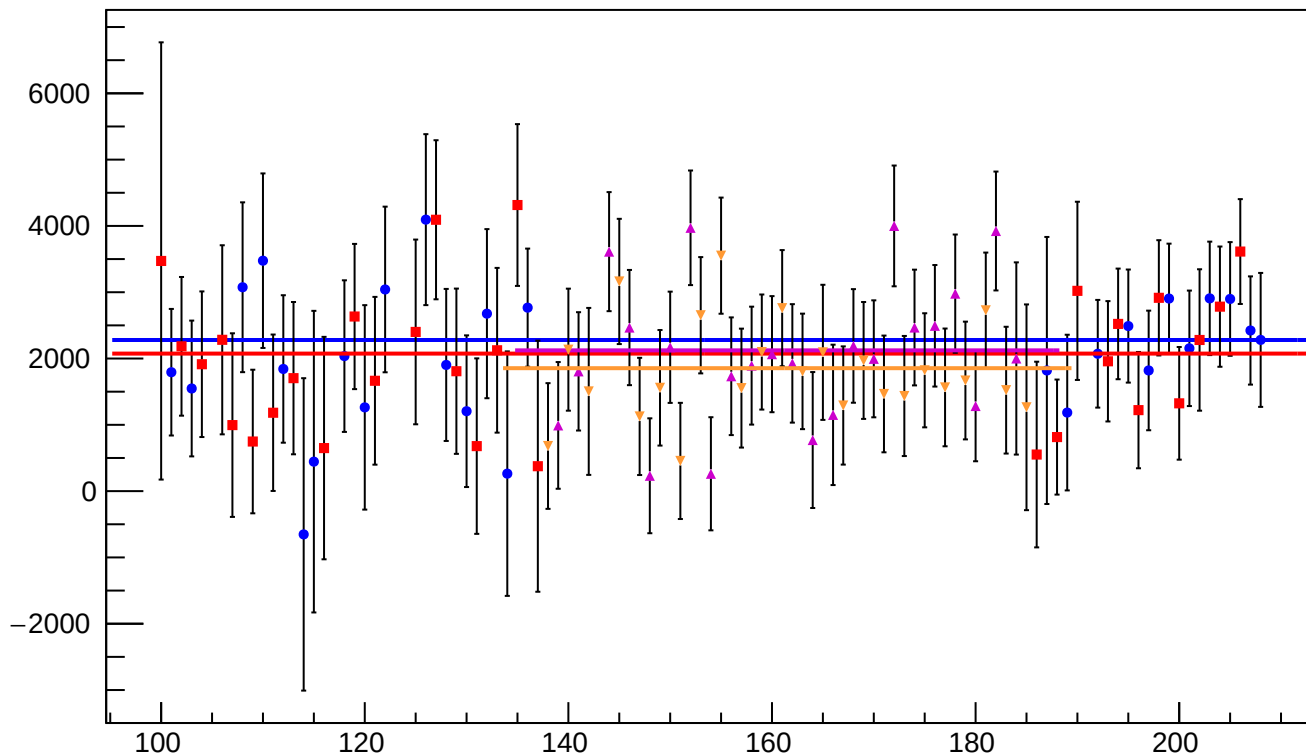


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2279.466+/-205.770

Left Out: 1854.267+/-187.405

Right Out: 2074.382+/-205.149

Left In: 2123.138+/-188.684

χ^2/NDF : 12.7/26

χ^2/NDF : 15.1/23

χ^2/NDF : 23.5/28

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2176.614+/-145.281

In: 2194.544+/-139.068

Out: 1954.396+/-138.364

All: 2073.860+/-98.086

χ^2/NDF : 48.1/46

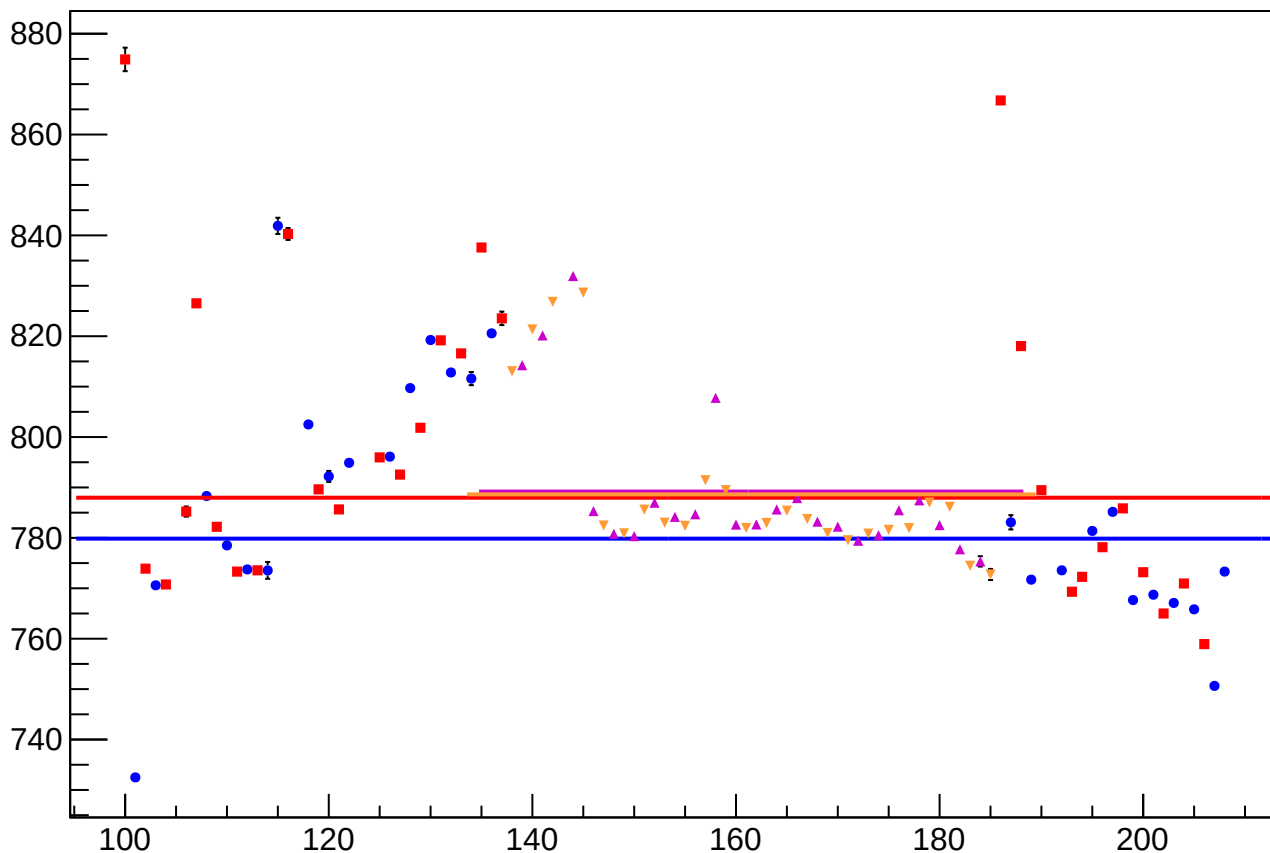
χ^2/NDF : 36.7/55

χ^2/NDF : 45.1/49

χ^2/NDF : 39.2/52

χ^2/NDF : 85.8/102

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 779.848 $\pm$ 0.146 χ^2 /NDF: 22774.2/26

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

Right Out: 787.968 $\pm$ 0.145 χ^2 /NDF: 28455.8/28

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

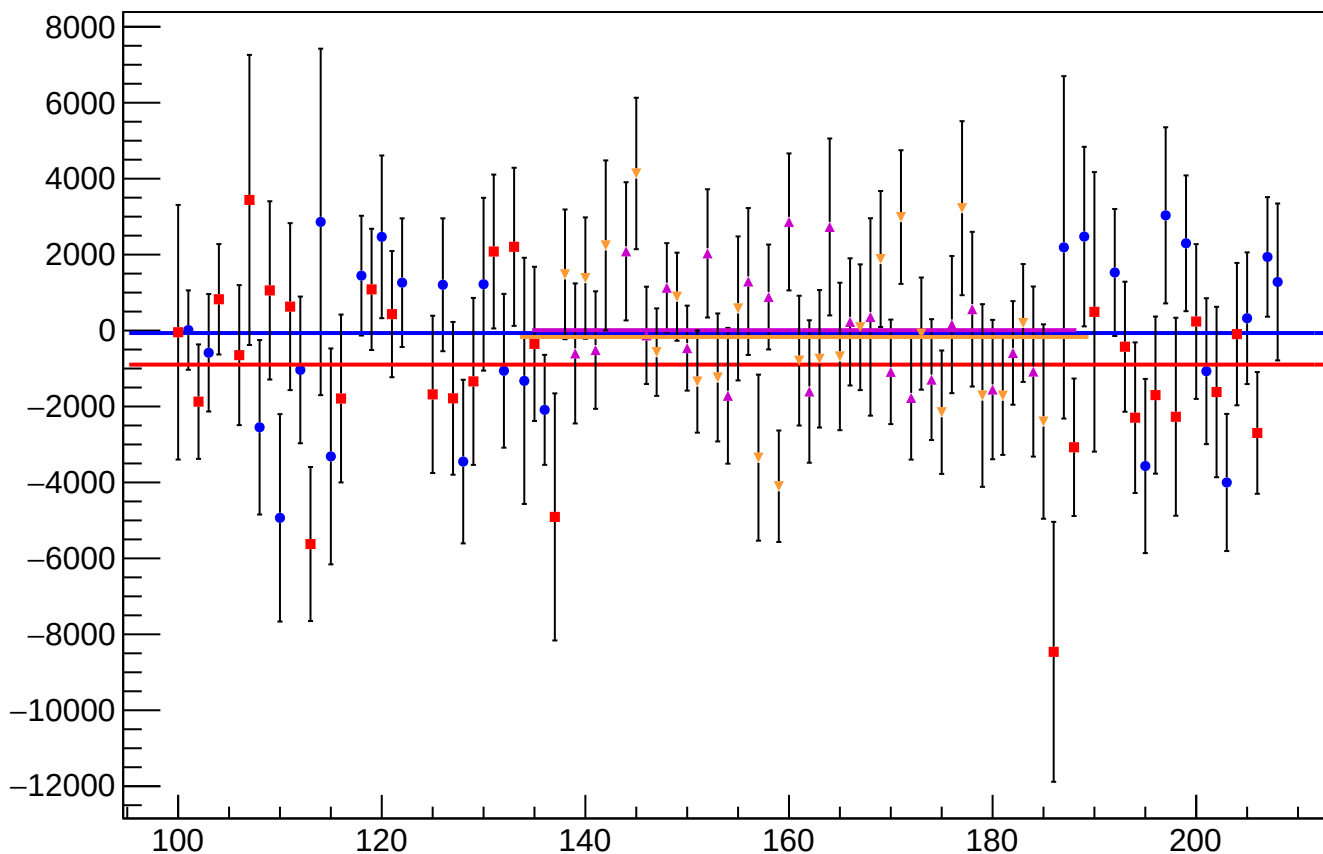
Right: 783.920 $\pm$ 0.103 χ^2 /NDF: 52792.1/55

In: 784.920 $\pm$ 0.098 χ^2 /NDF: 36354.4/49

Out: 788.329 $\pm$ 0.098 χ^2 /NDF: 39945.2/52

All: 786.633 $\pm$ 0.069 χ^2 /NDF: 76903.5/102

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -65.369 ± 366.666 χ^2/NDF : 30.3/26

Left Out: -169.172 ± 340.391 χ^2/NDF : 30.0/23

Right Out: -897.258 ± 377.764 χ^2/NDF : 27.8/28

Left In: 10.093 ± 337.810 χ^2/NDF : 14.2/22

Left: -78.858 ± 239.775 χ^2/NDF : 44.4/46

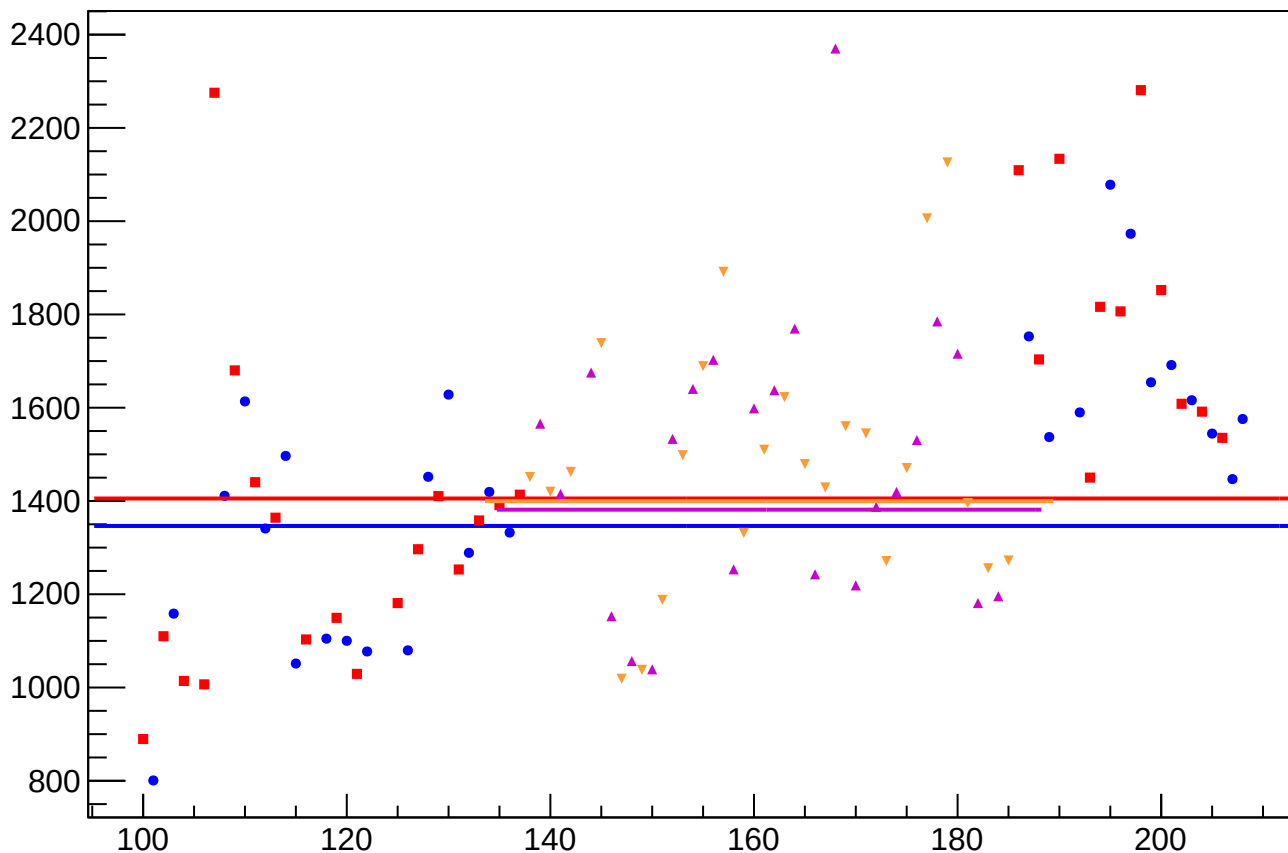
Right: -468.914 ± 263.108 χ^2/NDF : 60.6/55

In: -24.552 ± 248.444 χ^2/NDF : 44.5/49

Out: -495.427 ± 252.876 χ^2/NDF : 59.9/52

All: -255.827 ± 177.223 χ^2/NDF : 106.2/102

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1346.459 $\pm$ 0.259 χ^2 /NDF: 1476298.7/26

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

Right Out: 1405.332 $\pm$ 0.267 χ^2 /NDF: 1478717.1/28

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

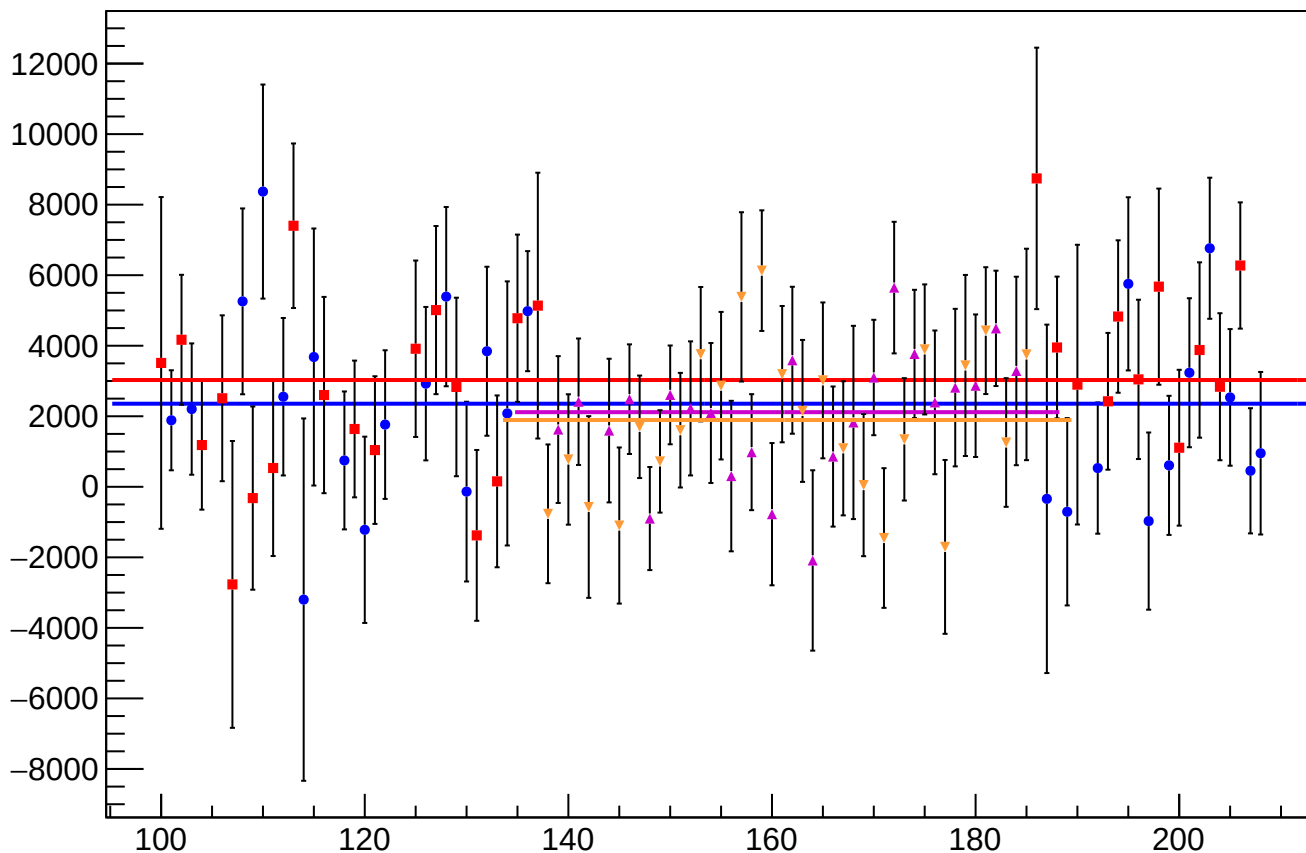
Right: 1375.018 $\pm$ 0.186 χ^2 /NDF: 2980028.4/55

In: 1365.336 $\pm$ 0.176 χ^2 /NDF:2762587.4/49

Out: 1402.161 $\pm$ 0.179 χ^2 /NDF:2598097.5/52

All: 1383.423 $\pm$ 0.125 χ^2 /NDF: 5382267.2/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2356.188 $\pm$ 430.628 χ^2 /NDF: 28.0/26

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

Right Out: 3027.828 $\pm$ 439.676 χ^2 /NDF: 25.9/28

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

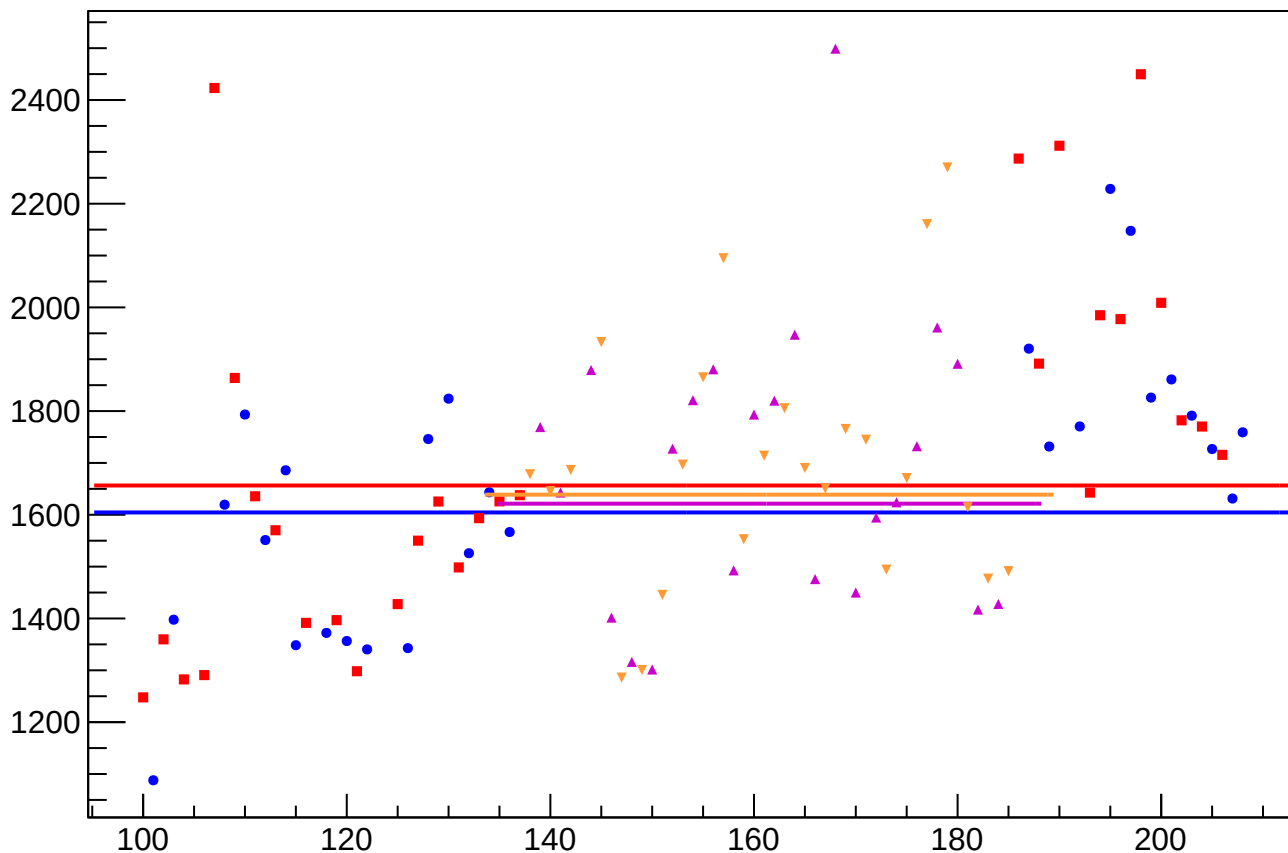
Right: 2685.027 $\pm$ 307.649 χ^2 /NDF: 55.1/55

In: 2225.205 $\pm$ 290.285 χ^2 /NDF:46.9/49

Out: 2399.931 $\pm$ 293.786 χ^2 /NDF:55.6/52

All: 2311.521 $\pm$ 206.489 χ^2 /NDF: 102.7/102

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1604.446 $\pm$ 0.305 χ^2 /NDF: 781005.4/26

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

Right Out: 1656.476 $\pm$ 0.311 χ^2 /NDF: 882771.2/28

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

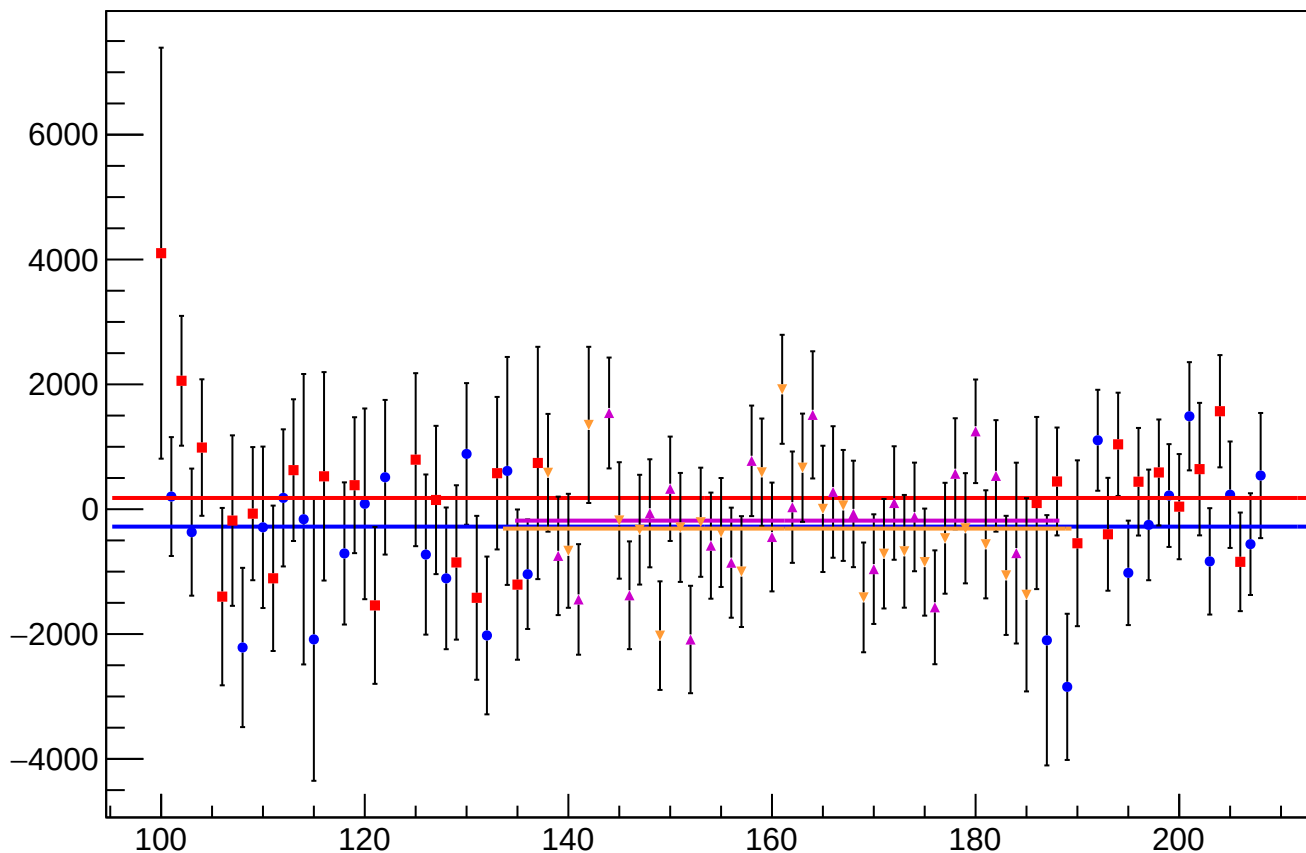
Right: 1629.920 $\pm$ 0.218 χ^2 /NDF: 1678071.2/55

In: 1613.705 $\pm$ 0.205 χ^2 /NDF: 1558010.2/49

Out: 1646.695 $\pm$ 0.208 χ^2 /NDF: 1556465.8/52

All: 1630.002 $\pm$ 0.146 χ^2 /NDF: 3127236.8/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -278.967 ± 204.144 χ^2/NDF : 24.0/26

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

Right Out: 179.937 ± 203.224 χ^2/NDF : 20.3/28

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

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

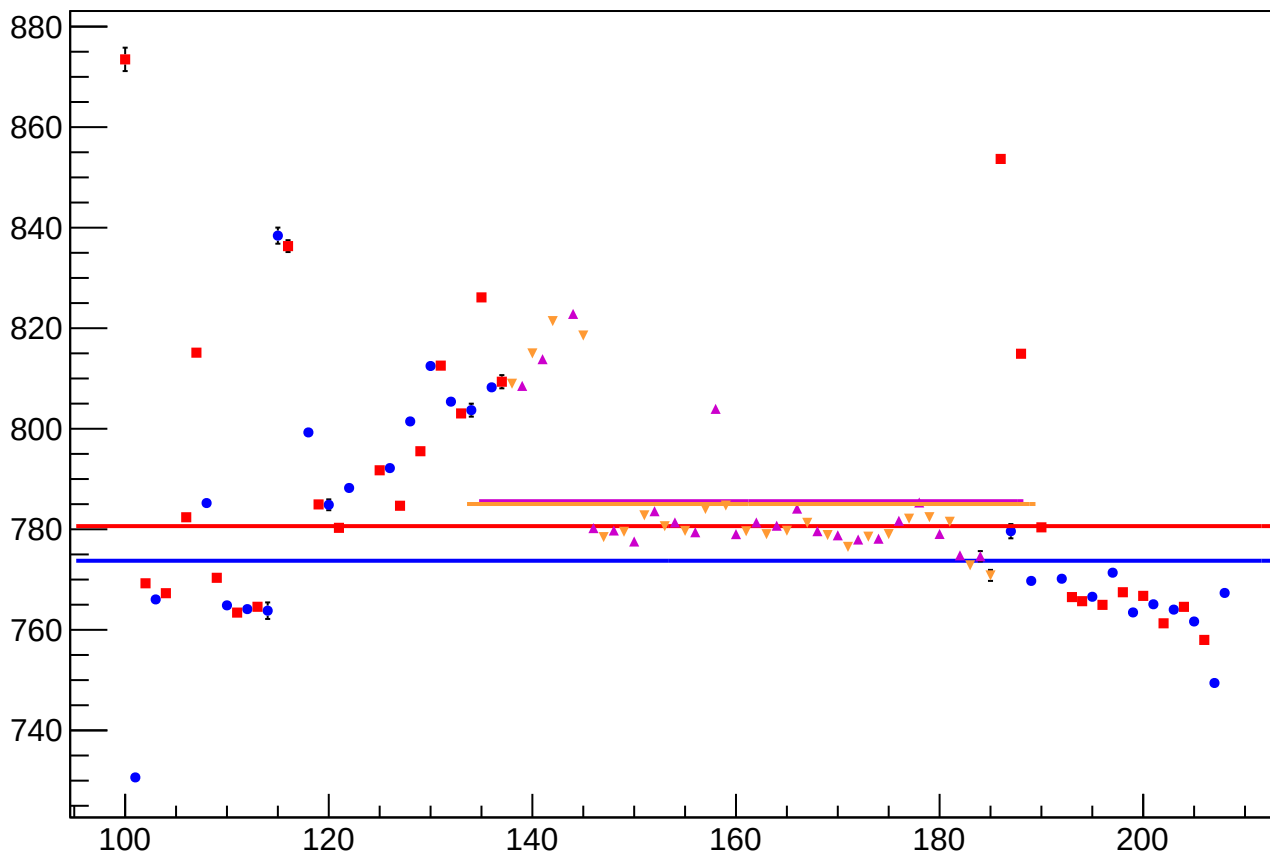
Right: -48.478 ± 144.025 χ^2/NDF : 46.9/55

In: -226.936 ± 138.219 χ^2/NDF : 50.3/49

Out: -86.273 ± 137.423 χ^2/NDF : 43.5/52

All: -156.199 ± 97.453 χ^2/NDF : 94.3/102

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.743+/-0.144 χ^2/NDF : 19771.6/26

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

Right Out: 780.633+/-0.144 χ^2/NDF : 26846.7/28

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

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

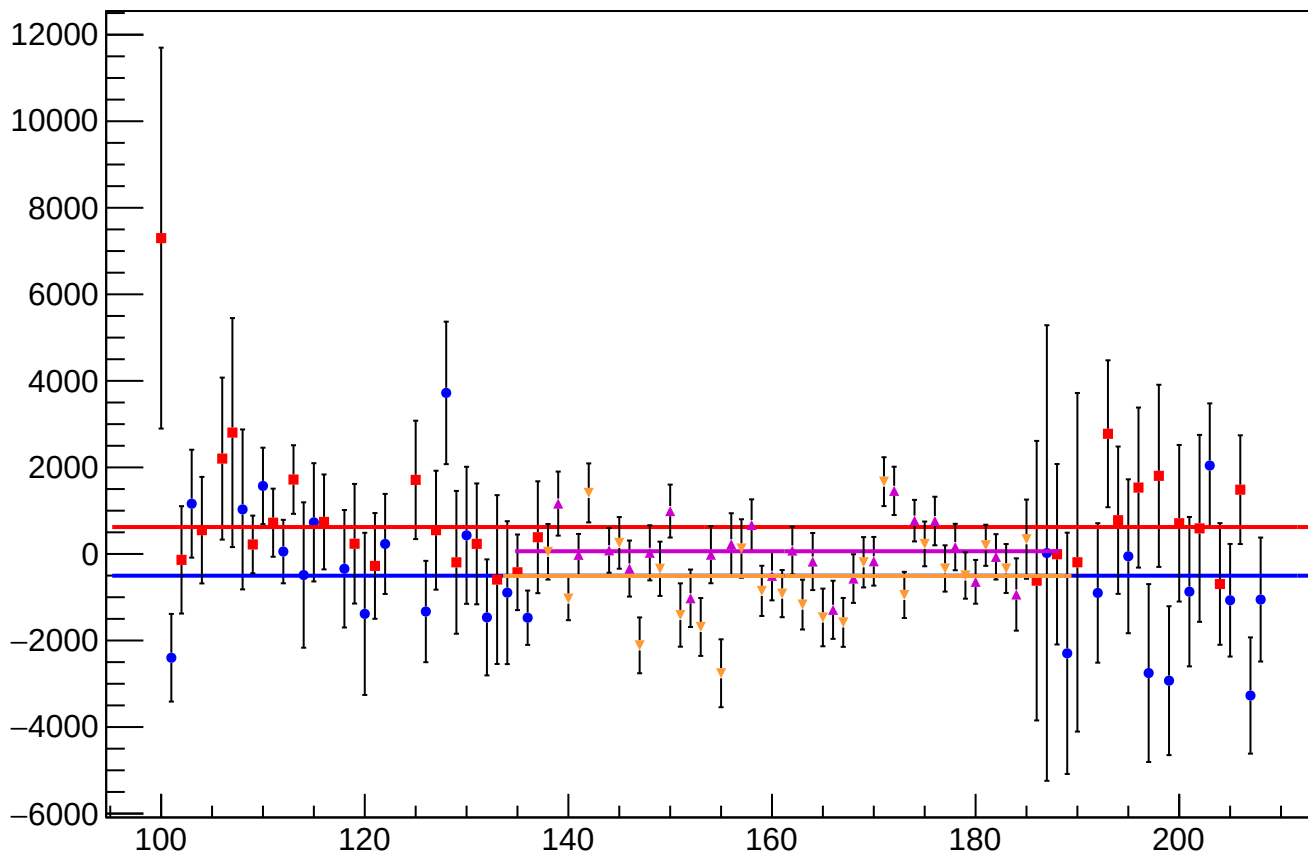
Right: 777.204+/-0.102 χ^2/NDF : 47762.4/55

In: 780.160+/-0.098 χ^2/NDF : 32794.3/49

Out: 783.020+/-0.097 χ^2/NDF : 36722.9/52

All: 781.598+/-0.069 χ^2/NDF : 69947.6/102

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -502.516 $\pm$ 247.217 χ^2 /NDF: 35.4/26

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

Right Out: 621.991 $\pm$ 245.099 χ^2 /NDF: 13.6/28

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

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

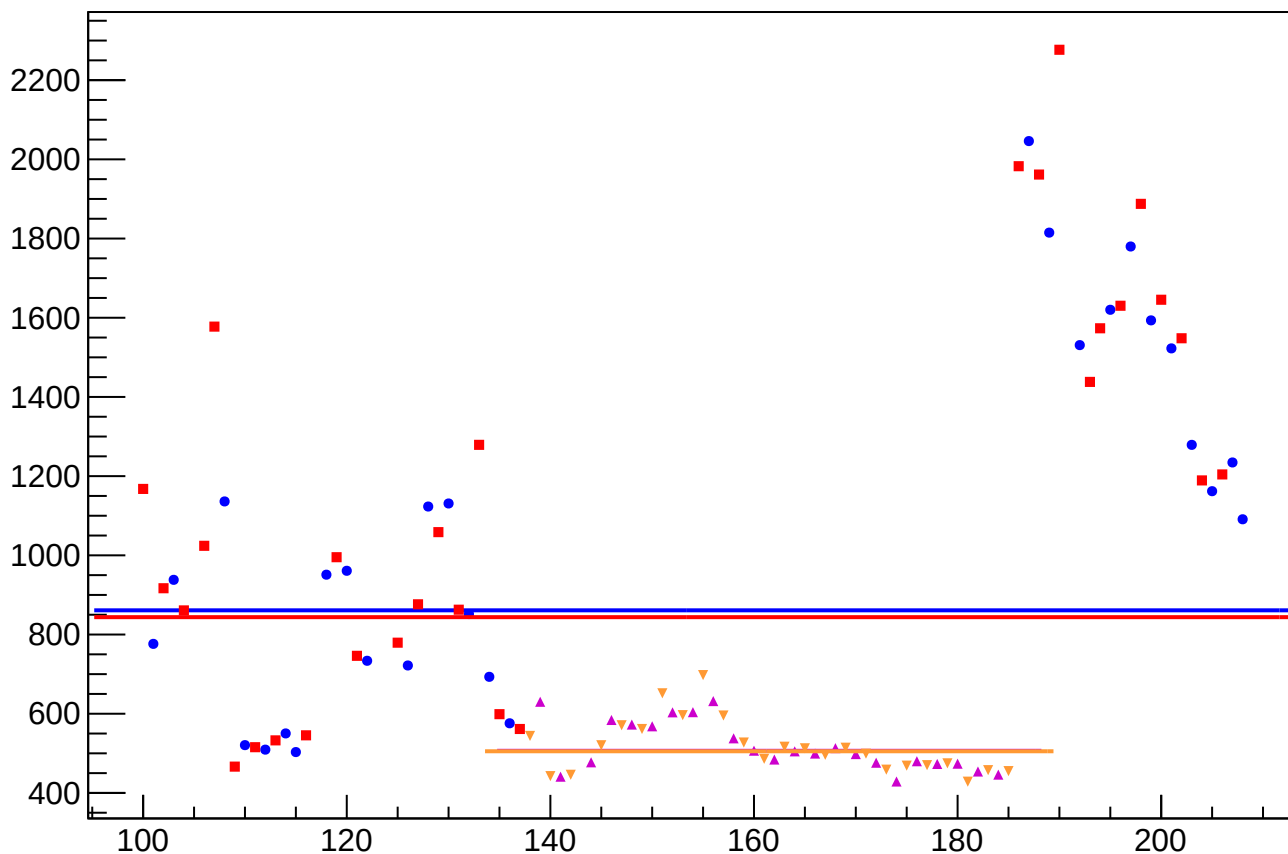
Right: 64.575 $\pm$ 174.055 χ^2 /NDF: 59.5/55

In: -48.005 $\pm$ 109.436 χ^2 /NDF:68.4/49

Out: -287.061 $\pm$ 108.636 χ^2 /NDF:91.3/52

All: -168.410 $\pm$ 77.098 χ^2 /NDF: 162.1/102

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 861.148 $\pm$ 0.175 χ^2 /NDF: 4220302.6/26

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

Right Out: 843.877 $\pm$ 0.173 χ^2 /NDF: 5512123.0/28

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

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

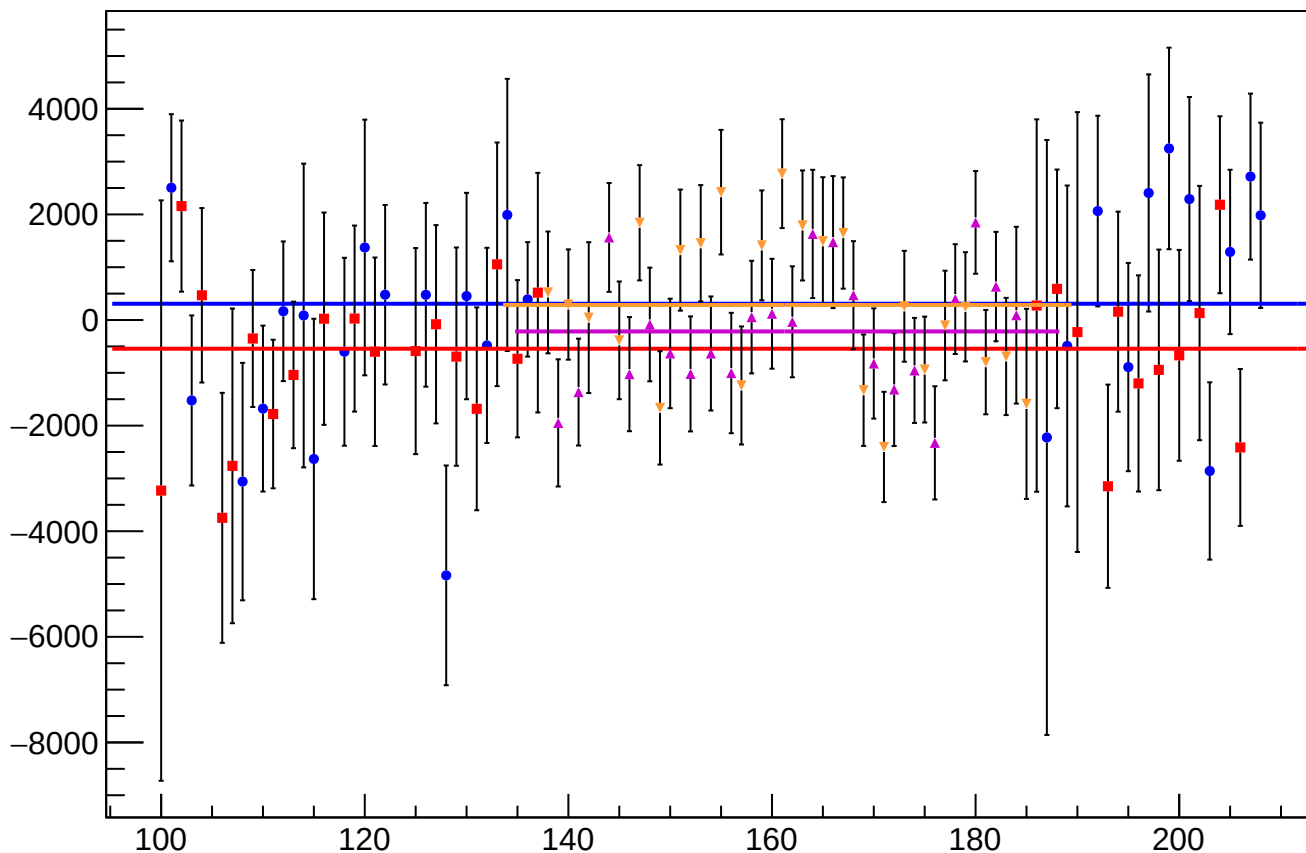
Right: 852.438 $\pm$ 0.123 χ^2 /NDF: 9737348.2/55

In: 575.900 $\pm$ 0.077 χ^2 /NDF: 7968212.2/49

Out: 571.751 $\pm$ 0.077 χ^2 /NDF: 9065868.6/52

All: 573.810 $\pm$ 0.055 χ^2 /NDF: 17035528.9/100

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 308.281 ± 348.590 χ^2/NDF : 29.2/26

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

Right Out: -543.728 ± 353.470 χ^2/NDF : 14.7/28

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

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

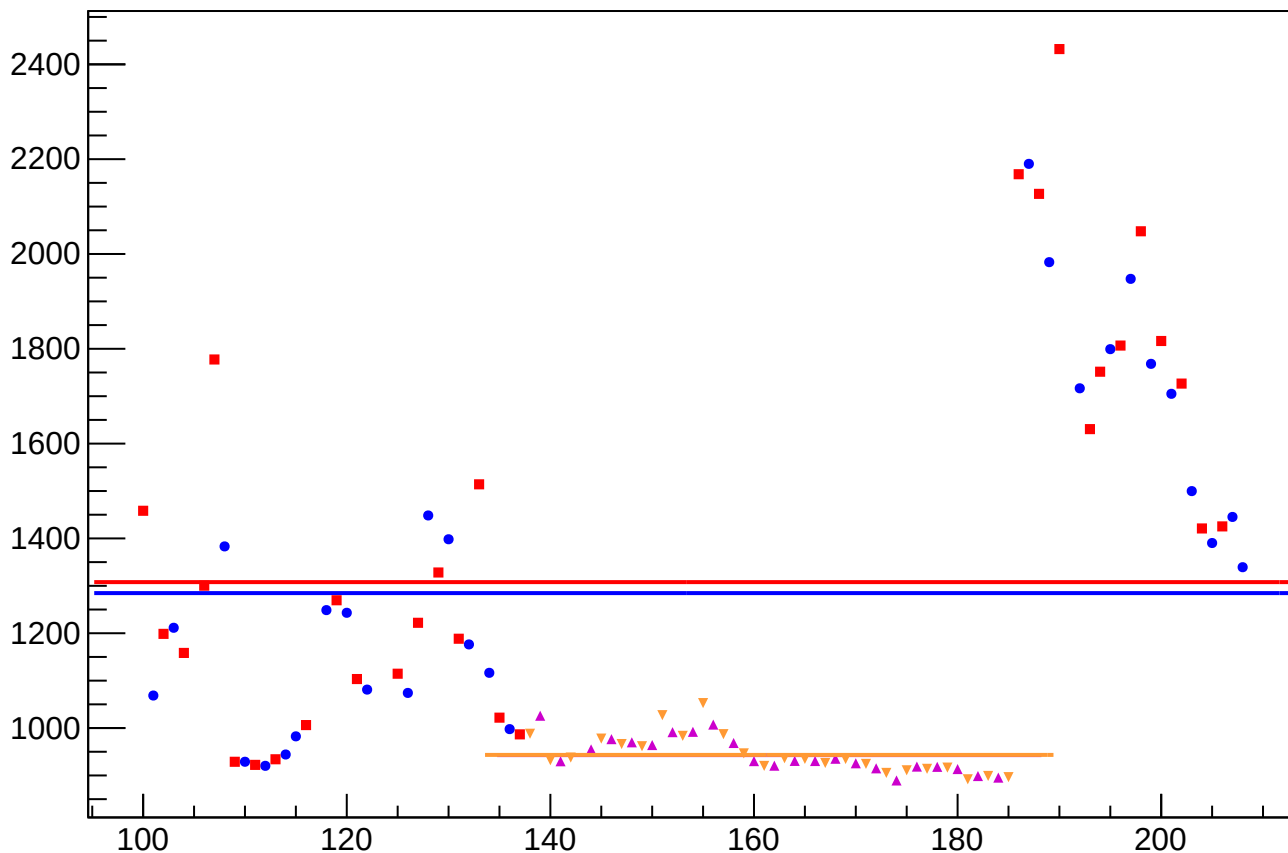
Right: -111.801 ± 248.197 χ^2/NDF : 46.9/55

In: -61.318 ± 189.397 χ^2/NDF : 55.2/49

Out: 47.078 ± 189.434 χ^2/NDF : 56.9/52

All: -7.131 ± 133.937 χ^2/NDF : 112.3/102

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1284.656+/-0.246 χ^2/NDF : 1468326.9/26

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

Right Out: 1307.828+/-0.250 χ^2/NDF : 2011519.1/28

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

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

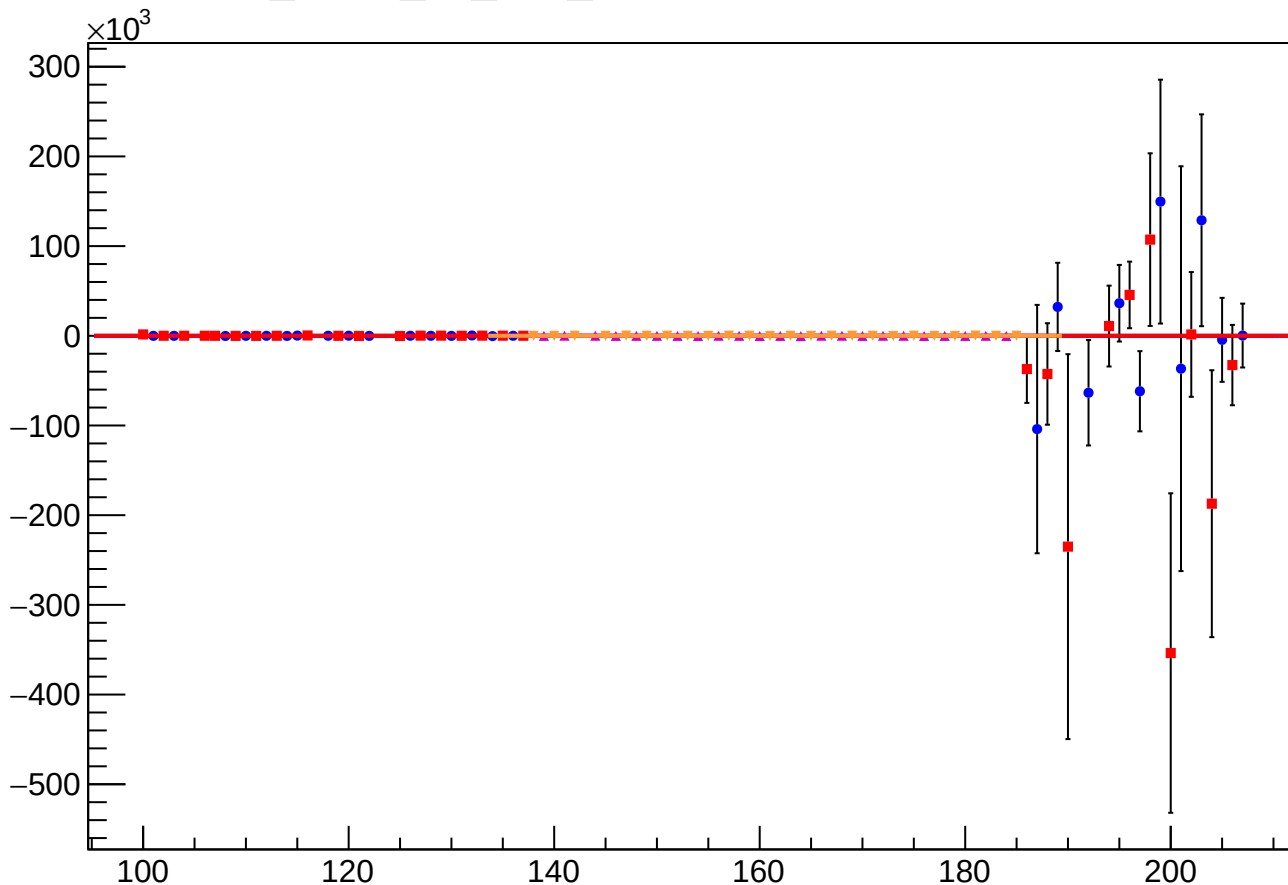
Right: 1296.081+/-0.176 χ^2/NDF : 3484203.3/55

In: 1043.805+/-0.134 χ^2/NDF : 2871395.4/49

Out: 1048.035+/-0.134 χ^2/NDF : 3587622.6/52

All: 1045.920+/-0.095 χ^2/NDF : 6459516.8/100

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.557 ± 30.032 χ^2/NDF : 23.2/25

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

Right Out: 31.726 ± 30.492 χ^2/NDF : 28.4/27

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

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

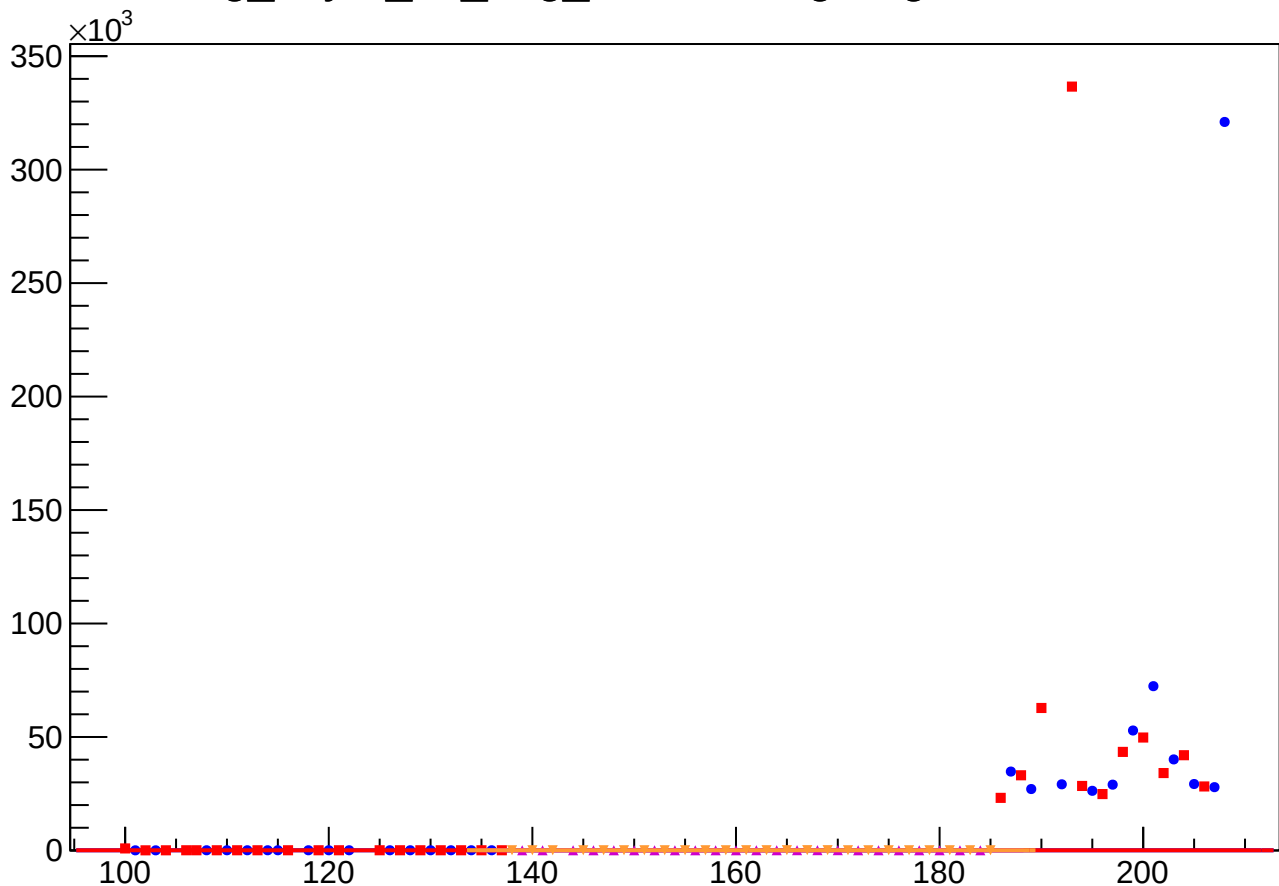
Right: 7.726 ± 21.397 χ^2/NDF : 52.8/53

In: -20.420 ± 17.527 χ^2/NDF : 45.7/48

Out: 12.995 ± 17.553 χ^2/NDF : 51.4/51

All: -3.737 ± 12.403 χ^2/NDF : 98.9/100

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.139 $\pm$ 0.021 χ^2 /NDF: 6229053.6/26

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

Right Out: 79.455 $\pm$ 0.022 χ^2 /NDF: 5795031.1/28

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

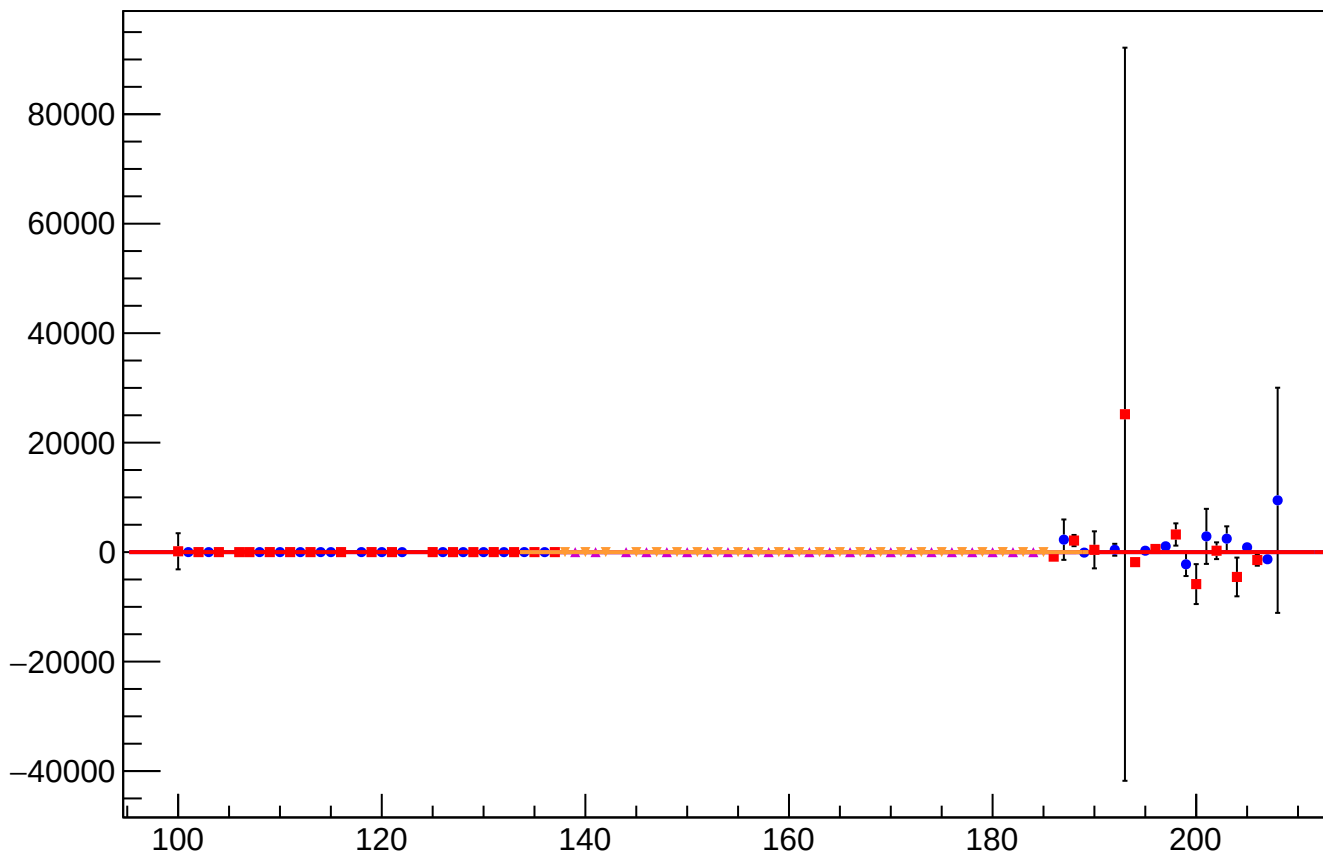
Right: 77.772 $\pm$ 0.015 χ^2 /NDF: 12036094.6/55

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 7002351.7/49

Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6412038.8/52

All: 85.655 $\pm$ 0.009 χ^2 /NDF: 13419778.5/102

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.1/26

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.0/28

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

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

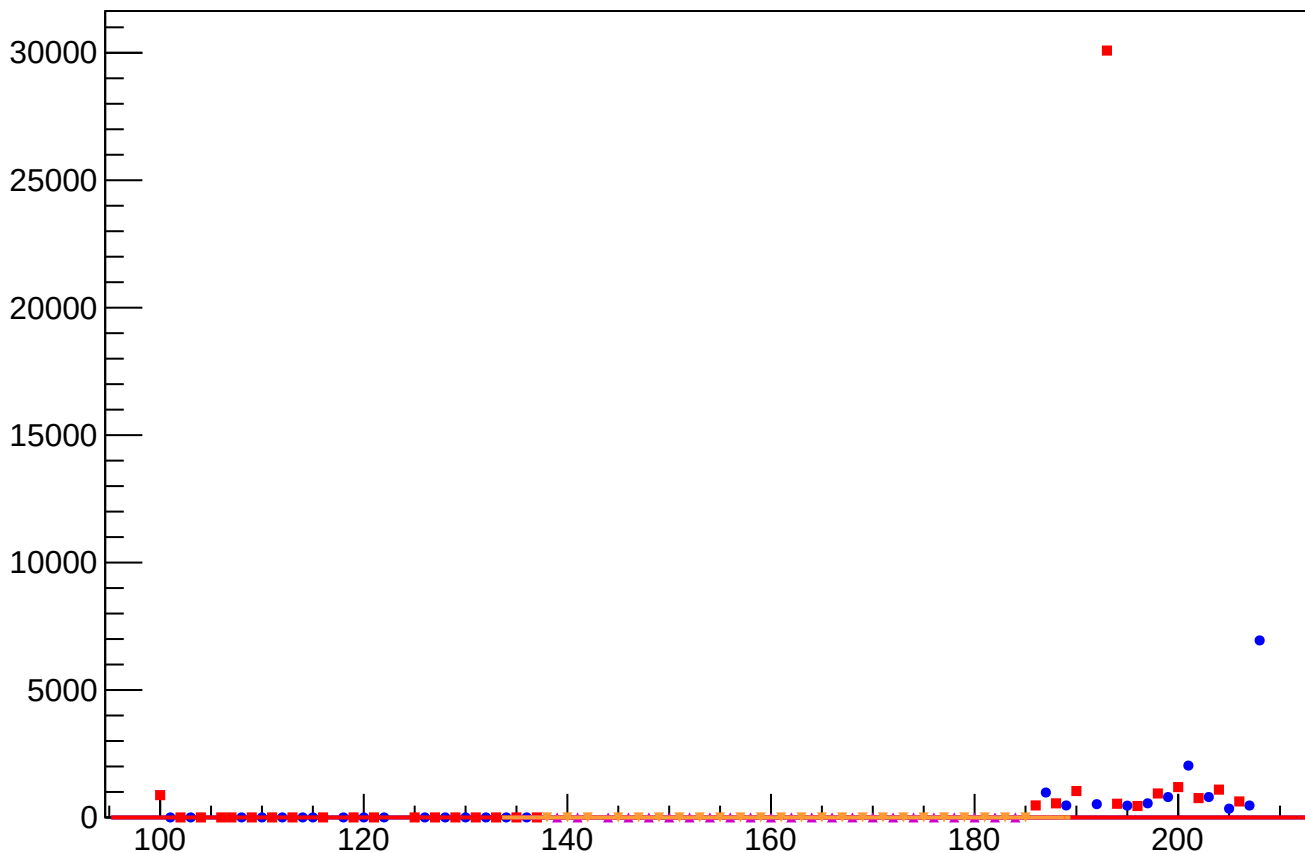
Right: -0.133 ± 0.363 χ^2/NDF : 60.3/55

In: -0.433 ± 0.306 χ^2/NDF : 57.5/49

Out: 0.096 ± 0.306 χ^2/NDF : 50.4/52

All: -0.168 ± 0.217 χ^2/NDF : 109.4/102

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 5537016.2/26

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

Right Out: 1.260+/-0.000 χ^2/NDF : 5924913.8/28

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

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

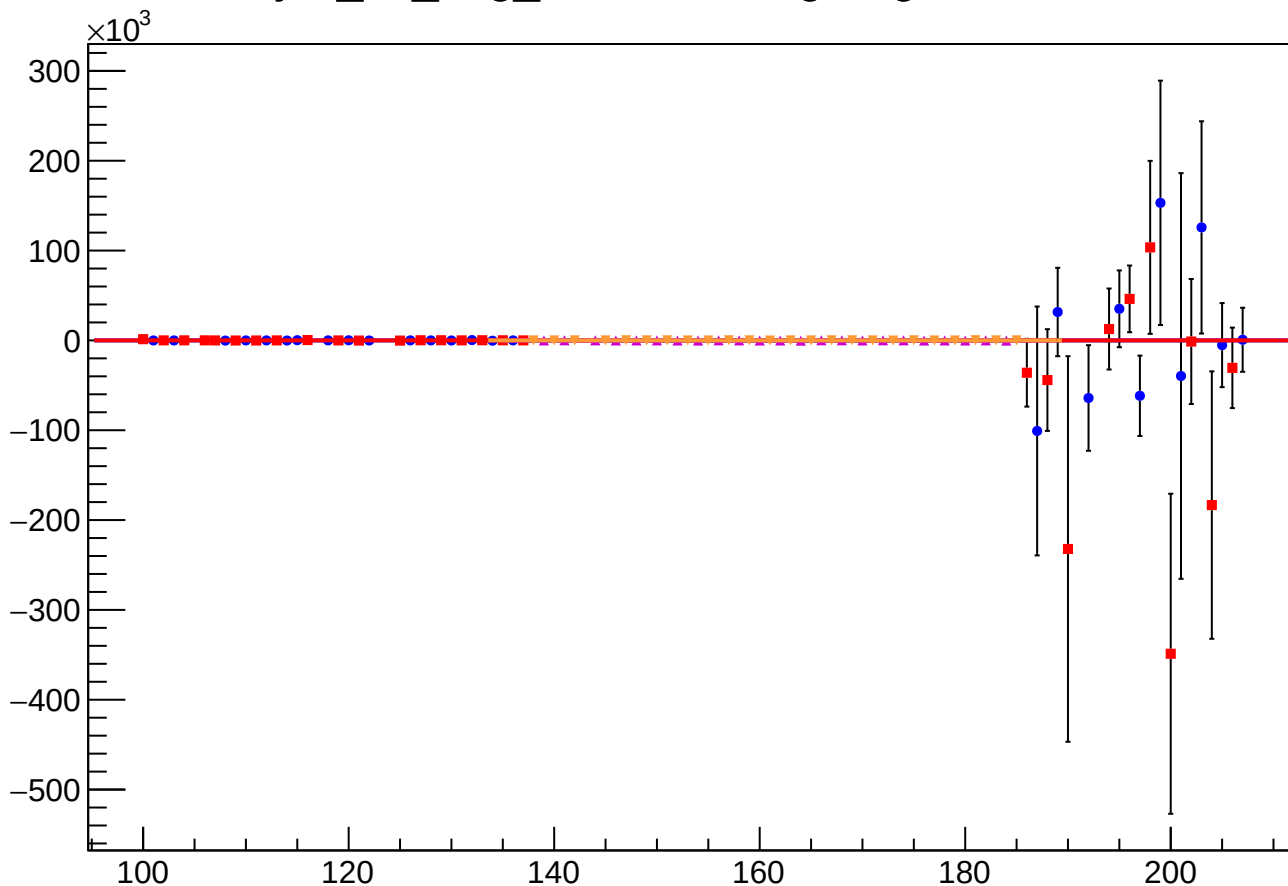
Right: 1.204+/-0.000 χ^2/NDF : 11505303.7/55

In: 1.341+/-0.000 χ^2/NDF : 6981167.4/49

Out: 1.358+/-0.000 χ^2/NDF : 7017600.1/52

All: 1.350+/-0.000 χ^2/NDF : 14001731.1/102

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.494 ± 30.040 χ^2/NDF : 23.4/25

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

Right Out: 32.007 ± 30.500 χ^2/NDF : 28.1/27

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

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

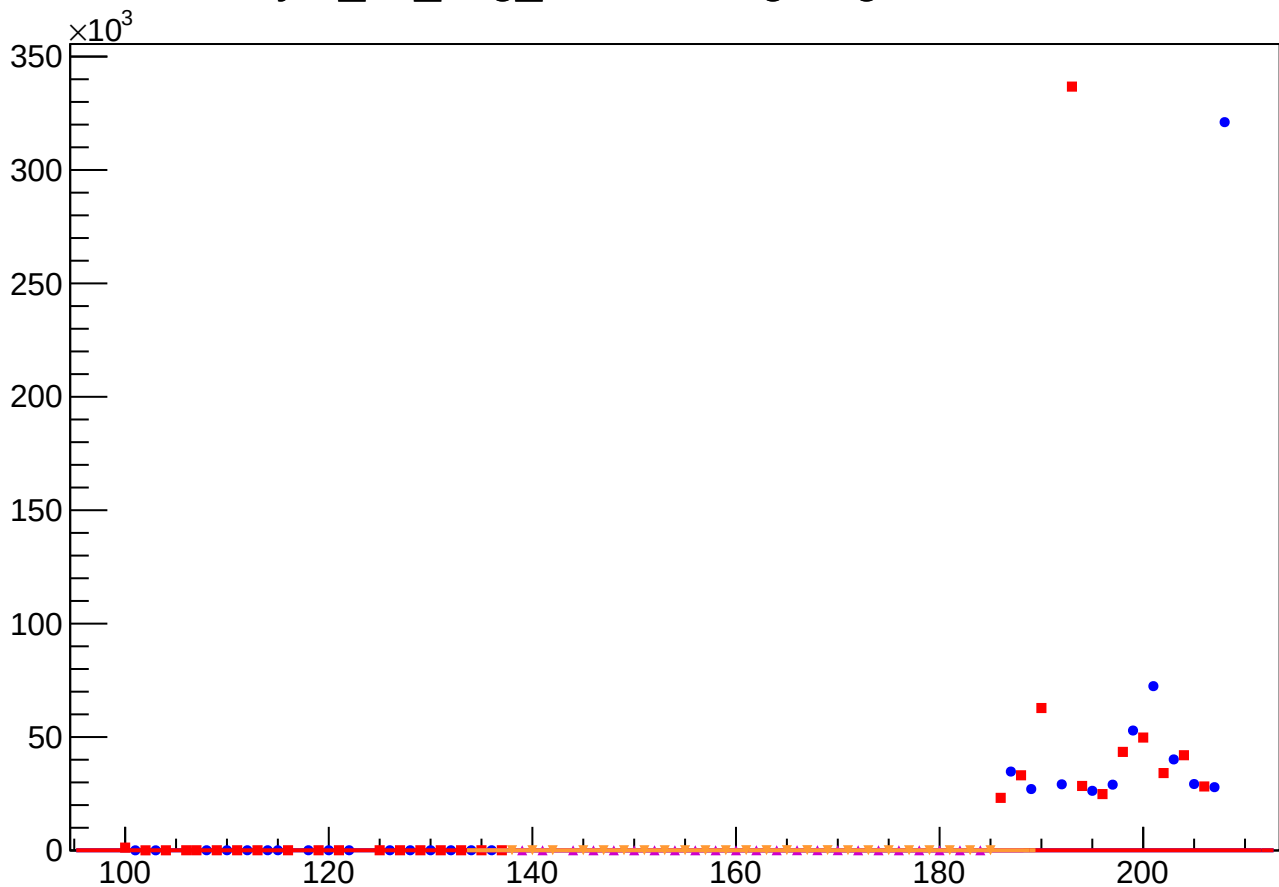
Right: 8.403 ± 21.402 χ^2/NDF : 52.6/53

In: -19.737 ± 17.532 χ^2/NDF : 45.8/48

Out: 12.946 ± 17.559 χ^2/NDF : 50.8/51

All: -3.420 ± 12.407 χ^2/NDF : 98.2/100

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.158+/-0.021 χ^2 /NDF: 6229157.5/26

Left Out: 89.719+/-0.015 χ^2 /NDF: 467023.5/23

Right Out: 79.458+/-0.022 χ^2 /NDF: 5801656.3/28

Left In: 89.622+/-0.015 χ^2 /NDF: 509391.8/22

Left: 89.671+/-0.011 χ^2 /NDF: 976435.5/46

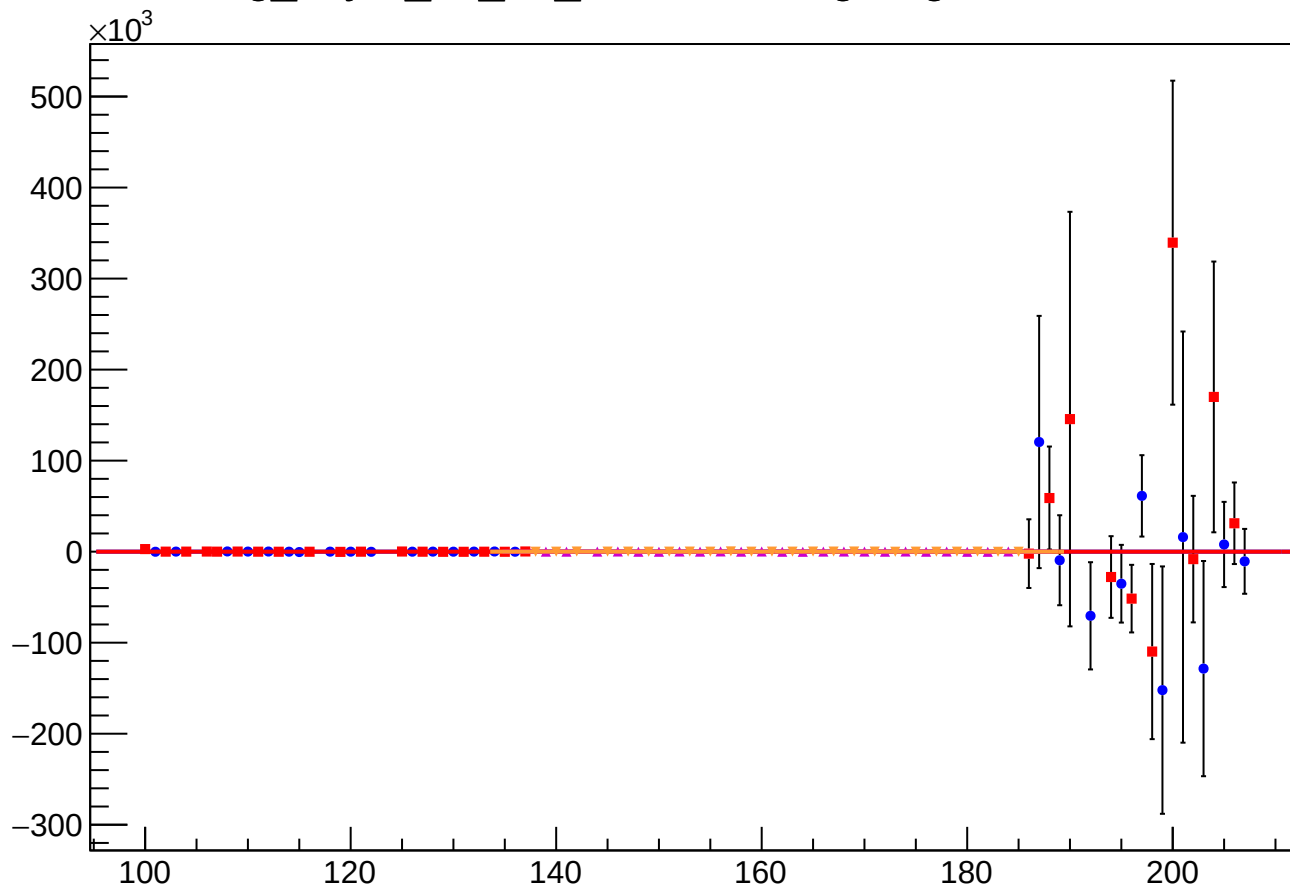
Right: 77.783+/-0.015 χ^2 /NDF: 12042698.6/55

In: 85.036+/-0.012 χ^2 /NDF: 7003458.4/49

Out: 86.318+/-0.012 χ^2 /NDF: 6420007.4/52

All: 85.676+/-0.009 χ^2 /NDF: 13428807.7/102

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.088 $\pm$ 30.012 χ^2 /NDF: 21.4/25

Left Out: 15.274 $\pm$ 21.472 χ^2 /NDF:17.2/23

Right Out: -25.785 $\pm$ 30.473 χ^2 /NDF: 23.3/27

Left In: 43.424 $\pm$ 21.593 χ^2 /NDF:31.4/22

Left: 29.270 $\pm$ 15.226 χ^2 /NDF: 49.5/46

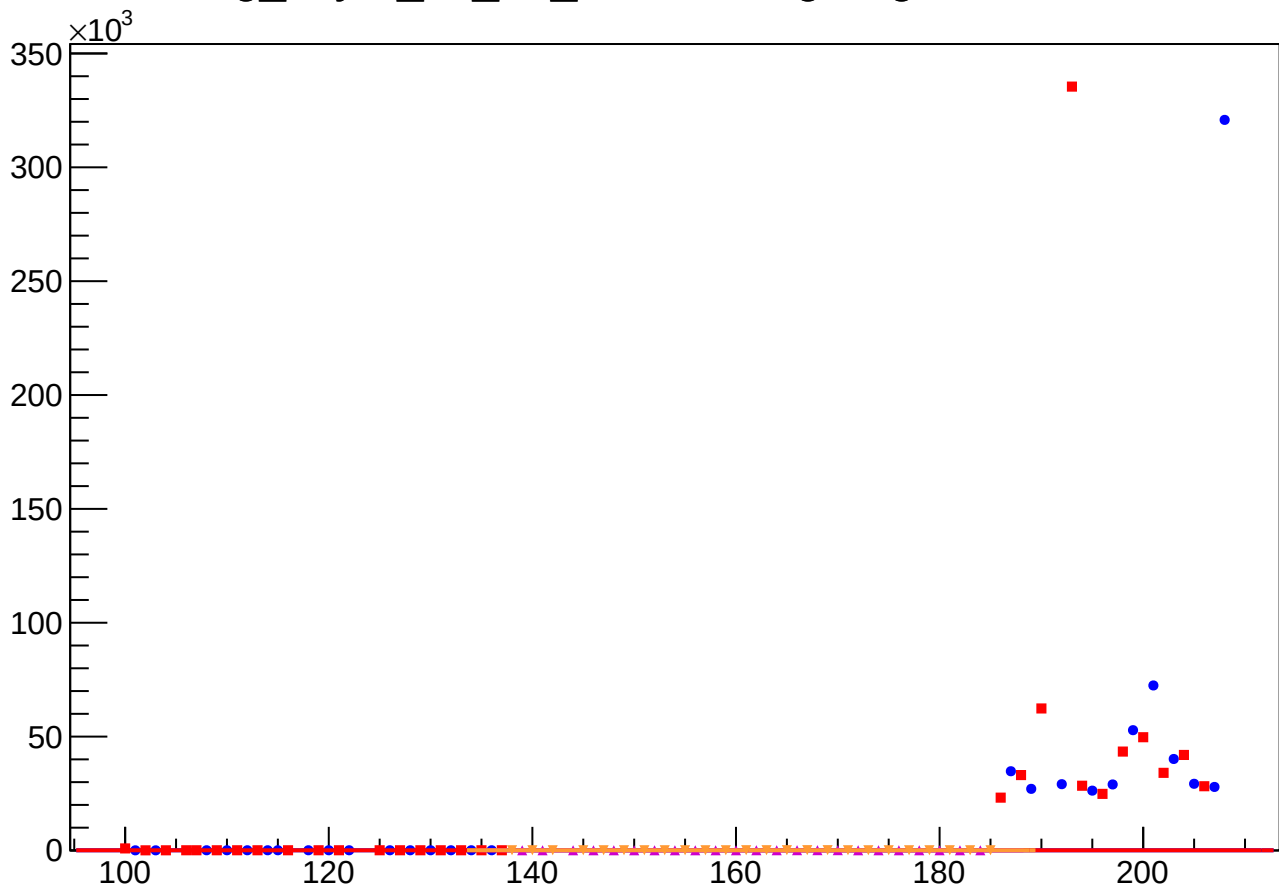
Right: -8.591 $\pm$ 21.383 χ^2 /NDF: 45.3/53

In: 31.371 $\pm$ 17.528 χ^2 /NDF:53.7/48

Out: 1.652 $\pm$ 17.552 χ^2 /NDF:41.7/51

All: 16.532 $\pm$ 12.403 χ^2 /NDF: 96.9/100

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.089 $\pm$ 0.021 χ^2 /NDF: 6228246.6/26

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

Right Out: 79.406 $\pm$ 0.022 χ^2 /NDF: 5794312.7/28

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

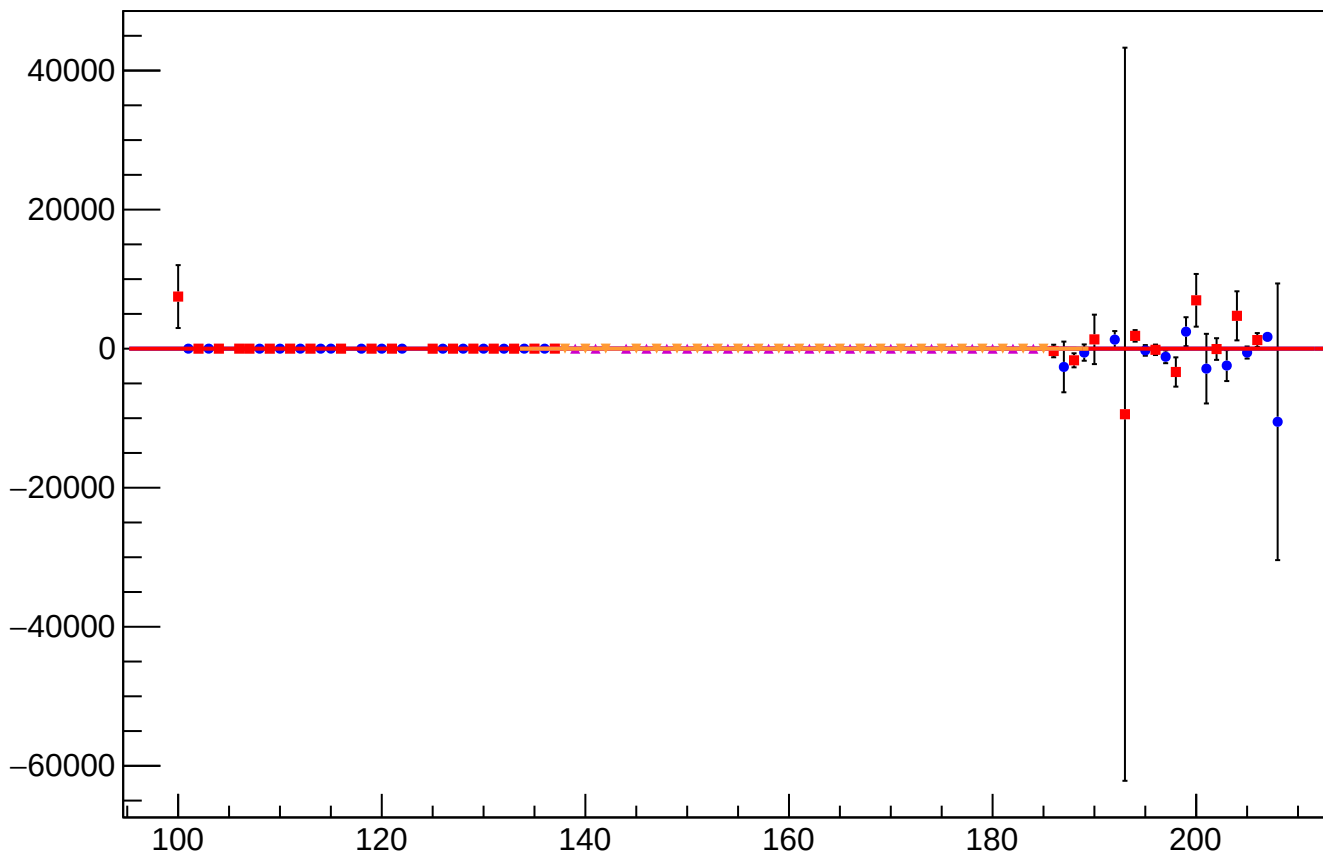
Right: 77.723 $\pm$ 0.015 χ^2 /NDF: 12034590.2/55

In: 85.010 $\pm$ 0.012 χ^2 /NDF: 7007453.8/49

Out: 86.293 $\pm$ 0.012 χ^2 /NDF: 6412261.1/52

All: 85.650 $\pm$ 0.009 χ^2 /NDF: 13425065.0/102

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 25.7/26

Left Out: -0.516 $\pm$ 0.391 χ^2 /NDF:20.7/23

Right Out: 0.348 $\pm$ 0.549 χ^2 /NDF: 30.7/28

Left In: -0.072 $\pm$ 0.390 χ^2 /NDF:20.4/22

Left: -0.293 $\pm$ 0.276 χ^2 /NDF: 41.7/46

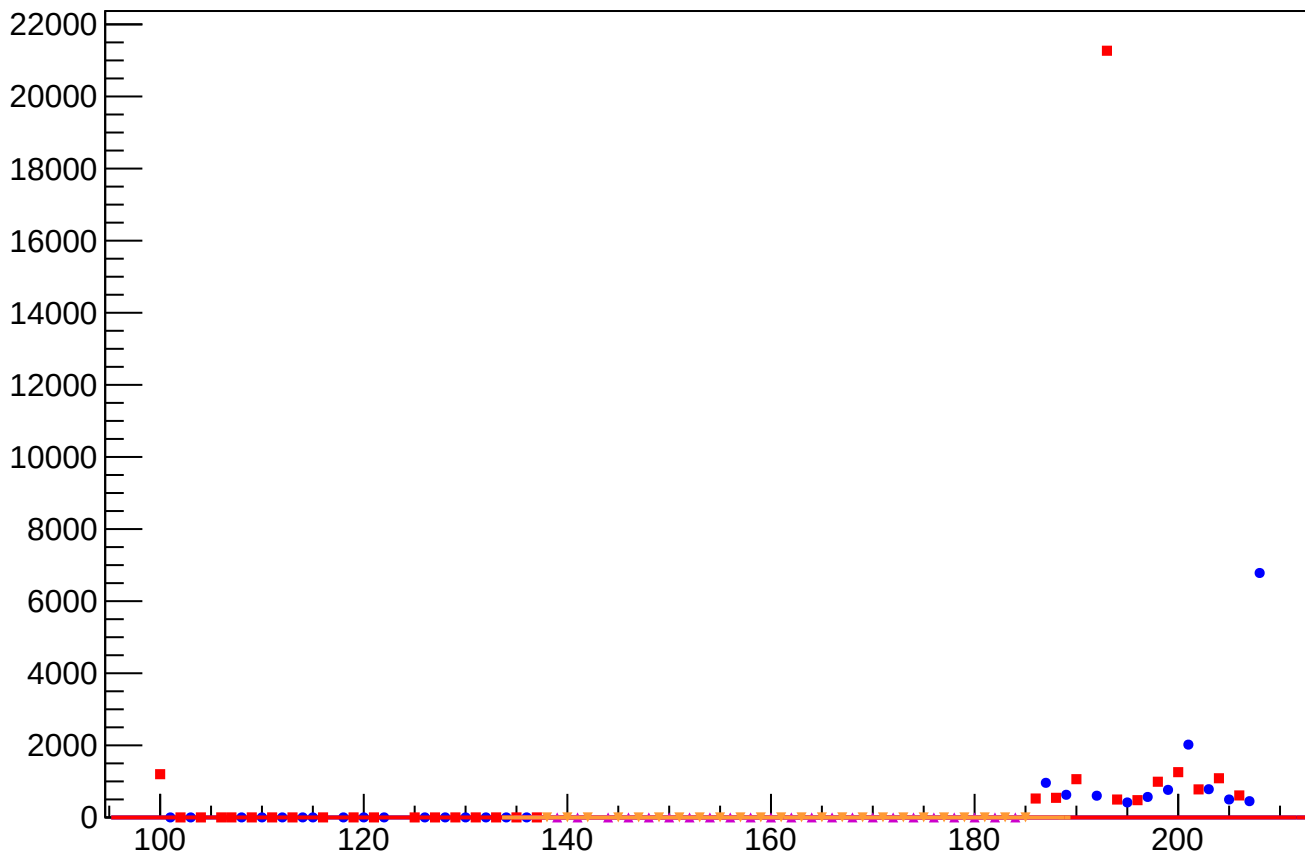
Right: 0.629 $\pm$ 0.382 χ^2 /NDF: 56.9/55

In: 0.266 $\pm$ 0.315 χ^2 /NDF:48.2/49

Out: -0.225 $\pm$ 0.318 χ^2 /NDF:53.0/52

All: 0.024 $\pm$ 0.224 χ^2 /NDF: 102.5/102

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 5825783.3/26

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

Right Out: 1.317+/-0.000 χ^2/NDF : 5888852.6/28

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

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

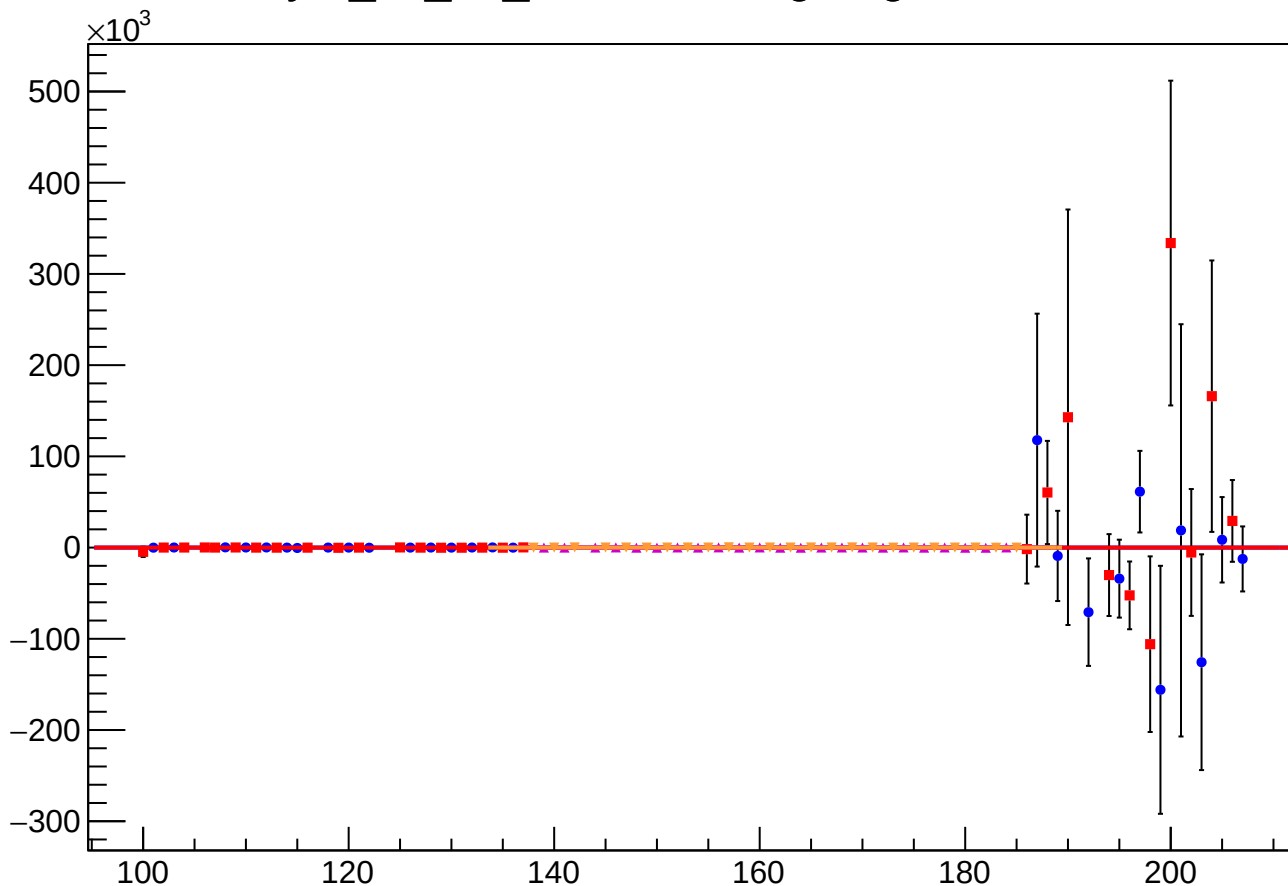
Right: 1.274+/-0.000 χ^2/NDF : 11737807.1/55

In: 1.382+/-0.000 χ^2/NDF : 7110865.0/49

Out: 1.418+/-0.000 χ^2/NDF : 7147807.1/52

All: 1.400+/-0.000 χ^2/NDF : 14272298.0/102

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.380 ± 30.020 χ^2/NDF : 21.2/25

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

Right Out: -26.395 ± 30.482 χ^2/NDF : 23.4/27

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

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

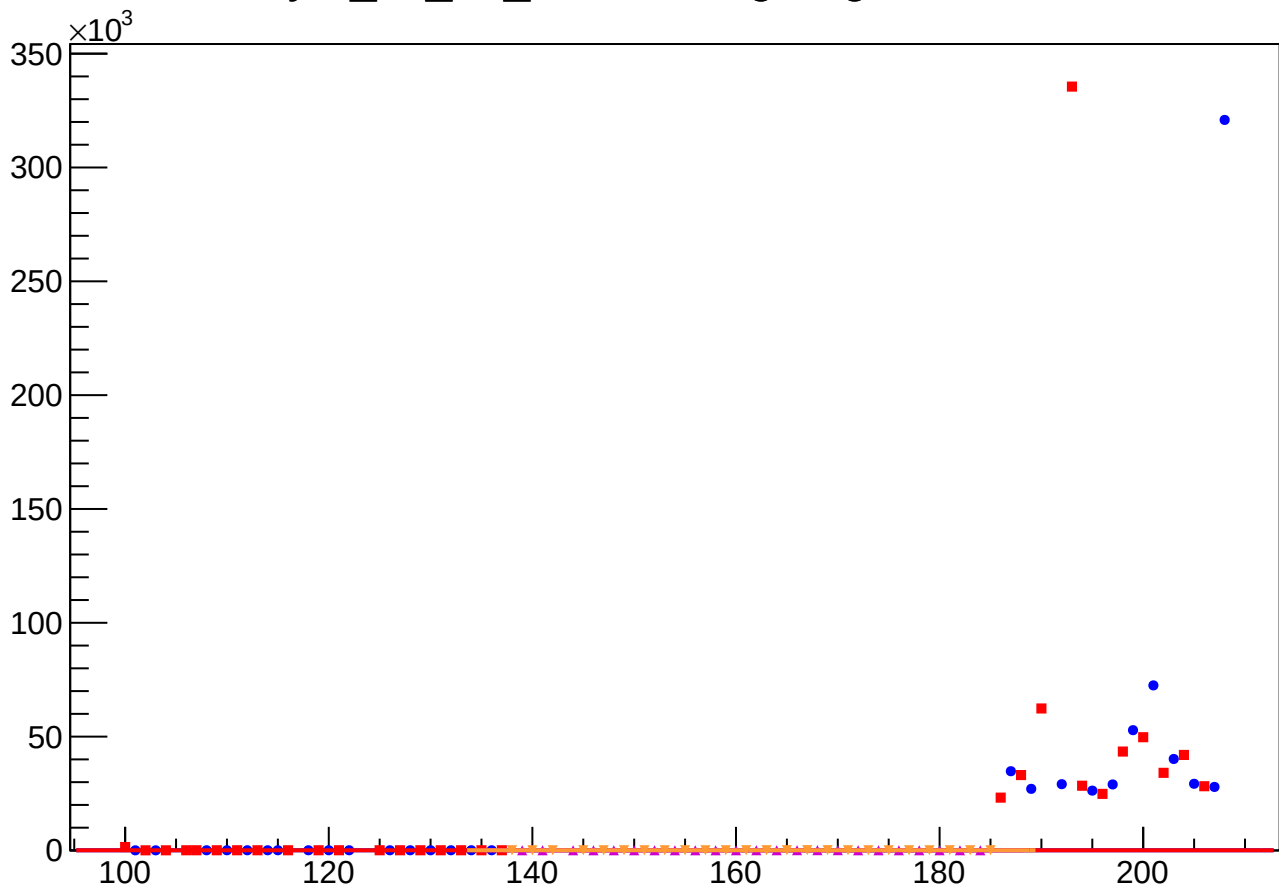
Right: -9.250 ± 21.389 χ^2/NDF : 45.2/53

In: 31.446 ± 17.533 χ^2/NDF : 53.3/48

Out: 1.780 ± 17.558 χ^2/NDF : 41.7/51

All: 16.634 ± 12.407 χ^2/NDF : 96.4/100

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.110 $\pm$ 0.021 χ^2 /NDF: 6228388.4/26

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

Right Out: 79.403 $\pm$ 0.022 χ^2 /NDF: 5803654.2/28

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

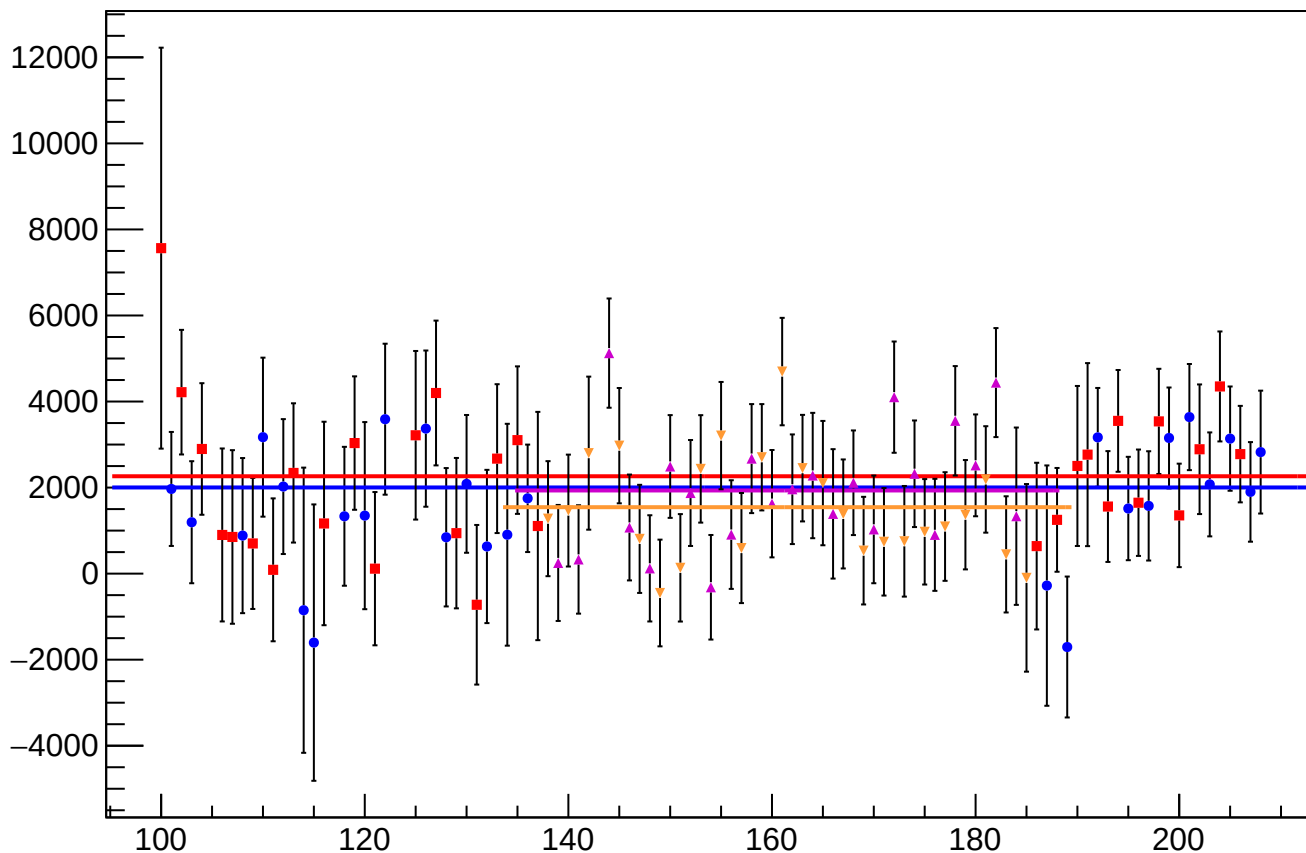
Right: 77.731 $\pm$ 0.015 χ^2 /NDF: 12043894.1/55

In: 85.034 $\pm$ 0.012 χ^2 /NDF: 7008497.9/49

Out: 86.310 $\pm$ 0.012 χ^2 /NDF: 6423174.5/52

All: 85.671 $\pm$ 0.009 χ^2 /NDF: 13436959.6/102

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2002.723+/-289.536 χ^2/NDF : 17.1/26

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

Right Out: 2263.177+/-286.038 χ^2/NDF : 22.1/29

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

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

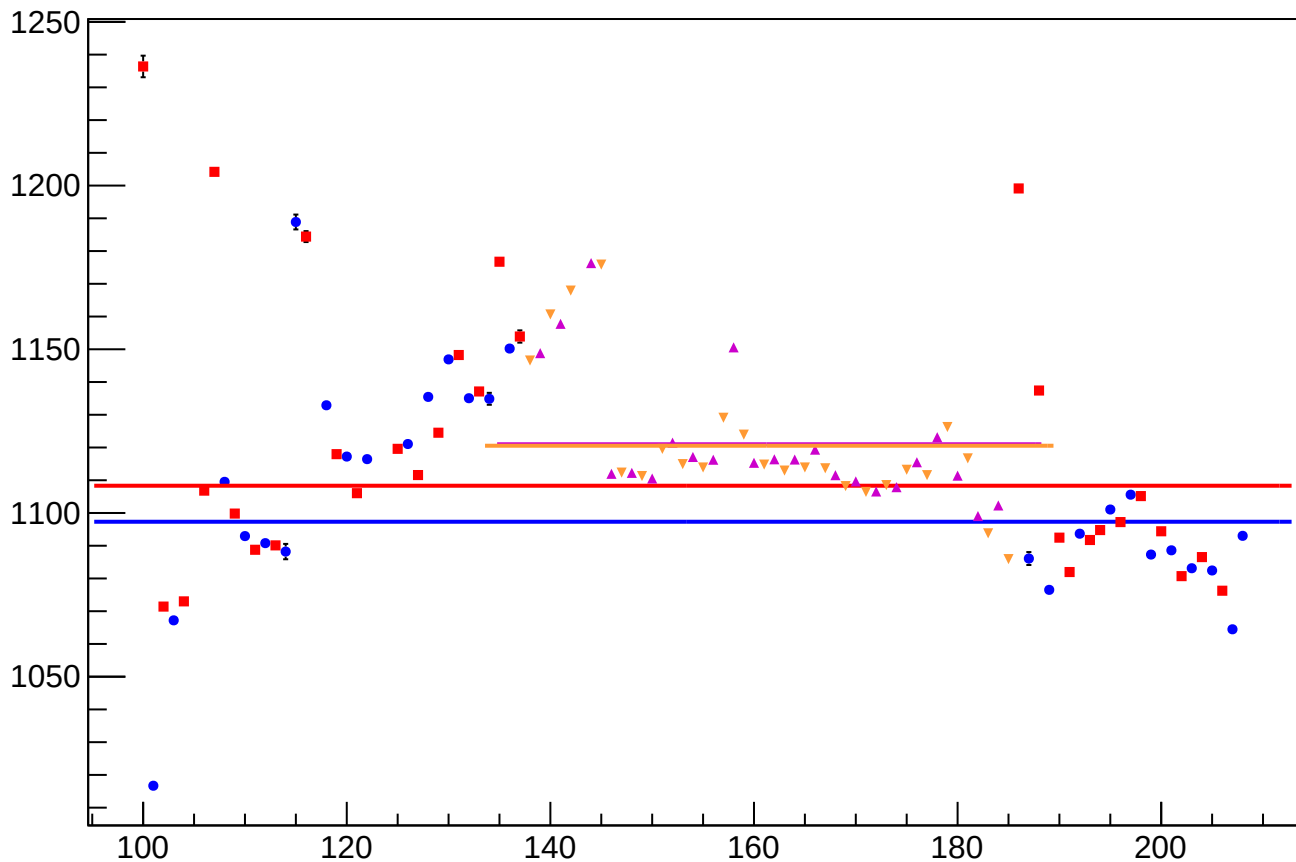
Right: 2134.533+/-203.485 χ^2/NDF : 39.6/56

In: 1965.173+/-196.680 χ^2/NDF : 44.2/49

Out: 1877.935+/-194.895 χ^2/NDF : 45.4/53

All: 1921.156+/-138.439 χ^2/NDF : 89.7/103

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1097.325 $\pm$ 0.205 χ^2 /NDF: 22689.3/26

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

Right Out: 1108.326 $\pm$ 0.202 χ^2 /NDF: 26574.8/29

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

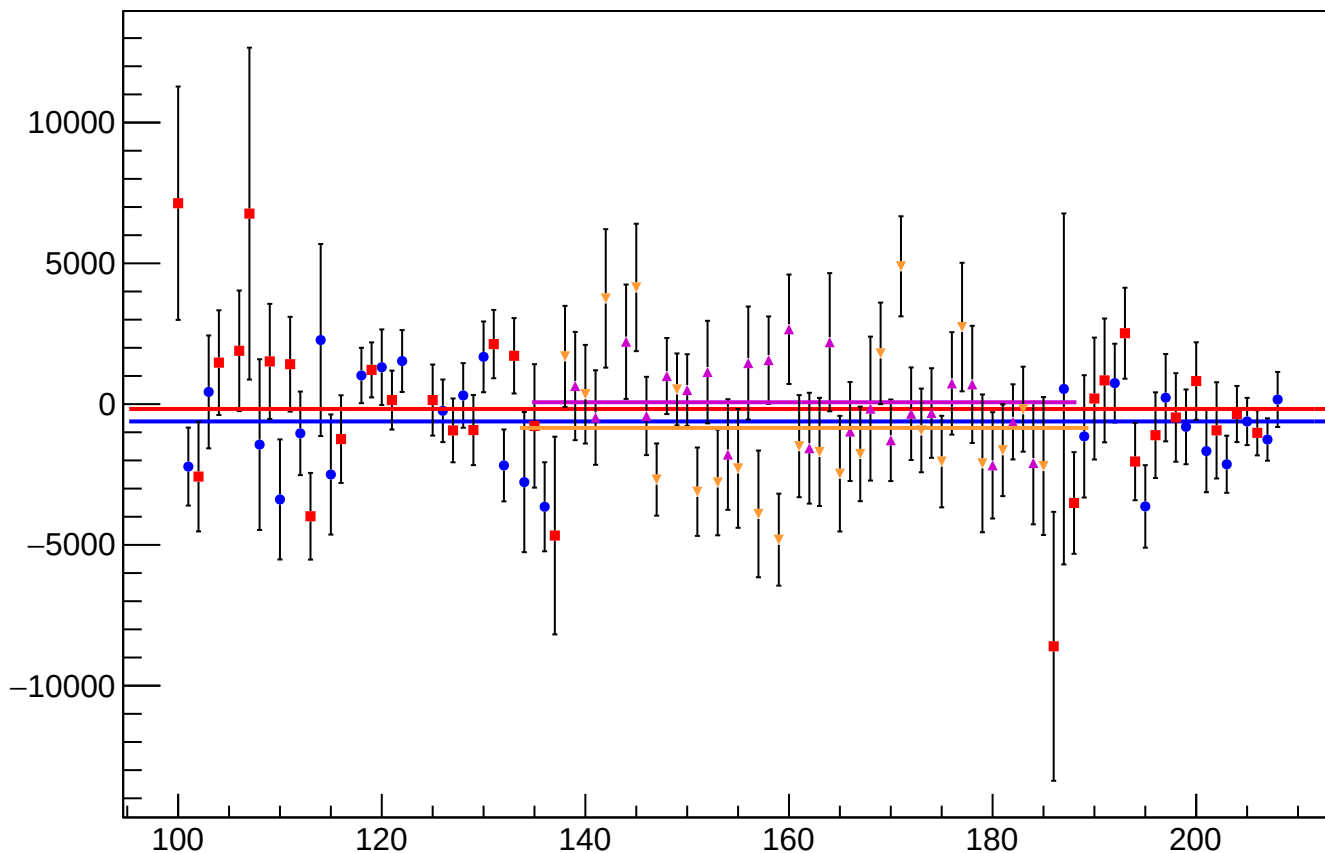
Right: 1102.892 $\pm$ 0.144 χ^2 /NDF: 50725.1/56

In: 1110.071 $\pm$ 0.139 χ^2 /NDF:39527.1/49

Out: 1114.871 $\pm$ 0.138 χ^2 /NDF:38782.2/53

All: 1112.493 $\pm$ 0.098 χ^2 /NDF: 78910.4/103

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -614.871+/-253.793 χ^2/NDF : 33.3/26

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

Right Out: -171.657+/-269.428 χ^2/NDF : 39.9/29

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

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

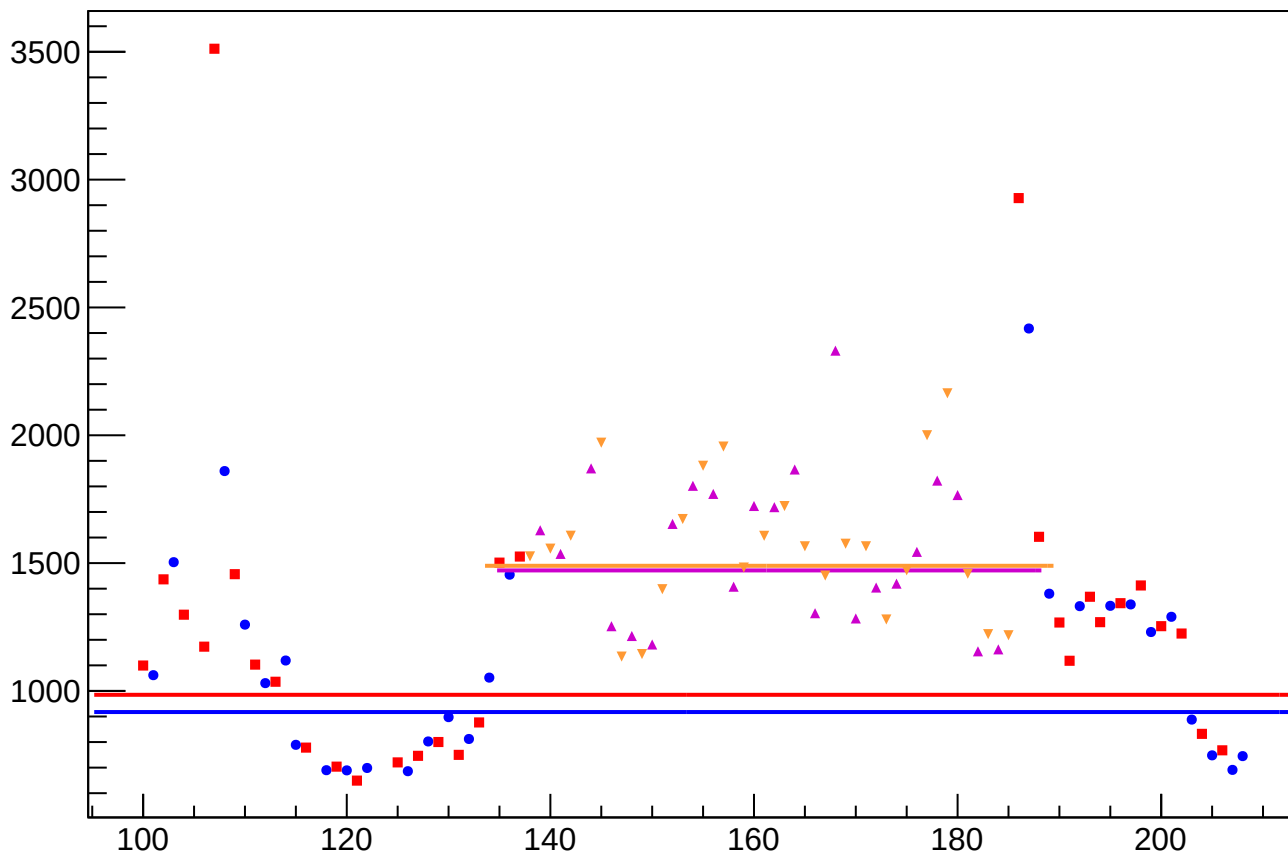
Right: -406.496+/-184.739 χ^2/NDF : 74.6/56

In: -387.890+/-207.196 χ^2/NDF :47.9/49

Out: -412.426+/-215.952 χ^2/NDF :85.3/53

All: -399.651+/-149.509 χ^2/NDF : 133.2/103

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 917.409+/-0.179 χ^2/NDF : 2322945.0/26

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

Right Out: 984.831+/-0.191 χ^2/NDF : 2914061.5/29

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

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

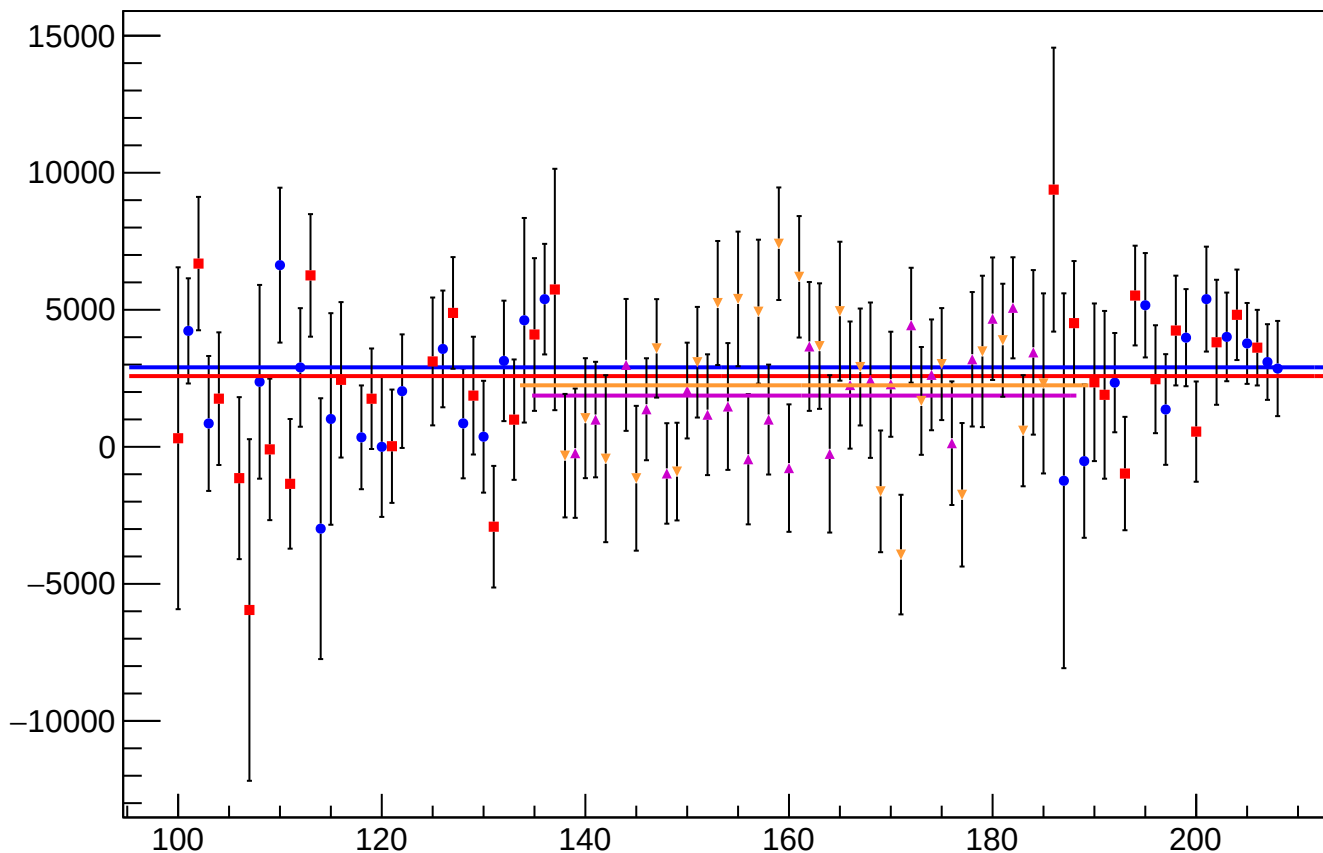
Right: 949.107+/-0.131 χ^2/NDF : 5303364.8/56

In: 1102.162+/-0.147 χ^2/NDF :6606279.9/49

Out: 1165.287+/-0.153 χ^2/NDF :6432457.7/53

All: 1132.419+/-0.106 χ^2/NDF : 13127718.9/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 2901.144 ± 403.898 $\chi^2/\text{NDF}: 19.3/26$

Left Out: 2244.415 ± 456.474 $\chi^2/\text{NDF}: 38.6/23$

Right Out: 2580.819 ± 414.905 $\chi^2/\text{NDF}: 36.4/29$

Left In: 1869.792 ± 455.465 $\chi^2/\text{NDF}: 14.9/22$

Left: 2056.689 ± 322.419 $\chi^2/\text{NDF}: 53.8/46$

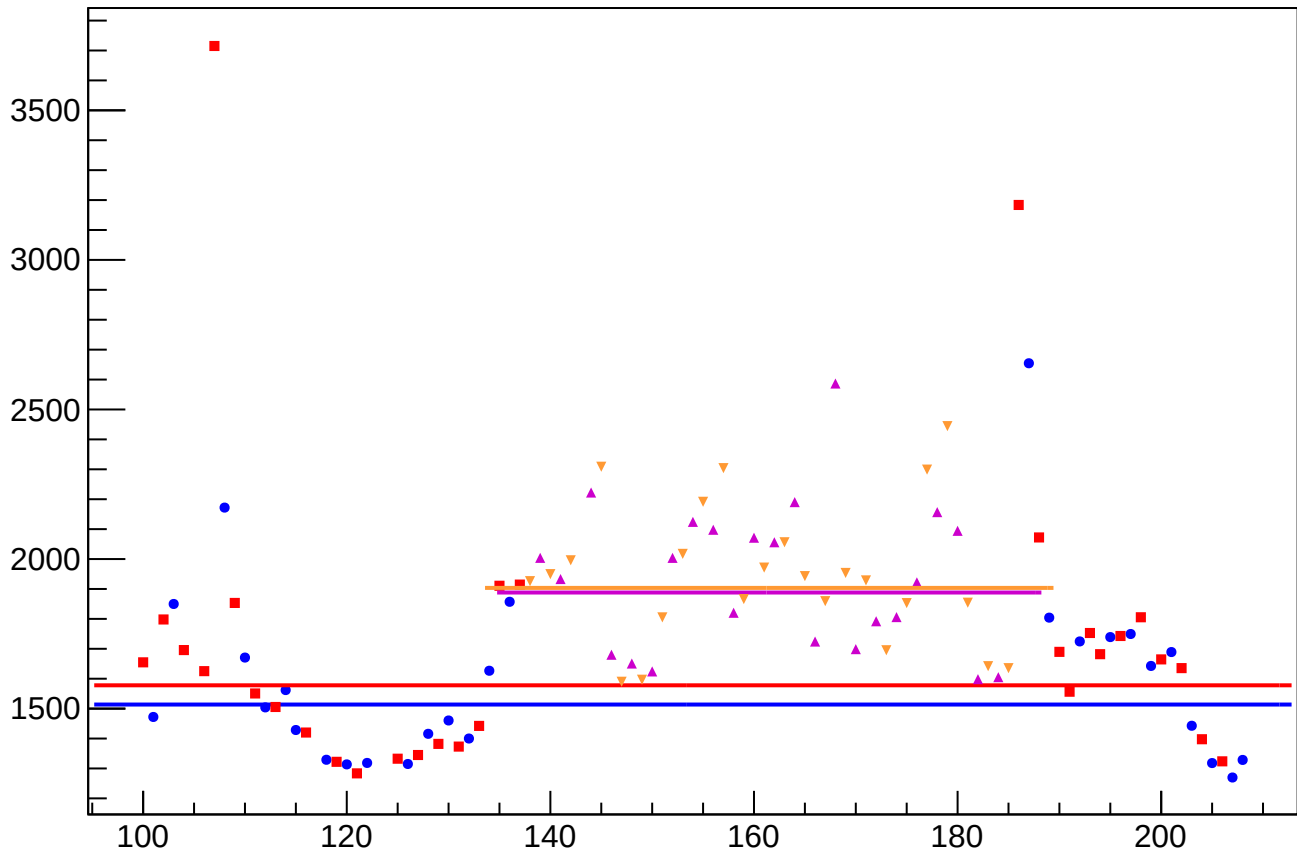
Right: 2745.287 ± 289.412 $\chi^2/\text{NDF}: 56.0/56$

In: 2447.134 ± 302.193 $\chi^2/\text{NDF}: 37.0/49$

Out: 2428.629 ± 307.029 $\chi^2/\text{NDF}: 75.3/53$

All: 2438.028 ± 215.372 $\chi^2/\text{NDF}: 112.3/103$

asym_usl_rms vs Slug, Sign Corrected



Right In: 1513.652 $\pm$ 0.286 χ^2/NDF : 563931.4/26

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

Right Out: 1577.951 $\pm$ 0.293 χ^2/NDF : 946340.8/29

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

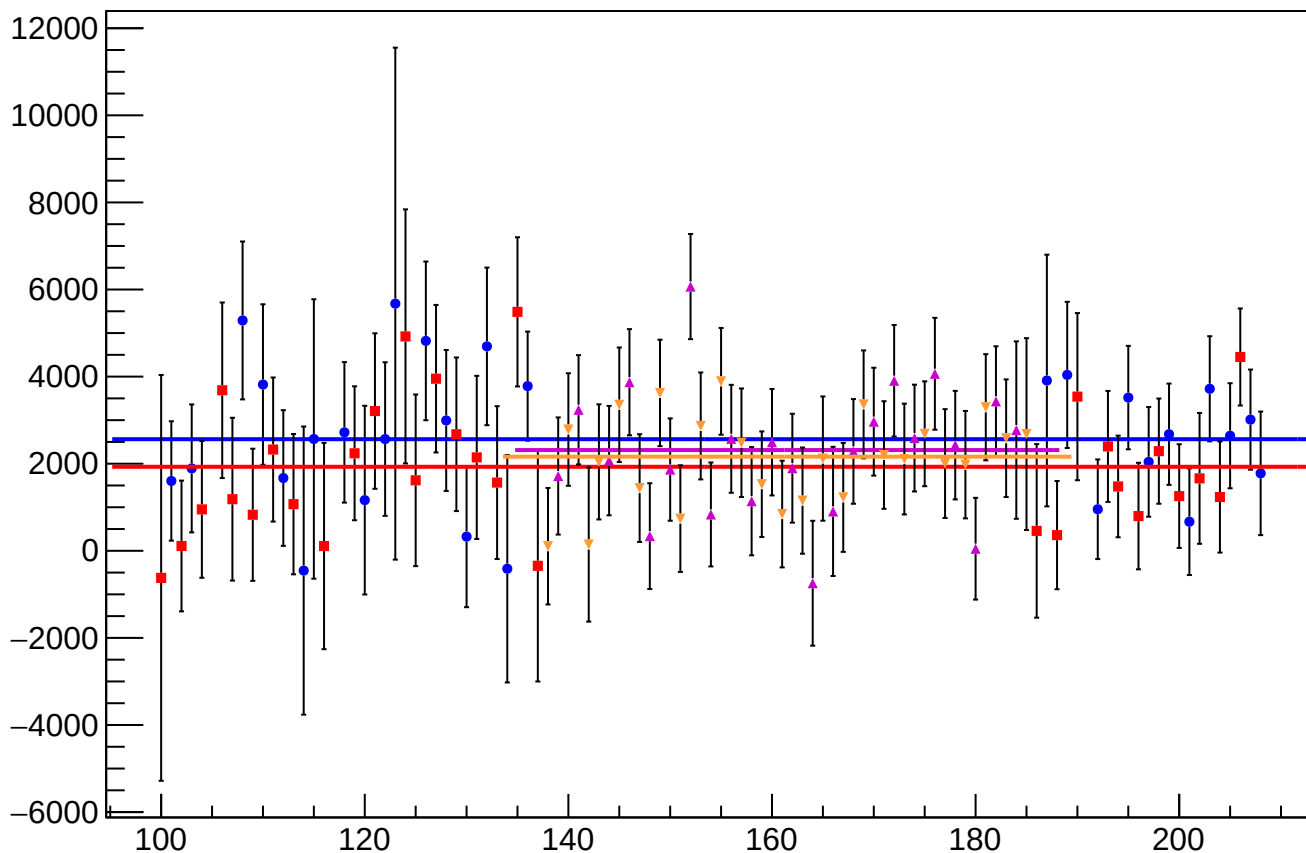
Right: 1544.937 $\pm$ 0.205 χ^2/NDF : 1534933.9/56

In: 1678.497 $\pm$ 0.214 χ^2/NDF : 1825293.9/49

Out: 1725.267 $\pm$ 0.217 χ^2/NDF : 1965451.8/53

All: 1701.511 $\pm$ 0.152 χ^2/NDF : 3814318.7/10

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2562.688 $\pm$ 289.785 χ^2 /NDF: 20.0/27

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

Right Out: 1929.635 $\pm$ 287.389 χ^2 /NDF: 22.7/29

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

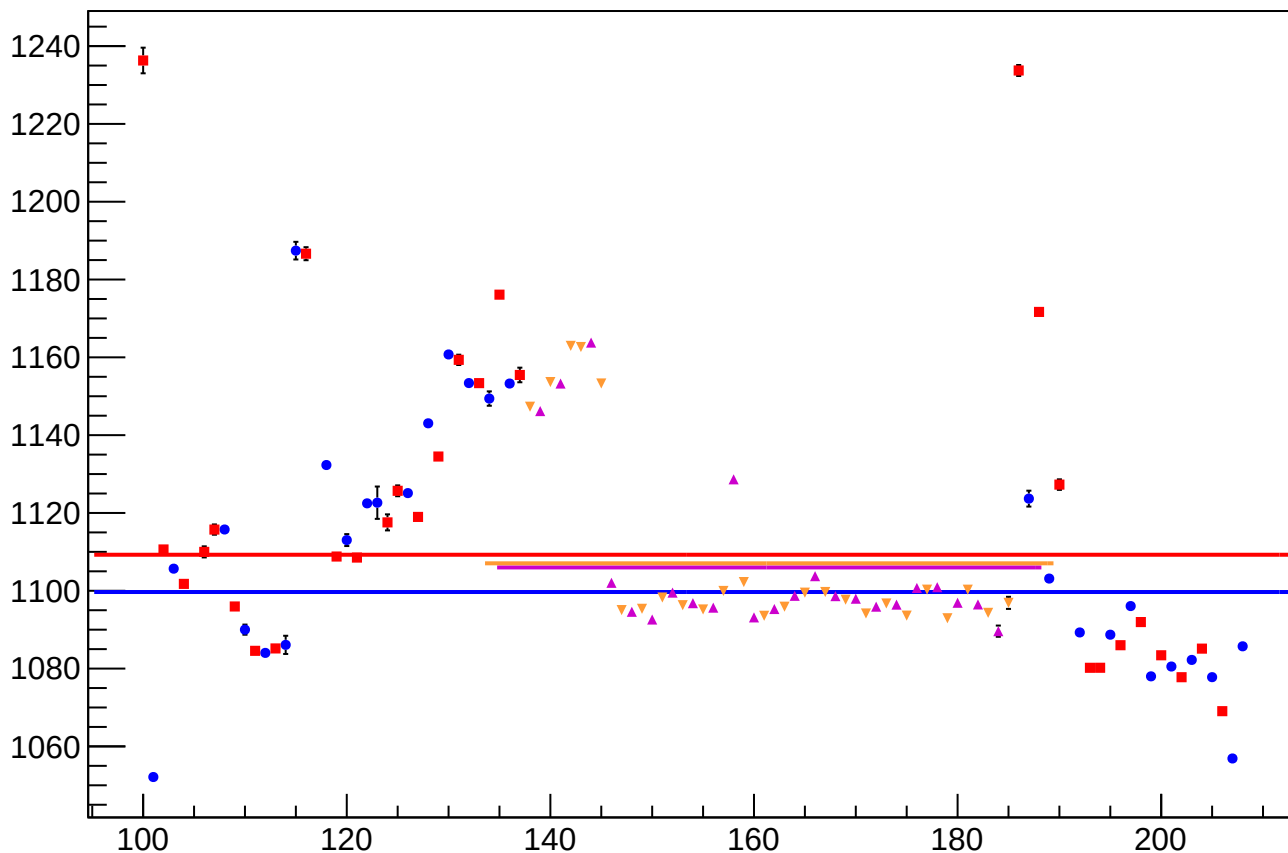
Right: 2243.533 $\pm$ 204.057 χ^2 /NDF: 45.1/57

In: 2426.720 $\pm$ 195.330 χ^2 /NDF:51.7/50

Out: 2058.200 $\pm$ 191.787 χ^2 /NDF:38.2/54

All: 2239.087 $\pm$ 136.849 χ^2 /NDF: 91.7/105

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1099.681 $\pm$ 0.205 χ^2 /NDF: 22181.1/27

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

Right Out: 1109.260 $\pm$ 0.203 χ^2 /NDF: 33287.6/29

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

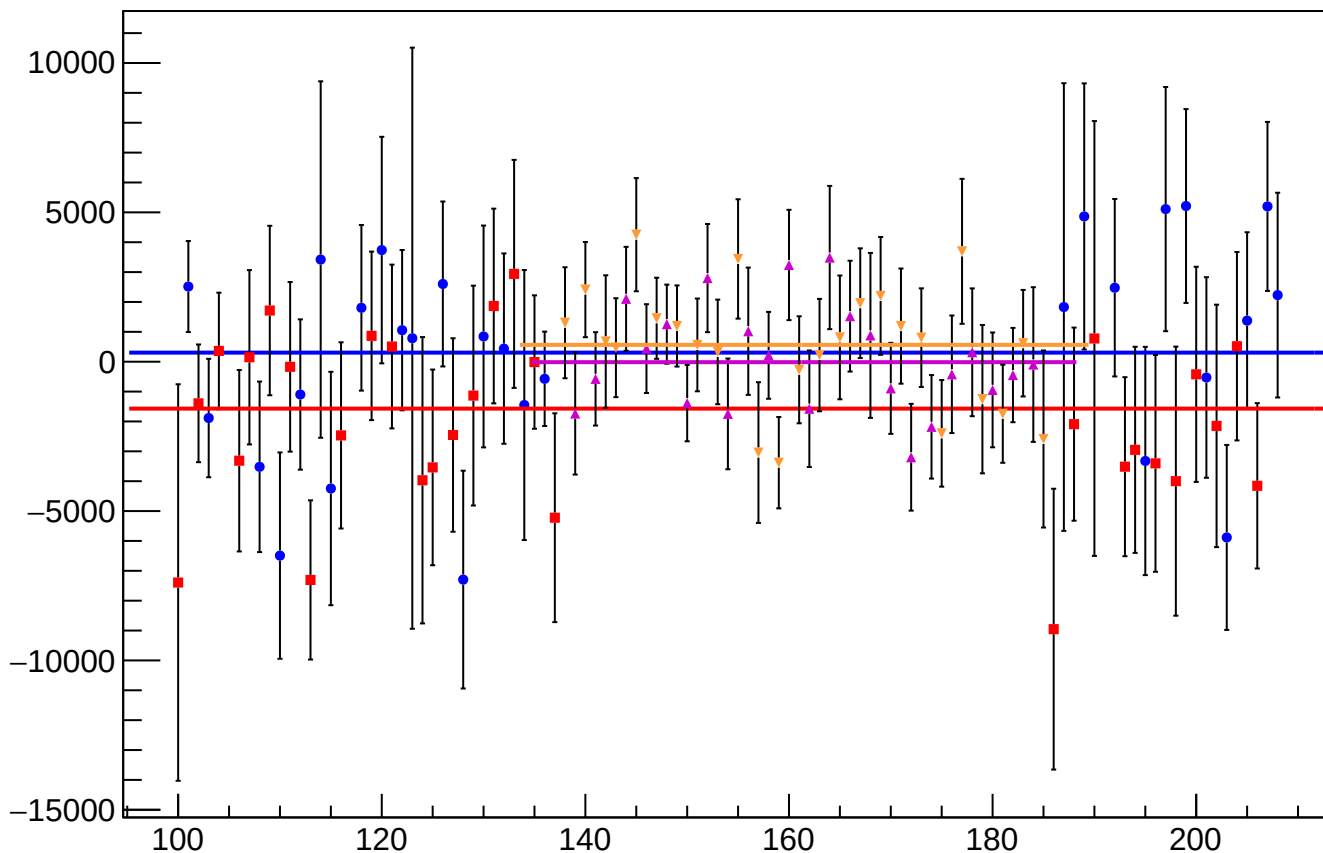
Right: 1104.510 $\pm$ 0.144 χ^2 /NDF: 56570.4/57

In: 1103.127 $\pm$ 0.138 χ^2 /NDF:34250.7/50

Out: 1108.038 $\pm$ 0.136 χ^2 /NDF:48528.4/54

All: 1105.628 $\pm$ 0.097 χ^2 /NDF: 83422.7/105

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 304.365 $\pm$ 555.421 χ^2 /NDF: 31.3/27

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

Right Out: -1570.004 $\pm$ 566.103 χ^2 /NDF: 20.0/29

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

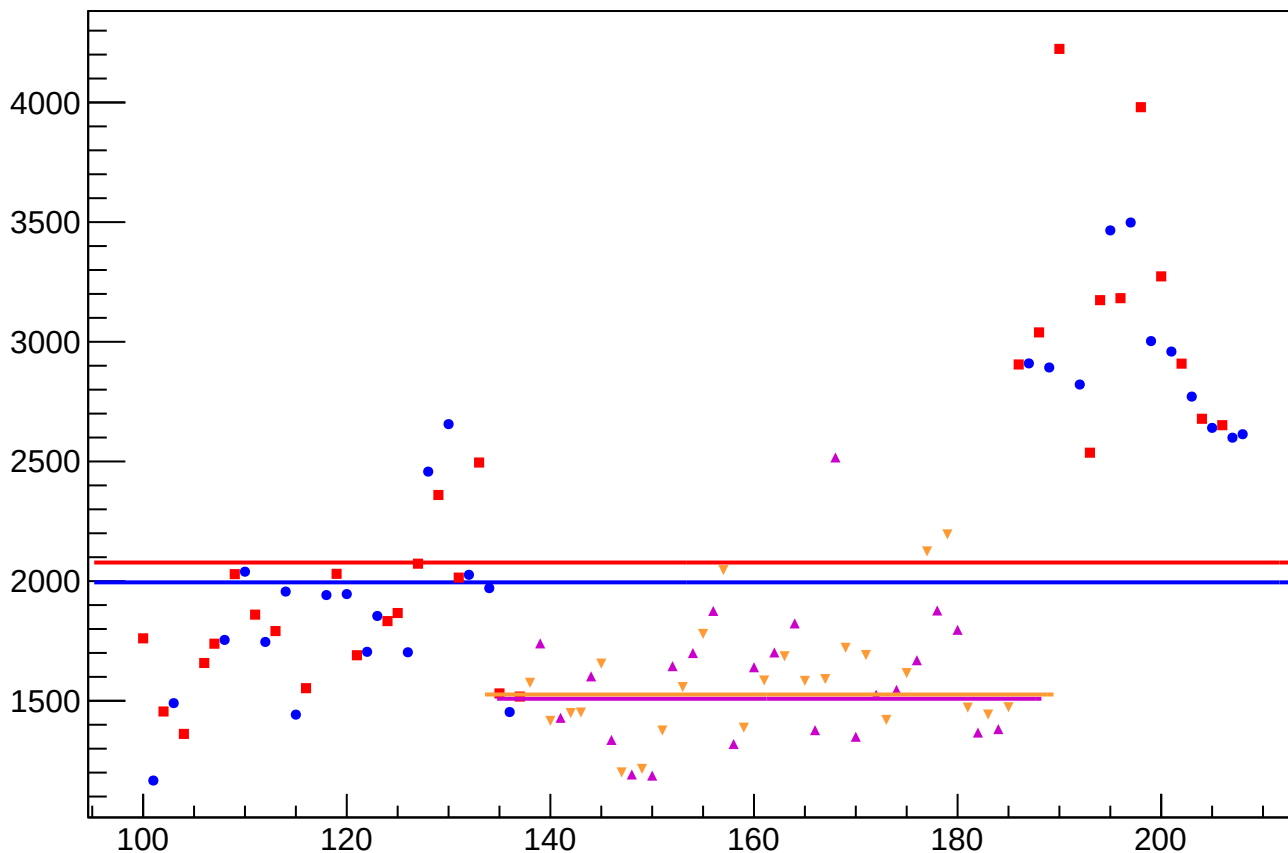
Right: -614.969 $\pm$ 396.465 χ^2 /NDF: 56.9/57

In: 81.644 $\pm$ 306.110 χ^2 /NDF:51.7/50

Out: -53.195 $\pm$ 304.319 χ^2 /NDF:56.9/54

All: 13.829 $\pm$ 215.817 χ^2 /NDF: 108.7/105

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1994.911+/-0.393

χ^2/NDF : 2741052.2/27

Left: 1517.632+/-0.182

χ^2/NDF : 1687794.7/47

Left Out: 1526.391+/-0.255

χ^2/NDF : 753714.4/24

Right: 2035.546+/-0.280

χ^2/NDF : 5322434.6/57

Right Out: 2077.759+/-0.400

χ^2/NDF : 2559556.8/29

In: 1656.302+/-0.216

χ^2/NDF : 4740352.2/50

Out: 1685.725+/-0.215

χ^2/NDF : 4662244.0/54

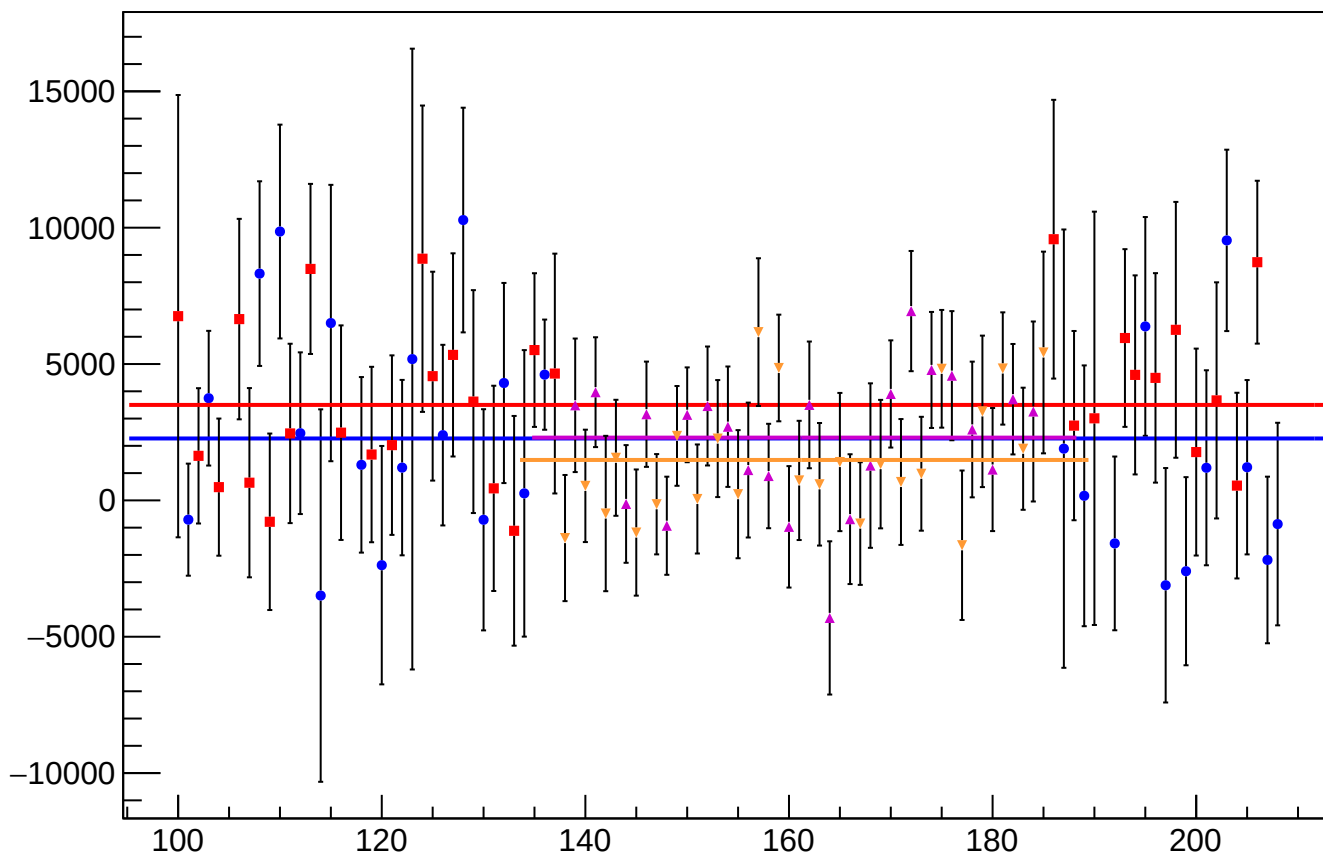
Left In: 1508.581+/-0.259

χ^2/NDF : 931684.8/22

All: 1671.100+/-0.153

χ^2/NDF : 9411889.7/10

asym_usr_mean vs Slug, Sign Corrected



Right In: 2270.249 $\pm$ 652.168 χ^2 /NDF: 32.4/27

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

Right Out: 3500.581 $\pm$ 657.078 χ^2 /NDF: 18.8/29

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

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

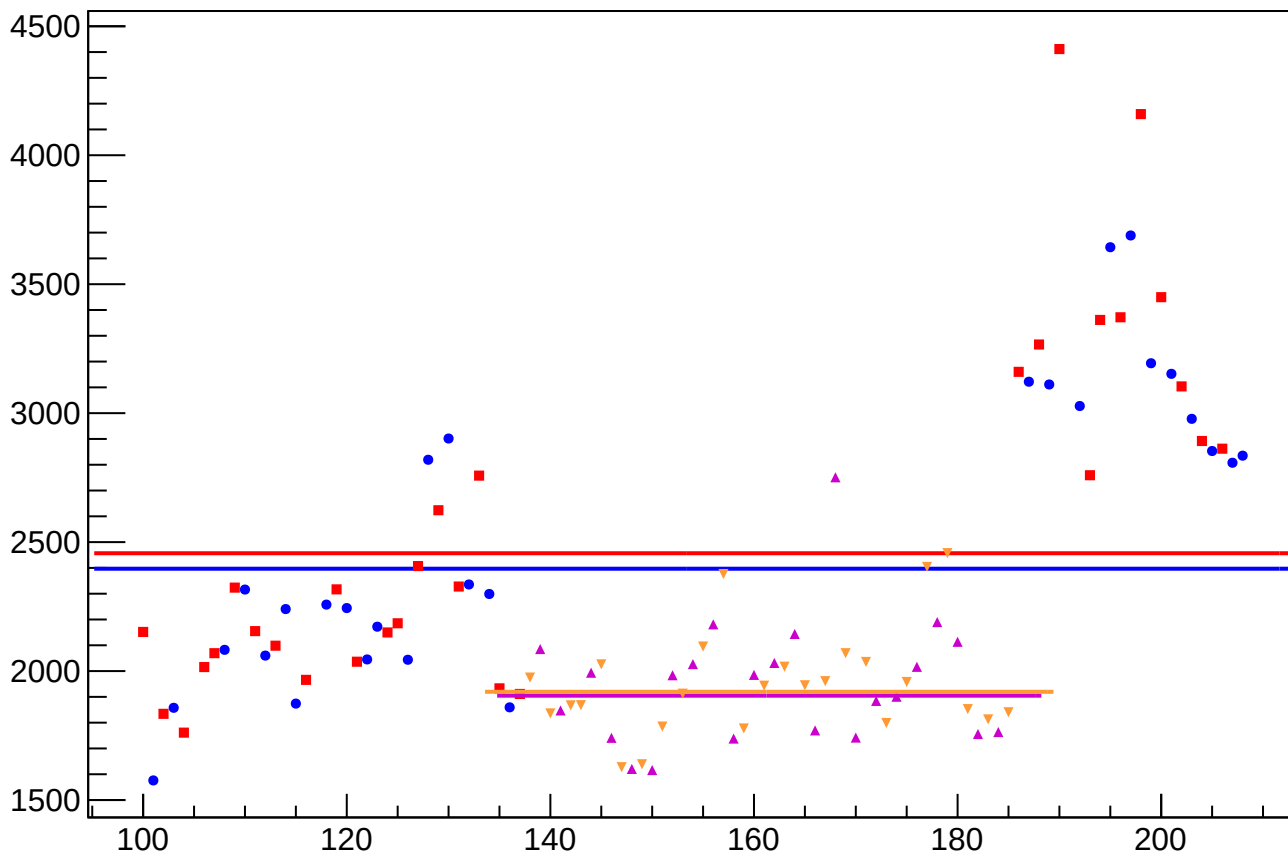
Right: 2880.801 $\pm$ 462.879 χ^2 /NDF: 53.0/57

In: 2290.978 $\pm$ 375.377 χ^2 /NDF: 57.2/50

Out: 2126.695 $\pm$ 371.268 χ^2 /NDF: 46.2/54

All: 2207.932 $\pm$ 263.967 χ^2 /NDF: 103.5/105

asym_usr_rms vs Slug, Sign Corrected



Right In: 2396.864 $\pm$ 0.461 χ^2 /NDF: 1604144.2/27

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

Right Out: 2456.882 $\pm$ 0.465 χ^2 /NDF: 1629876.6/29

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

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

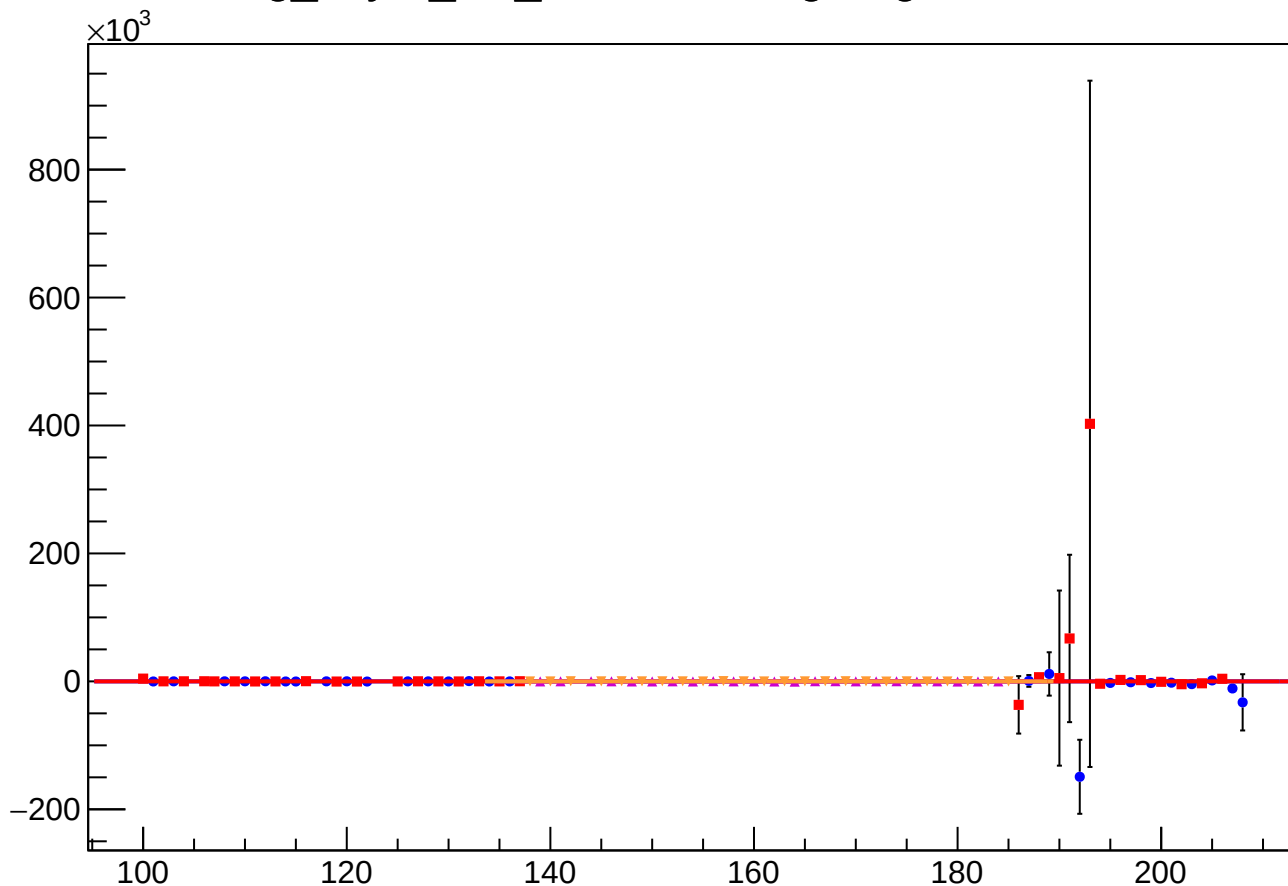
Right: 2426.648 $\pm$ 0.327 χ^2 /NDF: 3242426.6/57

In: 2067.704 $\pm$ 0.265 χ^2 /NDF: 2813380.6/50

Out: 2091.221 $\pm$ 0.263 χ^2 /NDF: 2905946.4/54

All: 2079.592 $\pm$ 0.187 χ^2 /NDF: 5723295.1/100

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.378 ± 36.762 χ^2/NDF : 32.0/26

Left Out: 12.260 ± 26.260 χ^2/NDF : 35.9/23

Right Out: 1.830 ± 36.747 χ^2/NDF : 19.5/29

Left In: 24.786 ± 26.343 χ^2/NDF : 36.4/22

Left: 18.503 ± 18.598 χ^2/NDF : 72.4/46

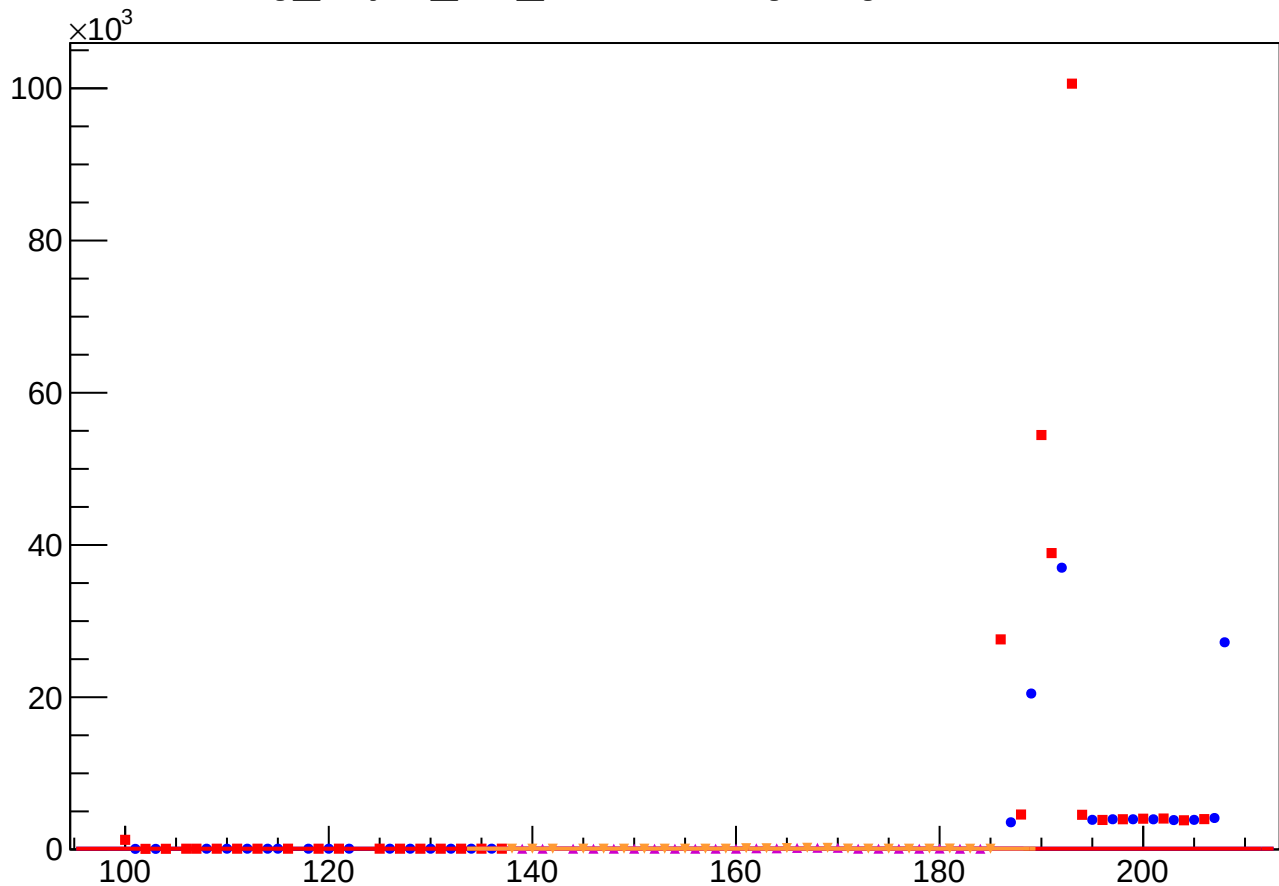
Right: -0.273 ± 25.989 χ^2/NDF : 51.5/56

In: 15.570 ± 21.413 χ^2/NDF : 68.8/49

Out: 8.734 ± 21.365 χ^2/NDF : 55.4/53

All: 12.144 ± 15.124 χ^2/NDF : 124.2/103

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.054 $\pm$ 0.026 χ^2 /NDF: 13557962.3/26

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

Right Out: 98.228 $\pm$ 0.026 χ^2 /NDF: 12431916.1/29

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

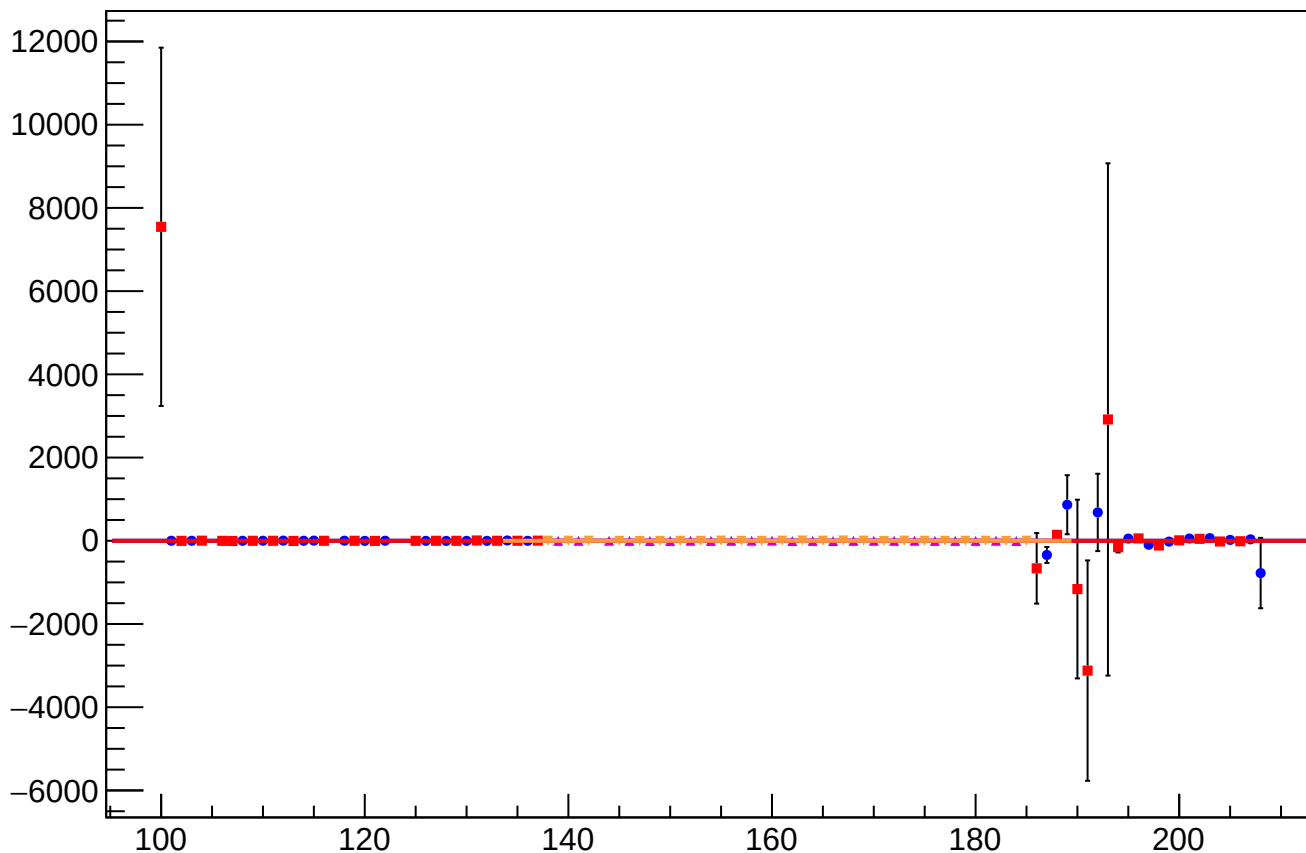
Right: 97.141 $\pm$ 0.018 χ^2 /NDF: 25993375.6/56

In: 103.730 $\pm$ 0.015 χ^2 /NDF: 15180988.4/49

Out: 104.736 $\pm$ 0.015 χ^2 /NDF: 13961669.2/53

All: 104.234 $\pm$ 0.011 χ^2 /NDF: 29144867.2/100

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 $\pm$ 0.617 χ^2 /NDF: 20.3/26

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

Right Out: -0.347 $\pm$ 0.644 χ^2 /NDF: 29.7/29

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

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

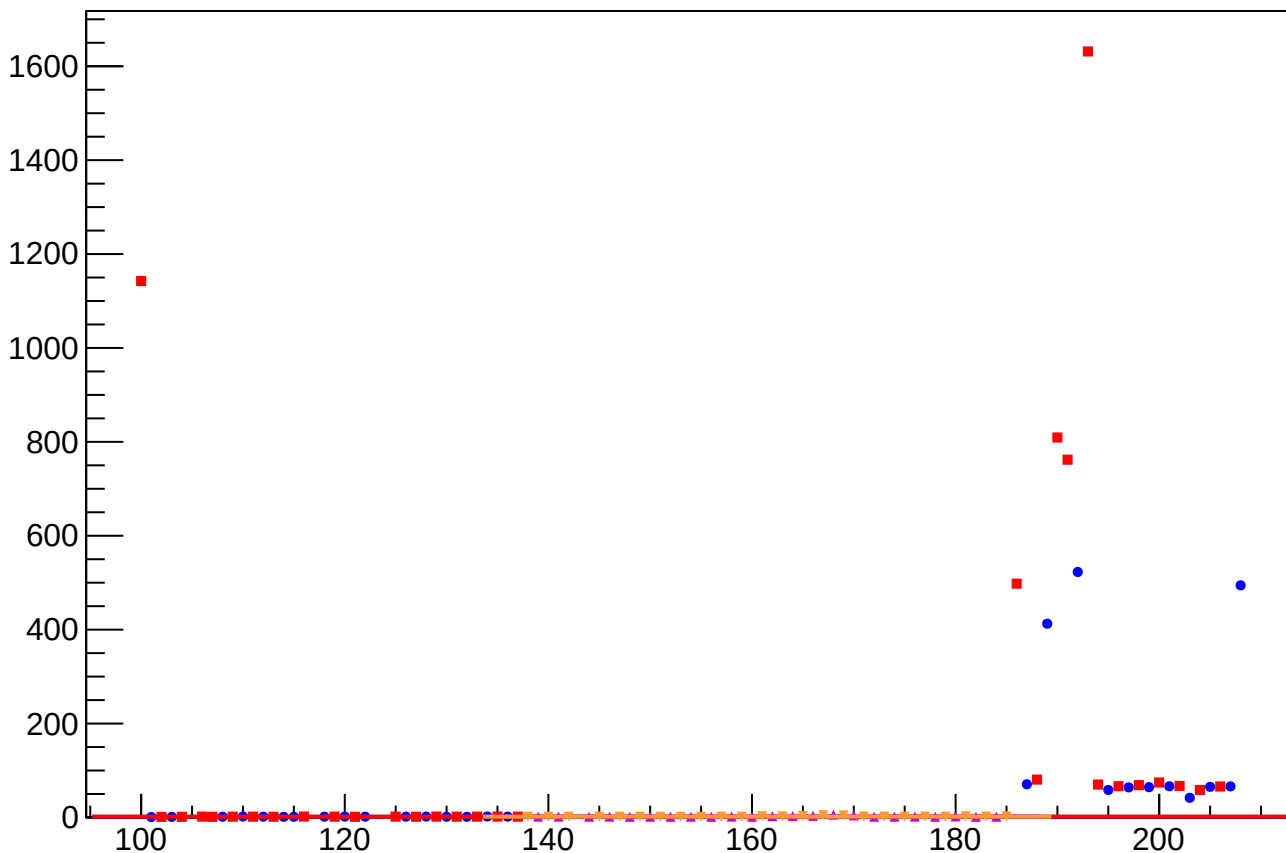
Right: 0.041 $\pm$ 0.445 χ^2 /NDF: 50.6/56

In: 0.110 $\pm$ 0.381 χ^2 /NDF:45.6/49

Out: -0.468 $\pm$ 0.382 χ^2 /NDF:60.3/53

All: -0.178 $\pm$ 0.270 χ^2 /NDF: 107.0/103

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.450+/-0.000 χ^2/NDF : 11767821.5/26

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

Right Out: 1.584+/-0.000 χ^2/NDF : 10943010.6/29

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

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

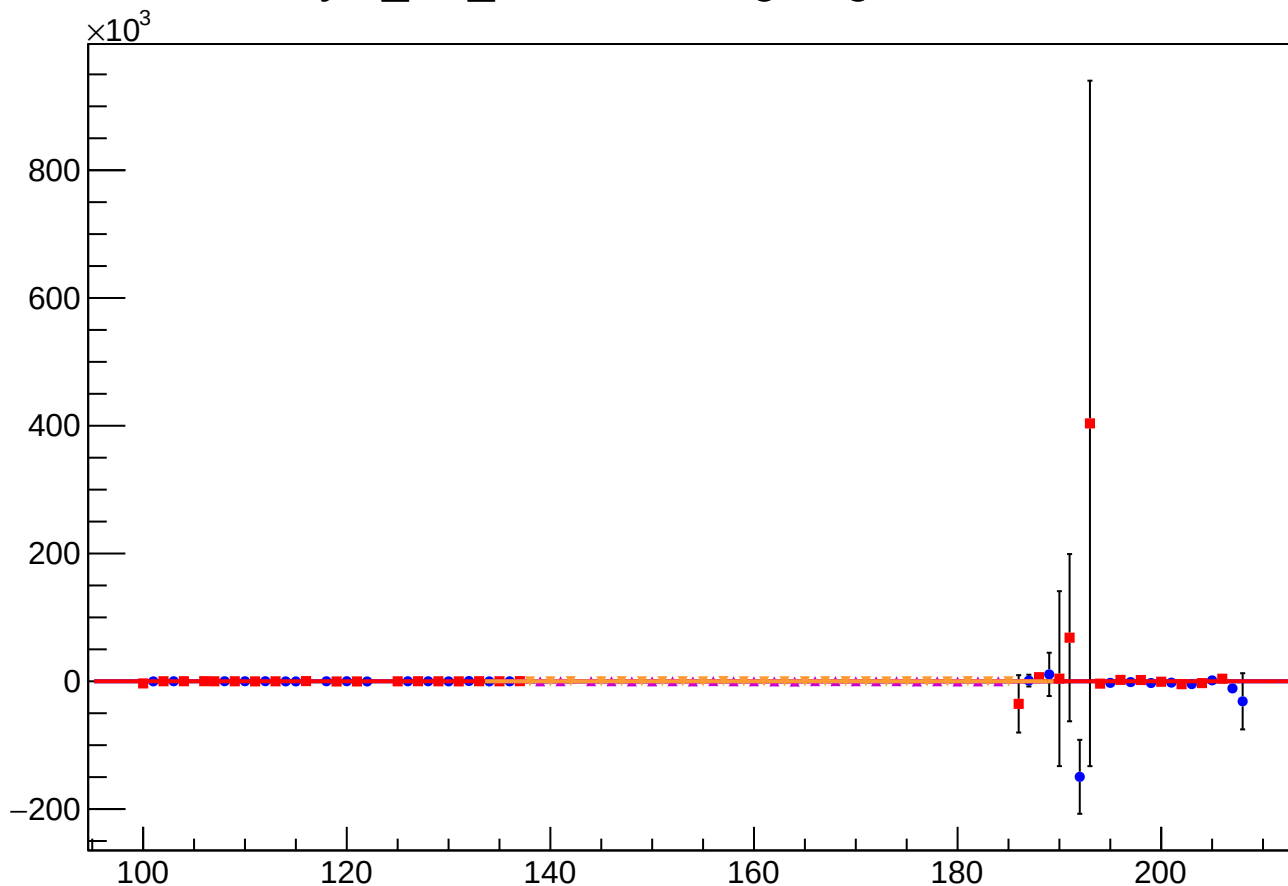
Right: 1.514+/-0.000 χ^2/NDF : 22756272.2/56

In: 1.668+/-0.000 χ^2/NDF : 14093062.3/49

Out: 1.705+/-0.000 χ^2/NDF : 12651977.4/53

All: 1.687+/-0.000 χ^2/NDF : 26754641.2/103

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.091 ± 36.771 $\chi^2/\text{NDF}: 32.3/26$

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

Right Out: 1.595 ± 36.757 $\chi^2/\text{NDF}: 18.9/29$

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

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

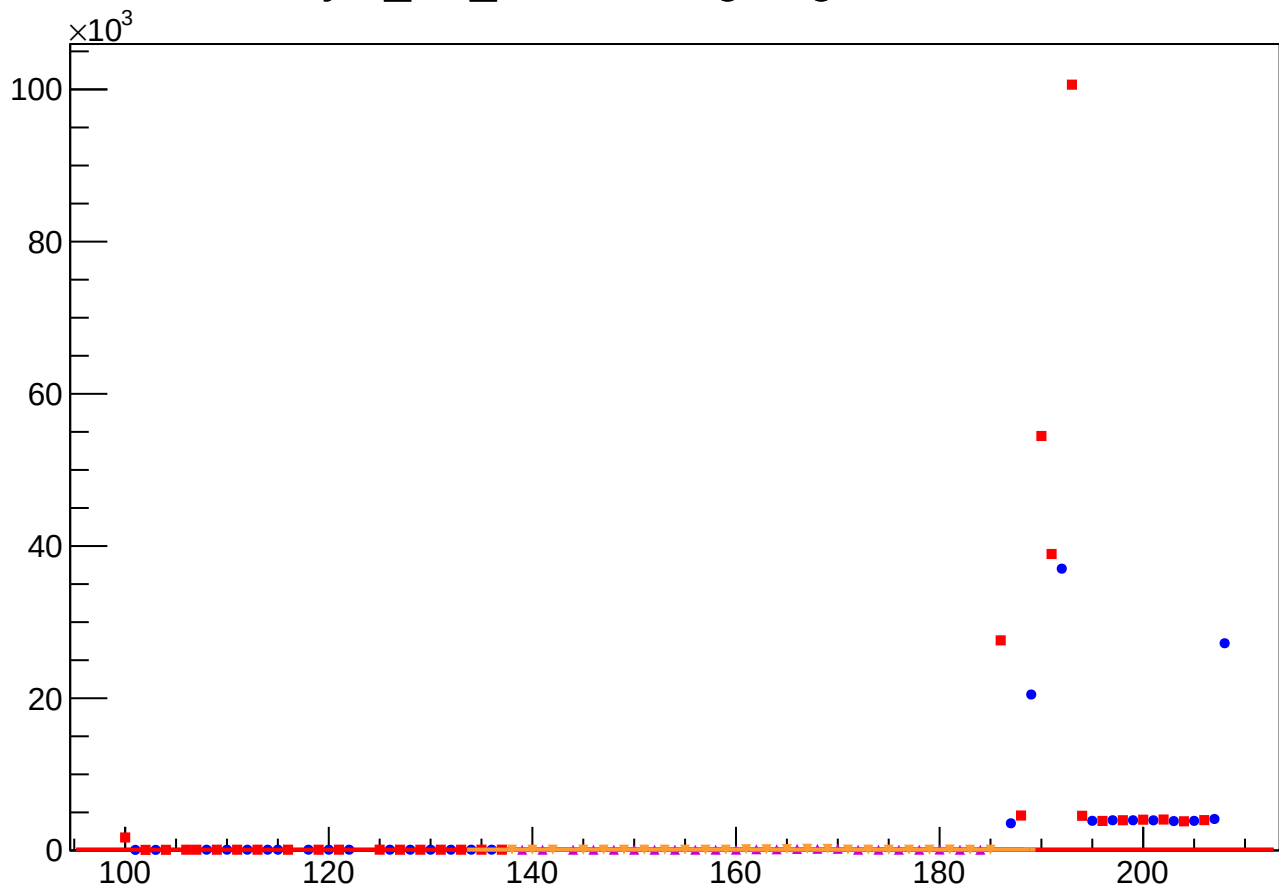
Right: -0.247 ± 25.996 $\chi^2/\text{NDF}: 51.2/56$

In: 16.014 ± 21.419 $\chi^2/\text{NDF}: 68.3/49$

Out: 9.110 ± 21.372 $\chi^2/\text{NDF}: 54.7/53$

All: 12.554 ± 15.129 $\chi^2/\text{NDF}: 123.1/103$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.079+/-0.026

χ^2/NDF : 13557970.1/26

Left Out: 108.090+/-0.019

χ^2/NDF : 1436368.7/23

Right Out: 98.237+/-0.026

χ^2/NDF : 12437194.6/29

Left In: 107.703+/-0.019

χ^2/NDF : 1492338.5/22

Left: 107.897+/-0.013

χ^2/NDF : 2928923.7/46

Right: 97.158+/-0.018

χ^2/NDF : 25998610.7/56

In: 103.759+/-0.015

χ^2/NDF : 15182363.8/49

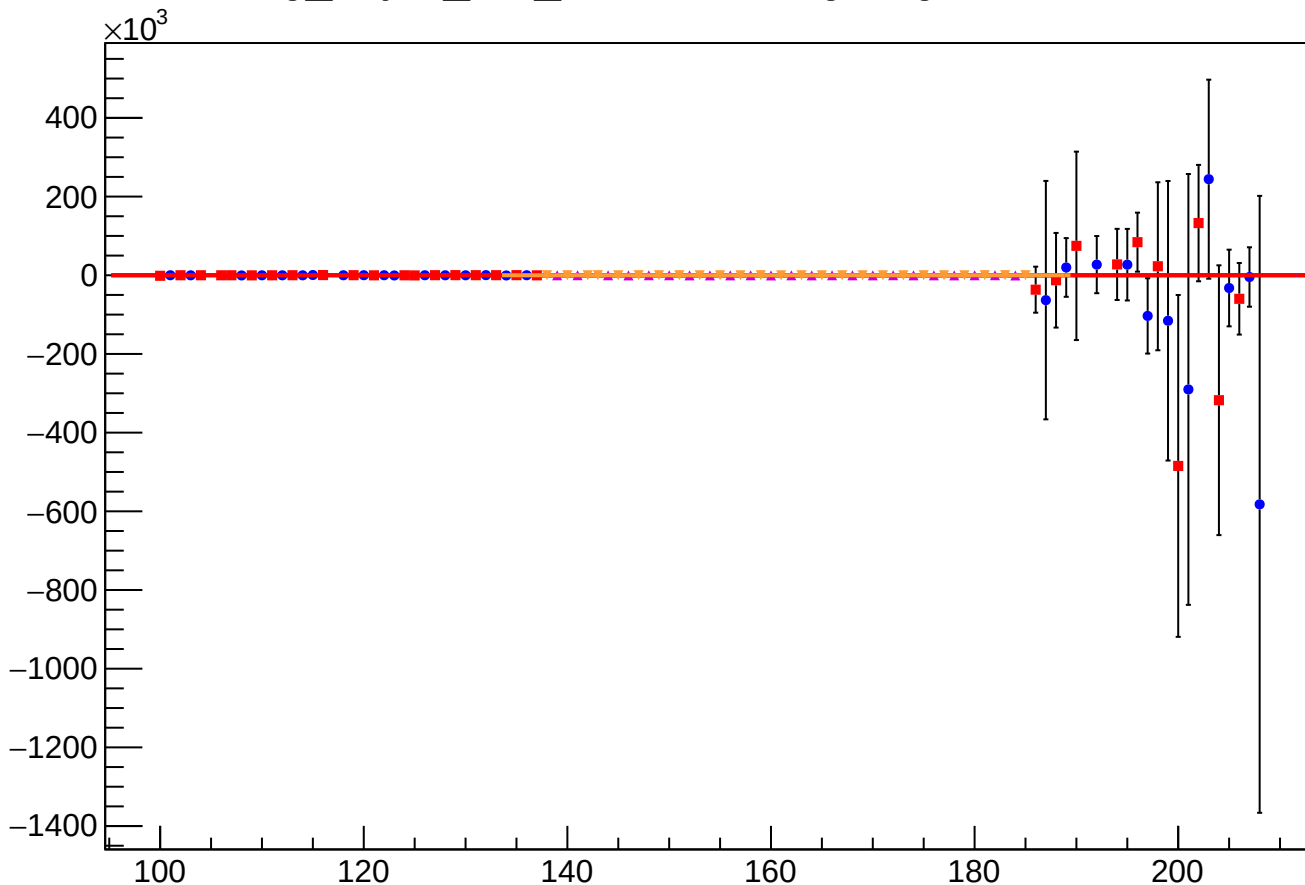
Out: 104.759+/-0.015

χ^2/NDF : 13968697.5/53

All: 104.260+/-0.011

χ^2/NDF : 29153247.4/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.804 ± 46.841 χ^2/NDF : 17.9/27

Left Out: -12.829 ± 32.063 χ^2/NDF : 12.0/24

Right Out: 53.389 ± 47.775 χ^2/NDF : 20.6/28

Left In: -65.335 ± 32.944 χ^2/NDF : 19.3/22

Left: -38.371 ± 22.977 χ^2/NDF : 32.6/47

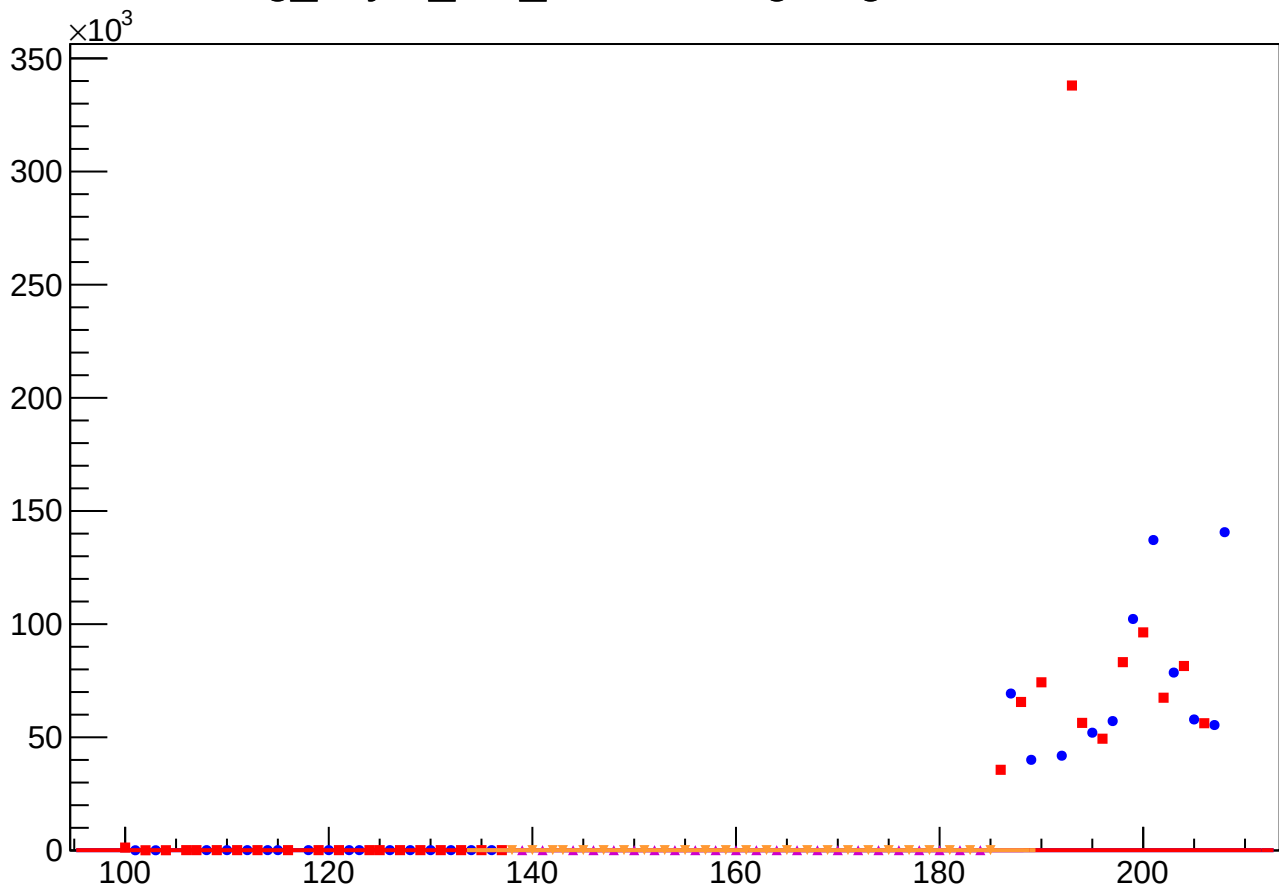
Right: 12.501 ± 33.447 χ^2/NDF : 40.0/56

In: -52.583 ± 26.947 χ^2/NDF : 37.7/50

Out: 7.734 ± 26.623 χ^2/NDF : 33.9/53

All: -22.060 ± 18.939 χ^2/NDF : 74.1/104

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.878 $\pm$ 0.033 χ^2 /NDF: 6498890.3/27

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

Right Out: 124.836 $\pm$ 0.034 χ^2 /NDF: 6059831.0/29

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

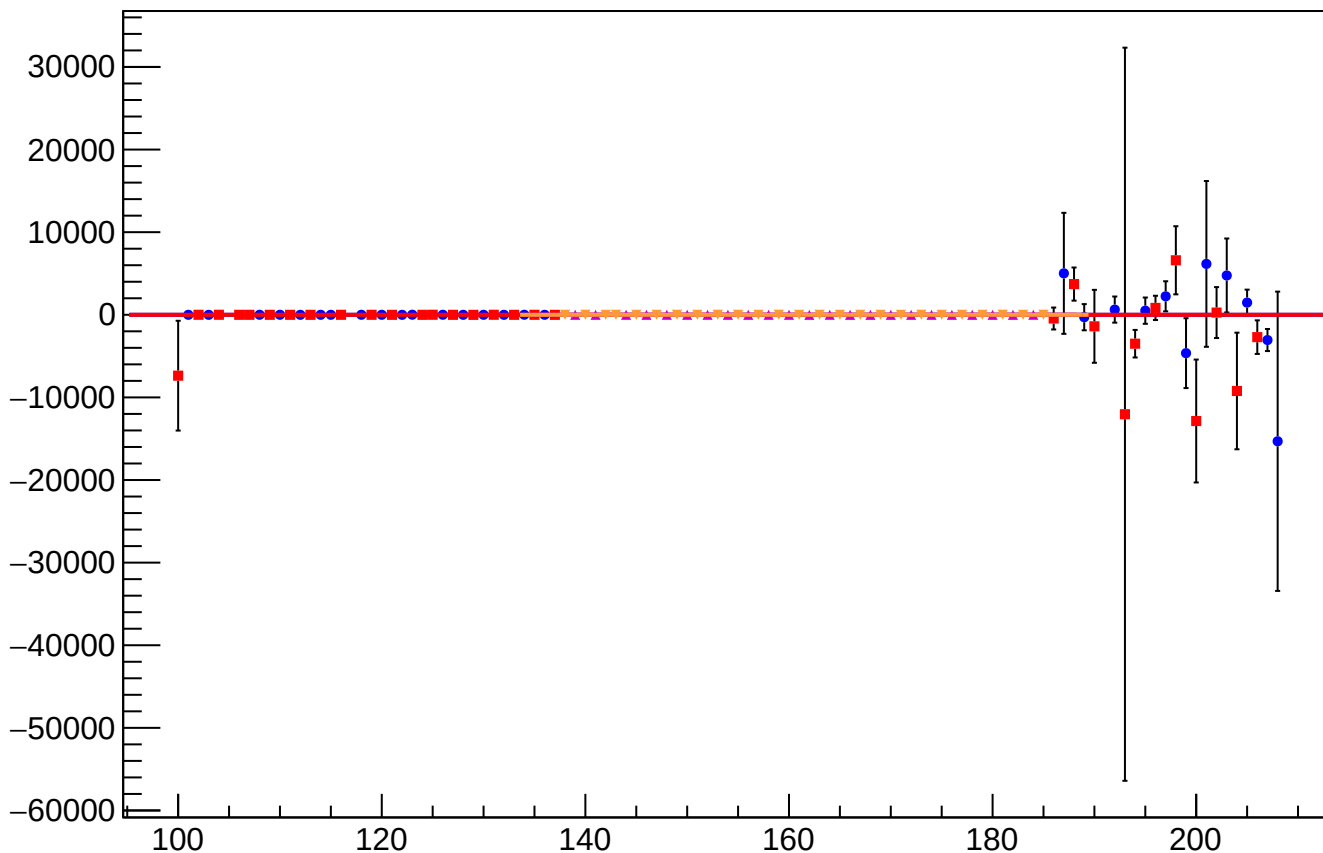
Right: 121.288 $\pm$ 0.024 χ^2 /NDF: 12580354.2/57

In: 131.210 $\pm$ 0.019 χ^2 /NDF: 6741514.4/50

Out: 133.813 $\pm$ 0.019 χ^2 /NDF: 6162696.1/54

All: 132.527 $\pm$ 0.013 χ^2 /NDF: 12913657.3/100

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 24.0/27

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

Right Out: -0.639 ± 0.852 χ^2/NDF : 32.2/29

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

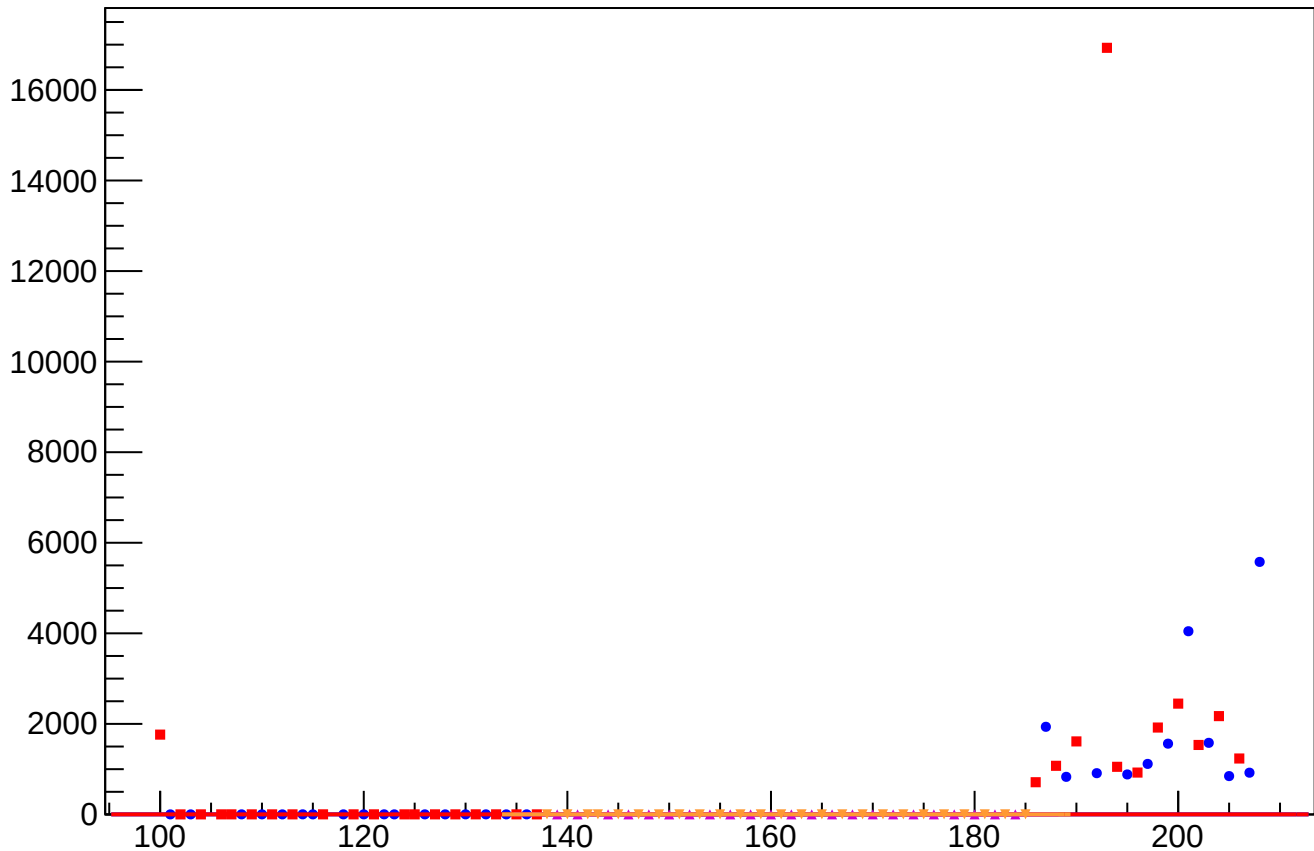
Right: -0.681 ± 0.587 χ^2/NDF : 56.2/57

In: -0.052 ± 0.471 χ^2/NDF : 45.7/50

Out: 0.139 ± 0.475 χ^2/NDF : 62.4/54

All: 0.043 ± 0.334 χ^2/NDF : 108.2/105

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 5769015.2/27

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

Right Out: 2.065+/-0.001 χ^2/NDF : 5881033.5/29

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

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

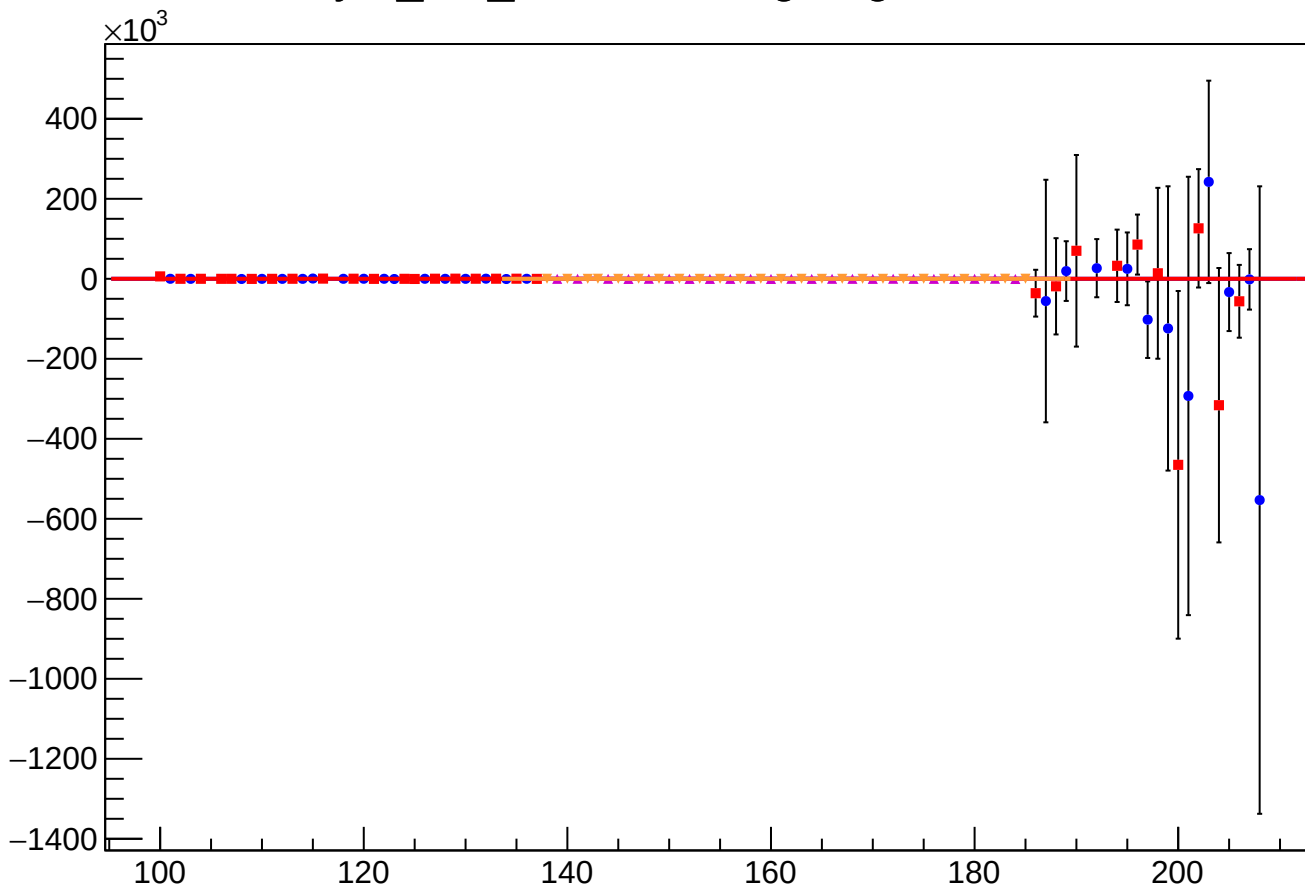
Right: 1.961+/-0.000 χ^2/NDF : 11706905.2/57

In: 2.083+/-0.000 χ^2/NDF : 6494289.0/50

Out: 2.201+/-0.000 χ^2/NDF : 6329468.7/54

All: 2.141+/-0.000 χ^2/NDF : 12886120.7/105

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.066 ± 46.854 χ^2/NDF : 17.9/27

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

Right Out: 54.292 ± 47.789 χ^2/NDF : 21.1/28

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

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

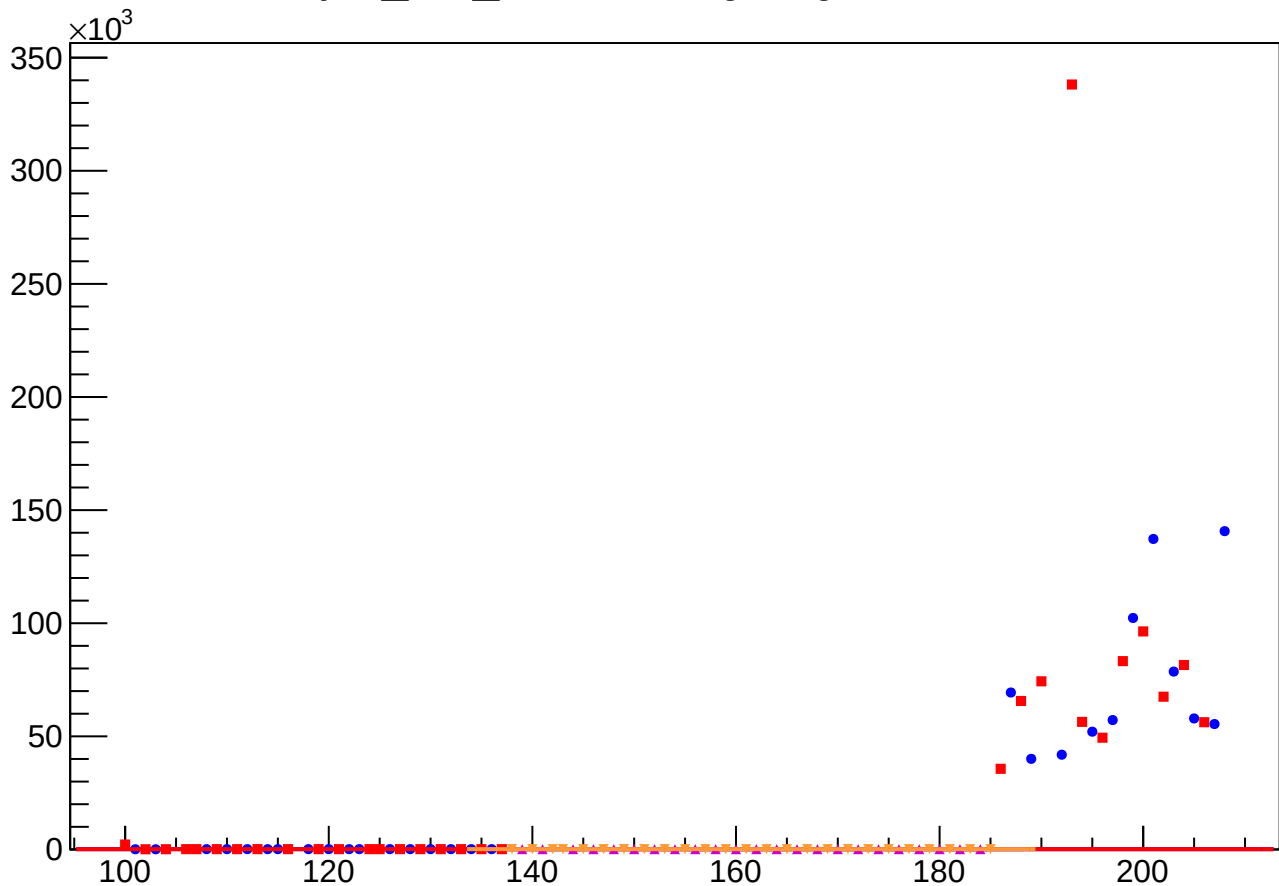
Right: 13.829 ± 33.456 χ^2/NDF : 40.4/56

In: -51.939 ± 26.954 χ^2/NDF : 37.7/50

Out: 7.632 ± 26.631 χ^2/NDF : 34.3/53

All: -21.794 ± 18.944 χ^2/NDF : 74.5/104

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.910 $\pm$ 0.033 χ^2 /NDF: 6499024.9/27

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

Right Out: 124.825 $\pm$ 0.034 χ^2 /NDF: 6070507.8/29

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

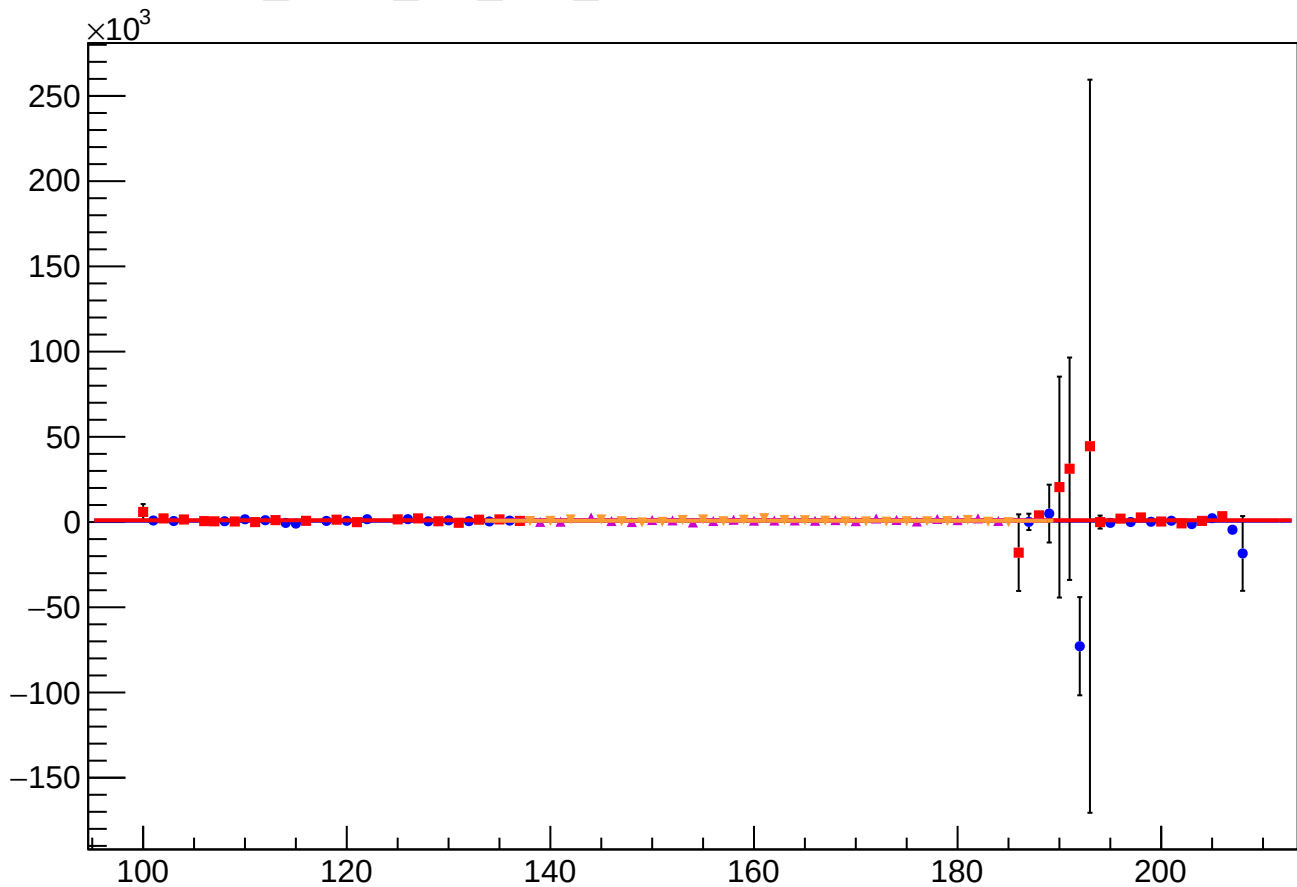
Right: 121.299 $\pm$ 0.024 χ^2 /NDF: 12590887.7/57

In: 131.246 $\pm$ 0.019 χ^2 /NDF:6741684.4/50

Out: 133.836 $\pm$ 0.019 χ^2 /NDF:6174093.1/54

All: 132.557 $\pm$ 0.013 χ^2 /NDF: 12925124.2/10

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 765.850 $\pm$ 209.869 χ^2 /NDF: 19.6/26

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

Right Out: 1037.077 $\pm$ 207.292 χ^2 /NDF: 18.7/29

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

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

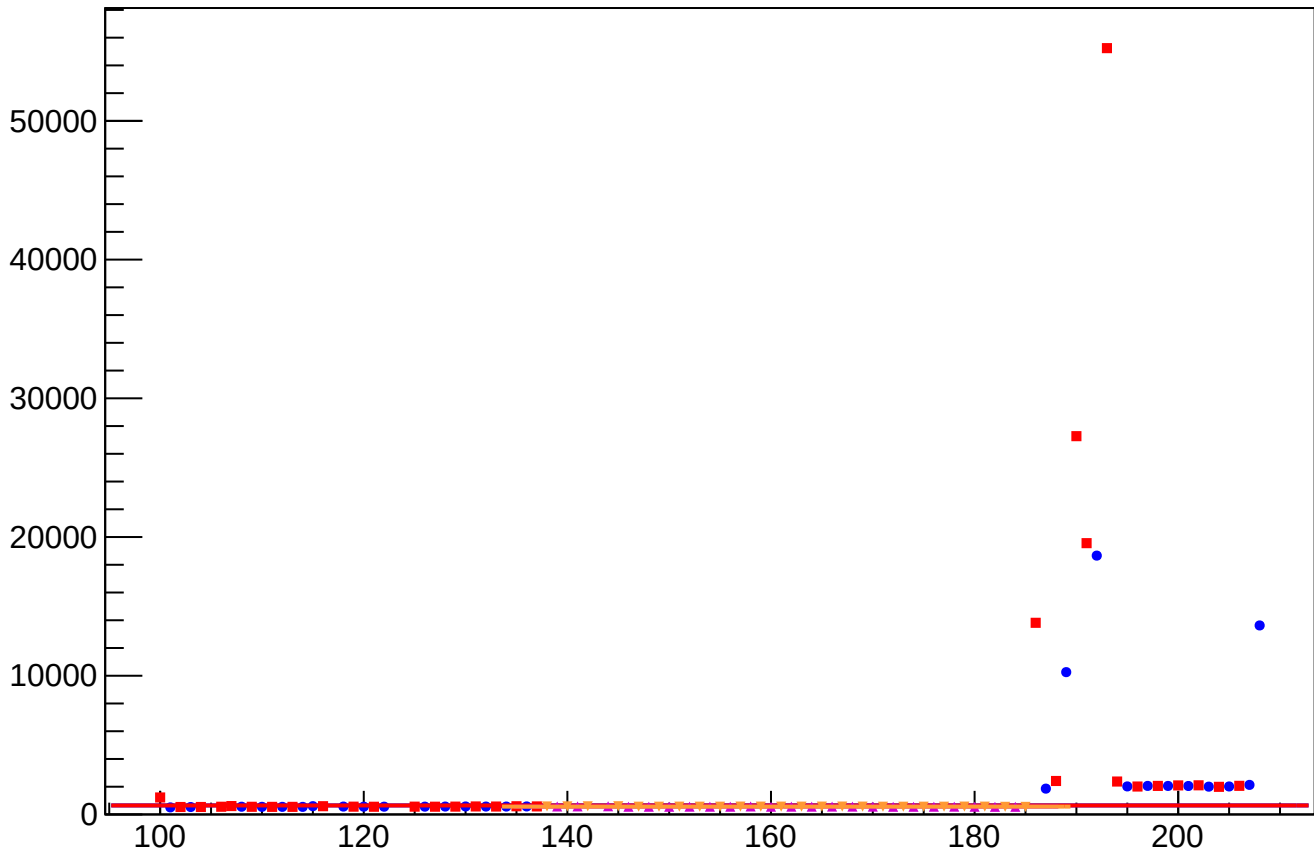
Right: 903.139 $\pm$ 147.480 χ^2 /NDF: 39.1/56

In: 913.407 $\pm$ 113.498 χ^2 /NDF:47.7/49

Out: 858.890 $\pm$ 112.566 χ^2 /NDF:39.0/53

All: 885.924 $\pm$ 79.924 χ^2 /NDF: 86.8/103

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 651.814+/-0.148 χ^2/NDF : 7932873.0/26

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

Right Out: 649.036+/-0.147 χ^2/NDF : 7187105.7/29

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

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

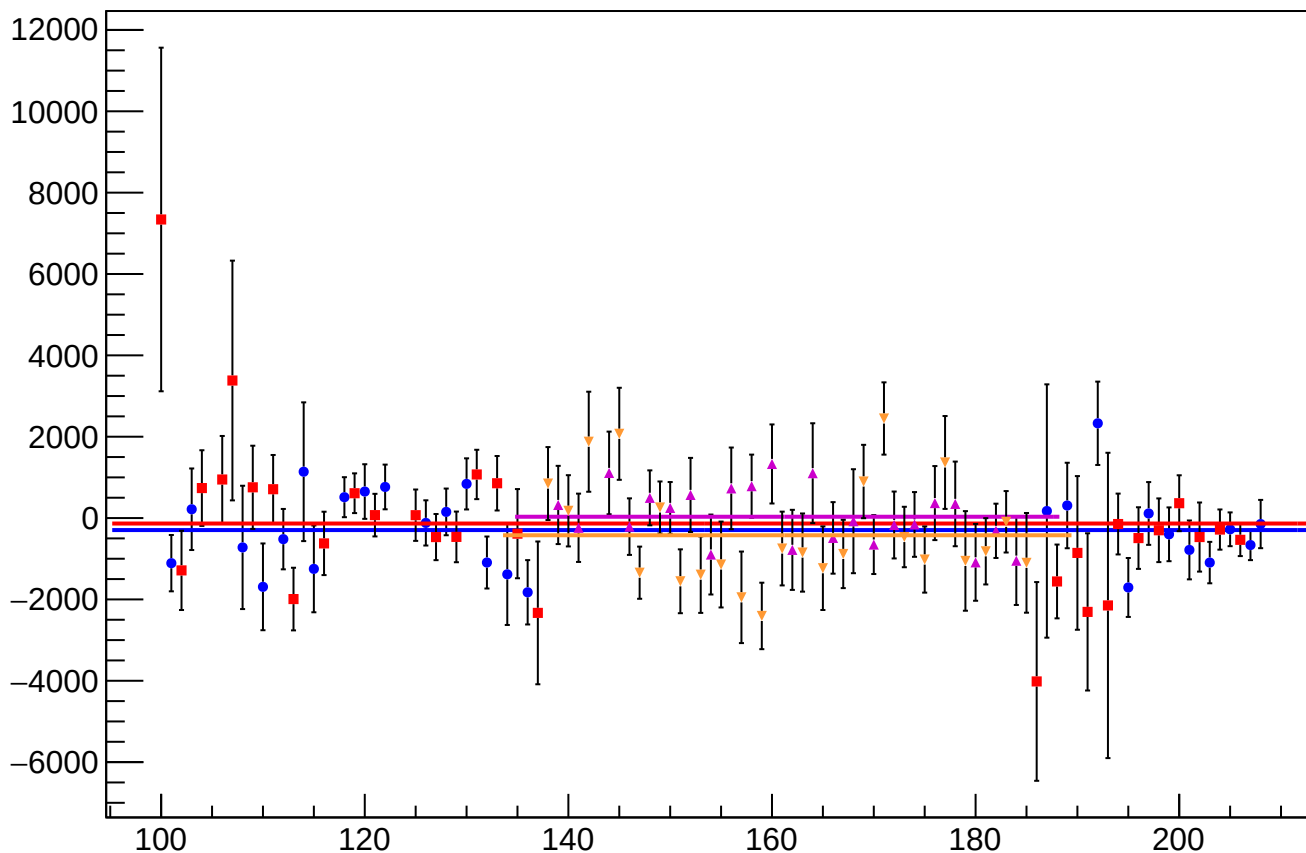
Right: 650.408+/-0.104 χ^2/NDF : 15120156.1/56

In: 589.954+/-0.080 χ^2/NDF : 8187673.9/49

Out: 589.177+/-0.080 χ^2/NDF : 7433217.4/53

All: 589.562+/-0.057 χ^2/NDF : 15620938.6/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -295.149+/-128.986 χ^2/NDF : 38.5/26

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

Right Out: -134.390+/-138.521 χ^2/NDF : 35.5/29

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

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

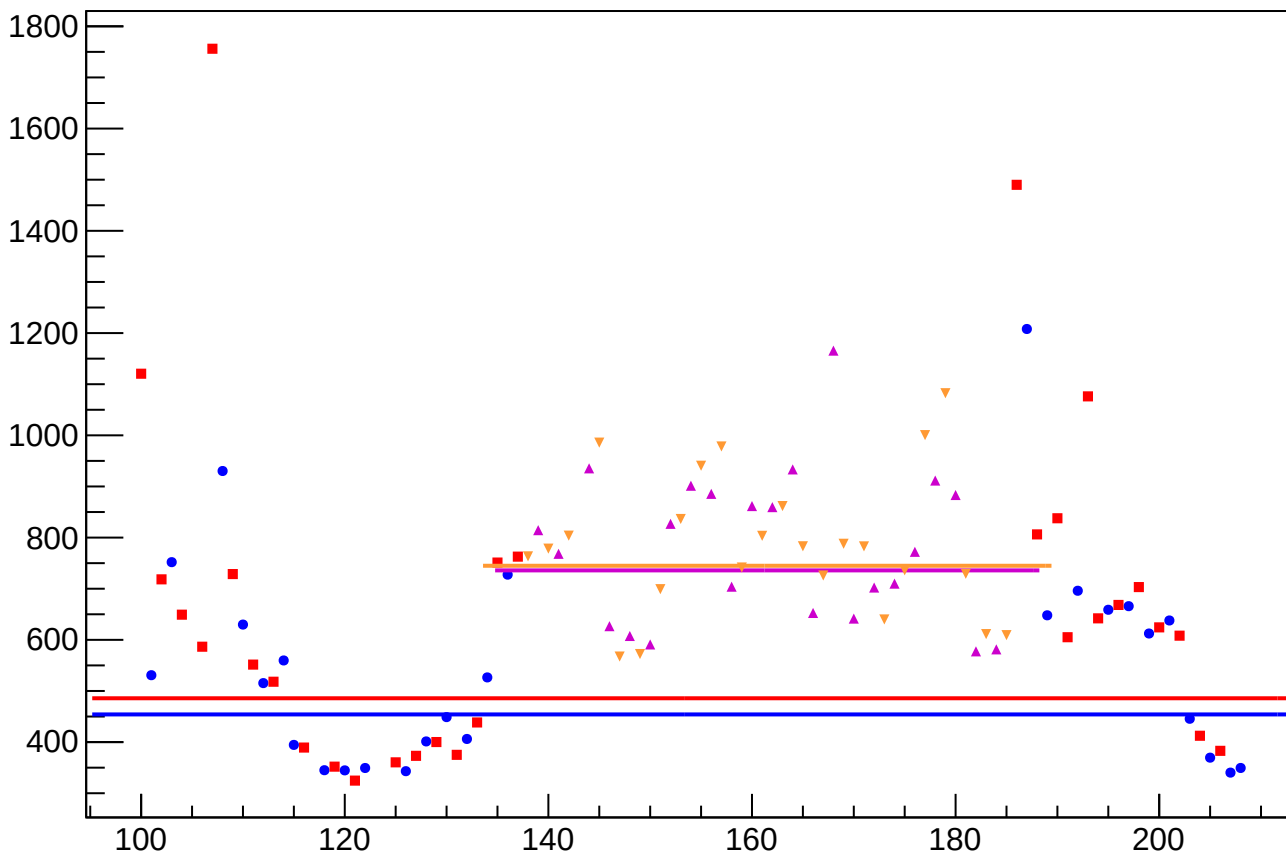
Right: -220.492+/-94.398 χ^2/NDF : 74.7/56

In: -183.548+/-104.733 χ^2/NDF :52.8/49

Out: -241.164+/-109.915 χ^2/NDF :80.3/53

All: -210.966+/-75.823 χ^2/NDF : 133.3/103

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 454.132+/-0.091 χ^2/NDF : 2242982.7/26

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

Right Out: 485.731+/-0.098 χ^2/NDF : 2919402.7/29

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

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

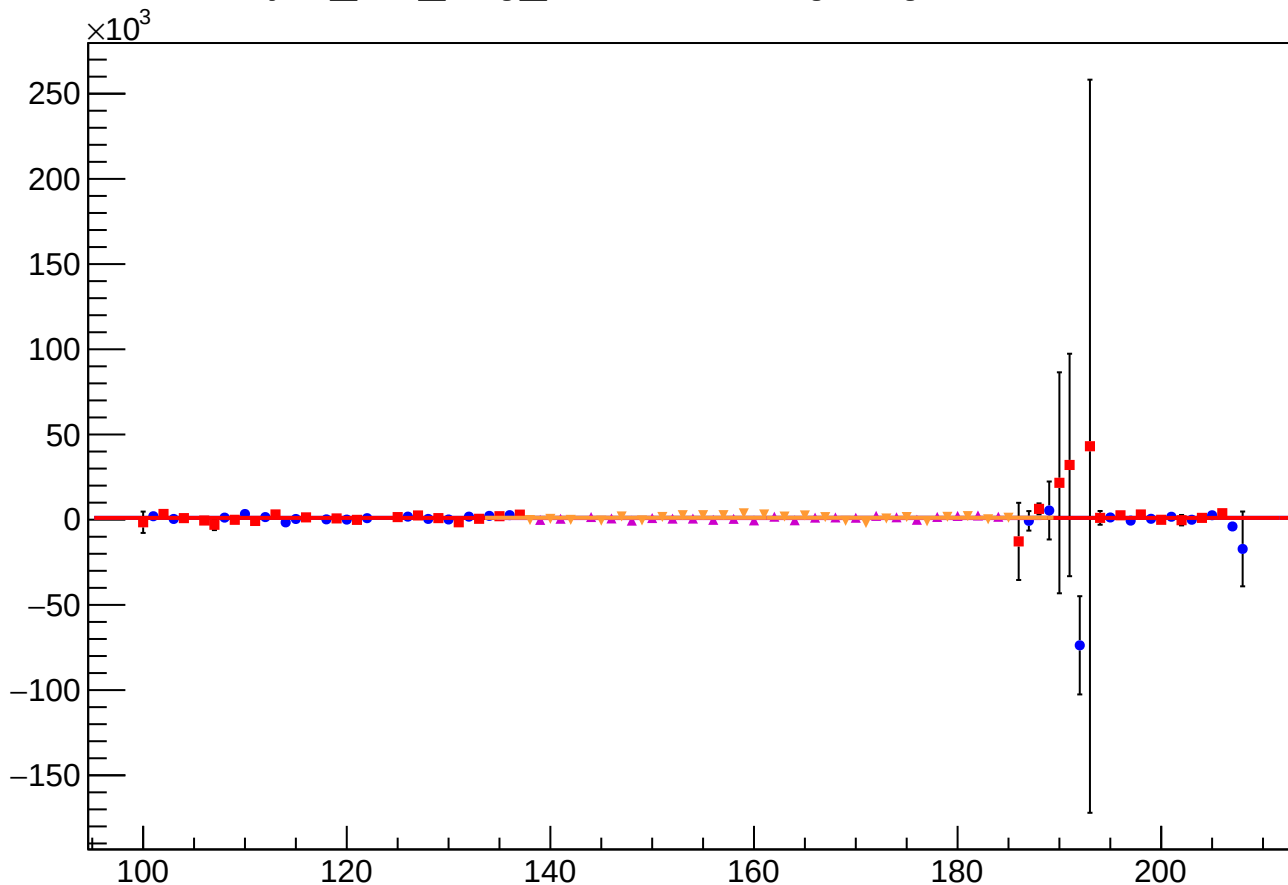
Right: 468.806+/-0.067 χ^2/NDF : 5218127.1/56

In: 550.114+/-0.074 χ^2/NDF : 6598882.4/49

Out: 581.722+/-0.078 χ^2/NDF : 6521425.6/53

All: 565.155+/-0.054 χ^2/NDF : 13206994.7/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1088.895 ± 280.628 χ^2/NDF : 25.3/26

