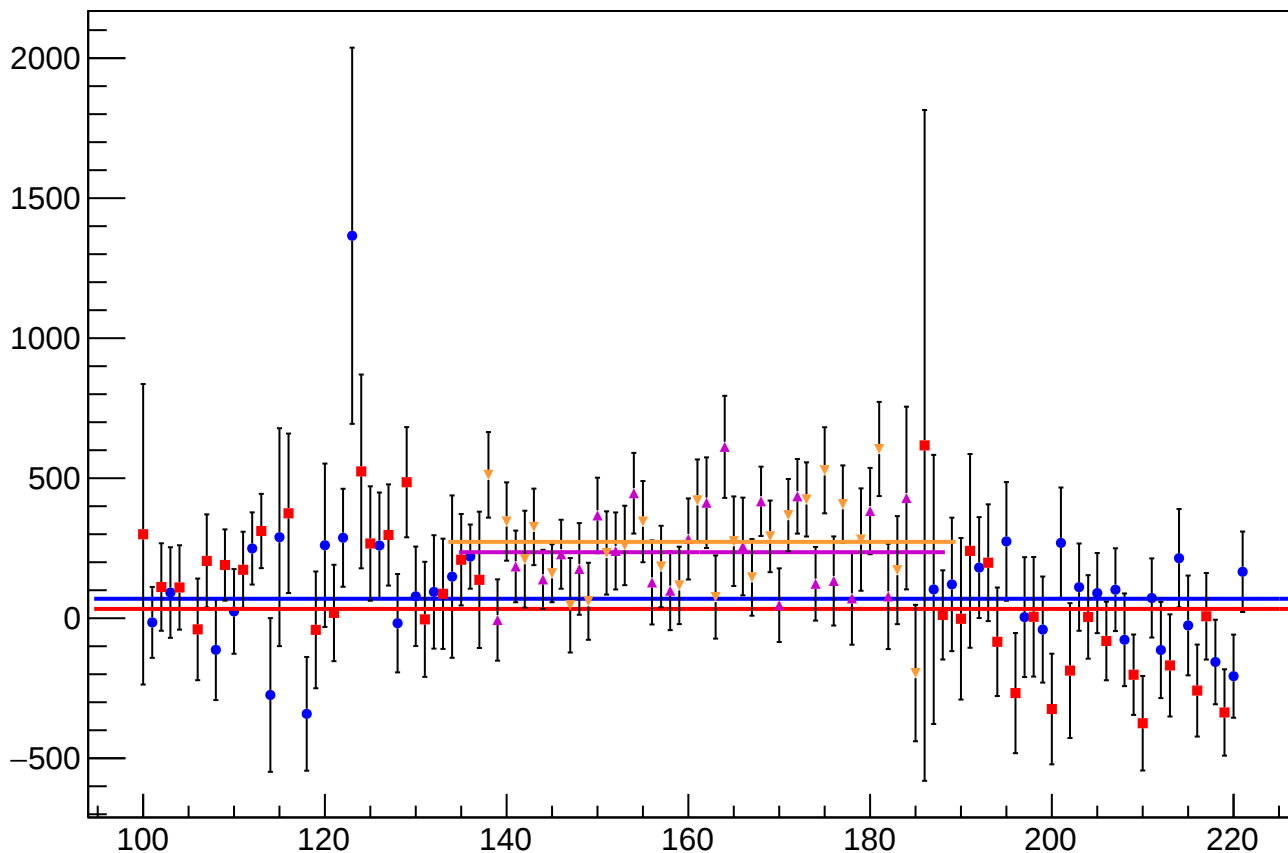
Right: 734.118 $\pm$ 0.087 χ^2 /NDF: 7047880.6/71

In: 303.405 $\pm$ 0.041 χ^2 /NDF: 19490028.0/57

Out: 305.332 $\pm$ 0.041 χ^2 /NDF: 19970703.0/61

All: 304.371 $\pm$ 0.029 χ^2 /NDF: 39461833.1/11

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 69.543+/-29.627 χ^2/NDF : 30.3/34

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 33.279+/-29.924 χ^2/NDF : 49.8/36

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

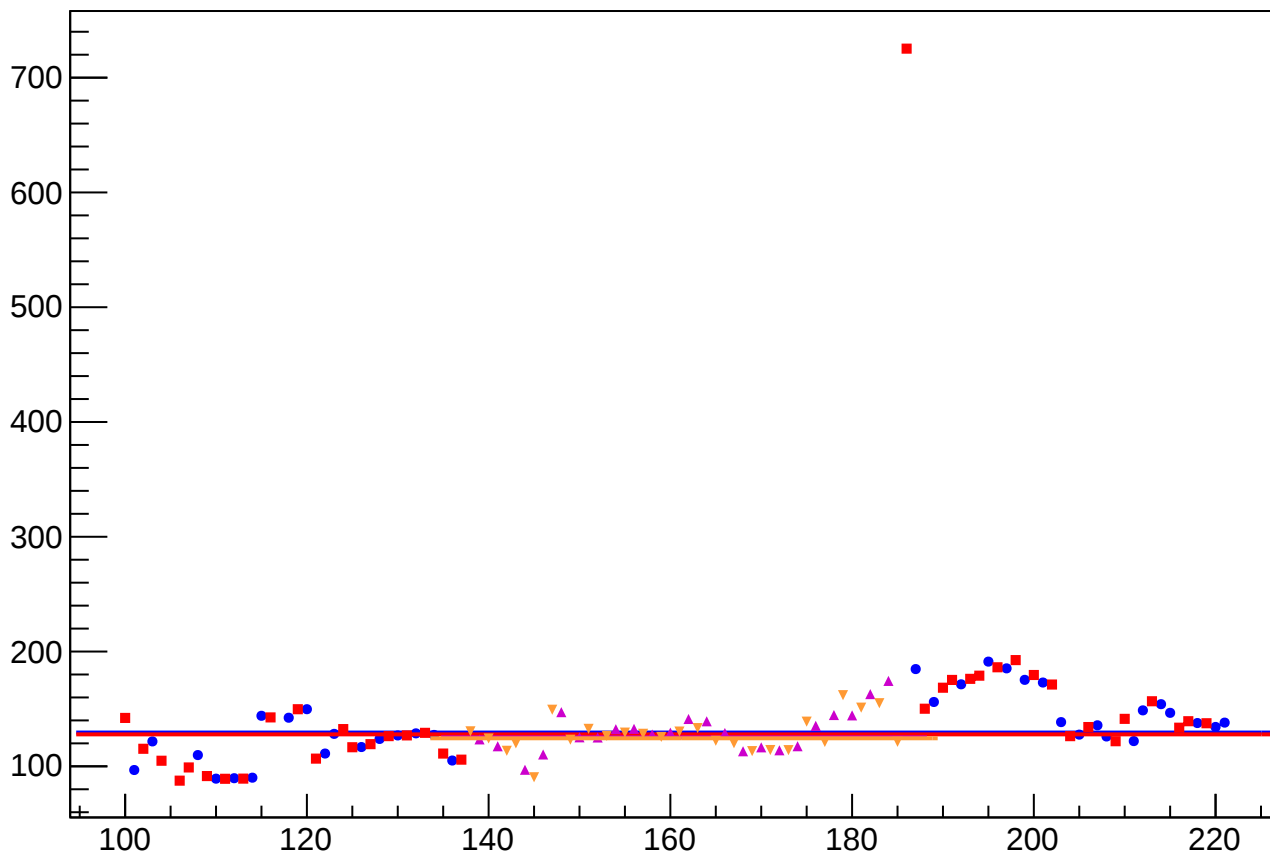
Right: 51.591+/-21.054 χ^2/NDF : 80.8/71

In: 150.993+/-21.160 χ^2/NDF : 70.3/57

Out: 155.825+/-20.906 χ^2/NDF : 110.0/61

All: 153.438+/-14.872 χ^2/NDF : 180.4/119

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 129.418 $\pm$ 0.021 χ^2 /NDF: 1476517.5/34

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 127.843 $\pm$ 0.021 χ^2 /NDF: 2307916.8/36

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

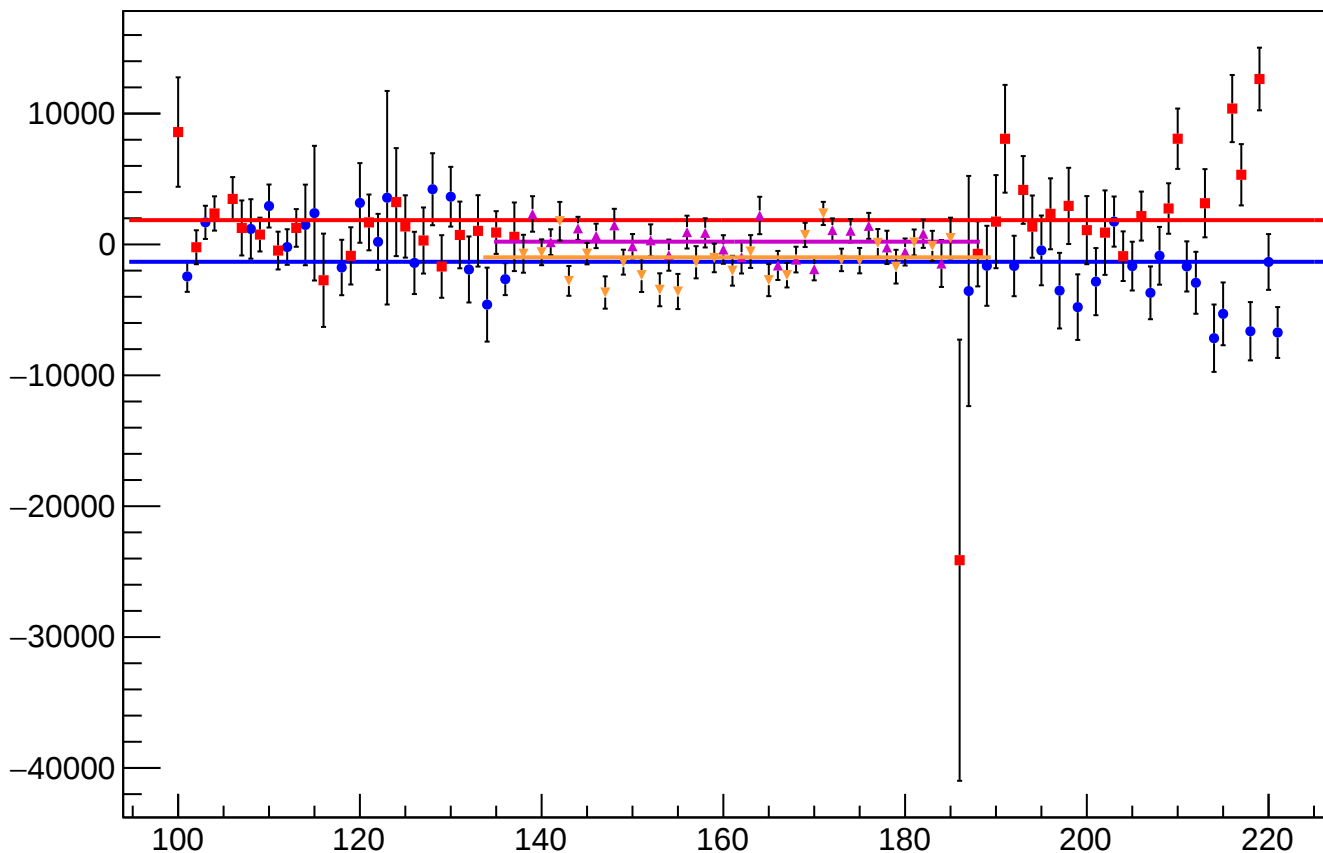
Right: 128.638 $\pm$ 0.015 χ^2 /NDF: 3787234.5/71

In: 127.354 $\pm$ 0.015 χ^2 /NDF: 1997721.2/57

Out: 126.095 $\pm$ 0.015 χ^2 /NDF: 2860974.4/61

All: 126.717 $\pm$ 0.011 χ^2 /NDF: 4862279.0/119

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1325.739 $\pm$ 354.380 χ^2 /NDF: 59.9/34

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF:47.2/24

Right Out: 1856.708 $\pm$ 352.031 χ^2 /NDF: 66.9/36

Left In: 211.420 $\pm$ 223.296 χ^2 /NDF:25.7/22

Left: -399.983 $\pm$ 155.996 χ^2 /NDF: 87.5/47

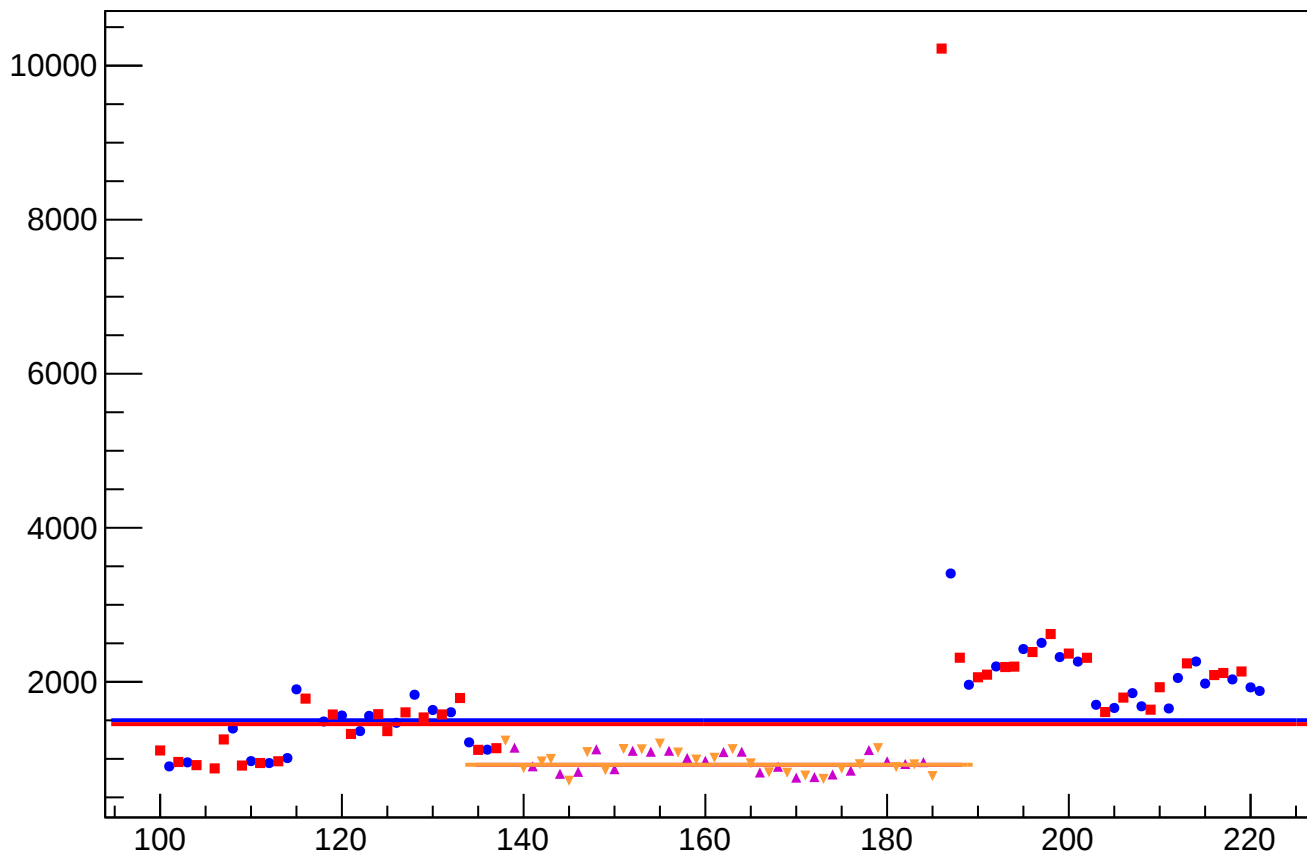
Right: 276.067 $\pm$ 249.750 χ^2 /NDF: 167.4/71

In: -225.435 $\pm$ 188.920 χ^2 /NDF:99.0/57

Out: -195.636 $\pm$ 185.353 χ^2 /NDF:161.2/61

All: -210.252 $\pm$ 132.307 χ^2 /NDF: 260.2/119

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1501.296+/-0.251 χ^2/NDF : 3715496.3/34

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1450.559+/-0.249 χ^2/NDF : 4914742.8/36

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

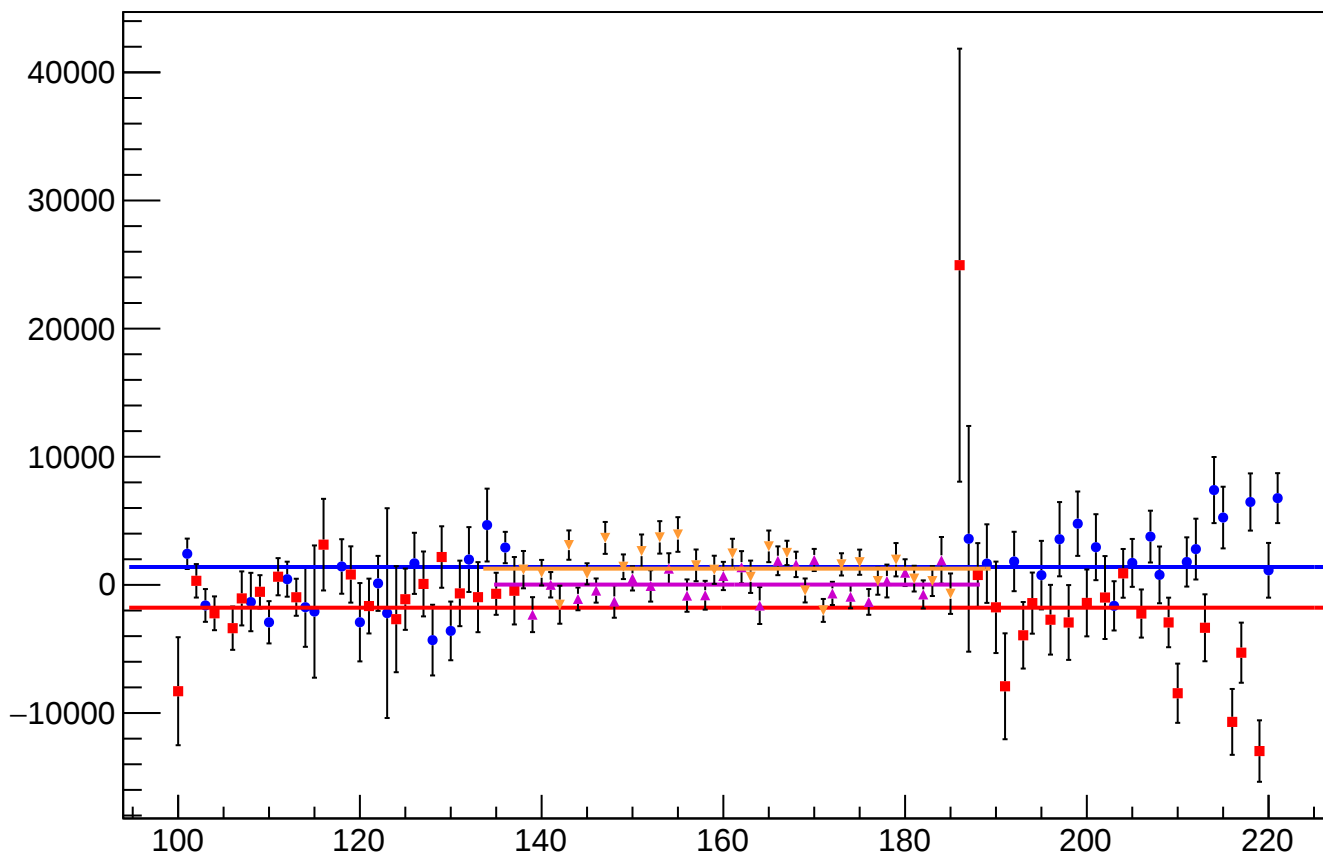
Right: 1475.759+/-0.177 χ^2/NDF : 8650873.4/71

In: 1086.809+/-0.134 χ^2/NDF : 8172458.5/57

Out: 1069.678+/-0.131 χ^2/NDF : 8996766.6/61

All: 1078.080+/-0.094 χ^2/NDF : 17177604.9/122

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1395.509+/-355.821 χ^2/NDF : 59.0/34

Left Out: 1267.344+/-220.133 χ^2/NDF : 44.9/24

Right Out: -1779.475+/-353.631 χ^2/NDF : 71.7/36

Left In: 23.478+/-225.490 χ^2/NDF : 27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

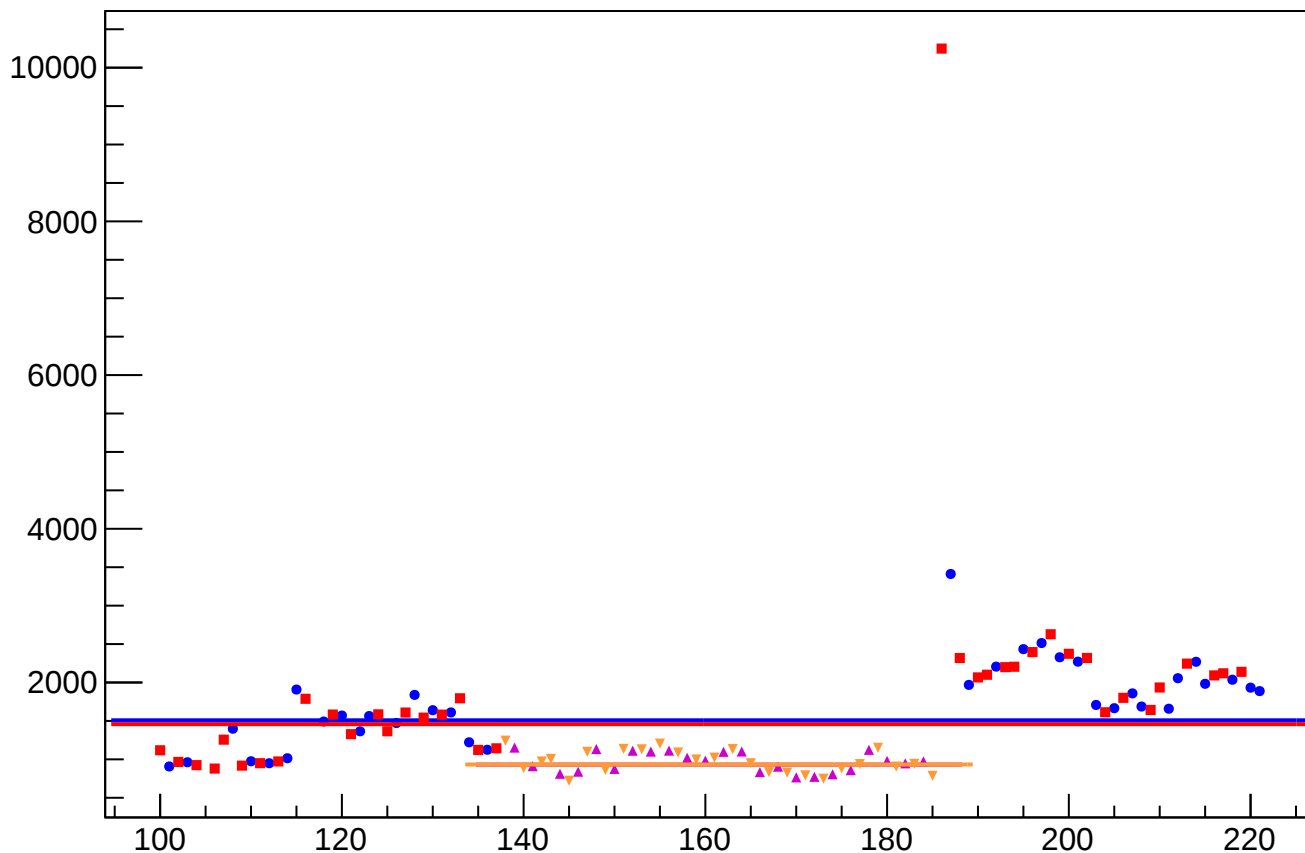
Right: -201.782+/-250.825 χ^2/NDF : 170.7/71

In: 416.605+/-190.465 χ^2/NDF : 96.8/57

Out: 416.433+/-186.883 χ^2/NDF : 170.1/61

All: 416.517+/-133.395 χ^2/NDF : 266.9/119

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1507.986+/-0.252 χ^2/NDF : 3689315.0/34

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1457.679+/-0.250 χ^2/NDF : 4882896.7/36

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

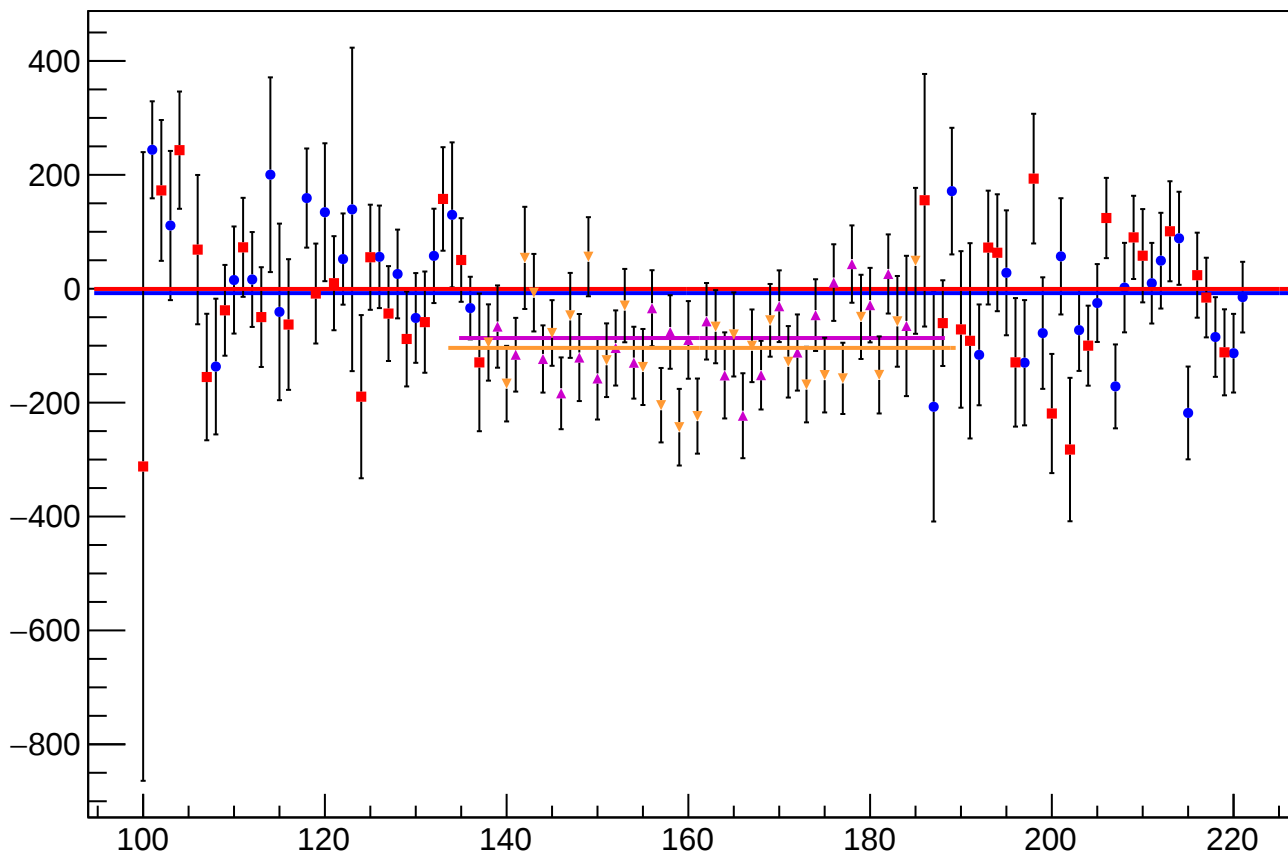
Right: 1482.677+/-0.177 χ^2/NDF : 8592324.4/71

In: 1096.675+/-0.135 χ^2/NDF : 8059449.9/57

Out: 1079.361+/-0.132 χ^2/NDF : 8888652.0/61

All: 1087.854+/-0.094 χ^2/NDF : 16956521.9/131

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -7.703 ± 14.706 $\chi^2/\text{NDF}: 46.6/34$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: -0.356 ± 15.343 $\chi^2/\text{NDF}: 47.2/36$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

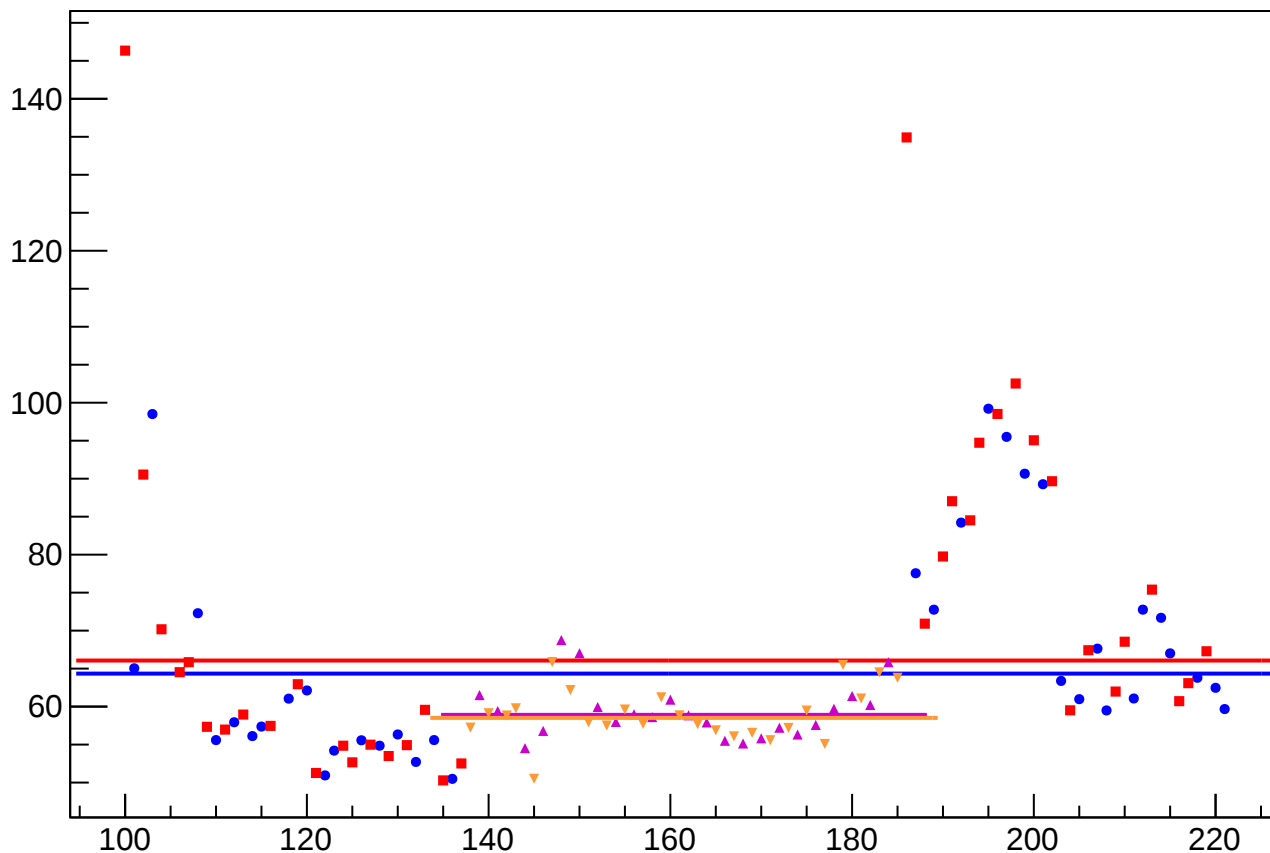
Right: -4.185 ± 10.617 $\chi^2/\text{NDF}: 93.9/71$

In: -48.724 ± 10.185 $\chi^2/\text{NDF}: 82.9/57$

Out: -58.181 ± 10.195 $\chi^2/\text{NDF}: 102.6/61$

All: -53.448 ± 7.205 $\chi^2/\text{NDF}: 186.0/119$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.342 ± 0.010 $\chi^2/\text{NDF}: 1309380.7/34$

Left Out: 58.513 ± 0.010 $\chi^2/\text{NDF}: 123221.6/24$

Right Out: 66.064 ± 0.011 $\chi^2/\text{NDF}: 1687757.7/36$

Left In: 58.913 ± 0.010 $\chi^2/\text{NDF}: 109968.0/22$

Left: 58.706 ± 0.007 $\chi^2/\text{NDF}: 234021.7/47$

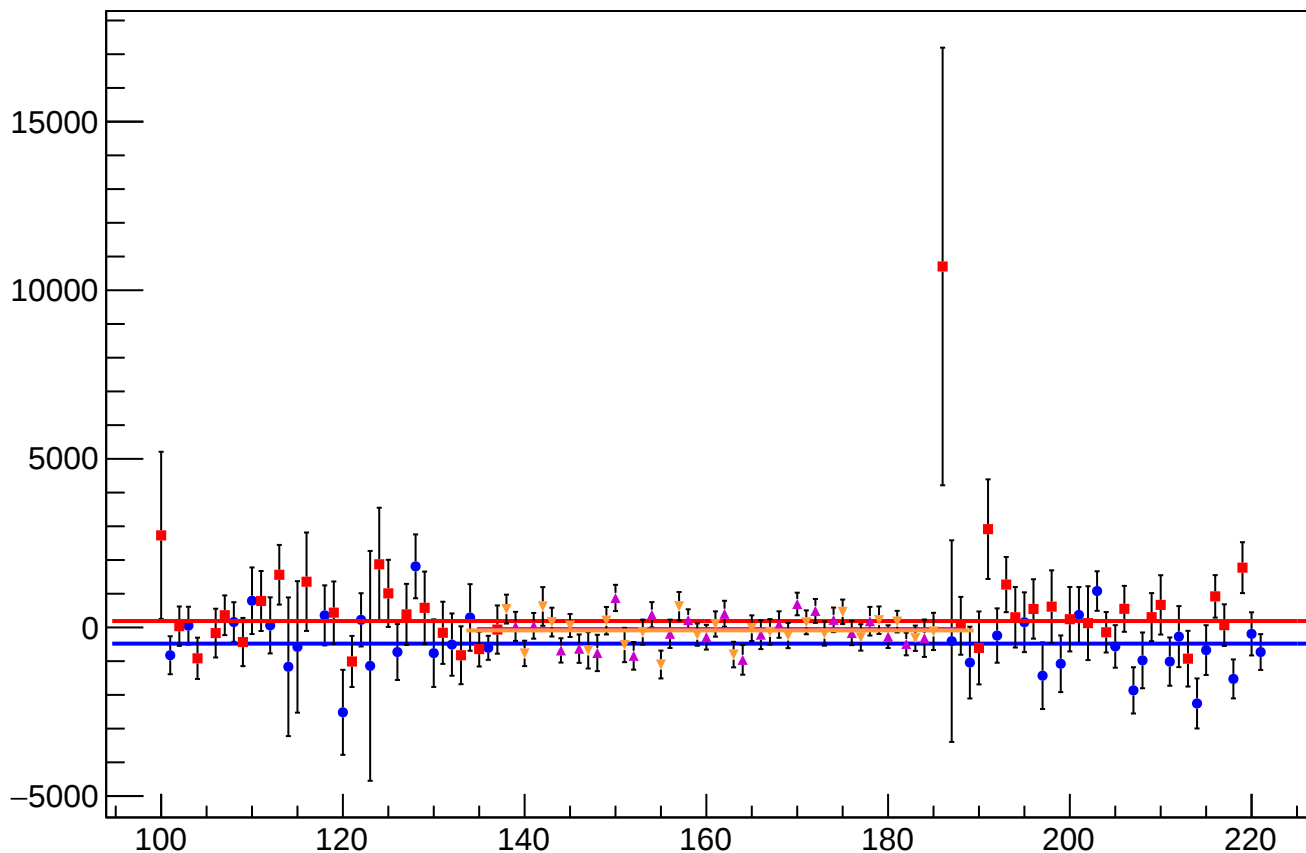
Right: 65.166 ± 0.008 $\chi^2/\text{NDF}: 3010266.4/71$

In: 61.517 ± 0.007 $\chi^2/\text{NDF}: 1561154.3/57$

Out: 61.847 ± 0.007 $\chi^2/\text{NDF}: 2081512.0/61$

All: 61.682 ± 0.005 $\chi^2/\text{NDF}: 3643711.9/119$

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -479.938 ± 127.068 χ^2/NDF : 40.8/34

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 190.737 ± 133.374 χ^2/NDF : 34.9/36

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

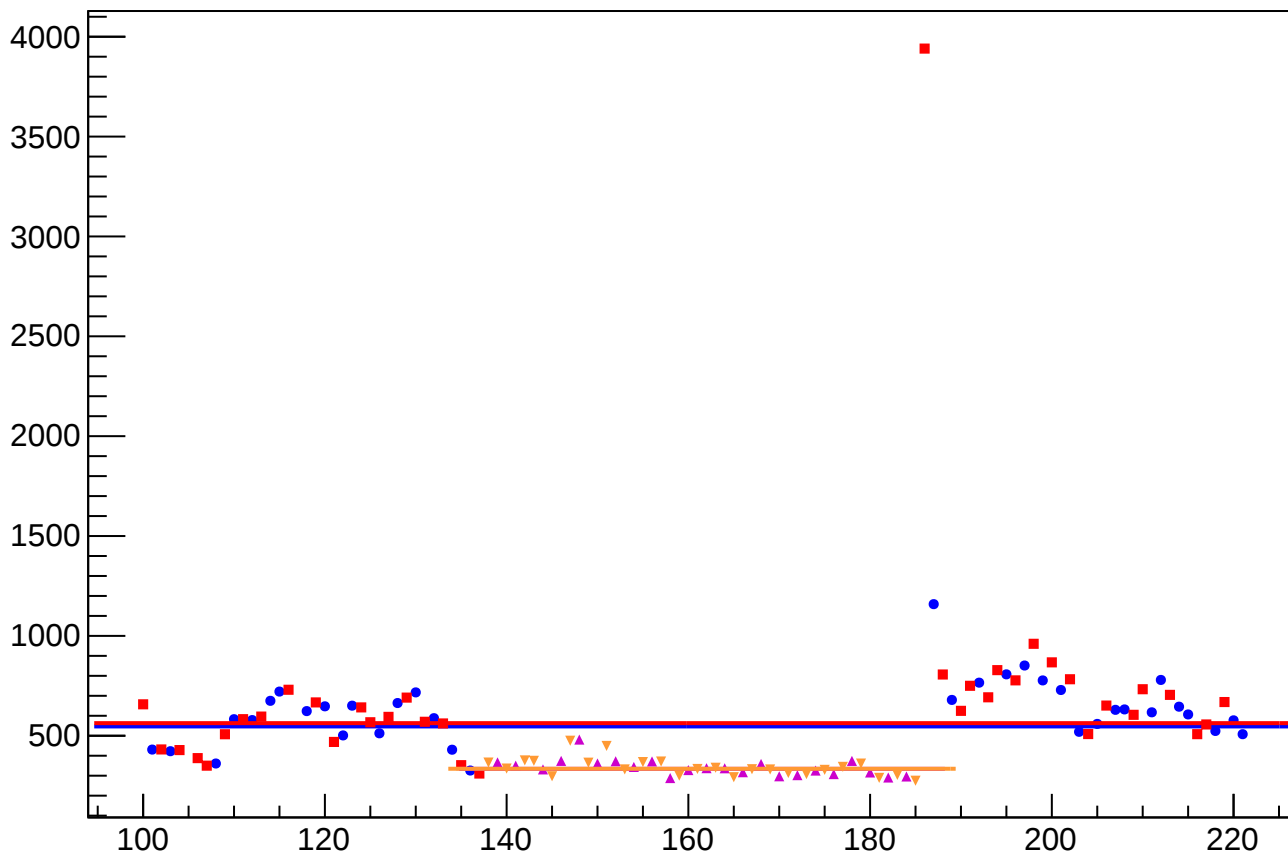
Right: -160.831 ± 91.999 χ^2/NDF : 88.9/71

In: -172.342 ± 68.031 χ^2/NDF : 84.3/57

Out: -15.806 ± 67.688 χ^2/NDF : 65.9/61

All: -93.678 ± 47.983 χ^2/NDF : 152.8/119

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 546.597 $\pm$ 0.090 χ^2 /NDF: 2488087.9/34

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 563.125 $\pm$ 0.094 χ^2 /NDF: 3181943.9/36

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

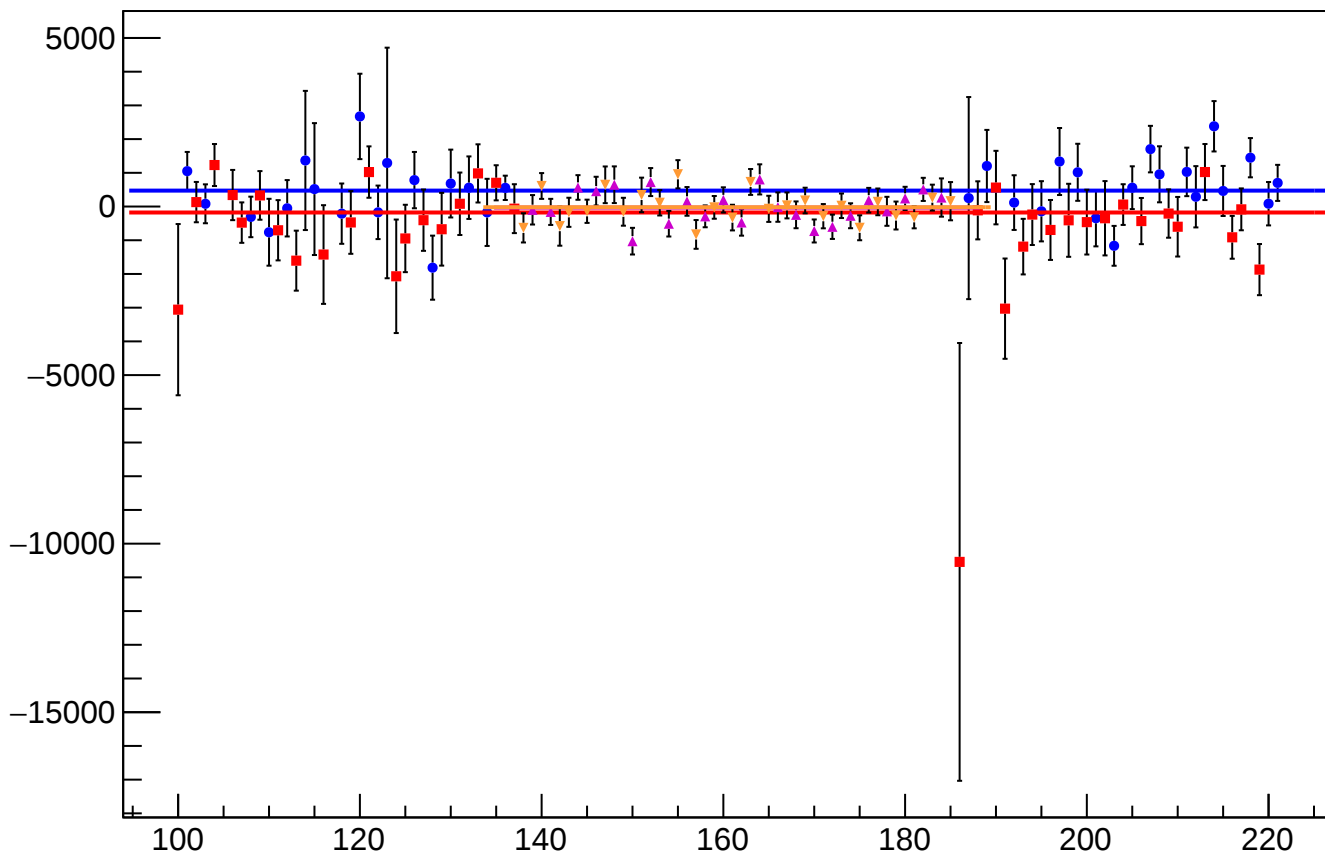
Right: 554.461 $\pm$ 0.065 χ^2 /NDF: 5686133.0/71

In: 395.044 $\pm$ 0.048 χ^2 /NDF: 6873528.1/57

Out: 393.570 $\pm$ 0.048 χ^2 /NDF: 8026952.2/61

All: 394.303 $\pm$ 0.034 χ^2 /NDF: 14900952.3/118

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 472.360+/-128.219 χ^2/NDF : 41.1/34

Left Out: -20.895+/-79.812 χ^2/NDF :27.2/24

Right Out: -176.972+/-134.650 χ^2/NDF : 38.7/36

Left In: -31.800+/-81.839 χ^2/NDF :34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

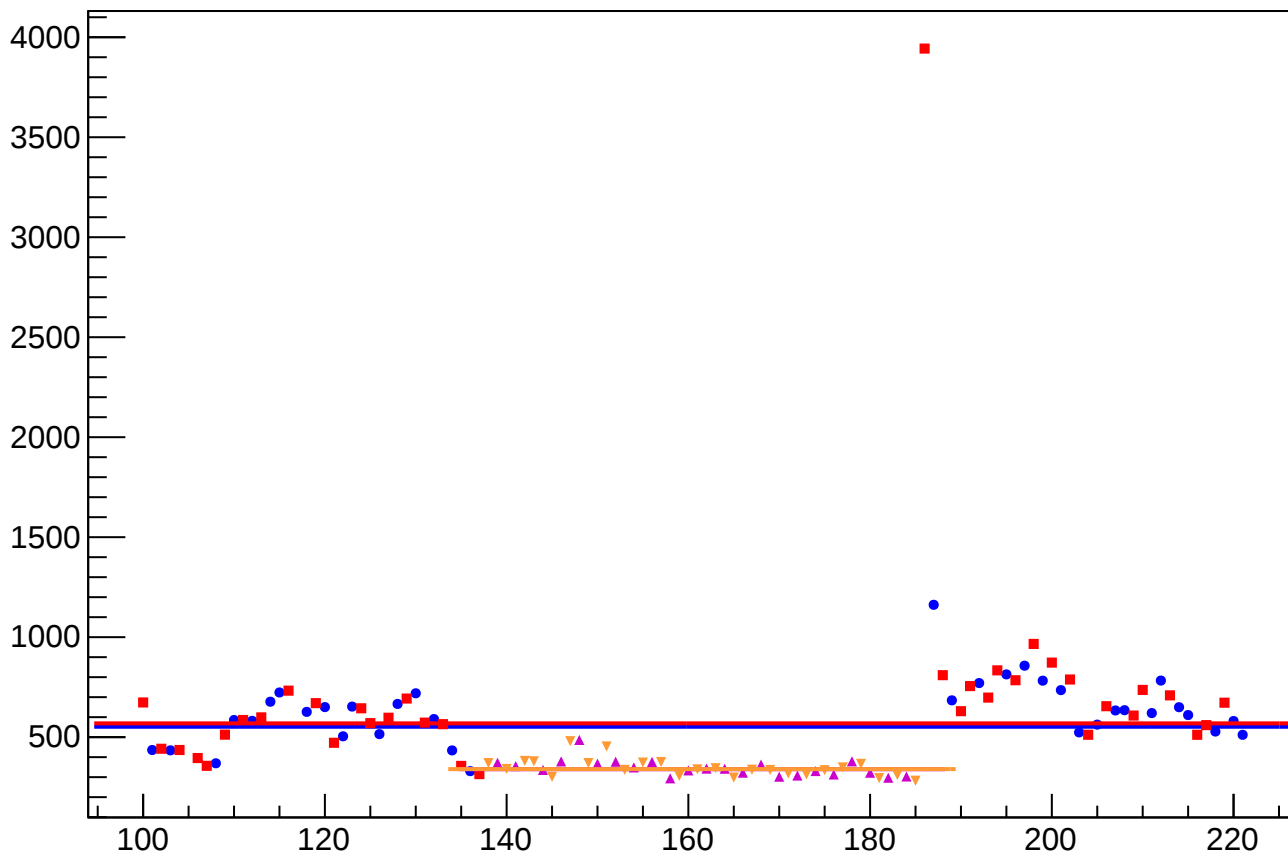
Right: 163.573+/-92.855 χ^2/NDF : 92.0/71

In: 114.140+/-68.985 χ^2/NDF :86.1/57

Out: -61.474+/-68.657 χ^2/NDF :66.9/61

All: 25.915+/-48.663 χ^2/NDF : 156.2/119

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 552.100 $\pm$ 0.091 χ^2 /NDF: 2419812.9/34

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 569.046 $\pm$ 0.095 χ^2 /NDF: 3109690.3/36

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

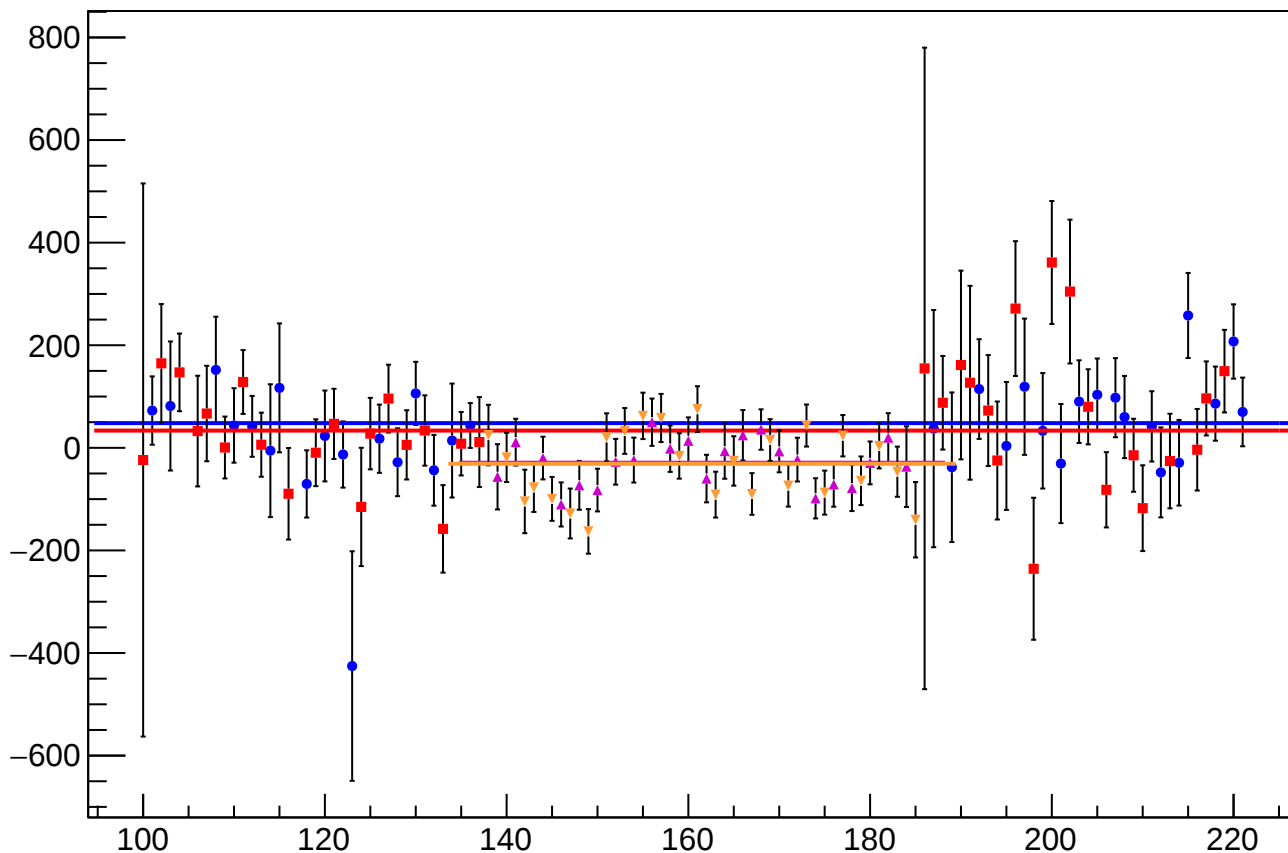
Right: 560.159 $\pm$ 0.066 χ^2 /NDF: 5546115.3/71

In: 401.128 $\pm$ 0.049 χ^2 /NDF: 6702120.8/57

Out: 399.725 $\pm$ 0.049 χ^2 /NDF: 7852157.8/61

All: 400.423 $\pm$ 0.034 χ^2 /NDF: 14554693.8/131

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 48.169+/-13.494 χ^2/NDF : 31.4/34

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 33.631+/-13.873 χ^2/NDF : 46.7/36

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

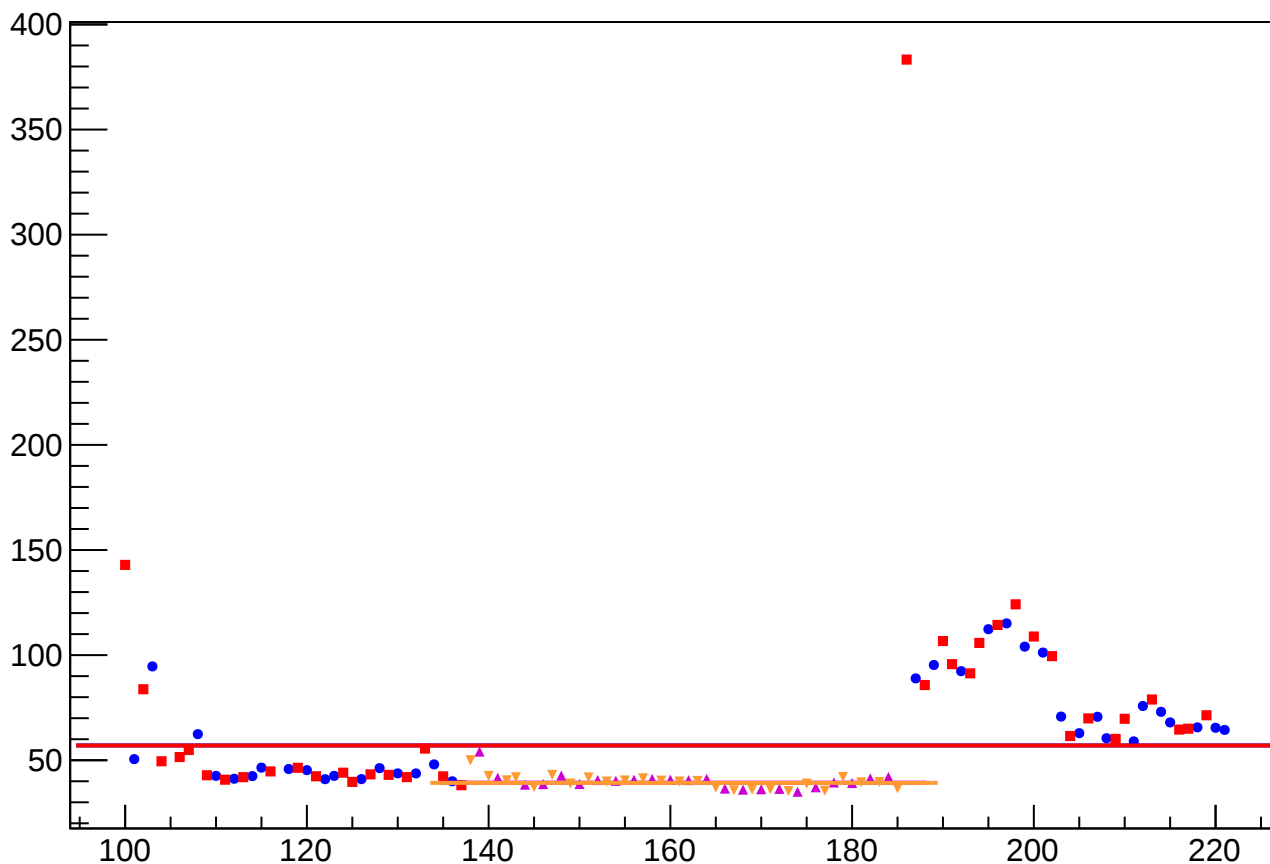
Right: 41.101+/-9.673 χ^2/NDF : 78.7/71

In: -3.647+/-7.740 χ^2/NDF : 75.8/57

Out: -11.392+/-7.650 χ^2/NDF : 114.4/61

All: -7.565+/-5.441 χ^2/NDF : 190.8/119

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 57.049 $\pm$ 0.010 χ^2 /NDF: 3617521.4/34

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 57.008 $\pm$ 0.010 χ^2 /NDF: 4634800.3/36

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

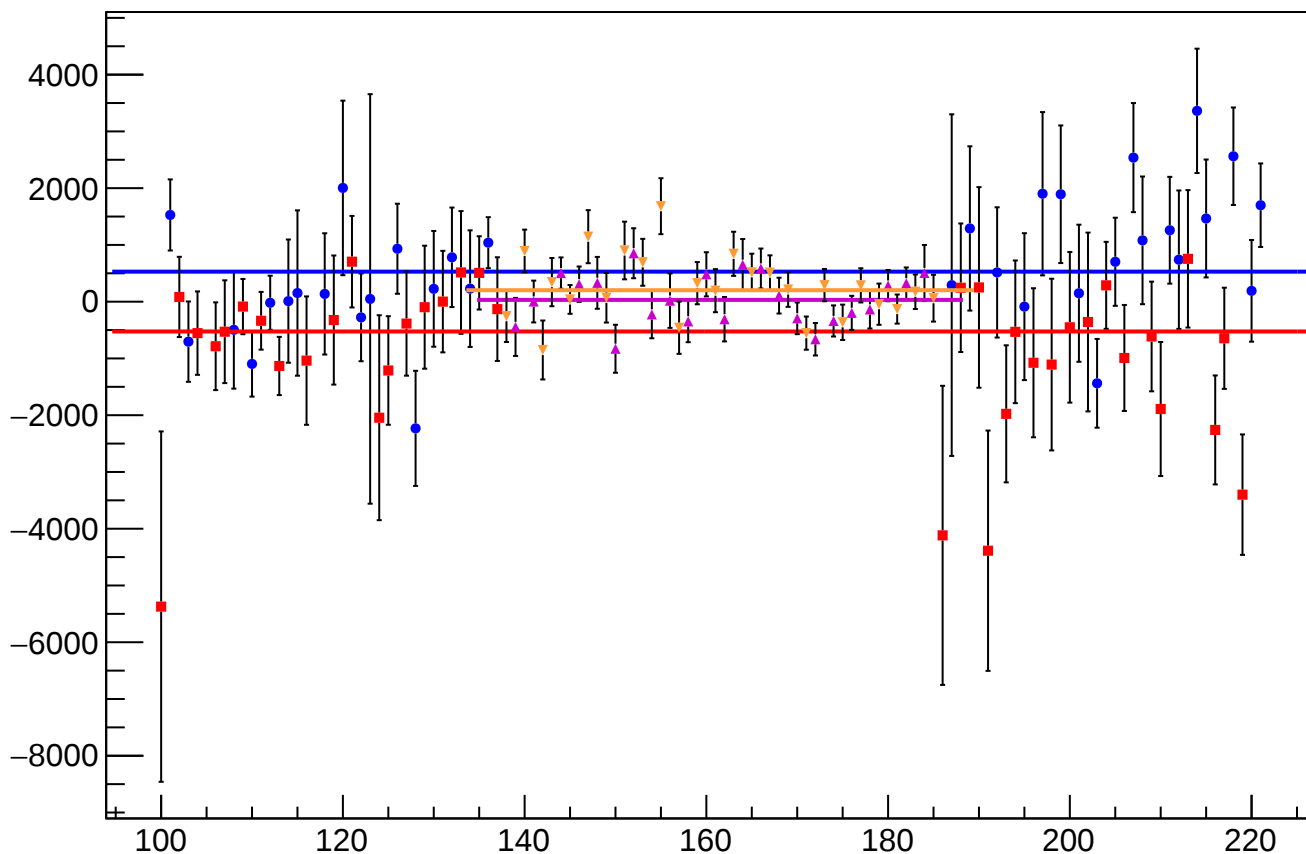
Right: 57.029 $\pm$ 0.007 χ^2 /NDF: 8252330.7/71

In: 45.165 $\pm$ 0.005 χ^2 /NDF: 6144776.6/57

Out: 44.639 $\pm$ 0.005 χ^2 /NDF: 7121252.8/61

All: 44.899 $\pm$ 0.004 χ^2 /NDF: 13270711.7/119

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 529.304 $\pm$ 149.143 χ^2 /NDF: 57.7/34

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -524.734 $\pm$ 150.249 χ^2 /NDF: 35.8/36

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

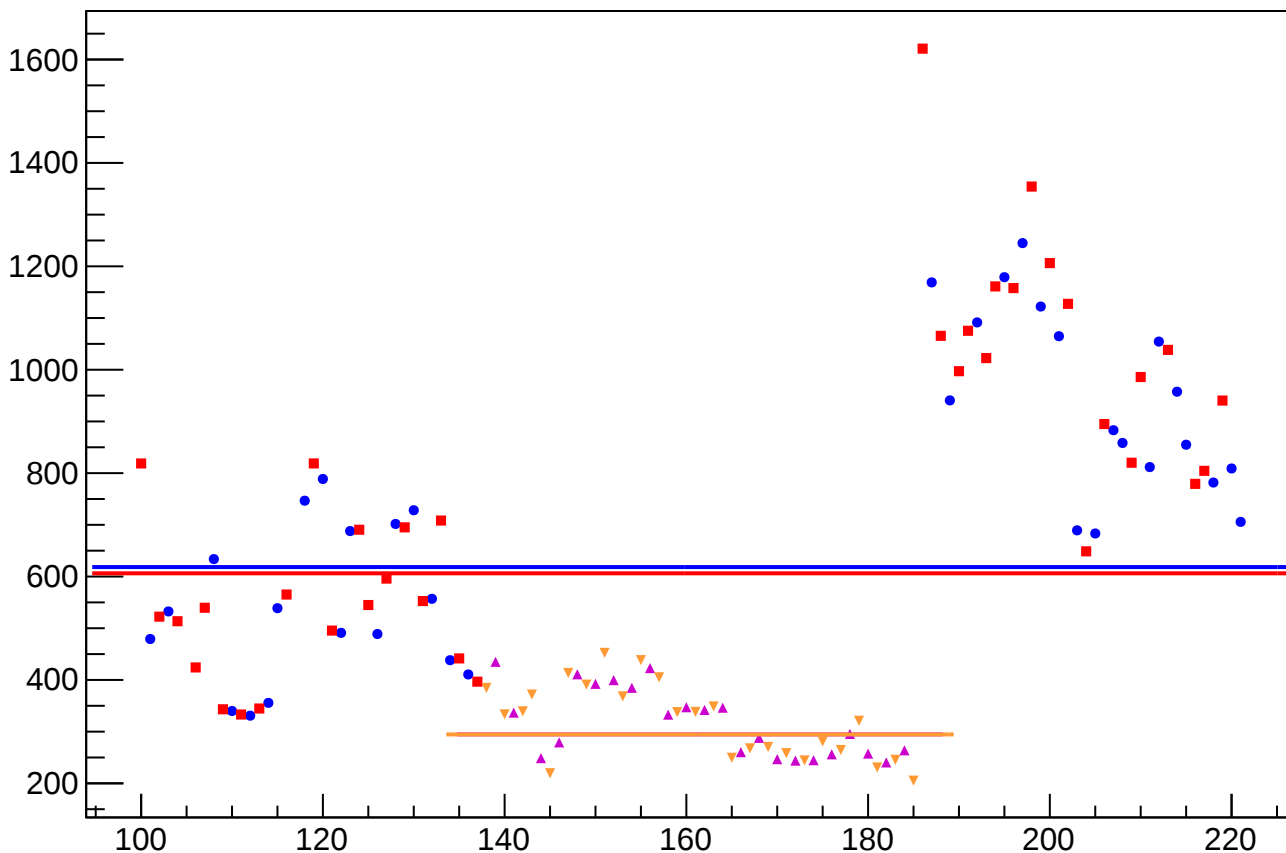
Right: 6.180 $\pm$ 105.849 χ^2 /NDF: 118.2/71

In: 125.840 $\pm$ 64.913 χ^2 /NDF:100.1/57

Out: 71.396 $\pm$ 63.768 χ^2 /NDF:99.8/61

All: 98.134 $\pm$ 45.490 χ^2 /NDF: 200.2/119

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 618.316+/-0.105 χ^2/NDF : 5122911.5/34

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 606.236+/-0.106 χ^2/NDF : 6306200.5/36

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

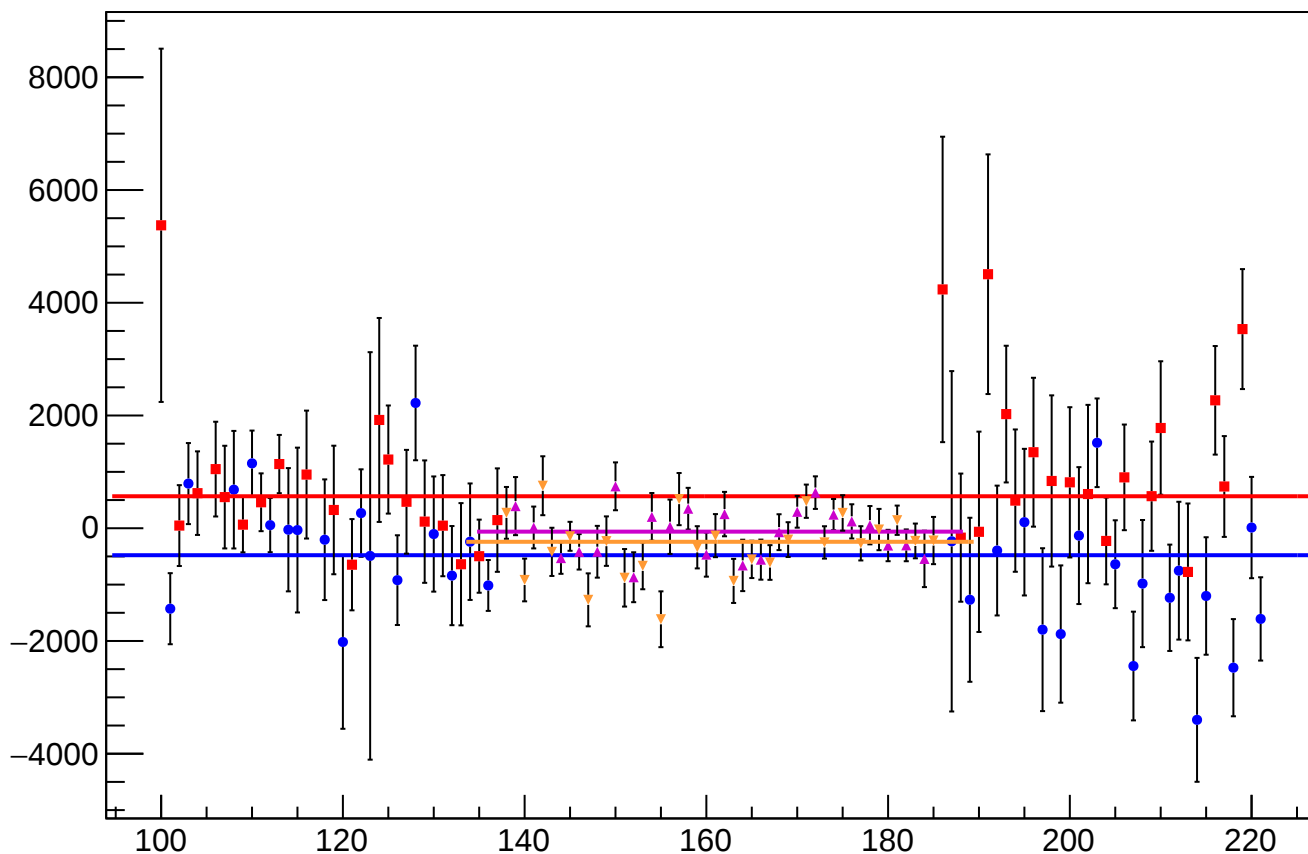
Right: 612.321+/-0.075 χ^2/NDF : 11435624.0/71

In: 356.021+/-0.046 χ^2/NDF : 14051827.7/57

Out: 350.728+/-0.045 χ^2/NDF : 15041244.9/61

All: 353.328+/-0.032 χ^2/NDF : 29099840.2/111

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -478.390 ± 149.943 $\chi^2/\text{NDF}: 56.9/34$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 567.422 ± 151.531 $\chi^2/\text{NDF}: 35.7/36$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

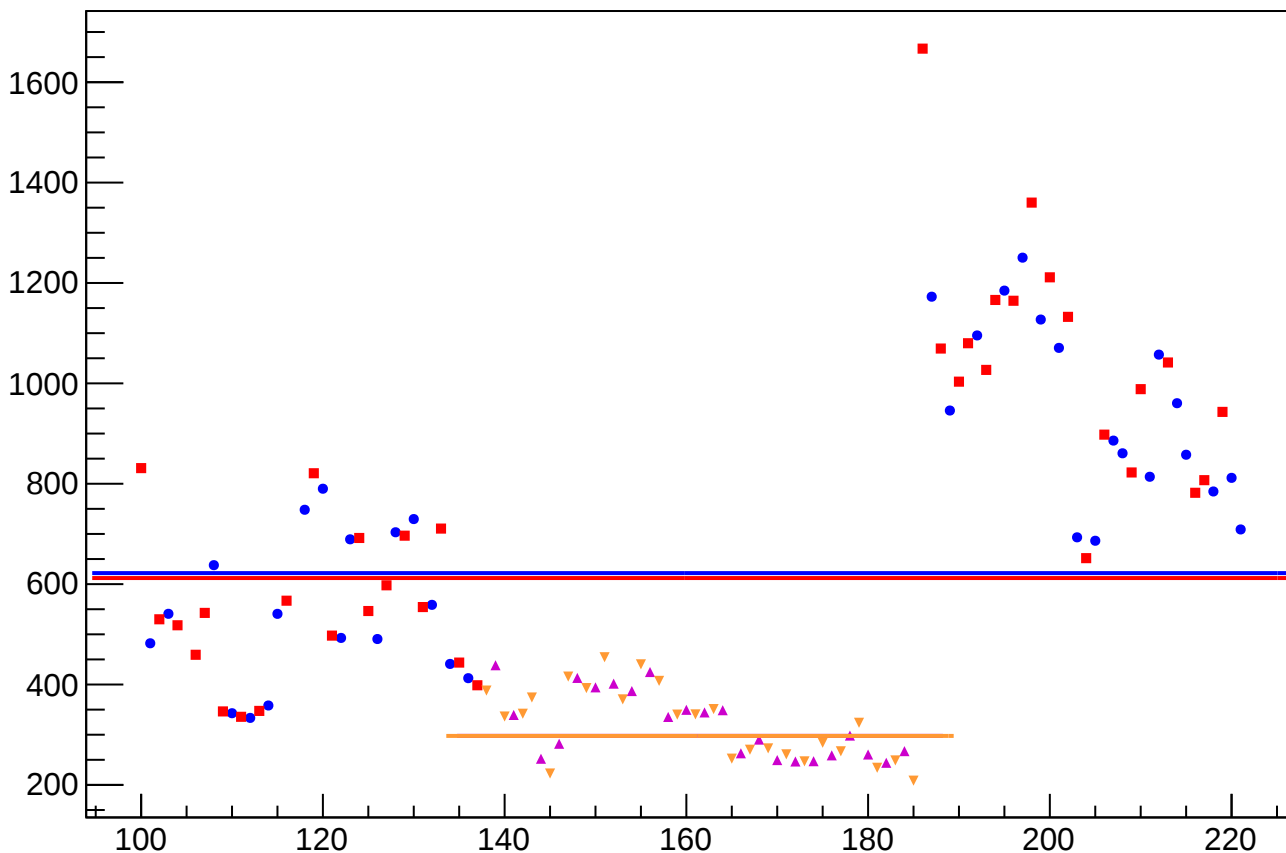
Right: 39.006 ± 106.583 $\chi^2/\text{NDF}: 116.7/71$

In: -140.058 ± 65.481 $\chi^2/\text{NDF}: 94.1/57$

Out: -94.605 ± 64.367 $\chi^2/\text{NDF}: 101.9/61$

All: -116.942 ± 45.903 $\chi^2/\text{NDF}: 196.3/119$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 621.967 $\pm$ 0.106 χ^2 /NDF: 5087952.4/34

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF: 1637757.8/24

Right Out: 612.130 $\pm$ 0.107 χ^2 /NDF: 6225842.4/36

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

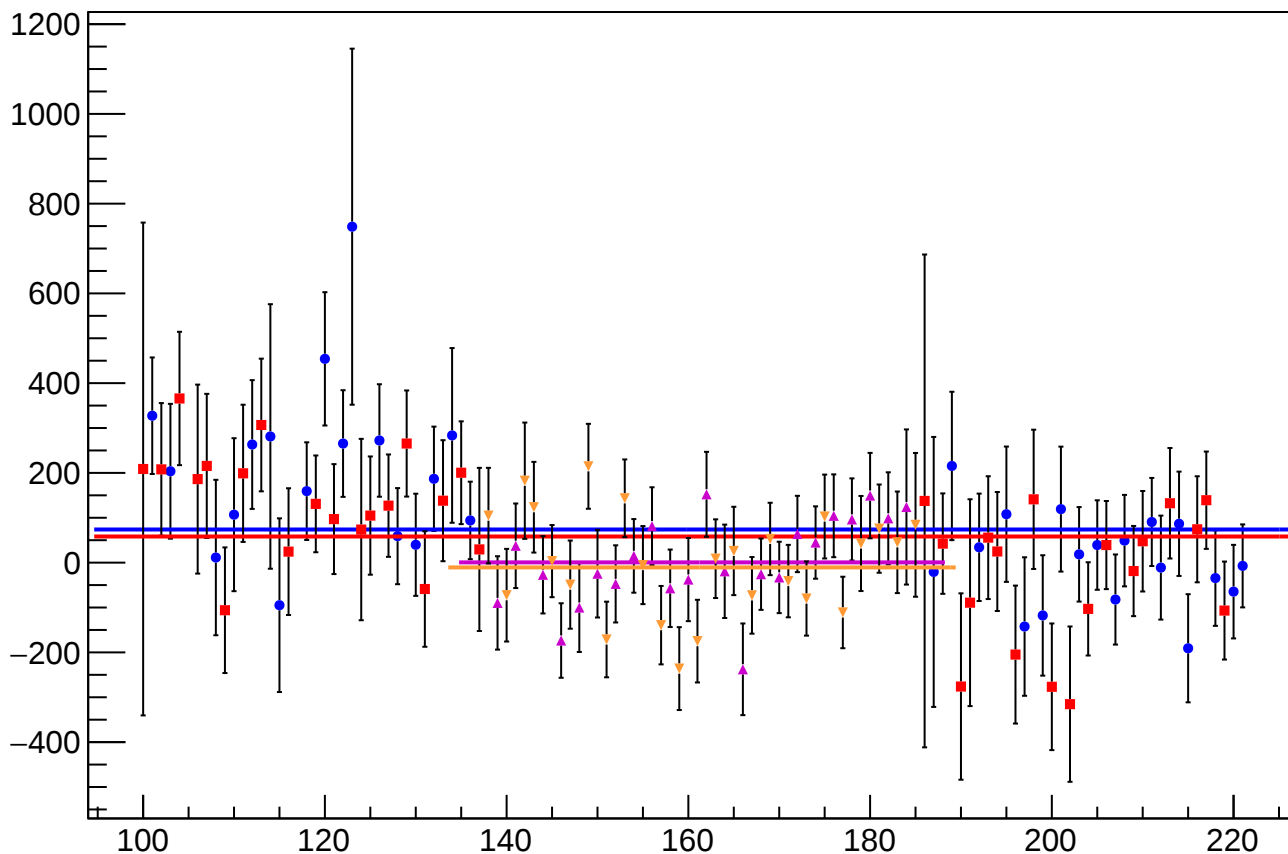
Right: 617.100 $\pm$ 0.075 χ^2 /NDF: 11318054.1/71

In: 359.540 $\pm$ 0.046 χ^2 /NDF: 13924178.6/57

Out: 354.363 $\pm$ 0.046 χ^2 /NDF: 14925080.3/61

All: 356.907 $\pm$ 0.032 χ^2 /NDF: 28855618.0/118

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 73.866 $\pm$ 21.115 χ^2 /NDF: 42.1/34

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 58.254 $\pm$ 22.168 χ^2 /NDF: 41.6/36

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

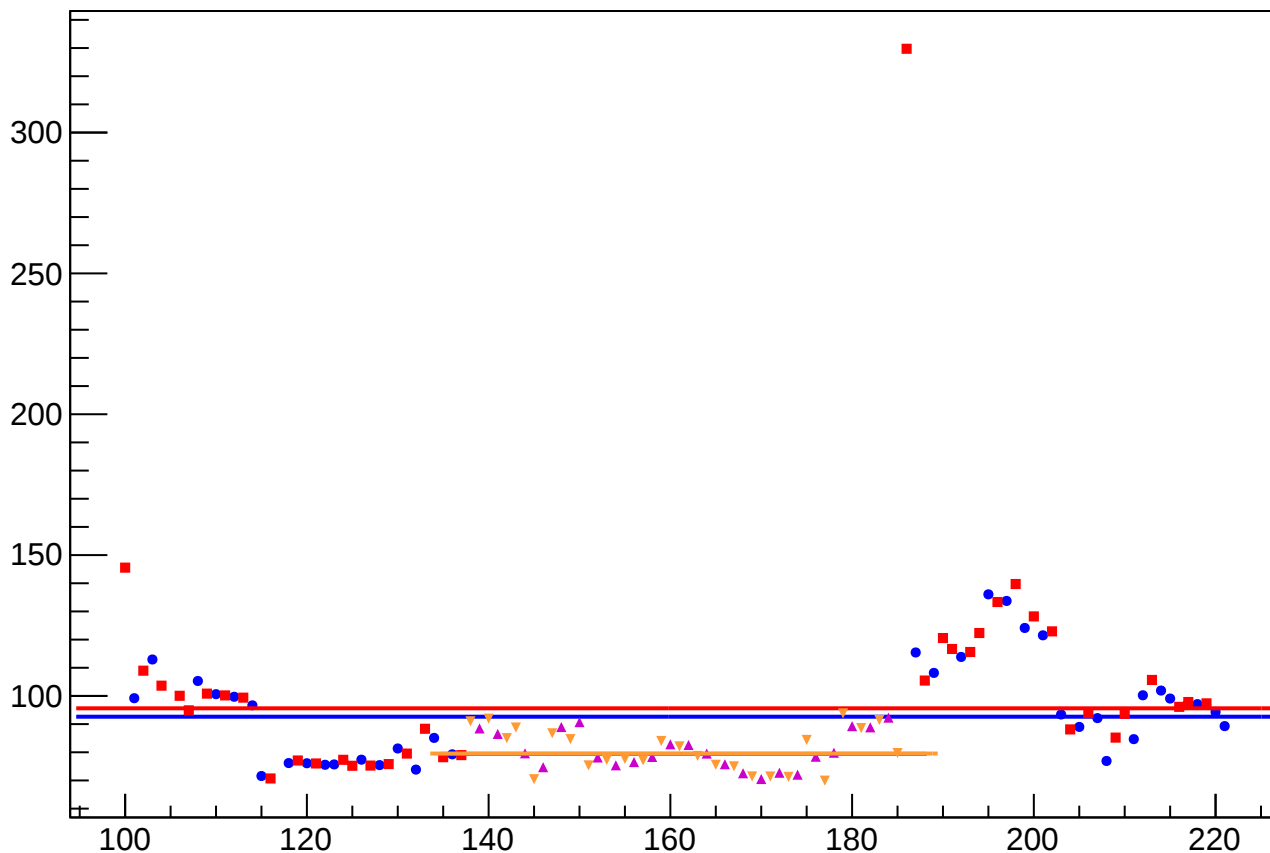
Right: 66.439 $\pm$ 15.289 χ^2 /NDF: 83.9/71

In: 33.540 $\pm$ 14.161 χ^2 /NDF:72.5/57

Out: 17.825 $\pm$ 14.253 χ^2 /NDF:83.6/61

All: 25.733 $\pm$ 10.046 χ^2 /NDF: 156.7/119

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.631+/-0.015 χ^2/NDF : 1098371.5/34

Left Out: 79.551+/-0.013 χ^2/NDF : 309075.2/24

Right Out: 95.608+/-0.016 χ^2/NDF : 1536787.7/36

Left In: 79.436+/-0.013 χ^2/NDF : 212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

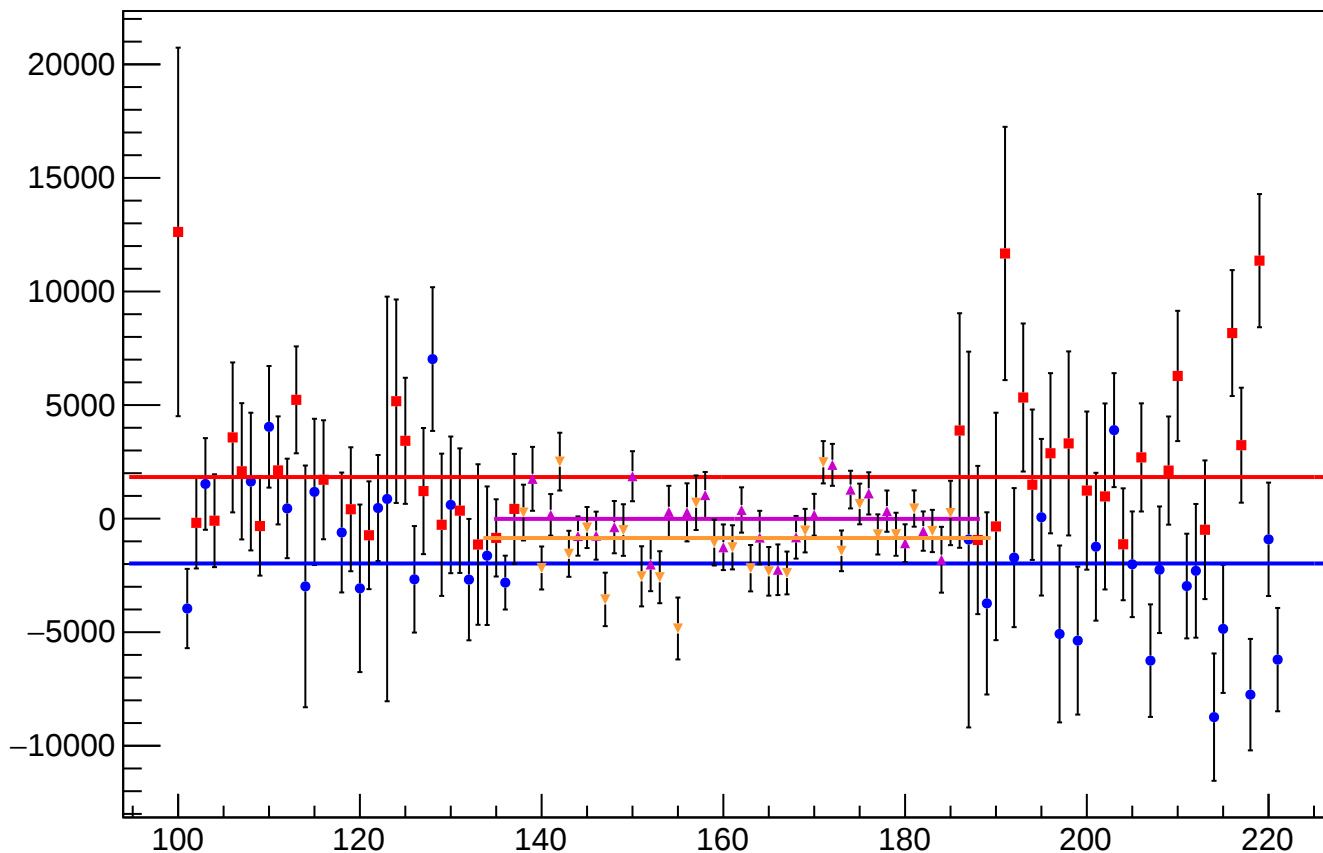
Right: 94.047+/-0.011 χ^2/NDF : 2654070.5/71

In: 85.371+/-0.010 χ^2/NDF : 1740491.9/57

Out: 86.189+/-0.010 χ^2/NDF : 2461387.9/61

All: 85.777+/-0.007 χ^2/NDF : 4205193.3/119

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1974.379 ± 440.185 $\chi^2/\text{NDF}: 51.1/34$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1830.561 ± 461.645 $\chi^2/\text{NDF}: 40.0/36$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

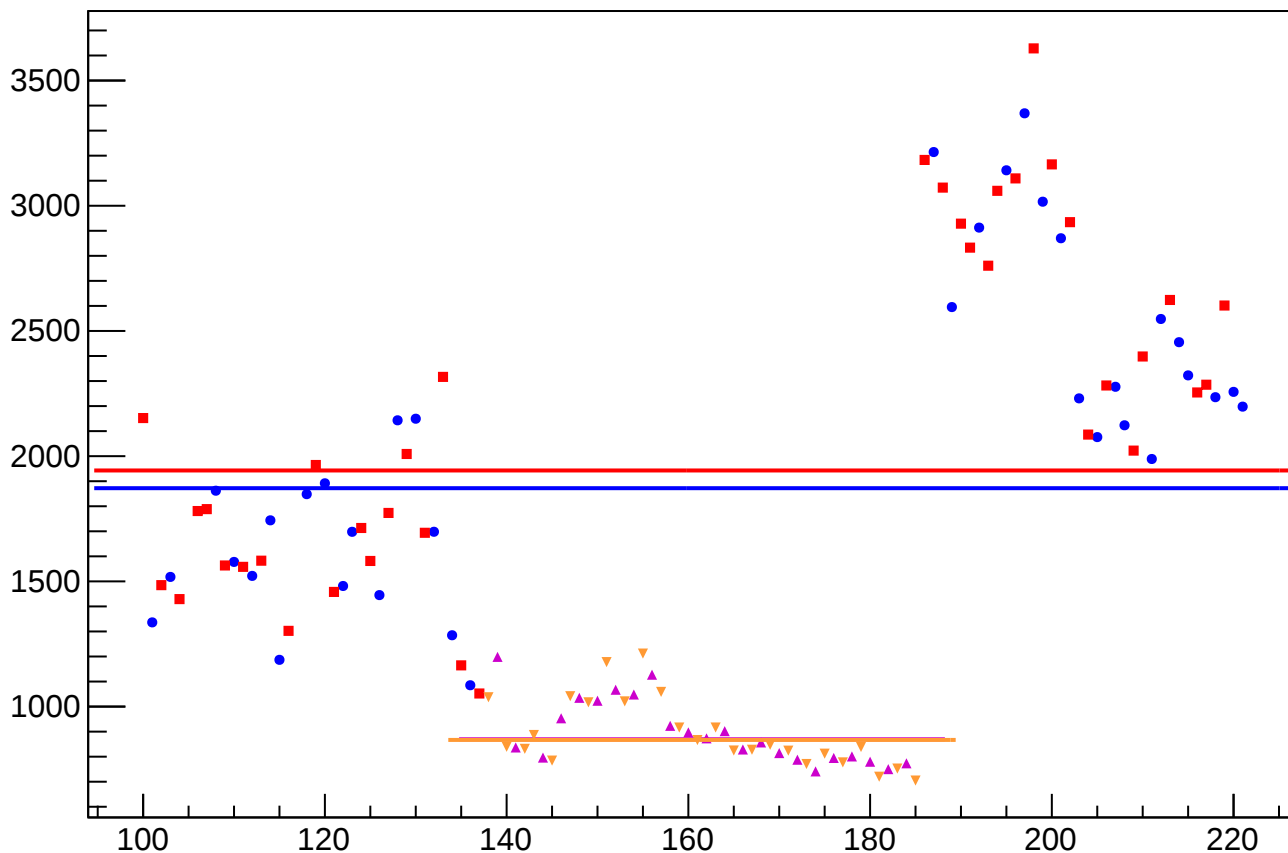
Right: -162.398 ± 318.574 $\chi^2/\text{NDF}: 126.7/71$

In: -375.778 ± 189.590 $\chi^2/\text{NDF}: 98.5/57$

Out: -415.203 ± 186.662 $\chi^2/\text{NDF}: 124.2/61$

All: -395.797 ± 133.013 $\chi^2/\text{NDF}: 222.8/119$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1872.141+/-0.311 χ^2/NDF : 3392763.2/34

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1942.895+/-0.326 χ^2/NDF : 3508152.8/36

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

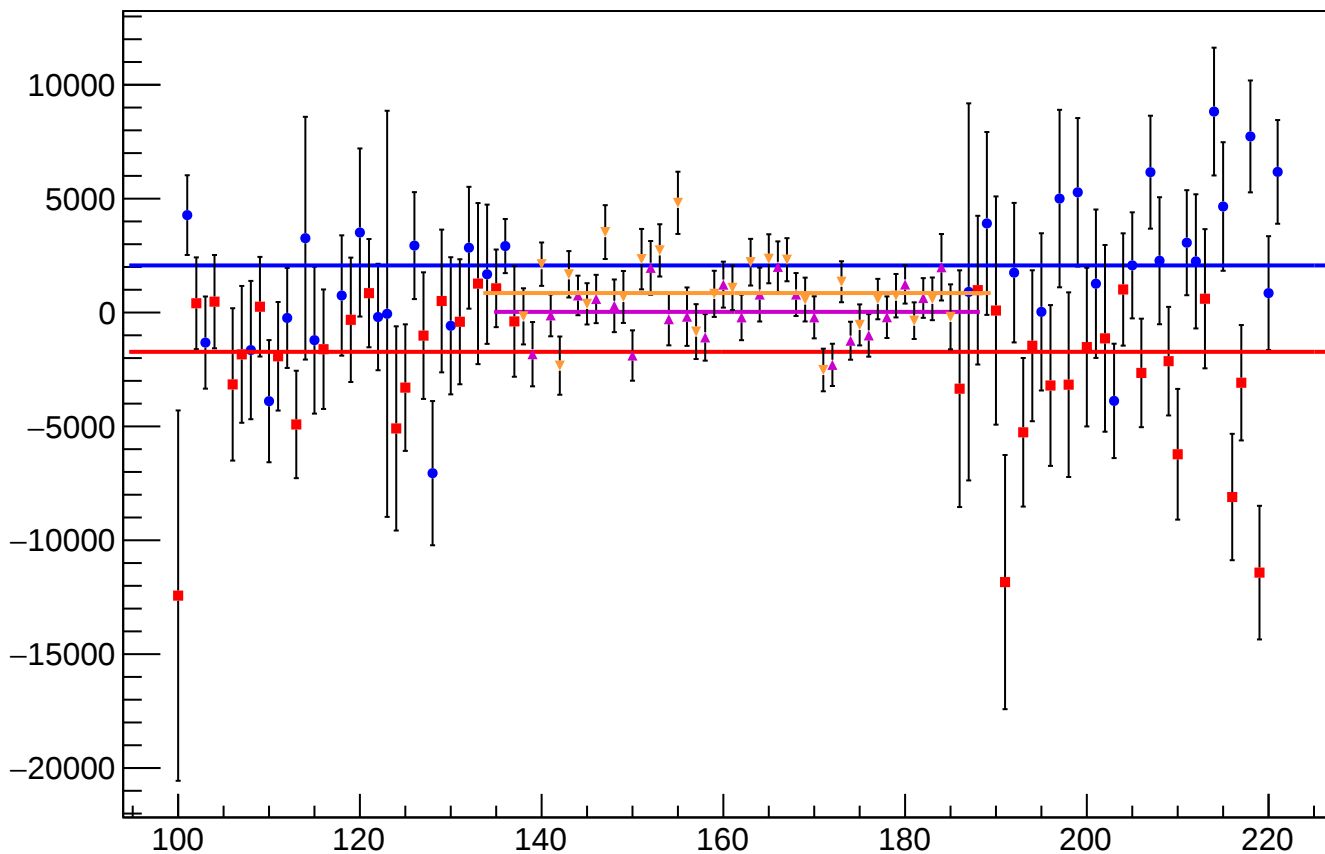
Right: 1905.835+/-0.225 χ^2/NDF : 6925523.1/71

In: 1055.552+/-0.134 χ^2/NDF : 12425480.9/57

Out: 1042.811+/-0.132 χ^2/NDF : 13258731.2/61

All: 1049.082+/-0.094 χ^2/NDF : 25688798.1/13

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 2068.012 $\pm$ 440.873 χ^2 /NDF: 50.4/34

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1726.044 $\pm$ 462.454 χ^2 /NDF: 40.3/36

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF:29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

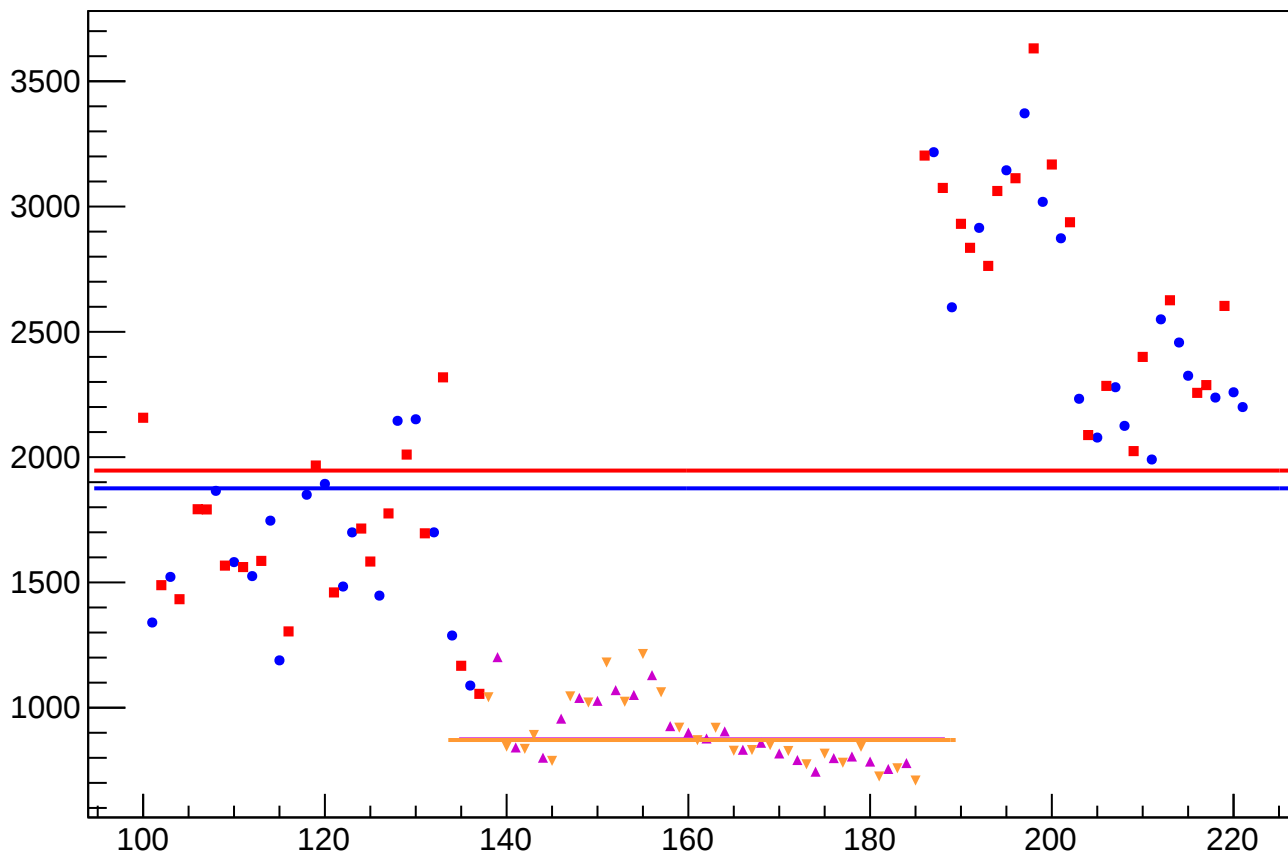
Right: 261.576 $\pm$ 319.101 χ^2 /NDF: 126.0/71

In: 408.738 $\pm$ 190.350 χ^2 /NDF:97.6/57

Out: 431.505 $\pm$ 187.448 χ^2 /NDF:120.4/61

All: 420.296 $\pm$ 133.560 χ^2 /NDF: 218.0/119

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1875.474+/-0.312 χ^2/NDF : 3377746.6/34

Left Out: 871.109+/-0.145 χ^2/NDF : 651751.1/24

Right Out: 1946.389+/-0.327 χ^2/NDF : 3497418.8/36

Left In: 873.675+/-0.149 χ^2/NDF : 573822.5/22

Left: 872.355+/-0.104 χ^2/NDF : 1225725.6/47

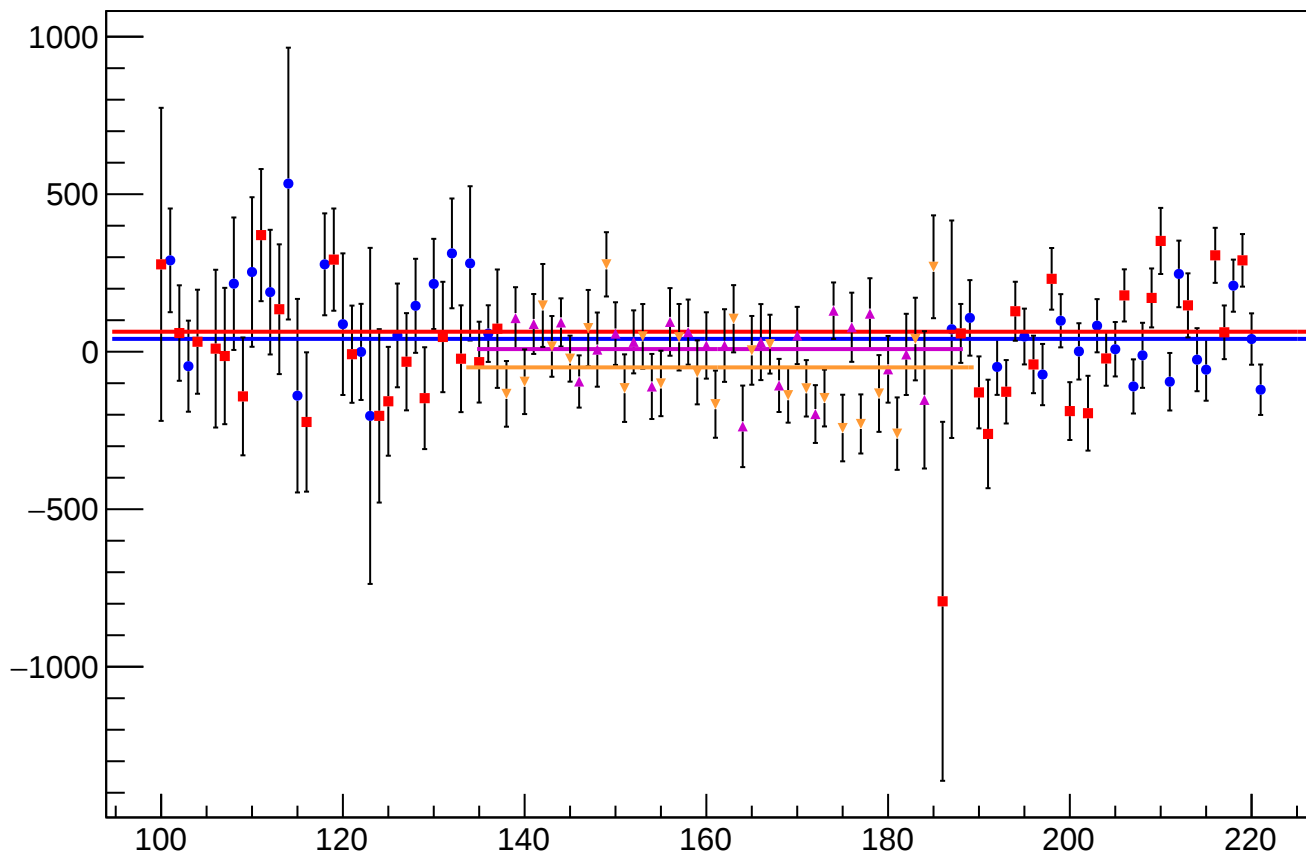
Right: 1909.238+/-0.226 χ^2/NDF : 6899803.0/71

In: 1060.425+/-0.135 χ^2/NDF : 12353281.0/57

Out: 1047.771+/-0.133 χ^2/NDF : 13185442.5/61

All: 1054.001+/-0.094 χ^2/NDF : 25543210.7/13

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 40.728 ± 19.436 $\chi^2/\text{NDF}: 37.0/34$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 63.474 ± 20.292 $\chi^2/\text{NDF}: 70.0/36$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

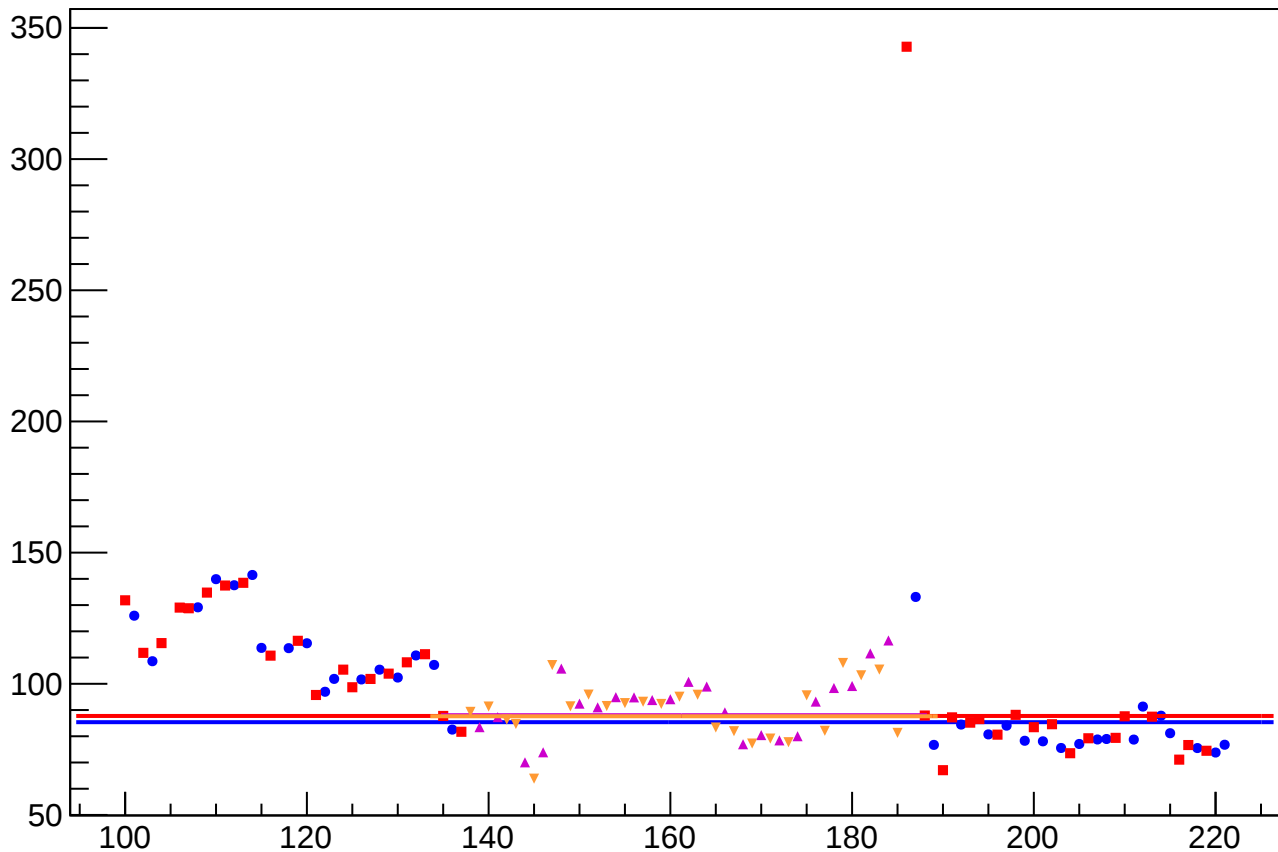
Right: 51.611 ± 14.036 $\chi^2/\text{NDF}: 107.6/71$

In: 25.992 ± 14.349 $\chi^2/\text{NDF}: 60.2/57$

Out: 7.677 ± 14.449 $\chi^2/\text{NDF}: 124.7/61$

All: 16.899 ± 10.181 $\chi^2/\text{NDF}: 185.8/119$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 85.370 $\pm$ 0.014 χ^2 /NDF: 1070742.5/34

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 87.741 $\pm$ 0.014 χ^2 /NDF: 1553214.5/36

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

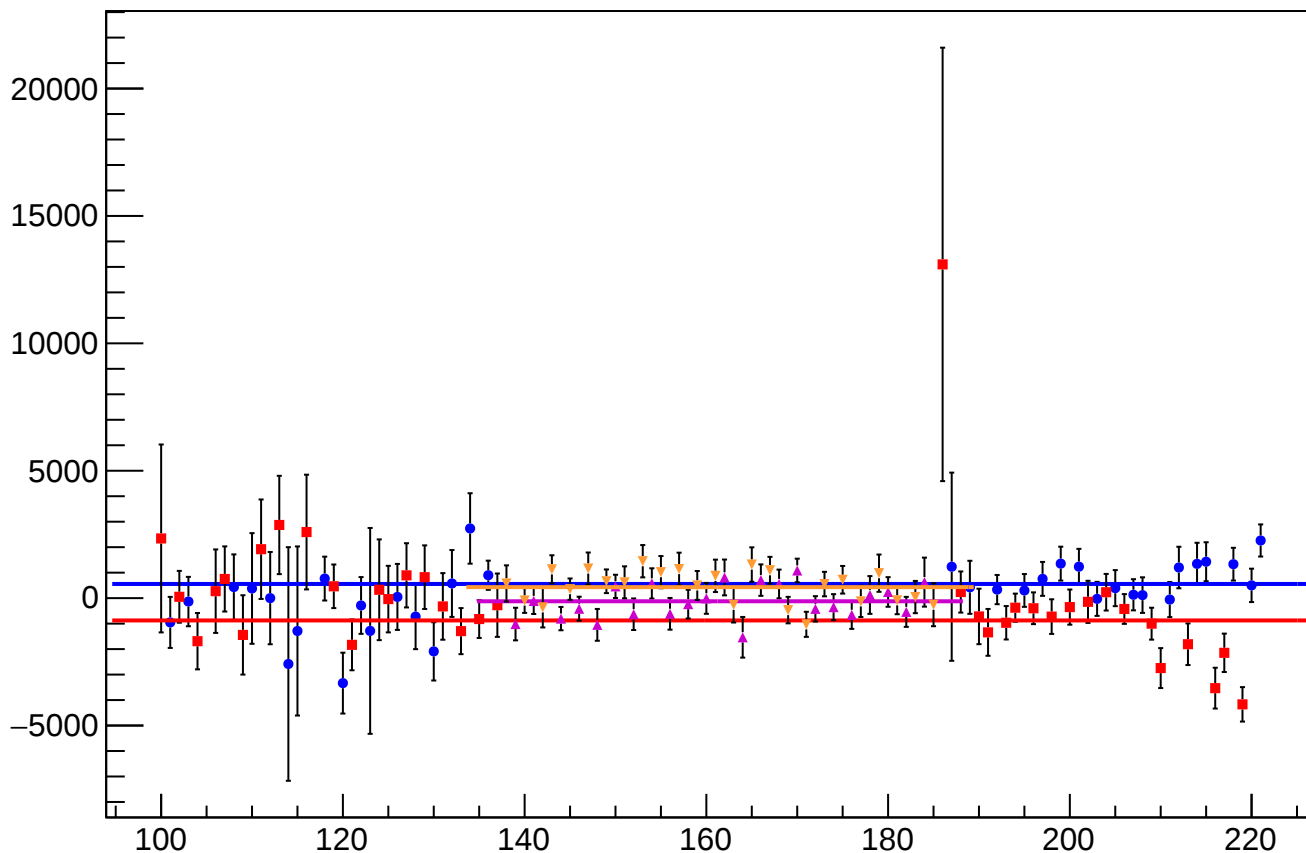
Right: 86.504 $\pm$ 0.010 χ^2 /NDF: 2638195.5/71

In: 86.581 $\pm$ 0.010 χ^2 /NDF: 1611528.3/57

Out: 87.684 $\pm$ 0.010 χ^2 /NDF: 2107936.9/61

All: 87.129 $\pm$ 0.007 χ^2 /NDF: 3725329.4/119

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 556.108 $\pm$ 143.741 χ^2 /NDF: 41.4/34

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -875.367 $\pm$ 146.998 χ^2 /NDF: 76.5/36

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

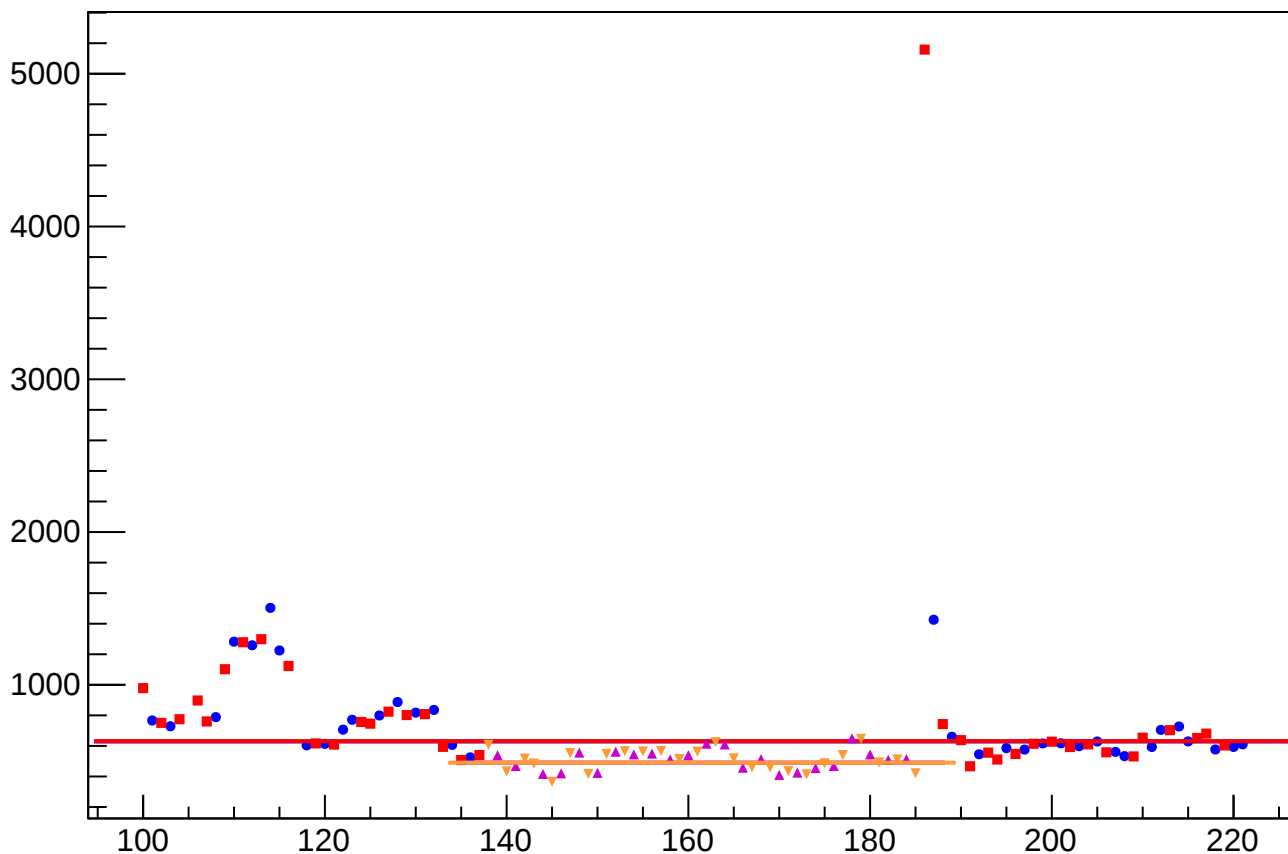
Right: -143.595 $\pm$ 102.772 χ^2 /NDF: 166.4/71

In: 152.743 $\pm$ 91.595 χ^2 /NDF:83.9/57

Out: -68.345 $\pm$ 90.919 χ^2 /NDF:155.8/61

All: 41.381 $\pm$ 64.527 χ^2 /NDF: 242.6/119

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 629.496 $\pm$ 0.102 χ^2 /NDF: 1250041.8/34

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 631.053 $\pm$ 0.104 χ^2 /NDF: 2052216.7/36

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

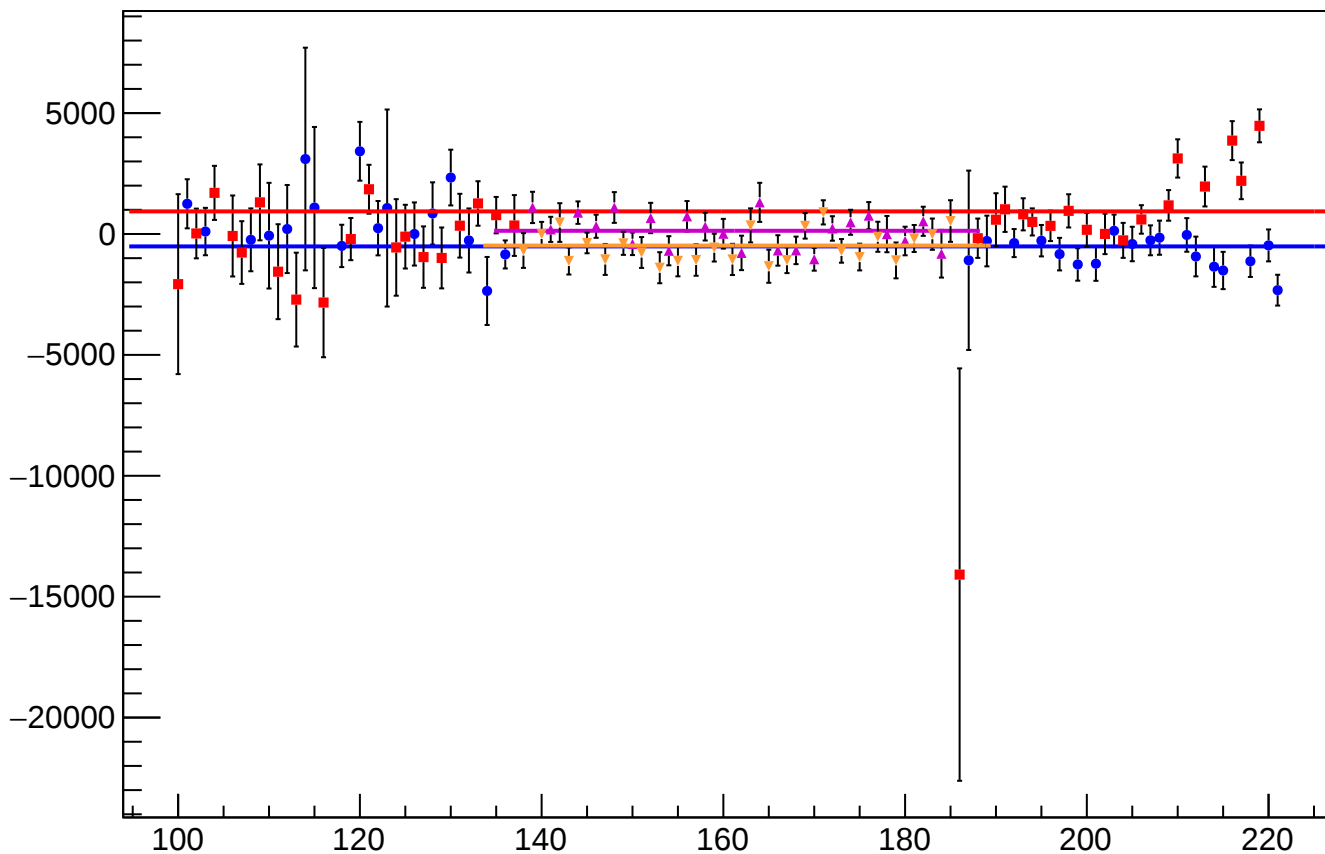
Right: 630.257 $\pm$ 0.073 χ^2 /NDF: 3302373.1/71

In: 547.183 $\pm$ 0.065 χ^2 /NDF: 2943503.9/57

Out: 544.125 $\pm$ 0.064 χ^2 /NDF: 3935226.7/61

All: 545.642 $\pm$ 0.046 χ^2 /NDF: 6879853.6/119

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -513.821+/-145.204 χ^2/NDF : 41.5/34

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 934.825+/-148.600 χ^2/NDF : 85.3/36

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

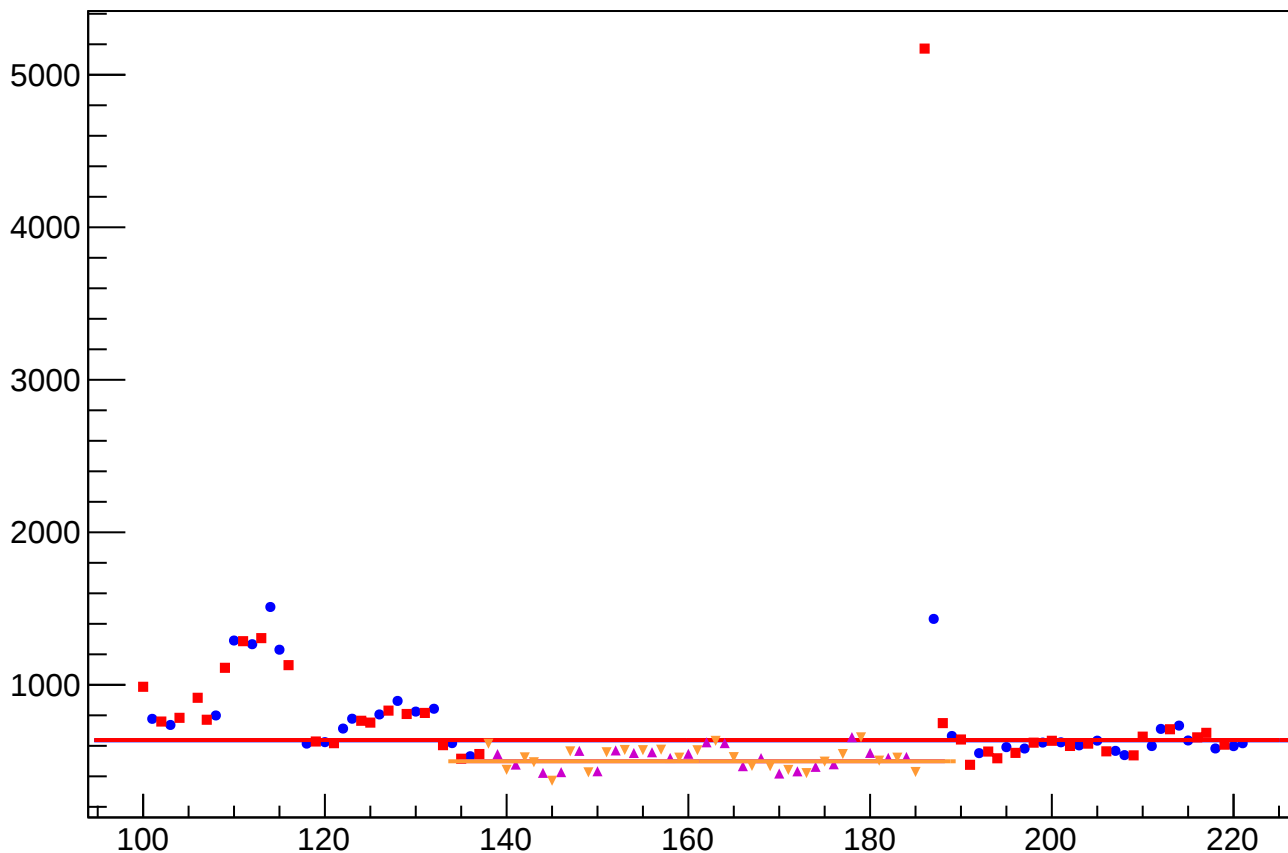
Right: 193.759+/-103.854 χ^2/NDF : 175.4/71

In: -132.006+/-92.895 χ^2/NDF : 82.8/57

Out: 66.301+/-92.245 χ^2/NDF : 168.7/61

All: -32.156+/-65.456 χ^2/NDF : 253.7/119

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 636.069+/-0.103 χ^2/NDF : 1238662.3/34

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 638.152+/-0.105 χ^2/NDF : 2030178.3/36

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

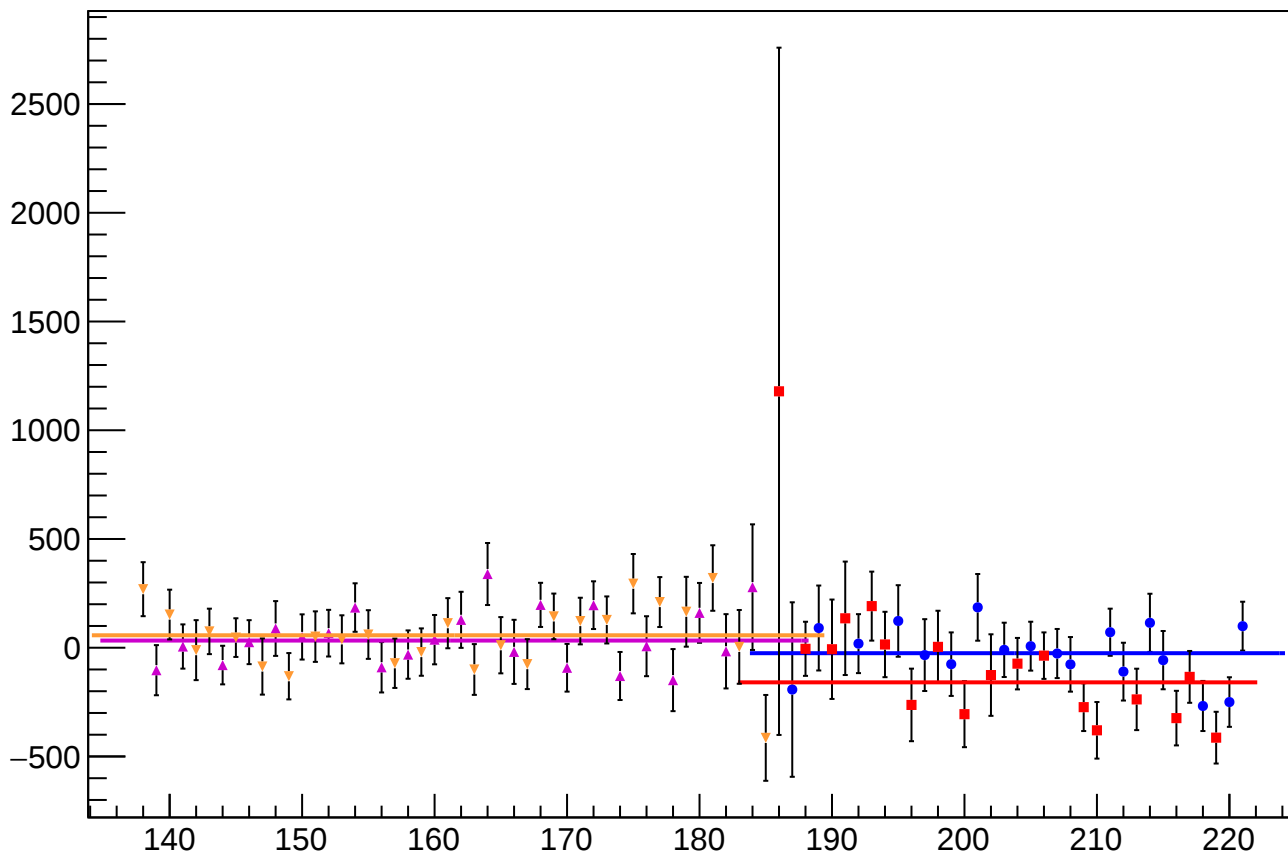
Right: 637.087+/-0.073 χ^2/NDF : 3269041.6/71

In: 555.333+/-0.066 χ^2/NDF : 2861933.6/57

Out: 552.470+/-0.065 χ^2/NDF : 3846262.7/61

All: 553.891+/-0.046 χ^2/NDF : 6709152.5/119

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.135 ± 31.313 χ^2/NDF : 15.6/17

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -159.212 ± 33.662 χ^2/NDF : 25.0/17

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

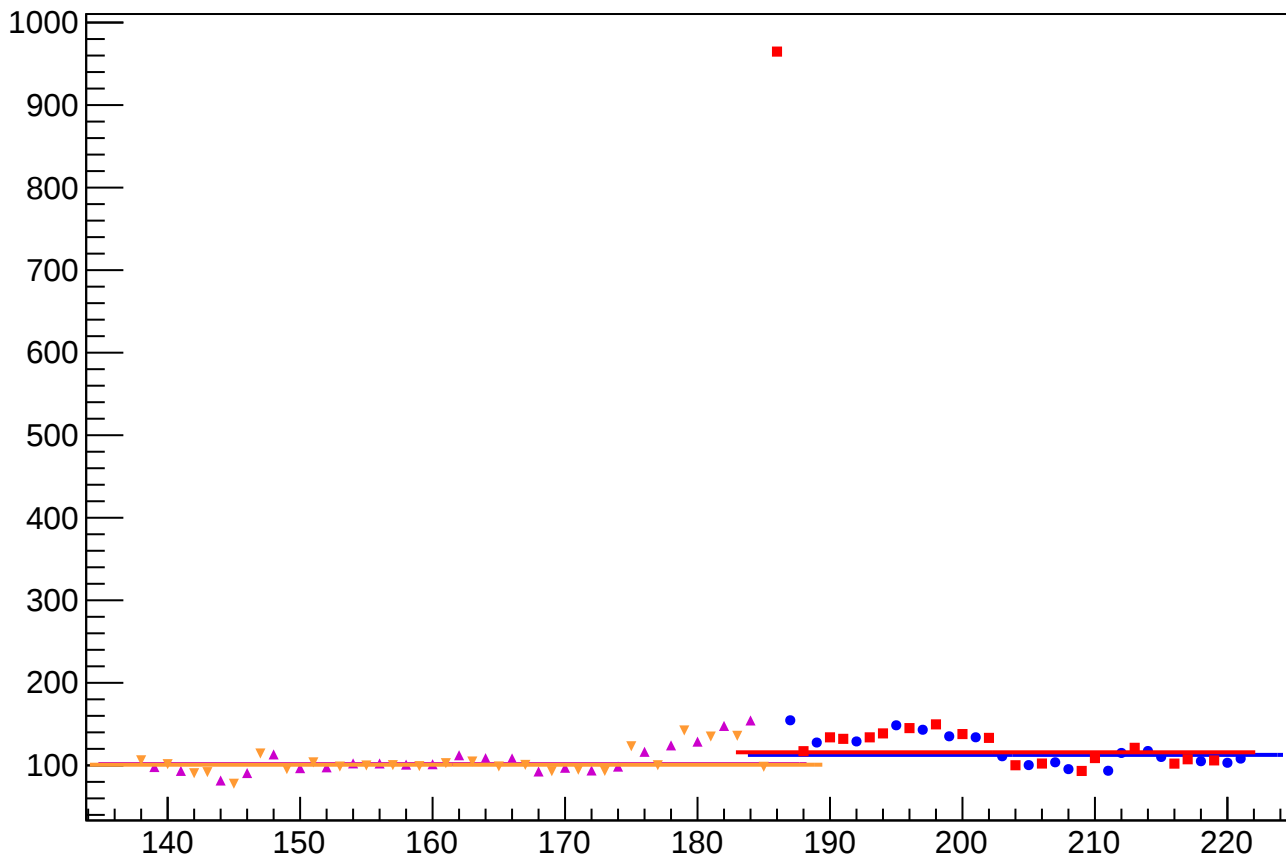
Right: -87.333 ± 22.927 χ^2/NDF : 49.1/35

In: 10.796 ± 19.338 χ^2/NDF : 41.4/40

Out: -14.571 ± 19.386 χ^2/NDF : 81.8/42

All: -1.856 ± 13.691 χ^2/NDF : 124.0/83

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 112.708 $\pm$ 0.022 χ^2 /NDF: 479641.0/17

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 115.835 $\pm$ 0.024 χ^2 /NDF: 1083551.3/17

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

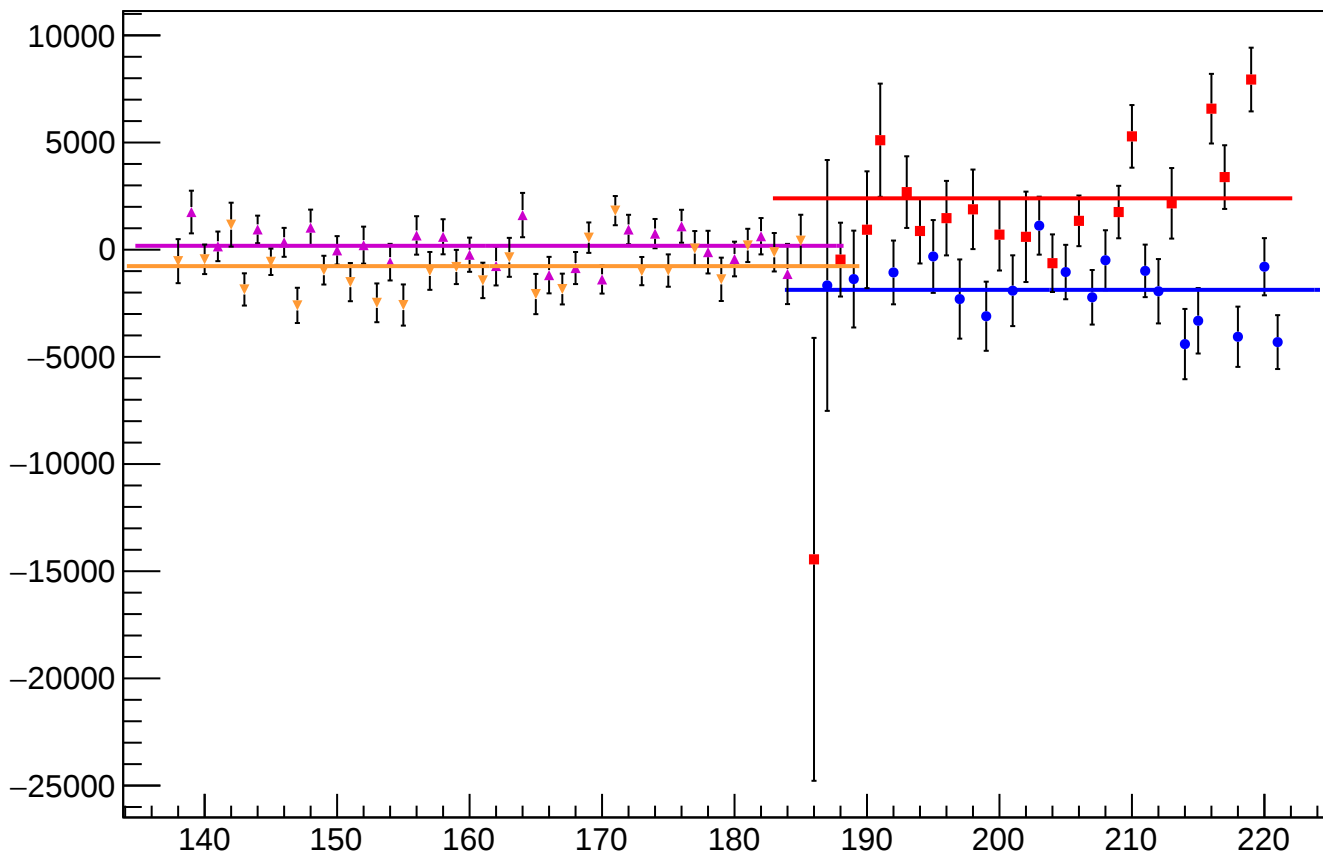
Right: 114.159 $\pm$ 0.016 χ^2 /NDF: 1572447.9/35

In: 105.850 $\pm$ 0.014 χ^2 /NDF: 1217047.8/40

Out: 105.787 $\pm$ 0.014 χ^2 /NDF: 1950705.2/42

All: 105.819 $\pm$ 0.010 χ^2 /NDF: 3167763.5/83

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1873.043 ± 354.118 $\chi^2/\text{NDF}: 18.8/17$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 2396.501 ± 386.877 $\chi^2/\text{NDF}: 40.9/17$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

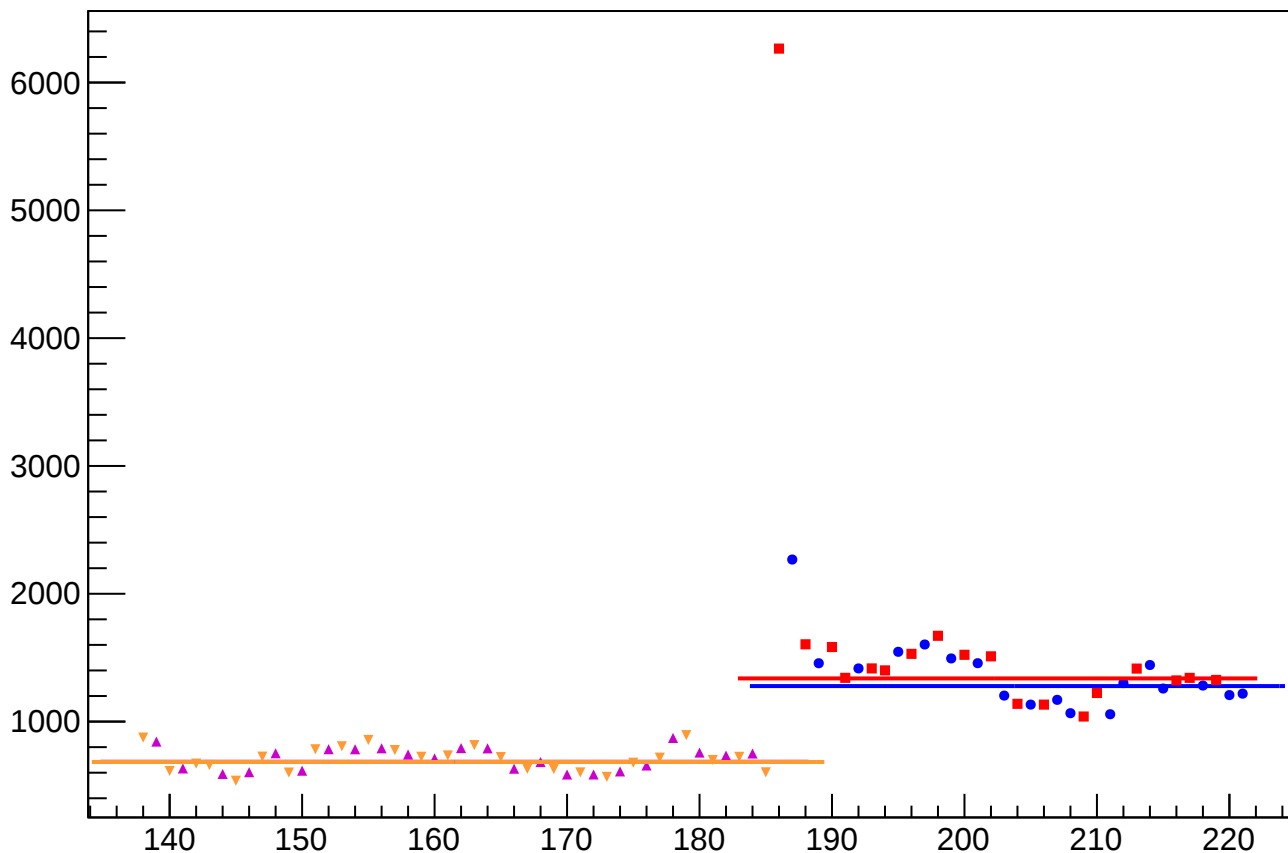
Right: 73.341 ± 261.214 $\chi^2/\text{NDF}: 126.1/35$

In: -187.368 ± 150.061 $\chi^2/\text{NDF}: 71.5/40$

Out: -299.135 ± 148.695 $\chi^2/\text{NDF}: 144.5/42$

All: -243.763 ± 105.623 $\chi^2/\text{NDF}: 216.2/83$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1277.738 $\pm$ 0.250 χ^2 /NDF: 446516.2/17

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1337.716 $\pm$ 0.274 χ^2 /NDF: 893571.0/17

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

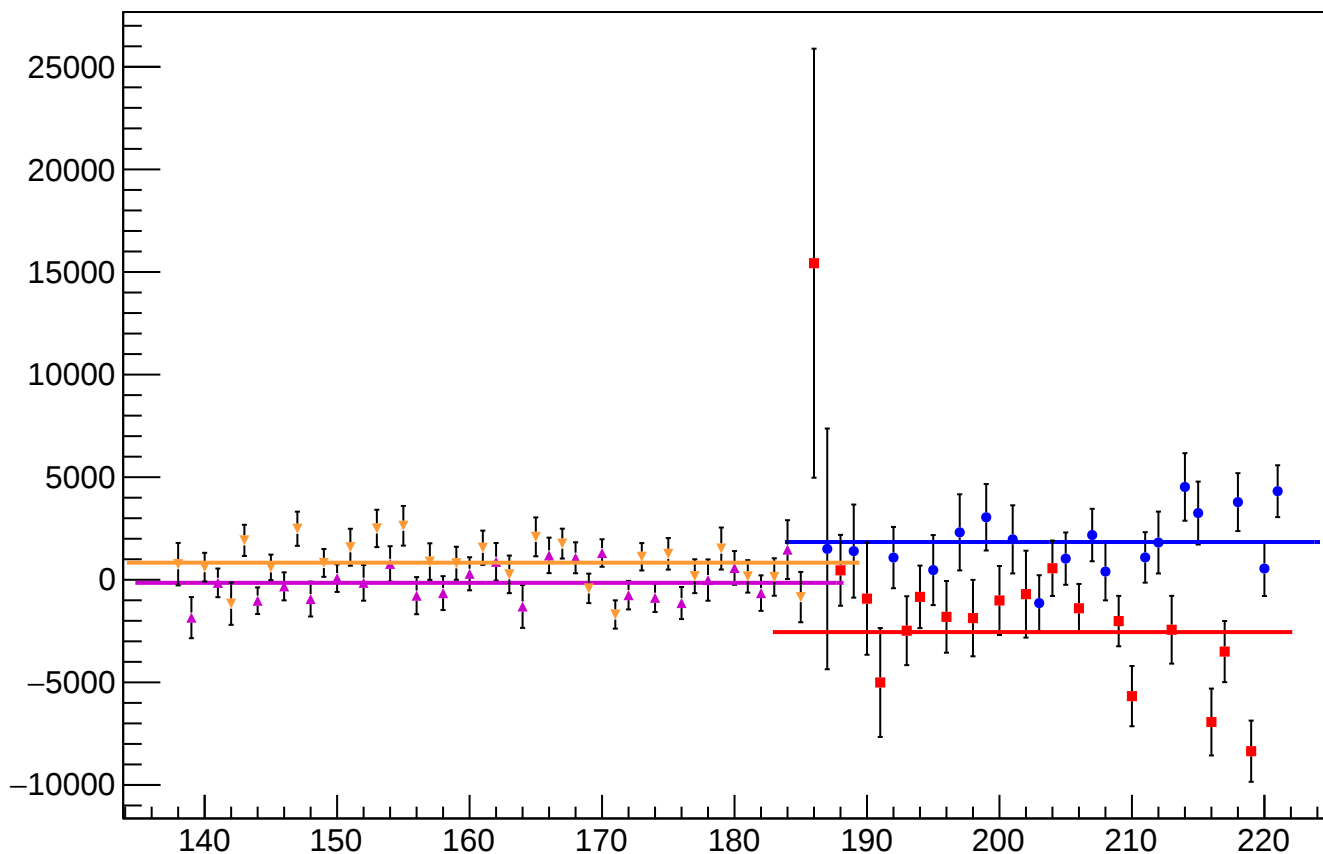
Right: 1305.081 $\pm$ 0.185 χ^2 /NDF: 1366242.6/35

In: 791.925 $\pm$ 0.106 χ^2 /NDF: 5563957.7/40

Out: 780.469 $\pm$ 0.105 χ^2 /NDF: 6429246.9/42

All: 786.145 $\pm$ 0.075 χ^2 /NDF: 11999085.7/83

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1840.598 ± 355.565 $\chi^2/\text{NDF}: 18.5/17$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -2549.542 ± 388.432 $\chi^2/\text{NDF}: 44.2/17$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

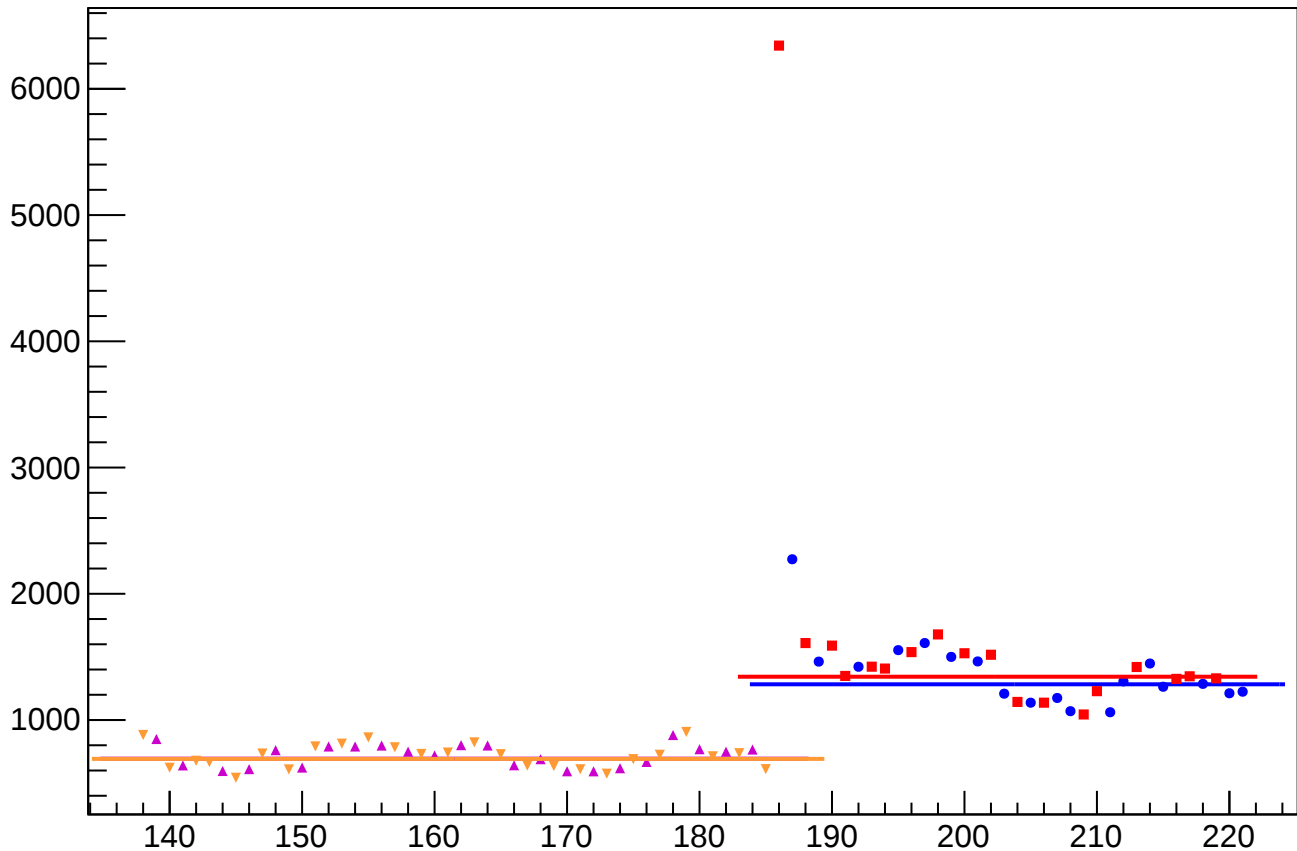
Right: -160.908 ± 262.273 $\chi^2/\text{NDF}: 132.1/35$

In: 213.001 ± 151.635 $\chi^2/\text{NDF}: 70.1/40$

Out: 327.059 ± 150.275 $\chi^2/\text{NDF}: 151.9/42$

All: 270.544 ± 106.738 $\chi^2/\text{NDF}: 222.3/83$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1282.968 $\pm$ 0.251 χ^2/NDF : 446940.2/17

Left Out: 692.097 $\pm$ 0.115 χ^2/NDF : 657259.6/24

Right Out: 1343.055 $\pm$ 0.275 χ^2/NDF : 896057.7/17

Left In: 693.867 $\pm$ 0.119 χ^2/NDF : 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2/NDF : 1179427.7/47

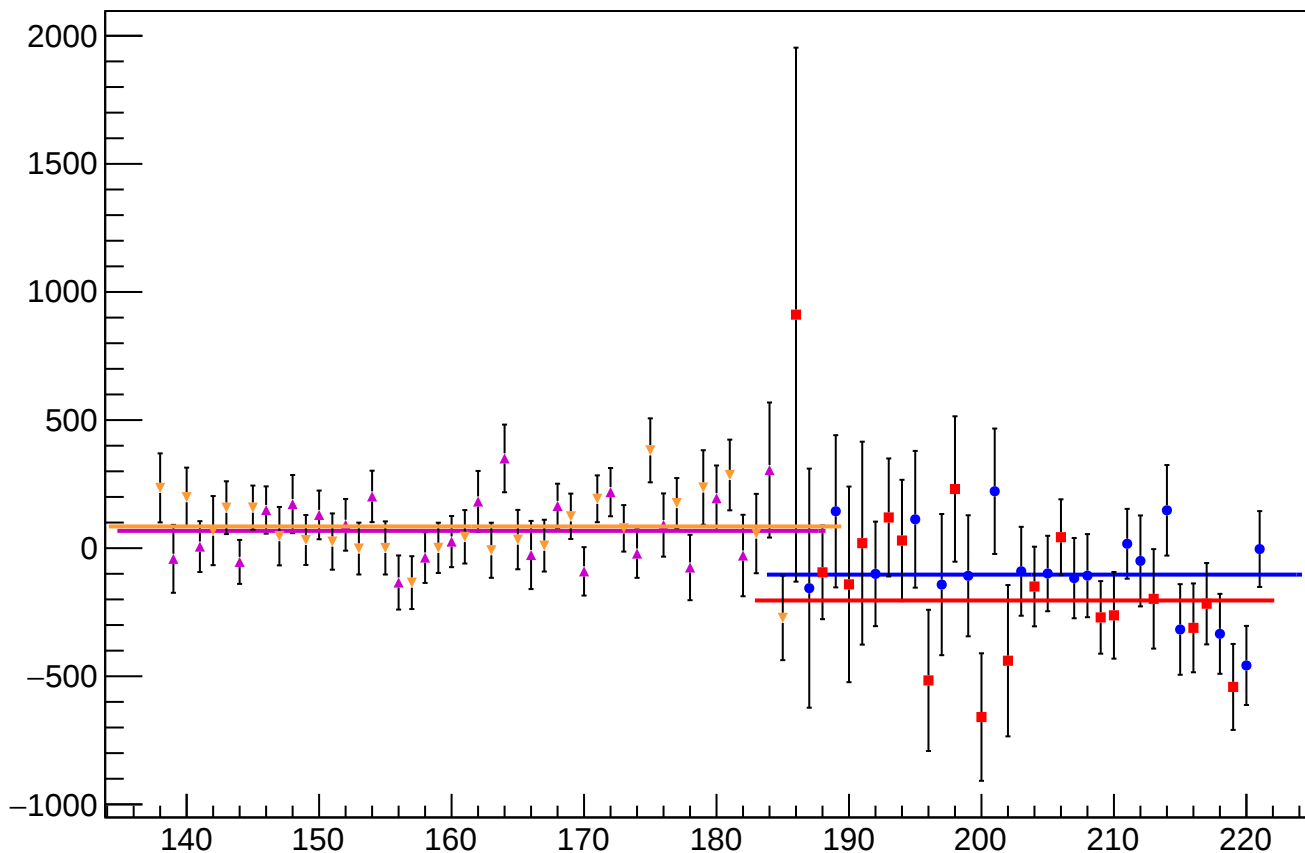
Right: 1310.363 $\pm$ 0.185 χ^2/NDF : 1369037.4/35

In: 801.007 $\pm$ 0.107 χ^2/NDF : 5460532.3/40

Out: 789.528 $\pm$ 0.106 χ^2/NDF : 6329632.3/42

All: 795.216 $\pm$ 0.075 χ^2/NDF : 11795947.0/83

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -103.256 ± 43.108 $\chi^2/\text{NDF}: 15.4/17$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -204.063 ± 47.632 $\chi^2/\text{NDF}: 20.1/17$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

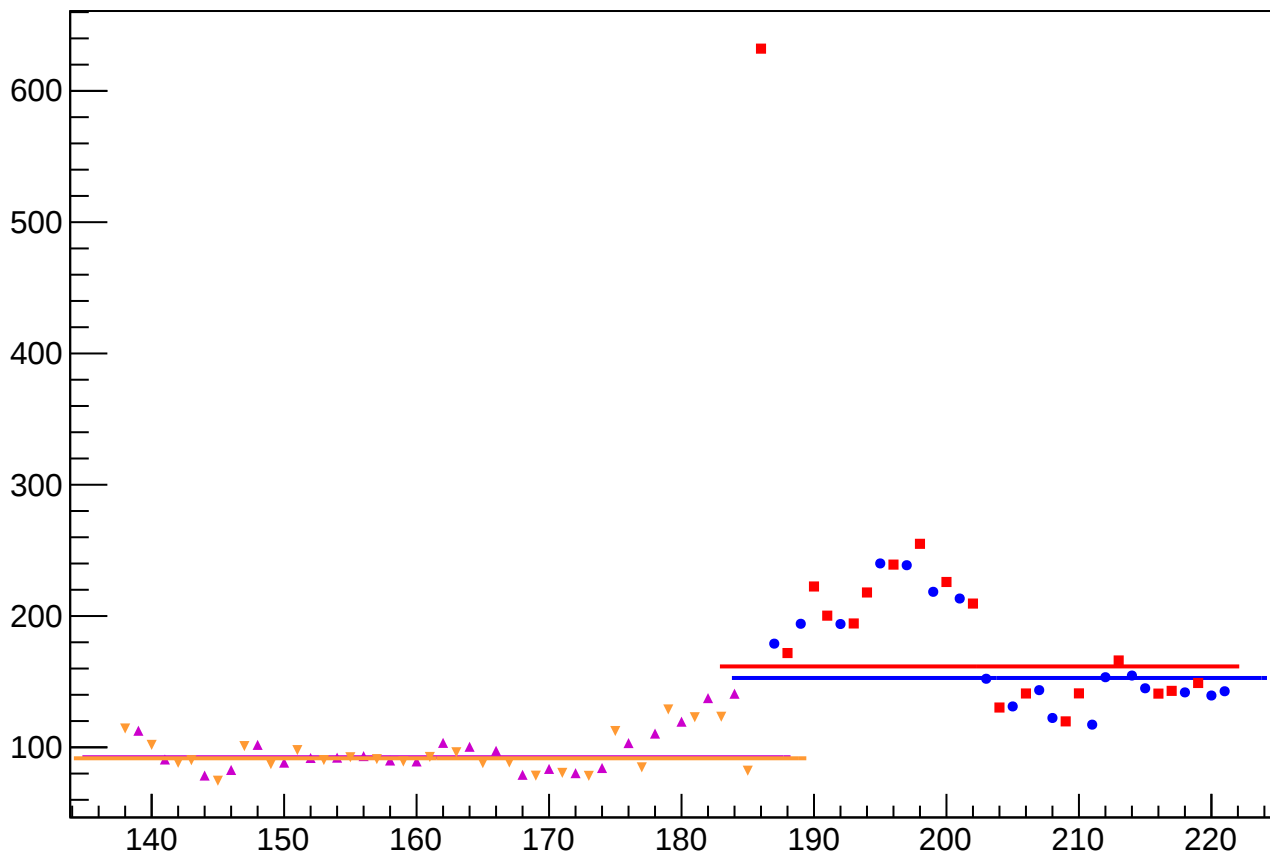
Right: -148.646 ± 31.962 $\chi^2/\text{NDF}: 38.0/35$

In: 31.112 ± 19.911 $\chi^2/\text{NDF}: 56.6/40$

Out: 35.416 ± 19.704 $\chi^2/\text{NDF}: 79.1/42$

All: 33.287 ± 14.006 $\chi^2/\text{NDF}: 135.8/83$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 152.814 $\pm$ 0.030 χ^2 /NDF: 1106337.7/17

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 161.607 $\pm$ 0.034 χ^2 /NDF: 1591226.8/17

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

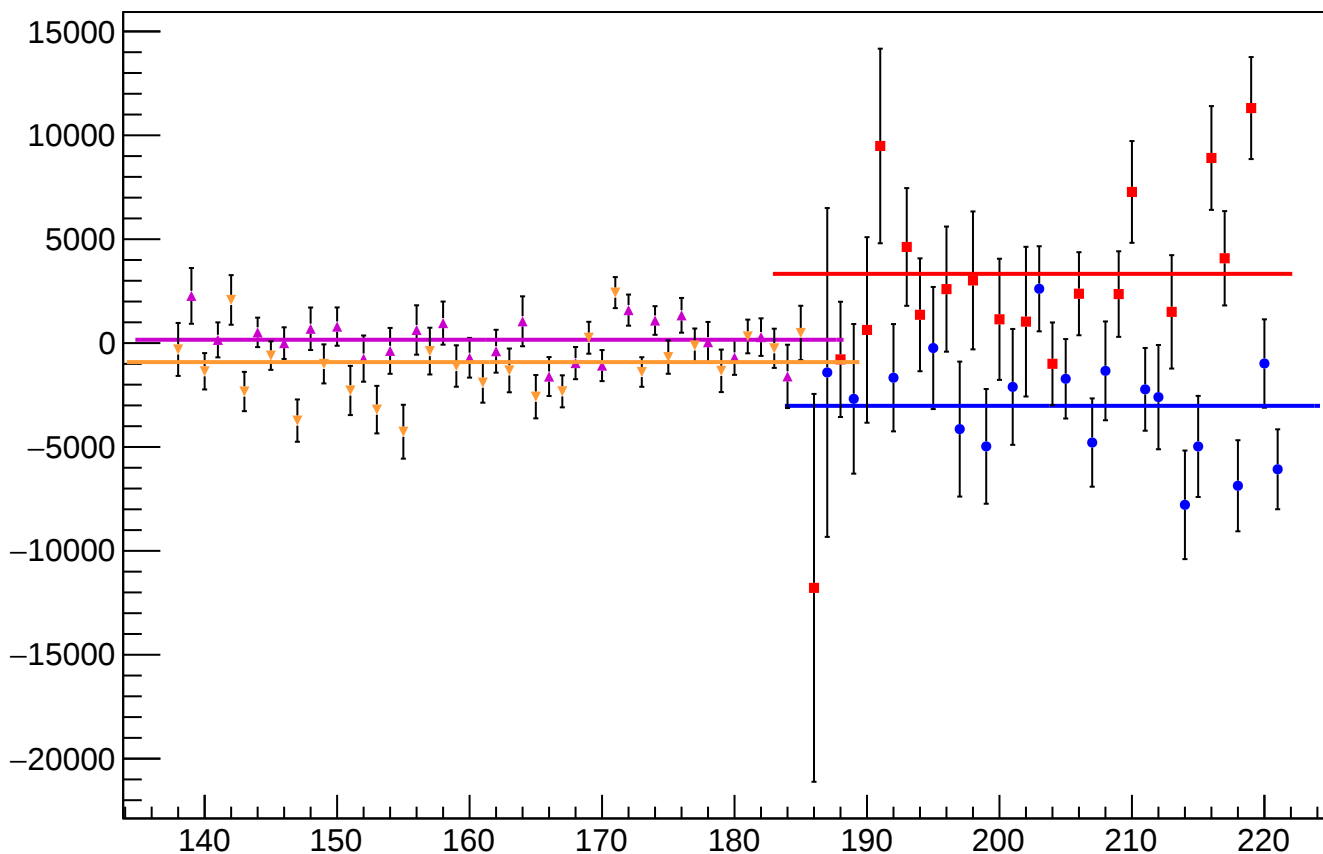
Right: 156.773 $\pm$ 0.023 χ^2 /NDF: 2735025.5/35

In: 105.341 $\pm$ 0.014 χ^2 /NDF: 4845488.5/40

Out: 103.607 $\pm$ 0.014 χ^2 /NDF: 5862013.2/42

All: 104.465 $\pm$ 0.010 χ^2 /NDF: 10715160.1/83

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -3019.402 $\pm$ 572.645 χ^2 /NDF: 21.8/17

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 3332.538 $\pm$ 638.465 χ^2 /NDF: 32.6/17

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

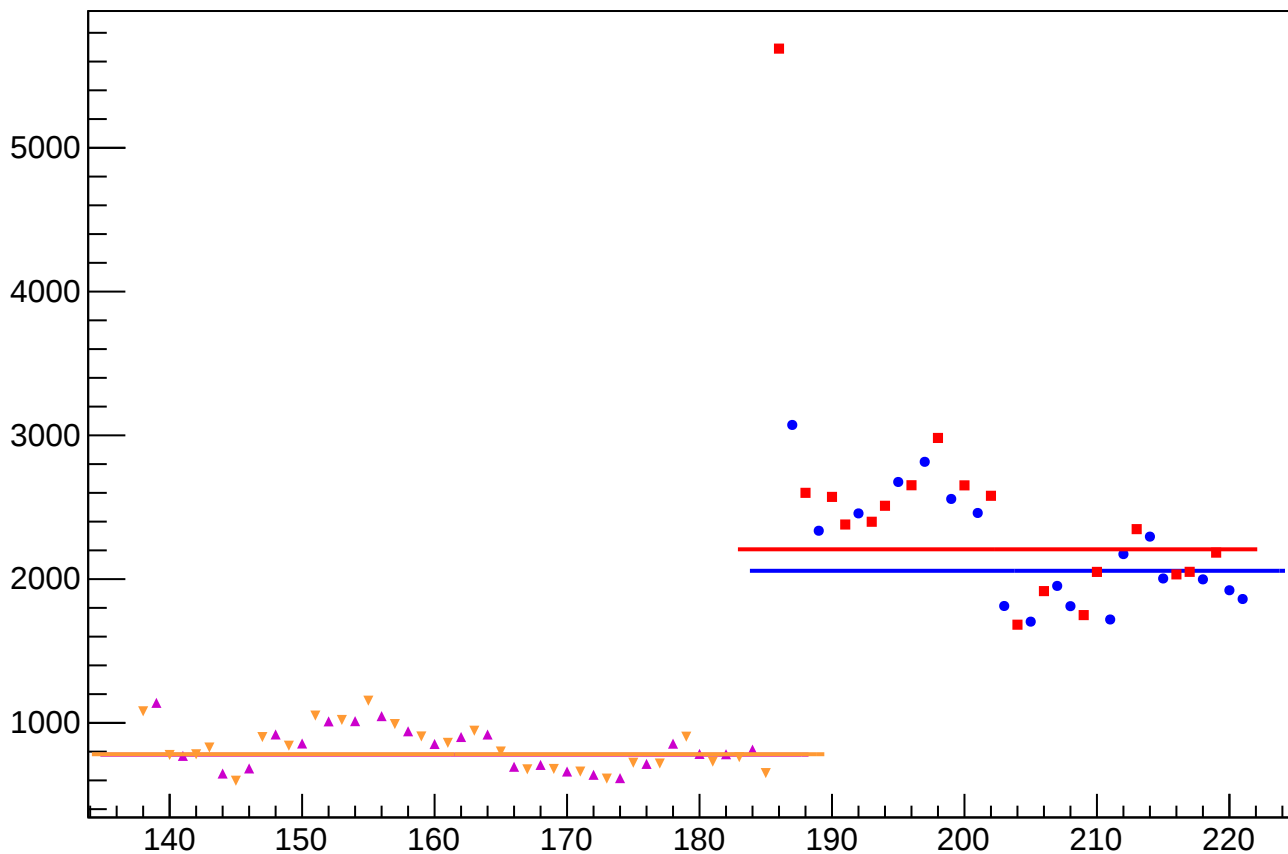
Right: -187.624 $\pm$ 426.298 χ^2 /NDF: 109.3/35

In: -152.809 $\pm$ 179.897 χ^2 /NDF:74.7/40

Out: -584.624 $\pm$ 177.993 χ^2 /NDF:137.6/42

All: -371.014 $\pm$ 126.528 χ^2 /NDF: 215.2/83

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2057.892 $\pm$ 0.405 χ^2 /NDF: 630431.3/17

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2207.331 $\pm$ 0.451 χ^2 /NDF: 902161.2/17

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

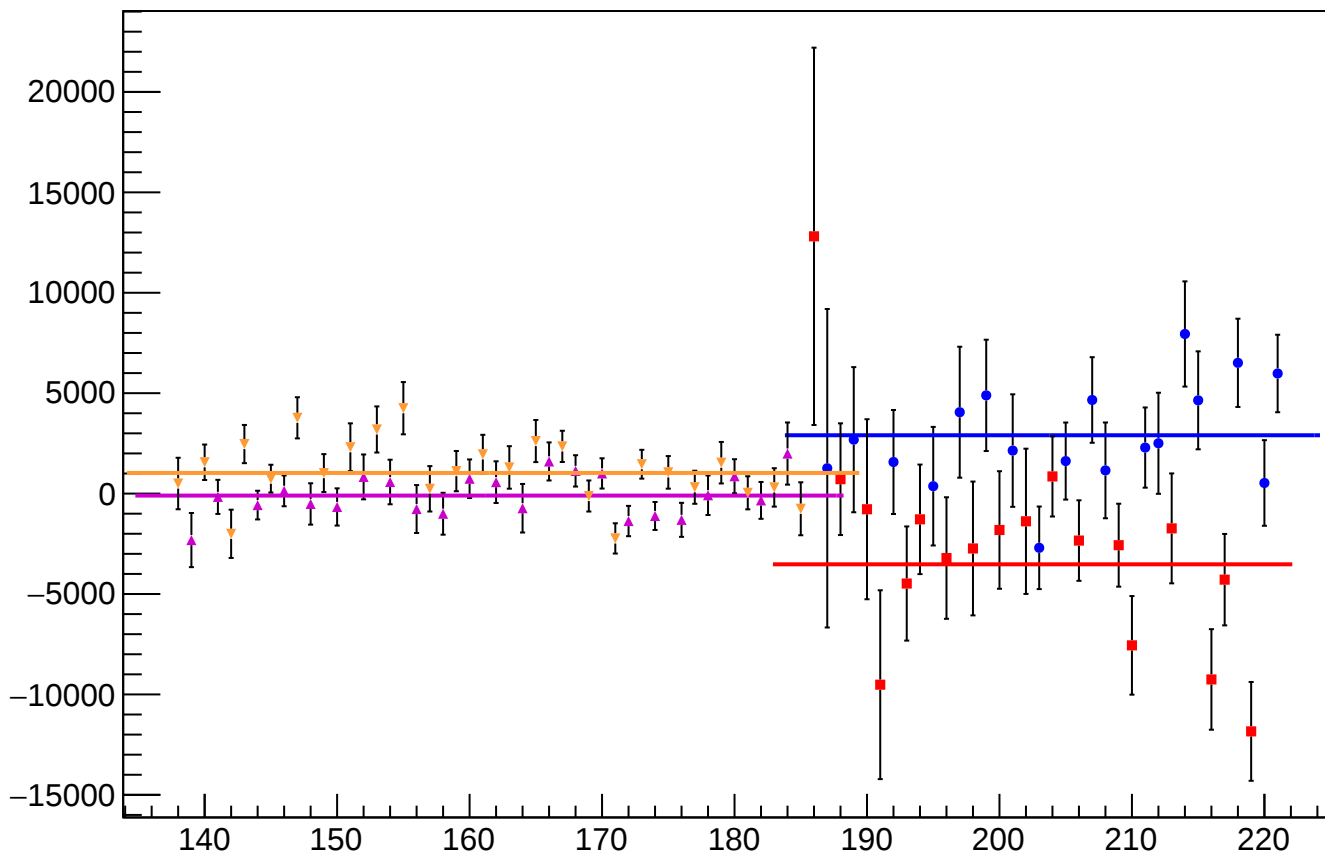
Right: 2124.514 $\pm$ 0.301 χ^2 /NDF: 1593313.5/35

In: 905.211 $\pm$ 0.127 χ^2 /NDF: 10601601.7/40

Out: 892.815 $\pm$ 0.126 χ^2 /NDF: 11225458.8/42

All: 898.947 $\pm$ 0.089 χ^2 /NDF: 21831858.9/83

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2905.186 $\pm$ 574.407 χ^2 /NDF: 21.7/17

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -3521.611 $\pm$ 640.416 χ^2 /NDF: 34.2/17

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

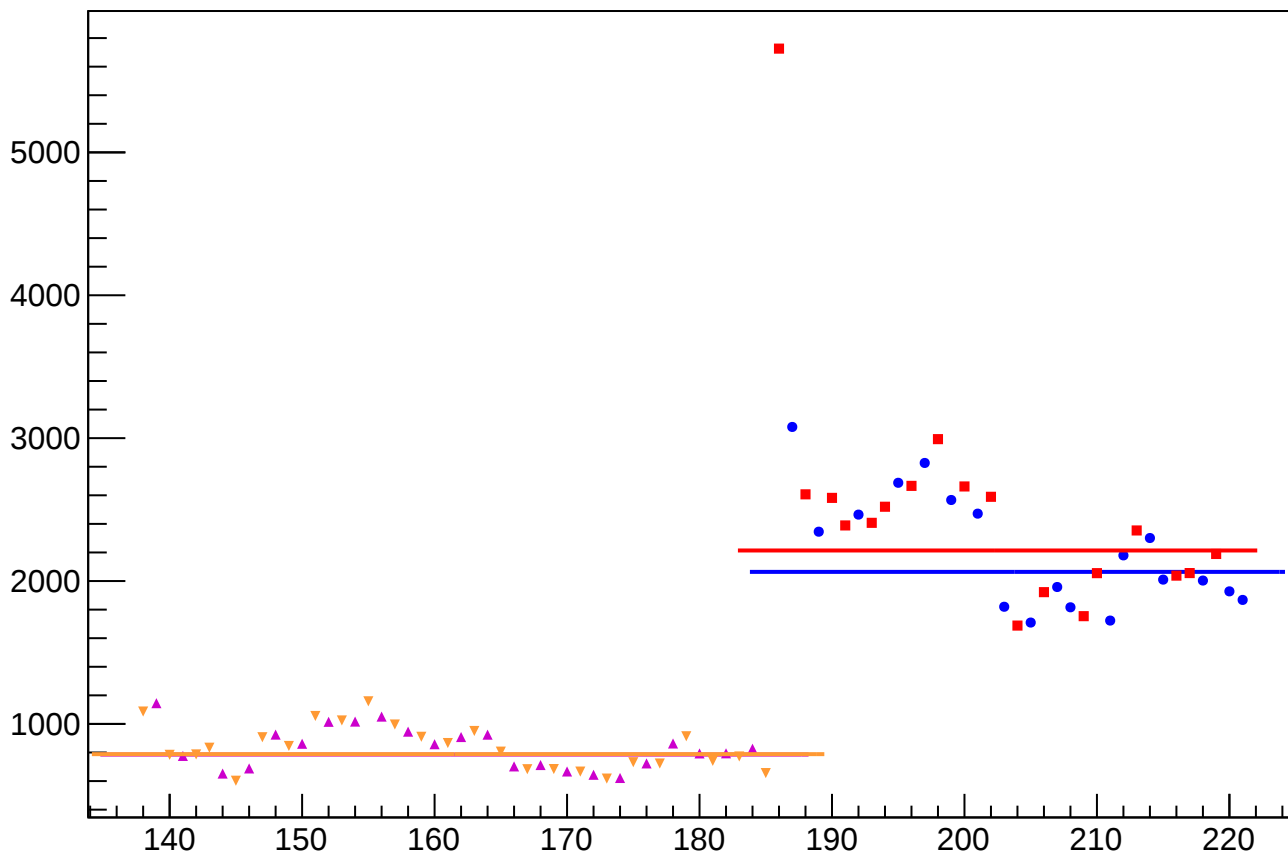
Right: 39.967 $\pm$ 427.606 χ^2 /NDF: 111.7/35

In: 200.449 $\pm$ 181.266 χ^2 /NDF:71.7/40

Out: 672.028 $\pm$ 179.336 χ^2 /NDF:140.9/42

All: 438.762 $\pm$ 127.487 χ^2 /NDF: 216.0/83

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2064.133+/-0.406 χ^2/NDF : 632871.7/17

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2213.892+/-0.453 χ^2/NDF : 906331.4/17

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

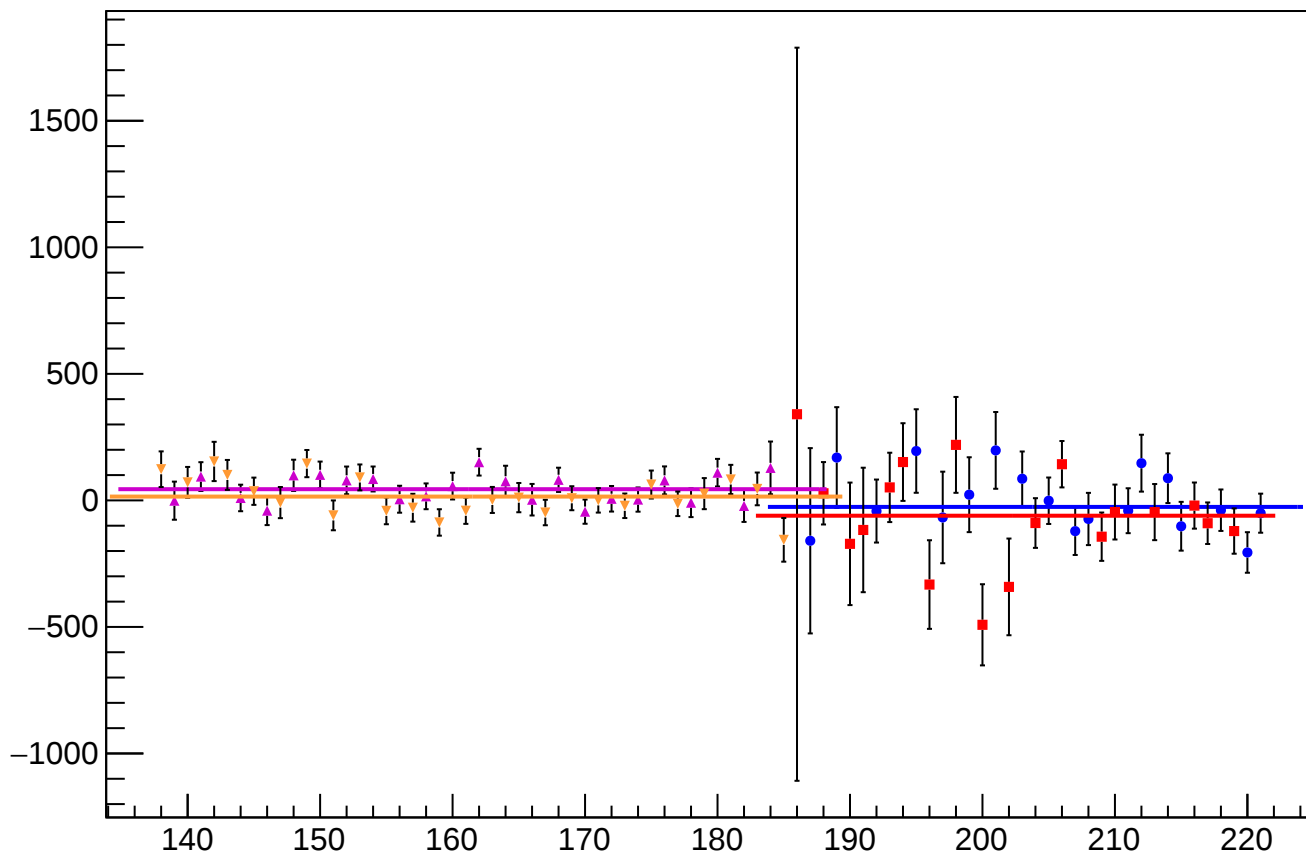
Right: 2130.899+/-0.302 χ^2/NDF : 1599812.2/35

In: 912.824+/-0.128 χ^2/NDF : 10521642.4/40

Out: 900.222+/-0.127 χ^2/NDF : 11151617.3/42

All: 906.455+/-0.090 χ^2/NDF : 21678144.6/83

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -25.727 ± 25.359 $\chi^2/\text{NDF}: 17.1/17$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -60.531 ± 28.690 $\chi^2/\text{NDF}: 24.0/17$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

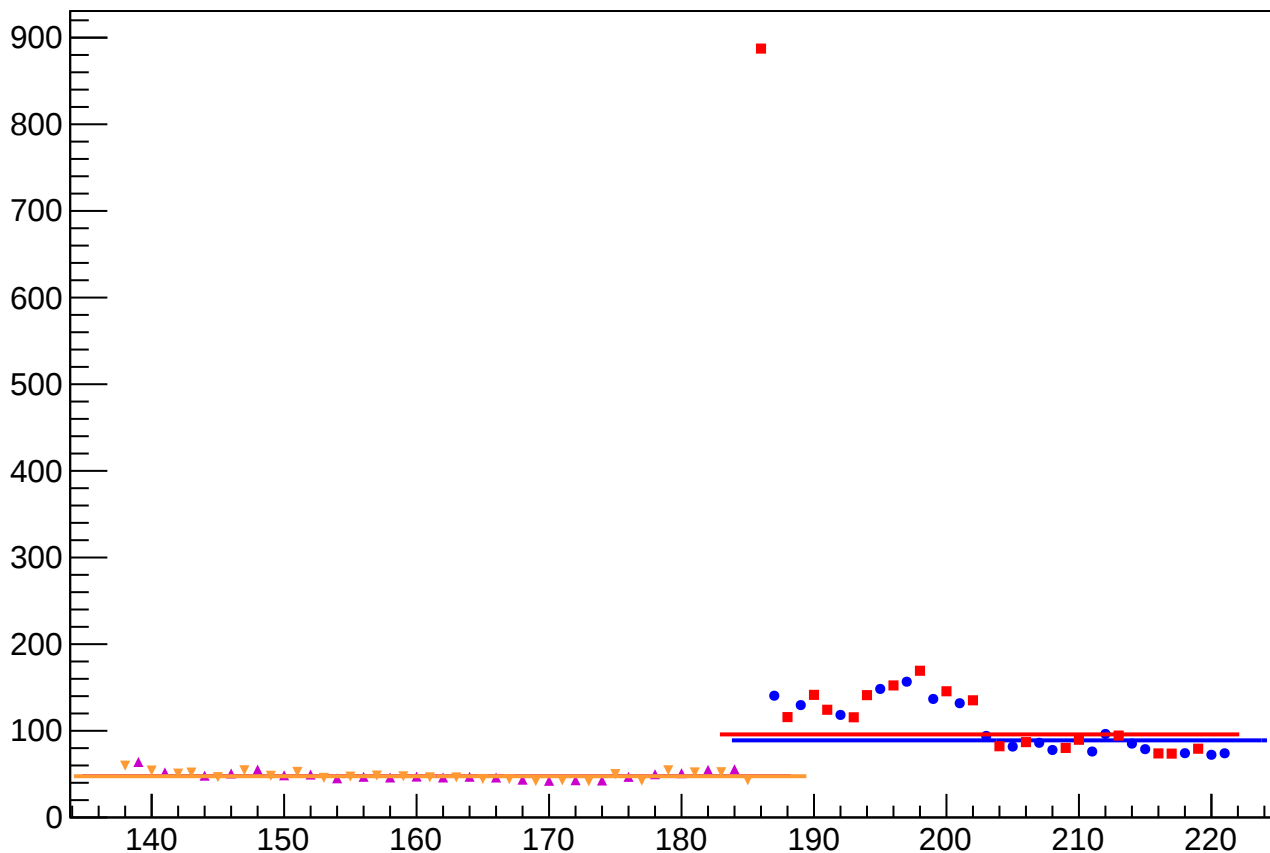
Right: -40.992 ± 19.001 $\chi^2/\text{NDF}: 42.0/35$

In: 32.302 ± 10.496 $\chi^2/\text{NDF}: 45.7/40$

Out: 5.168 ± 10.396 $\chi^2/\text{NDF}: 64.2/42$

All: 18.606 ± 7.386 $\chi^2/\text{NDF}: 113.4/83$

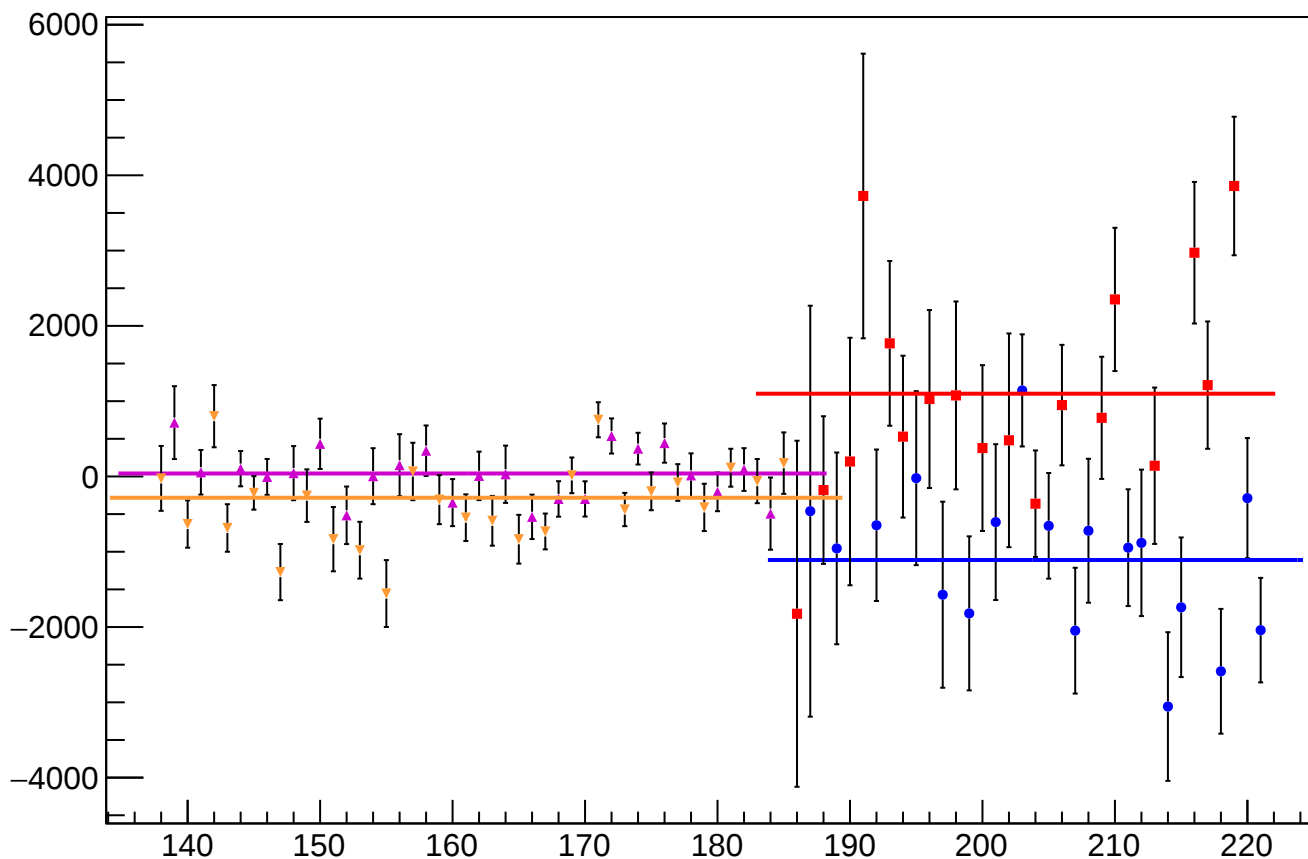
reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 88.974 $\pm$ 0.018 χ^2 /NDF: 1485752.9/17
 Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24
 Right Out: 95.847 $\pm$ 0.020 χ^2 /NDF: 2198049.1/17
 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: 91.989 $\pm$ 0.013 χ^2 /NDF: 3748243.3/35
 In: 54.892 $\pm$ 0.007 χ^2 /NDF: 6127136.4/40
 Out: 53.923 $\pm$ 0.007 χ^2 /NDF: 7427077.1/42
 All: 54.403 $\pm$ 0.005 χ^2 /NDF: 13562807.6/83

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1109.582 ± 216.143 χ^2/NDF : 23.5/17

Left Out: -282.798 ± 59.690 χ^2/NDF : 66.5/24

Right Out: 1099.211 ± 241.932 χ^2/NDF : 26.8/17

Left In: 39.432 ± 60.759 χ^2/NDF : 27.5/22

Left: -124.543 ± 42.580 χ^2/NDF : 108.4/47

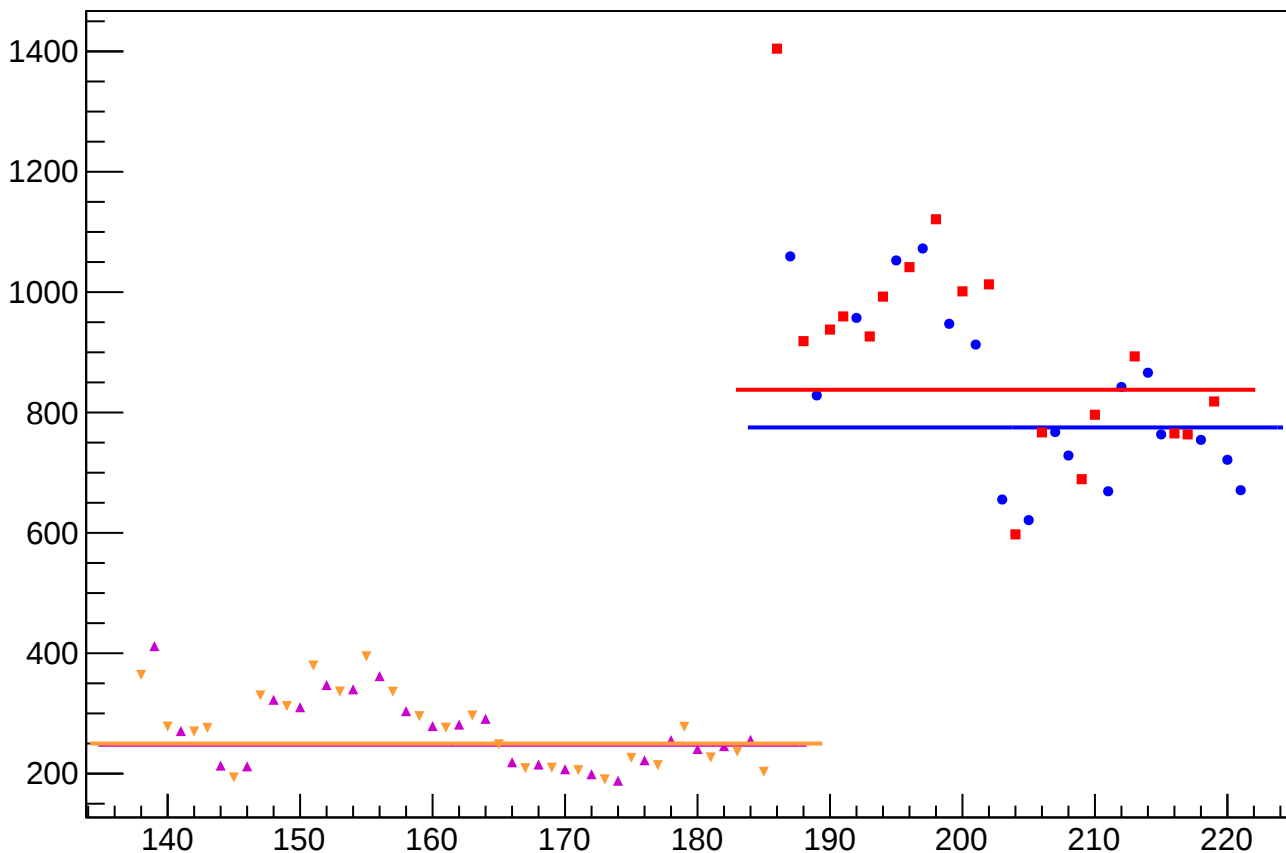
Right: -129.148 ± 161.185 χ^2/NDF : 96.7/35

In: -44.714 ± 58.492 χ^2/NDF : 77.2/40

Out: -203.501 ± 57.952 χ^2/NDF : 124.1/42

All: -124.843 ± 41.168 χ^2/NDF : 205.1/83

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 775.154+/-0.153 χ^2/NDF : 686508.6/17

Left Out: 249.956+/-0.042 χ^2/NDF :1614205.9/24

Right Out: 837.781+/-0.171 χ^2/NDF : 794013.0/17

Left In: 247.917+/-0.043 χ^2/NDF :1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

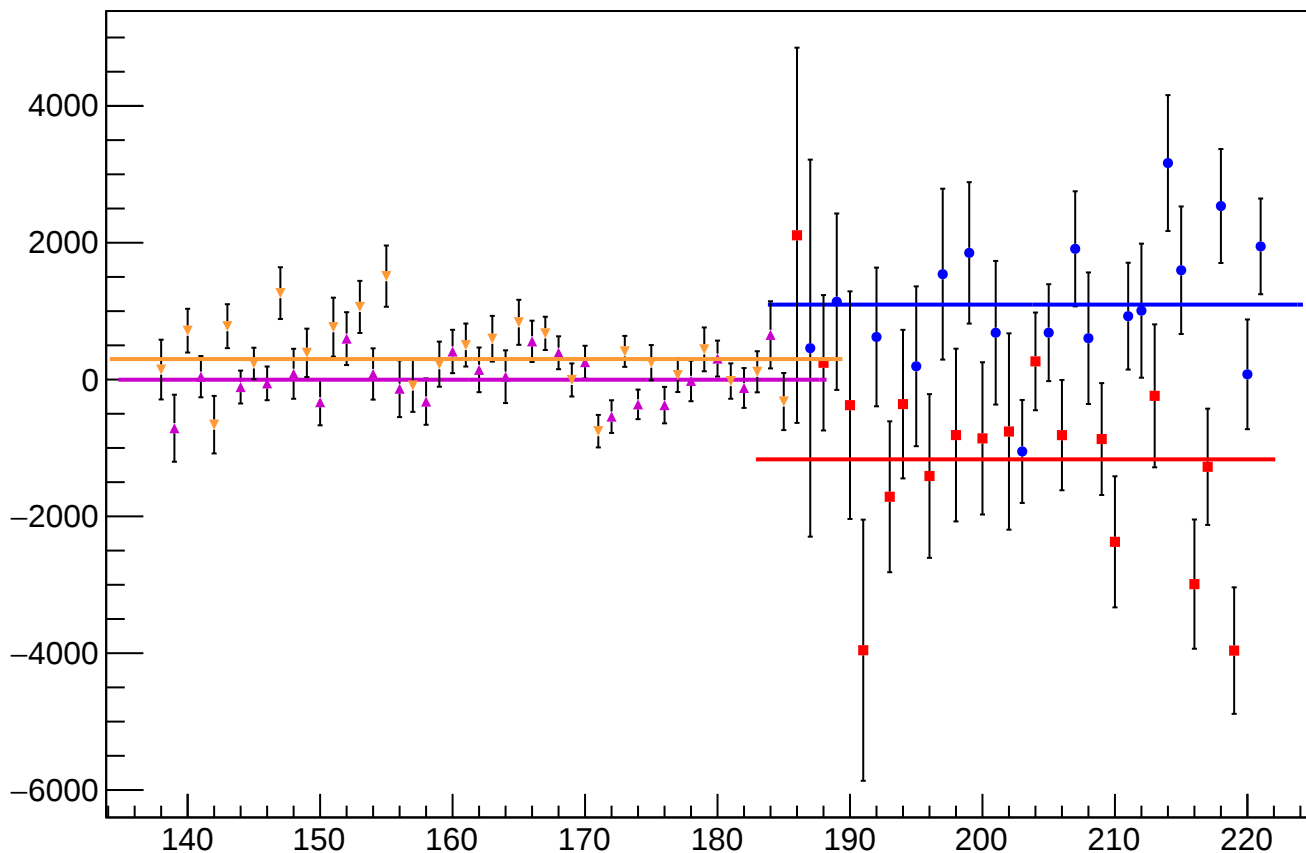
Right: 802.953+/-0.114 χ^2/NDF : 1555053.2/35

In: 286.528+/-0.041 χ^2/NDF :13126244.7/40

Out: 283.685+/-0.041 χ^2/NDF :13537719.6/42

All: 285.093+/-0.029 χ^2/NDF : 26666349.0/83

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1095.453 $\pm$ 217.887 χ^2 /NDF: 22.1/17

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -1166.350 $\pm$ 244.294 χ^2 /NDF: 26.5/17

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

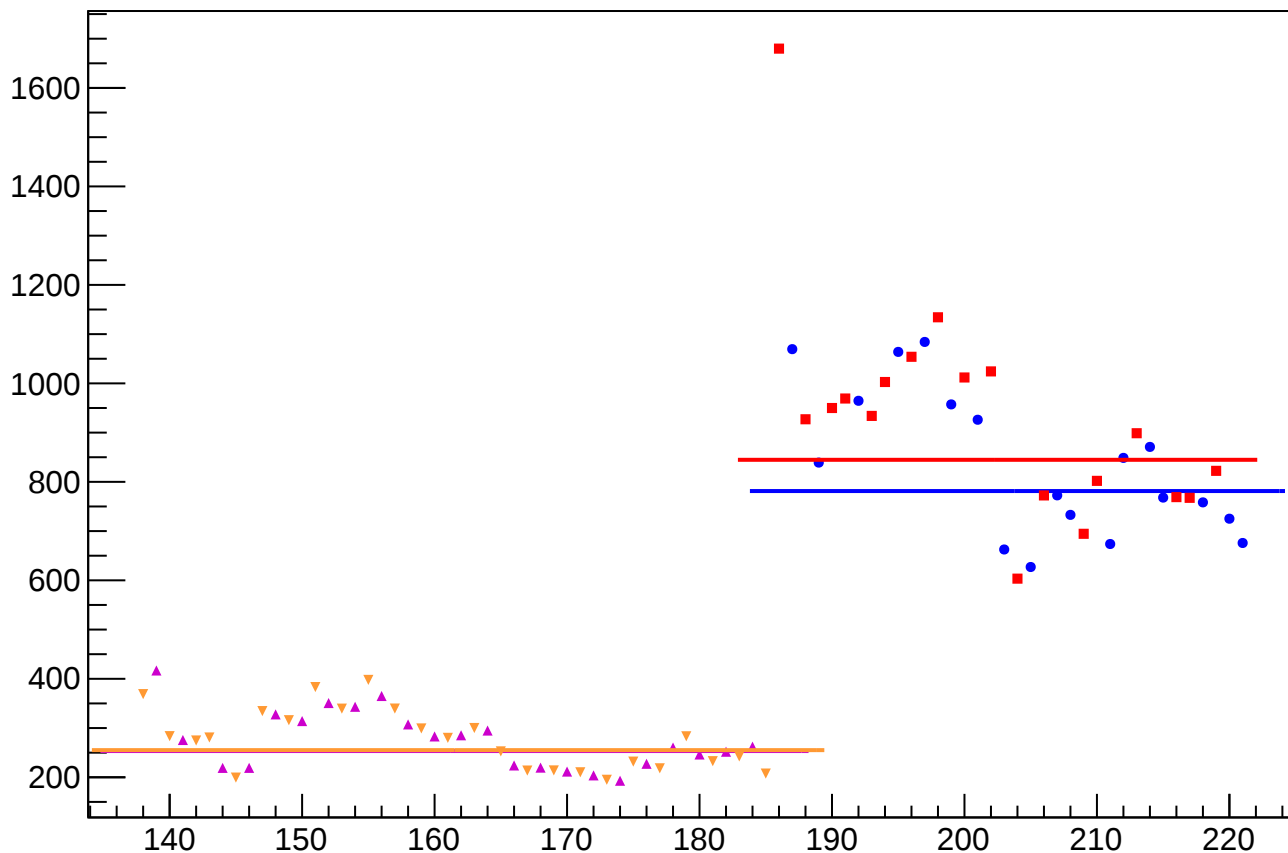
Right: 93.358 $\pm$ 162.607 χ^2 /NDF: 96.4/35

In: 80.044 $\pm$ 59.637 χ^2 /NDF:74.8/40

Out: 213.899 $\pm$ 59.055 χ^2 /NDF:122.9/42

All: 147.629 $\pm$ 41.962 χ^2 /NDF: 200.2/83

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 781.322+/-0.154 χ^2/NDF : 692715.5/17

Left Out: 255.135+/-0.043 χ^2/NDF :1542039.5/24

Right Out: 844.769+/-0.173 χ^2/NDF : 865991.5/17

Left In: 253.287+/-0.044 χ^2/NDF :1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

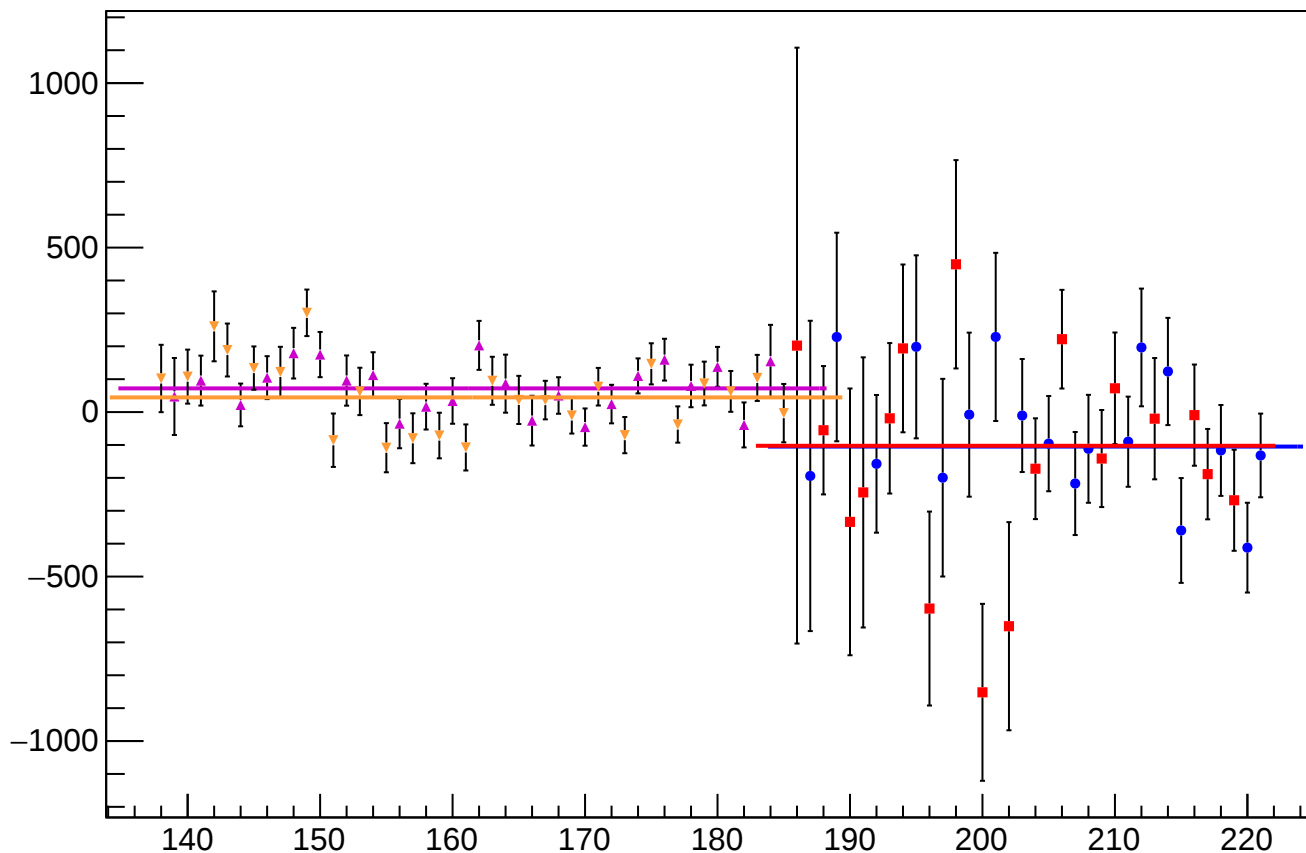
Right: 809.432+/-0.115 χ^2/NDF : 1633843.2/35

In: 292.845+/-0.042 χ^2/NDF :12900462.1/40

Out: 289.591+/-0.042 χ^2/NDF :13378382.2/42

All: 291.202+/-0.030 χ^2/NDF : 26281849.9/83

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -104.839 ± 41.462 $\chi^2/\text{NDF}: 17.7/17$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -102.459 ± 46.927 $\chi^2/\text{NDF}: 26.8/17$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

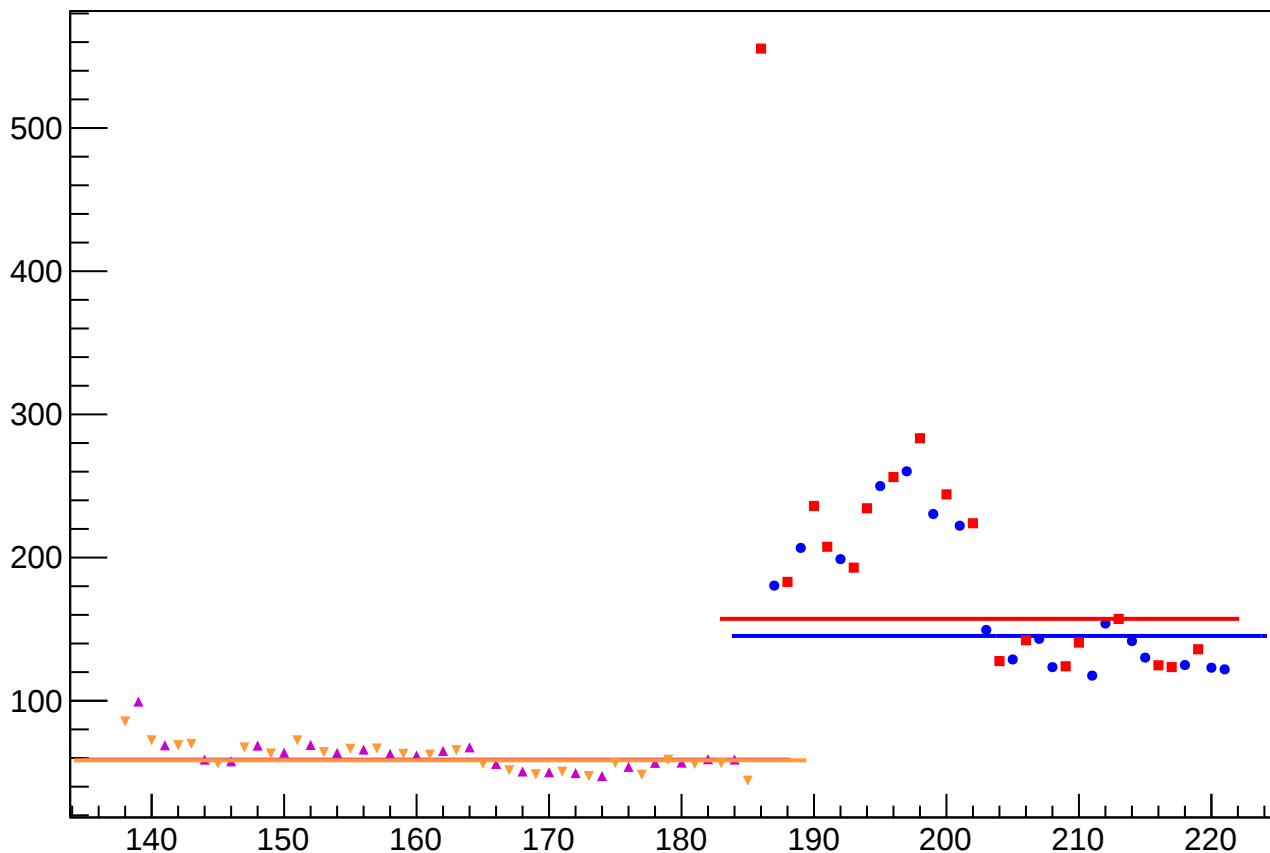
Right: -103.796 ± 31.071 $\chi^2/\text{NDF}: 44.5/35$

In: 53.243 ± 13.515 $\chi^2/\text{NDF}: 59.2/40$

Out: 32.858 ± 13.261 $\chi^2/\text{NDF}: 89.8/42$

All: 42.857 ± 9.466 $\chi^2/\text{NDF}: 150.2/83$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 145.272 $\pm$ 0.029 χ^2 /NDF: 1540180.9/17

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 157.219 $\pm$ 0.033 χ^2 /NDF: 2062121.8/17

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

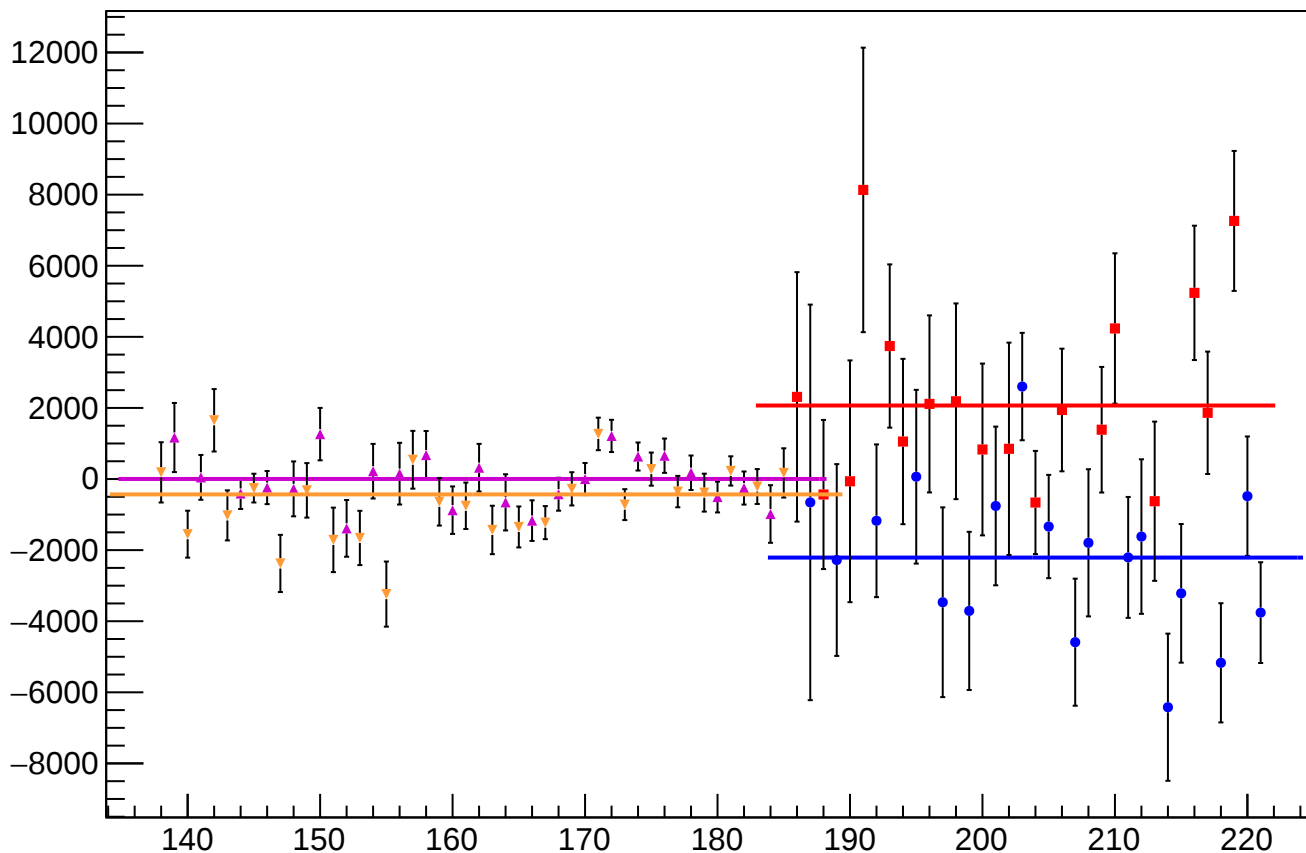
Right: 150.510 $\pm$ 0.022 χ^2 /NDF: 3675095.5/35

In: 68.024 $\pm$ 0.010 χ^2 /NDF: 9987855.6/40

Out: 66.312 $\pm$ 0.009 χ^2 /NDF: 11009121.1/42

All: 67.152 $\pm$ 0.007 χ^2 /NDF: 21013322.1/83

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2209.754 $\pm$ 455.626 χ^2 /NDF: 24.4/17

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 2068.251 $\pm$ 510.462 χ^2 /NDF: 21.2/17

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

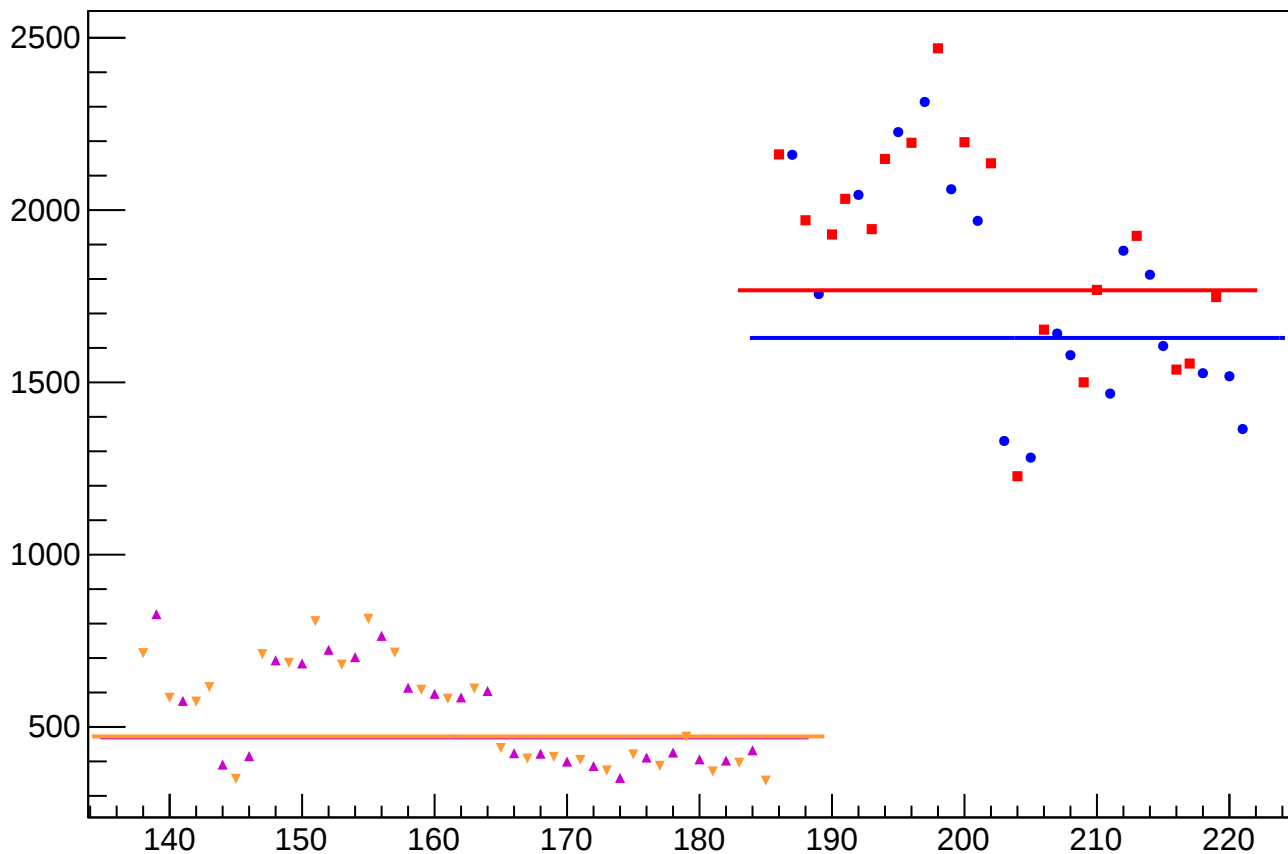
Right: -312.796 $\pm$ 339.916 χ^2 /NDF: 84.8/35

In: -133.802 $\pm$ 112.831 χ^2 /NDF:78.9/40

Out: -312.727 $\pm$ 111.638 χ^2 /NDF:103.5/42

All: -224.215 $\pm$ 79.359 χ^2 /NDF: 183.6/83

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1628.958 +/- 0.322 χ^2/NDF : 810955.9/17

Left Out: 472.569 +/- 0.081 χ^2/NDF : 2508168.9/24

Right Out: 1767.267 +/- 0.361 χ^2/NDF : 807117.2/17

Left In: 469.761 +/- 0.082 χ^2/NDF : 2116885.7/22

Left: 471.190 +/- 0.058 χ^2/NDF : 4625646.2/47

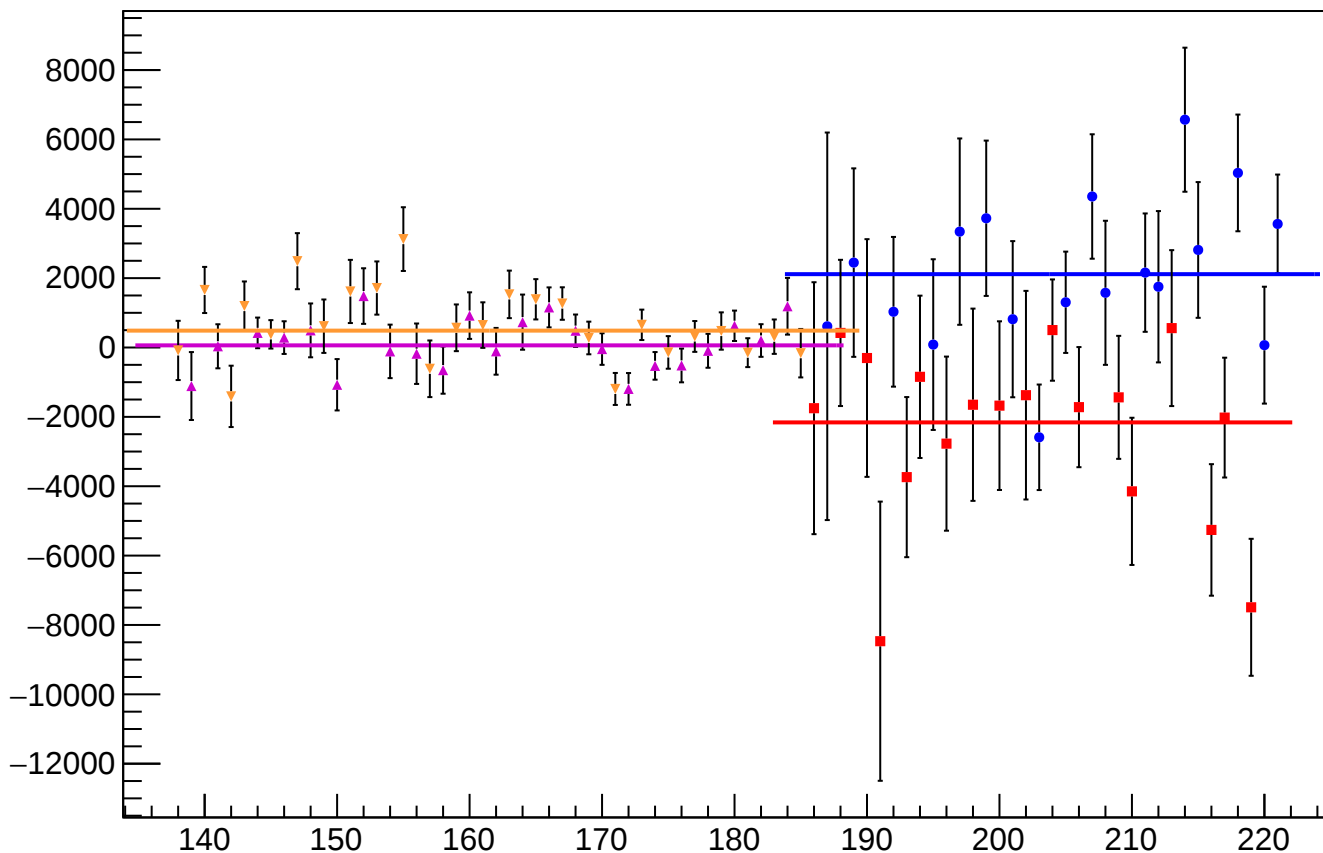
Right: 1690.287 +/- 0.240 χ^2/NDF : 1699794.0/35

In: 540.850 +/- 0.080 χ^2/NDF : 15079694.4/40

Out: 534.494 +/- 0.079 χ^2/NDF : 15565813.9/42

All: 537.638 +/- 0.056 χ^2/NDF : 30648714.7/83

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2114.787 $\pm$ 457.828 χ^2 /NDF: 23.8/17

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -2159.608 $\pm$ 513.232 χ^2 /NDF: 21.1/17

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

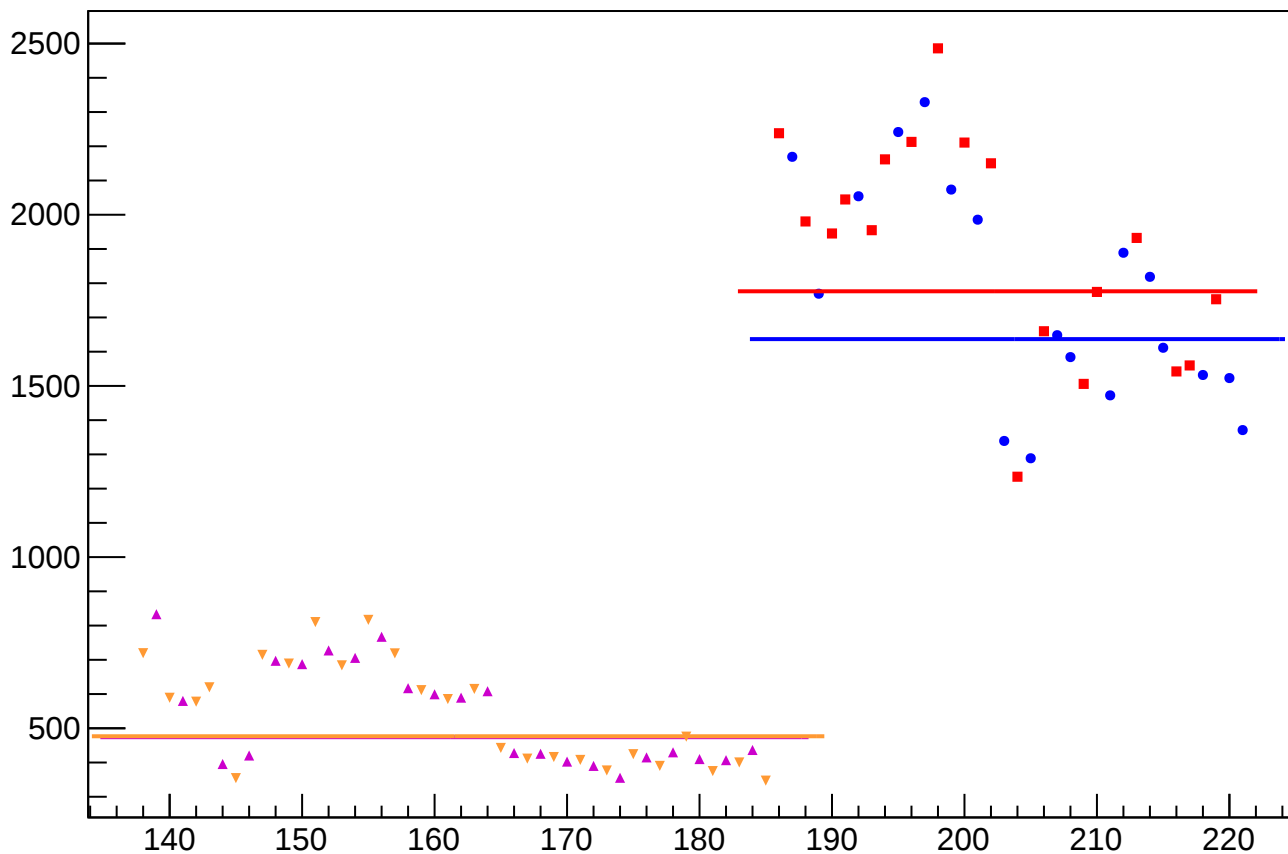
Right: 220.672 $\pm$ 341.648 χ^2 /NDF: 83.6/35

In: 188.541 $\pm$ 113.765 χ^2 /NDF:73.9/40

Out: 359.409 $\pm$ 112.539 χ^2 /NDF:102.4/42

All: 274.901 $\pm$ 80.007 χ^2 /NDF: 177.4/83

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1636.735+/-0.324 χ^2/NDF : 814182.0/17

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1776.420+/-0.363 χ^2/NDF : 819802.9/17

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

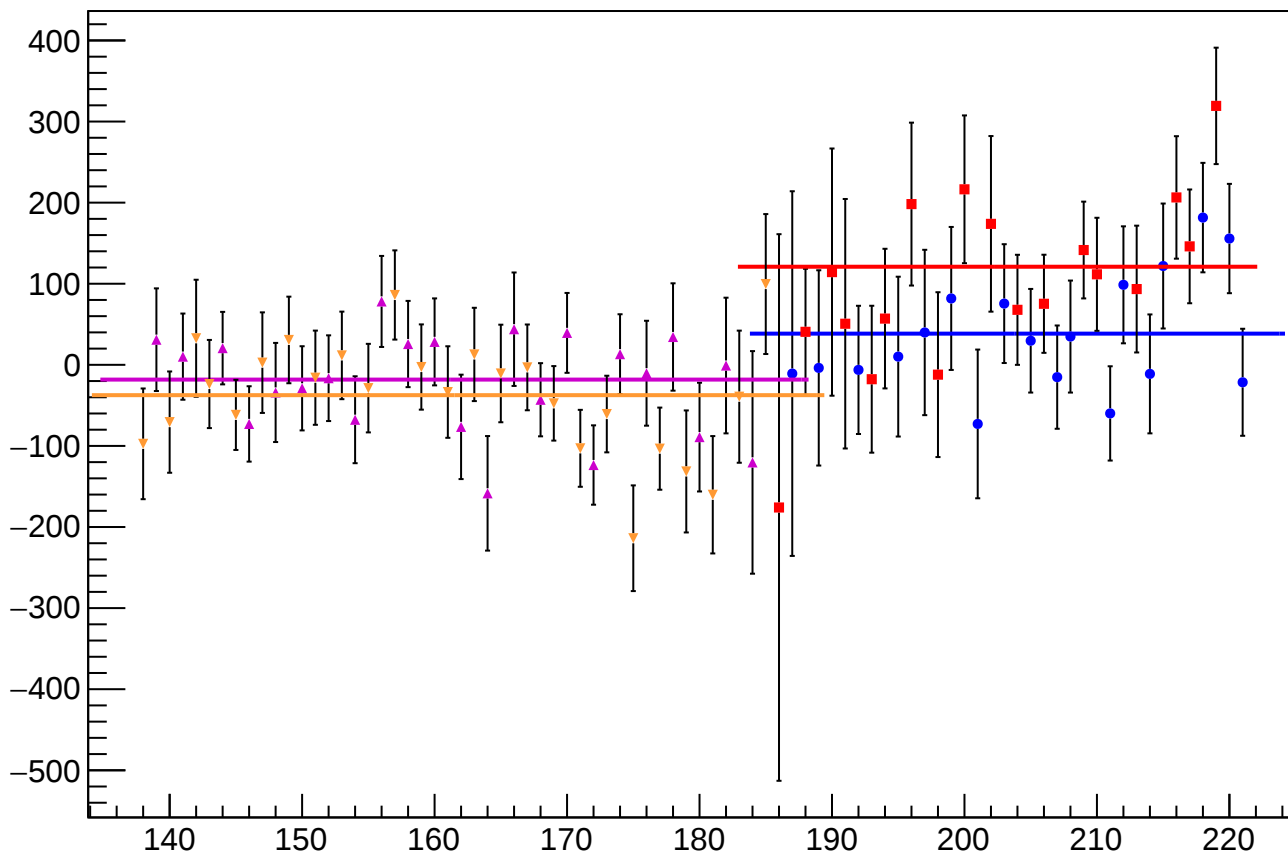
Right: 1698.634+/-0.242 χ^2/NDF : 1716484.4/35

In: 545.779+/-0.080 χ^2/NDF : 15005020.6/40

Out: 539.183+/-0.080 χ^2/NDF : 15502341.6/42

All: 542.445+/-0.057 χ^2/NDF : 30510760.3/83

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 38.462 ± 17.975 $\chi^2/\text{NDF}: 16.8/17$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: 120.968 ± 19.495 $\chi^2/\text{NDF}: 19.1/17$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

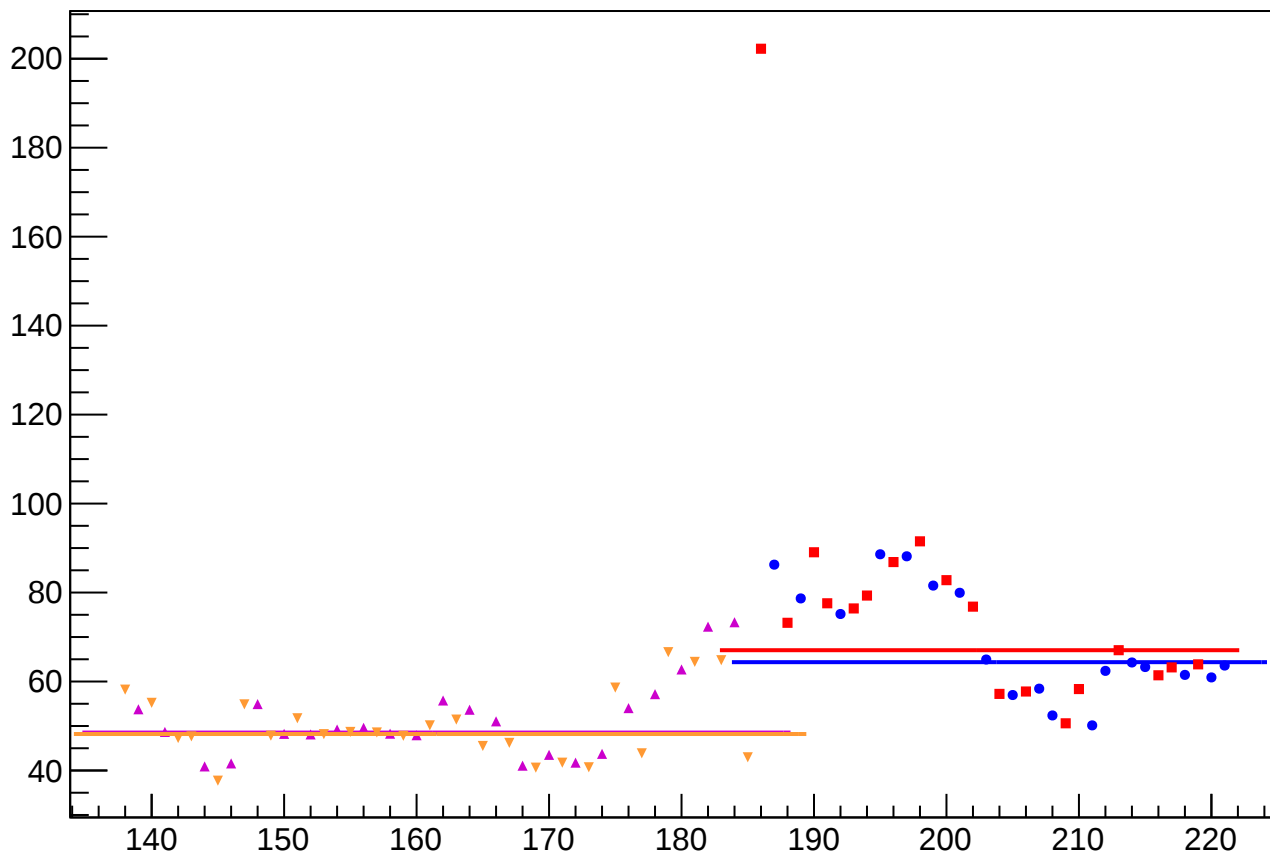
Right: 76.375 ± 13.215 $\chi^2/\text{NDF}: 45.6/35$

In: -1.167 ± 9.857 $\chi^2/\text{NDF}: 46.8/40$

Out: 2.892 ± 9.834 $\chi^2/\text{NDF}: 98.8/42$

All: 0.867 ± 6.962 $\chi^2/\text{NDF}: 145.6/83$

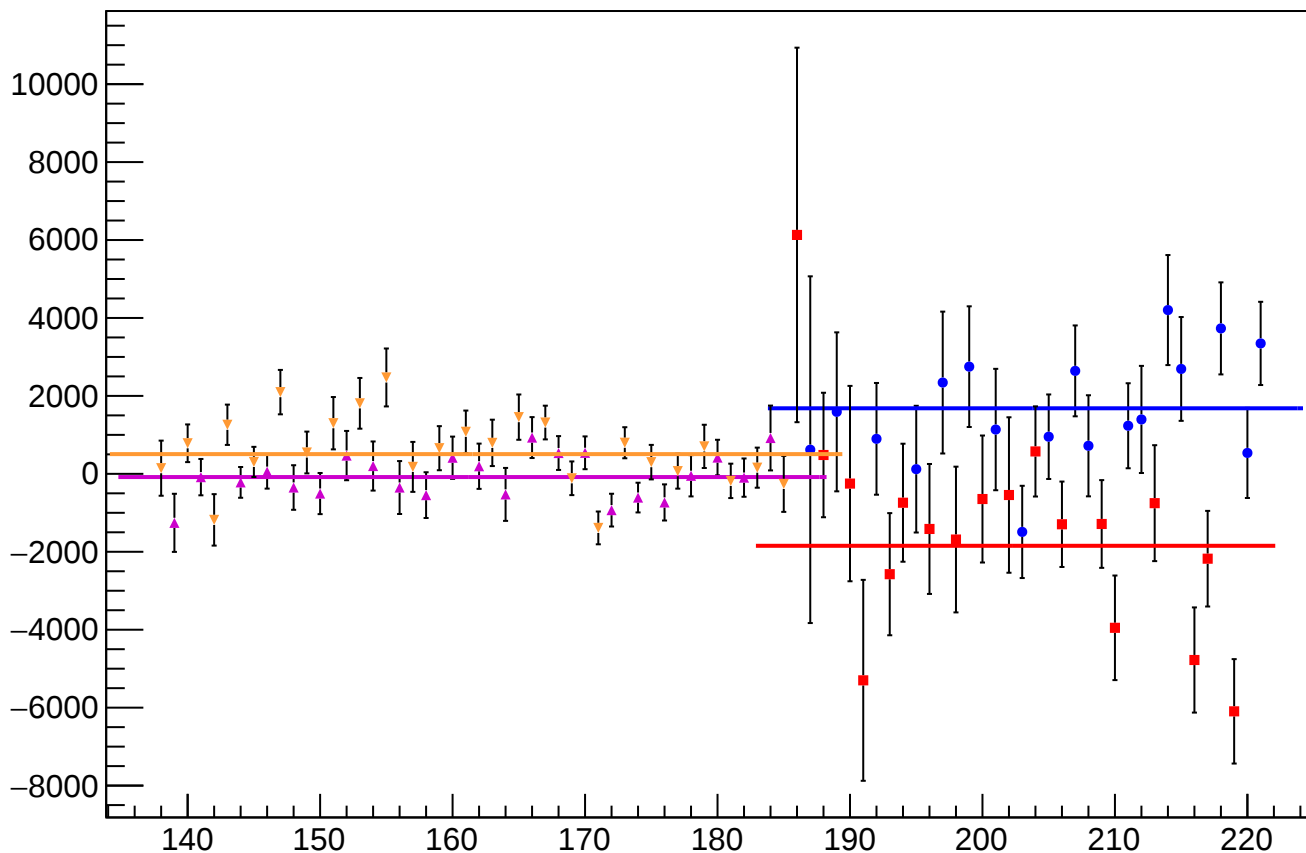
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.350 $\pm$ 0.013 χ^2 /NDF: 684031.2/17
 Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24
 Right Out: 67.038 $\pm$ 0.014 χ^2 /NDF: 1010830.6/17
 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: 65.585 $\pm$ 0.009 χ^2 /NDF: 1715421.1/35
 In: 53.285 $\pm$ 0.007 χ^2 /NDF: 2443094.5/40
 Out: 52.994 $\pm$ 0.007 χ^2 /NDF: 3153410.9/42
 All: 53.139 $\pm$ 0.005 χ^2 /NDF: 5597381.7/83

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1682.147 ± 316.909 χ^2/NDF : 21.3/17

Left Out: 506.205 ± 103.468 χ^2/NDF : 65.7/24

Right Out: -1846.423 ± 353.359 χ^2/NDF : 31.6/17

Left In: -82.421 ± 105.935 χ^2/NDF : 25.3/22

Left: 218.827 ± 74.020 χ^2/NDF : 106.9/47

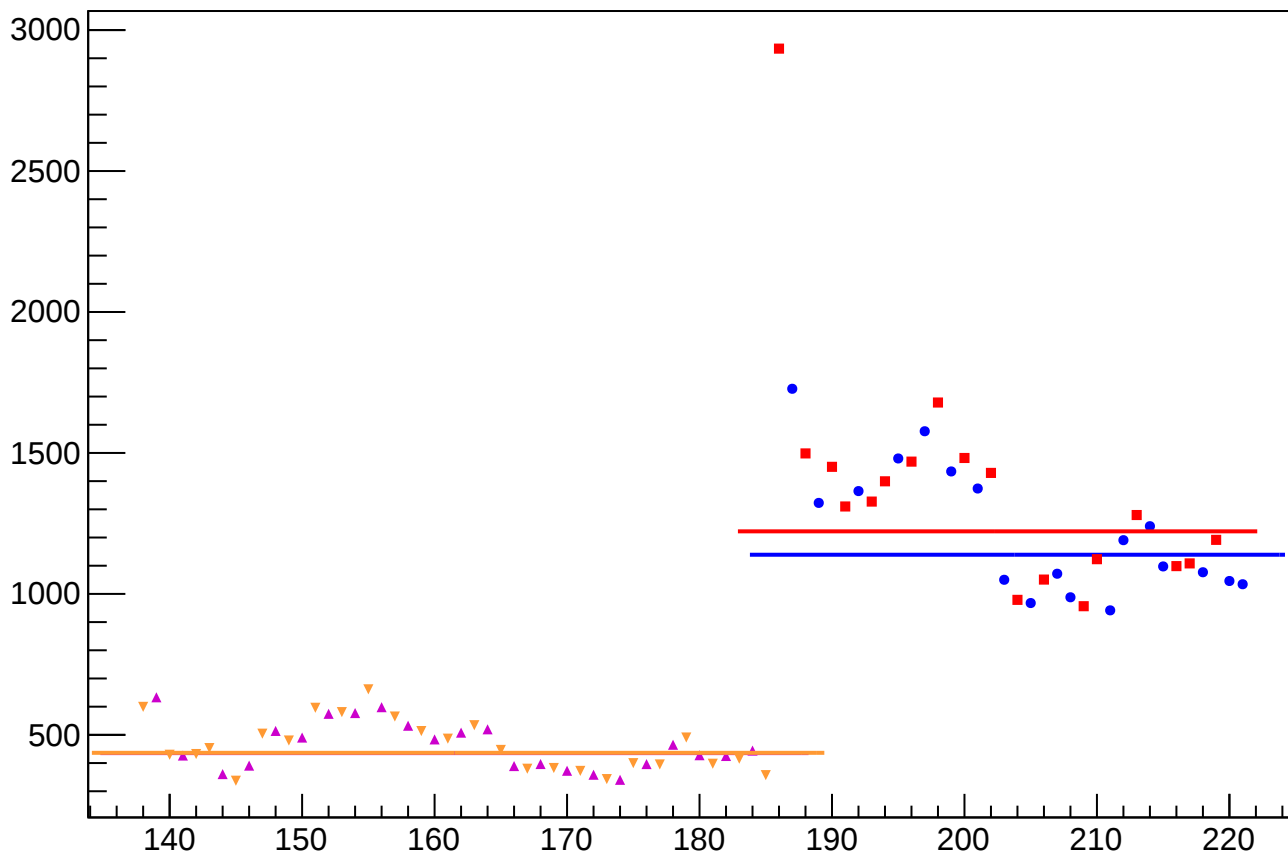
Right: 109.187 ± 235.926 χ^2/NDF : 108.1/35