Left Out: 1137.936 ± 228.834 χ^2/NDF : 38.9/23

Right Out: 1059.159 ± 280.415 χ^2/NDF : 29.8/29

Left In: 941.702 ± 228.324 χ^2/NDF : 14.8/22

Left: 1039.600 ± 161.629 χ^2/NDF : 54.0/46

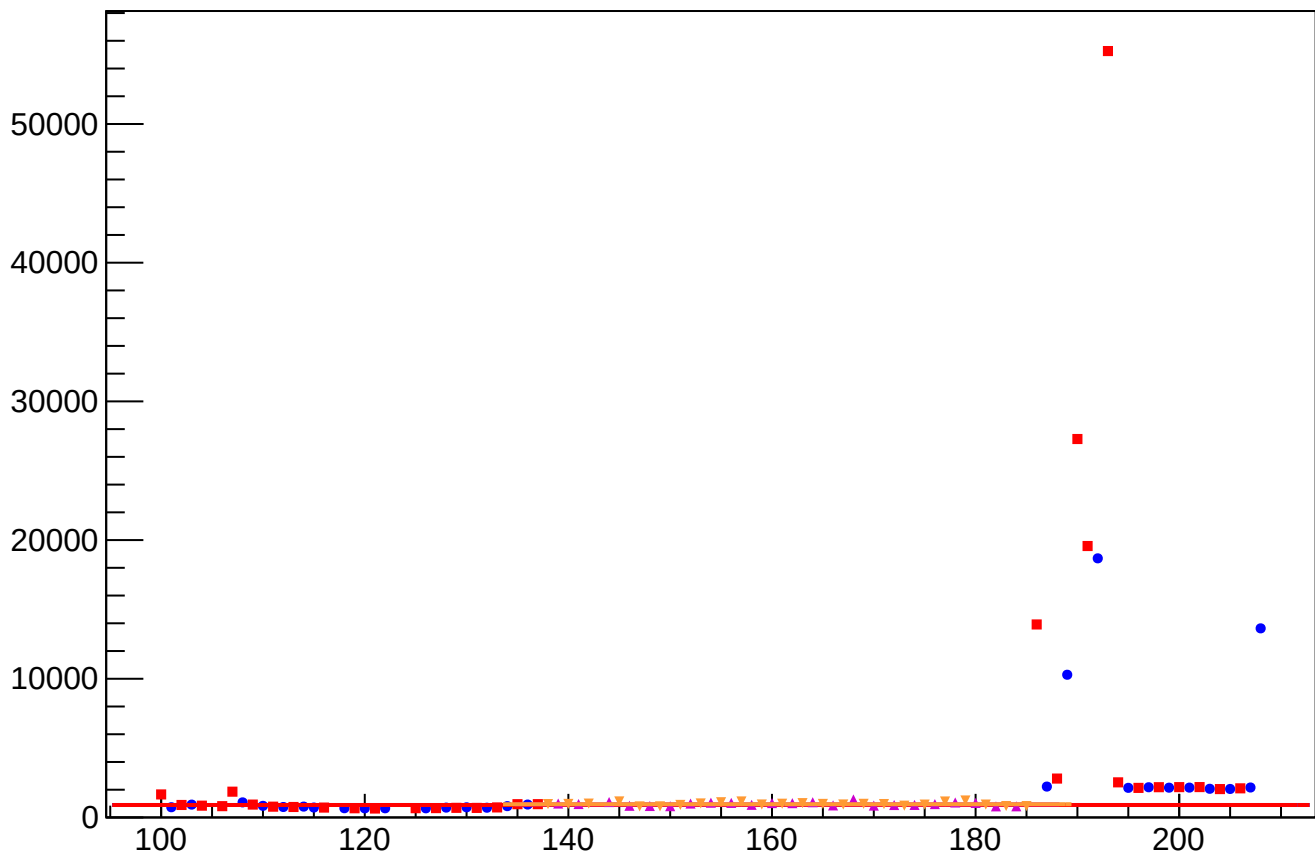
Right: 1074.016 ± 198.359 χ^2/NDF : 55.1/56

In: 1000.329 ± 177.109 χ^2/NDF : 40.2/49

Out: 1106.446 ± 177.292 χ^2/NDF : 68.7/53

All: 1053.333 ± 125.300 χ^2/NDF : 109.1/103

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 899.348+/-0.198 χ^2/NDF : 6669031.5/26

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

Right Out: 897.768+/-0.198 χ^2/NDF : 6342586.0/29

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

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

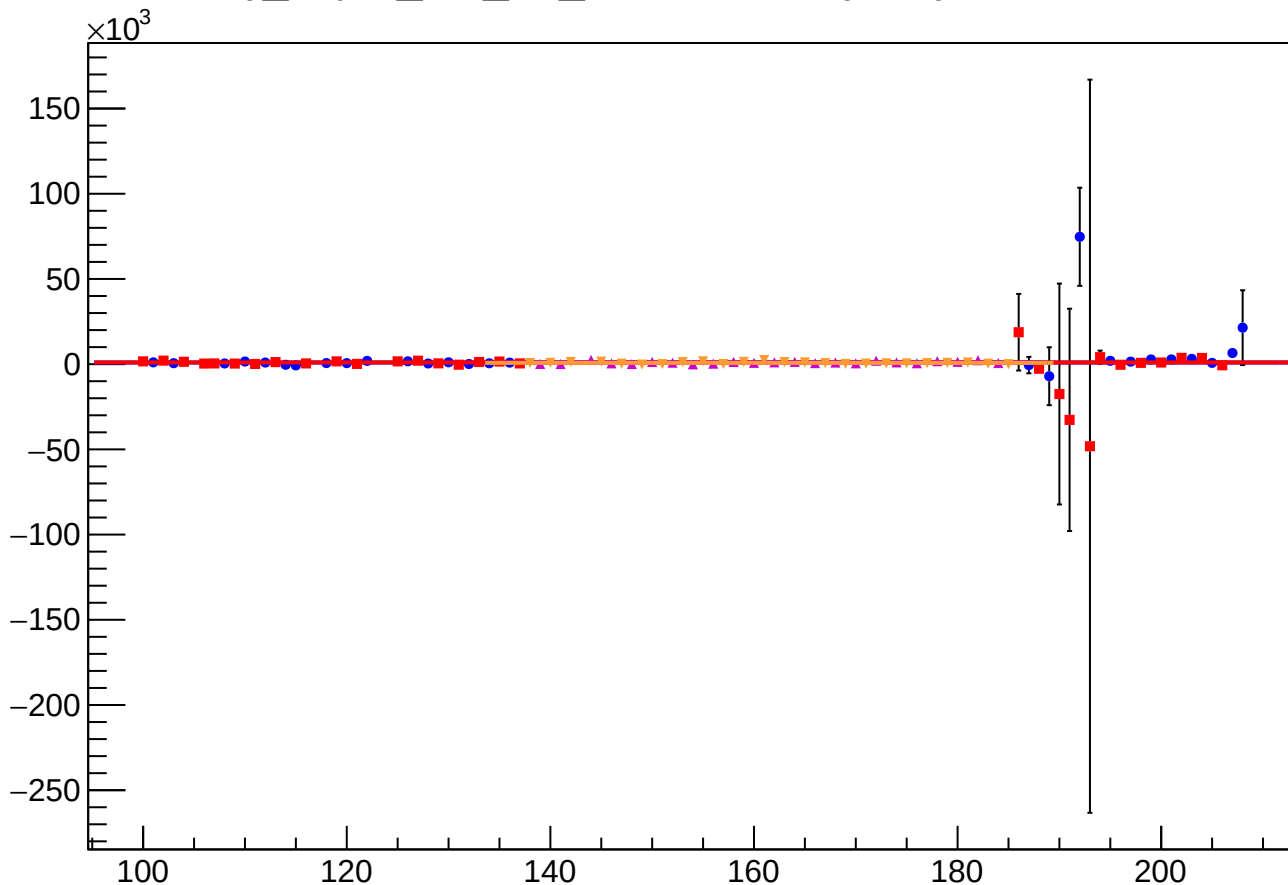
Right: 898.558+/-0.140 χ^2/NDF : 13011649.2/56

In: 927.763+/-0.125 χ^2/NDF : 7204476.4/49

Out: 931.722+/-0.125 χ^2/NDF : 6851583.3/53

All: 929.741+/-0.089 χ^2/NDF : 14056559.0/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 960.489 $\pm$ 209.738 χ^2 /NDF: 22.3/26

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

Right Out: 1017.996 $\pm$ 202.677 χ^2 /NDF: 18.8/29

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

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

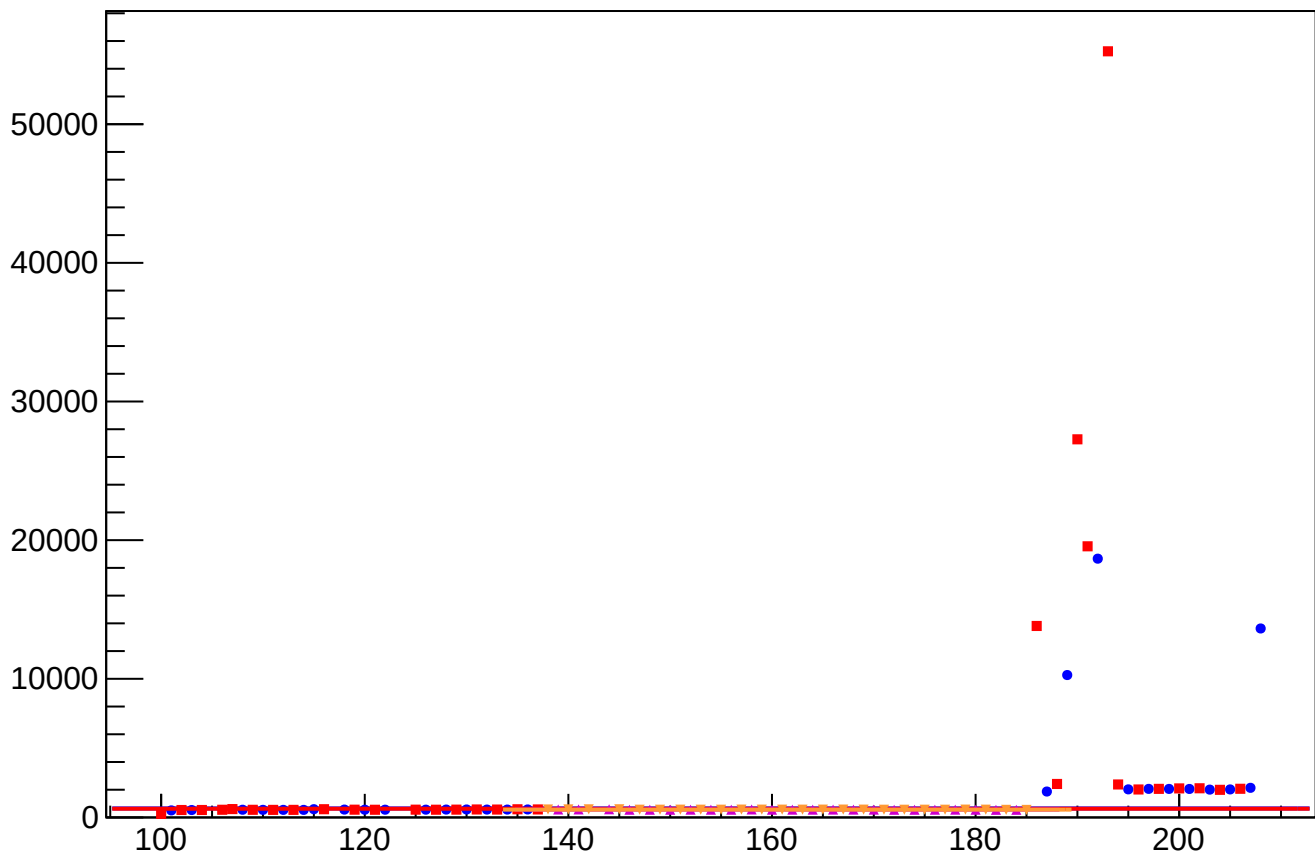
Right: 990.227 $\pm$ 145.747 χ^2 /NDF: 41.2/56

In: 959.093 $\pm$ 113.413 χ^2 /NDF:49.2/49

Out: 836.785 $\pm$ 111.745 χ^2 /NDF:41.0/53

All: 897.033 $\pm$ 79.599 χ^2 /NDF: 90.8/103

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 651.190+/-0.148 χ^2/NDF : 7946095.8/26

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

Right Out: 629.708+/-0.143 χ^2/NDF : 7488527.4/29

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

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

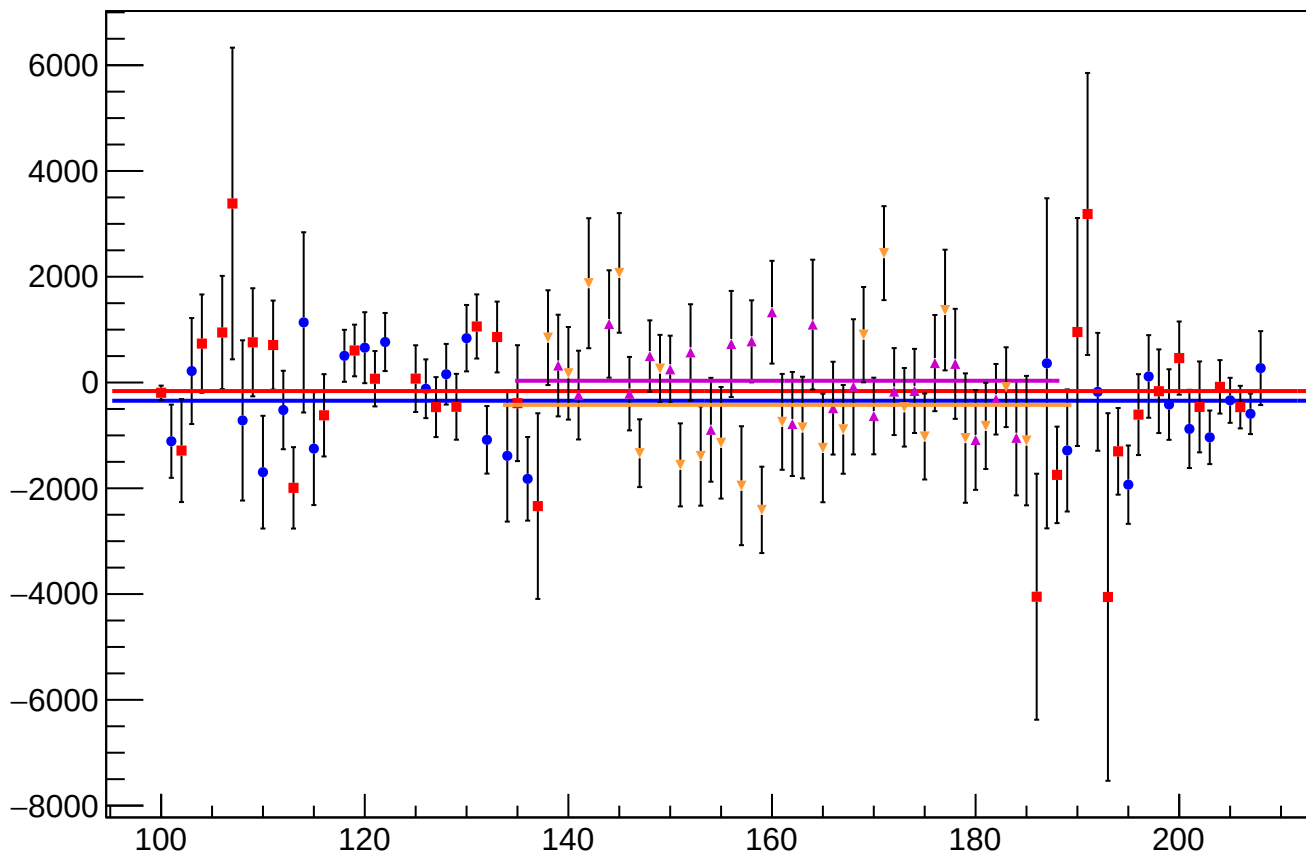
Right: 640.081+/-0.103 χ^2/NDF : 15445473.0/56

In: 589.447+/-0.080 χ^2/NDF : 8200238.8/49

Out: 583.747+/-0.079 χ^2/NDF : 7645833.7/53

All: 586.555+/-0.056 χ^2/NDF : 15848635.8/10

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -344.570 $\pm$ 131.204 χ^2/NDF : 33.3/26

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

Right Out: -161.221 $\pm$ 97.072 χ^2/NDF : 36.7/29

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

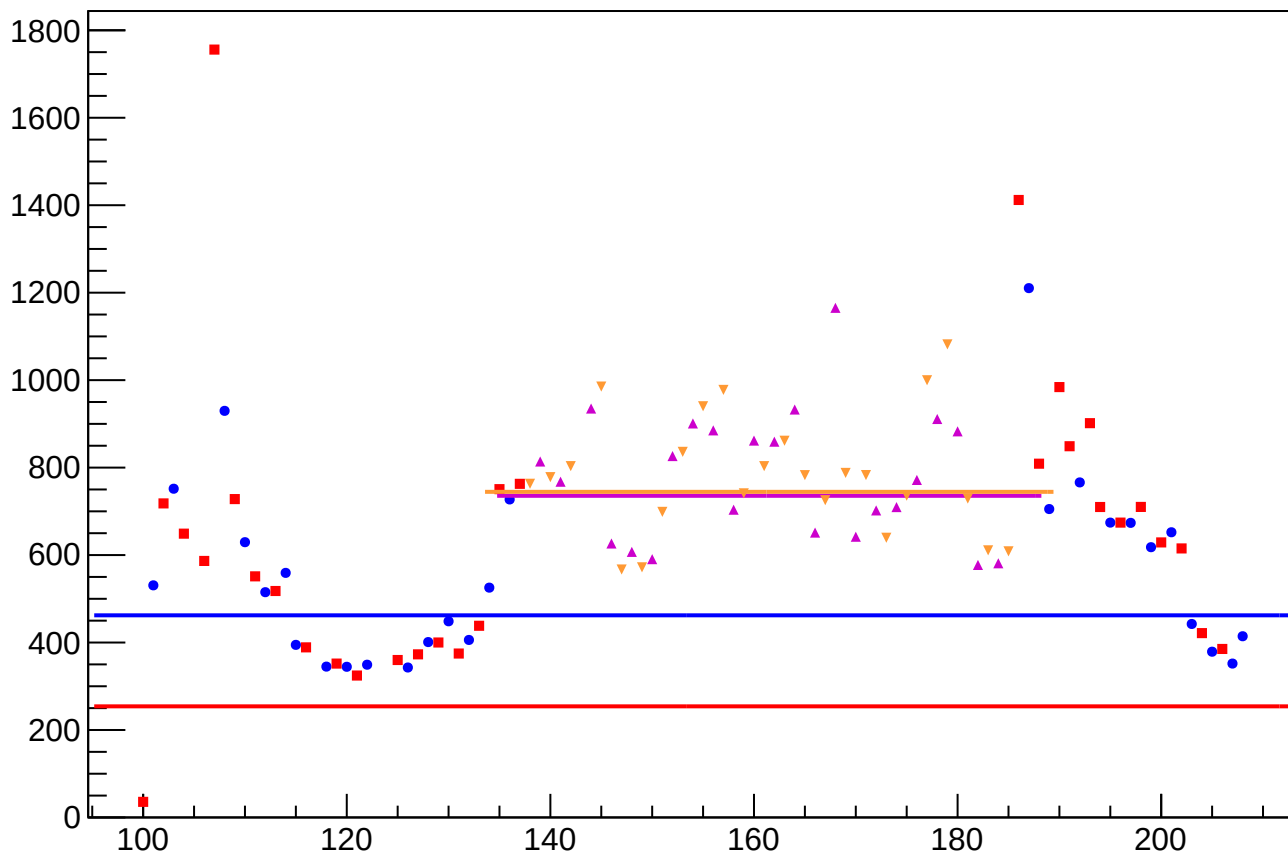
Right: -226.081 $\pm$ 78.036 χ^2/NDF : 71.3/56

In: -212.838 $\pm$ 105.894 χ^2/NDF : 48.3/49

Out: -219.781 $\pm$ 85.496 χ^2/NDF : 81.6/53

All: -217.041 $\pm$ 66.522 χ^2/NDF : 129.9/103

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 462.218+/-0.093 χ^2/NDF : 2230363.3/26

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

Right Out: 254.080+/-0.069 χ^2/NDF : 13814224.5/29

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

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

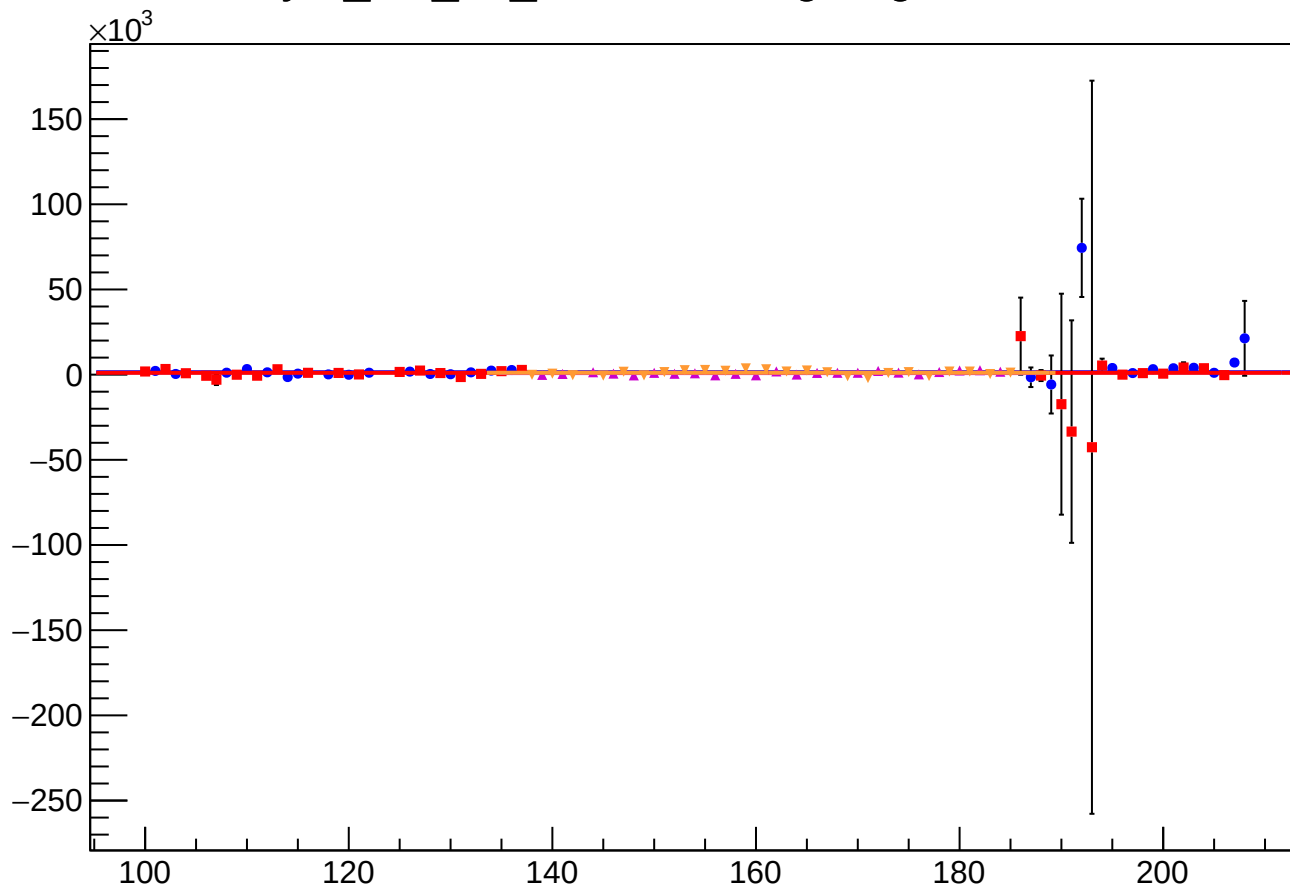
Right: 327.709+/-0.055 χ^2/NDF : 19297237.7/56

In: 557.497+/-0.075 χ^2/NDF : 6361199.5/49

Out: 364.093+/-0.060 χ^2/NDF : 26277300.1/53

All: 440.414+/-0.047 χ^2/NDF : 36677191.0/100

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1412.557 ± 280.532 χ^2/NDF : 29.7/26

Left Out: 1105.144 ± 228.700 χ^2/NDF : 38.3/23

Right Out: 1075.557 ± 269.513 χ^2/NDF : 28.0/29

Left In: 926.281 ± 228.196 χ^2/NDF : 15.1/22

Left: 1015.515 ± 161.537 χ^2/NDF : 53.7/46

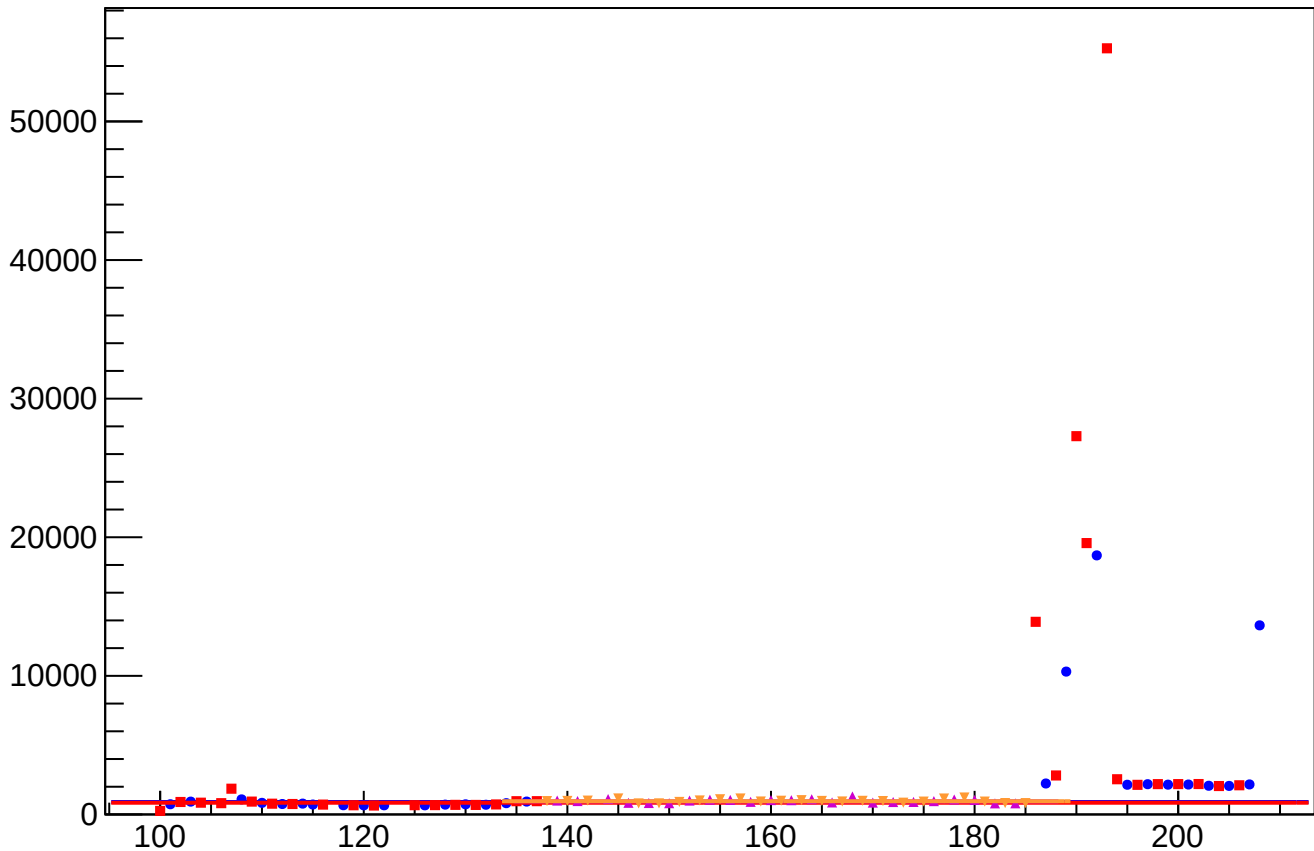
Right: 1237.308 ± 194.353 χ^2/NDF : 58.5/56

In: 1119.917 ± 177.025 χ^2/NDF : 46.6/49

Out: 1092.758 ± 174.379 χ^2/NDF : 66.3/53

All: 1106.133 ± 124.229 χ^2/NDF : 112.9/103

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 898.610+/-0.198 χ^2/NDF : 6688881.5/26

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

Right Out: 846.110+/-0.191 χ^2/NDF : 7132971.4/29

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

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

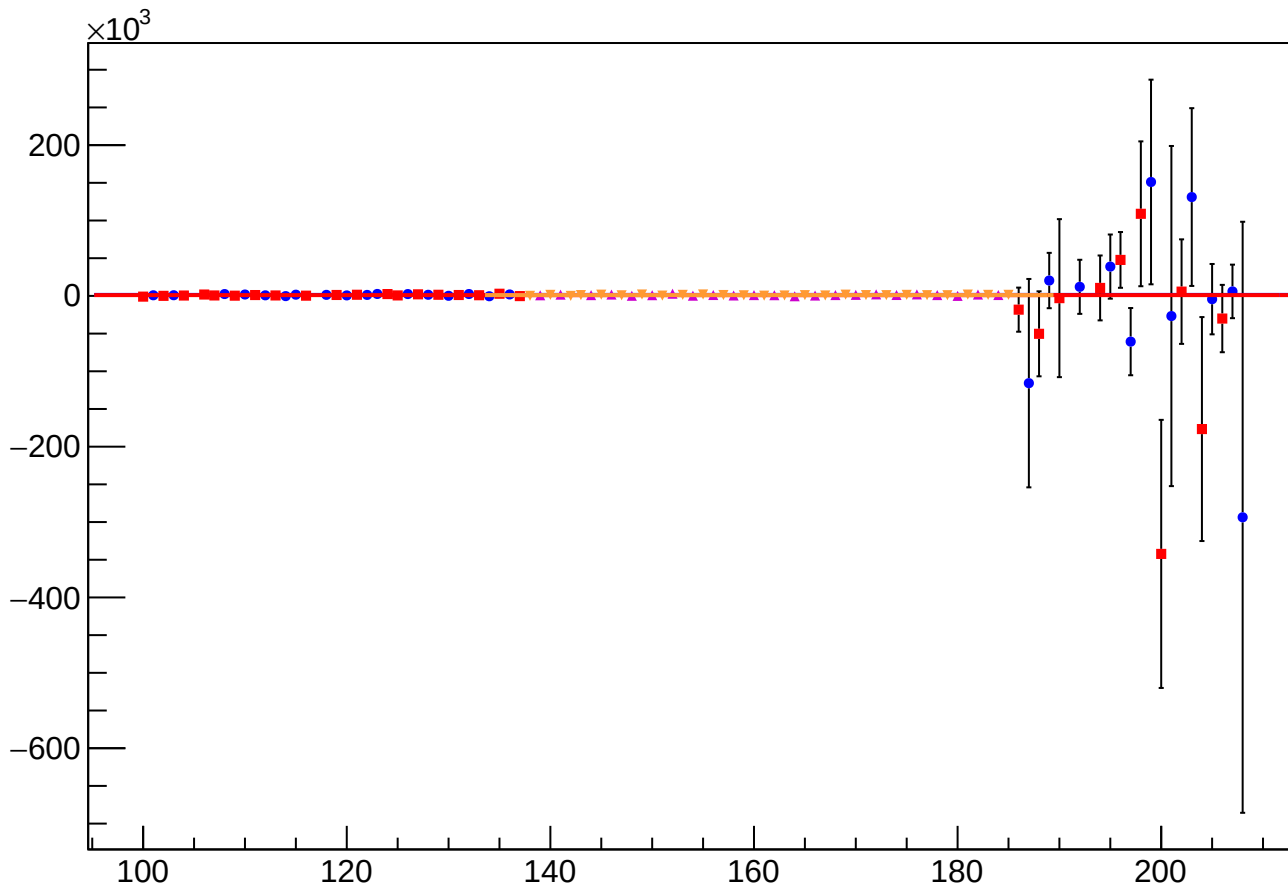
Right: 871.308+/-0.137 χ^2/NDF : 13858278.8/56

In: 927.154+/-0.125 χ^2/NDF : 7224730.7/49

Out: 908.707+/-0.123 χ^2/NDF : 7778759.8/53

All: 917.791+/-0.088 χ^2/NDF : 15014512.6/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.102 $\pm$ 218.579 χ^2 /NDF: 19.6/27

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

Right Out: 1039.529 $\pm$ 212.062 χ^2 /NDF: 23.3/28

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

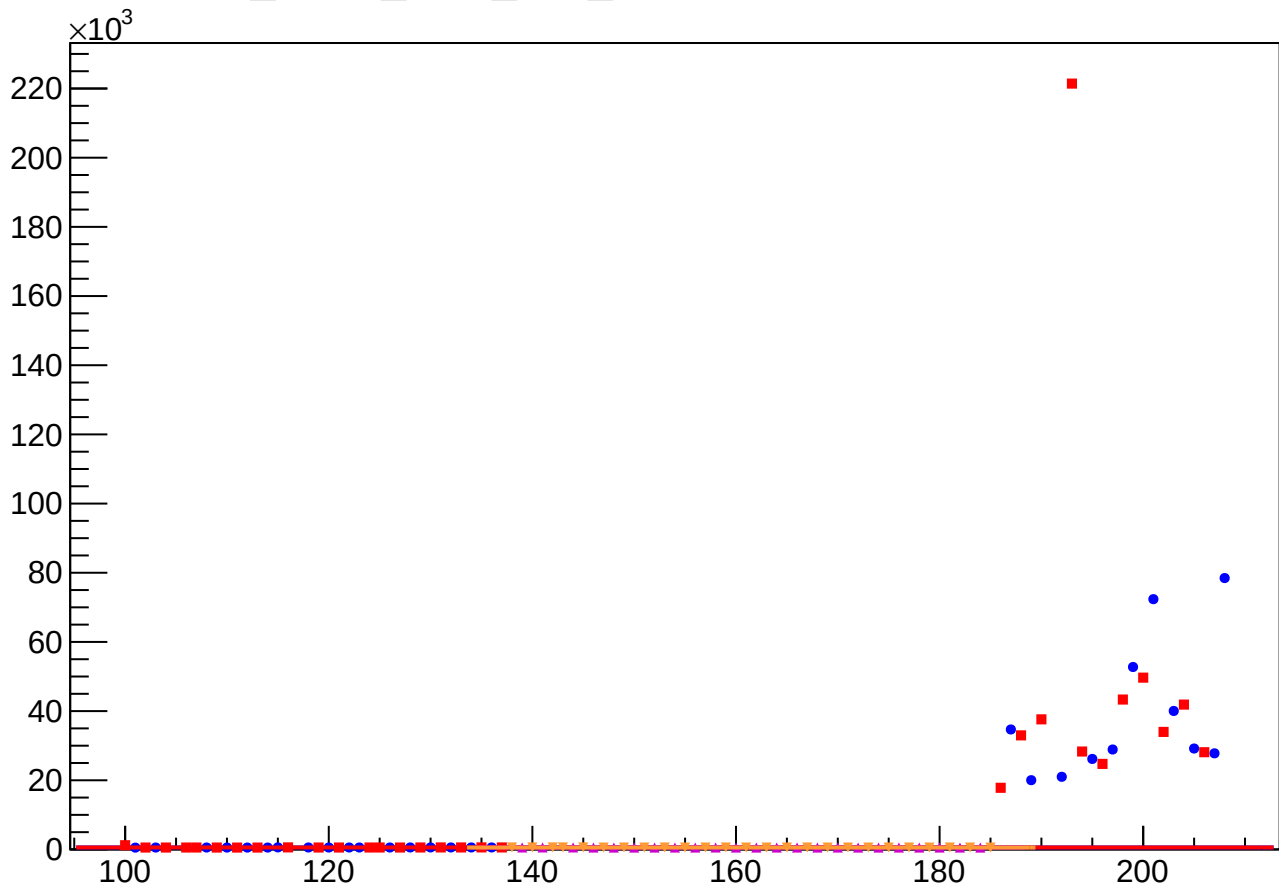
Right: 1177.995 $\pm$ 152.202 χ^2 /NDF: 43.8/56

In: 1178.331 $\pm$ 113.721 χ^2 /NDF:50.3/50

Out: 1064.344 $\pm$ 110.639 χ^2 /NDF:38.5/53

All: 1119.772 $\pm$ 79.301 χ^2 /NDF: 89.2/104

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.519+/-0.155 χ^2/NDF : 5759784.7/27

Left Out: 557.534+/-0.092 χ^2/NDF :14752.8/24

Right Out: 569.683+/-0.150 χ^2/NDF : 5483307.9/29

Left In: 556.969+/-0.094 χ^2/NDF :11209.7/22

Left: 557.259+/-0.066 χ^2/NDF : 25980.9/47

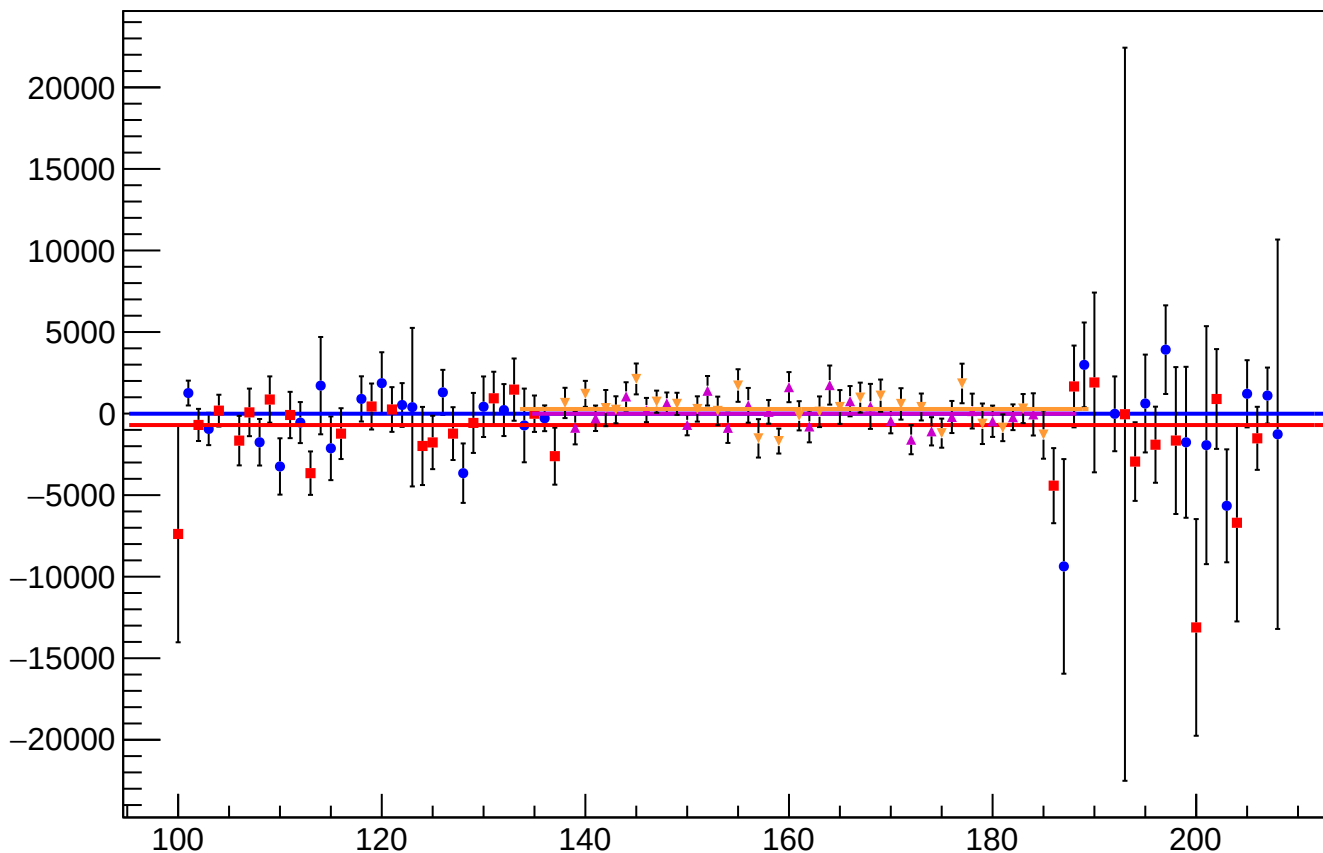
Right: 569.119+/-0.108 χ^2/NDF : 11243121.8/57

In: 560.095+/-0.080 χ^2/NDF :5775067.3/50

Out: 560.841+/-0.078 χ^2/NDF :5502838.0/54

All: 560.479+/-0.056 χ^2/NDF : 11277949.5/10

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -8.407 ± 306.880 χ^2/NDF : 26.3/27

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

Right Out: -703.028 ± 312.634 χ^2/NDF : 24.6/29

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

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

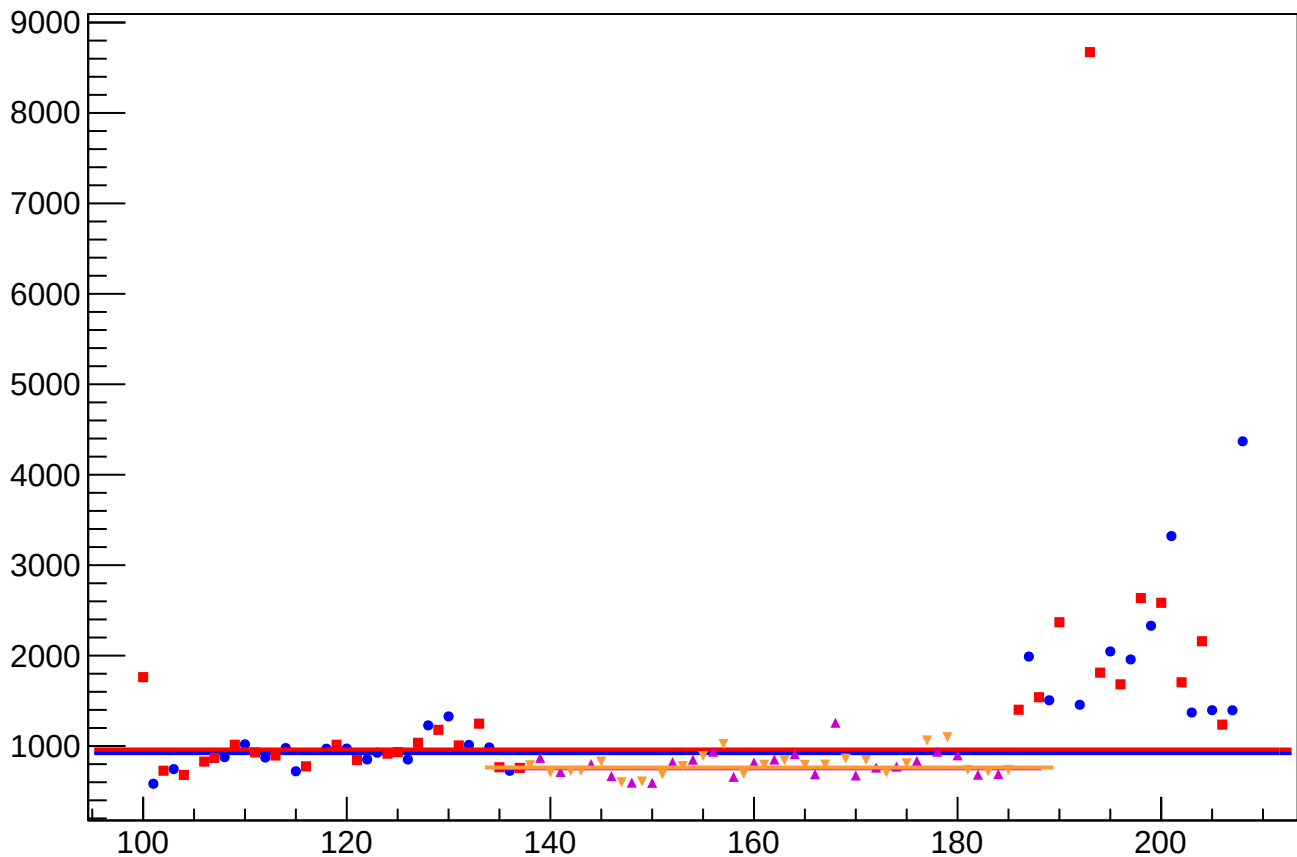
Right: -349.267 ± 219.003 χ^2/NDF : 53.4/57

In: -8.263 ± 157.417 χ^2/NDF : 46.4/50

Out: 35.804 ± 156.268 χ^2/NDF : 58.8/54

All: 13.932 ± 110.902 χ^2/NDF : 105.2/105

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 922.111+/-0.217 χ^2/NDF : 2484538.6/27

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

Right Out: 962.502+/-0.221 χ^2/NDF : 2174787.8/29

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

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

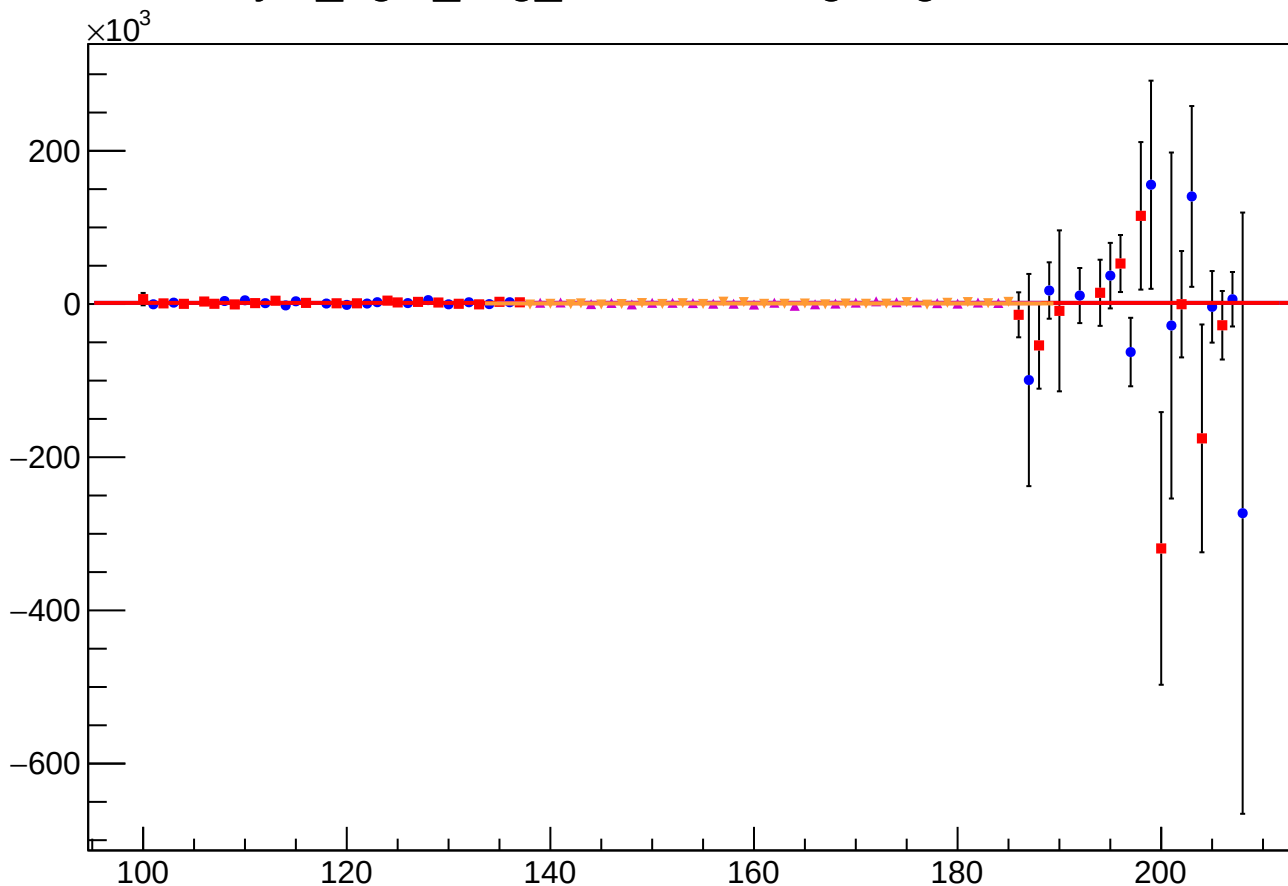
Right: 941.931+/-0.155 χ^2/NDF : 4676328.0/57

In: 798.308+/-0.111 χ^2/NDF : 3858107.9/50

Out: 812.908+/-0.110 χ^2/NDF : 3538919.6/54

All: 805.661+/-0.078 χ^2/NDF : 7405693.0/105

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.006 $\pm$ 402.536 χ^2 /NDF: 23.9/27

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

Right Out: 1485.657 $\pm$ 400.599 χ^2 /NDF: 21.8/28

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

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

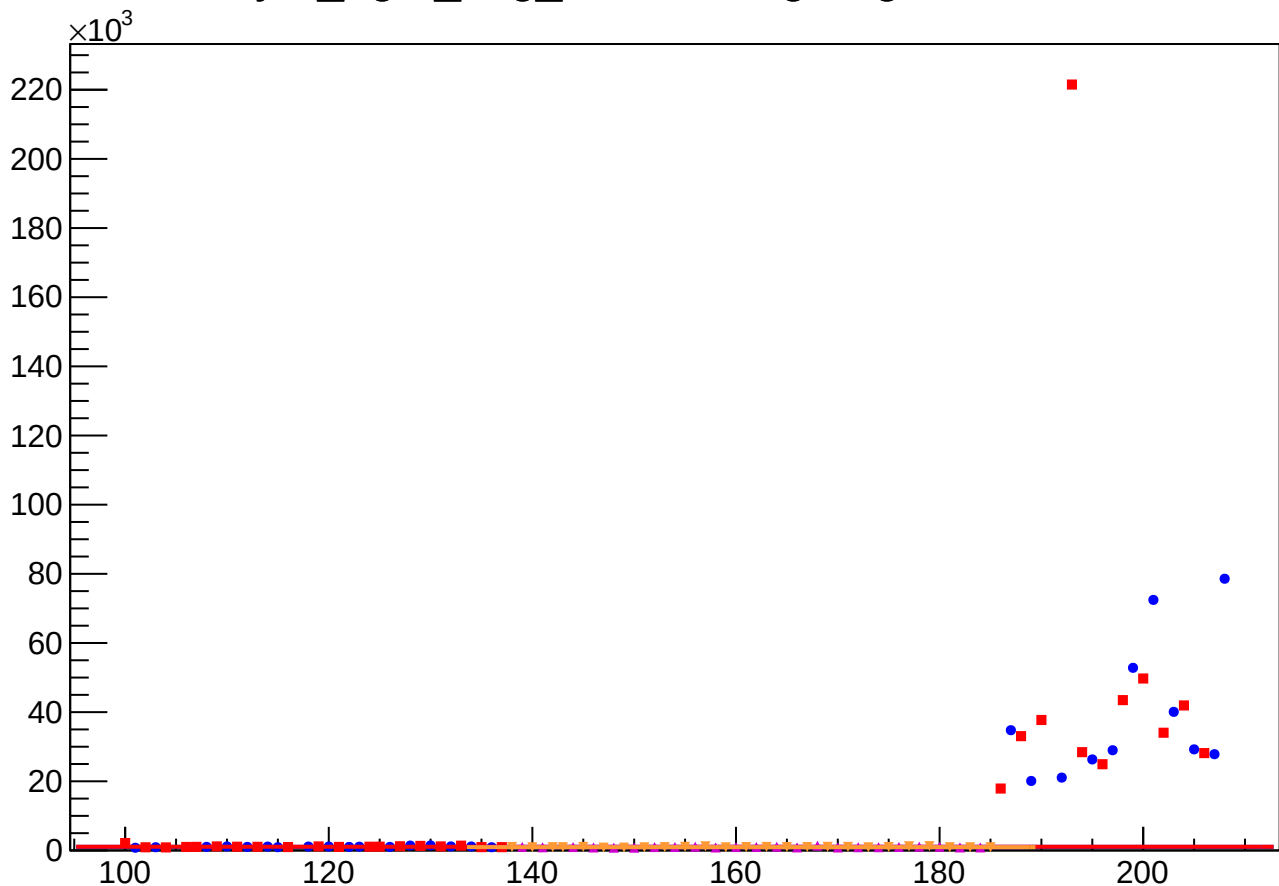
Right: 1493.294 $\pm$ 283.949 χ^2 /NDF: 45.6/56

In: 1217.271 $\pm$ 199.743 χ^2 /NDF:49.9/50

Out: 919.190 $\pm$ 196.529 χ^2 /NDF:45.9/53

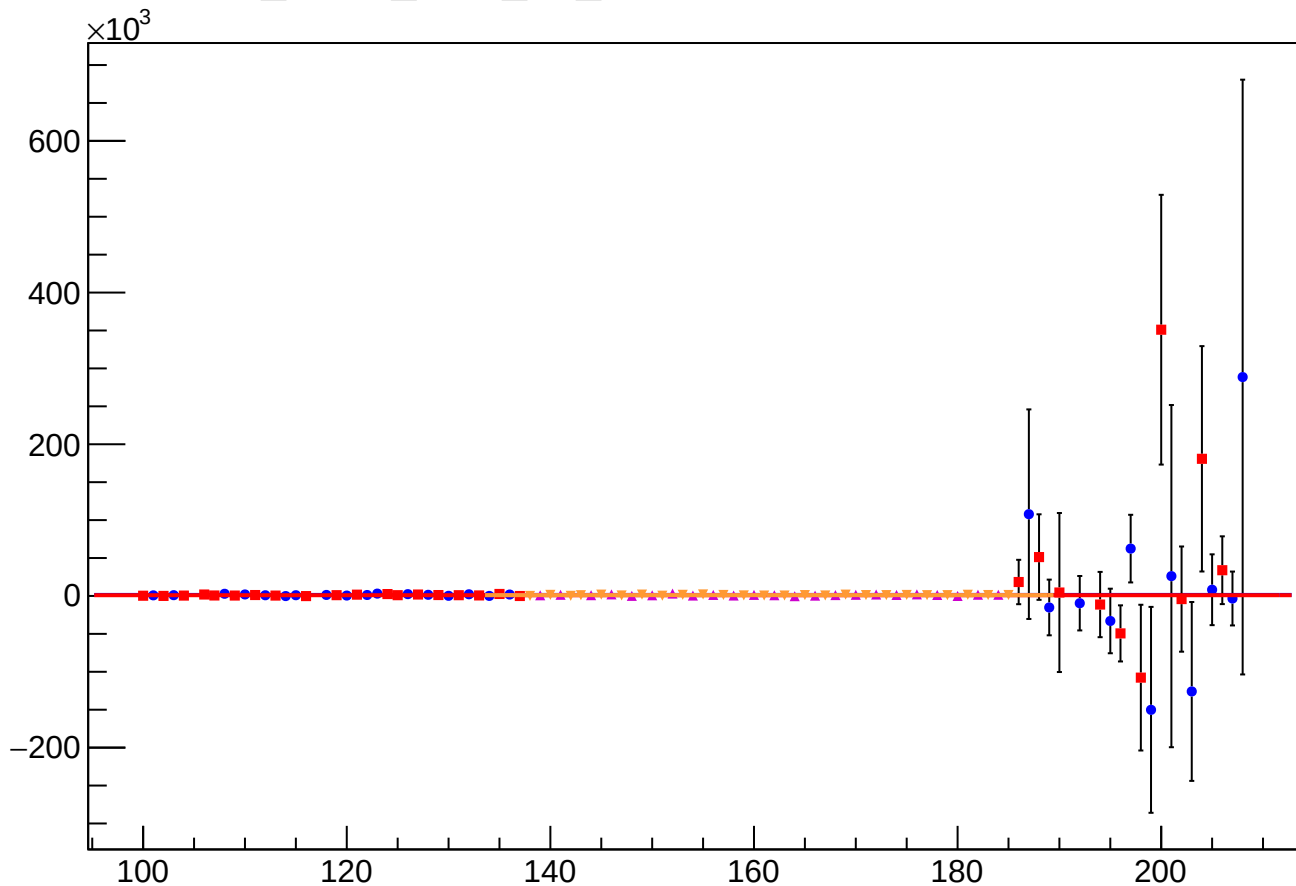
All: 1065.813 $\pm$ 140.089 χ^2 /NDF: 96.9/104

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1038.621+/-0.285	χ^2/NDF : 5895571.6/27	Left: 958.525+/-0.114	χ^2/NDF : 807449.1/47
Left Out: 962.256+/-0.159	χ^2/NDF : 362937.6/24	Right: 1055.947+/-0.201	χ^2/NDF : 11385418.9/57
Right Out: 1073.106+/-0.283	χ^2/NDF : 5482472.3/29	In: 975.321+/-0.141	χ^2/NDF : 6404579.3/50
Left In: 954.643+/-0.163	χ^2/NDF : 443395.0/22	Out: 988.935+/-0.139	χ^2/NDF : 5961693.3/54
		All: 982.238+/-0.099	χ^2/NDF : 12370993.5/10

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.488+/-218.833 χ^2/NDF : 18.4/27

Left Out: 1087.627+/-129.821 χ^2/NDF : 14.9/24

Right Out: 966.131+/-208.597 χ^2/NDF : 22.5/28

Left In: 1189.481+/-133.313 χ^2/NDF : 32.2/22

Left: 1137.202+/-93.008 χ^2/NDF : 47.4/47

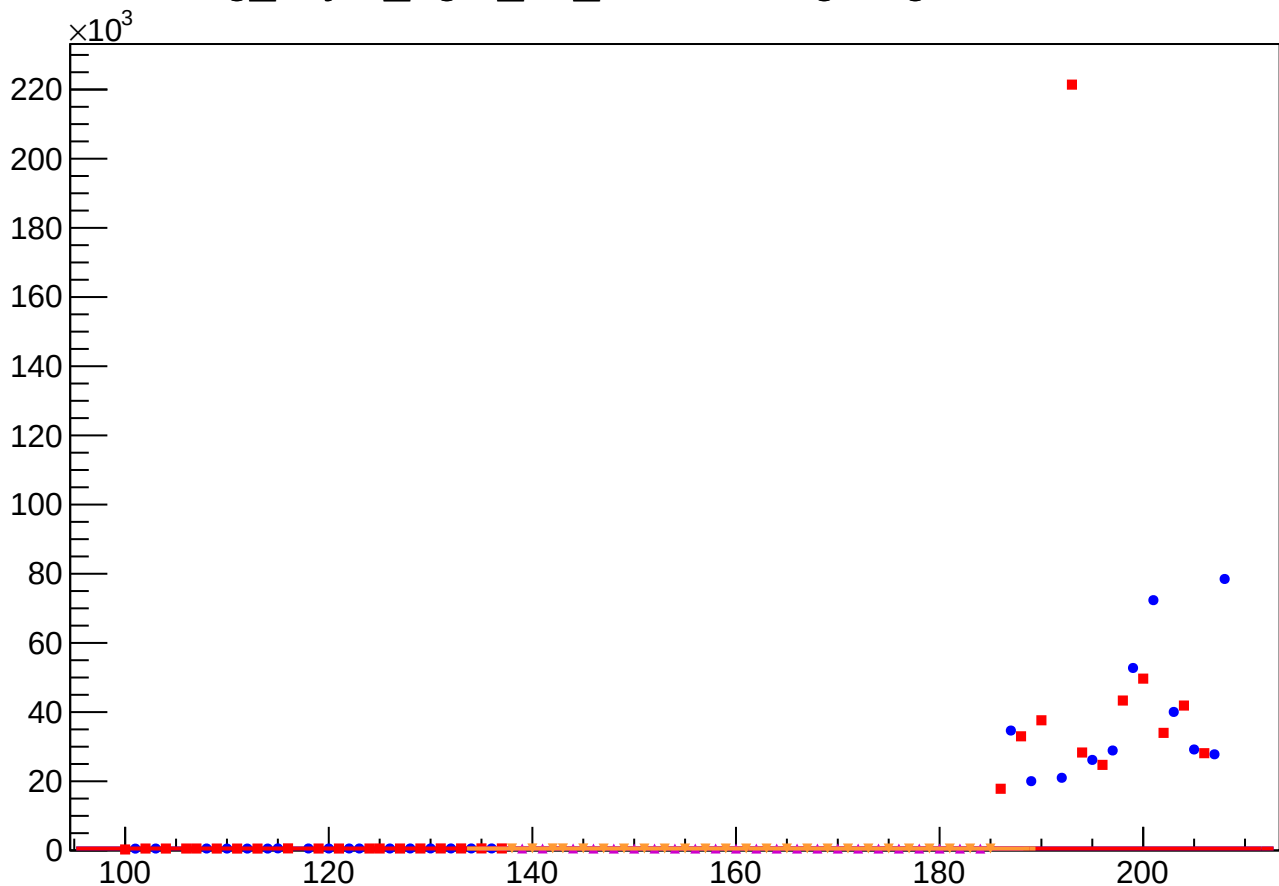
Right: 1146.253+/-150.990 χ^2/NDF : 42.4/56

In: 1231.437+/-113.851 χ^2/NDF : 50.9/50

Out: 1053.706+/-110.219 χ^2/NDF : 37.7/53

All: 1139.692+/-79.189 χ^2/NDF : 89.8/104

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.182 $\pm$ 0.155 χ^2 /NDF: 5759989.2/27

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

Right Out: 558.678 $\pm$ 0.148 χ^2 /NDF: 5570968.7/29

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

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

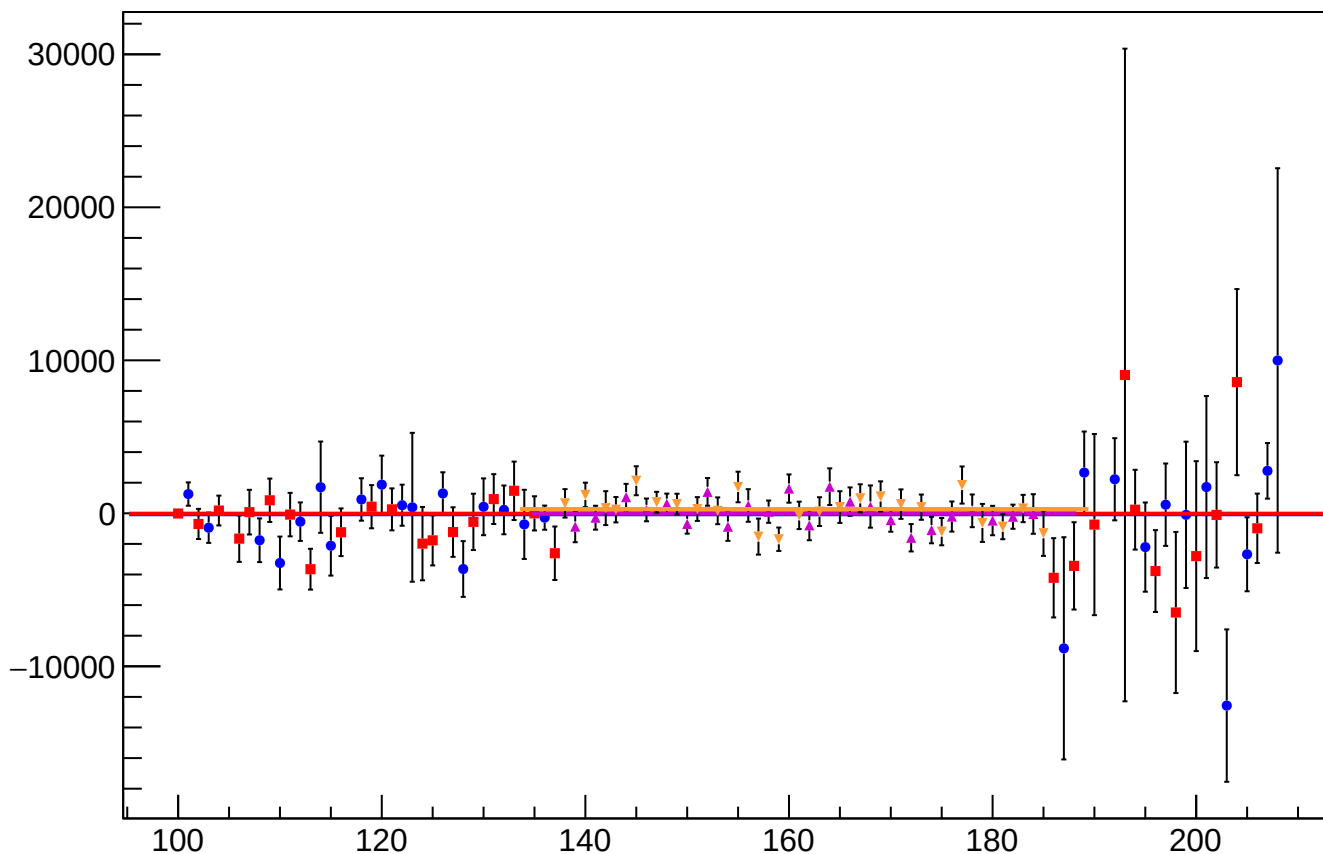
Right: 563.679 $\pm$ 0.107 χ^2 /NDF: 11333372.5/57

In: 560.733 $\pm$ 0.081 χ^2 /NDF: 5775354.8/50

Out: 558.261 $\pm$ 0.078 χ^2 /NDF: 5585765.0/54

All: 559.457 $\pm$ 0.056 χ^2 /NDF: 11361606.4/100

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -61.363 ± 309.803 χ^2/NDF : 31.5/27

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

Right Out: -22.806 ± 38.927 χ^2/NDF : 26.0/29

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

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

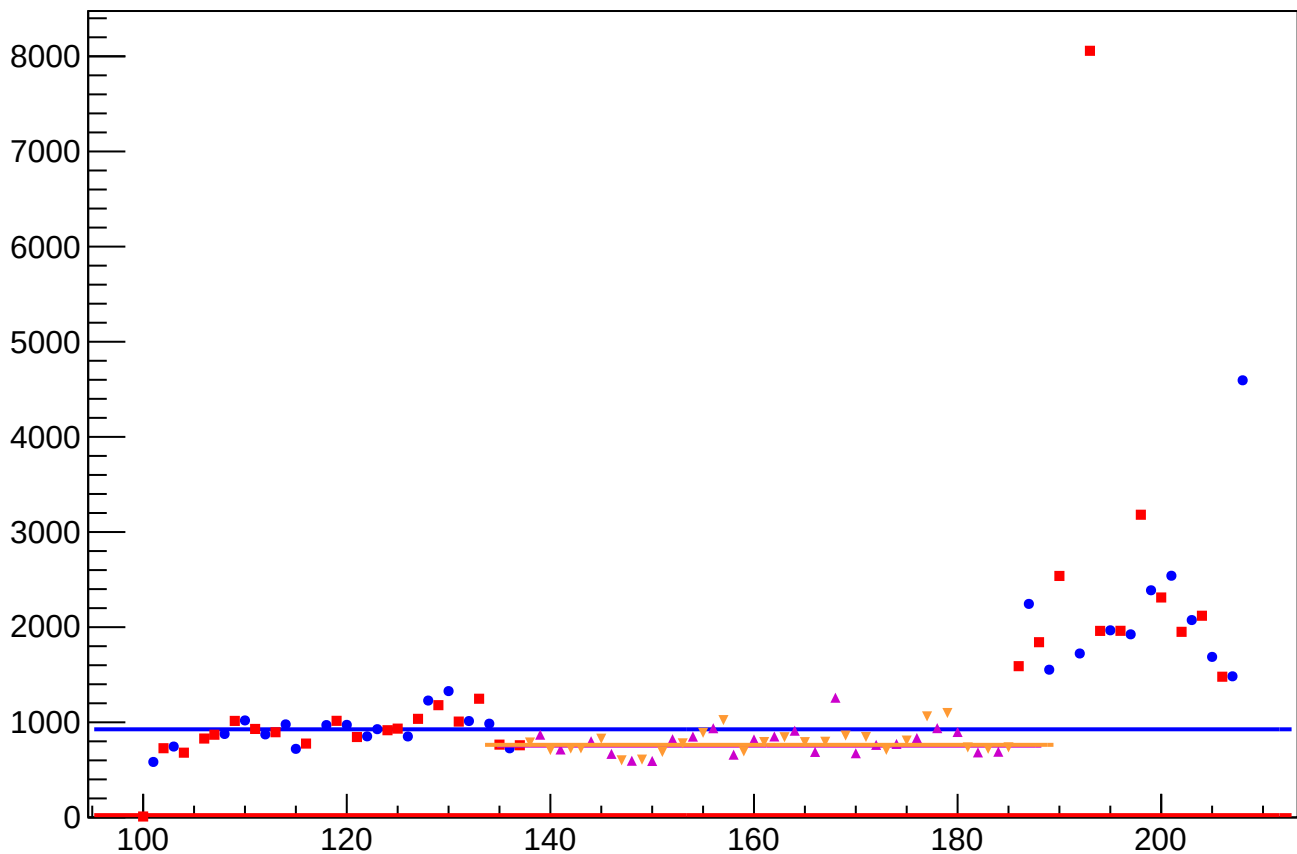
Right: -23.405 ± 38.623 χ^2/NDF : 57.5/57

In: -21.343 ± 157.866 χ^2/NDF : 51.6/50

Out: -9.283 ± 38.052 χ^2/NDF : 55.5/54

All: -9.945 ± 36.992 χ^2/NDF : 107.2/105

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 926.500 $\pm$ 0.219

χ^2 /NDF: 2683714.3/27

Left Out: 763.307 $\pm$ 0.128

χ^2 /NDF: 753728.9/24

Right Out: 24.468 $\pm$ 0.028

χ^2 /NDF: 20506278.2/29

Left In: 754.483 $\pm$ 0.130

χ^2 /NDF: 931536.8/22

Left: 758.967 $\pm$ 0.091

χ^2 /NDF: 1687616.8/47

Right: 38.488 $\pm$ 0.027

χ^2 /NDF: 39881750.4/57

In: 799.149 $\pm$ 0.112

χ^2 /NDF: 4071744.1/50

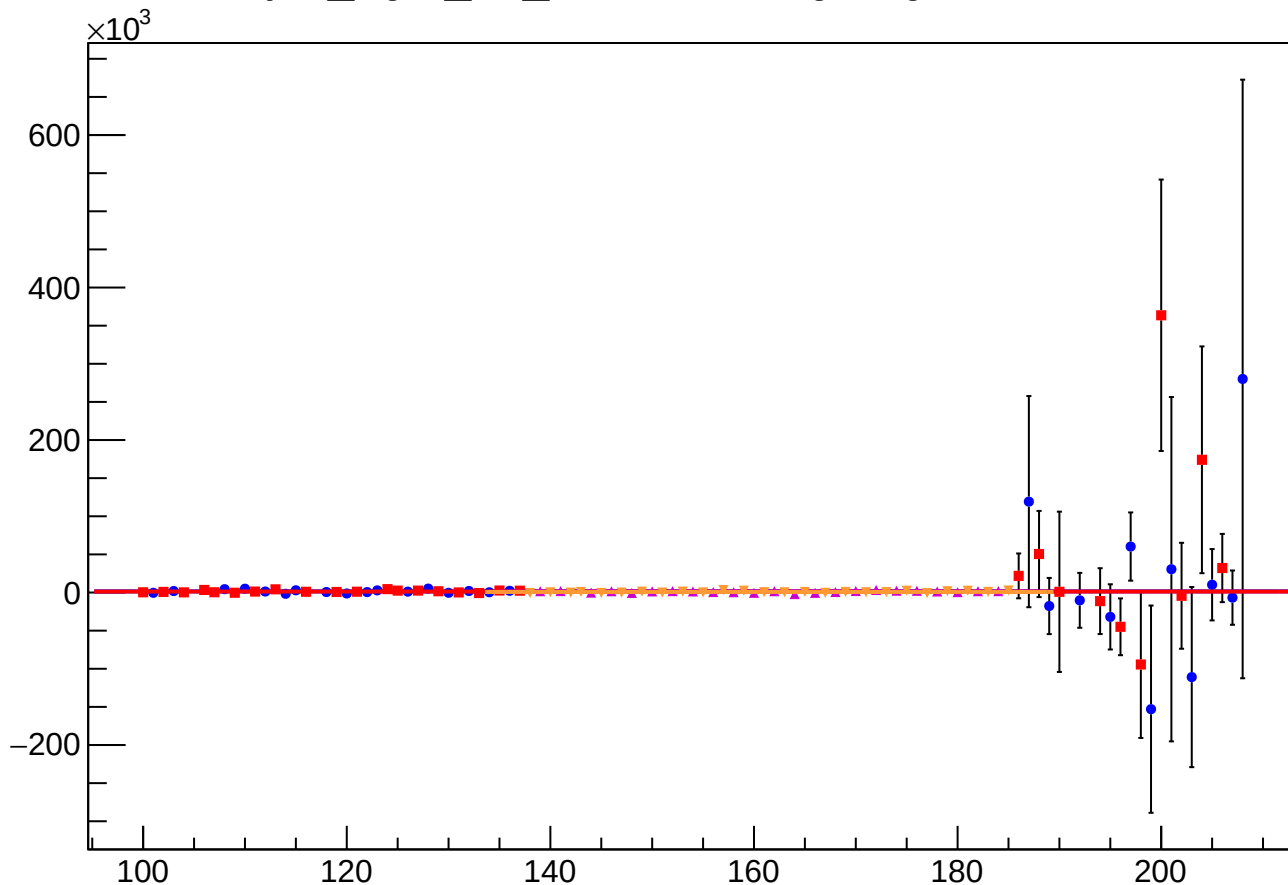
Out: 57.311 $\pm$ 0.027

χ^2 /NDF: 53288230.4/54

All: 98.045 $\pm$ 0.026

χ^2 /NDF: 99099323.6/105

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.826 $\pm$ 402.759 χ^2 /NDF: 24.0/27

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

Right Out: 1290.696 $\pm$ 376.580 χ^2 /NDF: 22.2/28

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

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

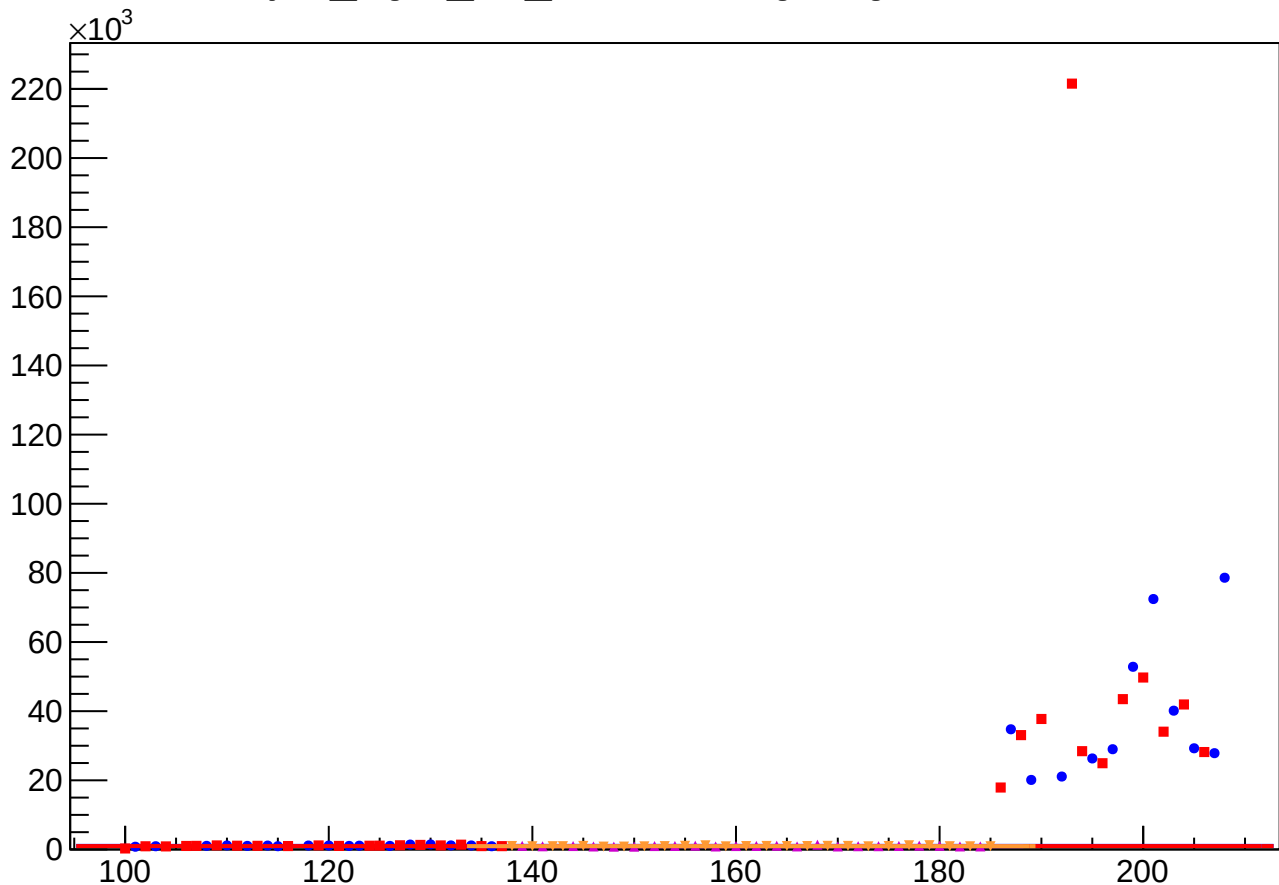
Right: 1395.707 $\pm$ 275.072 χ^2 /NDF: 46.4/56

In: 1259.911 $\pm$ 199.877 χ^2 /NDF:48.8/50

Out: 887.576 $\pm$ 193.566 χ^2 /NDF:44.0/53

All: 1067.772 $\pm$ 139.049 χ^2 /NDF: 94.6/104

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.203+/-0.285 χ^2/NDF : 5896307.2/27

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

Right Out: 977.630+/-0.266 χ^2/NDF : 6354710.1/29

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

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

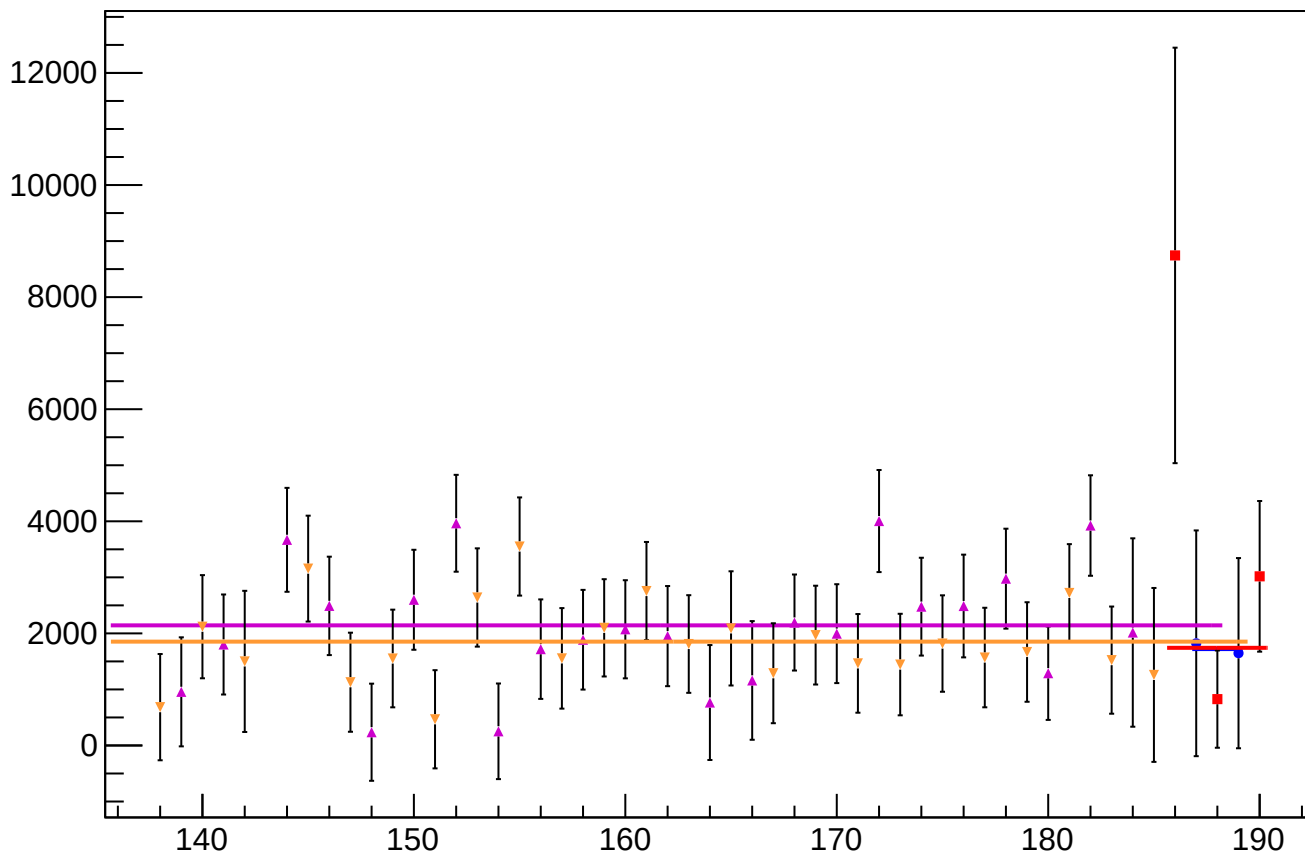
Right: 1006.350+/-0.195 χ^2/NDF : 12275958.1/57

In: 975.987+/-0.141 χ^2/NDF : 6404747.6/50

Out: 966.701+/-0.137 χ^2/NDF : 6719837.2/54

All: 971.195+/-0.098 χ^2/NDF : 13126812.7/10

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

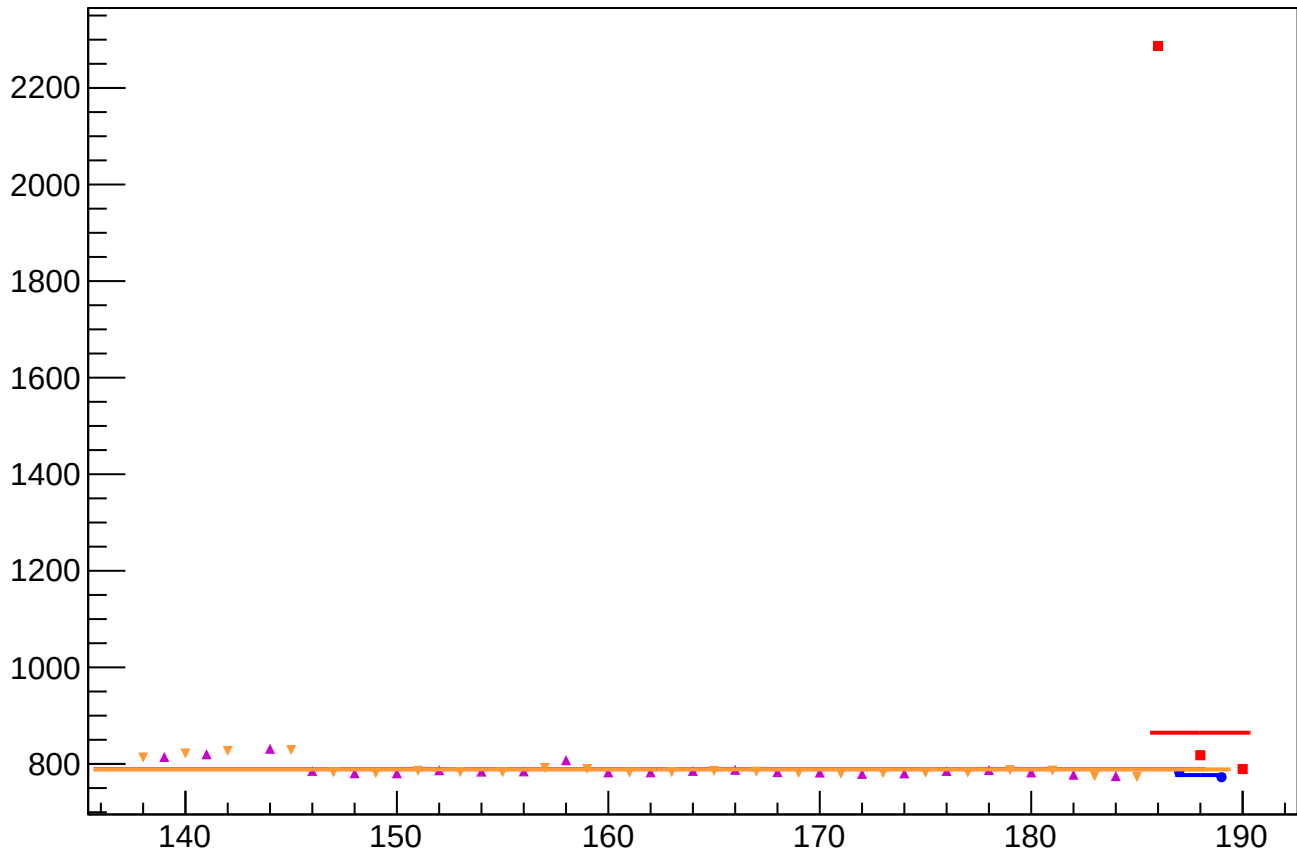
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

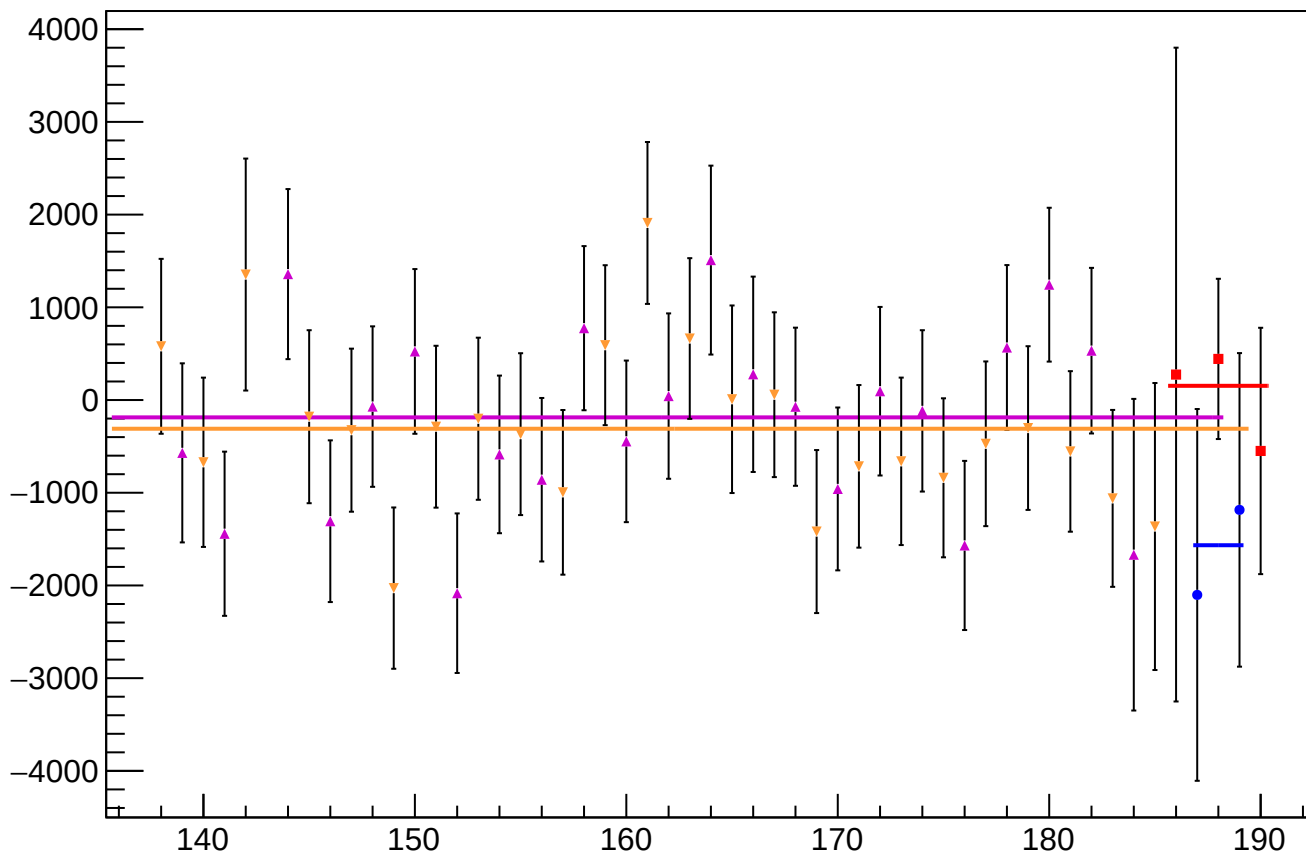
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

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

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

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

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

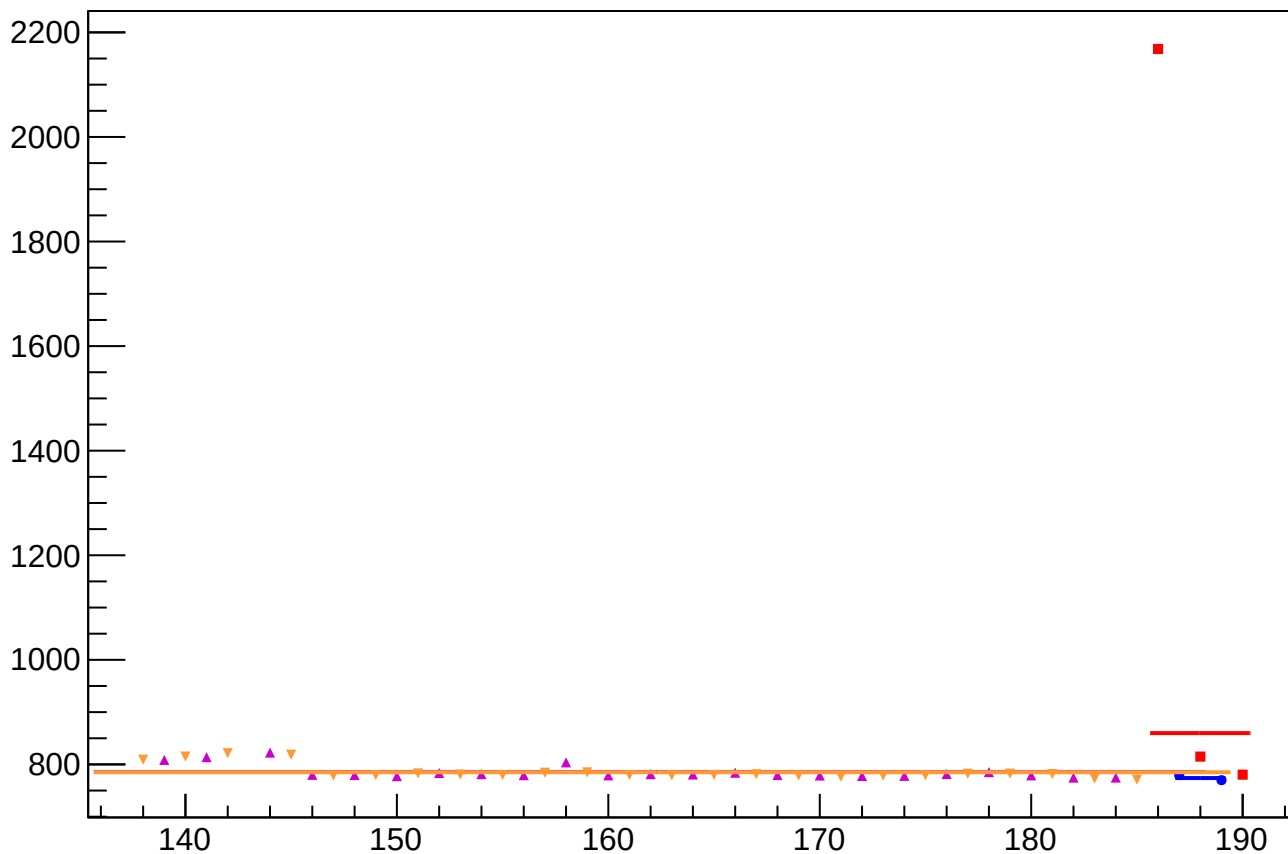
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

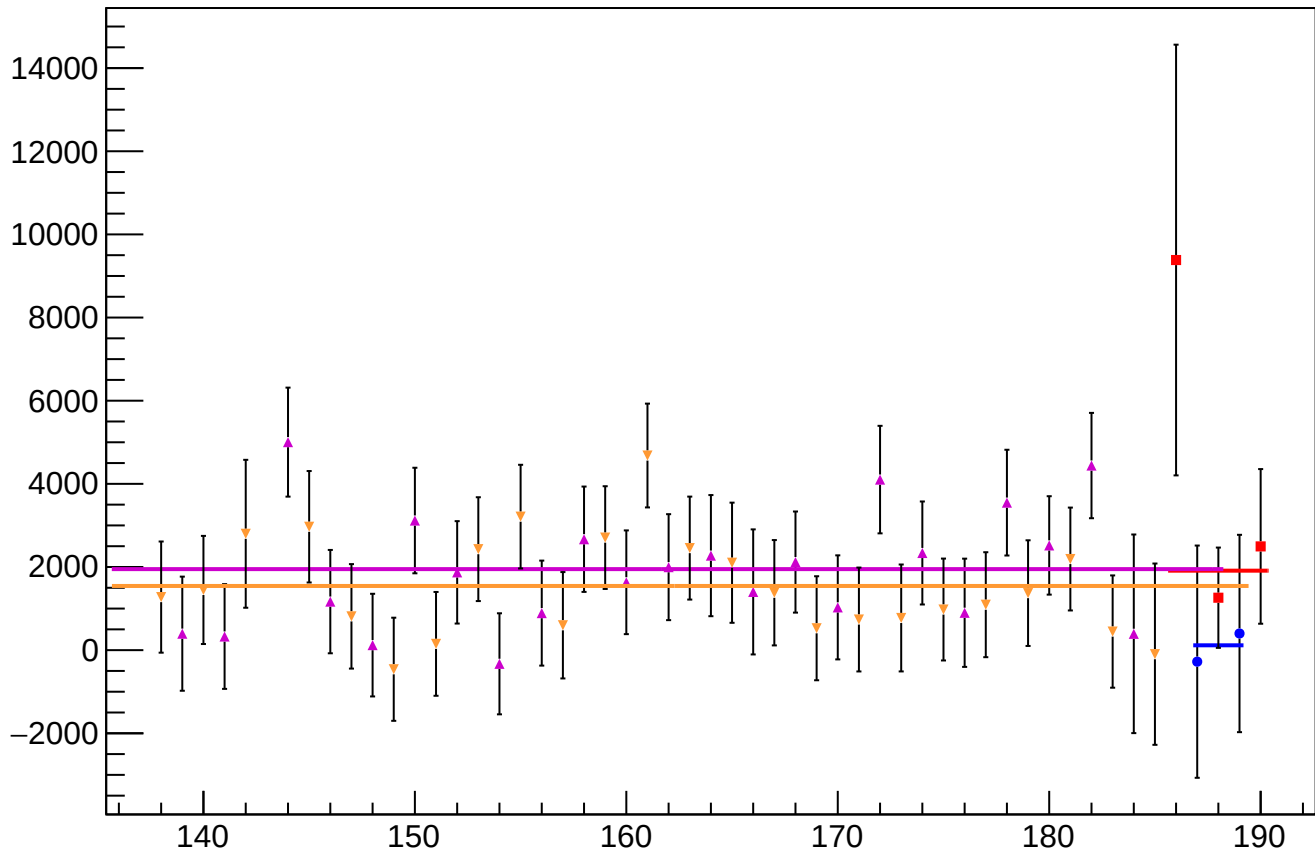
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

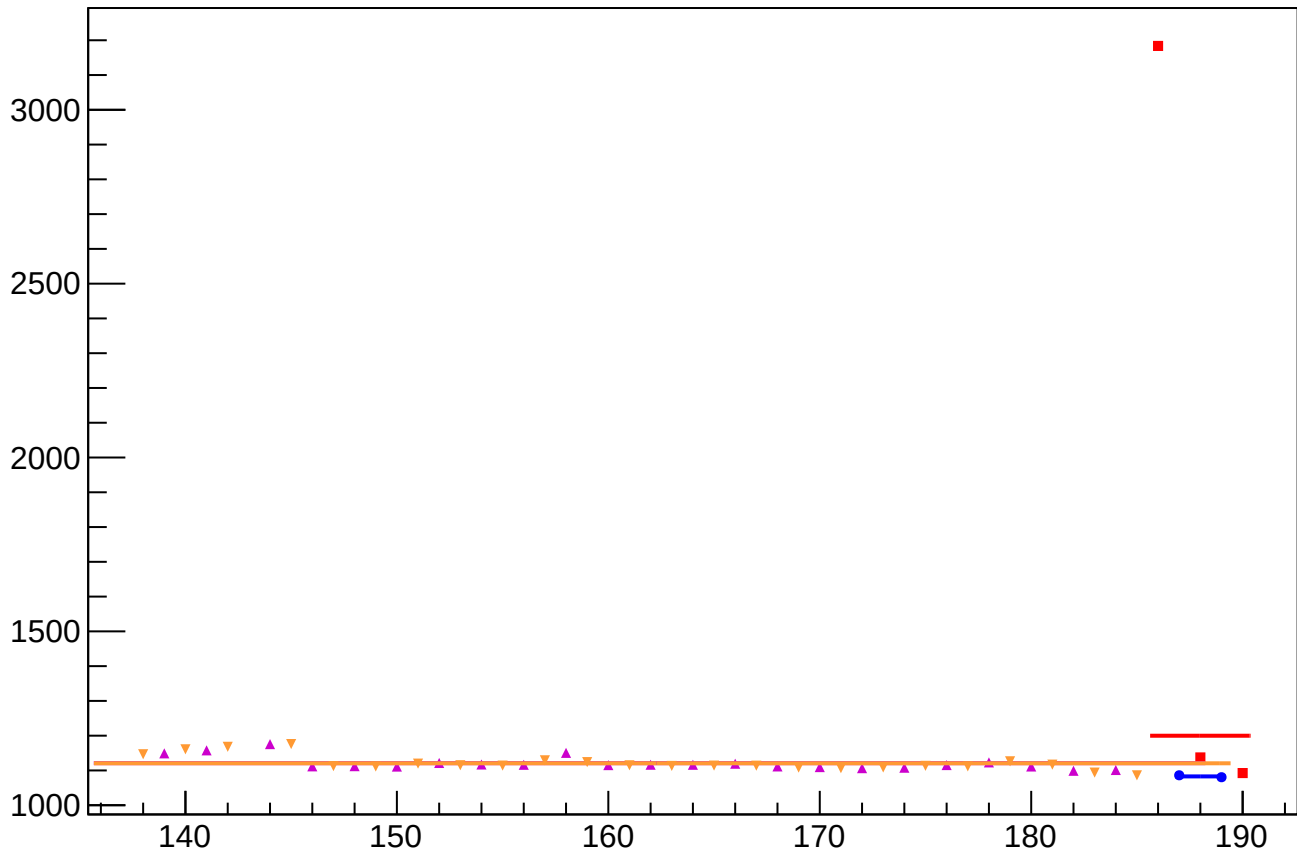
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866 $\pm$ 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

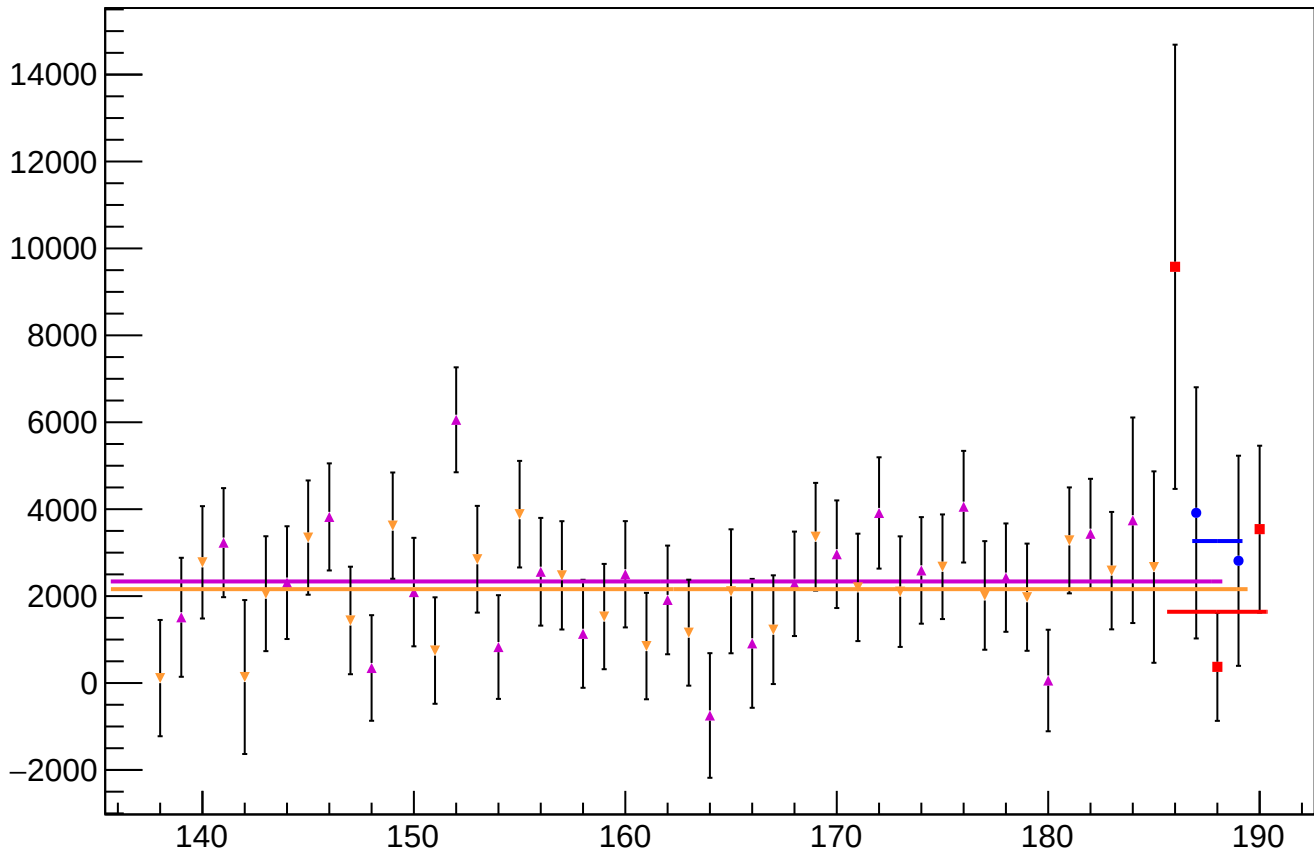
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

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

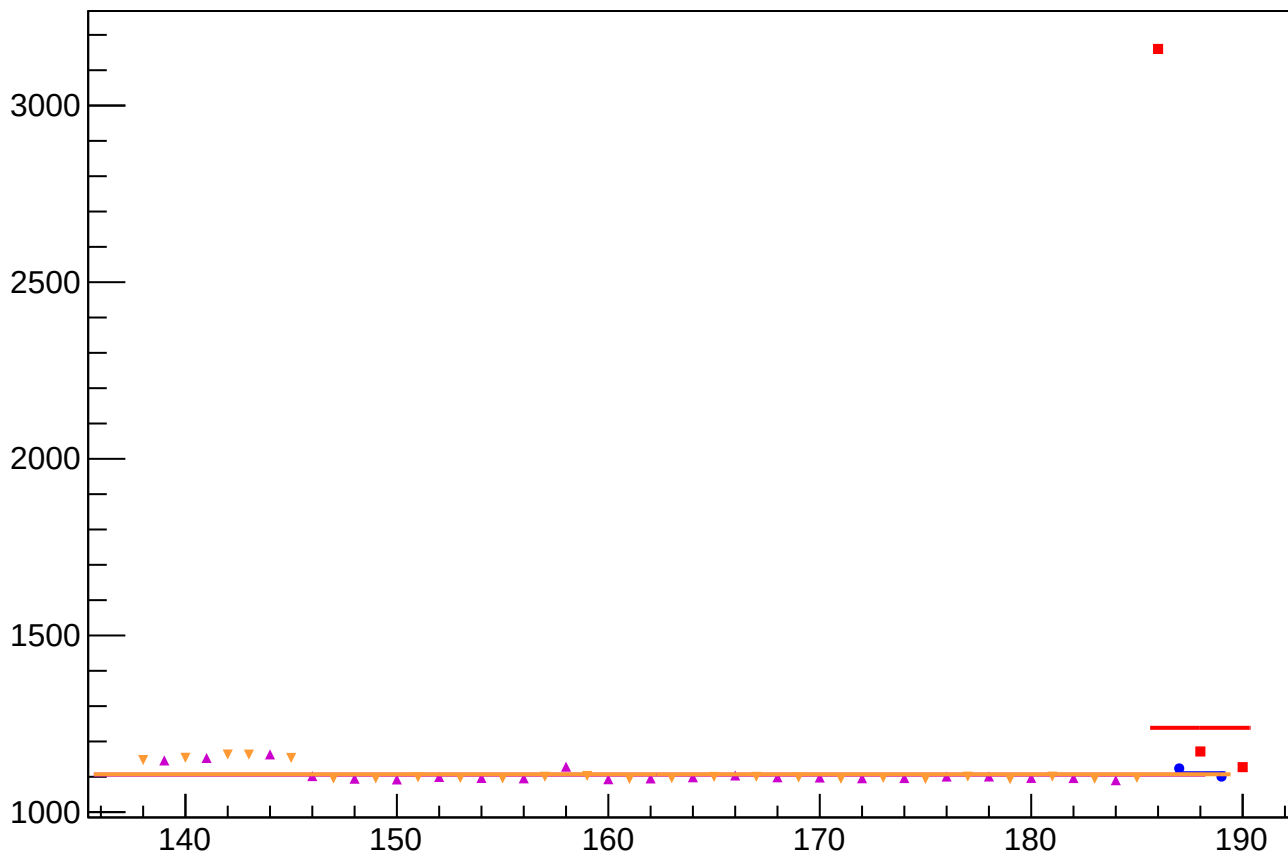
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

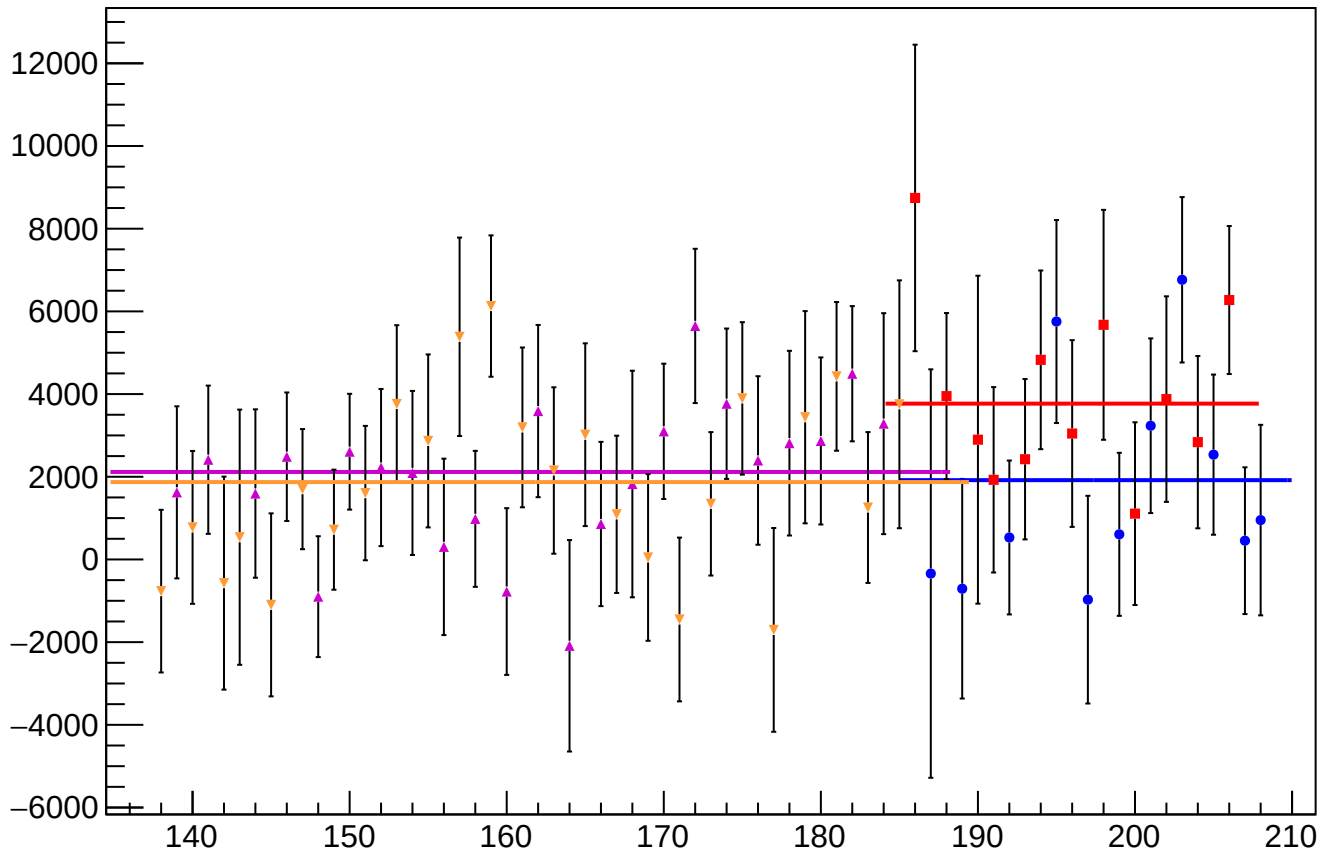
Right: 1208.687+/-0.633 χ^2 /NDF: 302689.7/4

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: 1918.150+/-659.453 χ^2/NDF : 13.2/10

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

Right Out: 3768.708+/-659.748 χ^2/NDF : 7.4/11

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

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

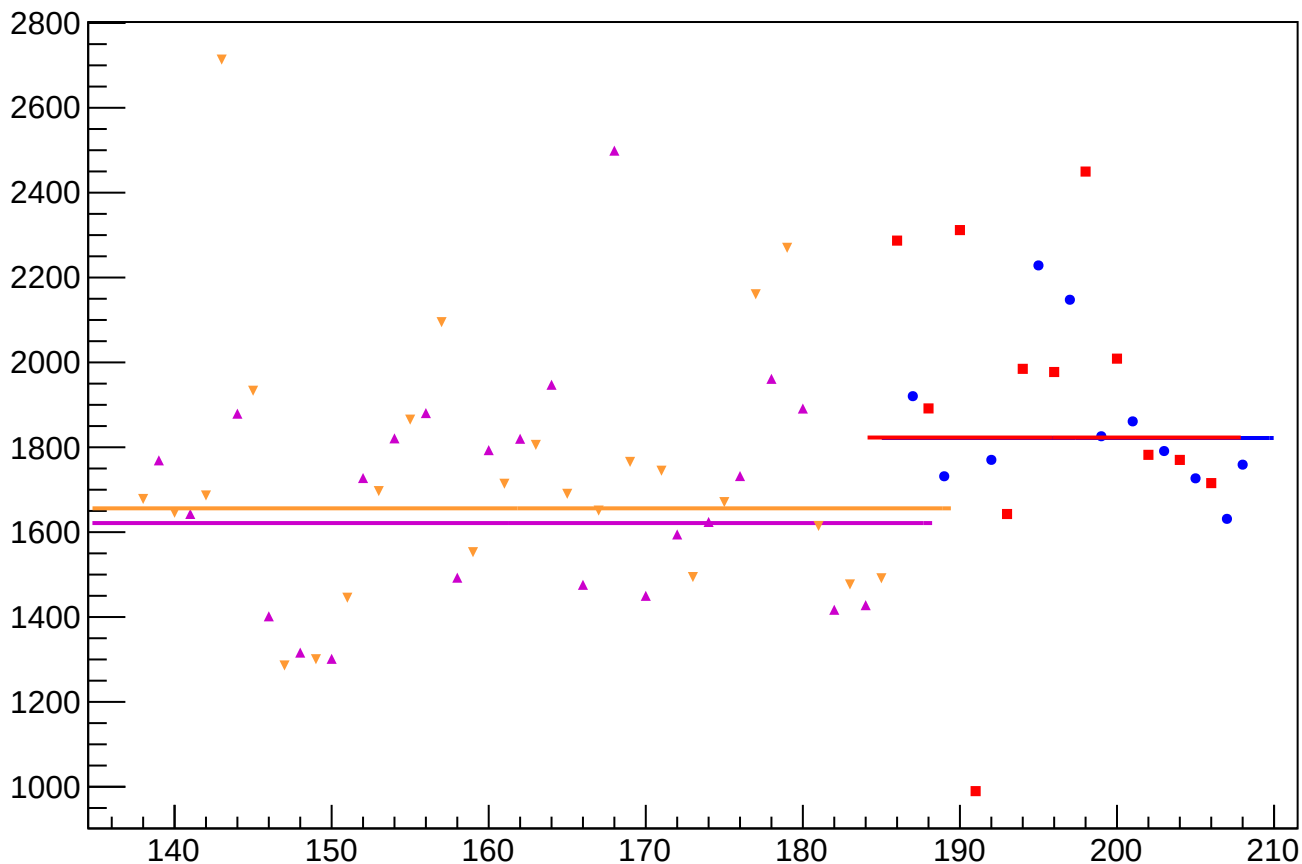
Right: 2843.015+/-466.408 χ^2/NDF : 24.5/22

In: 2064.233+/-337.594 χ^2/NDF : 32.0/33

Out: 2366.031+/-336.800 χ^2/NDF : 39.7/36

All: 2215.487+/-238.434 χ^2/NDF : 72.1/70

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1821.870 $\pm$ 0.466 χ^2 /NDF: 123678.0/10

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

Right Out: 1822.986 $\pm$ 0.467 χ^2 /NDF: 502848.0/11

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

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

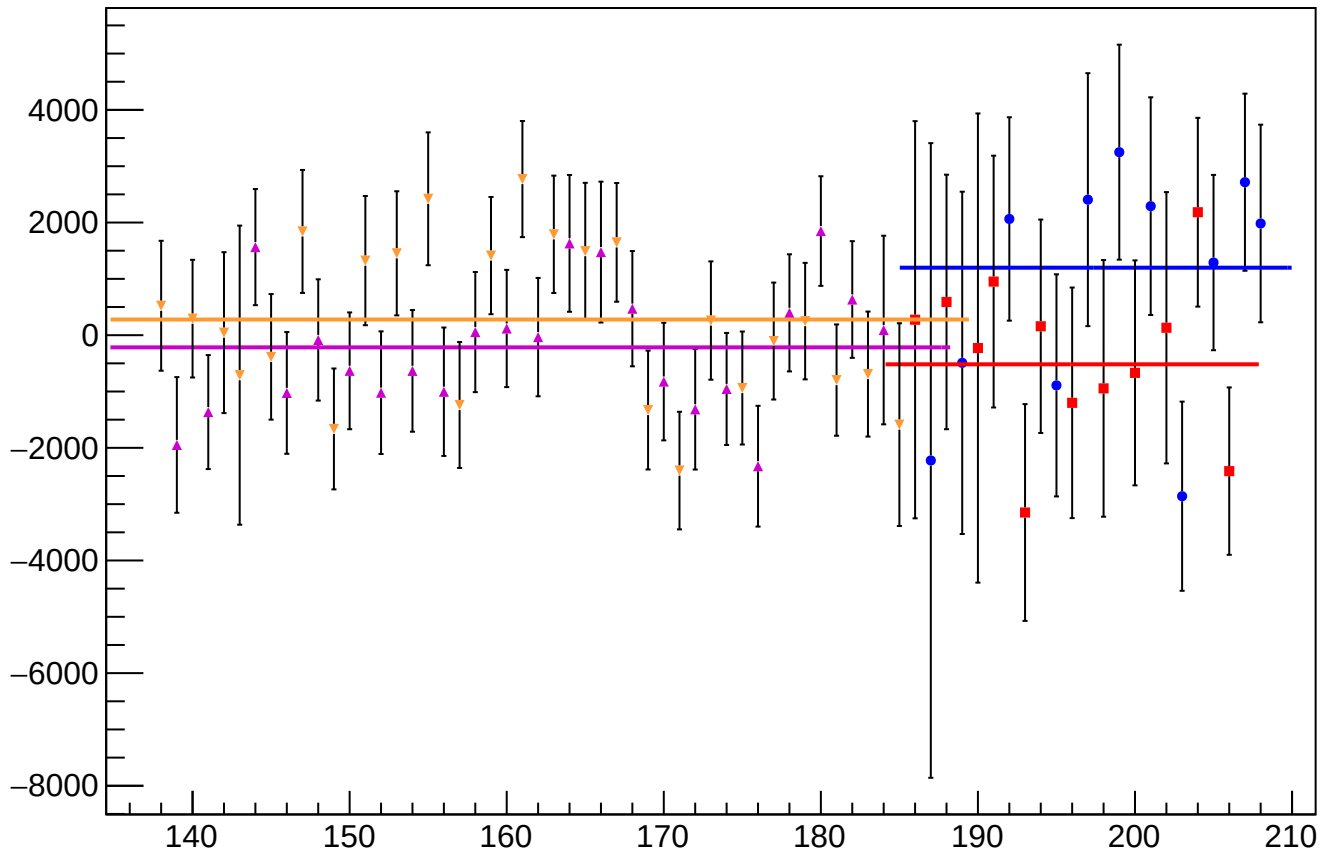
Right: 1822.427 $\pm$ 0.330 χ^2 /NDF: 626528.9/22

In: 1673.950 $\pm$ 0.239 χ^2 /NDF: 1035352.2/33

Out: 1699.606 $\pm$ 0.238 χ^2 /NDF: 1508020.3/36

All: 1686.808 $\pm$ 0.169 χ^2 /NDF: 2549161.5/70

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1198.430 ± 583.091 $\chi^2/\text{NDF}: 10.8/10$

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

Right Out: -517.032 ± 603.459 $\chi^2/\text{NDF}: 7.2/11$

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

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

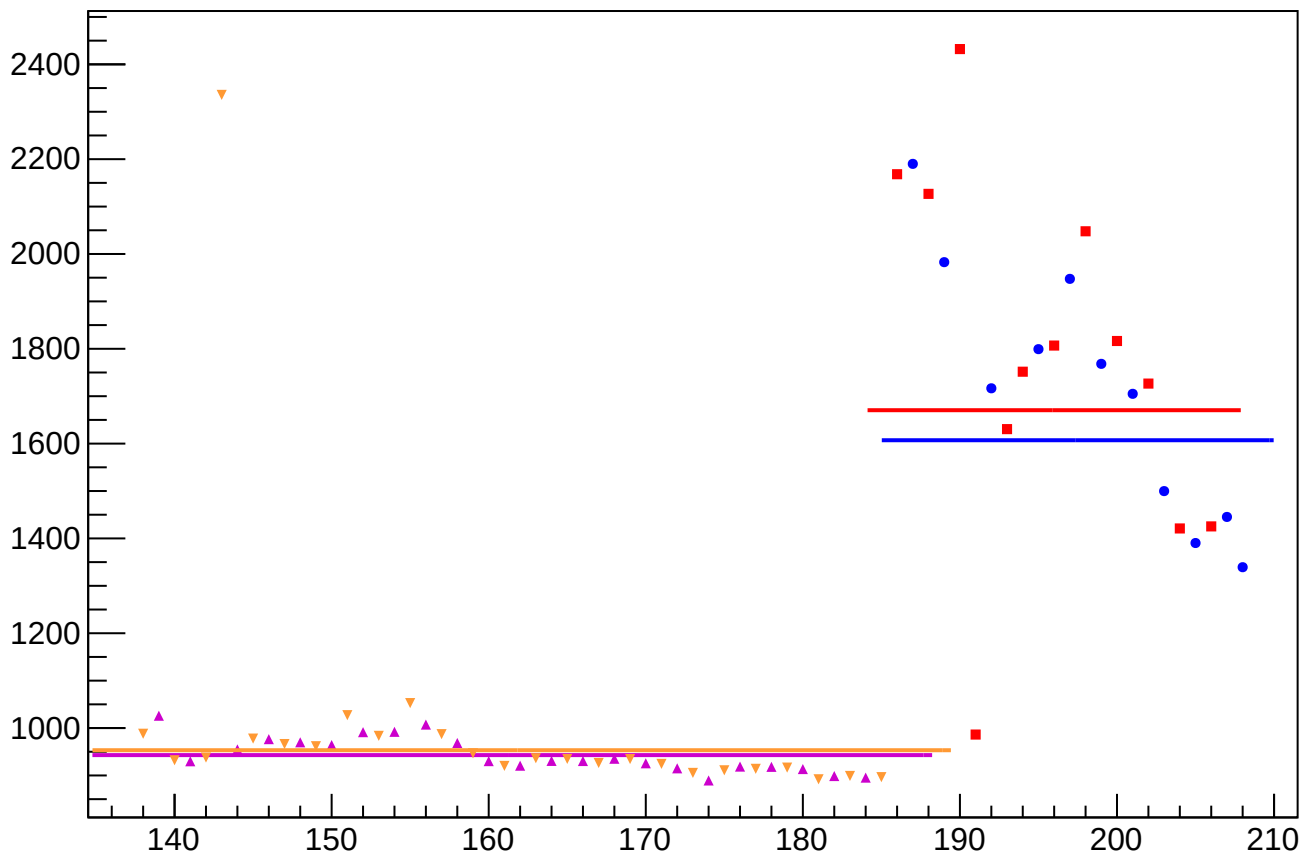
Right: 370.136 ± 419.323 $\chi^2/\text{NDF}: 22.1/22$

In: -31.941 ± 210.401 $\chi^2/\text{NDF}: 40.3/33$

Out: 182.118 ± 209.654 $\chi^2/\text{NDF}: 47.1/36$

All: 75.470 ± 148.511 $\chi^2/\text{NDF}: 87.9/70$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1607.111+/-0.412 χ^2/NDF : 258452.2/10

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

Right Out: 1670.460+/-0.427 χ^2/NDF : 554495.3/11

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

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

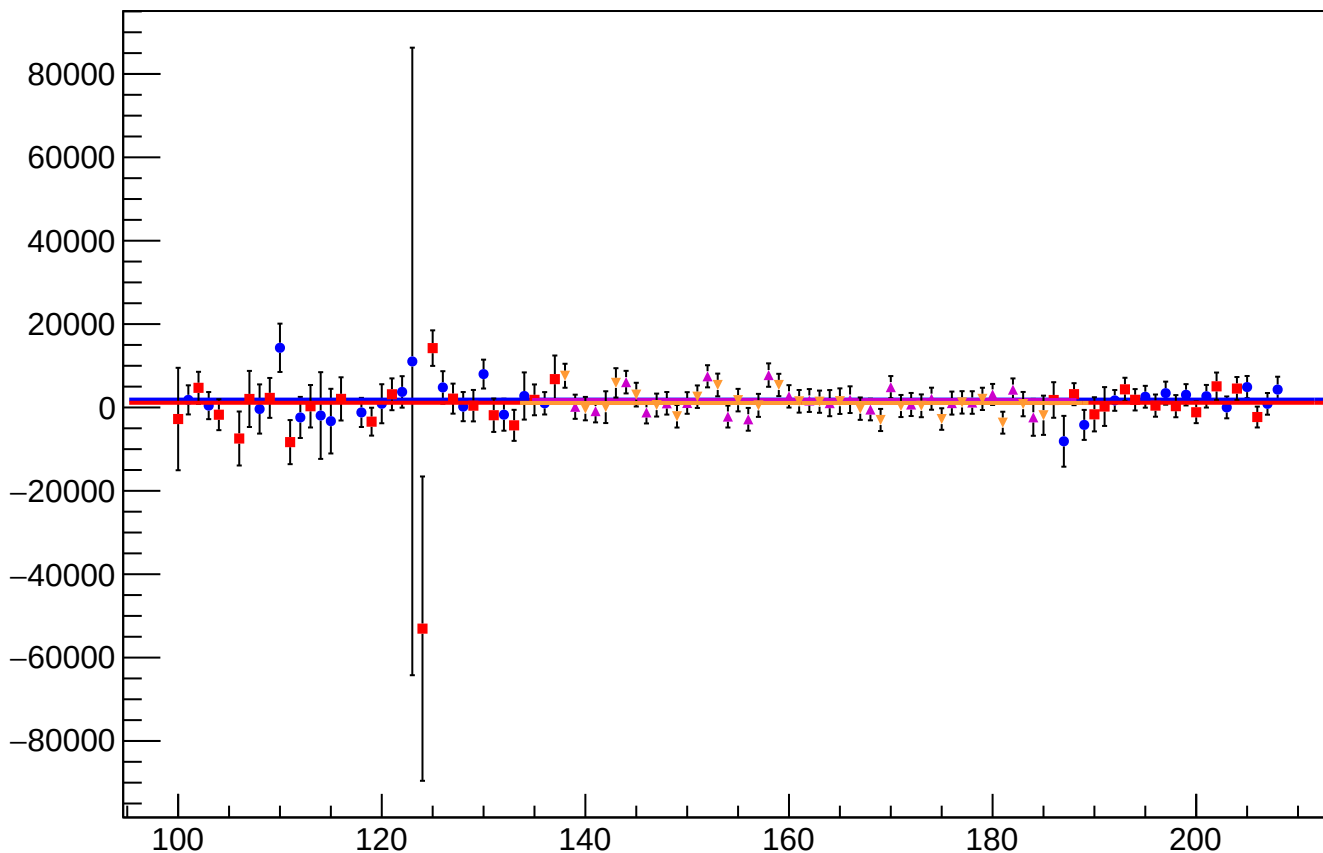
Right: 1637.699+/-0.297 χ^2/NDF : 824345.8/22

In: 1029.406+/-0.149 χ^2/NDF : 2563962.6/33

Out: 1039.792+/-0.148 χ^2/NDF : 3645044.8/36

All: 1034.618+/-0.105 χ^2/NDF : 6211453.0/70

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1886.333 $\pm$ 653.682 χ^2 /NDF: 21.1/27

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

Right Out: 1126.282 $\pm$ 653.147 χ^2 /NDF: 32.5/30

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

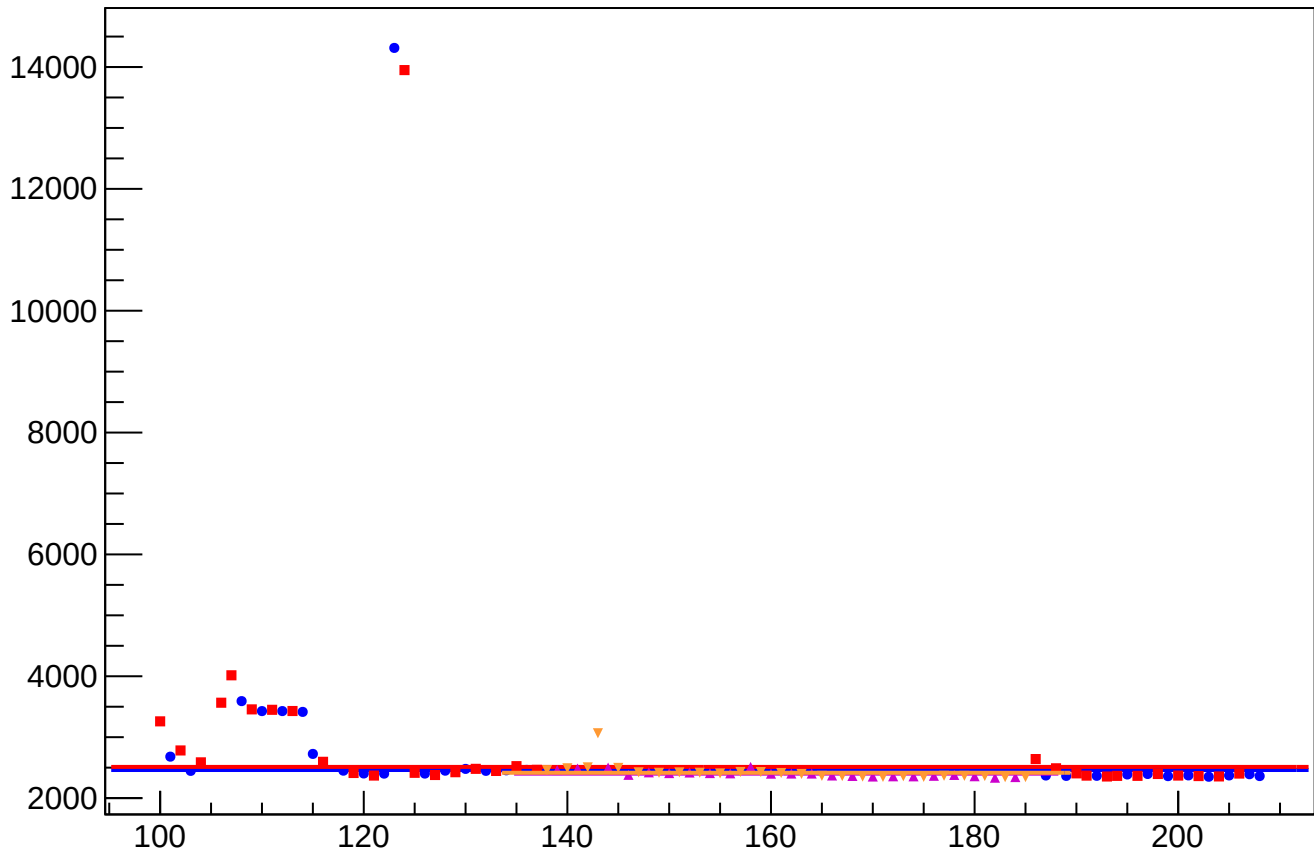
Right: 1505.996 $\pm$ 462.034 χ^2 /NDF: 54.2/58

In: 1824.834 $\pm$ 432.117 χ^2 /NDF: 45.1/50

Out: 1098.655 $\pm$ 426.877 χ^2 /NDF: 56.1/55

All: 1457.314 $\pm$ 303.683 χ^2 /NDF: 102.7/106

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2461.225+/-0.462 χ^2/NDF : 306227.8/27

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

Right Out: 2512.040+/-0.462 χ^2/NDF : 632089.8/30

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

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

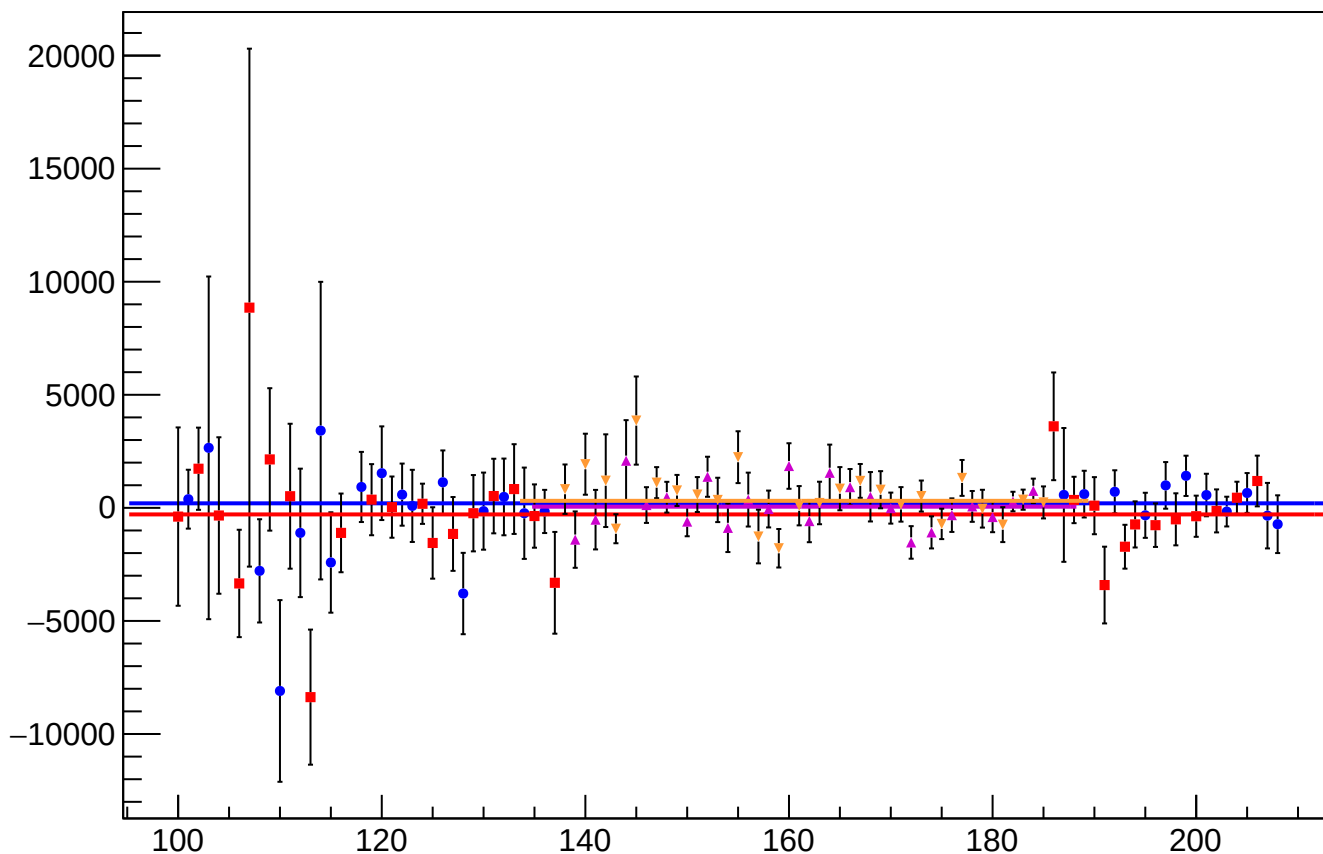
Right: 2486.654+/-0.327 χ^2/NDF : 944365.5/58

In: 2427.555+/-0.306 χ^2/NDF : 329400.1/50

Out: 2457.035+/-0.302 χ^2/NDF : 739487.5/55

All: 2442.475+/-0.215 χ^2/NDF : 1073598.7/10

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 200.549 $\pm$ 243.845 χ^2/NDF : 18.9/27

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

Right Out: -289.882 $\pm$ 242.442 χ^2/NDF : 27.6/30

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

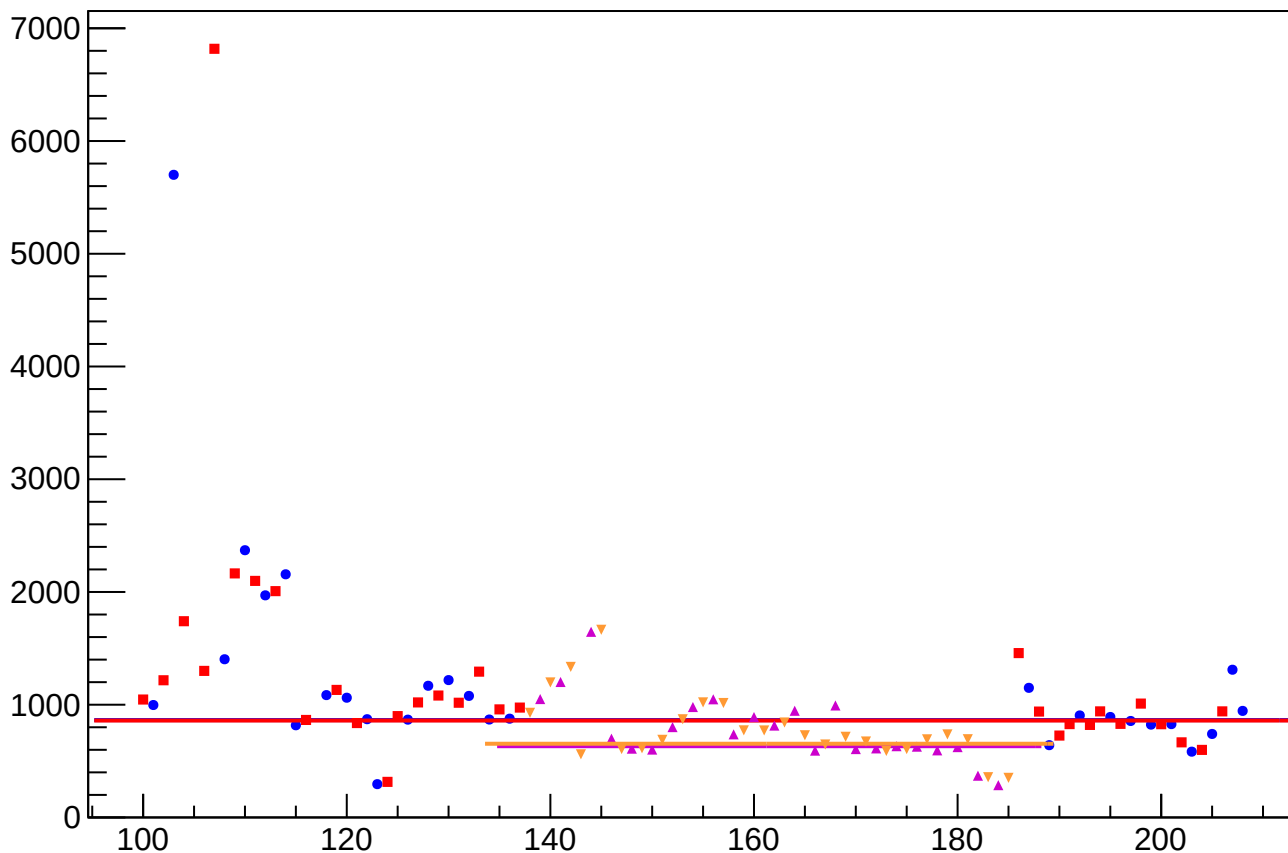
Right: -46.082 $\pm$ 171.926 χ^2/NDF : 48.5/58

In: 97.009 $\pm$ 134.788 χ^2/NDF : 43.0/50

Out: 127.574 $\pm$ 133.918 χ^2/NDF : 61.6/55

All: 112.390 $\pm$ 95.000 χ^2/NDF : 104.6/106

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 863.665 $\pm$ 0.172 χ^2 /NDF: 2823910.2/27

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

Right Out: 859.752 $\pm$ 0.171 χ^2 /NDF: 3331877.4/30

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

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

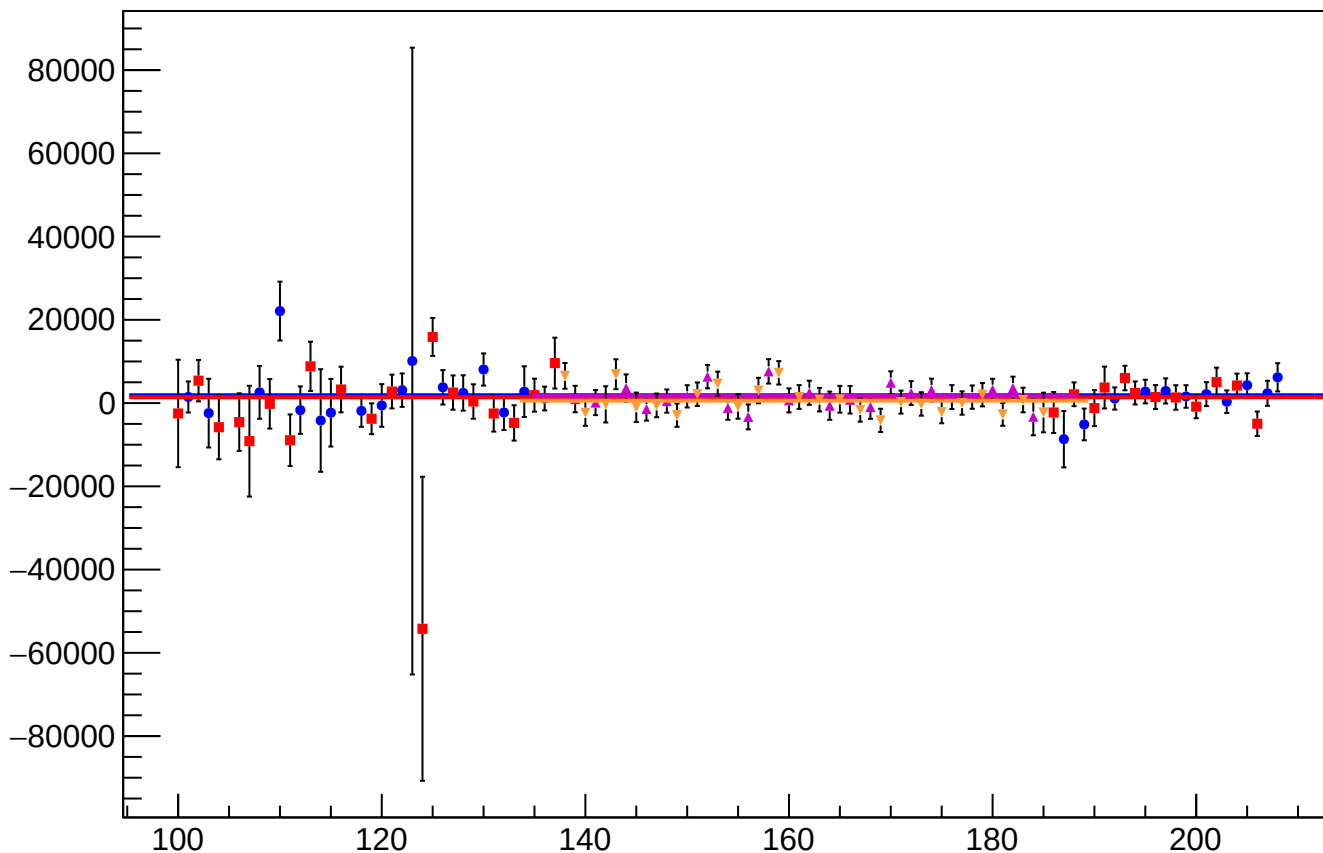
Right: 861.697 $\pm$ 0.122 χ^2 /NDF: 6156046.7/58

In: 702.821 $\pm$ 0.095 χ^2 /NDF:8019823.8/50

Out: 716.641 $\pm$ 0.095 χ^2 /NDF:7589454.5/55

All: 709.775 $\pm$ 0.067 χ^2 /NDF: 15619858.8/10

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1881.426+/-722.523 χ^2/NDF : 23.3/27

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

Right Out: 1417.065+/-726.252 χ^2/NDF : 38.1/30

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

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

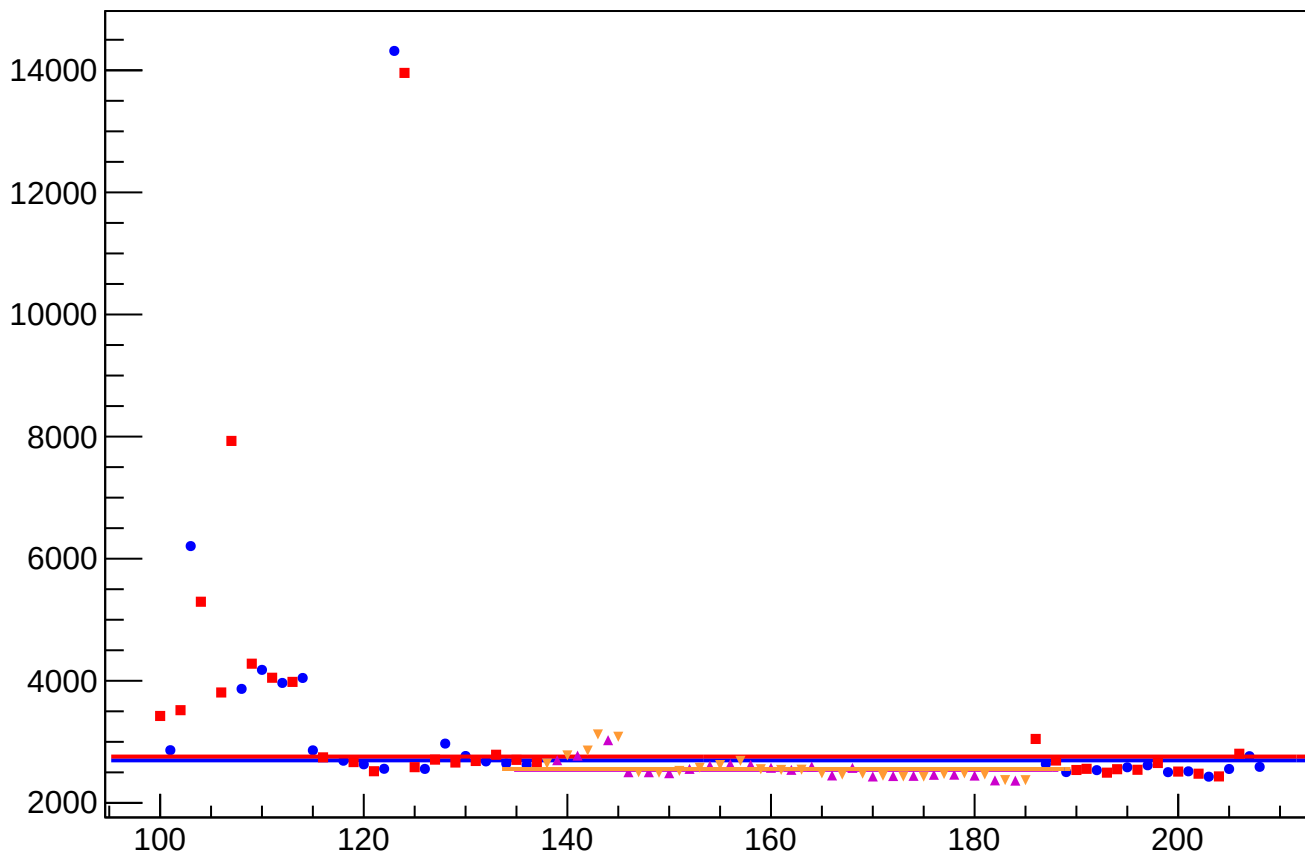
Right: 1650.441+/-512.214 χ^2/NDF : 61.6/58

In: 1763.593+/-466.149 χ^2/NDF : 41.5/50

Out: 918.184+/-461.262 χ^2/NDF : 64.2/55

All: 1336.433+/-327.875 χ^2/NDF : 107.4/106

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2696.839+/-0.511 χ^2/NDF : 771380.6/27

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

Right Out: 2758.933+/-0.514 χ^2/NDF : 1234221.4/30

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

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

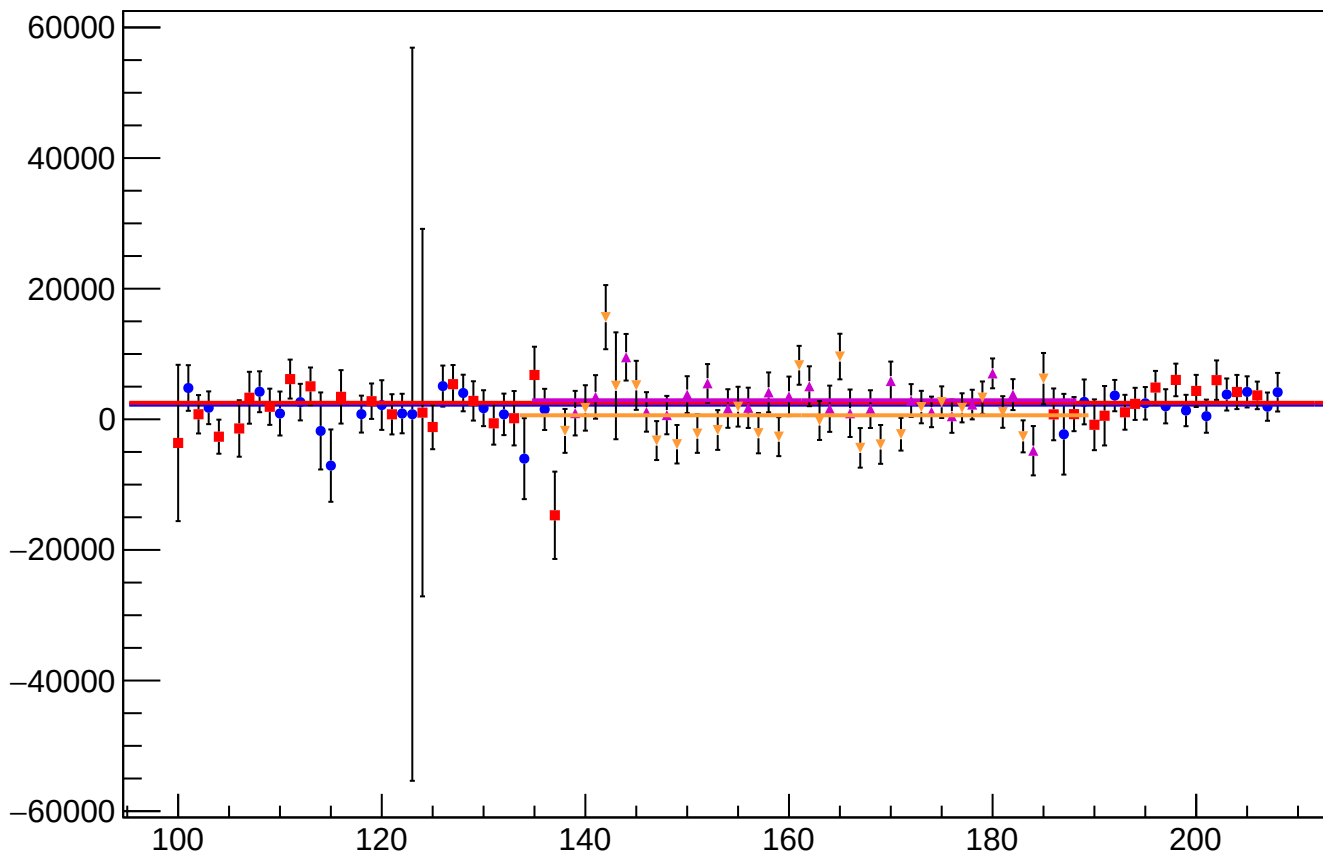
Right: 2727.726+/-0.362 χ^2/NDF : 2012949.8/58

In: 2605.860+/-0.330 χ^2/NDF : 920459.9/50

Out: 2637.430+/-0.326 χ^2/NDF : 1482793.7/55

All: 2621.811+/-0.232 χ^2/NDF : 2407888.8/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2242.489+/-567.766 χ^2/NDF : 11.3/27

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

Right Out: 2526.411+/-560.540 χ^2/NDF : 26.4/30

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

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

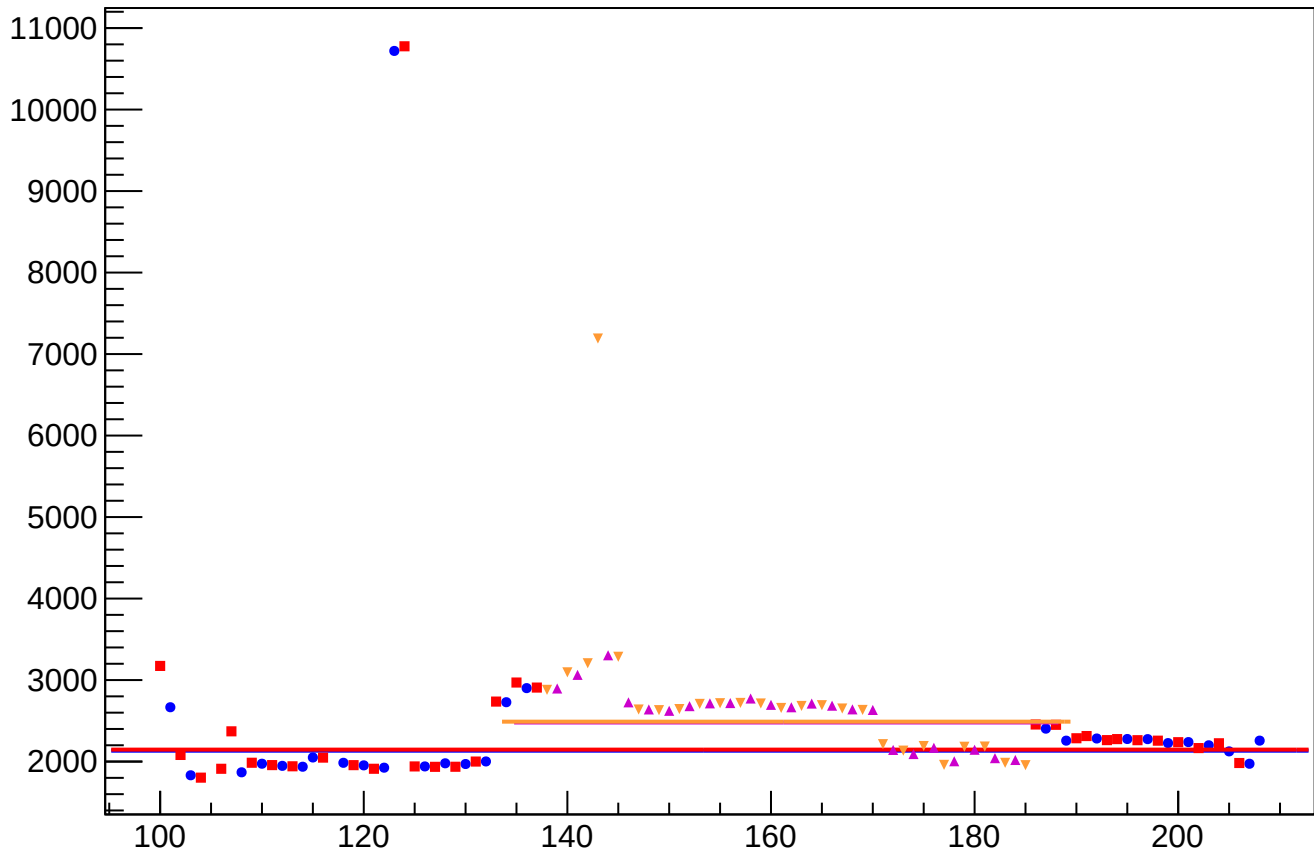
Right: 2386.269+/-398.892 χ^2/NDF : 37.8/58

In: 2557.593+/-412.290 χ^2/NDF : 29.3/50

Out: 1621.406+/-406.752 χ^2/NDF : 77.1/55

All: 2083.169+/-289.555 χ^2/NDF : 109.0/106

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2133.262 $\pm$ 0.401 χ^2 /NDF: 382713.1/27

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

Right Out: 2146.520 $\pm$ 0.396 χ^2 /NDF: 547033.7/30

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

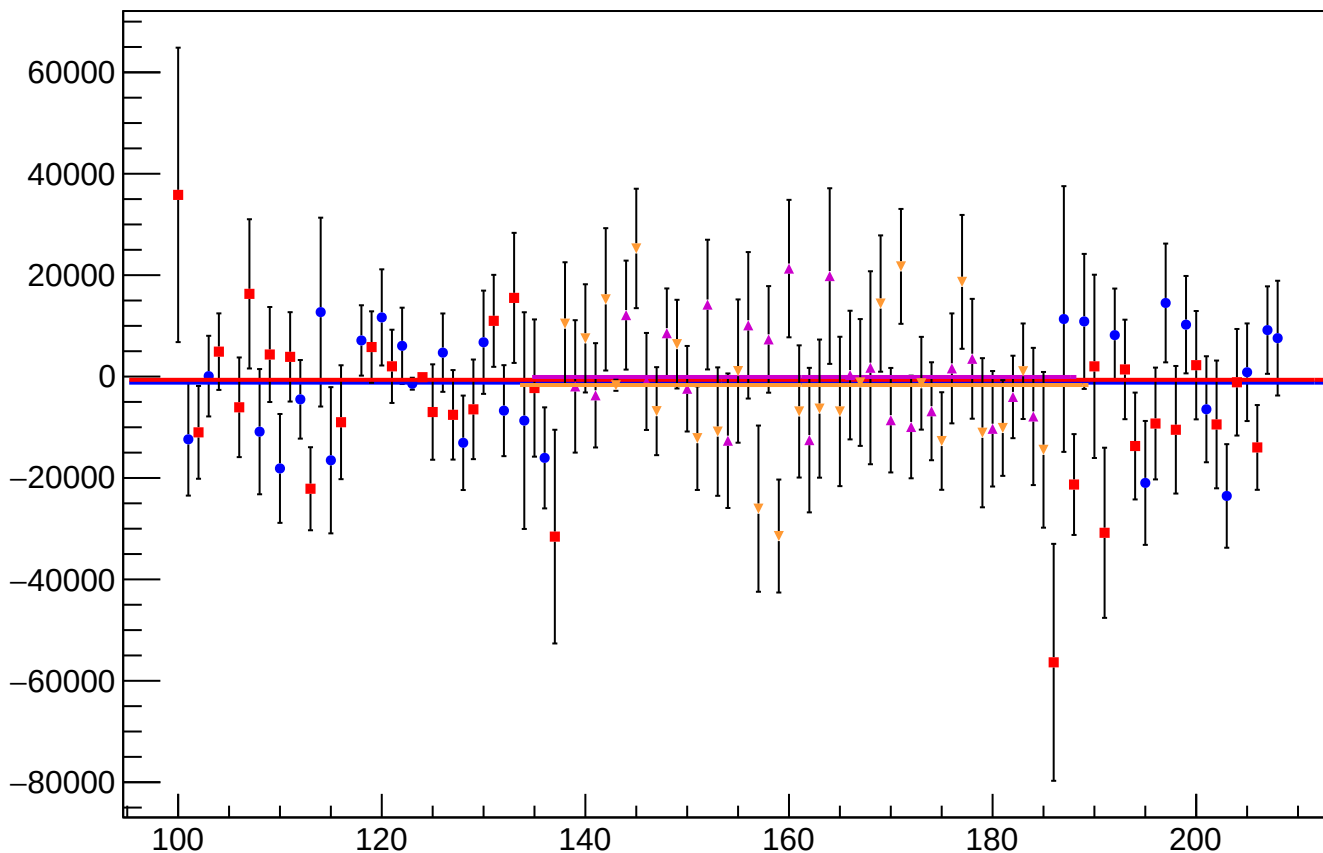
Right: 2139.976 $\pm$ 0.282 χ^2 /NDF: 930299.1/58

In: 2296.853 $\pm$ 0.292 χ^2 /NDF: 1402378.2/50

Out: 2308.937 $\pm$ 0.288 χ^2 /NDF: 2265900.4/55

All: 2302.977 $\pm$ 0.205 χ^2 /NDF: 3669149.2/10

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1198.134+/-1003.217 χ^2/NDF : 30.8/27

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

Right Out: -638.159+/-680.540 χ^2/NDF : 40.5/30

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

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

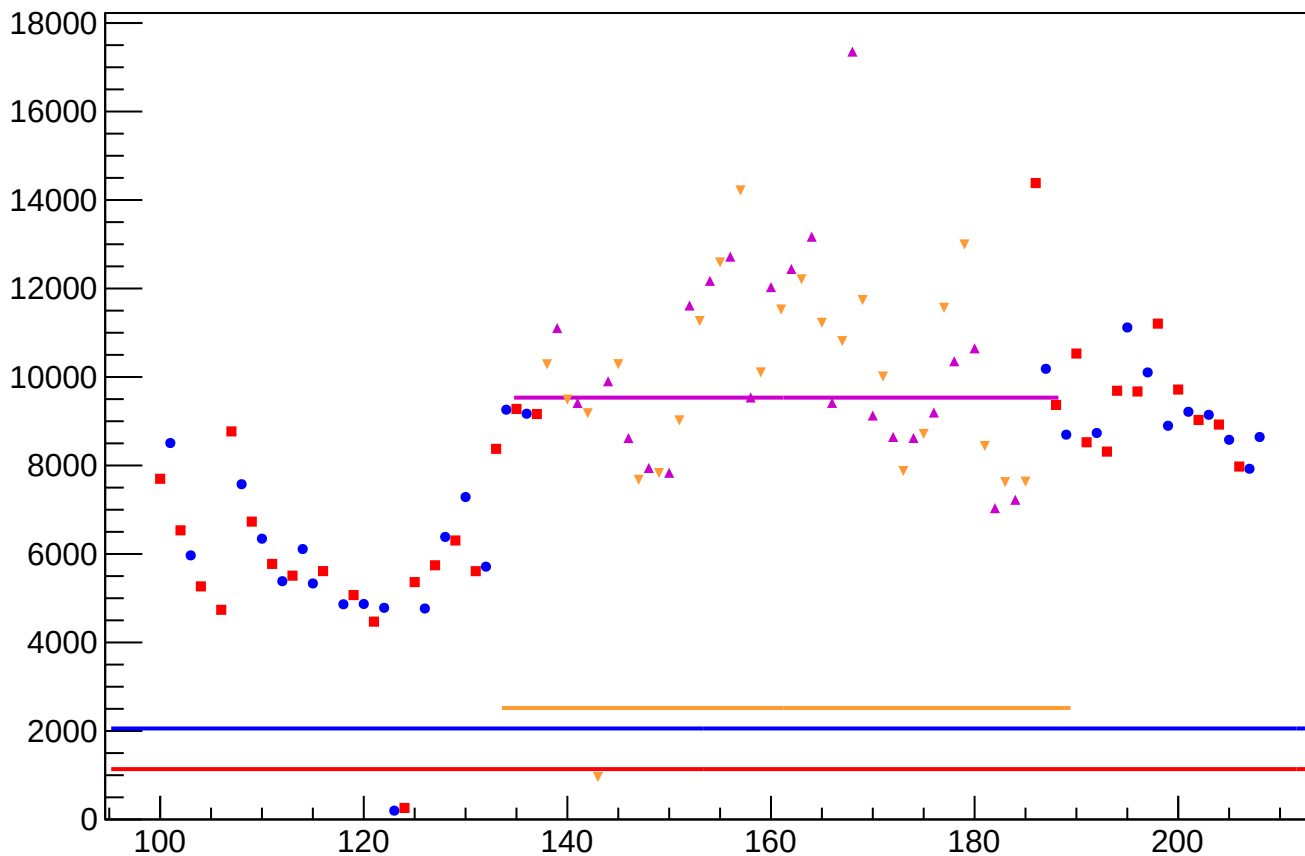
Right: -814.634+/-563.187 χ^2/NDF : 71.5/58

In: -1023.501+/-921.530 χ^2/NDF : 44.8/50

Out: -966.426+/-561.371 χ^2/NDF : 73.6/55

All: -981.874+/-479.421 χ^2/NDF : 118.4/106

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2056.044+/-0.709

χ^2/NDF : 20217552.9/27

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

Right: 1427.392+/-0.398 χ^2/NDF : 45618107.5/58

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3224.183+/-0.652 χ^2/NDF : 38891877.8/50

Right Out: 1138.105+/-0.481

χ^2/NDF : 24253815.1/30

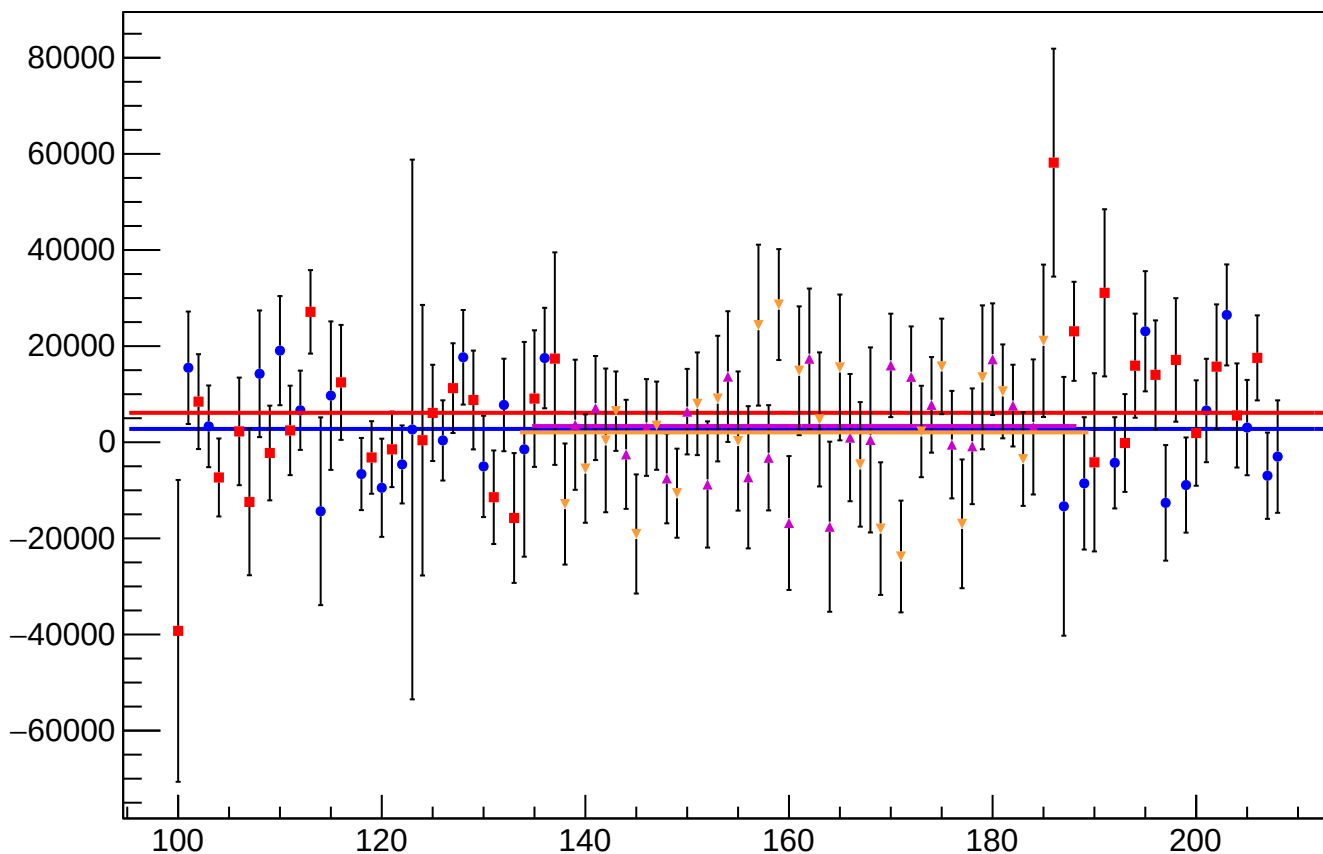
Out: 1579.494+/-0.397 χ^2/NDF : 50528732.8/55

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2024.636+/-0.339 χ^2/NDF : 94066958.9/131

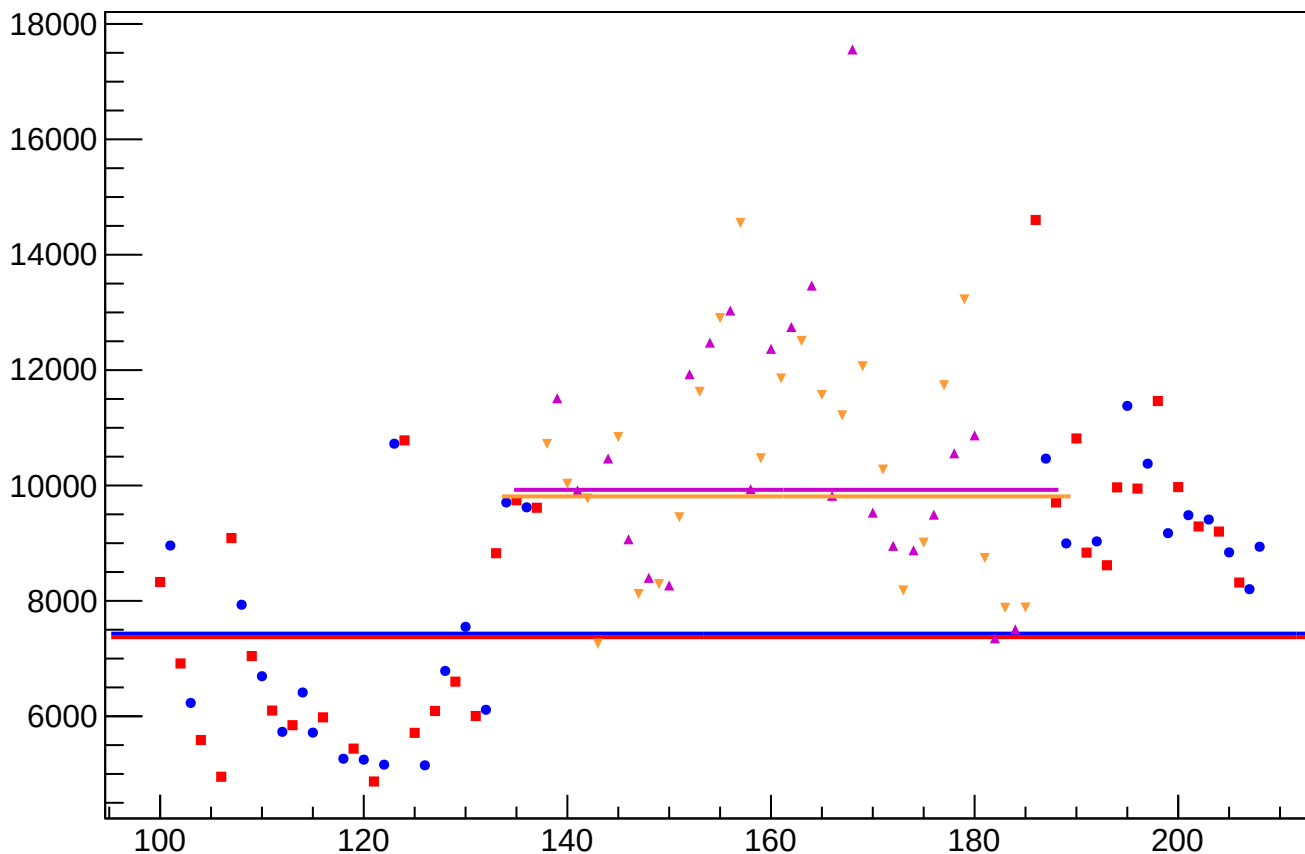
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2772.444+/-2026.660 χ^2/NDF : 28.1/27
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 6123.633+/-1981.145 χ^2/NDF : 37.2/30
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 4486.091+/-1416.699 χ^2/NDF : 66.8/58
 In: 3019.181+/-1554.620 χ^2/NDF :41.3/50
 Out: 4419.772+/-1510.255 χ^2/NDF :69.7/55
 All: 3739.747+/-1083.256 χ^2/NDF : 111.4/106

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7432.309+/-1.433

χ^2/NDF : 1648239.6/27

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right Out: 7371.324+/-1.401

χ^2/NDF : 2014545.7/30

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

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

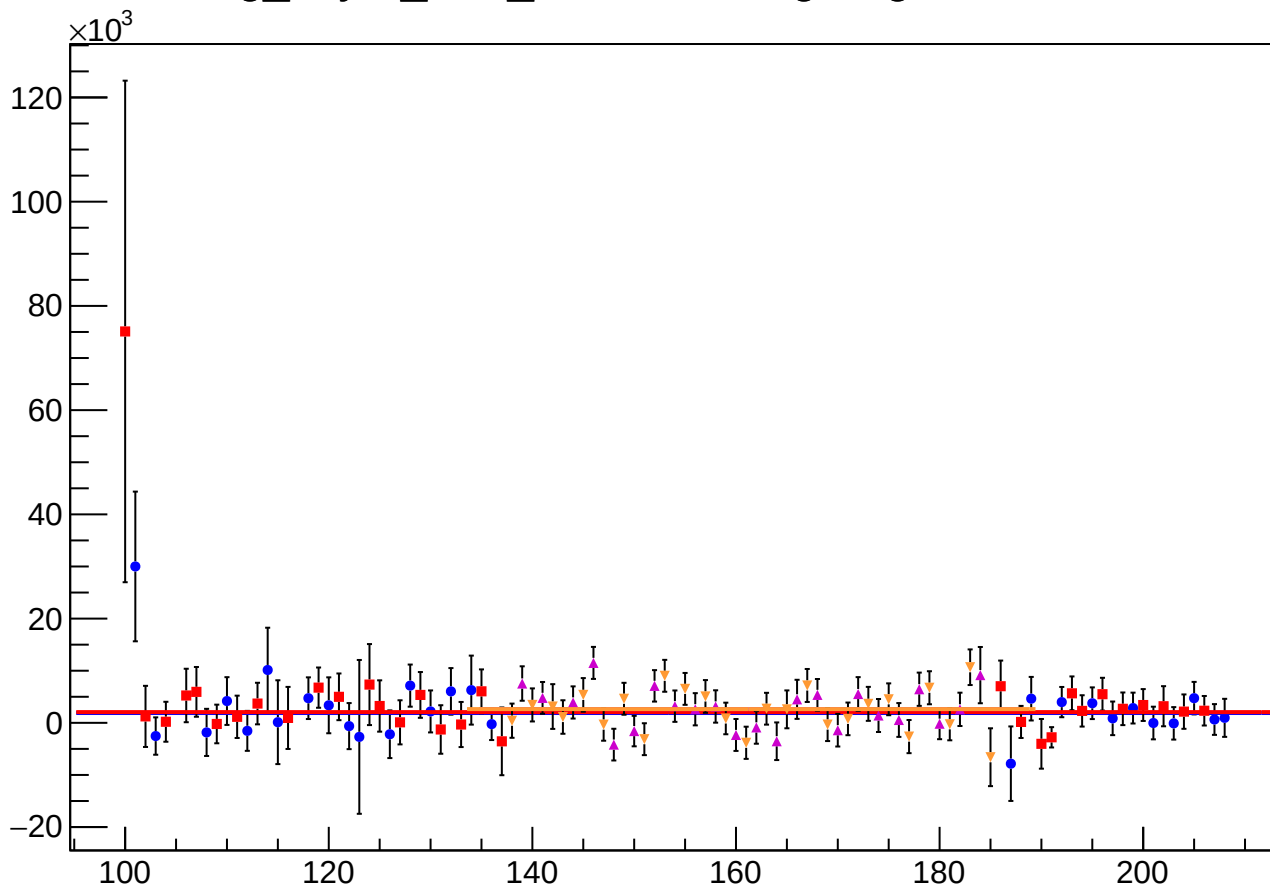
Right: 7401.123+/-1.002 χ^2/NDF : 3663711.5/58

In: 8458.356+/-1.099 χ^2/NDF : 4105420.7/50

Out: 8393.199+/-1.068 χ^2/NDF : 4498920.3/55

All: 8424.834+/-0.766 χ^2/NDF : 8606148.6/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1884.667 $\pm$ 746.845 χ^2 /NDF: 18.7/27

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

Right Out: 2058.794 $\pm$ 686.730 χ^2 /NDF: 21.9/30

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

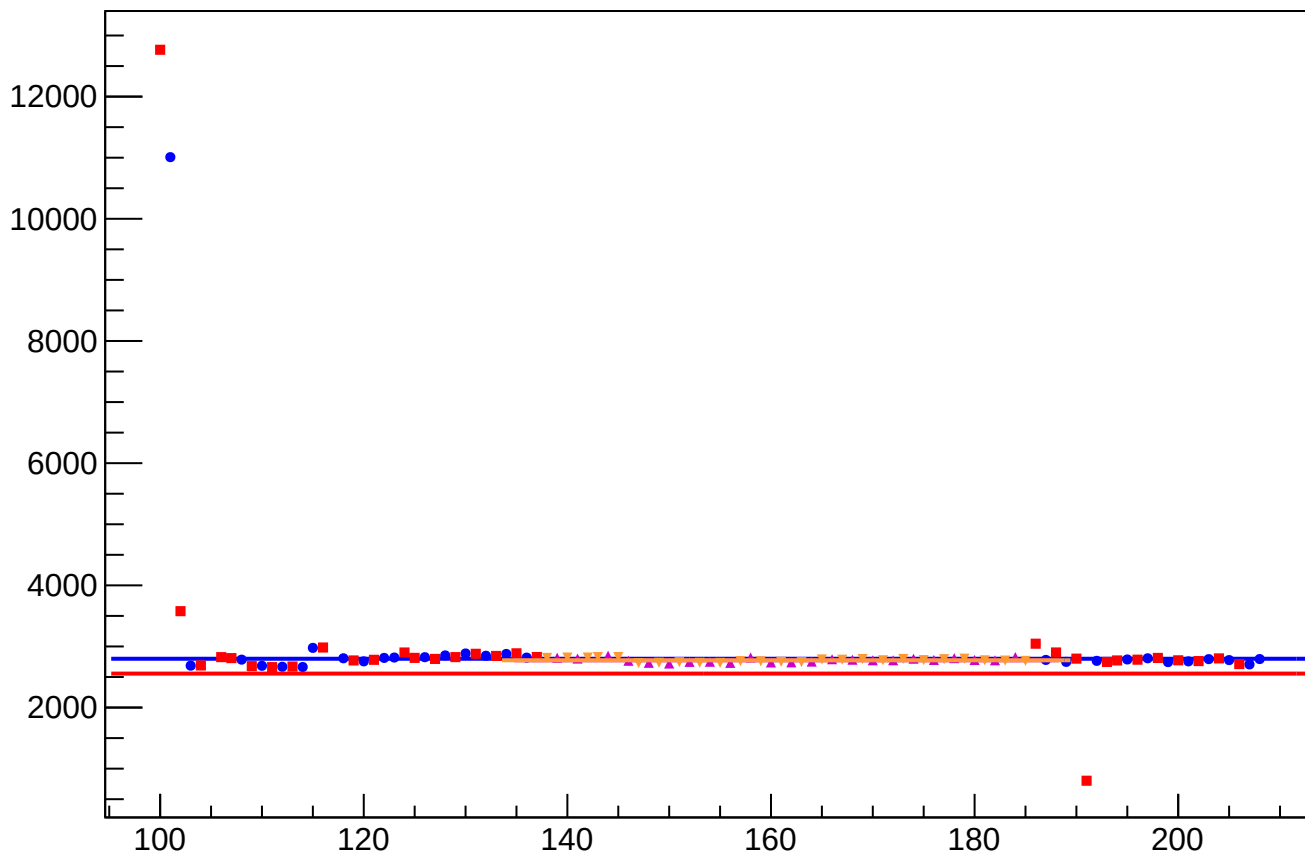
Right: 1979.020 $\pm$ 505.510 χ^2 /NDF: 40.6/58

In: 2305.438 $\pm$ 496.472 χ^2 /NDF: 54.5/50

Out: 2364.878 $\pm$ 470.578 χ^2 /NDF: 57.3/55

All: 2336.748 $\pm$ 341.536 χ^2 /NDF: 111.8/106

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2798.804+/-0.528 χ^2/NDF : 666609.2/27

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

Right Out: 2555.902+/-0.486 χ^2/NDF : 1994008.4/30

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

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

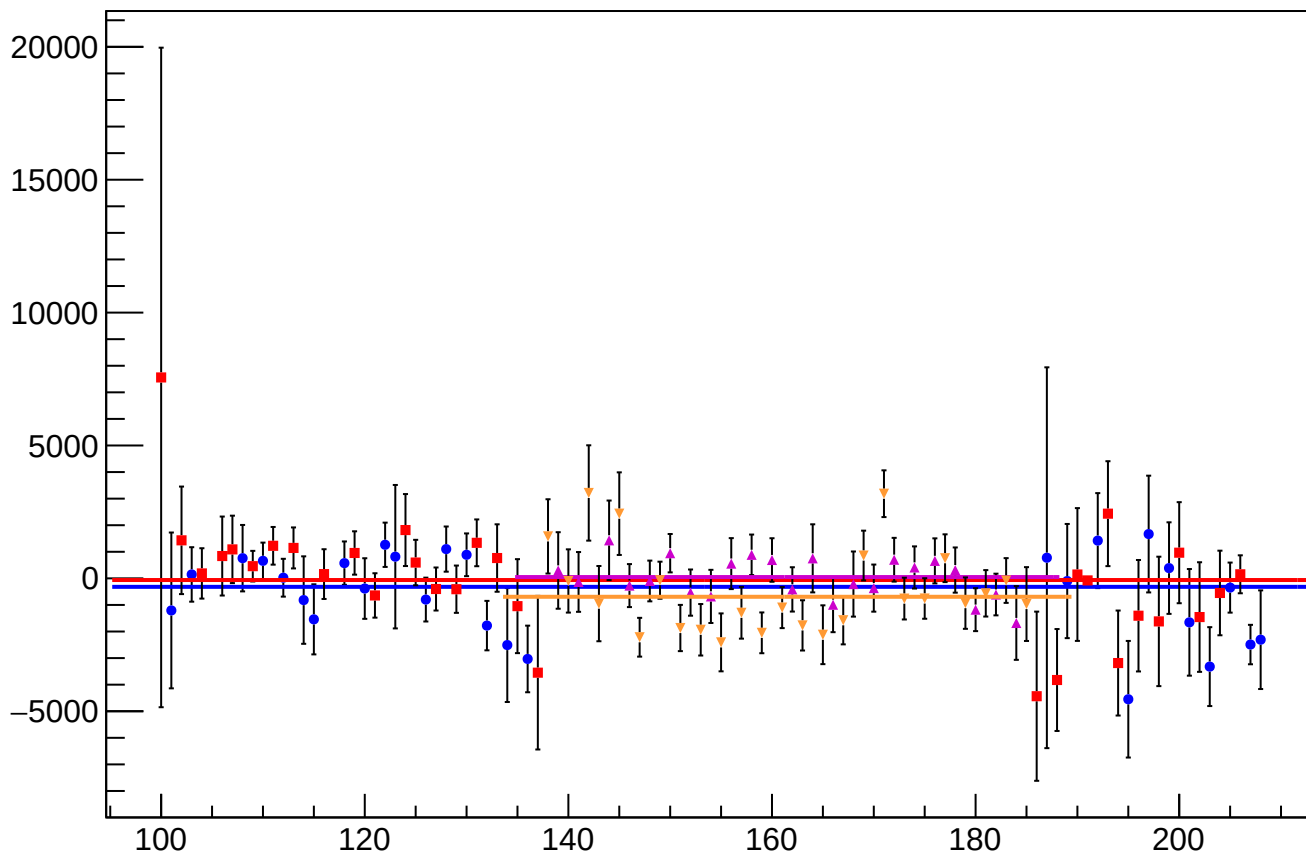
Right: 2667.185+/-0.357 χ^2/NDF : 2775253.2/58

In: 2784.981+/-0.351 χ^2/NDF : 672822.2/50

Out: 2671.438+/-0.333 χ^2/NDF : 2105347.0/55

All: 2725.171+/-0.242 χ^2/NDF : 2833272.2/100

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -319.011 $\pm$ 212.003 χ^2/NDF : 42.7/27

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

Right Out: -62.628 $\pm$ 37.823 χ^2/NDF : 30.2/30

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

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

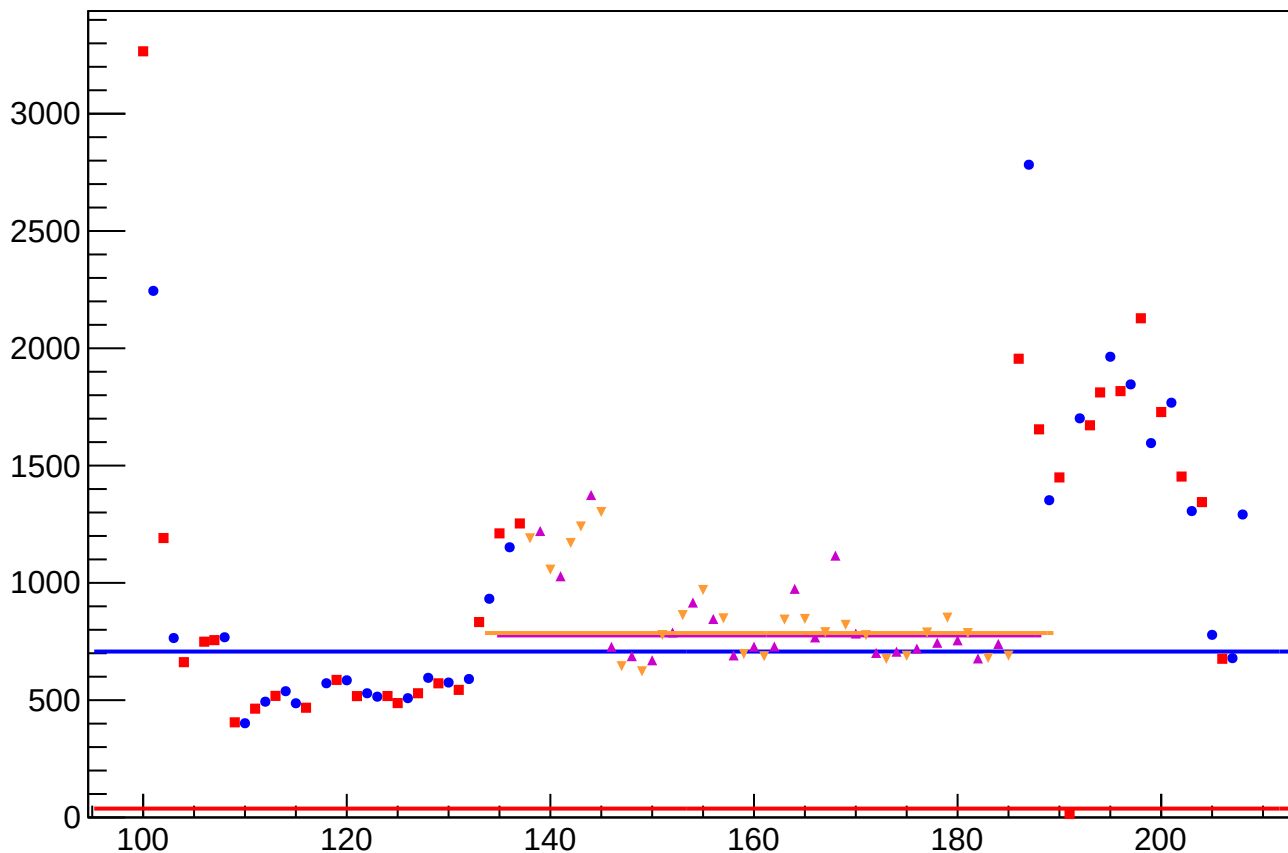
Right: -70.536 $\pm$ 37.235 χ^2/NDF : 74.3/58

In: -114.011 $\pm$ 141.156 χ^2/NDF : 58.1/50

Out: -87.319 $\pm$ 37.074 χ^2/NDF : 97.0/55

All: -89.042 $\pm$ 35.858 χ^2/NDF : 155.1/106

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 707.254+/-0.150

χ^2/NDF : 5695025.0/27

Left Out: 786.173+/-0.132

χ^2/NDF : 1249536.1/24

Right Out: 37.734+/-0.027

χ^2/NDF : 26872225.3/30

Left In: 775.930+/-0.134

χ^2/NDF : 1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 58.387+/-0.026

χ^2/NDF : 51898707.2/58

In: 745.485+/-0.100

χ^2/NDF : 6868625.0/50

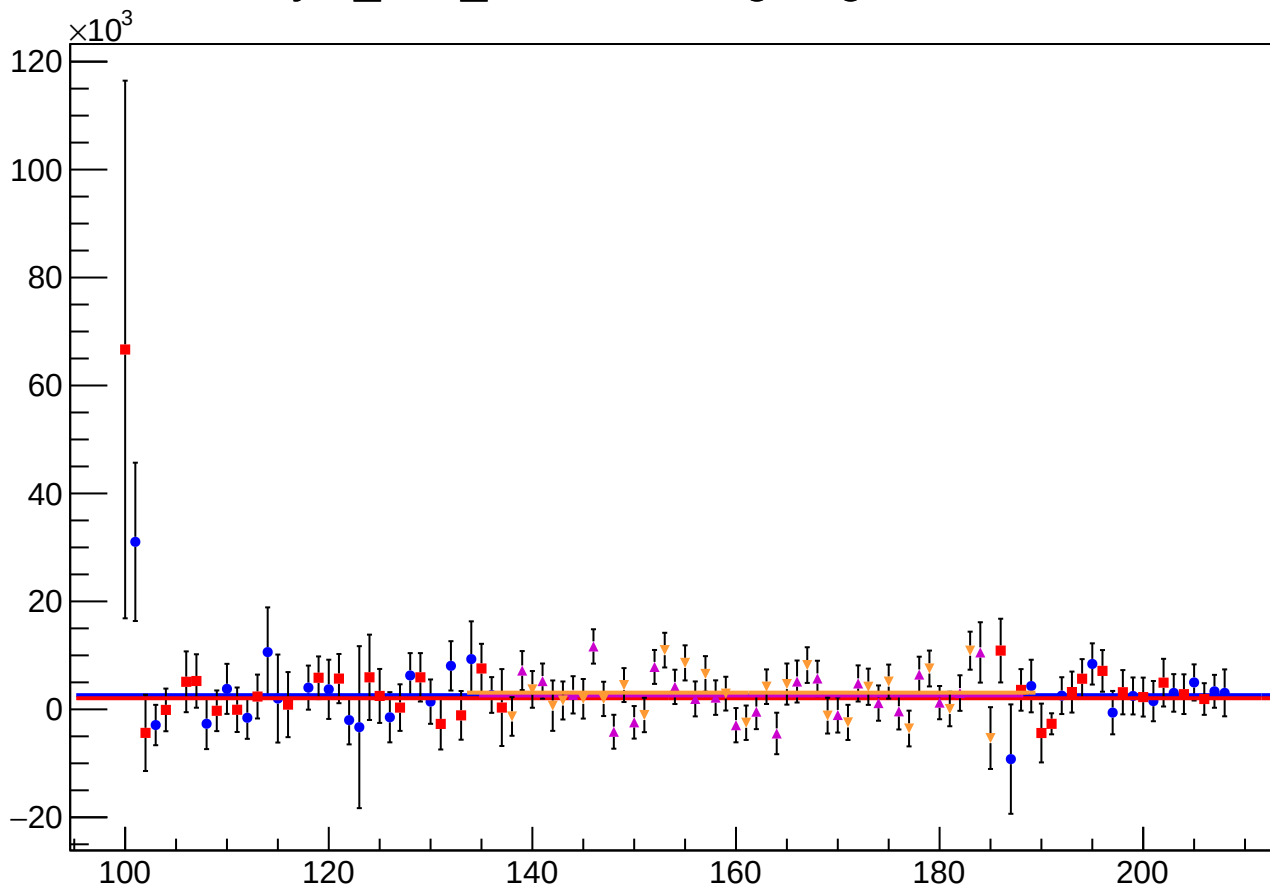
Out: 67.059+/-0.026

χ^2/NDF : 58806411.6/55

All: 110.839+/-0.025

χ^2/NDF : 108892738.6/3

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2625.656+/-818.759 χ^2/NDF : 19.8/27

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

Right Out: 2057.571+/-747.306 χ^2/NDF : 23.0/30

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

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

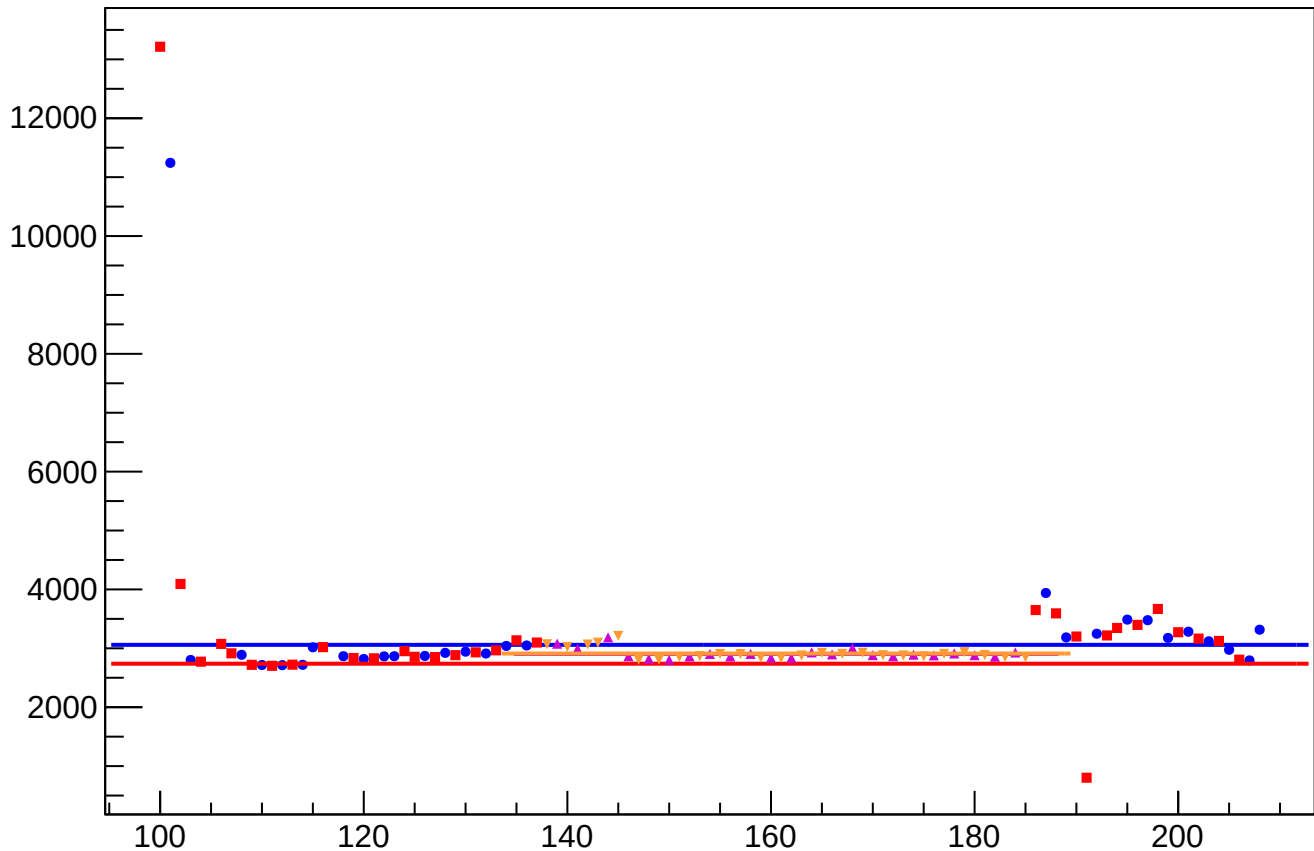
Right: 2315.748+/-551.961 χ^2/NDF : 43.1/58

In: 2595.188+/-530.201 χ^2/NDF : 55.5/50

Out: 2626.129+/-502.344 χ^2/NDF : 62.7/55

All: 2611.493+/-364.662 χ^2/NDF : 118.2/106

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3058.831+/-0.579 χ^2/NDF : 789122.1/27

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

Right Out: 2738.874+/-0.528 χ^2/NDF : 2682012.7/30

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

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

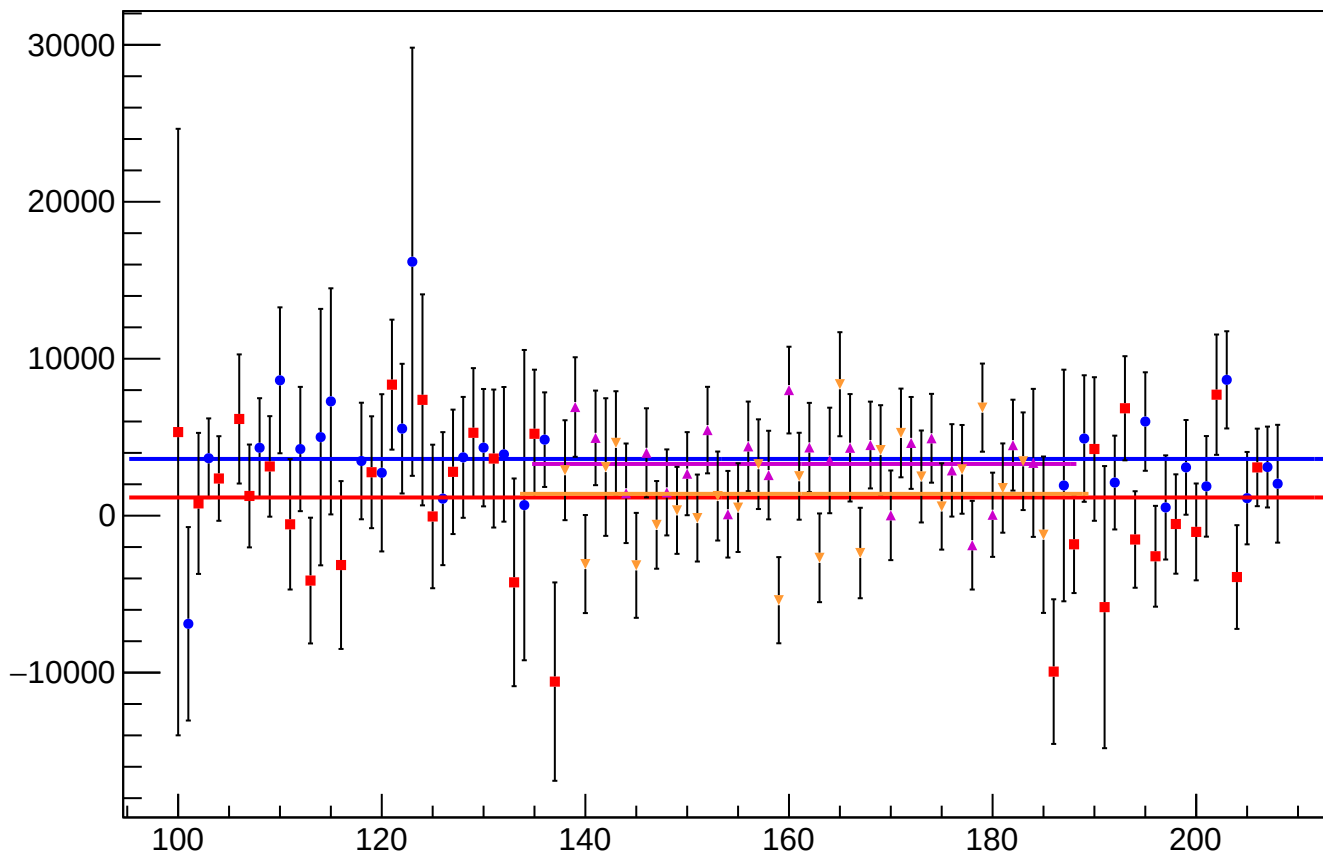
Right: 2884.284+/-0.390 χ^2/NDF : 3637752.8/58

In: 2968.585+/-0.375 χ^2/NDF : 859806.5/50

Out: 2833.346+/-0.355 χ^2/NDF : 2776968.9/55

All: 2897.320+/-0.258 χ^2/NDF : 3705344.5/100

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3614.405 $\pm$ 706.346 χ^2 /NDF: 12.0/27

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

Right Out: 1159.311 $\pm$ 687.409 χ^2 /NDF: 34.9/30

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

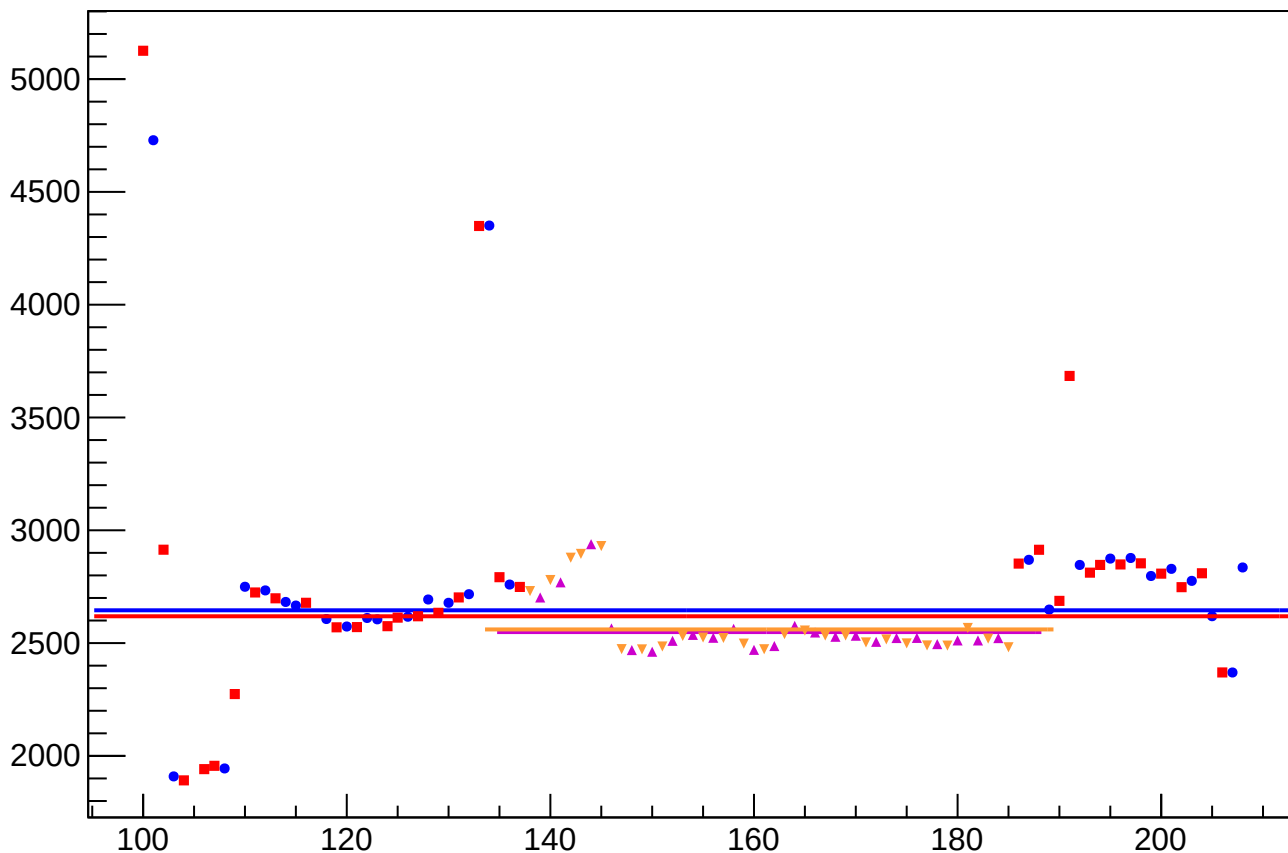
Right: 2353.507 $\pm$ 492.630 χ^2 /NDF: 53.1/58

In: 3431.657 $\pm$ 461.667 χ^2 /NDF:26.9/50

Out: 1291.062 $\pm$ 450.534 χ^2 /NDF:64.1/55

All: 2335.238 $\pm$ 322.439 χ^2 /NDF: 102.1/106

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2645.350+/-0.499 χ^2/NDF : 636497.6/27

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

Right Out: 2618.874+/-0.486 χ^2/NDF : 619514.2/30

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

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

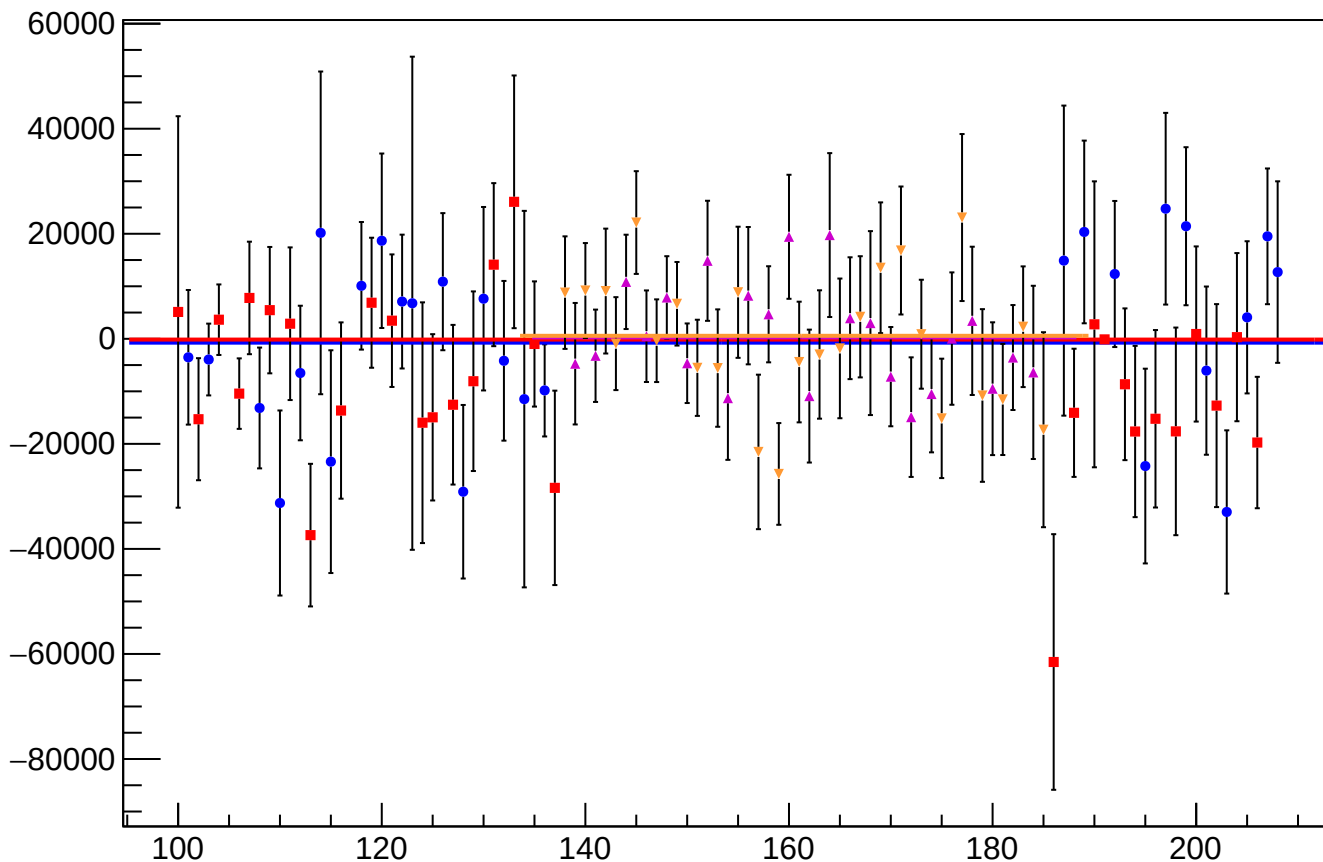
Right: 2631.752+/-0.348 χ^2/NDF : 1257455.0/58

In: 2590.085+/-0.326 χ^2/NDF : 713137.8/50

Out: 2585.593+/-0.319 χ^2/NDF : 714503.8/55

All: 2587.784+/-0.228 χ^2/NDF : 1427738.6/10

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -731.161 $\pm$ 2694.808 χ^2 /NDF: 29.9/27

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

Right Out: -145.766 $\pm$ 194.943 χ^2 /NDF: 34.0/30

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

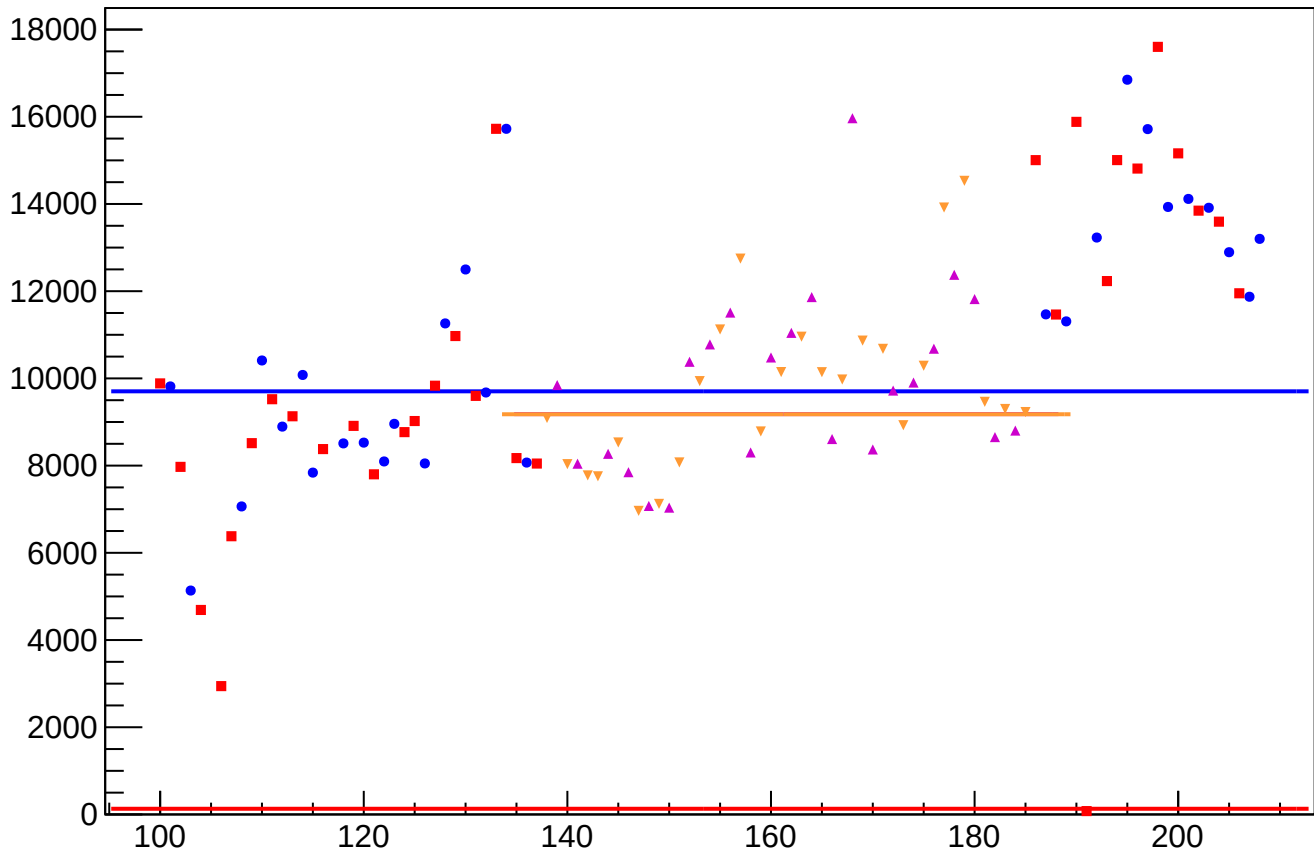
Right: -148.814 $\pm$ 194.435 χ^2 /NDF: 64.0/58

In: -136.677 $\pm$ 1723.887 χ^2 /NDF:45.7/50

Out: -140.091 $\pm$ 194.171 χ^2 /NDF:62.4/55

All: -140.048 $\pm$ 192.951 χ^2 /NDF: 108.1/106

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9703.600+/-1.906

χ^2/NDF : 2673937.3/27

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 130.495+/-0.138

χ^2/NDF : 28579608.8/30

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 180.331+/-0.137

χ^2/NDF : 56361617.1/58

In: 9395.011+/-1.219

χ^2/NDF : 3954799.9/50

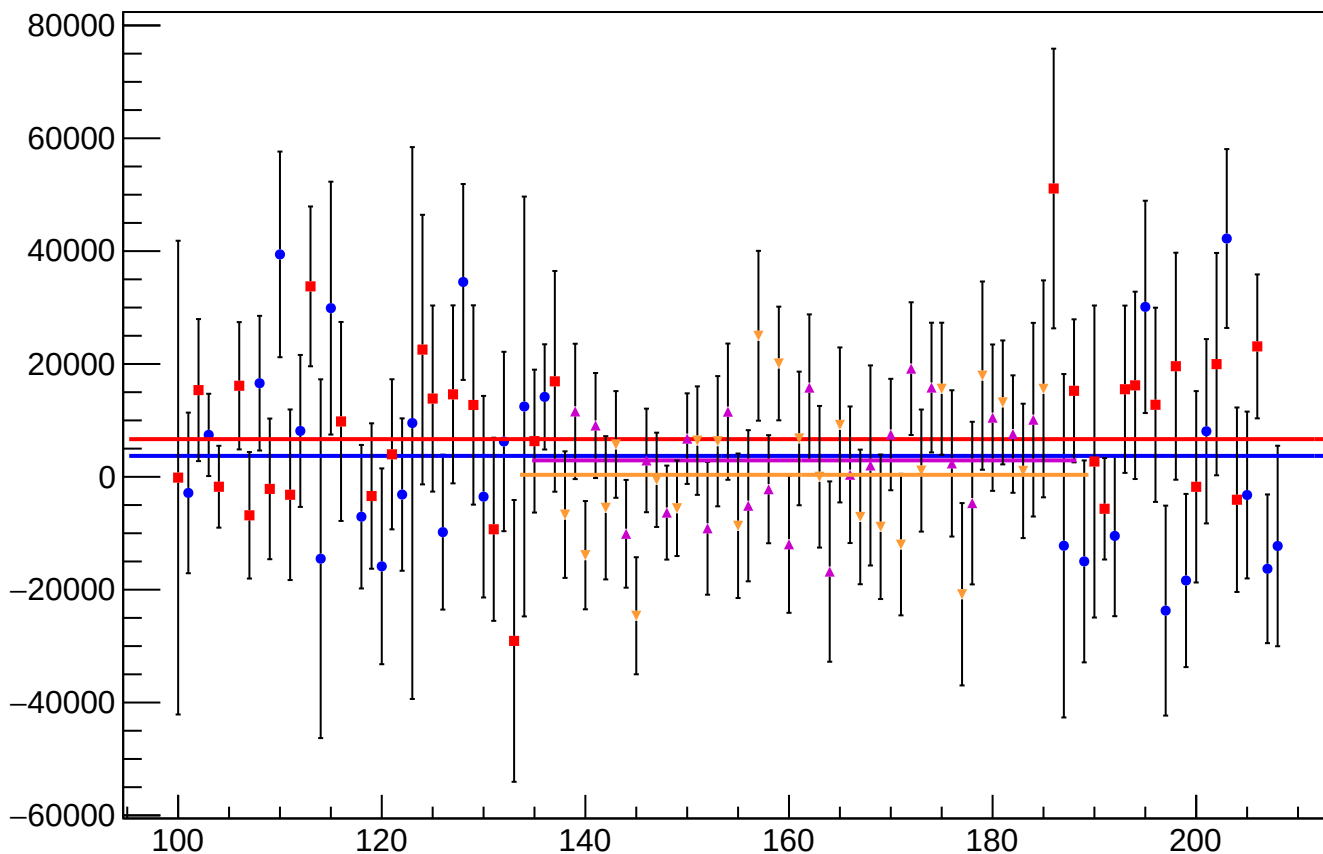
Out: 201.982+/-0.137

χ^2/NDF : 63793302.6/55

All: 317.151+/-0.136

χ^2/NDF : 123911672.6/55

asym_atr2_mean vs Slug, Sign Corrected



Right In: 3710.968 $\pm$ 2817.775 χ^2 /NDF: 33.0/27

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

Right Out: 6679.459 $\pm$ 2575.087 χ^2 /NDF: 23.2/30

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

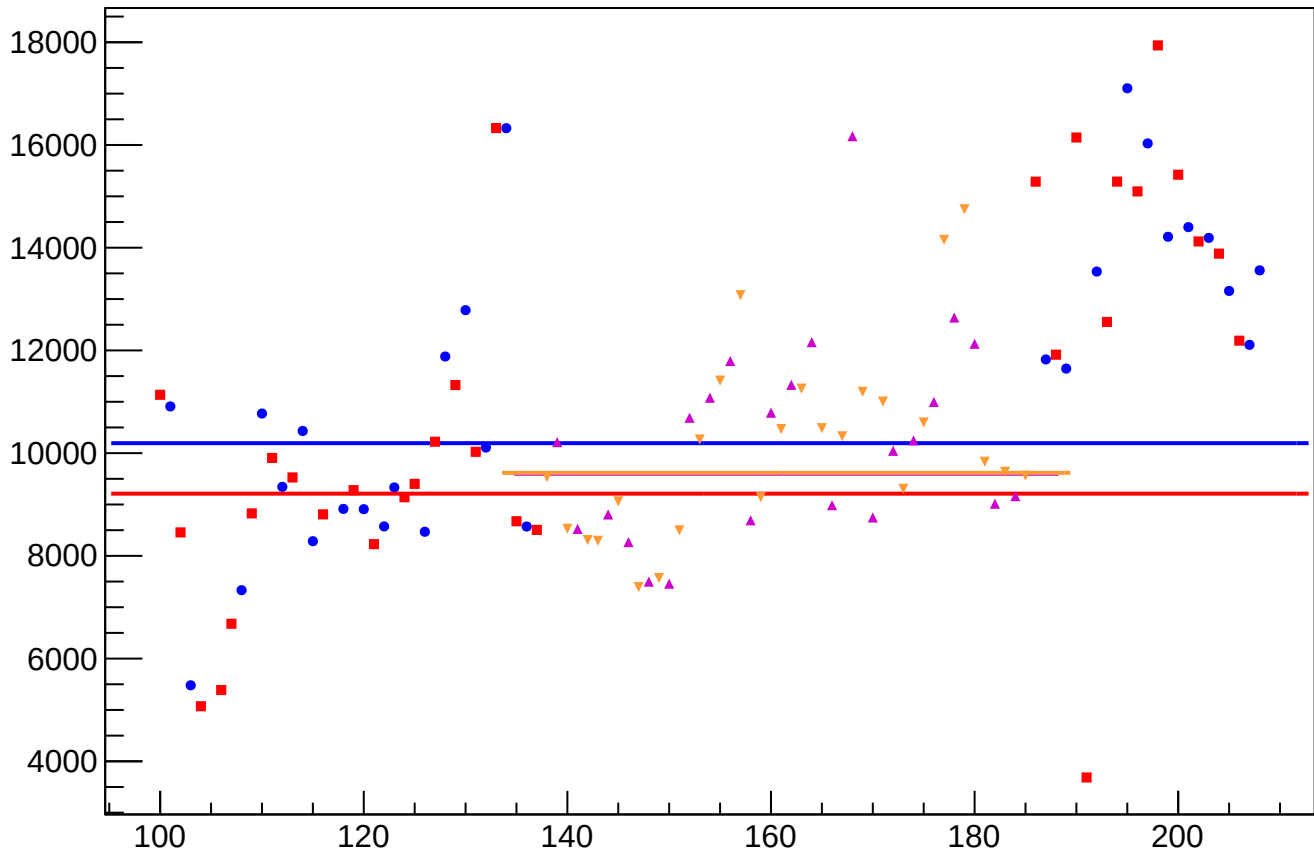
Right: 5328.531 $\pm$ 1900.879 χ^2 /NDF: 56.8/58

In: 3241.613 $\pm$ 1799.494 χ^2 /NDF:48.0/50

Out: 3136.951 $\pm$ 1707.747 χ^2 /NDF:52.8/55

All: 3186.546 $\pm$ 1238.725 χ^2 /NDF: 100.8/106

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10194.193 $\pm$ 1.992 χ^2 /NDF: 2435898.9/27

Left Out: 9616.245 $\pm$ 1.613 χ^2 /NDF:1011665.6/24

Right Out: 9211.211 $\pm$ 1.821 χ^2 /NDF: 3962431.9/30

Left In: 9598.531 $\pm$ 1.654 χ^2 /NDF:1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2 /NDF: 2093896.0/47

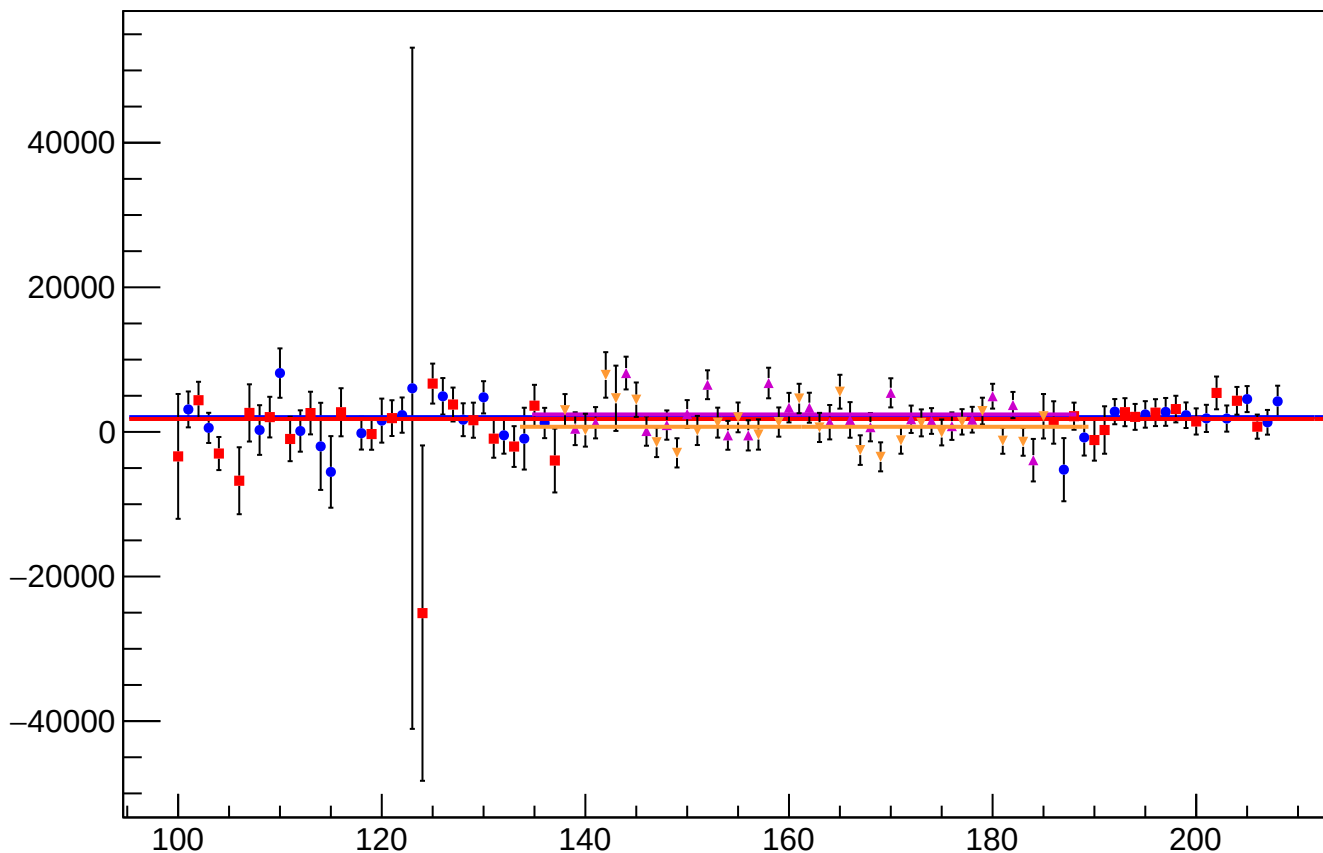
Right: 9658.540 $\pm$ 1.344 χ^2 /NDF: 6530962.3/58

In: 9841.465 $\pm$ 1.272 χ^2 /NDF:3570995.1/50

Out: 9438.102 $\pm$ 1.208 χ^2 /NDF:5001816.8/55

All: 9629.236 $\pm$ 0.876 χ^2 /NDF: 8625684.5/100

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2045.695+/-443.071 χ^2 /NDF: 20.4/27

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

Right Out: 1789.381+/-442.167 χ^2 /NDF: 28.3/30

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

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

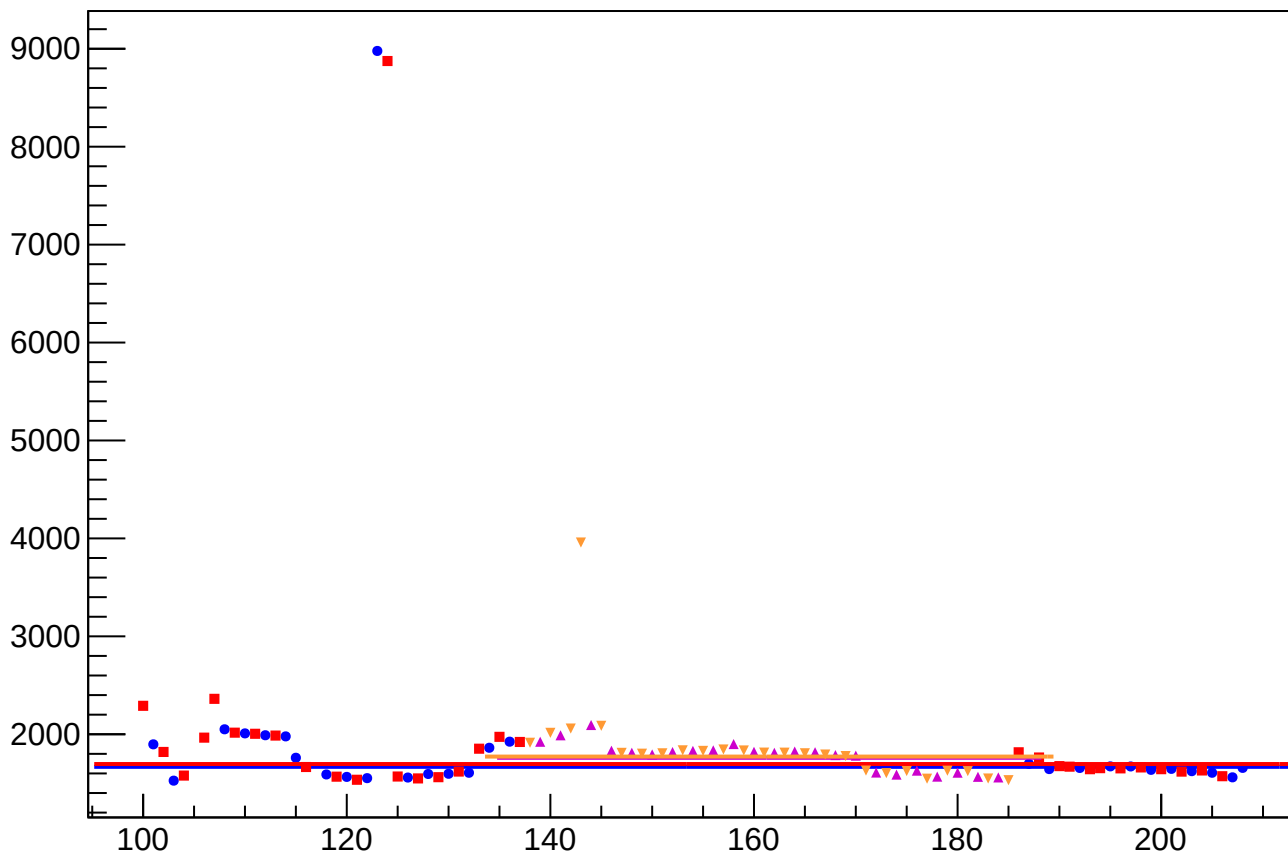
Right: 1917.276+/-312.978 χ^2 /NDF: 48.9/58

In: 2238.565+/-306.134 χ^2 /NDF:54.8/50

Out: 1218.440+/-303.516 χ^2 /NDF:66.3/55

All: 1724.121+/-215.538 χ^2 /NDF: 126.7/106

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1667.424+/-0.313 χ^2/NDF : 215732.4/27

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1695.984+/-0.312 χ^2/NDF : 436450.2/30

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

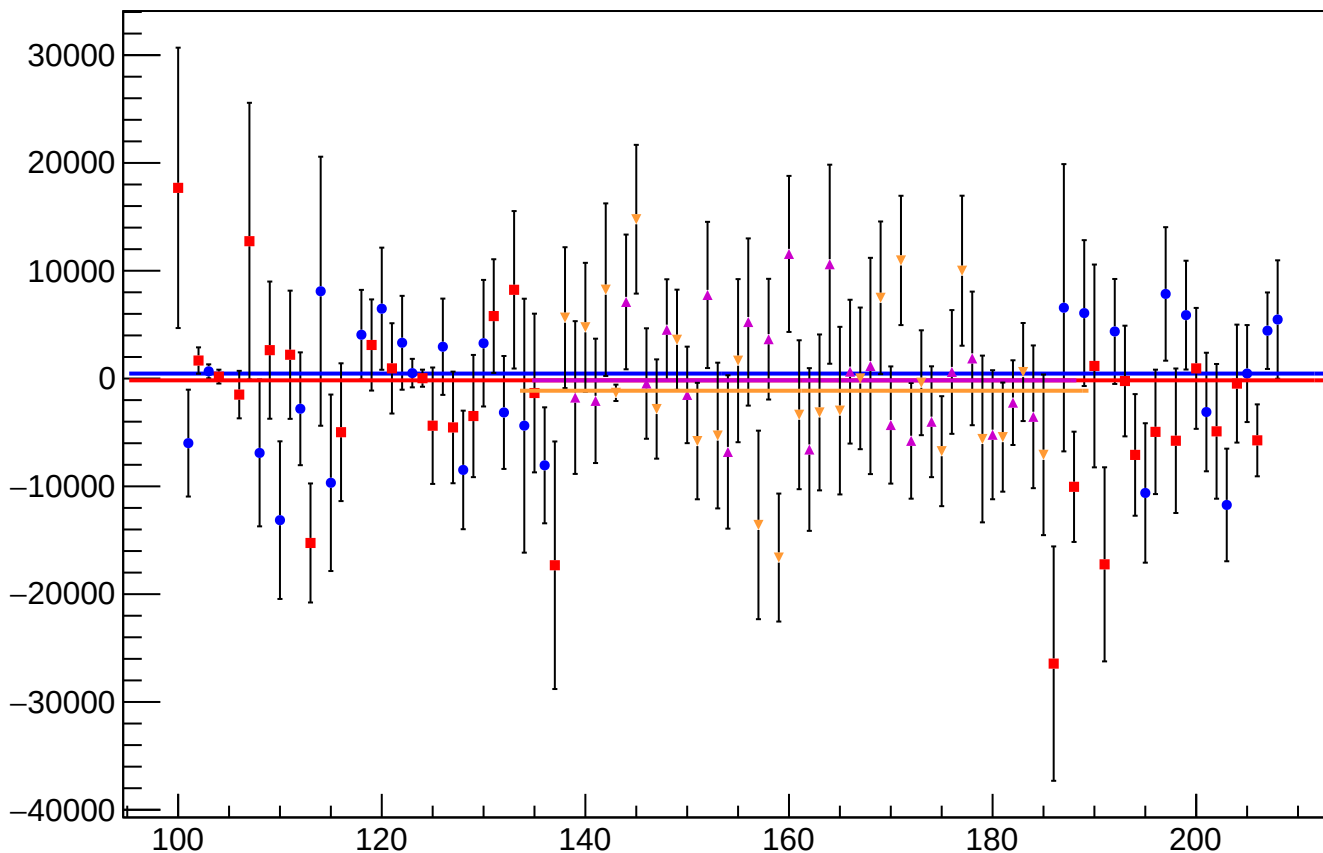
Right: 1681.761+/-0.221 χ^2/NDF : 656354.3/58

In: 1715.595+/-0.216 χ^2/NDF : 475860.5/50

Out: 1736.133+/-0.214 χ^2/NDF : 1170283.0/55

All: 1725.962+/-0.152 χ^2/NDF : 1650687.0/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 461.656 ± 512.211 χ^2/NDF : 32.4/27

Left Out: -1129.807 ± 647.600 χ^2/NDF : 31.5/24

Right Out: -165.293 ± 419.231 χ^2/NDF : 40.9/30

Left In: -168.182 ± 1232.411 χ^2/NDF : 14.2/22

Left: -921.734 ± 573.272 χ^2/NDF : 46.1/47

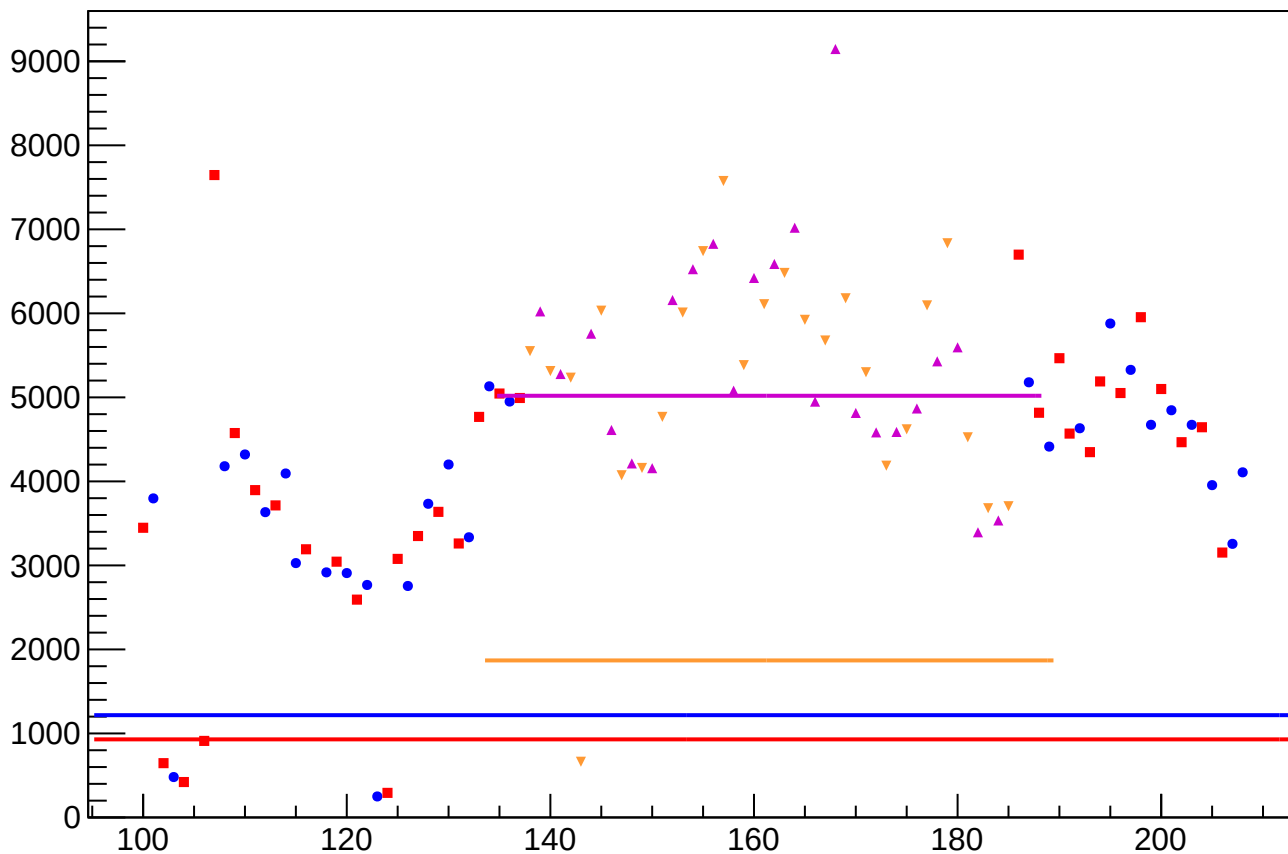
Right: 86.215 ± 324.421 χ^2/NDF : 74.2/58

In: 368.885 ± 472.986 χ^2/NDF : 46.7/50

Out: -450.130 ± 351.926 χ^2/NDF : 74.0/55

All: -158.284 ± 282.345 χ^2/NDF : 122.7/106

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1217.438+/-0.362

χ^2/NDF : 17178909.4/27

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

Right: 1044.934+/-0.229 χ^2/NDF : 36831556.2/58

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

In: 1777.402+/-0.334 χ^2/NDF : 34976058.0/50

Right Out: 929.374+/-0.296

χ^2/NDF : 19273837.1/30

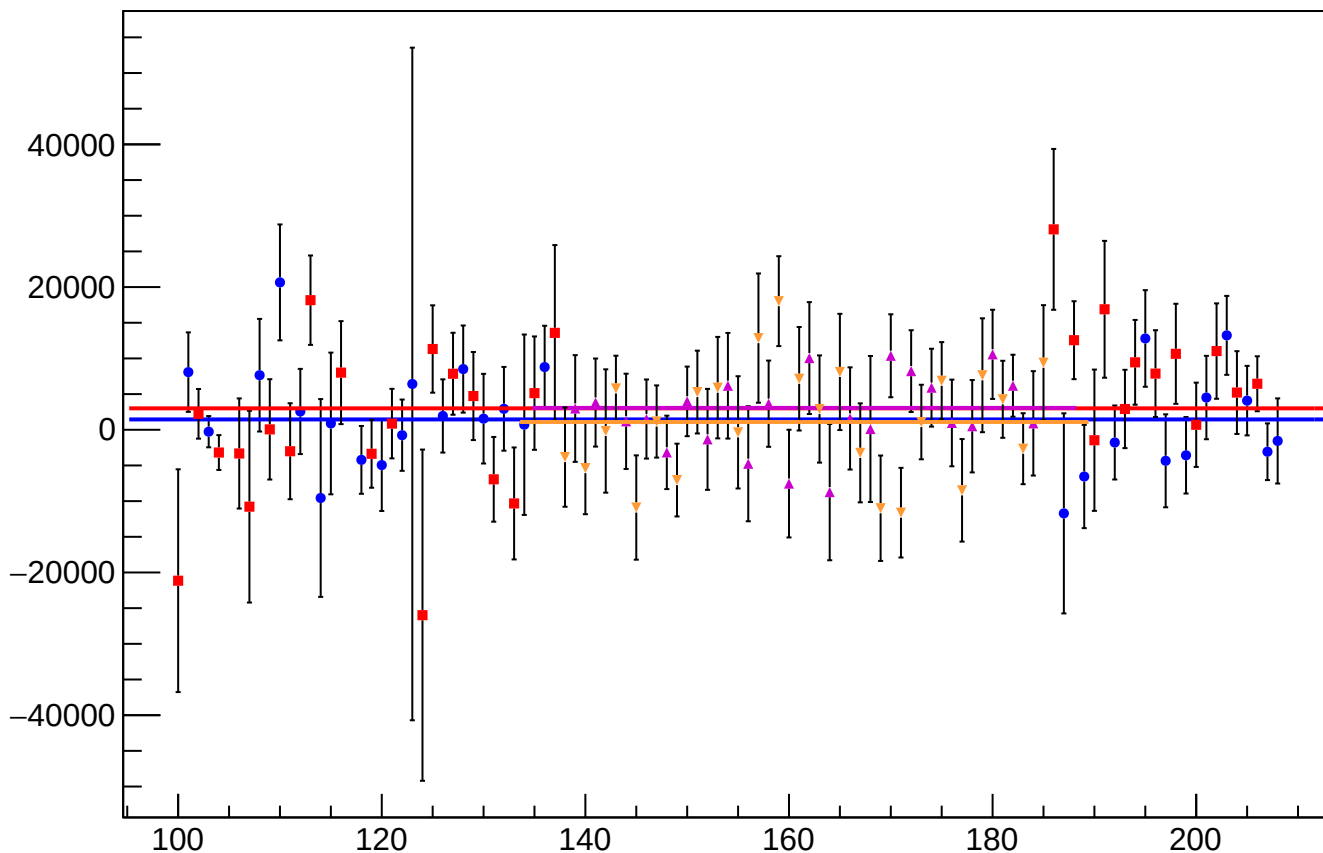
Out: 1206.856+/-0.249 χ^2/NDF : 42093168.2/55

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1410.164+/-0.200 χ^2/NDF : 78942375.5/1

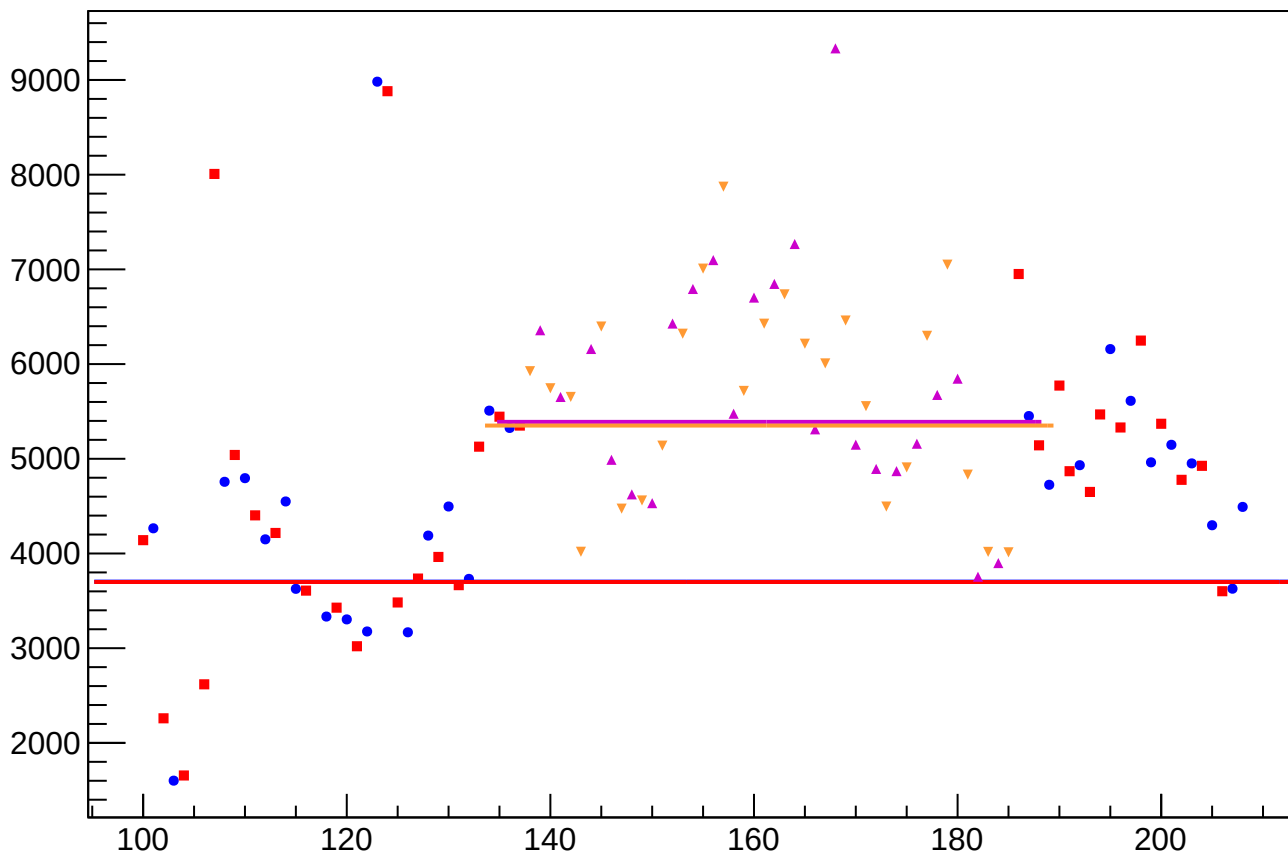
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1450.768 $\pm$ 1044.318 χ^2 /NDF: 28.2/27
 Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24
 Right Out: 3004.996 $\pm$ 1041.476 χ^2 /NDF: 46.5/30
 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: 2230.000 $\pm$ 737.437 χ^2 /NDF: 75.8/58
 In: 2073.160 $\pm$ 818.562 χ^2 /NDF:41.7/50
 Out: 2238.975 $\pm$ 806.108 χ^2 /NDF:79.8/55
 All: 2157.338 $\pm$ 574.357 χ^2 /NDF: 121.5/106

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3702.802 $\pm$ 0.738

χ^2 /NDF: 3305123.5/27

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Right: 3700.872 $\pm$ 0.519 χ^2 /NDF: 7168495.4/58

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

In: 4353.308 $\pm$ 0.579 χ^2 /NDF: 6627384.1/50

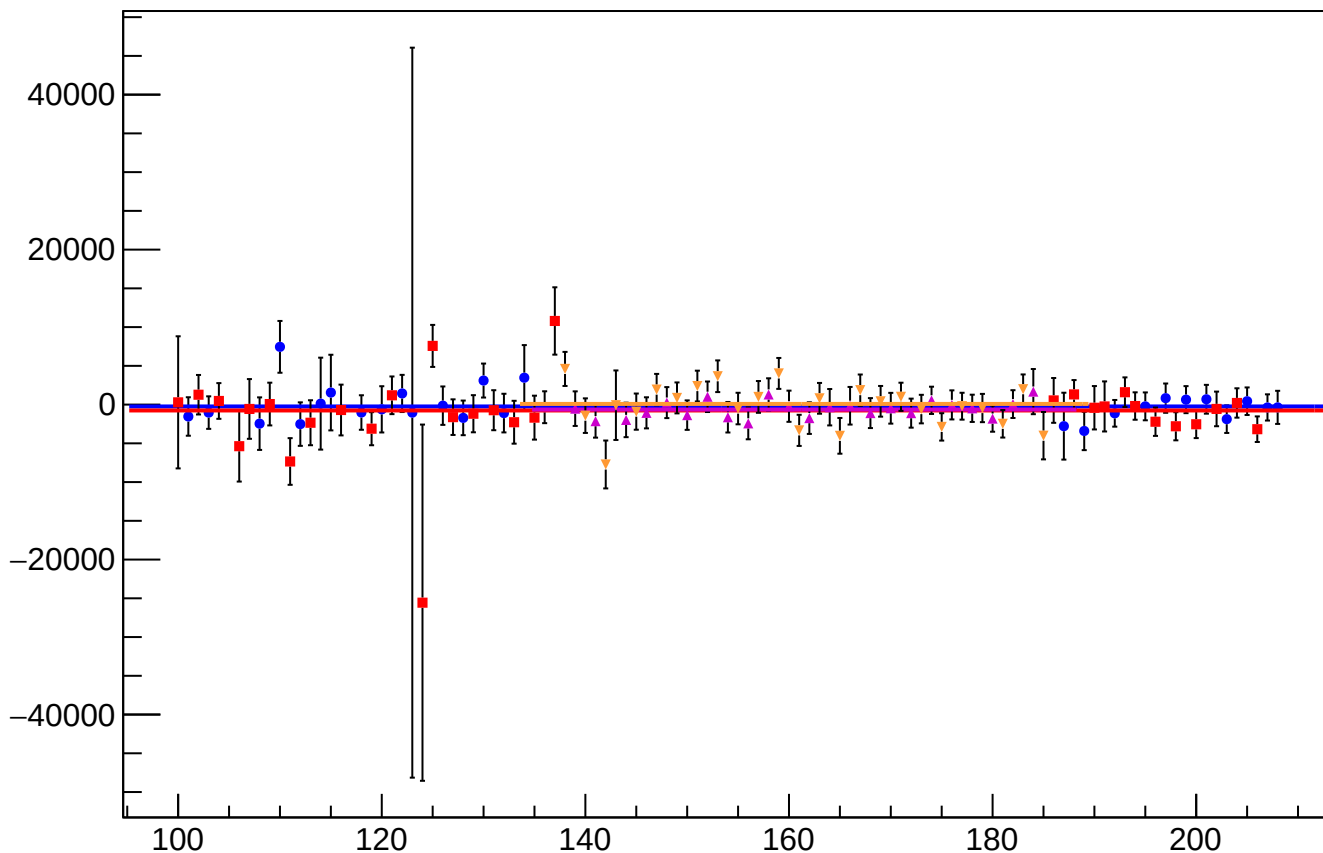
Right Out: 3698.990 $\pm$ 0.729 χ^2 /NDF: 3863358.4/30

Out: 4353.615 $\pm$ 0.567 χ^2 /NDF: 7137378.1/55

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF: 1309863.0/22

All: 4353.465 $\pm$ 0.405 χ^2 /NDF: 13764762.3/137

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -240.241 $\pm$ 436.937 χ^2/NDF : 15.3/27

Left Out: 86.214 $\pm$ 411.530 χ^2/NDF : 36.0/24

Right Out: -756.951 $\pm$ 435.842 χ^2/NDF : 35.7/30

Left In: -640.235 $\pm$ 417.645 χ^2/NDF : 6.2/22

Left: -271.653 $\pm$ 293.134 χ^2/NDF : 43.7/47

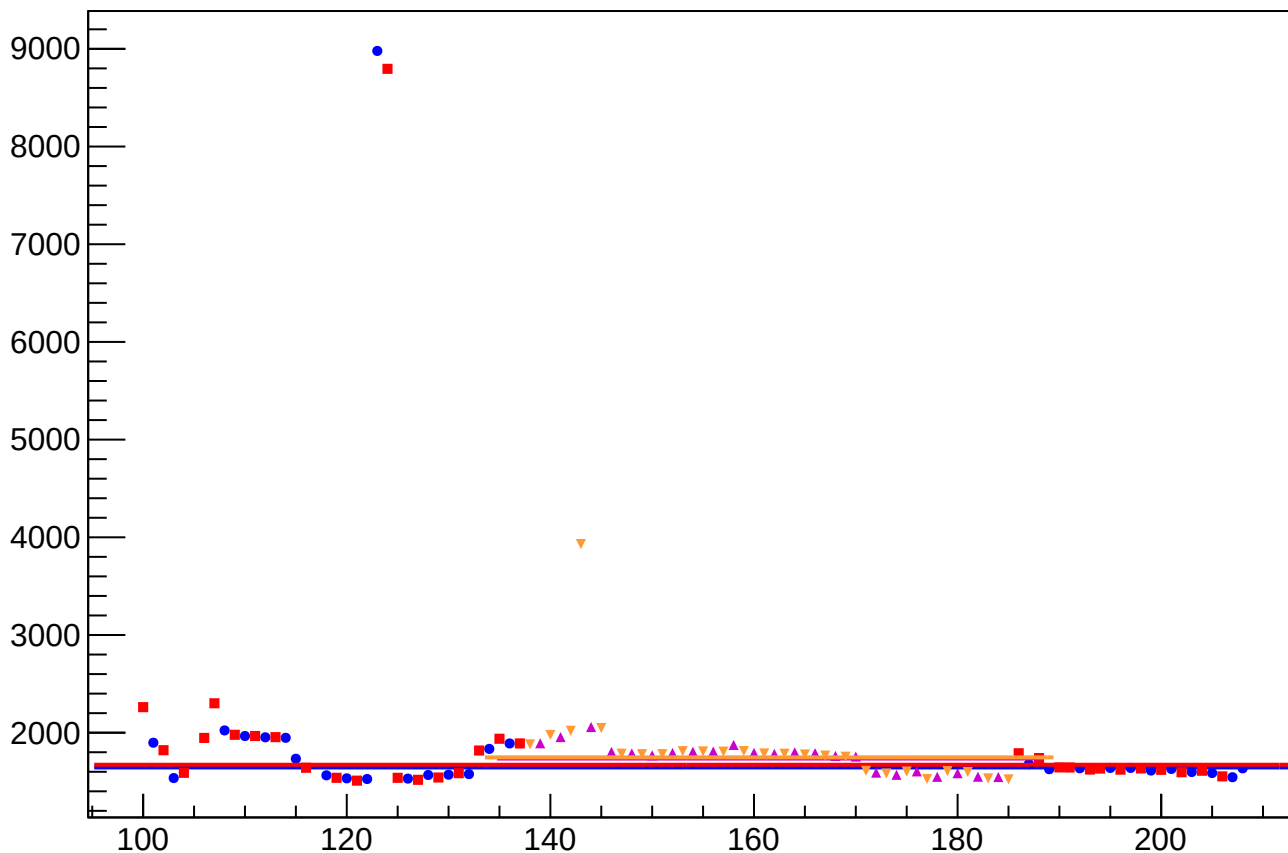
Right: -499.245 $\pm$ 308.573 χ^2/NDF : 51.7/58

In: -449.263 $\pm$ 301.909 χ^2/NDF : 21.9/50

Out: -311.197 $\pm$ 299.222 χ^2/NDF : 73.7/55

All: -379.613 $\pm$ 212.526 χ^2/NDF : 95.7/106

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1644.415+/-0.309 χ^2/NDF : 212968.3/27

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1671.992+/-0.308 χ^2/NDF : 432082.3/30

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

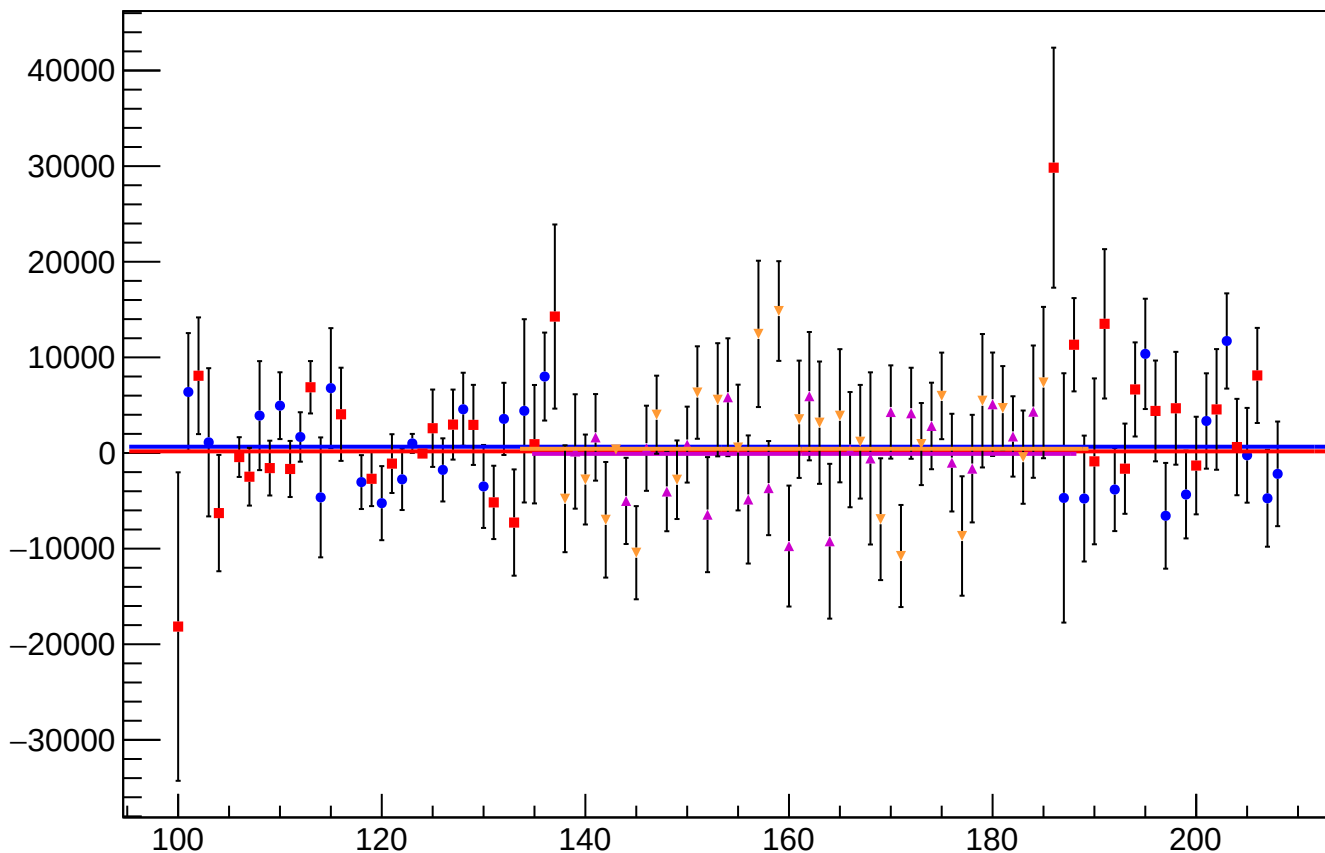
Right: 1658.264+/-0.218 χ^2/NDF : 649051.3/58

In: 1692.034+/-0.213 χ^2/NDF : 465192.9/50

Out: 1711.744+/-0.211 χ^2/NDF : 1161922.3/55

All: 1701.986+/-0.150 χ^2/NDF : 1631419.4/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 657.026+/-647.207 χ^2/NDF : 29.9/27

Left Out: 442.187+/-440.335 χ^2/NDF : 33.9/24

Right Out: 172.181+/-349.107 χ^2/NDF : 41.1/30

Left In: -88.508+/-1094.838 χ^2/NDF : 13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

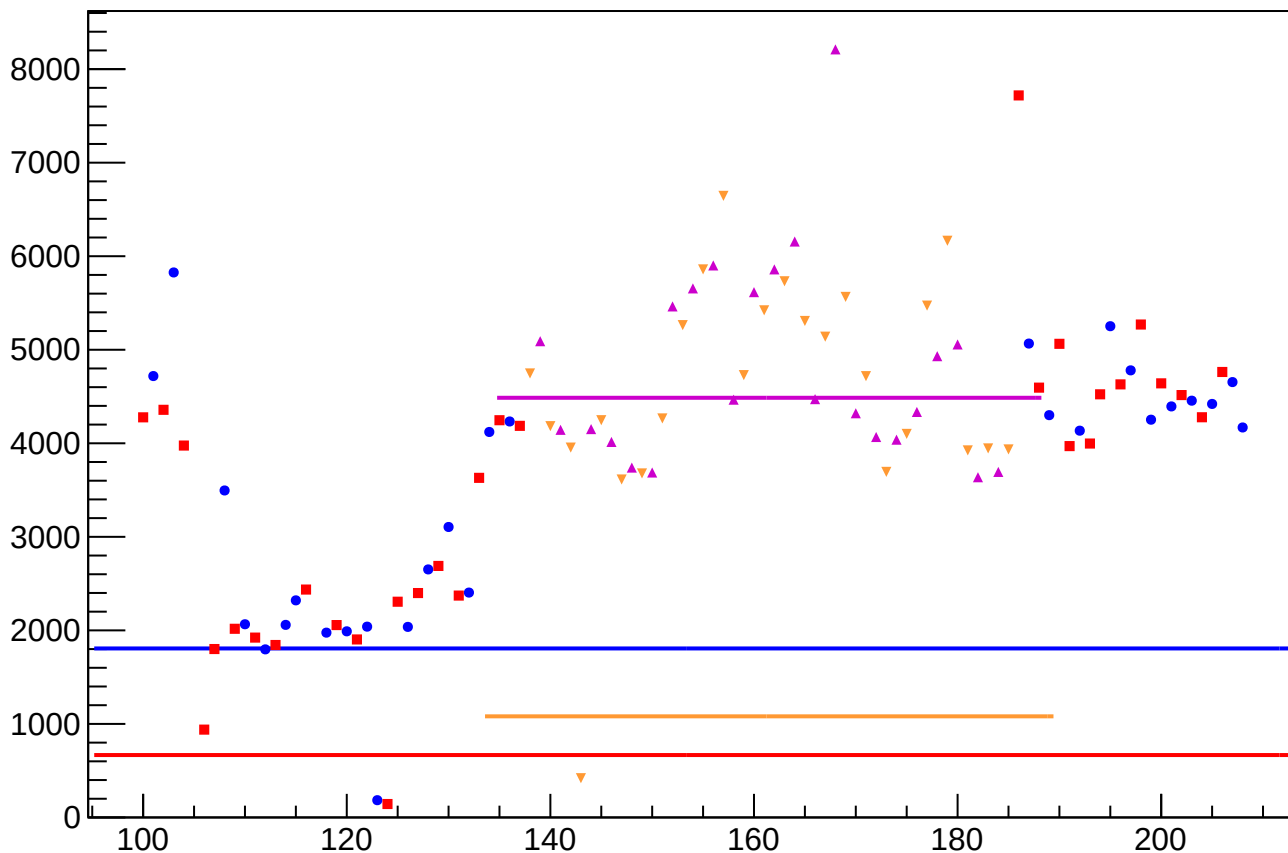
Right: 281.456+/-307.257 χ^2/NDF : 71.4/58

In: 463.964+/-557.140 χ^2/NDF : 43.7/50

Out: 276.393+/-273.562 χ^2/NDF : 75.2/55

All: 312.830+/-245.558 χ^2/NDF : 119.0/106

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1806.757 $\pm$ 0.458

χ^2 /NDF: 13069289.6/27

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right Out: 667.194 $\pm$ 0.247

χ^2 /NDF: 22374360.9/30

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Right: 924.030 $\pm$ 0.217

χ^2 /NDF: 40246609.7/58

In: 2500.716 $\pm$ 0.394

χ^2 /NDF: 23130253.6/50

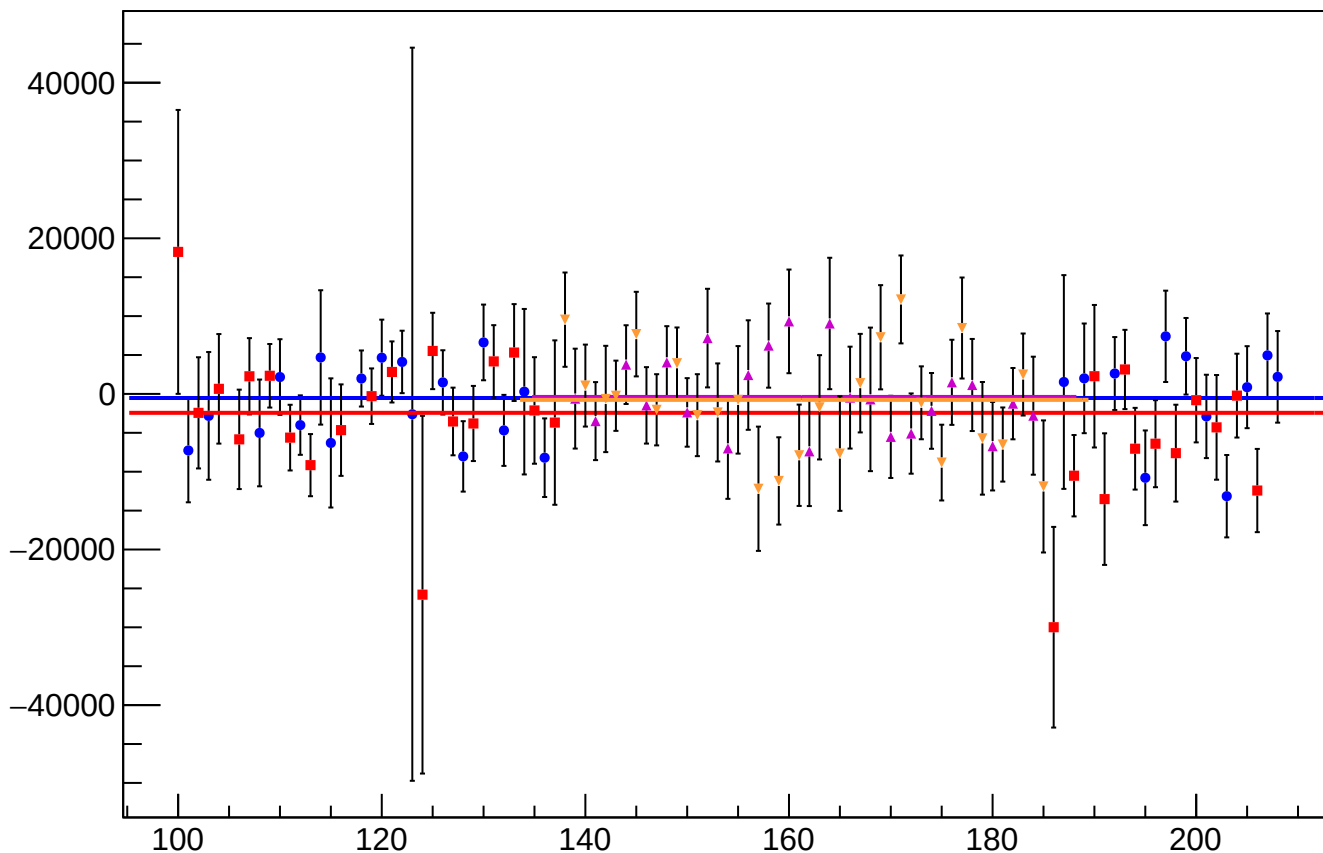
Out: 826.909 $\pm$ 0.193

χ^2 /NDF: 47915184.7/55

All: 1152.059 $\pm$ 0.174

χ^2 /NDF: 85590244.8/100

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -524.564+/-1019.308 χ^2/NDF : 28.4/27

Left Out: -766.008+/-1147.372 χ^2/NDF : 29.9/24

Right Out: -2429.858+/-986.390 χ^2/NDF : 33.0/30

Left In: -388.944+/-1186.300 χ^2/NDF : 14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

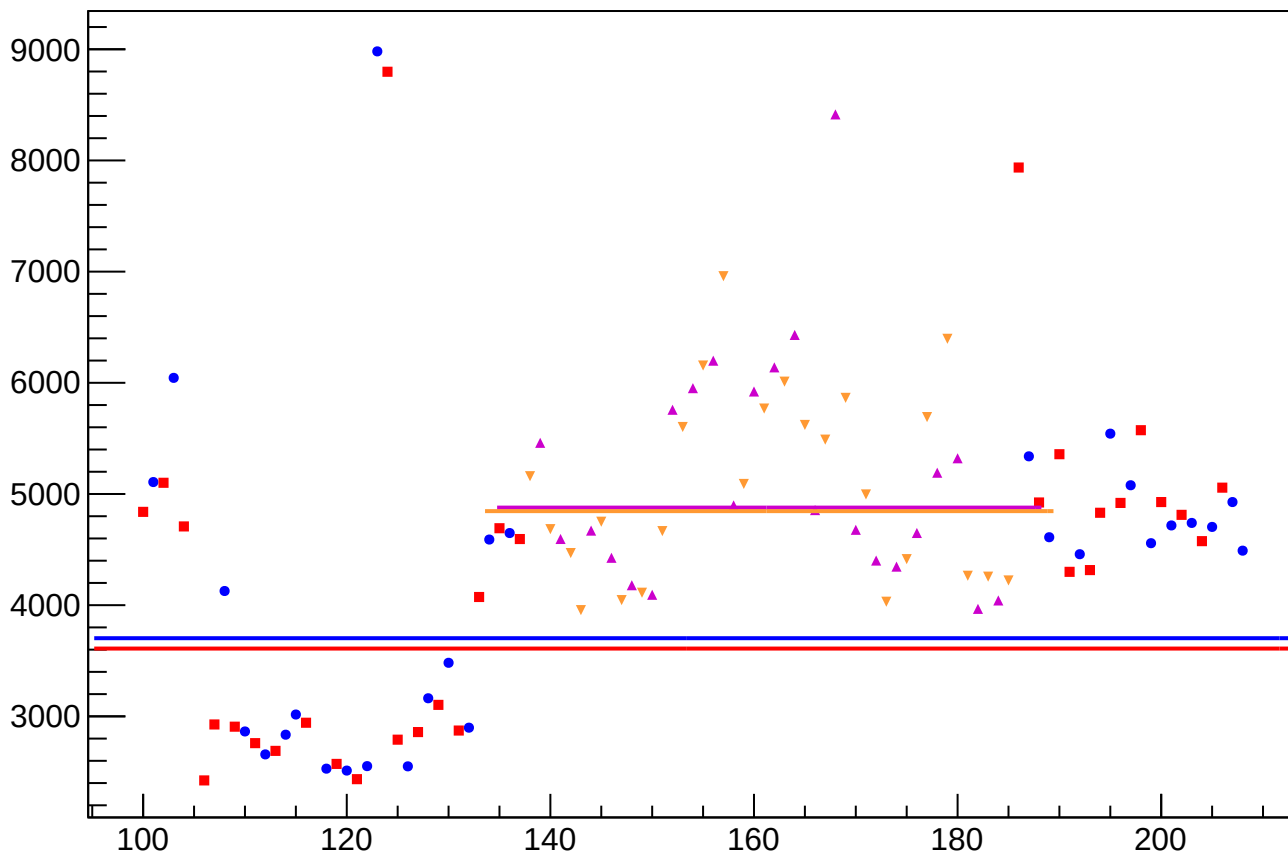
Right: -1508.473+/-708.835 χ^2/NDF : 63.2/58

In: -466.964+/-773.117 χ^2/NDF : 42.6/50

Out: -1722.752+/-747.979 χ^2/NDF : 64.2/55

All: -1115.606+/-537.568 χ^2/NDF : 108.1/106

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3702.891+/-0.721 χ^2/NDF : 2182956.2/27

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3609.733+/-0.691 χ^2/NDF : 2576640.0/30

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

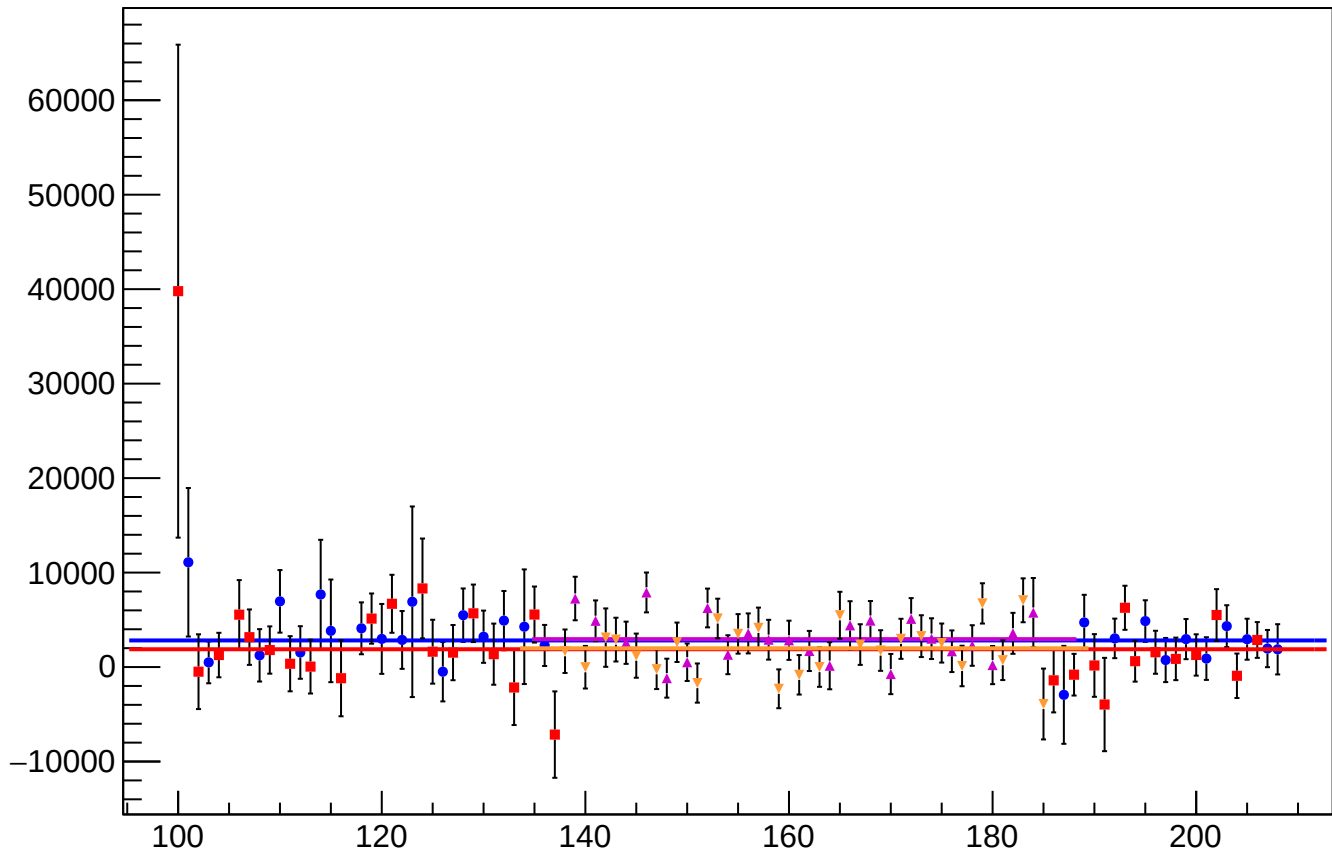
Right: 3654.382+/-0.499 χ^2/NDF : 4768295.2/58

In: 4201.749+/-0.547 χ^2/NDF : 4269494.3/50

Out: 4129.822+/-0.526 χ^2/NDF : 4830259.1/55

All: 4164.418+/-0.379 χ^2/NDF : 9108737.9/10

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2817.947+/-522.818 χ^2/NDF : 12.9/27

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1884.561+/-511.027 χ^2/NDF : 30.3/30

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

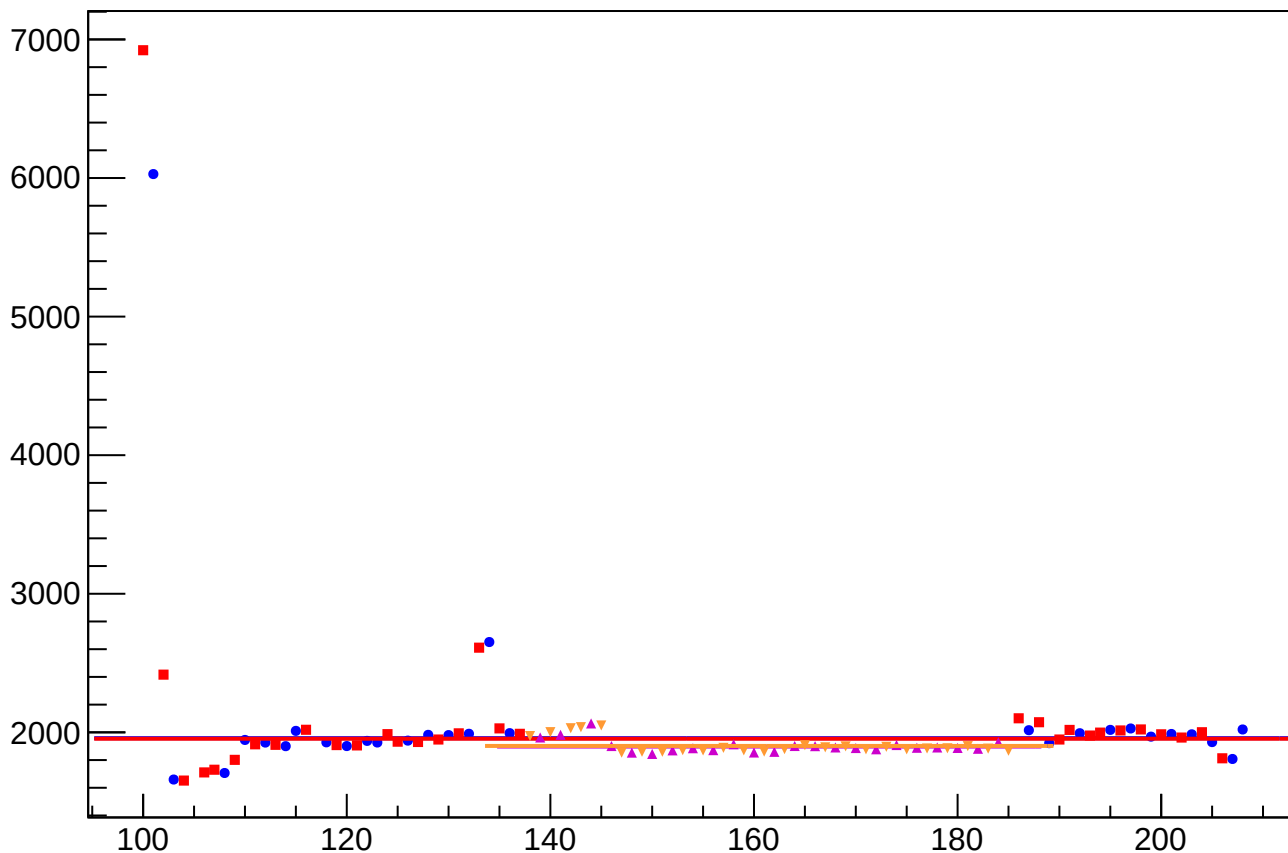
Right: 2340.610+/-365.448 χ^2/NDF : 44.7/58

In: 2896.513+/-343.030 χ^2/NDF : 41.3/50

Out: 1942.153+/-334.816 χ^2/NDF : 62.7/55

All: 2407.770+/-239.602 χ^2/NDF : 108.0/106

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1957.906 $\pm$ 0.370 χ^2 /NDF: 635679.9/27

Left Out: 1901.884 $\pm$ 0.313 χ^2 /NDF: 30446.9/24

Right Out: 1953.938 $\pm$ 0.361 χ^2 /NDF: 247232.1/30

Left In: 1897.456 $\pm$ 0.321 χ^2 /NDF: 21180.1/22

Left: 1899.726 $\pm$ 0.224 χ^2 /NDF: 51724.3/47

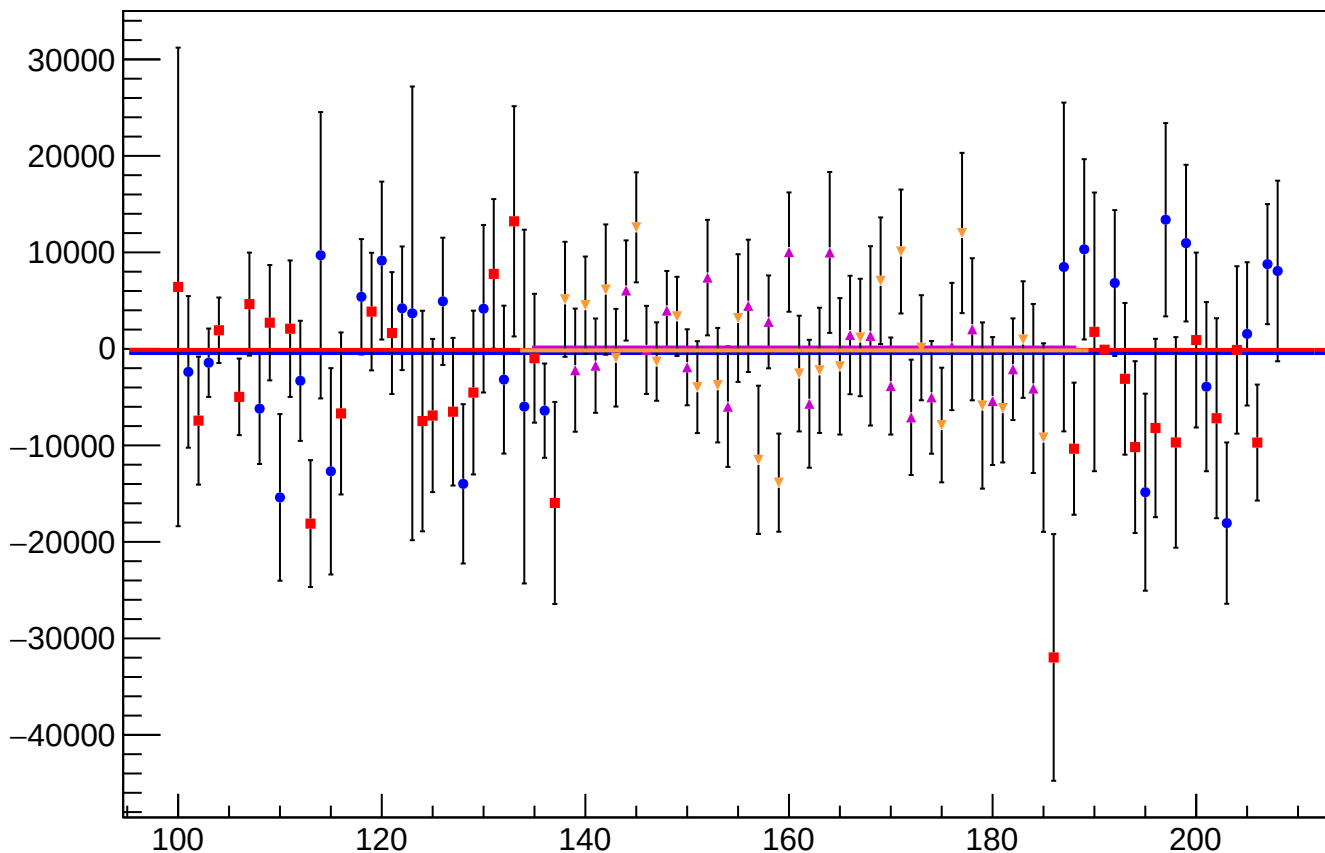
Right: 1955.874 $\pm$ 0.258 χ^2 /NDF: 882971.0/58

In: 1923.479 $\pm$ 0.243 χ^2 /NDF: 672087.1/50

Out: 1924.257 $\pm$ 0.237 χ^2 /NDF: 289537.9/55

All: 1923.878 $\pm$ 0.169 χ^2 /NDF: 961630.3/106

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -426.760 ± 1399.462 $\chi^2/\text{NDF}: 30.5/27$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -106.075 ± 109.551 $\chi^2/\text{NDF}: 34.1/30$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

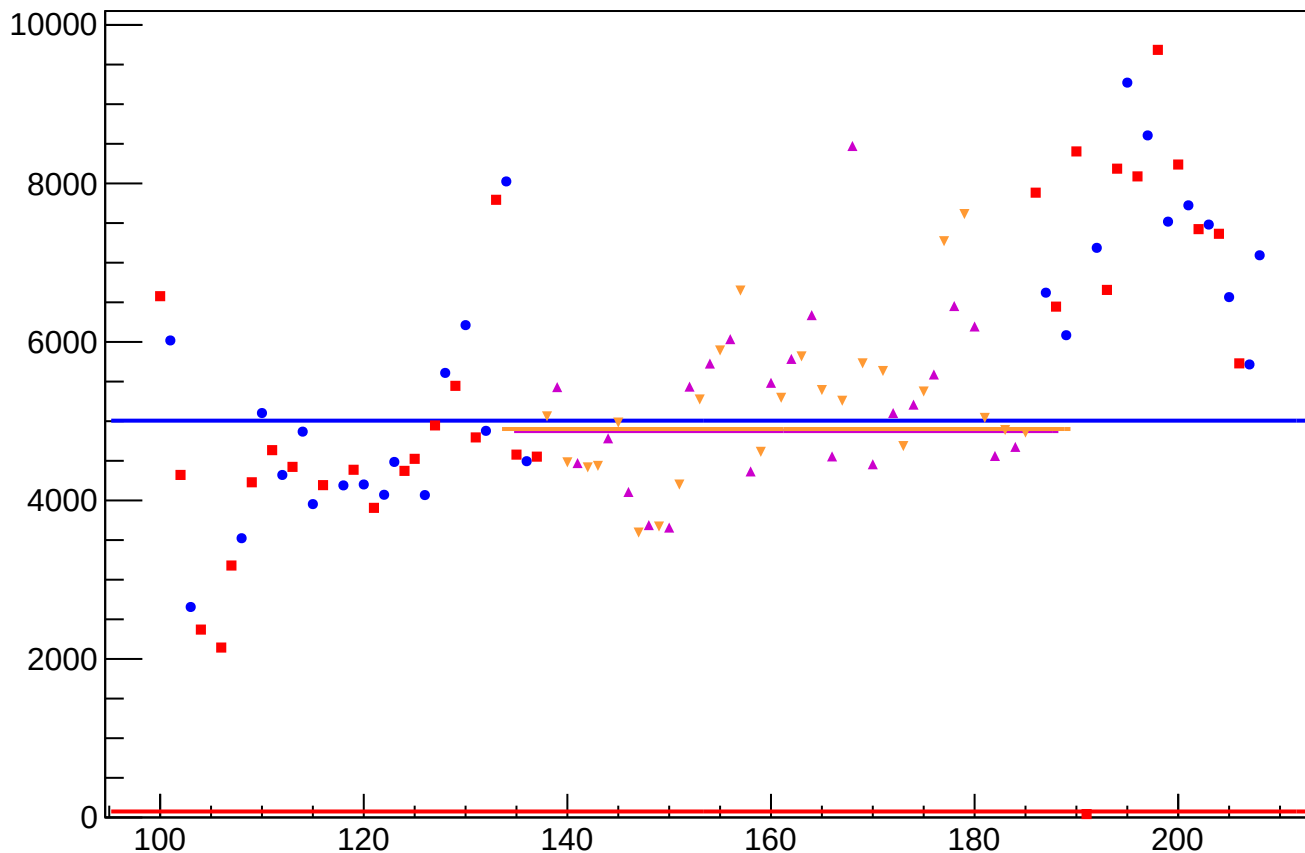
Right: -108.028 ± 109.217 $\chi^2/\text{NDF}: 64.6/58$

In: -98.619 ± 906.955 $\chi^2/\text{NDF}: 45.3/50$

Out: -106.526 ± 109.071 $\chi^2/\text{NDF}: 63.6/55$

All: -106.413 ± 108.291 $\chi^2/\text{NDF}: 108.8/106$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5006.838 $\pm$ 0.990 χ^2 /NDF: 2949558.7/27

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF:1136916.0/24

Right Out: 75.373 $\pm$ 0.077 χ^2 /NDF: 28604980.9/30

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

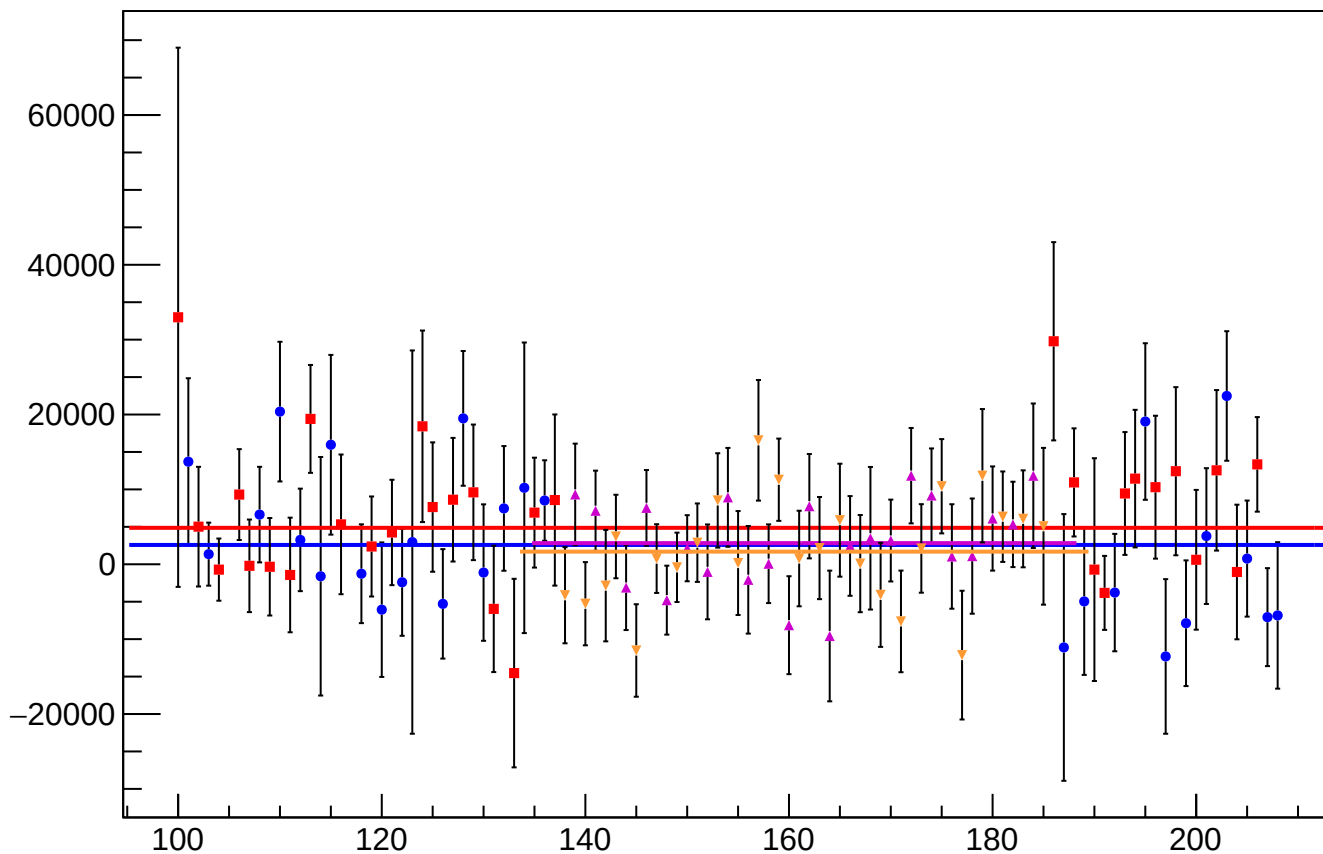
Right: 105.409 $\pm$ 0.077 χ^2 /NDF: 56238033.2/58

In: 4930.437 $\pm$ 0.641 χ^2 /NDF:4189034.0/50

Out: 117.613 $\pm$ 0.077 χ^2 /NDF:63712441.5/55

All: 186.227 $\pm$ 0.077 χ^2 /NDF: 123418069.6/1

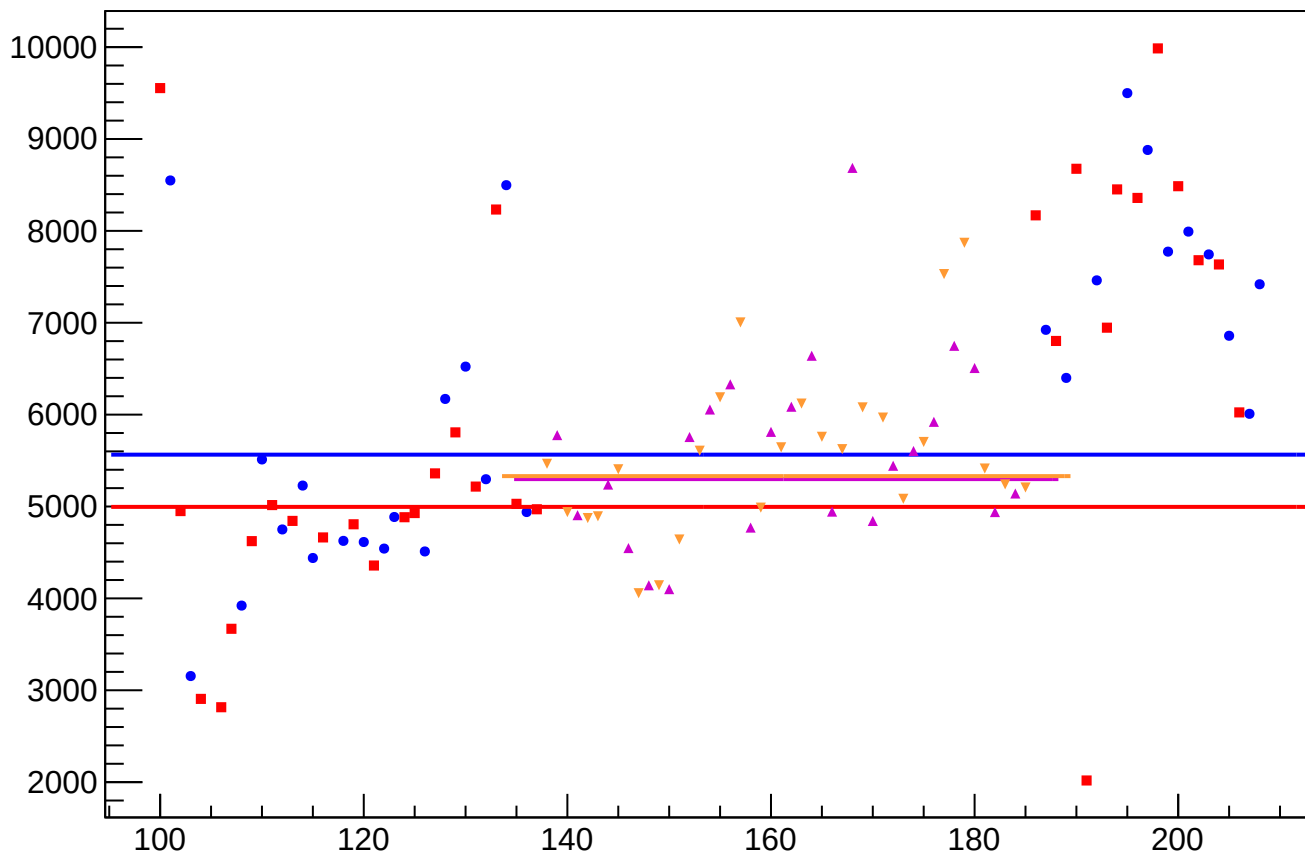
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2581.752 $\pm$ 1538.322 χ^2 /NDF: 31.2/27
 Left Out: 1686.531 $\pm$ 1261.650 χ^2 /NDF: 25.4/24
 Right Out: 4868.030 $\pm$ 1402.533 χ^2 /NDF: 27.1/30
 Left In: 2824.078 $\pm$ 1288.414 χ^2 /NDF: 18.0/22

Left: 2243.367 $\pm$ 901.435 χ^2 /NDF: 43.8/47
 Right: 3830.232 $\pm$ 1036.428 χ^2 /NDF: 59.5/58
 In: 2724.173 $\pm$ 987.738 χ^2 /NDF: 49.2/50
 Out: 3109.512 $\pm$ 937.986 χ^2 /NDF: 55.4/55
 All: 2926.791 $\pm$ 680.165 χ^2 /NDF: 104.7/106

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5564.362+/-1.088

χ^2/NDF : 2409603.5/27

Left: 5314.867+/-0.637

χ^2/NDF : 1824728.8/47

Left Out: 5330.725+/-0.892

χ^2/NDF : 868061.7/24

Right: 5252.887+/-0.731

χ^2/NDF : 6426048.4/58

Right Out: 4995.952+/-0.988

χ^2/NDF : 3866814.4/30

In: 5408.008+/-0.698

χ^2/NDF : 3400779.3/50

Out: 5180.357+/-0.662

χ^2/NDF : 4798125.8/55

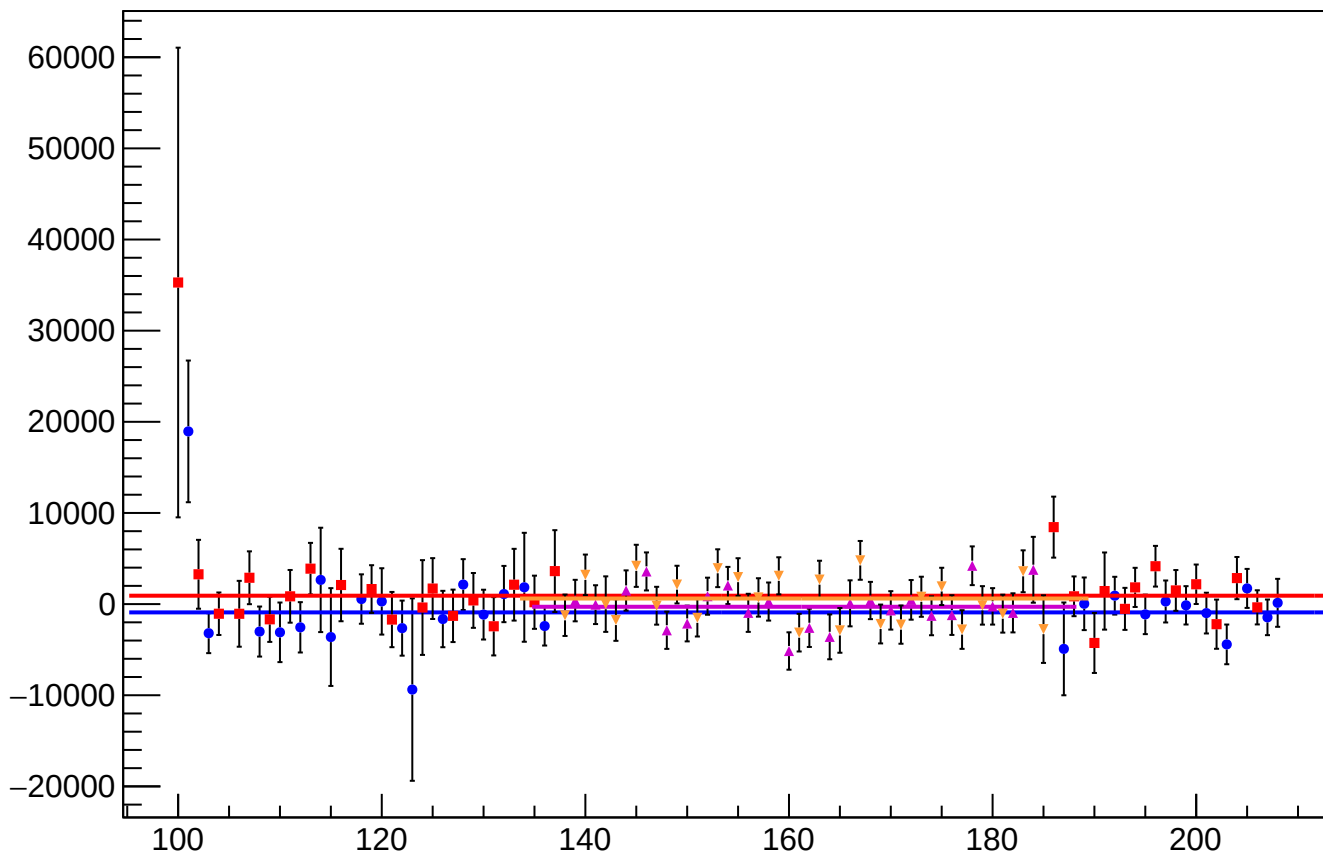
Left In: 5298.329+/-0.911

χ^2/NDF : 956021.6/22

All: 5288.110+/-0.481

χ^2/NDF : 8254859.1/10

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -910.310 ± 516.253 $\chi^2/\text{NDF}: 19.7/27$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 921.259 ± 503.866 $\chi^2/\text{NDF}: 22.2/30$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

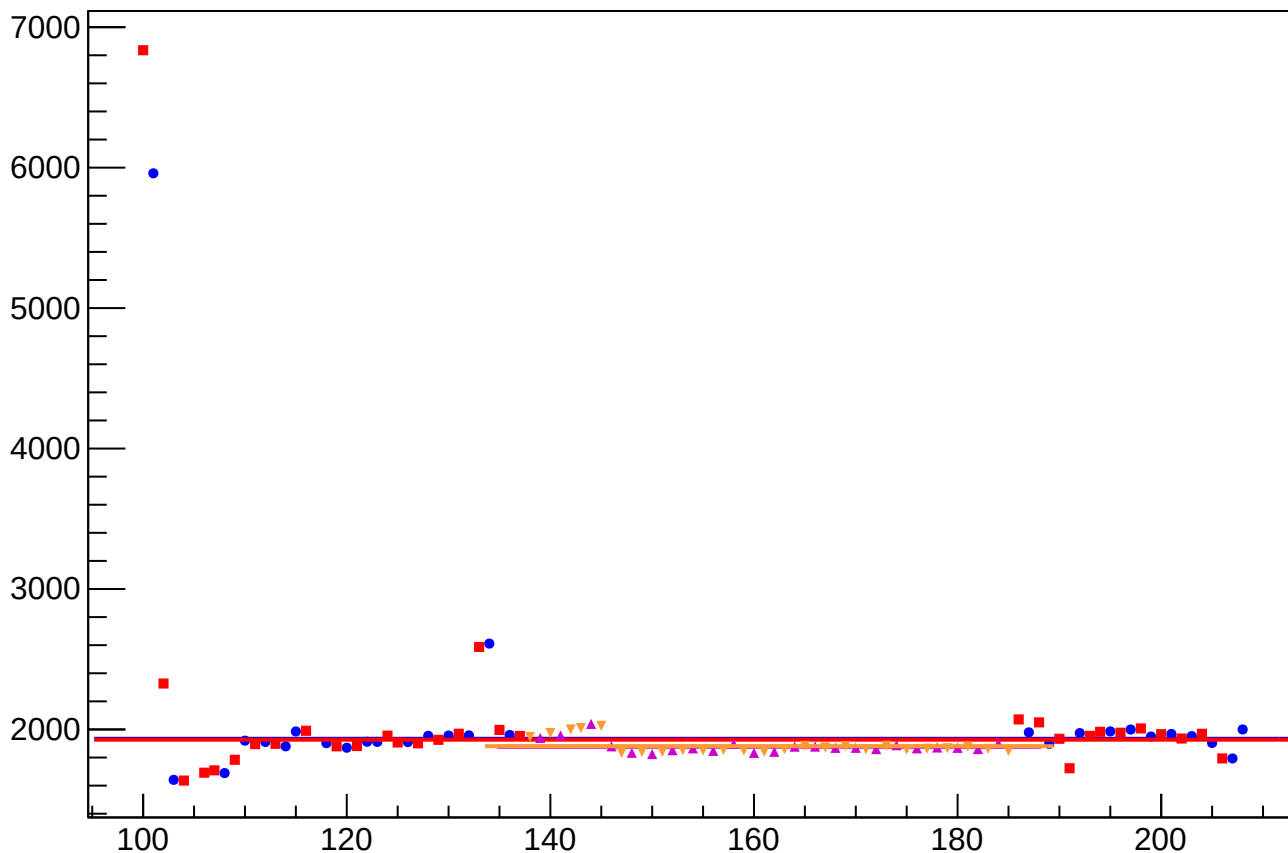
Right: 27.711 ± 360.587 $\chi^2/\text{NDF}: 48.4/58$

In: -559.245 ± 339.037 $\chi^2/\text{NDF}: 44.2/50$

Out: 745.378 ± 330.678 $\chi^2/\text{NDF}: 55.1/55$

All: 109.349 ± 236.725 $\chi^2/\text{NDF}: 106.9/106$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1933.475+/-0.365 χ^2/NDF : 632761.8/27

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1927.101+/-0.356 χ^2/NDF : 245124.0/30

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

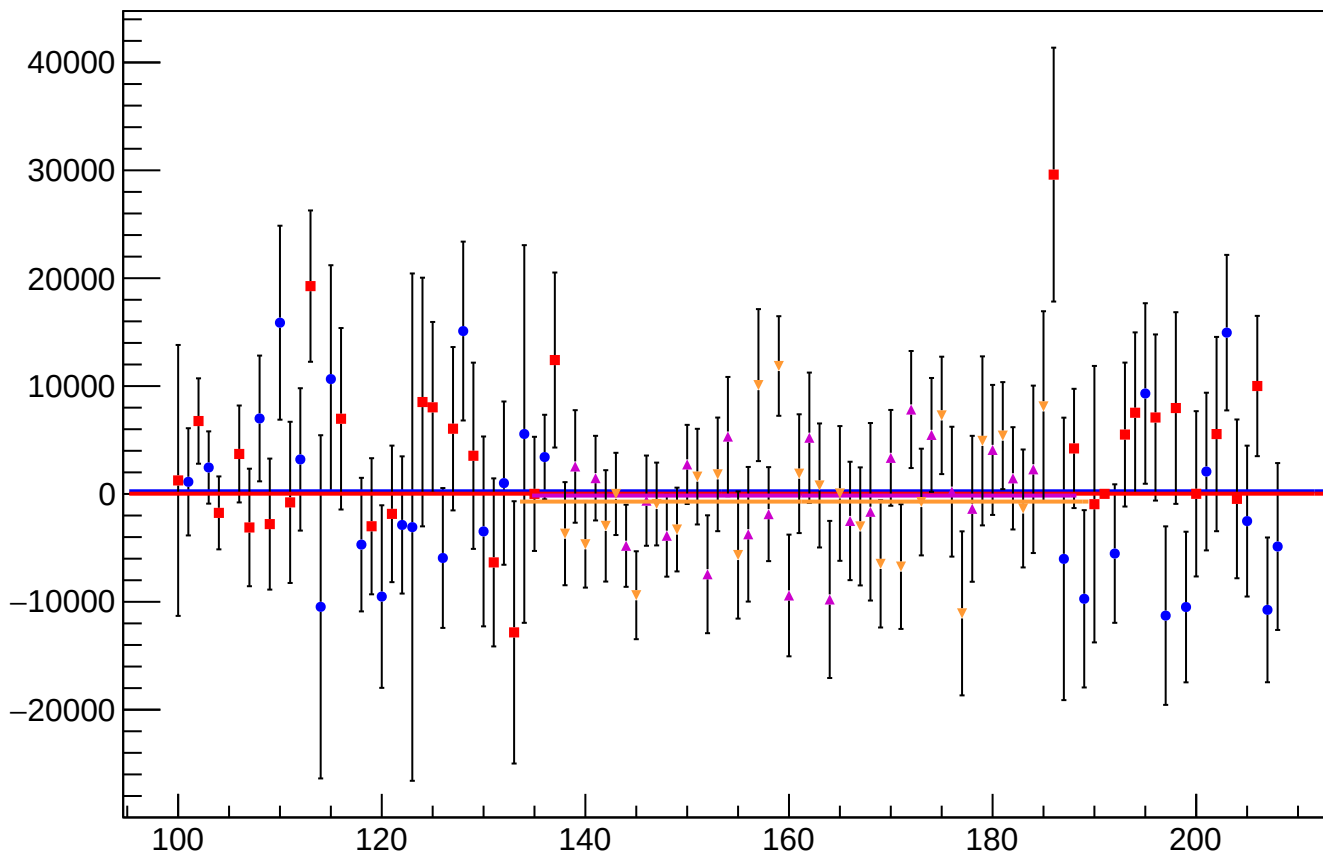
Right: 1930.207+/-0.255 χ^2/NDF : 878042.1/58

In: 1901.178+/-0.240 χ^2/NDF : 667025.6/50

Out: 1900.771+/-0.234 χ^2/NDF : 283402.1/55

All: 1900.969+/-0.167 χ^2/NDF : 950429.2/106

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 247.523 $\pm$ 1288.240 χ^2 /NDF: 29.2/27

Left Out: -707.785 $\pm$ 1017.719 χ^2 /NDF:27.1/24

Right Out: 24.573 $\pm$ 85.796 χ^2 /NDF: 32.4/30

Left In: -150.495 $\pm$ 1053.655 χ^2 /NDF:16.9/22

Left: -438.806 $\pm$ 732.011 χ^2 /NDF: 44.2/47

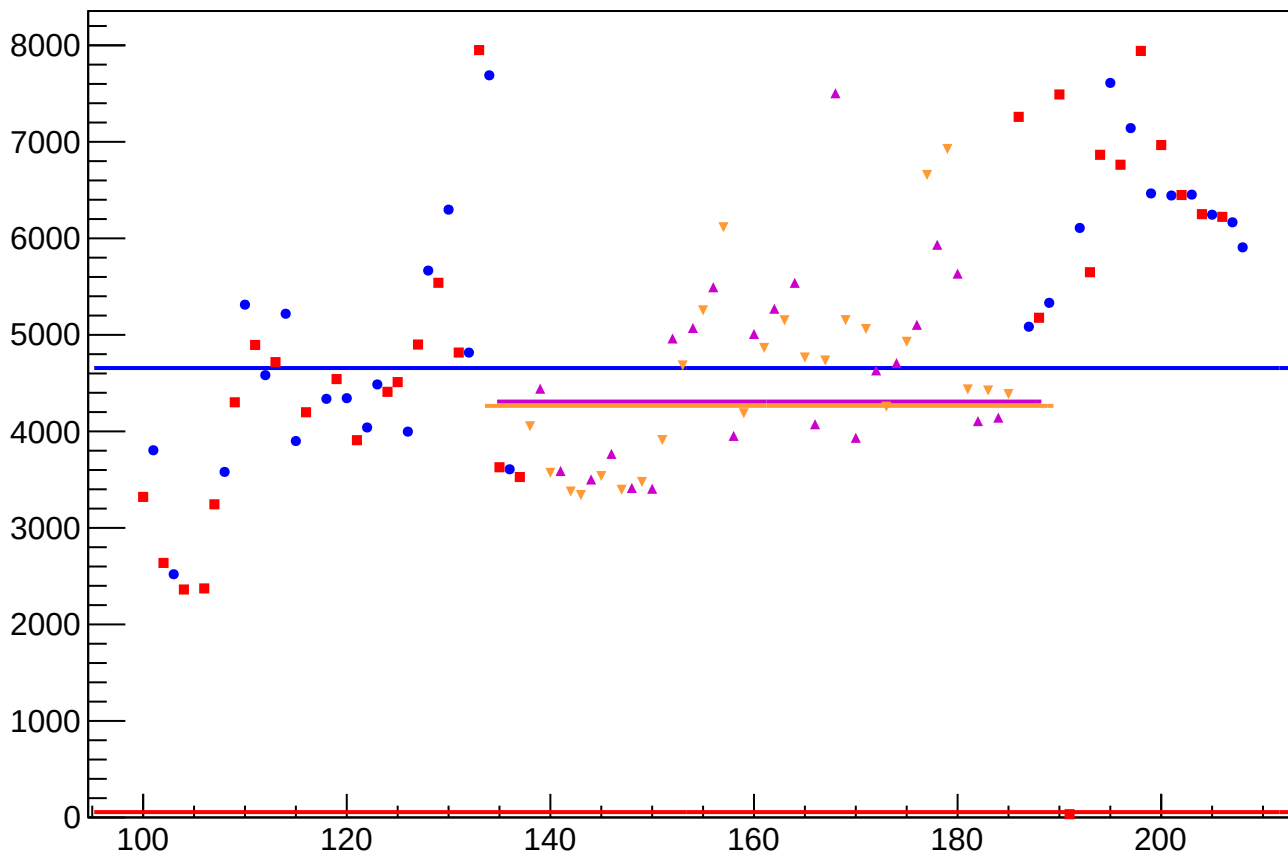
Right: 25.558 $\pm$ 85.607 χ^2 /NDF: 61.7/58

In: 9.041 $\pm$ 815.596 χ^2 /NDF:46.2/50

Out: 19.405 $\pm$ 85.493 χ^2 /NDF:60.1/55

All: 19.293 $\pm$ 85.027 χ^2 /NDF: 106.2/106

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4656.432+/-0.911 χ^2/NDF : 2497550.6/27

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 55.405+/-0.061 χ^2/NDF : 28776814.0/30

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

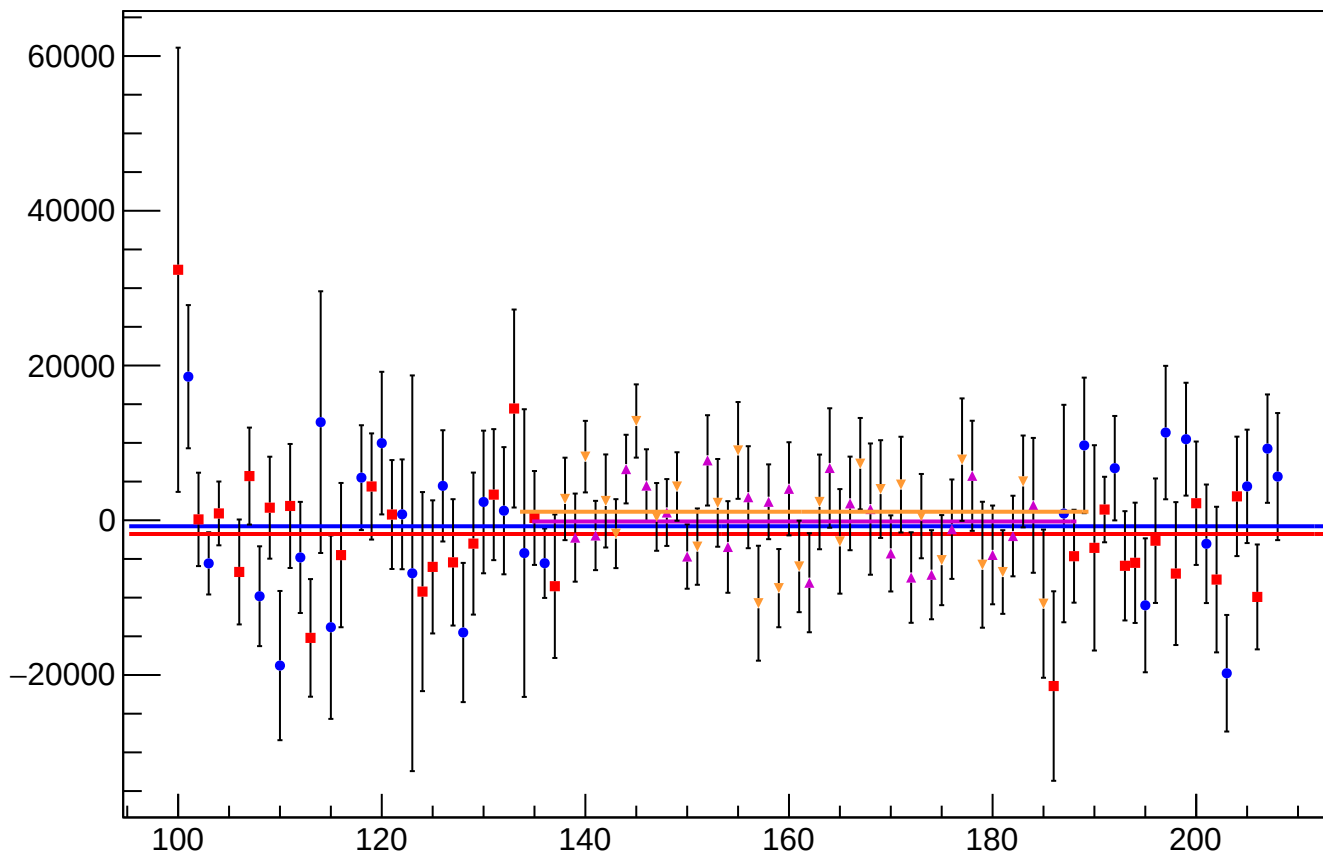
Right: 75.723+/-0.061 χ^2/NDF : 56673778.4/58

In: 4448.280+/-0.577 χ^2/NDF : 3889829.5/50

Out: 85.107+/-0.060 χ^2/NDF : 64099116.1/55

All: 132.528+/-0.060 χ^2/NDF : 124604927.1/100

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -776.517 ± 1446.048 $\chi^2/\text{NDF}: 37.9/27$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1775.559 ± 1319.876 $\chi^2/\text{NDF}: 18.6/30$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

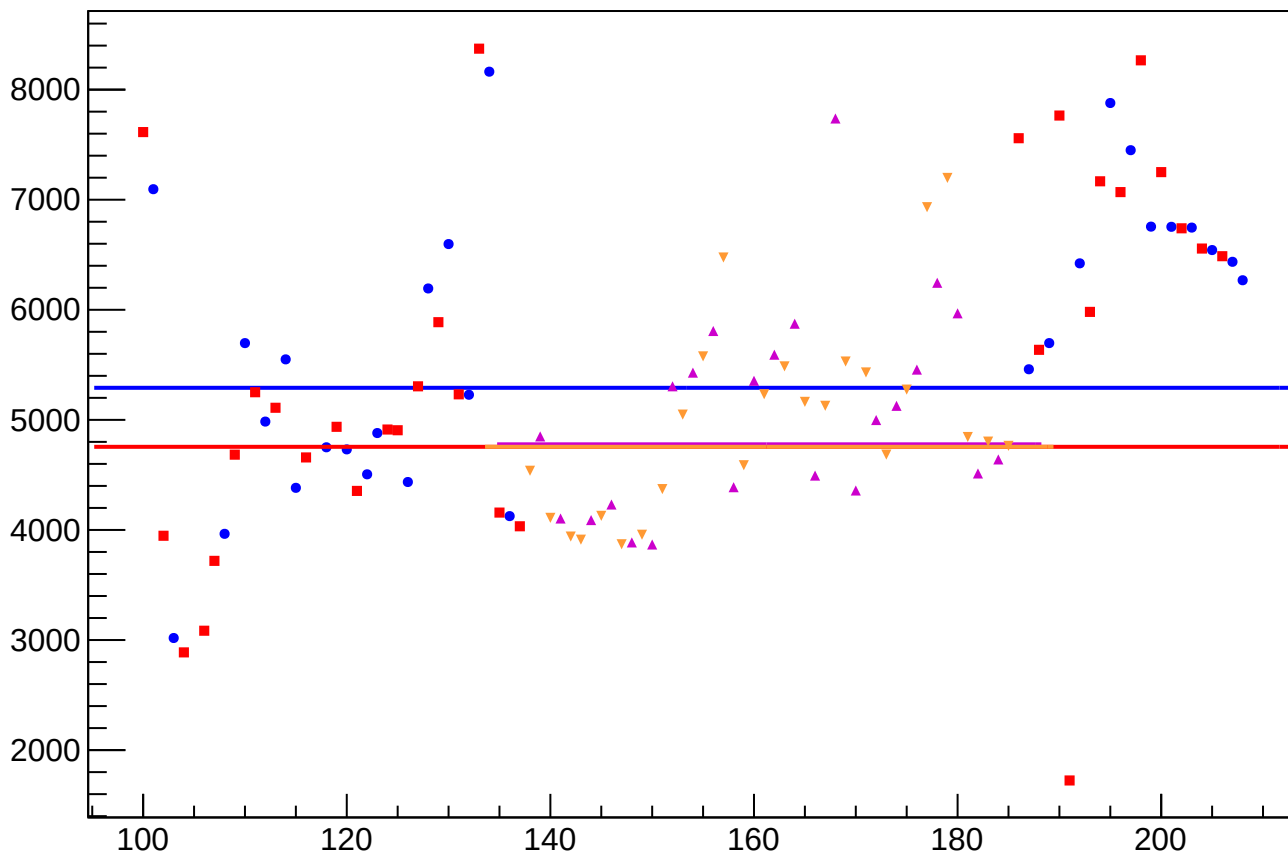
Right: -1321.516 ± 974.853 $\chi^2/\text{NDF}: 56.8/58$

In: -400.974 ± 905.557 $\chi^2/\text{NDF}: 53.6/50$

Out: -110.818 ± 856.919 $\chi^2/\text{NDF}: 49.9/55$

All: -247.895 ± 622.418 $\chi^2/\text{NDF}: 103.6/106$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5291.355+/-1.023 χ^2/NDF : 1868752.9/27

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4755.213+/-0.930 χ^2/NDF : 3429918.2/30

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

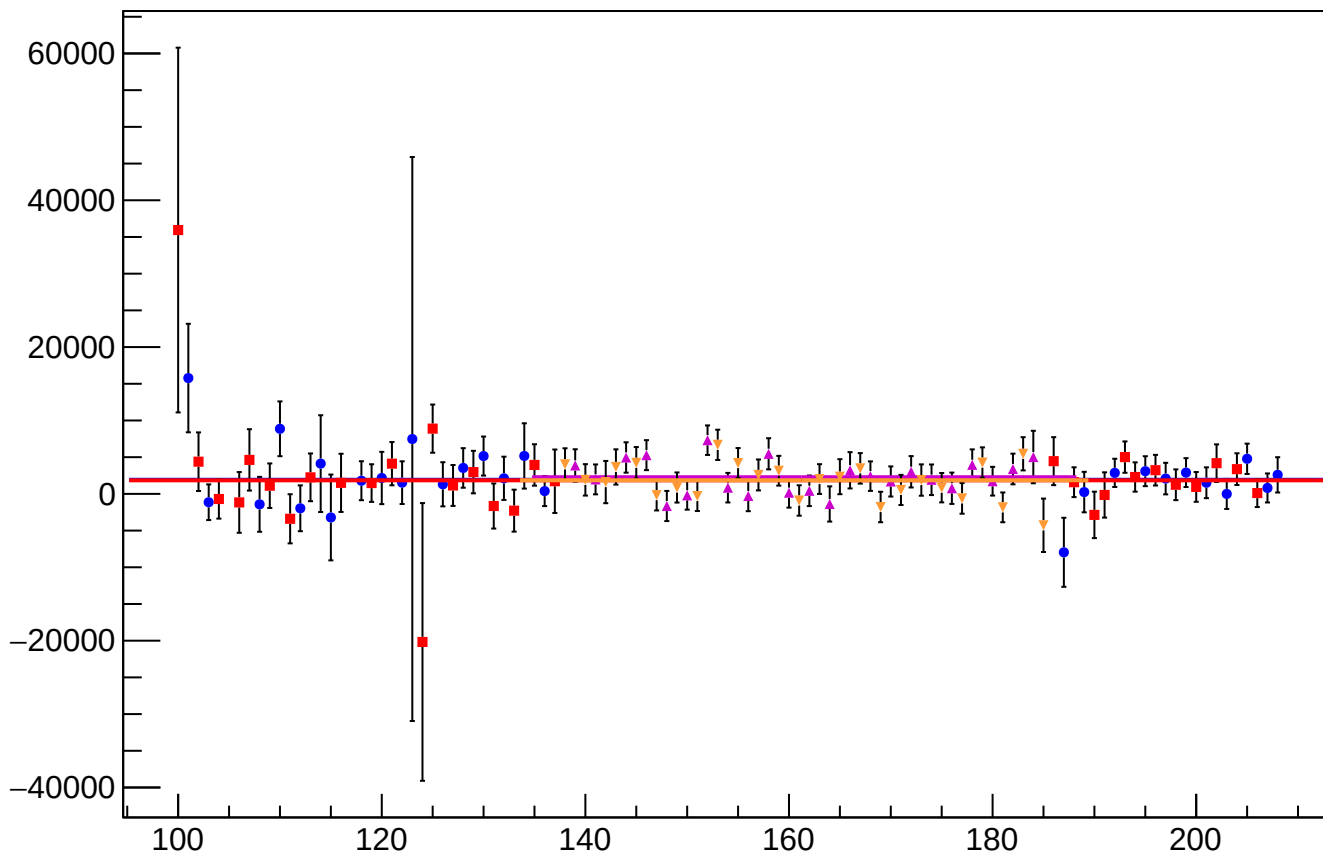
Right: 4997.975+/-0.688 χ^2/NDF : 5449115.5/58

In: 4979.216+/-0.640 χ^2/NDF : 2972355.6/50

Out: 4755.311+/-0.605 χ^2/NDF : 4383246.2/55

All: 4860.929+/-0.440 χ^2/NDF : 7420196.6/100

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1919.220+/-505.641 χ^2/NDF : 23.7/27

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1848.238+/-496.900 χ^2/NDF : 25.8/30

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

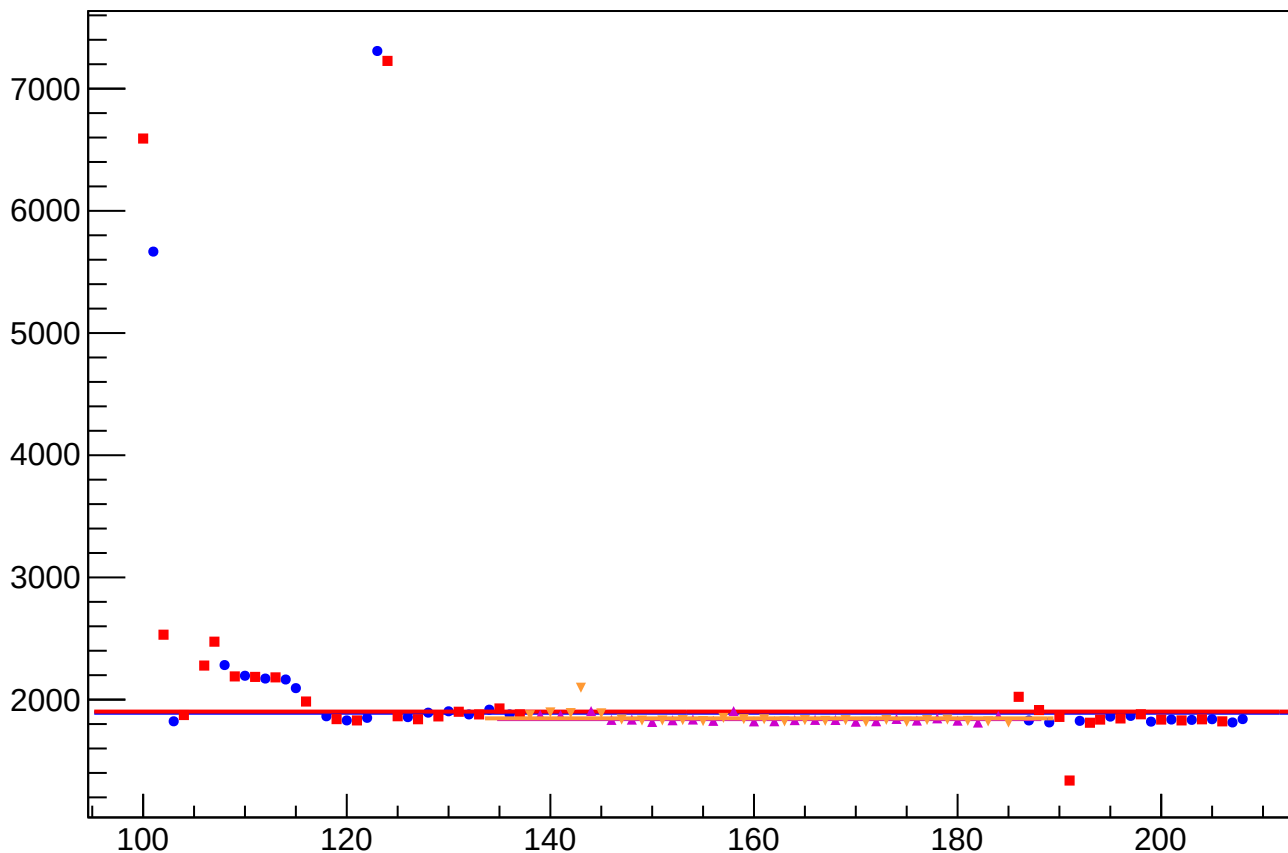
Right: 1883.110+/-354.412 χ^2/NDF : 49.5/58

In: 2117.304+/-332.657 χ^2/NDF :50.8/50

Out: 1852.993+/-325.577 χ^2/NDF :55.8/55

All: 1982.306+/-232.681 χ^2/NDF : 106.9/106

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1892.576+/-0.358 χ^2/NDF : 637670.0/27

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1902.044+/-0.351 χ^2/NDF : 472725.0/30

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

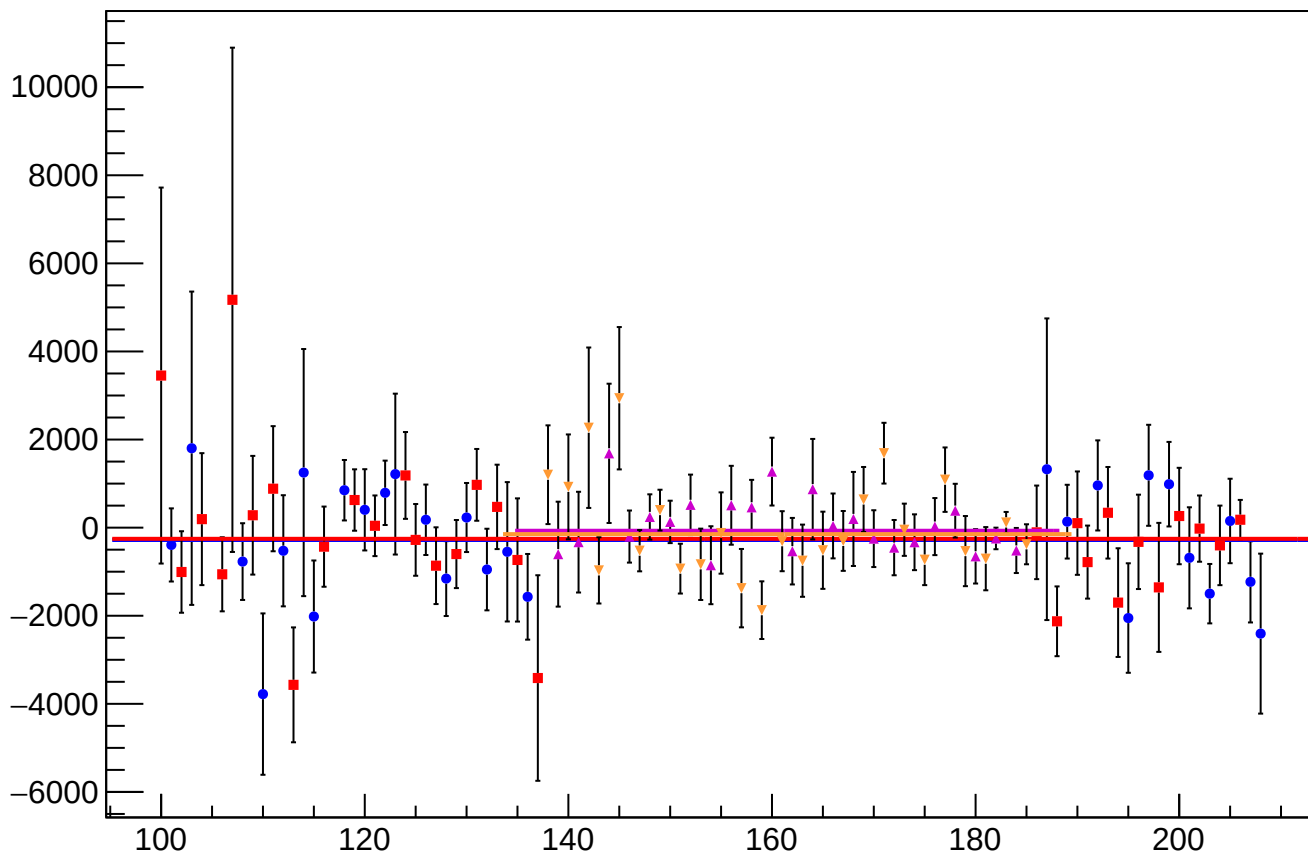
Right: 1897.392+/-0.251 χ^2/NDF : 1110751.7/58

In: 1863.063+/-0.235 χ^2/NDF : 656422.9/50

Out: 1870.404+/-0.230 χ^2/NDF : 514236.8/55

All: 1866.812+/-0.165 χ^2/NDF : 1171157.1/10

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -280.124 ± 190.094 $\chi^2/\text{NDF}: 30.1/27$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -253.487 ± 168.342 $\chi^2/\text{NDF}: 29.7/30$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

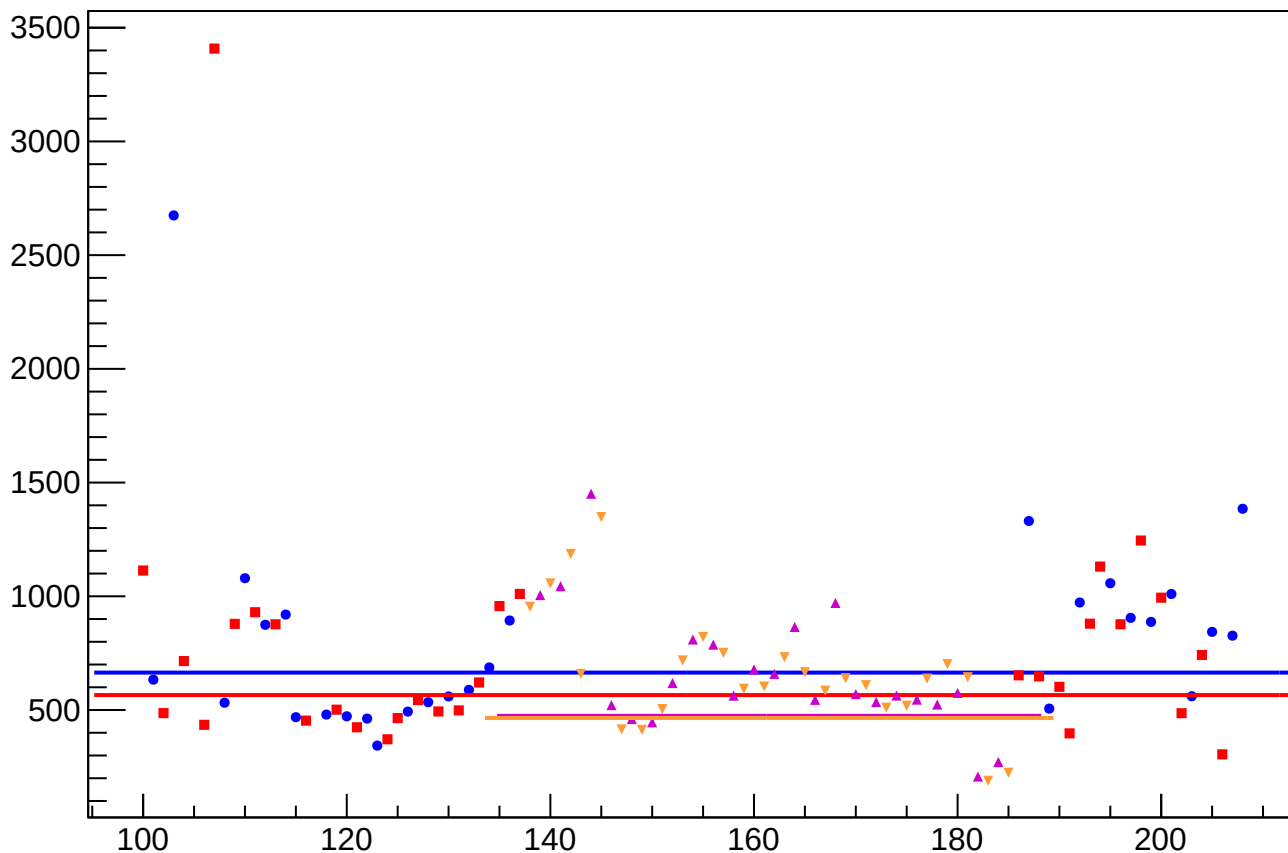
Right: -265.195 ± 126.028 $\chi^2/\text{NDF}: 59.8/58$

In: -134.638 ± 105.240 $\chi^2/\text{NDF}: 43.2/50$

Out: -183.662 ± 98.777 $\chi^2/\text{NDF}: 67.6/55$

All: -160.701 ± 72.022 $\chi^2/\text{NDF}: 110.9/106$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 664.533 ± 0.134 $\chi^2/\text{NDF}: 3055964.4/27$

Left Out: 465.080 ± 0.086 $\chi^2/\text{NDF}: 7086137.6/24$

Right Out: 565.674 ± 0.119 $\chi^2/\text{NDF}: 3866401.1/30$

Left In: 474.263 ± 0.089 $\chi^2/\text{NDF}: 6173100.1/22$

Left: 469.509 ± 0.062 $\chi^2/\text{NDF}: 13264703.6/47$

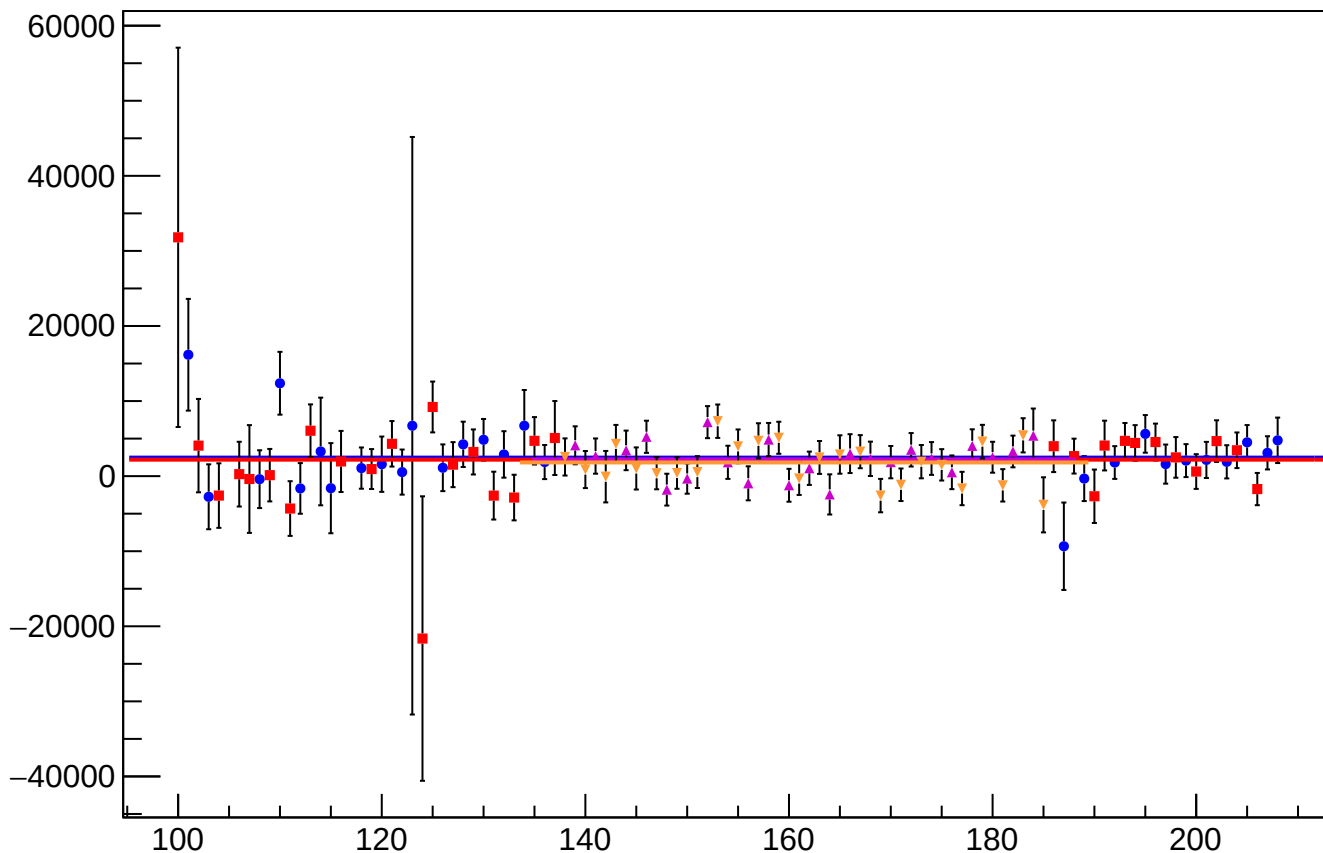
Right: 609.126 ± 0.089 $\chi^2/\text{NDF}: 7225521.9/58$

In: 532.579 ± 0.074 $\chi^2/\text{NDF}: 10618645.3/50$

Out: 499.714 ± 0.070 $\chi^2/\text{NDF}: 11420813.0/55$

All: 515.107 ± 0.051 $\chi^2/\text{NDF}: 22143152.1/100$

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2466.773+/-569.759 χ^2/NDF : 24.2/27

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2195.393+/-561.482 χ^2/NDF : 30.8/30

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

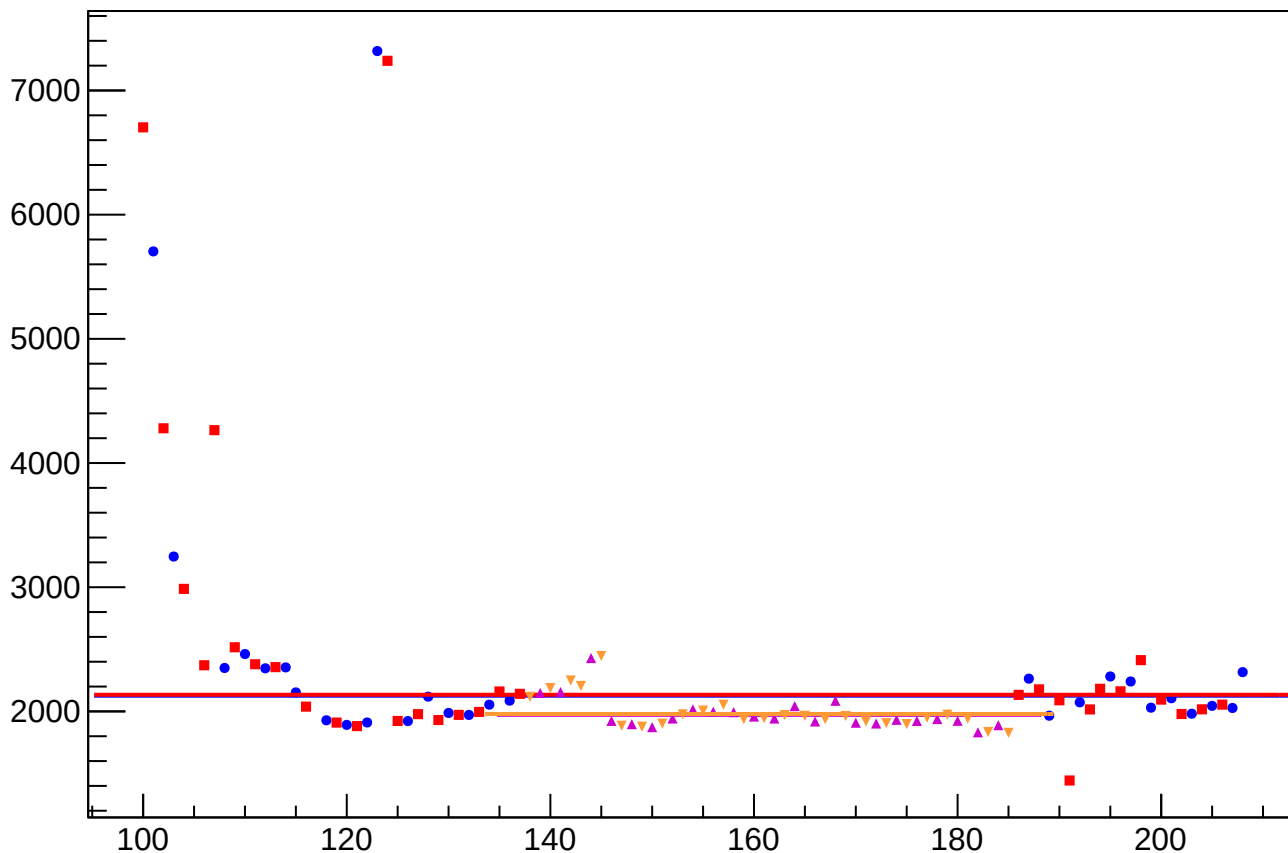
Right: 2329.098+/-399.922 χ^2/NDF : 55.1/58

In: 2313.924+/-364.411 χ^2/NDF : 49.7/50

Out: 1974.243+/-357.075 χ^2/NDF : 63.2/55

All: 2140.630+/-255.044 χ^2/NDF : 113.3/106

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.547 $\pm$ 0.403 χ^2 /NDF: 758503.1/27

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2133.968 $\pm$ 0.397 χ^2 /NDF: 941538.2/30

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

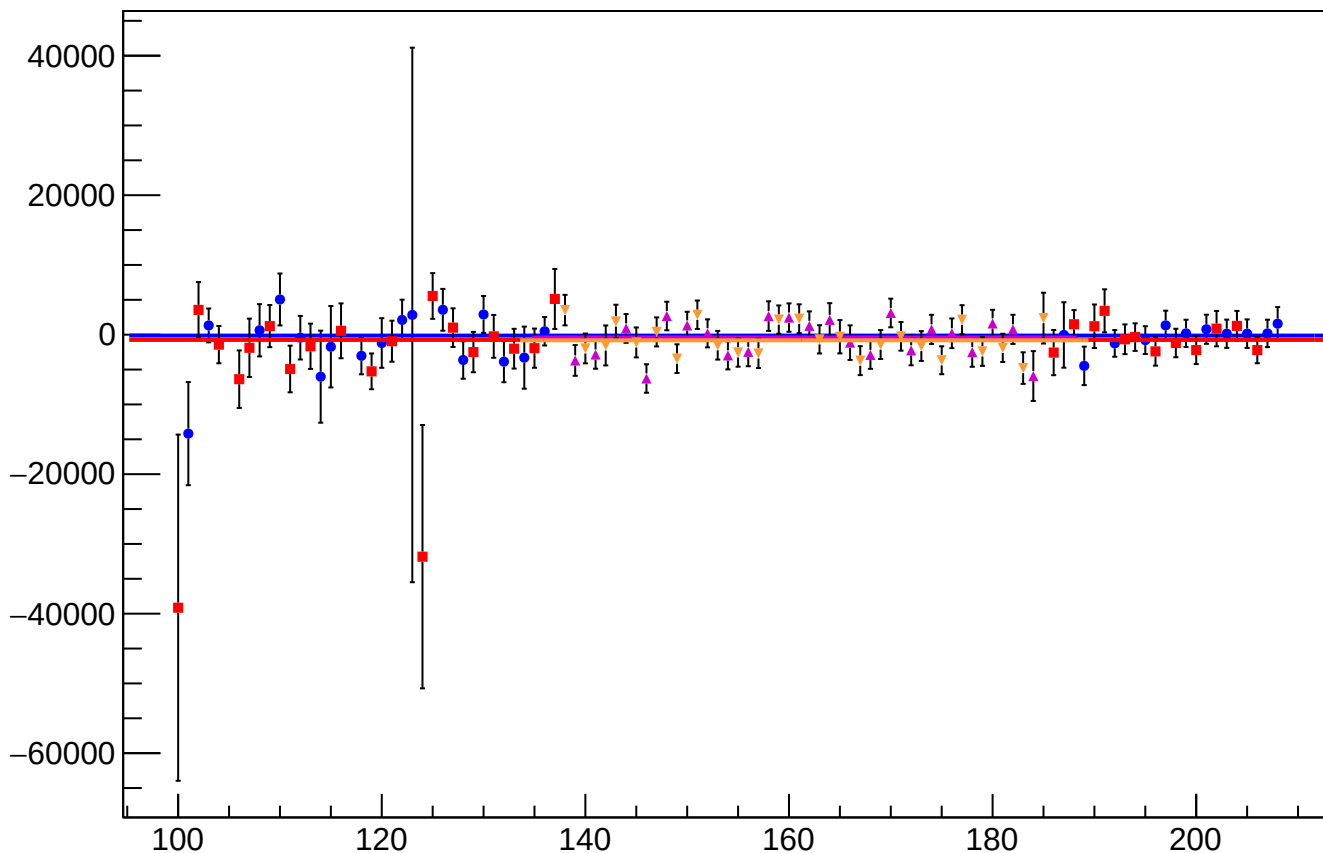
Right: 2130.312 $\pm$ 0.283 χ^2 /NDF: 1700213.5/58

In: 2035.319 $\pm$ 0.258 χ^2 /NDF:961724.7/50

Out: 2041.673 $\pm$ 0.252 χ^2 /NDF:1171576.2/55

All: 2038.560 $\pm$ 0.180 χ^2 /NDF: 2133611.0/10

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -131.148+/-502.277 χ^2/NDF : 19.7/27

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -749.550+/-493.525 χ^2/NDF : 27.2/30

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

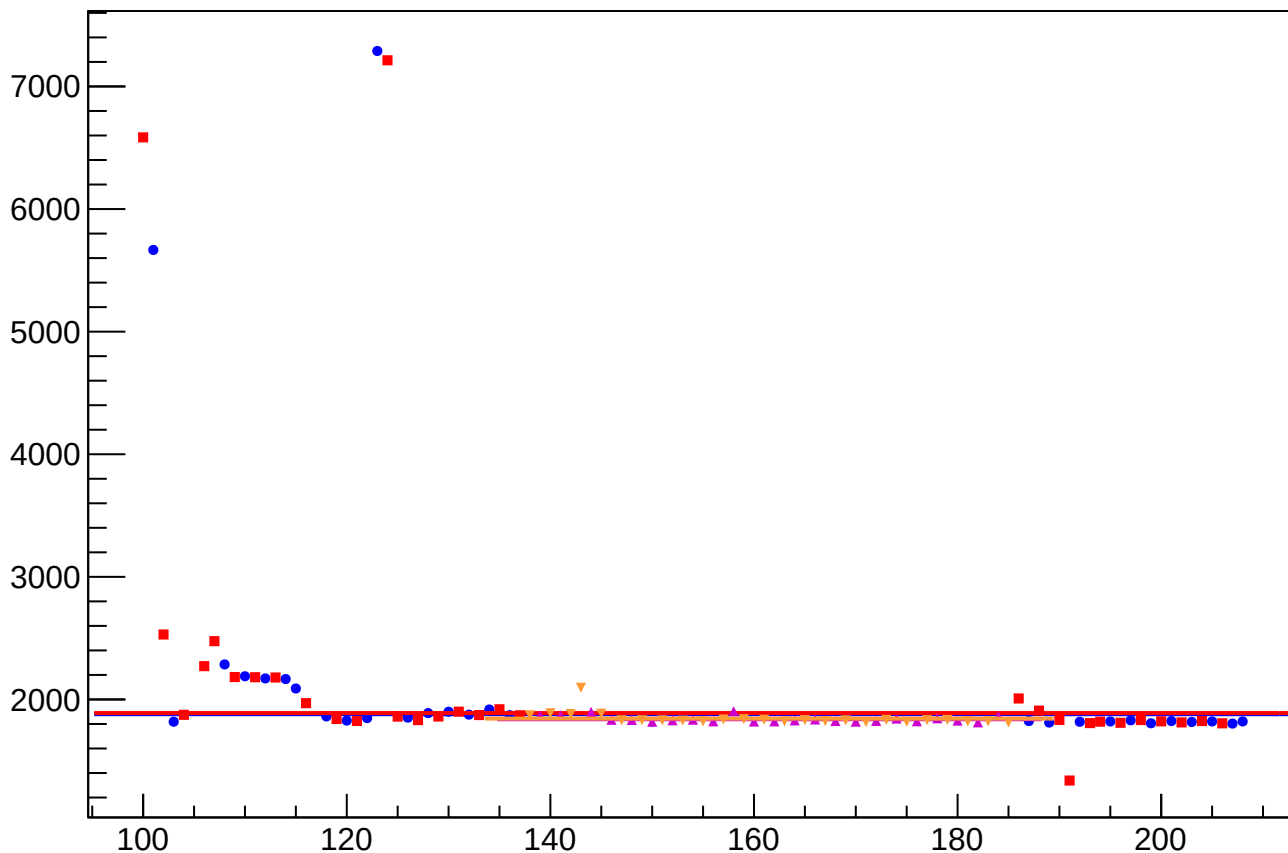
Right: -445.784+/-352.028 χ^2/NDF : 47.6/58

In: -282.213+/-331.497 χ^2/NDF : 54.2/50

Out: -783.004+/-324.334 χ^2/NDF : 55.1/55

All: -538.077+/-231.830 χ^2/NDF : 110.5/106

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1879.685 $\pm$ 0.355 χ^2 /NDF: 647193.2/27

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1888.911 $\pm$ 0.349 χ^2 /NDF: 480101.5/30

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

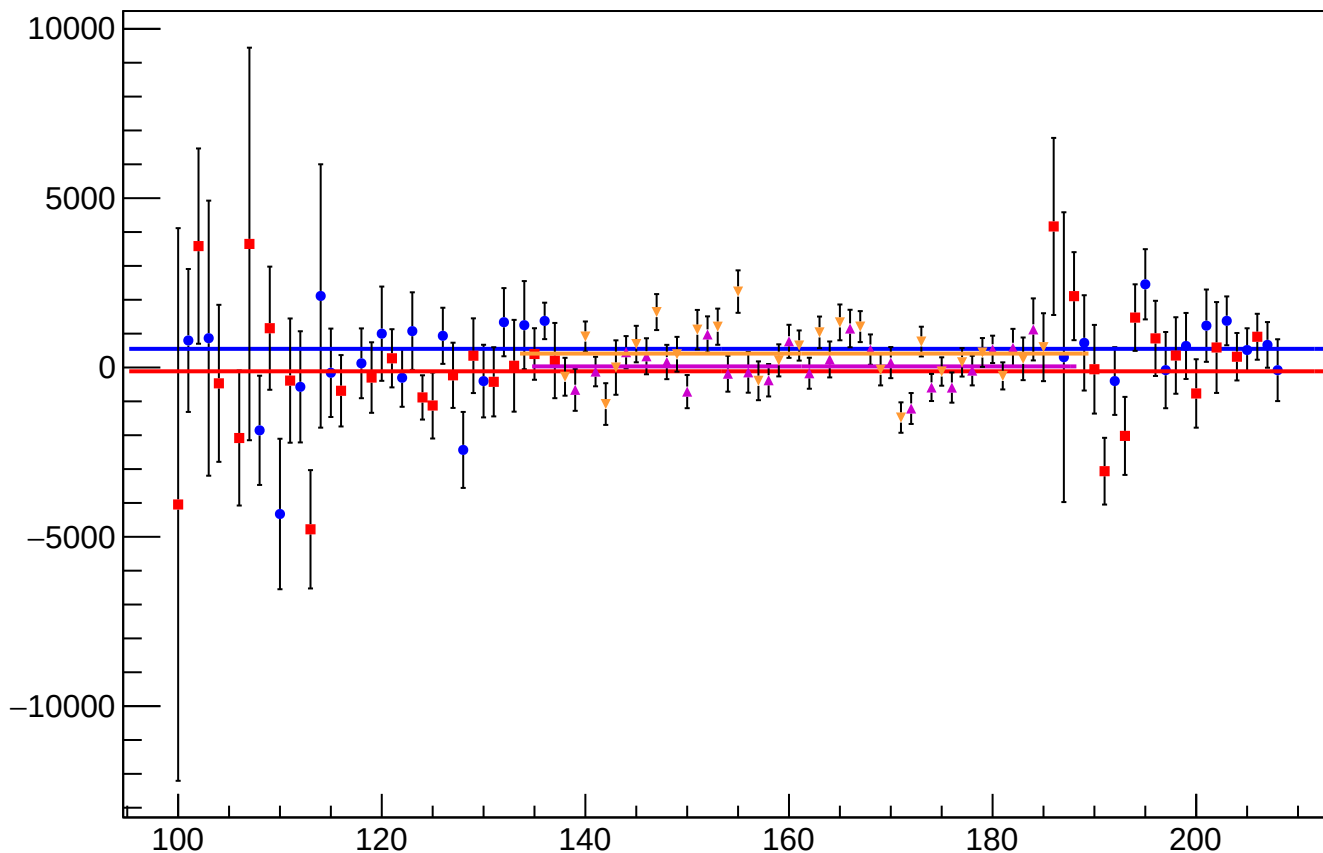
Right: 1884.379 $\pm$ 0.249 χ^2 /NDF: 1127638.0/58

In: 1856.502 $\pm$ 0.234 χ^2 /NDF: 661077.0/50

Out: 1863.252 $\pm$ 0.229 χ^2 /NDF: 516484.5/55

All: 1859.951 $\pm$ 0.164 χ^2 /NDF: 1177985.2/10

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 550.664 $\pm$ 193.983 χ^2 /NDF: 27.6/27

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -112.515 $\pm$ 197.953 χ^2 /NDF: 38.9/30

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF:32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

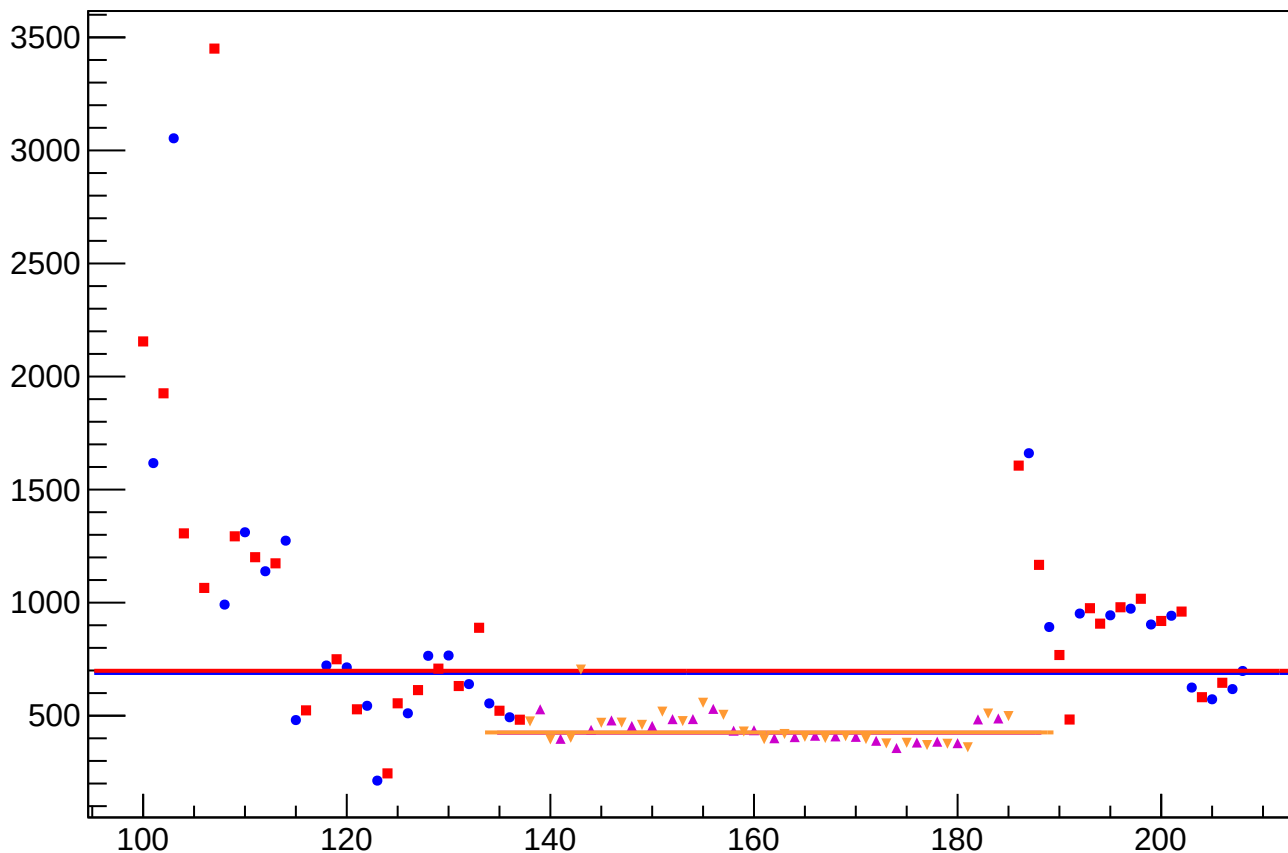
Right: 225.791 $\pm$ 138.549 χ^2 /NDF: 72.3/58

In: 145.396 $\pm$ 90.559 χ^2 /NDF:66.0/50

Out: 303.846 $\pm$ 89.581 χ^2 /NDF:105.7/55

All: 225.481 $\pm$ 63.686 χ^2 /NDF: 173.2/106

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 689.018 $\pm$ 0.137 χ^2 /NDF: 3191435.6/27

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF:733072.9/24

Right Out: 698.637 $\pm$ 0.140 χ^2 /NDF: 4320831.7/30

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF:391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

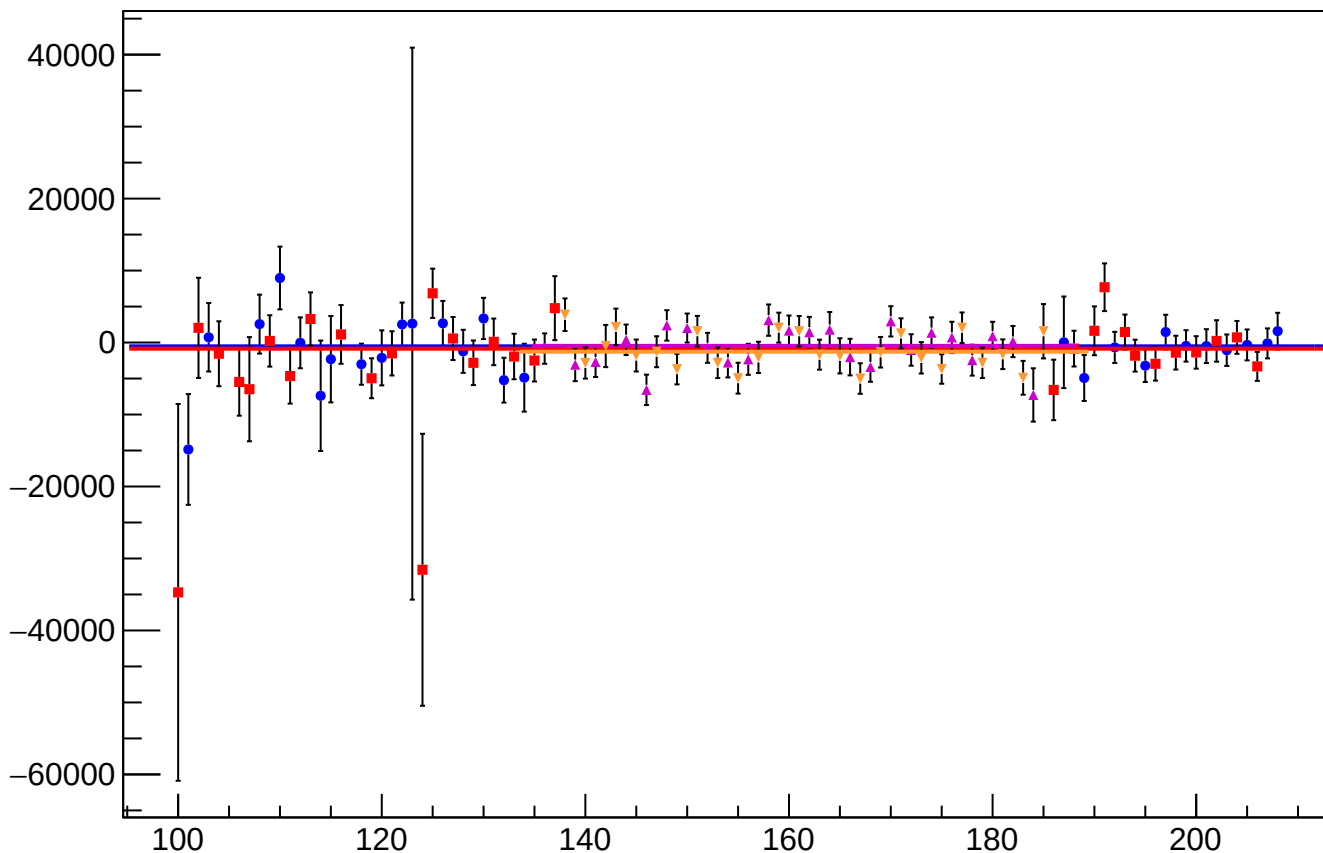
Right: 693.730 $\pm$ 0.098 χ^2 /NDF: 7514676.3/58

In: 482.258 $\pm$ 0.064 χ^2 /NDF:6488398.5/50

Out: 481.855 $\pm$ 0.063 χ^2 /NDF:8070178.7/55

All: 482.054 $\pm$ 0.045 χ^2 /NDF: 14558597.2/10

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -526.258+/-557.707 χ^2/NDF : 22.6/27

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -852.763+/-558.051 χ^2/NDF : 31.8/30

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

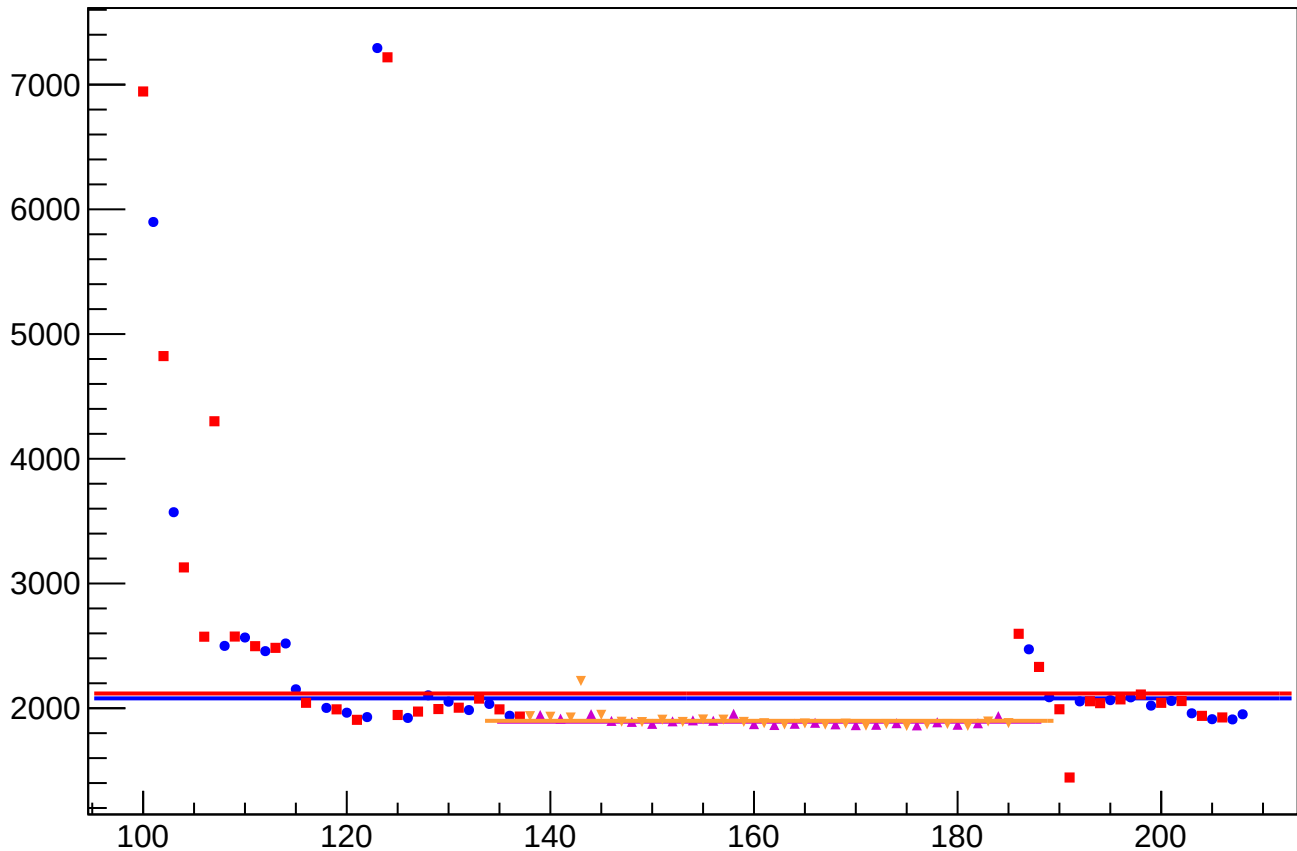
Right: -689.410+/-394.480 χ^2/NDF : 54.6/58

In: -487.968+/-352.064 χ^2/NDF :55.2/50

Out: -1107.315+/-347.071 χ^2/NDF :63.0/55

All: -802.064+/-247.163 χ^2/NDF : 119.7/106

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2078.881+/-0.394 χ^2/NDF : 873143.6/27

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2118.080+/-0.395 χ^2/NDF : 1090972.8/30

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

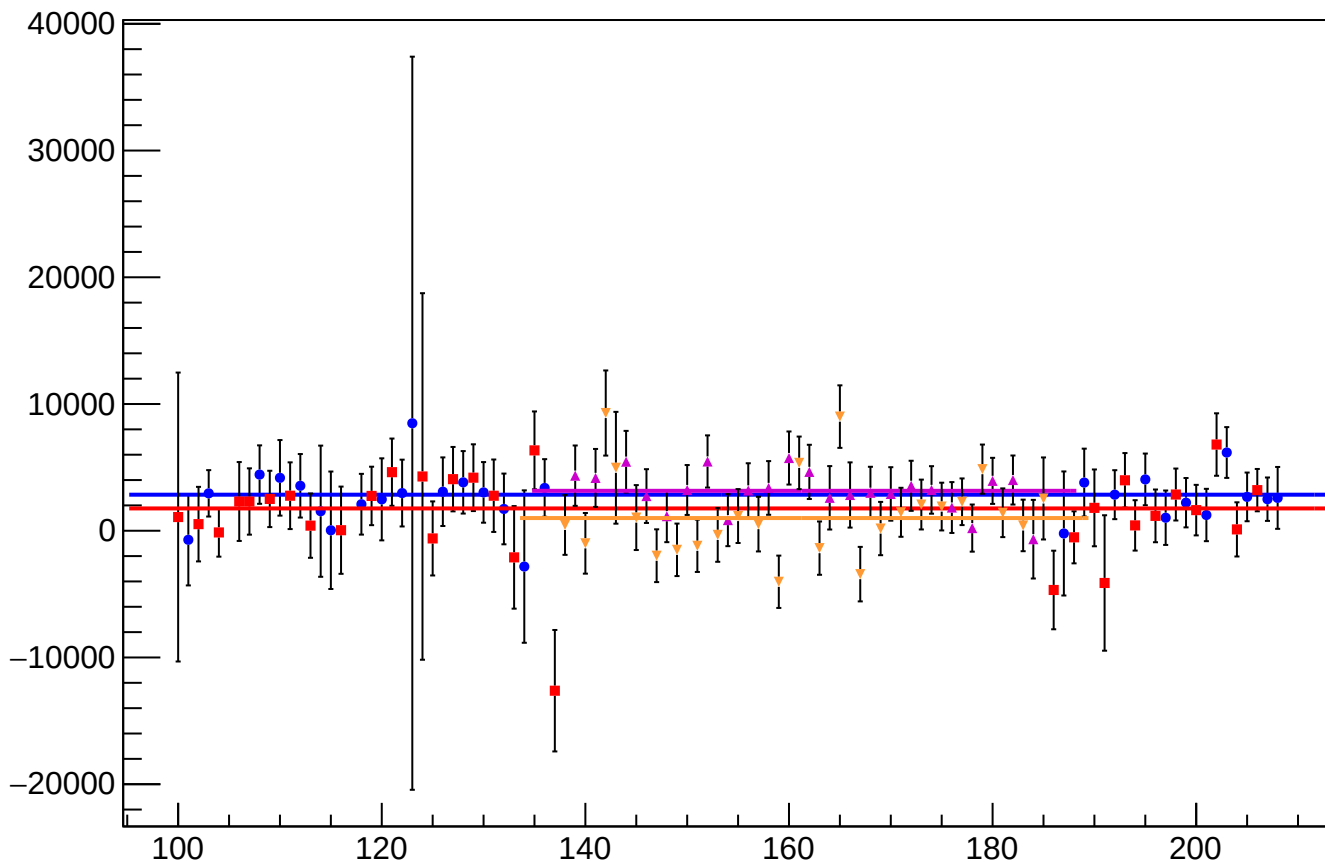
Right: 2098.468+/-0.279 χ^2/NDF : 1969053.6/58

In: 1966.288+/-0.249 χ^2/NDF : 1016085.9/50

Out: 1983.717+/-0.245 χ^2/NDF : 1318731.4/55

All: 1975.127+/-0.175 χ^2/NDF : 2337303.1/10

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2844.929 $\pm$ 466.622 χ^2 /NDF: 8.7/27

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1760.528 $\pm$ 459.596 χ^2 /NDF: 32.2/30

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

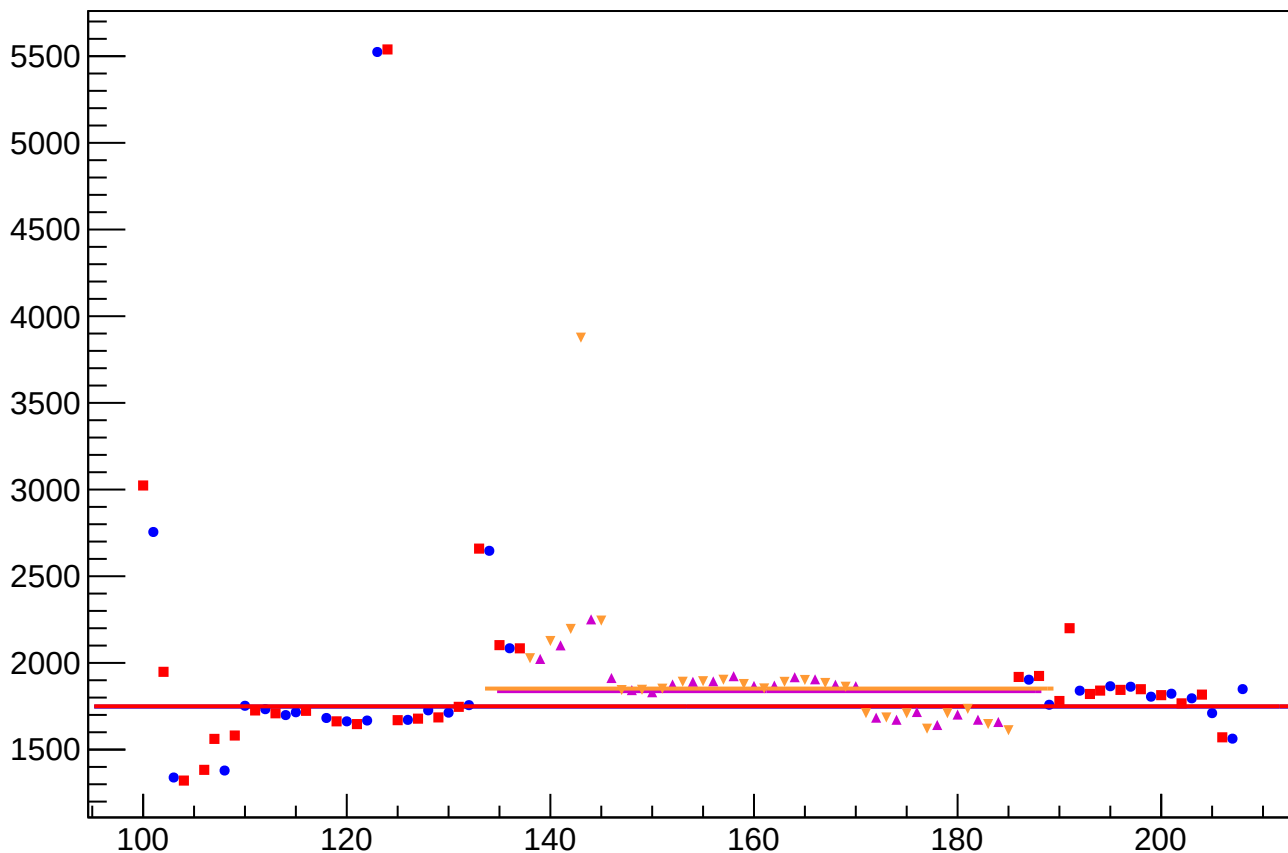
Right: 2294.504 $\pm$ 327.439 χ^2 /NDF: 43.6/58

In: 3006.250 $\pm$ 320.565 χ^2 /NDF:20.8/50

Out: 1360.251 $\pm$ 316.023 χ^2 /NDF:78.2/55

All: 2171.509 $\pm$ 225.051 χ^2 /NDF: 112.4/106

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1747.872 $\pm$ 0.330 χ^2 /NDF: 489295.9/27

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1749.785 $\pm$ 0.325 χ^2 /NDF: 546654.9/30

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

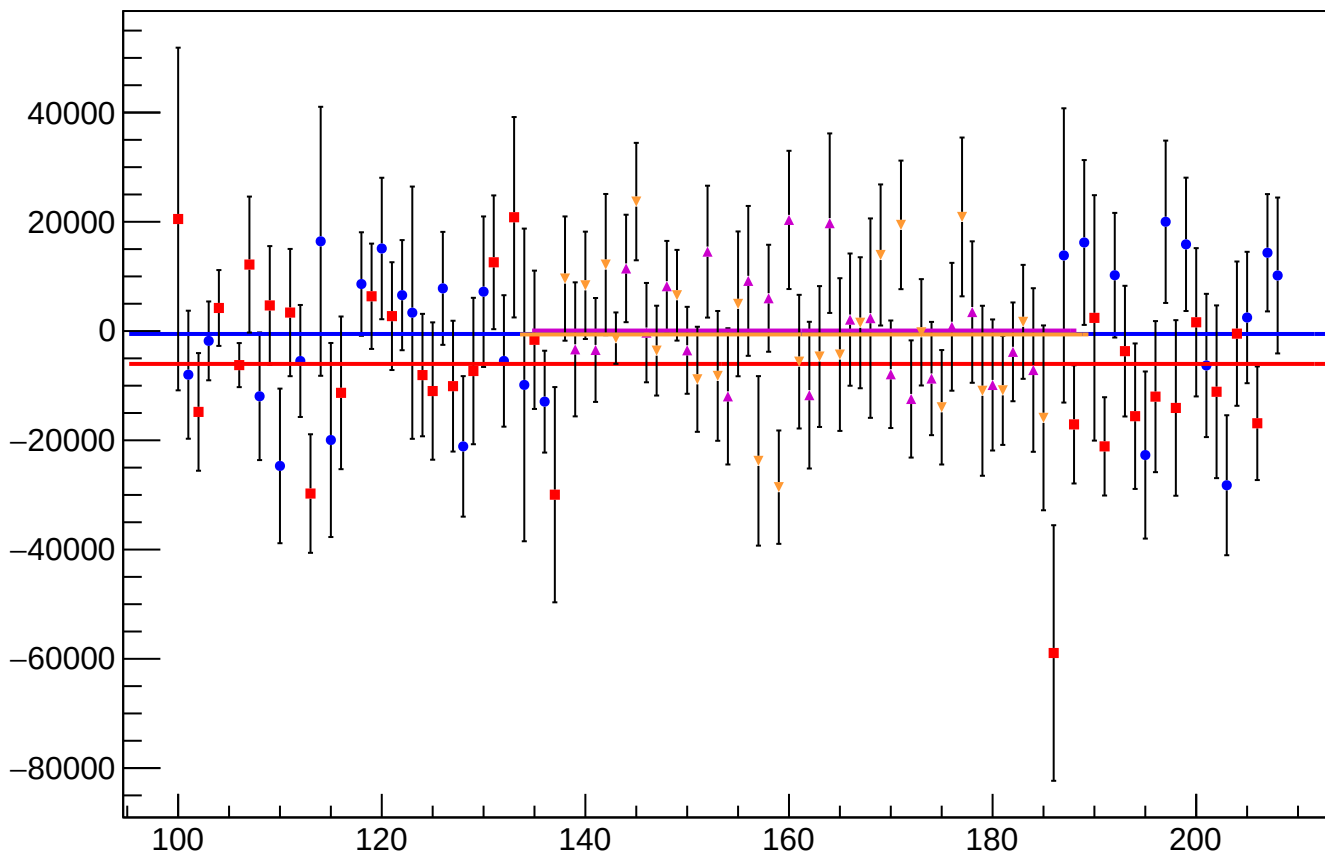
Right: 1748.843 $\pm$ 0.232 χ^2 /NDF: 1035967.8/58

In: 1795.015 $\pm$ 0.227 χ^2 /NDF: 728470.0/50

Out: 1803.650 $\pm$ 0.223 χ^2 /NDF: 1247720.1/55

All: 1799.394 $\pm$ 0.159 χ^2 /NDF: 1976926.0/10

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -533.759+/-2333.478 χ^2/NDF : 30.3/27

Left Out: -619.372+/-2069.686 χ^2/NDF : 30.1/24

Right Out: -6016.792+/-1942.747 χ^2/NDF : 32.8/30

Left In: 93.334+/-2293.826 χ^2/NDF : 14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

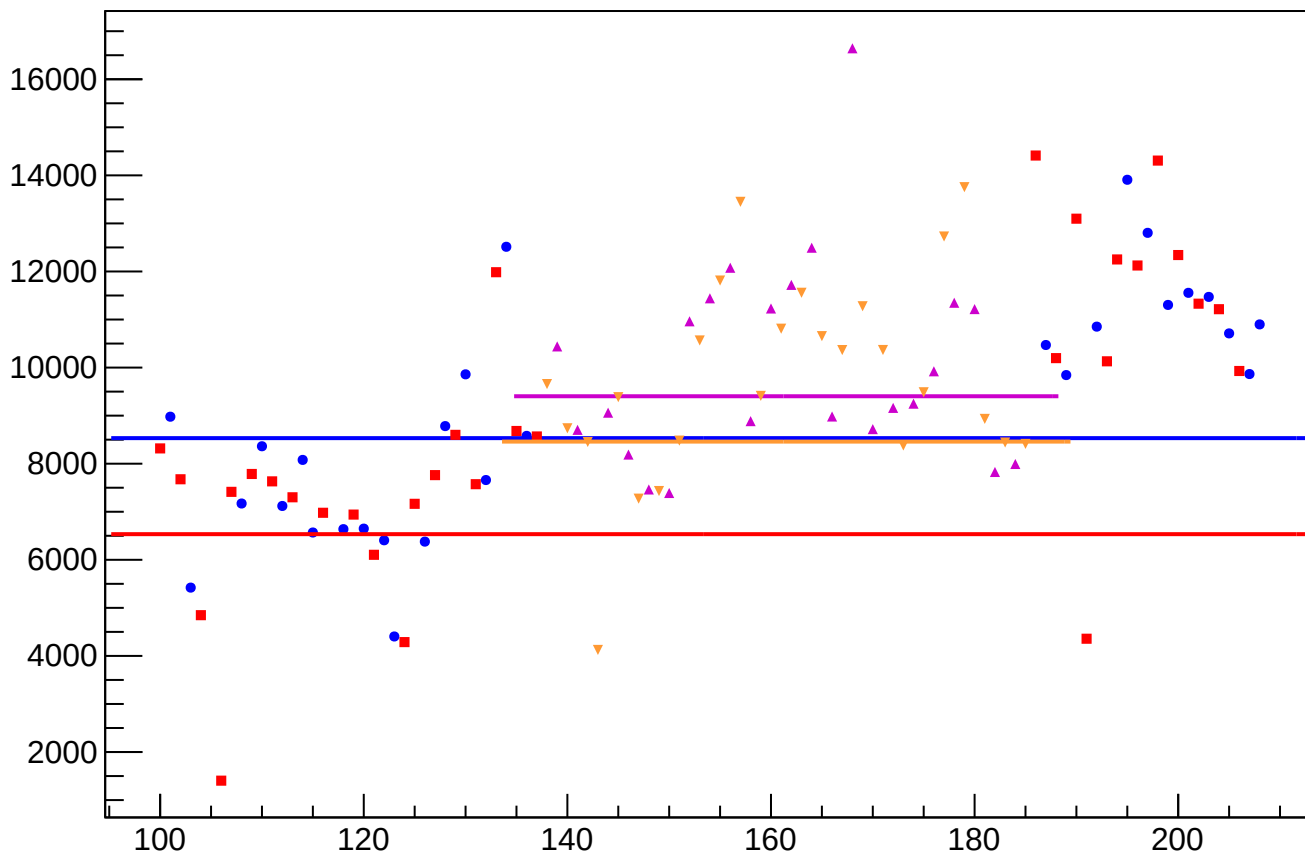
Right: -3772.127+/-1493.031 χ^2/NDF : 66.4/58

In: -214.839+/-1635.819 χ^2/NDF : 45.0/50

Out: -3488.667+/-1416.481 χ^2/NDF : 66.6/55

All: -2085.801+/-1070.817 χ^2/NDF : 113.9/100

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8531.998 $\pm$ 1.650

χ^2 /NDF: 1882432.2/27

Left Out: 8459.960 $\pm$ 1.463

χ^2 /NDF: 3087200.5/24

Right Out: 6533.635 $\pm$ 1.374

χ^2 /NDF: 6982637.3/30

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

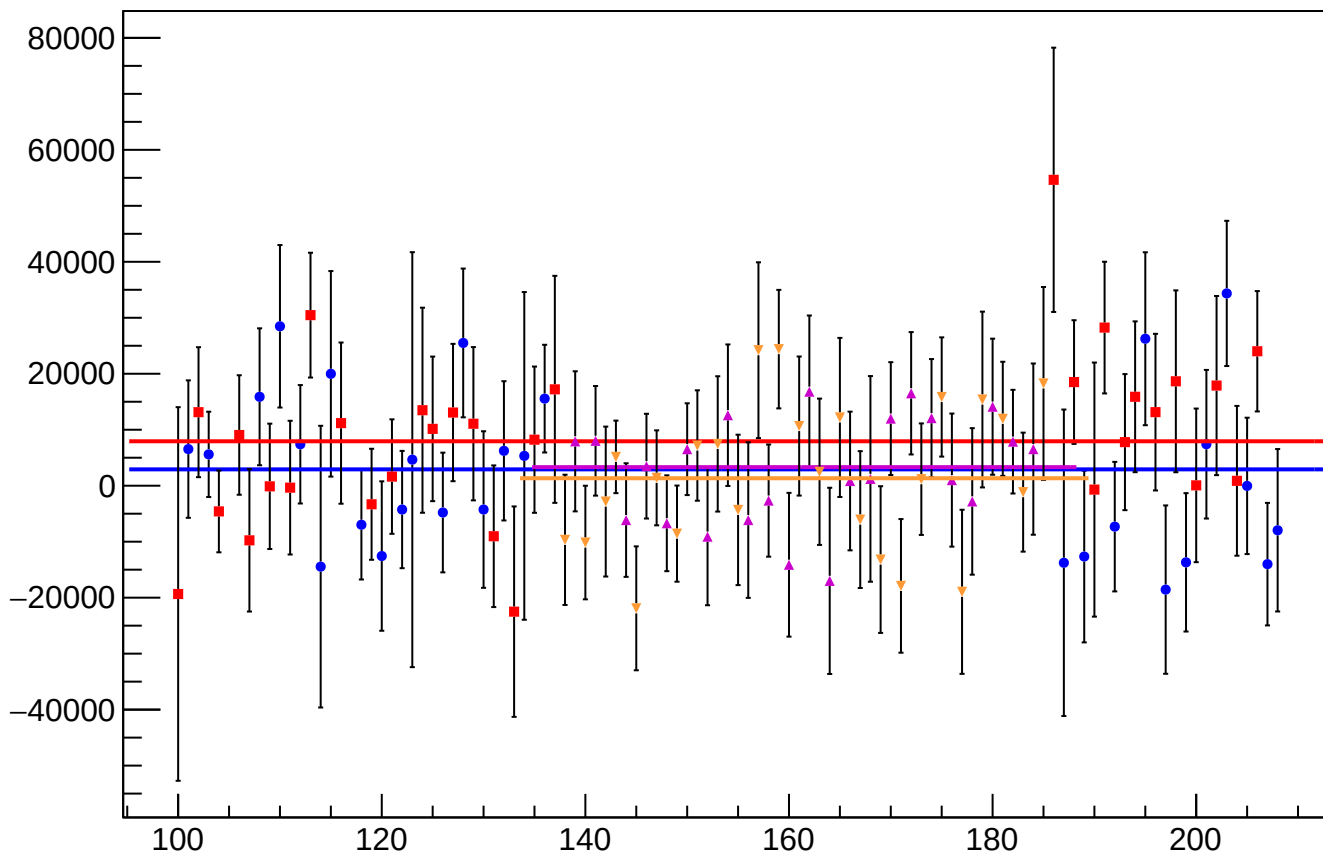
Right: 7351.733 $\pm$ 1.056 χ^2 /NDF: 9731386.1/58

In: 8975.207 $\pm$ 1.157 χ^2 /NDF: 3166949.0/50

Out: 7435.917 $\pm$ 1.002 χ^2 /NDF: 10990857.4/55

All: 8095.517 $\pm$ 0.757 χ^2 /NDF: 15169874.6/100

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2920.122+/-2409.038 χ^2/NDF : 31.6/27

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 7936.906+/-2283.881 χ^2/NDF : 29.6/30

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

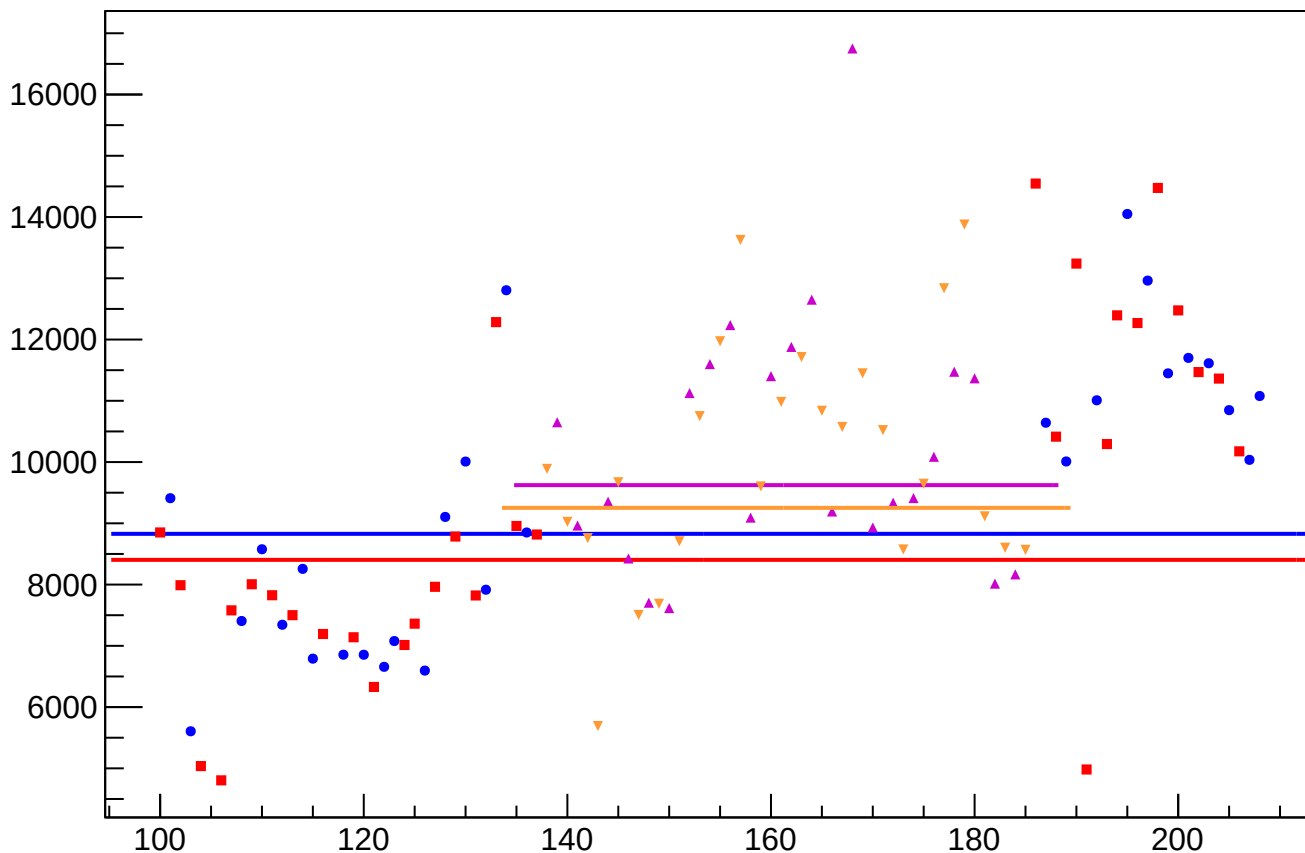
Right: 5562.214+/-1657.428 χ^2/NDF : 63.5/58

In: 3123.898+/-1680.181 χ^2/NDF : 45.3/50

Out: 4531.891+/-1589.566 χ^2/NDF : 62.0/55

All: 3866.884+/-1154.699 χ^2/NDF : 107.7/106

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8828.297 ± 1.703 $\chi^2/\text{NDF}: 1694885.6/27$

Left Out: 9252.712 ± 1.565 $\chi^2/\text{NDF}: 1597668.9/24$

Right Out: 8403.499 ± 1.615 $\chi^2/\text{NDF}: 2455421.7/30$

Left In: 9623.485 ± 1.658 $\chi^2/\text{NDF}: 1069924.0/22$

Left: 9427.467 ± 1.138 $\chi^2/\text{NDF}: 2694036.4/47$

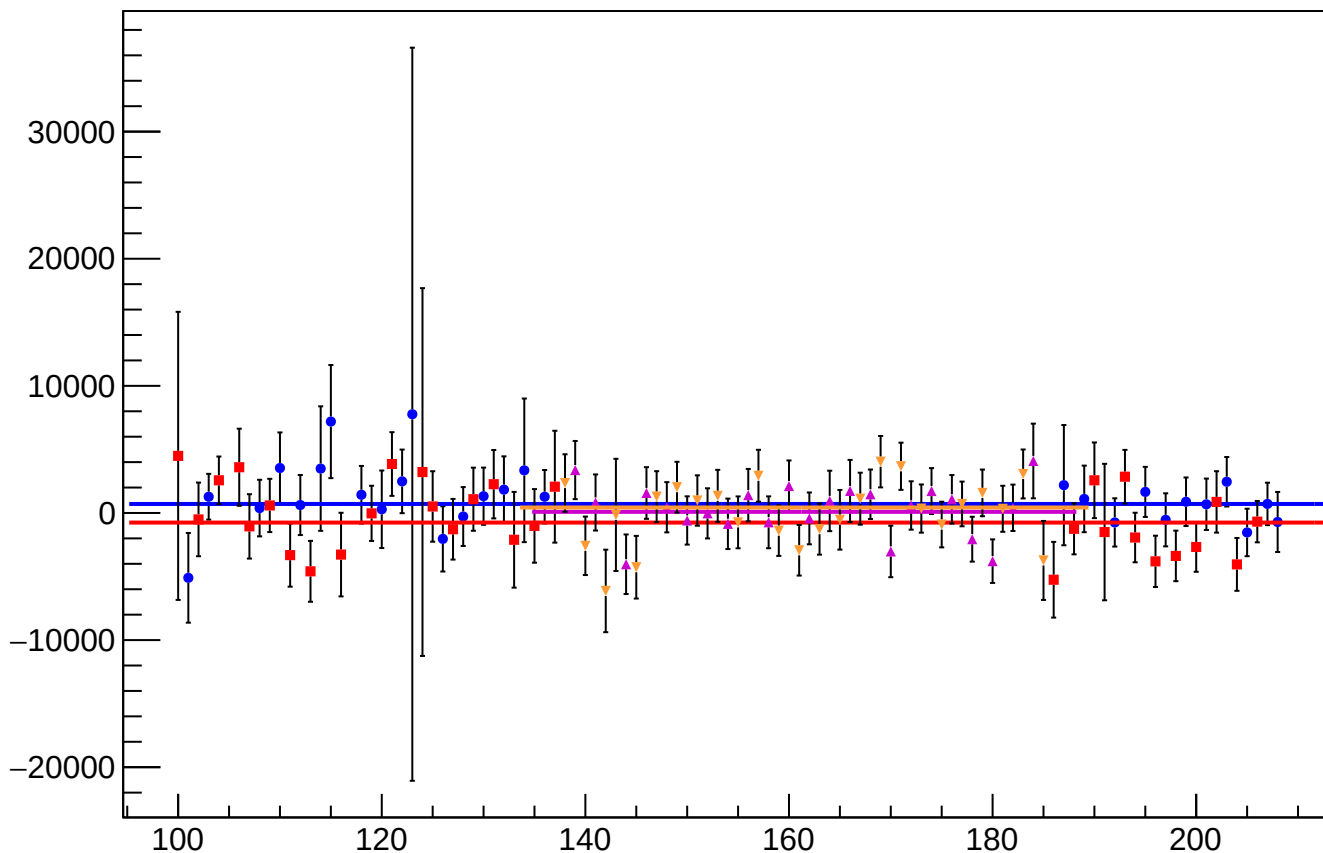
Right: 8604.558 ± 1.172 $\chi^2/\text{NDF}: 4183062.6/58$

In: 9236.671 ± 1.188 $\chi^2/\text{NDF}: 2876724.0/50$

Out: 8841.303 ± 1.124 $\chi^2/\text{NDF}: 4195674.6/55$

All: 9028.030 ± 0.816 $\chi^2/\text{NDF}: 7130841.0/100$

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 708.663 $\pm$ 449.259 χ^2 /NDF: 12.8/27

Left Out: 429.447 $\pm$ 416.378 χ^2 /NDF: 28.7/24

Right Out: -755.150 $\pm$ 442.961 χ^2 /NDF: 31.1/30

Left In: 88.373 $\pm$ 421.957 χ^2 /NDF: 21.0/22

Left: 261.180 $\pm$ 296.376 χ^2 /NDF: 50.0/47

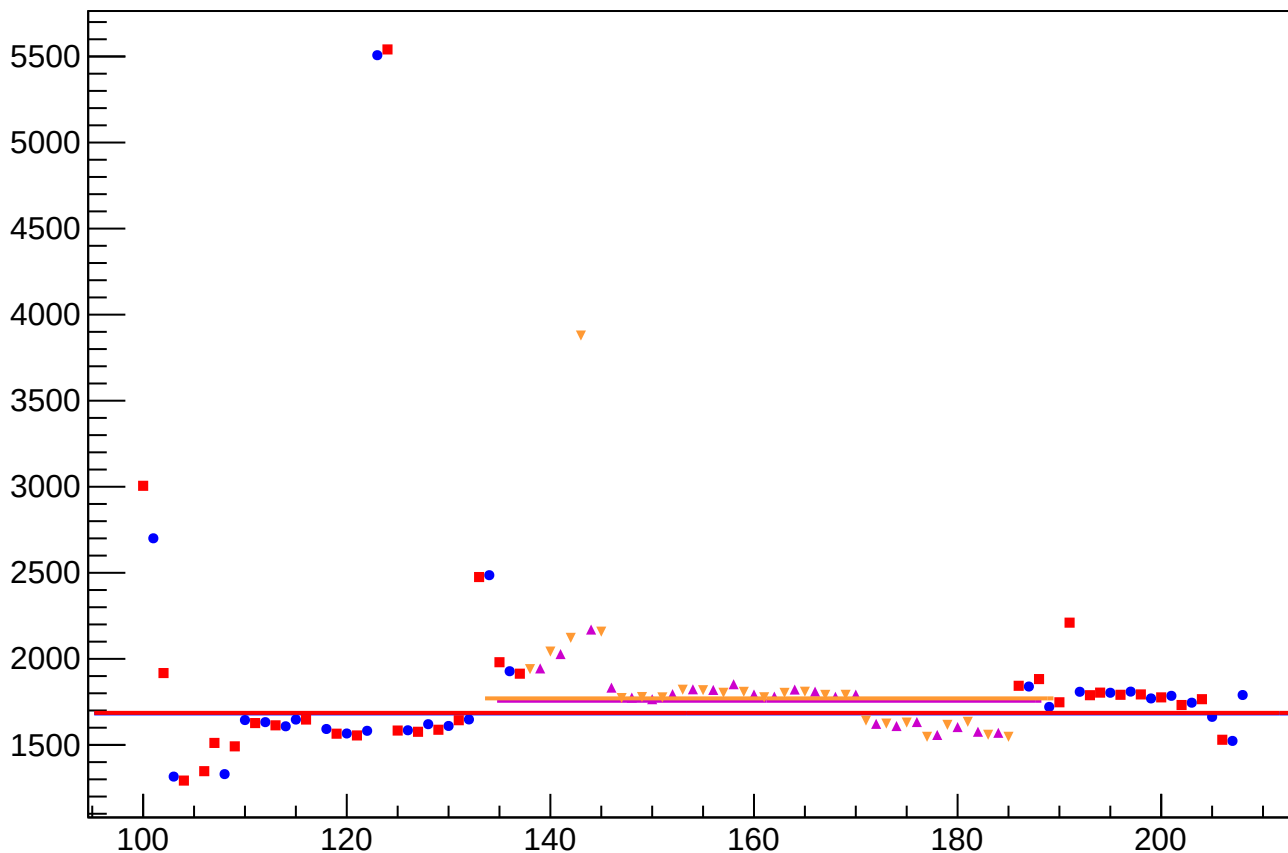
Right: -33.577 $\pm$ 315.424 χ^2 /NDF: 49.3/58

In: 379.099 $\pm$ 307.568 χ^2 /NDF: 34.7/50

Out: -126.242 $\pm$ 303.386 χ^2 /NDF: 63.6/55

All: 122.969 $\pm$ 215.990 χ^2 /NDF: 99.7/106

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1683.025+/-0.318 χ^2/NDF : 480736.2/27

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1686.289+/-0.313 χ^2/NDF : 555668.3/30

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

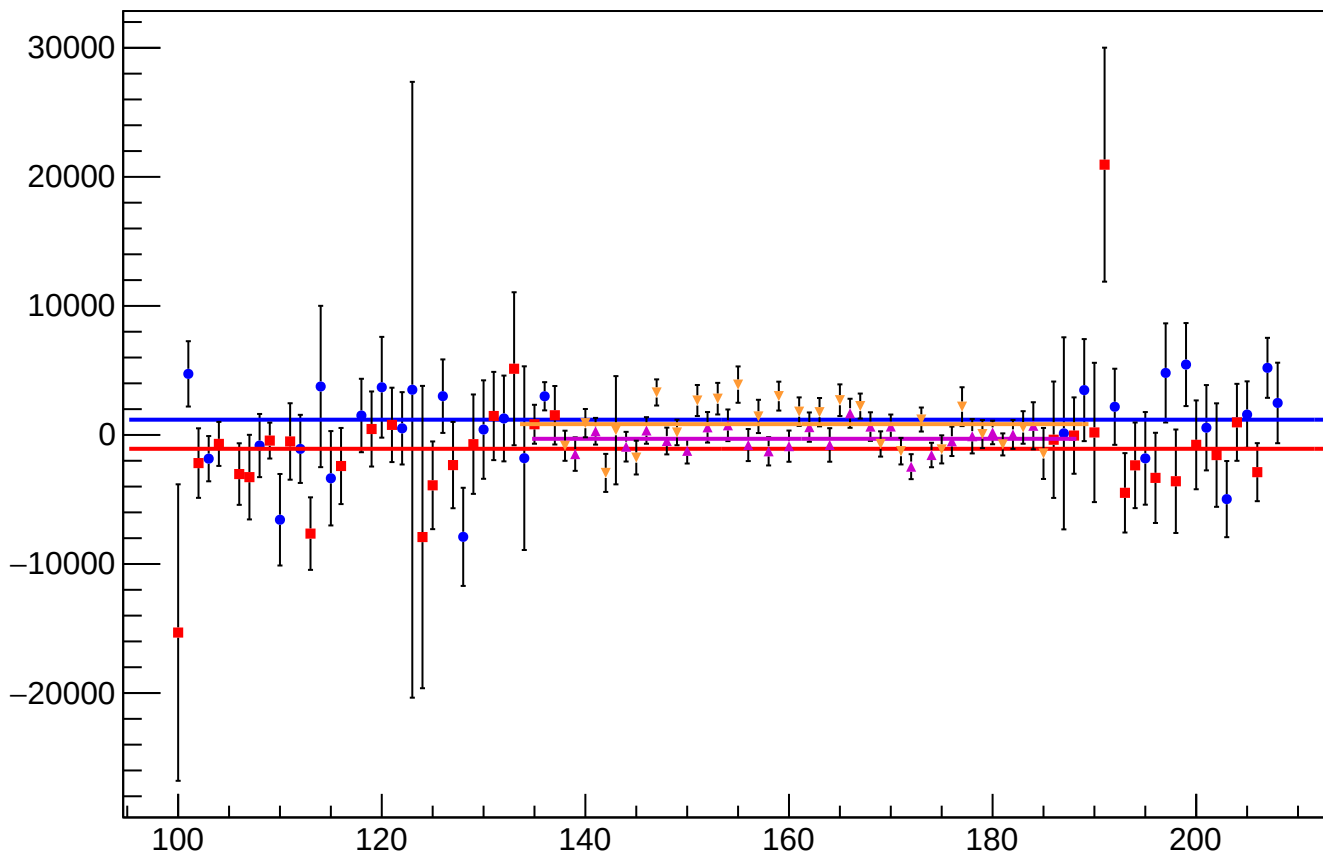
Right: 1684.680+/-0.223 χ^2/NDF : 1036458.1/58

In: 1722.128+/-0.217 χ^2/NDF : 732331.7/50

Out: 1730.935+/-0.215 χ^2/NDF : 1293474.7/55

All: 1726.592+/-0.153 χ^2/NDF : 2026637.6/100

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1183.023 $\pm$ 528.444 χ^2 /NDF: 33.8/27

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF:54.4/24

Right Out: -1072.707 $\pm$ 507.978 χ^2 /NDF: 24.7/30

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF:18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

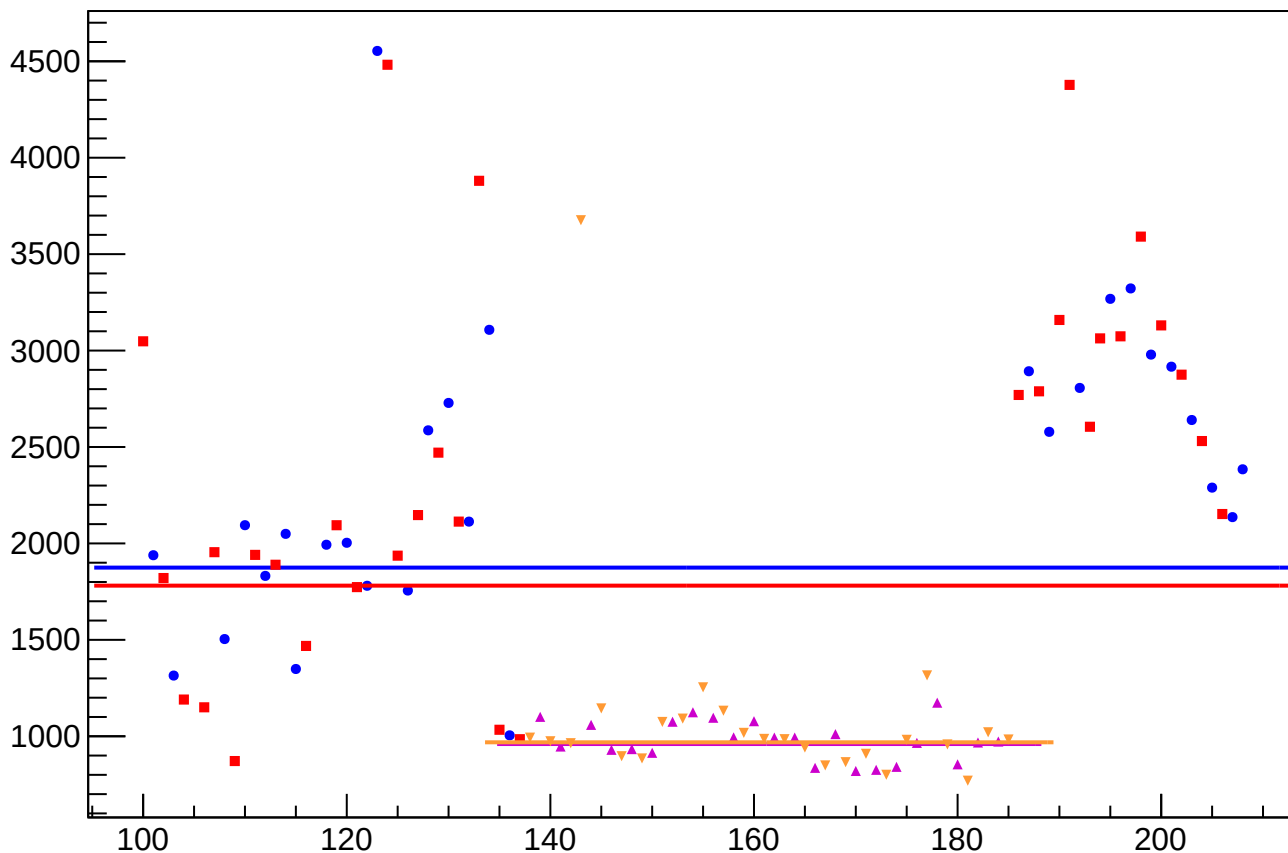
Right: 10.631 $\pm$ 366.216 χ^2 /NDF: 67.9/58

In: -60.383 $\pm$ 211.968 χ^2 /NDF:58.7/50

Out: 512.957 $\pm$ 209.875 χ^2 /NDF:90.8/55

All: 229.132 $\pm$ 149.139 χ^2 /NDF: 153.2/106

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1874.589 $\pm$ 0.374 χ^2 /NDF: 3429988.7/27

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF:1393696.6/24

Right Out: 1781.078 $\pm$ 0.359 χ^2 /NDF: 4908949.7/30

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

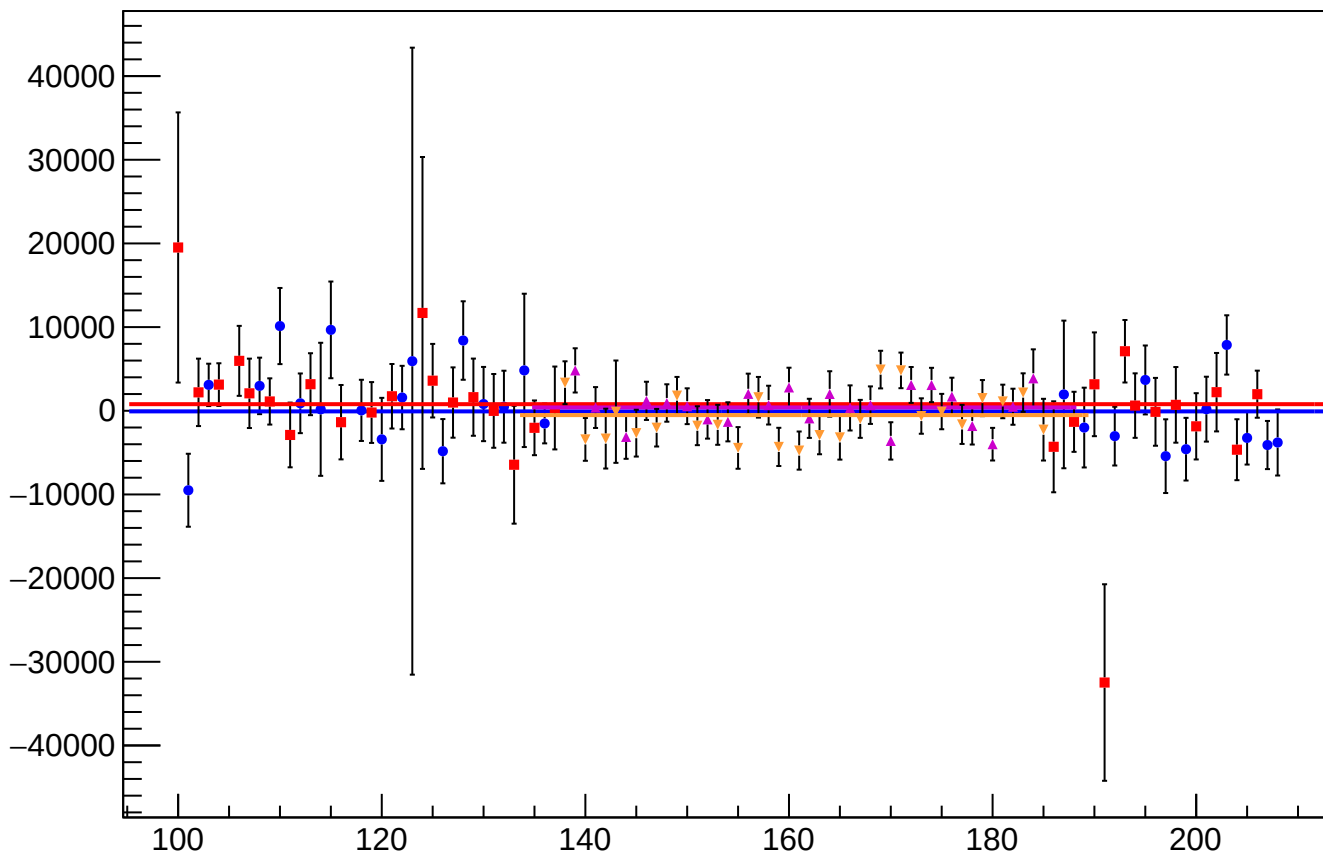
Right: 1825.988 $\pm$ 0.259 χ^2 /NDF: 8371487.3/58

In: 1106.989 $\pm$ 0.150 χ^2 /NDF:8830237.5/50

Out: 1107.383 $\pm$ 0.148 χ^2 /NDF:10544511.2/55

All: 1107.188 $\pm$ 0.105 χ^2 /NDF: 19374752.1/112

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -72.744 ± 743.106 $\chi^2/\text{NDF}: 34.7/27$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 789.496 ± 731.756 $\chi^2/\text{NDF}: 23.5/30$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

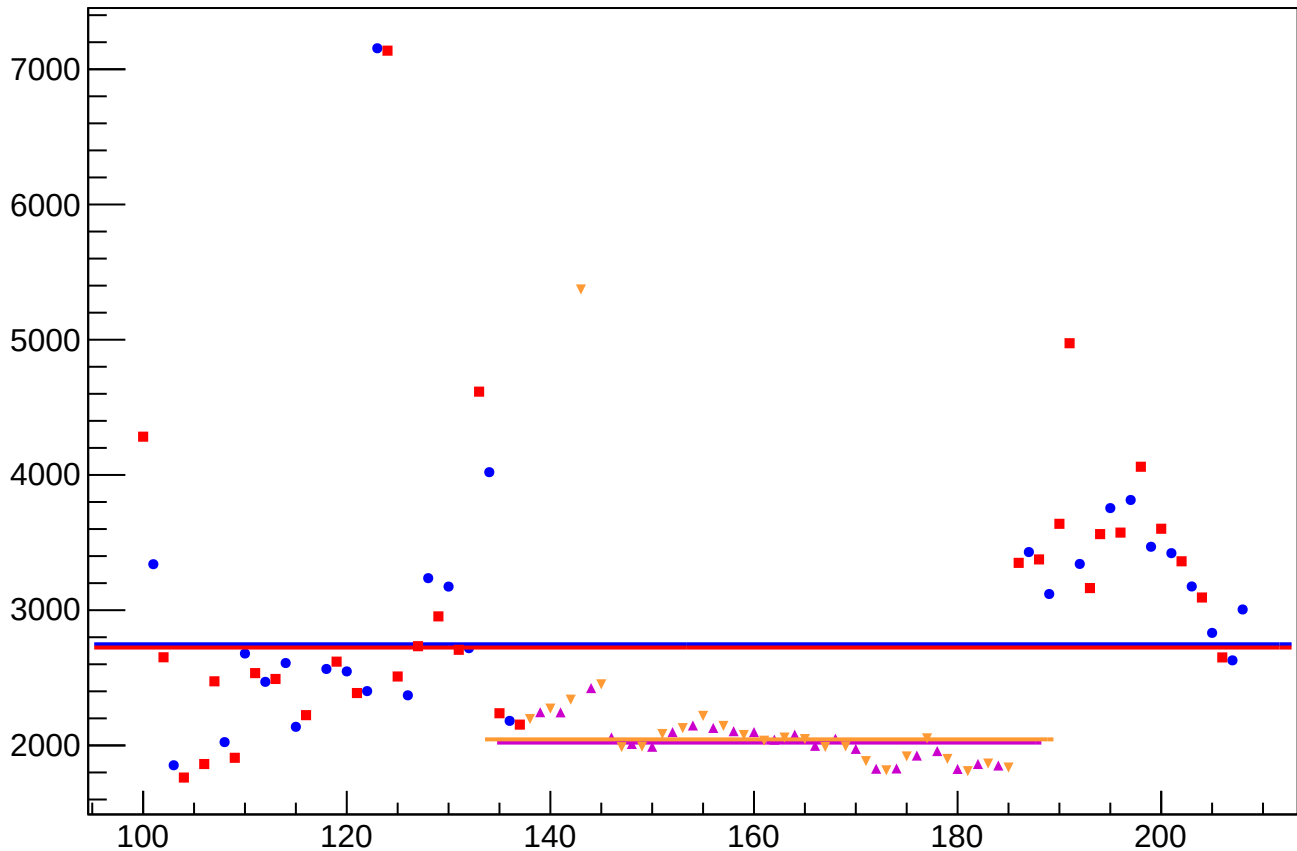
Right: 365.012 ± 521.396 $\chi^2/\text{NDF}: 58.9/58$

In: 256.936 ± 406.178 $\chi^2/\text{NDF}: 56.8/50$

Out: -122.760 ± 402.225 $\chi^2/\text{NDF}: 59.8/55$

All: 65.231 ± 285.803 $\chi^2/\text{NDF}: 117.1/106$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2747.846 $\pm$ 0.525 χ^2 /NDF: 1173476.3/27

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2723.797 $\pm$ 0.517 χ^2 /NDF: 1713834.4/30

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

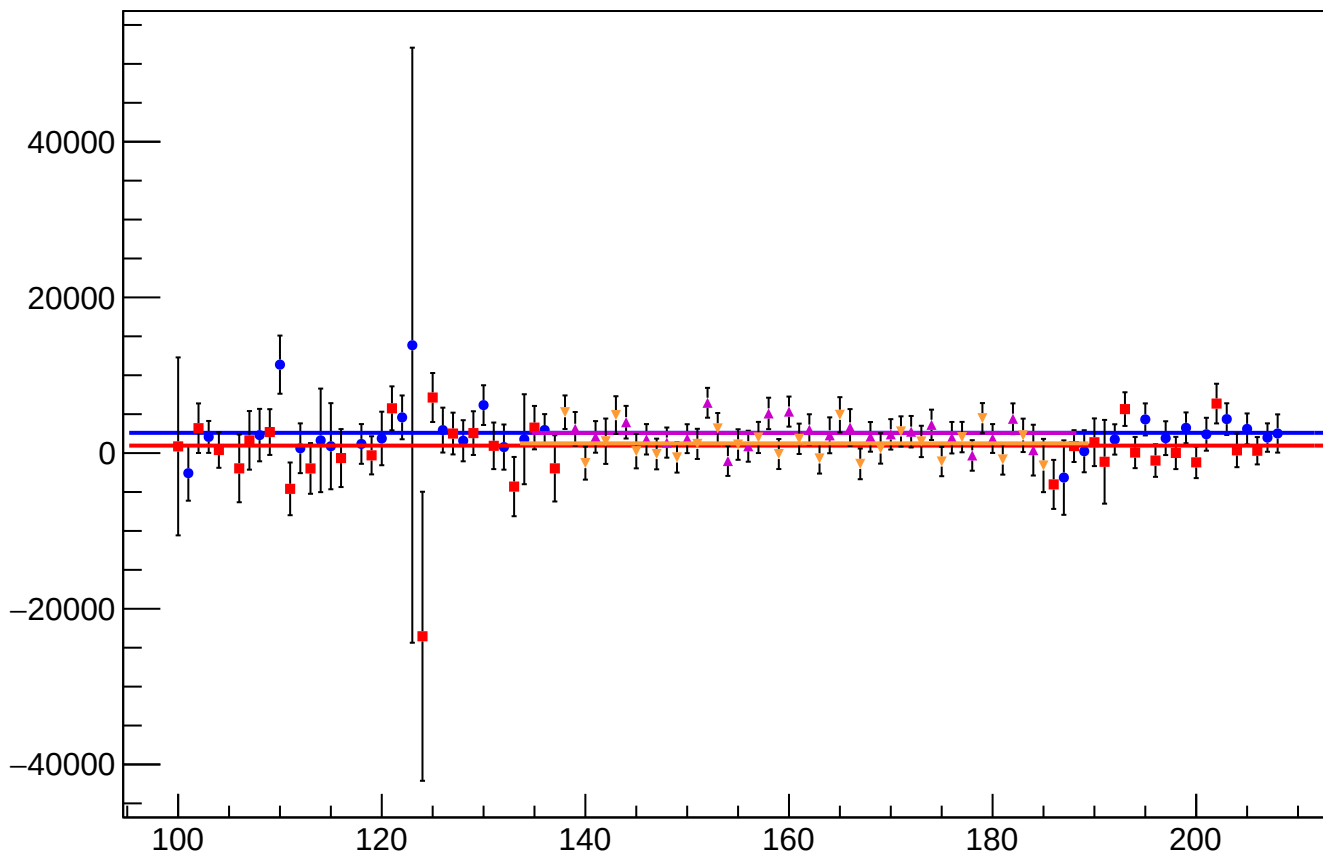
Right: 2735.636 $\pm$ 0.369 χ^2 /NDF: 2888374.3/58

In: 2238.018 $\pm$ 0.287 χ^2 /NDF: 2689477.2/50

Out: 2249.898 $\pm$ 0.284 χ^2 /NDF: 3704539.6/55

All: 2244.016 $\pm$ 0.202 χ^2 /NDF: 6394880.6/10

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2603.128+/-491.889 χ^2/NDF : 16.0/27

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 961.612+/-490.314 χ^2/NDF : 32.0/30

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

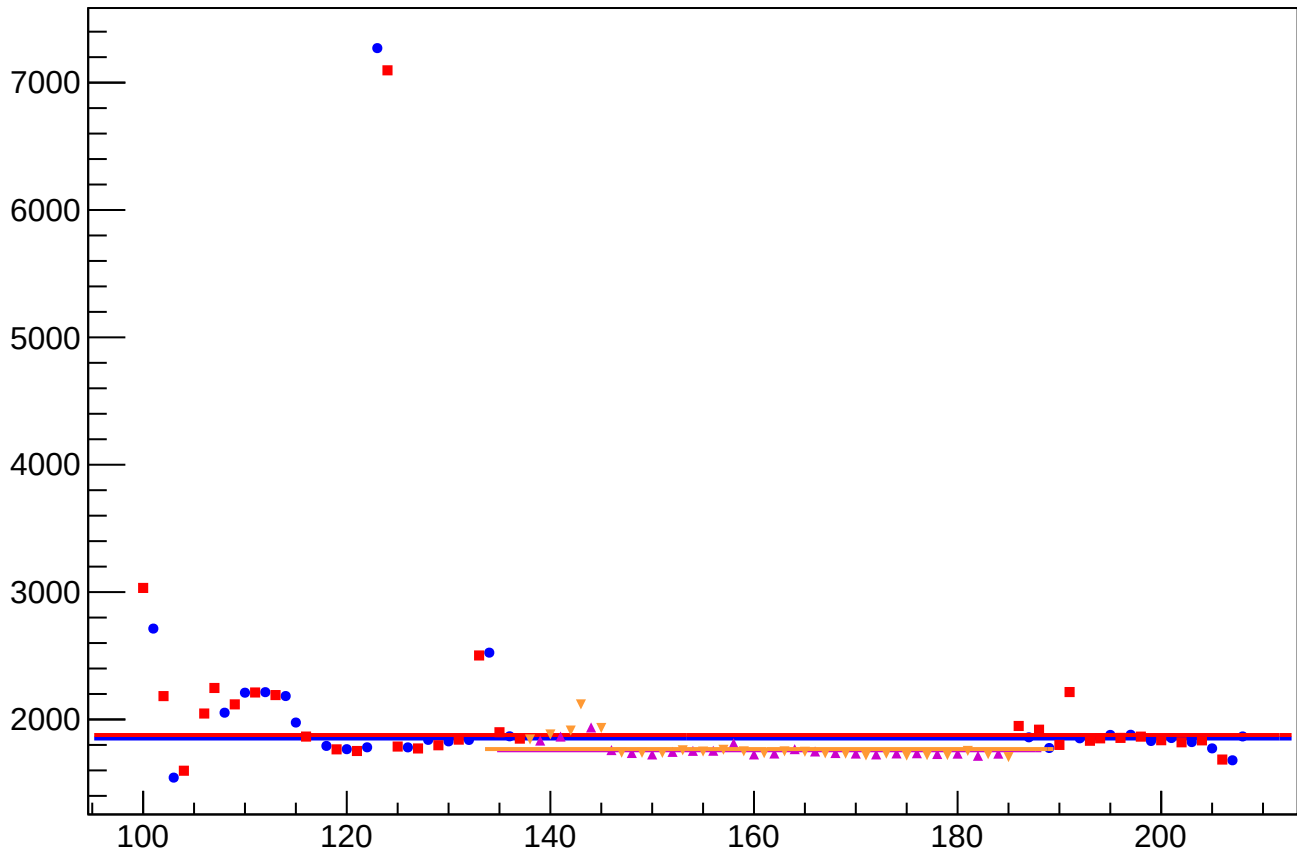
Right: 1779.738+/-347.260 χ^2/NDF : 53.6/58

In: 2593.793+/-320.069 χ^2/NDF : 33.4/50

Out: 1130.435+/-315.645 χ^2/NDF : 55.2/55

All: 1851.930+/-224.743 χ^2/NDF : 99.2/106

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1850.417+/-0.348 χ^2/NDF : 317587.8/27

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1877.825+/-0.346 χ^2/NDF : 409071.4/30

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

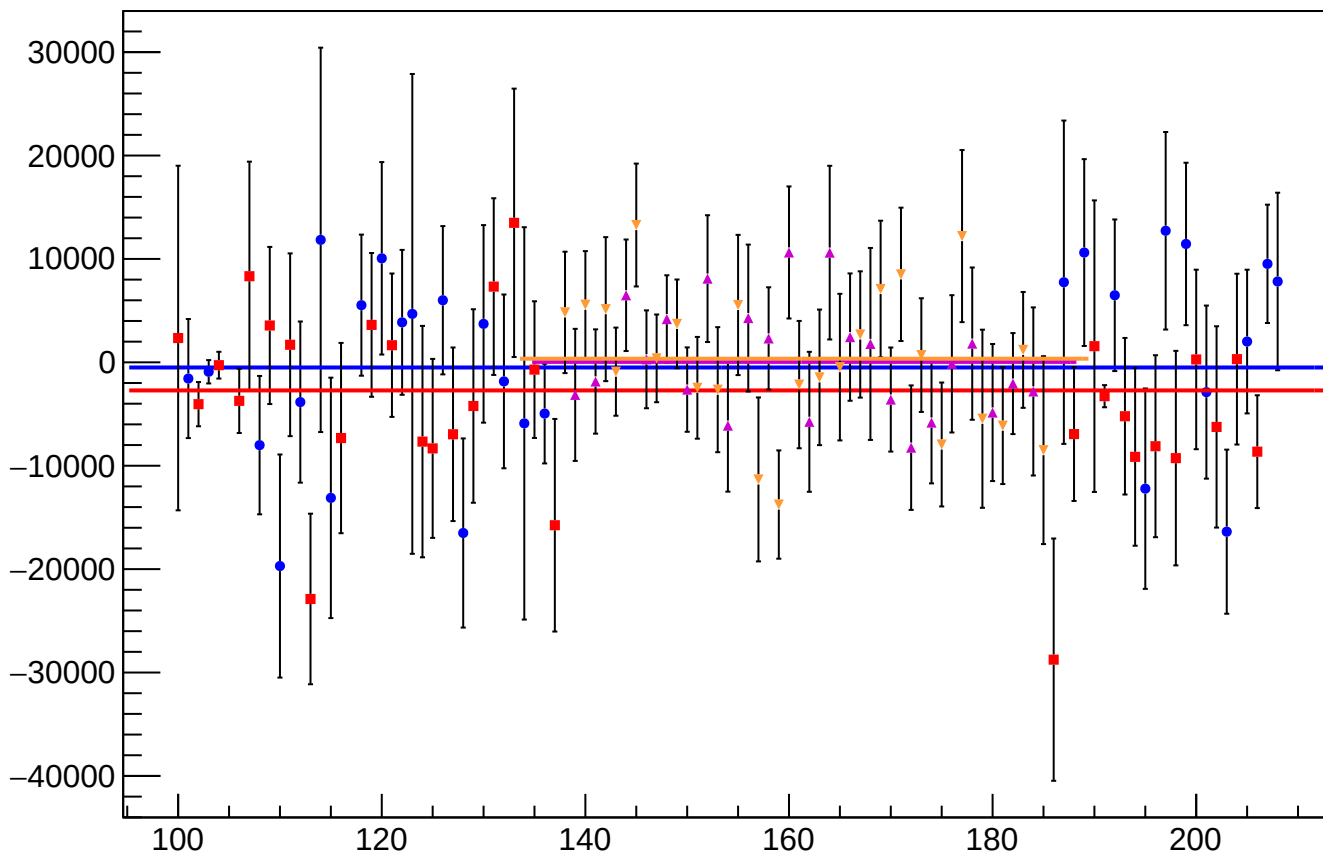
Right: 1864.174+/-0.245 χ^2/NDF : 729775.9/58

In: 1797.173+/-0.226 χ^2/NDF : 388033.7/50

Out: 1813.268+/-0.223 χ^2/NDF : 546069.6/55

All: 1805.335+/-0.159 χ^2/NDF : 936667.9/106

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -497.641 ± 913.683 χ^2/NDF : 30.6/27

Left Out: 351.227 ± 1170.051 χ^2/NDF : 27.8/24

Right Out: -2717.174 ± 680.160 χ^2/NDF : 27.8/30

Left In: 40.618 ± 1207.491 χ^2/NDF : 16.0/22

Left: 200.813 ± 840.276 χ^2/NDF : 43.9/47

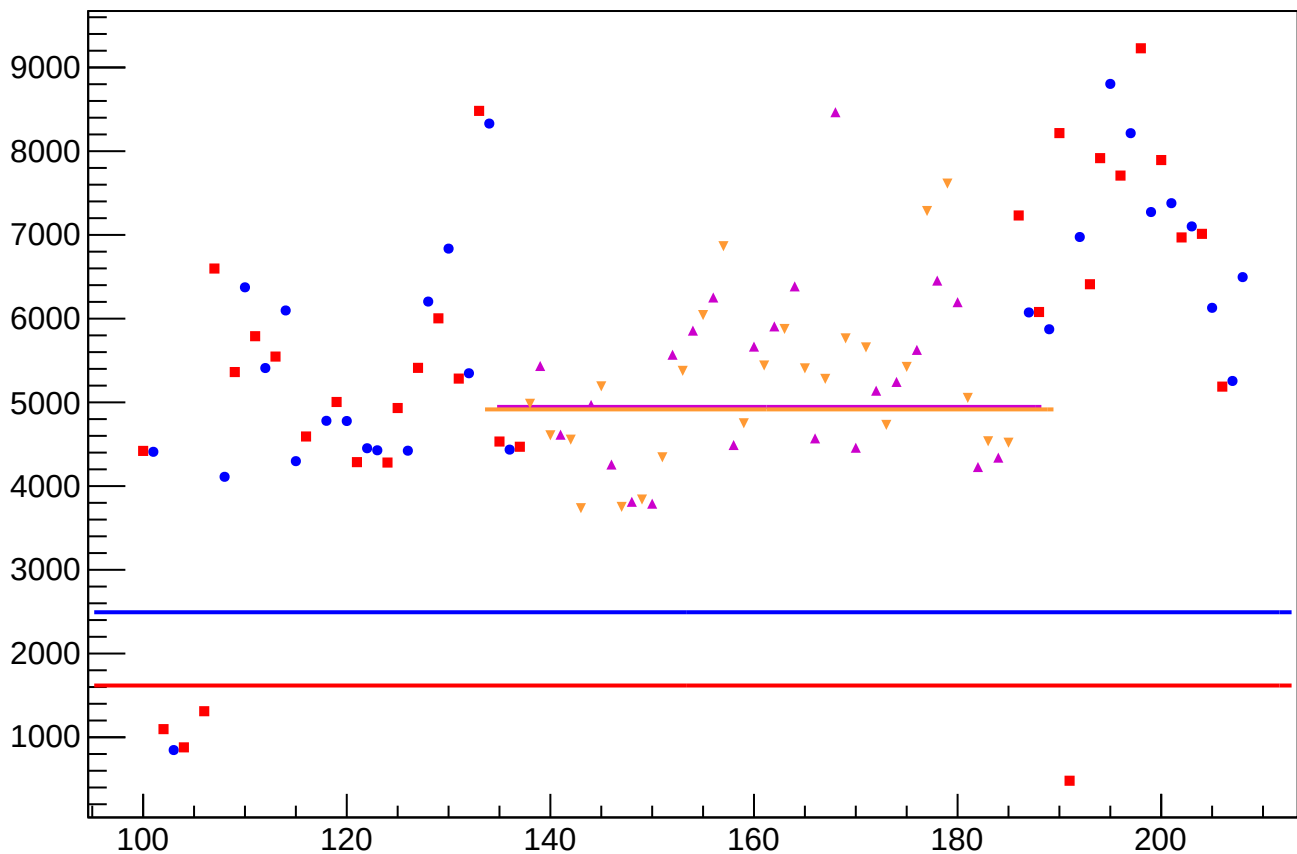
Right: -1925.770 ± 545.587 χ^2/NDF : 62.1/58