In: 94.936 ± 100.470 χ^2/NDF : 74.5/40

Out: 320.423 ± 99.298 χ^2/NDF : 138.1/42

All: 209.002 ± 70.625 χ^2/NDF : 215.2/83

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1138.933+/-0.224 χ^2/NDF : 636300.0/17

Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24

Right Out: 1221.913+/-0.250 χ^2/NDF : 902505.7/17

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

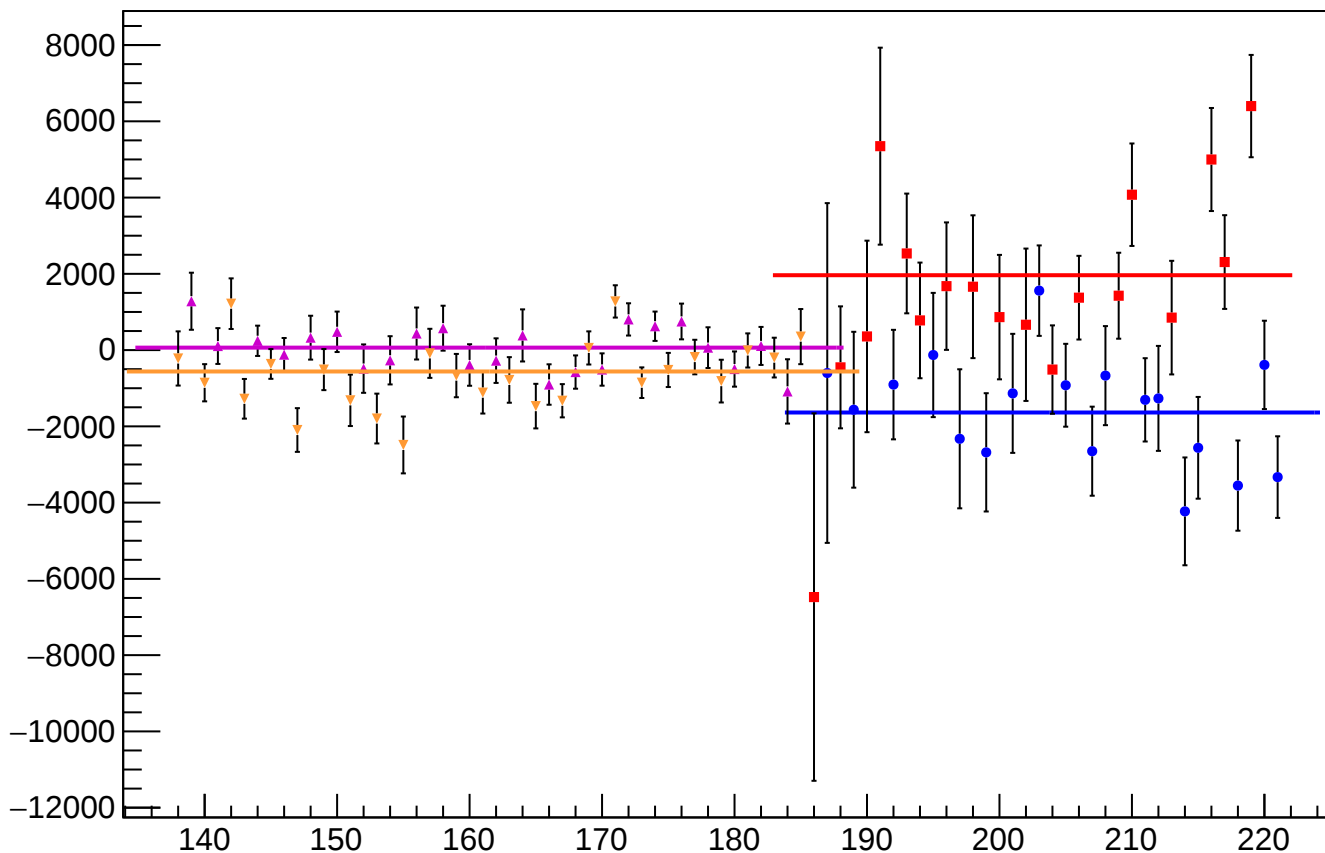
Right: 1175.924+/-0.167 χ^2/NDF : 1599931.8/35

In: 506.000+/-0.071 χ^2/NDF :10533158.1/40

Out: 498.340+/-0.070 χ^2/NDF :11187019.5/42

All: 502.125+/-0.050 χ^2/NDF : 21726058.4/83

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1636.591 ± 317.451 χ^2/NDF : 21.2/17

Left Out: -560.684 ± 104.207 χ^2/NDF : 61.8/24

Right Out: 1963.961 ± 353.931 χ^2/NDF : 33.3/17

Left In: 64.594 ± 106.708 χ^2/NDF : 25.2/22

Left: -255.457 ± 74.554 χ^2/NDF : 104.5/47

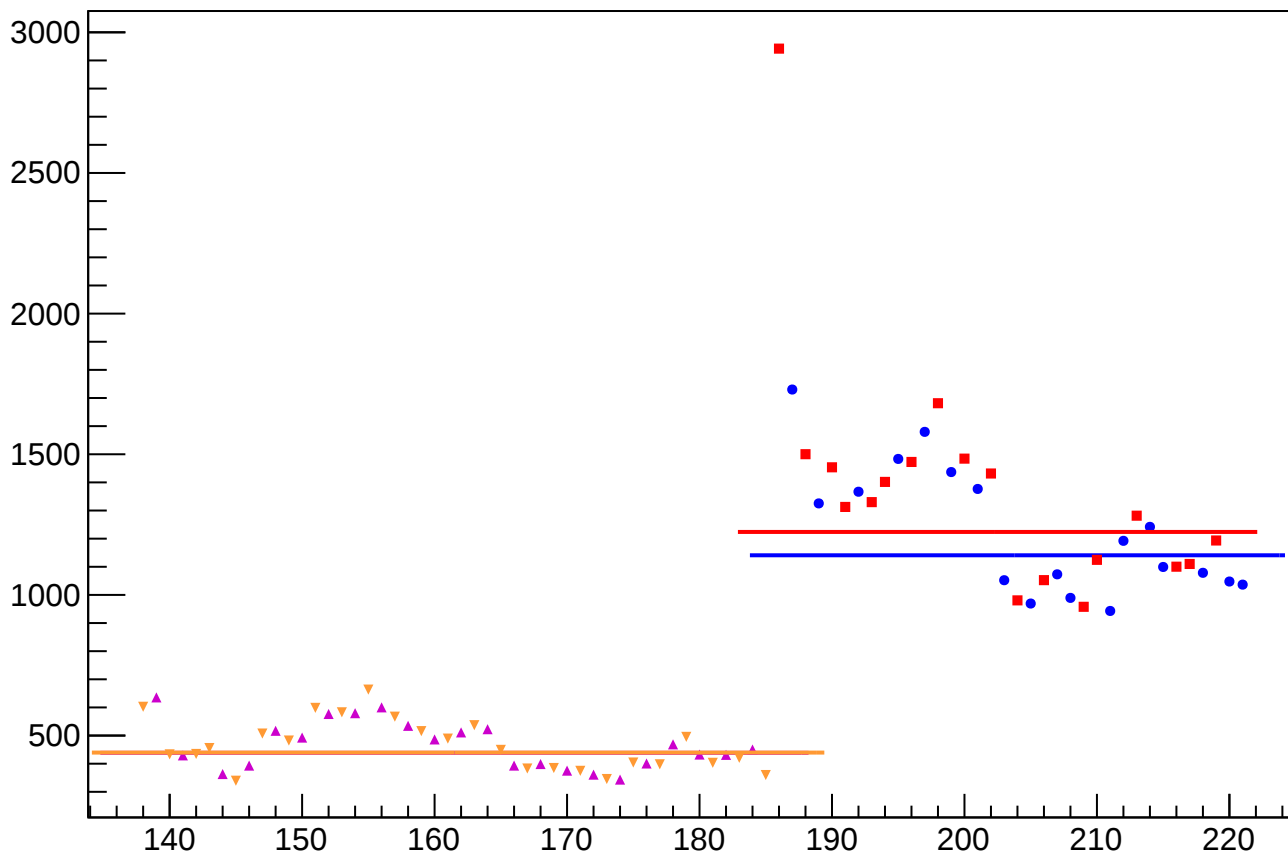
Right: -31.377 ± 236.320 χ^2/NDF : 111.8/35

In: -108.107 ± 101.146 χ^2/NDF : 72.1/40

Out: -359.287 ± 99.964 χ^2/NDF : 141.9/42

All: -235.173 ± 71.100 χ^2/NDF : 217.1/83

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1140.888 $\pm$ 0.224 χ^2 /NDF: 636430.4/17

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24

Right Out: 1223.878 $\pm$ 0.250 χ^2 /NDF: 903197.8/17

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF:1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

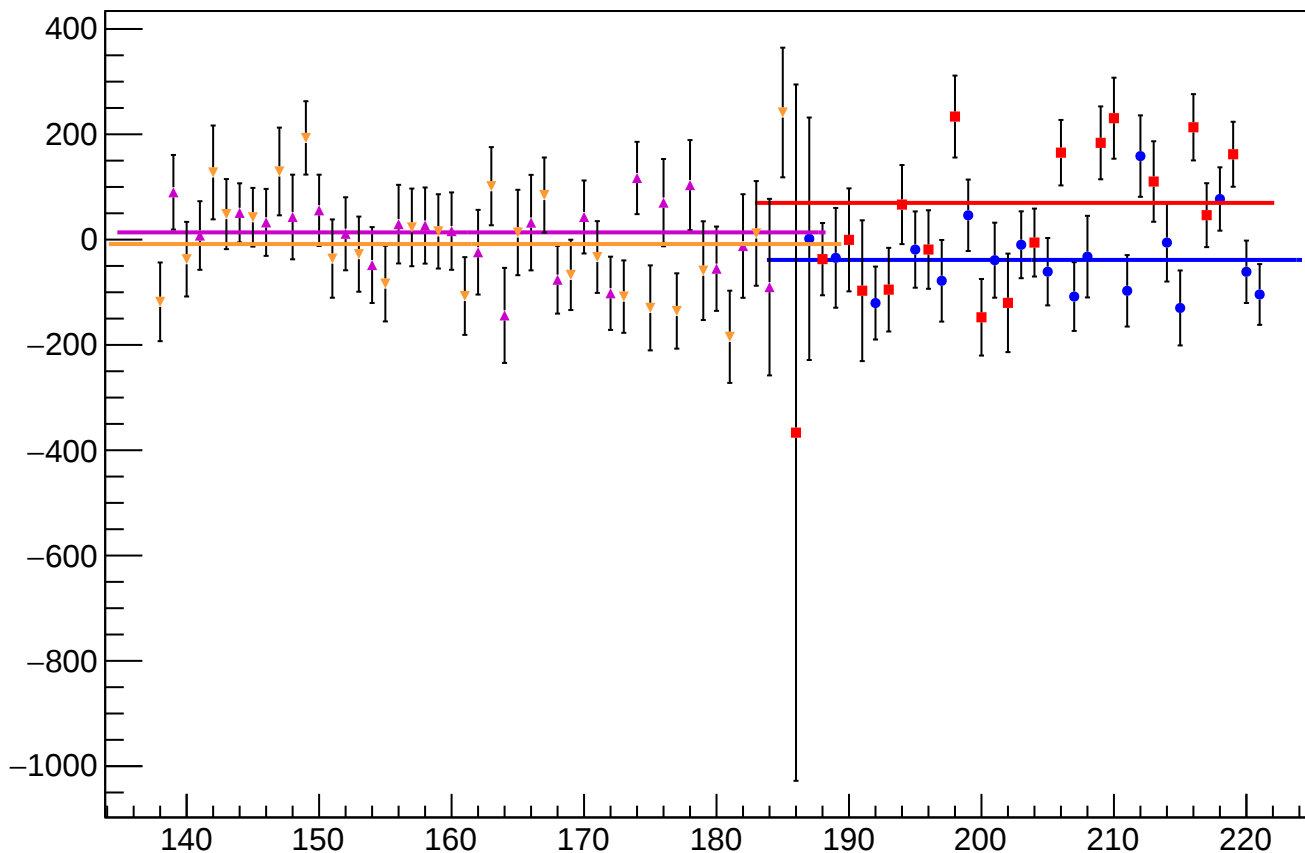
Right: 1177.887 $\pm$ 0.167 χ^2 /NDF: 1600566.4/35

In: 509.848 $\pm$ 0.072 χ^2 /NDF:10445382.4/40

Out: 502.096 $\pm$ 0.071 χ^2 /NDF:11105282.3/42

All: 505.927 $\pm$ 0.050 χ^2 /NDF: 21556607.2/83

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -38.561 ± 16.598 χ^2/NDF : 19.0/17

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 69.741 ± 17.694 χ^2/NDF : 46.8/17

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

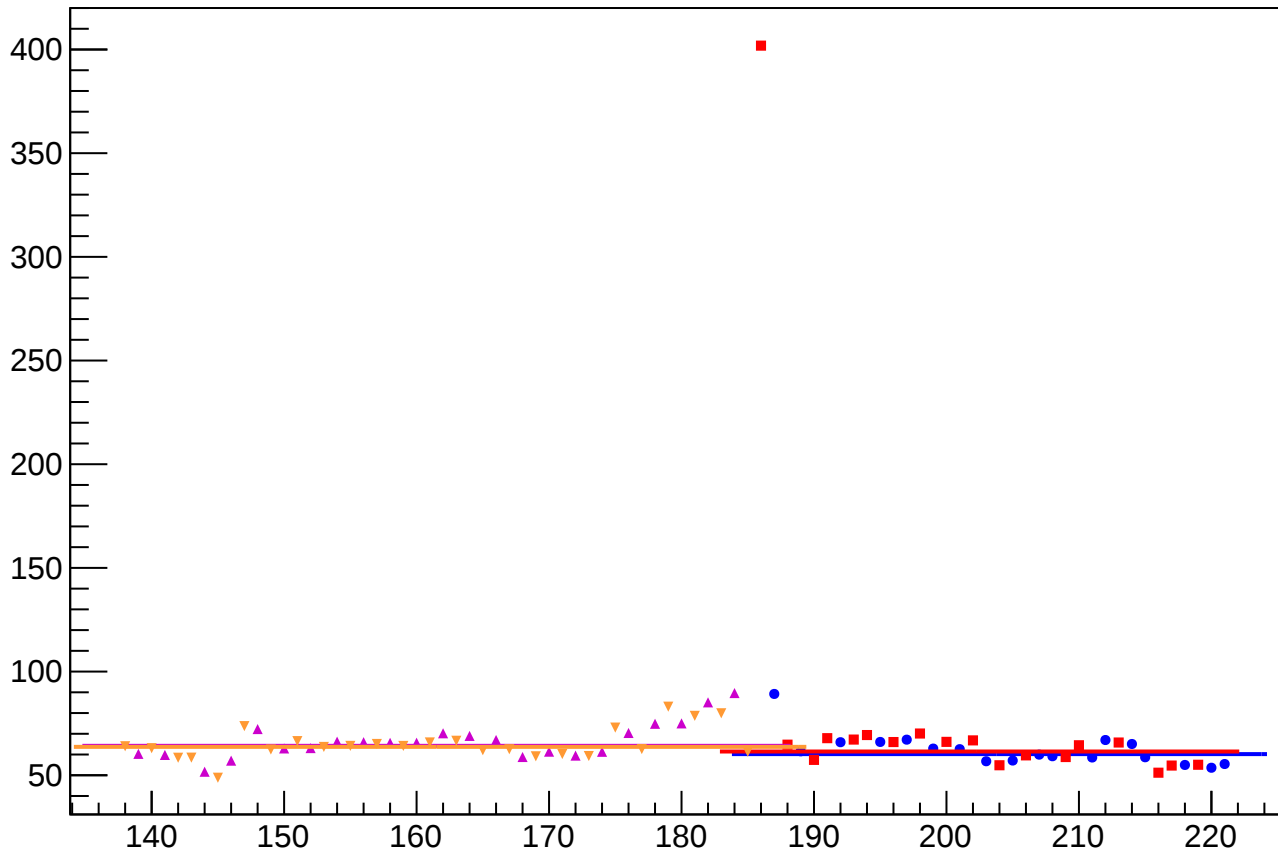
Right: 12.134 ± 12.105 χ^2/NDF : 85.8/35

In: -10.595 ± 11.320 χ^2/NDF : 40.6/40

Out: 24.101 ± 11.413 χ^2/NDF : 99.8/42

All: 6.611 ± 8.037 χ^2/NDF : 145.1/83

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 60.197 $\pm$ 0.012 χ^2 /NDF: 171185.3/17

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 61.453 $\pm$ 0.013 χ^2 /NDF: 757318.6/17

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

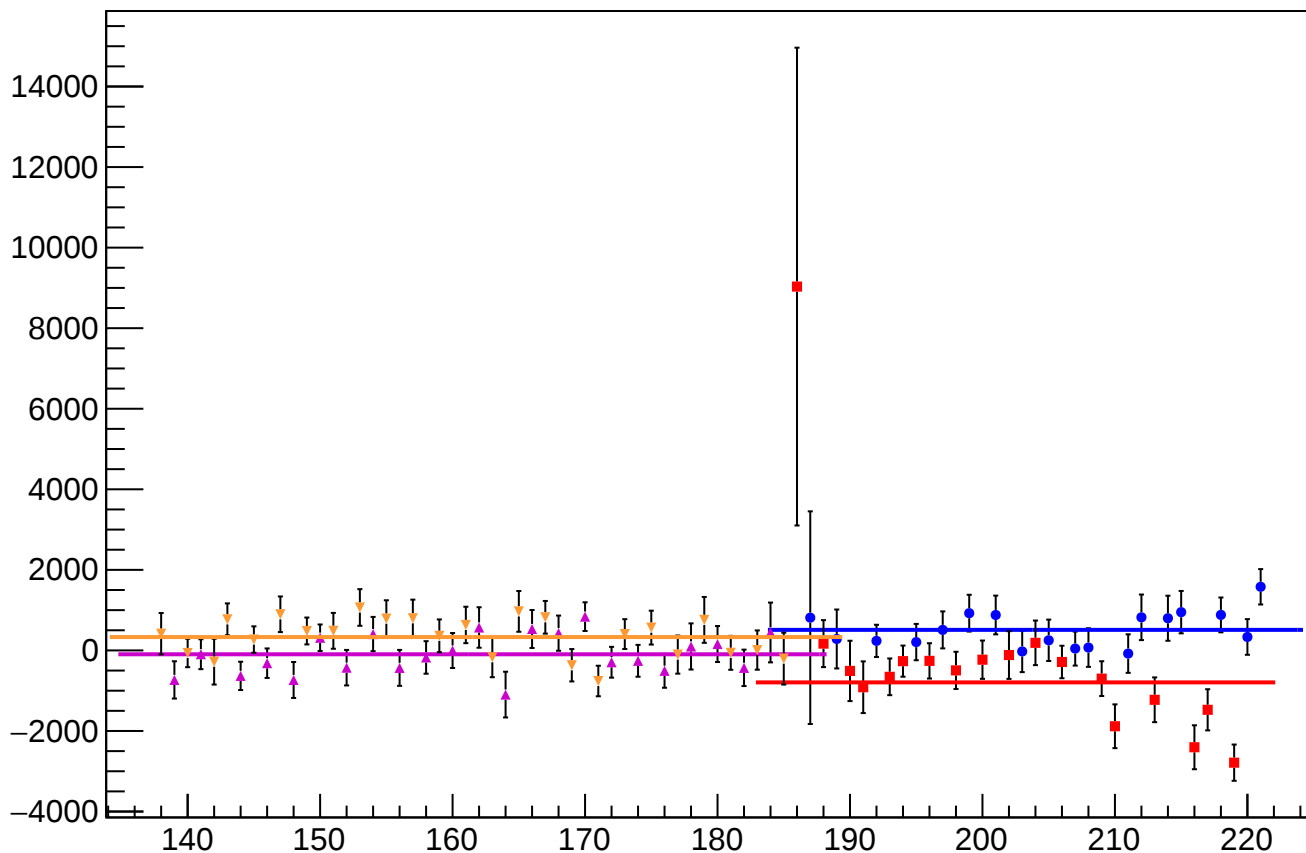
Right: 60.785 $\pm$ 0.009 χ^2 /NDF: 933862.6/35

In: 62.332 $\pm$ 0.008 χ^2 /NDF: 662731.1/40

Out: 62.763 $\pm$ 0.008 χ^2 /NDF: 1224525.8/42

All: 62.546 $\pm$ 0.006 χ^2 /NDF: 1888690.7/83

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 510.485 ± 115.830 $\chi^2/\text{NDF}: 15.4/17$

Left Out: 331.739 ± 86.071 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -793.762 ± 120.035 $\chi^2/\text{NDF}: 51.7/17$

Left In: -95.910 ± 88.656 $\chi^2/\text{NDF}: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/\text{NDF}: 70.5/47$

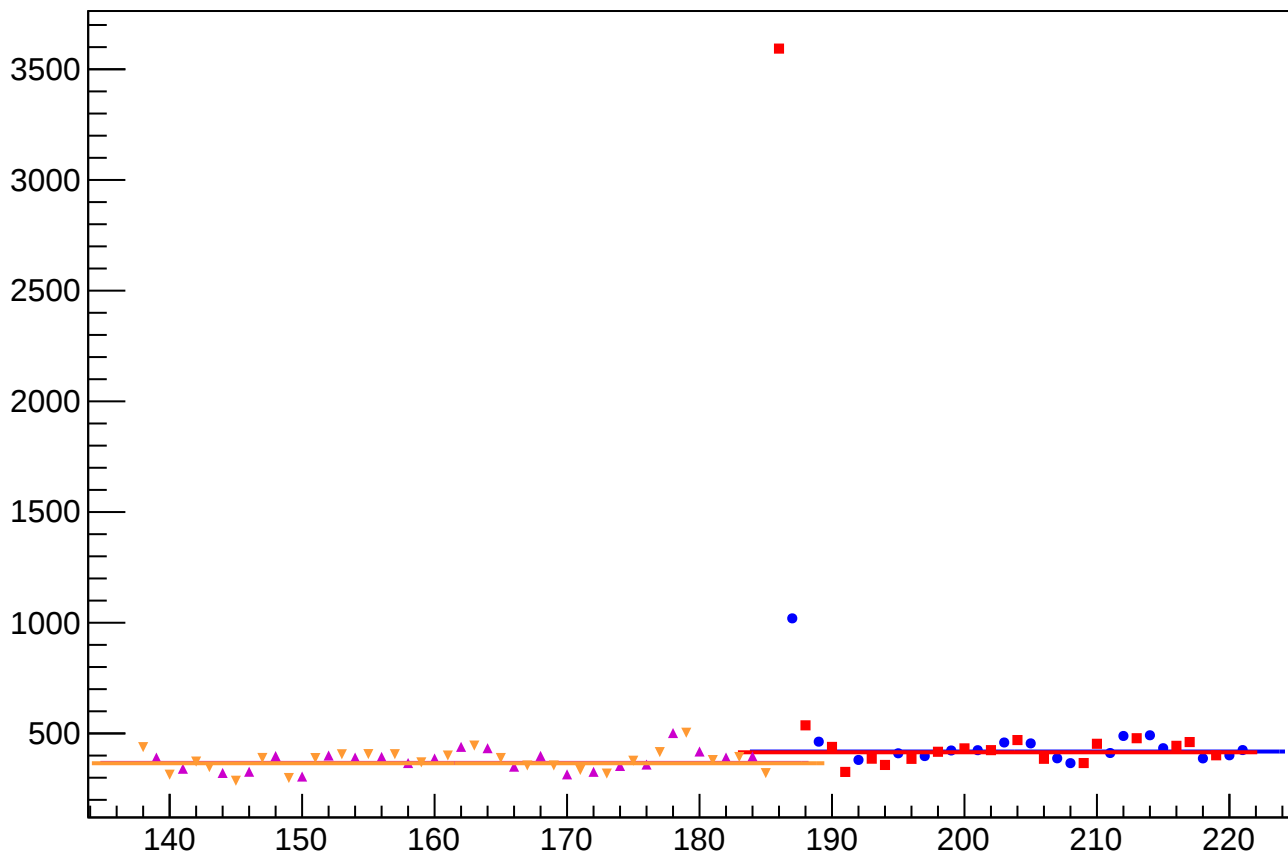
Right: -118.391 ± 83.351 $\chi^2/\text{NDF}: 128.3/35$

In: 128.103 ± 70.401 $\chi^2/\text{NDF}: 61.4/40$

Out: -50.444 ± 69.947 $\chi^2/\text{NDF}: 139.7/42$

All: 38.253 ± 49.620 $\chi^2/\text{NDF}: 204.3/83$

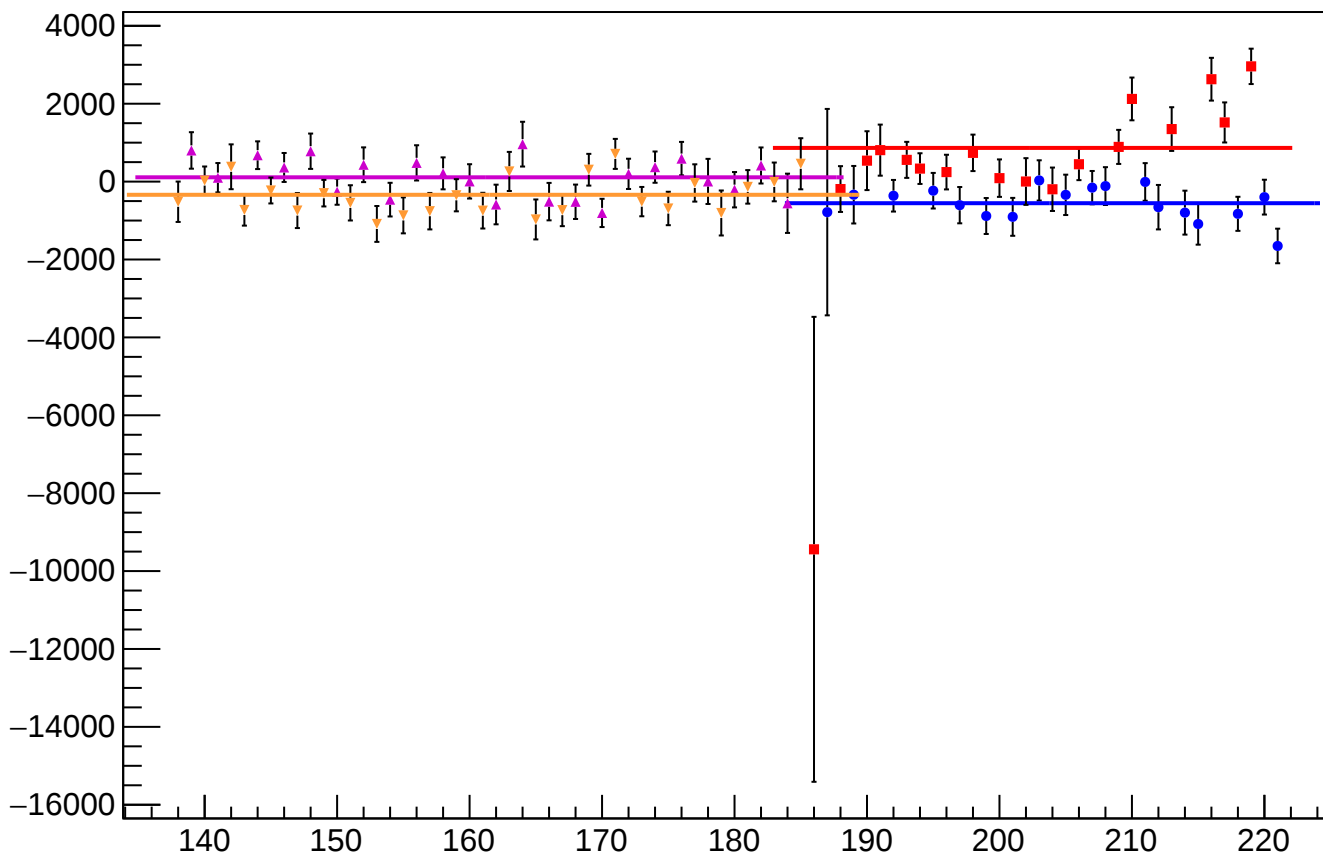
asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 418.272+/-0.082 χ^2/NDF : 272994.4/17
 Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24
 Right Out: 414.846+/-0.085 χ^2/NDF : 882088.9/17
 Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47
 Right: 416.620+/-0.059 χ^2/NDF : 1155927.2/35
 In: 385.893+/-0.050 χ^2/NDF : 998917.1/40
 Out: 382.161+/-0.049 χ^2/NDF : 1725079.7/42
 All: 384.015+/-0.035 χ^2/NDF : 2726826.3/83

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -554.428+/-117.137 χ^2 /NDF: 14.1/17

Left Out: -338.528+/-87.450 χ^2 /NDF:28.2/24

Right Out: 865.125+/-121.512 χ^2 /NDF: 59.2/17

Left In: 110.341+/-90.084 χ^2 /NDF:29.2/22

Left: -120.751+/-62.747 χ^2 /NDF: 70.2/47

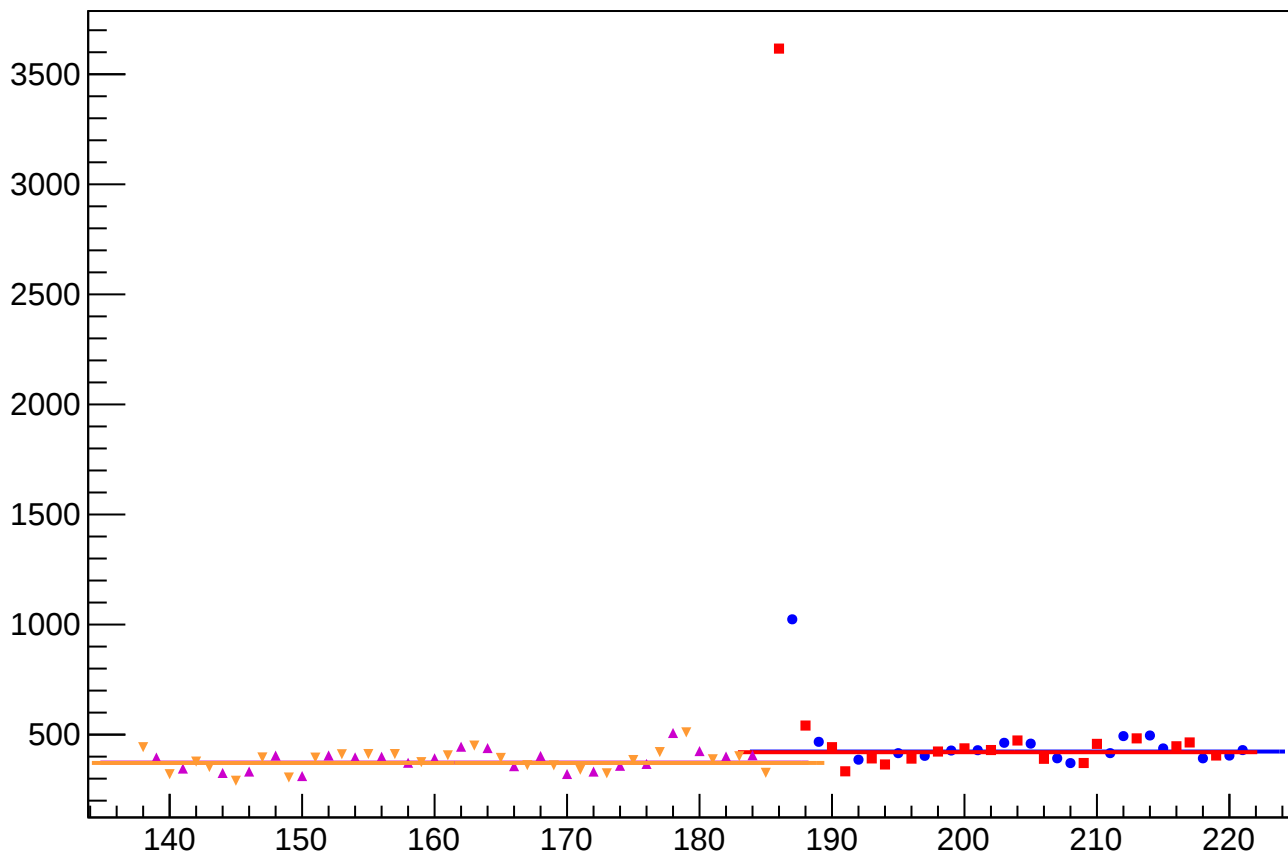
Right: 129.333+/-84.332 χ^2 /NDF: 144.1/35

In: -136.712+/-71.409 χ^2 /NDF:63.6/40

Out: 72.178+/-70.979 χ^2 /NDF:152.1/42

All: -31.637+/-50.341 χ^2 /NDF: 220.0/83

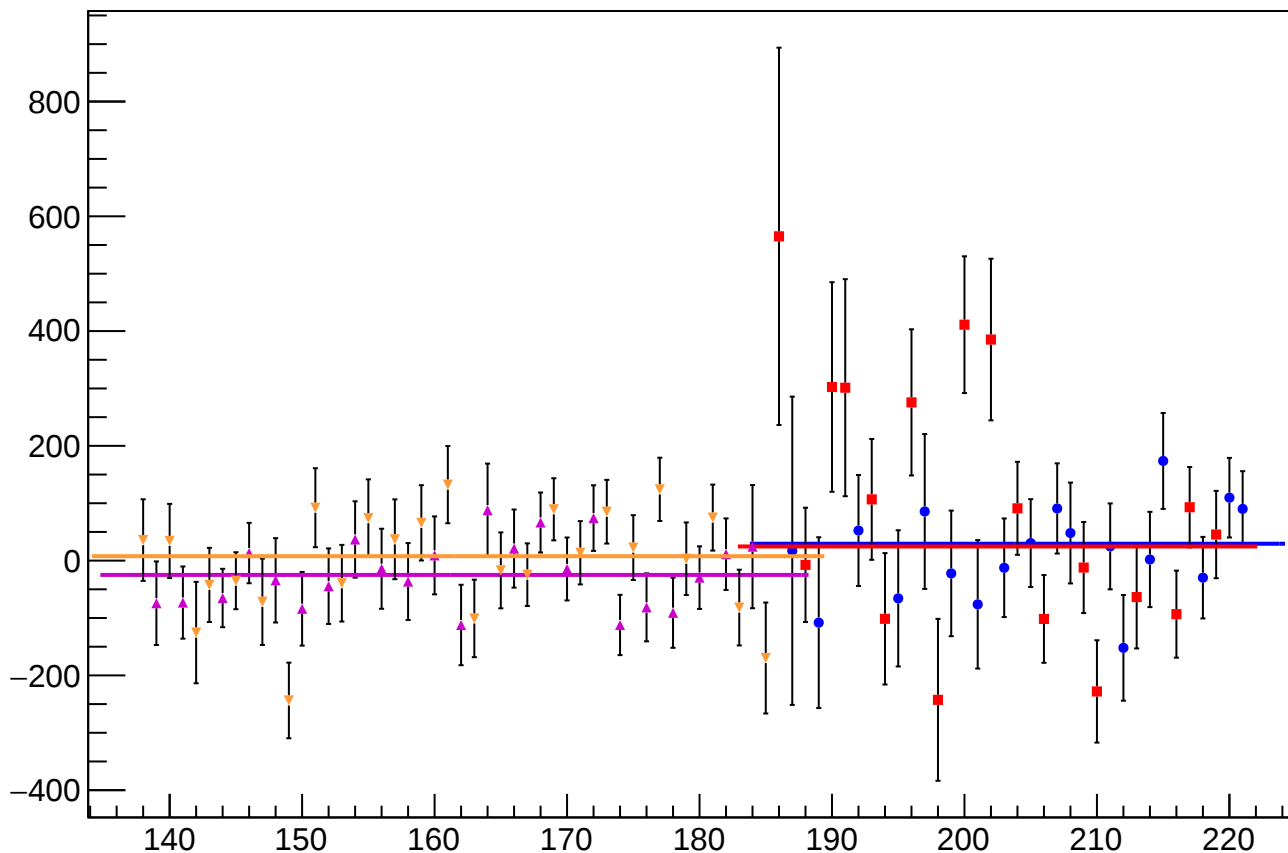
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 423.131+/-0.083 χ^2/NDF : 265377.0/17
 Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24
 Right Out: 420.139+/-0.086 χ^2/NDF : 865078.5/17
 Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47
 Right: 421.690+/-0.060 χ^2/NDF : 1131084.0/35
 In: 391.591+/-0.050 χ^2/NDF : 963470.1/40
 Out: 388.001+/-0.050 χ^2/NDF : 1681511.9/42
 All: 389.786+/-0.036 χ^2/NDF : 2647524.6/83

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 29.435 ± 20.965 $\chi^2/\text{NDF}: 13.6/17$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 24.678 ± 23.245 $\chi^2/\text{NDF}: 49.7/17$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

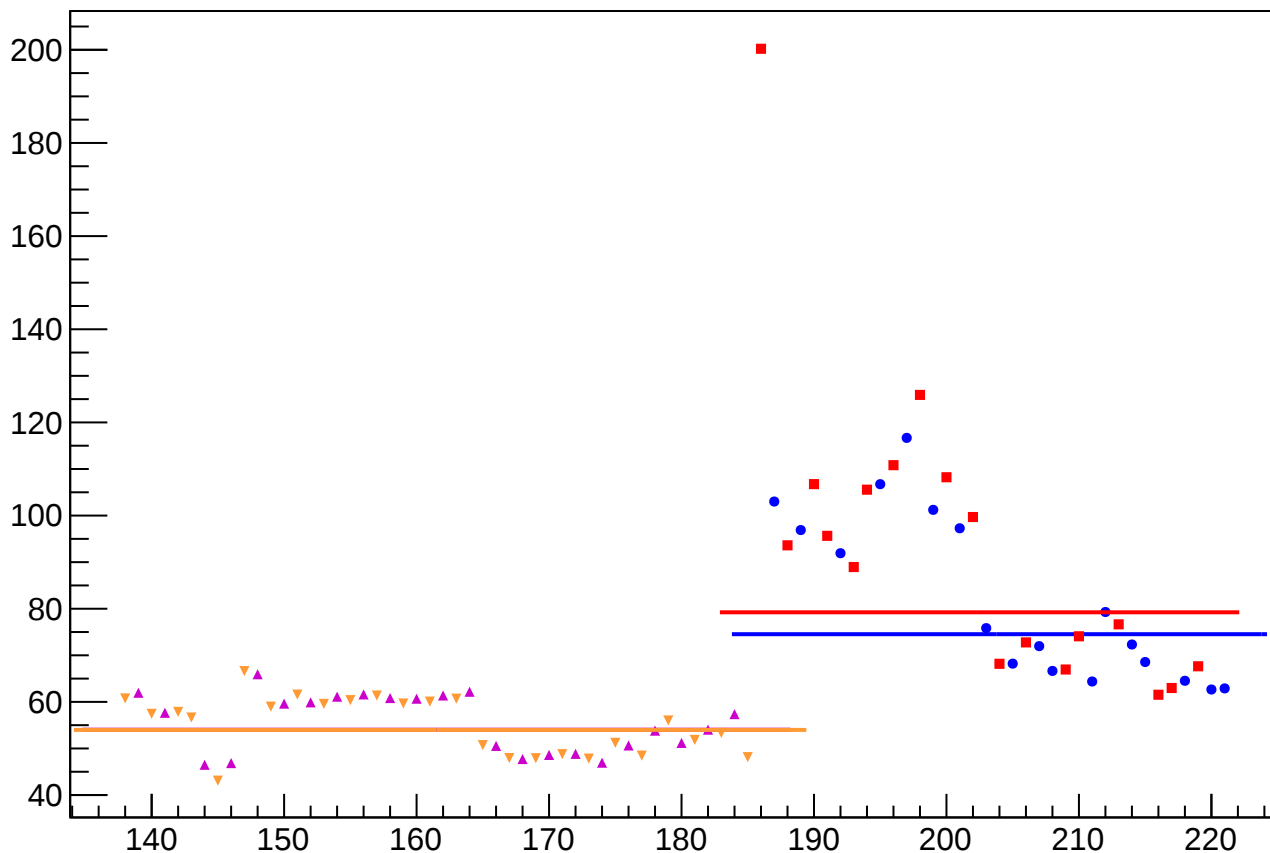
Right: 27.301 ± 15.568 $\chi^2/\text{NDF}: 63.3/35$

In: -9.753 ± 11.066 $\chi^2/\text{NDF}: 38.2/40$

Out: 11.600 ± 11.115 $\chi^2/\text{NDF}: 95.5/42$

All: 0.876 ± 7.842 $\chi^2/\text{NDF}: 135.5/83$

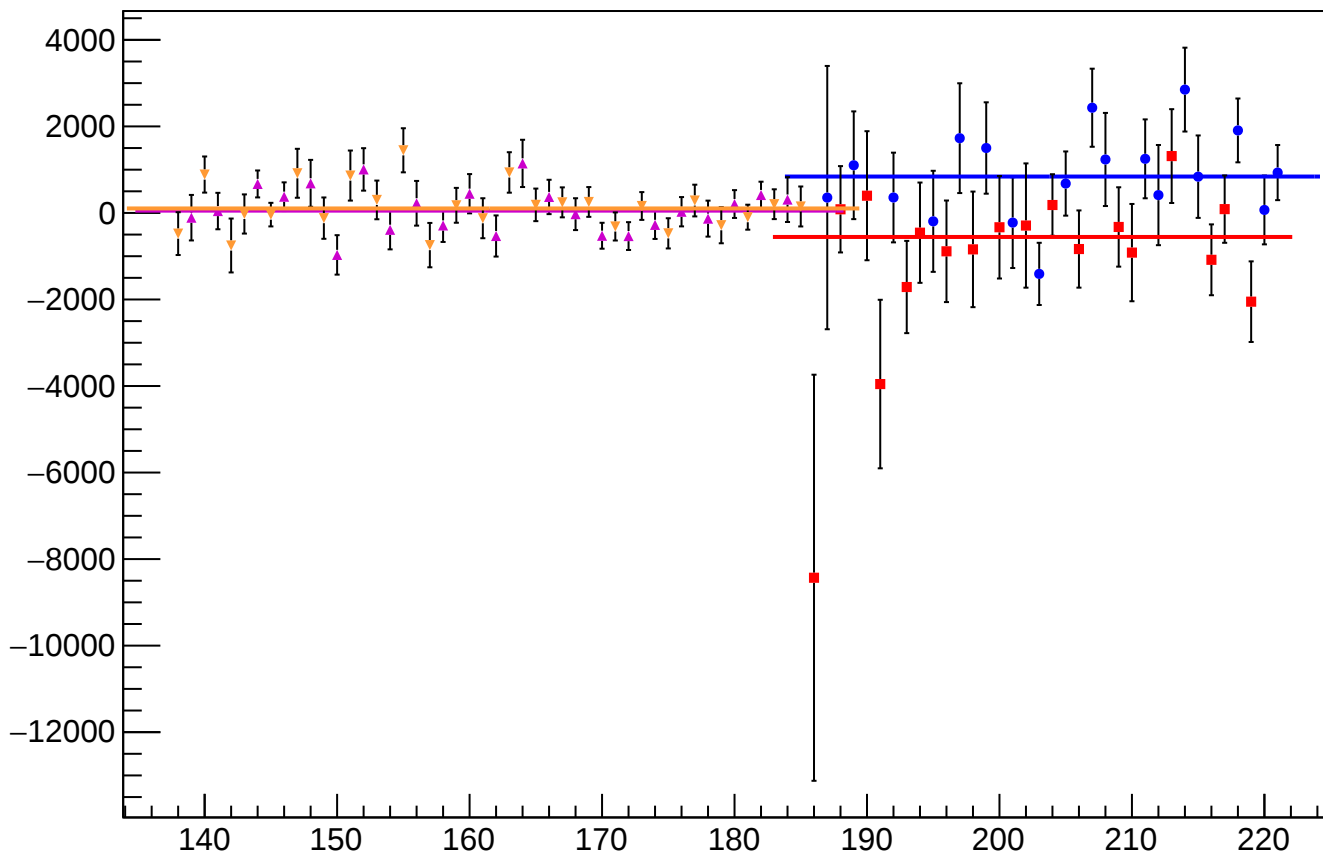
reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 74.535 $\pm$ 0.015 χ^2/NDF : 923624.9/17
 Left Out: 53.984 $\pm$ 0.009 χ^2/NDF : 458972.1/24
 Right Out: 79.233 $\pm$ 0.016 χ^2/NDF : 1369426.2/17
 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: 76.643 $\pm$ 0.011 χ^2/NDF : 2338106.0/35
 In: 59.741 $\pm$ 0.008 χ^2/NDF : 2747935.0/40
 Out: 59.757 $\pm$ 0.008 χ^2/NDF : 3648644.6/42
 All: 59.749 $\pm$ 0.006 χ^2/NDF : 6396581.6/83

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 841.281 $\pm$ 219.867 χ^2/NDF : 23.8/17

Left Out: 103.768 $\pm$ 79.344 χ^2/NDF :31.0/24

Right Out: -555.176 $\pm$ 248.217 χ^2/NDF : 16.1/17

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

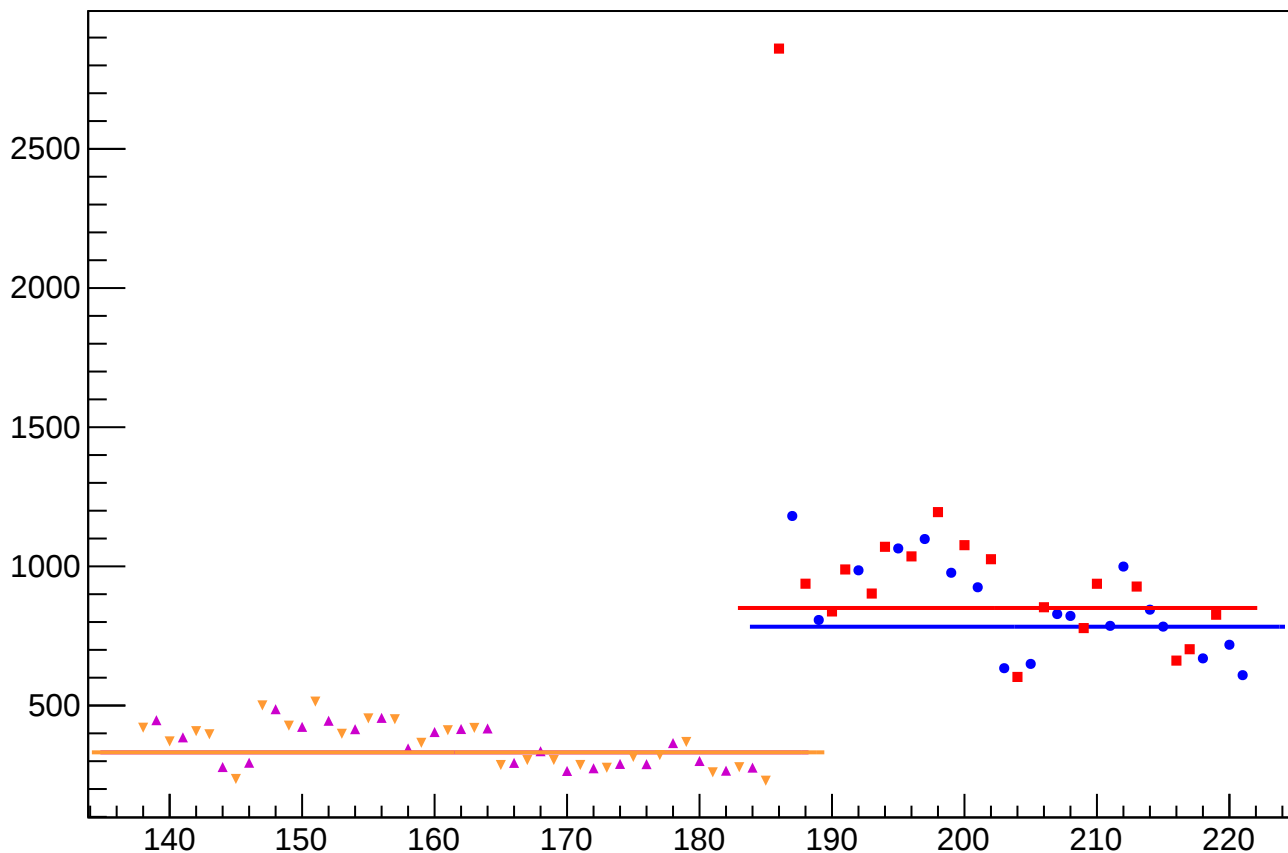
Right: 227.324 $\pm$ 164.584 χ^2/NDF : 57.6/35

In: 148.048 $\pm$ 76.172 χ^2/NDF :69.2/40

Out: 42.679 $\pm$ 75.577 χ^2/NDF :53.4/42

All: 94.950 $\pm$ 53.650 χ^2/NDF : 123.5/83

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 783.155+/-0.155 χ^2/NDF : 900967.7/17

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 850.467+/-0.176 χ^2/NDF : 1212154.9/17

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

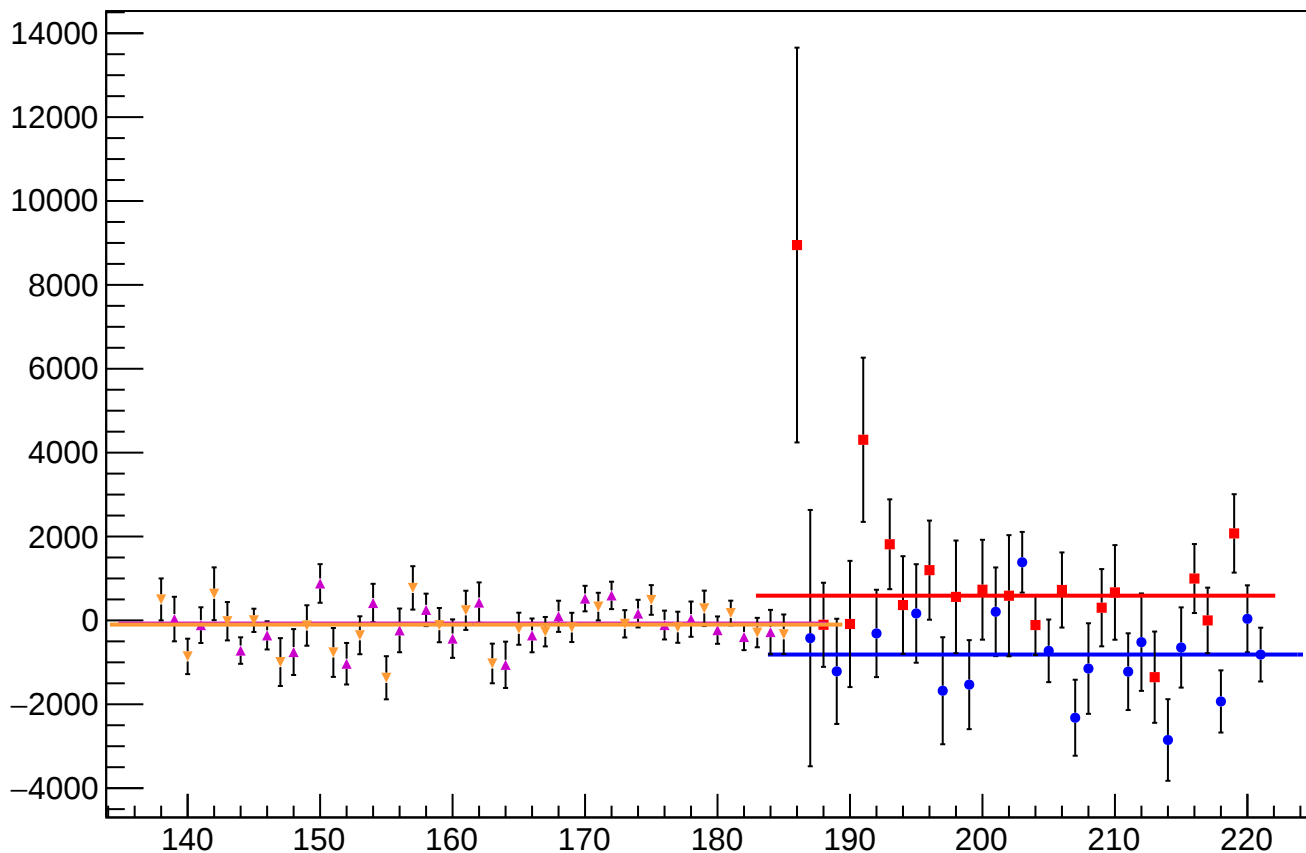
Right: 812.749+/-0.116 χ^2/NDF : 2195539.4/35

In: 385.856+/-0.054 χ^2/NDF : 9625386.6/40

Out: 379.857+/-0.053 χ^2/NDF : 10847809.8/42

All: 382.833+/-0.038 χ^2/NDF : 20479447.5/83

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -814.236 ± 221.018 χ^2/NDF : 23.1/17

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 589.759 ± 249.442 χ^2/NDF : 16.7/17

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

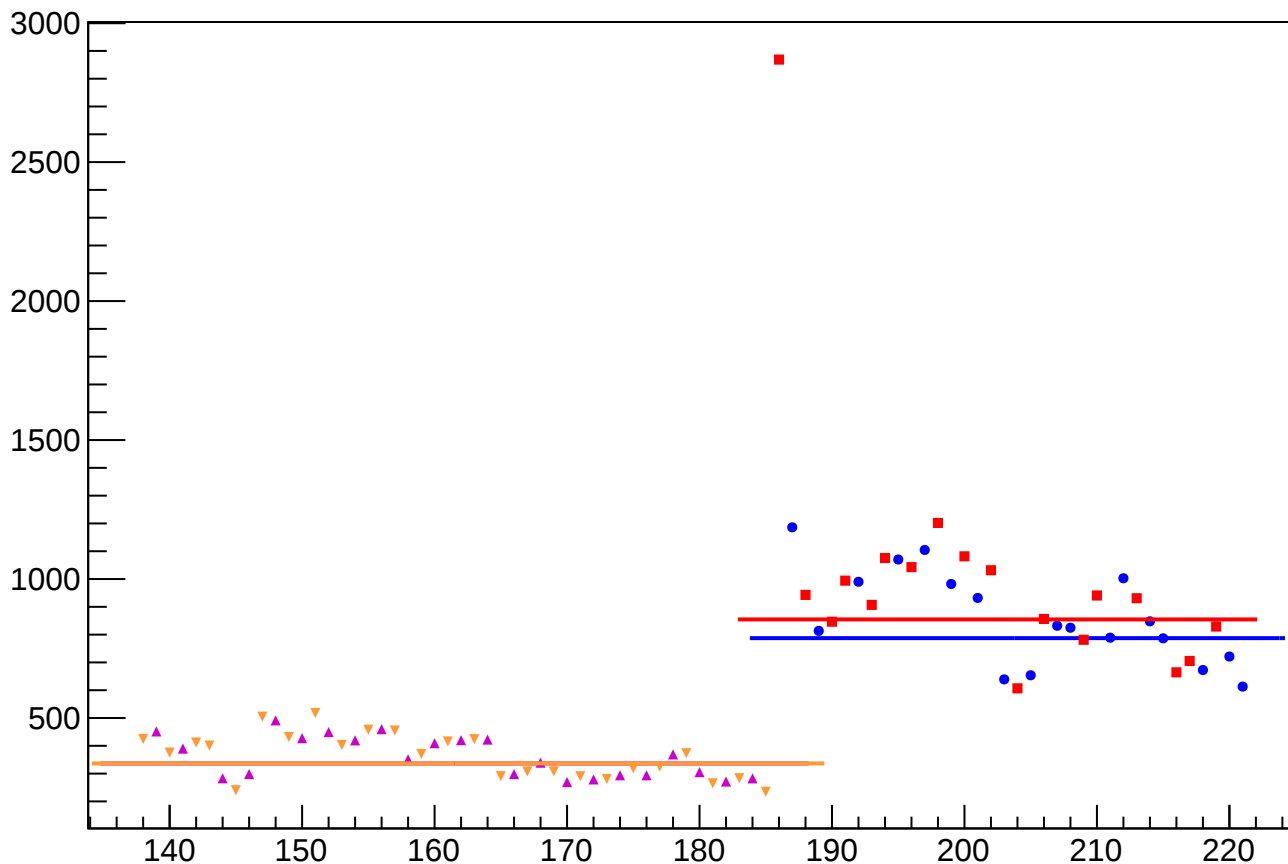
Right: -196.756 ± 165.424 χ^2/NDF : 57.5/35

In: -165.564 ± 77.142 χ^2/NDF : 65.0/40

Out: -34.849 ± 76.547 χ^2/NDF : 54.3/42

All: -99.701 ± 54.336 χ^2/NDF : 120.7/83

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 787.360 $\pm$ 0.156 χ^2 /NDF: 896558.3/17

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24

Right Out: 854.721 $\pm$ 0.176 χ^2 /NDF: 1211169.1/17

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

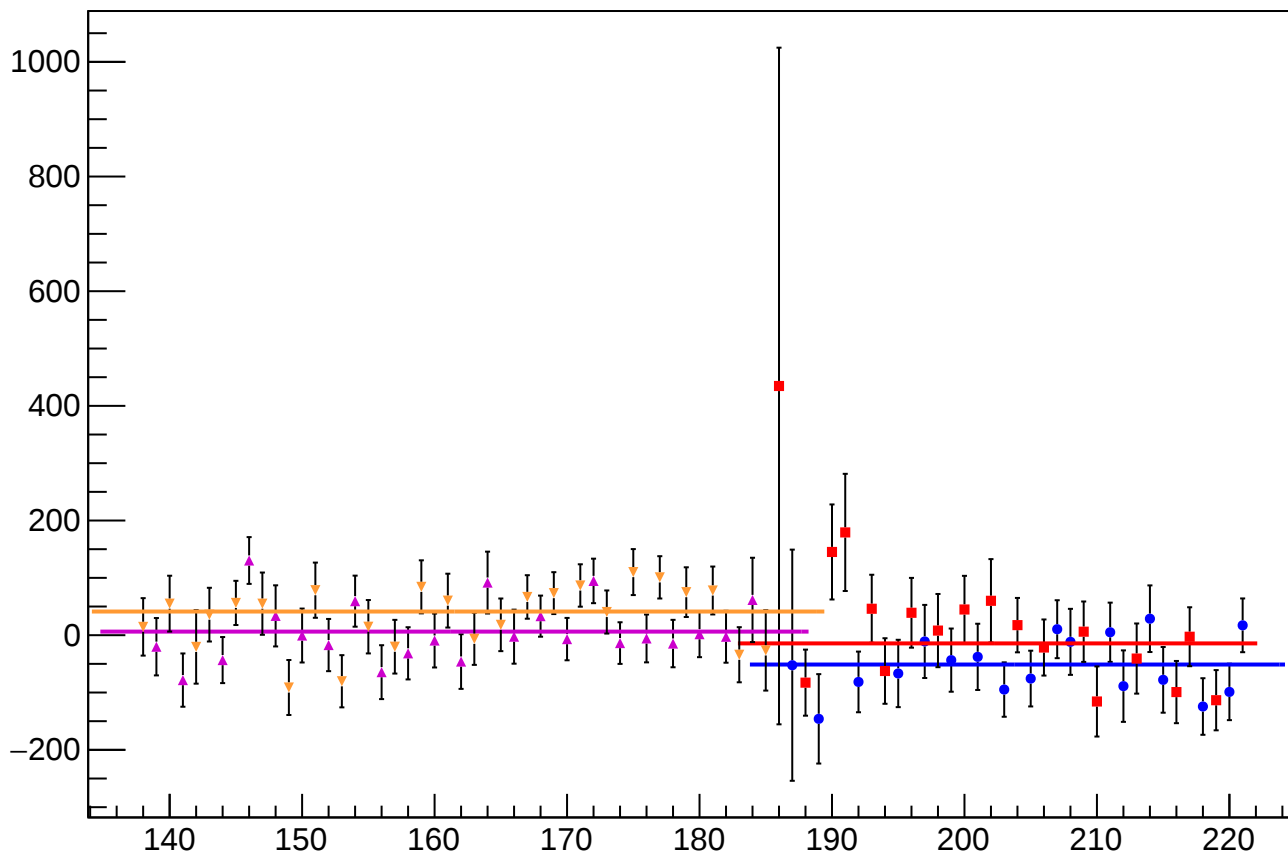
Right: 816.986 $\pm$ 0.117 χ^2 /NDF: 2189432.6/35

In: 391.371 $\pm$ 0.055 χ^2 /NDF:9476317.3/40

Out: 385.354 $\pm$ 0.054 χ^2 /NDF:10694644.0/42

All: 388.339 $\pm$ 0.038 χ^2 /NDF: 20177093.2/83

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -51.170 ± 13.151 $\chi^2/\text{NDF}: 14.3/17$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -14.322 ± 14.188 $\chi^2/\text{NDF}: 23.6/17$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

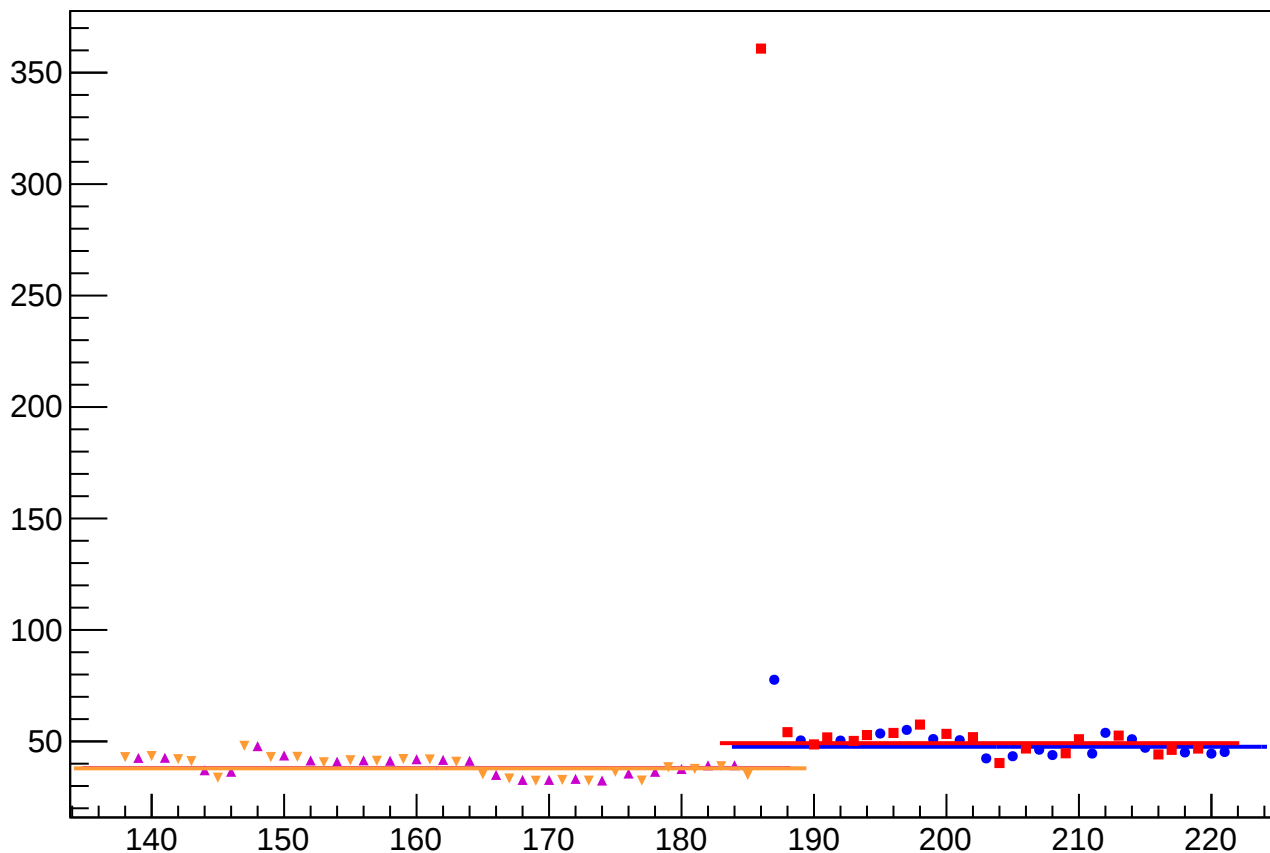
Right: -34.141 ± 9.645 $\chi^2/\text{NDF}: 41.6/35$

In: -12.546 ± 7.524 $\chi^2/\text{NDF}: 57.4/40$

Out: 25.608 ± 7.533 $\chi^2/\text{NDF}: 69.0/42$

All: 6.510 ± 5.324 $\chi^2/\text{NDF}: 139.3/83$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 47.595 $\pm$ 0.009 χ^2 /NDF: 215685.2/17

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.208 $\pm$ 0.010 χ^2 /NDF: 766684.0/17

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

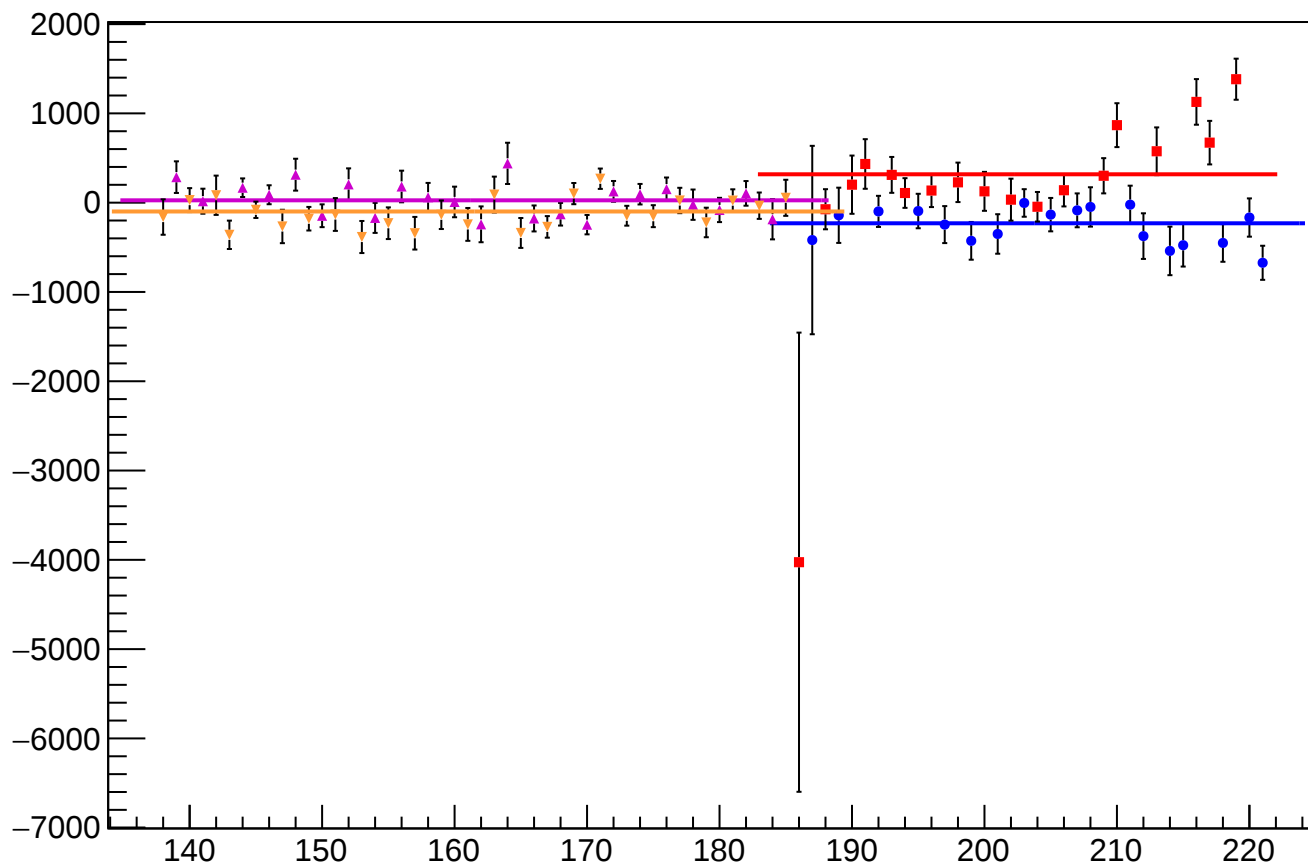
Right: 48.341 $\pm$ 0.007 χ^2 /NDF: 996270.9/35

In: 41.200 $\pm$ 0.005 χ^2 /NDF: 1315252.3/40

Out: 41.106 $\pm$ 0.005 χ^2 /NDF: 2162139.9/42

All: 41.153 $\pm$ 0.004 χ^2 /NDF: 3477549.0/83

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -230.948 ± 50.234 χ^2/NDF : 16.3/17

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 317.787 ± 52.247 χ^2/NDF : 56.5/17

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

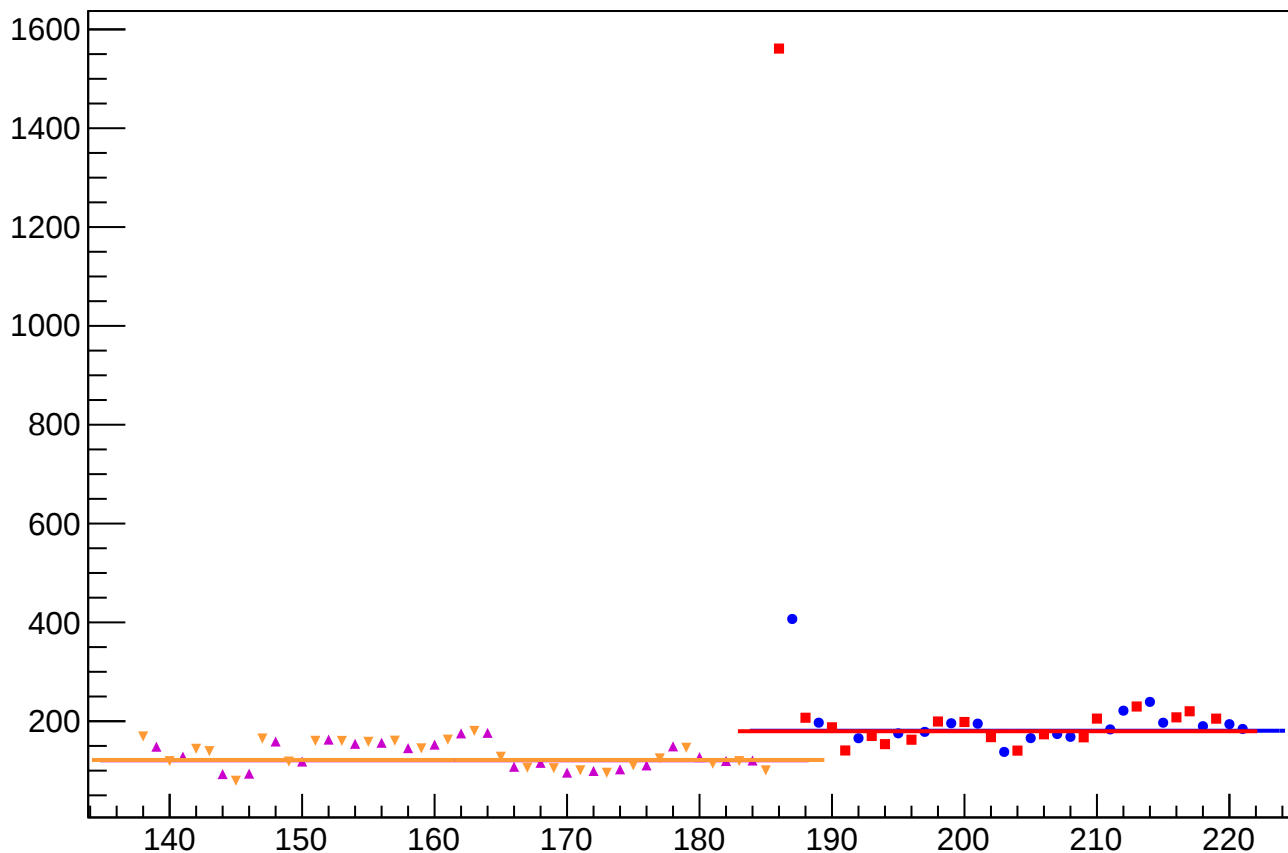
Right: 32.644 ± 36.211 χ^2/NDF : 130.1/35

In: -40.308 ± 25.550 χ^2/NDF : 66.4/40

Out: -0.146 ± 25.420 χ^2/NDF : 137.8/42

All: -20.124 ± 18.020 χ^2/NDF : 205.4/83

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 180.734 $\pm$ 0.036 χ^2 /NDF: 473097.3/17

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 179.720 $\pm$ 0.037 χ^2 /NDF: 1071984.2/17

Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47

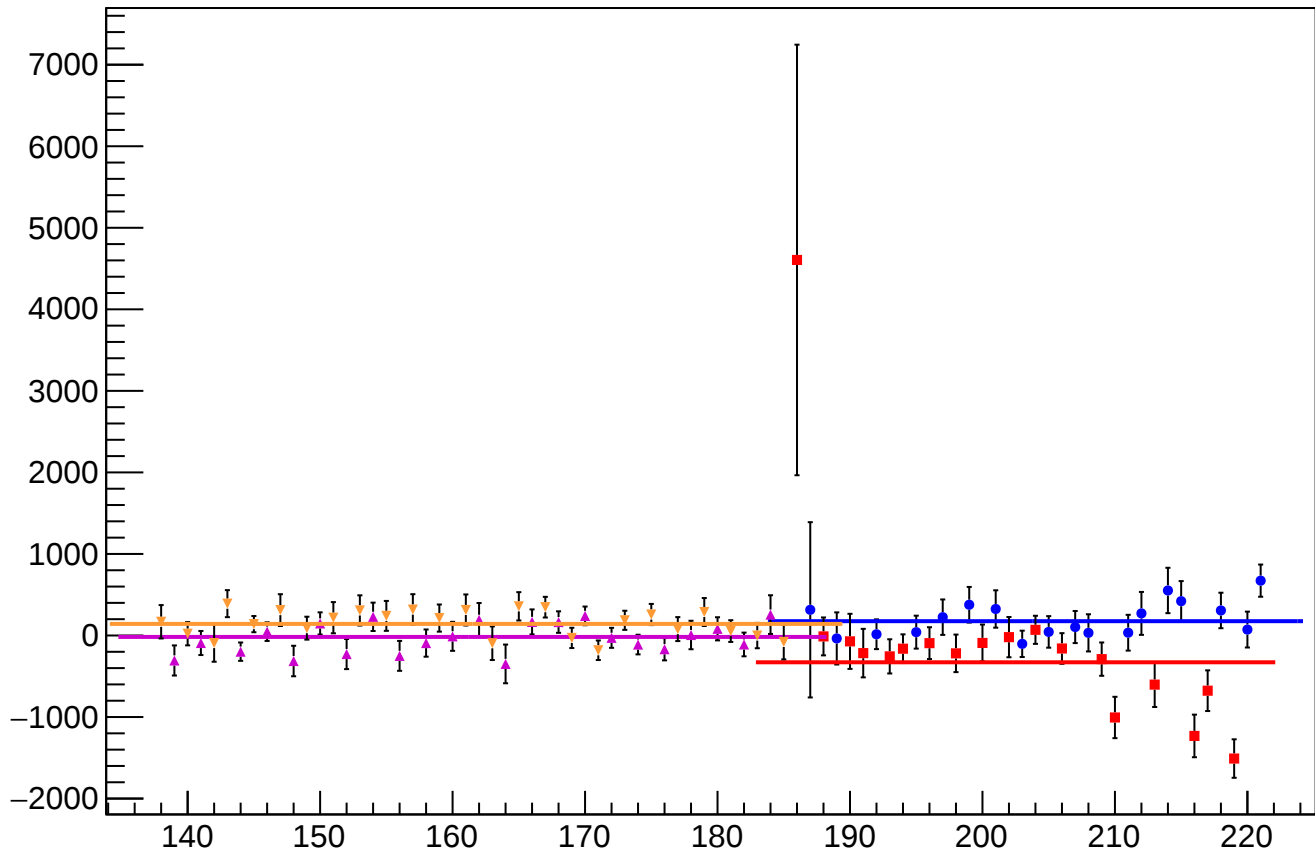
Right: 180.247 $\pm$ 0.026 χ^2 /NDF: 1545472.3/35

In: 136.399 $\pm$ 0.018 χ^2 /NDF:3957463.0/40

Out: 135.351 $\pm$ 0.018 χ^2 /NDF:4673035.2/42

All: 135.873 $\pm$ 0.013 χ^2 /NDF: 8632187.9/83

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 175.508 ± 52.086 $\chi^2/\text{NDF}: 17.3/17$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -328.661 ± 54.371 $\chi^2/\text{NDF}: 64.6/17$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

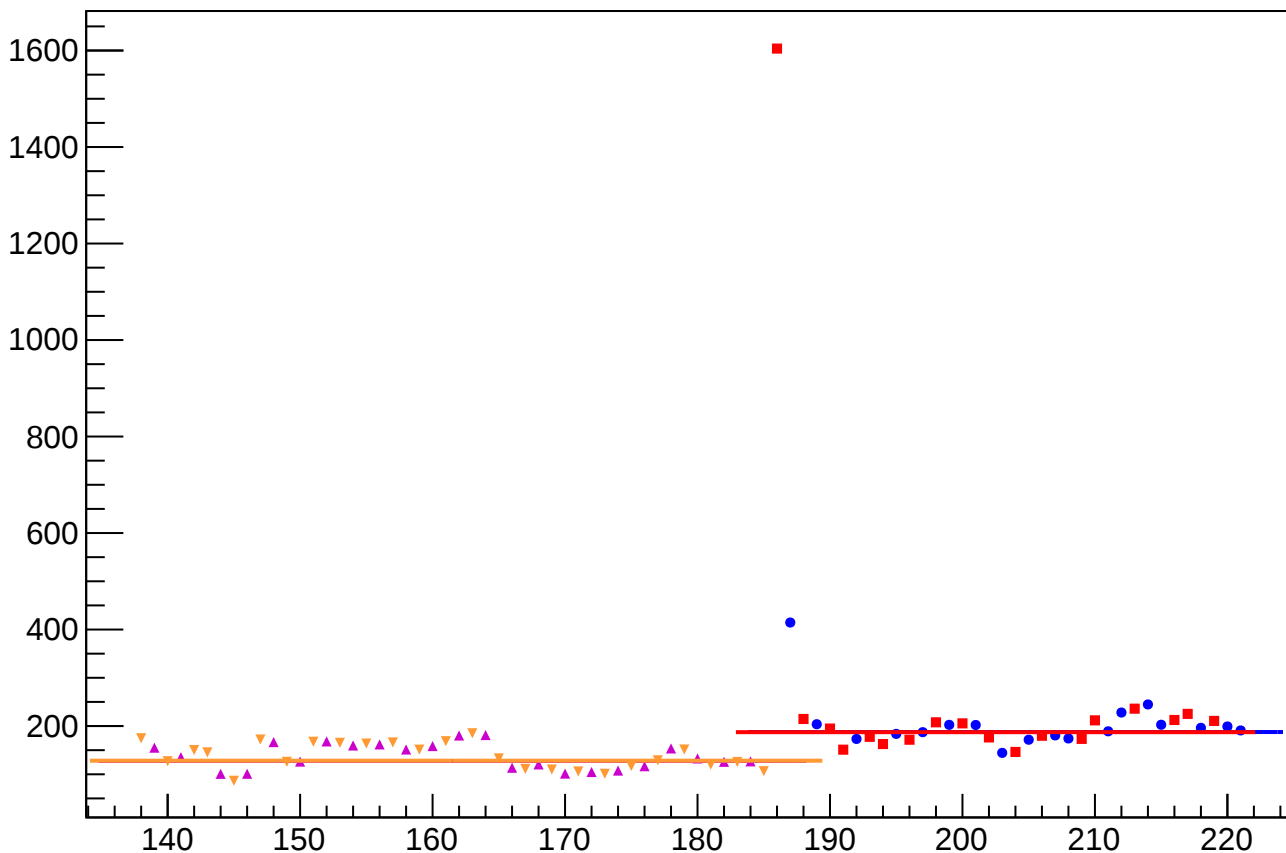
Right: -65.762 ± 37.612 $\chi^2/\text{NDF}: 126.7/35$

In: 33.354 ± 26.771 $\chi^2/\text{NDF}: 57.5/40$

Out: 28.937 ± 26.650 $\chi^2/\text{NDF}: 148.4/42$

All: 31.136 ± 18.887 $\chi^2/\text{NDF}: 206.0/83$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 187.600 $\pm$ 0.037 χ^2 /NDF: 439238.6/17

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 187.333 $\pm$ 0.038 χ^2 /NDF: 1014633.8/17

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF:1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

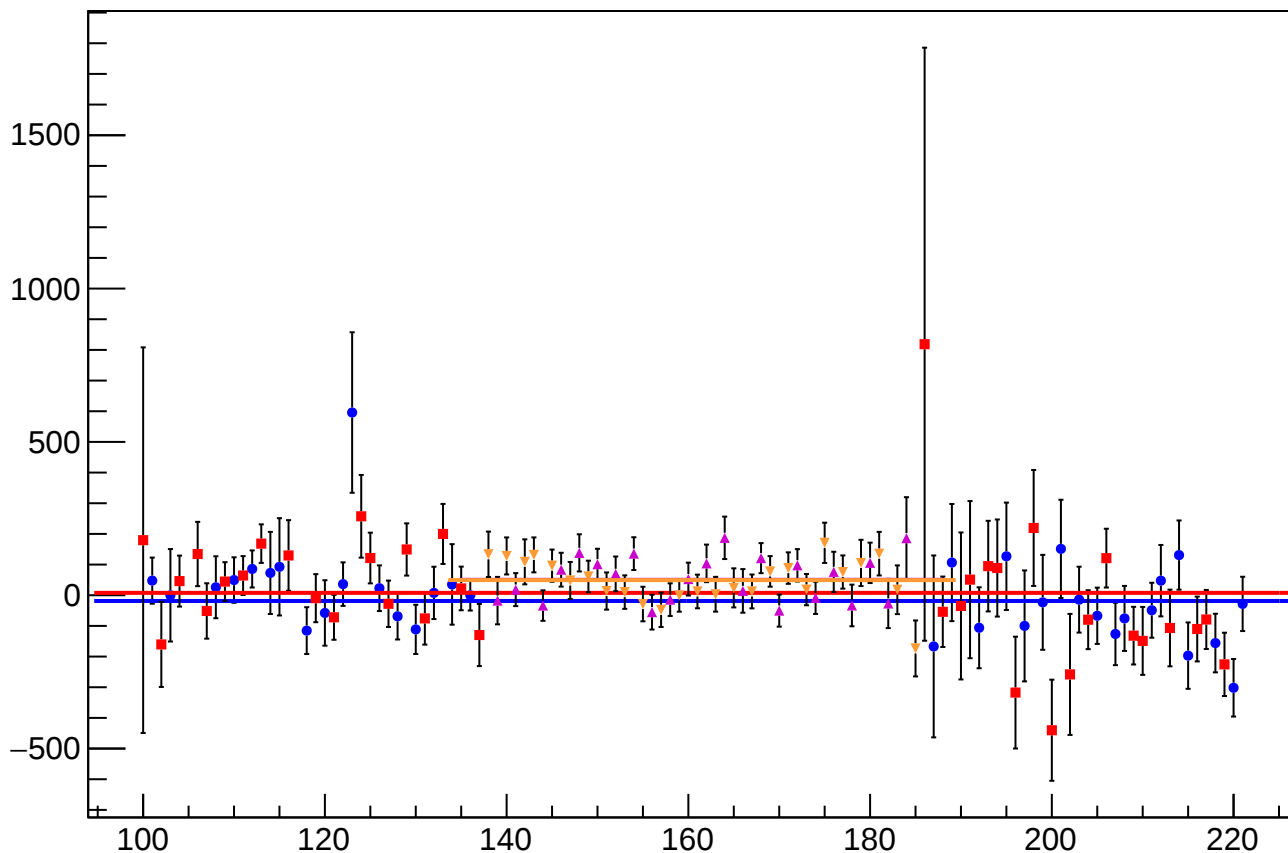
Right: 187.472 $\pm$ 0.027 χ^2 /NDF: 1453897.4/35

In: 143.409 $\pm$ 0.019 χ^2 /NDF:3631404.5/40

Out: 142.387 $\pm$ 0.019 χ^2 /NDF:4346401.2/42

All: 142.896 $\pm$ 0.013 χ^2 /NDF: 7979267.1/83

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -18.742 ± 16.226 $\chi^2/\text{NDF}: 37.0/34$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 7.771 ± 16.387 $\chi^2/\text{NDF}: 58.4/36$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

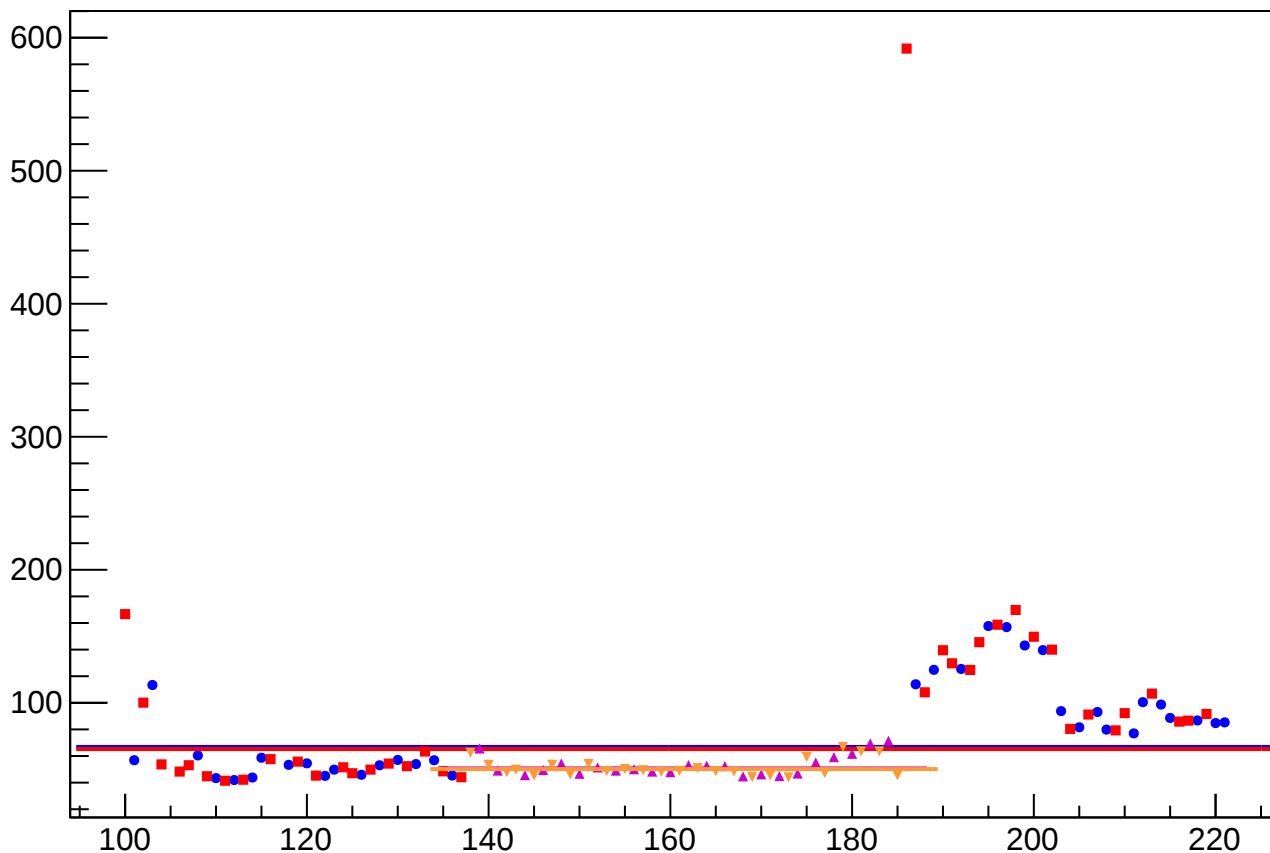
Right: -5.617 ± 11.530 $\chi^2/\text{NDF}: 96.7/71$

In: 25.245 ± 9.778 $\chi^2/\text{NDF}: 80.7/57$

Out: 35.177 ± 9.579 $\chi^2/\text{NDF}: 90.7/61$

All: 30.313 ± 6.843 $\chi^2/\text{NDF}: 172.0/119$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 66.821 $\pm$ 0.011 χ^2 /NDF: 5391683.9/34

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 65.242 $\pm$ 0.012 χ^2 /NDF: 6594054.2/36

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

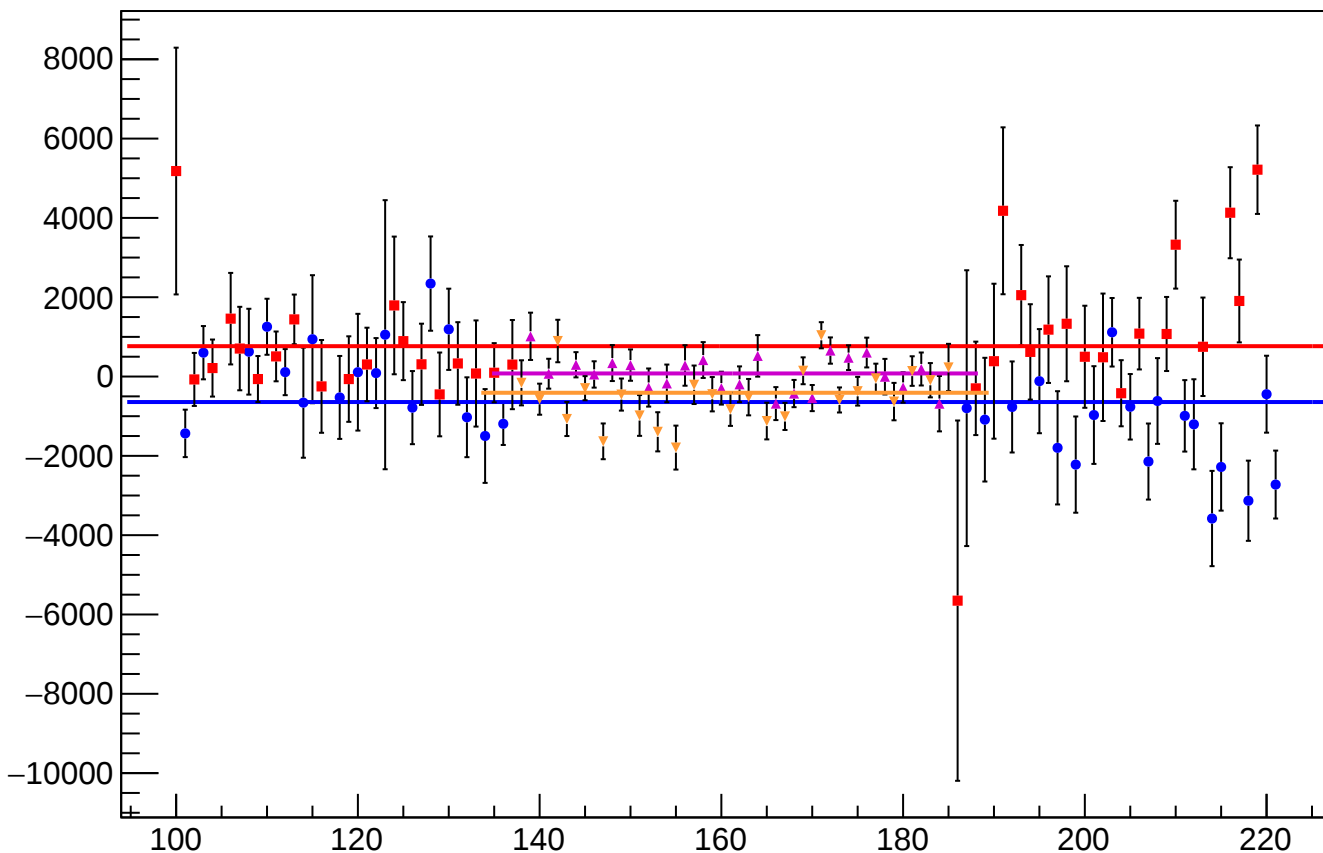
Right: 66.039 $\pm$ 0.008 χ^2 /NDF: 11995112.3/71

In: 56.544 $\pm$ 0.007 χ^2 /NDF: 7120850.7/57

Out: 55.332 $\pm$ 0.007 χ^2 /NDF: 8172677.1/61

All: 55.926 $\pm$ 0.005 χ^2 /NDF: 15309196.2/119

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -642.930 ± 162.500 $\chi^2/\text{NDF}: 58.8/34$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 765.543 ± 165.817 $\chi^2/\text{NDF}: 53.0/36$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

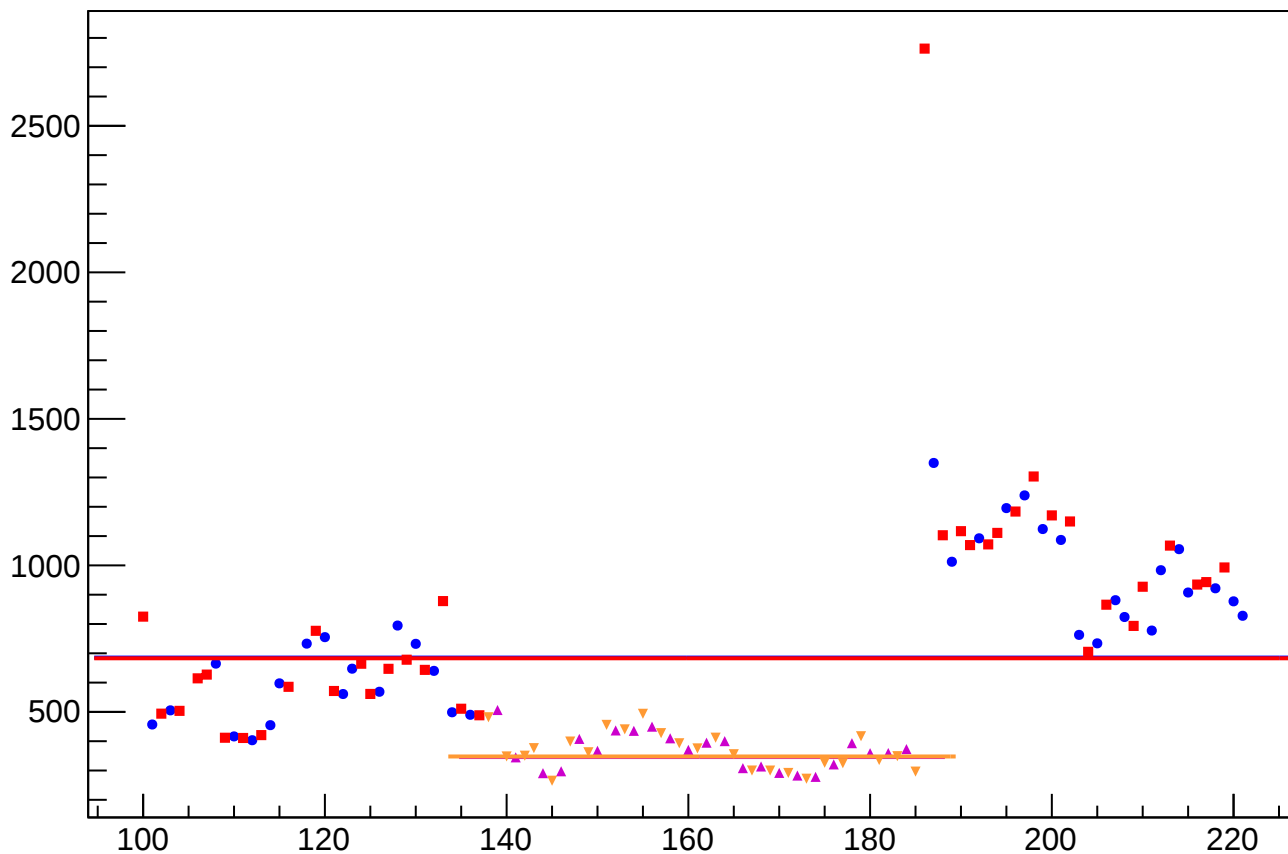
Right: 47.078 ± 116.060 $\chi^2/\text{NDF}: 148.5/71$

In: -74.326 ± 74.671 $\chi^2/\text{NDF}: 99.1/57$

Out: -176.760 ± 73.754 $\chi^2/\text{NDF}: 154.9/61$

All: -126.176 ± 52.473 $\chi^2/\text{NDF}: 255.0/119$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 685.375 $\pm$ 0.115 χ^2 /NDF: 3982322.7/34

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 682.962 $\pm$ 0.117 χ^2 /NDF: 4922869.9/36

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

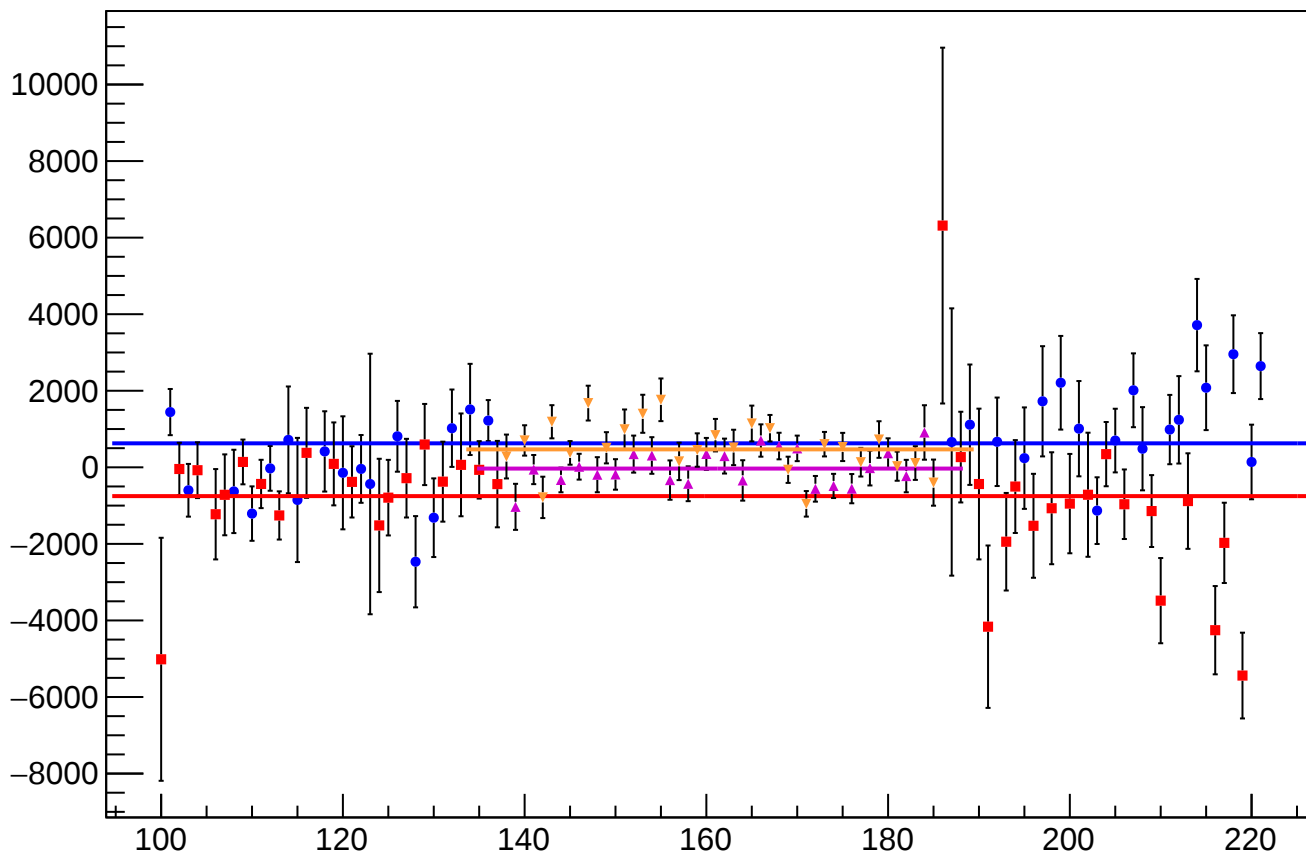
Right: 684.193 $\pm$ 0.082 χ^2 /NDF: 8905408.7/71

In: 417.623 $\pm$ 0.053 χ^2 /NDF:11766428.0/57

Out: 414.169 $\pm$ 0.052 χ^2 /NDF:12518569.7/61

All: 415.875 $\pm$ 0.037 χ^2 /NDF: 24287164.5/119

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 626.679 ± 163.596 $\chi^2/\text{NDF}: 56.8/34$

Left Out: 468.863 ± 83.295 $\chi^2/\text{NDF}: 57.5/24$

Right Out: -752.120 ± 167.026 $\chi^2/\text{NDF}: 55.3/36$

Left In: -32.801 ± 85.064 $\chi^2/\text{NDF}: 25.7/22$

Left: 223.299 ± 59.514 $\chi^2/\text{NDF}: 100.9/47$

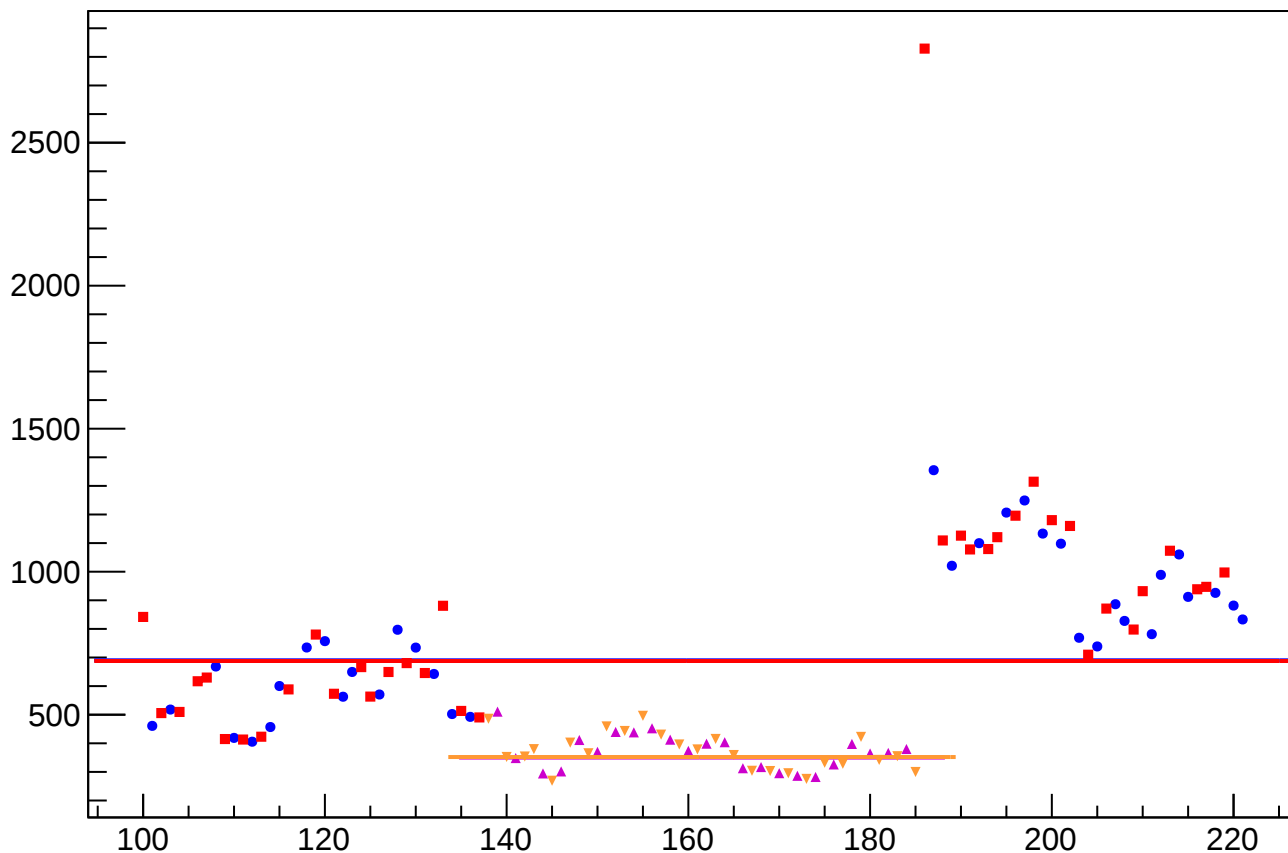
Right: -48.418 ± 116.874 $\chi^2/\text{NDF}: 146.8/71$

In: 107.550 ± 75.471 $\chi^2/\text{NDF}: 95.2/57$

Out: 225.685 ± 74.541 $\chi^2/\text{NDF}: 155.6/61$

All: 167.350 ± 53.034 $\chi^2/\text{NDF}: 252.1/119$

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 690.137+/-0.116 χ^2/NDF : 3969101.0/34

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 687.820+/-0.118 χ^2/NDF : 4915586.1/36

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

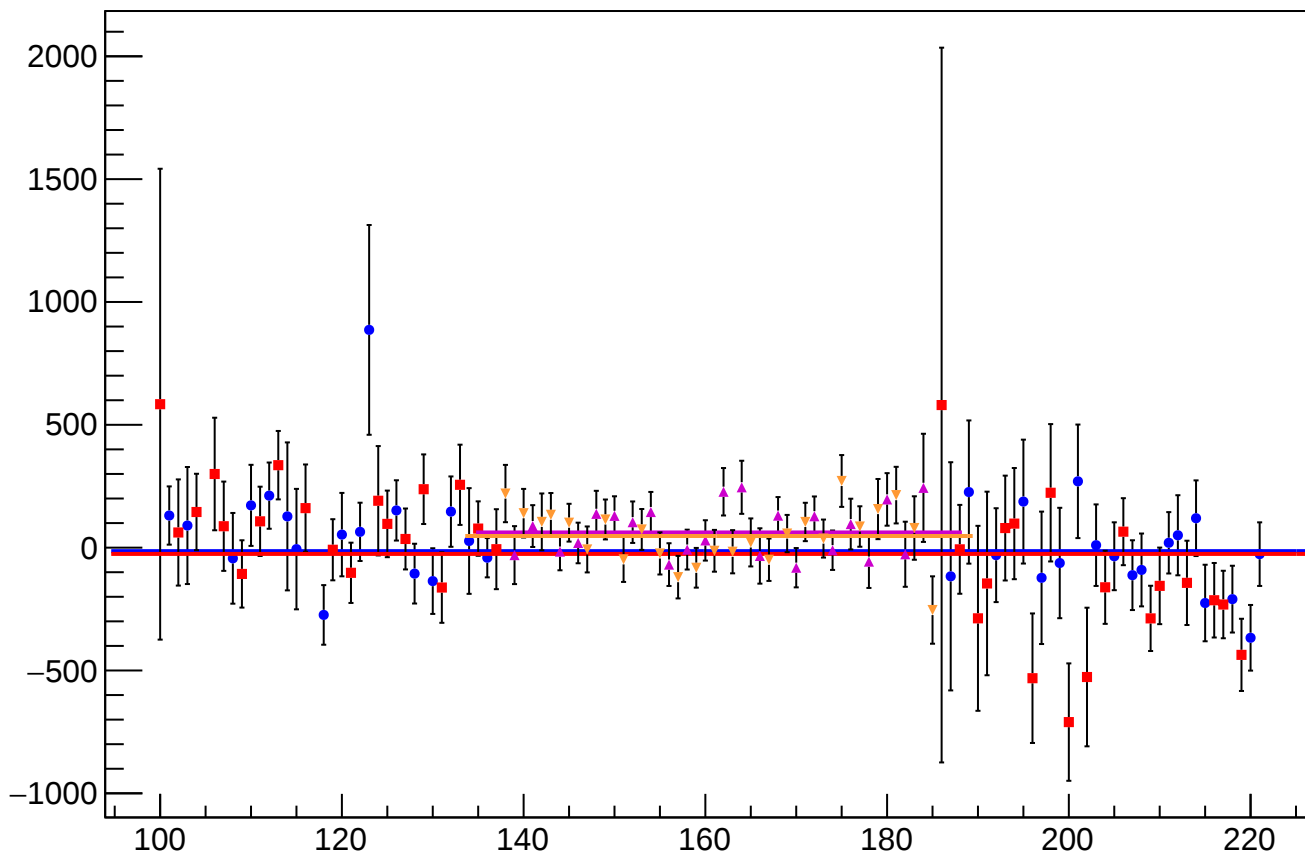
Right: 689.002+/-0.083 χ^2/NDF : 8884883.4/71

In: 422.514+/-0.053 χ^2/NDF : 11646613.6/57

Out: 418.896+/-0.053 χ^2/NDF : 12406867.6/61

All: 420.683+/-0.038 χ^2/NDF : 24055808.6/118

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -14.242 ± 25.959 χ^2/NDF : 36.0/34

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: -25.507 ± 27.284 χ^2/NDF : 59.0/36

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

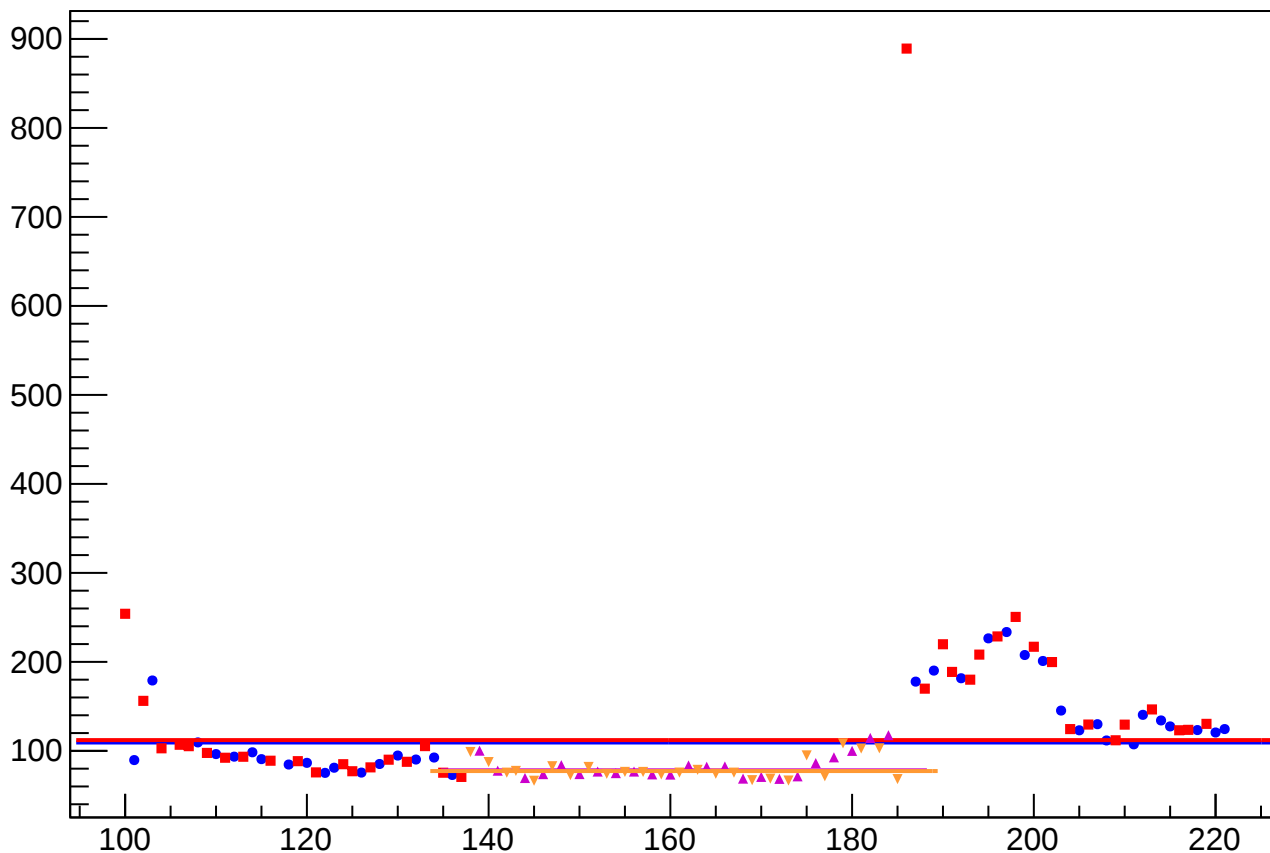
Right: -19.594 ± 18.807 χ^2/NDF : 95.1/71

In: 35.370 ± 15.310 χ^2/NDF : 65.6/57

Out: 24.877 ± 15.171 χ^2/NDF : 93.3/61

All: 30.075 ± 10.776 χ^2/NDF : 159.1/119

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 109.408 $\pm$ 0.018 χ^2 /NDF: 3699710.8/34

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 112.093 $\pm$ 0.019 χ^2 /NDF: 4513124.0/36

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF: 582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

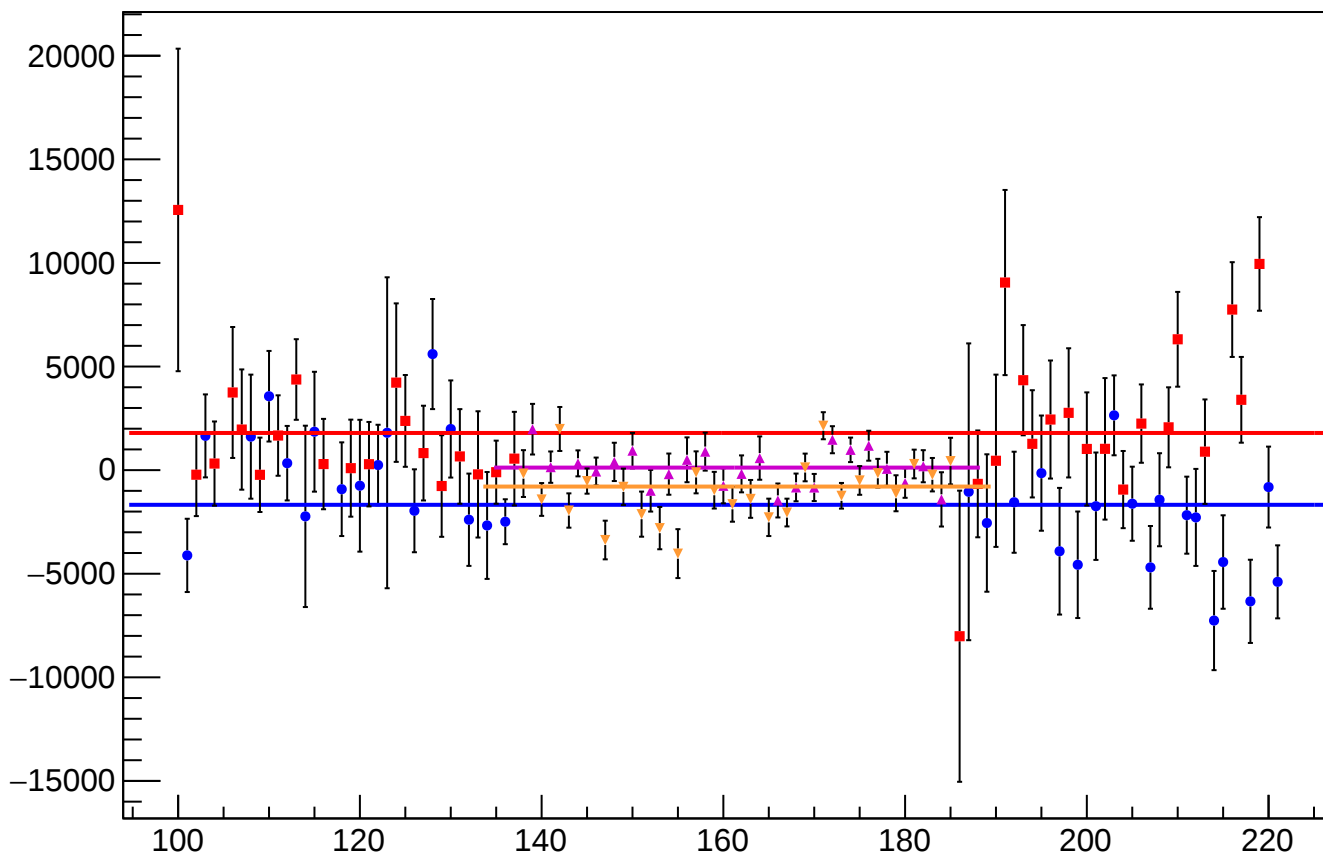
Right: 110.684 $\pm$ 0.013 χ^2 /NDF: 8223000.1/71

In: 89.015 $\pm$ 0.011 χ^2 /NDF: 6174490.3/57

Out: 88.068 $\pm$ 0.011 χ^2 /NDF: 7393480.6/61

All: 88.538 $\pm$ 0.008 χ^2 /NDF: 13571830.7/119

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1673.563 $\pm$ 371.517 χ^2 /NDF: 53.1/34

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1793.999 $\pm$ 389.842 χ^2 /NDF: 46.2/36

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

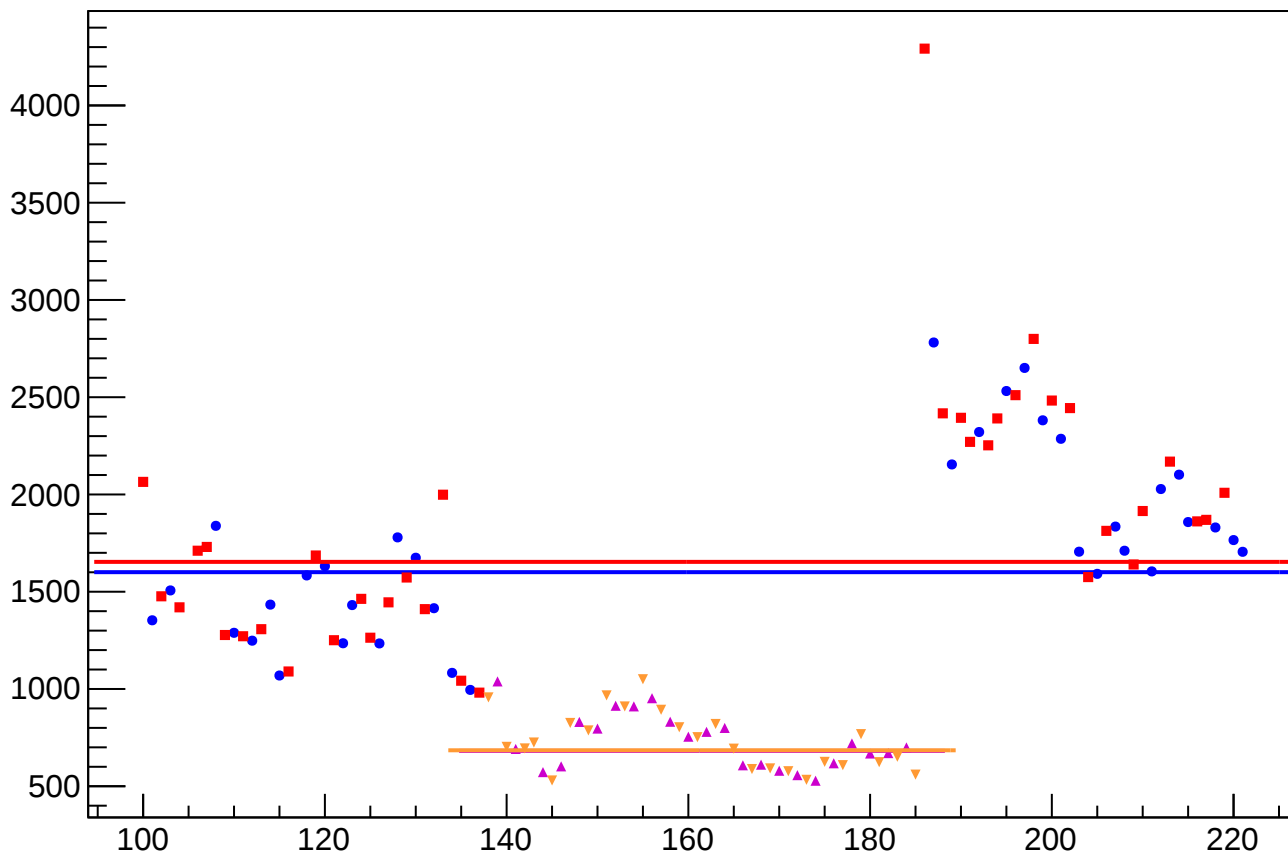
Right: -23.195 $\pm$ 268.947 χ^2 /NDF: 140.8/71

In: -177.234 $\pm$ 151.706 χ^2 /NDF:98.5/57

Out: -409.215 $\pm$ 150.116 χ^2 /NDF:150.3/61

All: -294.447 $\pm$ 106.706 χ^2 /NDF: 250.1/119

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1600.567 $\pm$ 0.263 χ^2 /NDF: 2447761.7/34

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF:1280146.2/24

Right Out: 1653.482 $\pm$ 0.276 χ^2 /NDF: 2905605.9/36

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF:1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

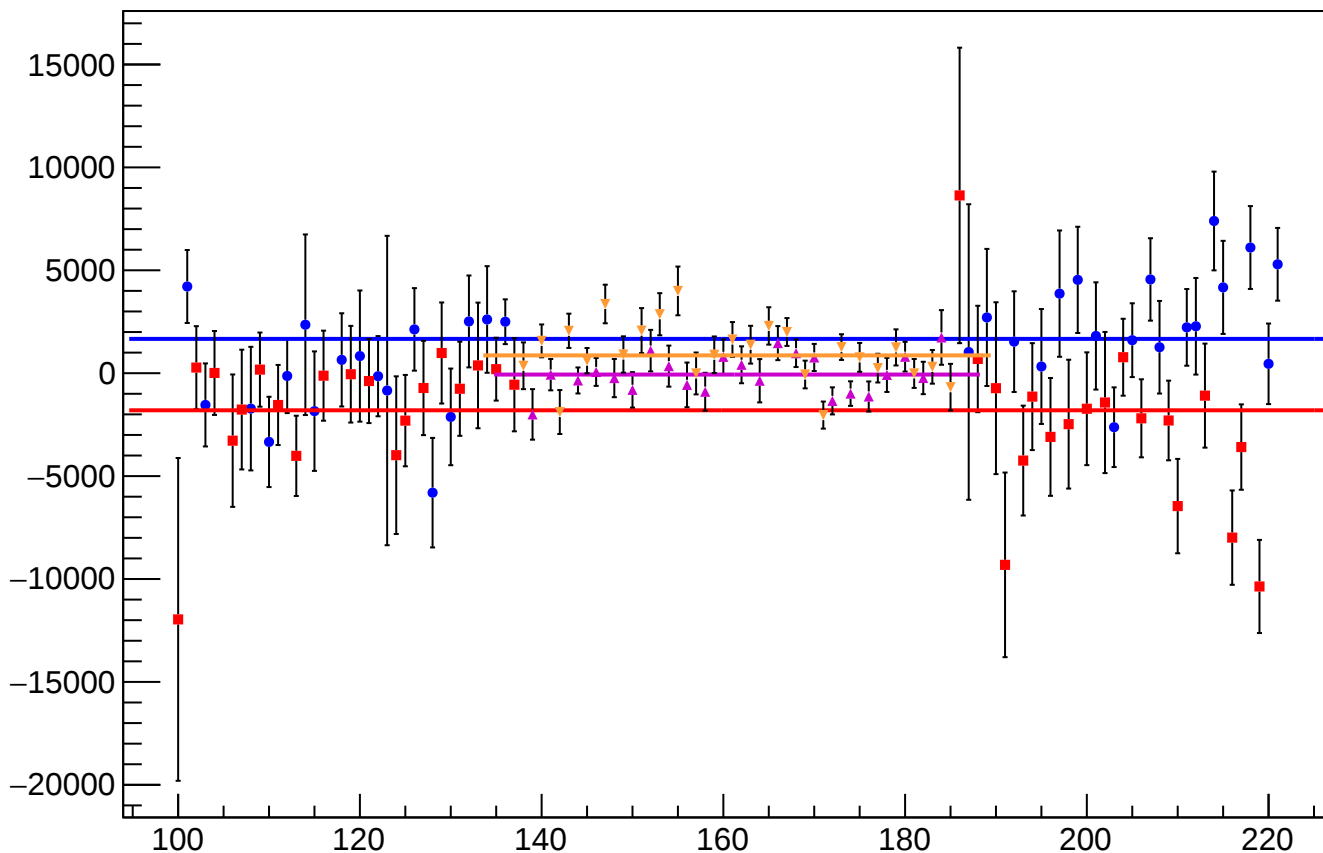
Right: 1625.752 $\pm$ 0.190 χ^2 /NDF: 5372677.8/71

In: 834.925 $\pm$ 0.107 χ^2 /NDF:13761420.5/57

Out: 828.421 $\pm$ 0.106 χ^2 /NDF:14703590.9/61

All: 831.639 $\pm$ 0.075 χ^2 /NDF: 28466869.0/131

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1667.250 ± 372.610 $\chi^2/\text{NDF}: 51.9/34$

Left Out: 865.597 ± 163.885 $\chi^2/\text{NDF}: 62.8/24$

Right Out: -1802.297 ± 391.113 $\chi^2/\text{NDF}: 48.1/36$

Left In: -65.924 ± 167.485 $\chi^2/\text{NDF}: 26.4/22$

Left: 409.953 ± 117.136 $\chi^2/\text{NDF}: 105.1/47$

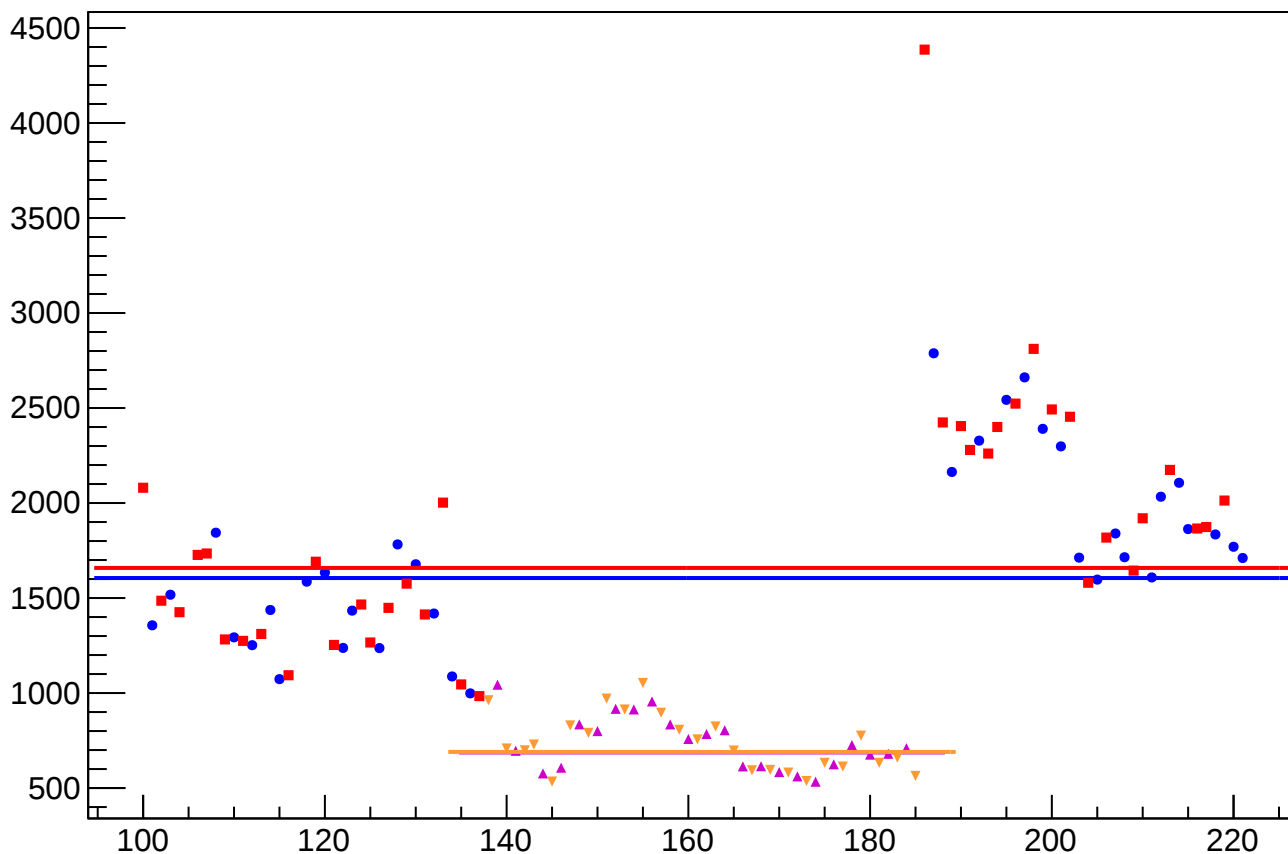
Right: 16.486 ± 269.779 $\chi^2/\text{NDF}: 141.3/71$

In: 225.391 ± 152.762 $\chi^2/\text{NDF}: 96.3/57$

Out: 467.130 ± 151.152 $\chi^2/\text{NDF}: 150.6/61$

All: 347.541 ± 107.445 $\chi^2/\text{NDF}: 248.1/119$

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1605.221+/-0.263 χ^2/NDF : 2450688.9/34

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1658.392+/-0.277 χ^2/NDF : 2916786.8/36

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

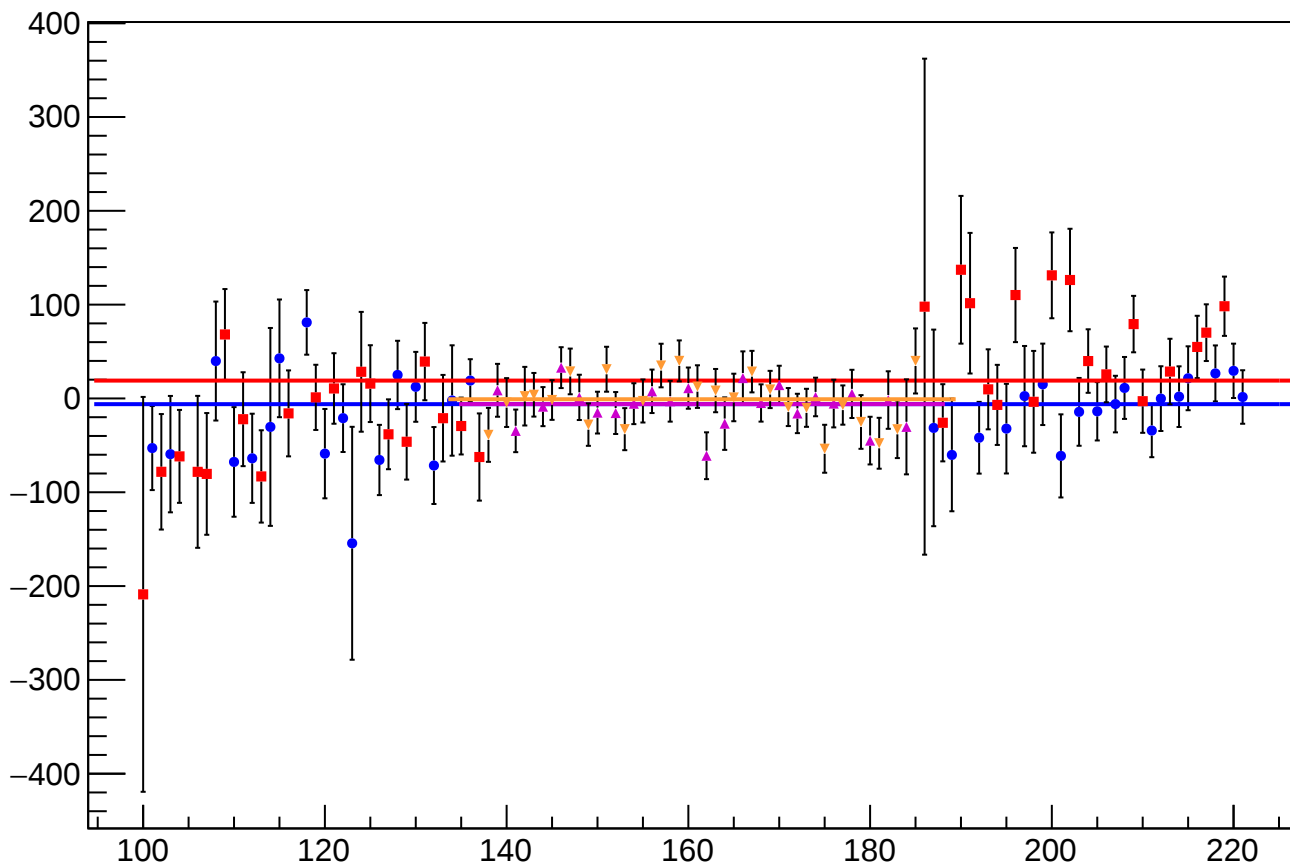
Right: 1630.519+/-0.191 χ^2/NDF : 5386852.6/71

In: 841.517+/-0.108 χ^2/NDF : 13649703.4/57

Out: 834.777+/-0.107 χ^2/NDF : 14601158.5/61

All: 838.111+/-0.076 χ^2/NDF : 28252828.9/11

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -6.098 ± 6.545 χ^2/NDF : 30.9/34

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 19.025 ± 6.980 χ^2/NDF : 62.4/36

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

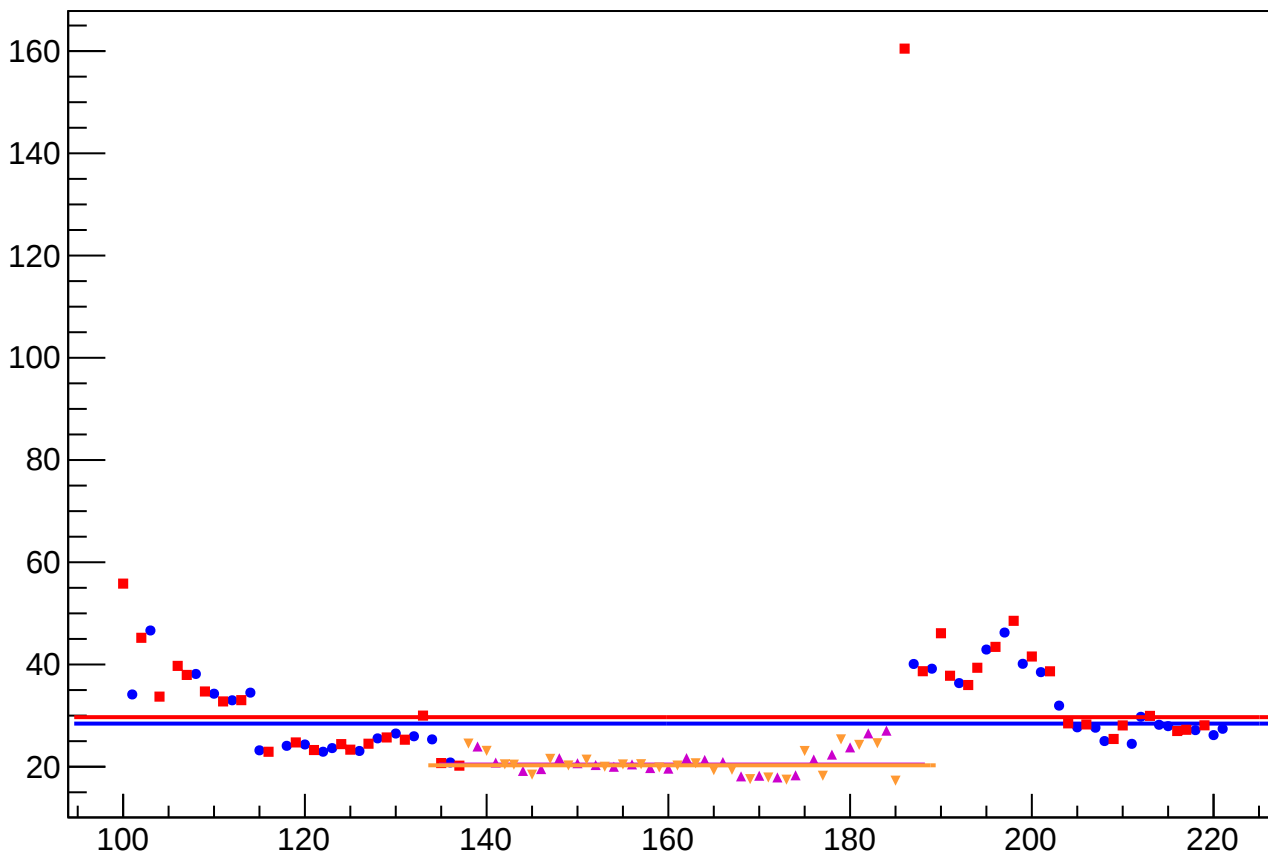
Right: 5.658 ± 4.774 χ^2/NDF : 100.2/71

In: -6.062 ± 3.936 χ^2/NDF : 47.8/57

Out: 5.452 ± 3.933 χ^2/NDF : 95.9/61

All: -0.301 ± 2.782 χ^2/NDF : 147.9/119

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.438 $\pm$ 0.005 χ^2 /NDF: 1634862.4/34

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 29.697 $\pm$ 0.005 χ^2 /NDF: 2322077.1/36

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

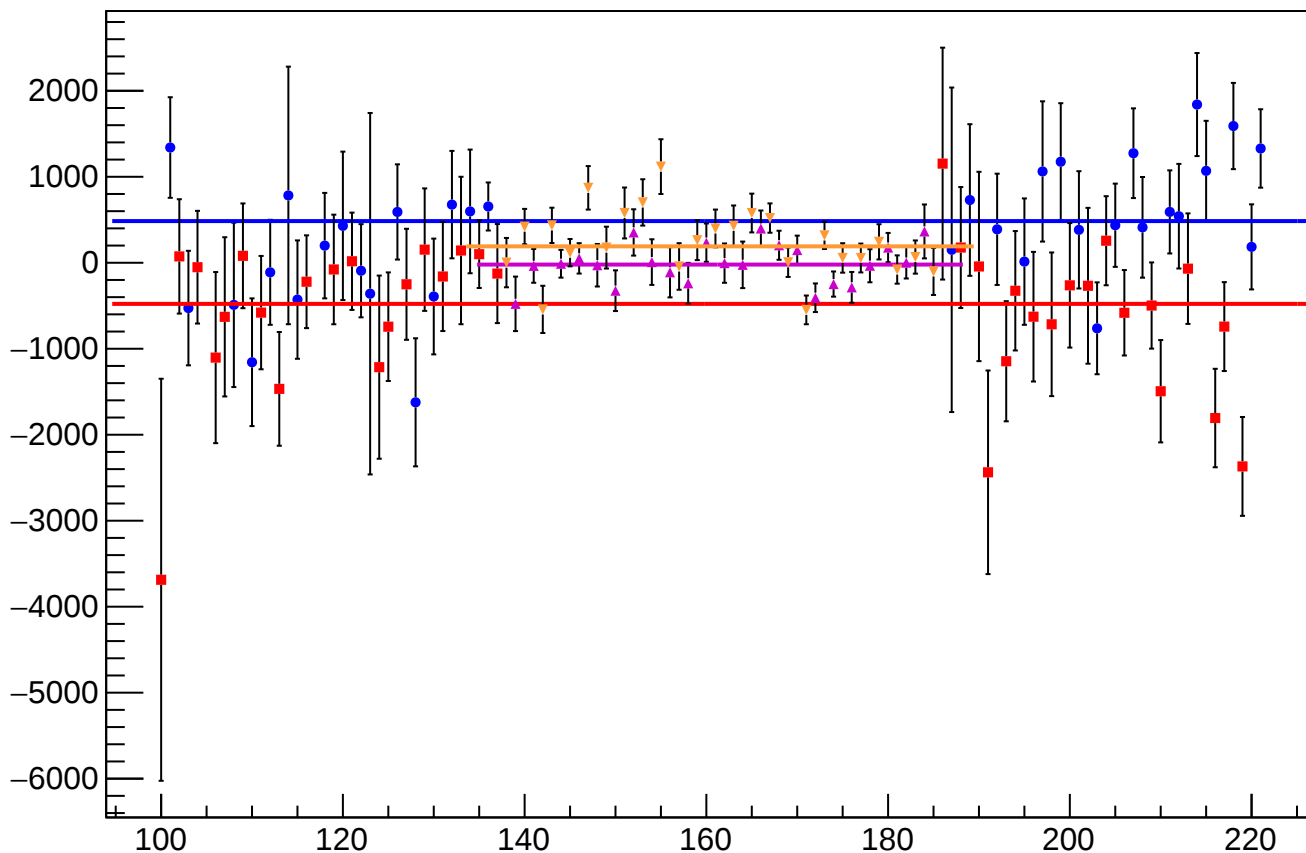
Right: 29.027 $\pm$ 0.003 χ^2 /NDF: 3991615.3/71

In: 23.321 $\pm$ 0.003 χ^2 /NDF: 3872410.1/57

Out: 23.269 $\pm$ 0.003 χ^2 /NDF: 5214671.4/61

All: 23.295 $\pm$ 0.002 χ^2 /NDF: 9087253.0/119

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 484.749 ± 101.486 $\chi^2/\text{NDF}: 49.6/34$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -478.240 ± 108.020 $\chi^2/\text{NDF}: 41.1/36$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

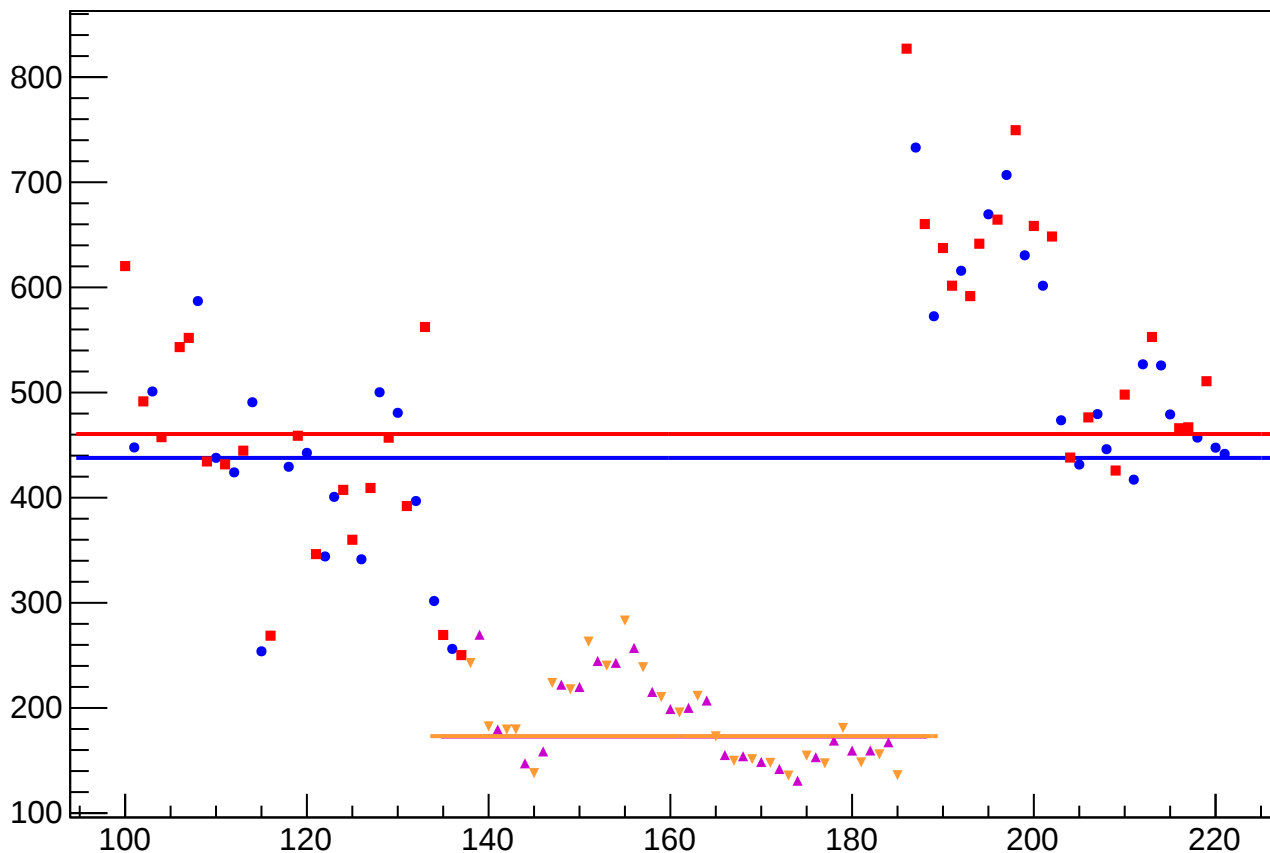
Right: 33.258 ± 73.963 $\chi^2/\text{NDF}: 132.8/71$

In: 53.832 ± 39.037 $\chi^2/\text{NDF}: 98.5/57$

Out: 105.480 ± 38.588 $\chi^2/\text{NDF}: 142.4/61$

All: 79.955 ± 27.443 $\chi^2/\text{NDF}: 241.7/119$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 437.822 $\pm$ 0.072 χ^2 /NDF: 2347836.9/34

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 460.551 $\pm$ 0.076 χ^2 /NDF: 2545073.7/36

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

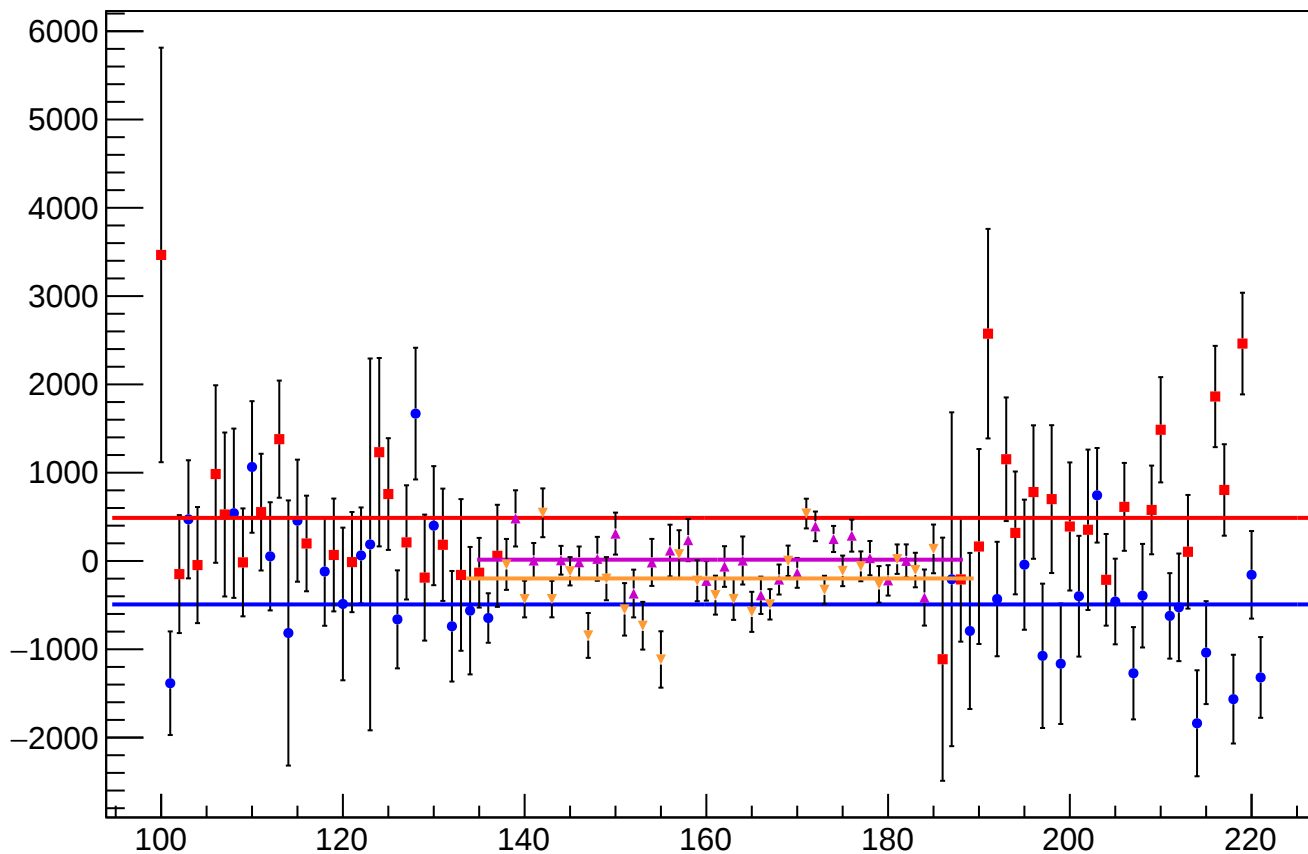
Right: 448.479 $\pm$ 0.052 χ^2 /NDF: 4939944.6/71

In: 212.036 $\pm$ 0.028 χ^2 /NDF:15338575.1/57

Out: 209.879 $\pm$ 0.027 χ^2 /NDF:16452444.5/61

All: 210.945 $\pm$ 0.019 χ^2 /NDF: 31794109.5/118

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -492.116 ± 101.731 $\chi^2/\text{NDF}: 48.7/34$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 487.951 ± 108.301 $\chi^2/\text{NDF}: 42.7/36$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

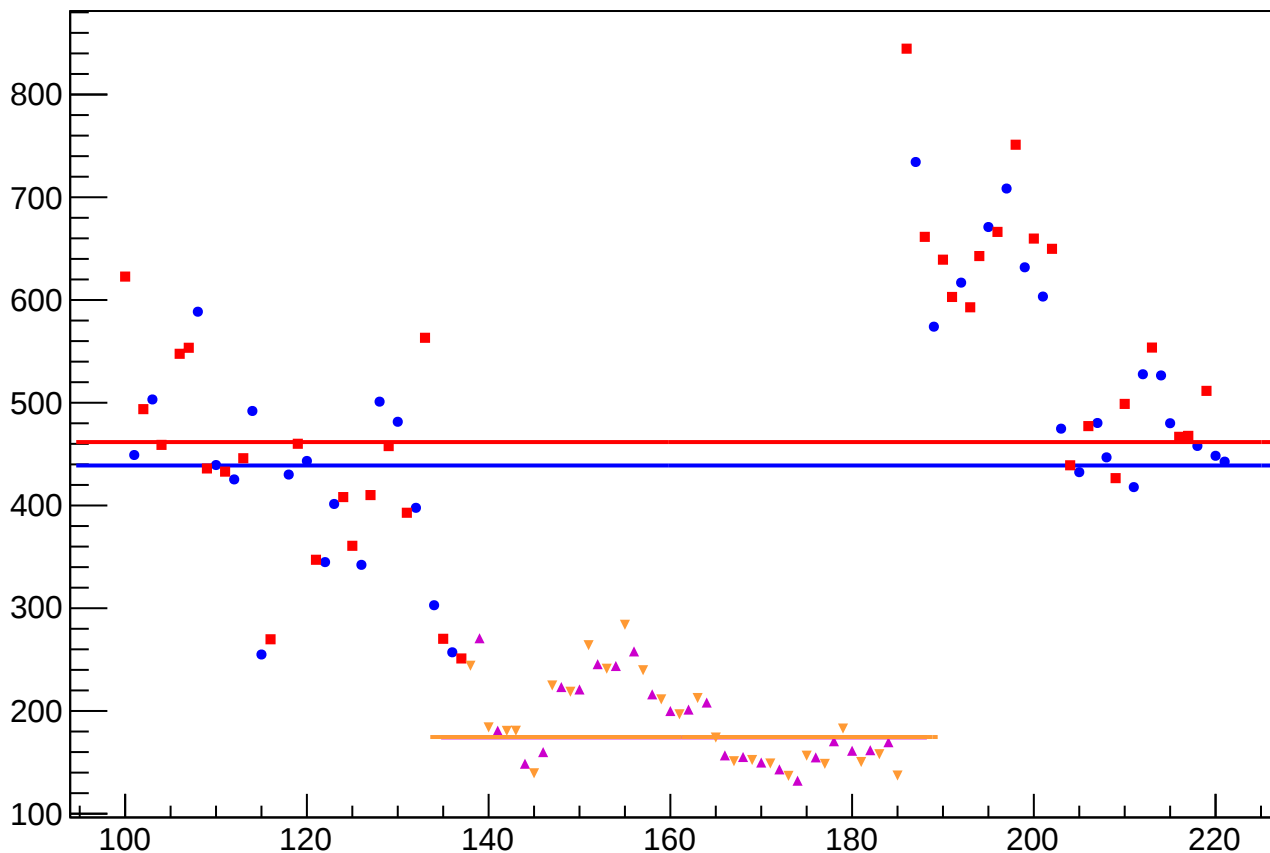
Right: -32.707 ± 74.149 $\chi^2/\text{NDF}: 134.9/71$

In: -61.073 ± 39.317 $\chi^2/\text{NDF}: 97.5/57$

Out: -109.592 ± 38.865 $\chi^2/\text{NDF}: 141.9/61$

All: -85.613 ± 27.640 $\chi^2/\text{NDF}: 240.2/119$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 438.933+/-0.072 χ^2/NDF : 2340012.7/34

Left Out: 174.648+/-0.029 χ^2/NDF :1531999.5/24

Right Out: 461.725+/-0.077 χ^2/NDF : 2547187.7/36

Left In: 174.288+/-0.030 χ^2/NDF :1344779.5/22

Left: 174.472+/-0.021 χ^2/NDF : 2876851.9/47

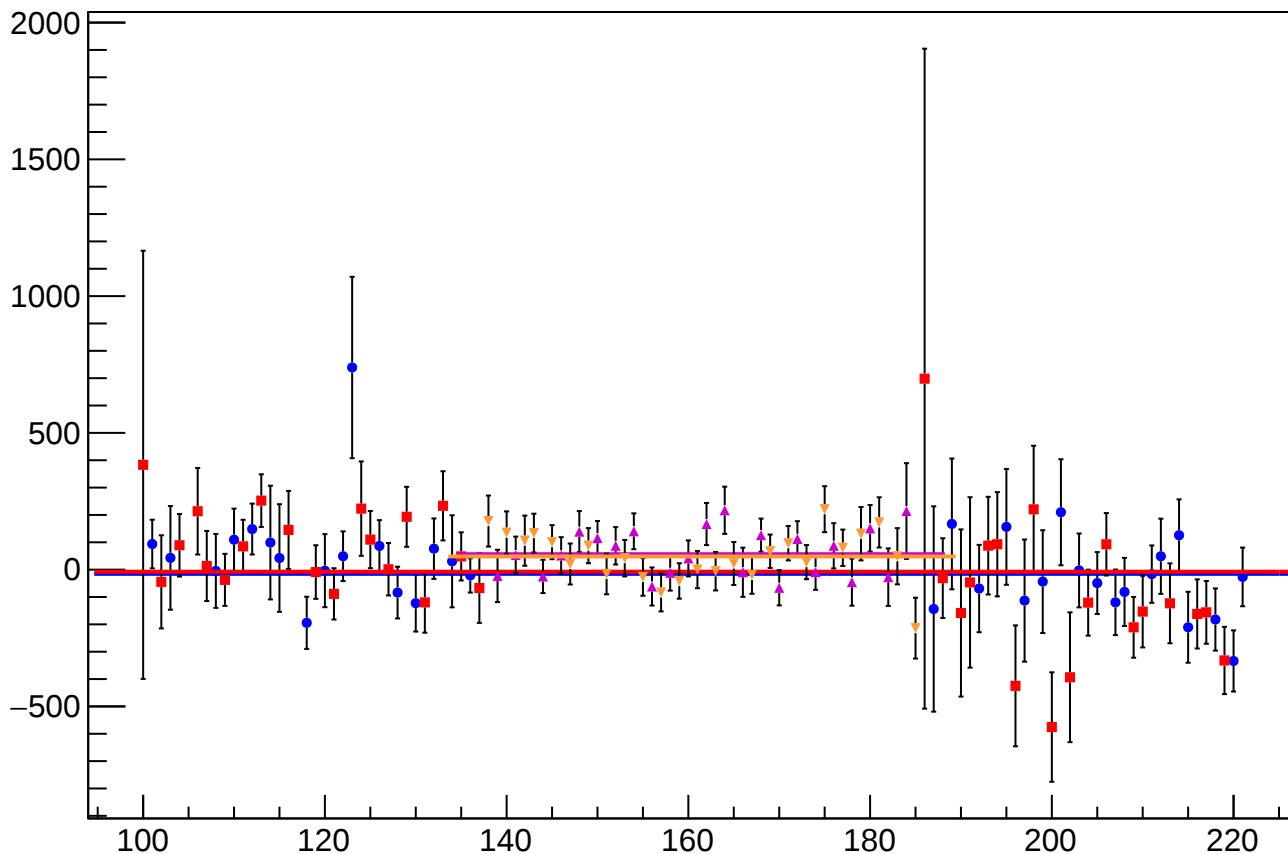
Right: 449.617+/-0.052 χ^2/NDF : 4934257.2/71

In: 213.817+/-0.028 χ^2/NDF :15197827.5/57

Out: 211.617+/-0.027 χ^2/NDF :16322285.2/61

All: 212.705+/-0.020 χ^2/NDF : 31523278.6/119

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -15.275 ± 20.536 $\chi^2/\text{NDF}: 37.1/34$

Left Out: 48.233 ± 14.616 $\chi^2/\text{NDF}: 29.3/24$

Right Out: -7.449 ± 21.305 $\chi^2/\text{NDF}: 58.3/36$

Left In: 56.403 ± 15.182 $\chi^2/\text{NDF}: 27.5/22$

Left: 52.163 ± 10.529 $\chi^2/\text{NDF}: 56.9/47$

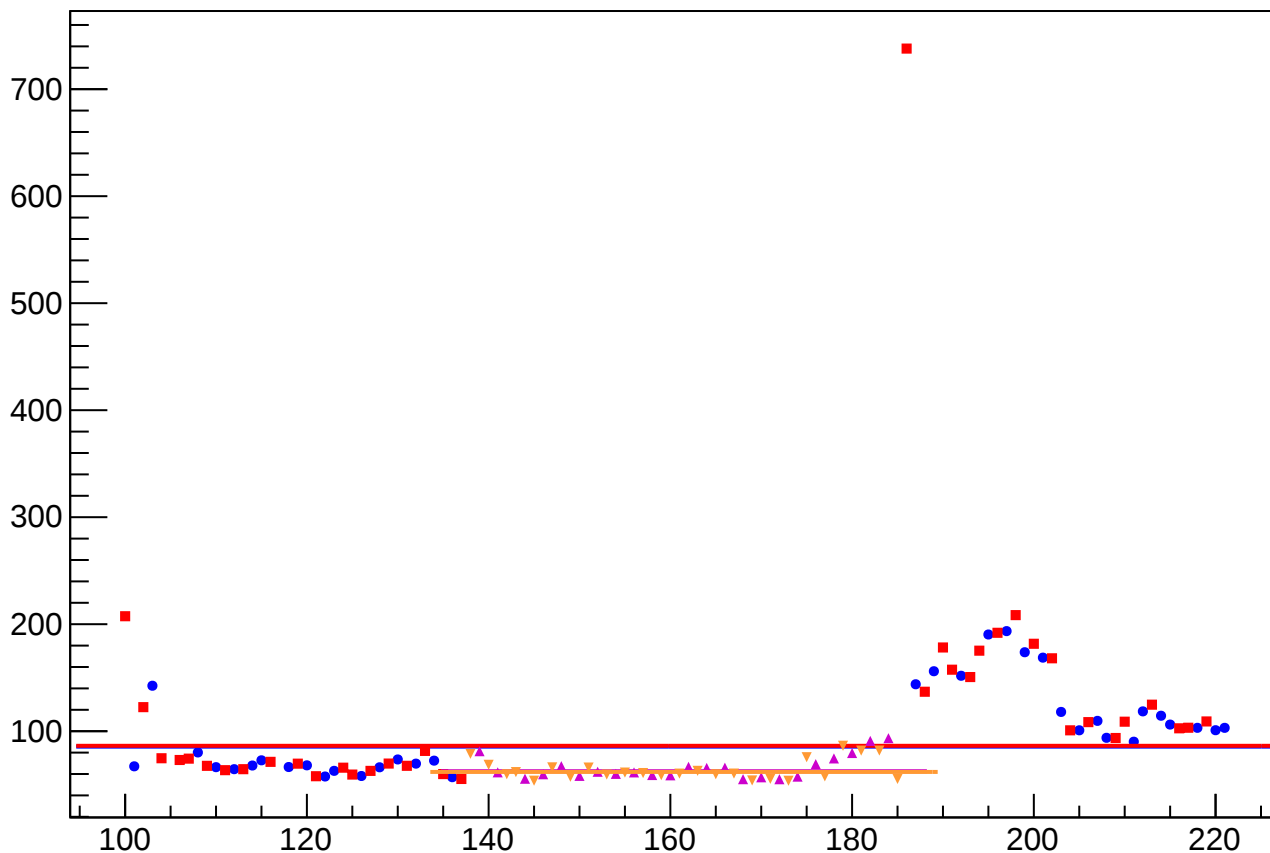
Right: -11.505 ± 14.786 $\chi^2/\text{NDF}: 95.5/71$

In: 31.073 ± 12.208 $\chi^2/\text{NDF}: 72.5/57$

Out: 30.414 ± 12.052 $\chi^2/\text{NDF}: 92.2/61$

All: 30.739 ± 8.577 $\chi^2/\text{NDF}: 164.7/119$

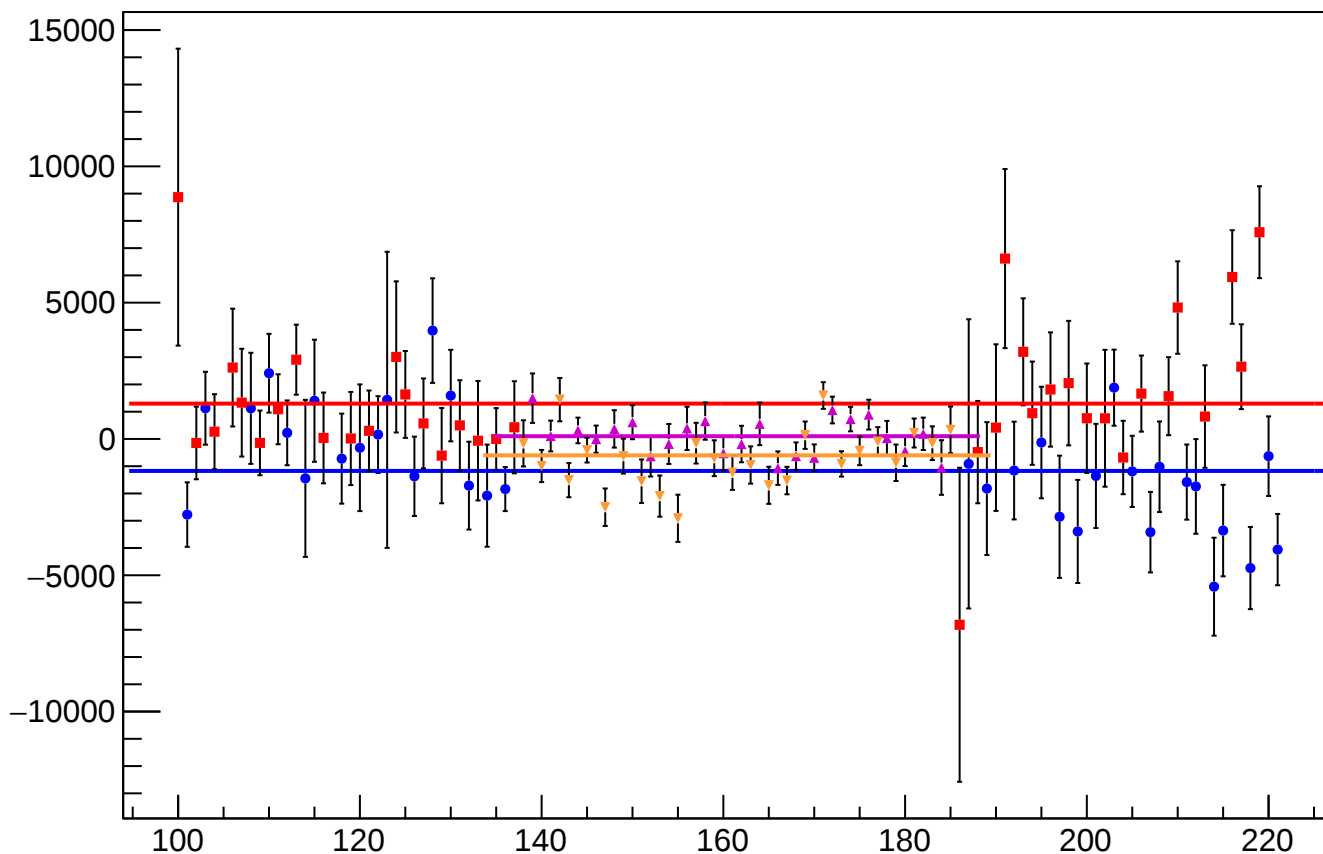
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 85.597 $\pm$ 0.015 χ^2 /NDF: 4492258.2/34
 Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24
 Right Out: 86.349 $\pm$ 0.015 χ^2 /NDF: 5388418.1/36
 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: 85.959 $\pm$ 0.010 χ^2 /NDF: 9881969.4/71
 In: 70.732 $\pm$ 0.009 χ^2 /NDF: 6688452.3/57
 Out: 69.756 $\pm$ 0.009 χ^2 /NDF: 7777566.9/61
 All: 70.237 $\pm$ 0.006 χ^2 /NDF: 14472492.6/119

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1173.126 ± 268.647 $\chi^2/\text{NDF}: 54.7/34$

Left Out: -601.486 ± 122.119 $\chi^2/\text{NDF}: 65.4/24$

Right Out: 1296.537 ± 279.851 $\chi^2/\text{NDF}: 48.2/36$

Left In: 100.548 ± 124.725 $\chi^2/\text{NDF}: 25.5/22$

Left: -257.880 ± 87.258 $\chi^2/\text{NDF}: 107.0/47$

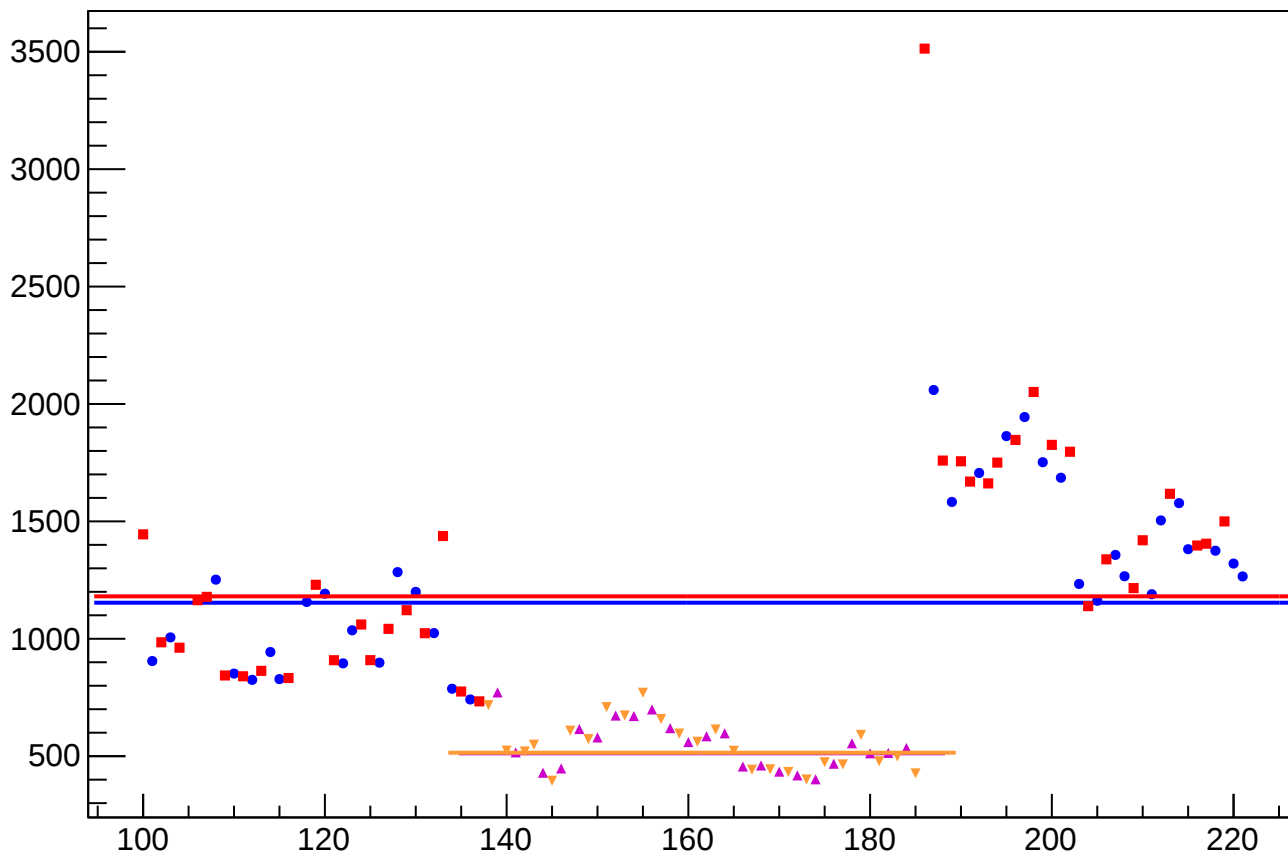
Right: 11.277 ± 193.802 $\chi^2/\text{NDF}: 143.4/71$

In: -125.307 ± 113.127 $\chi^2/\text{NDF}: 98.6/57$

Out: -297.879 ± 111.926 $\chi^2/\text{NDF}: 152.2/61$

All: -212.514 ± 79.565 $\chi^2/\text{NDF}: 252.0/119$

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1153.638 $\pm$ 0.190 χ^2 /NDF: 2685603.9/34

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 1180.717 $\pm$ 0.198 χ^2 /NDF: 3274352.1/36

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

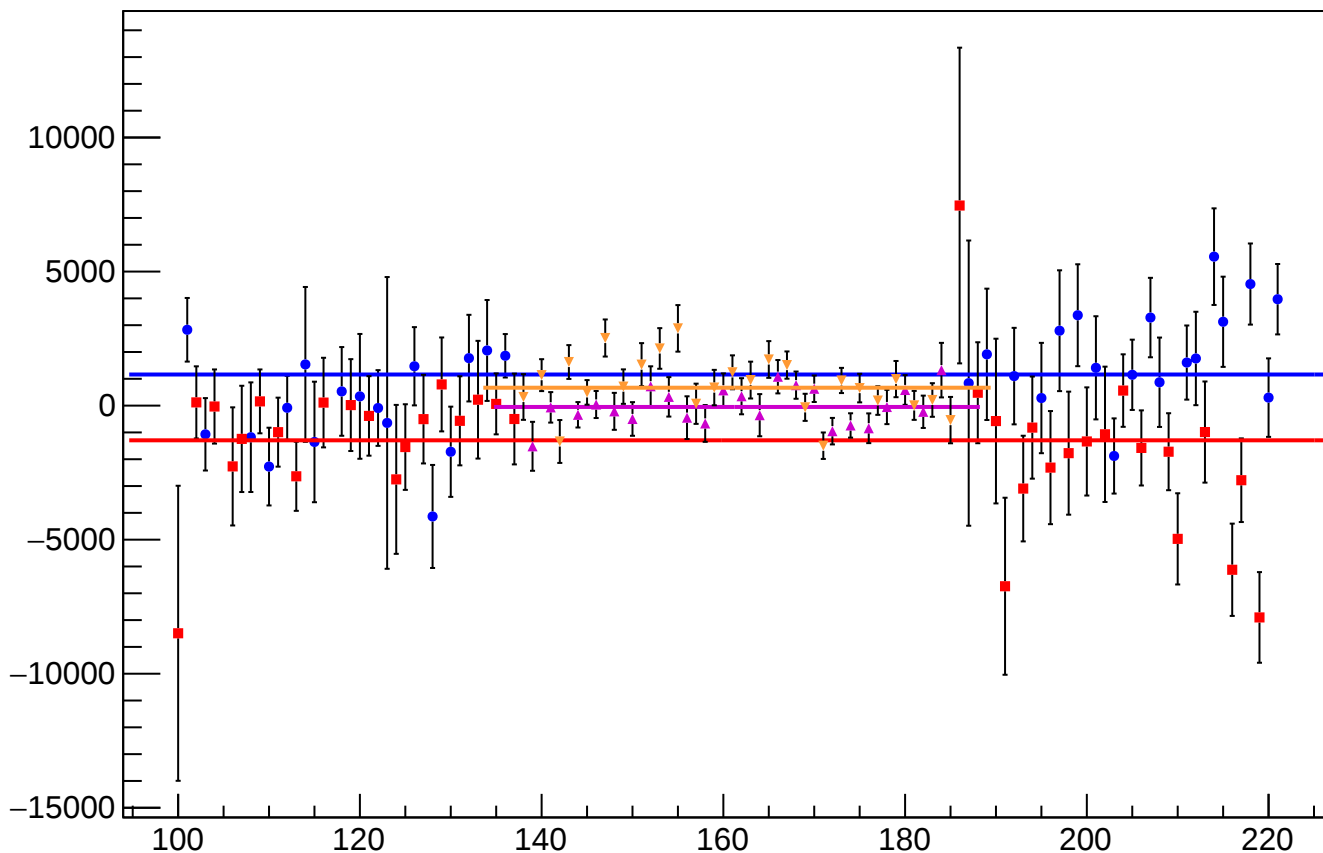
Right: 1166.624 $\pm$ 0.137 χ^2 /NDF: 5969701.7/71

In: 625.942 $\pm$ 0.080 χ^2 /NDF:13106954.5/57

Out: 621.284 $\pm$ 0.079 χ^2 /NDF:13983487.5/61

All: 623.588 $\pm$ 0.056 χ^2 /NDF: 27092155.7/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1160.410 $\pm$ 269.619 χ^2 /NDF: 53.2/34

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -1294.397 $\pm$ 280.967 χ^2 /NDF: 50.2/36

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

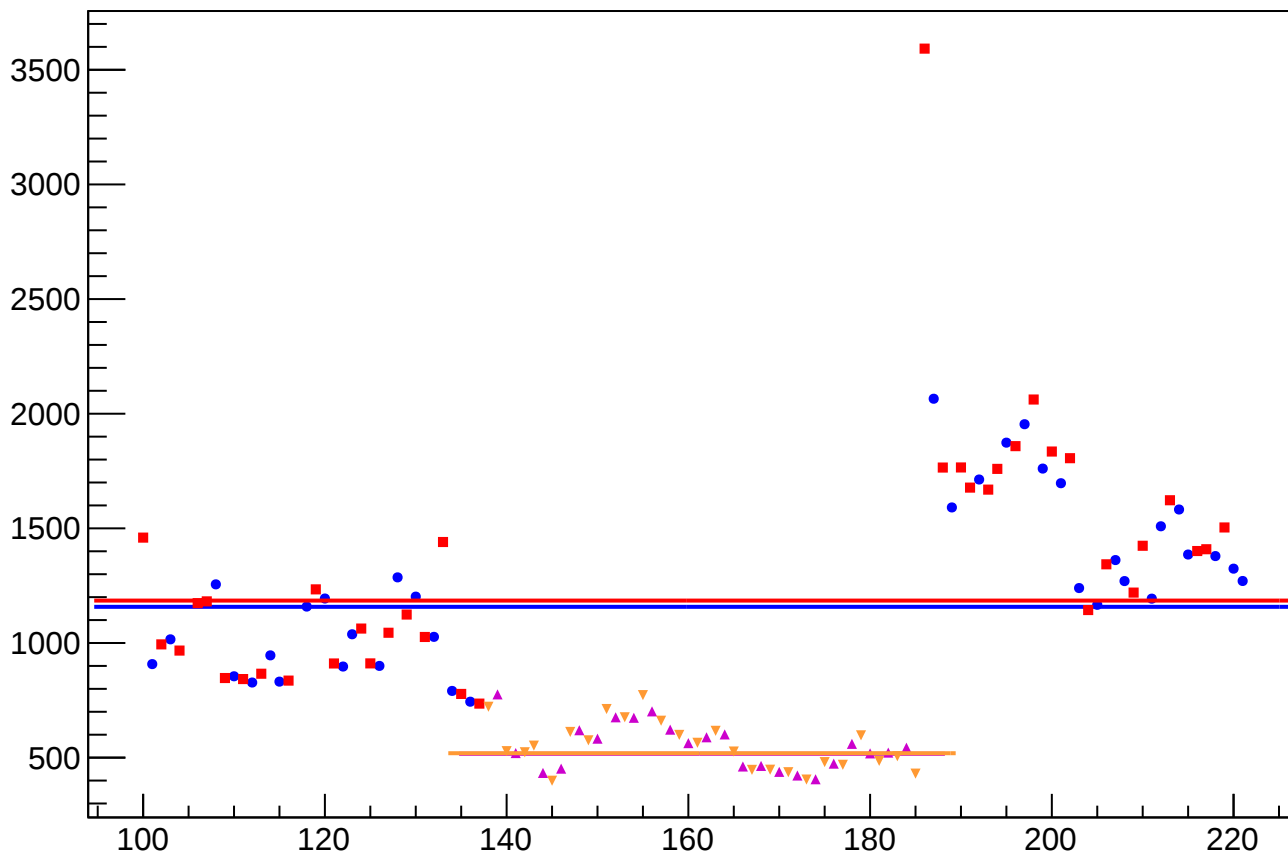
Right: -16.419 $\pm$ 194.538 χ^2 /NDF: 143.2/71

In: 166.346 $\pm$ 114.005 χ^2 /NDF:95.9/57

Out: 351.457 $\pm$ 112.788 χ^2 /NDF:152.6/61

All: 259.895 $\pm$ 80.180 χ^2 /NDF: 249.8/119

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1157.735 $\pm$ 0.191 χ^2 /NDF: 2691085.6/34

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1184.998 $\pm$ 0.199 χ^2 /NDF: 3287153.1/36

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

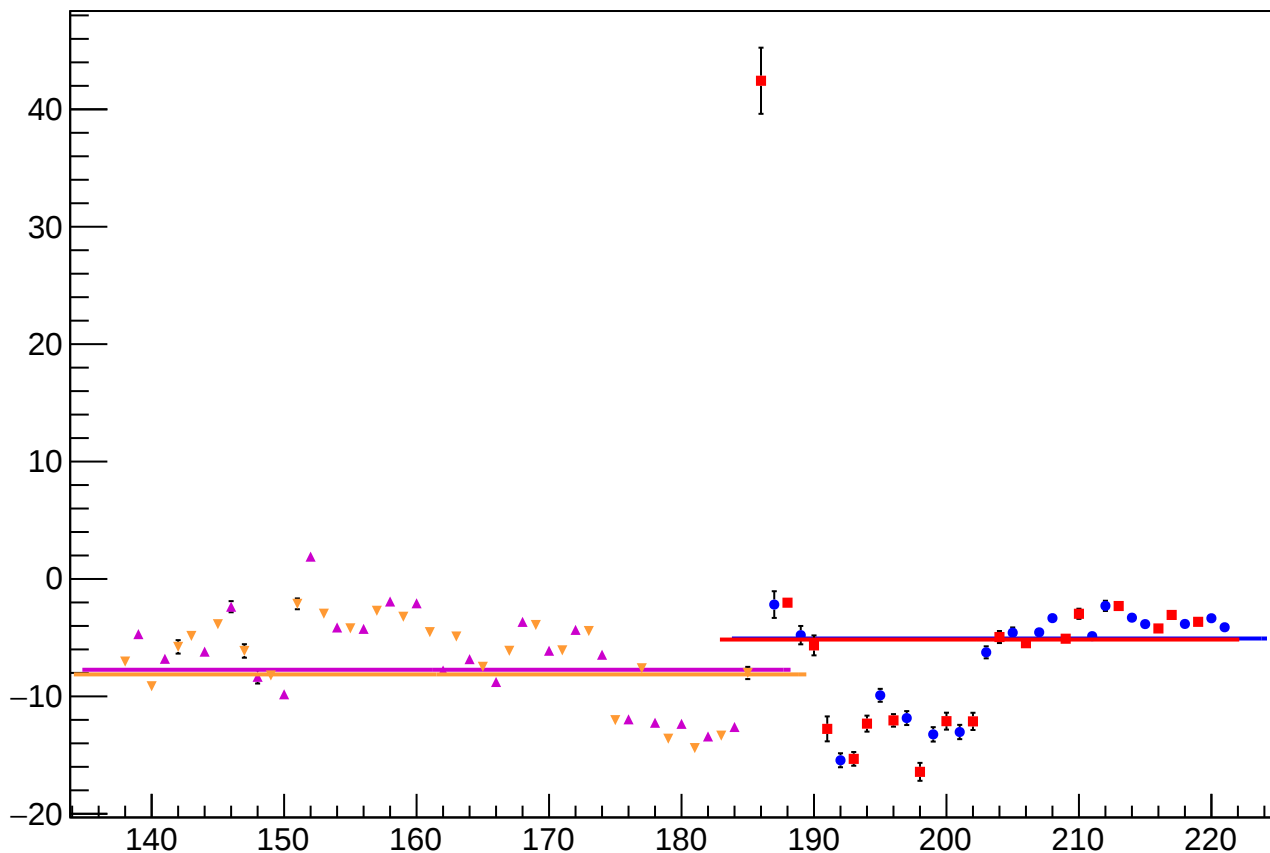
Right: 1170.805 $\pm$ 0.138 χ^2 /NDF: 5988042.3/71

In: 631.387 $\pm$ 0.081 χ^2 /NDF:12994000.4/57

Out: 626.534 $\pm$ 0.080 χ^2 /NDF:13878898.2/61

All: 628.935 $\pm$ 0.057 χ^2 /NDF: 26874729.8/11

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



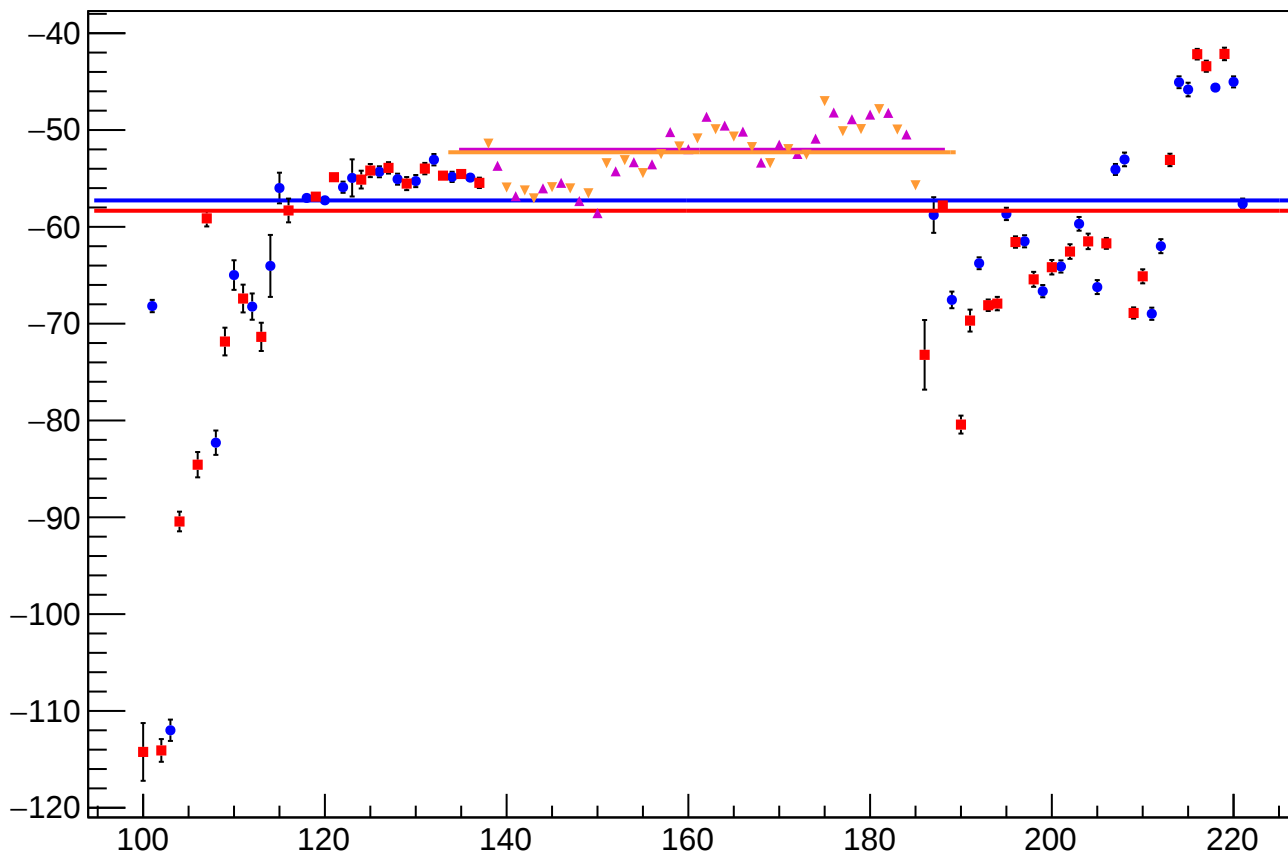
Right In: -5.070 ± 0.097 χ^2/NDF : 1043.8/17
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -5.159 ± 0.103 χ^2/NDF : 1595.2/17
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -5.112 ± 0.071 χ^2/NDF : 2639.4/35

In: -6.837 ± 0.056 χ^2/NDF : 5265.5/40
 Out: -7.238 ± 0.056 χ^2/NDF : 5811.7/42

All: -7.037 ± 0.040 χ^2/NDF : 11102.6/83

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.271 $\pm$ 0.104 χ^2 /NDF: 6446.2/34

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -58.337 $\pm$ 0.106 χ^2 /NDF: 8784.2/36

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF: 3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

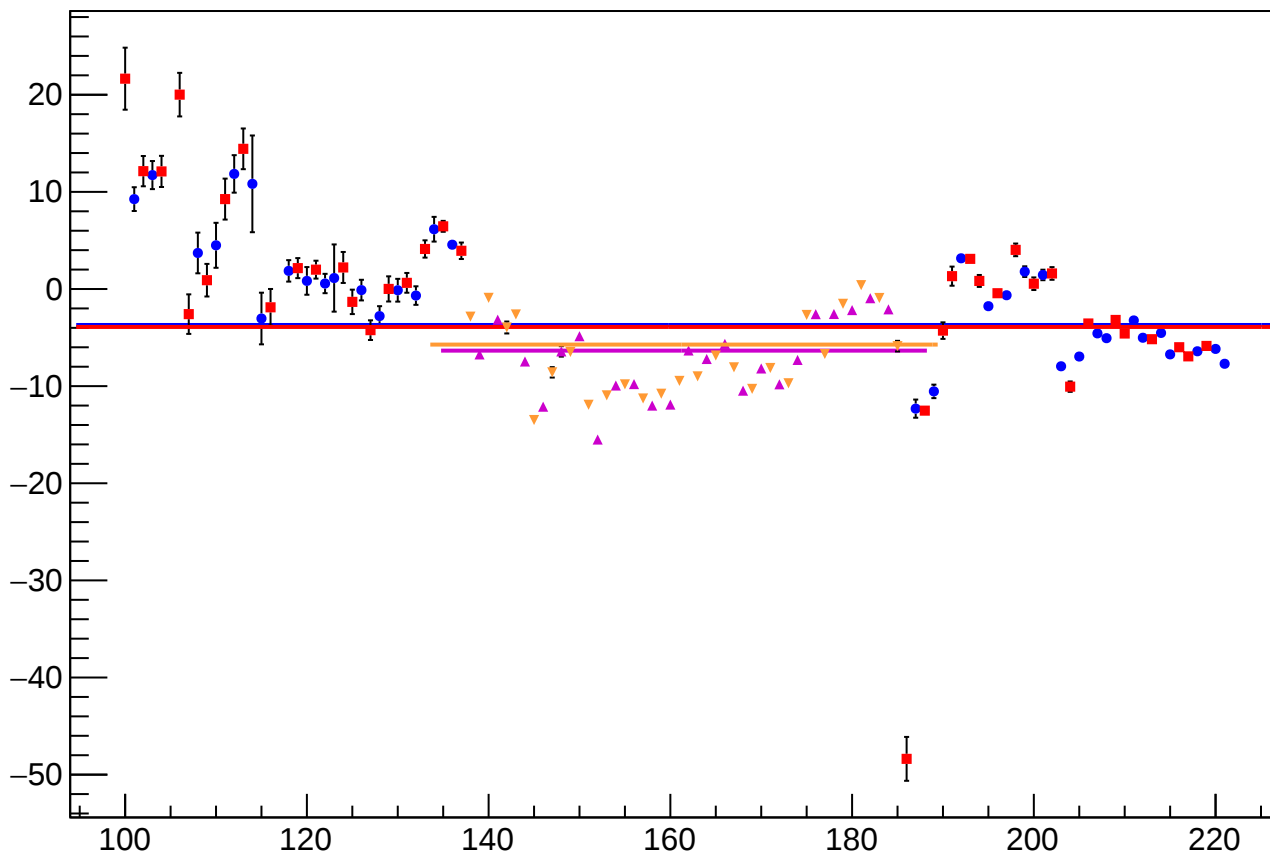
Right: -57.793 $\pm$ 0.074 χ^2 /NDF: 15281.6/71

In: -53.248 $\pm$ 0.050 χ^2 /NDF: 11565.7/57

Out: -53.575 $\pm$ 0.049 χ^2 /NDF: 13987.7/61

All: -53.416 $\pm$ 0.035 χ^2 /NDF: 25575.2/119

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.704 ± 0.092 $\chi^2/\text{NDF}: 1975.2/34$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -3.905 ± 0.096 $\chi^2/\text{NDF}: 3434.5/36$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

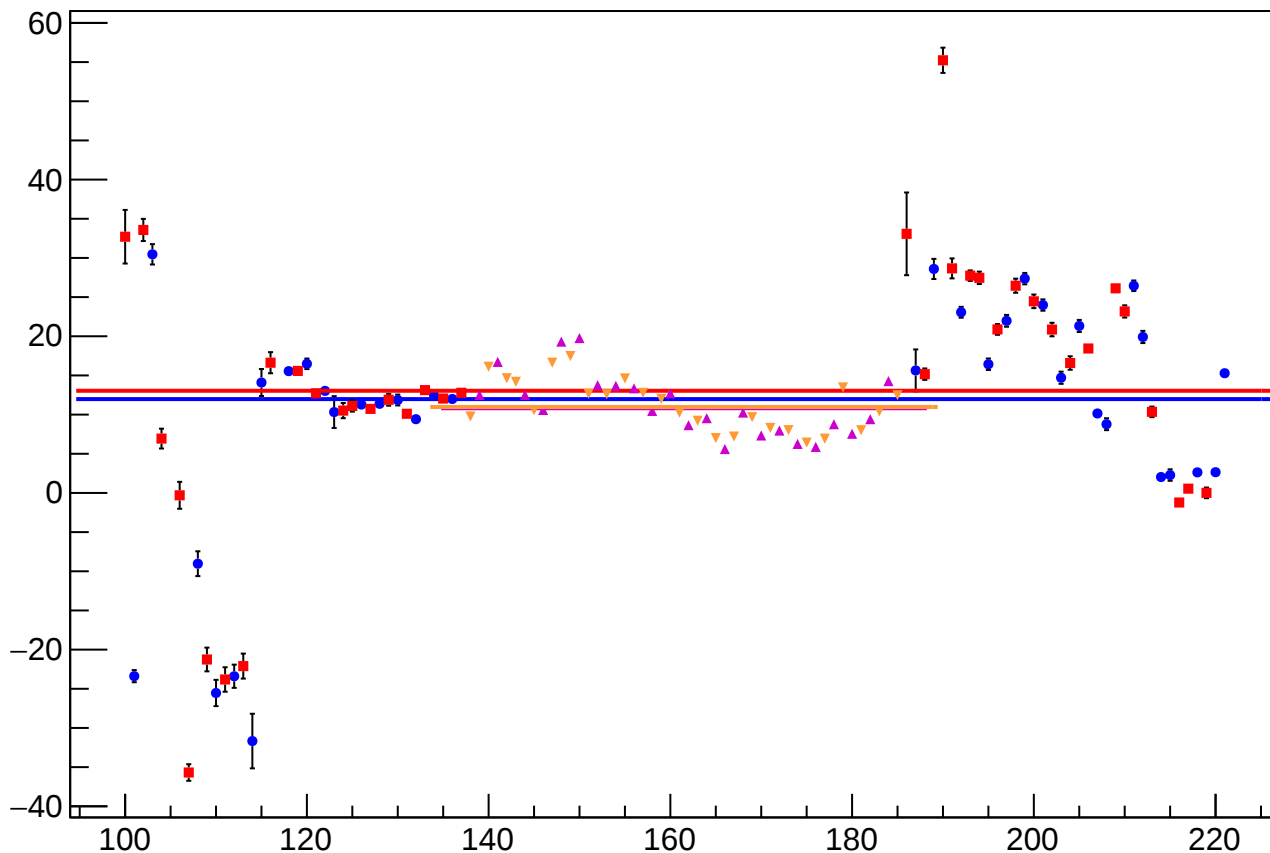
Right: -3.800 ± 0.067 $\chi^2/\text{NDF}: 5412.0/71$

In: -5.404 ± 0.055 $\chi^2/\text{NDF}: 5886.1/57$

Out: -5.121 ± 0.055 $\chi^2/\text{NDF}: 7656.6/61$

All: -5.263 ± 0.039 $\chi^2/\text{NDF}: 13555.8/119$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.979 $\pm$ 0.115 χ^2 /NDF: 6956.8/34

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.044 $\pm$ 0.119 χ^2 /NDF: 8536.6/36

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

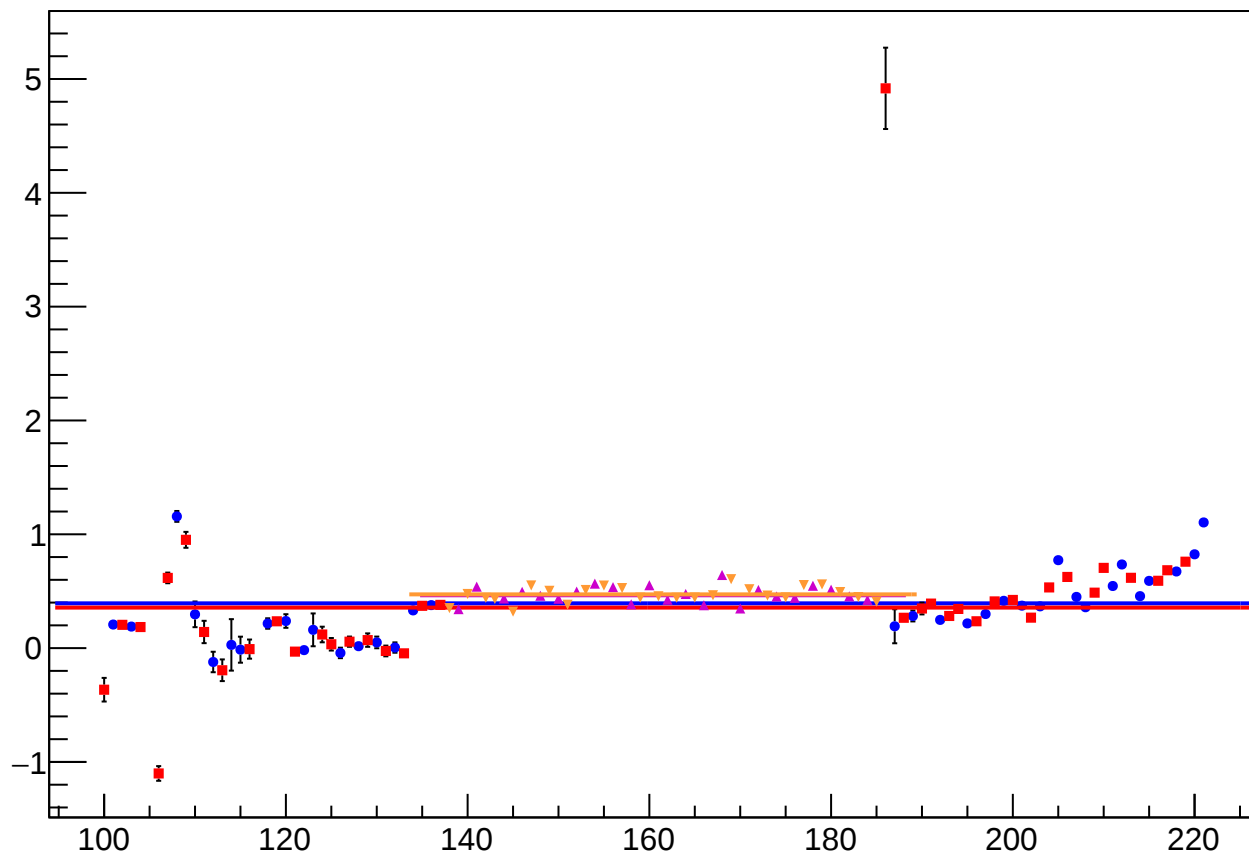
Right: 12.491 $\pm$ 0.083 χ^2 /NDF: 15534.7/71

In: 11.084 $\pm$ 0.055 χ^2 /NDF: 10582.8/57

Out: 11.402 $\pm$ 0.055 χ^2 /NDF: 11414.0/61

All: 11.245 $\pm$ 0.039 χ^2 /NDF: 22013.5/119

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.393 $\pm$ 0.005 χ^2 /NDF: 1837.2/34

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.356 $\pm$ 0.005 χ^2 /NDF: 1977.7/36

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF: 733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

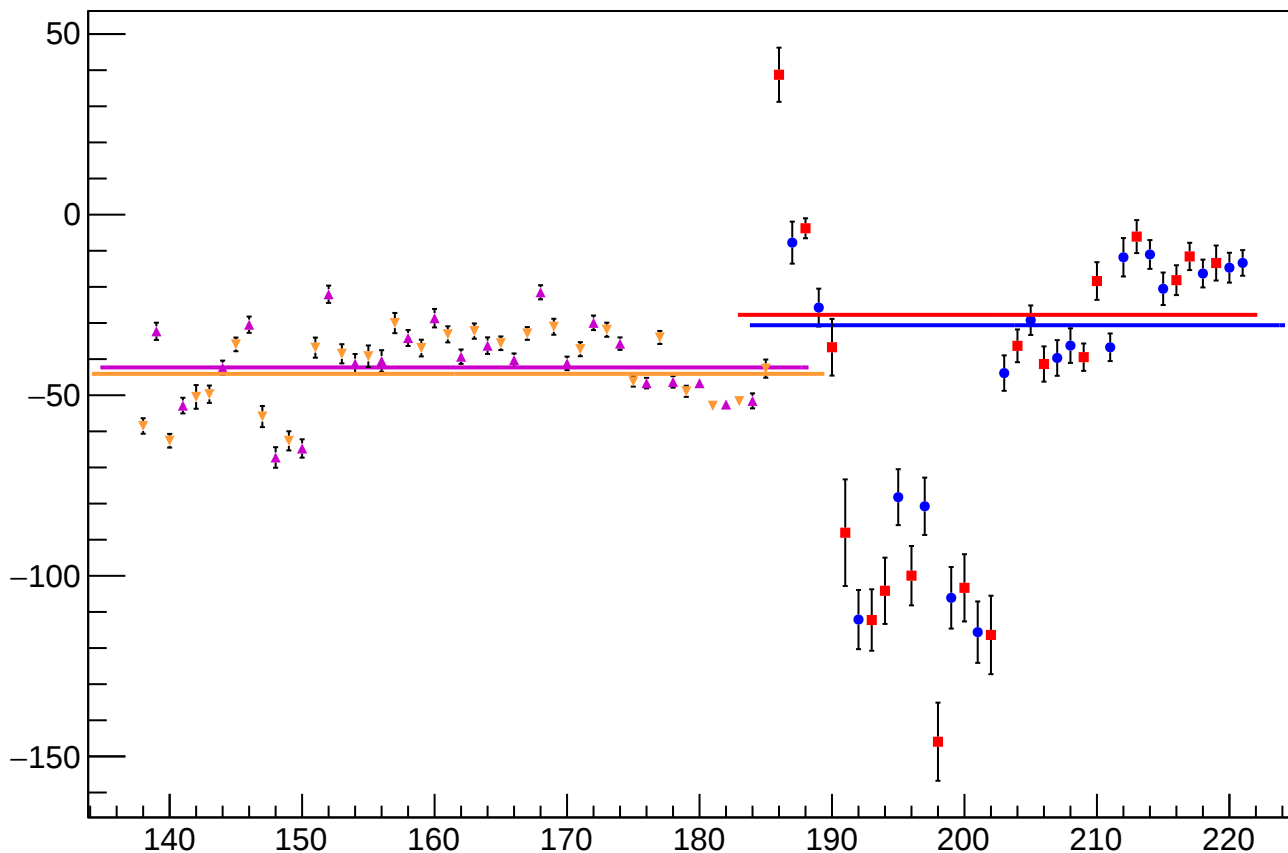
Right: 0.375 $\pm$ 0.004 χ^2 /NDF: 3839.9/71

In: 0.448 $\pm$ 0.002 χ^2 /NDF: 2715.3/57

Out: 0.448 $\pm$ 0.002 χ^2 /NDF: 2867.6/61

All: 0.448 $\pm$ 0.002 χ^2 /NDF: 5582.9/119

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected

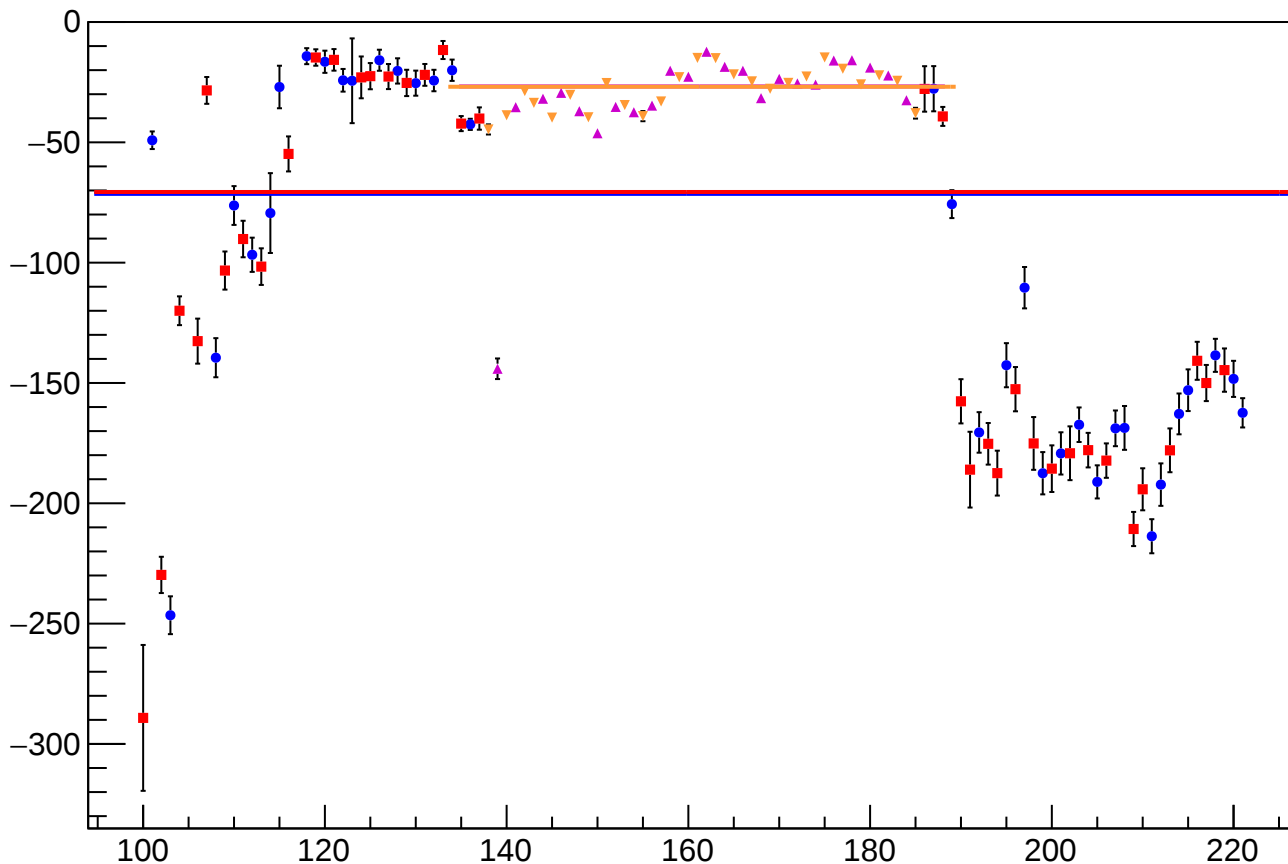


Right In: -30.617 ± 1.156 $\chi^2/\text{NDF}: 480.3/17$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -27.741 ± 1.236 $\chi^2/\text{NDF}: 747.9/17$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -29.275 ± 0.844 $\chi^2/\text{NDF}: 1231.0/35$
 In: -41.059 ± 0.377 $\chi^2/\text{NDF}: 1212.2/40$
 Out: -42.608 ± 0.371 $\chi^2/\text{NDF}: 1539.4/42$

All: -41.847 ± 0.264 $\chi^2/\text{NDF}: 2760.2/83$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -71.416 ± 0.971 $\chi^2/\text{NDF}: 4479.8/34$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -70.631 ± 1.017 $\chi^2/\text{NDF}: 4269.7/36$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

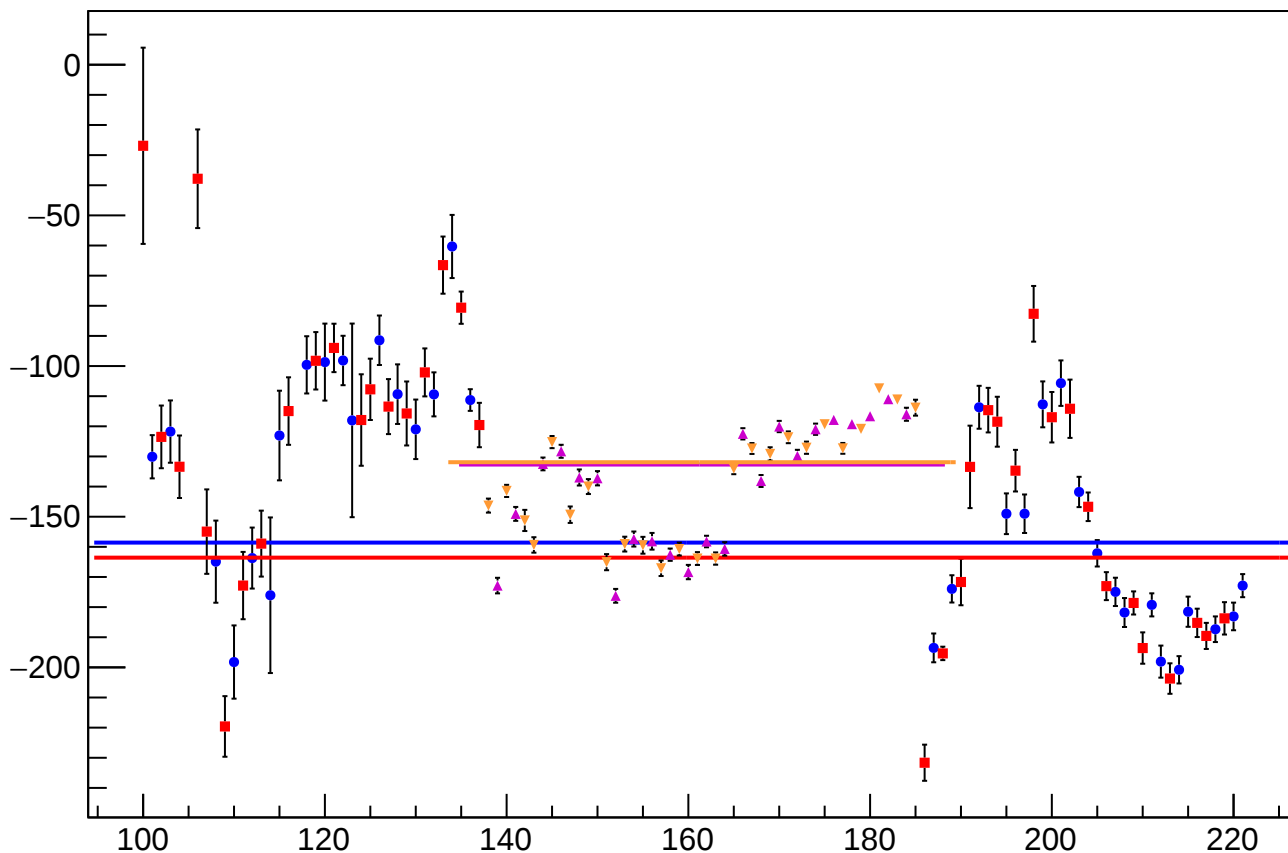
Right: -71.042 ± 0.703 $\chi^2/\text{NDF}: 8749.8/71$

In: -31.302 ± 0.309 $\chi^2/\text{NDF}: 7772.6/57$

Out: -30.755 ± 0.302 $\chi^2/\text{NDF}: 6585.2/61$

All: -31.022 ± 0.216 $\chi^2/\text{NDF}: 14359.4/119$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -158.590 $\pm$ 1.017 χ^2 /NDF: 1096.7/34

Left Out: -131.912 $\pm$ 0.391 χ^2 /NDF:2439.3/24

Right Out: -163.583 $\pm$ 1.046 χ^2 /NDF: 1565.5/36

Left In: -132.690 $\pm$ 0.399 χ^2 /NDF:2480.2/22

Left: -132.293 $\pm$ 0.280 χ^2 /NDF: 4921.5/47

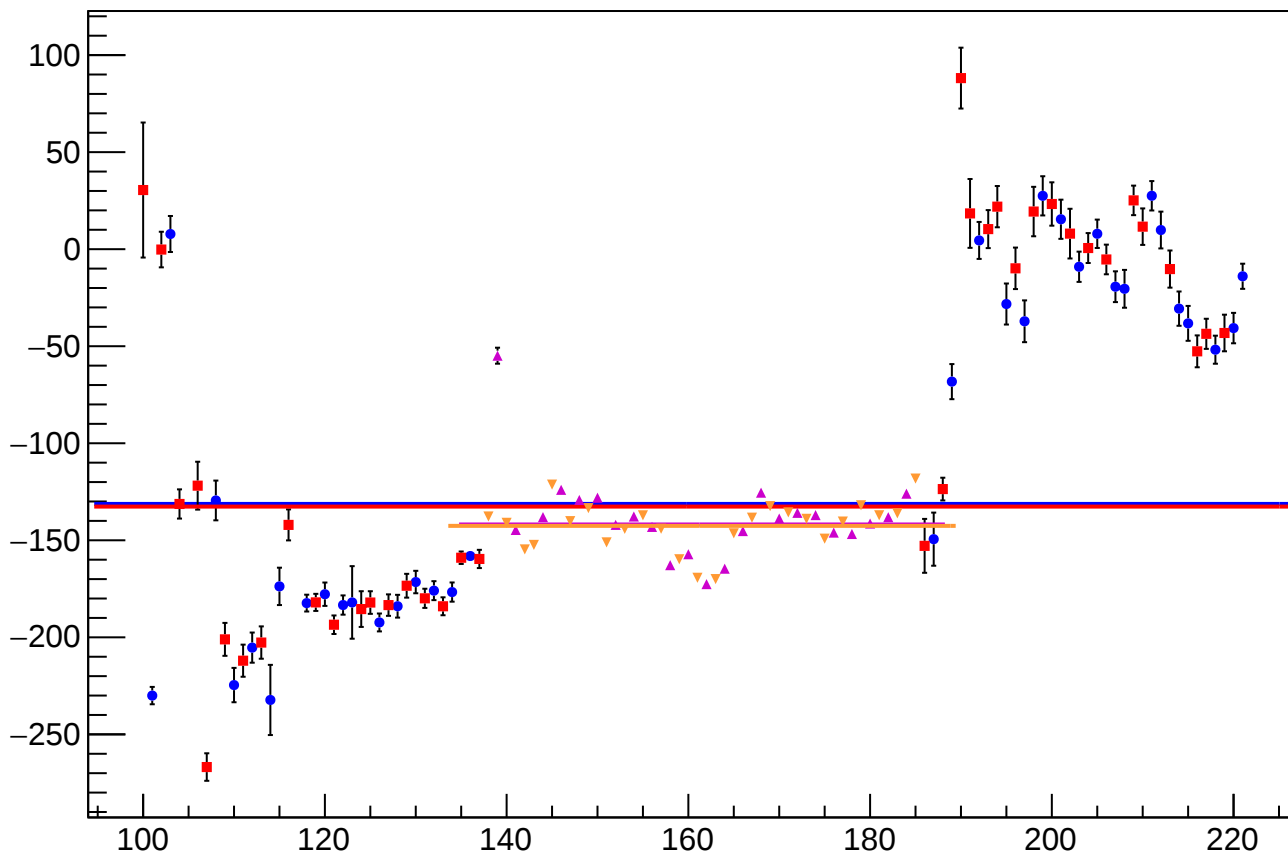
Right: -161.016 $\pm$ 0.729 χ^2 /NDF: 2673.9/71

In: -136.152 $\pm$ 0.372 χ^2 /NDF:4139.0/57

Out: -135.802 $\pm$ 0.367 χ^2 /NDF:4808.8/61

All: -135.975 $\pm$ 0.261 χ^2 /NDF: 8948.3/119

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -131.260+/-1.083 χ^2/NDF : 5187.8/34

Left Out: -142.564+/-0.354 χ^2/NDF :1147.7/24

Right Out: -132.635+/-1.156 χ^2/NDF : 4667.6/36

Left In: -141.856+/-0.364 χ^2/NDF :1544.3/22

Left: -142.220+/-0.254 χ^2/NDF : 2693.9/47

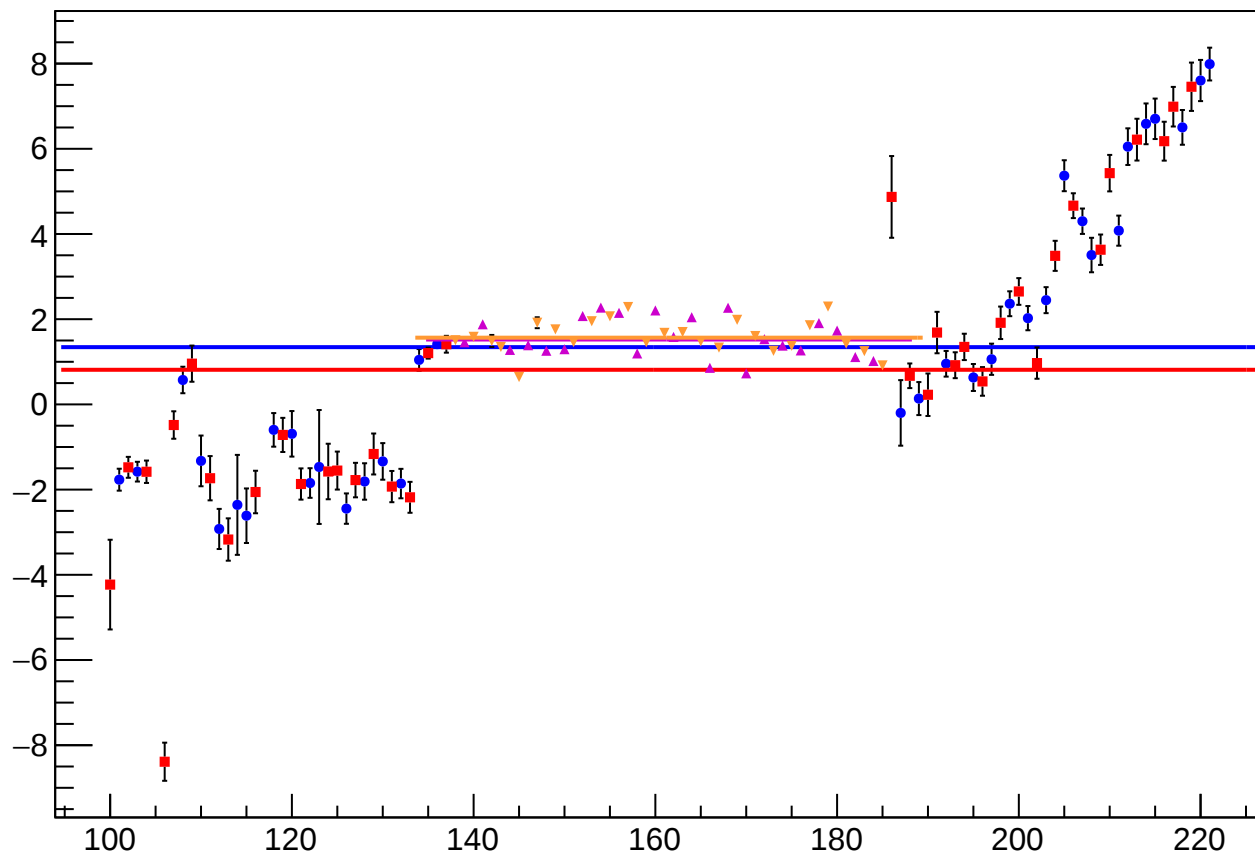
Right: -131.903+/-0.791 χ^2/NDF : 9856.2/71

In: -140.783+/-0.345 χ^2/NDF :6818.0/57

Out: -141.713+/-0.339 χ^2/NDF :5882.7/61

All: -141.257+/-0.242 χ^2/NDF : 12704.4/119

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.344 ± 0.053 χ^2/NDF : 2237.5/34

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.813 ± 0.056 χ^2/NDF : 2116.2/36

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

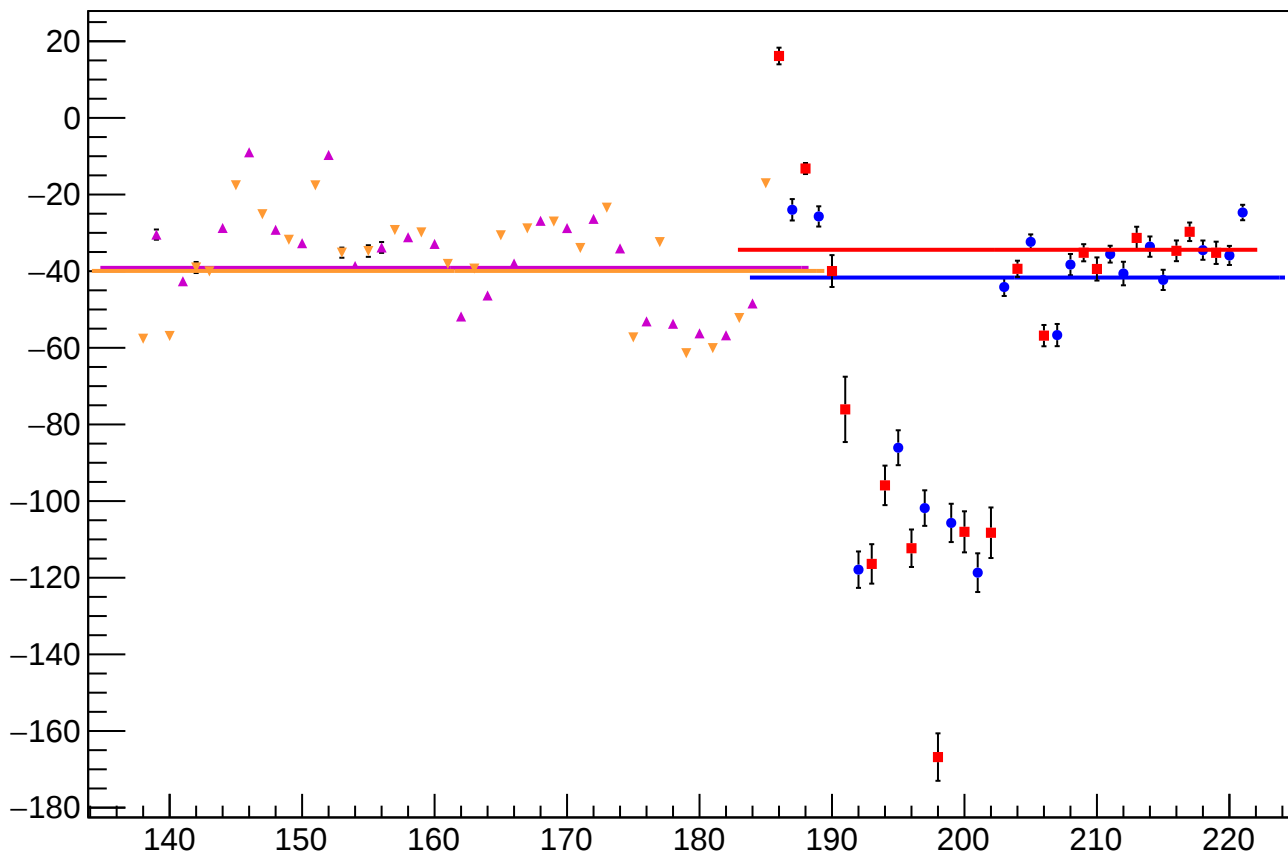
Right: 1.092 ± 0.038 χ^2/NDF : 4401.5/71

In: 1.507 ± 0.016 χ^2/NDF : 2986.4/57

Out: 1.508 ± 0.016 χ^2/NDF : 2827.6/61

All: 1.507 ± 0.011 χ^2/NDF : 5814.0/119

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected

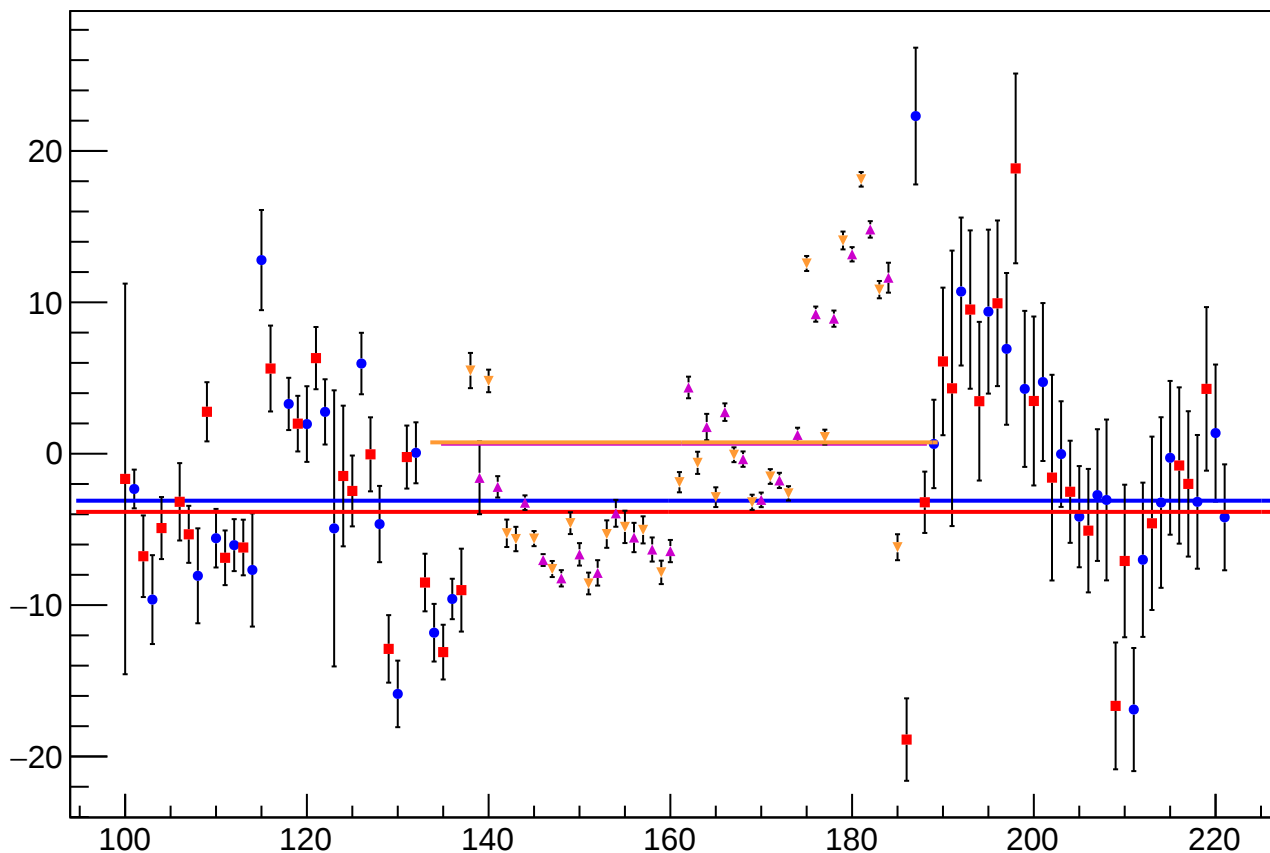


Right In: -41.663 ± 0.652 $\chi^2/\text{NDF}: 1147.3/17$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -34.417 ± 0.678 $\chi^2/\text{NDF}: 2283.5/17$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -38.181 ± 0.470 $\chi^2/\text{NDF}: 3490.1/35$
 In: -39.272 ± 0.150 $\chi^2/\text{NDF}: 9696.0/40$
 Out: -39.667 ± 0.149 $\chi^2/\text{NDF}: 12153.0/42$

All: -39.471 ± 0.106 $\chi^2/\text{NDF}: 21852.5/83$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.104 ± 0.448 $\chi^2/\text{NDF}: 232.6/34$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.842 ± 0.452 $\chi^2/\text{NDF}: 200.2/36$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

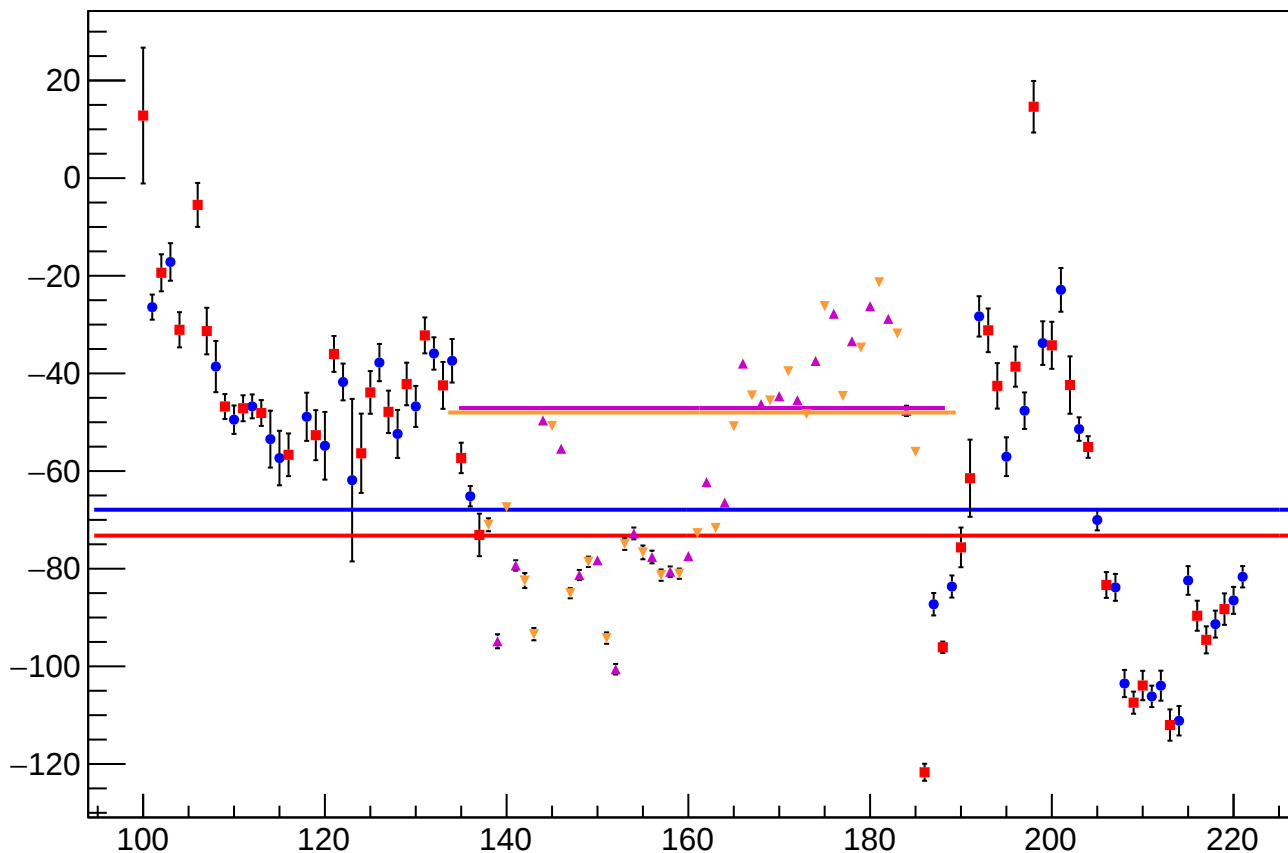
Right: -3.470 ± 0.318 $\chi^2/\text{NDF}: 434.1/71$

In: 0.391 ± 0.120 $\chi^2/\text{NDF}: 3635.9/57$

Out: 0.427 ± 0.120 $\chi^2/\text{NDF}: 4266.9/61$

All: 0.409 ± 0.085 $\chi^2/\text{NDF}: 7902.9/119$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected

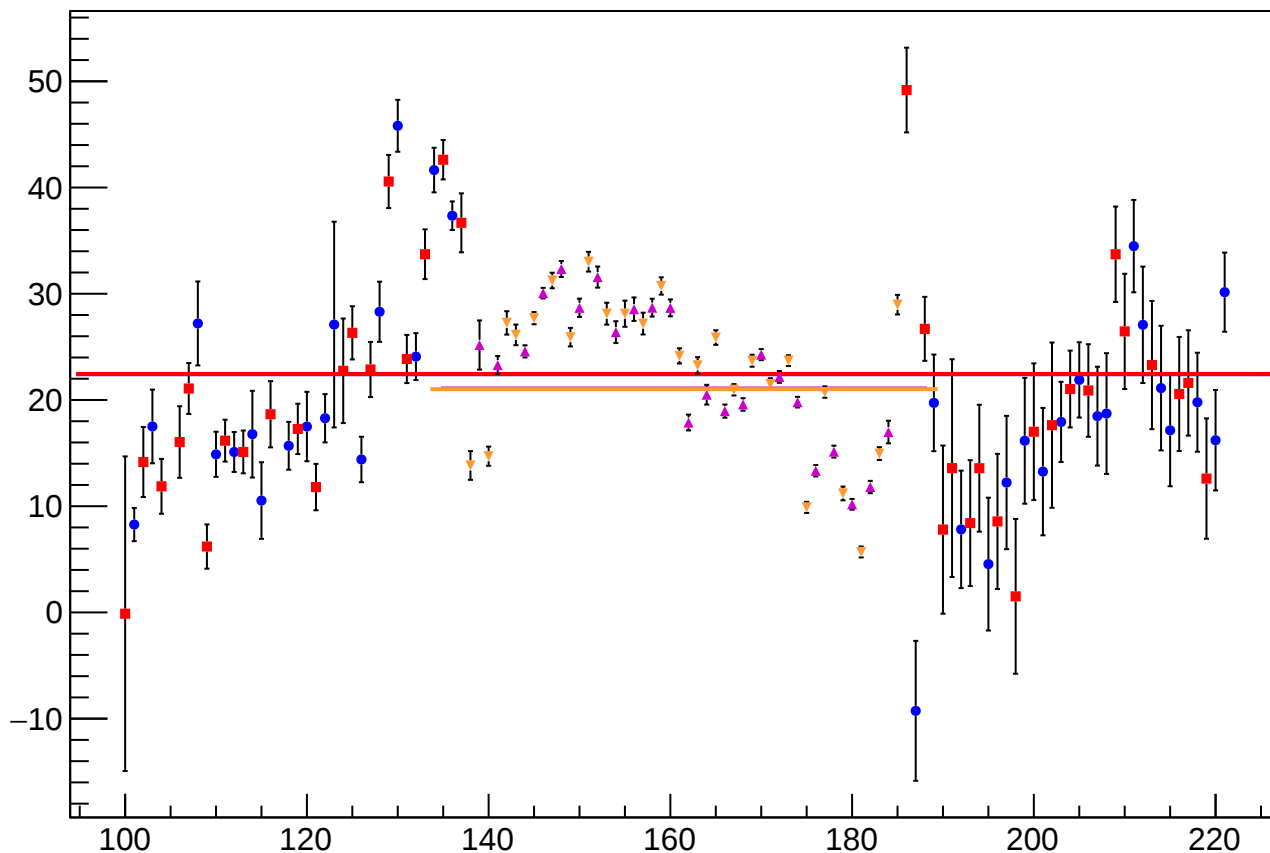


Right In: -67.918 ± 0.526 $\chi^2/\text{NDF}: 2376.3/34$
 Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$
 Right Out: -73.224 ± 0.514 $\chi^2/\text{NDF}: 3839.0/36$
 Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$
 Right: -70.631 ± 0.367 $\chi^2/\text{NDF}: 6267.5/71$
 In: -48.759 ± 0.149 $\chi^2/\text{NDF}: 19336.4/57$
 Out: -50.103 ± 0.148 $\chi^2/\text{NDF}: 22997.2/61$

All: -49.435 ± 0.105 $\chi^2/\text{NDF}: 42374.6/119$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.426 $\pm$ 0.504 χ^2 /NDF: 521.9/34

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF: 2799.3/24

Right Out: 22.453 $\pm$ 0.518 χ^2 /NDF: 449.7/36

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

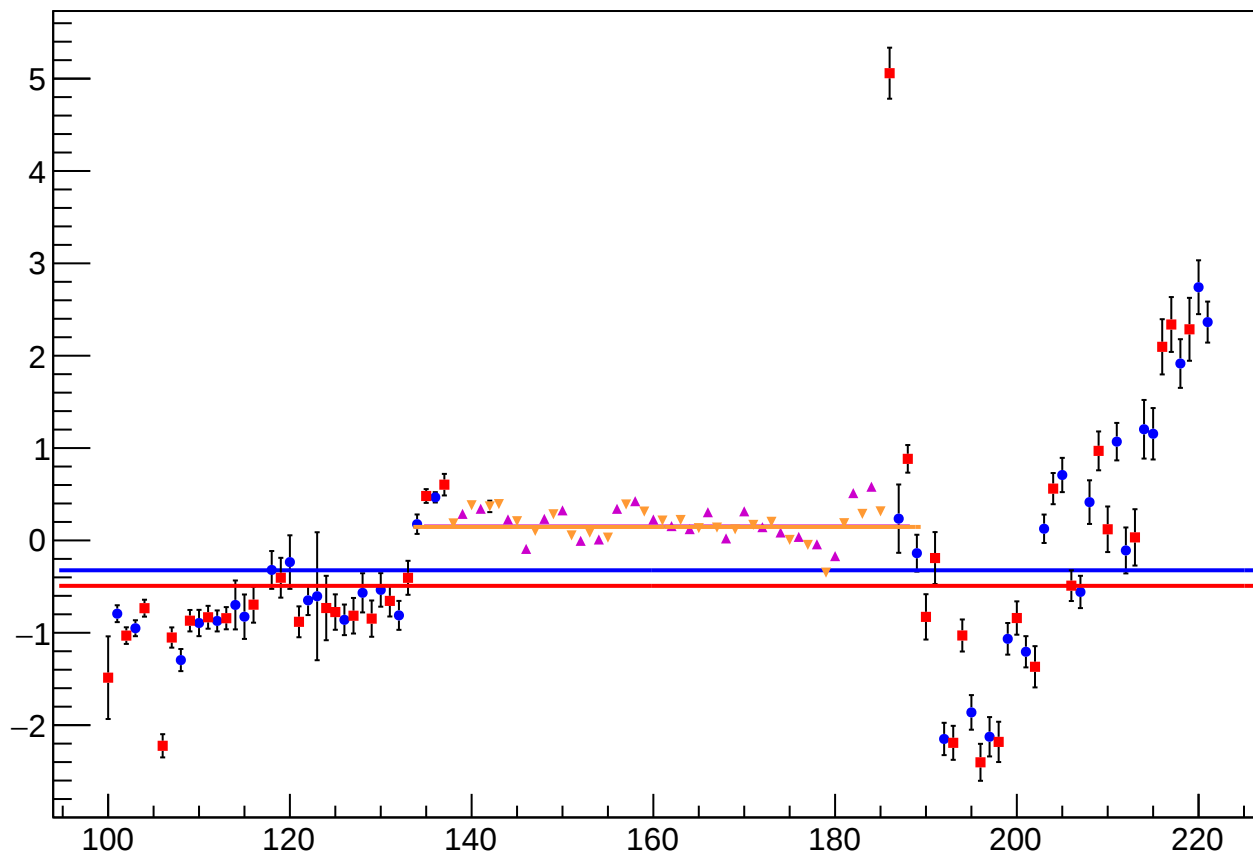
Right: 22.439 $\pm$ 0.361 χ^2 /NDF: 971.6/71

In: 21.175 $\pm$ 0.135 χ^2 /NDF: 2701.8/57

Out: 21.116 $\pm$ 0.134 χ^2 /NDF: 3256.1/61

All: 21.145 $\pm$ 0.095 χ^2 /NDF: 5958.0/119

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.323 ± 0.026 $\chi^2/\text{NDF}: 1217.4/34$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.492 ± 0.026 $\chi^2/\text{NDF}: 1649.7/36$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

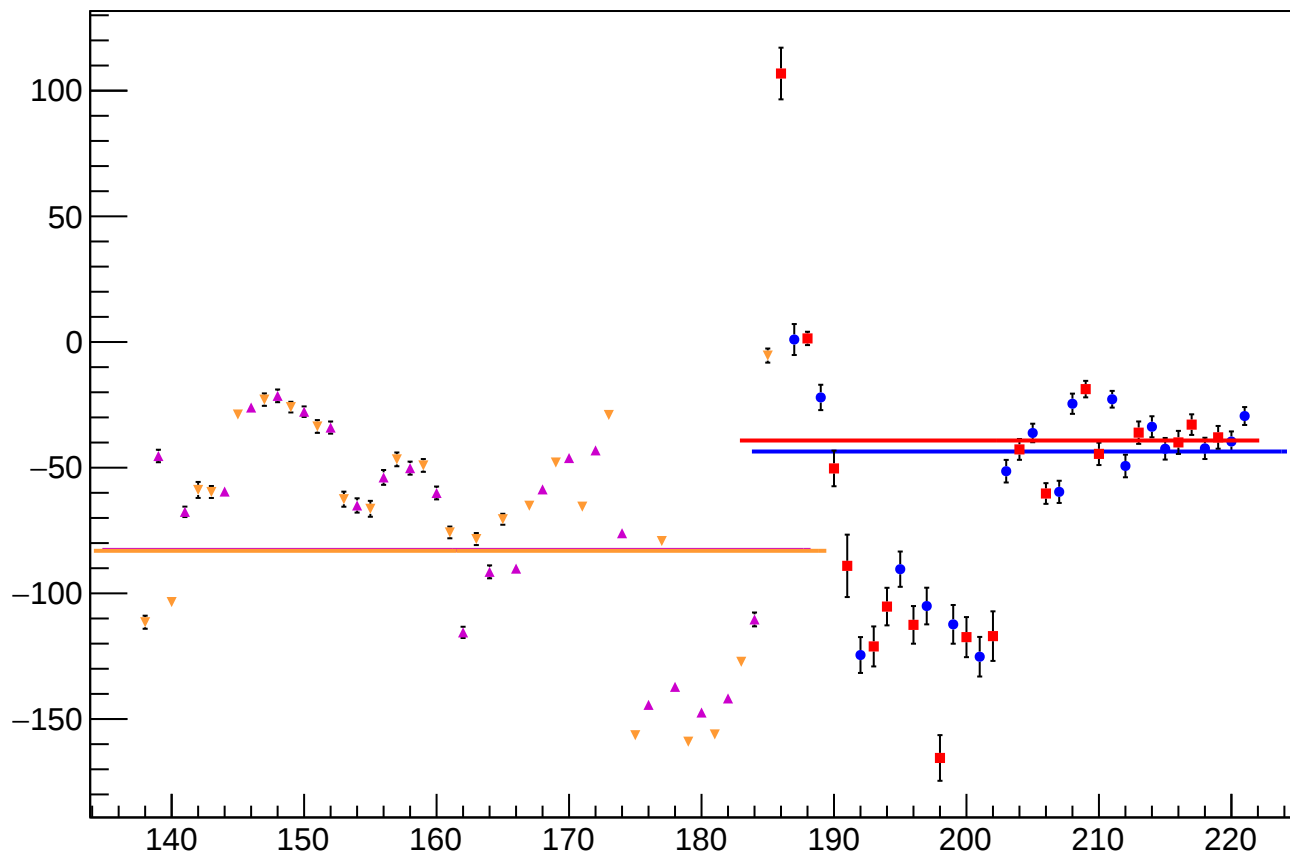
Right: -0.407 ± 0.018 $\chi^2/\text{NDF}: 2888.4/71$

In: 0.123 ± 0.006 $\chi^2/\text{NDF}: 2408.5/57$

Out: 0.110 ± 0.006 $\chi^2/\text{NDF}: 2832.8/61$

All: 0.117 ± 0.004 $\chi^2/\text{NDF}: 5243.6/119$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -43.564 ± 1.090 χ^2/NDF : 607.5/17

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -39.186 ± 1.167 χ^2/NDF : 1156.5/17

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

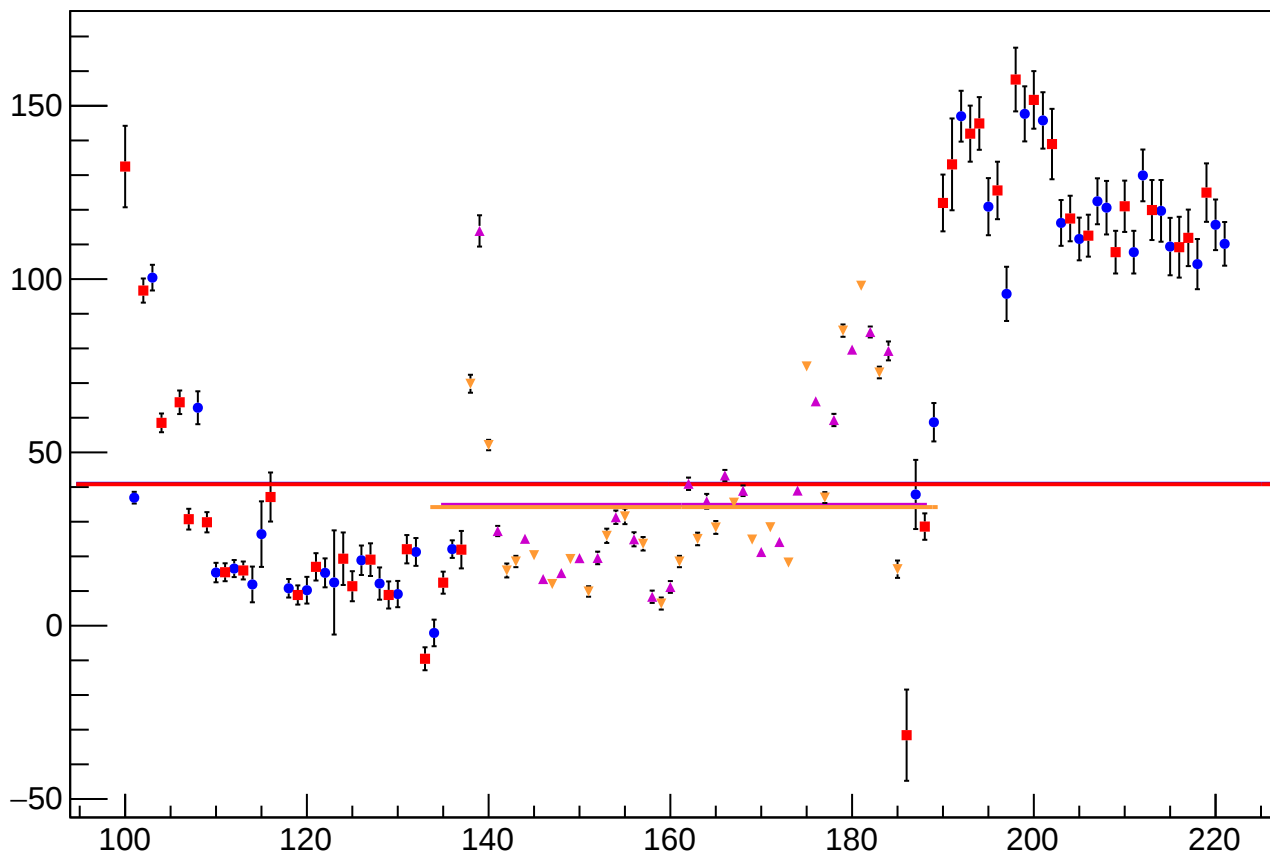
Right: -41.524 ± 0.797 χ^2/NDF : 1771.5/35

In: -77.756 ± 0.388 χ^2/NDF : 12574.5/40

Out: -78.323 ± 0.384 χ^2/NDF : 16234.8/42

All: -78.043 ± 0.273 χ^2/NDF : 28810.4/83

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 40.941 $\pm$ 0.729 χ^2 /NDF: 3009.7/34

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 40.819 $\pm$ 0.735 χ^2 /NDF: 3181.4/36

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF:4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

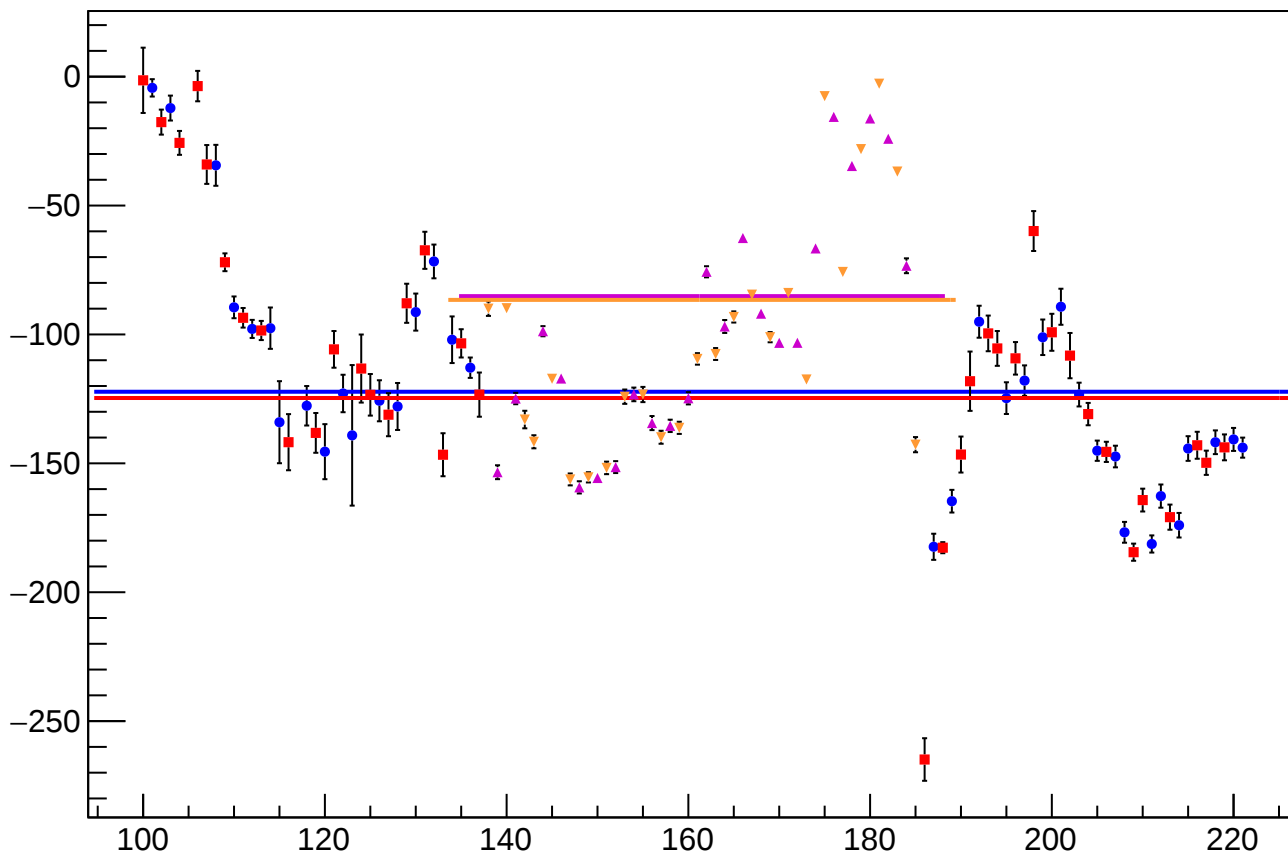
Right: 40.881 $\pm$ 0.518 χ^2 /NDF: 6191.0/71

In: 35.897 $\pm$ 0.300 χ^2 /NDF:7783.4/57

Out: 35.271 $\pm$ 0.294 χ^2 /NDF:9441.7/61

All: 35.578 $\pm$ 0.210 χ^2 /NDF: 17227.3/119

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -122.227 ± 0.867 $\chi^2/\text{NDF}: 3217.4/34$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -124.658 ± 0.862 $\chi^2/\text{NDF}: 3798.6/36$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

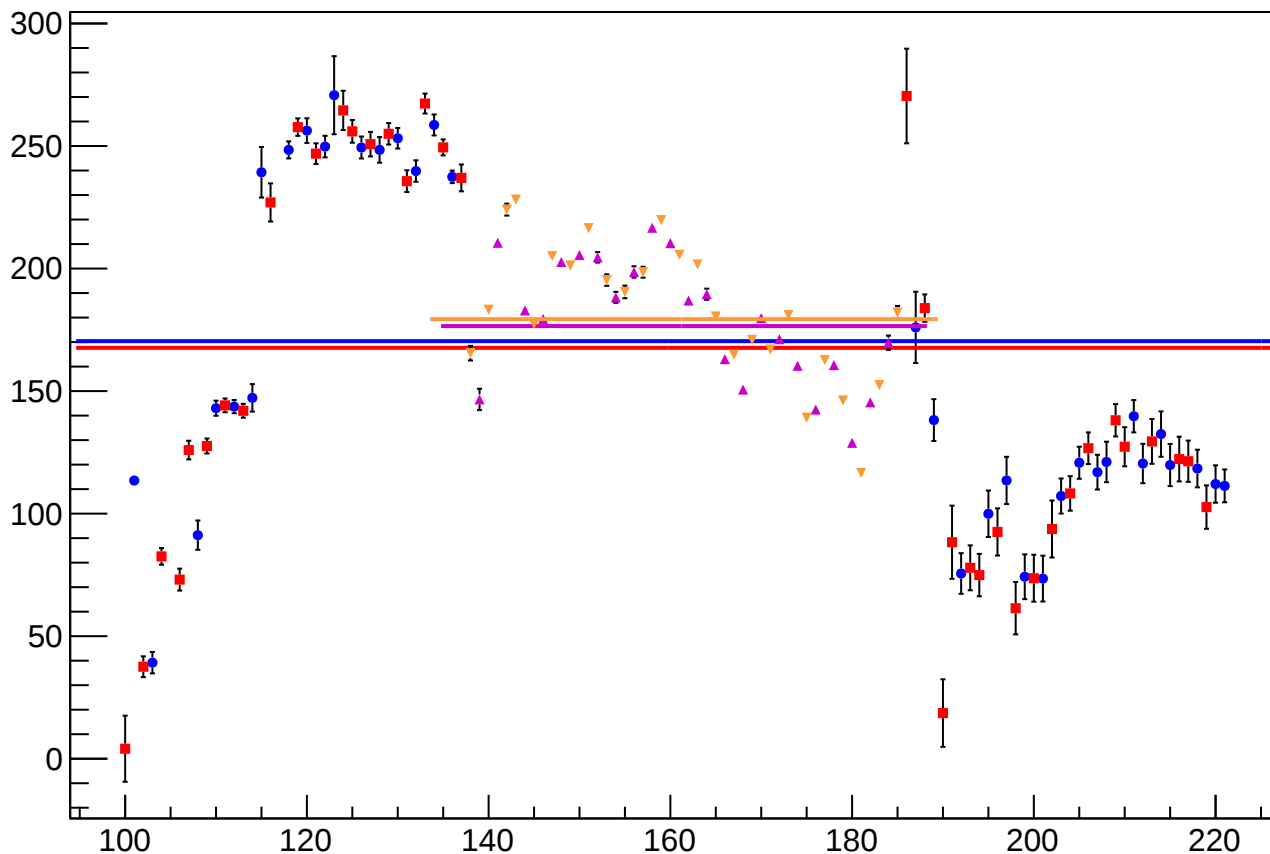
Right: -123.449 ± 0.611 $\chi^2/\text{NDF}: 7020.0/71$

In: -92.051 ± 0.374 $\chi^2/\text{NDF}: 17548.3/57$

Out: -93.575 ± 0.369 $\chi^2/\text{NDF}: 19906.8/61$

All: -92.823 ± 0.263 $\chi^2/\text{NDF}: 37463.5/119$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 170.382 $\pm$ 0.829 χ^2 /NDF: 6494.1/34

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF:5982.2/24

Right Out: 167.650 $\pm$ 0.842 χ^2 /NDF: 7430.8/36

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF:4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

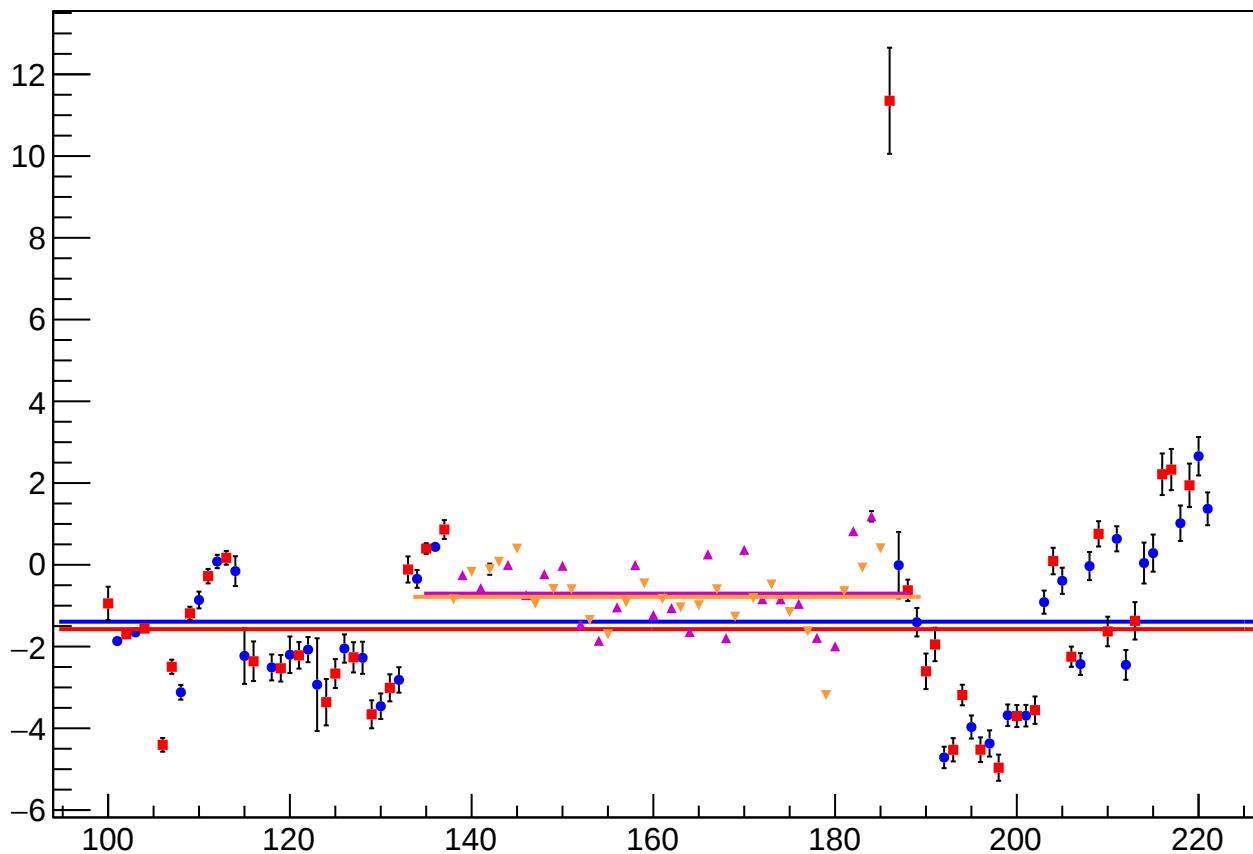
Right: 169.038 $\pm$ 0.591 χ^2 /NDF: 13930.3/71

In: 175.505 $\pm$ 0.339 χ^2 /NDF:10966.0/57

Out: 177.534 $\pm$ 0.332 χ^2 /NDF:13576.2/61

All: 176.538 $\pm$ 0.237 χ^2 /NDF: 24560.5/119

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.391 ± 0.041 χ^2/NDF : 1390.9/34

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.574 ± 0.040 χ^2/NDF : 1758.5/36

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

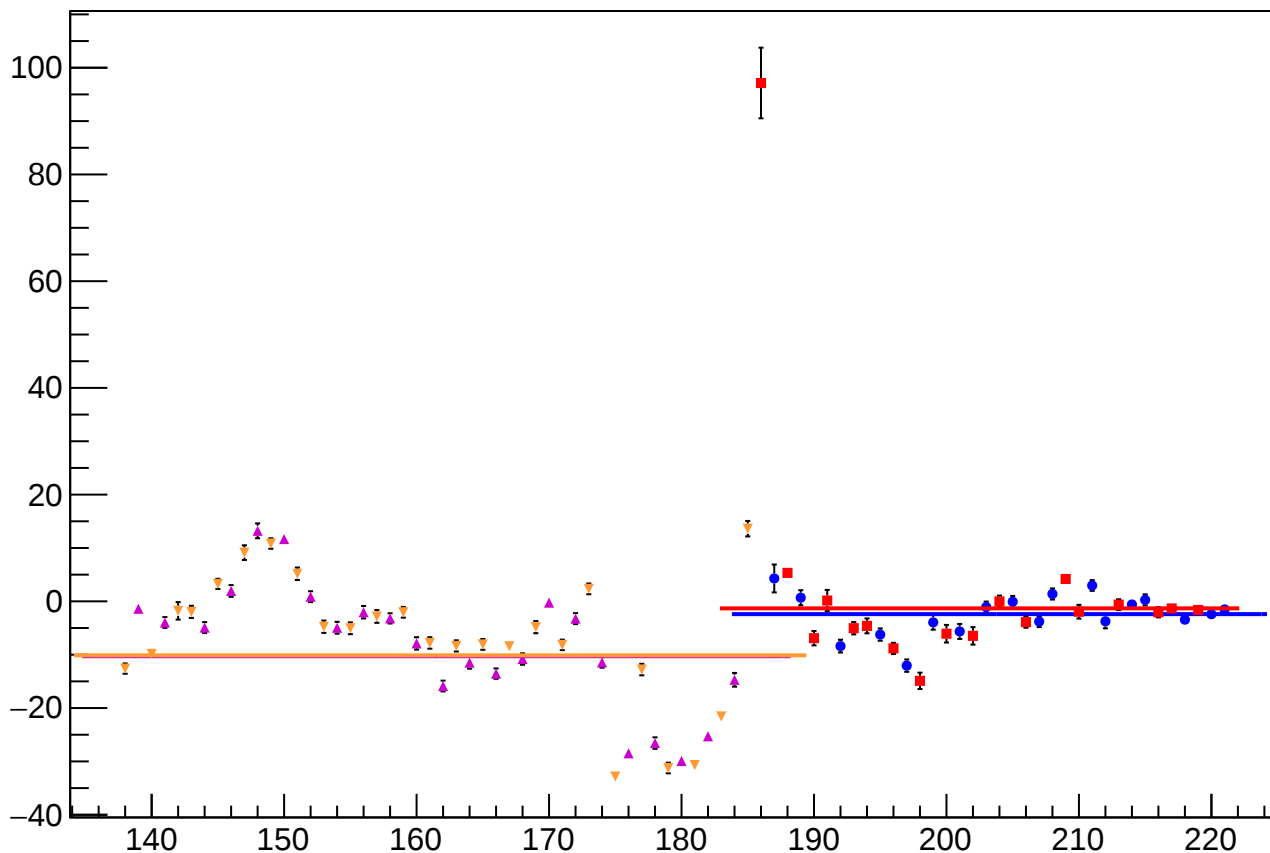
Right: -1.486 ± 0.029 χ^2/NDF : 3159.6/71

In: -0.804 ± 0.016 χ^2/NDF : 4037.7/57

Out: -0.901 ± 0.015 χ^2/NDF : 3867.3/61

All: -0.854 ± 0.011 χ^2/NDF : 7924.4/119

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.398 ± 0.257 χ^2/NDF : 186.3/17

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.315 ± 0.261 χ^2/NDF : 559.3/17

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

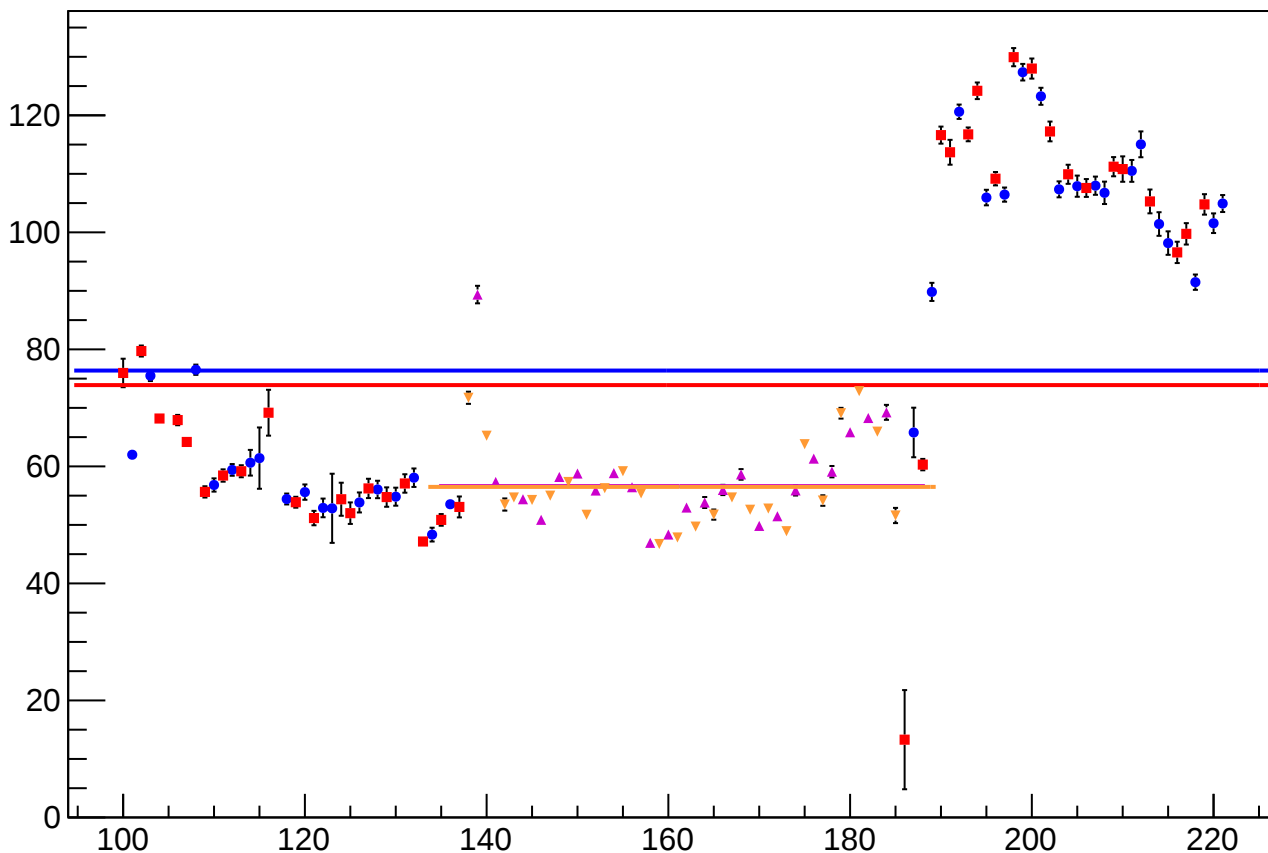
Right: -1.866 ± 0.183 χ^2/NDF : 754.4/35

In: -7.210 ± 0.160 χ^2/NDF : 4213.4/40

Out: -6.833 ± 0.159 χ^2/NDF : 5410.0/42

All: -7.020 ± 0.113 χ^2/NDF : 9626.3/83

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 76.379+/-0.215 χ^2/NDF : 12465.6/34

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 73.893+/-0.206 χ^2/NDF : 15347.5/36

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

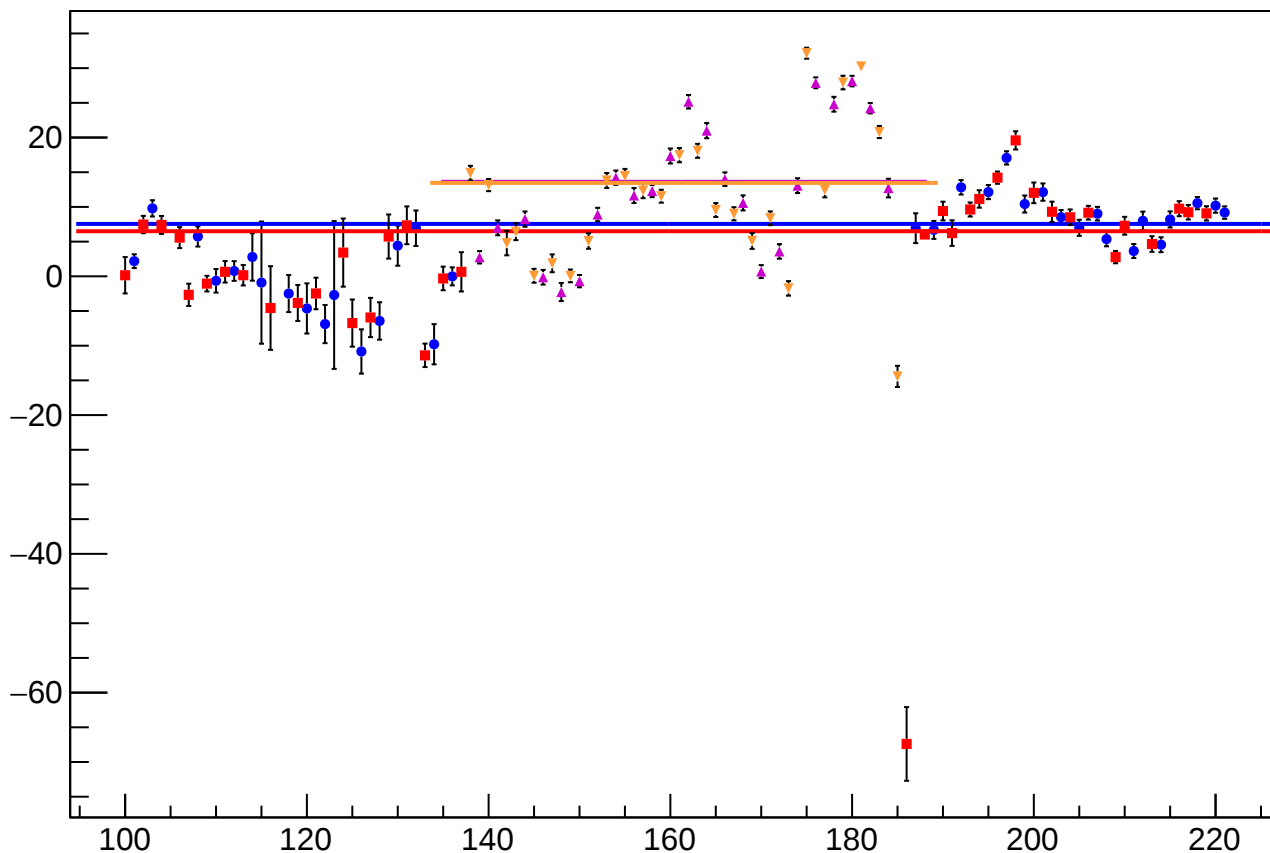
Right: 75.082+/-0.148 χ^2/NDF : 27883.1/71

In: 63.976+/-0.131 χ^2/NDF :19388.7/57

Out: 63.002+/-0.126 χ^2/NDF :21799.7/61

All: 63.469+/-0.091 χ^2/NDF : 41217.2/119

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.552 ± 0.223 χ^2/NDF : 485.1/34

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.498 ± 0.215 χ^2/NDF : 788.7/36

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

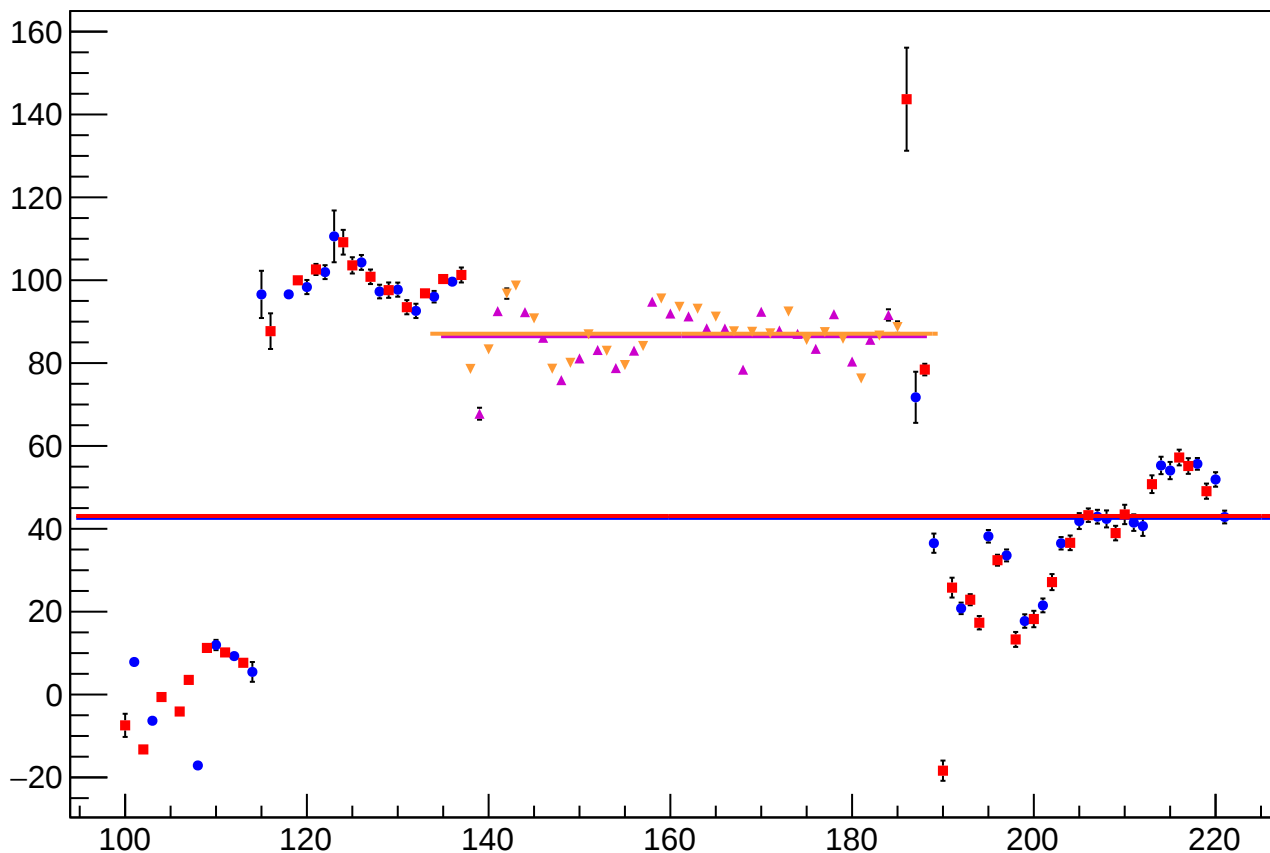
Right: 7.005 ± 0.155 χ^2/NDF : 1285.3/71

In: 10.849 ± 0.151 χ^2/NDF : 3202.8/57

Out: 10.203 ± 0.147 χ^2/NDF : 4084.1/61

All: 10.518 ± 0.105 χ^2/NDF : 7296.3/119

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.643 $\pm$ 0.246 χ^2 /NDF: 25665.5/34

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 43.095 $\pm$ 0.240 χ^2 /NDF: 30888.0/36

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

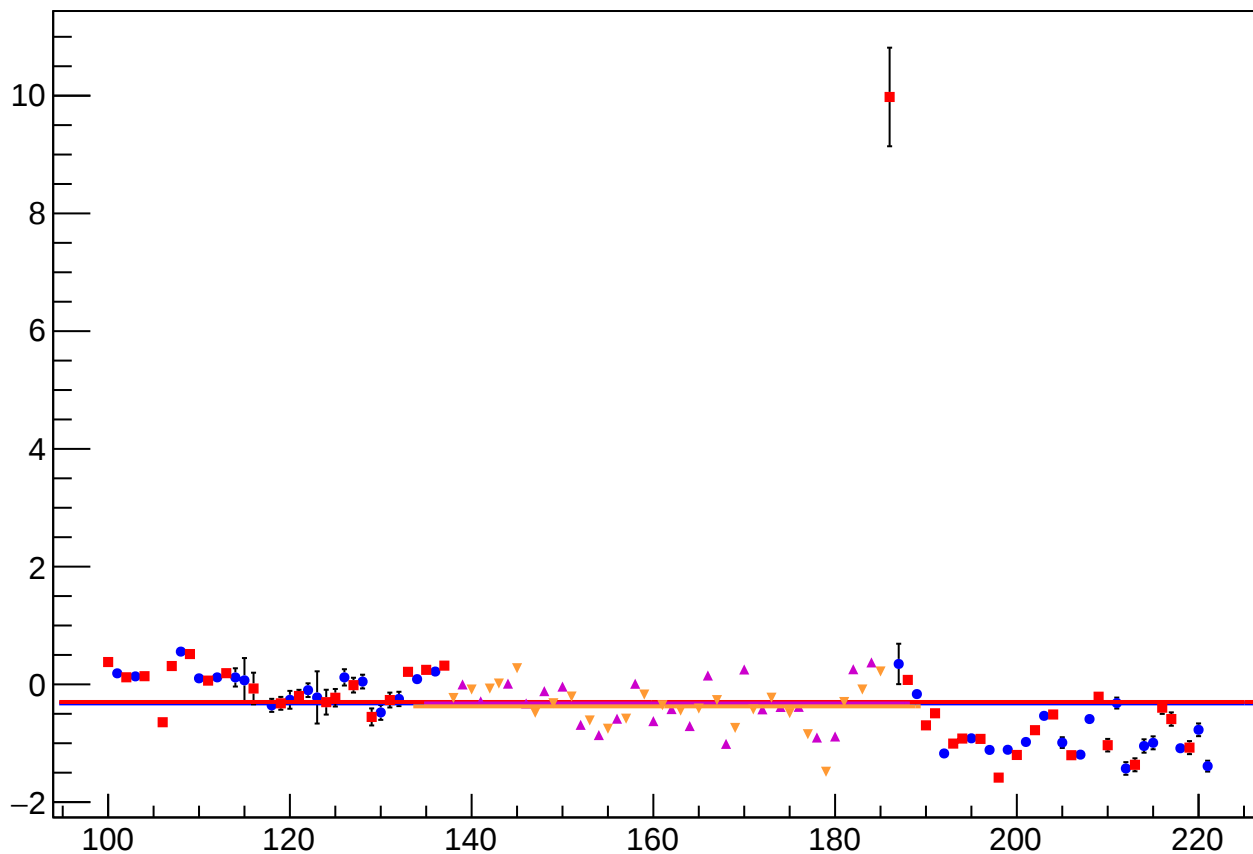
Right: 42.875 $\pm$ 0.172 χ^2 /NDF: 56555.1/71

In: 70.661 $\pm$ 0.148 χ^2 /NDF:47018.6/57

Out: 71.335 $\pm$ 0.143 χ^2 /NDF:53581.3/61

All: 71.008 $\pm$ 0.103 χ^2 /NDF: 100610.7/119

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.323 ± 0.010 χ^2/NDF : 3649.1/34

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.299 ± 0.010 χ^2/NDF : 3761.0/36

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

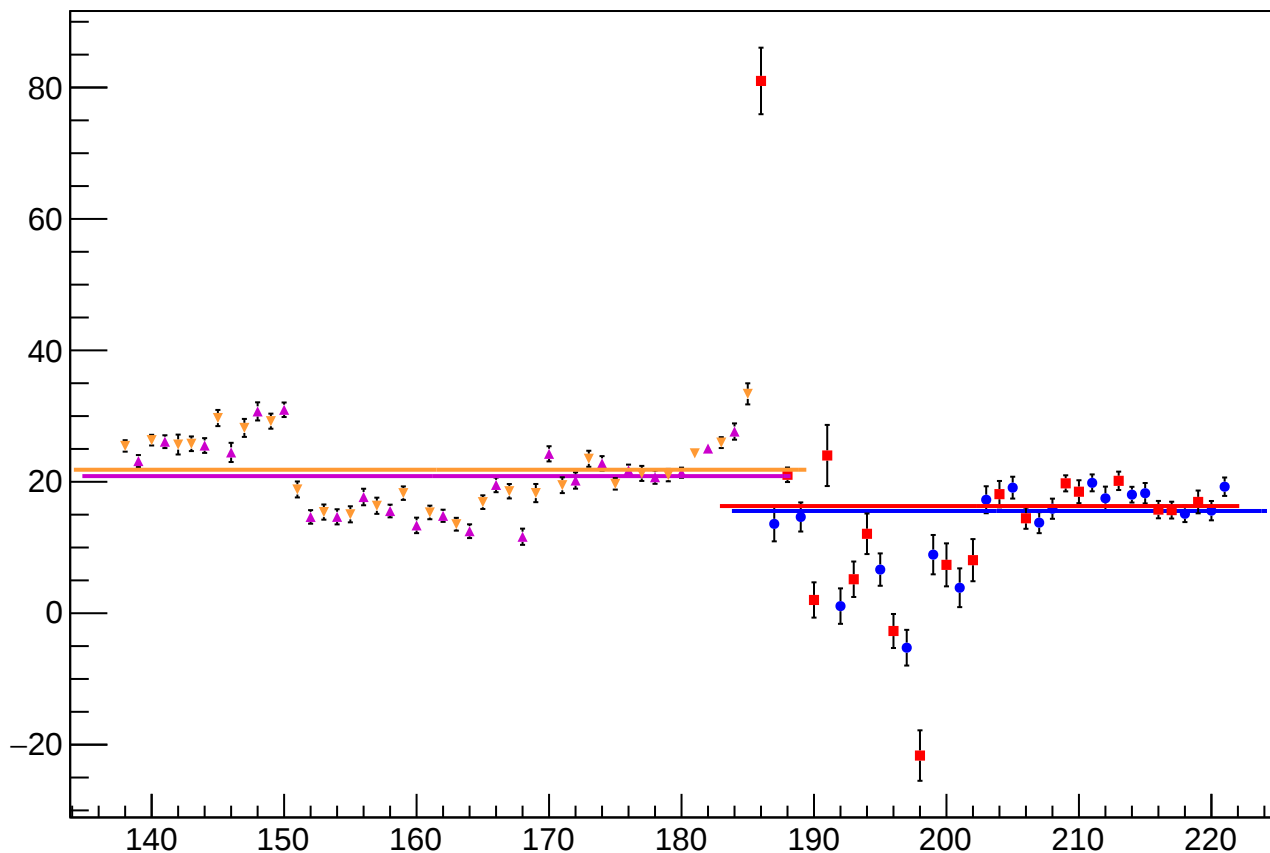
Right: -0.310 ± 0.007 χ^2/NDF : 7412.9/71

In: -0.324 ± 0.006 χ^2/NDF : 5933.3/57

Out: -0.343 ± 0.006 χ^2/NDF : 5463.3/61

All: -0.334 ± 0.004 χ^2/NDF : 11401.1/119

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.560 +/- 0.406 χ^2/NDF : 155.1/17

Left Out: 21.836 +/- 0.210 χ^2/NDF : 524.3/24

Right Out: 16.310 +/- 0.432 χ^2/NDF : 417.2/17

Left In: 20.866 +/- 0.217 χ^2/NDF : 576.9/22

Left: 21.366 +/- 0.151 χ^2/NDF : 1111.6/47

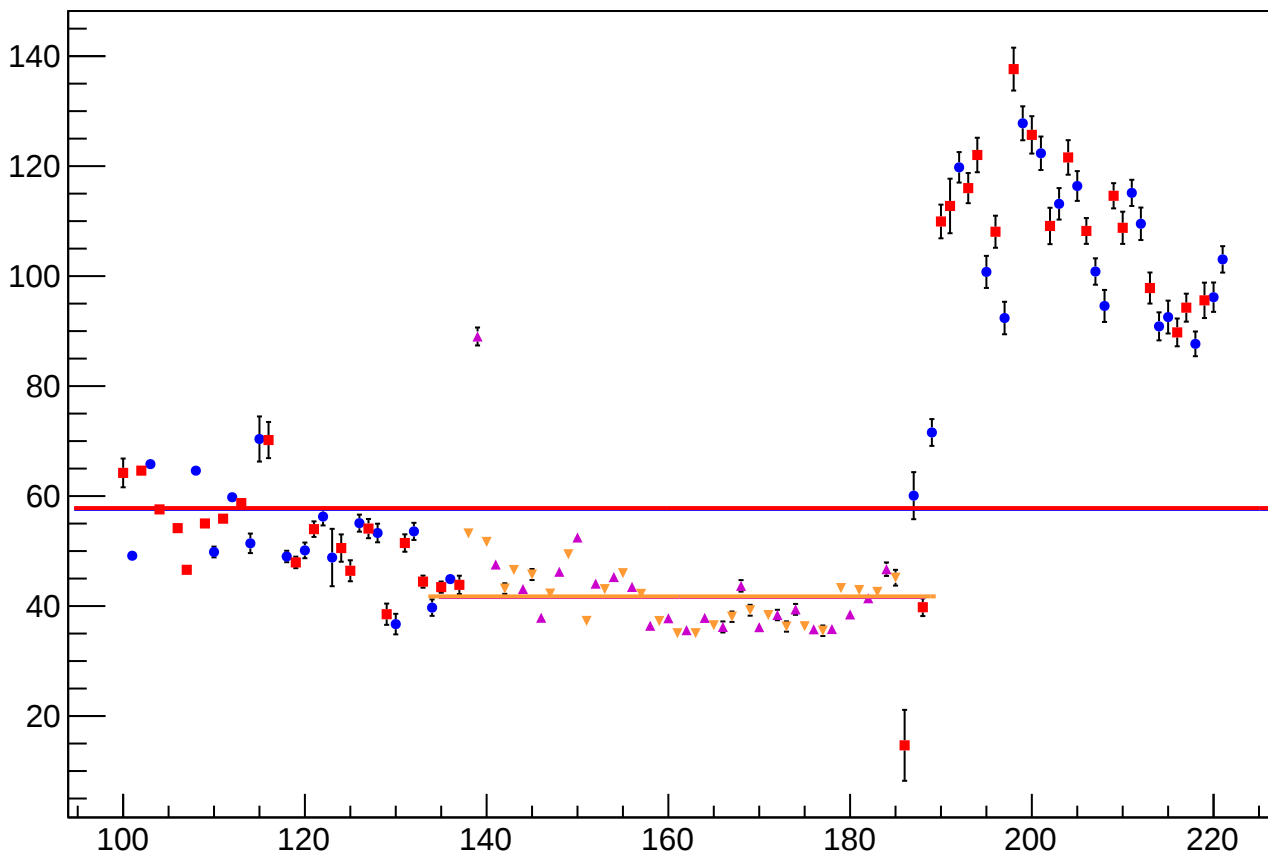
Right: 15.911 +/- 0.296 χ^2/NDF : 573.9/35

In: 19.690 +/- 0.191 χ^2/NDF : 864.8/40

Out: 20.783 +/- 0.189 χ^2/NDF : 1073.8/42

All: 20.244 +/- 0.134 χ^2/NDF : 1955.2/83

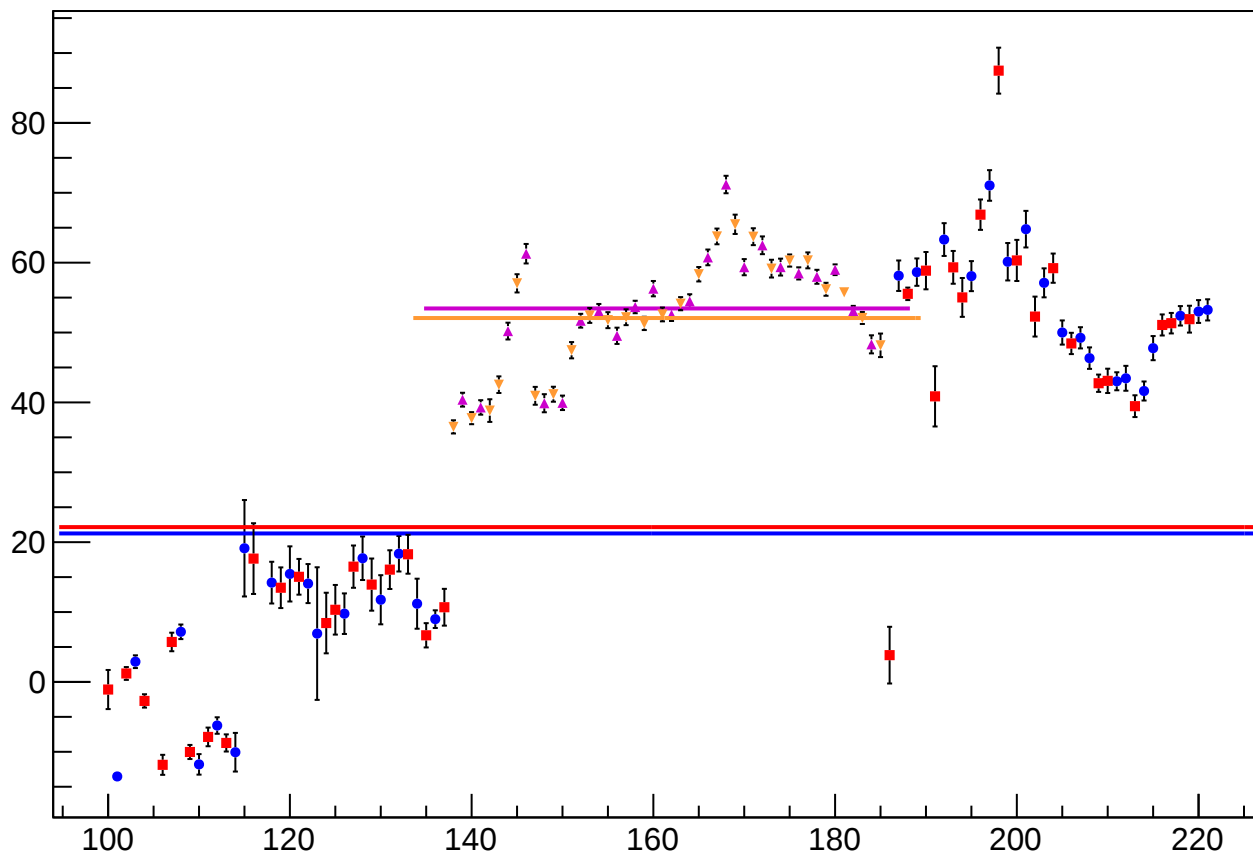
reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.666 ± 0.201 χ^2/NDF : 6817.4/34
 Left Out: 41.757 ± 0.165 χ^2/NDF : 1015.7/24
 Right Out: 57.814 ± 0.215 χ^2/NDF : 6571.8/36
 Left In: 41.643 ± 0.174 χ^2/NDF : 1611.0/22

Left: 41.703 ± 0.120 χ^2/NDF : 2626.9/47
 Right: 57.735 ± 0.147 χ^2/NDF : 13389.4/71
 In: 48.515 ± 0.131 χ^2/NDF : 12074.7/57
 Out: 47.739 ± 0.131 χ^2/NDF : 11100.2/61
 All: 48.126 ± 0.093 χ^2/NDF : 23192.3/119

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 21.248 $\pm$ 0.273 χ^2 /NDF: 10717.2/34

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 22.156 $\pm$ 0.282 χ^2 /NDF: 9565.4/36

Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47

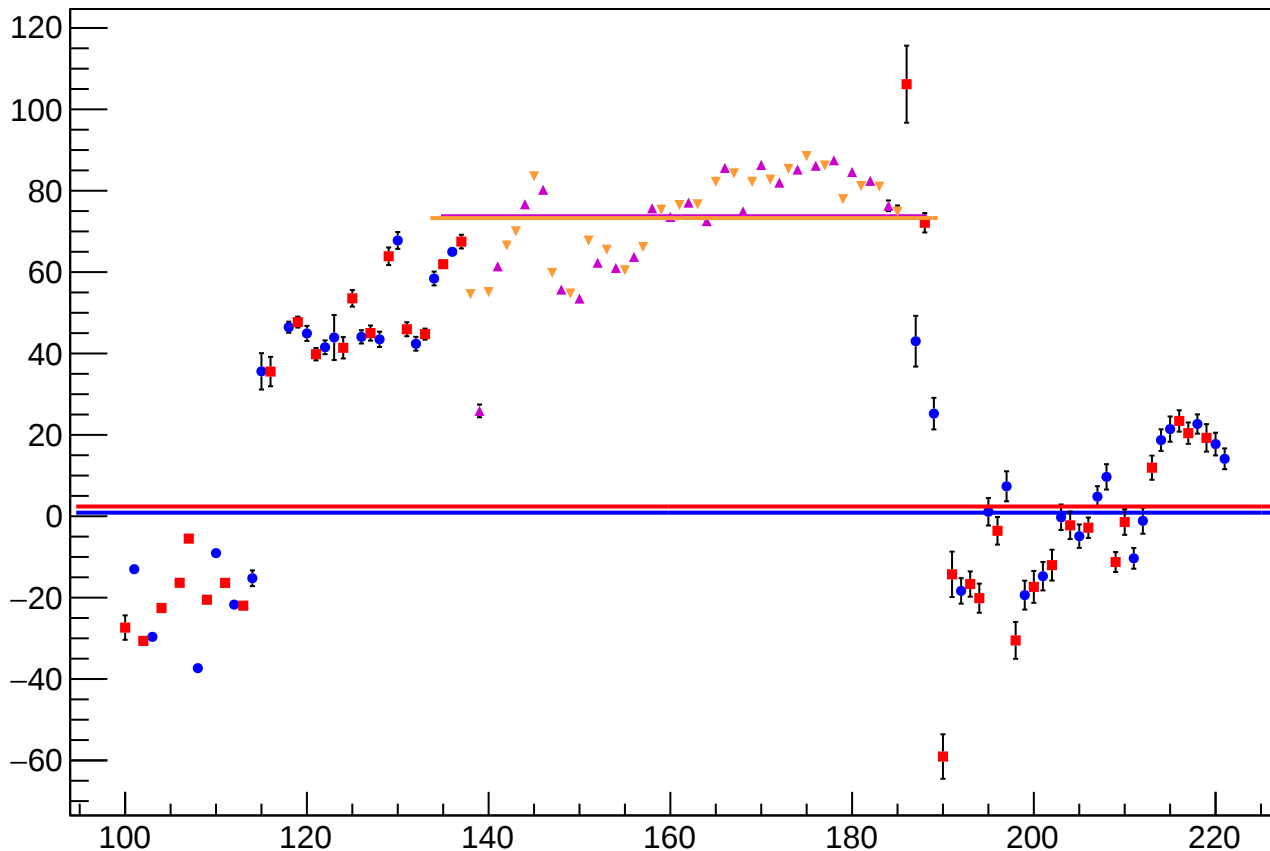
Right: 21.688 $\pm$ 0.196 χ^2 /NDF: 20288.0/71

In: 41.091 $\pm$ 0.169 χ^2 /NDF:20464.5/57

Out: 41.379 $\pm$ 0.168 χ^2 /NDF:18273.7/61

All: 41.236 $\pm$ 0.119 χ^2 /NDF: 38739.7/119

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.882 ± 0.234 χ^2/NDF : 18676.0/34

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 2.398 ± 0.252 χ^2/NDF : 16886.0/36

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

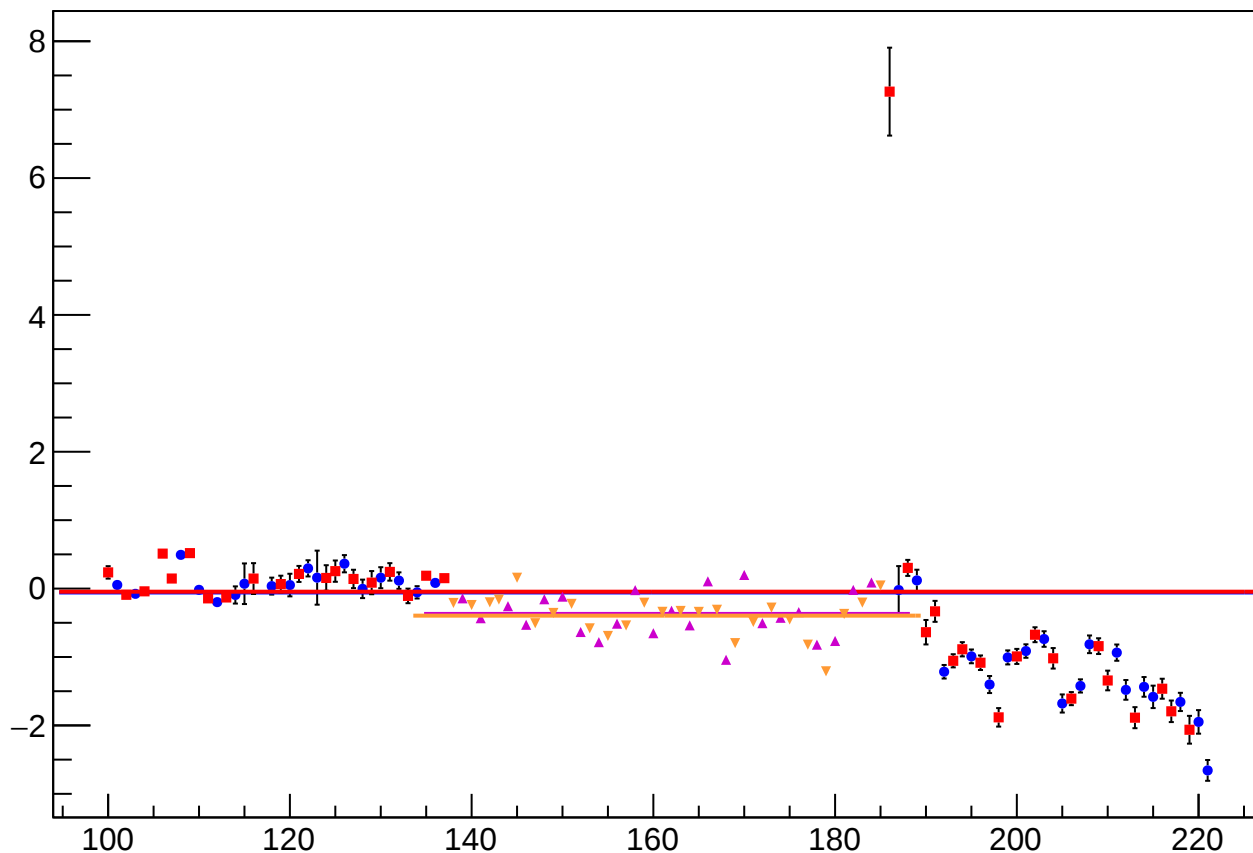
Right: 1.584 ± 0.171 χ^2/NDF : 35581.4/71

In: 43.997 ± 0.150 χ^2/NDF : 79804.9/57

Out: 48.125 ± 0.150 χ^2/NDF : 71113.6/61

All: 46.053 ± 0.106 χ^2/NDF : 151298.3/119

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.057 ± 0.010 χ^2/NDF : 2426.4/34

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.046 ± 0.010 χ^2/NDF : 2149.4/36

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

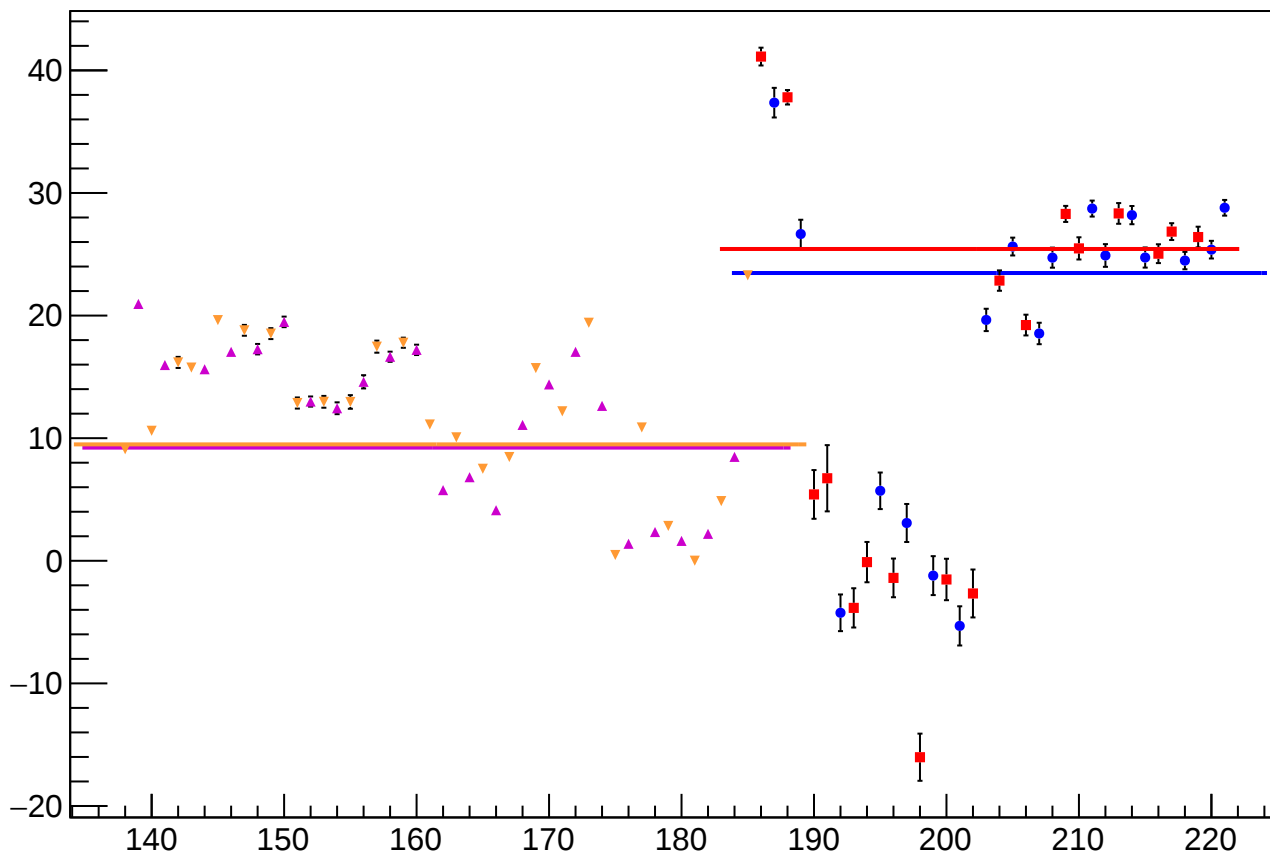
Right: -0.051 ± 0.007 χ^2/NDF : 4576.3/71

In: -0.241 ± 0.007 χ^2/NDF : 4278.8/57

Out: -0.254 ± 0.007 χ^2/NDF : 3779.7/61

All: -0.247 ± 0.005 χ^2/NDF : 8060.4/119

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 23.472 $\pm$ 0.210 χ^2 /NDF: 1612.5/17

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 25.432 $\pm$ 0.222 χ^2 /NDF: 2944.3/17

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

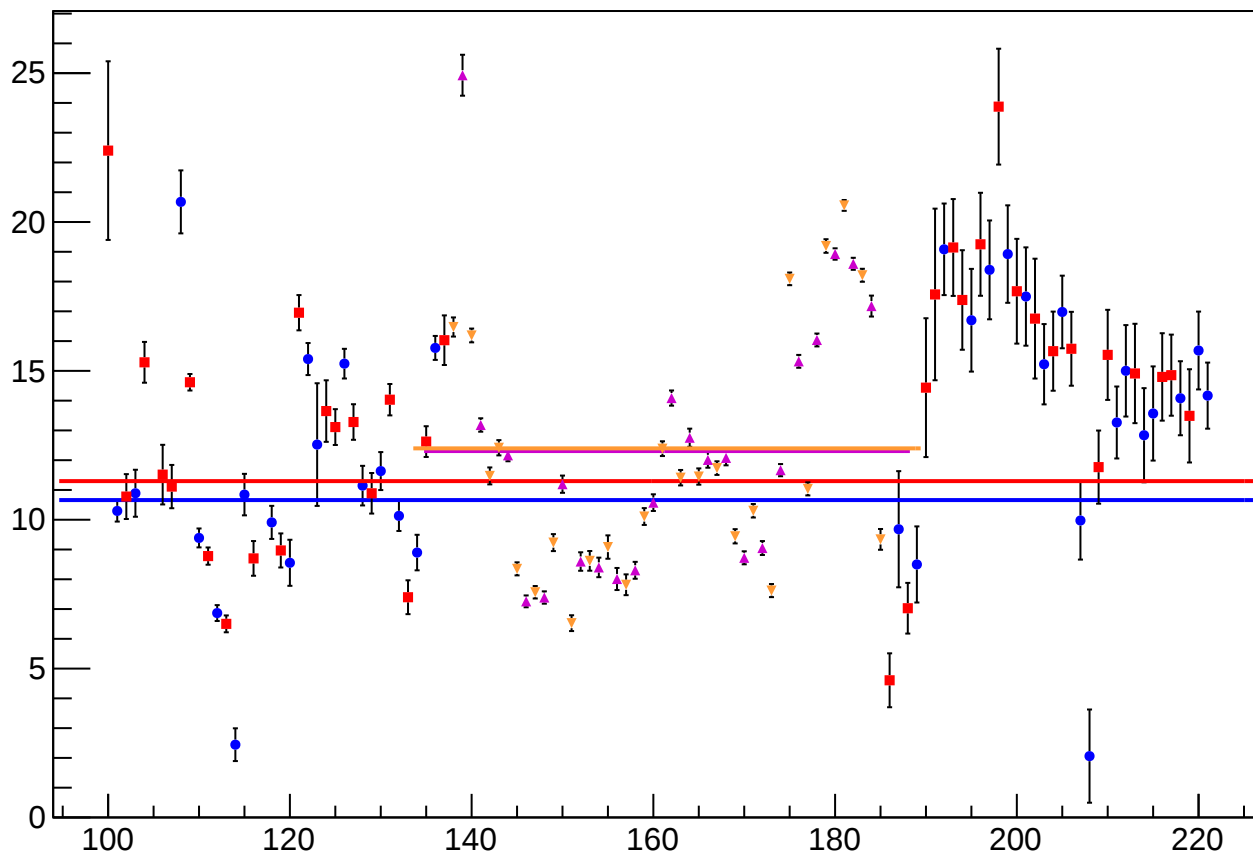
Right: 24.398 $\pm$ 0.153 χ^2 /NDF: 4597.8/35

In: 10.404 $\pm$ 0.060 χ^2 /NDF:16554.3/40

Out: 10.618 $\pm$ 0.059 χ^2 /NDF:20325.8/42

All: 10.514 $\pm$ 0.042 χ^2 /NDF: 36886.5/83

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.660 $\pm$ 0.113 χ^2 /NDF: 1106.7/34

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.297 $\pm$ 0.110 χ^2 /NDF: 1076.8/36

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

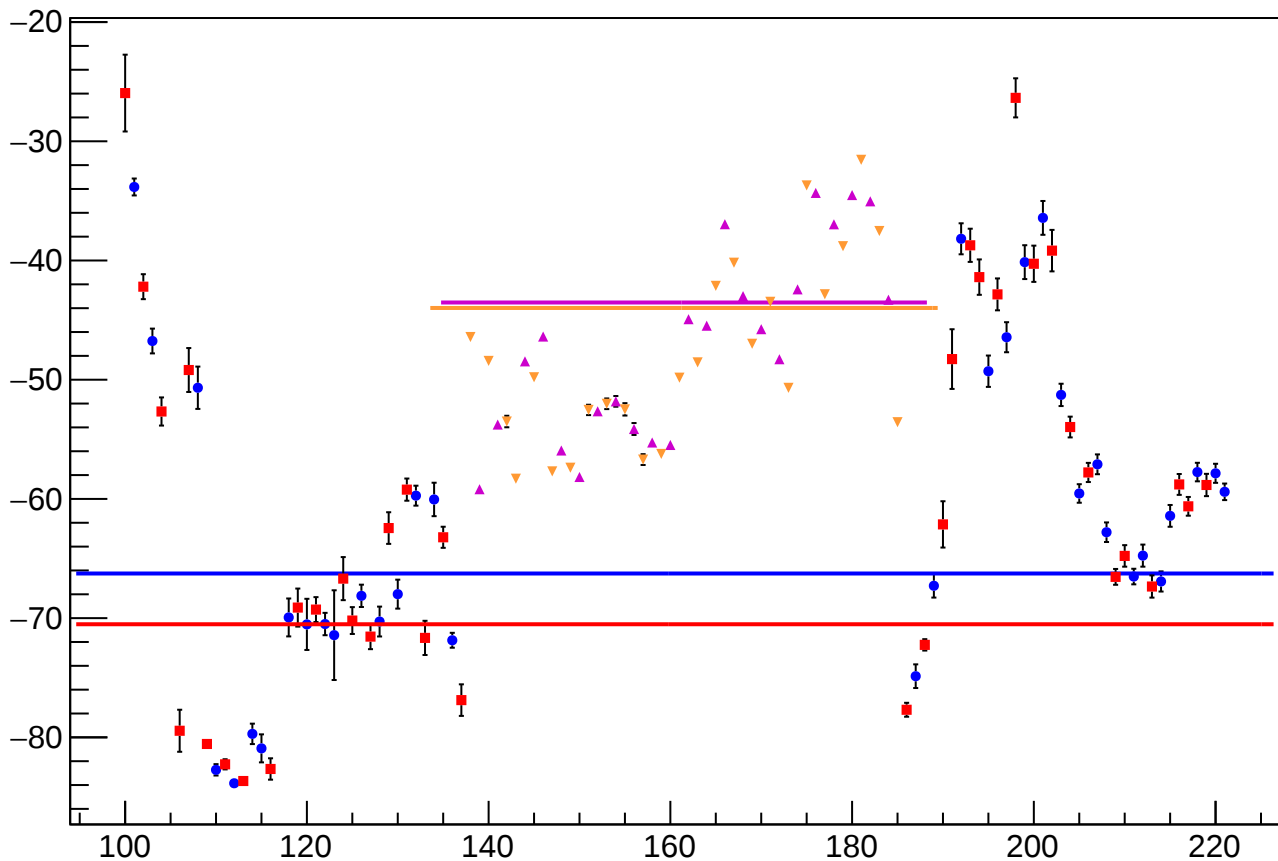
Right: 10.986 $\pm$ 0.079 χ^2 /NDF: 2199.8/71

In: 12.025 $\pm$ 0.047 χ^2 /NDF: 6885.5/57

Out: 12.211 $\pm$ 0.045 χ^2 /NDF: 8702.6/61

All: 12.121 $\pm$ 0.032 χ^2 /NDF: 15596.2/119

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.256 ± 0.145 $\chi^2/\text{NDF}: 9026.6/34$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -70.513 ± 0.138 $\chi^2/\text{NDF}: 8618.7/36$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

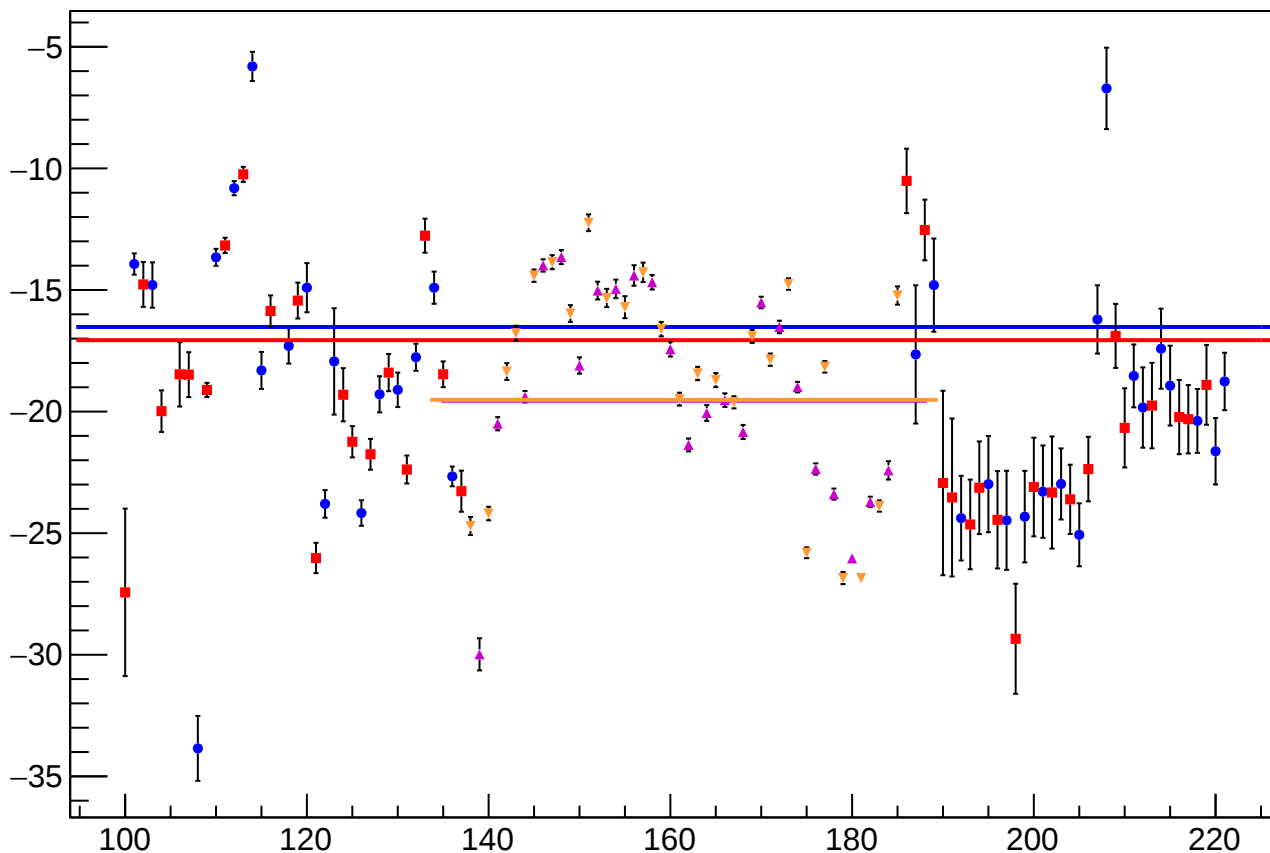
Right: -68.493 ± 0.100 $\chi^2/\text{NDF}: 18096.3/71$

In: -47.150 ± 0.058 $\chi^2/\text{NDF}: 44859.2/57$

Out: -48.426 ± 0.057 $\chi^2/\text{NDF}: 57092.7/61$

All: -47.805 ± 0.040 $\chi^2/\text{NDF}: 102199.7/119$

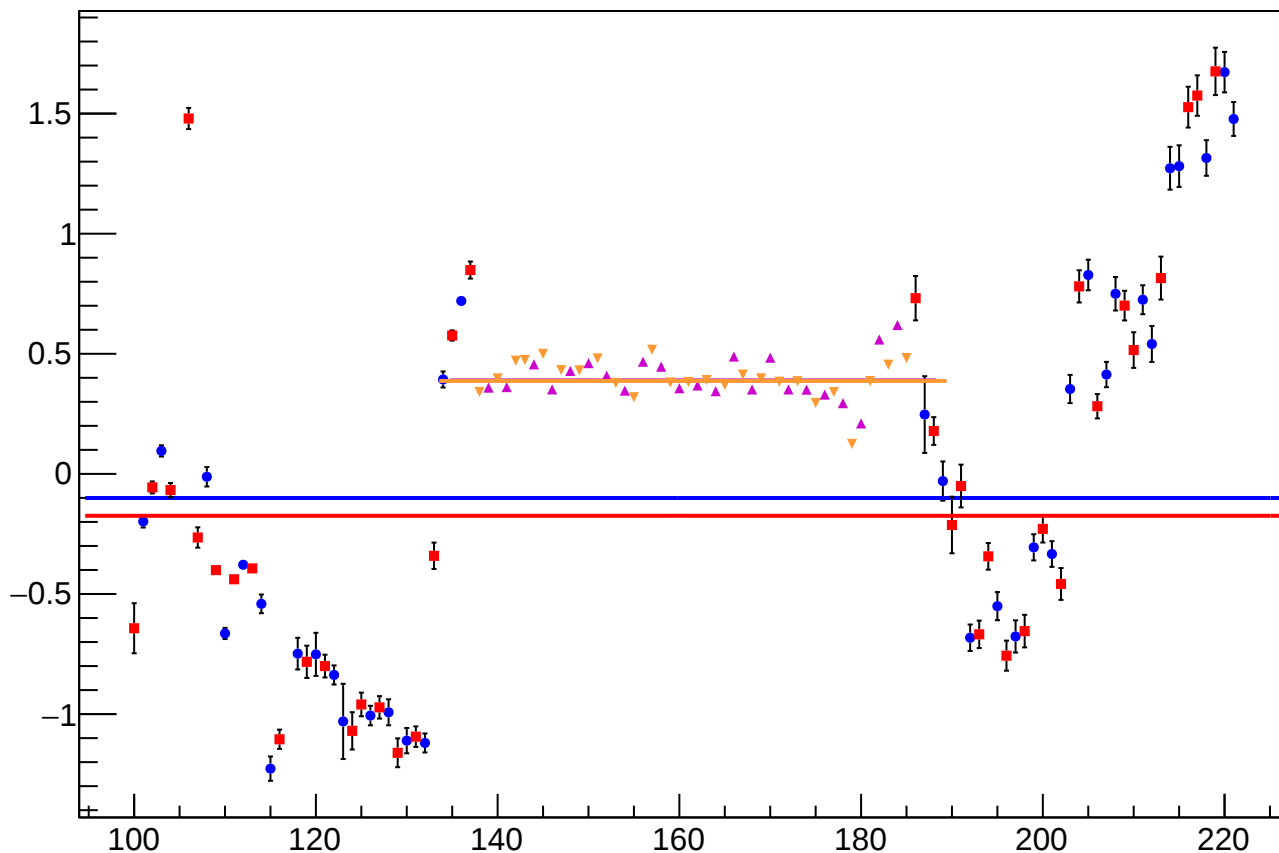
reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.521 ± 0.125 $\chi^2/\text{NDF}: 1841.1/34$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -17.063 ± 0.122 $\chi^2/\text{NDF}: 1401.8/36$
 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: -16.799 ± 0.087 $\chi^2/\text{NDF}: 3252.5/71$
 In: -19.028 ± 0.052 $\chi^2/\text{NDF}: 6638.4/57$
 Out: -19.093 ± 0.051 $\chi^2/\text{NDF}: 8254.8/61$
 All: -19.061 ± 0.036 $\chi^2/\text{NDF}: 14894.0/119$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.100 ± 0.007 χ^2/NDF : 9335.3/34

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.174 ± 0.007 χ^2/NDF : 8508.0/36

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

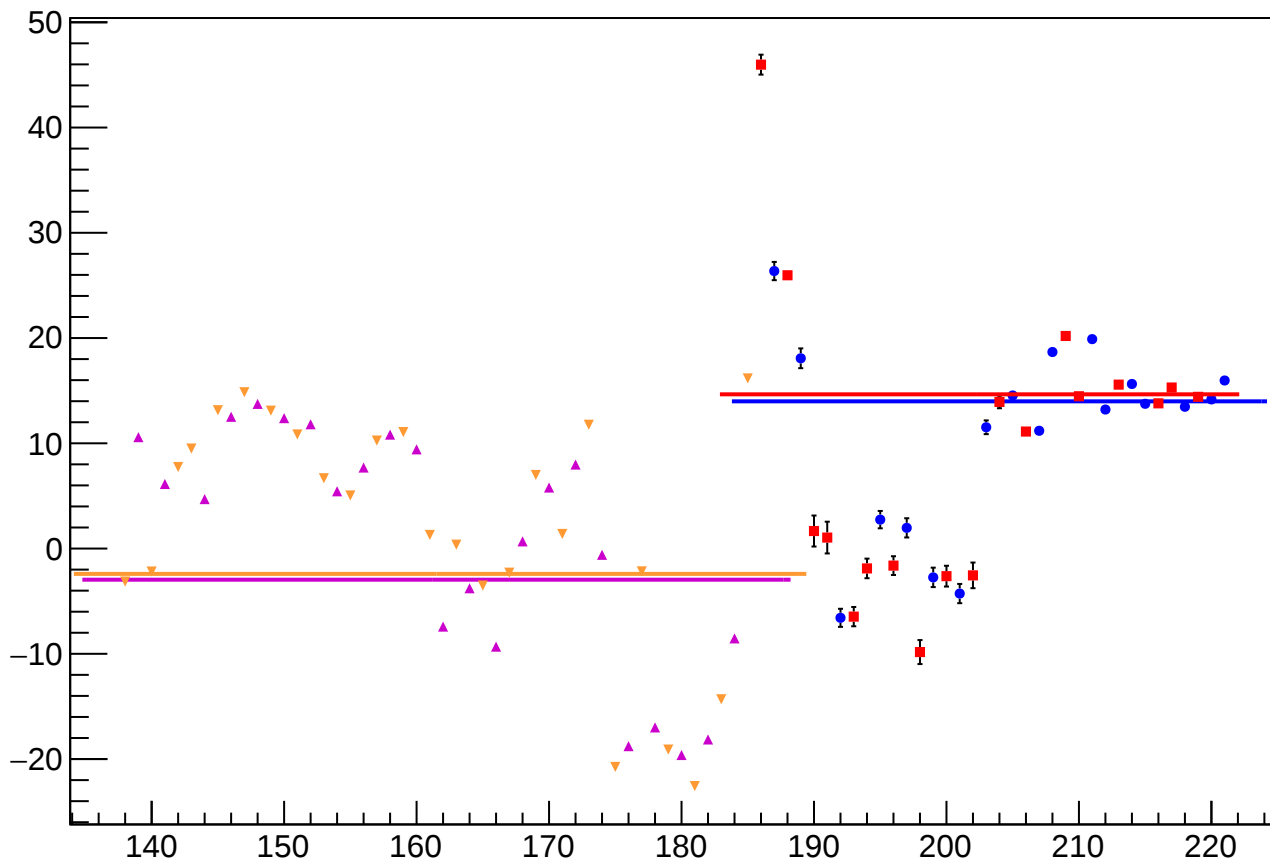
Right: -0.139 ± 0.005 χ^2/NDF : 17904.7/71

In: 0.326 ± 0.002 χ^2/NDF : 15093.4/57

Out: 0.313 ± 0.002 χ^2/NDF : 15852.6/61

All: 0.319 ± 0.002 χ^2/NDF : 30960.5/119

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.986 ± 0.113 χ^2/NDF : 2413.0/17

Left Out: -2.407 ± 0.053 χ^2/NDF : 56368.5/24

Right Out: 14.653 ± 0.125 χ^2/NDF : 4440.2/17

Left In: -2.959 ± 0.055 χ^2/NDF : 45922.6/22

Left: -2.672 ± 0.038 χ^2/NDF : 102343.8/47

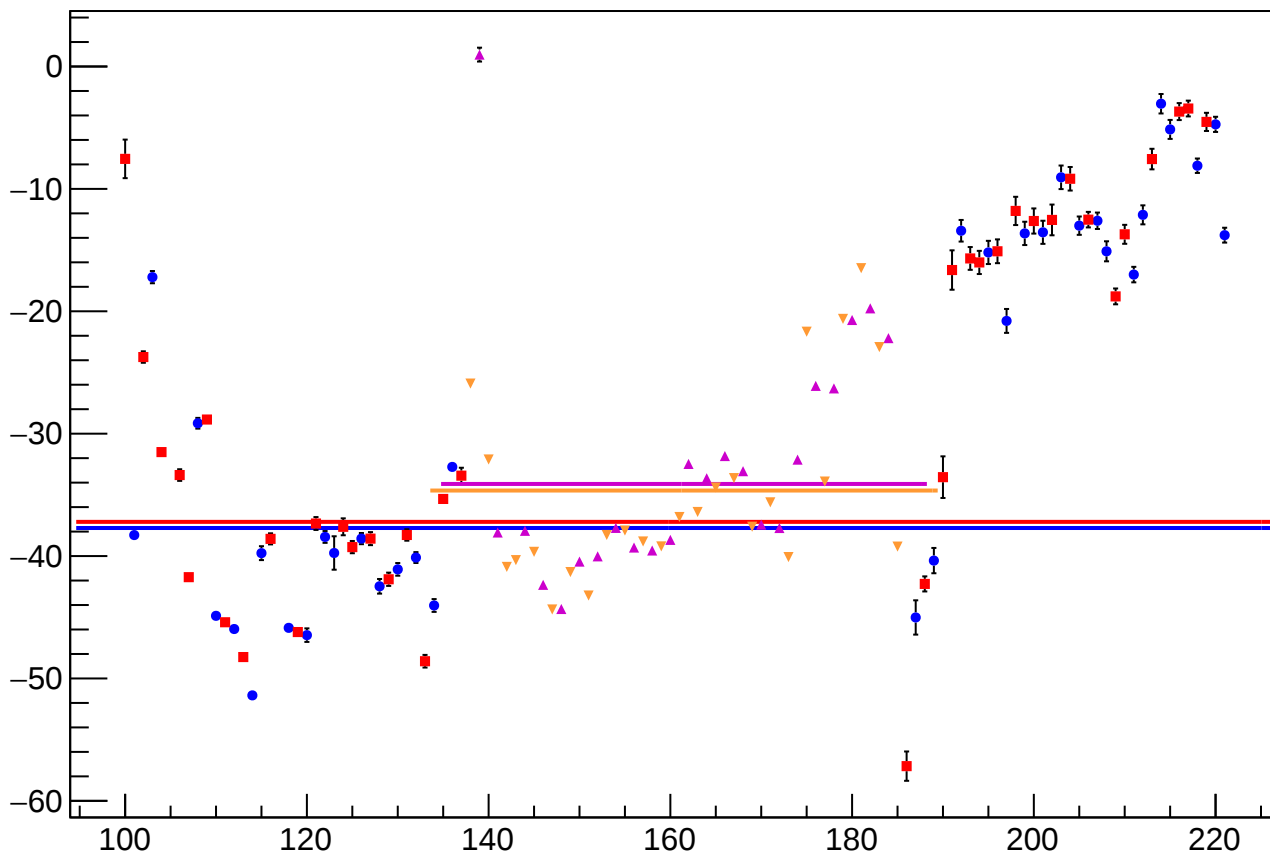
Right: 14.285 ± 0.084 χ^2/NDF : 6868.9/35

In: 0.280 ± 0.049 χ^2/NDF : 66577.2/40

Out: 0.161 ± 0.049 χ^2/NDF : 76539.1/42

All: 0.220 ± 0.035 χ^2/NDF : 143119.3/83

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -37.708 ± 0.072 $\chi^2/\text{NDF}: 29568.8/34$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -37.205 ± 0.068 $\chi^2/\text{NDF}: 28724.1/36$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

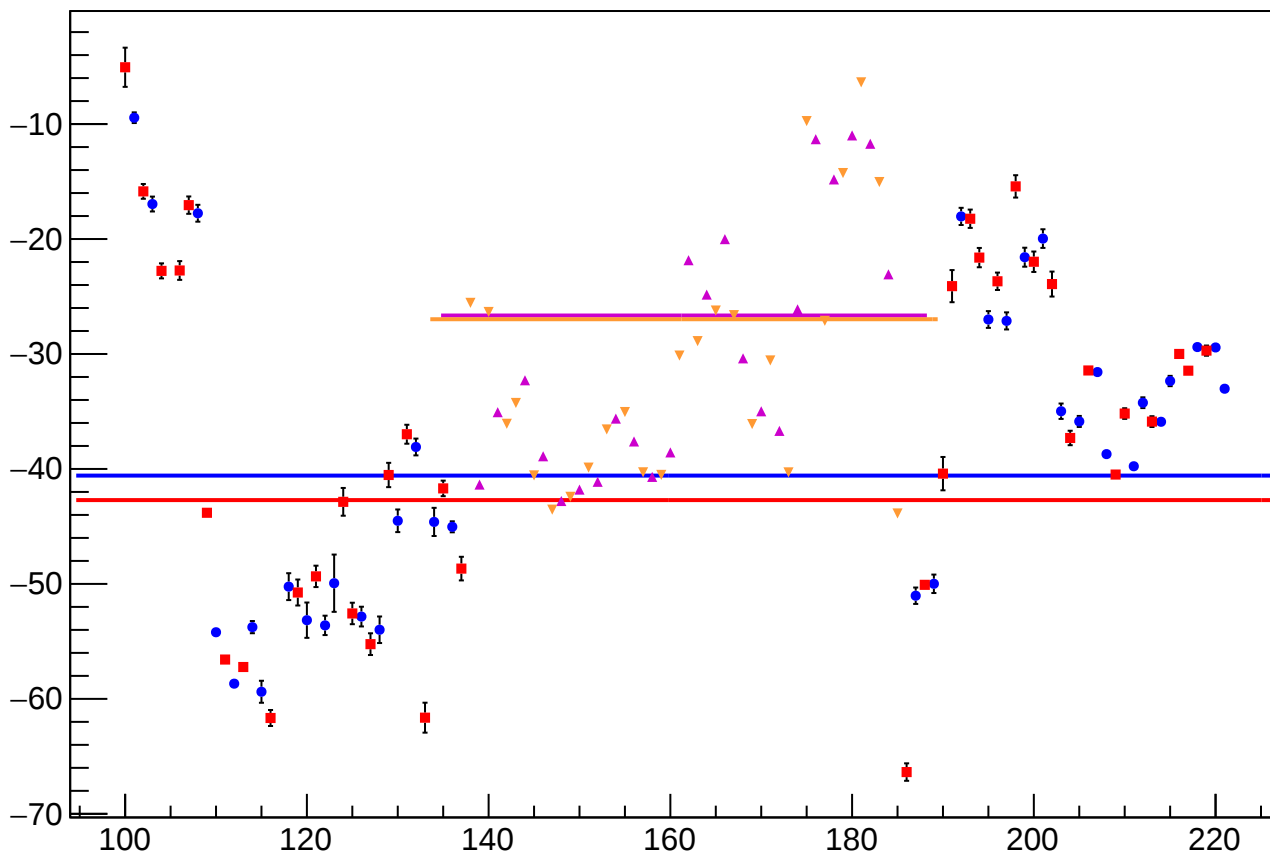
Right: -37.444 ± 0.050 $\chi^2/\text{NDF}: 58318.4/71$

In: -35.086 ± 0.038 $\chi^2/\text{NDF}: 60442.3/57$

Out: -35.341 ± 0.036 $\chi^2/\text{NDF}: 64418.4/61$

All: -35.220 ± 0.026 $\chi^2/\text{NDF}: 124885.1/119$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.578 ± 0.085 $\chi^2/\text{NDF}: 25504.6/34$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -42.709 ± 0.082 $\chi^2/\text{NDF}: 23754.8/36$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

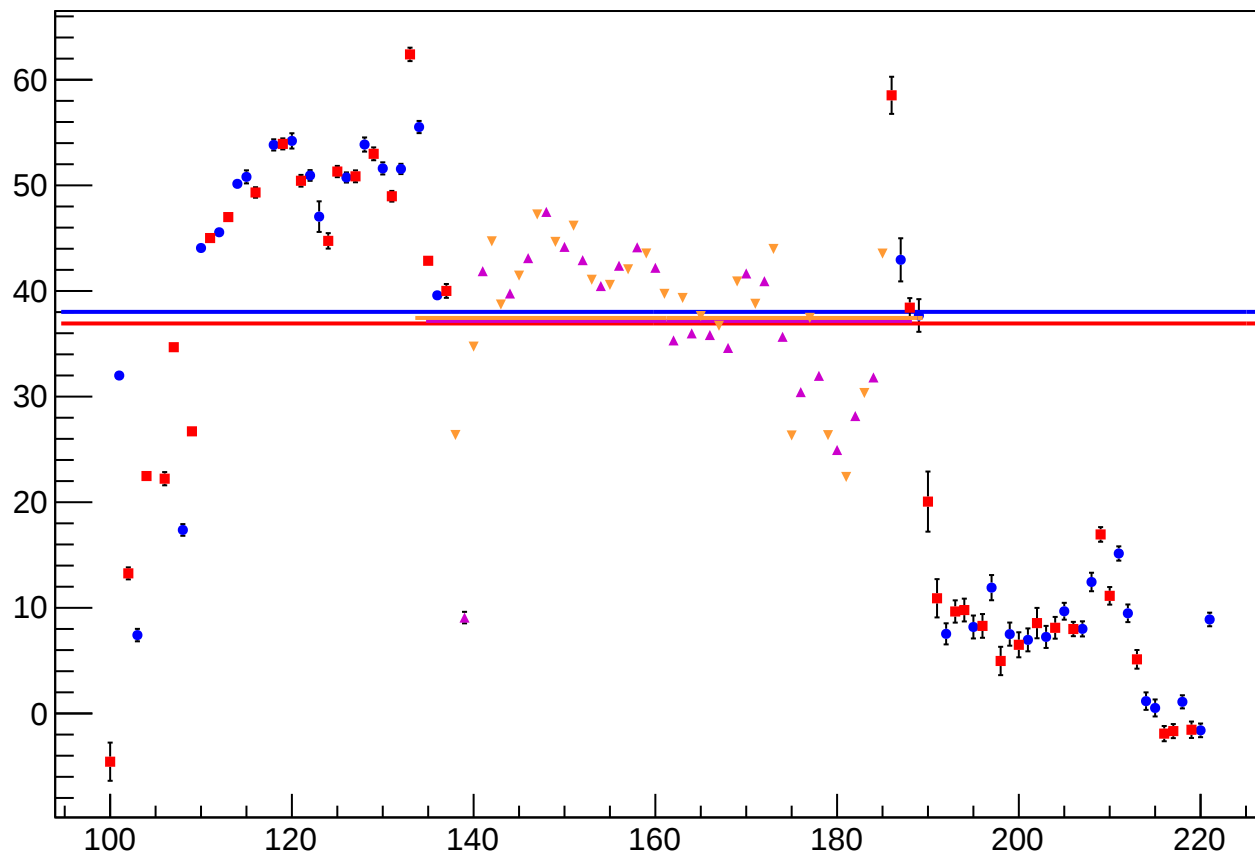
Right: -41.685 ± 0.059 $\chi^2/\text{NDF}: 49586.5/71$

In: -30.761 ± 0.046 $\chi^2/\text{NDF}: 86564.3/57$

Out: -31.663 ± 0.045 $\chi^2/\text{NDF}: 99168.6/61$

All: -31.228 ± 0.032 $\chi^2/\text{NDF}: 185930.4/119$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.022 $\pm$ 0.080 χ^2 /NDF: 39111.2/34

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 36.924 $\pm$ 0.076 χ^2 /NDF: 37934.6/36

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

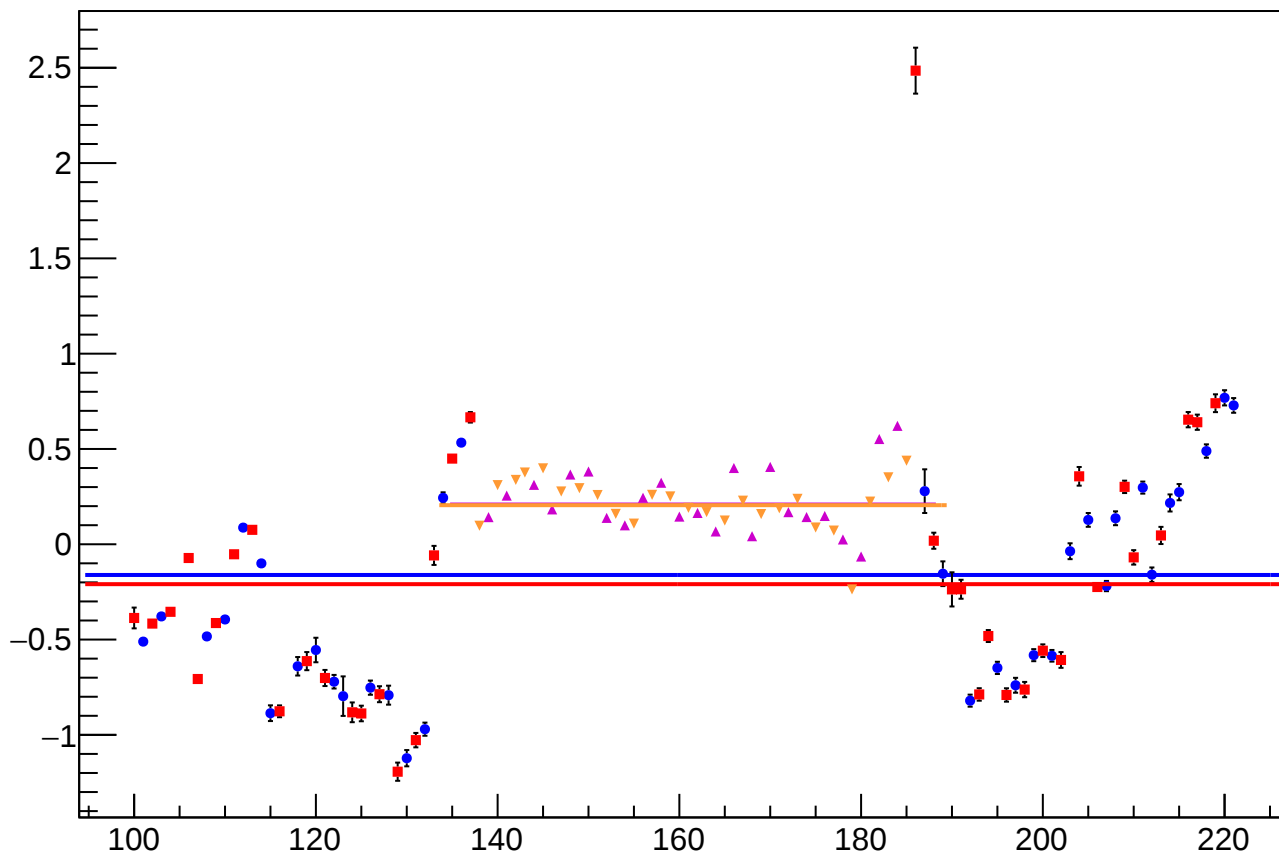
Right: 37.442 $\pm$ 0.055 χ^2 /NDF: 77145.7/71

In: 37.404 $\pm$ 0.042 χ^2 /NDF:56430.7/57

Out: 37.300 $\pm$ 0.040 χ^2 /NDF:59539.8/61

All: 37.350 $\pm$ 0.029 χ^2 /NDF: 115973.7/119

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.161 ± 0.004 χ^2/NDF : 10578.2/34

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.209 ± 0.004 χ^2/NDF : 10760.3/36

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

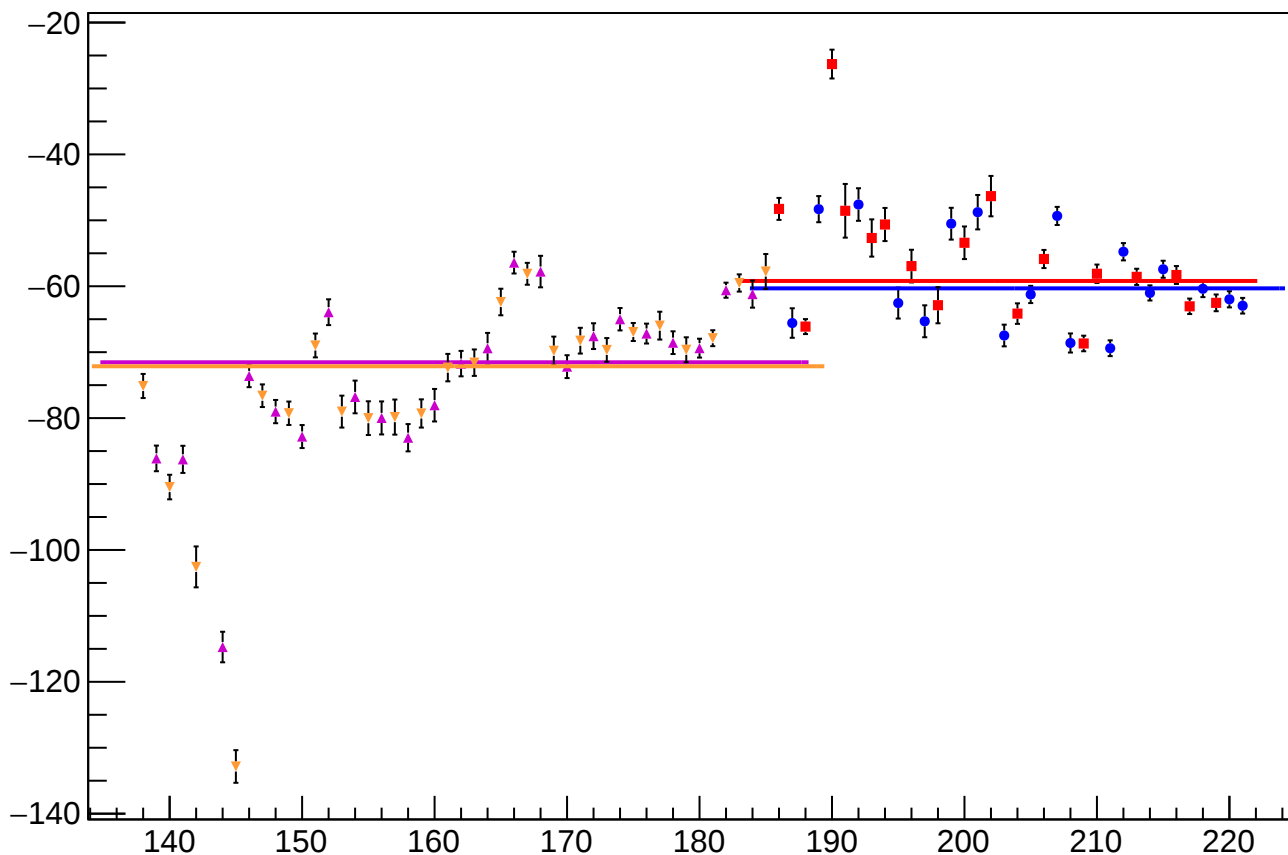
Right: -0.187 ± 0.003 χ^2/NDF : 21408.8/71

In: 0.127 ± 0.002 χ^2/NDF : 21628.5/57

Out: 0.107 ± 0.002 χ^2/NDF : 23200.2/61

All: 0.117 ± 0.001 χ^2/NDF : 44883.8/119

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

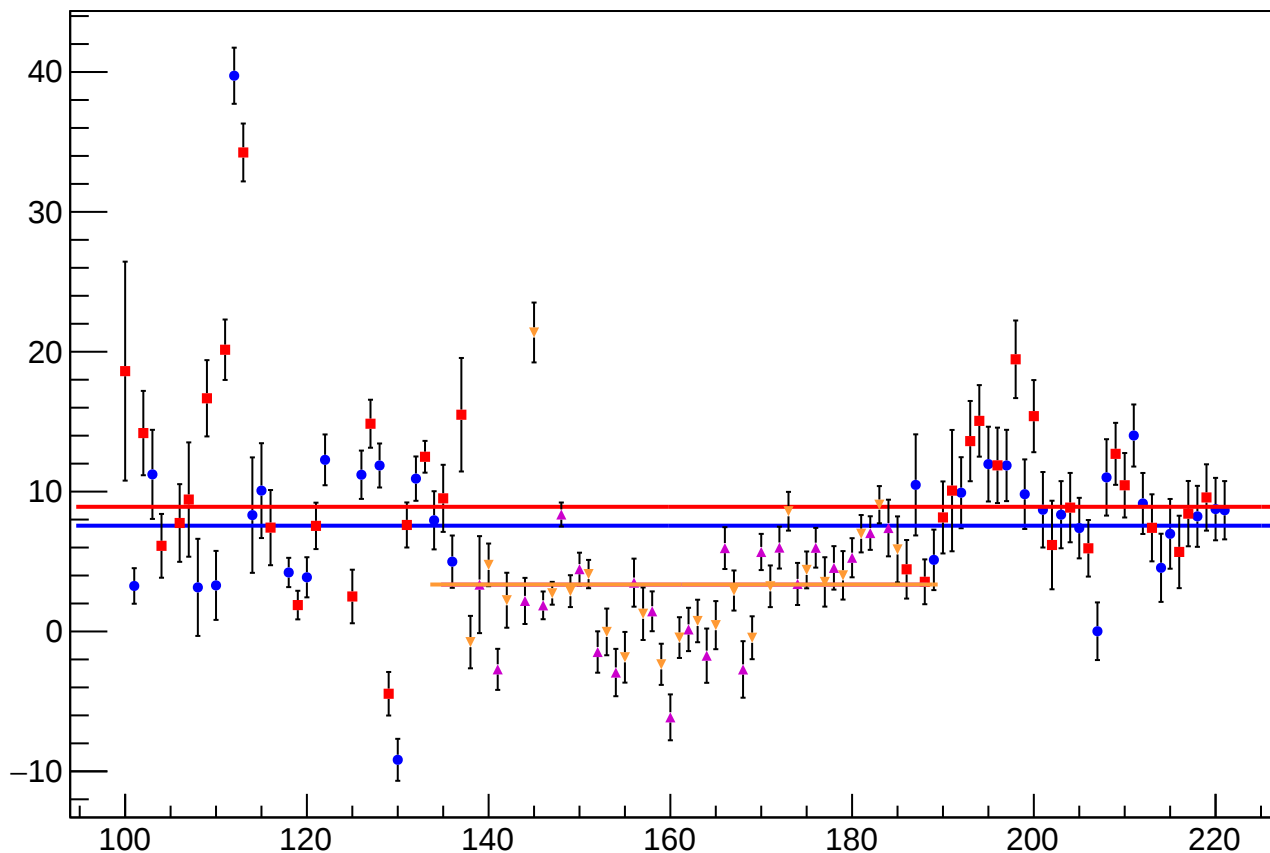


Right In: -60.320 $\pm$ 0.356 χ^2 /NDF: 313.7/17
 Left Out: -72.138 $\pm$ 0.383 χ^2 /NDF:1121.3/23
 Right Out: -59.198 $\pm$ 0.378 χ^2 /NDF: 455.5/17
 Left In: -71.534 $\pm$ 0.382 χ^2 /NDF:851.4/22

Left: -71.835 $\pm$ 0.270 χ^2 /NDF: 1974.0/46
 Right: -59.793 $\pm$ 0.259 χ^2 /NDF: 773.9/35
 In: -65.539 $\pm$ 0.260 χ^2 /NDF:1626.6/40
 Out: -65.592 $\pm$ 0.269 χ^2 /NDF:2154.8/41

All: -65.565 $\pm$ 0.187 χ^2 /NDF: 3781.4/82

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.563 ± 0.346 χ^2/NDF : 477.2/33

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 8.913 ± 0.352 χ^2/NDF : 404.4/35

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

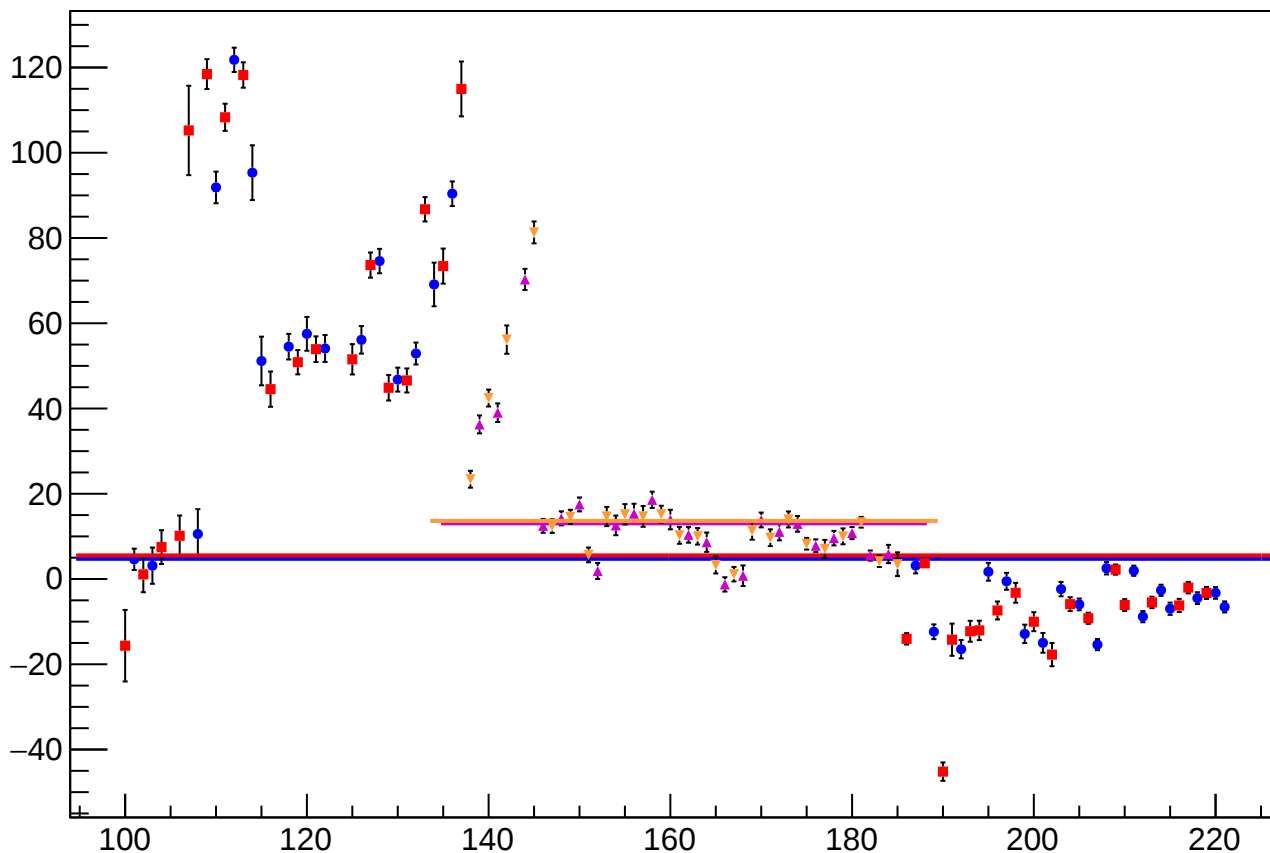
Right: 8.227 ± 0.247 χ^2/NDF : 889.0/69

In: 5.143 ± 0.226 χ^2/NDF : 725.7/56

Out: 5.647 ± 0.226 χ^2/NDF : 718.5/59

All: 5.395 ± 0.160 χ^2/NDF : 1446.7/116

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.738 ± 0.332 χ^2/NDF : 6679.1/33

Left Out: 13.632 ± 0.382 χ^2/NDF : 1300.0/23

Right Out: 5.546 ± 0.338 χ^2/NDF : 8205.2/35

Left In: 13.058 ± 0.380 χ^2/NDF : 1024.7/22

Left: 13.344 ± 0.269 χ^2/NDF : 2325.9/46

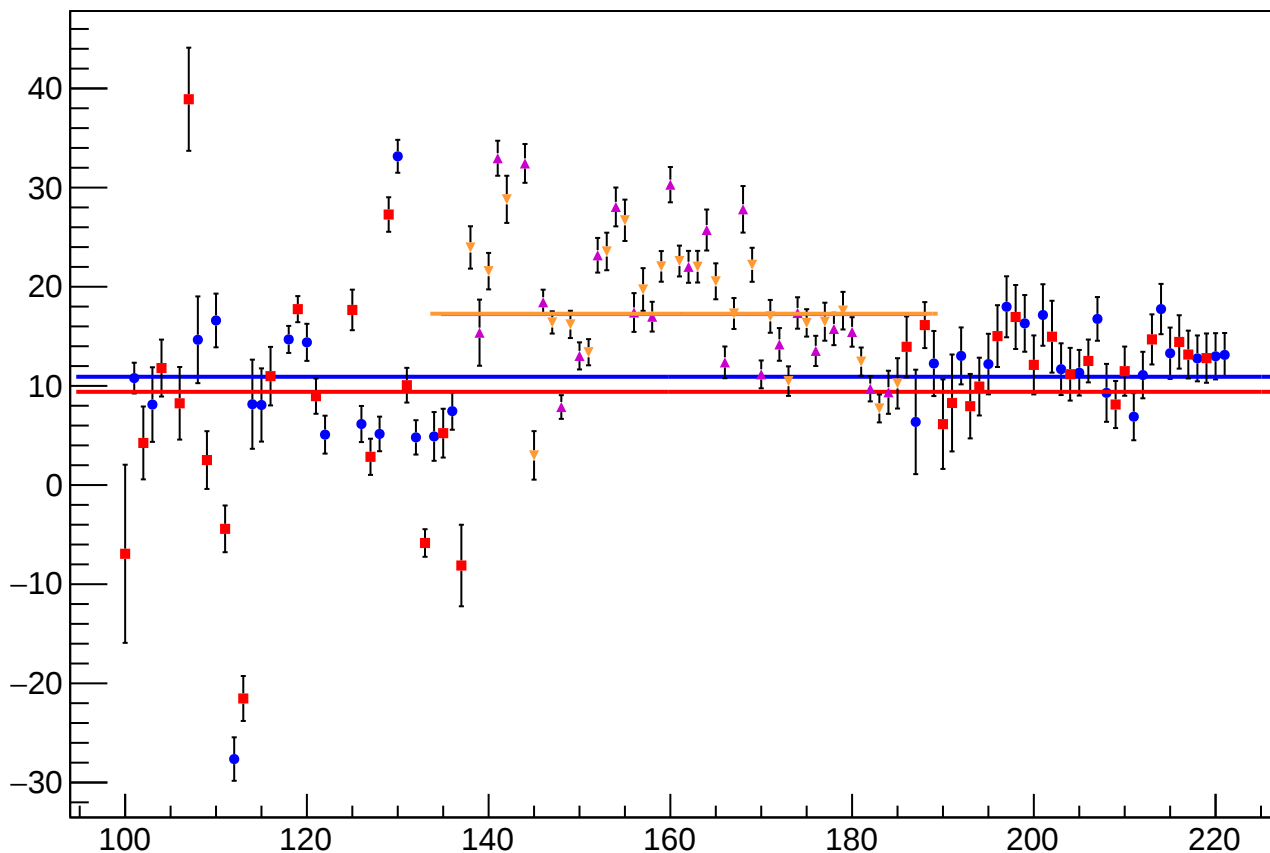
Right: 5.134 ± 0.237 χ^2/NDF : 14887.1/69

In: 8.337 ± 0.250 χ^2/NDF : 7976.1/56

Out: 9.100 ± 0.253 χ^2/NDF : 9756.7/59

All: 8.713 ± 0.178 χ^2/NDF : 17737.4/116

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.921 ± 0.393 $\chi^2/\text{NDF}: 590.4/33$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 9.403 ± 0.406 $\chi^2/\text{NDF}: 619.8/35$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

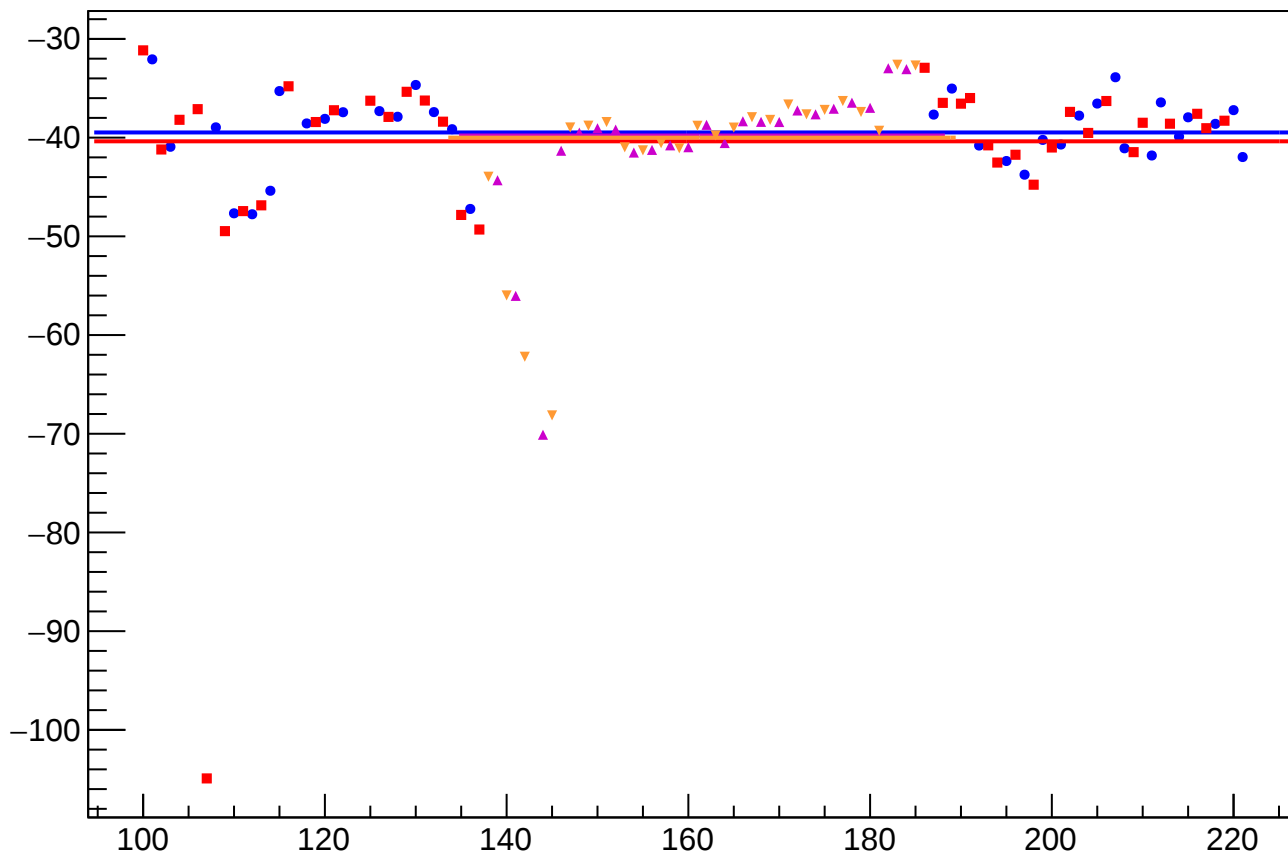
Right: 10.186 ± 0.282 $\chi^2/\text{NDF}: 1217.4/69$

In: 14.545 ± 0.257 $\chi^2/\text{NDF}: 1179.4/56$

Out: 14.066 ± 0.259 $\chi^2/\text{NDF}: 1086.5/59$

All: 14.308 ± 0.183 $\chi^2/\text{NDF}: 2267.6/116$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.475 ± 0.020 χ^2/NDF : 38545.9/33

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.374 ± 0.020 χ^2/NDF : 107993.6/35

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

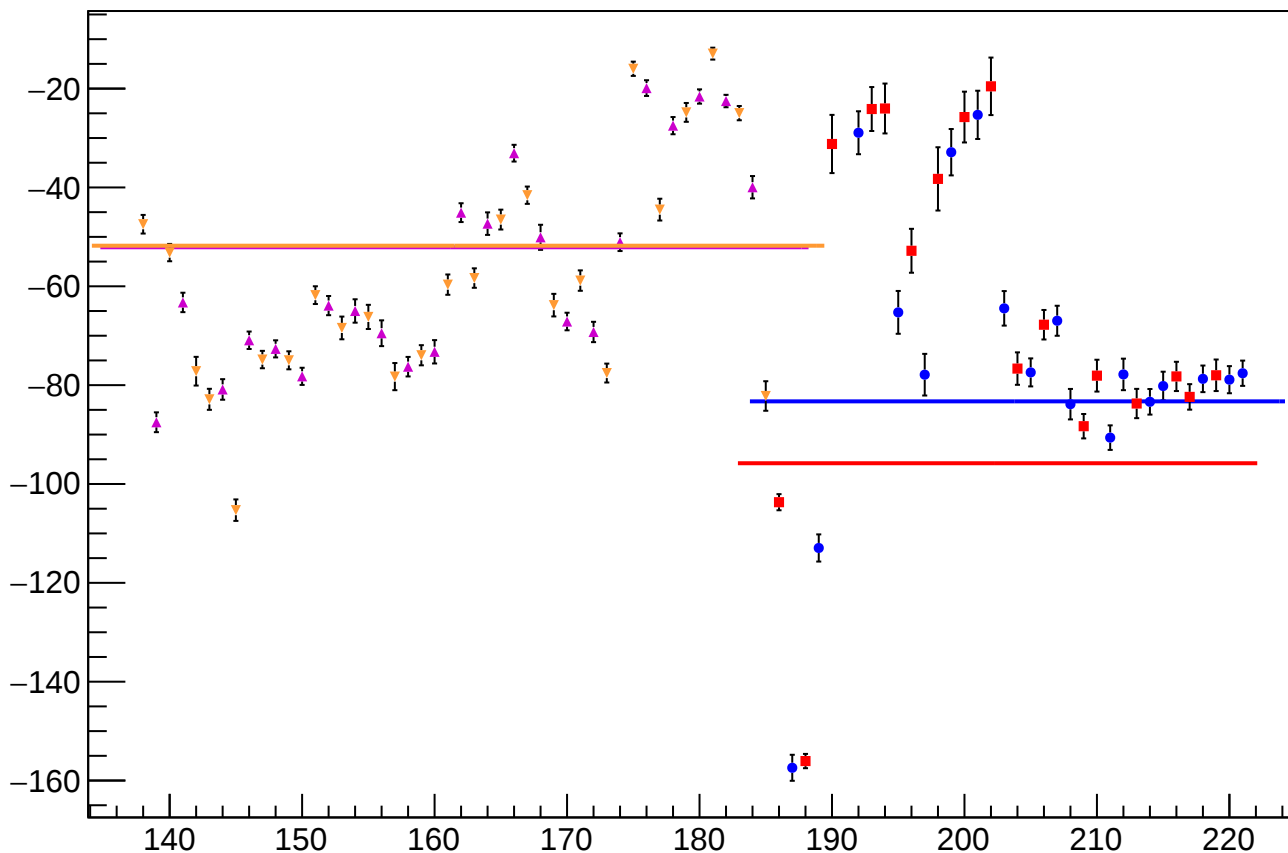
Right: -39.920 ± 0.014 χ^2/NDF : 147560.4/69

In: -39.666 ± 0.012 χ^2/NDF : 183191.1/56

Out: -40.143 ± 0.012 χ^2/NDF : 280474.0/59

All: -39.902 ± 0.009 χ^2/NDF : 464414.8/116

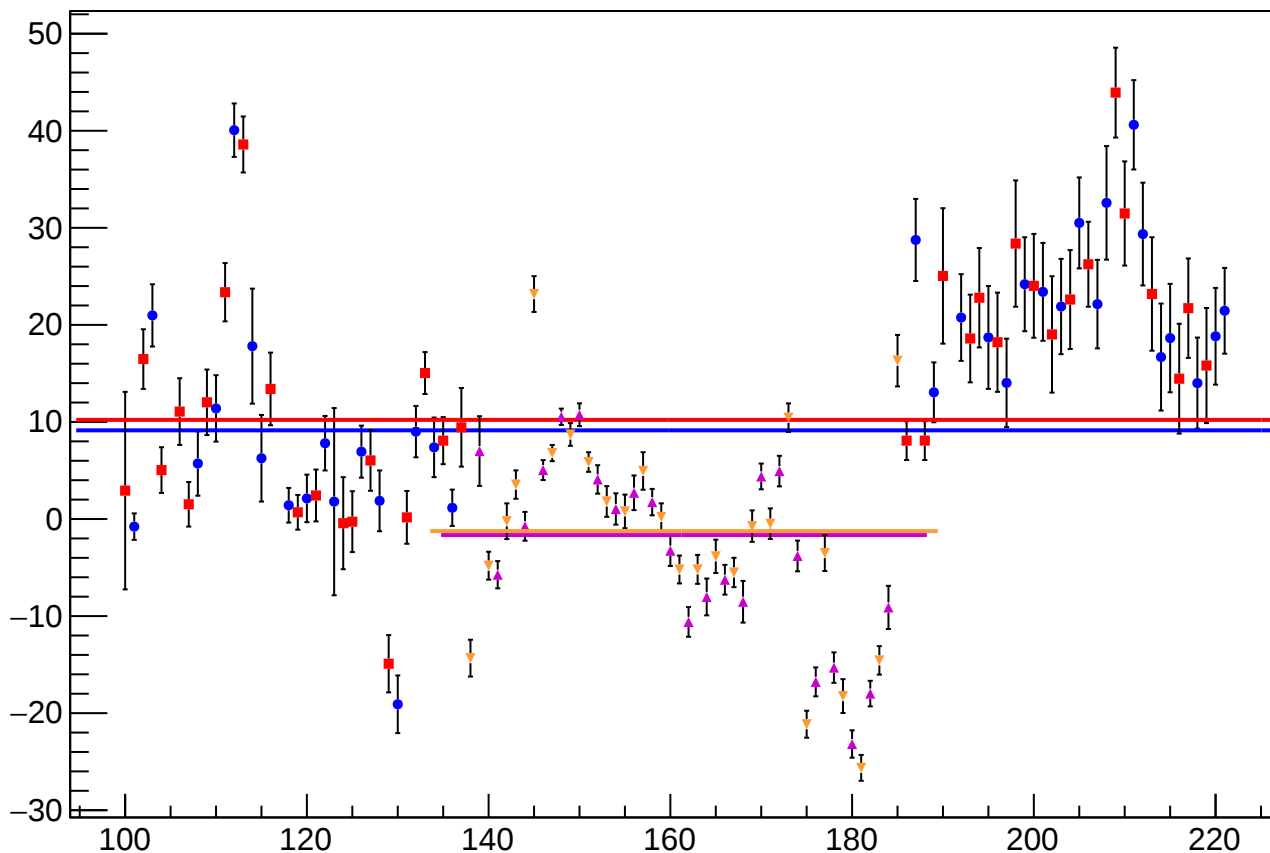
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -83.281 ± 0.726 $\chi^2/\text{NDF}: 1427.2/17$
 Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$
 Right Out: -95.801 ± 0.697 $\chi^2/\text{NDF}: 3146.8/16$
 Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$
 Right: -89.790 ± 0.503 $\chi^2/\text{NDF}: 4728.8/34$
 In: -59.055 ± 0.343 $\chi^2/\text{NDF}: 6142.0/40$
 Out: -61.974 ± 0.335 $\chi^2/\text{NDF}: 10374.2/41$
 All: -60.545 ± 0.240 $\chi^2/\text{NDF}: 16553.2/82$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected

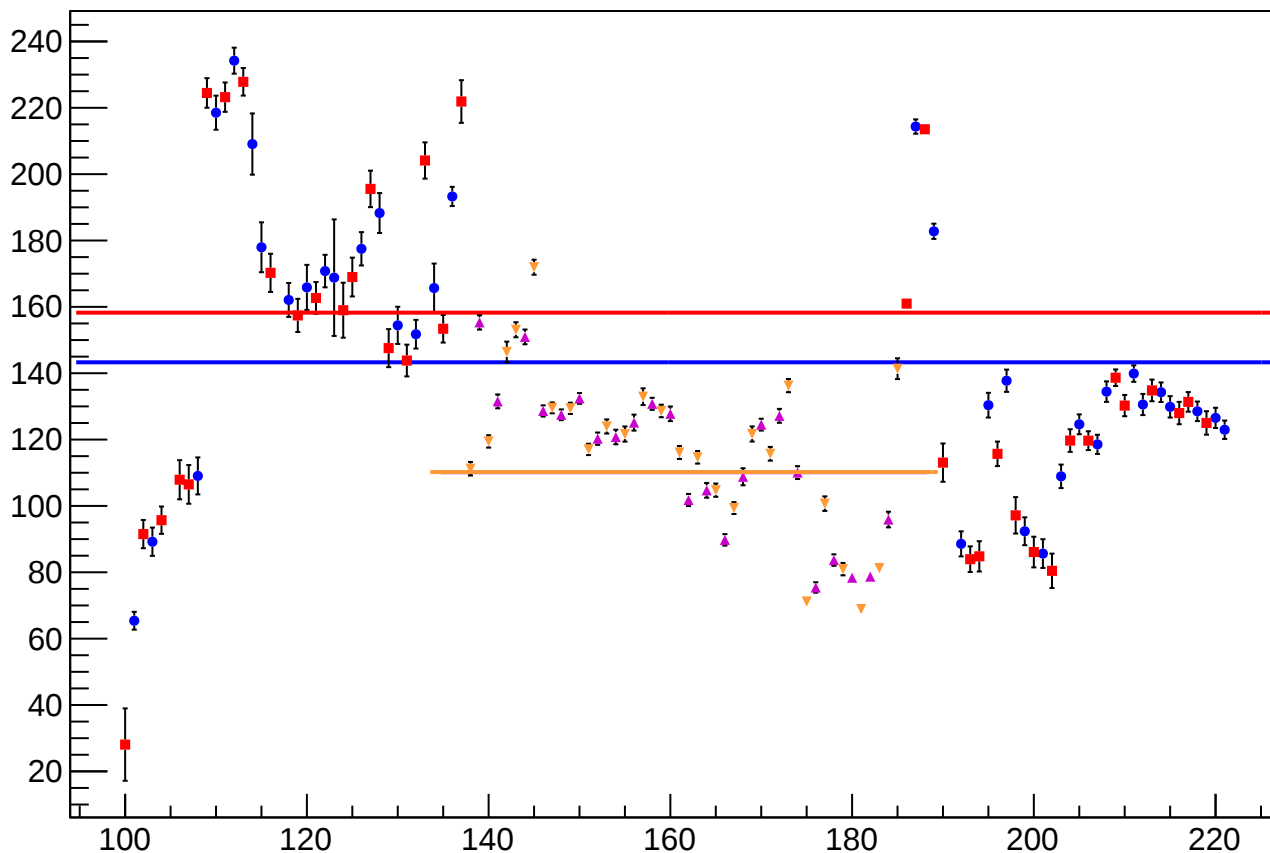


Right In: 9.136 ± 0.546 $\chi^2/\text{NDF}: 522.0/34$
 Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$
 Right Out: 10.215 ± 0.543 $\chi^2/\text{NDF}: 422.3/35$
 Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$
 Right: 9.678 ± 0.385 $\chi^2/\text{NDF}: 946.3/70$
 In: 0.854 ± 0.263 $\chi^2/\text{NDF}: 1914.0/57$
 Out: 1.320 ± 0.257 $\chi^2/\text{NDF}: 2090.5/60$

All: 1.093 ± 0.184 $\chi^2/\text{NDF}: 4006.1/118$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 143.293 $\pm$ 0.604 χ^2 /NDF: 4636.5/34

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 158.252 $\pm$ 0.557 χ^2 /NDF: 6163.6/35

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

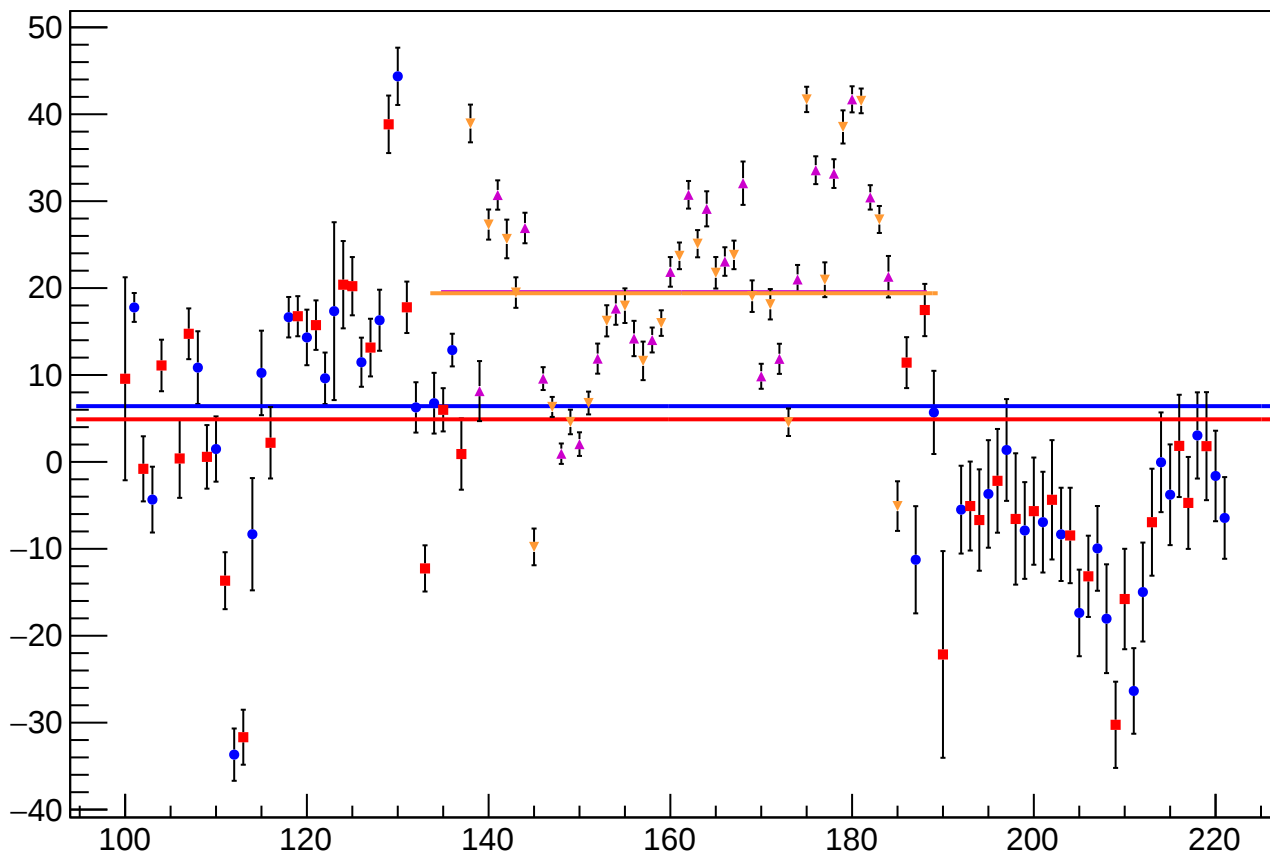
Right: 151.385 $\pm$ 0.409 χ^2 /NDF: 11131.7/70

In: 119.771 $\pm$ 0.325 χ^2 /NDF:10473.4/57

Out: 125.598 $\pm$ 0.315 χ^2 /NDF:15821.1/60

All: 122.778 $\pm$ 0.226 χ^2 /NDF: 26460.1/118

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected

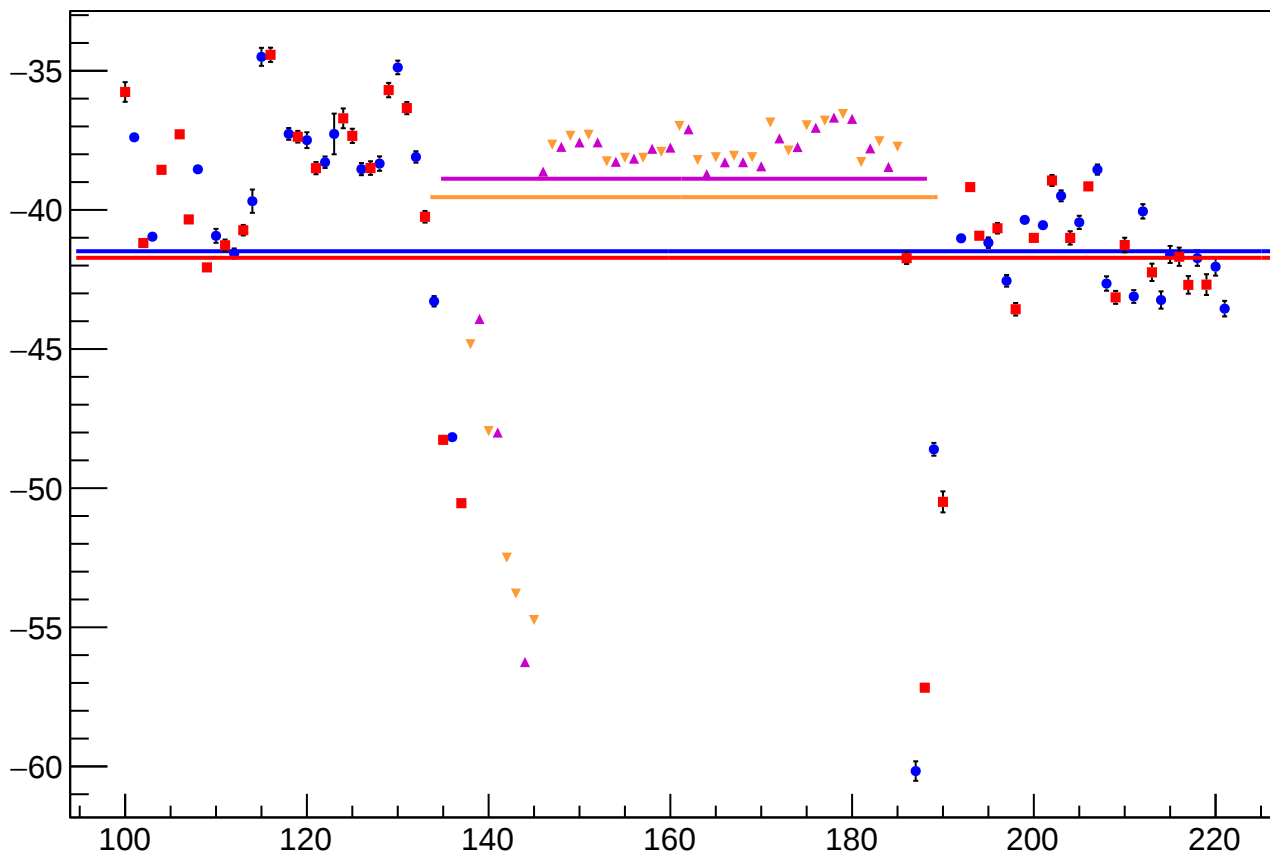


Right In: 6.416 $\pm$ 0.626 χ^2/NDF : 583.3/34
 Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24
 Right Out: 4.900 $\pm$ 0.639 χ^2/NDF : 566.6/35
 Left In: 19.530 $\pm$ 0.342 χ^2/NDF :1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2/NDF : 2634.8/47
 Right: 5.674 $\pm$ 0.447 χ^2/NDF : 1152.8/70
 In: 16.511 $\pm$ 0.300 χ^2/NDF :2102.3/57
 Out: 16.286 $\pm$ 0.297 χ^2/NDF :2423.9/60

All: 16.397 $\pm$ 0.211 χ^2/NDF : 4526.4/118

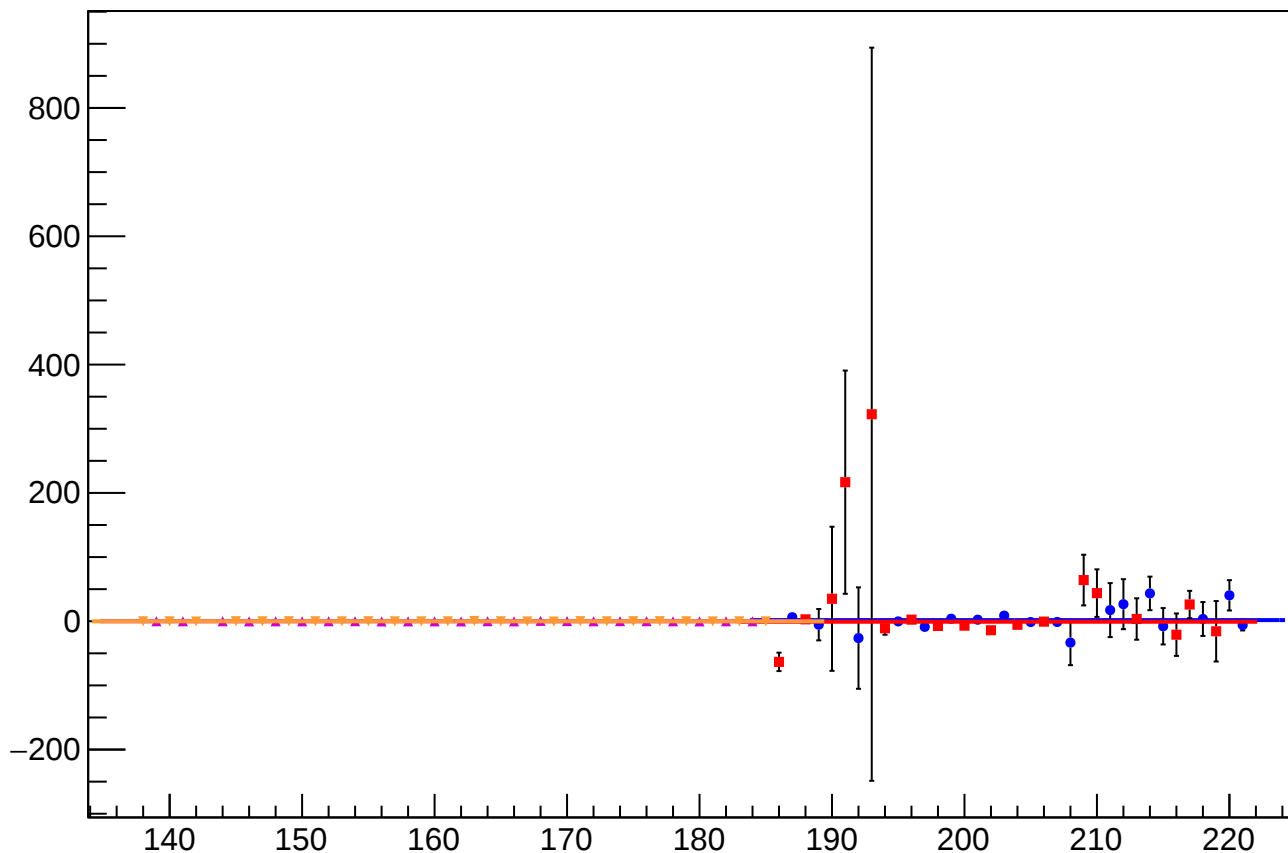
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.485 ± 0.031 χ^2/NDF : 17015.8/34
 Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24
 Right Out: -41.721 ± 0.031 χ^2/NDF : 23130.1/35
 Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47
 Right: -41.603 ± 0.022 χ^2/NDF : 40175.1/70
 In: -39.421 ± 0.014 χ^2/NDF : 76025.8/57
 Out: -39.987 ± 0.014 χ^2/NDF : 119072.0/60
 All: -39.706 ± 0.010 χ^2/NDF : 195905.6/118

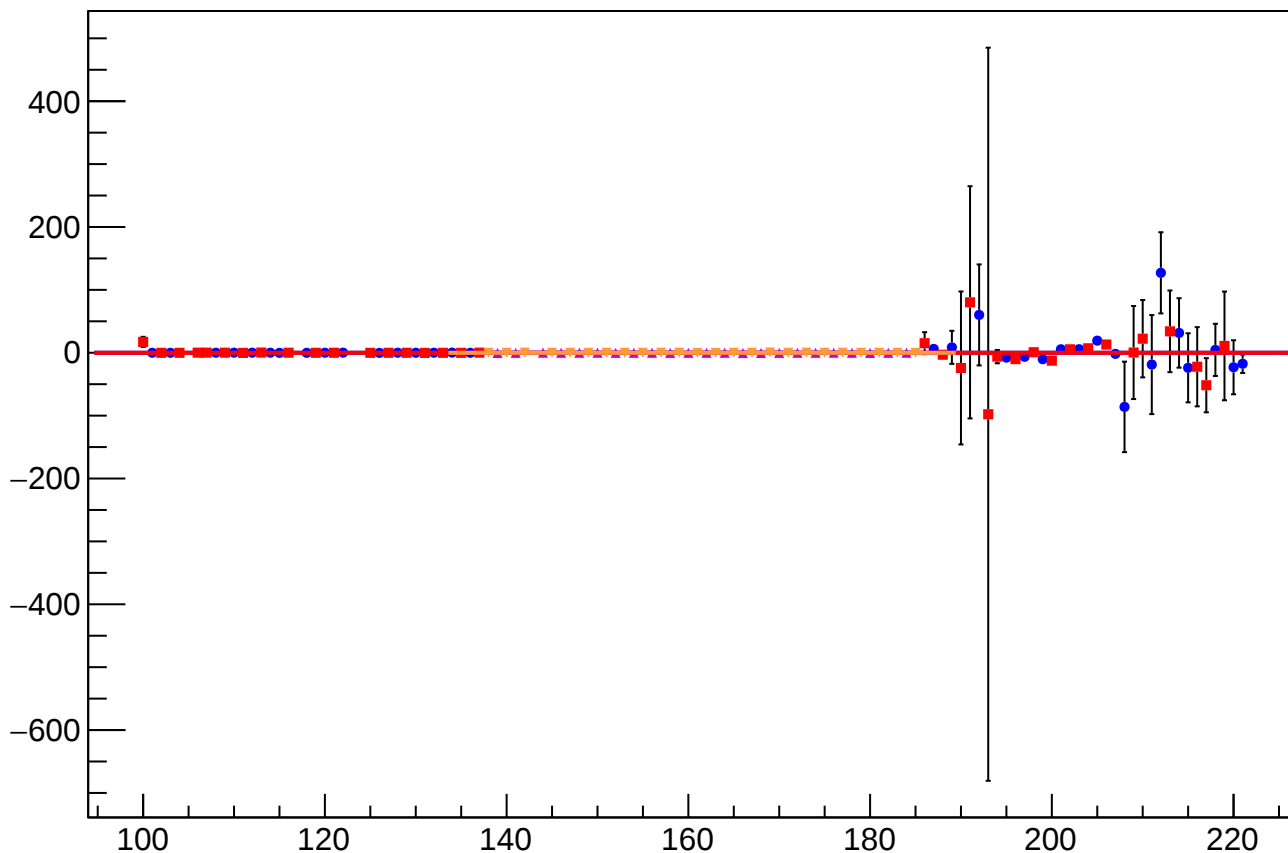
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.779 ± 1.498 $\chi^2/\text{NDF}: 19.0/17$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.768 ± 1.414 $\chi^2/\text{NDF}: 38.8/17$
 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: 0.432 ± 1.028 $\chi^2/\text{NDF}: 59.2/35$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 53.7/40$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 78.7/41$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 136.5/82$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 39.5/33

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.1/35

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

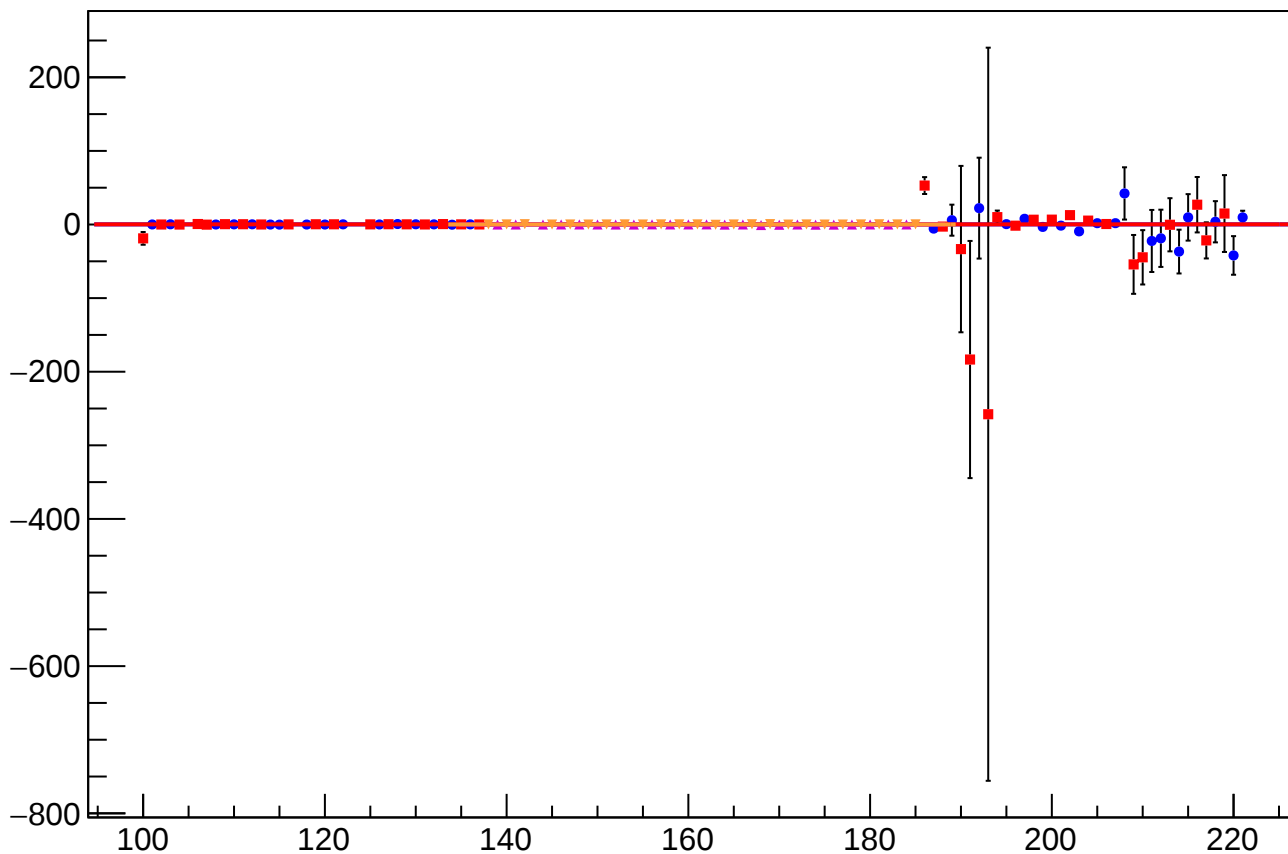
Right: -0.025 ± 0.020 χ^2/NDF : 84.0/69

In: -0.038 ± 0.015 χ^2/NDF : 73.5/56

Out: -0.073 ± 0.015 χ^2/NDF : 69.7/59

All: -0.056 ± 0.011 χ^2/NDF : 145.9/116

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 34.4/33

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 61.7/35

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

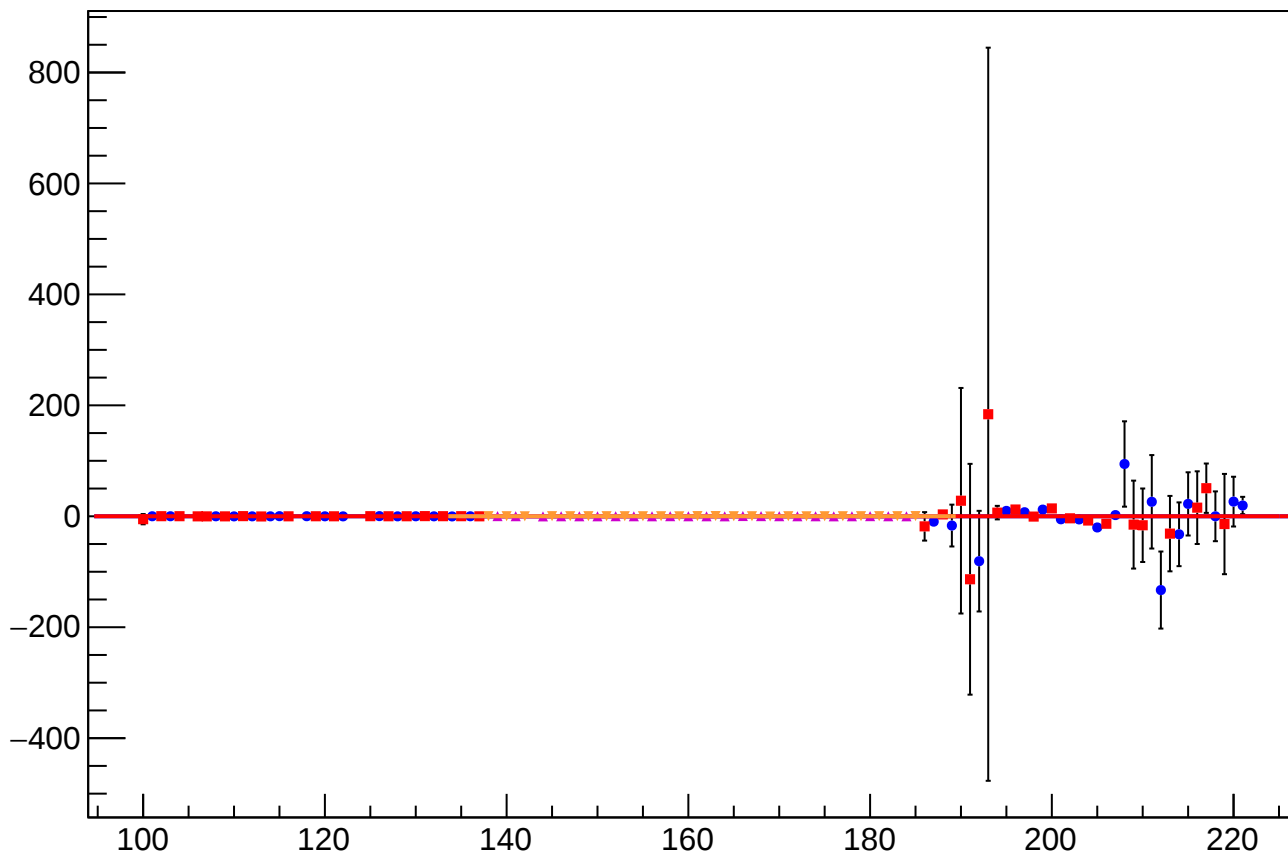
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 96.8/69

In: 0.043 $\pm$ 0.020 χ^2 /NDF:77.1/56

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:107.1/59

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 188.5/116

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 41.1/33$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 36.3/35$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

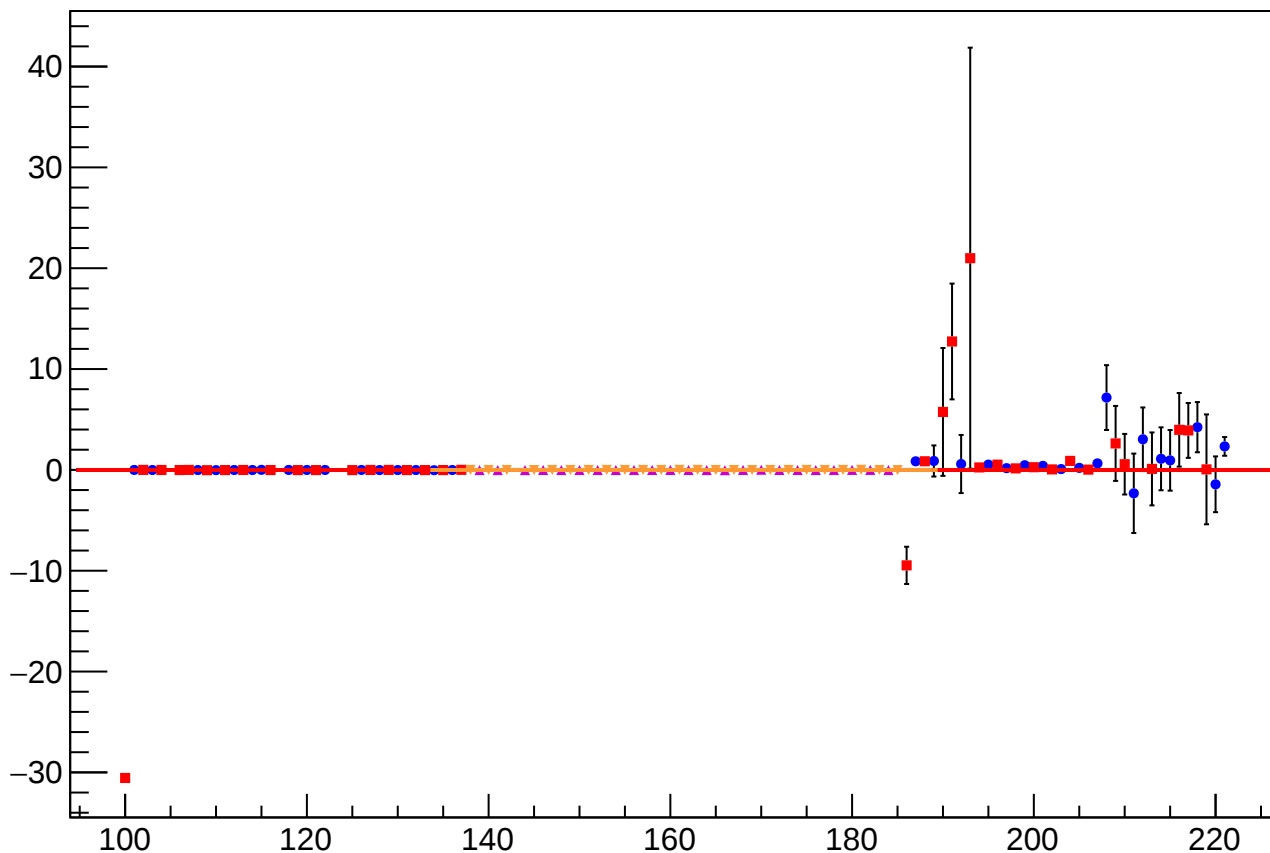
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 79.2/69$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 76.3/56$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 67.2/59$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 147.0/116$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 57.7/33

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.1/35

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

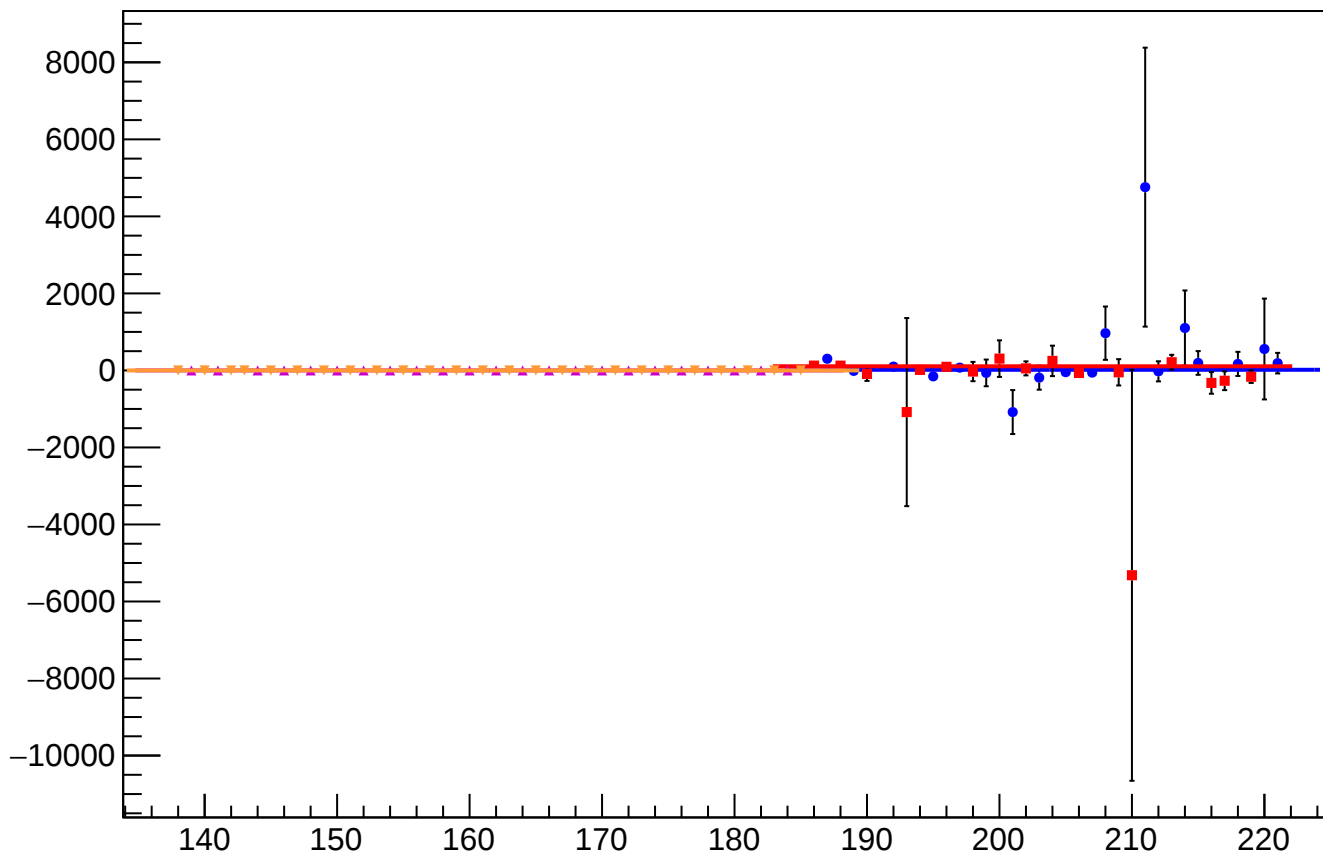
Right: -0.012 ± 0.001 χ^2/NDF : 12015.8/69

In: -0.009 ± 0.001 χ^2/NDF : 100.6/56

Out: -0.009 ± 0.001 χ^2/NDF : 11992.0/59

All: -0.009 ± 0.001 χ^2/NDF : 12092.9/116

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 16.678+/-25.598 χ^2/NDF : 26.4/17

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 107.475+/-15.970 χ^2/NDF : 16.5/16

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

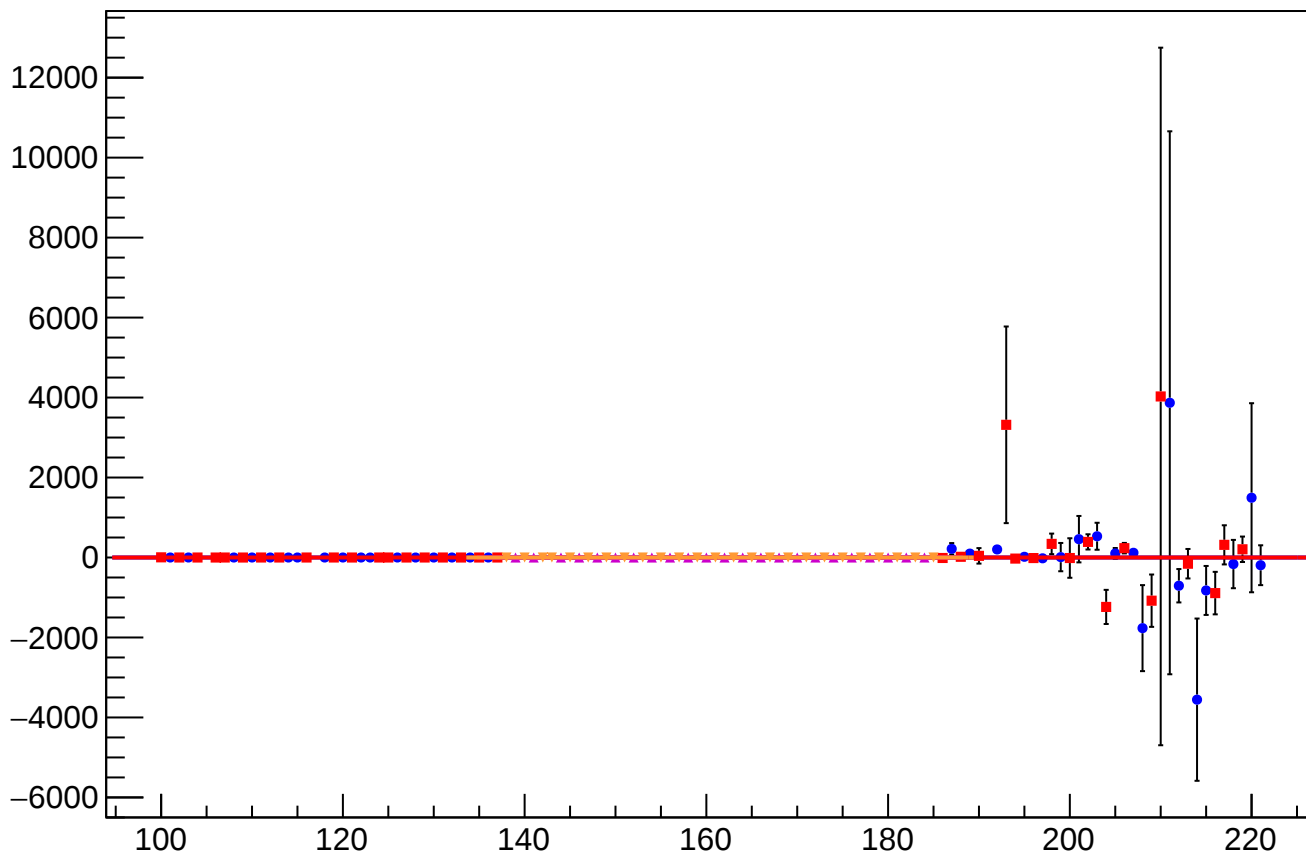
Right: 82.036+/-13.549 χ^2/NDF : 51.9/34

In: 0.002+/-0.028 χ^2/NDF :55.8/40

Out: 0.018+/-0.027 χ^2/NDF :92.7/41

All: 0.010+/-0.019 χ^2/NDF : 148.7/82

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 50.4/34$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 45.0/35$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

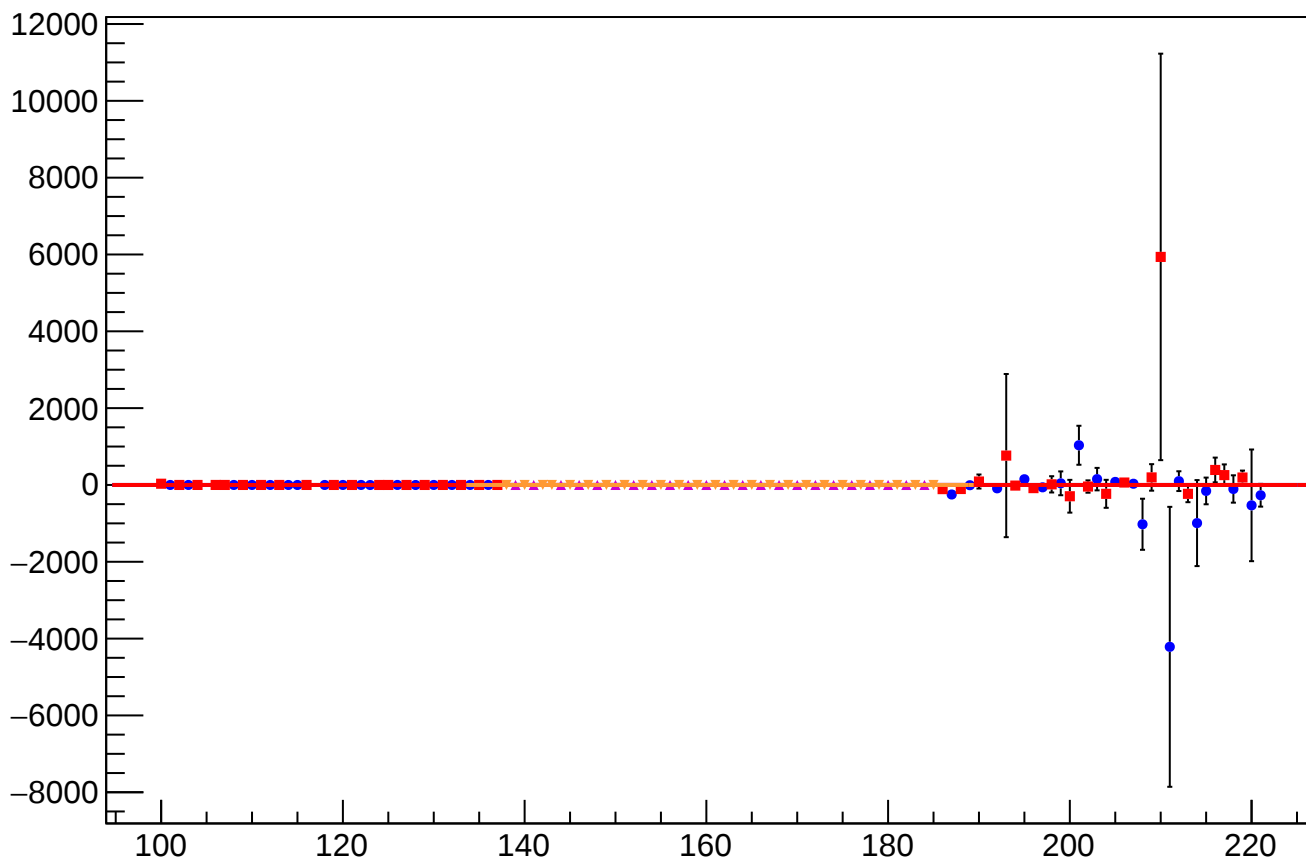
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 98.8/70$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.7/57$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 71.5/60$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 172.5/118$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 52.0/34$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 85.3/35$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

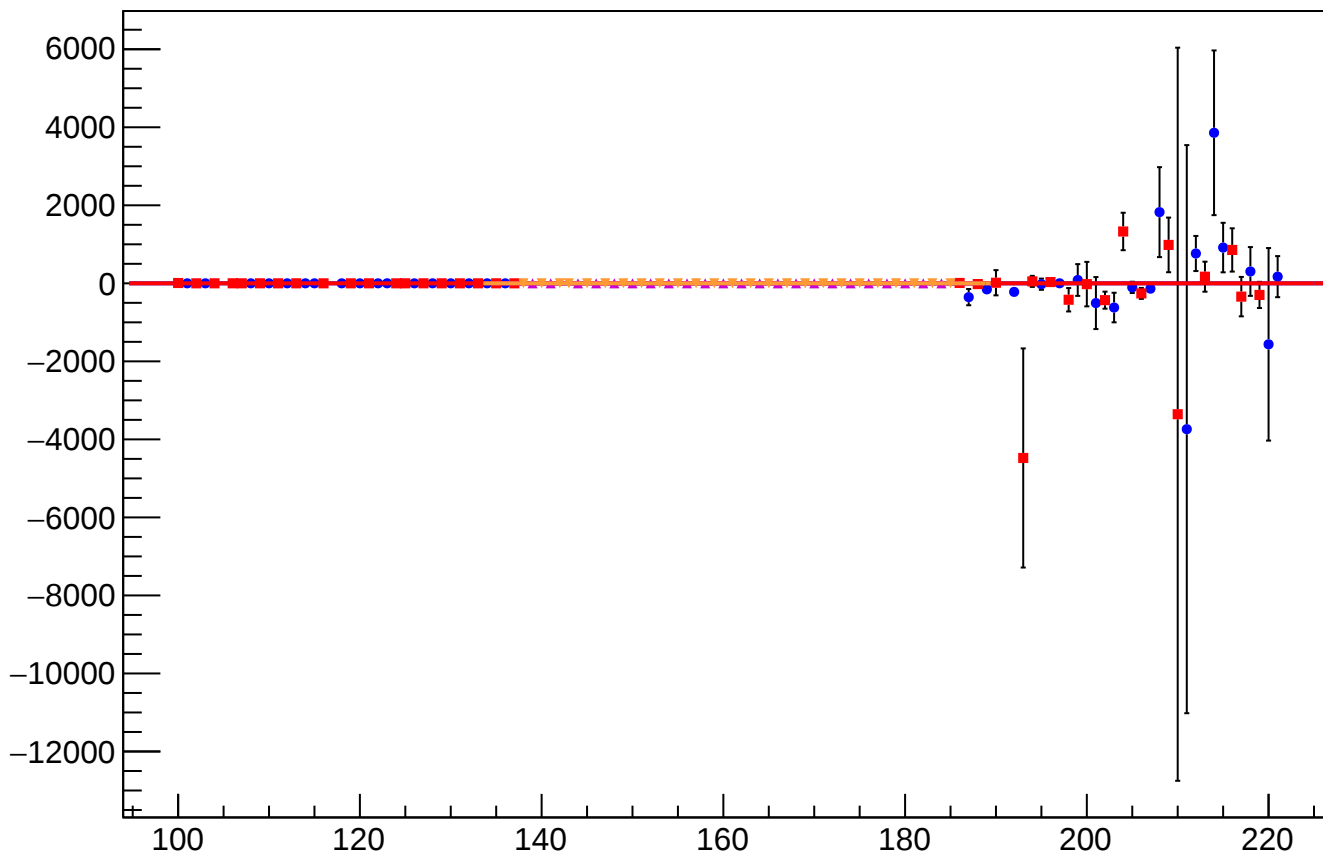
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 137.4/70$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 82.5/57$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 118.1/60$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 200.7/118$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.9/34

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 42.6/35

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

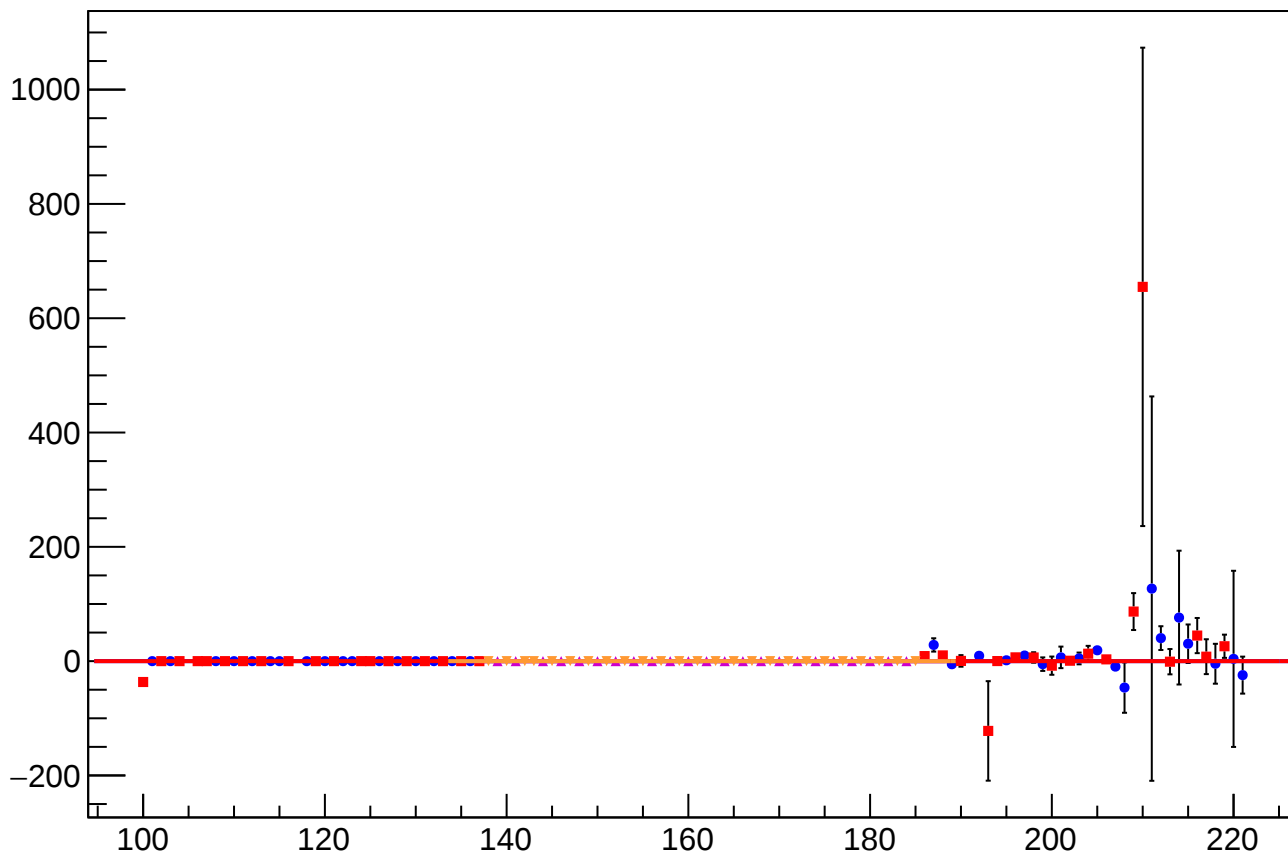
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 96.5/70

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.8/57

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:69.7/60

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 173.1/118

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.8/34

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10487.8/35

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

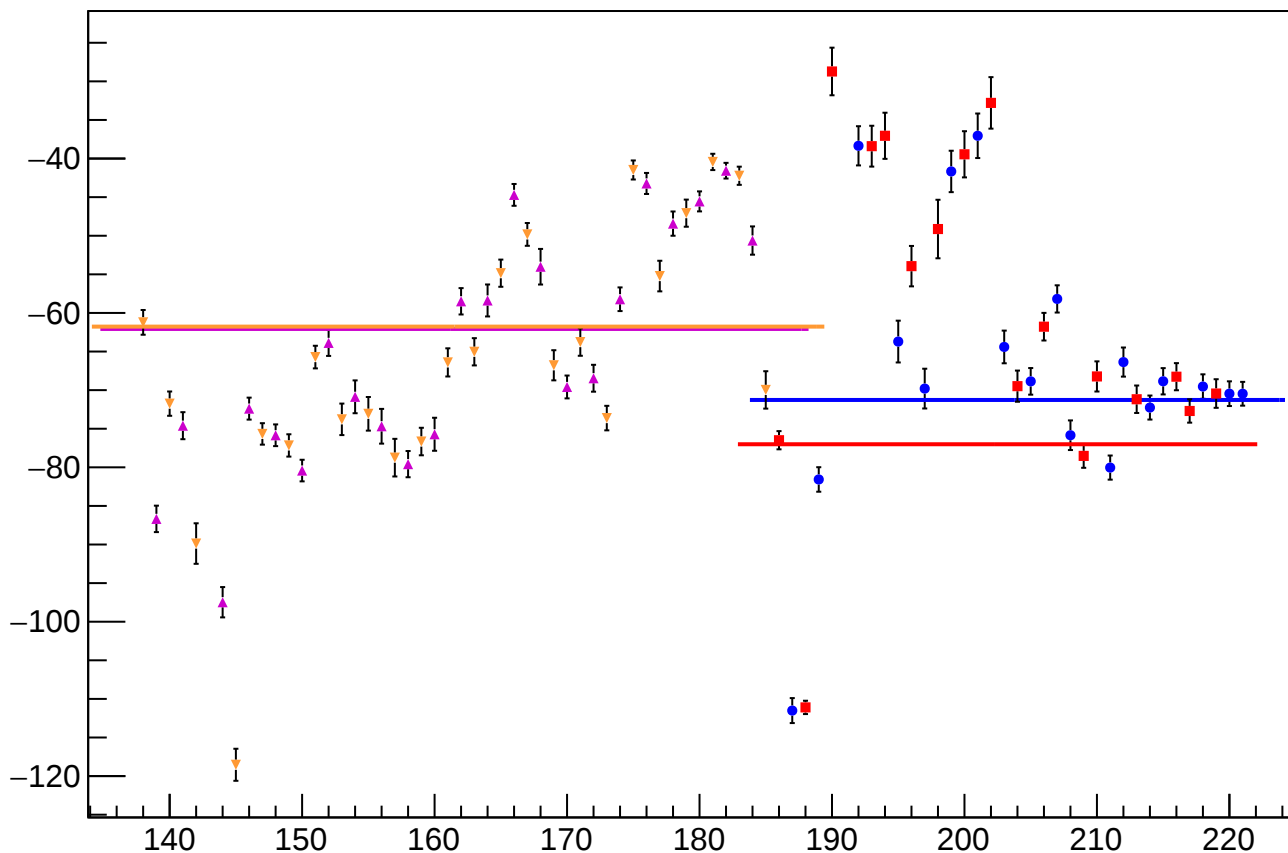
Right: 0.001+/-0.002 χ^2/NDF : 10557.6/70

In: 0.007+/-0.001 χ^2/NDF : 94.2/57

Out: 0.007+/-0.001 χ^2/NDF : 10523.1/60

All: 0.007+/-0.001 χ^2/NDF : 10617.4/118

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.273 ± 0.435 $\chi^2/\text{NDF}: 1215.4/17$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -77.011 ± 0.429 $\chi^2/\text{NDF}: 2822.7/16$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

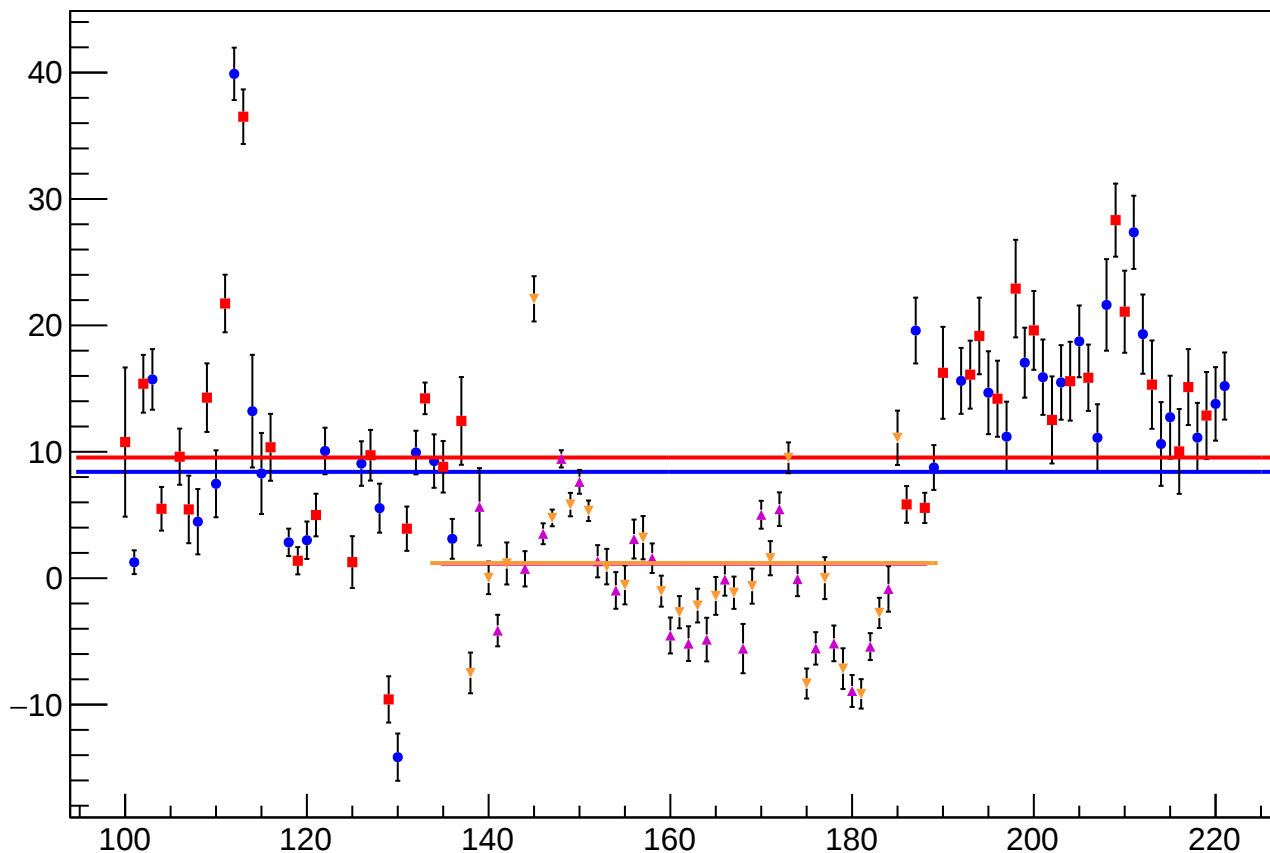
Right: -74.183 ± 0.305 $\chi^2/\text{NDF}: 4126.4/34$

In: -65.466 ± 0.264 $\chi^2/\text{NDF}: 3690.1/40$

Out: -67.528 ± 0.263 $\chi^2/\text{NDF}: 6114.6/40$

All: -66.500 ± 0.186 $\chi^2/\text{NDF}: 9835.2/81$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.413 $\pm$ 0.359 χ^2/NDF : 650.5/33

Left Out: 1.198 $\pm$ 0.253 χ^2/NDF :526.3/23

Right Out: 9.547 $\pm$ 0.364 χ^2/NDF : 551.5/34

Left In: 1.146 $\pm$ 0.255 χ^2/NDF :462.9/22

Left: 1.172 $\pm$ 0.180 χ^2/NDF : 989.3/46

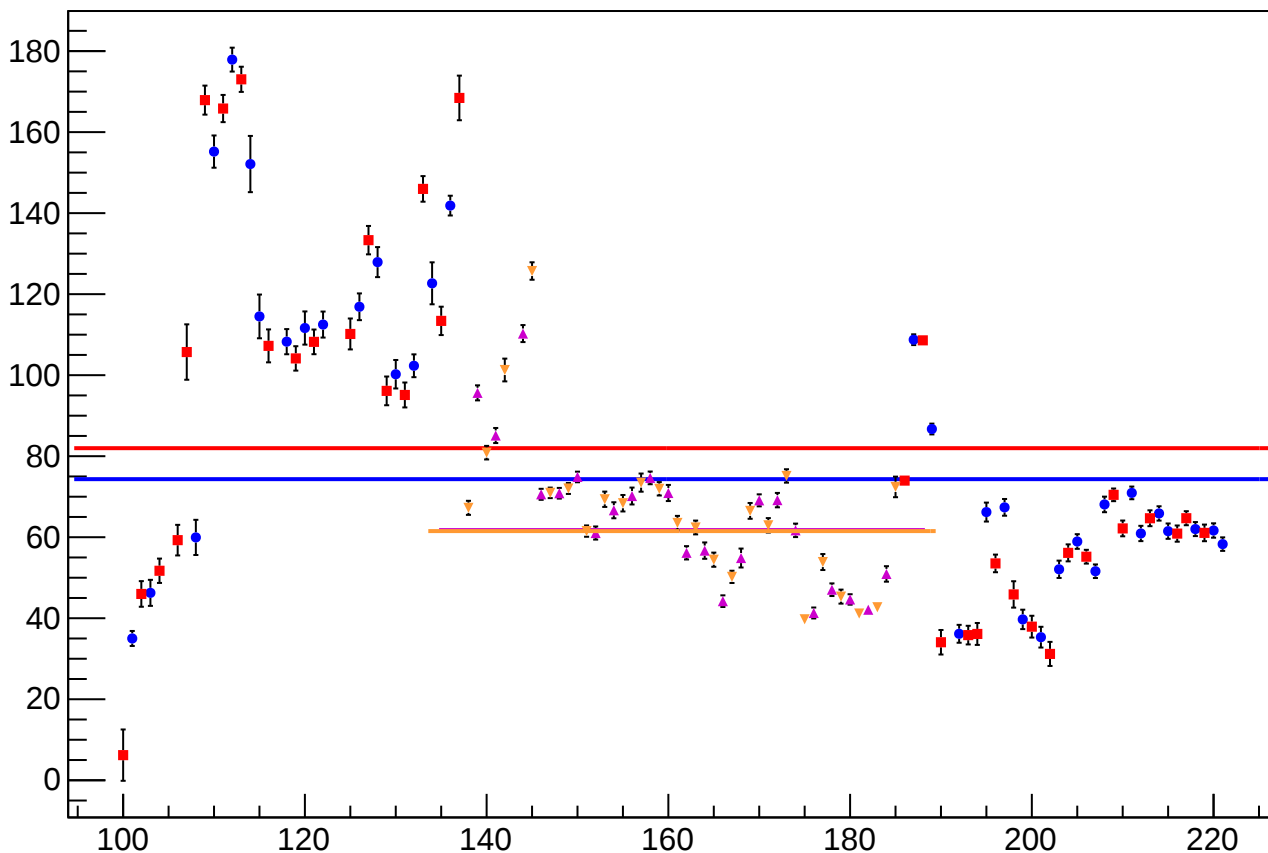
Right: 8.973 $\pm$ 0.256 χ^2/NDF : 1206.9/68

In: 3.585 $\pm$ 0.208 χ^2/NDF :1385.3/56

Out: 3.914 $\pm$ 0.207 χ^2/NDF :1433.3/58

All: 3.750 $\pm$ 0.147 χ^2/NDF : 2819.9/115

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 74.333 $\pm$ 0.377 χ^2 /NDF: 6302.5/33

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 81.980 $\pm$ 0.355 χ^2 /NDF: 7971.3/34

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

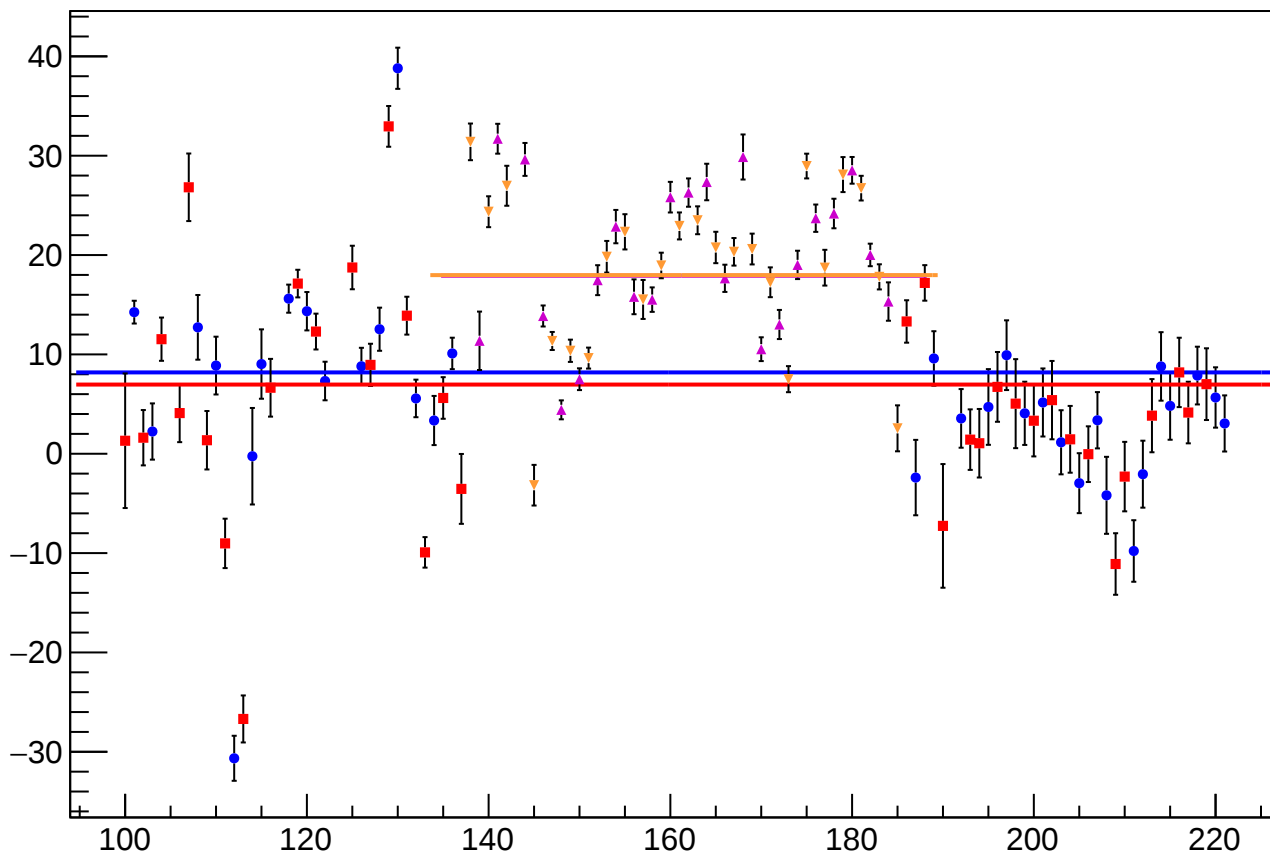
Right: 78.389 $\pm$ 0.258 χ^2 /NDF: 14492.0/68

In: 67.214 $\pm$ 0.248 χ^2 /NDF:9350.2/56

Out: 71.079 $\pm$ 0.243 χ^2 /NDF:12350.4/58

All: 69.192 $\pm$ 0.173 χ^2 /NDF: 21824.6/115

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.187 ± 0.416 χ^2/NDF : 692.1/33

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.964 ± 0.430 χ^2/NDF : 793.5/34

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

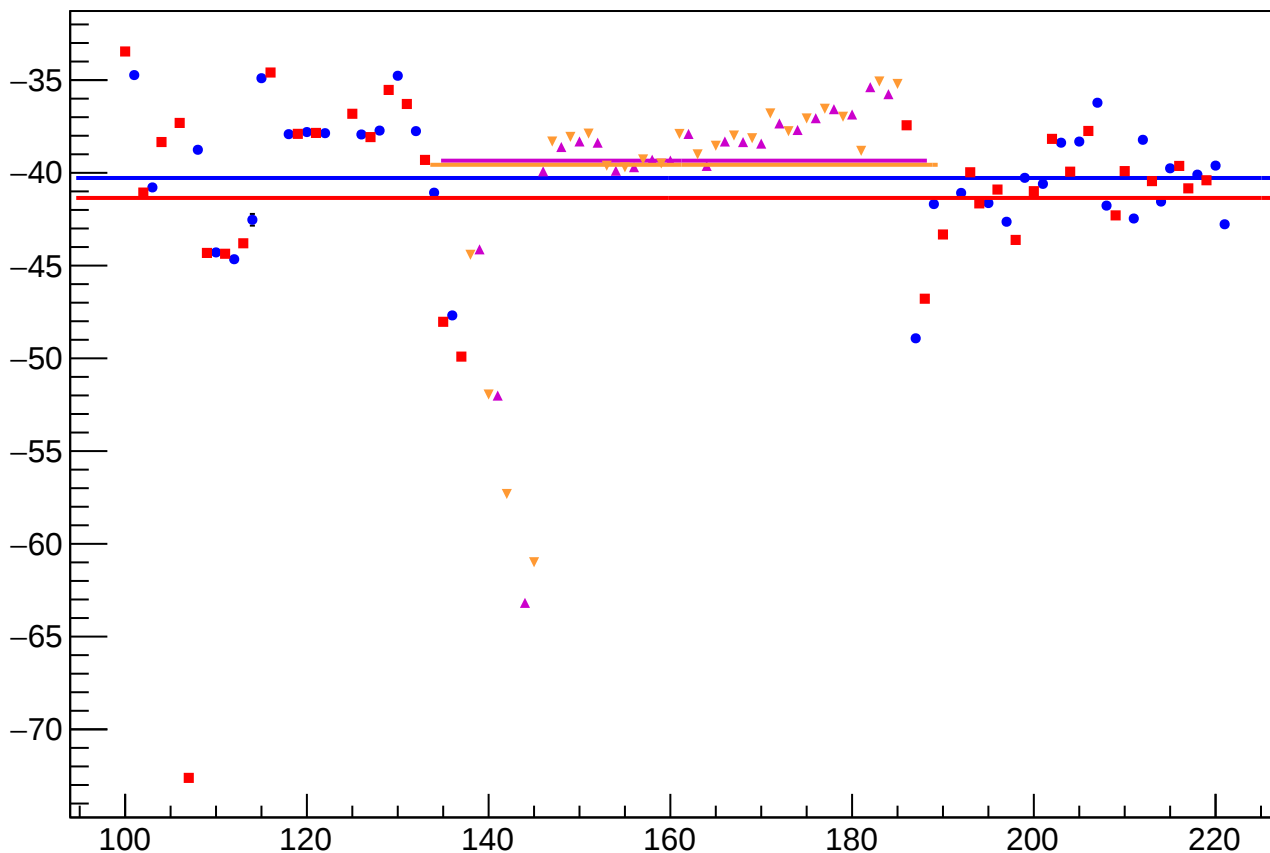
Right: 7.597 ± 0.299 χ^2/NDF : 1489.7/68

In: 14.695 ± 0.239 χ^2/NDF : 1785.3/56

Out: 14.525 ± 0.241 χ^2/NDF : 1917.7/58

All: 14.611 ± 0.170 χ^2/NDF : 3703.2/115

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.277 ± 0.021 χ^2/NDF : 30133.4/33

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.353 ± 0.021 χ^2/NDF : 68814.7/34

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

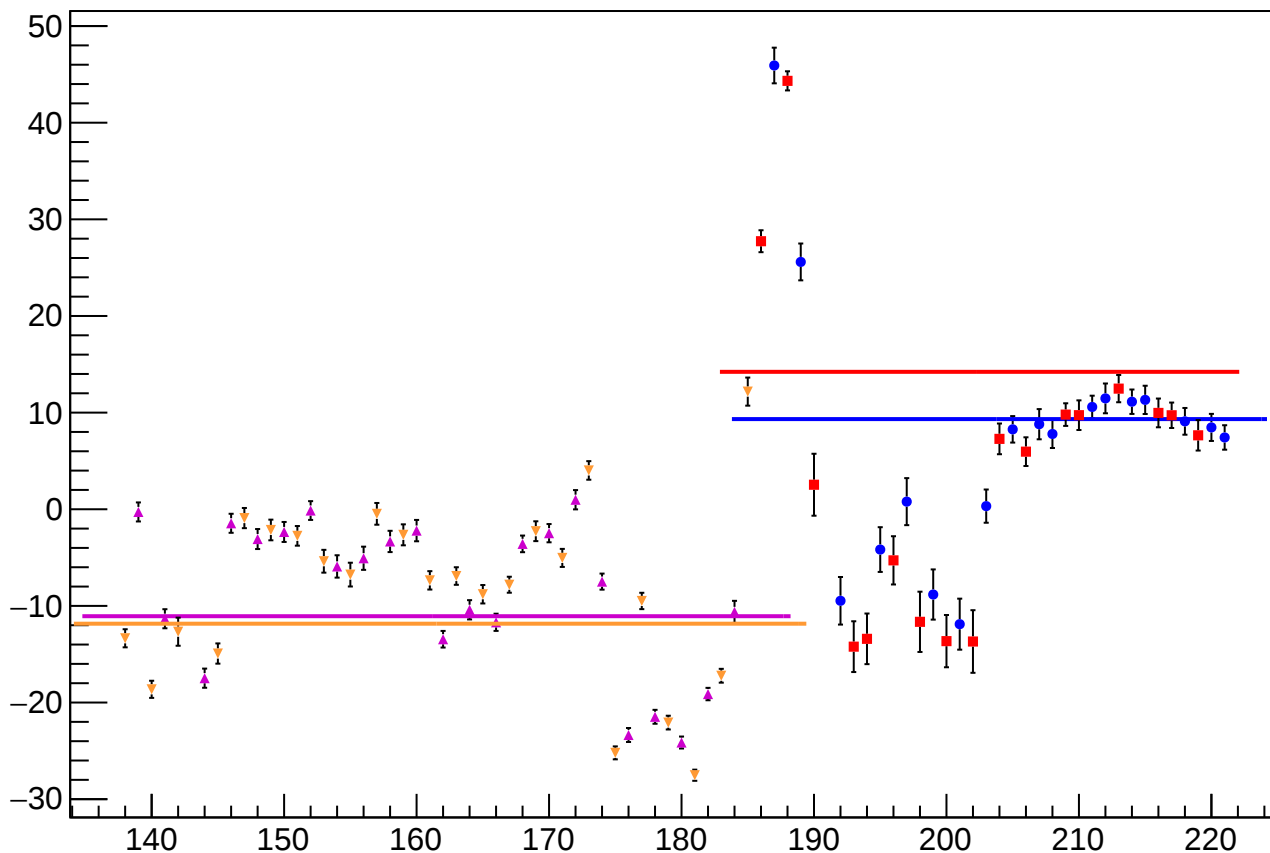
Right: -40.809 ± 0.015 χ^2/NDF : 100271.9/68

In: -39.623 ± 0.011 χ^2/NDF : 148160.4/56

Out: -40.100 ± 0.012 χ^2/NDF : 215075.1/58

All: -39.859 ± 0.008 χ^2/NDF : 364104.1/115

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.330 ± 0.377 $\chi^2/\text{NDF}: 723.2/17$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 14.221 ± 0.389 $\chi^2/\text{NDF}: 1730.4/16$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

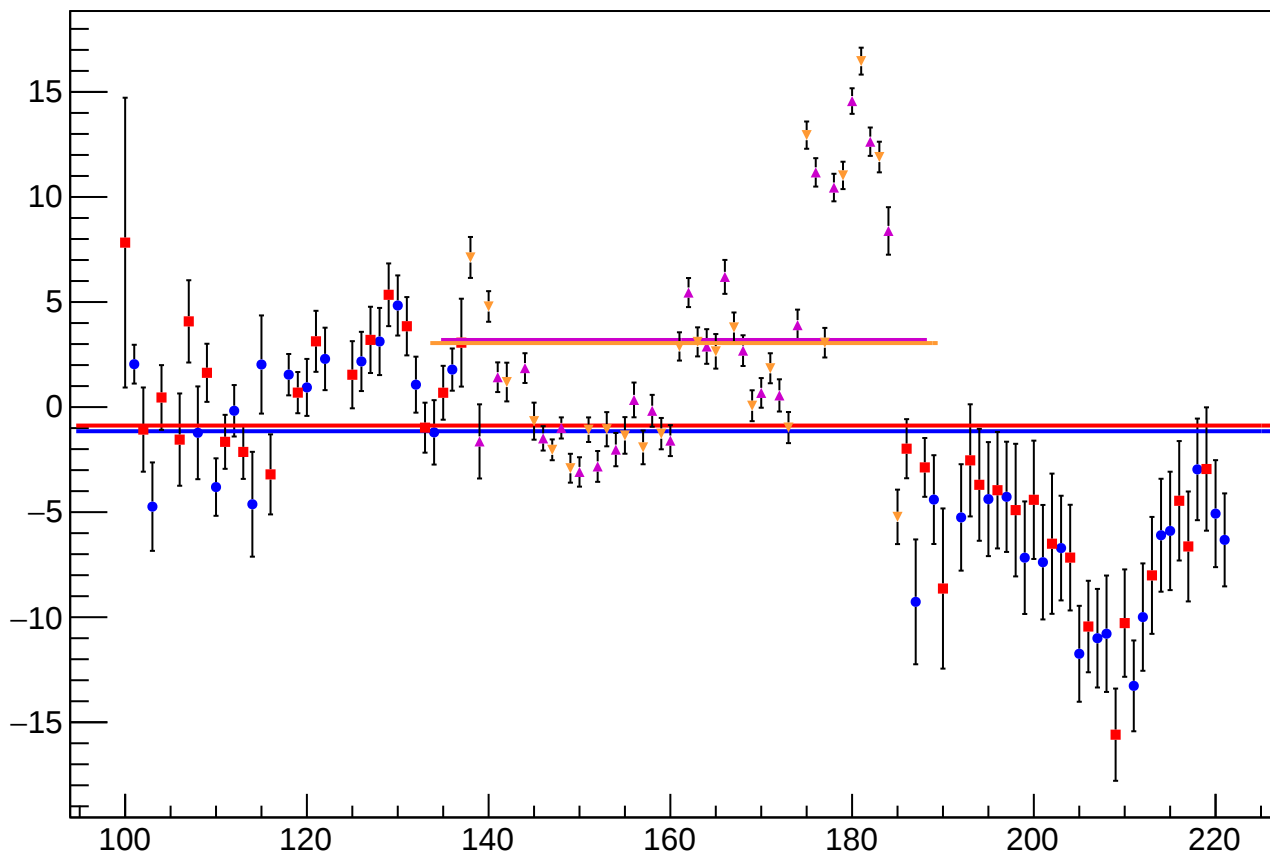
Right: 11.700 ± 0.271 $\chi^2/\text{NDF}: 2535.2/34$

In: -7.002 ± 0.168 $\chi^2/\text{NDF}: 5174.4/40$

Out: -6.951 ± 0.168 $\chi^2/\text{NDF}: 8123.1/40$

All: -6.977 ± 0.119 $\chi^2/\text{NDF}: 13297.6/81$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.148 ± 0.296 χ^2/NDF : 219.6/33

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.879 ± 0.301 χ^2/NDF : 181.2/34

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

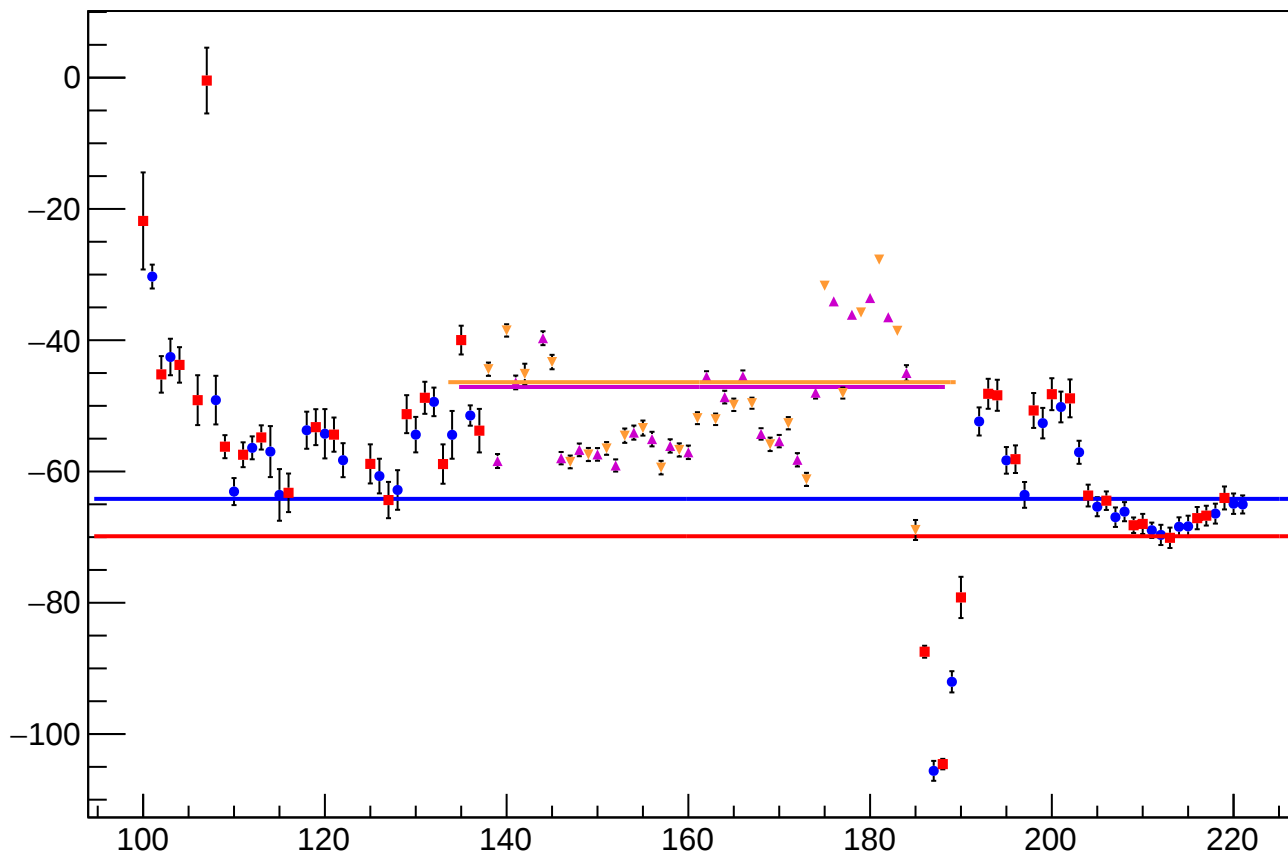
Right: -1.016 ± 0.211 χ^2/NDF : 401.3/68

In: 2.307 ± 0.134 χ^2/NDF : 1685.9/56

Out: 2.283 ± 0.133 χ^2/NDF : 1775.6/58

All: 2.295 ± 0.094 χ^2/NDF : 3461.5/115

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.172 ± 0.322 $\chi^2/\text{NDF}: 1822.1/33$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -69.865 ± 0.315 $\chi^2/\text{NDF}: 3752.6/34$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

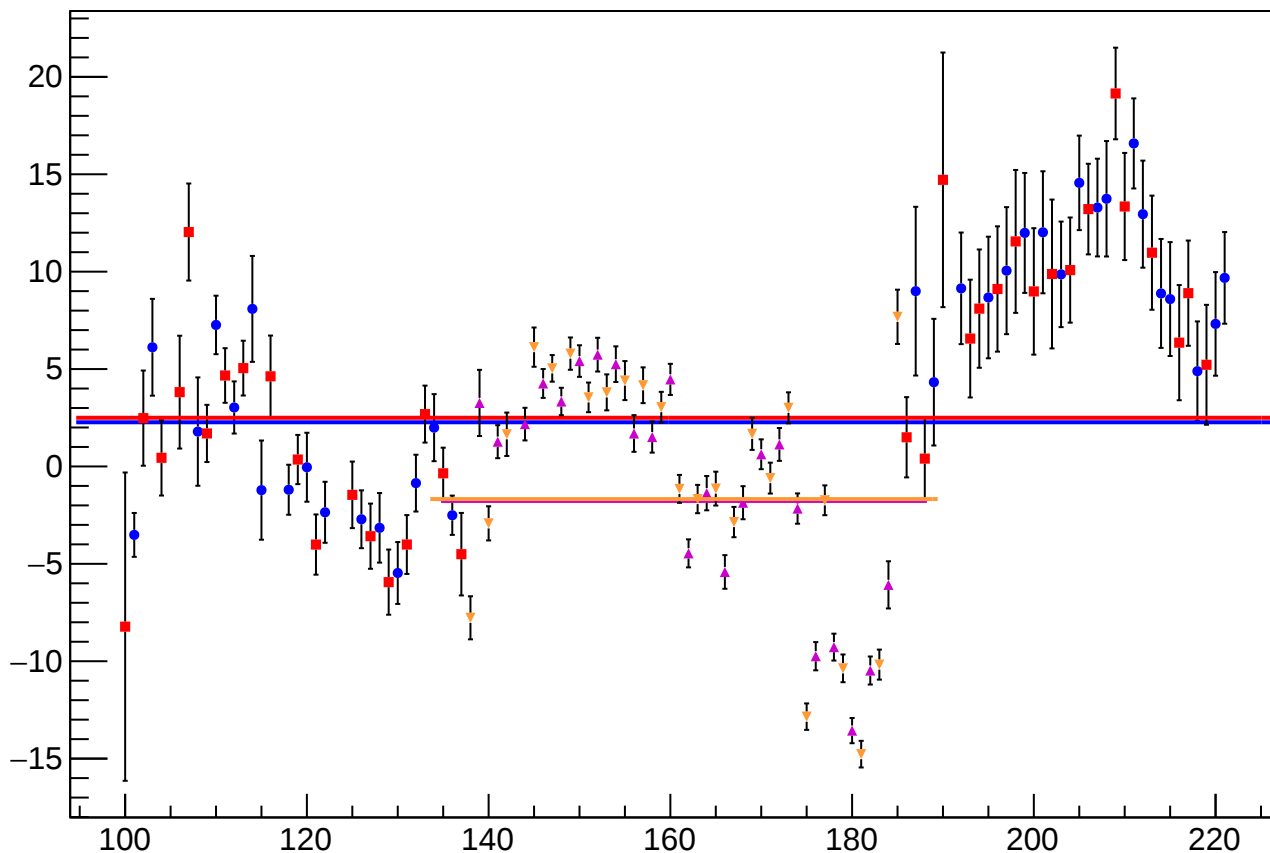
Right: -67.078 ± 0.225 $\chi^2/\text{NDF}: 5734.4/68$

In: -51.437 ± 0.162 $\chi^2/\text{NDF}: 6434.1/56$

Out: -52.482 ± 0.161 $\chi^2/\text{NDF}: 11146.1/58$

All: -51.963 ± 0.114 $\chi^2/\text{NDF}: 17601.2/115$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.268 ± 0.334 $\chi^2/\text{NDF}: 319.9/33$

Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$

Right Out: 2.499 ± 0.345 $\chi^2/\text{NDF}: 262.9/34$

Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$

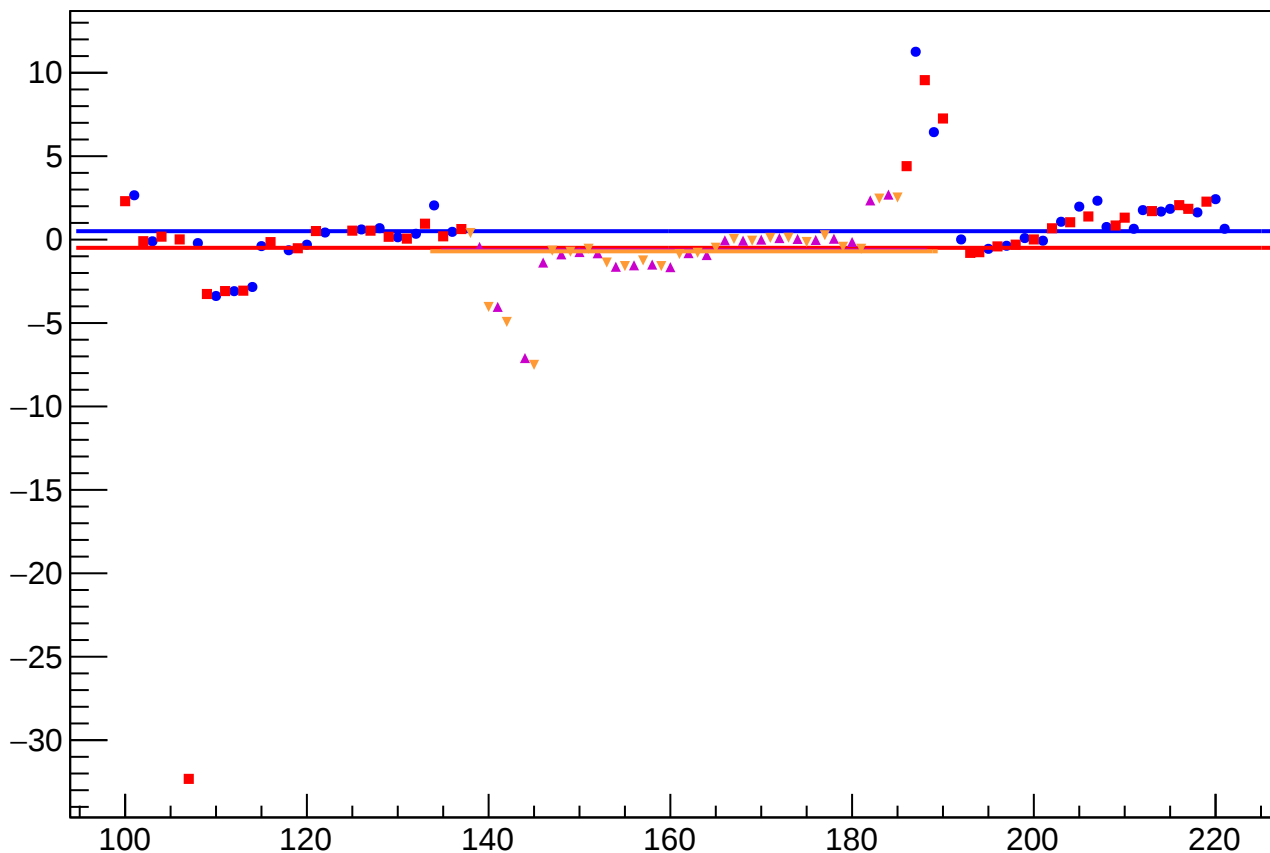
Right: 2.380 ± 0.240 $\chi^2/\text{NDF}: 583.0/68$

In: -0.949 ± 0.151 $\chi^2/\text{NDF}: 1687.4/56$

Out: -0.883 ± 0.150 $\chi^2/\text{NDF}: 1865.2/58$

All: -0.916 ± 0.106 $\chi^2/\text{NDF}: 3552.8/115$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.506 ± 0.017 $\chi^2/\text{NDF}: 10431.4/33$

Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$

Right Out: -0.492 ± 0.017 $\chi^2/\text{NDF}: 94725.6/34$

Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$

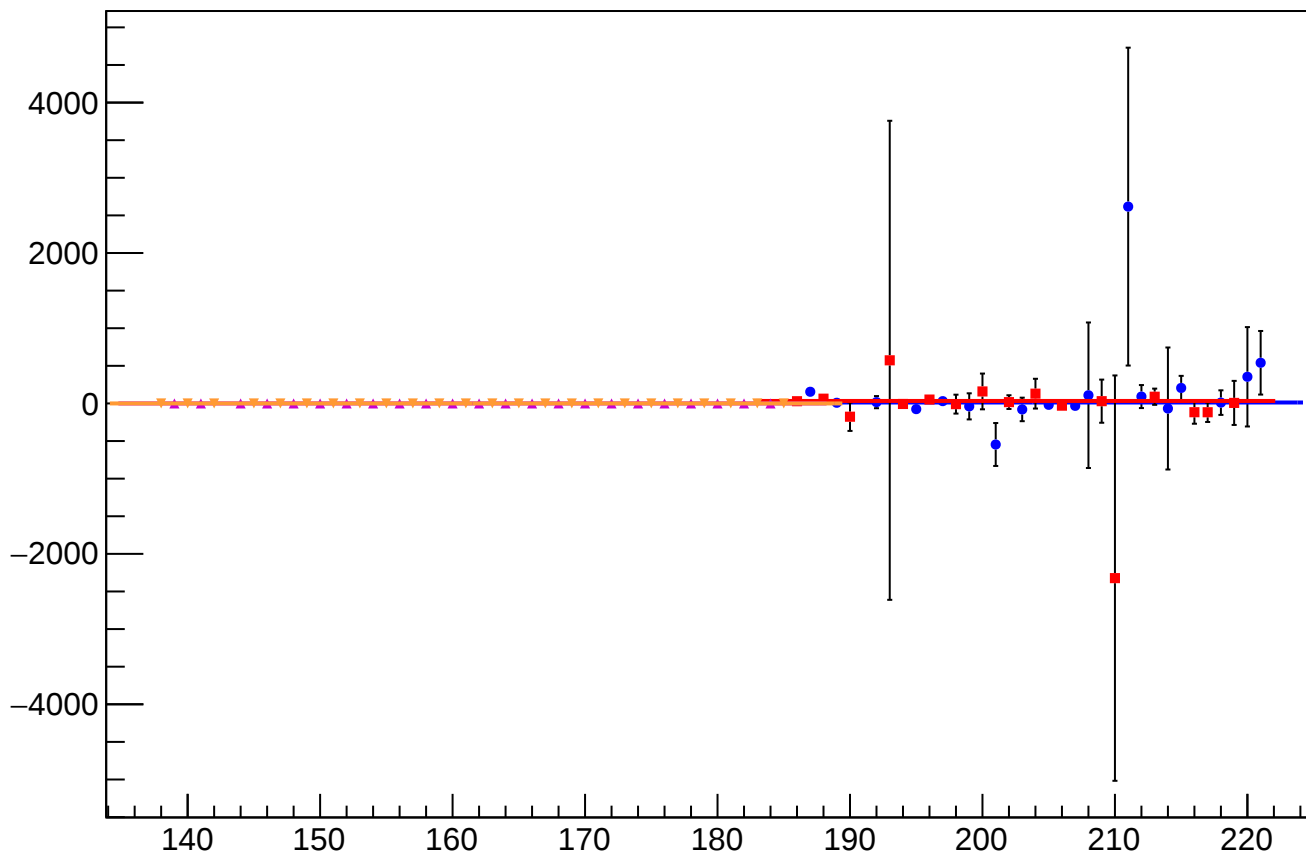
Right: 0.016 ± 0.012 $\chi^2/\text{NDF}: 106867.3/68$

In: -0.448 ± 0.007 $\chi^2/\text{NDF}: 58436.3/56$

Out: -0.667 ± 0.007 $\chi^2/\text{NDF}: 148684.2/58$

All: -0.557 ± 0.005 $\chi^2/\text{NDF}: 207615.0/115$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.496 $\pm$ 14.994 χ^2 /NDF: 24.5/17

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 32.944 $\pm$ 9.582 χ^2 /NDF: 9.9/16

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF:35.1/22

Left: -0.024 $\pm$ 0.013 χ^2 /NDF: 71.7/46

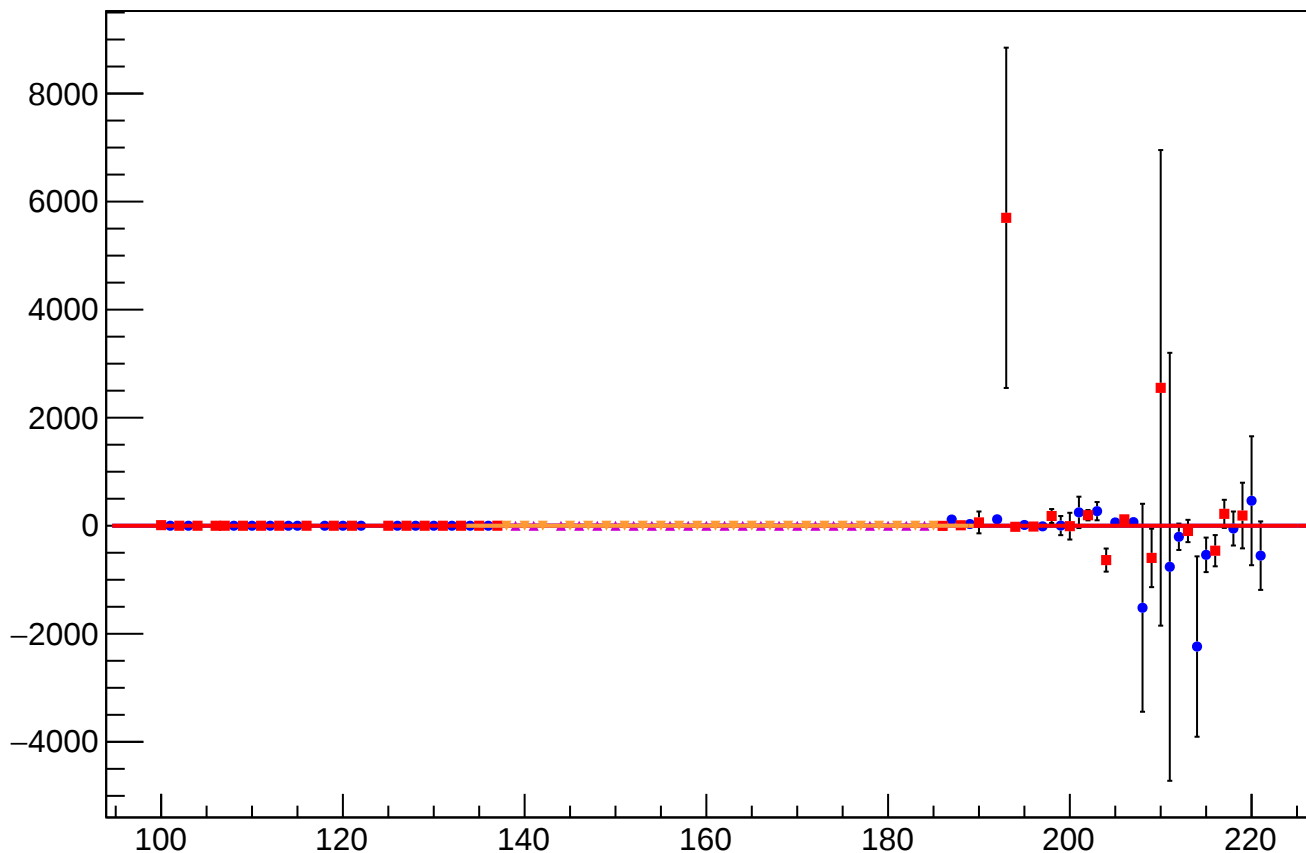
Right: 27.015 $\pm$ 8.074 χ^2 /NDF: 35.8/34