In: -301.663 ± 728.604 χ^2/NDF : 46.7/50

Out: -1942.187 ± 588.026 χ^2/NDF : 60.8/55

All: -1295.112 ± 457.591 χ^2/NDF : 110.5/106

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2493.153 $\pm$ 0.646

χ^2 /NDF: 13642656.3/27

Left: 4930.370 $\pm$ 0.594

χ^2 /NDF: 2375402.9/47

Left Out: 4915.865 $\pm$ 0.827

χ^2 /NDF: 1186479.7/24

Right: 1930.090 $\pm$ 0.386

χ^2 /NDF: 32537269.2/58

Right Out: 1618.065 $\pm$ 0.481

χ^2 /NDF: 17714161.7/30

In: 3386.157 $\pm$ 0.515

χ^2 /NDF: 20078173.6/50

Out: 2450.992 $\pm$ 0.416

χ^2 /NDF: 30775787.3/55

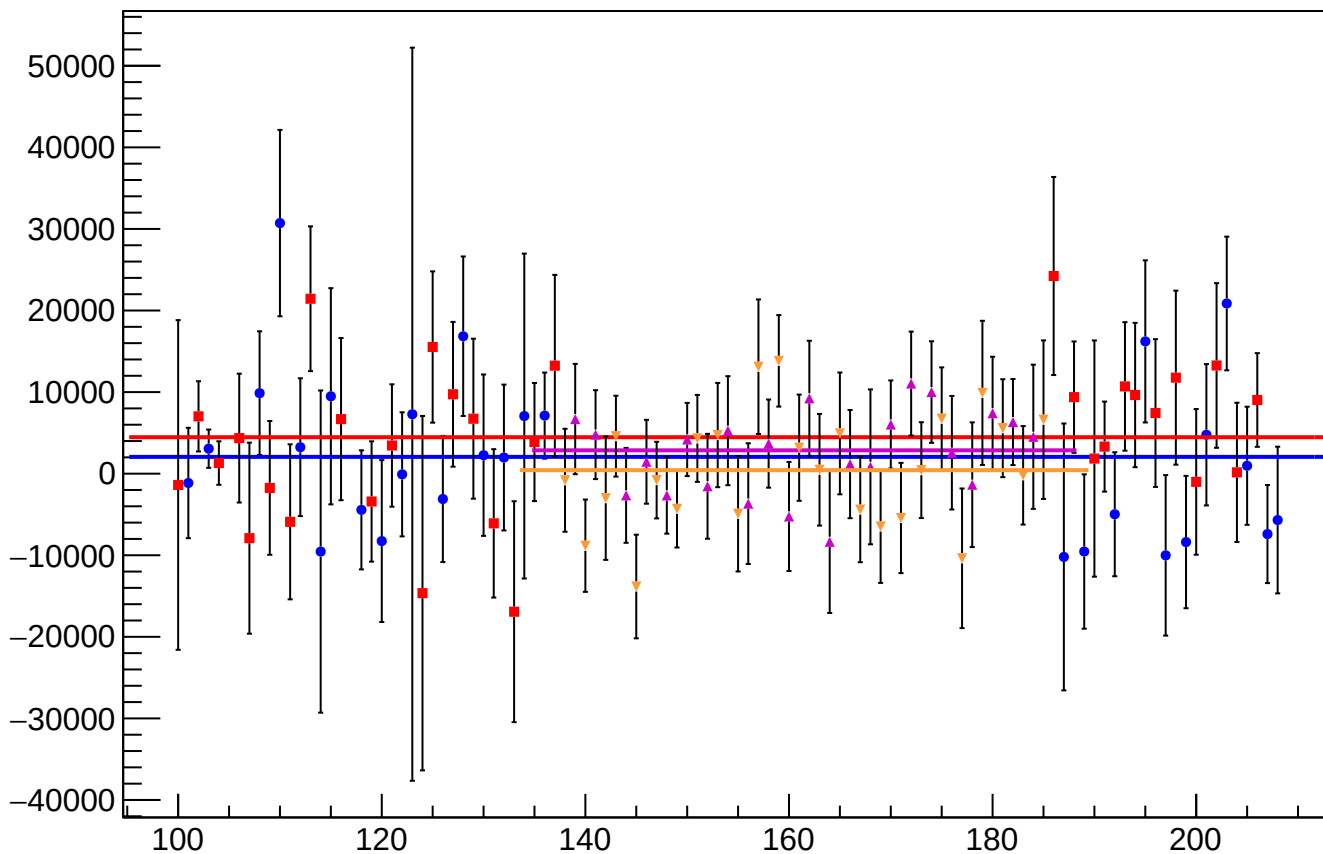
Left In: 4945.817 $\pm$ 0.854

χ^2 /NDF: 1188288.6/22

All: 2819.851 $\pm$ 0.324

χ^2 /NDF: 52849158.3/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2060.051 $\pm$ 1359.121 χ^2 /NDF: 30.8/27

Left Out: 430.860 $\pm$ 1258.273 χ^2 /NDF: 27.1/24

Right Out: 4470.674 $\pm$ 1325.918 χ^2 /NDF: 23.5/30

Left In: 2860.252 $\pm$ 1292.328 χ^2 /NDF: 12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2 /NDF: 41.8/47

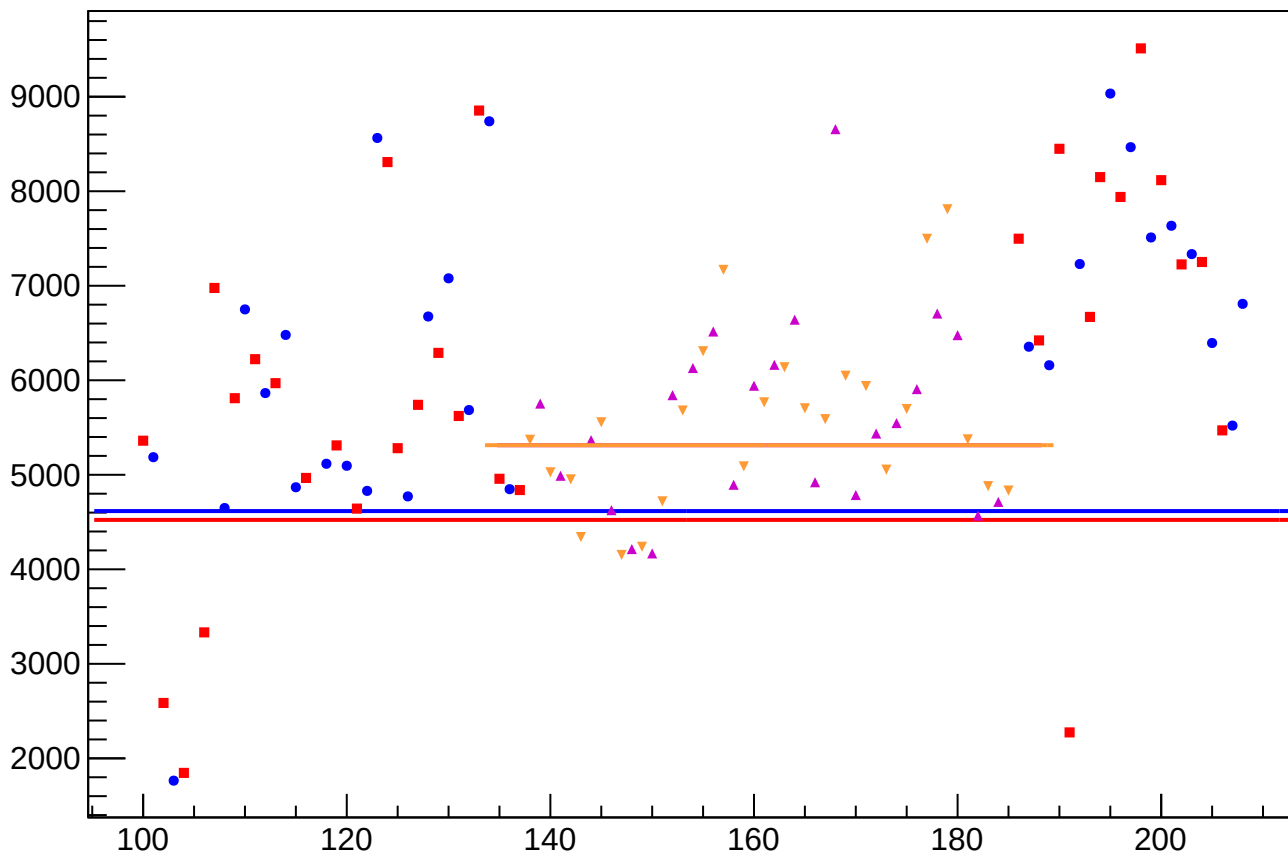
Right: 3295.168 $\pm$ 949.087 χ^2 /NDF: 55.9/58

In: 2480.297 $\pm$ 936.537 χ^2 /NDF: 43.9/50

Out: 2345.092 $\pm$ 912.711 χ^2 /NDF: 55.5/55

All: 2410.953 $\pm$ 653.645 χ^2 /NDF: 99.4/106

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4616.173+/-0.961 χ^2/NDF : 5483945.3/27

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4522.766+/-0.933 χ^2/NDF : 5869727.2/30

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

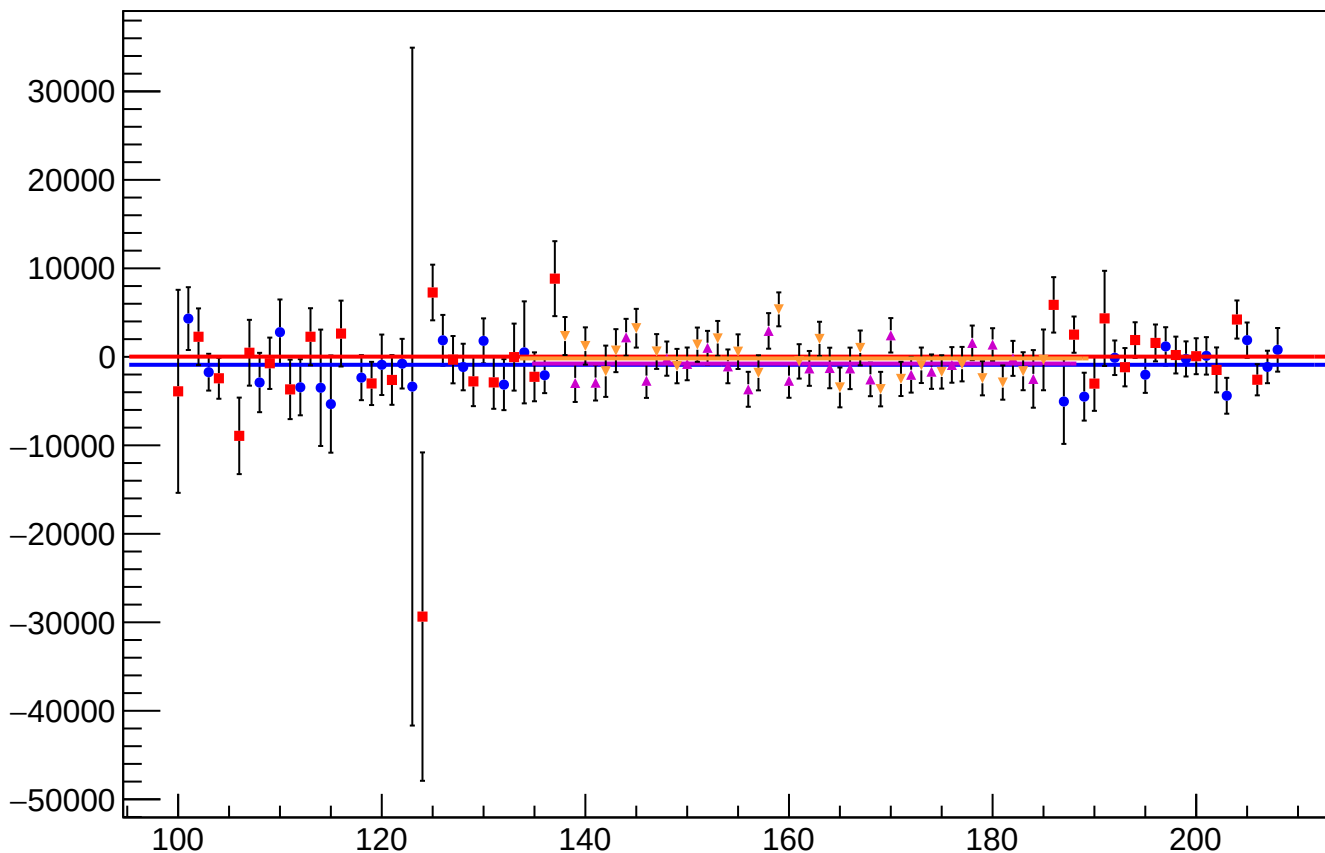
Right: 4568.102+/-0.670 χ^2/NDF : 11358534.0/58

In: 4982.056+/-0.662 χ^2/NDF : 6717336.6/50

Out: 4936.764+/-0.644 χ^2/NDF : 7139683.1/55

All: 4958.778+/-0.462 χ^2/NDF : 13859423.8/100

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -898.533 ± 491.591 $\chi^2/\text{NDF}: 18.2/27$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 24.330 ± 490.001 $\chi^2/\text{NDF}: 40.2/30$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

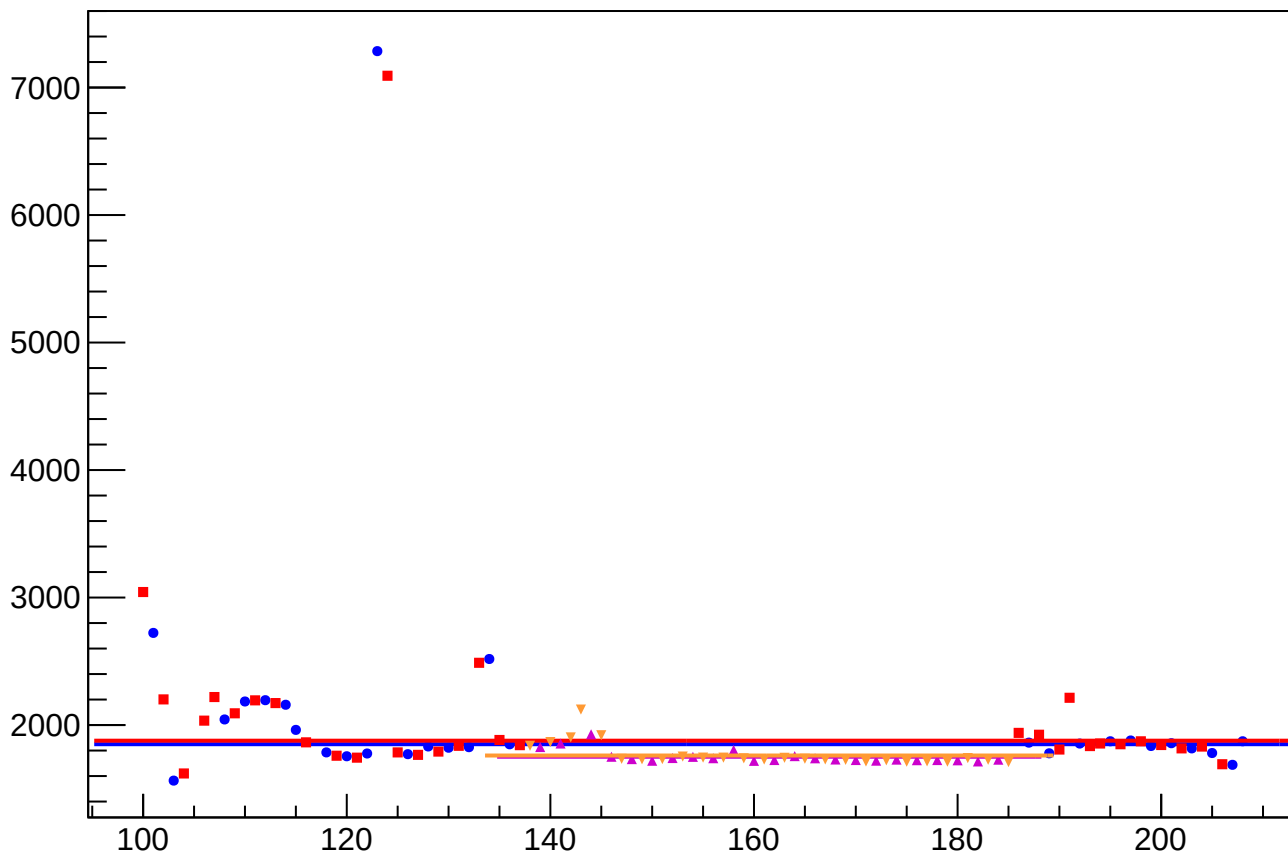
Right: -435.607 ± 347.044 $\chi^2/\text{NDF}: 60.1/58$

In: -818.296 ± 319.283 $\chi^2/\text{NDF}: 38.5/50$

Out: -95.499 ± 314.884 $\chi^2/\text{NDF}: 69.5/55$

All: -451.883 ± 224.196 $\chi^2/\text{NDF}: 110.6/106$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1849.743+/-0.348 χ^2/NDF : 304981.6/27

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1877.315+/-0.346 χ^2/NDF : 394358.3/30

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

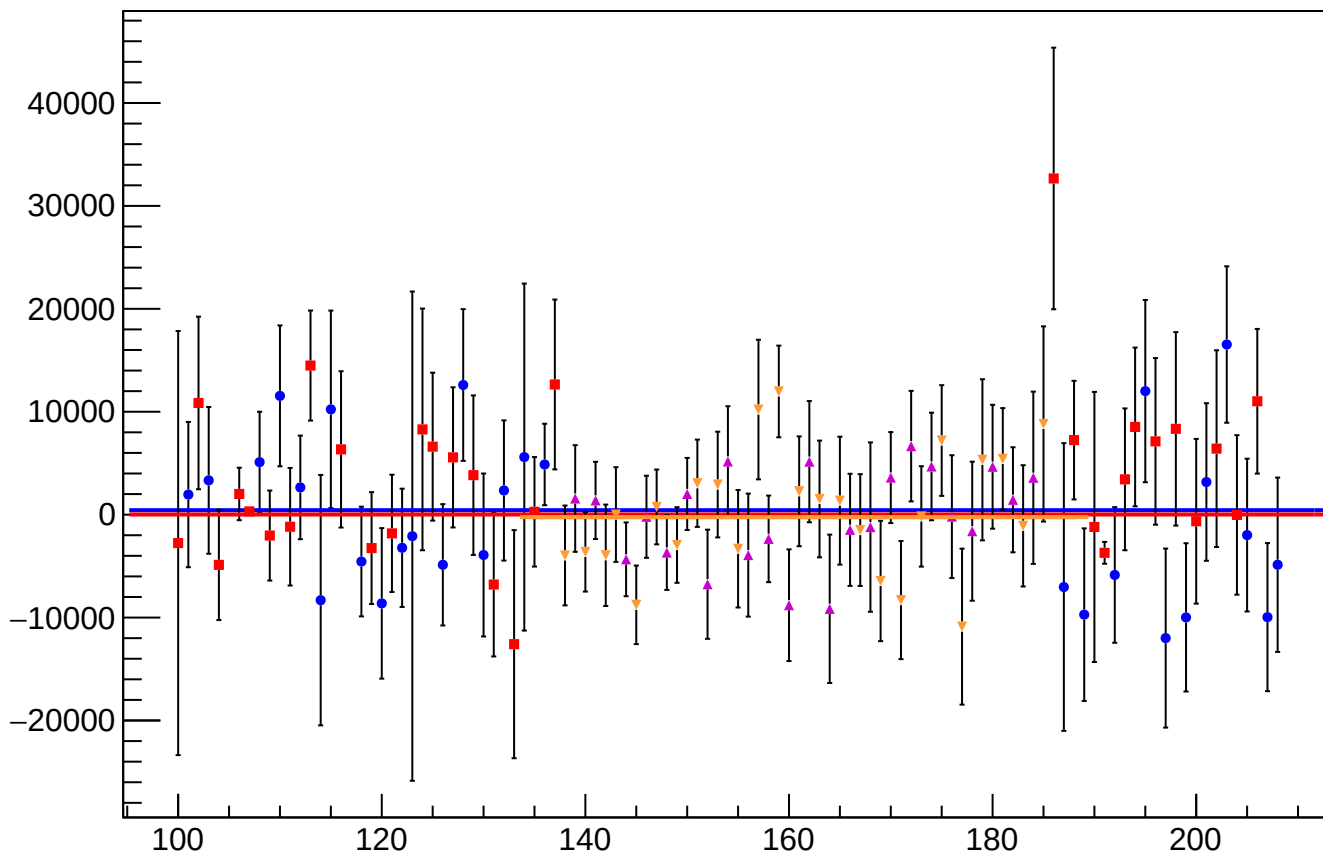
Right: 1863.584+/-0.245 χ^2/NDF : 702498.1/58

In: 1792.895+/-0.226 χ^2/NDF : 379820.4/50

Out: 1809.126+/-0.223 χ^2/NDF : 537934.7/55

All: 1801.125+/-0.159 χ^2/NDF : 920375.8/106

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 434.573 ± 1323.024 χ^2/NDF : 29.3/27

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: 15.847 ± 411.099 χ^2/NDF : 45.6/30

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

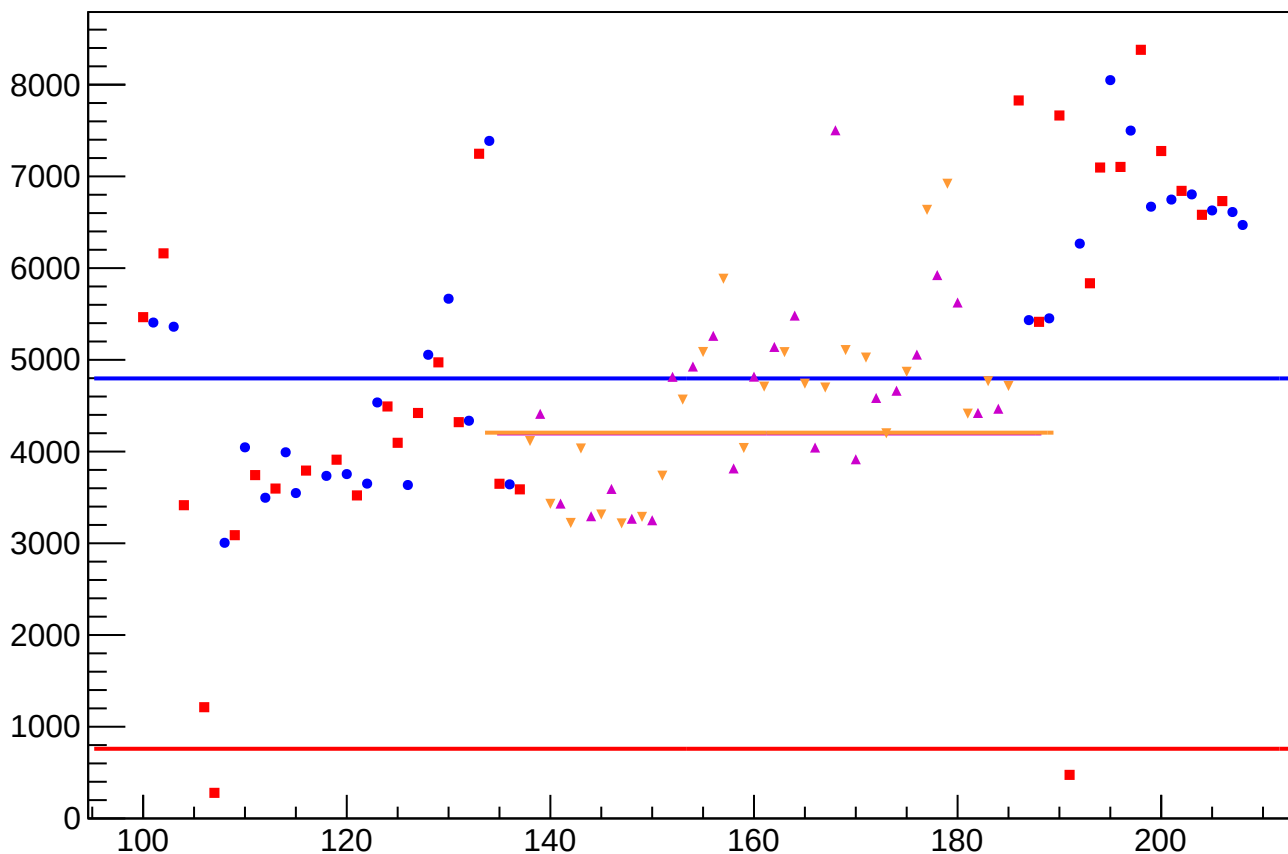
Right: 52.715 ± 392.583 χ^2/NDF : 74.9/58

In: 14.705 ± 812.191 χ^2/NDF : 44.8/50

Out: -20.217 ± 380.504 χ^2/NDF : 74.5/55

All: -13.931 ± 344.565 χ^2/NDF : 119.3/106

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4797.426+/-0.936

χ^2/NDF : 2336672.0/27

Left Out: 4206.076+/-0.711

χ^2/NDF :1442269.3/24

Right Out: 759.705+/-0.291

χ^2/NDF : 22754966.9/30

Left In: 4197.267+/-0.728

χ^2/NDF :1471012.9/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Right: 1115.226+/-0.278

χ^2/NDF : 42079486.0/58

In: 4423.444+/-0.574

χ^2/NDF :4064139.8/50

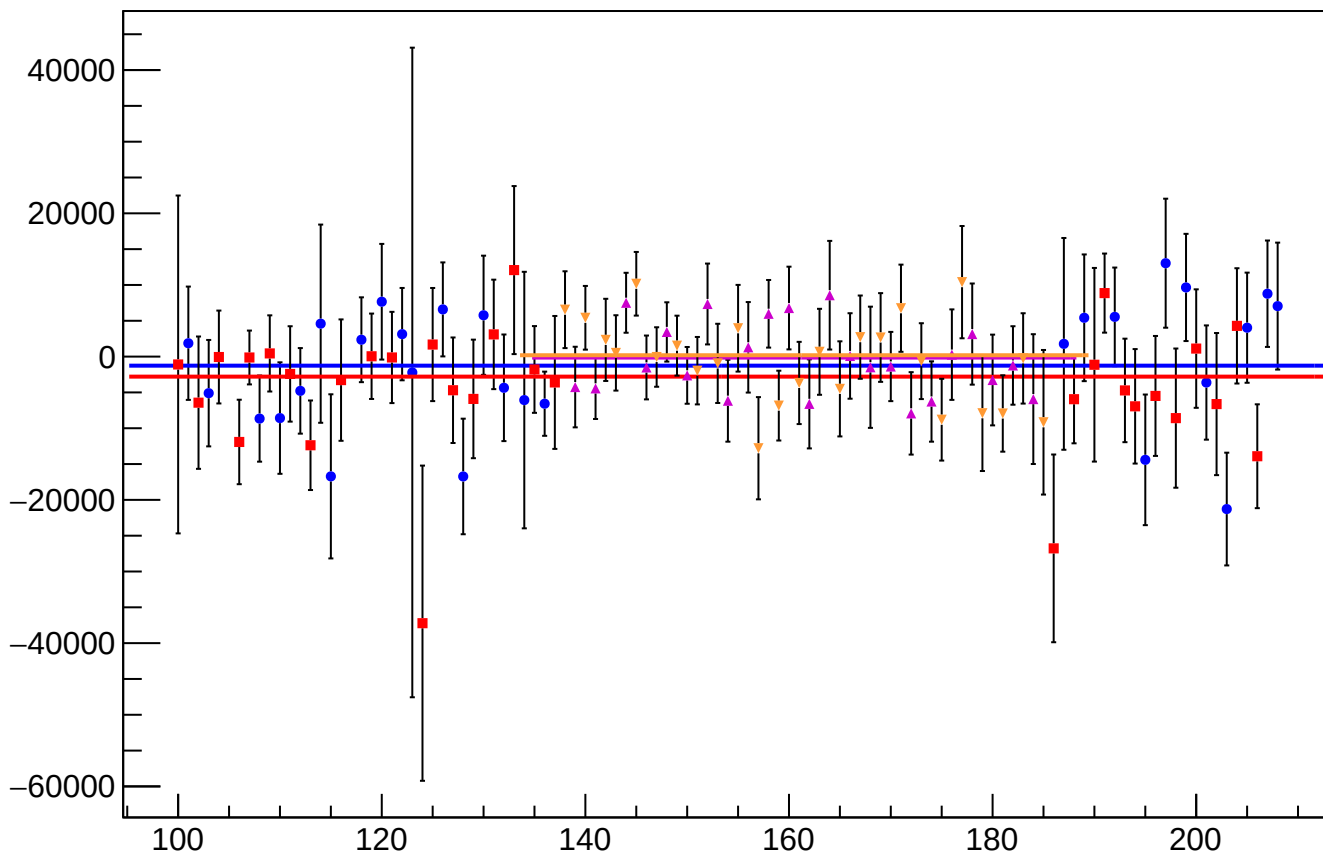
Out: 1253.589+/-0.269

χ^2/NDF :44340219.8/55

All: 1824.101+/-0.244

χ^2/NDF : 73385720.1/131

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1265.601 ± 1455.600 χ^2/NDF : 32.8/27

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2795.679 ± 1300.763 χ^2/NDF : 24.0/30

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

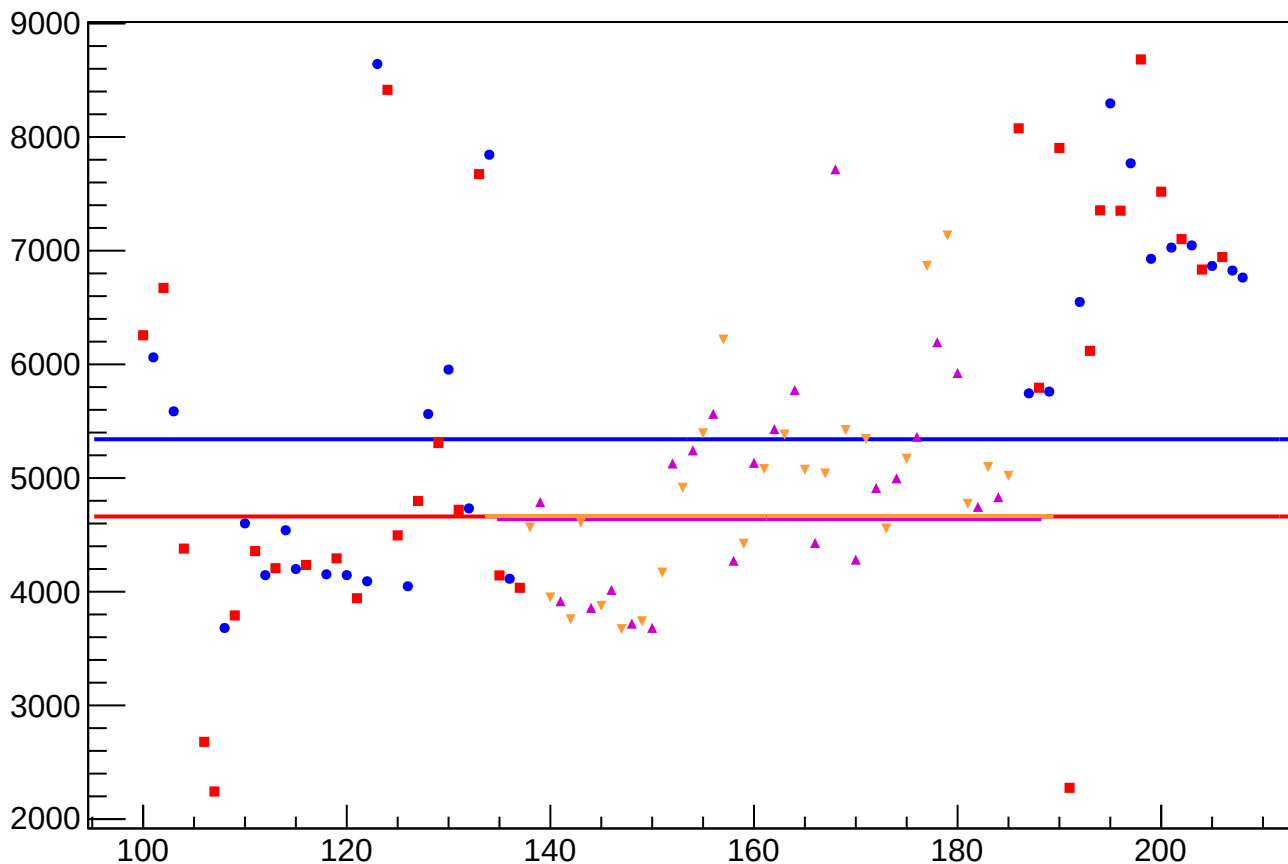
Right: -2116.321 ± 969.917 χ^2/NDF : 57.3/58

In: -561.533 ± 892.432 χ^2/NDF : 51.7/50

Out: -1064.082 ± 842.969 χ^2/NDF : 52.0/55

All: -827.120 ± 612.809 χ^2/NDF : 103.9/106

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5341.341+/-1.029

χ^2/NDF : 1704790.3/27

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

Right: 4962.060+/-0.684 χ^2/NDF : 5739542.7/58

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

In: 4902.243+/-0.631 χ^2/NDF : 3061623.0/50

Right Out: 4661.820+/-0.916 χ^2/NDF : 3791470.1/30

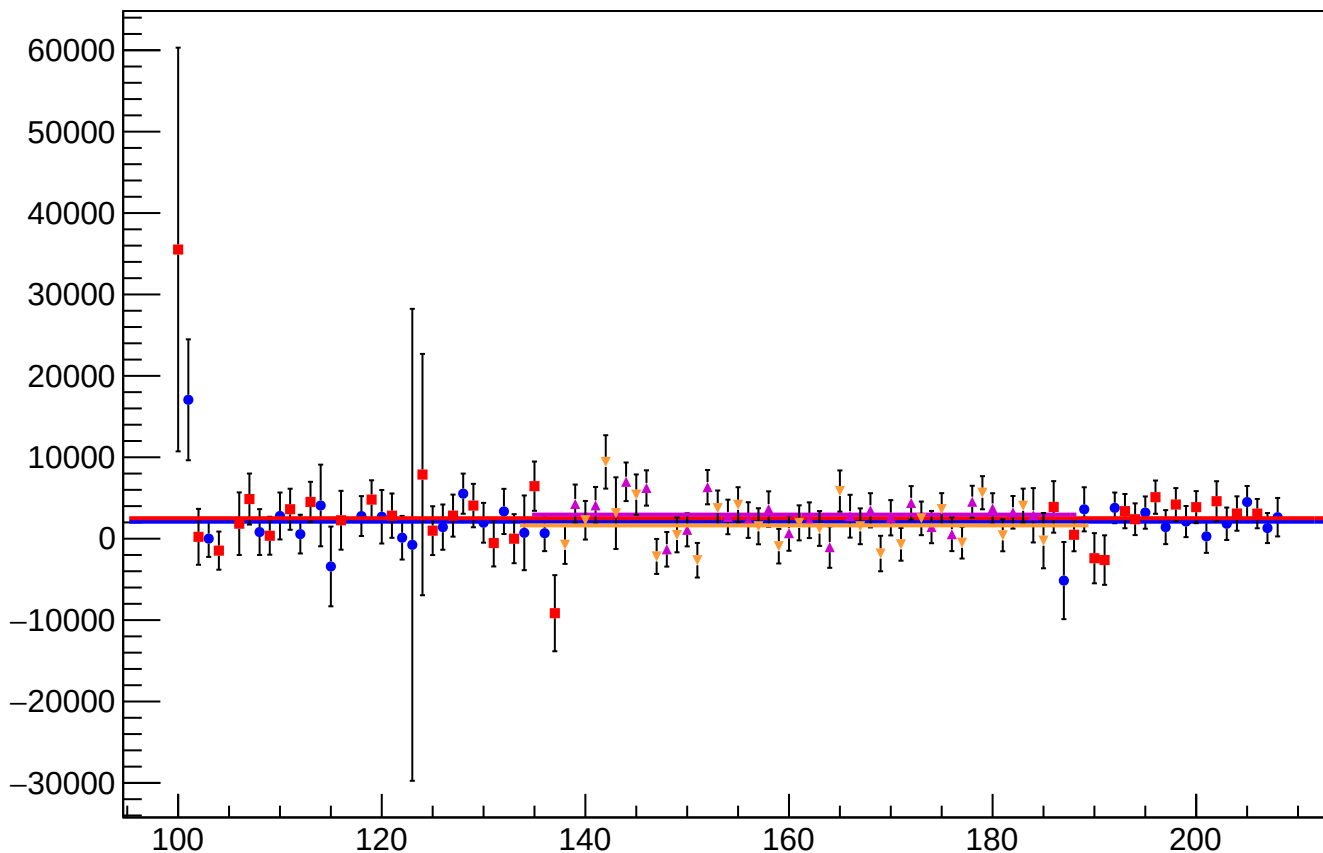
Out: 4664.016+/-0.595 χ^2/NDF : 4808715.0/55

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

All: 4776.126+/-0.433 χ^2/NDF : 7945785.7/10

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2088.339+/-476.127 χ^2/NDF : 16.8/27

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2514.956+/-465.669 χ^2/NDF : 29.3/30

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

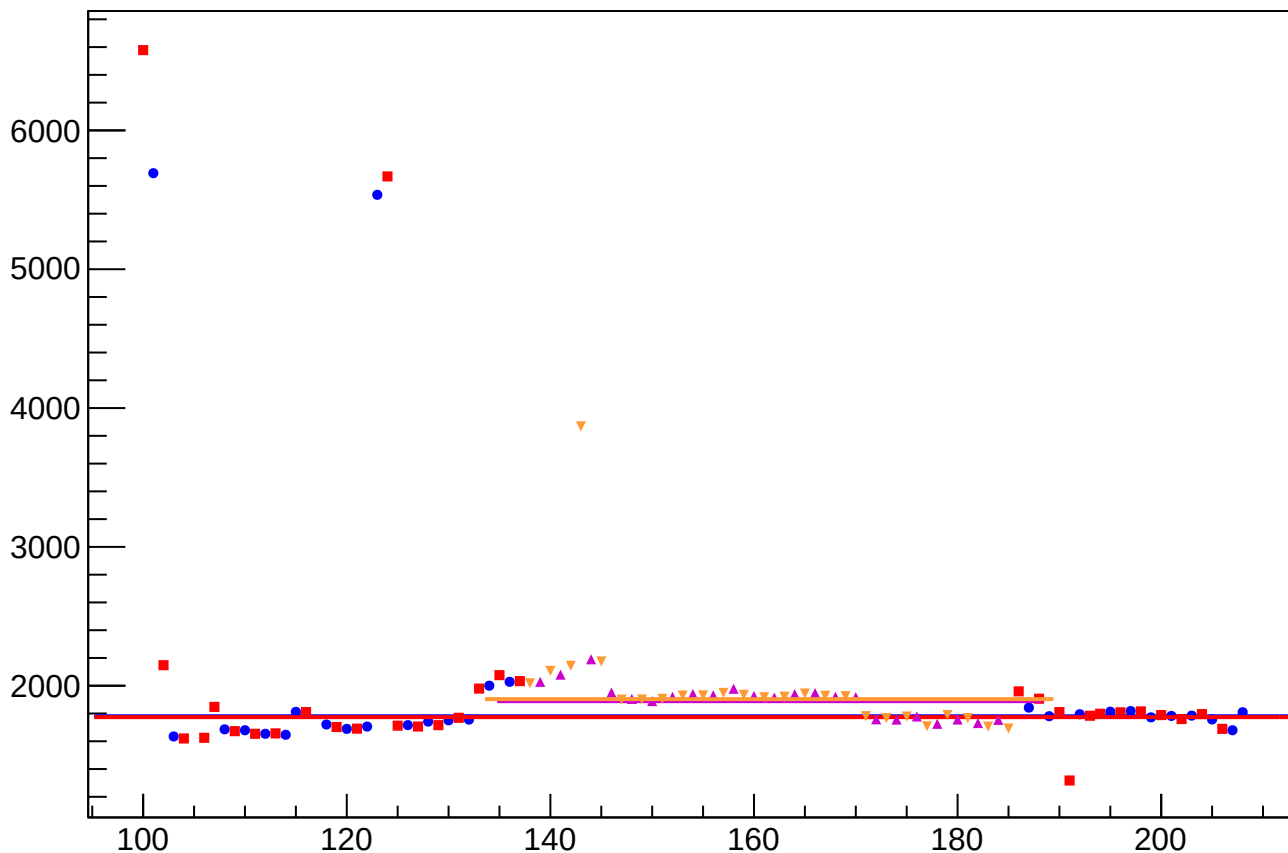
Right: 2306.385+/-332.913 χ^2/NDF : 46.5/58

In: 2544.470+/-328.452 χ^2/NDF : 39.0/50

Out: 2054.465+/-322.498 χ^2/NDF : 66.6/55

All: 2294.986+/-230.117 χ^2/NDF : 106.7/106

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1780.095+/-0.337 χ^2/NDF : 652892.9/27

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1773.712+/-0.328 χ^2/NDF : 373544.8/30

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

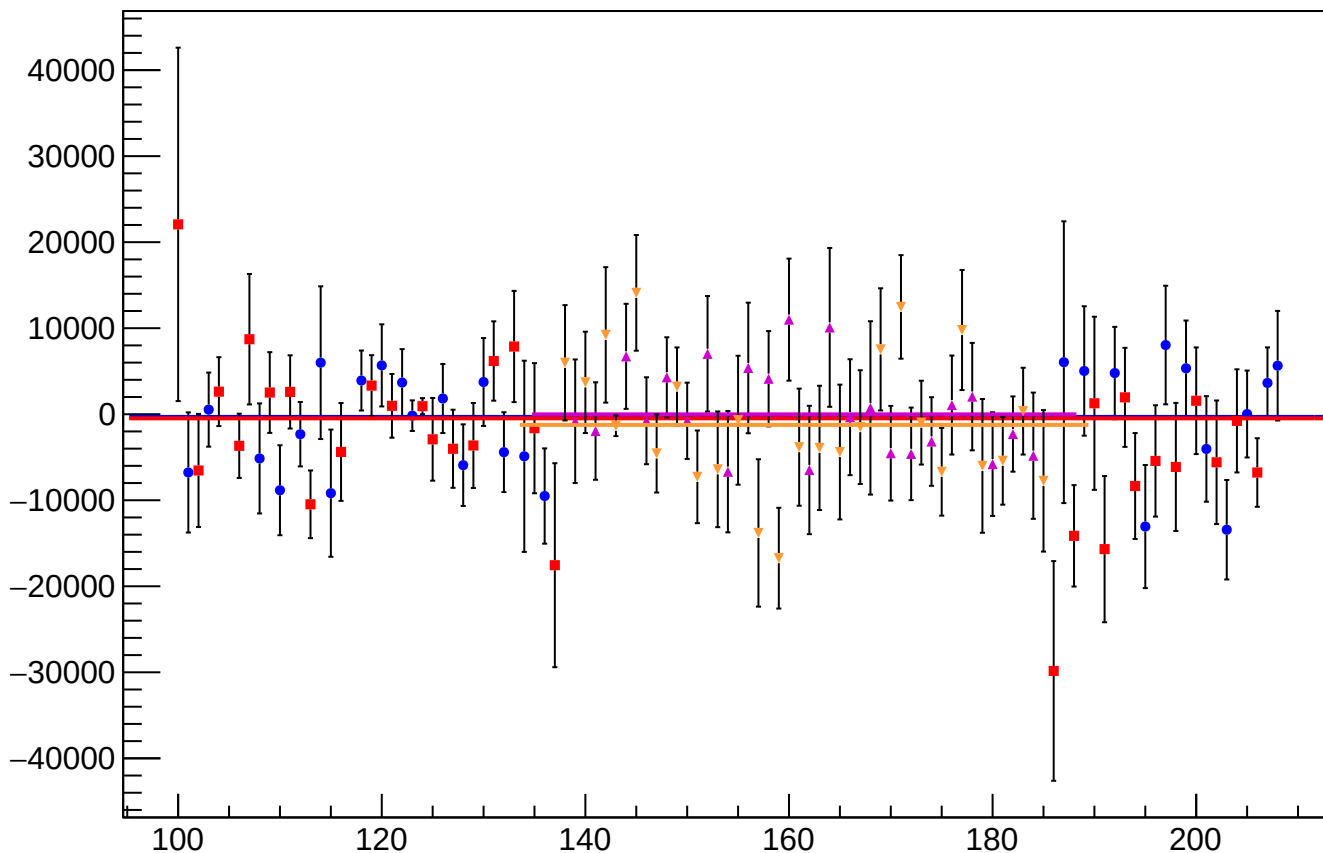
Right: 1776.823+/-0.235 χ^2/NDF : 1026622.0/58

In: 1837.136+/-0.232 χ^2/NDF : 834077.7/50

Out: 1841.105+/-0.228 χ^2/NDF : 996383.4/55

All: 1839.160+/-0.163 χ^2/NDF : 1830610.1/10

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -315.109 ± 881.661 $\chi^2/\text{NDF}: 31.0/27$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: -479.603 ± 675.554 $\chi^2/\text{NDF}: 43.4/30$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

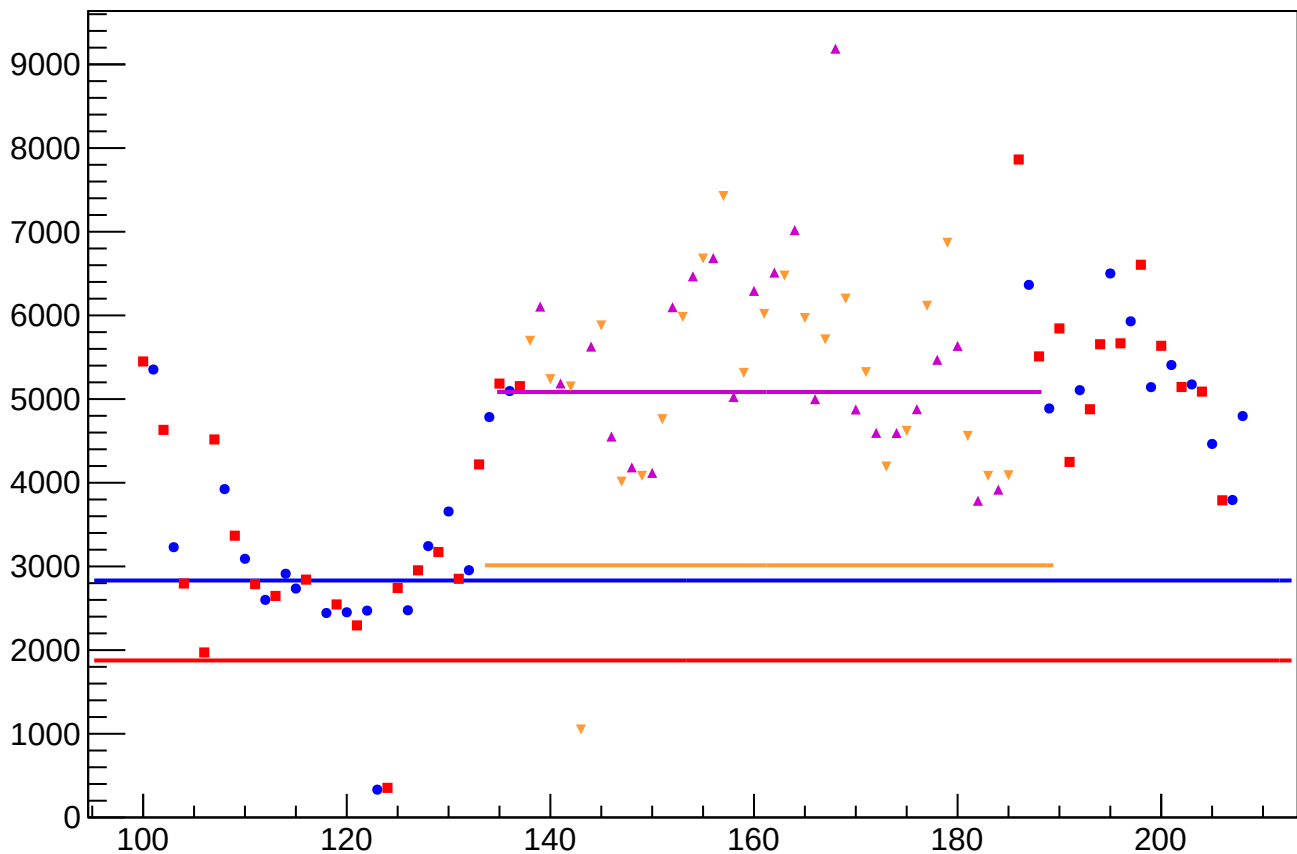
Right: -418.753 ± 536.237 $\chi^2/\text{NDF}: 74.5/58$

In: -214.982 ± 719.190 $\chi^2/\text{NDF}: 44.3/50$

Out: -767.540 ± 532.468 $\chi^2/\text{NDF}: 77.8/55$

All: -571.897 ± 427.944 $\chi^2/\text{NDF}: 122.5/106$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2831.860 $\pm$ 0.623

χ^2/NDF : 7902177.7/27

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: 2229.728 $\pm$ 0.379

χ^2/NDF : 23816792.6/58

Right Out: 1876.214 $\pm$ 0.478

χ^2/NDF : 14434092.5/30

In: 3585.637 $\pm$ 0.509

χ^2/NDF : 13574841.6/50

Out: 2306.873 $\pm$ 0.377

χ^2/NDF : 28850823.4/55

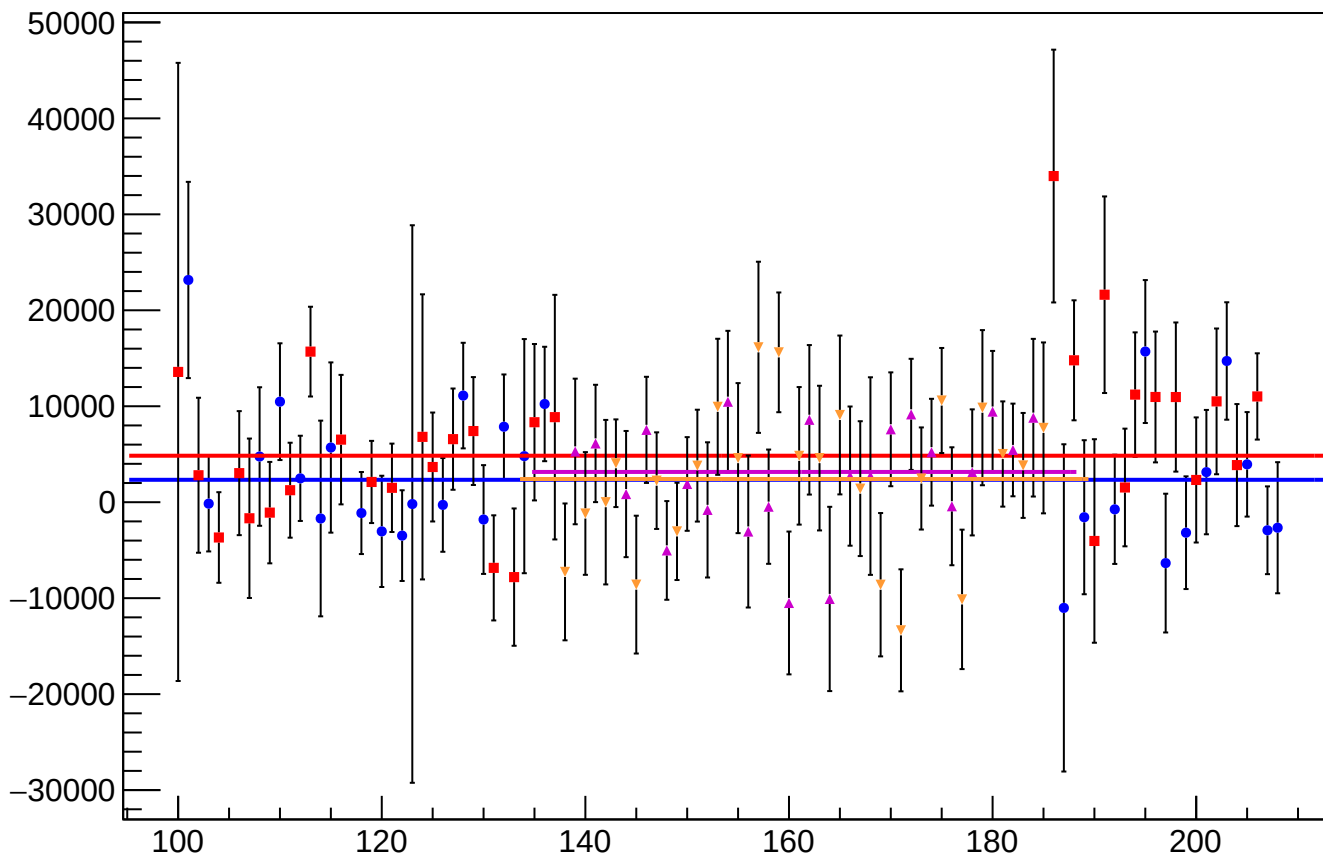
Left In: 5084.645 $\pm$ 0.879

χ^2/NDF : 1303587.7/22

All: 2759.642 $\pm$ 0.303

χ^2/NDF : 46509902.3/131

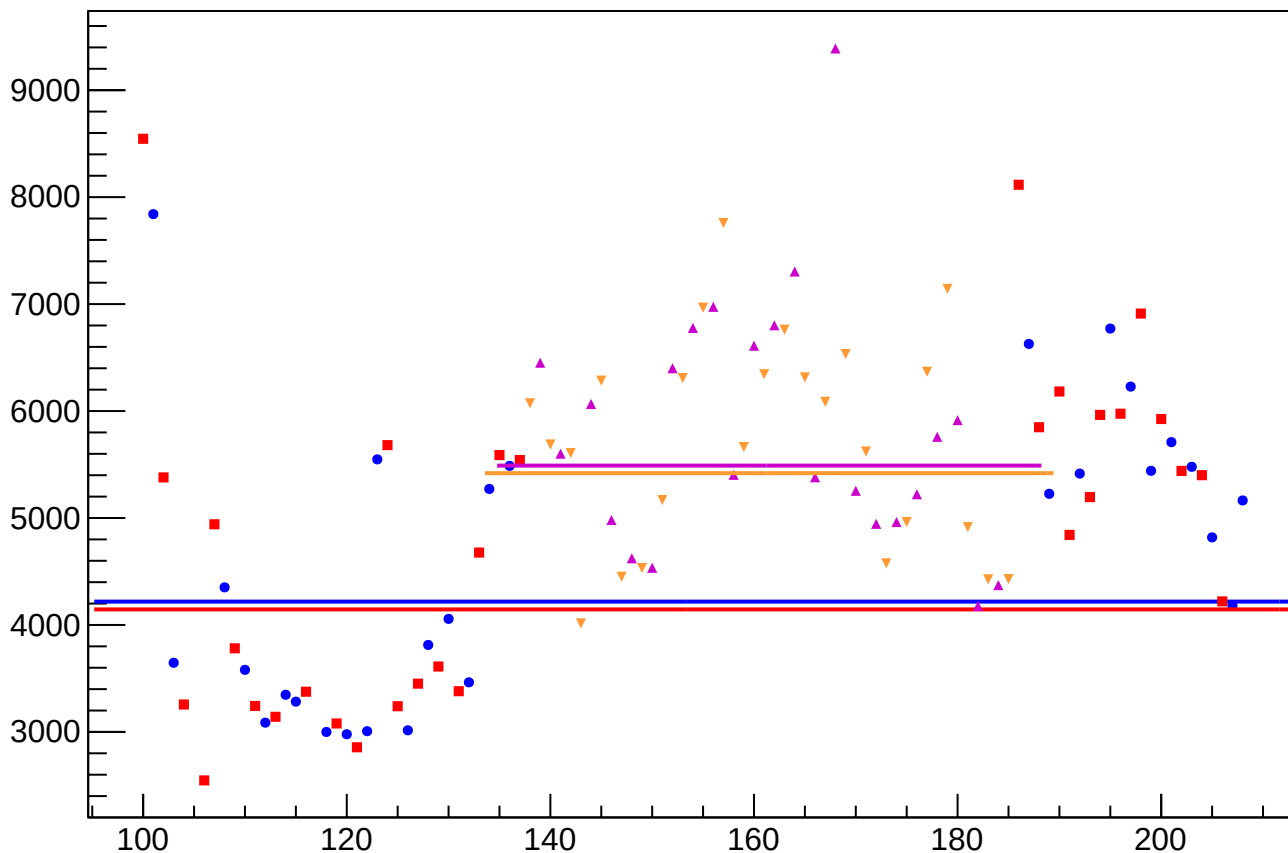
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2334.826+/-1159.586 χ^2/NDF : 28.6/27
 Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24
 Right Out: 4844.158+/-1135.072 χ^2/NDF : 36.7/30
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 3616.296+/-811.145 χ^2/NDF : 67.7/58
 In: 2686.143+/-876.116 χ^2/NDF : 44.3/50
 Out: 3781.840+/-851.140 χ^2/NDF : 68.6/55
 All: 3249.832+/-610.486 χ^2/NDF : 113.7/106

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4218.496 $\pm$ 0.820

χ^2/NDF : 2024077.8/27

Left Out: 5419.305 $\pm$ 0.910

χ^2/NDF : 1109972.1/24

Right Out: 4145.339 $\pm$ 0.795

χ^2/NDF : 2421059.2/30

Left In: 5489.885 $\pm$ 0.946

χ^2/NDF : 1064353.3/22

Left: 5453.227 $\pm$ 0.656 χ^2/NDF : 2177218.7/47

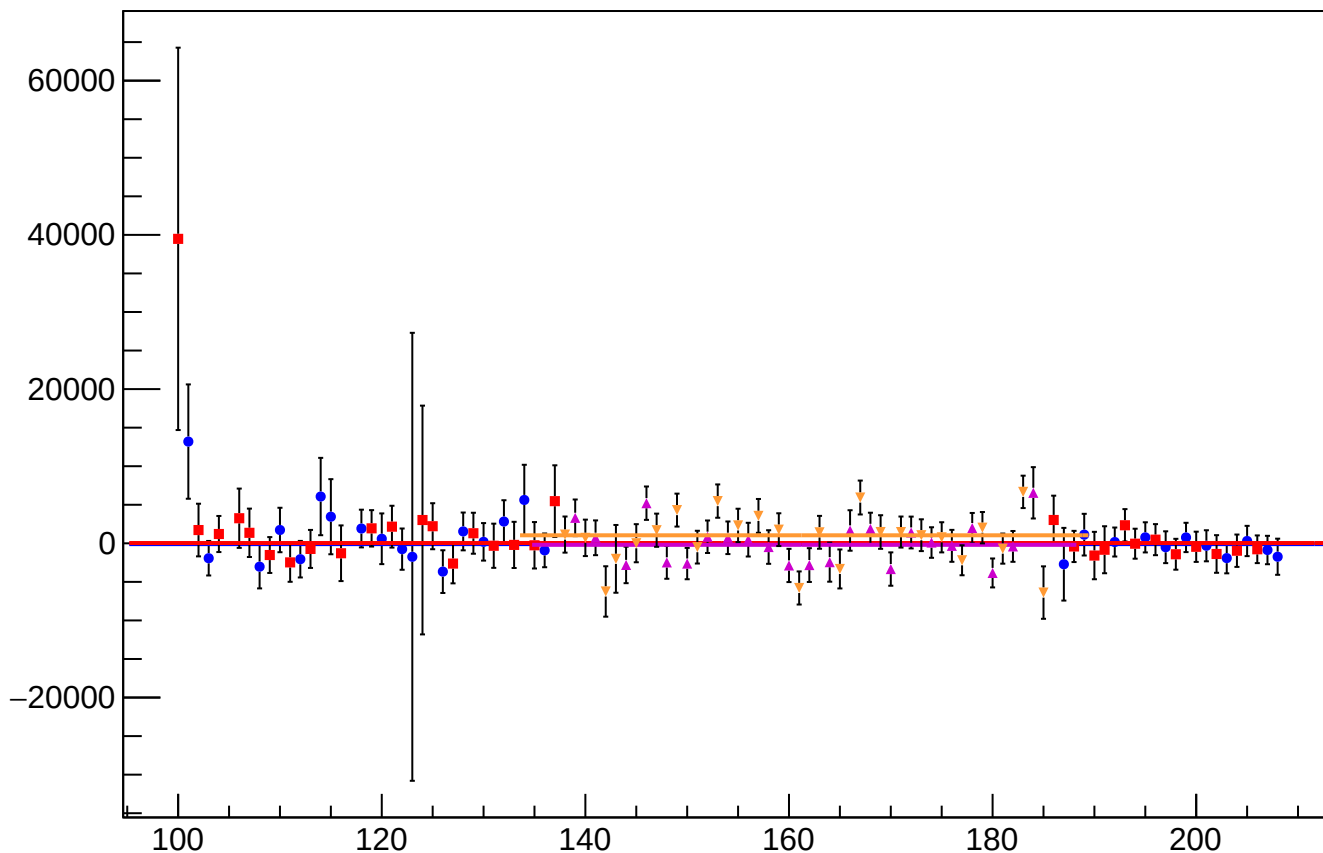
Right: 4180.788 $\pm$ 0.571 χ^2/NDF : 4449240.1/58

In: 4764.117 $\pm$ 0.620 χ^2/NDF : 4120236.7/50

Out: 4697.009 $\pm$ 0.599 χ^2/NDF : 4643007.0/55

All: 4729.413 $\pm$ 0.430 χ^2/NDF : 8769312.0/10

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -103.313 ± 473.779 $\chi^2/\text{NDF}: 16.4/27$

Left Out: 1041.262 ± 446.249 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 39.112 ± 463.623 $\chi^2/\text{NDF}: 14.0/30$

Left In: -191.966 ± 453.055 $\chi^2/\text{NDF}: 30.0/22$

Left: 433.980 ± 317.925 $\chi^2/\text{NDF}: 82.3/47$

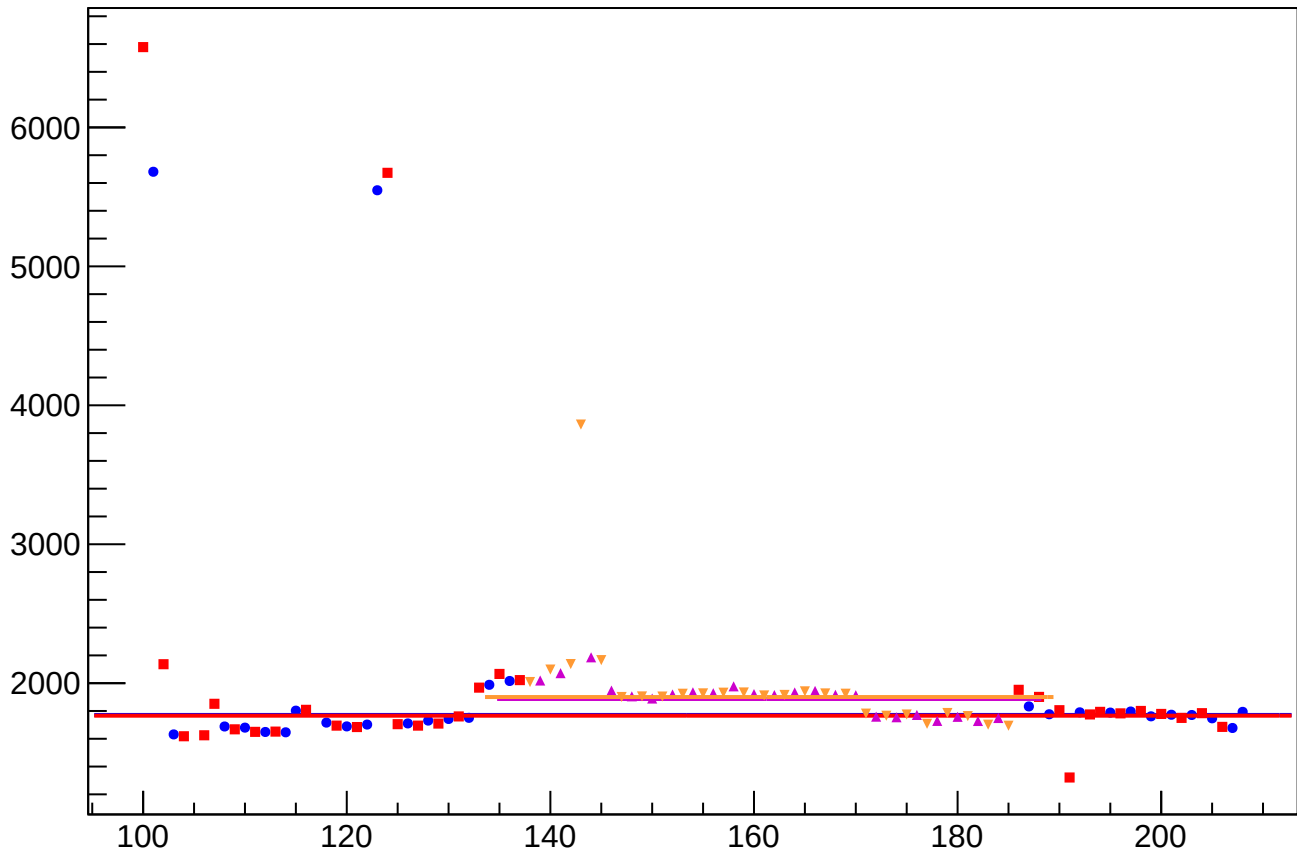
Right: -30.557 ± 331.363 $\chi^2/\text{NDF}: 30.5/58$

In: -149.621 ± 327.440 $\chi^2/\text{NDF}: 46.4/50$

Out: 559.315 ± 321.512 $\chi^2/\text{NDF}: 65.0/55$

All: 211.322 ± 229.410 $\chi^2/\text{NDF}: 113.8/106$

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1771.456+/-0.335 χ^2/NDF : 649863.6/27

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1766.137+/-0.327 χ^2/NDF : 369798.9/30

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

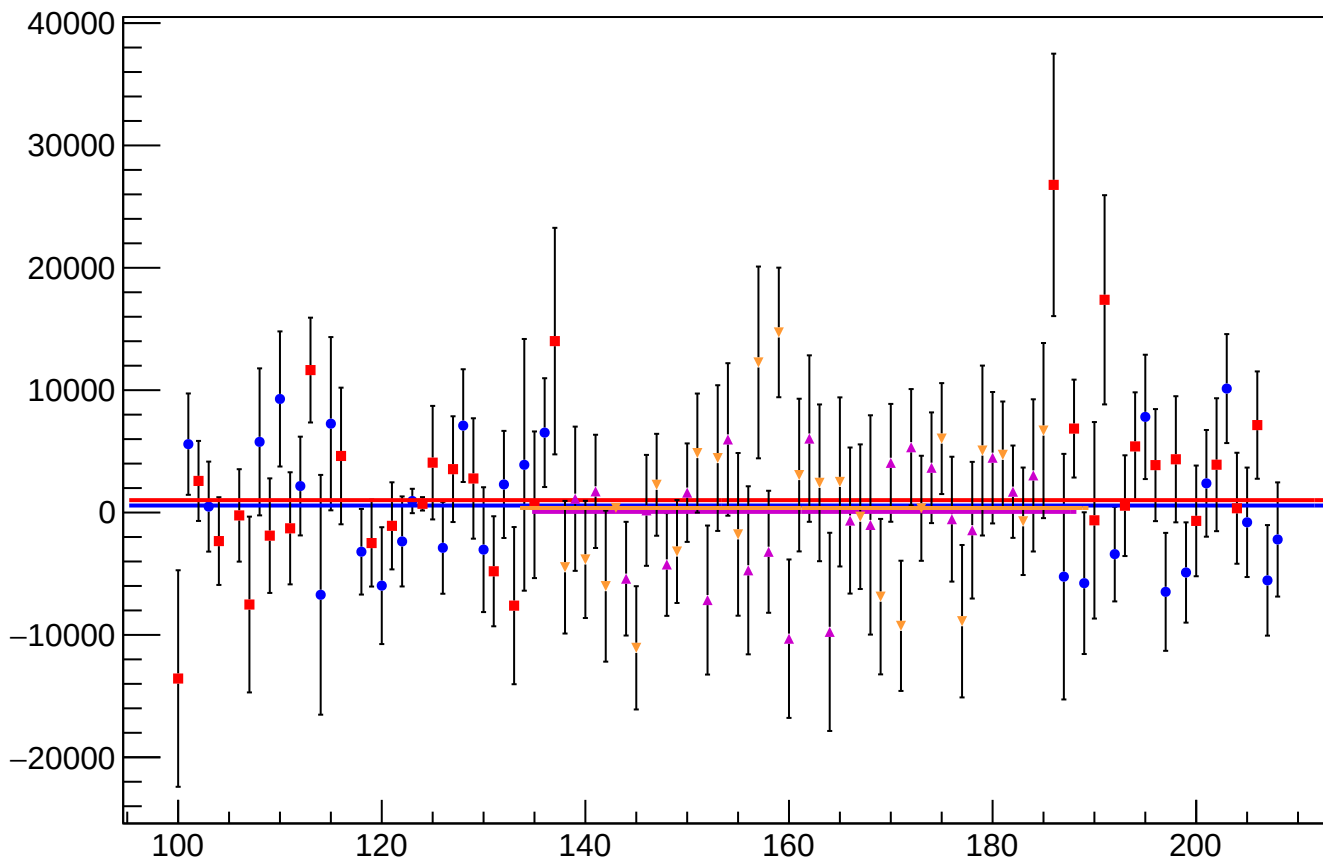
Right: 1768.730+/-0.234 χ^2/NDF : 1019791.7/58

In: 1831.485+/-0.232 χ^2/NDF : 834851.4/50

Out: 1835.564+/-0.227 χ^2/NDF : 994907.8/55

All: 1833.565+/-0.162 χ^2/NDF : 1829917.5/10

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 573.207 $\pm$ 665.465 χ^2 /NDF: 31.1/27

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 1013.236 $\pm$ 462.561 χ^2 /NDF: 36.4/30

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

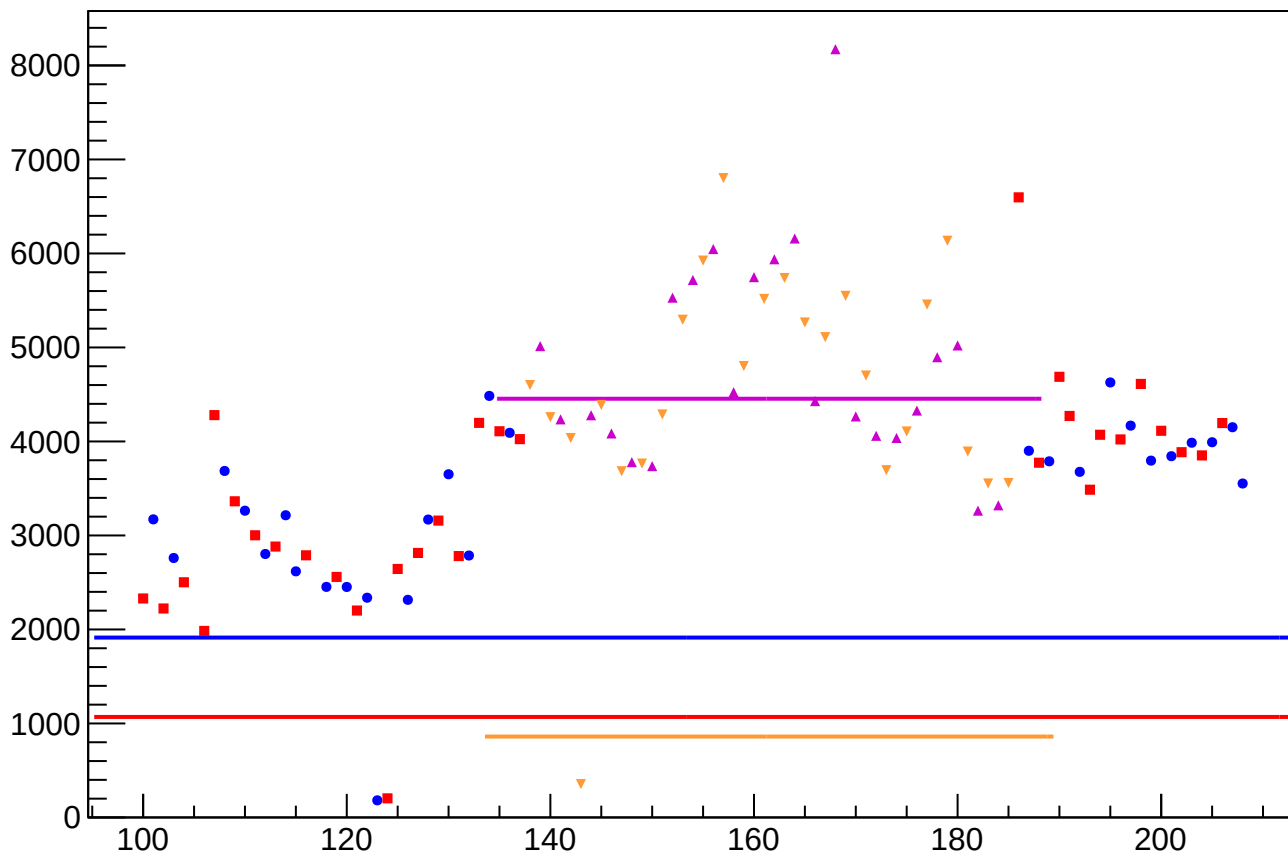
Right: 869.892 $\pm$ 379.818 χ^2 /NDF: 67.8/58

In: 431.963 $\pm$ 567.963 χ^2 /NDF:45.9/50

Out: 632.821 $\pm$ 294.576 χ^2 /NDF:68.3/55

All: 590.243 $\pm$ 261.497 χ^2 /NDF: 114.3/106

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1913.595 $\pm$ 0.471 χ^2 /NDF: 12106223.7/27

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1069.252 $\pm$ 0.327 χ^2 /NDF: 19188645.4/30

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

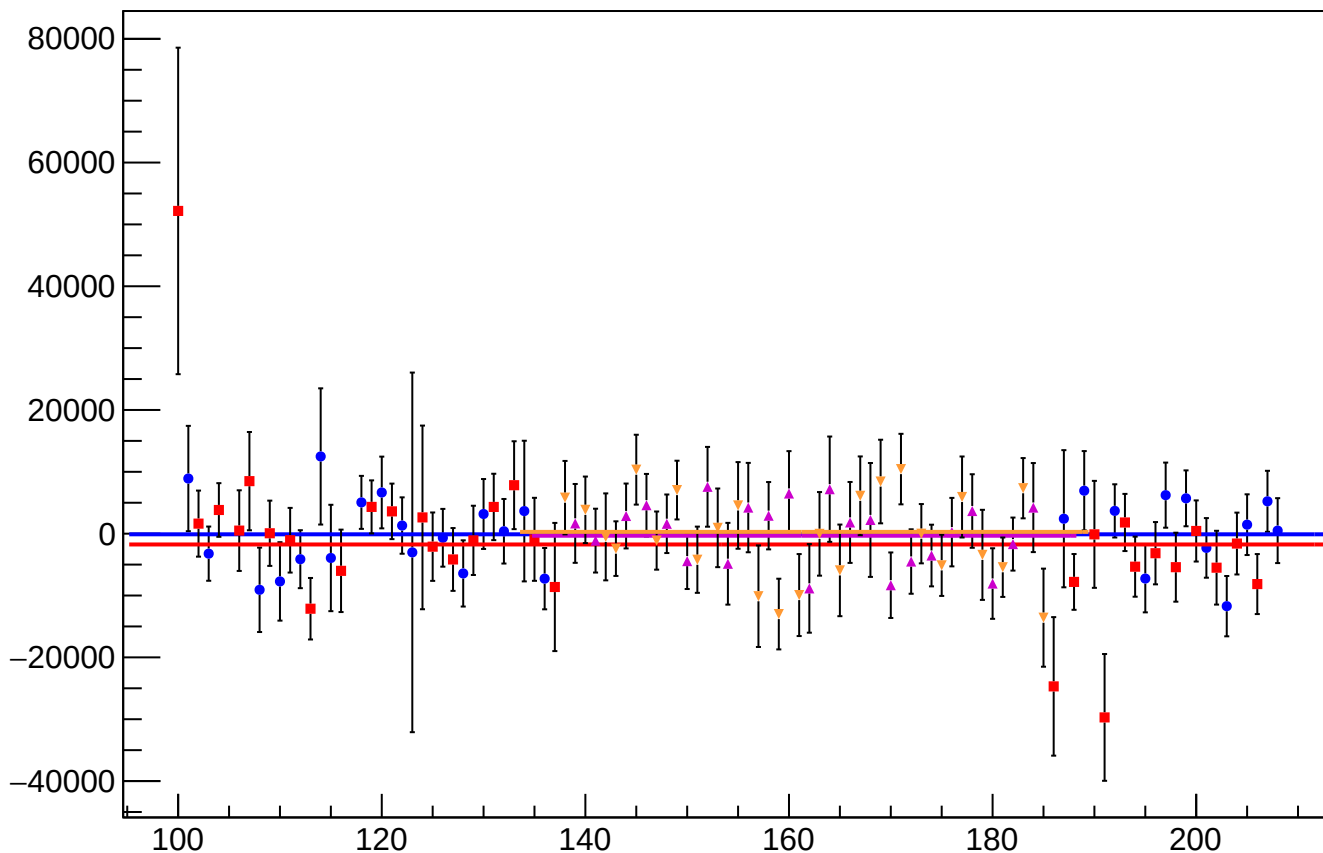
Right: 1344.307 $\pm$ 0.269 χ^2 /NDF: 33465722.5/58

In: 2603.594 $\pm$ 0.402 χ^2 /NDF: 21373690.6/50

Out: 945.189 $\pm$ 0.208 χ^2 /NDF: 45770783.3/55

All: 1296.736 $\pm$ 0.185 χ^2 /NDF: 80581671.4/105

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -103.132 $\pm$ 1042.998 χ^2 /NDF: 27.9/27

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -1746.465 $\pm$ 1023.316 χ^2 /NDF: 37.7/30

Left In: -332.488 $\pm$ 1196.011 χ^2 /NDF:14.7/22

Left: -11.273 $\pm$ 830.984 χ^2 /NDF: 47.2/47

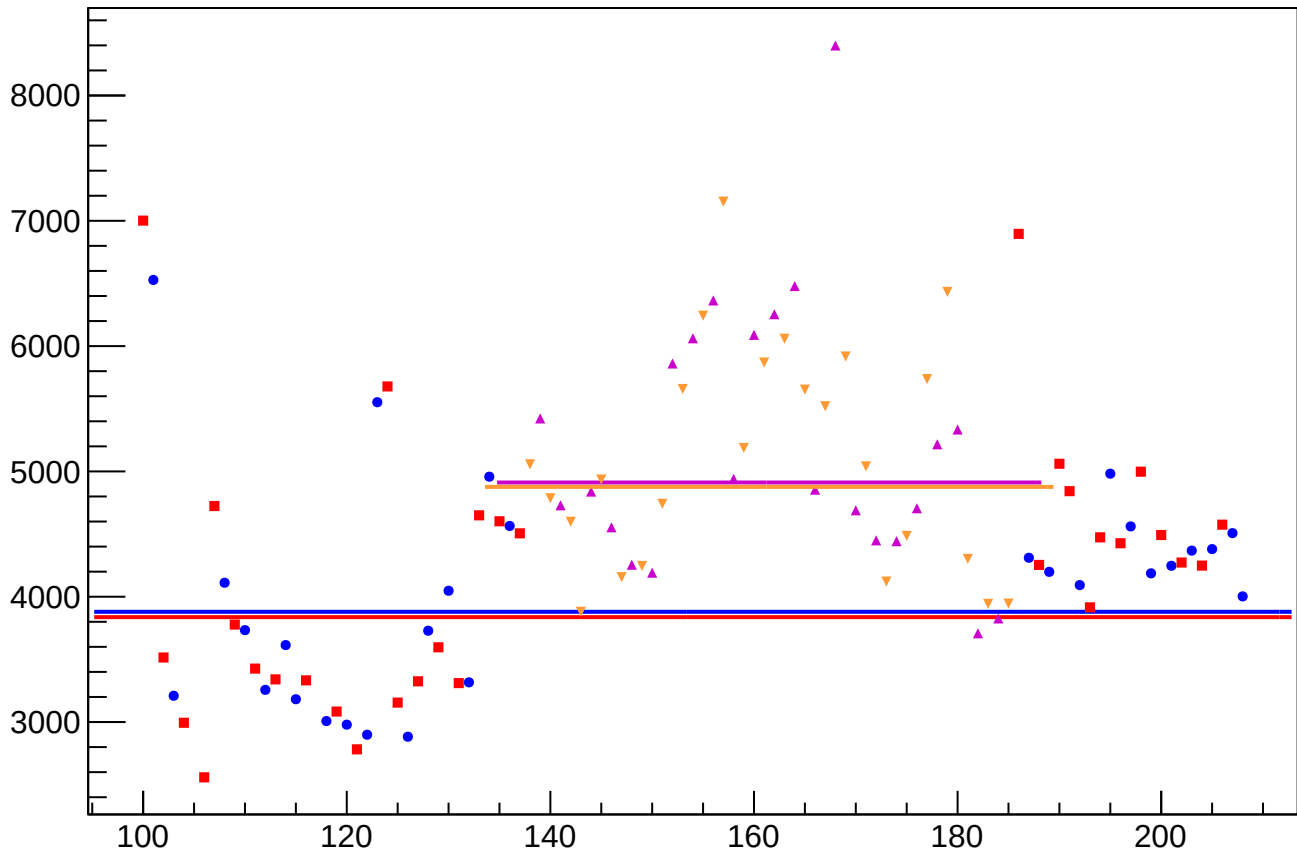
Right: -940.450 $\pm$ 730.453 χ^2 /NDF: 66.9/58

In: -202.209 $\pm$ 786.079 χ^2 /NDF:42.6/50

Out: -851.913 $\pm$ 766.060 χ^2 /NDF:71.8/55

All: -535.439 $\pm$ 548.627 χ^2 /NDF: 114.8/106

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3879.702 $\pm$ 0.738 χ^2 /NDF: 920407.7/27

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3837.005 $\pm$ 0.718 χ^2 /NDF: 1123655.7/30

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

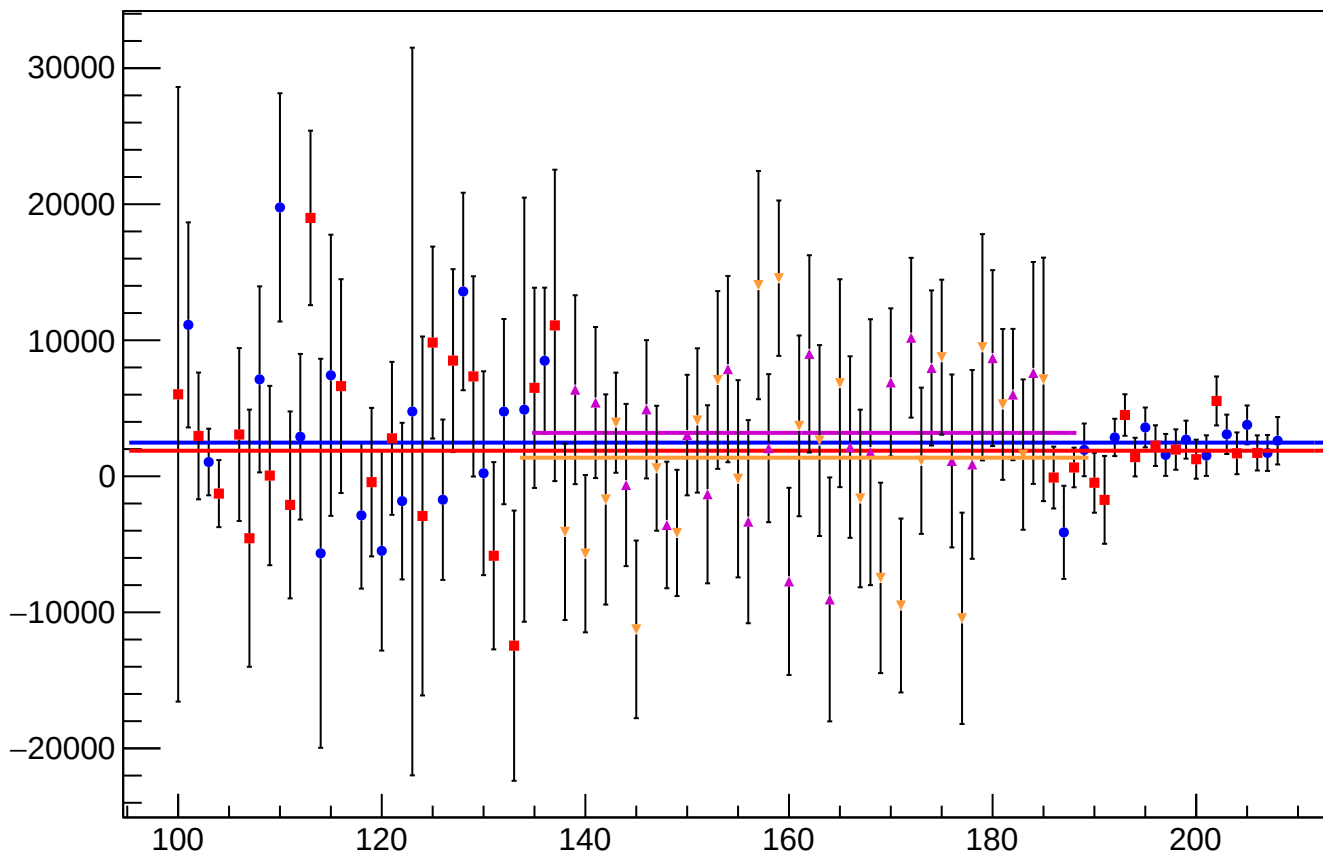
Right: 3857.781 $\pm$ 0.514 χ^2 /NDF: 2045784.2/58

In: 4325.435 $\pm$ 0.556 χ^2 /NDF: 2809151.2/50

Out: 4290.013 $\pm$ 0.539 χ^2 /NDF: 3009677.7/55

All: 4307.190 $\pm$ 0.387 χ^2 /NDF: 5820920.7/10

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2475.086 $\pm$ 443.887 χ^2 /NDF: 20.6/27

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1880.106 $\pm$ 441.423 χ^2 /NDF: 29.0/30

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

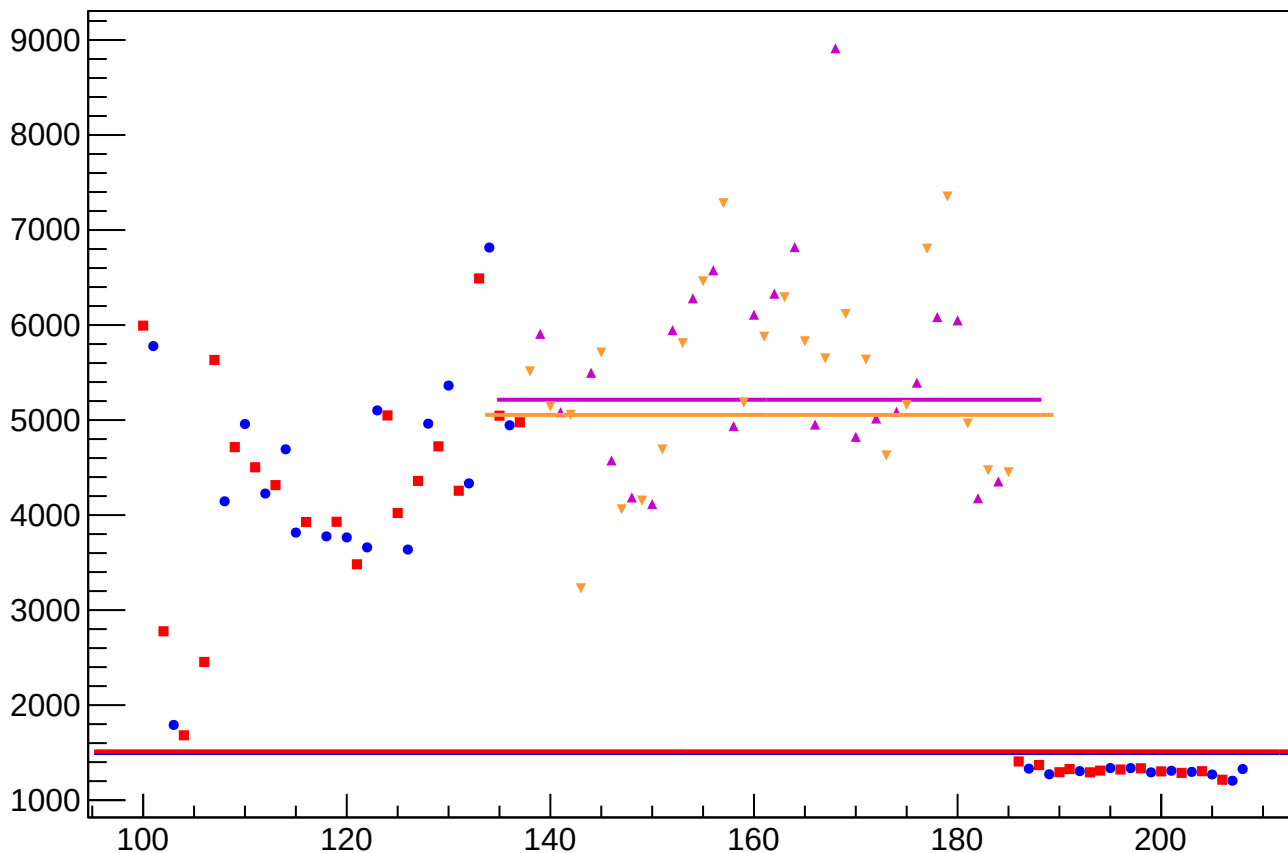
Right: 2175.940 $\pm$ 313.001 χ^2 /NDF: 50.4/58

In: 2553.038 $\pm$ 419.030 χ^2 /NDF:34.8/50

Out: 1819.283 $\pm$ 414.539 χ^2 /NDF:57.1/55

All: 2182.207 $\pm$ 294.698 χ^2 /NDF: 93.5/106

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1495.685 $\pm$ 0.314 χ^2 /NDF: 5837969.3/27

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1513.553 $\pm$ 0.312 χ^2 /NDF: 5746095.3/30

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

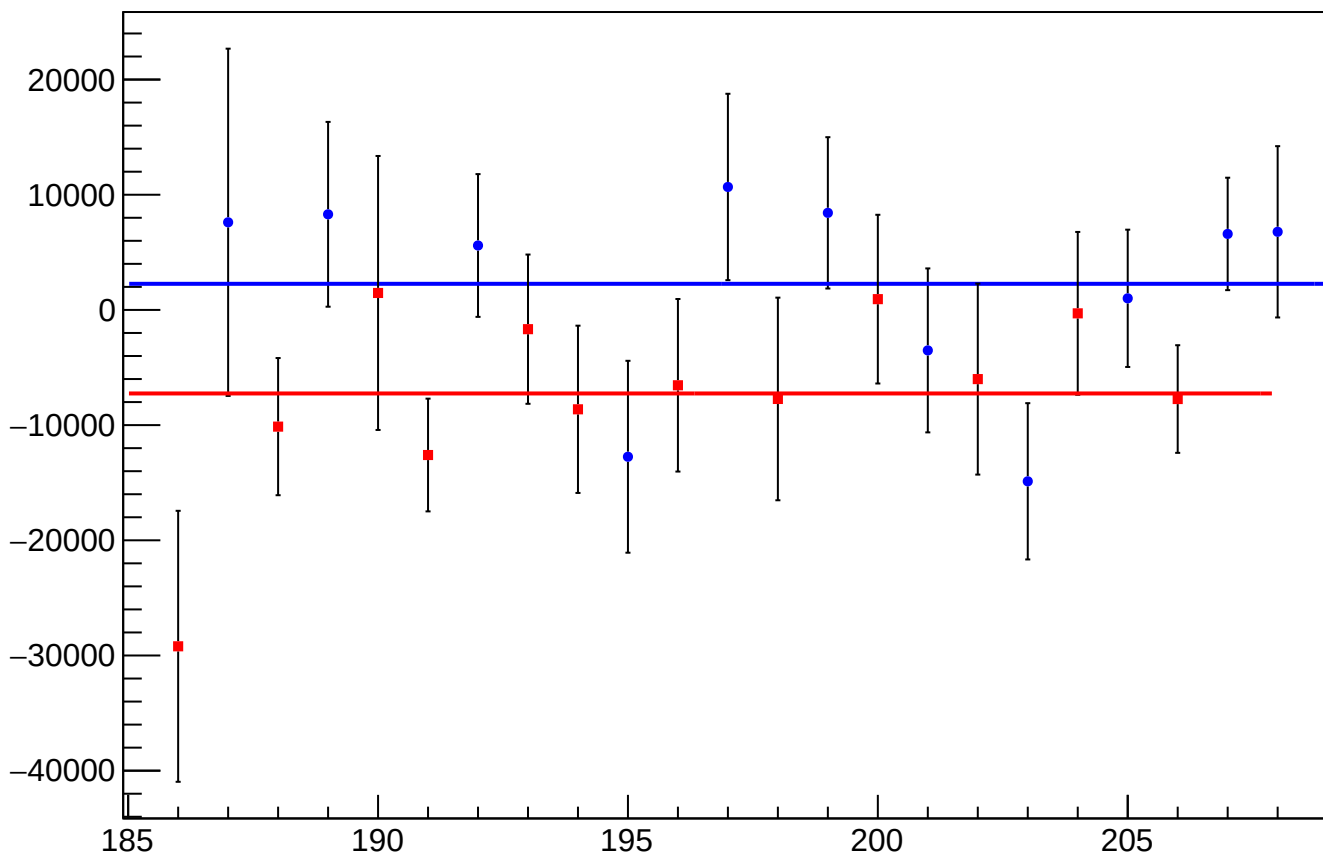
Right: 1504.677 $\pm$ 0.221 χ^2 /NDF: 11585695.6/58

In: 1900.472 $\pm$ 0.296 χ^2 /NDF:22168756.5/50

Out: 1931.058 $\pm$ 0.293 χ^2 /NDF:22387069.0/55

All: 1915.943 $\pm$ 0.208 χ^2 /NDF: 44561215.3/102

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2267.180+/-2091.785 χ^2/NDF : 14.4/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -7251.852+/-1973.248 χ^2/NDF : 8.5/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

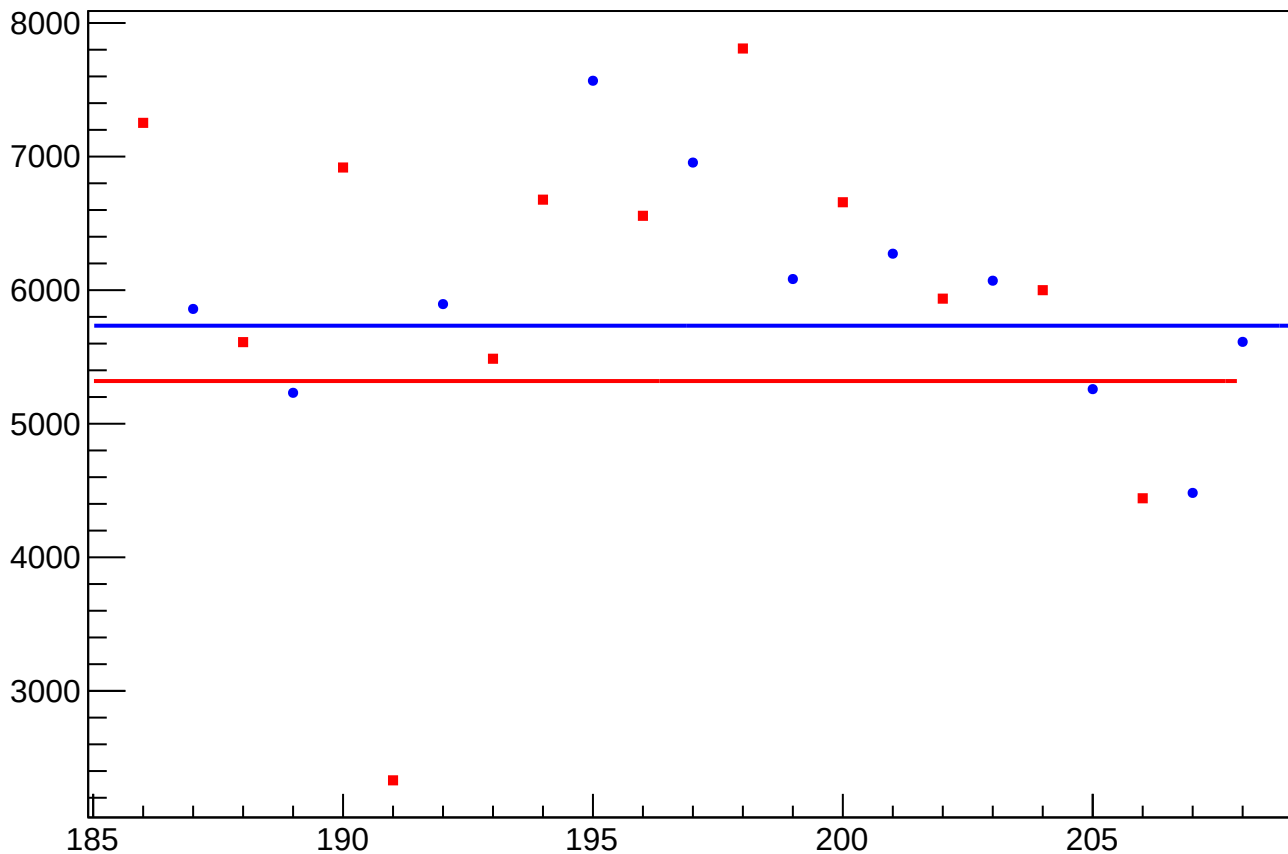
Right: -2769.677+/-1435.374 χ^2/NDF : 33.9/22

In: 2267.180+/-2091.785 χ^2/NDF : 14.4/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -2769.677+/-1435.374 χ^2/NDF : 33.9/22

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5733.919+/-1.479 χ^2/NDF : 318697.1/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5319.633+/-1.395 χ^2/NDF : 1294076.0/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

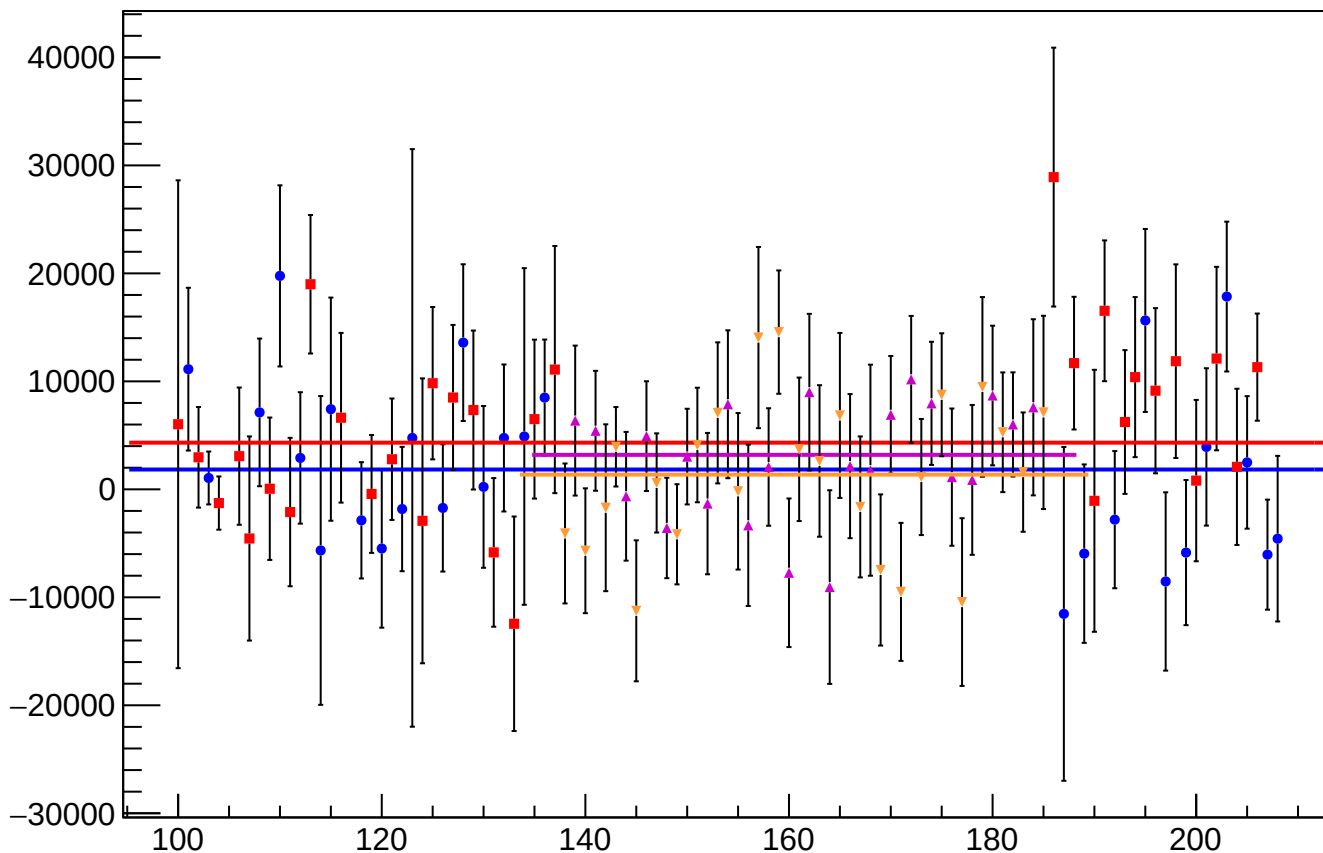
Right: 5514.706+/-1.015 χ^2/NDF : 1654284.0/22

In: 5733.919+/-1.479 χ^2/NDF : 318697.1/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5514.706+/-1.015 χ^2/NDF : 1654284.0/22

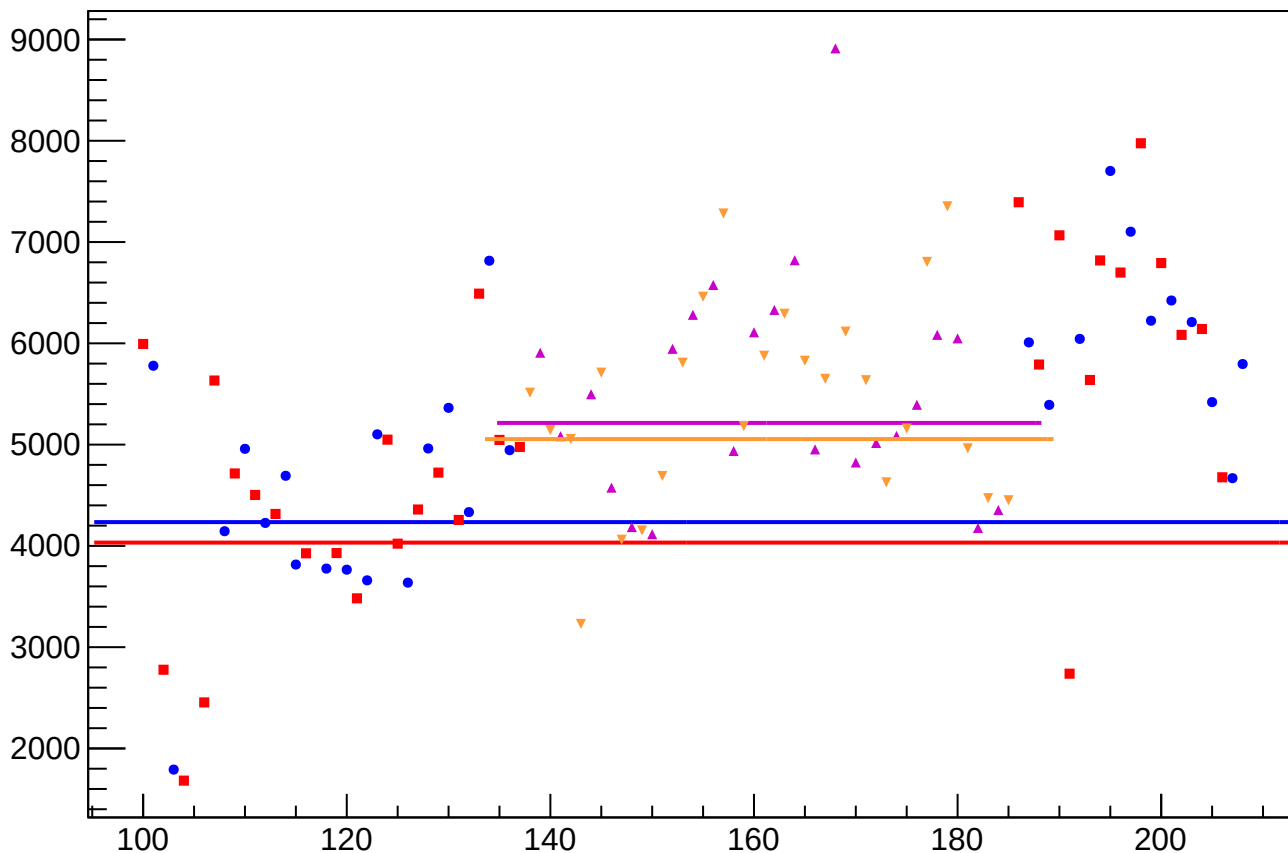
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1835.434+/-1205.802 χ^2/NDF : 30.6/27
 Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24
 Right Out: 4321.137+/-1156.490 χ^2/NDF : 34.9/30
 Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47
 Right: 3130.151+/-834.651 χ^2/NDF : 67.7/58
 In: 2478.155+/-874.453 χ^2/NDF : 45.2/50
 Out: 2905.358+/-834.805 χ^2/NDF : 66.0/55
 All: 2701.661+/-603.826 χ^2/NDF : 111.3/106

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4234.883+/-0.853

χ^2/NDF : 3810279.1/27

Left Out: 5054.711+/-0.853

χ^2/NDF : 1437224.7/24

Right Out: 4032.680+/-0.812

χ^2/NDF : 4618557.2/30

Left In: 5214.120+/-0.898

χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618

χ^2/NDF : 2506291.2/47

Right: 4128.912+/-0.588

χ^2/NDF : 8458312.3/58

In: 4699.110+/-0.618

χ^2/NDF : 5488113.1/50

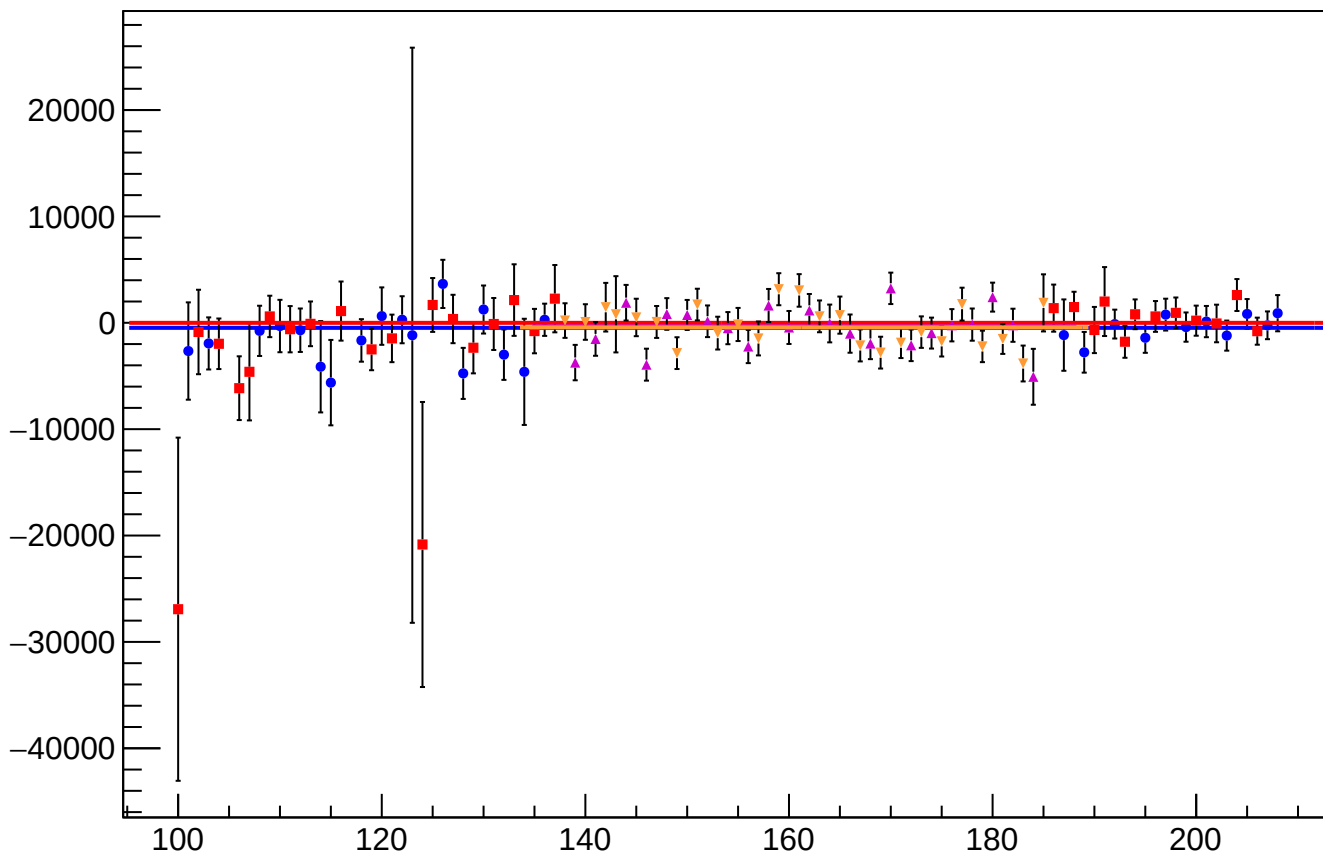
Out: 4518.876+/-0.588

χ^2/NDF : 6808510.6/55

All: 4604.512+/-0.426

χ^2/NDF : 12341219.0/1

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -474.817+/-364.833 χ^2/NDF : 17.4/27

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -4.300+/-362.925 χ^2/NDF : 23.7/30

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

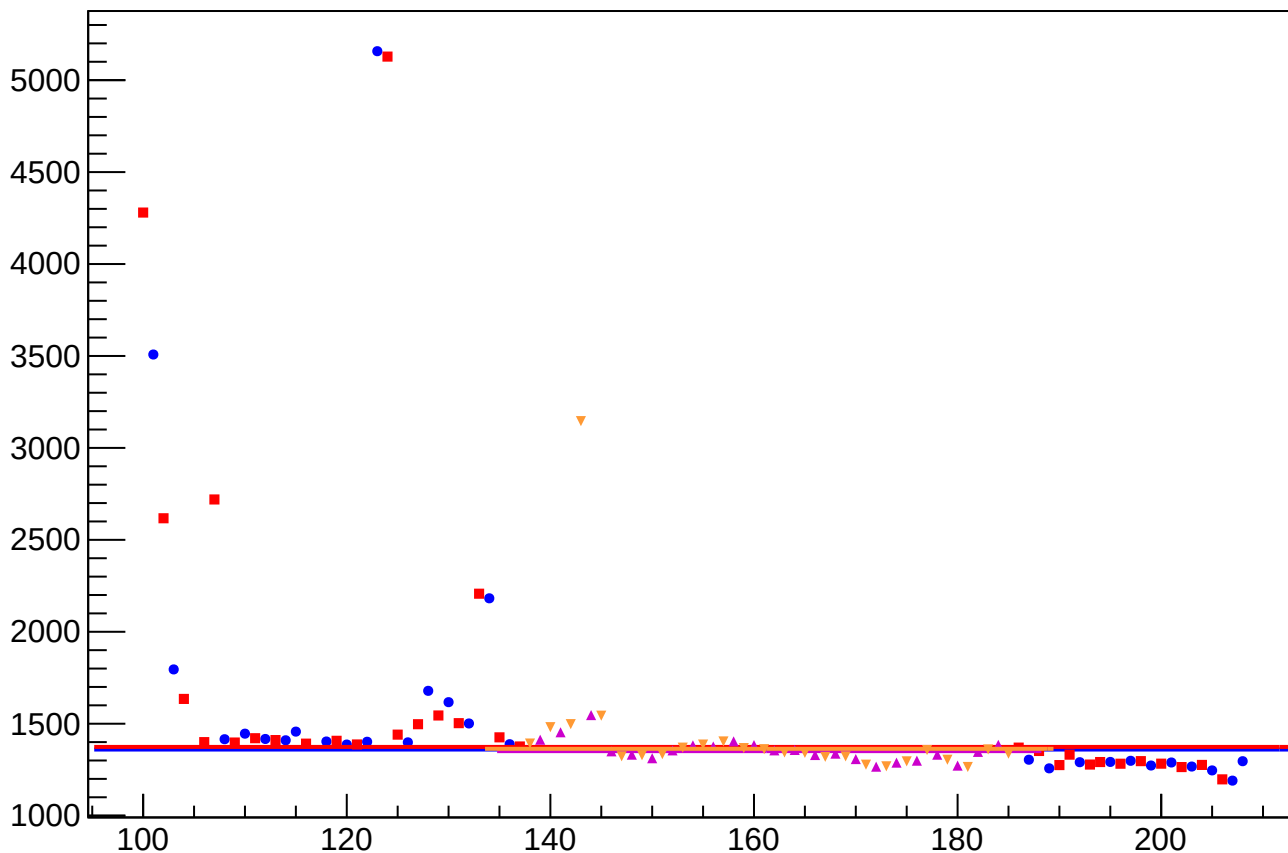
Right: -238.325+/-257.299 χ^2/NDF : 42.0/58

In: -401.607+/-242.412 χ^2/NDF :51.3/50

Out: -244.412+/-240.251 χ^2/NDF :57.5/55

All: -322.306+/-170.642 χ^2/NDF : 109.0/106

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1359.580+/-0.258 χ^2/NDF : 766490.1/27

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1373.836+/-0.257 χ^2/NDF : 862013.7/30

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

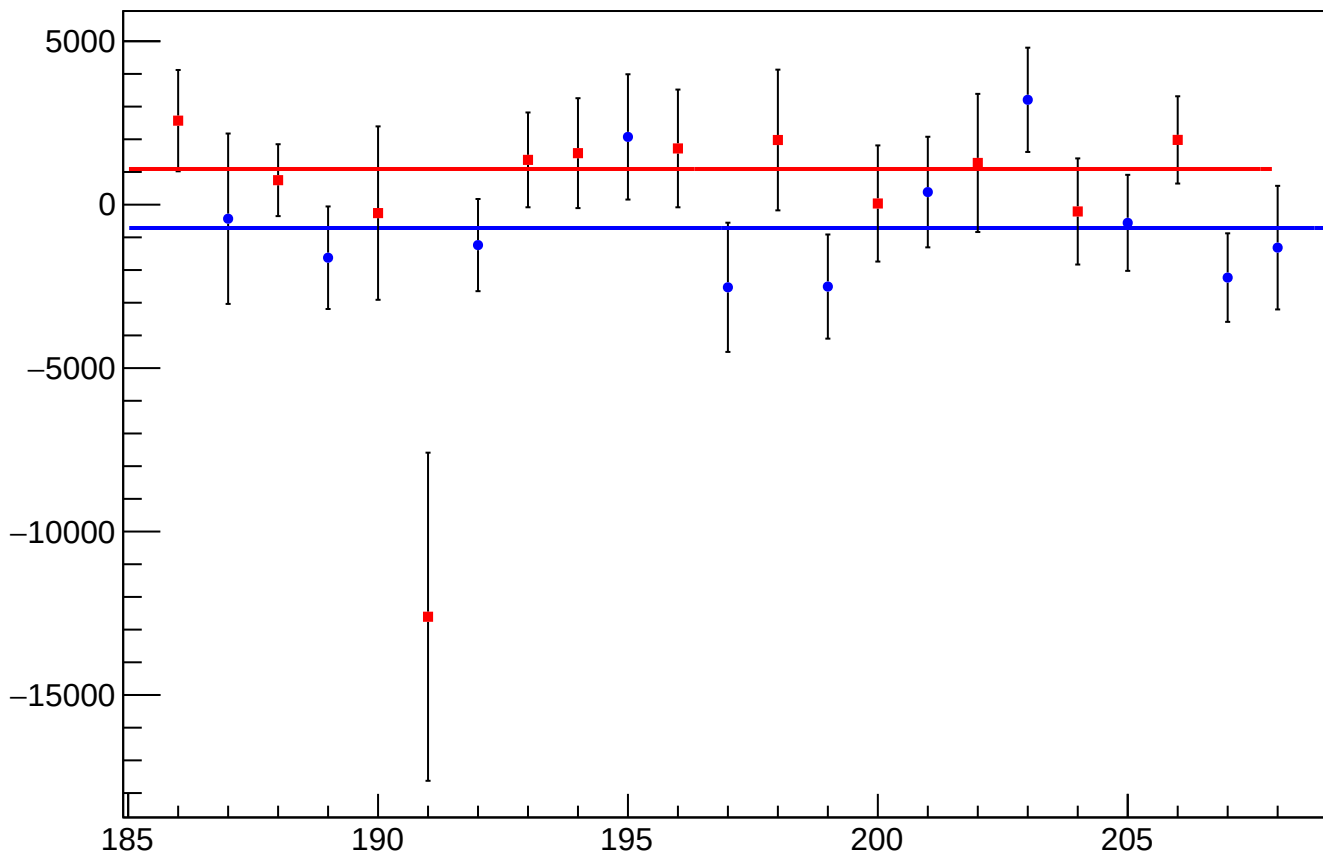
Right: 1366.745+/-0.182 χ^2/NDF : 1630038.7/58

In: 1354.737+/-0.171 χ^2/NDF : 834265.6/50

Out: 1368.064+/-0.170 χ^2/NDF : 1438140.8/55

All: 1361.460+/-0.121 χ^2/NDF : 2275455.8/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -713.758+/-499.388 χ^2/NDF : 12.5/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1091.282+/-484.504 χ^2/NDF : 10.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

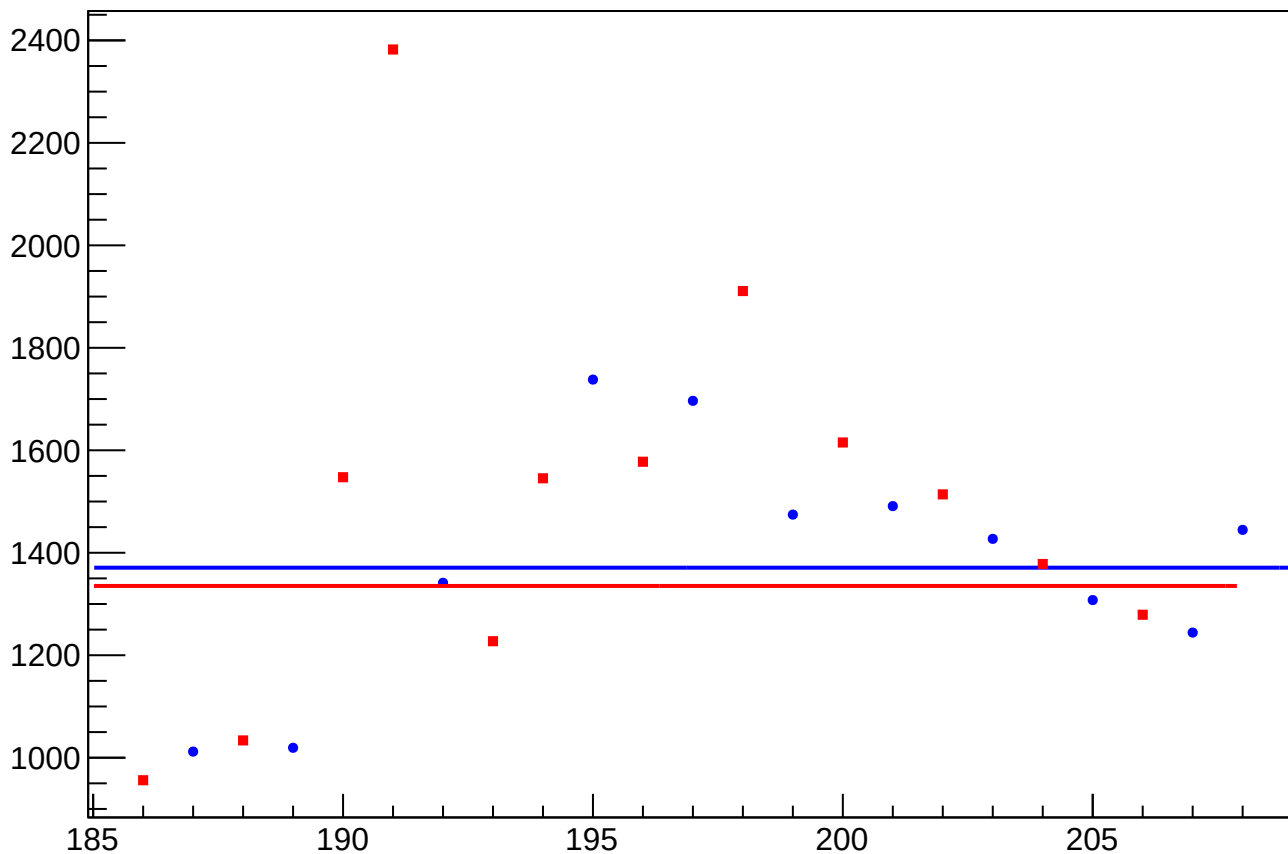
Right: 216.061+/-347.739 χ^2/NDF : 29.8/22

In: -713.758+/-499.388 χ^2/NDF : 12.5/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 216.061+/-347.739 χ^2/NDF : 29.8/22

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1370.886+/-0.353 χ^2/NDF : 312224.1/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1335.239+/-0.343 χ^2/NDF : 660359.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

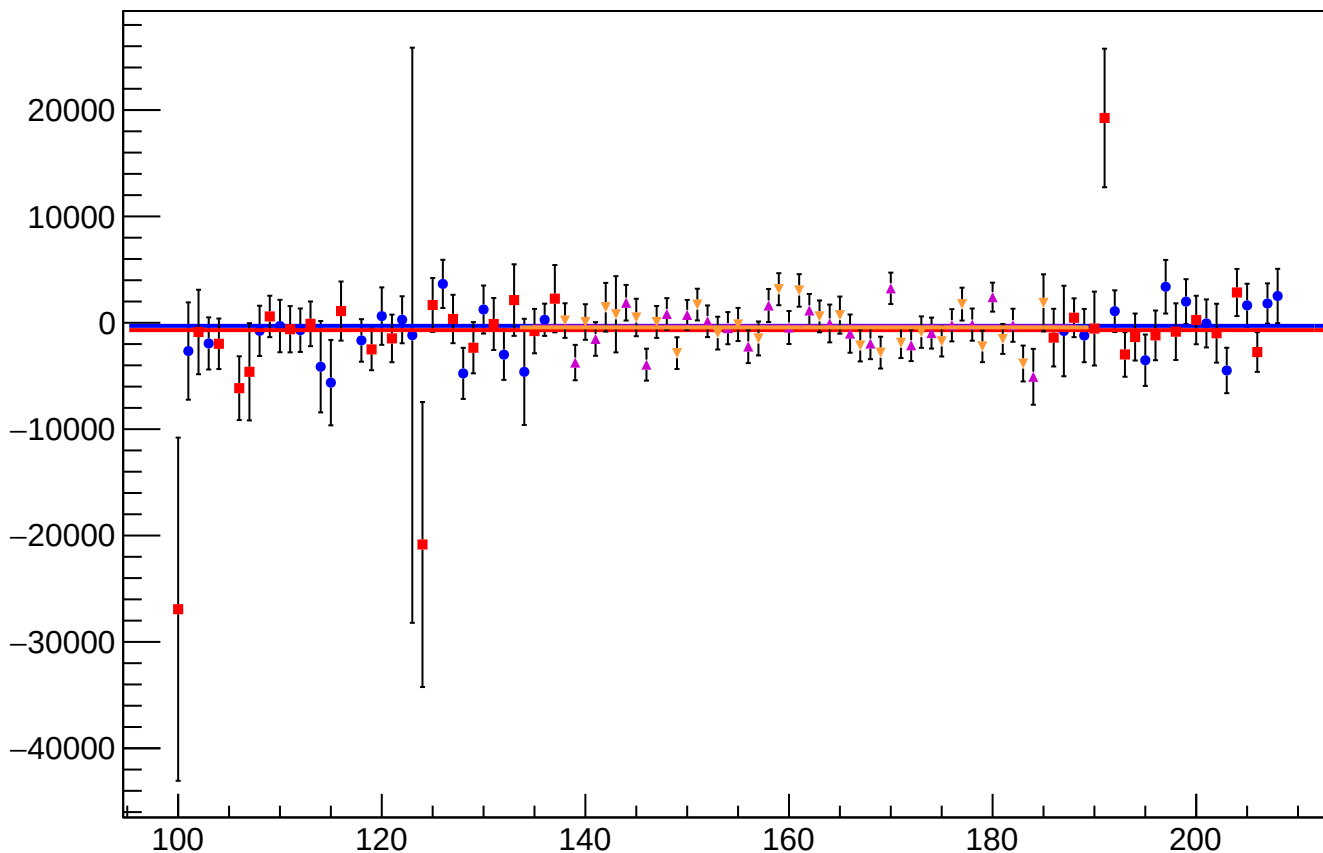
Right: 1352.523+/-0.246 χ^2/NDF : 977833.3/22

In: 1370.886+/-0.353 χ^2/NDF : 312224.1/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1352.523+/-0.246 χ^2/NDF : 977833.3/22

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -287.570+/-454.355 χ^2/NDF : 26.1/27

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -689.206+/-450.735 χ^2/NDF : 29.5/30

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

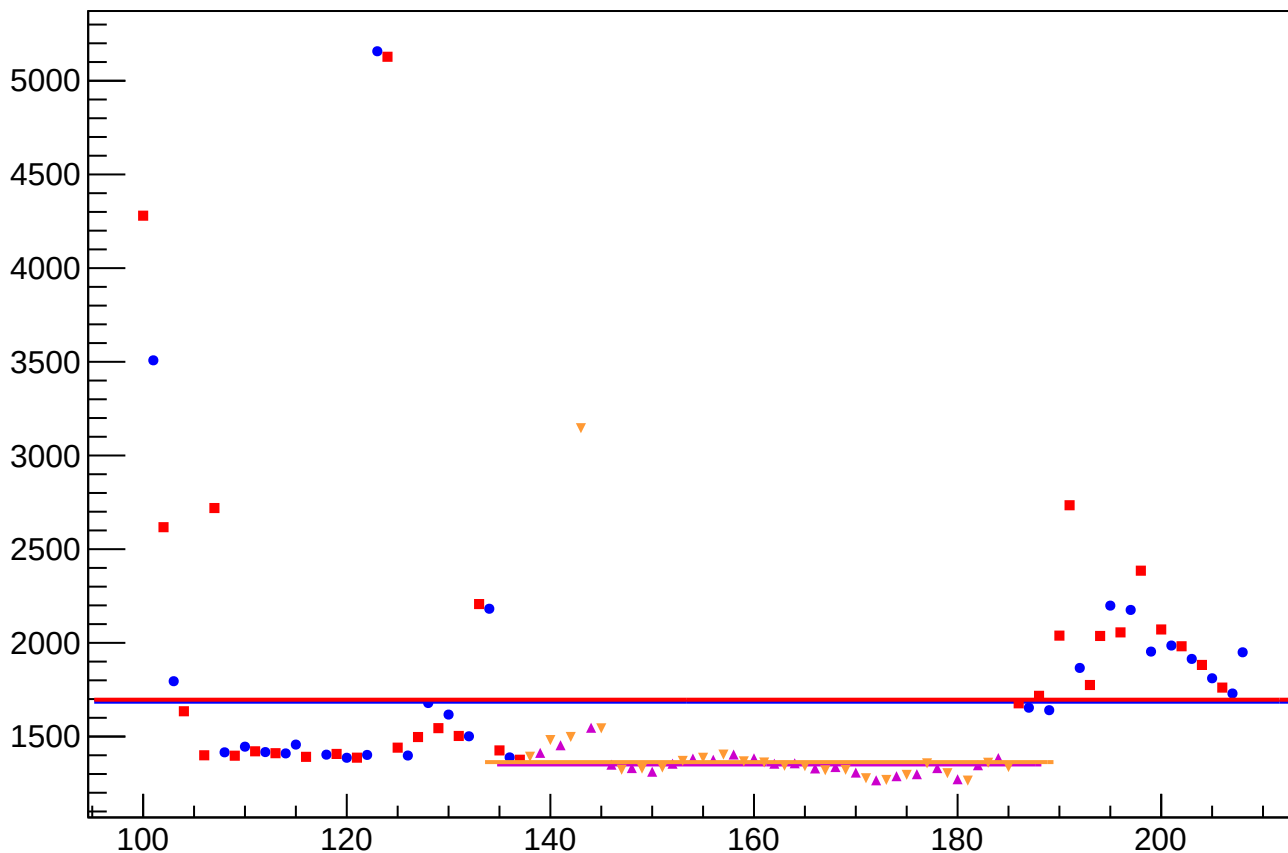
Right: -489.994+/-319.990 χ^2/NDF : 56.0/58

In: -324.775+/-263.996 χ^2/NDF :59.9/50

Out: -518.199+/-261.221 χ^2/NDF :62.8/55

All: -422.509+/-185.685 χ^2/NDF : 122.9/106

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1685.948+/-0.321 χ^2/NDF : 993018.7/27

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1696.634+/-0.319 χ^2/NDF : 1183462.6/30

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

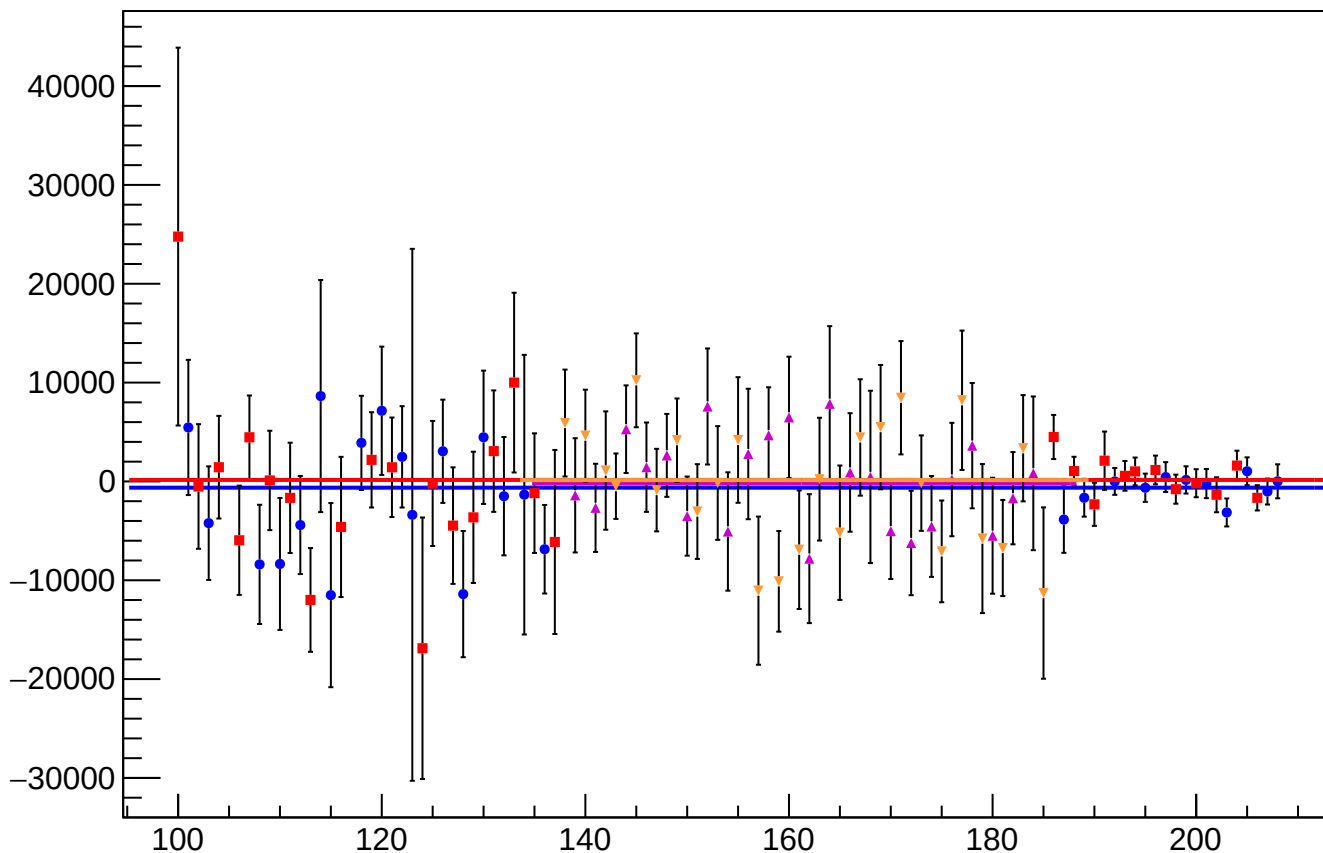
Right: 1691.334+/-0.226 χ^2/NDF : 2177038.9/58

In: 1464.019+/-0.187 χ^2/NDF : 1780525.1/50

Out: 1475.432+/-0.185 χ^2/NDF : 2483994.0/55

All: 1469.786+/-0.131 χ^2/NDF : 4266407.6/10

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.957 ± 439.534 $\chi^2/\text{NDF}: 22.4/27$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 151.179 ± 435.109 $\chi^2/\text{NDF}: 25.6/30$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

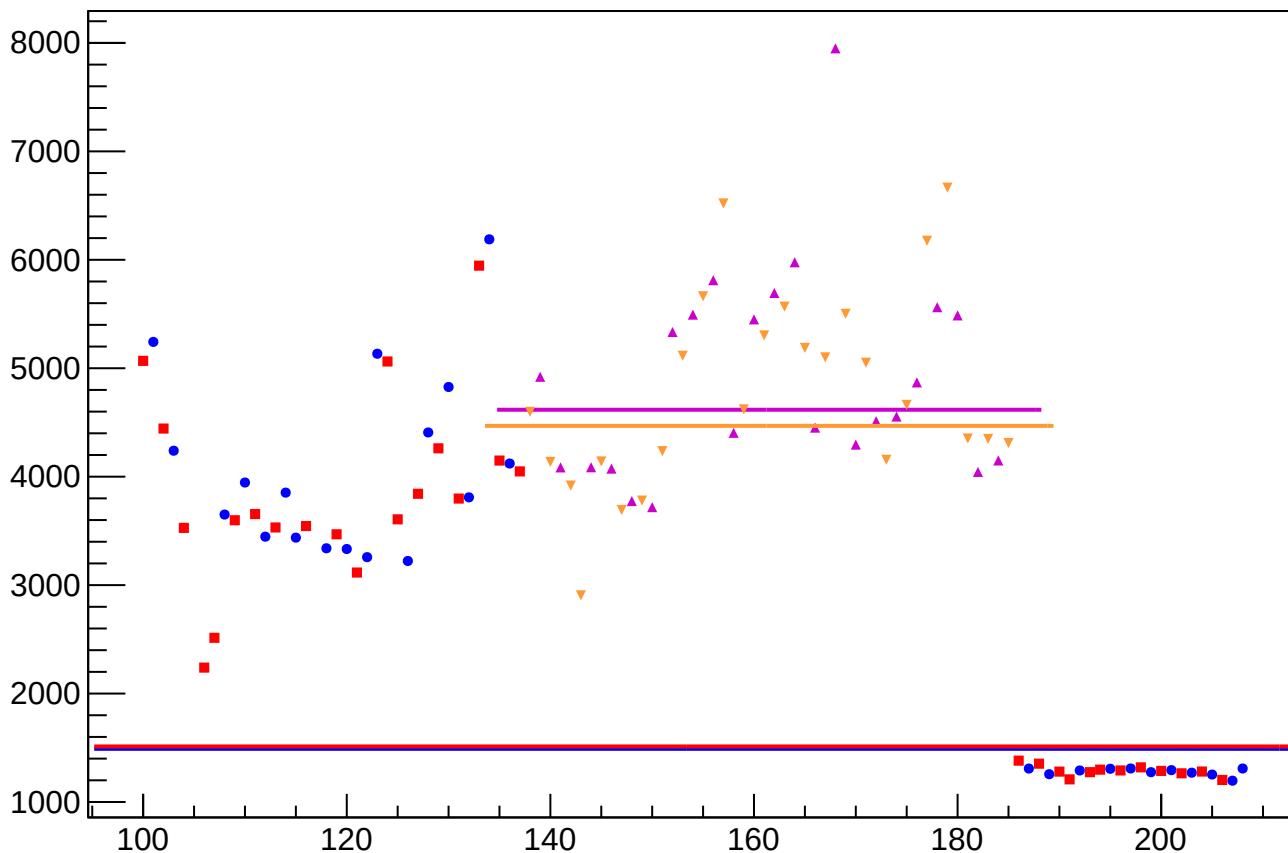
Right: -236.426 ± 309.221 $\chi^2/\text{NDF}: 49.6/58$

In: -574.645 ± 409.325 $\chi^2/\text{NDF}: 37.3/50$

Out: 148.459 ± 402.819 $\chi^2/\text{NDF}: 53.7/55$

All: -207.300 ± 287.109 $\chi^2/\text{NDF}: 92.6/106$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1490.165+/-0.311 χ^2/NDF : 5595270.7/27

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 1512.238+/-0.307 χ^2/NDF : 5397317.8/30

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

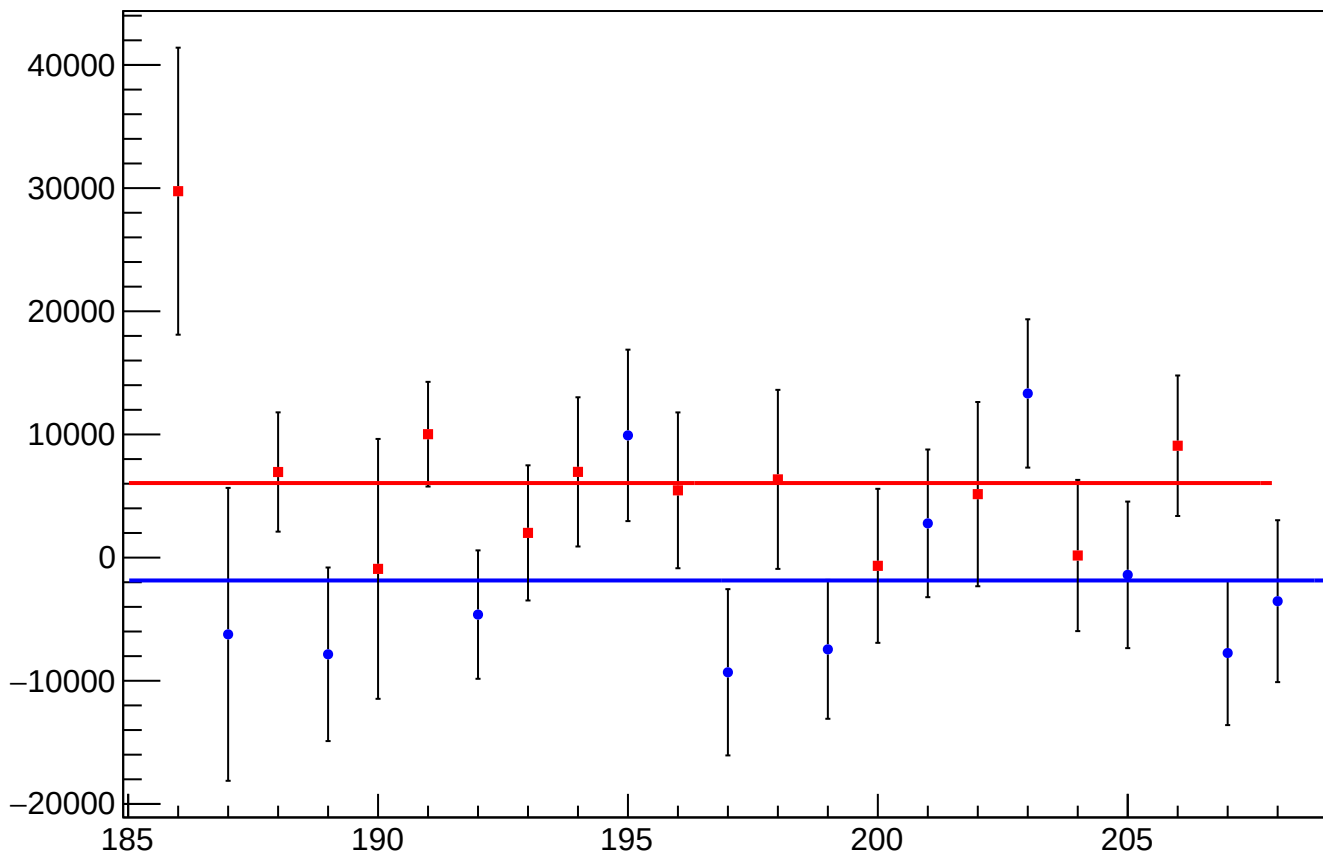
Right: 1501.323+/-0.219 χ^2/NDF : 10995138.4/58

In: 1905.248+/-0.289 χ^2/NDF :20032634.1/50

Out: 1934.069+/-0.285 χ^2/NDF :19976211.5/55

All: 1919.901+/-0.203 χ^2/NDF : 40013886.9/1

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1855.747+/-1910.209 χ^2/NDF : 14.3/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 6053.642+/-1769.234 χ^2/NDF : 8.4/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

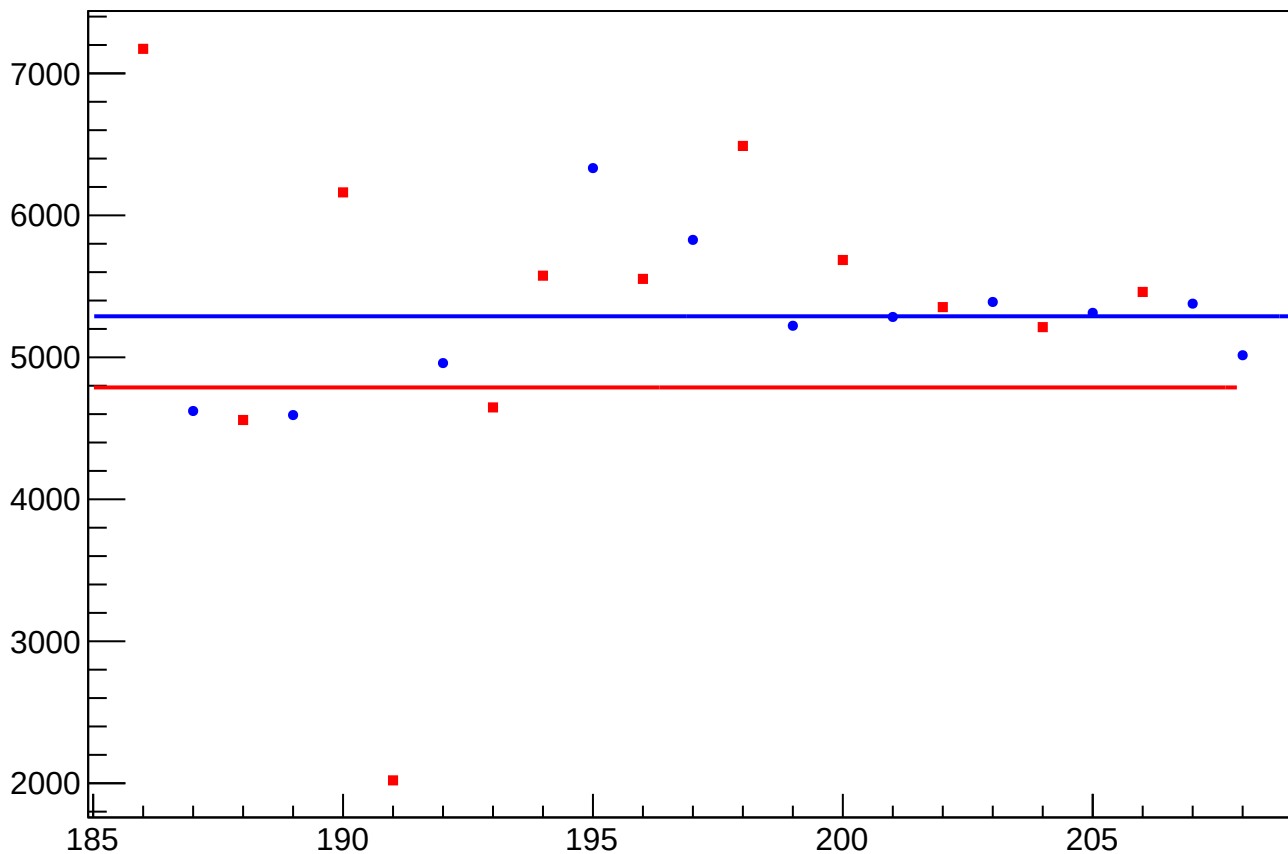
Right: 2401.546+/-1298.018 χ^2/NDF : 31.9/22

In: -1855.747+/-1910.209 χ^2/NDF : 14.3/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 2401.546+/-1298.018 χ^2/NDF : 31.9/22

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5289.110+/-1.351 χ^2/NDF : 96305.5/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4787.976+/-1.251 χ^2/NDF : 1234325.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

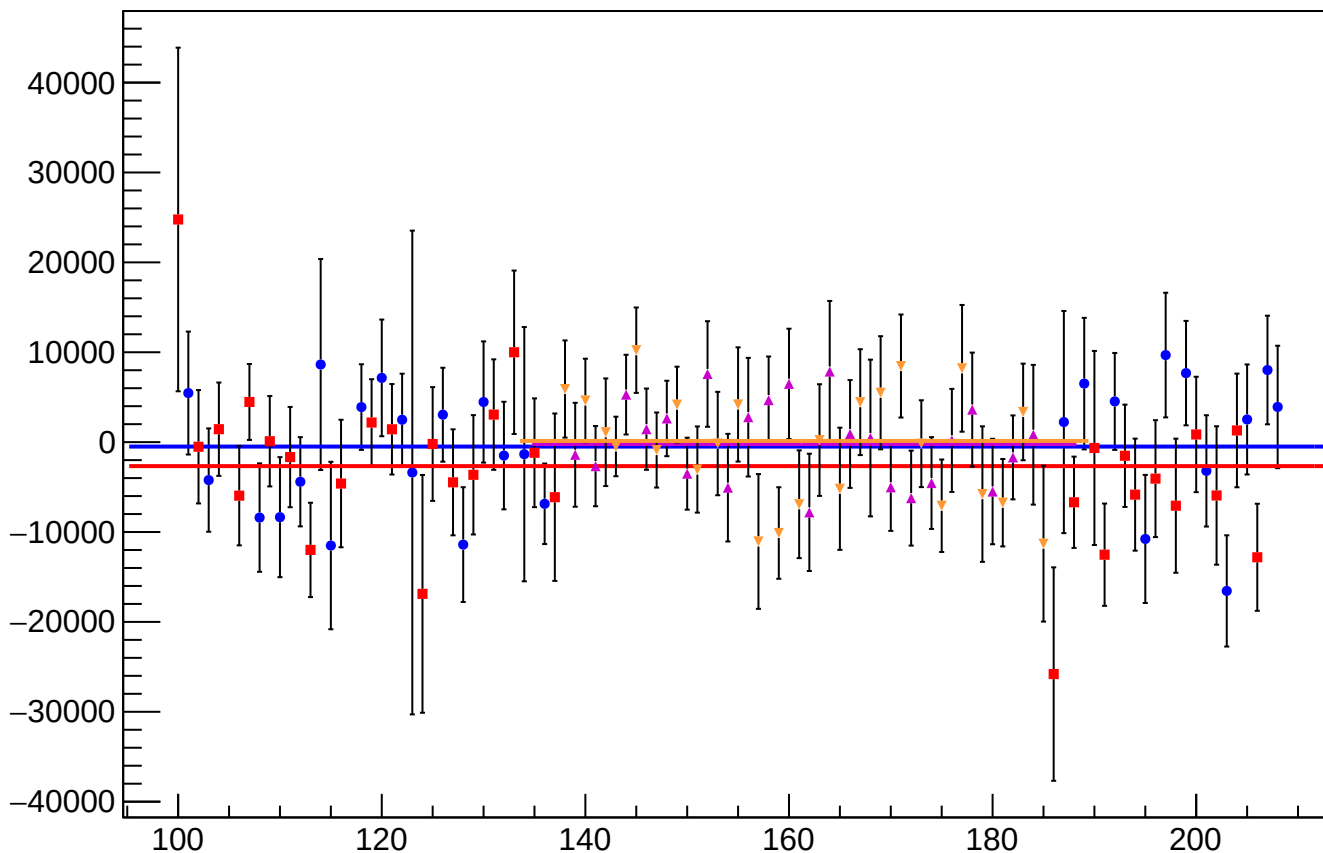
Right: 5019.370+/-0.918 χ^2/NDF : 1404722.1/22

In: 5289.110+/-1.351 χ^2/NDF : 96305.5/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5019.370+/-0.918 χ^2/NDF : 1404722.1/22

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -494.150+/-1202.317 χ^2/NDF : 33.1/27

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: -2668.379+/-1116.899 χ^2/NDF : 27.6/30

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

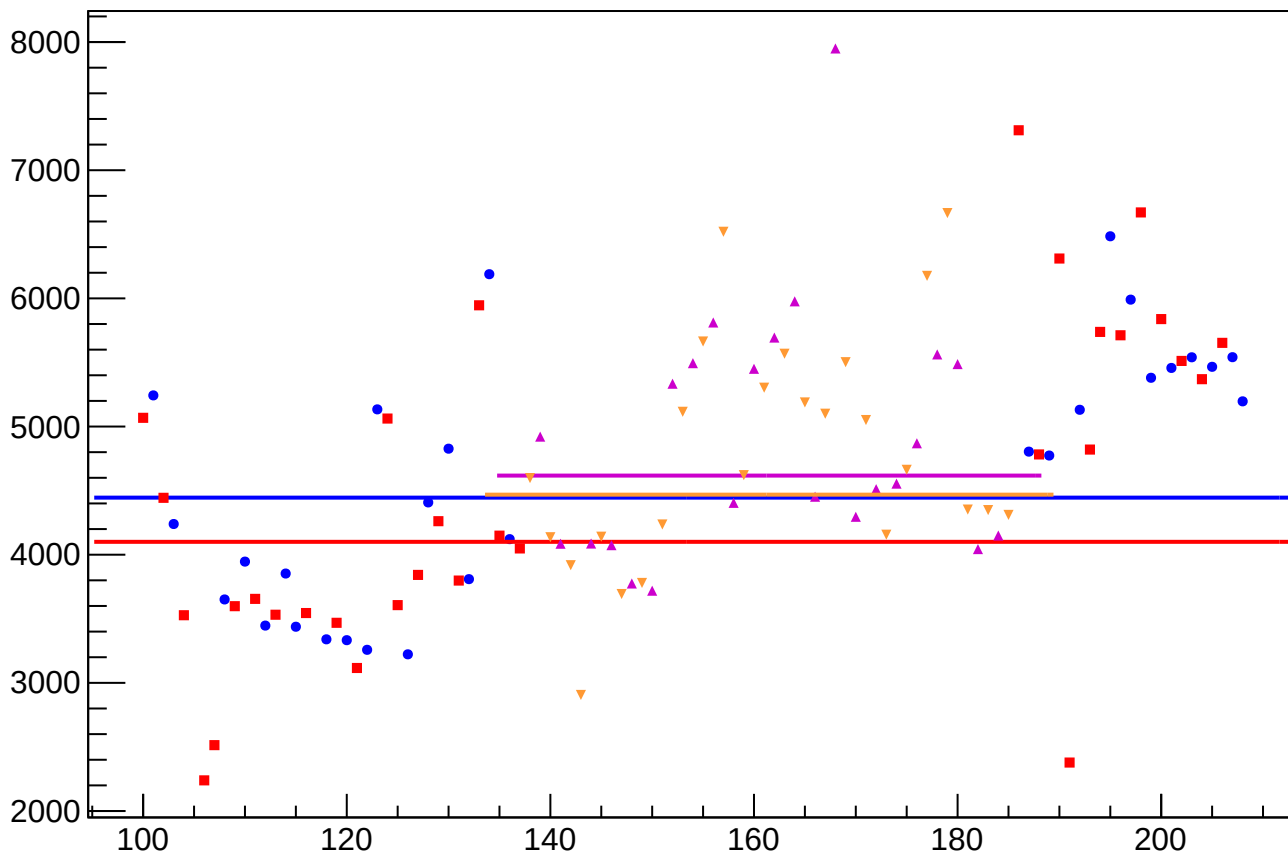
Right: -1661.235+/-818.299 χ^2/NDF : 62.5/58

In: -337.215+/-820.885 χ^2/NDF : 47.9/50

Out: -1202.255+/-770.969 χ^2/NDF : 59.0/55

All: -796.833+/-561.976 χ^2/NDF : 107.5/106

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4445.329 $\pm$ 0.850 χ^2 /NDF: 1254603.9/27

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 4100.458 $\pm$ 0.785 χ^2 /NDF: 2315879.5/30

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF: 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

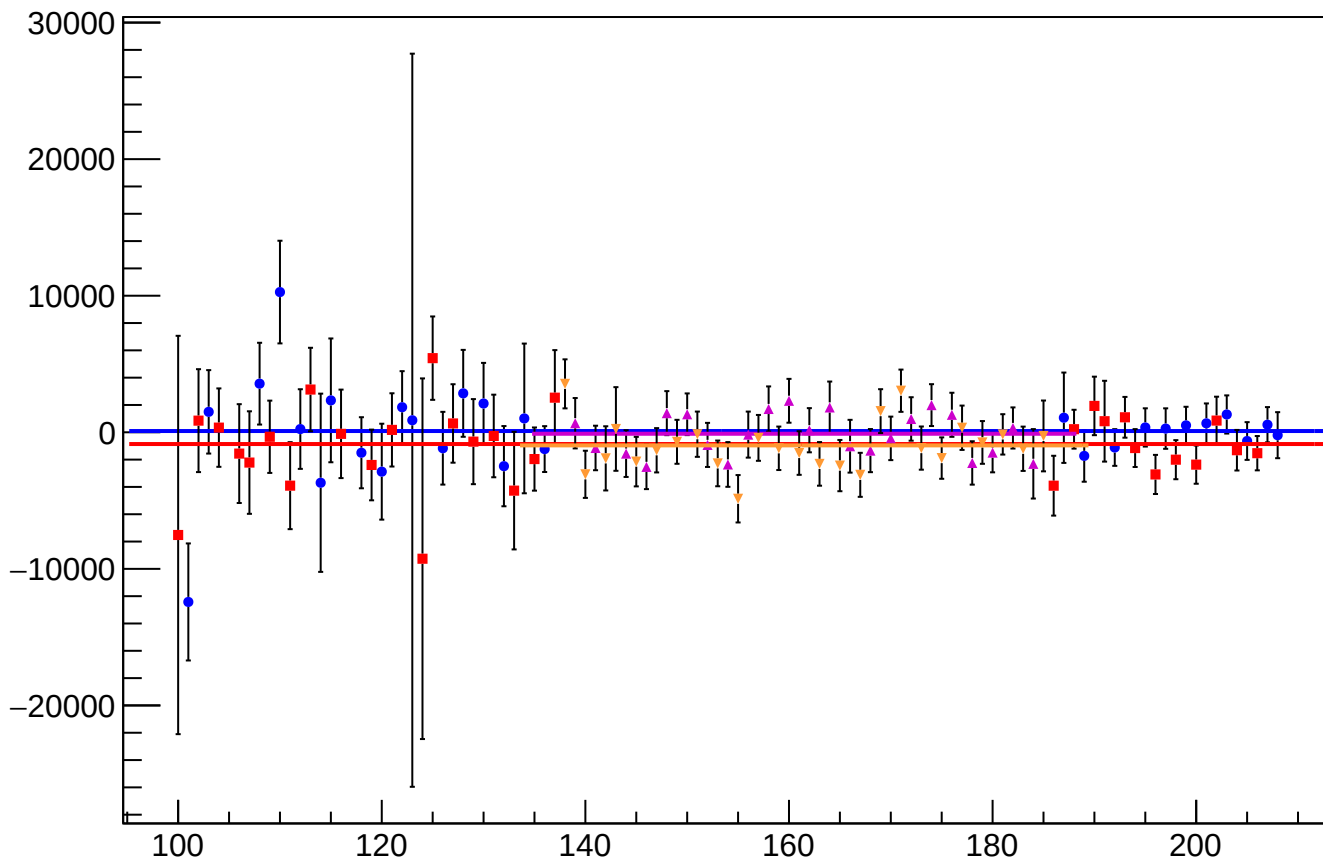
Right: 4259.179 $\pm$ 0.577 χ^2 /NDF: 3659306.7/58

In: 4537.131 $\pm$ 0.580 χ^2 /NDF: 2276045.8/50

Out: 4292.038 $\pm$ 0.544 χ^2 /NDF: 3810901.9/55

All: 4406.556 $\pm$ 0.397 χ^2 /NDF: 6181933.9/100

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 92.255 ± 387.645 χ^2/NDF : 25.7/27

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -859.862 ± 384.909 χ^2/NDF : 22.6/30

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

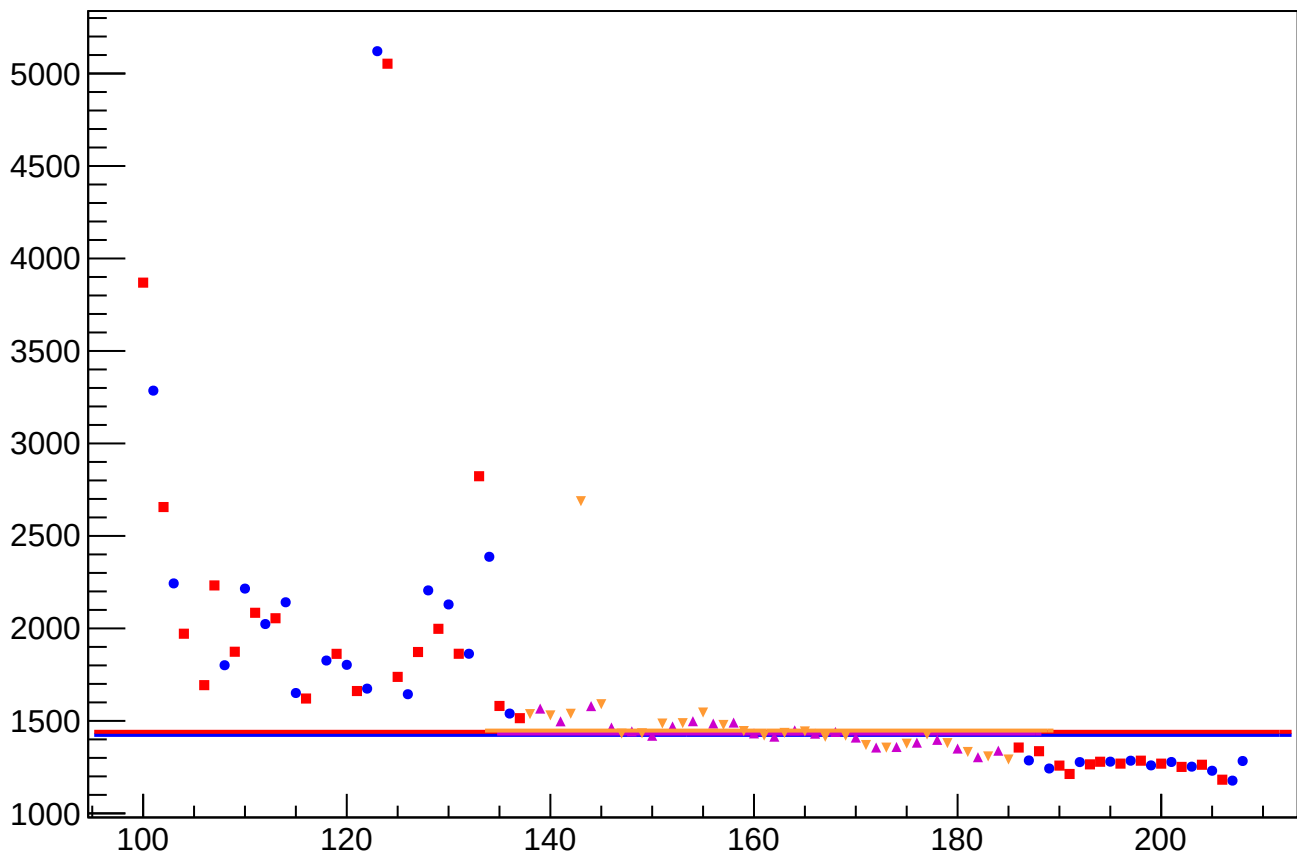
Right: -387.175 ± 273.134 χ^2/NDF : 51.3/58

In: -19.600 ± 257.156 χ^2/NDF : 45.3/50

Out: -915.290 ± 254.610 χ^2/NDF : 51.2/55

All: -471.902 ± 180.930 χ^2/NDF : 102.6/106

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1424.391+/-0.274 χ^2/NDF : 1535756.0/27

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1441.066+/-0.272 χ^2/NDF : 1565215.5/30

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

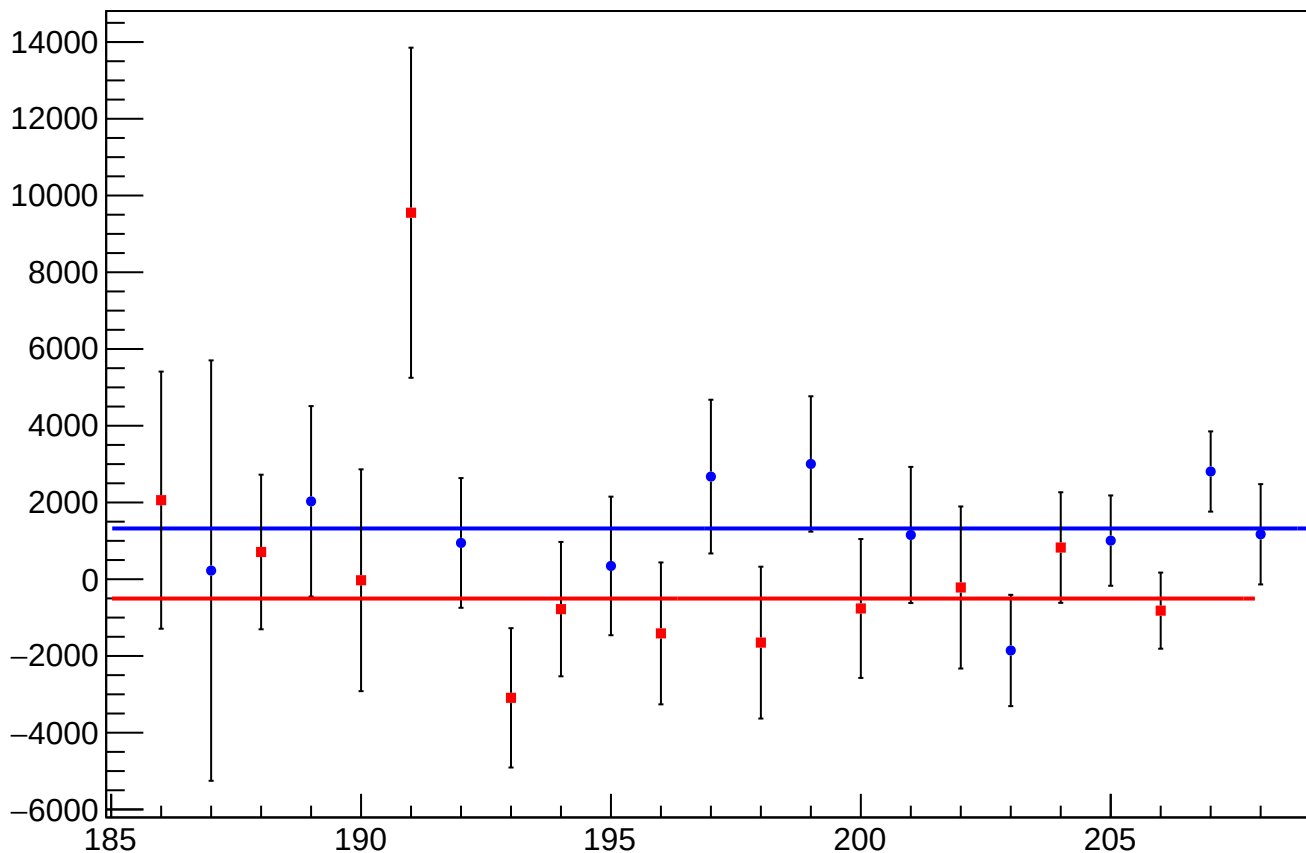
Right: 1432.788+/-0.193 χ^2/NDF : 3102835.1/58

In: 1428.347+/-0.182 χ^2/NDF : 1611258.4/50

Out: 1444.715+/-0.180 χ^2/NDF : 1984789.8/55

All: 1436.613+/-0.128 χ^2/NDF : 3600140.3/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1322.640+/-474.698 χ^2/NDF : 8.7/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -503.770+/-518.877 χ^2/NDF : 10.1/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

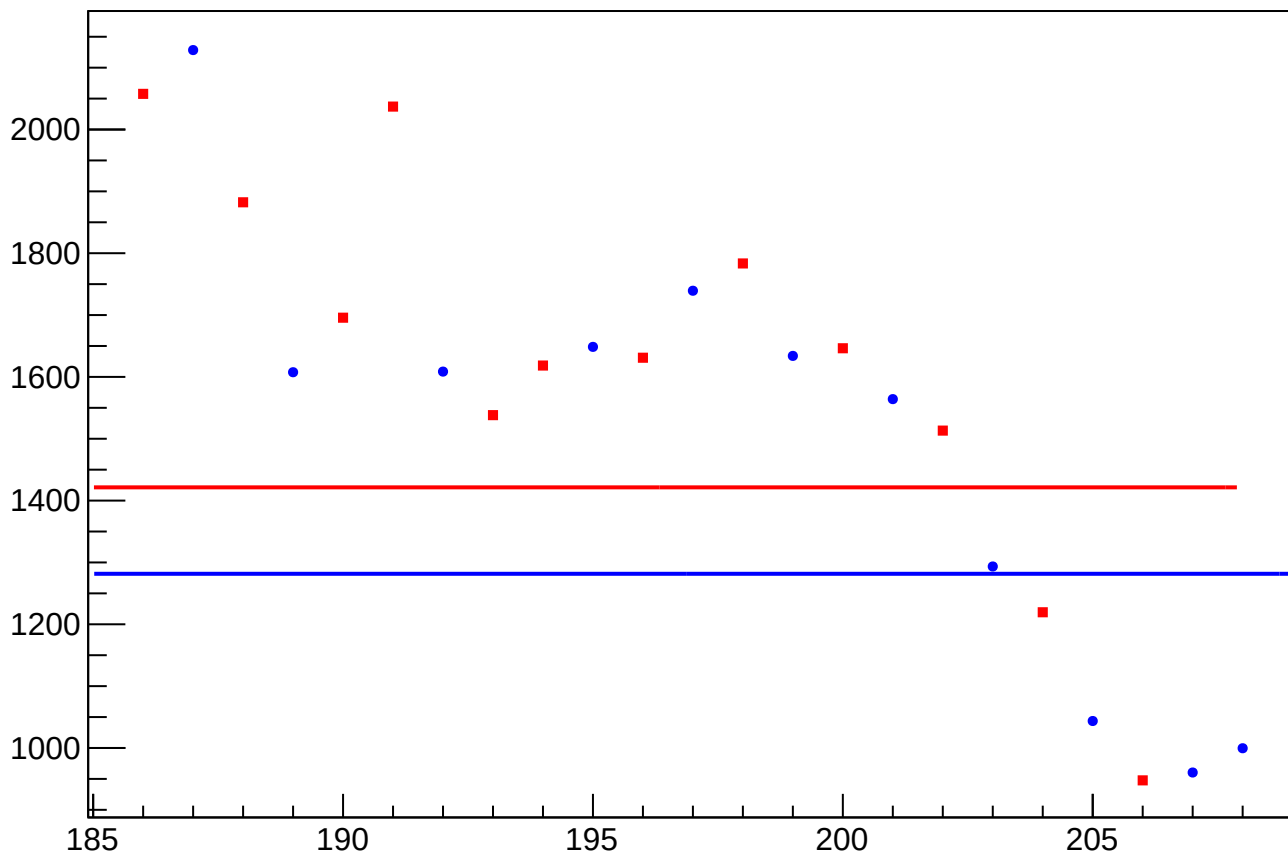
Right: 490.485+/-350.241 χ^2/NDF : 25.6/22

In: 1322.640+/-474.698 χ^2/NDF : 8.7/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 490.485+/-350.241 χ^2/NDF : 25.6/22

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1281.651+/-0.336 χ^2/NDF : 838452.7/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1421.407+/-0.367 χ^2/NDF : 892334.8/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

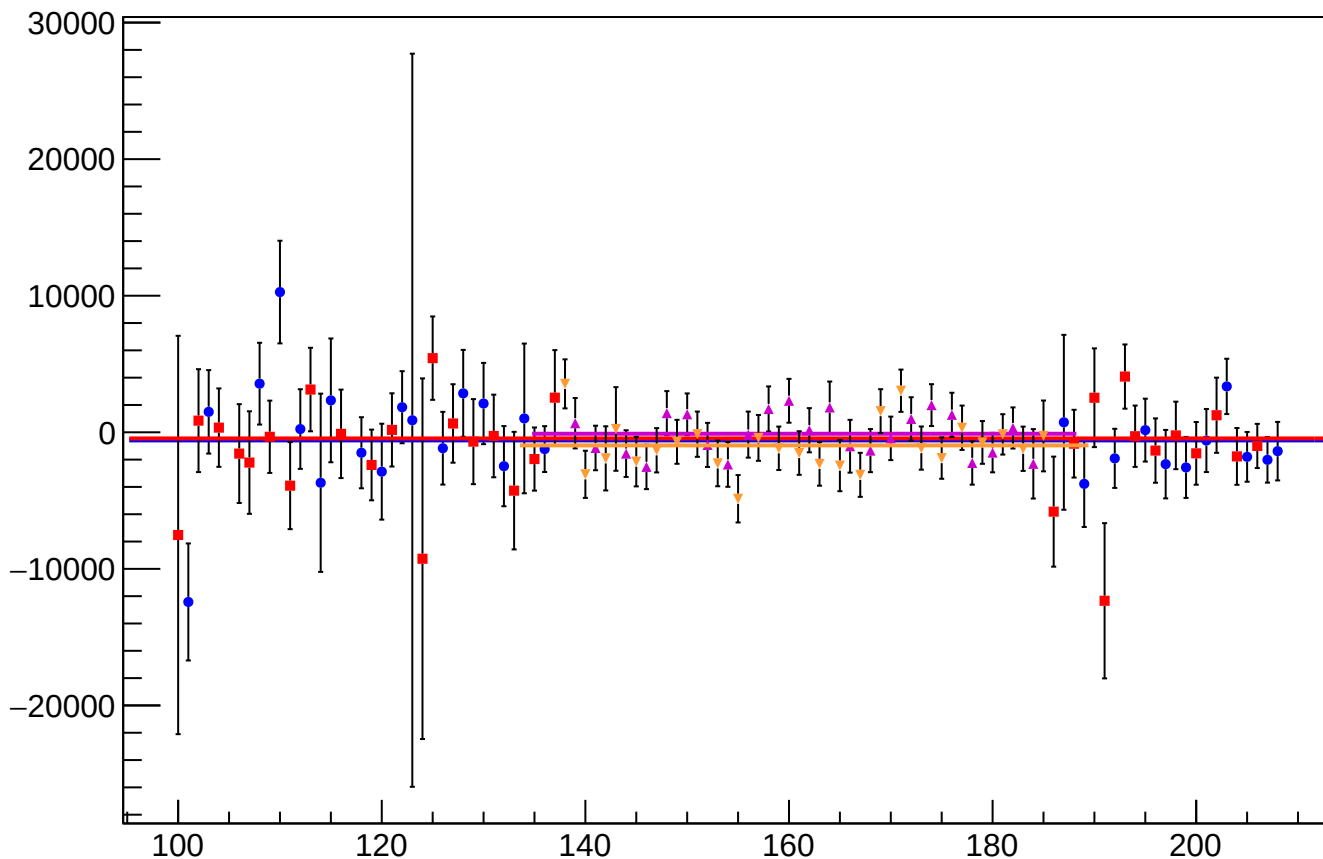
Right: 1345.327+/-0.248 χ^2/NDF : 1809772.0/22

In: 1281.651+/-0.336 χ^2/NDF : 838452.7/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1345.327+/-0.248 χ^2/NDF : 1809772.0/22

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -592.860+/-502.599 χ^2/NDF : 31.1/27

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -450.852+/-510.631 χ^2/NDF : 22.0/30

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

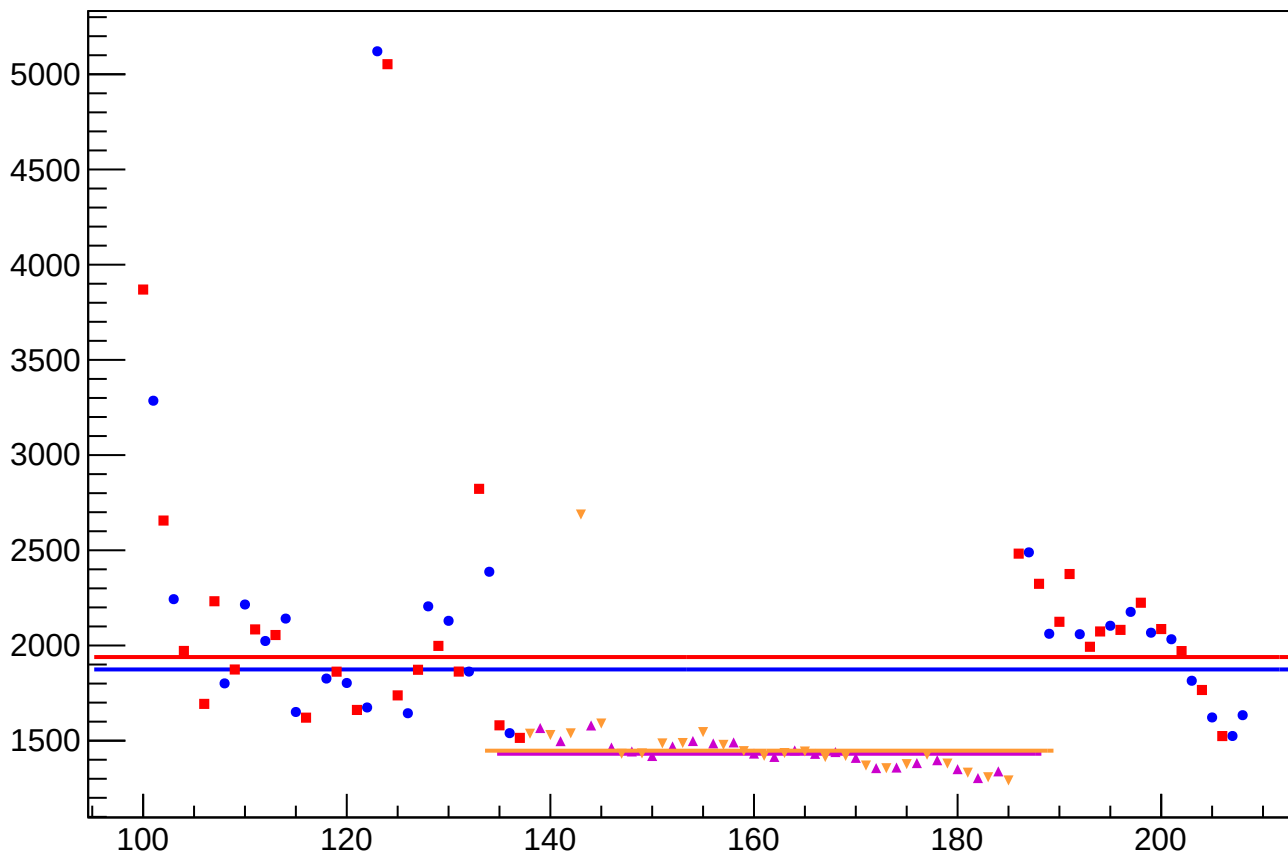
Right: -522.981+/-358.197 χ^2/NDF : 53.1/58

In: -262.139+/-283.685 χ^2/NDF : 51.2/50

Out: -802.826+/-282.714 χ^2/NDF : 51.2/55

All: -533.409+/-200.252 χ^2/NDF : 104.2/106

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1874.161 $\pm$ 0.355 χ^2 /NDF: 733848.9/27

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF:419254.7/24

Right Out: 1939.291 $\pm$ 0.361 χ^2 /NDF: 762465.5/30

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

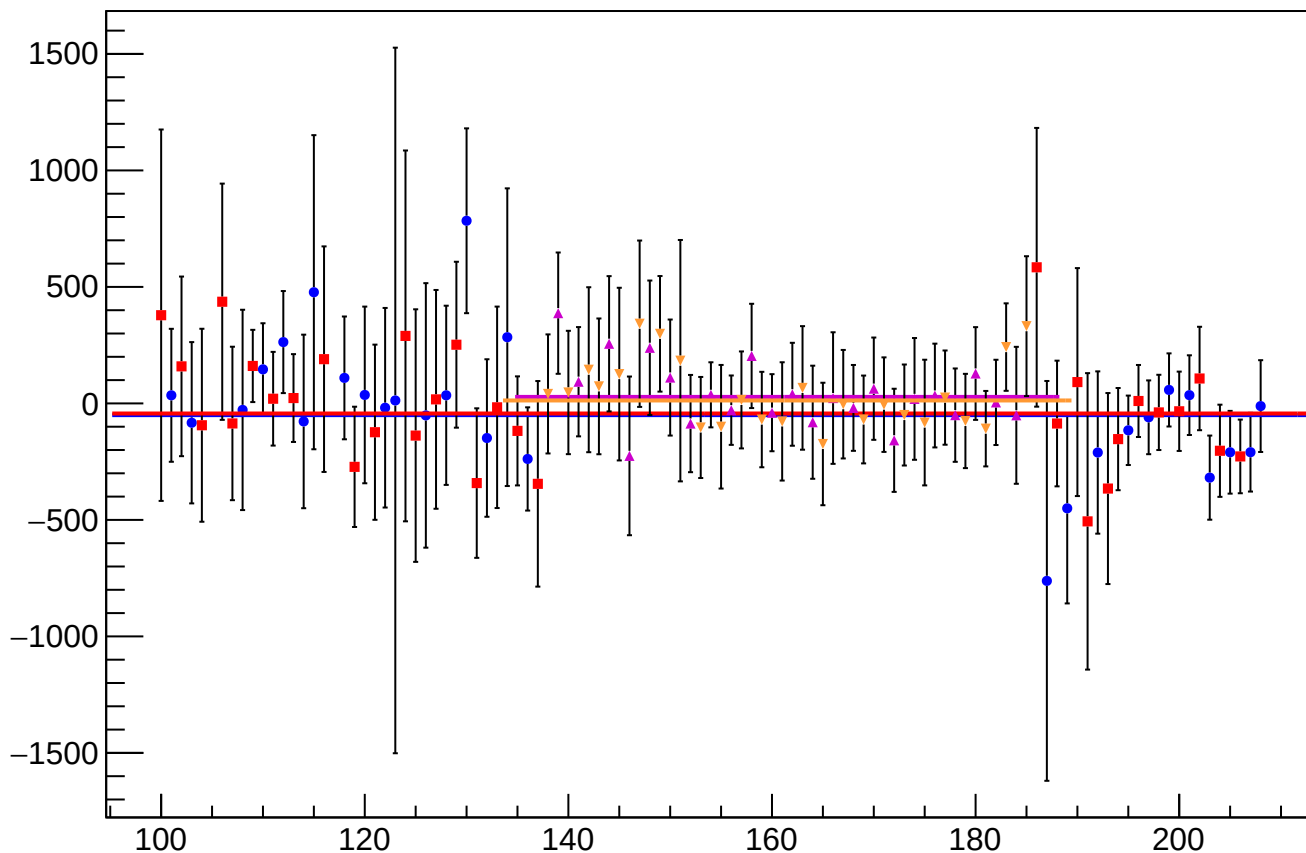
Right: 1906.210 $\pm$ 0.253 χ^2 /NDF: 1512840.9/58

In: 1572.497 $\pm$ 0.201 χ^2 /NDF:1866351.1/50

Out: 1598.291 $\pm$ 0.200 χ^2 /NDF:2467926.6/55

All: 1585.438 $\pm$ 0.142 χ^2 /NDF: 4342573.2/10

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -50.328 ± 46.860 $\chi^2/\text{NDF}: 16.5/27$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -43.358 ± 46.908 $\chi^2/\text{NDF}: 12.0/30$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

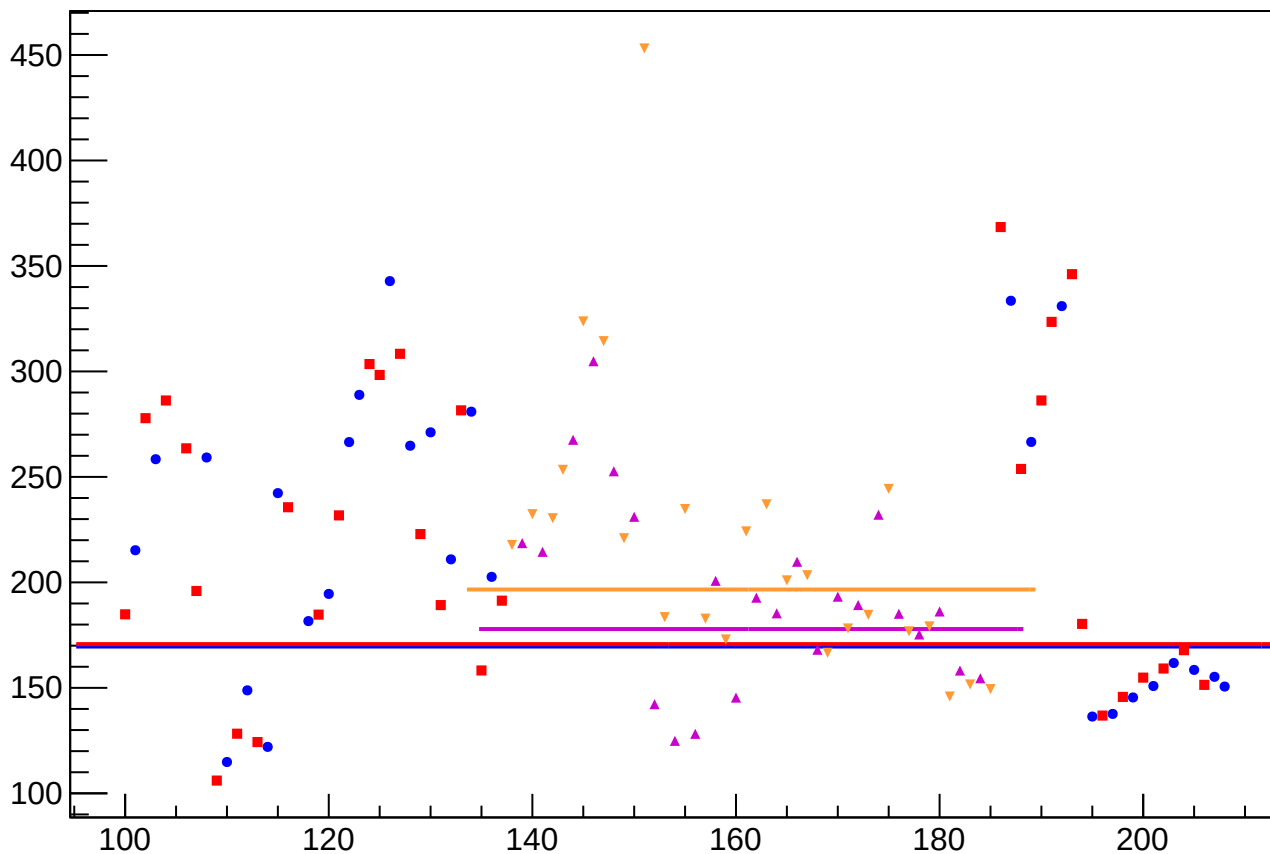
Right: -46.847 ± 33.152 $\chi^2/\text{NDF}: 28.5/58$

In: -9.204 ± 32.277 $\chi^2/\text{NDF}: 24.5/50$

Out: -15.712 ± 33.372 $\chi^2/\text{NDF}: 20.4/55$

All: -12.350 ± 23.201 $\chi^2/\text{NDF}: 44.9/106$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.585 $\pm$ 0.033 χ^2 /NDF: 2111119.2/27

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 170.734 $\pm$ 0.033 χ^2 /NDF: 2773915.4/30

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

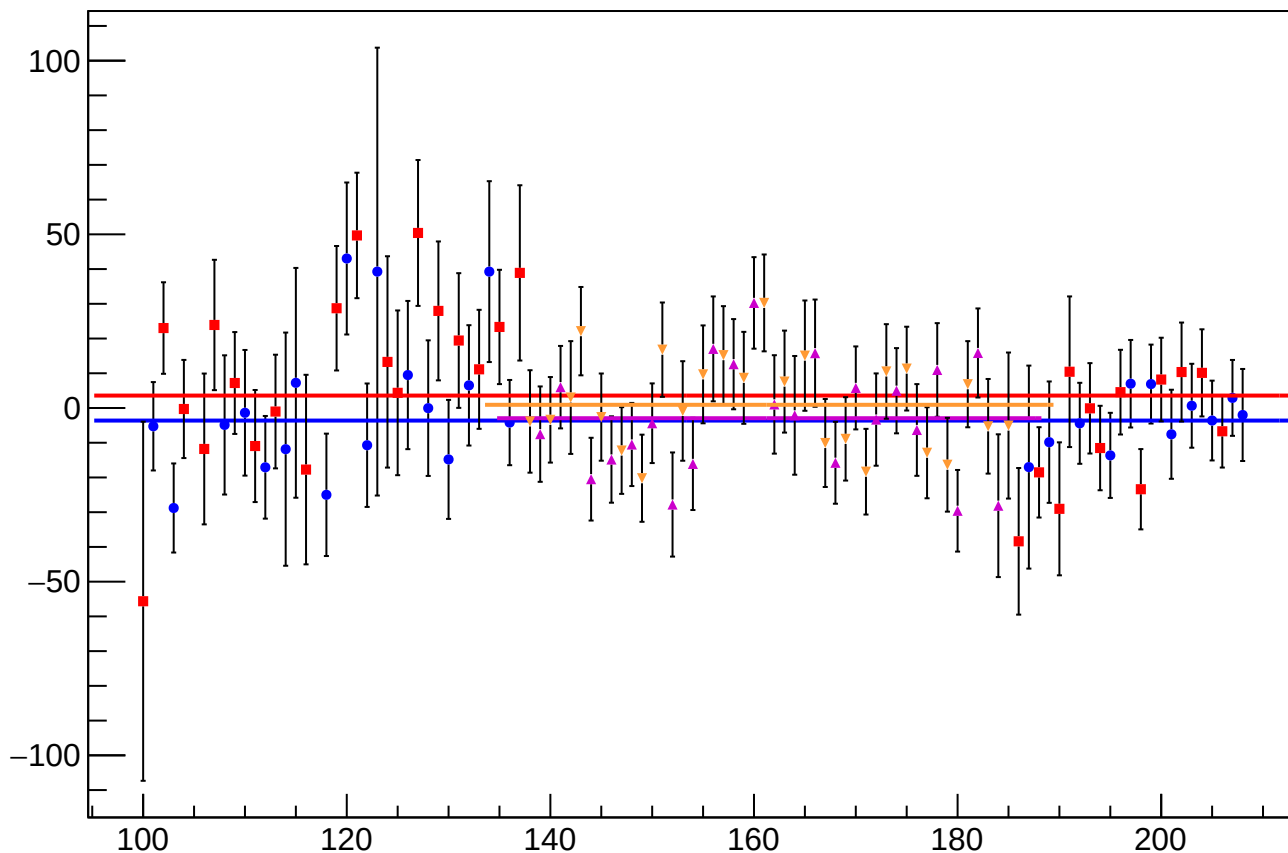
Right: 170.159 $\pm$ 0.023 χ^2 /NDF: 4885635.2/58

In: 173.943 $\pm$ 0.023 χ^2 /NDF:3788120.3/50

Out: 183.519 $\pm$ 0.024 χ^2 /NDF:4868207.7/55

All: 178.572 $\pm$ 0.016 χ^2 /NDF: 8741398.9/106

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.619 ± 2.891 χ^2/NDF : 18.6/27

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 3.579 ± 2.862 χ^2/NDF : 44.6/30

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

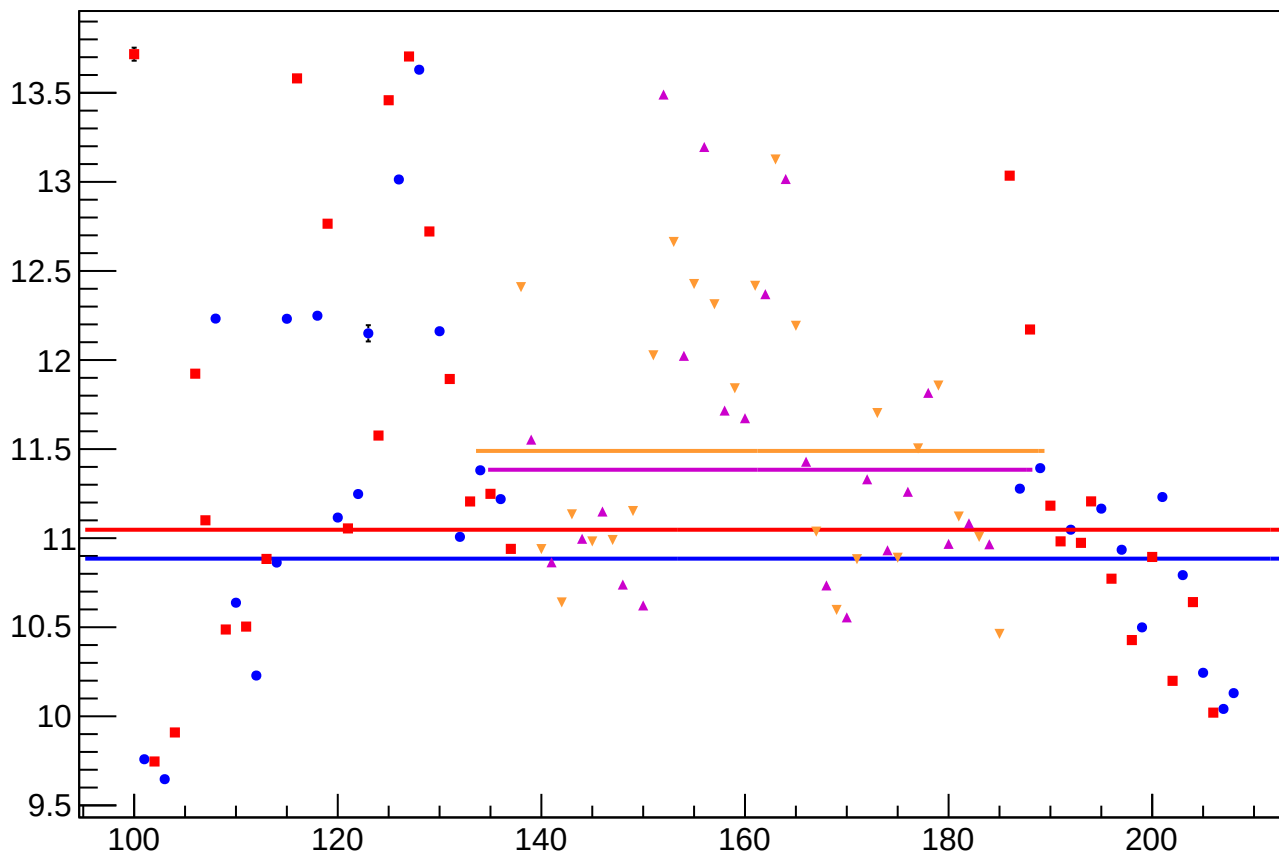
Right: 0.015 ± 2.034 χ^2/NDF : 66.3/58

In: -3.263 ± 1.990 χ^2/NDF : 49.6/50

Out: 2.170 ± 1.963 χ^2/NDF : 69.1/55

All: -0.508 ± 1.397 χ^2/NDF : 122.5/106

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.885 ± 0.002 $\chi^2/\text{NDF}: 169681.9/27$

Left Out: 11.490 ± 0.002 $\chi^2/\text{NDF}: 132399.1/24$

Right Out: 11.047 ± 0.002 $\chi^2/\text{NDF}: 222500.8/30$

Left In: 11.384 ± 0.002 $\chi^2/\text{NDF}: 149799.6/22$

Left: 11.438 ± 0.001 $\chi^2/\text{NDF}: 283707.5/47$

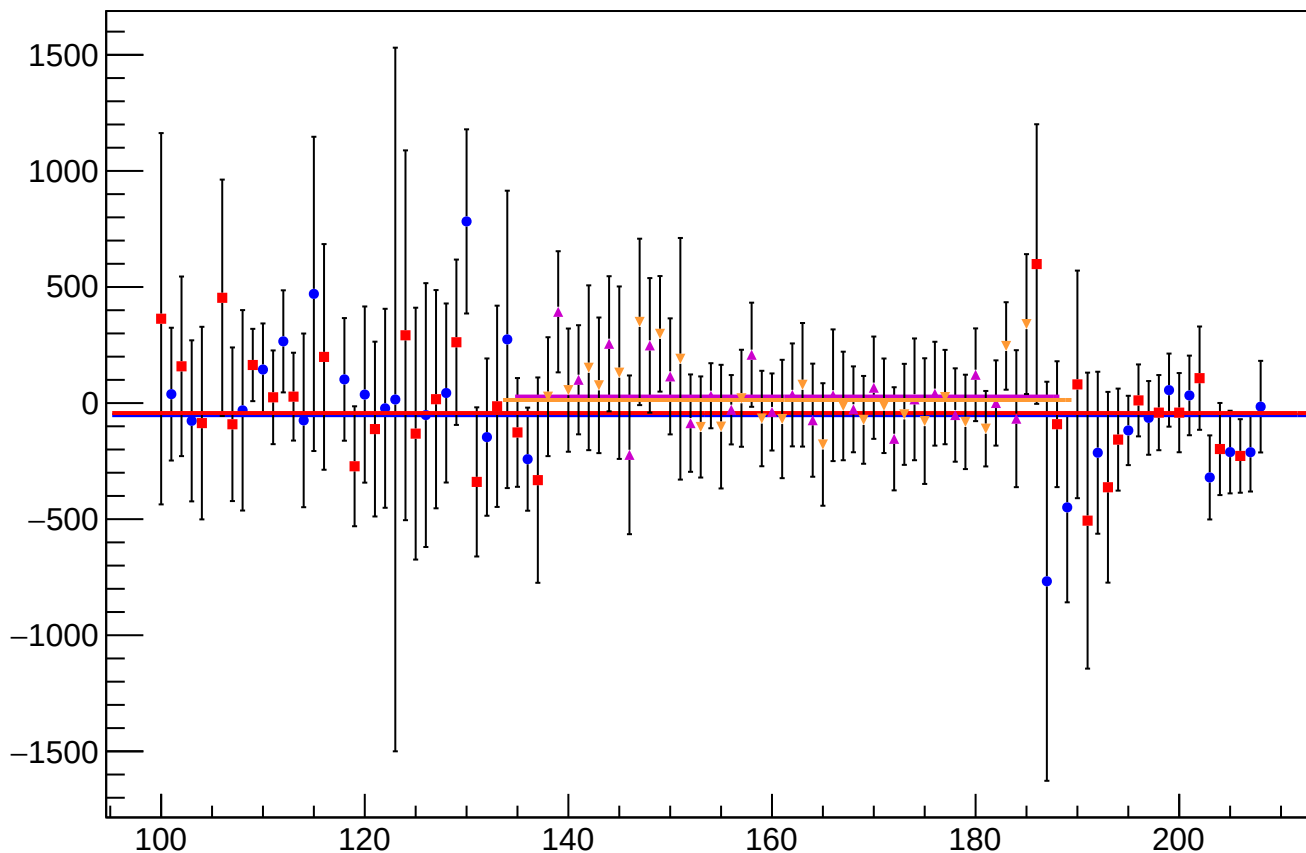
Right: 10.967 ± 0.001 $\chi^2/\text{NDF}: 395364.9/58$

In: 11.147 ± 0.001 $\chi^2/\text{NDF}: 350832.3/50$

Out: 11.282 ± 0.001 $\chi^2/\text{NDF}: 380225.8/55$

All: 11.216 ± 0.001 $\chi^2/\text{NDF}: 735674.1/106$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -52.068 ± 46.978 $\chi^2/\text{NDF}: 16.4/27$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -42.881 ± 47.035 $\chi^2/\text{NDF}: 12.2/30$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

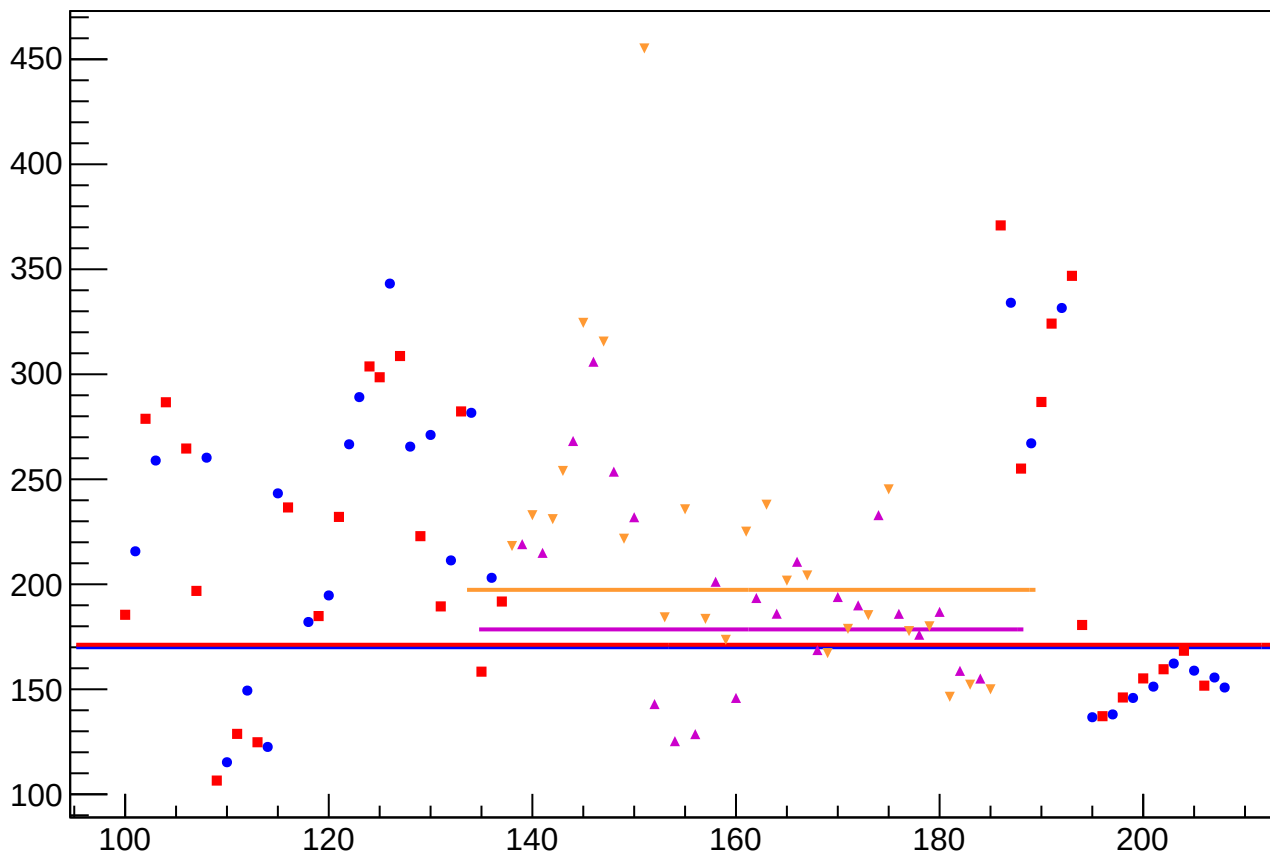
Right: -47.480 ± 33.239 $\chi^2/\text{NDF}: 28.6/58$

In: -10.003 ± 32.376 $\chi^2/\text{NDF}: 24.6/50$

Out: -15.152 ± 33.478 $\chi^2/\text{NDF}: 20.7/55$

All: -12.491 ± 23.273 $\chi^2/\text{NDF}: 45.3/106$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.026 $\pm$ 0.033 χ^2 /NDF: 2106340.2/27

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 171.207 $\pm$ 0.033 χ^2 /NDF: 2770280.3/30

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

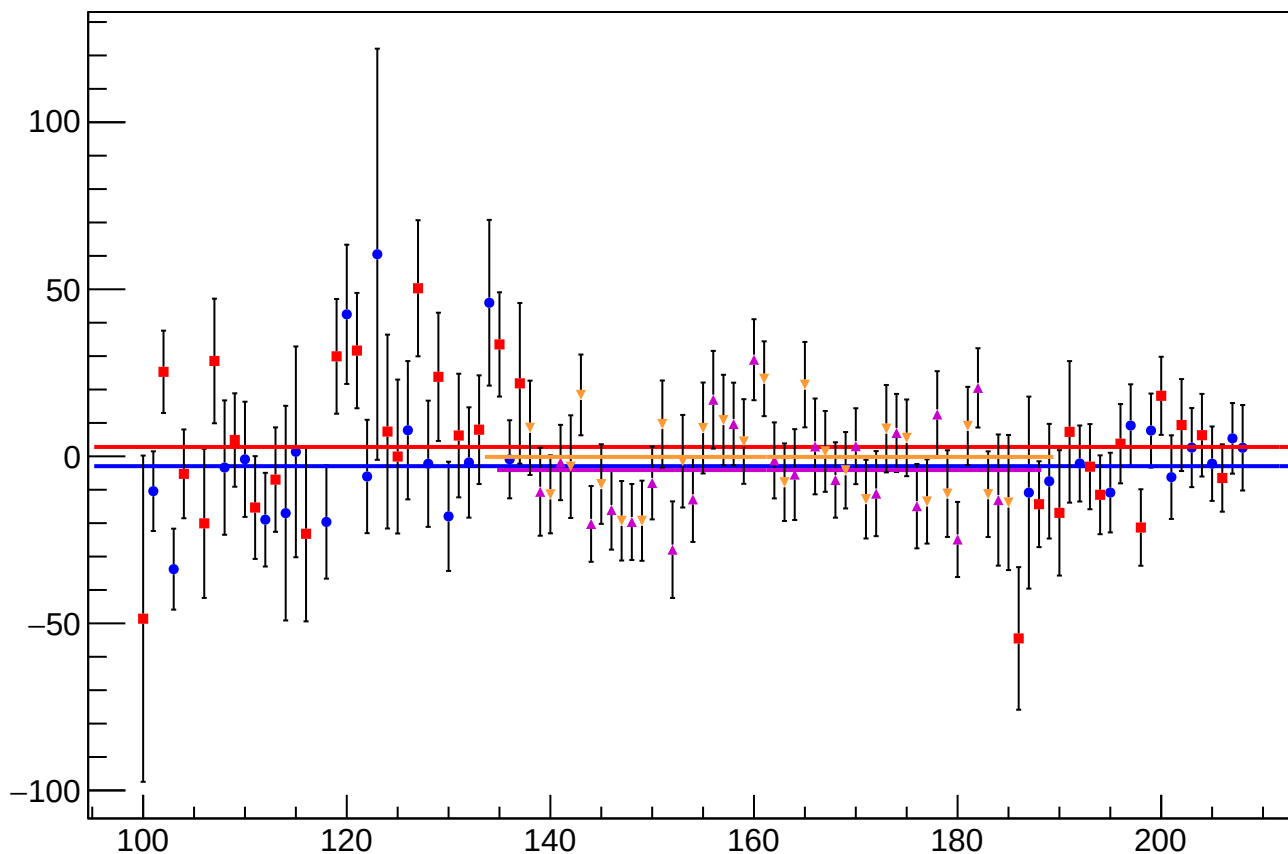
Right: 170.616 $\pm$ 0.024 χ^2 /NDF: 4877251.4/58

In: 174.482 $\pm$ 0.023 χ^2 /NDF:3782905.9/50

Out: 184.108 $\pm$ 0.024 χ^2 /NDF:4866070.2/55

All: 179.134 $\pm$ 0.016 χ^2 /NDF: 8734421.2/106

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.941 ± 2.790 χ^2/NDF : 23.8/27

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 2.809 ± 2.770 χ^2/NDF : 46.3/30

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

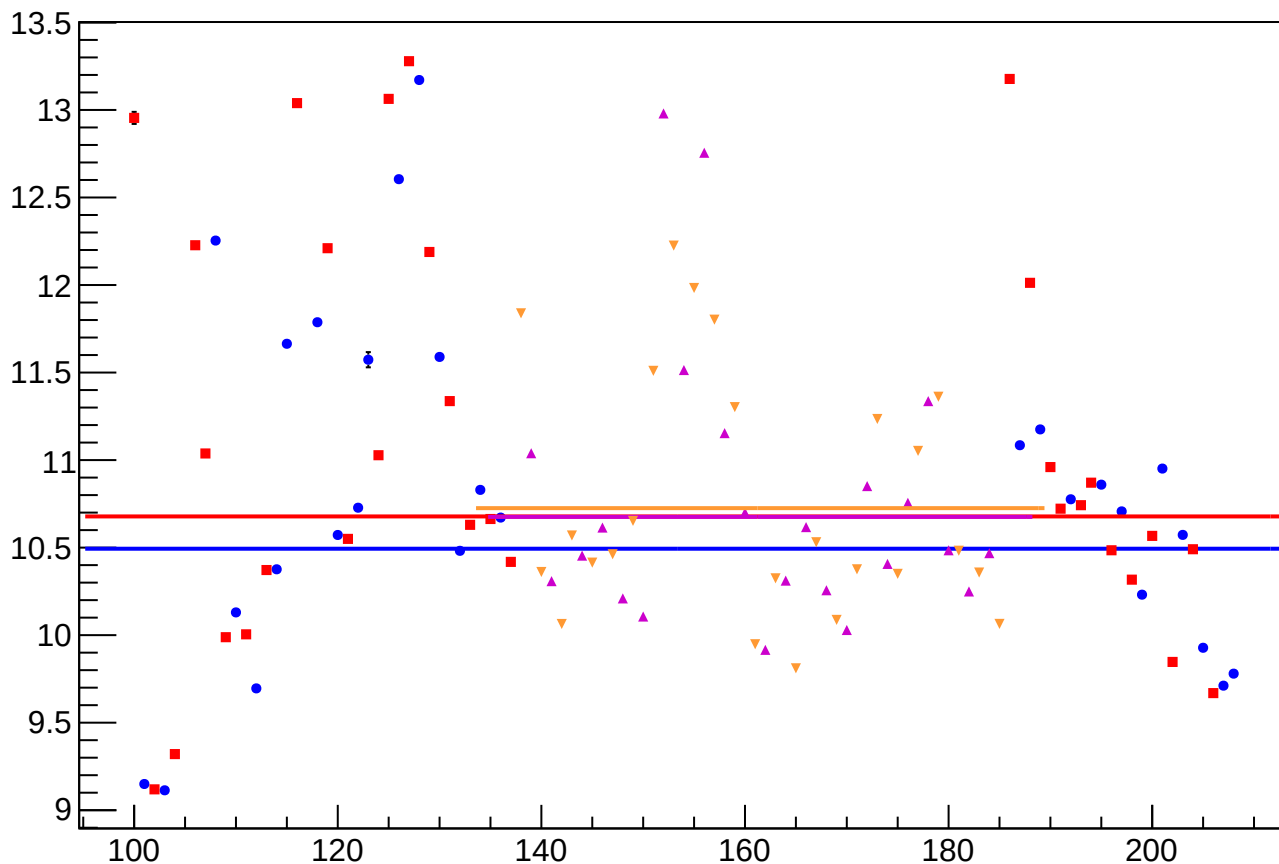
Right: -0.046 ± 1.966 χ^2/NDF : 72.3/58

In: -3.570 ± 1.893 χ^2/NDF : 55.5/50

Out: 1.179 ± 1.864 χ^2/NDF : 71.3/55

All: -1.159 ± 1.328 χ^2/NDF : 129.9/106

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.494 $\pm$ 0.002 χ^2 /NDF: 194177.6/27

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.678 $\pm$ 0.002 χ^2 /NDF: 259329.6/30

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

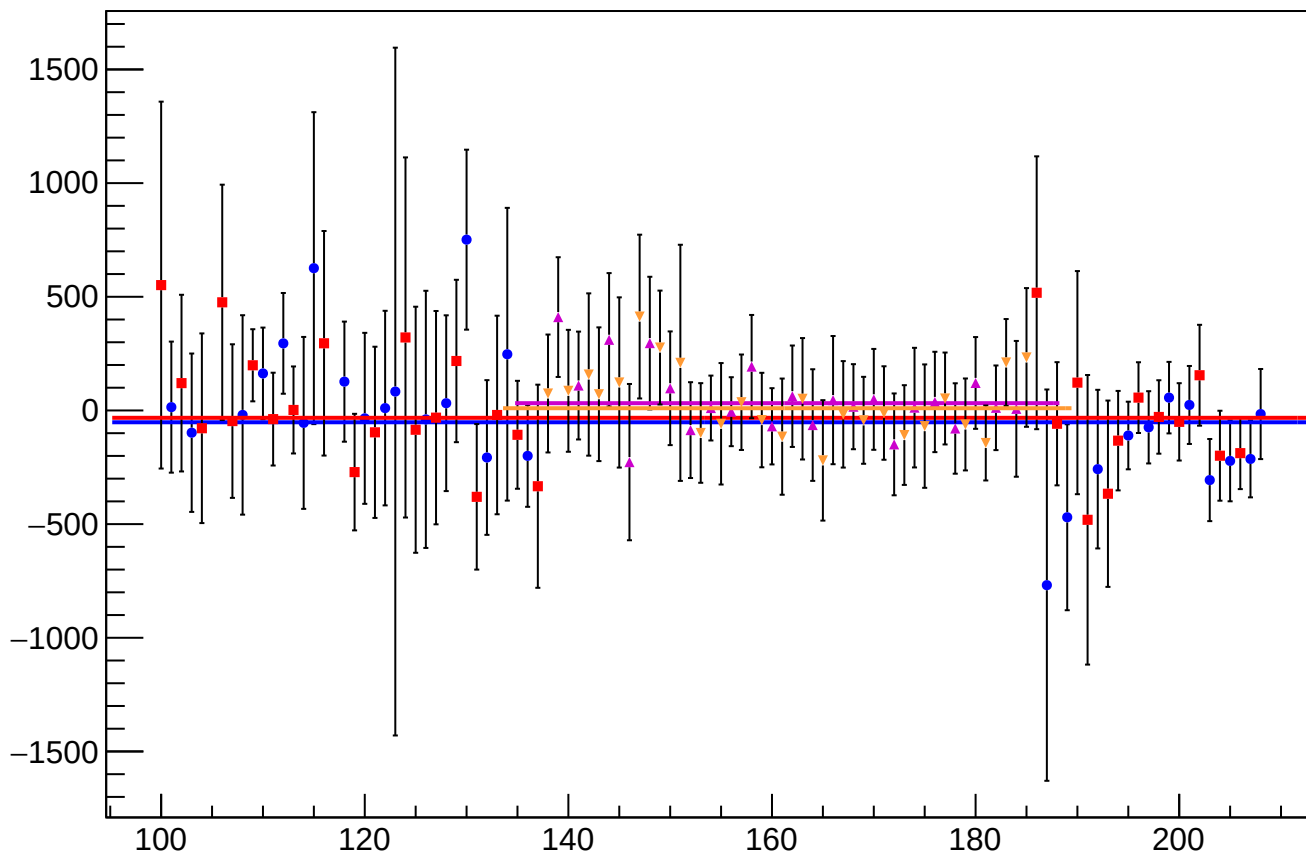
Right: 10.587 $\pm$ 0.001 χ^2 /NDF: 457909.1/58