In: -0.010 $\pm$ 0.018 χ^2 /NDF:60.4/40

Out: -0.037 $\pm$ 0.018 χ^2 /NDF:57.2/40

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 118.7/81

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 30.4/33

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 39.9/34

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

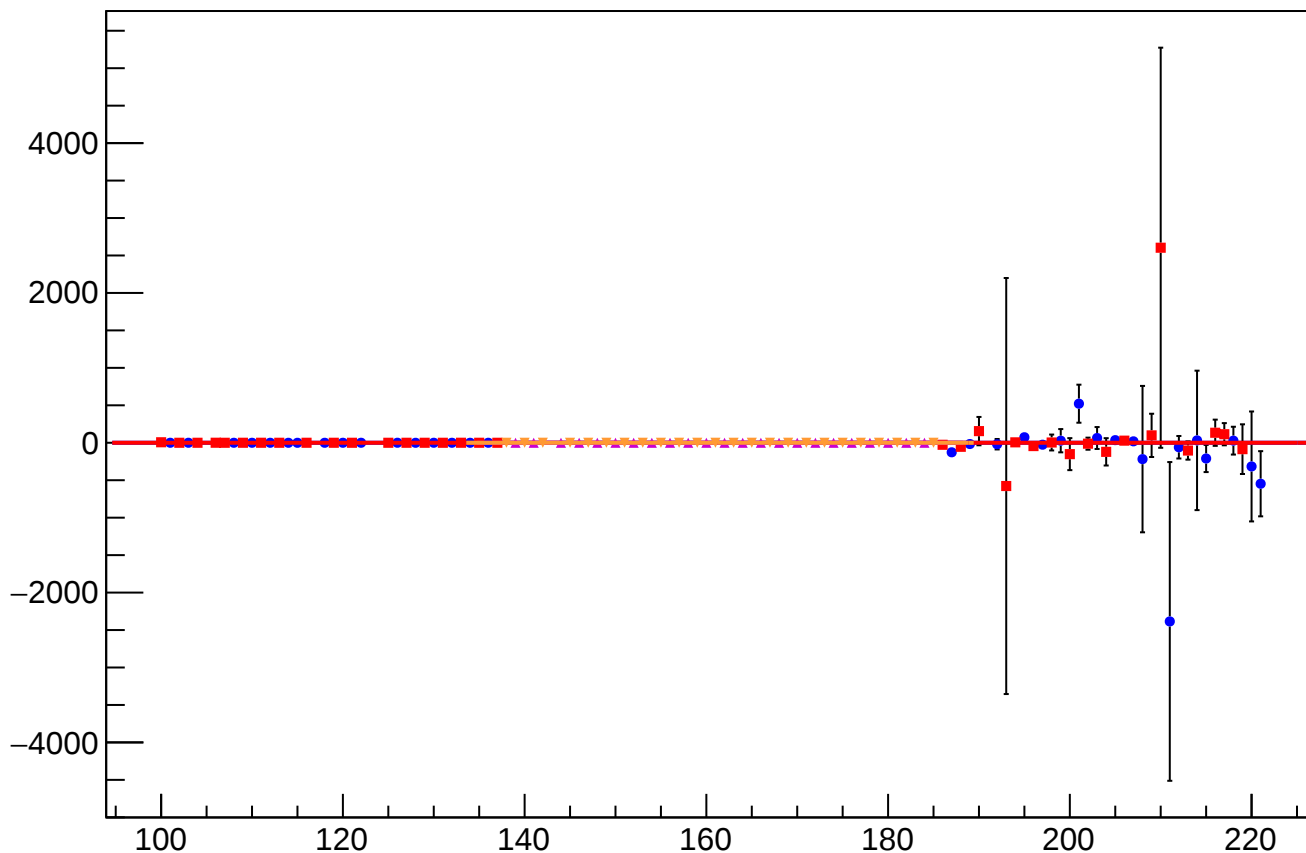
Right: -0.048 ± 0.017 χ^2/NDF : 75.1/68

In: -0.050 ± 0.012 χ^2/NDF : 74.9/56

Out: -0.076 ± 0.012 χ^2/NDF : 68.0/58

All: -0.063 ± 0.009 χ^2/NDF : 145.2/115

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 34.7/33

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 33.7/34

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

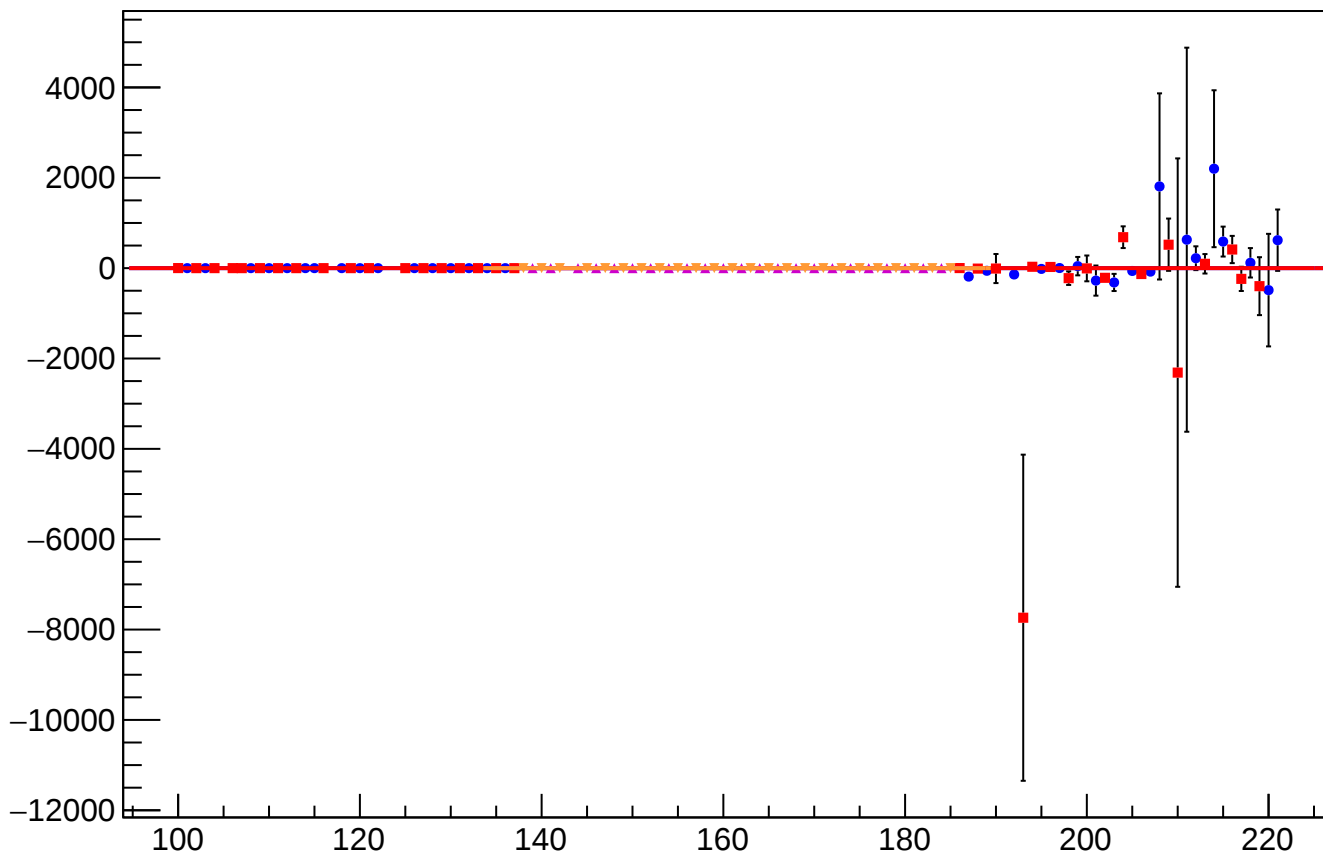
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 68.5/68

In: -0.005 $\pm$ 0.017 χ^2 /NDF:71.8/56

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:65.9/58

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 140.6/115

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 32.1/33

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 35.0/34

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

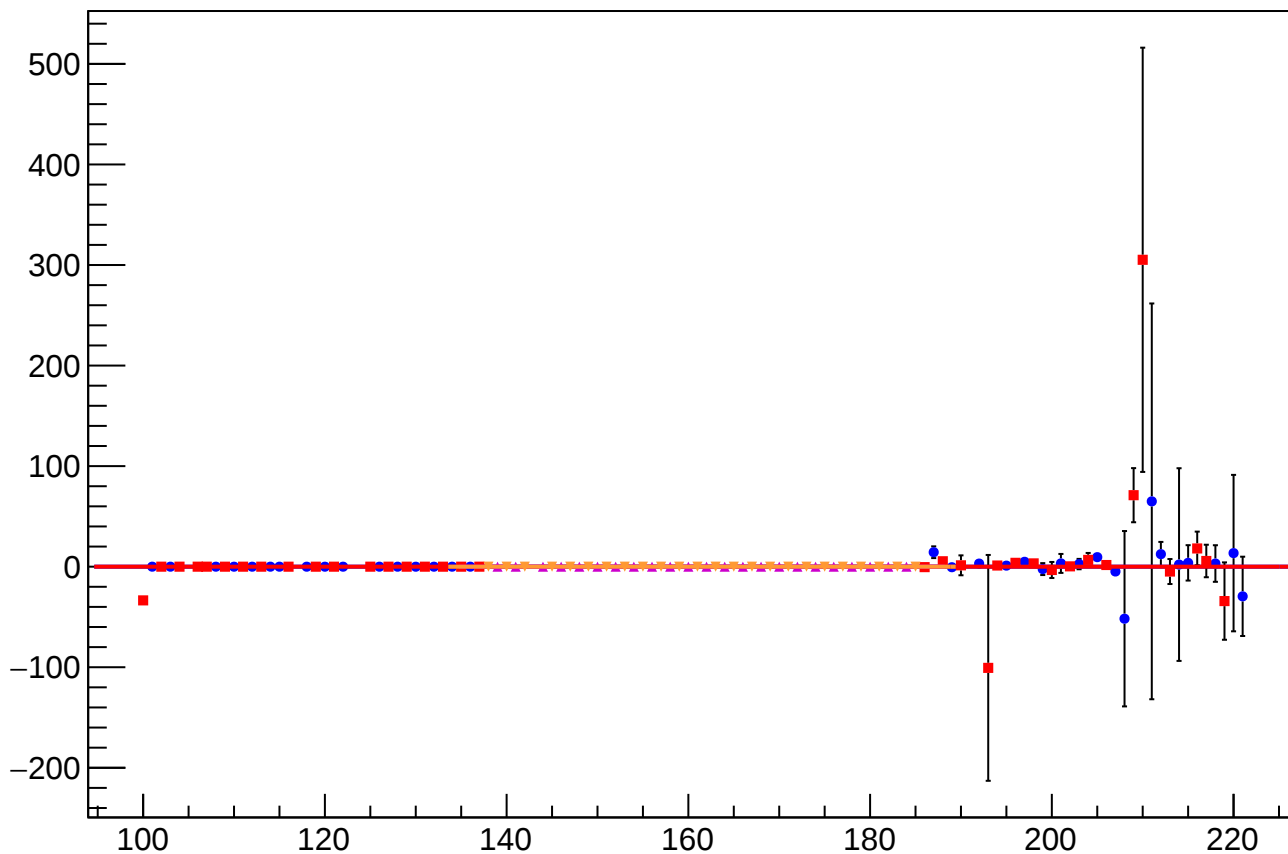
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 73.1/68

In: 0.053 $\pm$ 0.014 χ^2 /NDF:80.6/56

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:63.0/58

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 147.3/115

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 48.4/33

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26532.9/34

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

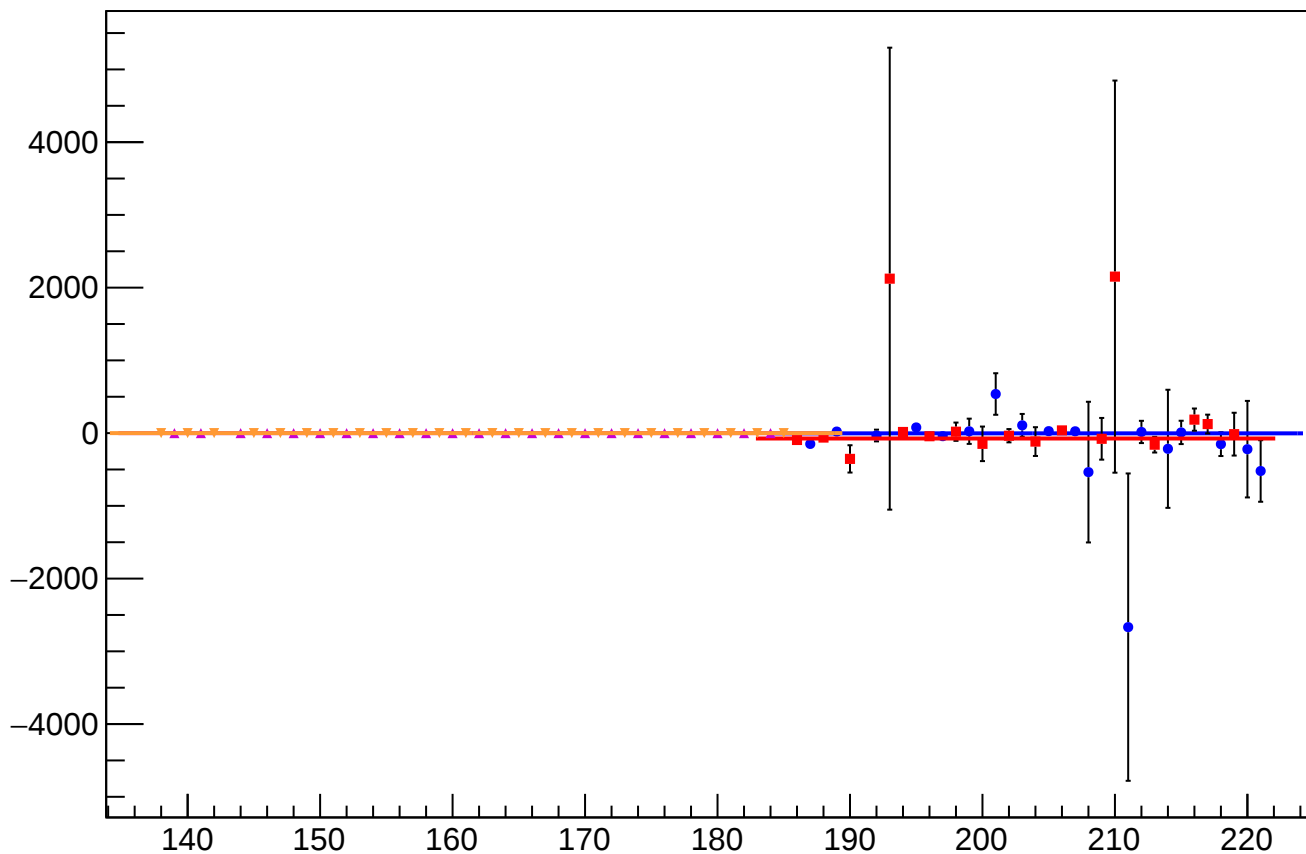
Right: -0.006 ± 0.001 χ^2/NDF : 26581.4/68

In: -0.001 ± 0.001 χ^2/NDF : 82.4/56

Out: -0.001 ± 0.001 χ^2/NDF : 26571.6/58

All: -0.001 ± 0.000 χ^2/NDF : 26654.0/115

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.194 ± 14.989 $\chi^2/\text{NDF}: 24.3/17$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.001 ± 9.584 $\chi^2/\text{NDF}: 21.9/16$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

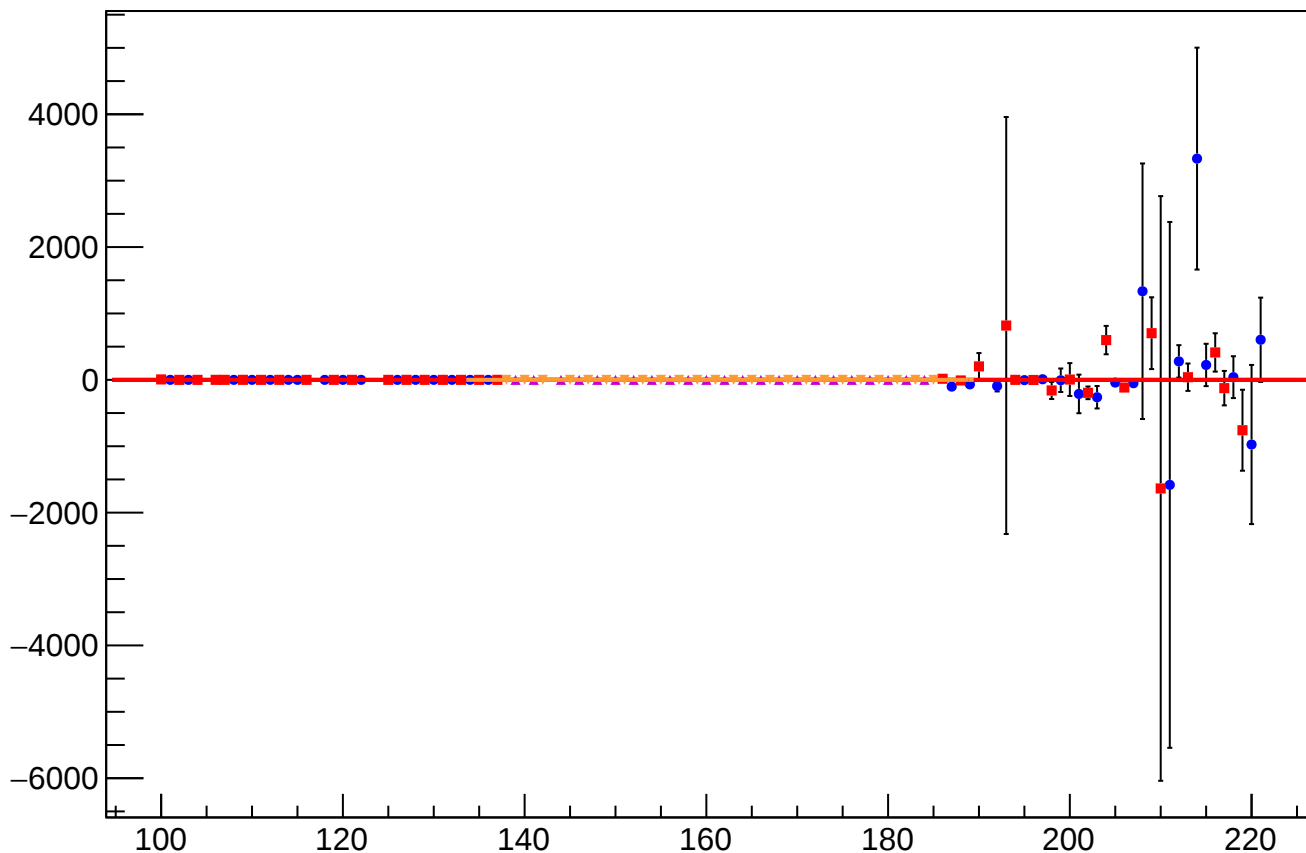
Right: -53.454 ± 8.074 $\chi^2/\text{NDF}: 62.0/34$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 59.4/40$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 118.8/40$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 181.1/81$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 45.3/33

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF: 29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 53.4/34

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF: 49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

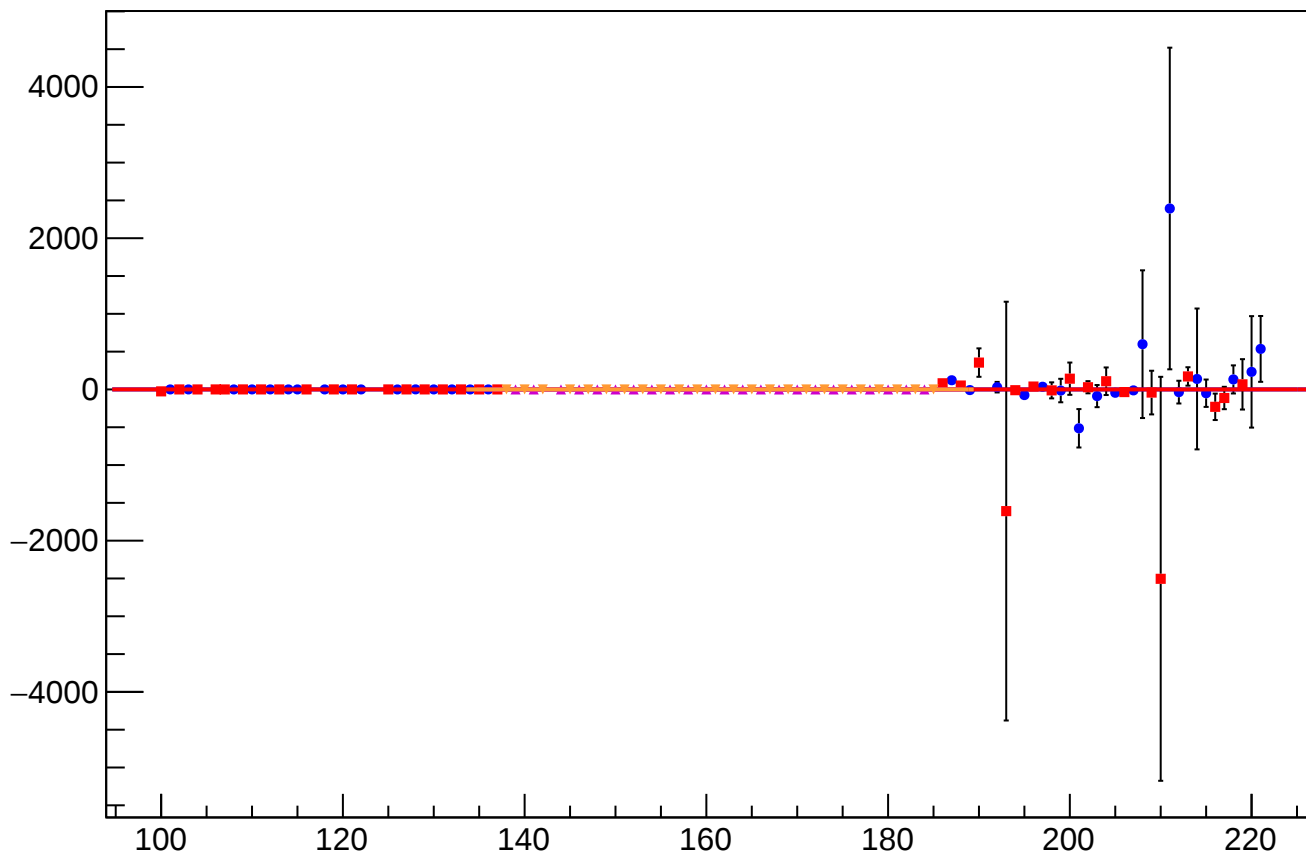
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 99.4/68

In: 0.006 $\pm$ 0.012 χ^2 /NDF: 94.8/56

Out: 0.001 $\pm$ 0.012 χ^2 /NDF: 85.8/58

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 180.7/115

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 54.1/33

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 113.9/34

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

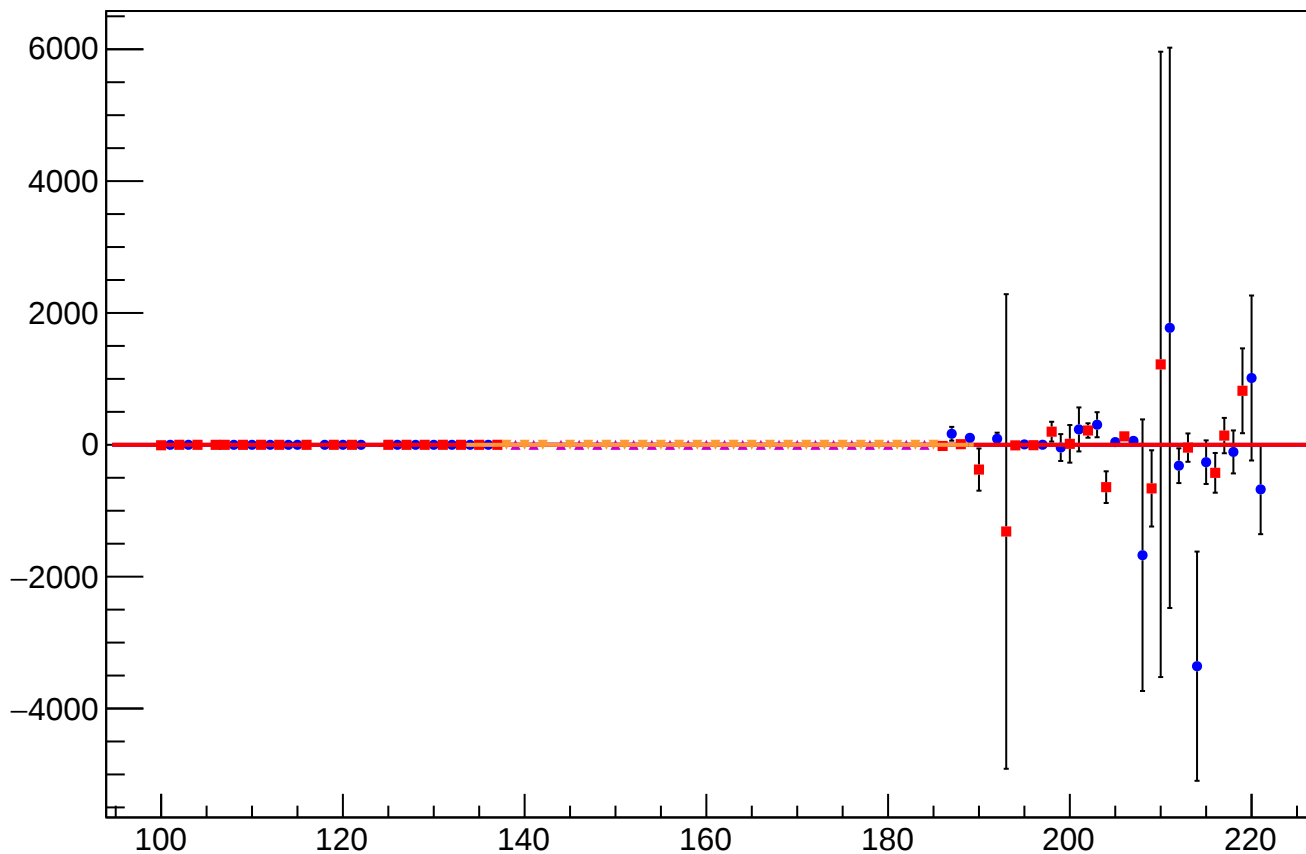
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 168.4/68

In: 0.040 $\pm$ 0.017 χ^2 /NDF:98.5/56

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:158.8/58

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 258.7/115

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 45.2/33$

Left Out: 0.022 ± 0.016 $\chi^2/\text{NDF}: 33.3/23$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 49.9/34$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 83.9/46$

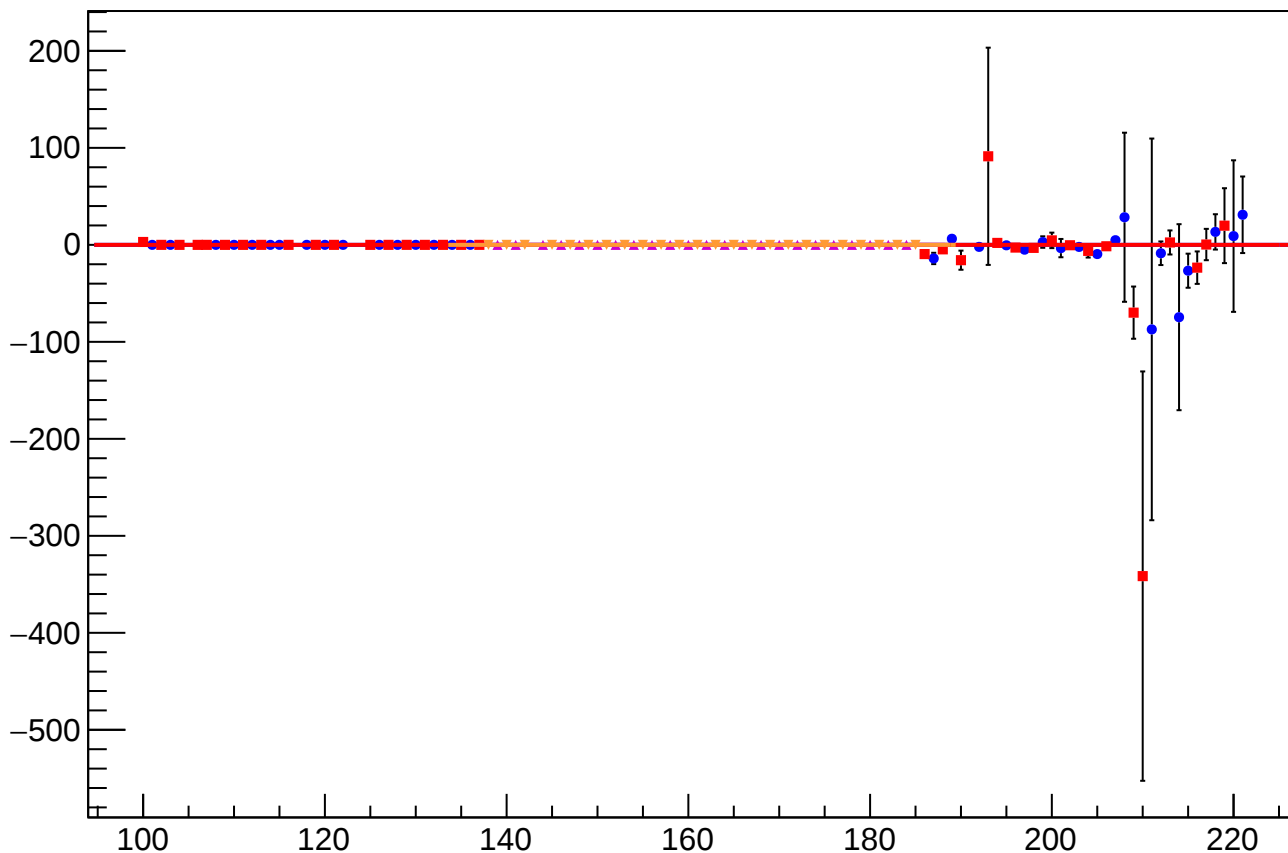
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 96.0/68$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 95.6/56$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 87.5/58$

All: 0.004 ± 0.010 $\chi^2/\text{NDF}: 183.2/115$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 62.5/33

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 226.5/34

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

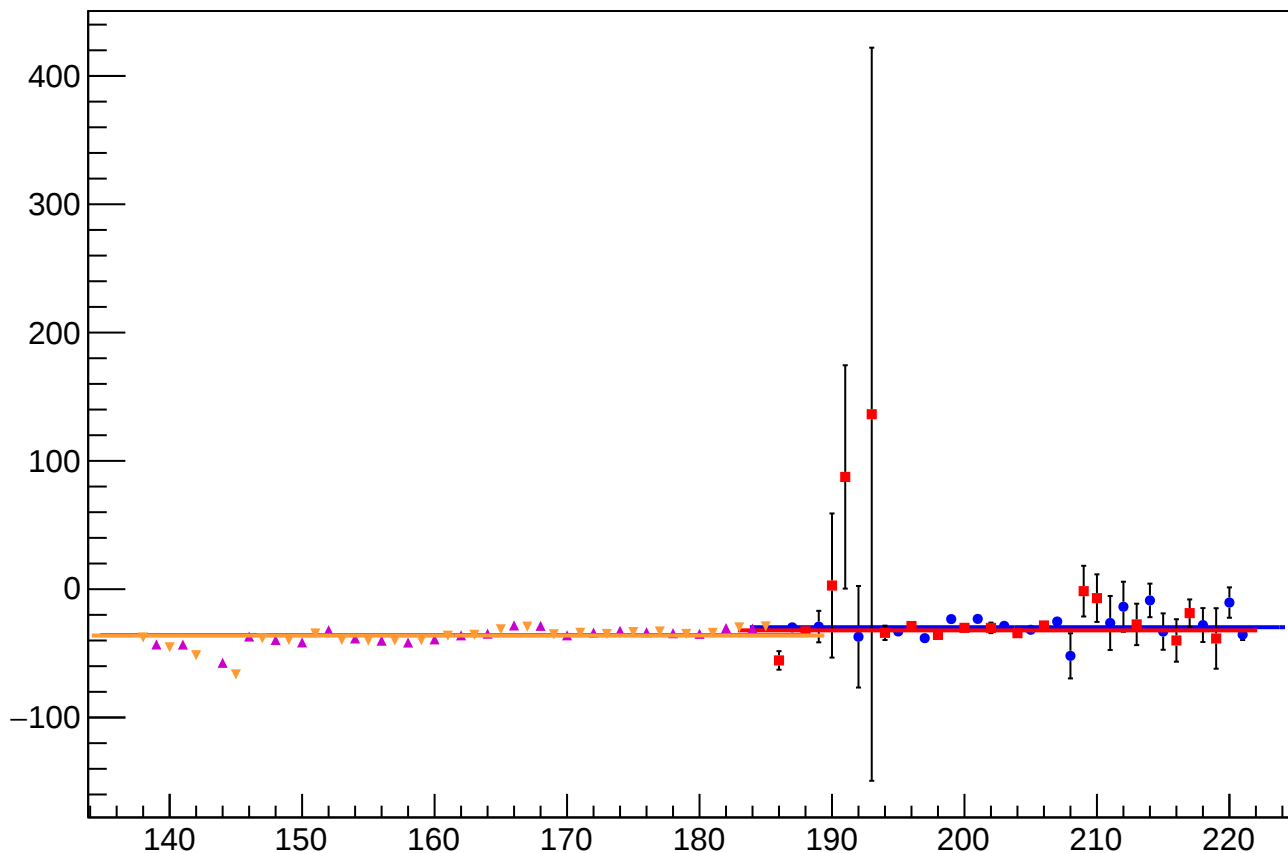
Right: -0.006 ± 0.001 χ^2/NDF : 289.0/68

In: -0.008 ± 0.001 χ^2/NDF : 102.3/56

Out: -0.008 ± 0.001 χ^2/NDF : 260.5/58

All: -0.008 ± 0.000 χ^2/NDF : 363.0/115

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.641 ± 0.833 χ^2/NDF : 33.5/17

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.092 ± 0.802 χ^2/NDF : 27.0/17

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

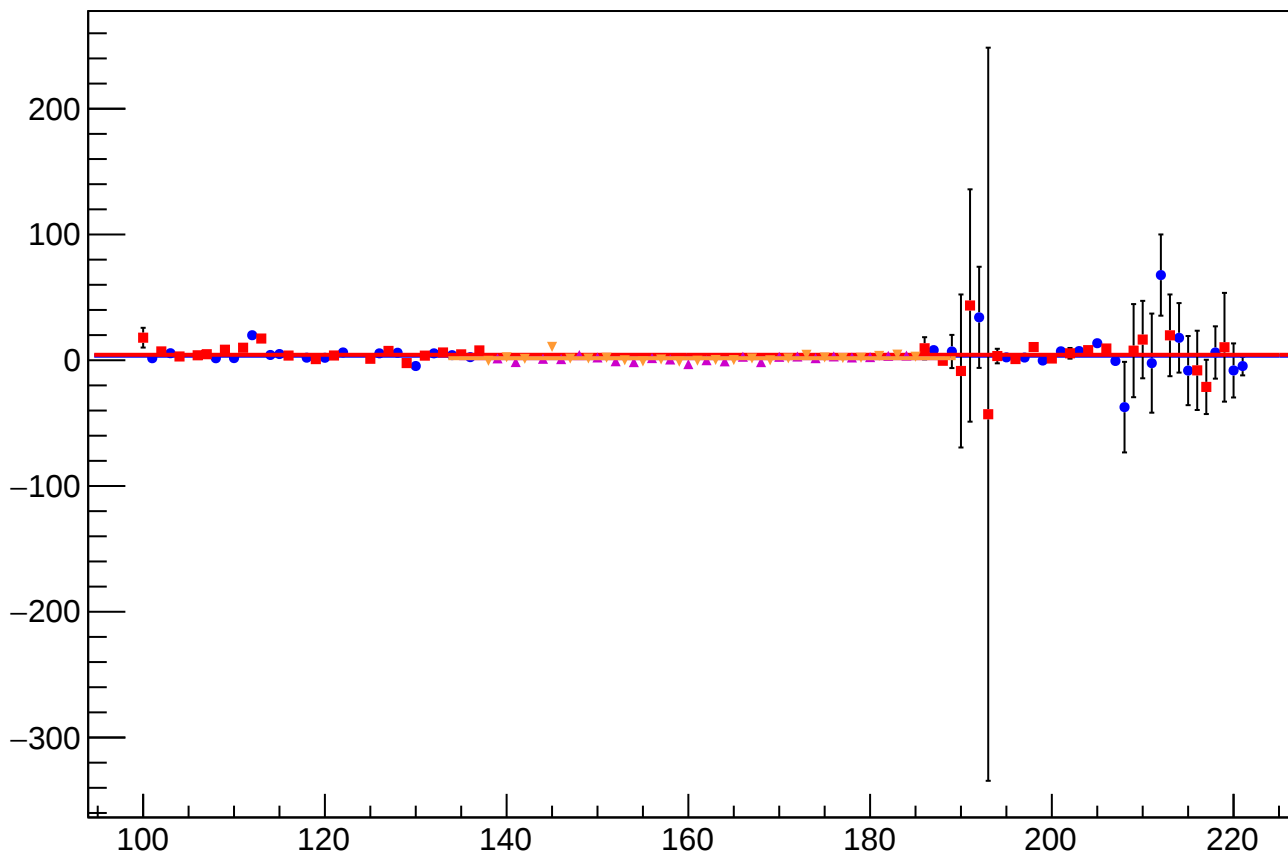
Right: -30.912 ± 0.578 χ^2/NDF : 65.0/35

In: -35.471 ± 0.186 χ^2/NDF : 939.2/40

Out: -35.902 ± 0.187 χ^2/NDF : 1165.7/41

All: -35.687 ± 0.132 χ^2/NDF : 2107.6/82

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.595 $\pm$ 0.217 χ^2 /NDF: 464.1/33

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.347 $\pm$ 0.221 χ^2 /NDF: 370.9/35

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

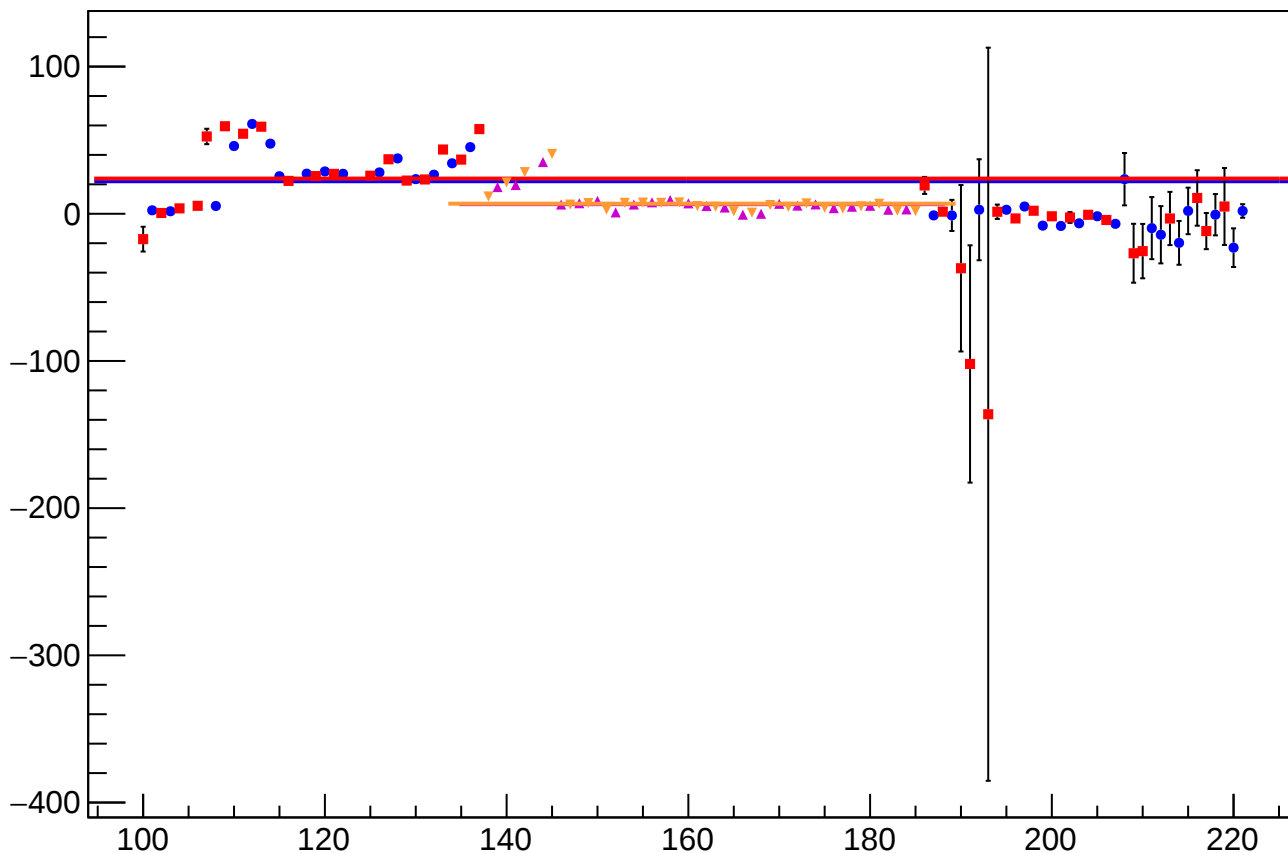
Right: 3.964 $\pm$ 0.155 χ^2 /NDF: 841.0/69

In: 2.272 $\pm$ 0.123 χ^2 /NDF:682.4/56

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:641.9/59

All: 2.373 $\pm$ 0.087 χ^2 /NDF: 1325.7/116

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.106+/-0.368 χ^2/NDF : 2855.5/33

Left Out: 6.866+/-0.191 χ^2/NDF :1295.7/23

Right Out: 23.896+/-0.361 χ^2/NDF : 3308.9/35

Left In: 6.537+/-0.190 χ^2/NDF :1025.1/22

Left: 6.700+/-0.135 χ^2/NDF : 2322.3/46

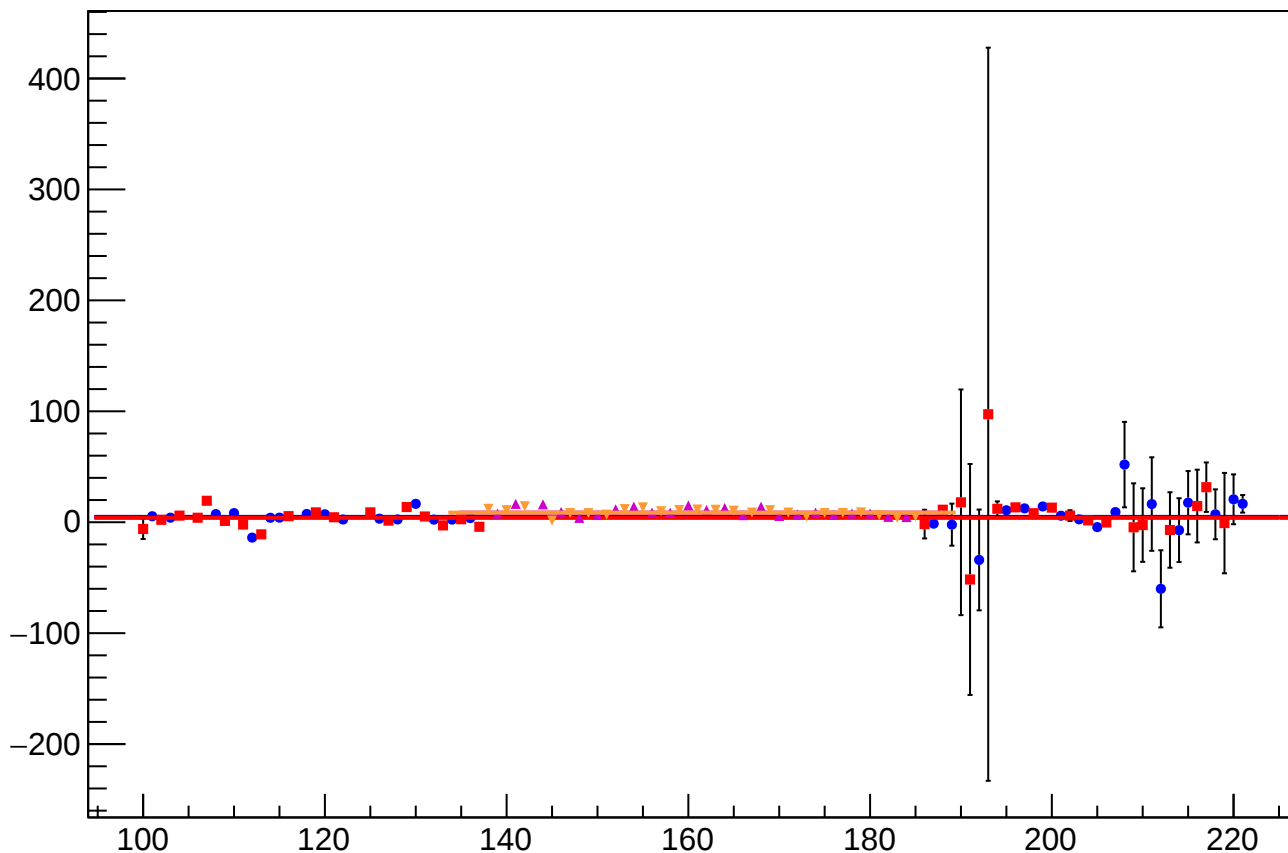
Right: 23.018+/-0.258 χ^2/NDF : 6176.5/69

In: 9.821+/-0.169 χ^2/NDF :5291.6/56

Out: 10.596+/-0.169 χ^2/NDF :6338.8/59

All: 10.208+/-0.120 χ^2/NDF : 11640.9/116

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.818 $\pm$ 0.250 χ^2 /NDF: 579.4/33

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.940 $\pm$ 0.254 χ^2 /NDF: 590.9/35

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

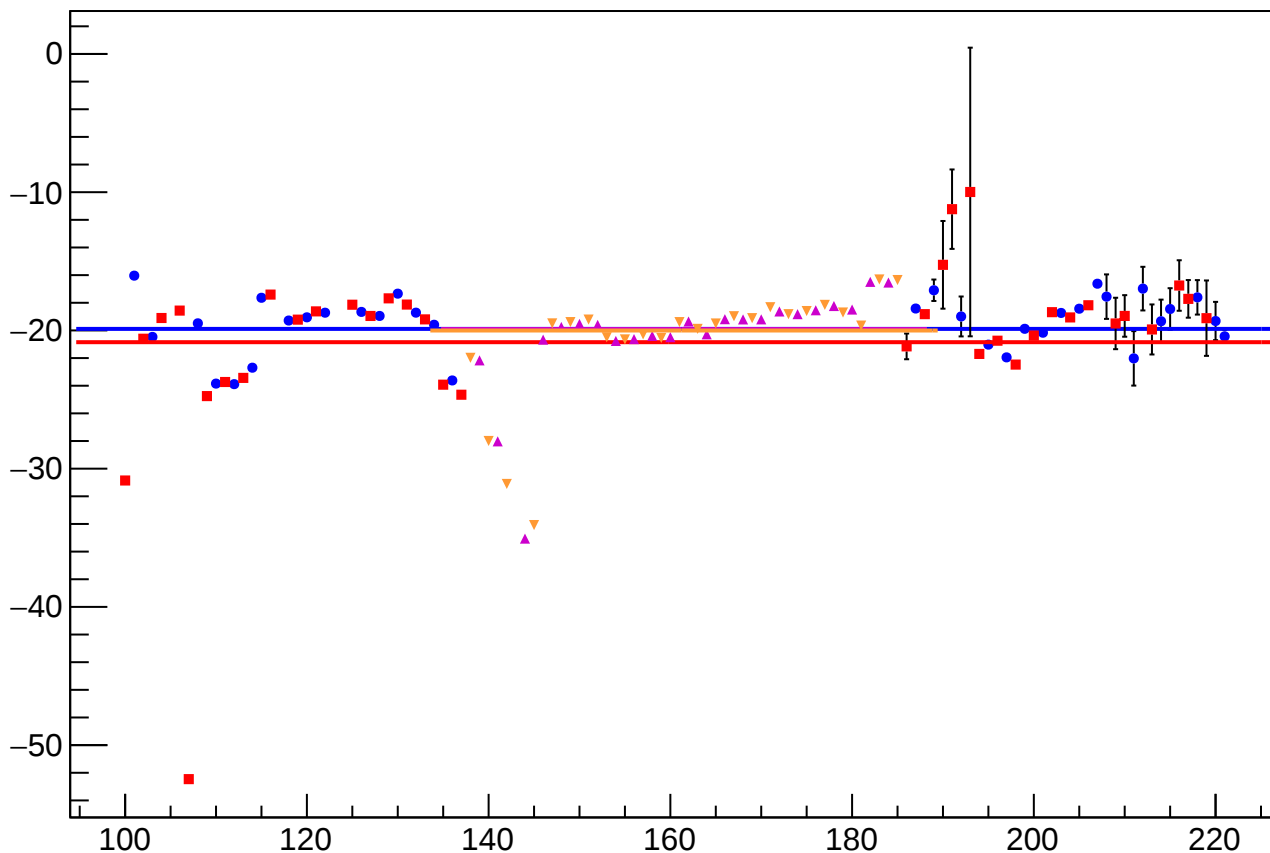
Right: 4.387 $\pm$ 0.178 χ^2 /NDF: 1176.4/69

In: 7.448 $\pm$ 0.141 χ^2 /NDF:1178.3/56

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1074.4/59

All: 7.343 $\pm$ 0.099 χ^2 /NDF: 2253.8/116

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 ± 0.015 χ^2/NDF : 27153.6/33

Left Out: -20.006 ± 0.008 χ^2/NDF : 171763.9/23

Right Out: -20.851 ± 0.015 χ^2/NDF : 95251.3/35

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.951 ± 0.006 χ^2/NDF : 316049.4/46

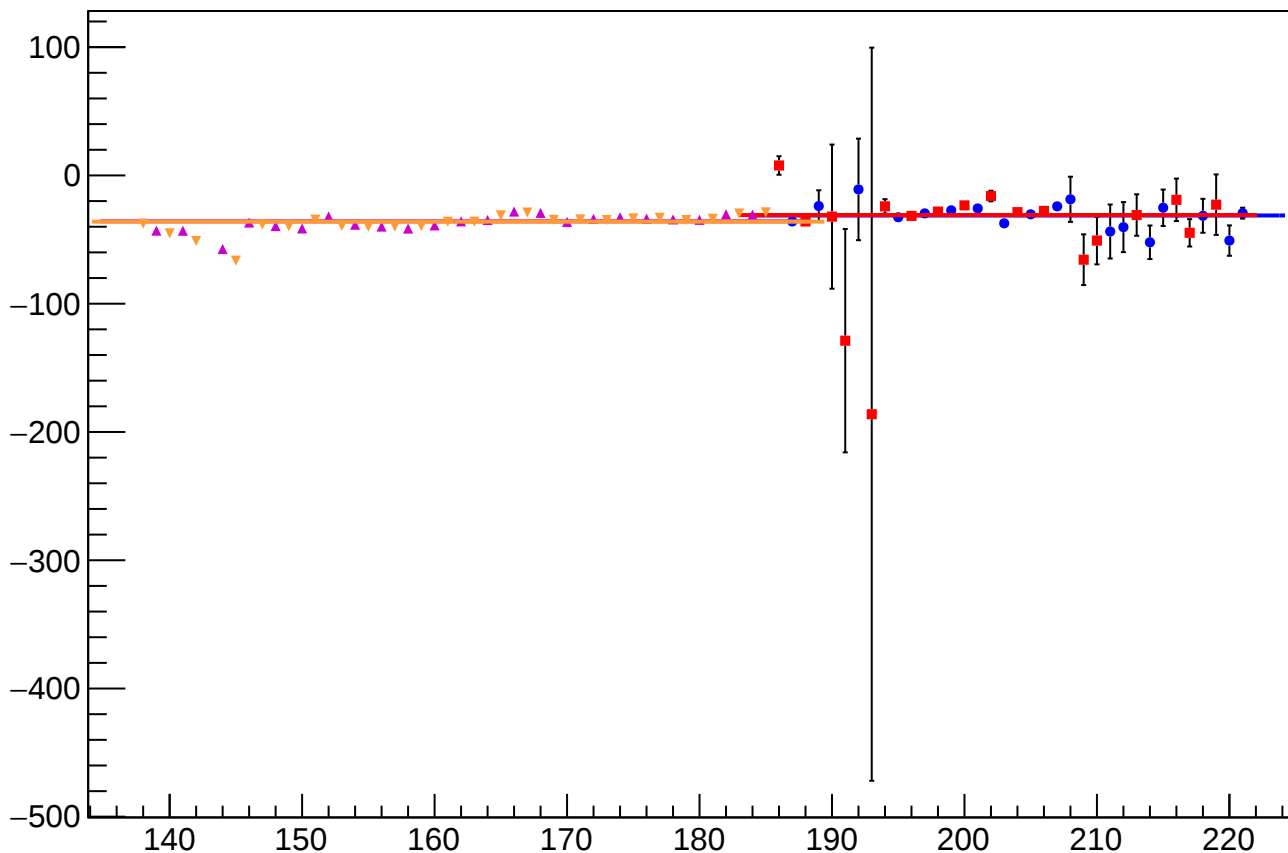
Right: -20.367 ± 0.011 χ^2/NDF : 124492.7/69

In: -19.896 ± 0.007 χ^2/NDF : 171345.7/56

Out: -20.190 ± 0.007 χ^2/NDF : 269519.3/59

All: -20.042 ± 0.005 χ^2/NDF : 441759.3/116

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

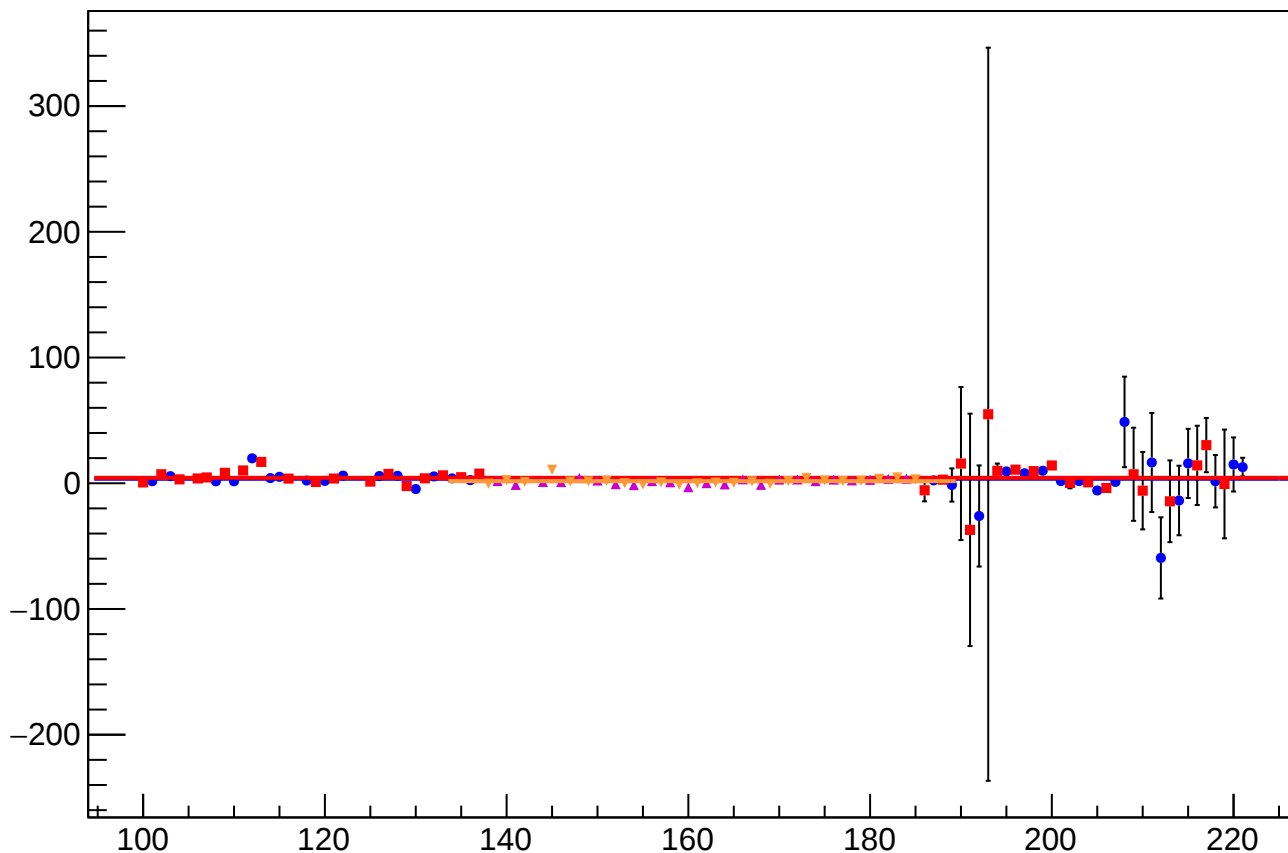


Right In: -31.227 ± 0.835 $\chi^2/\text{NDF}: 34.3/17$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -30.894 ± 0.804 $\chi^2/\text{NDF}: 78.5/17$
 Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$
 Right: -31.054 ± 0.579 $\chi^2/\text{NDF}: 112.9/35$
 In: -35.540 ± 0.186 $\chi^2/\text{NDF}: 904.9/40$
 Out: -35.754 ± 0.187 $\chi^2/\text{NDF}: 1238.4/41$

All: -35.647 ± 0.132 $\chi^2/\text{NDF}: 2144.0/82$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.576 $\pm$ 0.216 χ^2 /NDF: 463.9/33

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.323 $\pm$ 0.217 χ^2 /NDF: 380.3/35

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

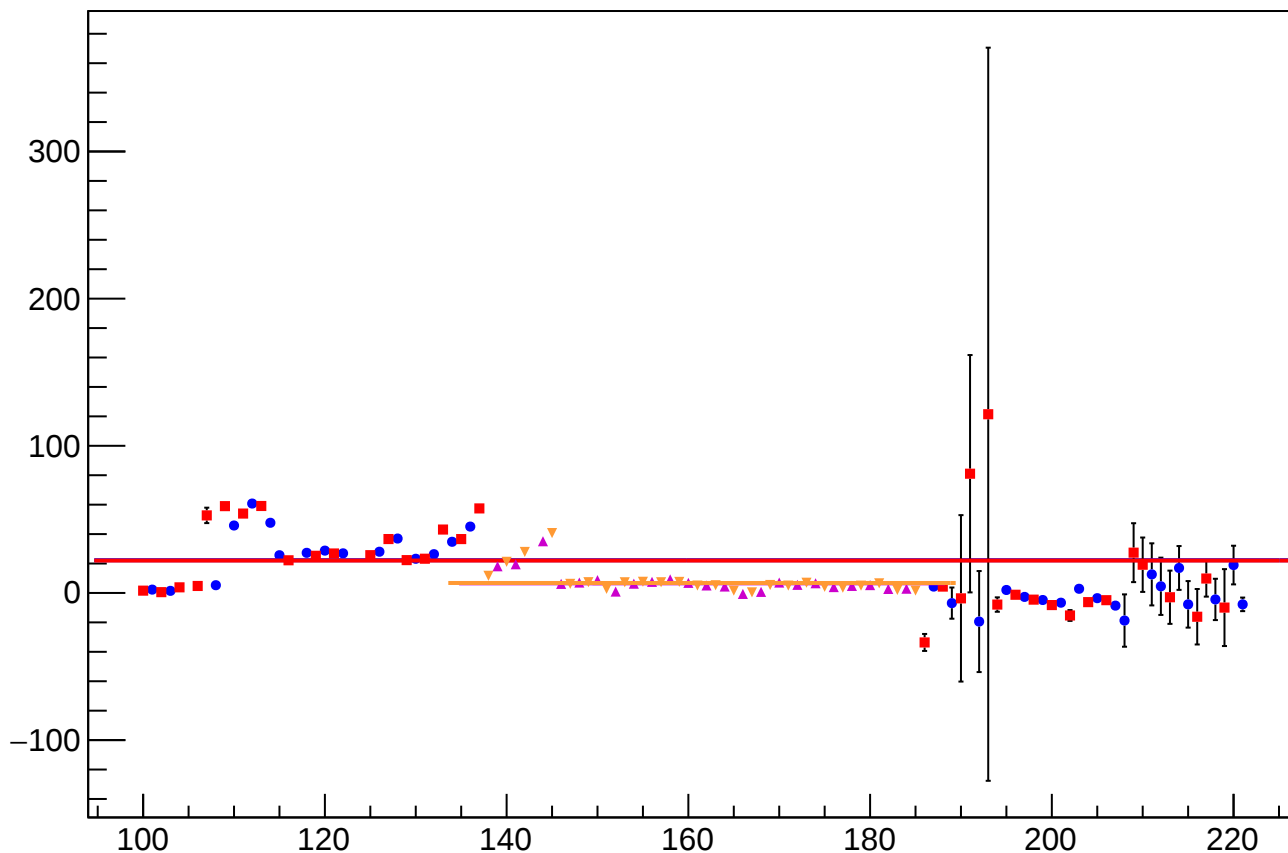
Right: 3.948 $\pm$ 0.153 χ^2 /NDF: 850.1/69

In: 2.309 $\pm$ 0.123 χ^2 /NDF:677.5/56

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:646.5/59

All: 2.428 $\pm$ 0.087 χ^2 /NDF: 1325.8/116

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.250+/-0.368 χ^2 /NDF: 2750.8/33

Left Out: 6.779+/-0.191 χ^2 /NDF:1297.7/23

Right Out: 22.025+/-0.349 χ^2 /NDF: 3667.8/35

Left In: 6.532+/-0.190 χ^2 /NDF:1018.2/22

Left: 6.655+/-0.135 χ^2 /NDF: 2316.7/46

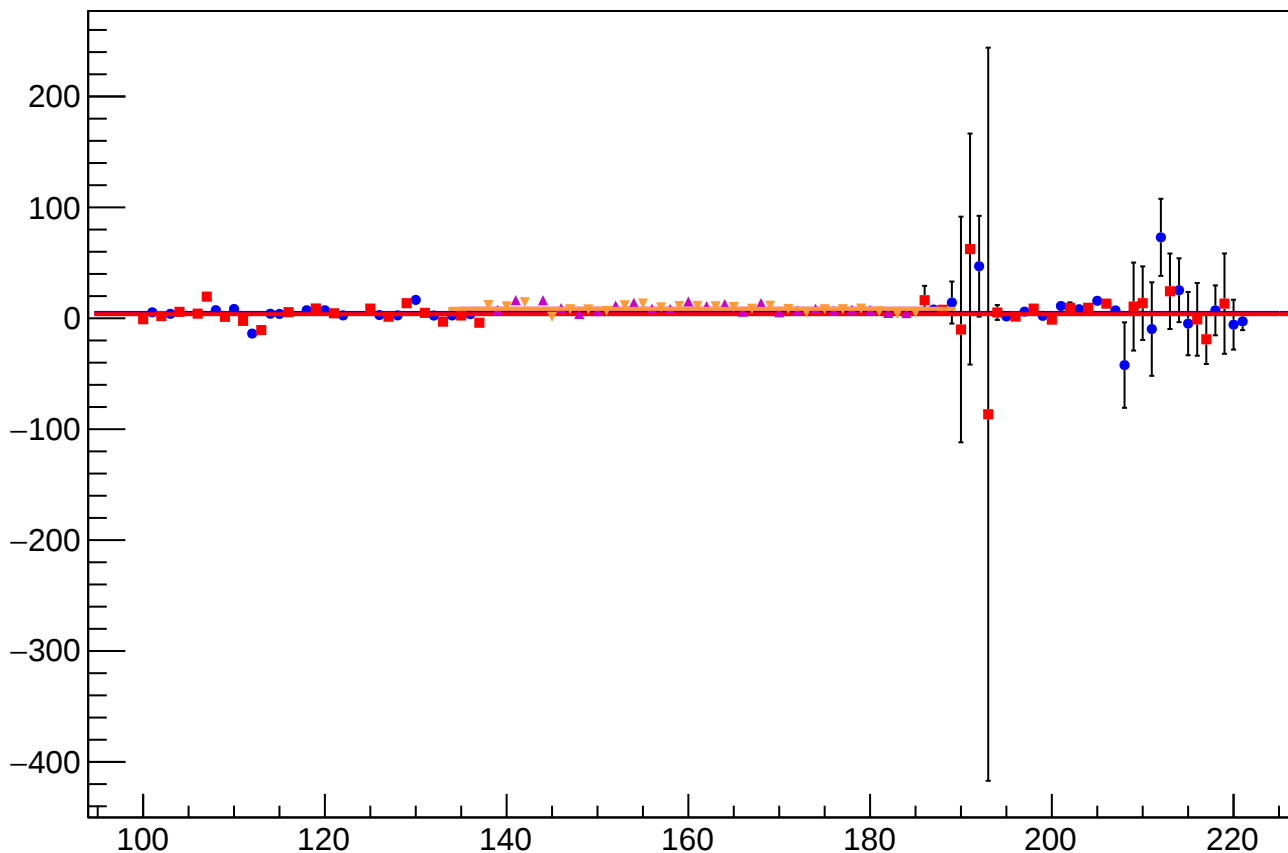
Right: 22.131+/-0.253 χ^2 /NDF: 6418.8/69

In: 9.844+/-0.169 χ^2 /NDF:5206.9/56

Out: 10.306+/-0.168 χ^2 /NDF:6435.2/59

All: 10.077+/-0.119 χ^2 /NDF: 11645.9/116

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.840 $\pm$ 0.250 χ^2 /NDF: 566.1/33

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.697 $\pm$ 0.250 χ^2 /NDF: 590.5/35

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

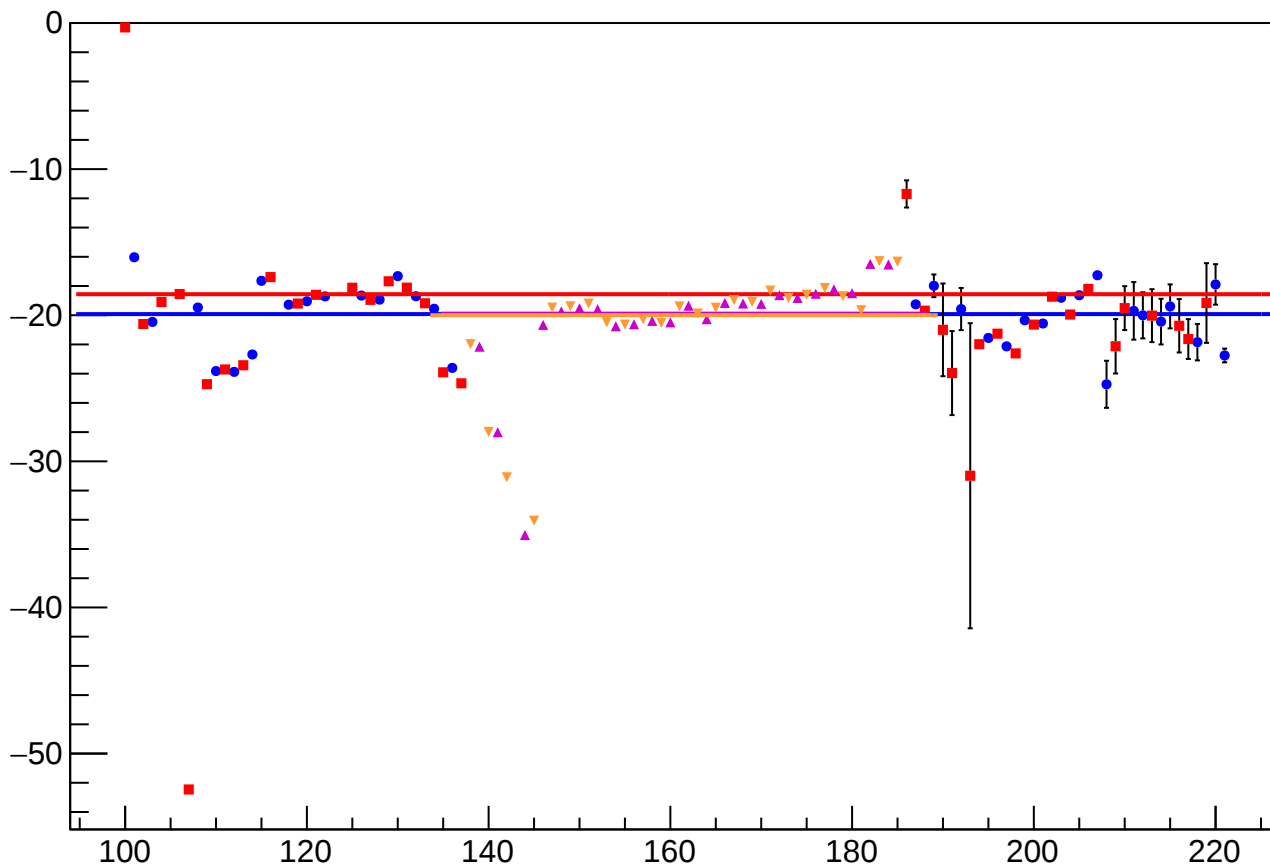
Right: 4.270 $\pm$ 0.177 χ^2 /NDF: 1167.1/69

In: 7.398 $\pm$ 0.141 χ^2 /NDF:1161.6/56

Out: 7.054 $\pm$ 0.140 χ^2 /NDF:1098.4/59

All: 7.226 $\pm$ 0.099 χ^2 /NDF: 2263.0/116

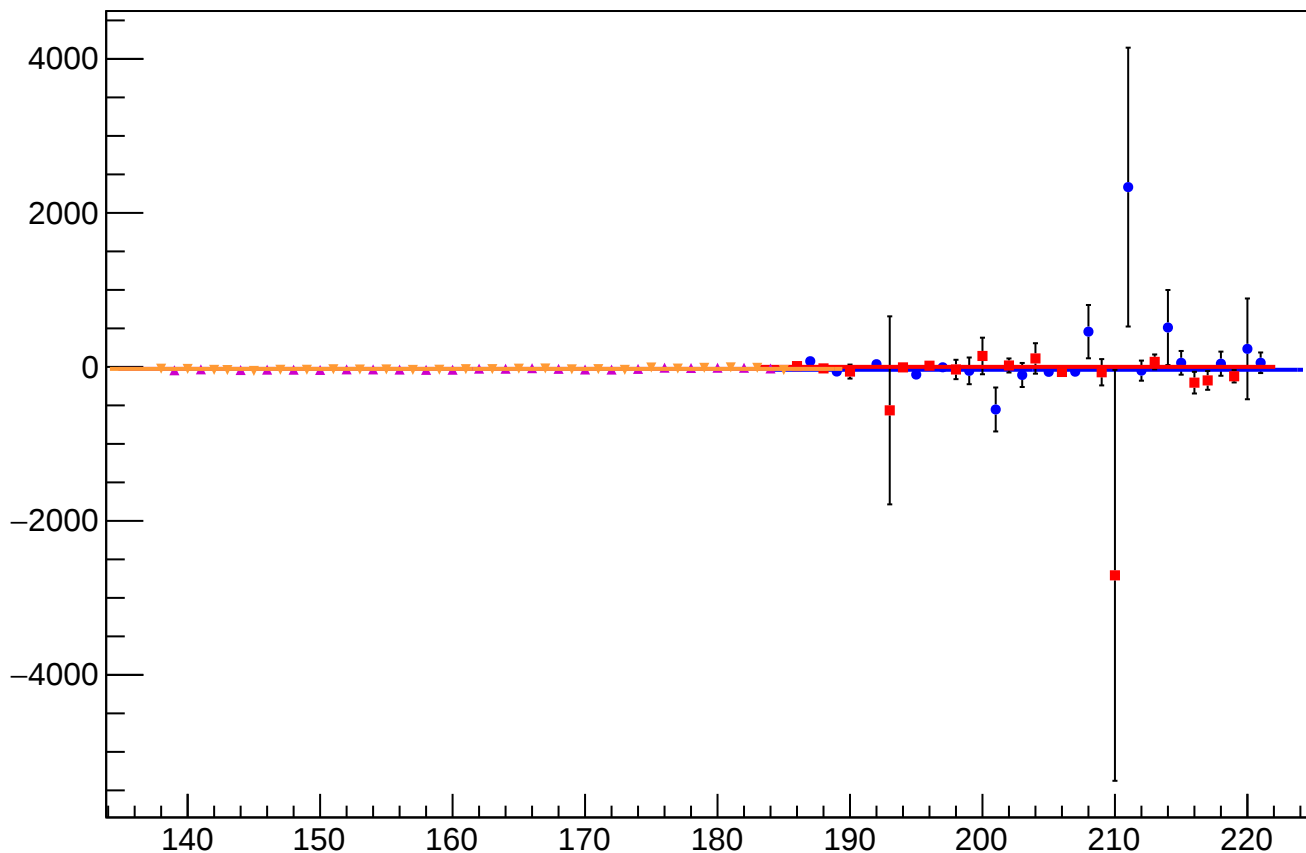
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.923 ± 0.015 $\chi^2/\text{NDF}: 27138.2/33$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.560 ± 0.014 $\chi^2/\text{NDF}: 303735.3/35$
 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: -19.207 ± 0.010 $\chi^2/\text{NDF}: 335312.8/69$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171197.2/56$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483606.5/59$
 All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655420.4/116$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

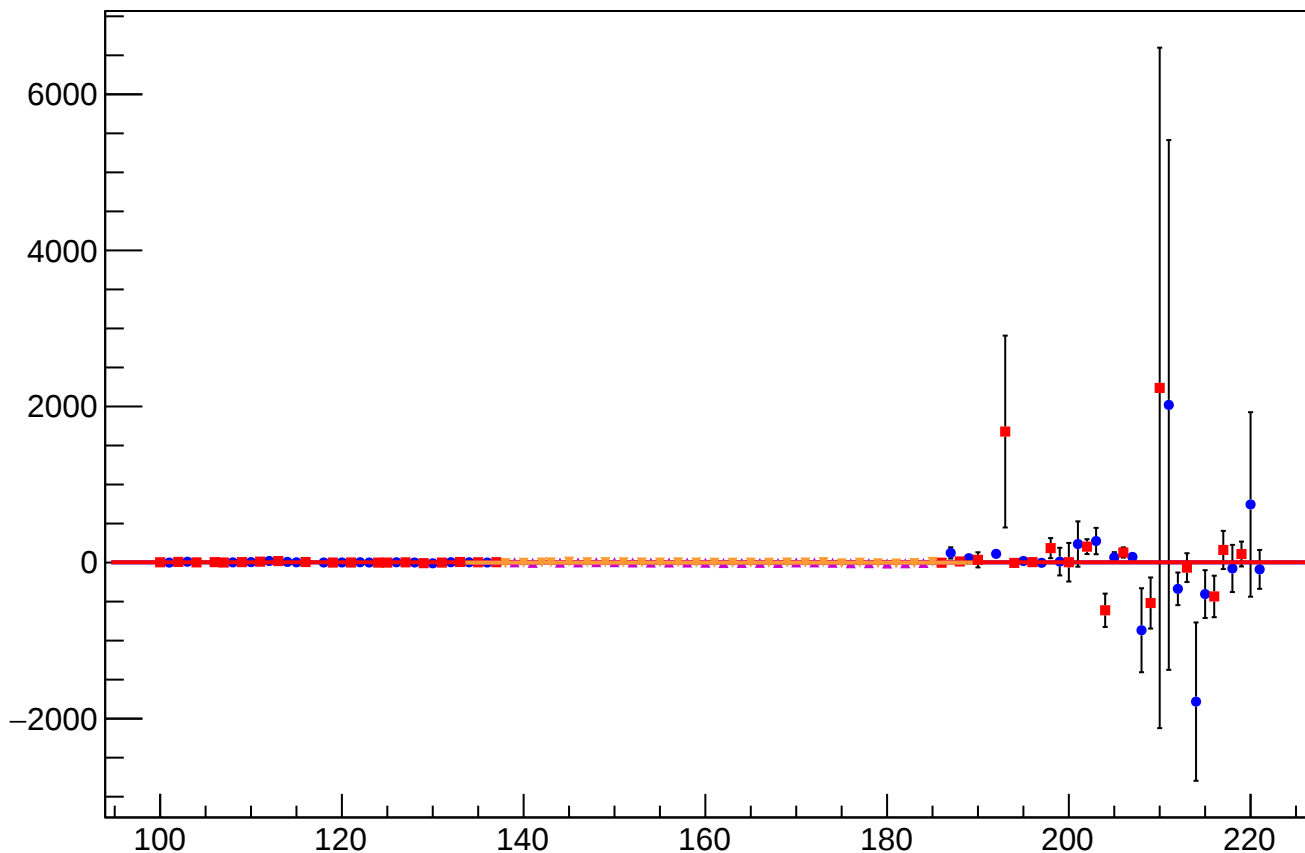


Right In: -37.422 ± 12.829 χ^2/NDF : 22.3/17
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 0.535 ± 8.012 χ^2/NDF : 13.8/16
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -10.115 ± 6.795 χ^2/NDF : 42.4/34
 In: -26.055 ± 0.195 χ^2/NDF : 3302.6/40
 Out: -25.869 ± 0.192 χ^2/NDF : 4182.7/41

All: -25.961 ± 0.137 χ^2/NDF : 7485.7/82

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.6/34

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 296.2/35

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

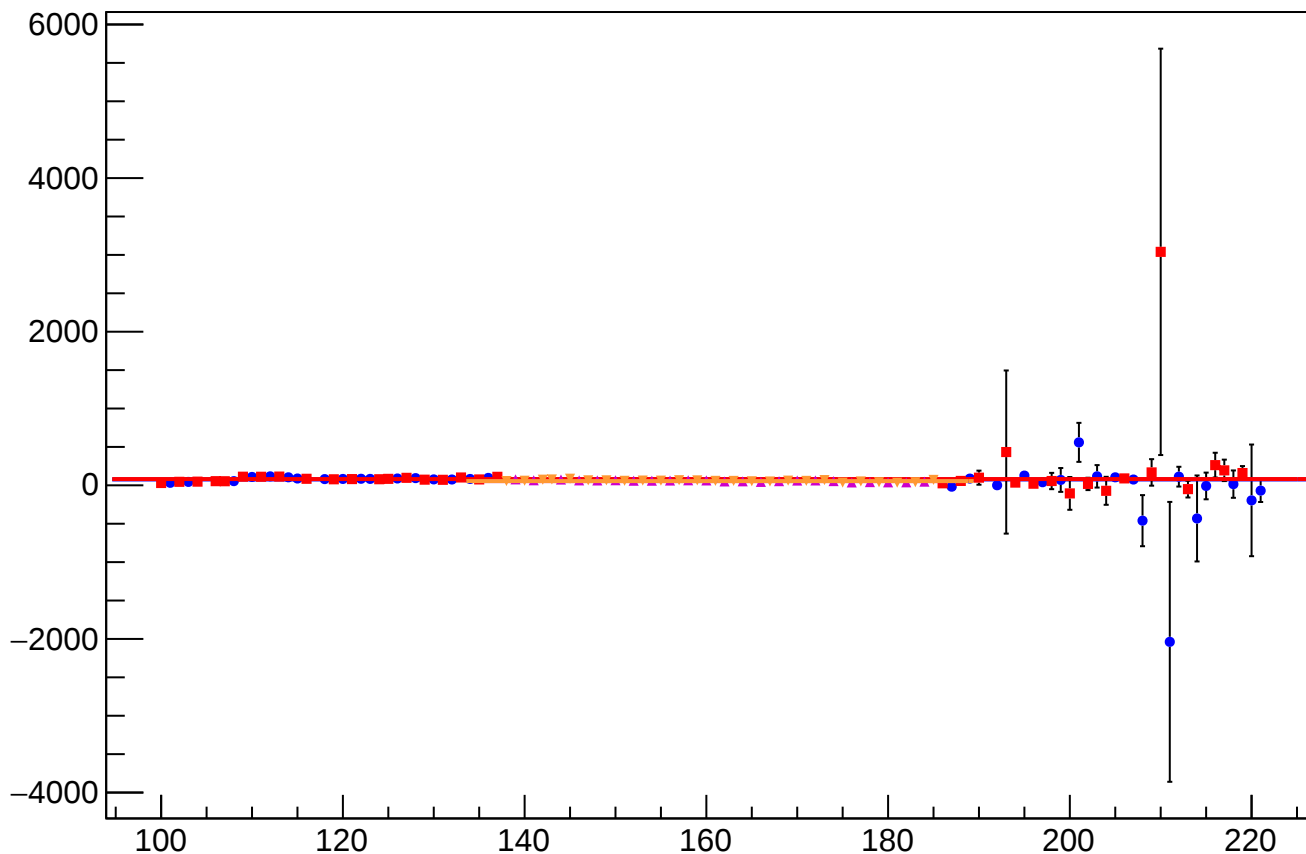
Right: 3.072+/-0.227 χ^2/NDF : 628.4/70

In: -0.242+/-0.136 χ^2/NDF : 1482.7/57

Out: 0.075+/-0.133 χ^2/NDF : 1766.2/60

All: -0.081+/-0.095 χ^2/NDF : 3251.7/118

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.528 $\pm$ 0.576 χ^2 /NDF: 2275.6/34

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.495 $\pm$ 0.590 χ^2 /NDF: 1638.3/35

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

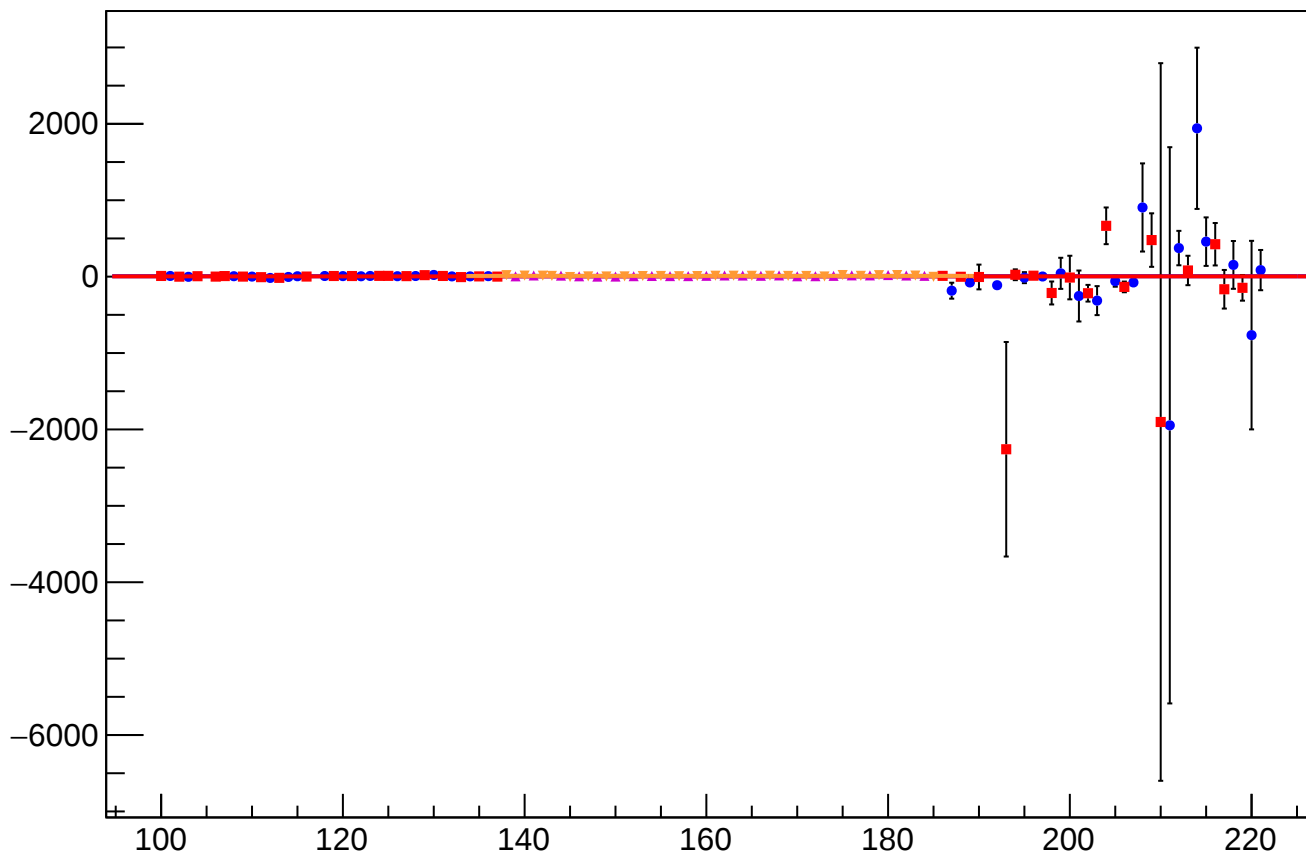
Right: 78.951 $\pm$ 0.412 χ^2 /NDF: 3950.2/70

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.9/57

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8026.0/60

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15253.0/118

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 416.2/34

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 447.8/35

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

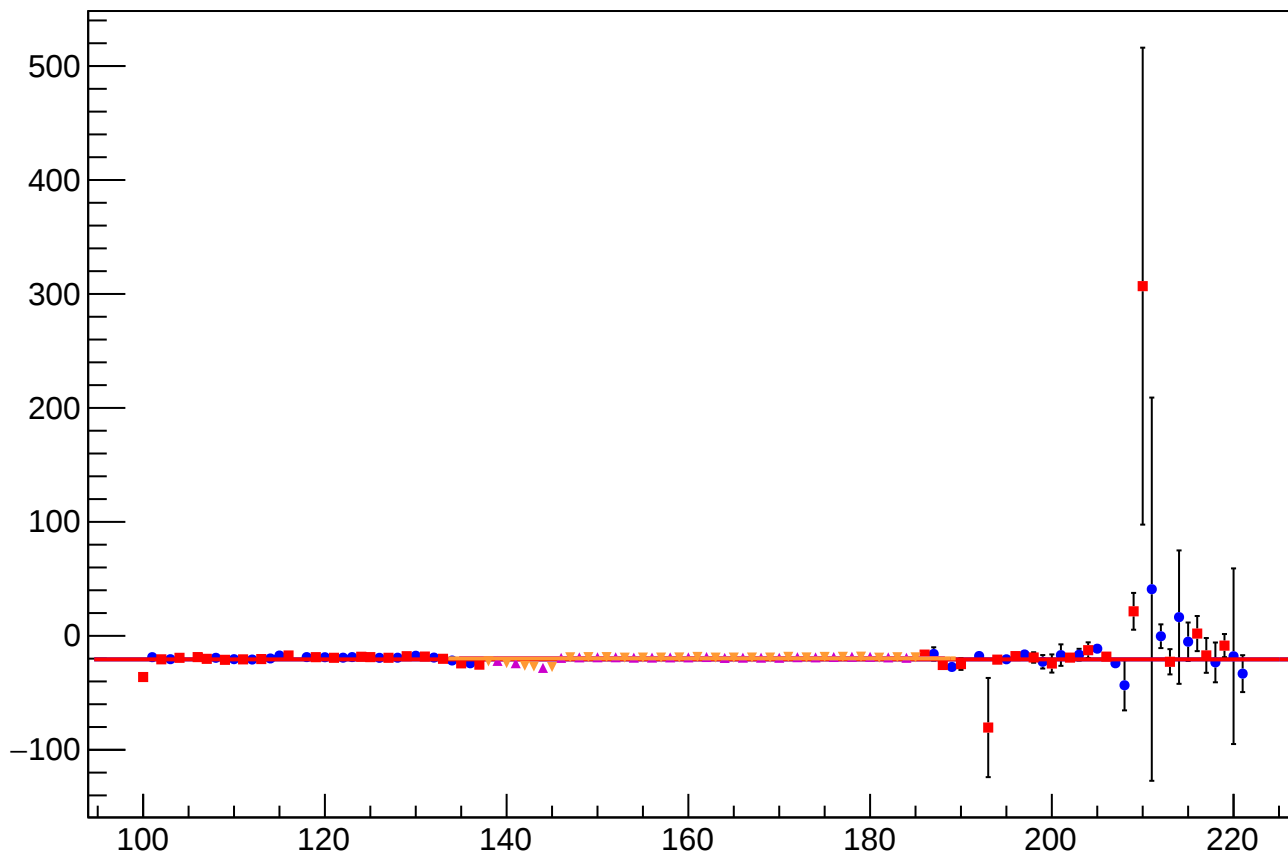
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 876.3/70

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.9/57

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2122.2/60

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3819.8/118

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644+/-0.019 χ^2/NDF : 12460.9/34

Left Out: -19.767+/-0.008 χ^2/NDF : 91617.3/24

Right Out: -20.638+/-0.019 χ^2/NDF : 13822.8/35

Left In: -19.435+/-0.008 χ^2/NDF : 53170.9/22

Left: -19.603+/-0.006 χ^2/NDF : 145665.0/47

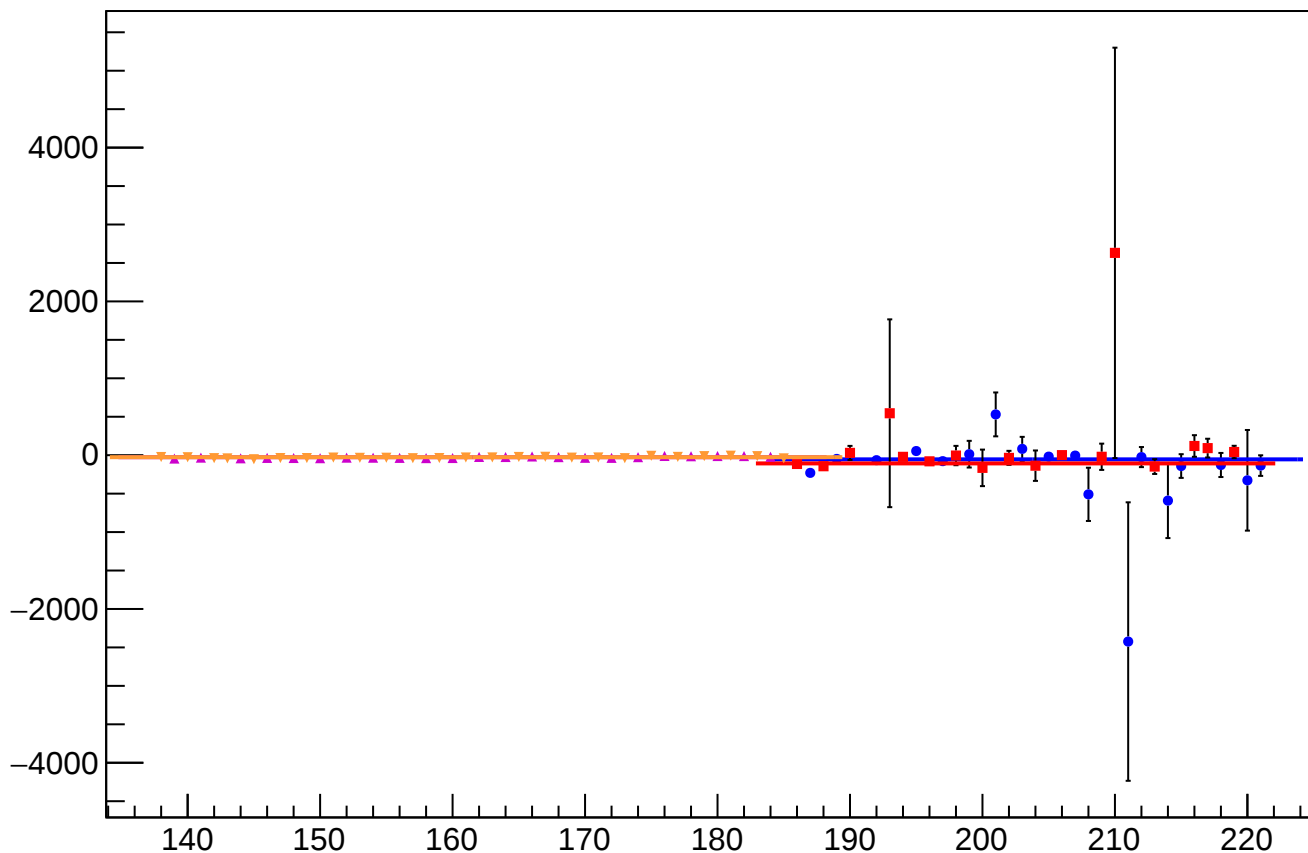
Right: -20.641+/-0.014 χ^2/NDF : 26283.7/70

In: -19.610+/-0.007 χ^2/NDF : 68969.1/57

Out: -19.890+/-0.007 χ^2/NDF : 107162.0/60

All: -19.751+/-0.005 χ^2/NDF : 176859.6/118

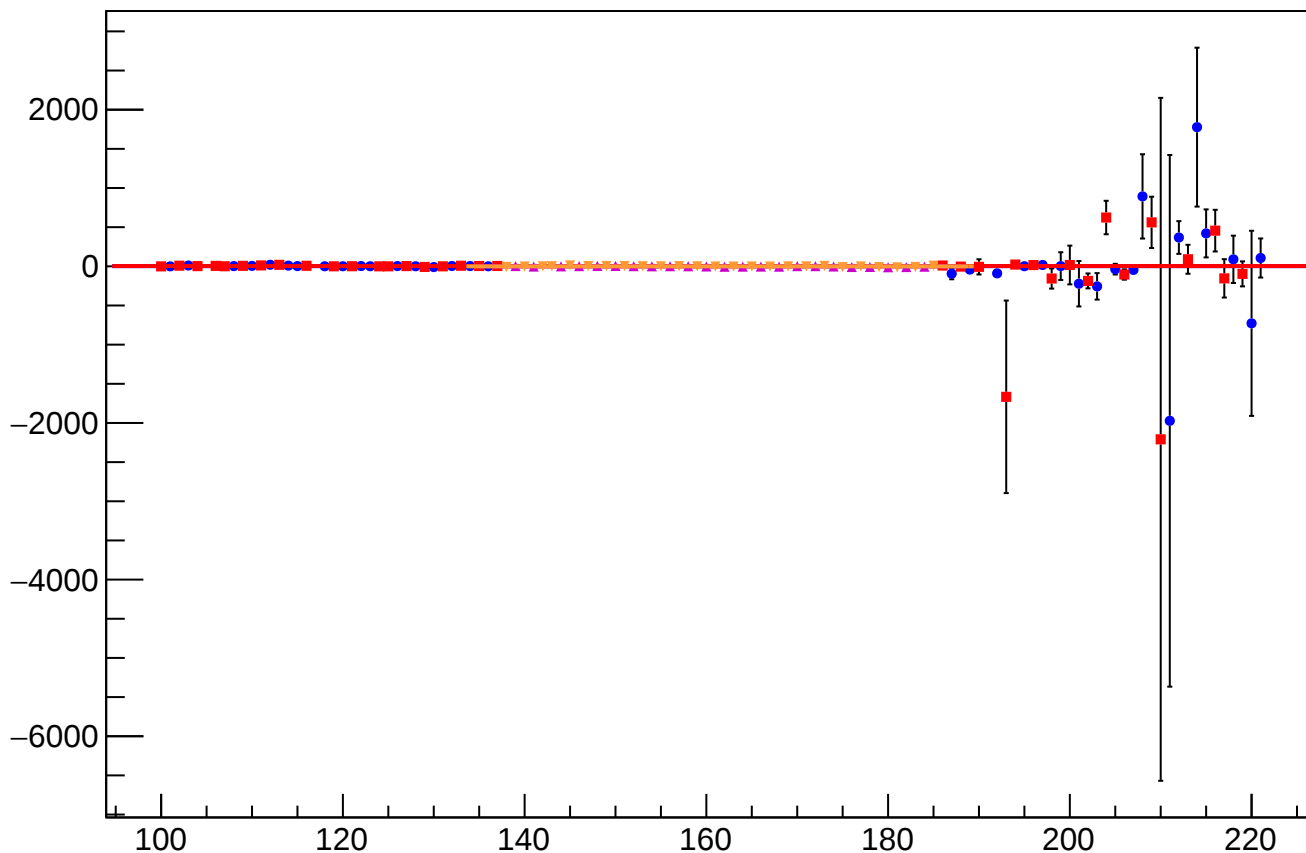
reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -54.215 ± 12.838 χ^2/NDF : 33.4/17
 Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24
 Right Out: -106.957 ± 8.017 χ^2/NDF : 25.8/16
 Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47
 Right: -92.159 ± 6.800 χ^2/NDF : 71.3/34
 In: -26.053 ± 0.195 χ^2/NDF : 3284.9/40
 Out: -25.945 ± 0.192 χ^2/NDF : 4255.5/41
 All: -25.998 ± 0.137 χ^2/NDF : 7540.6/82

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 χ^2/NDF : 317.2/34

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593 ± 0.318 χ^2/NDF : 306.1/35

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

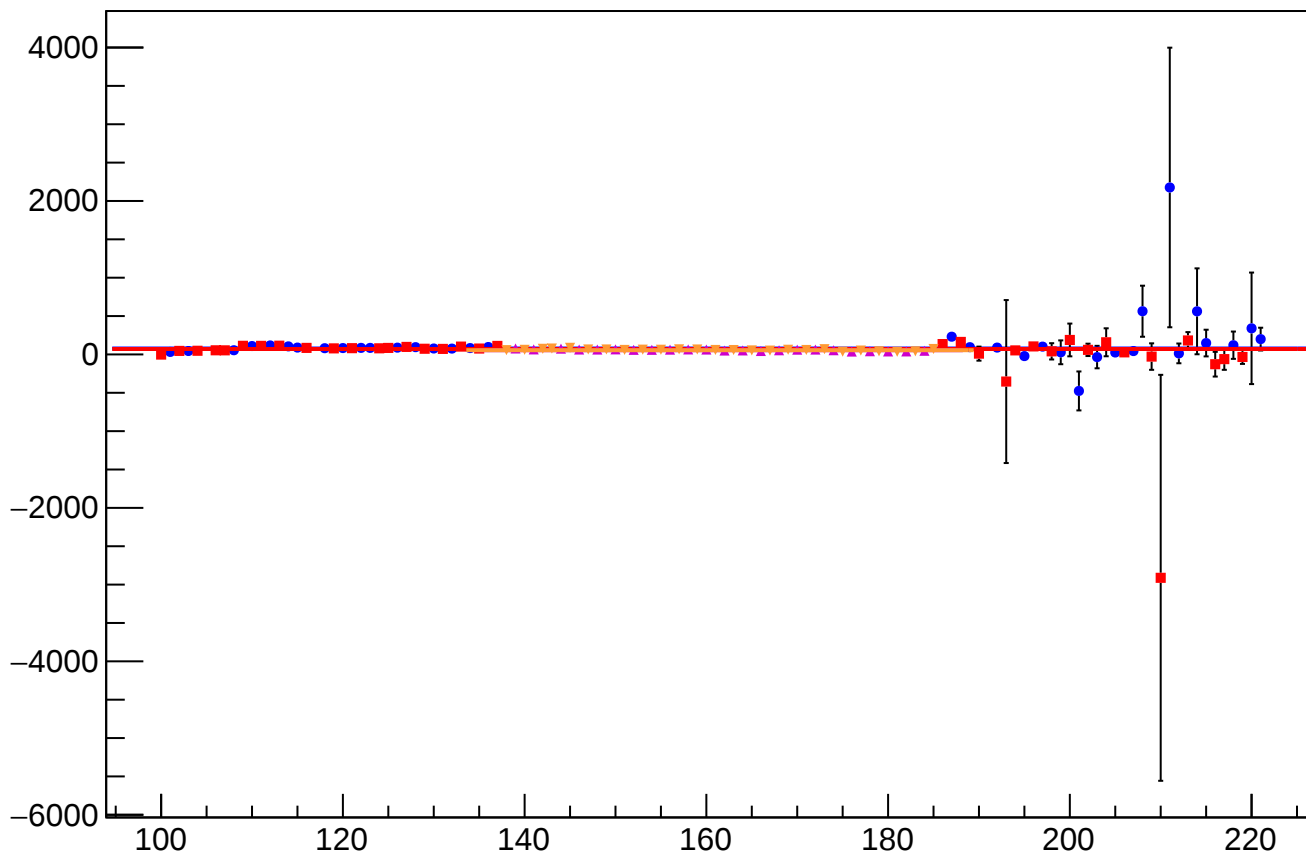
Right: 3.011 ± 0.224 χ^2/NDF : 629.9/70

In: -0.193 ± 0.136 χ^2/NDF : 1509.3/57

Out: 0.136 ± 0.133 χ^2/NDF : 1760.1/60

All: -0.025 ± 0.095 χ^2/NDF : 3272.5/118

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.712 $\pm$ 0.576 χ^2 /NDF: 2301.8/34

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.742 $\pm$ 0.549 χ^2 /NDF: 4498.8/35

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

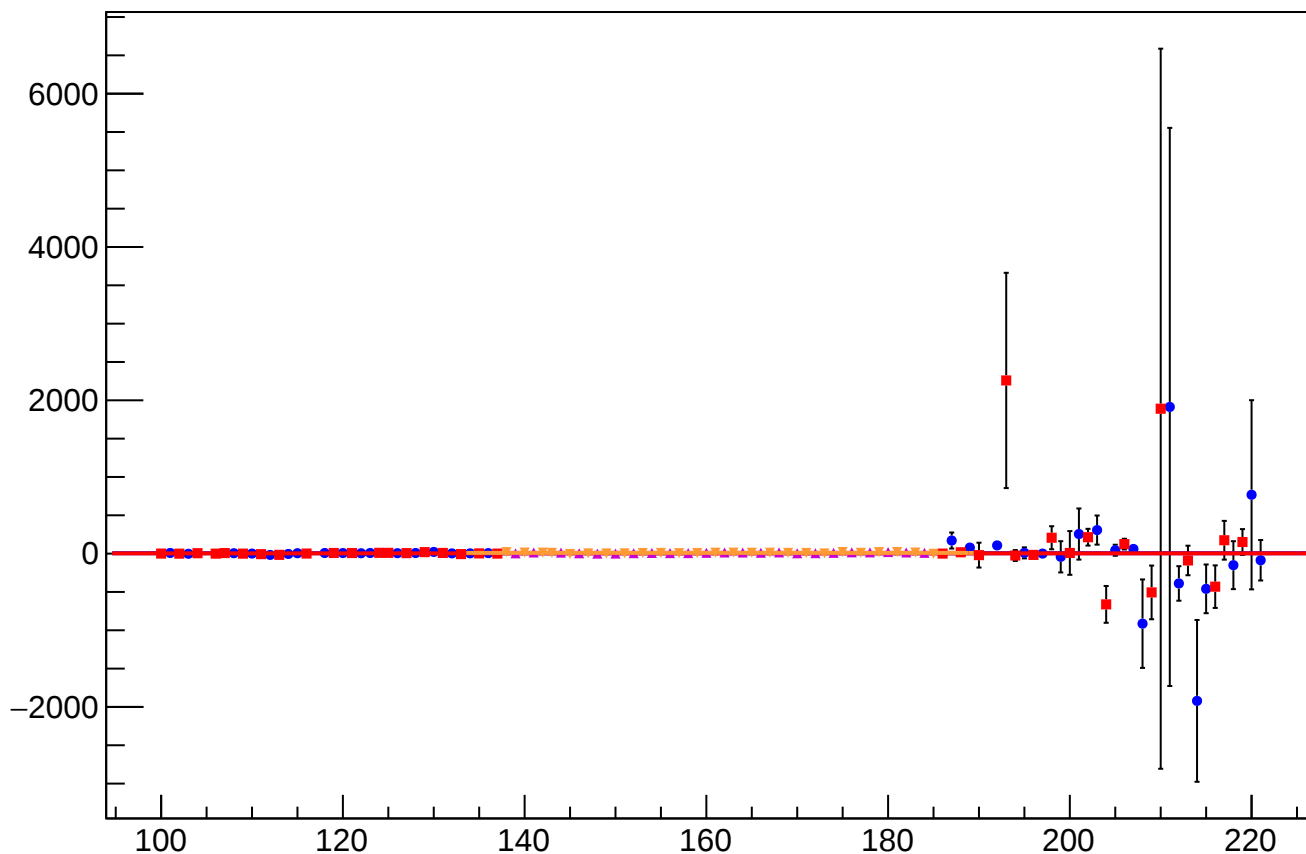
Right: 73.579 $\pm$ 0.397 χ^2 /NDF: 6856.9/70

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7230.2/57

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9782.6/60

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17016.2/118

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443+/-0.361 χ^2/NDF : 410.4/34

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.283+/-0.365 χ^2/NDF : 450.4/35

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

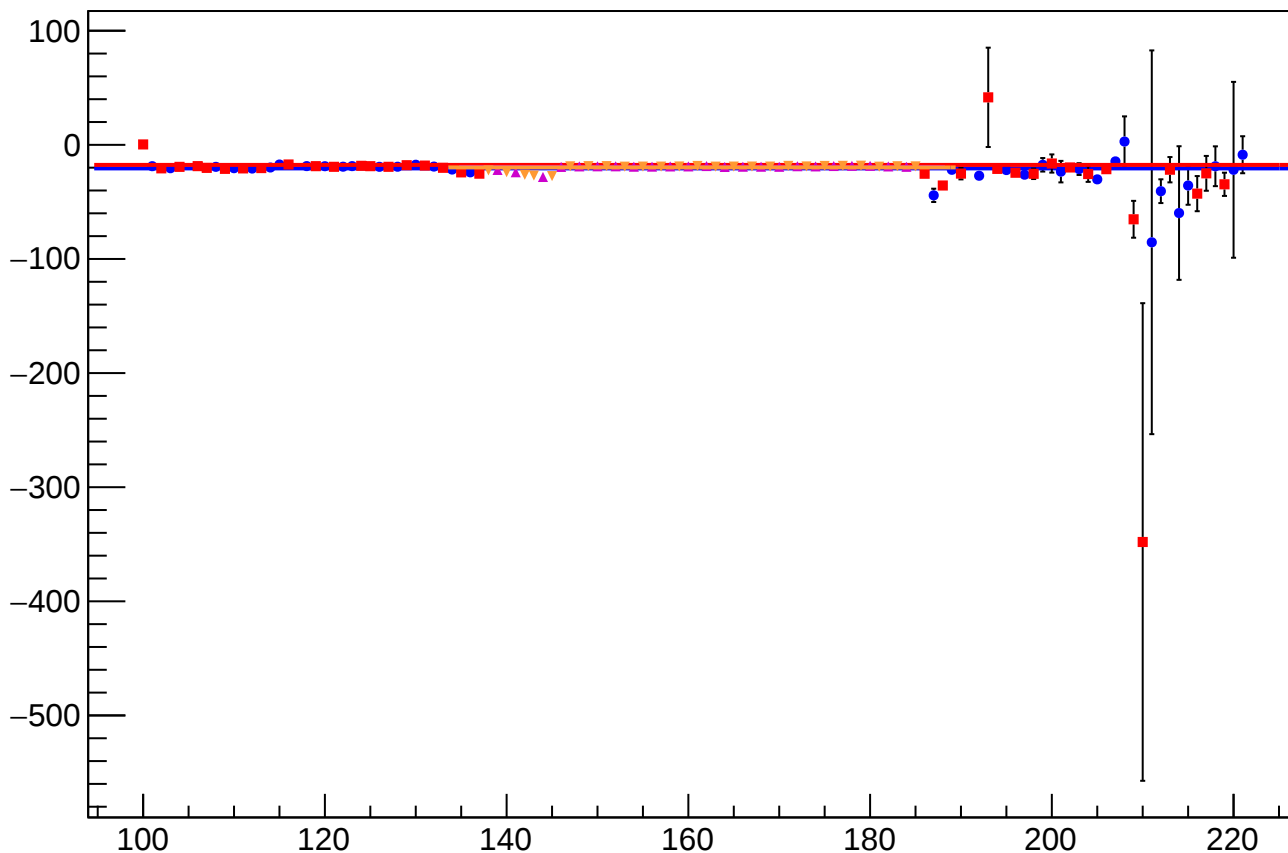
Right: 4.376+/-0.257 χ^2/NDF : 878.5/70

In: 8.945+/-0.155 χ^2/NDF :1716.9/57

Out: 8.562+/-0.153 χ^2/NDF :2144.4/60

All: 8.750+/-0.109 χ^2/NDF : 3864.4/118

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647+/-0.019 χ^2/NDF : 12521.5/34

Left Out: -19.775+/-0.008 χ^2/NDF : 91510.1/24

Right Out: -17.575+/-0.018 χ^2/NDF : 178458.6/35

Left In: -19.445+/-0.008 χ^2/NDF : 53124.1/22

Left: -19.611+/-0.006 χ^2/NDF : 145502.5/47

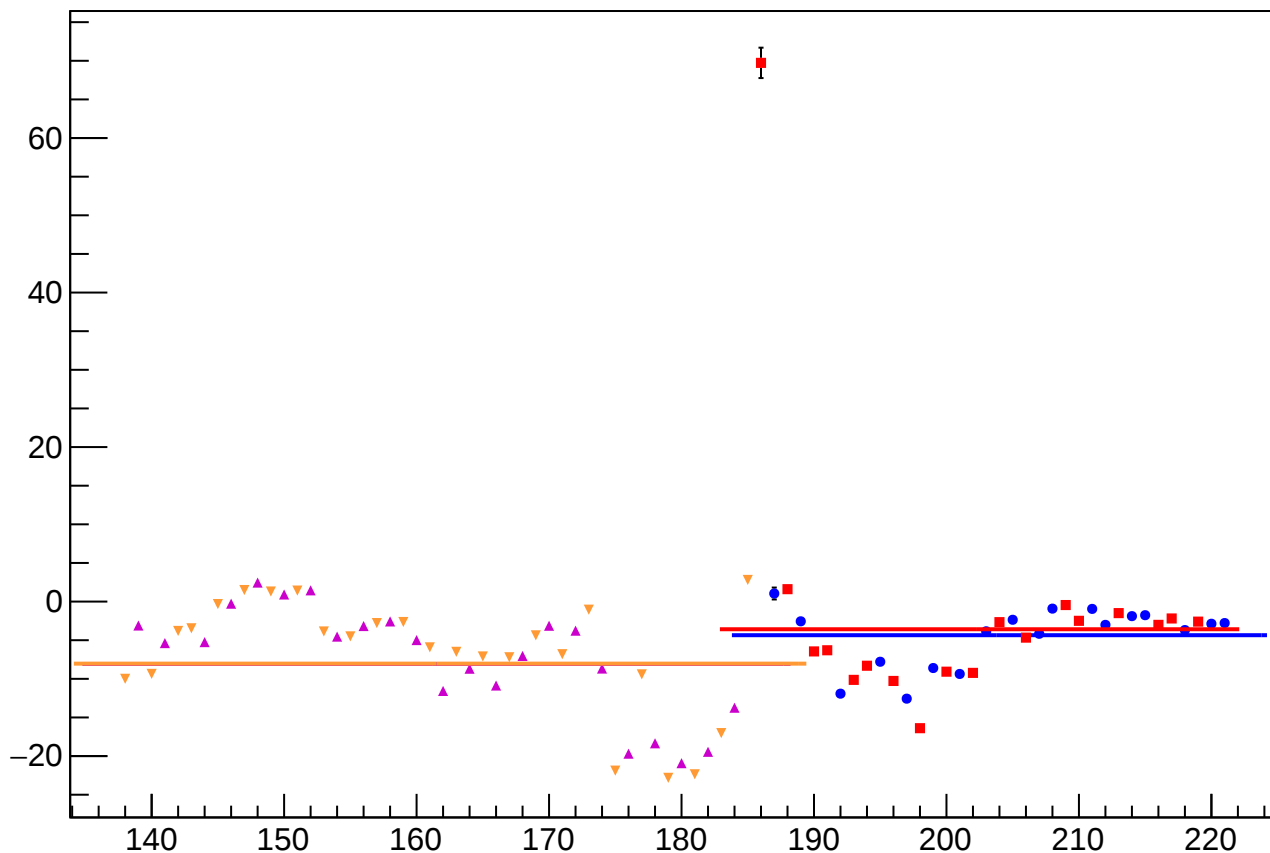
Right: -19.003+/-0.013 χ^2/NDF : 204449.6/70

In: -19.618+/-0.007 χ^2/NDF : 68943.4/57

Out: -19.422+/-0.007 χ^2/NDF : 282444.3/60

All: -19.518+/-0.005 χ^2/NDF : 351750.8/118

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

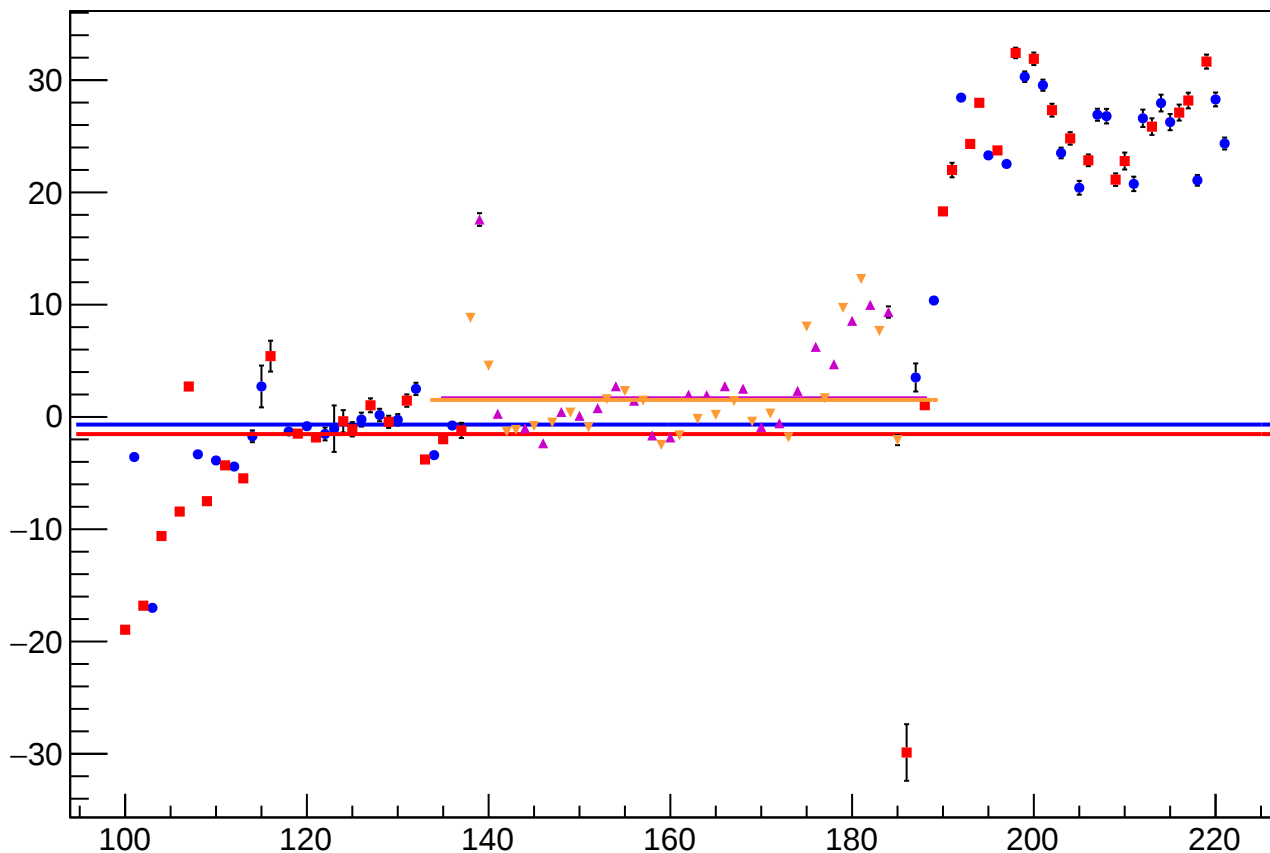


Right In: -4.352 ± 0.089 $\chi^2/\text{NDF}: 1617.9/17$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.581 ± 0.086 $\chi^2/\text{NDF}: 4172.9/17$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -3.957 ± 0.062 $\chi^2/\text{NDF}: 5829.6/35$
 In: -6.597 ± 0.056 $\chi^2/\text{NDF}: 13226.2/40$
 Out: -6.261 ± 0.055 $\chi^2/\text{NDF}: 18338.0/42$

All: -6.425 ± 0.039 $\chi^2/\text{NDF}: 31582.8/83$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.678 ± 0.050 $\chi^2/\text{NDF}: 57453.0/34$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.527 ± 0.053 $\chi^2/\text{NDF}: 64315.6/36$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

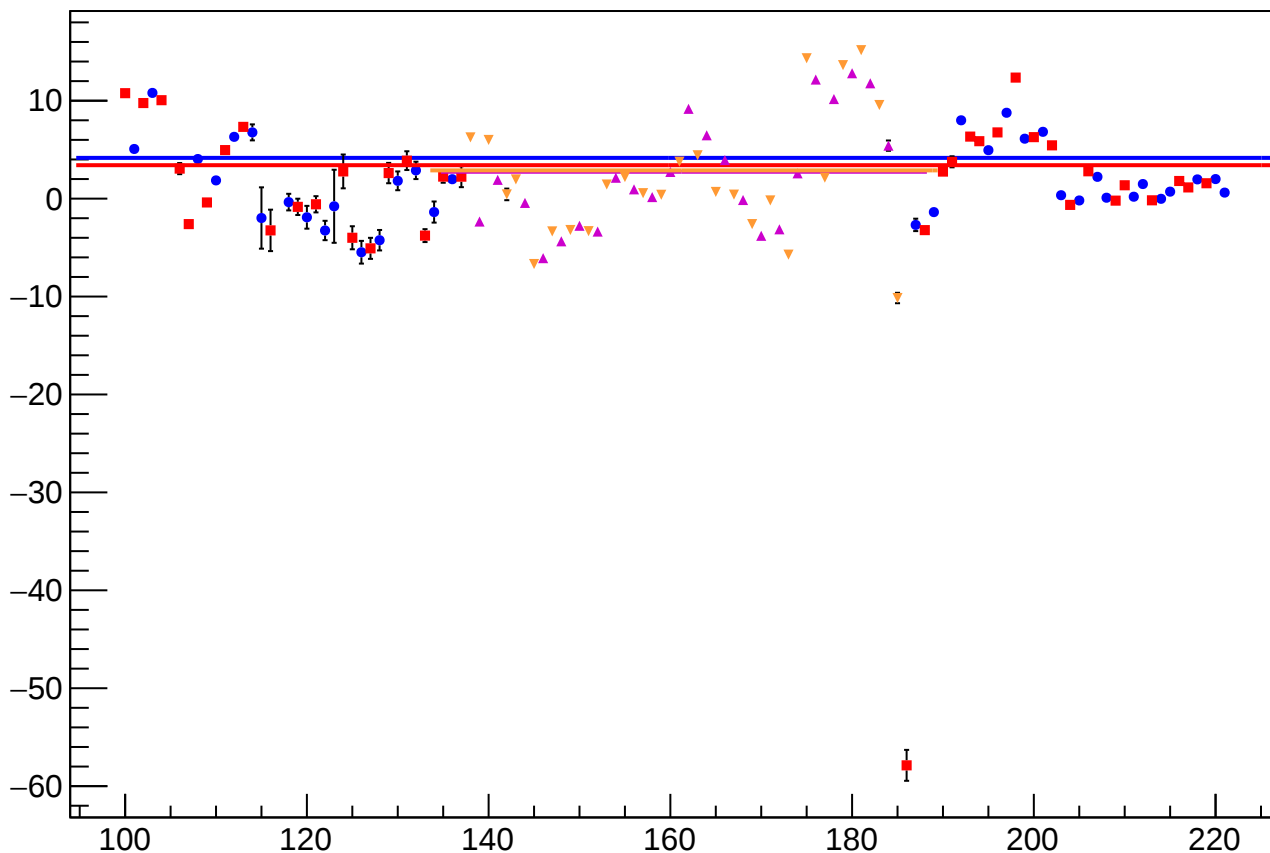
Right: -1.081 ± 0.036 $\chi^2/\text{NDF}: 121904.0/71$

In: 0.353 ± 0.038 $\chi^2/\text{NDF}: 62444.3/57$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 70775.7/61$

All: 0.155 ± 0.027 $\chi^2/\text{NDF}: 133276.2/119$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.163 $\pm$ 0.062 χ^2 /NDF: 3509.3/34

Left Out: 2.884 $\pm$ 0.070 χ^2 /NDF:8893.2/24

Right Out: 3.415 $\pm$ 0.061 χ^2 /NDF: 8149.6/36

Left In: 2.745 $\pm$ 0.071 χ^2 /NDF:7183.1/22

Left: 2.816 $\pm$ 0.050 χ^2 /NDF: 16078.2/47

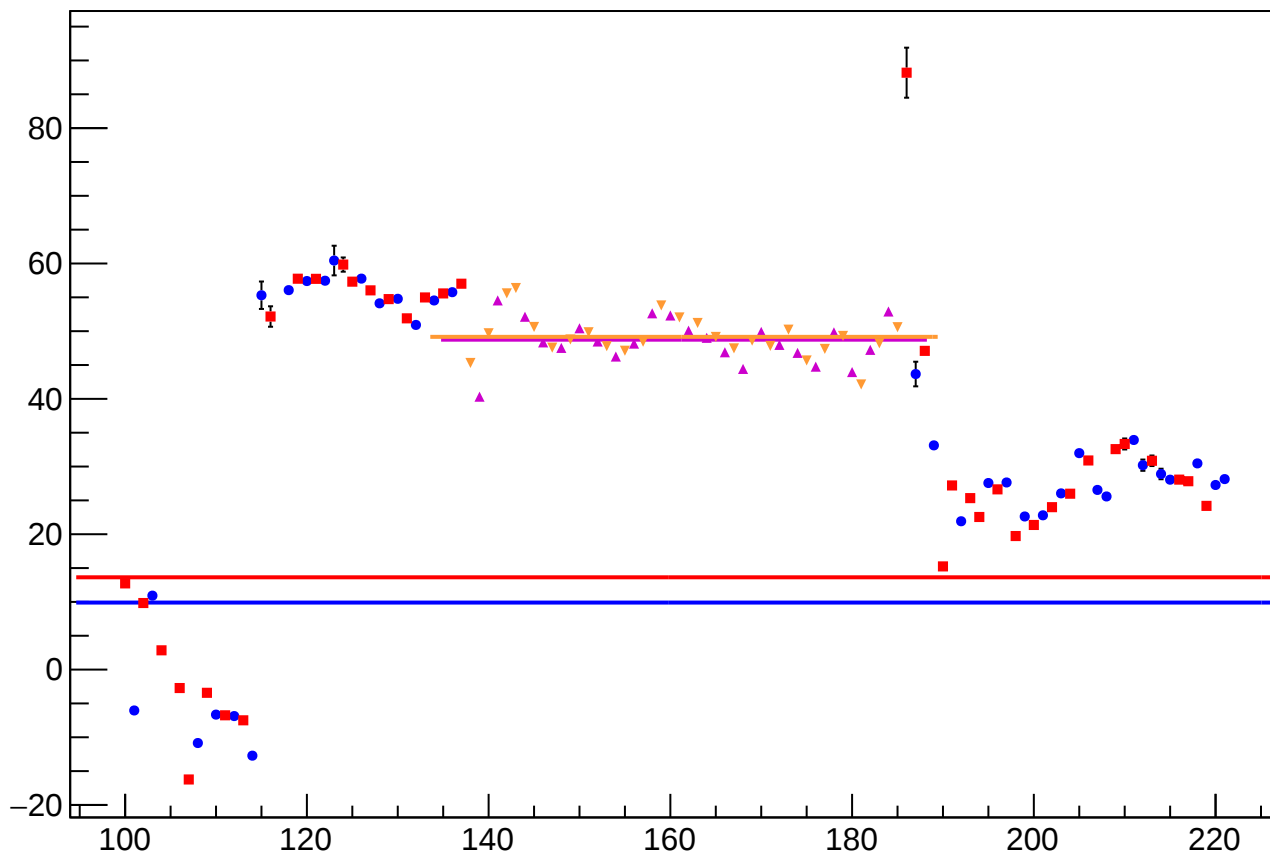
Right: 3.781 $\pm$ 0.044 χ^2 /NDF: 11732.2/71

In: 3.549 $\pm$ 0.047 χ^2 /NDF:10915.5/57

Out: 3.186 $\pm$ 0.046 χ^2 /NDF:17075.3/61

All: 3.364 $\pm$ 0.033 χ^2 /NDF: 28021.1/119

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.903+/-0.059 χ^2/NDF : 139757.3/34

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.635+/-0.063 χ^2/NDF : 138810.7/36

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

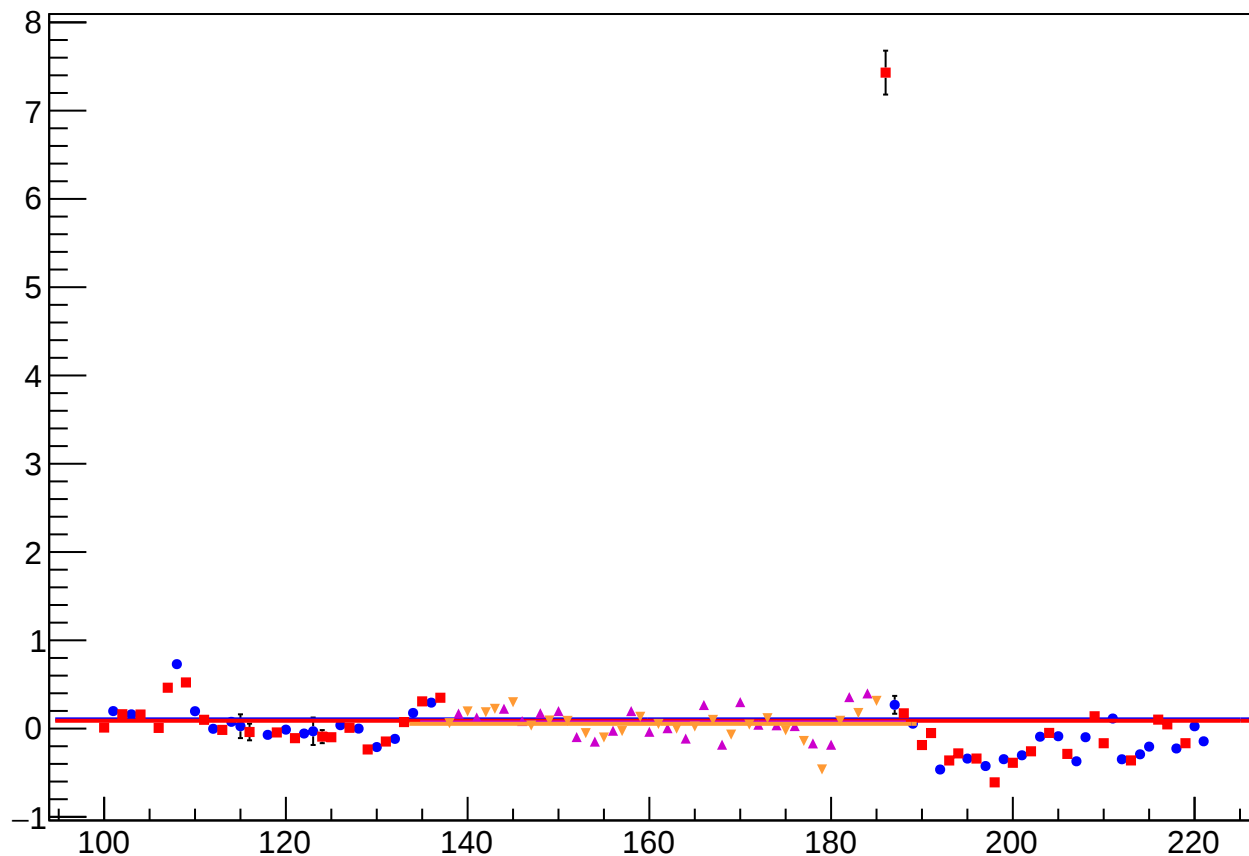
Right: 11.658+/-0.043 χ^2/NDF : 280454.7/71

In: 27.794+/-0.043 χ^2/NDF :341973.0/57

Out: 31.628+/-0.044 χ^2/NDF :304505.0/61

All: 29.682+/-0.031 χ^2/NDF : 650342.3/119

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105+/-0.002 χ^2/NDF : 12056.6/34

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.089+/-0.002 χ^2/NDF : 11152.9/36

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

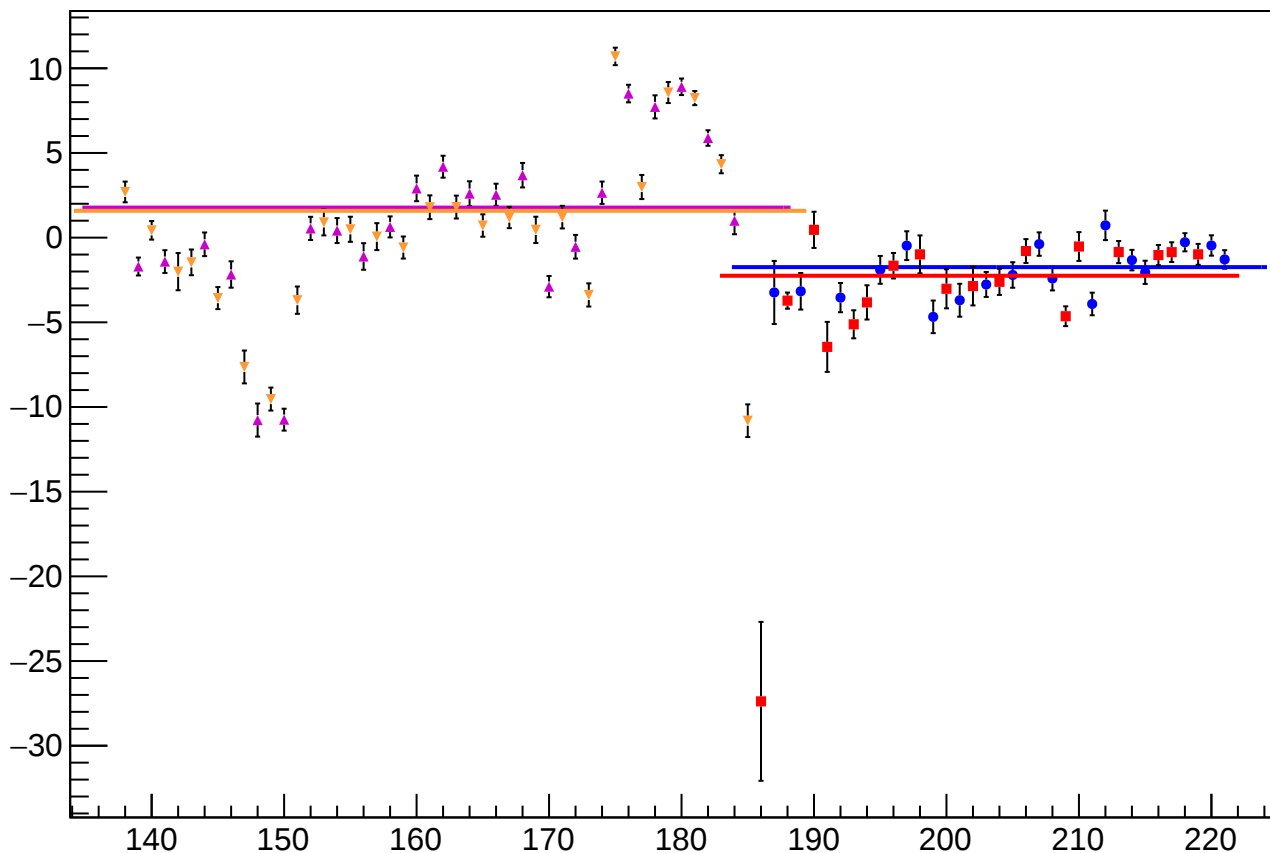
Right: 0.096+/-0.002 χ^2/NDF : 23231.2/71

In: 0.090+/-0.002 χ^2/NDF : 15373.4/57

Out: 0.074+/-0.002 χ^2/NDF : 13621.8/61

All: 0.082+/-0.001 χ^2/NDF : 29031.9/119

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.741 ± 0.173 χ^2/NDF : 61.5/17

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.250 ± 0.180 χ^2/NDF : 113.8/17

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

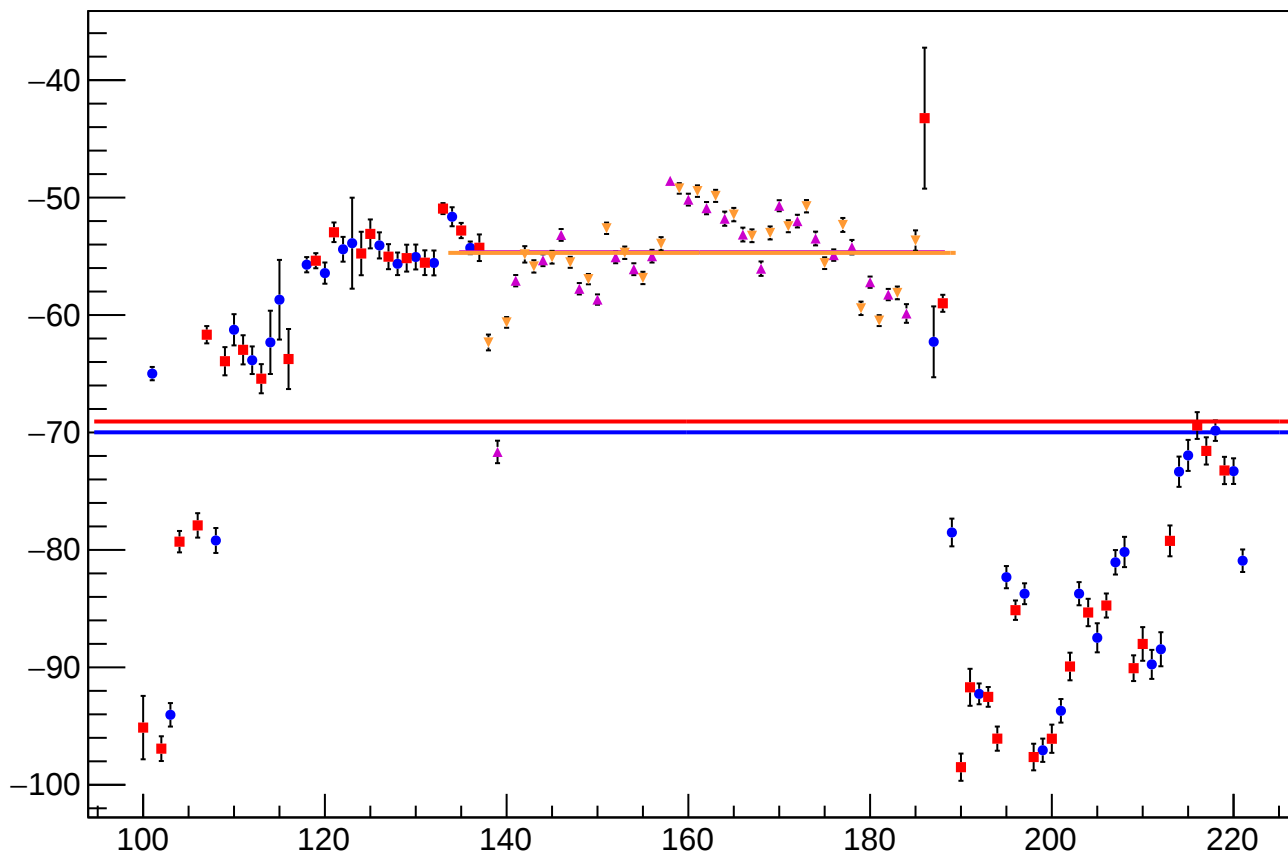
Right: -1.987 ± 0.125 χ^2/NDF : 179.4/35

In: 0.445 ± 0.107 χ^2/NDF : 1614.3/40

Out: 0.230 ± 0.107 χ^2/NDF : 1867.6/42

All: 0.337 ± 0.075 χ^2/NDF : 3483.9/83

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.987 ± 0.169 $\chi^2/\text{NDF}: 7480.7/34$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -69.066 ± 0.164 $\chi^2/\text{NDF}: 10393.1/36$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

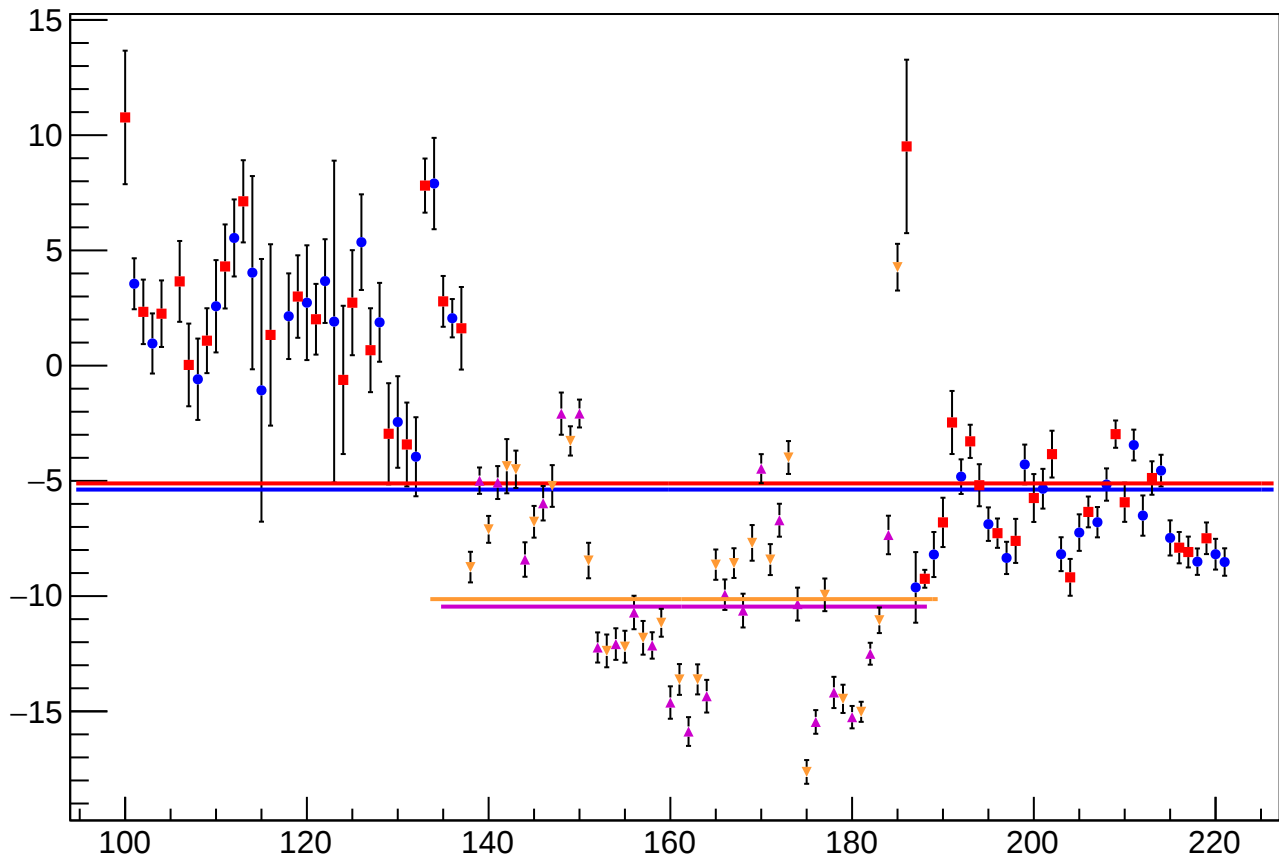
Right: -69.513 ± 0.118 $\chi^2/\text{NDF}: 17889.1/71$

In: -59.197 ± 0.092 $\chi^2/\text{NDF}: 14344.5/57$

Out: -58.919 ± 0.089 $\chi^2/\text{NDF}: 16932.7/61$

All: -59.053 ± 0.064 $\chi^2/\text{NDF}: 31281.9/119$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.378 ± 0.160 $\chi^2/\text{NDF}: 545.1/34$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -5.111 ± 0.158 $\chi^2/\text{NDF}: 722.0/36$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

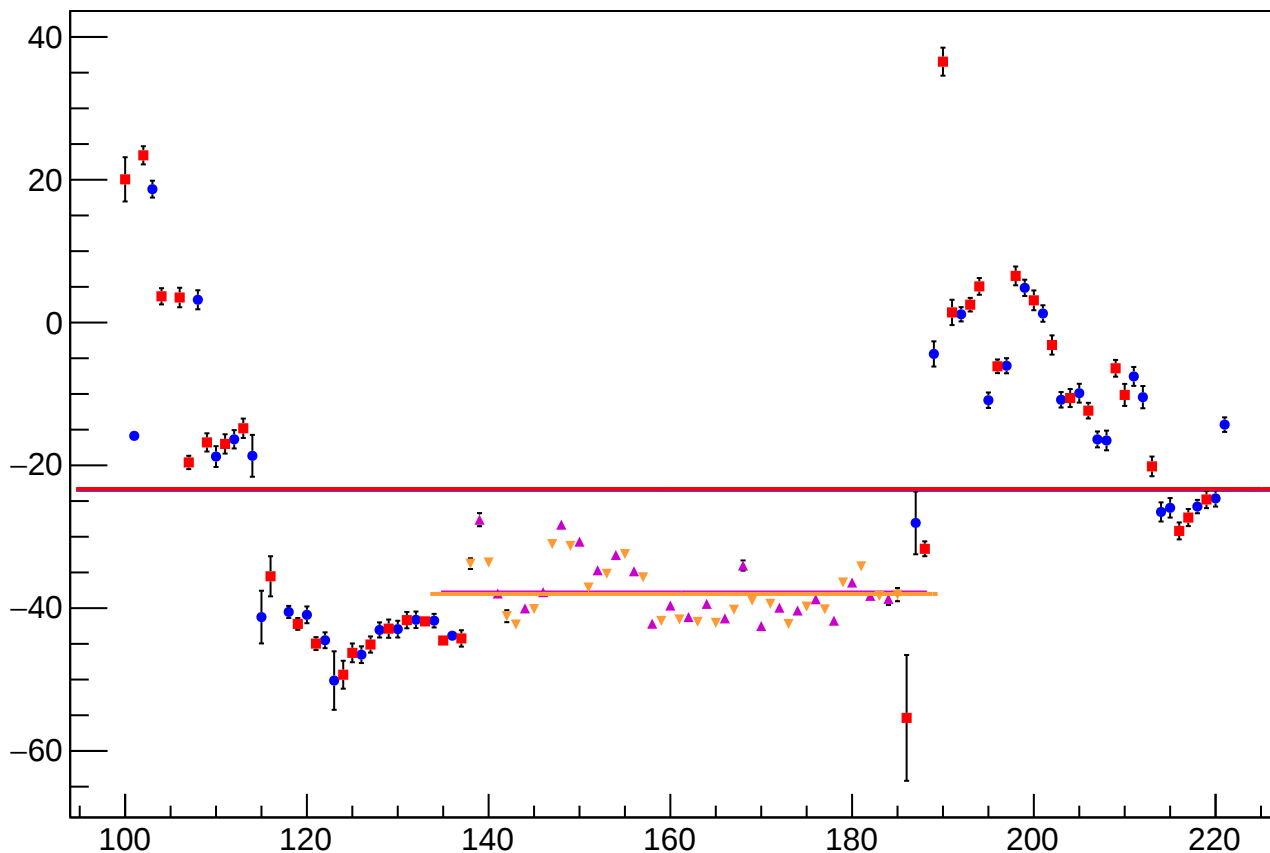
Right: -5.243 ± 0.112 $\chi^2/\text{NDF}: 1268.5/71$

In: -8.346 ± 0.103 $\chi^2/\text{NDF}: 2138.9/57$

Out: -8.060 ± 0.102 $\chi^2/\text{NDF}: 2366.9/61$

All: -8.201 ± 0.072 $\chi^2/\text{NDF}: 4509.7/119$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.417 ± 0.190 $\chi^2/\text{NDF}: 8757.8/34$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.314 ± 0.189 $\chi^2/\text{NDF}: 11929.9/36$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

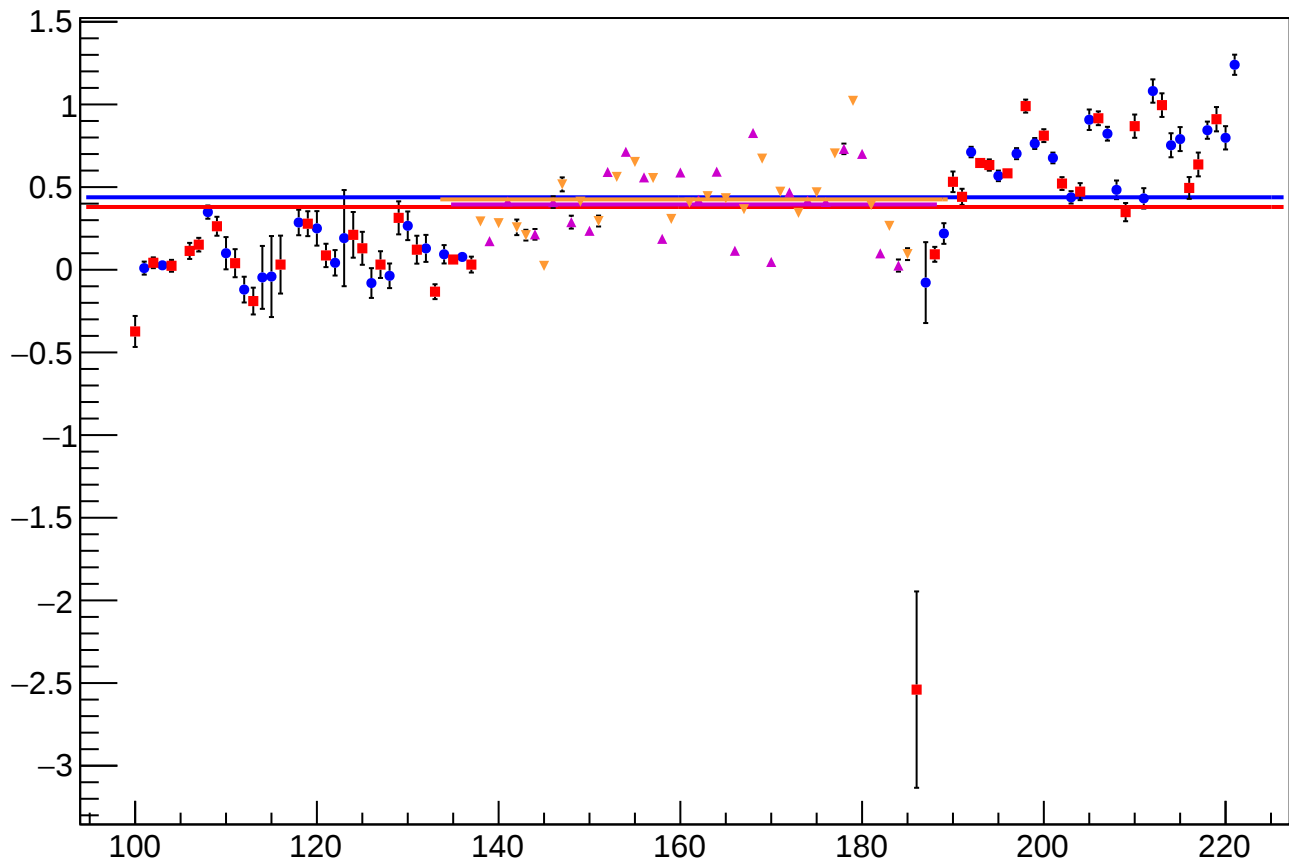
Right: -23.365 ± 0.134 $\chi^2/\text{NDF}: 20687.8/71$

In: -33.606 ± 0.103 $\chi^2/\text{NDF}: 13842.4/57$

Out: -33.842 ± 0.101 $\chi^2/\text{NDF}: 17215.1/61$

All: -33.727 ± 0.072 $\chi^2/\text{NDF}: 31060.2/119$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.438 ± 0.008 χ^2/NDF : 1675.1/34

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.380 ± 0.008 χ^2/NDF : 1776.3/36

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

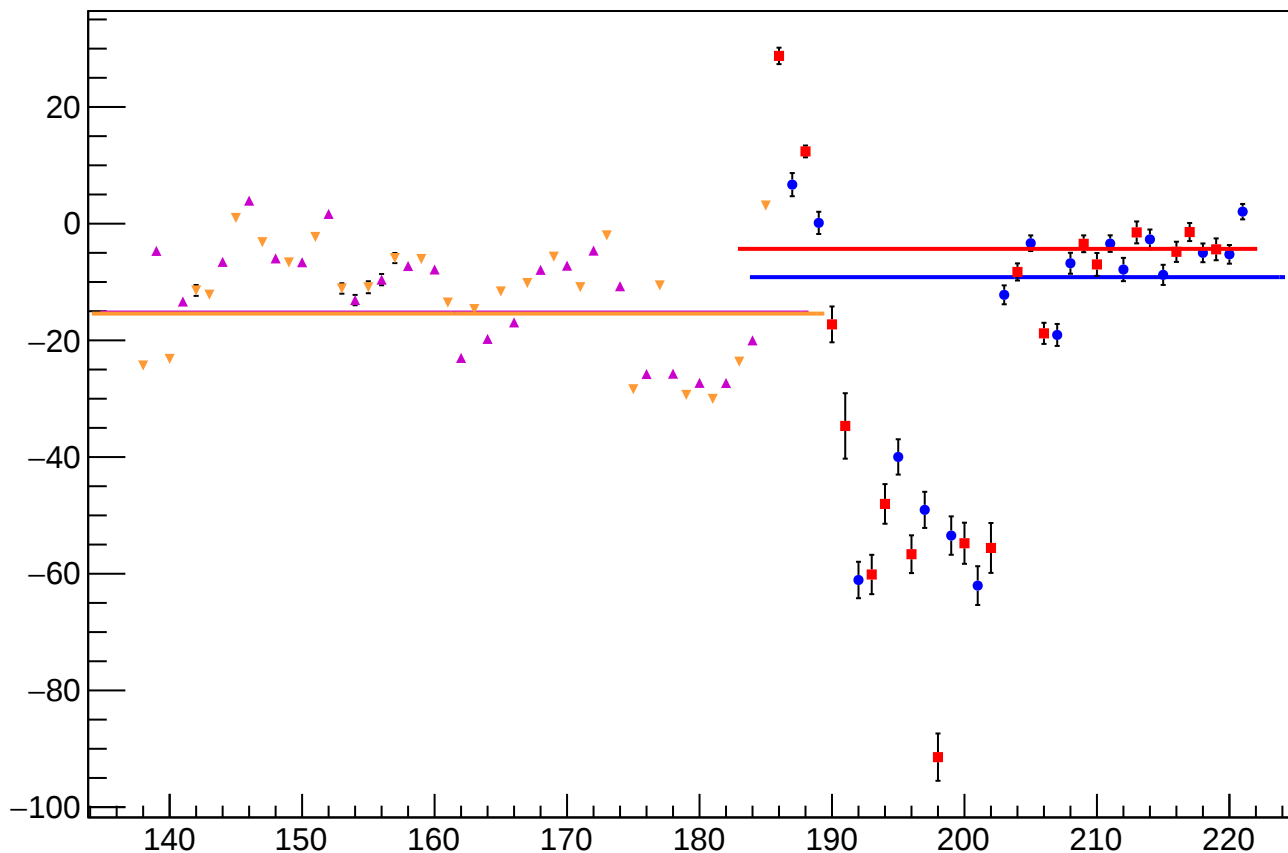
Right: 0.409 ± 0.006 χ^2/NDF : 3477.2/71

In: 0.408 ± 0.005 χ^2/NDF : 3492.6/57

Out: 0.412 ± 0.004 χ^2/NDF : 3102.5/61

All: 0.410 ± 0.003 χ^2/NDF : 6595.4/119

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected

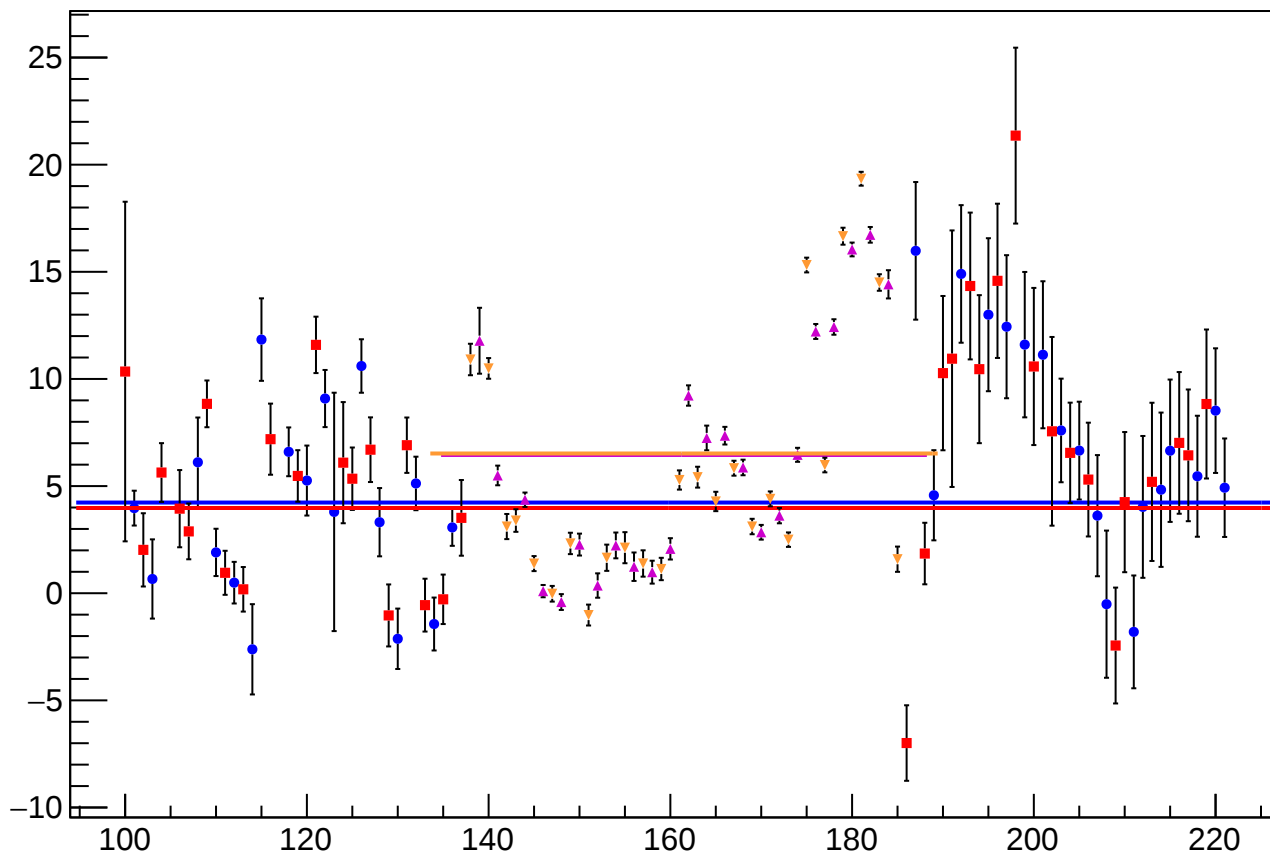


Right In: -9.165 ± 0.433 $\chi^2/\text{NDF}: 1235.8/17$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.317 ± 0.451 $\chi^2/\text{NDF}: 2460.5/17$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$
 Right: -6.841 ± 0.312 $\chi^2/\text{NDF}: 3756.5/35$
 In: -14.882 ± 0.104 $\chi^2/\text{NDF}: 10078.3/40$
 Out: -14.840 ± 0.102 $\chi^2/\text{NDF}: 13543.4/42$

All: -14.861 ± 0.073 $\chi^2/\text{NDF}: 23621.7/83$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.232 ± 0.283 χ^2/NDF : 196.8/34

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.978 ± 0.286 χ^2/NDF : 232.9/36

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

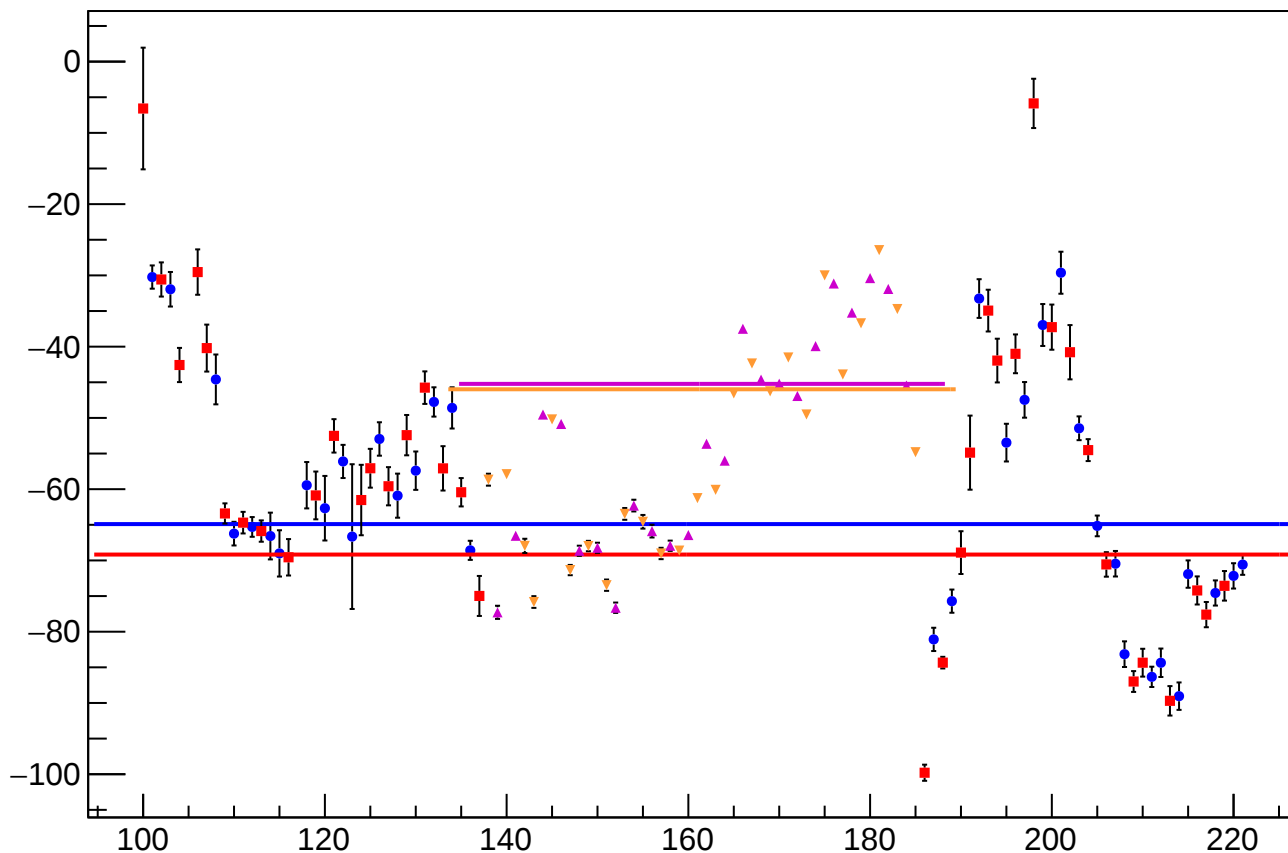
Right: 4.106 ± 0.201 χ^2/NDF : 430.1/71

In: 6.263 ± 0.082 χ^2/NDF : 4201.3/57

Out: 6.313 ± 0.082 χ^2/NDF : 5290.7/61

All: 6.288 ± 0.058 χ^2/NDF : 9492.1/119

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.899 ± 0.340 $\chi^2/\text{NDF}: 2145.3/34$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -69.174 ± 0.333 $\chi^2/\text{NDF}: 3298.7/36$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

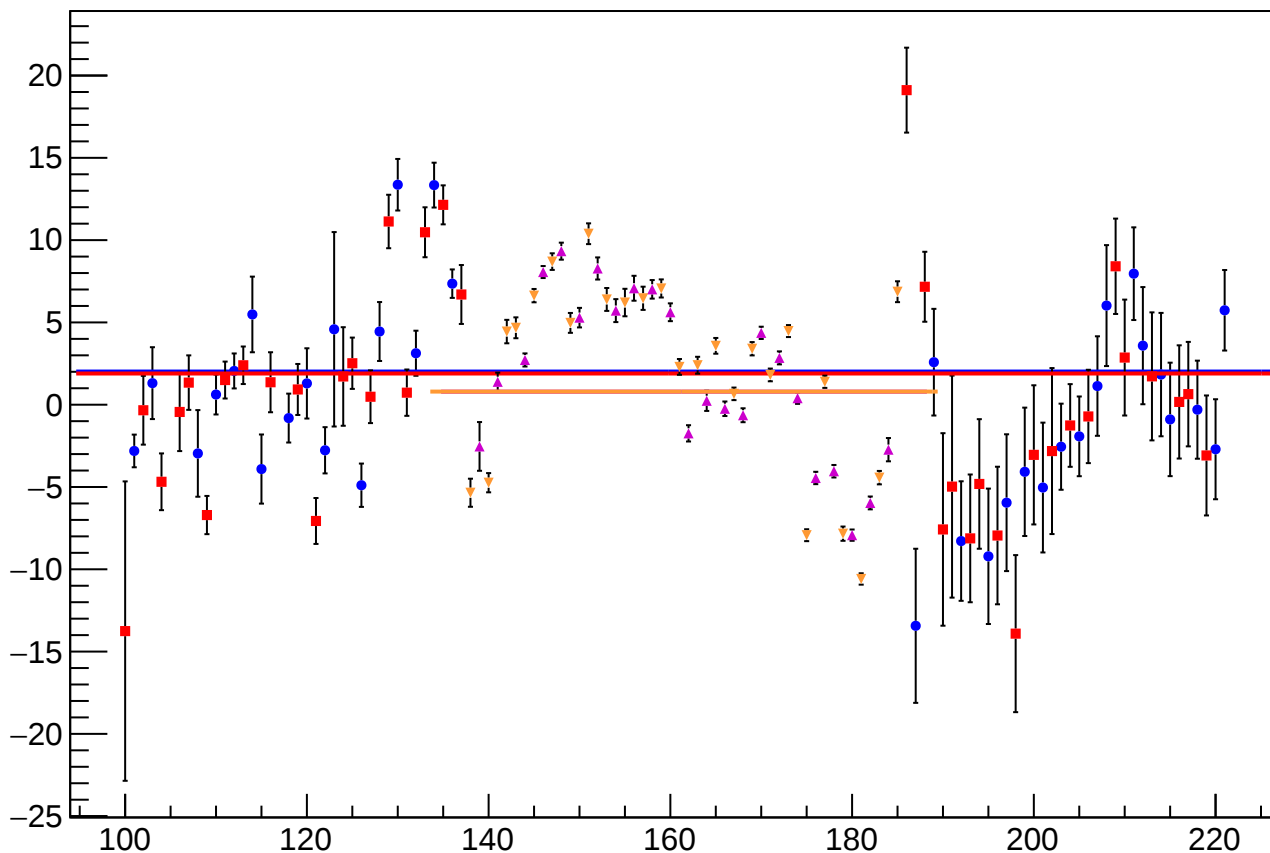
Right: -67.083 ± 0.238 $\chi^2/\text{NDF}: 5524.9/71$

In: -47.003 ± 0.102 $\chi^2/\text{NDF}: 20795.0/57$

Out: -48.130 ± 0.101 $\chi^2/\text{NDF}: 25070.7/61$

All: -47.572 ± 0.072 $\chi^2/\text{NDF}: 45927.1/119$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.015 ± 0.317 χ^2/NDF : 297.6/34

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.896 ± 0.325 χ^2/NDF : 357.1/36

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

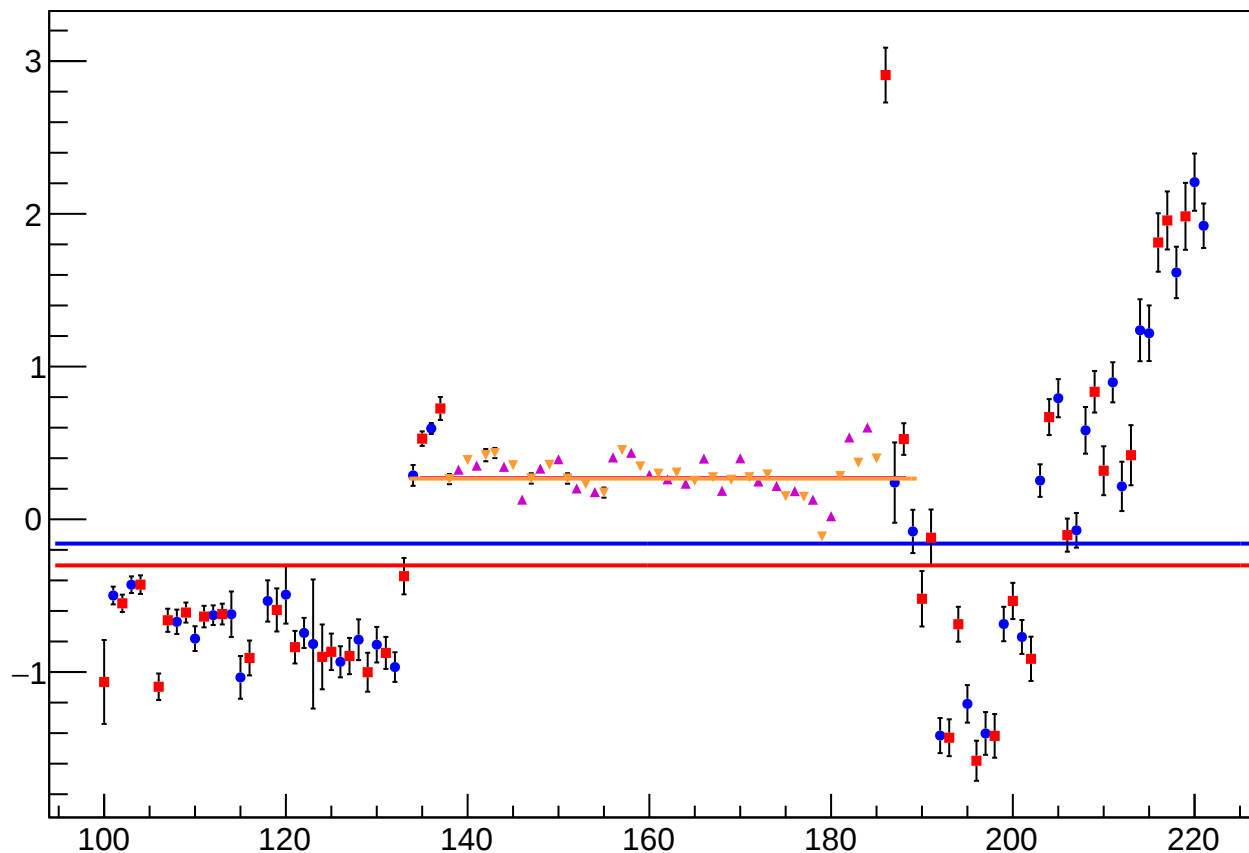
Right: 1.957 ± 0.227 χ^2/NDF : 654.8/71

In: 0.896 ± 0.092 χ^2/NDF : 3003.8/57

Out: 0.885 ± 0.092 χ^2/NDF : 4127.5/61

All: 0.890 ± 0.065 χ^2/NDF : 7131.3/119

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.159 ± 0.016 χ^2/NDF : 2044.4/34

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.302 ± 0.016 χ^2/NDF : 2072.5/36

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

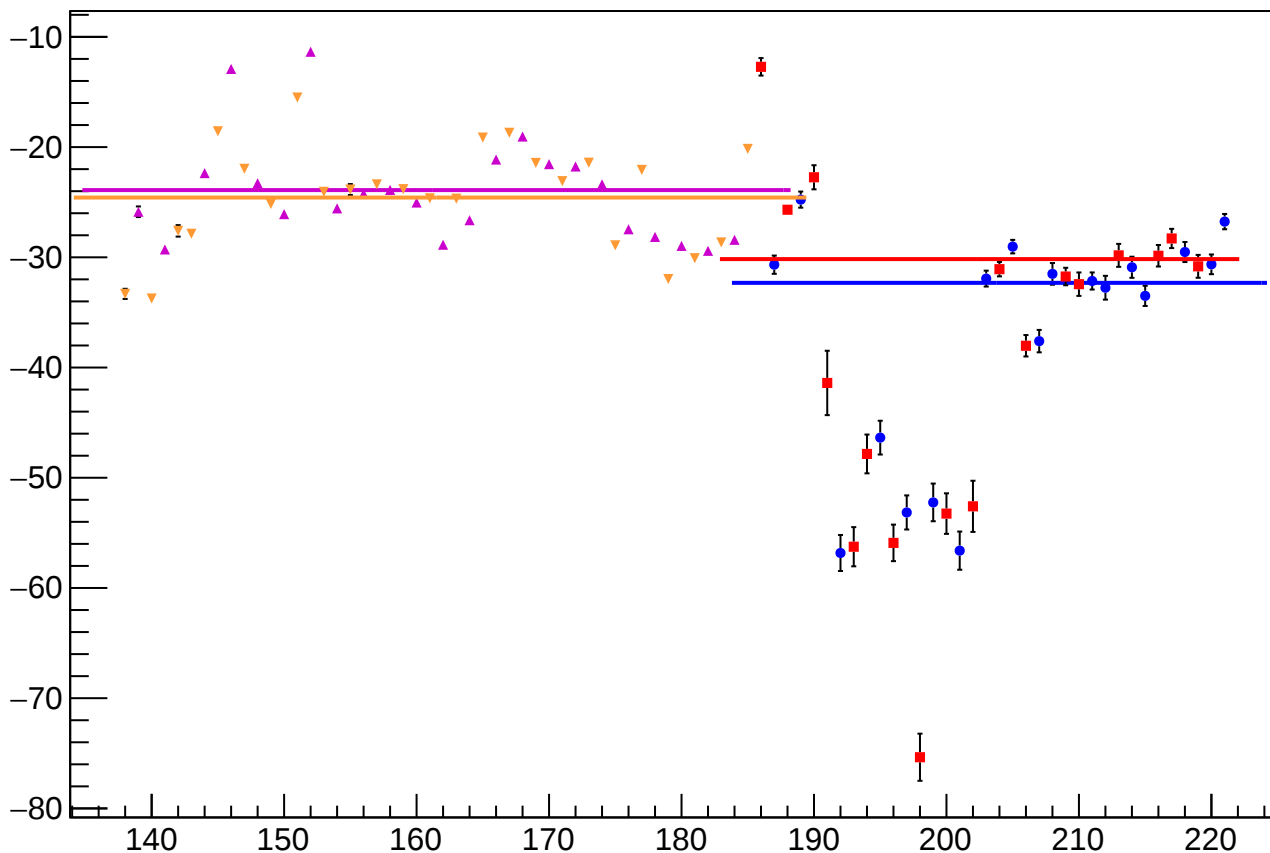
Right: -0.230 ± 0.012 χ^2/NDF : 4154.8/71

In: 0.241 ± 0.004 χ^2/NDF : 3657.2/57

Out: 0.229 ± 0.004 χ^2/NDF : 3882.6/61

All: 0.235 ± 0.003 χ^2/NDF : 7543.5/119

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.316 ± 0.218 $\chi^2/\text{NDF}: 1071.8/17$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -30.162 ± 0.225 $\chi^2/\text{NDF}: 1988.6/17$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

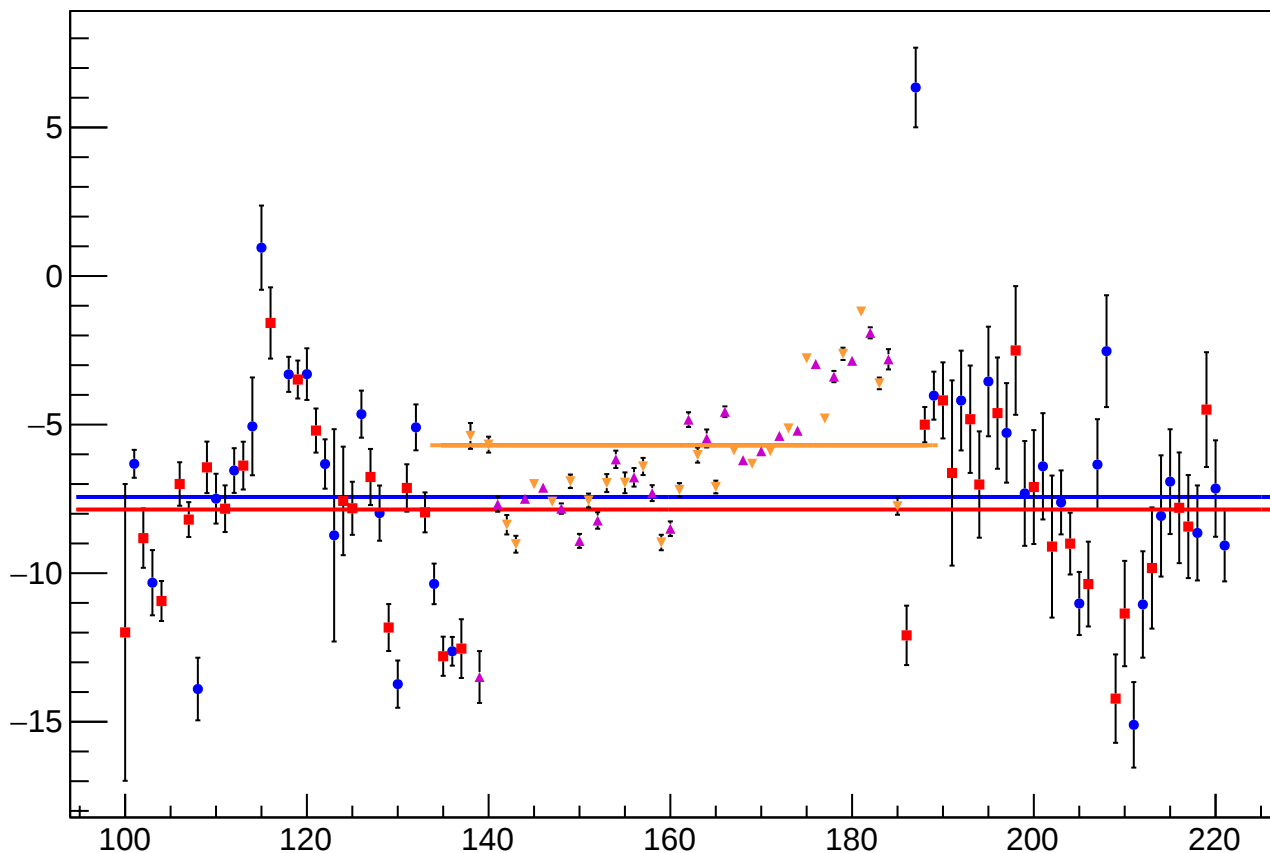
Right: -31.277 ± 0.156 $\chi^2/\text{NDF}: 3107.8/35$

In: -24.341 ± 0.050 $\chi^2/\text{NDF}: 11645.3/40$

Out: -24.849 ± 0.050 $\chi^2/\text{NDF}: 11163.9/42$

All: -24.595 ± 0.035 $\chi^2/\text{NDF}: 22861.4/83$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



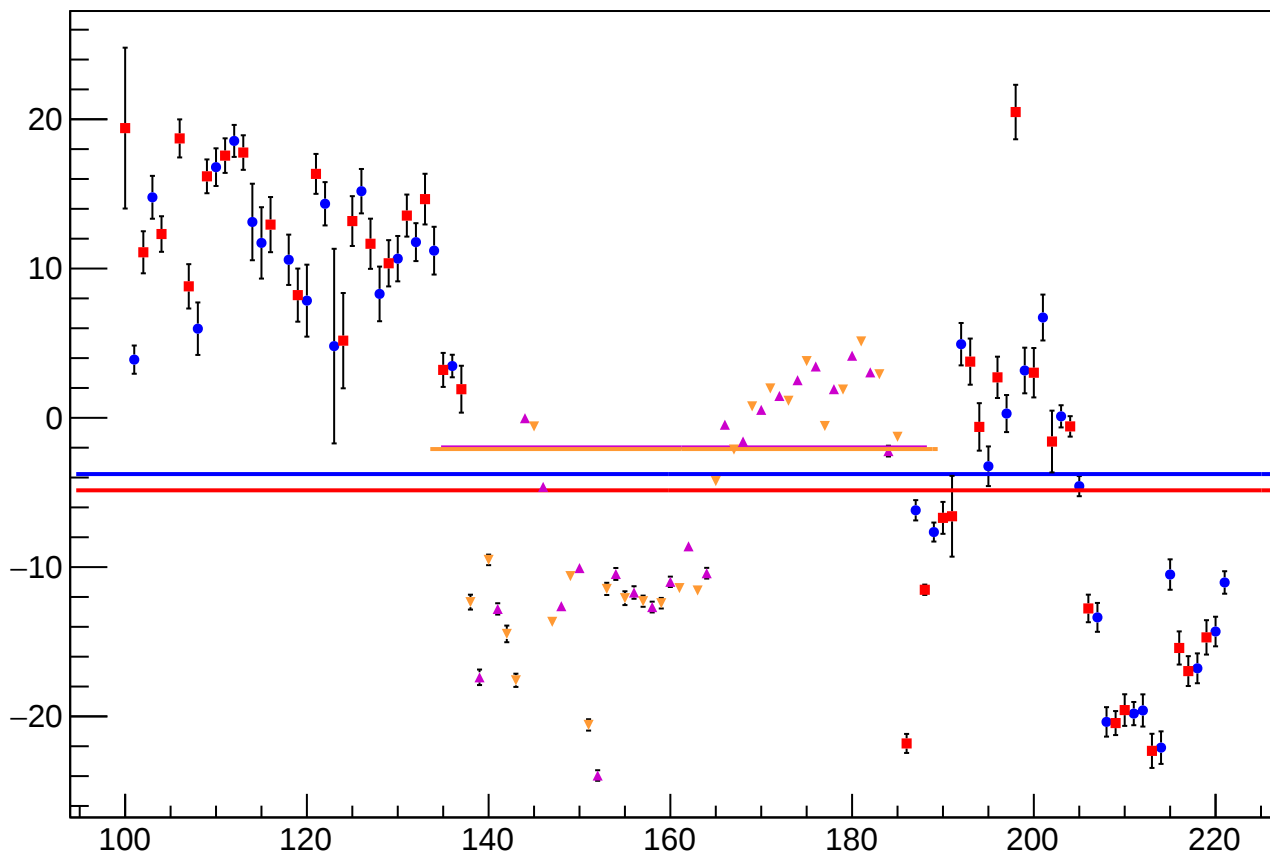
Right In: -7.436 ± 0.163 χ^2/NDF : 568.3/34
 Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24
 Right Out: -7.857 ± 0.162 χ^2/NDF : 316.1/36
 Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47
 Right: -7.649 ± 0.115 χ^2/NDF : 887.7/71

In: -5.798 ± 0.040 χ^2/NDF : 2984.8/57
 Out: -5.825 ± 0.040 χ^2/NDF : 2742.6/61

All: -5.812 ± 0.028 χ^2/NDF : 5727.7/119

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

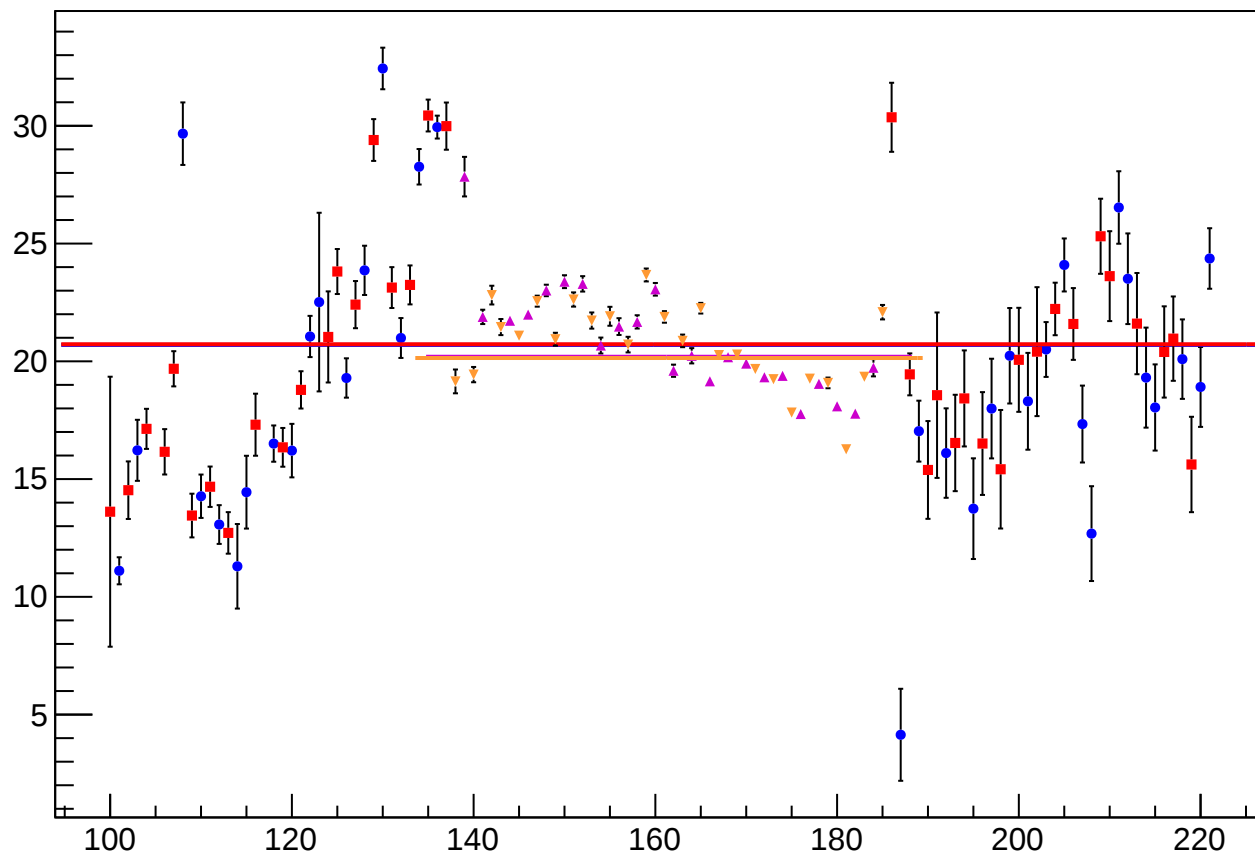


Right In: -3.768 ± 0.182 χ^2/NDF : 3844.2/34
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -4.857 ± 0.176 χ^2/NDF : 5566.8/36
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -4.330 ± 0.127 χ^2/NDF : 9429.5/71
 In: -2.112 ± 0.049 χ^2/NDF : 19315.7/57
 Out: -2.308 ± 0.049 χ^2/NDF : 22098.5/61

All: -2.210 ± 0.035 χ^2/NDF : 41422.2/119

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.697 $\pm$ 0.185 χ^2 /NDF: 1369.0/34

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.724 $\pm$ 0.188 χ^2 /NDF: 807.0/36

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

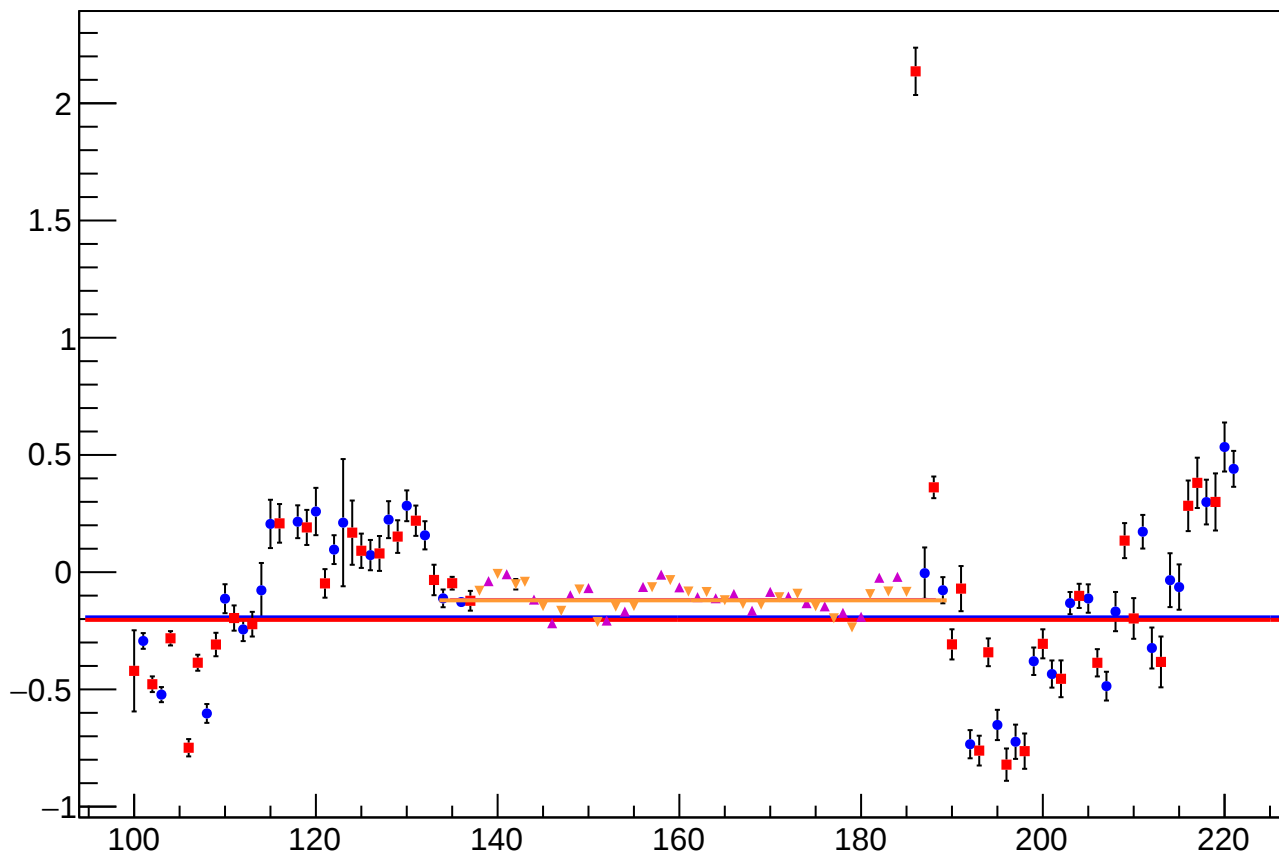
Right: 20.710 $\pm$ 0.132 χ^2 /NDF: 2176.0/71

In: 20.223 $\pm$ 0.045 χ^2 /NDF:2823.3/57

Out: 20.174 $\pm$ 0.045 χ^2 /NDF:2235.2/61

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 5059.1/119

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.193 ± 0.009 $\chi^2/\text{NDF}: 881.8/34$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.203 ± 0.009 $\chi^2/\text{NDF}: 1563.1/36$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

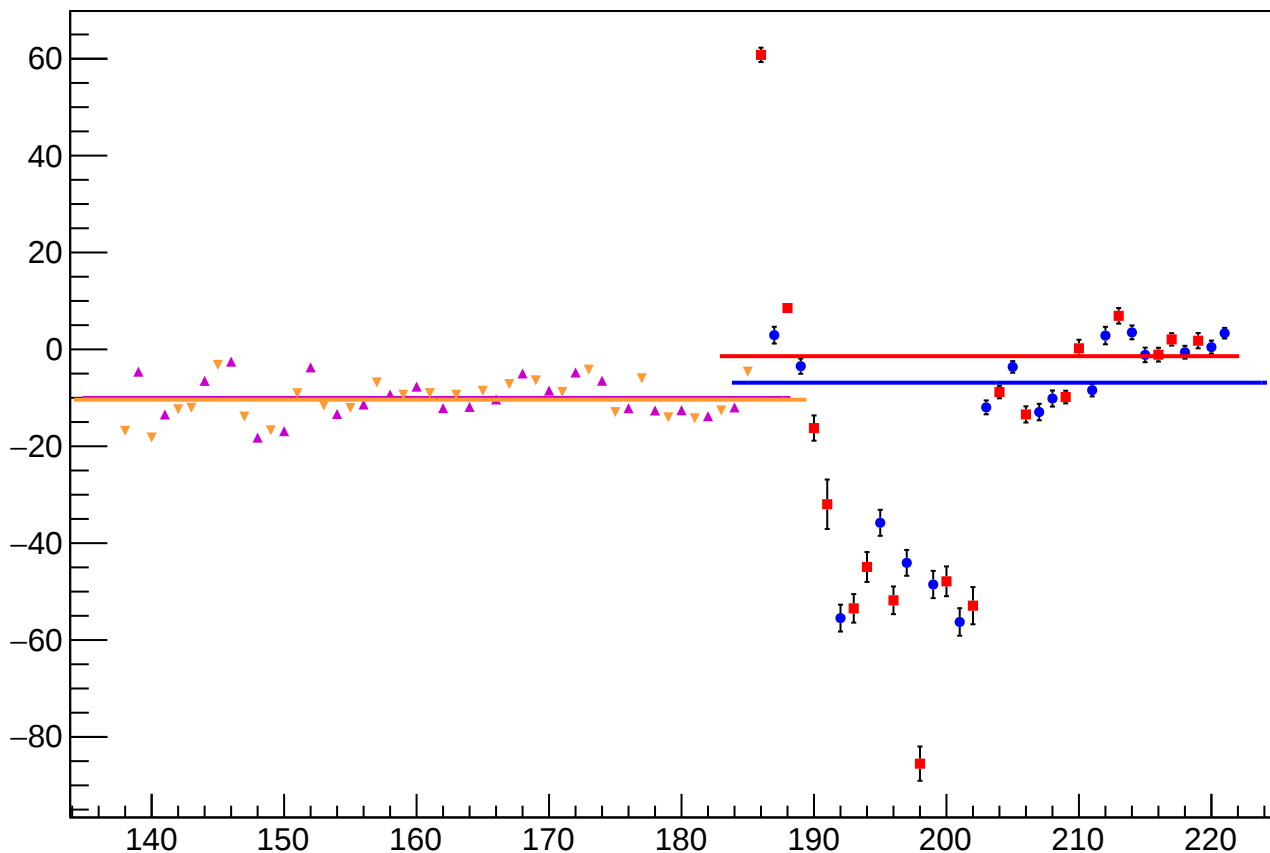
Right: -0.198 ± 0.007 $\chi^2/\text{NDF}: 2445.6/71$

In: -0.122 ± 0.002 $\chi^2/\text{NDF}: 1664.5/57$

Out: -0.124 ± 0.002 $\chi^2/\text{NDF}: 2171.9/61$

All: -0.123 ± 0.001 $\chi^2/\text{NDF}: 3836.8/119$

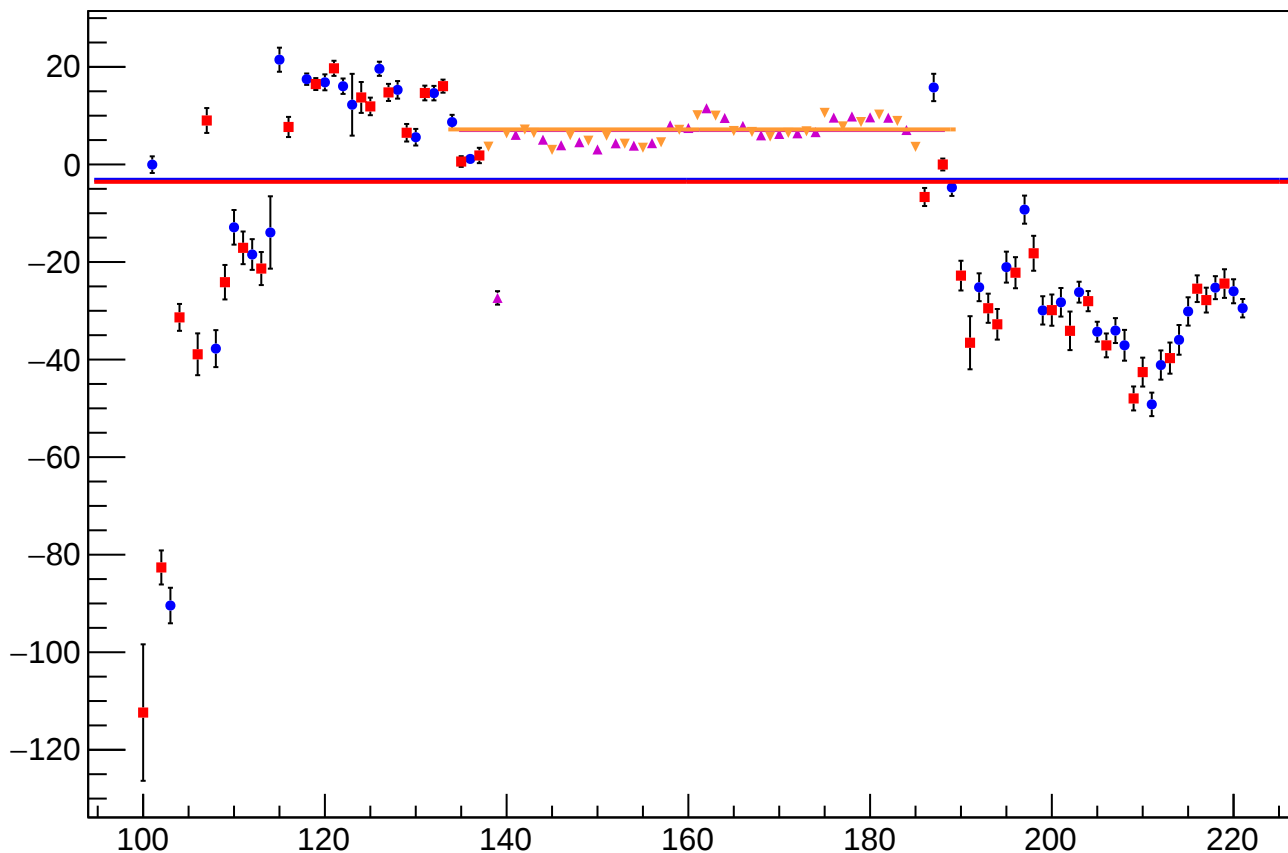
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.876 ± 0.376 $\chi^2/\text{NDF}: 1448.9/17$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: -1.405 ± 0.398 $\chi^2/\text{NDF}: 3914.2/17$
 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: -4.292 ± 0.273 $\chi^2/\text{NDF}: 5463.0/35$
 In: -9.866 ± 0.087 $\chi^2/\text{NDF}: 3274.3/40$
 Out: -9.973 ± 0.086 $\chi^2/\text{NDF}: 6512.8/42$
 All: -9.920 ± 0.061 $\chi^2/\text{NDF}: 9787.9/83$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.143 ± 0.335 $\chi^2/\text{NDF}: 4031.9/34$

Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$

Right Out: -3.557 ± 0.351 $\chi^2/\text{NDF}: 3591.1/36$

Left In: 7.053 ± 0.074 $\chi^2/\text{NDF}: 1535.8/22$

Left: 7.119 ± 0.052 $\chi^2/\text{NDF}: 2454.8/47$

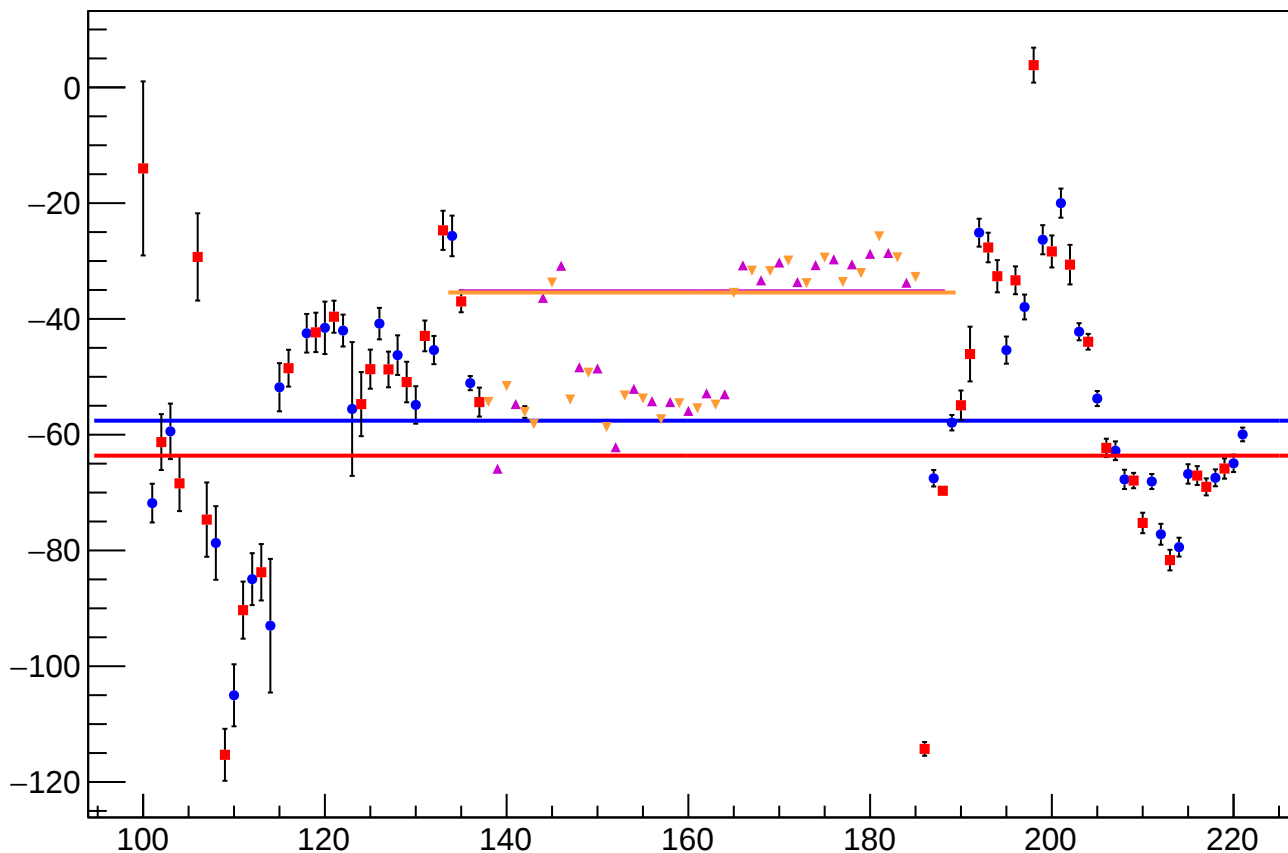
Right: -3.340 ± 0.242 $\chi^2/\text{NDF}: 7623.7/71$

In: 6.576 ± 0.072 $\chi^2/\text{NDF}: 6451.5/57$

Out: 6.732 ± 0.072 $\chi^2/\text{NDF}: 5407.0/61$

All: 6.655 ± 0.051 $\chi^2/\text{NDF}: 11860.9/119$

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.584 $\pm$ 0.337 χ^2 /NDF: 1756.3/34

Left Out: -35.434 $\pm$ 0.089 χ^2 /NDF:12782.8/24

Right Out: -63.622 $\pm$ 0.340 χ^2 /NDF: 4362.3/36

Left In: -35.229 $\pm$ 0.090 χ^2 /NDF:11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2 /NDF: 24388.3/47

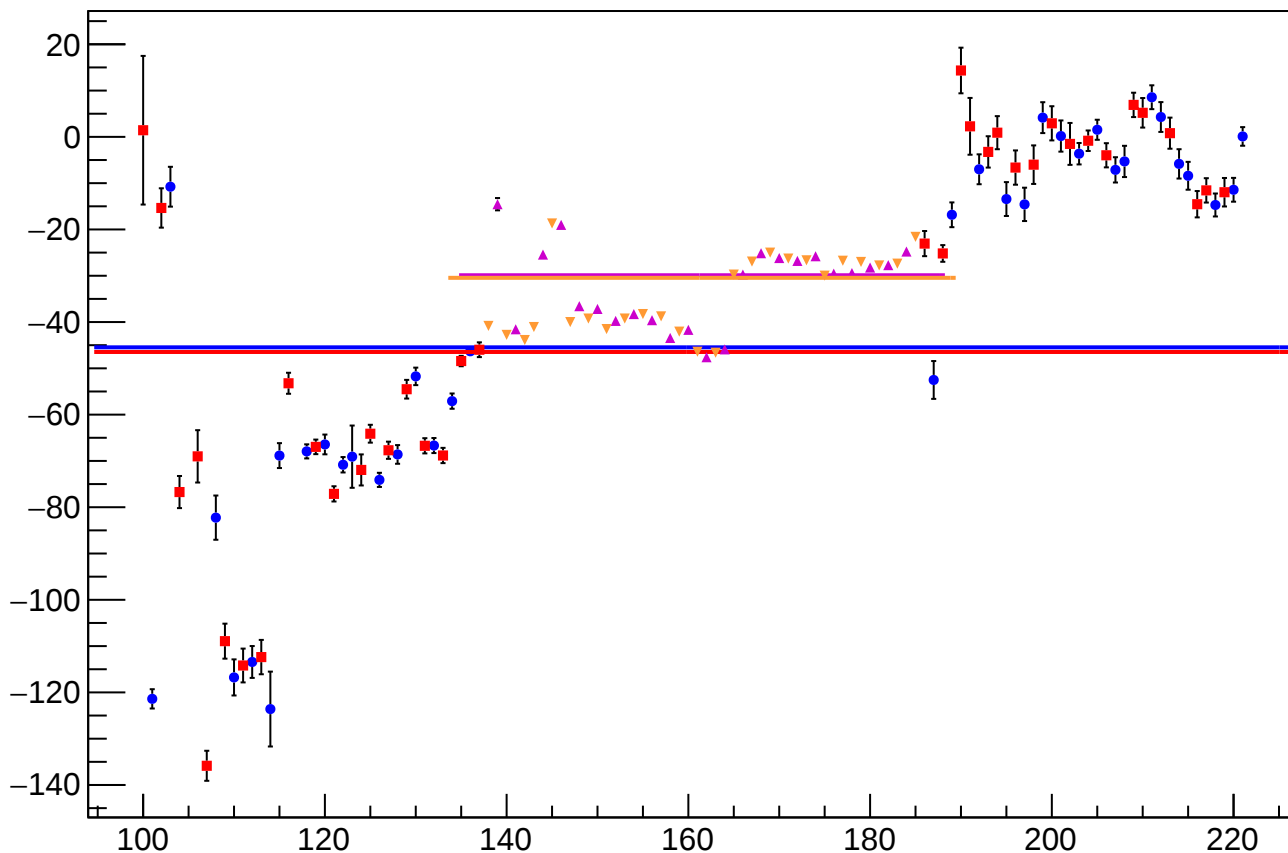
Right: -60.576 $\pm$ 0.239 χ^2 /NDF: 6277.6/71

In: -36.720 $\pm$ 0.087 χ^2 /NDF:17463.7/57

Out: -37.241 $\pm$ 0.086 χ^2 /NDF:23573.0/61

All: -36.983 $\pm$ 0.061 χ^2 /NDF: 41054.9/119

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -45.462 ± 0.372 χ^2/NDF : 7397.3/34

Left Out: -30.448 ± 0.082 χ^2/NDF : 8167.7/24

Right Out: -46.465 ± 0.400 χ^2/NDF : 6241.9/36

Left In: -29.892 ± 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 ± 0.058 χ^2/NDF : 15305.7/47

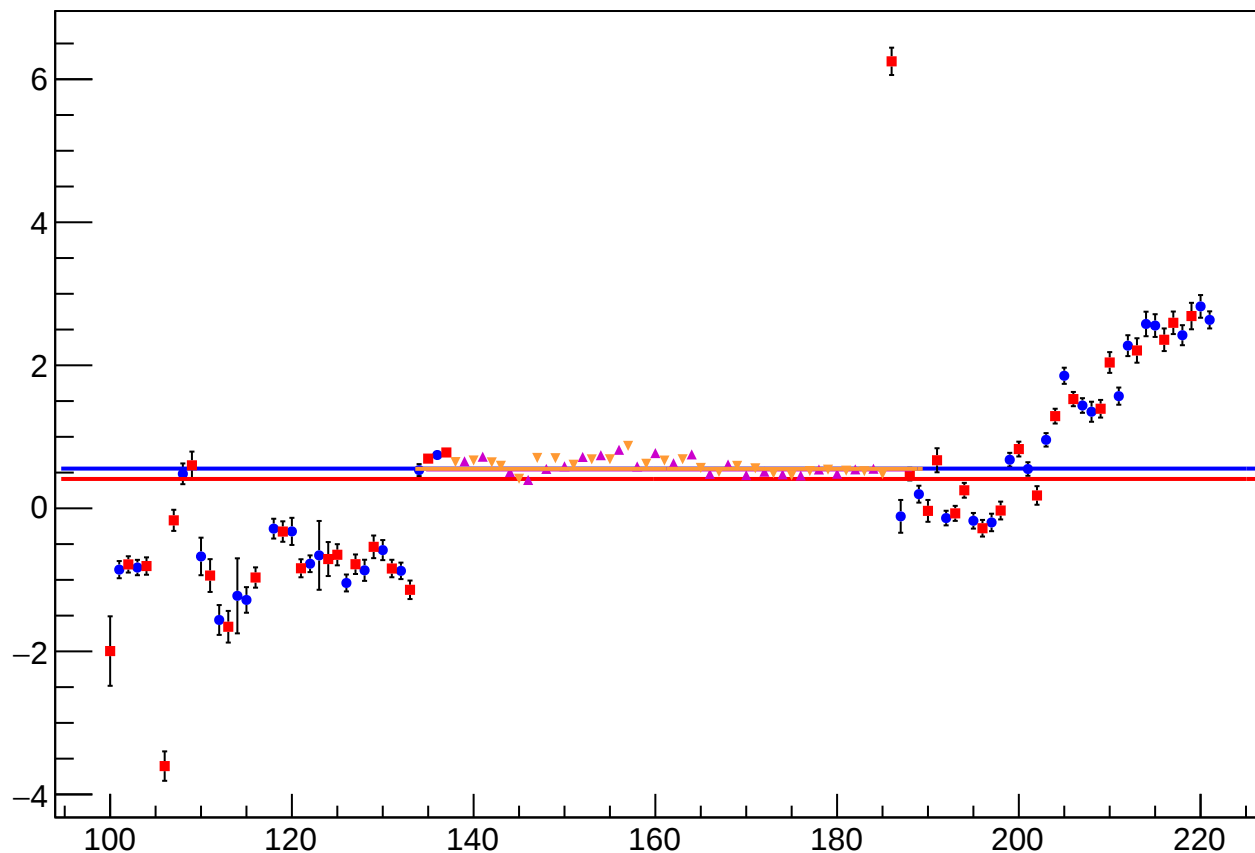
Right: -45.928 ± 0.272 χ^2/NDF : 13642.6/71

In: -30.623 ± 0.081 χ^2/NDF : 16180.5/57

Out: -31.087 ± 0.080 χ^2/NDF : 15950.6/61

All: -30.857 ± 0.057 χ^2/NDF : 32147.9/119

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.556 $\pm$ 0.018 χ^2 /NDF: 2863.7/34

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.411 $\pm$ 0.020 χ^2 /NDF: 3504.3/36

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

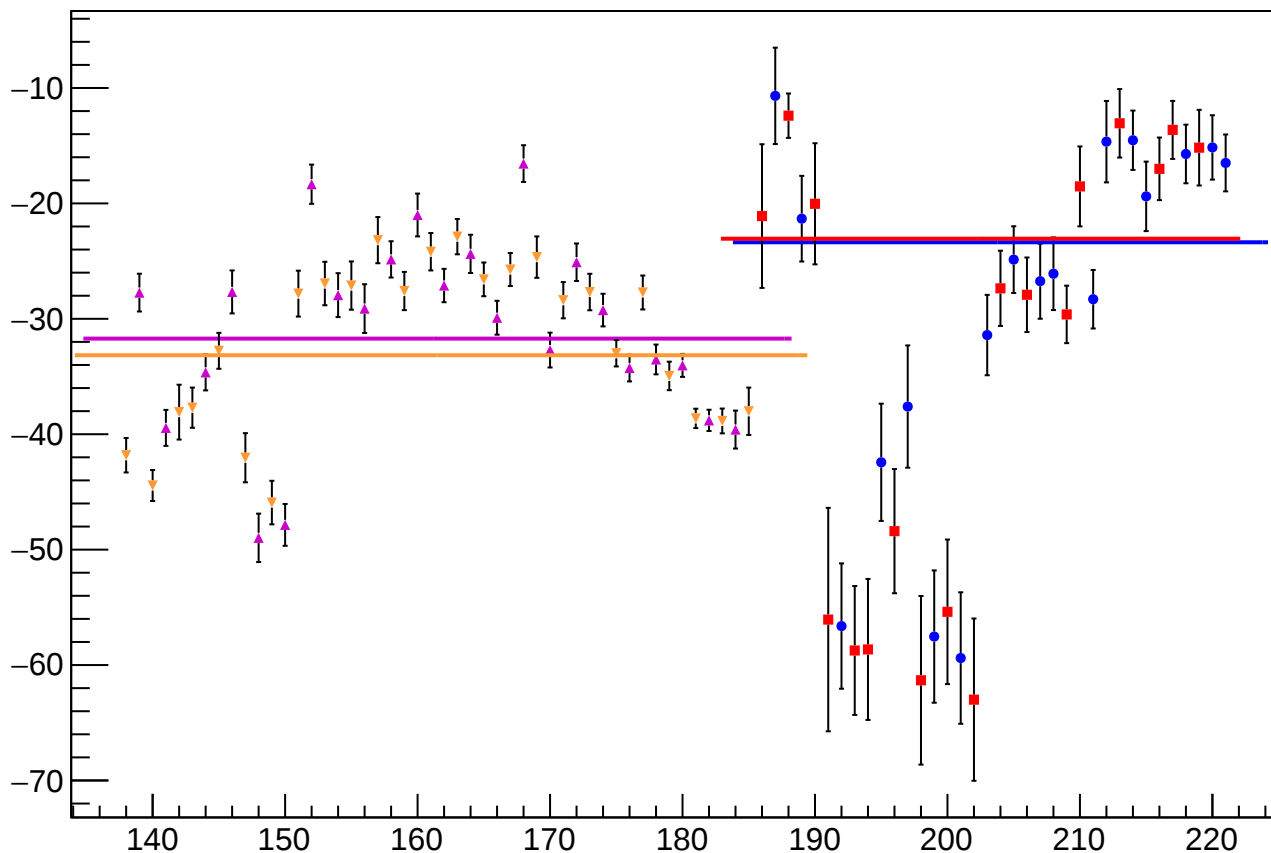
Right: 0.488 $\pm$ 0.013 χ^2 /NDF: 6397.2/71

In: 0.544 $\pm$ 0.004 χ^2 /NDF:3520.0/57

Out: 0.548 $\pm$ 0.004 χ^2 /NDF:4097.1/61

All: 0.546 $\pm$ 0.003 χ^2 /NDF: 7617.6/119

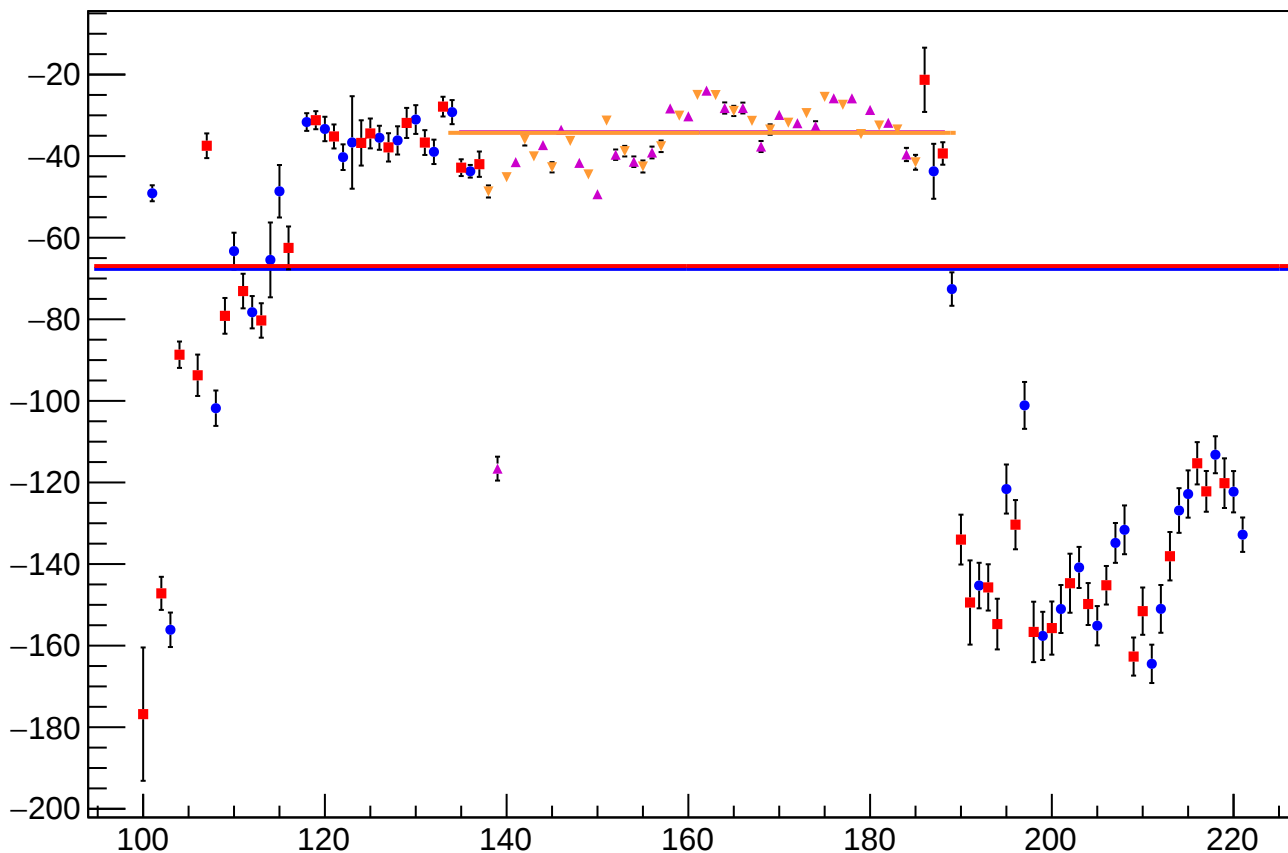
reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.368 ± 0.780 χ^2/NDF : 200.3/17
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -23.058 ± 0.834 χ^2/NDF : 274.9/17
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -23.223 ± 0.570 χ^2/NDF : 475.3/35
 In: -30.583 ± 0.287 χ^2/NDF : 841.5/40
 Out: -31.999 ± 0.282 χ^2/NDF : 904.7/42
 All: -31.303 ± 0.201 χ^2/NDF : 1758.6/83

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.638 ± 0.628 $\chi^2/\text{NDF}: 4796.4/34$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -66.950 ± 0.655 $\chi^2/\text{NDF}: 4699.5/36$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

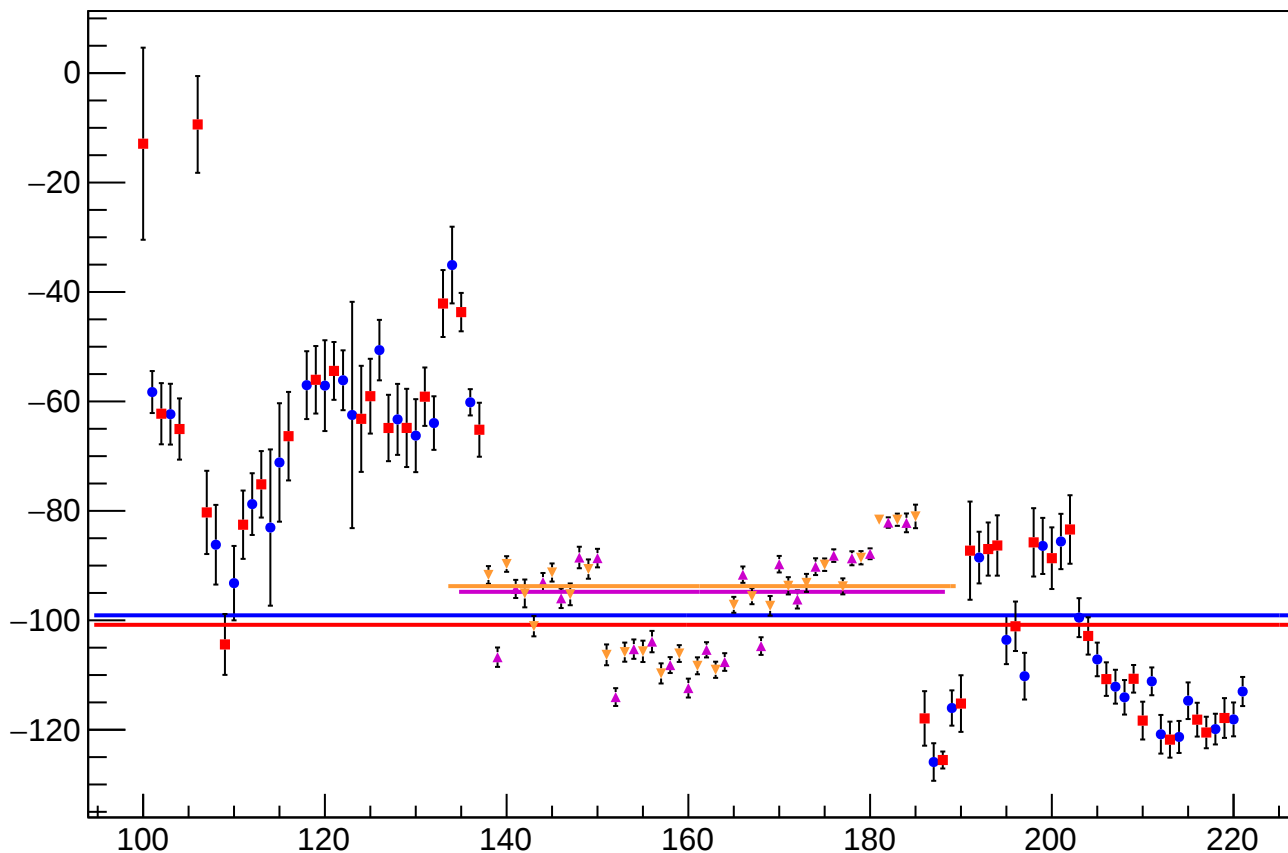
Right: -67.309 ± 0.453 $\chi^2/\text{NDF}: 9496.5/71$

In: -38.755 ± 0.233 $\chi^2/\text{NDF}: 8703.3/57$

Out: -38.196 ± 0.227 $\chi^2/\text{NDF}: 7584.5/61$

All: -38.467 ± 0.162 $\chi^2/\text{NDF}: 16290.7/119$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -99.087 ± 0.676 $\chi^2/\text{NDF}: 1269.2/34$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -100.823 ± 0.696 $\chi^2/\text{NDF}: 1488.0/36$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

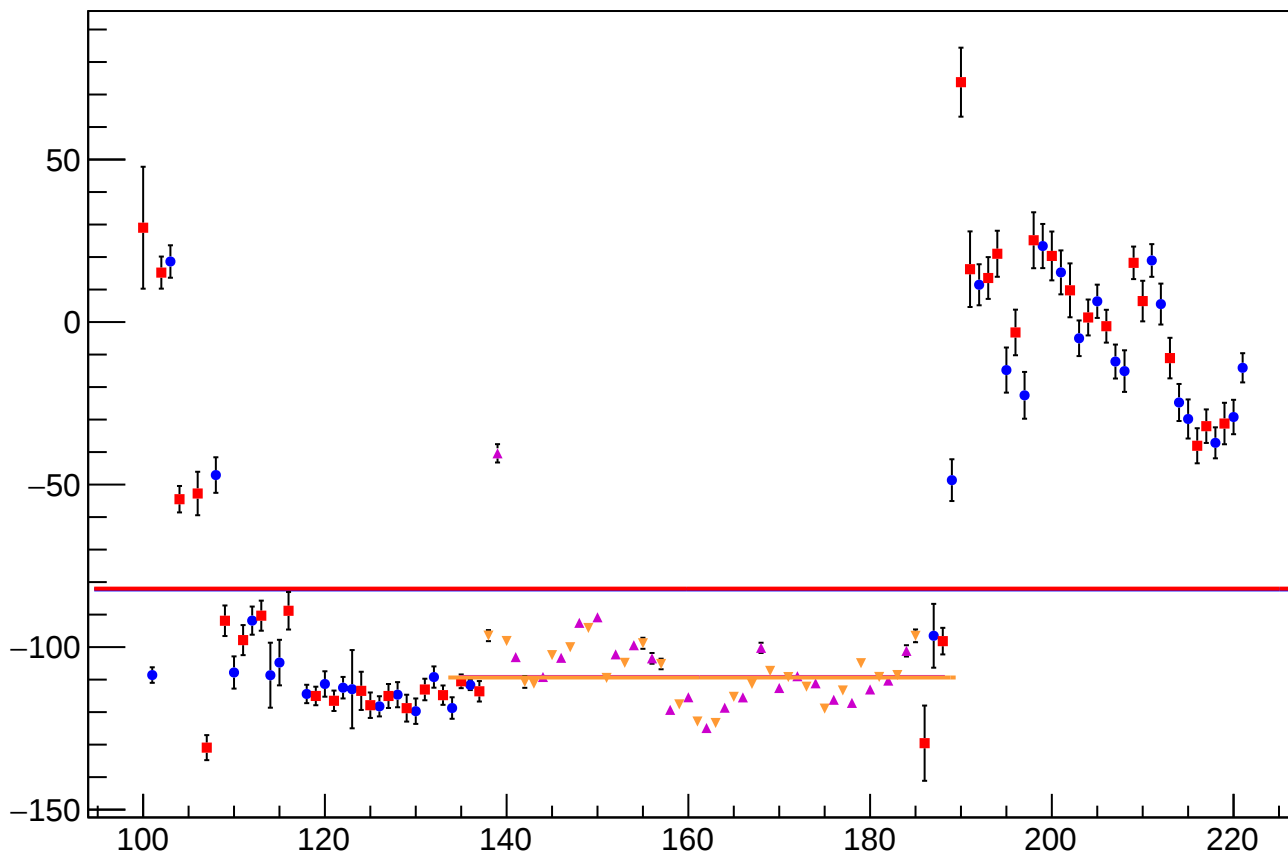
Right: -99.929 ± 0.485 $\chi^2/\text{NDF}: 2760.3/71$

In: -95.536 ± 0.281 $\chi^2/\text{NDF}: 2277.2/57$

Out: -94.871 ± 0.277 $\chi^2/\text{NDF}: 2457.8/61$

All: -95.199 ± 0.197 $\chi^2/\text{NDF}: 4737.9/119$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -82.252 ± 0.703 $\chi^2/\text{NDF}: 4585.7/34$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -82.009 ± 0.746 $\chi^2/\text{NDF}: 4469.9/36$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

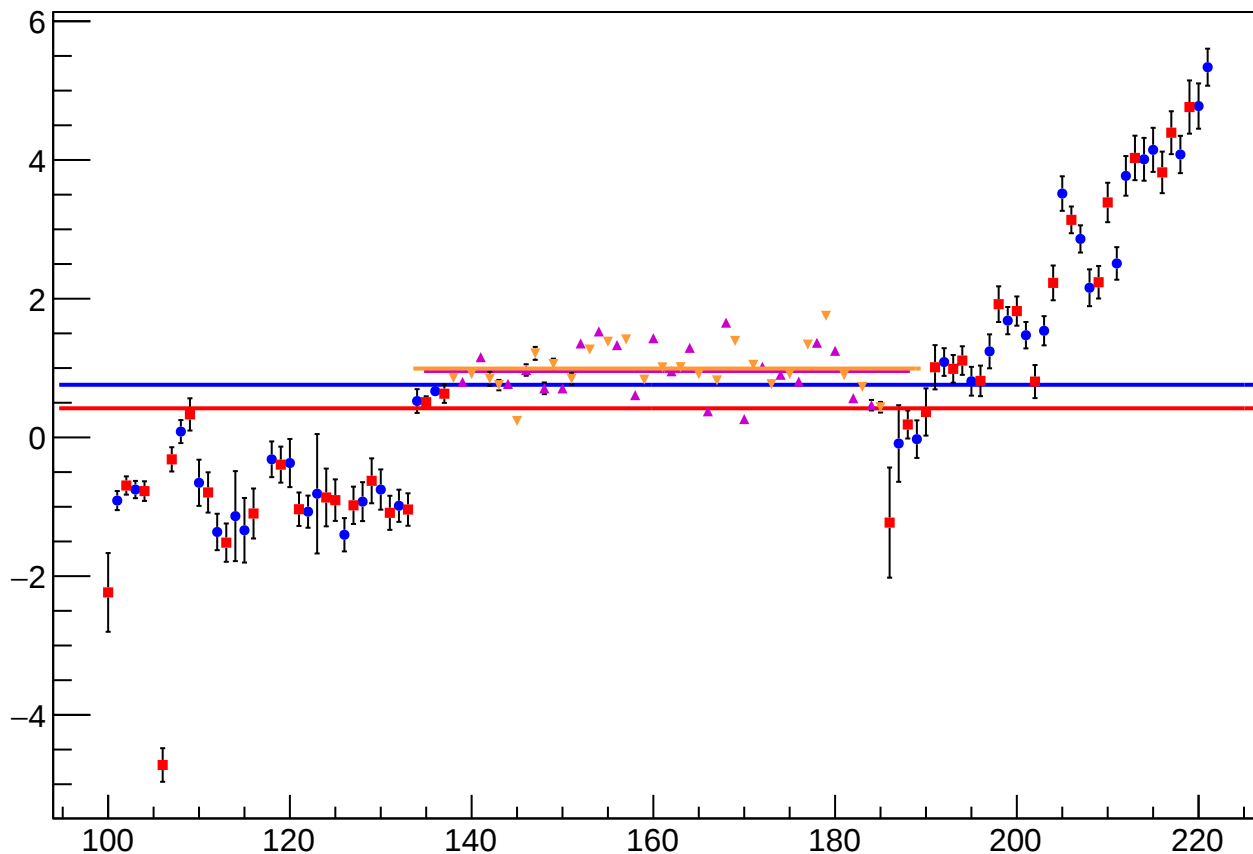
Right: -82.138 ± 0.512 $\chi^2/\text{NDF}: 9055.7/71$

In: -105.501 ± 0.260 $\chi^2/\text{NDF}: 7352.8/57$

Out: -106.158 ± 0.255 $\chi^2/\text{NDF}: 6483.6/61$

All: -105.836 ± 0.182 $\chi^2/\text{NDF}: 13839.7/119$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.759 ± 0.034 $\chi^2/\text{NDF}: 2042.6/34$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.420 ± 0.035 $\chi^2/\text{NDF}: 1991.0/36$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

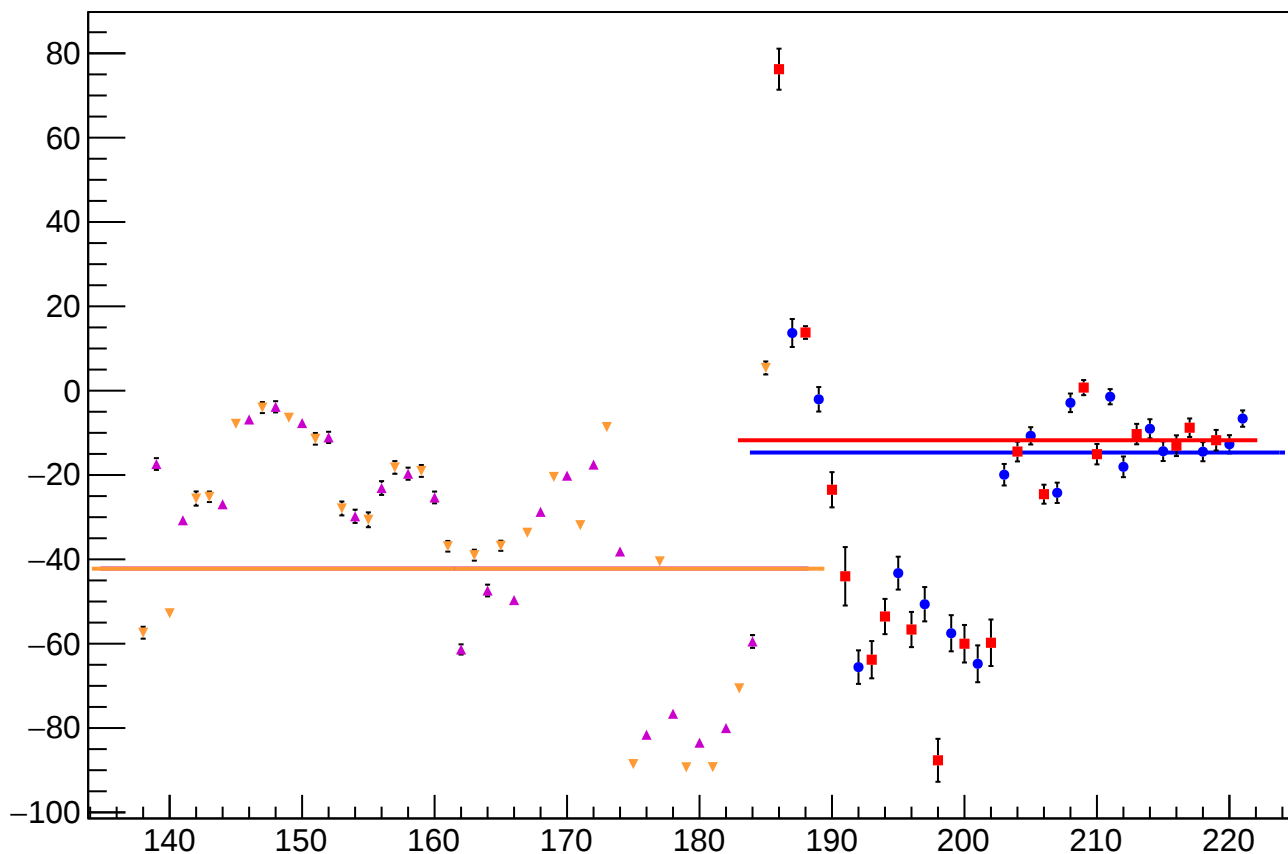
Right: 0.596 ± 0.025 $\chi^2/\text{NDF}: 4081.2/71$

In: 0.934 ± 0.012 $\chi^2/\text{NDF}: 2967.1/57$

Out: 0.930 ± 0.012 $\chi^2/\text{NDF}: 2862.5/61$

All: 0.932 ± 0.008 $\chi^2/\text{NDF}: 5829.7/119$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected

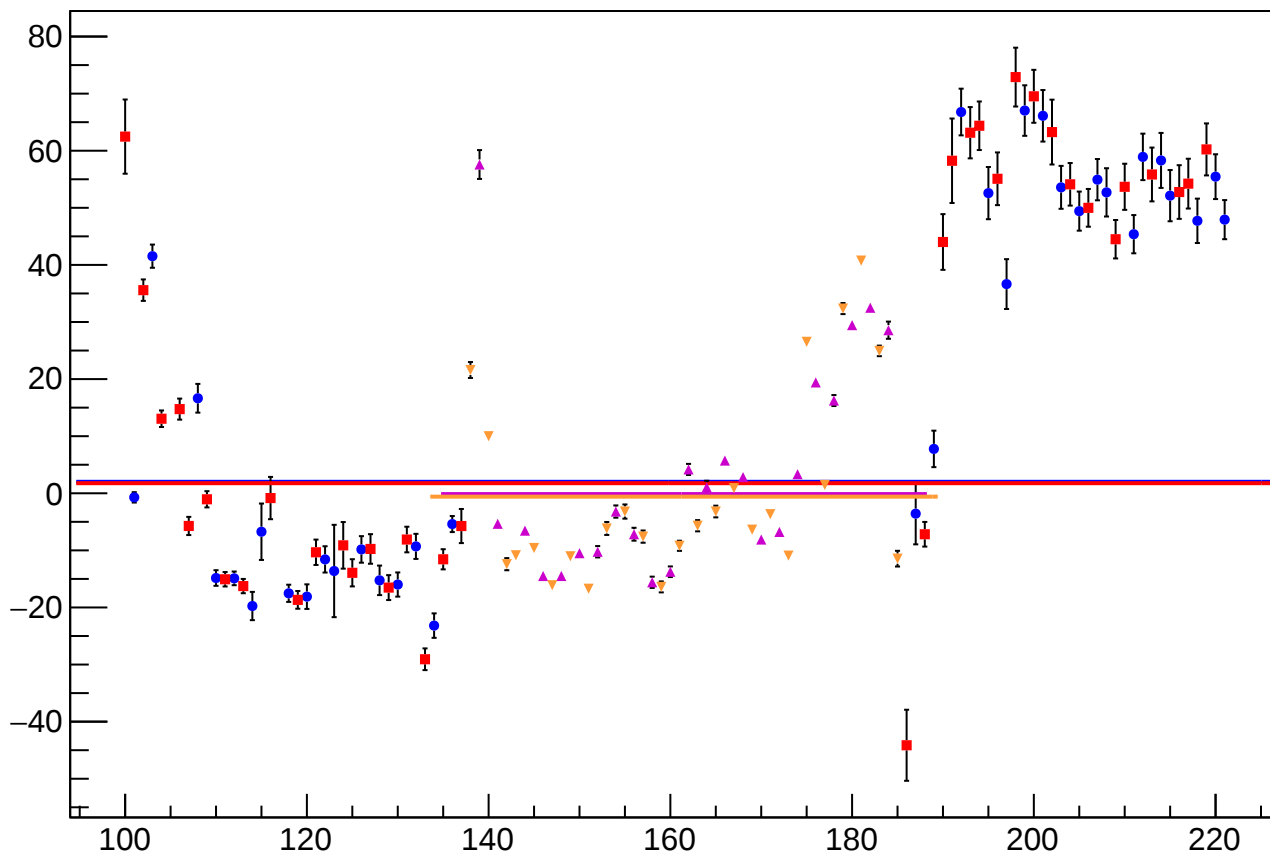


Right In: -14.669 ± 0.598 $\chi^2/\text{NDF}: 750.4/17$
 Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$
 Right Out: -11.759 ± 0.643 $\chi^2/\text{NDF}: 1499.4/17$
 Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$
 Right: -13.321 ± 0.438 $\chi^2/\text{NDF}: 2260.8/35$
 In: -38.705 ± 0.212 $\chi^2/\text{NDF}: 17177.8/40$
 Out: -38.970 ± 0.210 $\chi^2/\text{NDF}: 21812.3/42$