In: 10.592 $\pm$ 0.001 χ^2 /NDF:344695.8/50

Out: 10.704 $\pm$ 0.001 χ^2 /NDF:391819.9/55

All: 10.649 $\pm$ 0.001 χ^2 /NDF: 740087.6/106

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.998 ± 47.057 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -32.367 ± 47.204 $\chi^2/\text{NDF}: 12.6/30$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

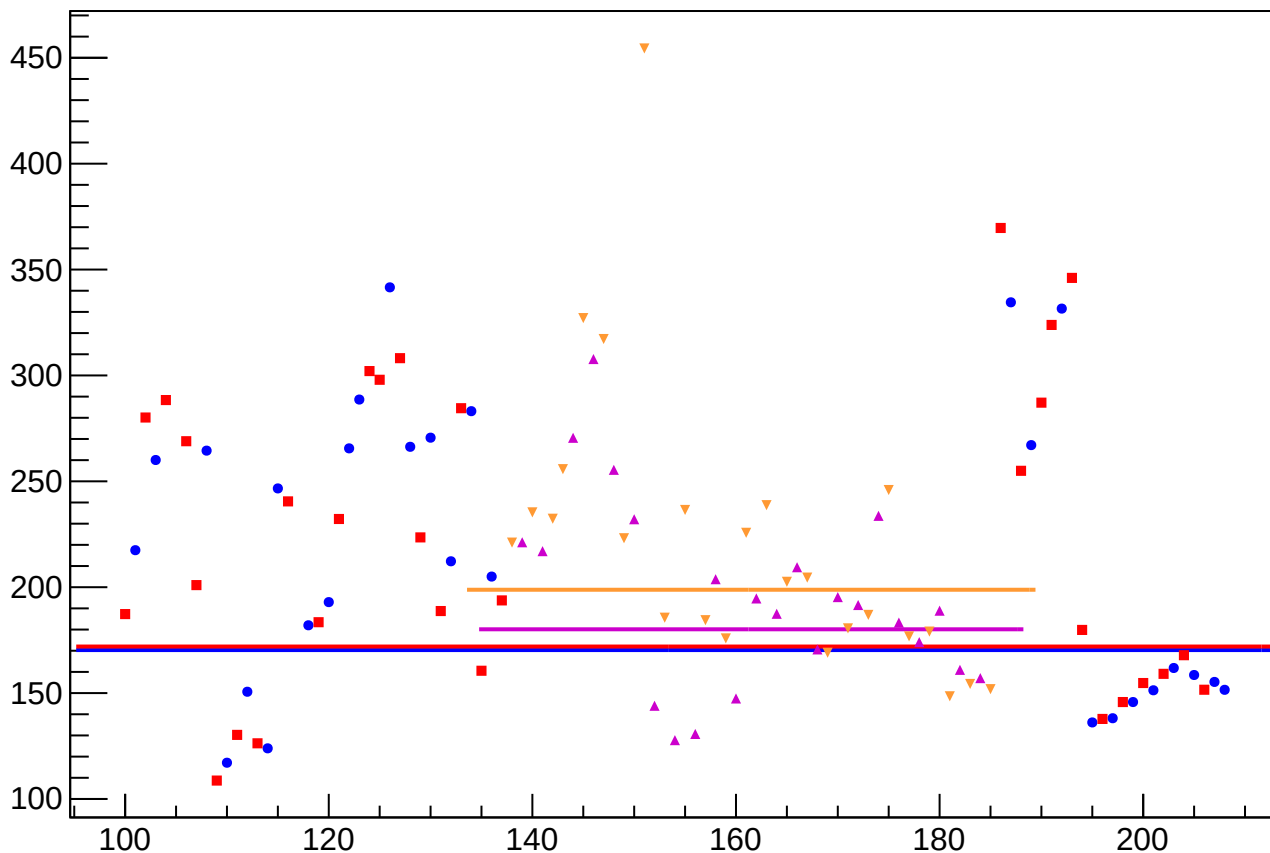
Right: -42.213 ± 33.326 $\chi^2/\text{NDF}: 29.6/58$

In: -8.164 ± 32.537 $\chi^2/\text{NDF}: 25.8/50$

Out: -11.626 ± 33.649 $\chi^2/\text{NDF}: 20.6/55$

All: -9.837 ± 23.390 $\chi^2/\text{NDF}: 46.3/106$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.314 $\pm$ 0.033 χ^2 /NDF: 2105493.5/27

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 171.983 $\pm$ 0.033 χ^2 /NDF: 2728415.4/30

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF:1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

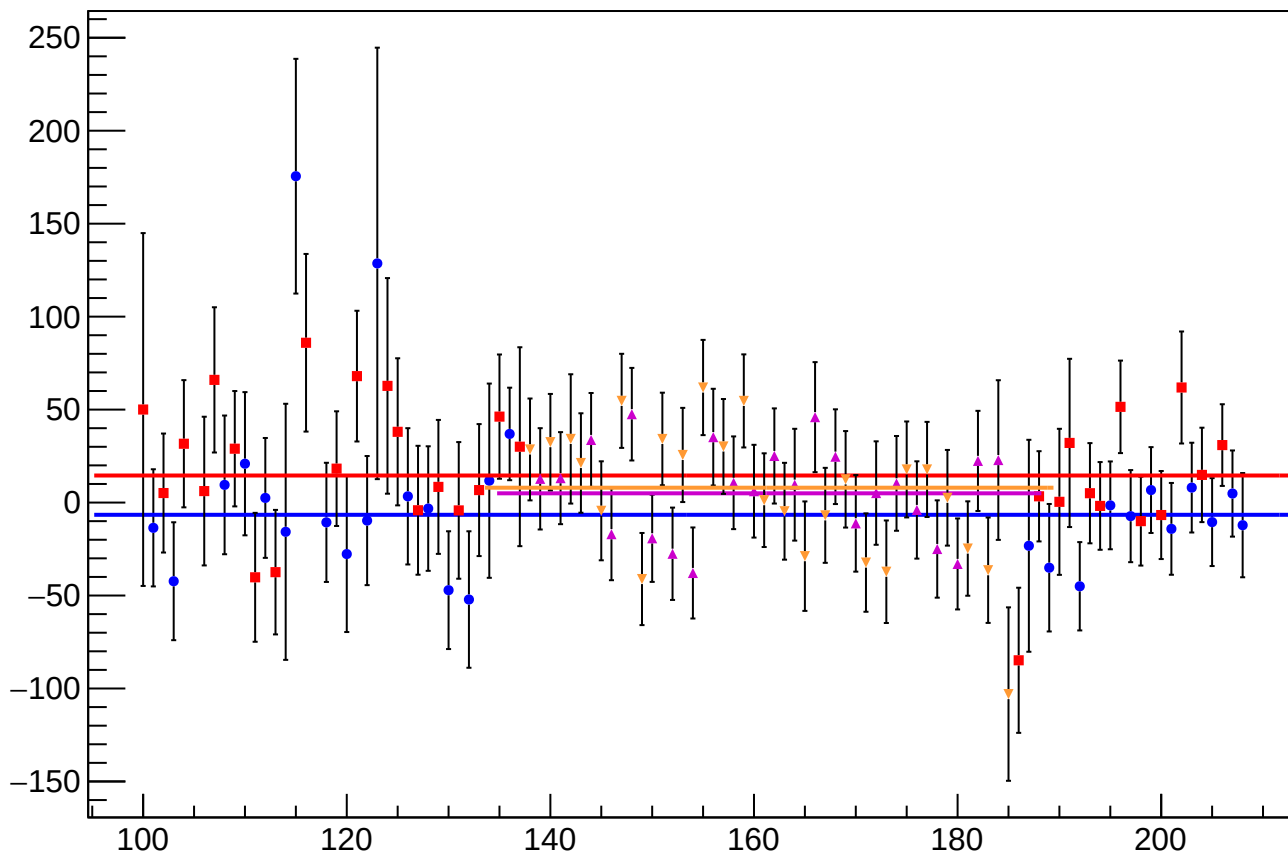
Right: 171.146 $\pm$ 0.024 χ^2 /NDF: 4835162.9/58

In: 175.434 $\pm$ 0.023 χ^2 /NDF:3744689.6/50

Out: 185.173 $\pm$ 0.024 χ^2 /NDF:4809031.2/55

All: 180.140 $\pm$ 0.017 χ^2 /NDF: 8640318.6/106

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.582 ± 5.859 $\chi^2/\text{NDF}: 23.1/27$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 14.554 ± 5.760 $\chi^2/\text{NDF}: 29.3/30$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

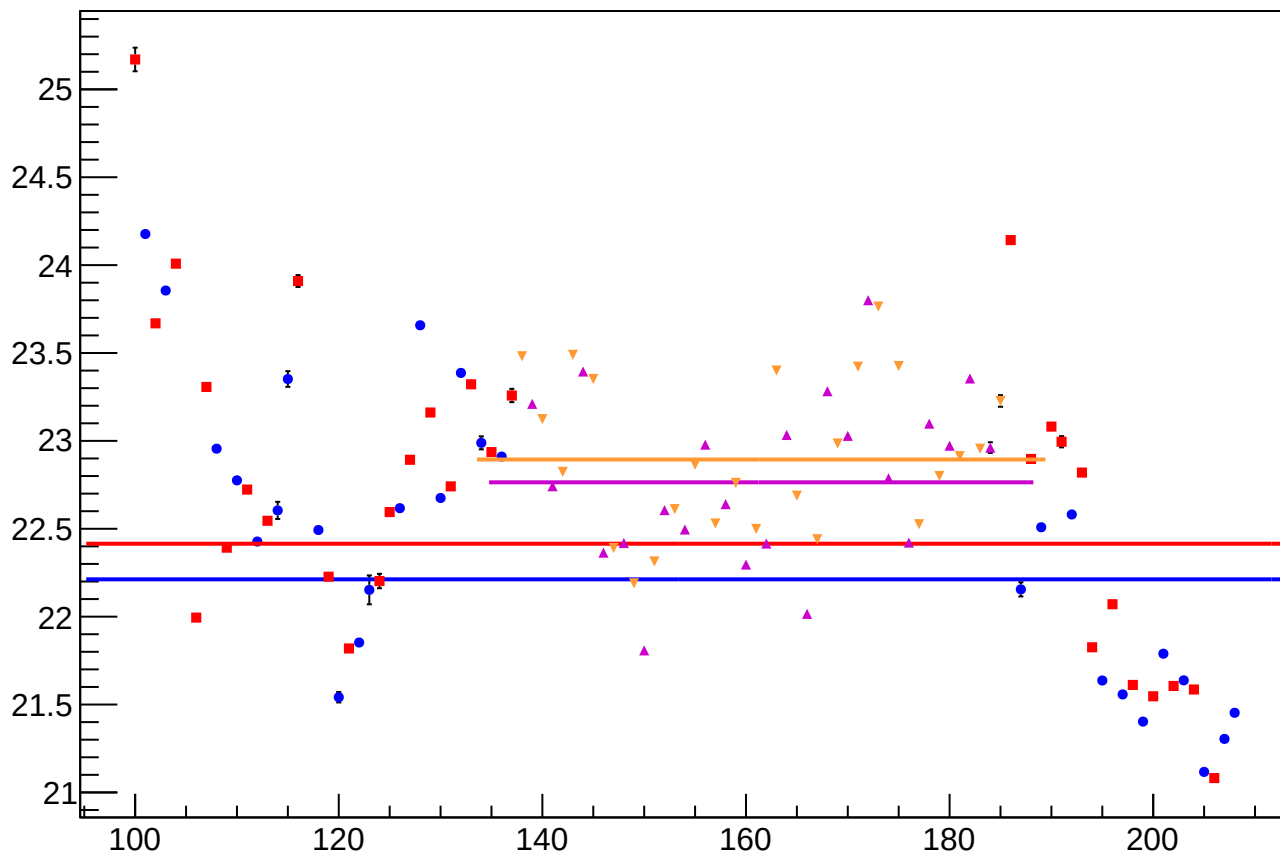
Right: 4.166 ± 4.107 $\chi^2/\text{NDF}: 58.9/58$

In: -0.382 ± 3.988 $\chi^2/\text{NDF}: 45.6/50$

Out: 11.016 ± 3.911 $\chi^2/\text{NDF}: 67.4/55$

All: 5.429 ± 2.792 $\chi^2/\text{NDF}: 117.2/106$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.212 $\pm$ 0.004 χ^2 /NDF: 40750.4/27

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.415 $\pm$ 0.004 χ^2 /NDF: 40497.1/30

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

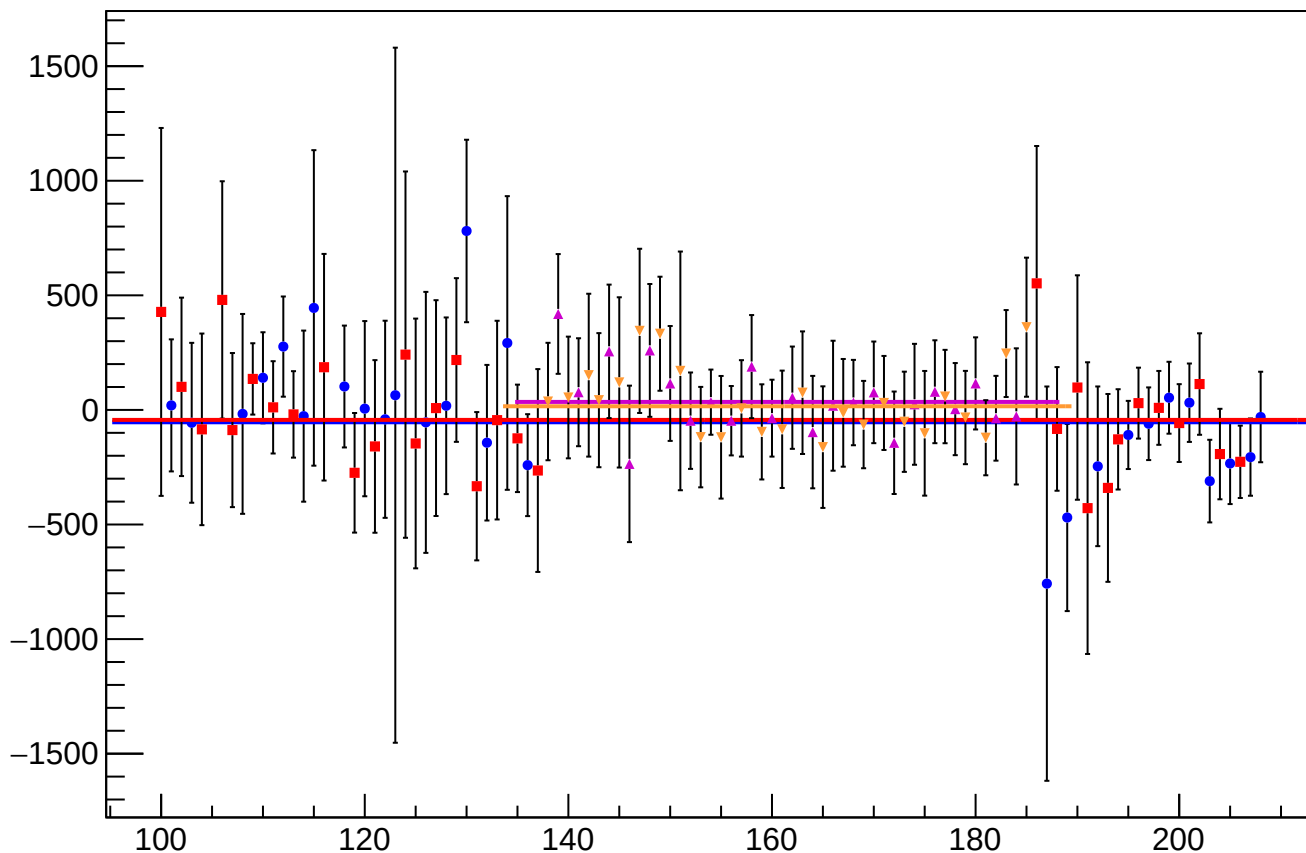
Right: 22.315 $\pm$ 0.003 χ^2 /NDF: 82464.2/58

In: 22.509 $\pm$ 0.003 χ^2 /NDF:64940.0/50

Out: 22.673 $\pm$ 0.003 χ^2 /NDF:61026.6/55

All: 22.592 $\pm$ 0.002 χ^2 /NDF: 127705.3/106

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.899 $\pm$ 46.920 χ^2 /NDF: 16.5/27

Left Out: 15.904 $\pm$ 47.898 χ^2 /NDF:8.4/24

Right Out: -43.557 $\pm$ 46.990 χ^2 /NDF: 10.8/30

Left In: 34.919 $\pm$ 44.971 χ^2 /NDF:6.6/22

Left: 26.010 $\pm$ 32.785 χ^2 /NDF: 15.1/47

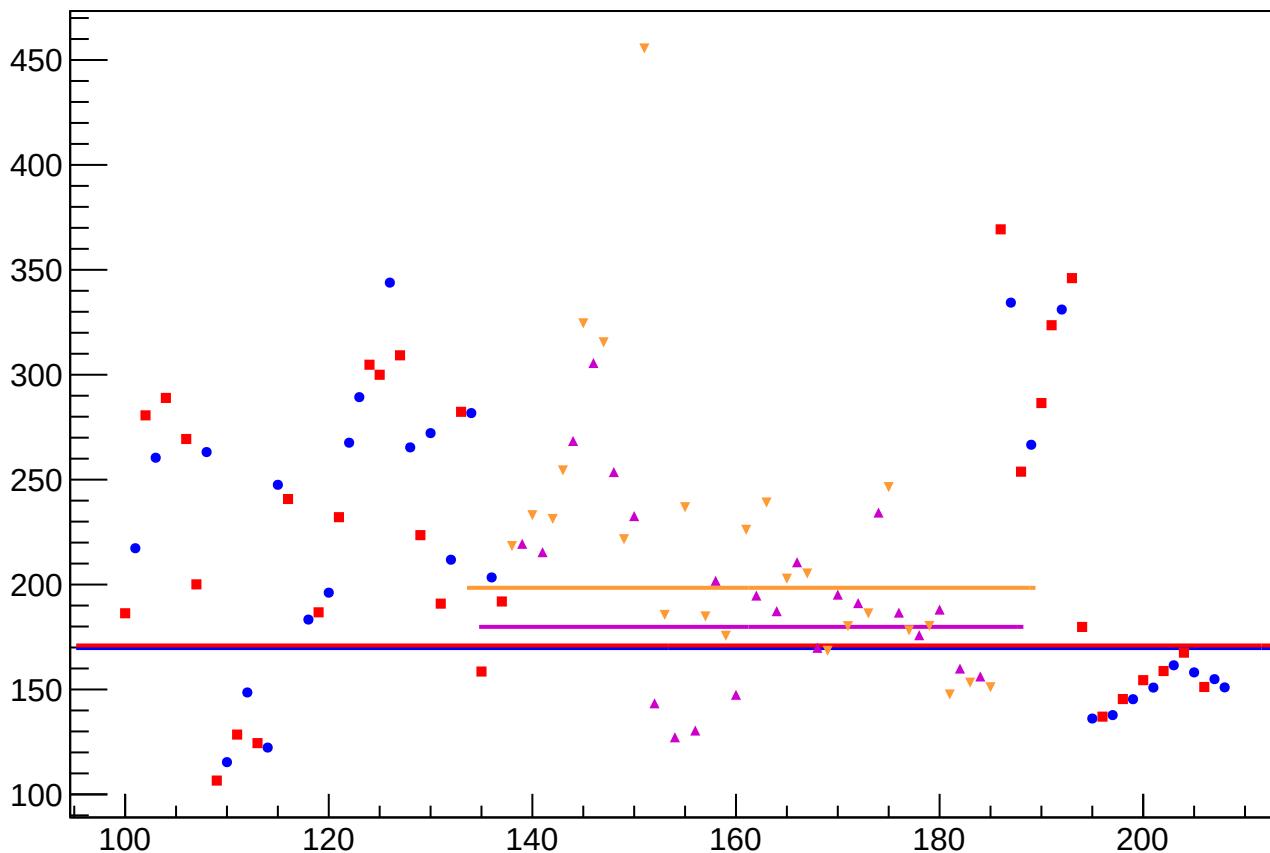
Right: -48.736 $\pm$ 33.202 χ^2 /NDF: 27.3/58

In: -7.607 $\pm$ 32.466 χ^2 /NDF:24.9/50

Out: -14.396 $\pm$ 33.543 χ^2 /NDF:20.0/55

All: -10.891 $\pm$ 23.329 χ^2 /NDF: 44.9/106

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.732 $\pm$ 0.033 χ^2 /NDF: 2135839.0/27

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 170.974 $\pm$ 0.033 χ^2 /NDF: 2797861.8/30

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

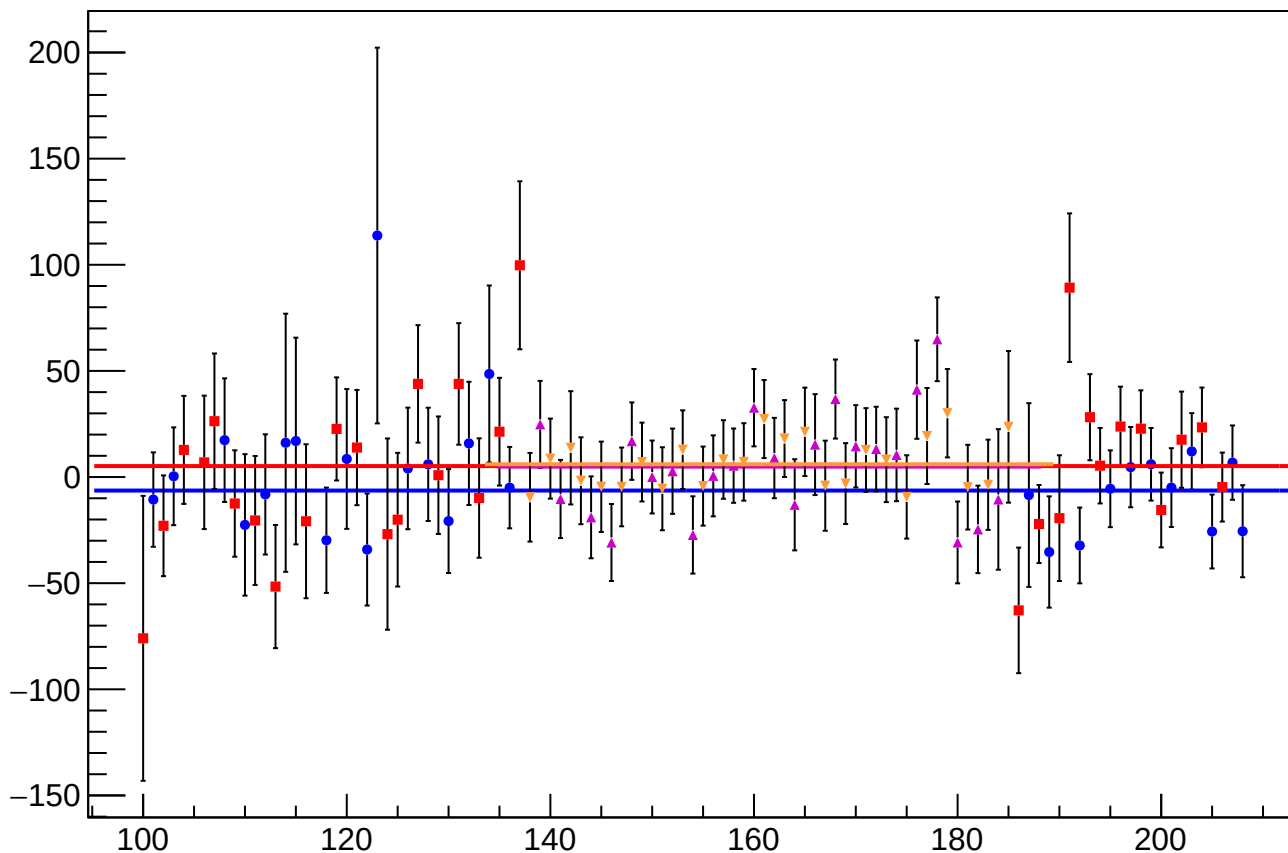
Right: 170.352 $\pm$ 0.023 χ^2 /NDF: 4934399.7/58

In: 175.000 $\pm$ 0.023 χ^2 /NDF:3773040.2/50

Out: 184.449 $\pm$ 0.024 χ^2 /NDF:4894654.8/55

All: 179.570 $\pm$ 0.016 χ^2 /NDF: 8749629.2/106

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.359 ± 4.477 χ^2/NDF : 16.3/27

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 5.160 ± 4.413 χ^2/NDF : 41.1/30

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

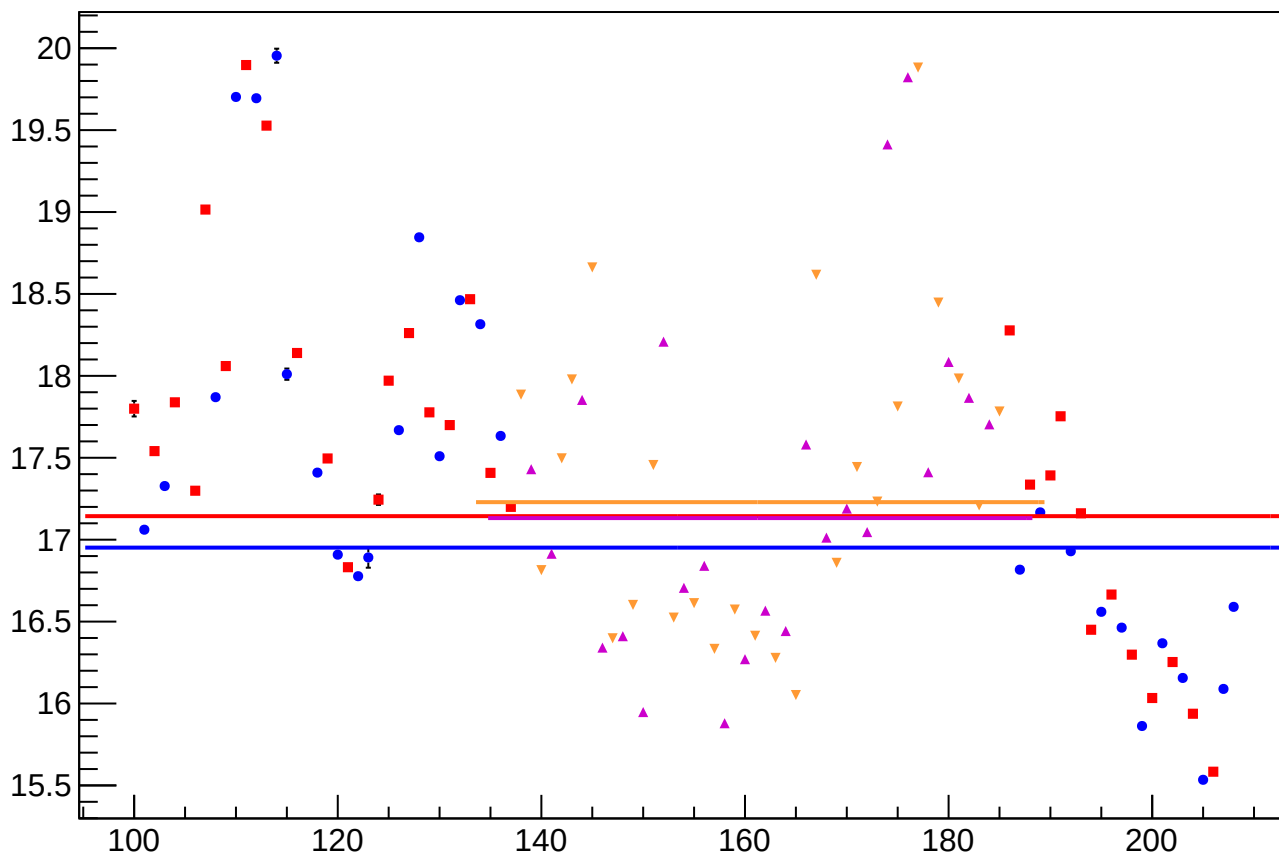
Right: -0.516 ± 3.143 χ^2/NDF : 60.7/58

In: -0.222 ± 3.027 χ^2/NDF : 54.6/50

Out: 5.630 ± 2.971 χ^2/NDF : 49.3/55

All: 2.759 ± 2.120 χ^2/NDF : 105.7/106

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.952 $\pm$ 0.003 χ^2 /NDF: 99087.1/27

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.144 $\pm$ 0.003 χ^2 /NDF: 105453.4/30

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

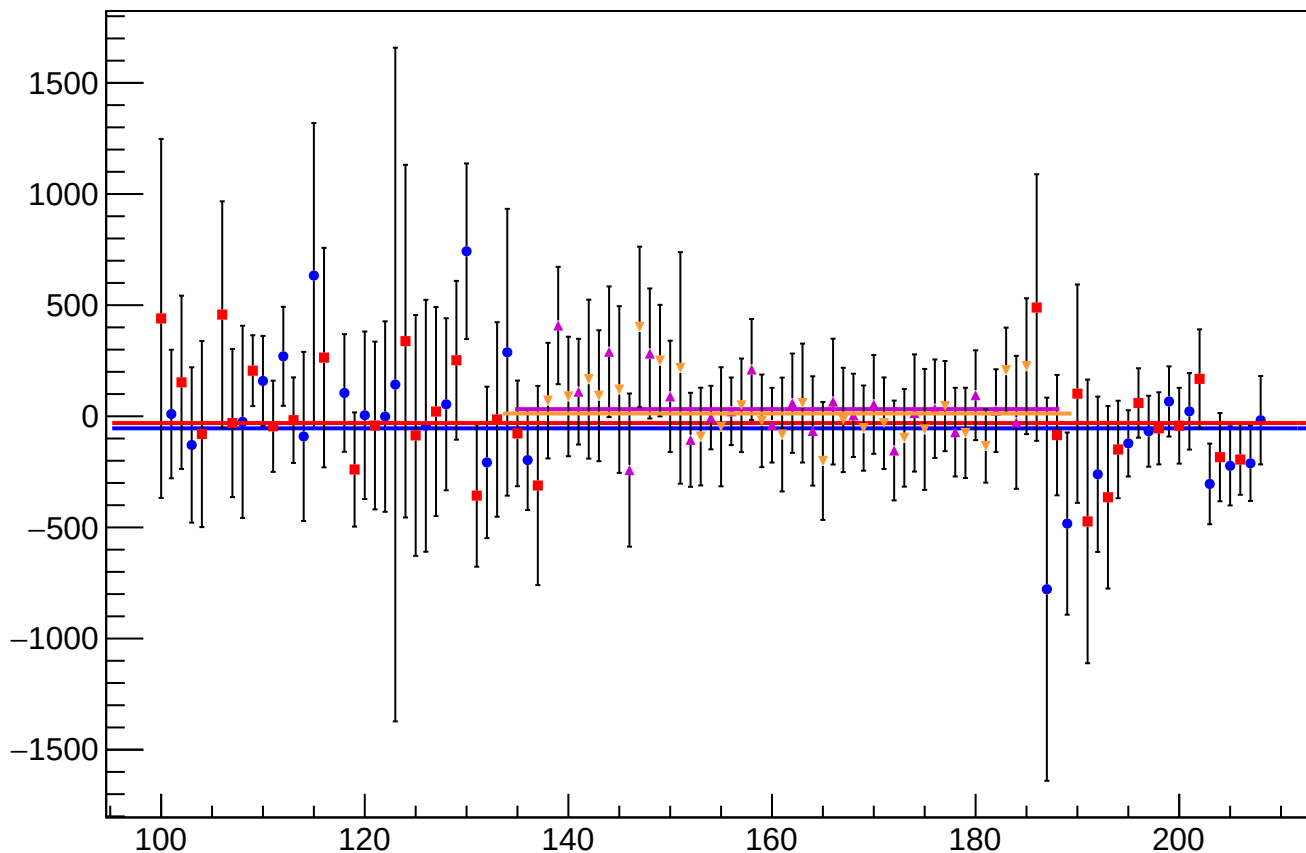
Right: 17.049 $\pm$ 0.002 χ^2 /NDF: 206407.4/58

In: 17.049 $\pm$ 0.002 χ^2 /NDF:204844.8/50

Out: 17.190 $\pm$ 0.002 χ^2 /NDF:204488.4/55

All: 17.121 $\pm$ 0.001 χ^2 /NDF: 411541.6/106

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.159 ± 47.199 χ^2/NDF : 16.6/27

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -30.431 ± 47.322 χ^2/NDF : 12.2/30

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

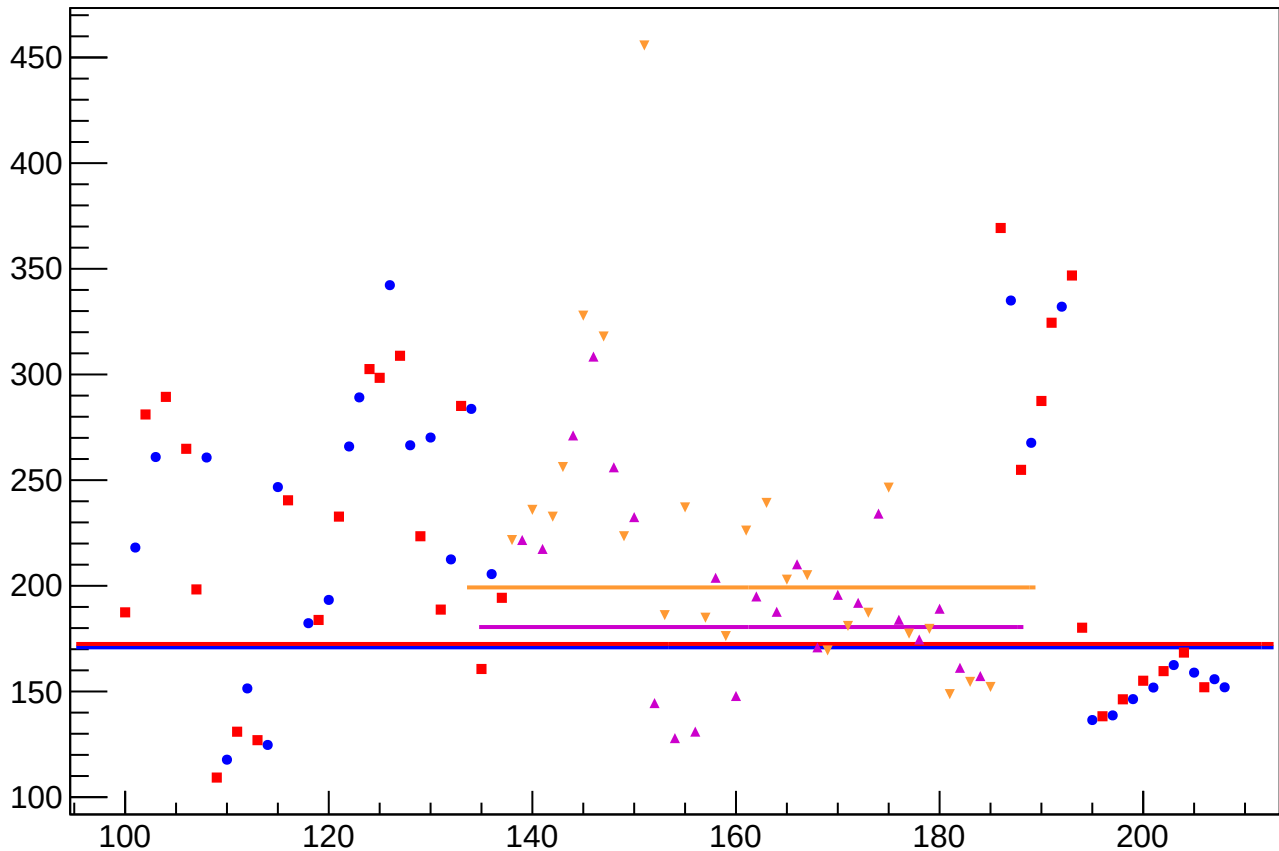
Right: -42.326 ± 33.418 χ^2/NDF : 28.9/58

In: -9.068 ± 32.619 χ^2/NDF : 25.3/50

Out: -9.322 ± 33.729 χ^2/NDF : 19.4/55

All: -9.191 ± 23.448 χ^2/NDF : 44.7/106

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.884 $\pm$ 0.033 χ^2 /NDF: 2087542.7/27

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 172.486 $\pm$ 0.033 χ^2 /NDF: 2704520.0/30

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

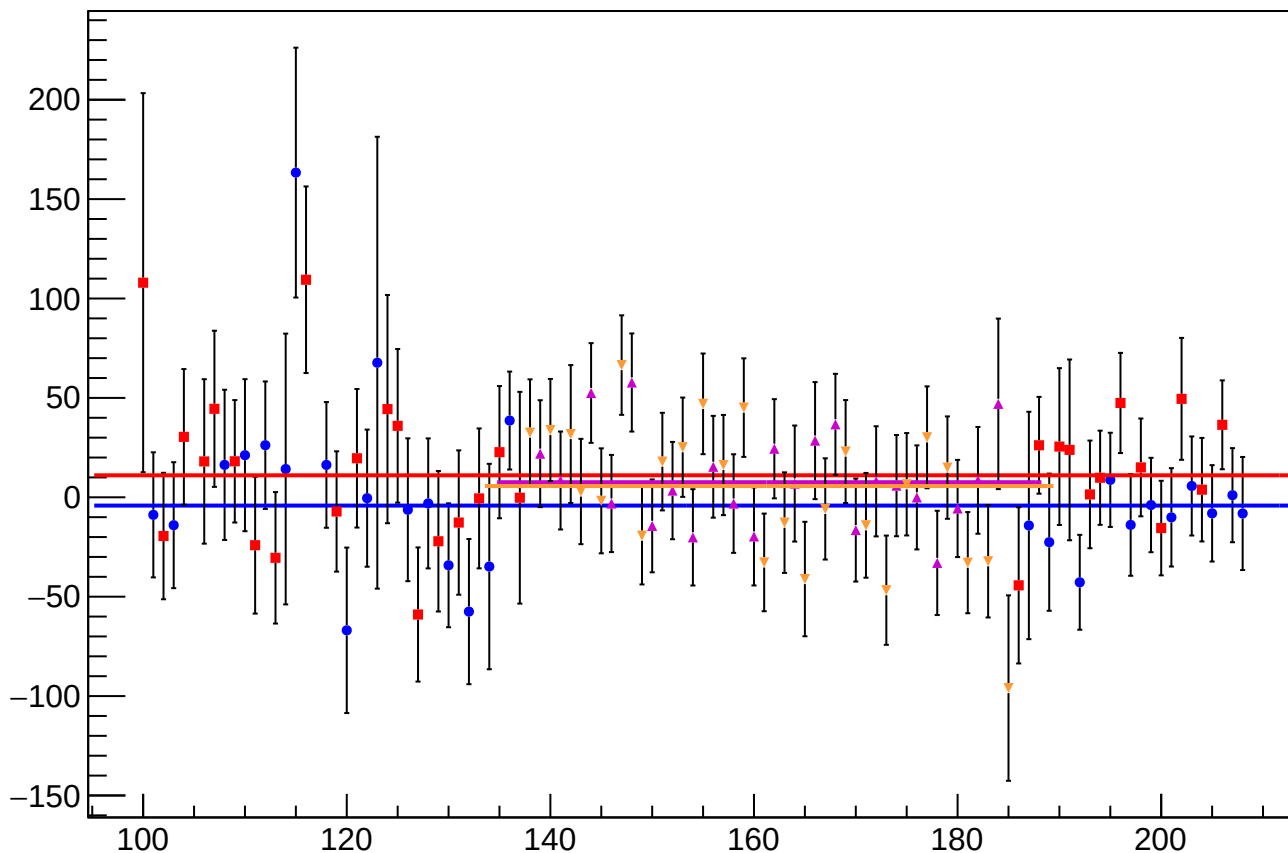
Right: 171.683 $\pm$ 0.024 χ^2 /NDF: 4793212.5/58

In: 175.904 $\pm$ 0.023 χ^2 /NDF:3724639.0/50

Out: 185.649 $\pm$ 0.024 χ^2 /NDF:4783157.4/55

All: 180.614 $\pm$ 0.017 χ^2 /NDF: 8594075.1/106

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.169 ± 5.894 χ^2/NDF : 22.1/27

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 11.067 ± 5.775 χ^2/NDF : 26.2/30

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

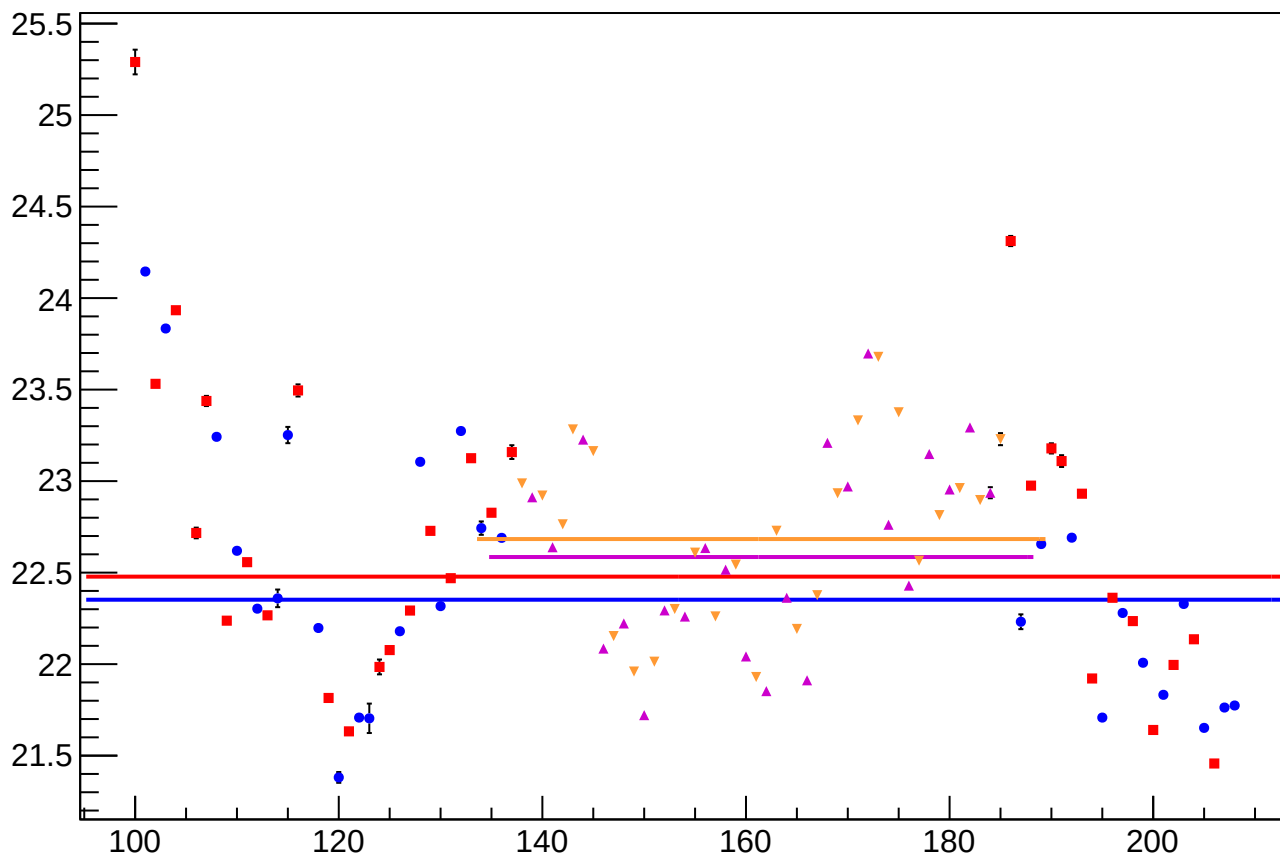
Right: 3.605 ± 4.125 χ^2/NDF : 51.7/58

In: 2.224 ± 3.982 χ^2/NDF : 42.6/50

Out: 8.128 ± 3.896 χ^2/NDF : 63.0/55

All: 5.241 ± 2.785 χ^2/NDF : 106.8/106

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.352+/-0.004 χ^2/NDF : 24368.2/27

Left Out: 22.683+/-0.004 χ^2/NDF :16318.1/24

Right Out: 22.478+/-0.004 χ^2/NDF : 29473.4/30

Left In: 22.585+/-0.004 χ^2/NDF :18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

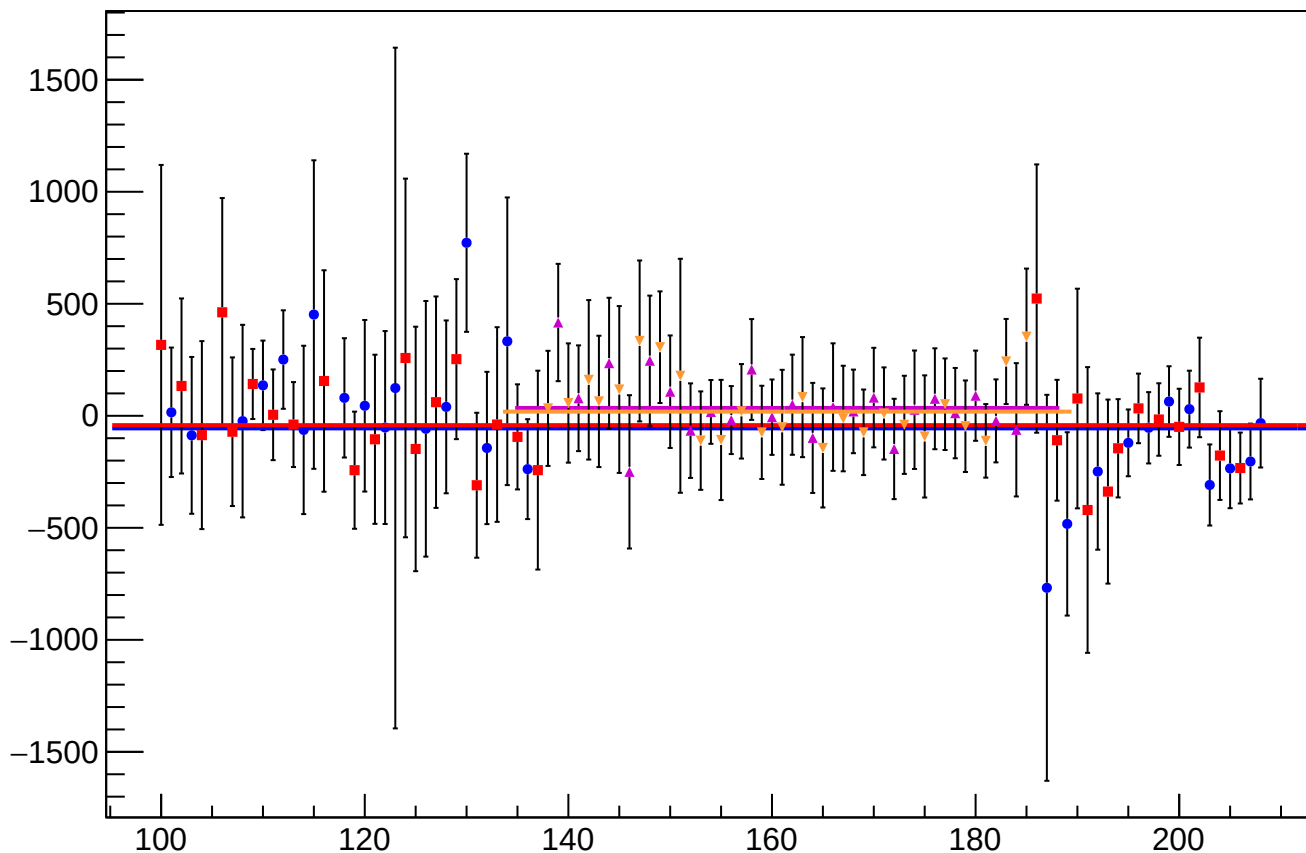
Right: 22.416+/-0.003 χ^2/NDF : 54308.5/58

In: 22.479+/-0.003 χ^2/NDF :44158.3/50

Out: 22.590+/-0.003 χ^2/NDF :47169.7/55

All: 22.536+/-0.002 χ^2/NDF : 92124.9/106

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.138 ± 47.063 χ^2/NDF : 16.2/27

Left Out: 18.633 ± 48.006 χ^2/NDF : 7.6/24

Right Out: -41.675 ± 47.109 χ^2/NDF : 10.3/30

Left In: 35.046 ± 45.063 χ^2/NDF : 6.3/22

Left: 27.358 ± 32.855 χ^2/NDF : 13.9/47

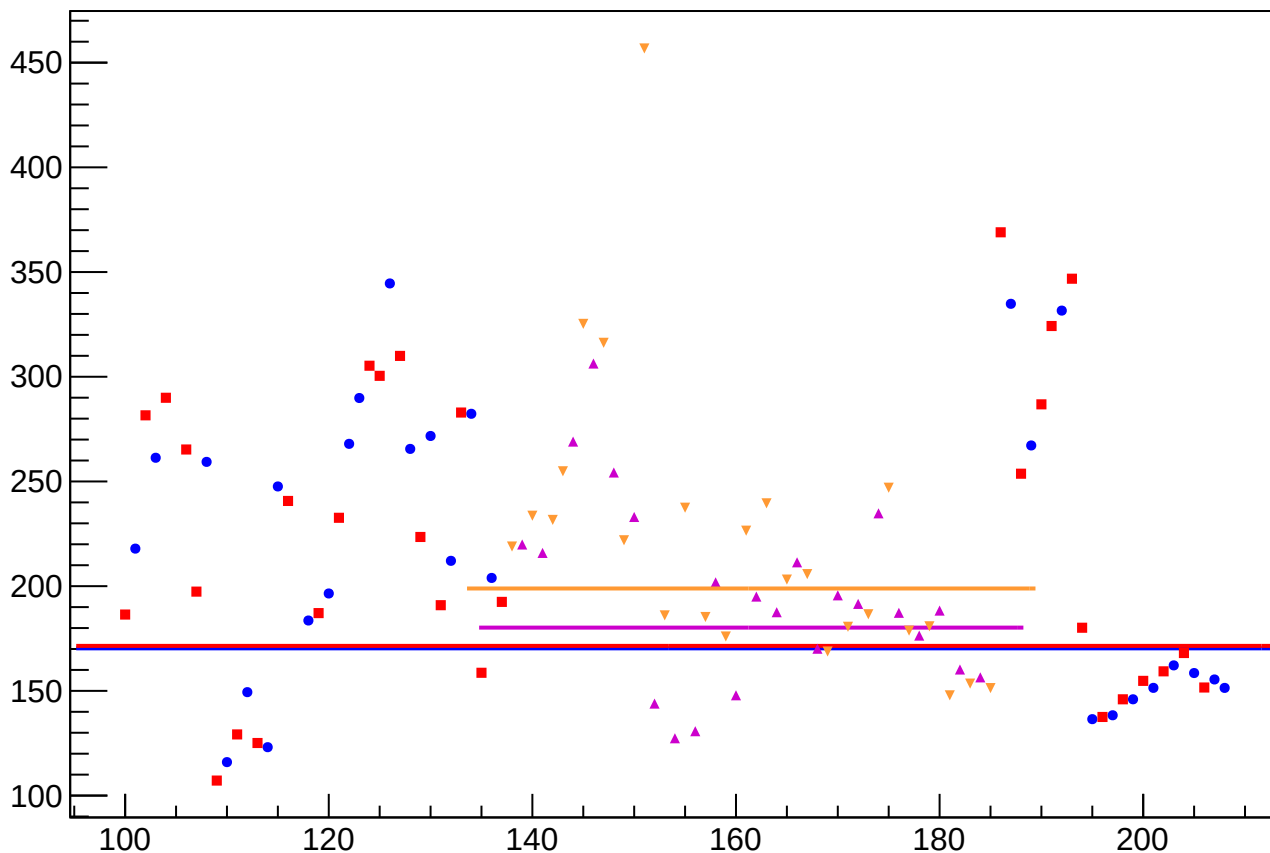
Right: -48.914 ± 33.295 χ^2/NDF : 26.5/58

In: -8.568 ± 32.548 χ^2/NDF : 24.4/50

Out: -12.090 ± 33.624 χ^2/NDF : 18.7/55

All: -10.272 ± 23.386 χ^2/NDF : 43.1/106

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.307+/-0.033 χ^2/NDF : 2117307.4/27

Left Out: 198.891+/-0.034 χ^2/NDF :1762454.6/24

Right Out: 171.485+/-0.033 χ^2/NDF : 2773025.5/30

Left In: 180.207+/-0.032 χ^2/NDF :1589005.4/22

Left: 188.959+/-0.023 χ^2/NDF : 3512499.2/47

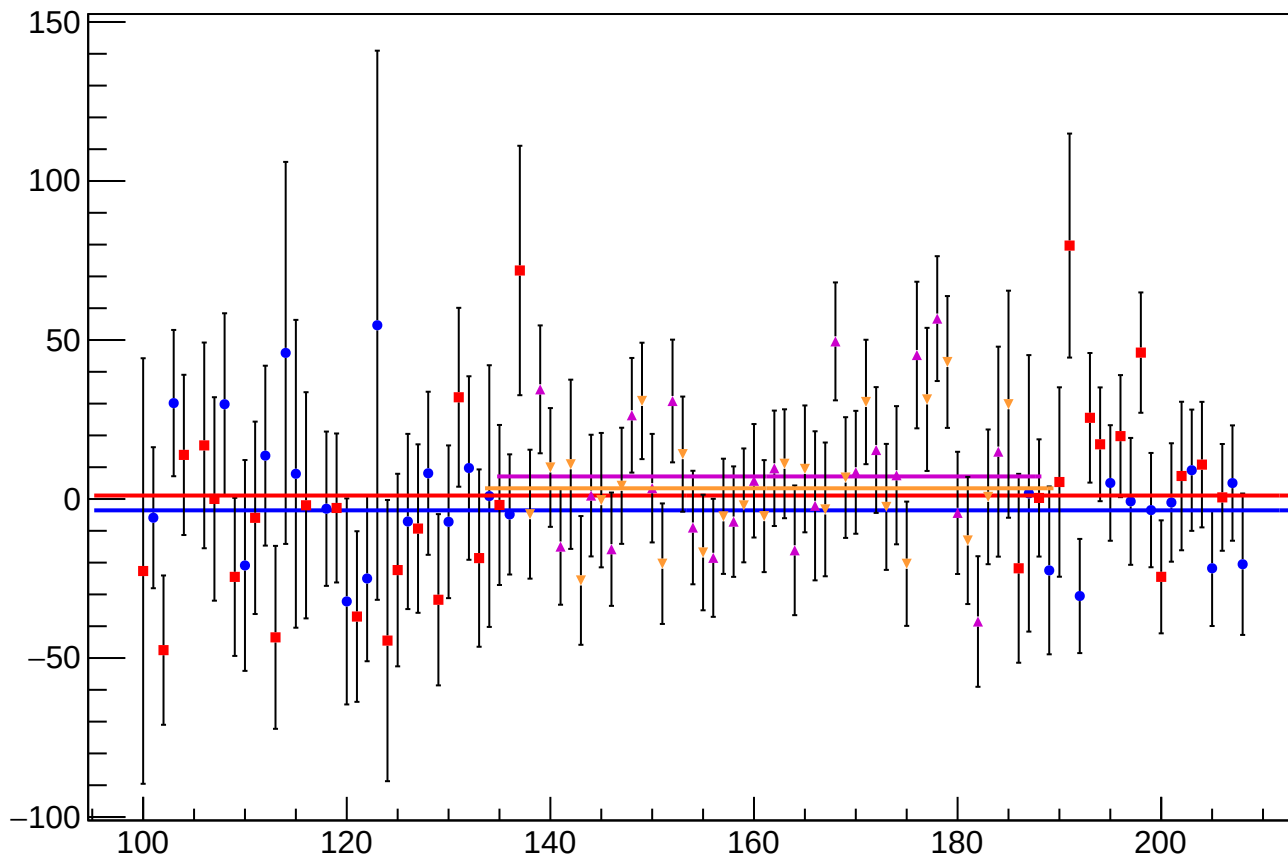
Right: 170.895+/-0.024 χ^2/NDF : 4890958.2/58

In: 175.472+/-0.023 χ^2/NDF :3752482.8/50

Out: 184.929+/-0.024 χ^2/NDF :4867539.3/55

All: 180.047+/-0.017 χ^2/NDF : 8701704.1/106

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.565 ± 4.523 $\chi^2/\text{NDF}: 12.6/27$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.096 ± 4.436 $\chi^2/\text{NDF}: 35.6/30$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

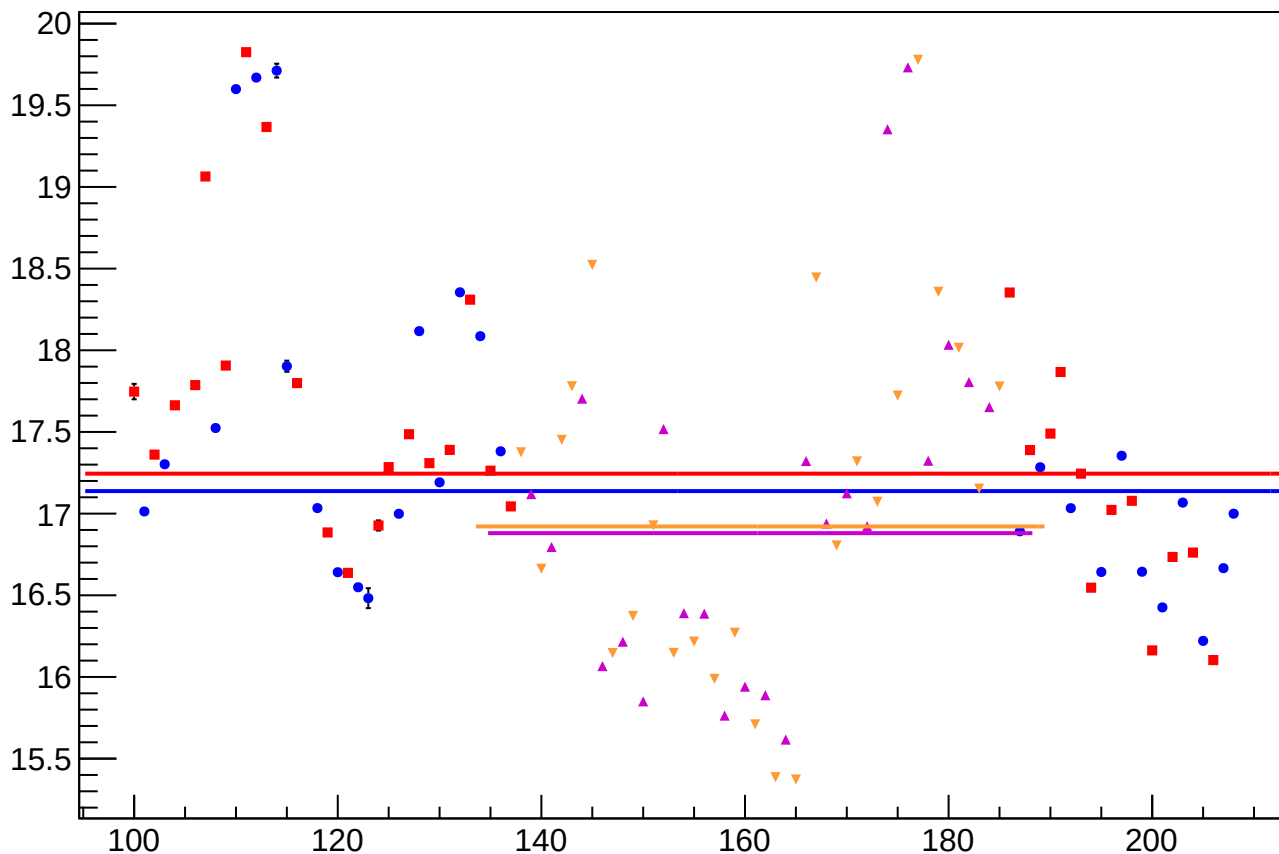
Right: -1.189 ± 3.167 $\chi^2/\text{NDF}: 48.7/58$

In: 2.358 ± 3.016 $\chi^2/\text{NDF}: 48.2/50$

Out: 2.366 ± 2.949 $\chi^2/\text{NDF}: 54.5/55$

All: 2.362 ± 2.108 $\chi^2/\text{NDF}: 102.7/106$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.138 $\pm$ 0.003 χ^2 /NDF: 54229.8/27

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.245 $\pm$ 0.003 χ^2 /NDF: 65848.4/30

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

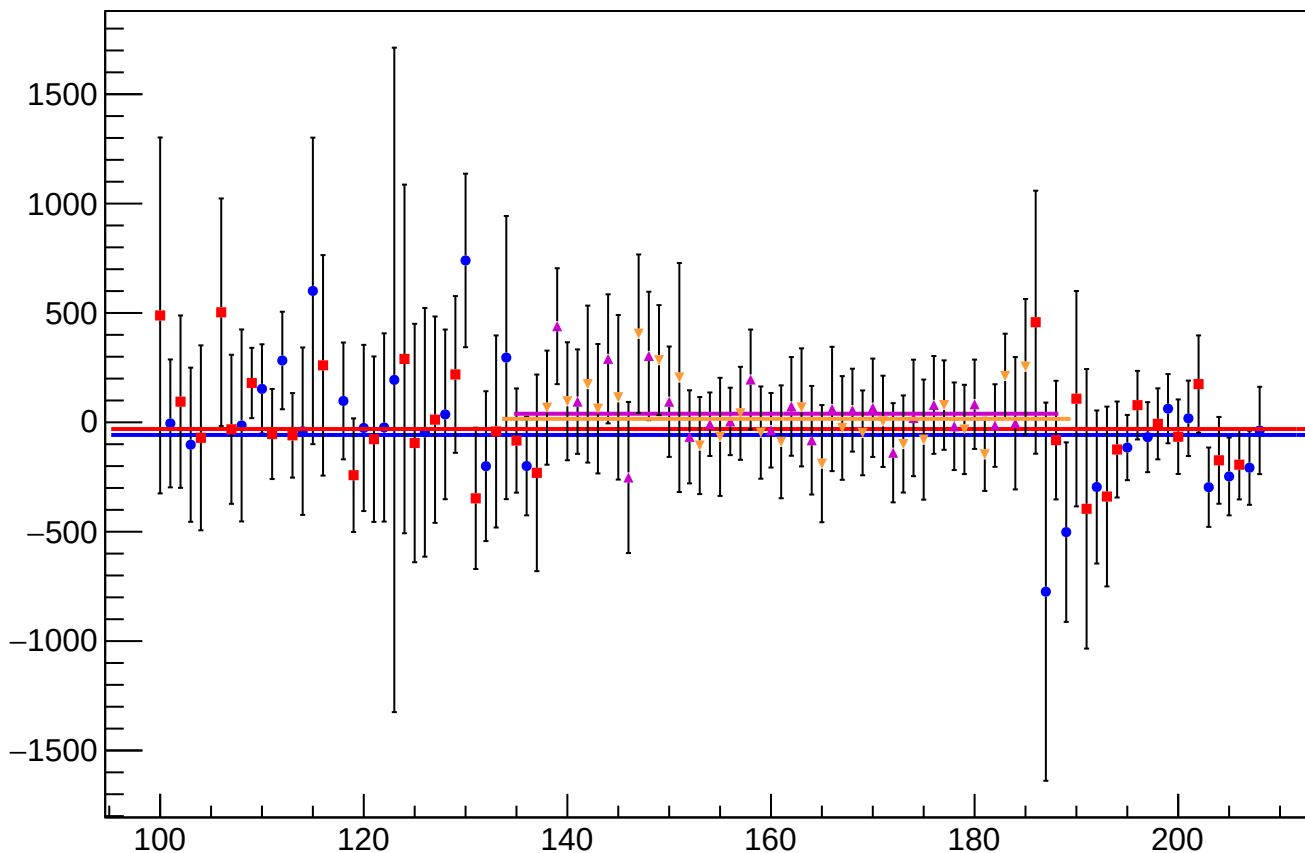
Right: 17.192 $\pm$ 0.002 χ^2 /NDF: 120645.7/58

In: 16.995 $\pm$ 0.002 χ^2 /NDF:179565.0/50

Out: 17.064 $\pm$ 0.002 χ^2 /NDF:210764.7/55

All: 17.030 $\pm$ 0.001 χ^2 /NDF: 390870.2/106

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.612 ± 47.334 χ^2/NDF : 16.6/27

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -30.564 ± 47.488 χ^2/NDF : 11.0/30

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

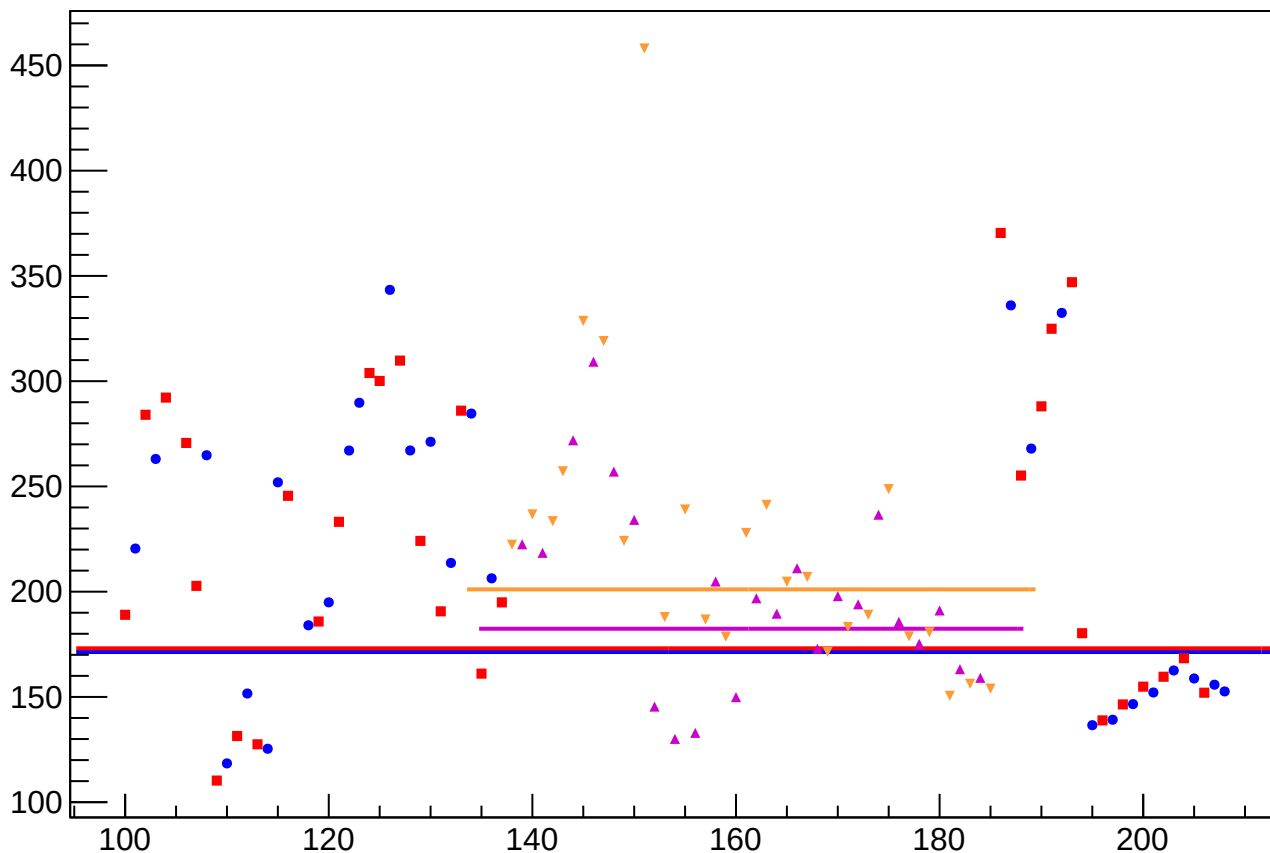
Right: -44.132 ± 33.524 χ^2/NDF : 27.8/58

In: -7.278 ± 32.829 χ^2/NDF : 25.7/50

Out: -7.790 ± 33.932 χ^2/NDF : 18.9/55

All: -7.525 ± 23.594 χ^2/NDF : 44.5/106

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.333+/-0.033 χ^2/NDF : 2103563.2/27

Left Out: 201.091+/-0.034 χ^2/NDF :1731069.1/24

Right Out: 173.089+/-0.034 χ^2/NDF : 2715275.7/30

Left In: 182.396+/-0.032 χ^2/NDF :1548907.7/22

Left: 191.161+/-0.023 χ^2/NDF : 3437793.2/47

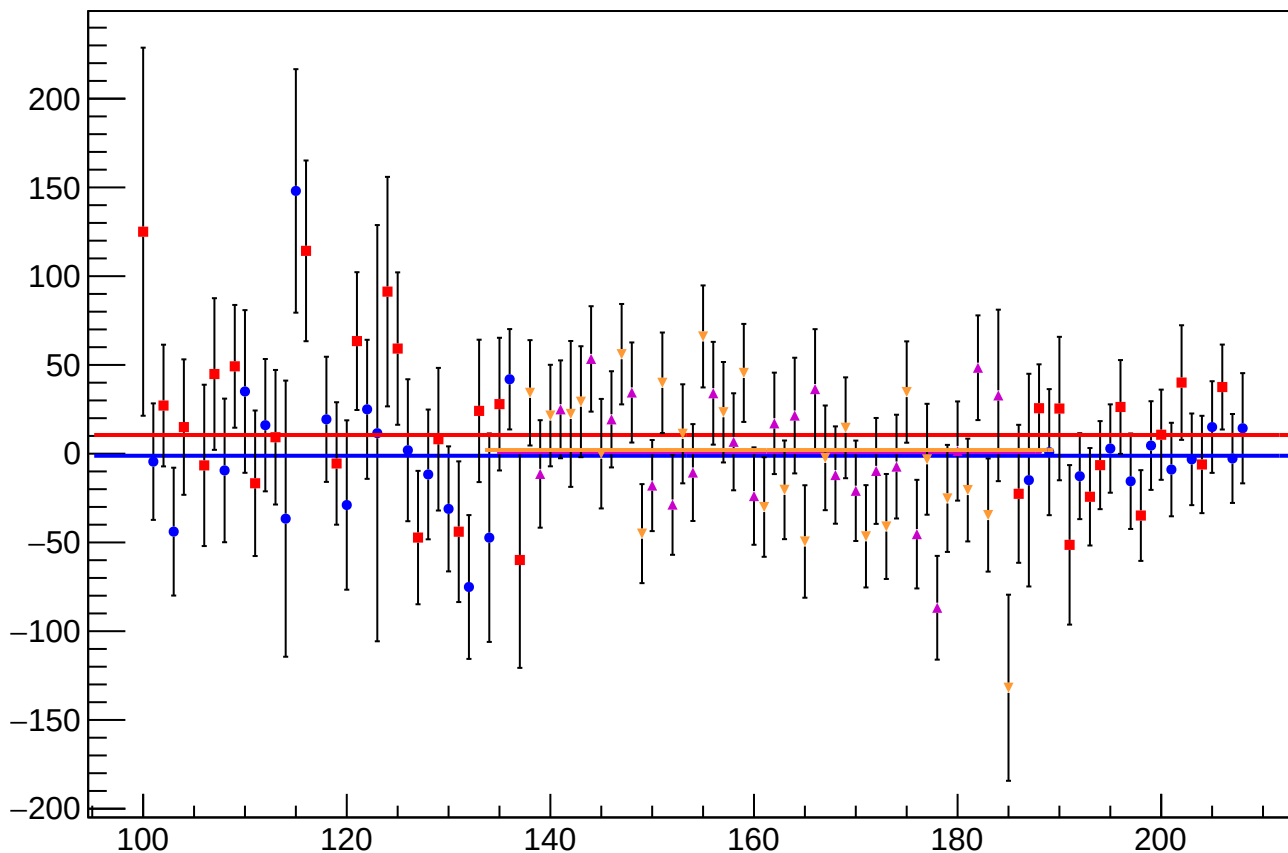
Right: 172.208+/-0.024 χ^2/NDF : 4820210.7/58

In: 177.074+/-0.023 χ^2/NDF :3709171.1/50

Out: 186.794+/-0.024 χ^2/NDF :4786702.3/55

All: 181.774+/-0.017 χ^2/NDF : 8580630.4/106

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.167 ± 6.371 χ^2/NDF : 16.8/27

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.535 ± 6.209 χ^2/NDF : 30.1/30

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

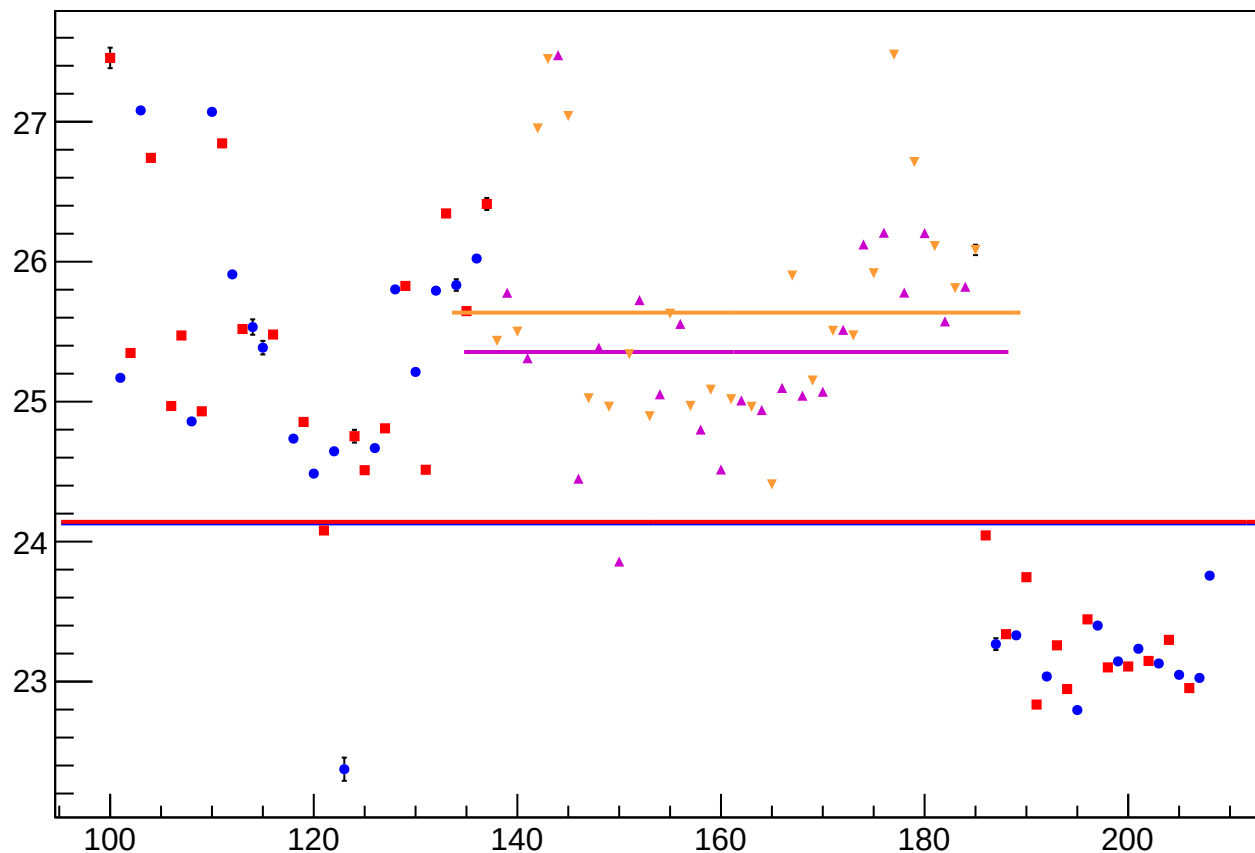
Right: 4.835 ± 4.446 χ^2/NDF : 48.7/58

In: -0.083 ± 4.394 χ^2/NDF : 44.0/50

Out: 6.128 ± 4.303 χ^2/NDF : 70.6/55

All: 3.088 ± 3.075 χ^2/NDF : 115.5/106

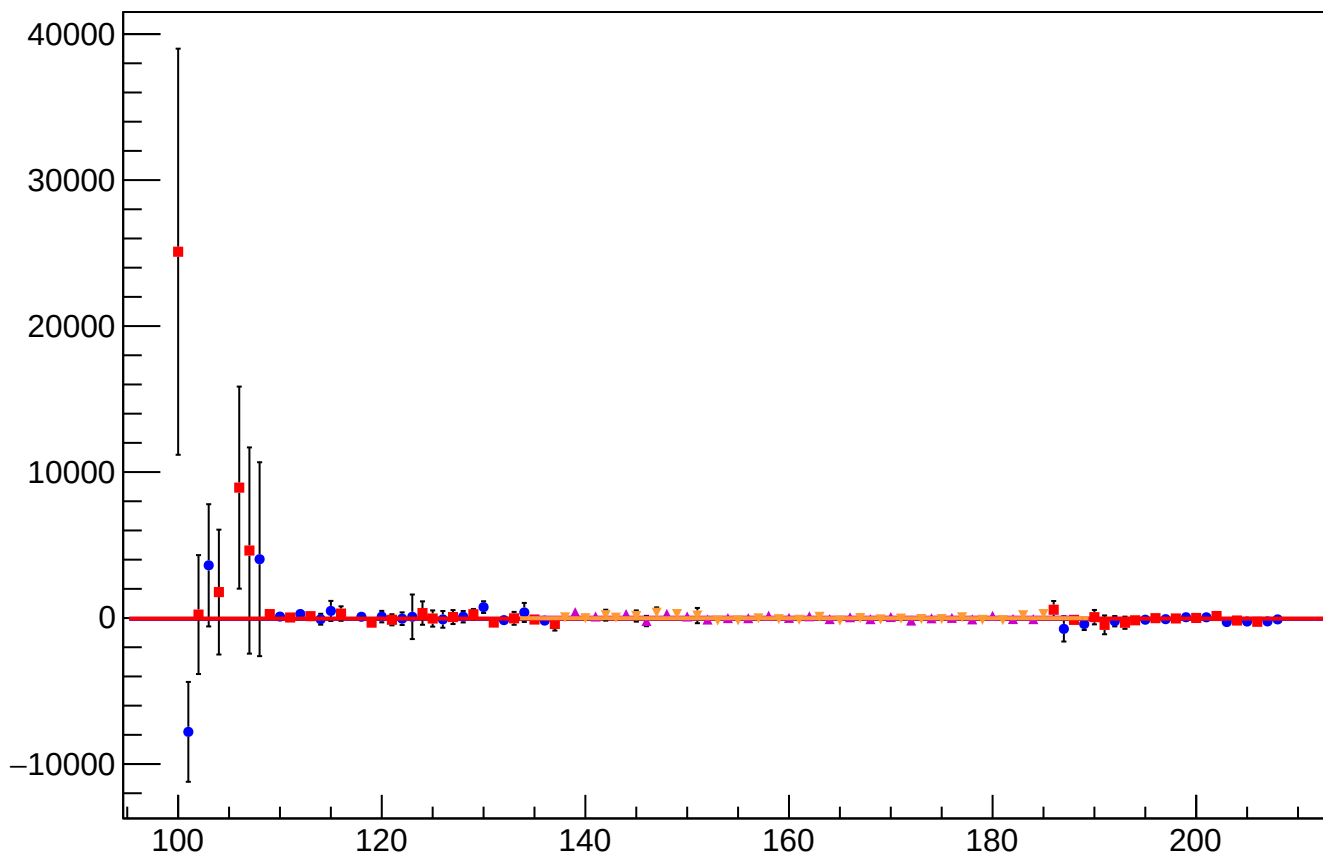
asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.130 $\pm$ 0.005 χ^2 /NDF: 80994.7/27
 Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24
 Right Out: 24.141 $\pm$ 0.004 χ^2 /NDF: 75216.4/30
 Left In: 25.355 $\pm$ 0.004 χ^2 /NDF:29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47
 Right: 24.136 $\pm$ 0.003 χ^2 /NDF: 156214.2/58
 In: 24.772 $\pm$ 0.003 χ^2 /NDF:149488.4/50
 Out: 24.918 $\pm$ 0.003 χ^2 /NDF:170584.2/55
 All: 24.847 $\pm$ 0.002 χ^2 /NDF: 321196.0/106

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.500 $\pm$ 49.651 χ^2 /NDF: 21.1/27

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF:7.9/24

Right Out: -37.990 $\pm$ 50.793 χ^2 /NDF: 17.7/30

Left In: 26.836 $\pm$ 45.876 χ^2 /NDF:7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47

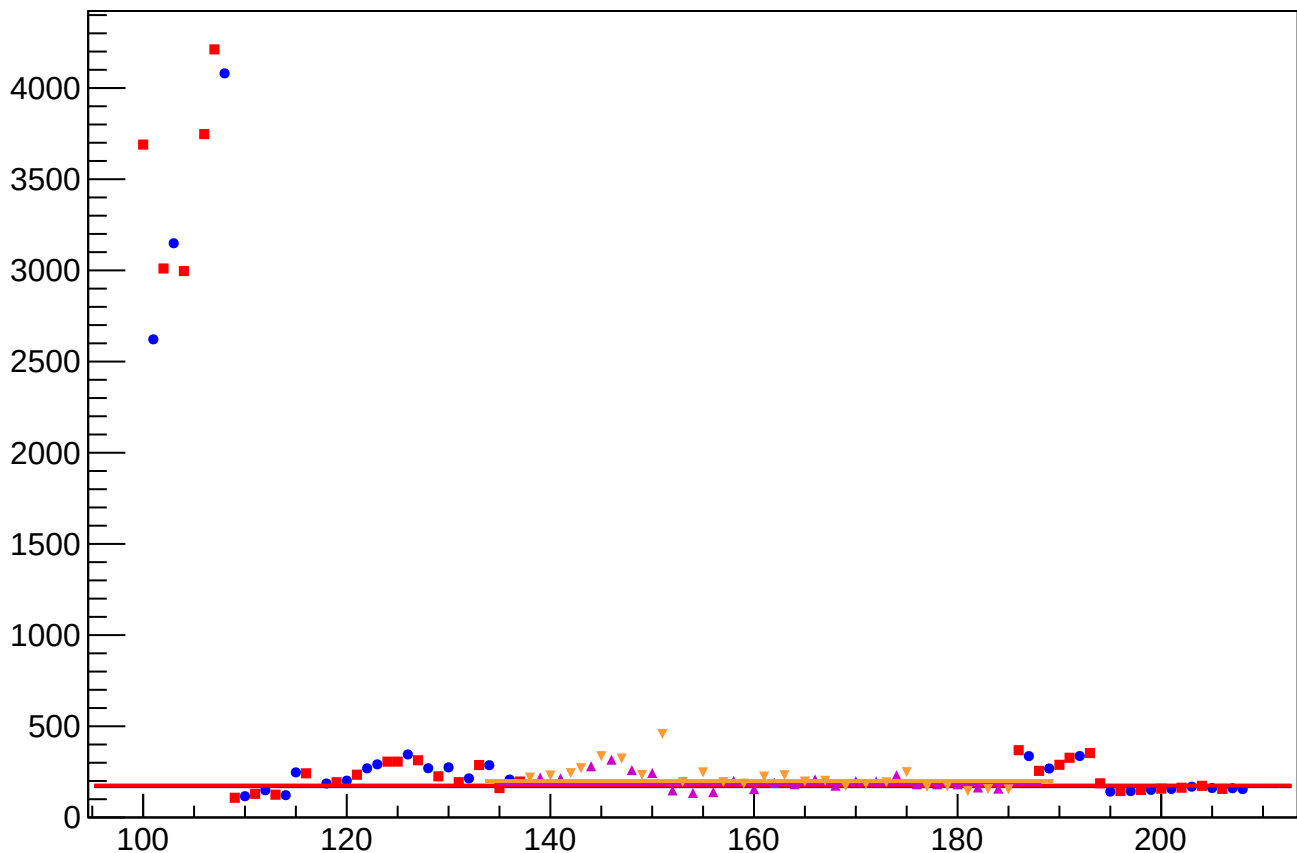
Right: -46.944 $\pm$ 35.505 χ^2 /NDF: 38.9/58

In: -11.083 $\pm$ 33.695 χ^2 /NDF:30.1/50

Out: -24.750 $\pm$ 34.969 χ^2 /NDF:25.7/55

All: -17.663 $\pm$ 24.264 χ^2 /NDF: 55.9/106

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.608 $\pm$ 0.035 χ^2 /NDF: 4500391.7/27

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 174.794 $\pm$ 0.036 χ^2 /NDF: 5334942.9/30

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

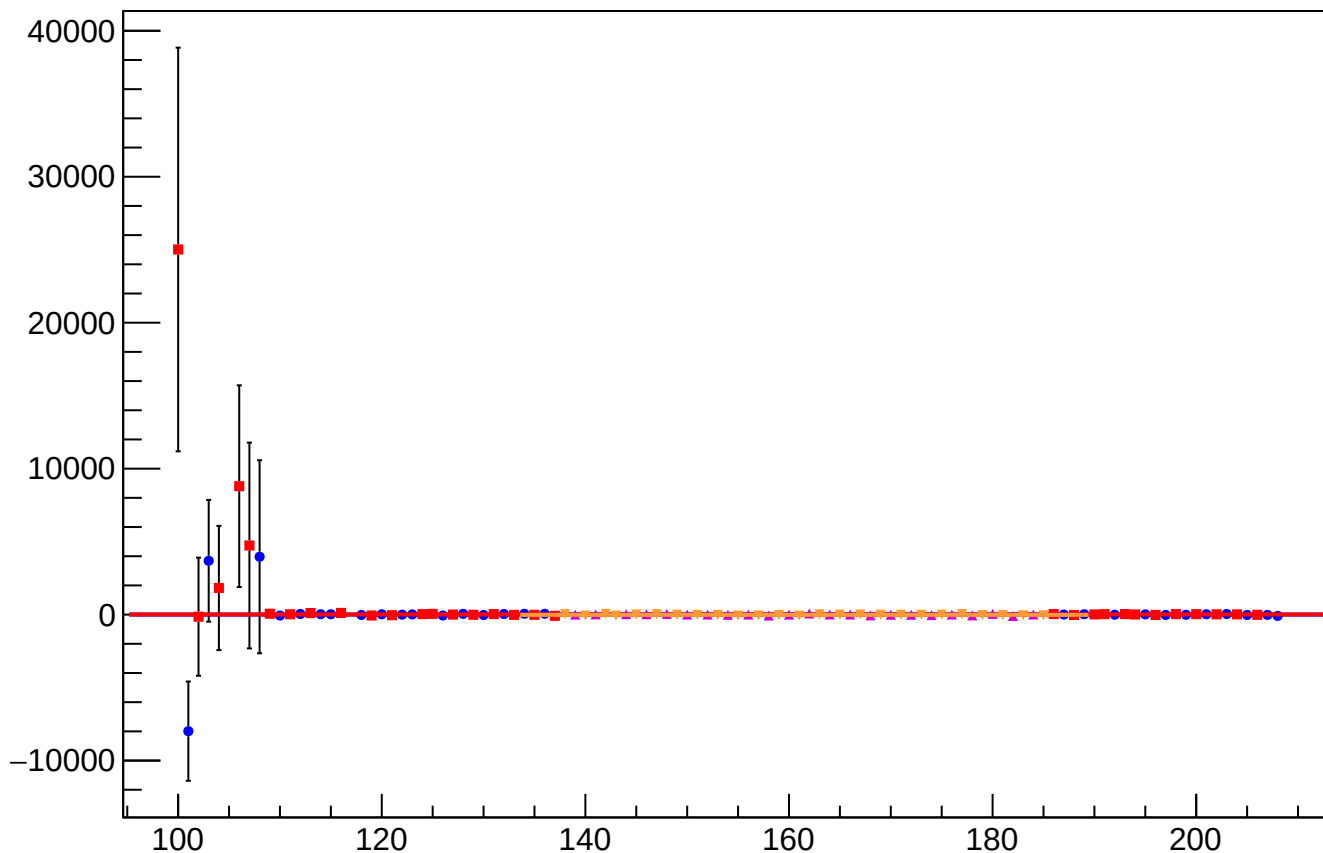
Right: 173.165 $\pm$ 0.025 χ^2 /NDF: 9839358.7/58

In: 178.310 $\pm$ 0.024 χ^2 /NDF:5991390.6/50

Out: 187.808 $\pm$ 0.025 χ^2 /NDF:7465096.2/55

All: 182.883 $\pm$ 0.017 χ^2 /NDF: 13533001.0/10

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.401 ± 7.672 $\chi^2/\text{NDF}: 30.5/27$

Left Out: -17.580 ± 6.694 $\chi^2/\text{NDF}: 22.3/24$

Right Out: 11.162 ± 7.625 $\chi^2/\text{NDF}: 30.0/30$

Left In: 1.038 ± 6.880 $\chi^2/\text{NDF}: 32.4/22$

Left: -8.527 ± 4.798 $\chi^2/\text{NDF}: 58.5/47$

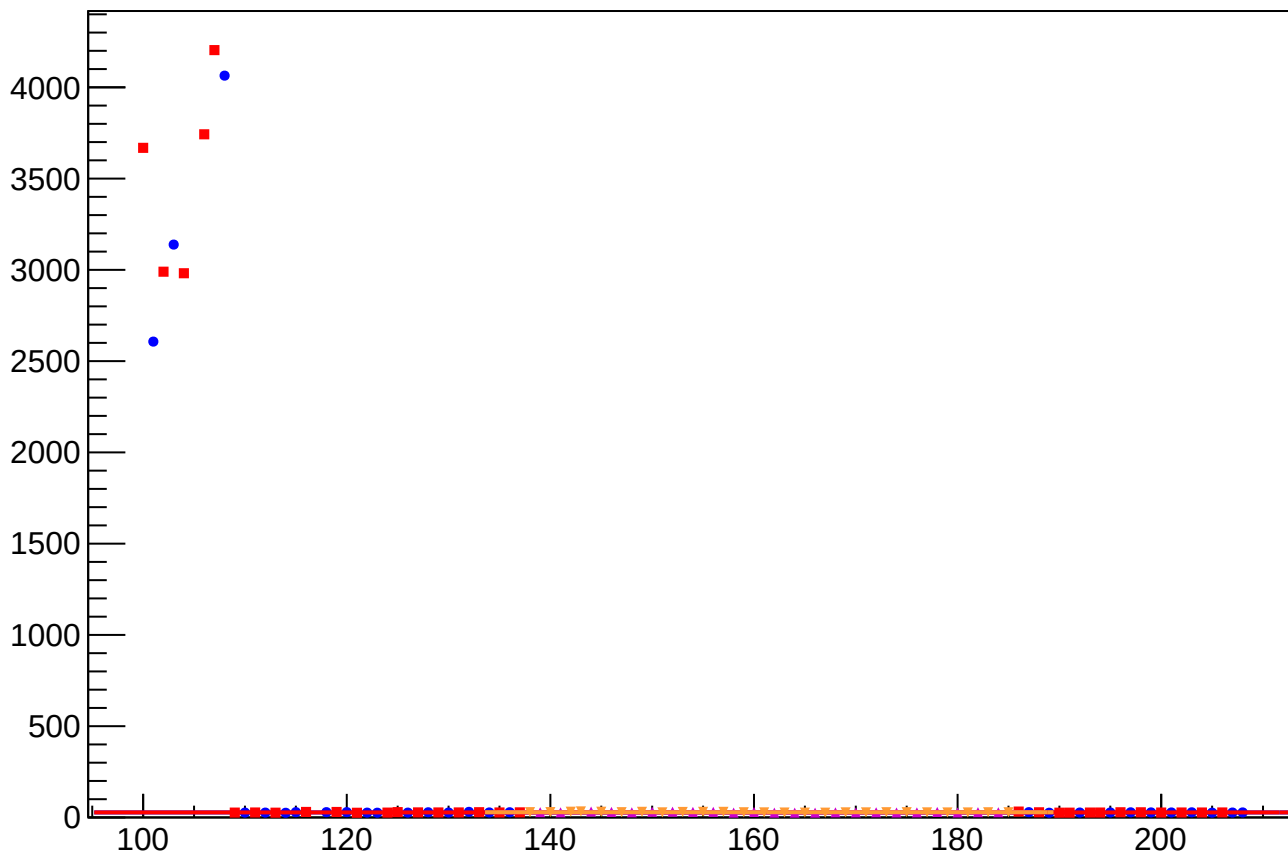
Right: 5.815 ± 5.408 $\chi^2/\text{NDF}: 61.6/58$

In: 0.754 ± 5.122 $\chi^2/\text{NDF}: 63.0/50$

Out: -5.070 ± 5.030 $\chi^2/\text{NDF}: 60.4/55$

All: -2.211 ± 3.589 $\chi^2/\text{NDF}: 124.0/106$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.511 $\pm$ 0.005 χ^2 /NDF: 3040991.8/27

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.594 $\pm$ 0.005 χ^2 /NDF: 3503326.8/30

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

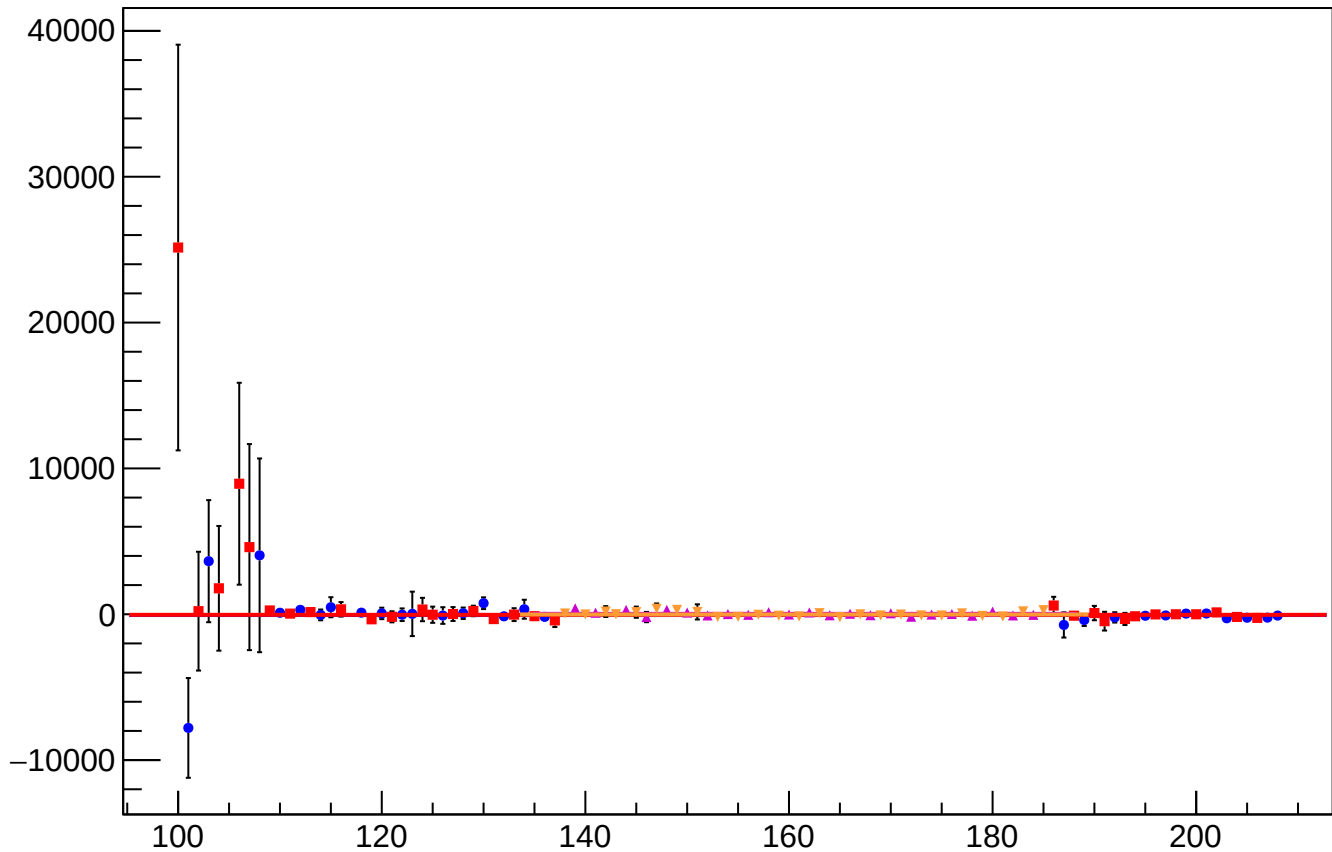
Right: 27.553 $\pm$ 0.004 χ^2 /NDF: 6544435.5/58

In: 28.155 $\pm$ 0.004 χ^2 /NDF:3191151.9/50

Out: 28.213 $\pm$ 0.004 χ^2 /NDF:3637185.0/55

All: 28.185 $\pm$ 0.003 χ^2 /NDF: 6828469.3/106

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.679 $\pm$ 49.496 χ^2 /NDF: 21.4/27

Left Out: -15.483 $\pm$ 48.109 χ^2 /NDF:8.7/24

Right Out: -39.404 $\pm$ 50.650 χ^2 /NDF: 18.3/30

Left In: 27.009 $\pm$ 45.785 χ^2 /NDF:7.8/22

Left: 6.815 $\pm$ 33.166 χ^2 /NDF: 16.9/47

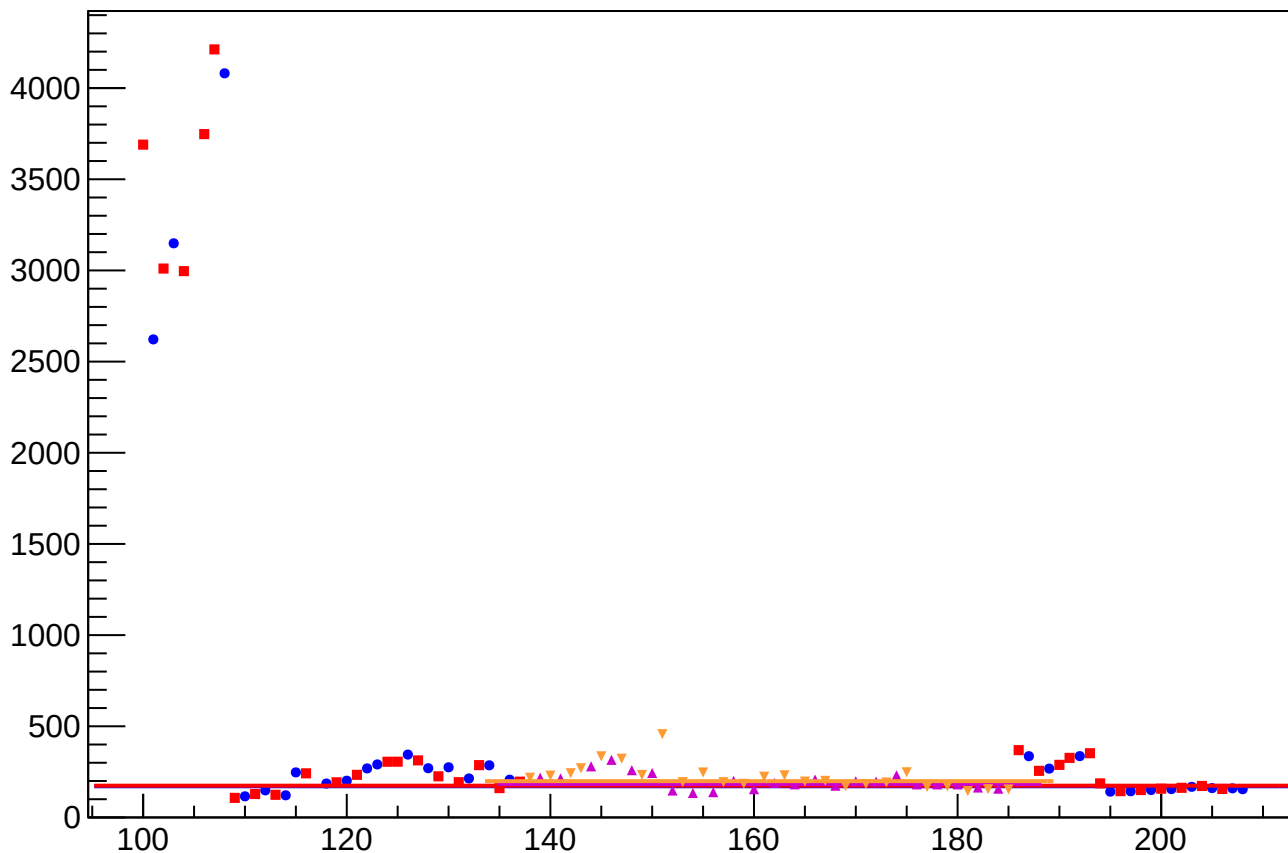
Right: -46.706 $\pm$ 35.400 χ^2 /NDF: 39.8/58

In: -10.196 $\pm$ 33.610 χ^2 /NDF:30.6/50

Out: -26.828 $\pm$ 34.882 χ^2 /NDF:27.1/55

All: -18.203 $\pm$ 24.203 χ^2 /NDF: 57.9/106

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.029 $\pm$ 0.035 χ^2 /NDF: 4513386.1/27

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 174.243 $\pm$ 0.036 χ^2 /NDF: 5352125.5/30

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

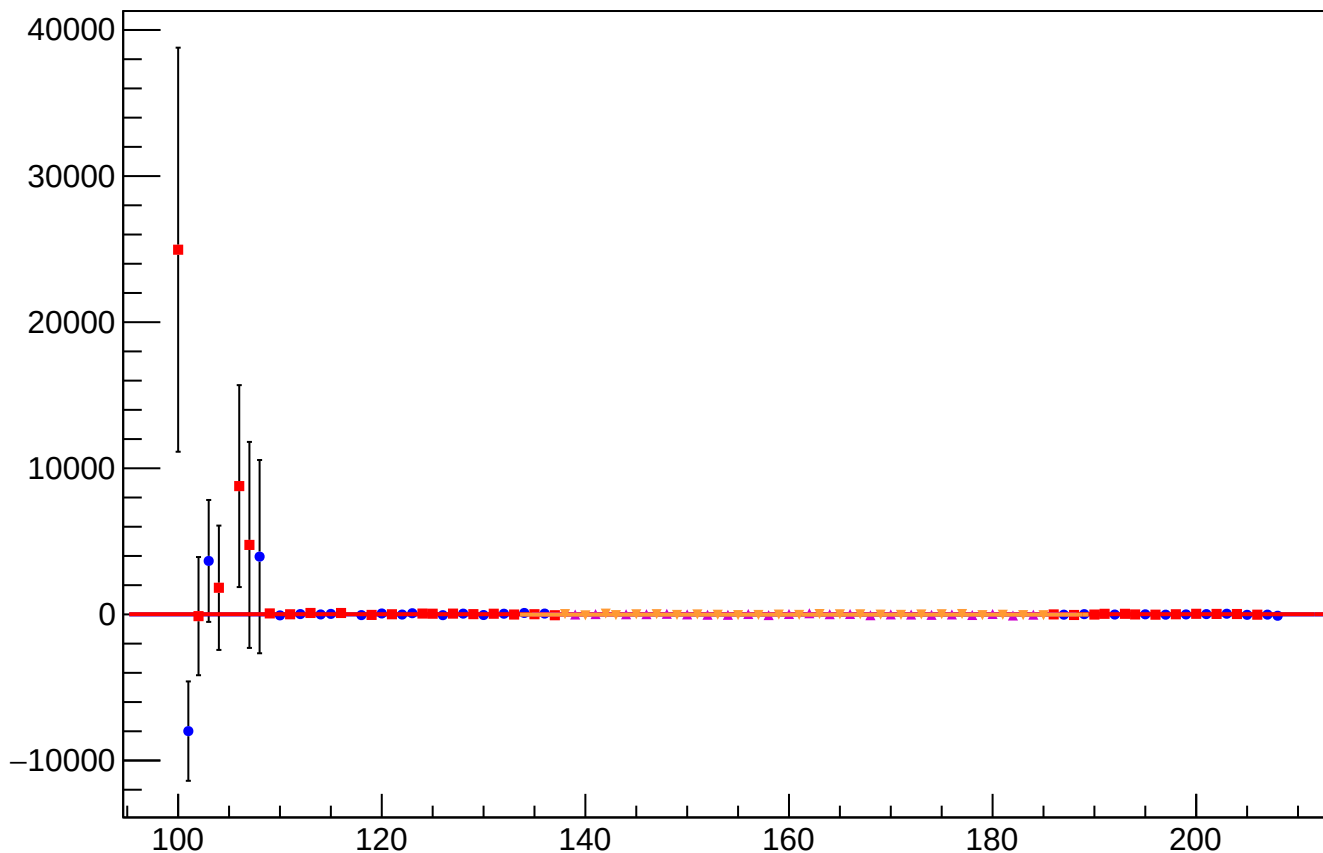
Right: 172.599 $\pm$ 0.025 χ^2 /NDF: 9869628.7/58

In: 177.840 $\pm$ 0.024 χ^2 /NDF:6006546.2/50

Out: 187.307 $\pm$ 0.025 χ^2 /NDF:7485585.1/55

All: 182.398 $\pm$ 0.017 χ^2 /NDF: 13568528.8/10

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.763 ± 7.647 χ^2/NDF : 34.5/27

Left Out: -15.006 ± 6.723 χ^2/NDF : 17.5/24

Right Out: 14.280 ± 7.615 χ^2/NDF : 26.4/30

Left In: -0.702 ± 6.909 χ^2/NDF : 26.4/22

Left: -8.049 ± 4.819 χ^2/NDF : 46.0/47

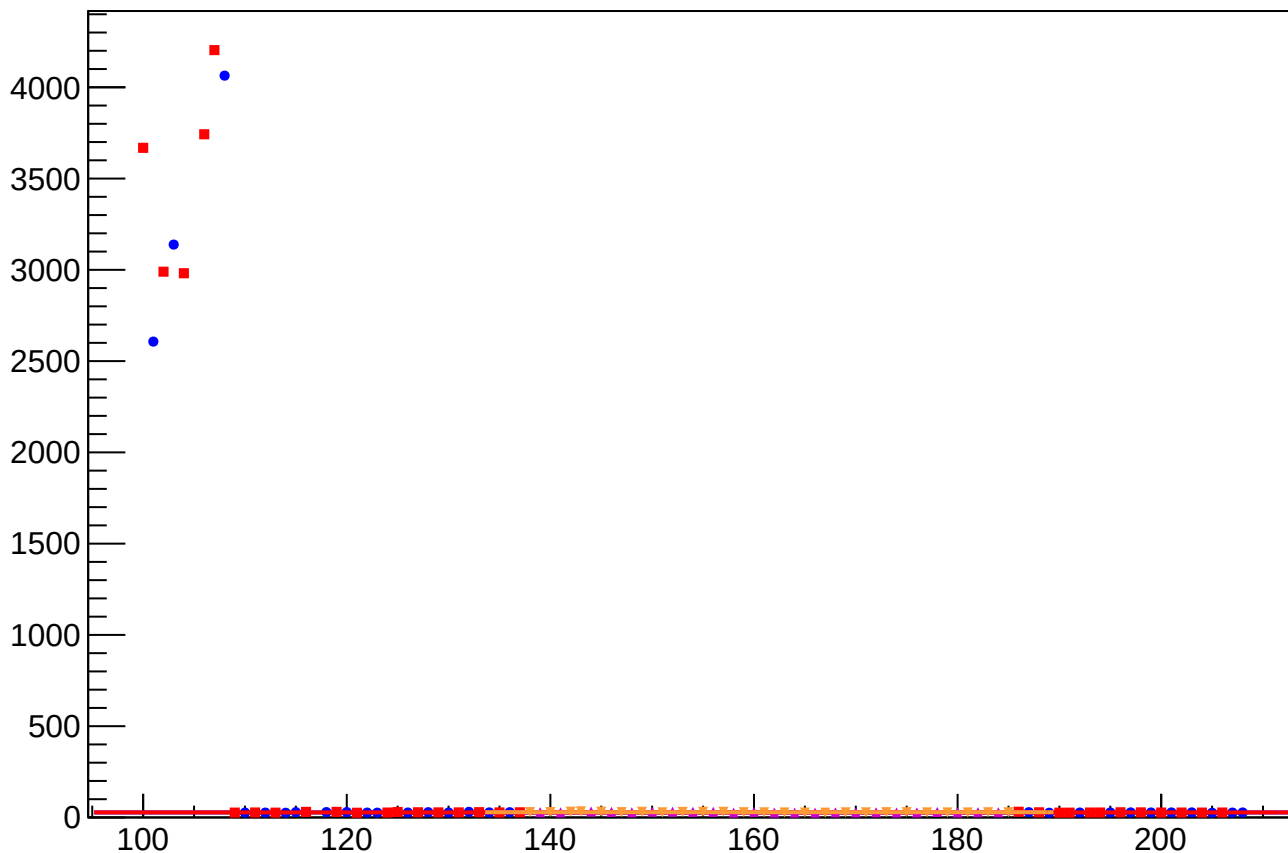
Right: 6.292 ± 5.396 χ^2/NDF : 63.1/58

In: -1.179 ± 5.127 χ^2/NDF : 60.9/50

Out: -2.178 ± 5.040 χ^2/NDF : 52.2/55

All: -1.687 ± 3.594 χ^2/NDF : 113.1/106

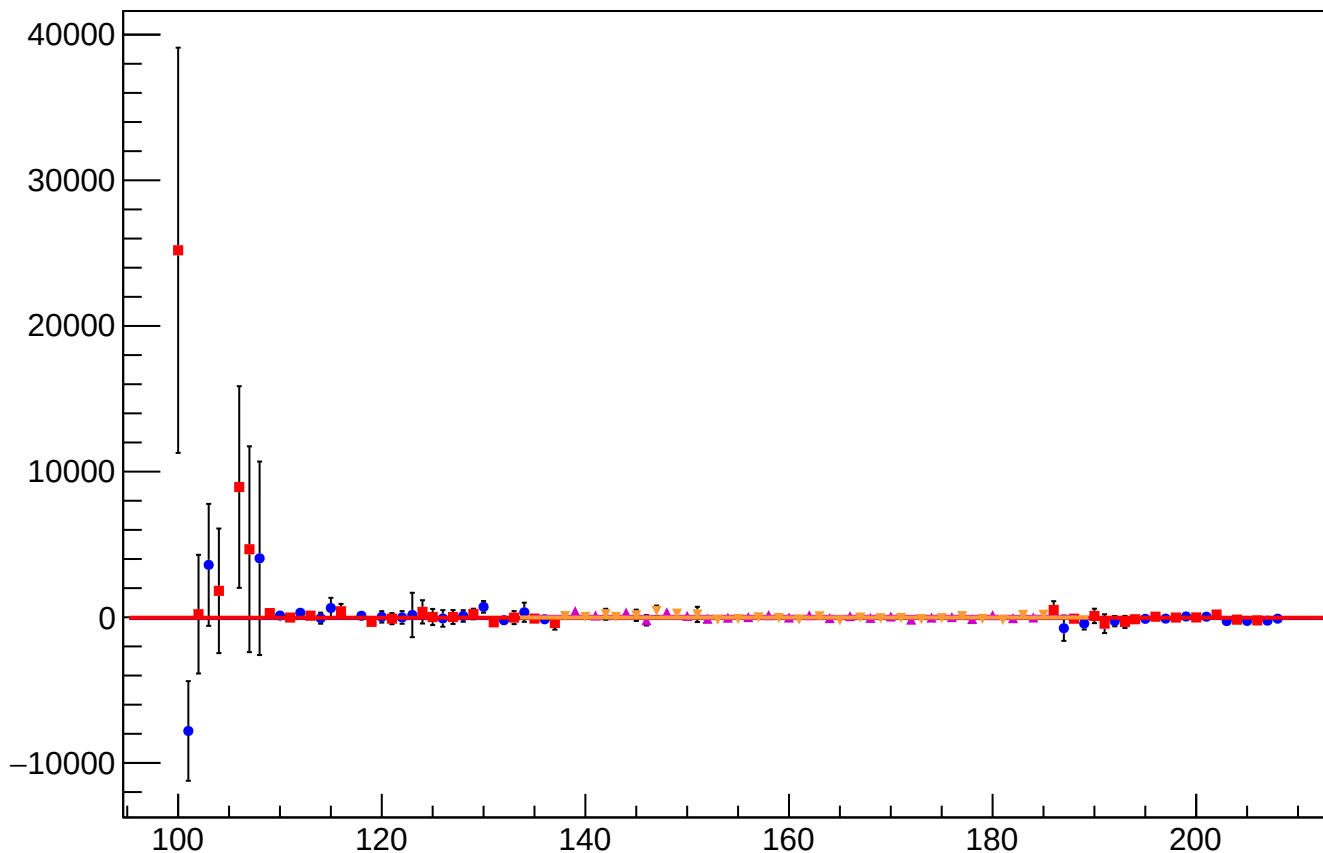
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.418 $\pm$ 0.005 χ^2 /NDF: 3047217.2/27
 Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24
 Right Out: 27.558 $\pm$ 0.005 χ^2 /NDF: 3503622.2/30
 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: 27.488 $\pm$ 0.004 χ^2 /NDF: 6551174.8/58
 In: 28.175 $\pm$ 0.004 χ^2 /NDF: 3212174.1/50
 Out: 28.263 $\pm$ 0.004 χ^2 /NDF: 3656111.1/55
 All: 28.220 $\pm$ 0.003 χ^2 /NDF: 6868586.5/106

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.946 $\pm$ 49.838 χ^2 /NDF: 21.7/27

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -30.333 $\pm$ 51.033 χ^2 /NDF: 17.4/30

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

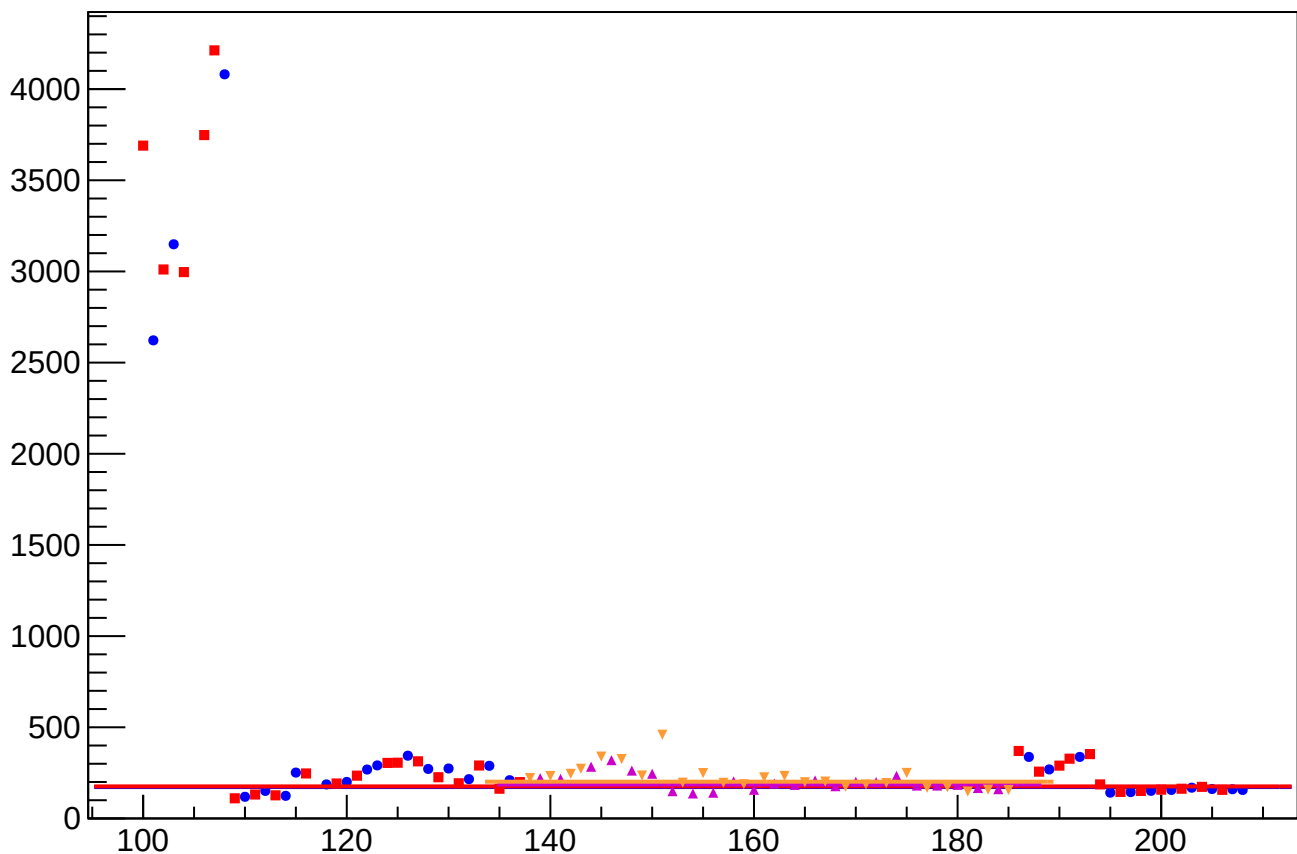
Right: -43.443 $\pm$ 35.655 χ^2 /NDF: 39.1/58

In: -9.242 $\pm$ 33.944 χ^2 /NDF:31.5/50

Out: -22.593 $\pm$ 35.227 χ^2 /NDF:25.4/55

All: -15.670 $\pm$ 24.443 χ^2 /NDF: 56.9/106

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.313+/-0.035 χ^2/NDF : 4482371.5/27

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 175.796+/-0.036 χ^2/NDF : 5292813.4/30

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

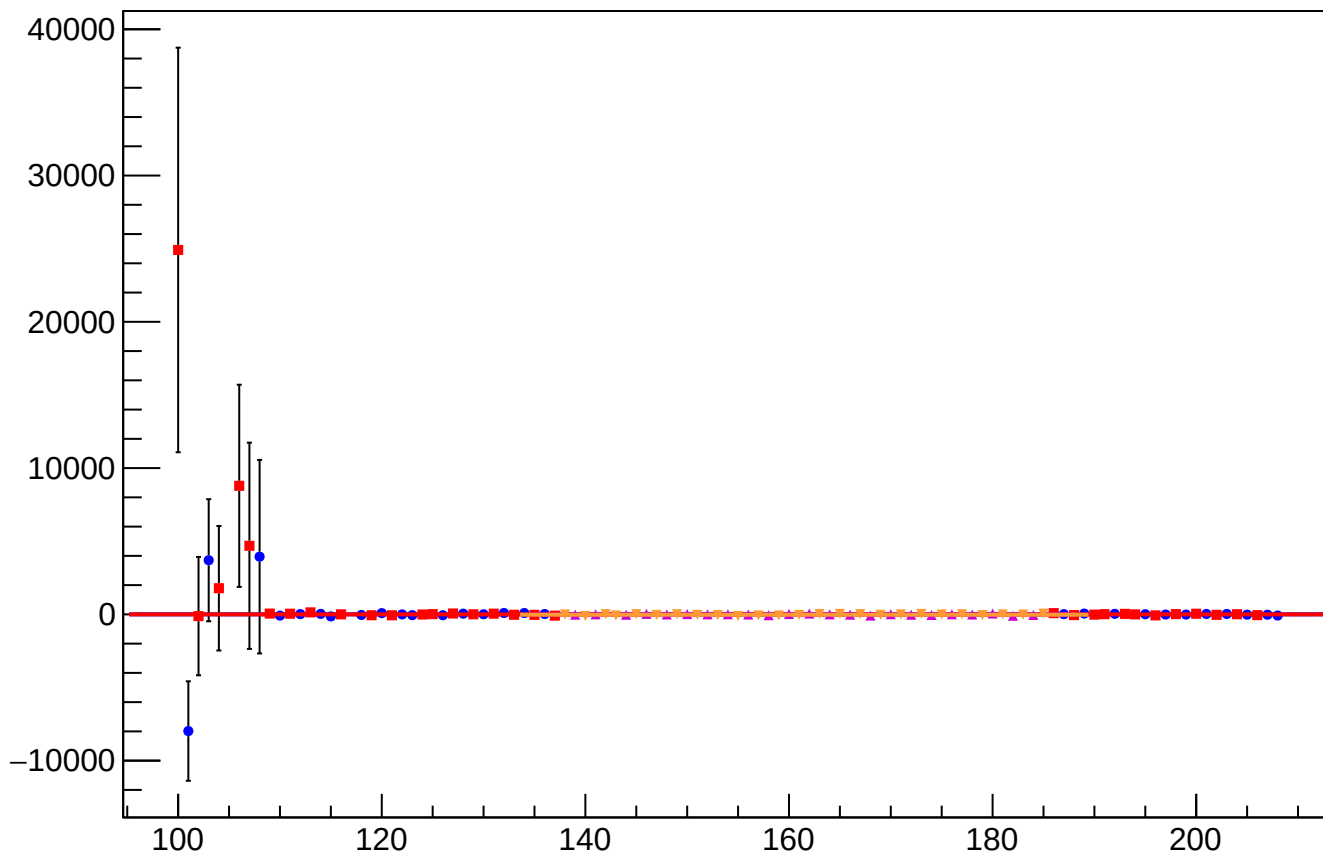
Right: 174.013+/-0.025 χ^2/NDF : 9779953.9/58

In: 179.708+/-0.024 χ^2/NDF :5955837.3/50

Out: 189.304+/-0.025 χ^2/NDF :7417949.0/55

All: 184.328+/-0.017 χ^2/NDF : 13450747.3/10

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.465+/-9.331 χ^2/NDF : 28.2/27

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 0.596+/-9.278 χ^2/NDF : 34.5/30

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

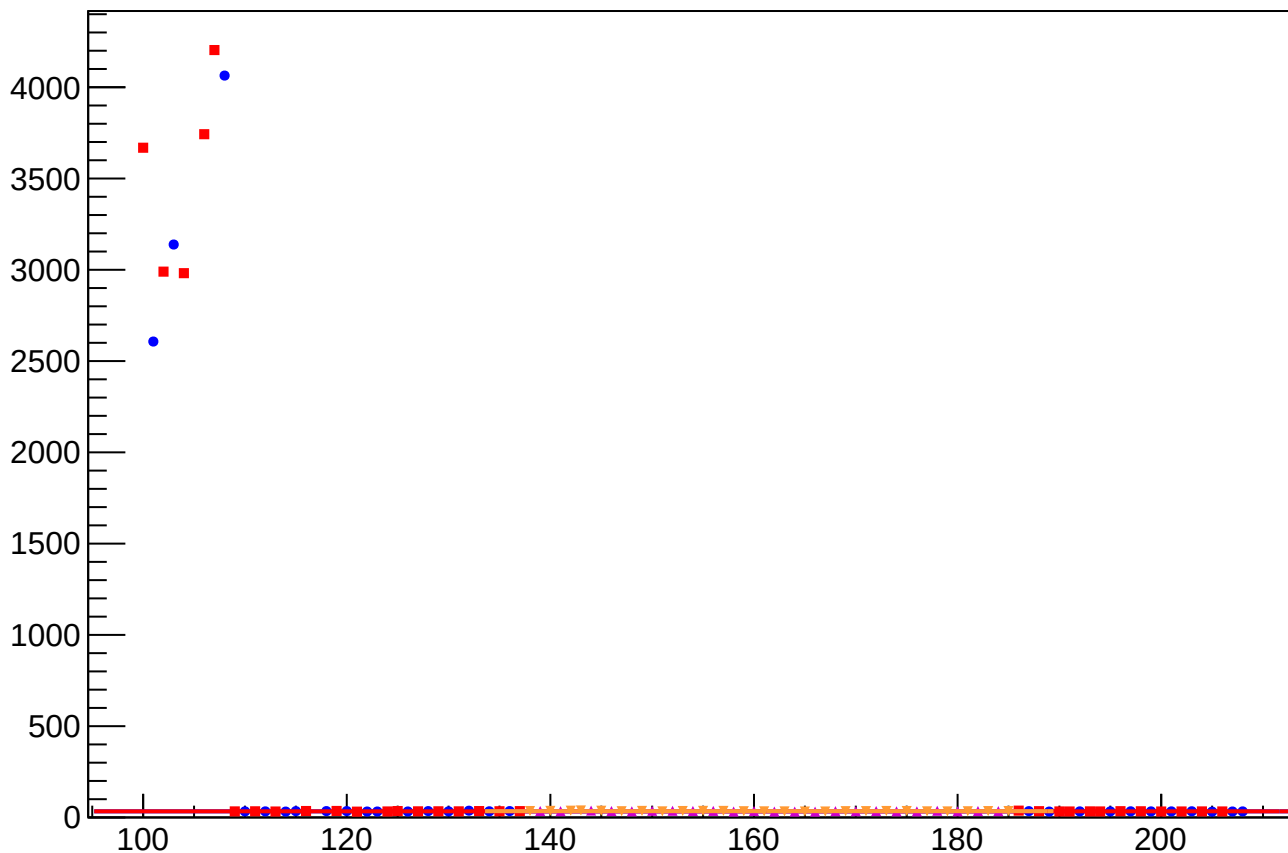
Right: 2.022+/-6.579 χ^2/NDF : 62.7/58

In: -1.815+/-6.205 χ^2/NDF : 49.9/50

Out: -13.050+/-6.087 χ^2/NDF : 64.1/55

All: -7.541+/-4.345 χ^2/NDF : 115.7/106

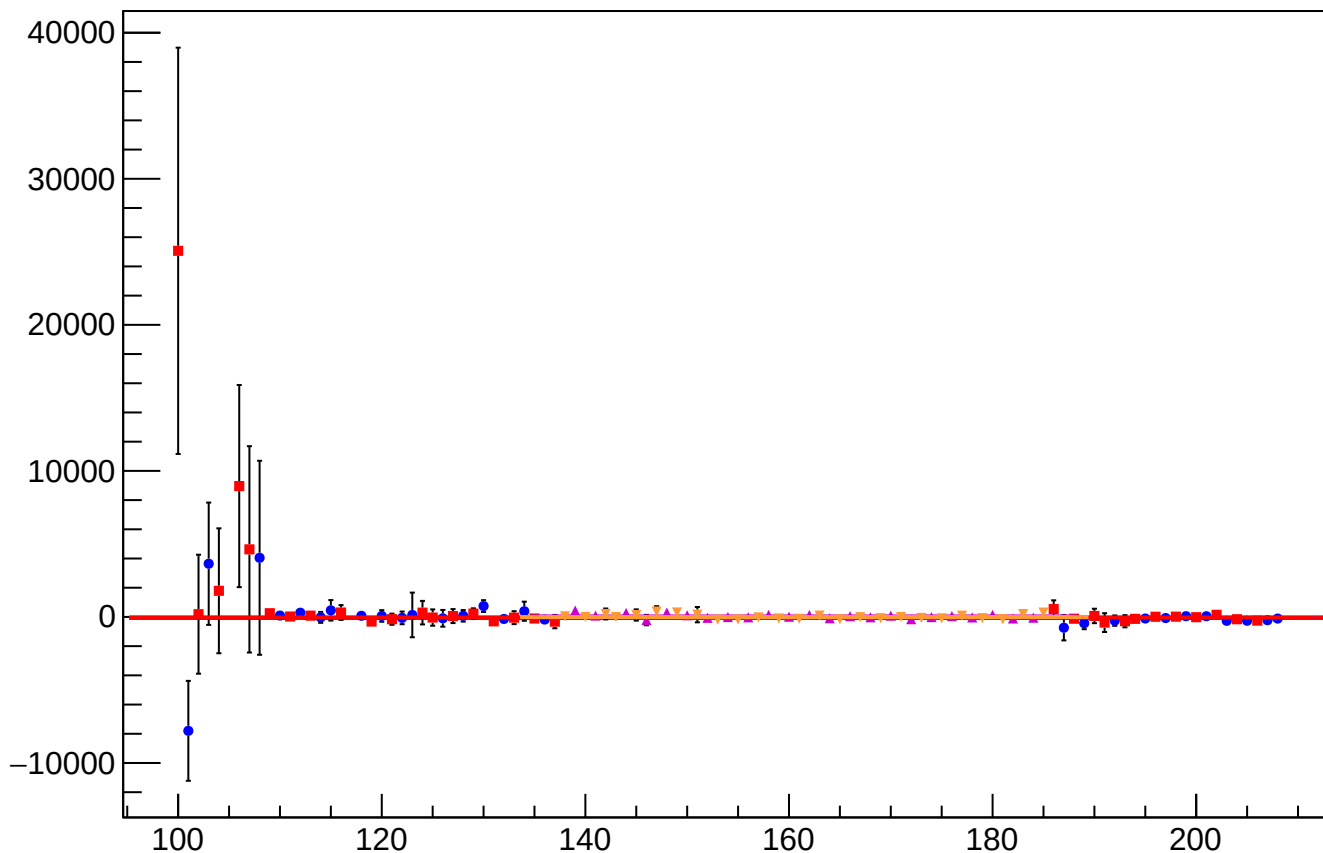
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.479+/-0.007 χ^2/NDF : 3019090.9/27
 Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24
 Right Out: 33.623+/-0.007 χ^2/NDF : 3467551.3/30
 Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47
 Right: 33.551+/-0.005 χ^2/NDF : 6486879.7/58
 In: 34.152+/-0.004 χ^2/NDF : 3098031.9/50
 Out: 34.188+/-0.004 χ^2/NDF : 3538513.4/55
 All: 34.170+/-0.003 χ^2/NDF : 6636579.1/106

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.413 $\pm$ 49.690 χ^2 /NDF: 21.3/27

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: -36.562 $\pm$ 50.833 χ^2 /NDF: 16.3/30

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

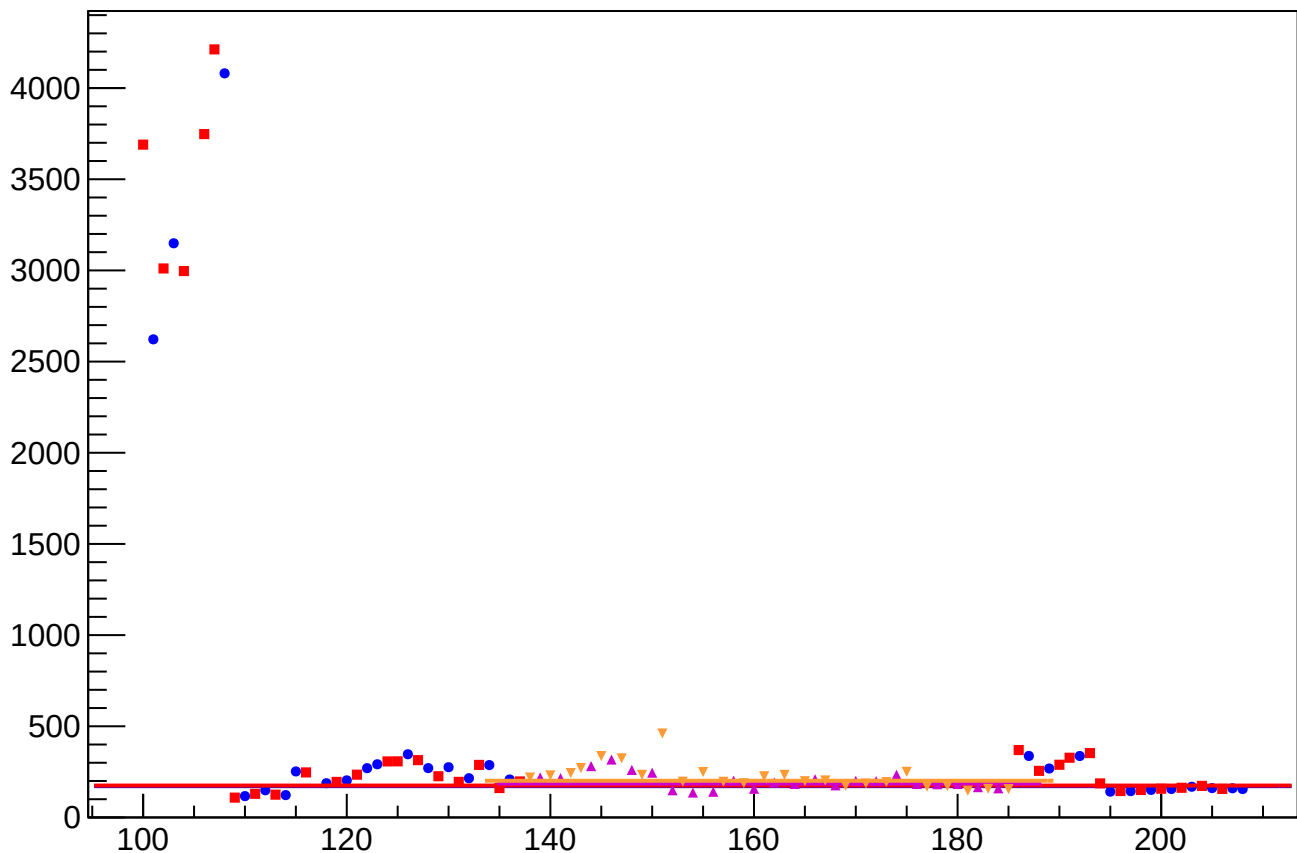
Right: -48.247 $\pm$ 35.533 χ^2 /NDF: 37.7/58

In: -9.340 $\pm$ 33.873 χ^2 /NDF:30.6/50

Out: -22.123 $\pm$ 35.134 χ^2 /NDF:25.0/55

All: -15.498 $\pm$ 24.385 χ^2 /NDF: 55.7/106

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.710 $\pm$ 0.035 χ^2 /NDF: 4511260.8/27

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 174.923 $\pm$ 0.036 χ^2 /NDF: 5341665.9/30

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

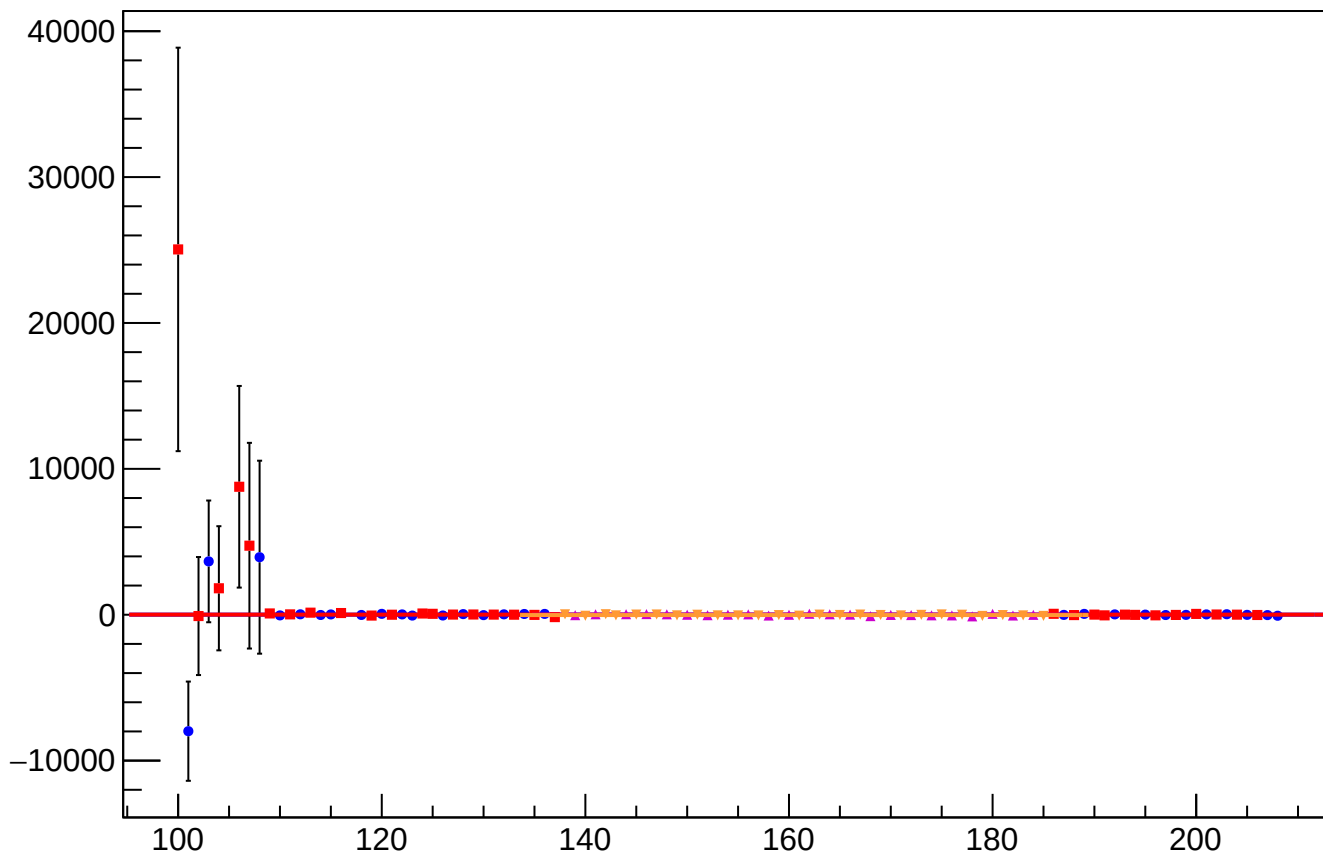
Right: 173.280 $\pm$ 0.025 χ^2 /NDF: 9857012.4/58

In: 179.281 $\pm$ 0.024 χ^2 /NDF:5979775.4/50

Out: 188.698 $\pm$ 0.025 χ^2 /NDF:7473979.1/55

All: 183.817 $\pm$ 0.017 χ^2 /NDF: 13528209.0/10

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.168+/-8.449 χ^2/NDF : 23.0/27

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 7.372+/-8.404 χ^2/NDF : 37.3/30

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

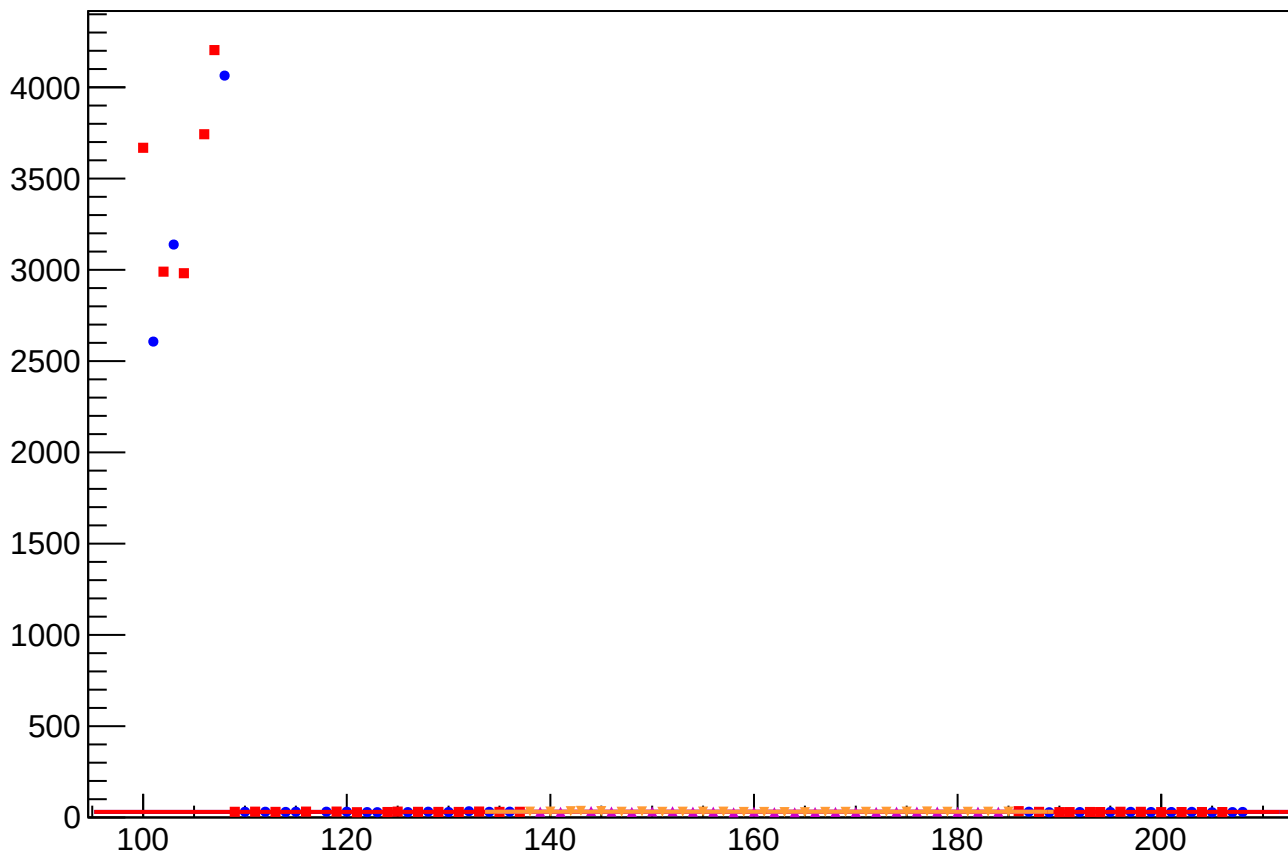
Right: 6.276+/-5.958 χ^2/NDF : 60.3/58

In: -1.010+/-5.630 χ^2/NDF :62.3/50

Out: -9.788+/-5.528 χ^2/NDF :63.4/55

All: -5.479+/-3.944 χ^2/NDF : 126.9/106

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.304+/-0.006 χ^2/NDF : 3036449.1/27

Left Out: 31.482+/-0.005 χ^2/NDF : 82437.2/24

Right Out: 30.431+/-0.006 χ^2/NDF : 3483907.8/30

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

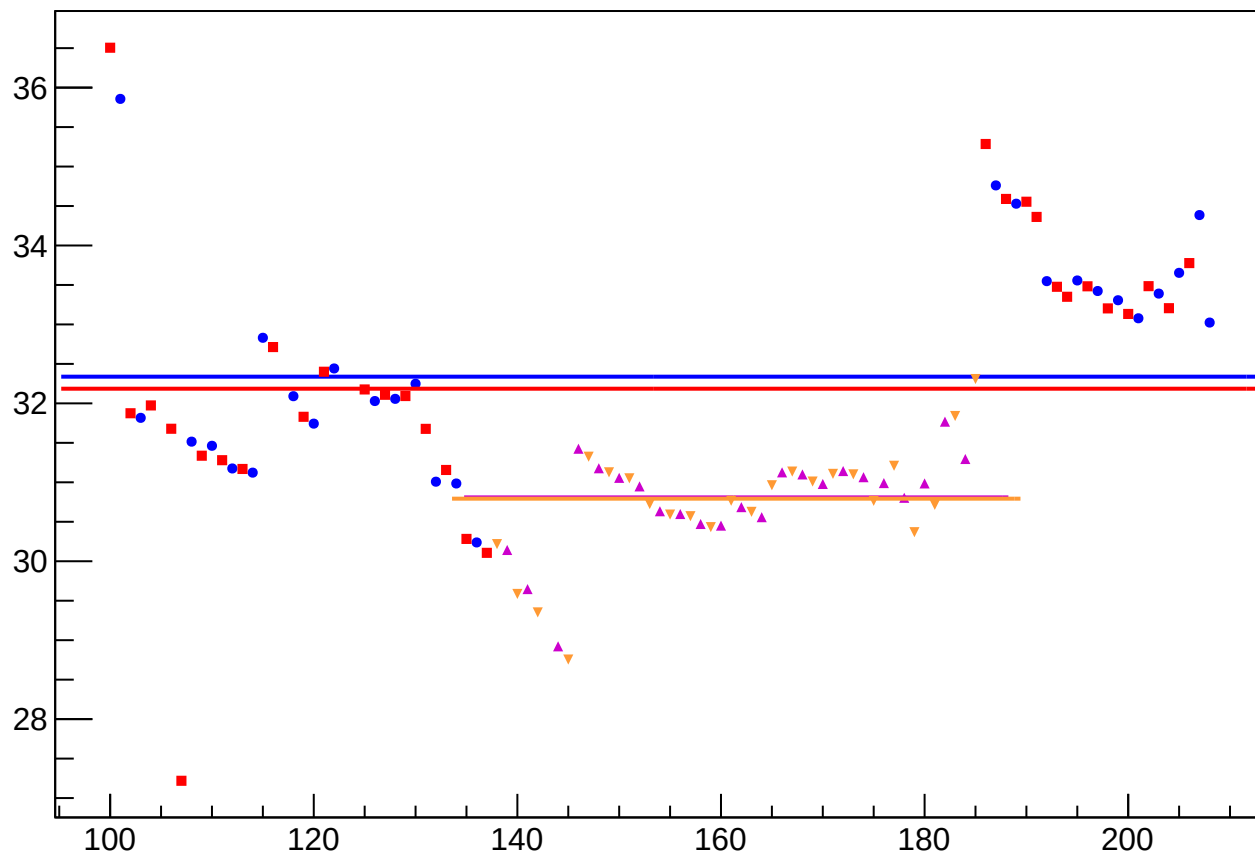
Right: 30.368+/-0.004 χ^2/NDF : 6520582.1/58

In: 30.960+/-0.004 χ^2/NDF : 3146132.3/50

Out: 31.027+/-0.004 χ^2/NDF : 3584094.1/55

All: 30.994+/-0.003 χ^2/NDF : 6730368.1/106

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.338+/-0.000 χ^2/NDF : 2810307012.4/26

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.186+/-0.000 χ^2/NDF : 2332287518.2/29

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

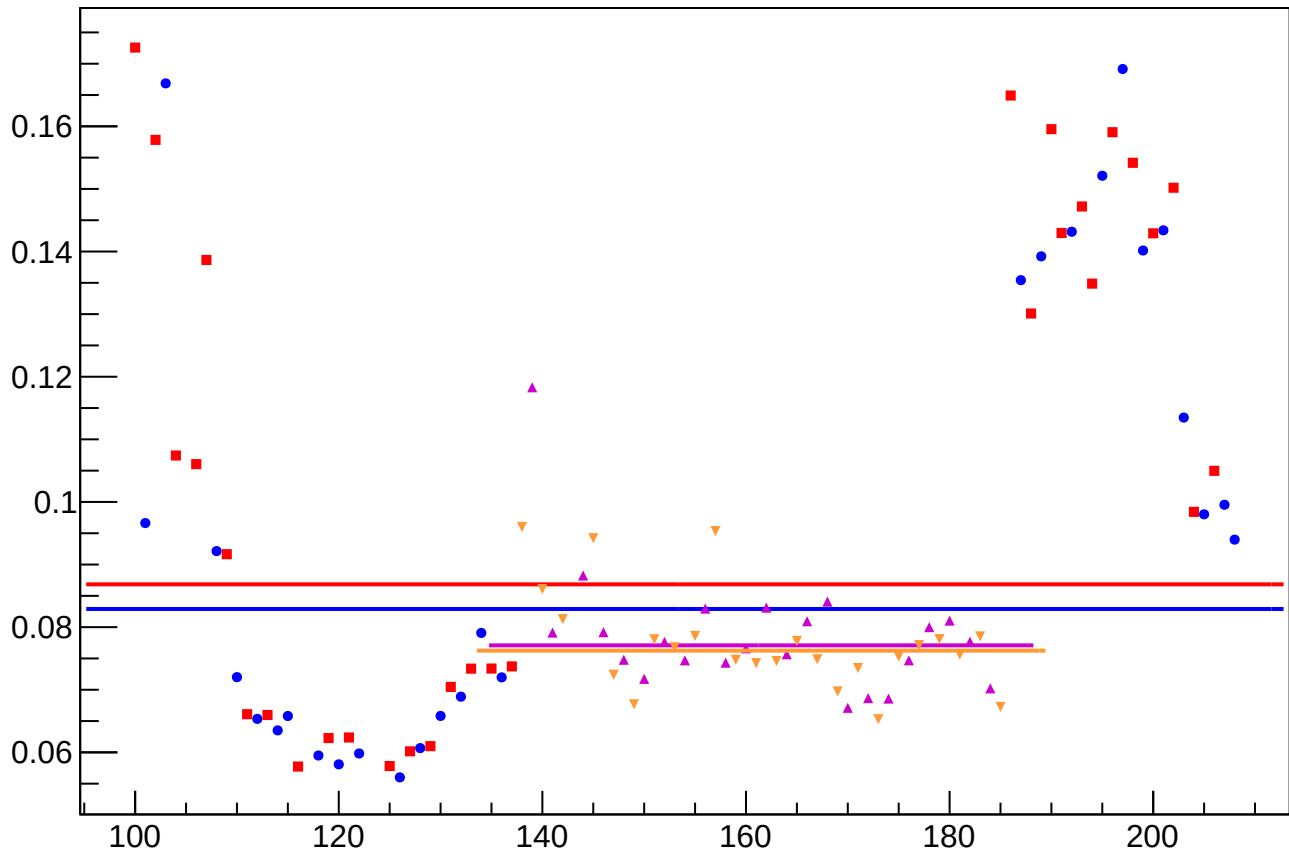
Right: 32.264+/-0.000 χ^2/NDF : 5162140662.6/56

In: 31.413+/-0.000 χ^2/NDF : 6092166882.3/49

Out: 31.310+/-0.000 χ^2/NDF : 5327000388.6/53

All: 31.361+/-0.000 χ^2/NDF : 11442506916.5

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.083+/-0.000 χ^2/NDF : 3136041.4/26

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.087+/-0.000 χ^2/NDF : 3605774.3/29

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

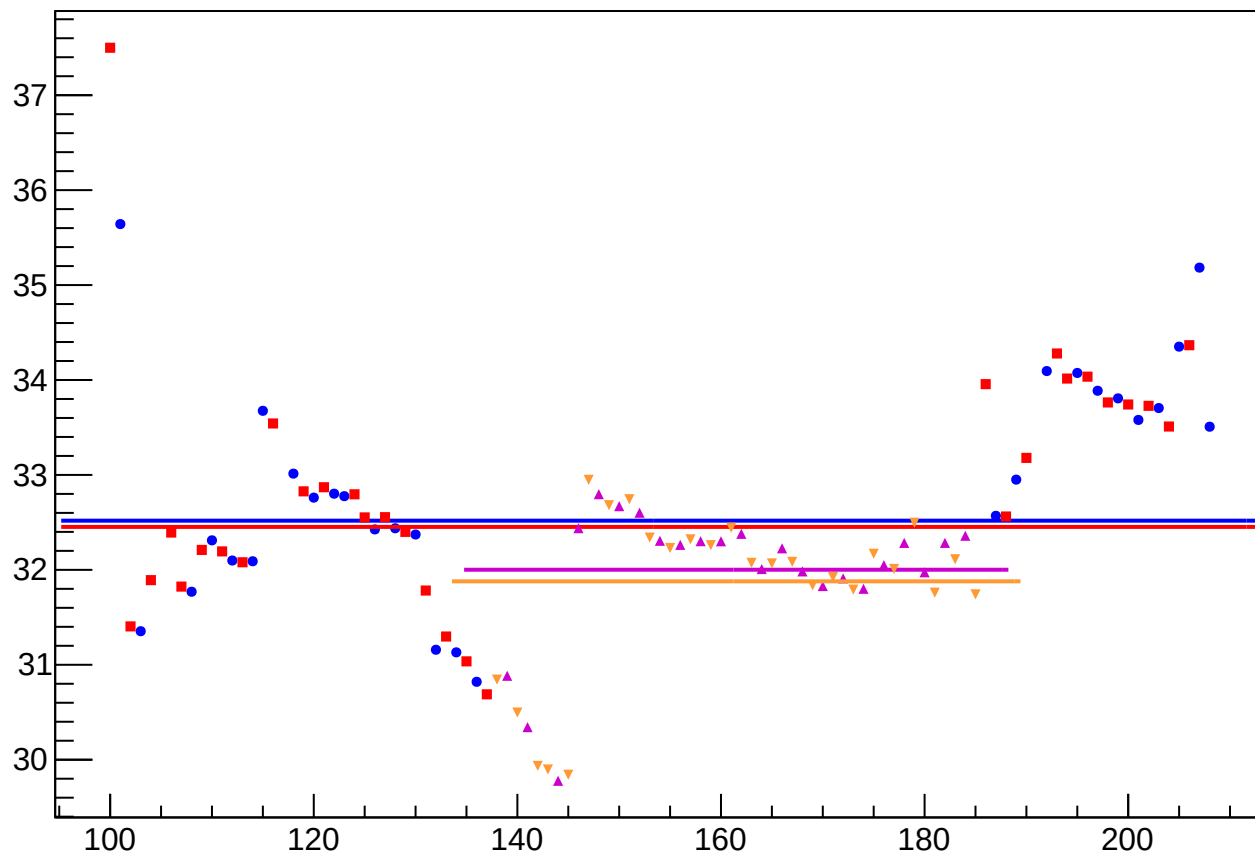
Right: 0.085+/-0.000 χ^2/NDF : 6767818.6/56

In: 0.079+/-0.000 χ^2/NDF : 3532995.9/49

Out: 0.080+/-0.000 χ^2/NDF : 4113249.1/53

All: 0.080+/-0.000 χ^2/NDF : 7649006.5/103

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.518+/-0.000 χ^2/NDF : 1516912268.4/27

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.452+/-0.000 χ^2/NDF : 862401173.5/29

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

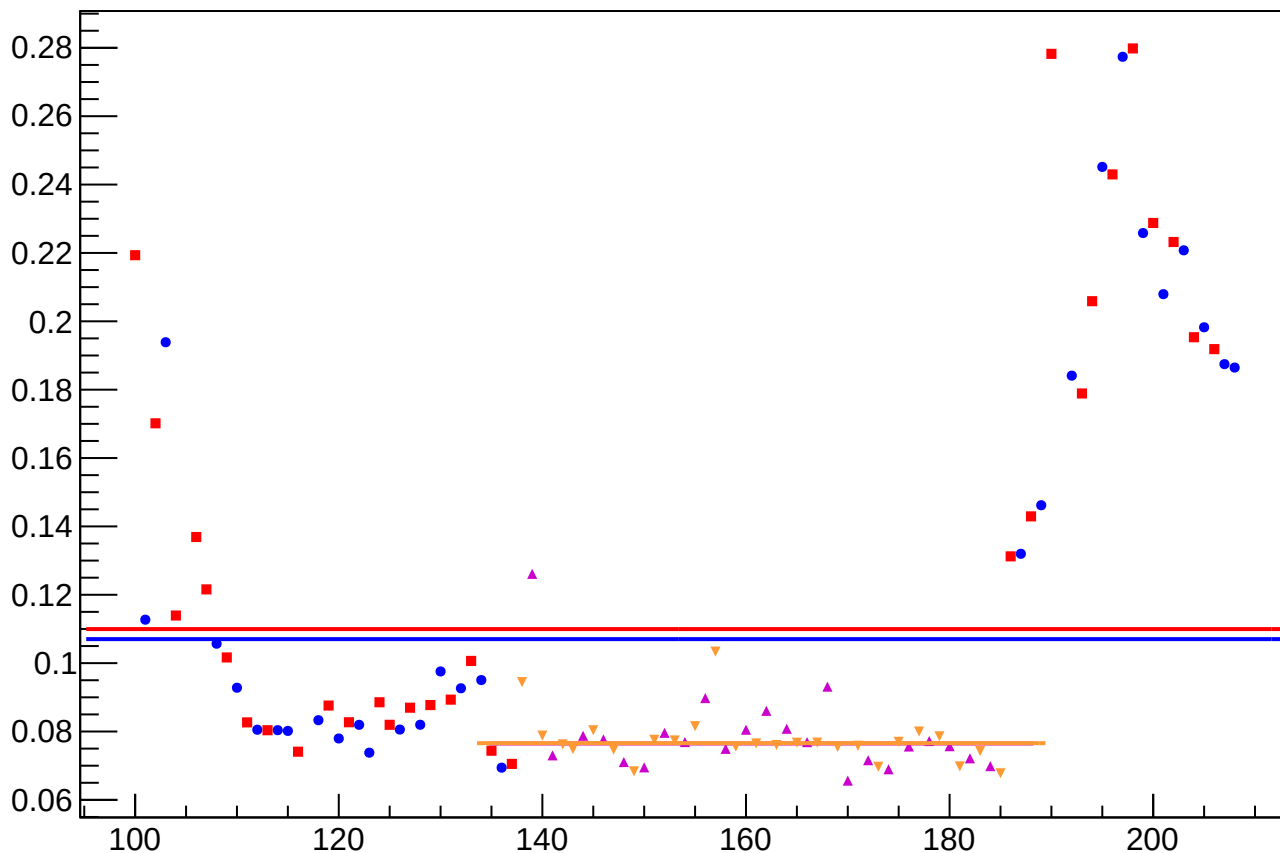
Right: 32.485+/-0.000 χ^2/NDF : 2381382521.3/57

In: 32.136+/-0.000 χ^2/NDF : 3118887993.2/50

Out: 32.023+/-0.000 χ^2/NDF : 3075237012.4/54

All: 32.078+/-0.000 χ^2/NDF : 6218311525.8/1

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.000 χ^2 /NDF: 4712799.9/27

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 4376815.9/29

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

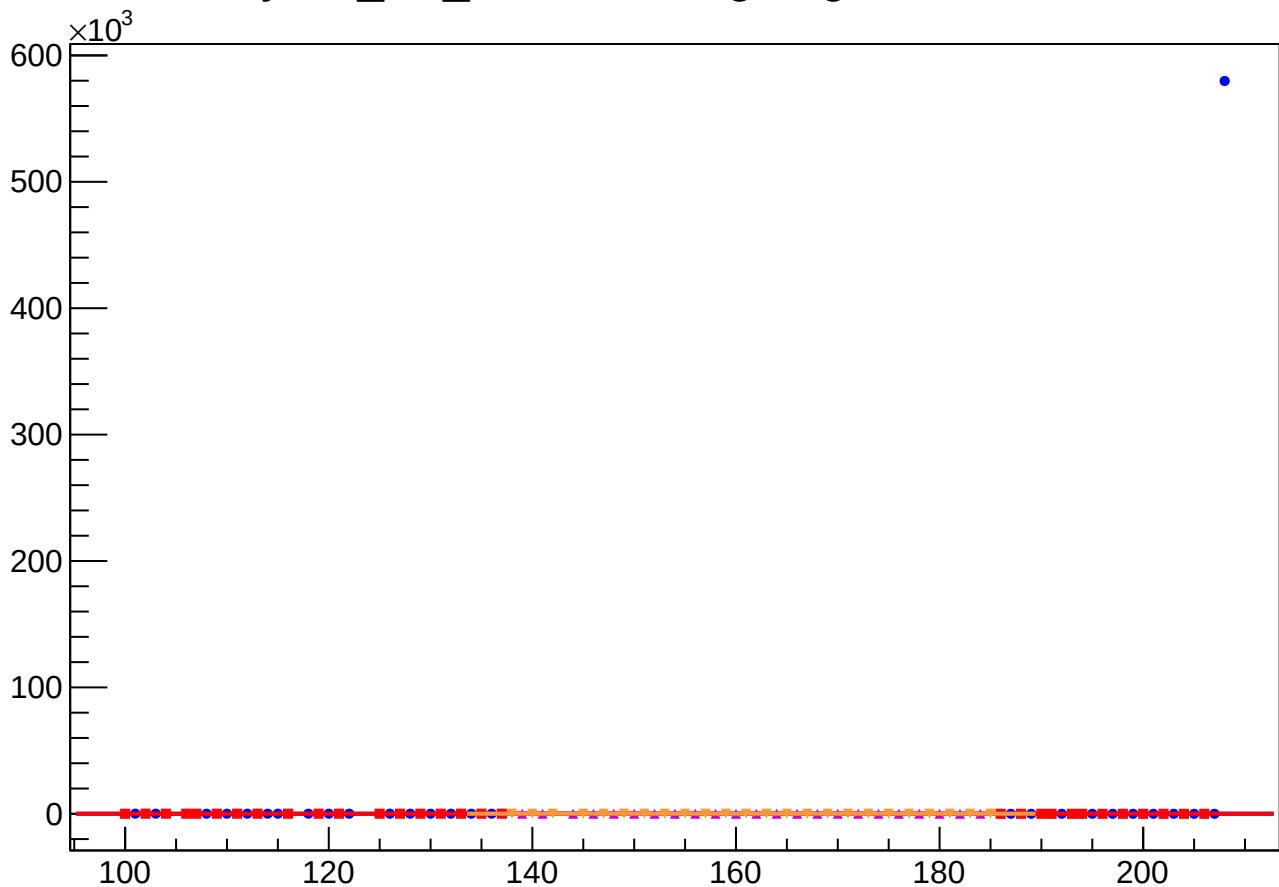
Right: 0.108 $\pm$ 0.000 χ^2 /NDF: 9097937.3/57

In: 0.084 $\pm$ 0.000 χ^2 /NDF:6478043.3/50

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:6190053.4/54

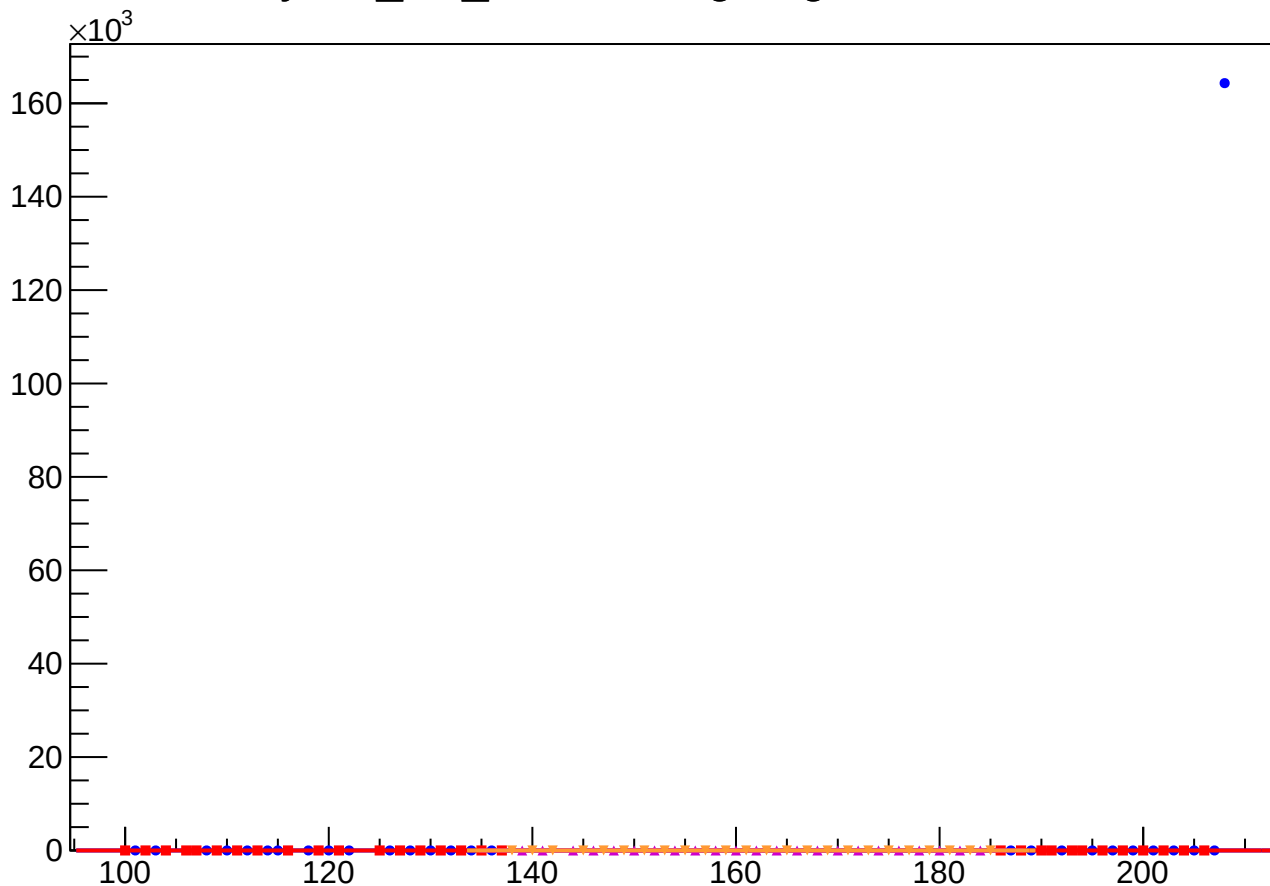
All: 0.085 $\pm$ 0.000 χ^2 /NDF: 12669029.8/105

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853517739842.3/26	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419839214152.6/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528413992773.5/29	In: 71.422+/-0.000	χ^2/NDF : 13699354552540.3/49
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306966756374.3/5
		All: 70.353+/-0.000	χ^2/NDF : 2903824698456

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2/NDF : 1830164.9/26

Left Out: 0.045 $\pm$ 0.000 χ^2/NDF : 206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2/NDF : 842763.5/29

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

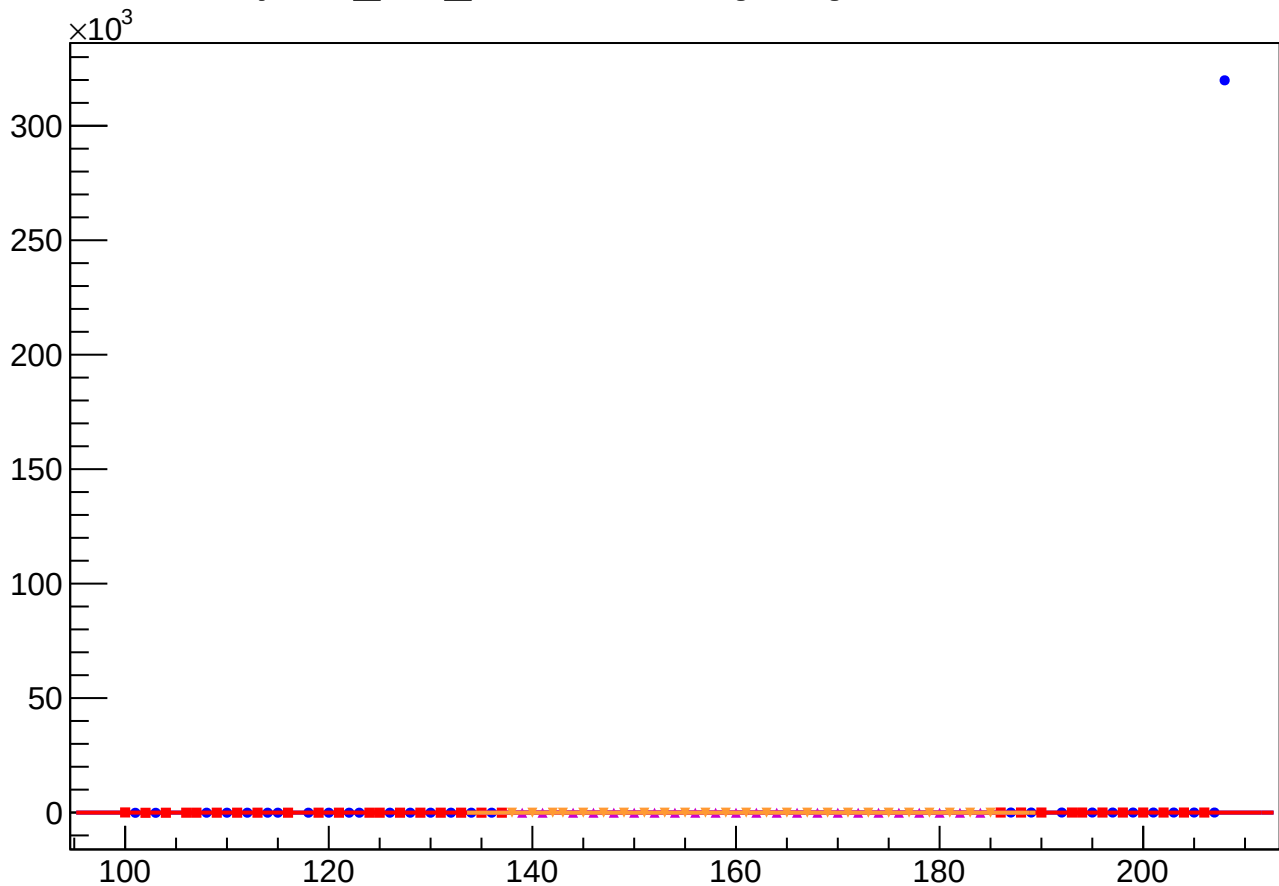
Right: 0.047 $\pm$ 0.000 χ^2/NDF : 2672932.2/56

In: 0.046 $\pm$ 0.000 χ^2/NDF : 2099479.6/49

Out: 0.046 $\pm$ 0.000 χ^2/NDF : 1069015.8/53

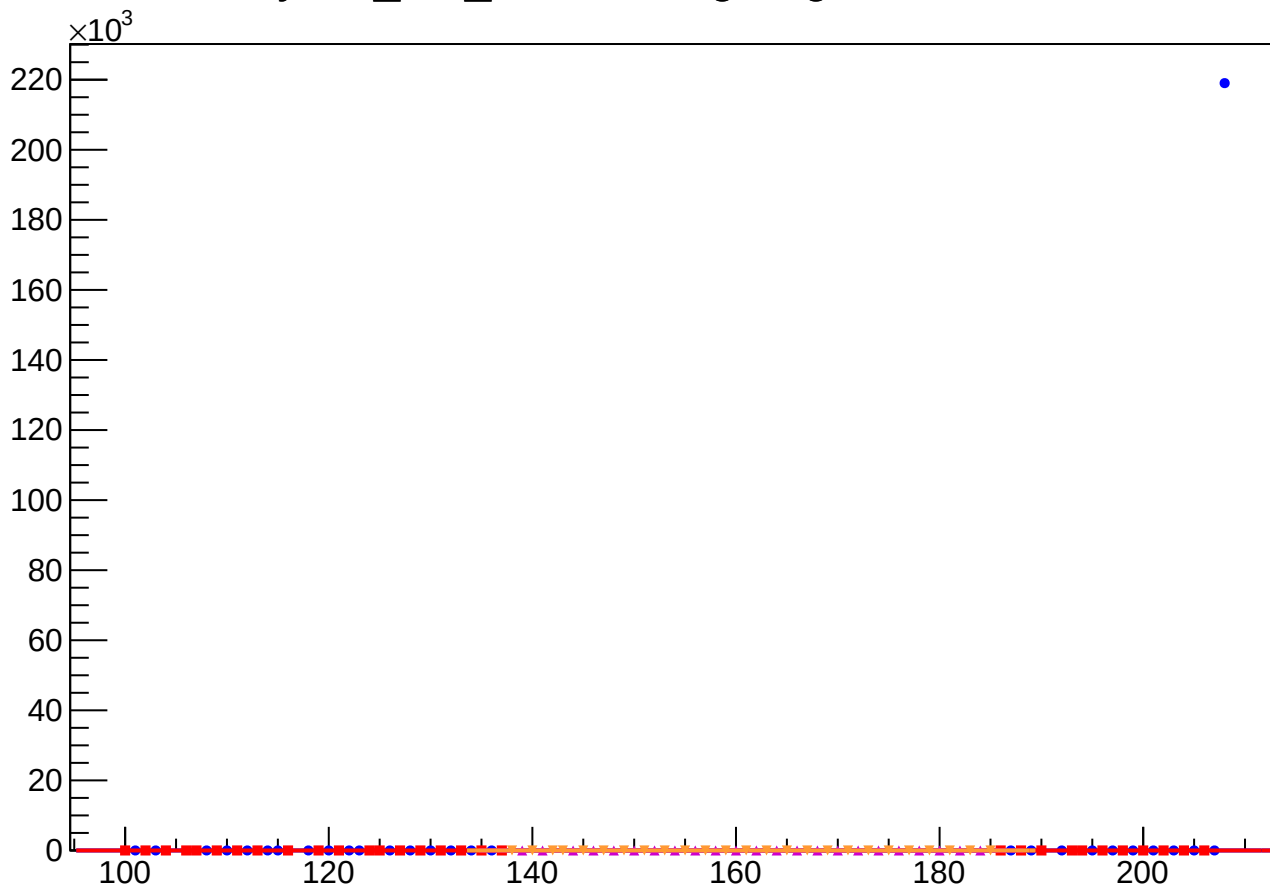
All: 0.046 $\pm$ 0.000 χ^2/NDF : 3169038.4/103

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479128717948.2/27	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -29.369+/-0.000	χ^2/NDF : 14808897775351.6
Right Out: -28.760+/-0.000	χ^2/NDF : 7325679650625.8/29	In: -50.762+/-0.000	χ^2/NDF : 11497070311965.3/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926088942045.6/
		All: -50.406+/-0.000	χ^2/NDF : 234256915839

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 1388494.2/27

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 322744.9/29

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

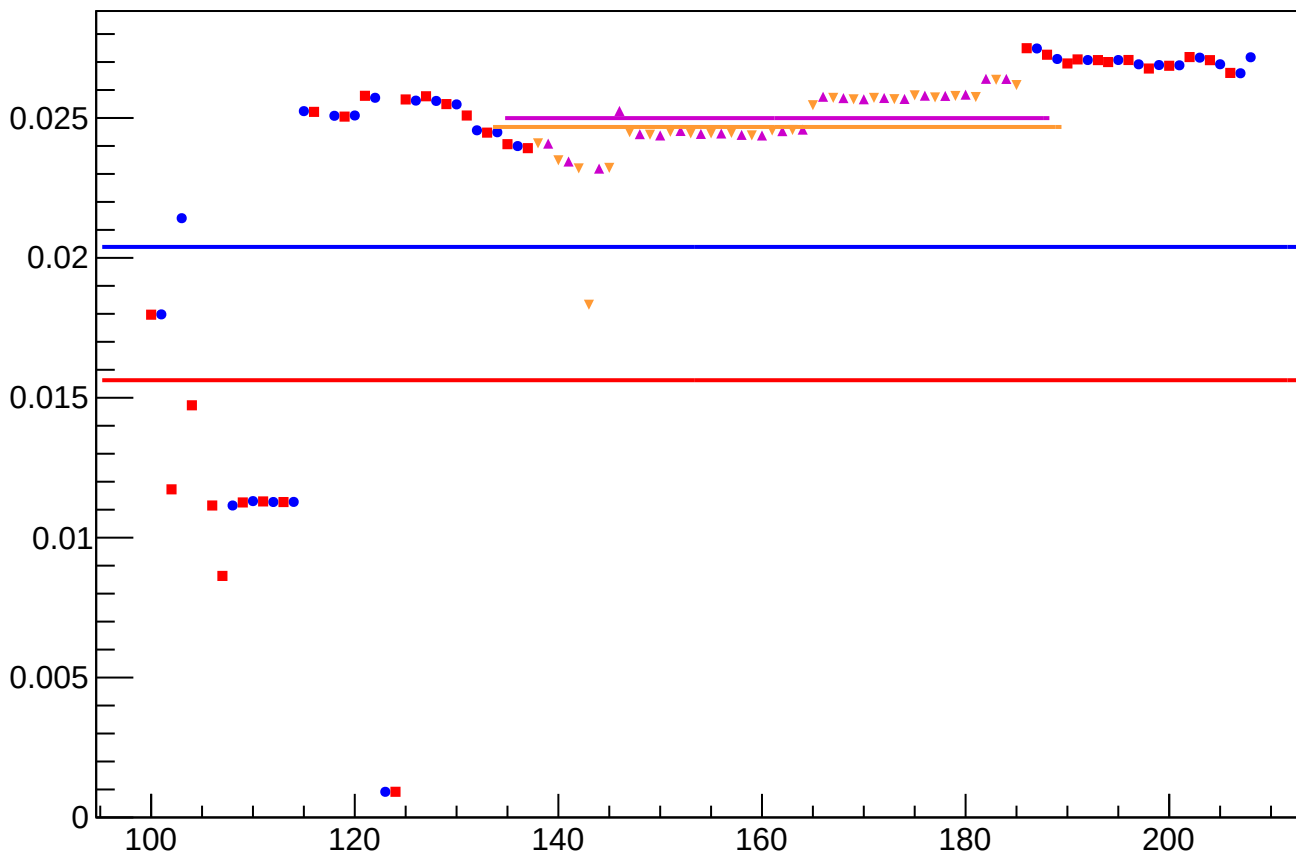
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 1711287.0/57

In: 0.054 $\pm$ 0.000 χ^2 /NDF:1502545.7/50

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:417398.8/54

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 1920642.1/105

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 184955499219.5/27

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.018+/-0.000

χ^2/NDF : 614029999657.6/58

Right Out: 0.016+/-0.000

χ^2/NDF : 396330384962.0/30

In: 0.023+/-0.000

χ^2/NDF : 218850229455.6/50

Out: 0.020+/-0.000

χ^2/NDF : 549281897937.5/55

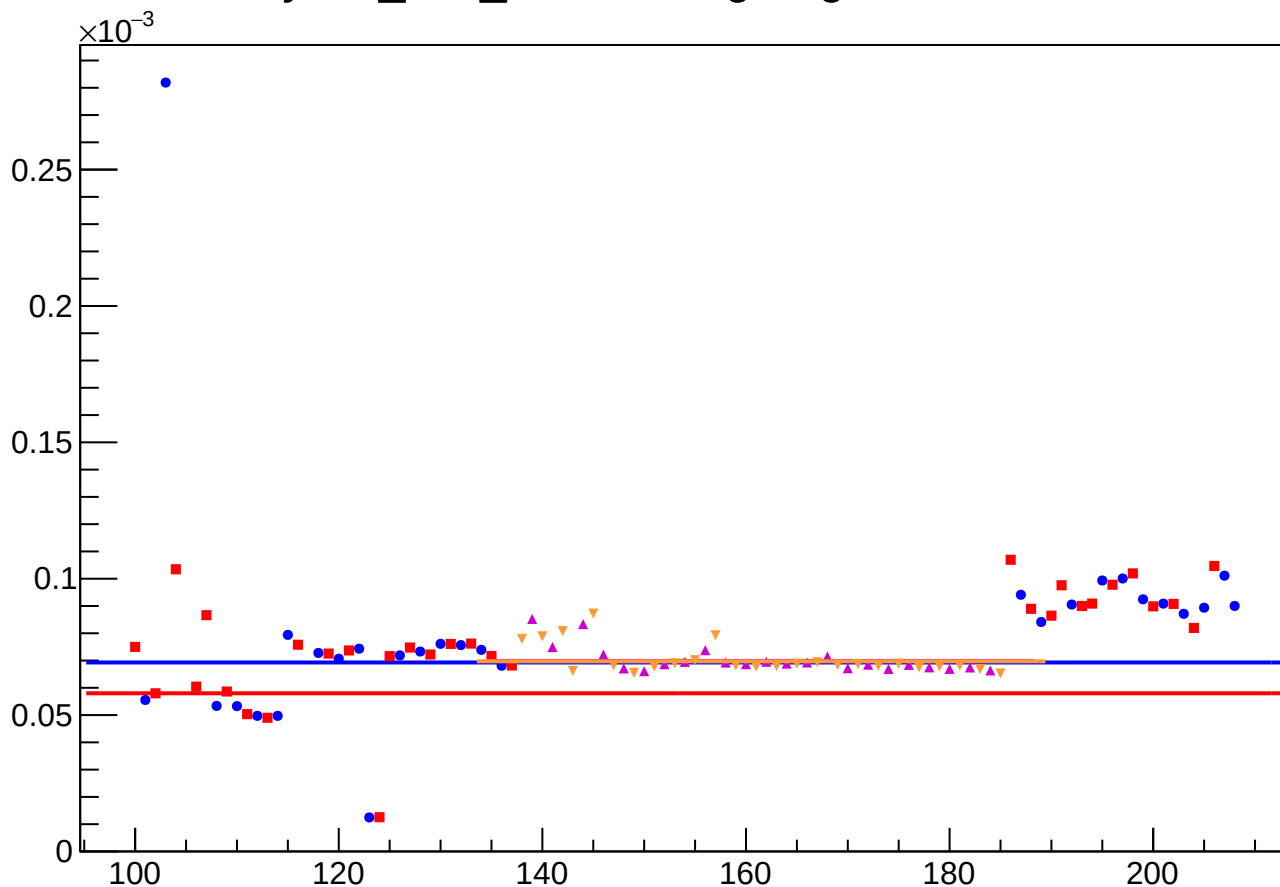
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 790765358148.3

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3495220.9/27

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6705716.0/30

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

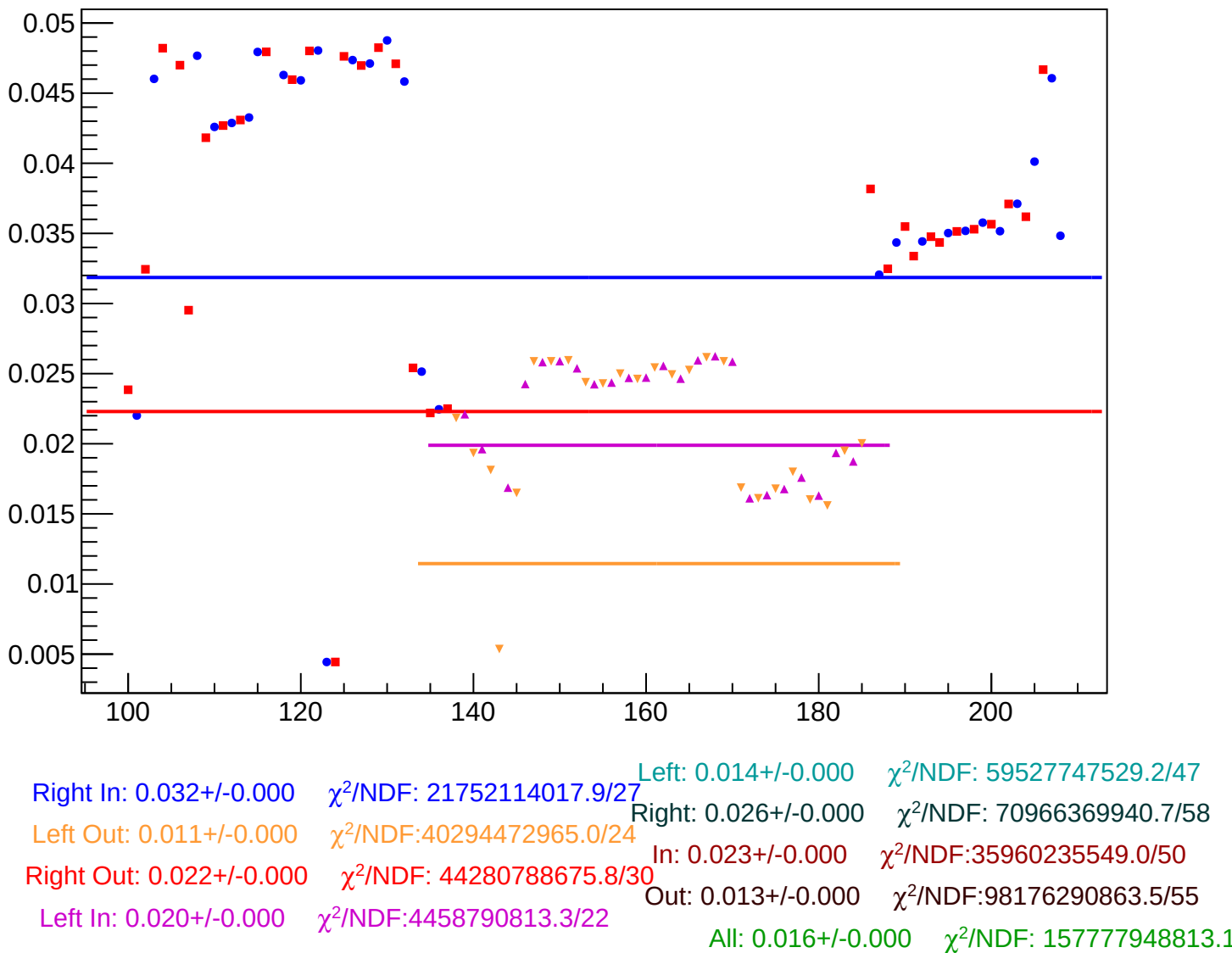
Right: 0.000+/-0.000 χ^2/NDF : 10569168.9/58

In: 0.000+/-0.000 χ^2/NDF :3625459.5/50

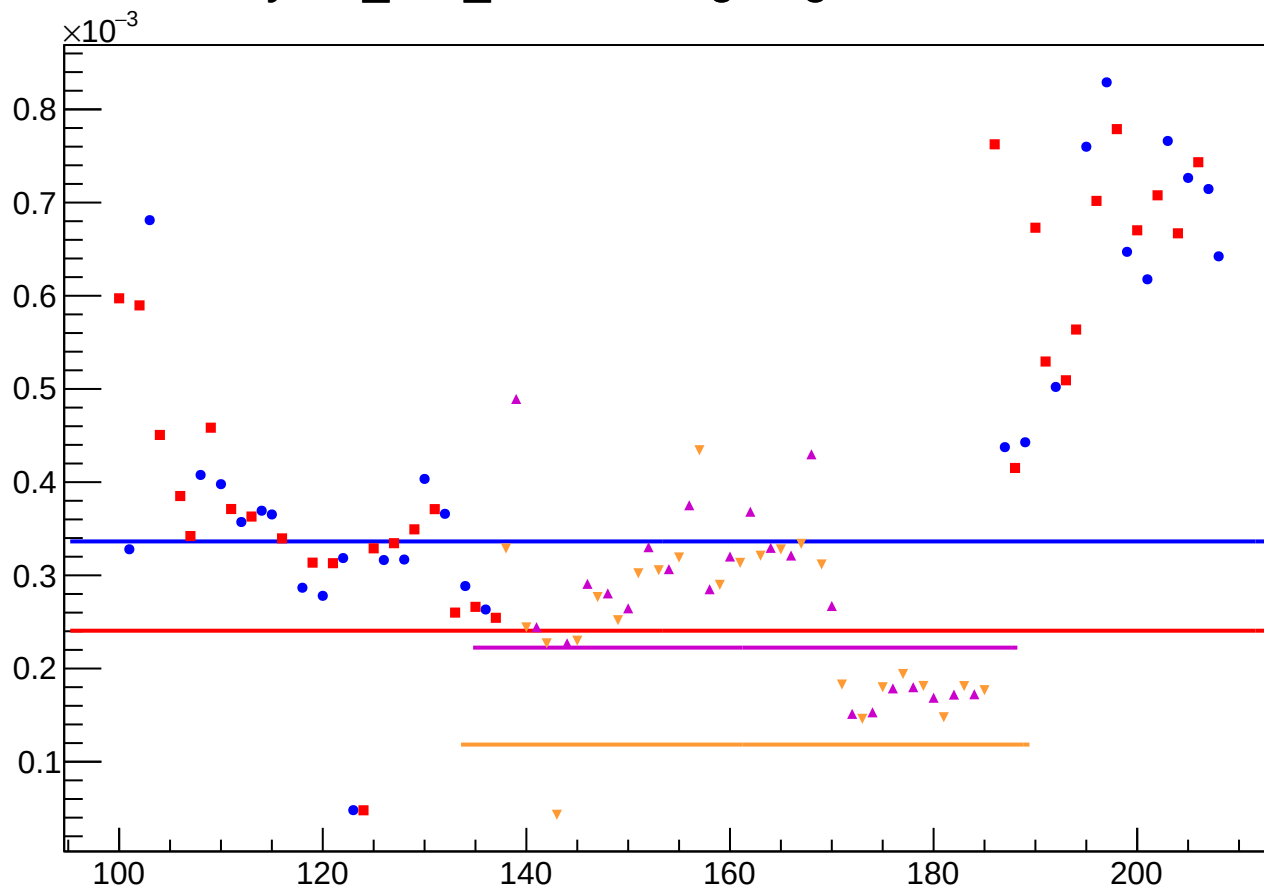
Out: 0.000+/-0.000 χ^2/NDF :7344426.6/55

All: 0.000+/-0.000 χ^2/NDF : 11161141.9/106

yield_atl2_mean vs Slug, Sign Corrected



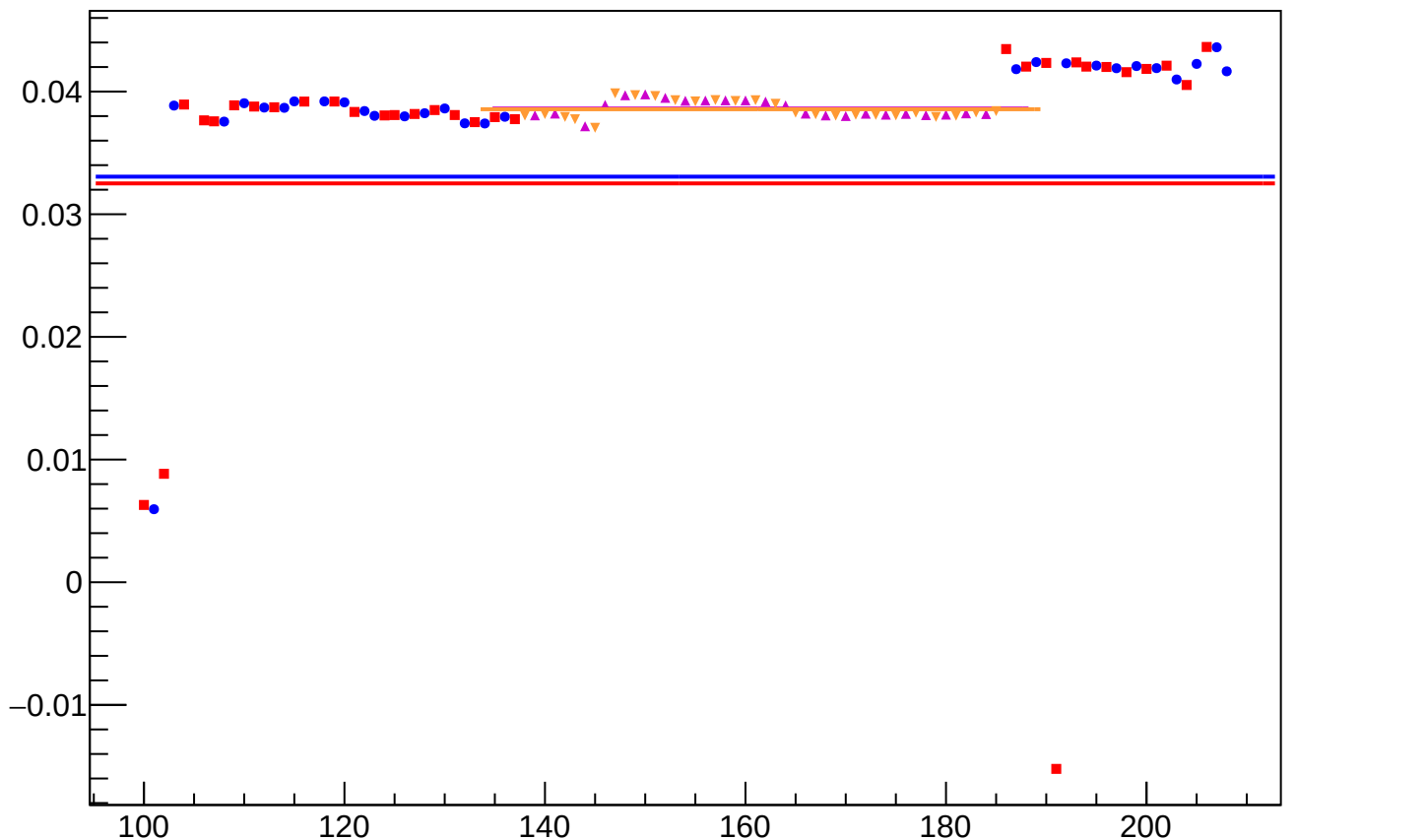
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6667658.7/27
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 11972573.7/30
 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 : 19631764.2/58
 In: 0.000+/-0.000 χ^2/NDF :11717602.4/50
 Out: 0.000+/-0.000 χ^2/NDF :28988556.7/55
 All: 0.000+/-0.000 χ^2/NDF : 47179993.2/106

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.033+/-0.000

χ^2/NDF : 116357007707.3/27

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.033+/-0.000

χ^2/NDF : 297484279790.9/58

Right Out: 0.033+/-0.000

χ^2/NDF : 181029816564.9/30

In: 0.036+/-0.000

χ^2/NDF : 128943858902.4/50

Out: 0.036+/-0.000

χ^2/NDF : 196418532253.9/55

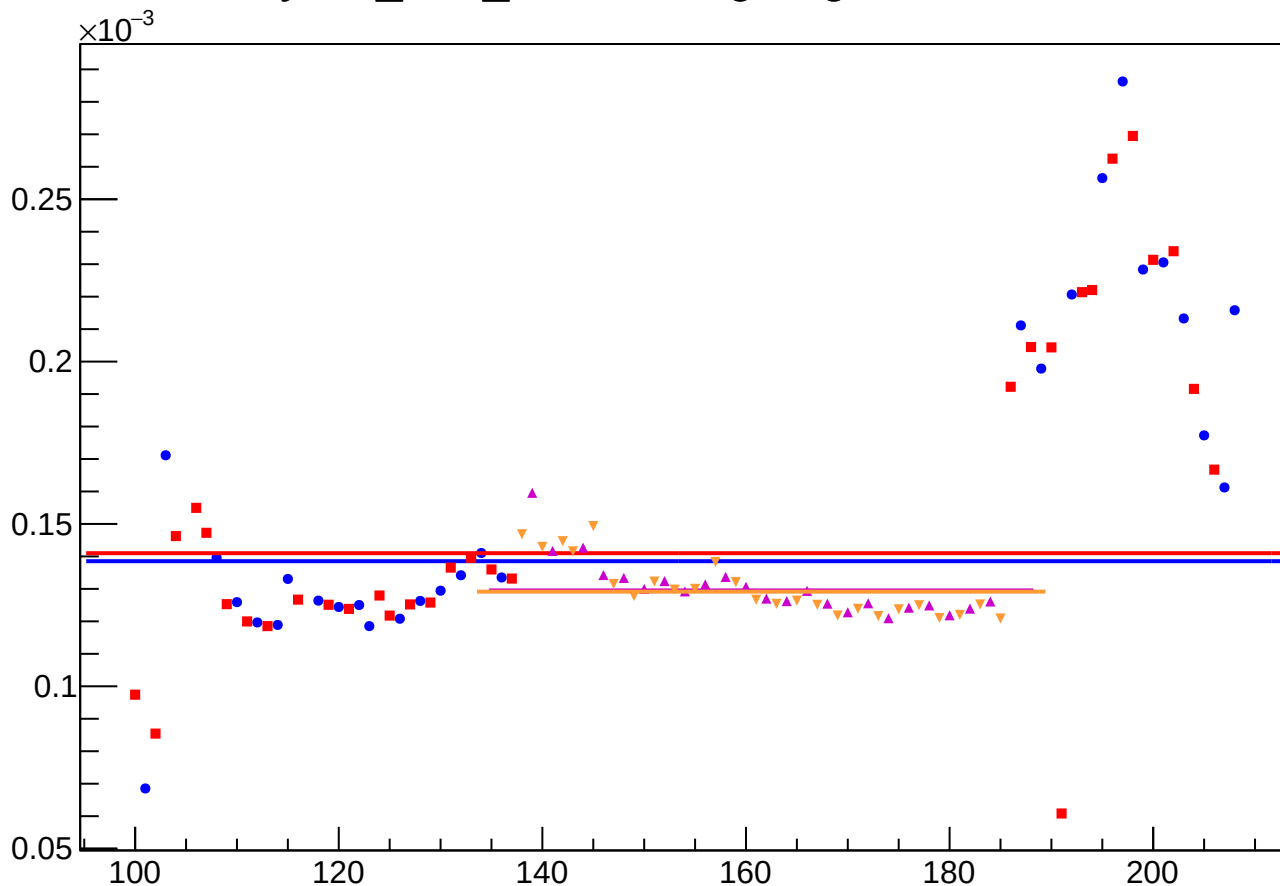
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 325392689946.1

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3359350.7/27

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3074281.1/30

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

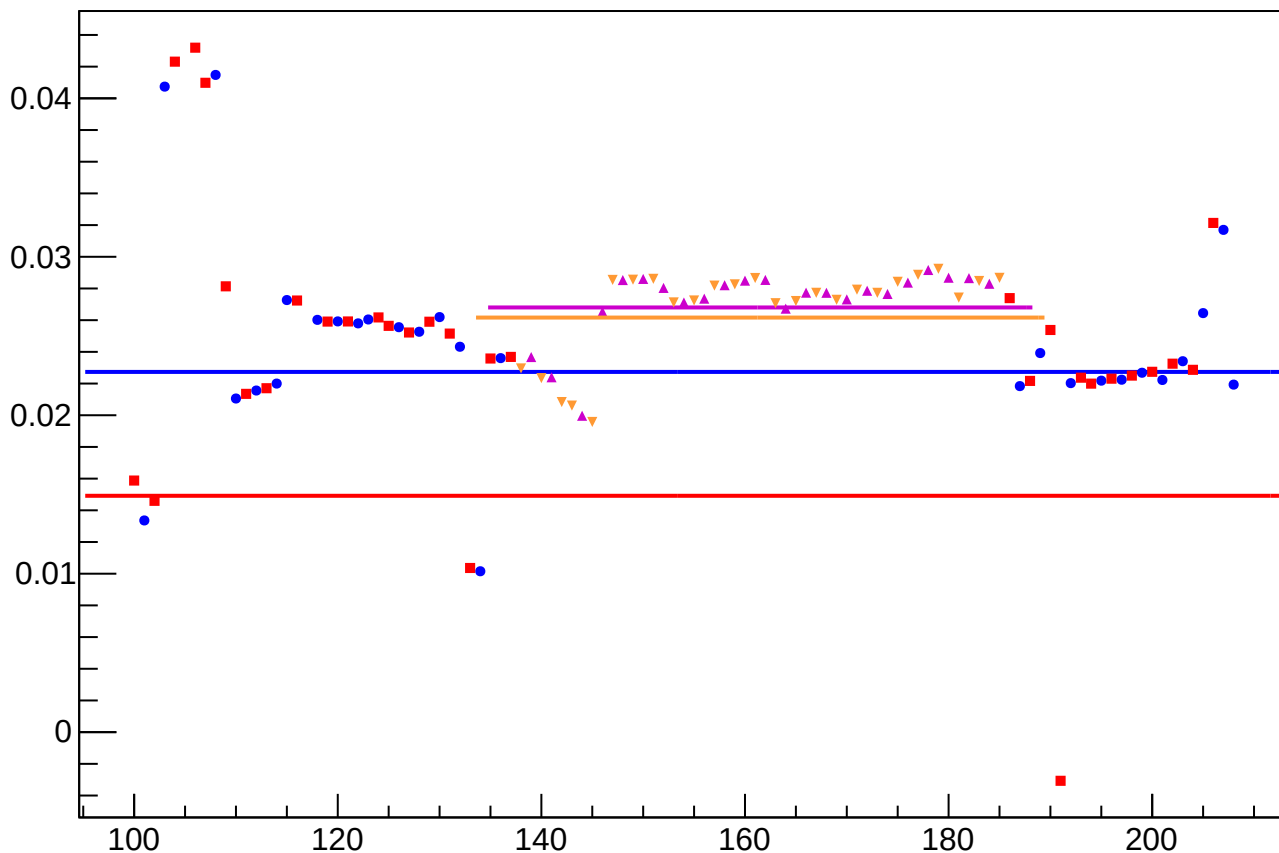
Right: 0.000+/-0.000 χ^2/NDF : 6437555.1/58

In: 0.000+/-0.000 χ^2/NDF :3537687.2/50

Out: 0.000+/-0.000 χ^2/NDF :3318518.1/55

All: 0.000+/-0.000 χ^2/NDF : 6856820.8/106

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000

χ^2/NDF : 4402556883.5/27

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.018+/-0.000

χ^2/NDF : 40038440505.1/58

Right Out: 0.015+/-0.000

χ^2/NDF : 31542624087.9/30

In: 0.025+/-0.000

χ^2/NDF : 6893216126.7/50

Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

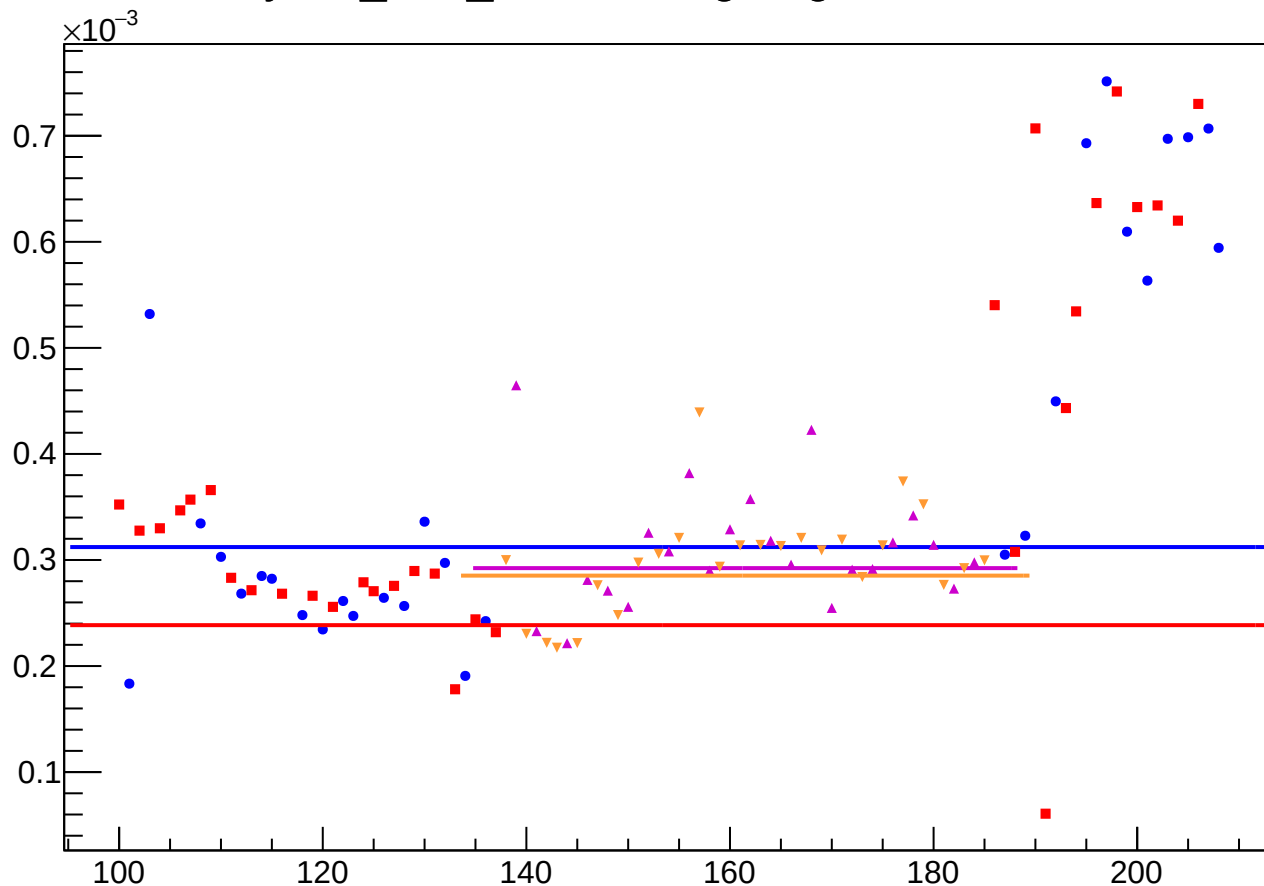
Out: 0.021+/-0.000

χ^2/NDF : 45073276048.0/55

All: 0.023+/-0.000

χ^2/NDF : 54808975794.8/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4725607.8/27

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8939526.7/30

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

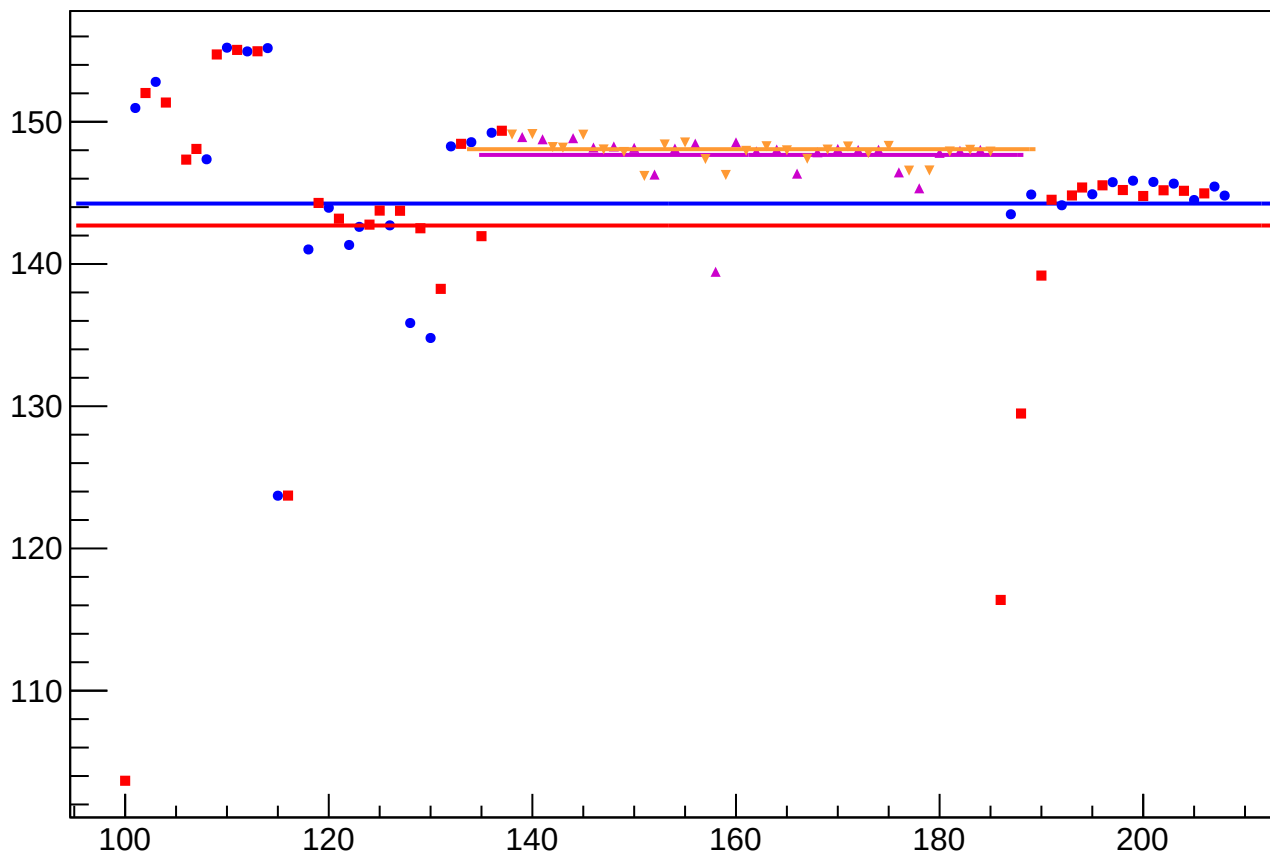
Right: 0.000+/-0.000 χ^2/NDF : 14391524.6/58

In: 0.000+/-0.000 χ^2/NDF :5679614.7/50

Out: 0.000+/-0.000 χ^2/NDF :10148682.4/55

All: 0.000+/-0.000 χ^2/NDF : 16245179.3/106

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.250+/-0.000

χ^2/NDF : 3489909513.7/27

Left: 147.879+/-0.000 χ^2/NDF : 418091602.5/47

Right: 143.441+/-0.000 χ^2/NDF : 11002546977.5/58

Left Out: 148.073+/-0.000

χ^2/NDF : 65614067.4/24

In: 145.981+/-0.000 χ^2/NDF : 4334506387.0/50

Right Out: 142.706+/-0.000 χ^2/NDF : 7407260585.5/30

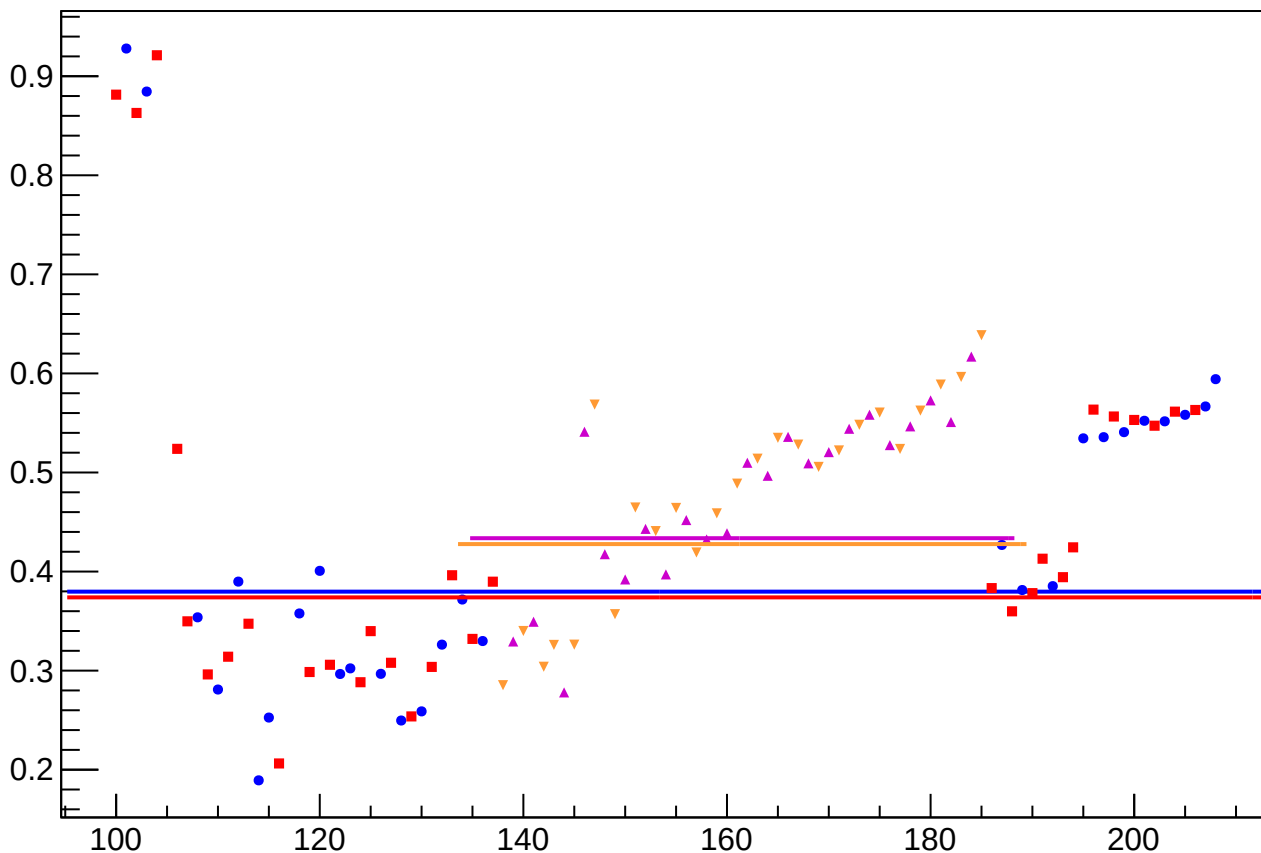
Out: 145.389+/-0.000 χ^2/NDF : 8809392348.5/55

Left In: 147.670+/-0.000

χ^2/NDF : 345222604.4/22

All: 145.673+/-0.000 χ^2/NDF : 13175127343.0/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.380 $\pm$ 0.000 χ^2 /NDF: 2884943.9/27

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.374 $\pm$ 0.000 χ^2 /NDF: 2536452.8/30

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3396308.8/47

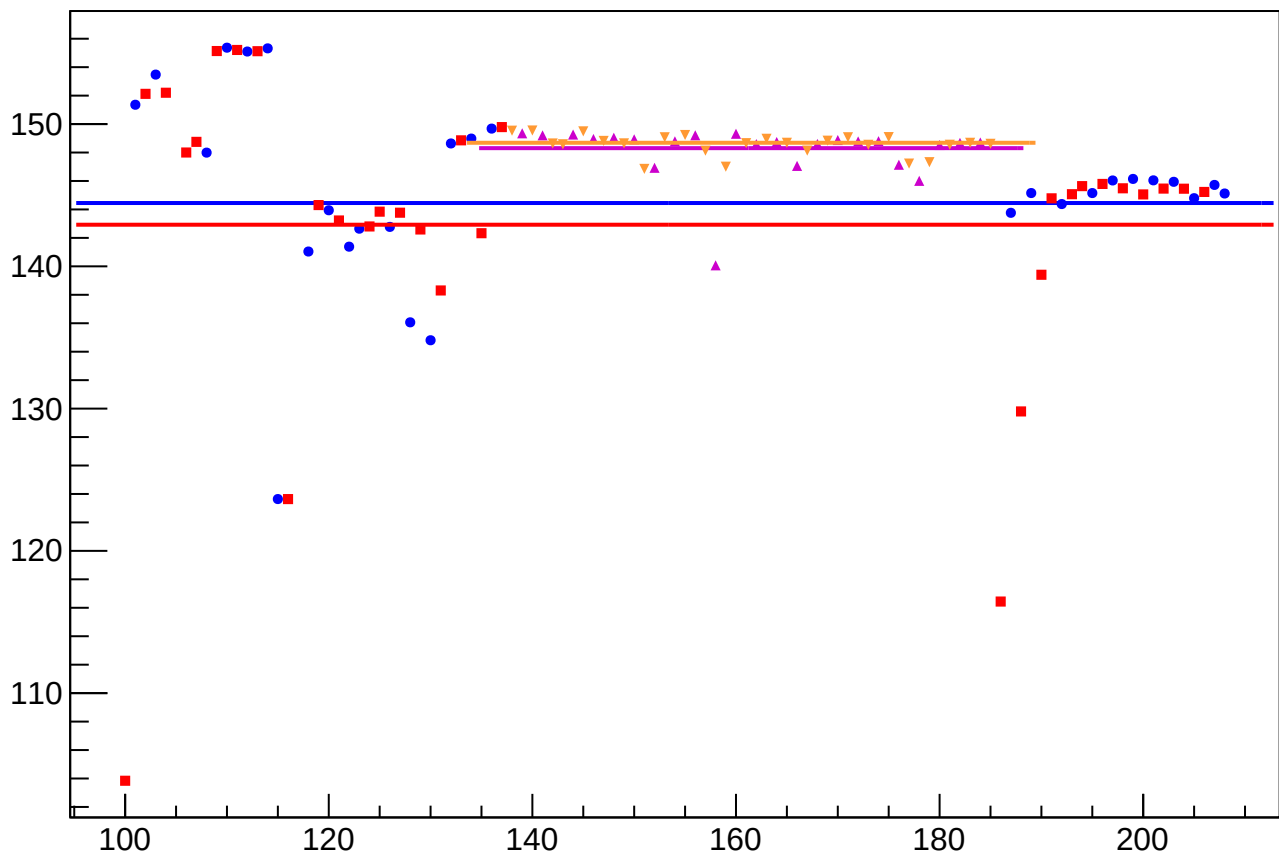
Right: 0.377 $\pm$ 0.000 χ^2 /NDF: 5424369.6/58

In: 0.407 $\pm$ 0.000 χ^2 /NDF:4629732.7/50

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:4701895.2/55

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 9338484.6/106

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.451+/-0.000

χ^2/NDF : 3539262132.4/27

Left Out: 148.686+/-0.000

χ^2/NDF : 52218185.1/24

Right Out: 142.926+/-0.000

χ^2/NDF : 7355680999.8/30

Left In: 148.307+/-0.000

χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000

χ^2/NDF : 392094013.2/47

Right: 143.652+/-0.000

χ^2/NDF : 10996471589.5/58

In: 146.394+/-0.000

χ^2/NDF : 4497247620.2/50

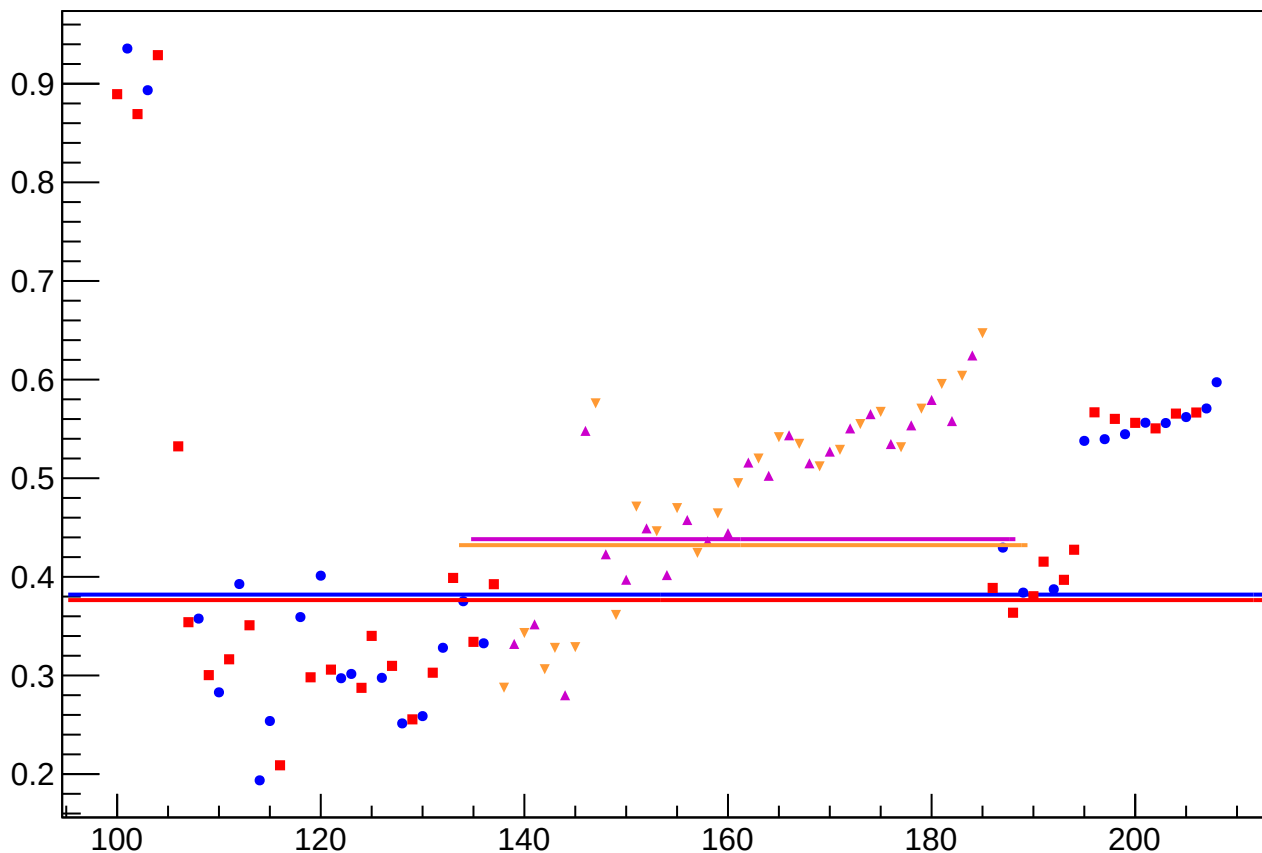
Out: 145.794+/-0.000

χ^2/NDF : 8921348378.5/55

All: 146.081+/-0.000

χ^2/NDF : 13450083294.0/100

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2892929.0/27

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2540147.9/30

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1521893.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3454164.8/47

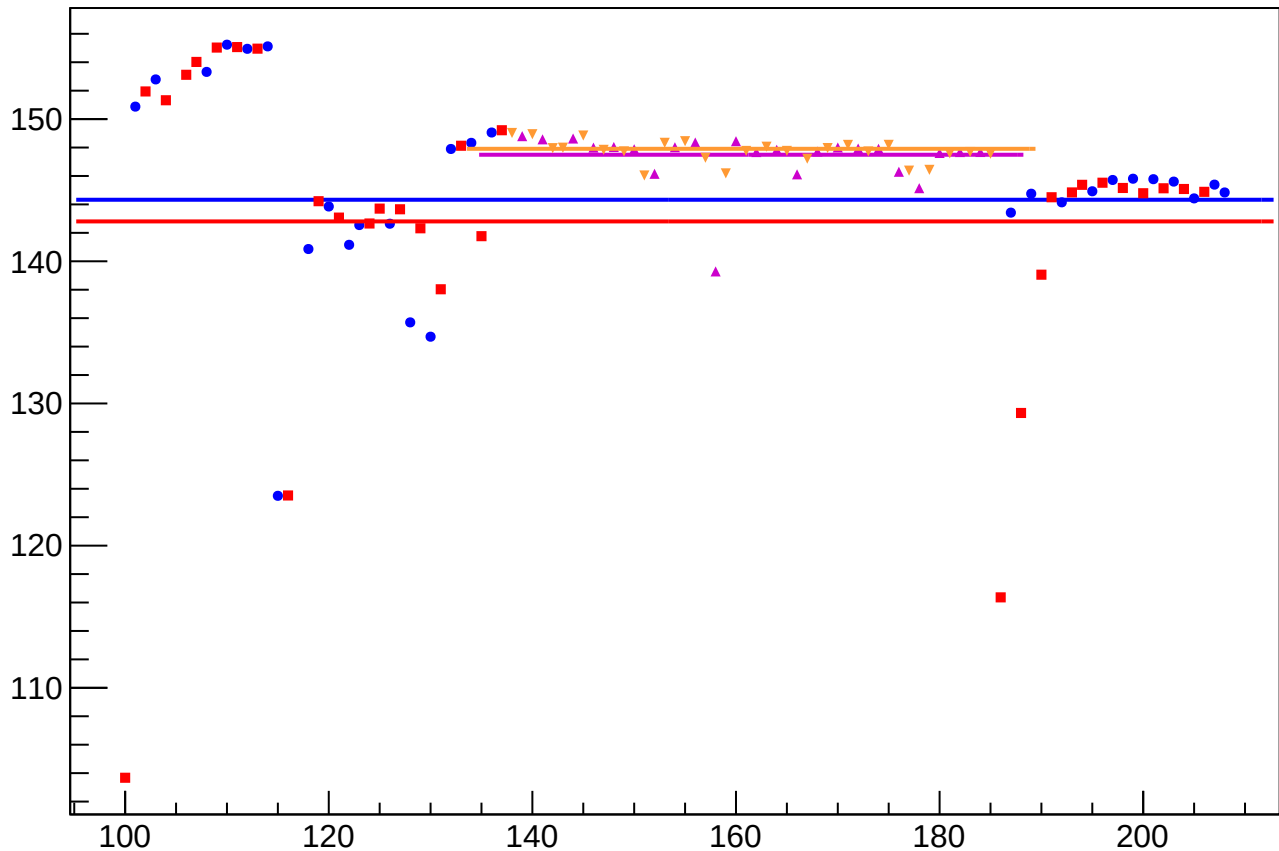
Right: 0.379 $\pm$ 0.000 χ^2 /NDF: 5435785.6/58

In: 0.410 $\pm$ 0.000 χ^2 /NDF:4680211.0/50

Out: 0.404 $\pm$ 0.000 χ^2 /NDF:4752245.3/55

All: 0.407 $\pm$ 0.000 χ^2 /NDF: 9439087.7/106

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.328 $\pm$ 0.000 χ^2 /NDF: 3696088295.9/27

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.804 $\pm$ 0.000 χ^2 /NDF: 7784178641.4/30

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

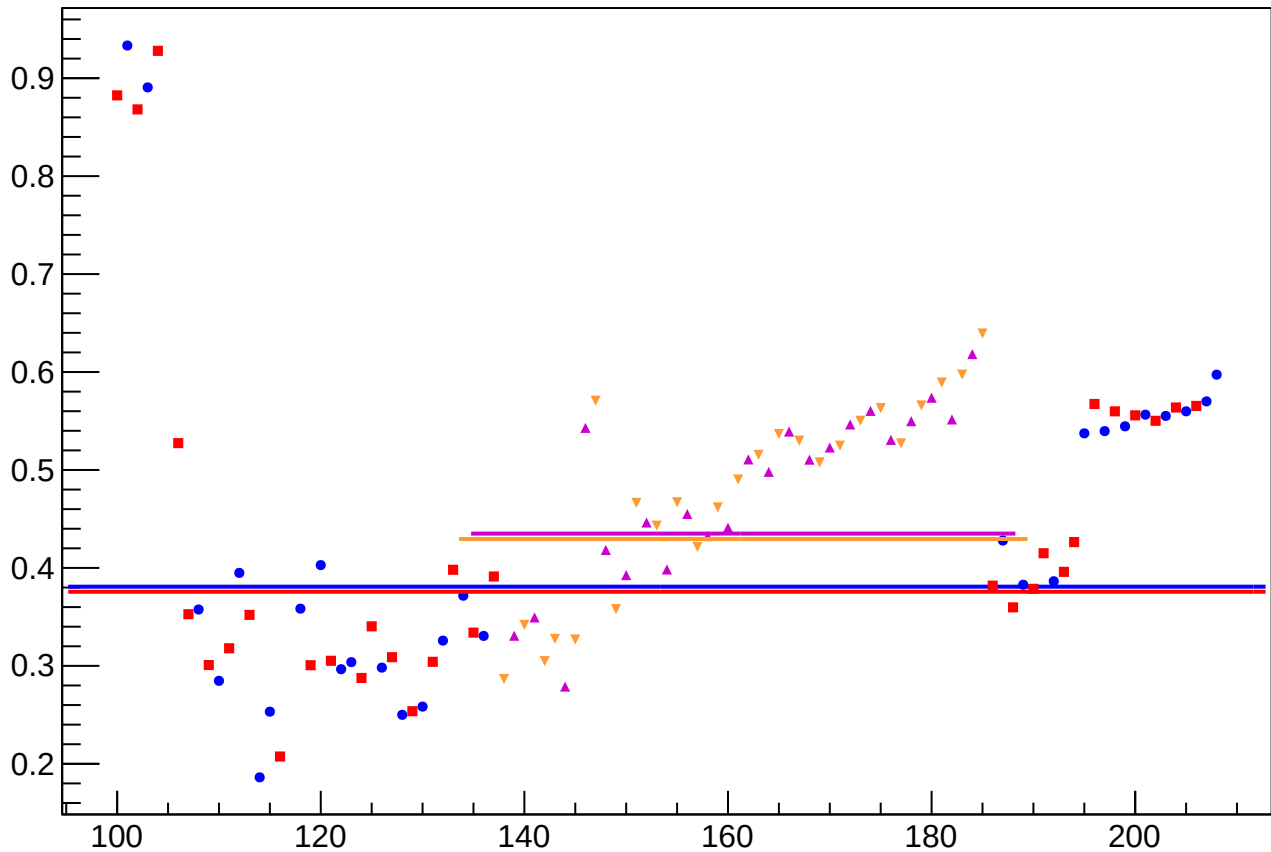
Right: 143.530 $\pm$ 0.000 χ^2 /NDF: 11582048328.5/58

In: 145.931 $\pm$ 0.000 χ^2 /NDF: 4464933338.0/50

Out: 145.358 $\pm$ 0.000 χ^2 /NDF: 9048465091.8/55

All: 145.633 $\pm$ 0.000 χ^2 /NDF: 13542360689.0/112

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.381 $\pm$ 0.000 χ^2 /NDF: 2918944.6/27

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2540192.0/30

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

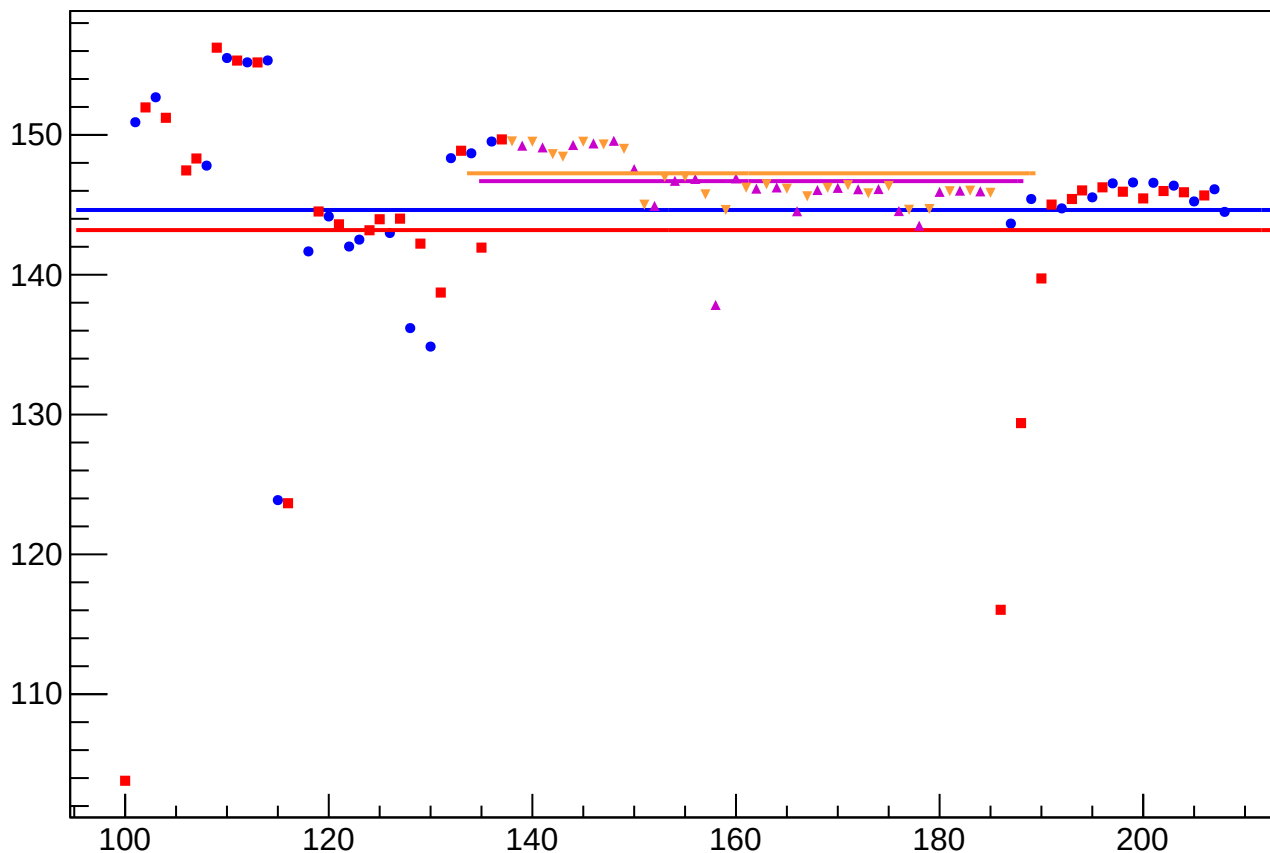
Right: 0.378 $\pm$ 0.000 χ^2 /NDF: 5461509.6/58

In: 0.408 $\pm$ 0.000 χ^2 /NDF:4670781.3/50

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:4702893.3/55

All: 0.405 $\pm$ 0.000 χ^2 /NDF: 9379430.8/106

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.631 $\pm$ 0.000 χ^2 /NDF: 3222061488.8/27

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.194 $\pm$ 0.000 χ^2 /NDF: 7121492346.4/30

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

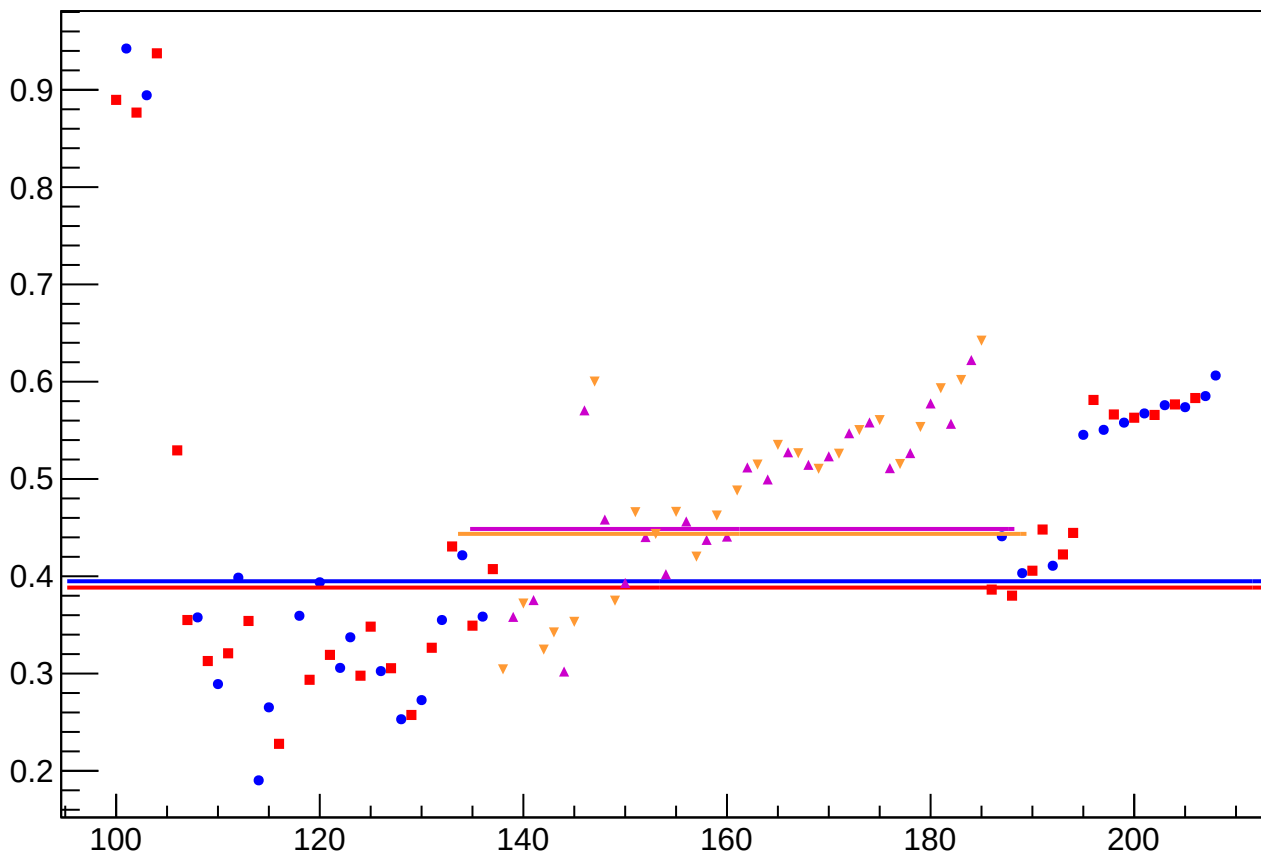
Right: 143.877 $\pm$ 0.000 χ^2 /NDF: 10427935728.8/58

In: 145.687 $\pm$ 0.000 χ^2 /NDF: 3949778337.1/50

Out: 145.238 $\pm$ 0.000 χ^2 /NDF: 8096850071.0/55

All: 145.454 $\pm$ 0.000 χ^2 /NDF: 12063359005.0/105

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 2837638.1/27

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 2480868.3/30

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

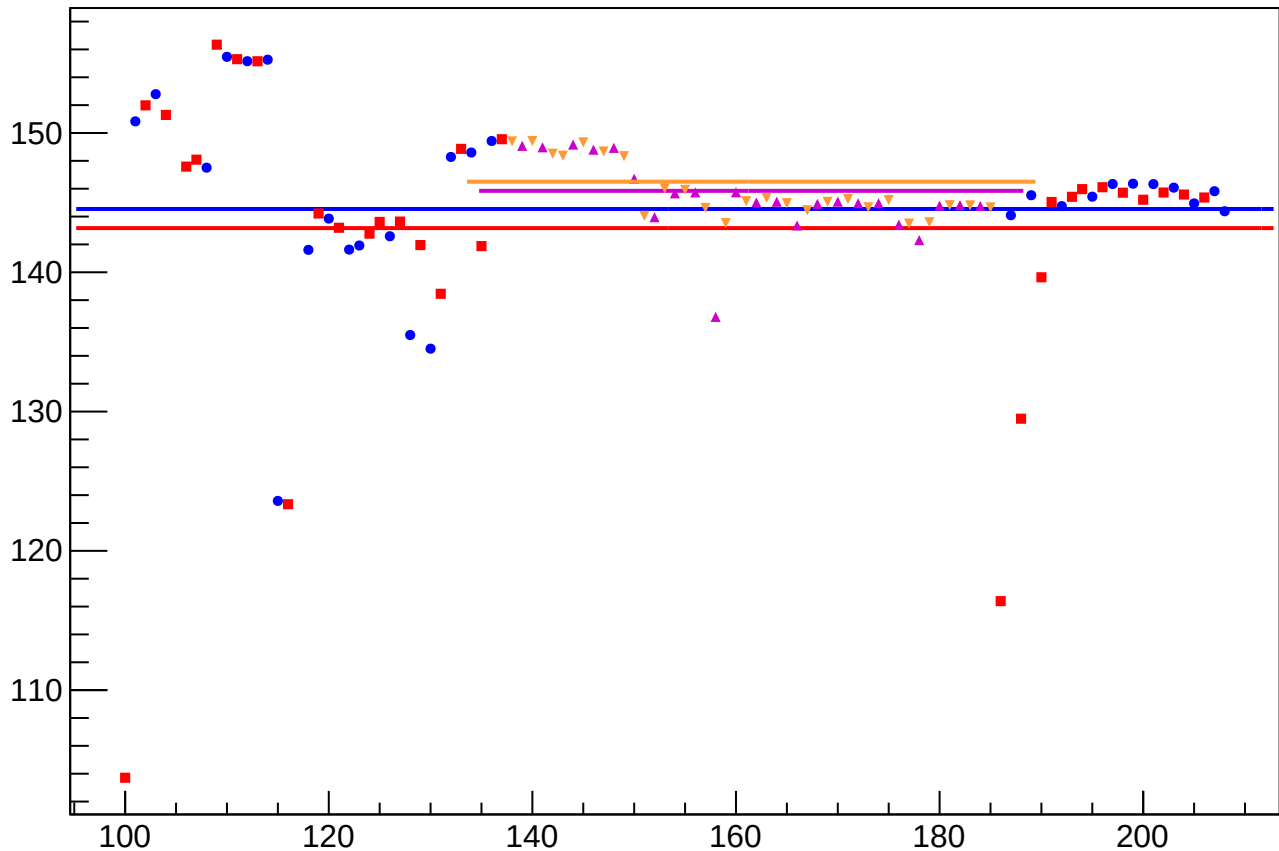
Right: 0.391 $\pm$ 0.000 χ^2 /NDF: 5321962.6/58

In: 0.422 $\pm$ 0.000 χ^2 /NDF:4200523.1/50

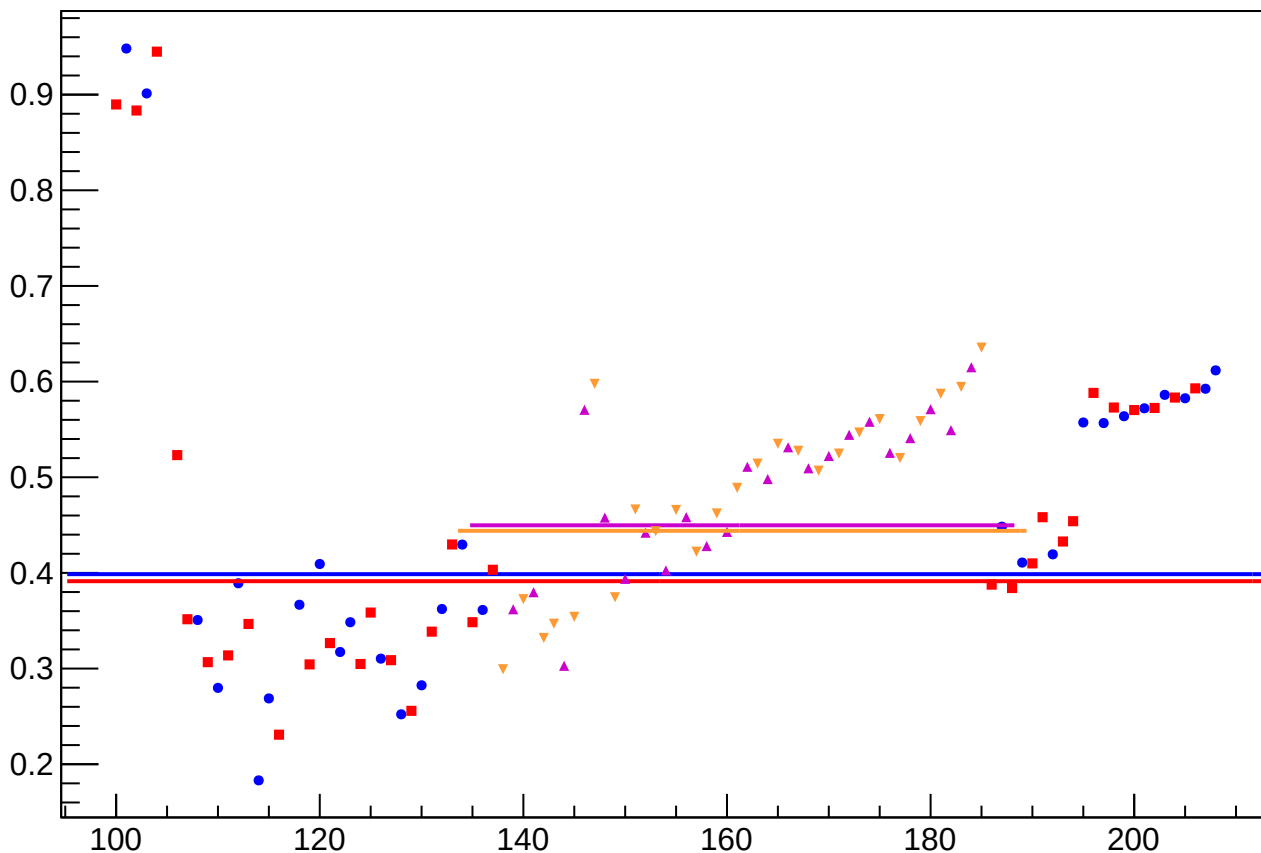
Out: 0.416 $\pm$ 0.000 χ^2 /NDF:4227867.5/55

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 8434803.0/106

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 2884946.3/27

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.391 $\pm$ 0.000 χ^2 /NDF: 2511833.9/30

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

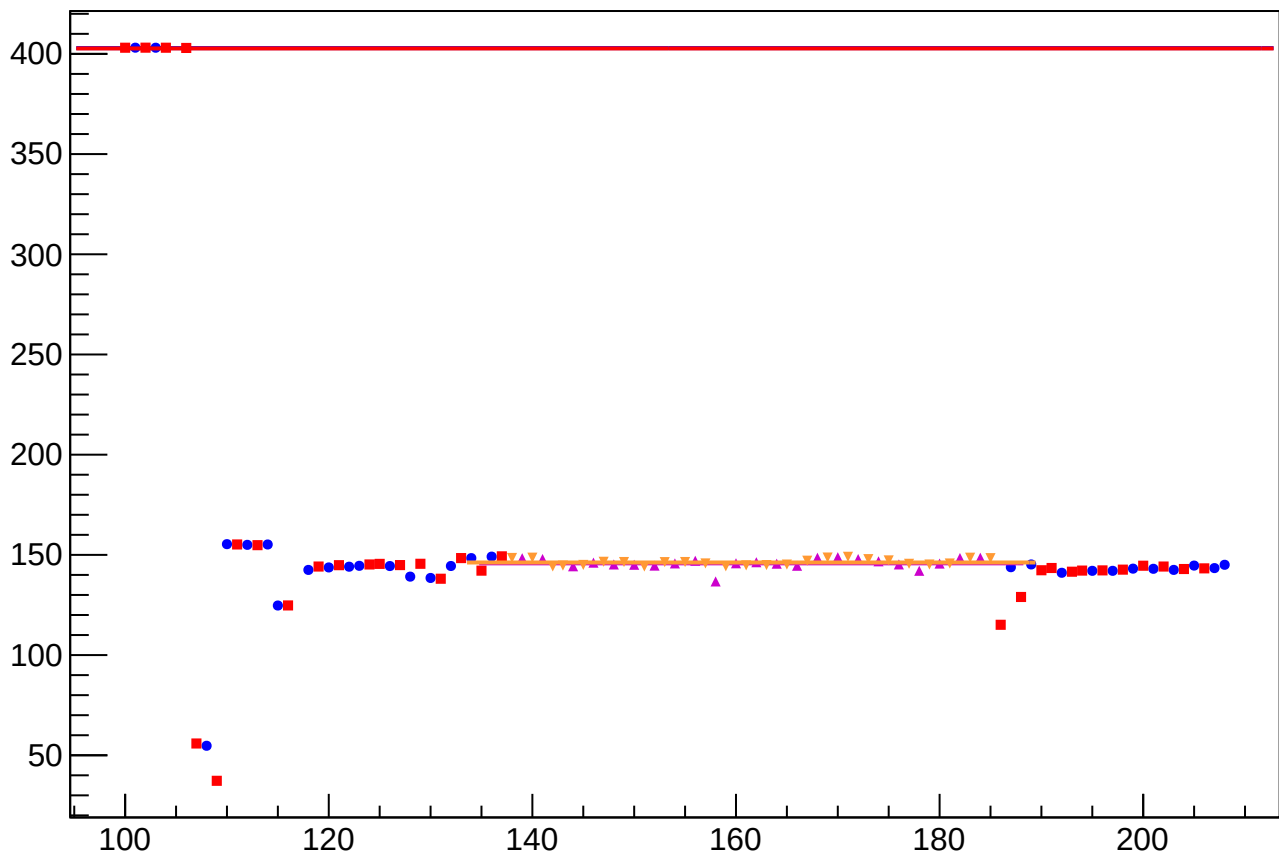
Right: 0.395 $\pm$ 0.000 χ^2 /NDF: 5401099.3/58

In: 0.425 $\pm$ 0.000 χ^2 /NDF:4195234.9/50

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4212432.1/55

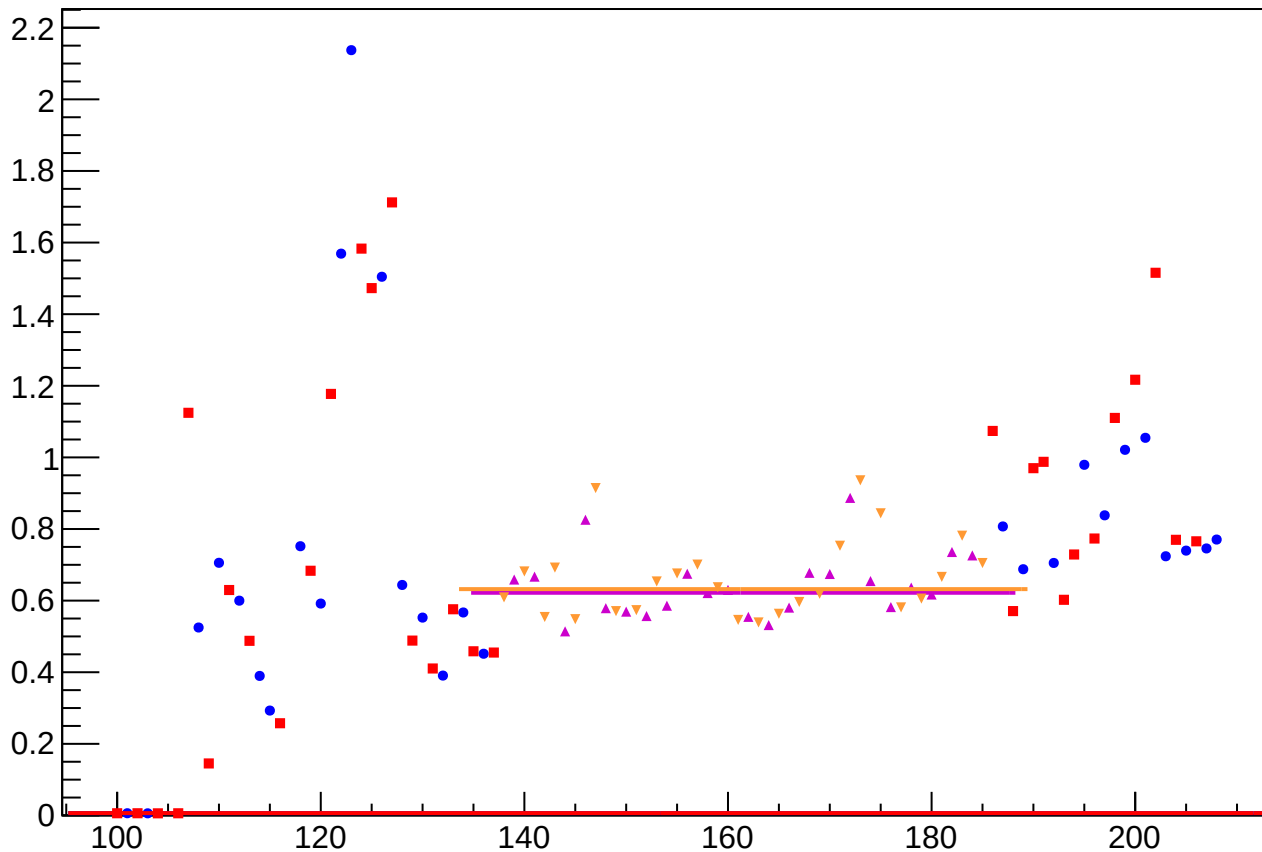
All: 0.421 $\pm$ 0.000 χ^2 /NDF: 8415662.2/106

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.878 $\pm$ 0.000	χ^2 /NDF: 1740379170878.6/27	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: 402.793 $\pm$ 0.000	χ^2 /NDF: 5594262950551.0
Right Out: 402.718 $\pm$ 0.000	χ^2 /NDF: 3853461916413.9/30	In: 402.585 $\pm$ 0.000	χ^2 /NDF: 4088954299588.7/50
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.456 $\pm$ 0.000	χ^2 /NDF: 6221354260466.3/5
		All: 402.517 $\pm$ 0.000	χ^2 /NDF: 103105809864

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 21238931.3/27

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 22343439.7/30

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

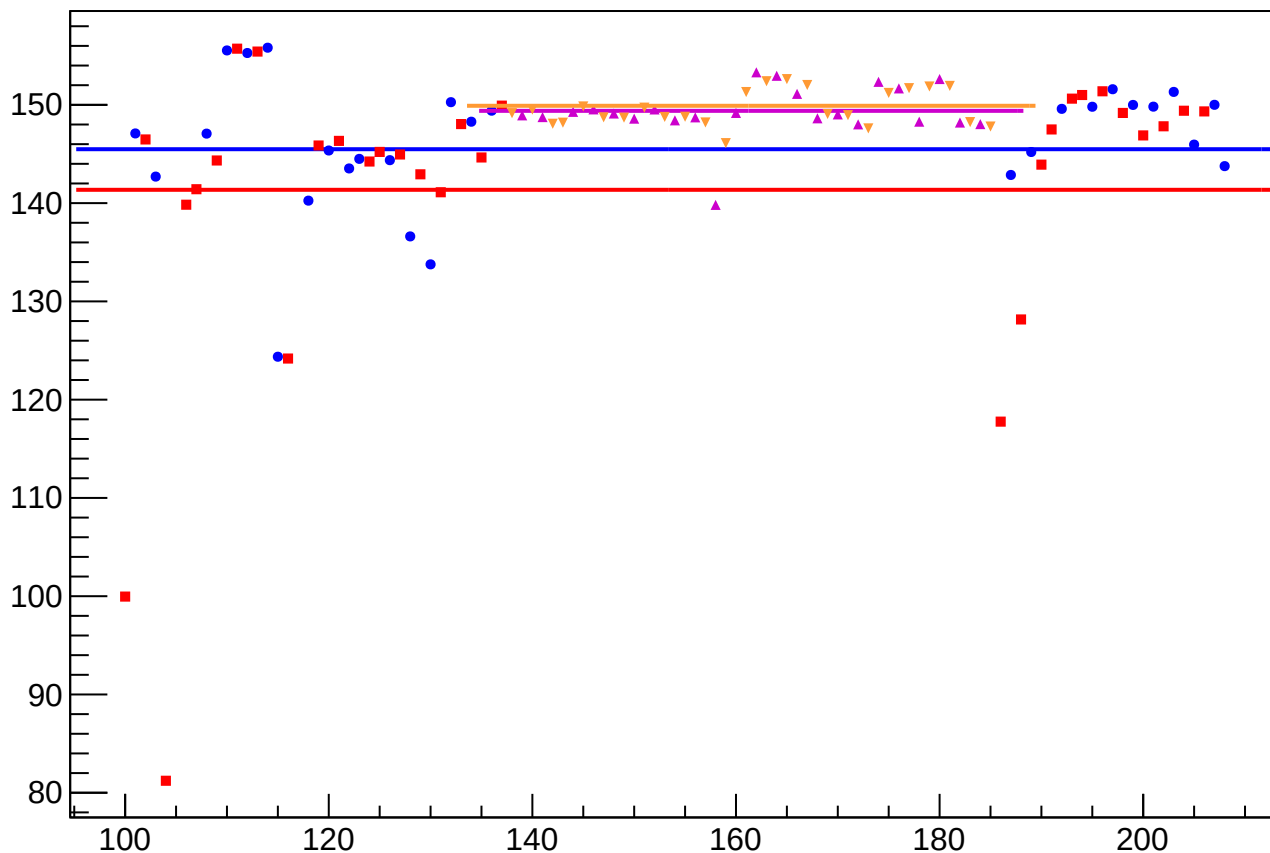
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 43582387.0/58

In: 0.007 $\pm$ 0.000 χ^2 /NDF:48548390.7/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:51121094.2/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 99669726.4/106

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.487 $\pm$ 0.000

χ^2 /NDF: 1332532898.0/27

Left: 149.657 $\pm$ 0.000

χ^2 /NDF: 606930259.3/47

Left Out: 149.906 $\pm$ 0.000

χ^2 /NDF: 163261802.4/24

Right: 143.251 $\pm$ 0.000

χ^2 /NDF: 4786637594.2/58

Right Out: 141.355 $\pm$ 0.000

χ^2 /NDF: 3247439380.4/30

In: 148.142 $\pm$ 0.000

χ^2 /NDF: 2001623689.9/50

Out: 146.987 $\pm$ 0.000

χ^2 /NDF: 4681713069.7/55

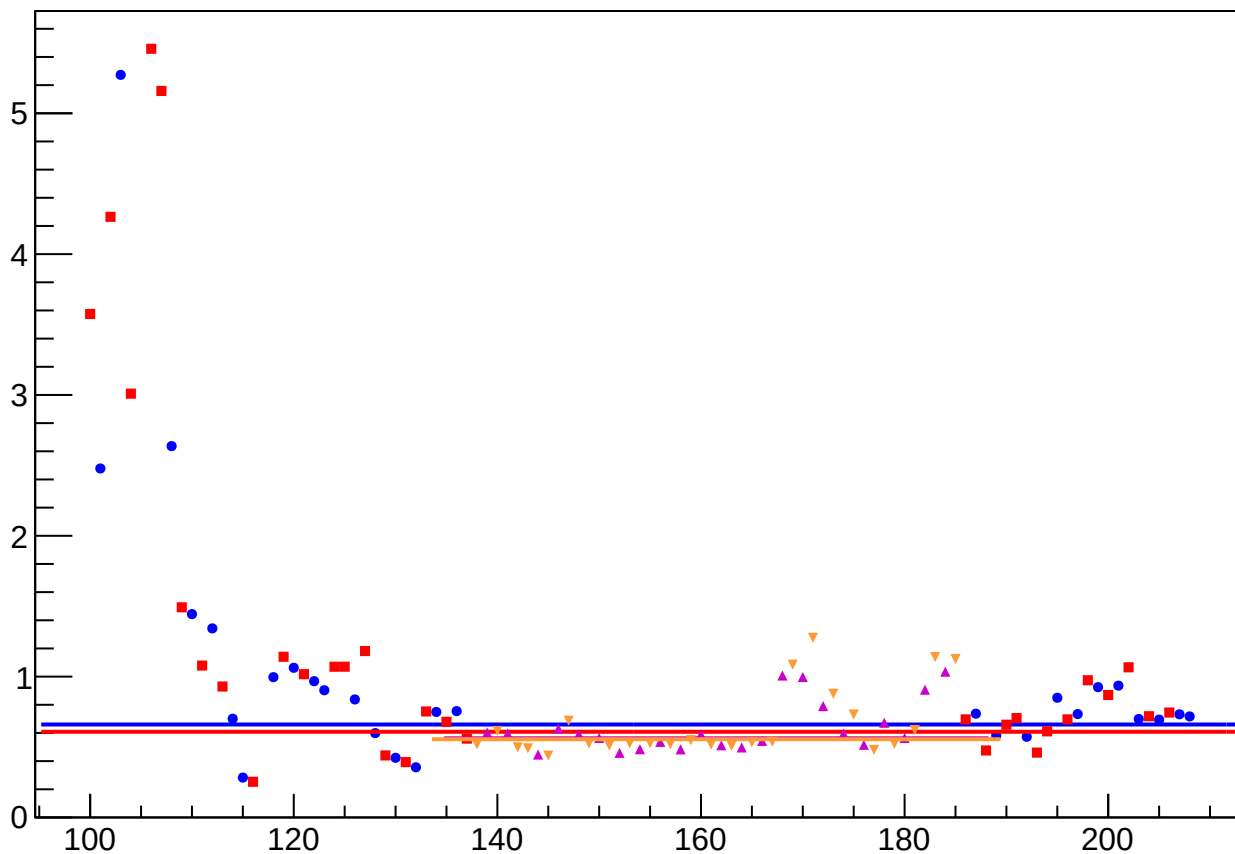
Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

All: 147.536 $\pm$ 0.000

χ^2 /NDF: 6732350045.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.660 $\pm$ 0.000 χ^2 /NDF: 3969895.1/27

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.608 $\pm$ 0.000 χ^2 /NDF: 5545697.2/30

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

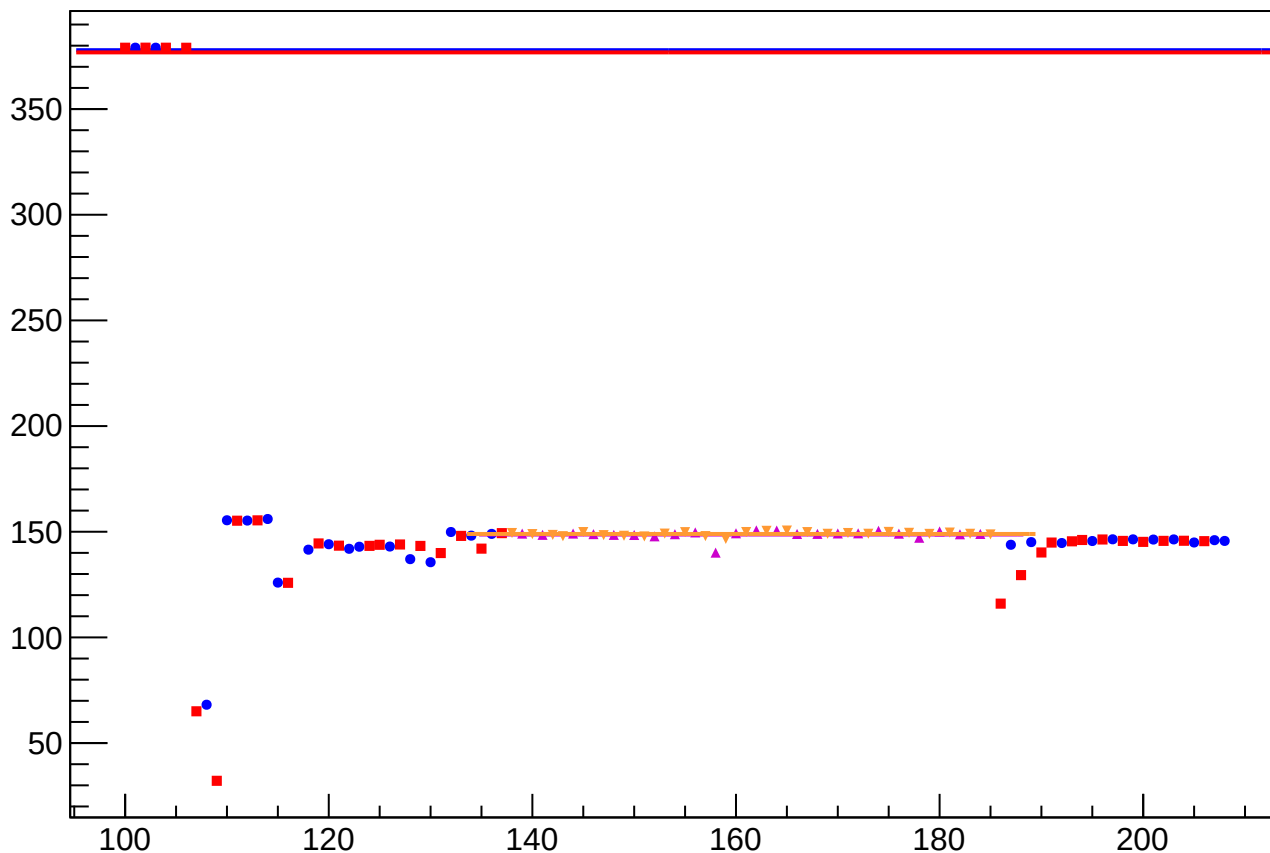
Right: 0.632 $\pm$ 0.000 χ^2 /NDF: 9579985.3/58

In: 0.593 $\pm$ 0.000 χ^2 /NDF:5572995.8/50

Out: 0.574 $\pm$ 0.000 χ^2 /NDF:7416946.3/55

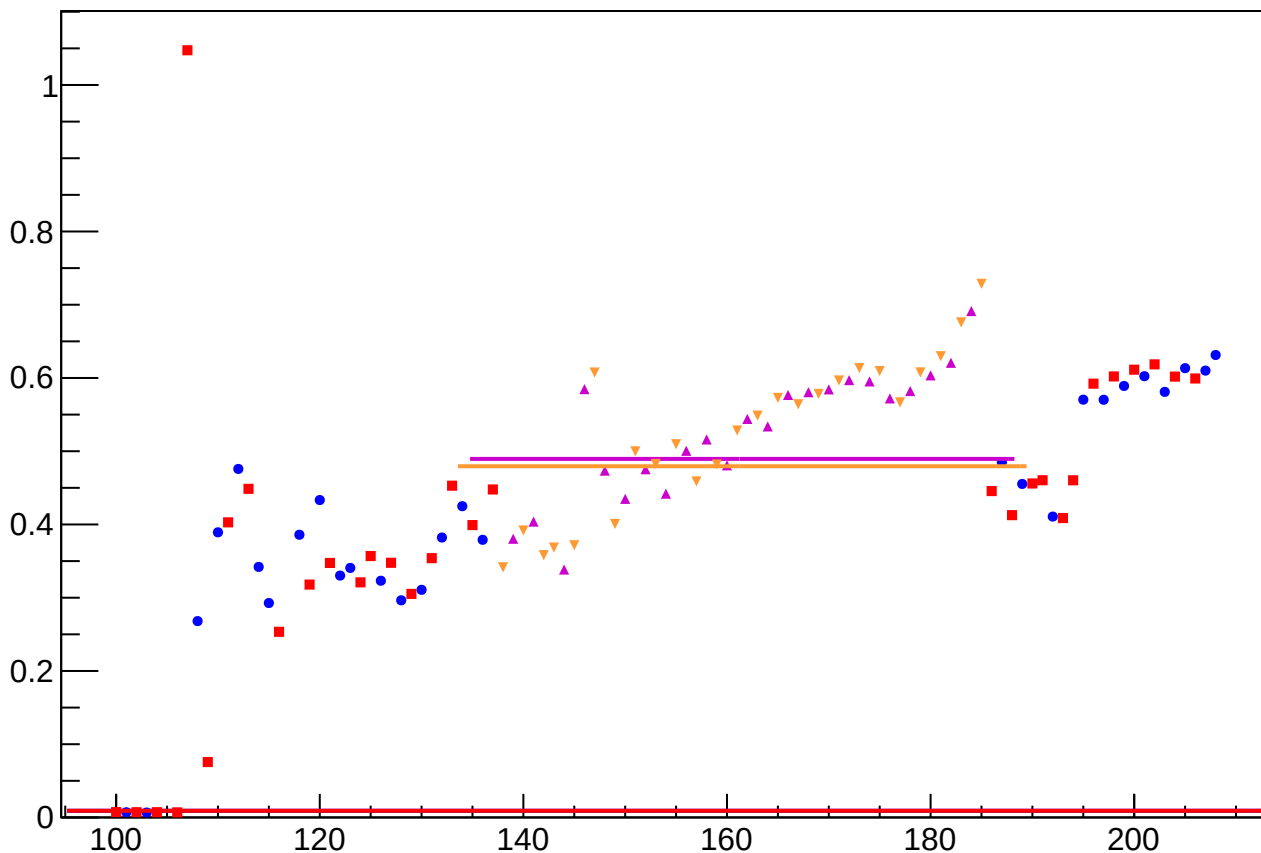
All: 0.583 $\pm$ 0.000 χ^2 /NDF: 13018974.4/106

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.858 $\pm$ 0.000	χ^2 /NDF: 3822611472451.8/27	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: 377.307 $\pm$ 0.000	χ^2 /NDF: 13785146106058.7
Right Out: 376.823 $\pm$ 0.000	χ^2 /NDF: 9954917498976.6/30	In: 376.681 $\pm$ 0.000	χ^2 /NDF: 7423446100055.5/50
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.707 $\pm$ 0.000	χ^2 /NDF: 13823264274042.7
		All: 376.162 $\pm$ 0.000	χ^2 /NDF: 212534789094.2

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 24150545.5/27

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 24518816.4/30

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

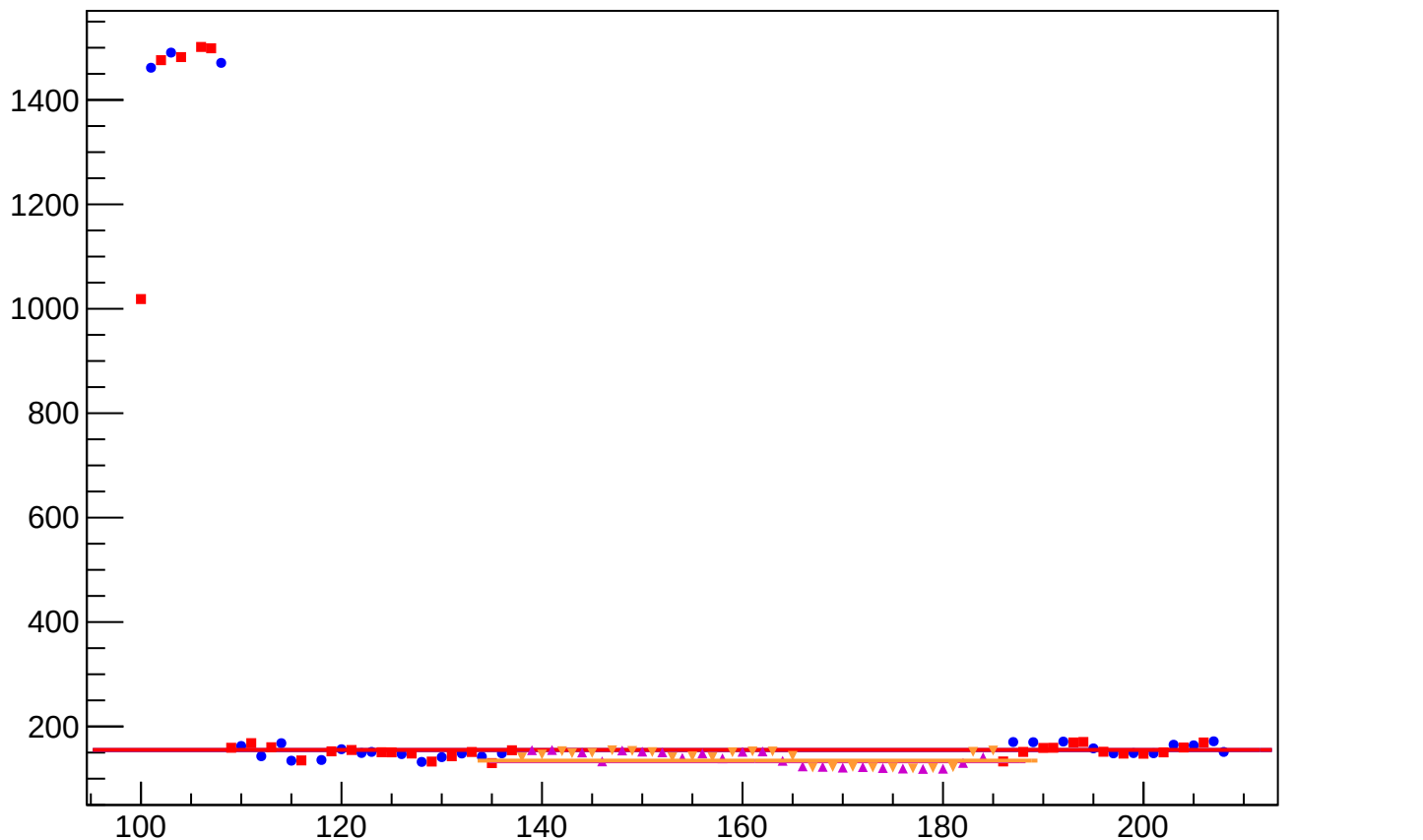
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 48669363.9/58

In: 0.012 $\pm$ 0.000 χ^2 /NDF:56885472.4/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:59001349.6/55

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 115887158.8/106

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.833+/-0.000

χ^2/NDF : 25920413342.4/27

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

Right: 154.978+/-0.000

χ^2/NDF : 60917563581.9/58

Right Out: 155.111+/-0.000

χ^2/NDF : 34996471228.6/30

In: 142.381+/-0.000

χ^2/NDF : 34753880566.0/50

Out: 143.511+/-0.000

χ^2/NDF : 43733512919.3/55

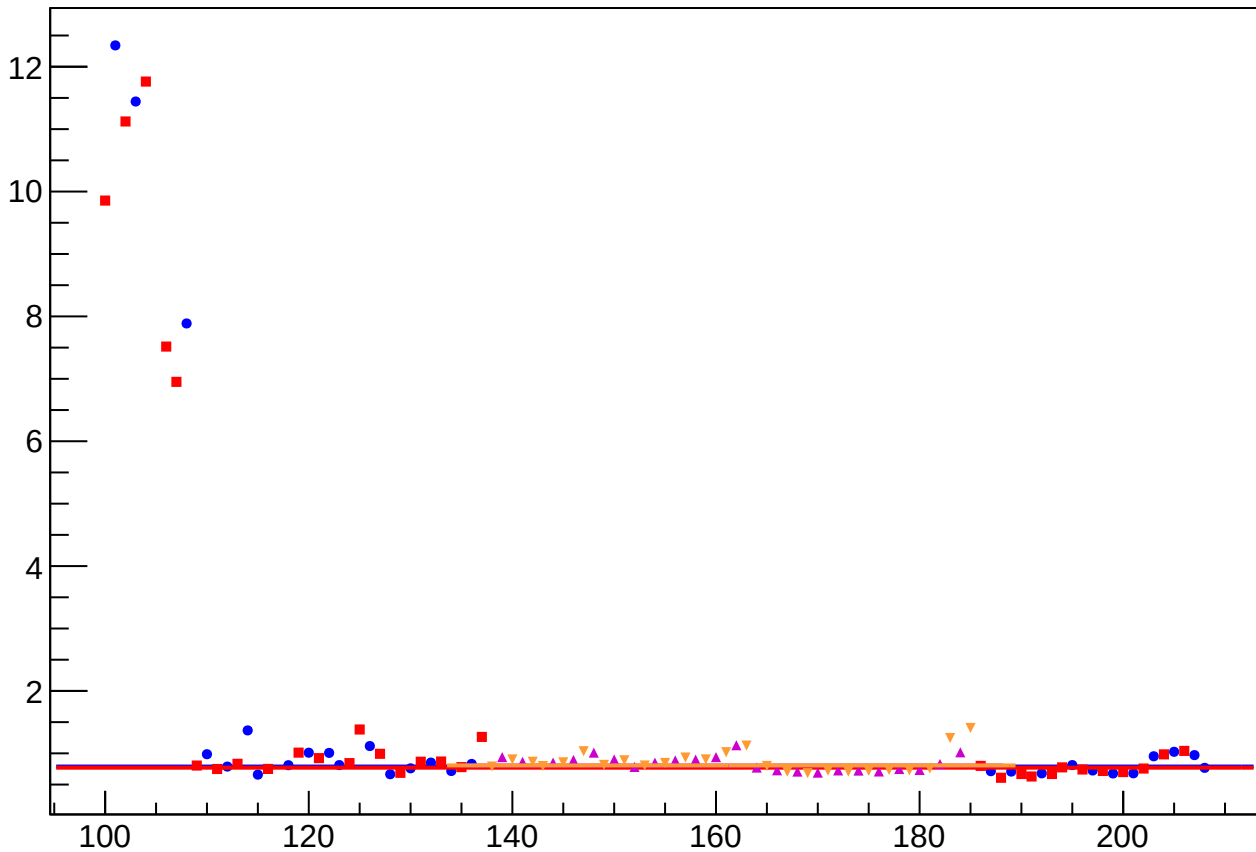
Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

All: 142.962+/-0.000

χ^2/NDF : 78513455349.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.788 $\pm$ 0.000 χ^2 /NDF: 3011896.2/27

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3299804.1/30

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

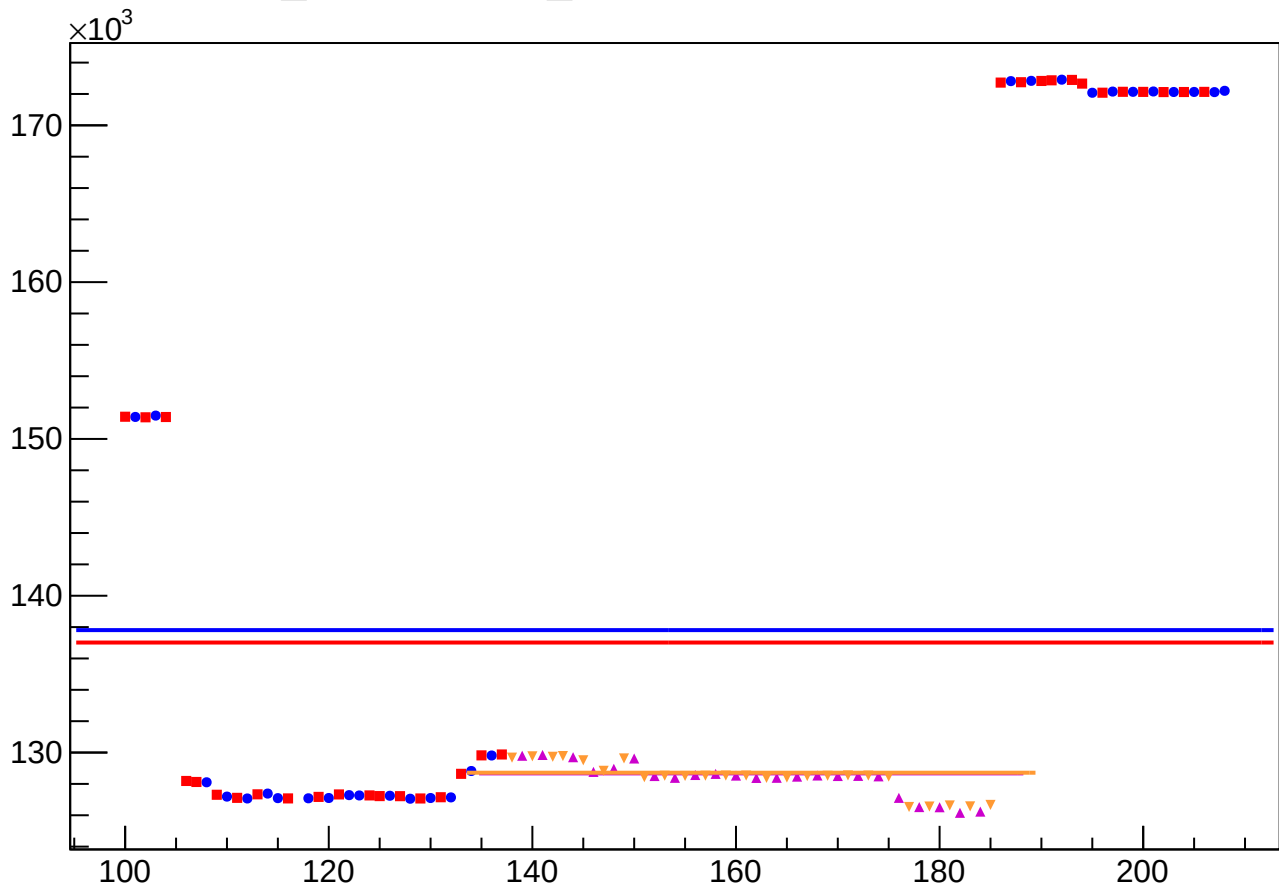
Right: 0.779 $\pm$ 0.000 χ^2 /NDF: 6317327.0/58

In: 0.798 $\pm$ 0.000 χ^2 /NDF:3496571.7/50

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:4030953.3/55

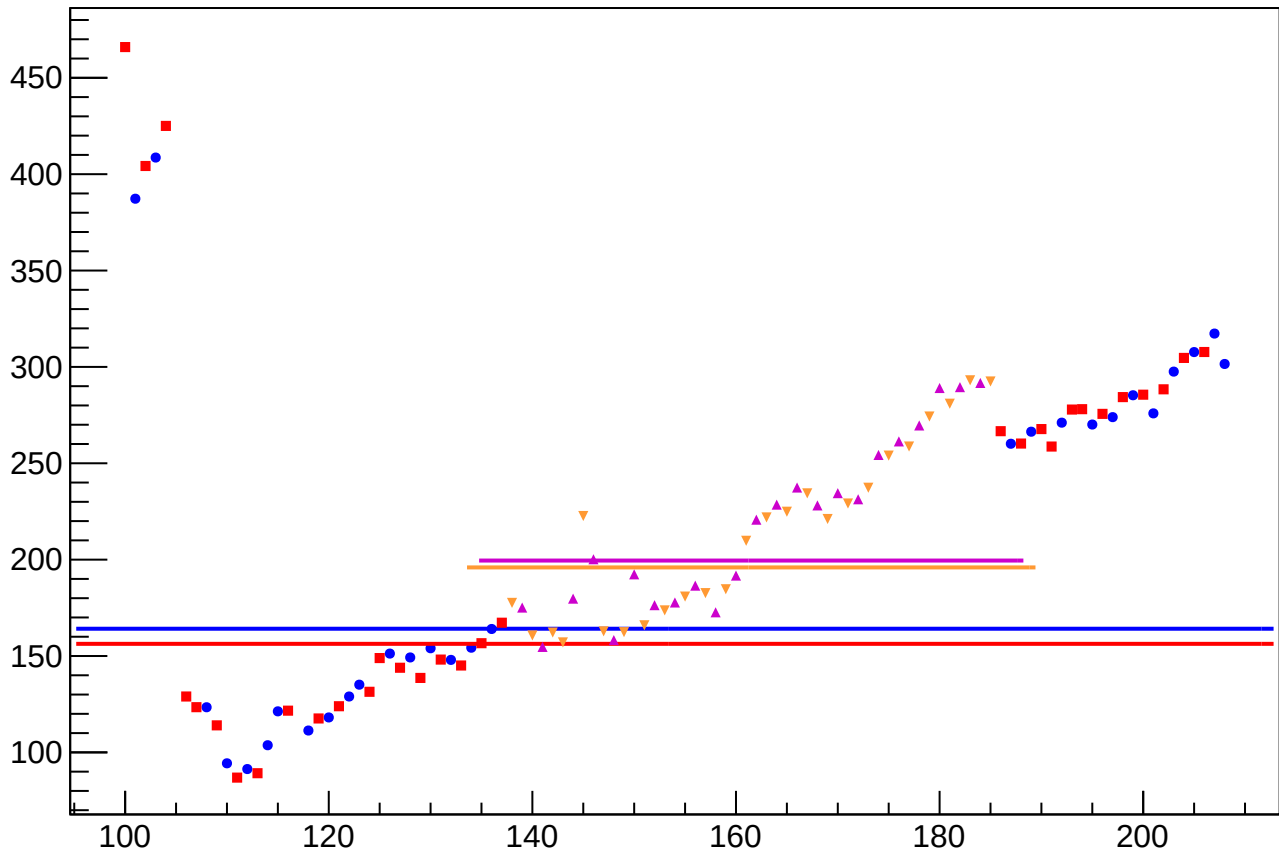
All: 0.794 $\pm$ 0.000 χ^2 /NDF: 7529420.8/106

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 137807.936 $\pm$ 0.048 χ^2 /NDF: 149408771981.1/27
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 137015.579 $\pm$ 0.045 χ^2 /NDF: 163078799239.1/30
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 137383.936 $\pm$ 0.033 χ^2 /NDF: 312632055656
 In: 133296.737 $\pm$ 0.034 χ^2 /NDF: 167472089225.9
 Out: 133019.288 $\pm$ 0.032 χ^2 /NDF: 179850390739
 All: 133149.929 $\pm$ 0.024 χ^2 /NDF: 347357077

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 164.153+/-0.034 χ^2/NDF : 5083902.9/27

Left Out: 195.964+/-0.033 χ^2/NDF :1316091.7/24

Right Out: 156.315+/-0.032 χ^2/NDF : 5494150.6/30

Left In: 199.531+/-0.035 χ^2/NDF :1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

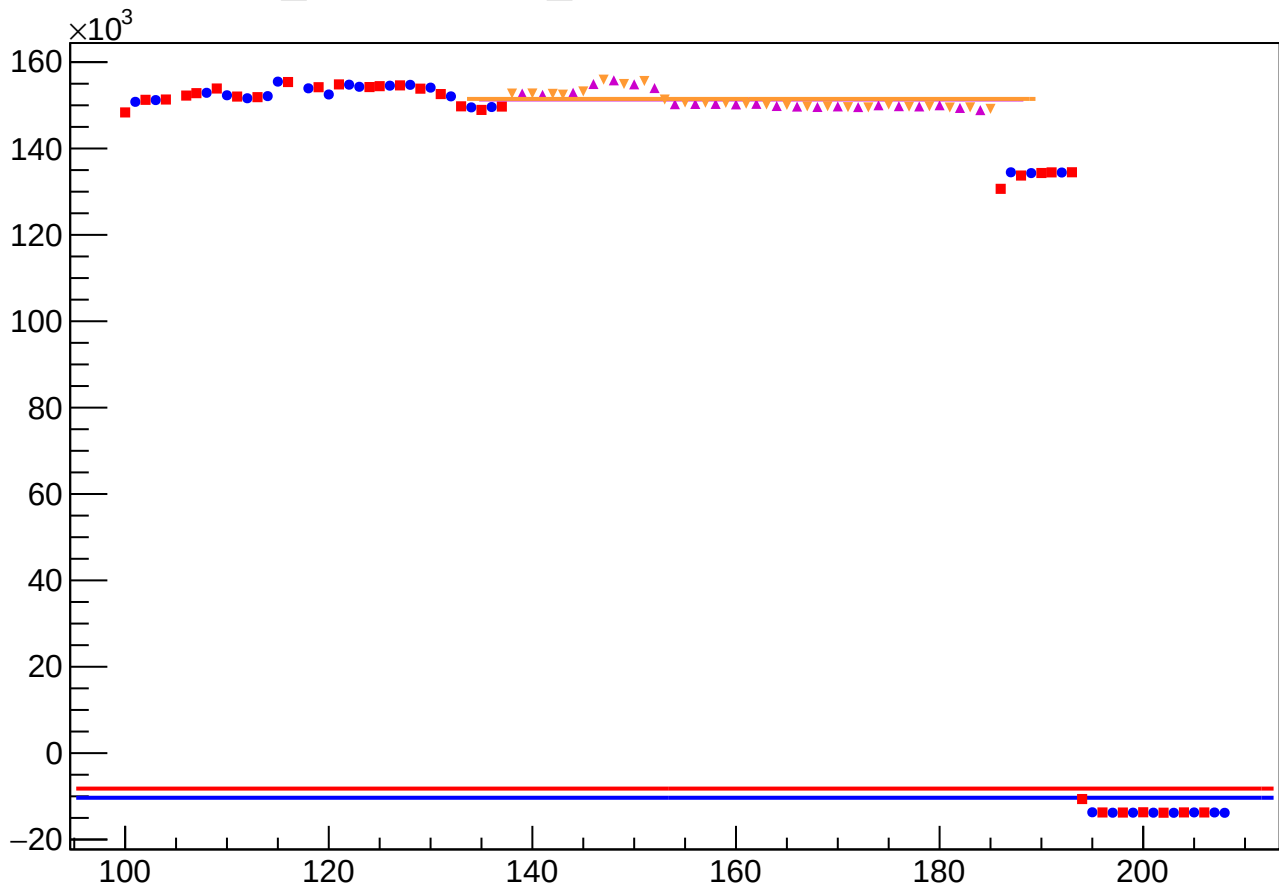
Right: 159.959+/-0.023 χ^2/NDF : 10606328.1/58

In: 181.619+/-0.024 χ^2/NDF :6790721.6/50

Out: 175.401+/-0.023 χ^2/NDF :7559453.5/55

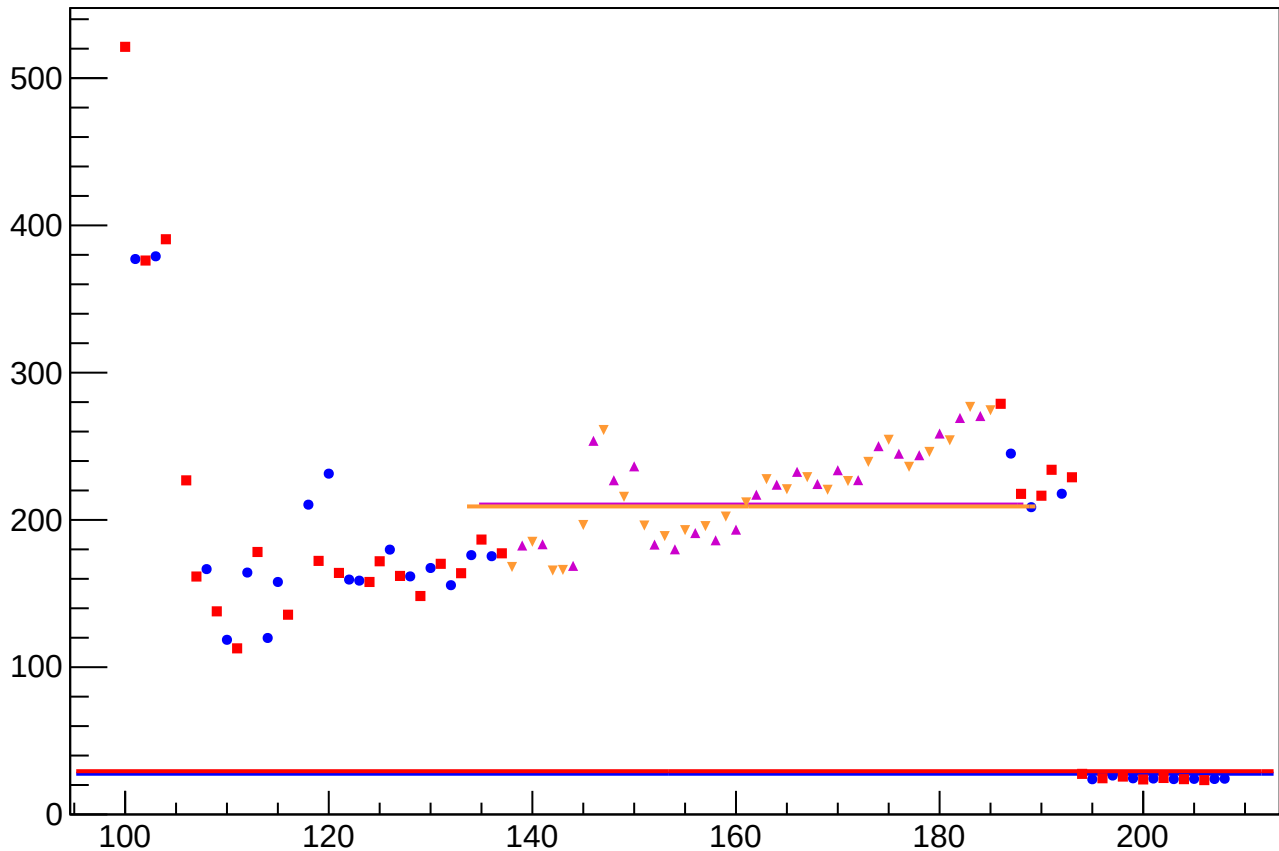
All: 178.329+/-0.017 χ^2/NDF : 14384923.1/10

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10331.531+/-0.010	$\chi^2/\text{NDF}: 5847746074549.3/27$	Left: 151423.440+/-0.036	$\chi^2/\text{NDF}: 2913216467.1/27$
Left Out: 151480.339+/-0.049	$\chi^2/\text{NDF}: 1483692735.3/24$	Right: -9388.979+/-0.007	$\chi^2/\text{NDF}: 1300577772615.3/24$
Right Out: -8209.051+/-0.011	$\chi^2/\text{NDF}: 7136822968950.3/30$	In: -4720.345+/-0.010	$\chi^2/\text{NDF}: 15467797471734.7/30$
Left In: 151362.440+/-0.051	$\chi^2/\text{NDF}: 1426782789.9/22$	Out: -859.162+/-0.011	$\chi^2/\text{NDF}: 17077963991382.4/22$
		All: -2994.413+/-0.007	$\chi^2/\text{NDF}: 3261895073.0/22$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.653+/-0.007 χ^2/NDF : 11388137.2/27

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 29.373+/-0.008 χ^2/NDF : 13453965.8/30

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

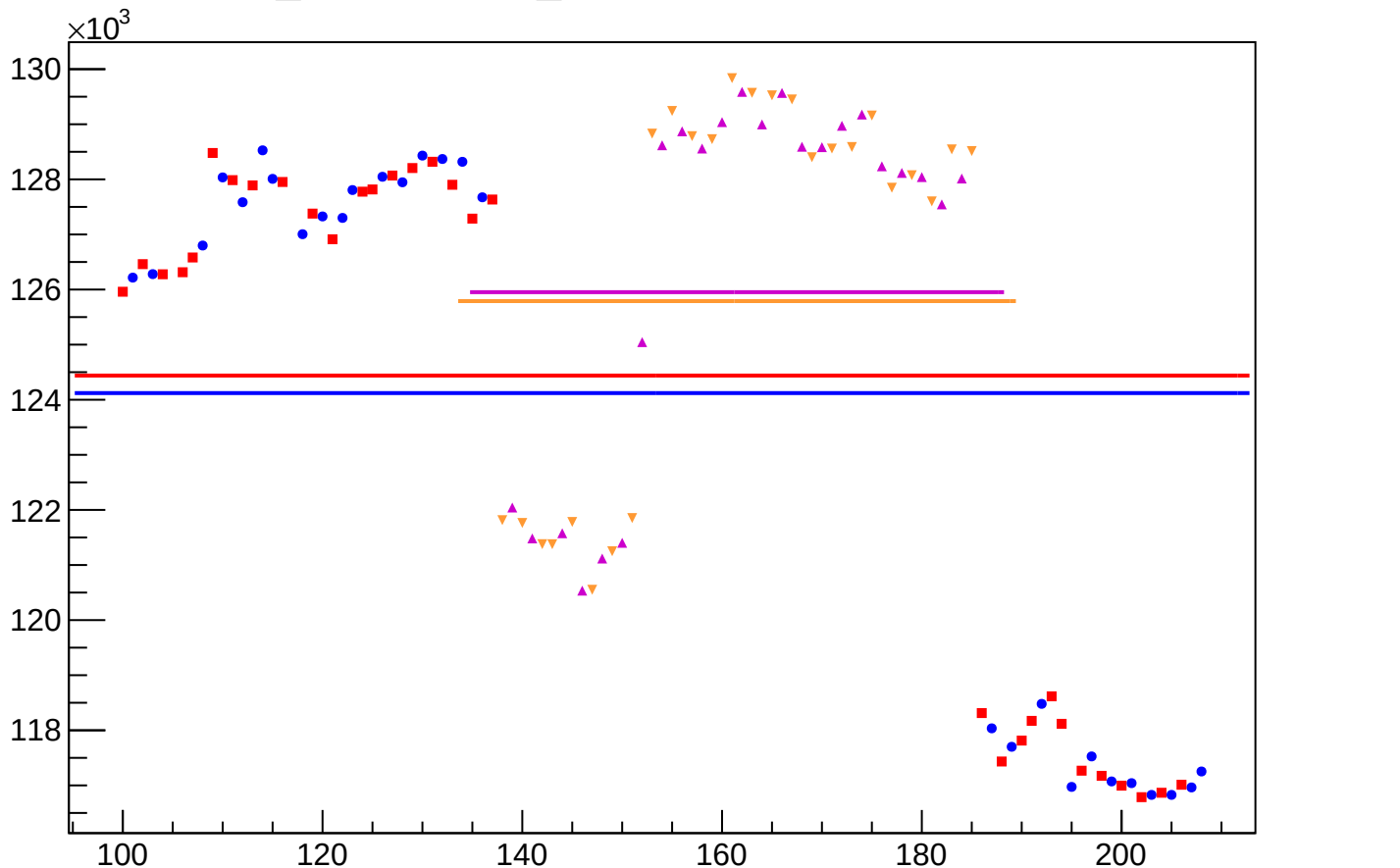
Right: 28.417+/-0.005 χ^2/NDF : 24869967.0/58

In: 33.996+/-0.007 χ^2/NDF : 36653322.2/50

Out: 37.648+/-0.008 χ^2/NDF : 39360823.2/55

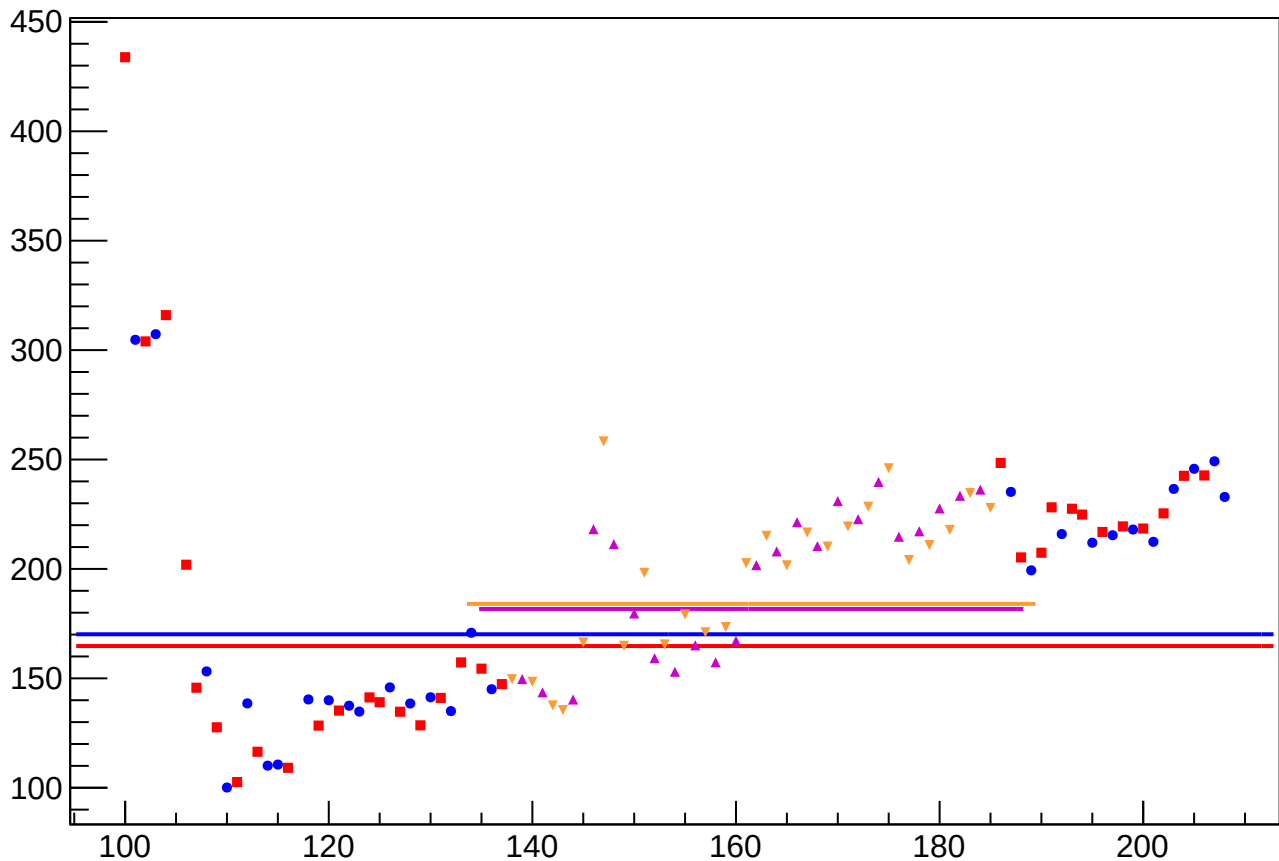
All: 35.628+/-0.005 χ^2/NDF : 76145101.1/106

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124120.877 $\pm$ 0.047	χ^2/NDF : 11113346698.1/27	Left: 125870.001 $\pm$ 0.031	χ^2/NDF : 12592819321.6/27
Left Out: 125790.126 $\pm$ 0.044	χ^2/NDF : 6744310079.8/24	Right: 124287.766 $\pm$ 0.033	χ^2/NDF : 22631496789.1/24
Right Out: 124438.843 $\pm$ 0.045	χ^2/NDF : 11494396937.8/30	In: 125088.479 $\pm$ 0.032	χ^2/NDF : 17748435697.3/30
Left In: 125952.447 $\pm$ 0.045	χ^2/NDF : 5841800367.5/22	Out: 125129.824 $\pm$ 0.031	χ^2/NDF : 18700398597.9/22
		All: 125109.815 $\pm$ 0.023	χ^2/NDF : 364496714.0/23

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 170.138 $\pm$ 0.033 χ^2 /NDF: 2219811.6/27

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 164.765 $\pm$ 0.032 χ^2 /NDF: 2625859.1/30

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

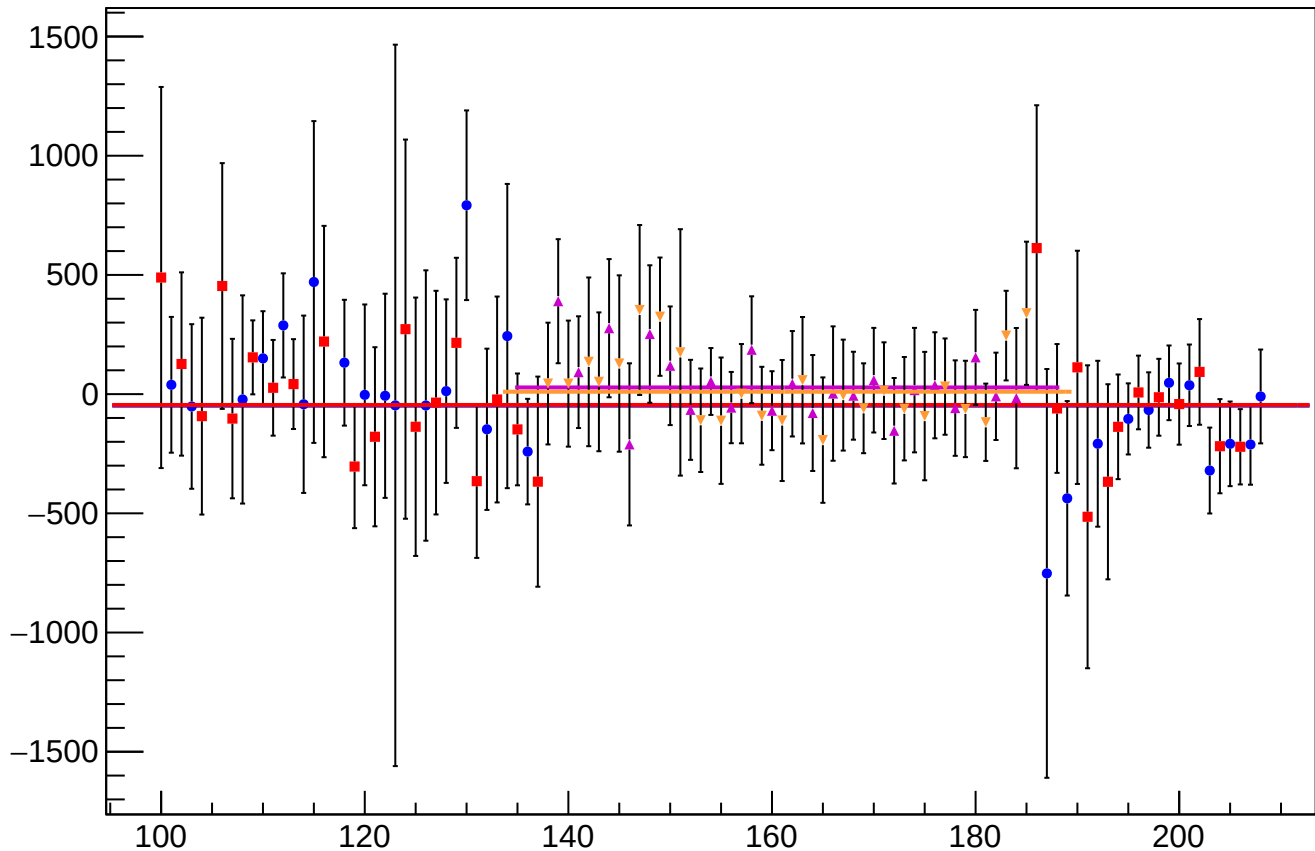
Right: 167.318 $\pm$ 0.023 χ^2 /NDF: 4859233.6/58

In: 176.253 $\pm$ 0.023 χ^2 /NDF: 3399331.5/50

Out: 174.616 $\pm$ 0.022 χ^2 /NDF: 3940115.8/55

All: 175.408 $\pm$ 0.016 χ^2 /NDF: 7342073.4/106

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -48.257 ± 46.826 χ^2/NDF : 16.7/27

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -45.491 ± 46.920 χ^2/NDF : 12.7/30

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

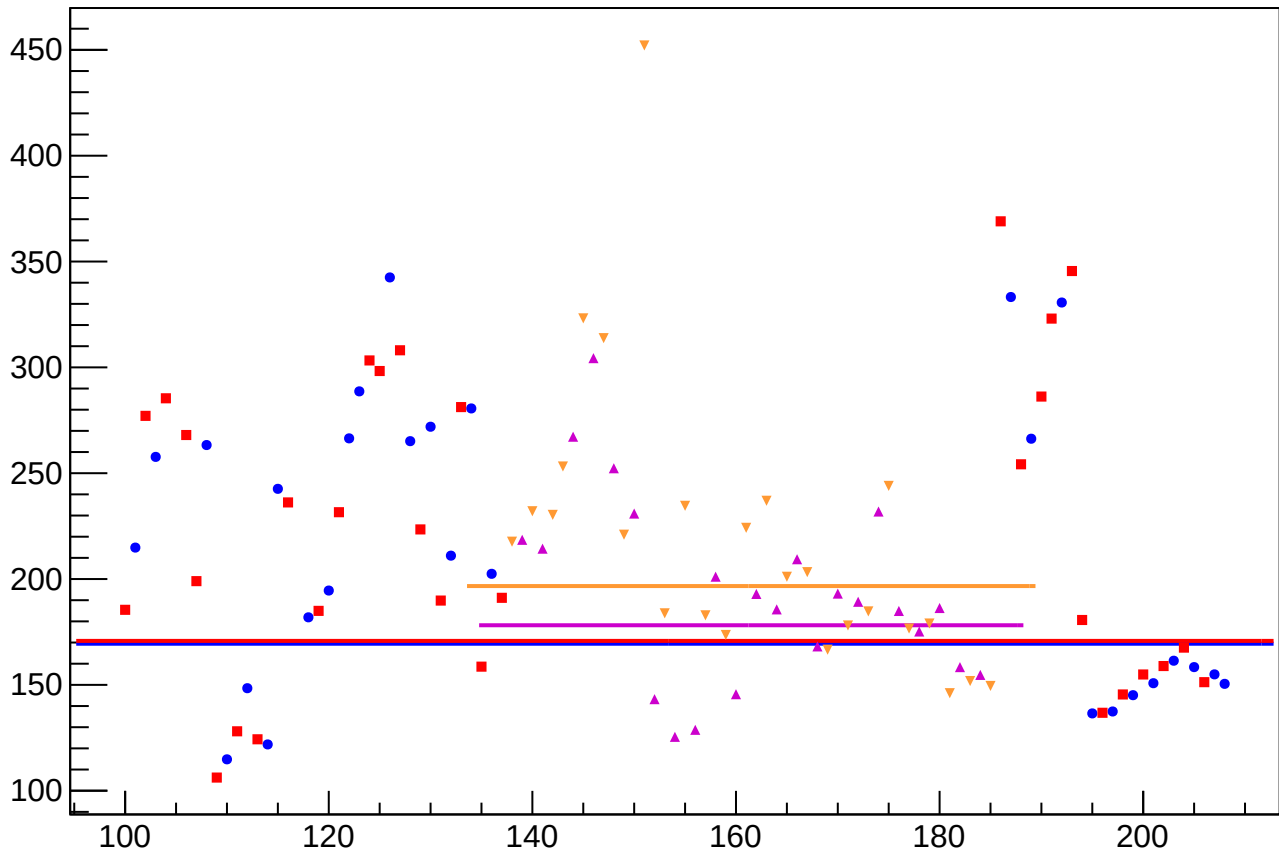
Right: -46.877 ± 33.144 χ^2/NDF : 29.4/58

In: -8.224 ± 32.285 χ^2/NDF : 25.1/50

Out: -18.041 ± 33.377 χ^2/NDF : 21.8/55

All: -12.969 ± 23.205 χ^2/NDF : 47.0/106

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.442 $\pm$ 0.033 χ^2 /NDF: 2119466.9/27

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 170.779 $\pm$ 0.033 χ^2 /NDF: 2779929.7/30

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

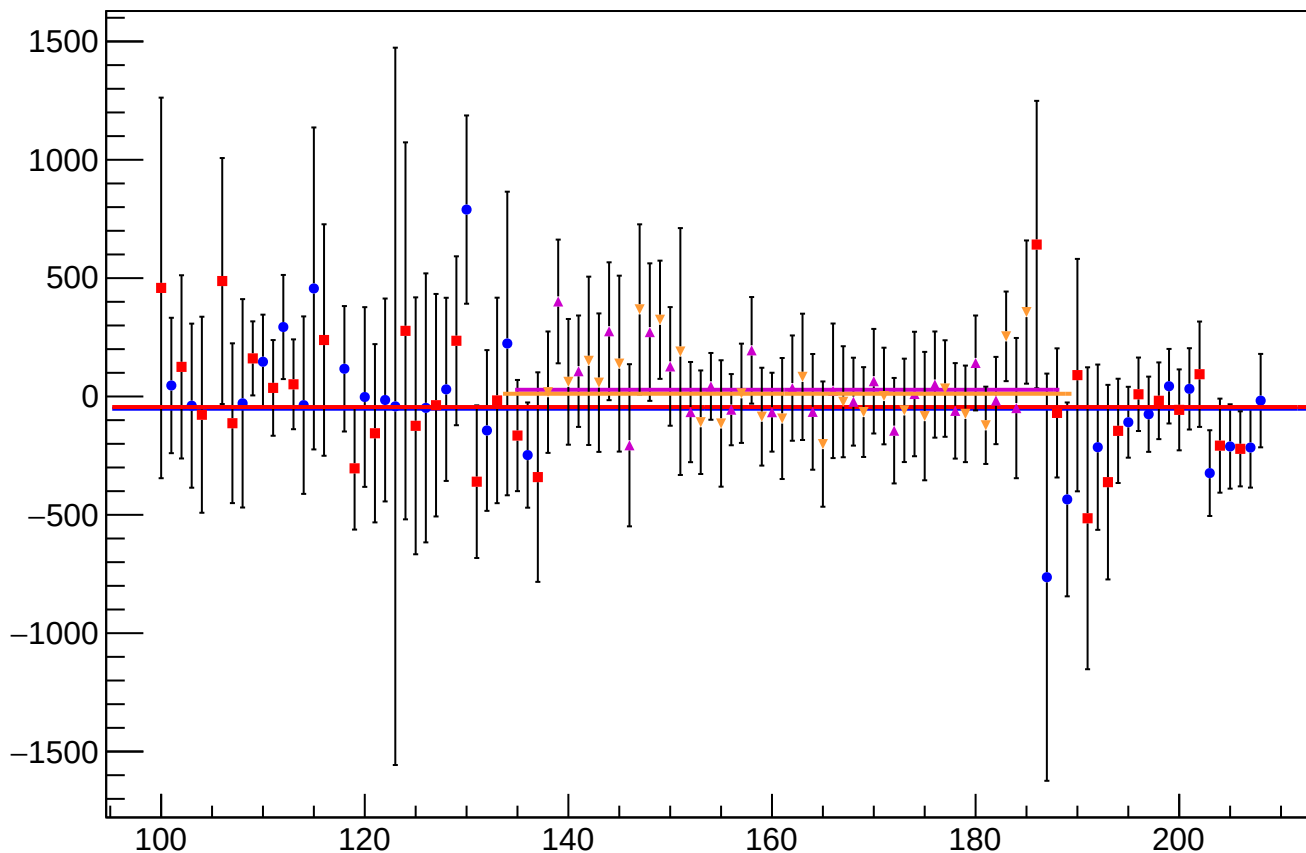
Right: 170.109 $\pm$ 0.023 χ^2 /NDF: 4900210.4/58

In: 174.019 $\pm$ 0.023 χ^2 /NDF:3774850.4/50

Out: 183.575 $\pm$ 0.024 χ^2 /NDF:4863736.4/55

All: 178.638 $\pm$ 0.016 χ^2 /NDF: 8723281.3/106

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -51.698 $\pm$ 47.047 χ^2/NDF : 16.7/27

Left Out: 11.479 $\pm$ 47.819 χ^2/NDF : 8.8/24

Right Out: -44.543 $\pm$ 47.156 χ^2/NDF : 12.9/30

Left In: 28.280 $\pm$ 44.863 χ^2/NDF : 7.1/22

Left: 20.415 $\pm$ 32.718 χ^2/NDF : 16.0/47

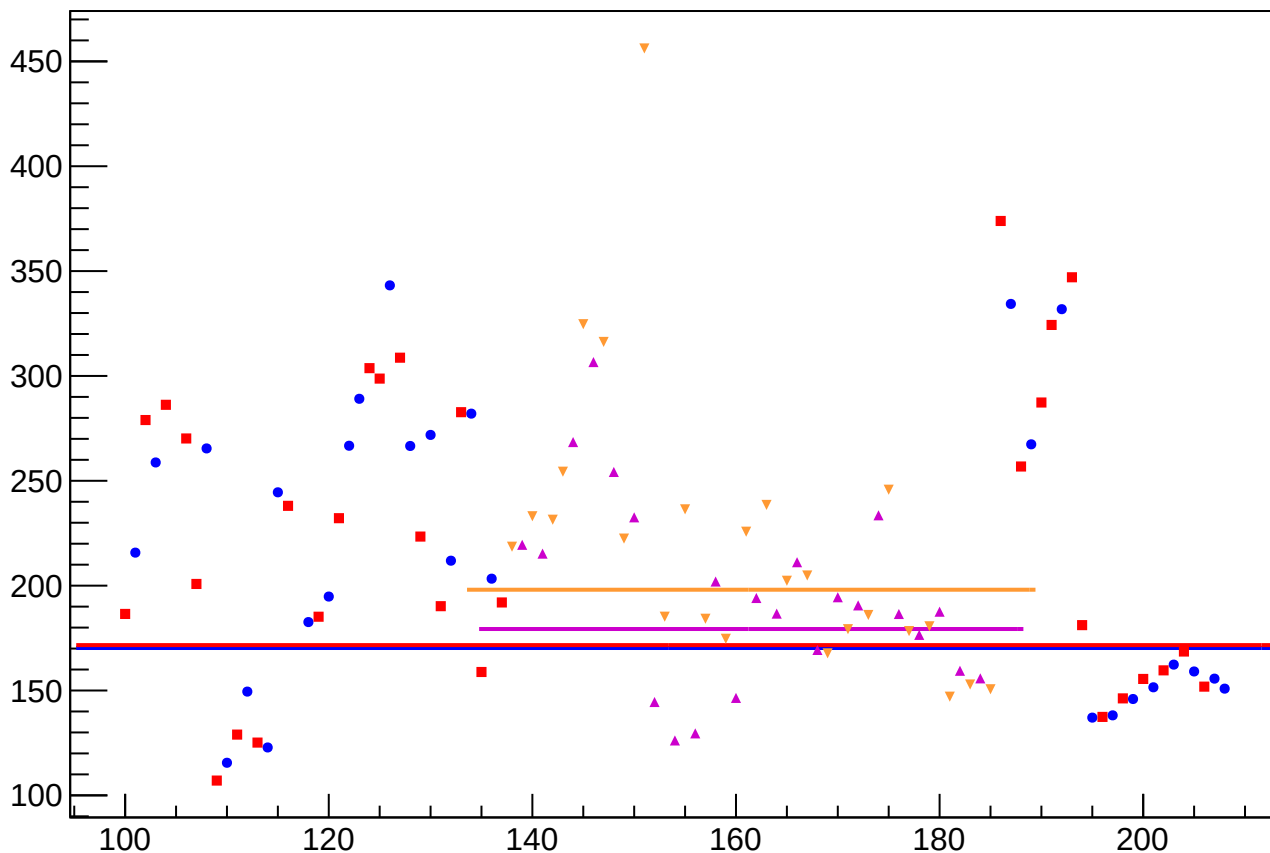
Right: -48.128 $\pm$ 33.306 χ^2/NDF : 29.6/58

In: -9.809 $\pm$ 32.468 χ^2/NDF : 25.3/50

Out: -16.923 $\pm$ 33.576 χ^2/NDF : 22.4/55

All: -13.247 $\pm$ 23.340 χ^2/NDF : 47.7/106

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.268+/-0.033 χ^2/NDF : 2111083.7/27

Left Out: 198.059+/-0.034 χ^2/NDF :1778526.5/24

Right Out: 171.650+/-0.033 χ^2/NDF : 2775338.1/30

Left In: 179.324+/-0.032 χ^2/NDF :1618266.2/22

Left: 188.094+/-0.023 χ^2/NDF : 3560073.1/47

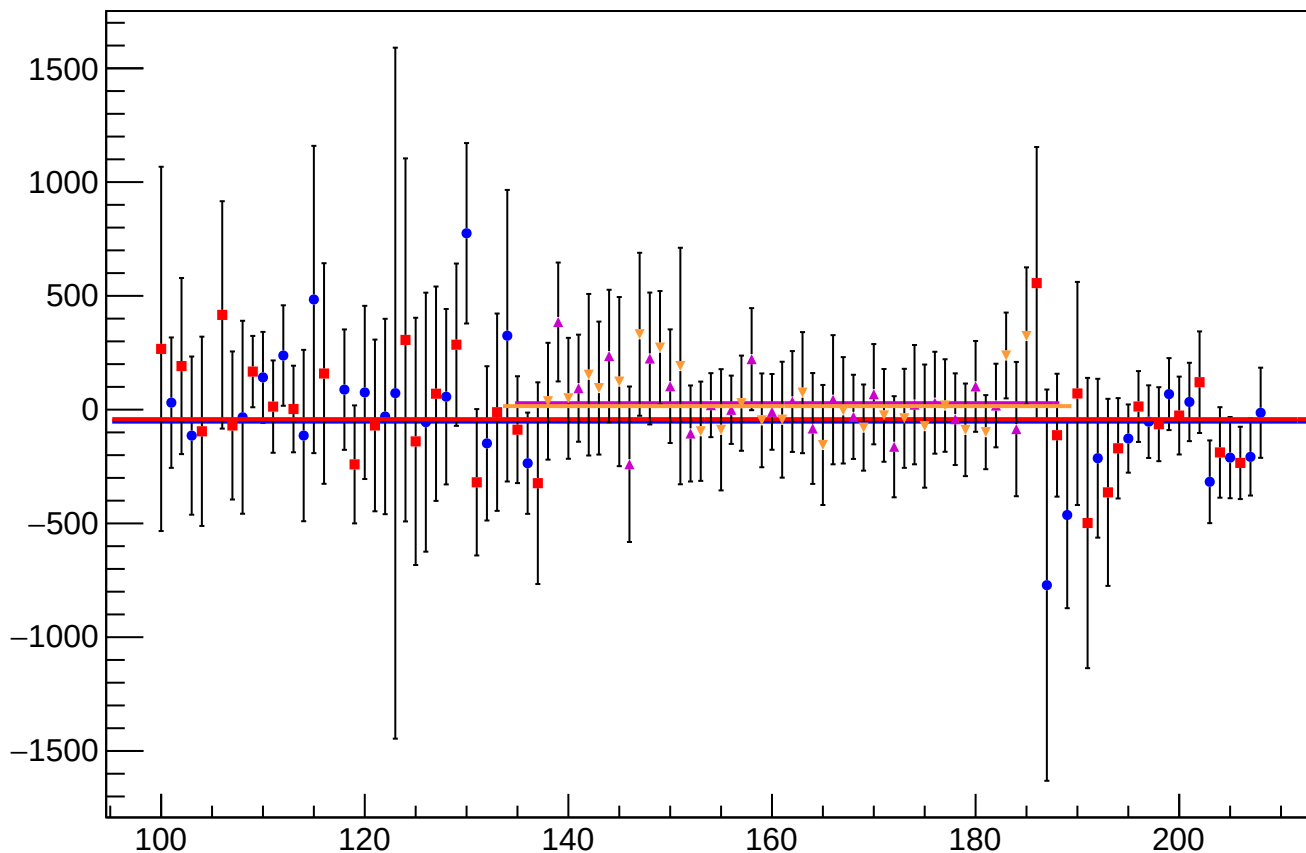
Right: 170.957+/-0.024 χ^2/NDF : 4887282.1/58

In: 175.011+/-0.023 χ^2/NDF :3768156.9/50

Out: 184.670+/-0.024 χ^2/NDF :4863124.5/55

All: 179.678+/-0.017 χ^2/NDF : 8716810.8/106

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -52.632 ± 47.131 $\chi^2/\text{NDF}: 16.2/27$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -41.709 ± 47.164 $\chi^2/\text{NDF}: 11.6/30$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

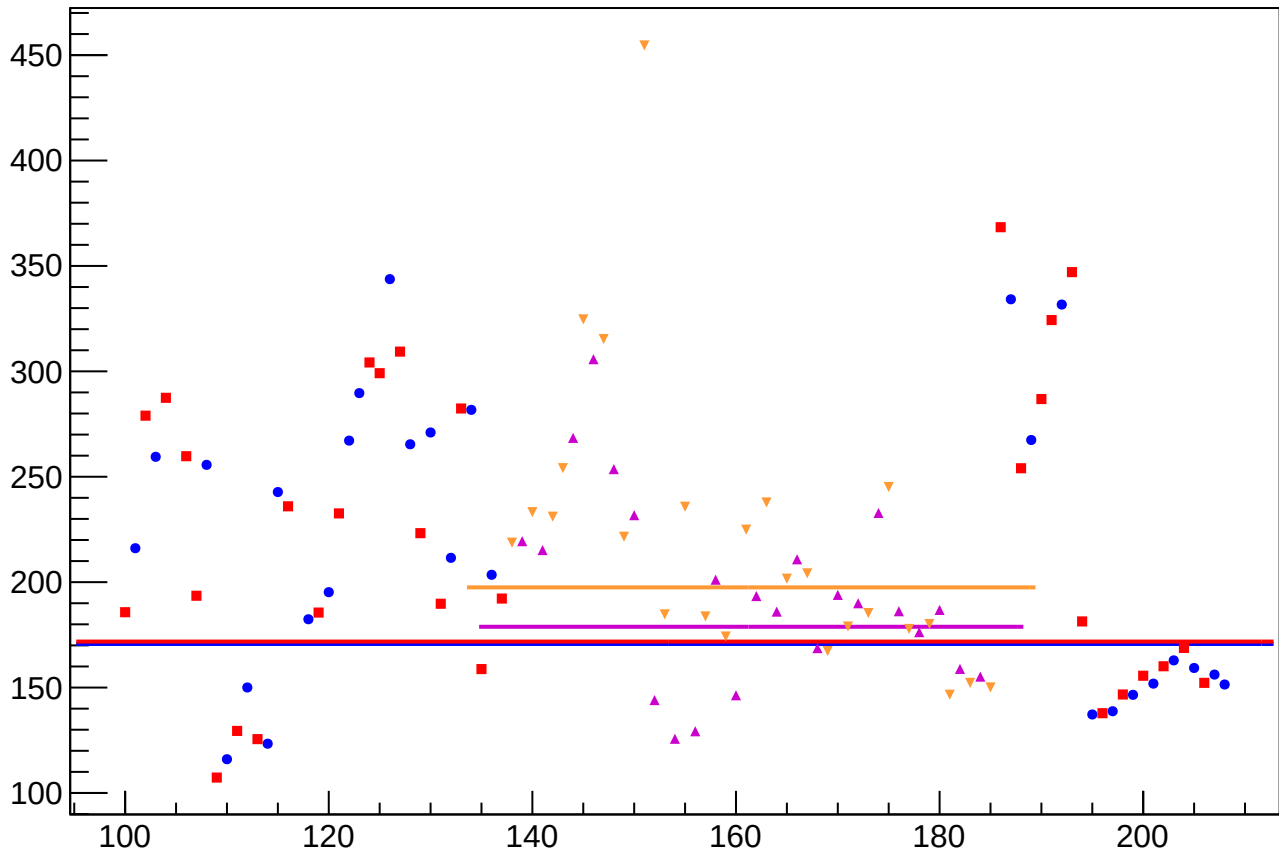
Right: -47.174 ± 33.338 $\chi^2/\text{NDF}: 27.8/58$

In: -10.076 ± 32.450 $\chi^2/\text{NDF}: 24.1/50$

Out: -13.456 ± 33.536 $\chi^2/\text{NDF}: 19.3/55$

All: -11.710 ± 23.320 $\chi^2/\text{NDF}: 43.4/106$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 170.674 $\pm$ 0.033 χ^2 /NDF: 2079262.7/27

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 171.820 $\pm$ 0.033 χ^2 /NDF: 2730187.6/30

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

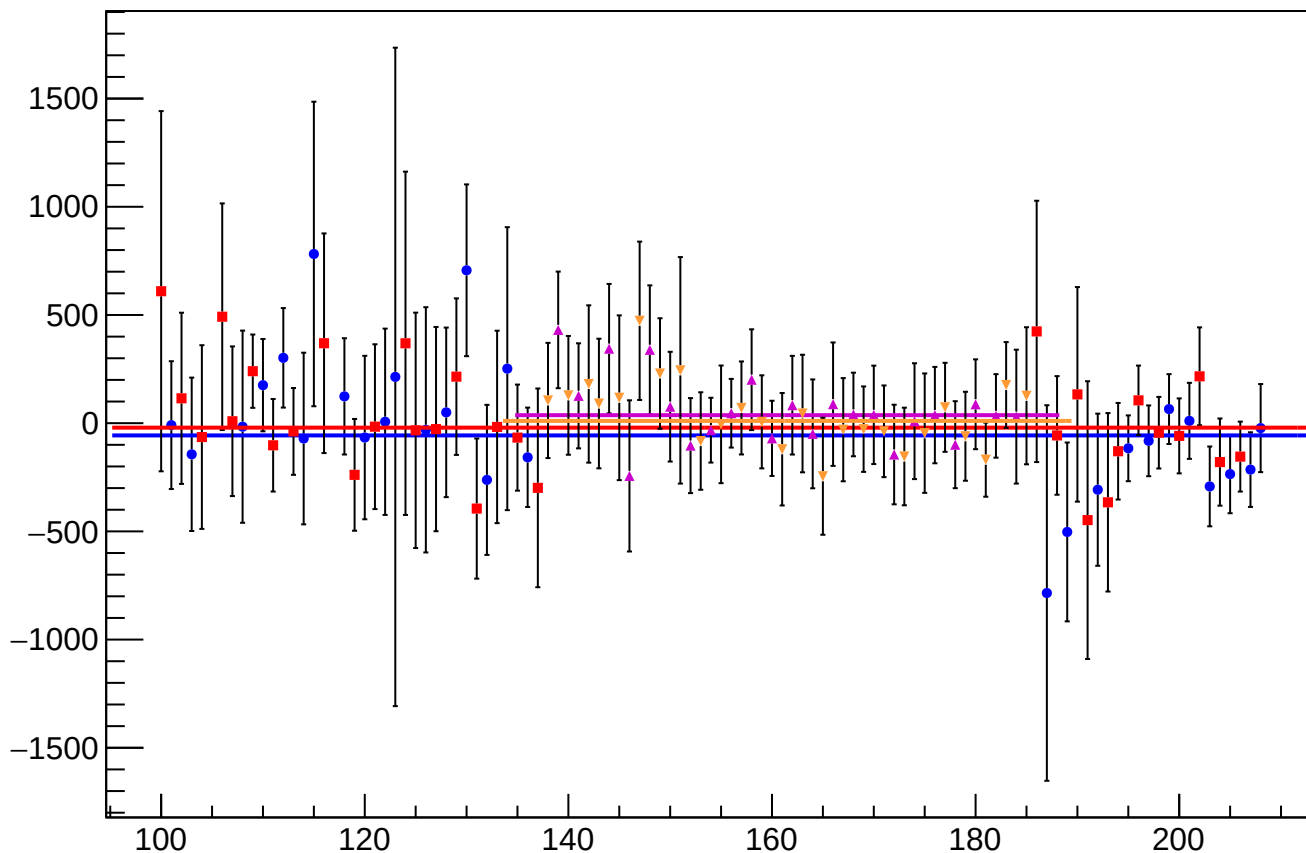
Right: 171.246 $\pm$ 0.024 χ^2 /NDF: 4810040.9/58

In: 174.967 $\pm$ 0.023 χ^2 /NDF:3733076.7/50

Out: 184.530 $\pm$ 0.024 χ^2 /NDF:4808193.3/55

All: 179.591 $\pm$ 0.016 χ^2 /NDF: 8625258.7/106

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.561 ± 48.192 χ^2/NDF : 16.9/27

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -20.690 ± 48.480 χ^2/NDF : 13.0/30

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

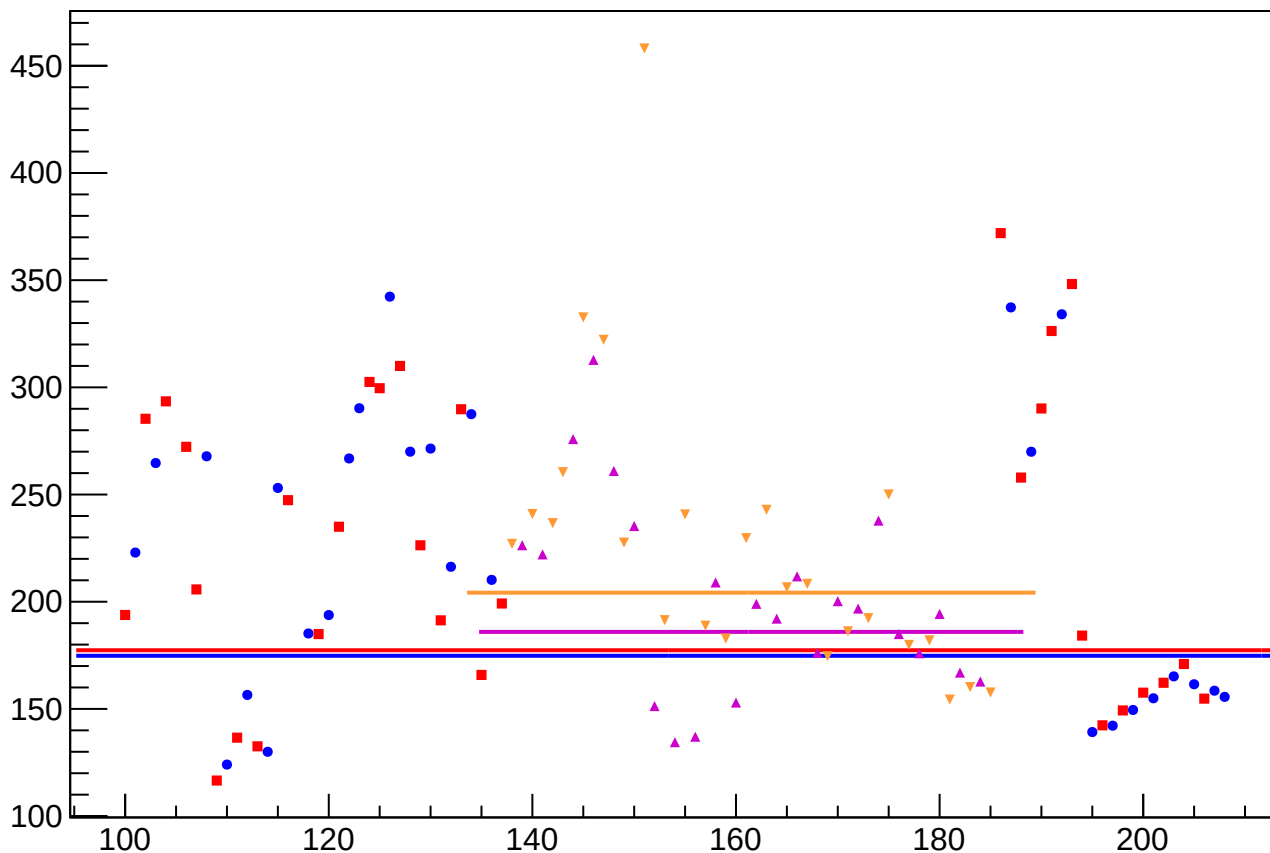
Right: -38.733 ± 34.178 χ^2/NDF : 30.2/58

In: -7.966 ± 33.409 χ^2/NDF : 26.8/50

Out: -5.307 ± 34.531 χ^2/NDF : 20.7/55

All: -6.680 ± 24.011 χ^2/NDF : 47.5/106

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 174.794+/-0.034 χ^2/NDF : 2006434.9/27

Left Out: 204.236+/-0.035 χ^2/NDF :1675666.0/24

Right Out: 177.371+/-0.034 χ^2/NDF : 2545893.8/30

Left In: 185.931+/-0.033 χ^2/NDF :1460065.0/22

Left: 194.540+/-0.024 χ^2/NDF : 3282383.3/47

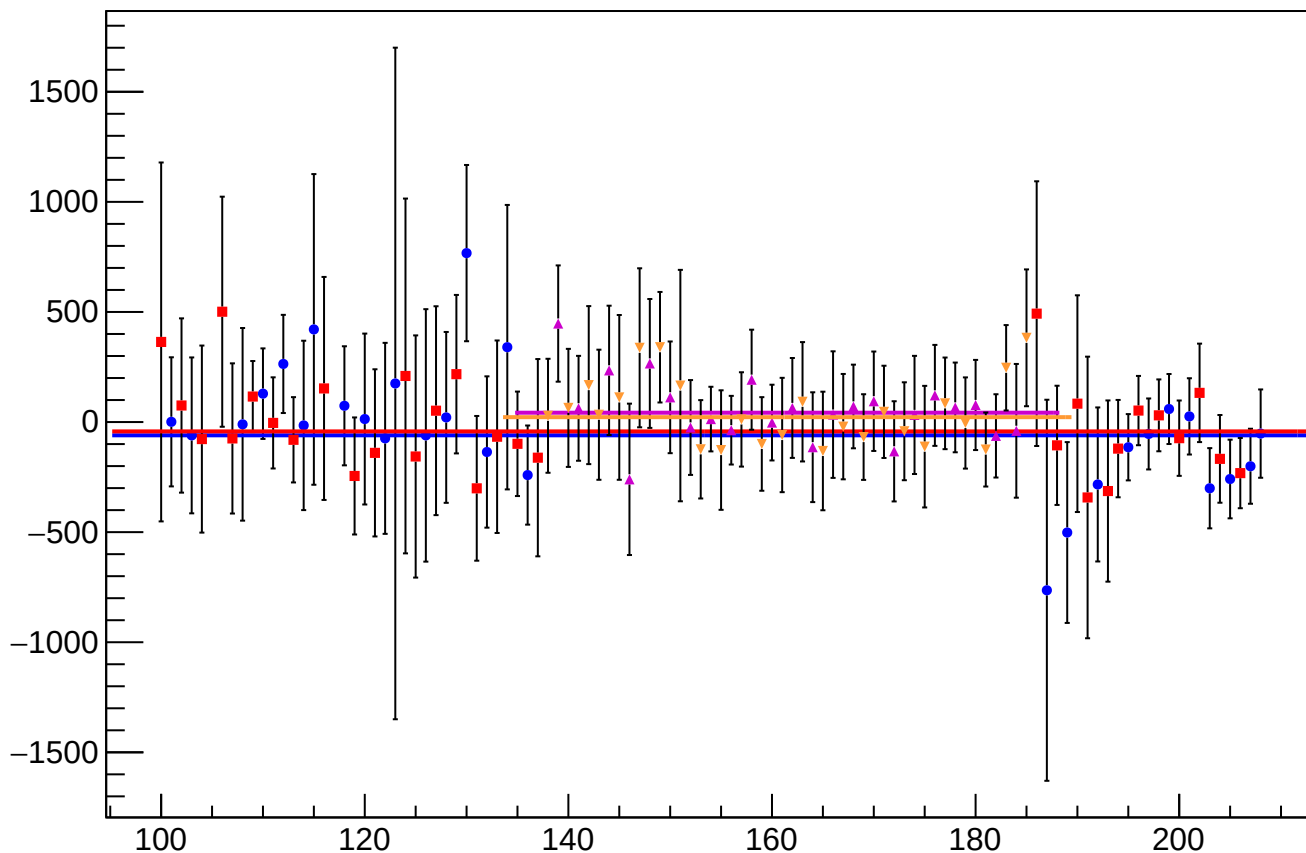
Right: 176.075+/-0.024 χ^2/NDF : 4555170.3/58

In: 180.579+/-0.024 χ^2/NDF :3521981.1/50

Out: 190.606+/-0.024 χ^2/NDF :4524133.6/55

All: 185.427+/-0.017 χ^2/NDF : 8133225.1/106

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -60.243 ± 47.580 $\chi^2/\text{NDF}: 16.0/27$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -42.456 ± 47.708 $\chi^2/\text{NDF}: 9.4/30$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

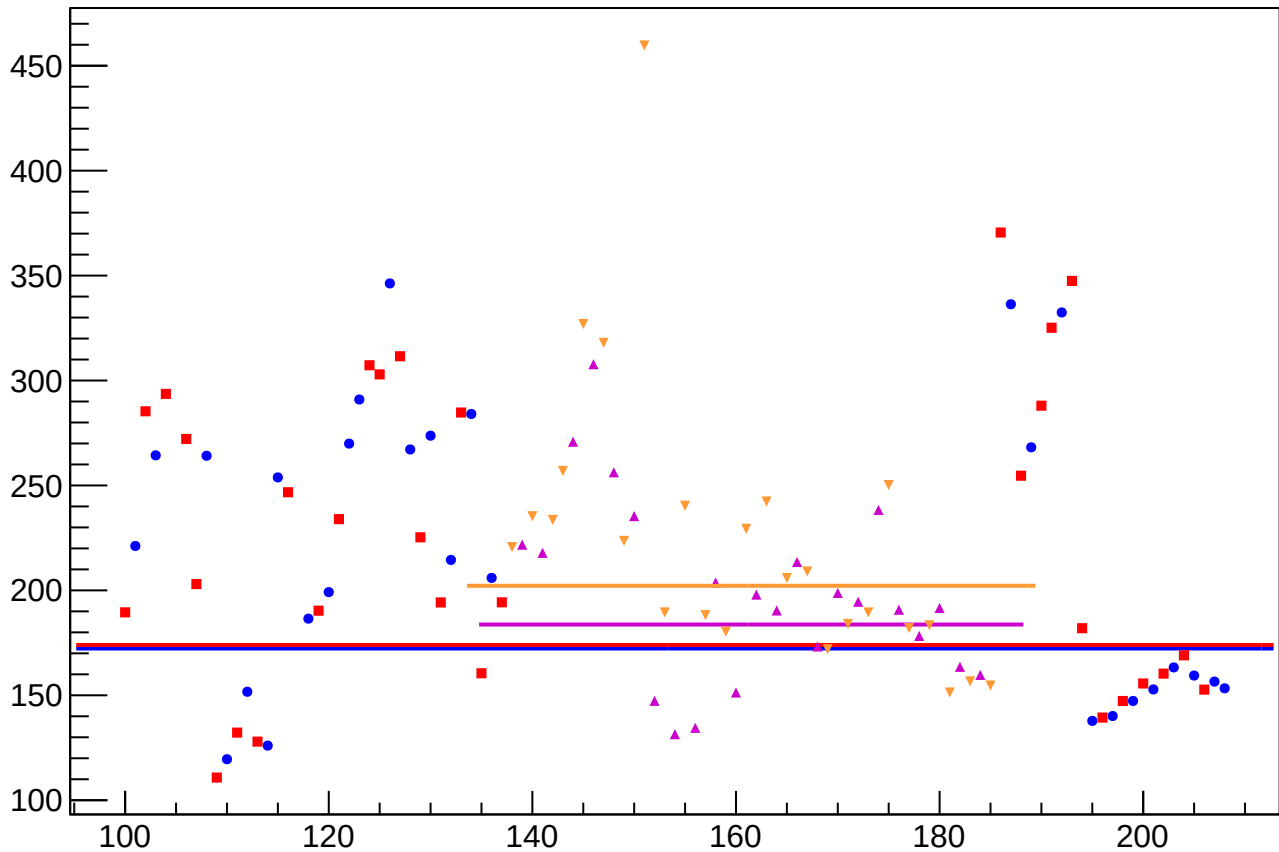
Right: -51.374 ± 33.689 $\chi^2/\text{NDF}: 25.5/58$

In: -7.010 ± 33.019 $\chi^2/\text{NDF}: 25.2/50$

Out: -10.824 ± 34.093 $\chi^2/\text{NDF}: 18.7/55$

All: -8.856 ± 23.719 $\chi^2/\text{NDF}: 43.9/106$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.305 ± 0.034 $\chi^2/\text{NDF}: 2088481.0/27$

Left Out: 202.186 ± 0.034 $\chi^2/\text{NDF}: 1696571.9/24$

Right Out: 173.957 ± 0.034 $\chi^2/\text{NDF}: 2709043.8/30$

Left In: 183.732 ± 0.032 $\chi^2/\text{NDF}: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/\text{NDF}: 3344580.1/47$

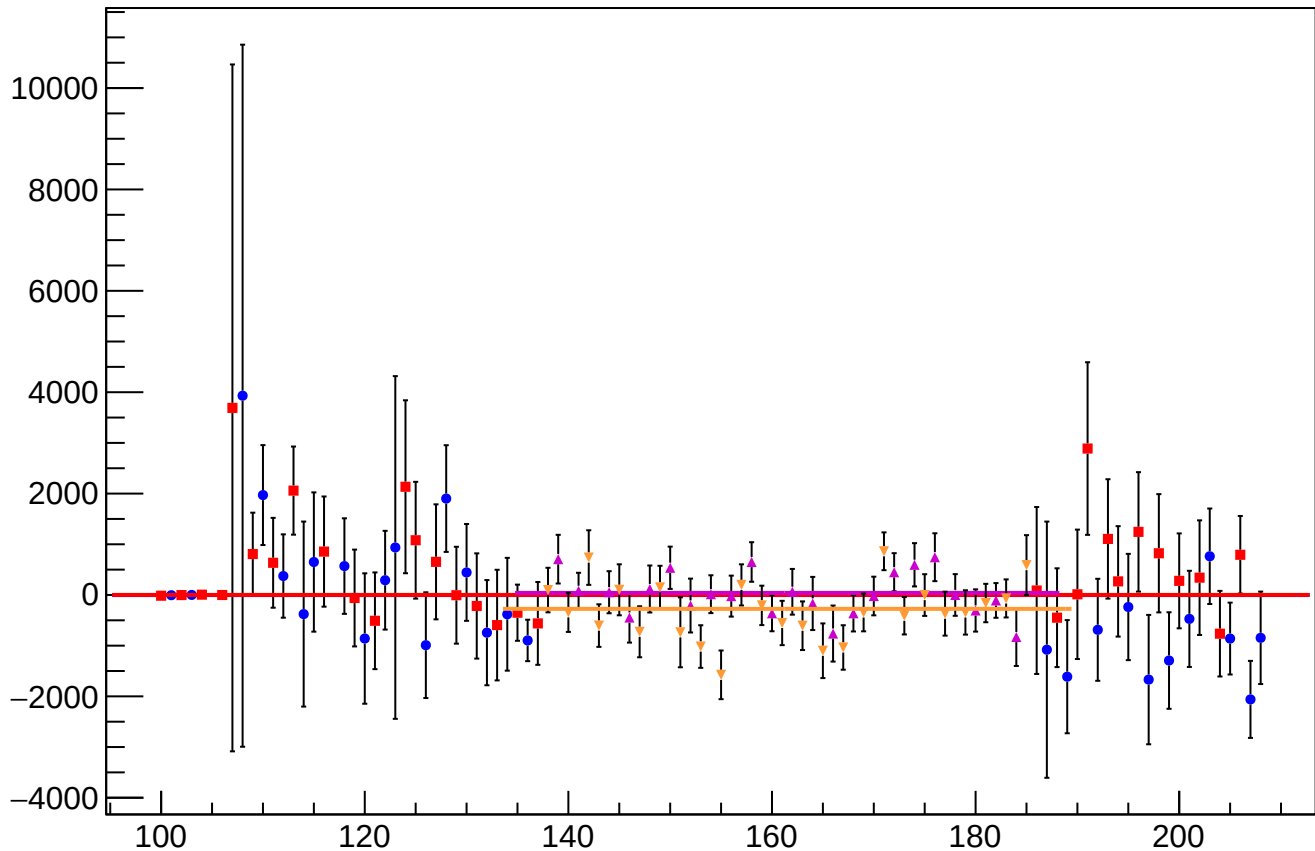
Right: 173.129 ± 0.024 $\chi^2/\text{NDF}: 4798726.7/58$

In: 178.229 ± 0.023 $\chi^2/\text{NDF}: 3644213.8/50$

Out: 187.770 ± 0.024 $\chi^2/\text{NDF}: 4748258.6/55$

All: 182.847 ± 0.017 $\chi^2/\text{NDF}: 8473296.9/106$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.583 ± 2.251 χ^2/NDF : 33.8/27

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.748 ± 2.111 χ^2/NDF : 25.9/30

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

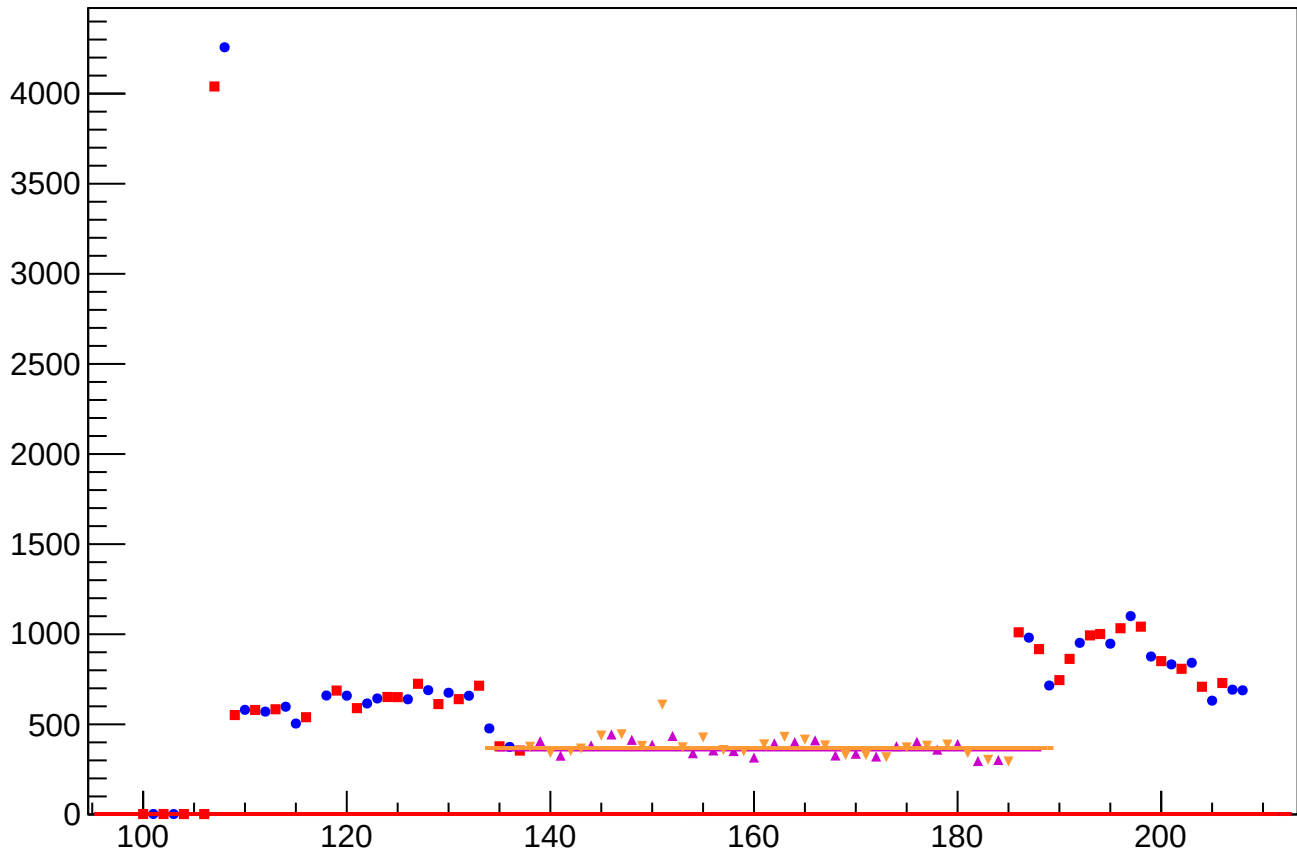
Right: -0.342 ± 1.540 χ^2/NDF : 60.3/58

In: -1.555 ± 2.251 χ^2/NDF : 54.2/50

Out: 0.586 ± 2.110 χ^2/NDF : 74.2/55

All: -0.416 ± 1.539 χ^2/NDF : 128.9/106

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.503 $\pm$ 0.002 χ^2 /NDF: 25833472.4/27

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.477 $\pm$ 0.001 χ^2 /NDF: 26879535.6/30

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

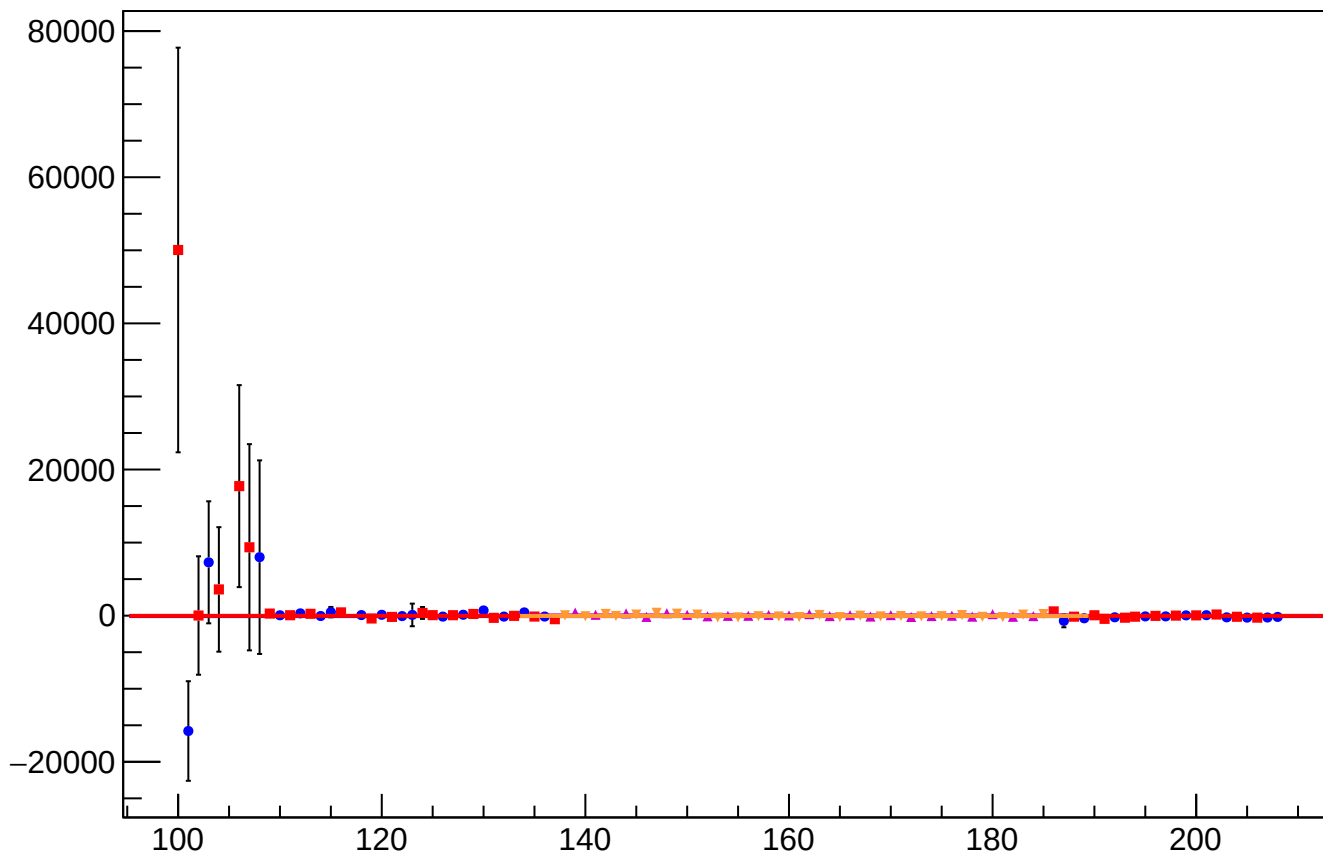
Right: 2.489 $\pm$ 0.001 χ^2 /NDF: 52713155.4/58

In: 2.740 $\pm$ 0.002 χ^2 /NDF: 59748651.8/50

Out: 2.693 $\pm$ 0.001 χ^2 /NDF: 62988711.5/55

All: 2.715 $\pm$ 0.001 χ^2 /NDF: 122737837.6/106

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -56.234+/-52.127 χ^2/NDF : 20.4/27

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -24.662+/-53.289 χ^2/NDF : 20.0/30

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

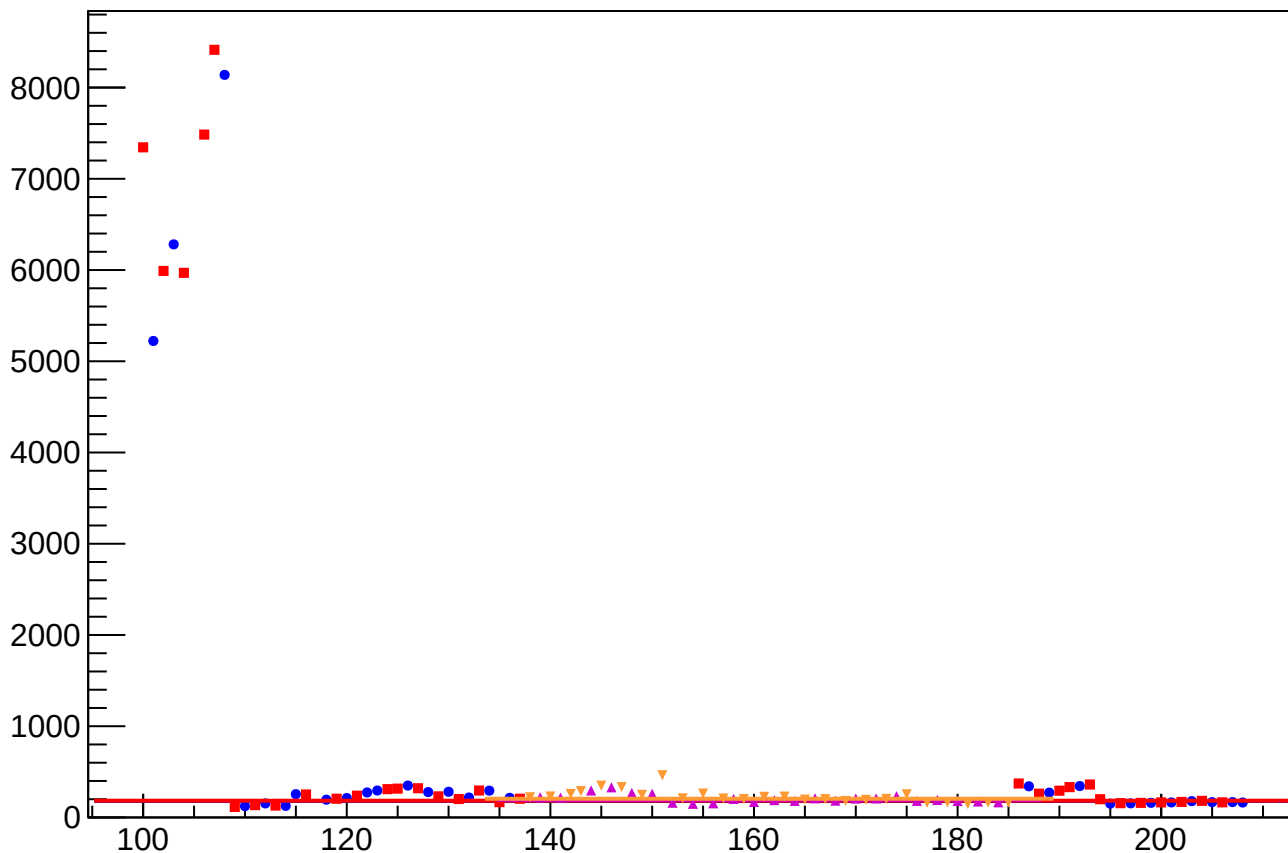
Right: -40.795+/-37.263 χ^2/NDF : 40.6/58

In: -10.645+/-35.323 χ^2/NDF : 31.4/50

Out: -32.367+/-36.297 χ^2/NDF : 29.2/55

All: -21.210+/-25.314 χ^2/NDF : 60.8/106

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.145+/-0.037 χ^2/NDF : 4517917.0/27

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 183.464+/-0.038 χ^2/NDF : 5354367.0/30

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

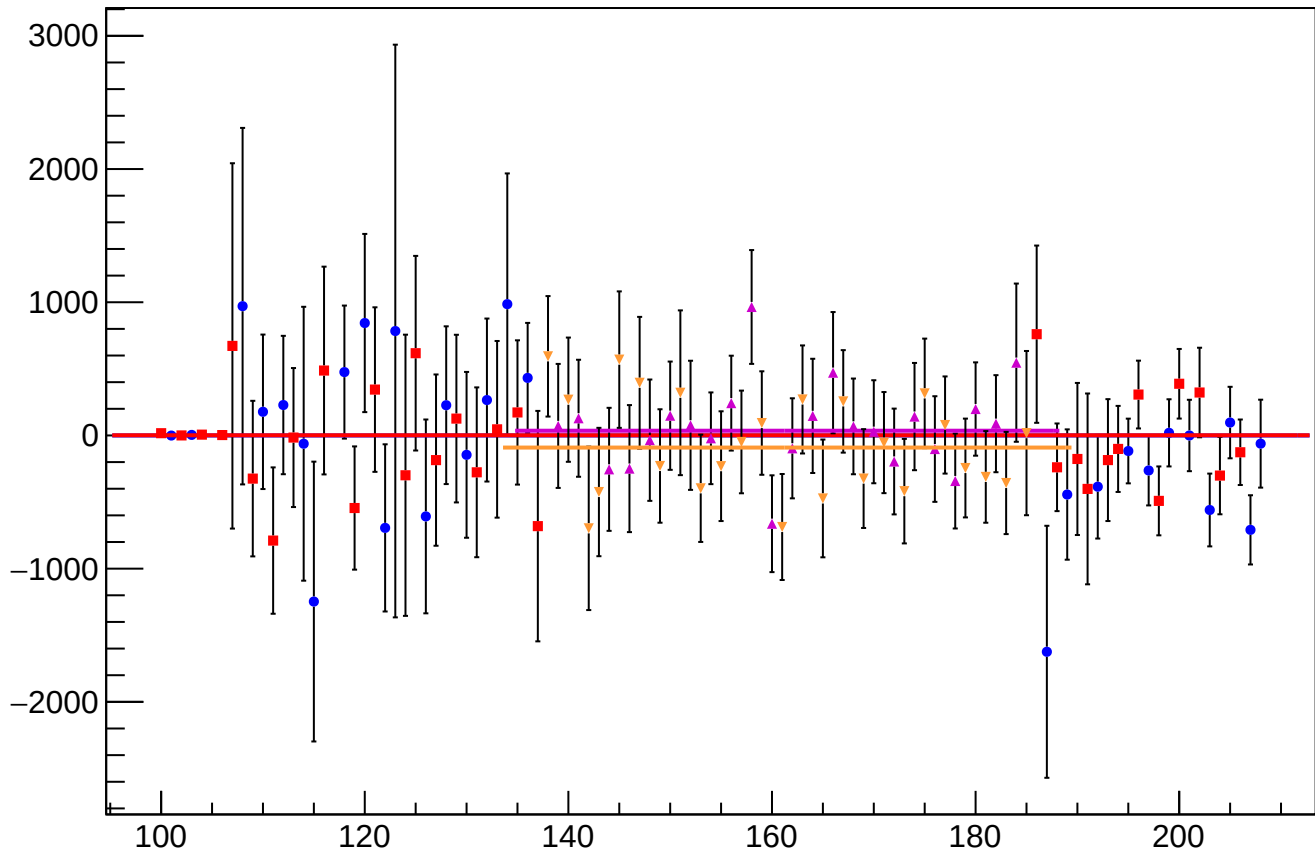
Right: 181.768+/-0.026 χ^2/NDF : 9876247.6/58

In: 187.431+/-0.025 χ^2/NDF :5769620.7/50

Out: 195.069+/-0.026 χ^2/NDF :7488807.5/55

All: 191.146+/-0.018 χ^2/NDF : 13303921.6/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.228 ± 1.736 $\chi^2/\text{NDF}: 27.9/27$

Left Out: -90.945 ± 84.079 $\chi^2/\text{NDF}: 16.4/24$

Right Out: 1.313 ± 1.622 $\chi^2/\text{NDF}: 21.3/30$

Left In: 35.488 ± 84.382 $\chi^2/\text{NDF}: 13.4/22$

Left: -27.956 ± 59.560 $\chi^2/\text{NDF}: 31.0/47$

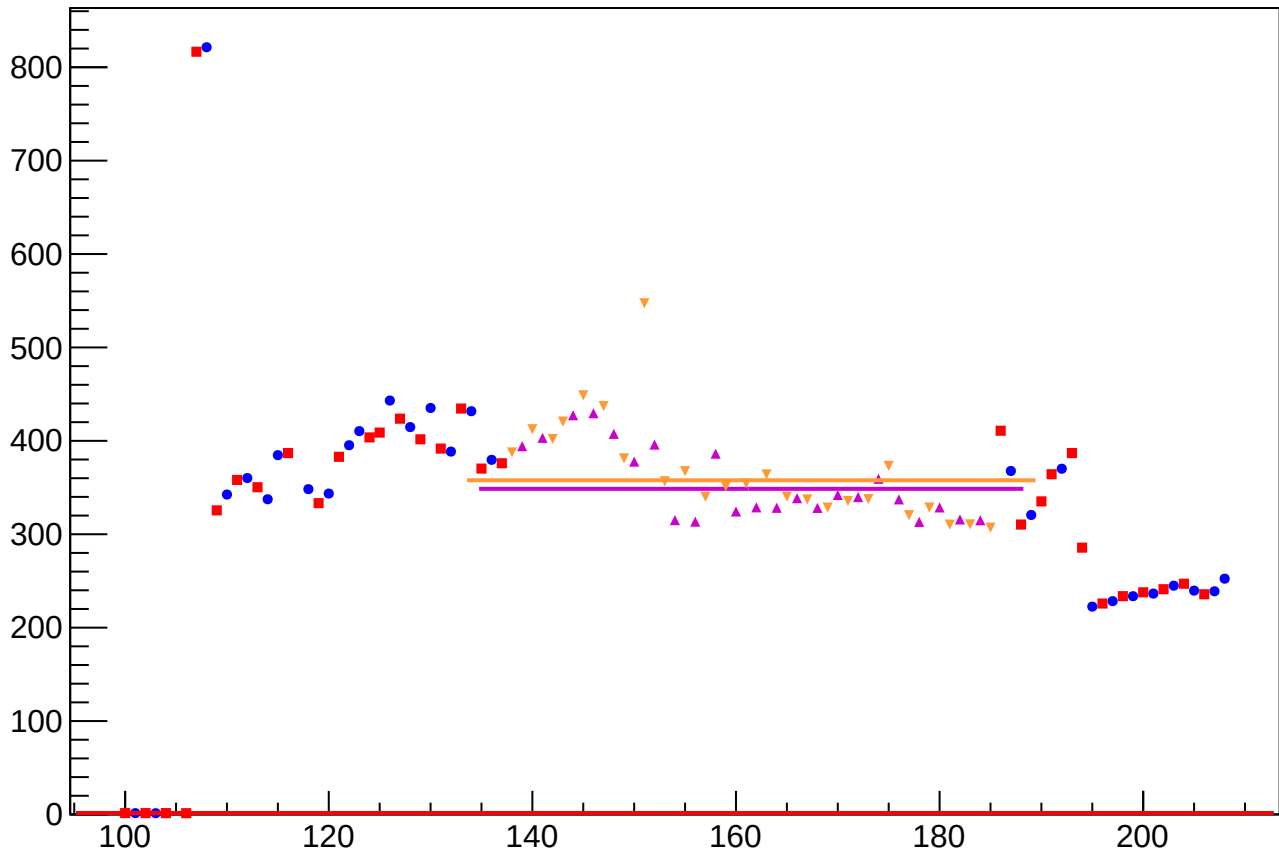
Right: 0.595 ± 1.185 $\chi^2/\text{NDF}: 49.6/58$

In: -0.213 ± 1.736 $\chi^2/\text{NDF}: 41.5/50$

Out: 1.279 ± 1.622 $\chi^2/\text{NDF}: 38.9/55$

All: 0.584 ± 1.185 $\chi^2/\text{NDF}: 80.8/106$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.544+/-0.001 χ^2/NDF : 26092394.8/27

Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24

Right Out: 1.528+/-0.001 χ^2/NDF : 26575471.3/30

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

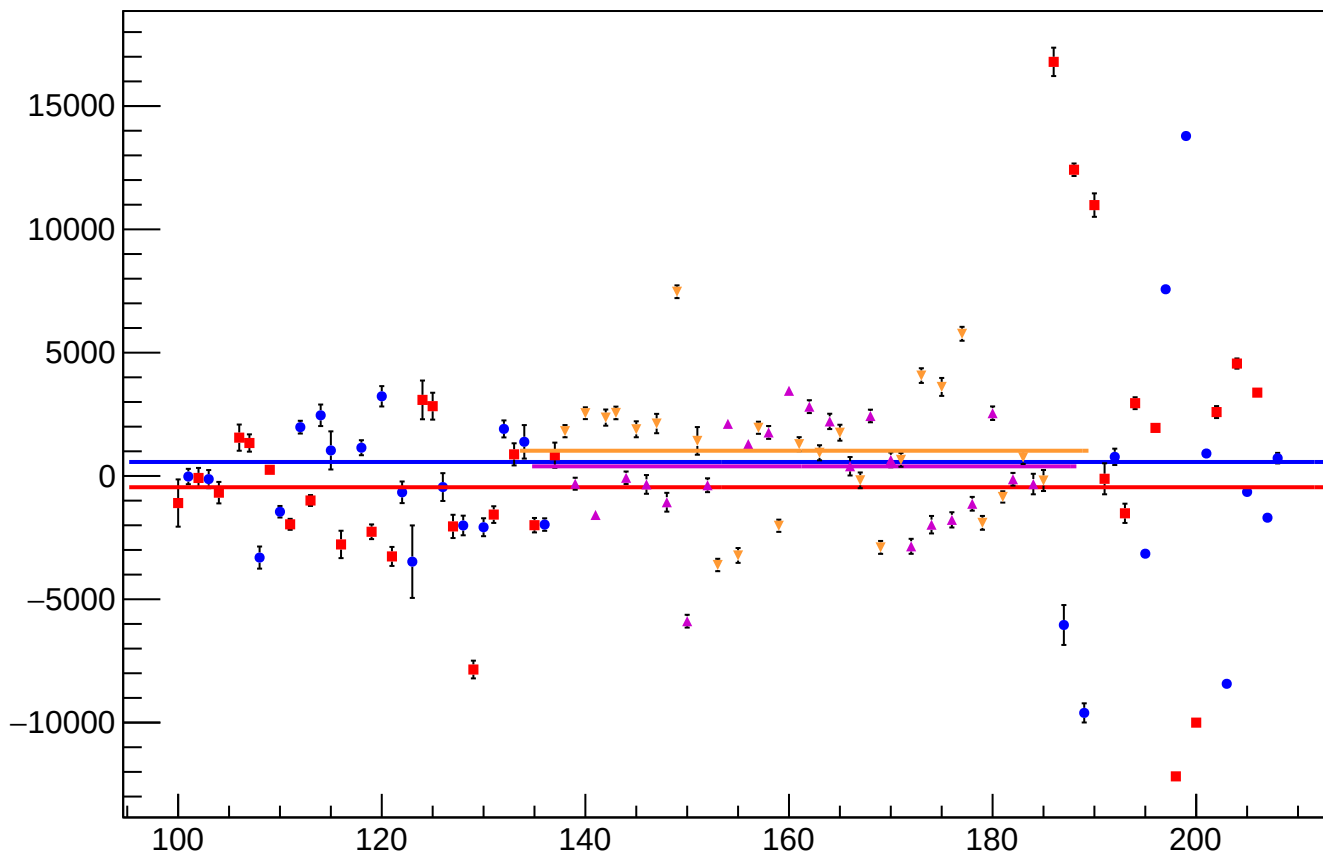
Right: 1.536+/-0.001 χ^2/NDF : 52667954.9/58

In: 1.691+/-0.001 χ^2/NDF : 60274584.8/50

Out: 1.661+/-0.001 χ^2/NDF : 63020554.3/55

All: 1.675+/-0.001 χ^2/NDF : 123295460.6/106

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 567.421 ± 51.761 $\chi^2/\text{NDF}: 11007.9/27$

Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$

Right Out: -456.540 ± 51.559 $\chi^2/\text{NDF}: 13208.9/30$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

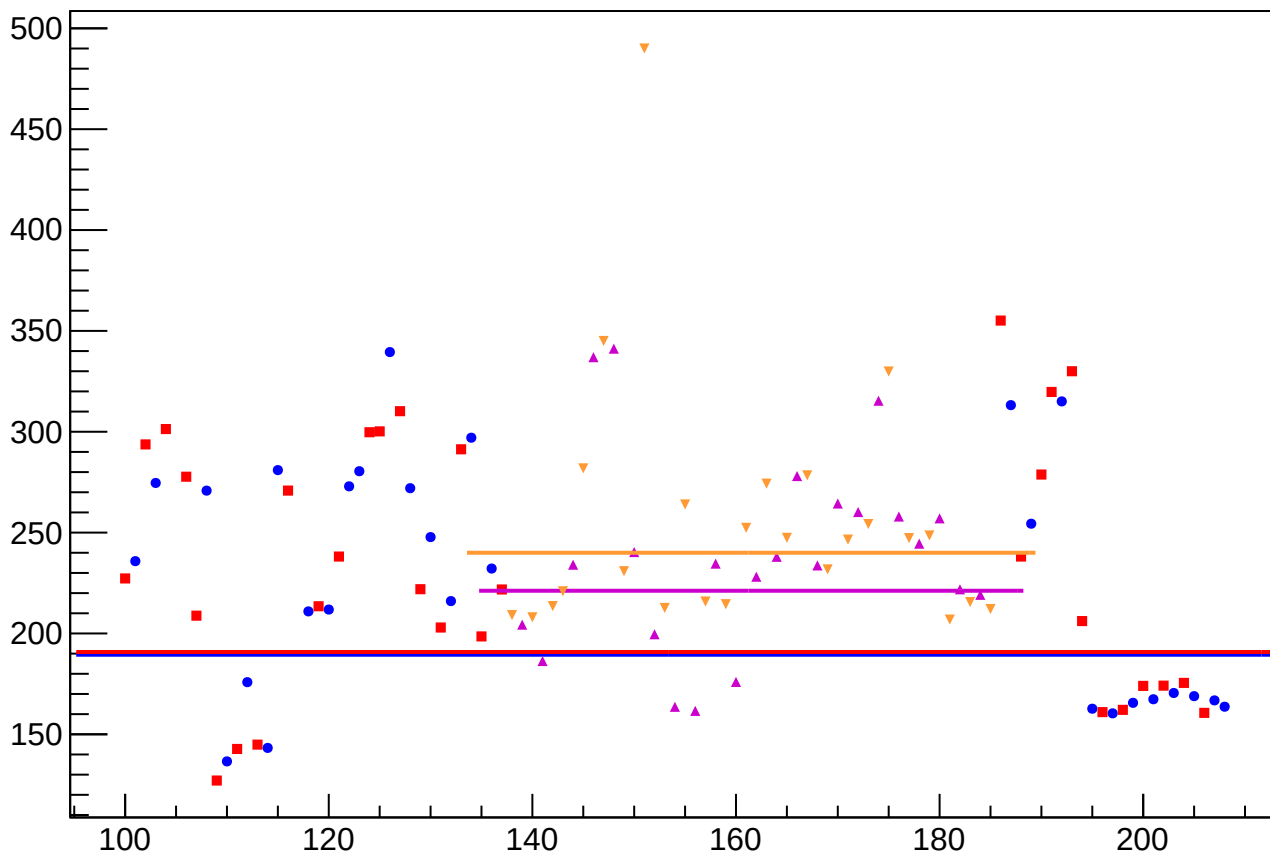
Right: 53.436 ± 36.529 $\chi^2/\text{NDF}: 24413.3/58$

In: 484.089 ± 37.672 $\chi^2/\text{NDF}: 12598.4/50$

Out: 205.131 ± 38.339 $\chi^2/\text{NDF}: 15886.7/55$

All: 347.057 ± 26.871 $\chi^2/\text{NDF}: 28511.9/106$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.457 $\pm$ 0.037 χ^2 /NDF: 1520067.5/27

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 190.818 $\pm$ 0.036 χ^2 /NDF: 2050485.7/30

Left In: 221.173 $\pm$ 0.039 χ^2 /NDF:1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2 /NDF: 2457612.6/47

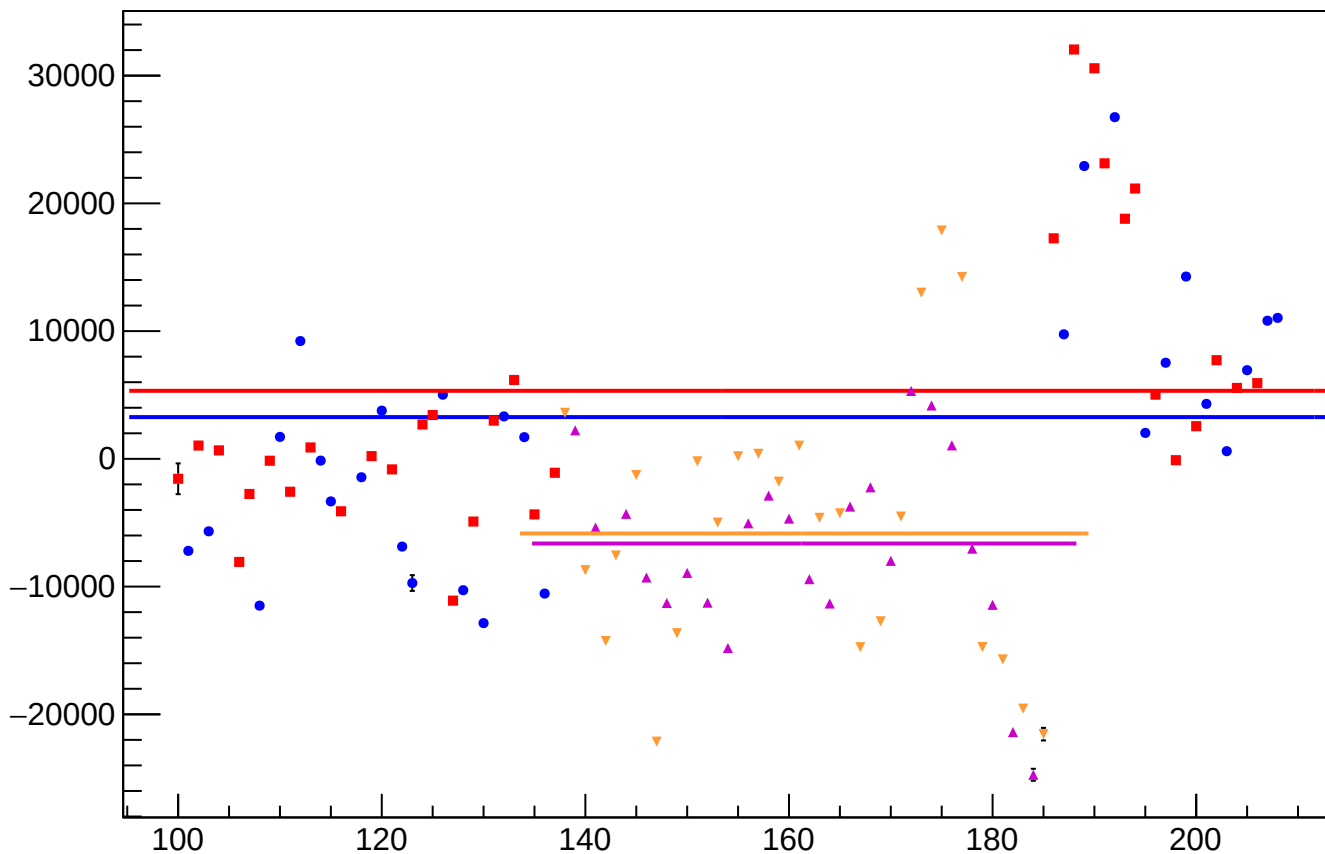
Right: 190.140 $\pm$ 0.026 χ^2 /NDF: 3571246.5/58

In: 204.374 $\pm$ 0.027 χ^2 /NDF:3215726.9/50

Out: 212.815 $\pm$ 0.027 χ^2 /NDF:3867174.2/55

All: 208.520 $\pm$ 0.019 χ^2 /NDF: 7132227.2/106

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3268.973 $\pm$ 35.946

χ^2/NDF : 81450.5/27

Left: -6220.862 $\pm$ 25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 $\pm$ 35.848

χ^2/NDF : 63397.3/24

Right: 4343.502 $\pm$ 24.854

χ^2/NDF : 184605.2/58

Right Out: 5327.795 $\pm$ 34.404

χ^2/NDF : 101442.6/30

In: -1515.376 $\pm$ 25.836

χ^2/NDF : 139835.8/50

Out: -27.407 $\pm$ 24.822

χ^2/NDF : 215375.7/55

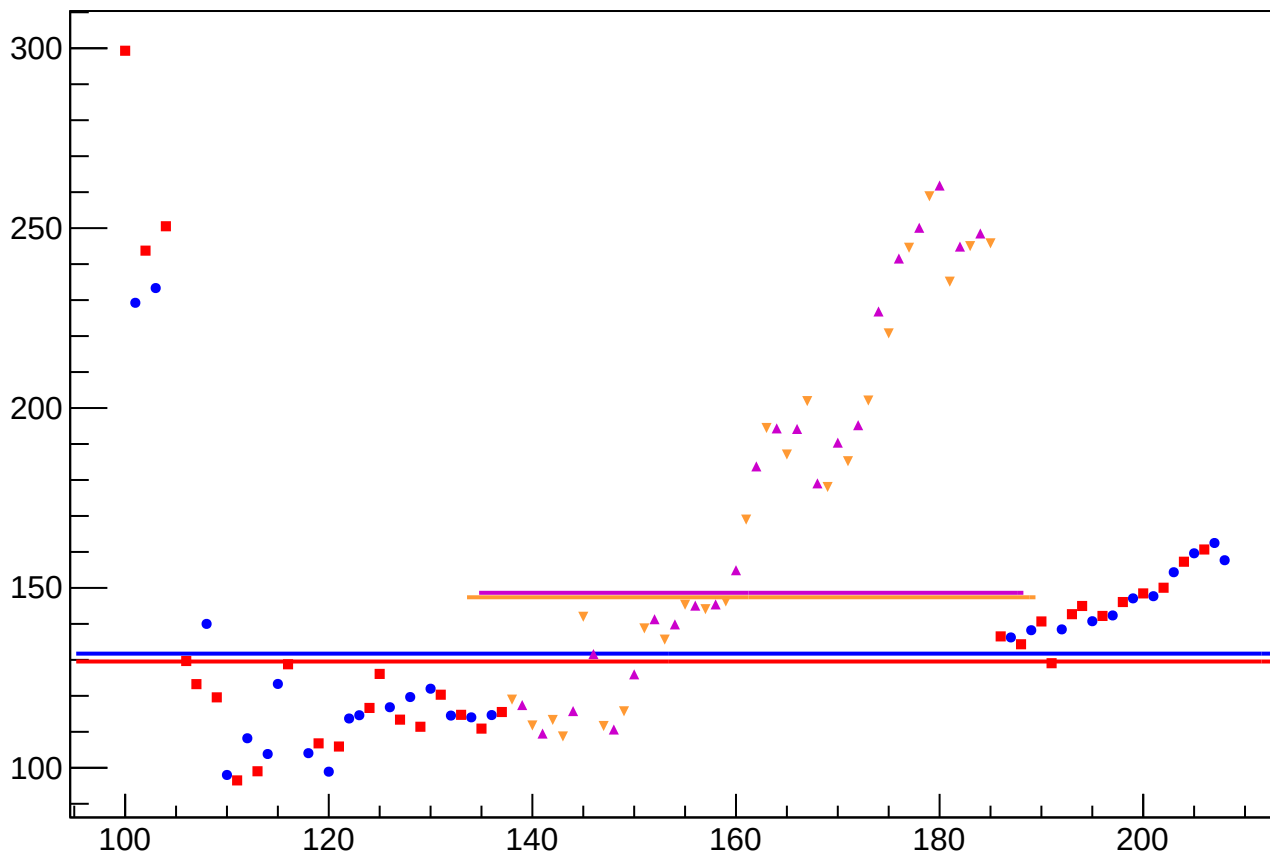
Left In: -6628.388 $\pm$ 37.160

χ^2/NDF : 21738.0/22

All: -741.607 $\pm$ 17.900

χ^2/NDF : 356936.4/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 131.734 $\pm$ 0.025 χ^2/NDF : 1023368.1/27

Left Out: 147.396 $\pm$ 0.025 χ^2/NDF : 2517097.1/24

Right Out: 129.545 $\pm$ 0.024 χ^2/NDF : 1070549.9/30

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

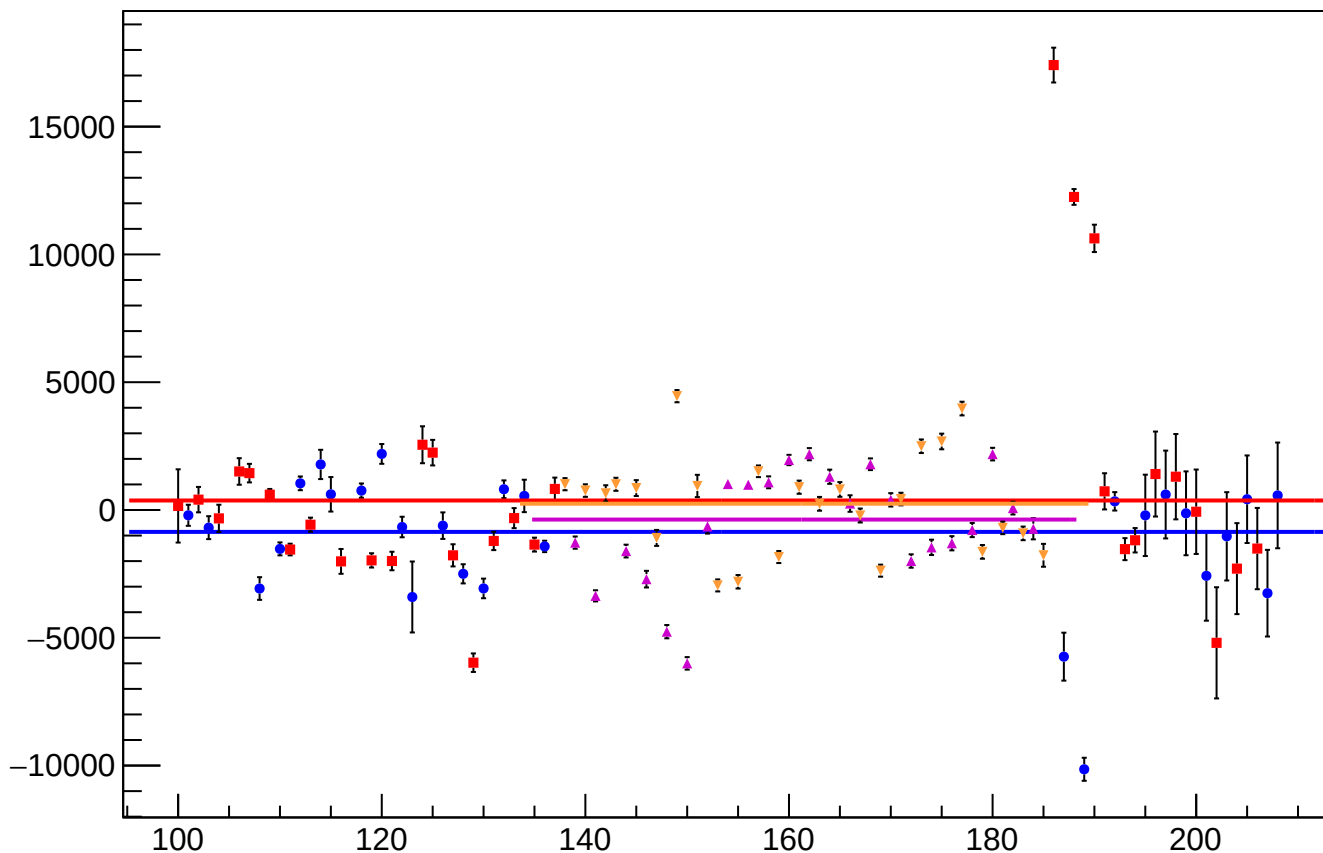
Right: 130.591 $\pm$ 0.018 χ^2/NDF : 2097788.0/58

In: 139.907 $\pm$ 0.018 χ^2/NDF : 3652811.8/50

Out: 138.104 $\pm$ 0.018 χ^2/NDF : 3845814.2/55

All: 138.969 $\pm$ 0.013 χ^2/NDF : 7503693.1/106

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -856.691 ± 84.048 $\chi^2/\text{NDF}: 764.5/27$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 371.899 ± 75.013 $\chi^2/\text{NDF}: 3171.1/30$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

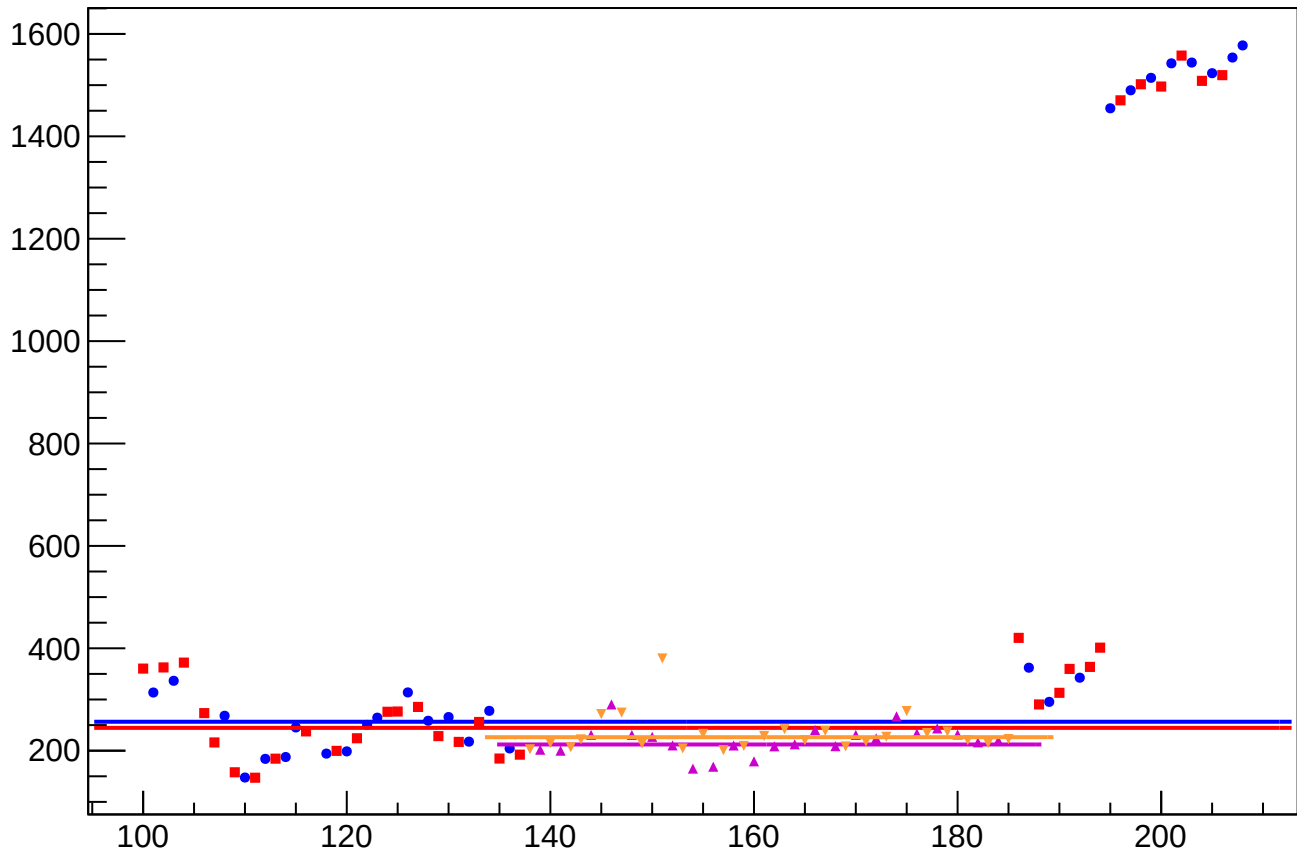
Right: -172.830 ± 55.965 $\chi^2/\text{NDF}: 4054.5/58$

In: -507.555 ± 44.155 $\chi^2/\text{NDF}: 2586.6/50$

Out: 288.520 ± 43.552 $\chi^2/\text{NDF}: 4527.8/55$

All: -104.052 ± 31.007 $\chi^2/\text{NDF}: 7279.1/106$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.535 $\pm$ 0.059 χ^2 /NDF: 9712350.0/27

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 244.584 $\pm$ 0.053 χ^2 /NDF: 8269172.6/30

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

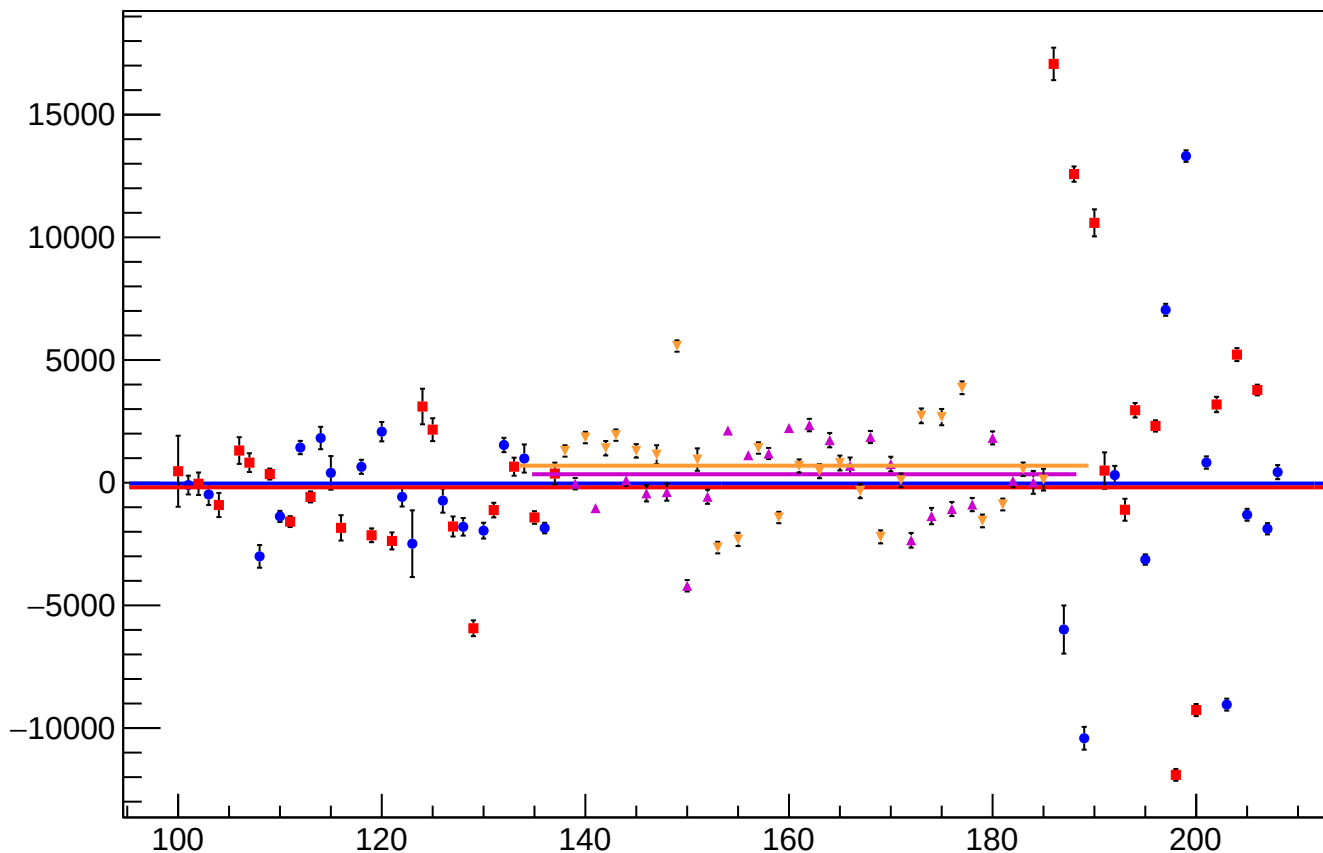
Right: 249.883 $\pm$ 0.040 χ^2 /NDF: 18004031.3/58

In: 224.396 $\pm$ 0.031 χ^2 /NDF: 10707967.3/50

Out: 232.514 $\pm$ 0.031 χ^2 /NDF: 8869062.6/55

All: 228.511 $\pm$ 0.022 χ^2 /NDF: 19611291.1/10

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -34.385 ± 58.682 χ^2/NDF : 6606.0/27

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: -189.776 ± 57.946 χ^2/NDF : 8128.4/30

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

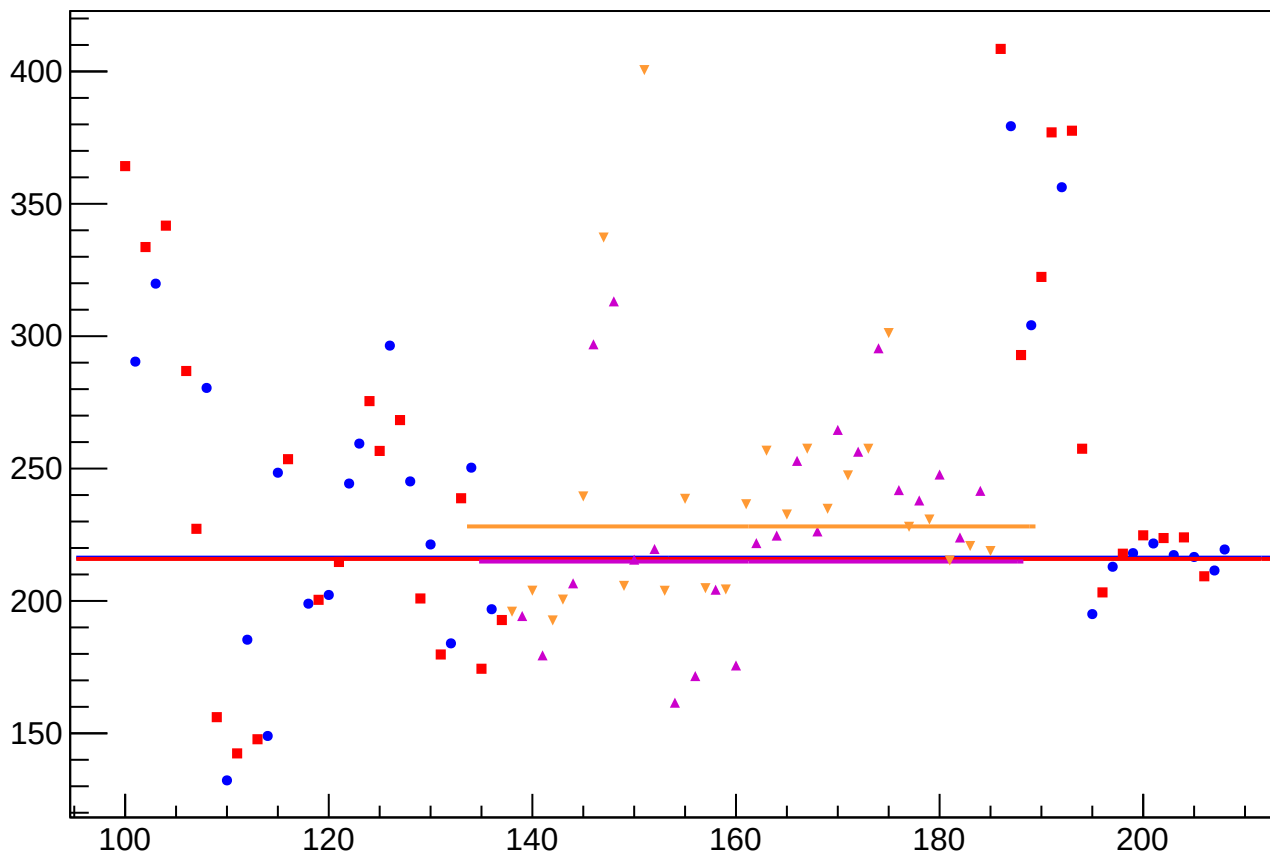
Right: -113.061 ± 41.231 χ^2/NDF : 14737.9/58

In: 174.489 ± 39.314 χ^2/NDF : 7614.0/50

Out: 281.393 ± 39.601 χ^2/NDF : 9674.5/55

All: 227.551 ± 27.900 χ^2/NDF : 17292.2/106

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.351 ± 0.041 $\chi^2/\text{NDF}: 1144971.8/27$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 215.868 ± 0.041 $\chi^2/\text{NDF}: 1821519.6/30$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

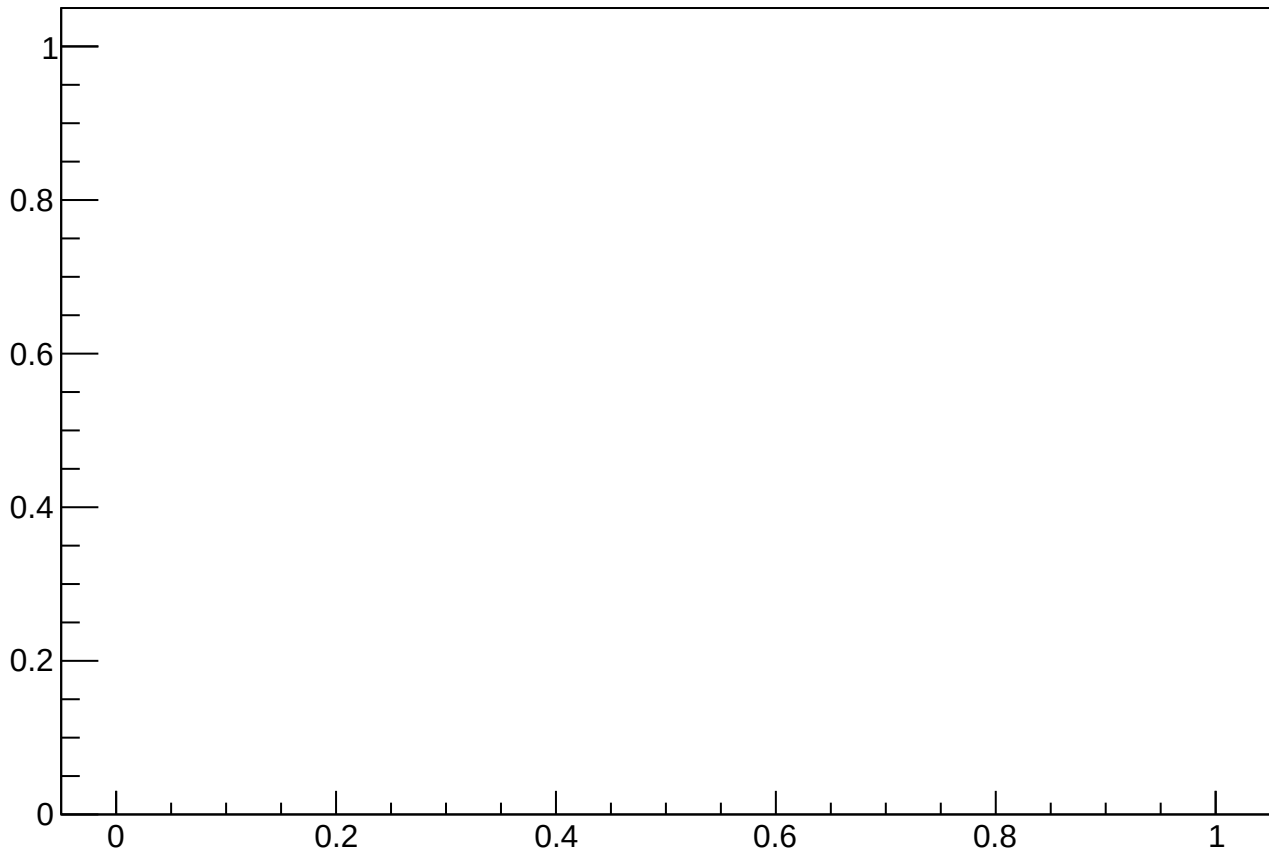
Right: 216.107 ± 0.029 $\chi^2/\text{NDF}: 2966560.0/58$

In: 215.539 ± 0.028 $\chi^2/\text{NDF}: 2183176.2/50$

Out: 222.410 ± 0.028 $\chi^2/\text{NDF}: 2697751.9/55$

All: 218.950 ± 0.020 $\chi^2/\text{NDF}: 4911251.3/106$

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

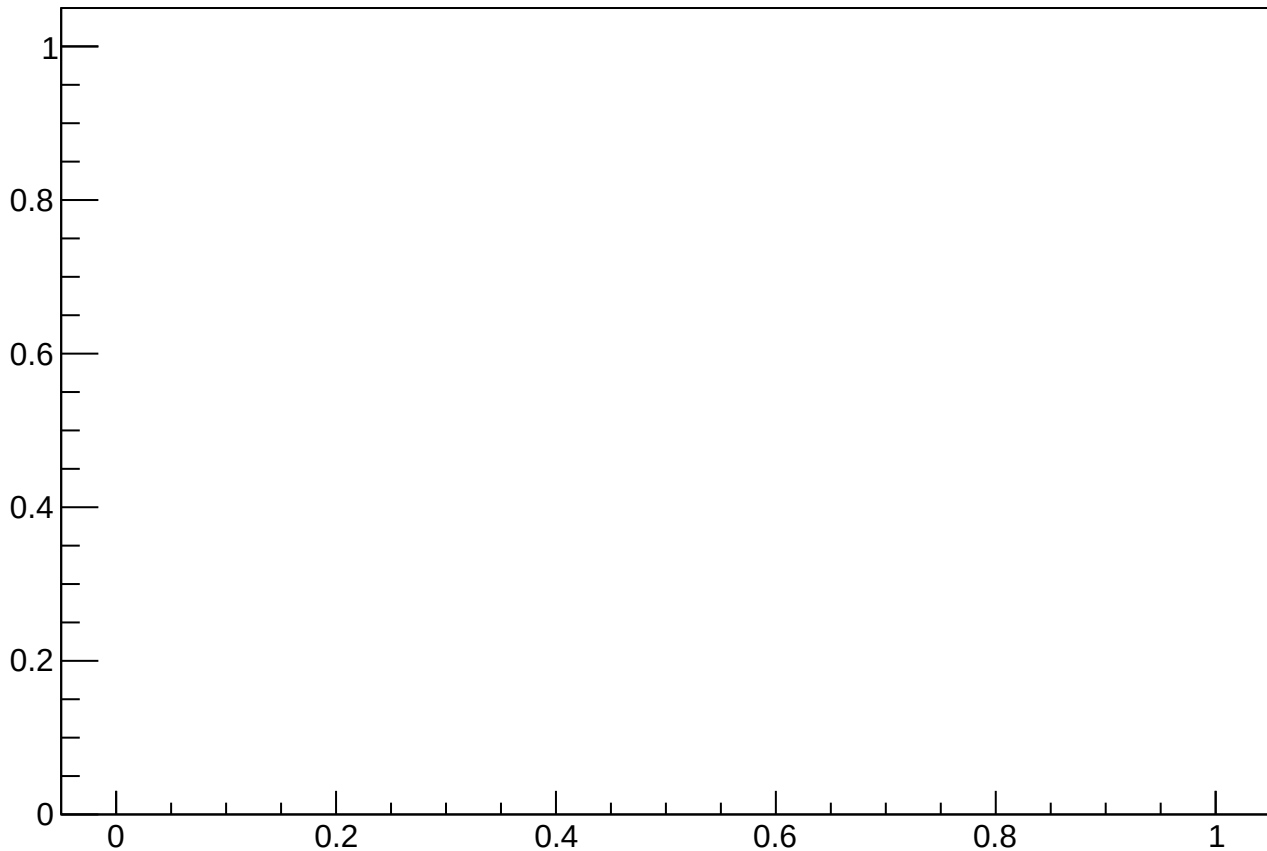
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

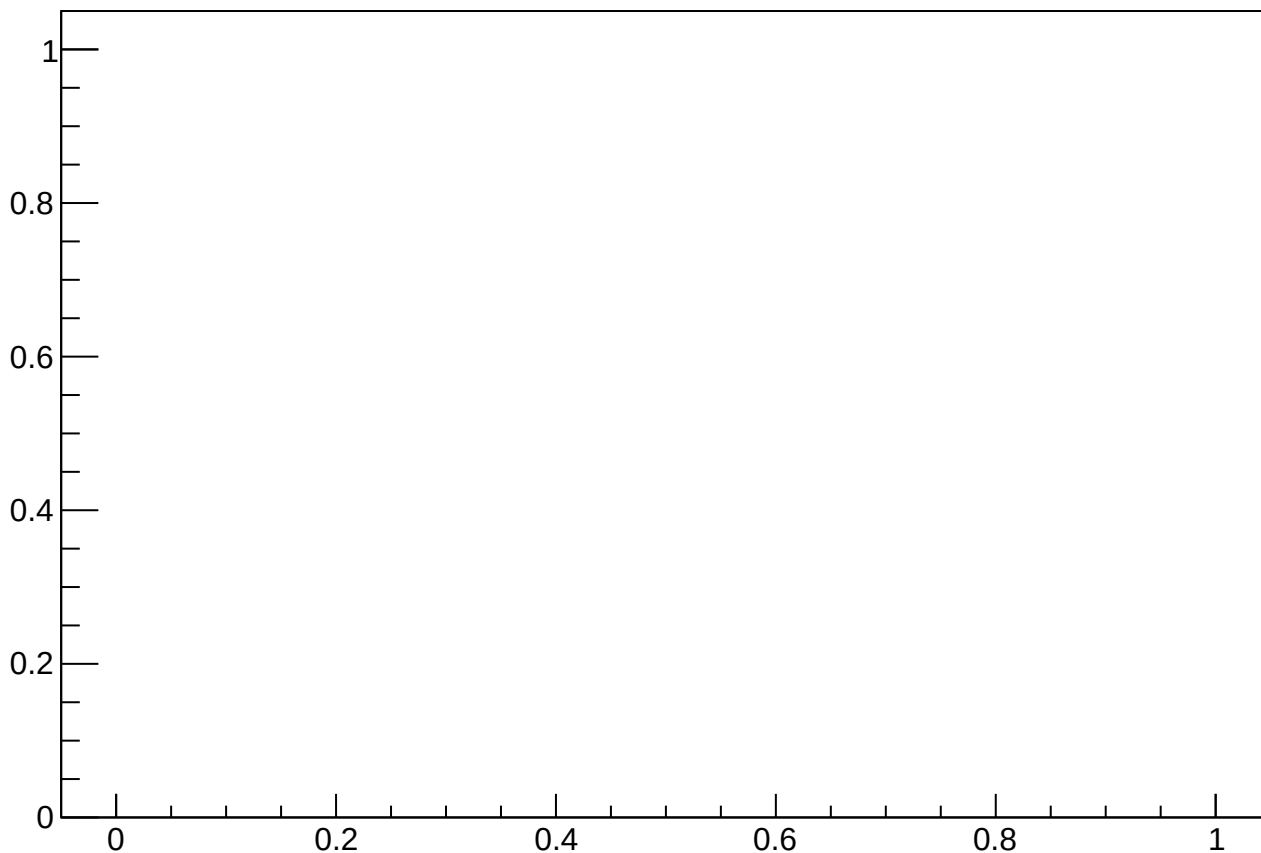
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

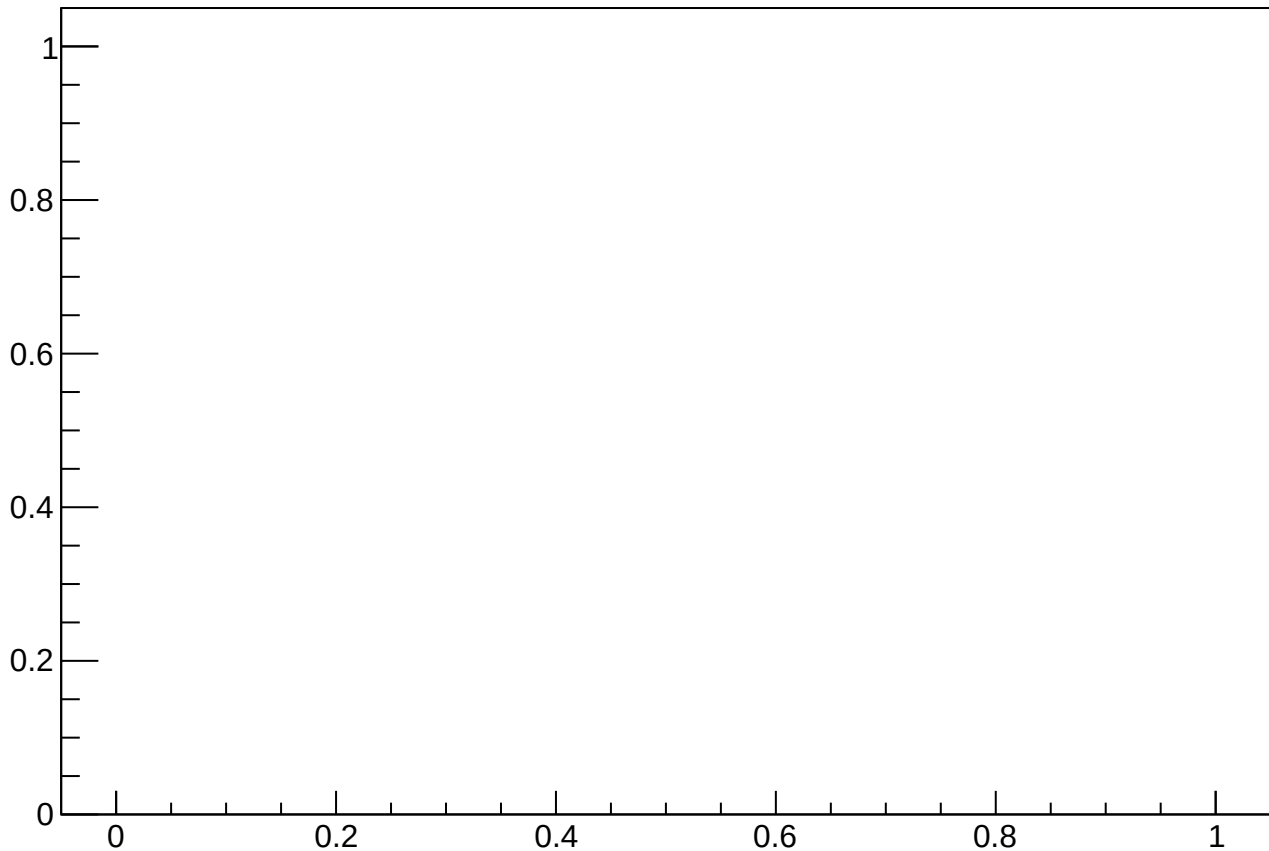
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

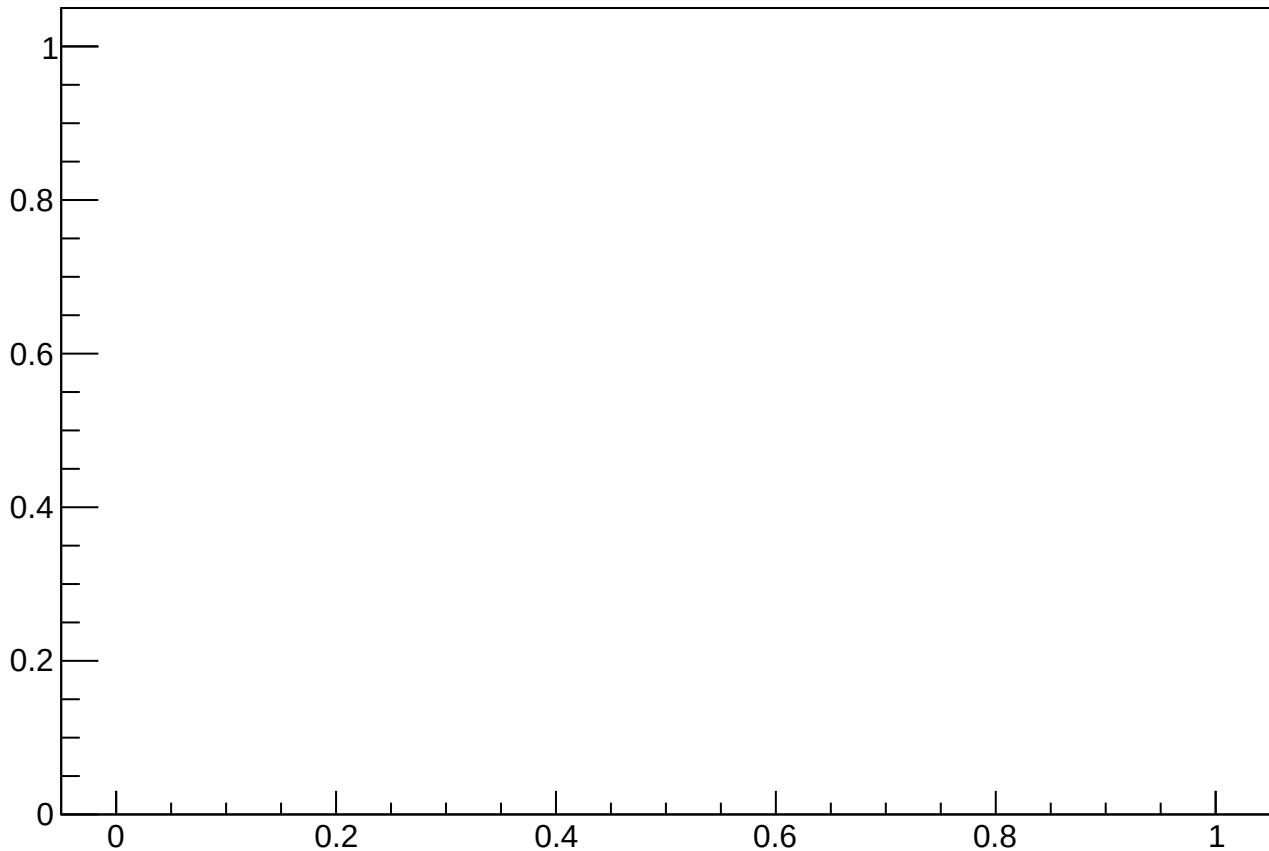
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

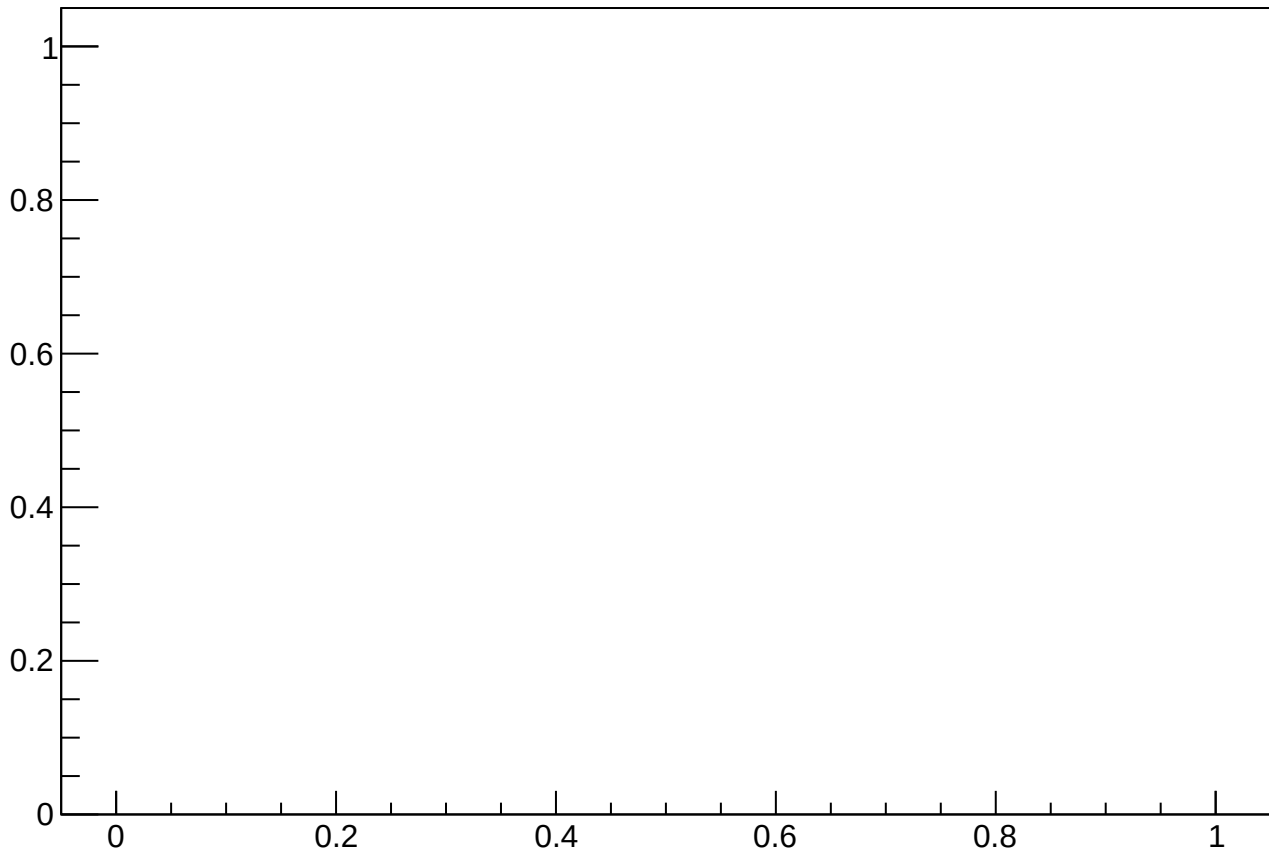
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

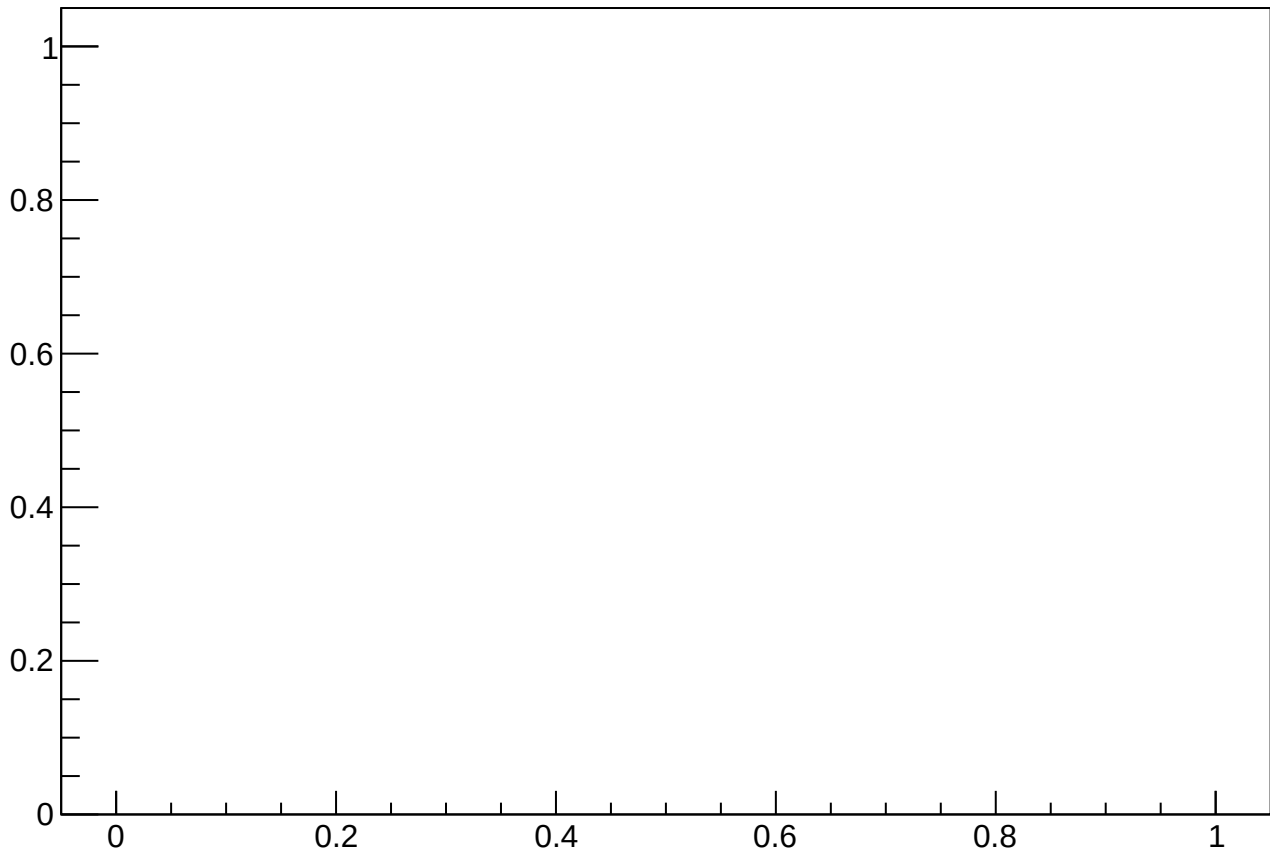
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

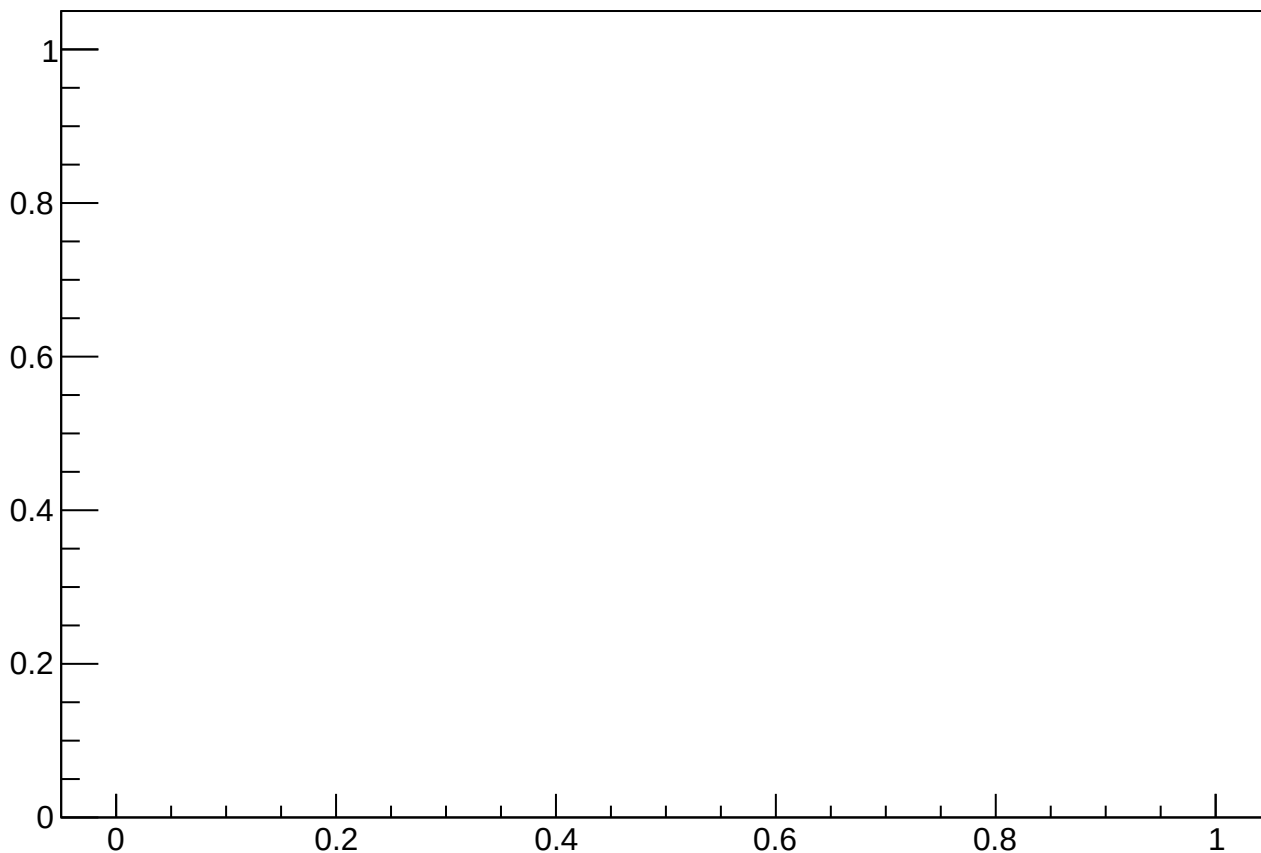
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

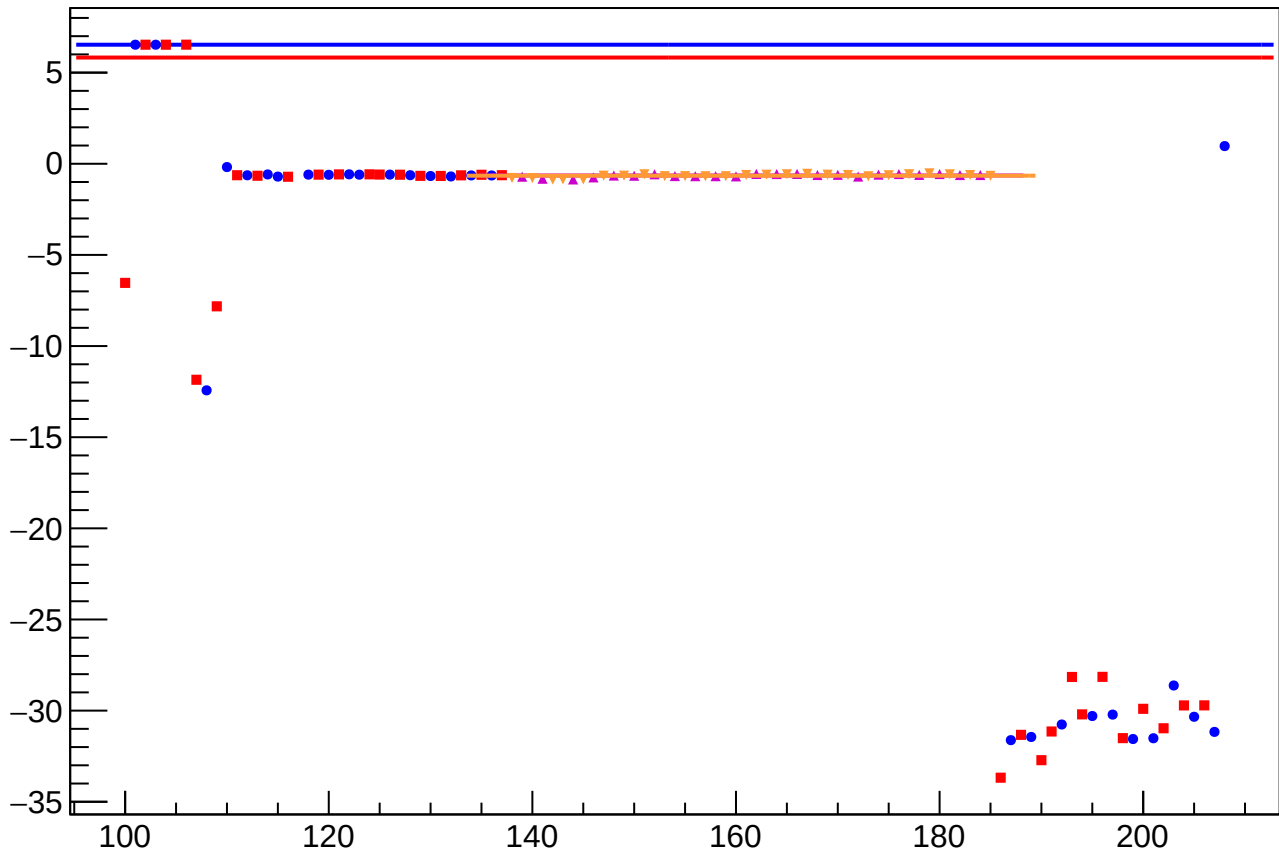
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 129945926099.8/27