All: -38.839 ± 0.149 $\chi^2/\text{NDF}: 38990.9/83$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.010 ± 0.391 $\chi^2/\text{NDF}: 4205.5/34$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 1.768 ± 0.392 $\chi^2/\text{NDF}: 4180.4/36$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

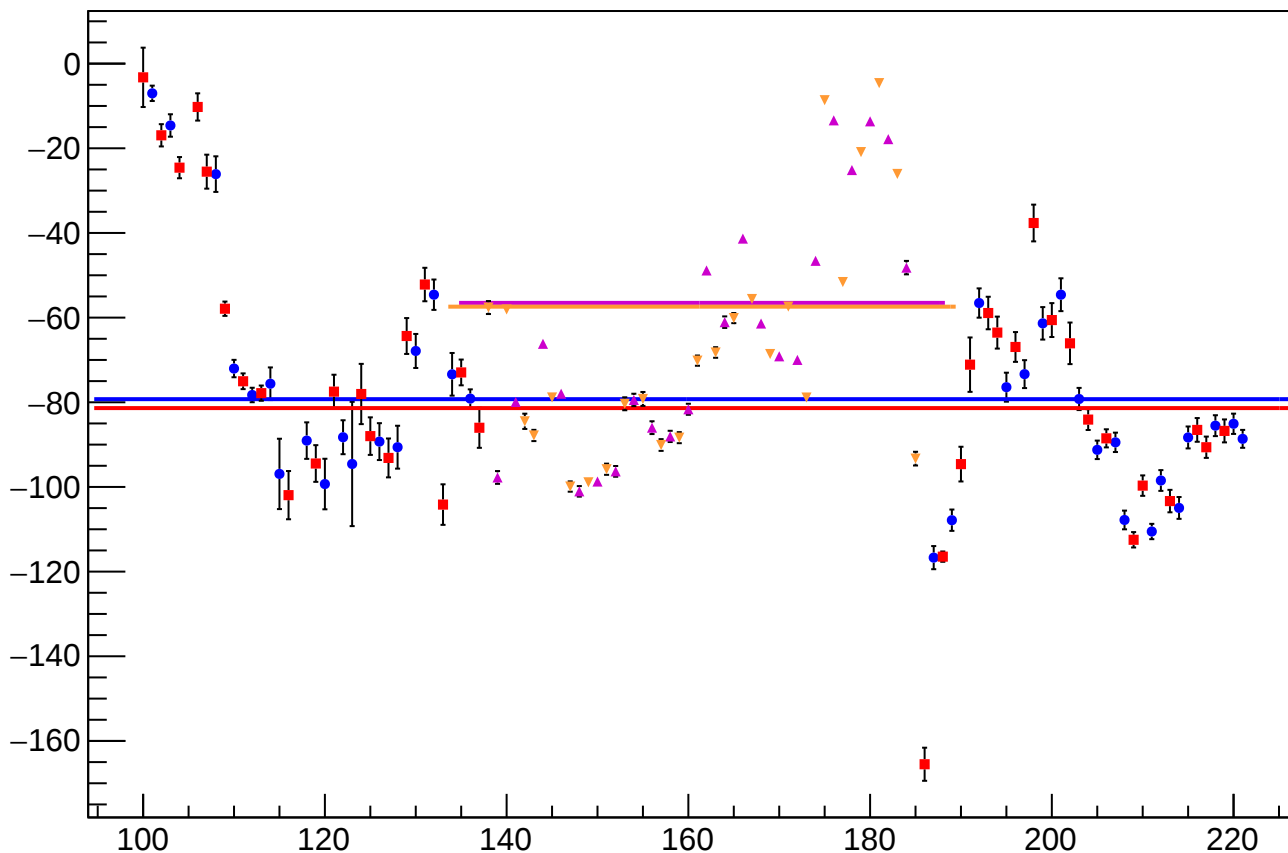
Right: 1.889 ± 0.277 $\chi^2/\text{NDF}: 8386.1/71$

In: 0.231 ± 0.163 $\chi^2/\text{NDF}: 11093.0/57$

Out: -0.201 ± 0.159 $\chi^2/\text{NDF}: 12961.5/61$

All: 0.010 ± 0.114 $\chi^2/\text{NDF}: 24058.1/119$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -79.264 ± 0.468 χ^2/NDF : 3590.3/34

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -81.374 ± 0.465 χ^2/NDF : 4231.9/36

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

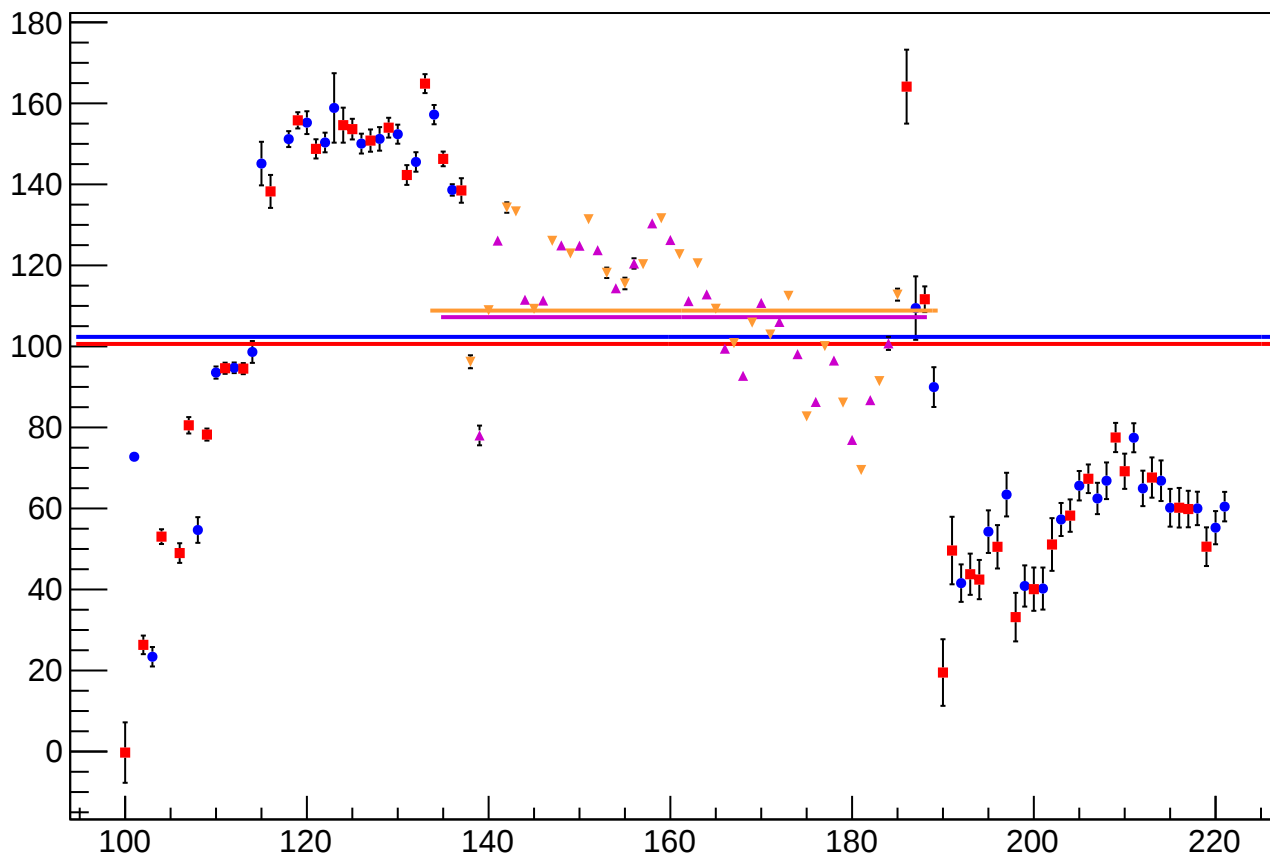
Right: -80.327 ± 0.330 χ^2/NDF : 7832.4/71

In: -60.849 ± 0.204 χ^2/NDF : 21853.5/57

Out: -61.906 ± 0.201 χ^2/NDF : 24996.7/61

All: -61.386 ± 0.143 χ^2/NDF : 46863.8/119

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 102.353 $\pm$ 0.444 χ^2 /NDF: 7806.6/34

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF:7400.2/24

Right Out: 100.611 $\pm$ 0.448 χ^2 /NDF: 8688.2/36

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF:5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

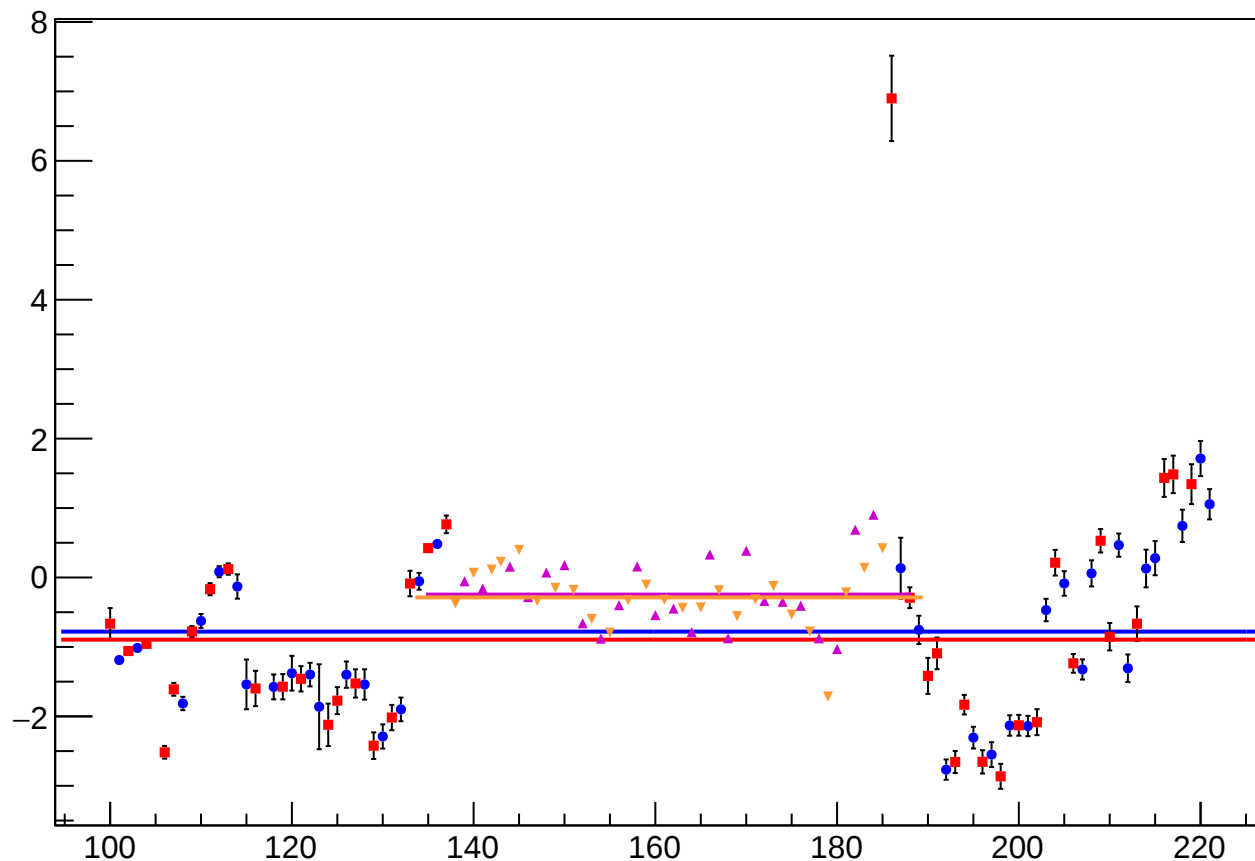
Right: 101.490 $\pm$ 0.315 χ^2 /NDF: 16502.4/71

In: 106.386 $\pm$ 0.184 χ^2 /NDF:13471.6/57

Out: 107.508 $\pm$ 0.181 χ^2 /NDF:16371.6/61

All: 106.958 $\pm$ 0.129 χ^2 /NDF: 29862.1/119

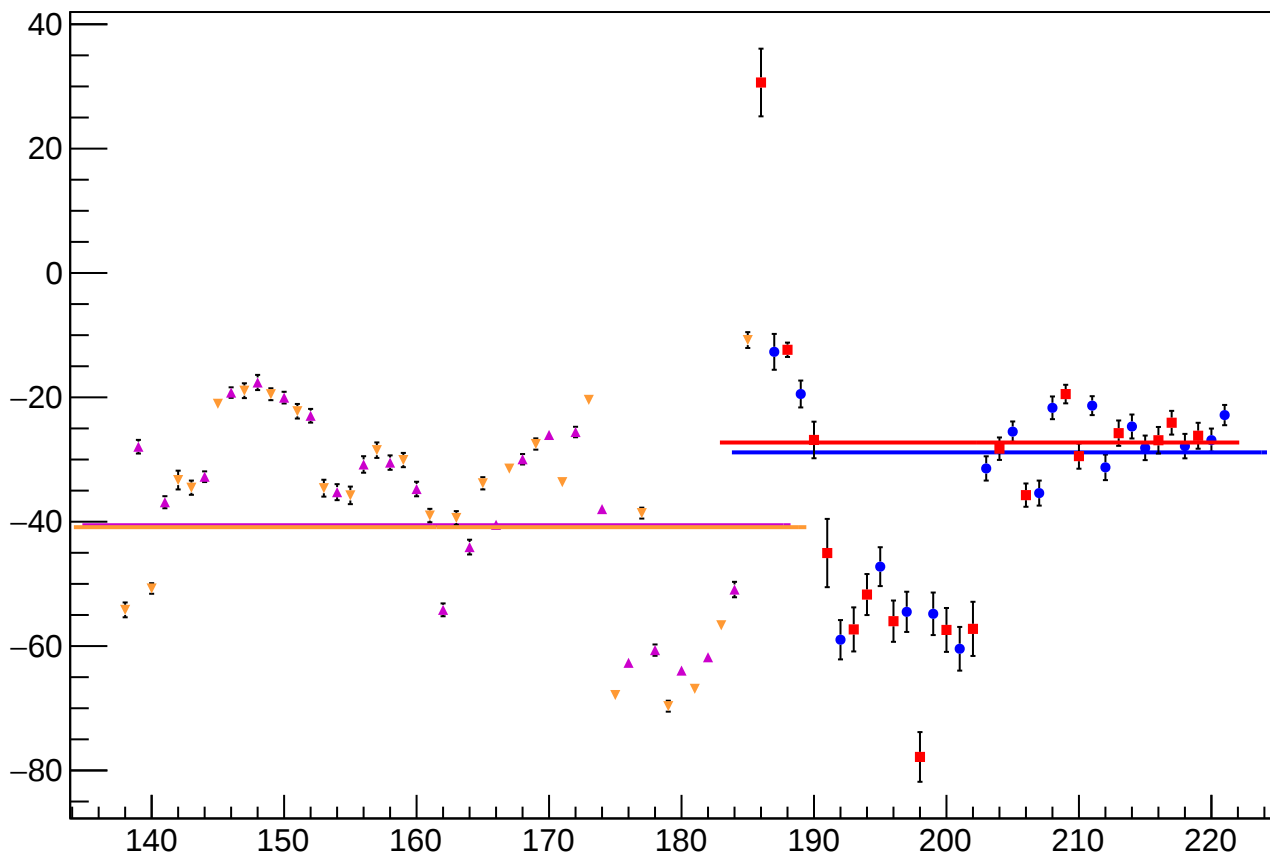
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.780 ± 0.022 $\chi^2/\text{NDF}: 1909.4/34$
 Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$
 Right Out: -0.895 ± 0.021 $\chi^2/\text{NDF}: 2327.4/36$
 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: -0.839 ± 0.015 $\chi^2/\text{NDF}: 4250.9/71$
 In: -0.326 ± 0.009 $\chi^2/\text{NDF}: 5193.4/57$
 Out: -0.380 ± 0.008 $\chi^2/\text{NDF}: 5067.4/61$
 All: -0.353 ± 0.006 $\chi^2/\text{NDF}: 10281.5/119$

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected

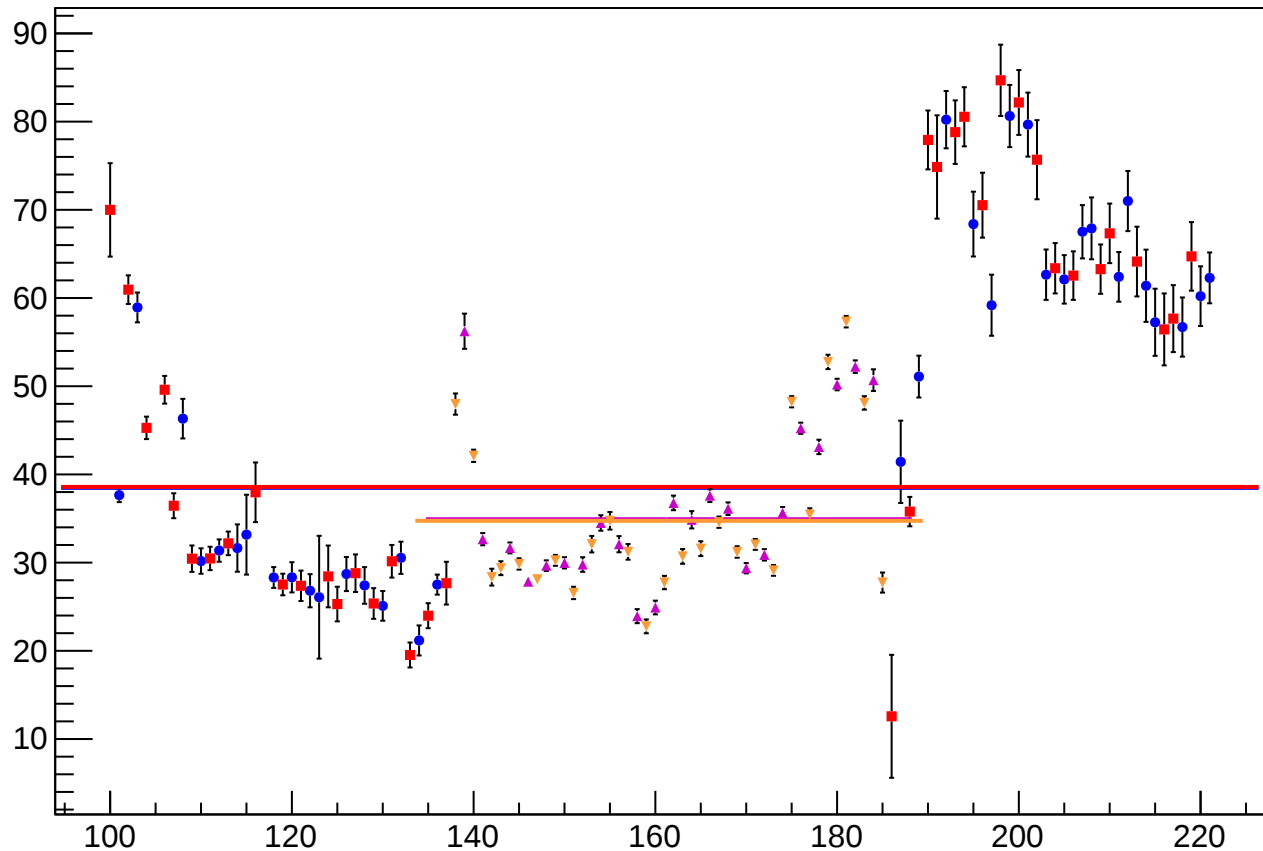


Right In: -28.850 ± 0.494 $\chi^2/\text{NDF}: 454.4/17$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -27.263 ± 0.524 $\chi^2/\text{NDF}: 825.2/17$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -28.104 ± 0.359 $\chi^2/\text{NDF}: 1284.4/35$
 In: -39.058 ± 0.177 $\chi^2/\text{NDF}: 7899.5/40$
 Out: -39.355 ± 0.175 $\chi^2/\text{NDF}: 10547.6/42$

All: -39.208 ± 0.125 $\chi^2/\text{NDF}: 18448.5/83$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.479 $\pm$ 0.337 χ^2 /NDF: 1949.1/34

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 38.580 $\pm$ 0.341 χ^2 /NDF: 2301.2/36

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

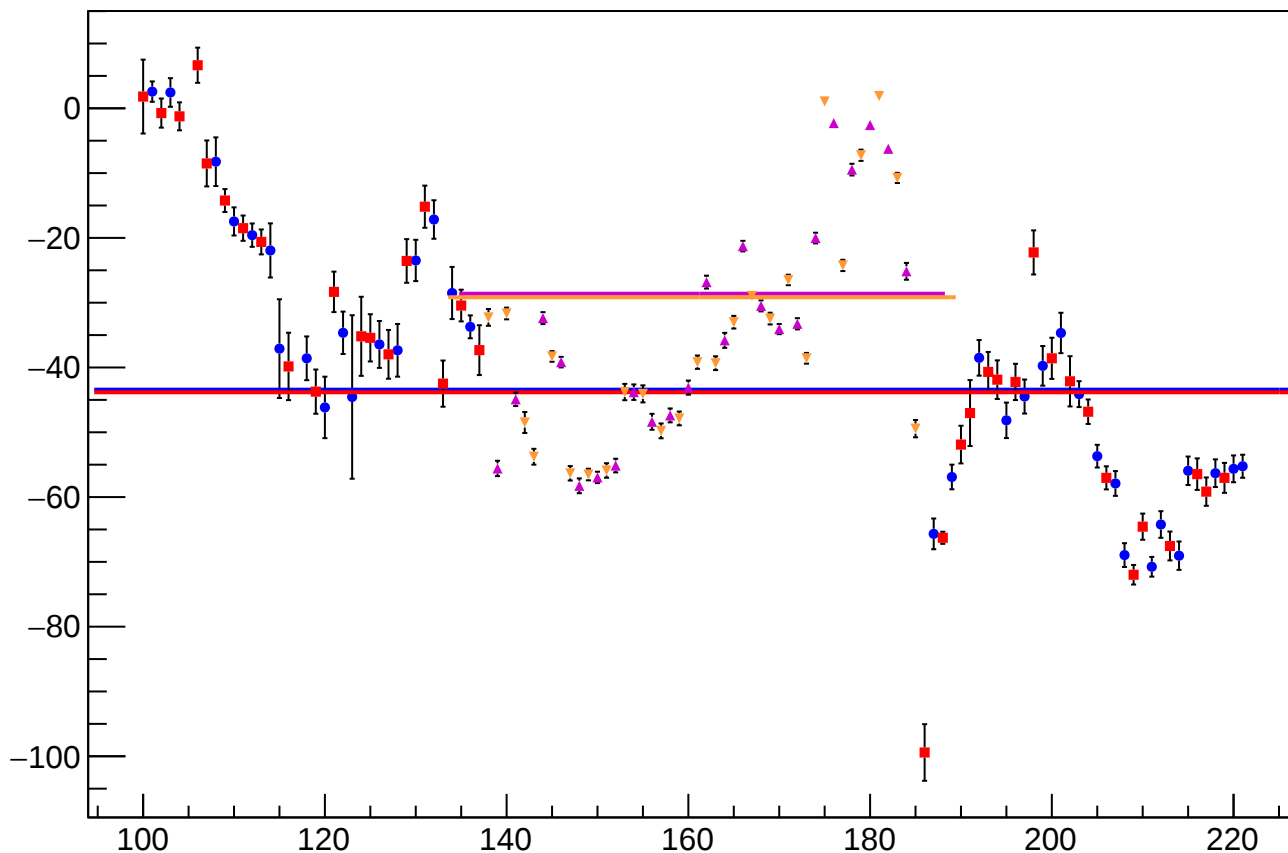
Right: 38.529 $\pm$ 0.240 χ^2 /NDF: 4250.3/71

In: 35.520 $\pm$ 0.138 χ^2 /NDF:4714.5/57

Out: 35.346 $\pm$ 0.135 χ^2 /NDF:6101.2/61

All: 35.431 $\pm$ 0.097 χ^2 /NDF: 10816.5/119

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.423 ± 0.398 χ^2/NDF : 3043.7/34

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -43.827 ± 0.395 χ^2/NDF : 3568.6/36

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

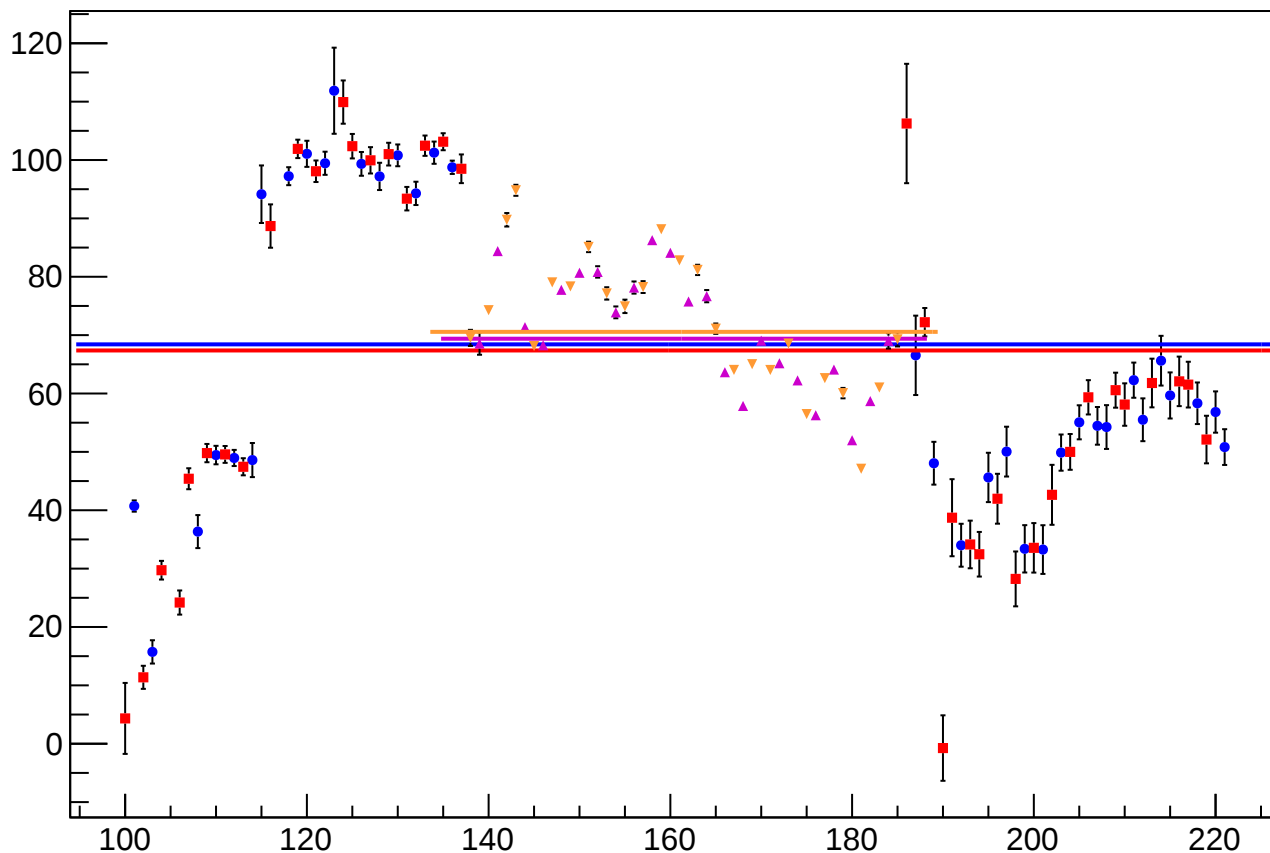
Right: -43.627 ± 0.280 χ^2/NDF : 6612.9/71

In: -31.360 ± 0.171 χ^2/NDF : 13212.0/57

Out: -31.847 ± 0.169 χ^2/NDF : 14819.9/61

All: -31.607 ± 0.120 χ^2/NDF : 28036.0/119

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.419+/-0.384 χ^2/NDF : 5239.1/34

Left Out: 70.563+/-0.166 χ^2/NDF : 4589.1/24

Right Out: 67.373+/-0.392 χ^2/NDF : 6153.4/36

Left In: 69.387+/-0.170 χ^2/NDF : 3321.8/22

Left: 69.989+/-0.119 χ^2/NDF : 7935.4/47

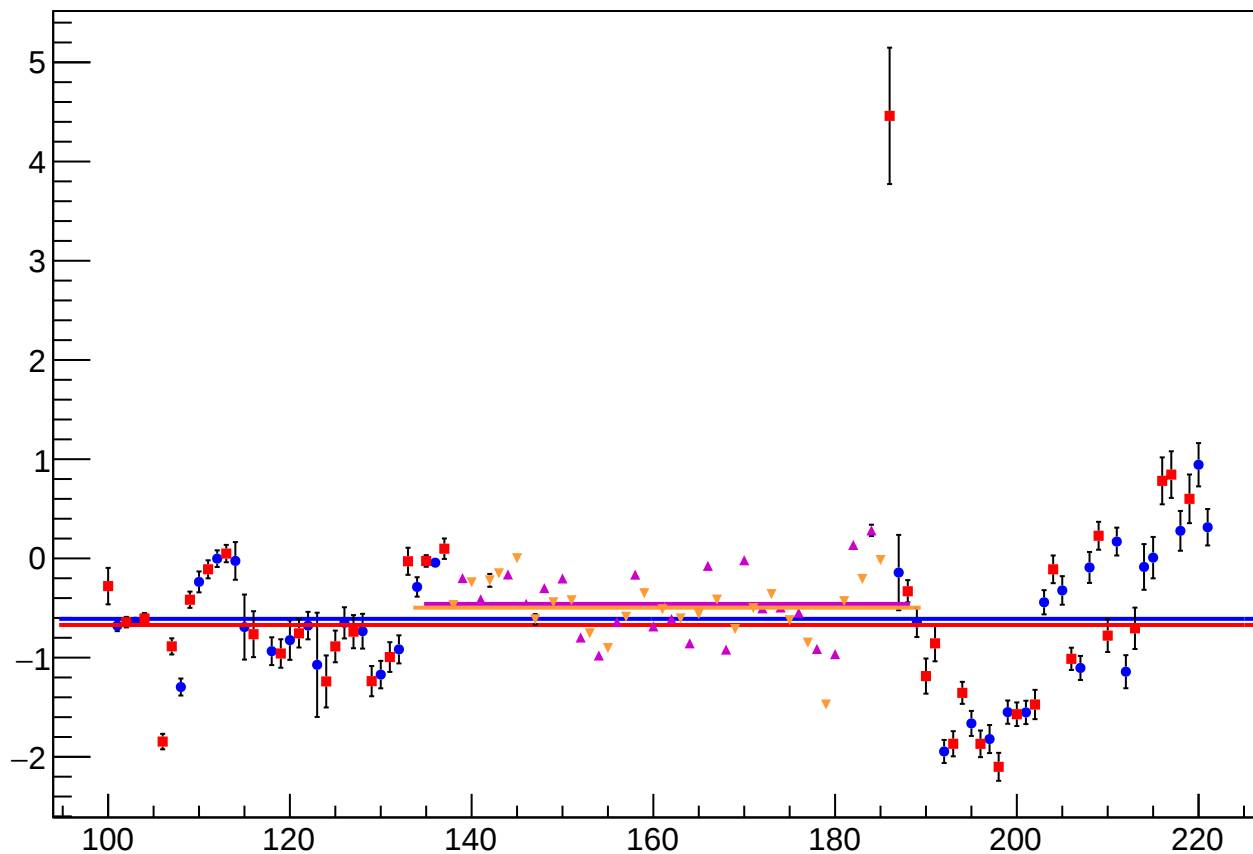
Right: 67.907+/-0.274 χ^2/NDF : 11396.2/71

In: 69.228+/-0.156 χ^2/NDF : 8566.3/57

Out: 70.076+/-0.153 χ^2/NDF : 10798.7/61

All: 69.659+/-0.109 χ^2/NDF : 19380.1/119

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected

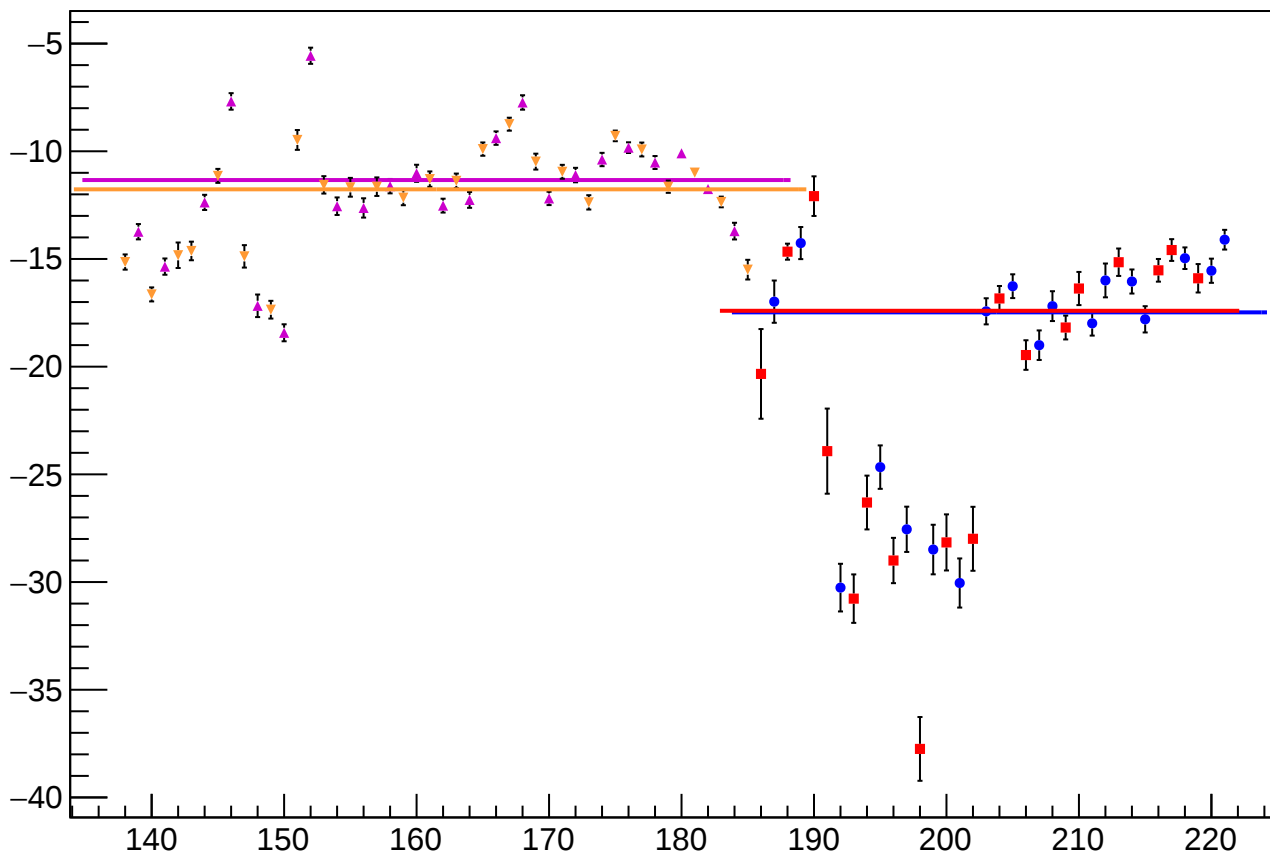


Right In: -0.609 ± 0.019 χ^2/NDF : 916.1/34
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.671 ± 0.018 χ^2/NDF : 1230.0/36
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.641 ± 0.013 χ^2/NDF : 2151.6/71
 In: -0.480 ± 0.007 χ^2/NDF : 2929.0/57
 Out: -0.522 ± 0.007 χ^2/NDF : 2756.5/61

All: -0.502 ± 0.005 χ^2/NDF : 5702.8/119

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected

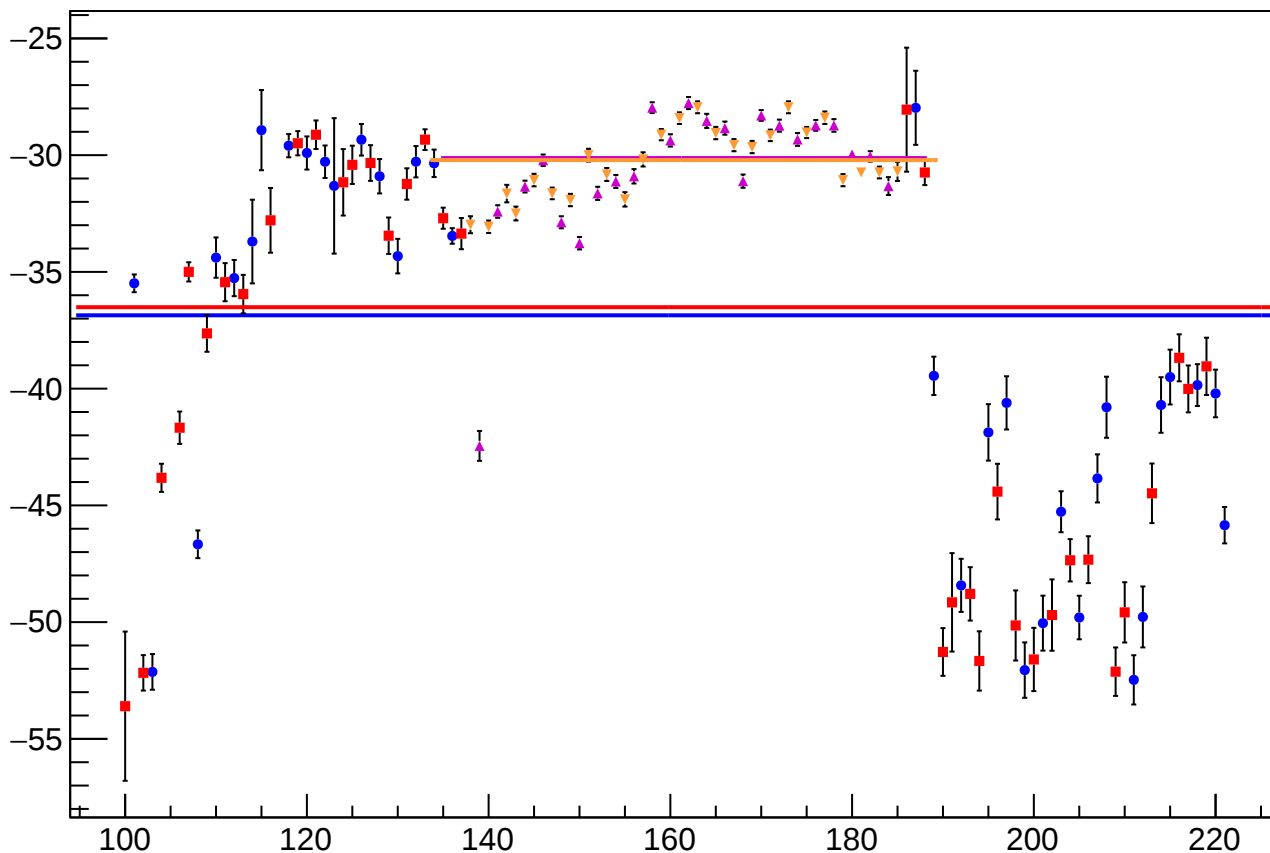


Right In: -17.479 ± 0.158 χ^2/NDF : 620.4/17
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -17.406 ± 0.169 χ^2/NDF : 797.3/17
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -17.445 ± 0.116 χ^2/NDF : 1417.8/35
 In: -12.292 ± 0.063 χ^2/NDF : 3158.3/40
 Out: -12.527 ± 0.062 χ^2/NDF : 2782.8/42

All: -12.411 ± 0.044 χ^2/NDF : 5948.2/83

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.859 ± 0.130 χ^2/NDF : 2938.6/34

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -36.511 ± 0.130 χ^2/NDF : 3178.7/36

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

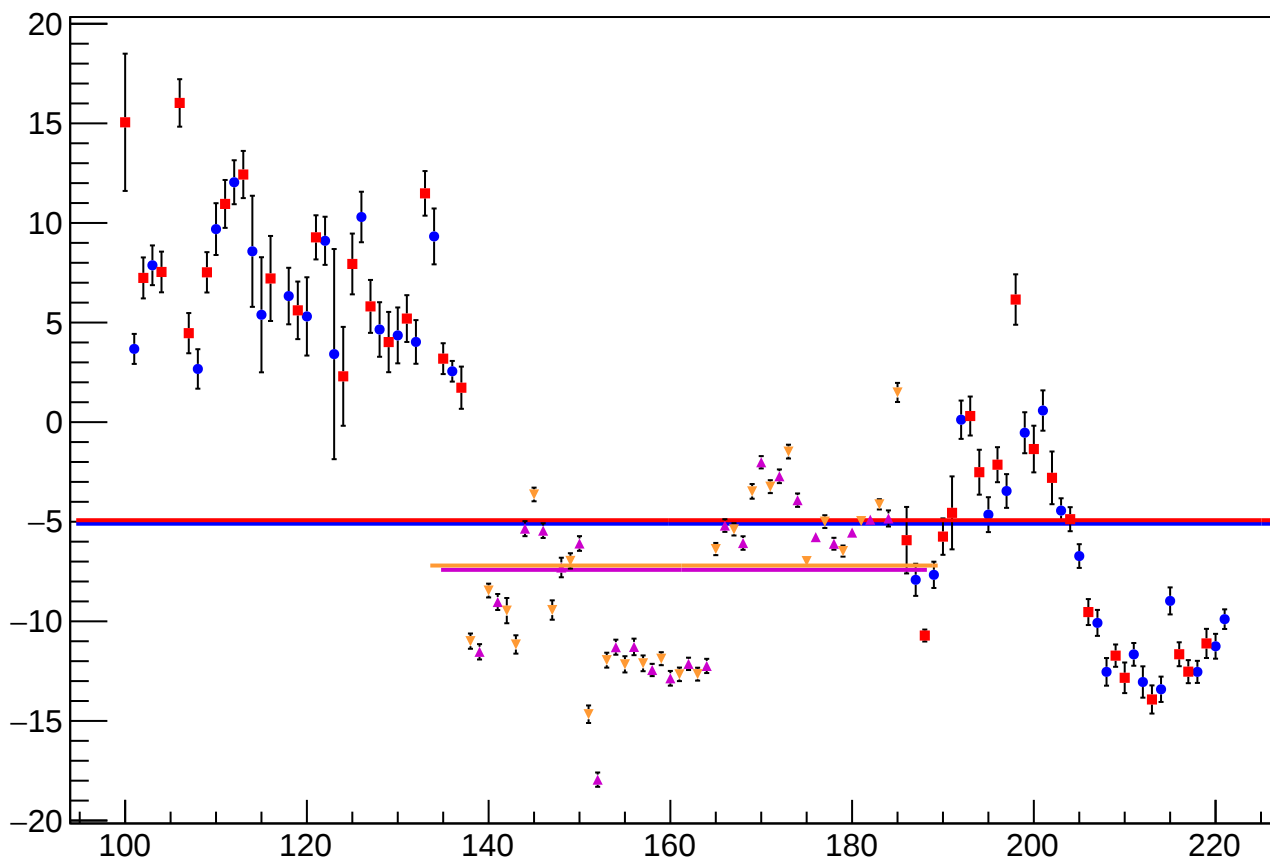
Right: -36.686 ± 0.092 χ^2/NDF : 6120.9/71

In: -31.169 ± 0.051 χ^2/NDF : 6448.3/57

Out: -31.134 ± 0.050 χ^2/NDF : 5914.7/61

All: -31.151 ± 0.036 χ^2/NDF : 12363.3/119

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.098 ± 0.138 $\chi^2/\text{NDF}: 2748.1/34$

Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$

Right Out: -4.923 ± 0.140 $\chi^2/\text{NDF}: 3465.2/36$

Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$

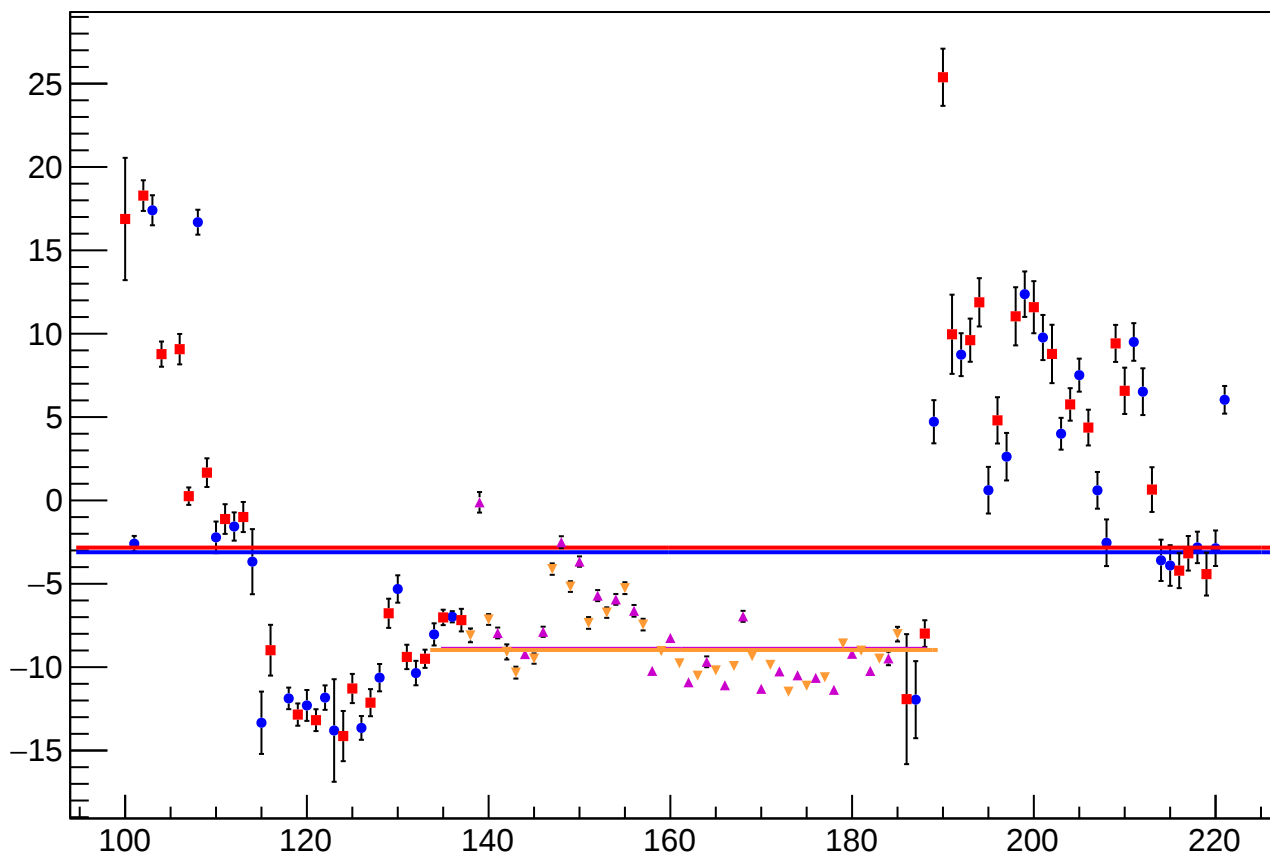
Right: -5.012 ± 0.098 $\chi^2/\text{NDF}: 6214.1/71$

In: -6.965 ± 0.061 $\chi^2/\text{NDF}: 6097.6/57$

Out: -6.777 ± 0.060 $\chi^2/\text{NDF}: 6716.9/61$

All: -6.870 ± 0.043 $\chi^2/\text{NDF}: 12819.3/119$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.109 ± 0.146 χ^2/NDF : 3139.5/34

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.829 ± 0.150 χ^2/NDF : 3240.7/36

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

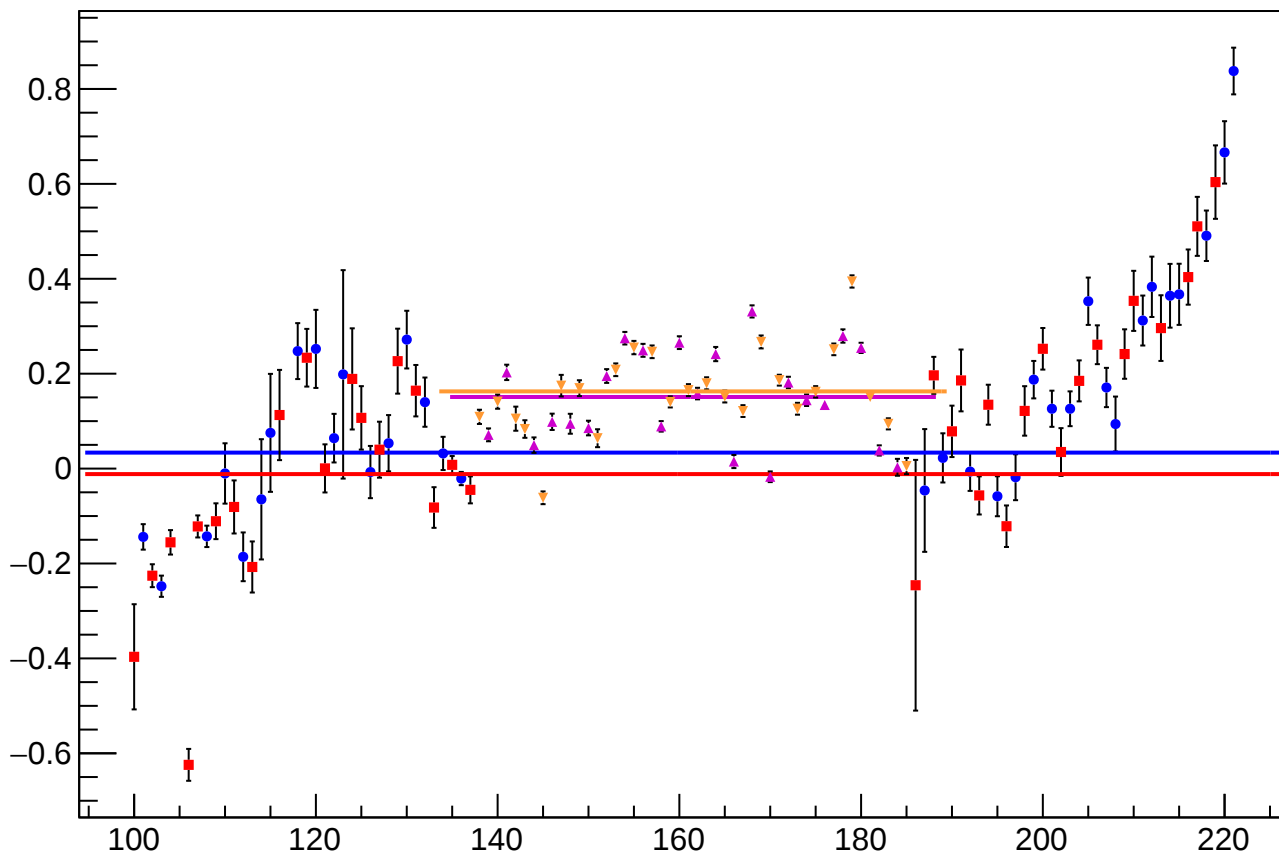
Right: -2.973 ± 0.104 χ^2/NDF : 6381.9/71

In: -8.020 ± 0.057 χ^2/NDF : 6015.2/57

Out: -8.120 ± 0.056 χ^2/NDF : 5561.9/61

All: -8.070 ± 0.040 χ^2/NDF : 11578.7/119

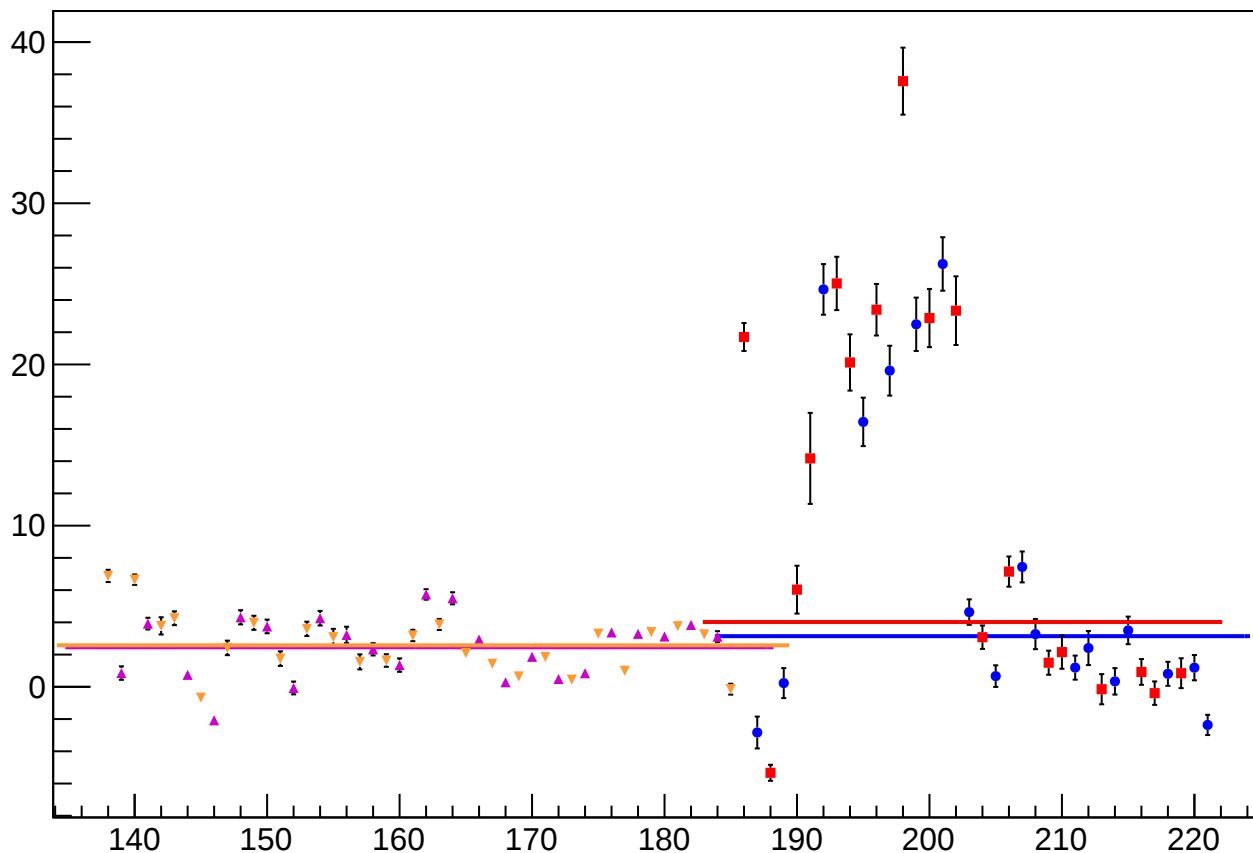
reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.007 χ^2 /NDF: 970.2/34
 Left Out: 0.163 $\pm$ 0.003 χ^2 /NDF:1018.1/24
 Right Out: -0.012 $\pm$ 0.007 χ^2 /NDF: 982.5/36
 Left In: 0.151 $\pm$ 0.003 χ^2 /NDF:1286.5/22

Left: 0.157 $\pm$ 0.002 χ^2 /NDF: 2313.9/47
 Right: 0.011 $\pm$ 0.005 χ^2 /NDF: 1974.5/71
 In: 0.134 $\pm$ 0.003 χ^2 /NDF:2511.4/57
 Out: 0.139 $\pm$ 0.003 χ^2 /NDF:2551.1/61
 All: 0.137 $\pm$ 0.002 χ^2 /NDF: 5064.4/119

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.142 ± 0.215 $\chi^2/\text{NDF}: 905.5/17$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 4.020 ± 0.227 $\chi^2/\text{NDF}: 1742.7/17$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

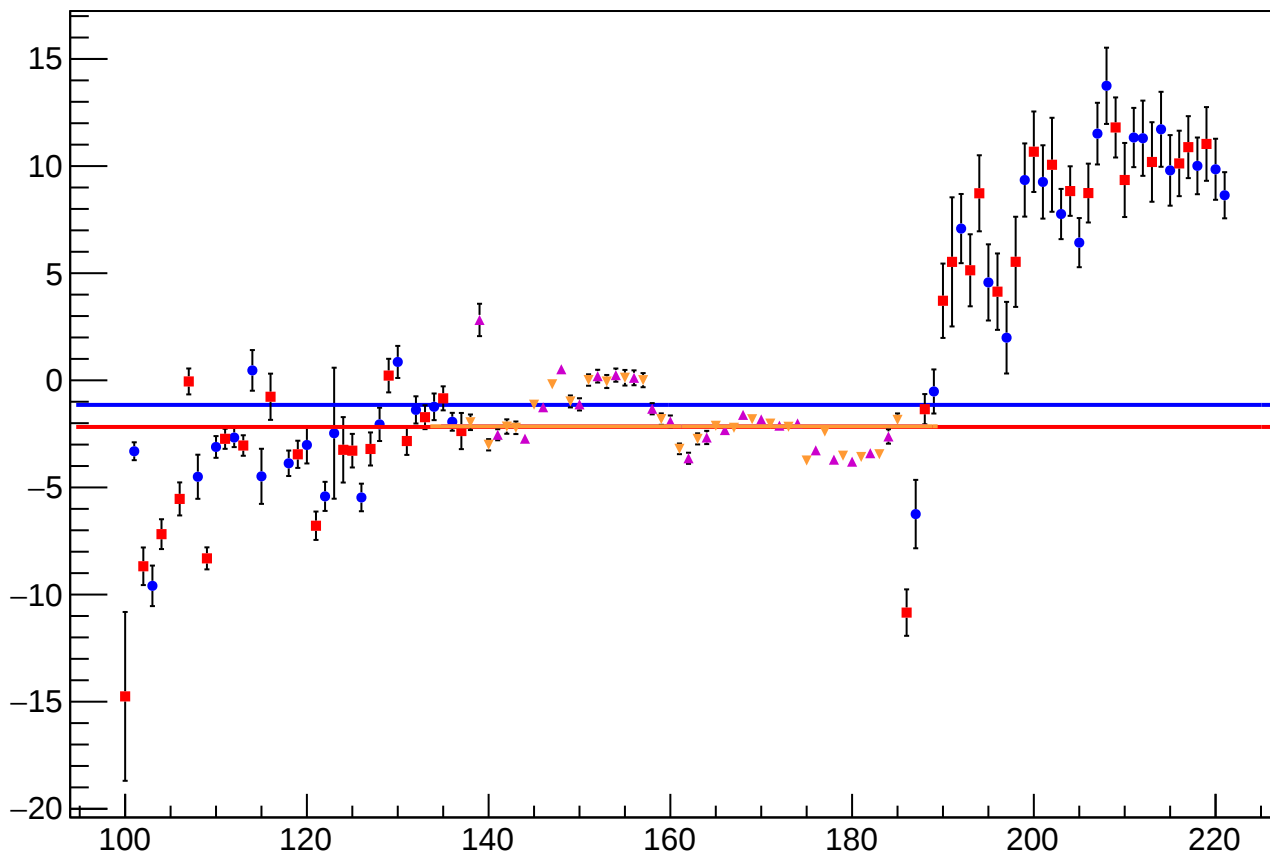
Right: 3.556 ± 0.156 $\chi^2/\text{NDF}: 2656.1/35$

In: 2.501 ± 0.057 $\chi^2/\text{NDF}: 1786.3/40$

Out: 2.666 ± 0.056 $\chi^2/\text{NDF}: 2648.0/42$

All: 2.585 ± 0.040 $\chi^2/\text{NDF}: 4438.5/83$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



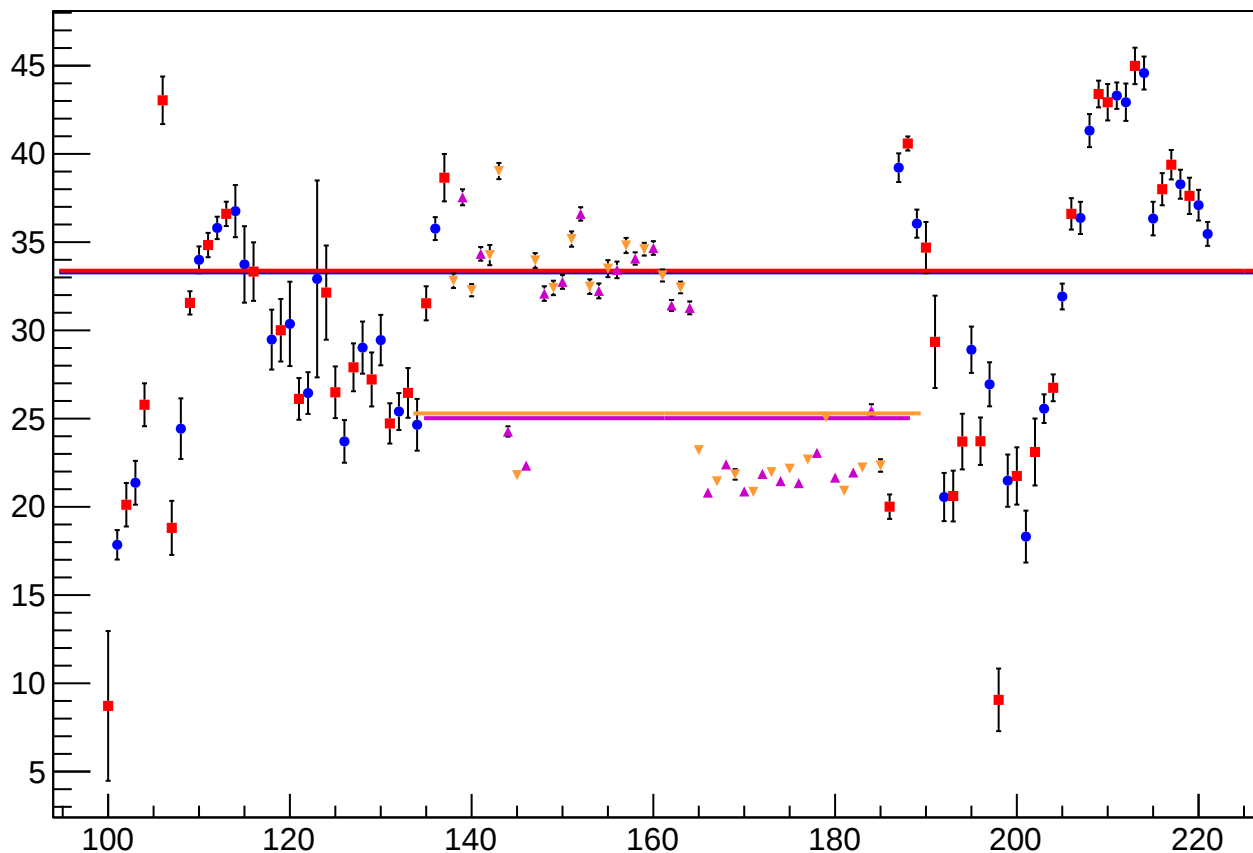
Right In: -1.147 ± 0.141 $\chi^2/\text{NDF}: 1093.2/34$
 Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$
 Right Out: -2.177 ± 0.141 $\chi^2/\text{NDF}: 1161.8/36$
 Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$
 Right: -1.662 ± 0.100 $\chi^2/\text{NDF}: 2281.7/71$

In: -2.032 ± 0.046 $\chi^2/\text{NDF}: 1828.6/57$
 Out: -2.149 ± 0.045 $\chi^2/\text{NDF}: 1735.2/61$

All: -2.091 ± 0.032 $\chi^2/\text{NDF}: 3567.0/119$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.286 $\pm$ 0.168 χ^2 /NDF: 1726.9/34

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24

Right Out: 33.382 $\pm$ 0.166 χ^2 /NDF: 2268.2/36

Left In: 25.025 $\pm$ 0.060 χ^2 /NDF: 7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47

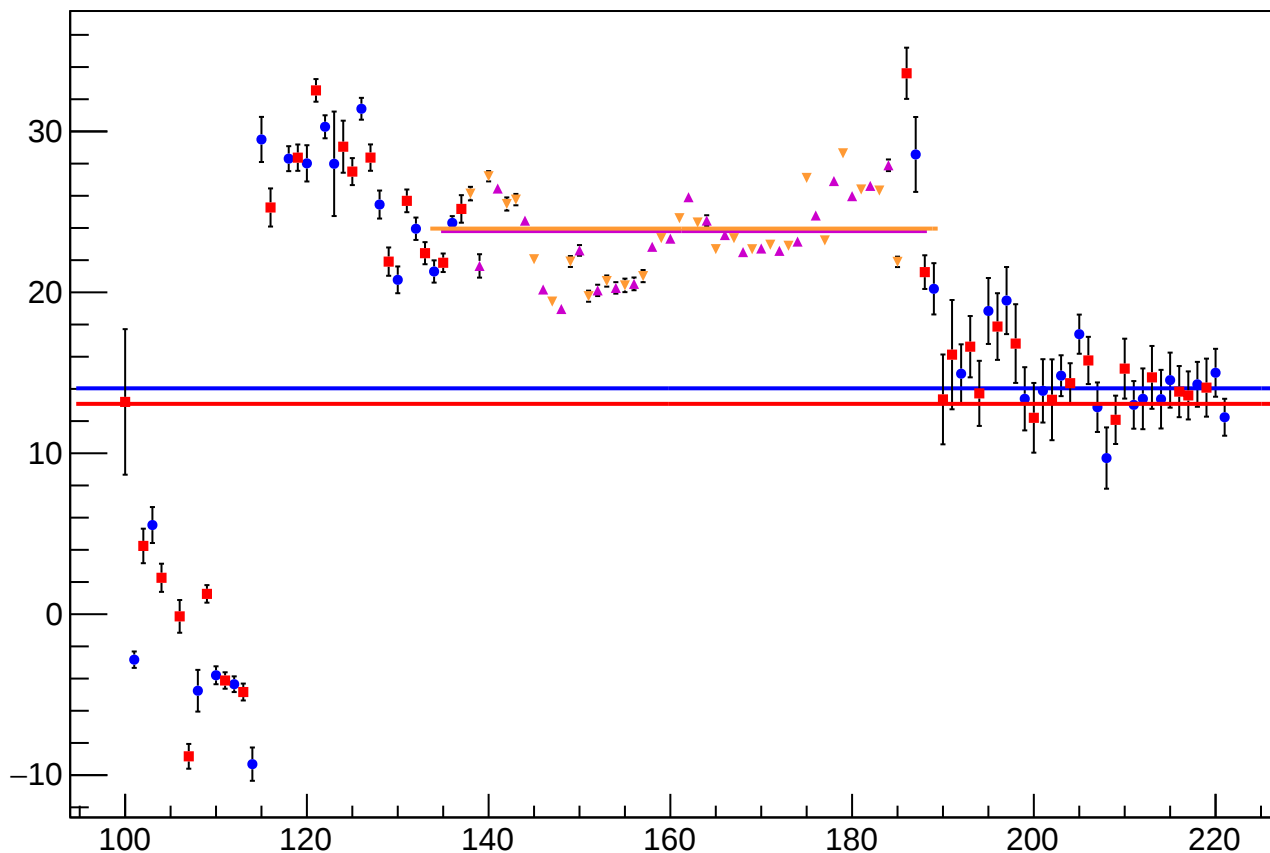
Right: 33.335 $\pm$ 0.118 χ^2 /NDF: 3995.3/71

In: 25.947 $\pm$ 0.056 χ^2 /NDF: 11480.4/57

Out: 26.199 $\pm$ 0.055 χ^2 /NDF: 12649.3/61

All: 26.074 $\pm$ 0.039 χ^2 /NDF: 24139.8/119

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.036 $\pm$ 0.157 χ^2 /NDF: 7360.5/34

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.071 $\pm$ 0.160 χ^2 /NDF: 7215.5/36

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

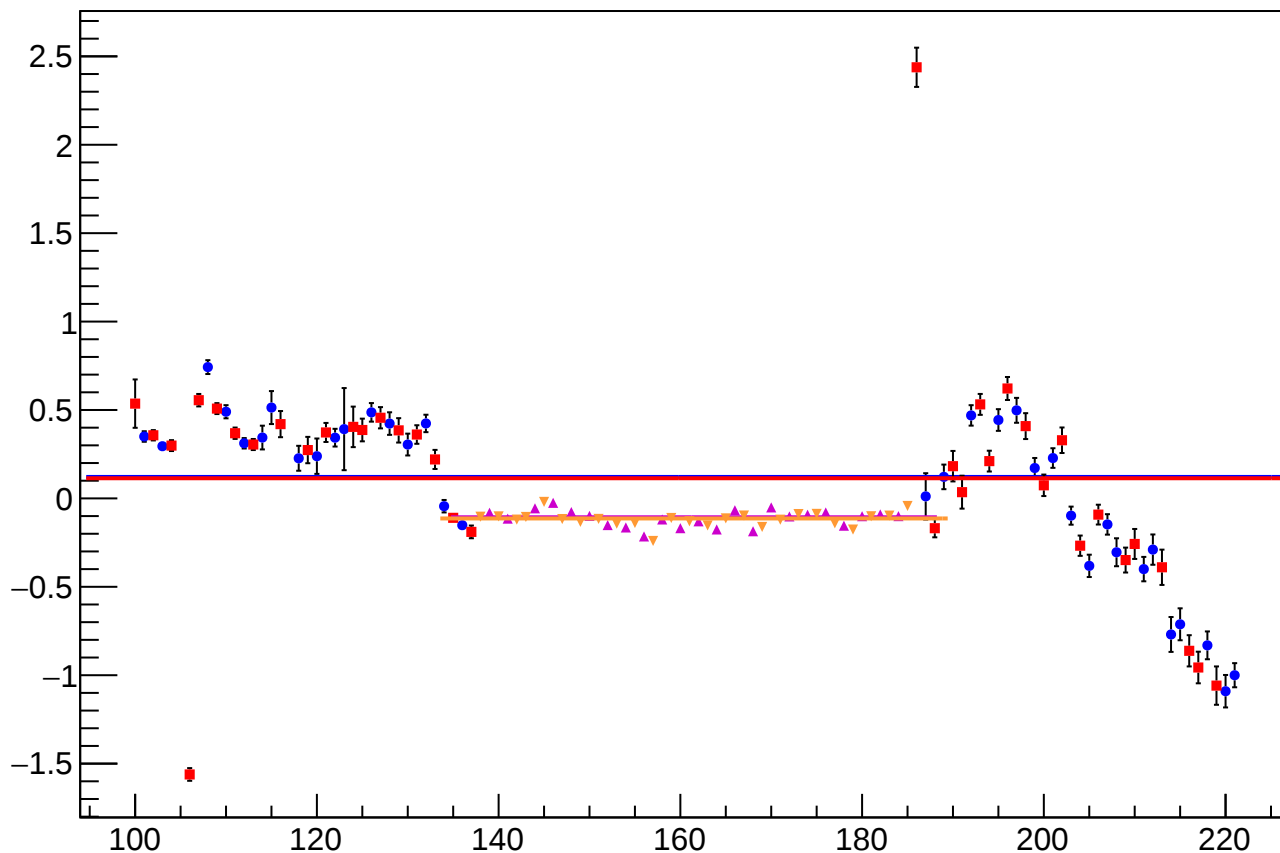
Right: 13.561 $\pm$ 0.112 χ^2 /NDF: 14594.6/71

In: 22.775 $\pm$ 0.051 χ^2 /NDF:12568.1/57

Out: 22.878 $\pm$ 0.050 χ^2 /NDF:13315.0/61

All: 22.827 $\pm$ 0.036 χ^2 /NDF: 25885.2/119

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.121+/-0.008 χ^2/NDF : 1992.9/34

Left Out: -0.113+/-0.002 χ^2/NDF : 291.0/24

Right Out: 0.114+/-0.008 χ^2/NDF : 4158.2/36

Left In: -0.107+/-0.002 χ^2/NDF : 321.8/22

Left: -0.110+/-0.002 χ^2/NDF : 616.6/47

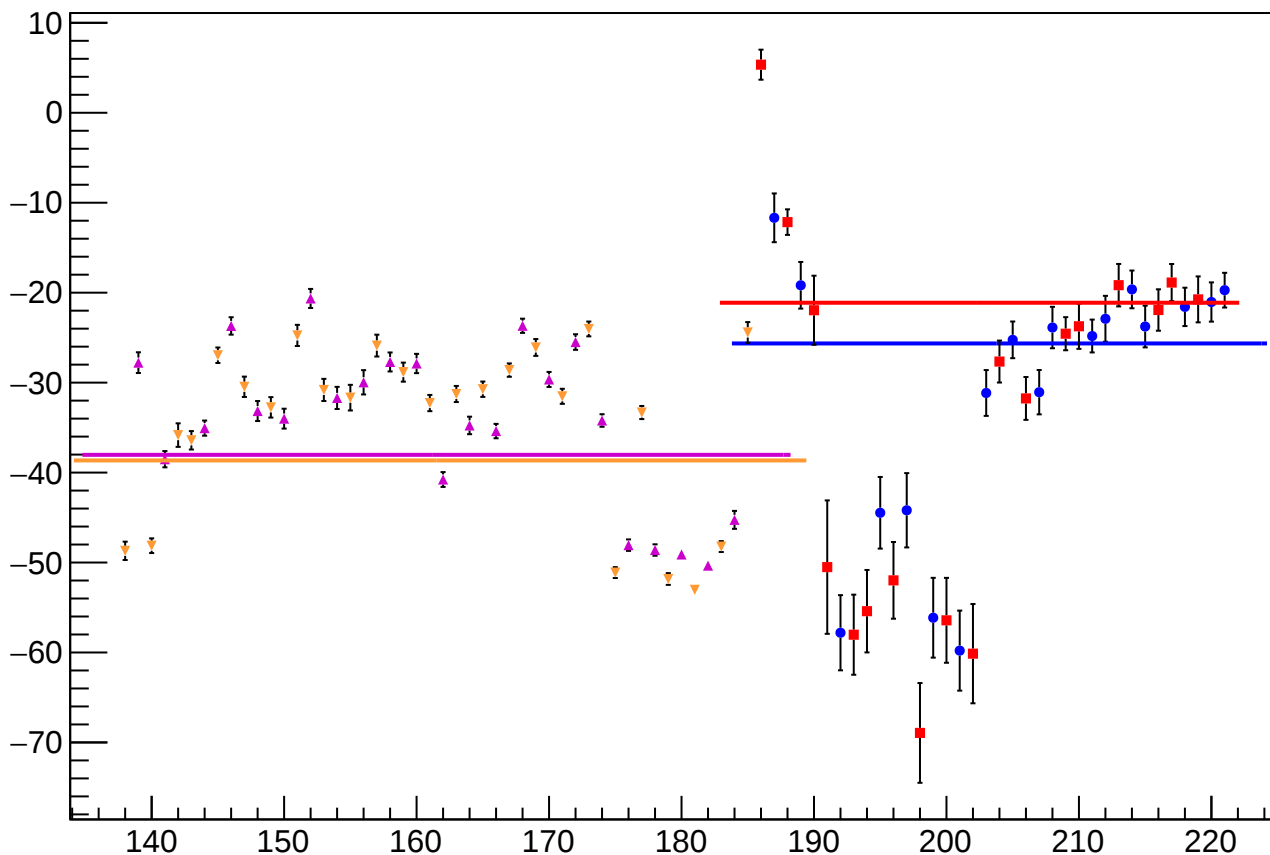
Right: 0.118+/-0.006 χ^2/NDF : 6151.5/71

In: -0.087+/-0.002 χ^2/NDF : 3037.3/57

Out: -0.095+/-0.002 χ^2/NDF : 5176.8/61

All: -0.091+/-0.002 χ^2/NDF : 8218.9/119

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -25.644 ± 0.589 χ^2/NDF : 278.6/17

Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24

Right Out: -21.119 ± 0.600 χ^2/NDF : 698.9/17

Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47

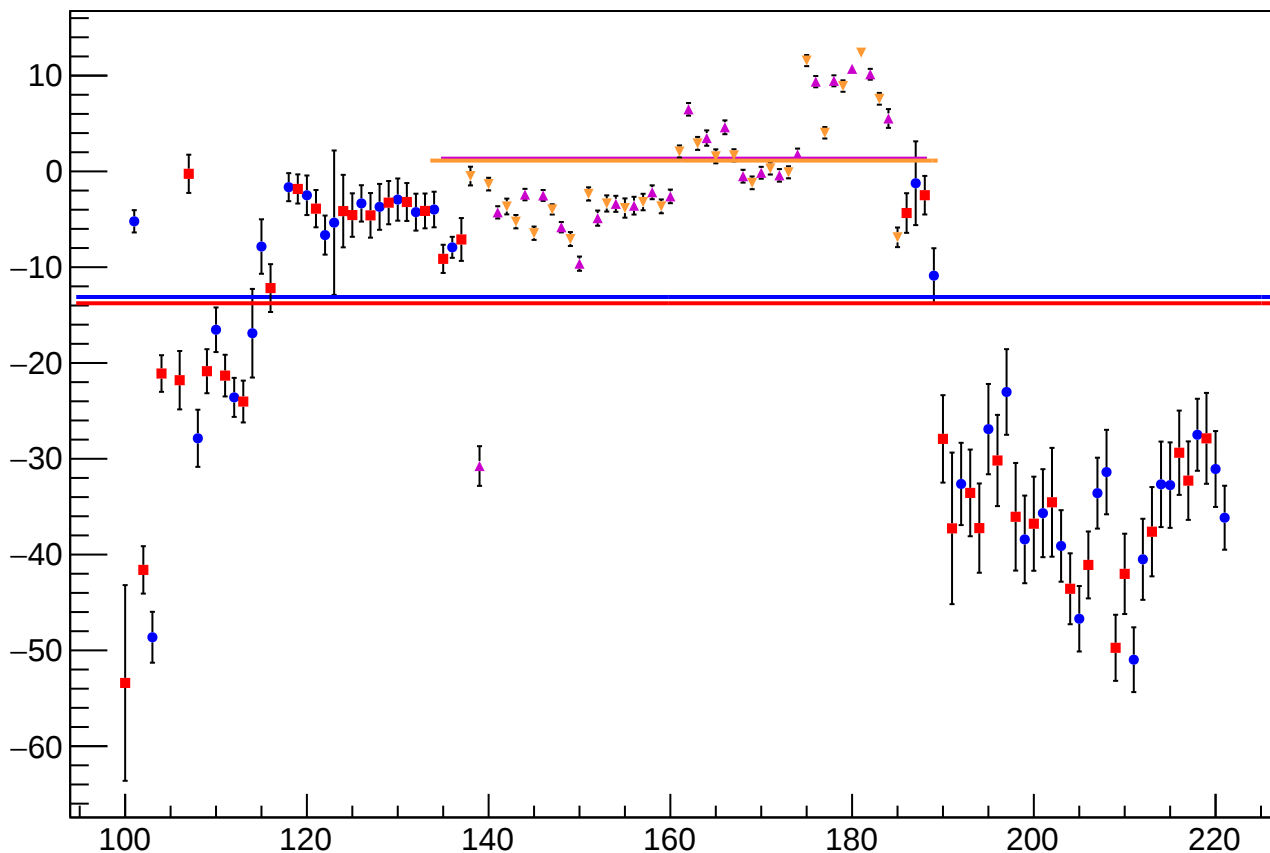
Right: -23.423 ± 0.421 χ^2/NDF : 1006.4/35

In: -37.043 ± 0.166 χ^2/NDF : 3776.8/40

Out: -37.361 ± 0.163 χ^2/NDF : 5566.3/42

All: -37.205 ± 0.116 χ^2/NDF : 9345.0/83

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.112 ± 0.417 χ^2/NDF : 1089.8/34

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.766 ± 0.429 χ^2/NDF : 1002.2/36

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

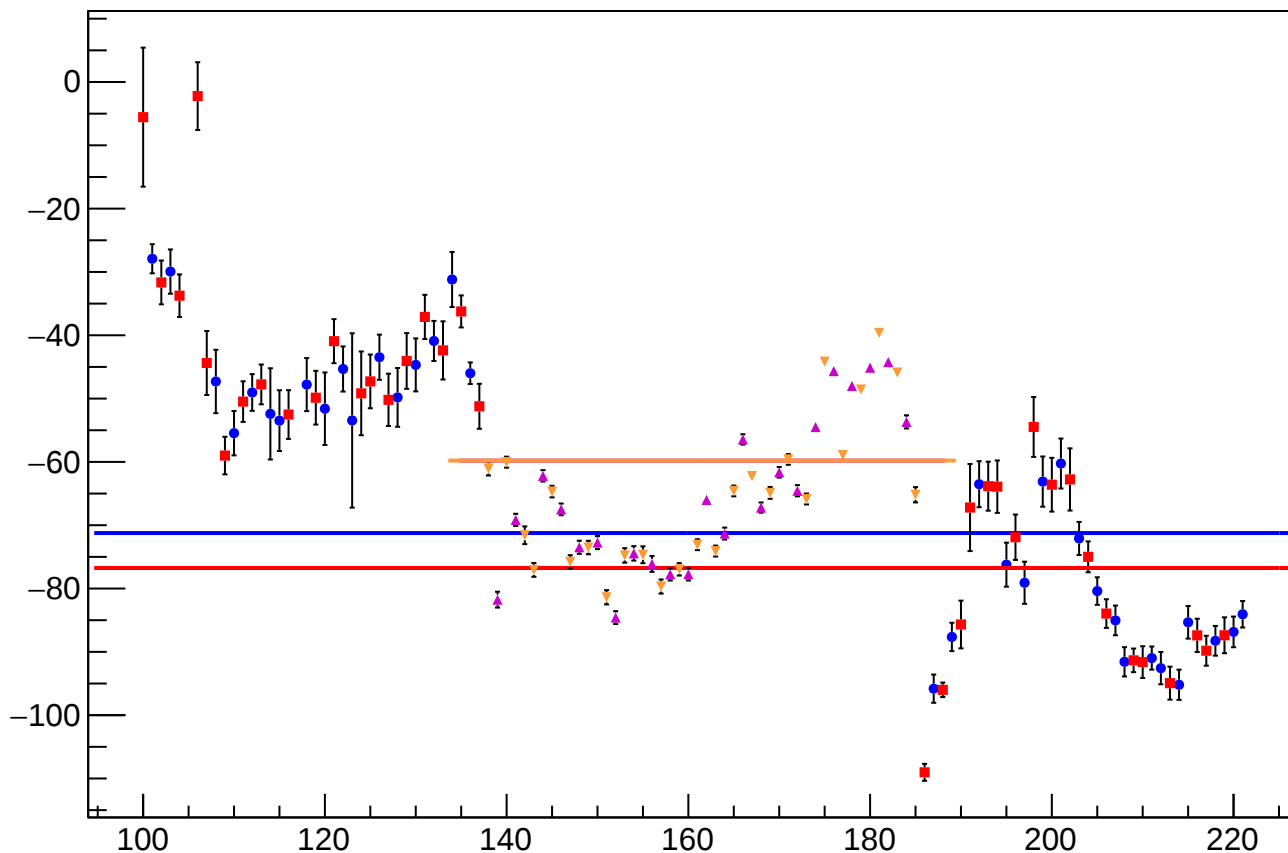
Right: -13.429 ± 0.299 χ^2/NDF : 2093.3/71

In: -0.133 ± 0.133 χ^2/NDF : 4217.8/57

Out: -0.227 ± 0.130 χ^2/NDF : 3894.9/61

All: -0.181 ± 0.093 χ^2/NDF : 8113.0/119

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.234 ± 0.483 χ^2/NDF : 2009.3/34

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -76.753 ± 0.472 χ^2/NDF : 2791.5/36

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

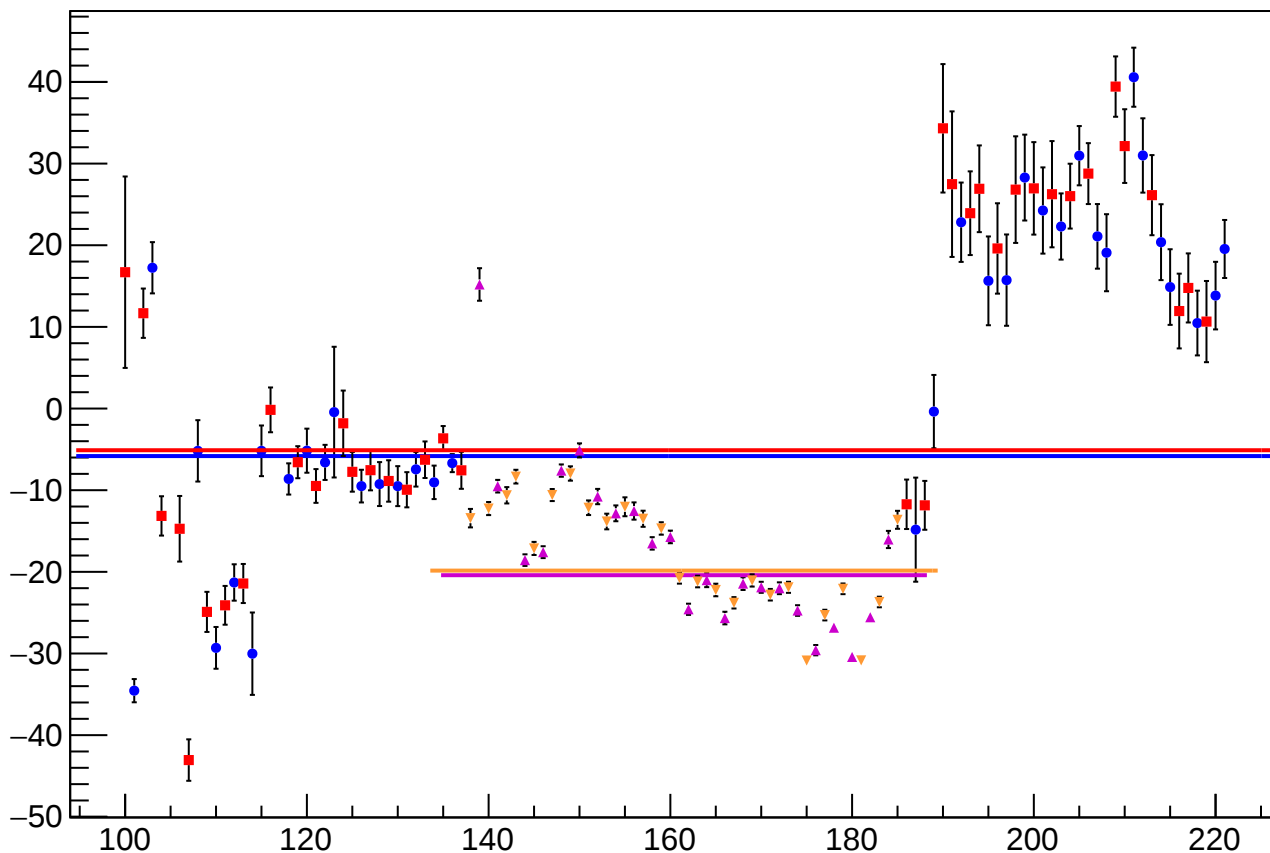
Right: -74.057 ± 0.338 χ^2/NDF : 4867.6/71

In: -61.106 ± 0.163 χ^2/NDF : 7723.2/57

Out: -61.740 ± 0.160 χ^2/NDF : 9773.0/61

All: -61.429 ± 0.114 χ^2/NDF : 17503.8/119

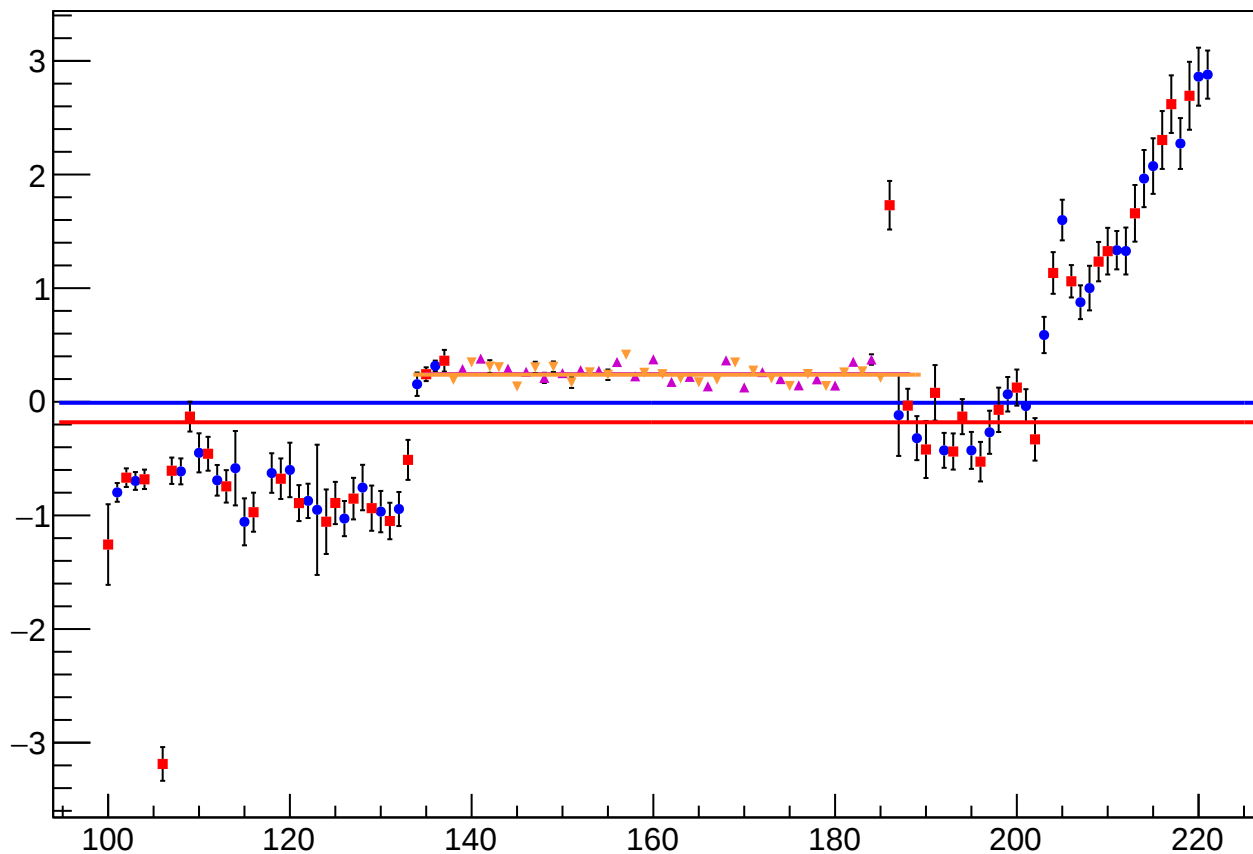
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.821 ± 0.468 $\chi^2/\text{NDF}: 1372.1/34$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -5.106 ± 0.492 $\chi^2/\text{NDF}: 1130.5/36$
 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: -5.481 ± 0.339 $\chi^2/\text{NDF}: 2503.7/71$
 In: -18.941 ± 0.149 $\chi^2/\text{NDF}: 4547.5/57$
 Out: -18.552 ± 0.146 $\chi^2/\text{NDF}: 3880.0/61$
 All: -18.743 ± 0.104 $\chi^2/\text{NDF}: 8431.0/119$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.009 ± 0.023 χ^2/NDF : 1318.8/34

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.180 ± 0.024 χ^2/NDF : 1443.4/36

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

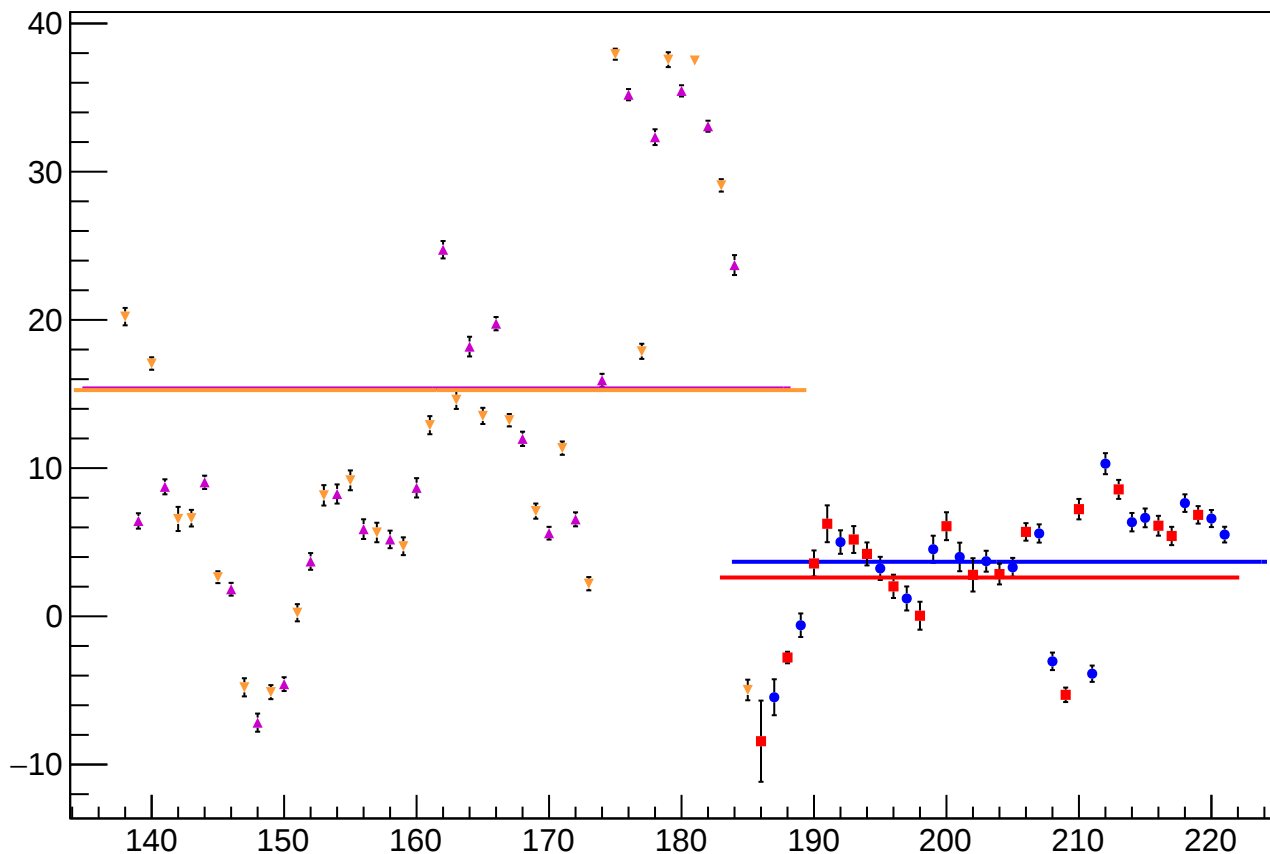
Right: -0.092 ± 0.017 χ^2/NDF : 2788.4/71

In: 0.222 ± 0.007 χ^2/NDF : 1563.6/57

Out: 0.206 ± 0.007 χ^2/NDF : 1815.6/61

All: 0.214 ± 0.005 χ^2/NDF : 3381.8/119

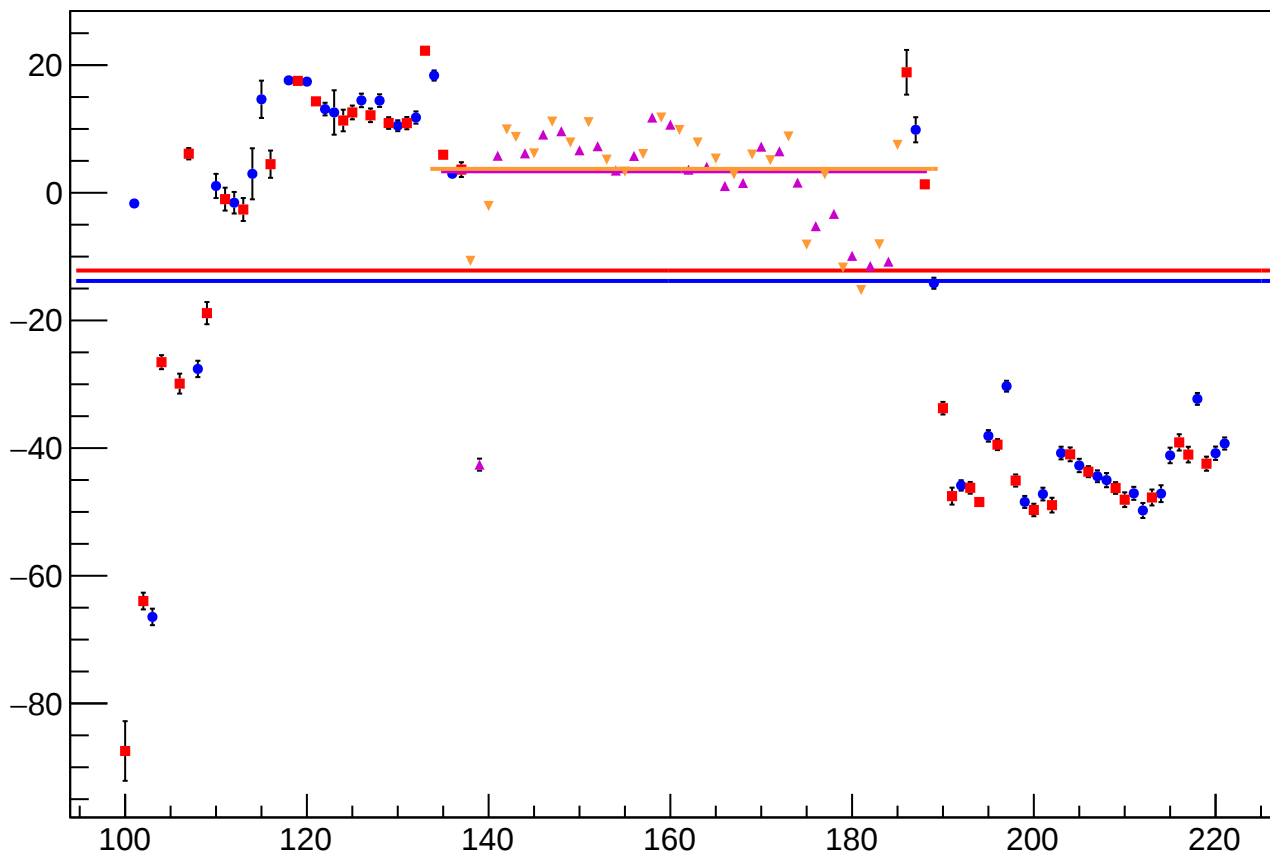
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.679 $\pm$ 0.160 χ^2 /NDF: 636.8/17
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 2.618 $\pm$ 0.163 χ^2 /NDF: 771.8/17
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 3.159 $\pm$ 0.114 χ^2 /NDF: 1430.2/35
 In: 11.961 $\pm$ 0.086 χ^2 /NDF:20690.2/40
 Out: 11.783 $\pm$ 0.086 χ^2 /NDF:24303.9/42
 All: 11.871 $\pm$ 0.061 χ^2 /NDF: 44996.2/83

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.812 ± 0.160 $\chi^2/\text{NDF}: 28605.6/34$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -12.182 ± 0.157 $\chi^2/\text{NDF}: 33040.6/36$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

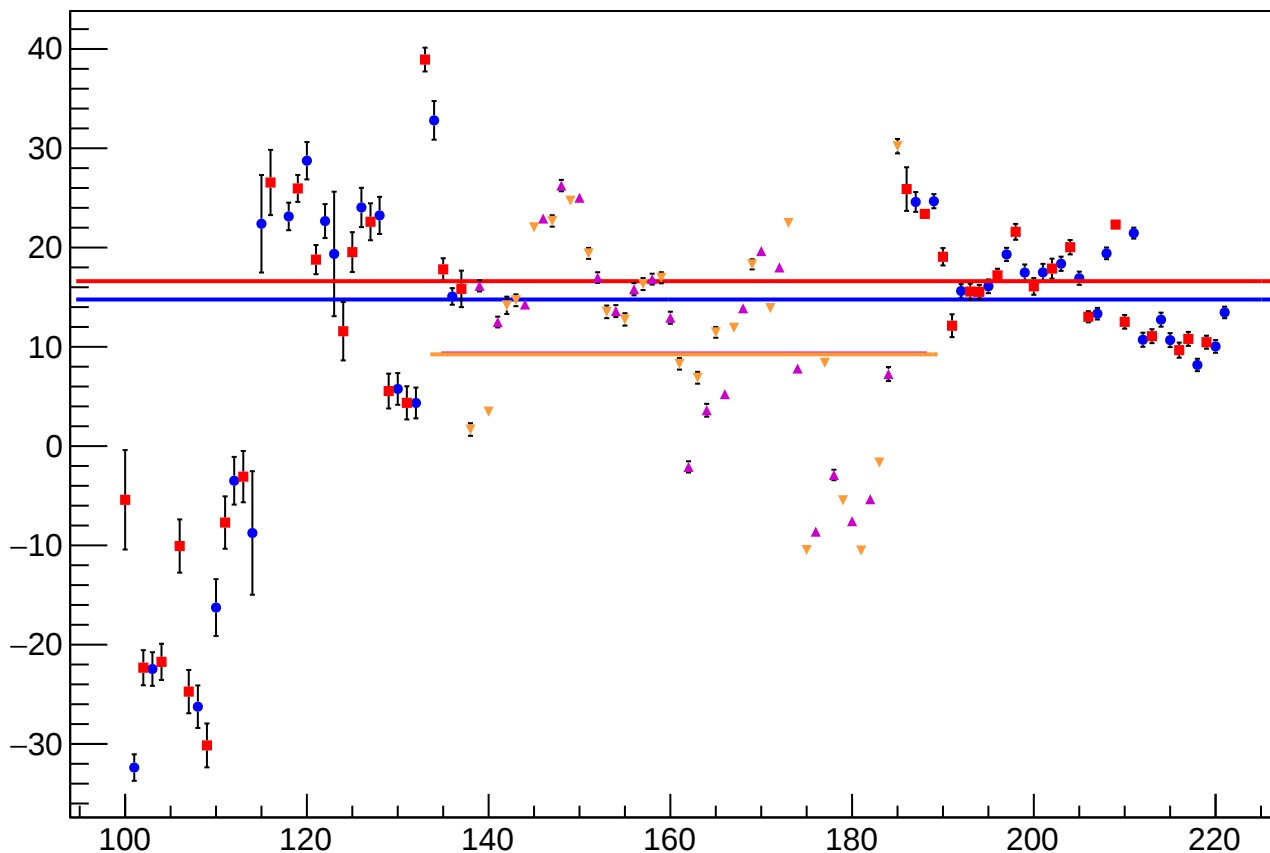
Right: -12.979 ± 0.112 $\chi^2/\text{NDF}: 61698.9/71$

In: -0.138 ± 0.072 $\chi^2/\text{NDF}: 46252.2/57$

Out: 0.544 ± 0.070 $\chi^2/\text{NDF}: 50511.4/61$

All: 0.213 ± 0.050 $\chi^2/\text{NDF}: 96809.2/119$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.767 $\pm$ 0.149 χ^2 /NDF: 3466.1/34

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 16.614 $\pm$ 0.145 χ^2 /NDF: 3589.5/36

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

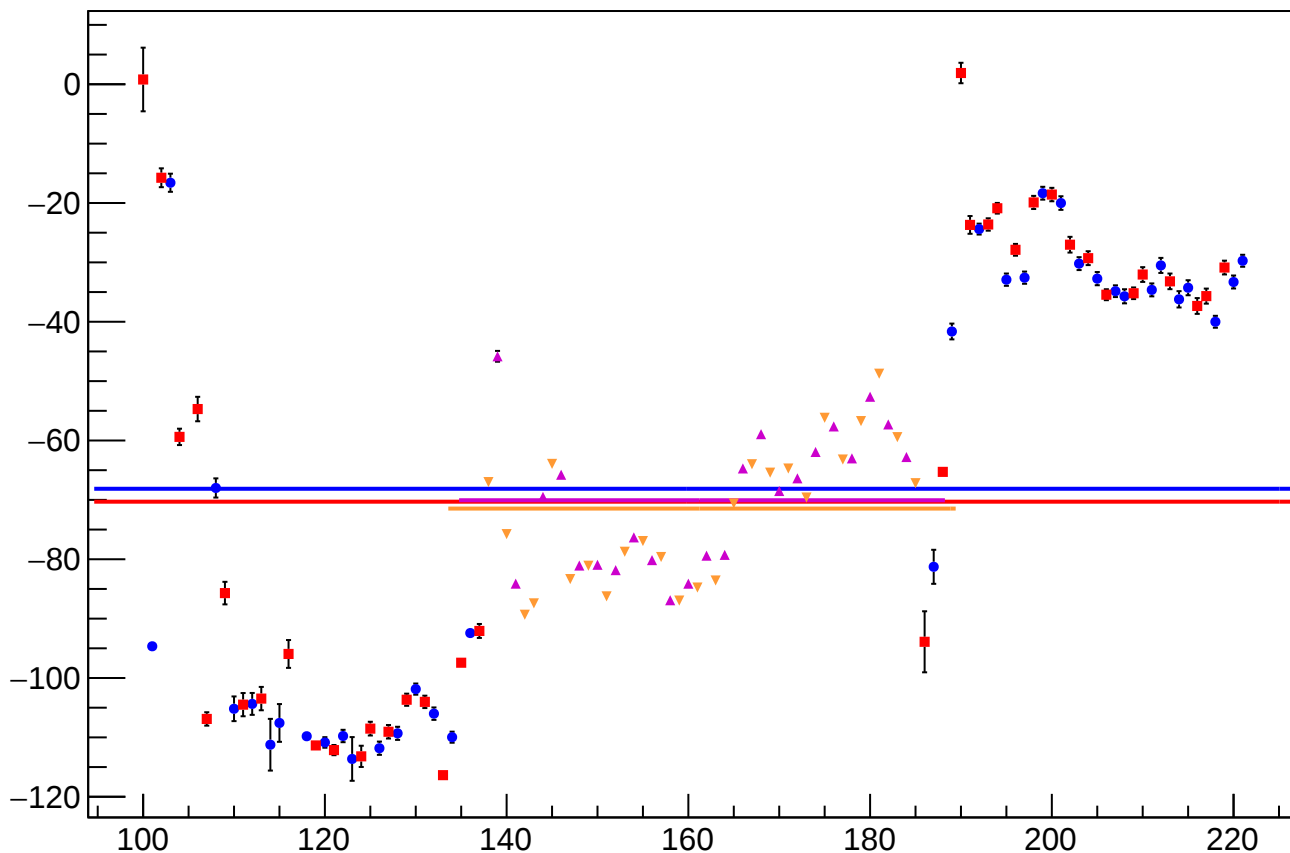
Right: 15.711 $\pm$ 0.104 χ^2 /NDF: 7134.4/71

In: 11.081 $\pm$ 0.084 χ^2 /NDF:16341.4/57

Out: 11.636 $\pm$ 0.083 χ^2 /NDF:18956.1/61

All: 11.364 $\pm$ 0.059 χ^2 /NDF: 35319.5/119

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.129 ± 0.182 $\chi^2/\text{NDF}: 40367.5/34$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -70.304 ± 0.182 $\chi^2/\text{NDF}: 46118.6/36$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

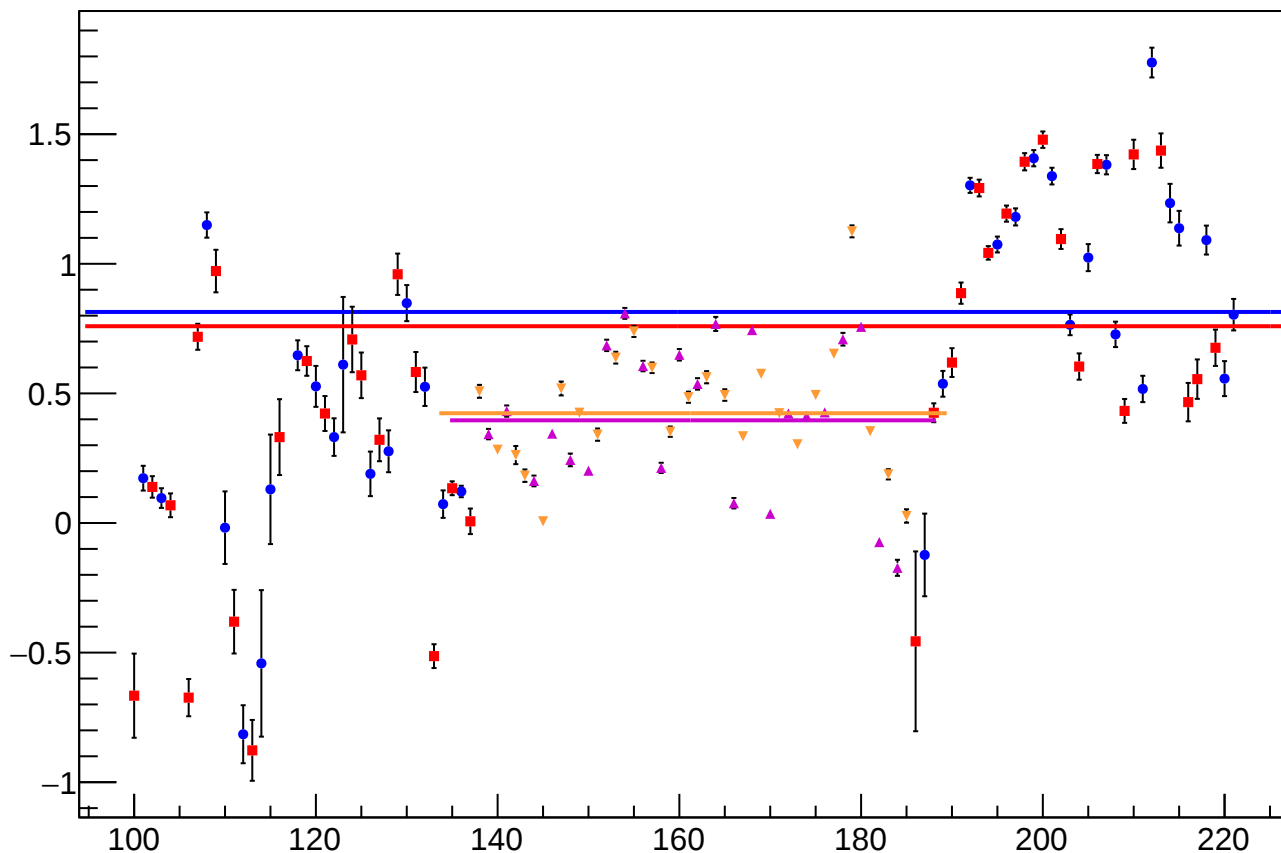
Right: -69.218 ± 0.129 $\chi^2/\text{NDF}: 86557.4/71$

In: -69.671 ± 0.082 $\chi^2/\text{NDF}: 53515.6/57$

Out: -71.240 ± 0.080 $\chi^2/\text{NDF}: 62561.1/61$

All: -70.473 ± 0.057 $\chi^2/\text{NDF}: 116264.0/119$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.814 $\pm$ 0.008 χ^2 /NDF: 4053.9/34

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.759 $\pm$ 0.008 χ^2 /NDF: 5138.1/36

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

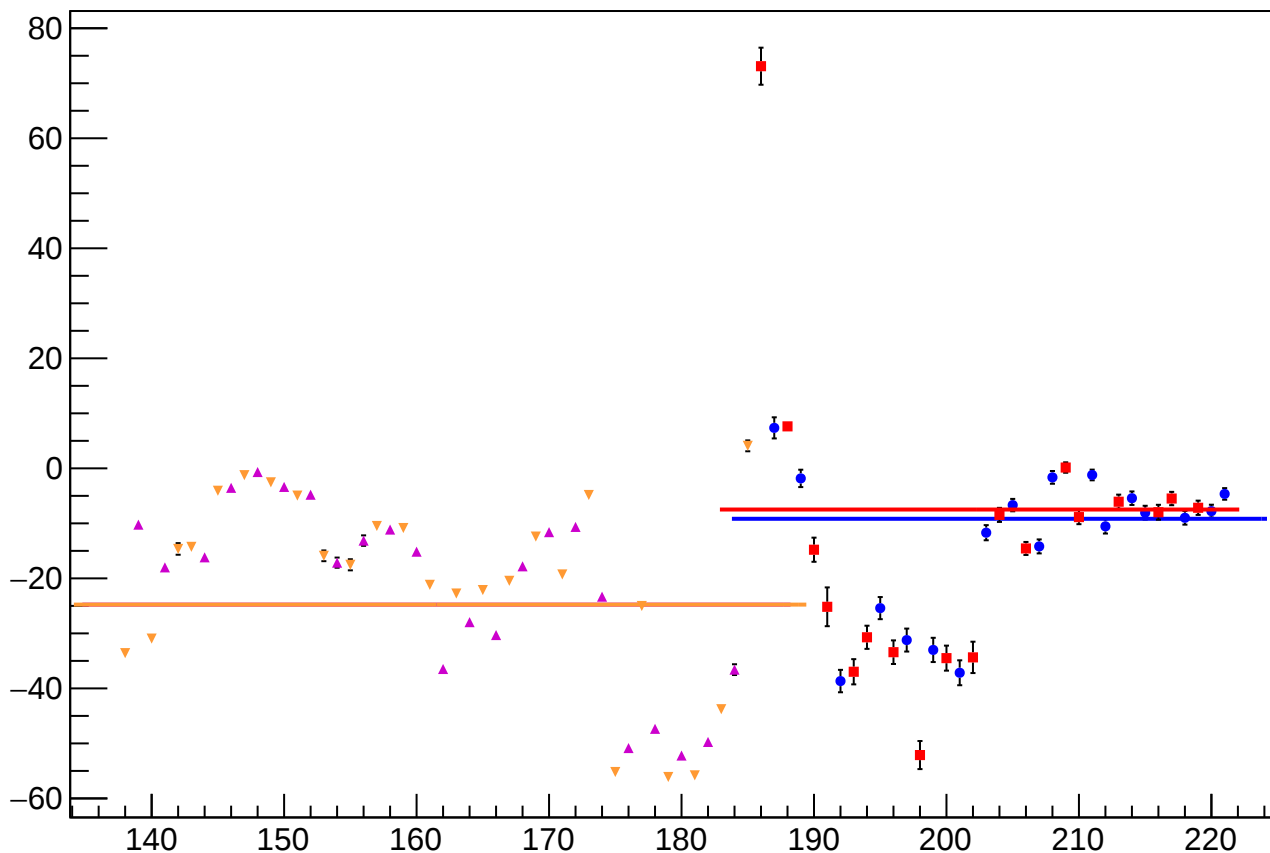
Right: 0.786 $\pm$ 0.006 χ^2 /NDF: 9215.5/71

In: 0.483 $\pm$ 0.004 χ^2 /NDF:10197.2/57

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9442.9/61

All: 0.489 $\pm$ 0.003 χ^2 /NDF: 19645.1/119

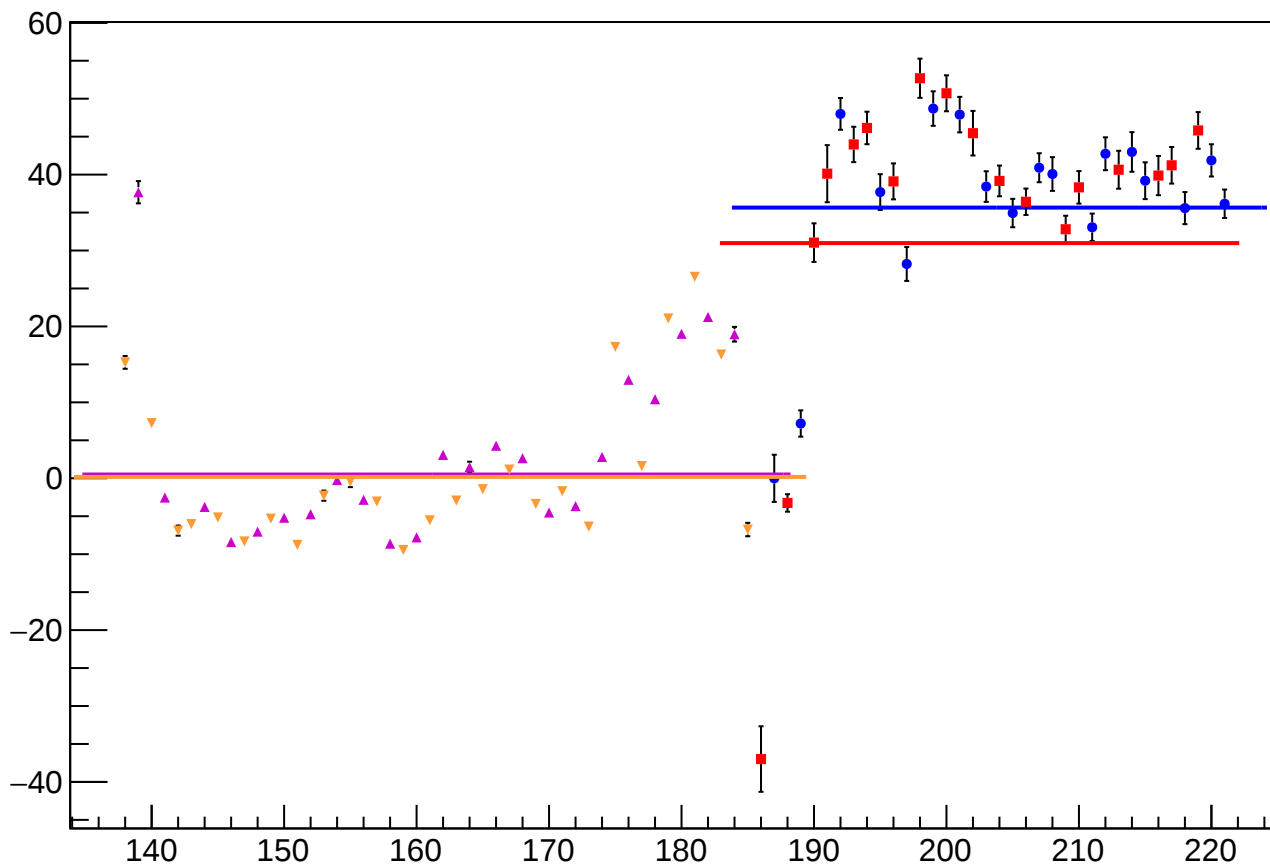
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.170 ± 0.321 χ^2/NDF : 915.6/17
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.484 ± 0.343 χ^2/NDF : 2040.6/17
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -8.381 ± 0.235 χ^2/NDF : 2969.1/35
 In: -22.204 ± 0.130 χ^2/NDF : 17691.7/40
 Out: -22.318 ± 0.129 χ^2/NDF : 22540.0/42
 All: -22.261 ± 0.092 χ^2/NDF : 40232.2/83

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.655 ± 0.500 $\chi^2/\text{NDF}: 553.0/17$

Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$

Right Out: 30.979 ± 0.512 $\chi^2/\text{NDF}: 1515.2/17$

Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$

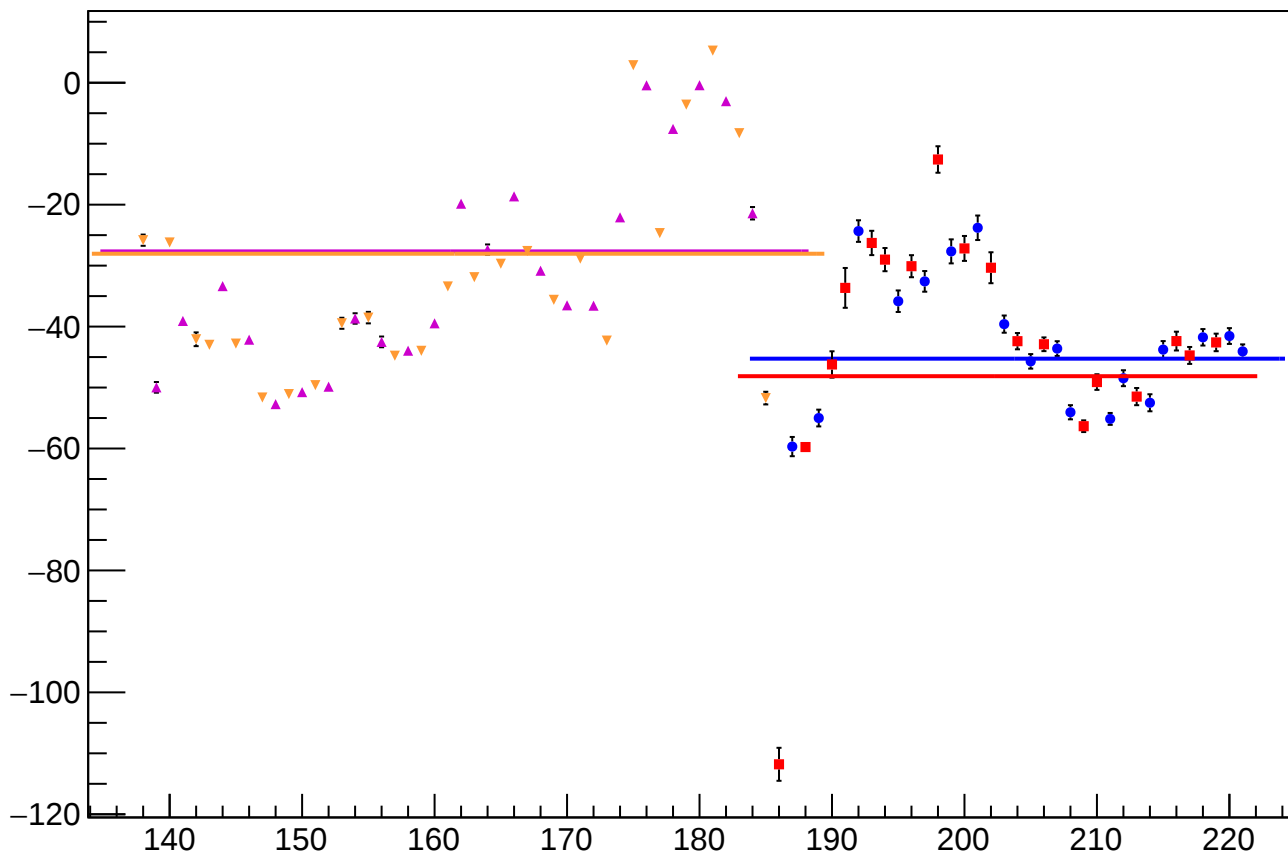
Right: 33.371 ± 0.358 $\chi^2/\text{NDF}: 2110.9/35$

In: 2.176 ± 0.109 $\chi^2/\text{NDF}: 11815.7/40$

Out: 1.503 ± 0.106 $\chi^2/\text{NDF}: 13278.4/42$

All: 1.829 ± 0.076 $\chi^2/\text{NDF}: 25113.6/83$

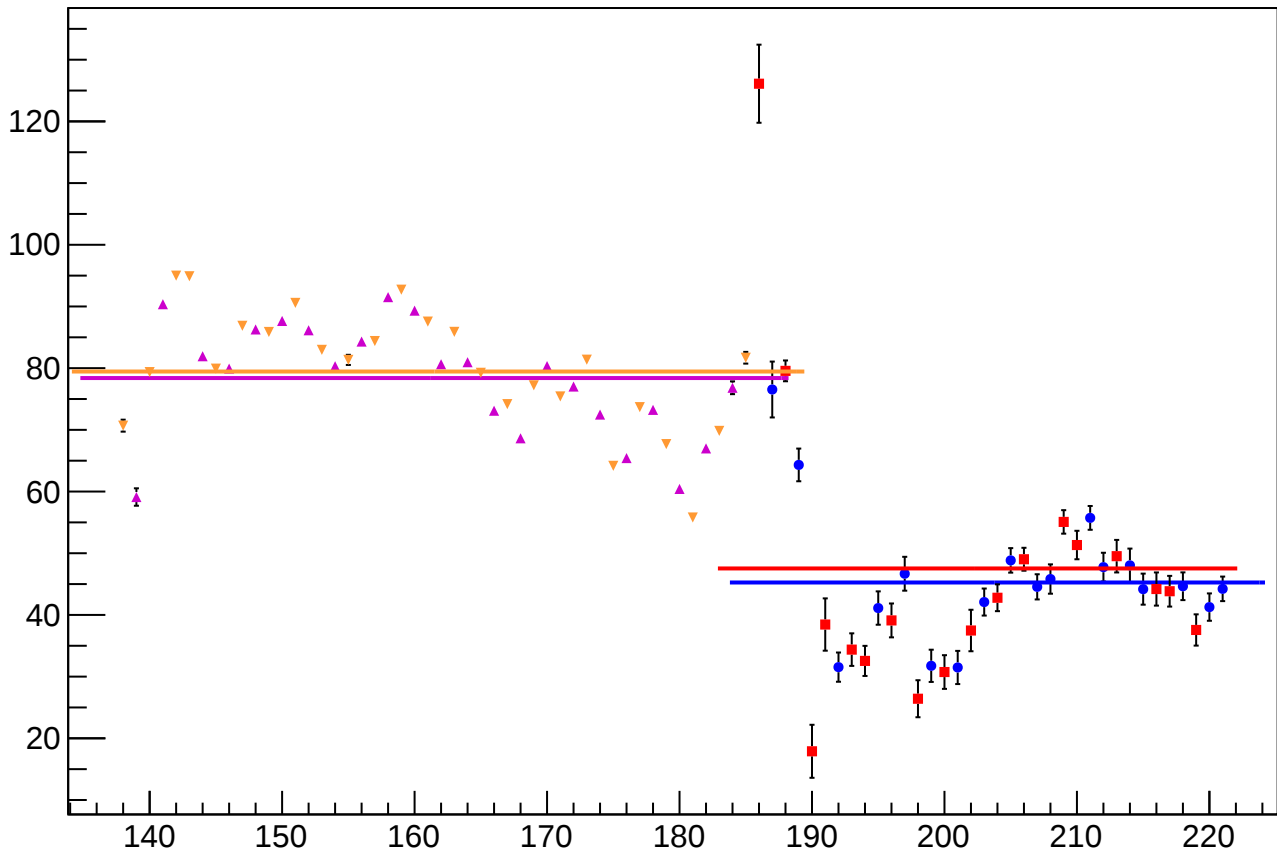
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.263 ± 0.323 $\chi^2/\text{NDF}: 779.3/17$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -48.137 ± 0.329 $\chi^2/\text{NDF}: 1793.0/17$
 Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$
 Right: -46.672 ± 0.230 $\chi^2/\text{NDF}: 2611.2/35$
 In: -30.536 ± 0.130 $\chi^2/\text{NDF}: 18271.3/40$
 Out: -31.125 ± 0.129 $\chi^2/\text{NDF}: 22094.3/42$
 All: -30.834 ± 0.092 $\chi^2/\text{NDF}: 40375.9/83$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.257 $\pm$ 0.559 χ^2 /NDF: 229.5/17

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 47.532 $\pm$ 0.595 χ^2 /NDF: 779.0/17

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

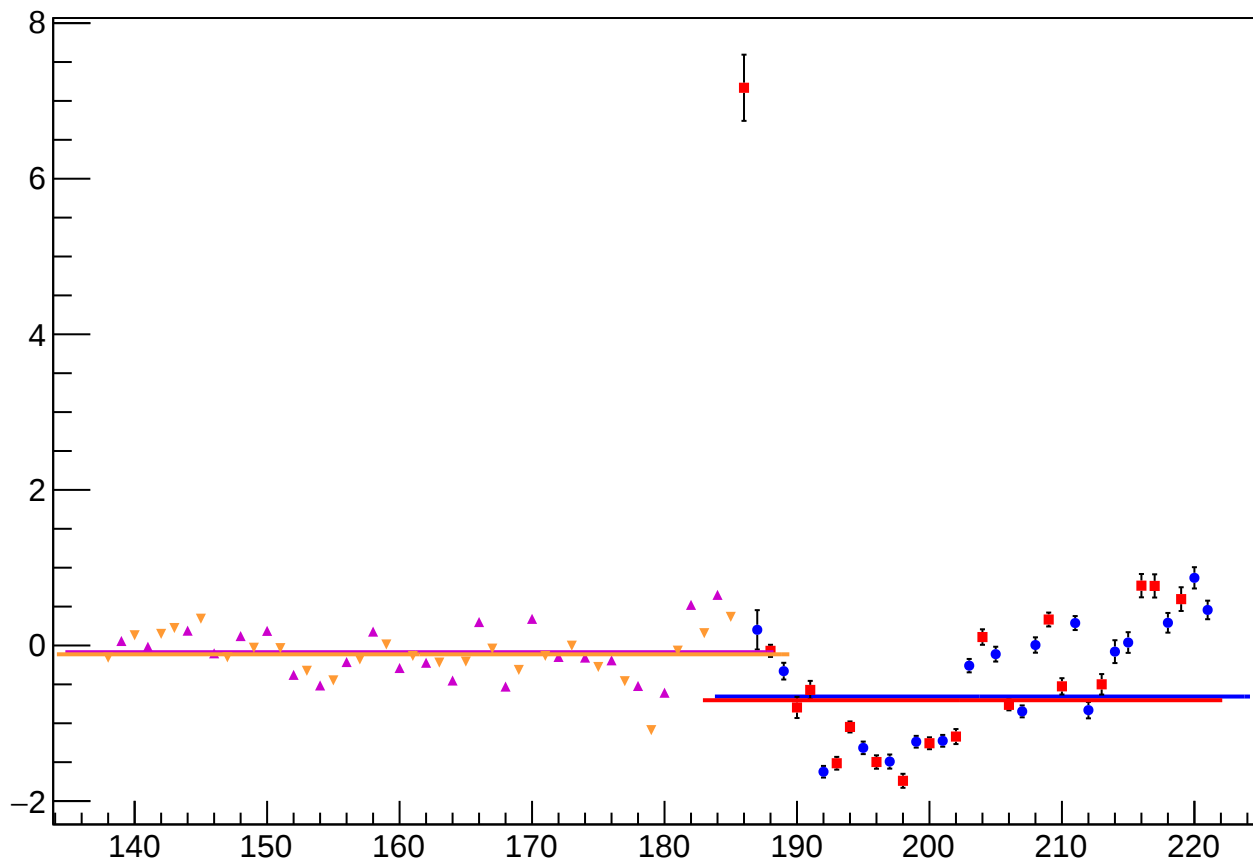
Right: 46.324 $\pm$ 0.407 χ^2 /NDF: 1016.3/35

In: 76.775 $\pm$ 0.124 χ^2 /NDF: 8281.9/40

Out: 78.142 $\pm$ 0.121 χ^2 /NDF: 9620.2/42

All: 77.475 $\pm$ 0.086 χ^2 /NDF: 17964.8/83

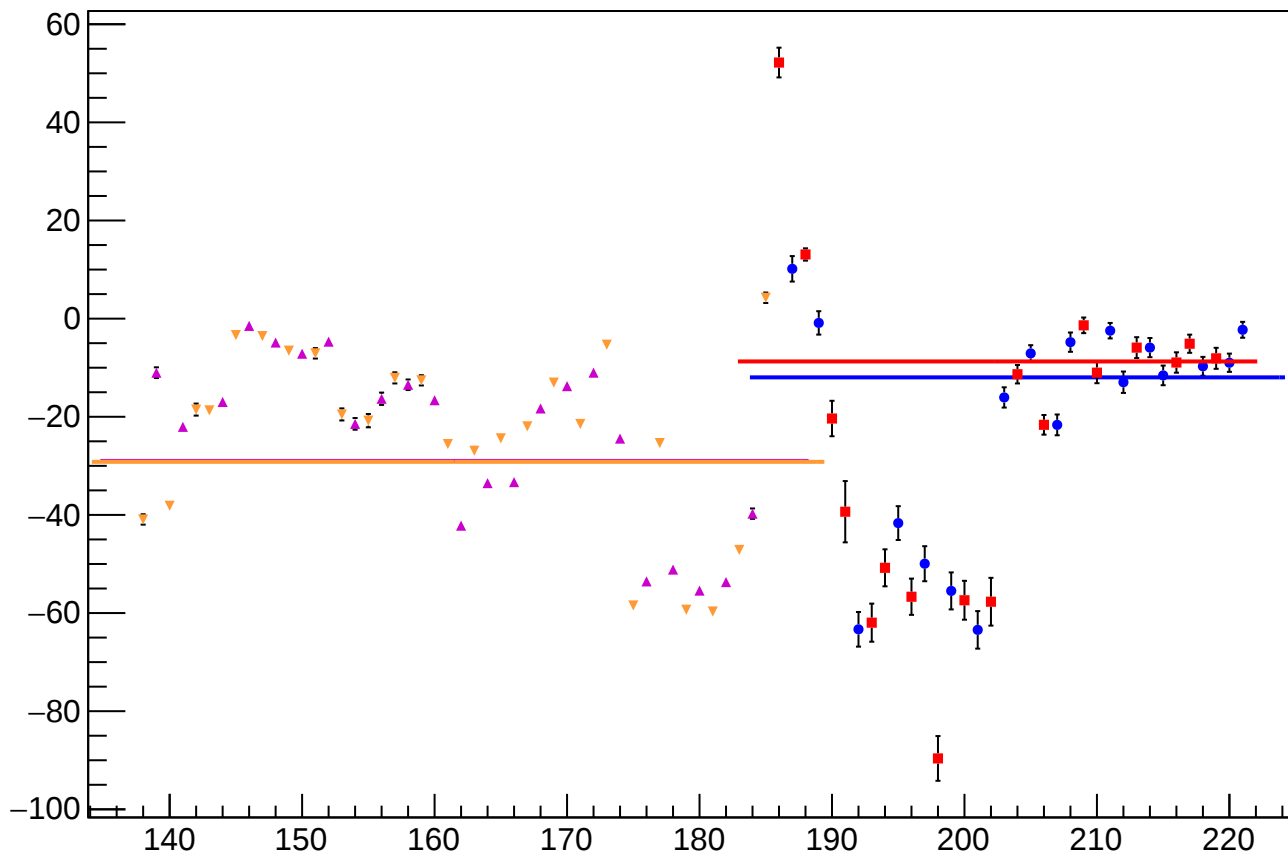
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.656 ± 0.023 χ^2/NDF : 983.0/17
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.704 ± 0.023 χ^2/NDF : 1298.5/17
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.680 ± 0.016 χ^2/NDF : 2283.6/35
 In: -0.121 ± 0.006 χ^2/NDF : 4702.7/40
 Out: -0.147 ± 0.006 χ^2/NDF : 4222.0/42
 All: -0.134 ± 0.004 χ^2/NDF : 8936.0/83

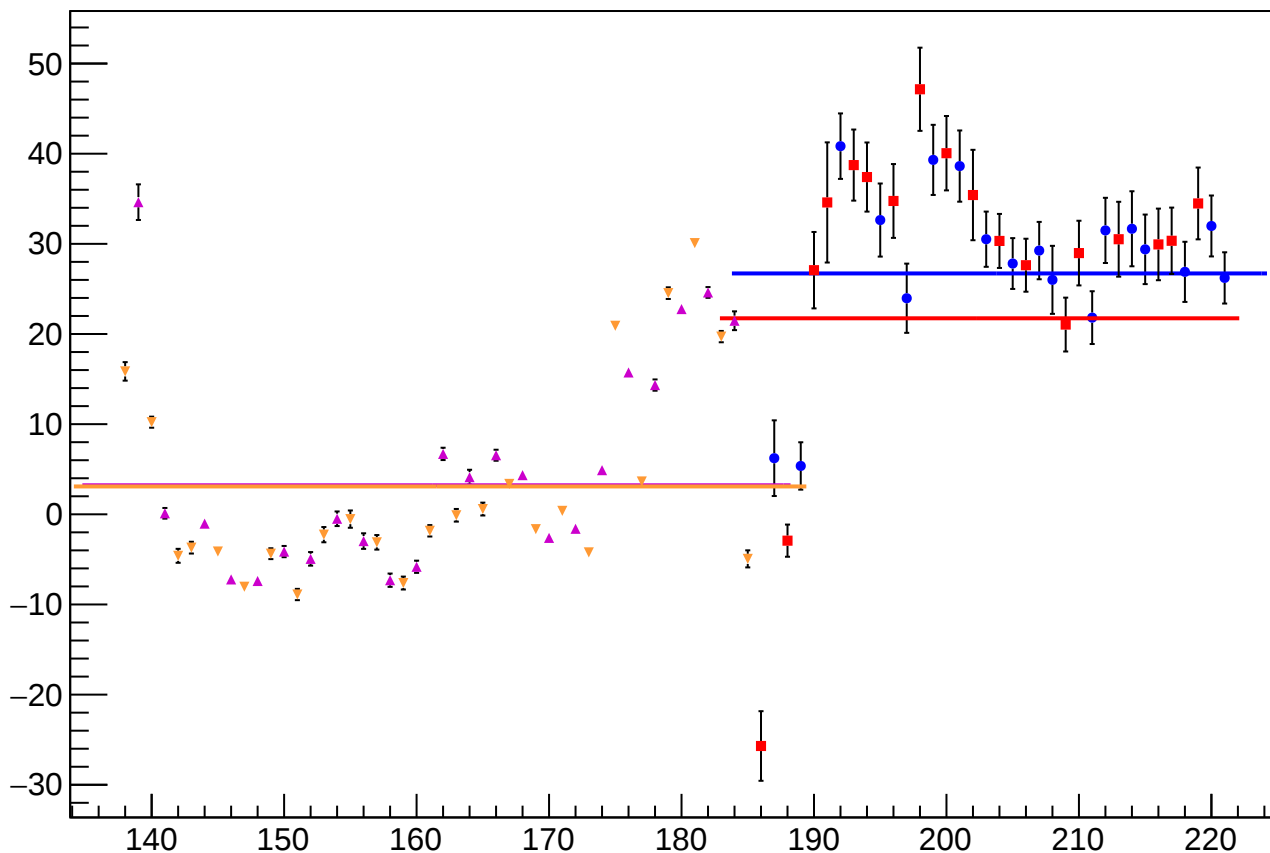
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.968 ± 0.510 χ^2/NDF : 939.6/17
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -8.723 ± 0.549 χ^2/NDF : 1861.7/17
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -10.464 ± 0.374 χ^2/NDF : 2820.0/35
 In: -27.481 ± 0.152 χ^2/NDF : 15371.2/40
 Out: -27.638 ± 0.151 χ^2/NDF : 20057.8/42
 All: -27.560 ± 0.107 χ^2/NDF : 35429.5/83

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.718 $\pm$ 0.801 χ^2 /NDF: 138.5/17

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 21.742 $\pm$ 0.824 χ^2 /NDF: 490.8/17

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF:6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

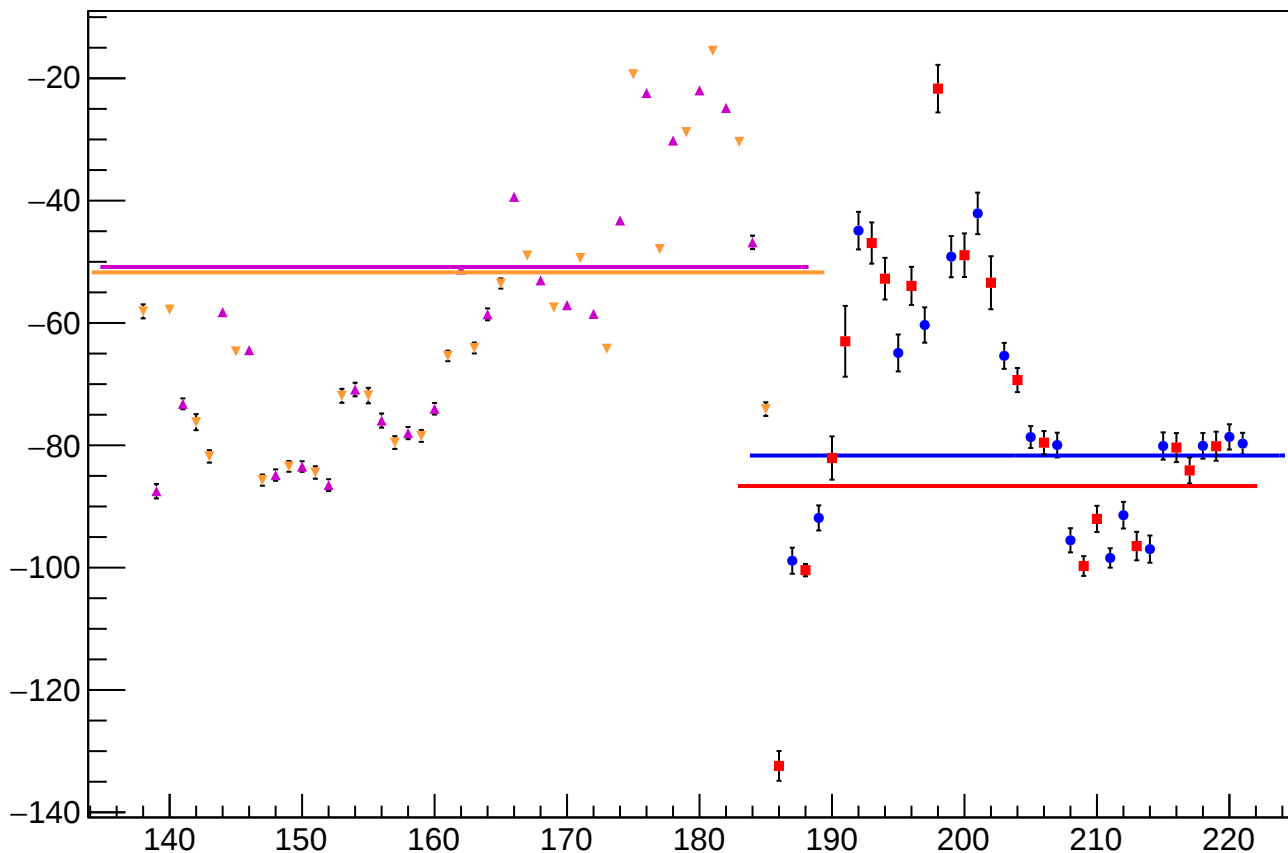
Right: 24.300 $\pm$ 0.575 χ^2 /NDF: 648.1/35

In: 3.796 $\pm$ 0.125 χ^2 /NDF:7214.9/40

Out: 3.506 $\pm$ 0.123 χ^2 /NDF:9075.6/42

All: 3.649 $\pm$ 0.088 χ^2 /NDF: 16293.2/83

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.671 ± 0.513 χ^2/NDF : 842.9/17

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -86.657 ± 0.525 χ^2/NDF : 1552.3/17

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

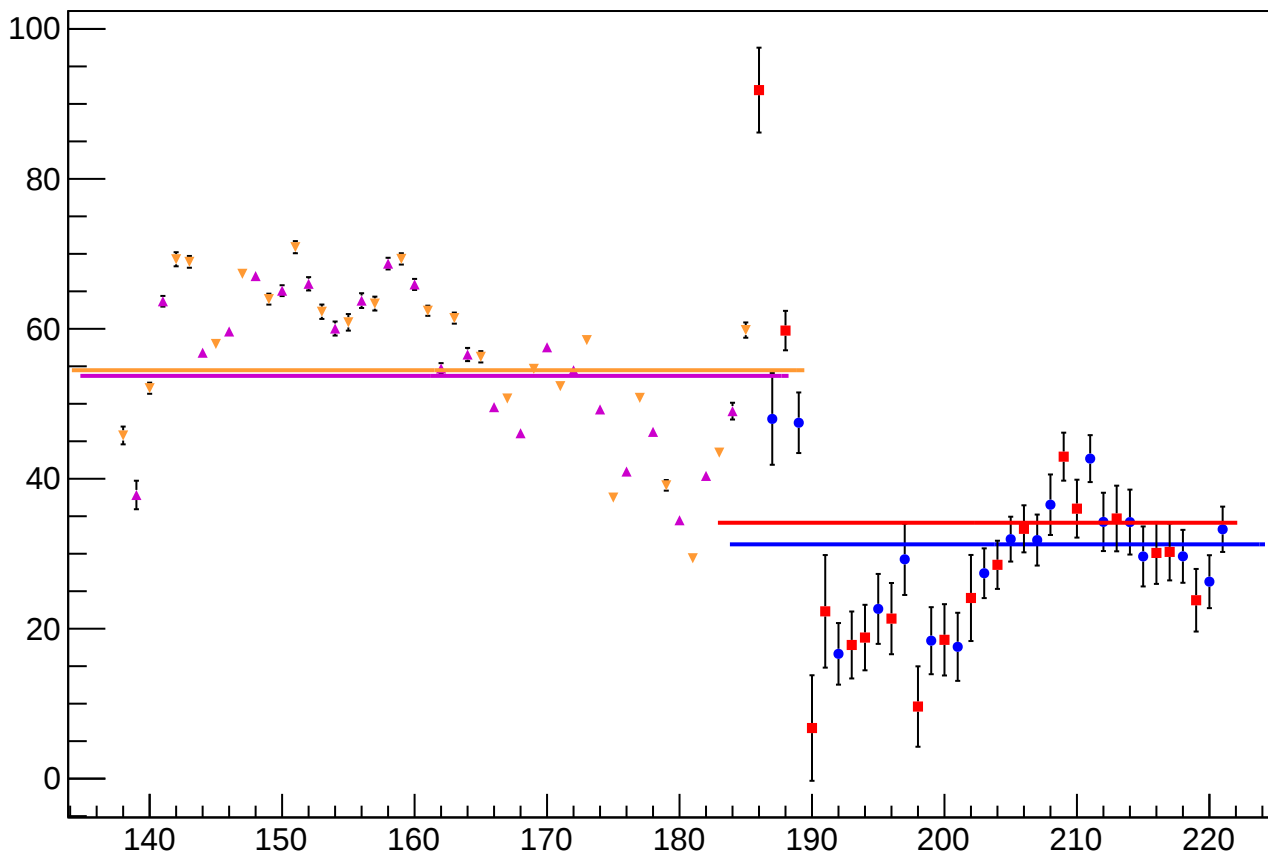
Right: -84.108 ± 0.367 χ^2/NDF : 2441.3/35

In: -53.579 ± 0.153 χ^2/NDF : 21403.8/40

Out: -54.628 ± 0.151 χ^2/NDF : 25151.2/42

All: -54.109 ± 0.107 χ^2/NDF : 46578.8/83

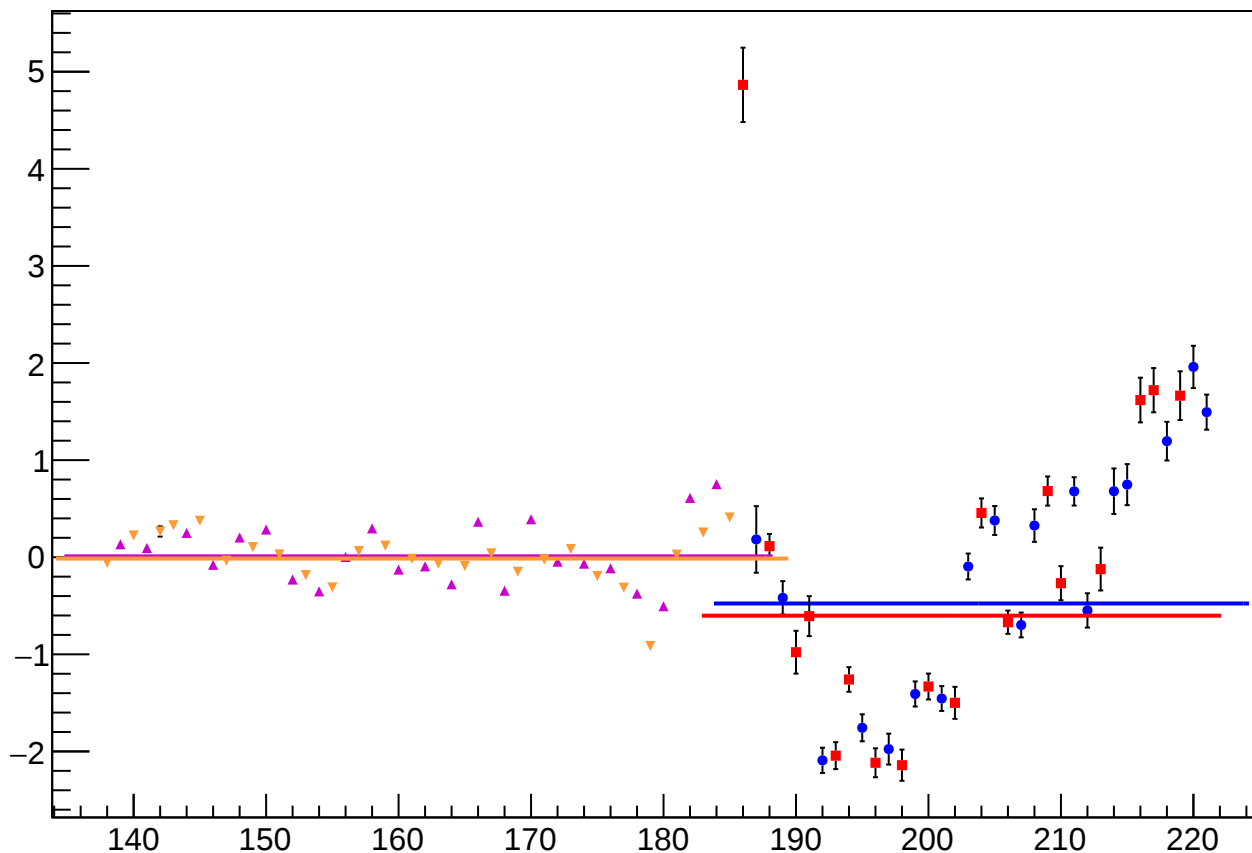
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.252+/-0.898 χ^2 /NDF: 77.5/17
 Left Out: 54.476+/-0.140 χ^2 /NDF:6266.9/24
 Right Out: 34.132+/-0.967 χ^2 /NDF: 303.1/17
 Left In: 53.724+/-0.143 χ^2 /NDF:4585.7/22

Left: 54.107+/-0.100 χ^2 /NDF: 10866.7/47
 Right: 32.586+/-0.658 χ^2 /NDF: 385.4/35
 In: 53.167+/-0.141 χ^2 /NDF:5273.9/40
 Out: 54.057+/-0.139 χ^2 /NDF:7003.8/42
 All: 53.620+/-0.099 χ^2 /NDF: 12297.9/83

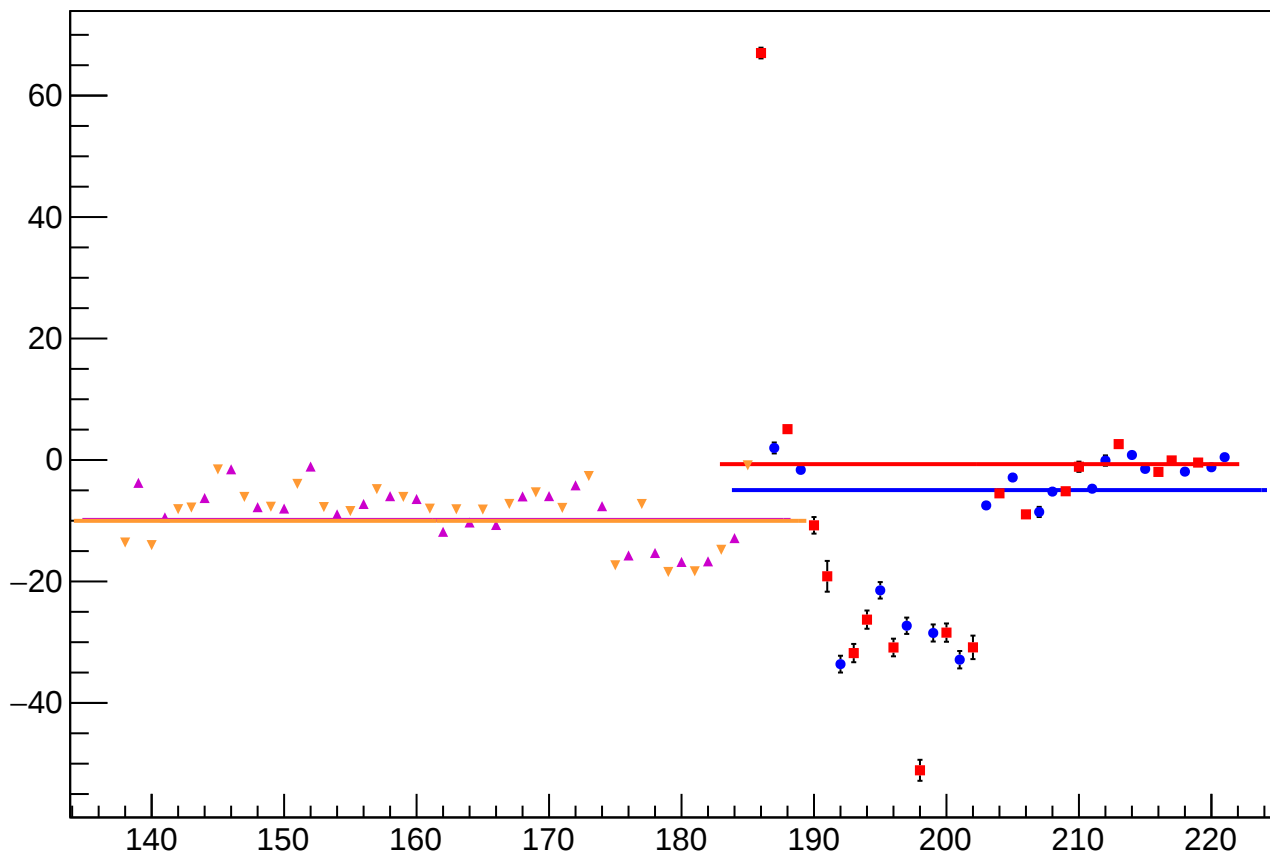
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.476 ± 0.038 χ^2/NDF : 944.1/17
 Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24
 Right Out: -0.602 ± 0.039 χ^2/NDF : 1038.5/17
 Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47
 Right: -0.537 ± 0.027 χ^2/NDF : 1988.1/35
 In: -0.005 ± 0.006 χ^2/NDF : 3326.6/40
 Out: -0.030 ± 0.006 χ^2/NDF : 2919.0/42
 All: -0.018 ± 0.005 χ^2/NDF : 6252.8/83

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected

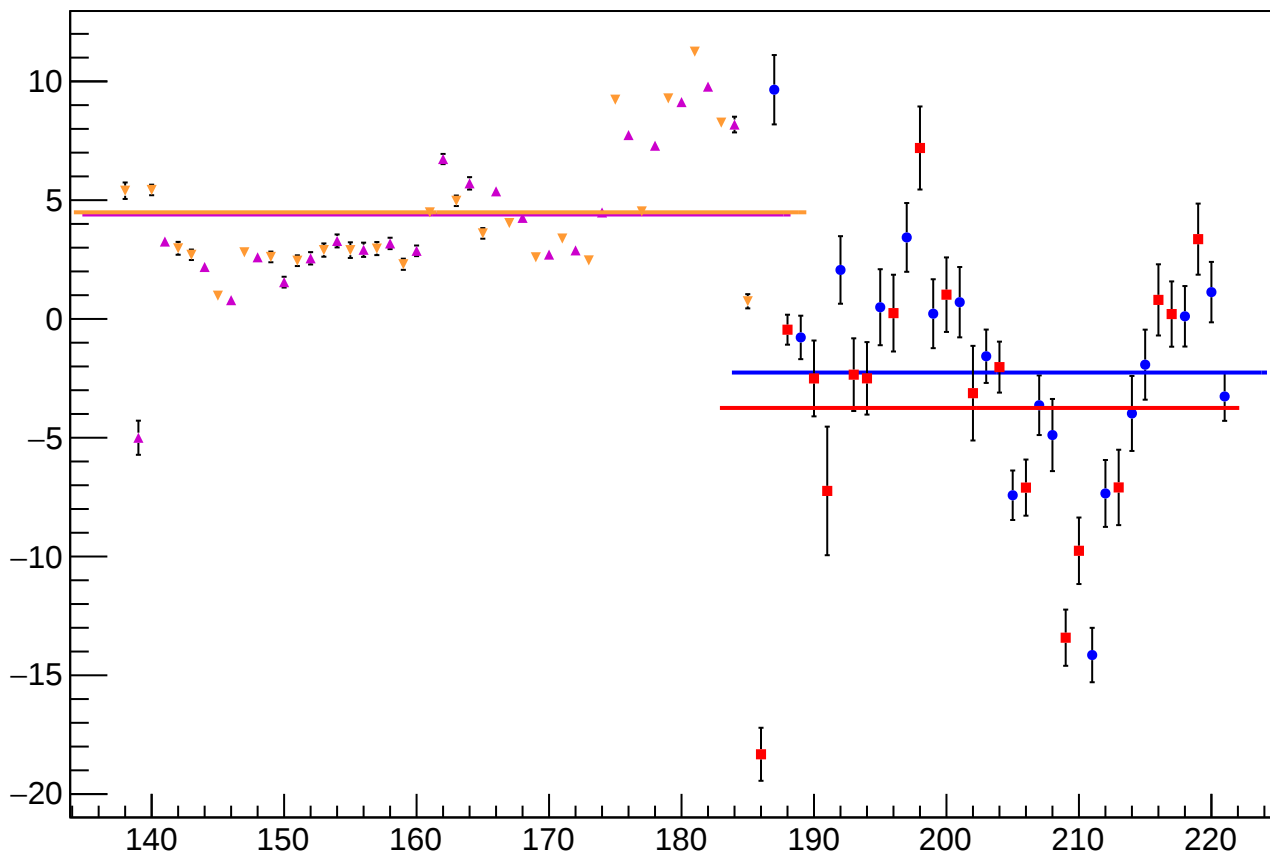


Right In: -4.956 ± 0.192 $\chi^2/\text{NDF}: 1874.9/17$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.684 ± 0.205 $\chi^2/\text{NDF}: 8936.9/17$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -2.955 ± 0.140 $\chi^2/\text{NDF}: 11043.5/35$
 In: -9.537 ± 0.050 $\chi^2/\text{NDF}: 11830.3/40$
 Out: -9.478 ± 0.049 $\chi^2/\text{NDF}: 23449.6/42$

All: -9.507 ± 0.035 $\chi^2/\text{NDF}: 35280.6/83$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.256 ± 0.301 χ^2/NDF : 266.5/17

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -3.746 ± 0.306 χ^2/NDF : 396.7/17

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

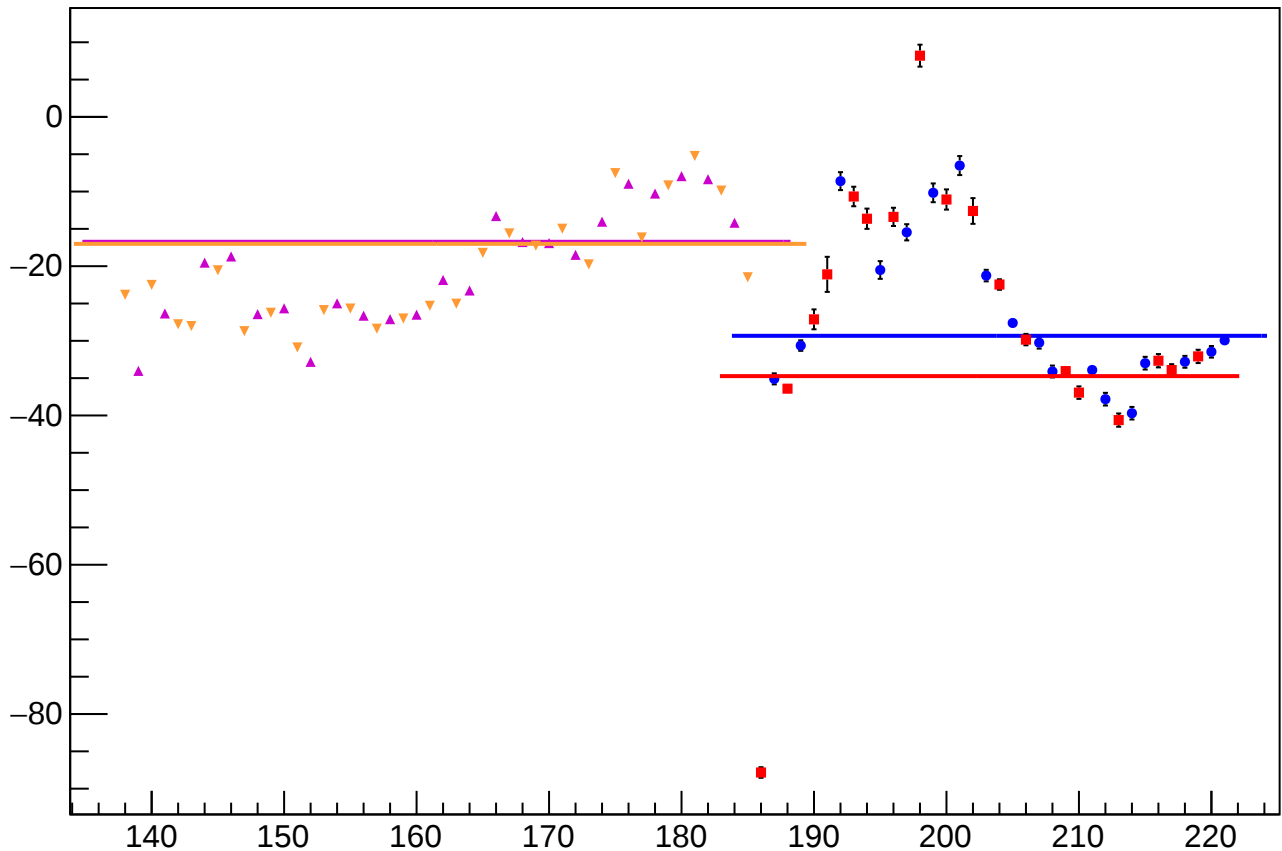
Right: -2.989 ± 0.214 χ^2/NDF : 675.2/35

In: 4.273 ± 0.041 χ^2/NDF : 4977.0/40

Out: 4.345 ± 0.040 χ^2/NDF : 5942.0/42

All: 4.310 ± 0.029 χ^2/NDF : 10920.5/83

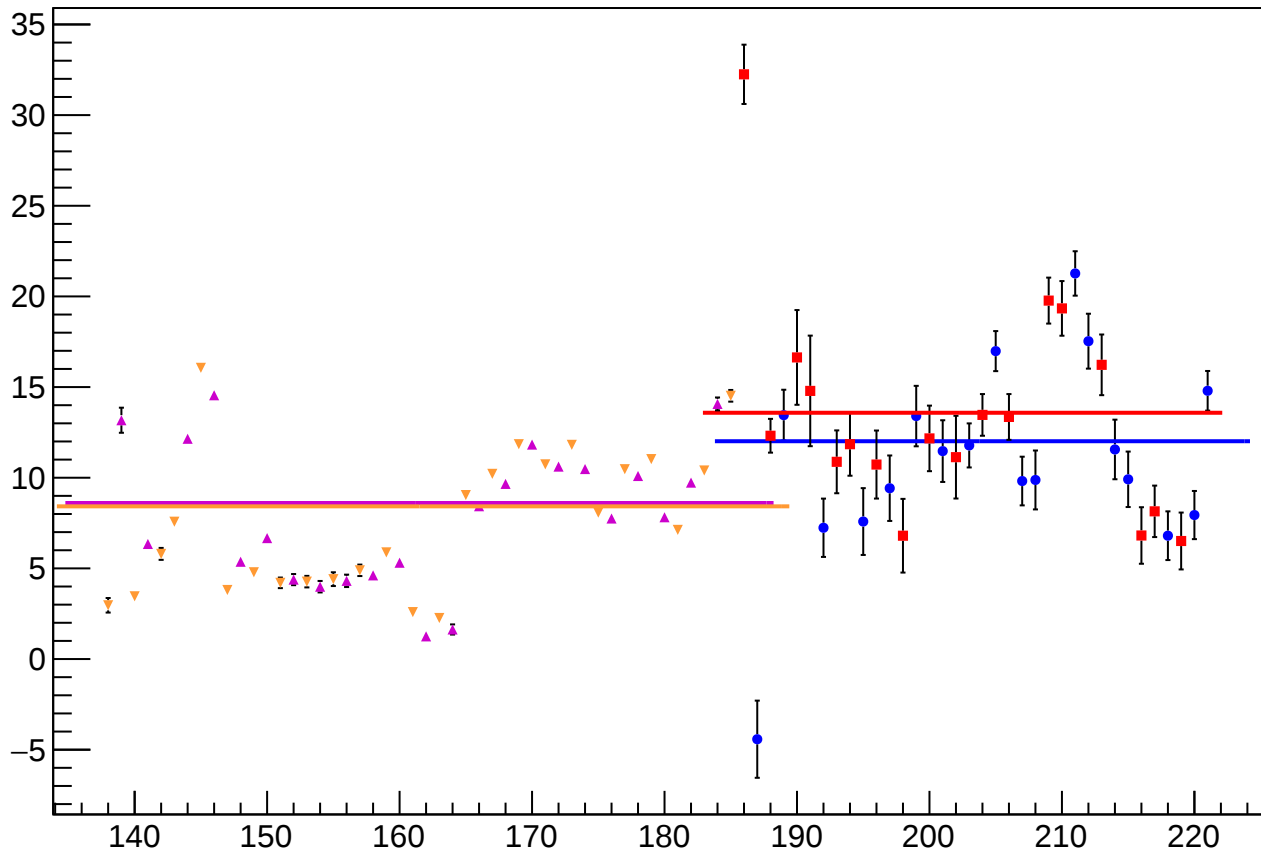
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.328 ± 0.193 $\chi^2/\text{NDF}: 1637.9/17$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.729 ± 0.194 $\chi^2/\text{NDF}: 8284.3/17$
 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: -32.012 ± 0.137 $\chi^2/\text{NDF}: 10311.9/35$
 In: -17.571 ± 0.050 $\chi^2/\text{NDF}: 24397.1/40$
 Out: -18.156 ± 0.049 $\chi^2/\text{NDF}: 38179.7/42$
 All: -17.866 ± 0.035 $\chi^2/\text{NDF}: 62646.4/83$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.013 $\pm$ 0.339 χ^2 /NDF: 206.1/17

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 13.583 $\pm$ 0.363 χ^2 /NDF: 247.1/17

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

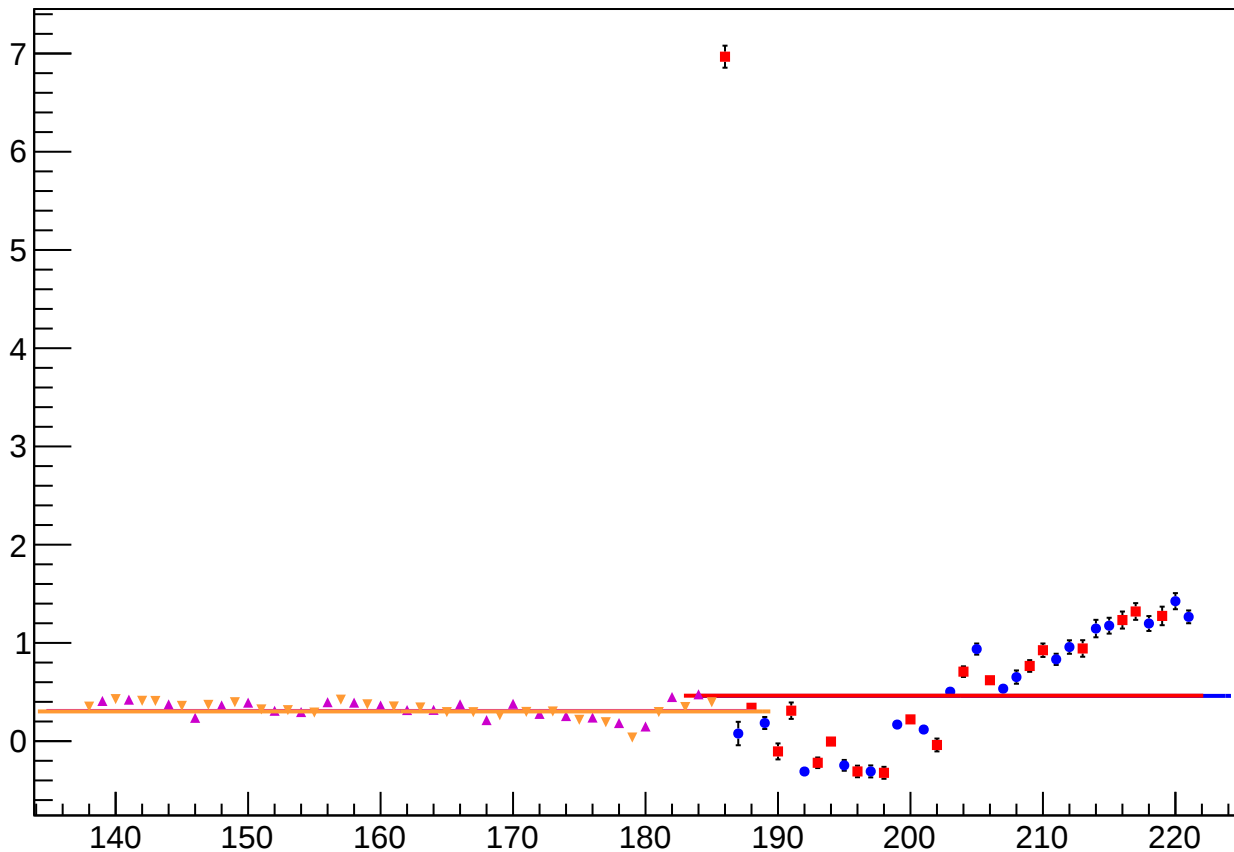
Right: 12.744 $\pm$ 0.248 χ^2 /NDF: 463.2/35

In: 8.669 $\pm$ 0.046 χ^2 /NDF: 5809.6/40

Out: 8.502 $\pm$ 0.045 χ^2 /NDF: 6916.3/42

All: 8.584 $\pm$ 0.032 χ^2 /NDF: 12732.6/83

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.461+/-0.014 χ^2/NDF : 1369.6/17

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.463+/-0.015 χ^2/NDF : 4476.1/17

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

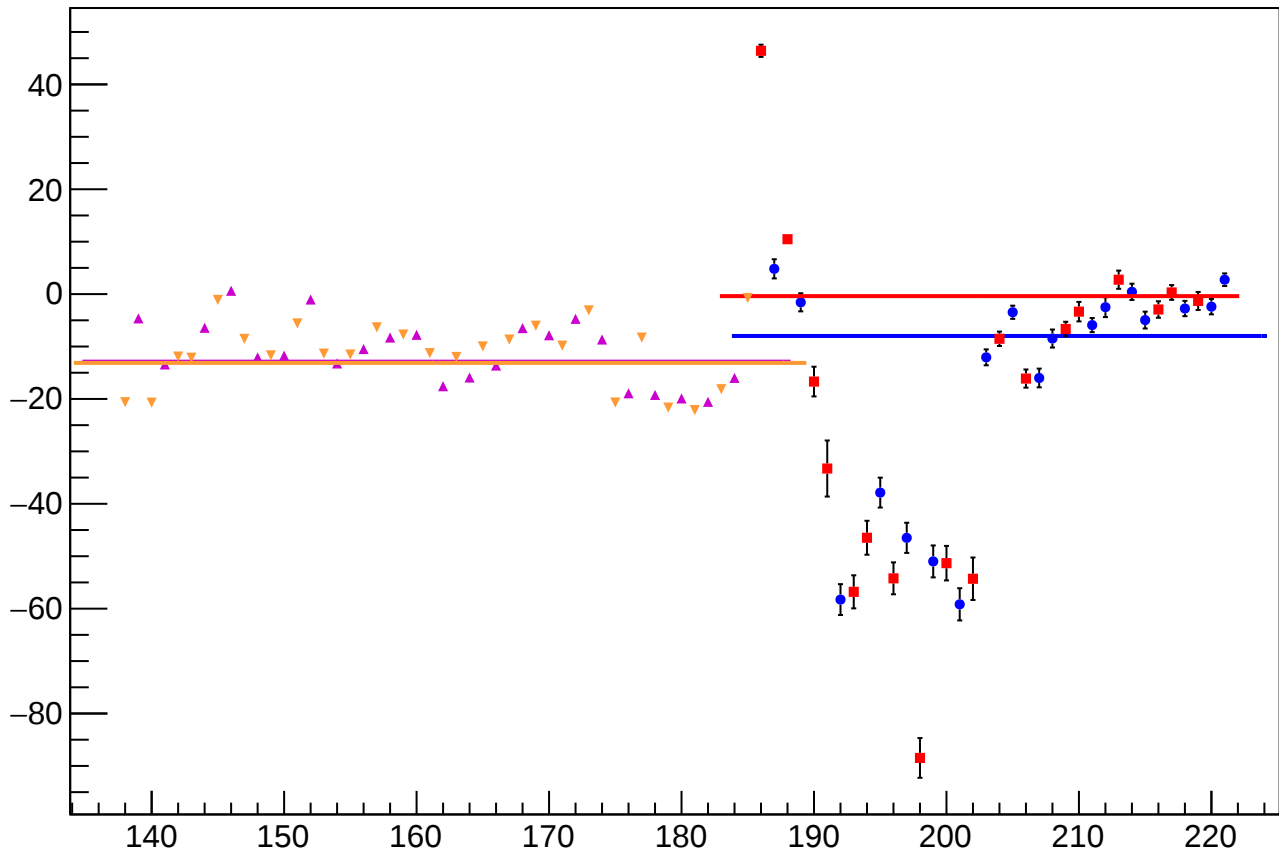
Right: 0.462+/-0.010 χ^2/NDF : 5845.7/35

In: 0.311+/-0.002 χ^2/NDF :3181.4/40

Out: 0.306+/-0.002 χ^2/NDF :6182.4/42

All: 0.308+/-0.001 χ^2/NDF : 9366.7/83

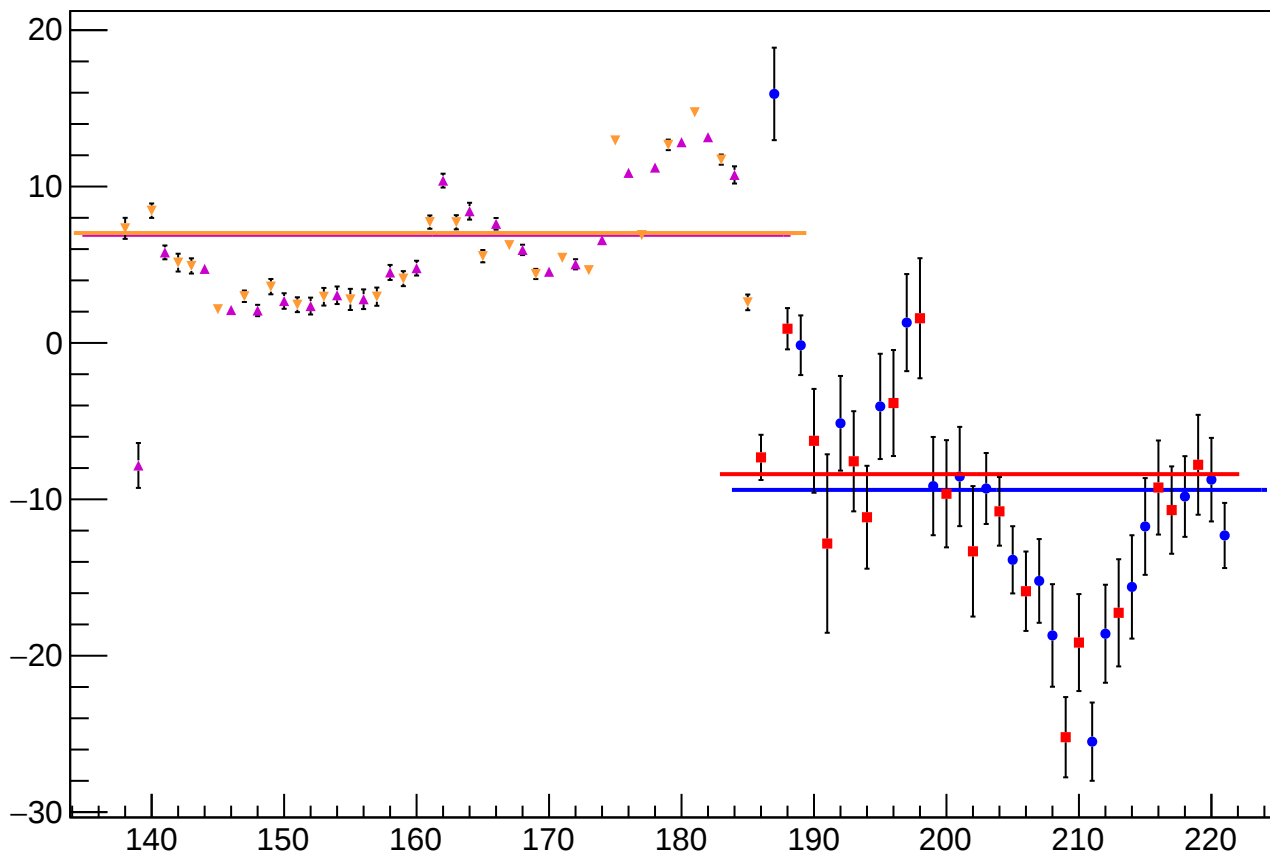
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.987 ± 0.402 $\chi^2/\text{NDF}: 1311.0/17$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: -0.387 ± 0.414 $\chi^2/\text{NDF}: 3755.8/17$
 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: -4.294 ± 0.288 $\chi^2/\text{NDF}: 5240.1/35$
 In: -12.626 ± 0.093 $\chi^2/\text{NDF}: 6227.5/40$
 Out: -12.504 ± 0.091 $\chi^2/\text{NDF}: 10634.6/42$
 All: -12.565 ± 0.065 $\chi^2/\text{NDF}: 16863.0/83$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.397 ± 0.631 χ^2/NDF : 186.5/17

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.390 ± 0.608 χ^2/NDF : 134.5/17

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

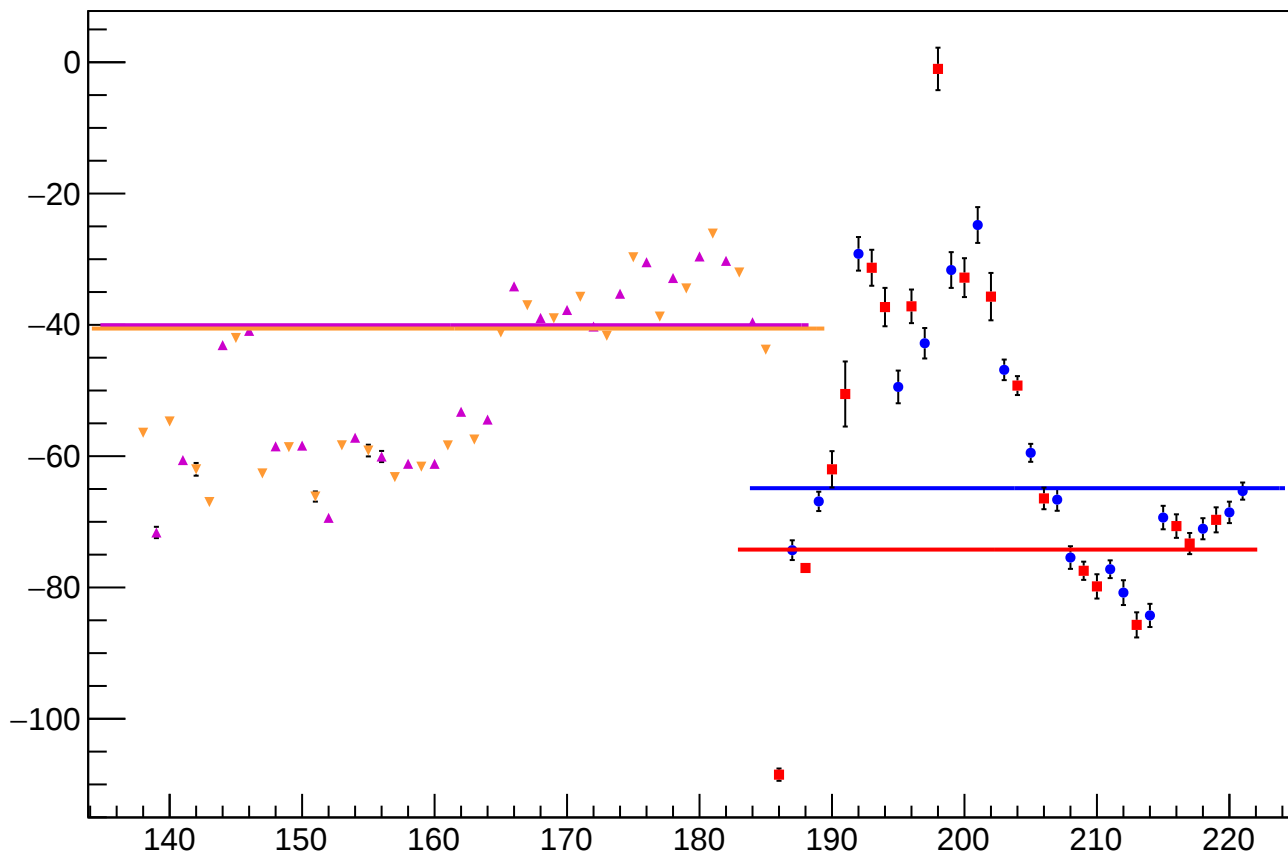
Right: -8.875 ± 0.438 χ^2/NDF : 322.3/35

In: 6.670 ± 0.077 χ^2/NDF : 3273.2/40

Out: 6.783 ± 0.077 χ^2/NDF : 3432.0/42

All: 6.727 ± 0.054 χ^2/NDF : 6706.3/83

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

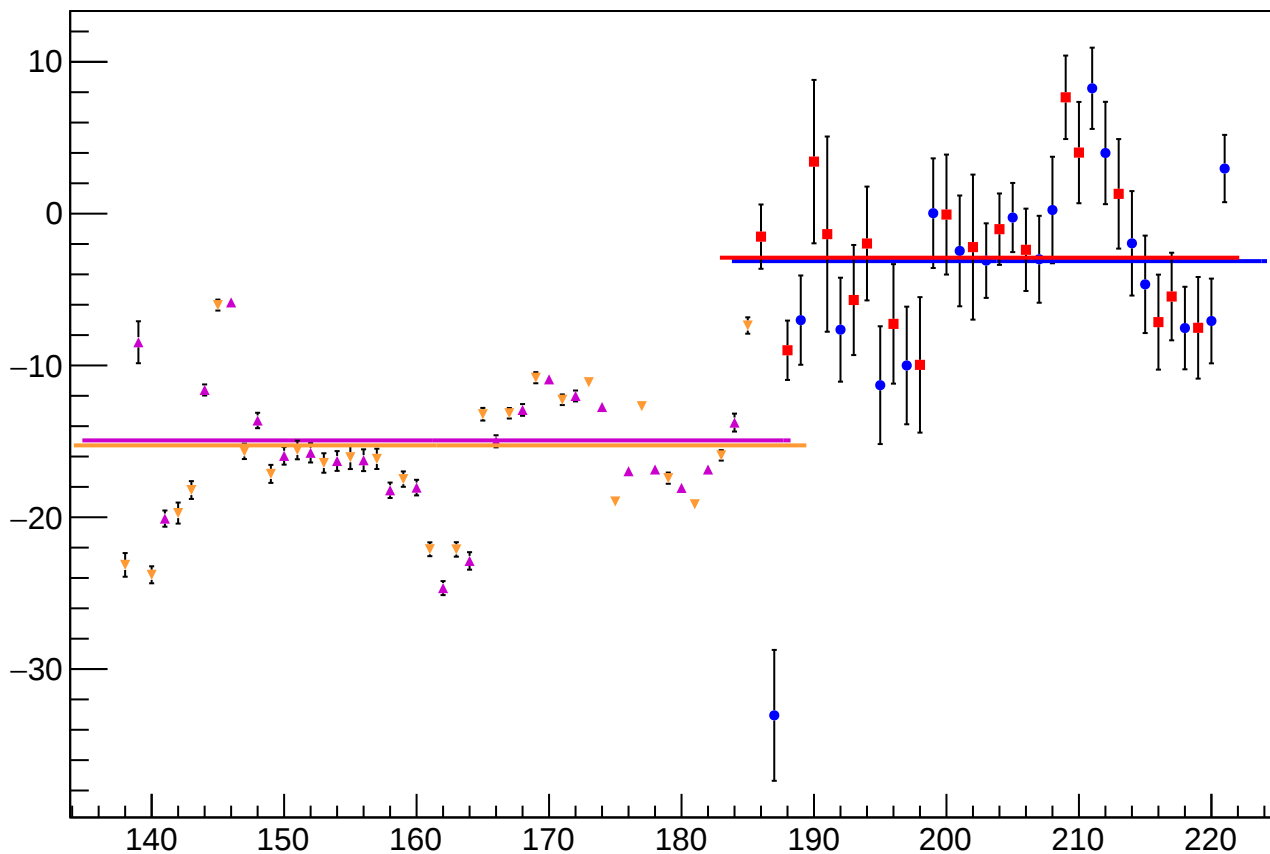
Right: -69.761 ± 0.280 $\chi^2/\text{NDF}: 4715.0/35$

In: -41.368 ± 0.093 $\chi^2/\text{NDF}: 18709.4/40$

Out: -42.467 ± 0.092 $\chi^2/\text{NDF}: 26000.5/42$

All: -41.924 ± 0.065 $\chi^2/\text{NDF}: 44780.5/83$

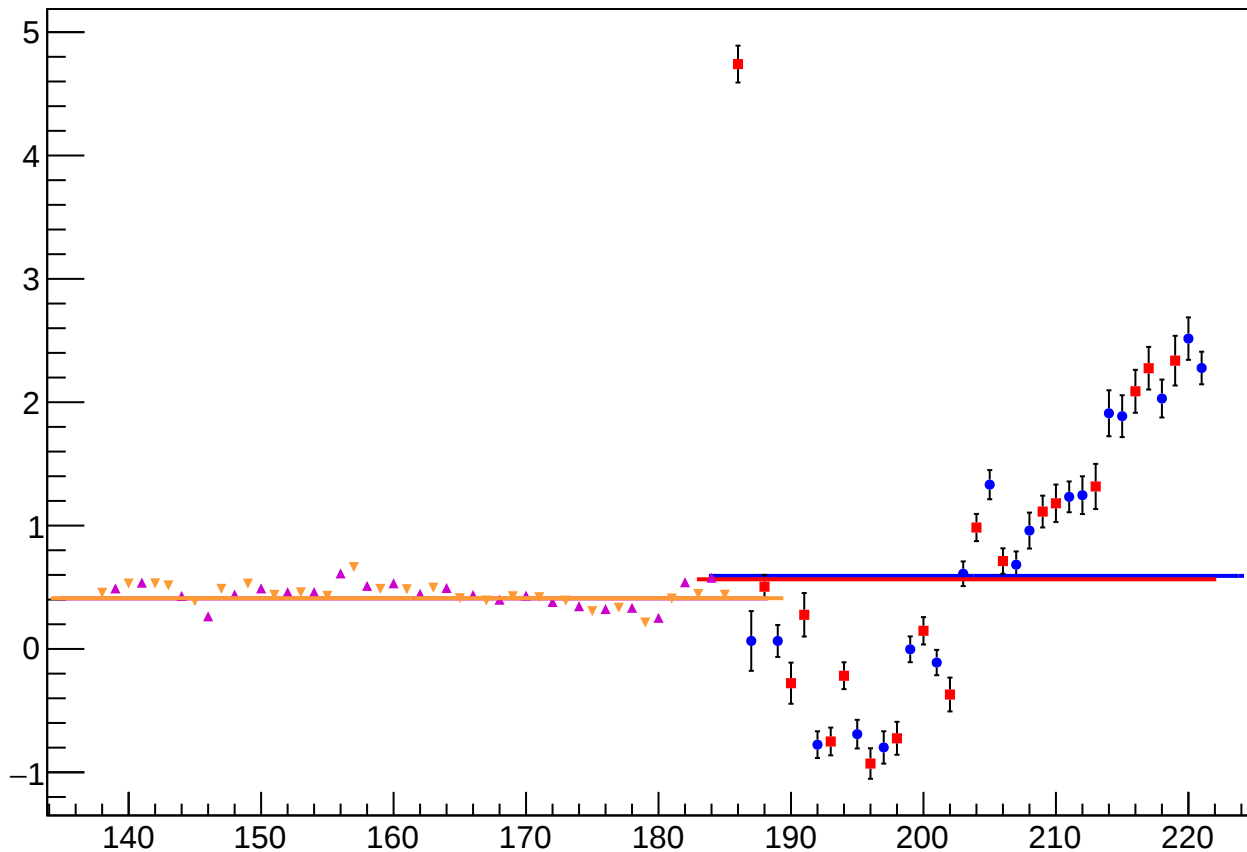
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.128 ± 0.711 χ^2/NDF : 97.6/17
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -2.901 ± 0.737 χ^2/NDF : 42.2/17
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -3.018 ± 0.512 χ^2/NDF : 139.9/35
 In: -14.763 ± 0.086 χ^2/NDF : 2569.0/40
 Out: -15.100 ± 0.085 χ^2/NDF : 2915.2/42
 All: -14.933 ± 0.061 χ^2/NDF : 5492.0/83

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.592 ± 0.030 $\chi^2/\text{NDF}: 1069.7/17$

Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$

Right Out: 0.565 ± 0.031 $\chi^2/\text{NDF}: 1617.7/17$

Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$

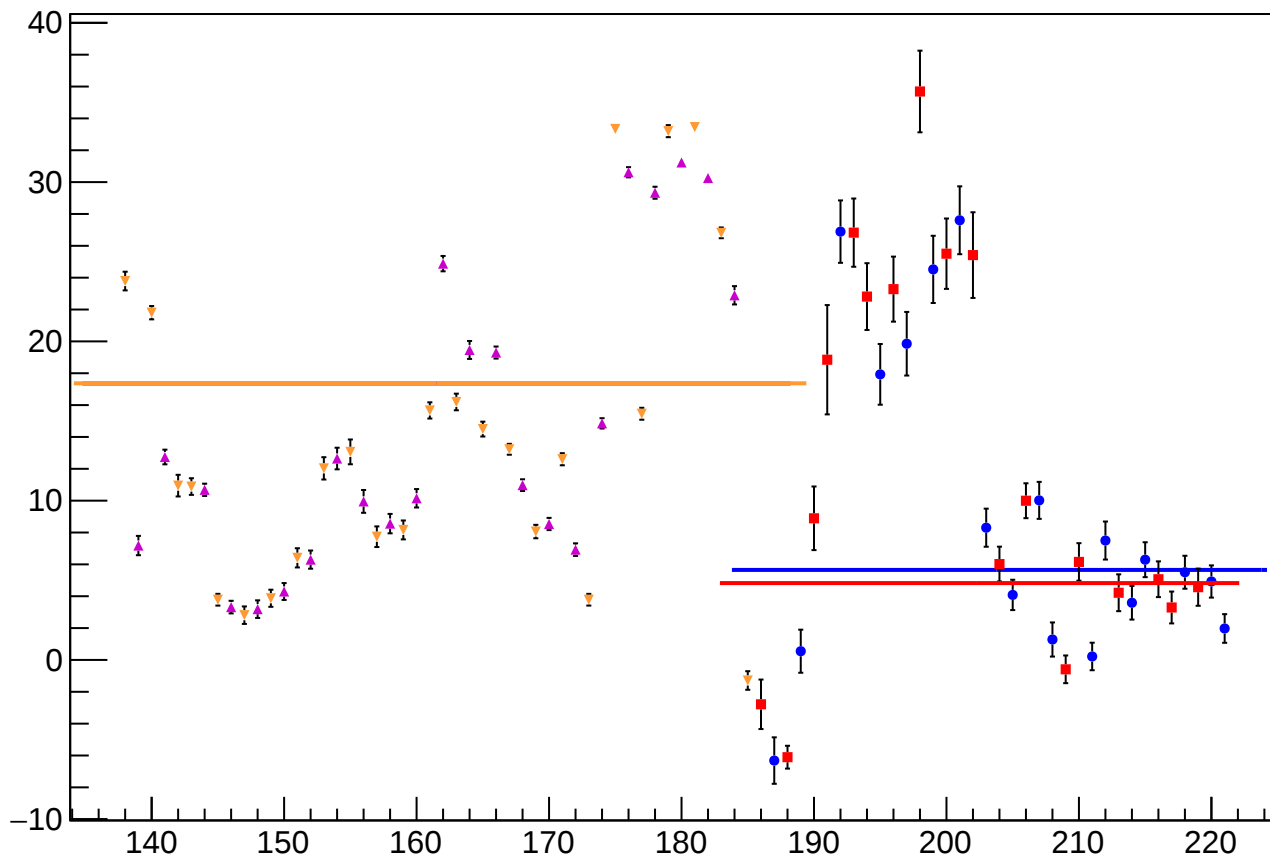
Right: 0.579 ± 0.022 $\chi^2/\text{NDF}: 2687.8/35$

In: 0.413 ± 0.004 $\chi^2/\text{NDF}: 1663.3/40$

Out: 0.414 ± 0.004 $\chi^2/\text{NDF}: 2070.4/42$

All: 0.413 ± 0.003 $\chi^2/\text{NDF}: 3733.8/83$

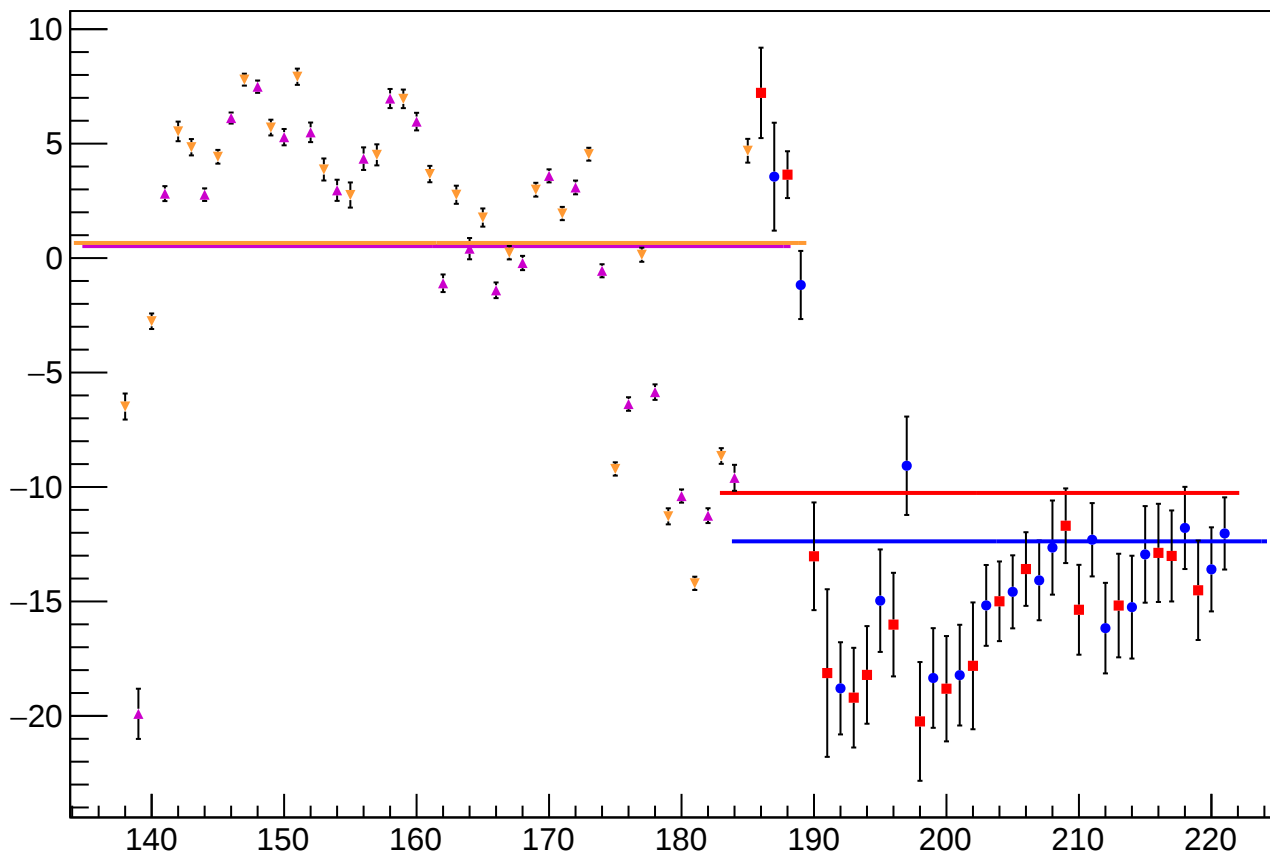
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.652 $\pm$ 0.282 χ^2 /NDF: 579.0/17
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 4.826 $\pm$ 0.303 χ^2 /NDF: 895.6/17
 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: 5.269 $\pm$ 0.207 χ^2 /NDF: 1478.6/35
 In: 16.297 $\pm$ 0.085 χ^2 /NDF:14891.6/40
 Out: 16.412 $\pm$ 0.084 χ^2 /NDF:18812.3/42
 All: 16.355 $\pm$ 0.060 χ^2 /NDF: 33704.9/83

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.374 ± 0.444 χ^2/NDF : 142.2/17

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.260 ± 0.457 χ^2/NDF : 373.5/17

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

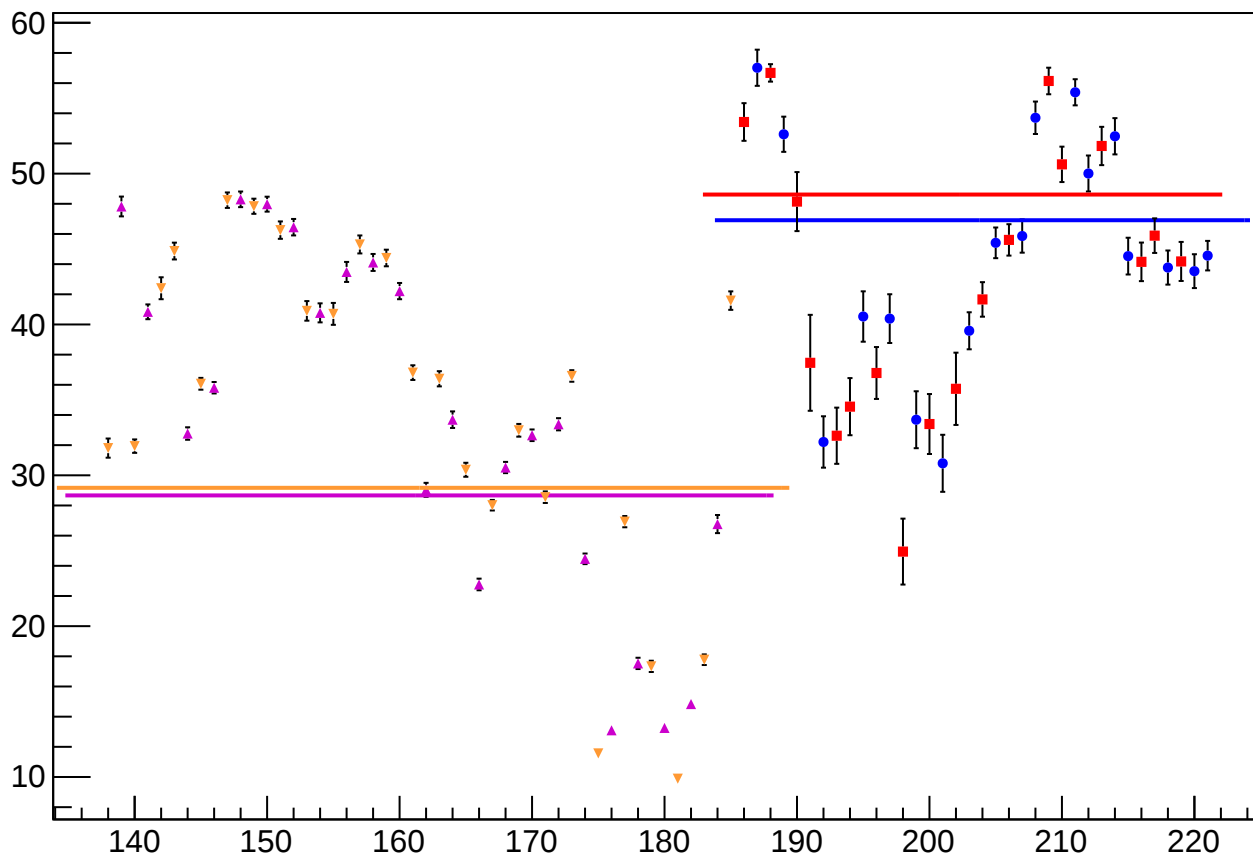
Right: -11.347 ± 0.318 χ^2/NDF : 526.7/35

In: 0.204 ± 0.070 χ^2/NDF : 7694.2/40

Out: 0.415 ± 0.069 χ^2/NDF : 9486.0/42

All: 0.311 ± 0.049 χ^2/NDF : 17184.7/83

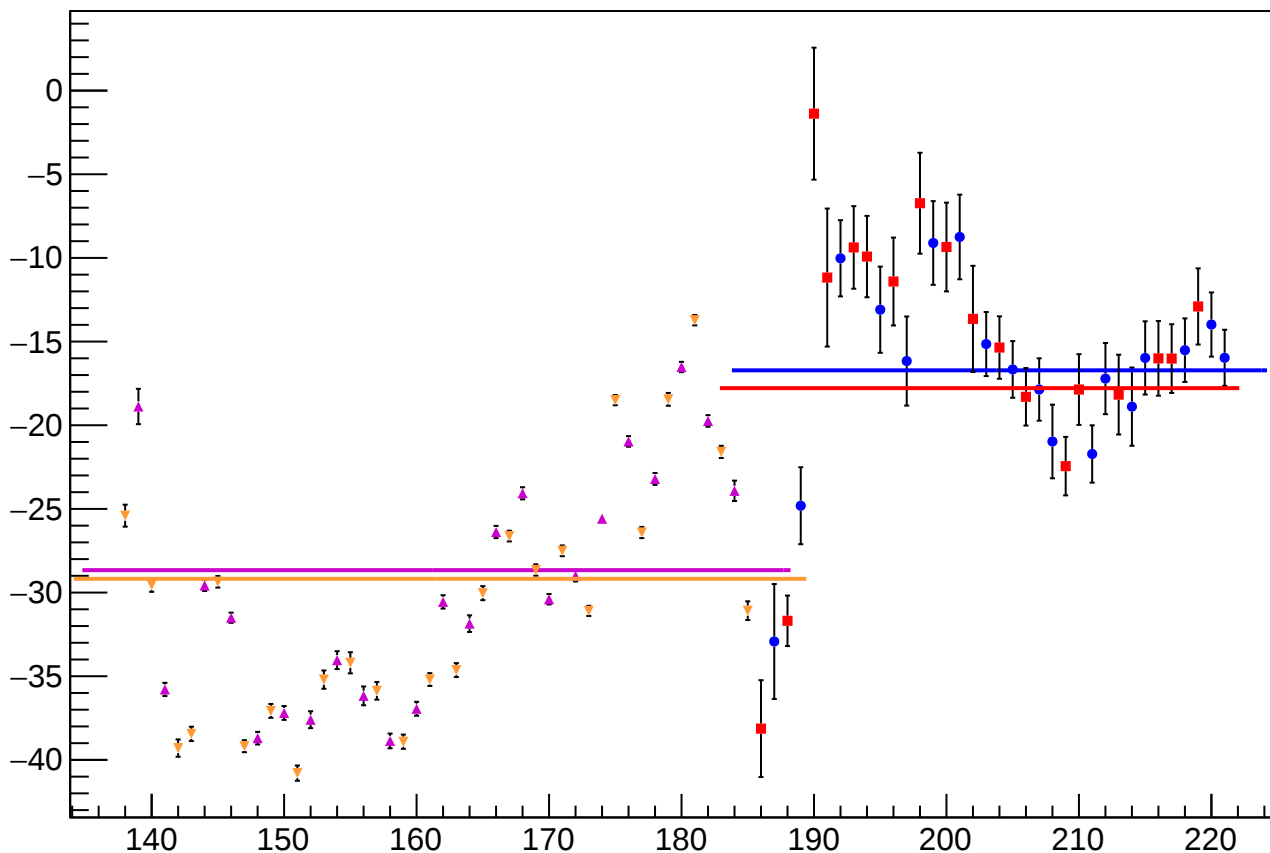
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 46.910 $\pm$ 0.284 χ^2 /NDF: 551.2/17
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 48.613 $\pm$ 0.291 χ^2 /NDF: 759.5/17
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 47.741 $\pm$ 0.203 χ^2 /NDF: 1328.3/35
 In: 30.305 $\pm$ 0.085 χ^2 /NDF:21159.5/40
 Out: 30.794 $\pm$ 0.084 χ^2 /NDF:23829.7/42
 All: 30.552 $\pm$ 0.060 χ^2 /NDF: 45005.9/83

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



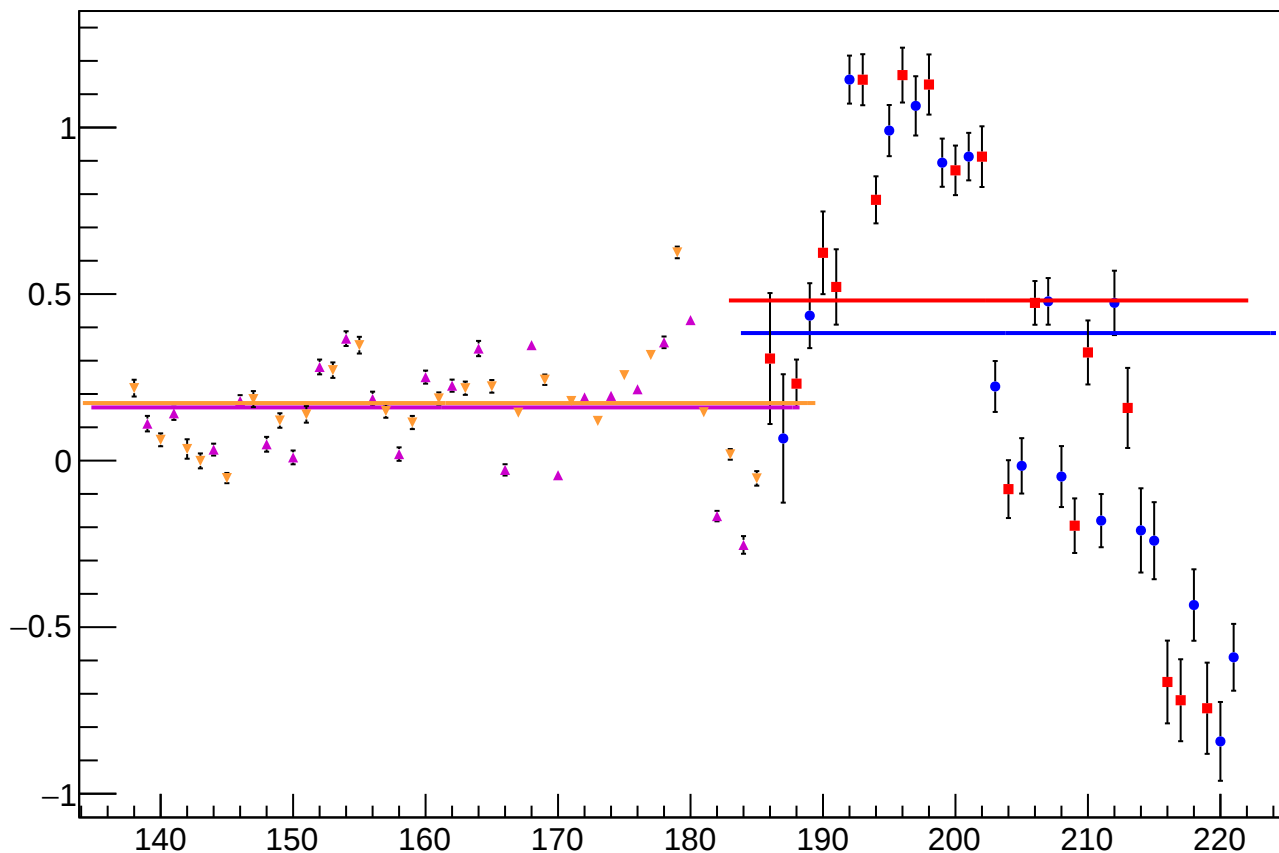
Right In: -16.718 ± 0.497 $\chi^2/\text{NDF}: 81.5/17$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -17.783 ± 0.535 $\chi^2/\text{NDF}: 222.3/17$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.211 ± 0.364 $\chi^2/\text{NDF}: 305.9/35$

In: -28.360 ± 0.079 $\chi^2/\text{NDF}: 7314.4/40$
 Out: -28.940 ± 0.077 $\chi^2/\text{NDF}: 9748.2/42$

All: -28.655 ± 0.055 $\chi^2/\text{NDF}: 17090.1/83$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.383 ± 0.021 χ^2/NDF : 753.6/17

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.481 ± 0.021 χ^2/NDF : 656.9/17

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

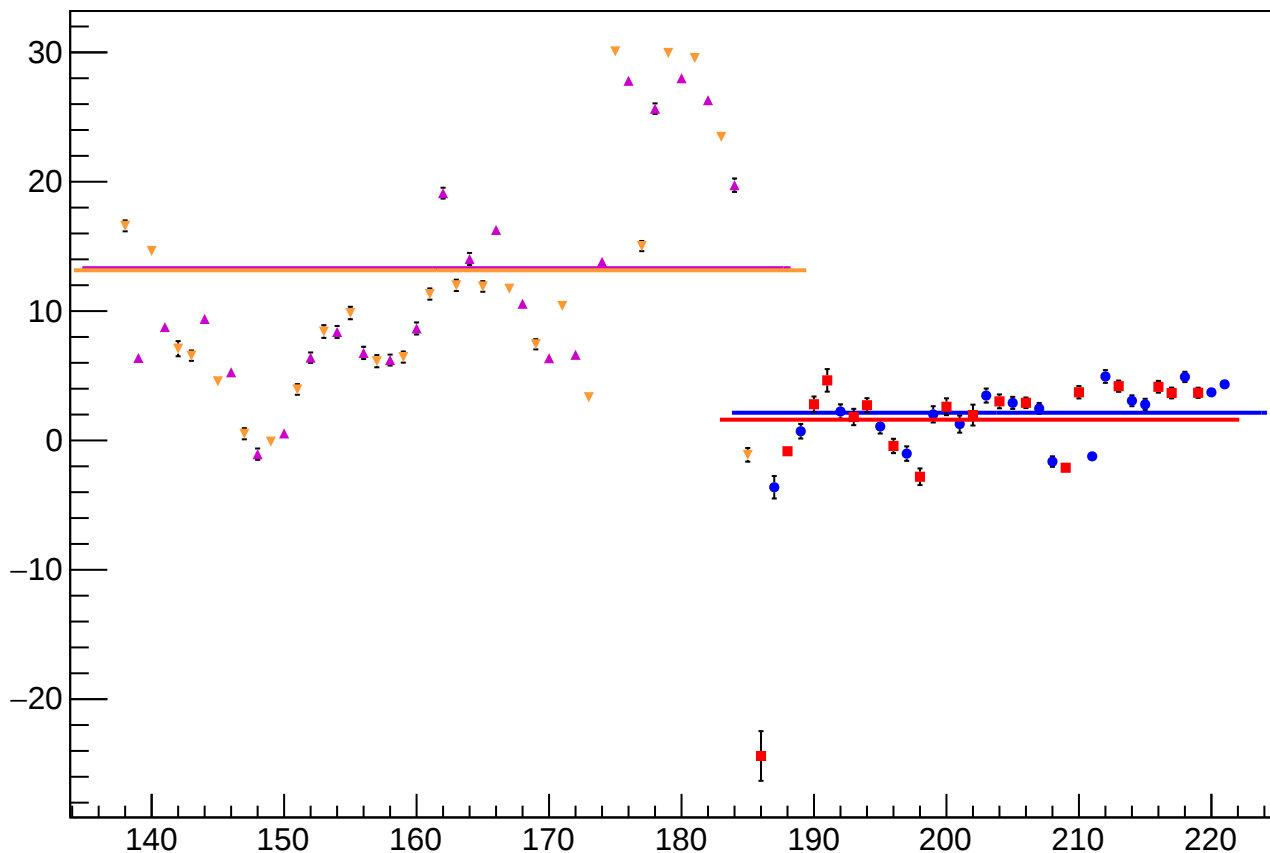
Right: 0.430 ± 0.015 χ^2/NDF : 1421.2/35

In: 0.166 ± 0.004 χ^2/NDF : 2923.0/40

Out: 0.181 ± 0.004 χ^2/NDF : 2336.2/42

All: 0.174 ± 0.003 χ^2/NDF : 5267.9/83

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.142 ± 0.111 $\chi^2/\text{NDF}: 400.0/17$

Left Out: 13.153 ± 0.075 $\chi^2/\text{NDF}: 17079.7/24$

Right Out: 1.605 ± 0.114 $\chi^2/\text{NDF}: 618.7/17$

Left In: 13.315 ± 0.077 $\chi^2/\text{NDF}: 13977.7/22$

Left: 13.232 ± 0.054 $\chi^2/\text{NDF}: 31059.6/47$

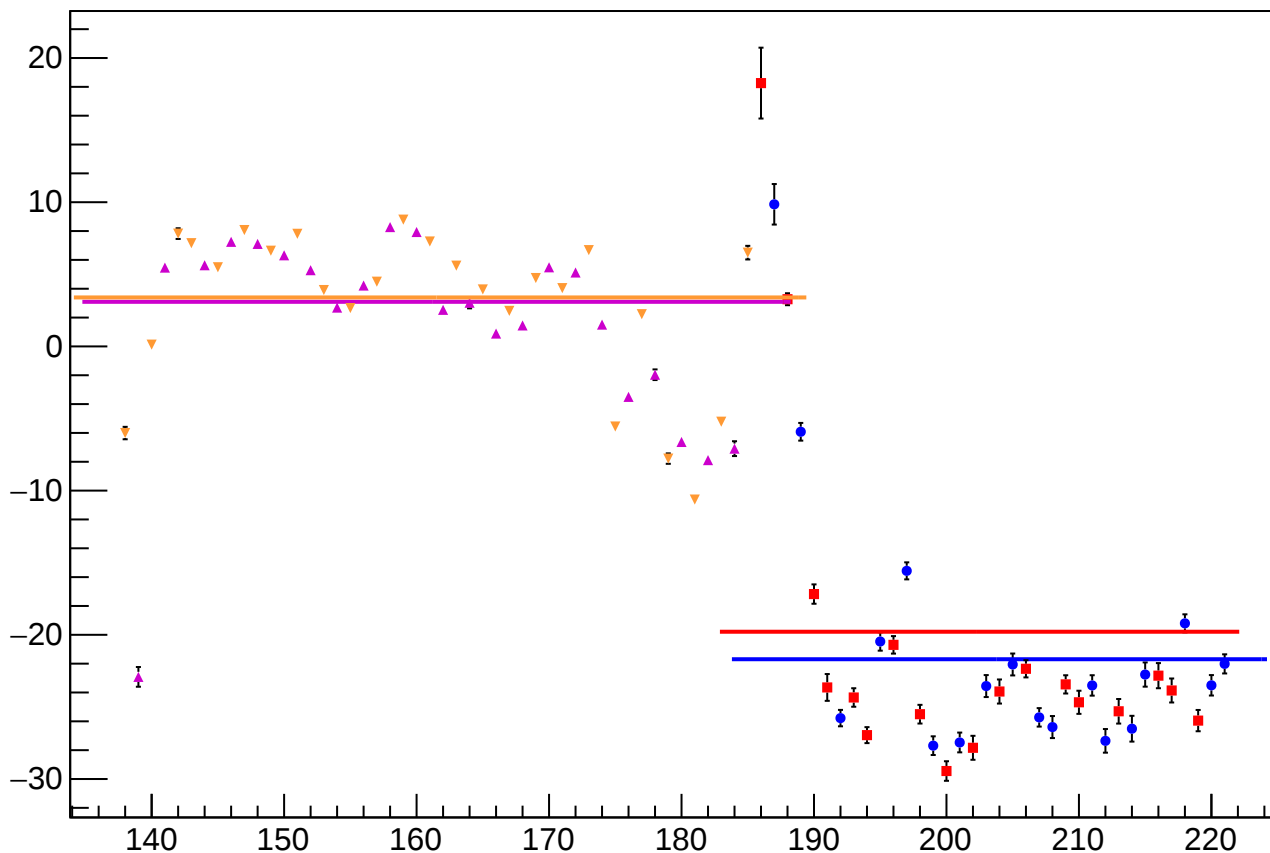
Right: 1.879 ± 0.080 $\chi^2/\text{NDF}: 1030.1/35$

In: 9.696 ± 0.063 $\chi^2/\text{NDF}: 21178.6/40$

Out: 9.640 ± 0.063 $\chi^2/\text{NDF}: 24868.5/42$

All: 9.668 ± 0.045 $\chi^2/\text{NDF}: 46047.5/83$

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.693 ± 0.165 $\chi^2/\text{NDF}: 1674.4/17$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.787 ± 0.162 $\chi^2/\text{NDF}: 4224.9/17$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

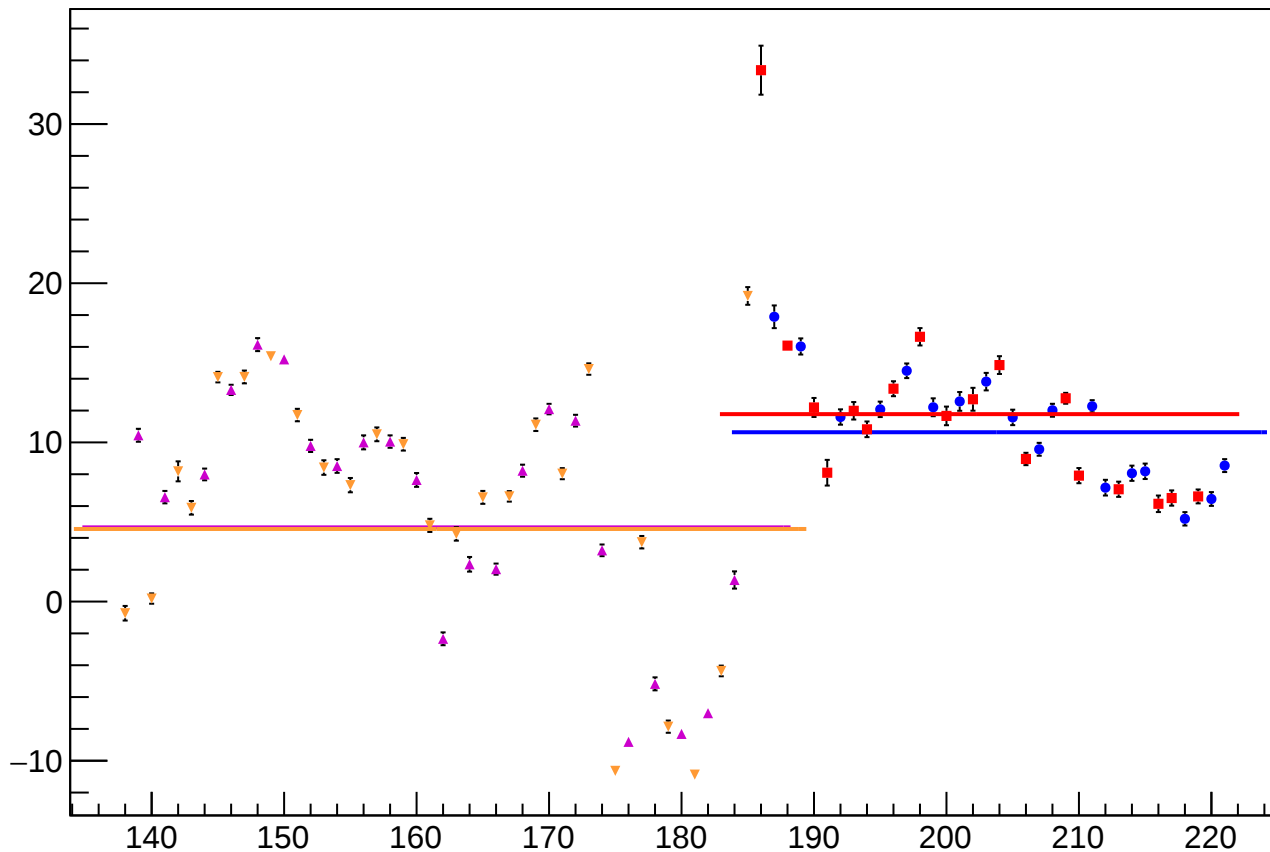
Right: -20.723 ± 0.116 $\chi^2/\text{NDF}: 5967.2/35$

In: 0.152 ± 0.057 $\chi^2/\text{NDF}: 28641.4/40$

Out: 0.735 ± 0.055 $\chi^2/\text{NDF}: 30425.0/42$

All: 0.454 ± 0.040 $\chi^2/\text{NDF}: 59120.8/83$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.638+/-0.111 χ^2/NDF : 783.3/17

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 11.776+/-0.109 χ^2/NDF : 1301.8/17

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

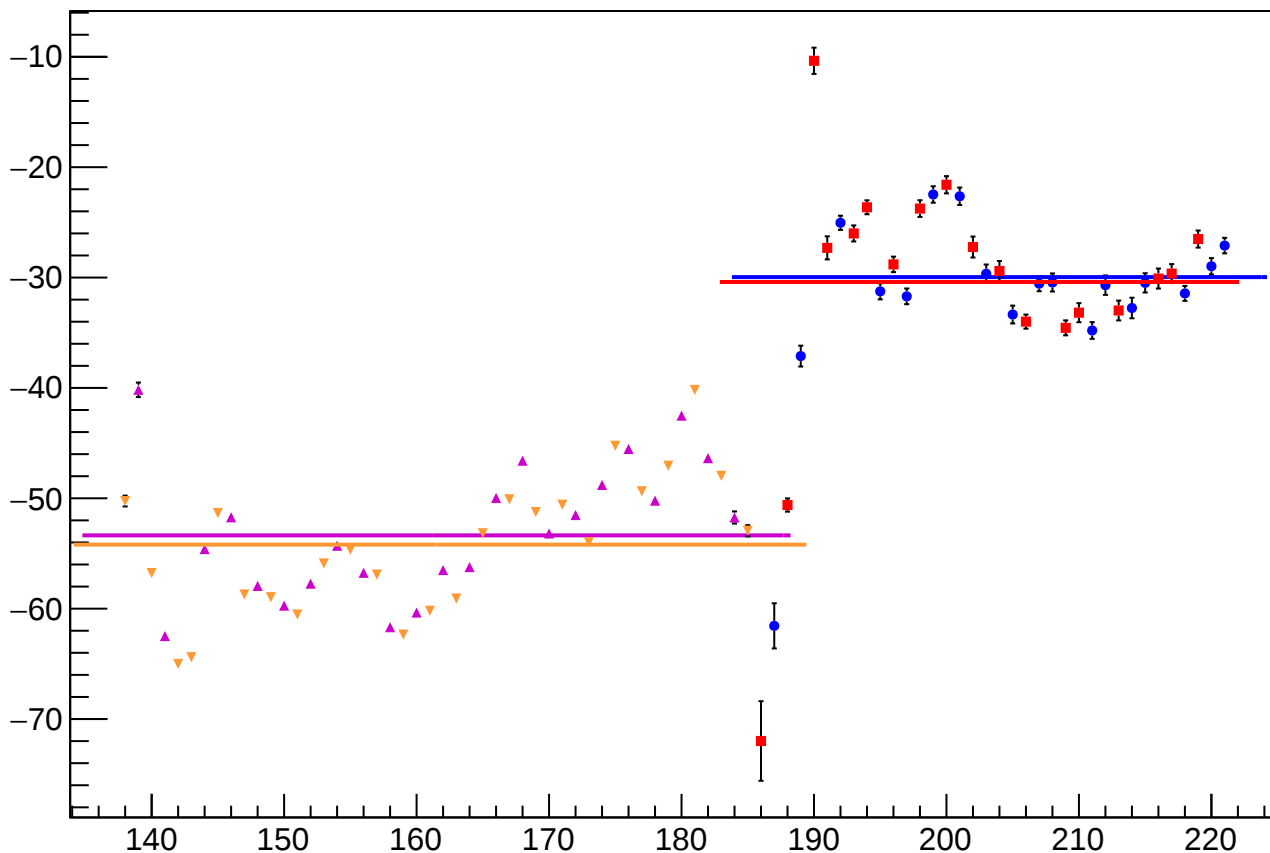
Right: 11.217+/-0.078 χ^2/NDF : 2138.7/35

In: 6.602+/-0.063 χ^2/NDF :14029.4/40

Out: 6.902+/-0.062 χ^2/NDF :17865.9/42

All: 6.755+/-0.044 χ^2/NDF : 31906.8/83

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

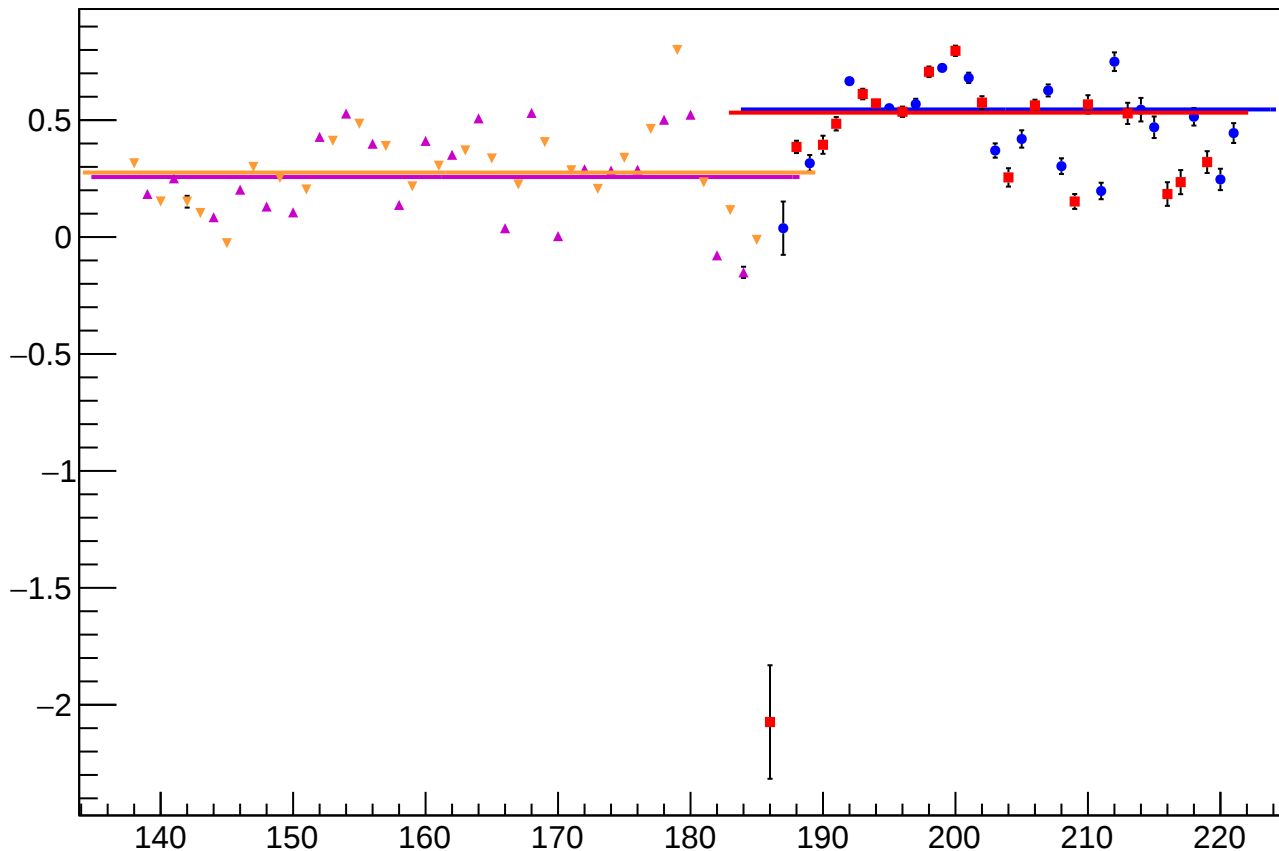


Right In: -29.959 ± 0.185 $\chi^2/\text{NDF}: 643.3/17$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -30.402 ± 0.189 $\chi^2/\text{NDF}: 2052.5/17$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$
 Right: -30.176 ± 0.132 $\chi^2/\text{NDF}: 2698.6/35$
 In: -50.542 ± 0.064 $\chi^2/\text{NDF}: 21579.3/40$
 Out: -51.576 ± 0.063 $\chi^2/\text{NDF}: 24669.2/42$

All: -51.072 ± 0.045 $\chi^2/\text{NDF}: 46381.3/83$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.546 $\pm$ 0.007 χ^2 /NDF: 486.4/17

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.532 $\pm$ 0.007 χ^2 /NDF: 682.1/17