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962464842936.0/30

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

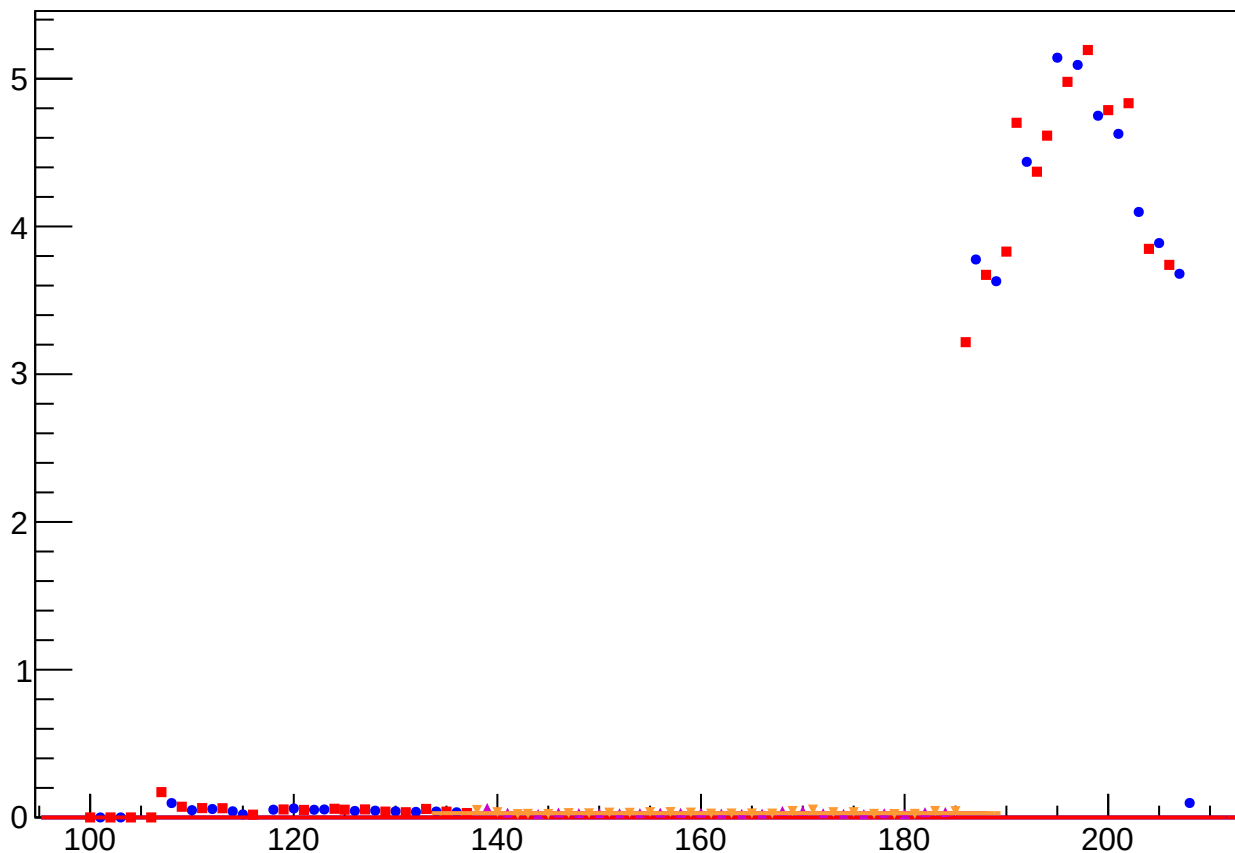
Right: 6.155+/-0.000 χ^2/NDF : 776096134737544.0/47

In: 6.530+/-0.000 χ^2/NDF : 964063483214.0/50

Out: 5.826+/-0.000 χ^2/NDF : 756673481721355.5/50

All: 6.153+/-0.000 χ^2/NDF : 77762956573935.0/97

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23912627.1/27

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24905472.9/30

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

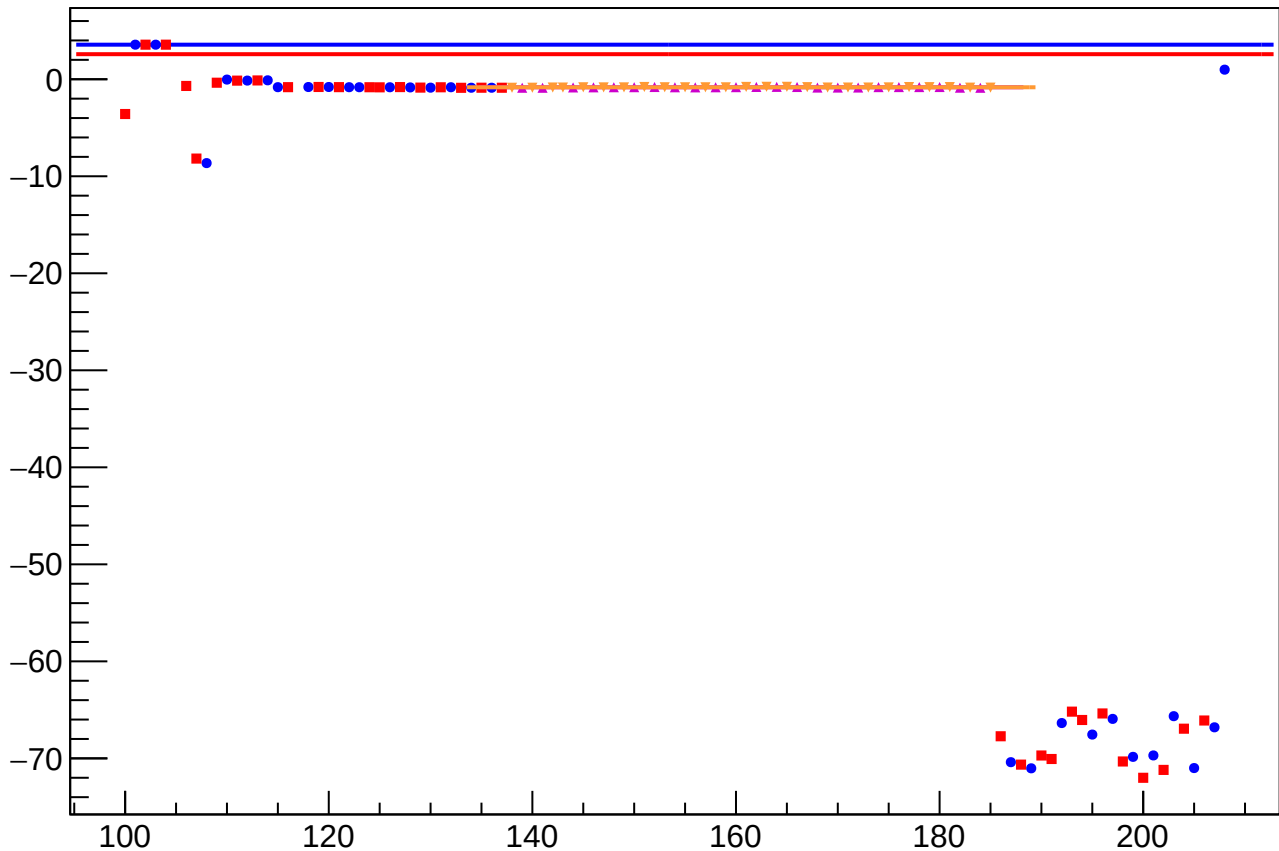
Right: 0.000+/-0.000 χ^2/NDF : 48818370.5/58

In: 0.000+/-0.000 χ^2/NDF :52090269.5/50

Out: 0.000+/-0.000 χ^2/NDF :54873497.2/55

All: 0.000+/-0.000 χ^2/NDF : 106964222.2/106

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 525140431921.2/27

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253530529791773.5/30

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

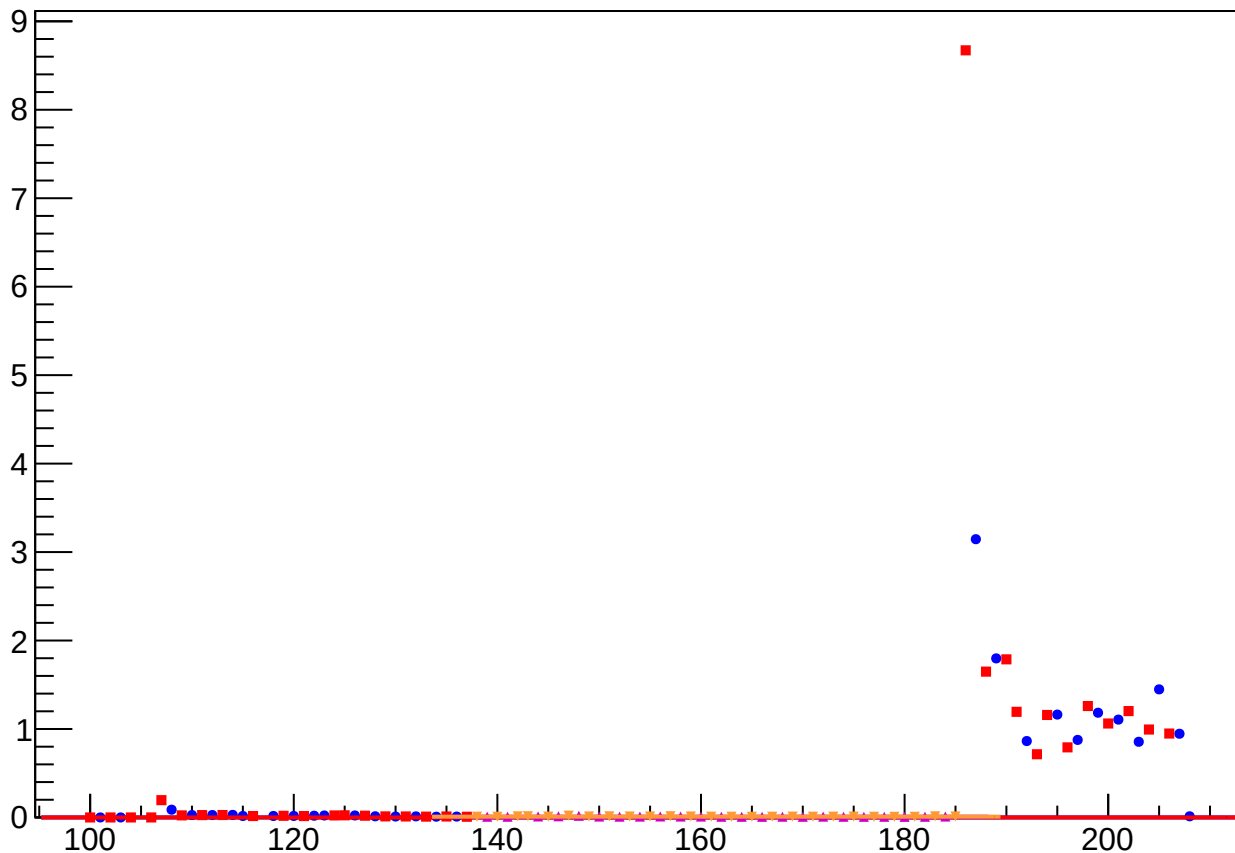
Right: 3.040+/-0.000 χ^2/NDF : 1382319986195142.1

In: 3.560+/-0.000 χ^2/NDF : 4205651963644.4/50

Out: 2.581+/-0.000 χ^2/NDF : 1255761430097836.2

All: 3.038+/-0.000 χ^2/NDF : 13880445139228

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22119527.6/27

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23048229.3/30

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

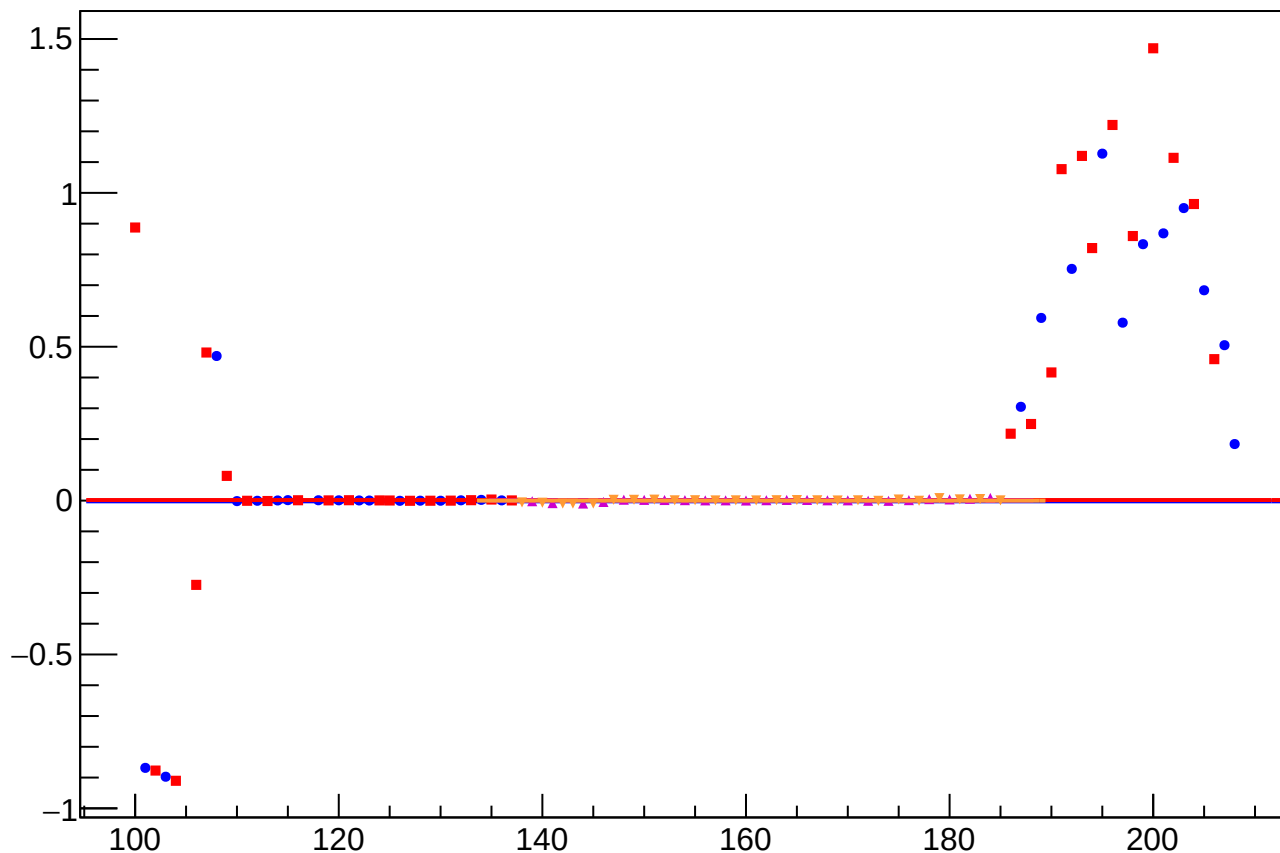
Right: 0.000+/-0.000 χ^2/NDF : 45168115.1/58

In: 0.000+/-0.000 χ^2/NDF :51915673.4/50

Out: 0.000+/-0.000 χ^2/NDF :54566331.6/55

All: 0.000+/-0.000 χ^2/NDF : 106482921.4/106

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796521572.0/27

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043668263.6/30

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

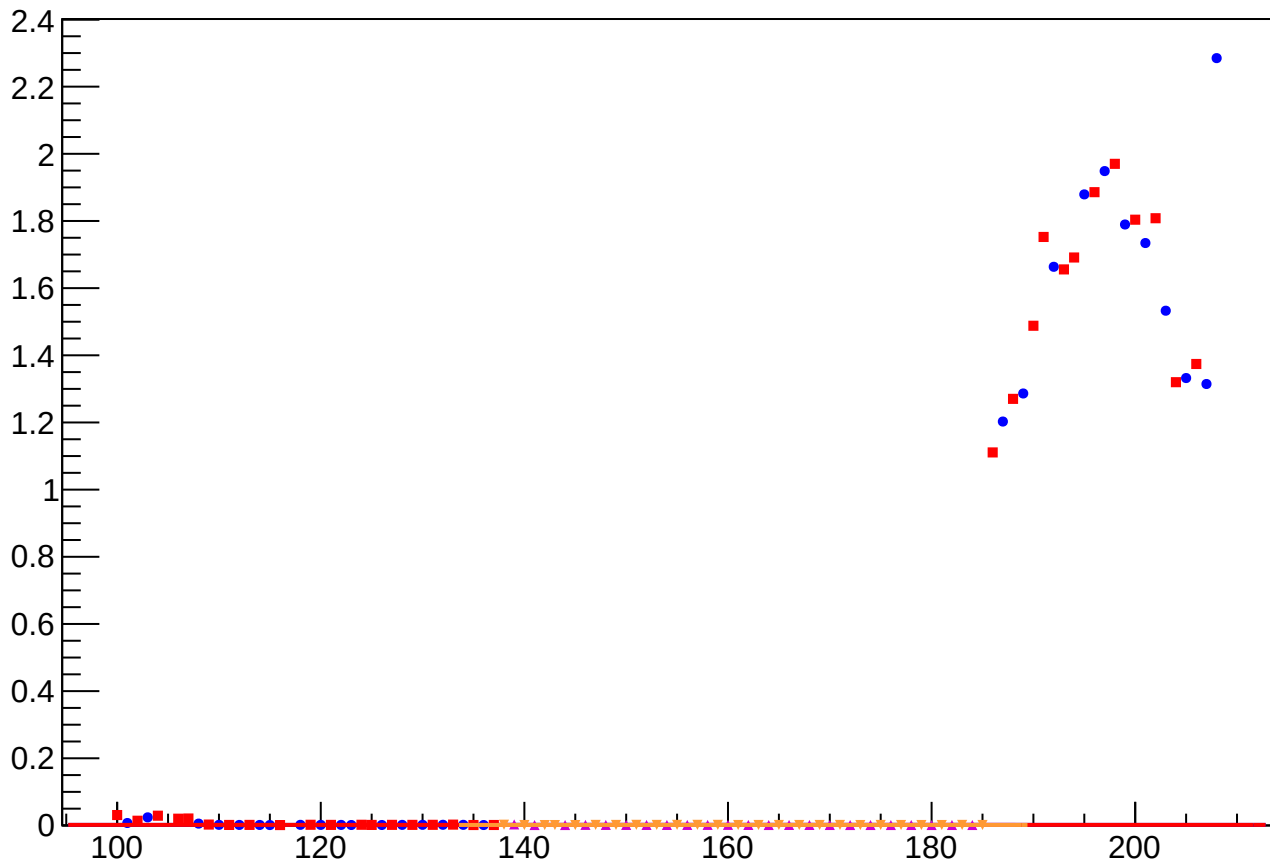
Right: -0.000+/-0.000 χ^2/NDF : 12854337350.6/58

In: -0.000+/-0.000 χ^2/NDF : 9909428245.9/50

Out: 0.000+/-0.000 χ^2/NDF : 3199906318.6/55

All: 0.000+/-0.000 χ^2/NDF : 13109706057.1/113

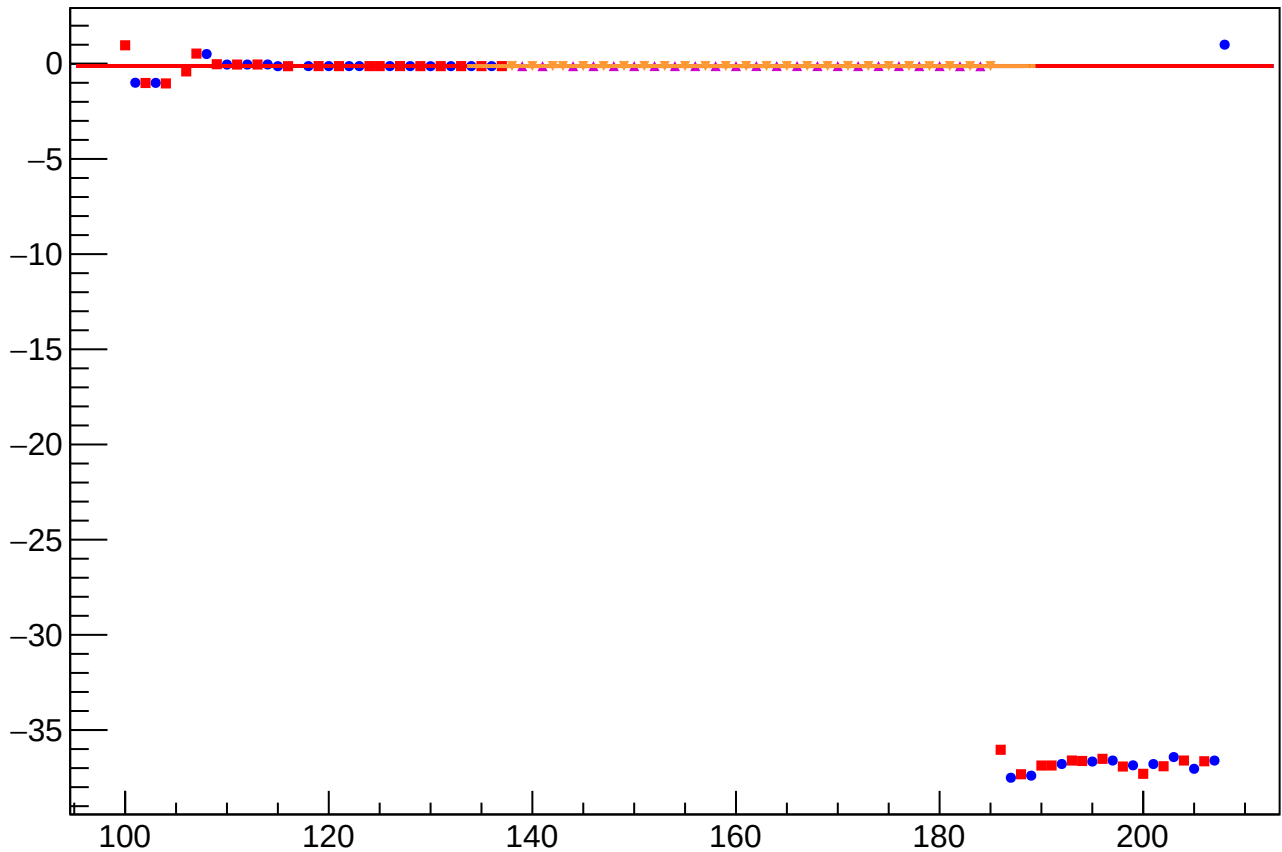
yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16953378.3/27
 Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24
 Right Out: 0.002+/-0.000 χ^2/NDF : 18559890.6/30
 Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

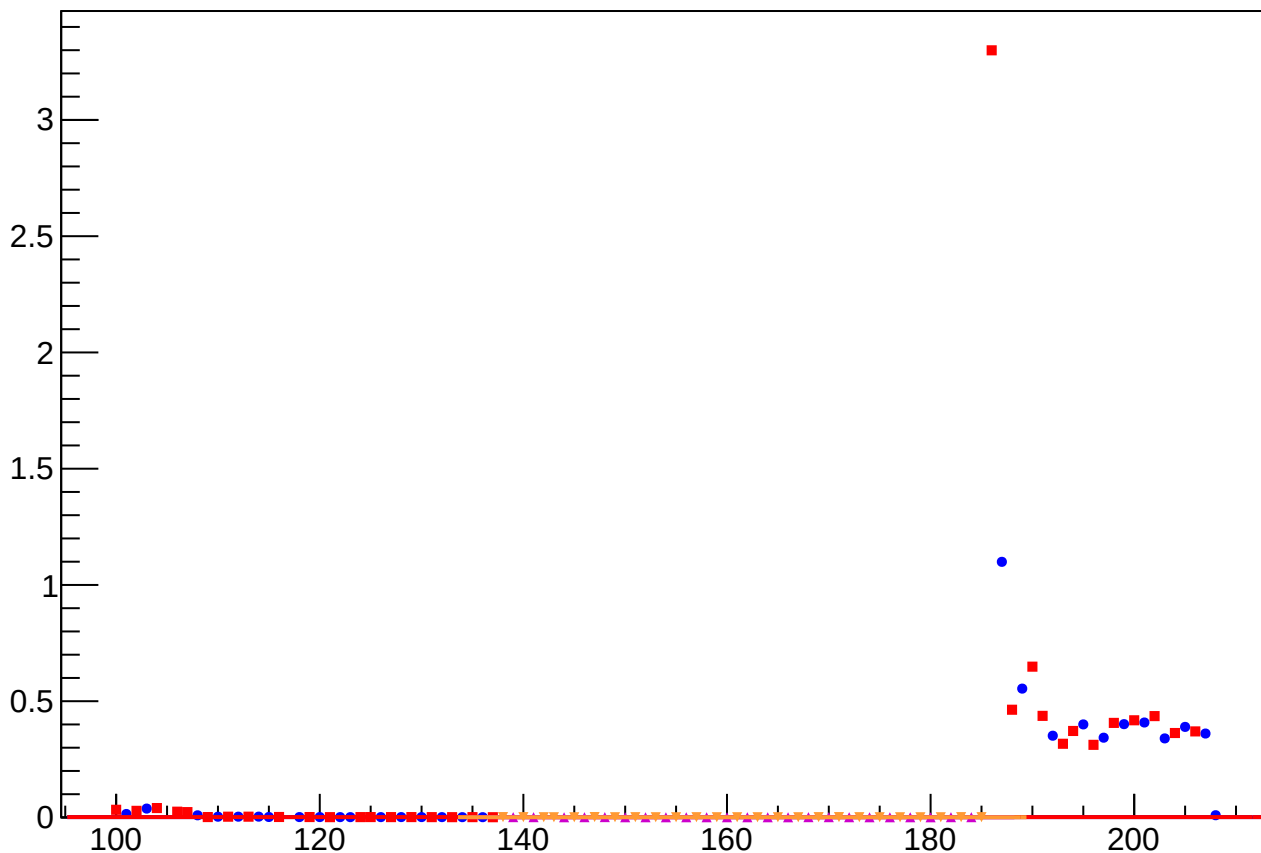
Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47
 Right: 0.002+/-0.000 χ^2/NDF : 35521205.5/58
 In: 0.002+/-0.000 χ^2/NDF : 17665969.6/50
 Out: 0.002+/-0.000 χ^2/NDF : 19235629.5/55
 All: 0.002+/-0.000 χ^2/NDF : 36902234.5/106

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.000	χ^2/NDF : 72996118780.6/27	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.117+/-0.000	χ^2/NDF : 141416720882.6/58
Right Out: -0.116+/-0.000	χ^2/NDF : 68419030463.0/30	In: -0.121+/-0.000	χ^2/NDF : 73067475665.4/50
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.121+/-0.000	χ^2/NDF : 68515734512.2/55
		All: -0.121+/-0.000	χ^2/NDF : 141583230475.3

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16935131.0/27

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18510883.3/30

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

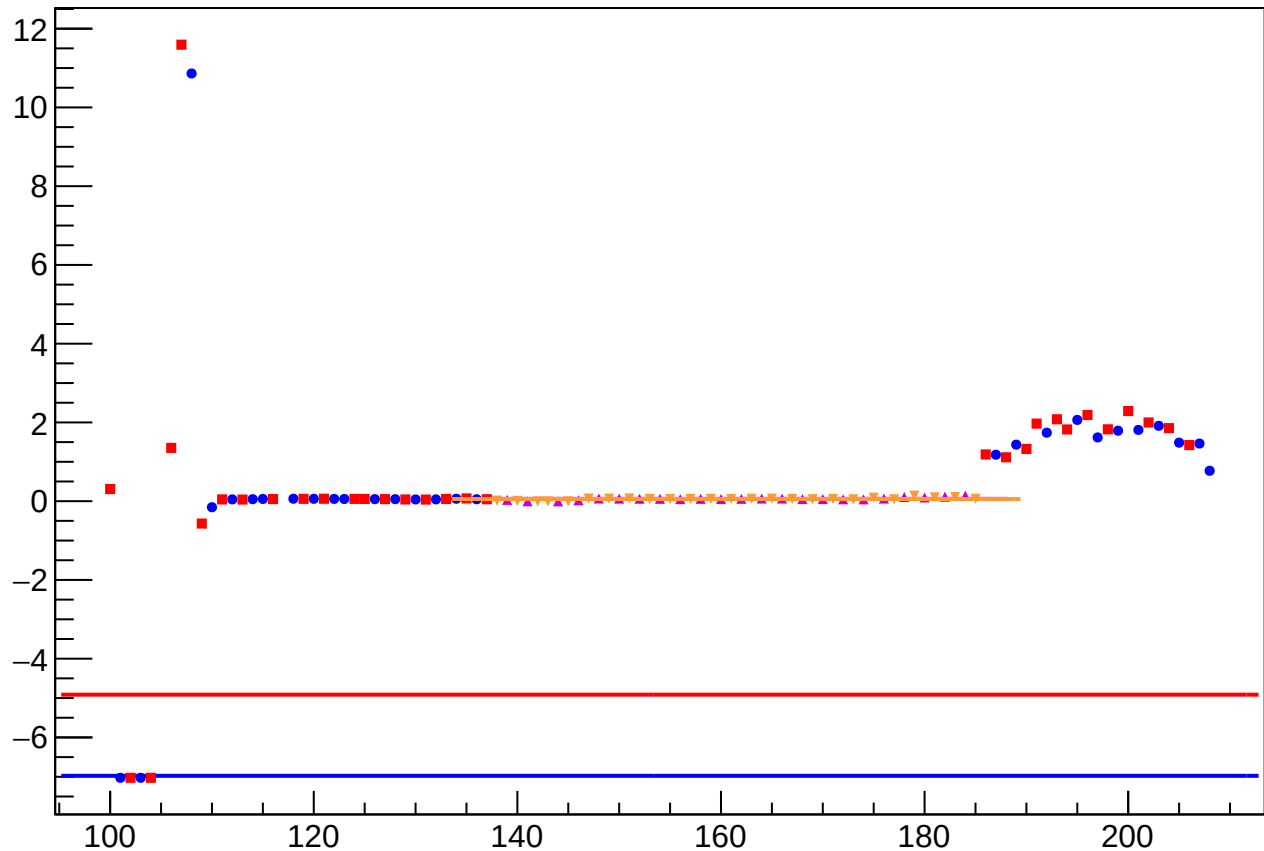
Right: 0.002+/-0.000 χ^2/NDF : 35447735.7/58

In: 0.001+/-0.000 χ^2/NDF :19167963.8/50

Out: 0.001+/-0.000 χ^2/NDF :21054038.8/55

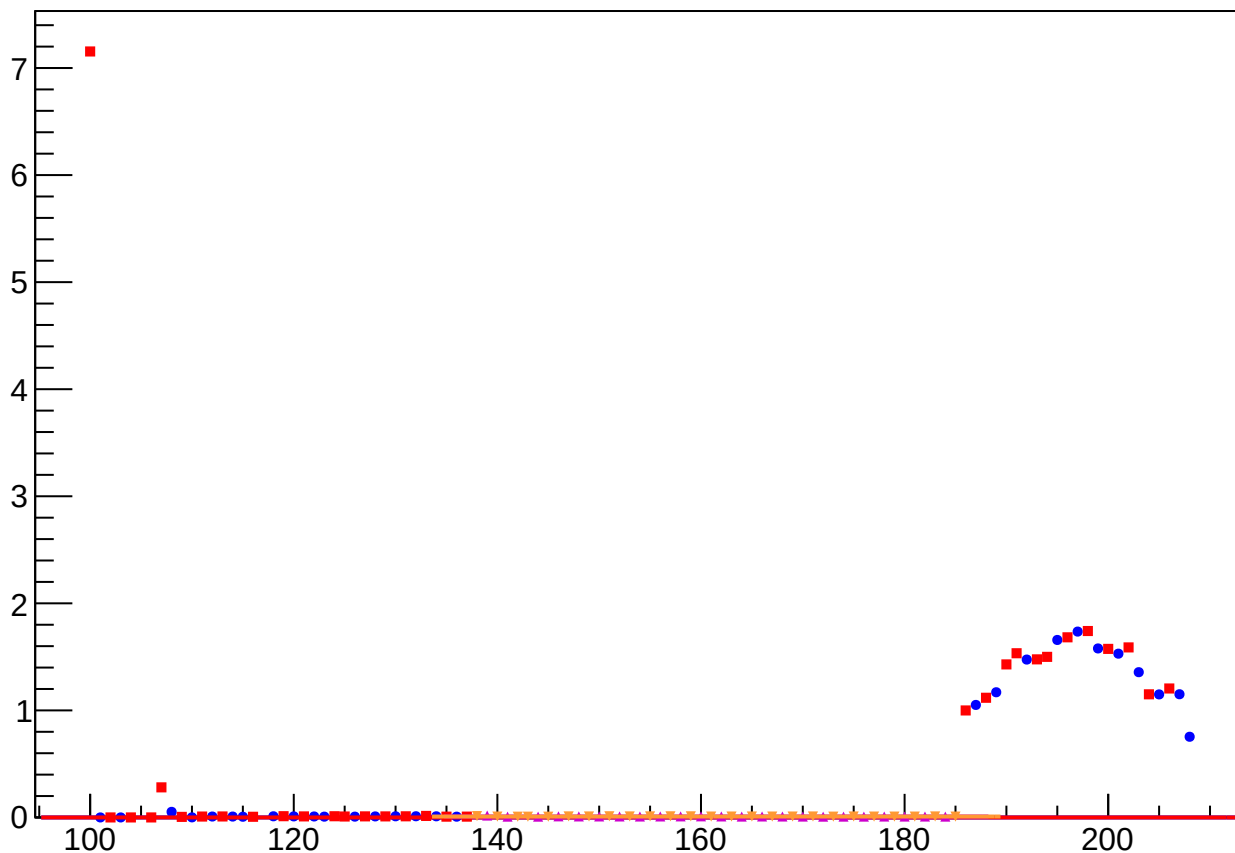
All: 0.001+/-0.000 χ^2/NDF : 40225394.8/106

yield_cav4dX_mean vs Slug, Sign Corrected

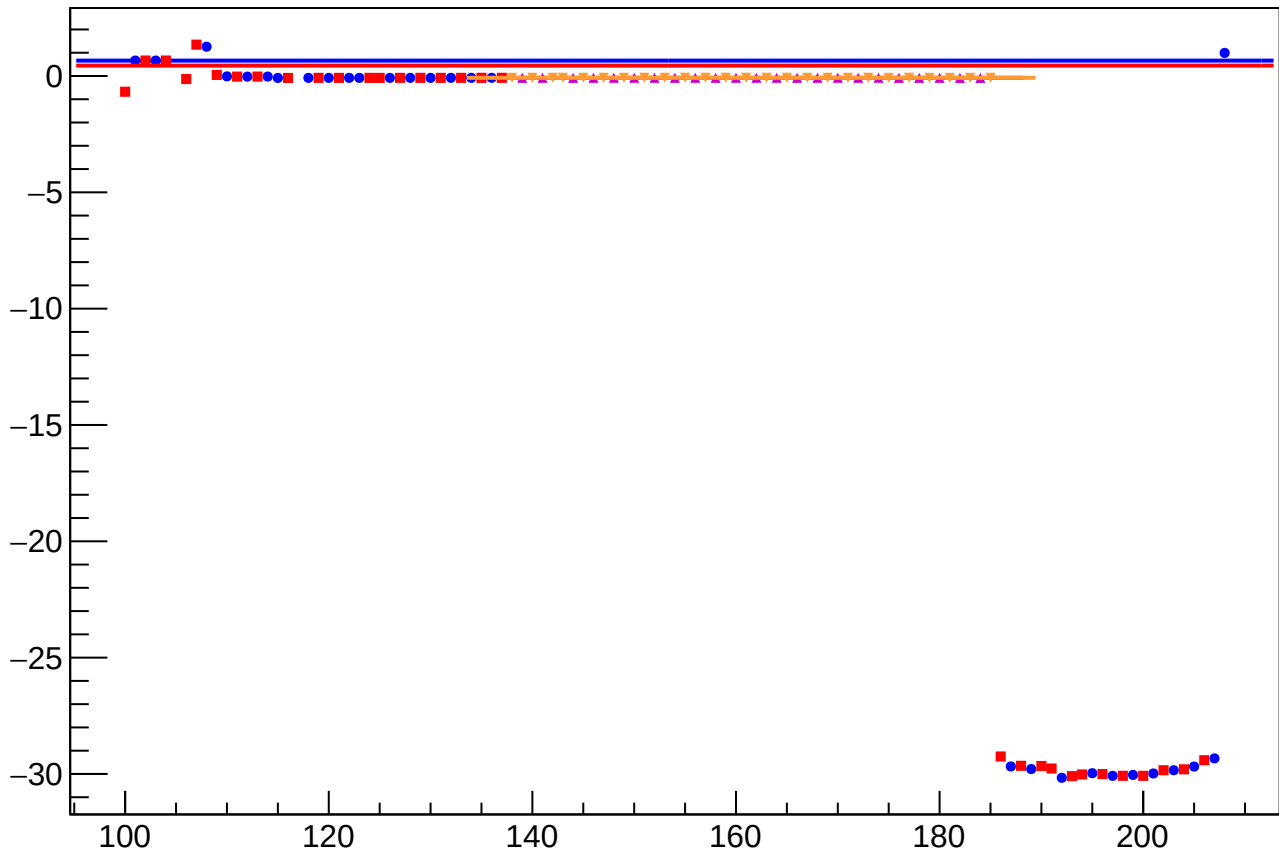


Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762782450478.5/27$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303685885253.2$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348716267241.5/30$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605307486417.5/50$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175402522760.0$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435816479181$

yield_cav4dX_rms vs Slug, Sign Corrected

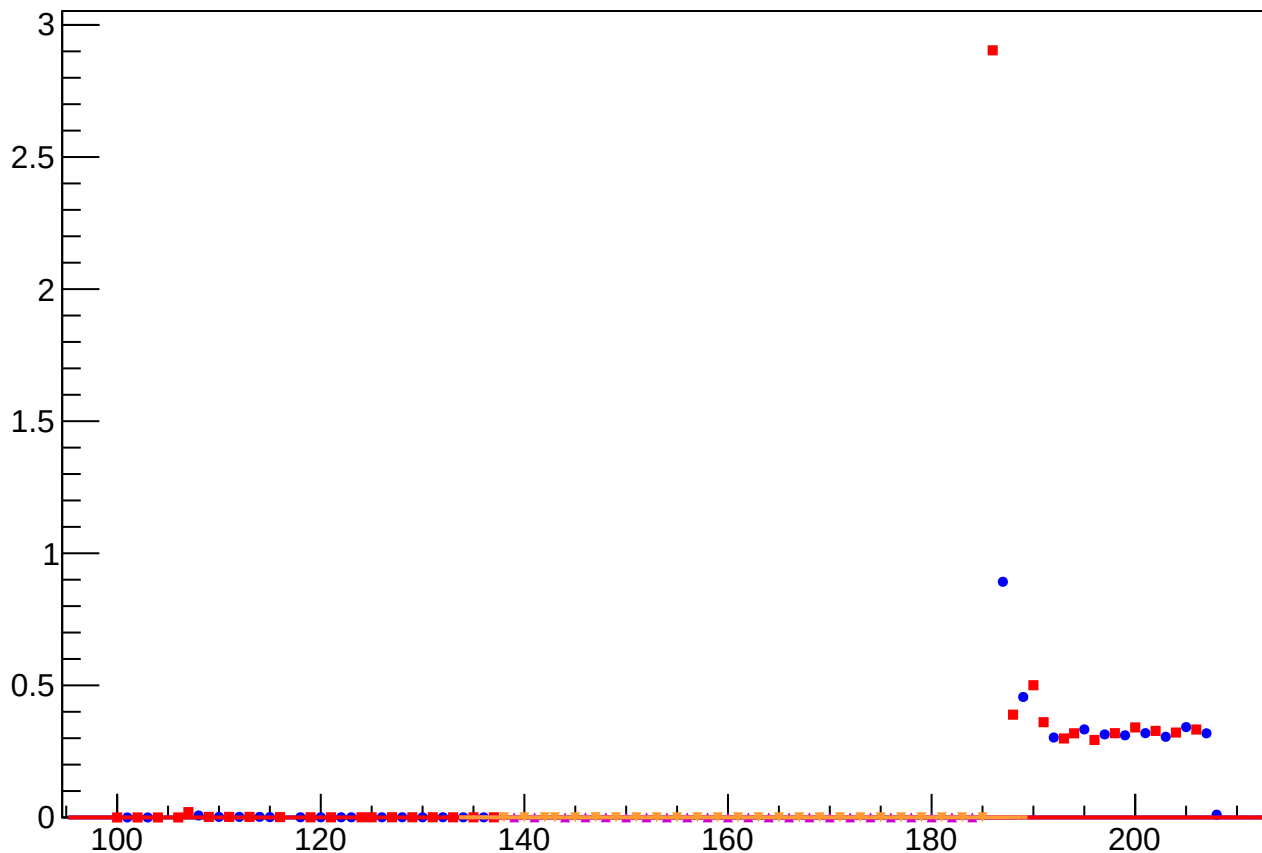


yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5646341869013.6/27	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 : 474054787619383.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405478812104000.3/30	In: 0.647+/-0.000	χ^2/NDF : 33906326155249.8/50
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420673377603362.1/50
		All: 0.537+/-0.000	χ^2/NDF : 51610480428757.1

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24715936.0/27

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24866208.1/30

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

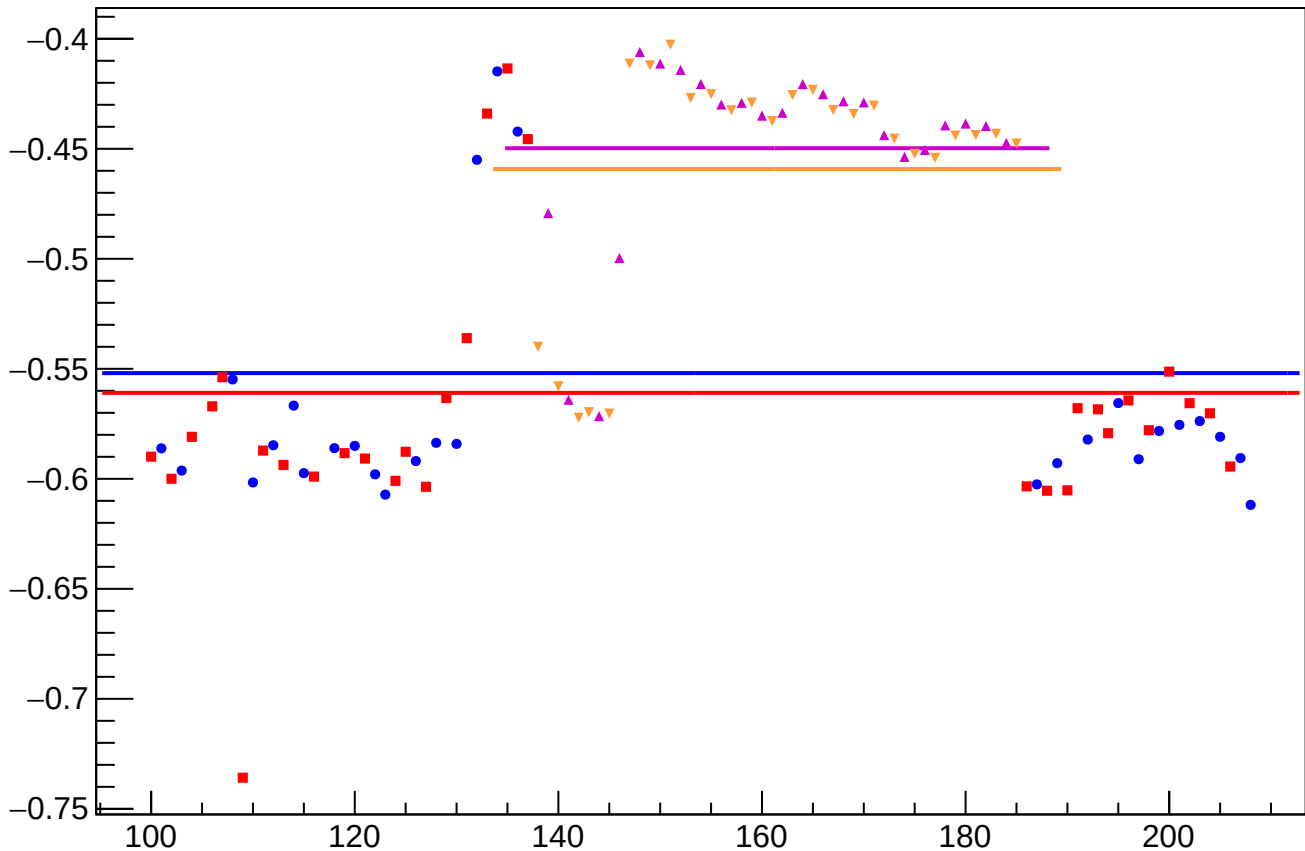
Right: 0.000+/-0.000 χ^2/NDF : 49582157.3/58

In: 0.000+/-0.000 χ^2/NDF :55691733.8/50

Out: 0.000+/-0.000 χ^2/NDF :57579875.3/55

All: 0.000+/-0.000 χ^2/NDF : 113272053.0/106

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.552+/-0.000 χ^2/NDF : 49442449.1/27

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.561+/-0.000 χ^2/NDF : 65637300.0/30

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

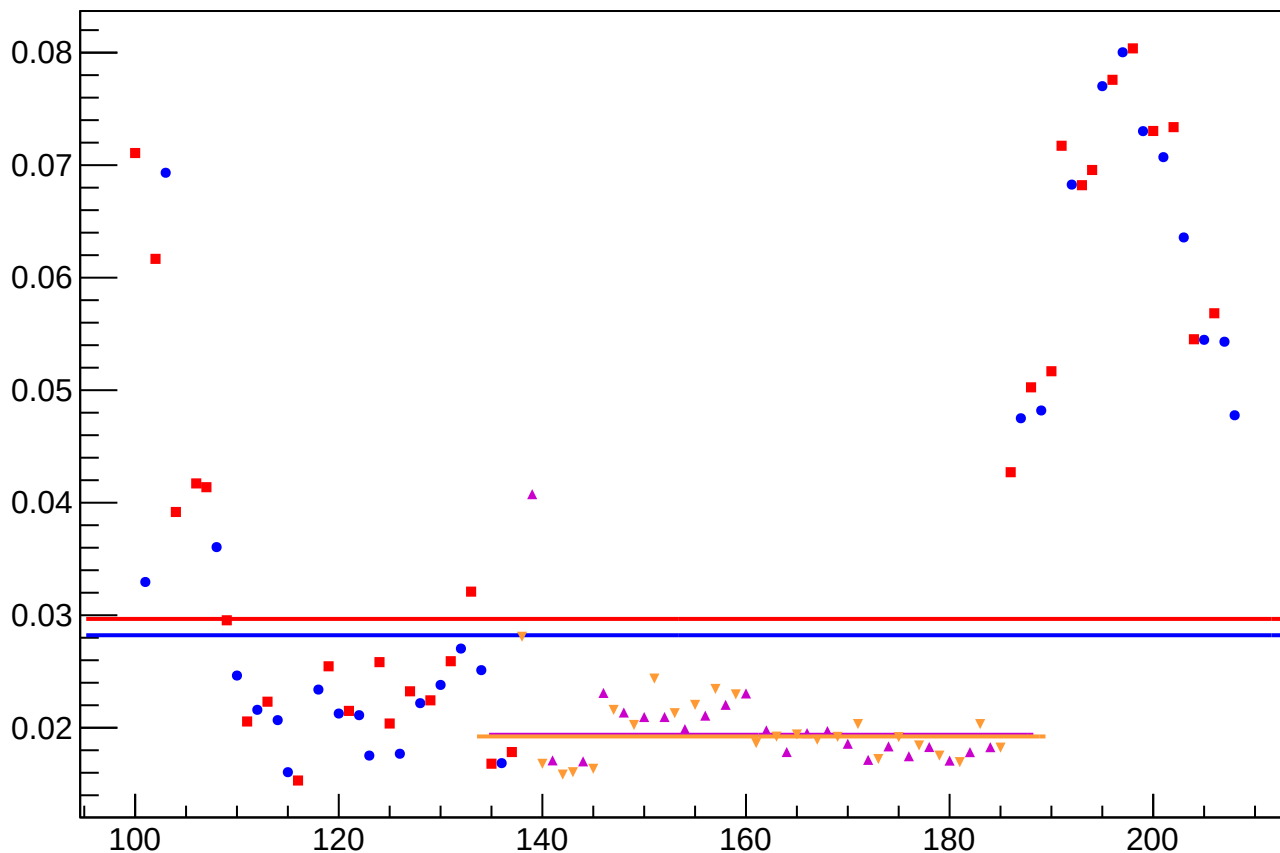
Right: -0.556+/-0.000 χ^2/NDF : 115567758.3/58

In: -0.475+/-0.000 χ^2/NDF : 222575338.3/50

Out: -0.482+/-0.000 χ^2/NDF : 274225730.5/55

All: -0.479+/-0.000 χ^2/NDF : 498127792.8/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6415856.3/27

Left Out: 0.019+/-0.000 χ^2/NDF :501253.7/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6452183.2/30

Left In: 0.019+/-0.000 χ^2/NDF :656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

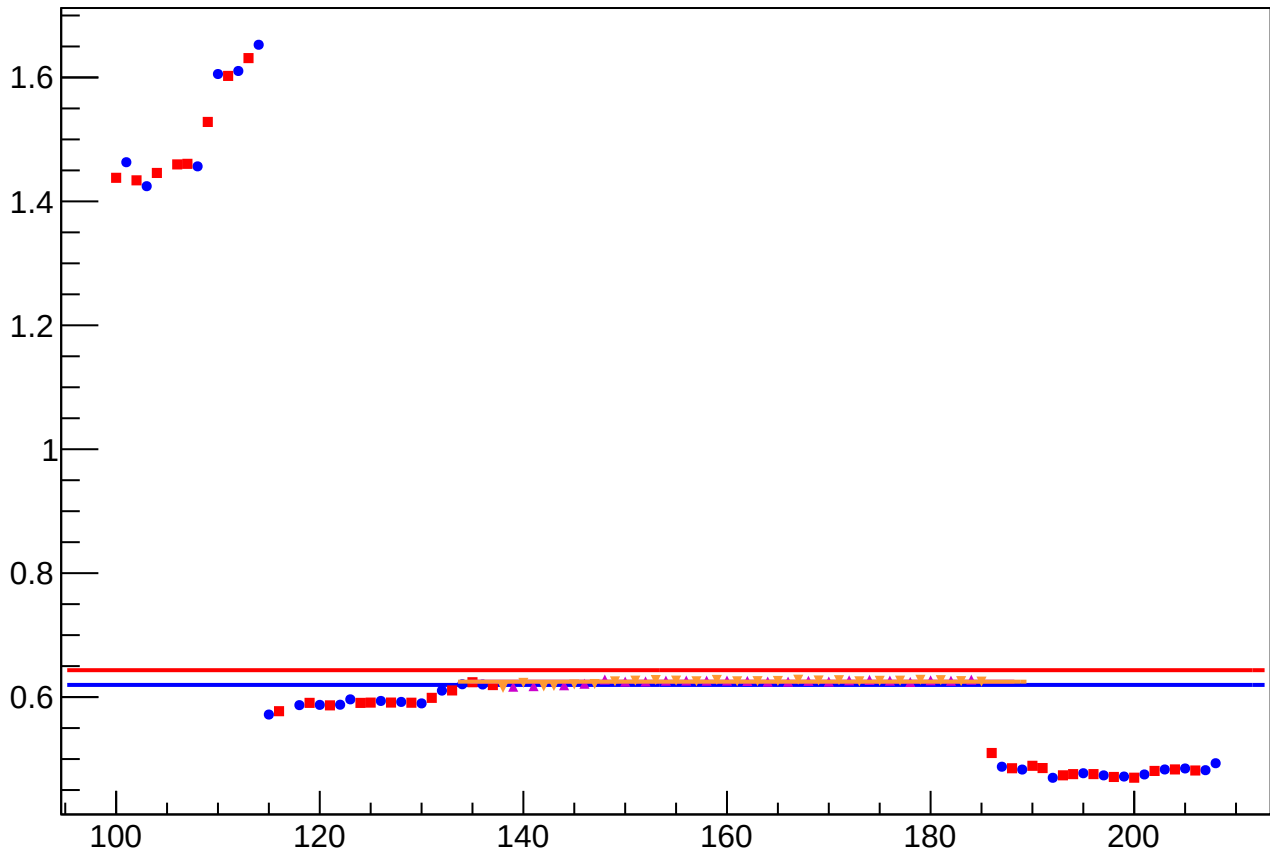
Right: 0.029+/-0.000 χ^2/NDF : 12893497.3/58

In: 0.022+/-0.000 χ^2/NDF :8524855.5/50

Out: 0.022+/-0.000 χ^2/NDF :8952137.3/55

All: 0.022+/-0.000 χ^2/NDF : 17477038.3/106

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.620+/-0.000 χ^2/NDF : 5075128173.9/27

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.643+/-0.000 χ^2/NDF : 6048627339.8/30

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

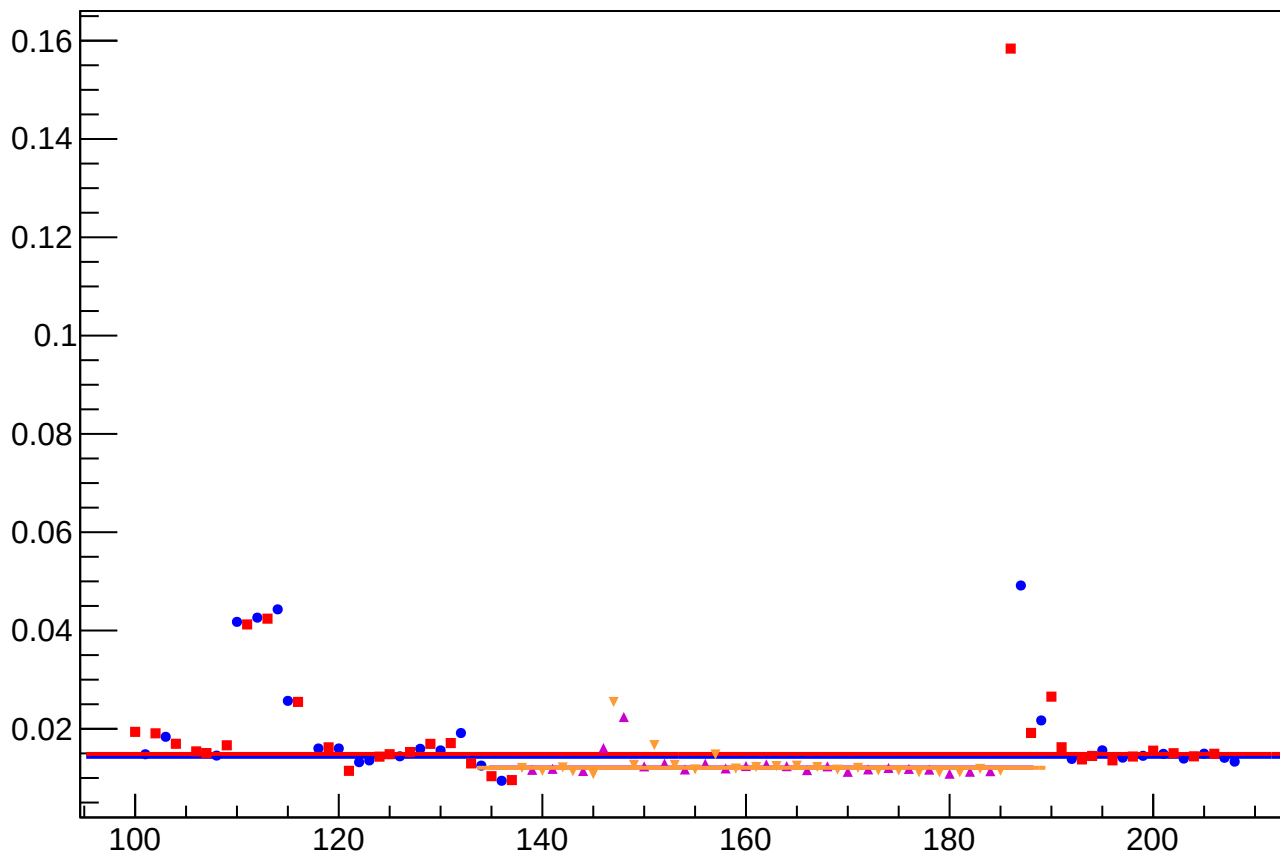
Right: 0.631+/-0.000 χ^2/NDF : 11141088616.0/58

In: 0.623+/-0.000 χ^2/NDF :5077355423.5/50

Out: 0.631+/-0.000 χ^2/NDF :6063804648.0/55

All: 0.627+/-0.000 χ^2/NDF : 11146932371.8/112

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1652688.8/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2073759.0/30

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

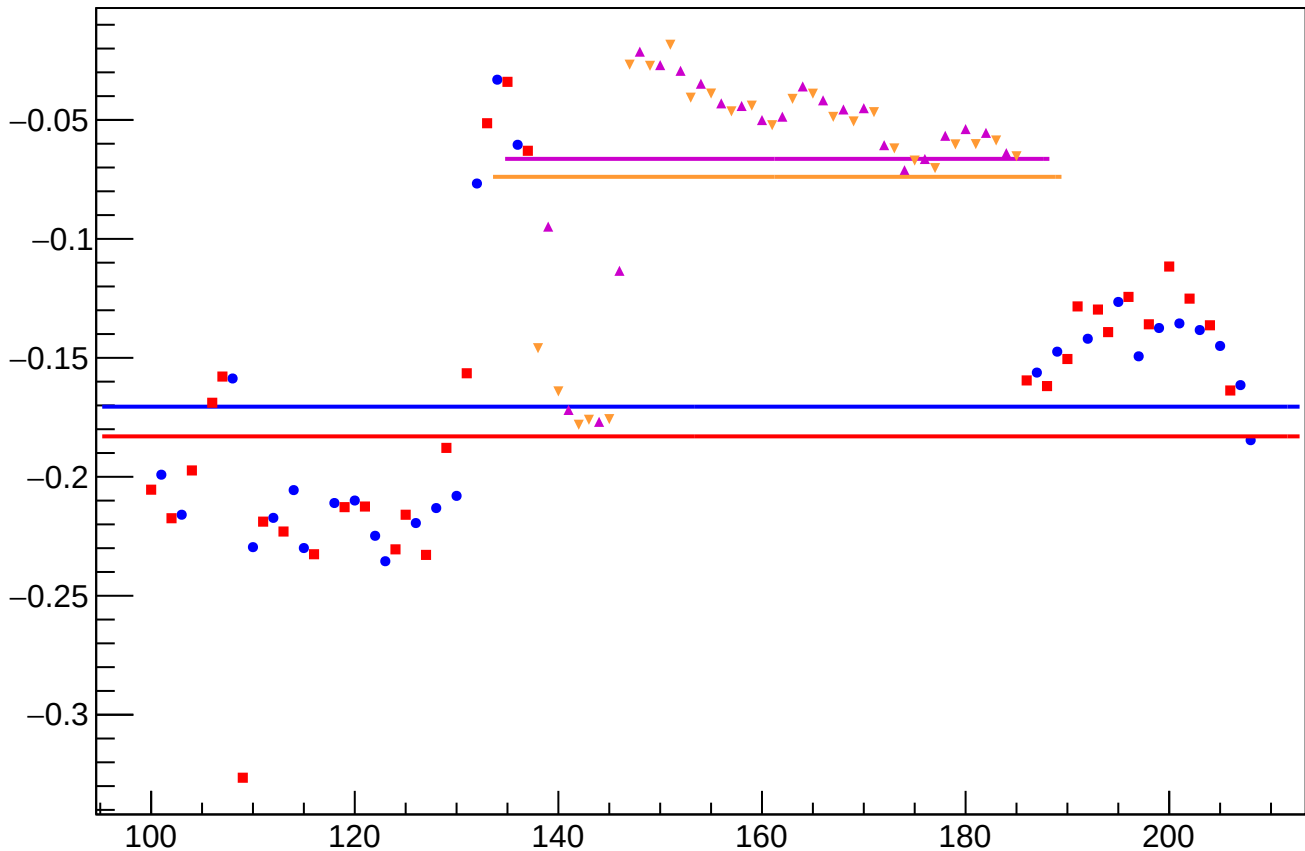
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3746916.3/58

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2524774.0/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3366304.2/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5892679.0/106

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68452692.6/27

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85890993.6/30

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

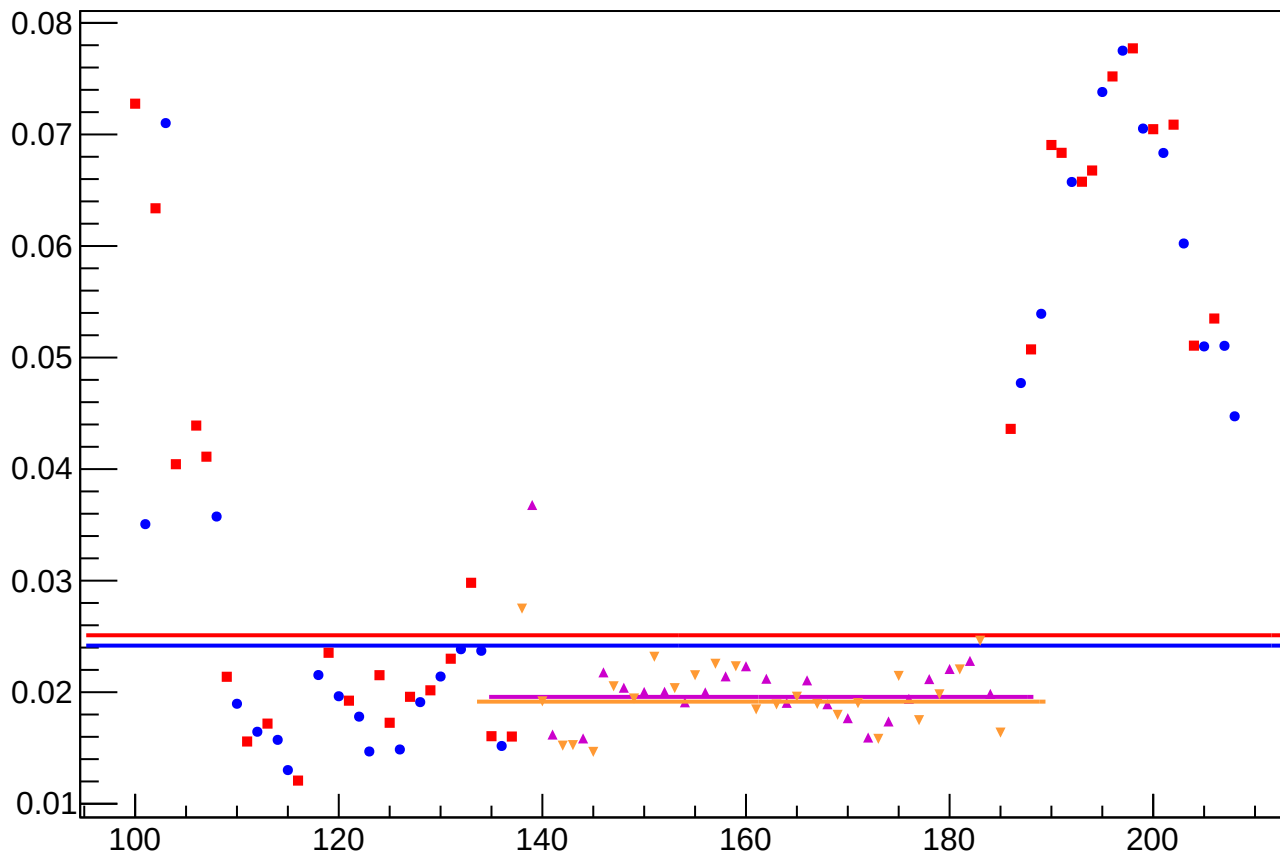
Right: -0.177+/-0.000 χ^2/NDF : 155569379.4/58

In: -0.097+/-0.000 χ^2/NDF : 266121014.2/50

Out: -0.104+/-0.000 χ^2/NDF : 327754050.8/55

All: -0.101+/-0.000 χ^2/NDF : 594946486.5/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7486466.9/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641027.3/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7840302.6/30

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

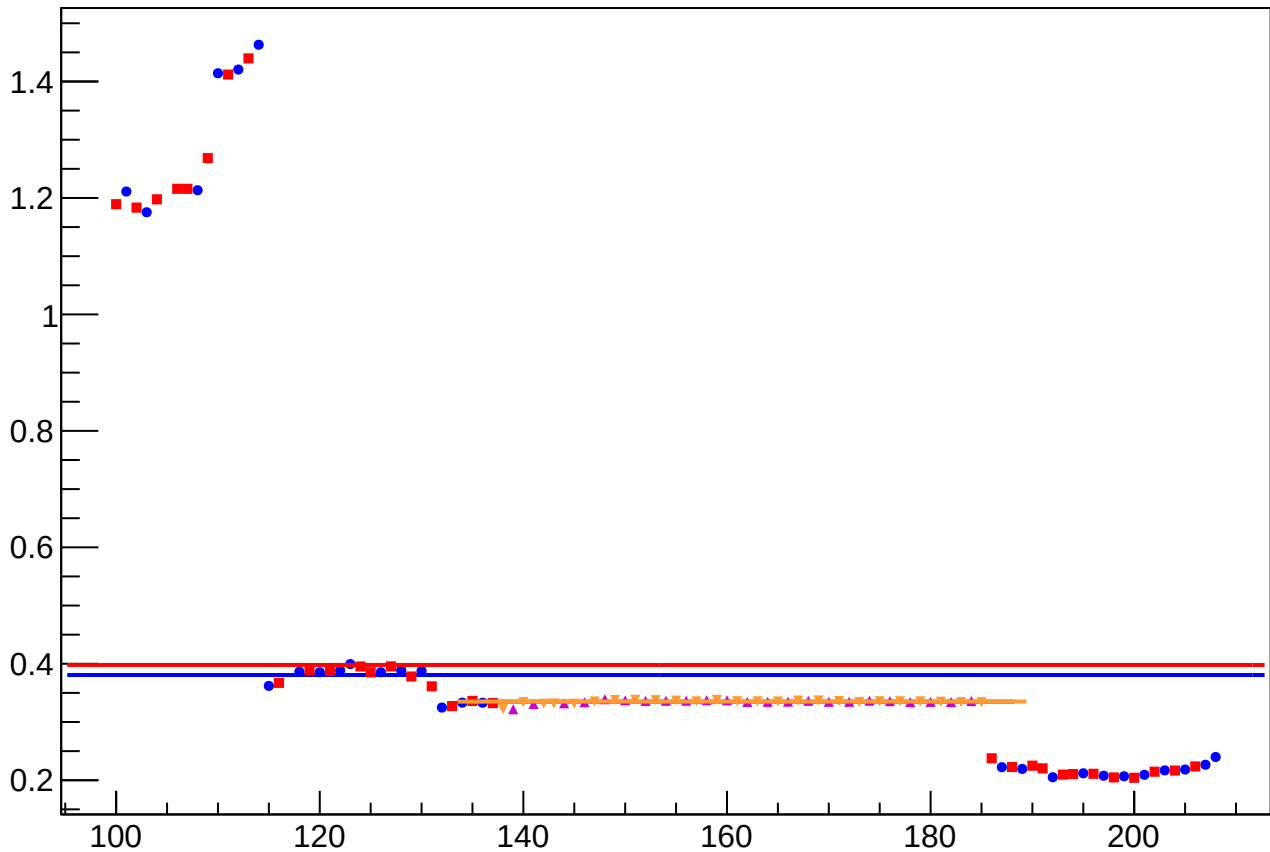
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15340267.1/58

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8610701.8/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9278332.3/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17890689.2/106

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 7494898293.9/27

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.398+/-0.000 χ^2/NDF : 8528404288.5/30

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

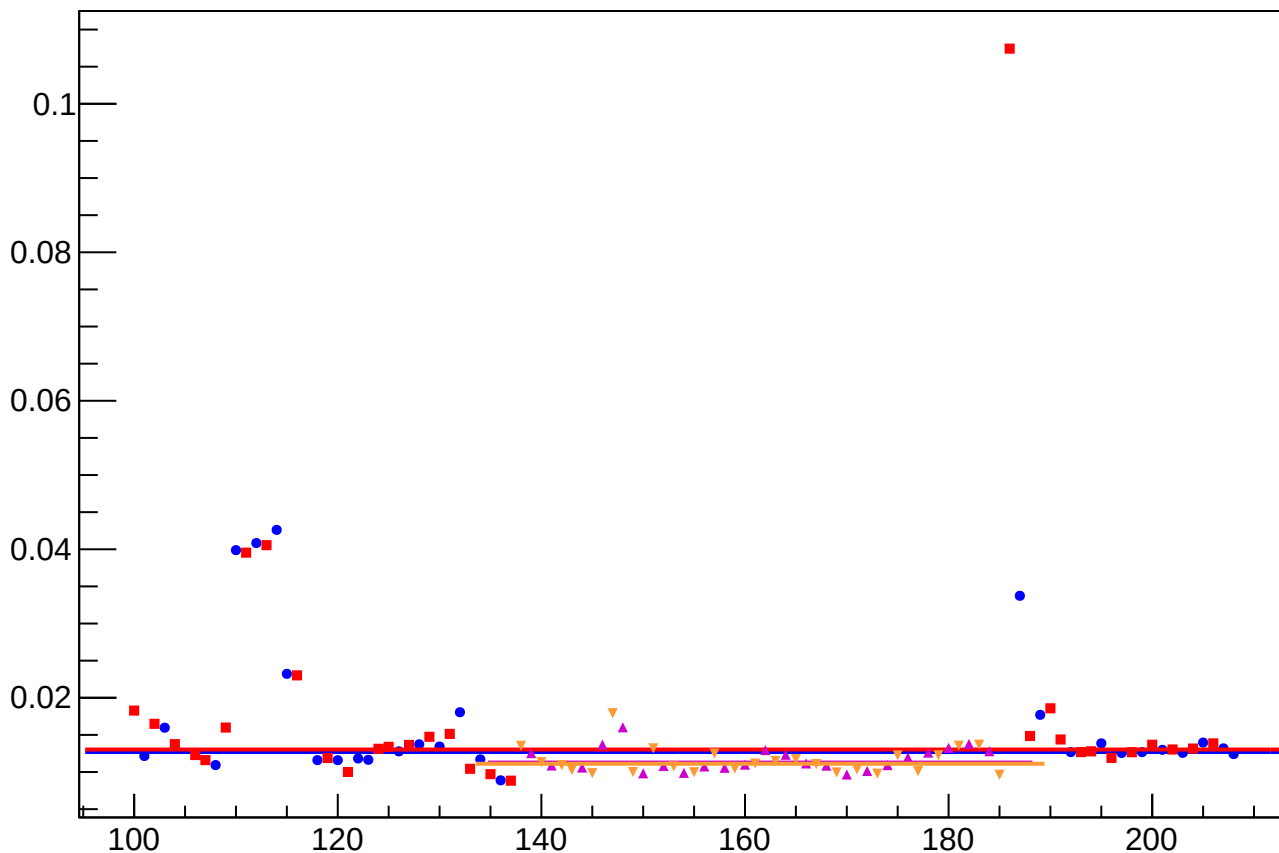
Right: 0.389+/-0.000 χ^2/NDF : 16035012145.7/58

In: 0.352+/-0.000 χ^2/NDF :7600096683.1/50

Out: 0.357+/-0.000 χ^2/NDF :8728369374.0/55

All: 0.355+/-0.000 χ^2/NDF : 16331183721.5/112

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1527100.0/27

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1940293.0/30

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

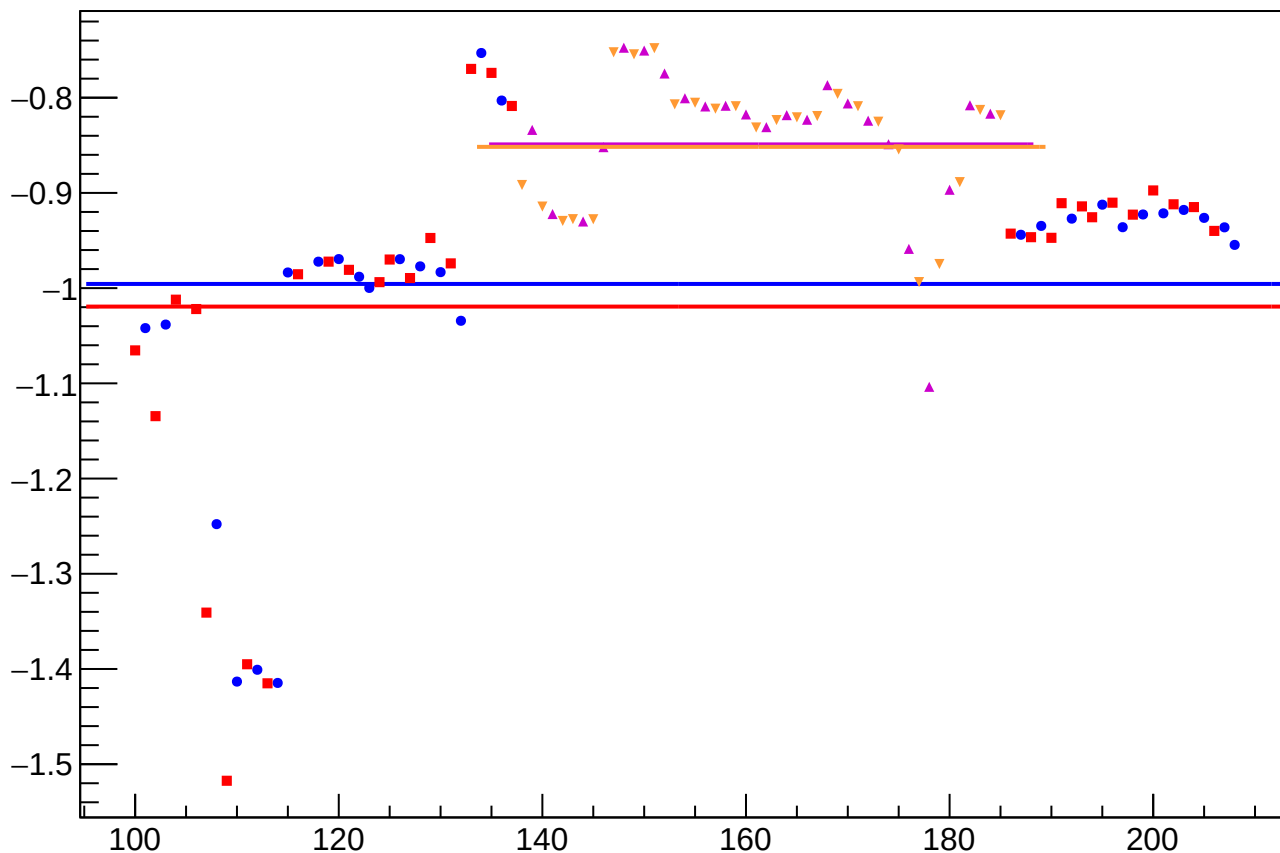
Right: 0.013+/-0.000 χ^2/NDF : 3476087.9/58

In: 0.012+/-0.000 χ^2/NDF : 2230958.4/50

Out: 0.012+/-0.000 χ^2/NDF : 2917076.8/55

All: 0.012+/-0.000 χ^2/NDF : 5148119.5/106

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.996 $\pm$ 0.000 χ^2 /NDF: 403814201.8/27

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.019 $\pm$ 0.000 χ^2 /NDF: 556834044.4/30

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

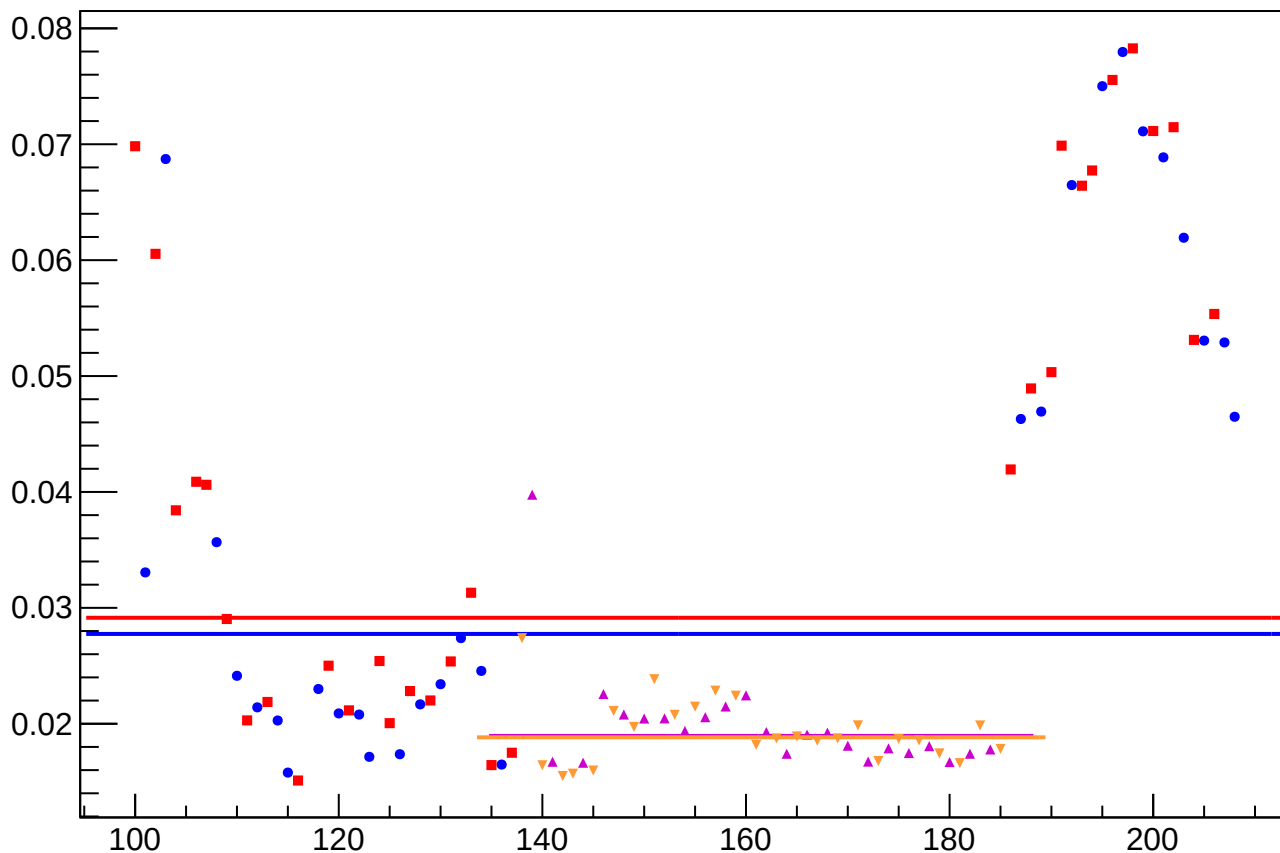
Right: -1.007 $\pm$ 0.000 χ^2 /NDF: 964196417.6/58

In: -0.885 $\pm$ 0.000 χ^2 /NDF:867492228.9/50

Out: -0.890 $\pm$ 0.000 χ^2 /NDF:1013860464.2/55

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1881893024.1/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6373846.8/27

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6388586.4/30

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

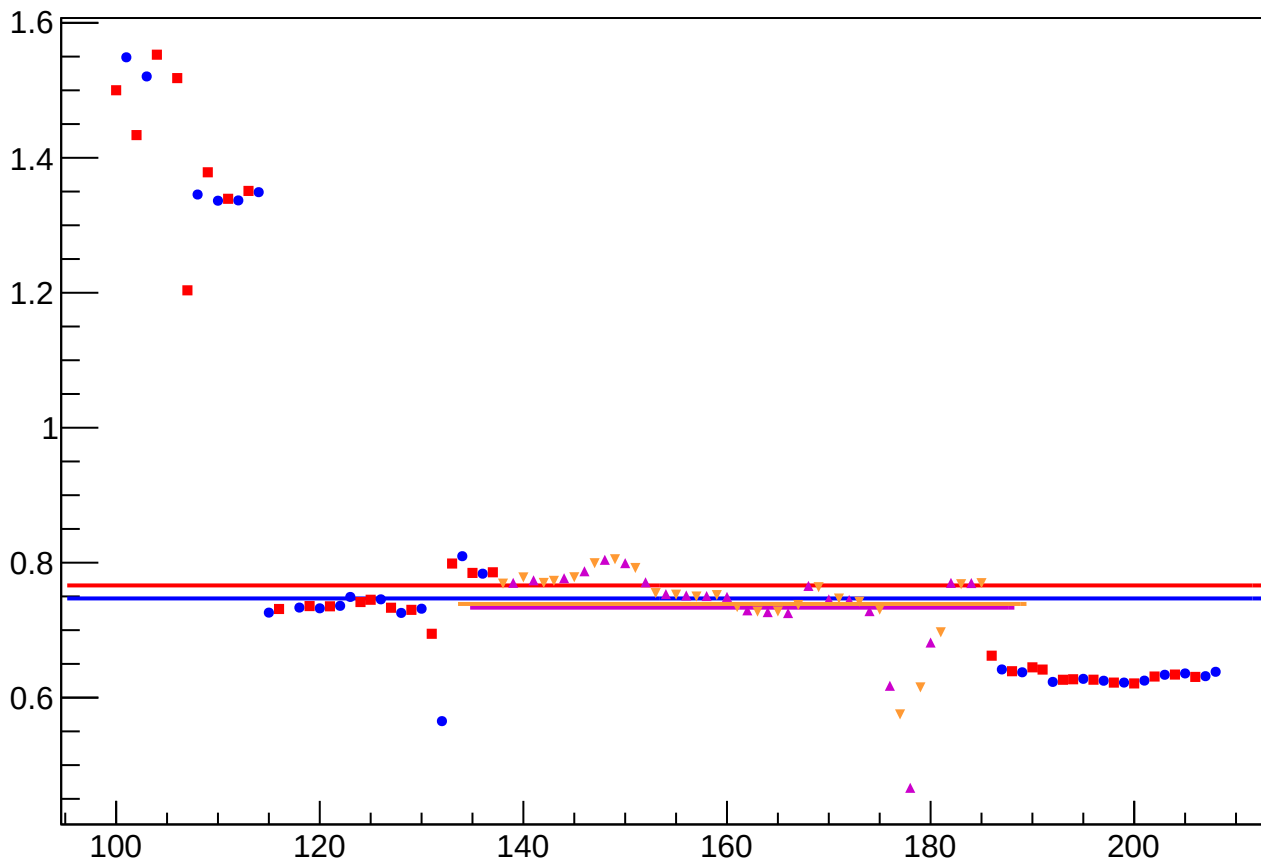
Right: 0.028+/-0.000 χ^2/NDF : 12786888.6/58

In: 0.021+/-0.000 χ^2/NDF : 8513341.7/50

Out: 0.021+/-0.000 χ^2/NDF : 8904565.4/55

All: 0.021+/-0.000 χ^2/NDF : 17418037.4/106

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.747 $\pm$ 0.000 χ^2 /NDF: 3481182963.9/27

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.766 $\pm$ 0.000 χ^2 /NDF: 3760823417.6/30

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

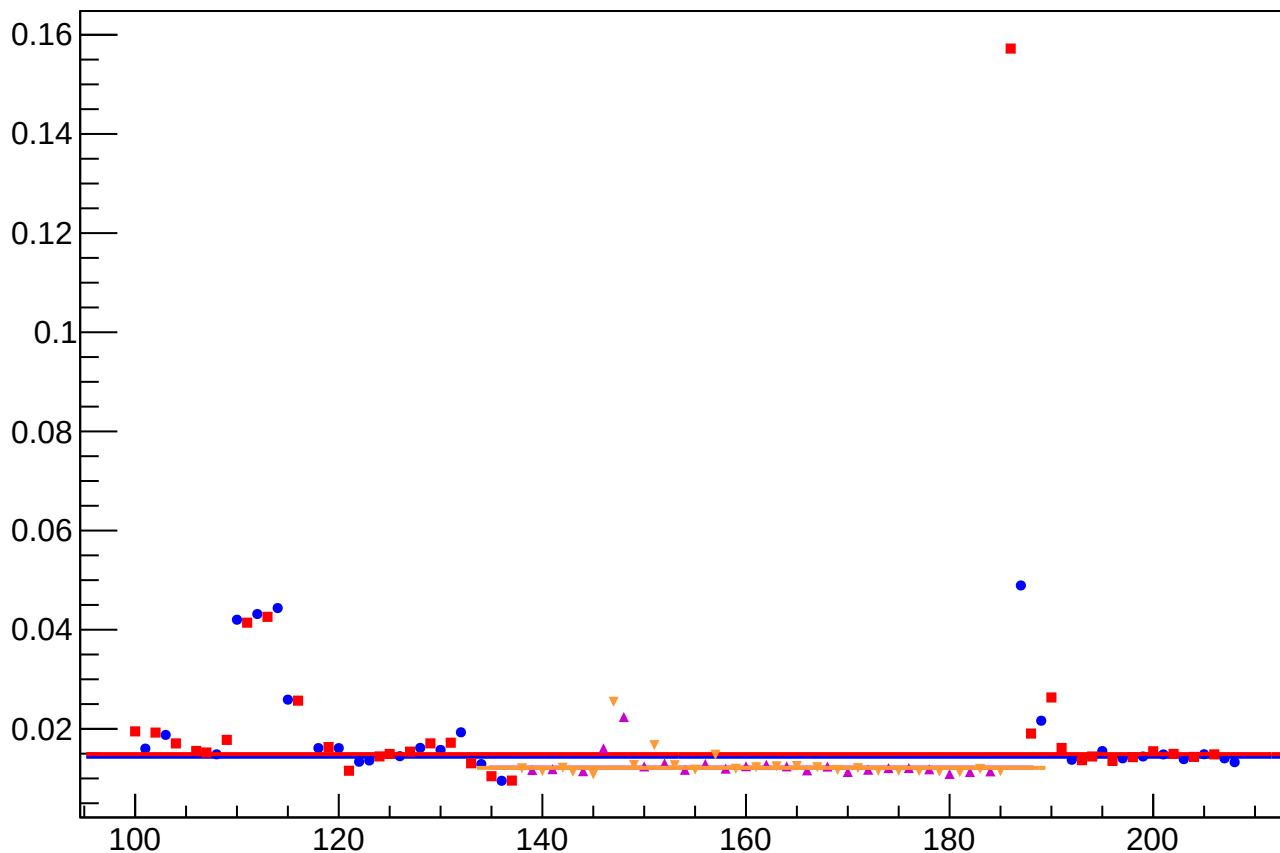
Right: 0.756 $\pm$ 0.000 χ^2 /NDF: 7253307649.4/58

In: 0.738 $\pm$ 0.000 χ^2 /NDF:4058945183.4/50

Out: 0.748 $\pm$ 0.000 χ^2 /NDF:4123890661.2/55

All: 0.743 $\pm$ 0.000 χ^2 /NDF: 8191267541.3/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1655373.0/27

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2078143.0/30

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

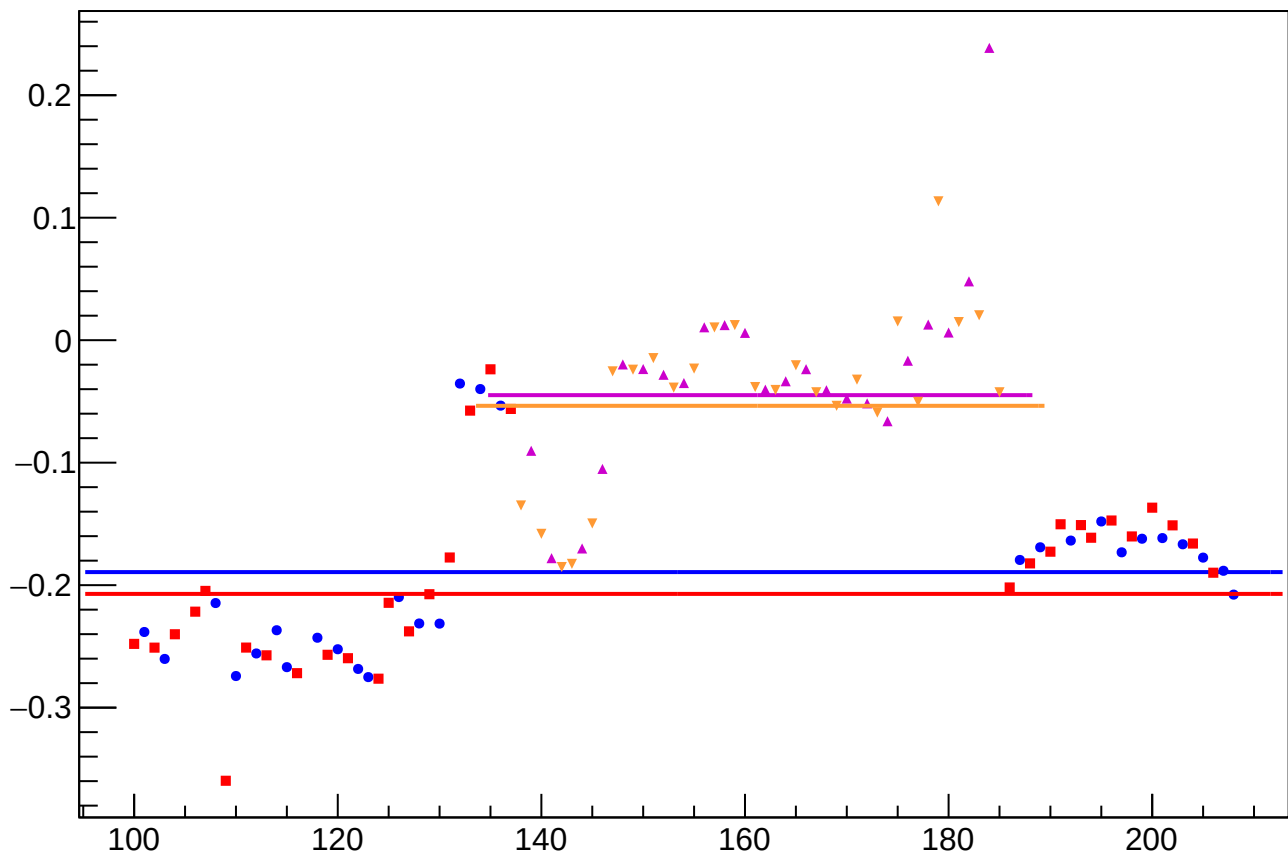
Right: 0.015+/-0.000 χ^2/NDF : 3750981.6/58

In: 0.013+/-0.000 χ^2/NDF : 2521545.4/50

Out: 0.013+/-0.000 χ^2/NDF : 3328095.3/55

All: 0.013+/-0.000 χ^2/NDF : 5851256.0/106

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189+/-0.000 χ^2/NDF : 106978323.3/27

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.207+/-0.000 χ^2/NDF : 113821170.2/30

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

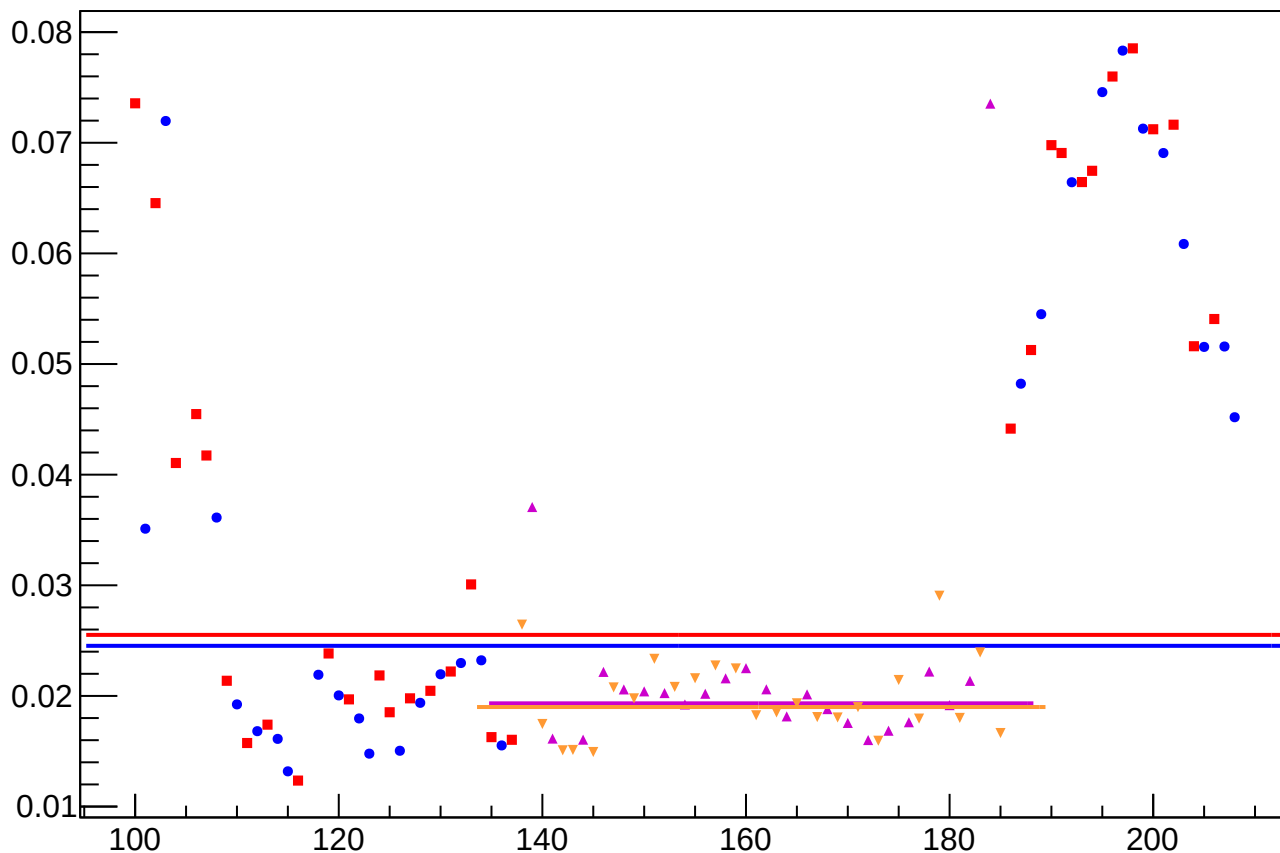
Right: -0.198+/-0.000 χ^2/NDF : 223219485.7/58

In: -0.087+/-0.000 χ^2/NDF : 463239499.5/50

Out: -0.095+/-0.000 χ^2/NDF : 540107782.5/55

All: -0.091+/-0.000 χ^2/NDF : 1004956126.0/1

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 7430488.2/27

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.026+/-0.000 χ^2/NDF : 7792071.3/30

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

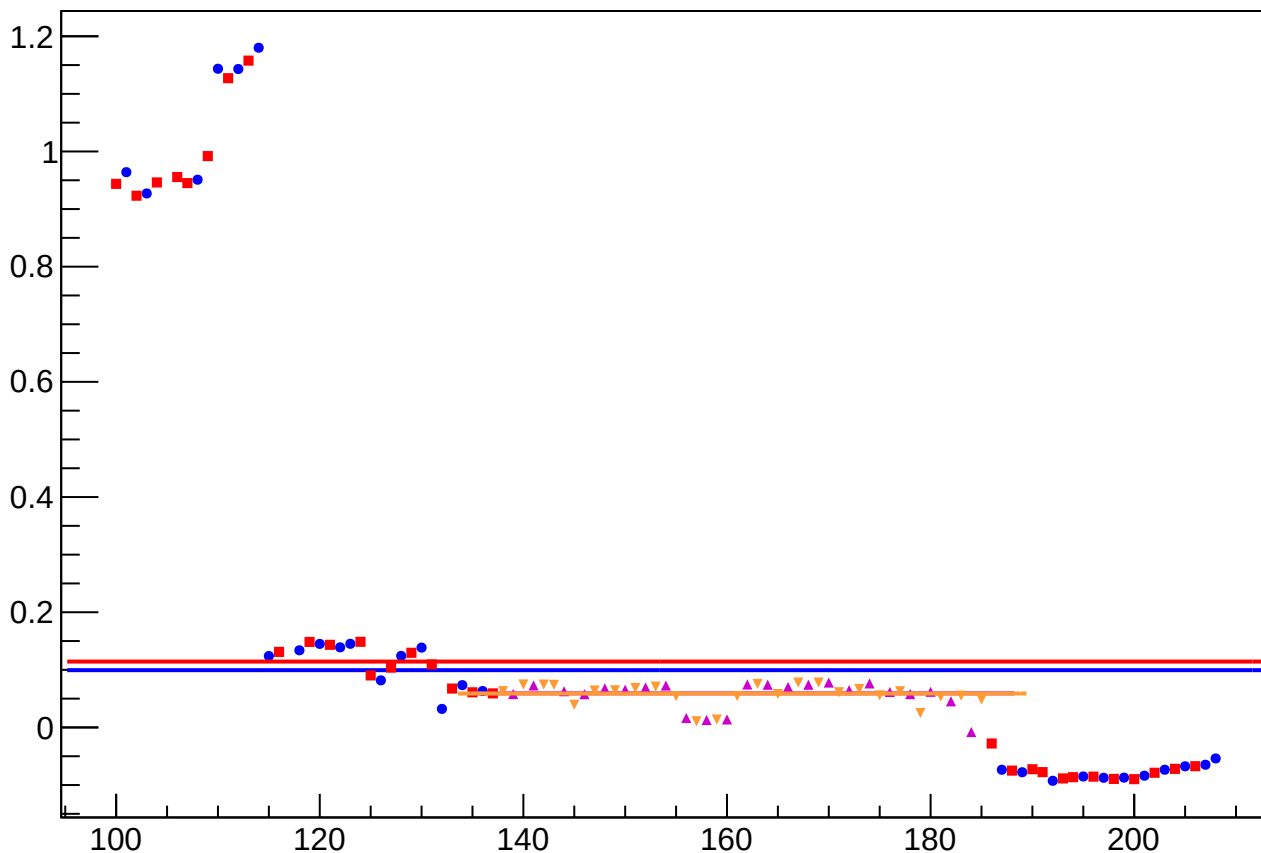
Right: 0.025+/-0.000 χ^2/NDF : 15237484.8/58

In: 0.021+/-0.000 χ^2/NDF : 8916214.7/50

Out: 0.021+/-0.000 χ^2/NDF : 9423248.0/55

All: 0.021+/-0.000 χ^2/NDF : 18340015.4/106

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.099 $\pm$ 0.000 χ^2 /NDF: 8095459629.2/27

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.114 $\pm$ 0.000 χ^2 /NDF: 8983692294.2/30

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

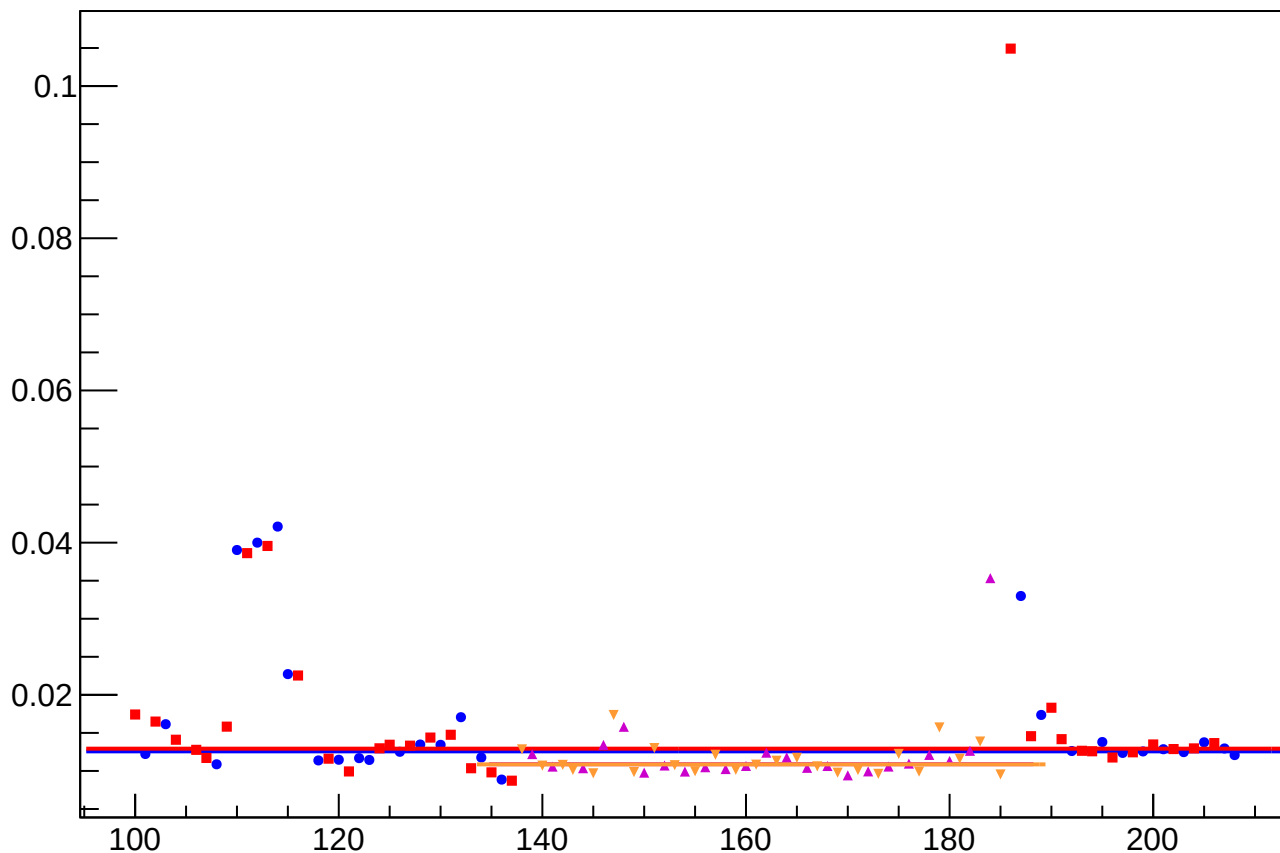
Right: 0.107 $\pm$ 0.000 χ^2 /NDF: 17088136892.7/58

In: 0.074 $\pm$ 0.000 χ^2 /NDF: 8237001019.6/50

Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 9188019055.3/55

All: 0.076 $\pm$ 0.000 χ^2 /NDF: 17427099576.2/102

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1492649.3/27

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1896598.3/30

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

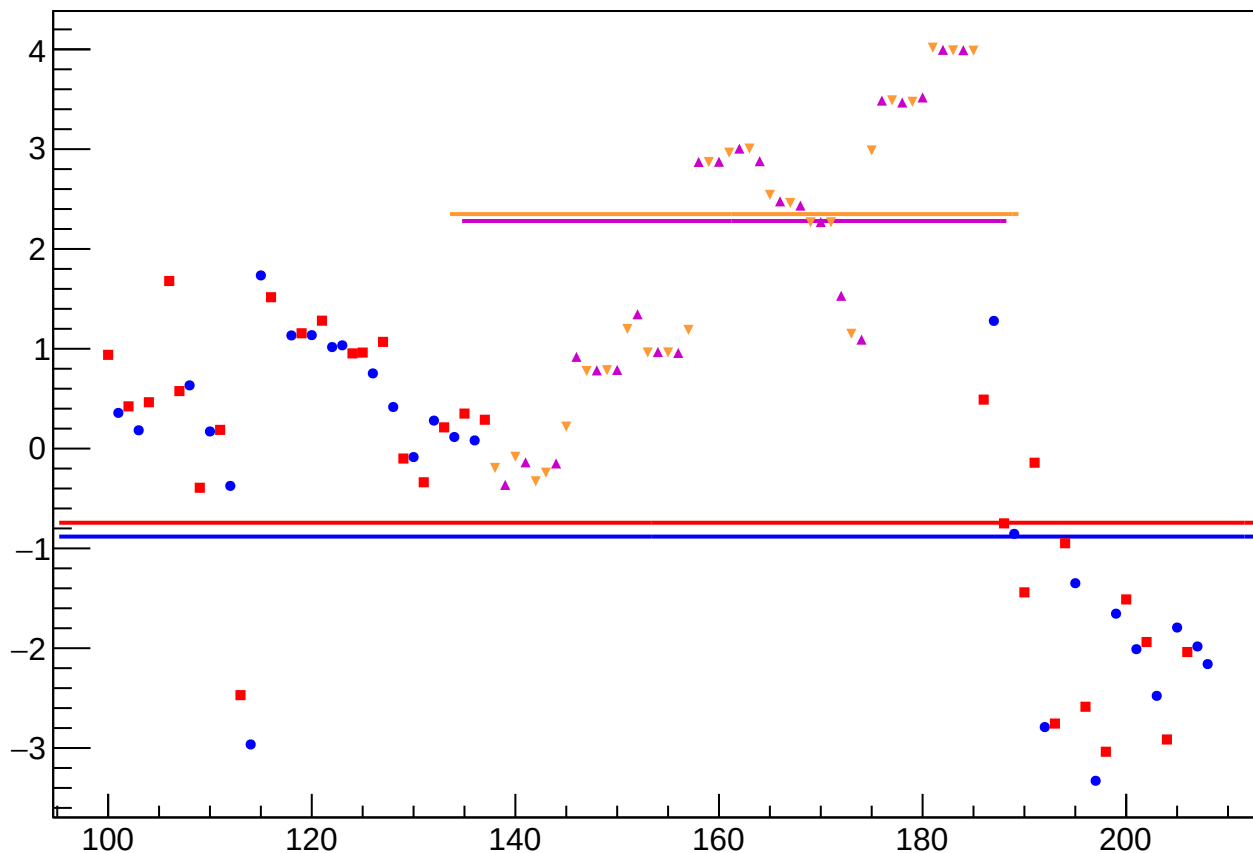
Right: 0.013+/-0.000 χ^2/NDF : 3399136.7/58

In: 0.012+/-0.000 χ^2/NDF : 2312924.5/50

Out: 0.012+/-0.000 χ^2/NDF : 2937140.1/55

All: 0.012+/-0.000 χ^2/NDF : 5251284.1/106

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.882+/-0.000 χ^2/NDF : 6814876735.3/27

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.743+/-0.000 χ^2/NDF : 7585115836.5/30

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

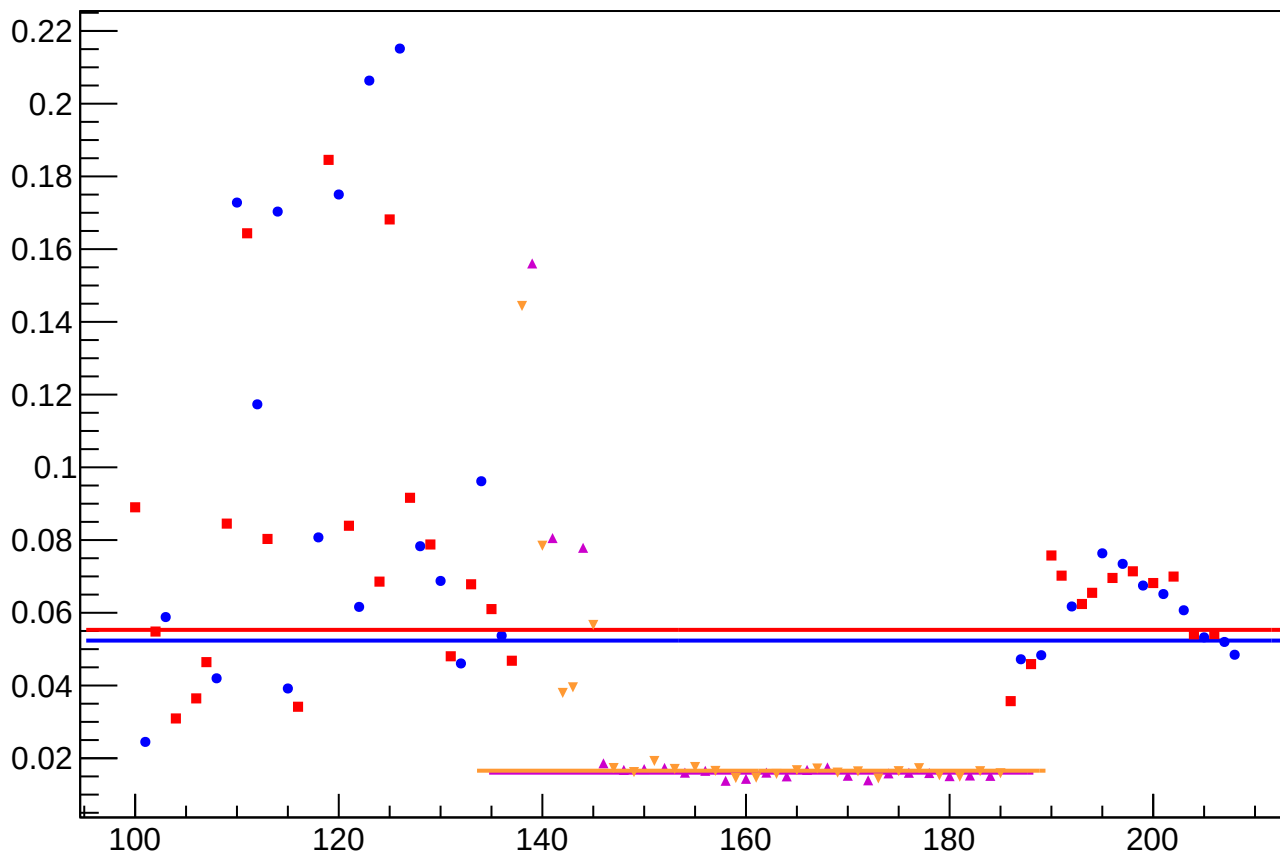
Right: -0.813+/-0.000 χ^2/NDF : 14436283683.1/58

In: 2.064+/-0.000 χ^2/NDF : 103925256894.4/50

Out: 2.140+/-0.000 χ^2/NDF : 104238705894.6/55

All: 2.102+/-0.000 χ^2/NDF : 208325534861.2

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3467099.6/27

Left Out: 0.017+/-0.000 χ^2/NDF :2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2838047.8/30

Left In: 0.016+/-0.000 χ^2/NDF :2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

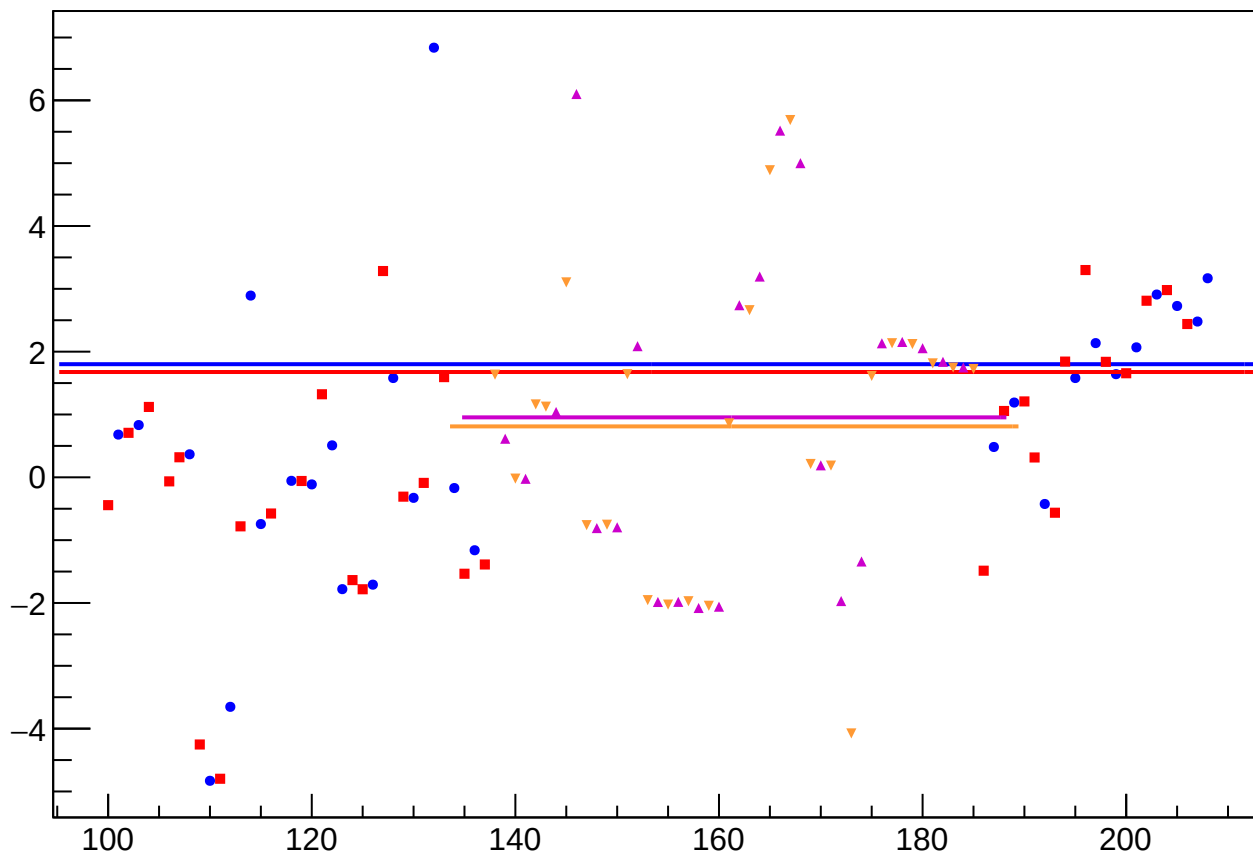
Right: 0.054+/-0.000 χ^2/NDF : 6337884.7/58

In: 0.019+/-0.000 χ^2/NDF :15346745.3/50

Out: 0.019+/-0.000 χ^2/NDF :15830448.6/55

All: 0.019+/-0.000 χ^2/NDF : 31202951.9/106

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.801+/-0.000

χ^2/NDF : 36928921450.4/27

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.741+/-0.000 χ^2/NDF : 70384538449.6/58

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.139+/-0.000 χ^2/NDF : 625084245547.0/50

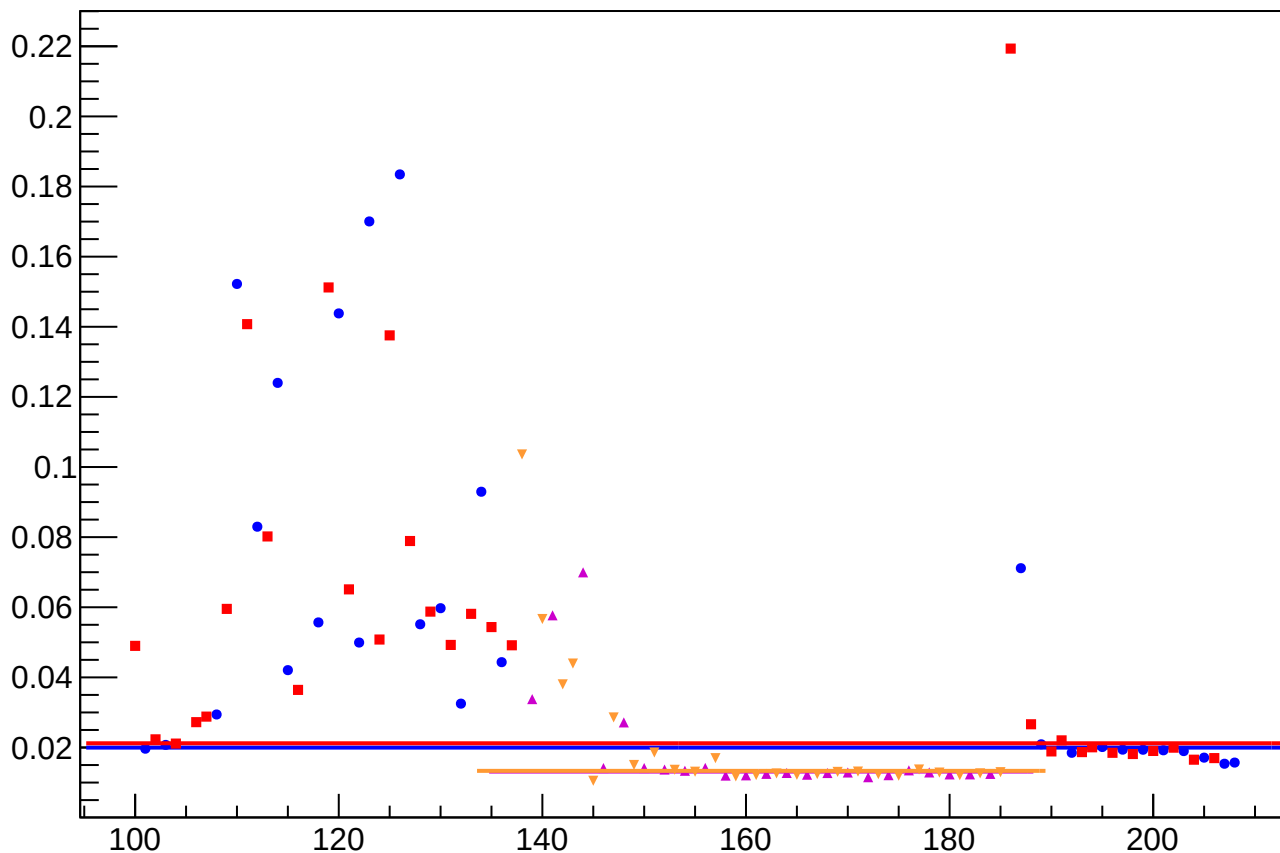
Right Out: 1.676+/-0.000 χ^2/NDF : 33279154545.4/30

Out: 0.987+/-0.000 χ^2/NDF : 553870321038.1/55

Left In: 0.954+/-0.000 χ^2/NDF : 574792794608.3/22

All: 1.064+/-0.000 χ^2/NDF : 1180199909360.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4066861.0/27

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5030573.7/30

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

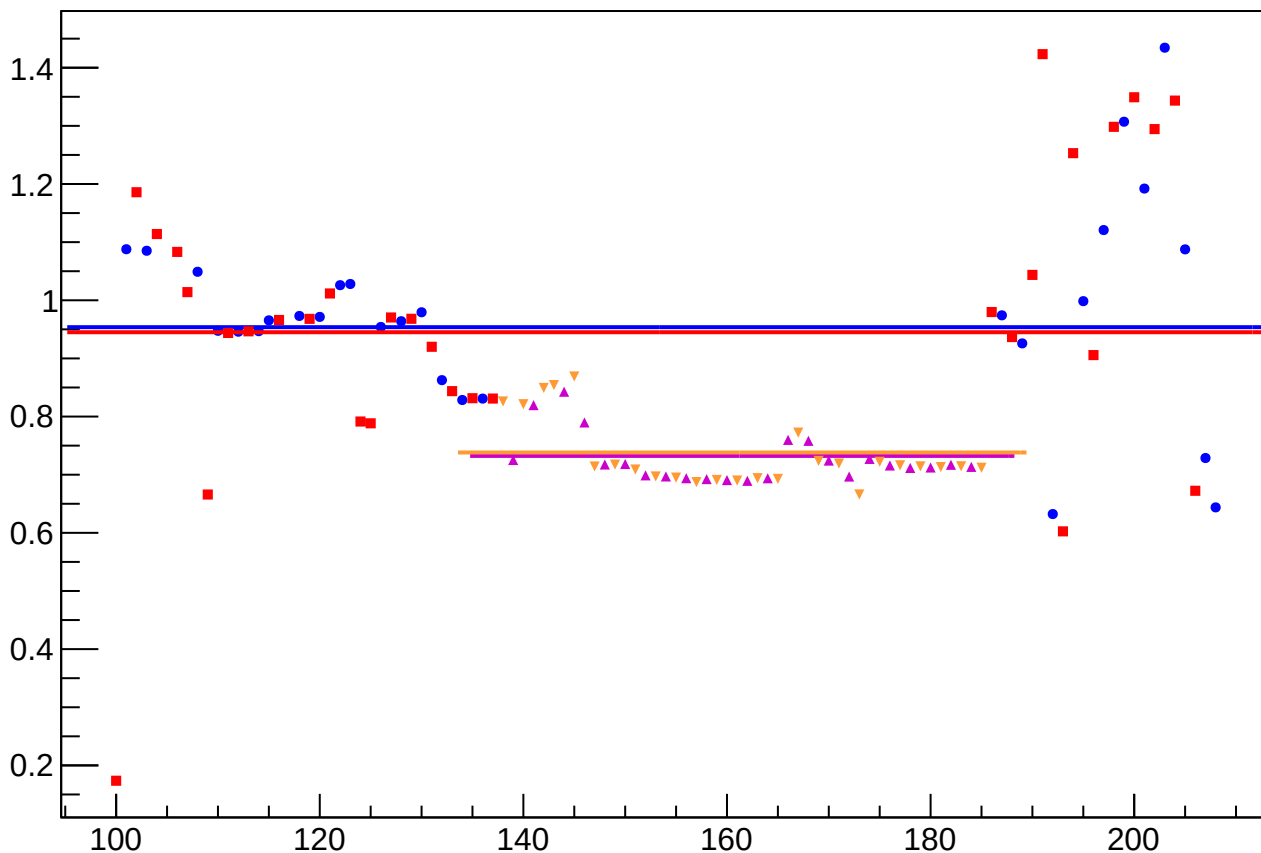
Right: 0.021+/-0.000 χ^2/NDF : 9132038.6/58

In: 0.015+/-0.000 χ^2/NDF :7781149.6/50

Out: 0.015+/-0.000 χ^2/NDF :10008059.2/55

All: 0.015+/-0.000 χ^2/NDF : 17800283.7/106

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 673981926.3/27

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.945+/-0.000 χ^2/NDF : 1053030723.5/30

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

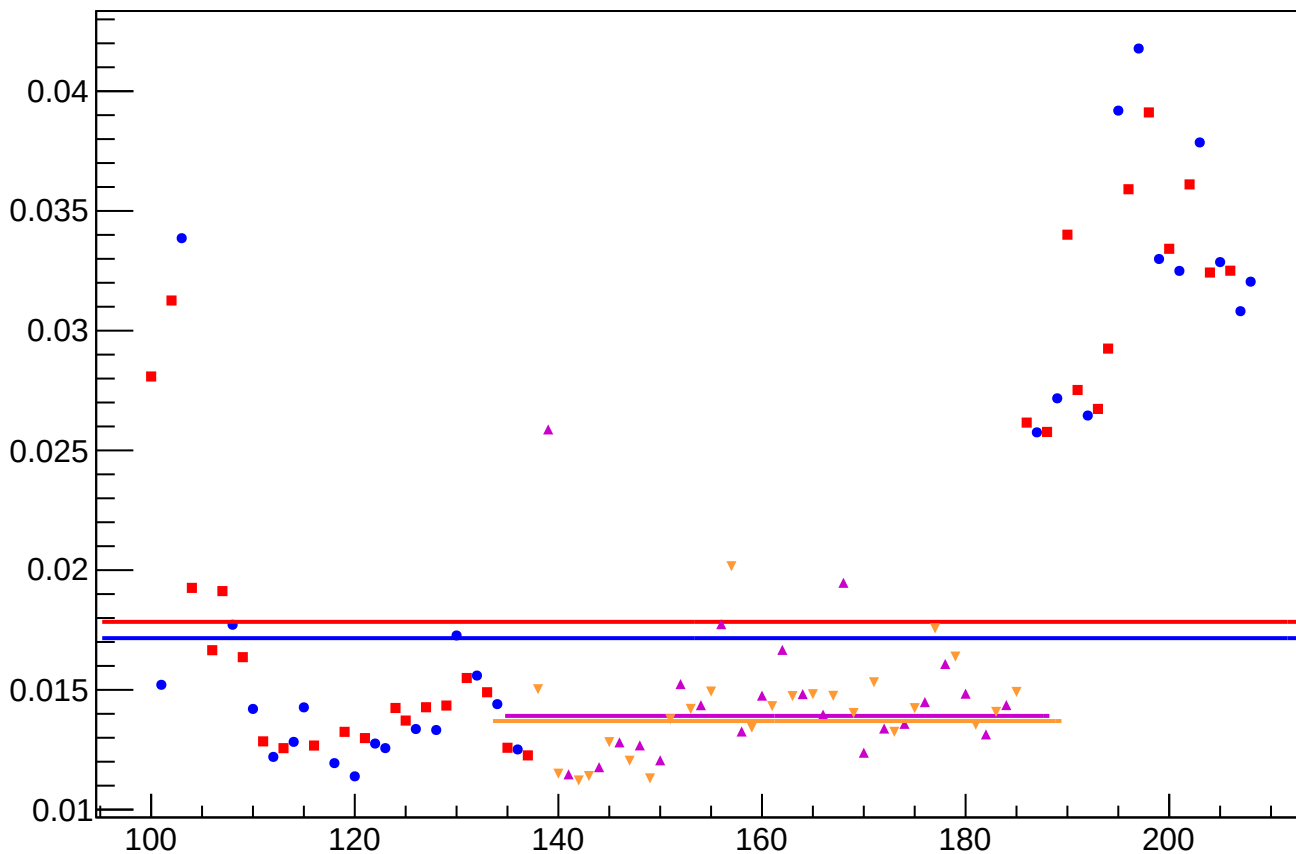
Right: 0.949+/-0.000 χ^2/NDF : 1728413714.4/58

In: 0.802+/-0.000 χ^2/NDF : 2092012218.1/50

Out: 0.800+/-0.000 χ^2/NDF : 2474582398.6/55

All: 0.801+/-0.000 χ^2/NDF : 4566852746.4/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4580160.4/27

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4044009.9/30

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

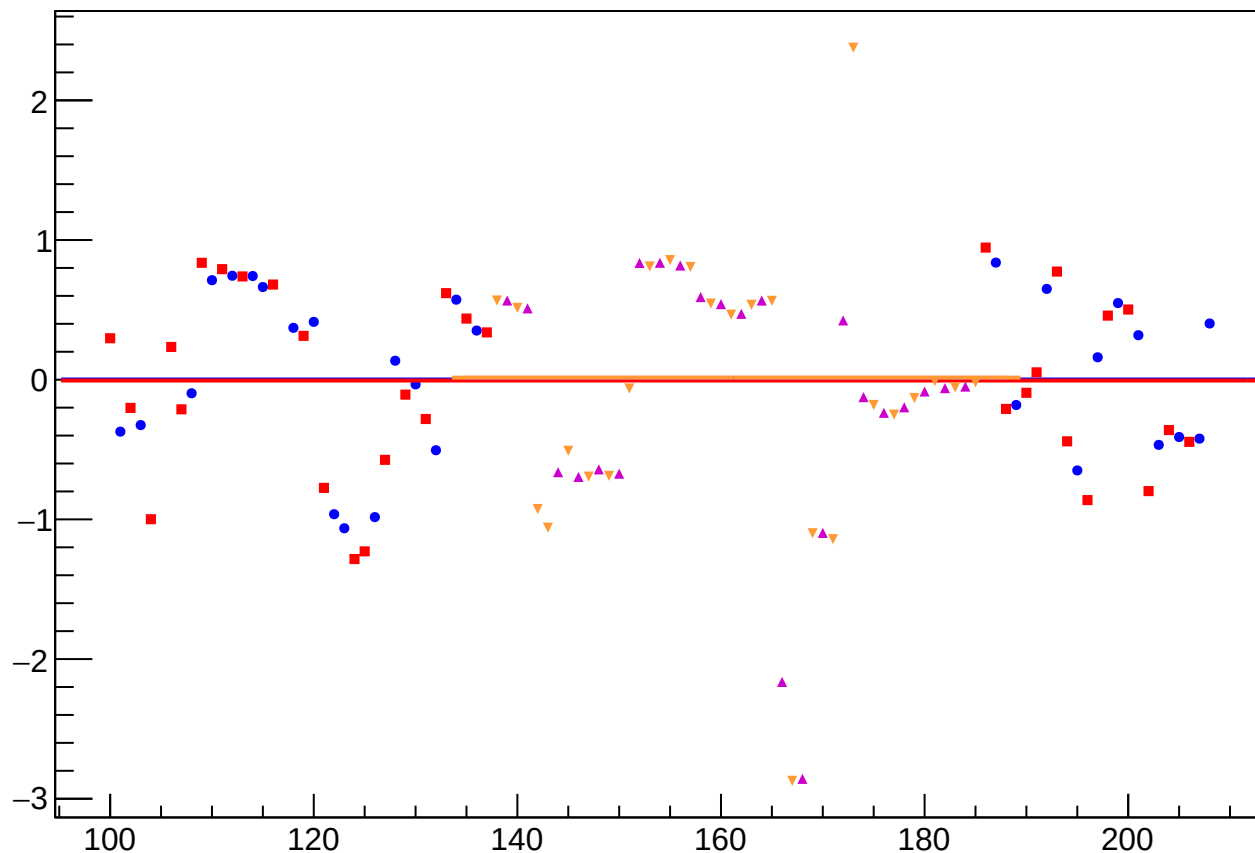
Right: 0.017+/-0.000 χ^2/NDF : 8641387.0/58

In: 0.015+/-0.000 χ^2/NDF : 5911216.0/50

Out: 0.015+/-0.000 χ^2/NDF : 5466159.4/55

All: 0.015+/-0.000 χ^2/NDF : 11377375.7/106

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 20207234828.9/27

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right Out: -0.006+/-0.000

χ^2/NDF : 29550168559.7/30

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Right: -0.002+/-0.000

χ^2/NDF : 49759523182.1/58

In: 0.008+/-0.000

χ^2/NDF : 99659280990.9/50

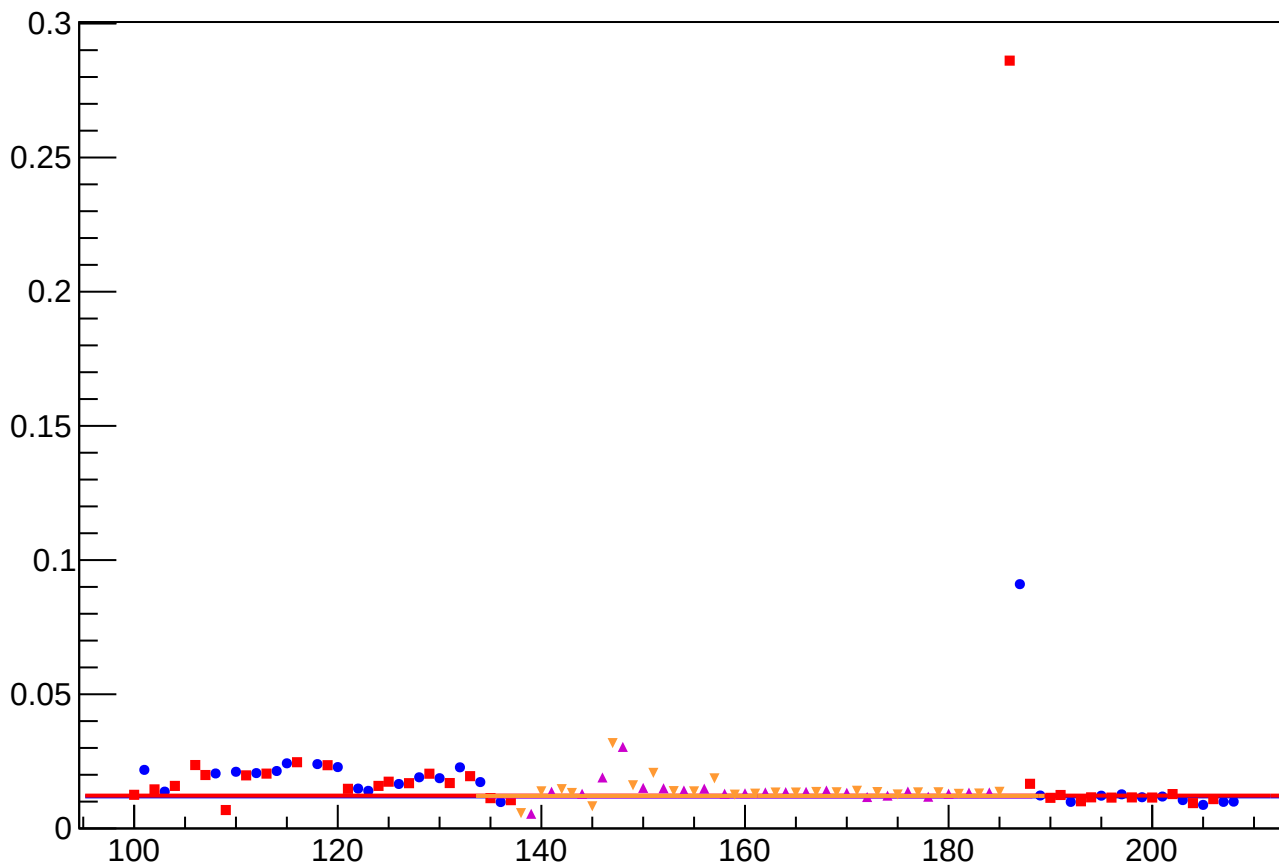
Out: 0.006+/-0.000

χ^2/NDF : 125657647308.6/55

All: 0.007+/-0.000

χ^2/NDF : 225317279502.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2326693.0/27

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2682442.7/30

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

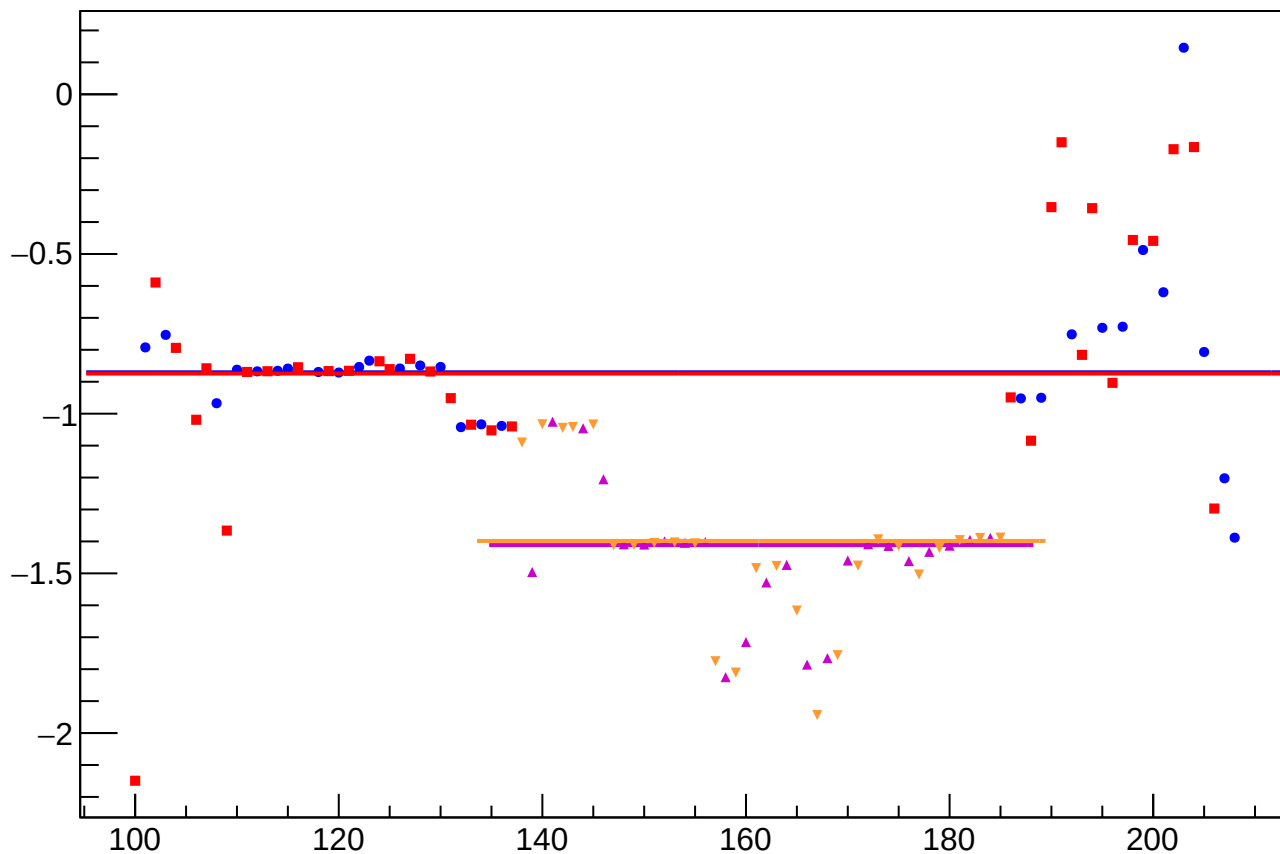
Right: 0.012+/-0.000 χ^2/NDF : 5016509.8/58

In: 0.012+/-0.000 χ^2/NDF :5432669.3/50

Out: 0.012+/-0.000 χ^2/NDF :5791603.5/55

All: 0.012+/-0.000 χ^2/NDF : 11234805.6/106

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.870 ± 0.000 $\chi^2/\text{NDF}: 210077076.4/27$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 394002918.5/30$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

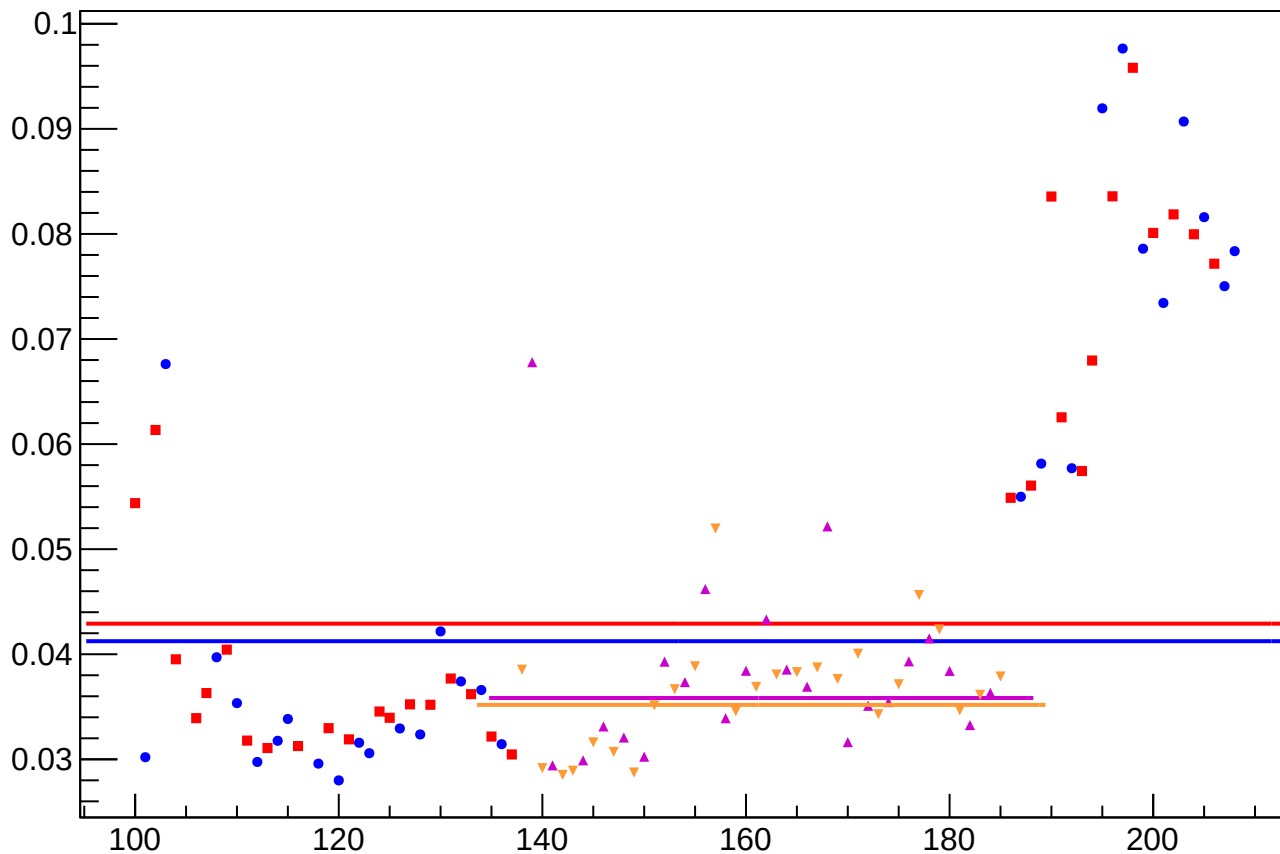
Right: -0.872 ± 0.000 $\chi^2/\text{NDF}: 604131269.3/58$

In: -1.220 ± 0.000 $\chi^2/\text{NDF}: 1963007860.9/50$

Out: -1.223 ± 0.000 $\chi^2/\text{NDF}: 2323932866.3/55$

All: -1.222 ± 0.000 $\chi^2/\text{NDF}: 4287009776.9/111$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.041+/-0.000 χ^2/NDF : 4269139.6/27

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.043+/-0.000 χ^2/NDF : 3545849.6/30

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

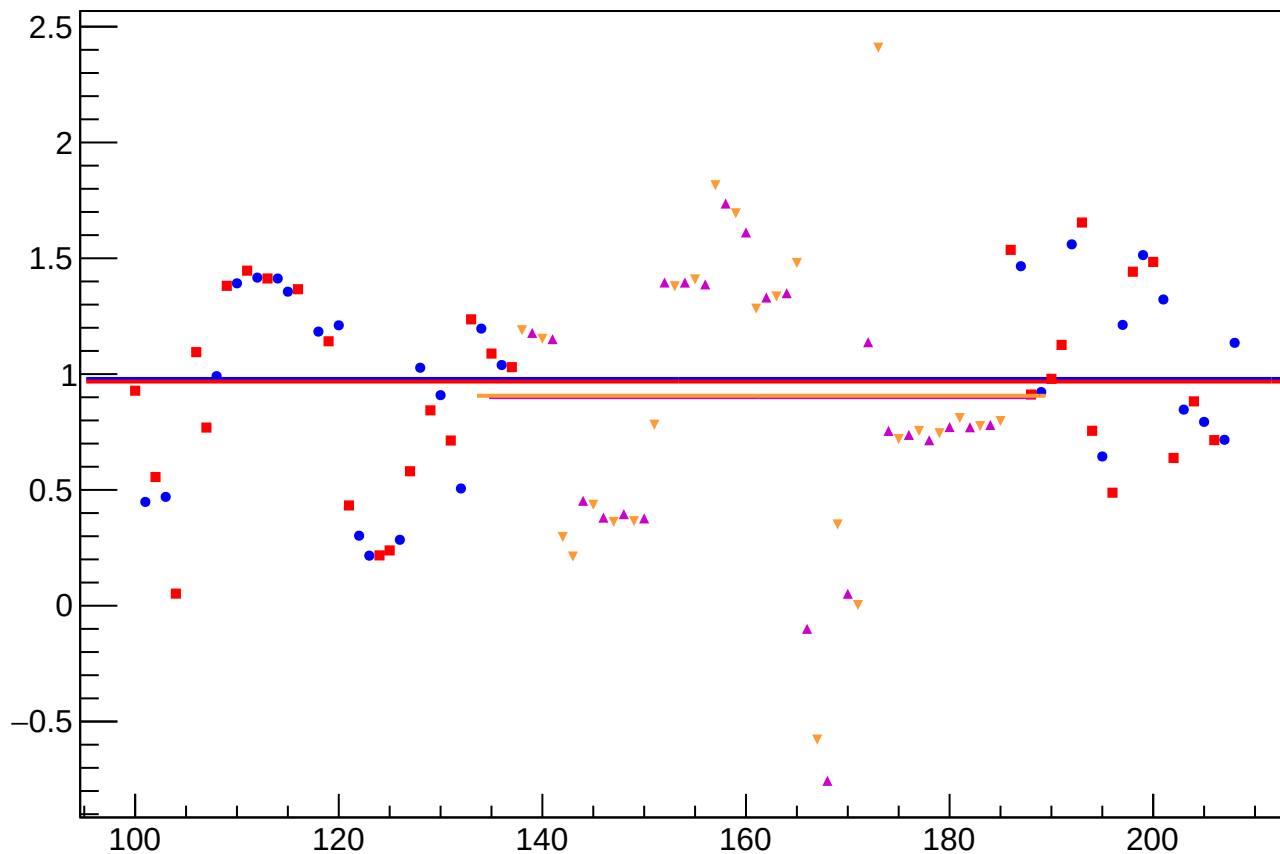
Right: 0.042+/-0.000 χ^2/NDF : 7833224.5/58

In: 0.038+/-0.000 χ^2/NDF : 5407754.9/50

Out: 0.038+/-0.000 χ^2/NDF : 4664014.3/55

All: 0.038+/-0.000 χ^2/NDF : 10071778.6/106

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.979+/-0.000

χ^2/NDF : 22957989765.0/27

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 0.974+/-0.000 χ^2/NDF : 50165617765.7/58

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.940+/-0.000 χ^2/NDF : 90539362489.7/50

Right Out: 0.968+/-0.000

χ^2/NDF : 27195277579.3/30

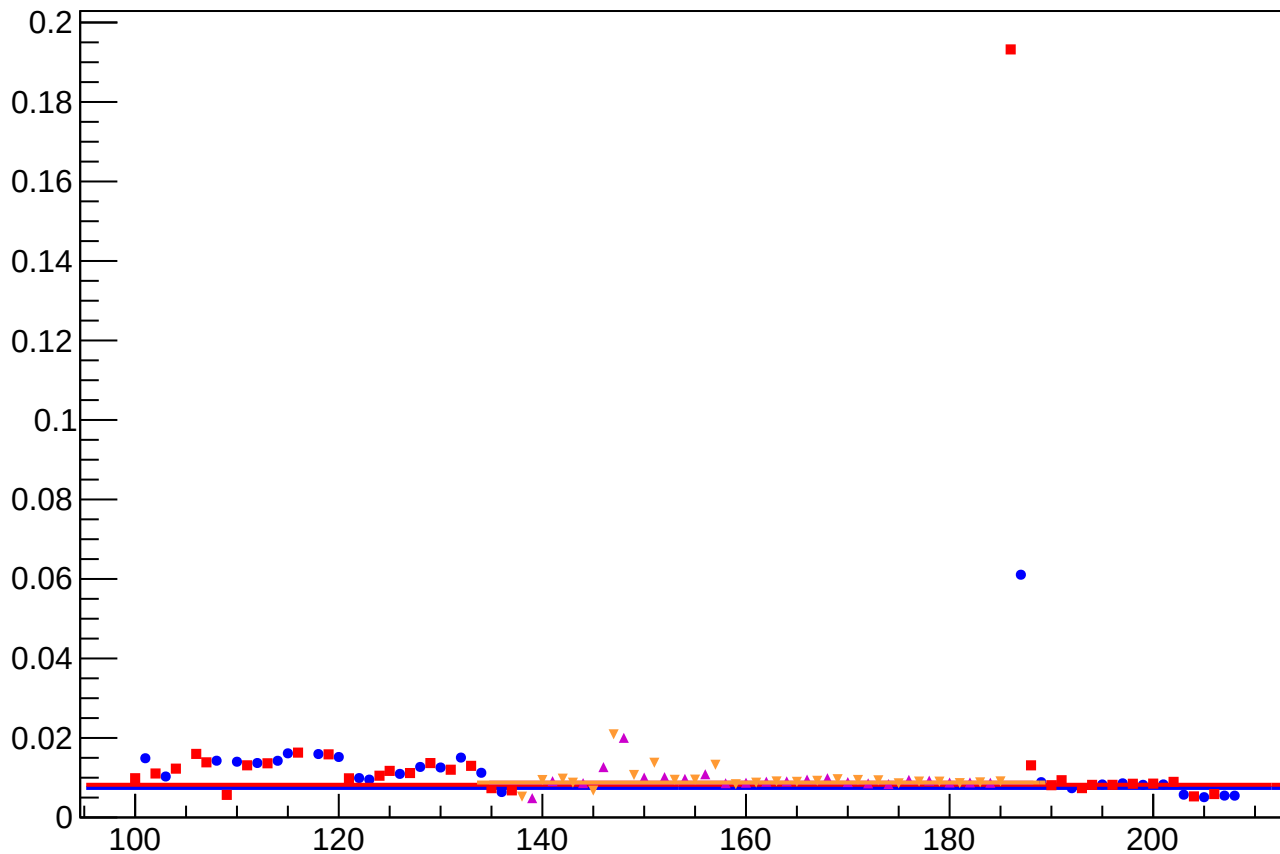
Out: 0.934+/-0.000 χ^2/NDF : 111678966655.2/55

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.937+/-0.000 χ^2/NDF : 202226034359.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3160045.5/27

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698526.2/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3114642.1/30

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1669983.7/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3369008.8/47

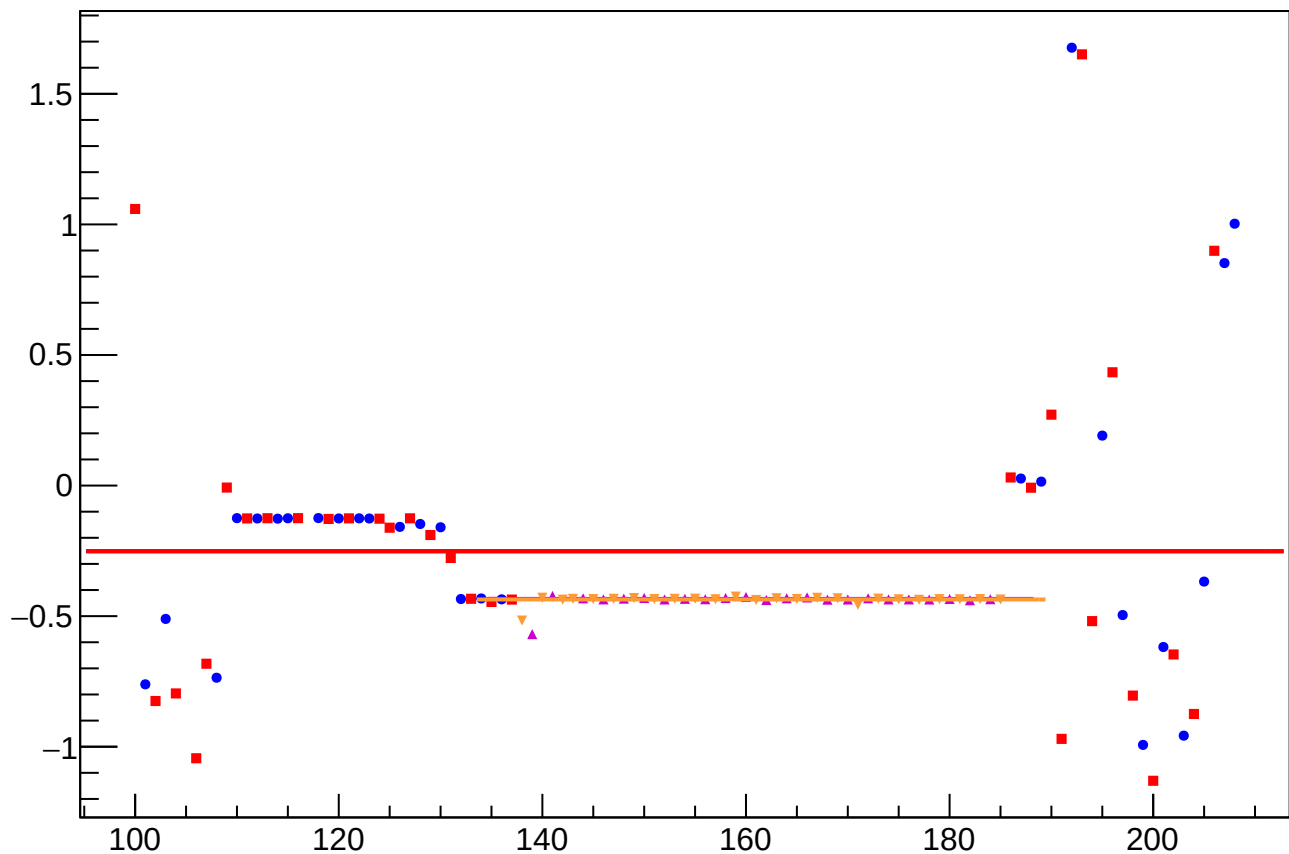
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 6399125.2/58

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5190690.7/50

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:4875670.6/55

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 10152409.9/106

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.252+/-0.000 χ^2/NDF : 3162789533.3/27

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.251+/-0.000 χ^2/NDF : 2658436201.6/30

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

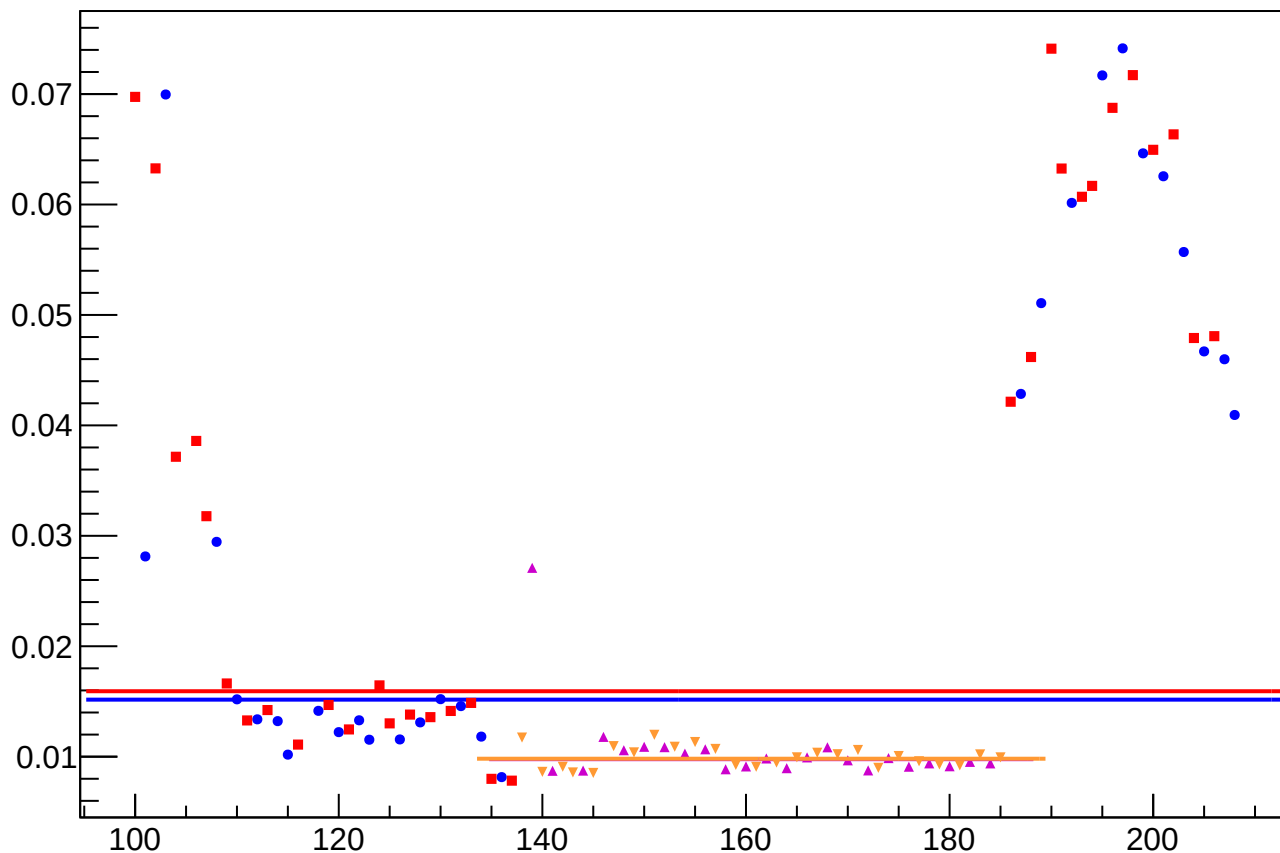
Right: -0.251+/-0.000 χ^2/NDF : 5821232612.9/58

In: -0.401+/-0.000 χ^2/NDF : 4107098247.7/50

Out: -0.406+/-0.000 χ^2/NDF : 3607201946.2/55

All: -0.403+/-0.000 χ^2/NDF : 7716399842.3/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 10187694.1/27

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.016+/-0.000 χ^2/NDF : 10613999.7/30

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

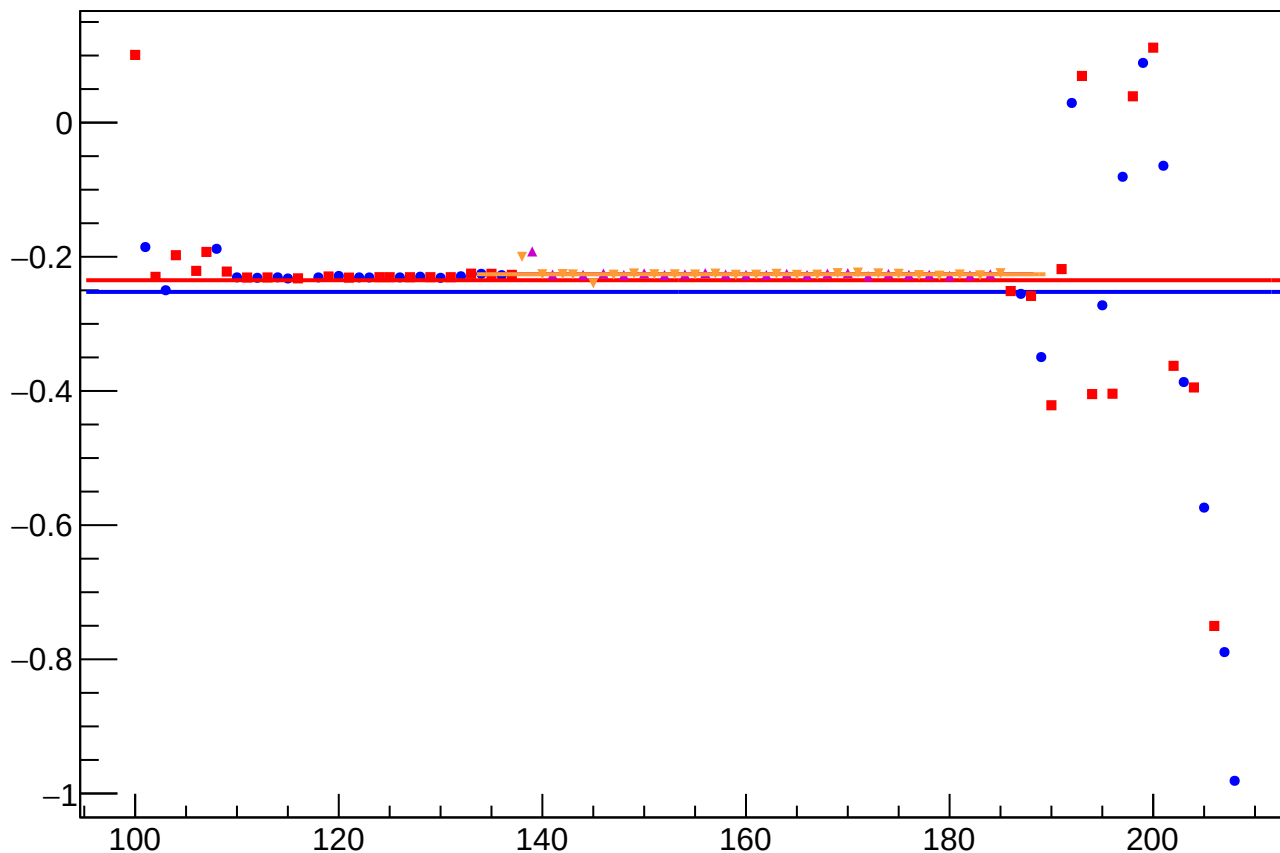
Right: 0.016+/-0.000 χ^2/NDF : 20820863.7/58

In: 0.011+/-0.000 χ^2/NDF : 12591612.4/50

Out: 0.011+/-0.000 χ^2/NDF : 12890255.4/55

All: 0.011+/-0.000 χ^2/NDF : 25482907.1/106

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.252+/-0.000 χ^2/NDF : 22527456766.0/27

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.235+/-0.000 χ^2/NDF : 13480422348.4/30

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

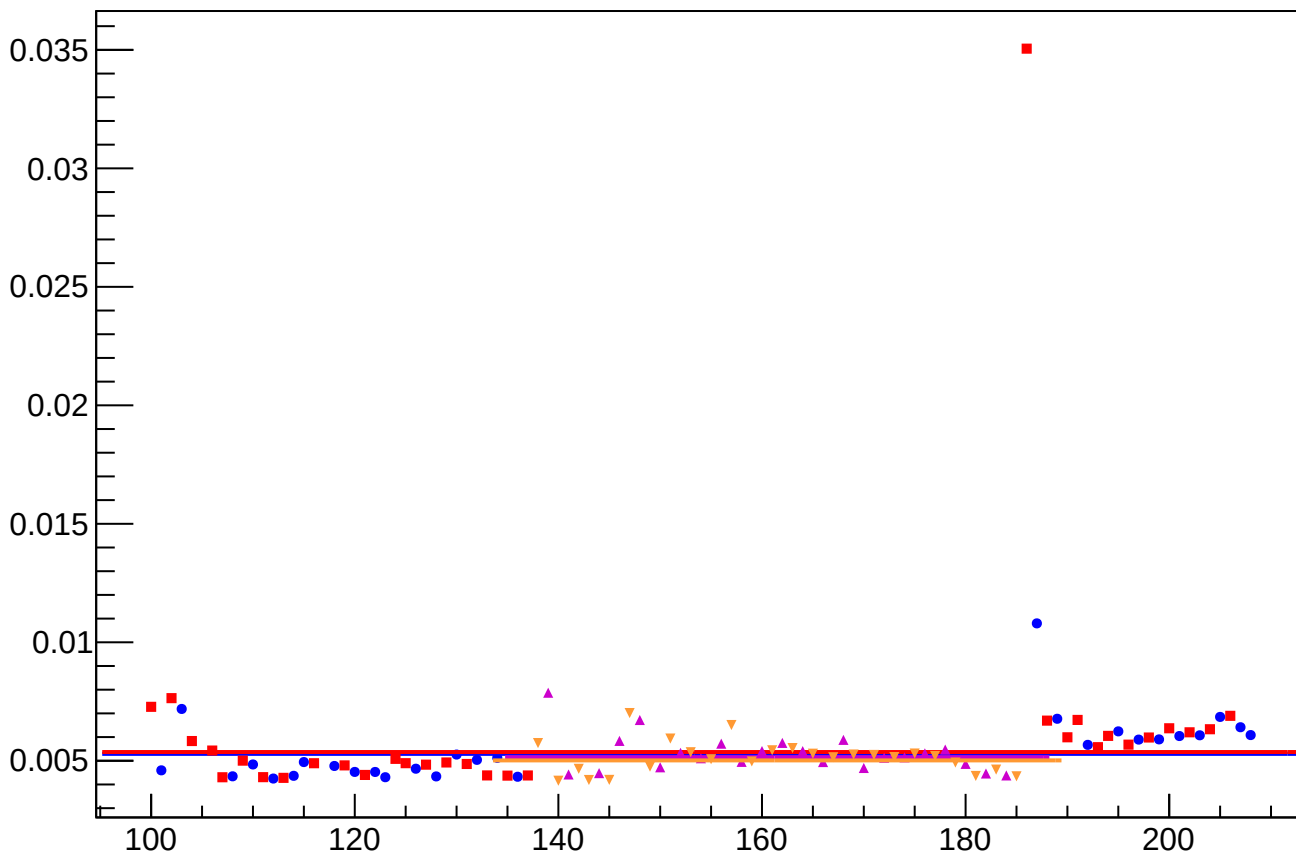
Right: -0.244+/-0.000 χ^2/NDF : 36078593191.5/58

In: -0.237+/-0.000 χ^2/NDF : 22729250626.9/50

Out: -0.230+/-0.000 χ^2/NDF : 13523763945.1/55

All: -0.233+/-0.000 χ^2/NDF : 36284645295.2/102

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 767290.7/27

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1256489.5/30

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

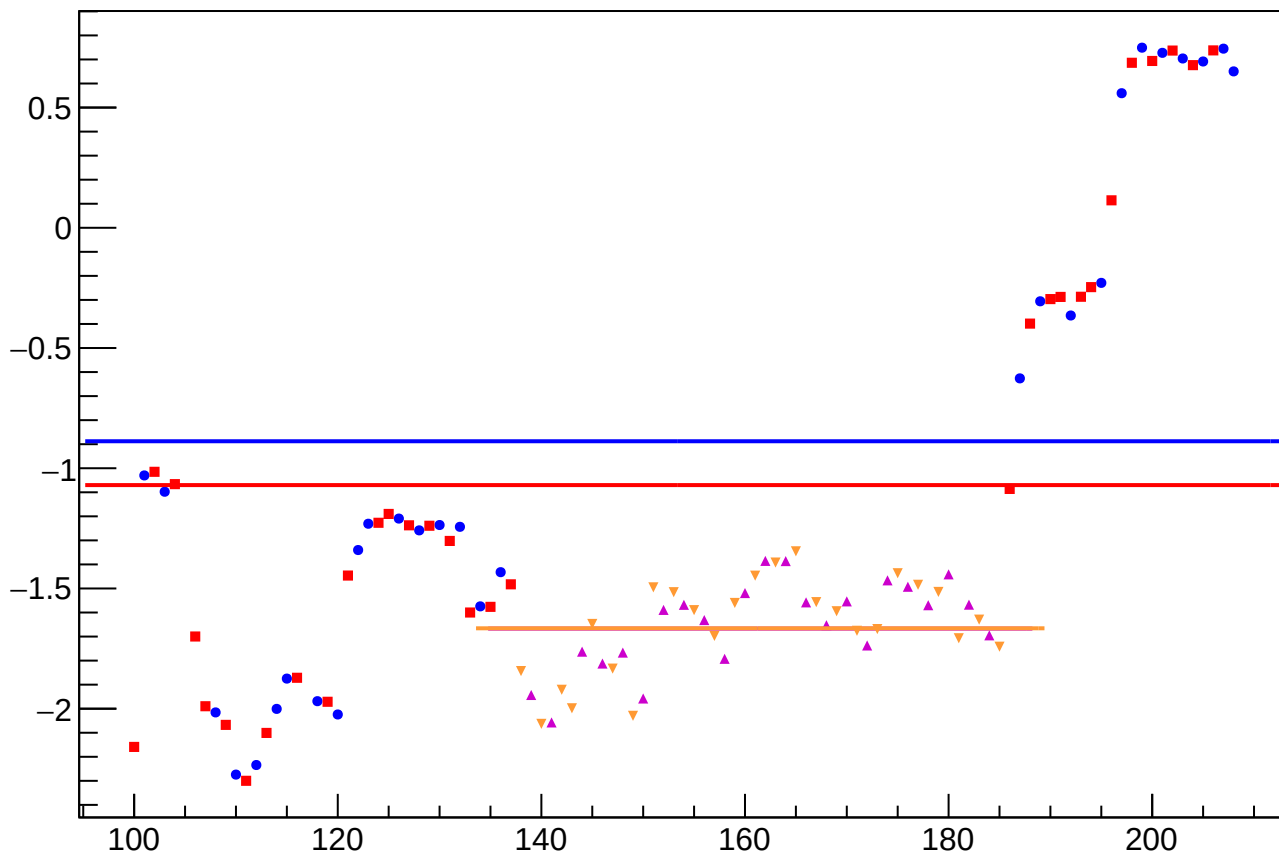
Right: 0.005+/-0.000 χ^2/NDF : 2026575.8/58

In: 0.005+/-0.000 χ^2/NDF : 1282071.3/50

Out: 0.005+/-0.000 χ^2/NDF : 1858499.5/55

All: 0.005+/-0.000 χ^2/NDF : 3143517.5/106

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.888+/-0.000

χ²/NDF: 193970996139.8/27

Left: -1.666+/-0.000

χ²/NDF: 32983827631.4/47

Left Out: -1.666+/-0.000

χ²/NDF: 18368038680.8/24

Right: -0.985+/-0.000

χ²/NDF: 399262665093.9/58

Right Out: -1.070+/-0.000

χ²/NDF: 201641560046.2/30

In: -1.408+/-0.000

χ²/NDF: 291963820767.8/50

Out: -1.458+/-0.000

χ²/NDF: 274527590308.2/55

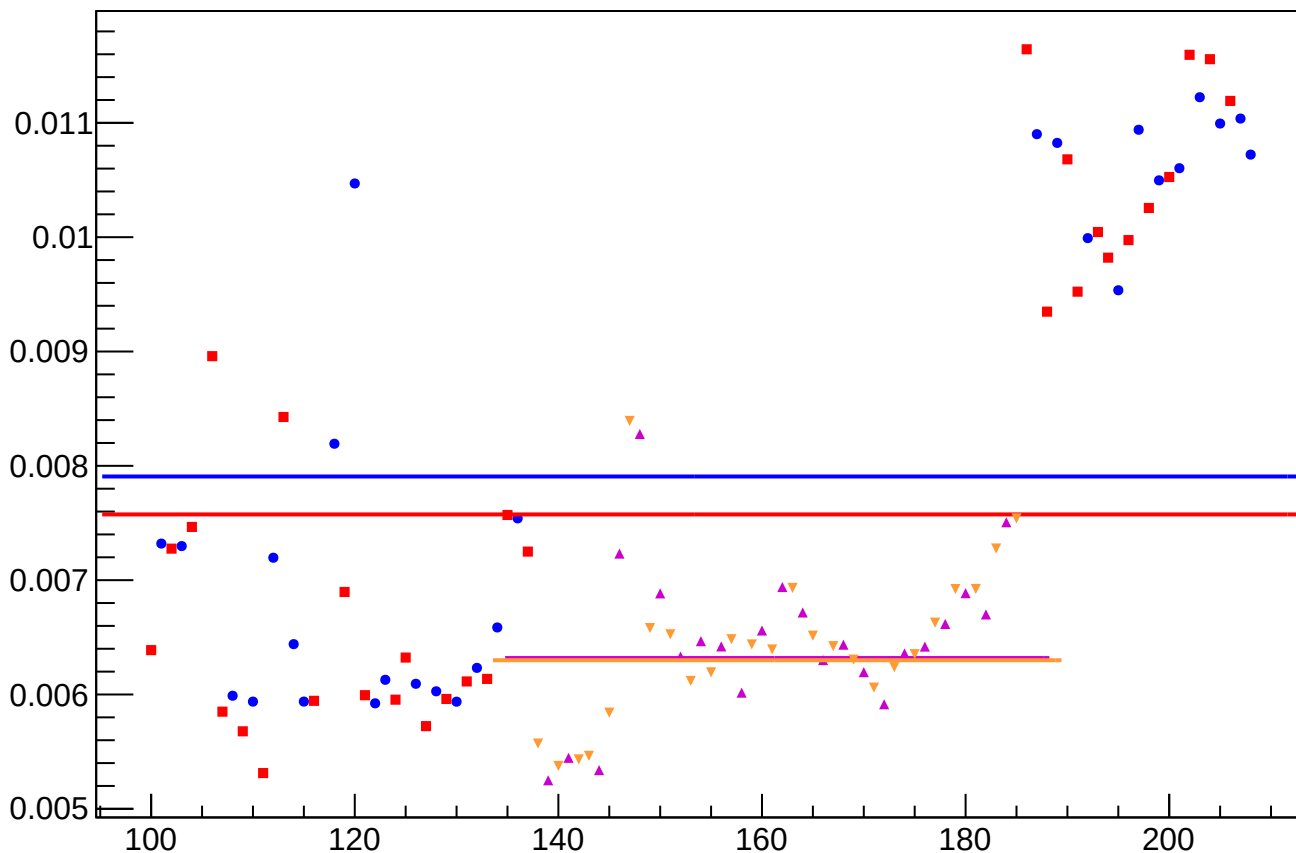
Left In: -1.667+/-0.000

χ²/NDF: 14615453869.3/22

All: -1.434+/-0.000

χ²/NDF: 567305049390.7

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1652216.5/27

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1913384.5/30

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

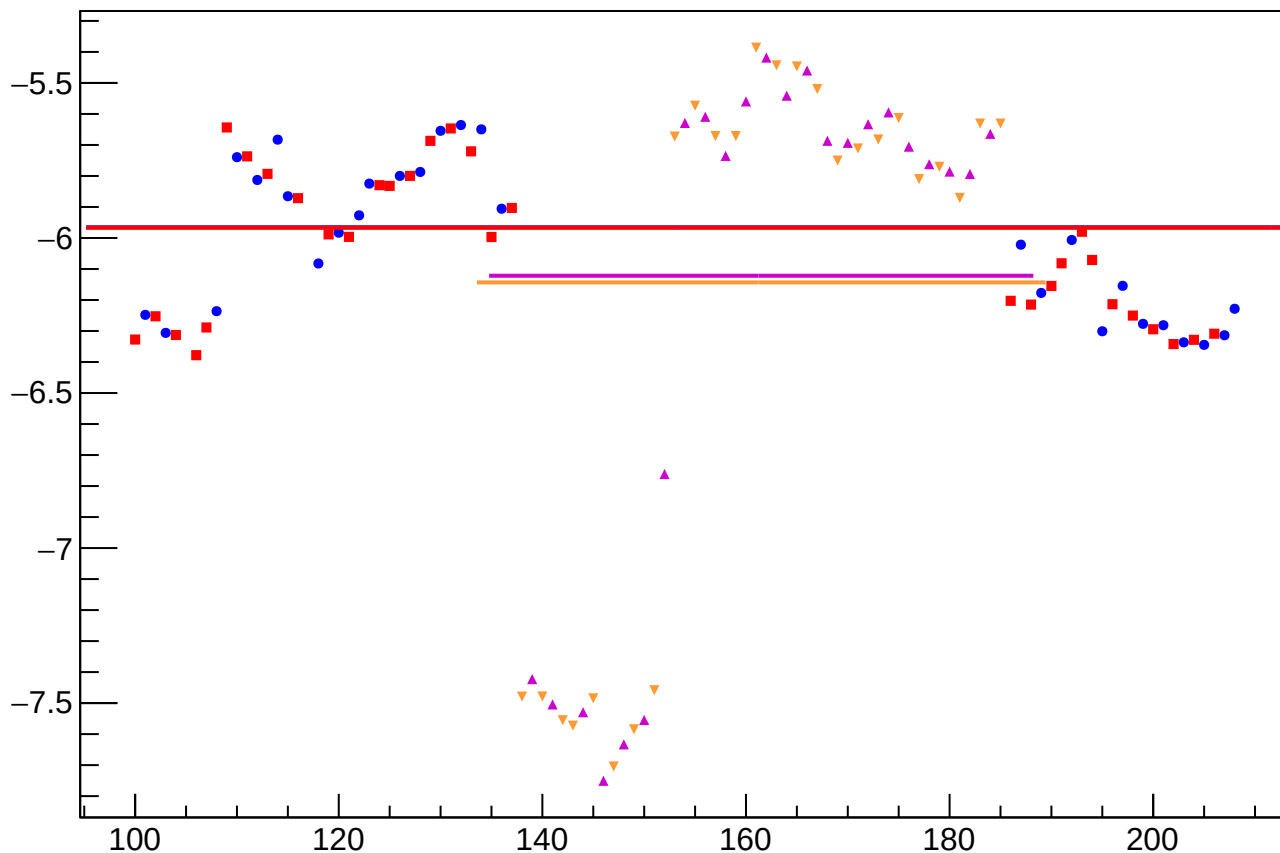
Right: 0.008+/-0.000 χ^2/NDF : 3589790.7/58

In: 0.007+/-0.000 χ^2/NDF :2679326.3/50

Out: 0.007+/-0.000 χ^2/NDF :2726309.2/55

All: 0.007+/-0.000 χ^2/NDF : 5412451.9/106

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.965+/-0.000 χ^2/NDF : 15236571892.6/27

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.967+/-0.000 χ^2/NDF : 16350328651.2/30

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

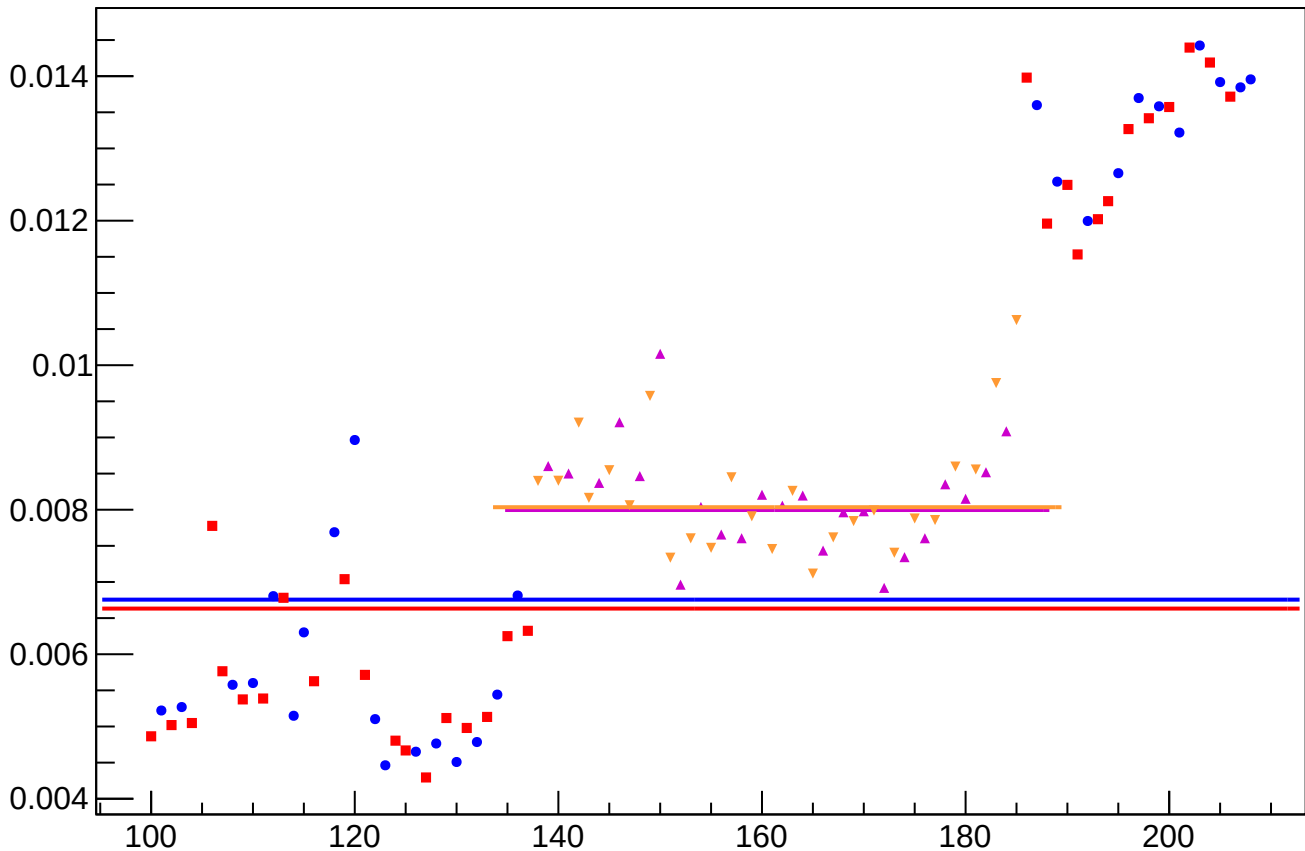
Right: -5.966+/-0.000 χ^2/NDF : 31587193012.5/58

In: -6.045+/-0.000 χ^2/NDF : 178150436693.3/50

Out: -6.053+/-0.000 χ^2/NDF : 206155668894.5/55

All: -6.049+/-0.000 χ^2/NDF : 384325983135.0

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4761899.8/27

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4729155.4/30

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

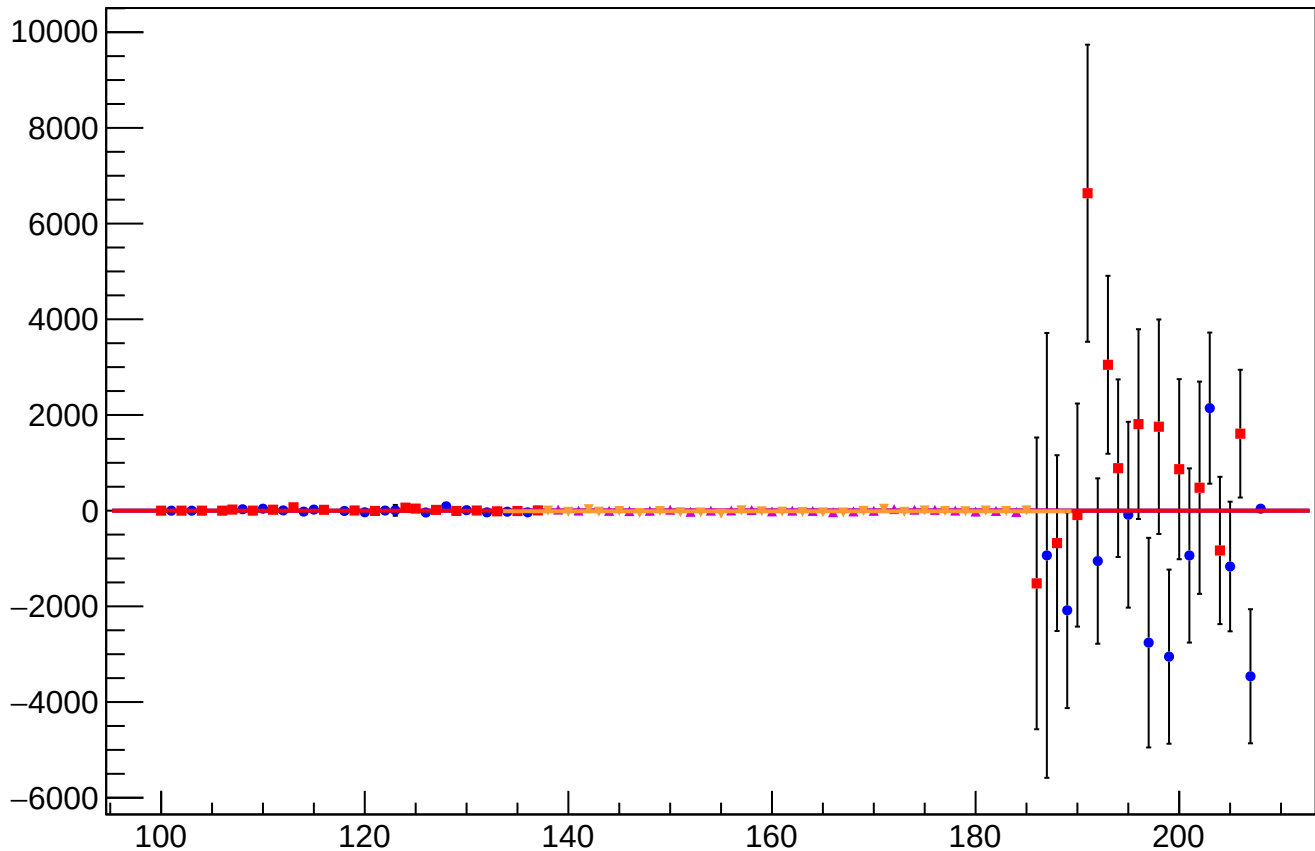
Right: 0.007+/-0.000 χ^2/NDF : 9494968.9/58

In: 0.007+/-0.000 χ^2/NDF :5360703.9/50

Out: 0.007+/-0.000 χ^2/NDF :5452523.6/55

All: 0.007+/-0.000 χ^2/NDF : 10815300.4/106

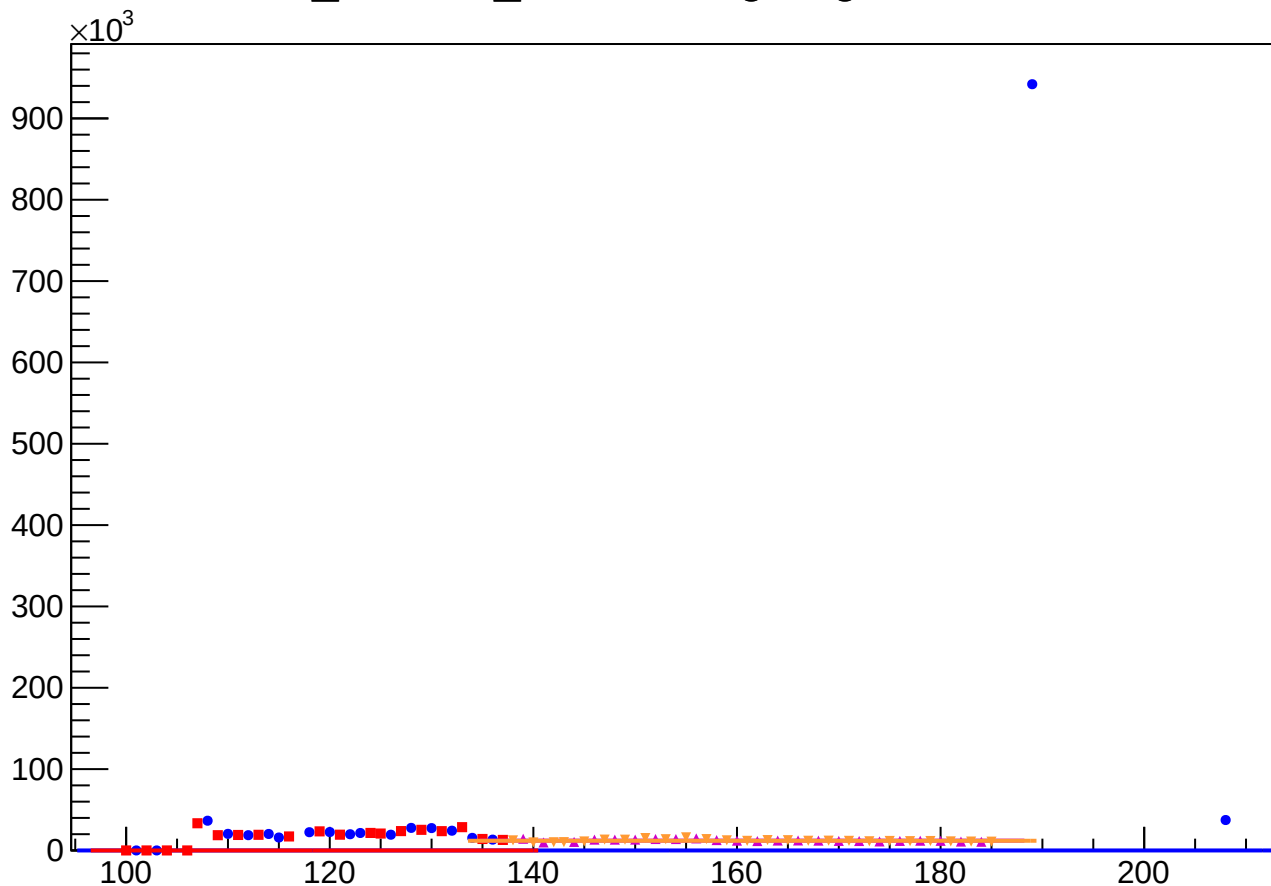
diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 31.8/27$
Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$
Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 26.3/30$
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 $\chi^2/\text{NDF}: 58.5/58$
In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 60.5/50$
Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 107.9/55$
All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 168.9/106$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.645+/-0.012 χ^2 /NDF: 12143051.8/18

Left Out: 11909.835+/-1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311+/-0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321+/-2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125+/-1.425 χ^2 /NDF: 850831.6/47

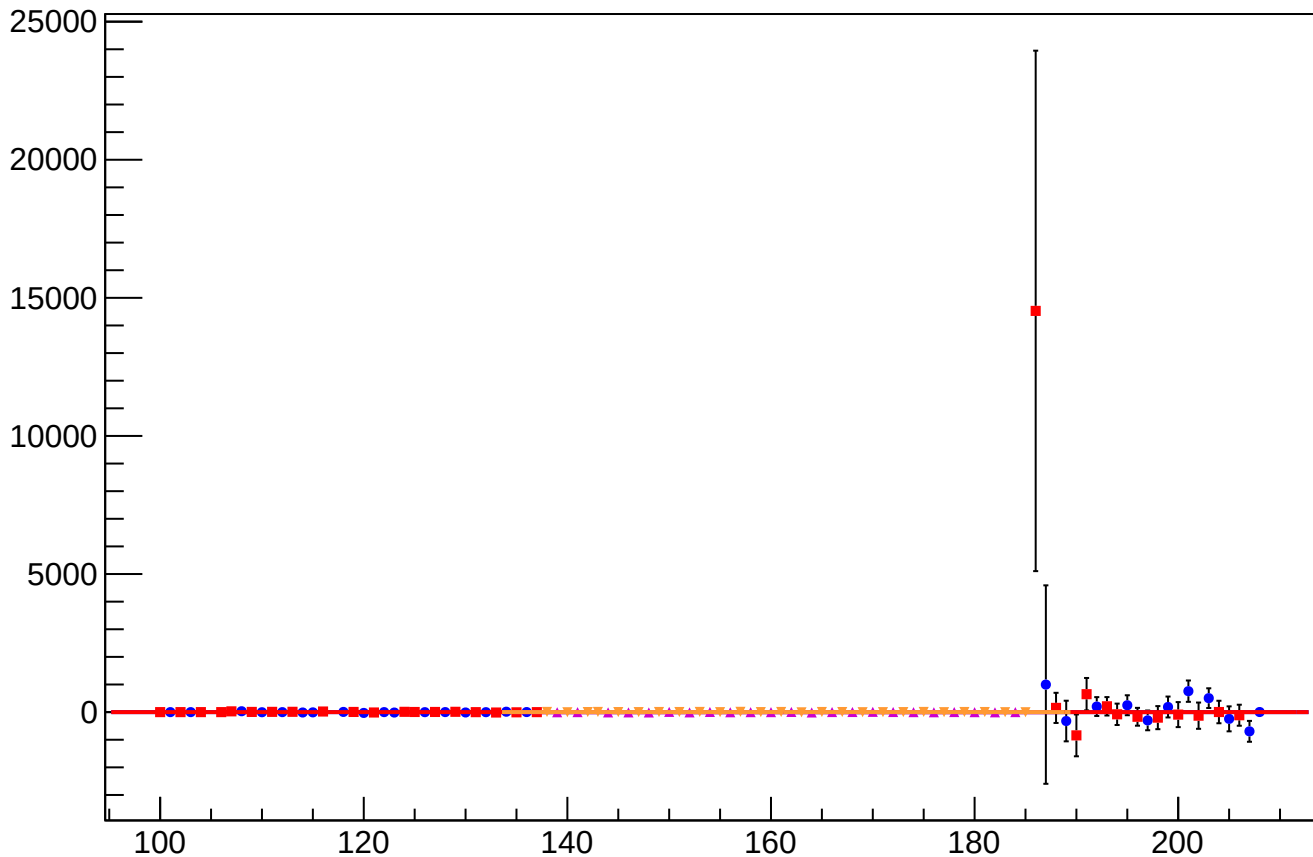
Right: 18.465+/-0.008 χ^2 /NDF: 23199506.3/37

In: 19.074+/-0.012 χ^2 /NDF: 46893517.2/41

Out: 18.704+/-0.011 χ^2 /NDF: 47698495.9/43

All: 18.875+/-0.008 χ^2 /NDF: 94592503.0/85

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 26.5/27

Left Out: 1.675+/-1.021 χ^2/NDF : 17.9/24

Right Out: -0.014+/-0.009 χ^2/NDF : 24.7/30

Left In: -0.843+/-1.043 χ^2/NDF : 35.7/22

Left: 0.443+/-0.730 χ^2/NDF : 56.5/47

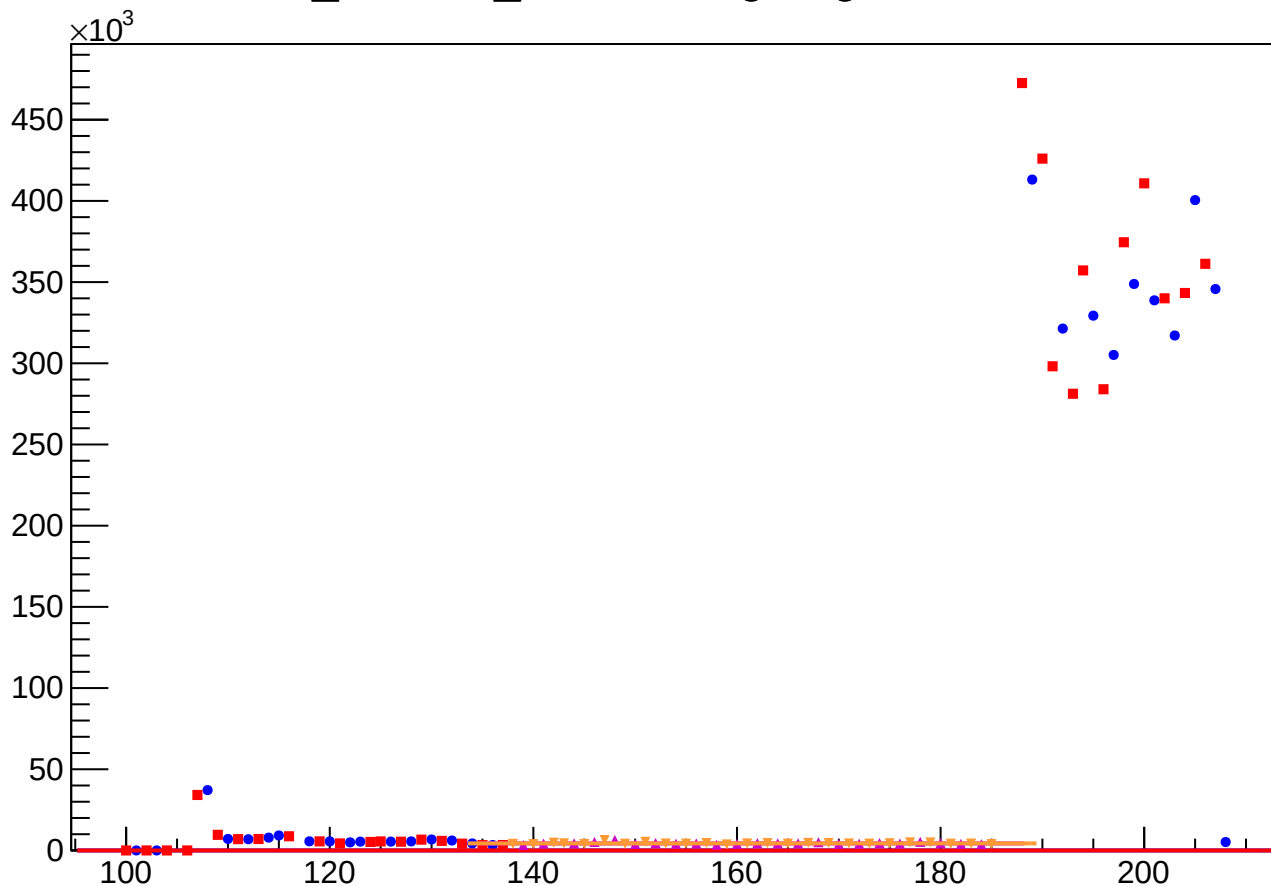
Right: -0.007+/-0.006 χ^2/NDF : 52.6/58

In: 0.001+/-0.009 χ^2/NDF : 62.8/50

Out: -0.014+/-0.009 χ^2/NDF : 45.3/55

All: -0.007+/-0.006 χ^2/NDF : 109.5/106

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.949 ± 0.007 χ^2/NDF : 25641312.9/26

Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24

Right Out: 9.855 ± 0.006 χ^2/NDF : 25899222.3/29

Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47

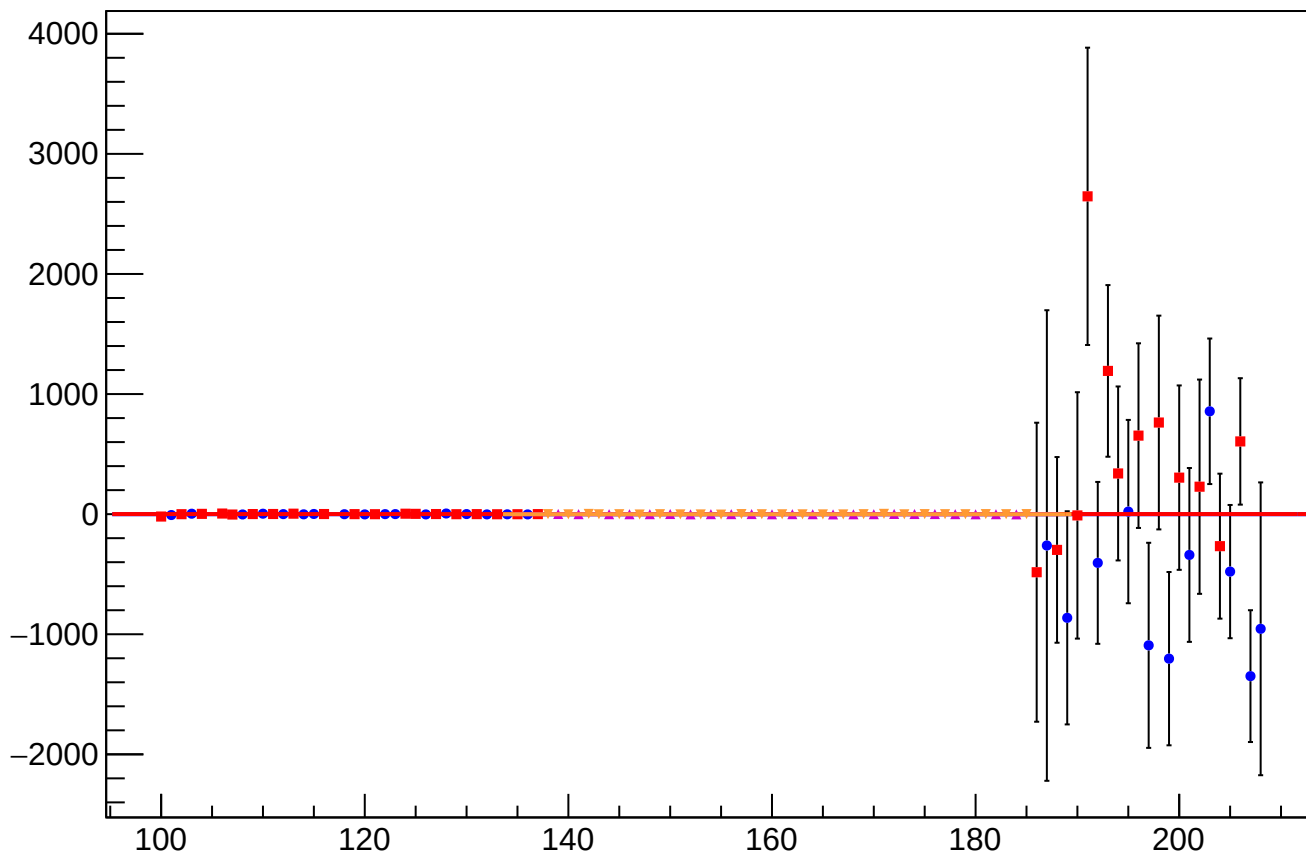
Right: 9.899 ± 0.004 χ^2/NDF : 51540644.3/56

In: 10.284 ± 0.007 χ^2/NDF : 60237169.7/49

Out: 10.167 ± 0.006 χ^2/NDF : 62428929.2/54

All: 10.222 ± 0.004 χ^2/NDF : 122666269.6/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.704 ± 0.485 χ^2/NDF : 37.8/27

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 ± 0.502 χ^2/NDF : 22.8/30

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

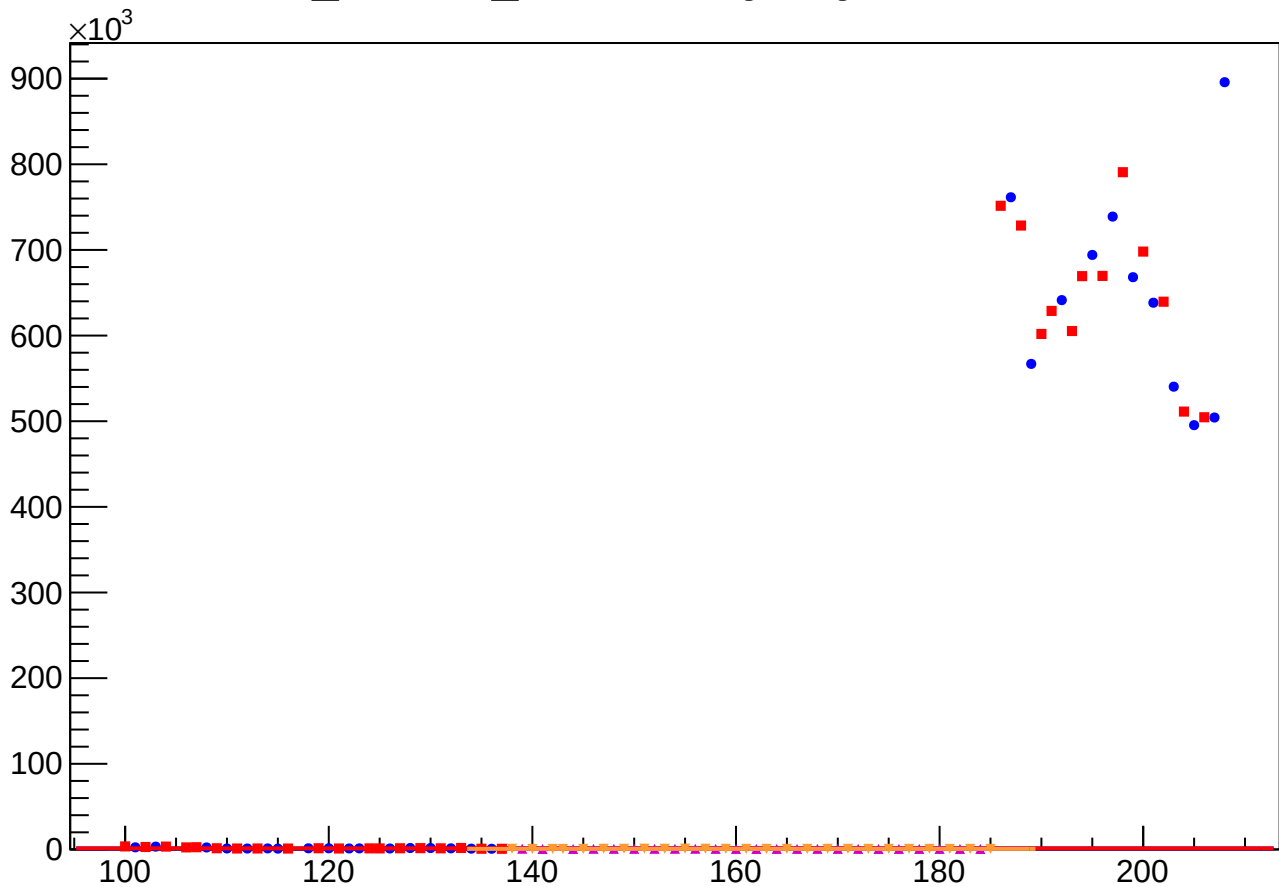
Right: 0.004 ± 0.349 χ^2/NDF : 65.1/58

In: -0.059 ± 0.161 χ^2/NDF : 69.1/50

Out: -0.626 ± 0.156 χ^2/NDF : 89.7/55

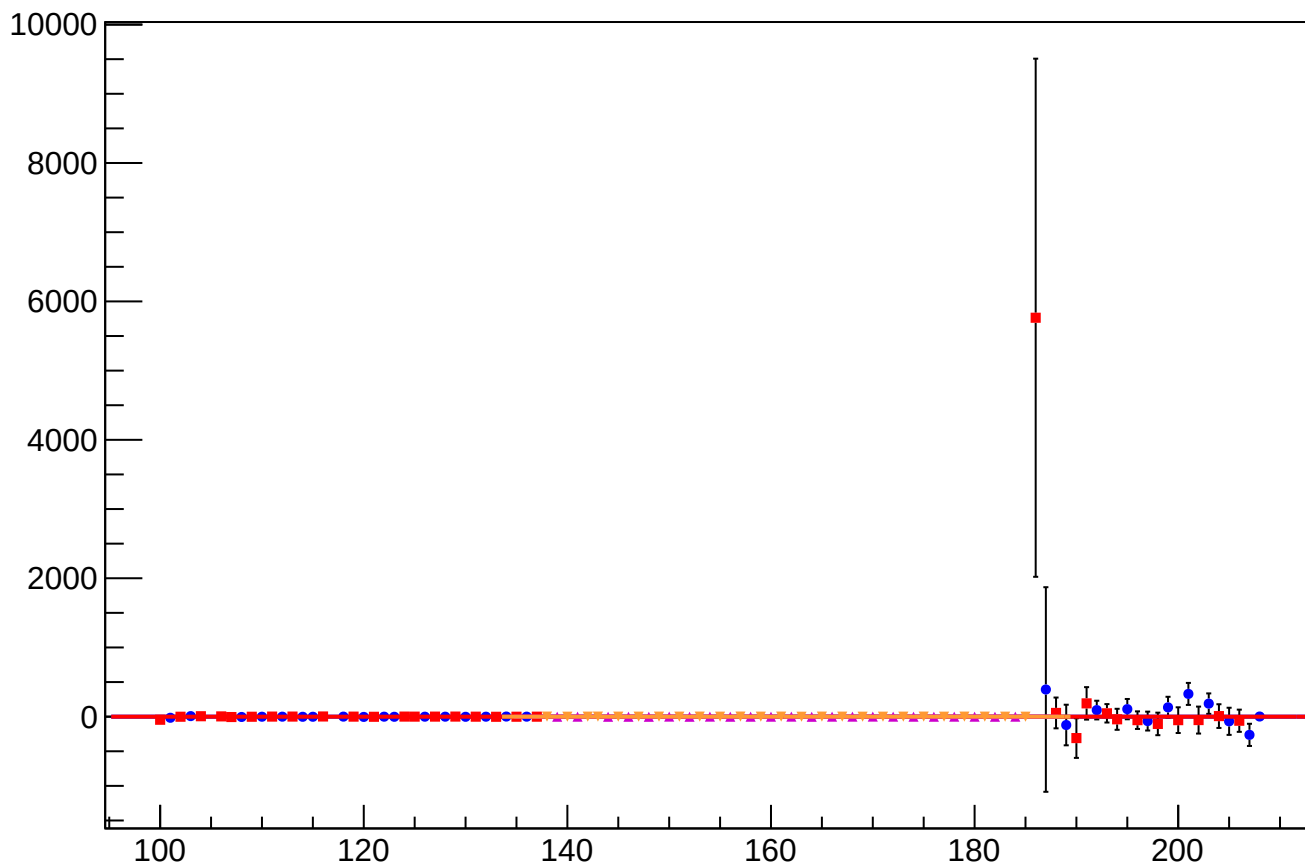
All: -0.350 ± 0.112 χ^2/NDF : 165.1/106

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.099 $\pm$ 0.343 χ^2 /NDF: 16666847.8/27
 Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47
 Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF: 392521.4/24
 Right: 1208.274 $\pm$ 0.247 χ^2 /NDF: 34091497.7/58
 Right Out: 1252.399 $\pm$ 0.355 χ^2 /NDF: 17394789.0/30
 In: 757.361 $\pm$ 0.114 χ^2 /NDF: 18608013.1/50
 Left In: 706.950 $\pm$ 0.120 χ^2 /NDF: 338177.1/22
 Out: 754.150 $\pm$ 0.110 χ^2 /NDF: 19967704.7/55
 All: 755.711 $\pm$ 0.079 χ^2 /NDF: 38576128.8/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.052 ± 0.270 χ^2/NDF : 32.1/27

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 26.0/30

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

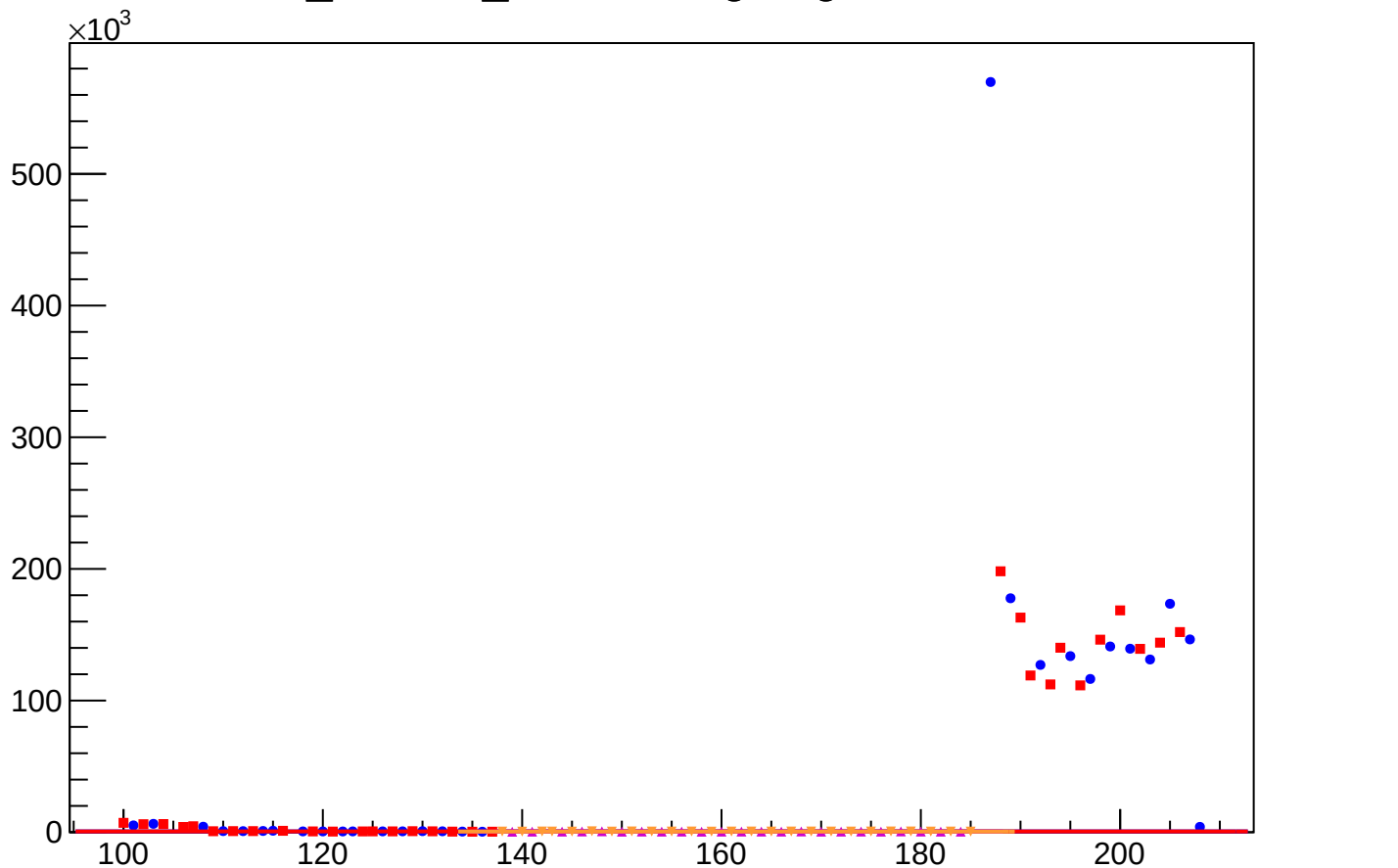
Right: -0.151 ± 0.189 χ^2/NDF : 58.4/58

In: -0.104 ± 0.114 χ^2/NDF : 67.1/50

Out: 0.151 ± 0.111 χ^2/NDF : 46.3/55

All: 0.027 ± 0.080 χ^2/NDF : 116.0/106

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 620.998 ± 0.191 $\chi^2/\text{NDF}: 17829935.4/27$

Left Out: 522.416 ± 0.087 $\chi^2/\text{NDF}: 331573.1/24$

Right Out: 603.374 ± 0.187 $\chi^2/\text{NDF}: 18335977.4/29$

Left In: 519.909 ± 0.089 $\chi^2/\text{NDF}: 444746.3/22$

Left: 521.193 ± 0.062 $\chi^2/\text{NDF}: 776728.3/47$

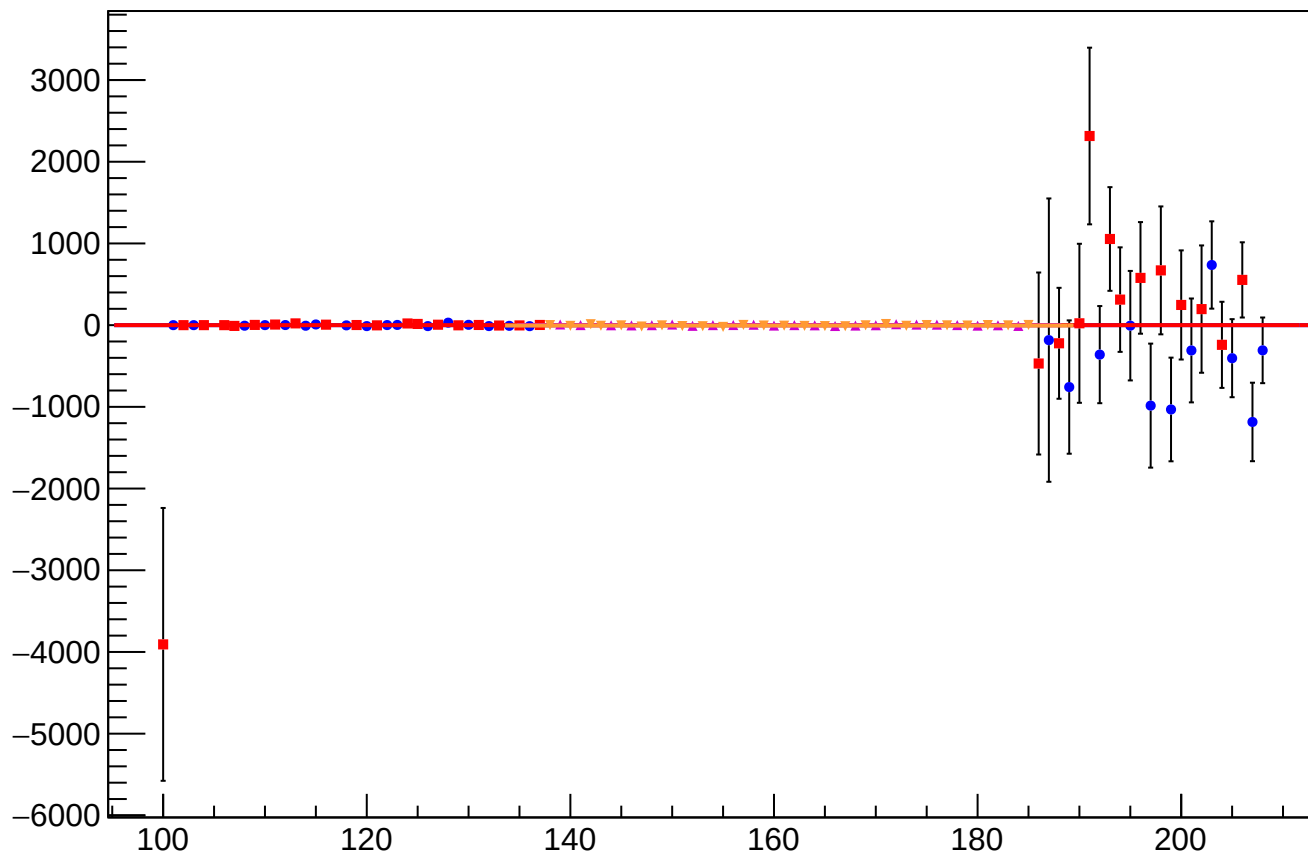
Right: 612.009 ± 0.134 $\chi^2/\text{NDF}: 36170252.3/57$