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

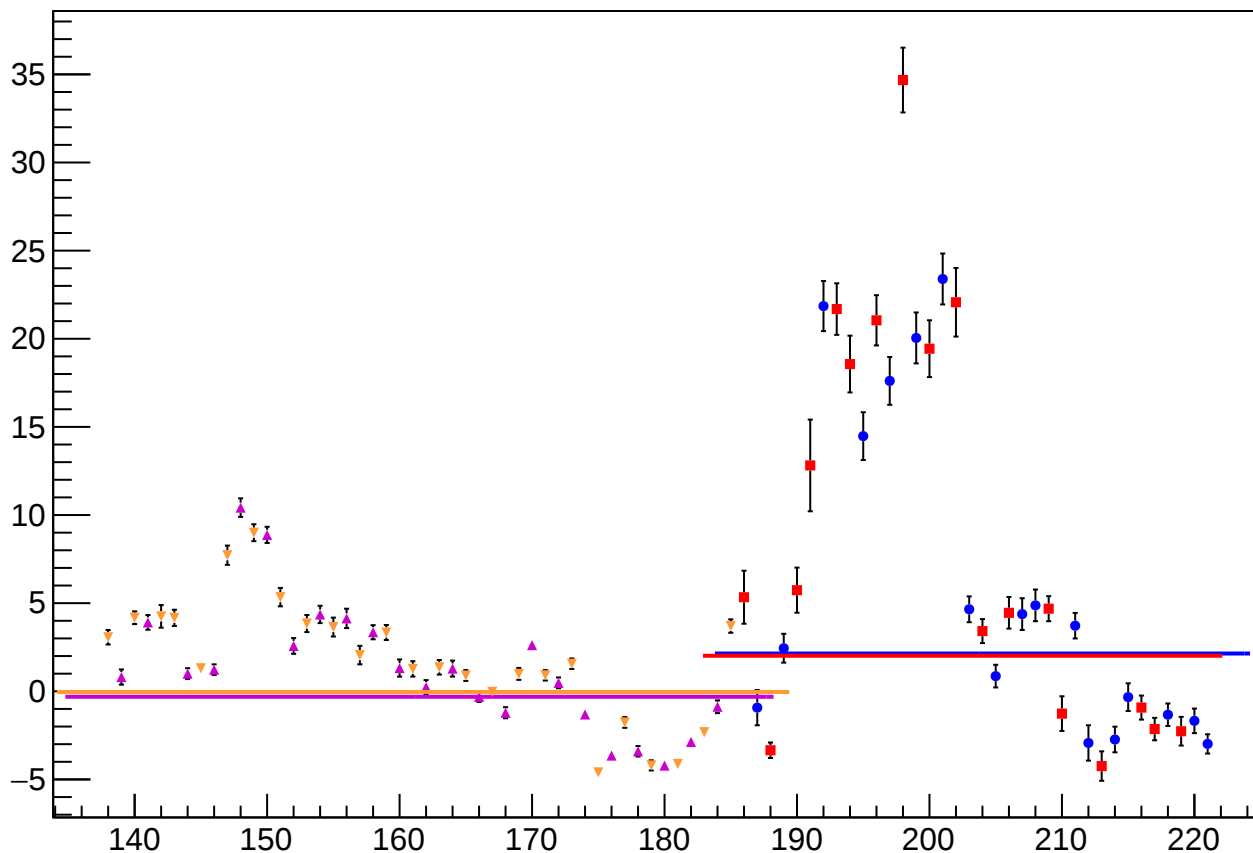
Right: 0.539 $\pm$ 0.005 χ^2 /NDF: 1170.4/35

In: 0.303 $\pm$ 0.003 χ^2 /NDF:5498.0/40

Out: 0.318 $\pm$ 0.003 χ^2 /NDF:4475.8/42

All: 0.311 $\pm$ 0.002 χ^2 /NDF: 9988.8/83

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.144 ± 0.196 $\chi^2/\text{NDF}: 1049.3/17$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 2.017 ± 0.210 $\chi^2/\text{NDF}: 1365.6/17$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

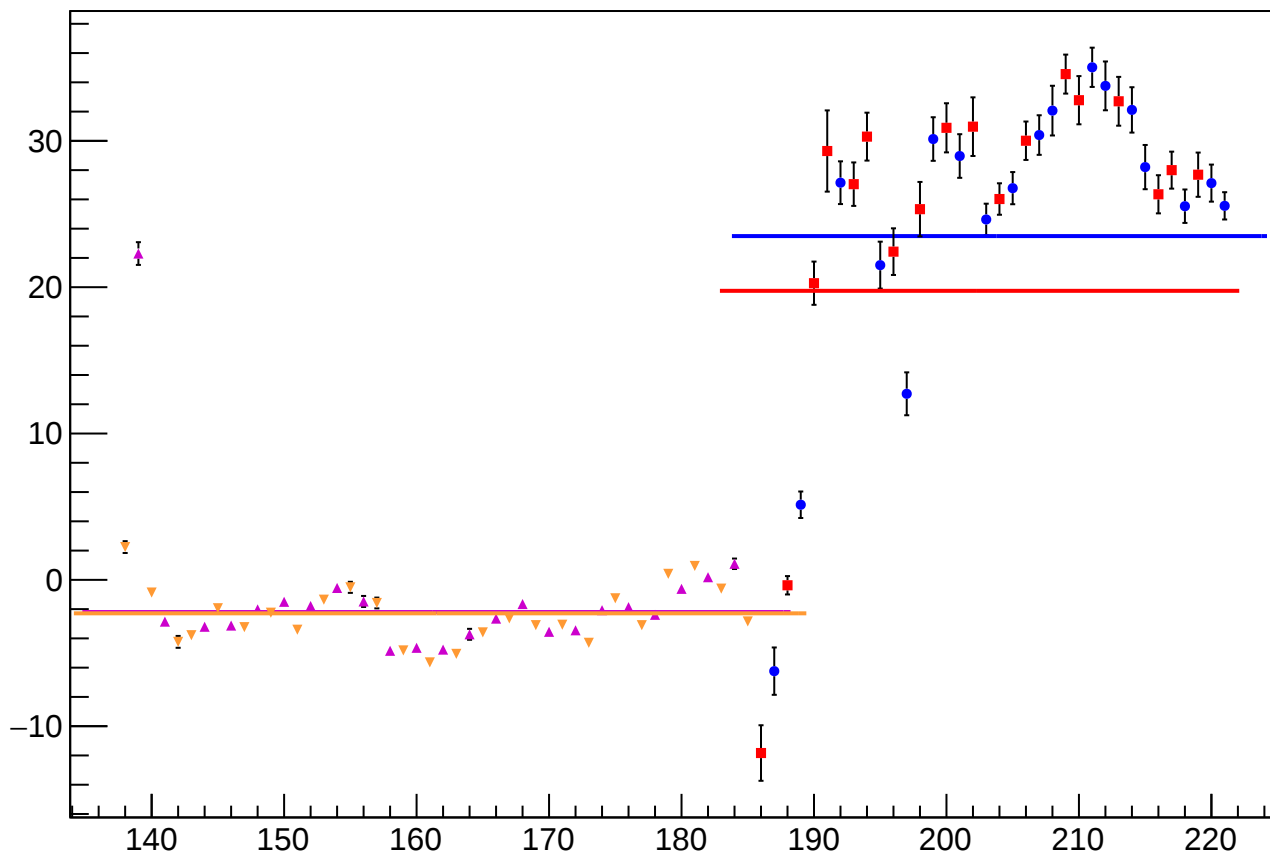
Right: 2.085 ± 0.143 $\chi^2/\text{NDF}: 2415.1/35$

In: -0.051 ± 0.064 $\chi^2/\text{NDF}: 3440.0/40$

Out: 0.147 ± 0.063 $\chi^2/\text{NDF}: 4090.3/42$

All: 0.049 ± 0.045 $\chi^2/\text{NDF}: 7535.2/83$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 23.493 ± 0.305 $\chi^2/\text{NDF}: 1074.5/17$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 19.752 ± 0.318 $\chi^2/\text{NDF}: 1906.2/17$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

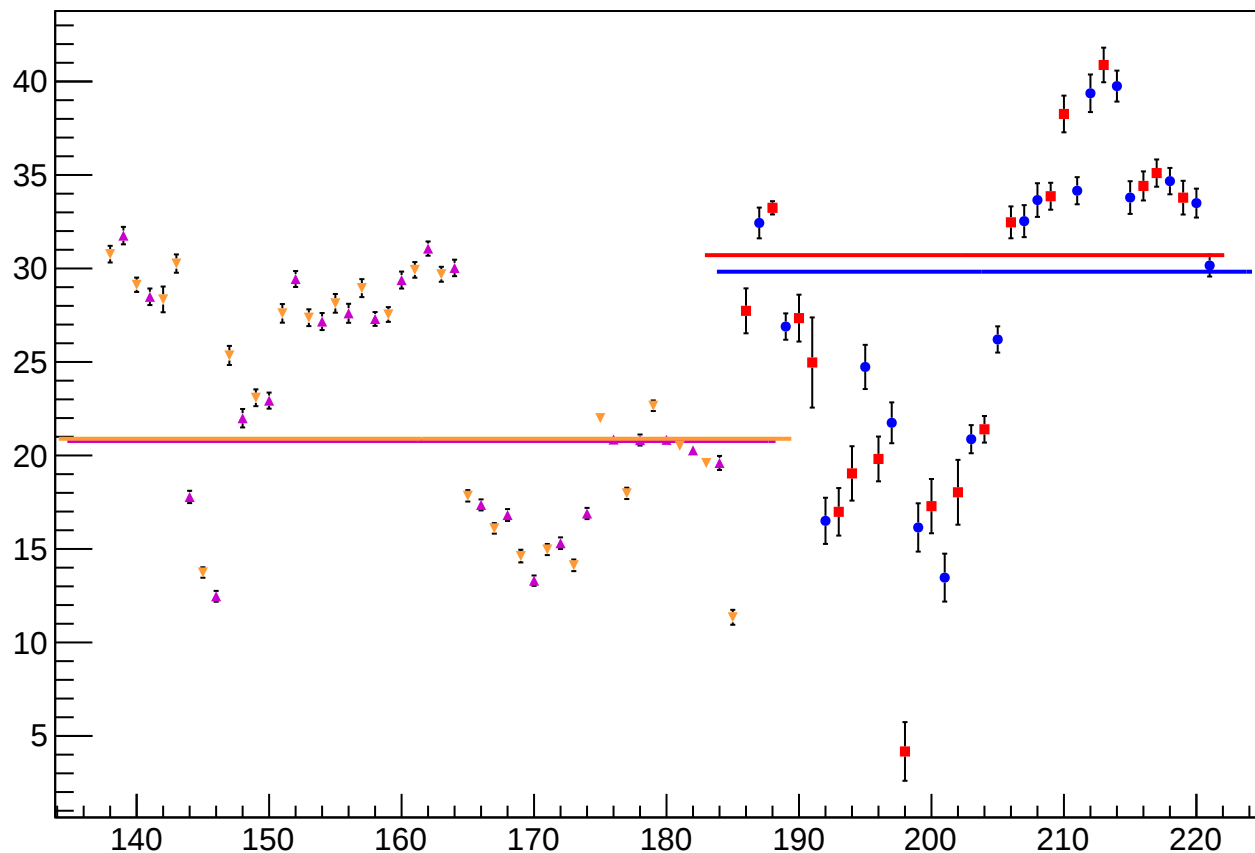
Right: 21.696 ± 0.220 $\chi^2/\text{NDF}: 3052.7/35$

In: -1.389 ± 0.054 $\chi^2/\text{NDF}: 9599.0/40$

Out: -1.666 ± 0.053 $\chi^2/\text{NDF}: 7719.1/42$

All: -1.530 ± 0.038 $\chi^2/\text{NDF}: 17331.4/83$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.826 $\pm$ 0.198 χ^2 /NDF: 1048.8/17

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 30.712 $\pm$ 0.201 χ^2 /NDF: 1204.6/17

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

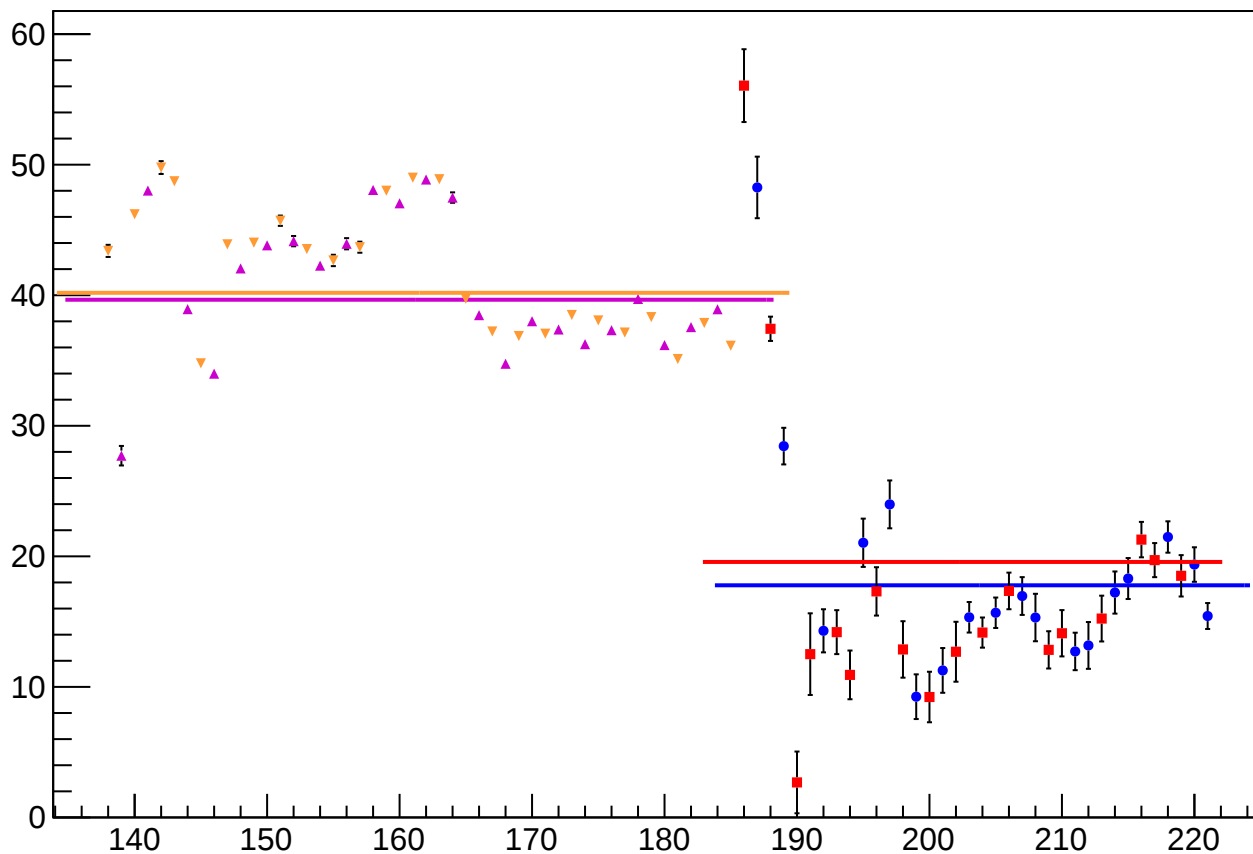
Right: 30.262 $\pm$ 0.141 χ^2 /NDF: 2263.2/35

In: 21.718 $\pm$ 0.064 χ^2 /NDF:8849.9/40

Out: 21.868 $\pm$ 0.063 χ^2 /NDF:10008.0/42

All: 21.793 $\pm$ 0.045 χ^2 /NDF: 18860.7/83

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.782 ± 0.344 $\chi^2/\text{NDF}: 328.8/17$

Left Out: 40.186 ± 0.060 $\chi^2/\text{NDF}: 5932.7/24$

Right Out: 19.571 ± 0.376 $\chi^2/\text{NDF}: 740.6/17$

Left In: 39.655 ± 0.061 $\chi^2/\text{NDF}: 5298.6/22$

Left: 39.925 ± 0.043 $\chi^2/\text{NDF}: 11269.2/47$

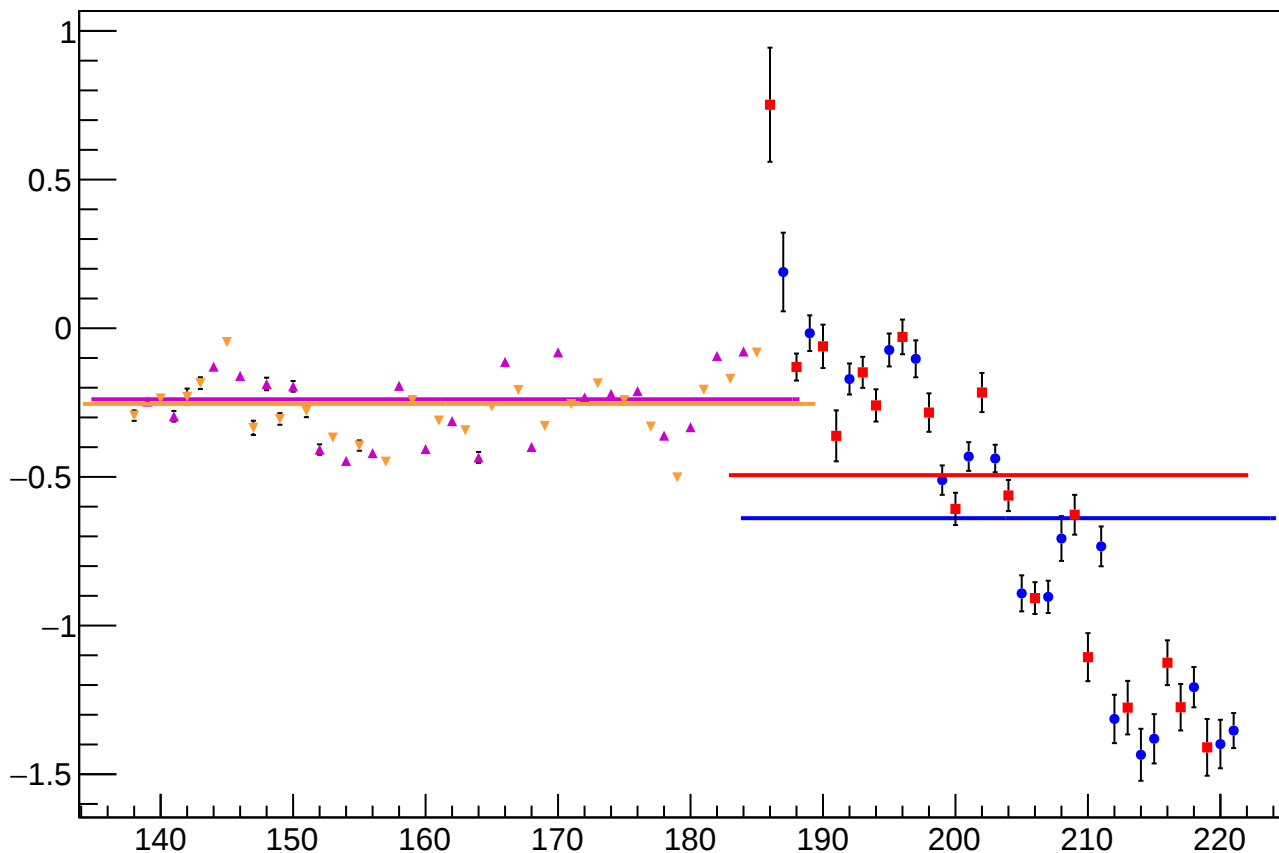
Right: 18.599 ± 0.254 $\chi^2/\text{NDF}: 1081.7/35$

In: 38.980 ± 0.060 $\chi^2/\text{NDF}: 9540.3/40$

Out: 39.666 ± 0.060 $\chi^2/\text{NDF}: 9610.0/42$

All: 39.328 ± 0.042 $\chi^2/\text{NDF}: 19215.6/83$

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.639 ± 0.015 $\chi^2/\text{NDF}: 1029.5/17$

Left Out: -0.255 ± 0.003 $\chi^2/\text{NDF}: 1420.4/24$

Right Out: -0.494 ± 0.015 $\chi^2/\text{NDF}: 762.9/17$

Left In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1750.5/22$

Left: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3186.7/47$

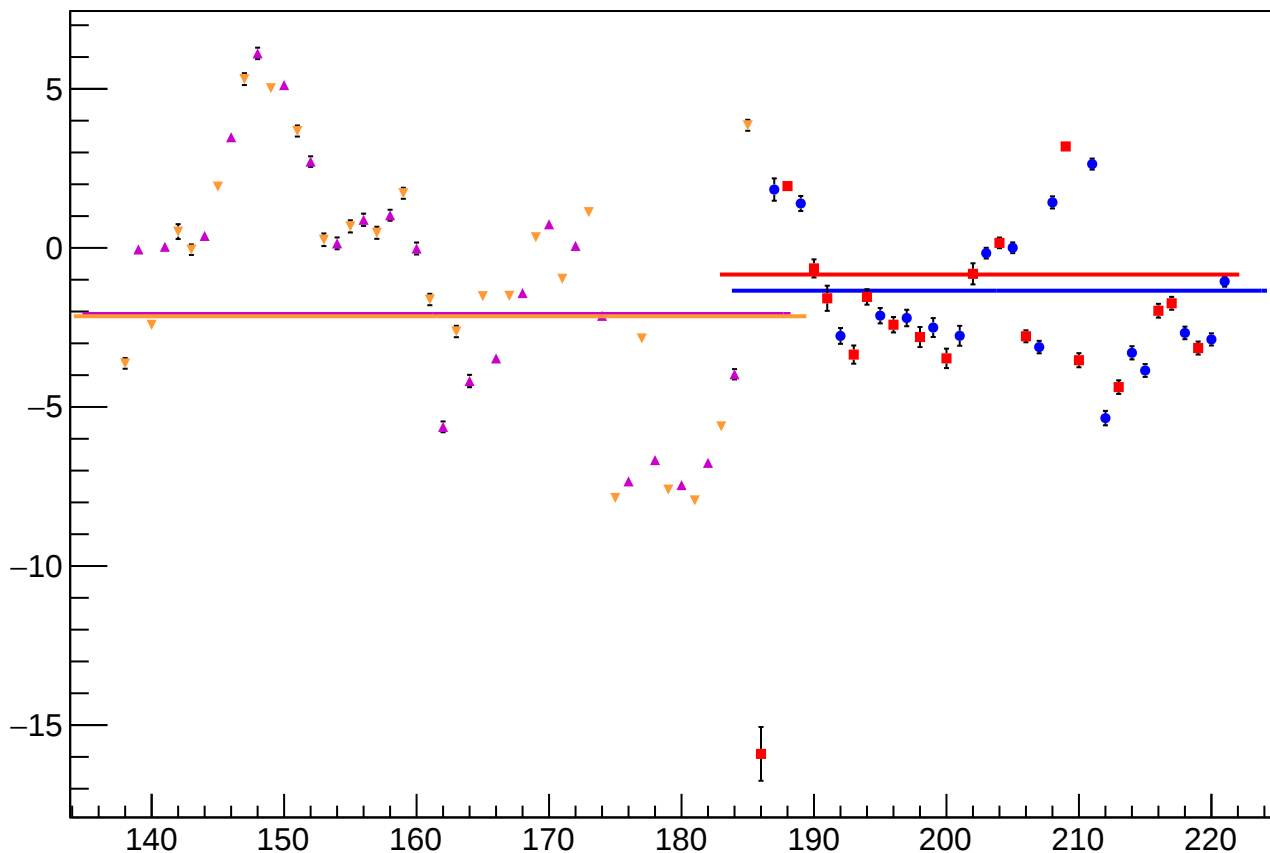
Right: -0.569 ± 0.011 $\chi^2/\text{NDF}: 1839.4/35$

In: -0.253 ± 0.003 $\chi^2/\text{NDF}: 3502.4/40$

Out: -0.262 ± 0.003 $\chi^2/\text{NDF}: 2422.8/42$

All: -0.258 ± 0.002 $\chi^2/\text{NDF}: 5930.7/83$

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

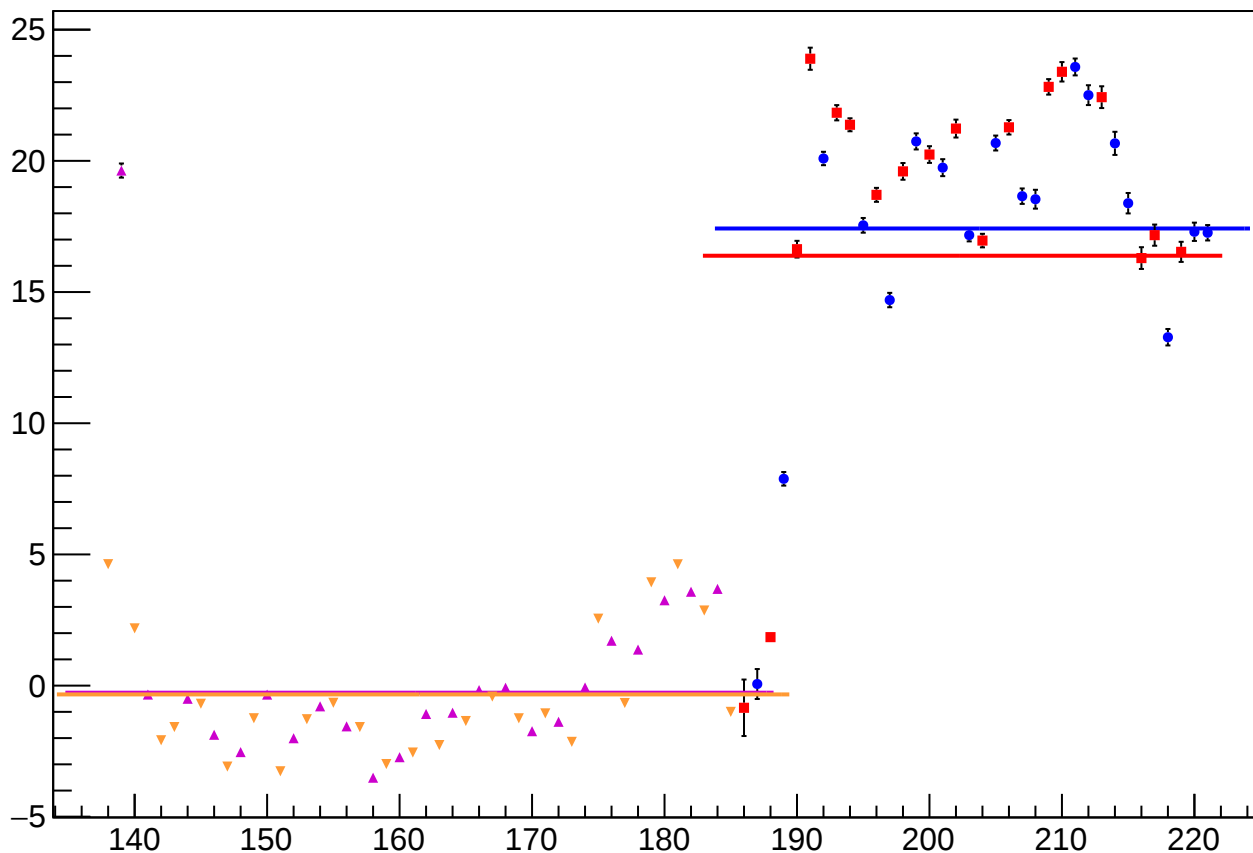


Right In: -1.345 ± 0.049 χ^2/NDF : 1903.4/17
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.837 ± 0.050 χ^2/NDF : 2595.5/17
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -1.096 ± 0.035 χ^2/NDF : 4550.8/35
 In: -1.918 ± 0.023 χ^2/NDF : 25321.5/40
 Out: -1.879 ± 0.023 χ^2/NDF : 27671.1/42

All: -1.898 ± 0.016 χ^2/NDF : 52994.1/83

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.422 $\pm$ 0.073 χ^2 /NDF: 3598.7/17

Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24

Right Out: 16.384 $\pm$ 0.071 χ^2 /NDF: 11338.1/17

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

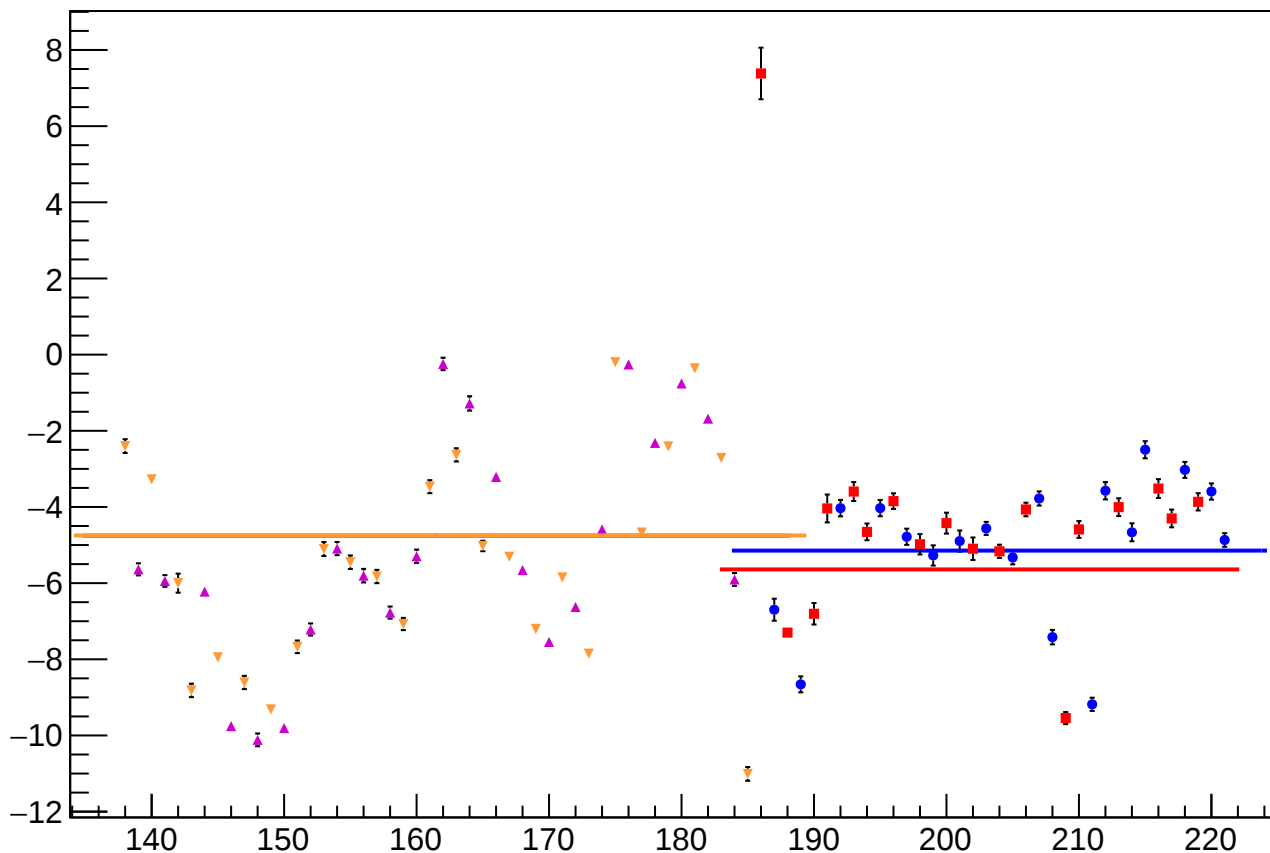
Right: 16.890 $\pm$ 0.051 χ^2 /NDF: 15040.1/35

In: 1.072 $\pm$ 0.020 χ^2 /NDF:71011.6/40

Out: 0.952 $\pm$ 0.020 χ^2 /NDF:74706.0/42

All: 1.011 $\pm$ 0.014 χ^2 /NDF: 145735.8/83

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

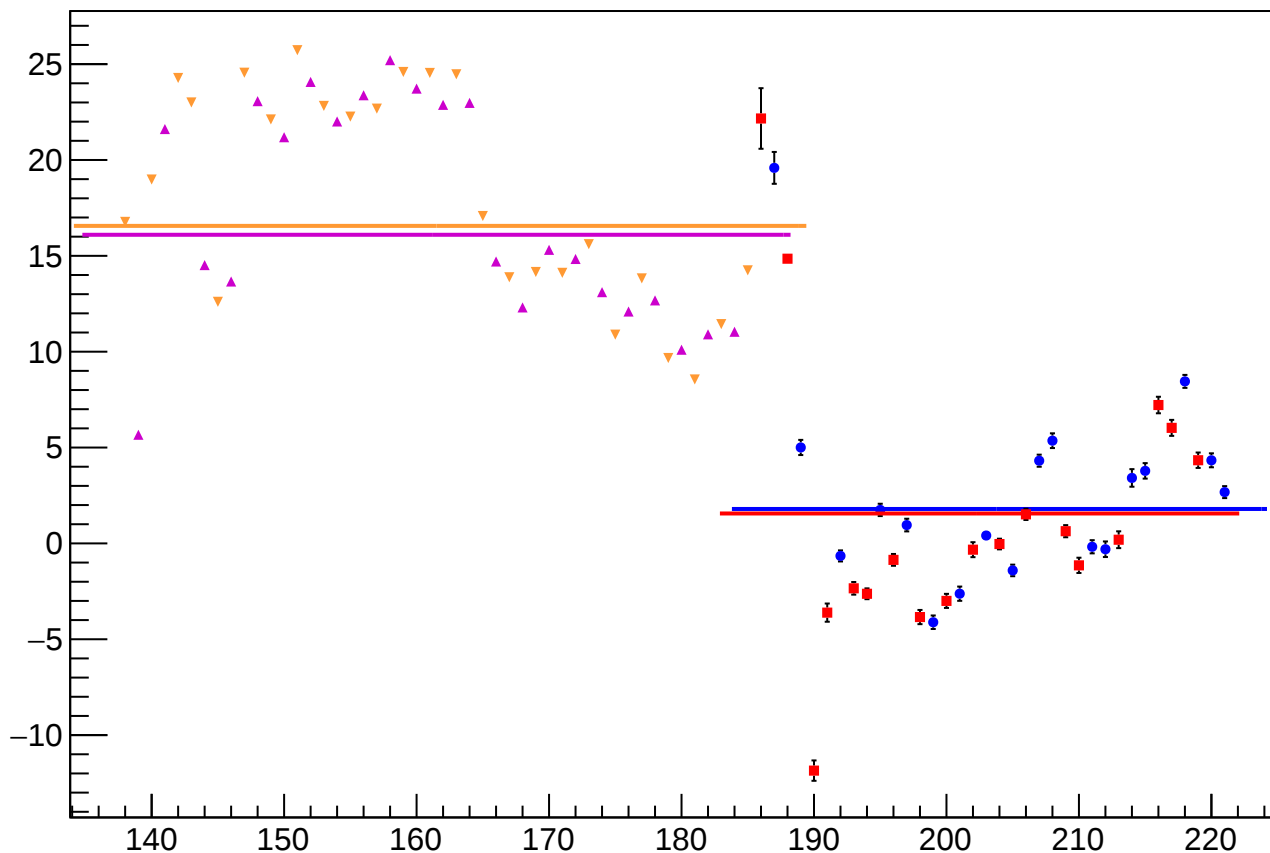


Right In: -5.145 ± 0.049 $\chi^2/\text{NDF}: 1461.3/17$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.639 ± 0.047 $\chi^2/\text{NDF}: 1868.7/17$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.401 ± 0.034 $\chi^2/\text{NDF}: 3382.3/35$
 In: -4.840 ± 0.023 $\chi^2/\text{NDF}: 15630.2/40$
 Out: -4.952 ± 0.023 $\chi^2/\text{NDF}: 15430.8/42$

All: -4.897 ± 0.016 $\chi^2/\text{NDF}: 31073.0/83$

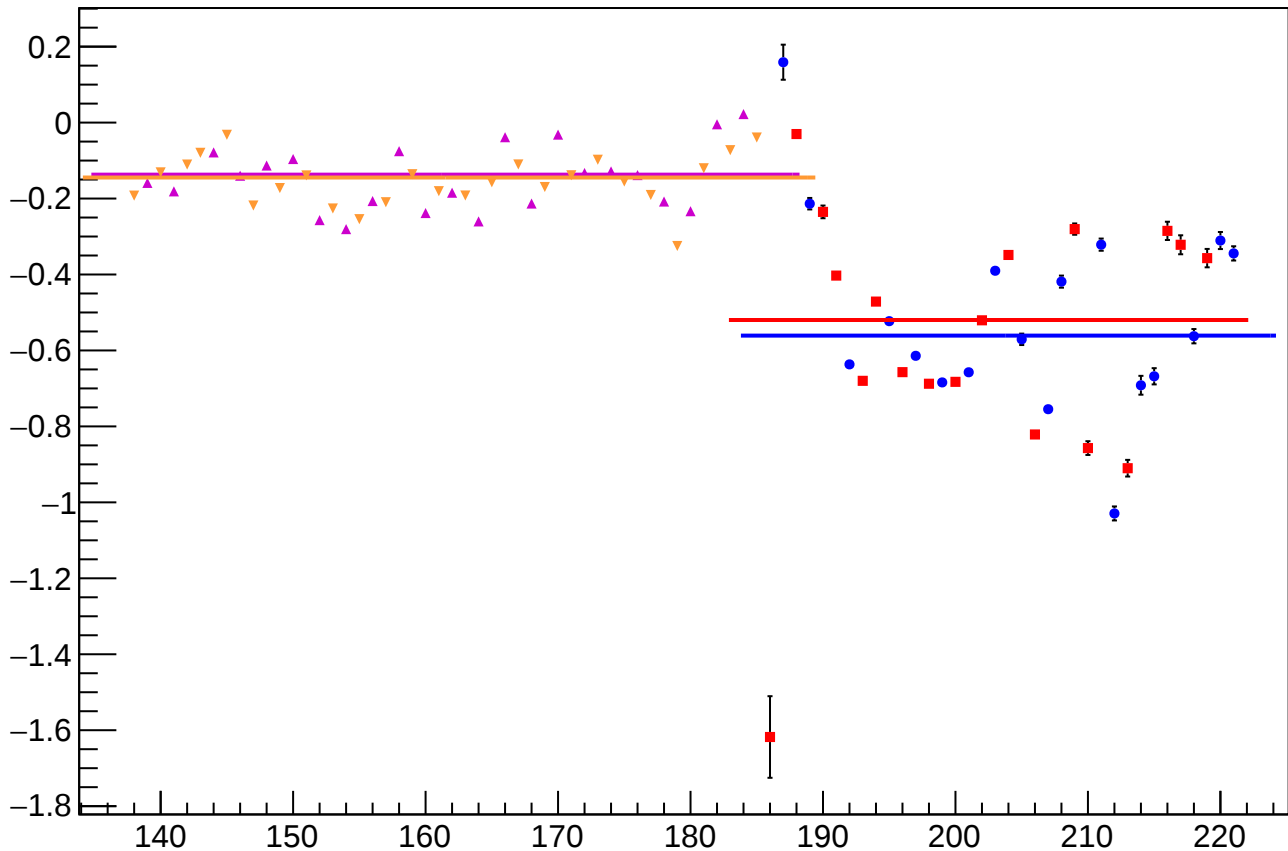
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.796 ± 0.082 $\chi^2/\text{NDF}: 1854.3/17$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 1.561 ± 0.083 $\chi^2/\text{NDF}: 5397.4/17$
 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: 1.680 ± 0.059 $\chi^2/\text{NDF}: 7255.8/35$
 In: 15.010 ± 0.023 $\chi^2/\text{NDF}: 72238.3/40$
 Out: 15.492 ± 0.022 $\chi^2/\text{NDF}: 89237.6/42$
 All: 15.255 ± 0.016 $\chi^2/\text{NDF}: 161705.8/83$

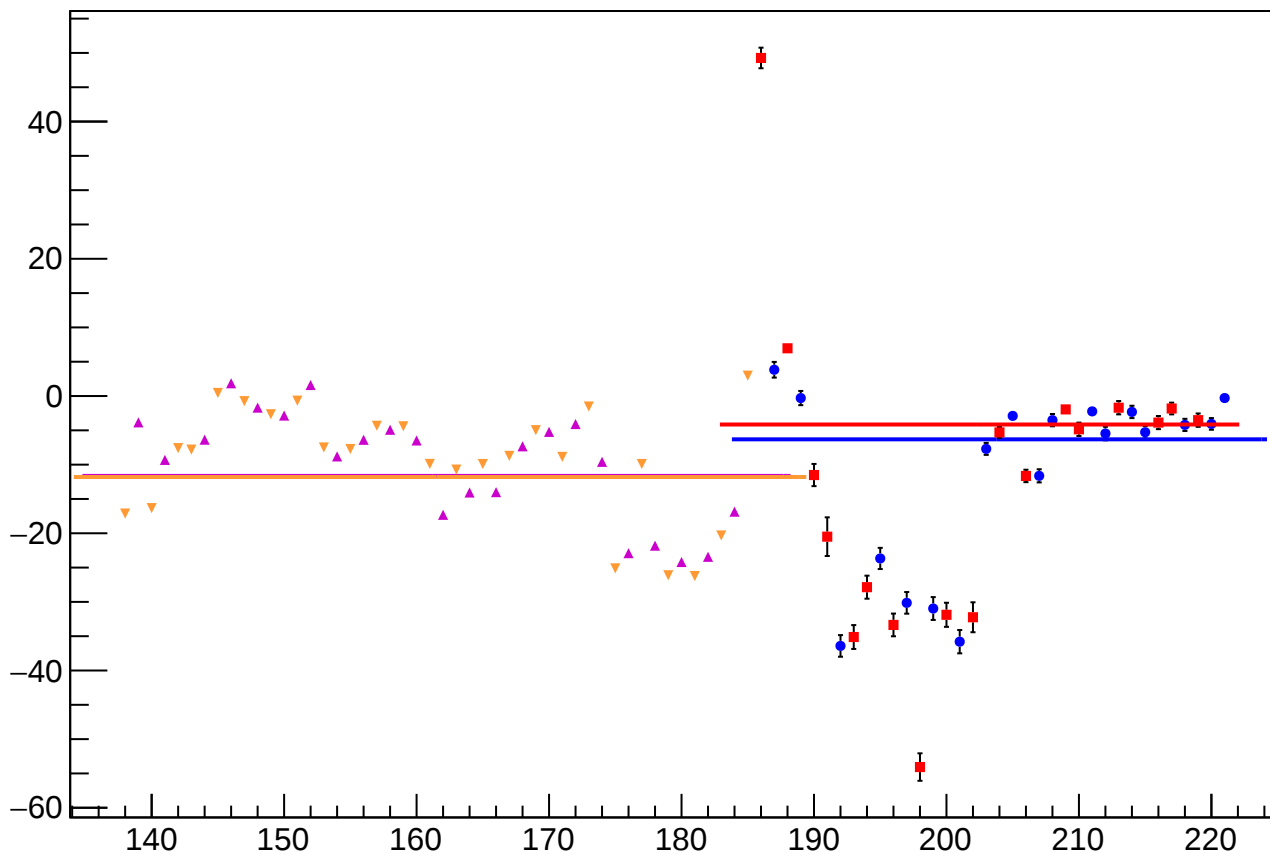
reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.561 ± 0.003 χ^2/NDF : 2953.5/17
 Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24
 Right Out: -0.520 ± 0.003 χ^2/NDF : 5698.5/17
 Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47
 Right: -0.539 ± 0.002 χ^2/NDF : 8740.1/35
 In: -0.181 ± 0.001 χ^2/NDF : 24464.8/40
 Out: -0.185 ± 0.001 χ^2/NDF : 23151.5/42
 All: -0.183 ± 0.001 χ^2/NDF : 47626.1/83

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.311 ± 0.228 χ^2/NDF : 1553.9/17
 Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24
 Right Out: -4.151 ± 0.245 χ^2/NDF : 3710.9/17
 Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

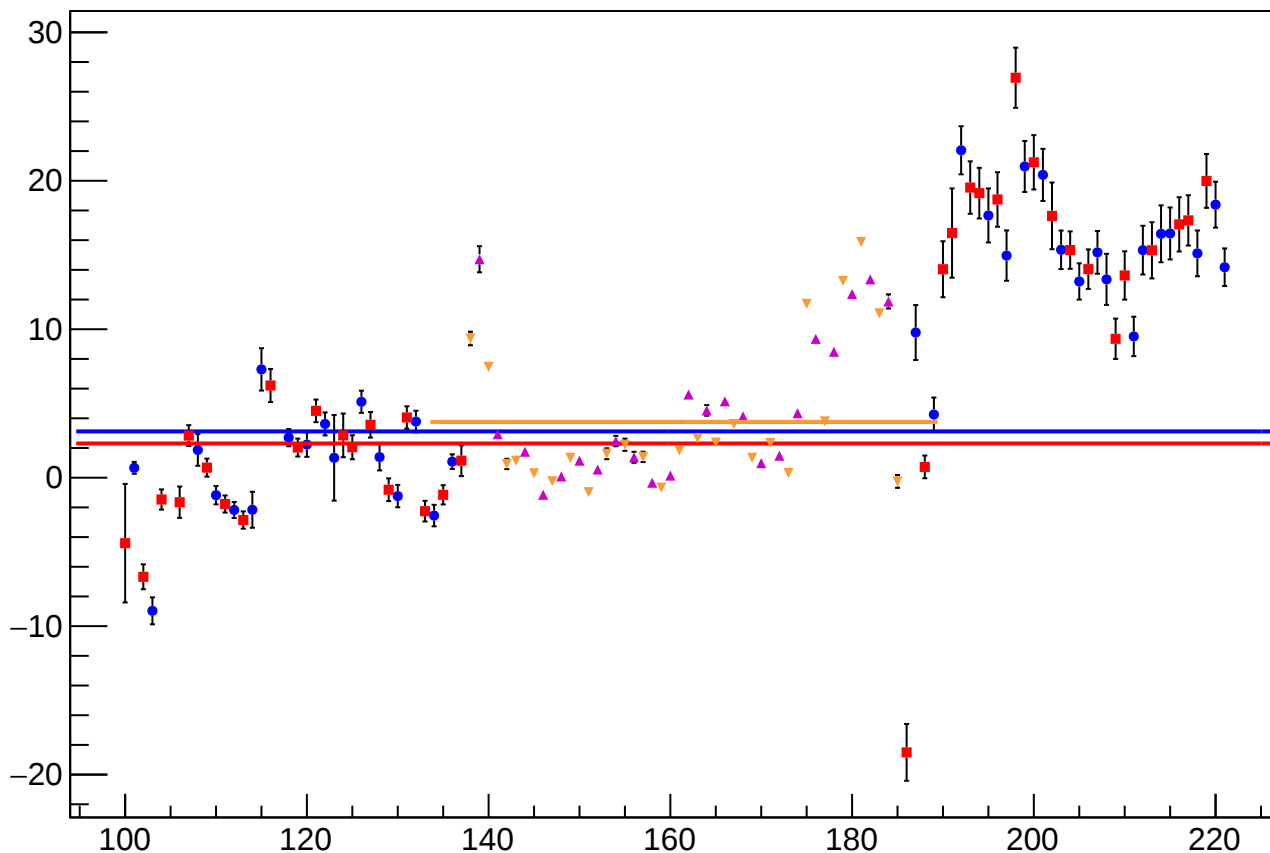
Right: -5.308 ± 0.167 χ^2/NDF : 5306.3/35

In: -11.165 ± 0.068 χ^2/NDF : 16171.3/40

Out: -11.221 ± 0.068 χ^2/NDF : 21917.5/42

All: -11.194 ± 0.048 χ^2/NDF : 38089.2/83

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.117 $\pm$ 0.154 χ^2 /NDF: 1663.9/34

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 2.305 $\pm$ 0.158 χ^2 /NDF: 1720.9/36

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF: 5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

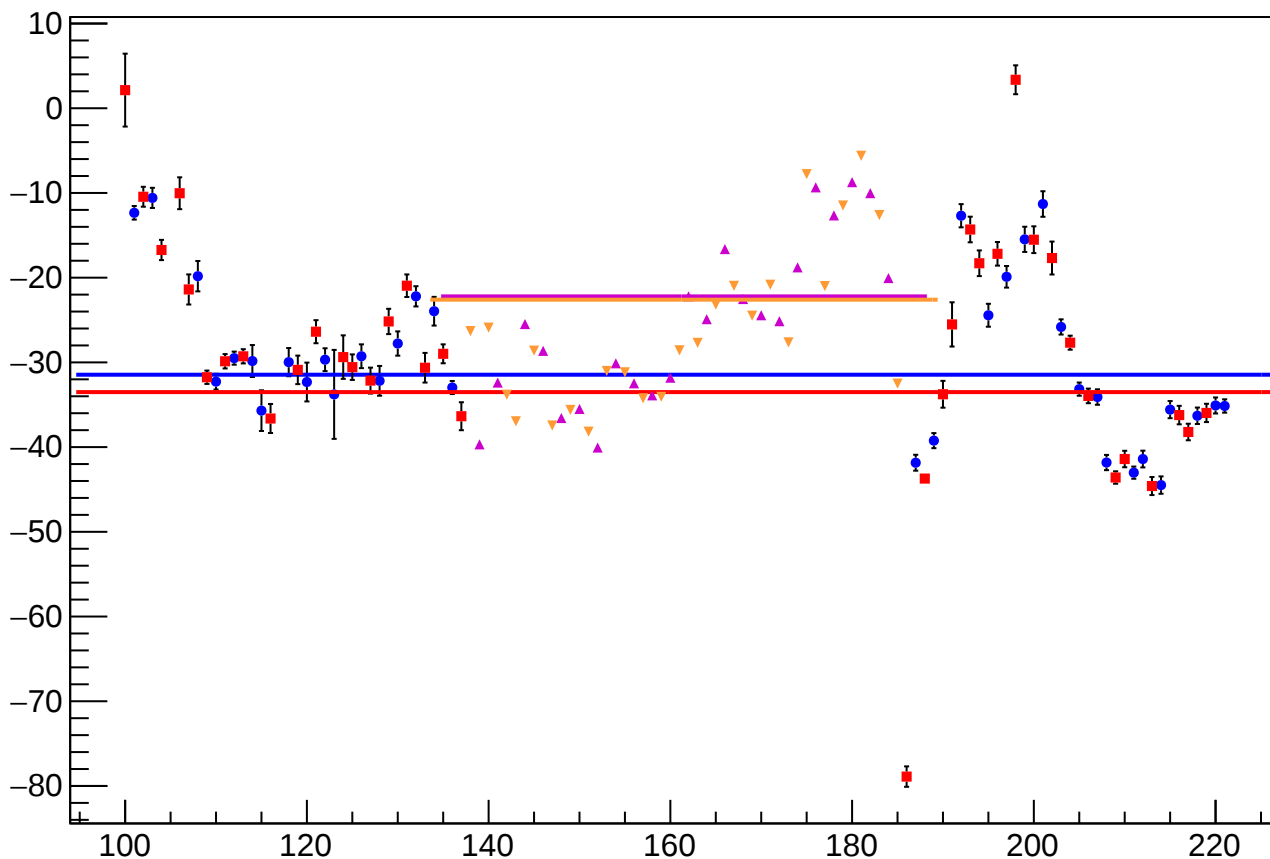
Right: 2.721 $\pm$ 0.110 χ^2 /NDF: 3398.4/71

In: 3.681 $\pm$ 0.053 χ^2 /NDF: 7308.5/57

Out: 3.597 $\pm$ 0.052 χ^2 /NDF: 9246.9/61

All: 3.638 $\pm$ 0.037 χ^2 /NDF: 16556.7/119

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.455 $\pm$ 0.182 χ^2 /NDF: 2598.7/34

Left Out: -22.598 $\pm$ 0.071 χ^2 /NDF:19933.4/24

Right Out: -33.507 $\pm$ 0.184 χ^2 /NDF: 4576.9/36

Left In: -22.209 $\pm$ 0.072 χ^2 /NDF:17627.4/22

Left: -22.406 $\pm$ 0.050 χ^2 /NDF: 37575.6/47

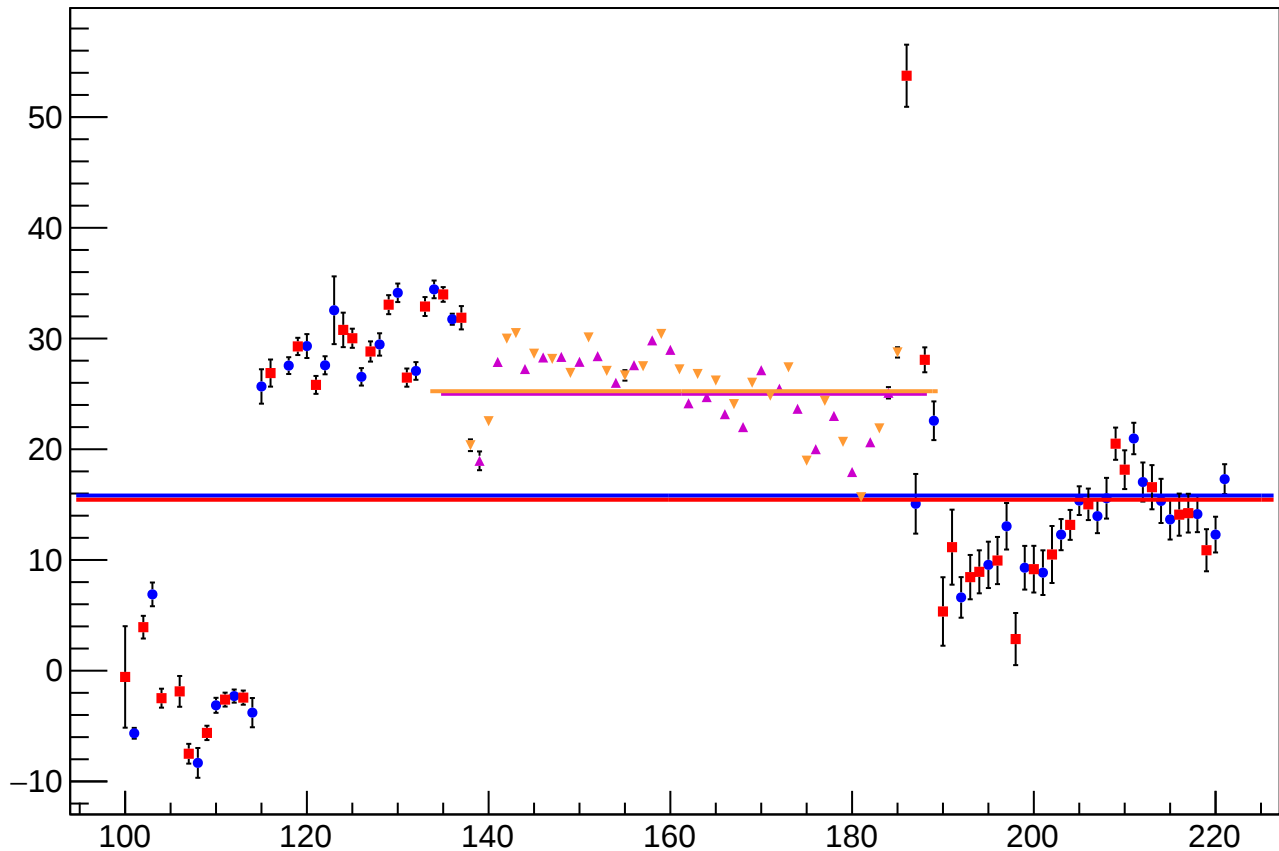
Right: -32.473 $\pm$ 0.130 χ^2 /NDF: 7238.3/71

In: -23.443 $\pm$ 0.067 χ^2 /NDF:22451.9/57

Out: -24.002 $\pm$ 0.066 χ^2 /NDF:27575.0/61

All: -23.725 $\pm$ 0.047 χ^2 /NDF: 50062.5/119

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.819 $\pm$ 0.173 χ^2 /NDF: 7648.2/34

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.440 $\pm$ 0.179 χ^2 /NDF: 7682.5/36

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF:2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

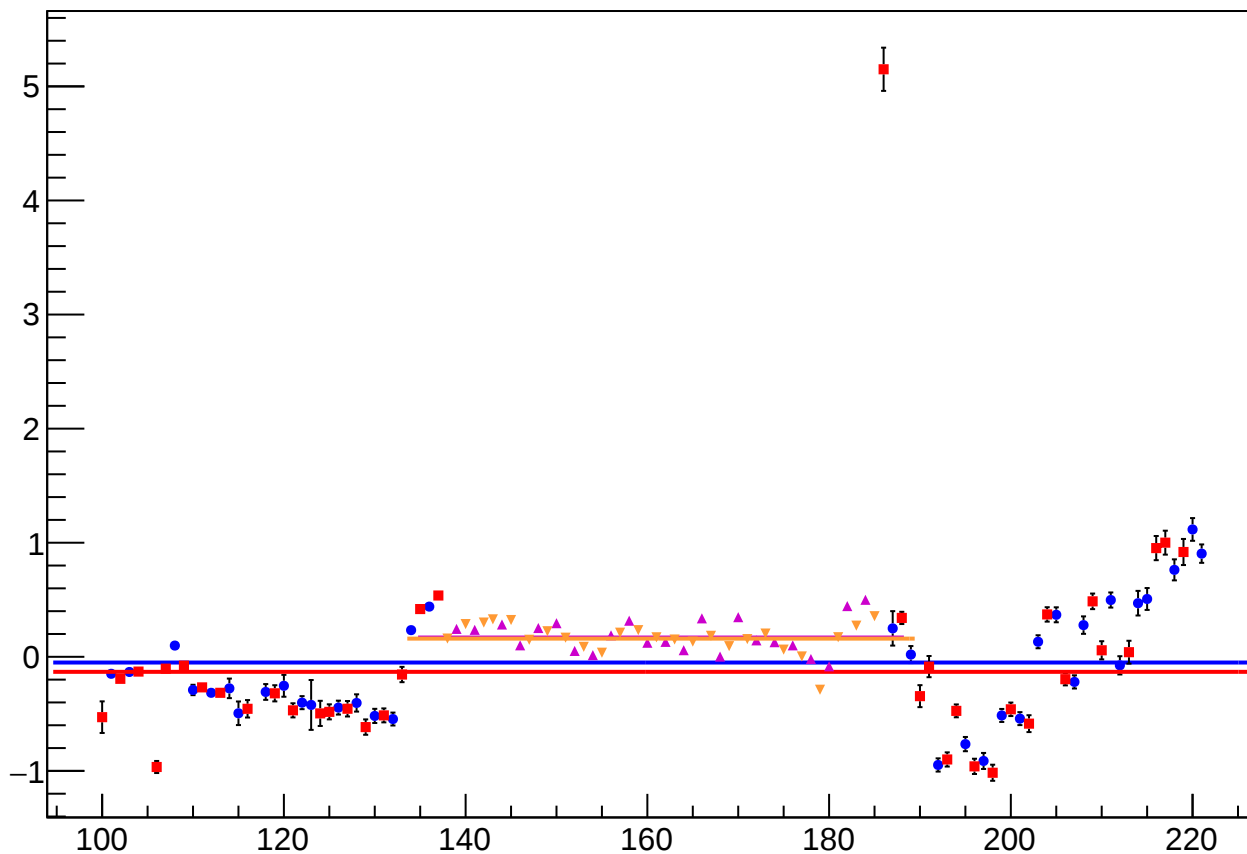
Right: 15.636 $\pm$ 0.125 χ^2 /NDF: 15333.0/71

In: 23.913 $\pm$ 0.060 χ^2 /NDF:12841.9/57

Out: 24.178 $\pm$ 0.059 χ^2 /NDF:14127.9/61

All: 24.047 $\pm$ 0.042 χ^2 /NDF: 26979.8/119

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.050 ± 0.009 χ^2/NDF : 2239.1/34

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.132 ± 0.009 χ^2/NDF : 3050.4/36

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

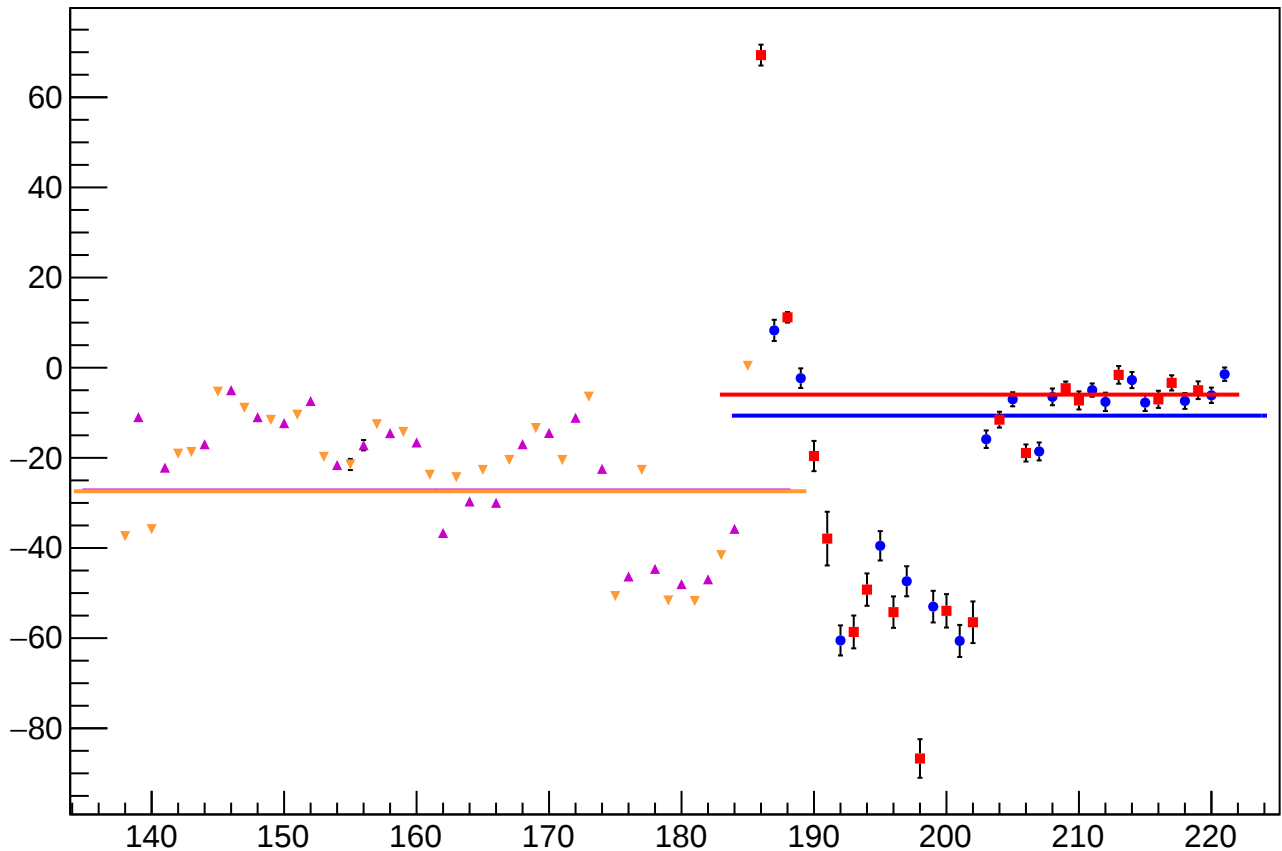
Right: -0.091 ± 0.006 χ^2/NDF : 5332.1/71

In: 0.147 ± 0.003 χ^2/NDF : 5216.2/57

Out: 0.132 ± 0.003 χ^2/NDF : 5886.4/61

All: 0.139 ± 0.002 χ^2/NDF : 11118.2/119

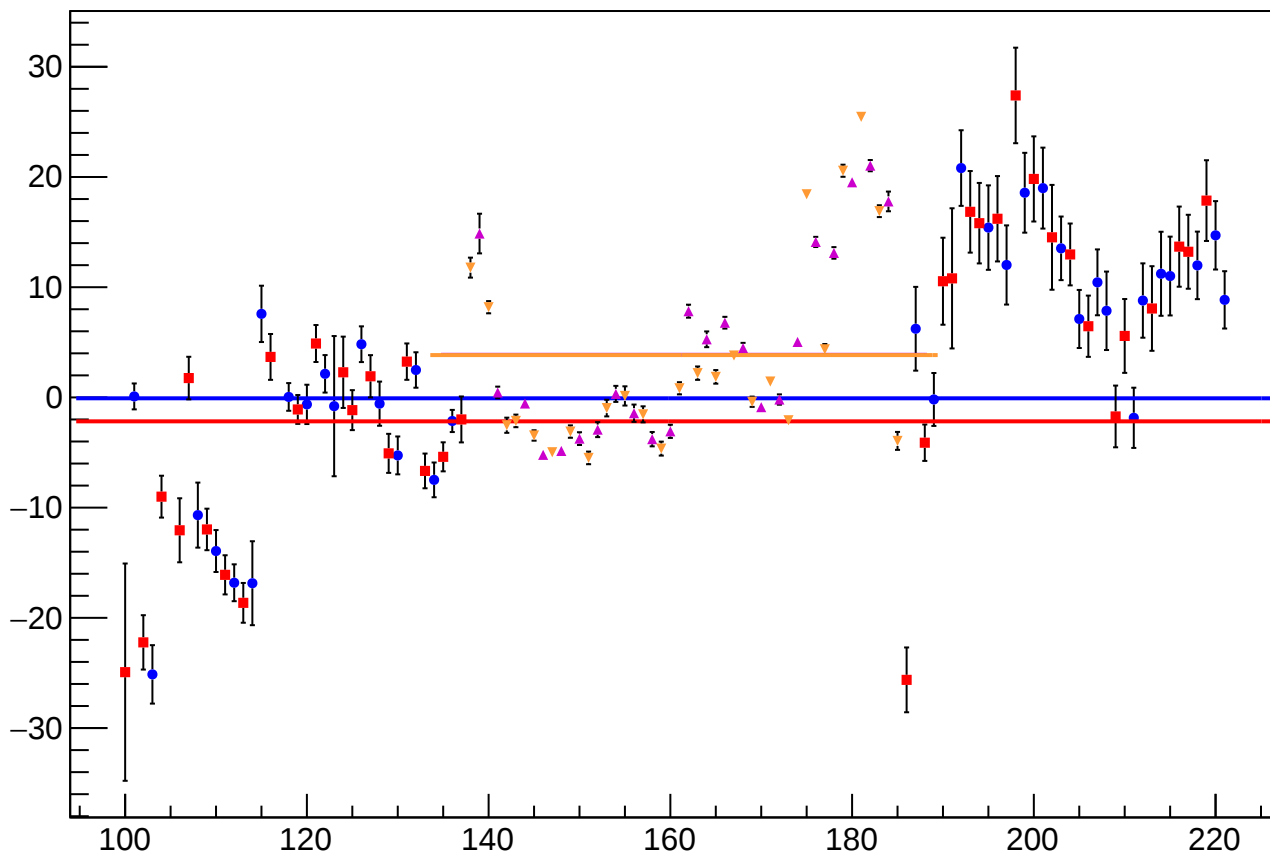
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.635 ± 0.473 $\chi^2/\text{NDF}: 966.9/17$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.966 ± 0.507 $\chi^2/\text{NDF}: 2573.0/17$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -8.459 ± 0.346 $\chi^2/\text{NDF}: 3585.3/35$
 In: -25.918 ± 0.134 $\chi^2/\text{NDF}: 13405.4/40$
 Out: -25.950 ± 0.132 $\chi^2/\text{NDF}: 19093.2/42$
 All: -25.934 ± 0.094 $\chi^2/\text{NDF}: 32498.6/83$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.080 ± 0.360 χ^2/NDF : 576.6/34

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.171 ± 0.372 χ^2/NDF : 697.7/36

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

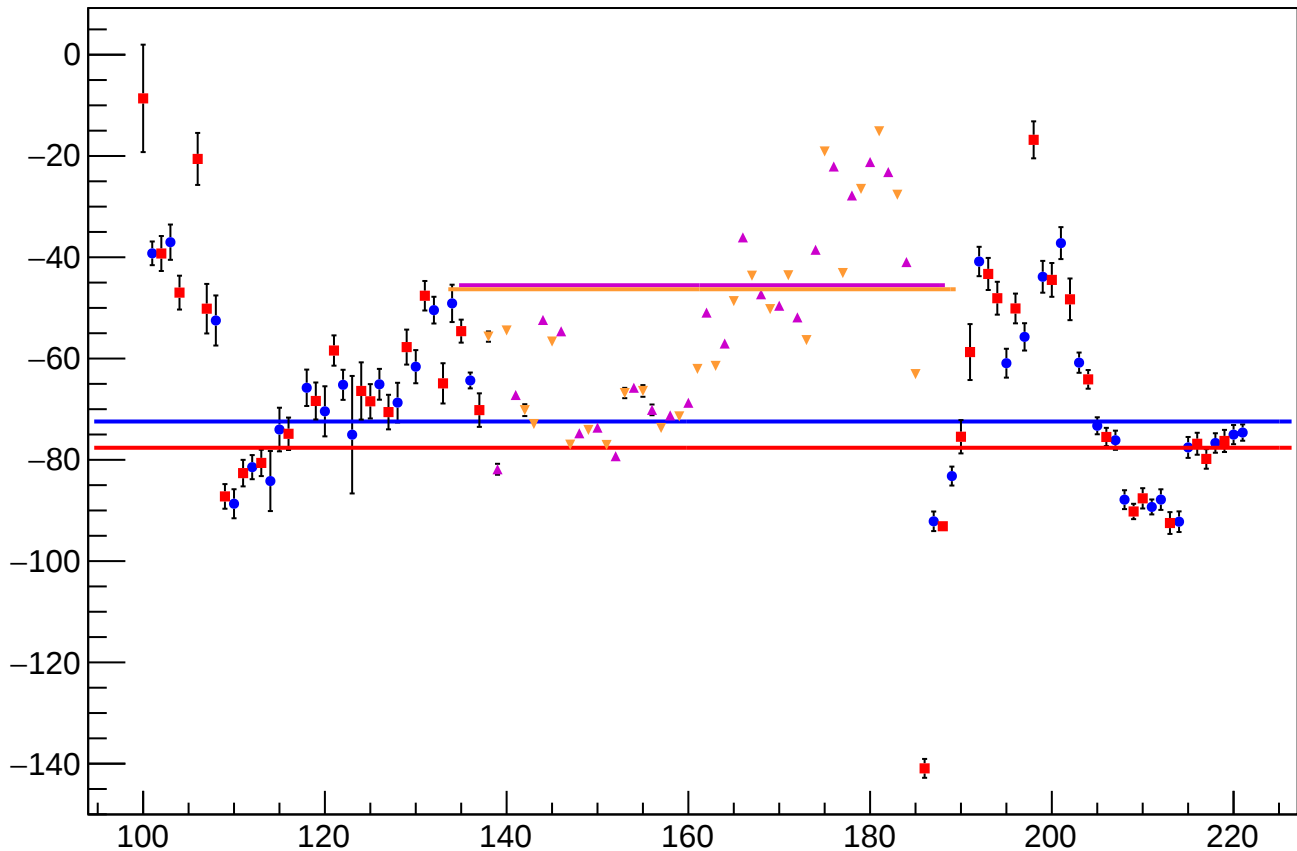
Right: -1.091 ± 0.259 χ^2/NDF : 1290.6/71

In: 3.523 ± 0.106 χ^2/NDF : 6110.2/57

Out: 3.365 ± 0.105 χ^2/NDF : 7877.0/61

All: 3.443 ± 0.075 χ^2/NDF : 13988.2/119

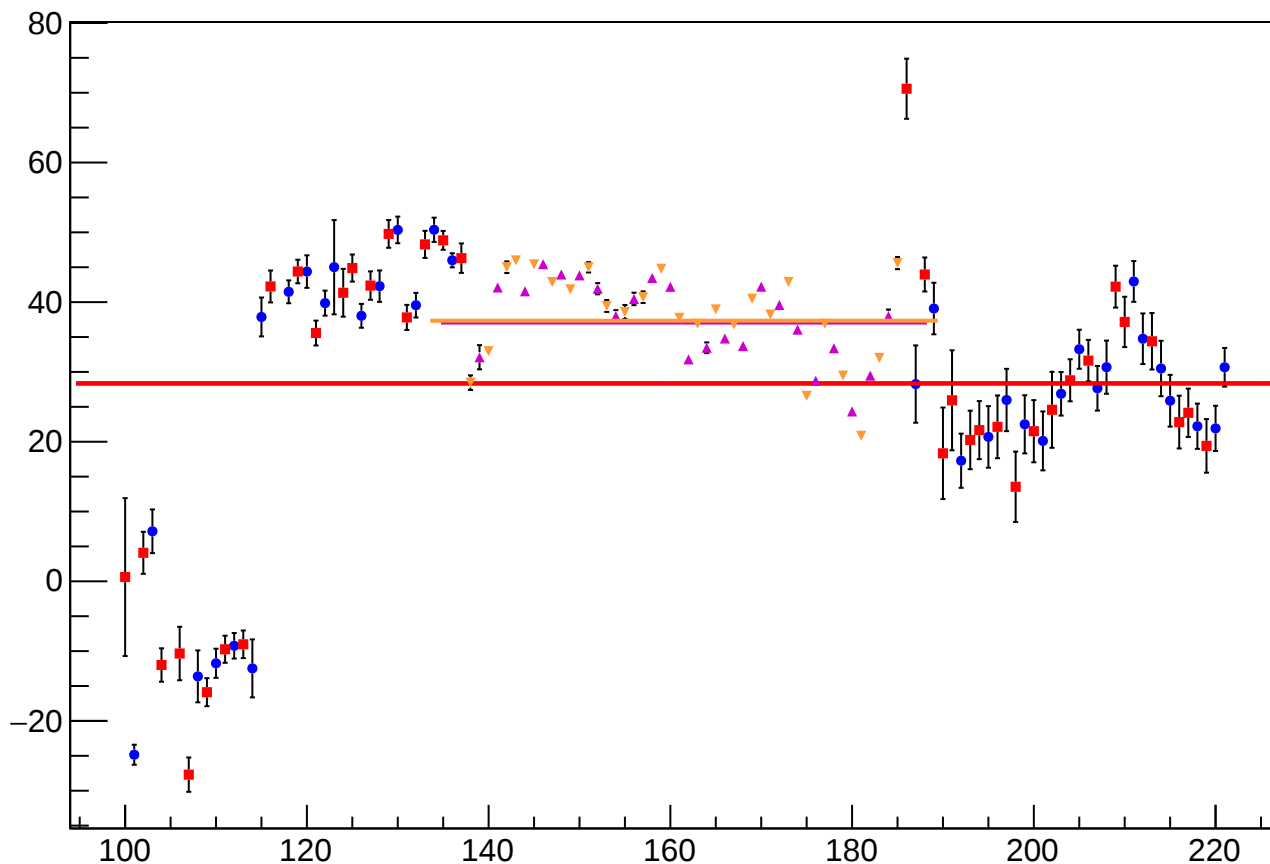
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.431 ± 0.401 χ^2/NDF : 1456.5/34
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -77.617 ± 0.407 χ^2/NDF : 3100.7/36
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -74.985 ± 0.285 χ^2/NDF : 4639.7/71
 In: -48.441 ± 0.132 χ^2/NDF : 23004.1/57
 Out: -49.546 ± 0.131 χ^2/NDF : 28546.5/61
 All: -48.999 ± 0.093 χ^2/NDF : 51586.1/119

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.363 $\pm$ 0.403 χ^2 /NDF: 3377.4/34

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.340 $\pm$ 0.423 χ^2 /NDF: 3234.5/36

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

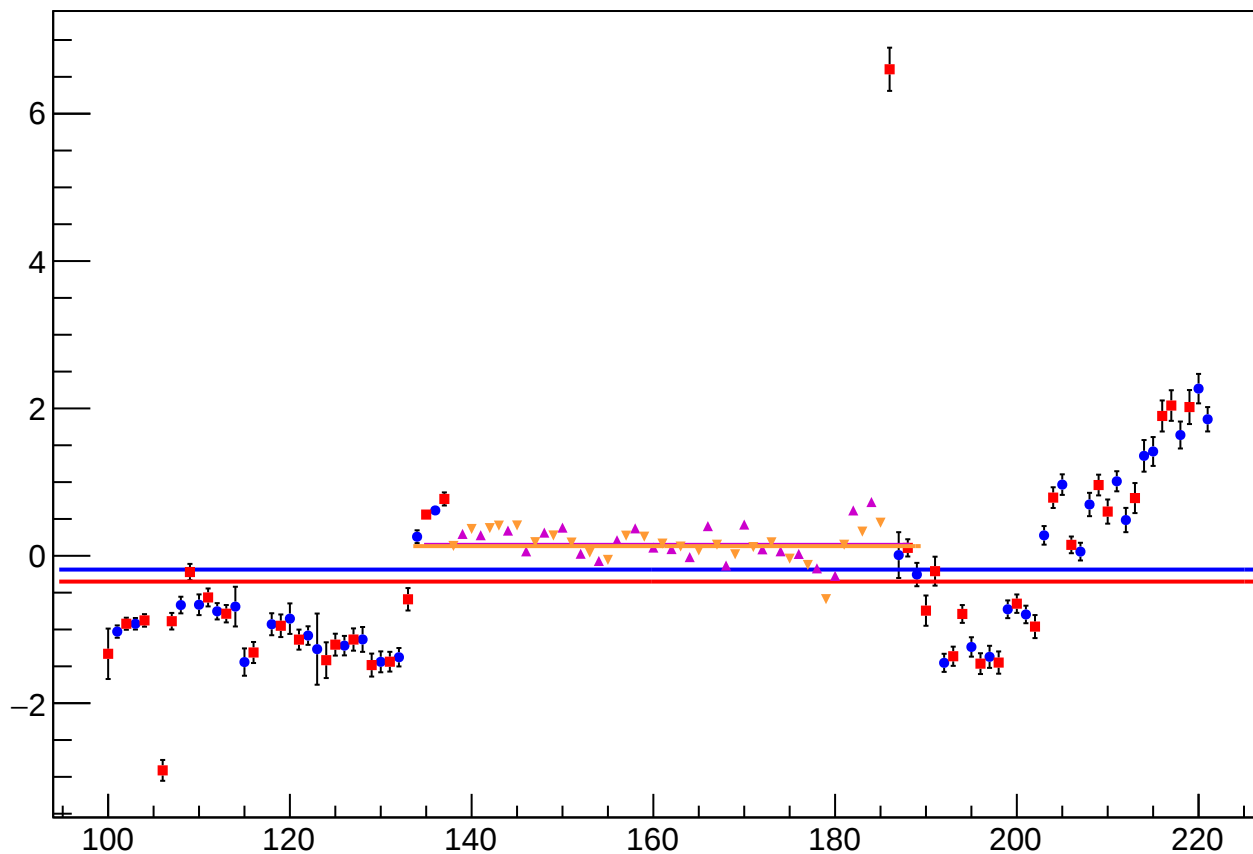
Right: 28.352 $\pm$ 0.292 χ^2 /NDF: 6611.8/71

In: 36.309 $\pm$ 0.120 χ^2 /NDF:6199.9/57

Out: 36.639 $\pm$ 0.118 χ^2 /NDF:6801.3/61

All: 36.476 $\pm$ 0.084 χ^2 /NDF: 13005.2/119

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.187 ± 0.020 χ^2/NDF : 2051.0/34

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.350 ± 0.021 χ^2/NDF : 2579.0/36

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

Right: -0.266 ± 0.015 χ^2/NDF : 4661.1/71

In: 0.124 ± 0.006 χ^2/NDF : 4106.5/57

Out: 0.099 ± 0.005 χ^2/NDF : 4495.6/61

All: 0.111 ± 0.004 χ^2/NDF : 8612.5/119

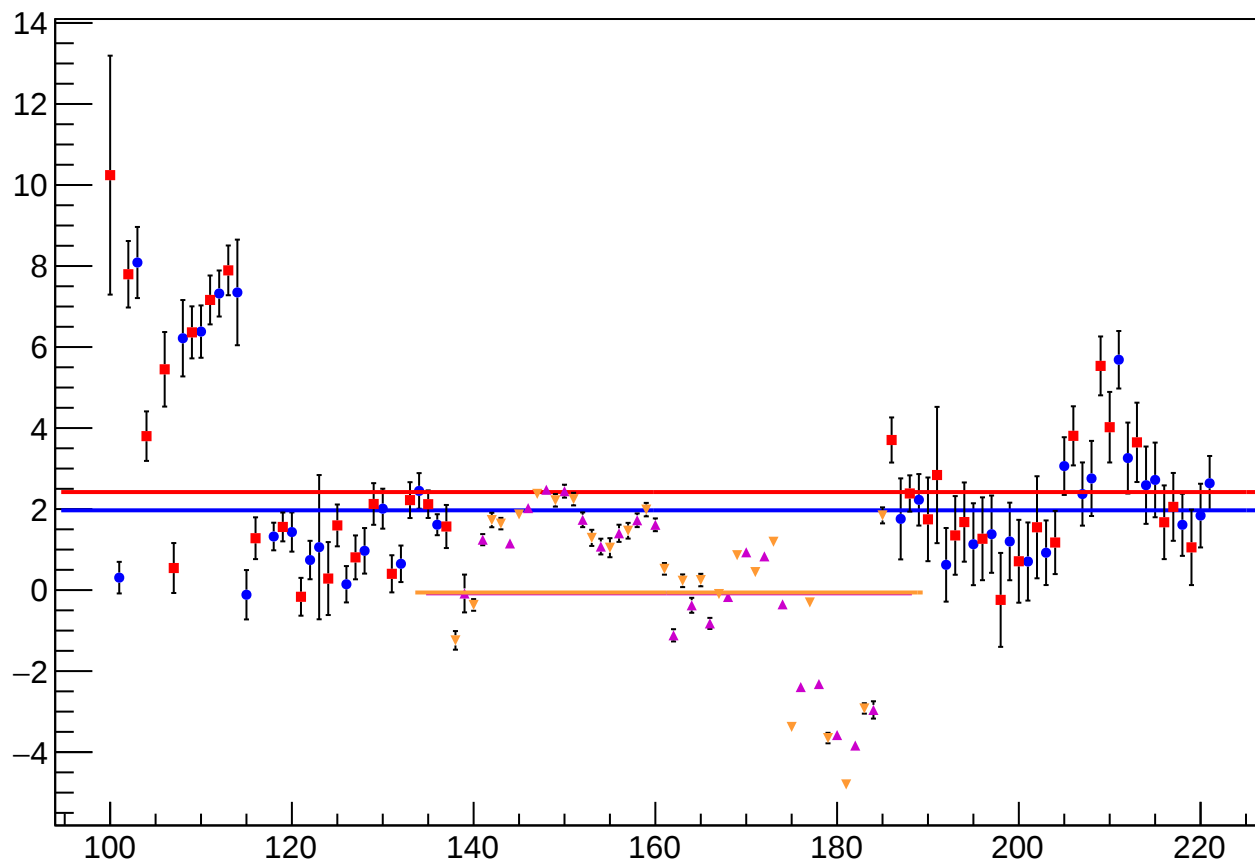
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.175 ± 0.123 χ^2/NDF : 568.4/17
 Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24
 Right Out: 1.033 ± 0.130 χ^2/NDF : 1488.2/17
 Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47
 Right: 1.634 ± 0.089 χ^2/NDF : 2097.3/35
 In: 7.335 ± 0.034 χ^2/NDF : 10808.3/40
 Out: 7.317 ± 0.033 χ^2/NDF : 15722.6/42
 All: 7.326 ± 0.024 χ^2/NDF : 26531.1/83

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.969 ± 0.100 $\chi^2/\text{NDF}: 337.0/34$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.420 ± 0.104 $\chi^2/\text{NDF}: 385.6/36$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

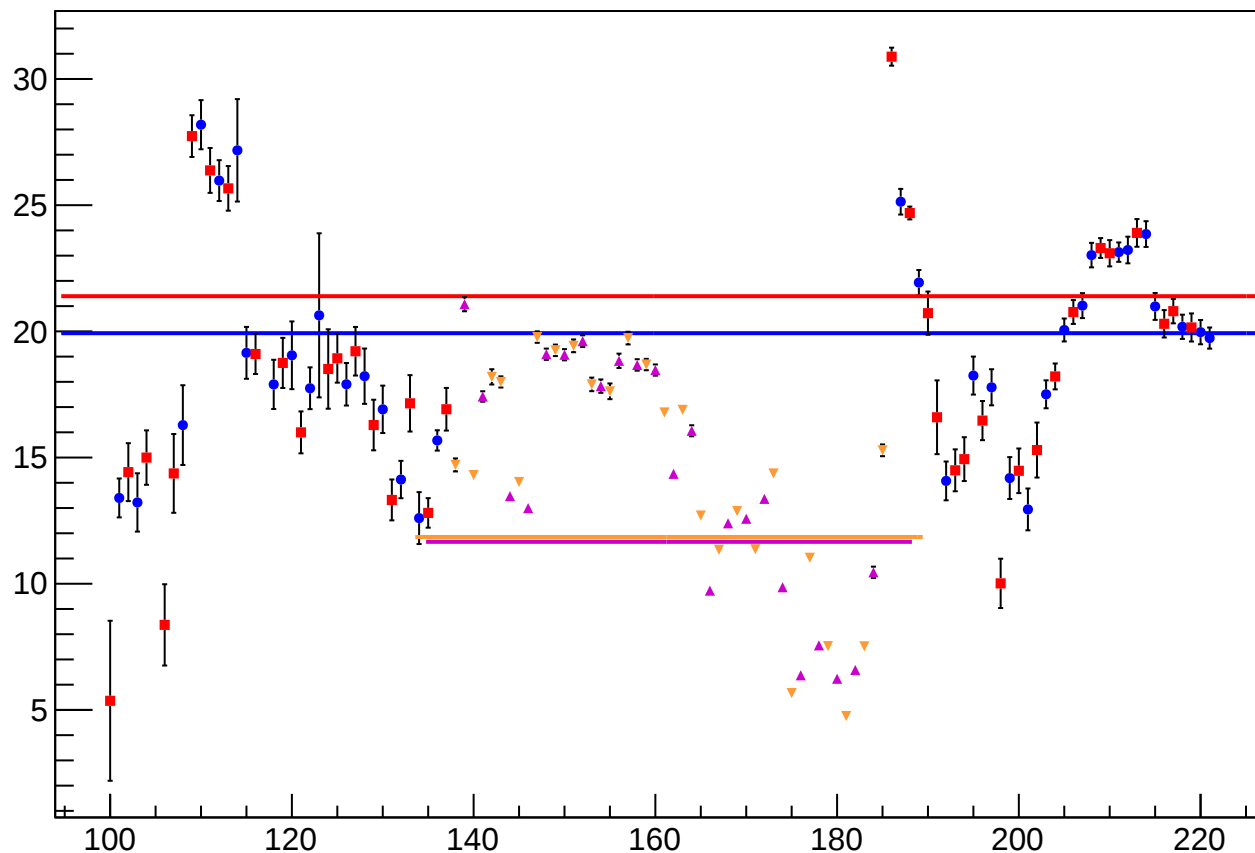
Right: 2.187 ± 0.072 $\chi^2/\text{NDF}: 732.4/71$

In: 0.070 ± 0.027 $\chi^2/\text{NDF}: 5702.0/57$

Out: 0.106 ± 0.027 $\chi^2/\text{NDF}: 6986.9/61$

All: 0.088 ± 0.019 $\chi^2/\text{NDF}: 12689.9/119$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.928 $\pm$ 0.107 χ^2 /NDF: 1054.8/34

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.393 $\pm$ 0.108 χ^2 /NDF: 2138.2/36

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

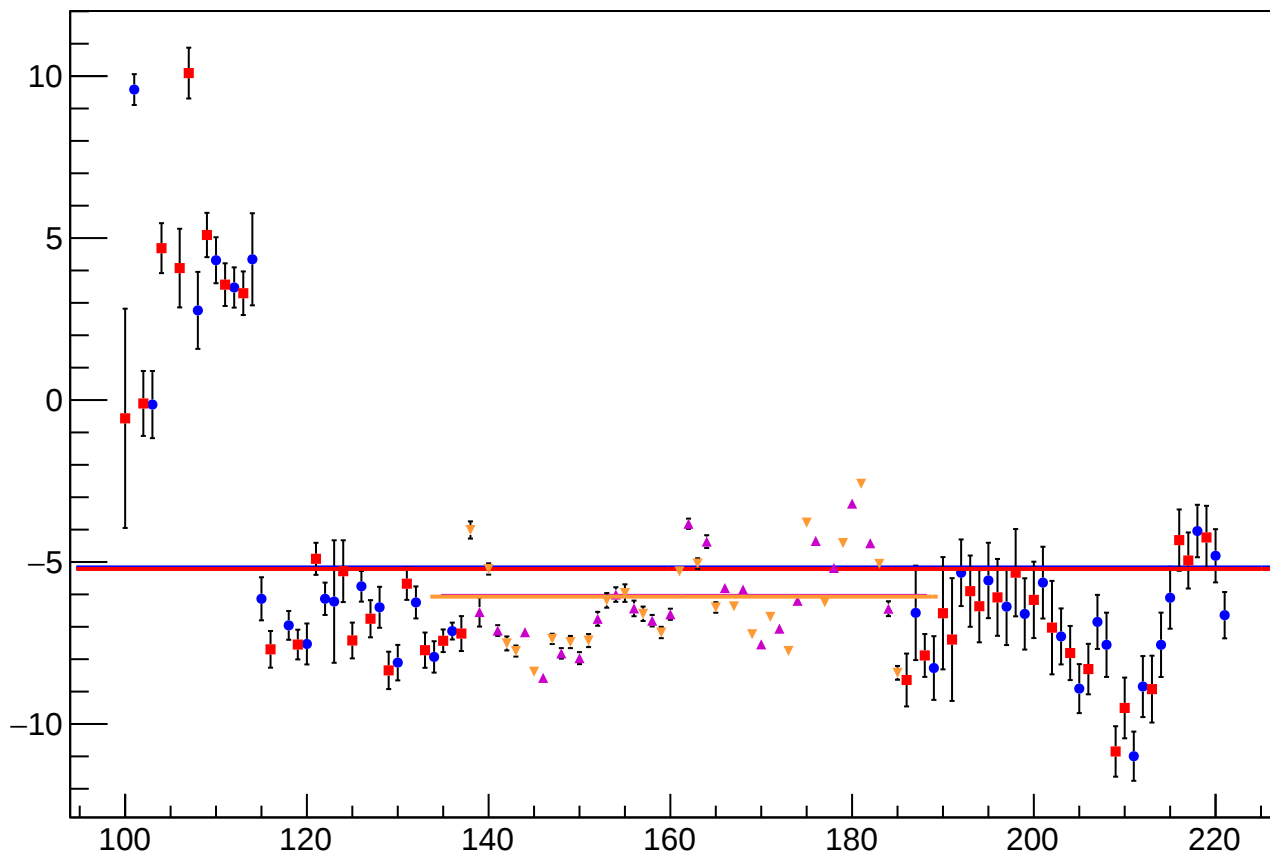
Right: 20.658 $\pm$ 0.076 χ^2 /NDF: 3286.0/71

In: 12.463 $\pm$ 0.033 χ^2 /NDF:23126.8/57

Out: 12.750 $\pm$ 0.033 χ^2 /NDF:28403.4/61

All: 12.608 $\pm$ 0.023 χ^2 /NDF: 51567.4/119

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.167 ± 0.112 χ^2/NDF : 1750.8/34

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -5.214 ± 0.118 χ^2/NDF : 1524.5/36

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

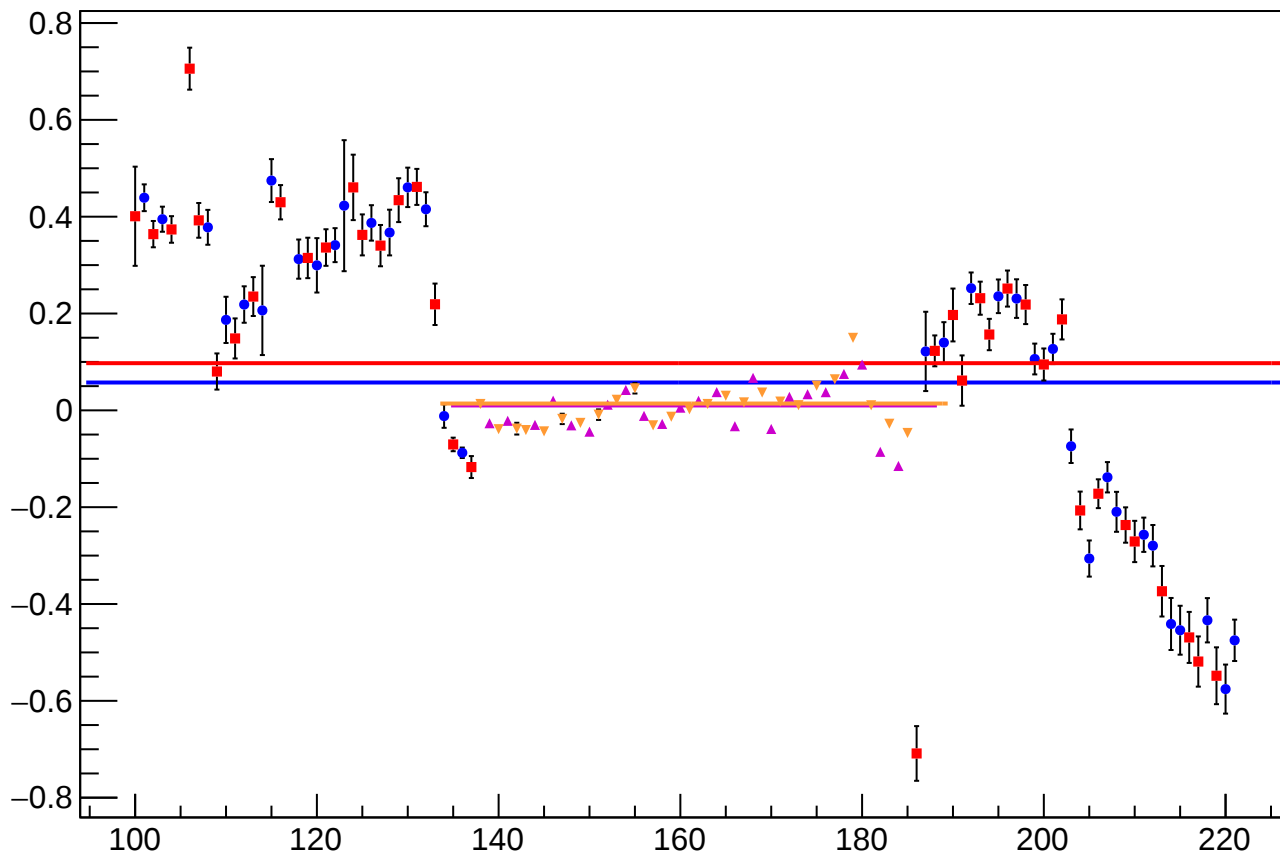
Right: -5.190 ± 0.081 χ^2/NDF : 3275.4/71

In: -5.980 ± 0.031 χ^2/NDF : 4101.3/57

Out: -6.013 ± 0.030 χ^2/NDF : 4245.3/61

All: -5.997 ± 0.021 χ^2/NDF : 8347.3/119

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.058 ± 0.006 χ^2/NDF : 2240.8/34

Left Out: 0.014 ± 0.001 χ^2/NDF : 956.2/24

Right Out: 0.097 ± 0.006 χ^2/NDF : 2149.9/36

Left In: 0.010 ± 0.001 χ^2/NDF : 1216.1/22

Left: 0.012 ± 0.001 χ^2/NDF : 2176.2/47

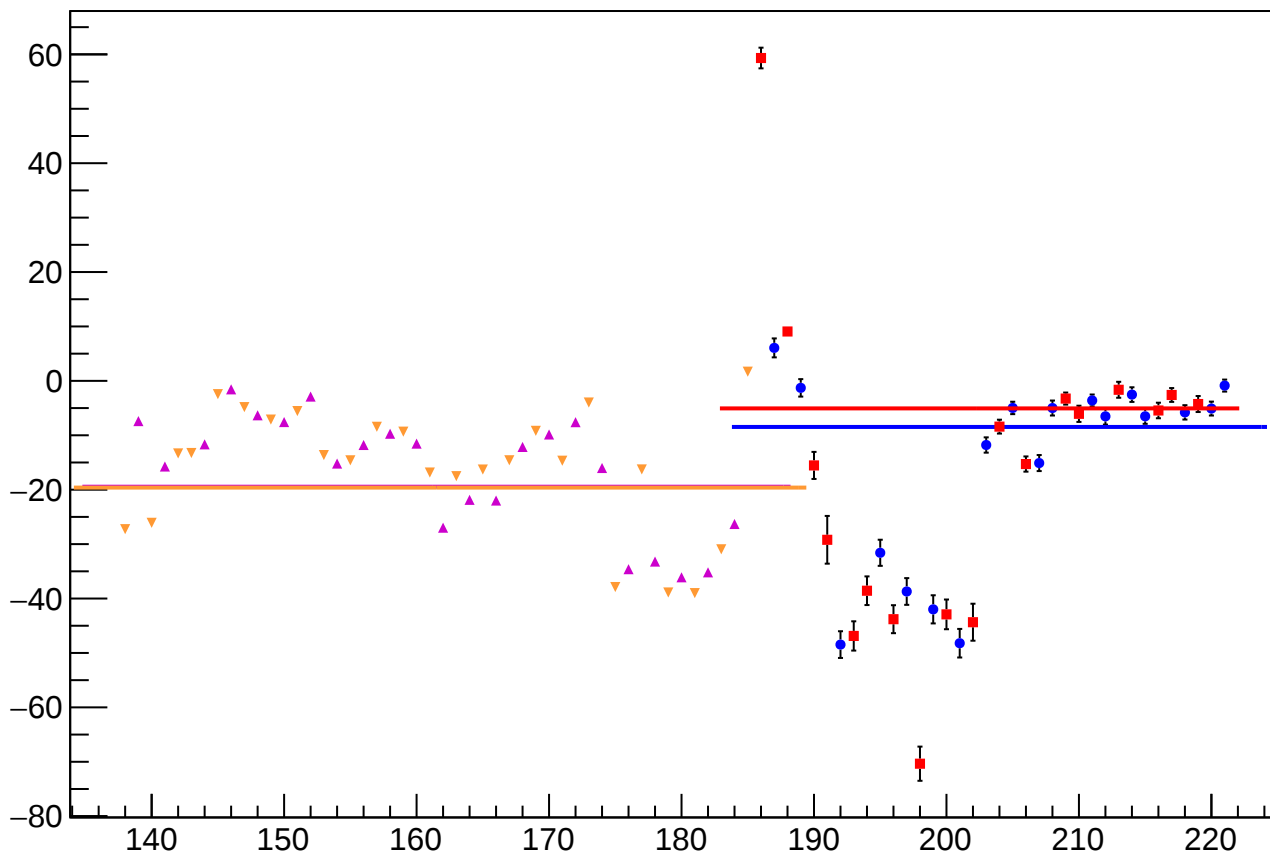
Right: 0.077 ± 0.004 χ^2/NDF : 4414.9/71

In: 0.013 ± 0.001 χ^2/NDF : 3523.8/57

Out: 0.019 ± 0.001 χ^2/NDF : 3298.3/61

All: 0.016 ± 0.001 χ^2/NDF : 6830.4/119

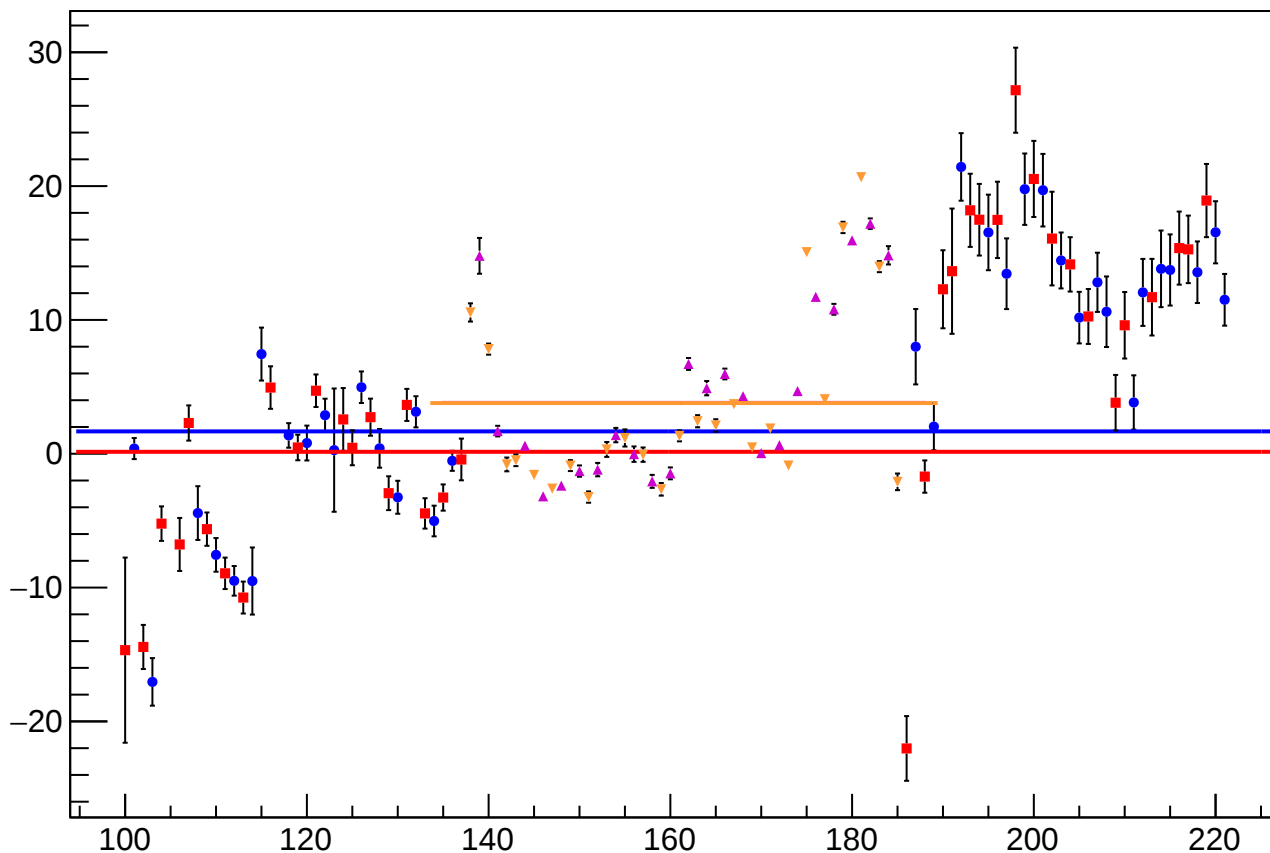
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.467 ± 0.351 $\chi^2/\text{NDF}: 1139.7/17$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.061 ± 0.376 $\chi^2/\text{NDF}: 2935.2/17$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$
 Right: -6.884 ± 0.256 $\chi^2/\text{NDF}: 4118.8/35$
 In: -18.545 ± 0.101 $\chi^2/\text{NDF}: 14323.6/40$
 Out: -18.593 ± 0.100 $\chi^2/\text{NDF}: 20088.3/42$
 All: -18.569 ± 0.071 $\chi^2/\text{NDF}: 34412.0/83$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.671 ± 0.258 $\chi^2/\text{NDF}: 826.2/34$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: 0.146 ± 0.267 $\chi^2/\text{NDF}: 949.8/36$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

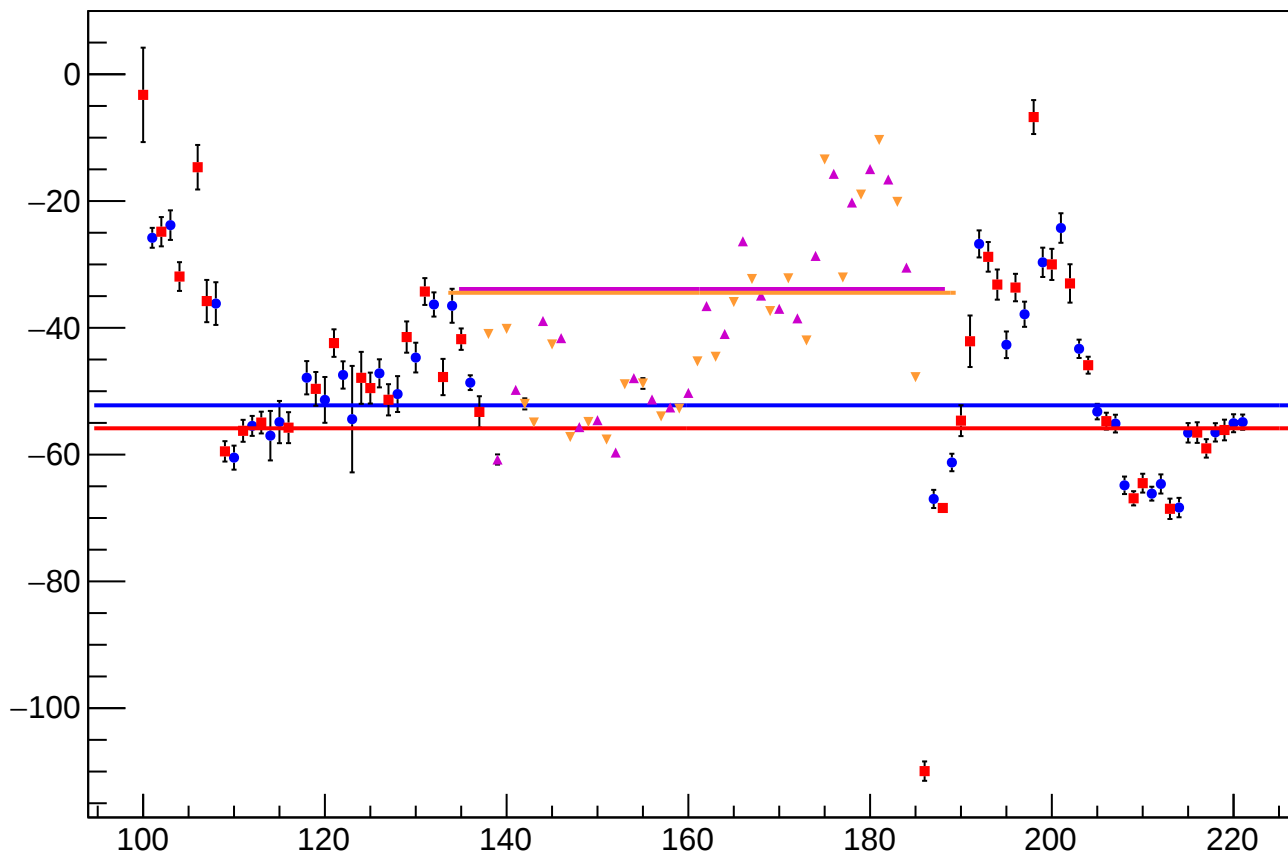
Right: 0.932 ± 0.186 $\chi^2/\text{NDF}: 1792.9/71$

In: 3.597 ± 0.080 $\chi^2/\text{NDF}: 6404.5/57$

Out: 3.473 ± 0.078 $\chi^2/\text{NDF}: 8270.6/61$

All: 3.534 ± 0.056 $\chi^2/\text{NDF}: 14676.3/119$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.228 $\pm$ 0.293 χ^2 /NDF: 1713.0/34

Left Out: -34.471 $\pm$ 0.104 χ^2 /NDF:20196.3/24

Right Out: -55.850 $\pm$ 0.297 χ^2 /NDF: 3485.7/36

Left In: -33.875 $\pm$ 0.105 χ^2 /NDF:17638.7/22

Left: -34.177 $\pm$ 0.074 χ^2 /NDF: 37851.2/47

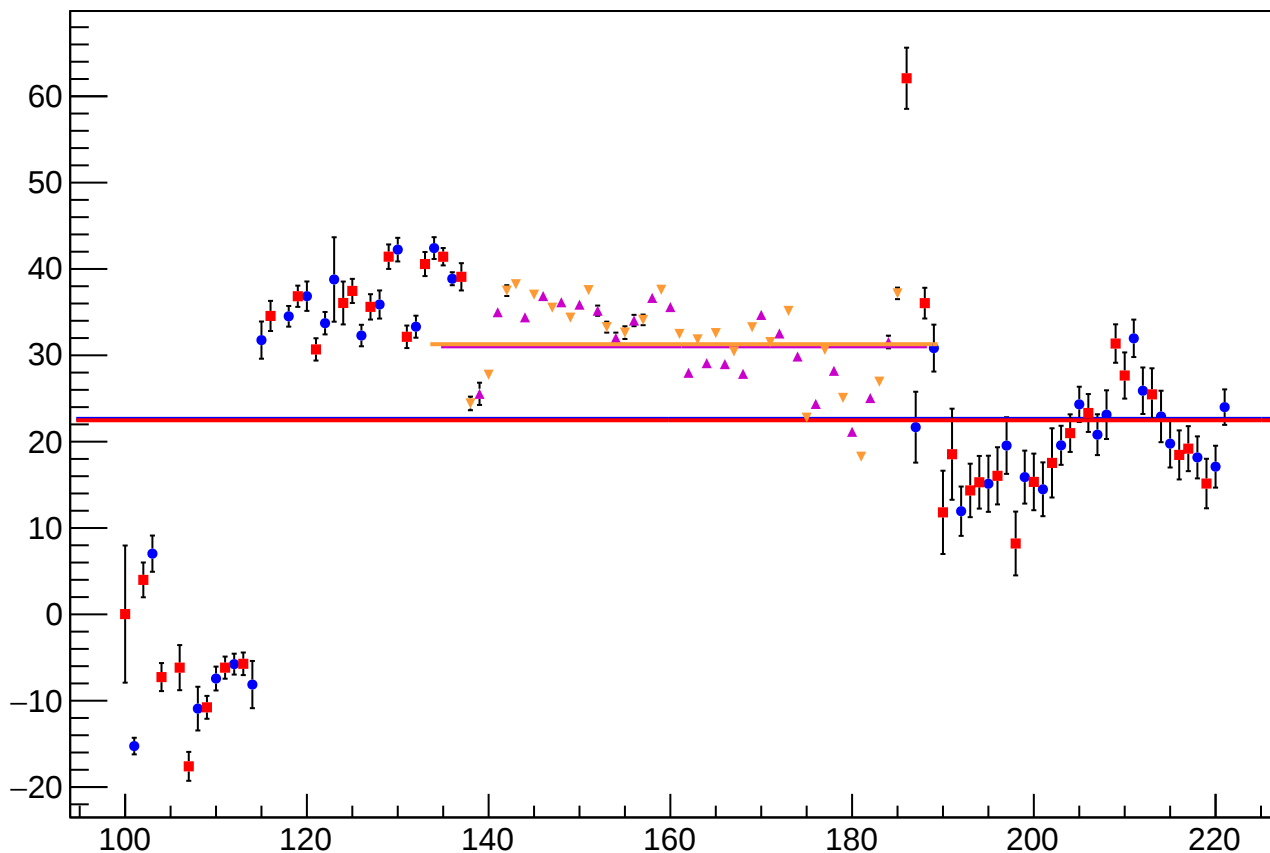
Right: -54.012 $\pm$ 0.208 χ^2 /NDF: 5274.1/71

In: -35.978 $\pm$ 0.099 χ^2 /NDF:22834.6/57

Out: -36.804 $\pm$ 0.098 χ^2 /NDF:28297.5/61

All: -36.395 $\pm$ 0.070 χ^2 /NDF: 51167.1/119

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.641 $\pm$ 0.290 χ^2 /NDF: 4392.2/34

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.478 $\pm$ 0.303 χ^2 /NDF: 4288.6/36

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

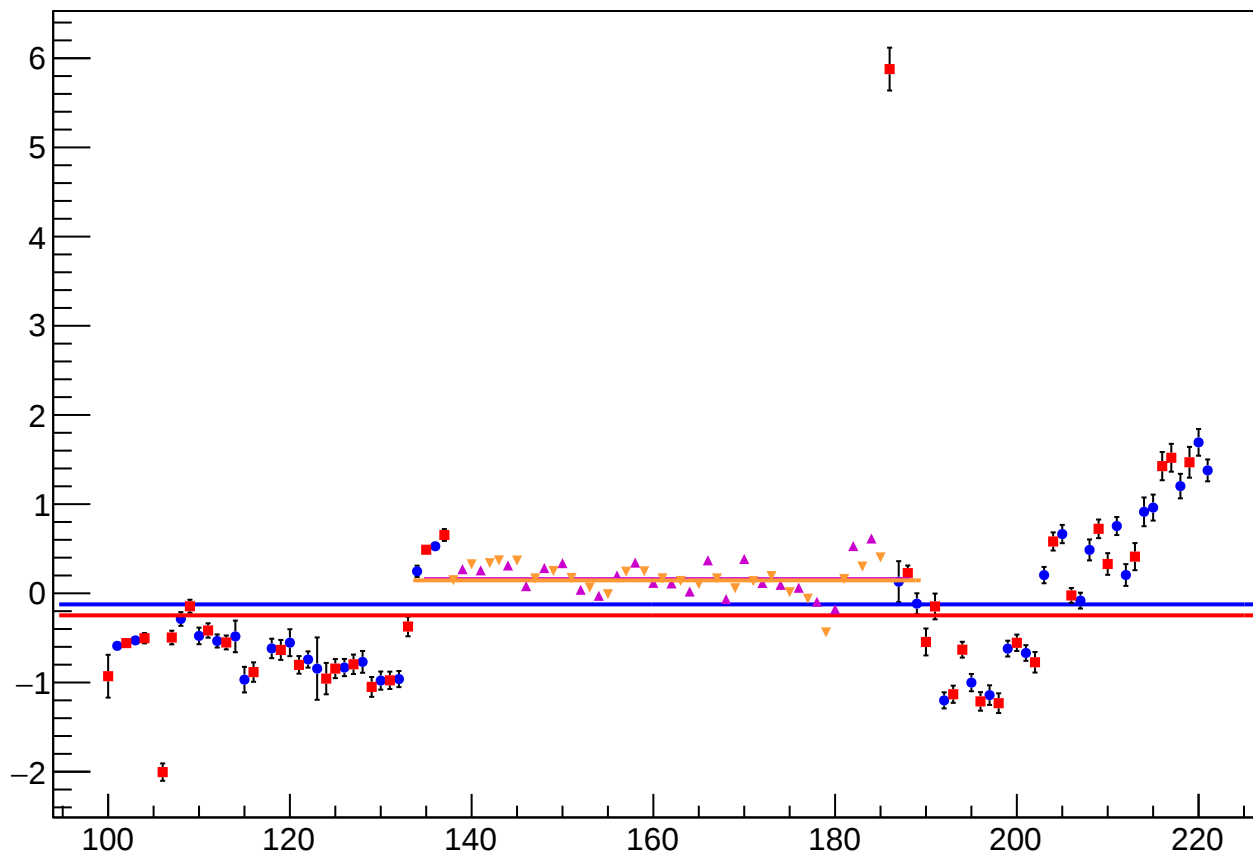
Right: 22.563 $\pm$ 0.210 χ^2 /NDF: 8681.0/71

In: 30.238 $\pm$ 0.090 χ^2 /NDF:7630.4/57

Out: 30.537 $\pm$ 0.088 χ^2 /NDF:8407.4/61

All: 30.390 $\pm$ 0.063 χ^2 /NDF: 16043.5/119

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.124 ± 0.015 χ^2/NDF : 2054.5/34

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.247 ± 0.015 χ^2/NDF : 2718.8/36

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

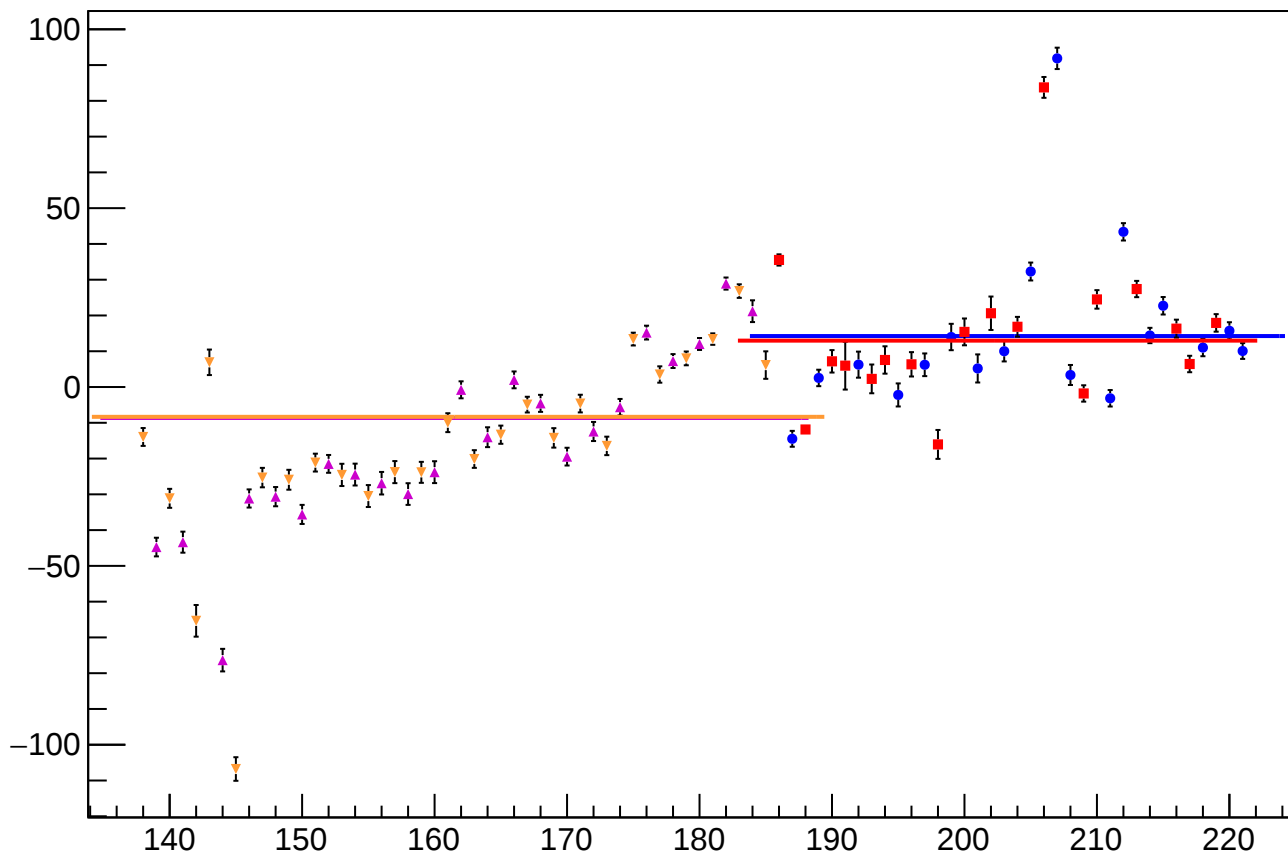
Right: -0.184 ± 0.010 χ^2/NDF : 4807.6/71

In: 0.136 ± 0.004 χ^2/NDF : 4406.9/57

Out: 0.117 ± 0.004 χ^2/NDF : 4928.6/61

All: 0.126 ± 0.003 χ^2/NDF : 9347.1/119

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.247 $\pm$ 0.618 χ^2 /NDF: 1198.9/17

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.968 $\pm$ 0.590 χ^2 /NDF: 1388.6/17

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

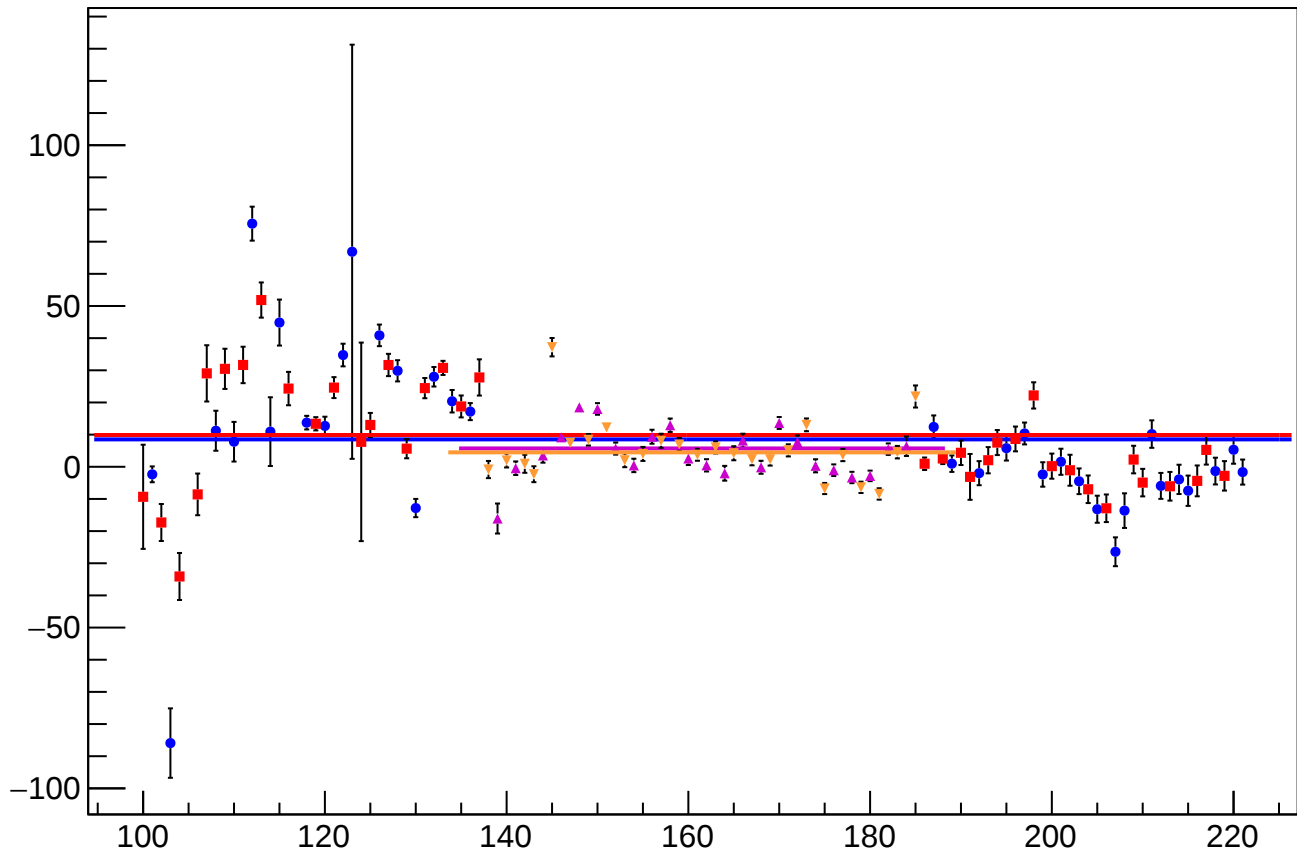
Right: 13.578 $\pm$ 0.427 χ^2 /NDF: 2589.7/35

In: 0.562 $\pm$ 0.392 χ^2 /NDF: 4242.9/40

Out: 0.563 $\pm$ 0.381 χ^2 /NDF: 4373.9/42

All: 0.563 $\pm$ 0.273 χ^2 /NDF: 8616.9/83

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.519 ± 0.629 χ^2/NDF : 791.9/34

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 9.883 ± 0.609 χ^2/NDF : 517.9/36

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

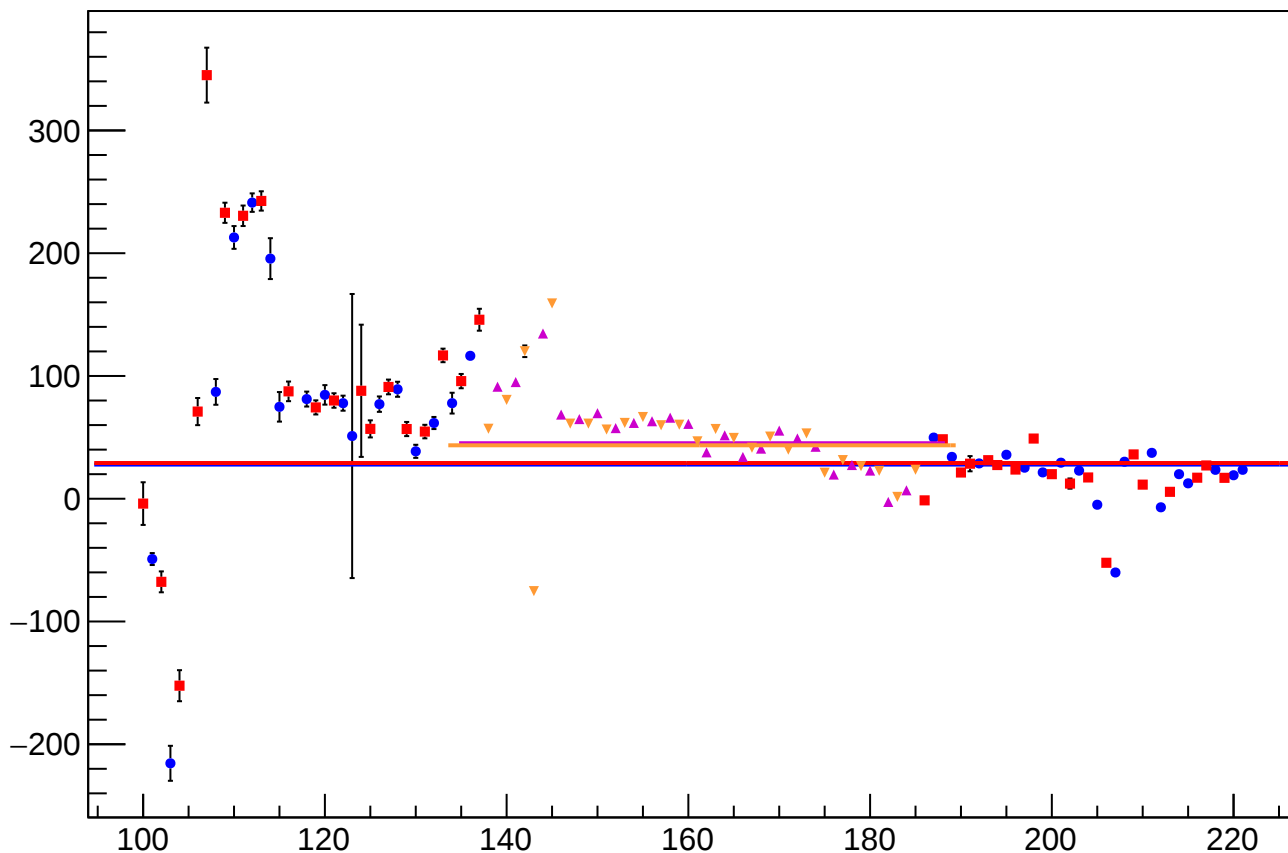
Right: 9.223 ± 0.437 χ^2/NDF : 1312.3/71

In: 6.527 ± 0.340 χ^2/NDF : 1130.2/57

Out: 6.067 ± 0.330 χ^2/NDF : 945.3/61

All: 6.290 ± 0.237 χ^2/NDF : 2076.4/119

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.825 ± 0.566 χ^2/NDF : 4365.4/34

Left Out: 43.524 ± 0.498 χ^2/NDF : 3830.7/24

Right Out: 29.097 ± 0.514 χ^2/NDF : 5487.3/36

Left In: 45.211 ± 0.504 χ^2/NDF : 3048.5/22

Left: 44.358 ± 0.354 χ^2/NDF : 6884.8/47

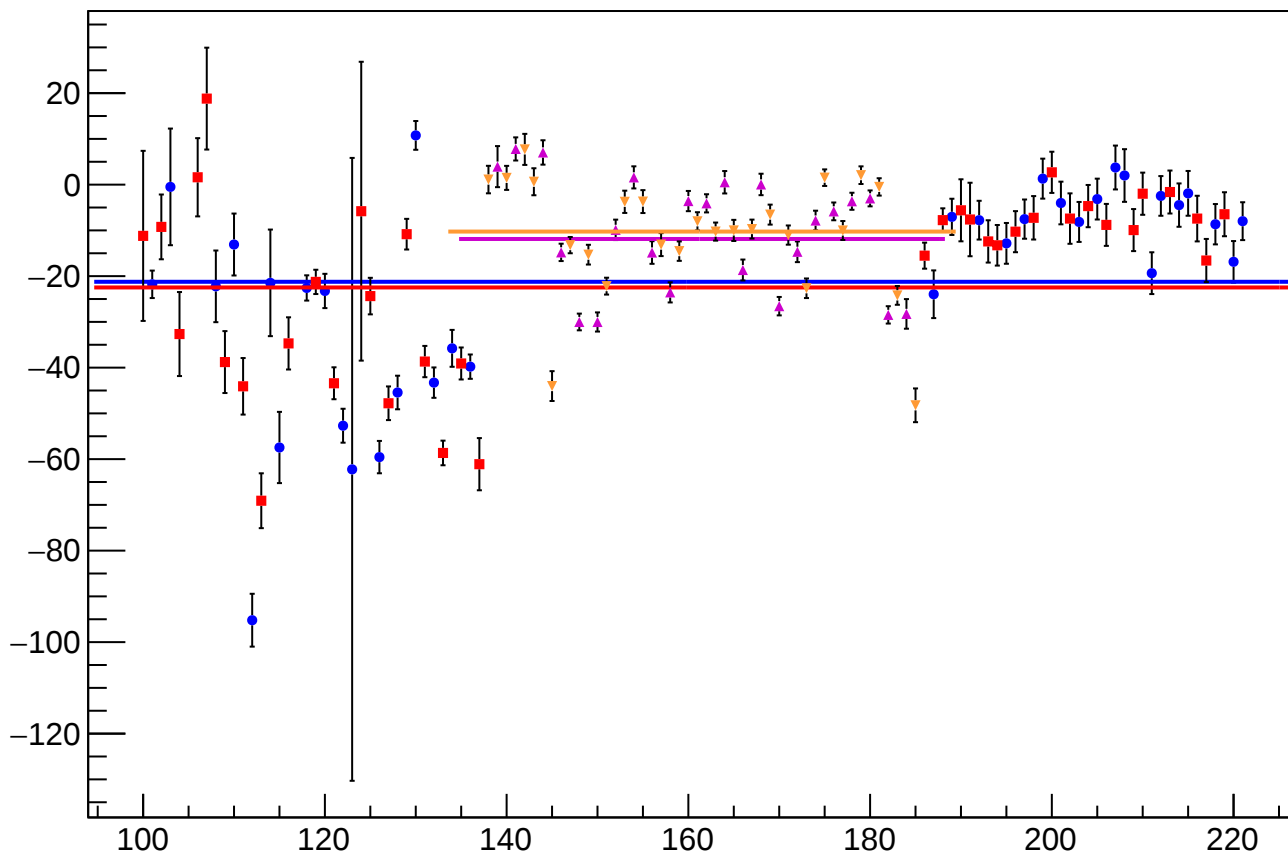
Right: 28.522 ± 0.381 χ^2/NDF : 9855.4/71

In: 37.522 ± 0.377 χ^2/NDF : 7939.6/57

Out: 36.537 ± 0.358 χ^2/NDF : 9723.8/61

All: 37.004 ± 0.259 χ^2/NDF : 17666.9/119

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.233±/0.723 χ^2/NDF : 845.3/34

Left Out: -10.257±/0.444 χ^2/NDF :552.4/24

Right Out: -22.474±/0.726 χ^2/NDF : 683.6/36

Left In: -11.877±/0.456 χ^2/NDF :666.2/22

Left: -11.046±/0.318 χ^2/NDF : 1225.1/47

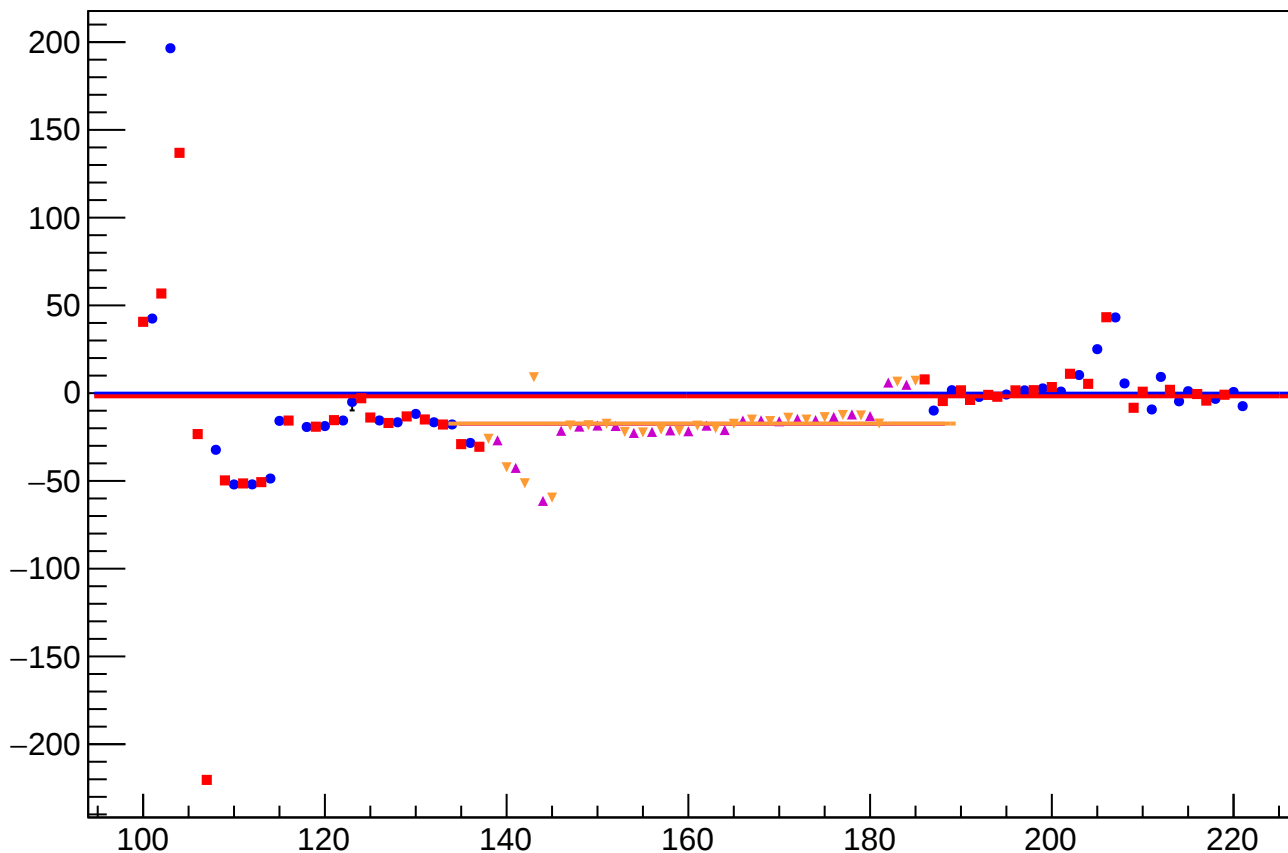
Right: -21.851±/0.512 χ^2/NDF : 1530.4/71

In: -14.542±/0.386 χ^2/NDF :1631.4/57

Out: -13.585±/0.379 χ^2/NDF :1442.0/61

All: -14.055±/0.270 χ^2/NDF : 3076.6/119

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.285 ± 0.035 χ^2/NDF : 679321.9/34

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.804 ± 0.034 χ^2/NDF : 672422.7/36

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

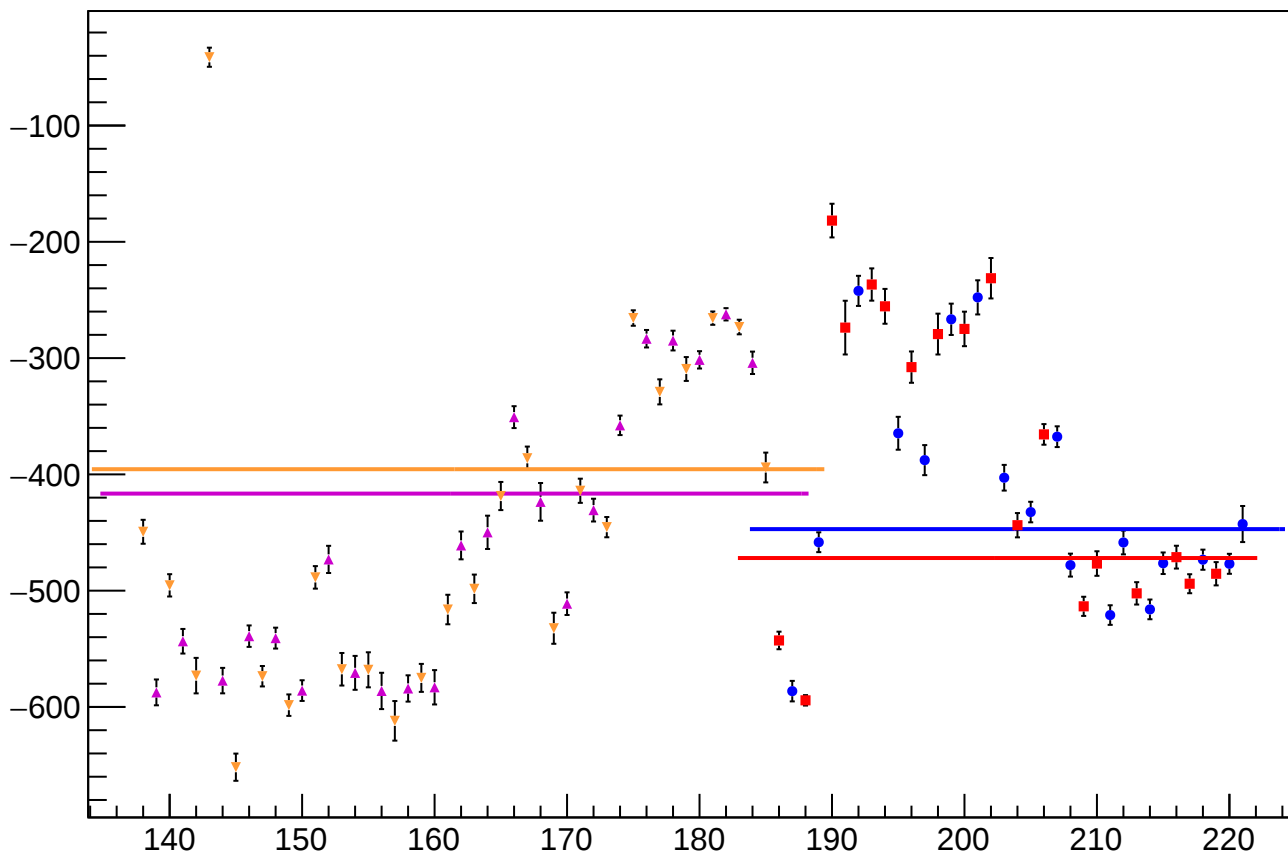
Right: -1.052 ± 0.024 χ^2/NDF : 1352719.3/71

In: -12.957 ± 0.018 χ^2/NDF : 1121030.5/57

Out: -13.263 ± 0.018 χ^2/NDF : 1149467.8/61

All: -13.112 ± 0.012 χ^2/NDF : 2270648.8/119

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -447.069 ± 2.372 $\chi^2/\text{NDF}: 1204.0/17$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -471.926 ± 2.283 $\chi^2/\text{NDF}: 2636.0/17$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

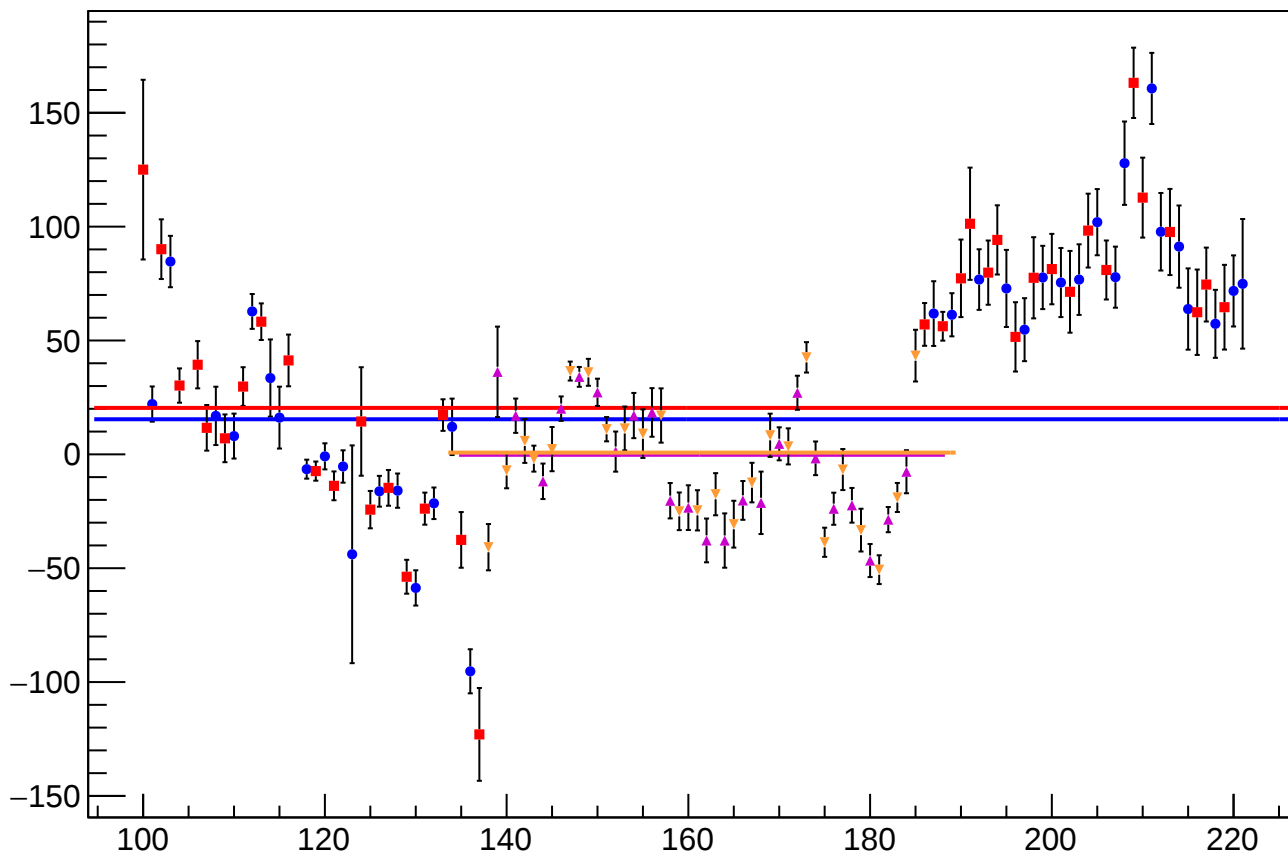
Right: -459.973 ± 1.645 $\chi^2/\text{NDF}: 3896.9/35$

In: -429.250 ± 1.531 $\chi^2/\text{NDF}: 5217.7/40$

Out: -427.833 ± 1.484 $\chi^2/\text{NDF}: 9228.7/42$

All: -428.520 ± 1.066 $\chi^2/\text{NDF}: 14446.9/83$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.410 ± 1.689 $\chi^2/\text{NDF}: 795.4/34$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 20.400 ± 1.650 $\chi^2/\text{NDF}: 748.2/36$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

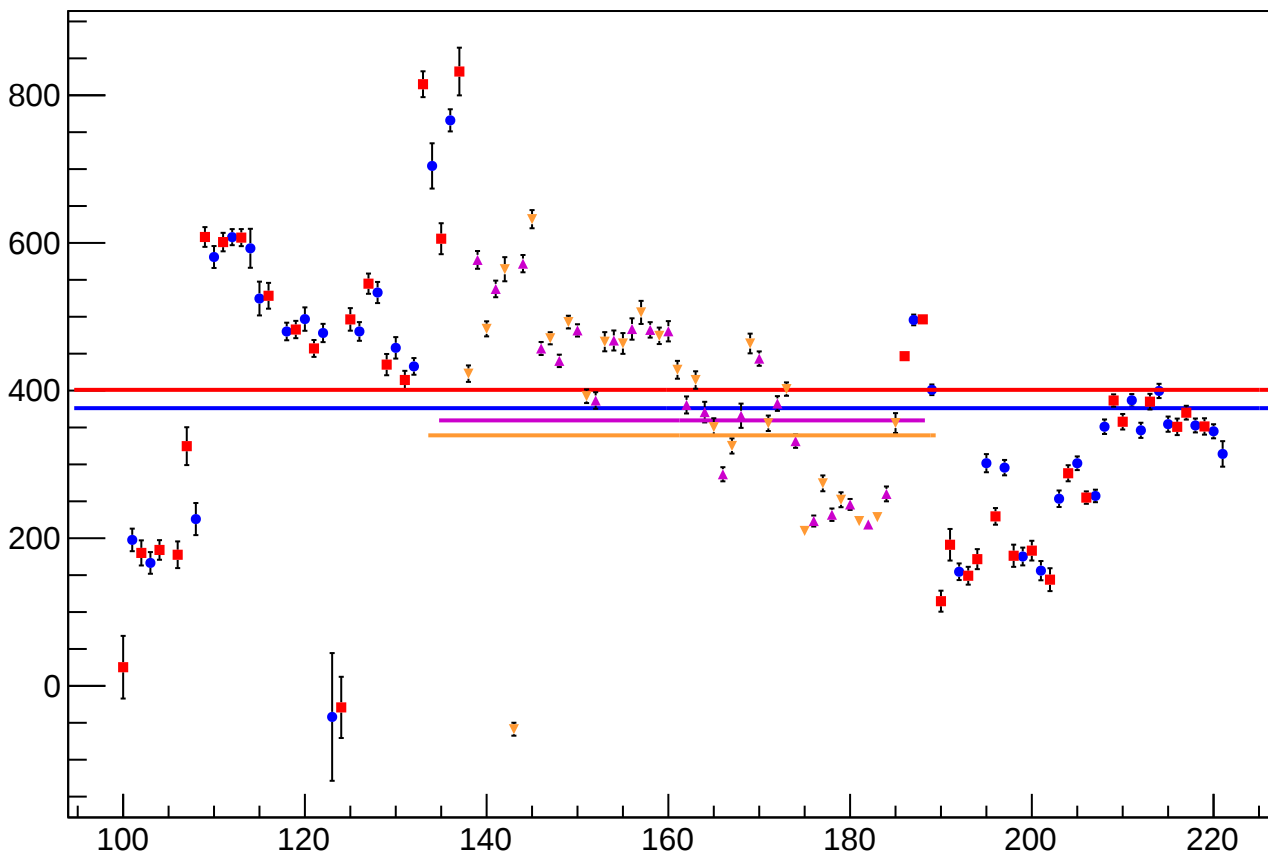
Right: 17.964 ± 1.180 $\chi^2/\text{NDF}: 1548.1/71$

In: 7.059 ± 1.152 $\chi^2/\text{NDF}: 1101.9/57$

Out: 9.667 ± 1.111 $\chi^2/\text{NDF}: 1175.7/61$

All: 8.410 ± 0.800 $\chi^2/\text{NDF}: 2280.2/119$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 376.184 $\pm$ 1.953 χ^2 /NDF: 4167.7/34

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF: 5502.5/24

Right Out: 400.980 $\pm$ 1.802 χ^2 /NDF: 6165.0/36

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF: 3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

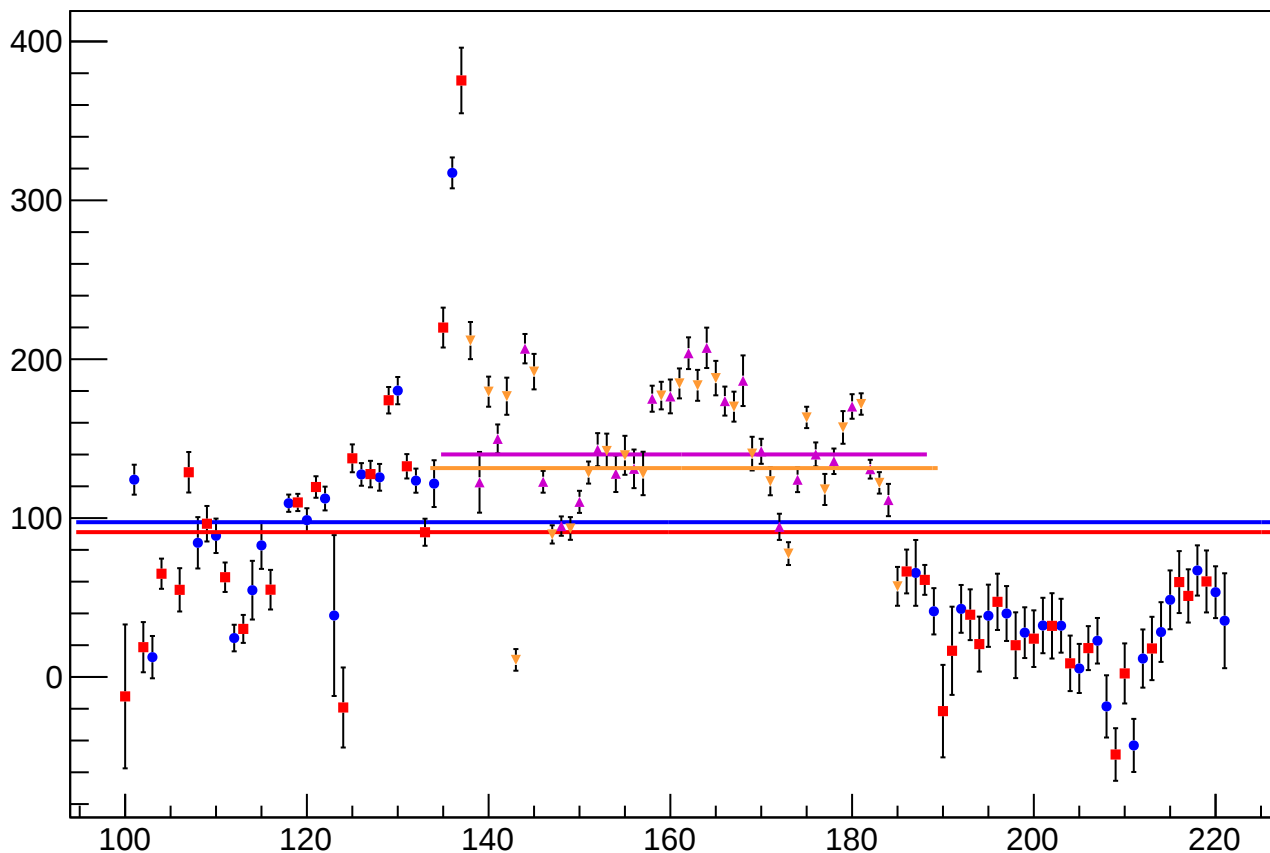
Right: 389.578 $\pm$ 1.325 χ^2 /NDF: 10419.8/71

In: 368.103 $\pm$ 1.398 χ^2 /NDF: 7601.3/57

Out: 372.789 $\pm$ 1.327 χ^2 /NDF: 12202.4/61

All: 370.568 $\pm$ 0.963 χ^2 /NDF: 19809.6/119

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 97.420+/-1.954 χ^2 /NDF: 1114.7/34

Left Out: 131.464+/-1.728 χ^2 /NDF:809.3/24

Right Out: 91.156+/-1.930 χ^2 /NDF: 906.3/36

Left In: 140.069+/-1.795 χ^2 /NDF:316.5/22

Left: 135.602+/-1.245 χ^2 /NDF: 1137.8/47

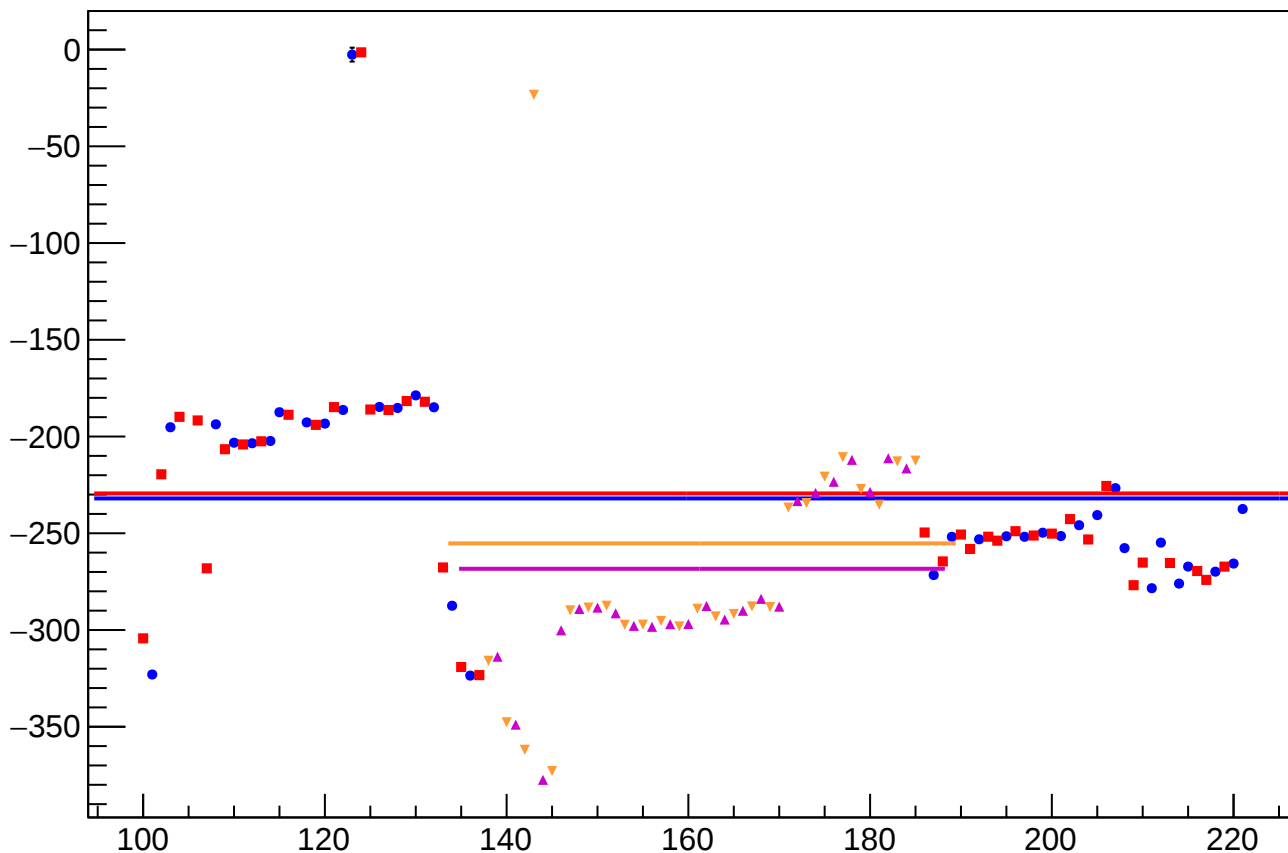
Right: 94.250+/-1.373 χ^2 /NDF: 2026.1/71

In: 120.548+/-1.322 χ^2 /NDF:1689.6/57

Out: 113.533+/-1.287 χ^2 /NDF:1957.8/61

All: 116.947+/-0.922 χ^2 /NDF: 3661.8/119

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -232.001 ± 0.104 $\chi^2/\text{NDF}: 179620.0/34$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -229.415 ± 0.100 $\chi^2/\text{NDF}: 161045.5/36$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

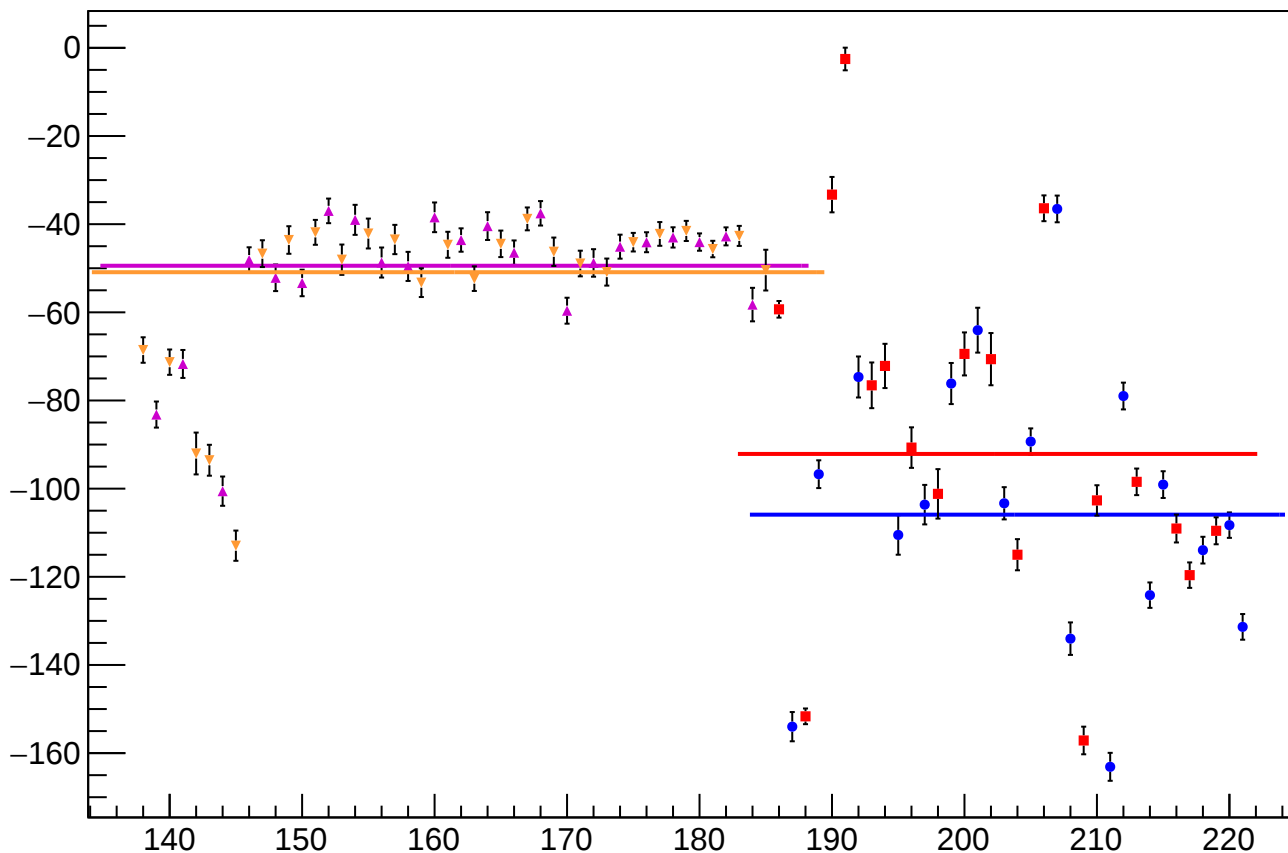
Right: -230.659 ± 0.072 $\chi^2/\text{NDF}: 340987.1/71$

In: -254.056 ± 0.065 $\chi^2/\text{NDF}: 516419.7/57$

Out: -244.860 ± 0.063 $\chi^2/\text{NDF}: 928922.7/61$

All: -249.334 ± 0.045 $\chi^2/\text{NDF}: 1455579.4/111$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -105.900 ± 0.797 χ^2/NDF : 1519.8/17

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -92.126 ± 0.734 χ^2/NDF : 3914.8/17

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

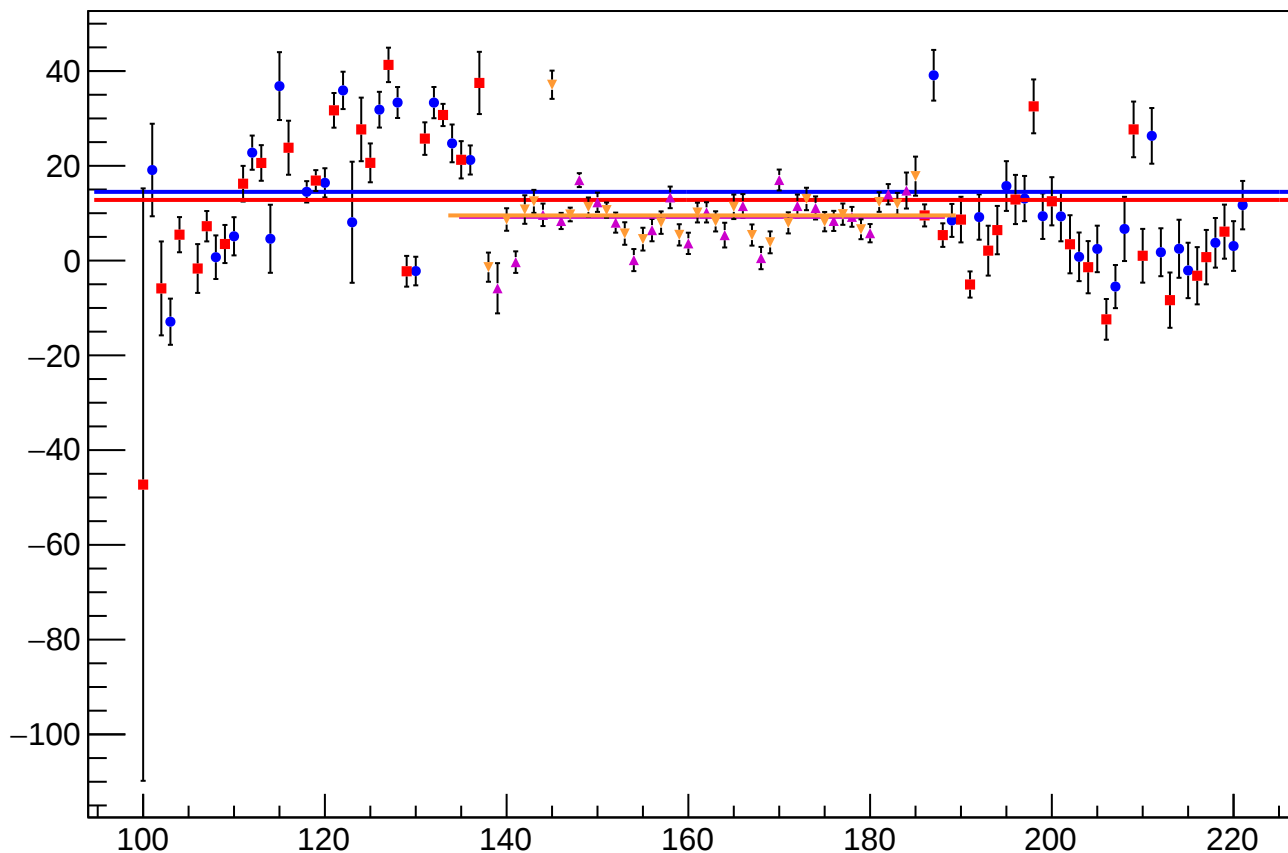
Right: -98.447 ± 0.540 χ^2/NDF : 5596.3/35

In: -69.160 ± 0.471 χ^2/NDF : 5330.4/40

Out: -66.505 ± 0.452 χ^2/NDF : 6637.5/42

All: -67.777 ± 0.326 χ^2/NDF : 11984.5/83

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.503 $\pm$ 0.727 χ^2 /NDF: 315.4/34

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 12.801 $\pm$ 0.655 χ^2 /NDF: 398.0/36

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

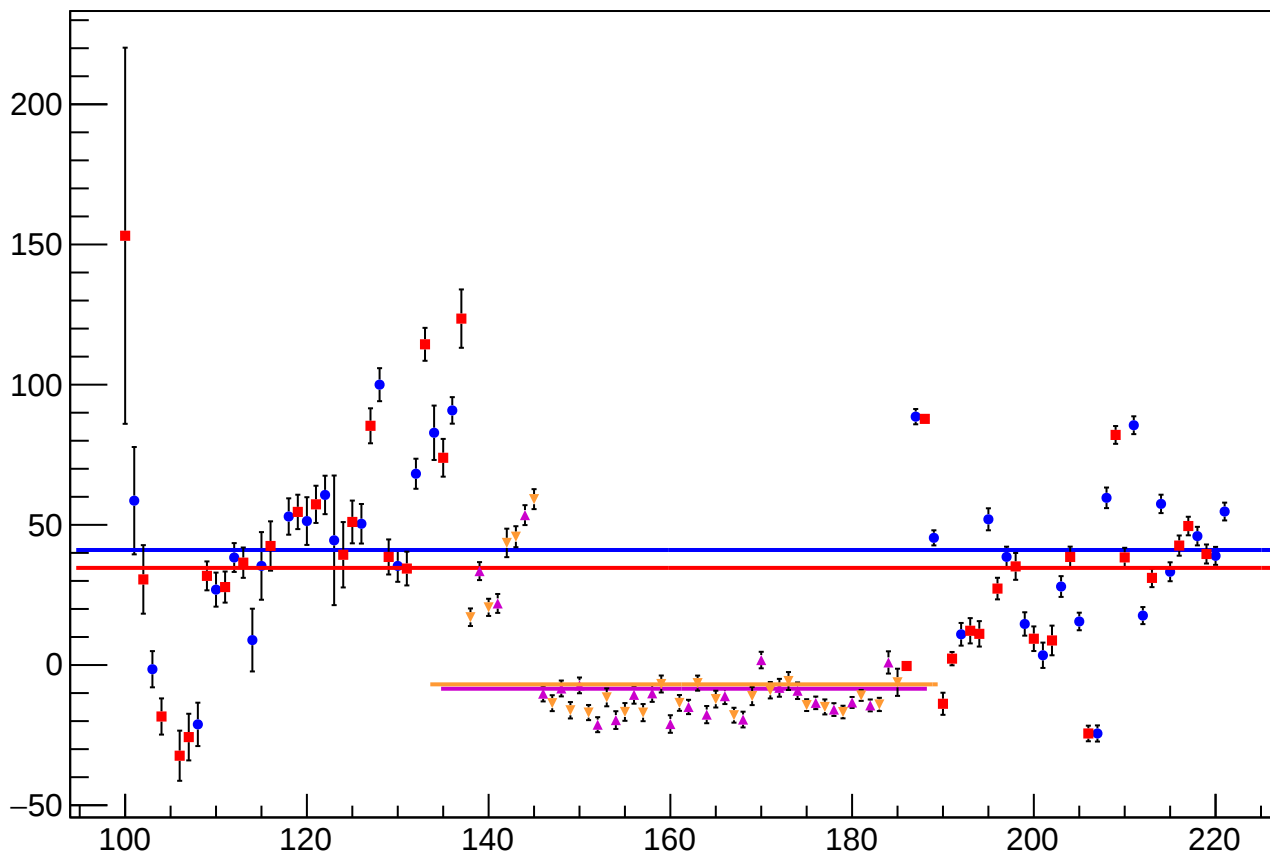
Right: 13.563 $\pm$ 0.487 χ^2 /NDF: 716.4/71

In: 10.745 $\pm$ 0.390 χ^2 /NDF:476.8/57

Out: 10.567 $\pm$ 0.369 χ^2 /NDF:549.4/61

All: 10.651 $\pm$ 0.268 χ^2 /NDF: 1026.4/119

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 41.032 ± 0.711 $\chi^2/\text{NDF}: 1800.6/34$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 34.645 ± 0.622 $\chi^2/\text{NDF}: 3626.6/36$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

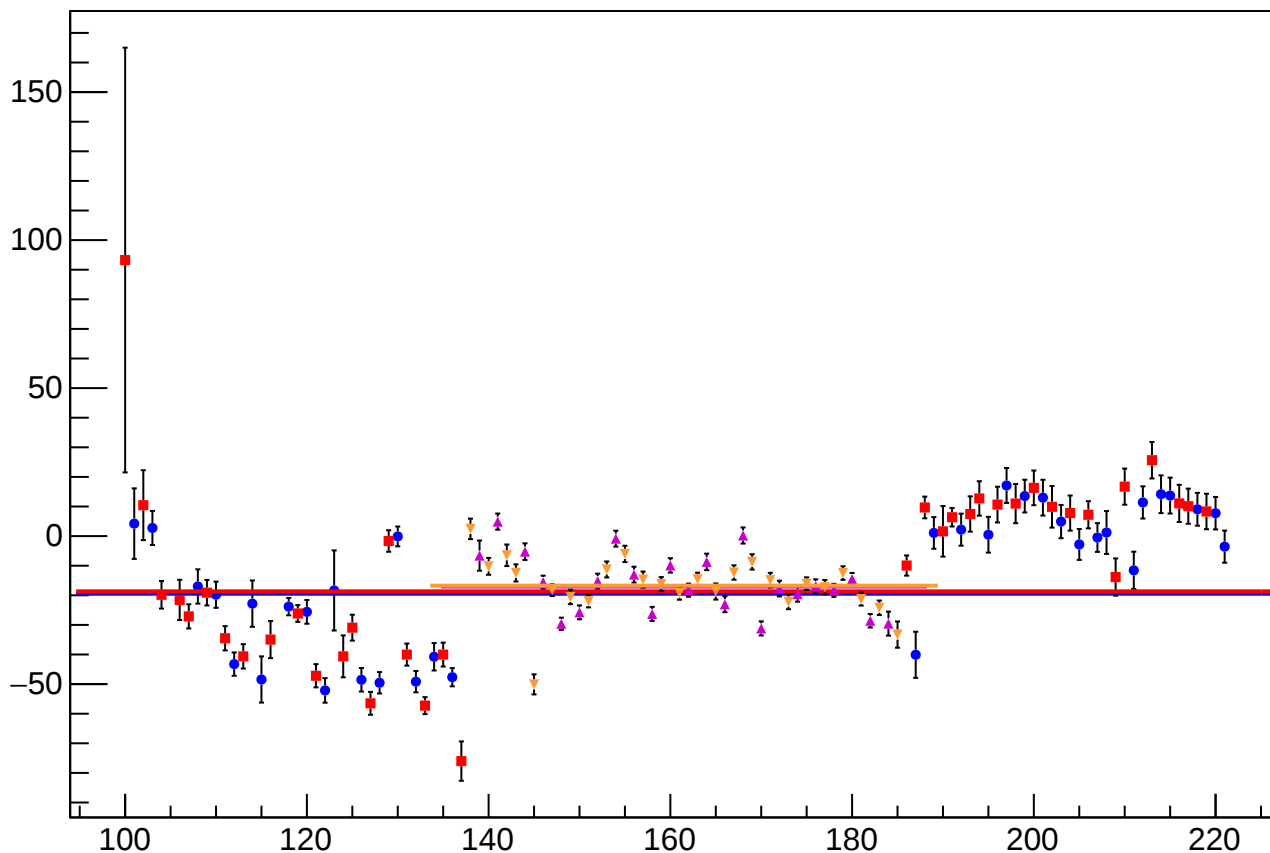
Right: 37.415 ± 0.468 $\chi^2/\text{NDF}: 5472.9/71$

In: 11.323 ± 0.449 $\chi^2/\text{NDF}: 5400.0/57$

Out: 12.104 ± 0.421 $\chi^2/\text{NDF}: 6960.3/61$

All: 11.739 ± 0.307 $\chi^2/\text{NDF}: 12361.9/119$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -19.461 ± 0.828 χ^2/NDF : 820.0/34

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -18.654 ± 0.770 χ^2/NDF : 1058.8/36

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

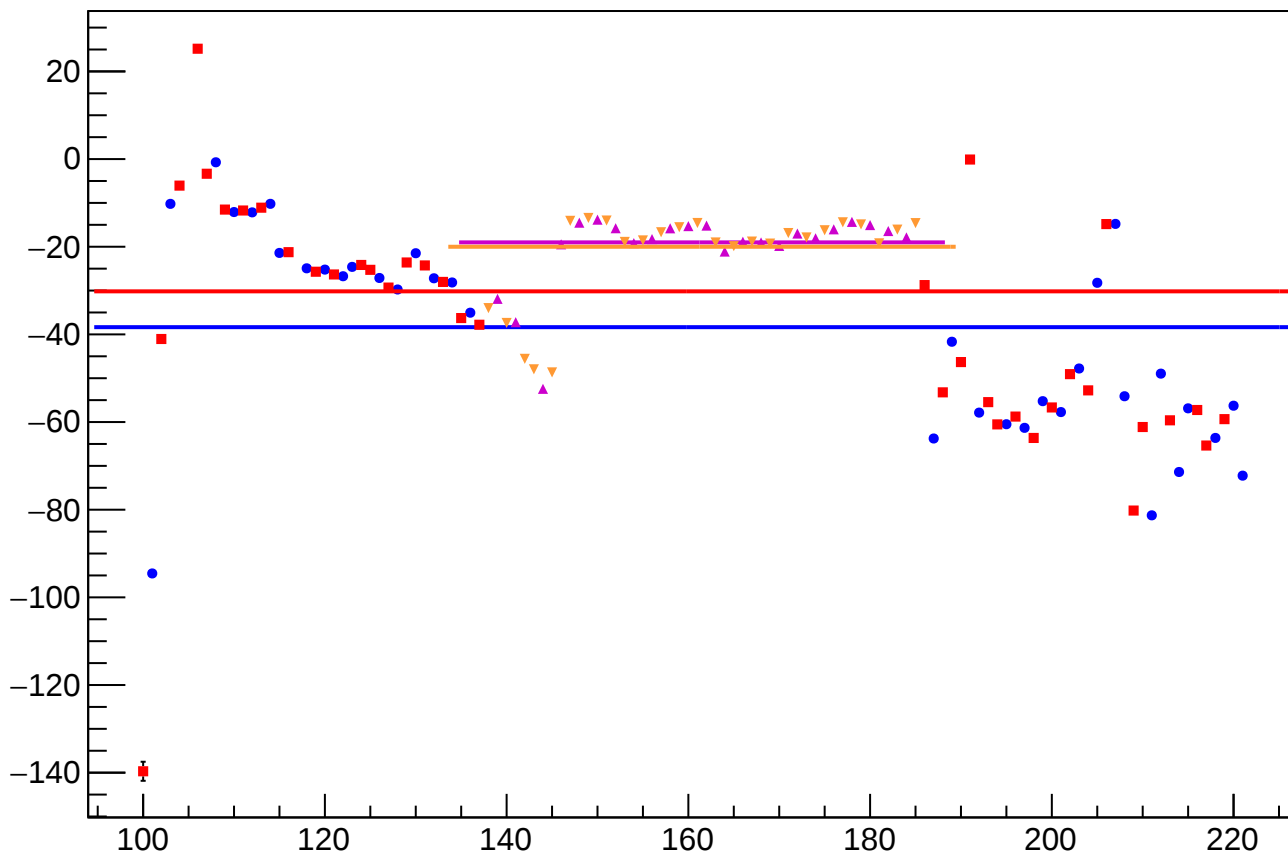
Right: -19.028 ± 0.564 χ^2/NDF : 1879.3/71

In: -17.716 ± 0.442 χ^2/NDF : 1153.7/57

Out: -17.313 ± 0.423 χ^2/NDF : 1286.4/61

All: -17.506 ± 0.306 χ^2/NDF : 2440.6/119

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -38.352 ± 0.040 $\chi^2/\text{NDF}: 279928.3/34$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -30.179 ± 0.036 $\chi^2/\text{NDF}: 492513.6/36$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

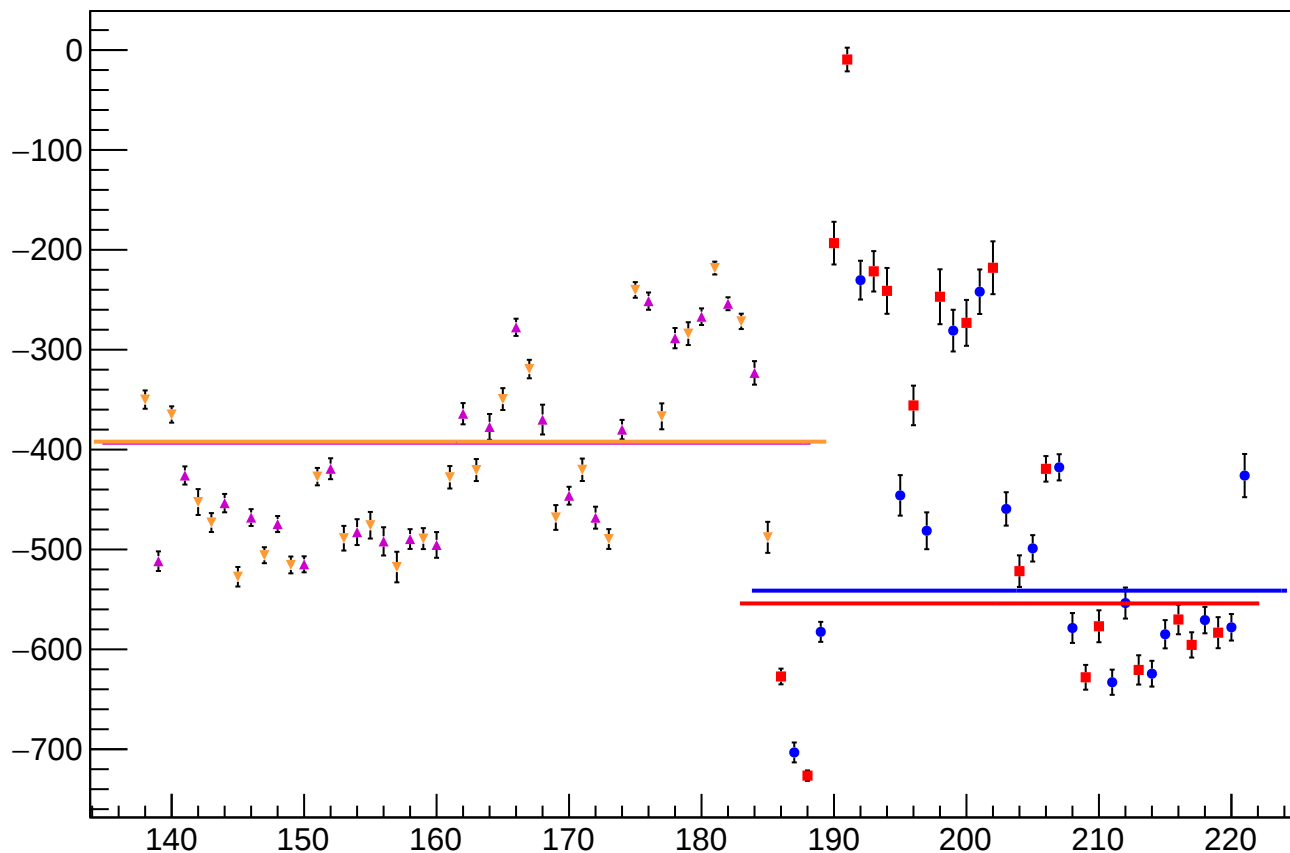
Right: -33.816 ± 0.027 $\chi^2/\text{NDF}: 795886.8/71$

In: -24.069 ± 0.020 $\chi^2/\text{NDF}: 545529.4/57$

Out: -23.056 ± 0.019 $\chi^2/\text{NDF}: 695308.6/61$

All: -23.541 ± 0.014 $\chi^2/\text{NDF}: 1242131.9/119$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -541.229+/-3.392 χ^2/NDF : 1180.8/17

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -554.037+/-2.956 χ^2/NDF : 4769.8/17

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

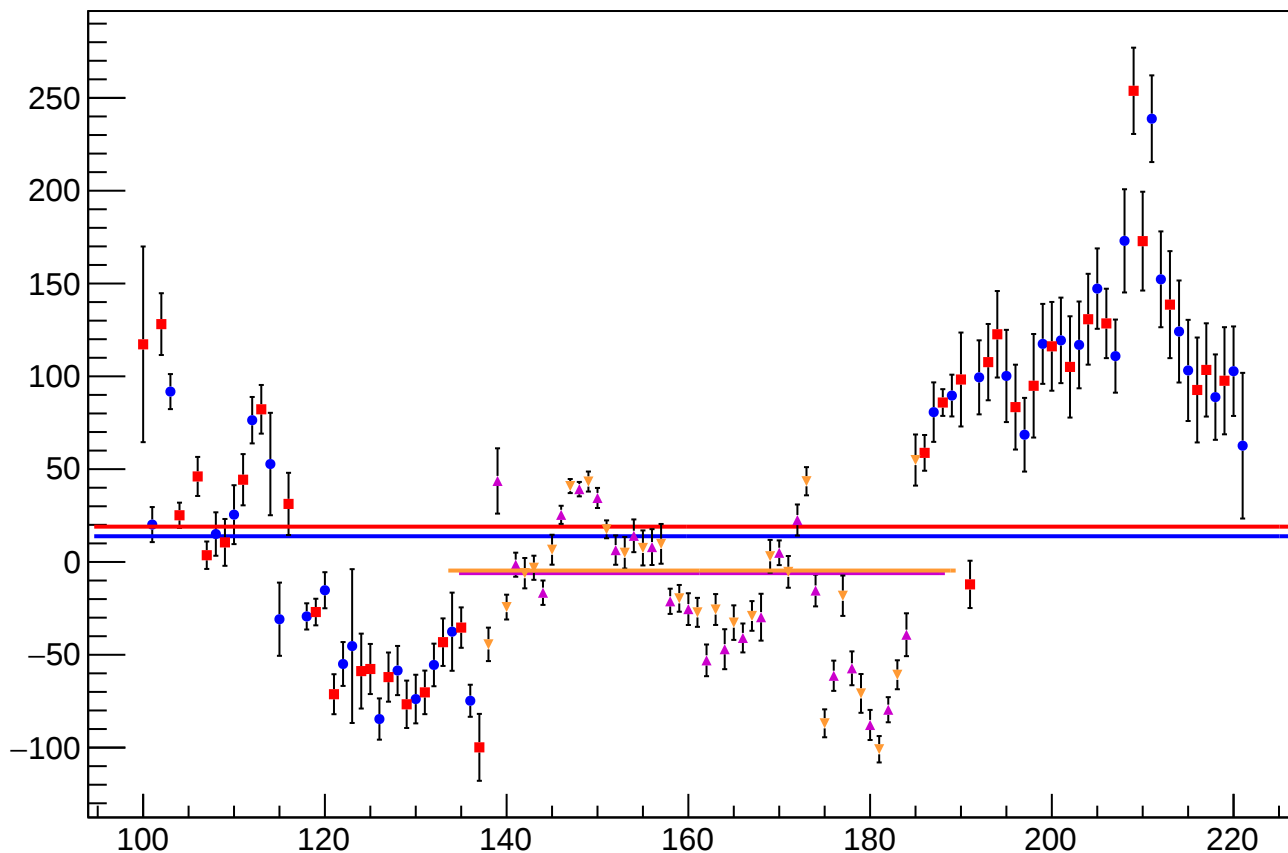
Right: -548.509+/-2.228 χ^2/NDF : 5958.7/35

In: -431.483+/-1.726 χ^2/NDF : 4847.0/40

Out: -441.756+/-1.637 χ^2/NDF : 9568.7/42

All: -436.891+/-1.188 χ^2/NDF : 14434.4/83

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.854+/-2.455 χ^2/NDF : 918.2/34

Left Out: -4.624+/-1.462 χ^2/NDF : 772.9/24

Right Out: 19.028+/-2.193 χ^2/NDF : 920.5/36

Left In: -6.019+/-1.516 χ^2/NDF : 654.1/22

Left: -5.296+/-1.053 χ^2/NDF : 1427.4/47

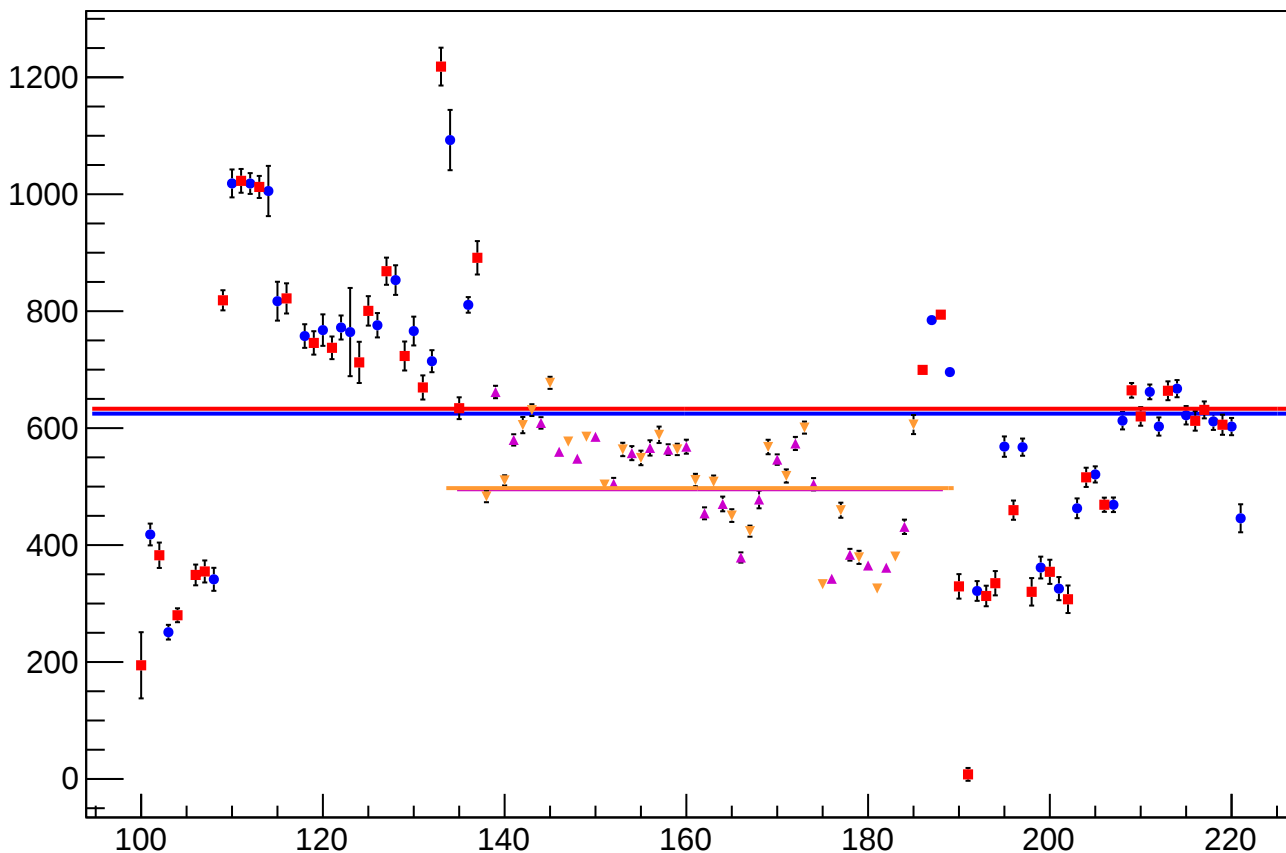
Right: 16.732+/-1.636 χ^2/NDF : 1841.1/71

In: -0.533+/-1.290 χ^2/NDF : 1619.7/57

Out: 2.656+/-1.217 χ^2/NDF : 1773.9/61

All: 1.155+/-0.885 χ^2/NDF : 3396.8/119

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 624.783 ± 2.722 $\chi^2/\text{NDF}: 4291.0/34$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 633.154 ± 2.298 $\chi^2/\text{NDF}: 9636.5/36$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

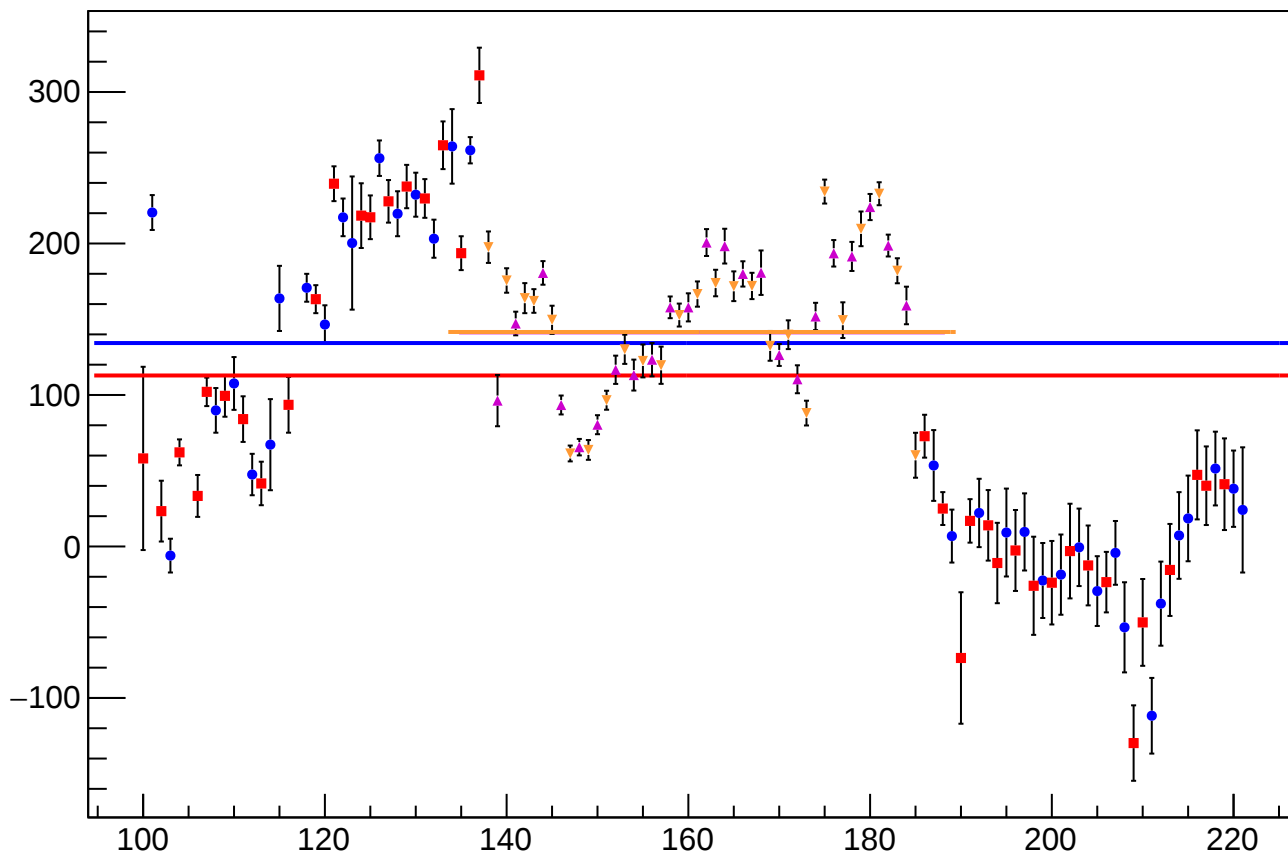
Right: 629.671 ± 1.756 $\chi^2/\text{NDF}: 13933.1/71$

In: 540.560 ± 1.608 $\chi^2/\text{NDF}: 8014.7/57$

Out: 554.754 ± 1.494 $\chi^2/\text{NDF}: 14266.7/61$

All: 548.177 ± 1.094 $\chi^2/\text{NDF}: 22323.2/119$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 134.287 $\pm$ 2.842 χ^2 /NDF: 1369.2/34

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 112.871 $\pm$ 2.615 χ^2 /NDF: 1322.9/36

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

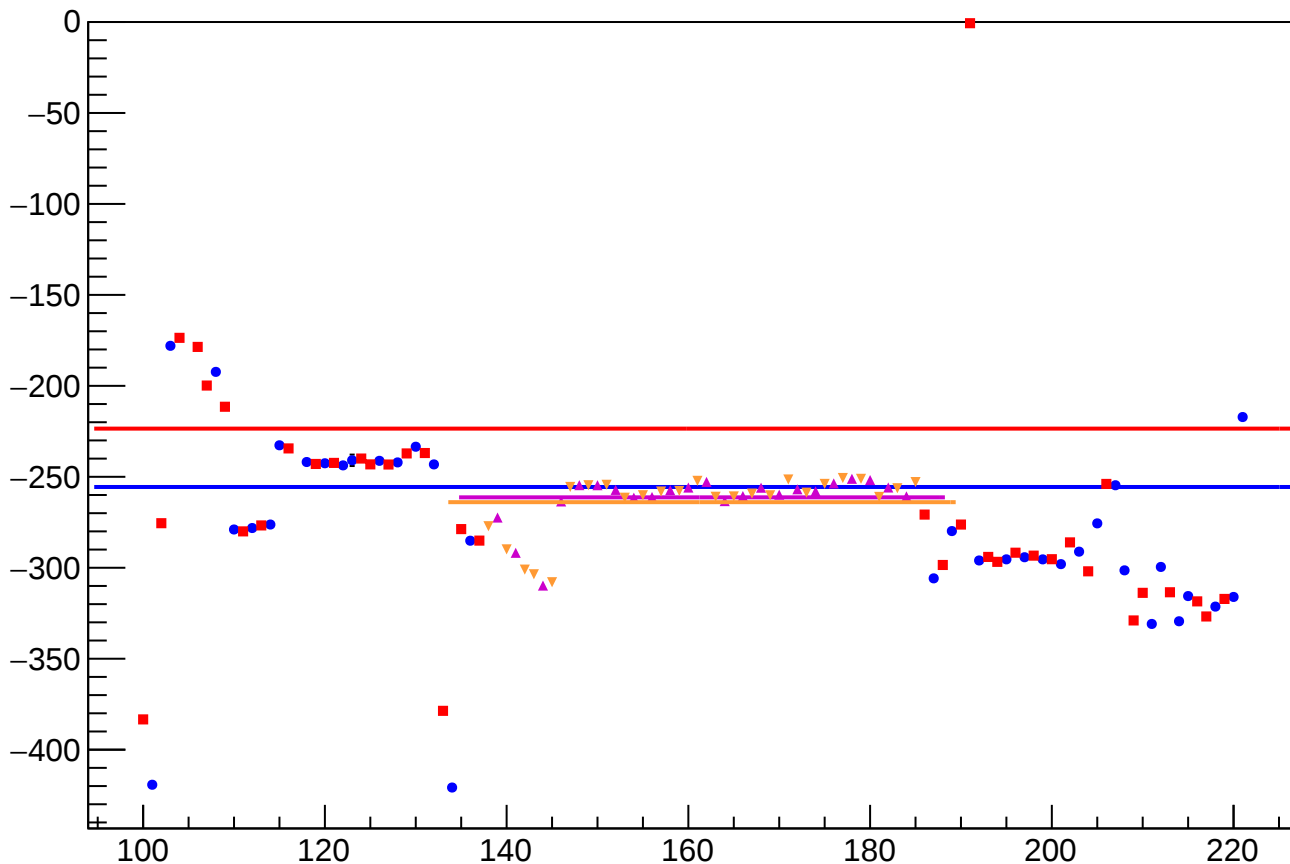
Right: 122.692 $\pm$ 1.924 χ^2 /NDF: 2722.9/71

In: 139.419 $\pm$ 1.489 χ^2 /NDF:2115.0/57

Out: 133.069 $\pm$ 1.424 χ^2 /NDF:2367.3/61

All: 136.104 $\pm$ 1.029 χ^2 /NDF: 4491.8/119

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -255.595+/-0.133 χ^2/NDF : 210963.5/34

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -223.509+/-0.121 χ^2/NDF : 520966.7/36

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

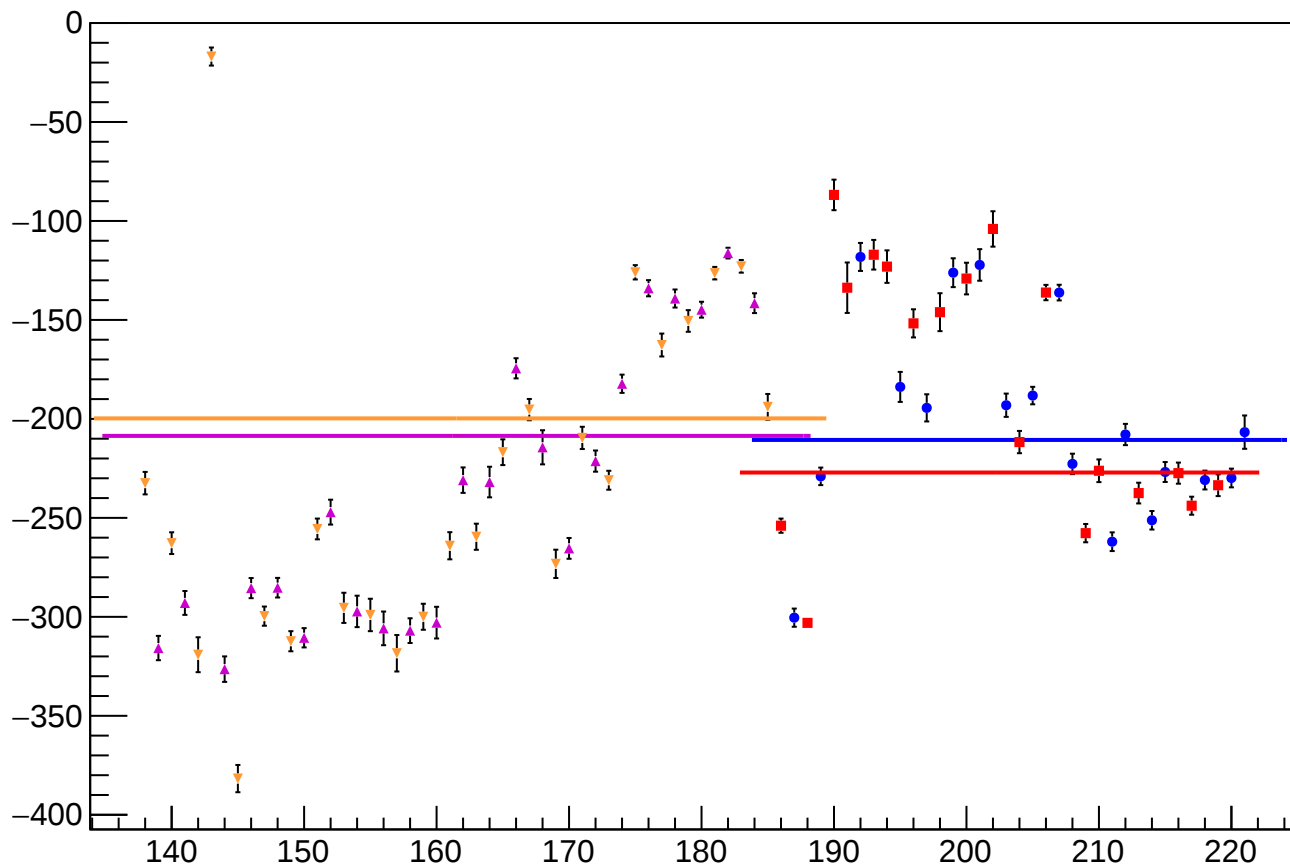
Right: -237.974+/-0.089 χ^2/NDF : 763888.7/71

In: -259.720+/-0.070 χ^2/NDF : 235638.6/57

Out: -251.308+/-0.067 χ^2/NDF : 637450.1/61

All: -255.365+/-0.048 χ^2/NDF : 880610.3/119

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -210.628 ± 1.250 $\chi^2/\text{NDF}: 1478.4/17$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -227.085 ± 1.197 $\chi^2/\text{NDF}: 2987.2/17$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

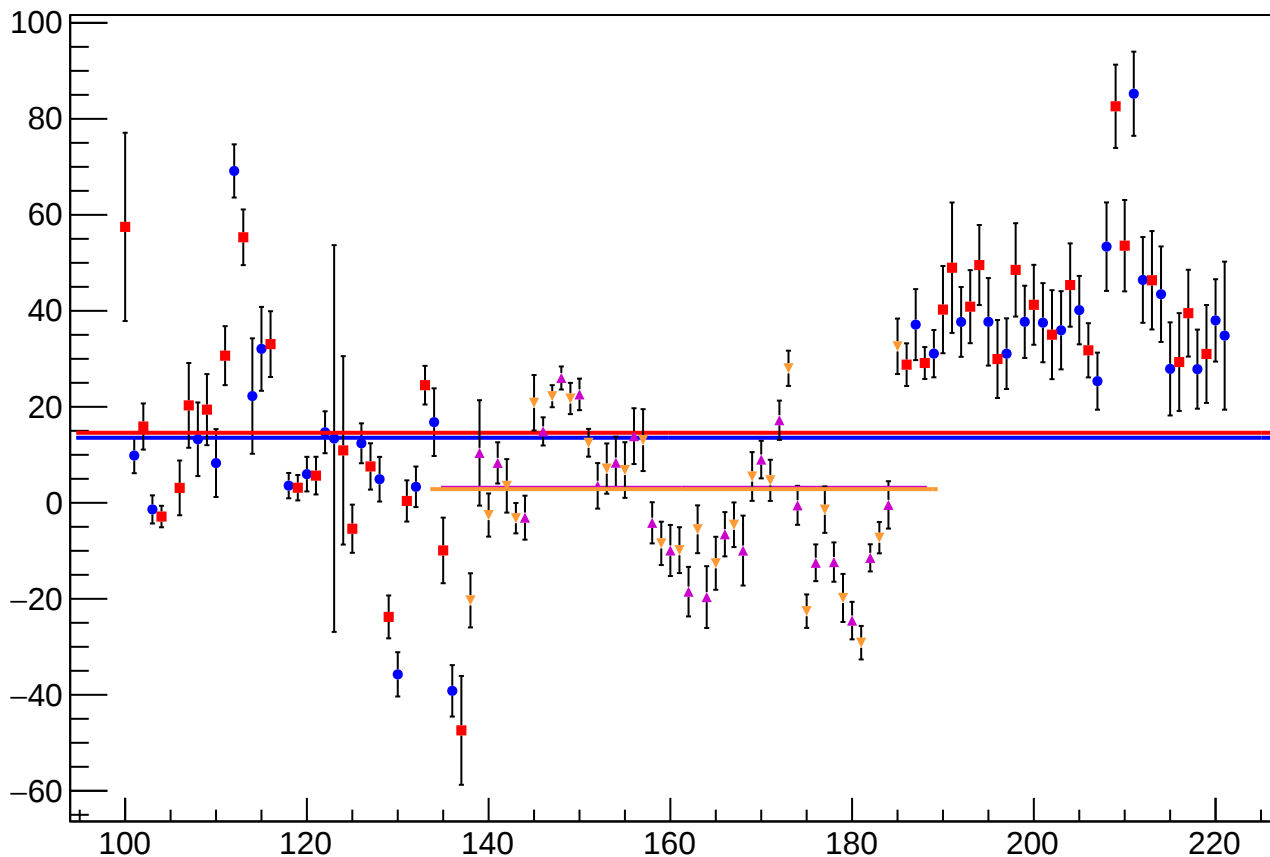
Right: -219.213 ± 0.864 $\chi^2/\text{NDF}: 4556.1/35$

In: -209.457 ± 0.818 $\chi^2/\text{NDF}: 6285.0/40$

Out: -211.779 ± 0.794 $\chi^2/\text{NDF}: 9641.0/42$

All: -210.653 ± 0.570 $\chi^2/\text{NDF}: 15930.2/83$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.555 $\pm$ 0.949 χ^2 /NDF: 586.7/34

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.595 $\pm$ 0.903 χ^2 /NDF: 535.7/36

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

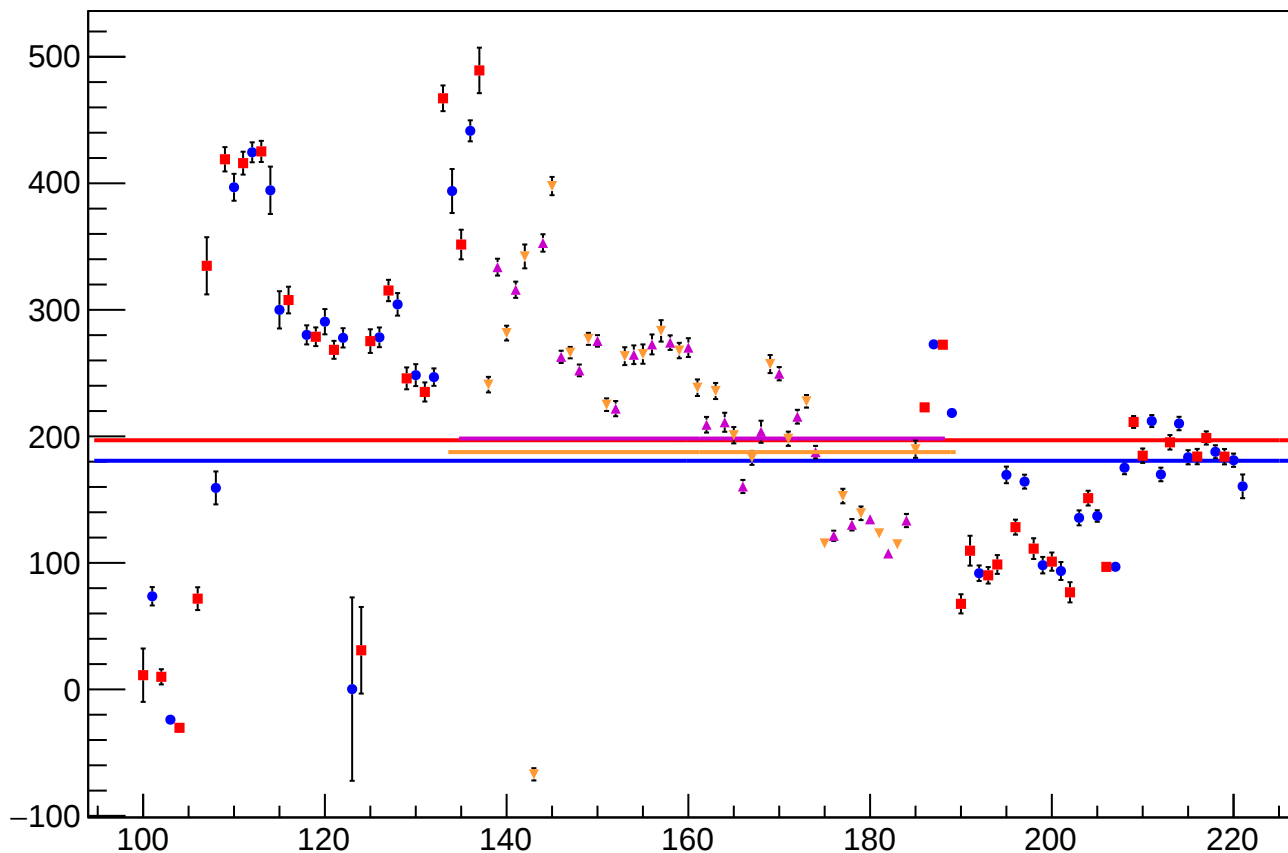
Right: 14.101 $\pm$ 0.654 χ^2 /NDF: 1122.9/71

In: 7.814 $\pm$ 0.636 χ^2 /NDF: 972.9/57

Out: 8.157 $\pm$ 0.607 χ^2 /NDF: 1048.2/61

All: 7.994 $\pm$ 0.439 χ^2 /NDF: 2021.2/119

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.708 $\pm$ 1.033 χ^2 /NDF: 8776.6/34

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 196.922 $\pm$ 0.949 χ^2 /NDF: 12154.4/36

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

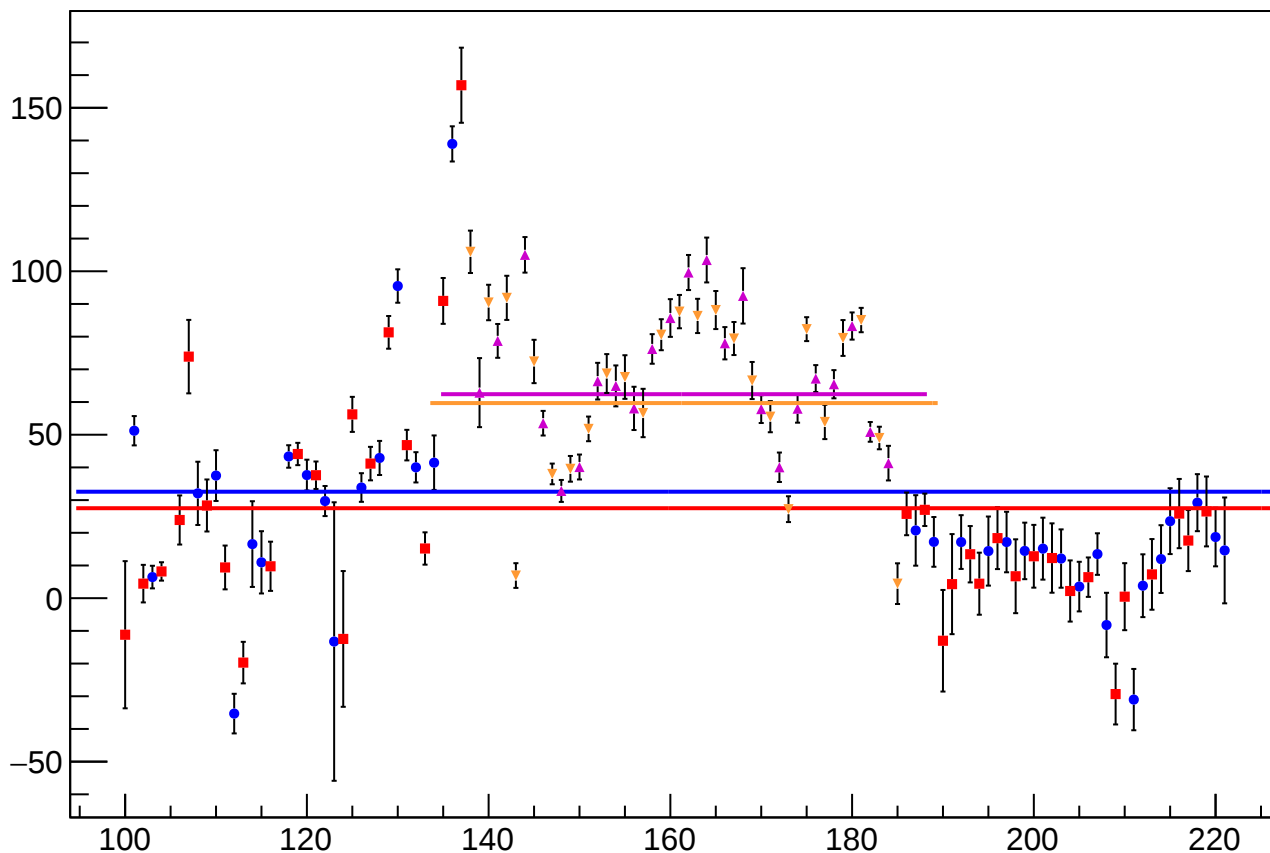
Right: 189.502 $\pm$ 0.699 χ^2 /NDF: 21064.7/71

In: 189.084 $\pm$ 0.747 χ^2 /NDF:13430.3/57

Out: 192.785 $\pm$ 0.709 χ^2 /NDF:19279.5/61

All: 191.032 $\pm$ 0.514 χ^2 /NDF: 32722.6/119

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.567 $\pm$ 1.100 χ^2 /NDF: 901.0/34

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.520 $\pm$ 1.071 χ^2 /NDF: 663.3/36

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF: 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

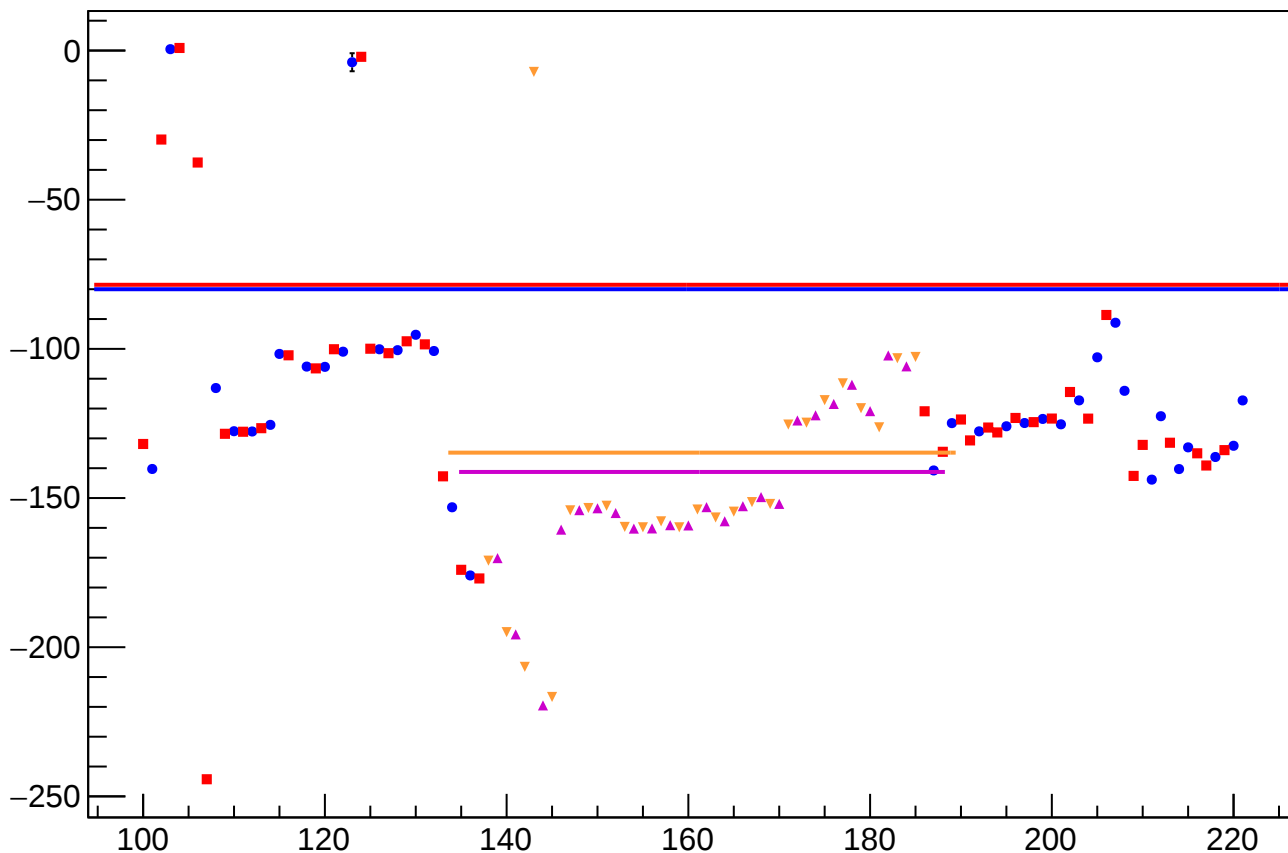
Right: 29.977 $\pm$ 0.767 χ^2 /NDF: 1575.2/71

In: 49.286 $\pm$ 0.729 χ^2 /NDF: 1719.6/57

Out: 45.681 $\pm$ 0.707 χ^2 /NDF: 1929.8/61

All: 47.427 $\pm$ 0.508 χ^2 /NDF: 3662.0/119

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -80.008 ± 0.050 $\chi^2/\text{NDF}: 1493382.7/34$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -78.518 ± 0.049 $\chi^2/\text{NDF}: 1471912.0/36$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

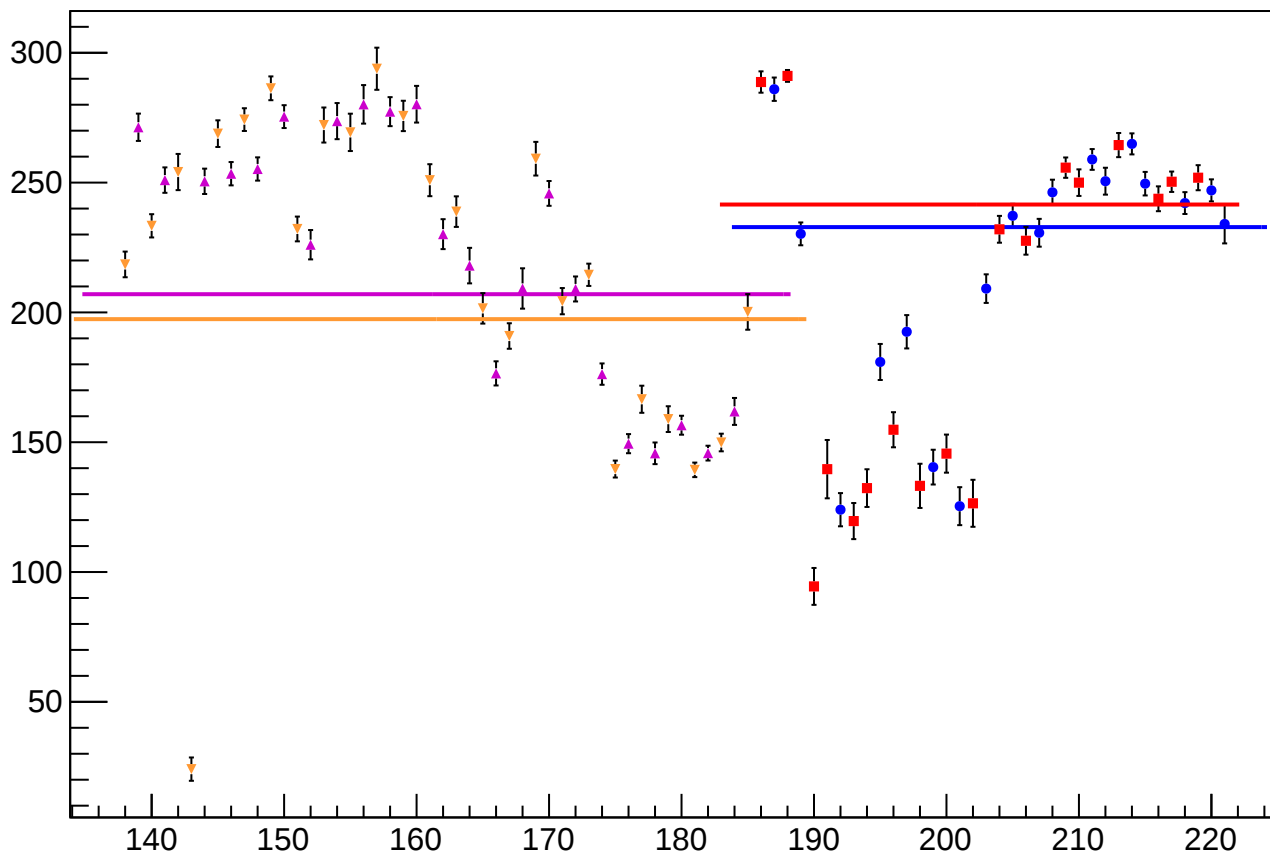
Right: -79.245 ± 0.035 $\chi^2/\text{NDF}: 2965754.9/71$

In: -113.462 ± 0.033 $\chi^2/\text{NDF}: 2670466.3/57$

Out: -109.083 ± 0.033 $\chi^2/\text{NDF}: 3006651.3/61$

All: -111.229 ± 0.023 $\chi^2/\text{NDF}: 5685848.4/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 232.857 $\pm$ 1.189 χ^2 /NDF: 1105.0/17

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24

Right Out: 241.555 $\pm$ 1.148 χ^2 /NDF: 2369.1/17

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

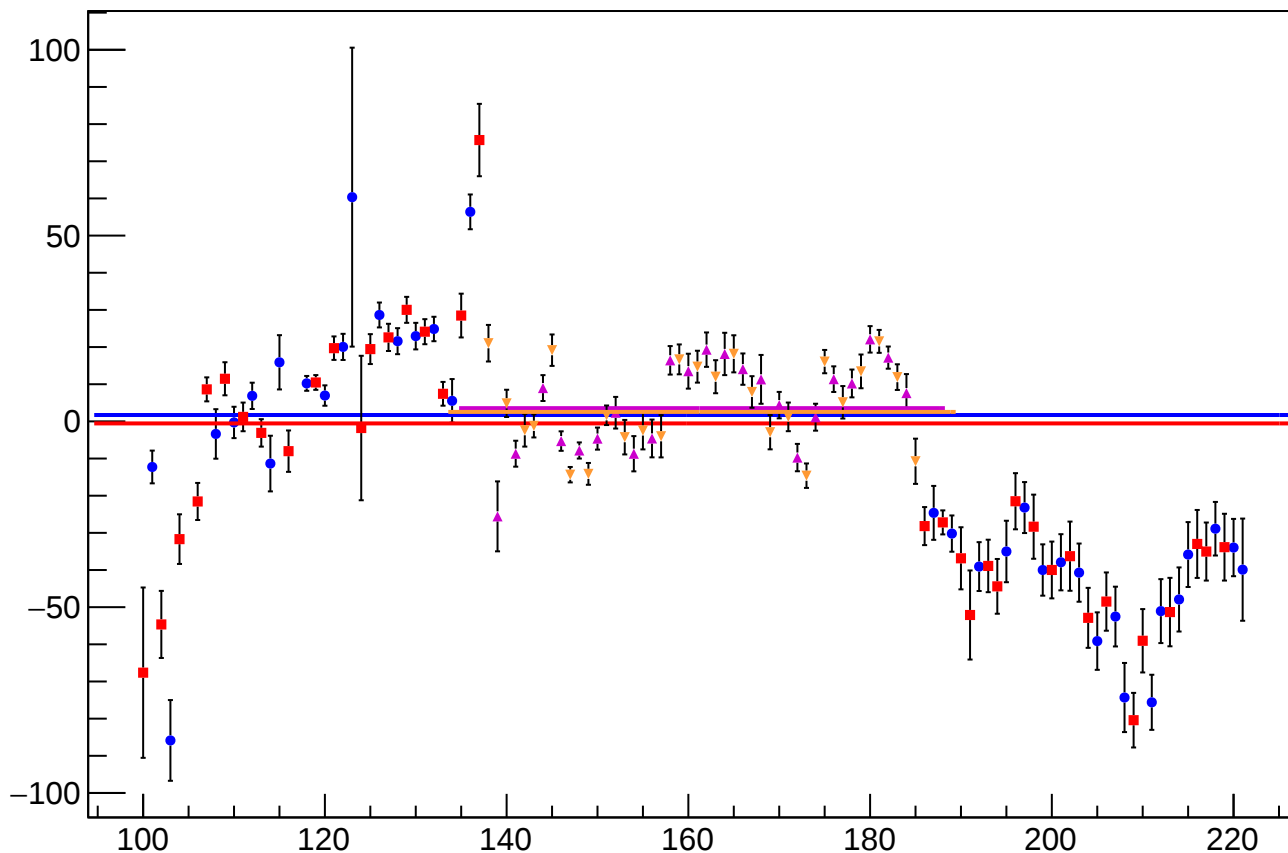
Right: 237.358 $\pm$ 0.826 χ^2 /NDF: 3501.8/35

In: 217.603 $\pm$ 0.761 χ^2 /NDF:3995.6/40

Out: 215.642 $\pm$ 0.738 χ^2 /NDF:7621.5/42

All: 216.593 $\pm$ 0.530 χ^2 /NDF: 11620.5/83

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.716 ± 0.829 χ^2/NDF : 1095.9/34

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.548 ± 0.799 χ^2/NDF : 1039.7/36

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

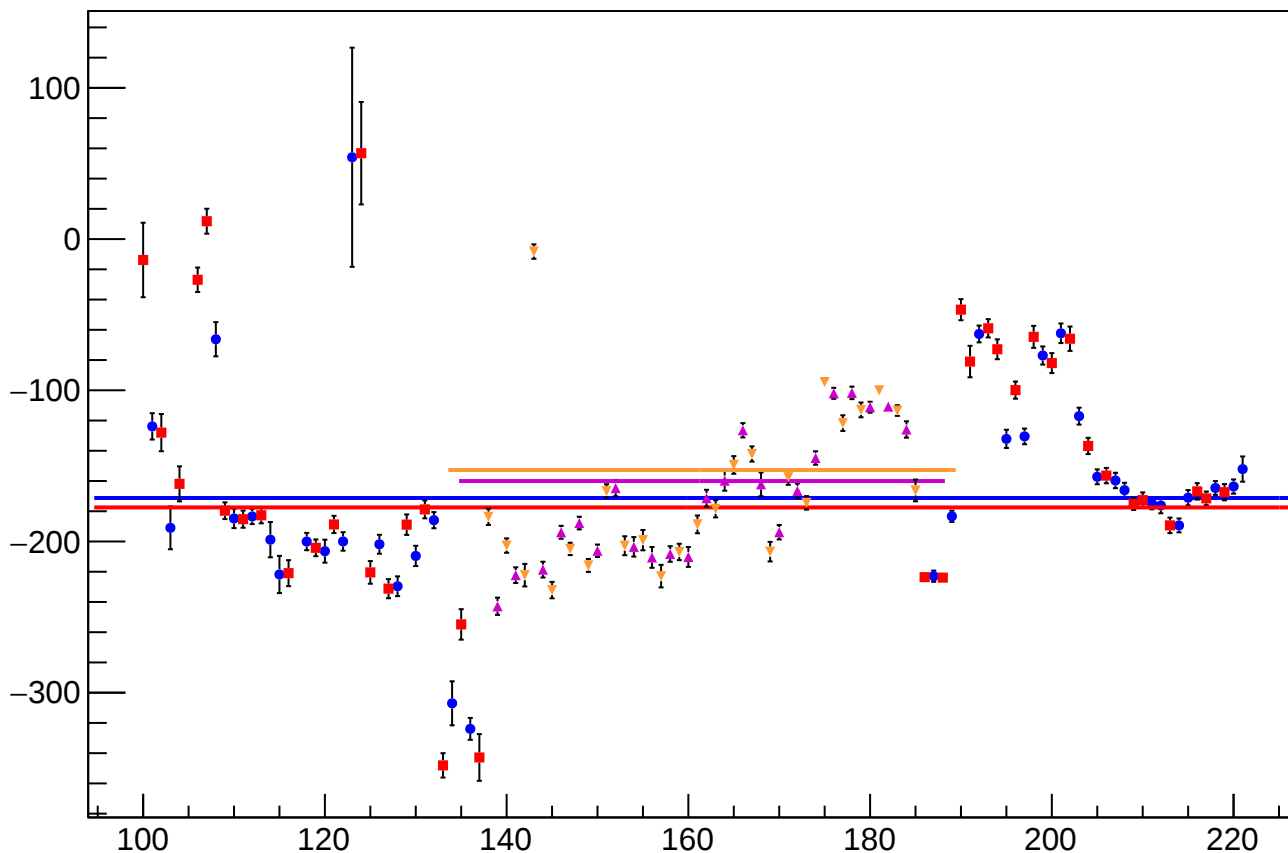
Right: 0.542 ± 0.575 χ^2/NDF : 2139.5/71

In: 2.701 ± 0.566 χ^2/NDF : 1290.5/57

Out: 1.117 ± 0.543 χ^2/NDF : 1323.2/61

All: 1.877 ± 0.392 χ^2/NDF : 2617.8/119

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.223 ± 0.976 $\chi^2/\text{NDF}: 2259.1/34$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -177.470 ± 0.900 $\chi^2/\text{NDF}: 4594.8/36$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

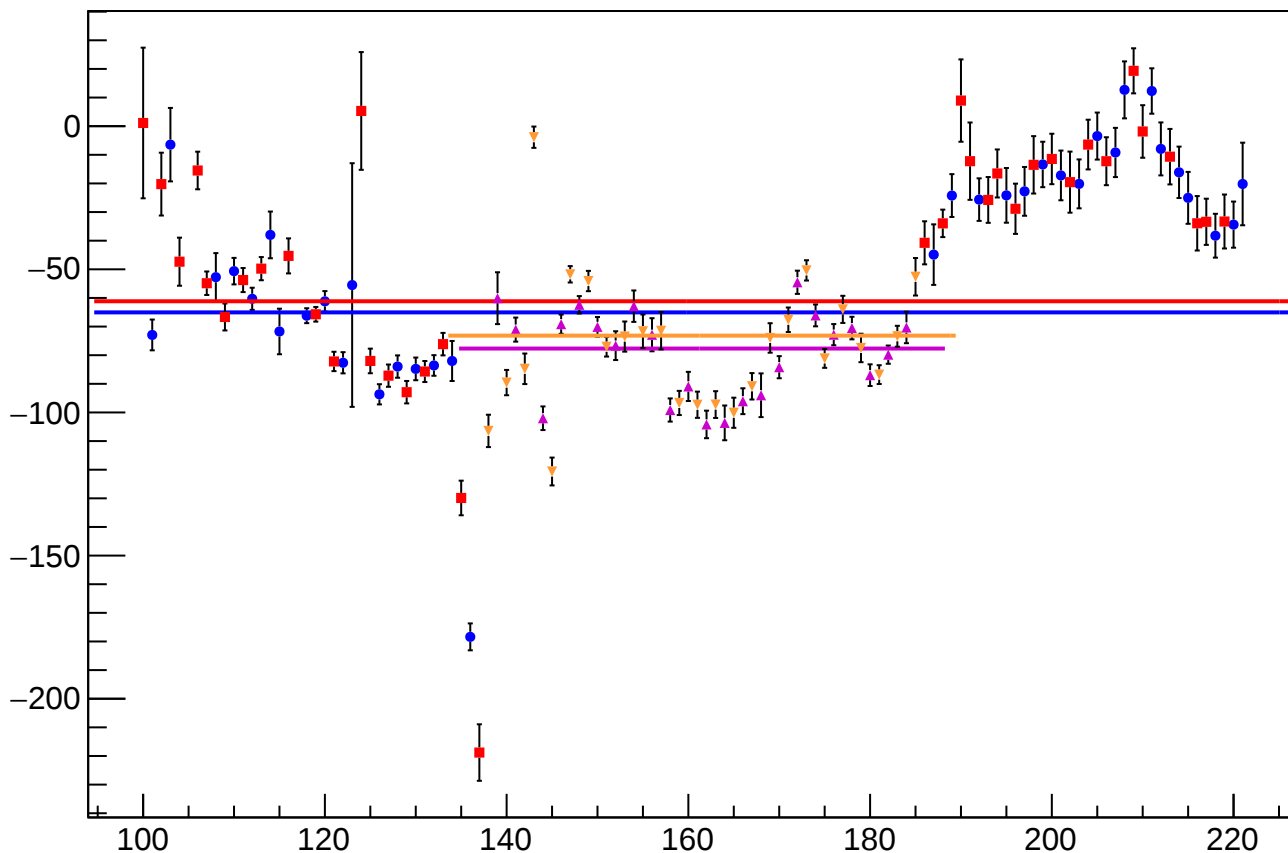
Right: -174.599 ± 0.662 $\chi^2/\text{NDF}: 6876.0/71$

In: -165.694 ± 0.695 $\chi^2/\text{NDF}: 4348.5/57$

Out: -165.985 ± 0.659 $\chi^2/\text{NDF}: 8023.0/61$

All: -165.847 ± 0.478 $\chi^2/\text{NDF}: 12371.5/119$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.046 ± 0.957 χ^2/NDF : 1383.1/34

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -61.159 ± 0.932 χ^2/NDF : 1205.5/36

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

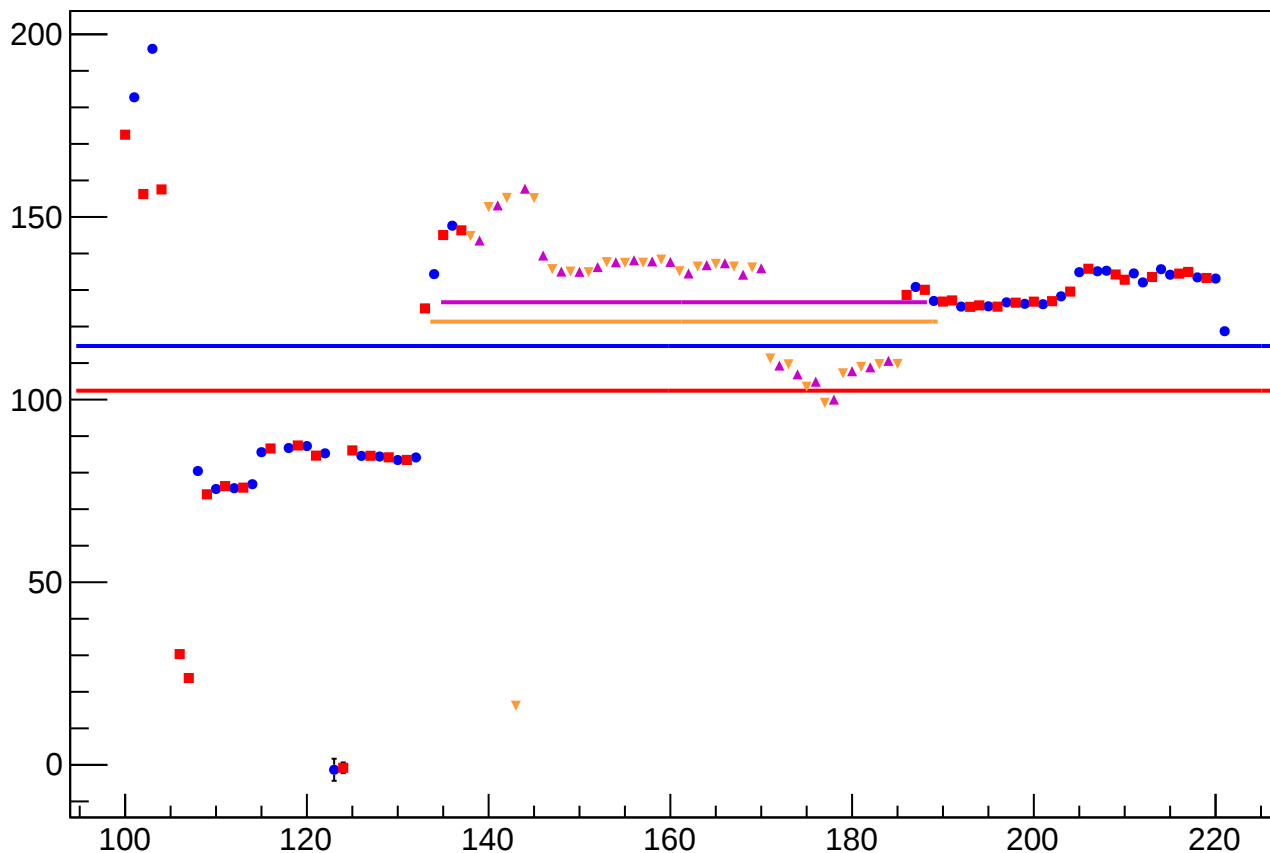
Right: -63.051 ± 0.668 χ^2/NDF : 2597.1/71

In: -71.871 ± 0.649 χ^2/NDF : 1725.4/57

Out: -67.707 ± 0.629 χ^2/NDF : 2084.6/61

All: -69.723 ± 0.452 χ^2/NDF : 3831.3/119

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.670 $\pm$ 0.053 χ^2 /NDF: 331574.8/34

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 102.440 $\pm$ 0.050 χ^2 /NDF: 610956.5/36

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

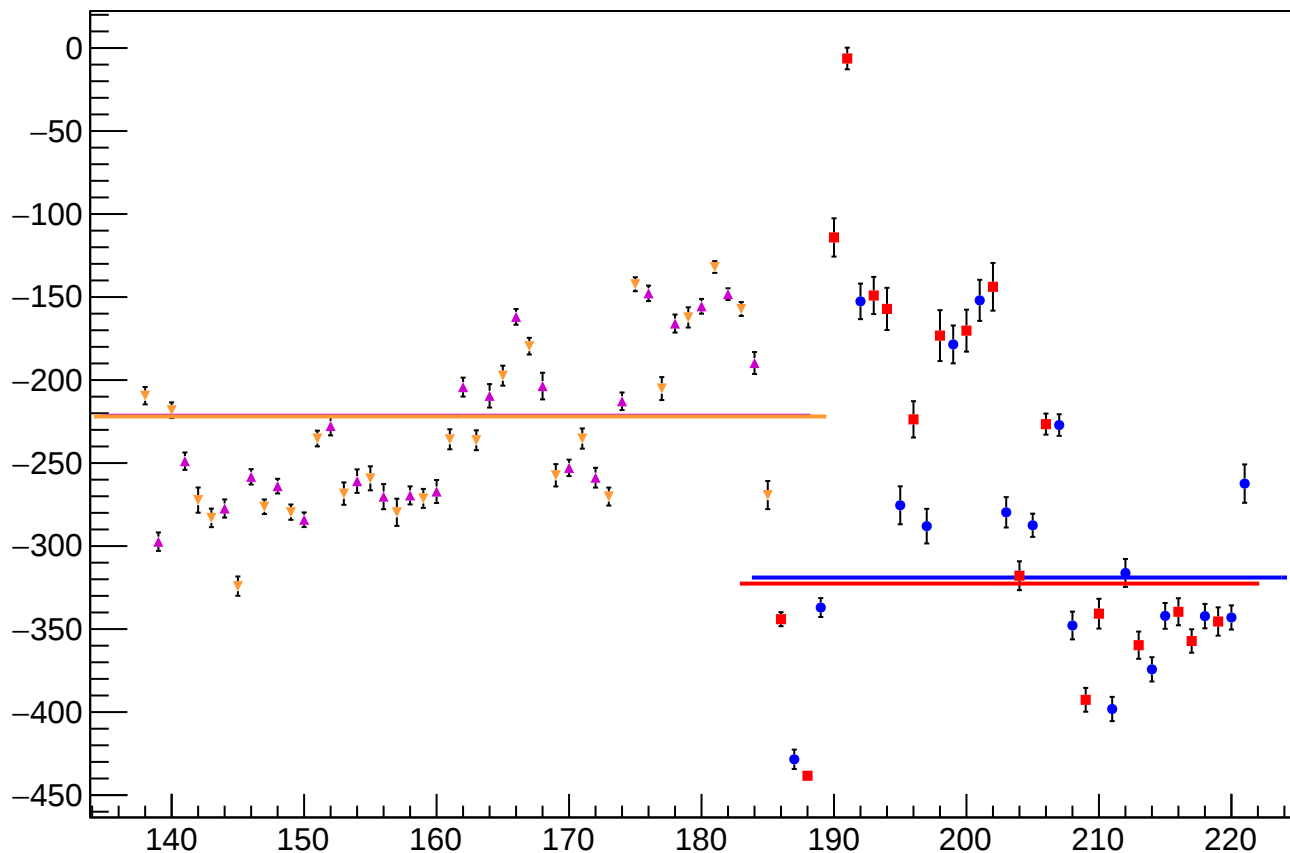
Right: 108.105 $\pm$ 0.036 χ^2 /NDF: 970788.2/71

In: 122.189 $\pm$ 0.033 χ^2 /NDF: 526324.7/57

Out: 113.818 $\pm$ 0.031 χ^2 /NDF: 1180709.4/61

All: 117.836 $\pm$ 0.023 χ^2 /NDF: 1741452.9/119

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -318.945 ± 1.878 χ^2/NDF : 1439.1/17

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -322.604 ± 1.649 χ^2/NDF : 5432.1/17

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

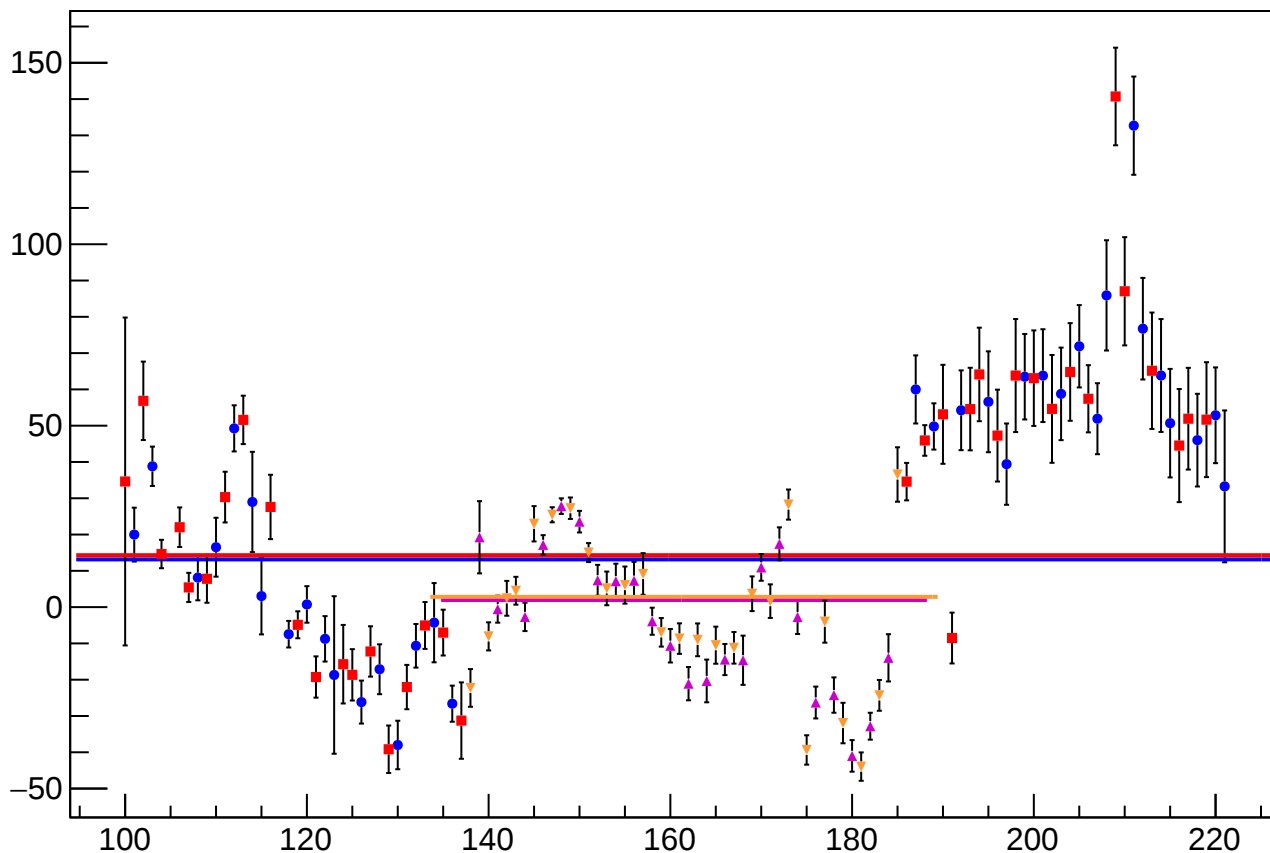
Right: -321.011 ± 1.239 χ^2/NDF : 6873.3/35

In: -246.447 ± 0.951 χ^2/NDF : 5591.5/40

Out: -252.316 ± 0.906 χ^2/NDF : 10611.3/42

All: -249.522 ± 0.656 χ^2/NDF : 16222.9/83

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.153+/-1.343 χ^2/NDF : 646.3/34

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 14.315+/-1.189 χ^2/NDF : 639.4/36

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

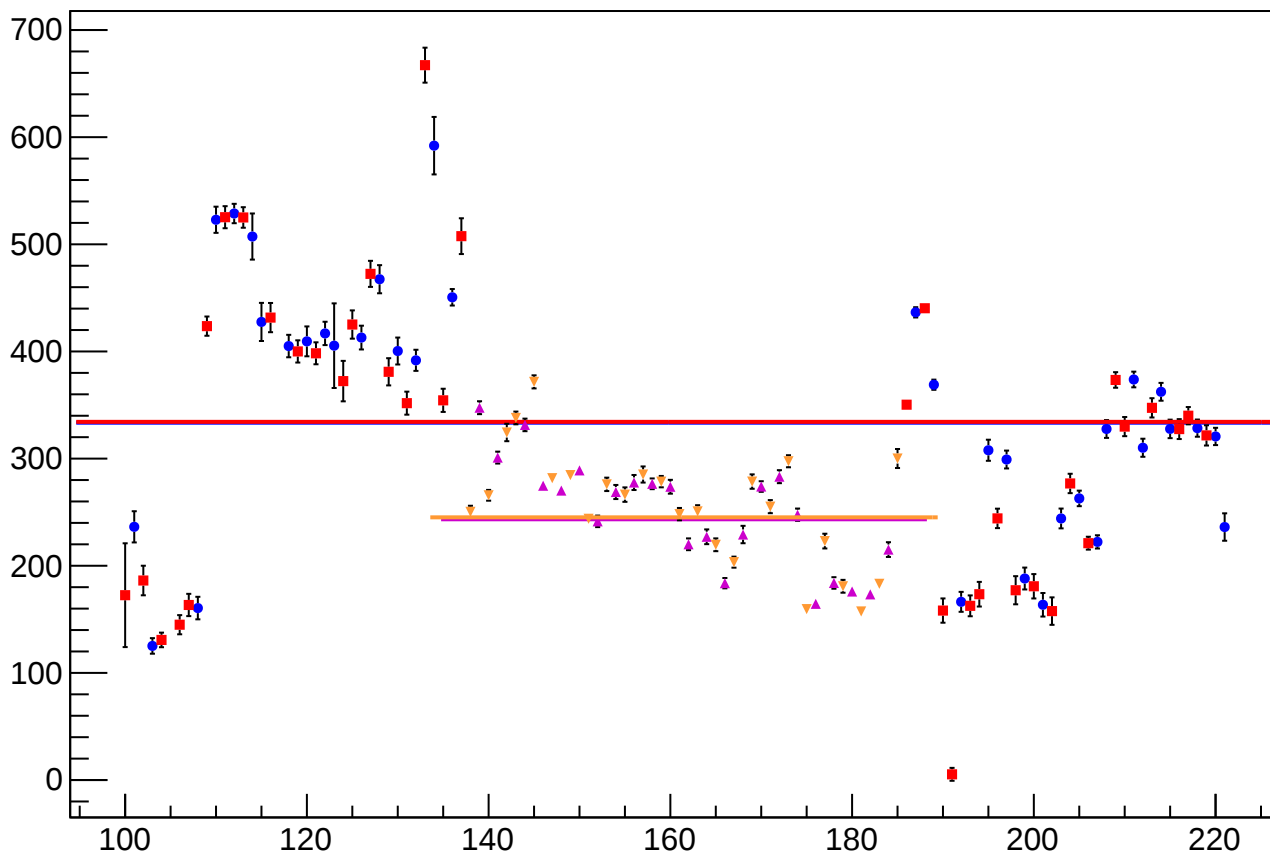
Right: 13.804+/-0.890 χ^2/NDF : 1286.2/71

In: 5.087+/-0.709 χ^2/NDF : 1285.5/57

Out: 6.455+/-0.668 χ^2/NDF : 1390.2/61

All: 5.812+/-0.486 χ^2/NDF : 2677.6/119

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 333.524 $\pm$ 1.508 χ^2 /NDF: 4548.2/34

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF: 2597.4/24

Right Out: 334.309 $\pm$ 1.275 χ^2 /NDF: 10102.4/36

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF: 2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

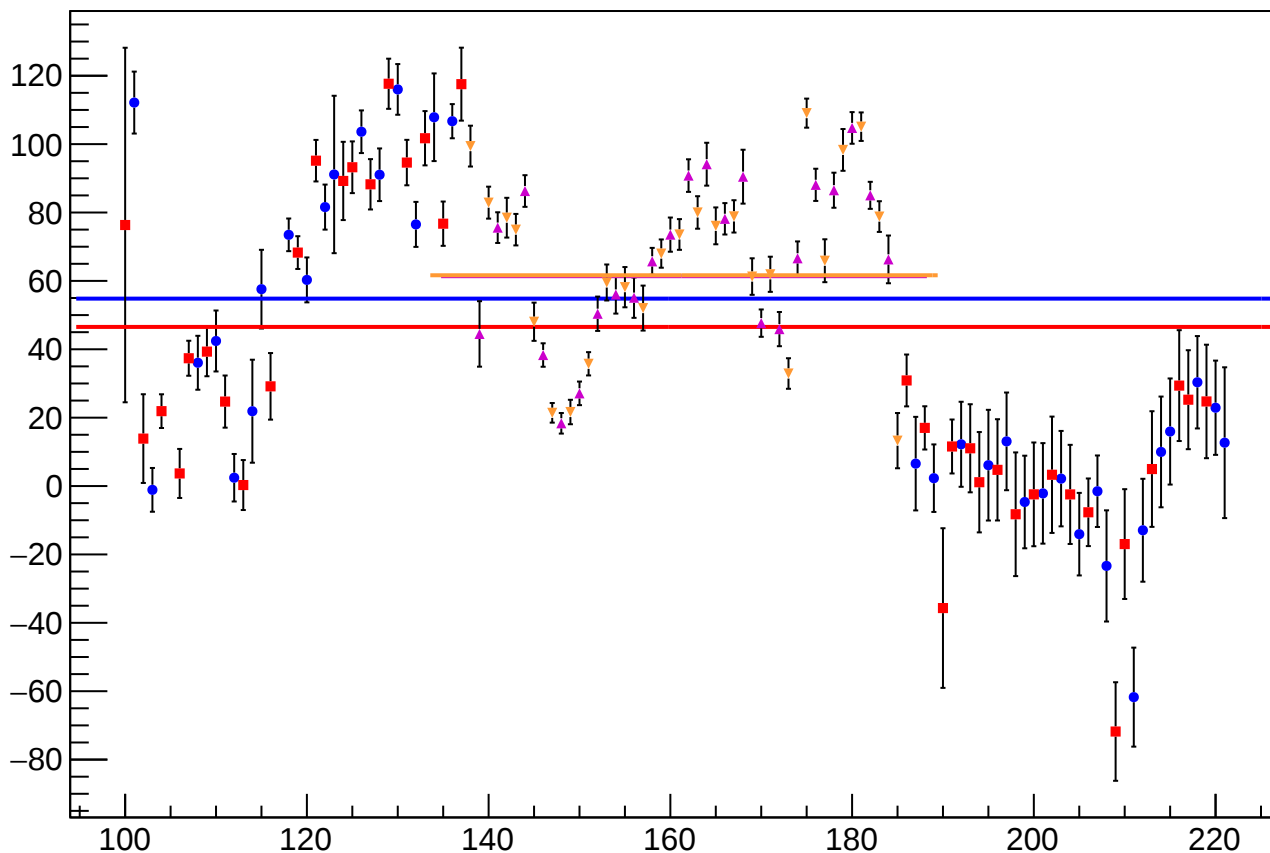
Right: 333.982 $\pm$ 0.973 χ^2 /NDF: 14650.8/71

In: 274.452 $\pm$ 0.885 χ^2 /NDF: 9128.2/57

Out: 282.512 $\pm$ 0.825 χ^2 /NDF: 15541.9/61

All: 278.766 $\pm$ 0.603 χ^2 /NDF: 24714.4/119

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 54.816 $\pm$ 1.551 χ^2/NDF : 822.6/34

Left Out: 61.647 $\pm$ 0.936 χ^2/NDF :871.5/24

Right Out: 46.541 $\pm$ 1.413 χ^2/NDF : 797.4/36

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

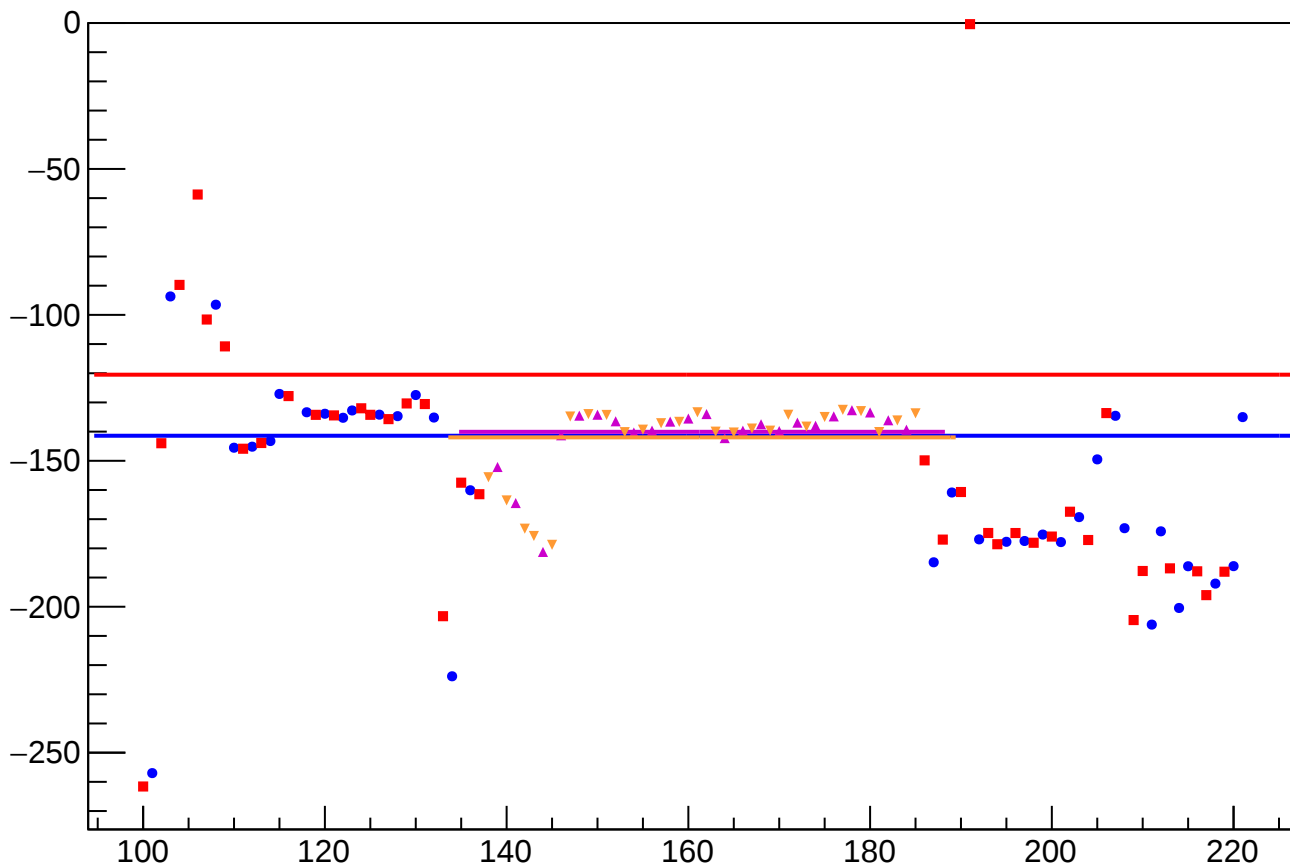
Right: 50.295 $\pm$ 1.045 χ^2/NDF : 1635.6/71

In: 59.556 $\pm$ 0.817 χ^2/NDF :1535.2/57

Out: 57.041 $\pm$ 0.781 χ^2/NDF :1748.4/61

All: 58.241 $\pm$ 0.564 χ^2/NDF : 3288.5/119

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.413 ± 0.074 $\chi^2/\text{NDF}: 263501.7/34$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -120.496 ± 0.066 $\chi^2/\text{NDF}: 658464.4/36$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

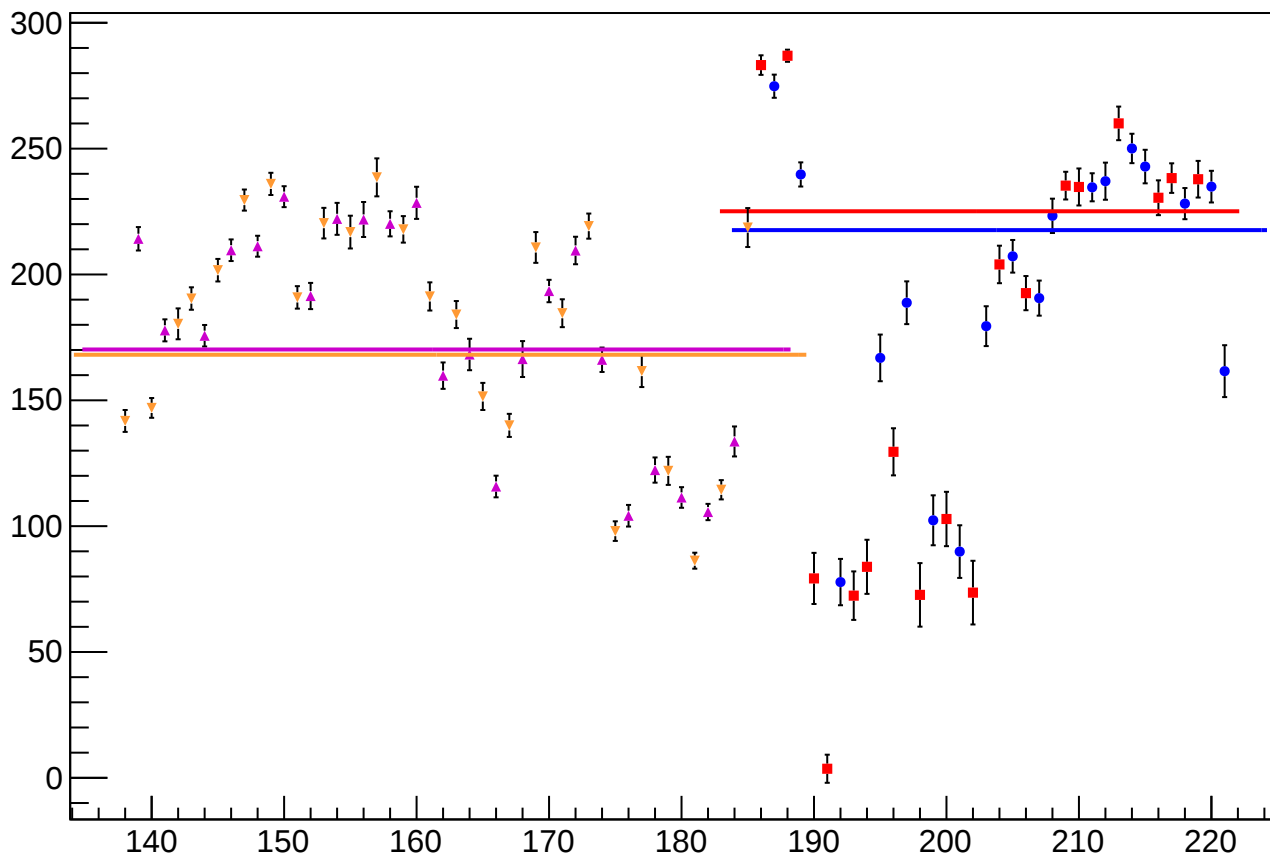
Right: -129.812 ± 0.049 $\chi^2/\text{NDF}: 966547.6/71$

In: -140.433 ± 0.038 $\chi^2/\text{NDF}: 311774.6/57$

Out: -135.232 ± 0.037 $\chi^2/\text{NDF}: 811112.4/61$

All: -137.737 ± 0.027 $\chi^2/\text{NDF}: 1132386.0/111$

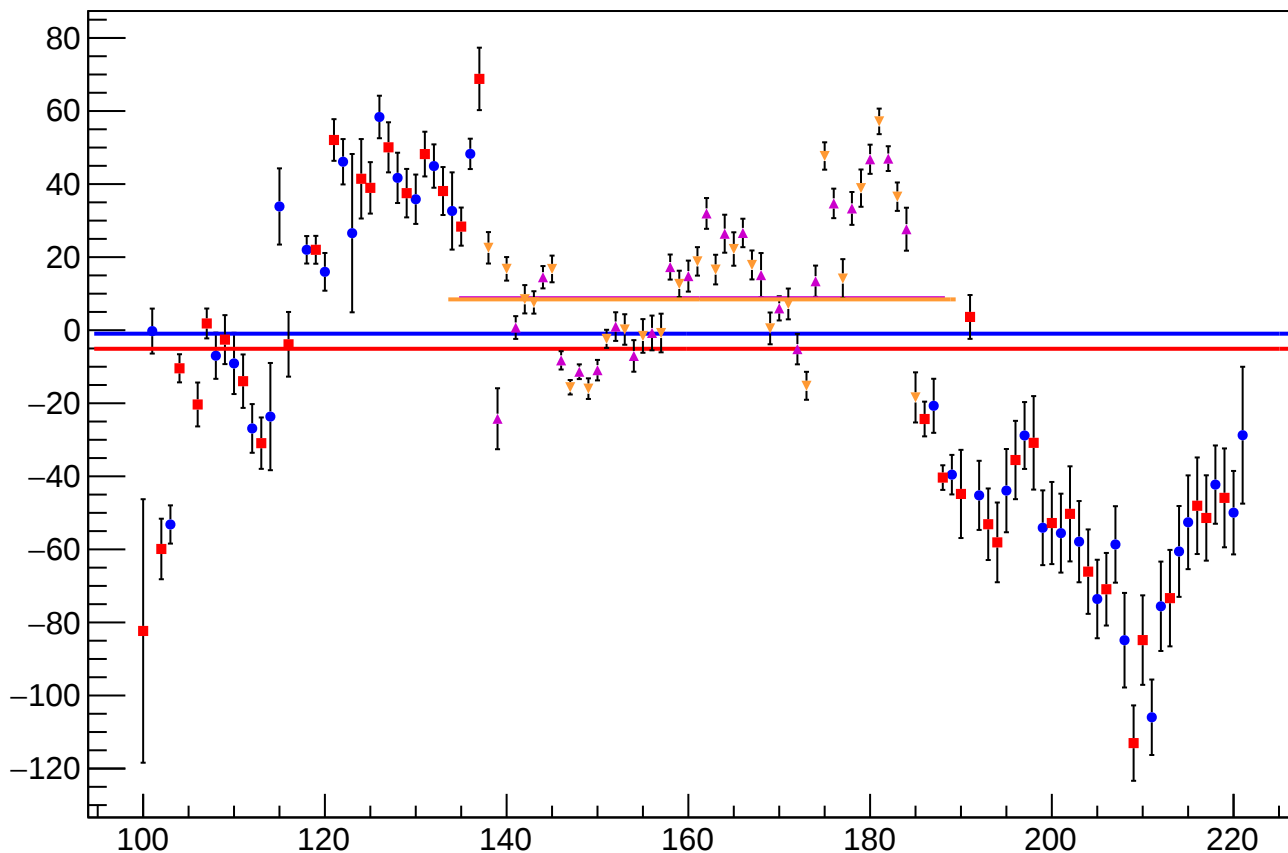
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.626 $\pm$ 1.597 χ^2 /NDF: 875.0/17
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 225.114 $\pm$ 1.394 χ^2 /NDF: 3678.3/17
 Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47
 Right: 221.874 $\pm$ 1.050 χ^2 /NDF: 4565.7/35
 In: 183.472 $\pm$ 0.845 χ^2 /NDF:3534.8/40
 Out: 186.705 $\pm$ 0.796 χ^2 /NDF:7273.4/42
 All: 185.184 $\pm$ 0.579 χ^2 /NDF: 10816.0/83

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.953 ± 1.266 χ^2/NDF : 1134.7/34

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: -5.086 ± 1.126 χ^2/NDF : 1138.1/36

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

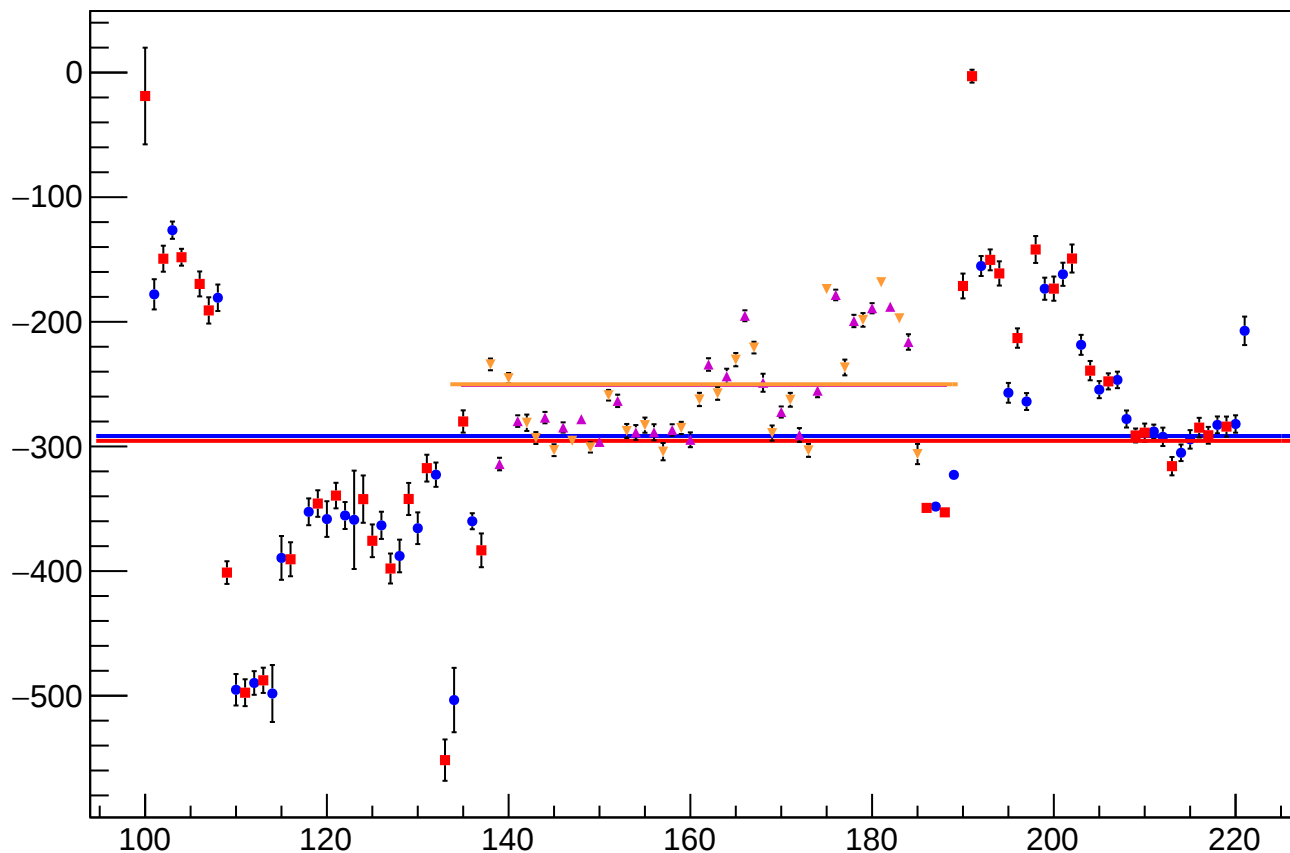
Right: -3.261 ± 0.841 χ^2/NDF : 2278.7/71

In: 6.203 ± 0.651 χ^2/NDF : 1804.9/57

Out: 4.449 ± 0.611 χ^2/NDF : 1991.8/61

All: 5.272 ± 0.446 χ^2/NDF : 3800.6/119

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -291.599 ± 1.323 χ^2/NDF : 3195.3/34

Left Out: -250.119 ± 0.972 χ^2/NDF : 2246.9/24

Right Out: -295.500 ± 1.113 χ^2/NDF : 8123.3/36

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

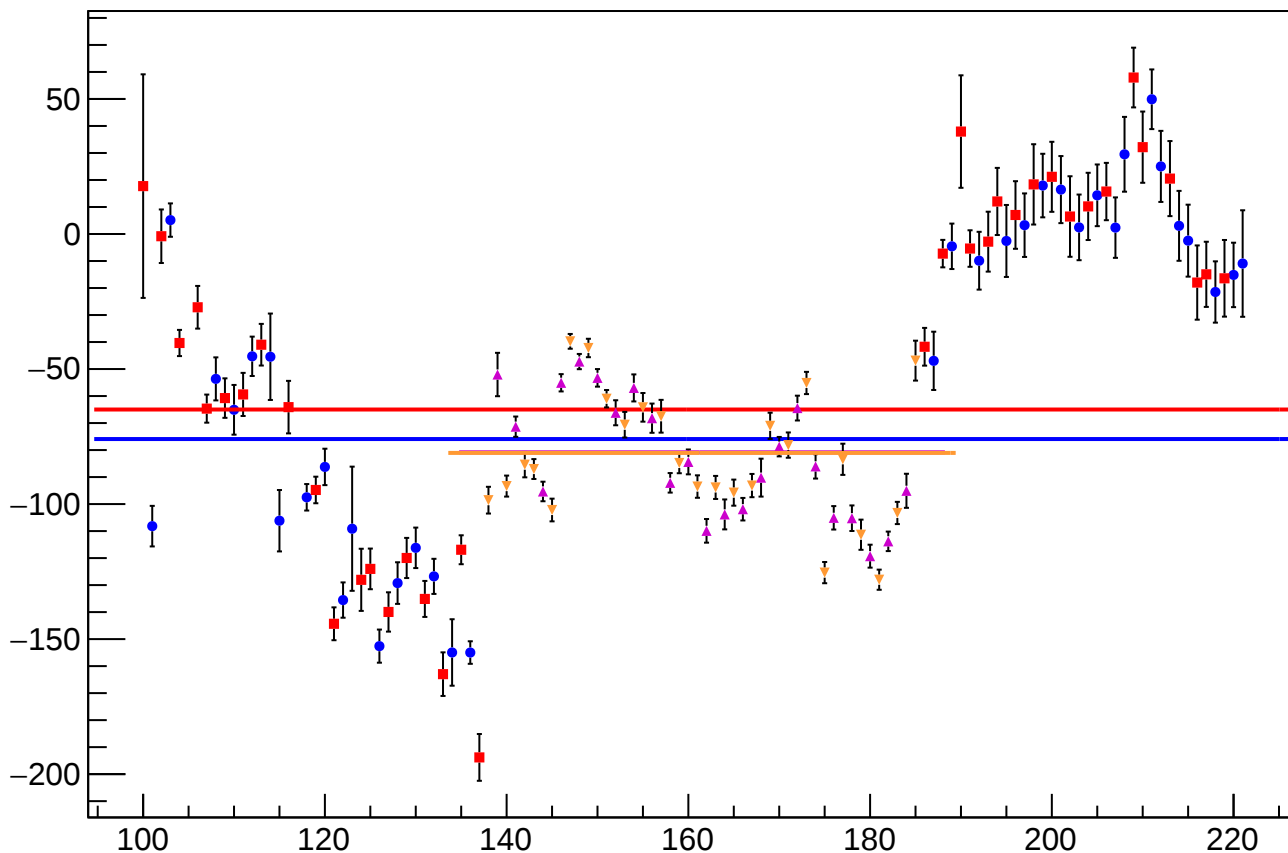
Right: -293.883 ± 0.852 χ^2/NDF : 11323.6/71

In: -265.348 ± 0.793 χ^2/NDF : 5747.2/57

Out: -269.762 ± 0.732 χ^2/NDF : 11313.1/61

All: -267.730 ± 0.538 χ^2/NDF : 17077.1/119

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.922 ± 1.461 χ^2/NDF : 1868.1/34

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -64.989 ± 1.342 χ^2/NDF : 1931.9/36

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

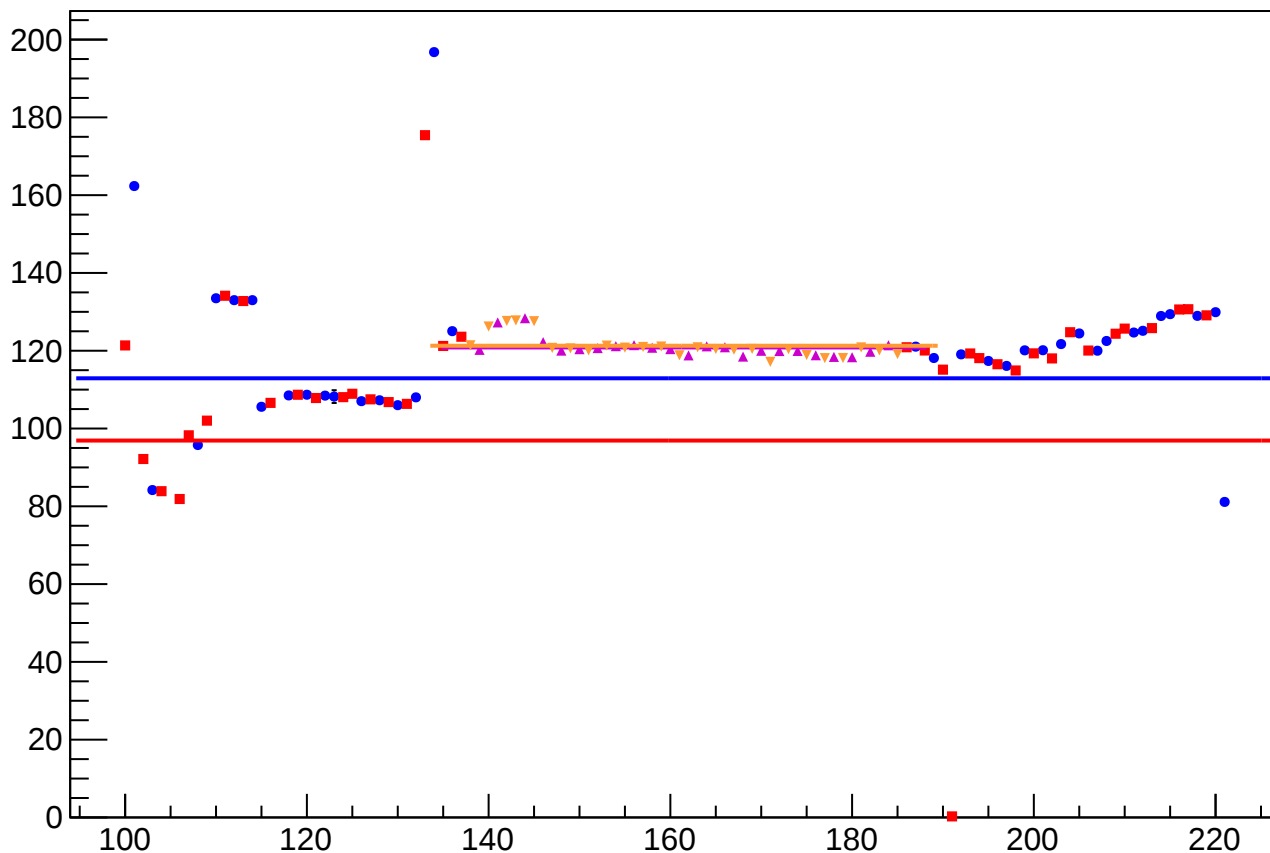
Right: -69.990 ± 0.988 χ^2/NDF : 3830.3/71

In: -79.544 ± 0.749 χ^2/NDF : 2569.5/57

Out: -76.509 ± 0.714 χ^2/NDF : 2947.7/61

All: -77.954 ± 0.517 χ^2/NDF : 5525.9/119

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.912 $\pm$ 0.068 χ^2 /NDF: 82994.9/34

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.906 $\pm$ 0.061 χ^2 /NDF: 376441.4/36

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

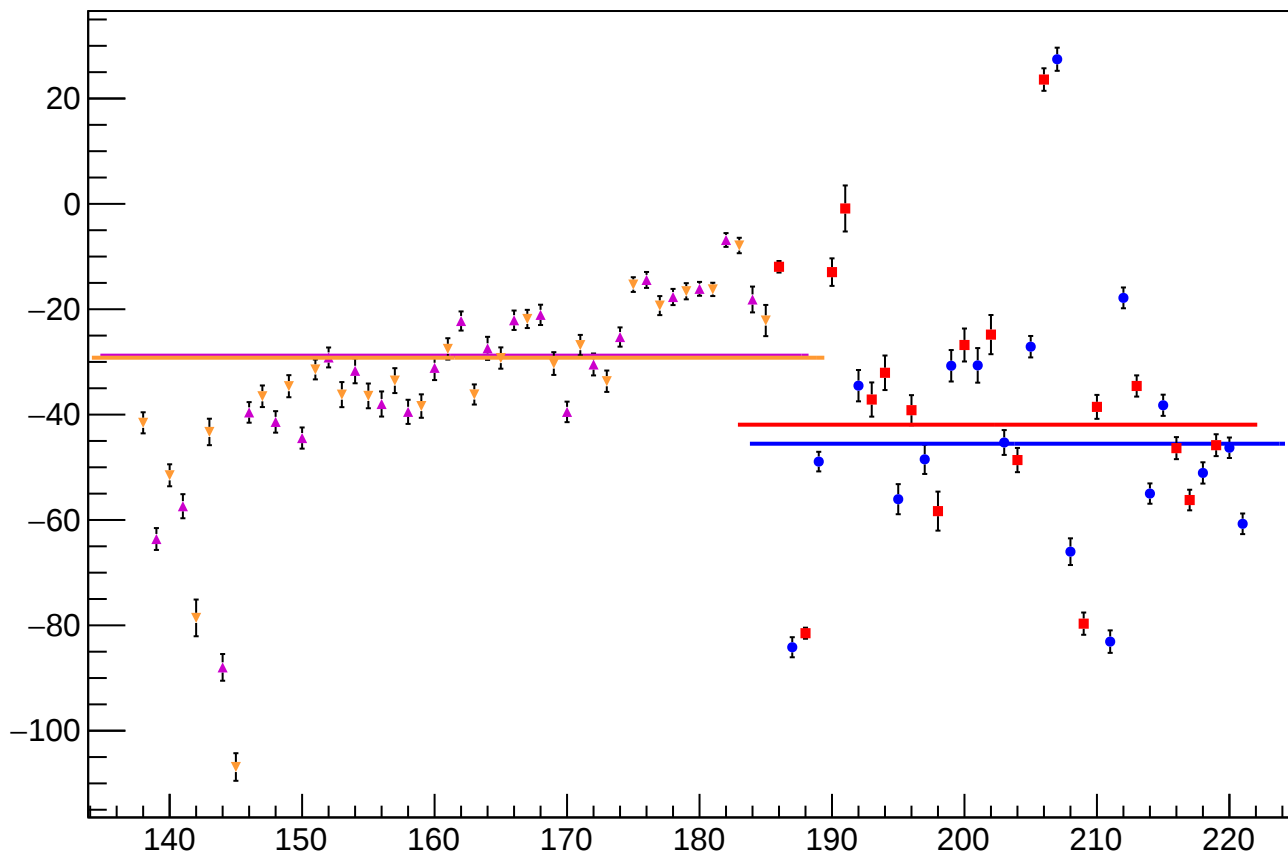
Right: 104.029 $\pm$ 0.045 χ^2 /NDF: 490194.6/71

In: 118.751 $\pm$ 0.035 χ^2 /NDF: 96382.7/57

Out: 113.907 $\pm$ 0.033 χ^2 /NDF: 493187.9/61

All: 116.228 $\pm$ 0.024 χ^2 /NDF: 599595.0/119

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.525 ± 0.521 χ^2/NDF : 2349.7/17

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -41.912 ± 0.483 χ^2/NDF : 3799.6/17

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

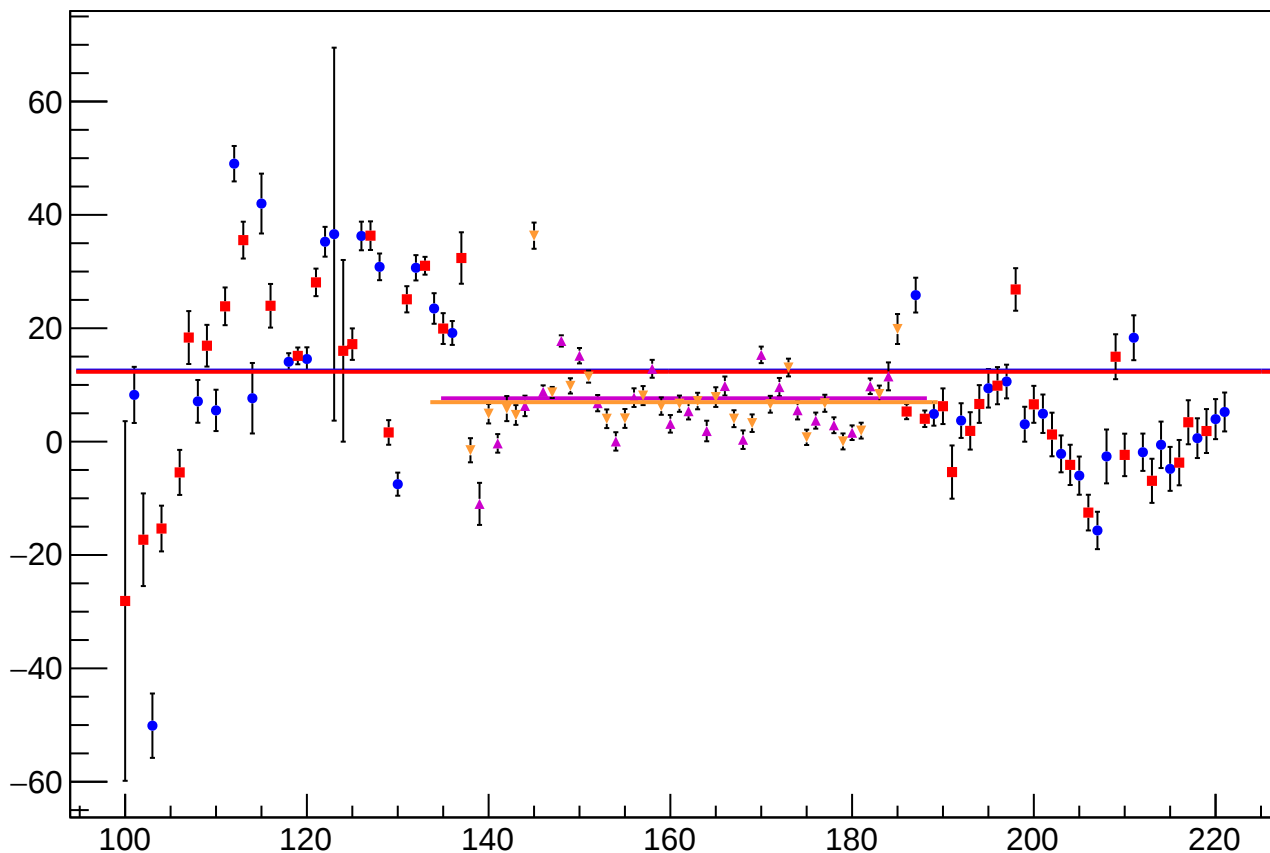
Right: -43.581 ± 0.354 χ^2/NDF : 6175.2/35

In: -34.914 ± 0.315 χ^2/NDF : 4766.4/40

Out: -34.195 ± 0.303 χ^2/NDF : 6101.8/42

All: -34.540 ± 0.218 χ^2/NDF : 10870.8/83

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.533 ± 0.498 χ^2/NDF : 975.8/34

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 12.326 ± 0.463 χ^2/NDF : 790.3/36

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

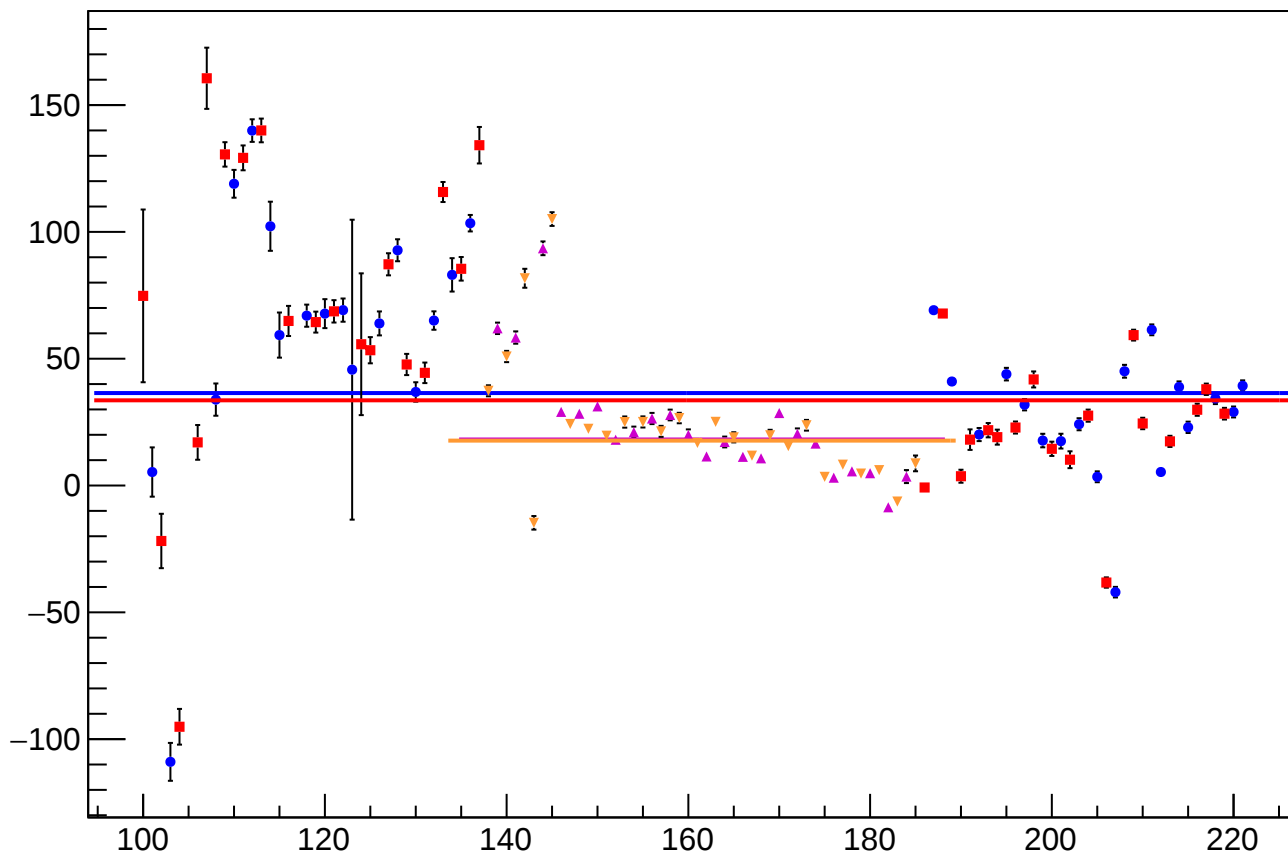
Right: 12.422 ± 0.339 χ^2/NDF : 1766.2/71

In: 9.026 ± 0.265 χ^2/NDF : 1382.7/57

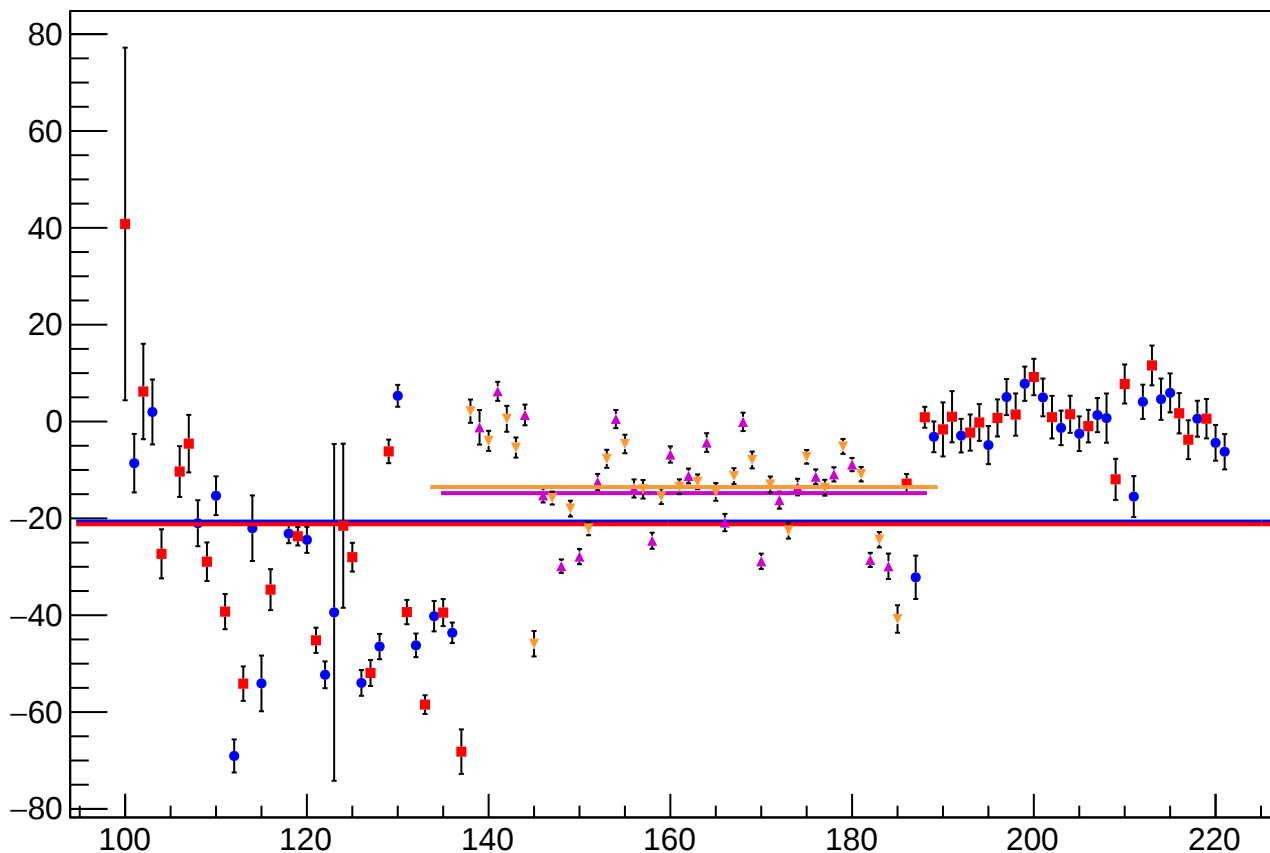
Out: 8.570 ± 0.253 χ^2/NDF : 1205.7/61

All: 8.787 ± 0.183 χ^2/NDF : 2589.9/119

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -20.660 ± 0.572 $\chi^2/\text{NDF}: 1582.8/34$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -21.216 ± 0.553 $\chi^2/\text{NDF}: 1611.9/36$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

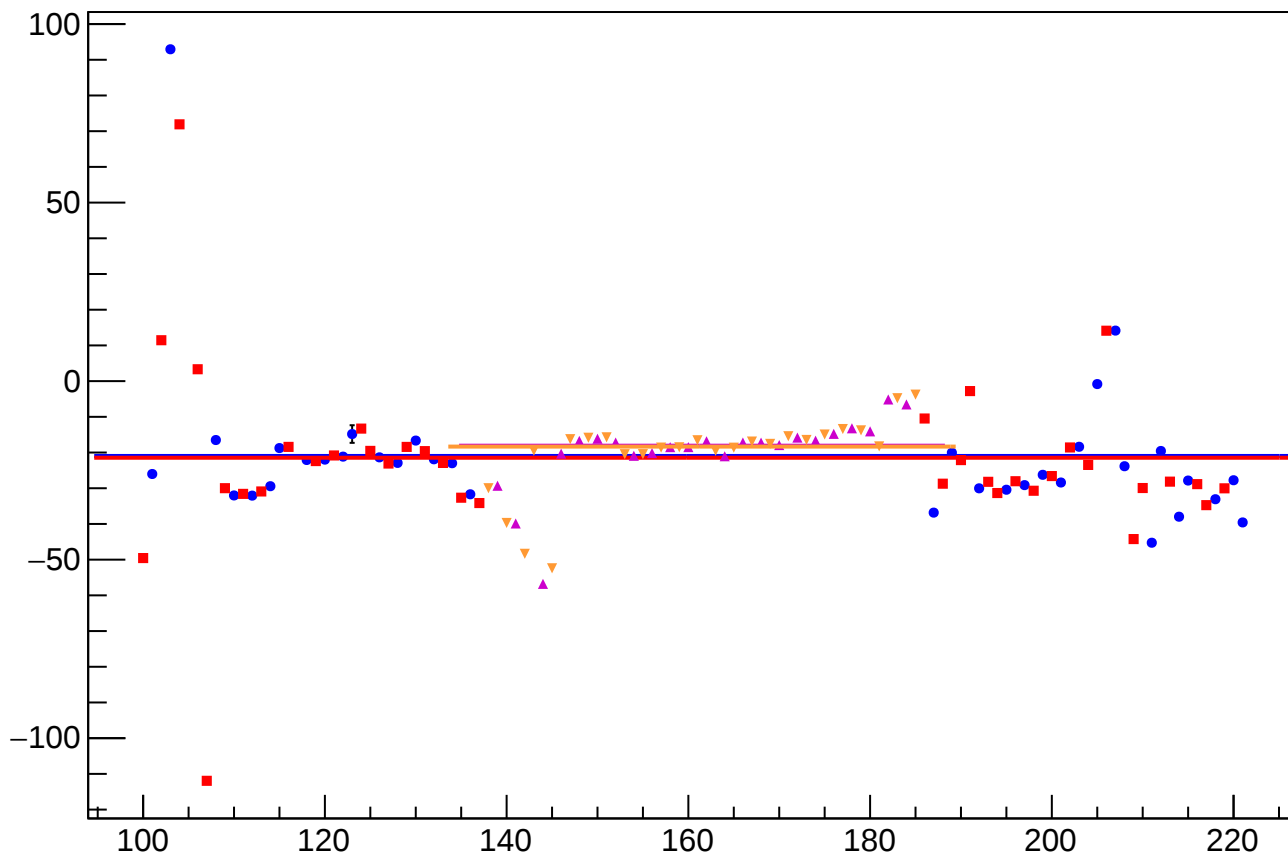
Right: -20.948 ± 0.397 $\chi^2/\text{NDF}: 3195.2/71$

In: -16.409 ± 0.301 $\chi^2/\text{NDF}: 2497.3/57$

Out: -15.678 ± 0.292 $\chi^2/\text{NDF}: 2324.2/61$

All: -16.033 ± 0.210 $\chi^2/\text{NDF}: 4824.5/119$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.959 ± 0.028 $\chi^2/\text{NDF}: 631442.6/34$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -21.457 ± 0.027 $\chi^2/\text{NDF}: 584818.5/36$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

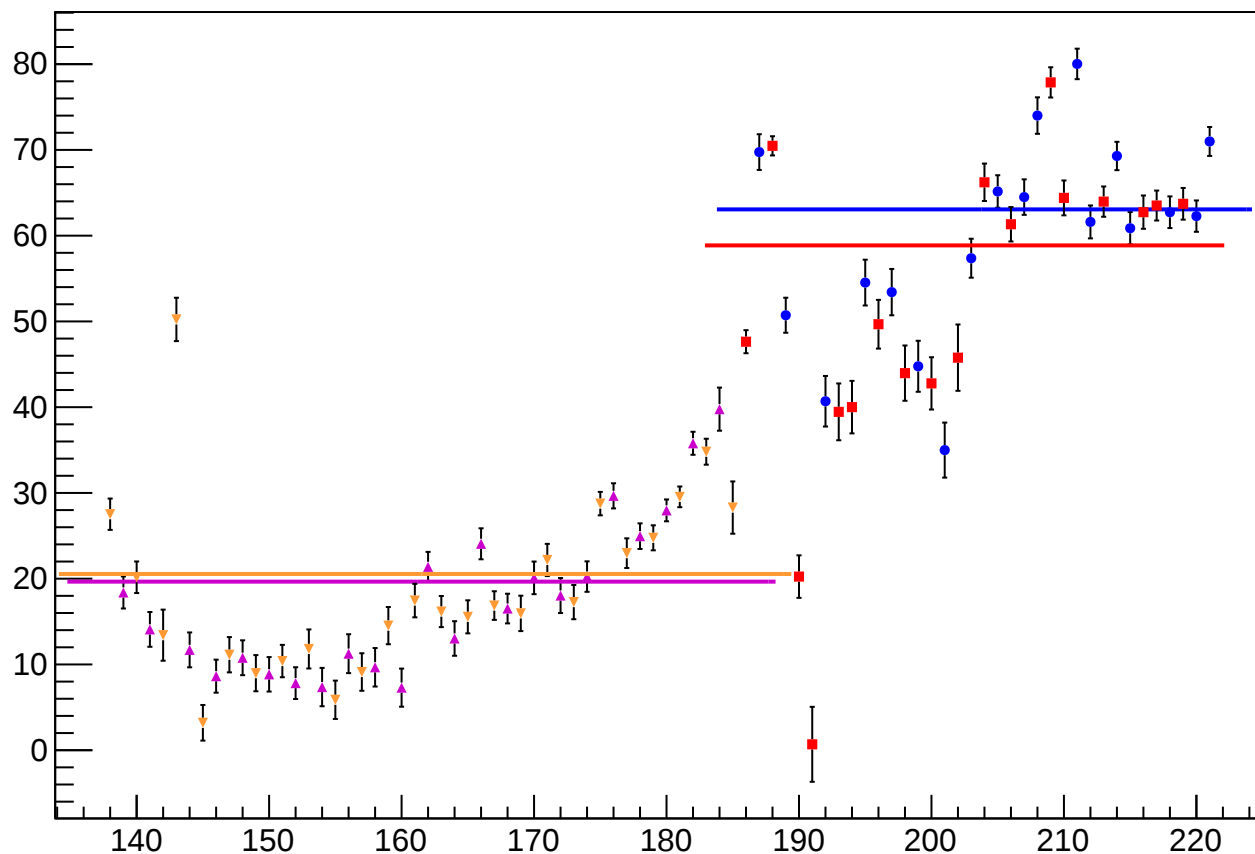
Right: -21.214 ± 0.019 $\chi^2/\text{NDF}: 1216426.5/71$

In: -18.809 ± 0.014 $\chi^2/\text{NDF}: 881462.0/57$

Out: -19.133 ± 0.014 $\chi^2/\text{NDF}: 878908.2/61$

All: -18.974 ± 0.010 $\chi^2/\text{NDF}: 1760645.1/119$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 63.064 $\pm$ 0.489 χ^2 /NDF: 405.6/17

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 58.865 $\pm$ 0.477 χ^2 /NDF: 903.7/17

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

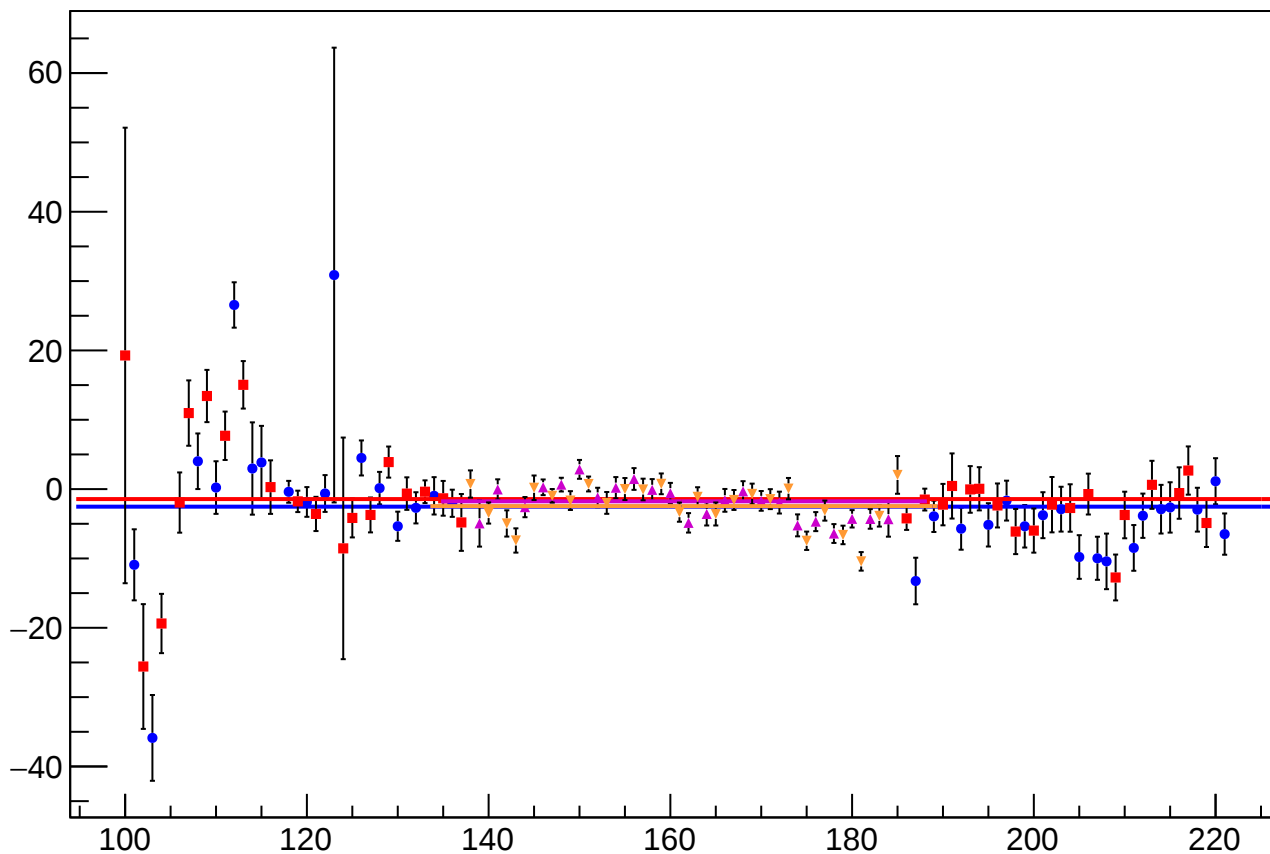
Right: 60.913 $\pm$ 0.342 χ^2 /NDF: 1347.0/35

In: 36.016 $\pm$ 0.300 χ^2 /NDF: 5884.8/40

Out: 35.082 $\pm$ 0.294 χ^2 /NDF: 5530.8/42

All: 35.539 $\pm$ 0.210 χ^2 /NDF: 11420.6/83

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.531 ± 0.494 χ^2/NDF : 165.7/34

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.437 ± 0.472 χ^2/NDF : 110.4/36

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

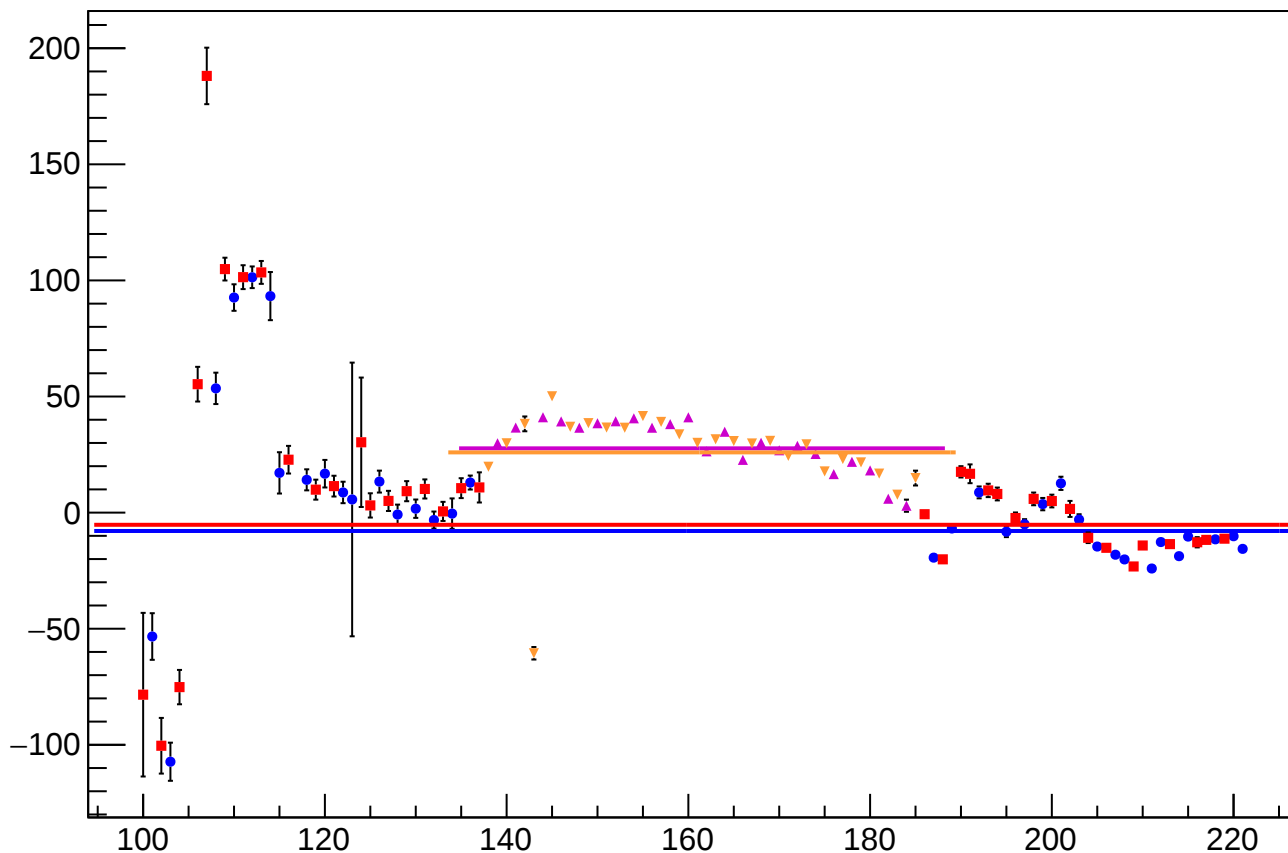
Right: -1.959 ± 0.341 χ^2/NDF : 278.6/71

In: -1.969 ± 0.258 χ^2/NDF : 234.9/57

Out: -2.173 ± 0.248 χ^2/NDF : 219.7/61

All: -2.074 ± 0.179 χ^2/NDF : 454.9/119

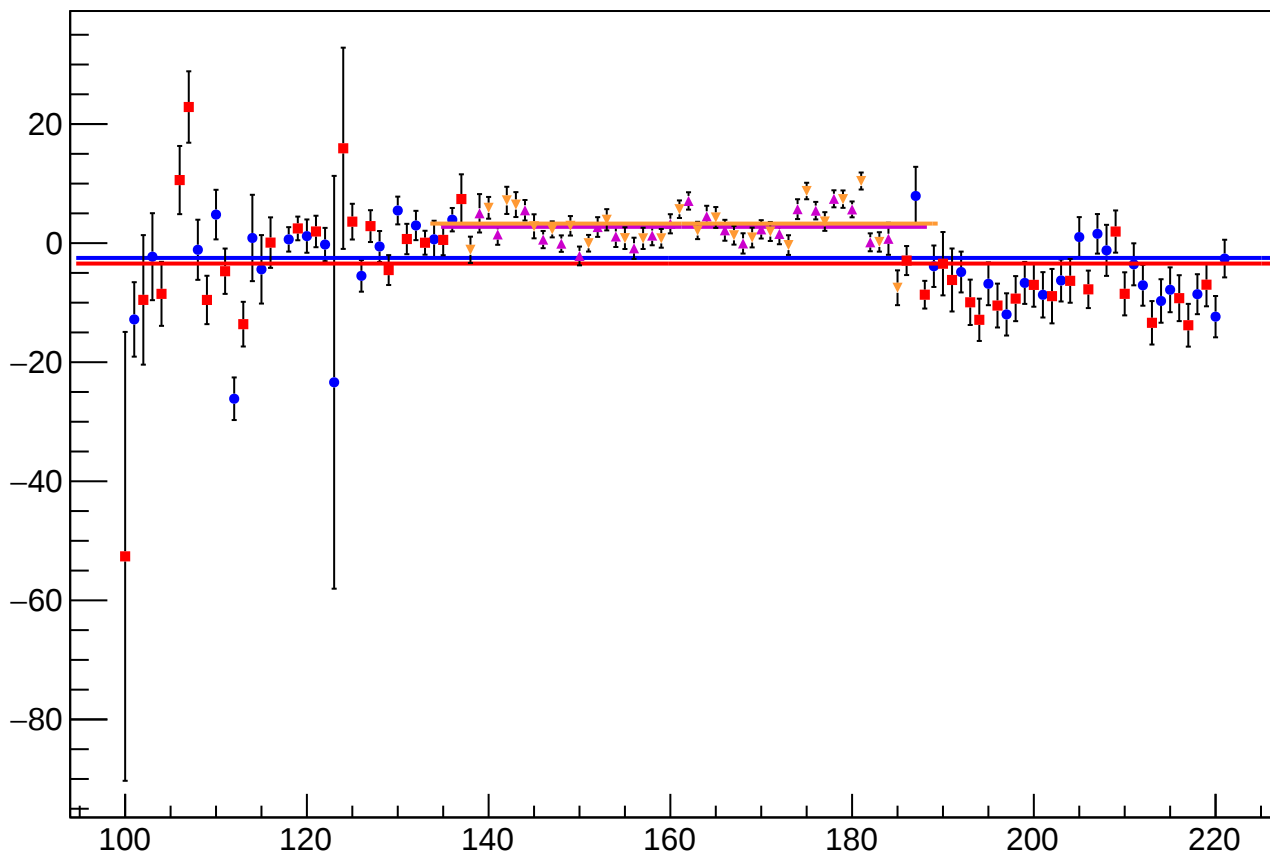
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.908 ± 0.451 $\chi^2/\text{NDF}: 1726.4/34$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -5.243 ± 0.418 $\chi^2/\text{NDF}: 2696.2/36$
 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: -6.474 ± 0.307 $\chi^2/\text{NDF}: 4441.3/71$
 In: 12.986 ± 0.290 $\chi^2/\text{NDF}: 6184.7/57$
 Out: 12.138 ± 0.278 $\chi^2/\text{NDF}: 7511.7/61$
 All: 12.544 ± 0.201 $\chi^2/\text{NDF}: 13700.8/119$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.485 ± 0.561 χ^2/NDF : 125.9/34

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.431 ± 0.555 χ^2/NDF : 128.5/36

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

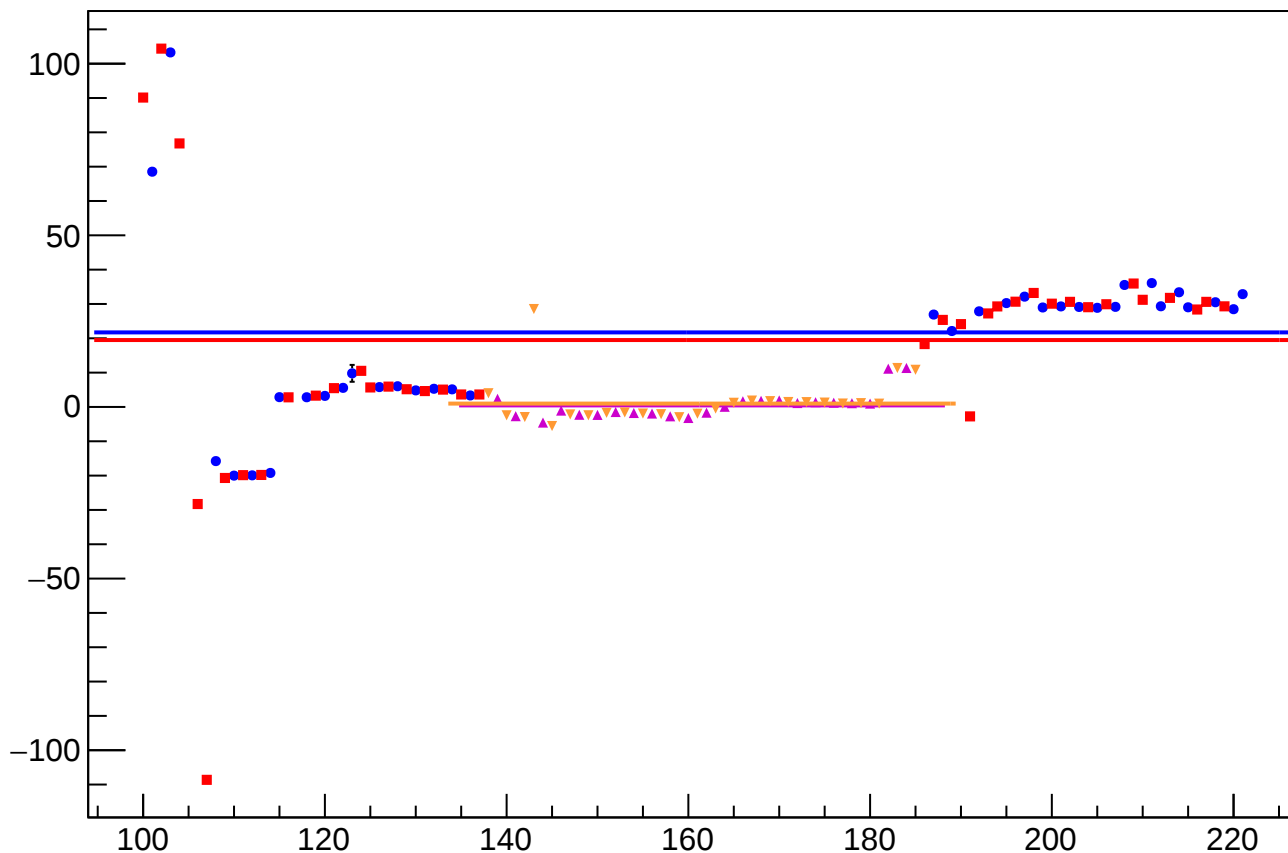
Right: -2.963 ± 0.395 χ^2/NDF : 255.8/71

In: 1.328 ± 0.292 χ^2/NDF : 253.6/57

Out: 1.520 ± 0.285 χ^2/NDF : 338.6/61

All: 1.426 ± 0.204 χ^2/NDF : 592.4/119

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.719 $\pm$ 0.027 χ^2 /NDF: 521082.4/34

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF:117391.3/24

Right Out: 19.491 $\pm$ 0.027 χ^2 /NDF: 751955.1/36

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF:50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

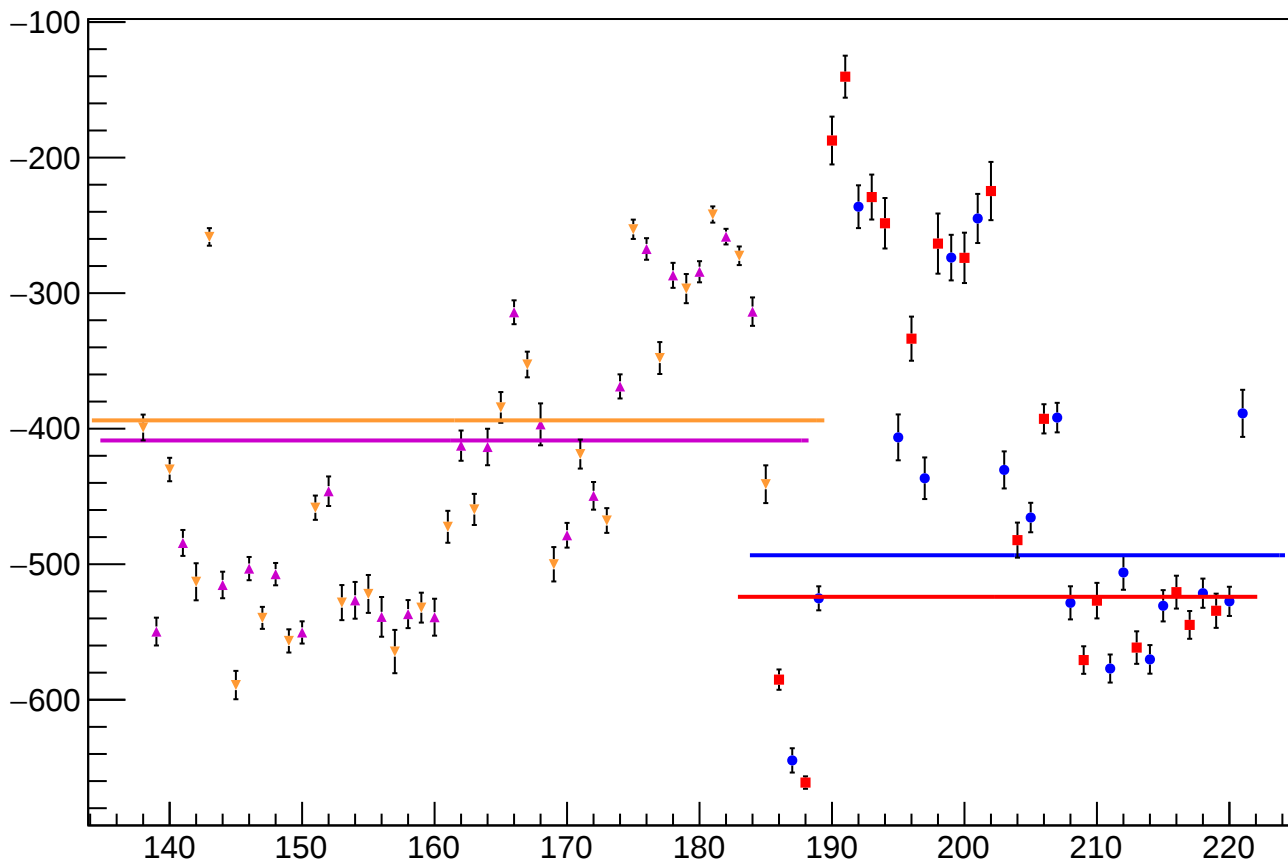
Right: 20.592 $\pm$ 0.019 χ^2 /NDF: 1276513.4/71

In: 5.723 $\pm$ 0.013 χ^2 /NDF:1042643.4/57

Out: 5.541 $\pm$ 0.013 χ^2 /NDF:1235312.1/61

All: 5.631 $\pm$ 0.009 χ^2 /NDF: 2278049.4/119

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -493.387 ± 2.829 χ^2/NDF : 1267.5/17

Left Out: -393.871 ± 1.897 χ^2/NDF : 3772.8/24

Right Out: -524.047 ± 2.586 χ^2/NDF : 3313.5/17

Left In: -408.696 ± 1.979 χ^2/NDF : 3062.9/22

Left: -400.970 ± 1.369 χ^2/NDF : 6864.9/47

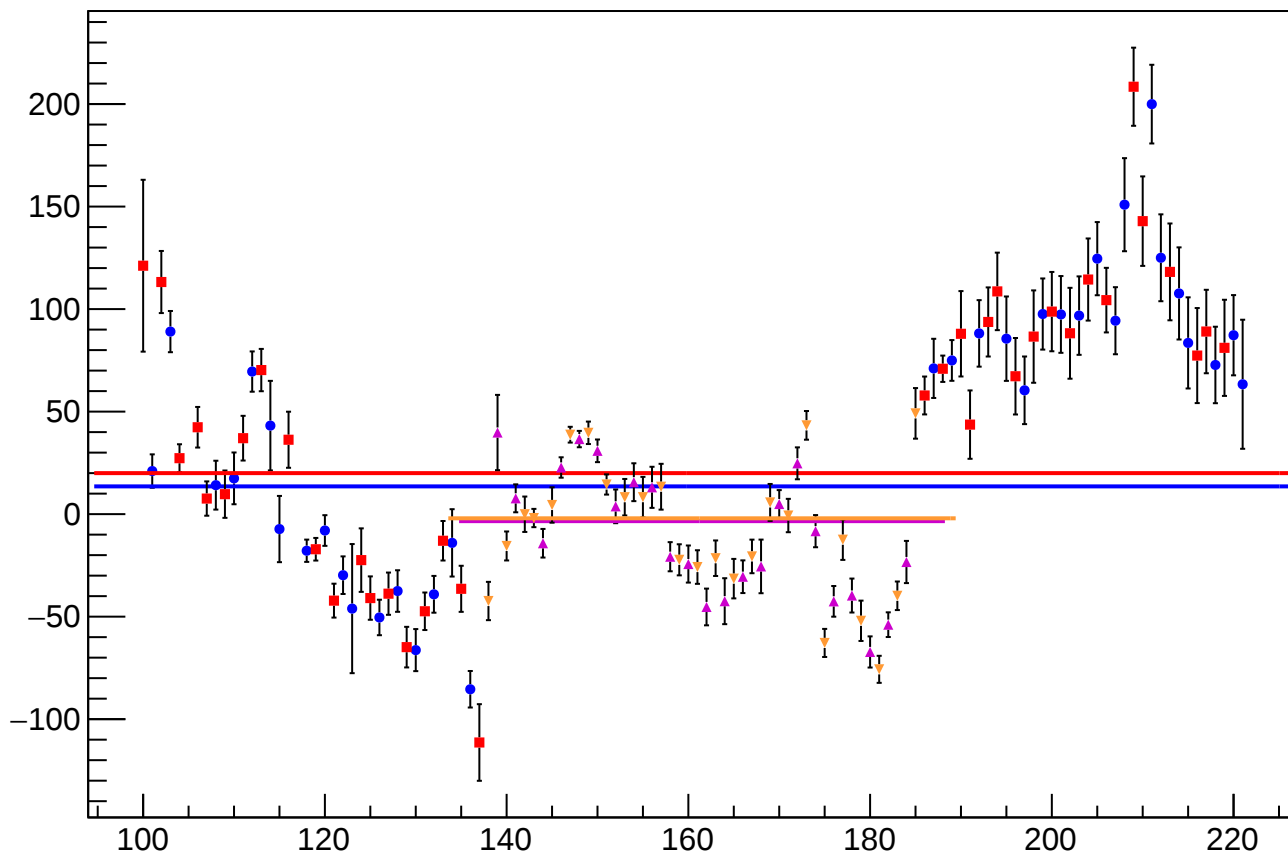
Right: -510.092 ± 1.909 χ^2/NDF : 4645.0/35

In: -436.523 ± 1.622 χ^2/NDF : 4932.1/40

Out: -439.422 ± 1.530 χ^2/NDF : 8734.0/42

All: -438.057 ± 1.113 χ^2/NDF : 13667.8/83

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.531+/-2.047 χ^2/NDF : 896.4/34

Left Out: -2.037+/-1.424 χ^2/NDF : 563.8/24

Right Out: 20.000+/-1.915 χ^2/NDF : 866.6/36

Left In: -3.420+/-1.520 χ^2/NDF : 451.0/22

Left: -2.683+/-1.039 χ^2/NDF : 1015.2/47

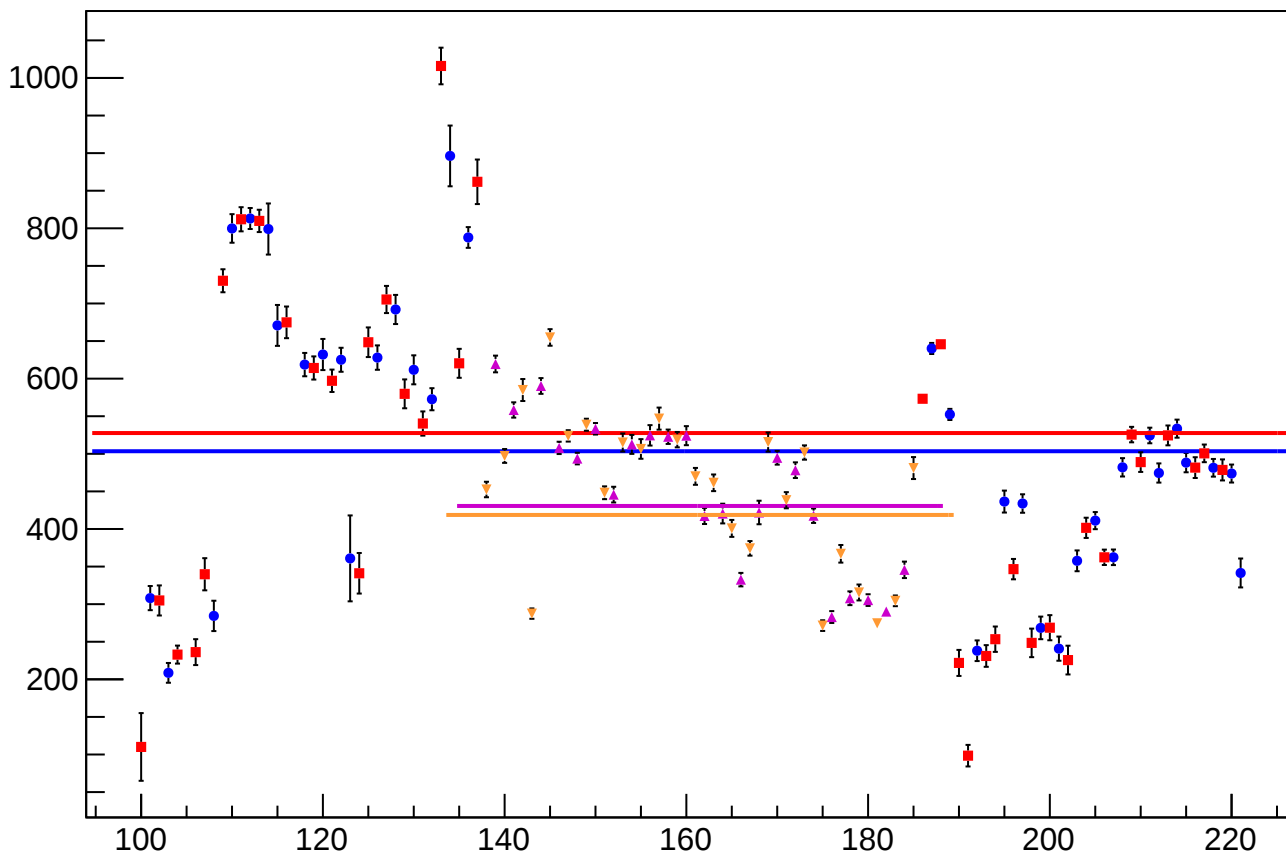
Right: 16.981+/-1.399 χ^2/NDF : 1768.3/71

In: 2.604+/-1.220 χ^2/NDF : 1391.5/57

Out: 5.808+/-1.143 χ^2/NDF : 1515.7/61

All: 4.311+/-0.834 χ^2/NDF : 2910.9/119

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 503.442 $\pm$ 2.303 χ^2 /NDF: 4288.8/34

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 527.637 $\pm$ 2.023 χ^2 /NDF: 7118.8/36

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

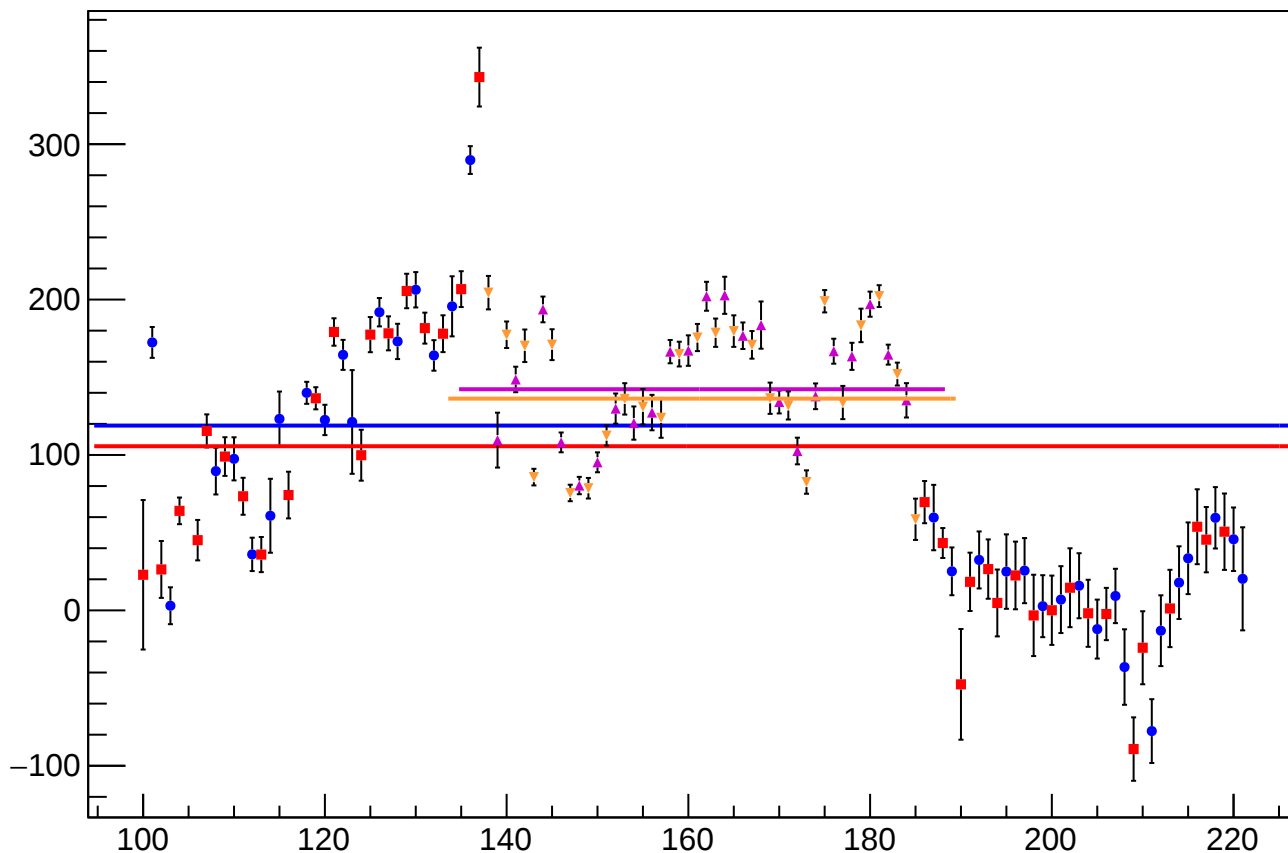
Right: 517.099 $\pm$ 1.520 χ^2 /NDF: 11469.9/71

In: 461.415 $\pm$ 1.497 χ^2 /NDF:7716.2/57

Out: 469.888 $\pm$ 1.387 χ^2 /NDF:11953.0/61

All: 465.976 $\pm$ 1.017 χ^2 /NDF: 19686.4/119

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 118.909 ± 2.372 $\chi^2/\text{NDF}: 1279.1/34$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 105.616 ± 2.266 $\chi^2/\text{NDF}: 1119.7/36$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

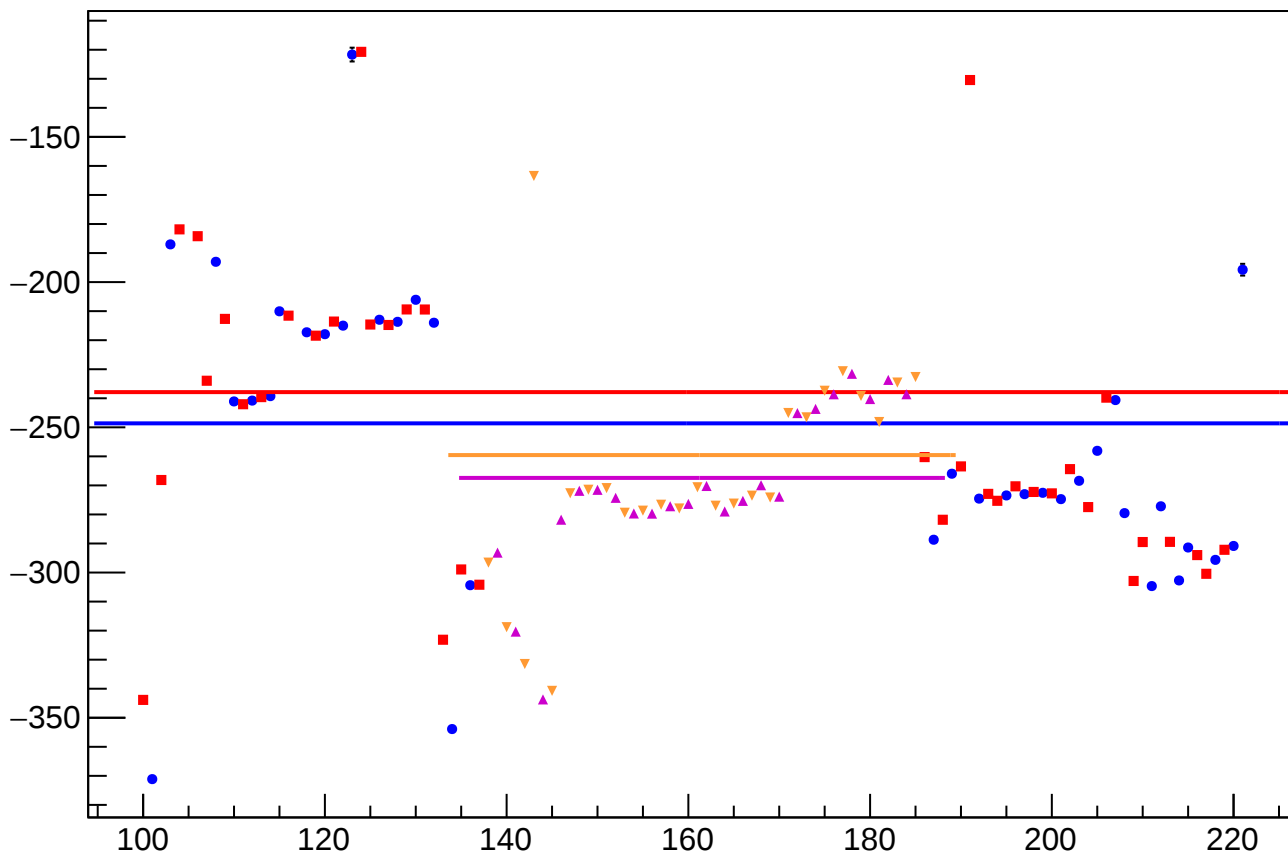
Right: 111.959 ± 1.639 $\chi^2/\text{NDF}: 2415.3/71$

In: 134.086 ± 1.405 $\chi^2/\text{NDF}: 1802.0/57$

Out: 125.634 ± 1.334 $\chi^2/\text{NDF}: 1997.5/61$

All: 129.641 ± 0.968 $\chi^2/\text{NDF}: 3818.4/119$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.633 ± 0.118 χ^2/NDF : 176211.0/34

Left Out: -259.557 ± 0.079 χ^2/NDF : 238235.2/24

Right Out: -237.880 ± 0.111 χ^2/NDF : 189121.1/36

Left In: -267.417 ± 0.082 χ^2/NDF : 98035.5/22

Left: -263.361 ± 0.057 χ^2/NDF : 341051.4/47

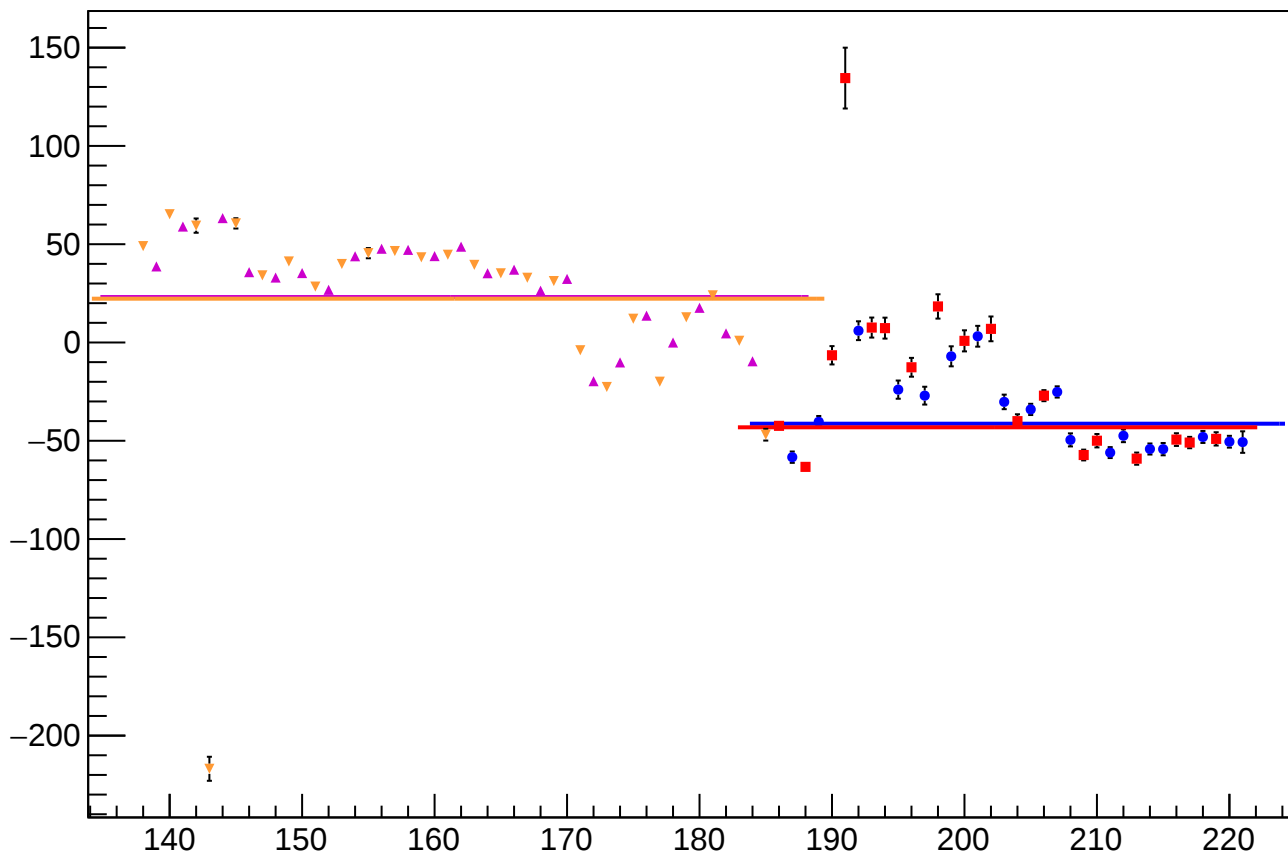
Right: -242.917 ± 0.081 χ^2/NDF : 369711.6/71

In: -261.365 ± 0.067 χ^2/NDF : 291289.3/57

Out: -252.276 ± 0.064 χ^2/NDF : 452586.6/61

All: -256.629 ± 0.047 χ^2/NDF : 753397.8/119

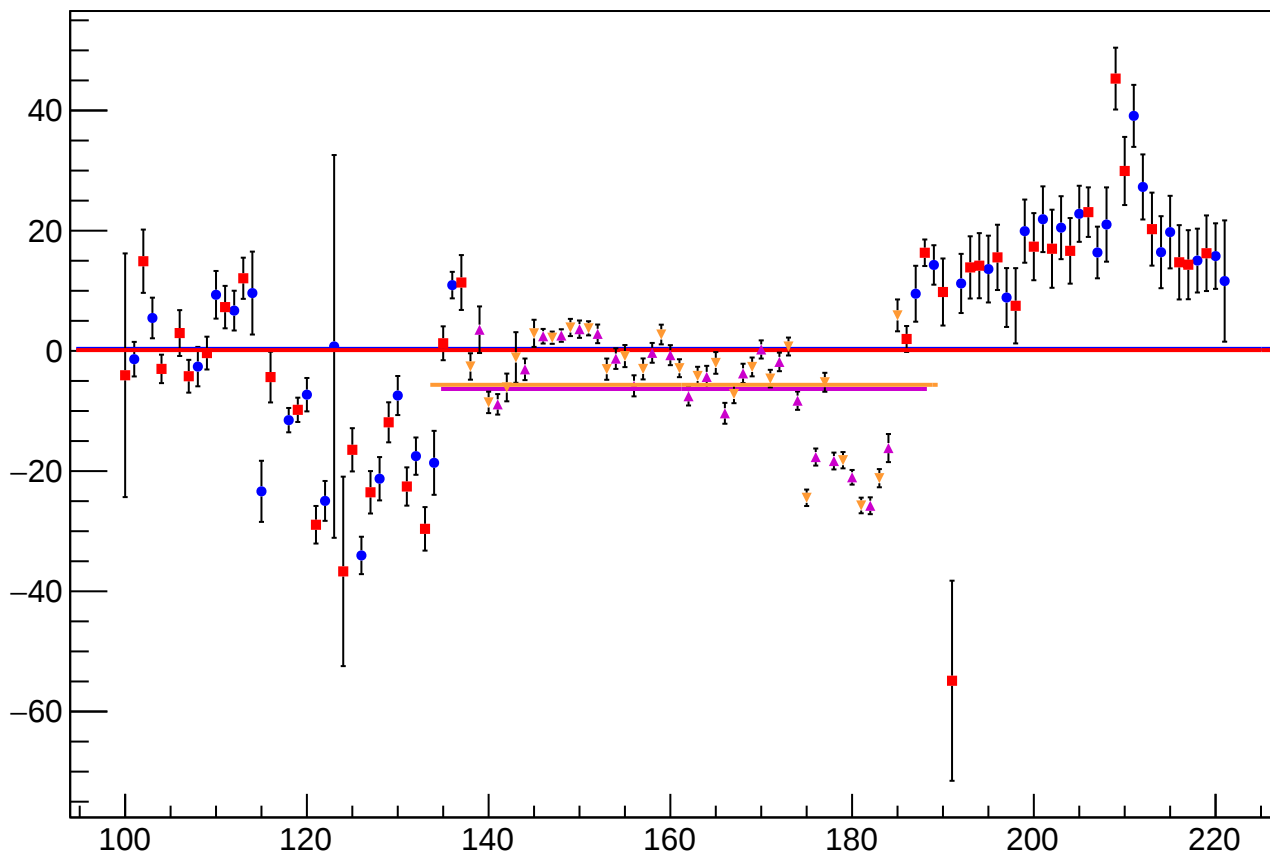
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.318 ± 0.801 $\chi^2/\text{NDF}: 412.2/17$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -43.153 ± 0.740 $\chi^2/\text{NDF}: 923.4/17$
 Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$
 Right: -42.308 ± 0.544 $\chi^2/\text{NDF}: 1338.4/35$
 In: 10.197 ± 0.359 $\chi^2/\text{NDF}: 8331.7/40$
 Out: 7.555 ± 0.351 $\chi^2/\text{NDF}: 12153.4/42$
 All: 8.847 ± 0.251 $\chi^2/\text{NDF}: 20512.8/83$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.338 ± 0.660 $\chi^2/\text{NDF}: 612.5/34$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: 0.132 ± 0.616 $\chi^2/\text{NDF}: 632.0/36$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

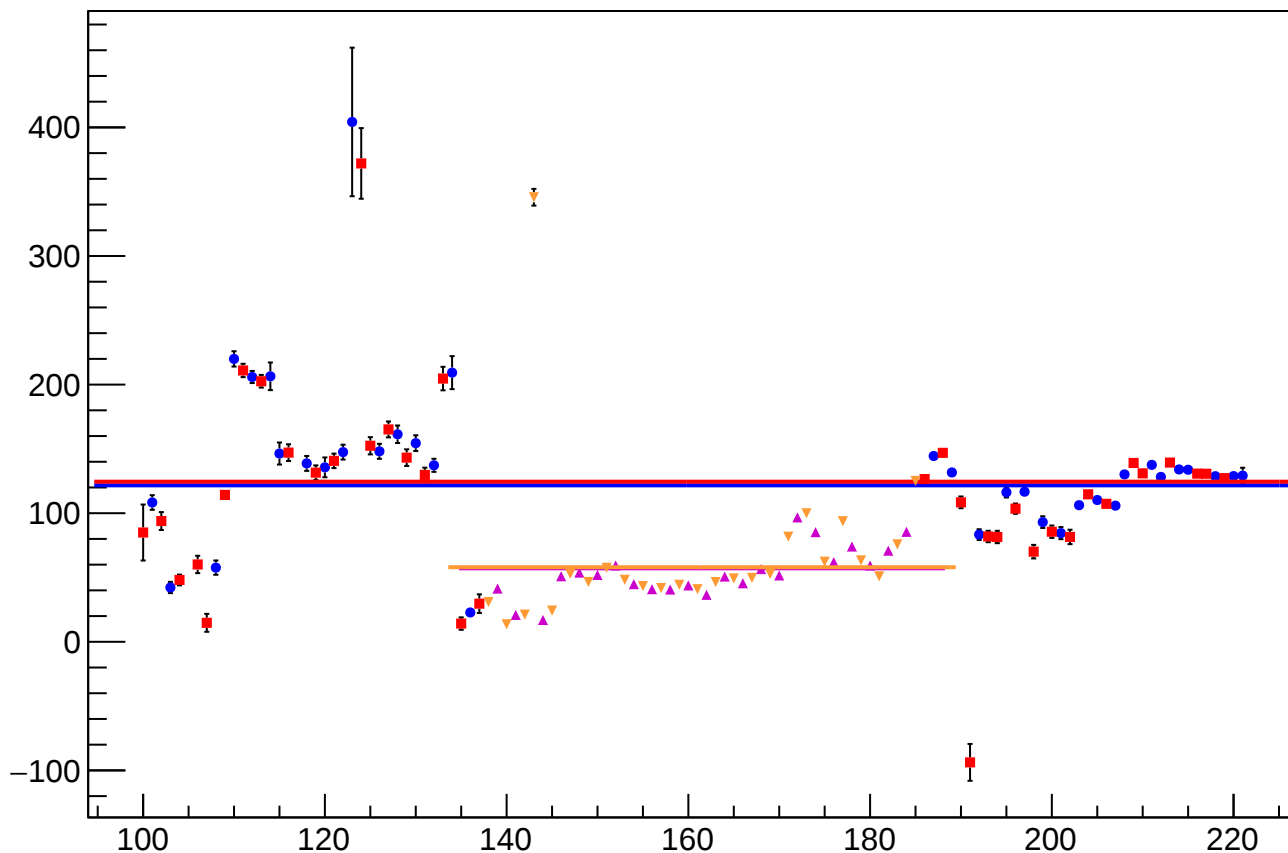
Right: 0.228 ± 0.450 $\chi^2/\text{NDF}: 1244.5/71$

In: -5.060 ± 0.289 $\chi^2/\text{NDF}: 1478.1/57$

Out: -4.442 ± 0.281 $\chi^2/\text{NDF}: 1595.3/61$

All: -4.742 ± 0.201 $\chi^2/\text{NDF}: 3075.7/119$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.657 $\pm$ 0.684 χ^2 /NDF: 2614.2/34

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.520 $\pm$ 0.603 χ^2 /NDF: 3279.8/36

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

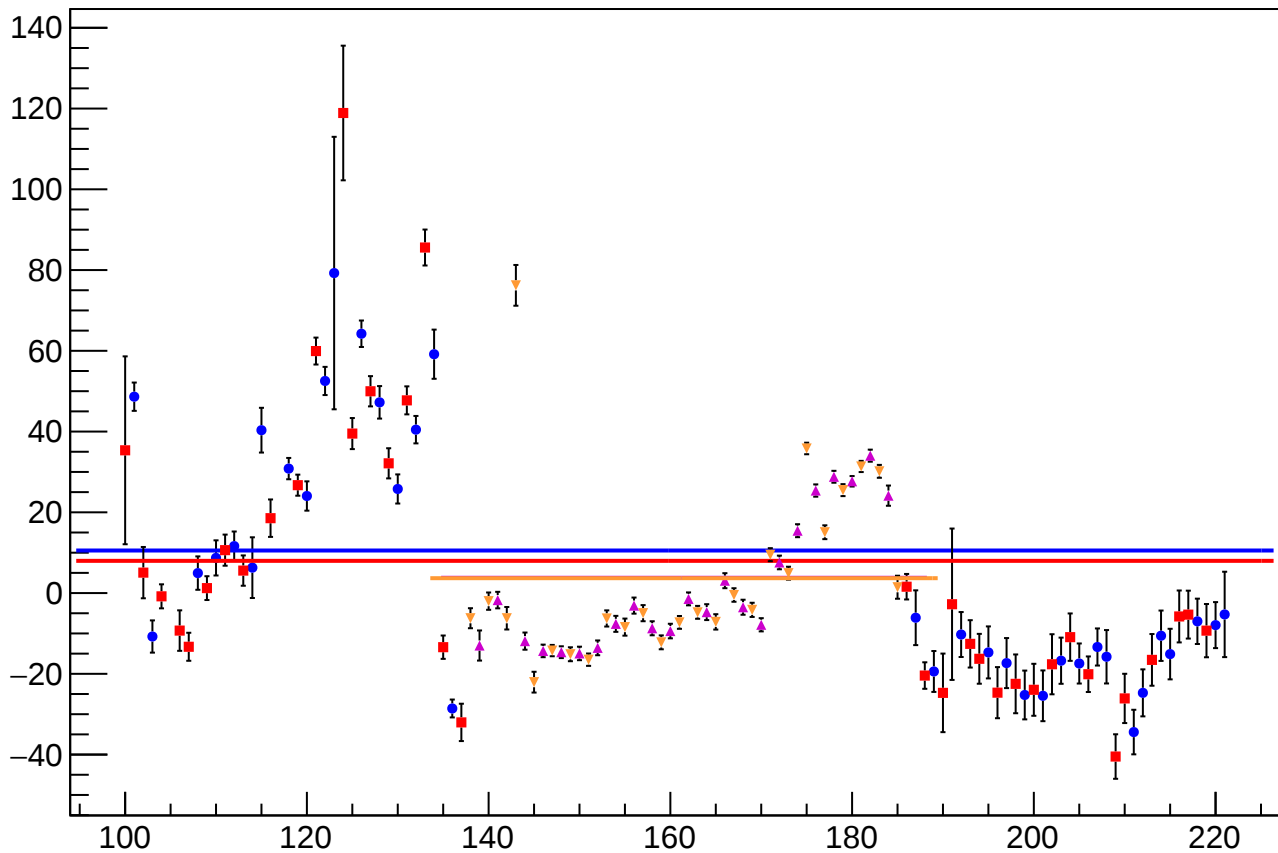
Right: 123.268 $\pm$ 0.452 χ^2 /NDF: 5903.9/71

In: 73.570 $\pm$ 0.345 χ^2 /NDF:11058.2/57

Out: 78.195 $\pm$ 0.332 χ^2 /NDF:16404.2/61

All: 75.971 $\pm$ 0.239 χ^2 /NDF: 27555.8/119

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.542 $\pm$ 0.755 χ^2 /NDF: 1632.4/34

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 7.981 $\pm$ 0.725 χ^2 /NDF: 1599.1/36

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

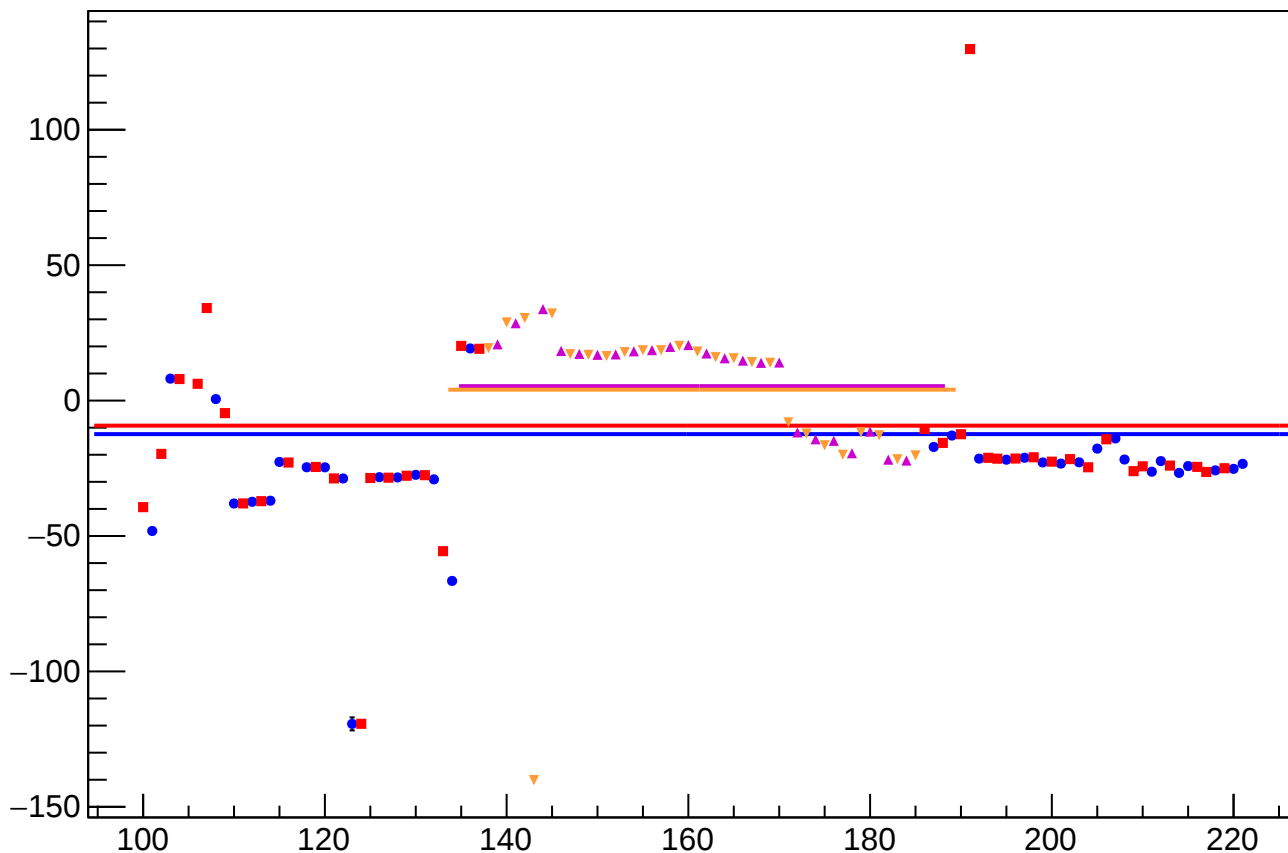
Right: 9.211 $\pm$ 0.523 χ^2 /NDF: 3237.5/71

In: 5.048 $\pm$ 0.326 χ^2 /NDF:3896.4/57

Out: 4.522 $\pm$ 0.320 χ^2 /NDF:4169.0/61

All: 4.780 $\pm$ 0.228 χ^2 /NDF: 8066.8/119

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.381 ± 0.036 χ^2/NDF : 310488.9/34

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.259 ± 0.035 χ^2/NDF : 403282.2/36

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

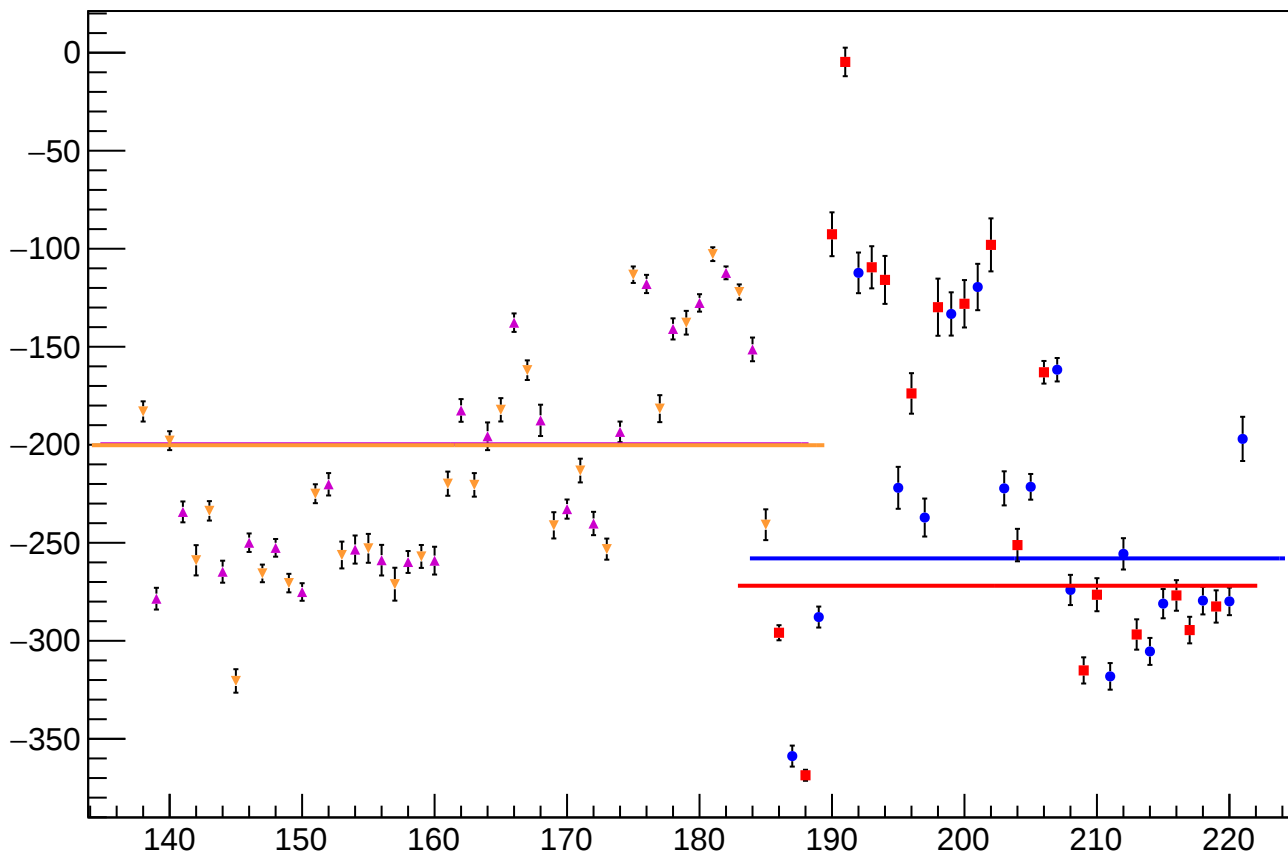
Right: -10.794 ± 0.025 χ^2/NDF : 717695.6/71

In: 2.215 ± 0.015 χ^2/NDF : 1593220.6/57

Out: 1.638 ± 0.015 χ^2/NDF : 1904906.9/61

All: 1.925 ± 0.011 χ^2/NDF : 3498882.6/119

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -257.958+/-1.768 χ^2 /NDF: 1359.0/17

Left Out: -200.228+/-1.078 χ^2 /NDF:3225.0/24

Right Out: -271.908+/-1.556 χ^2 /NDF: 4136.0/17

Left In: -199.739+/-1.097 χ^2 /NDF:2968.0/22

Left: -199.988+/-0.769 χ^2 /NDF: 6193.2/47

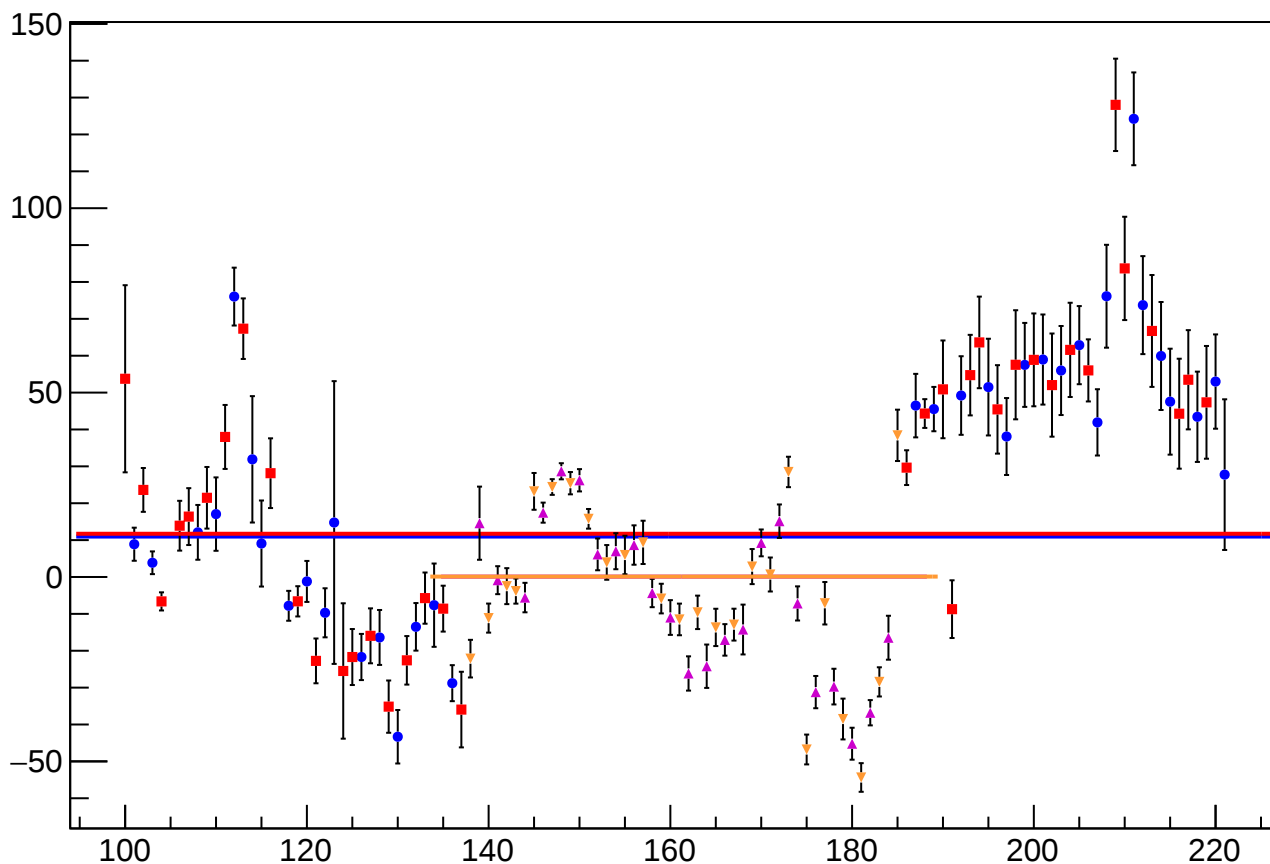
Right: -265.821+/-1.168 χ^2 /NDF: 5530.1/35

In: -215.927+/-0.932 χ^2 /NDF:5109.6/40

Out: -223.473+/-0.886 χ^2 /NDF:8795.3/42

All: -219.892+/-0.642 χ^2 /NDF: 13939.3/83

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.965 ± 1.278 $\chi^2/\text{NDF}: 614.9/34$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 11.722 ± 1.168 $\chi^2/\text{NDF}: 682.6/36$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

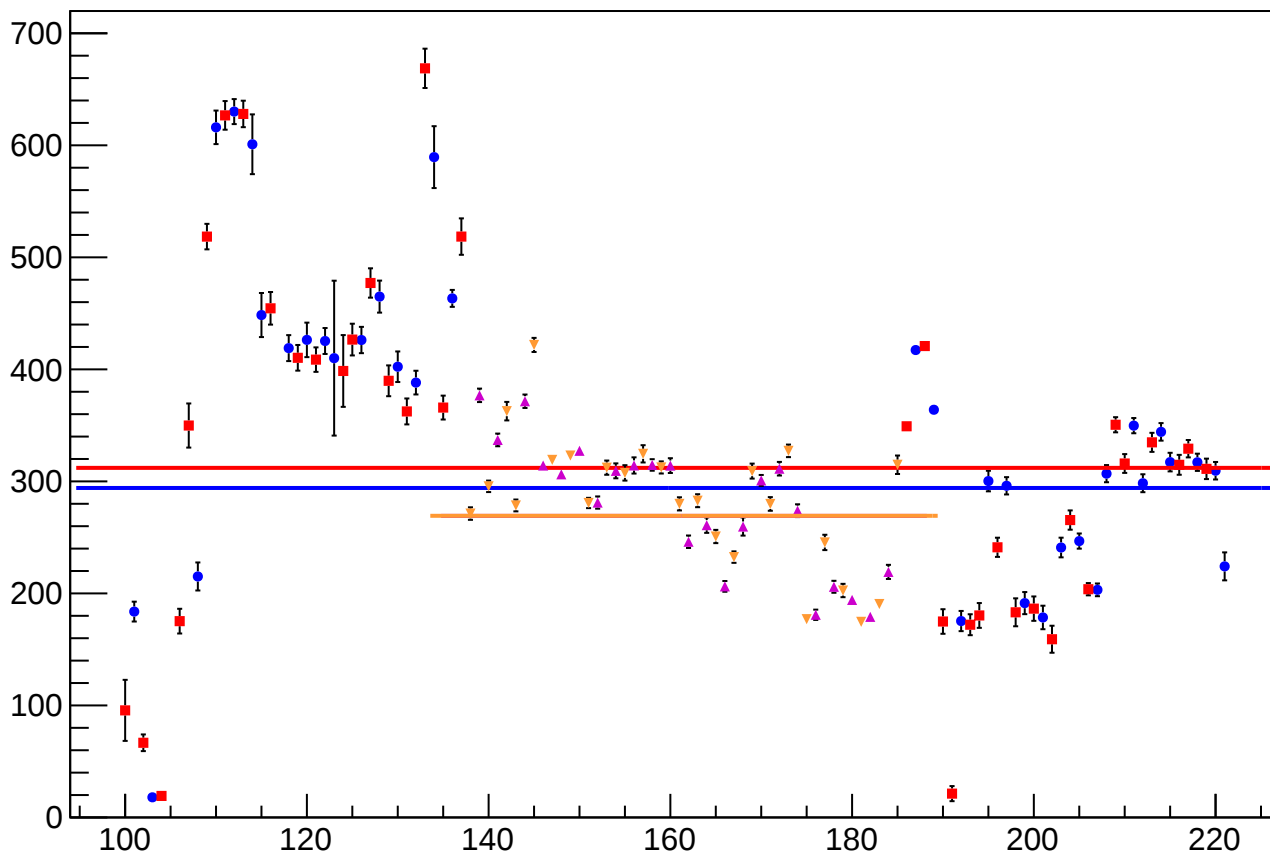
Right: 11.377 ± 0.862 $\chi^2/\text{NDF}: 1297.8/71$

In: 3.366 ± 0.701 $\chi^2/\text{NDF}: 1381.0/57$

Out: 3.862 ± 0.664 $\chi^2/\text{NDF}: 1580.8/61$

All: 3.627 ± 0.482 $\chi^2/\text{NDF}: 2962.0/119$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.122 $\pm$ 1.395 χ^2 /NDF: 9689.3/34

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 312.067 $\pm$ 1.203 χ^2 /NDF: 14408.7/36

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

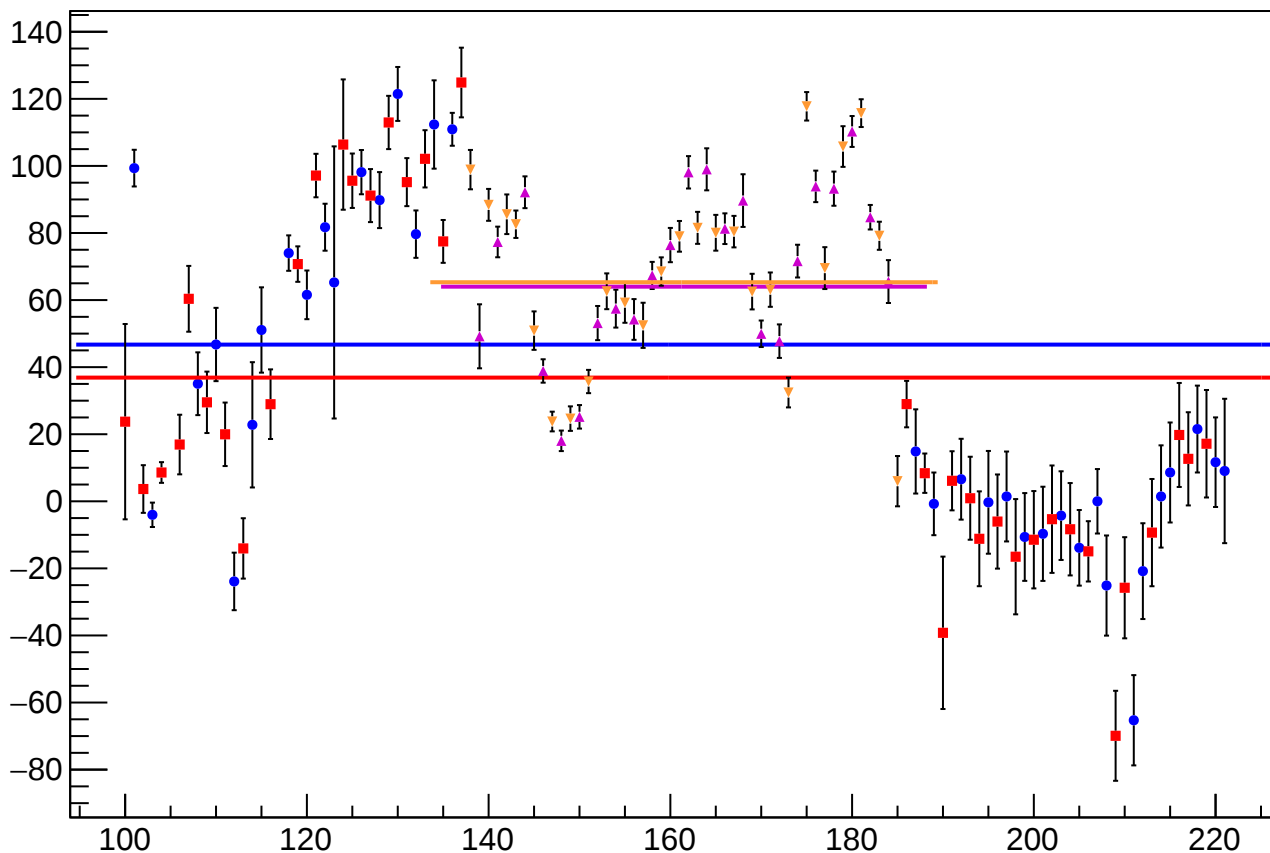
Right: 304.409 $\pm$ 0.911 χ^2 /NDF: 24192.9/71

In: 278.650 $\pm$ 0.859 χ^2 /NDF:13057.8/57

Out: 288.319 $\pm$ 0.803 χ^2 /NDF:18257.0/61

All: 283.812 $\pm$ 0.587 χ^2 /NDF: 31382.5/119

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 46.723+/-1.483 χ^2/NDF : 1116.8/34

Left Out: 65.323+/-0.935 χ^2/NDF :1007.1/24

Right Out: 36.883+/-1.403 χ^2/NDF : 965.6/36

Left In: 63.999+/-0.963 χ^2/NDF :799.5/22

Left: 64.681+/-0.671 χ^2/NDF : 1807.5/47

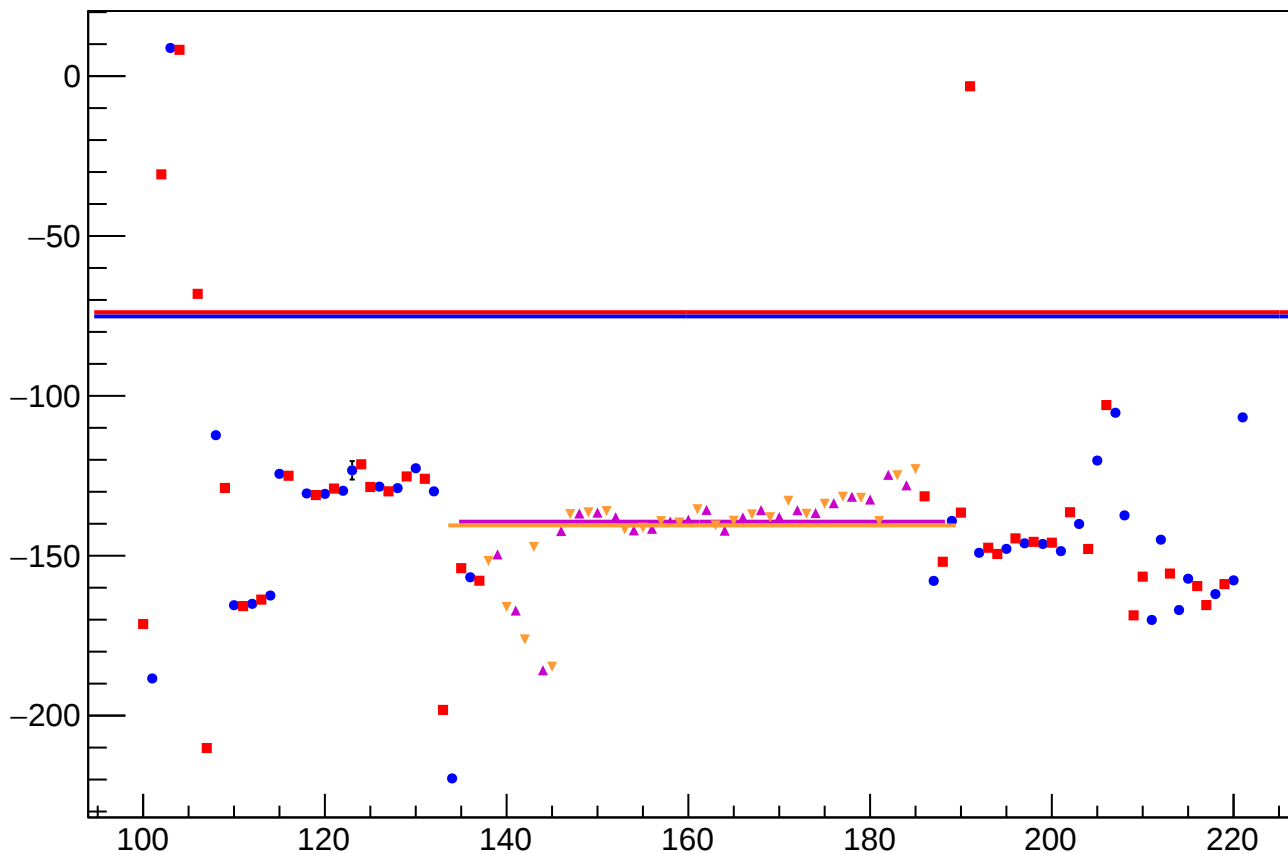
Right: 41.530+/-1.019 χ^2/NDF : 2105.6/71

In: 58.876+/-0.808 χ^2/NDF :2011.7/57

Out: 56.580+/-0.778 χ^2/NDF :2257.3/61

All: 57.685+/-0.560 χ^2/NDF : 4273.2/119

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -75.144 ± 0.061 $\chi^2/\text{NDF}: 1634435.7/34$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.836 ± 0.060 $\chi^2/\text{NDF}: 1465971.0/36$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

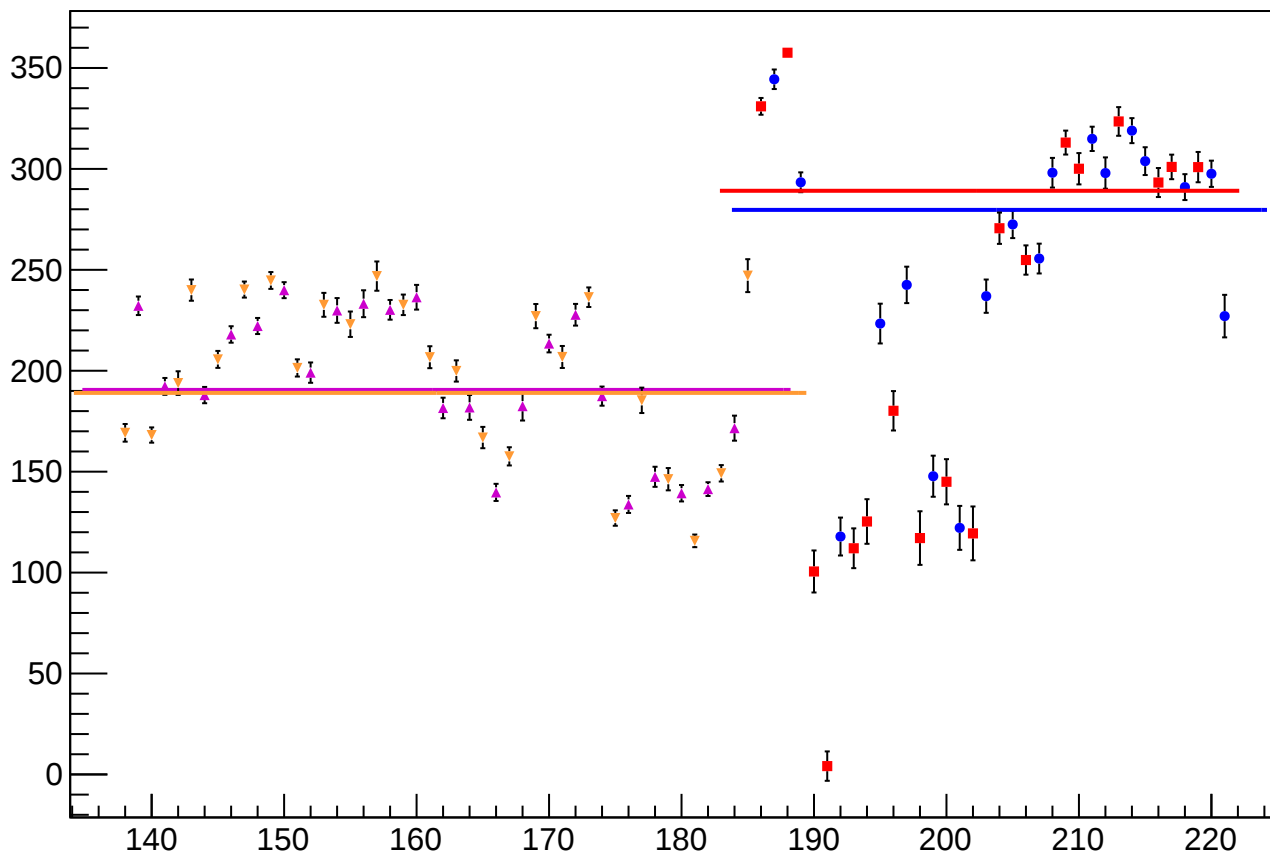
Right: -74.476 ± 0.043 $\chi^2/\text{NDF}: 3100640.7/71$

In: -116.760 ± 0.036 $\chi^2/\text{NDF}: 2413261.5/57$

Out: -116.700 ± 0.036 $\chi^2/\text{NDF}: 2343609.4/61$

All: -116.730 ± 0.025 $\chi^2/\text{NDF}: 4756872.3/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 279.695 $\pm$ 1.672 χ^2 /NDF: 1083.2/17

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 289.162 $\pm$ 1.477 χ^2 /NDF: 3947.6/17

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

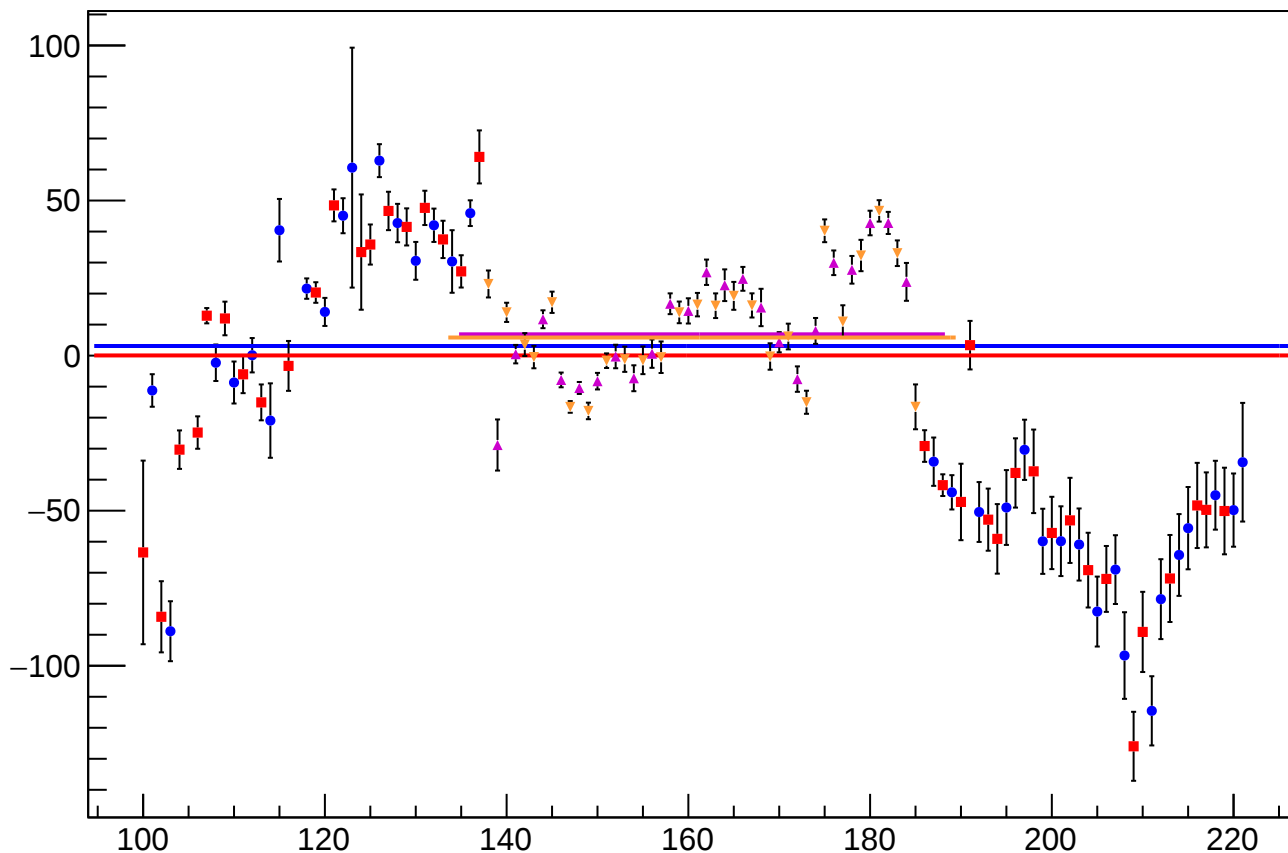
Right: 285.012 $\pm$ 1.107 χ^2 /NDF: 5048.8/35

In: 213.139 $\pm$ 0.842 χ^2 /NDF:4619.0/40

Out: 218.581 $\pm$ 0.803 χ^2 /NDF:9167.0/42

All: 215.991 $\pm$ 0.581 χ^2 /NDF: 13807.8/83

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.099 ± 1.214 $\chi^2/\text{NDF}: 1214.6/34$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.054 ± 1.053 $\chi^2/\text{NDF}: 1233.0/36$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

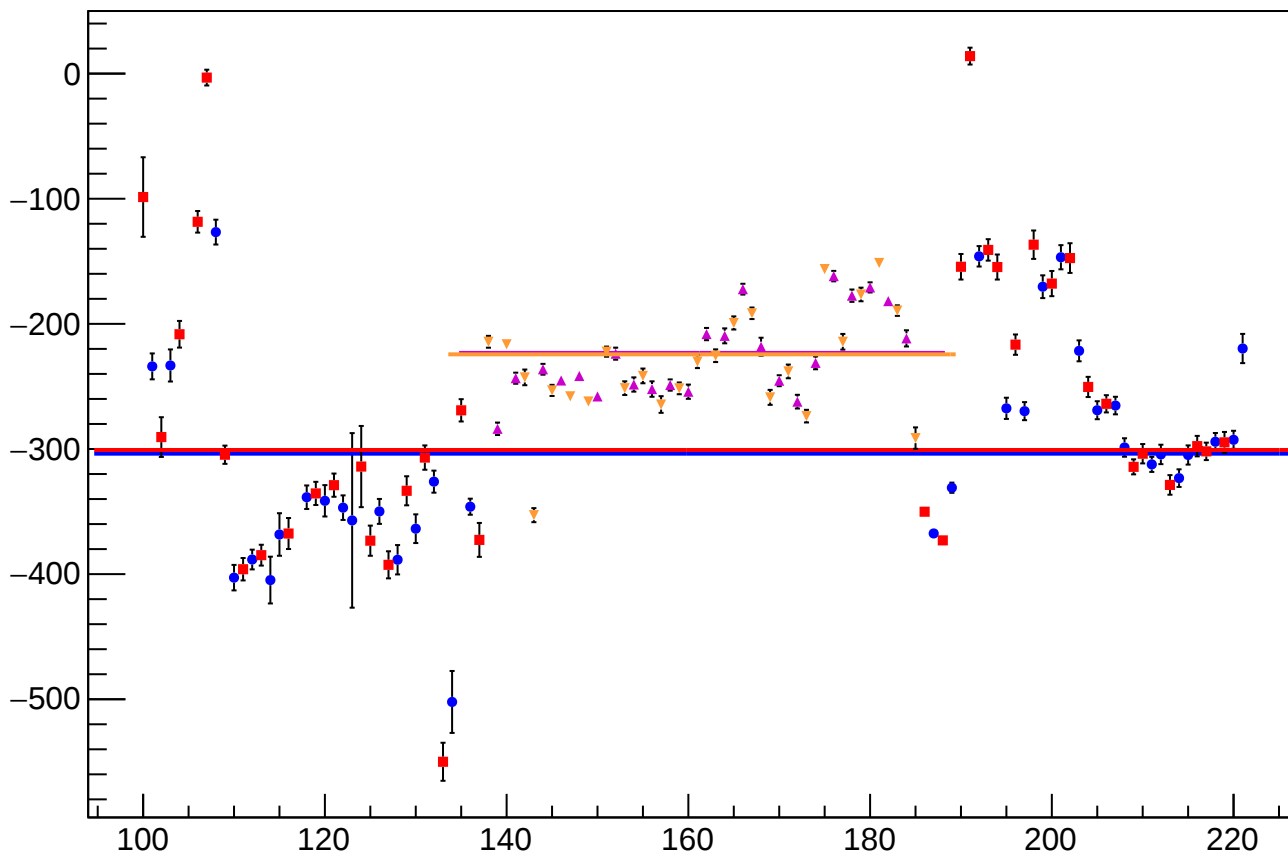
Right: 1.361 ± 0.796 $\chi^2/\text{NDF}: 2451.2/71$

In: 5.850 ± 0.630 $\chi^2/\text{NDF}: 1744.4/57$

Out: 4.019 ± 0.590 $\chi^2/\text{NDF}: 1905.9/61$

All: 4.876 ± 0.431 $\chi^2/\text{NDF}: 3654.8/119$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -303.728 ± 1.355 $\chi^2/\text{NDF}: 2315.0/34$

Left Out: -224.364 ± 0.956 $\chi^2/\text{NDF}: 2103.2/24$

Right Out: -300.791 ± 1.143 $\chi^2/\text{NDF}: 8678.3/36$

Left In: -223.223 ± 0.969 $\chi^2/\text{NDF}: 1269.3/22$

Left: -223.801 ± 0.681 $\chi^2/\text{NDF}: 3373.2/47$

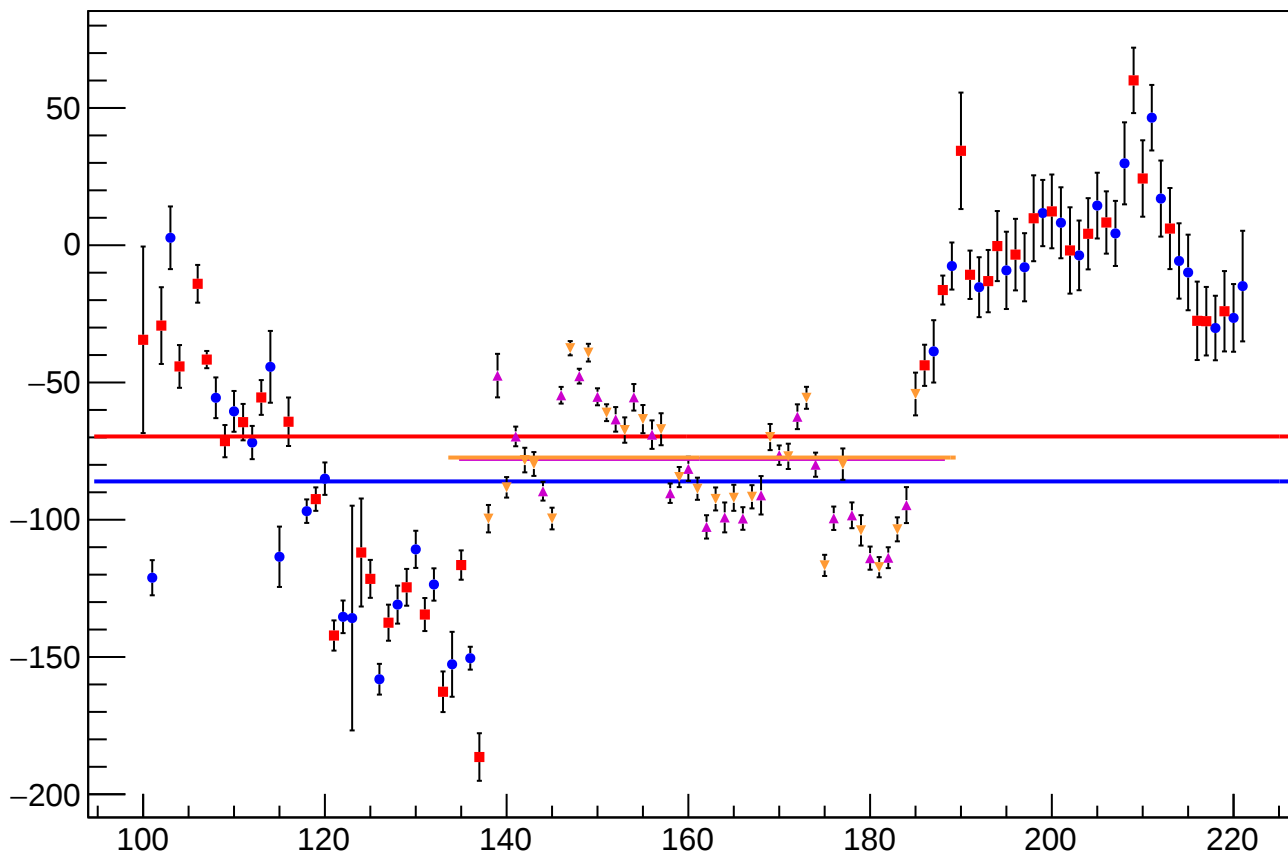
Right: -302.013 ± 0.874 $\chi^2/\text{NDF}: 10996.1/71$

In: -250.470 ± 0.788 $\chi^2/\text{NDF}: 5919.6/57$

Out: -255.811 ± 0.733 $\chi^2/\text{NDF}: 13411.2/61$

All: -253.333 ± 0.537 $\chi^2/\text{NDF}: 19355.3/119$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.037 ± 1.403 $\chi^2/\text{NDF}: 1614.1/34$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -69.663 ± 1.255 $\chi^2/\text{NDF}: 1785.8/36$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

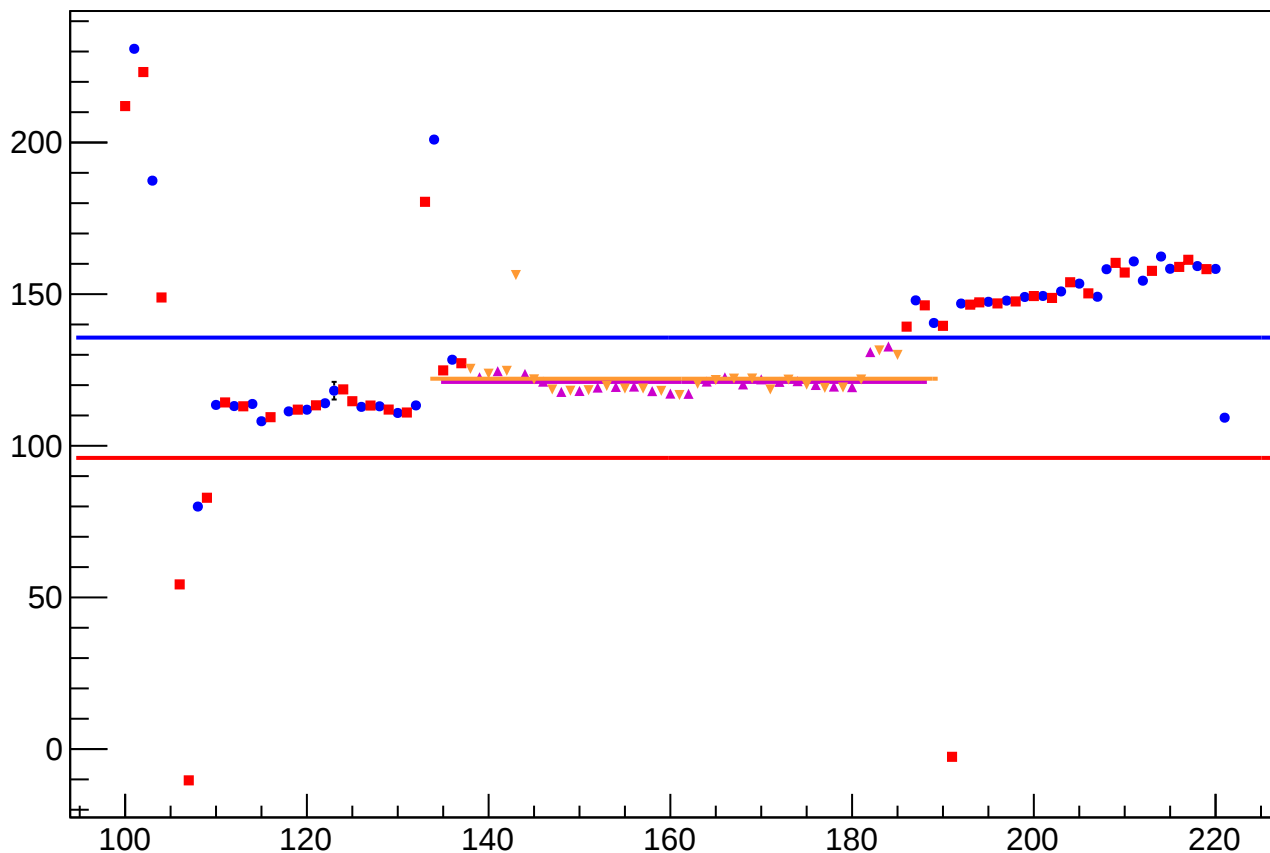
Right: -76.946 ± 0.936 $\chi^2/\text{NDF}: 3475.6/71$

In: -80.035 ± 0.726 $\chi^2/\text{NDF}: 2261.9/57$

Out: -75.021 ± 0.690 $\chi^2/\text{NDF}: 2658.2/61$

All: -77.402 ± 0.500 $\chi^2/\text{NDF}: 4945.1/119$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.675 $\pm$ 0.071 χ^2 /NDF: 214403.8/34

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 96.004 $\pm$ 0.061 χ^2 /NDF: 1180432.9/36

Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47

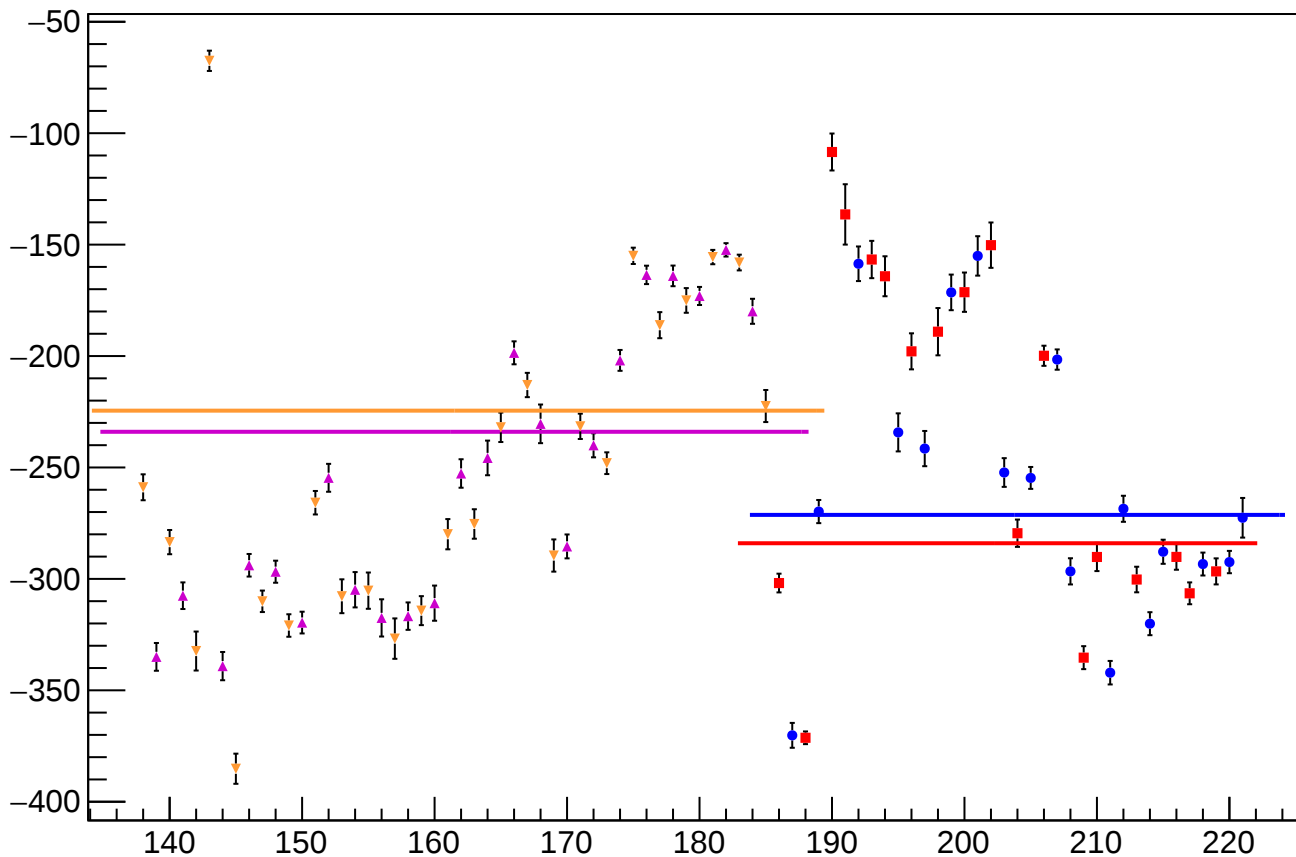
Right: 112.752 $\pm$ 0.046 χ^2 /NDF: 1573761.7/71

In: 124.520 $\pm$ 0.035 χ^2 /NDF:254422.6/57

Out: 114.417 $\pm$ 0.033 χ^2 /NDF:1340404.4/61

All: 119.228 $\pm$ 0.024 χ^2 /NDF: 1639214.0/119

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -271.279 ± 1.395 $\chi^2/\text{NDF}: 1475.1/17$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -284.002 ± 1.358 $\chi^2/\text{NDF}: 2944.1/17$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

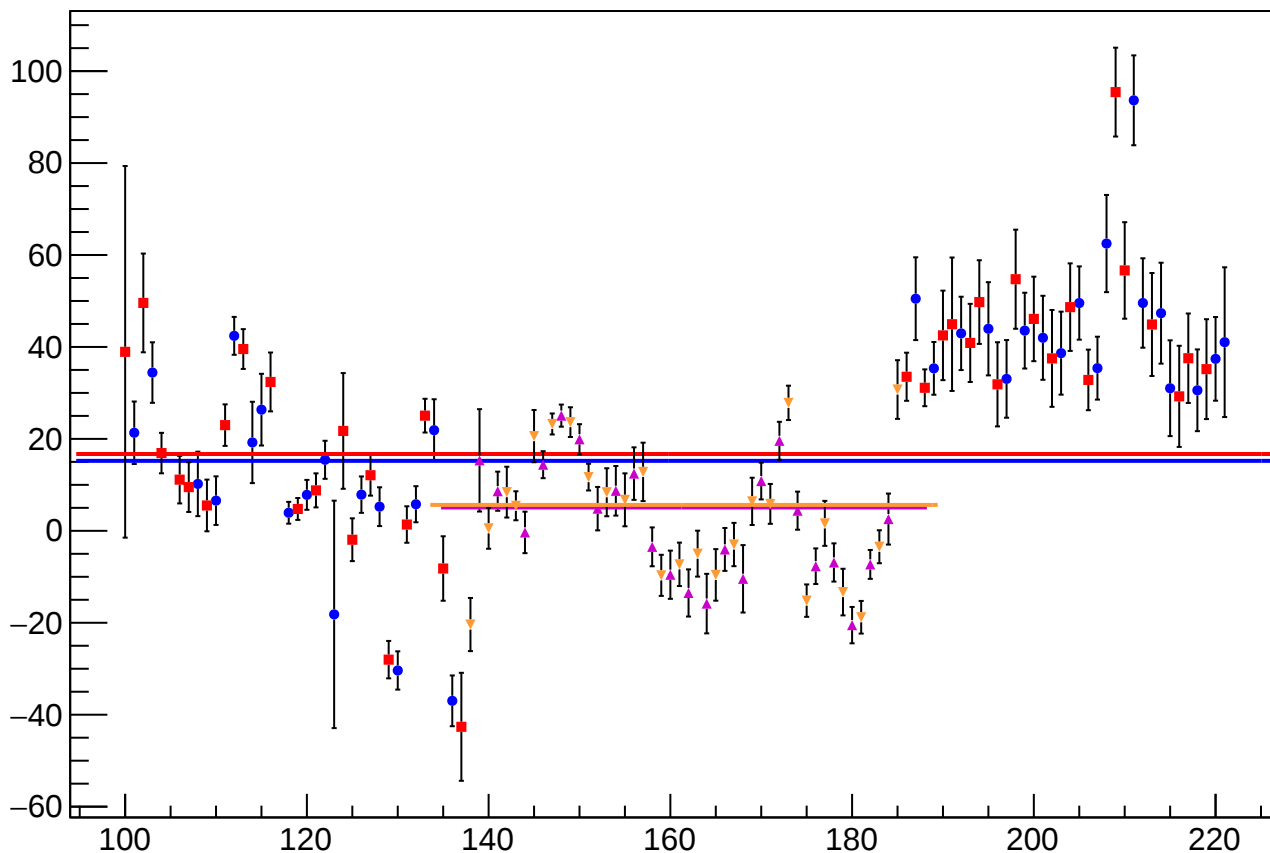
Right: -277.814 ± 0.973 $\chi^2/\text{NDF}: 4461.9/35$

In: -248.420 ± 0.868 $\chi^2/\text{NDF}: 5451.5/40$

Out: -247.539 ± 0.845 $\chi^2/\text{NDF}: 8991.9/42$

All: -247.968 ± 0.605 $\chi^2/\text{NDF}: 14444.0/83$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.224+/-0.975 χ^2/NDF : 538.7/34

Left Out: 5.638+/-0.828 χ^2/NDF : 313.6/24

Right Out: 16.711+/-0.937 χ^2/NDF : 476.2/36

Left In: 5.077+/-0.869 χ^2/NDF : 239.7/22

Left: 5.371+/-0.599 χ^2/NDF : 553.6/47

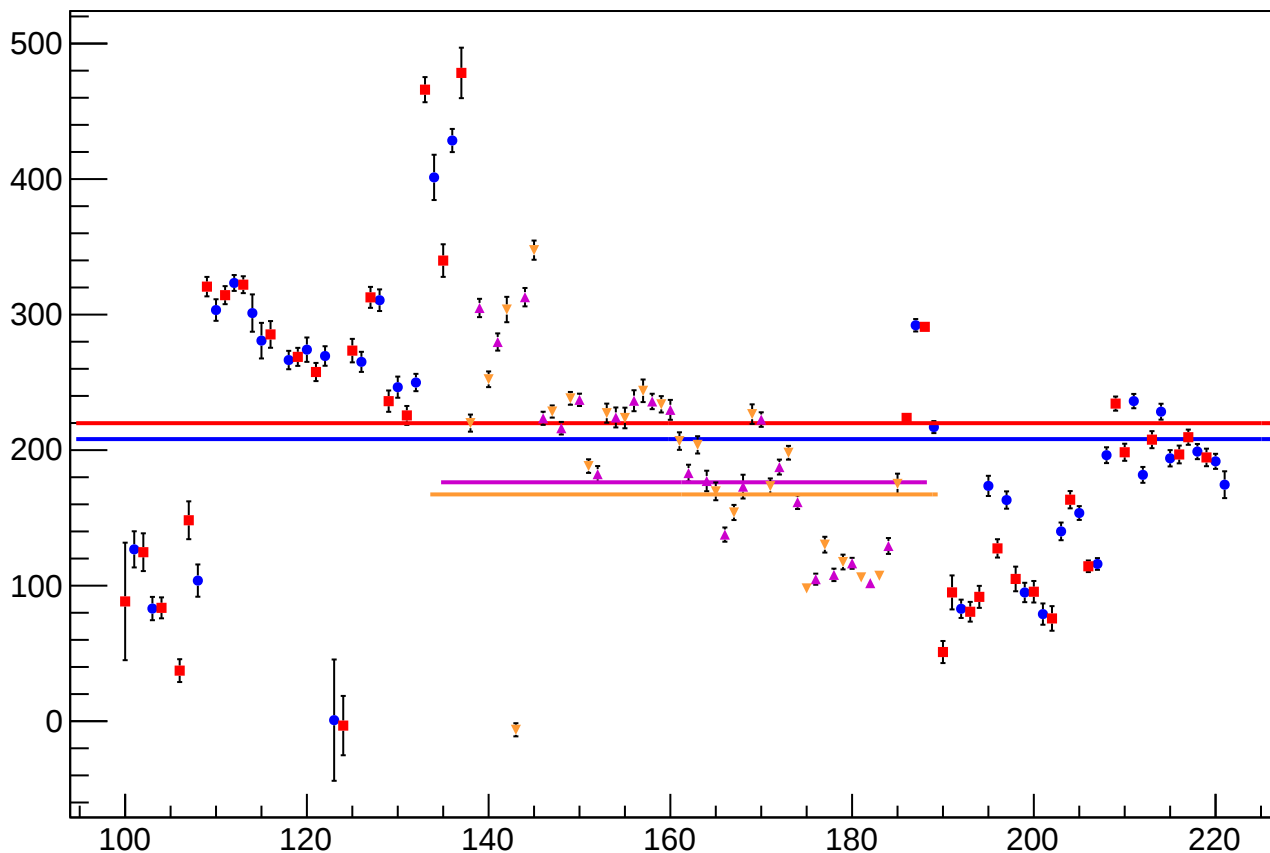
Right: 15.996+/-0.675 χ^2/NDF : 1016.1/71

In: 9.571+/-0.649 χ^2/NDF : 838.8/57

Out: 10.494+/-0.620 χ^2/NDF : 868.3/61

All: 10.053+/-0.448 χ^2/NDF : 1708.1/119

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.139+/-1.141 χ^2/NDF : 4285.7/34

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 219.889+/-1.057 χ^2/NDF : 6629.3/36

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

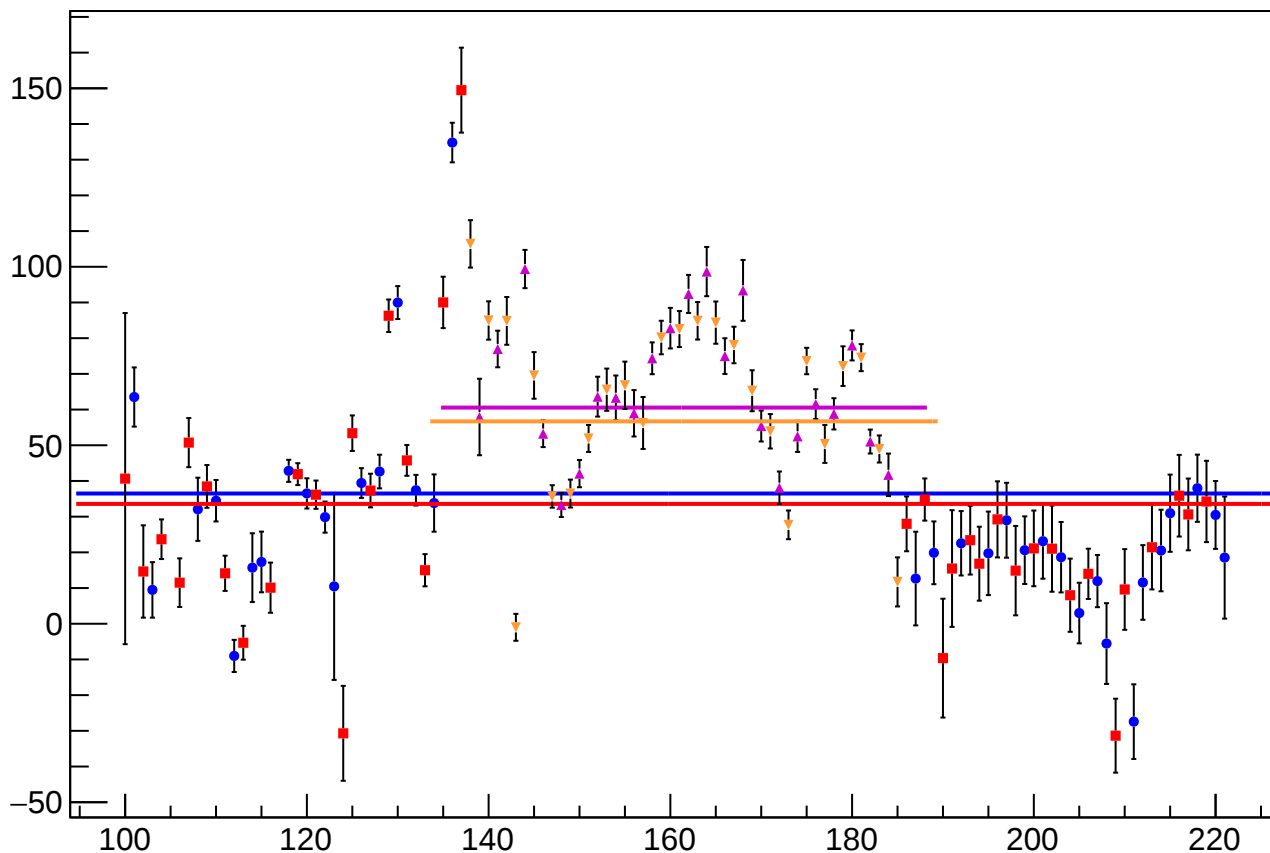
Right: 214.464+/-0.776 χ^2/NDF : 10972.1/71

In: 191.698+/-0.794 χ^2/NDF : 7857.3/57

Out: 194.228+/-0.756 χ^2/NDF : 12290.5/61

All: 193.025+/-0.548 χ^2/NDF : 20153.1/119

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.484 ± 1.124 $\chi^2/\text{NDF}: 700.4/34$

Left Out: 56.695 ± 0.952 $\chi^2/\text{NDF}: 690.4/24$

Right Out: 33.572 ± 1.093 $\chi^2/\text{NDF}: 555.6/36$

Left In: 60.555 ± 0.990 $\chi^2/\text{NDF}: 335.6/22$

Left: 58.548 ± 0.686 $\chi^2/\text{NDF}: 1034.0/47$

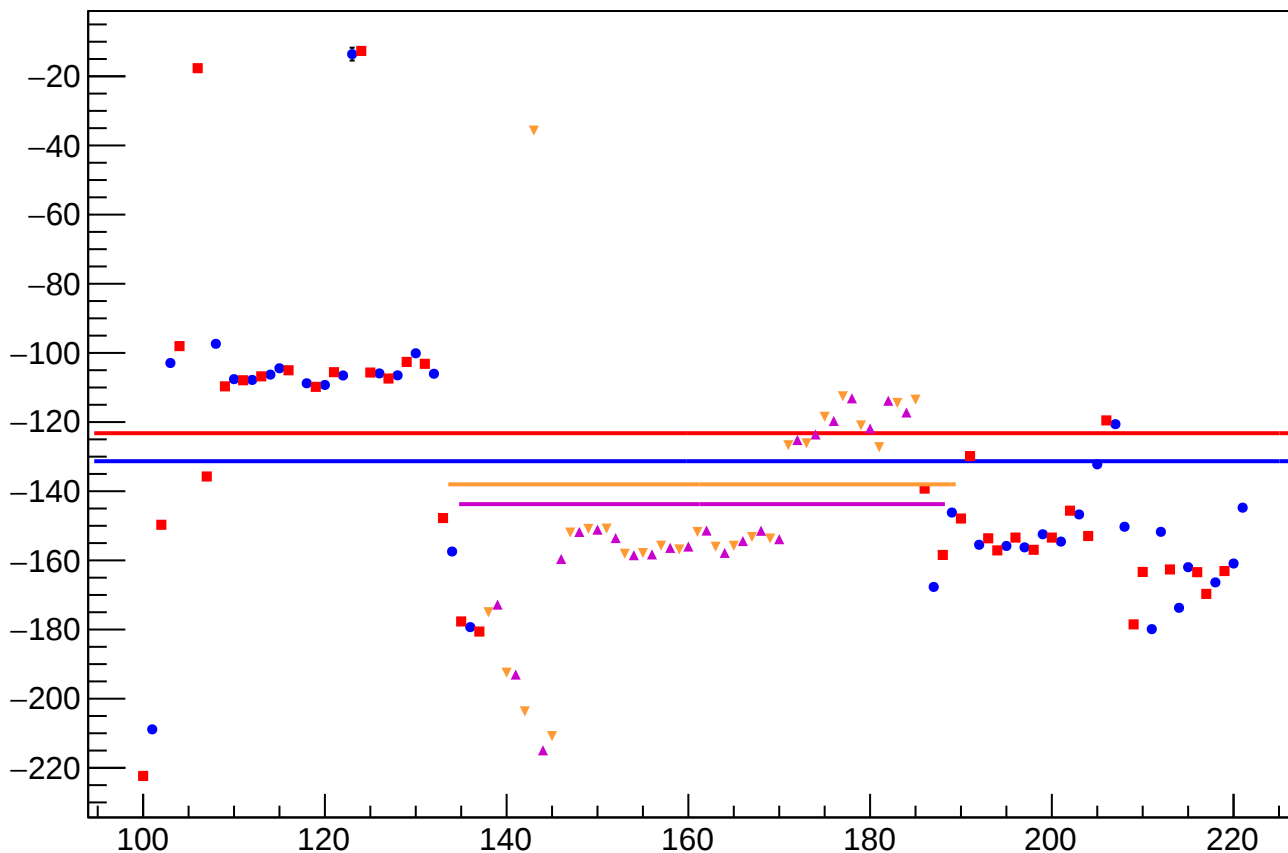
Right: 34.988 ± 0.783 $\chi^2/\text{NDF}: 1259.5/71$

In: 50.033 ± 0.743 $\chi^2/\text{NDF}: 1294.4/57$

Out: 46.724 ± 0.718 $\chi^2/\text{NDF}: 1500.6/61$

All: 48.322 ± 0.516 $\chi^2/\text{NDF}: 2805.2/119$

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.317 ± 0.060 $\chi^2/\text{NDF}: 236616.6/34$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -123.217 ± 0.057 $\chi^2/\text{NDF}: 494161.9/36$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

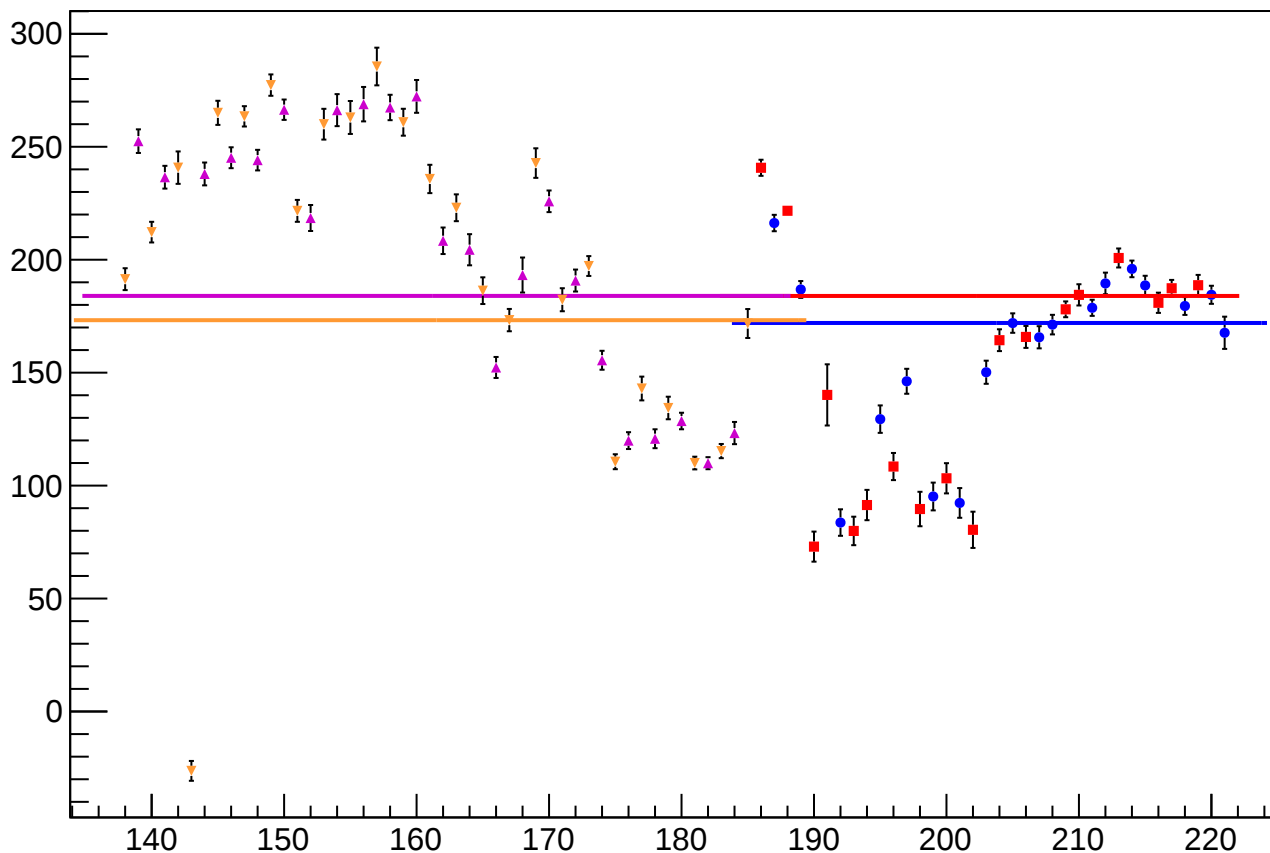
Right: -127.060 ± 0.041 $\chi^2/\text{NDF}: 740357.2/71$

In: -139.126 ± 0.037 $\chi^2/\text{NDF}: 521955.6/57$

Out: -132.310 ± 0.035 $\chi^2/\text{NDF}: 1101315.7/61$

All: -135.607 ± 0.025 $\chi^2/\text{NDF}: 1641221.3/111$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 172.002 $\pm$ 1.072 χ^2 /NDF: 872.7/17

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24

Right Out: 183.962 $\pm$ 1.018 χ^2 /NDF: 2088.9/17

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

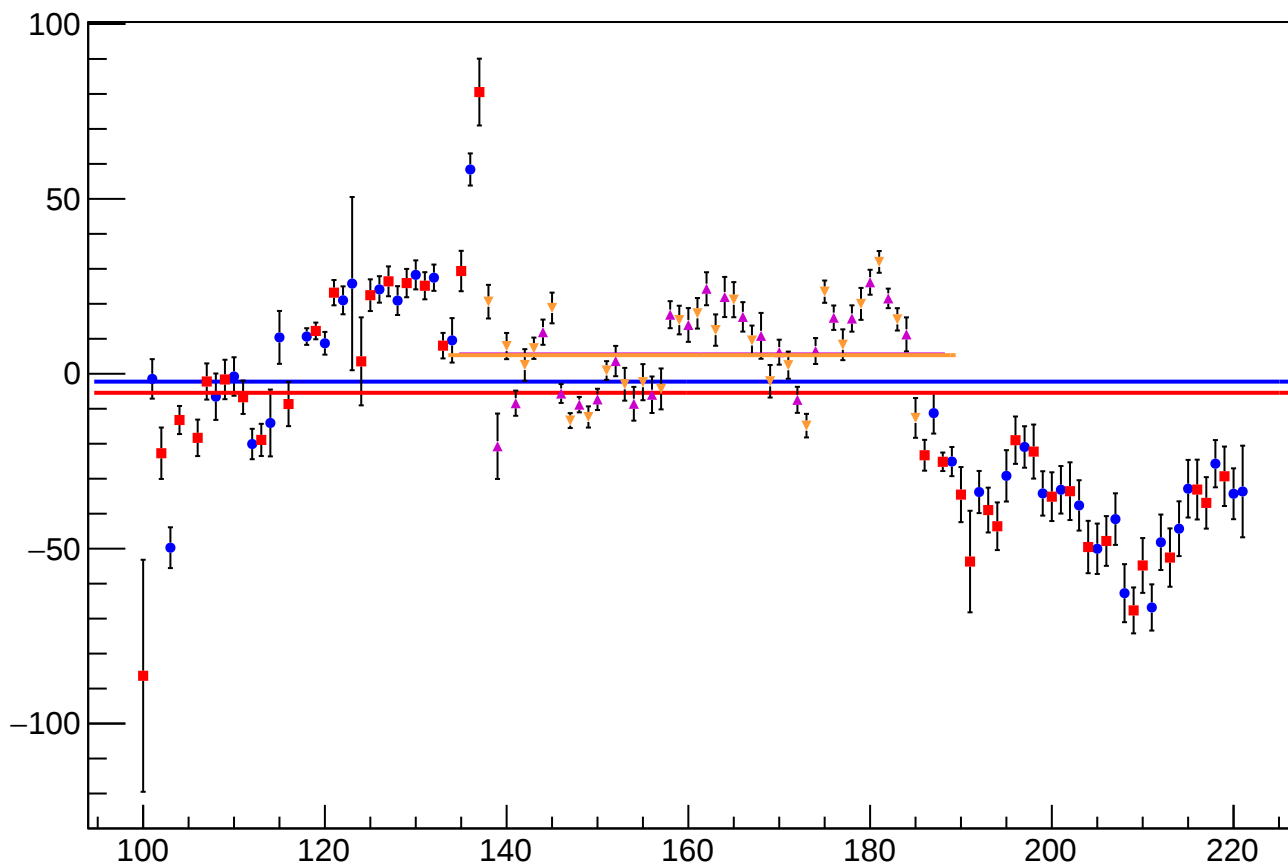
Right: 178.288 $\pm$ 0.738 χ^2 /NDF: 3027.1/35

In: 178.461 $\pm$ 0.728 χ^2 /NDF: 4553.8/40

Out: 178.311 $\pm$ 0.701 χ^2 /NDF: 7993.4/42

All: 178.383 $\pm$ 0.505 χ^2 /NDF: 12547.2/83

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.248 ± 0.891 χ^2/NDF : 1026.4/34

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.443 ± 0.851 χ^2/NDF : 958.4/36

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

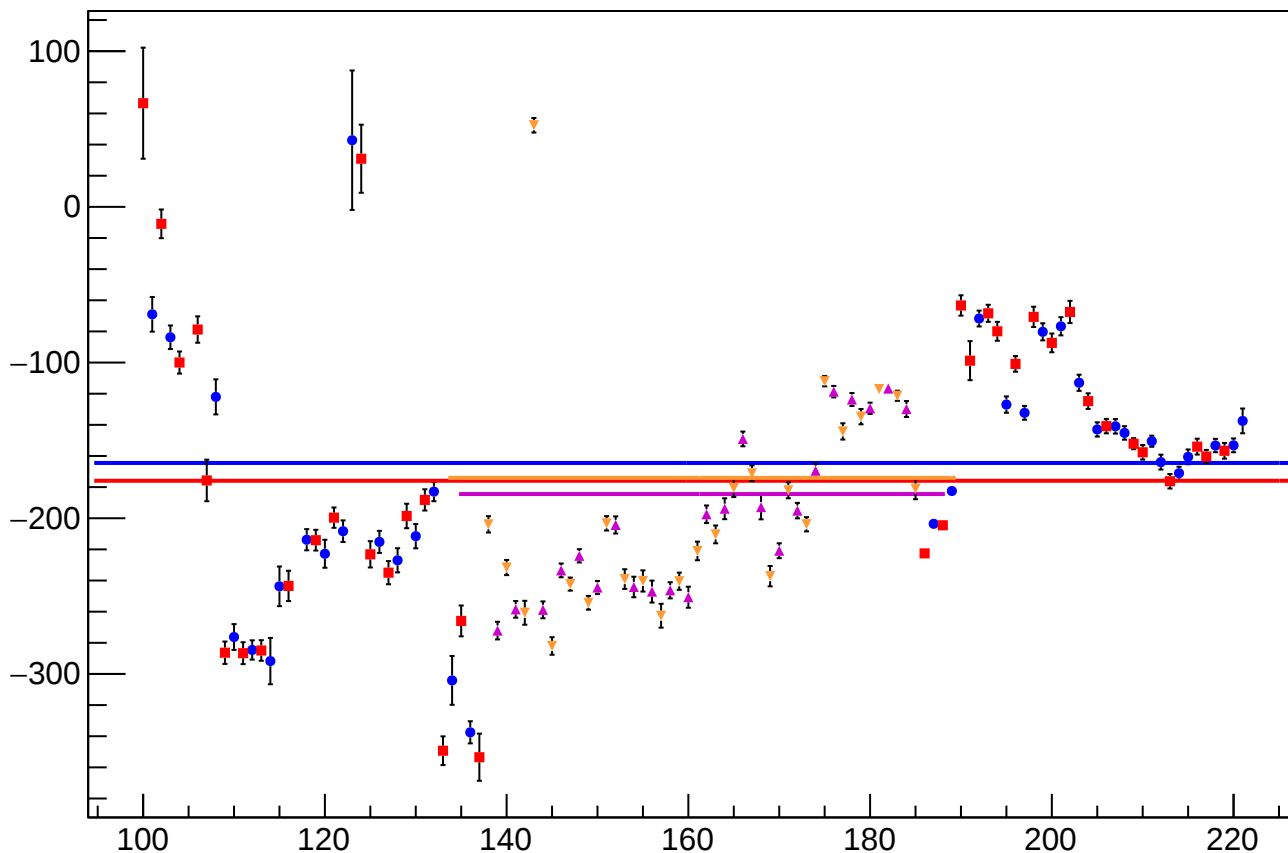
Right: -3.919 ± 0.615 χ^2/NDF : 1991.6/71

In: 2.149 ± 0.587 χ^2/NDF : 1325.8/57

Out: 0.633 ± 0.561 χ^2/NDF : 1394.3/61

All: 1.357 ± 0.406 χ^2/NDF : 2723.6/119

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -164.484 ± 0.923 χ^2/NDF : 3170.3/34

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -175.918 ± 0.836 χ^2/NDF : 5034.7/36

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

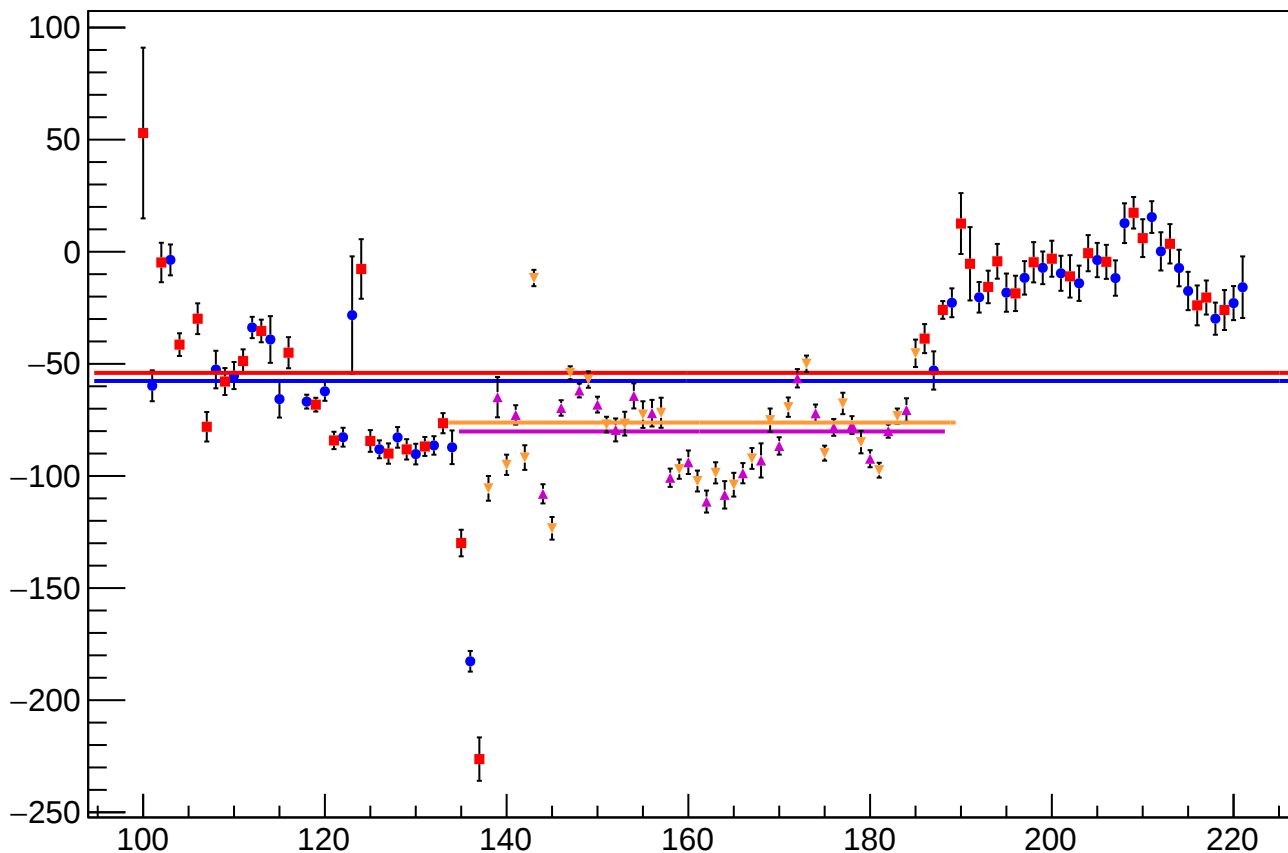
Right: -170.760 ± 0.620 χ^2/NDF : 8289.2/71

In: -173.762 ± 0.675 χ^2/NDF : 6439.5/57

Out: -175.127 ± 0.634 χ^2/NDF : 10480.0/61

All: -174.488 ± 0.462 χ^2/NDF : 16921.7/119

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.630 ± 1.029 $\chi^2/\text{NDF}: 1716.0/34$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -54.020 ± 1.003 $\chi^2/\text{NDF}: 1500.6/36$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

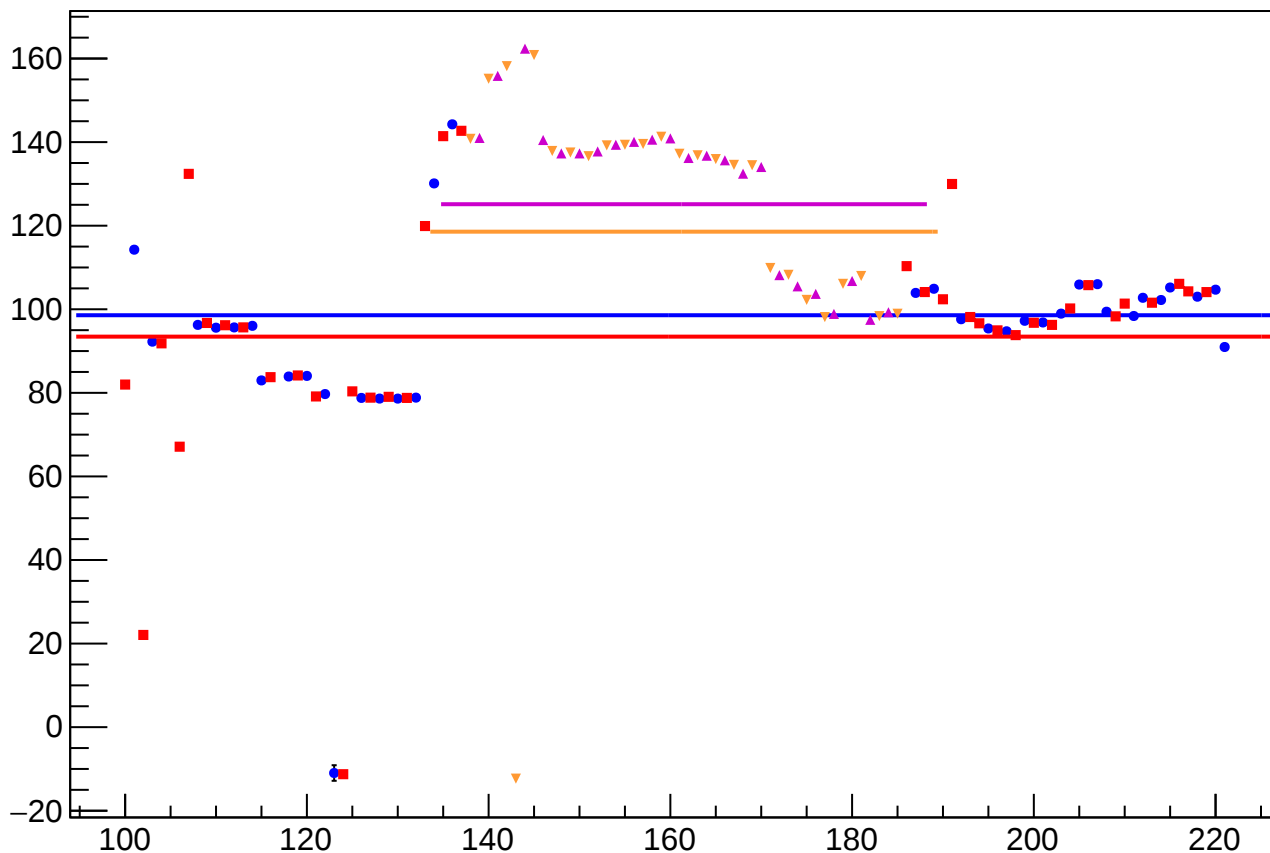
Right: -55.778 ± 0.718 $\chi^2/\text{NDF}: 3222.9/71$

In: -70.526 ± 0.673 $\chi^2/\text{NDF}: 2273.4/57$

Out: -66.822 ± 0.652 $\chi^2/\text{NDF}: 2583.9/61$

All: -68.615 ± 0.468 $\chi^2/\text{NDF}: 4872.9/119$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.573+/-0.052 χ^2/NDF : 96907.0/34

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 93.452+/-0.049 χ^2/NDF : 245951.5/36

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

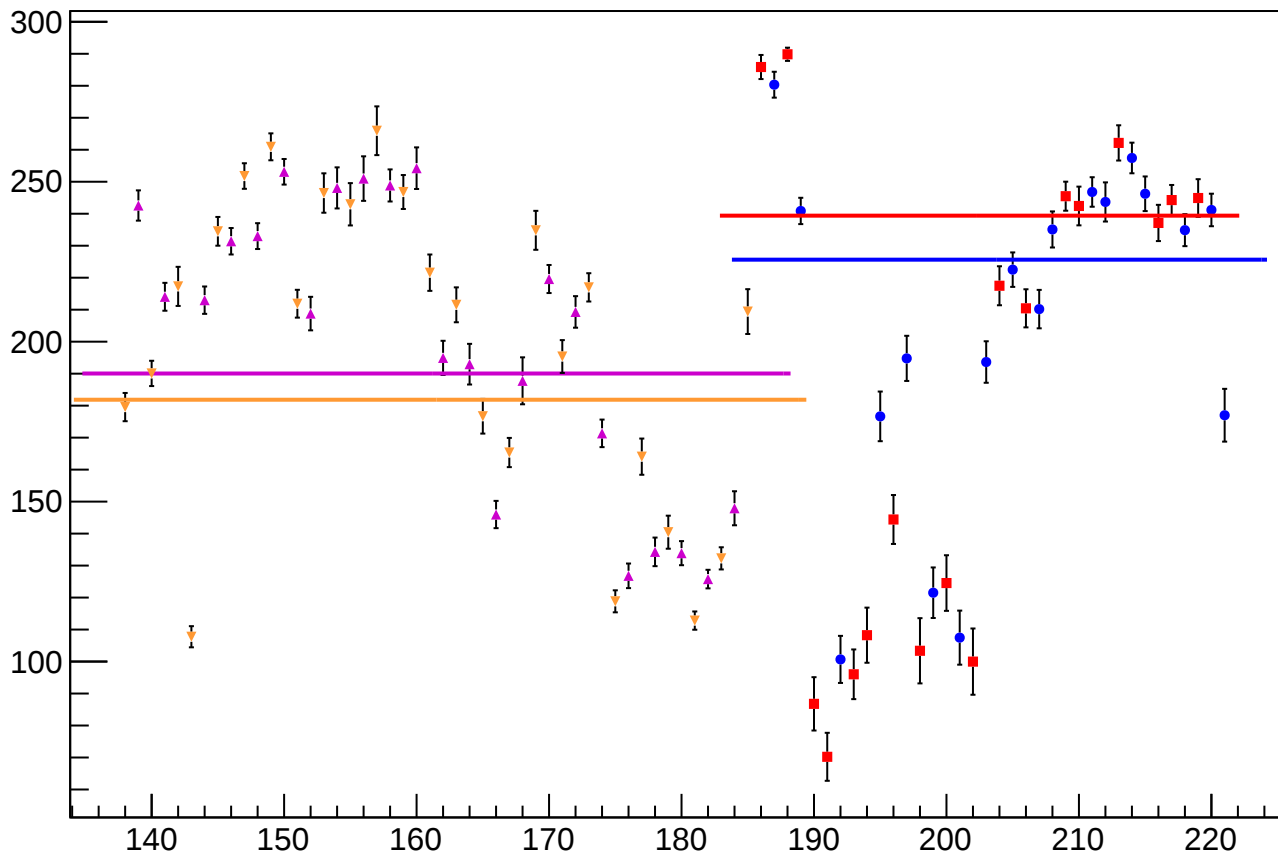
Right: 95.883+/-0.036 χ^2/NDF : 347946.0/71

In: 114.877+/-0.032 χ^2/NDF : 477801.2/57

Out: 108.491+/-0.031 χ^2/NDF : 1129019.7/61

All: 111.583+/-0.023 χ^2/NDF : 1626933.8/119

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.636 $\pm$ 1.328 χ^2/NDF : 1082.7/17

Left Out: 181.850 $\pm$ 0.913 χ^2/NDF :3303.4/24

Right Out: 239.396 $\pm$ 1.209 χ^2/NDF : 2909.5/17

Left In: 190.048 $\pm$ 0.953 χ^2/NDF :2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2/NDF : 5780.3/47

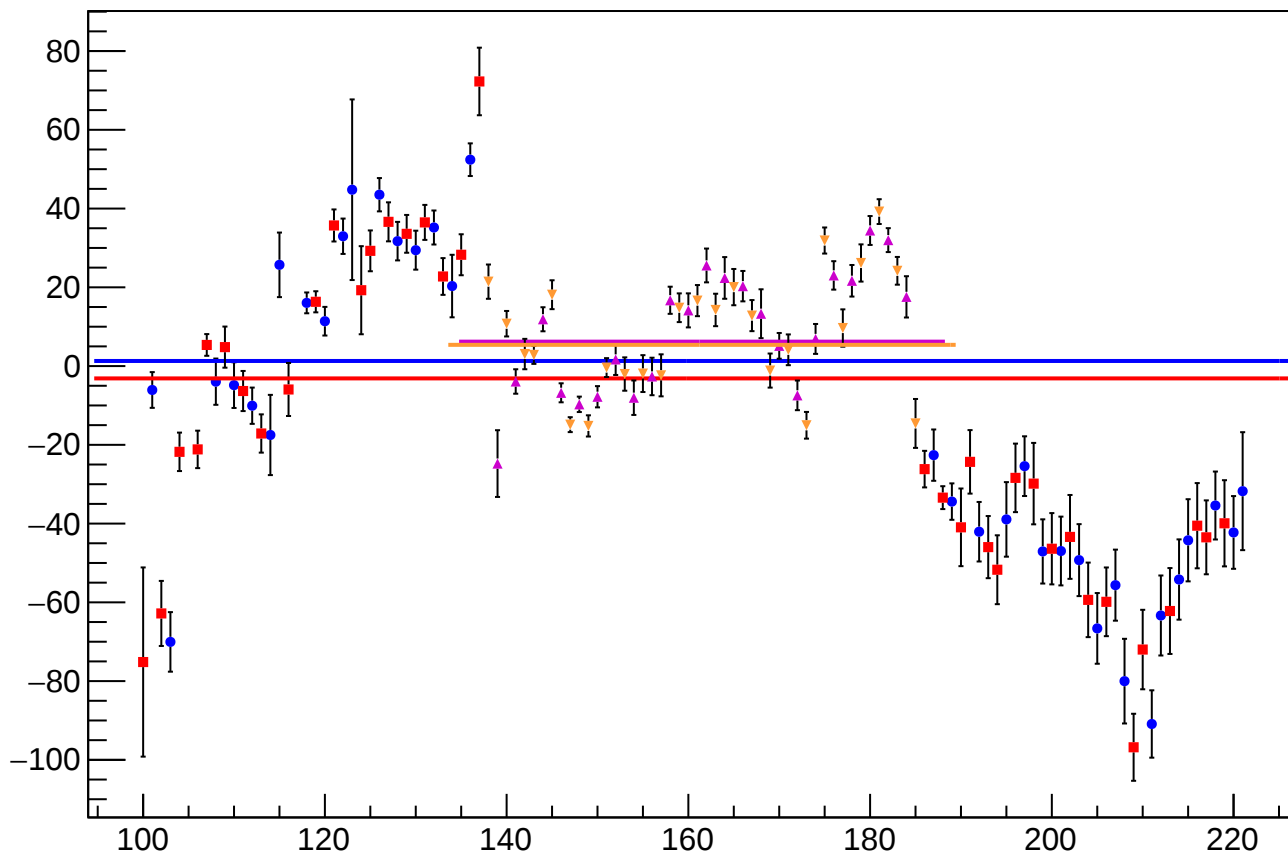
Right: 233.160 $\pm$ 0.894 χ^2/NDF : 4050.9/35

In: 202.148 $\pm$ 0.774 χ^2/NDF :3995.4/40

Out: 202.769 $\pm$ 0.729 χ^2/NDF :7655.8/42

All: 202.477 $\pm$ 0.531 χ^2/NDF : 11651.5/83

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.296 ± 1.003 $\chi^2/\text{NDF}: 1231.8/34$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -3.131 ± 0.914 $\chi^2/\text{NDF}: 1228.4/36$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

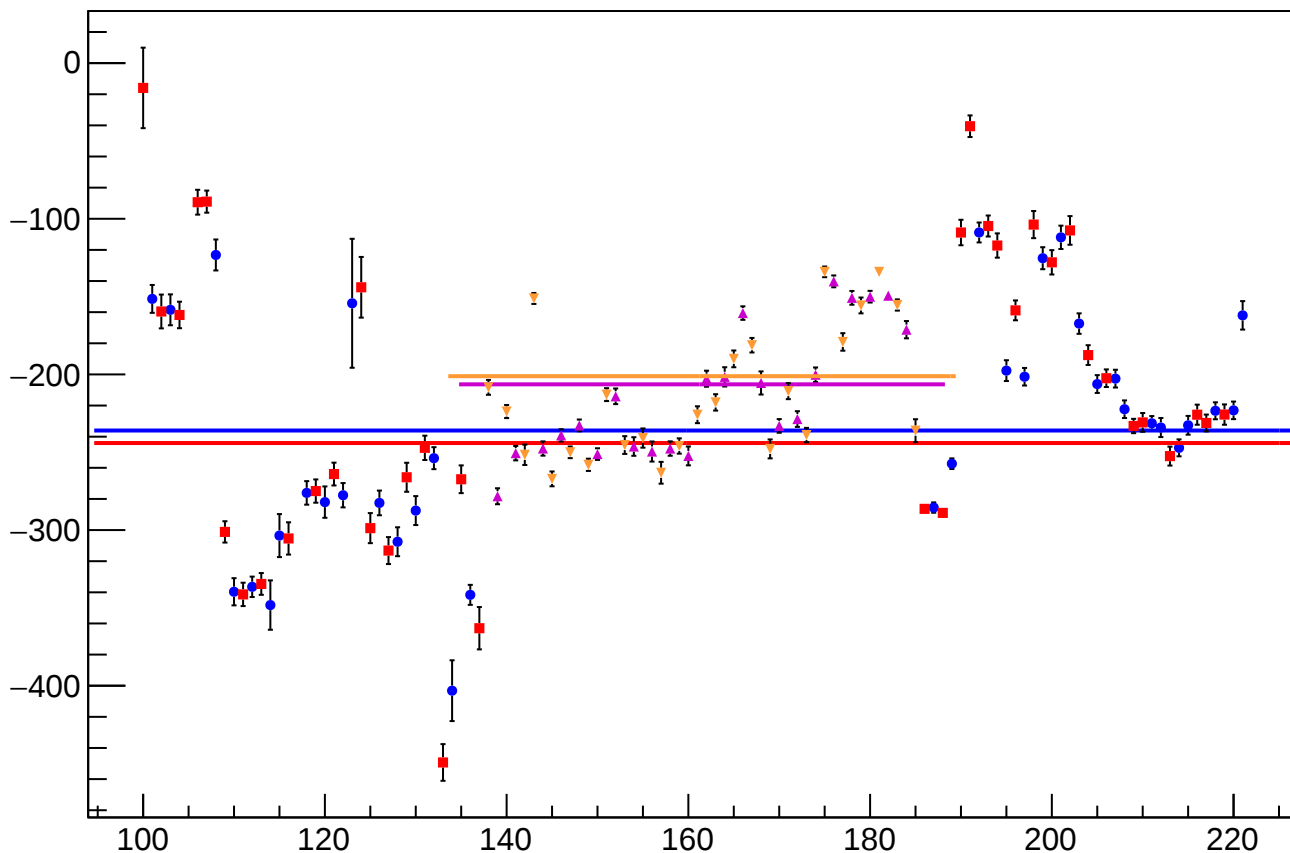
Right: -1.123 ± 0.675 $\chi^2/\text{NDF}: 2470.9/71$

In: 4.501 ± 0.591 $\chi^2/\text{NDF}: 1655.0/57$

Out: 2.309 ± 0.550 $\chi^2/\text{NDF}: 1810.5/61$

All: 3.325 ± 0.402 $\chi^2/\text{NDF}: 3472.8/119$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -236.042 ± 1.099 χ^2/NDF : 2787.1/34

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -244.081 ± 0.955 χ^2/NDF : 5859.9/36

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

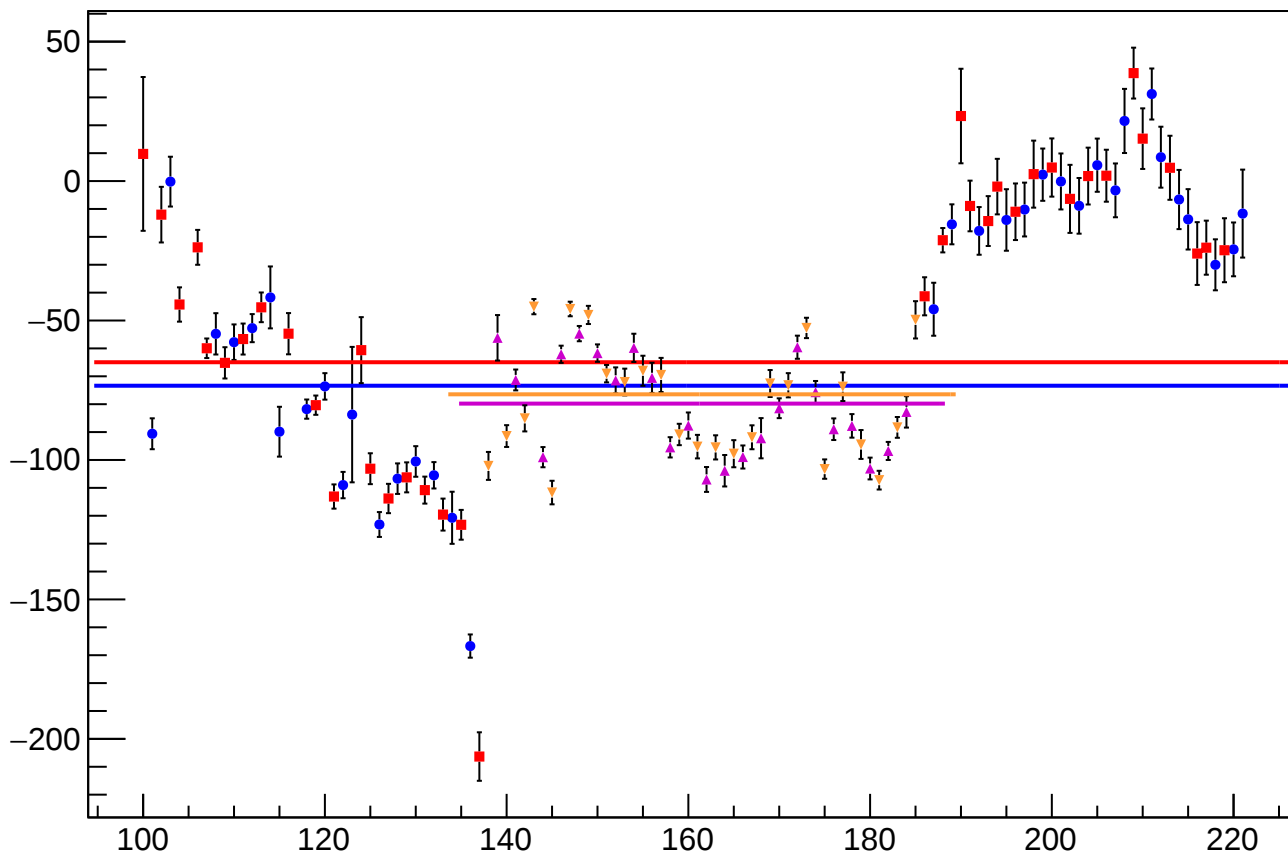
Right: -240.623 ± 0.721 χ^2/NDF : 8677.4/71

In: -219.059 ± 0.718 χ^2/NDF : 5315.8/57

Out: -221.765 ± 0.662 χ^2/NDF : 9399.7/61

All: -220.524 ± 0.487 χ^2/NDF : 14723.2/119

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.378 ± 1.161 $\chi^2/\text{NDF}: 1798.5/34$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -64.957 ± 1.084 $\chi^2/\text{NDF}: 1744.0/36$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

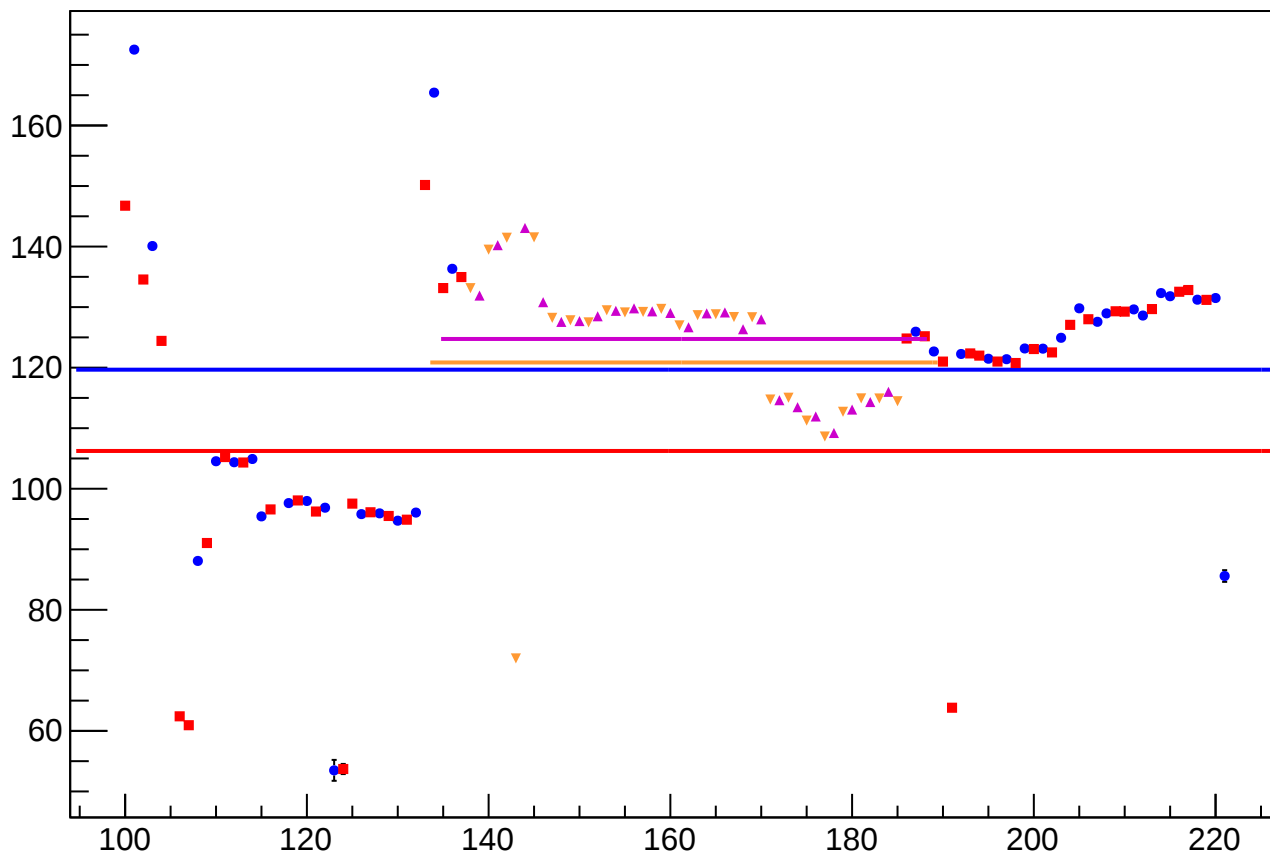
Right: -68.880 ± 0.792 $\chi^2/\text{NDF}: 3570.6/71$

In: -77.588 ± 0.680 $\chi^2/\text{NDF}: 2230.8/57$

Out: -72.425 ± 0.642 $\chi^2/\text{NDF}: 2598.4/61$

All: -74.857 ± 0.467 $\chi^2/\text{NDF}: 4859.7/119$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.665 $\pm$ 0.060 χ^2 /NDF: 114037.5/34

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF: 182759.1/24

Right Out: 106.238 $\pm$ 0.053 χ^2 /NDF: 255320.8/36

Left In: 124.738 $\pm$ 0.039 χ^2 /NDF: 51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47

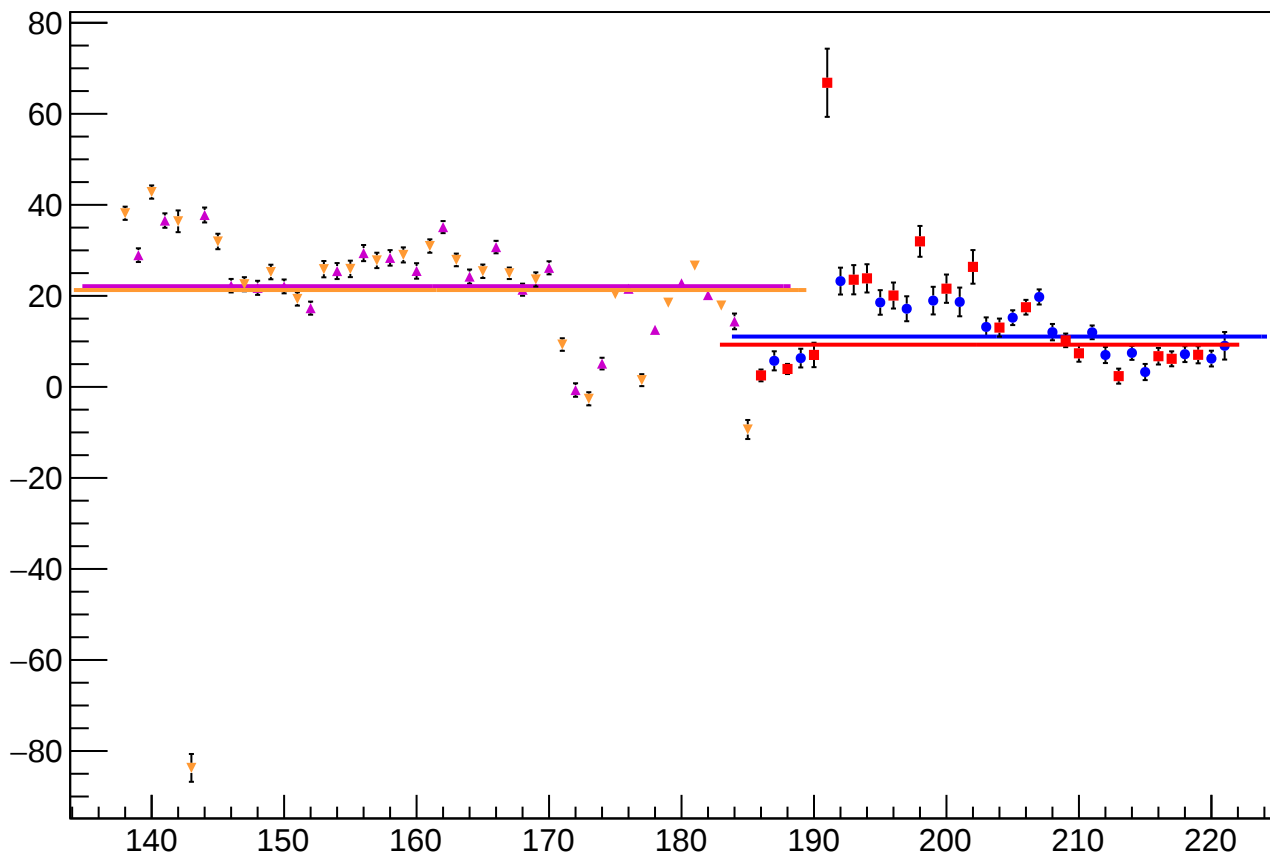
Right: 112.190 $\pm$ 0.040 χ^2 /NDF: 397316.6/71

In: 123.214 $\pm$ 0.033 χ^2 /NDF: 170352.6/57

Out: 115.940 $\pm$ 0.031 χ^2 /NDF: 487692.6/61

All: 119.369 $\pm$ 0.023 χ^2 /NDF: 683999.6/119

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.060 $\pm$ 0.466 χ^2 /NDF: 132.9/17

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.276 $\pm$ 0.454 χ^2 /NDF: 303.3/17

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

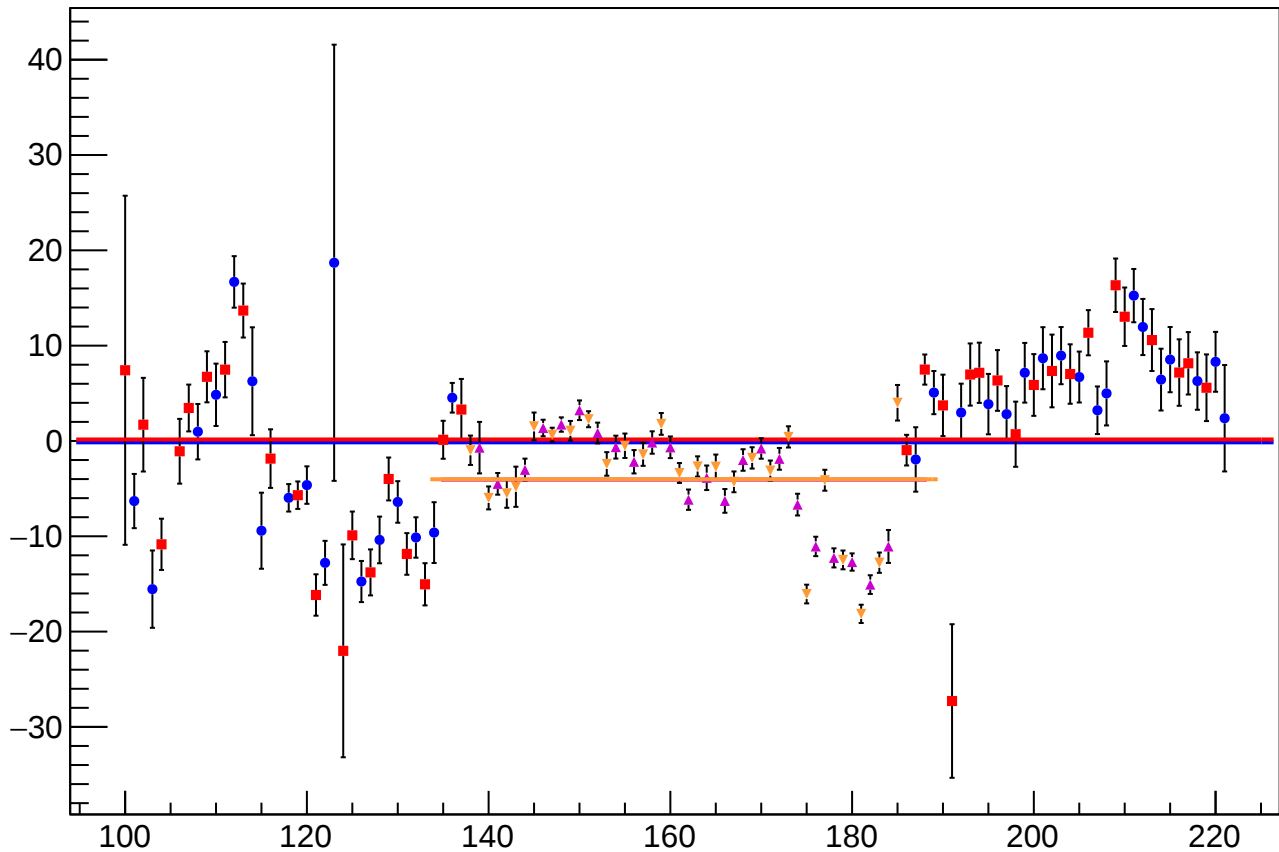
Right: 10.146 $\pm$ 0.325 χ^2 /NDF: 443.7/35

In: 19.103 $\pm$ 0.243 χ^2 /NDF:1443.7/40

Out: 17.936 $\pm$ 0.240 χ^2 /NDF:3407.3/42

All: 18.511 $\pm$ 0.171 χ^2 /NDF: 4862.6/83

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.145 ± 0.454 $\chi^2/\text{NDF}: 342.5/34$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: 0.157 ± 0.437 $\chi^2/\text{NDF}: 418.1/36$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

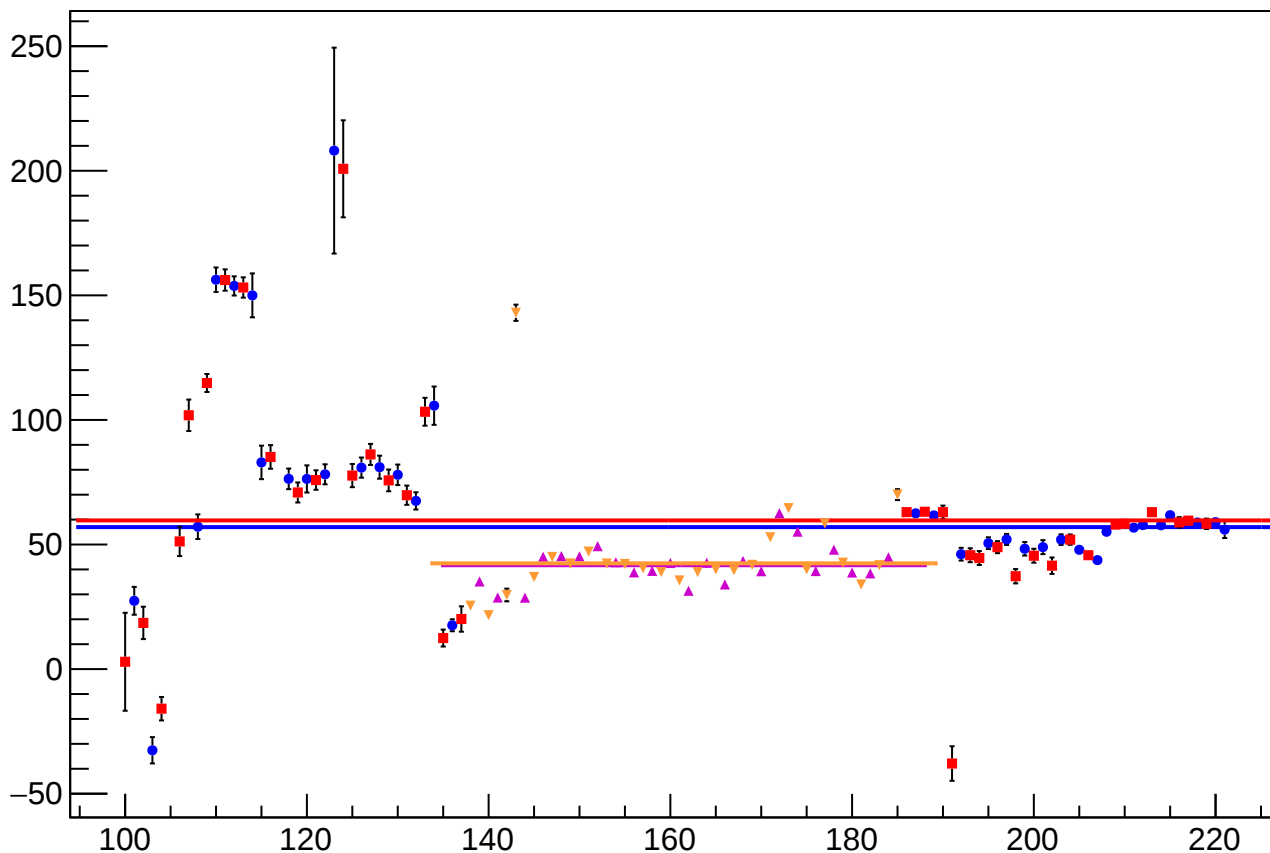
Right: 0.011 ± 0.315 $\chi^2/\text{NDF}: 760.9/71$

In: -3.270 ± 0.204 $\chi^2/\text{NDF}: 979.1/57$

Out: -3.159 ± 0.199 $\chi^2/\text{NDF}: 1224.7/61$

All: -3.213 ± 0.142 $\chi^2/\text{NDF}: 2203.9/119$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.985 $\pm$ 0.424 χ^2 /NDF: 2144.6/34

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.675 $\pm$ 0.395 χ^2 /NDF: 2633.4/36

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

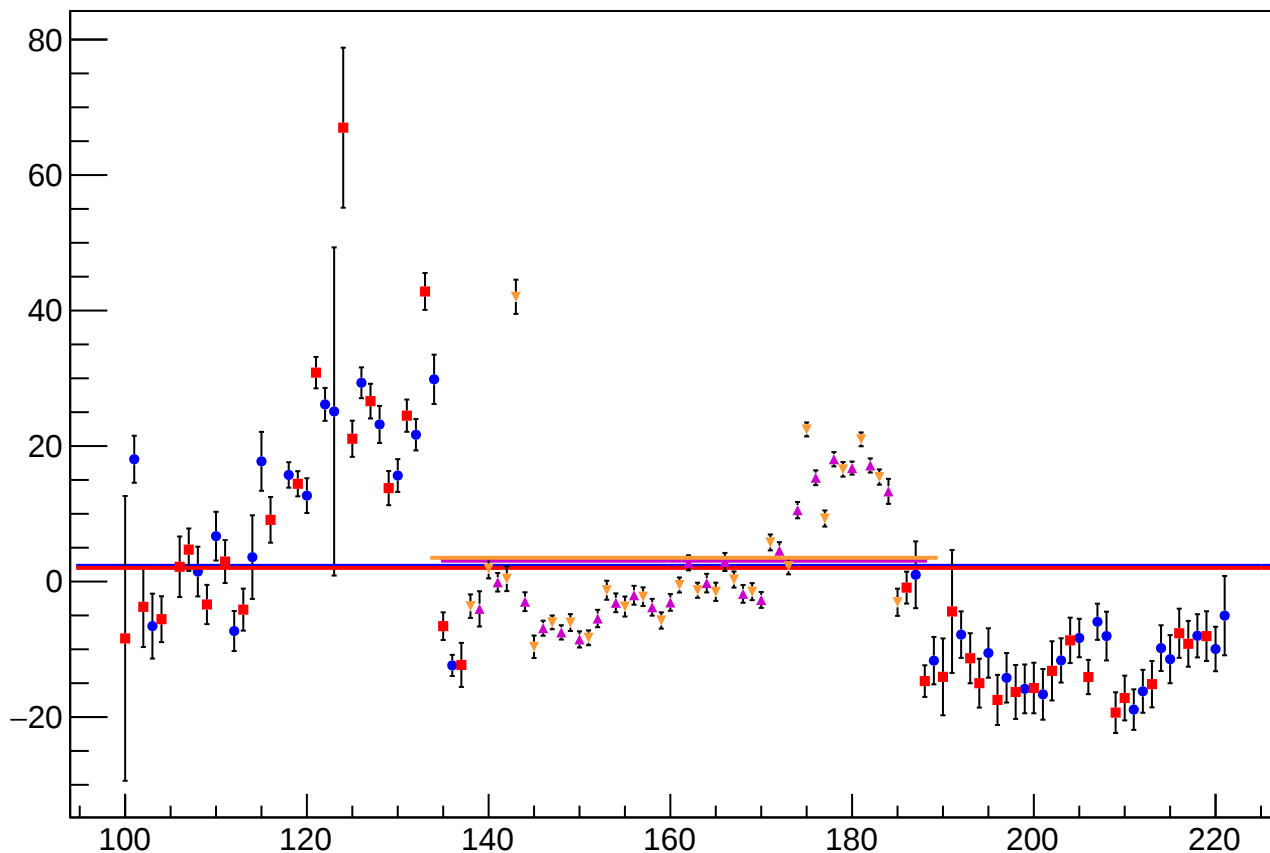
Right: 58.425 $\pm$ 0.289 χ^2 /NDF: 4799.6/71

In: 46.431 $\pm$ 0.236 χ^2 /NDF:3671.9/57

Out: 48.261 $\pm$ 0.230 χ^2 /NDF:5908.0/61

All: 47.372 $\pm$ 0.165 χ^2 /NDF: 9610.8/119

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.317 $\pm$ 0.514 χ^2 /NDF: 955.9/34

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 2.020 $\pm$ 0.510 χ^2 /NDF: 1130.5/36

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

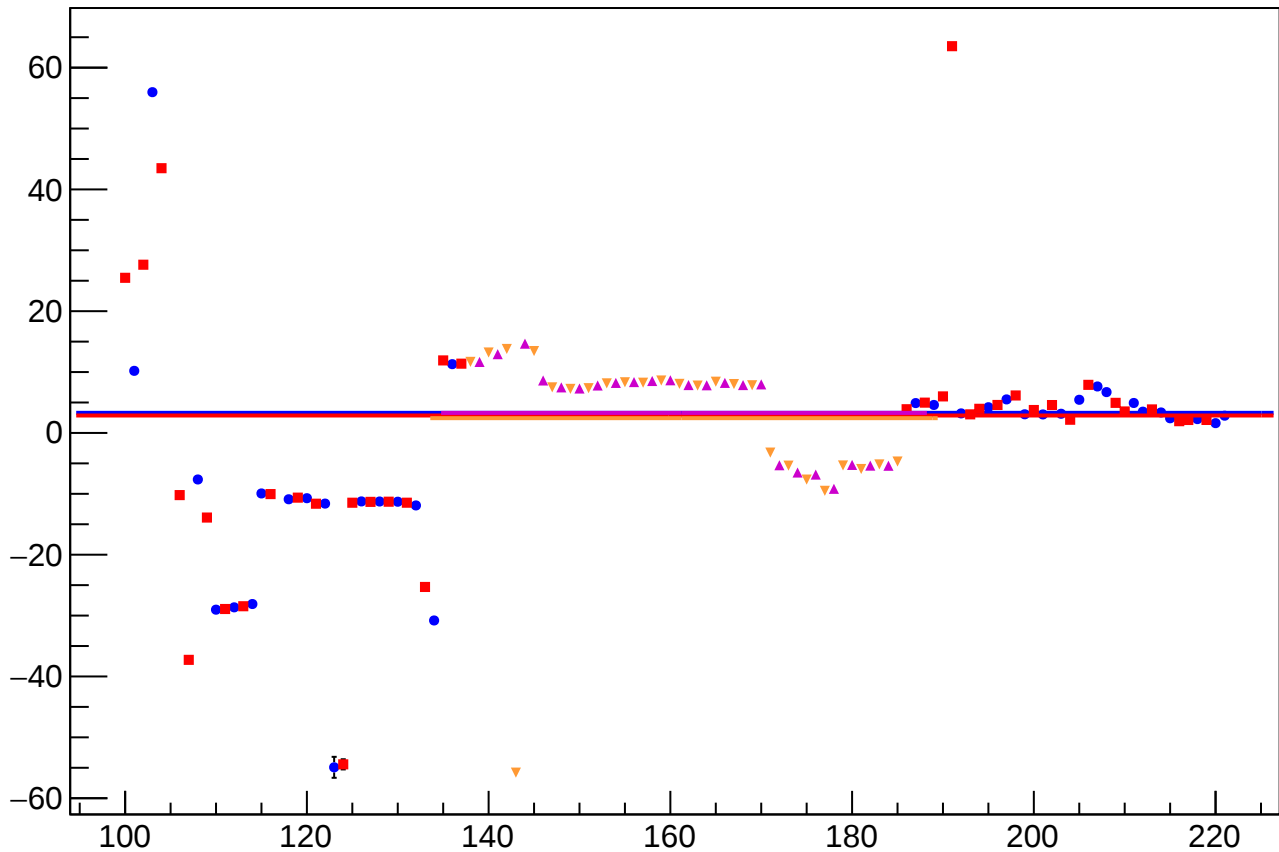
Right: 2.167 $\pm$ 0.362 χ^2 /NDF: 2086.6/71

In: 2.929 $\pm$ 0.230 χ^2 /NDF:2223.4/57

Out: 3.213 $\pm$ 0.226 χ^2 /NDF:2828.6/61

All: 3.073 $\pm$ 0.161 χ^2 /NDF: 5052.8/119

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.303 $\pm$ 0.024 χ^2 /NDF: 362531.7/34

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.865 $\pm$ 0.024 χ^2 /NDF: 434578.6/36

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

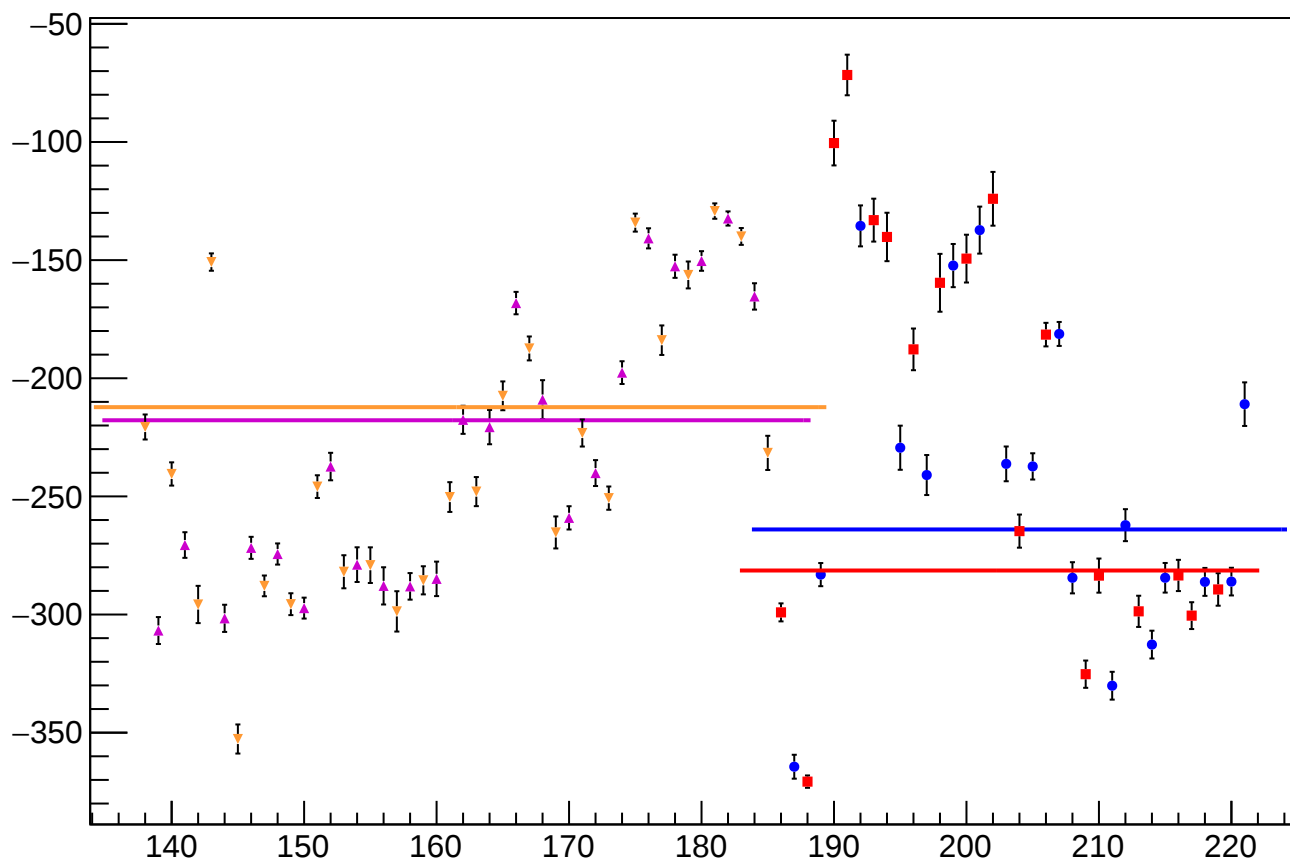
Right: 3.083 $\pm$ 0.017 χ^2 /NDF: 797272.8/71

In: 3.294 $\pm$ 0.011 χ^2 /NDF: 766855.7/57

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051228.6/61

All: 2.898 $\pm$ 0.007 χ^2 /NDF: 1820912.4/119

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.991 ± 1.527 $\chi^2/\text{NDF}: 1541.0/17$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -281.366 ± 1.405 $\chi^2/\text{NDF}: 3666.4/17$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

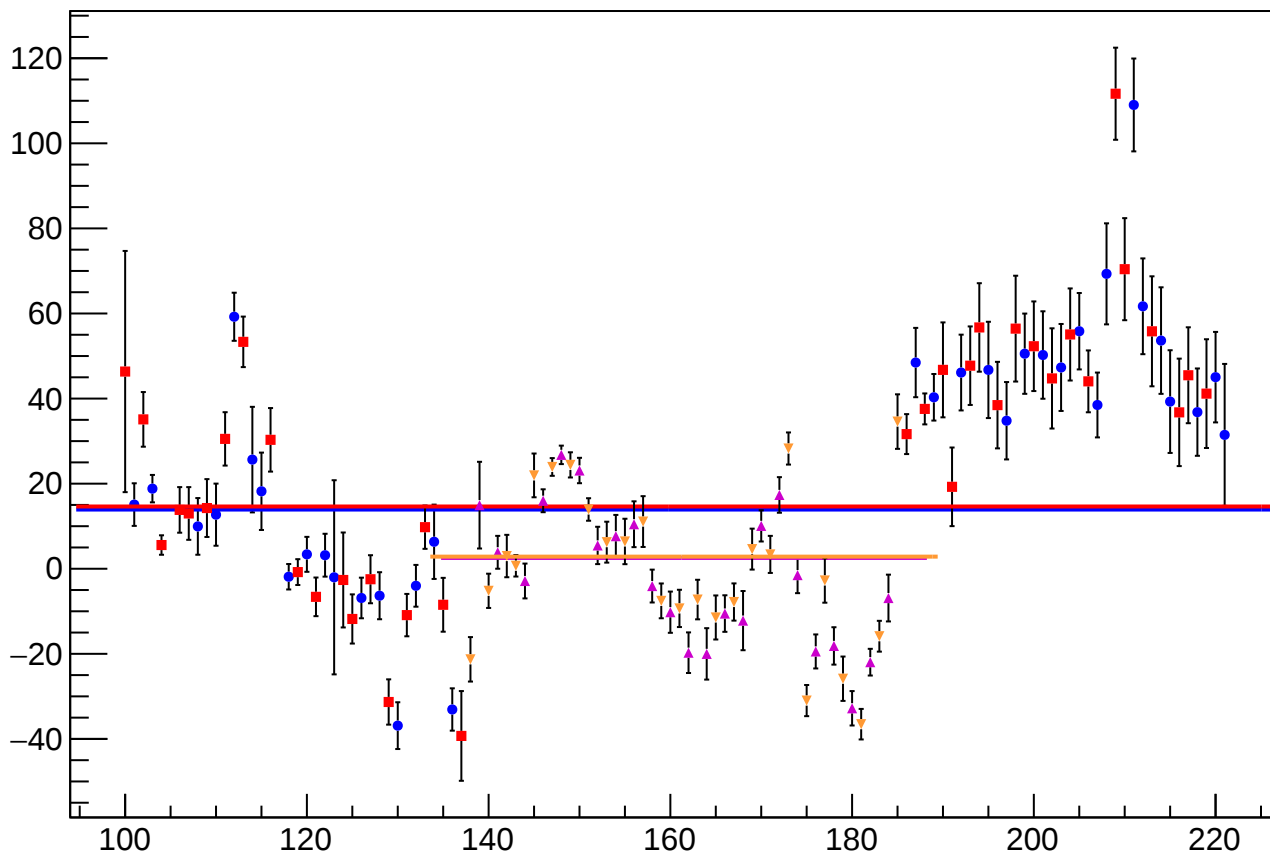
Right: -273.402 ± 1.034 $\chi^2/\text{NDF}: 5277.5/35$

In: -232.932 ± 0.875 $\chi^2/\text{NDF}: 5605.2/40$

Out: -236.378 ± 0.830 $\chi^2/\text{NDF}: 9117.2/42$

All: -234.744 ± 0.602 $\chi^2/\text{NDF}: 14730.6/83$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.914 ± 1.089 χ^2/NDF : 612.0/34

Left Out: 2.848 ± 0.775 χ^2/NDF : 582.1/24

Right Out: 14.631 ± 0.996 χ^2/NDF : 585.9/36

Left In: 2.540 ± 0.822 χ^2/NDF : 473.6/22

Left: 2.703 ± 0.564 χ^2/NDF : 1055.8/47

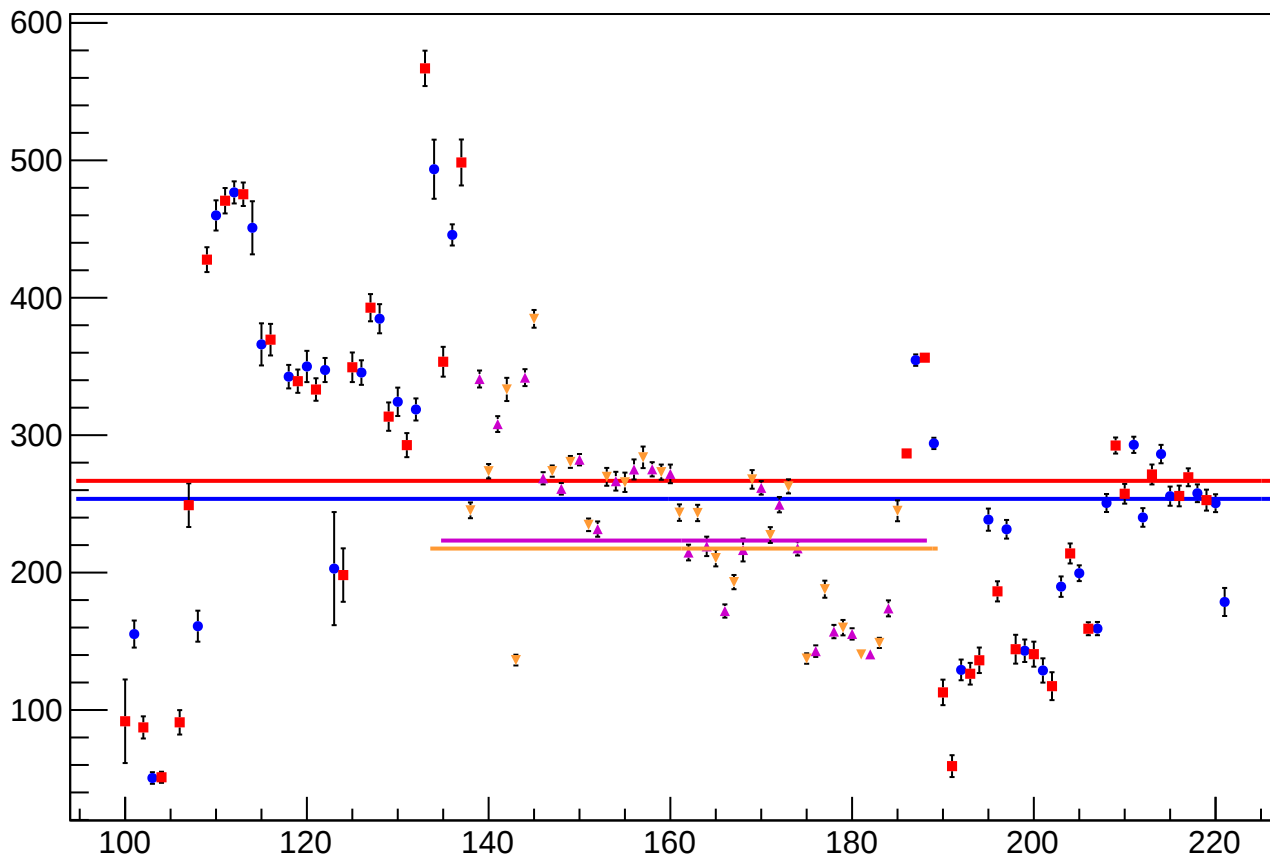
Right: 14.304 ± 0.735 χ^2/NDF : 1198.1/71

In: 6.673 ± 0.656 χ^2/NDF : 1155.1/57

Out: 7.290 ± 0.611 χ^2/NDF : 1255.3/61

All: 7.003 ± 0.447 χ^2/NDF : 2410.8/119

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.638 $\pm$ 1.222 χ^2 /NDF: 7196.2/34

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 266.753 $\pm$ 1.079 χ^2 /NDF: 11058.0/36

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

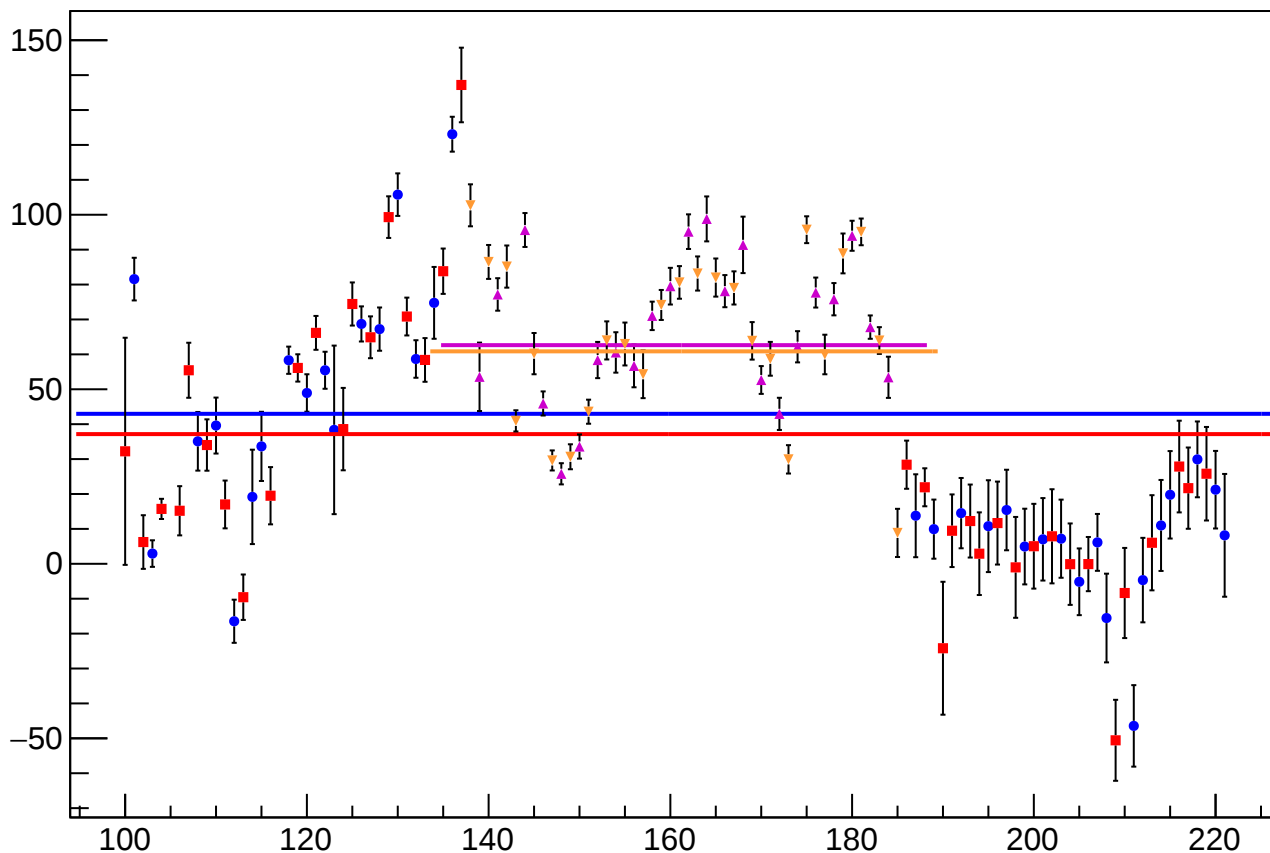
Right: 261.008 $\pm$ 0.809 χ^2 /NDF: 18319.0/71

In: 236.361 $\pm$ 0.801 χ^2 /NDF:10925.3/57

Out: 241.040 $\pm$ 0.746 χ^2 /NDF:15916.5/61

All: 238.869 $\pm$ 0.546 χ^2 /NDF: 26860.0/119

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.967 $\pm$ 1.262 χ^2 /NDF: 925.6/34

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF:731.6/24

Right Out: 37.155 $\pm$ 1.187 χ^2 /NDF: 741.8/36

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

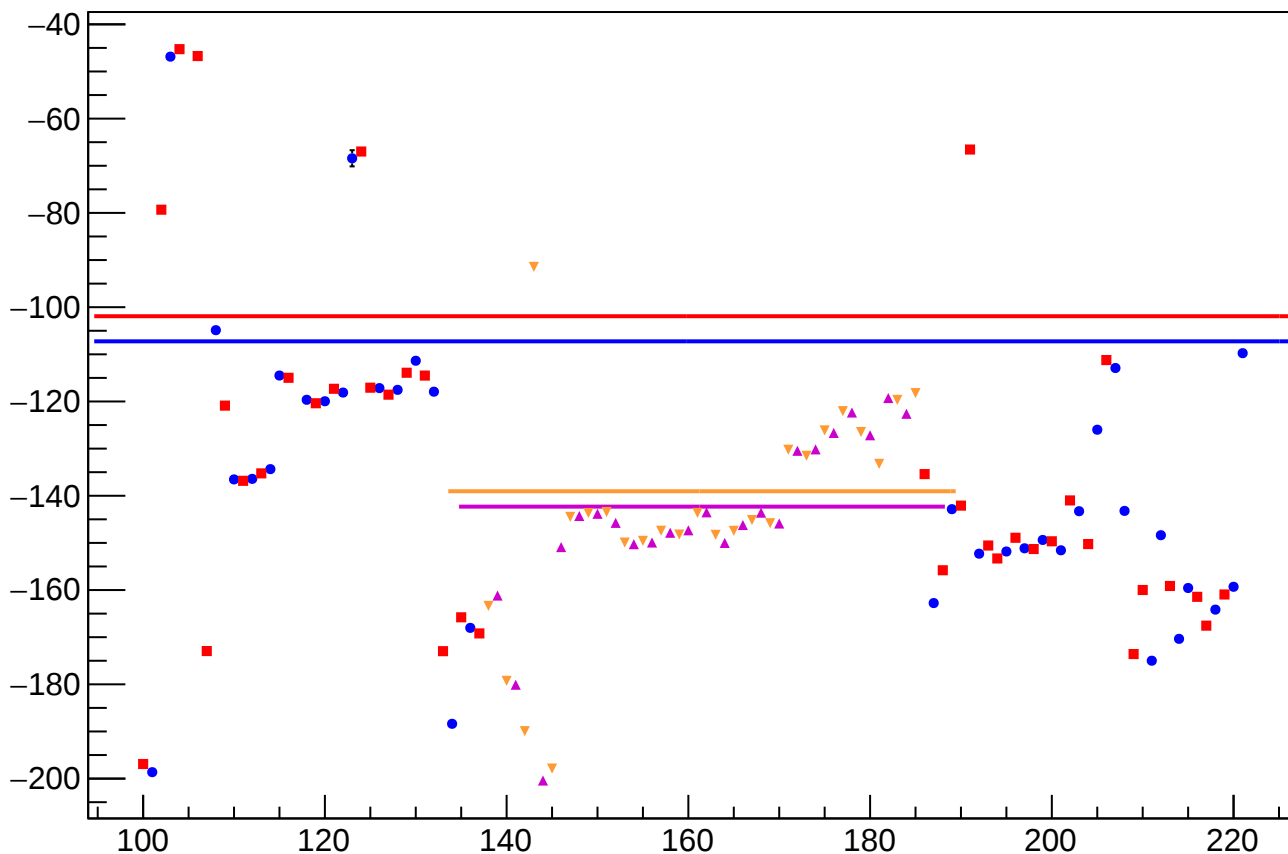
Right: 39.883 $\pm$ 0.864 χ^2 /NDF: 1678.6/71

In: 55.593 $\pm$ 0.755 χ^2 /NDF:1597.0/57

Out: 52.247 $\pm$ 0.715 χ^2 /NDF:1727.5/61

All: 53.830 $\pm$ 0.519 χ^2 /NDF: 3334.8/119

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -107.242 $\pm$ 0.057 χ^2 /NDF: 751634.6/34

Left Out: -139.040 $\pm$ 0.043 χ^2 /NDF: 258113.4/24

Right Out: -101.915 $\pm$ 0.054 χ^2 /NDF: 785773.0/36

Left In: -142.305 $\pm$ 0.044 χ^2 /NDF: 143351.8/22

Left: -140.627 $\pm$ 0.031 χ^2 /NDF: 404285.9/47

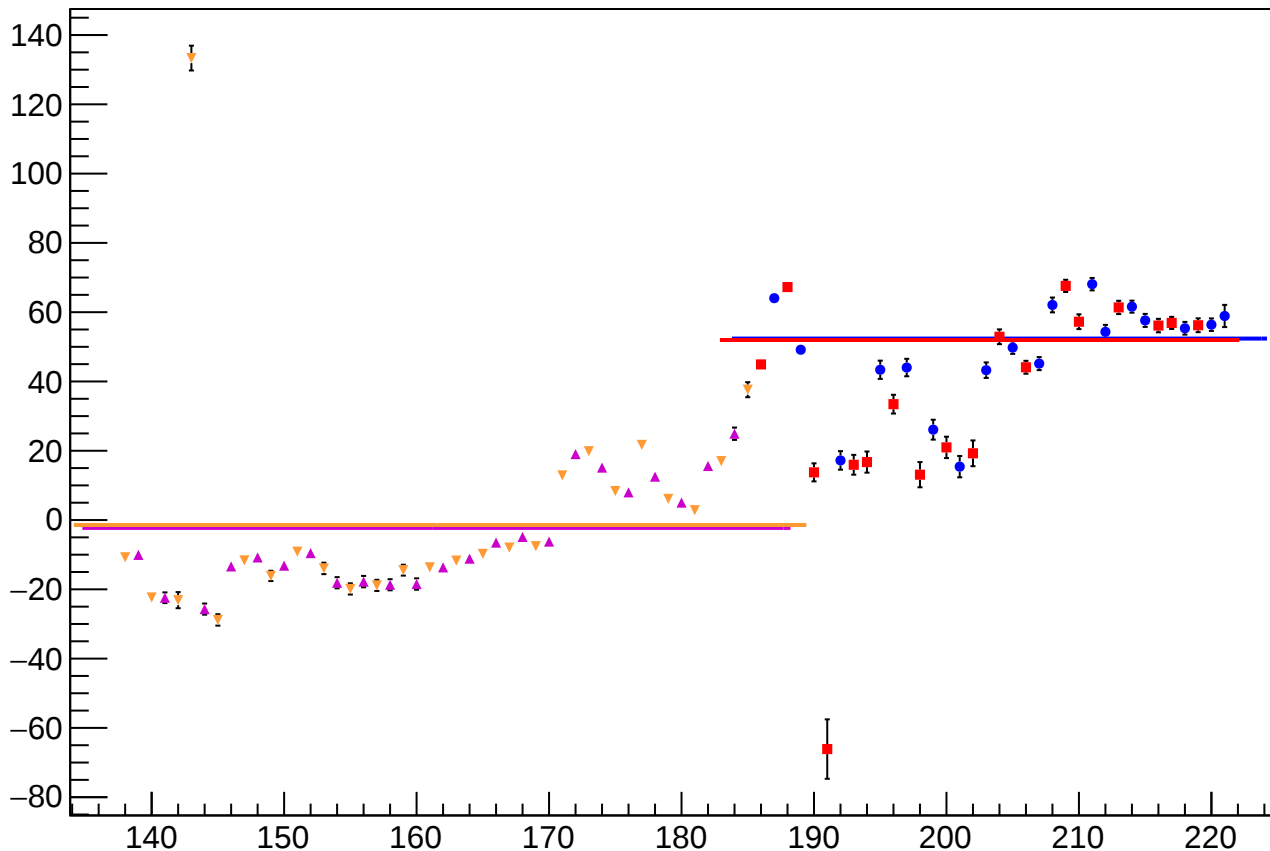
Right: -104.446 $\pm$ 0.039 χ^2 /NDF: 1542026.8/71

In: -129.119 $\pm$ 0.035 χ^2 /NDF: 1132969.3/57

Out: -124.695 $\pm$ 0.034 χ^2 /NDF: 1333676.0/61

All: -126.827 $\pm$ 0.024 χ^2 /NDF: 2475010.5/111

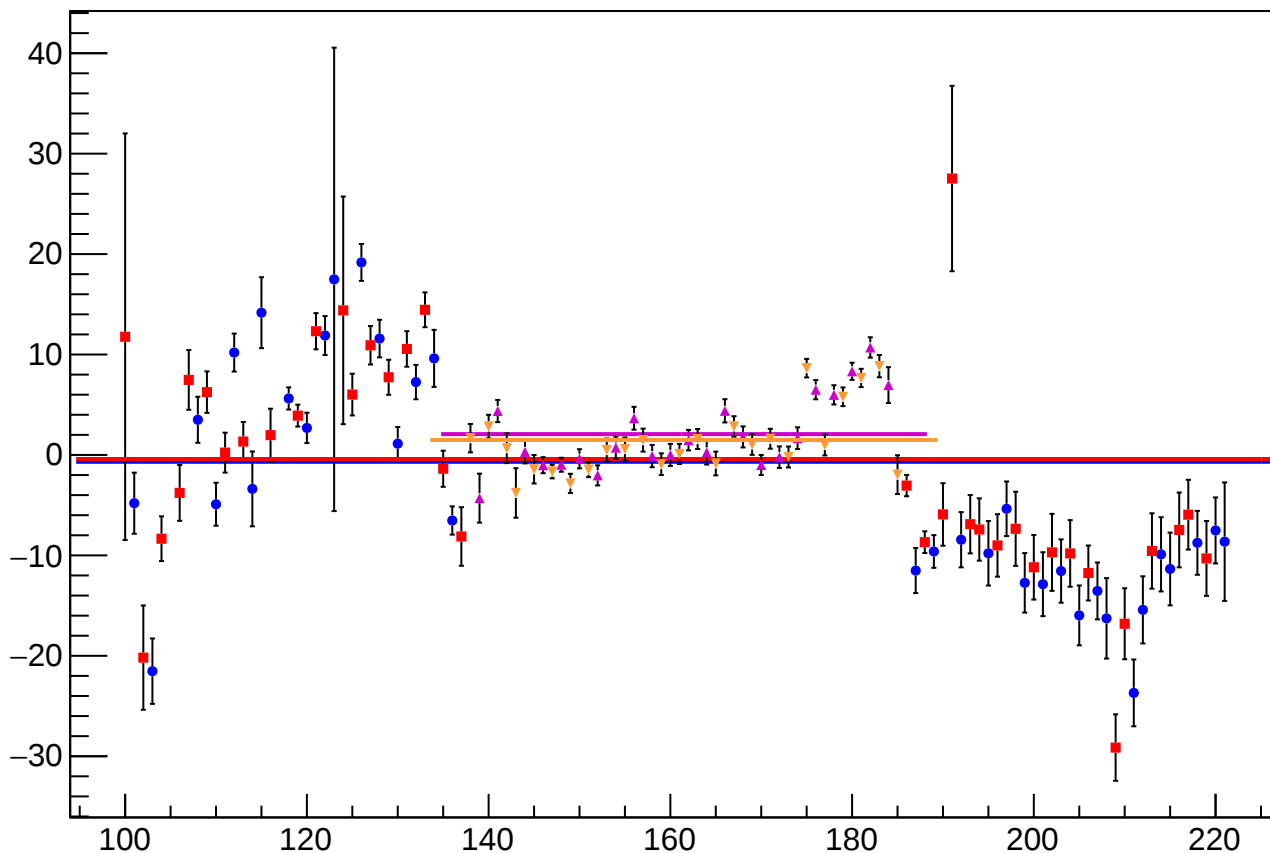
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.380 ± 0.470 $\chi^2/\text{NDF}: 677.1/17$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 51.969 ± 0.410 $\chi^2/\text{NDF}: 1635.0/17$
 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: 52.147 ± 0.309 $\chi^2/\text{NDF}: 2312.5/35$
 In: 11.352 ± 0.235 $\chi^2/\text{NDF}: 13355.1/40$
 Out: 14.522 ± 0.224 $\chi^2/\text{NDF}: 17863.6/42$
 All: 13.009 ± 0.162 $\chi^2/\text{NDF}: 31314.2/83$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.678 ± 0.390 χ^2/NDF : 667.2/34

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.404 ± 0.363 χ^2/NDF : 557.8/36

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

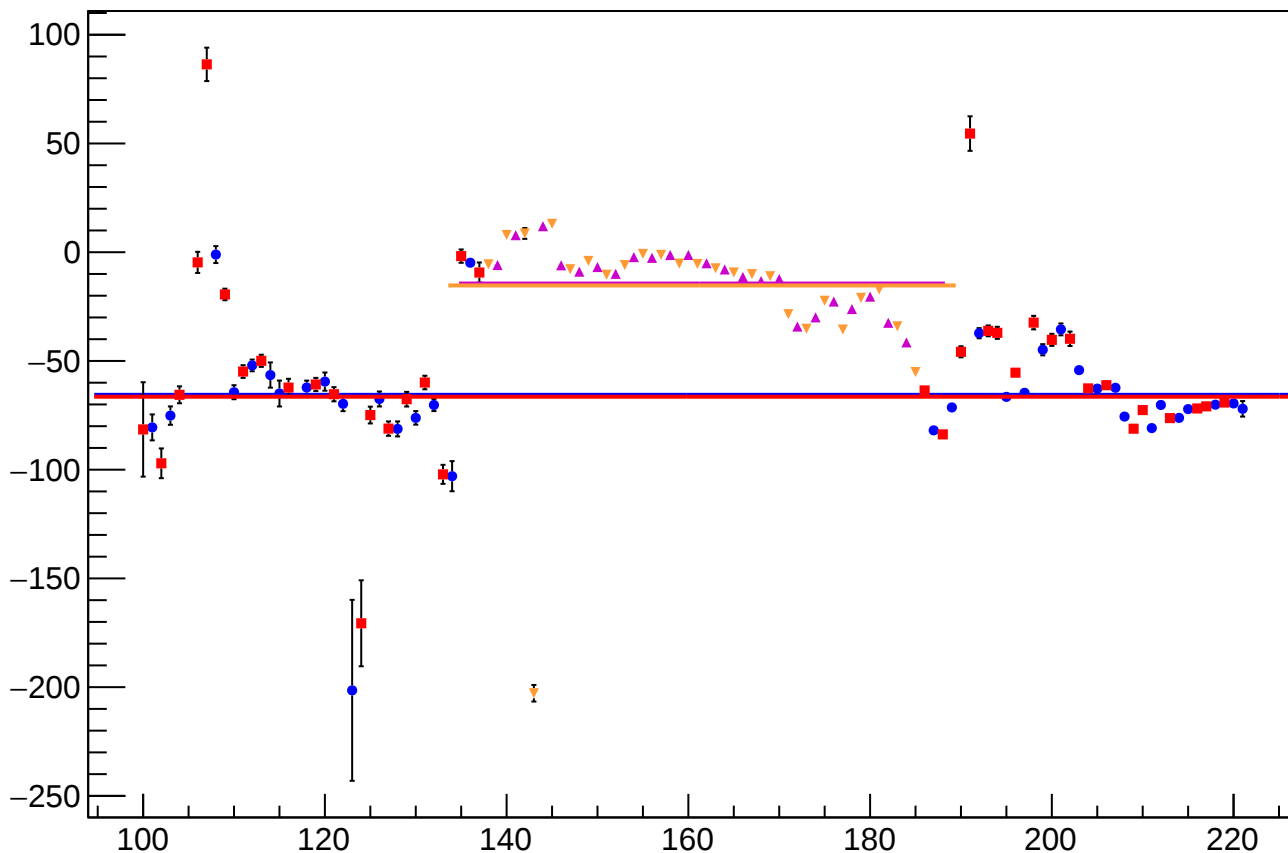
Right: -0.532 ± 0.266 χ^2/NDF : 1225.3/71

In: 1.430 ± 0.188 χ^2/NDF : 980.0/57

Out: 1.015 ± 0.182 χ^2/NDF : 837.3/61

All: 1.216 ± 0.131 χ^2/NDF : 1819.8/119

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.583+/-0.399 χ^2/NDF : 1923.3/34

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.444+/-0.334 χ^2/NDF : 3433.7/36

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

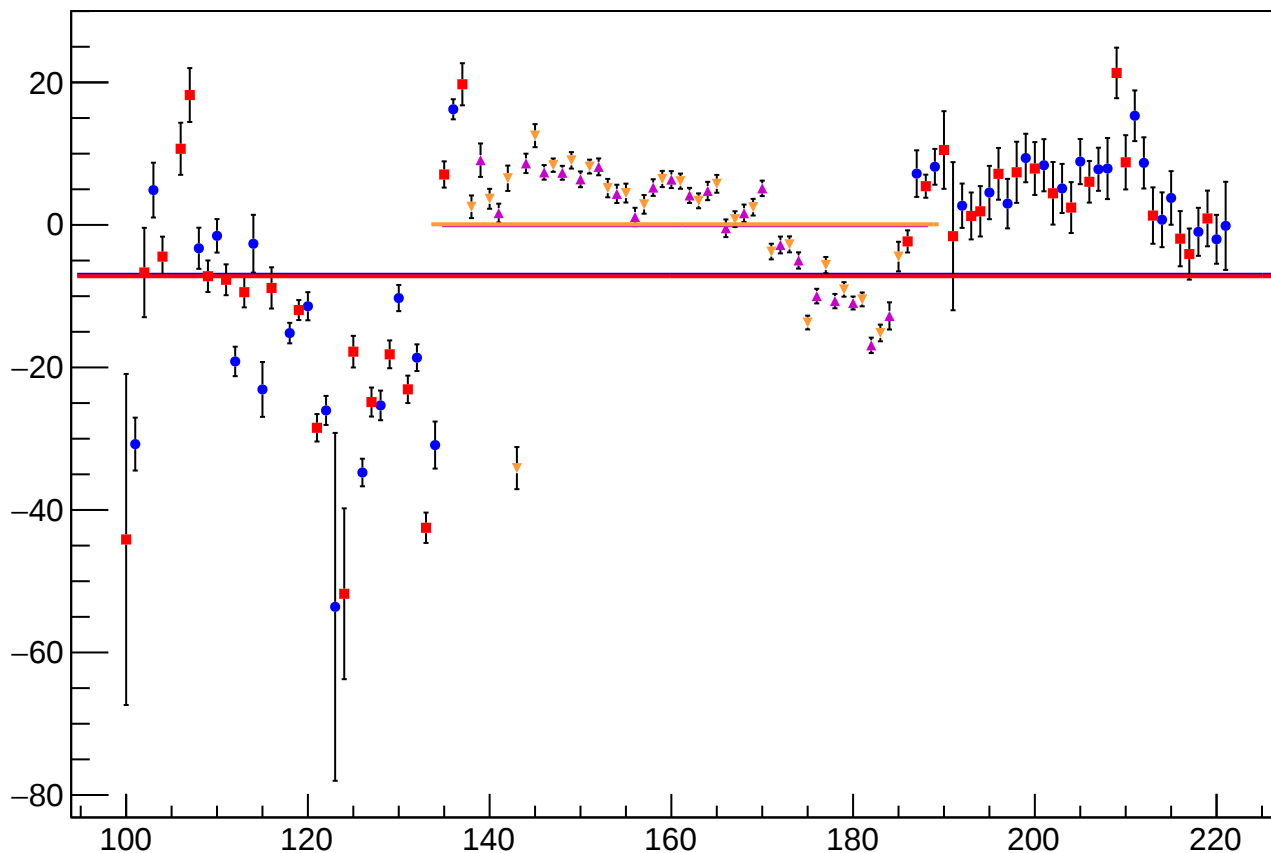
Right: -66.088+/-0.256 χ^2/NDF : 5359.7/71

In: -30.418+/-0.223 χ^2/NDF : 15271.4/57

Out: -35.182+/-0.209 χ^2/NDF : 22560.6/61

All: -32.960+/-0.152 χ^2/NDF : 38075.3/119

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.993 ± 0.448 χ^2/NDF : 1162.4/34

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.201 ± 0.433 χ^2/NDF : 1104.5/36

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

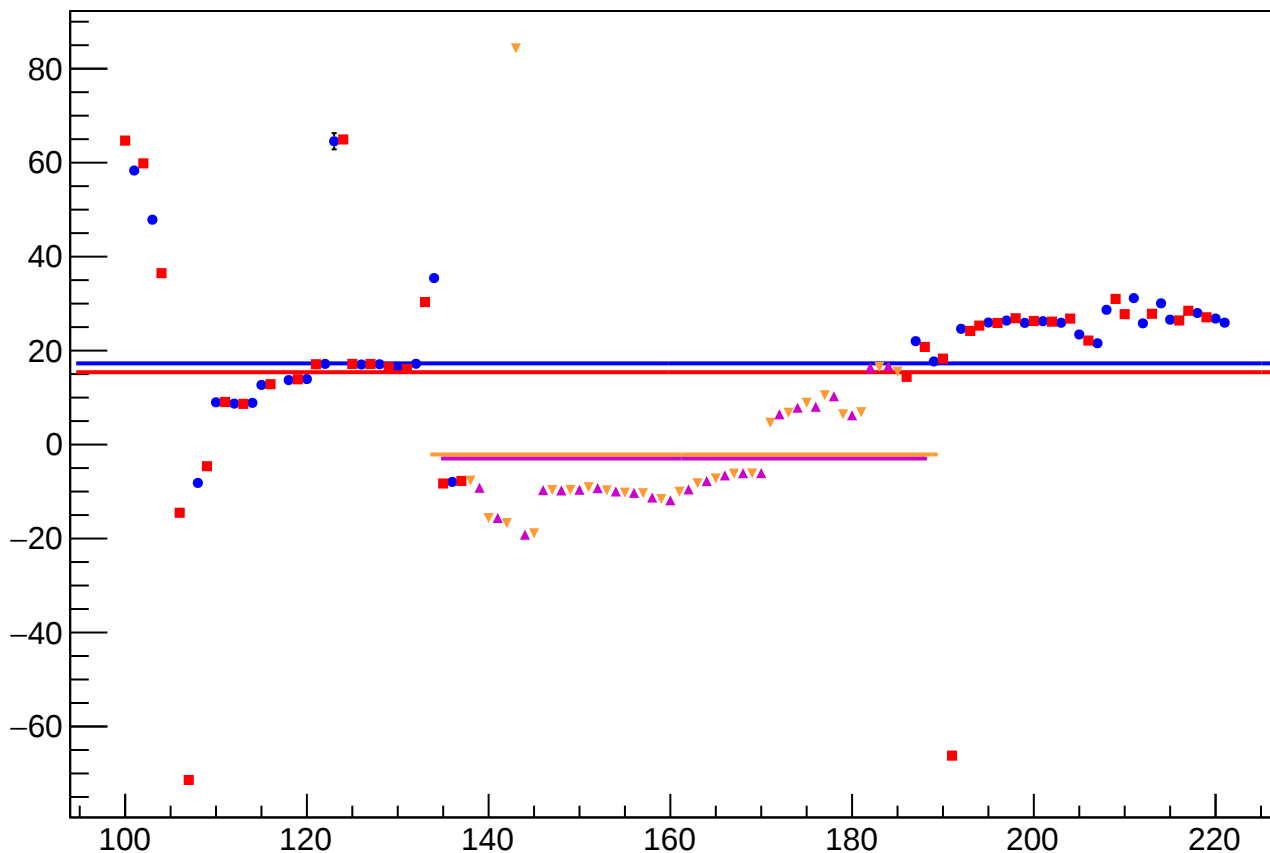
Right: -7.101 ± 0.312 χ^2/NDF : 2267.0/71

In: -1.622 ± 0.214 χ^2/NDF : 2376.2/57

Out: -1.606 ± 0.209 χ^2/NDF : 2494.2/61

All: -1.614 ± 0.149 χ^2/NDF : 4870.4/119

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.283+/-0.022 χ^2/NDF : 498477.8/34

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.402+/-0.022 χ^2/NDF : 776652.2/36

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

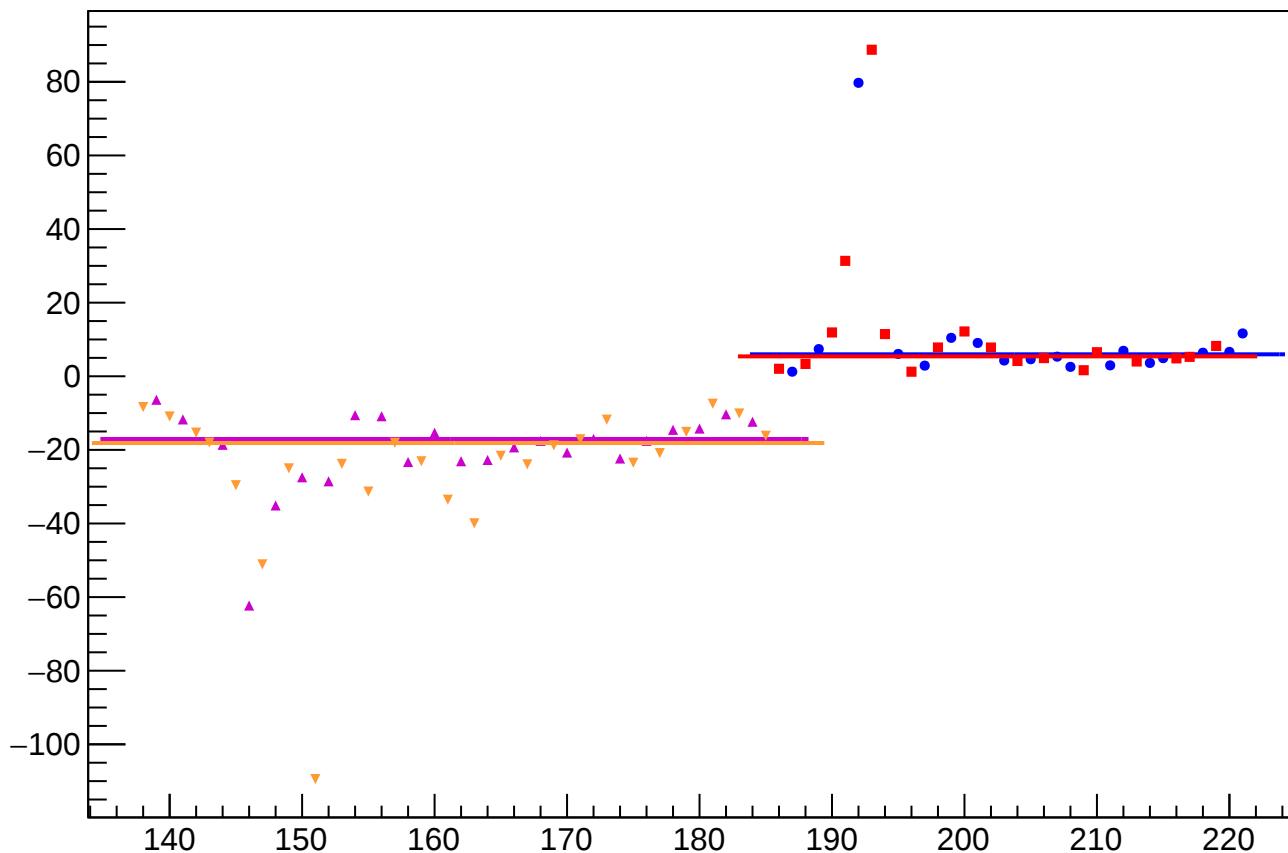
Right: 16.331+/-0.016 χ^2/NDF : 1278706.3/71

In: 0.985+/-0.010 χ^2/NDF : 1921078.8/57

Out: 1.331+/-0.010 χ^2/NDF : 2374003.5/61

All: 1.159+/-0.007 χ^2/NDF : 4295700.6/119

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.963 $\pm$ 0.045 χ^2 /NDF: 27223.5/17

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 5.403 $\pm$ 0.045 χ^2 /NDF: 27114.4/17

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

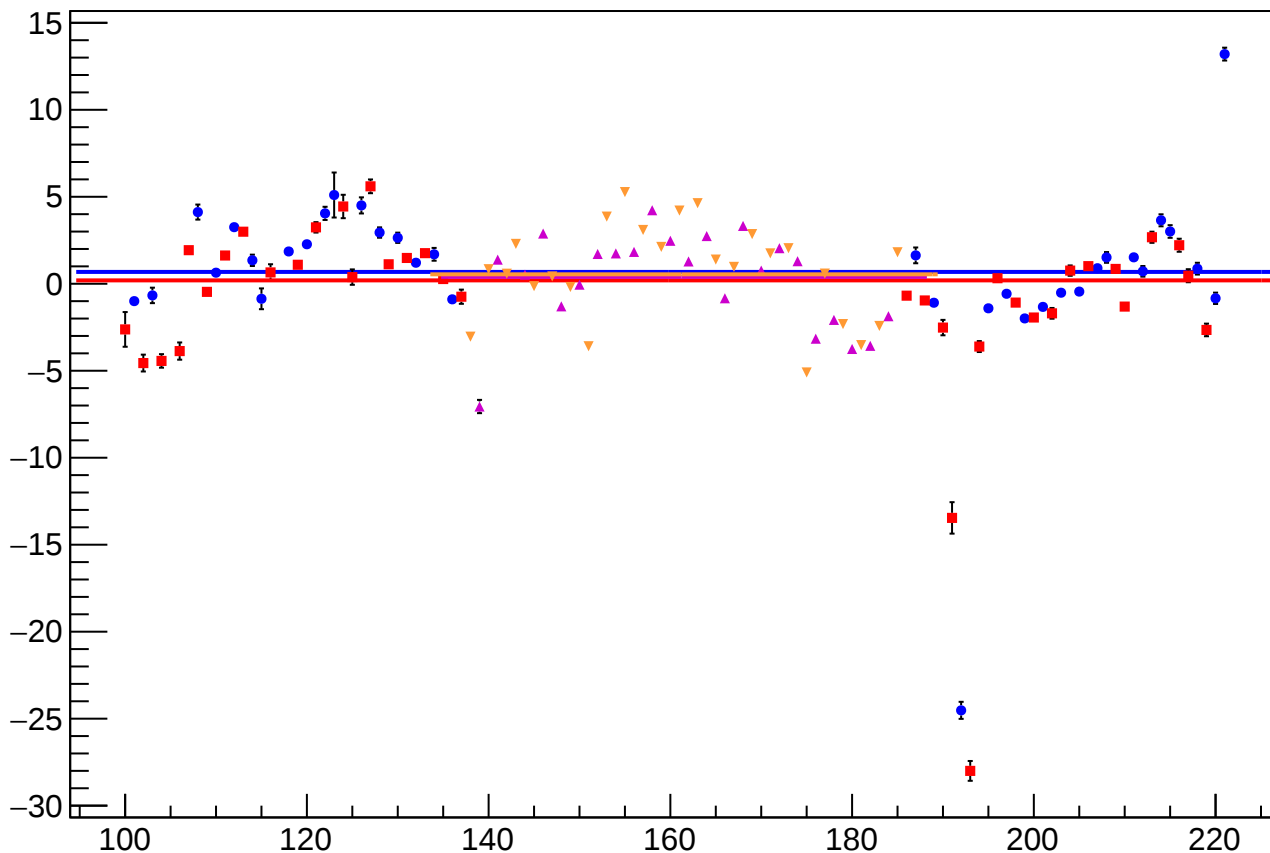
Right: 5.687 $\pm$ 0.032 χ^2 /NDF: 54415.8/35

In: -7.301 $\pm$ 0.029 χ^2 /NDF: 225230.2/40

Out: -8.105 $\pm$ 0.029 χ^2 /NDF: 271427.2/42

All: -7.696 $\pm$ 0.021 χ^2 /NDF: 497035.7/83

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.681 ± 0.045 $\chi^2/\text{NDF}: 5176.3/34$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.194 ± 0.043 $\chi^2/\text{NDF}: 4450.6/36$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

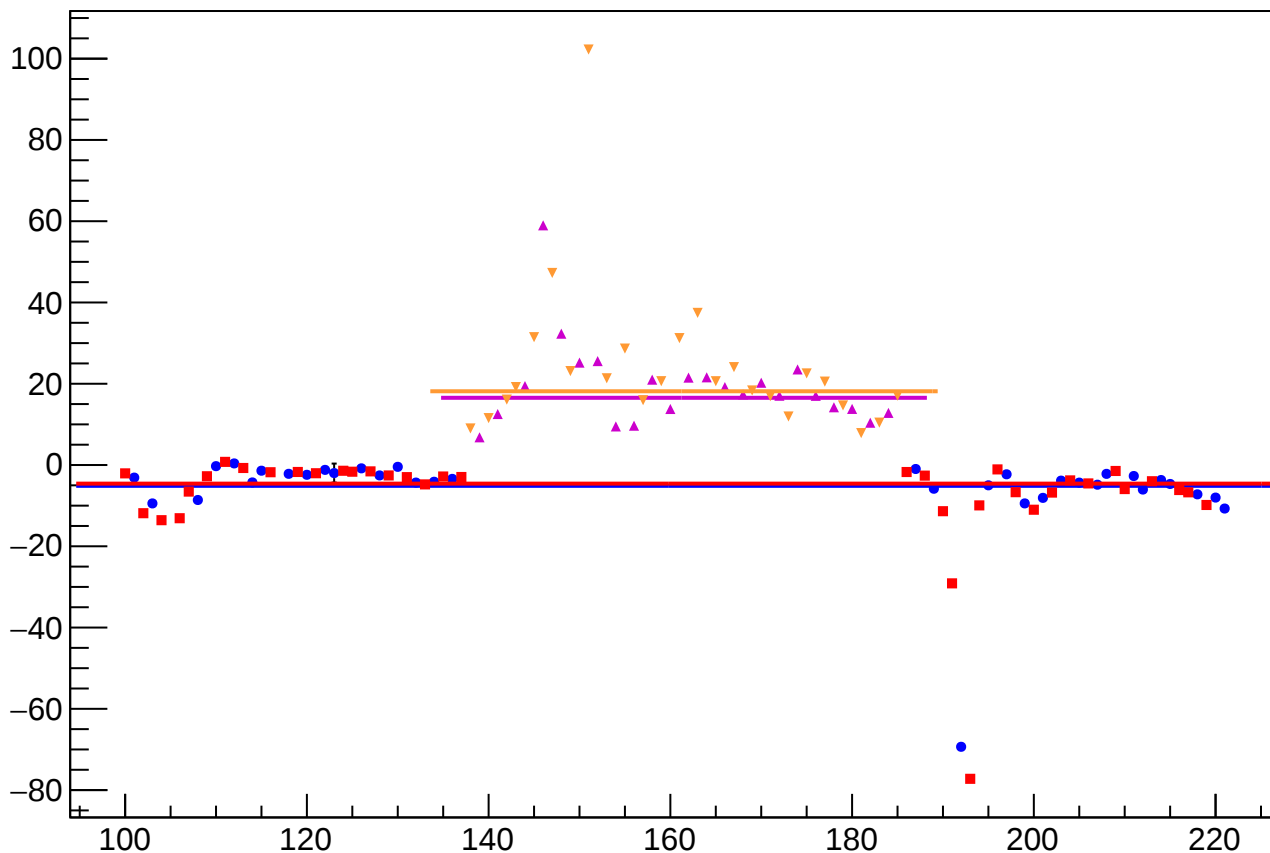
Right: 0.429 ± 0.031 $\chi^2/\text{NDF}: 9687.7/71$

In: 0.487 ± 0.025 $\chi^2/\text{NDF}: 11439.2/57$

Out: 0.418 ± 0.026 $\chi^2/\text{NDF}: 11577.5/61$

All: 0.454 ± 0.018 $\chi^2/\text{NDF}: 23020.3/119$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.118+/-0.040 χ^2/NDF : 28230.9/34

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.582+/-0.039 χ^2/NDF : 29038.1/36

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

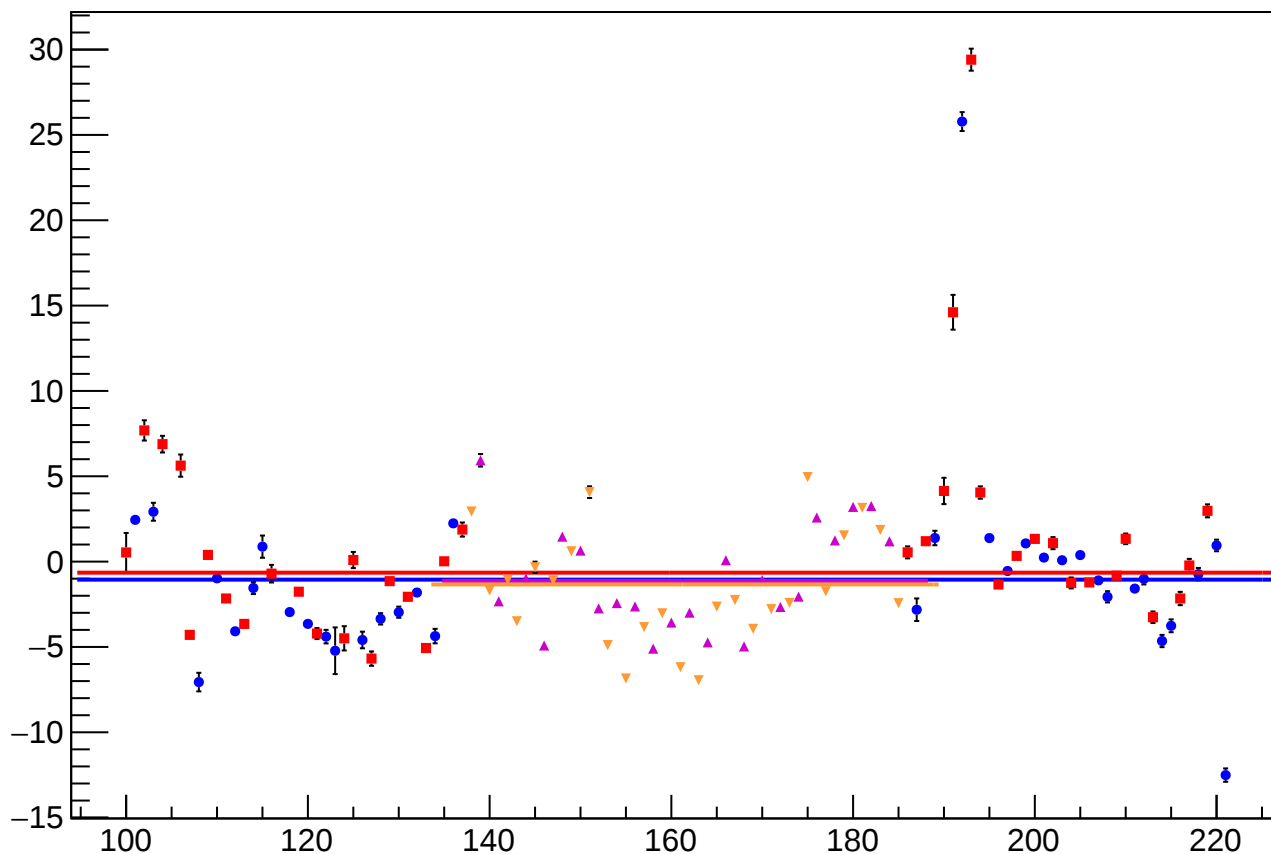
Right: -4.840+/-0.028 χ^2/NDF : 57360.5/71

In: 6.445+/-0.028 χ^2/NDF : 222502.7/57

Out: 6.730+/-0.028 χ^2/NDF : 276739.5/61

All: 6.588+/-0.020 χ^2/NDF : 499295.3/119

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.056 ± 0.051 $\chi^2/\text{NDF}: 5010.3/34$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.648 ± 0.050 $\chi^2/\text{NDF}: 4683.2/36$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

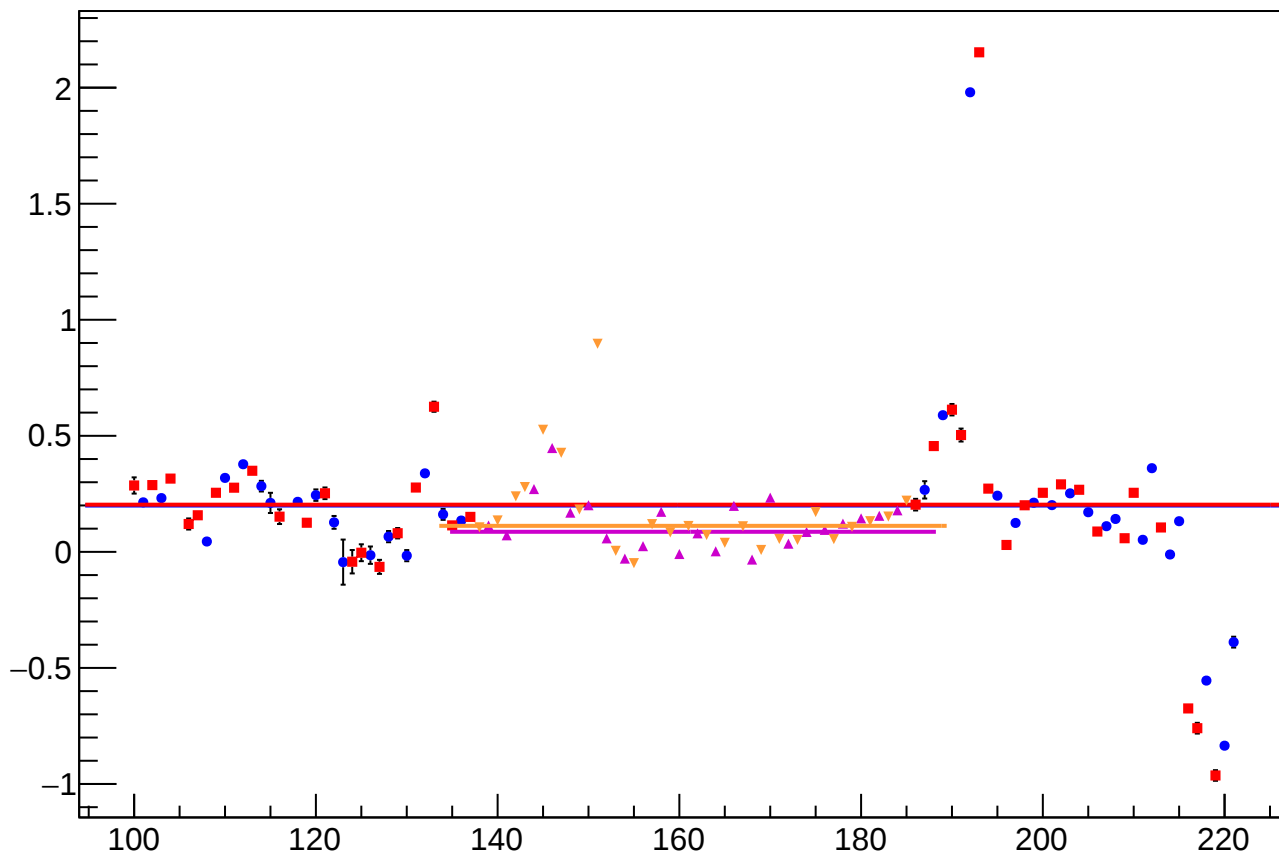
Right: -0.847 ± 0.036 $\chi^2/\text{NDF}: 9726.1/71$

In: -1.107 ± 0.028 $\chi^2/\text{NDF}: 11751.9/57$

Out: -1.102 ± 0.029 $\chi^2/\text{NDF}: 12752.3/61$

All: -1.105 ± 0.020 $\chi^2/\text{NDF}: 24504.3/119$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.200 ± 0.002 $\chi^2/\text{NDF}: 16469.3/34$

Left Out: 0.112 ± 0.002 $\chi^2/\text{NDF}: 4503.9/24$

Right Out: 0.203 ± 0.002 $\chi^2/\text{NDF}: 18310.7/36$

Left In: 0.087 ± 0.002 $\chi^2/\text{NDF}: 3655.4/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8295.3/47$

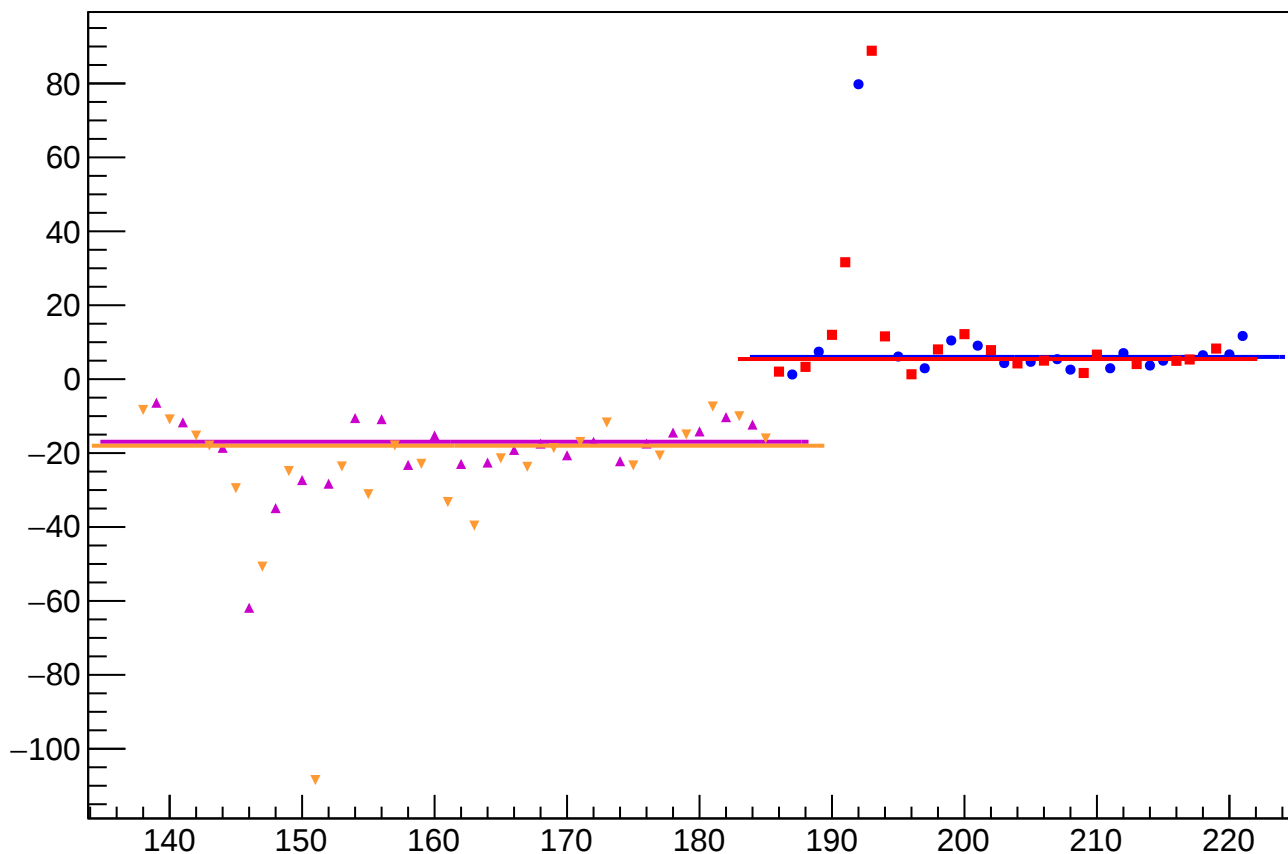
Right: 0.202 ± 0.002 $\chi^2/\text{NDF}: 34781.2/71$

In: 0.120 ± 0.001 $\chi^2/\text{NDF}: 21812.8/57$

Out: 0.142 ± 0.001 $\chi^2/\text{NDF}: 23885.4/61$

All: 0.131 ± 0.001 $\chi^2/\text{NDF}: 45846.6/119$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.016+/-0.044 χ^2/NDF : 27447.9/17

Left Out: -18.005+/-0.039 χ^2/NDF : 88391.0/24

Right Out: 5.449+/-0.045 χ^2/NDF : 27470.4/17

Left In: -16.934+/-0.038 χ^2/NDF : 44060.6/22

Left: -17.459+/-0.027 χ^2/NDF : 132843.0/47

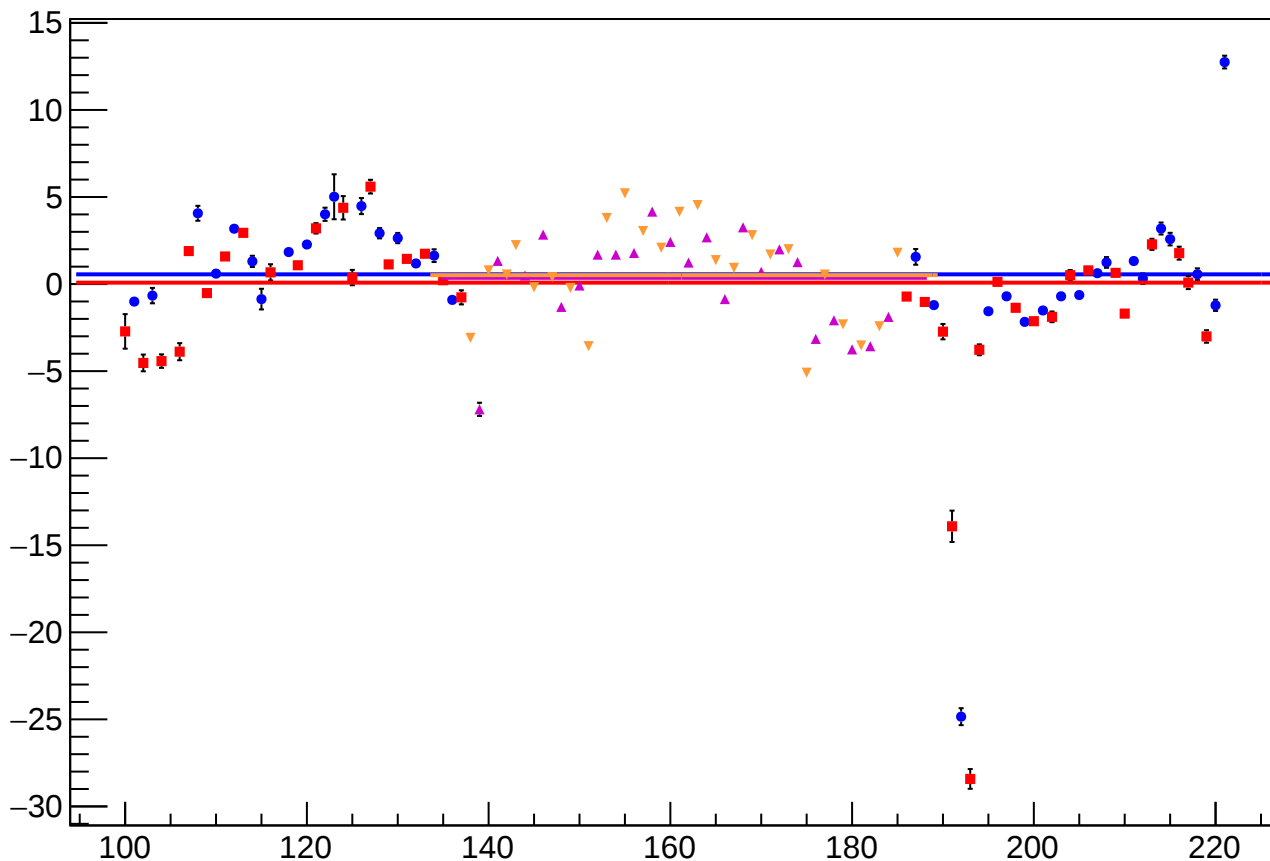
Right: 5.736+/-0.032 χ^2/NDF : 54999.1/35

In: -7.243+/-0.029 χ^2/NDF : 226319.1/40

Out: -8.026+/-0.029 χ^2/NDF : 272604.7/42

All: -7.628+/-0.021 χ^2/NDF : 499286.9/83

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.559+/-0.045 χ^2/NDF : 5232.4/34

Left Out: 0.511+/-0.032 χ^2/NDF : 7070.4/24

Right Out: 0.081+/-0.043 χ^2/NDF : 4609.1/36

Left In: 0.360+/-0.031 χ^2/NDF : 6221.1/22

Left: 0.432+/-0.022 χ^2/NDF : 13303.2/47

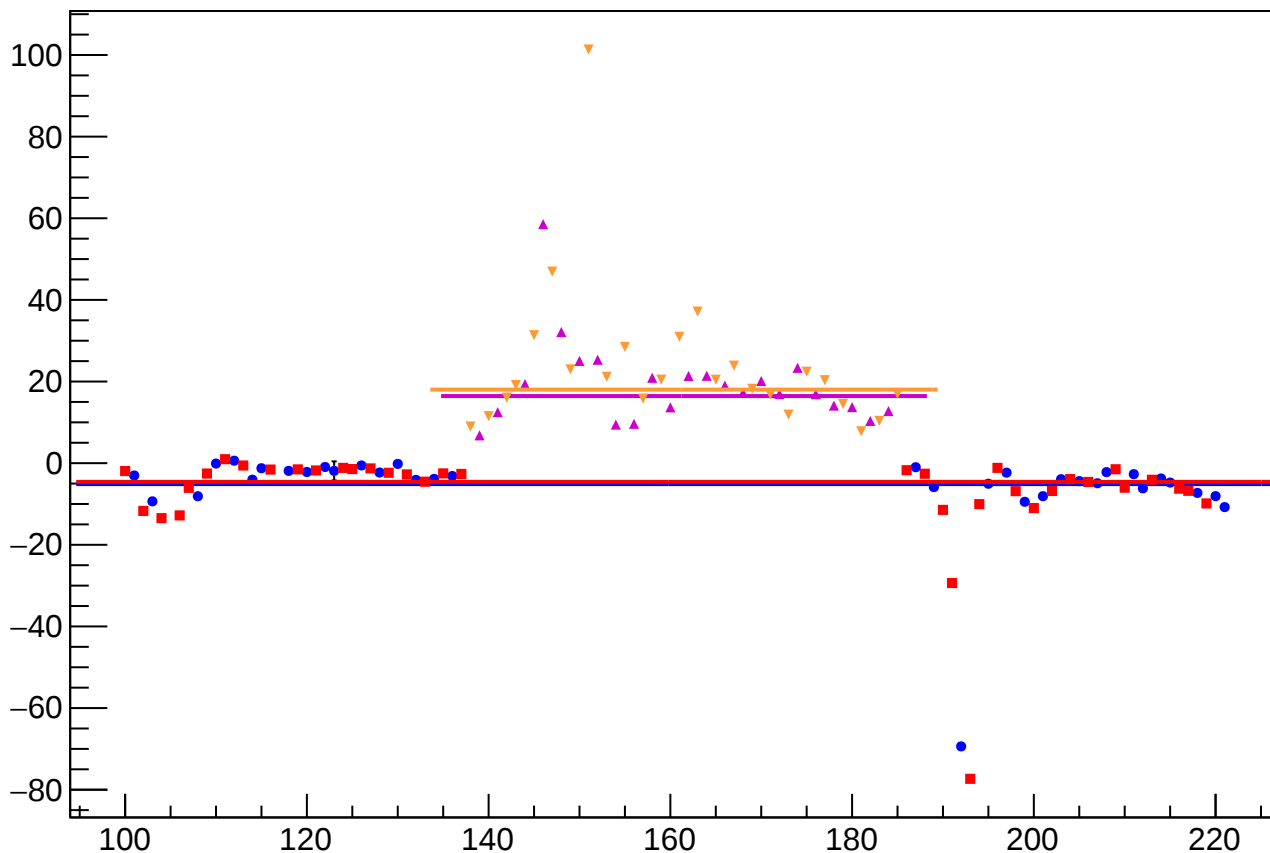
Right: 0.311+/-0.031 χ^2/NDF : 9900.5/71

In: 0.423+/-0.025 χ^2/NDF : 11467.0/57

Out: 0.358+/-0.026 χ^2/NDF : 11743.5/61

All: 0.391+/-0.018 χ^2/NDF : 23213.7/119

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.129+/-0.040 χ^2/NDF : 28587.5/34

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.575+/-0.039 χ^2/NDF : 29534.9/36

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

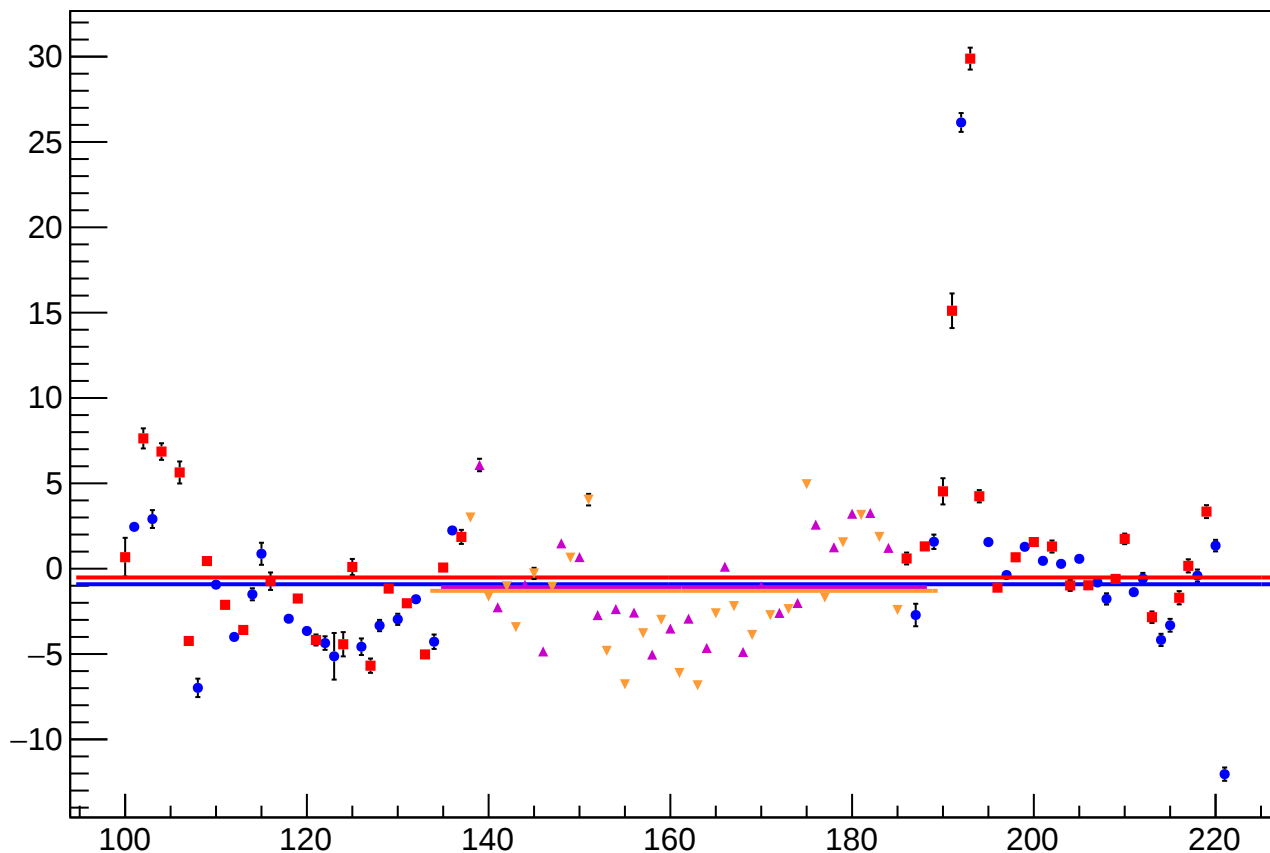
Right: -4.841+/-0.028 χ^2/NDF : 58221.1/71

In: 6.410+/-0.027 χ^2/NDF : 223195.0/57

Out: 6.679+/-0.027 χ^2/NDF : 277442.7/61

All: 6.545+/-0.019 χ^2/NDF : 500685.9/119

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

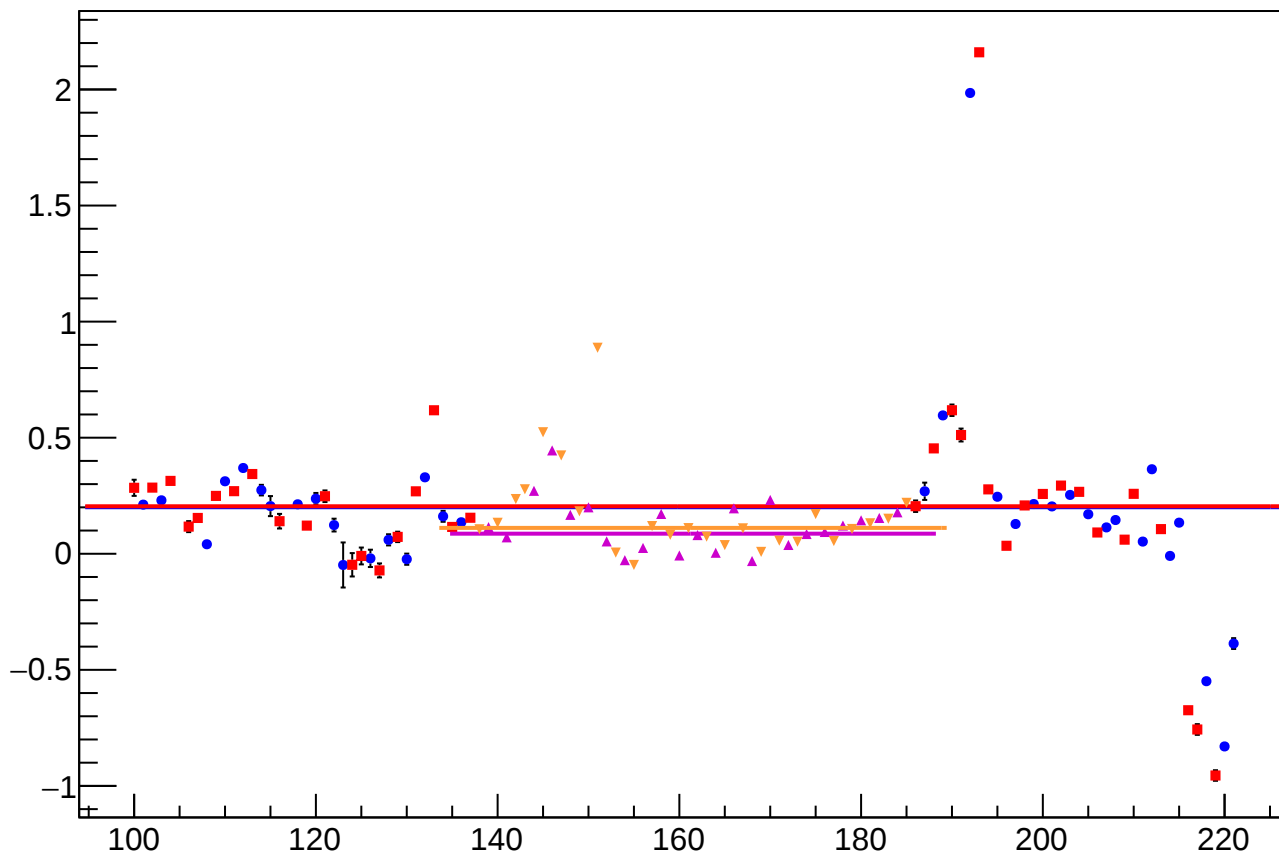


Right In: -0.912 ± 0.051 $\chi^2/\text{NDF}: 5053.2/34$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.515 ± 0.050 $\chi^2/\text{NDF}: 4844.7/36$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.708 ± 0.036 $\chi^2/\text{NDF}: 9929.1/71$
 In: -1.030 ± 0.028 $\chi^2/\text{NDF}: 11784.9/57$
 Out: -1.030 ± 0.029 $\chi^2/\text{NDF}: 12933.9/61$

All: -1.030 ± 0.020 $\chi^2/\text{NDF}: 24718.8/119$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.200 $\pm$ 0.002 χ^2 /NDF: 16605.5/34

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.205 $\pm$ 0.002 χ^2 /NDF: 18459.9/36

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3625.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8251.9/47

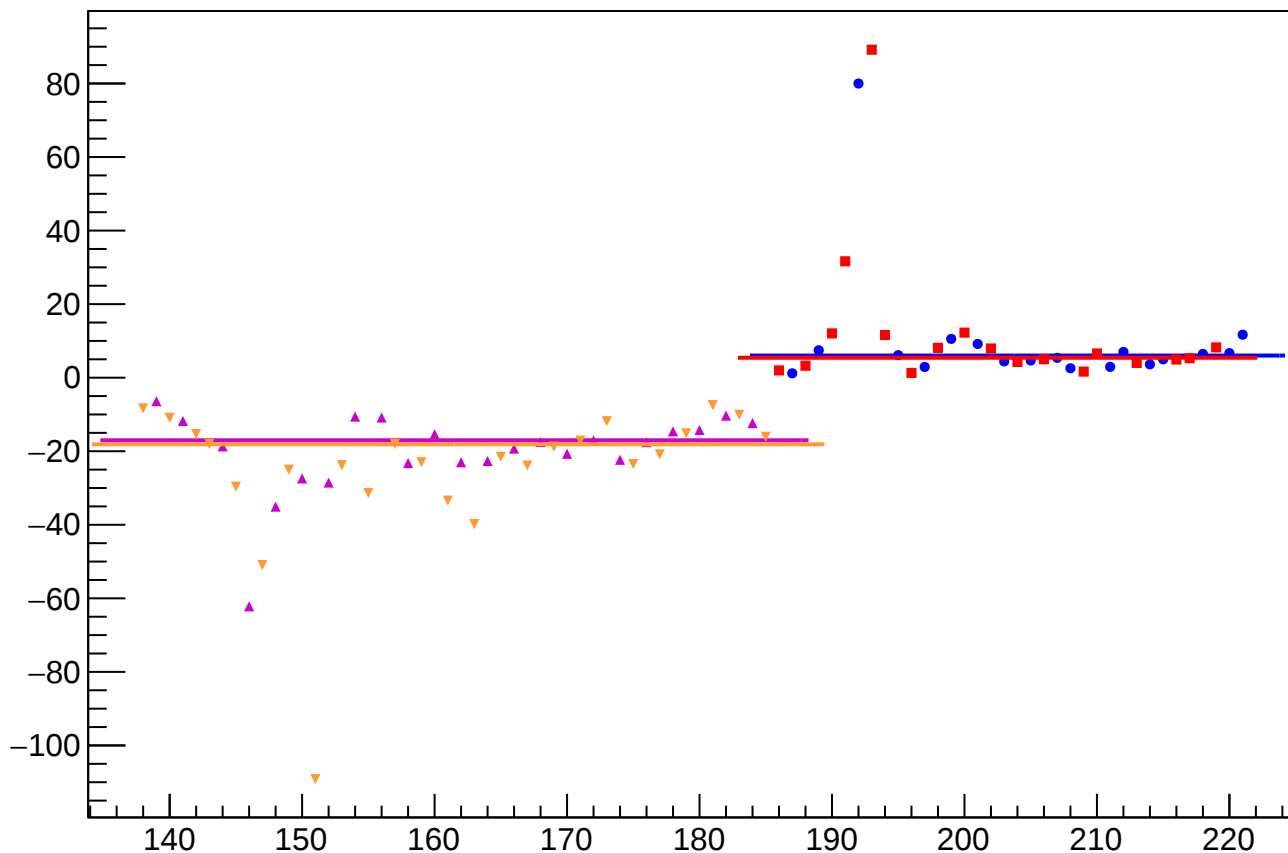
Right: 0.203 $\pm$ 0.002 χ^2 /NDF: 35067.0/71

In: 0.120 $\pm$ 0.001 χ^2 /NDF:21960.7/57

Out: 0.142 $\pm$ 0.001 χ^2 /NDF:24084.9/61

All: 0.131 $\pm$ 0.001 χ^2 /NDF: 46191.8/119

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.016+/-0.045 χ^2/NDF : 27432.6/17

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 5.423+/-0.045 χ^2/NDF : 27487.5/17

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

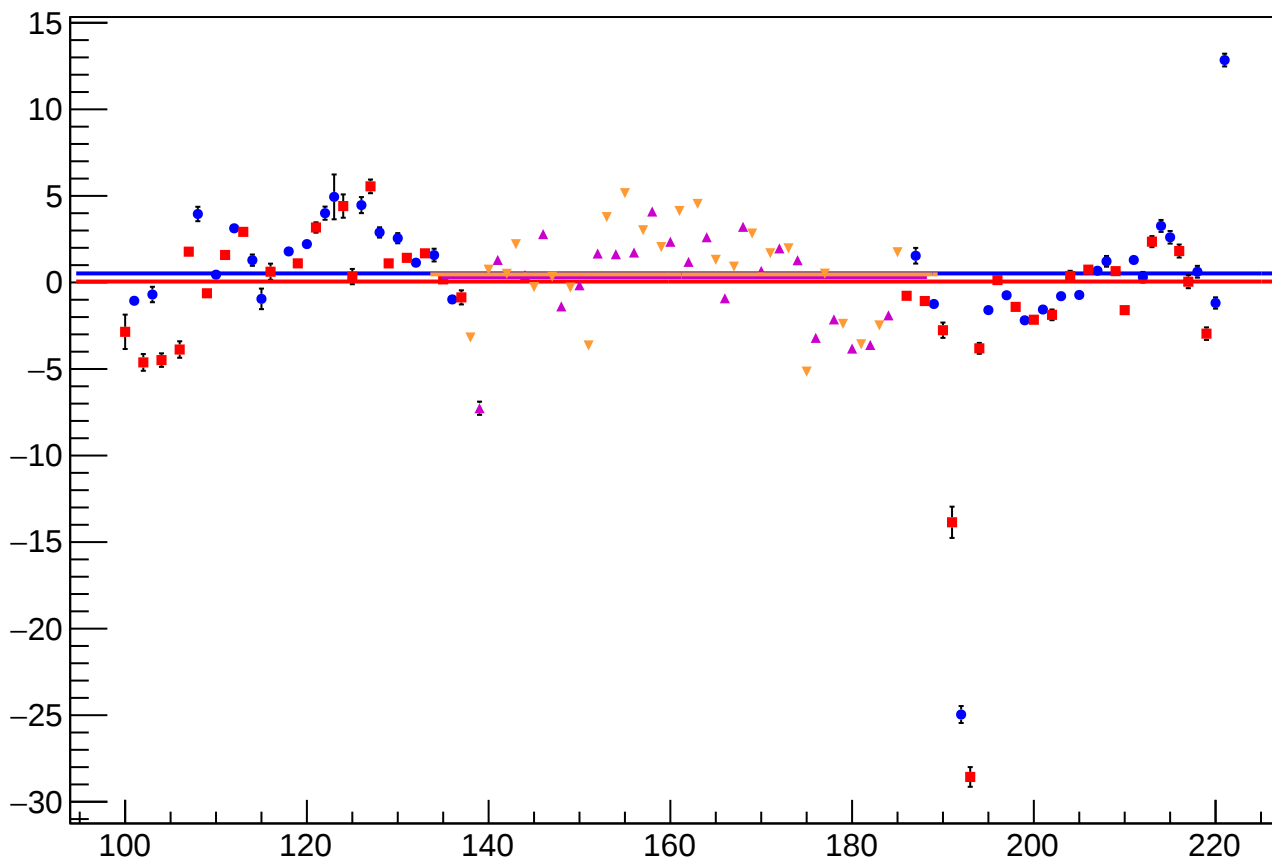
Right: 5.723+/-0.032 χ^2/NDF : 55007.4/35

In: -7.329+/-0.029 χ^2/NDF : 225854.4/40

Out: -8.107+/-0.029 χ^2/NDF : 272377.8/42

All: -7.712+/-0.021 χ^2/NDF : 498587.7/83

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.521+/-0.045 χ^2/NDF : 5238.5/34

Left Out: 0.469+/-0.032 χ^2/NDF : 7093.0/24

Right Out: 0.052+/-0.043 χ^2/NDF : 4597.2/36

Left In: 0.311+/-0.031 χ^2/NDF : 6183.1/22

Left: 0.386+/-0.022 χ^2/NDF : 13288.8/47

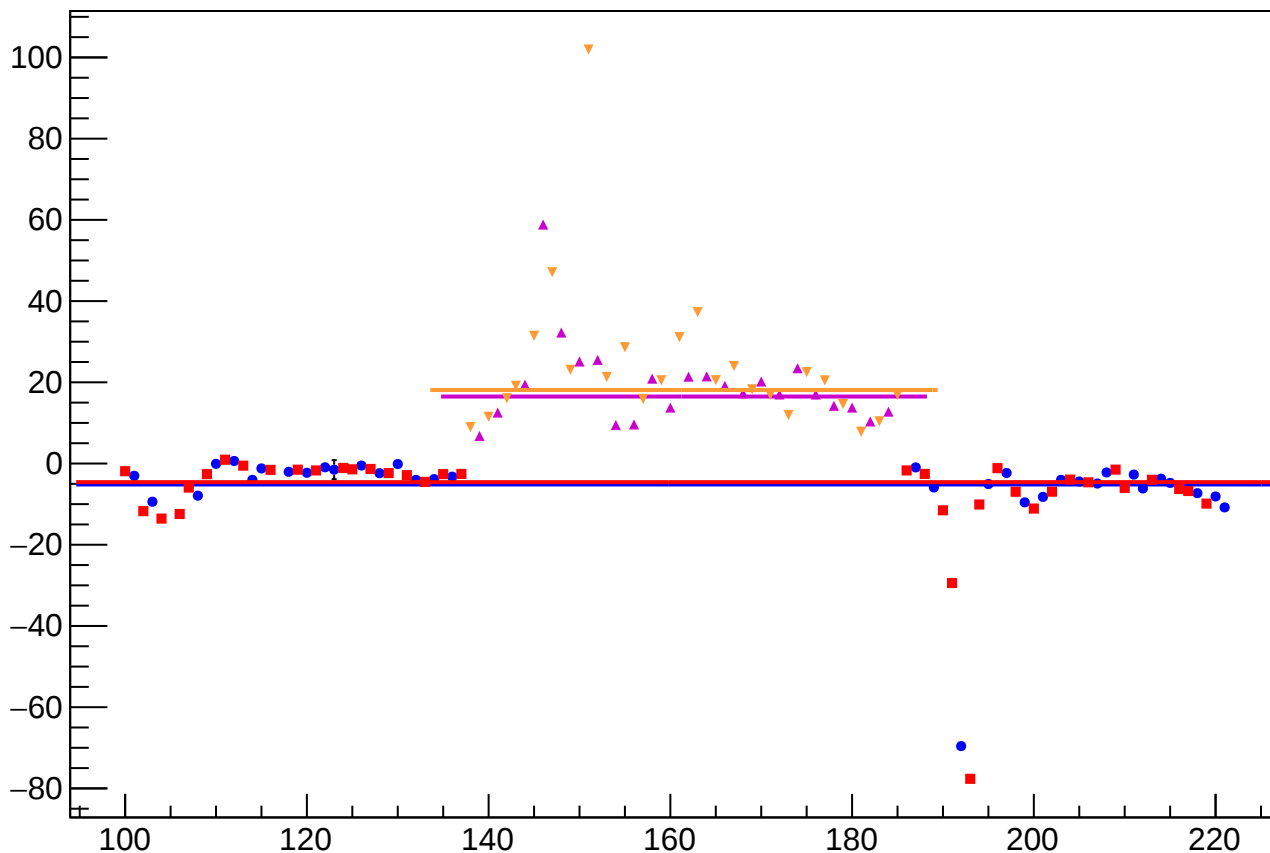
Right: 0.277+/-0.031 χ^2/NDF : 9892.2/71

In: 0.377+/-0.025 χ^2/NDF : 11436.5/57

Out: 0.320+/-0.026 χ^2/NDF : 11749.9/61

All: 0.349+/-0.018 χ^2/NDF : 23189.0/119

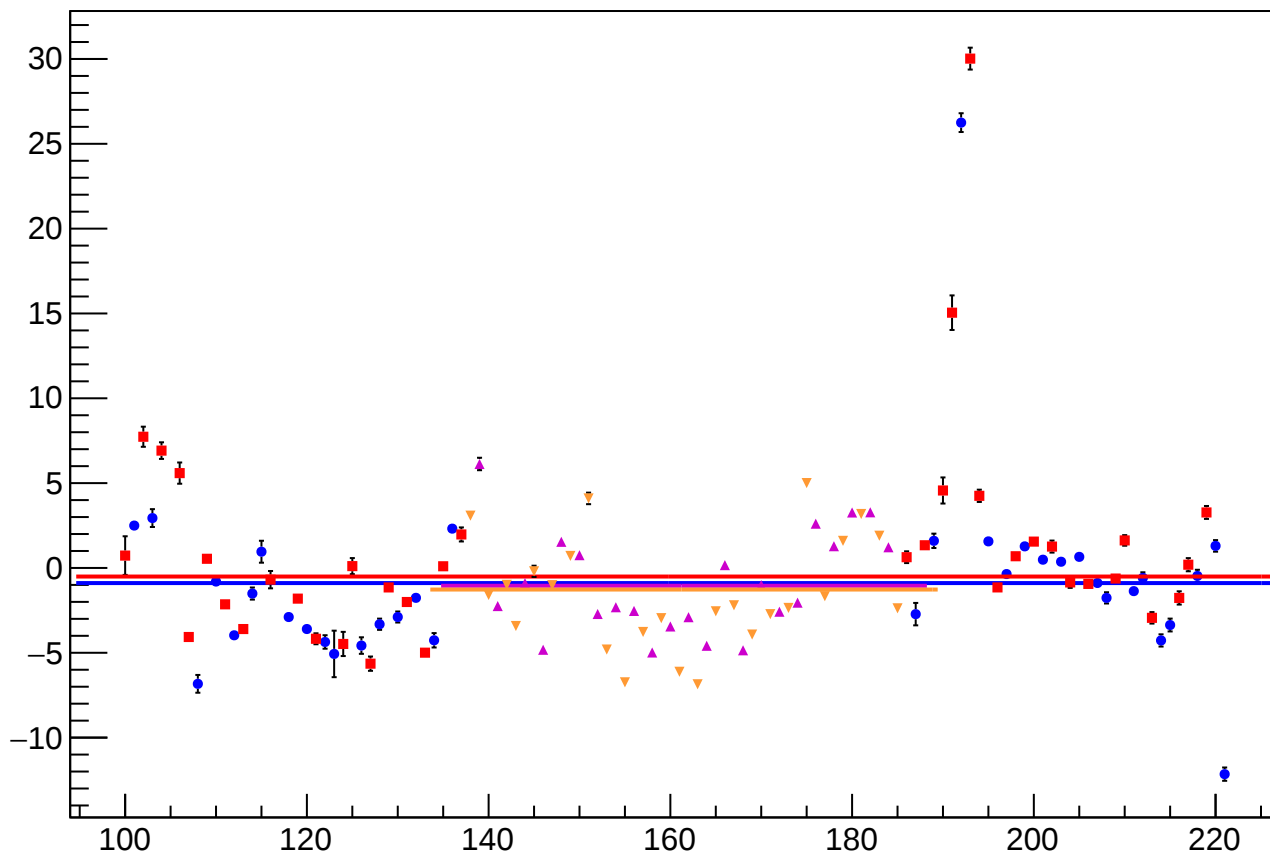
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.158+/-0.040 χ^2/NDF : 28569.5/34
 Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24
 Right Out: -4.581+/-0.039 χ^2/NDF : 29531.4/36
 Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47
 Right: -4.858+/-0.028 χ^2/NDF : 58206.5/71
 In: 6.455+/-0.028 χ^2/NDF : 222784.8/57
 Out: 6.714+/-0.028 χ^2/NDF : 277291.0/61
 All: 6.585+/-0.019 χ^2/NDF : 500119.8/119

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

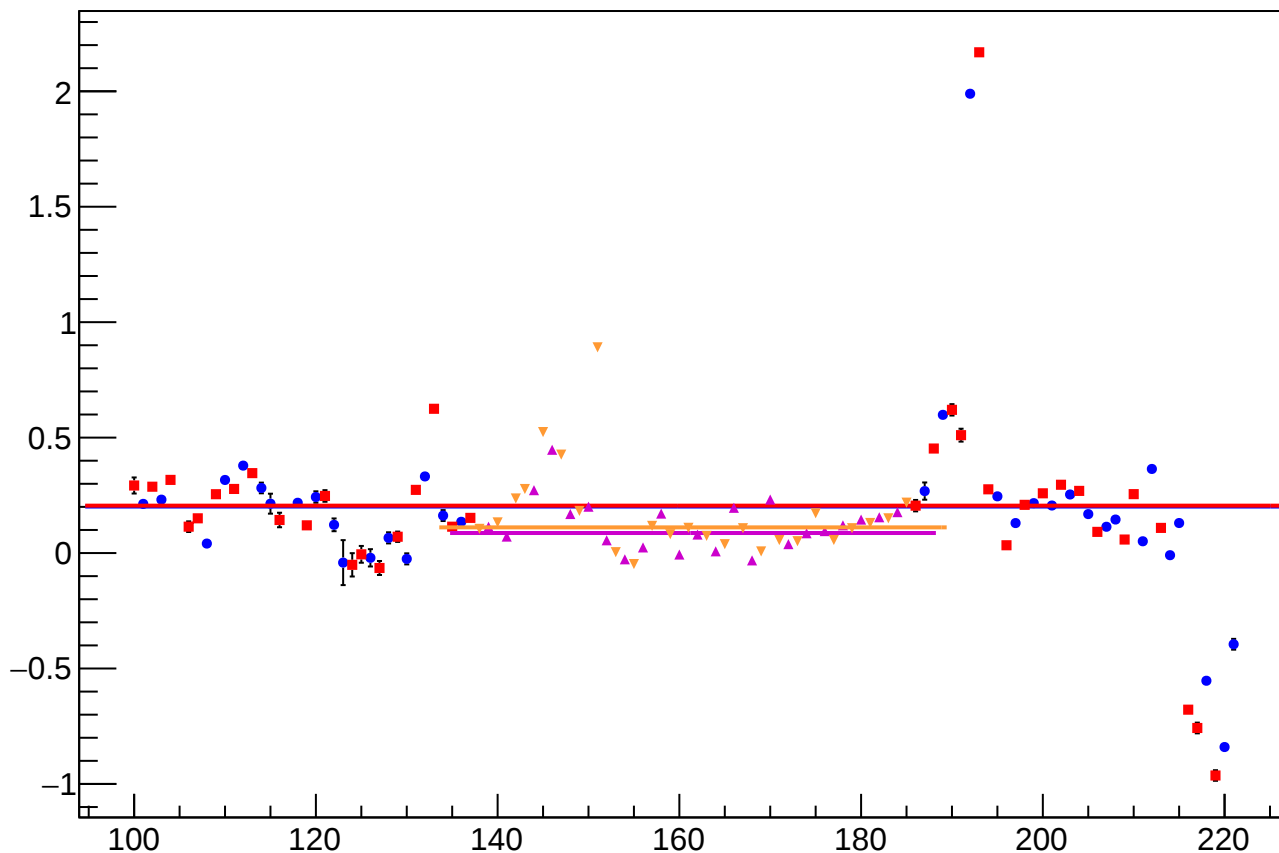


Right In: -0.891 ± 0.051 χ^2/NDF : 5061.6/34
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.506 ± 0.050 χ^2/NDF : 4833.3/36
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.693 ± 0.036 χ^2/NDF : 9923.9/71
 In: -1.002 ± 0.028 χ^2/NDF : 11741.6/57
 Out: -1.012 ± 0.029 χ^2/NDF : 12941.2/61

All: -1.007 ± 0.020 χ^2/NDF : 24682.9/119

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.201 ± 0.002 $\chi^2/\text{NDF}: 16626.8/34$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.205 ± 0.002 $\chi^2/\text{NDF}: 18455.5/36$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

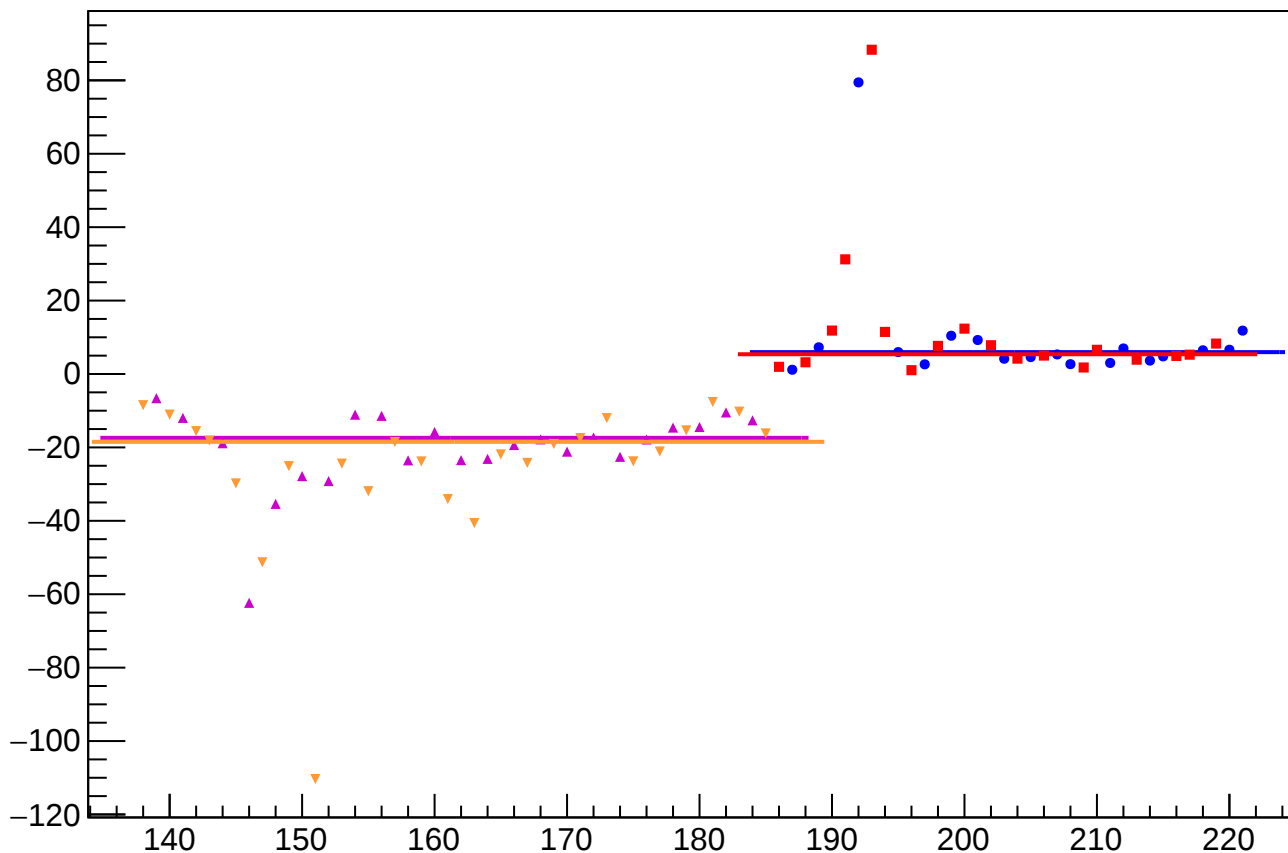
Right: 0.203 ± 0.002 $\chi^2/\text{NDF}: 35083.7/71$

In: 0.121 ± 0.001 $\chi^2/\text{NDF}: 21957.8/57$

Out: 0.142 ± 0.001 $\chi^2/\text{NDF}: 24071.8/61$

All: 0.131 ± 0.001 $\chi^2/\text{NDF}: 46170.5/119$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.960 ± 0.045 χ^2/NDF : 26980.8/17

Left Out: -18.479 ± 0.040 χ^2/NDF : 87883.4/24

Right Out: 5.379 ± 0.045 χ^2/NDF : 26914.2/17

Left In: -17.393 ± 0.039 χ^2/NDF : 43178.9/22

Left: -17.926 ± 0.028 χ^2/NDF : 131443.9/47

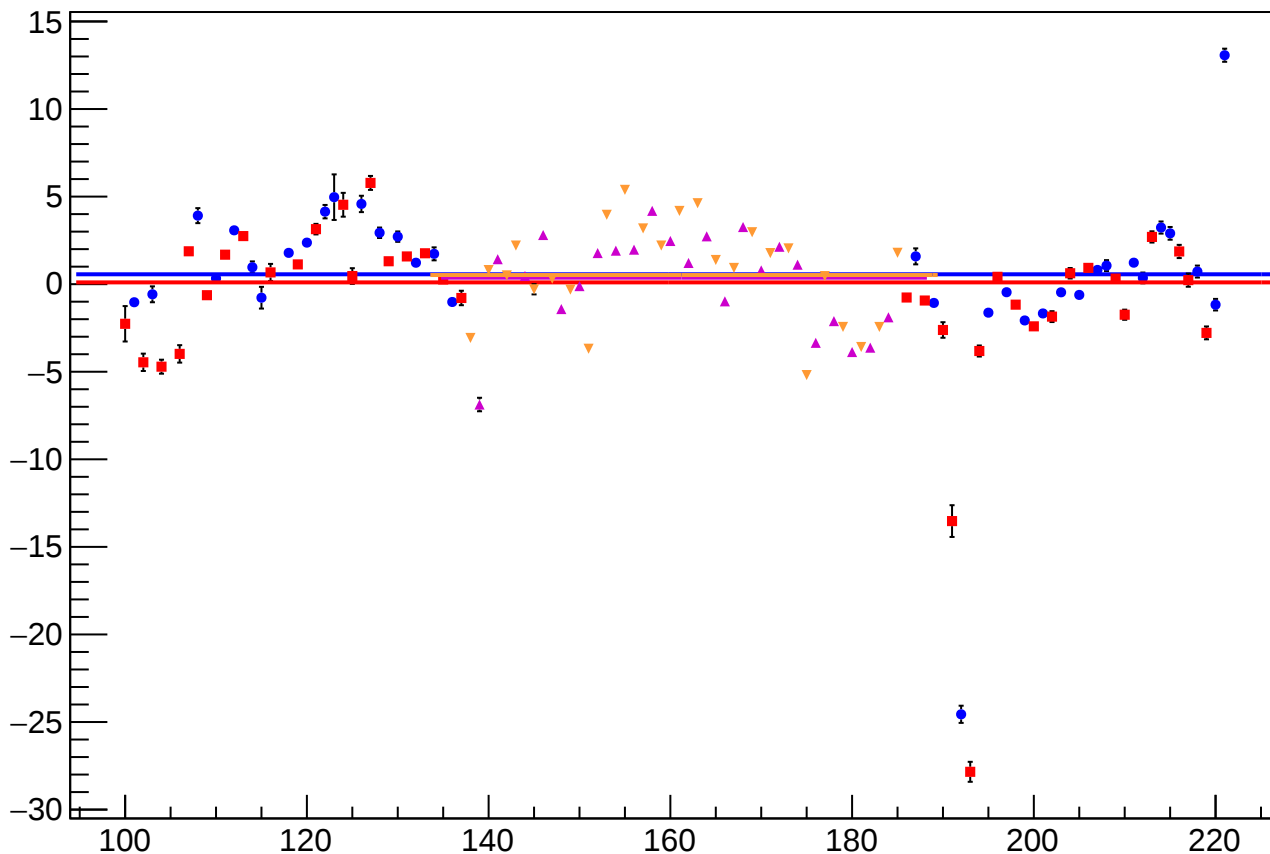
Right: 5.672 ± 0.032 χ^2/NDF : 53977.7/35

In: -7.362 ± 0.029 χ^2/NDF : 224489.6/40

Out: -8.125 ± 0.030 χ^2/NDF : 271526.8/42

All: -7.738 ± 0.021 χ^2/NDF : 496347.7/83

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.564 $\pm$ 0.046 χ^2 /NDF: 5108.5/34

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.102 $\pm$ 0.044 χ^2 /NDF: 4450.0/36

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

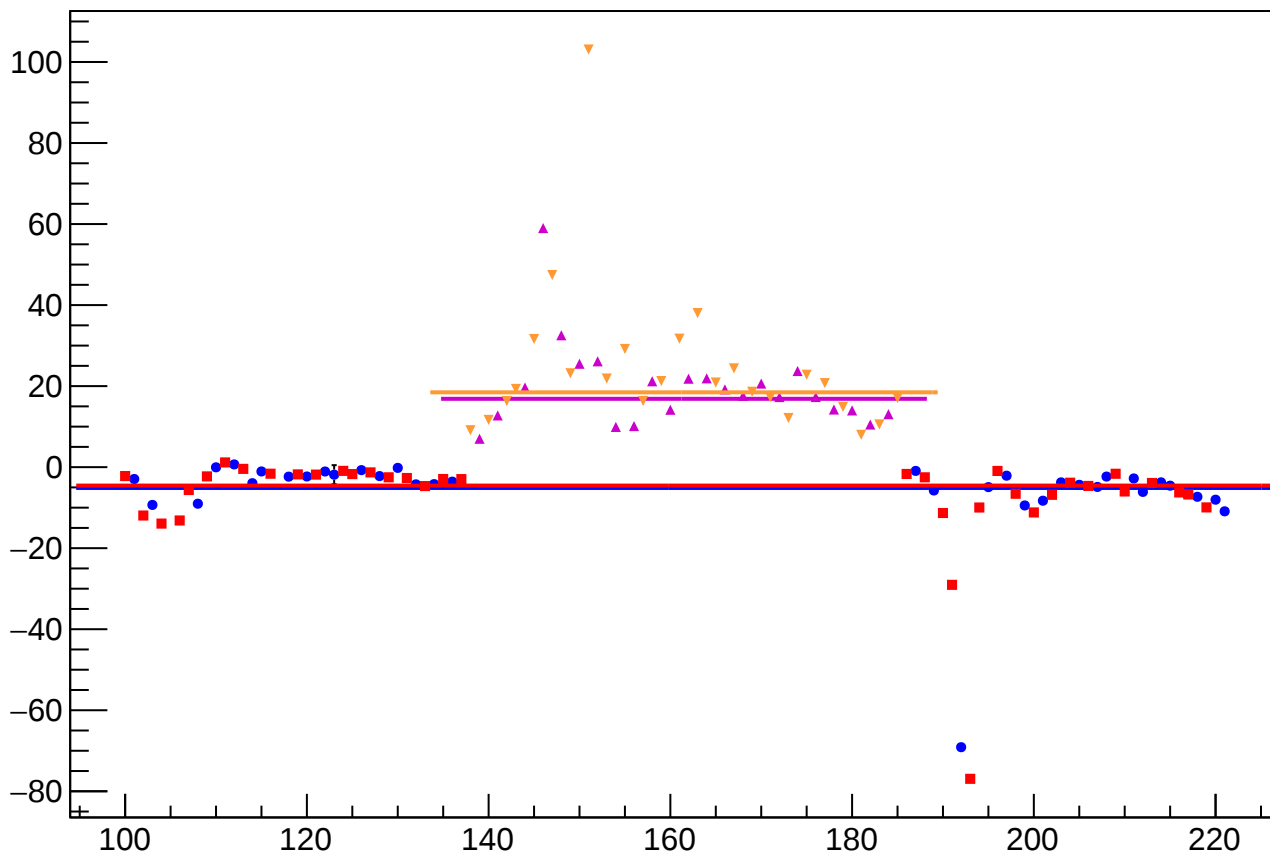
Right: 0.325 $\pm$ 0.032 χ^2 /NDF: 9612.1/71

In: 0.434 $\pm$ 0.026 χ^2 /NDF: 11338.1/57

Out: 0.370 $\pm$ 0.026 χ^2 /NDF: 11563.6/61

All: 0.402 $\pm$ 0.018 χ^2 /NDF: 22904.7/119

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.132 ± 0.041 $\chi^2/\text{NDF}: 28056.0/34$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.547 ± 0.039 $\chi^2/\text{NDF}: 28983.1/36$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

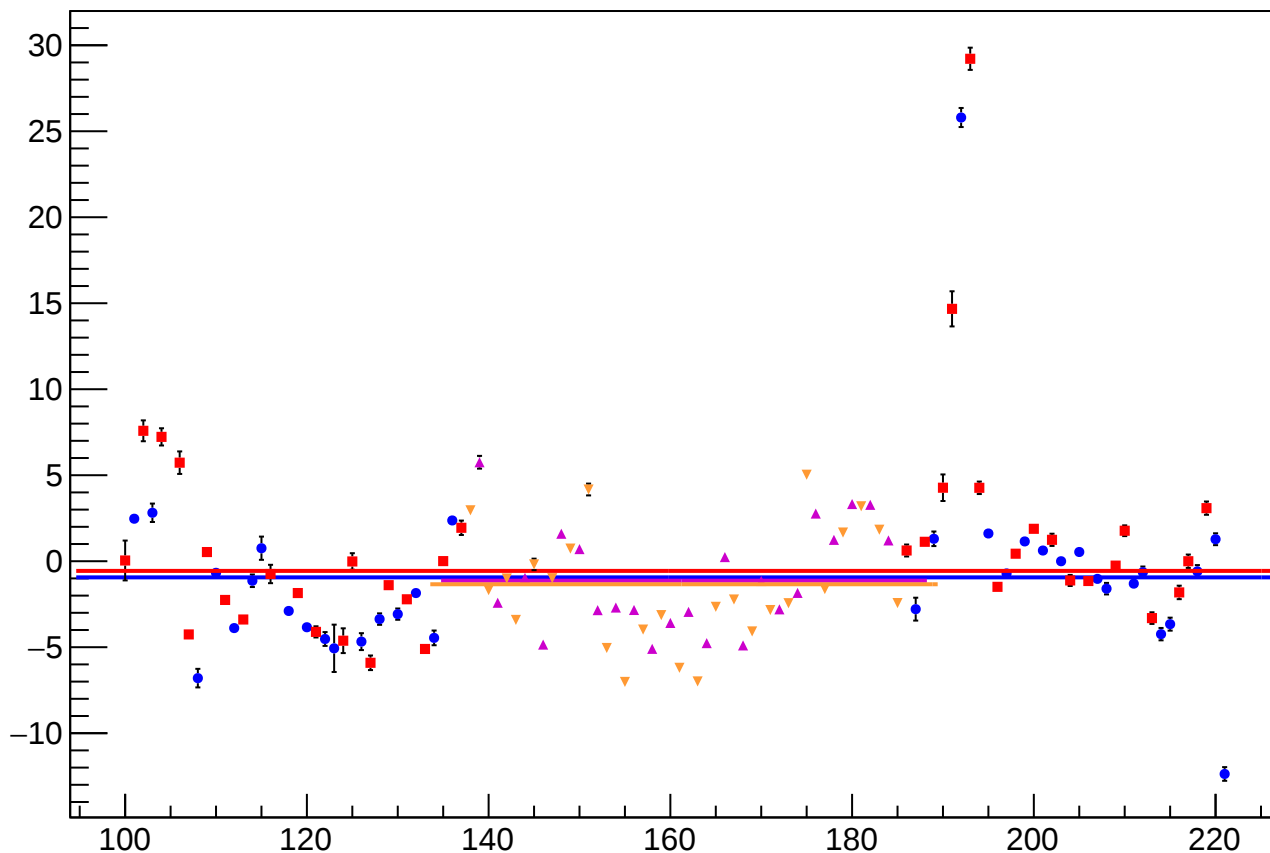
Right: -4.827 ± 0.028 $\chi^2/\text{NDF}: 57146.2/71$

In: 6.486 ± 0.028 $\chi^2/\text{NDF}: 221386.3/57$

Out: 6.732 ± 0.028 $\chi^2/\text{NDF}: 275984.5/61$

All: 6.609 ± 0.020 $\chi^2/\text{NDF}: 497409.6/119$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

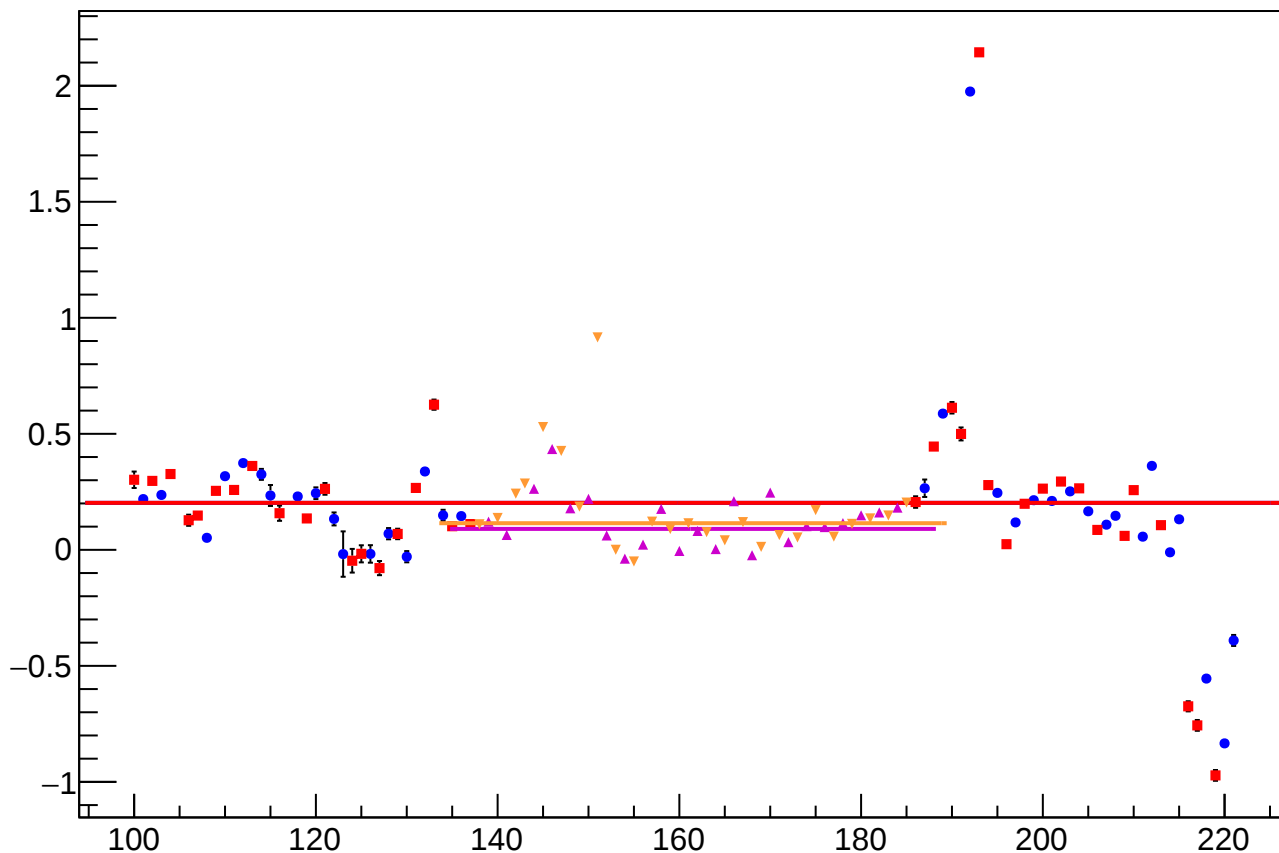


Right In: -0.940 ± 0.052 $\chi^2/\text{NDF}: 4947.3/34$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.563 ± 0.050 $\chi^2/\text{NDF}: 4694.8/36$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.746 ± 0.036 $\chi^2/\text{NDF}: 9669.2/71$
 In: -1.072 ± 0.029 $\chi^2/\text{NDF}: 11665.4/57$
 Out: -1.072 ± 0.030 $\chi^2/\text{NDF}: 12757.6/61$

All: -1.072 ± 0.021 $\chi^2/\text{NDF}: 24422.9/119$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.202 ± 0.002 $\chi^2/\text{NDF}: 16253.8/34$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.203 ± 0.002 $\chi^2/\text{NDF}: 18199.5/36$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

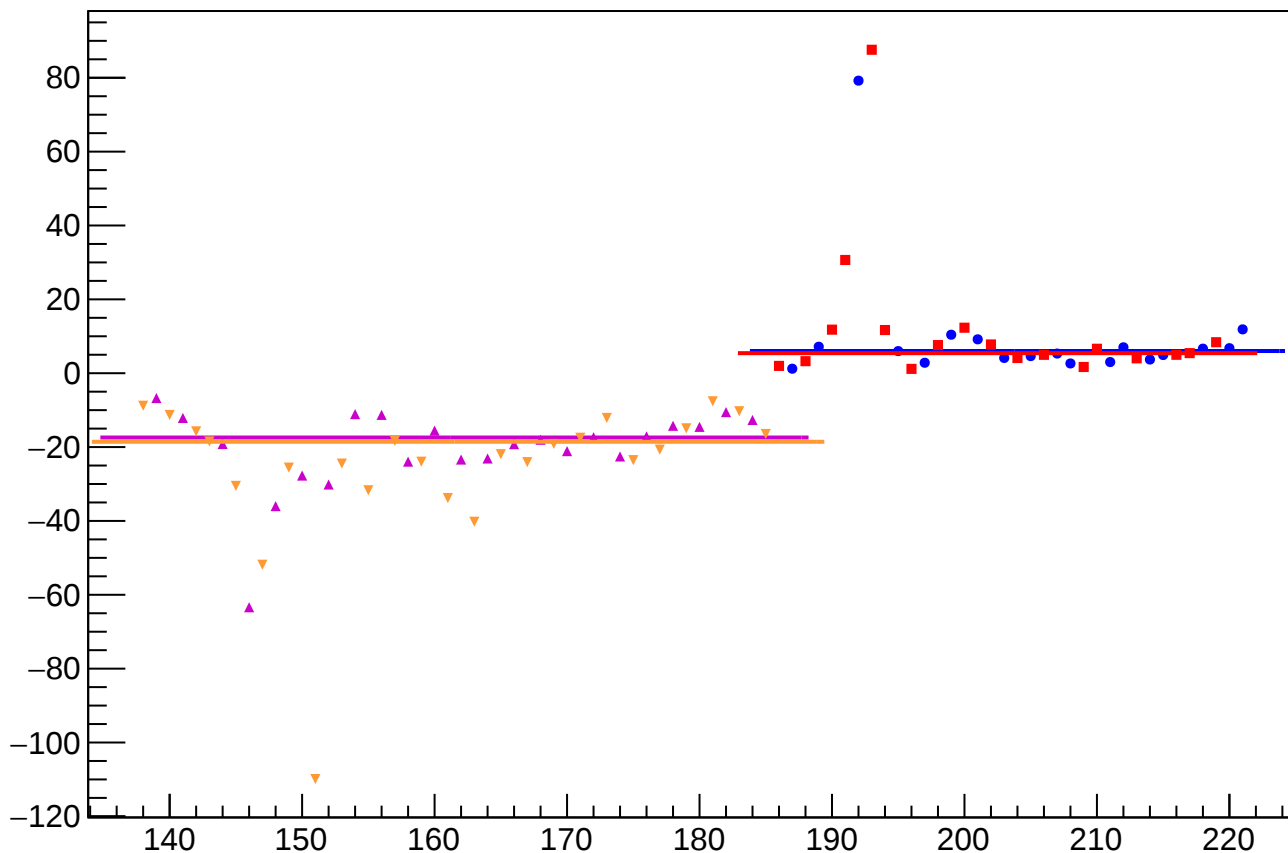
Right: 0.202 ± 0.002 $\chi^2/\text{NDF}: 34453.4/71$

In: 0.124 ± 0.001 $\chi^2/\text{NDF}: 21544.2/57$

Out: 0.144 ± 0.001 $\chi^2/\text{NDF}: 23596.4/61$

All: 0.134 ± 0.001 $\chi^2/\text{NDF}: 45258.0/119$

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



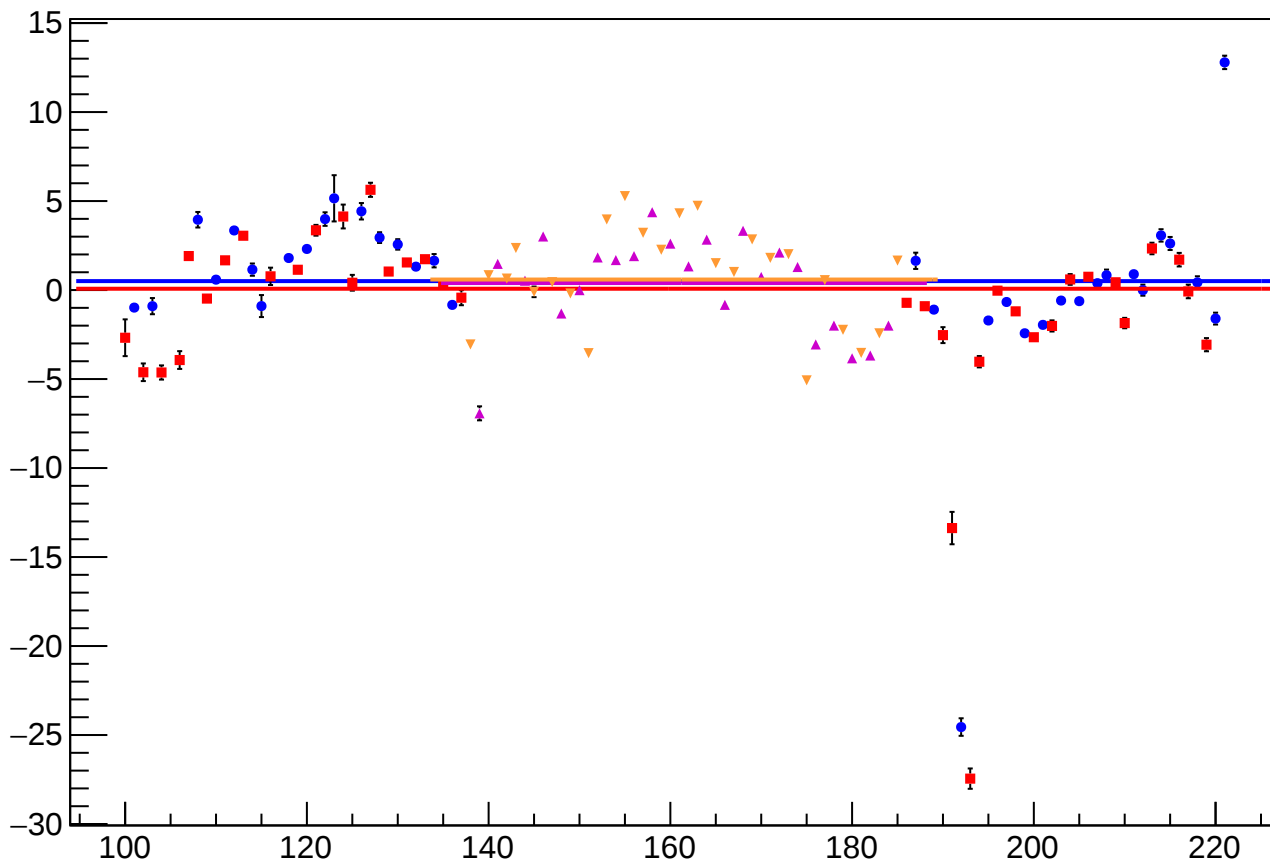
Right In: 6.013 ± 0.045 $\chi^2/\text{NDF}: 26487.1/17$
 Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$
 Right Out: 5.429 ± 0.046 $\chi^2/\text{NDF}: 26287.2/17$
 Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$
 Right: 5.724 ± 0.032 $\chi^2/\text{NDF}: 52856.0/35$

In: -7.380 ± 0.030 $\chi^2/\text{NDF}: 222167.0/40$
 Out: -8.181 ± 0.030 $\chi^2/\text{NDF}: 267675.9/42$

All: -7.774 ± 0.021 $\chi^2/\text{NDF}: 490199.6/83$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.502 ± 0.046 $\chi^2/\text{NDF}: 5080.2/34$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.074 ± 0.044 $\chi^2/\text{NDF}: 4397.1/36$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

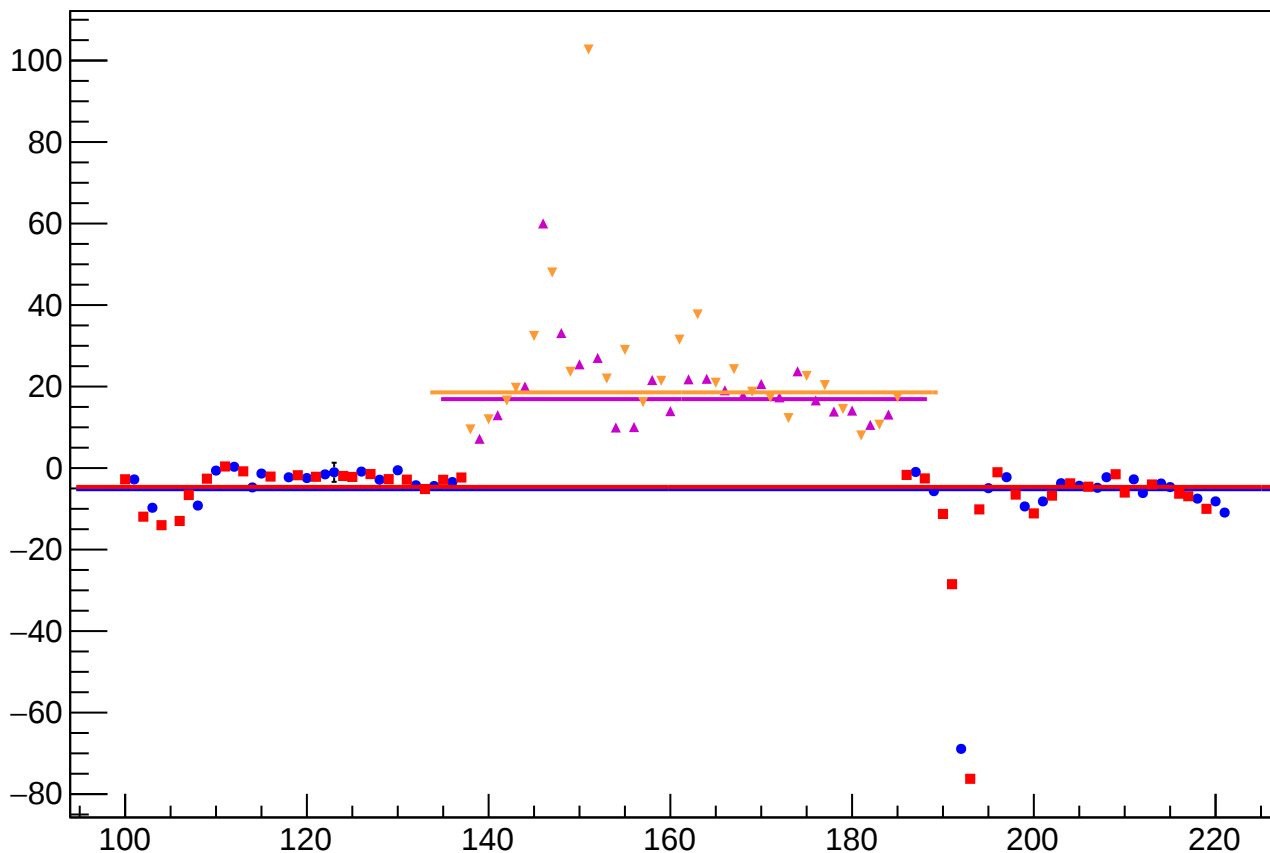
Right: 0.281 ± 0.032 $\chi^2/\text{NDF}: 9522.3/71$

In: 0.429 ± 0.026 $\chi^2/\text{NDF}: 11143.7/57$

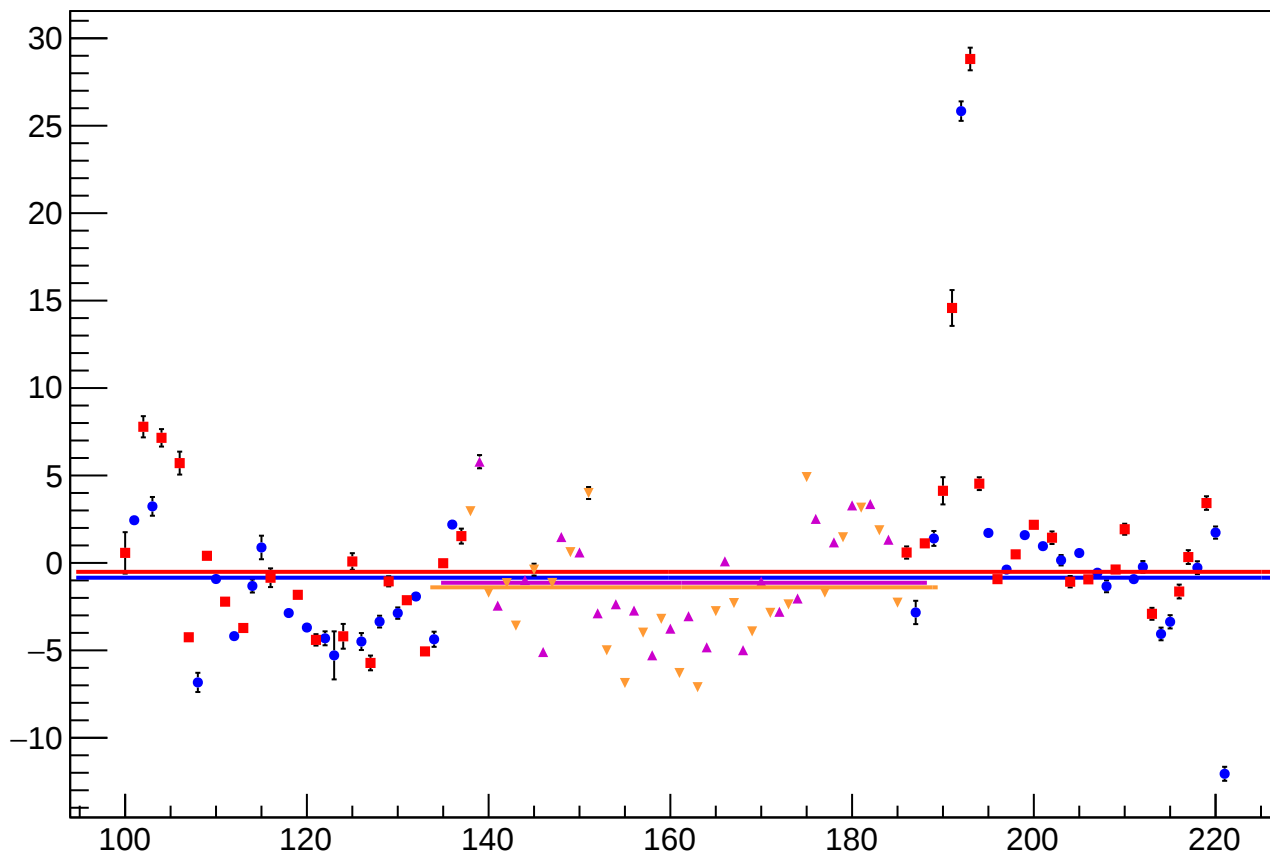
Out: 0.405 ± 0.027 $\chi^2/\text{NDF}: 11280.4/61$

All: 0.417 ± 0.019 $\chi^2/\text{NDF}: 22424.6/119$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.845 ± 0.052 $\chi^2/\text{NDF}: 4893.0/34$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.510 ± 0.051 $\chi^2/\text{NDF}: 4634.0/36$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

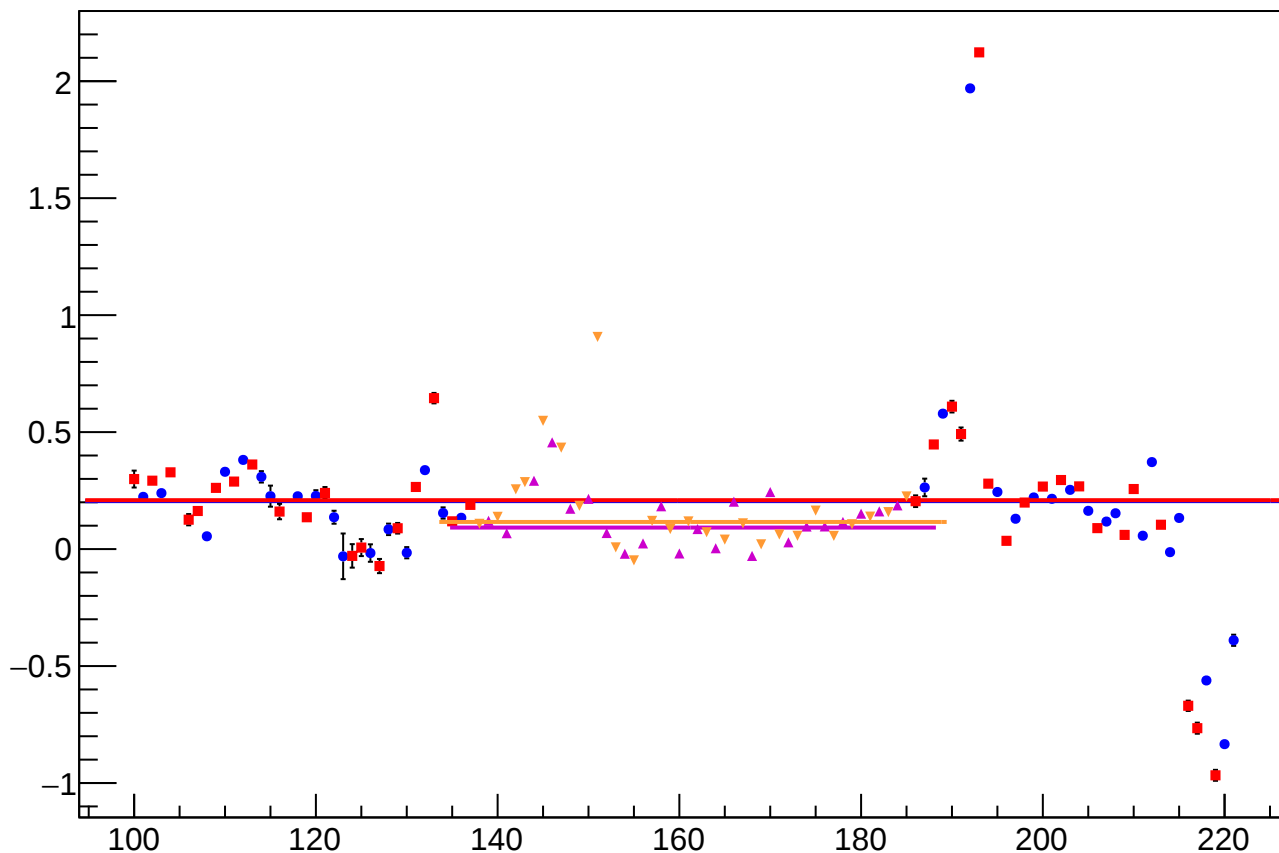
Right: -0.673 ± 0.037 $\chi^2/\text{NDF}: 9548.0/71$

In: -1.045 ± 0.029 $\chi^2/\text{NDF}: 11511.7/57$

Out: -1.093 ± 0.030 $\chi^2/\text{NDF}: 12483.1/61$

All: -1.068 ± 0.021 $\chi^2/\text{NDF}: 23996.1/119$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.002 χ^2 /NDF: 15947.4/34

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.209 $\pm$ 0.002 χ^2 /NDF: 17640.3/36

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

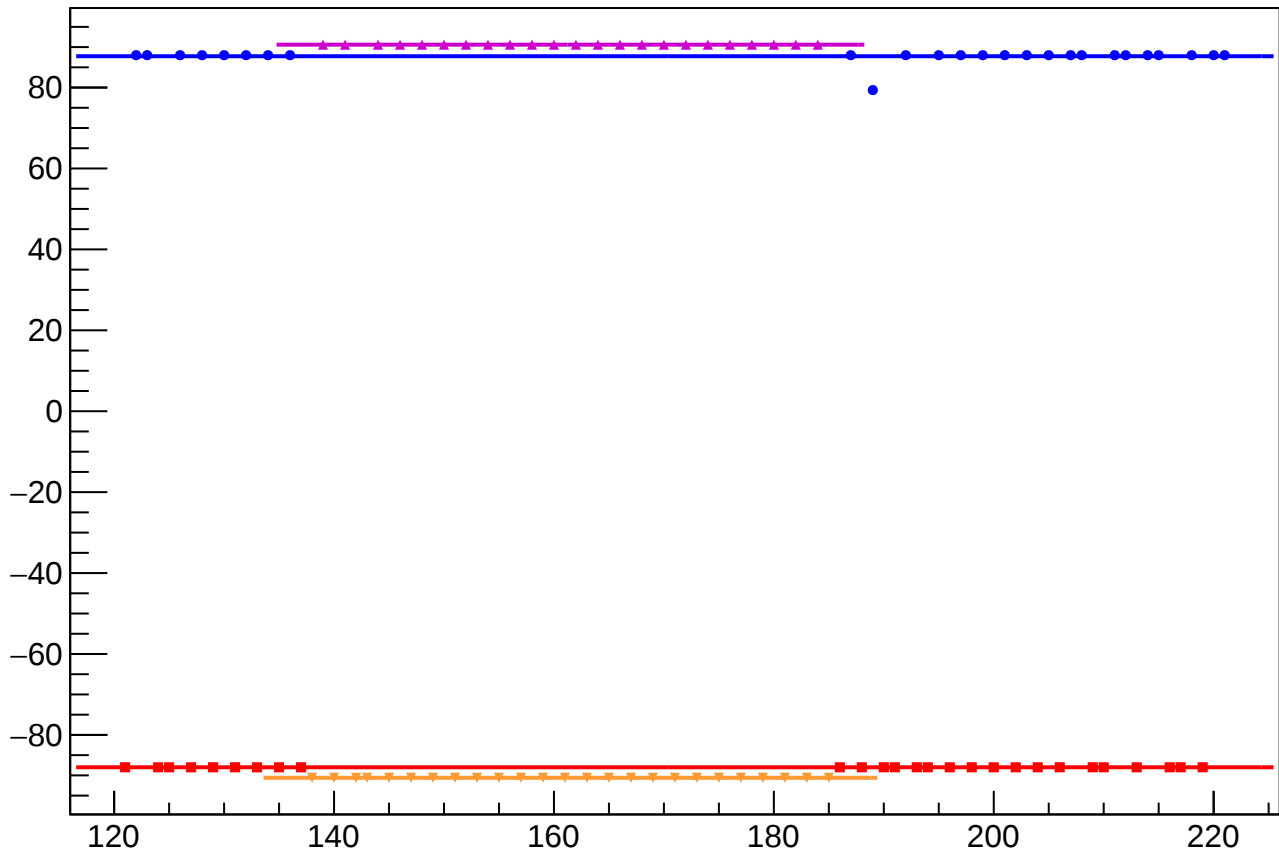
Right: 0.207 $\pm$ 0.002 χ^2 /NDF: 33589.2/71

In: 0.126 $\pm$ 0.001 χ^2 /NDF:21178.6/57

Out: 0.147 $\pm$ 0.001 χ^2 /NDF:23159.9/61

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 44463.8/119

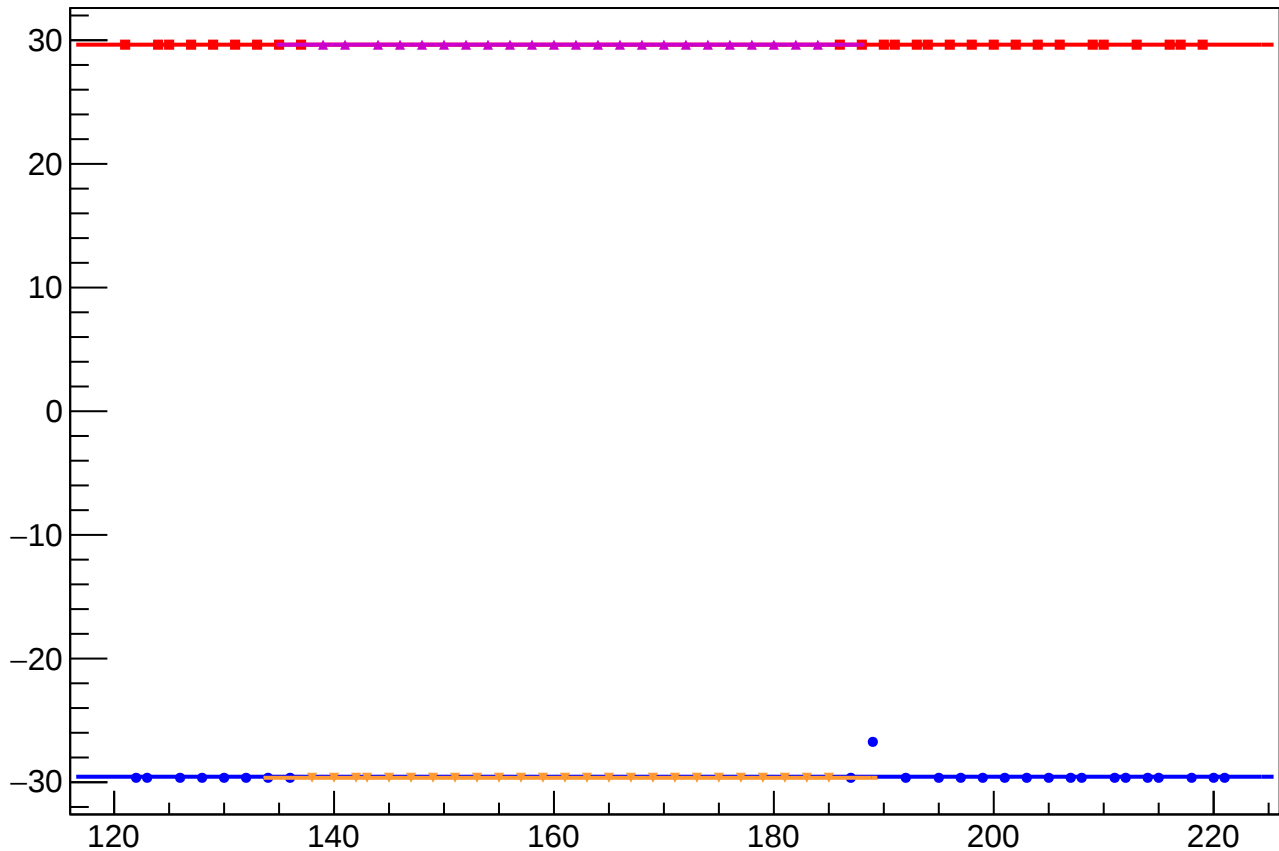
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.743 ± 0.000 $\chi^2/\text{NDF}: 368258891759479443677208448598016.0/25$
 Left Out: -90.599 ± 0.000 $\chi^2/\text{NDF}: 6053403.0/24$
 Right Out: -88.001 ± 0.000 $\chi^2/\text{NDF}: 1624472.9/26$
 Left In: 90.599 ± 0.000 $\chi^2/\text{NDF}: 5932436.0/22$

Left: -2.410 ± 0.000 $\chi^2/\text{NDF}: 30521213250005045$
 Right: 2.635 ± 0.000 $\chi^2/\text{NDF}: 25505469715556977$
 In: 89.214 ± 0.000 $\chi^2/\text{NDF}: 108491560390252051$
 Out: -89.414 ± 0.000 $\chi^2/\text{NDF}: 5881263651454965$
 All: -0.037 ± 0.000 $\chi^2/\text{NDF}: 5607125208550$

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.554+/-0.000

χ^2/NDF : 417789920075088245460483488874496.0/25

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1635920.8/26

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

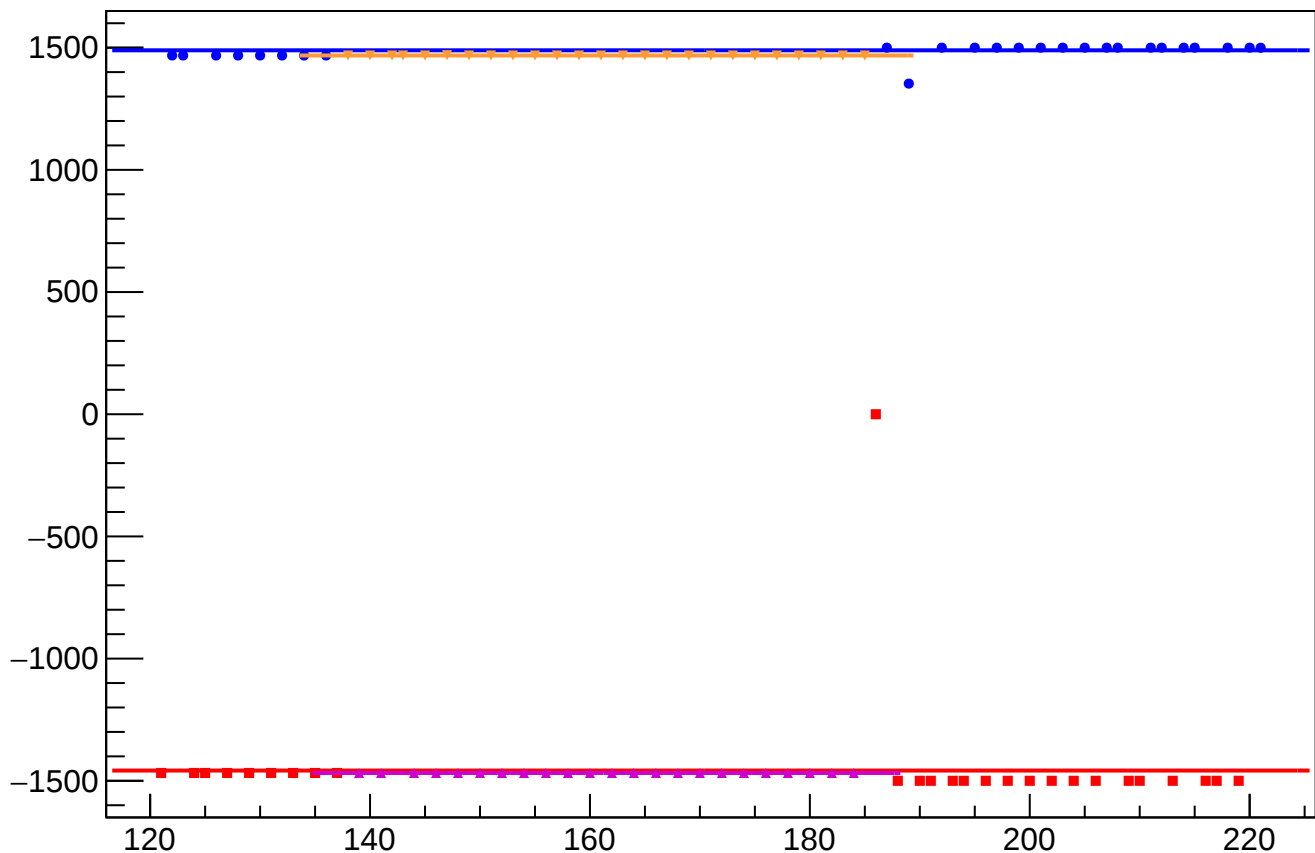
Right: -0.888+/-0.000 χ^2/NDF : 2893596995794239

In: 0.936+/-0.000 χ^2/NDF : 3077622838335633204

Out: -2.609+/-0.000 χ^2/NDF : 30607711855983623

All: -0.835+/-0.000 χ^2/NDF : 6160463761131

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1489.214+/-0.000

χ^2/NDF : 1252174697287445862370957372155756544.0/25

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1458.058+/-0.000

χ^2/NDF : 83007557534286417755834562519731535872.0/26

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322

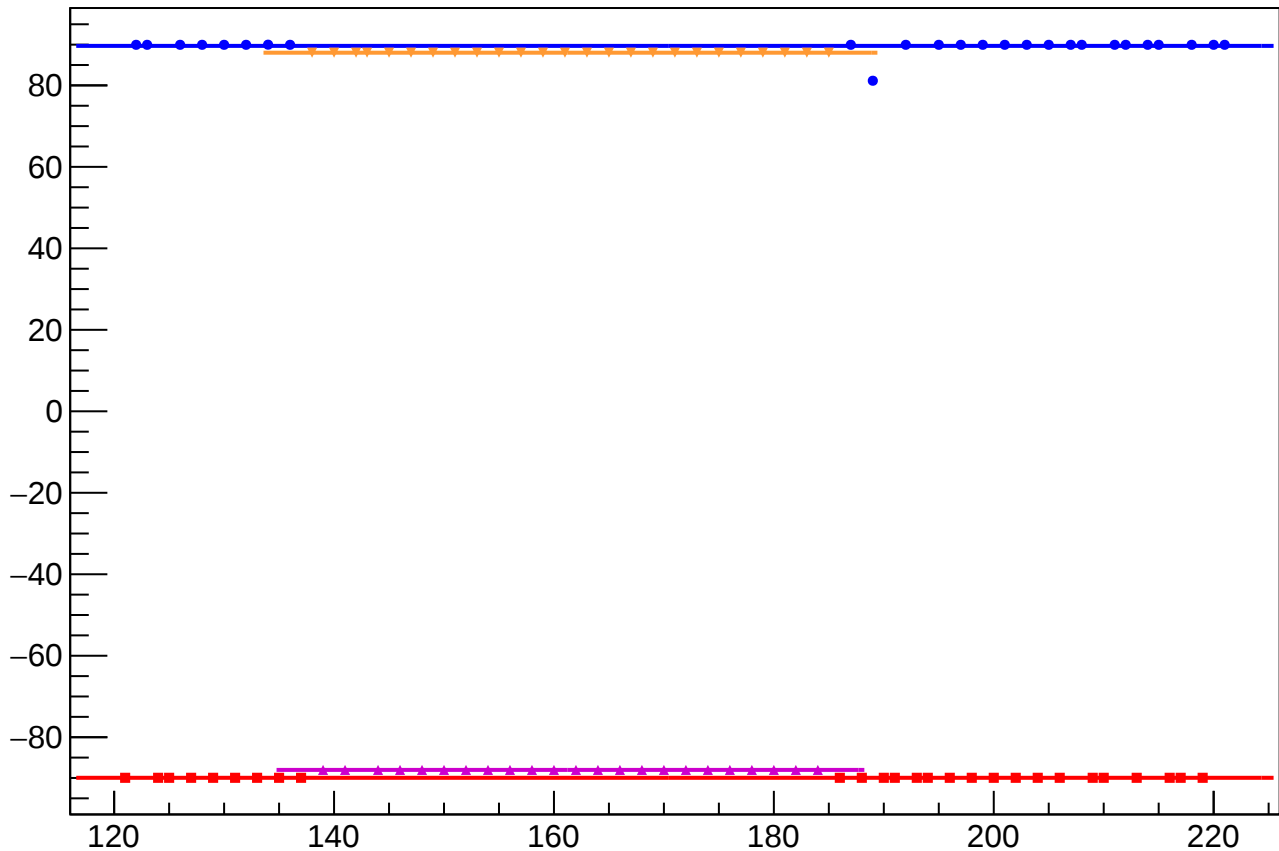
Right: 61.936+/-0.000 χ^2/NDF : 7256473583156204

In: -33.967+/-0.000 χ^2/NDF : 76811886163252483

Out: 133.757+/-0.000 χ^2/NDF : 7540174190585511

All: 49.835+/-0.000 χ^2/NDF : 1527078229948

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.696+/-0.000

χ^2/NDF : 3848725509297740158888332444565504.0/25

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: 2.694+/-0.000 χ^2/NDF : 26653553636821888

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 4758913.9/26

In: -1.841+/-0.000 χ^2/NDF : 277402392451473032

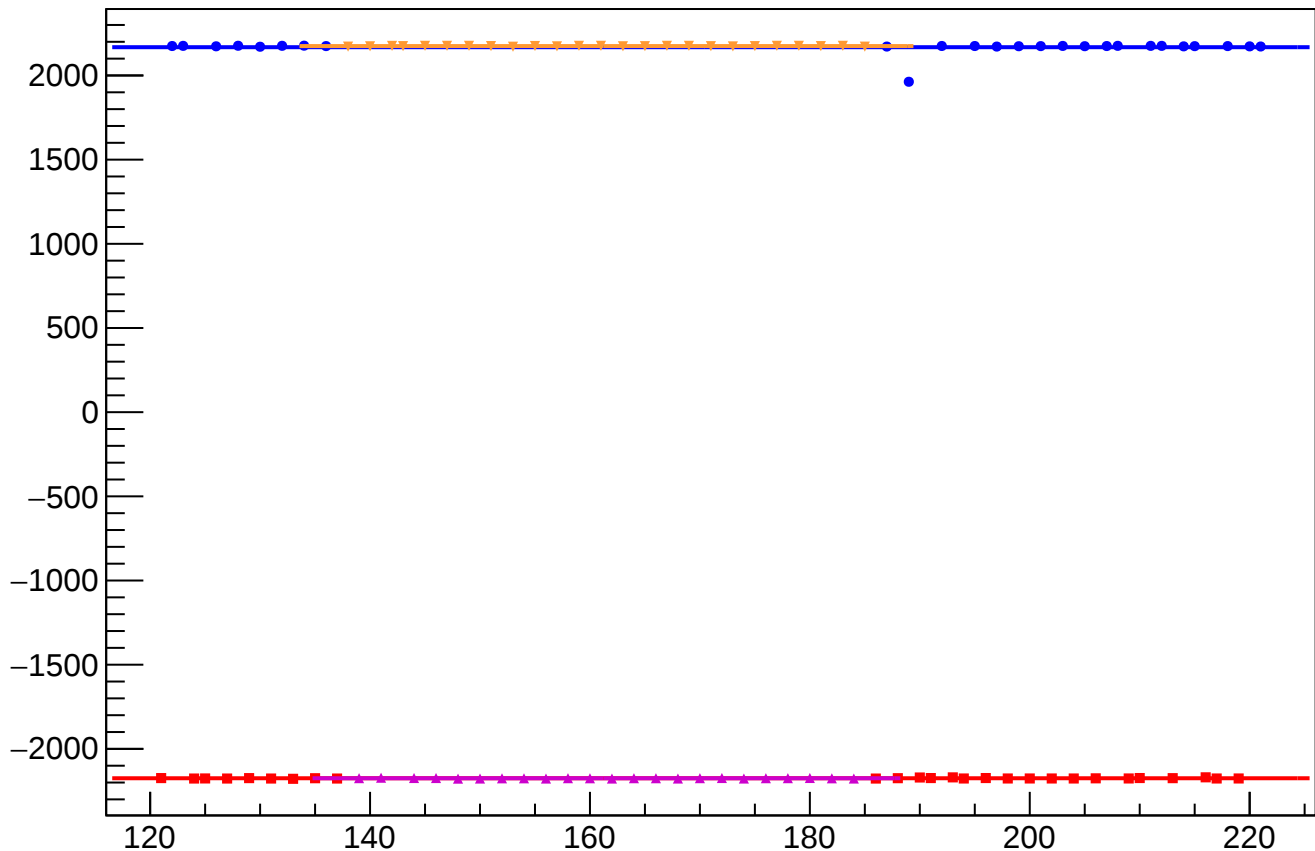
Out: 6.863+/-0.000 χ^2/NDF : 275890200353072769

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

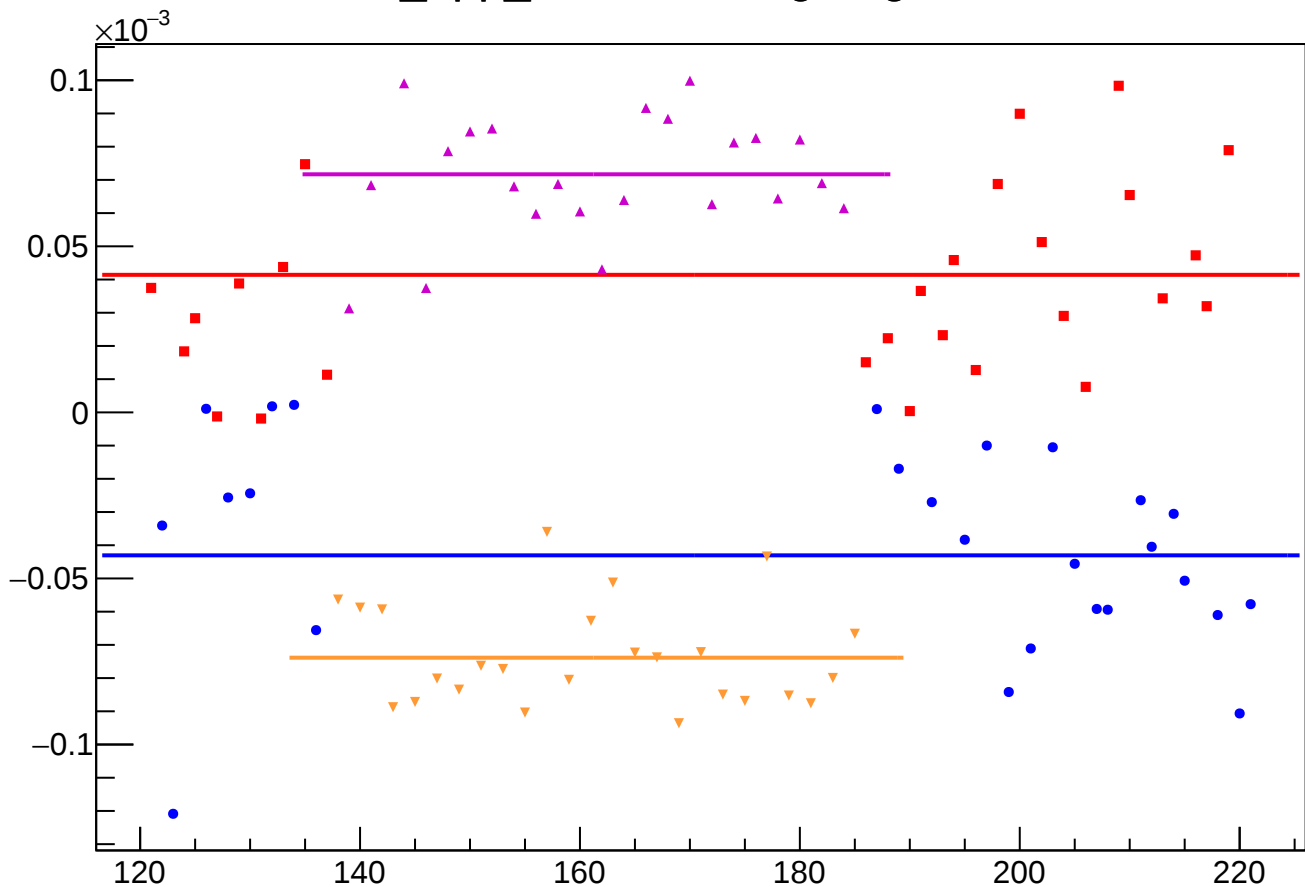
All: 2.508+/-0.000 χ^2/NDF : 55462347765645

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2167.934+/-0.000 χ^2/NDF : 2219839644995694630990888960243269632.0/25
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.538+/-0.000 χ^2/NDF : 7287483634271028865642845219848192.0/26
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 61.240+/-0.000 χ^2/NDF : 3315567755901

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 1101987240659252536147968.0/25

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1247090835950715807989760.0/26

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: -0.000+/-0.000

χ^2/NDF : 8239033624089474

In: 0.000+/-0.000

χ^2/NDF : 1322281990943697498

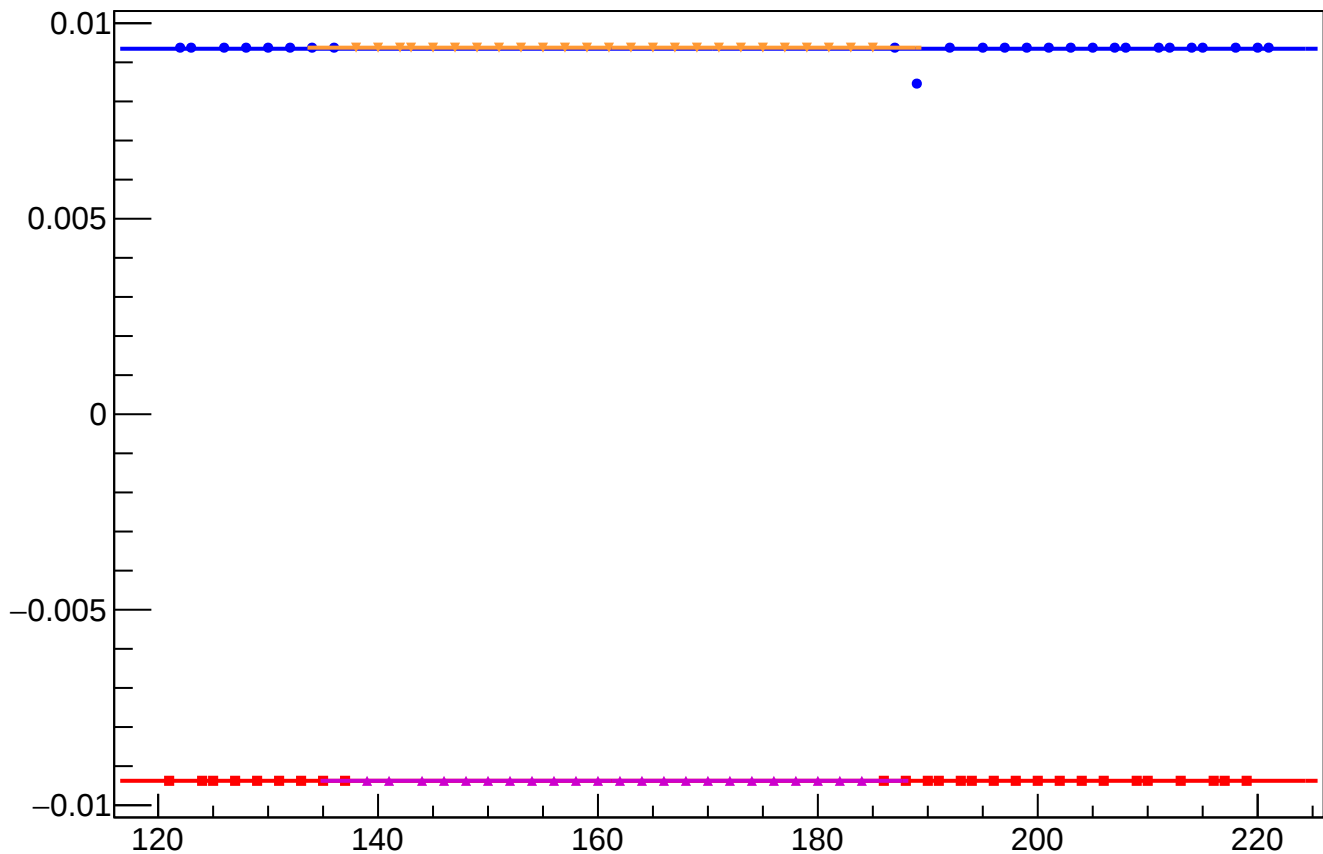
Out: -0.000+/-0.000

χ^2/NDF : 13270700524442328

All: -0.000+/-0.000

χ^2/NDF : 2894309230939

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 28947002223147008

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

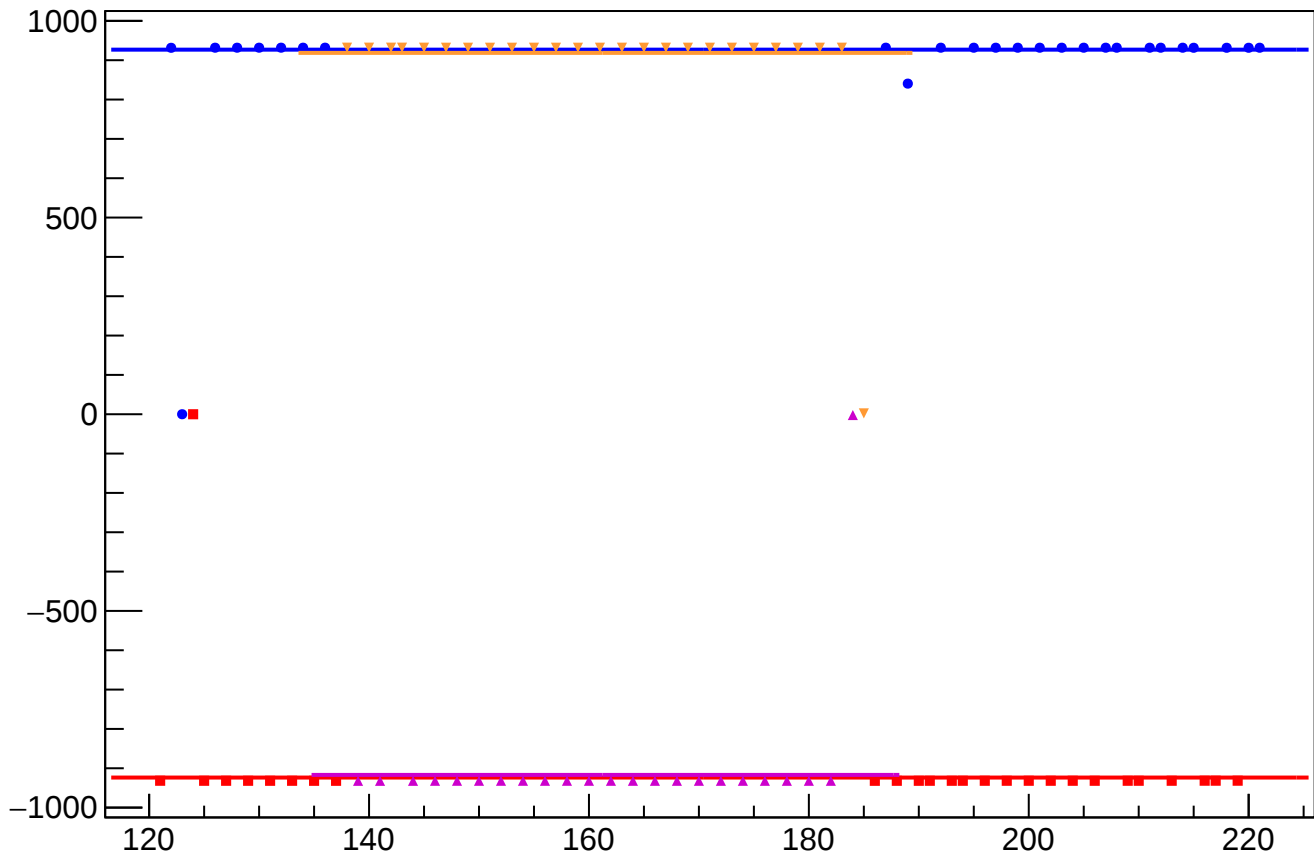
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

χ^2/NDF : 61628125287755

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 926.842+/-0.000

χ^2/NDF : 3856062543284689359048090825621766144.0/25

Left Out: 918.645+/-0.000

χ^2/NDF : 230034987040560849397524325213363224096.0/24

Right Out: -923.623+/-0.000

χ^2/NDF : 12047653448681008205248449089676247040.0/26

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018

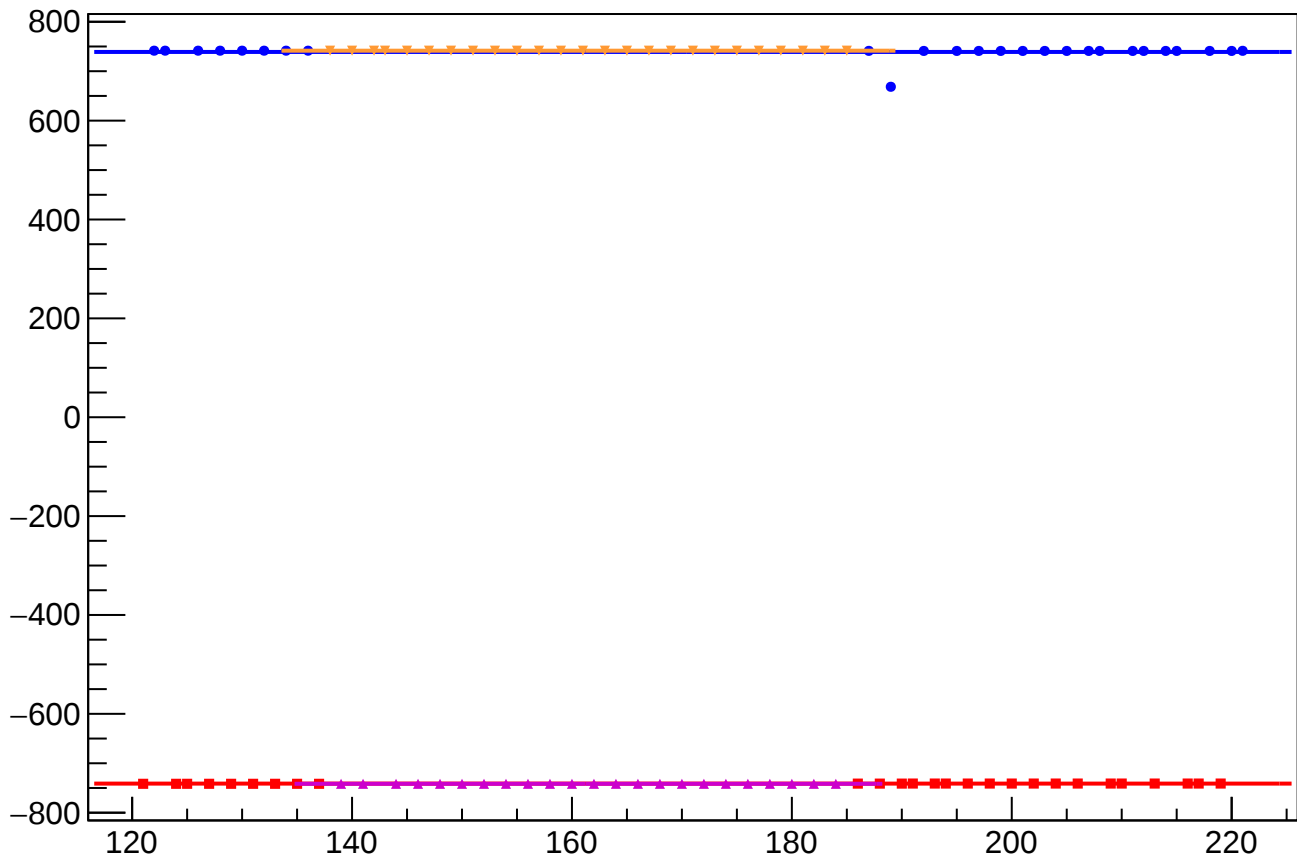
Right: 30.715+/-0.000 χ^2/NDF : 2843220590698296

In: -22.816+/-0.000 χ^2/NDF : 30138325421493863

Out: 78.579+/-0.000 χ^2/NDF : 29910168846332206

All: 27.845+/-0.000 χ^2/NDF : 6022910585804

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.971+/-0.000 χ^2/NDF : 261148903853801068794384966947438592.0/25

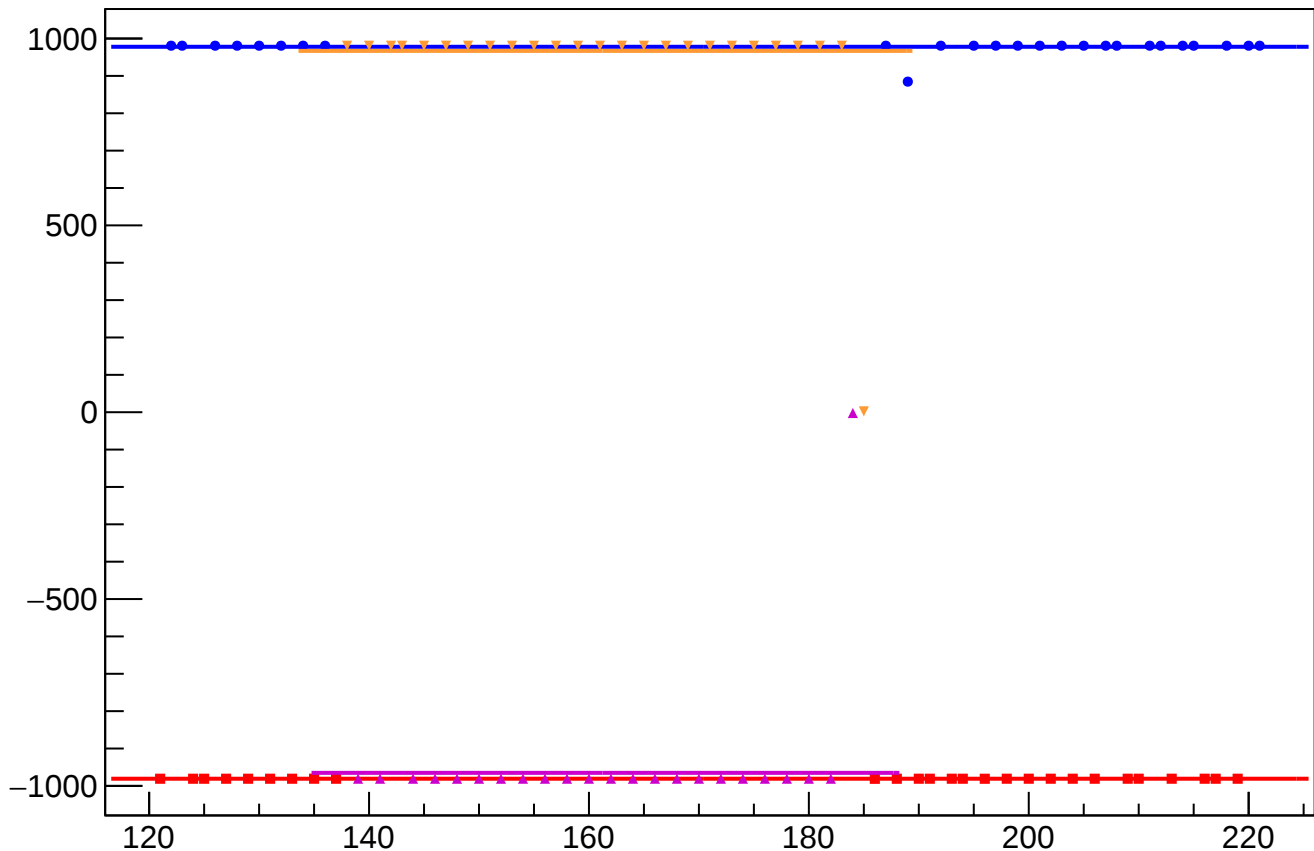
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.140+/-0.000 χ^2/NDF : 62390899526182309743103892783104.0/26

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: 20.890+/-0.000 χ^2/NDF : 3853626877865

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.932+/-0.000

χ^2/NDF : 457558497984735009745600284668723200.0/25

Left: 26.619+/-0.000 χ^2/NDF : 35227684296675597

Right: 29.367+/-0.000 χ^2/NDF : 3168345614470359

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

In: -22.874+/-0.000 χ^2/NDF : 33433313395534375

Right Out: -980.816+/-0.000

χ^2/NDF : 3536932158628458017817819611136.0/26

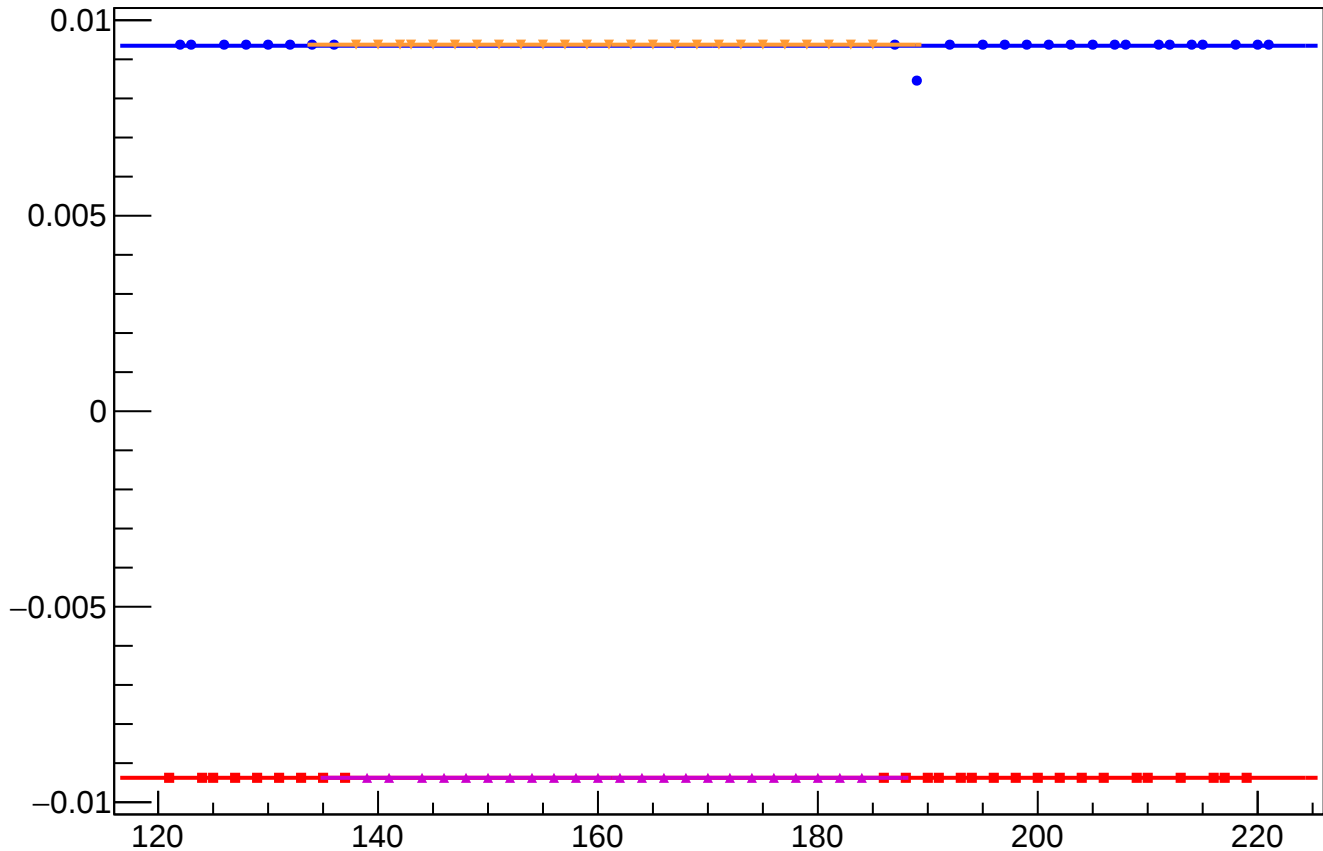
Out: 78.770+/-0.000 χ^2/NDF : 33296459253255371

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 27.912+/-0.000 χ^2/NDF : 6691127268487

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: 0.000+/-0.000

χ^2/NDF : 28947002223147008

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

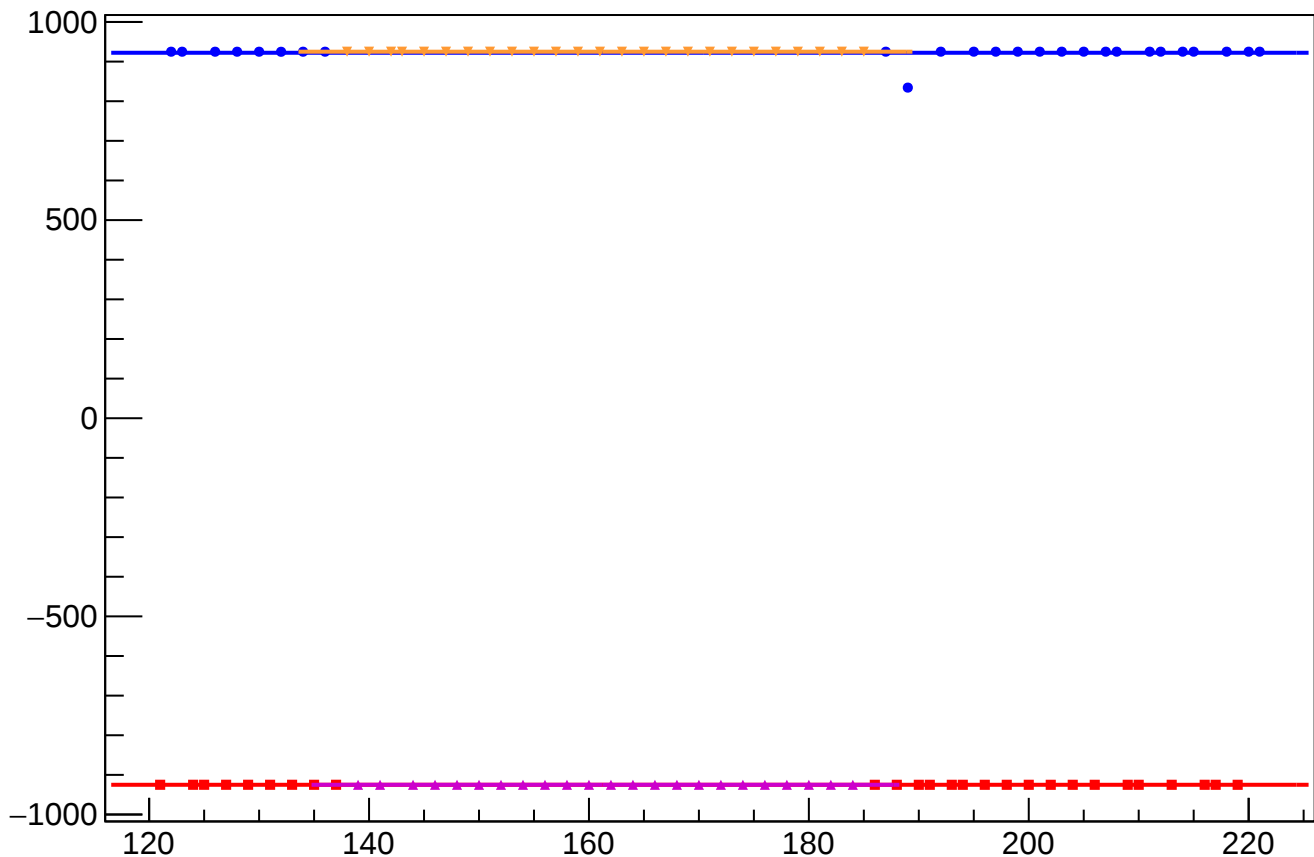
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

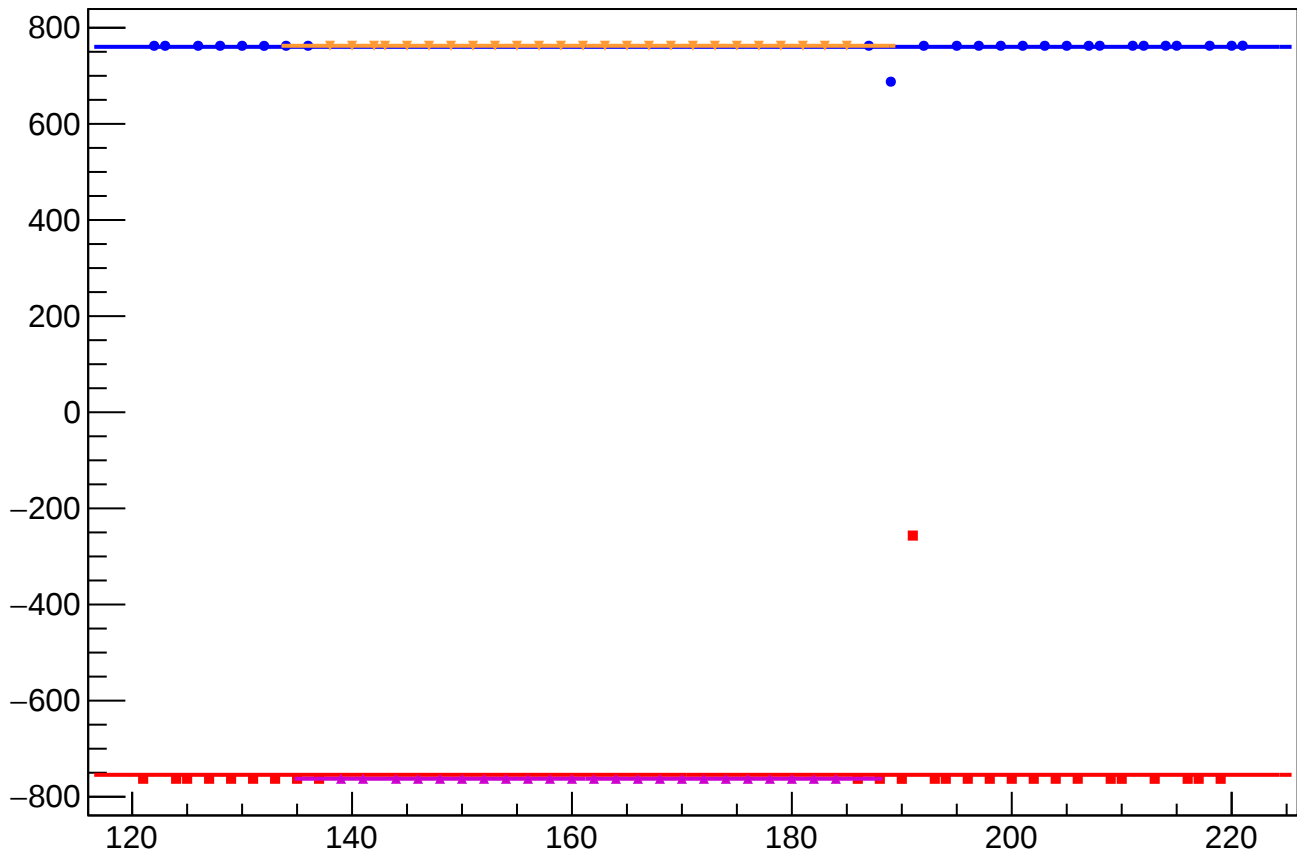
χ^2/NDF : 61628125287755

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 922.285+/-0.000	χ^2/NDF : 406612005254480811470176495234711552.0/25	Left: 24.610+/-0.000	χ^2/NDF : 31814082693920915
Left Out: 924.983+/-0.000	χ^2/NDF : 1041831865443970524066476982272.0/24	Right: 27.698+/-0.000	χ^2/NDF : 2818017536718833
Right Out: -925.000+/-0.000	χ^2/NDF : 946095739731195692794521845760.0/26	In: -29.194+/-0.000	χ^2/NDF : 29971800548933580
Left In: -924.983+/-0.000	χ^2/NDF : 888539224321534960792212865024.0/22	Out: 81.399+/-0.000	χ^2/NDF : 29807759132390253
		All: 26.063+/-0.000	χ^2/NDF : 5999442507293

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 760.311+/-0.000

χ^2/NDF : 276335745240541217446448140013010944.0/25

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -754.326+/-0.000

χ^2/NDF : 6548638176054627650031123488097435648.0/26

Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

Left: 20.287+/-0.000

χ^2/NDF : 21619874128230354

Right: 26.816+/-0.000

χ^2/NDF : 1901043779824535

In: -24.059+/-0.000

χ^2/NDF : 20368344368534790

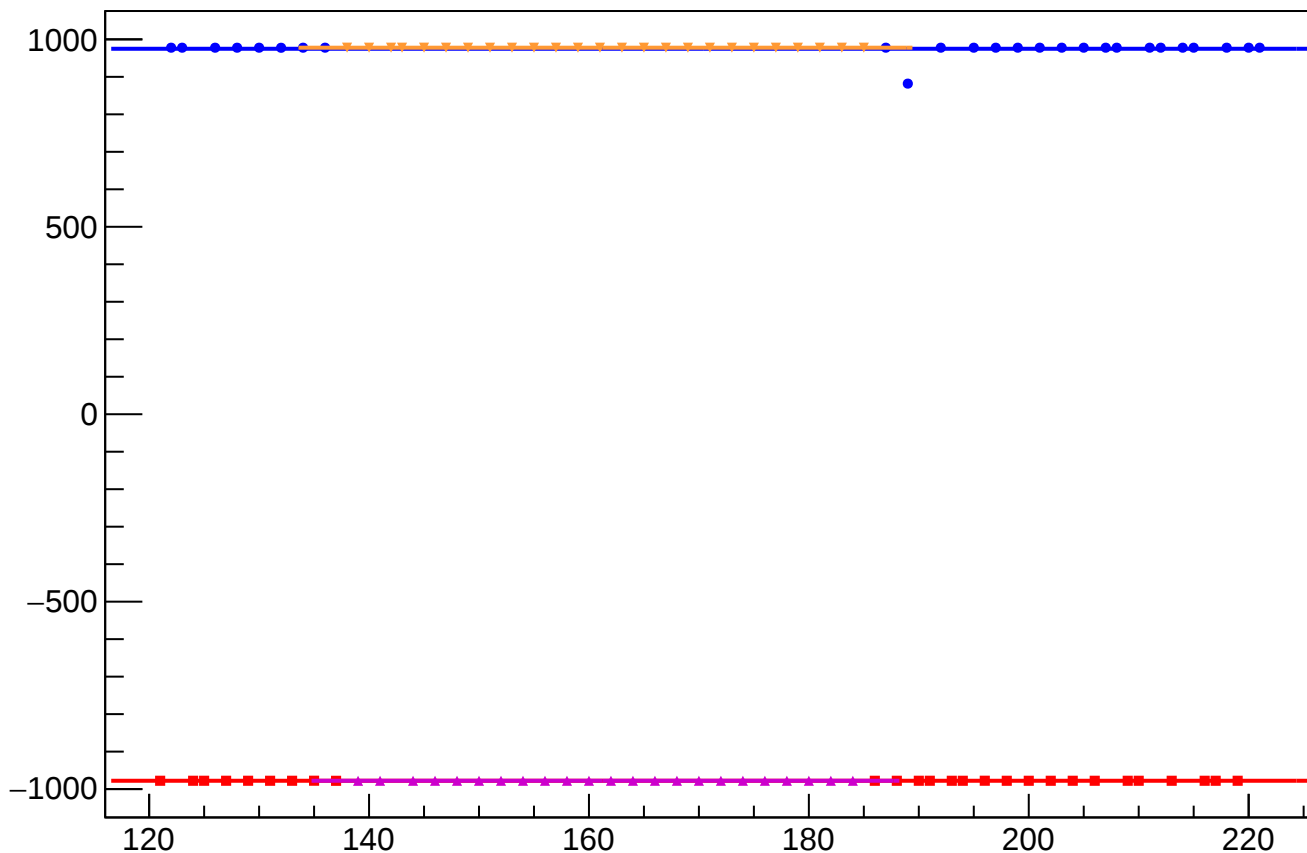
Out: 70.844+/-0.000

χ^2/NDF : 20104490036801564

All: 23.359+/-0.000

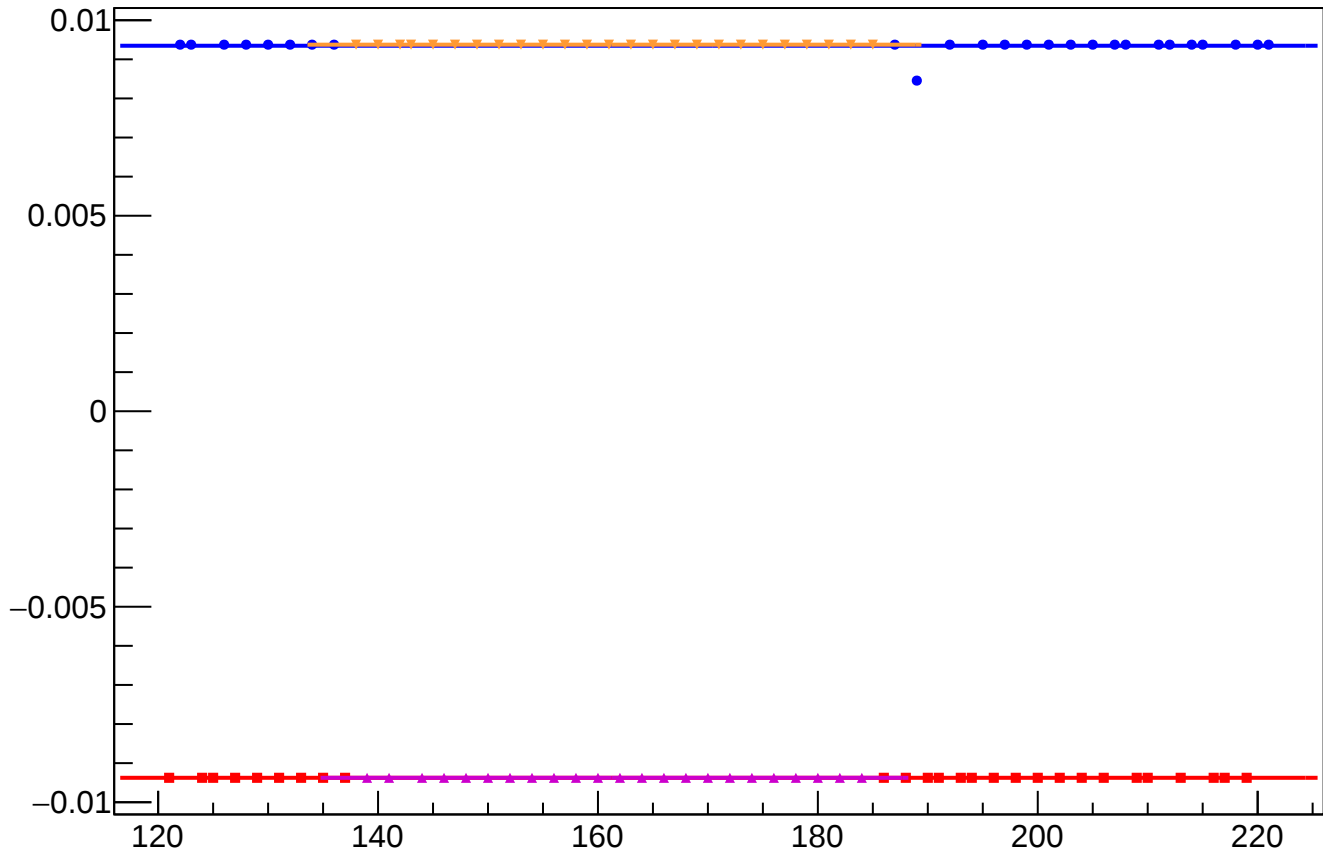
χ^2/NDF : 4063105816489

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.894 +/- 0.000 χ^2/NDF : 454449478182273816096111713578909696.0/25
 Left Out: 977.738 +/- 0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.758 +/- 0.000 χ^2/NDF : 1860431267044362431091676545024.0/26
 Left In: -977.735 +/- 0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 27.552 +/- 0.000 χ^2/NDF : 6703313130265

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 28947002223147008

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

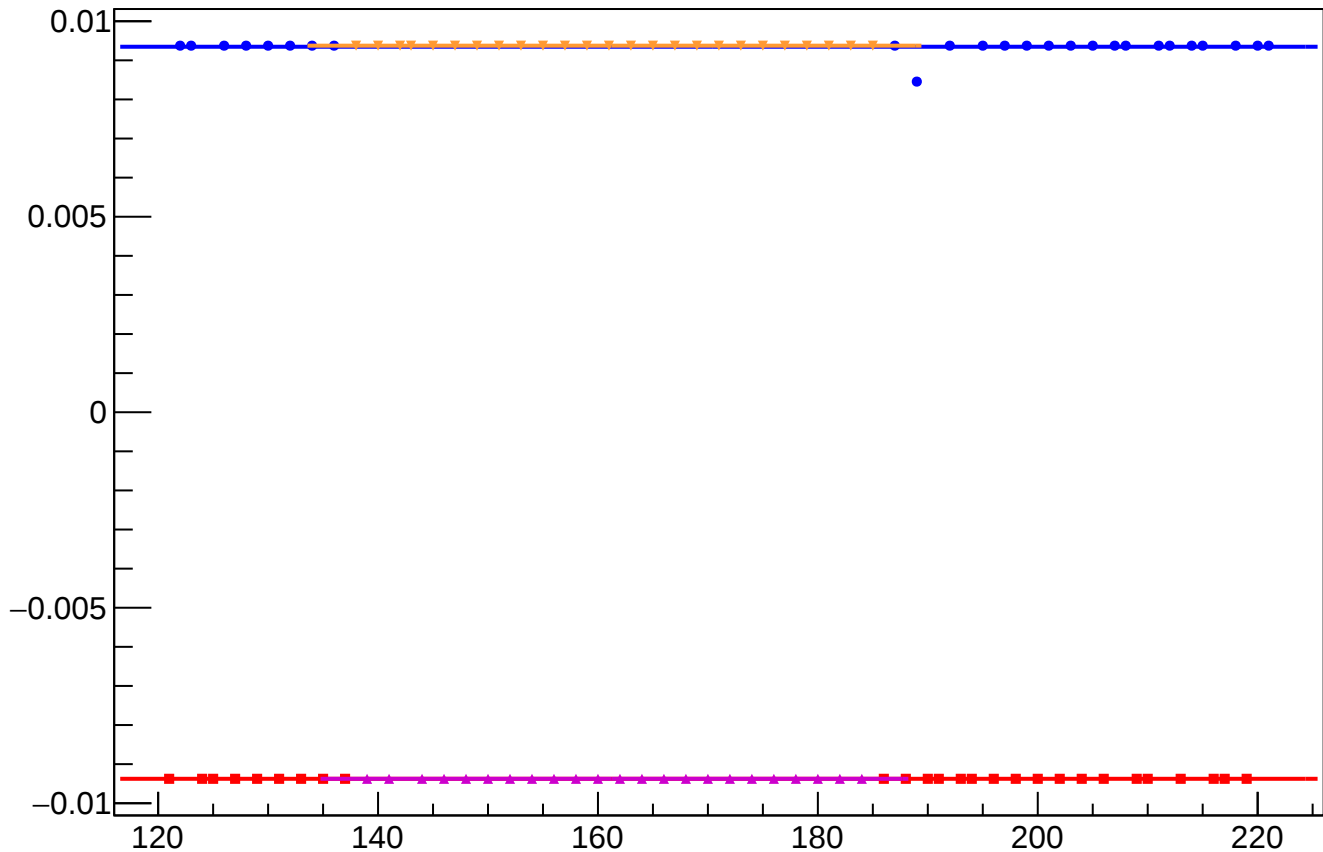
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

χ^2/NDF : 61628125287755

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 28947002223147008

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

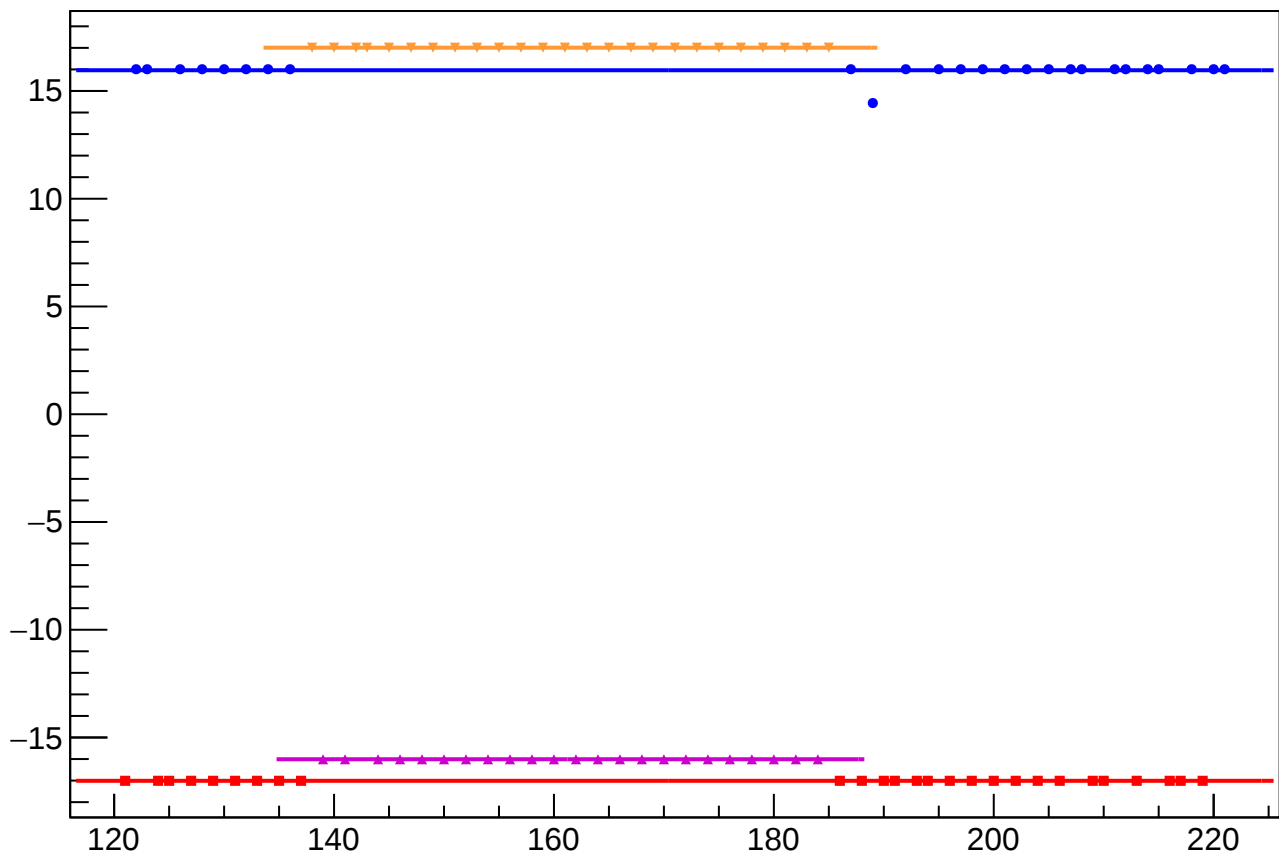
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

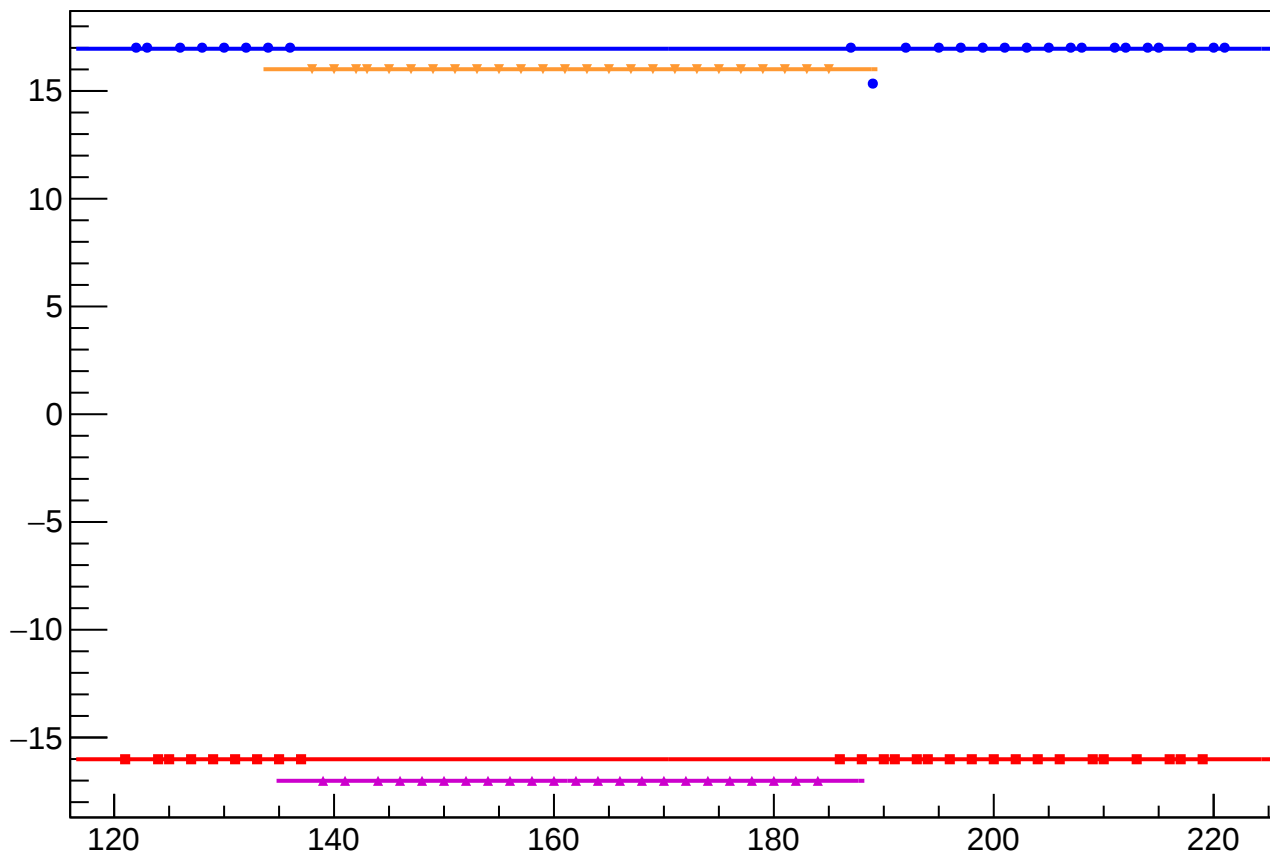
χ^2/NDF : 61628125287755

IGL1I00DI24_24M_mean vs Slug, Sign Corrected

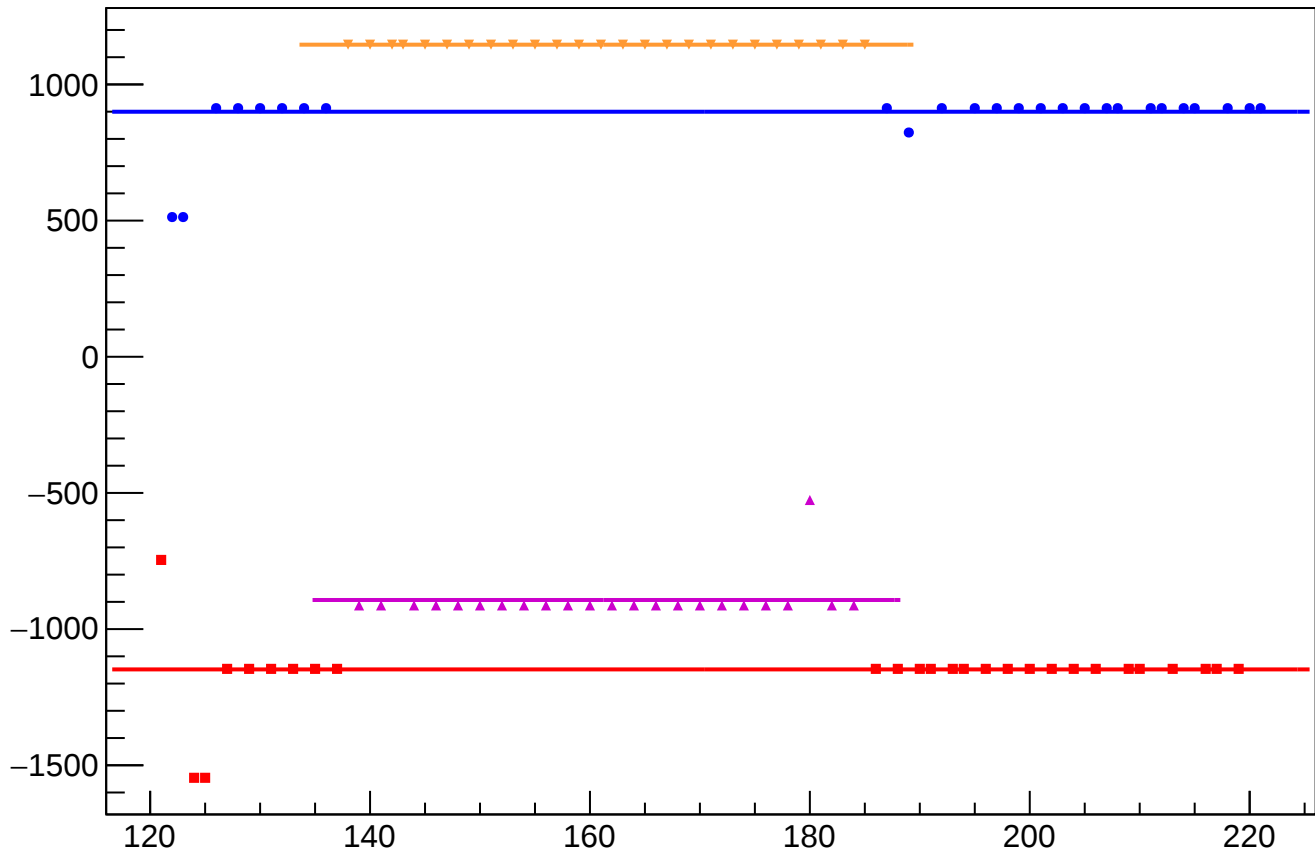


Right In: 15.962 ± 0.000 $\chi^2/\text{NDF}: 121819994942730203555189898608640.0/25$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 18464155514781331791806464.0/26$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.459 ± 0.000 $\chi^2/\text{NDF}: 18299259501305$

IGL1I00OD16_16_mean vs Slug, Sign Corrected

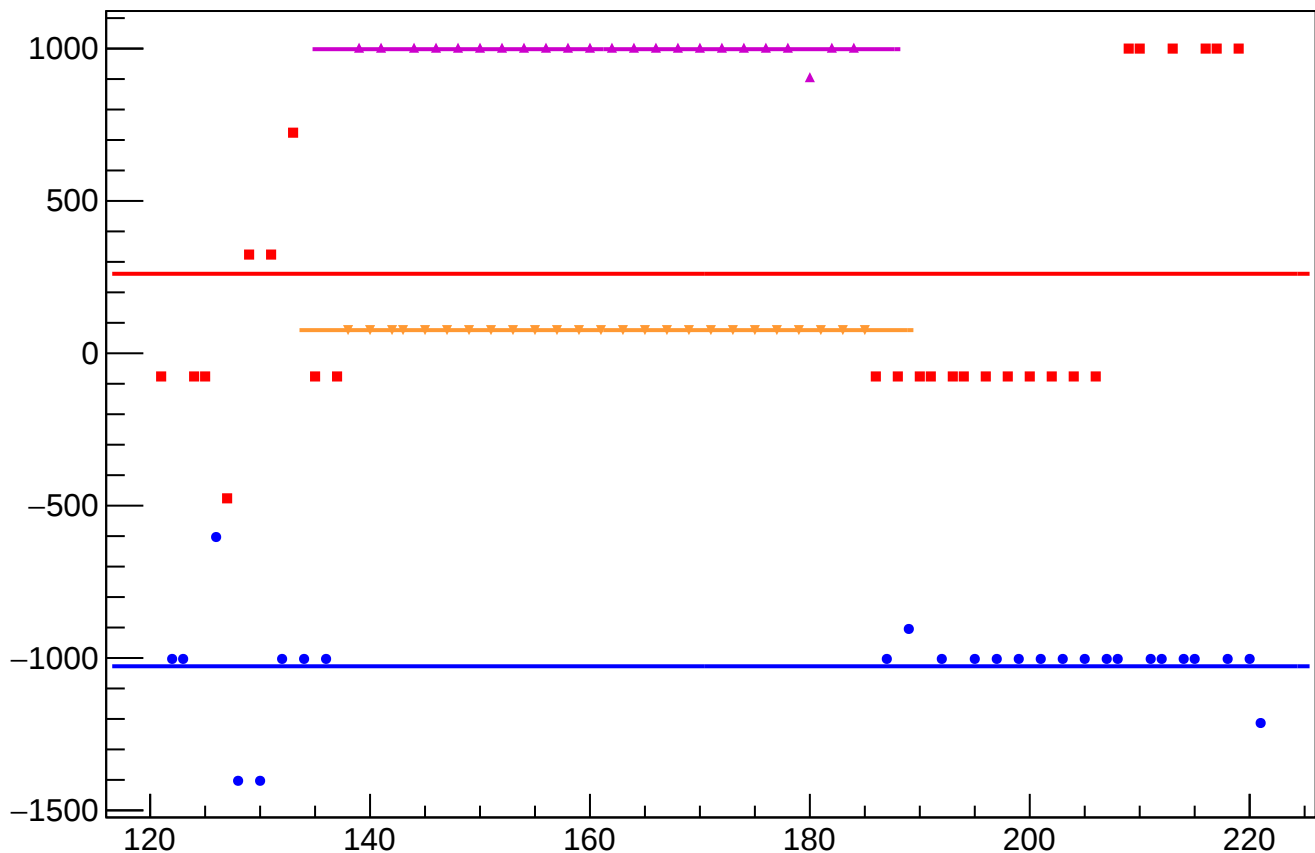


RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 899.759 +/- 0.000 χ^2/NDF : 7310031348023830234312566084389044224.0/25
 Left Out: 1146.011 +/- 0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.009 +/- 0.000 χ^2/NDF : 13754271185883278485733122331782414336.0/26
 Left In: -893.116 +/- 0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 38.078 +/- 0.000 χ^2/NDF : 7467440823046

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1027.142+/-0.000

χ^2/NDF : 26946866227353315433142559360734461952.0/25

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 260.938+/-0.000

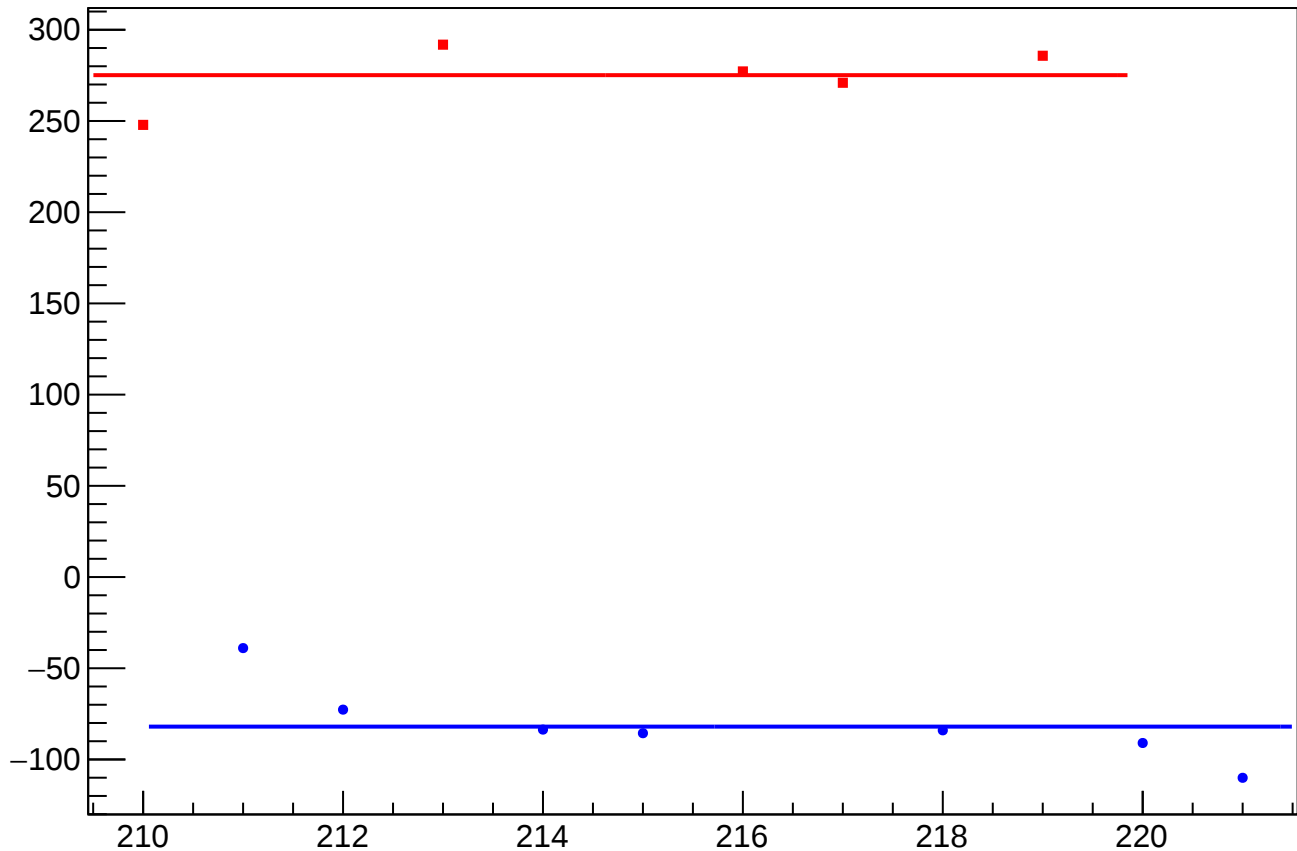
χ^2/NDF : 393215478595281931183613211087833399296.0/26

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

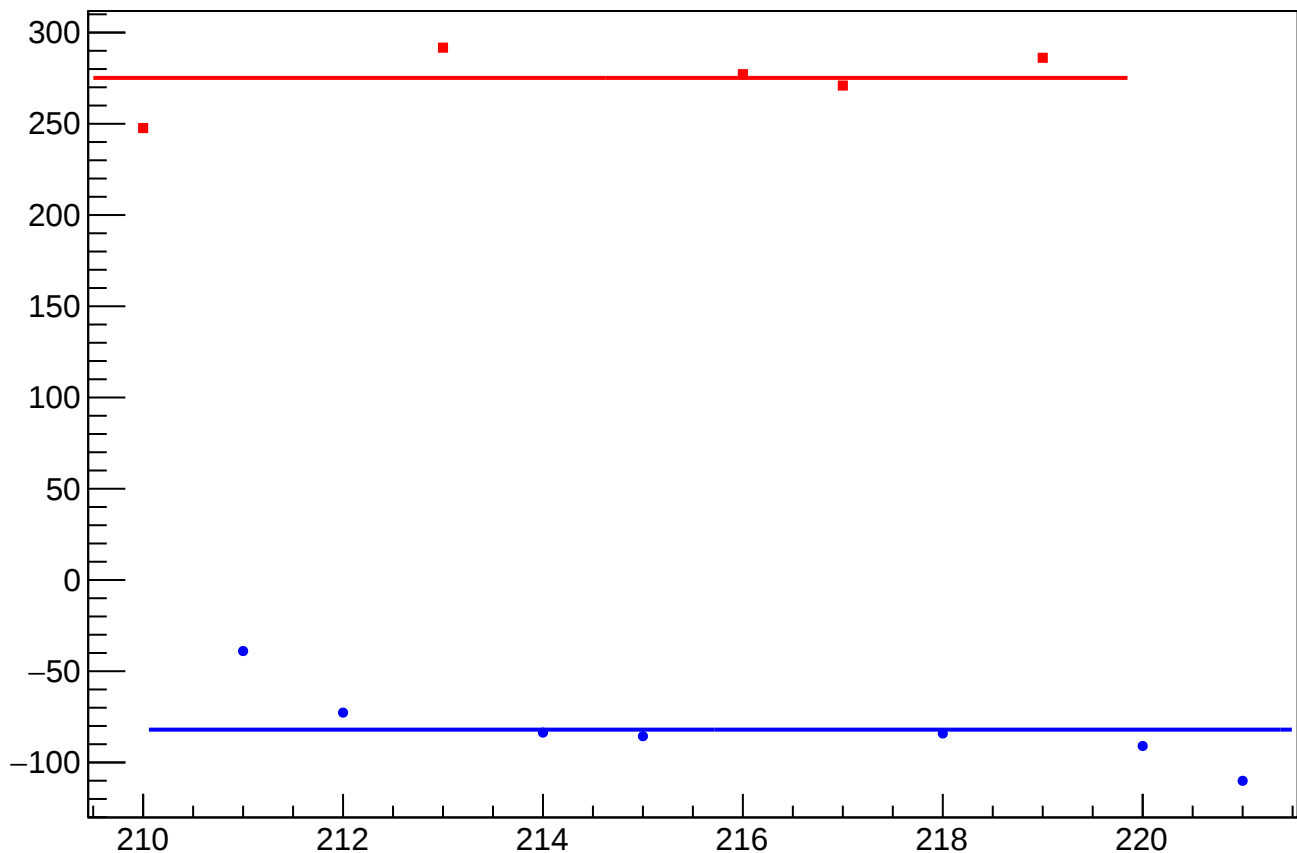
All: 88.100+/-0.000 χ^2/NDF : 4089138046813

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: -81.993 ± 0.000 $\chi^2/\text{NDF}: 232965807440114543061160692918779904.0/6$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 275.123 ± 0.000 $\chi^2/\text{NDF}: 86164430592231083349779893945630720.0/4$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 62.140 ± 0.000 $\chi^2/\text{NDF}: 2929788203340795$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -82.009 ± 0.000 $\chi^2/\text{NDF}: 233003960766820179277790849840185344.0/6$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 275.151 ± 0.000 $\chi^2/\text{NDF}: 87316479018886398499496763095777280.0/4$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 62.141 ± 0.000 $\chi^2/\text{NDF}: 2930627339606764$