In: 537.844 ± 0.080 $\chi^2/\text{NDF}: 18504925.0/50$

Out: 536.680 ± 0.079 $\chi^2/\text{NDF}: 18821503.0/54$

All: 537.249 ± 0.056 $\chi^2/\text{NDF}: 37326535.1/10$

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 30.7/27

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 28.0/30

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

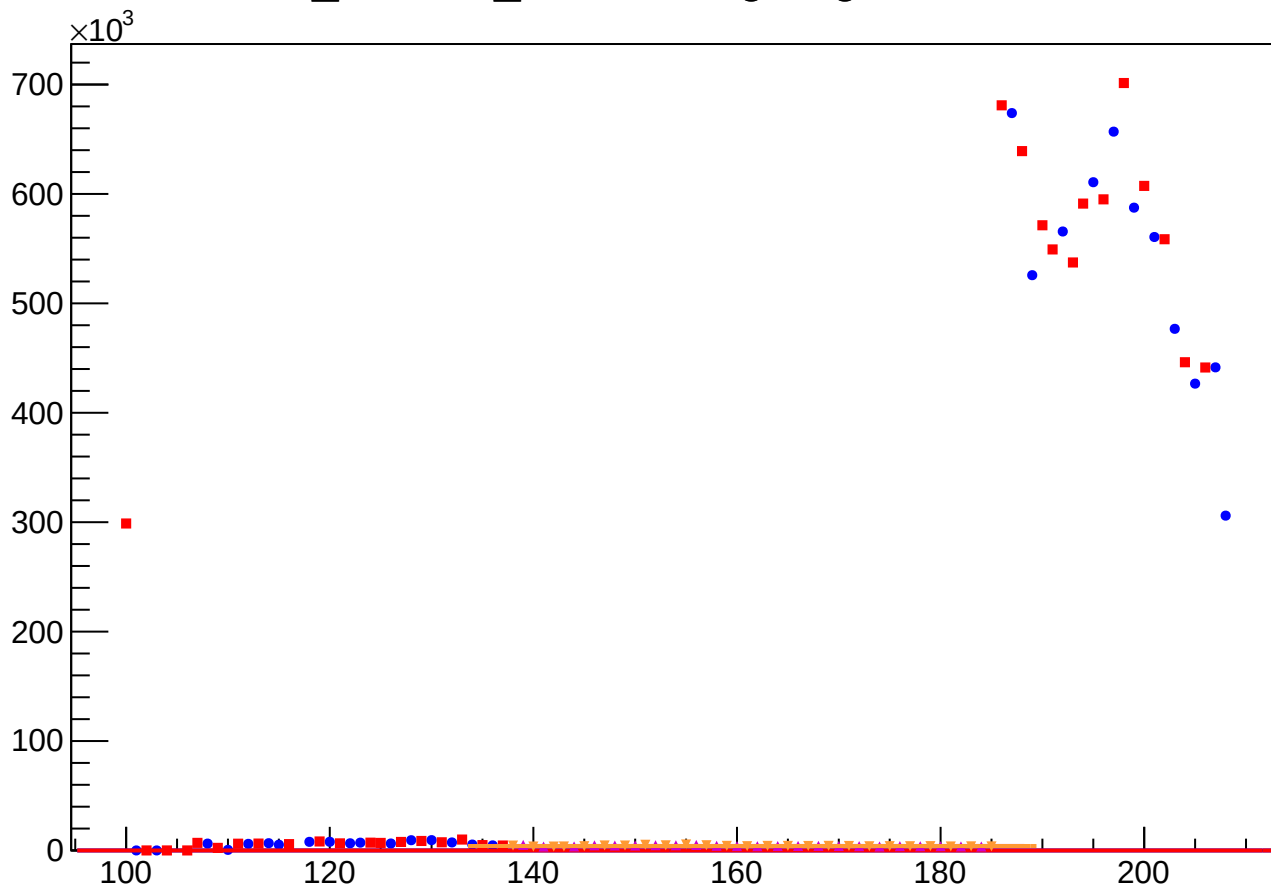
Right: 0.004+/-0.014 χ^2/NDF : 61.5/58

In: -0.022+/-0.021 χ^2/NDF : 60.0/50

Out: 0.025+/-0.020 χ^2/NDF : 108.4/55

All: 0.003+/-0.014 χ^2/NDF : 171.0/106

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.342+/-0.015 χ^2/NDF : 25723353.4/27

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.273+/-0.014 χ^2/NDF : 26683658.8/30

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

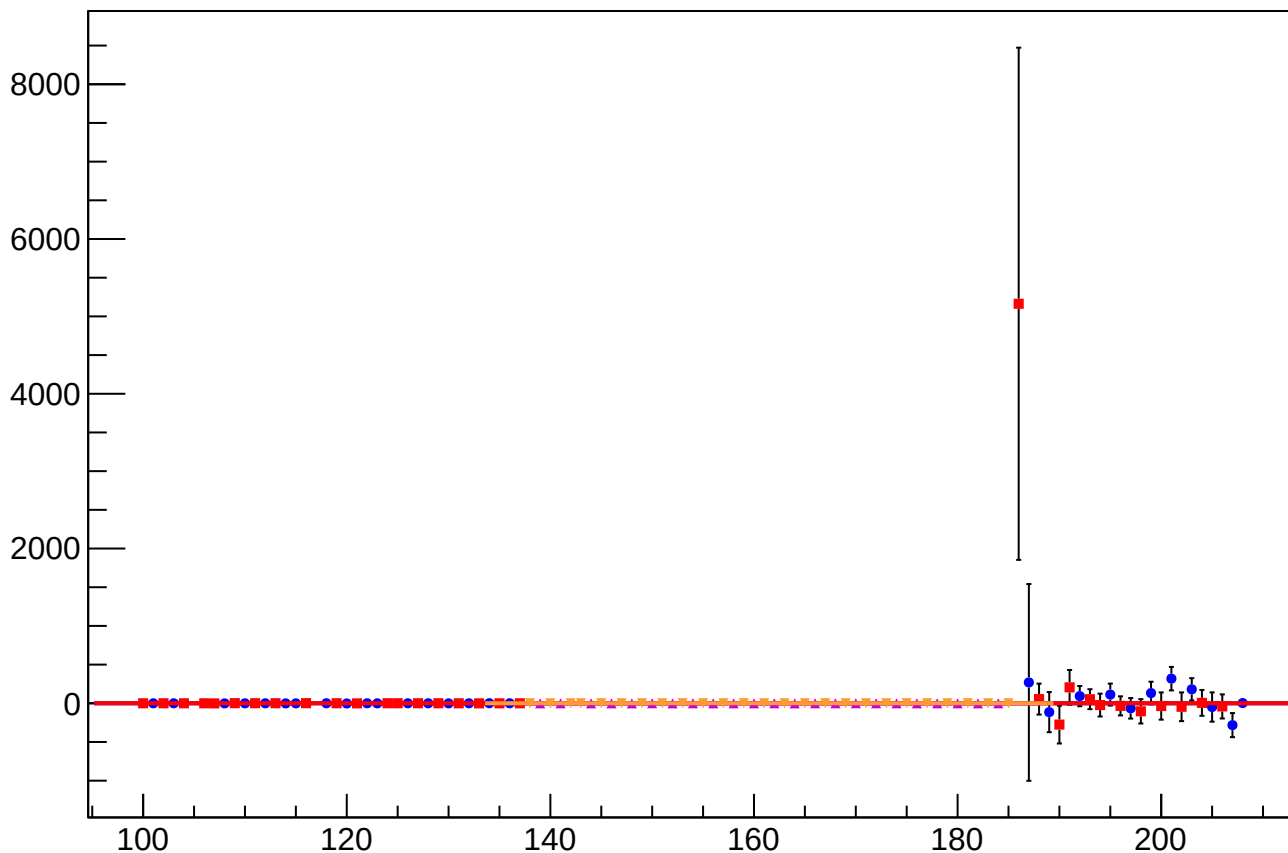
Right: 17.306+/-0.010 χ^2/NDF : 52407023.9/58

In: 19.148+/-0.015 χ^2/NDF : 60292491.2/50

Out: 19.010+/-0.014 χ^2/NDF : 63136556.0/55

All: 19.075+/-0.010 χ^2/NDF : 123429093.6/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.002 χ^2/NDF : 27.3/27

Left Out: 0.151+/-0.076 χ^2/NDF : 16.8/24

Right Out: -0.001+/-0.002 χ^2/NDF : 23.6/30

Left In: -0.075+/-0.078 χ^2/NDF : 34.8/22

Left: 0.041+/-0.055 χ^2/NDF : 55.8/47

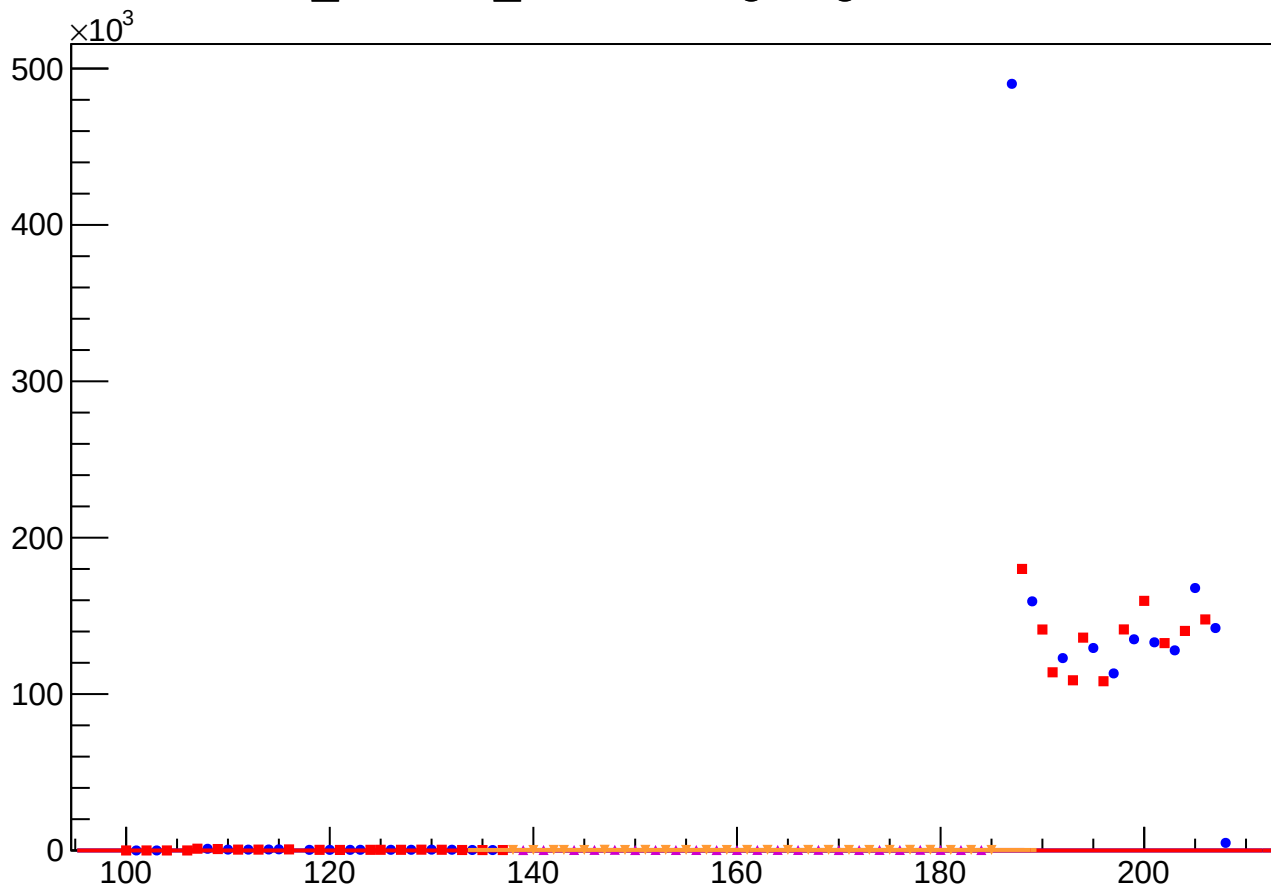
Right: -0.000+/-0.001 χ^2/NDF : 51.0/58

In: 0.000+/-0.002 χ^2/NDF : 63.0/50

Out: -0.001+/-0.002 χ^2/NDF : 44.3/55

All: -0.000+/-0.001 χ^2/NDF : 107.4/106

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 26025254.3/27

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 25662898.9/29

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

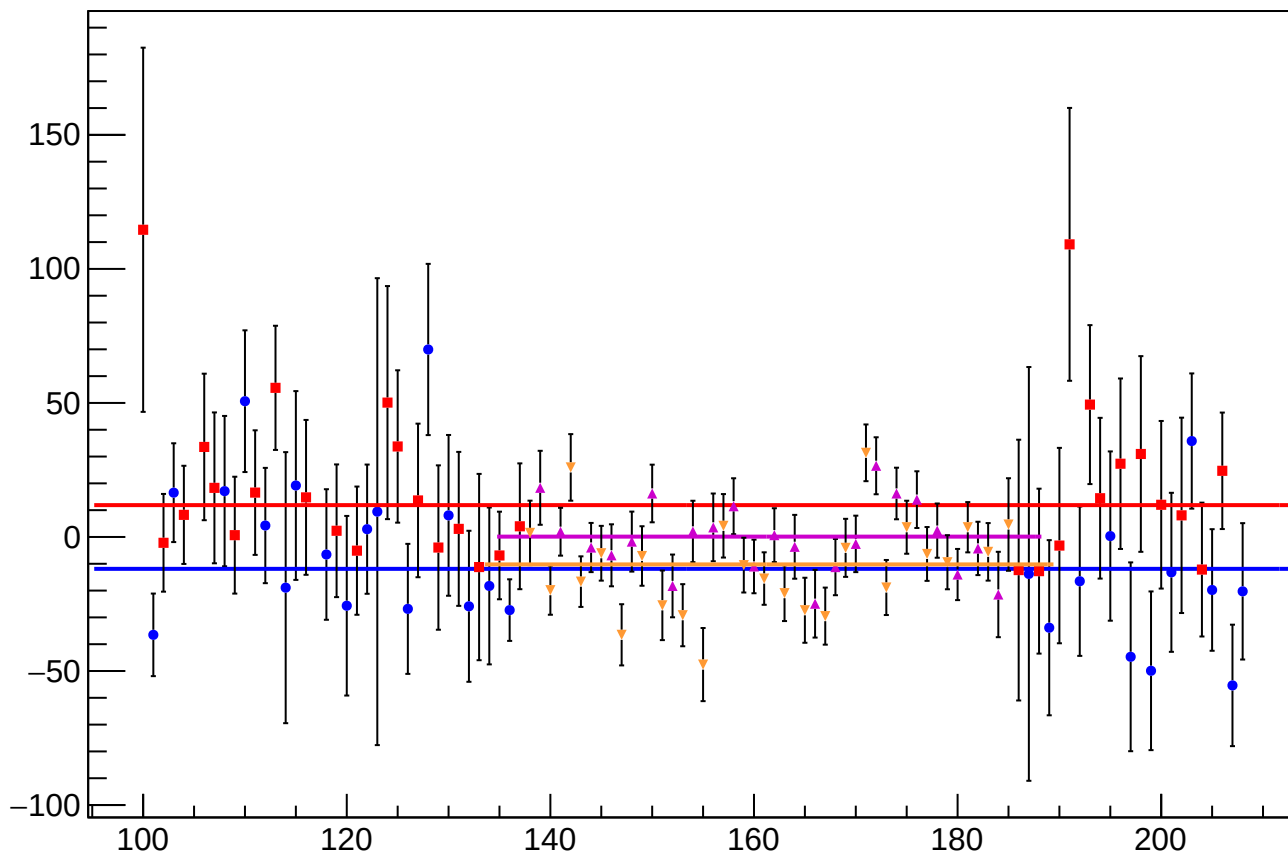
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 51688372.6/57

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 60428572.9/50

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 61970706.9/54

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 122399411.8/105

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -11.892 ± 4.717 χ^2/NDF : 33.7/27

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 11.881 ± 4.824 χ^2/NDF : 19.9/30

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

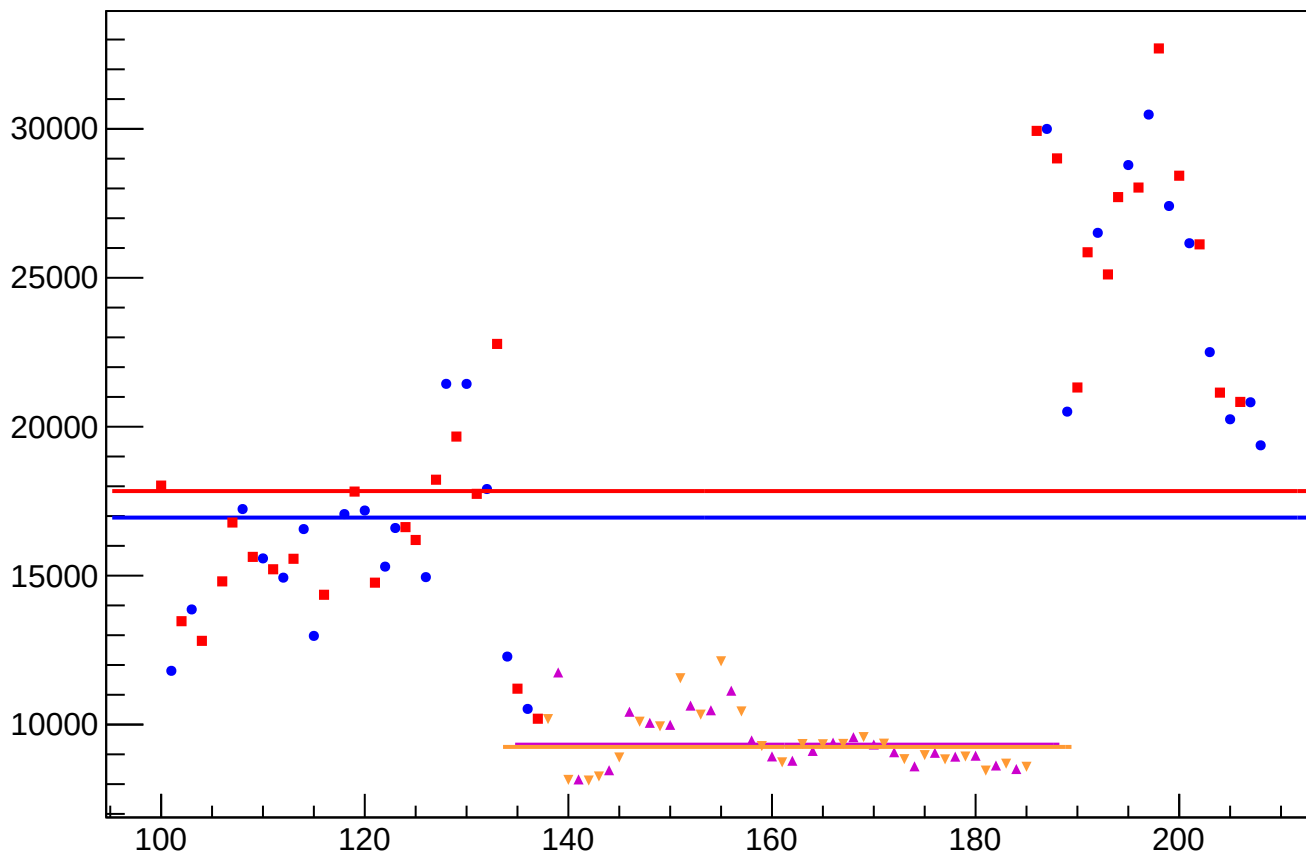
Right: -0.273 ± 3.373 χ^2/NDF : 66.0/58

In: -2.086 ± 2.025 χ^2/NDF : 68.9/50

Out: -6.523 ± 1.976 χ^2/NDF : 95.3/55

All: -4.358 ± 1.414 χ^2/NDF : 166.6/106

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16949.110+/-3.335 χ^2/NDF : 2665464.9/27

Left Out: 9249.358+/-1.532 χ^2/NDF : 332003.4/24

Right Out: 17839.216+/-3.411 χ^2/NDF : 2753747.7/30

Left In: 9325.112+/-1.585 χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

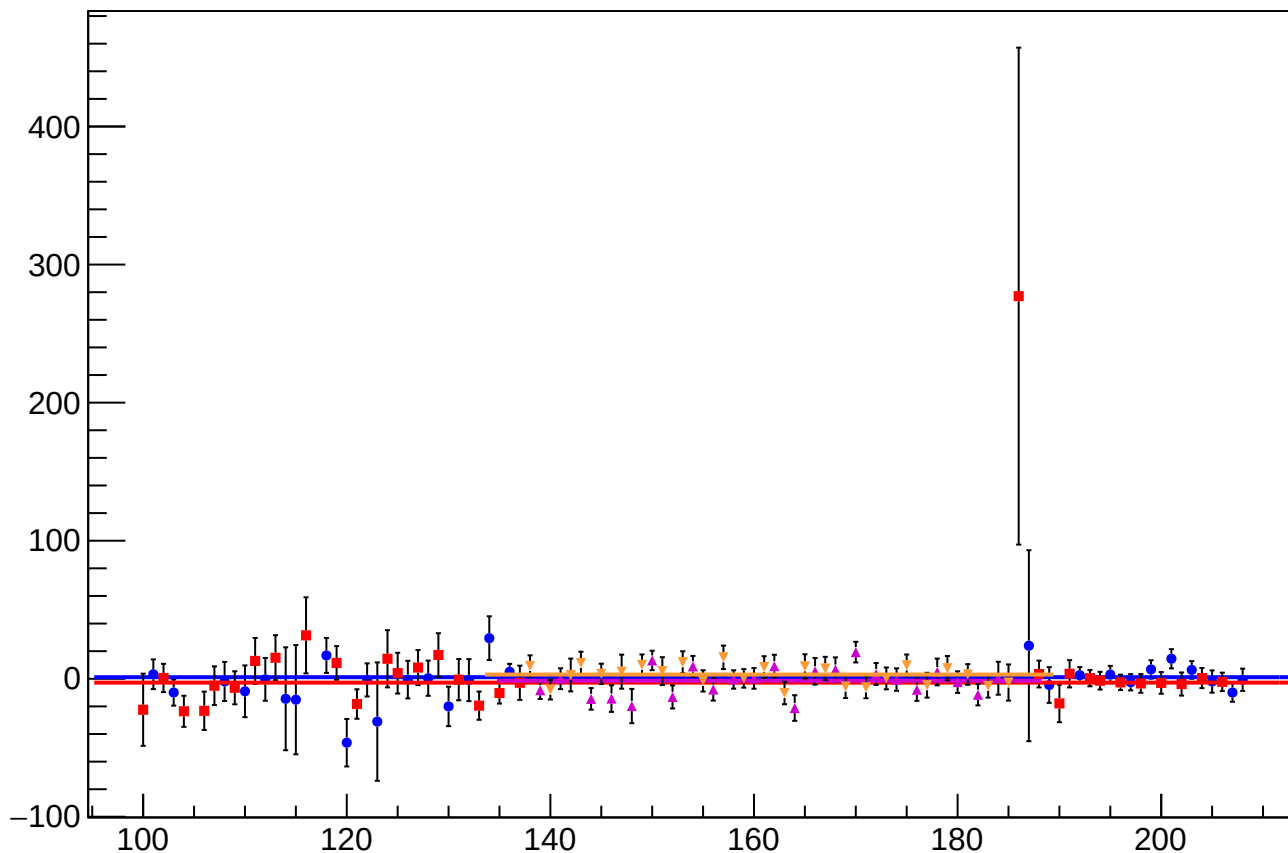
Right: 17384.168+/-2.385 χ^2/NDF : 5454020.3/58

In: 10730.252+/-1.432 χ^2/NDF : 7208071.2/50

Out: 10691.170+/-1.398 χ^2/NDF : 8362299.9/55

All: 10710.237+/-1.000 χ^2/NDF : 15570752.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.145 $\pm$ 1.781 χ^2/NDF : 26.6/27

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -2.778 $\pm$ 1.767 χ^2/NDF : 25.5/30

Left In: -1.394 $\pm$ 1.693 χ^2/NDF : 35.4/22

Left: 0.879 $\pm$ 1.185 χ^2/NDF : 57.2/47

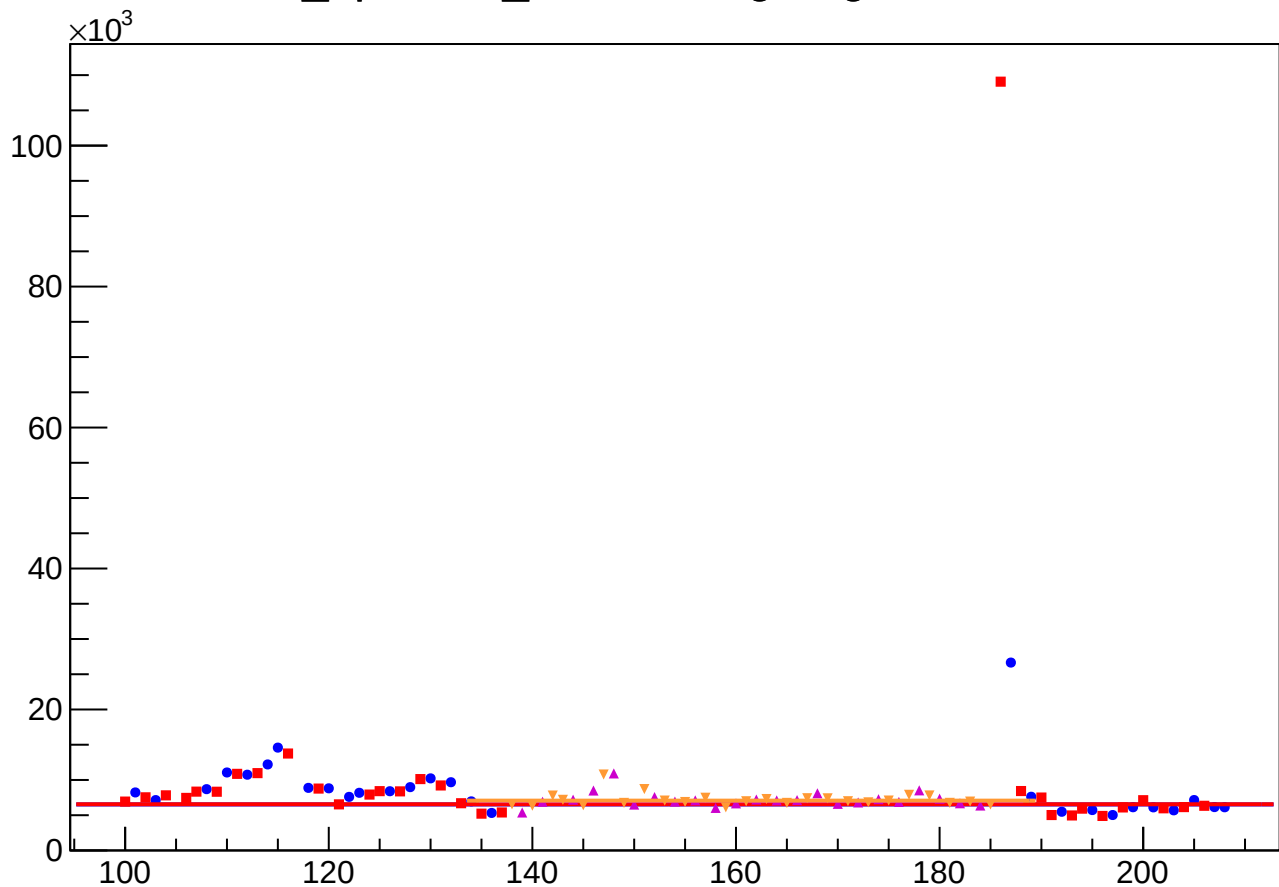
Right: -0.832 $\pm$ 1.254 χ^2/NDF : 54.5/58

In: -0.189 $\pm$ 1.227 χ^2/NDF : 63.0/50

Out: 0.326 $\pm$ 1.209 χ^2/NDF : 49.6/55

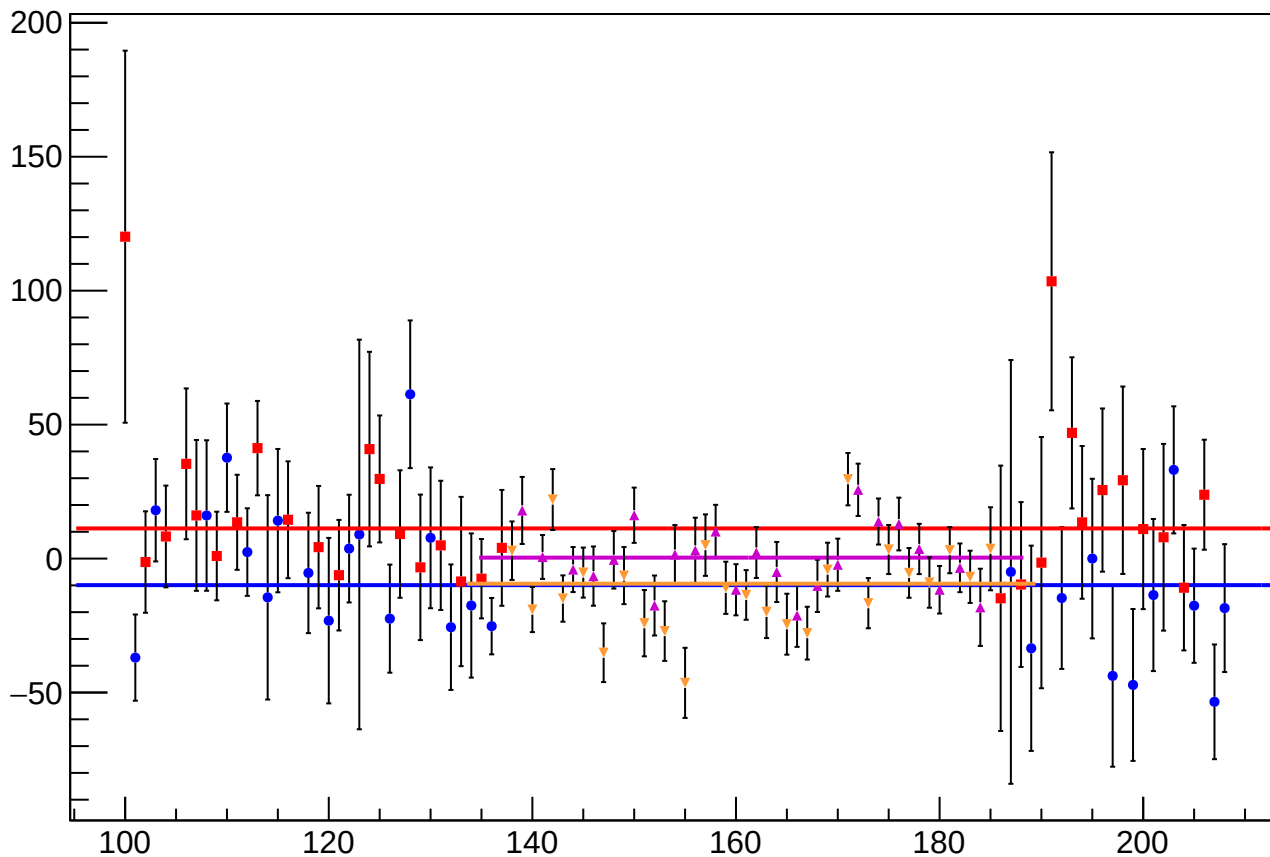
All: 0.072 $\pm$ 0.861 χ^2/NDF : 112.6/106

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6525.175+/-1.259	χ^2/NDF : 1525085.8/27	Left: 7034.358+/-0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826+/-1.173	χ^2/NDF : 387449.8/24	Right: 6539.870+/-0.887	χ^2/NDF : 3626992.1/58
Right Out: 6554.334+/-1.249	χ^2/NDF : 2101636.0/30	In: 6774.824+/-0.868	χ^2/NDF : 2149964.4/50
Left In: 7000.532+/-1.197	χ^2/NDF : 550029.3/22	Out: 6826.698+/-0.855	χ^2/NDF : 2578530.1/55
		All: 6801.138+/-0.609	χ^2/NDF : 4730307.7/10

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.915 ± 4.305 $\chi^2/\text{NDF}: 34.6/27$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 11.258 ± 4.357 $\chi^2/\text{NDF}: 19.4/30$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

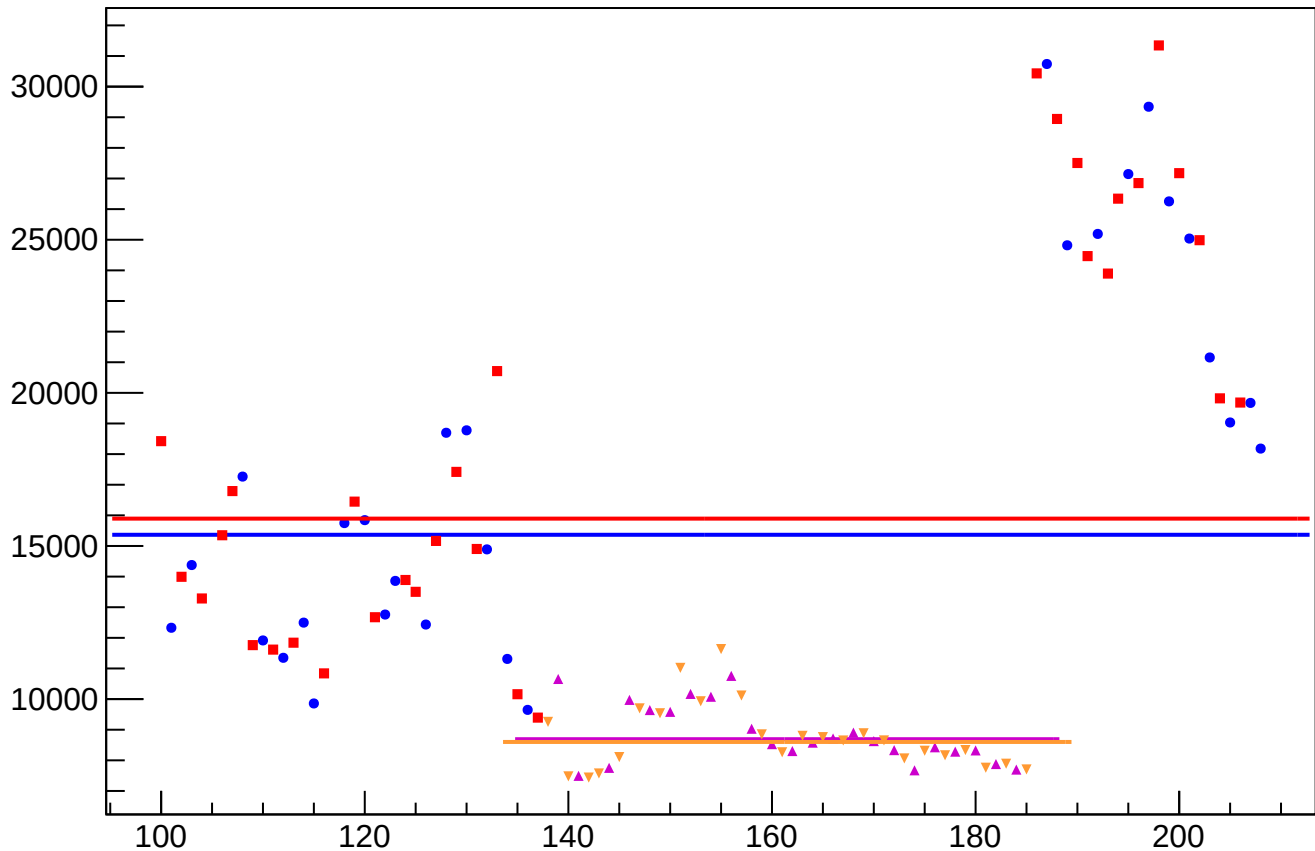
Right: 0.544 ± 3.063 $\chi^2/\text{NDF}: 66.0/58$

In: -1.608 ± 1.882 $\chi^2/\text{NDF}: 68.9/50$

Out: -5.733 ± 1.831 $\chi^2/\text{NDF}: 96.3/55$

All: -3.727 ± 1.312 $\chi^2/\text{NDF}: 167.6/106$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15365.536 ± 3.044 $\chi^2/\text{NDF}: 3077688.9/27$

Left Out: 8600.457 ± 1.427 $\chi^2/\text{NDF}: 438229.4/24$

Right Out: 15893.414 ± 3.081 $\chi^2/\text{NDF}: 3474648.8/30$

Left In: 8690.209 ± 1.479 $\chi^2/\text{NDF}: 370834.1/22$

Left: 8643.707 ± 1.027 $\chi^2/\text{NDF}: 810970.4/47$

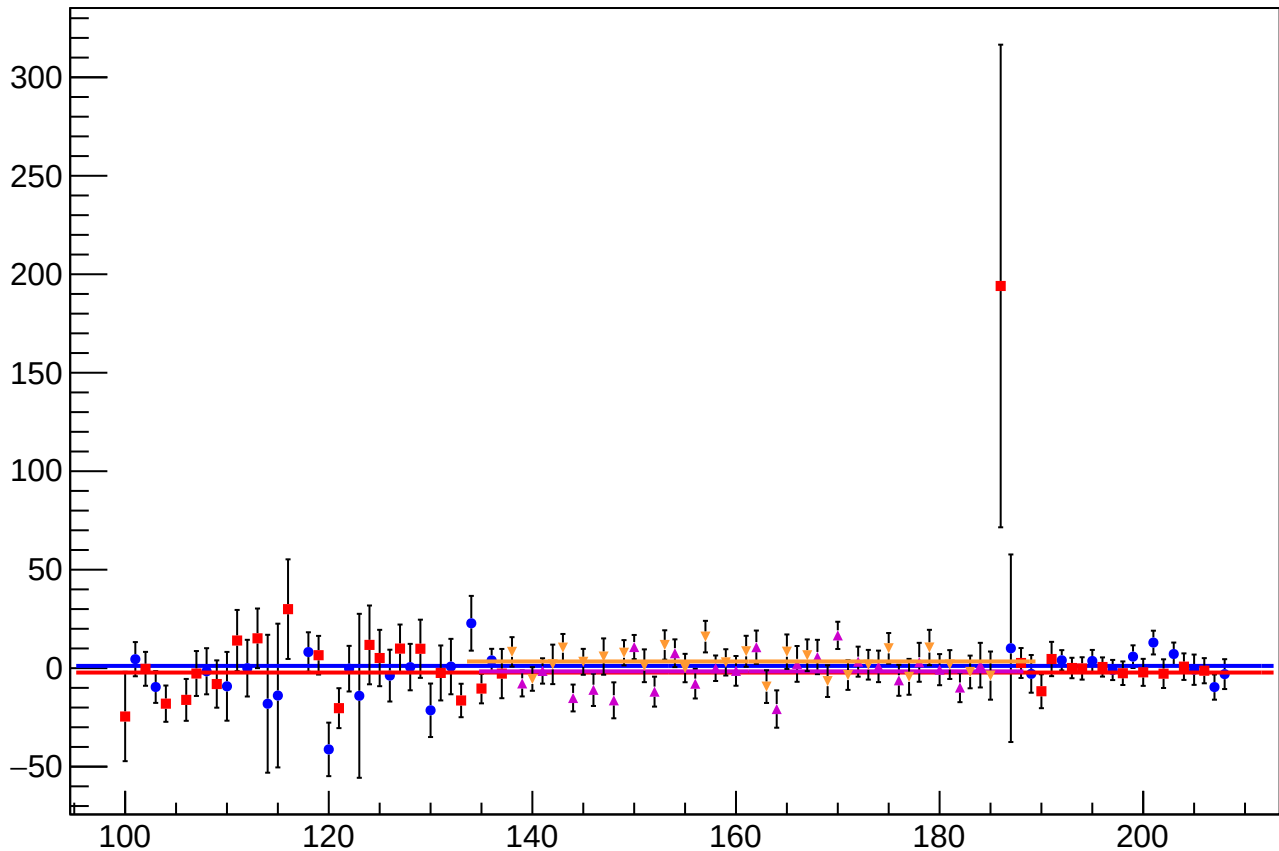
Right: 15626.291 ± 2.166 $\chi^2/\text{NDF}: 6567190.3/58$

In: 9965.524 ± 1.331 $\chi^2/\text{NDF}: 7338127.4/50$

Out: 9888.114 ± 1.295 $\chi^2/\text{NDF}: 8526034.8/55$

All: 9925.760 ± 0.928 $\chi^2/\text{NDF}: 15865900.7/105$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.149 $\pm$ 1.597 χ^2/NDF : 28.4/27

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -2.224 $\pm$ 1.559 χ^2/NDF : 26.0/30

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

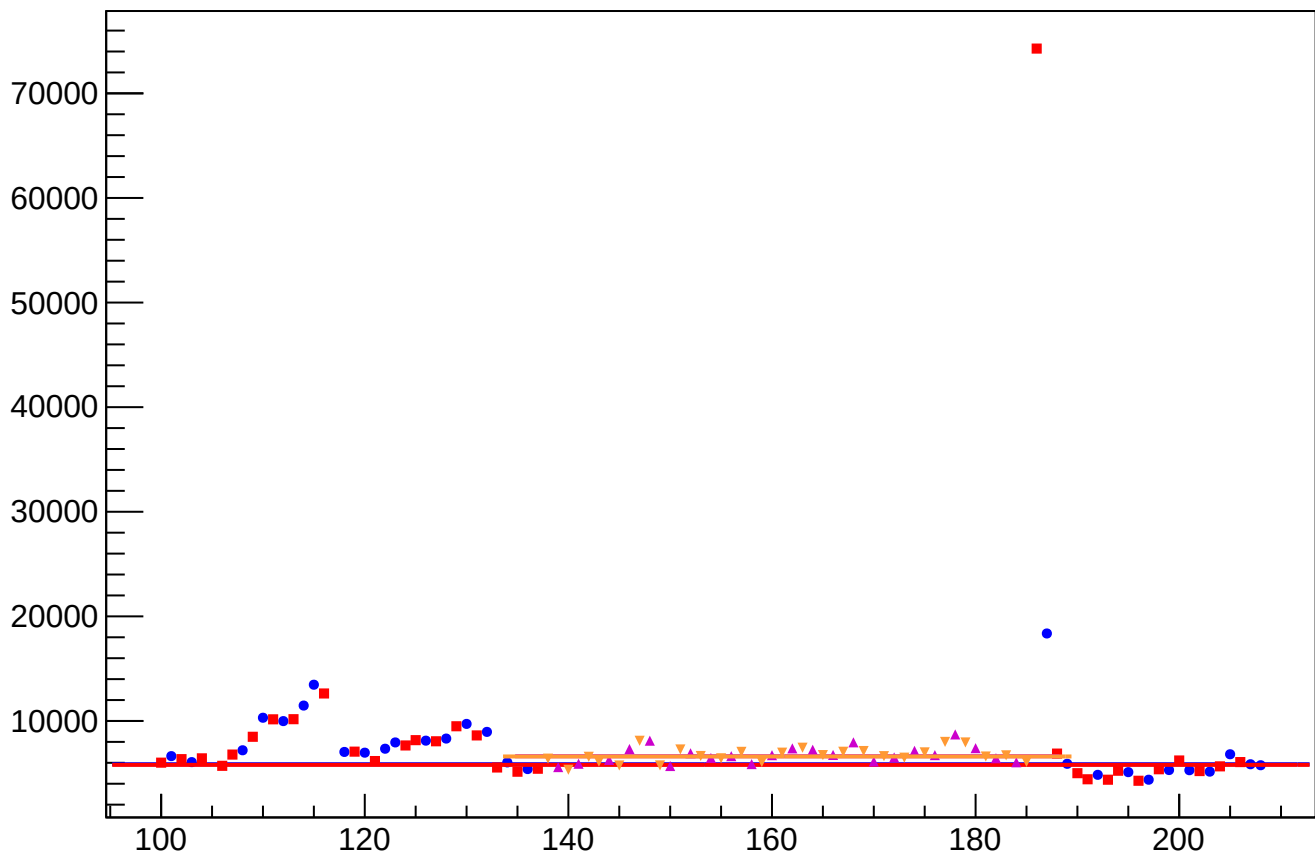
Right: -0.579 $\pm$ 1.116 χ^2/NDF : 56.7/58

In: -0.237 $\pm$ 1.130 χ^2/NDF : 63.4/50

Out: 0.606 $\pm$ 1.099 χ^2/NDF : 49.4/55

All: 0.196 $\pm$ 0.788 χ^2/NDF : 113.1/106

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5865.504+/-1.130 χ^2/NDF : 1486394.6/27

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5803.686+/-1.102 χ^2/NDF : 2132974.5/30

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

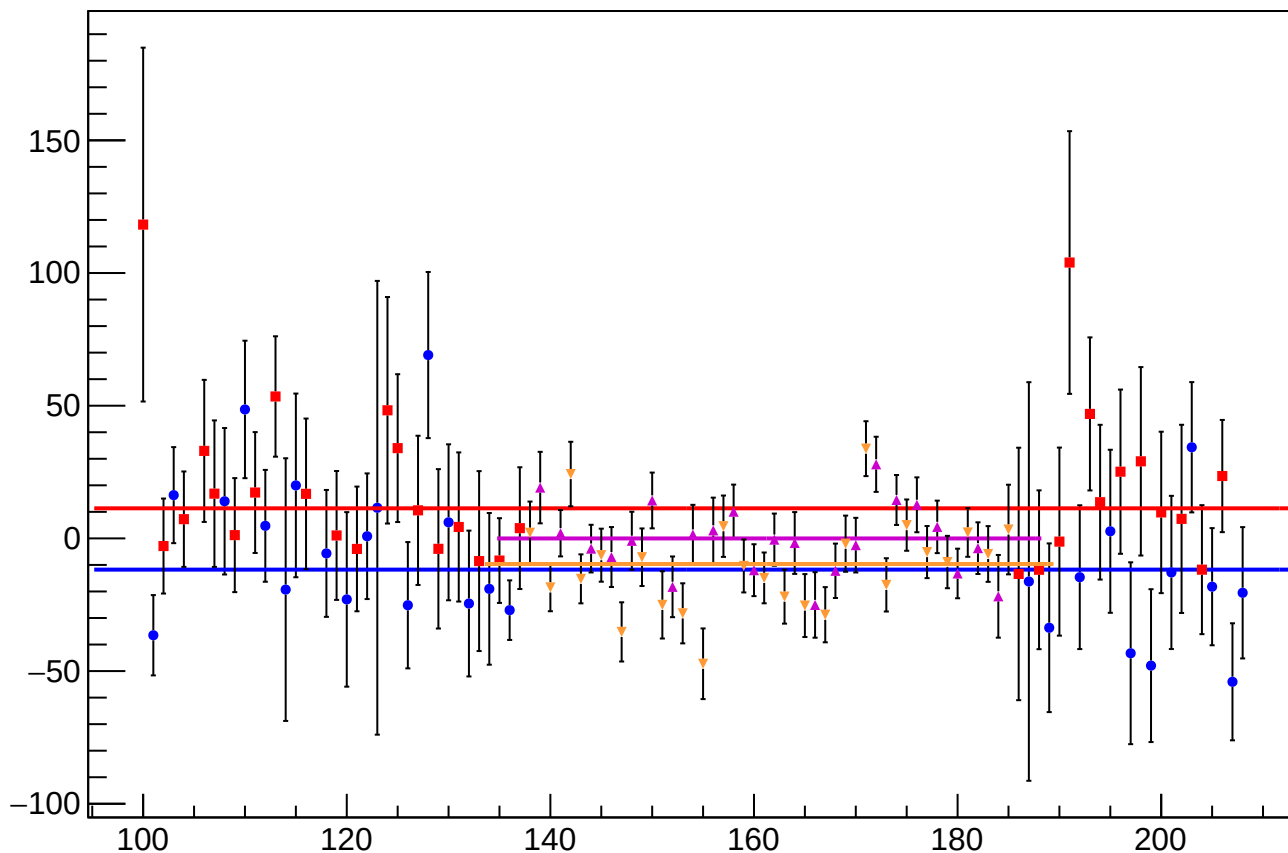
Right: 5833.838+/-0.789 χ^2/NDF : 3620903.2/58

In: 6246.692+/-0.799 χ^2/NDF : 2144660.4/50

Out: 6207.556+/-0.777 χ^2/NDF : 2798459.0/55

All: 6226.582+/-0.557 χ^2/NDF : 4944351.8/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.769 $\pm$ 4.613 χ^2/NDF : 33.4/27

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.331 $\pm$ 4.720 χ^2/NDF : 19.8/30

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

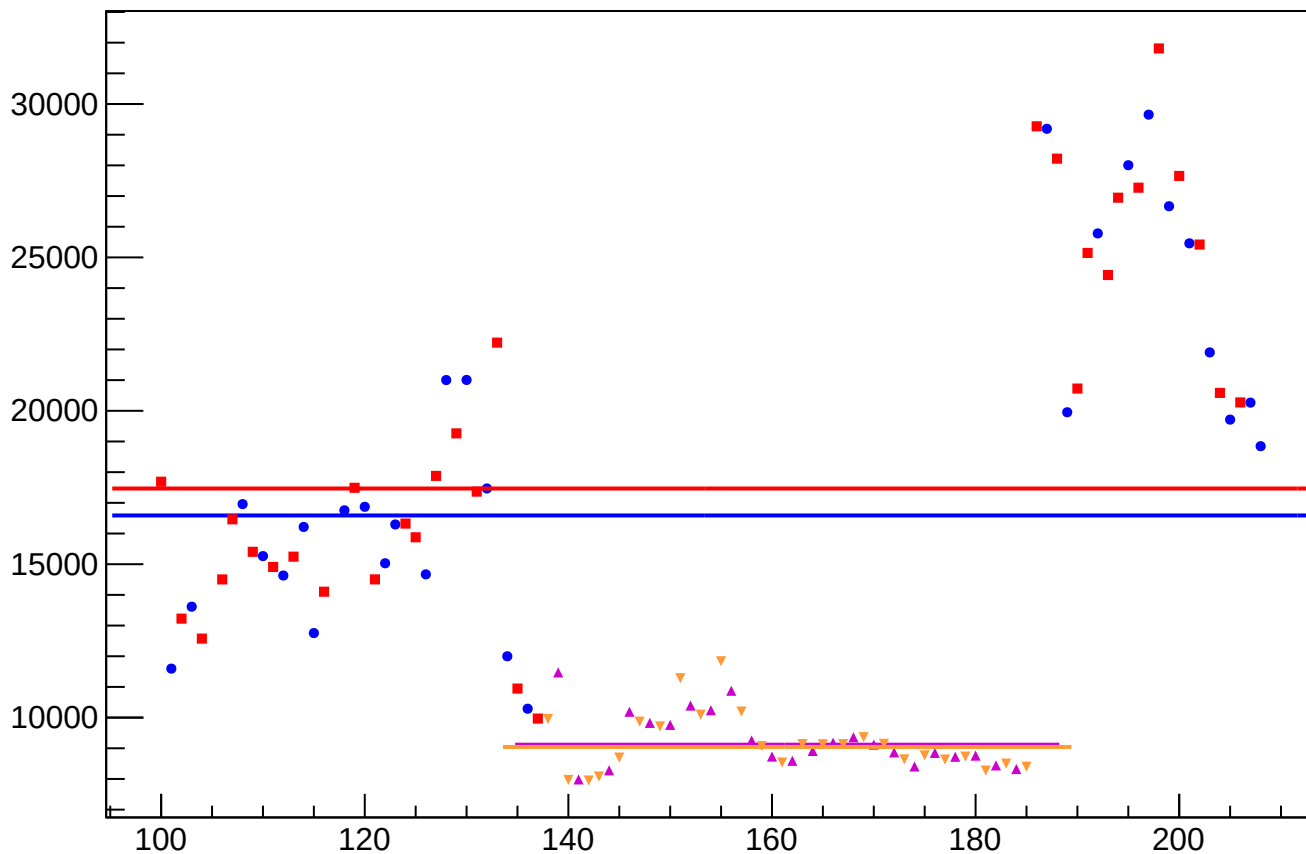
Right: -0.482 $\pm$ 3.299 χ^2/NDF : 65.4/58

In: -2.183 $\pm$ 1.980 χ^2/NDF : 69.3/50

Out: -6.131 $\pm$ 1.933 χ^2/NDF : 96.0/55

All: -4.205 $\pm$ 1.383 χ^2/NDF : 167.4/106

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16588.878 $\pm$ 3.262 χ^2 /NDF: 2625267.4/27

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 17467.163 $\pm$ 3.337 χ^2 /NDF: 2707269.6/30

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

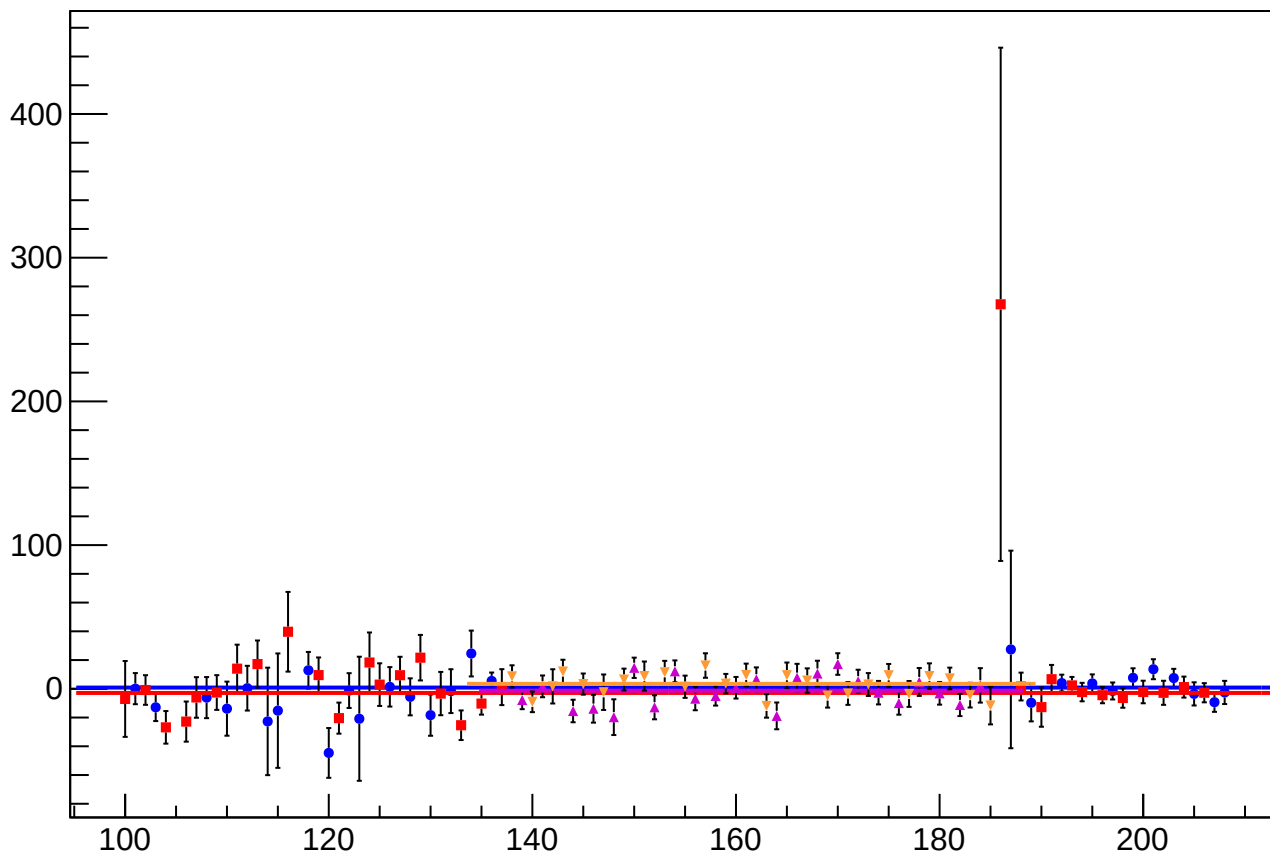
Right: 17018.012 $\pm$ 2.333 χ^2 /NDF: 5367957.3/58

In: 10493.171 $\pm$ 1.400 χ^2 /NDF: 7183244.2/50

Out: 10455.830 $\pm$ 1.366 χ^2 /NDF: 8338521.0/55

All: 10474.048 $\pm$ 0.978 χ^2 /NDF: 15522129.5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.854 ± 1.787 $\chi^2/\text{NDF}: 26.2/27$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -2.880 ± 1.774 $\chi^2/\text{NDF}: 30.9/30$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

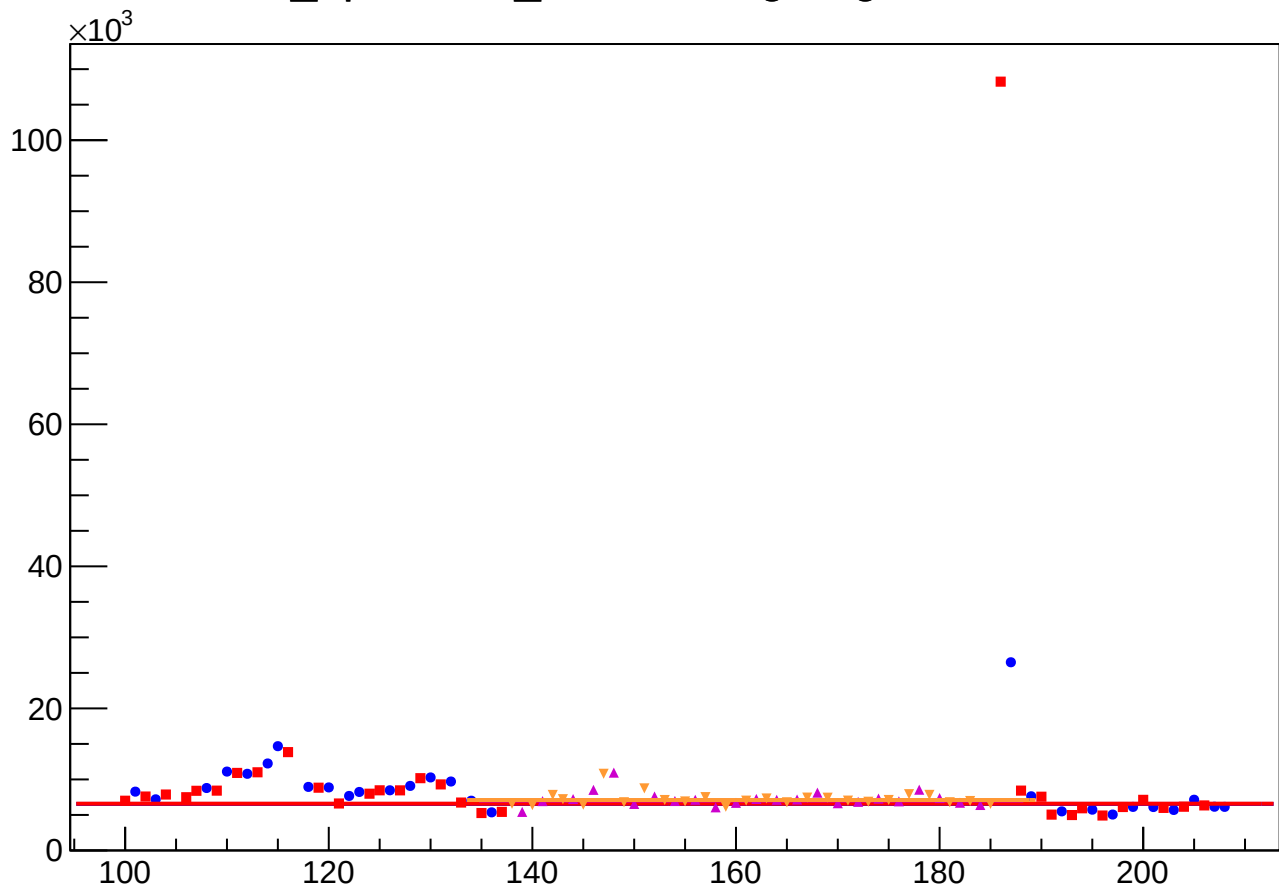
Right: -1.027 ± 1.259 $\chi^2/\text{NDF}: 59.2/58$

In: -0.271 ± 1.232 $\chi^2/\text{NDF}: 63.4/50$

Out: 0.477 ± 1.214 $\chi^2/\text{NDF}: 56.5/55$

All: 0.108 ± 0.865 $\chi^2/\text{NDF}: 120.2/106$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6547.334 $\pm$ 1.263 χ^2/NDF : 1534532.6/27

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6581.364 $\pm$ 1.254 χ^2/NDF : 2107109.8/30

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

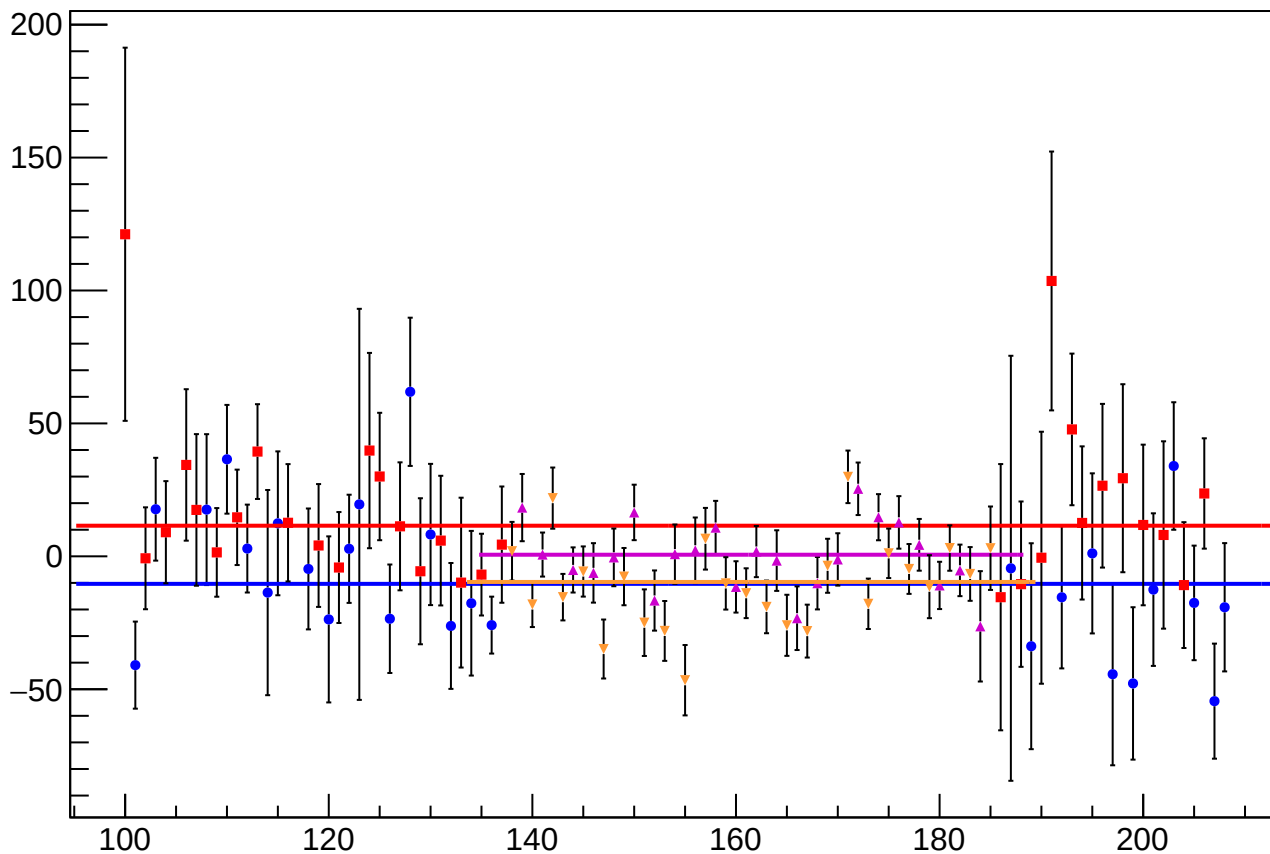
Right: 6564.474 $\pm$ 0.890 χ^2/NDF : 3642007.8/58

In: 6802.494 $\pm$ 0.871 χ^2/NDF : 2153308.8/50

Out: 6856.225 $\pm$ 0.859 χ^2/NDF : 2580054.7/55

All: 6829.745 $\pm$ 0.612 χ^2/NDF : 4735293.1/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.357 ± 4.360 χ^2/NDF : 35.3/27

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.517 ± 4.416 χ^2/NDF : 18.5/30

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

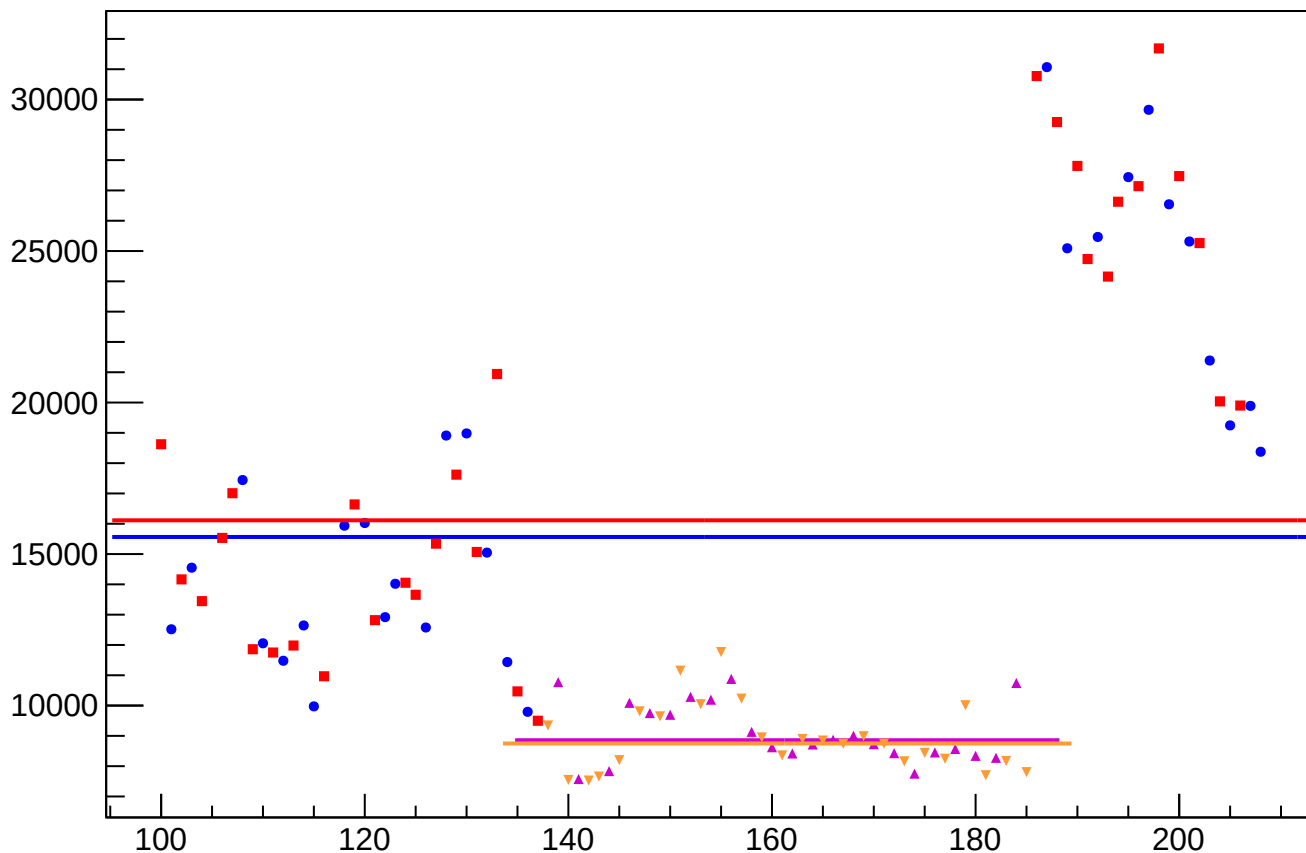
Right: 0.441 ± 3.103 χ^2/NDF : 66.2/58

In: -1.520 ± 1.917 χ^2/NDF : 70.0/50

Out: -5.867 ± 1.865 χ^2/NDF : 95.0/55

All: -3.754 ± 1.337 χ^2/NDF : 167.7/106

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15564.038 $\pm$ 3.083 χ^2 /NDF: 3056777.1/27

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 16113.605 $\pm$ 3.123 χ^2 /NDF: 3439563.5/30

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF:367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

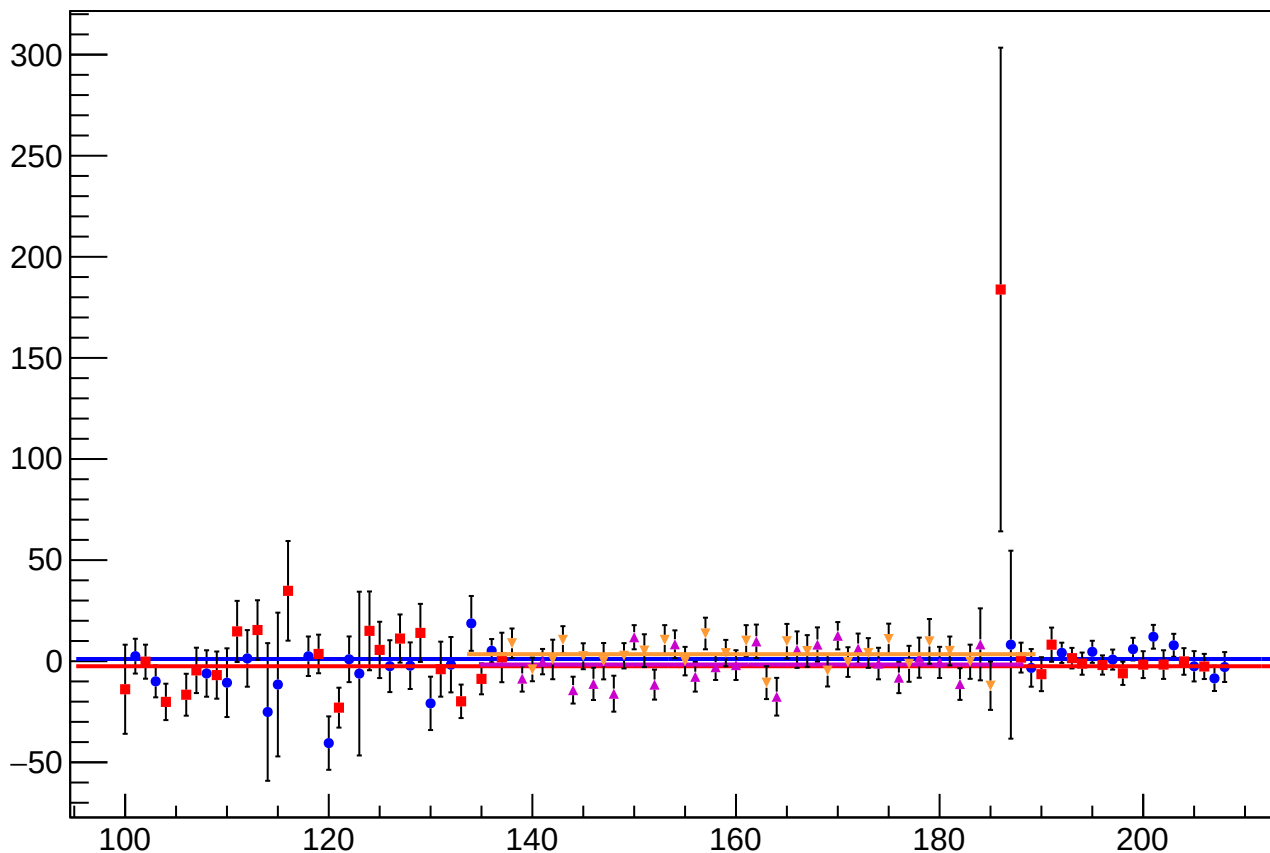
Right: 15835.325 $\pm$ 2.194 χ^2 /NDF: 6512025.1/58

In: 10153.014 $\pm$ 1.356 χ^2 /NDF:7243103.2/50

Out: 10061.822 $\pm$ 1.319 χ^2 /NDF:8474228.4/55

All: 10106.149 $\pm$ 0.945 χ^2 /NDF: 15719656.4

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.096 ± 1.558 $\chi^2/\text{NDF}: 28.3/27$

Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$

Right Out: -2.483 ± 1.520 $\chi^2/\text{NDF}: 30.8/30$

Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$

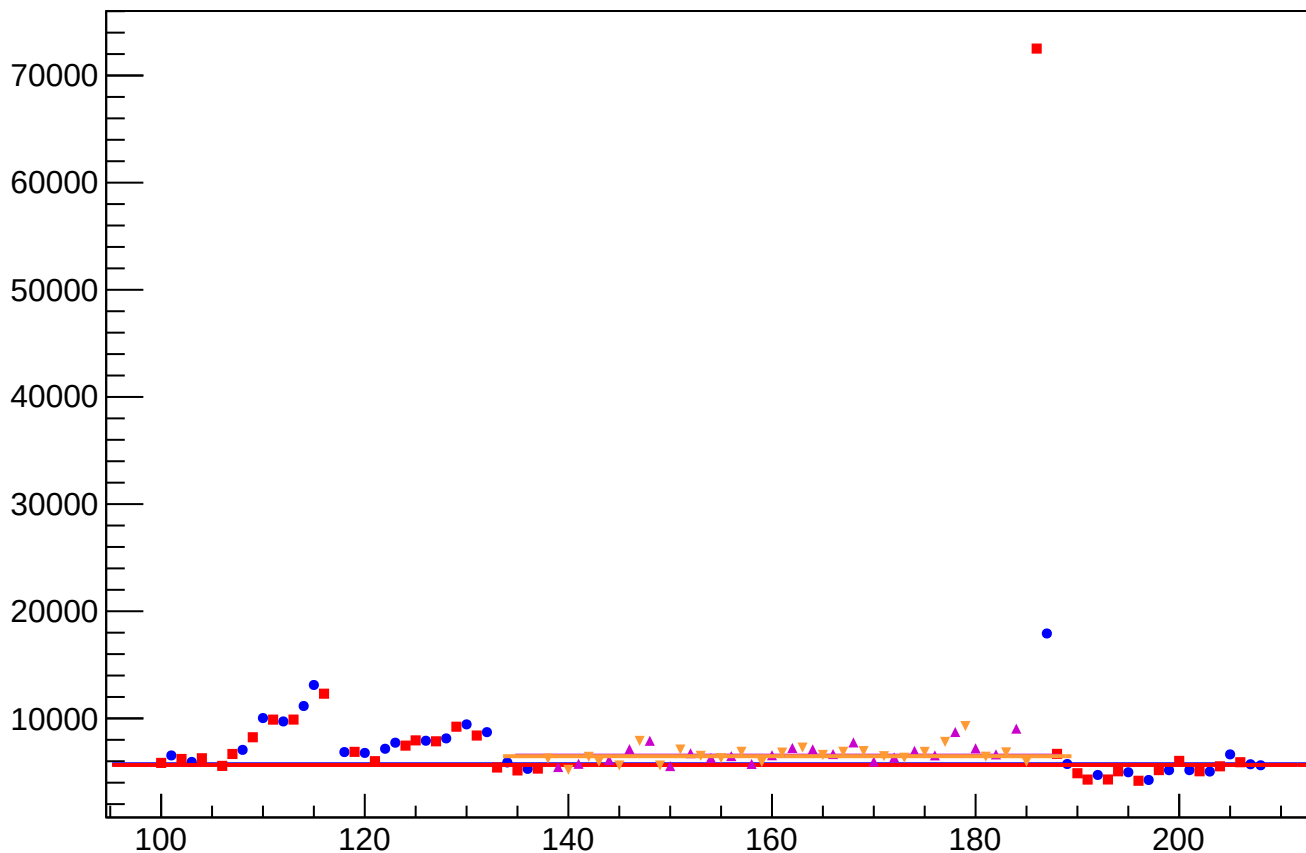
Right: -0.738 ± 1.088 $\chi^2/\text{NDF}: 61.7/58$

In: -0.254 ± 1.109 $\chi^2/\text{NDF}: 63.5/50$

Out: 0.487 ± 1.076 $\chi^2/\text{NDF}: 54.2/55$

All: 0.127 ± 0.772 $\chi^2/\text{NDF}: 117.9/106$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5718.580+/-1.102

χ^2/NDF : 1493286.9/27

Left Out: 6471.976+/-1.078

χ^2/NDF : 490282.9/24

Right Out: 5655.997+/-1.075

χ^2/NDF : 2123625.2/30

Left In: 6521.975+/-1.116

χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775

χ^2/NDF : 971356.4/47

Right: 5686.506+/-0.769

χ^2/NDF : 3618565.4/58

In: 6115.250+/-0.784

χ^2/NDF : 2235811.4/50

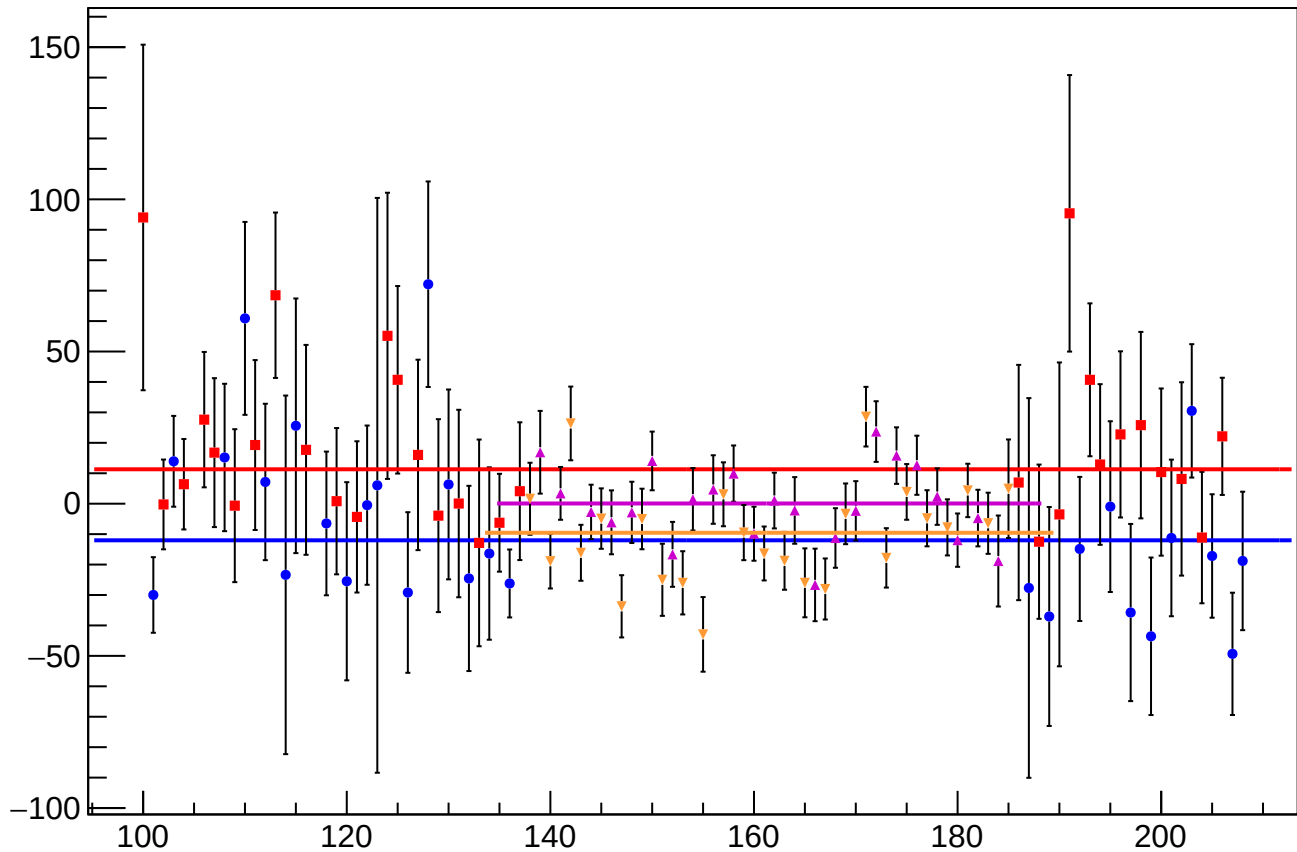
Out: 6062.770+/-0.761

χ^2/NDF : 2901324.0/55

All: 6088.230+/-0.546

χ^2/NDF : 5139442.5/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.029 $\pm$ 4.417 χ^2/NDF : 32.6/27

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 11.305 $\pm$ 4.540 χ^2/NDF : 20.4/30

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

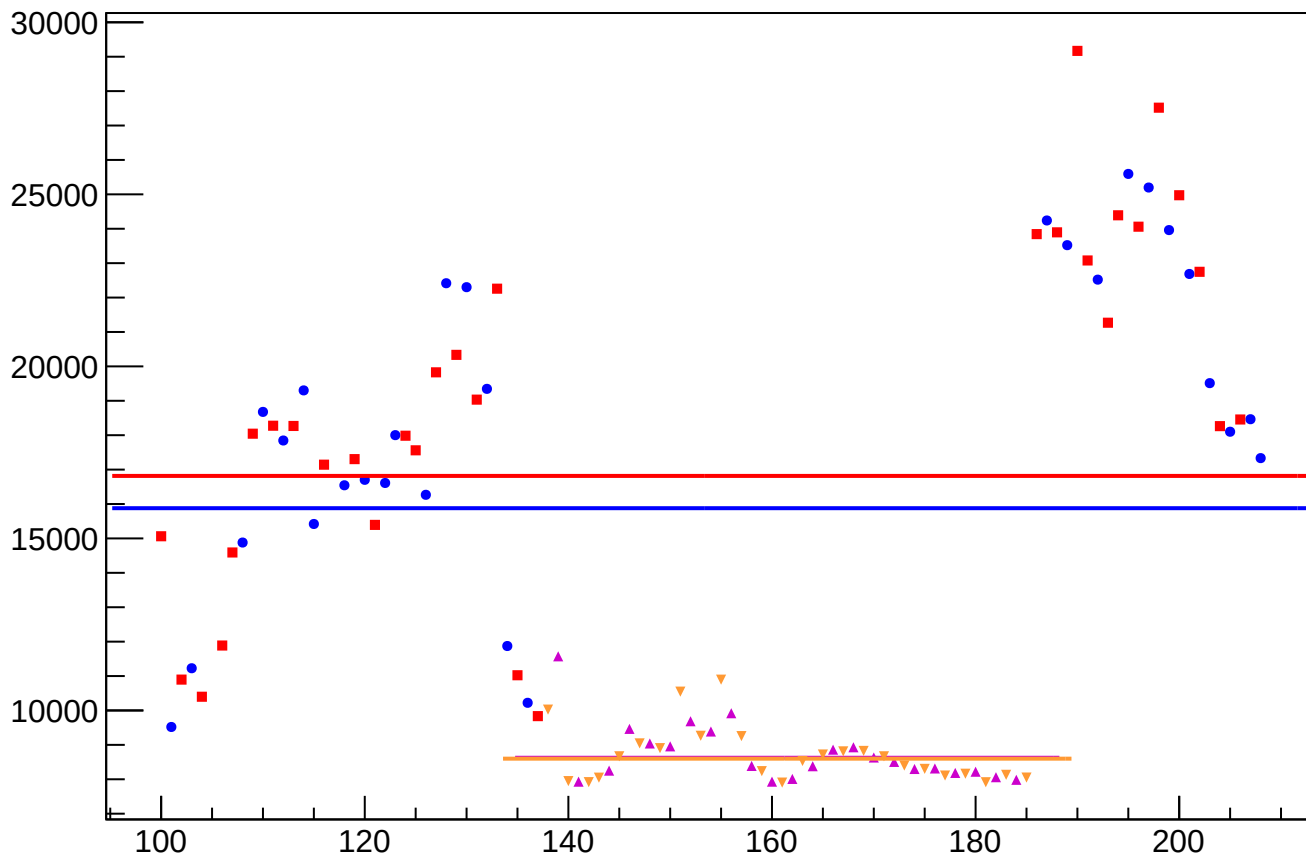
Right: -0.683 $\pm$ 3.166 χ^2/NDF : 66.5/58

In: -2.112 $\pm$ 1.876 χ^2/NDF : 68.5/50

Out: -6.131 $\pm$ 1.839 χ^2/NDF : 97.5/55

All: -4.162 $\pm$ 1.314 χ^2/NDF : 168.4/106

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15878.551 $\pm$ 3.123 χ^2 /NDF: 2685802.3/27

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 16816.625 $\pm$ 3.211 χ^2 /NDF: 2657495.3/30

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

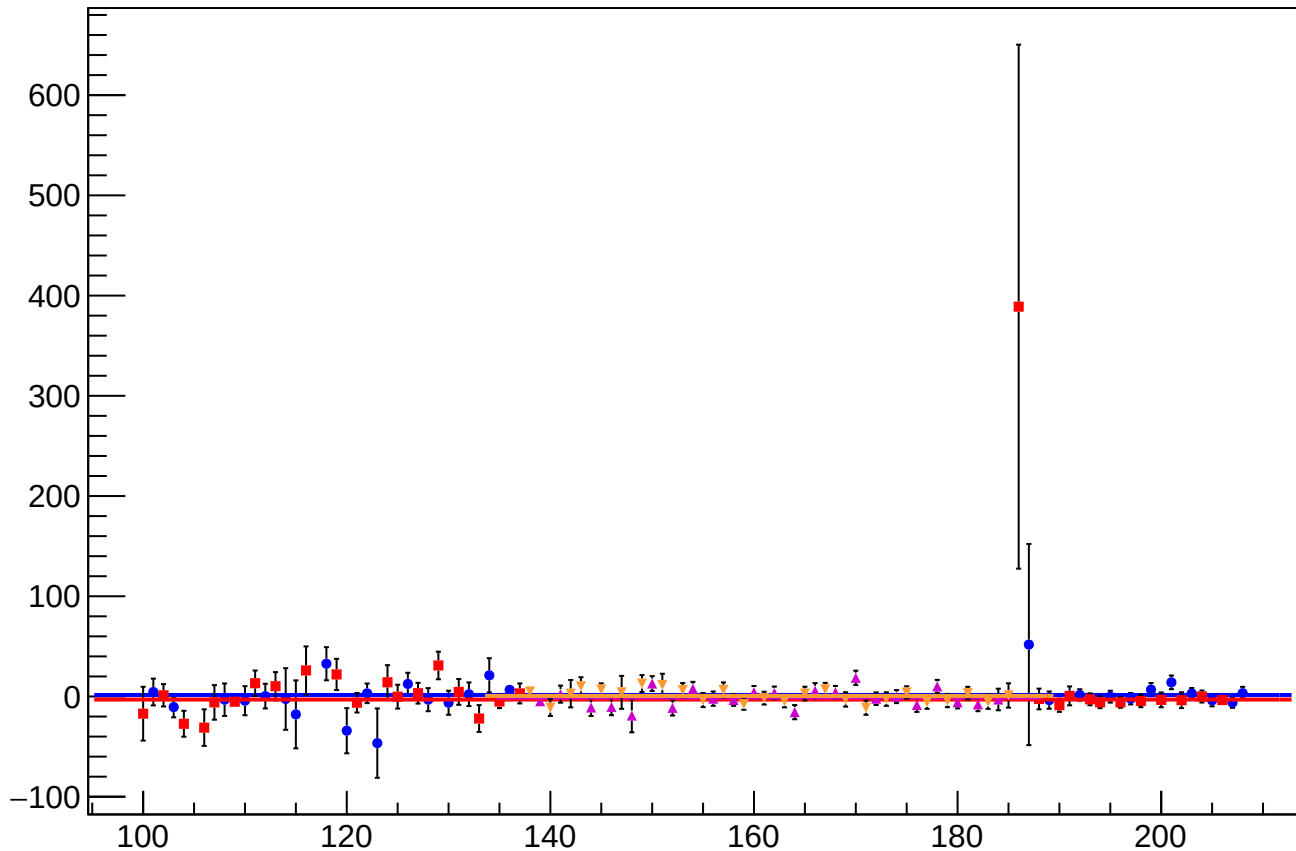
Right: 16334.693 $\pm$ 2.239 χ^2 /NDF: 5387158.1/58

In: 9934.120 $\pm$ 1.327 χ^2 /NDF: 7342708.5/50

Out: 9947.546 $\pm$ 1.301 χ^2 /NDF: 8382975.6/55

All: 9940.967 $\pm$ 0.929 χ^2 /NDF: 15725736.3/105

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.530 $\pm$ 1.578 χ^2/NDF : 22.4/27

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -3.057 $\pm$ 1.524 χ^2/NDF : 27.6/30

Left In: -1.050 $\pm$ 1.396 χ^2/NDF : 32.5/22

Left: -0.273 $\pm$ 0.995 χ^2/NDF : 52.6/47

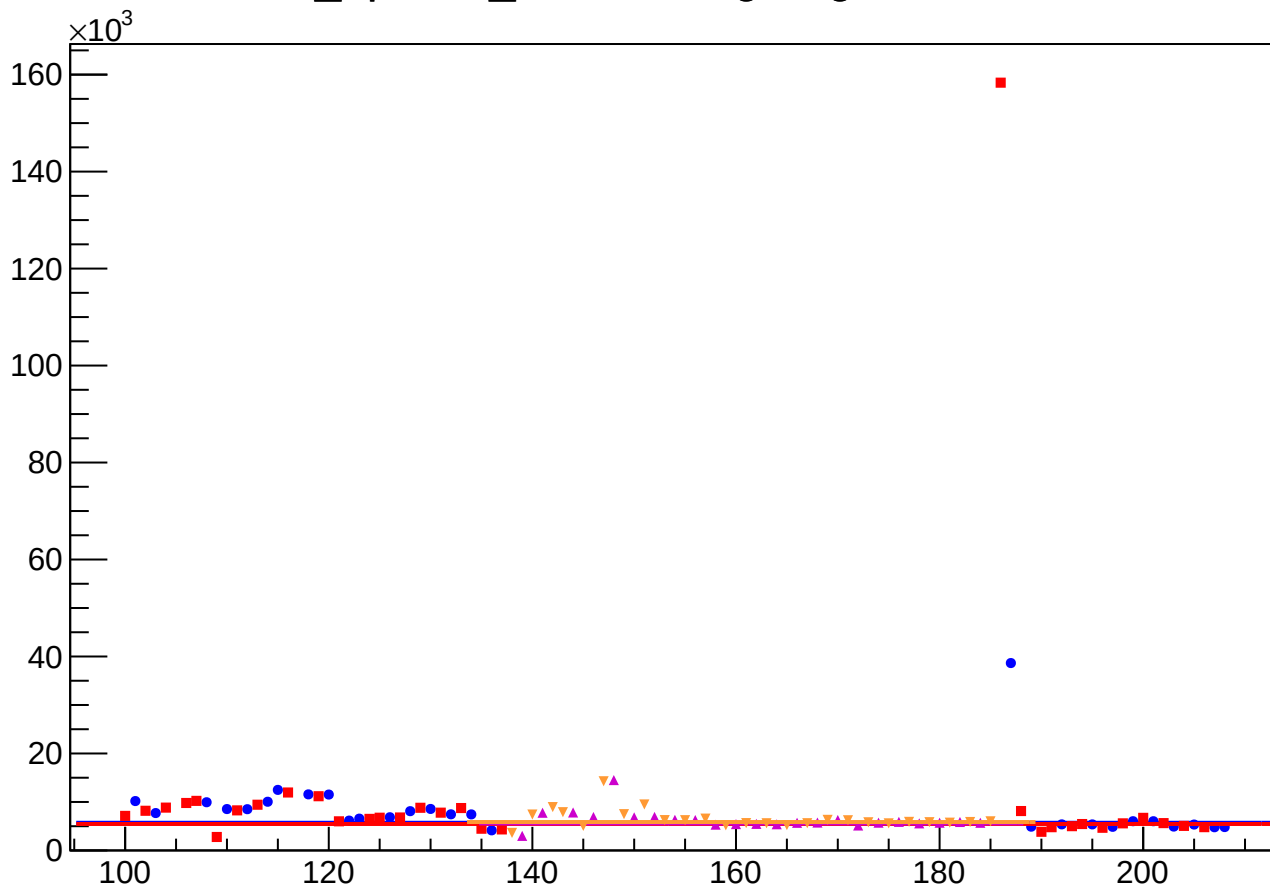
Right: -0.843 $\pm$ 1.096 χ^2/NDF : 54.4/58

In: 0.083 $\pm$ 1.045 χ^2/NDF : 56.5/50

Out: -1.135 $\pm$ 1.038 χ^2/NDF : 50.0/55

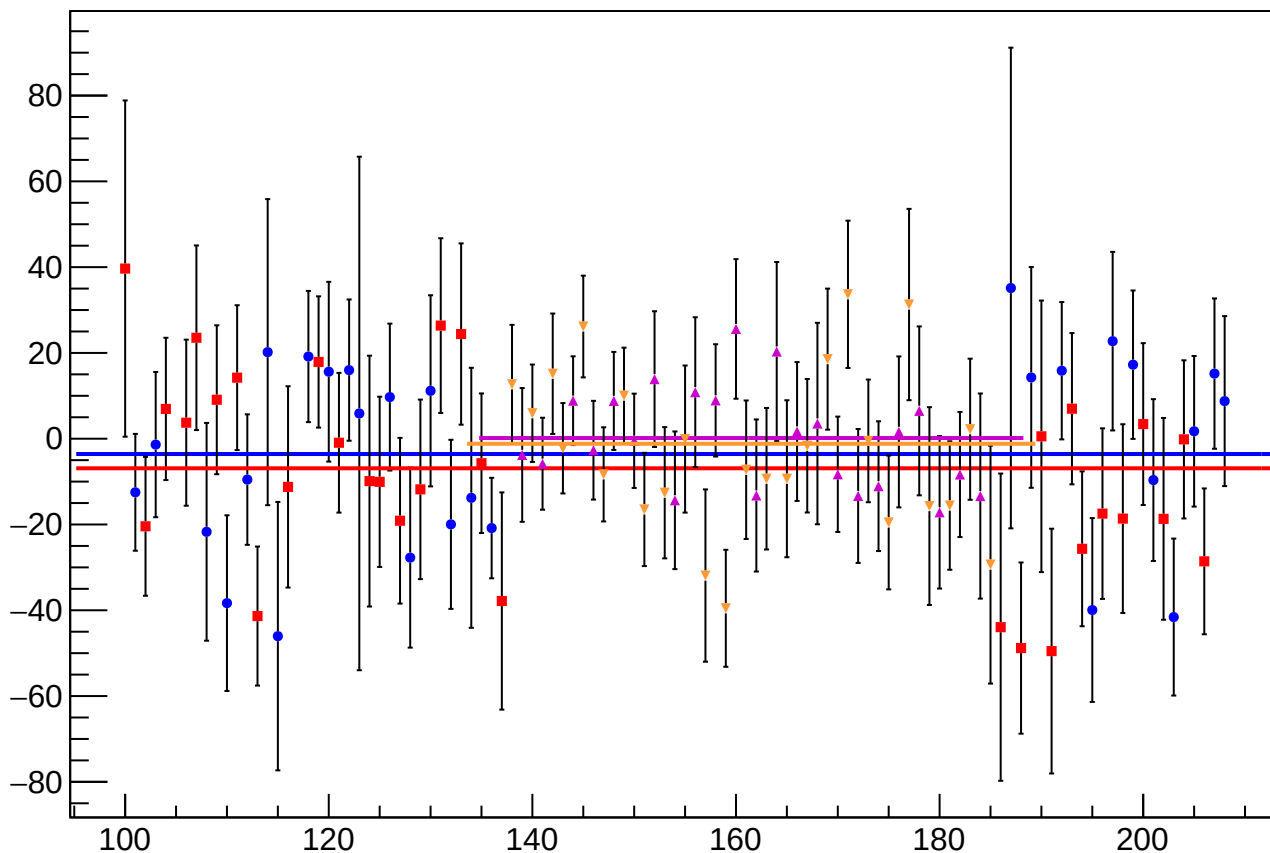
All: -0.530 $\pm$ 0.737 χ^2/NDF : 107.1/106

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5708.390 $\pm$ 1.116	χ^2/NDF : 2095885.4/27	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5579.641 $\pm$ 0.775	χ^2/NDF : 5557364.6/58
Right Out: 5459.476 $\pm$ 1.078	χ^2/NDF : 3435727.3/30	In: 5631.497 $\pm$ 0.739	χ^2/NDF : 4267142.4/50
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5674.546 $\pm$ 0.734	χ^2/NDF : 5200051.9/55
		All: 5653.172 $\pm$ 0.521	χ^2/NDF : 9468902.3/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.571 ± 3.615 $\chi^2/\text{NDF}: 30.5/27$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -6.897 ± 3.547 $\chi^2/\text{NDF}: 34.0/30$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

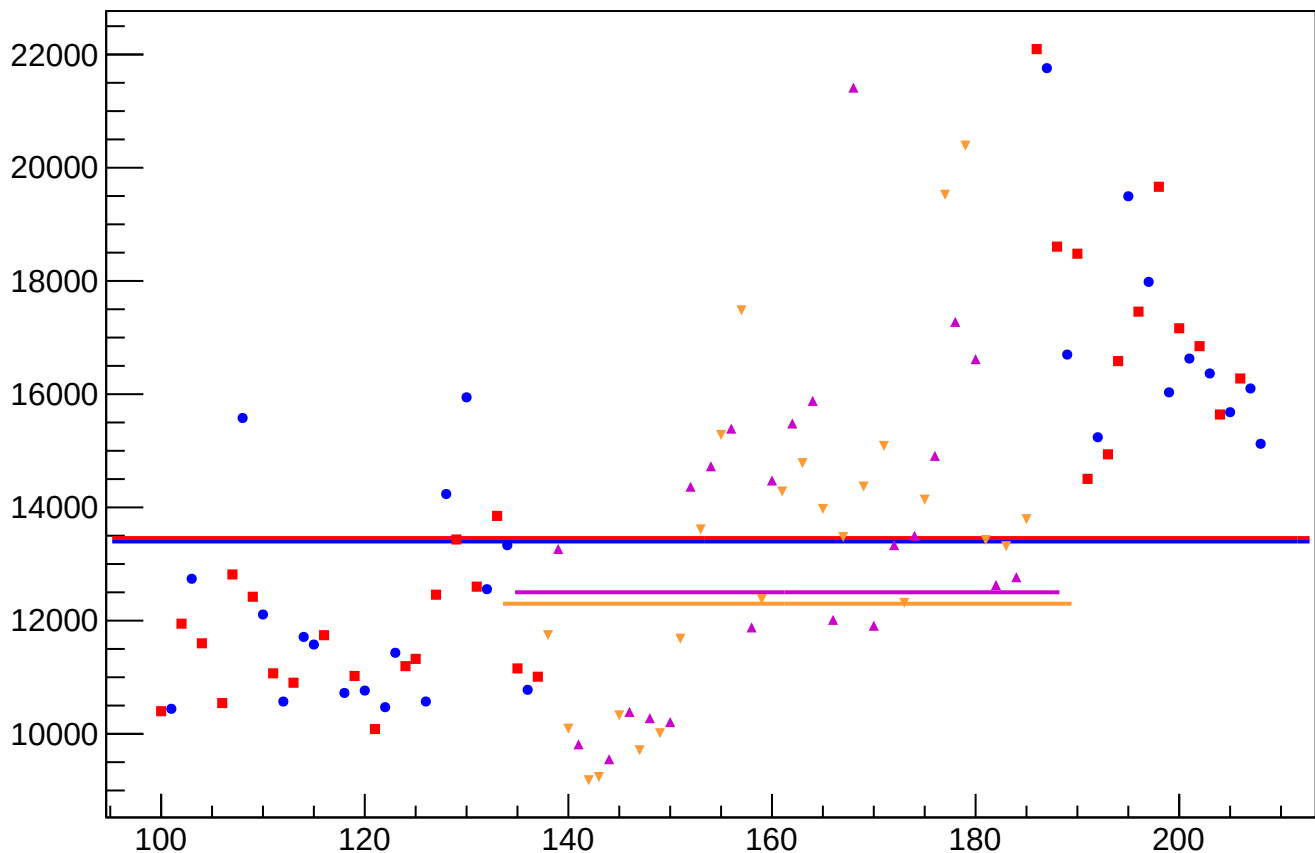
Right: -5.266 ± 2.532 $\chi^2/\text{NDF}: 65.0/58$

In: -1.398 ± 2.335 $\chi^2/\text{NDF}: 42.6/50$

Out: -3.509 ± 2.263 $\chi^2/\text{NDF}: 69.3/55$

All: -2.486 ± 1.625 $\chi^2/\text{NDF}: 112.3/106$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13398.331+/-2.556

χ^2/NDF : 1162937.1/27

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 13428.886+/-1.790 χ^2/NDF : 2430606.4/58

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 12875.126+/-1.651 χ^2/NDF : 2592680.6/50

Right Out: 13458.297+/-2.508

χ^2/NDF : 1267388.9/30

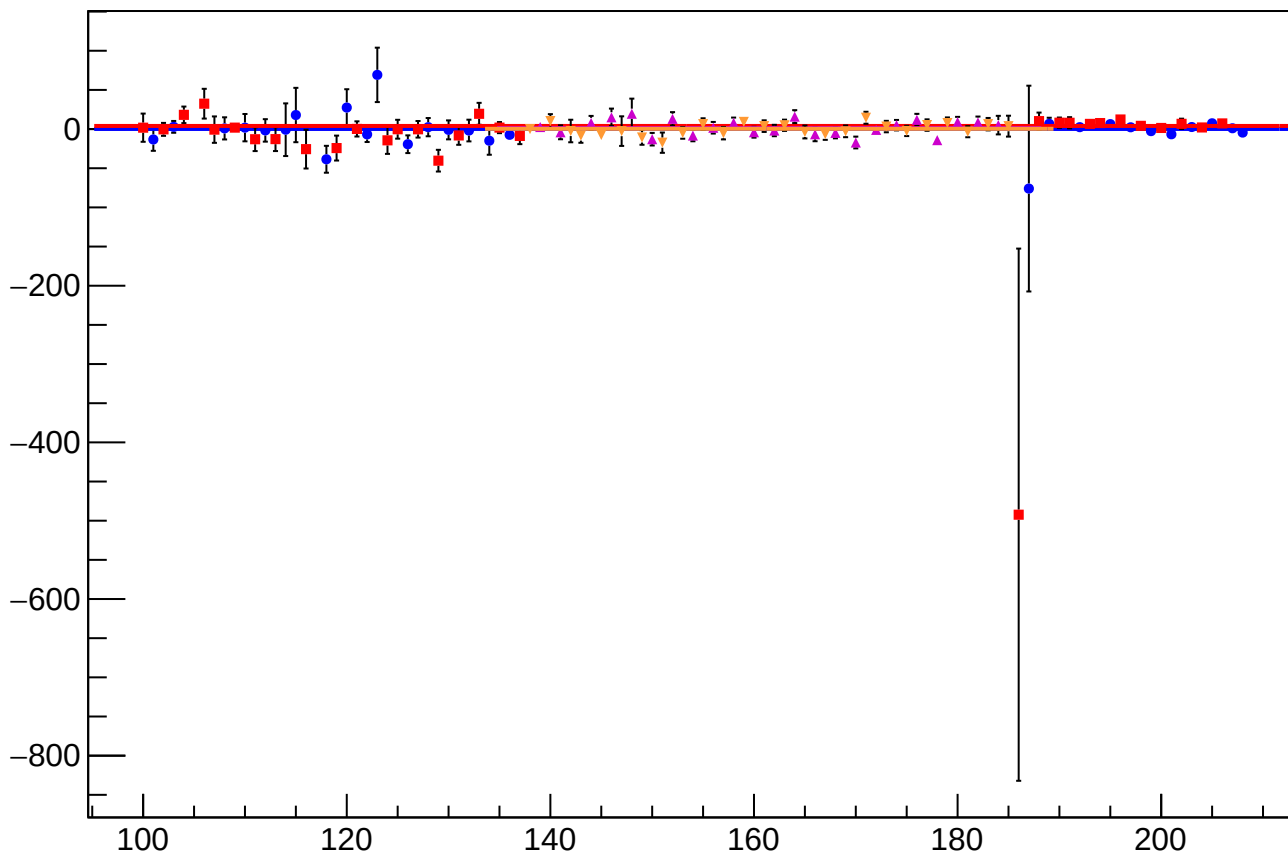
Out: 12770.698+/-1.600 χ^2/NDF : 2900167.6/55

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 12821.282+/-1.149 χ^2/NDF : 5494911.1/171

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.152 $\pm$ 1.344 χ^2 /NDF: 27.8/27

Left Out: 0.353 $\pm$ 1.433 χ^2 /NDF:19.1/24

Right Out: 3.992 $\pm$ 1.346 χ^2 /NDF: 35.1/30

Left In: 1.165 $\pm$ 1.371 χ^2 /NDF:33.6/22

Left: 0.777 $\pm$ 0.991 χ^2 /NDF: 52.9/47

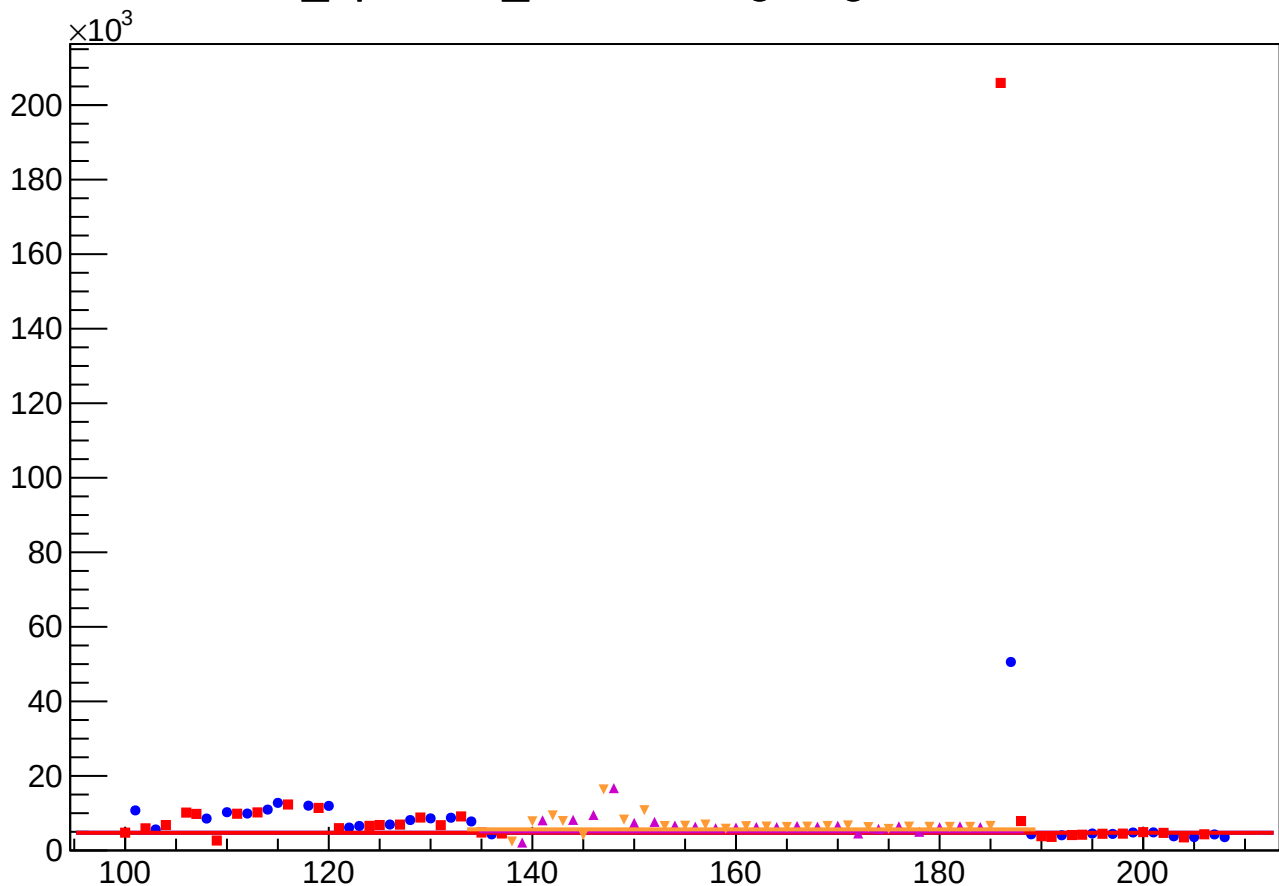
Right: 2.069 $\pm$ 0.951 χ^2 /NDF: 67.0/58

In: 0.648 $\pm$ 0.960 χ^2 /NDF:61.7/50

Out: 2.287 $\pm$ 0.981 χ^2 /NDF:57.7/55

All: 1.449 $\pm$ 0.686 χ^2 /NDF: 120.8/106

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4750.068 $\pm$ 0.950 χ^2/NDF : 3158356.5/27

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4743.337 $\pm$ 0.952 χ^2/NDF : 3725508.4/30

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

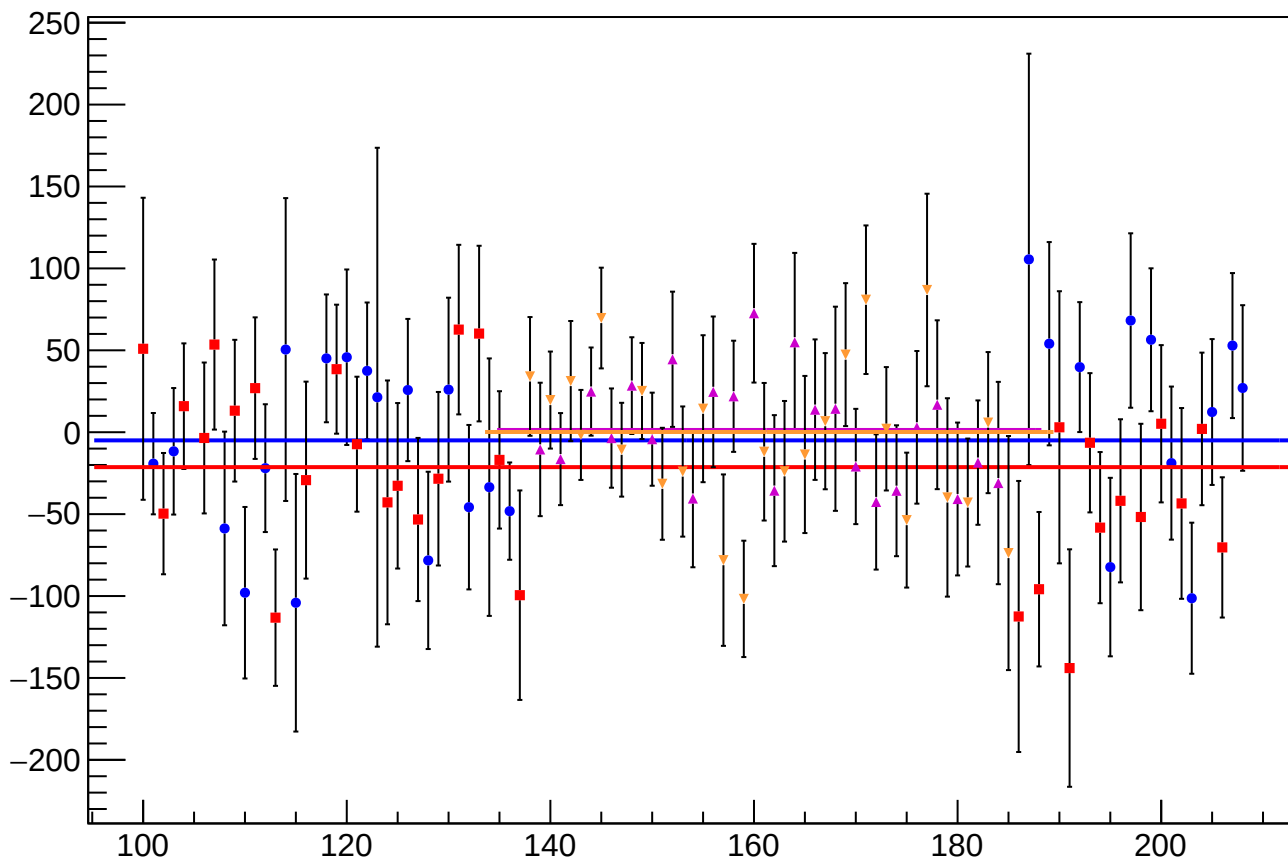
Right: 4746.708 $\pm$ 0.673 χ^2/NDF : 6883890.0/58

In: 4940.031 $\pm$ 0.679 χ^2/NDF : 8735494.6/50

Out: 5172.734 $\pm$ 0.694 χ^2/NDF : 8288110.3/55

All: 5053.816 $\pm$ 0.485 χ^2/NDF : 17081073.5/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.979 $\pm$ 9.011 χ^2/NDF : 31.1/27

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF :31.3/24

Right Out: -21.312 $\pm$ 8.840 χ^2/NDF : 30.5/30

Left In: 1.374 $\pm$ 7.990 χ^2/NDF :13.3/22

Left: 0.734 $\pm$ 5.538 χ^2/NDF : 44.6/47

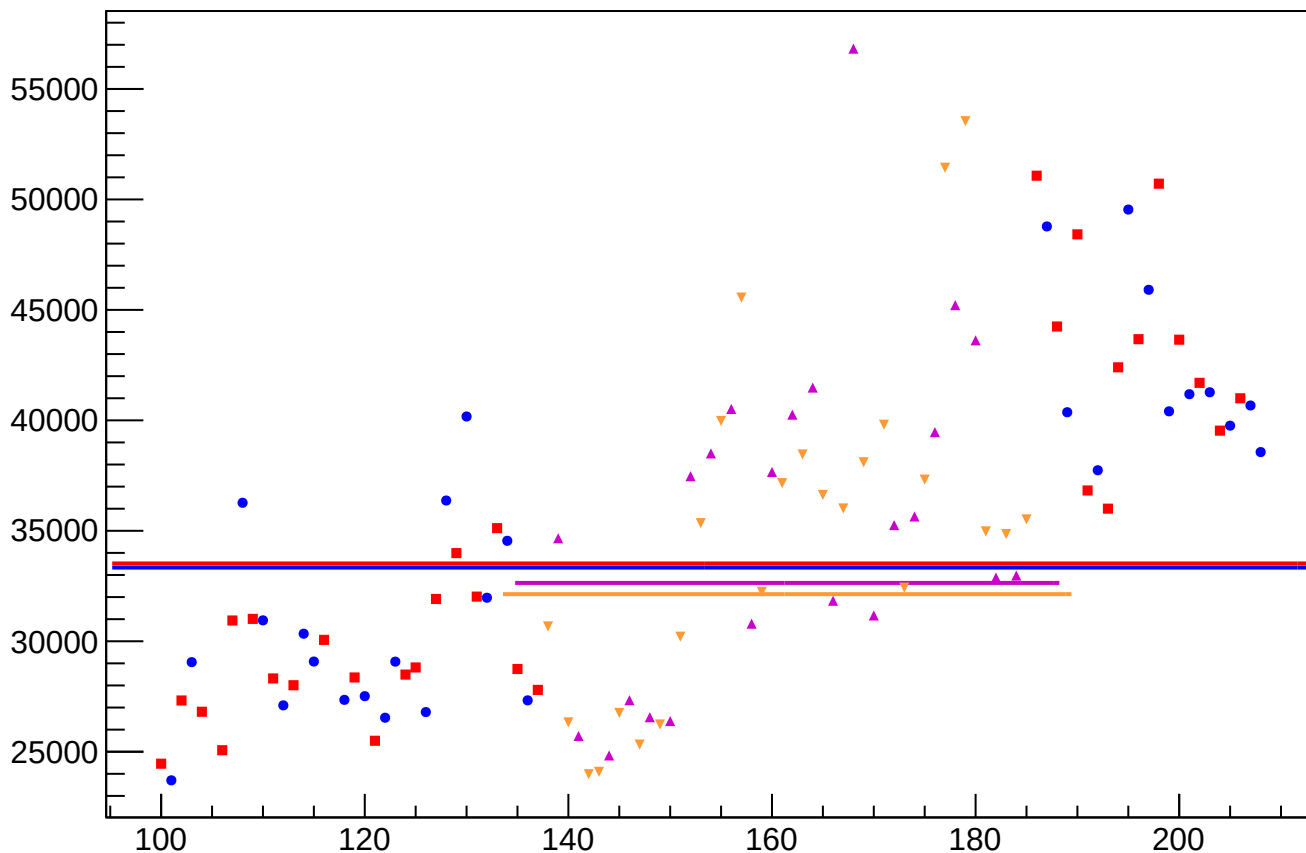
Right: -13.302 $\pm$ 6.310 χ^2/NDF : 63.2/58

In: -1.423 $\pm$ 5.978 χ^2/NDF :44.6/50

Out: -9.091 $\pm$ 5.799 χ^2/NDF :65.1/55

All: -5.374 $\pm$ 4.162 χ^2/NDF : 110.6/106

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33336.240+/-6.371

χ^2/NDF : 1232571.3/27

Left: 32376.774+/-3.916

χ^2/NDF : 2946456.2/47

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right: 33430.997+/-4.462

χ^2/NDF : 2535478.6/58

Right Out: 33522.191+/-6.250

χ^2/NDF : 1302473.2/30

In: 32947.137+/-4.227

χ^2/NDF : 2641396.0/50

Out: 32730.464+/-4.100

χ^2/NDF : 2870718.6/55

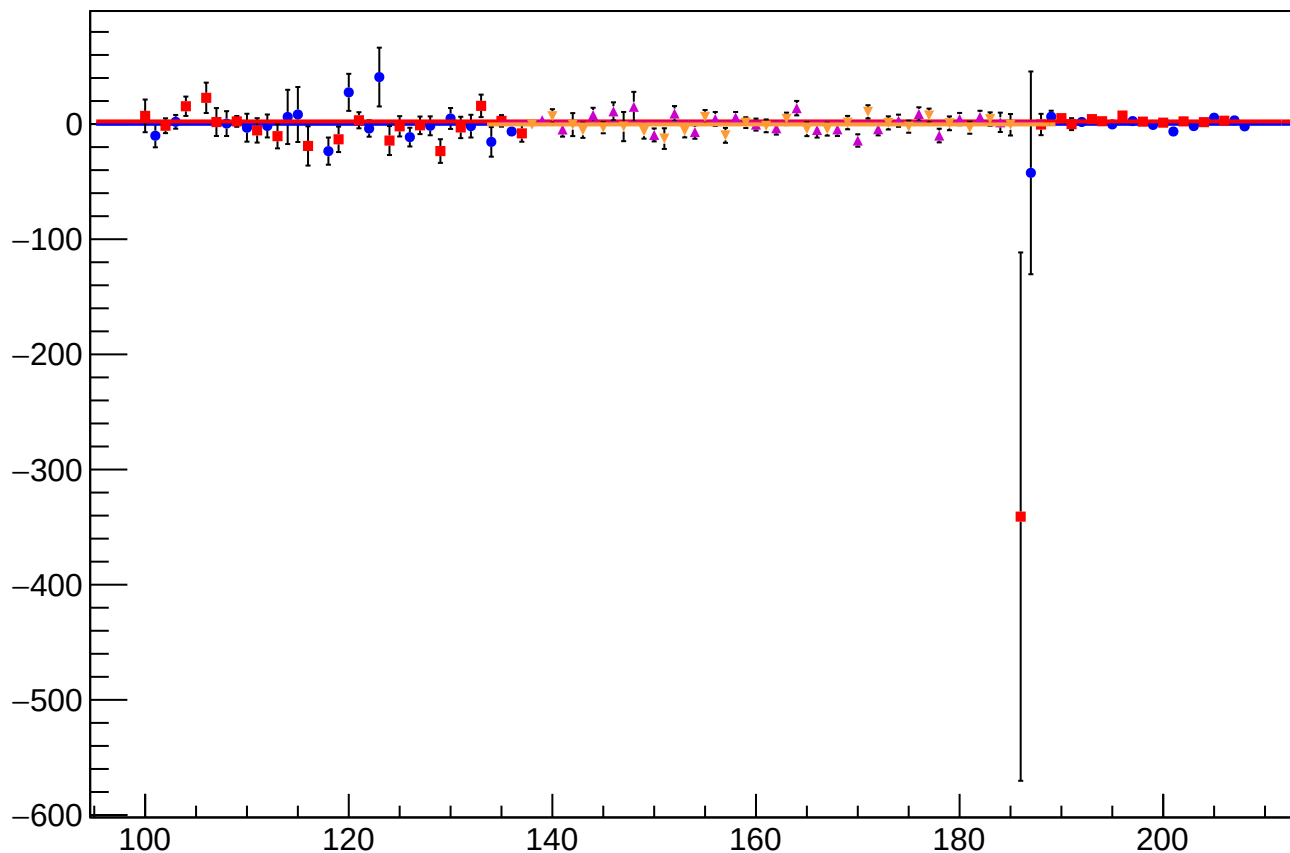
Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 32835.500+/-2.943

χ^2/NDF : 5513468.2/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.820 χ^2/NDF : 34.2/27

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.276 ± 0.887 χ^2/NDF : 29.7/30

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

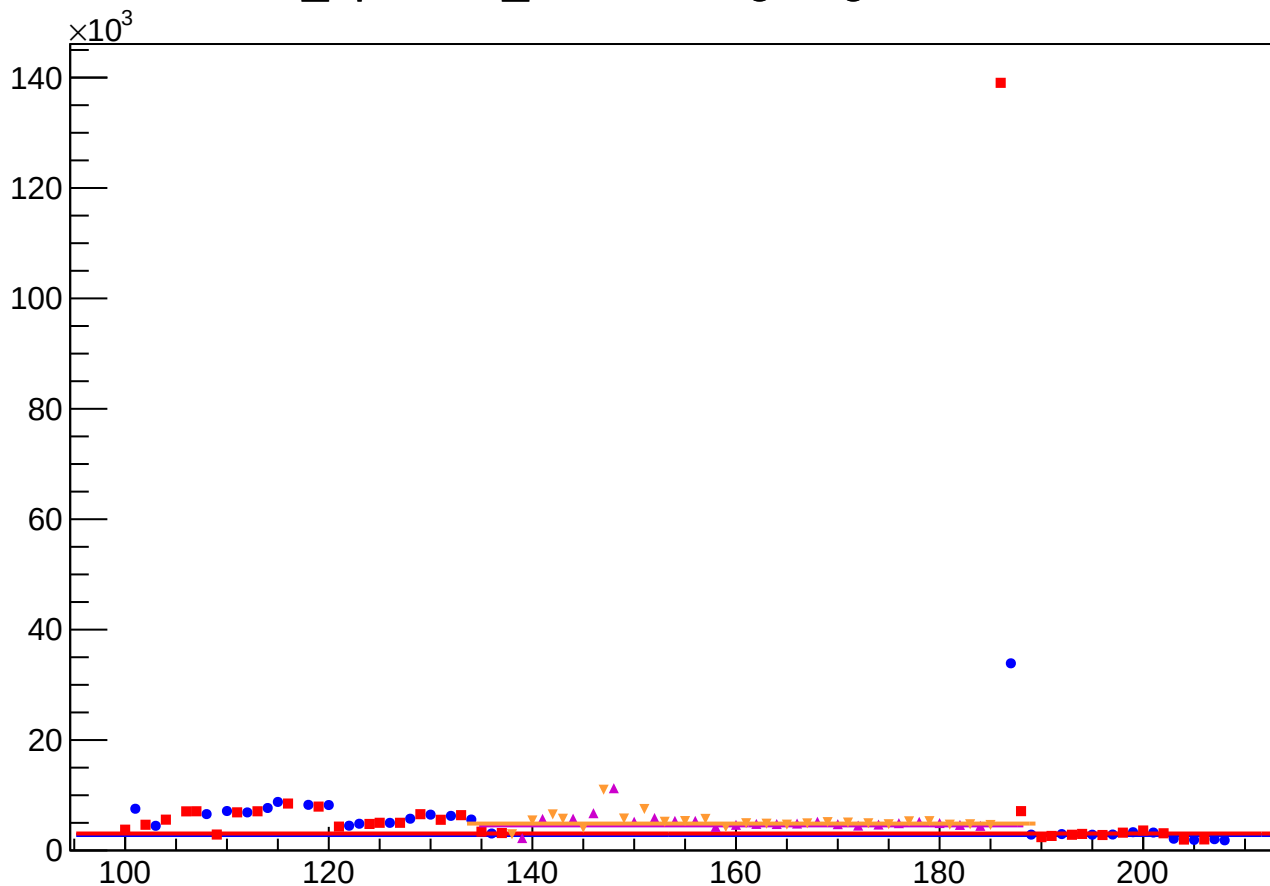
Right: 1.164 ± 0.602 χ^2/NDF : 66.9/58

In: 0.449 ± 0.666 χ^2/NDF : 70.6/50

Out: 1.333 ± 0.707 χ^2/NDF : 50.5/55

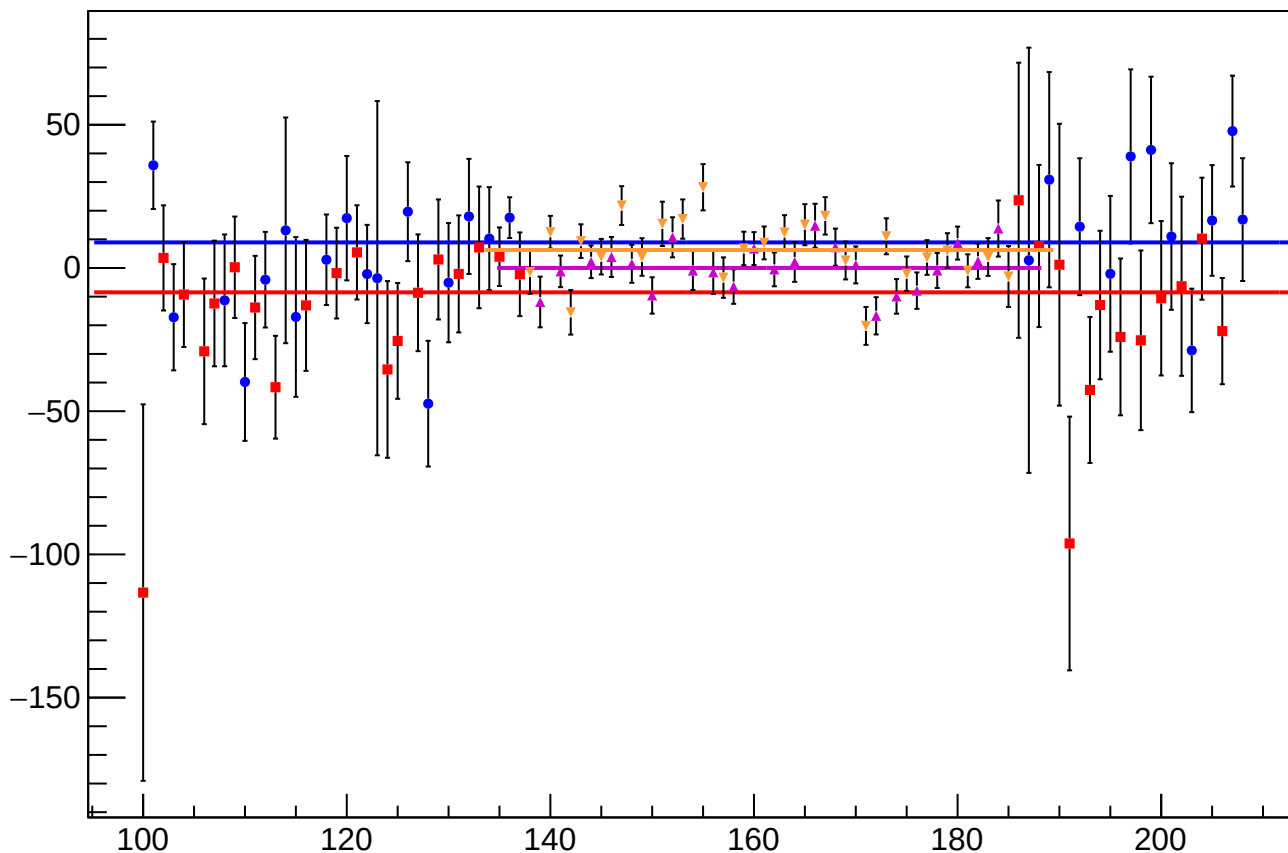
All: 0.865 ± 0.485 χ^2/NDF : 121.9/106

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2795.956+/-0.580	χ^2/NDF : 4894224.2/27	Left: 4702.320+/-0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567+/-0.829	χ^2/NDF : 1511151.0/24	Right: 2922.144+/-0.426	χ^2/NDF : 9973436.6/58
Right Out: 3069.816+/-0.627	χ^2/NDF : 4976328.6/30	In: 3390.244+/-0.471	χ^2/NDF : 10621917.3/50
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 3724.798+/-0.500	χ^2/NDF : 9484723.6/55
		All: 3547.510+/-0.343	χ^2/NDF : 20343941.0/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.934 $\pm$ 3.589 χ^2/NDF : 33.4/27

Left Out: 6.296 $\pm$ 1.310 χ^2/NDF : 56.5/24

Right Out: -8.498 $\pm$ 3.745 χ^2/NDF : 20.9/30

Left In: 0.020 $\pm$ 1.353 χ^2/NDF : 29.9/22

Left: 3.259 $\pm$ 0.941 χ^2/NDF : 97.5/47

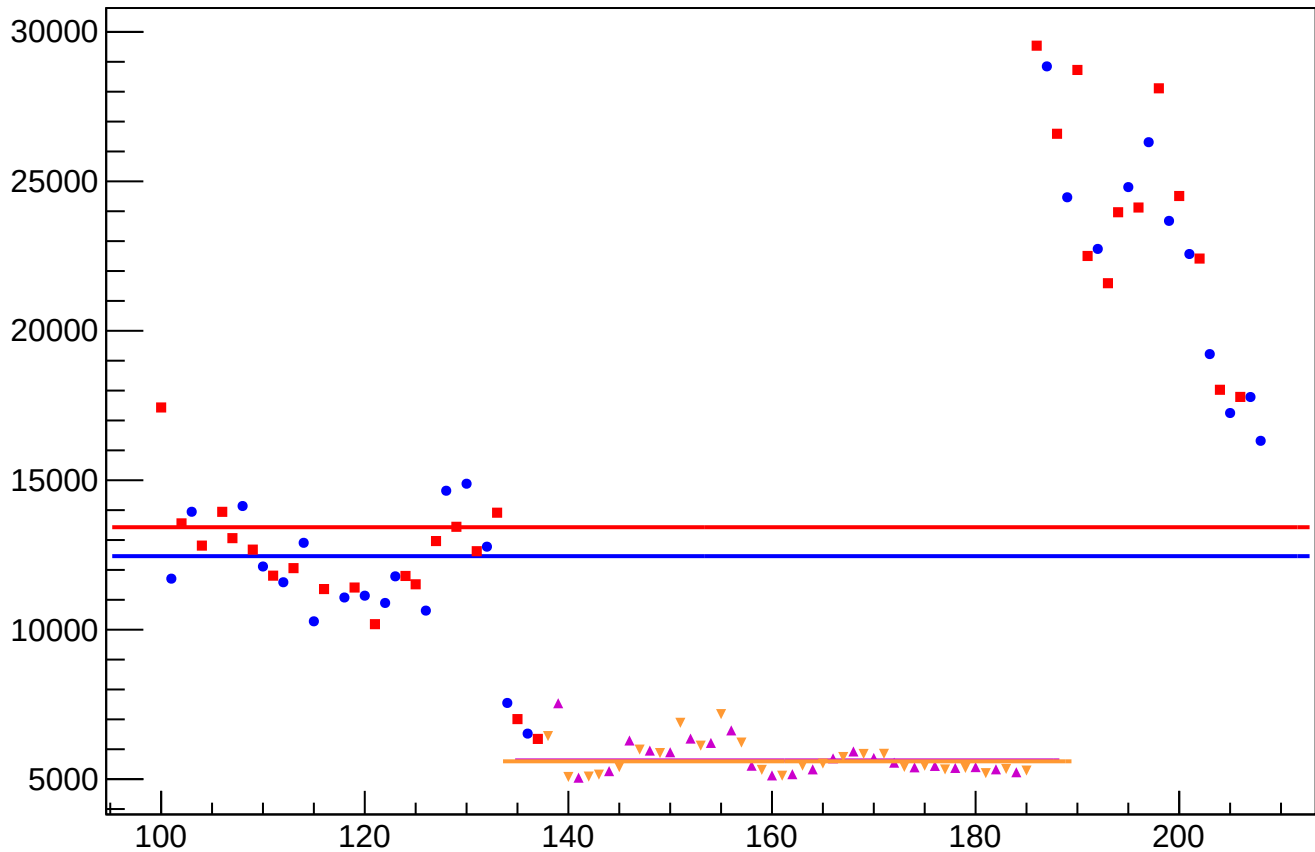
Right: 0.588 $\pm$ 2.591 χ^2/NDF : 65.6/58

In: 1.130 $\pm$ 1.266 χ^2/NDF : 68.7/50

Out: 4.682 $\pm$ 1.237 χ^2/NDF : 91.3/55

All: 2.948 $\pm$ 0.885 χ^2/NDF : 164.0/106

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12460.459 $\pm$ 2.538 χ^2 /NDF: 4430063.8/27

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13428.564 $\pm$ 2.648 χ^2 /NDF: 4377736.7/30

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

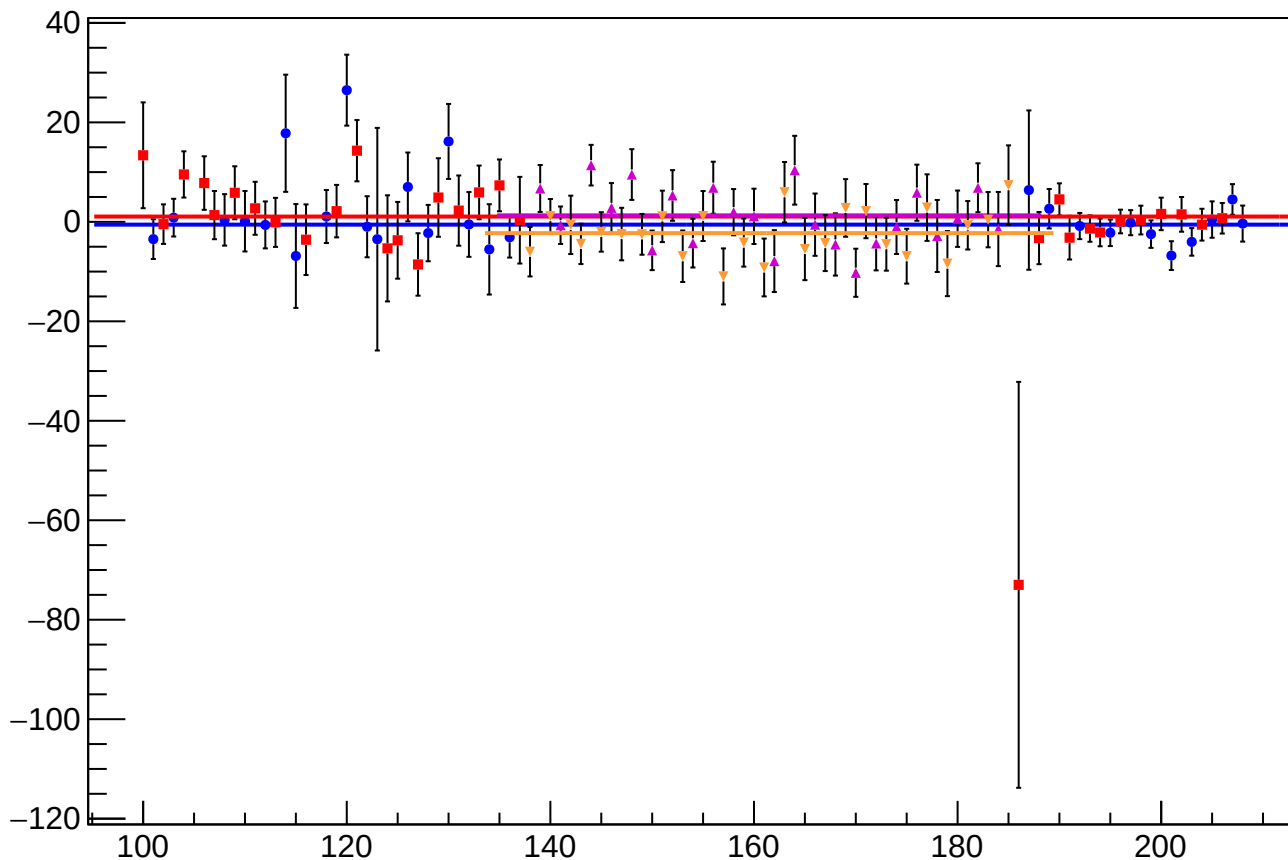
Right: 12923.983 $\pm$ 1.832 χ^2 /NDF: 8877475.0/58

In: 6477.644 $\pm$ 0.895 χ^2 /NDF: 11056948.1/50

Out: 6450.615 $\pm$ 0.874 χ^2 /NDF: 12457020.9/55

All: 6463.812 $\pm$ 0.626 χ^2 /NDF: 23514435.4/105

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.557 $\pm$ 0.778 χ^2/NDF : 35.6/27

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.064 $\pm$ 0.769 χ^2/NDF : 26.8/30

Left In: 1.305 $\pm$ 1.077 χ^2/NDF : 30.8/22

Left: -0.562 $\pm$ 0.744 χ^2/NDF : 51.9/47

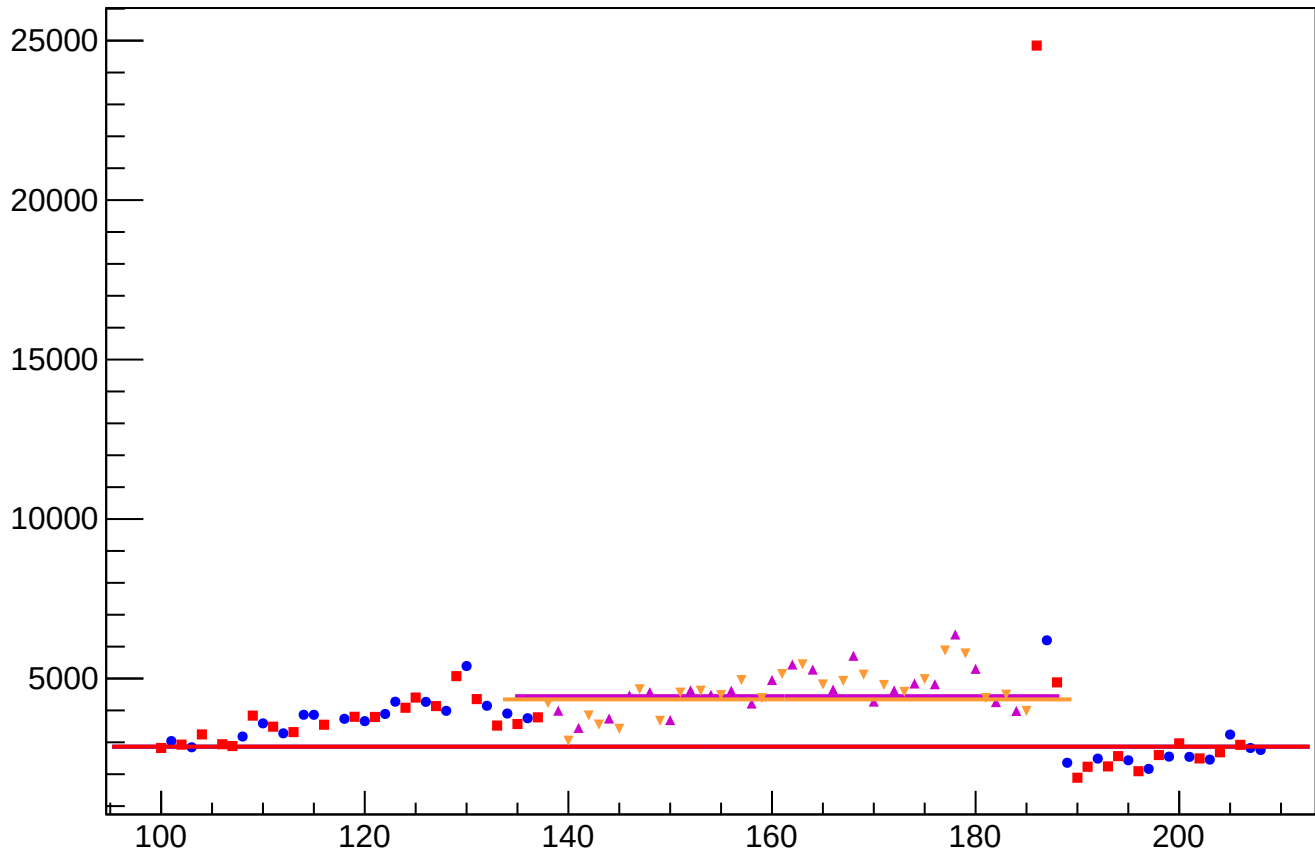
Right: 0.264 $\pm$ 0.547 χ^2/NDF : 64.6/58

In: 0.081 $\pm$ 0.631 χ^2/NDF : 68.4/50

Out: -0.128 $\pm$ 0.616 χ^2/NDF : 48.9/55

All: -0.026 $\pm$ 0.441 χ^2/NDF : 117.3/106

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2863.250+/-0.550 χ^2/NDF : 1295757.6/27

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2864.487+/-0.544 χ^2/NDF : 2264459.1/30

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

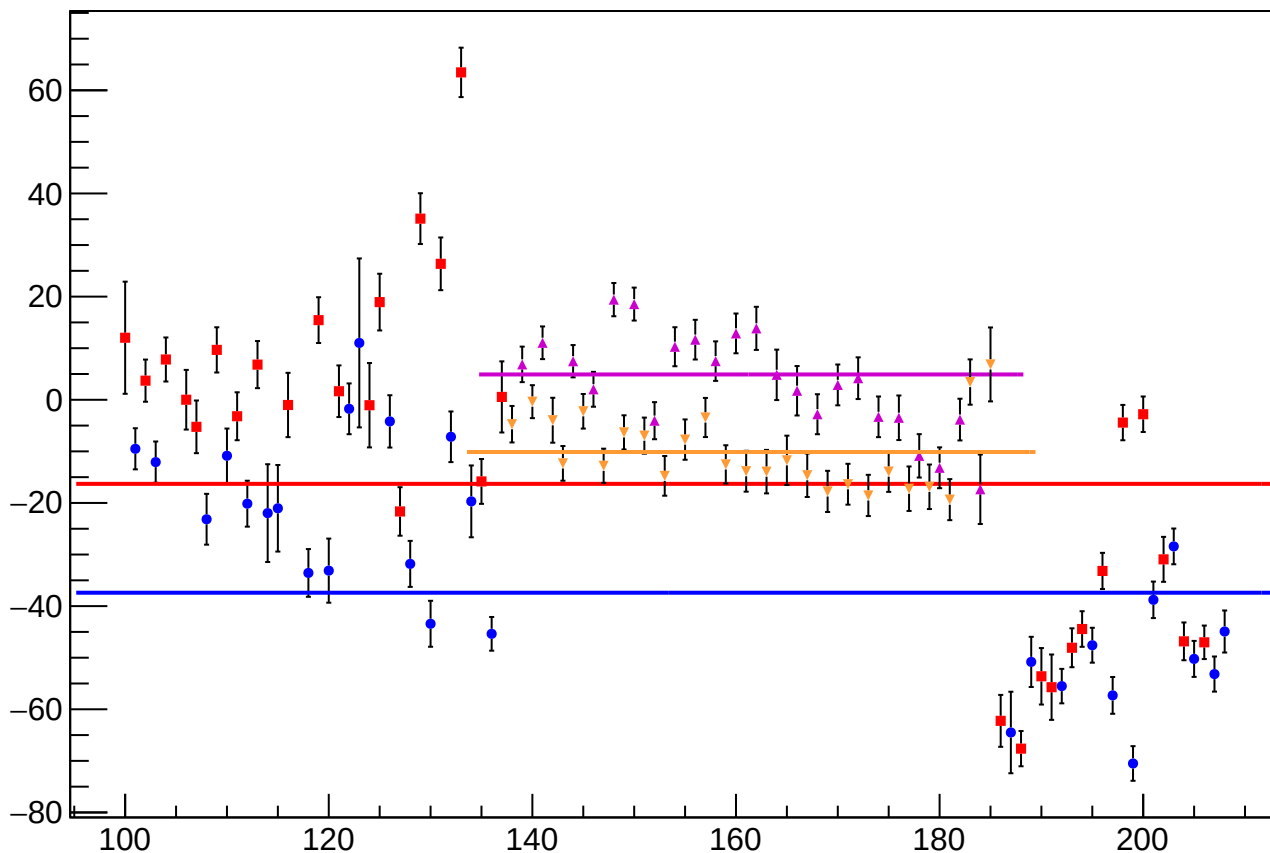
Right: 2863.876+/-0.387 χ^2/NDF : 3560219.2/58

In: 3405.983+/-0.446 χ^2/NDF : 4837343.7/50

Out: 3394.558+/-0.436 χ^2/NDF : 5922478.2/55

All: 3400.135+/-0.312 χ^2/NDF : 10760157.9/112

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.402 ± 0.820 χ^2/NDF : 534.7/27

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -16.298 ± 0.802 χ^2/NDF : 1474.9/30

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

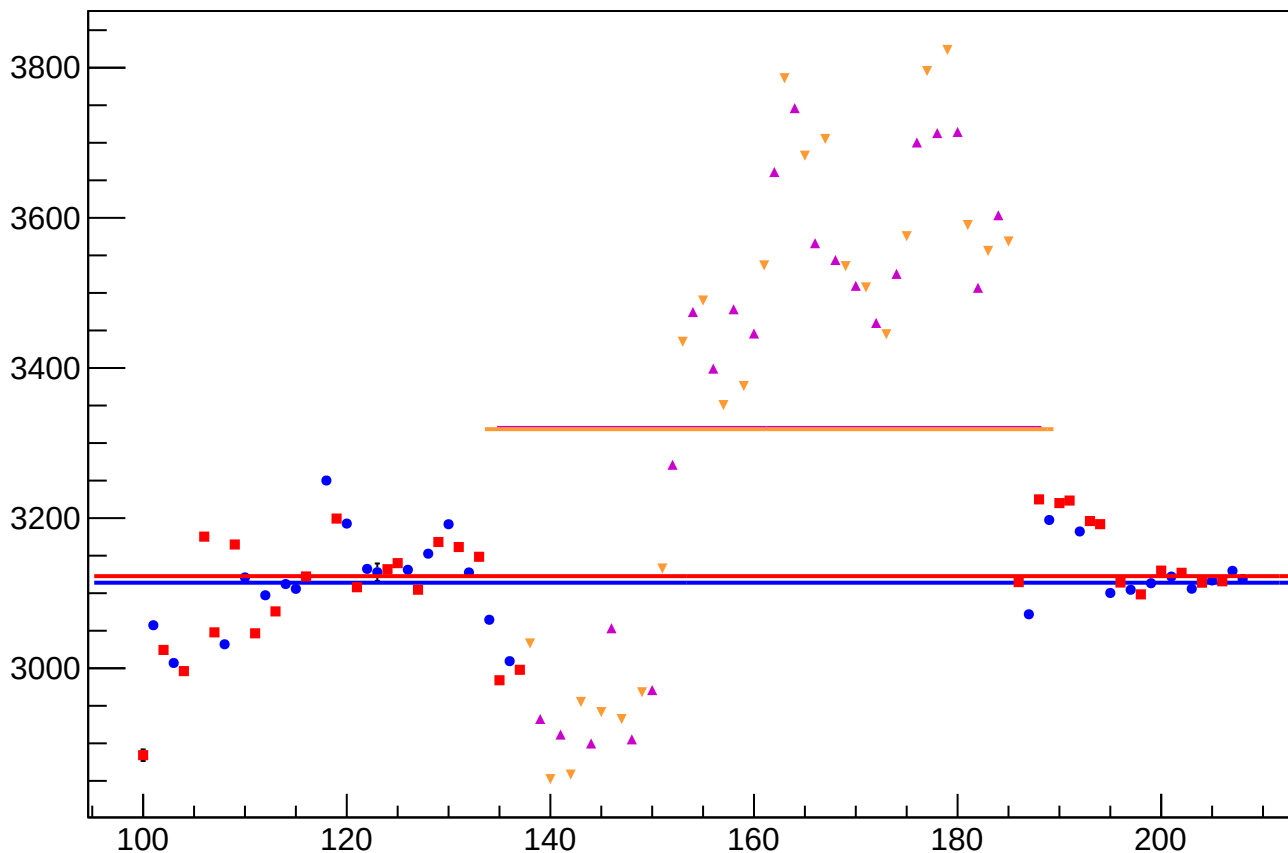
Right: -26.609 ± 0.573 χ^2/NDF : 2348.1/58

In: -15.638 ± 0.572 χ^2/NDF : 2031.0/50

Out: -13.108 ± 0.557 χ^2/NDF : 1573.5/55

All: -14.341 ± 0.399 χ^2/NDF : 3614.5/106

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.975 ± 0.580 $\chi^2/\text{NDF}: 9050.3/27$

Left Out: 3318.506 ± 0.548 $\chi^2/\text{NDF}: 337694.2/24$

Right Out: 3122.711 ± 0.567 $\chi^2/\text{NDF}: 13750.9/30$

Left In: 3320.170 ± 0.564 $\chi^2/\text{NDF}: 287634.9/22$

Left: 3319.315 ± 0.393 $\chi^2/\text{NDF}: 625333.6/47$

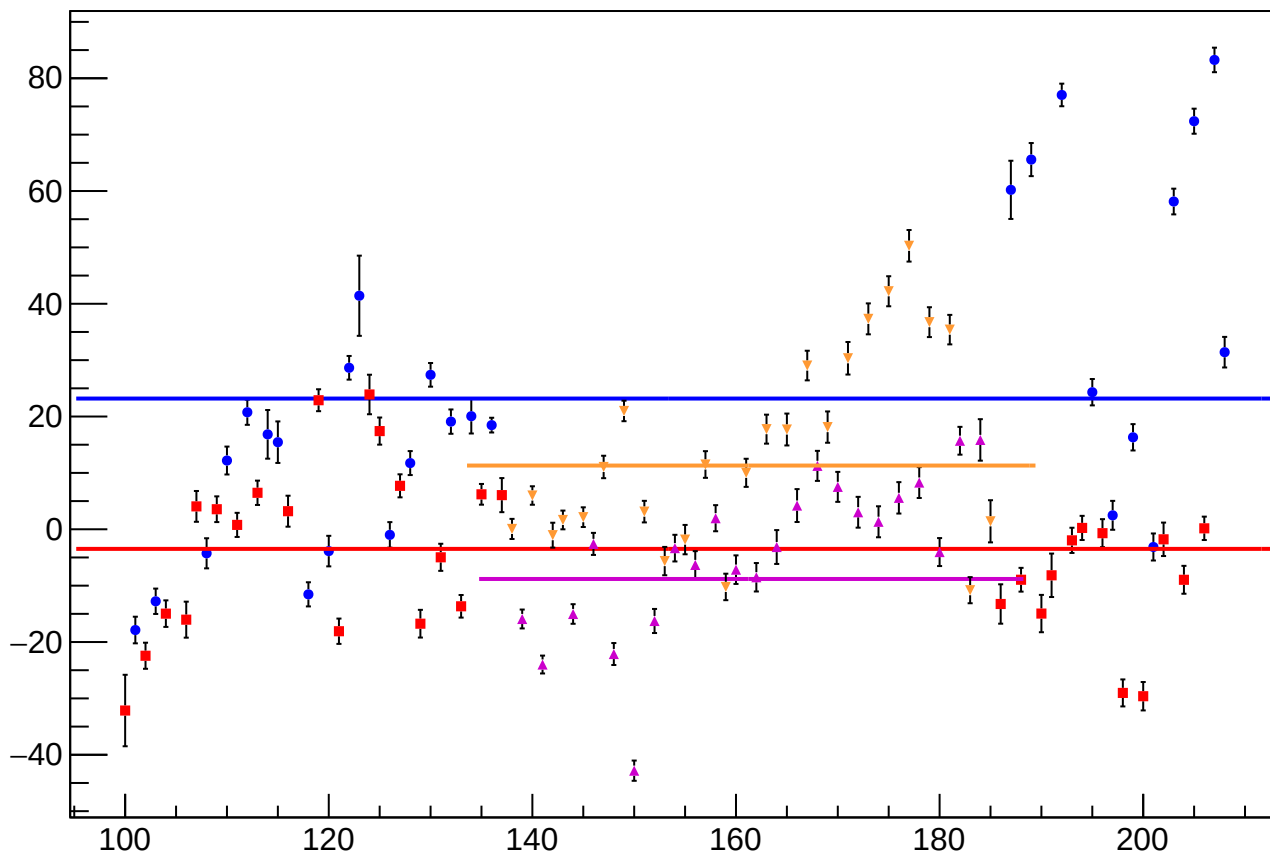
Right: 3118.443 ± 0.405 $\chi^2/\text{NDF}: 22917.2/58$

In: 3220.033 ± 0.404 $\chi^2/\text{NDF}: 361675.3/50$

Out: 3223.878 ± 0.394 $\chi^2/\text{NDF}: 413067.1/55$

All: 3222.004 ± 0.282 $\chi^2/\text{NDF}: 774788.8/106$

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.187 ± 0.447 $\chi^2/\text{NDF}: 3905.1/27$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -3.478 ± 0.438 $\chi^2/\text{NDF}: 923.1/30$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

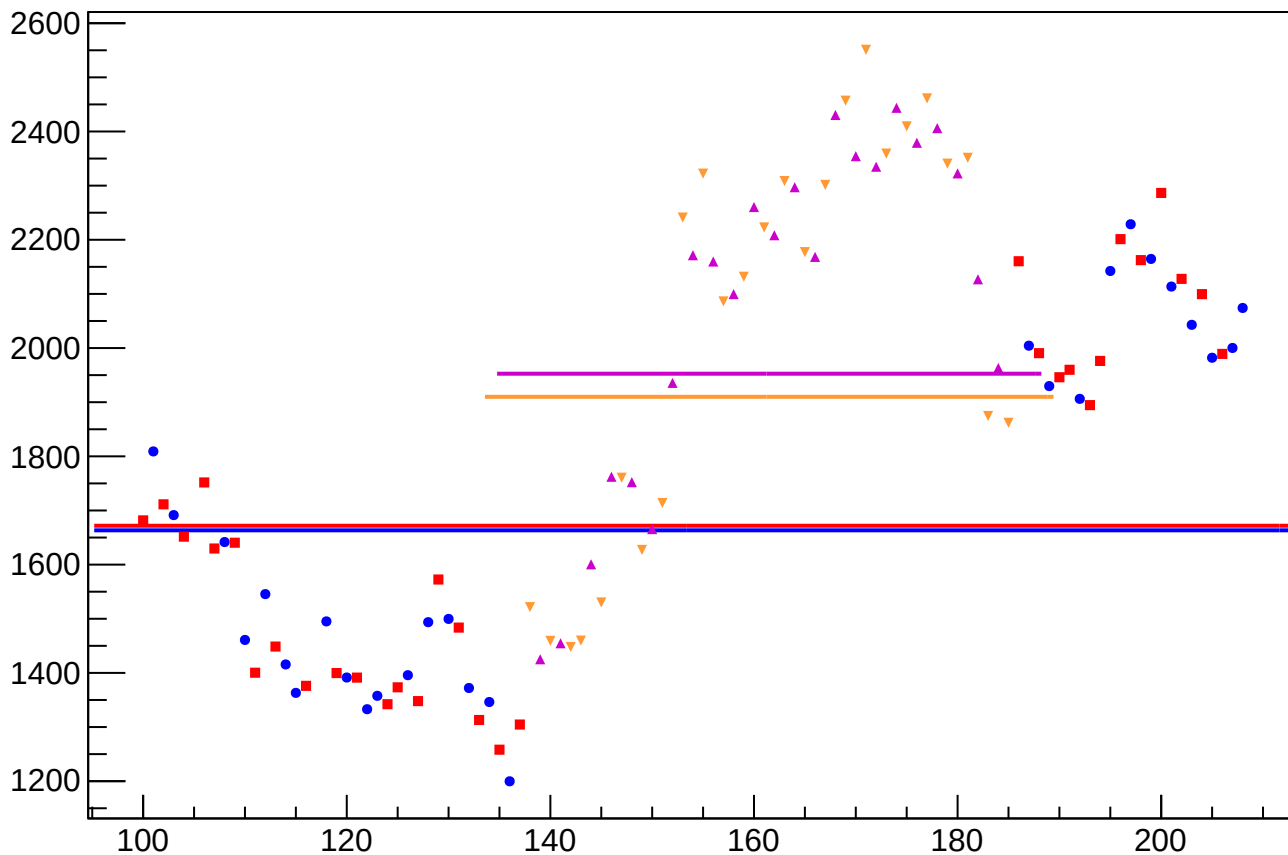
Right: 9.565 ± 0.313 $\chi^2/\text{NDF}: 6642.7/58$

In: 8.154 ± 0.326 $\chi^2/\text{NDF}: 7250.4/50$

Out: 3.648 ± 0.315 $\chi^2/\text{NDF}: 2617.0/55$

All: 5.825 ± 0.226 $\chi^2/\text{NDF}: 9966.2/106$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1663.333 $\pm$ 0.316 χ^2 /NDF: 1083132.5/27

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1671.816 $\pm$ 0.310 χ^2 /NDF: 1076584.3/30

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

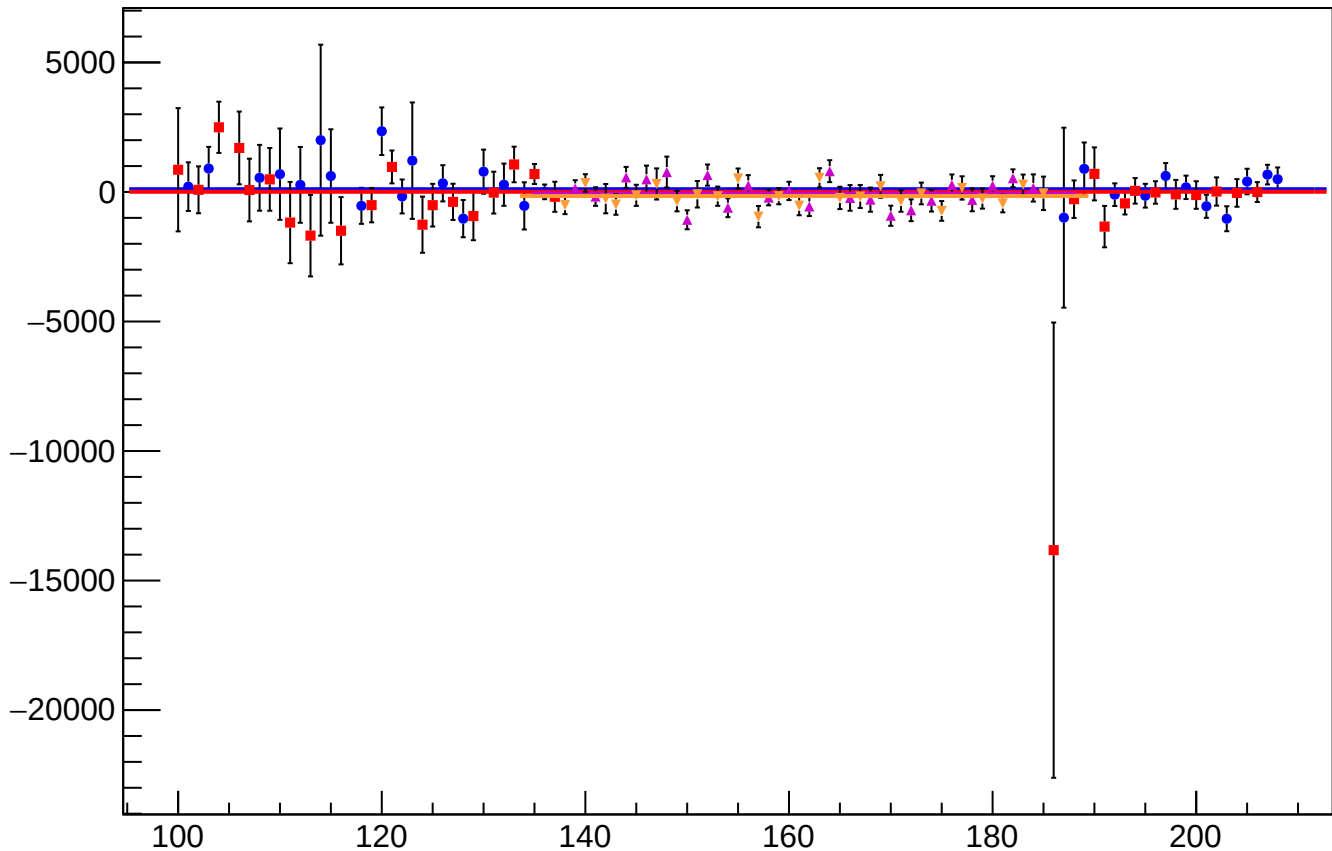
Right: 1667.667 $\pm$ 0.221 χ^2 /NDF: 2160084.1/58

In: 1799.234 $\pm$ 0.230 χ^2 /NDF:2541255.1/50

Out: 1786.604 $\pm$ 0.223 χ^2 /NDF:2761299.8/55

All: 1792.708 $\pm$ 0.160 χ^2 /NDF: 5304107.8/10

asym_sam1_mean vs Slug, Sign Corrected



Right In: 106.744+/-114.744 χ^2/NDF : 26.0/27

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 8.792+/-120.346 χ^2/NDF : 29.9/30

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

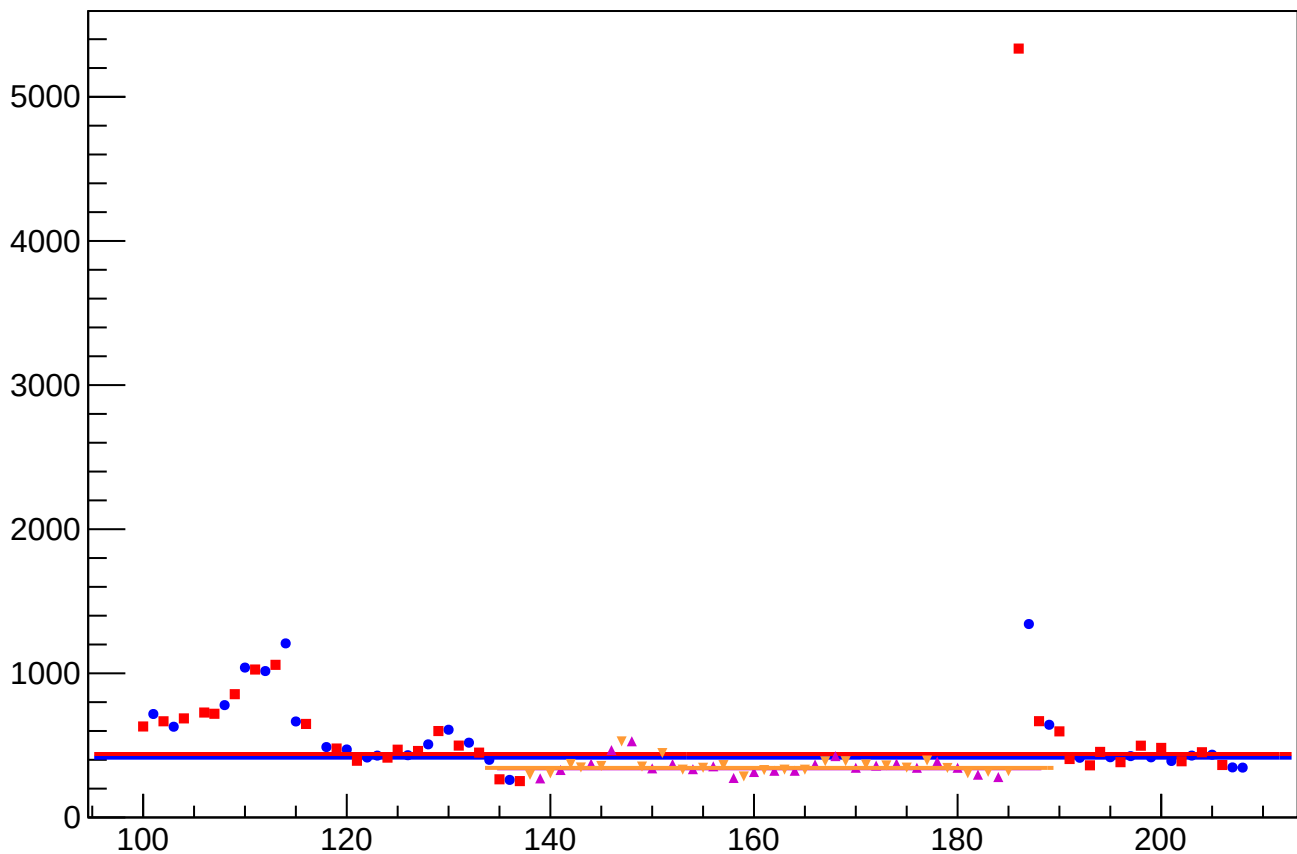
Right: 60.101+/-83.046 χ^2/NDF : 56.2/58

In: -2.397+/-67.029 χ^2/NDF :65.9/50

Out: -105.657+/-67.080 χ^2/NDF :53.2/55

All: -53.987+/-47.415 χ^2/NDF : 120.4/106

asym_sam1_rms vs Slug, Sign Corrected



Right In: 414.900 $\pm$ 0.081 χ^2 /NDF: 2383076.0/27

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 440.282 $\pm$ 0.085 χ^2 /NDF: 3146716.2/30

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

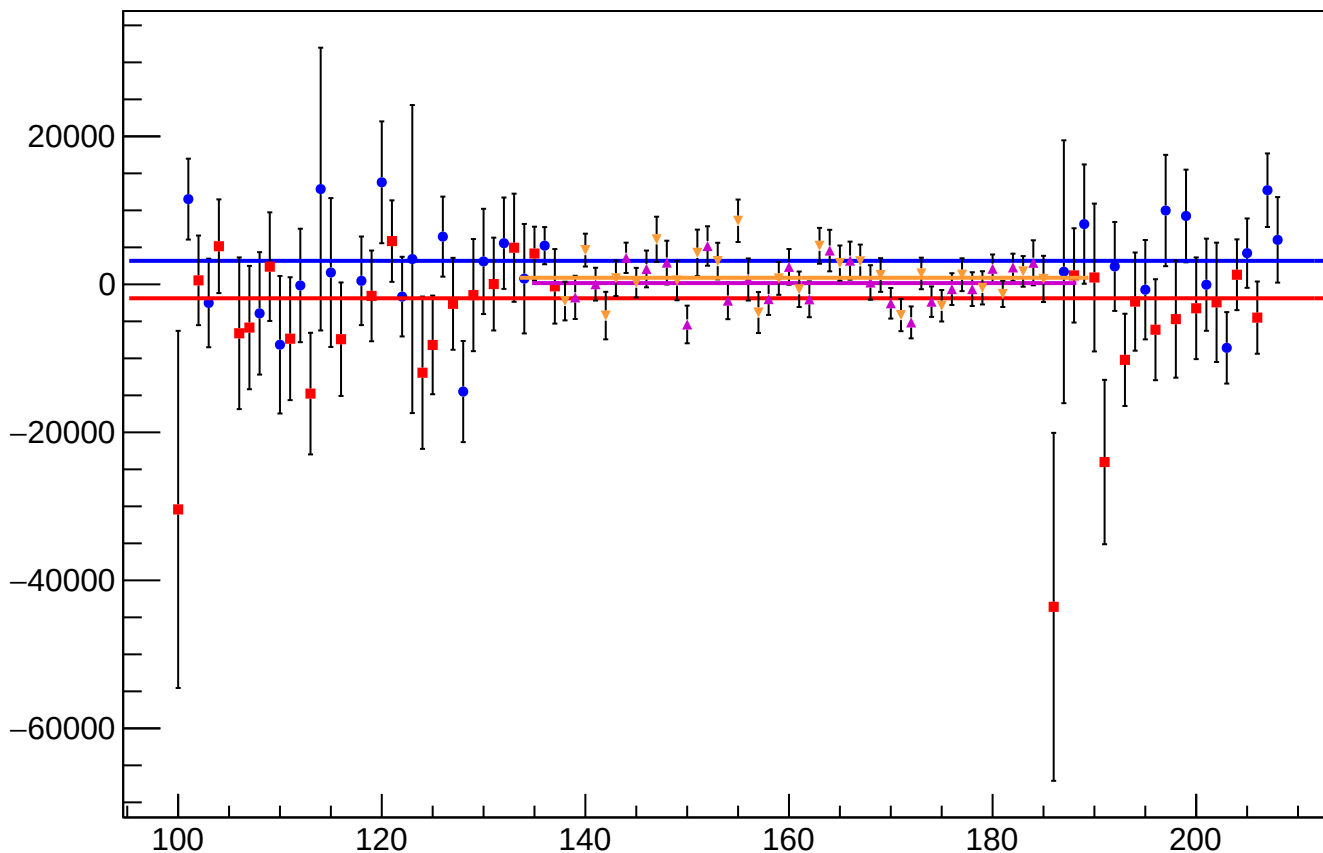
Right: 426.987 $\pm$ 0.059 χ^2 /NDF: 5576394.5/58

In: 366.136 $\pm$ 0.047 χ^2 /NDF: 3656074.8/50

Out: 373.781 $\pm$ 0.047 χ^2 /NDF: 4572109.8/55

All: 369.956 $\pm$ 0.034 χ^2 /NDF: 8241181.4/106

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3177.912 $\pm$ 1138.554 χ^2/NDF : 29.3/27

Left Out: 890.395 $\pm$ 473.262 χ^2/NDF : 38.0/24

Right Out: -1879.719 $\pm$ 1204.040 χ^2/NDF : 25.2/30

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

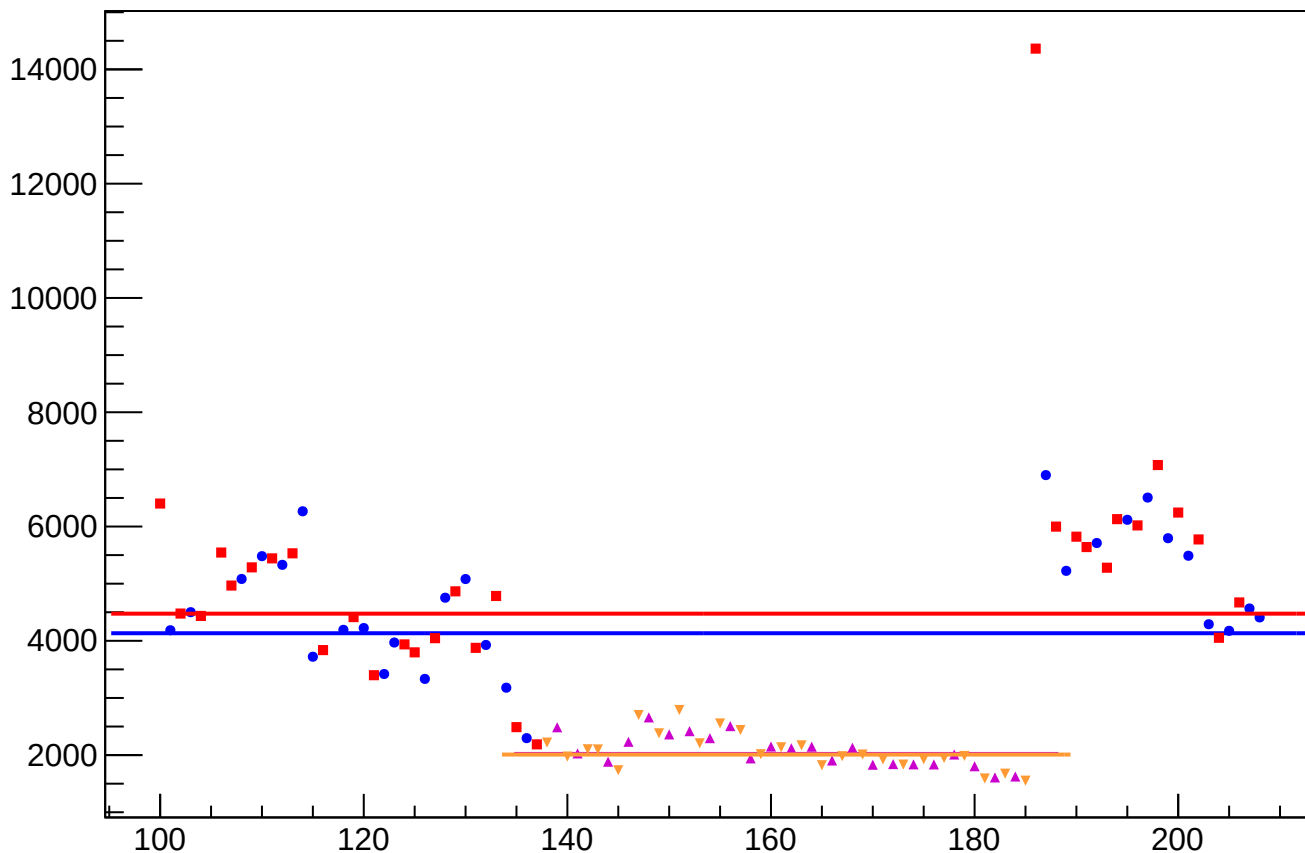
Right: 790.370 $\pm$ 827.261 χ^2/NDF : 63.7/58

In: 638.952 $\pm$ 448.588 χ^2/NDF : 68.3/50

Out: 519.692 $\pm$ 440.459 χ^2/NDF : 67.7/55

All: 578.232 $\pm$ 314.286 χ^2/NDF : 136.1/106

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4132.688 $\pm$ 0.805 χ^2 /NDF: 2244140.6/27

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4475.348 $\pm$ 0.851 χ^2 /NDF: 2496333.9/30

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

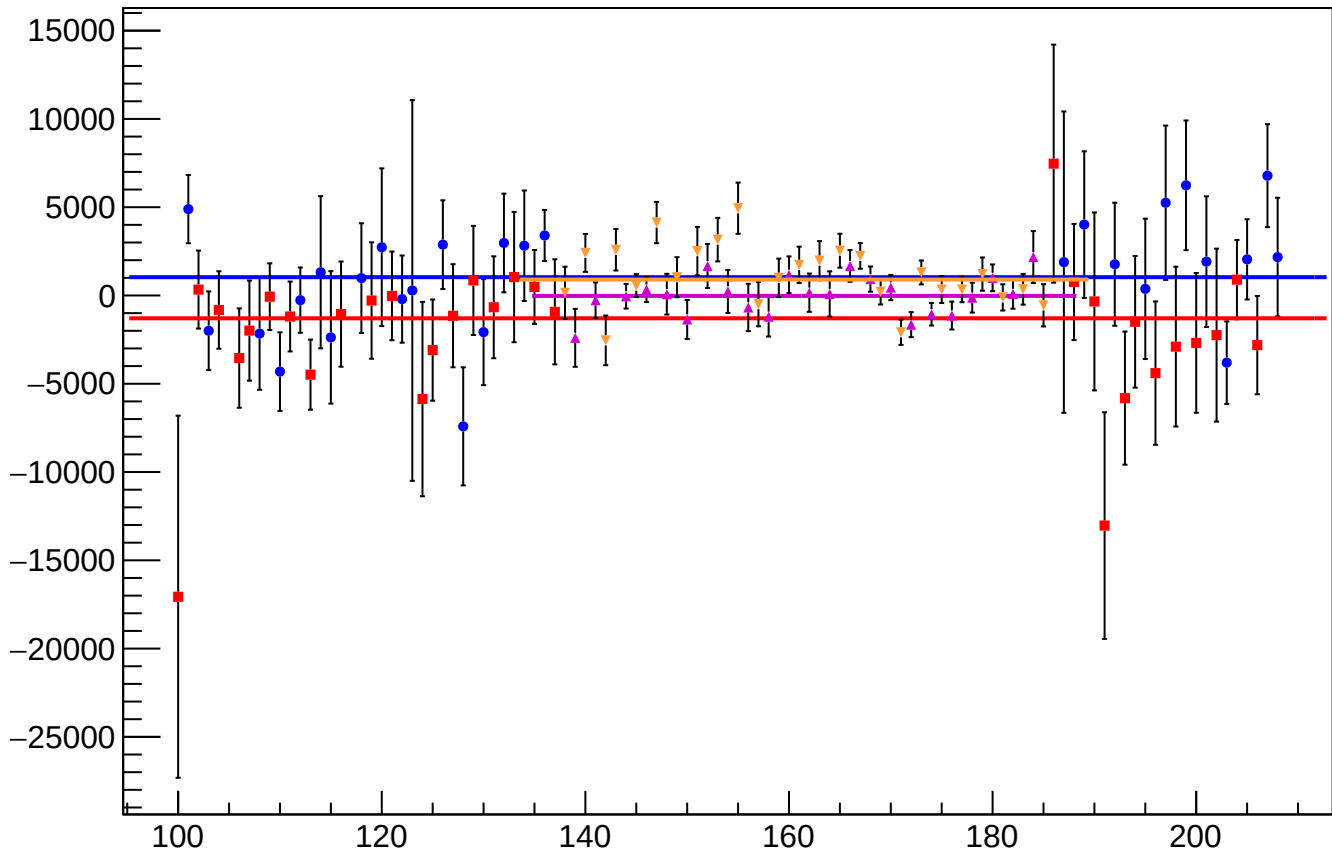
Right: 4294.447 $\pm$ 0.585 χ^2 /NDF: 4825991.7/58

In: 2348.271 $\pm$ 0.317 χ^2 /NDF: 8633024.1/50

Out: 2339.599 $\pm$ 0.311 χ^2 /NDF: 10471412.3/55

All: 2343.856 $\pm$ 0.222 χ^2 /NDF: 19104816.9/112

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1036.121 $\pm$ 528.497 χ^2 /NDF: 37.9/27

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF: 63.5/24

Right Out: -1291.836 $\pm$ 526.996 χ^2 /NDF: 18.8/30

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

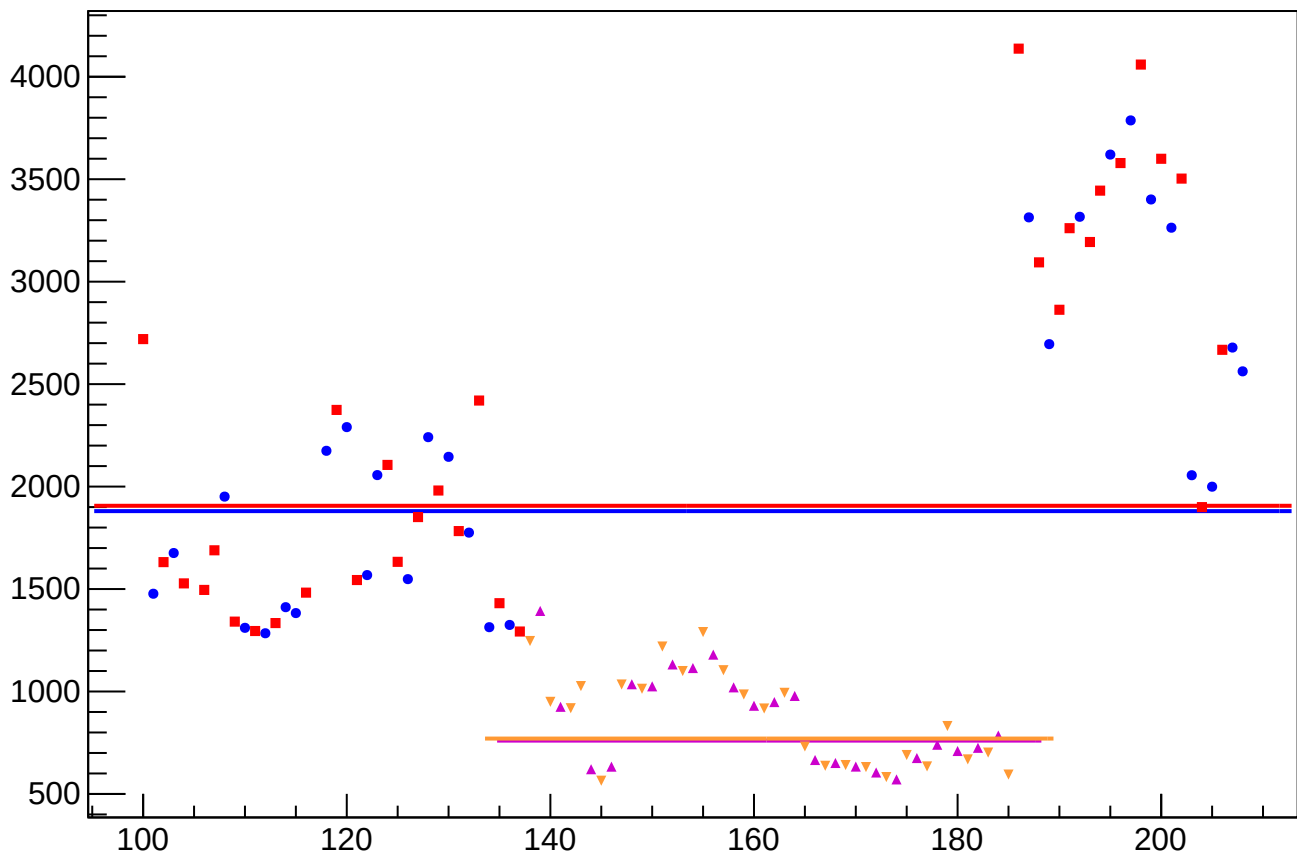
Right: -131.167 $\pm$ 373.172 χ^2 /NDF: 66.4/58

In: 95.651 $\pm$ 177.241 χ^2 /NDF: 69.7/50

Out: 659.417 $\pm$ 175.270 χ^2 /NDF: 97.7/55

All: 380.686 $\pm$ 124.626 χ^2 /NDF: 172.5/106

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1880.246+/-0.374 χ^2/NDF : 3115408.4/27

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1906.302+/-0.373 χ^2/NDF : 3804637.5/30

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

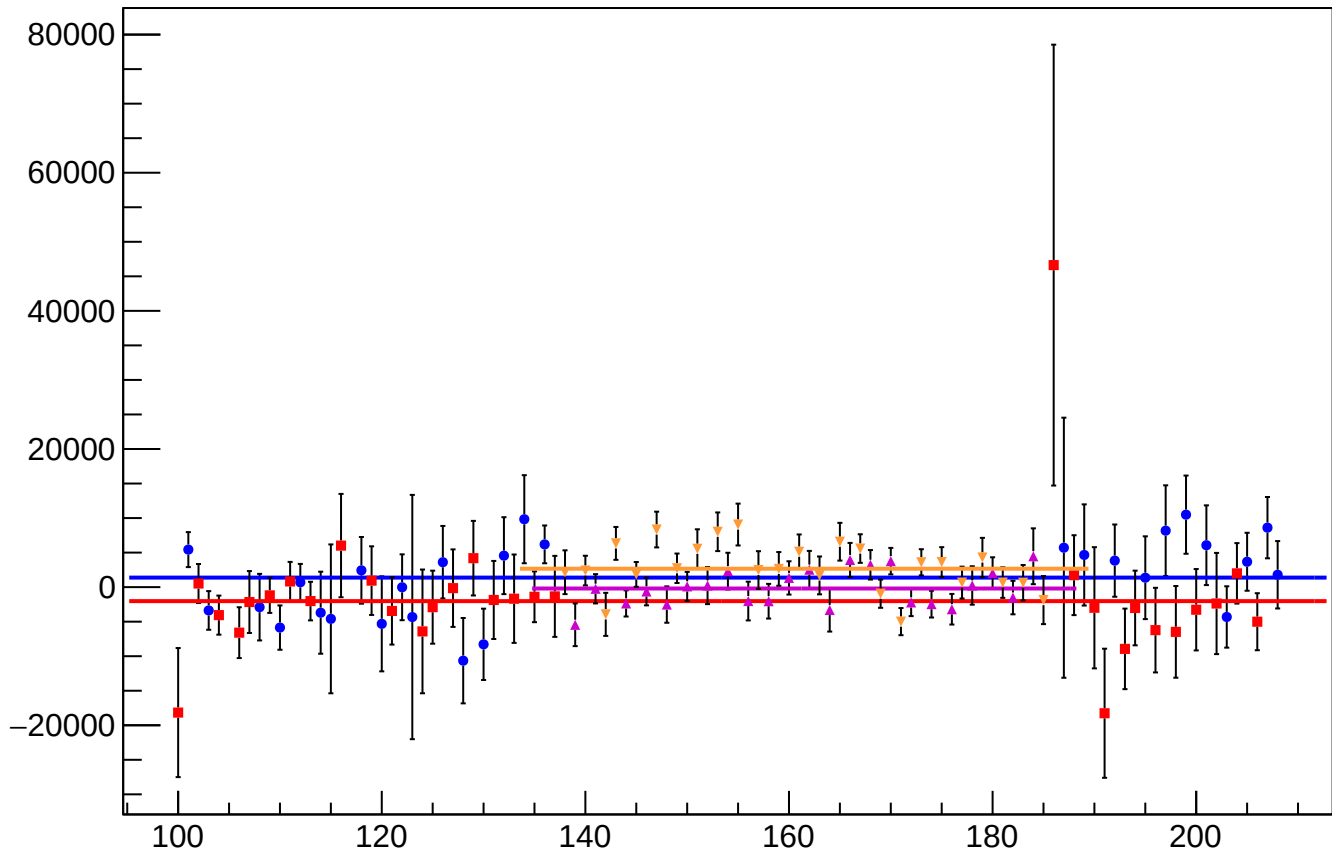
Right: 1893.311+/-0.264 χ^2/NDF : 6922483.5/58

In: 886.308+/-0.125 χ^2/NDF : 13072572.9/50

Out: 895.973+/-0.124 χ^2/NDF : 14357406.7/55

All: 891.195+/-0.088 χ^2/NDF : 27432986.1/100

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1378.992 $\pm$ 852.966 χ^2 /NDF: 35.7/27

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF:49.2/24

Right Out: -2026.135 $\pm$ 818.315 χ^2 /NDF: 19.9/30

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF:25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

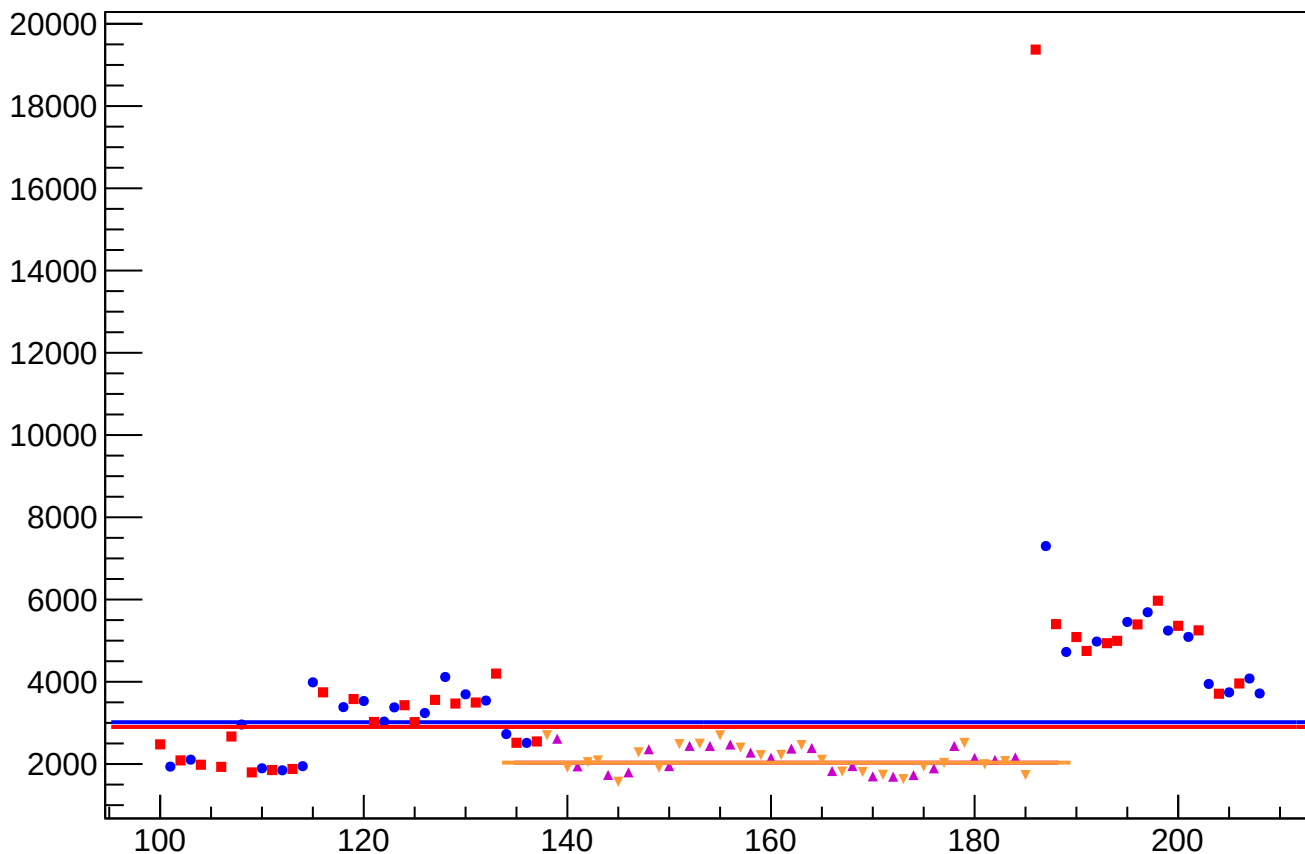
Right: -394.141 $\pm$ 590.506 χ^2 /NDF: 63.8/58

In: 194.765 $\pm$ 426.237 χ^2 /NDF:64.0/50

Out: 1465.404 $\pm$ 413.884 χ^2 /NDF:93.6/55

All: 848.765 $\pm$ 296.931 χ^2 /NDF: 162.1/106

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3016.402 $\pm$ 0.603 χ^2 /NDF: 3530831.1/27

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2901.253 $\pm$ 0.579 χ^2 /NDF: 4866409.6/30

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

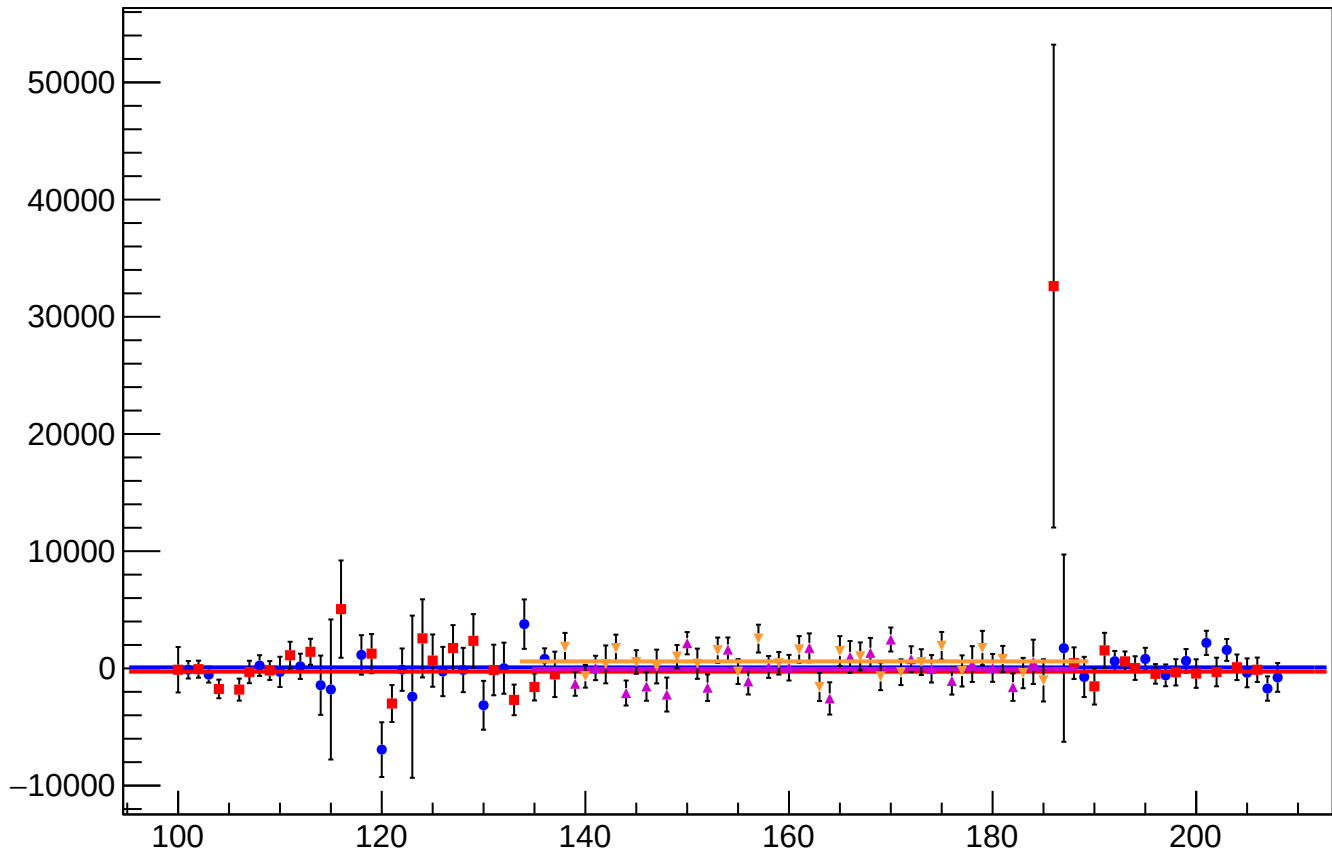
Right: 2956.441 $\pm$ 0.418 χ^2 /NDF: 8416220.6/58

In: 2278.308 $\pm$ 0.301 χ^2 /NDF: 6179597.8/50

Out: 2255.357 $\pm$ 0.293 χ^2 /NDF: 7364754.5/55

All: 2266.495 $\pm$ 0.210 χ^2 /NDF: 13547336.8/105

asym_sam5_mean vs Slug, Sign Corrected



Right In: 85.575 ± 227.085 χ^2/NDF : 29.6/27

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -277.901 ± 215.253 χ^2/NDF : 29.8/30

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

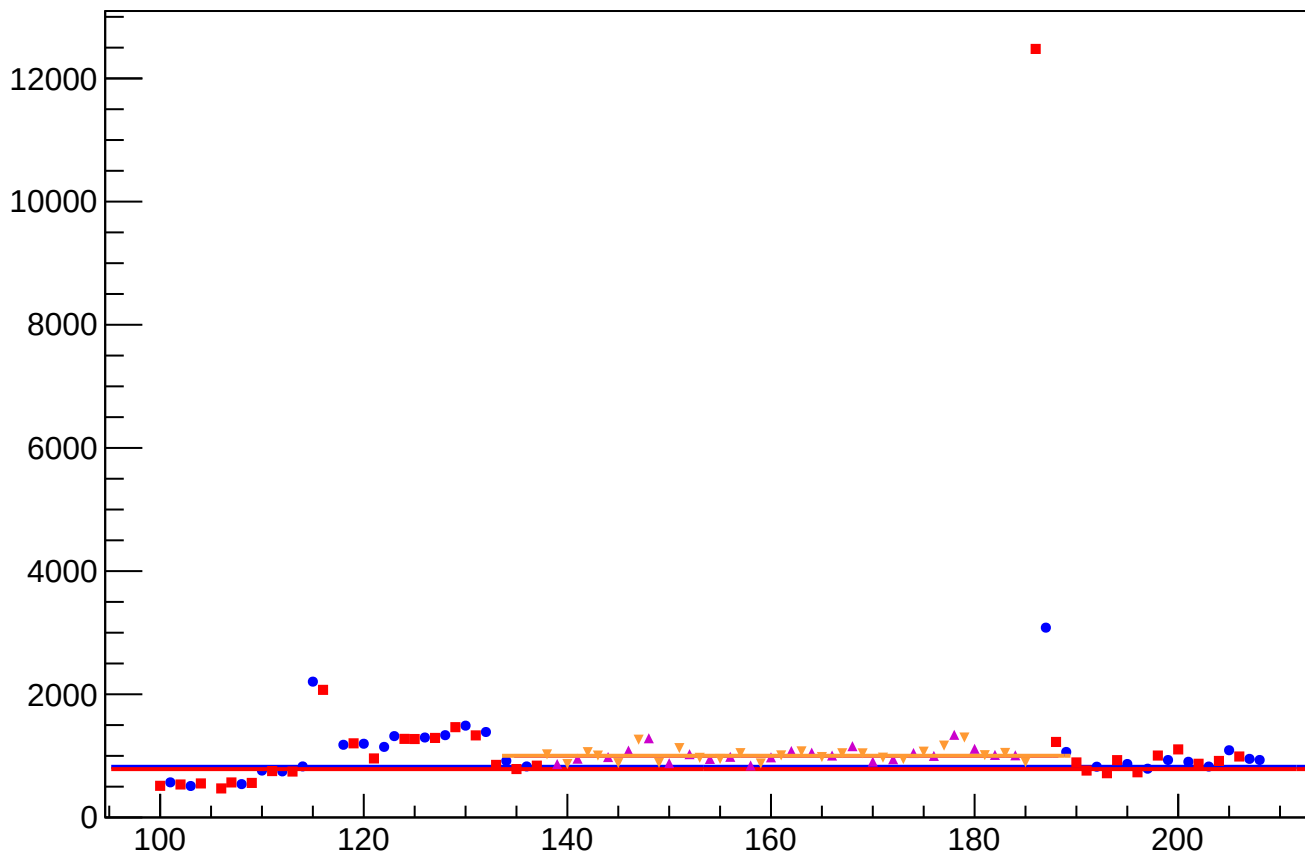
Right: -105.879 ± 156.222 χ^2/NDF : 60.8/58

In: 25.733 ± 165.212 χ^2/NDF : 66.1/50

Out: 122.682 ± 158.720 χ^2/NDF : 55.9/55

All: 76.150 ± 114.458 χ^2/NDF : 122.2/106

asym_sam5_rms vs Slug, Sign Corrected



Right In: 822.438+/-0.161 χ^2/NDF : 2168498.6/27

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 784.840+/-0.152 χ^2/NDF : 3122946.7/30

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

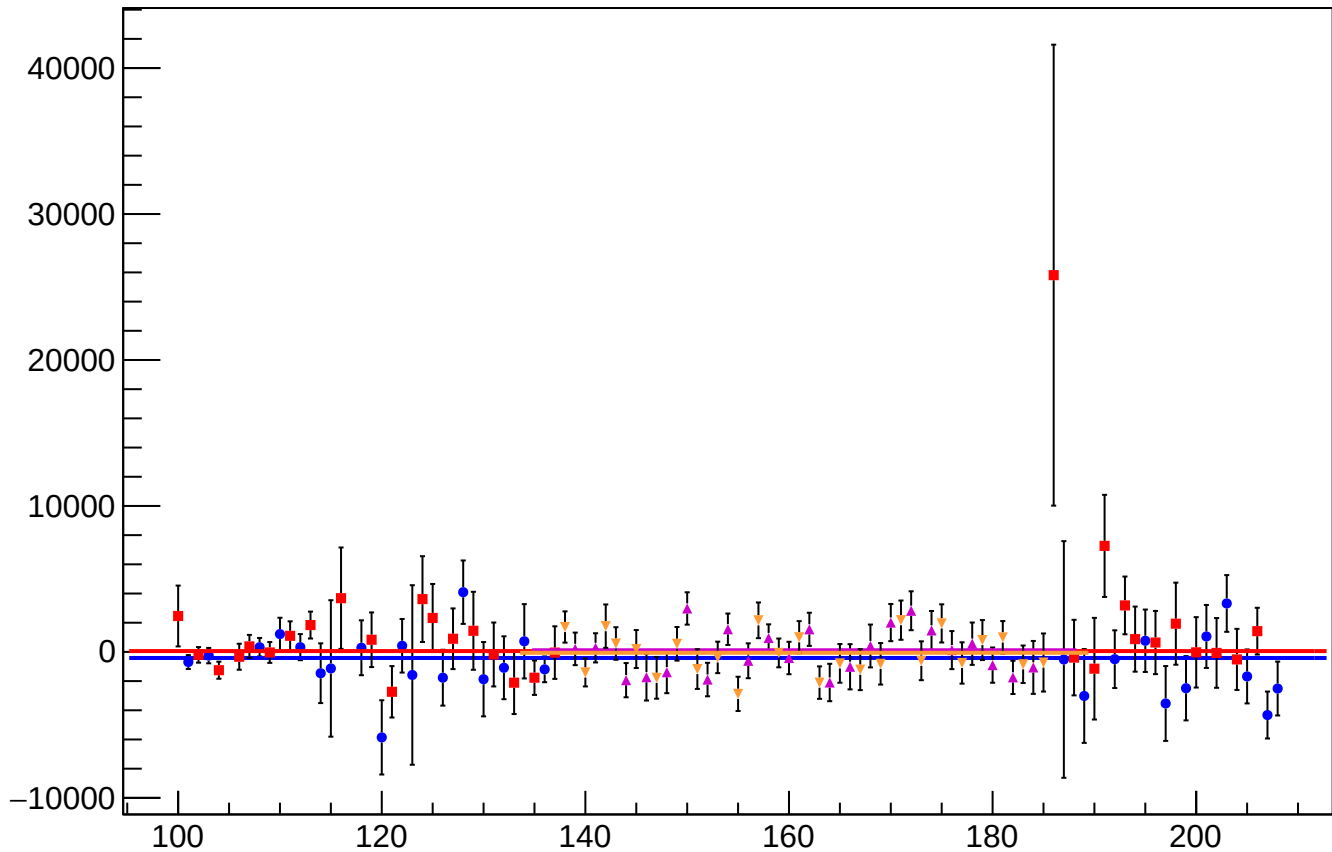
Right: 802.634+/-0.110 χ^2/NDF : 5320323.6/58

In: 905.098+/-0.117 χ^2/NDF : 3136145.4/50

Out: 883.688+/-0.112 χ^2/NDF : 4417560.1/55

All: 893.964+/-0.081 χ^2/NDF : 7571173.2/106

asym_sam6_mean vs Slug, Sign Corrected



Right In: -415.761 ± 233.694 χ^2/NDF : 31.2/27

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 56.879 ± 232.022 χ^2/NDF : 32.9/30

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

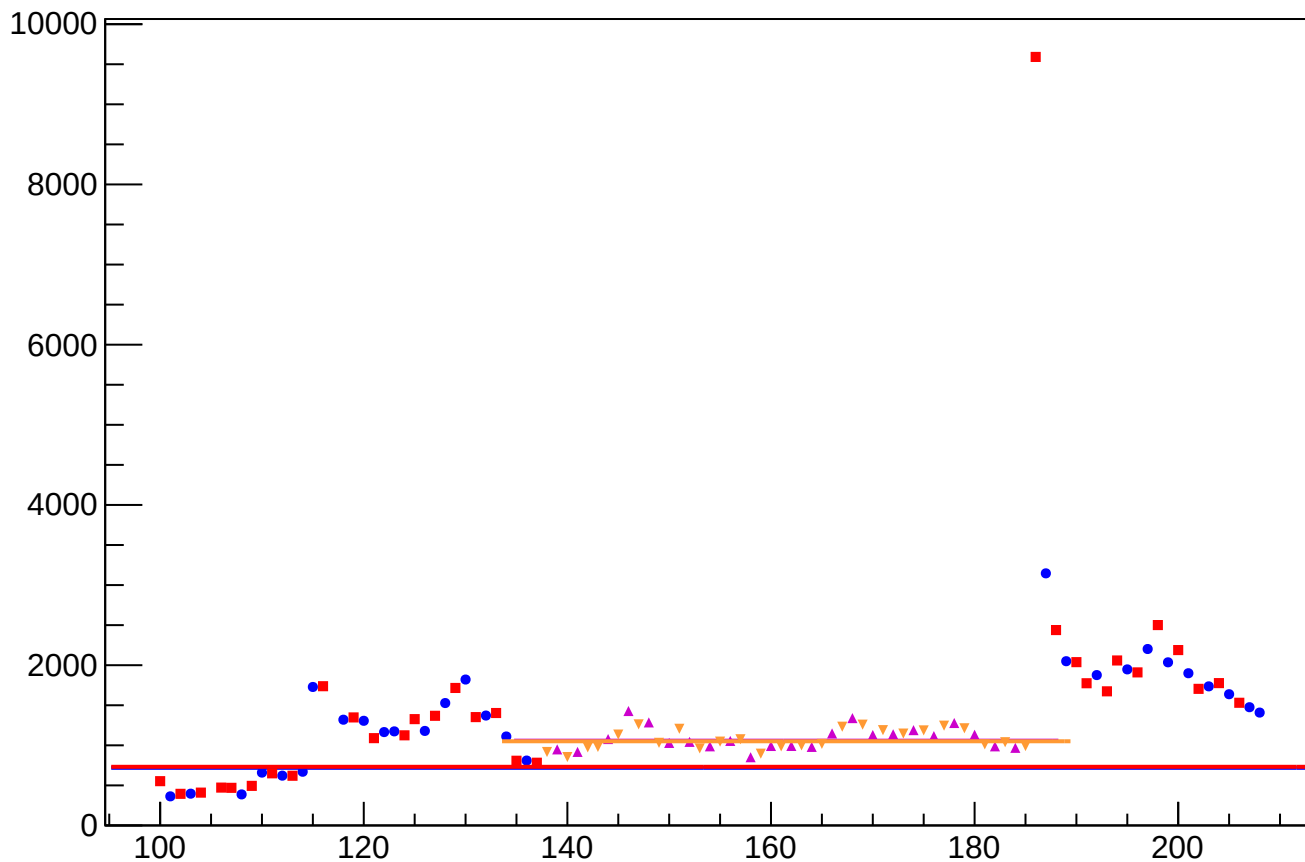
Right: -177.744 ± 164.653 χ^2/NDF : 66.2/58

In: -175.084 ± 172.414 χ^2/NDF : 68.4/50

Out: 2.054 ± 168.952 χ^2/NDF : 64.0/55

All: -84.719 ± 120.672 χ^2/NDF : 132.9/106

asym_sam6_rms vs Slug, Sign Corrected



Right In: 719.321+/-0.165 χ^2/NDF : 9619094.4/27

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 732.052+/-0.164 χ^2/NDF : 10093820.8/30

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

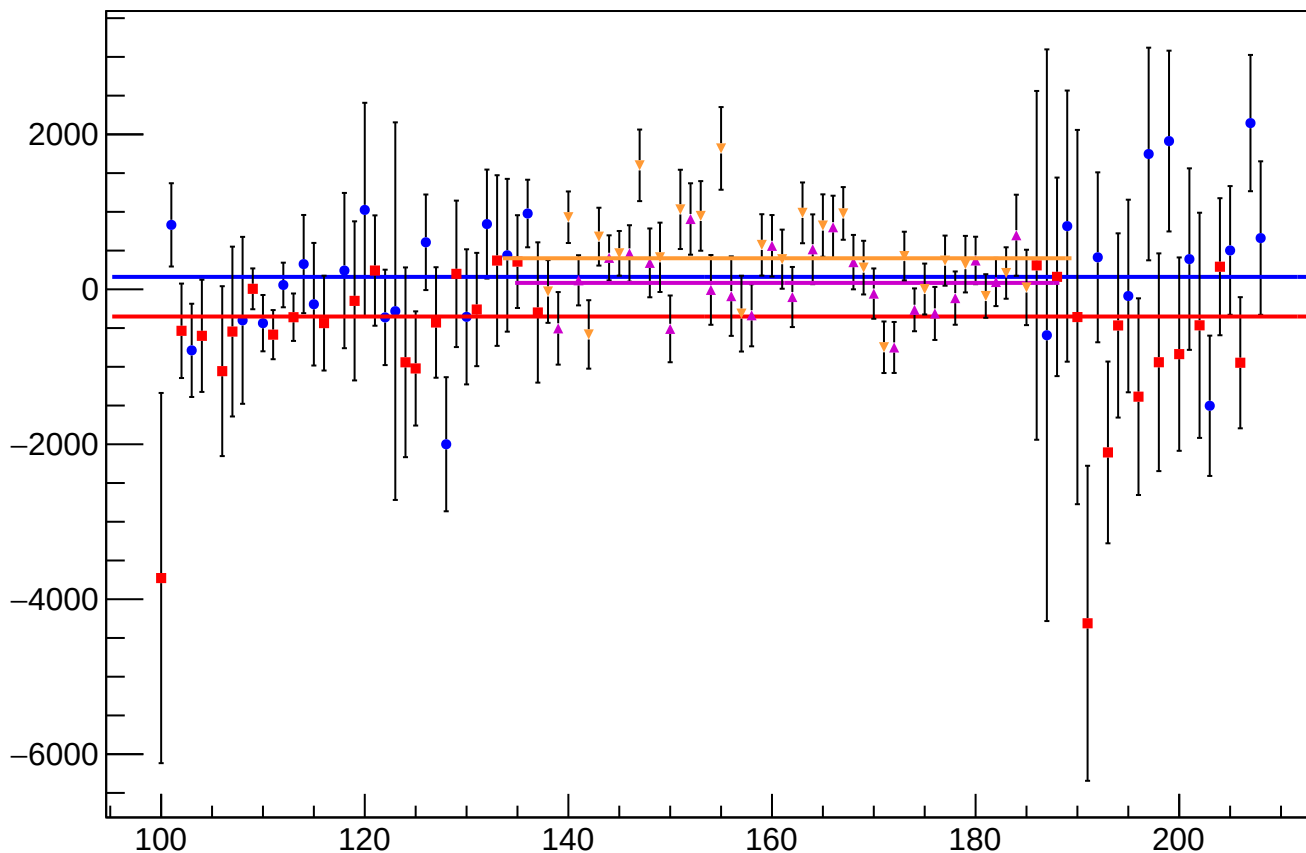
Right: 725.733+/-0.116 χ^2/NDF : 19715904.3/58

In: 873.698+/-0.122 χ^2/NDF : 12062925.2/50

Out: 881.718+/-0.119 χ^2/NDF : 12348440.5/55

All: 877.790+/-0.085 χ^2/NDF : 24413573.4/100

asym_sam7_mean vs Slug, Sign Corrected



Right In: 160.537 $\pm$ 131.794 χ^2/NDF : 33.0/27

Left Out: 400.988 $\pm$ 74.546 χ^2/NDF : 52.1/24

Right Out: -350.980 $\pm$ 122.250 χ^2/NDF : 17.4/30

Left In: 82.890 $\pm$ 76.904 χ^2/NDF : 29.0/22

Left: 246.889 $\pm$ 53.526 χ^2/NDF : 89.9/47

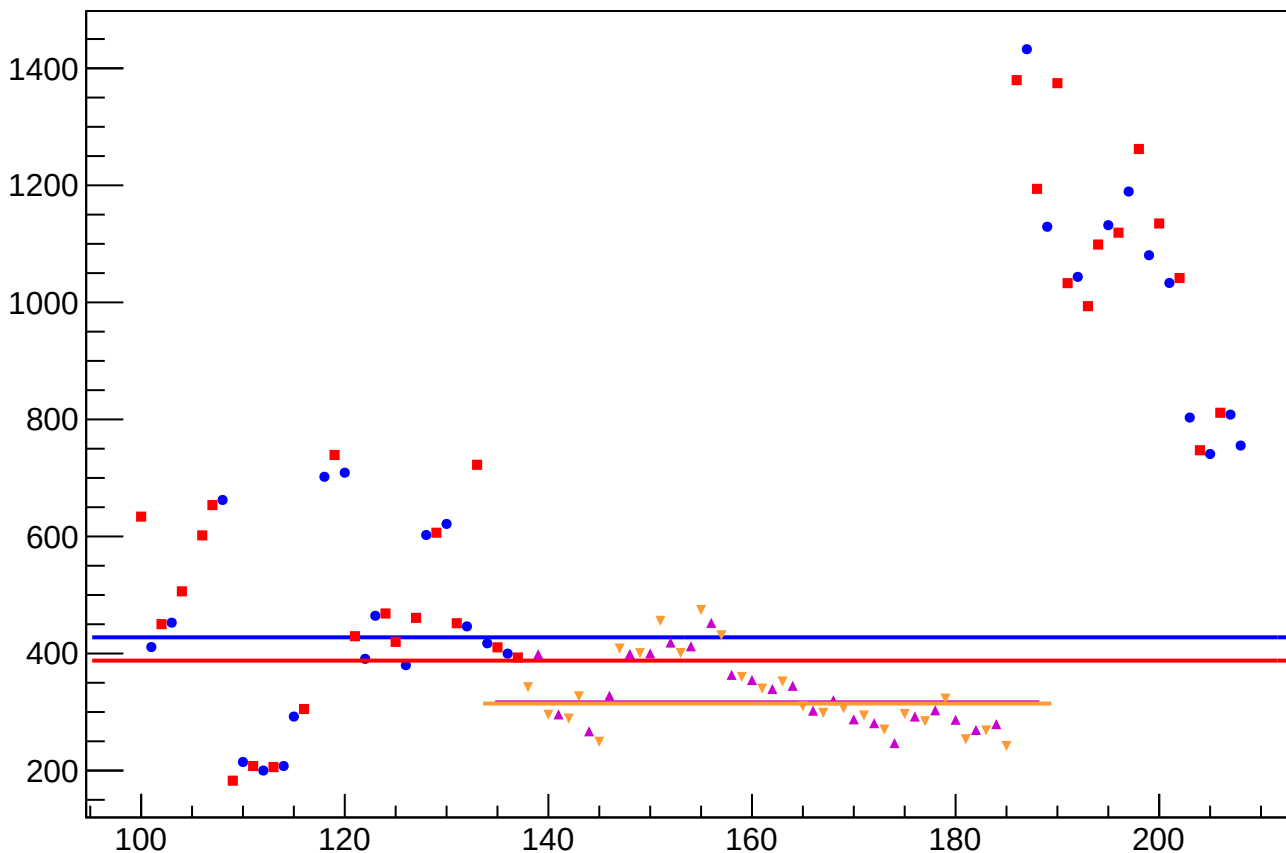
Right: -114.412 $\pm$ 89.628 χ^2/NDF : 58.5/58

In: 102.612 $\pm$ 66.423 χ^2/NDF : 62.3/50

Out: 197.165 $\pm$ 63.647 χ^2/NDF : 97.0/55

All: 151.906 $\pm$ 45.955 χ^2/NDF : 160.3/106

asym_sam7_rms vs Slug, Sign Corrected



Right In: 427.667 $\pm$ 0.093 χ^2 /NDF: 7520105.3/27

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 387.888 $\pm$ 0.086 χ^2 /NDF: 9827545.8/30

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

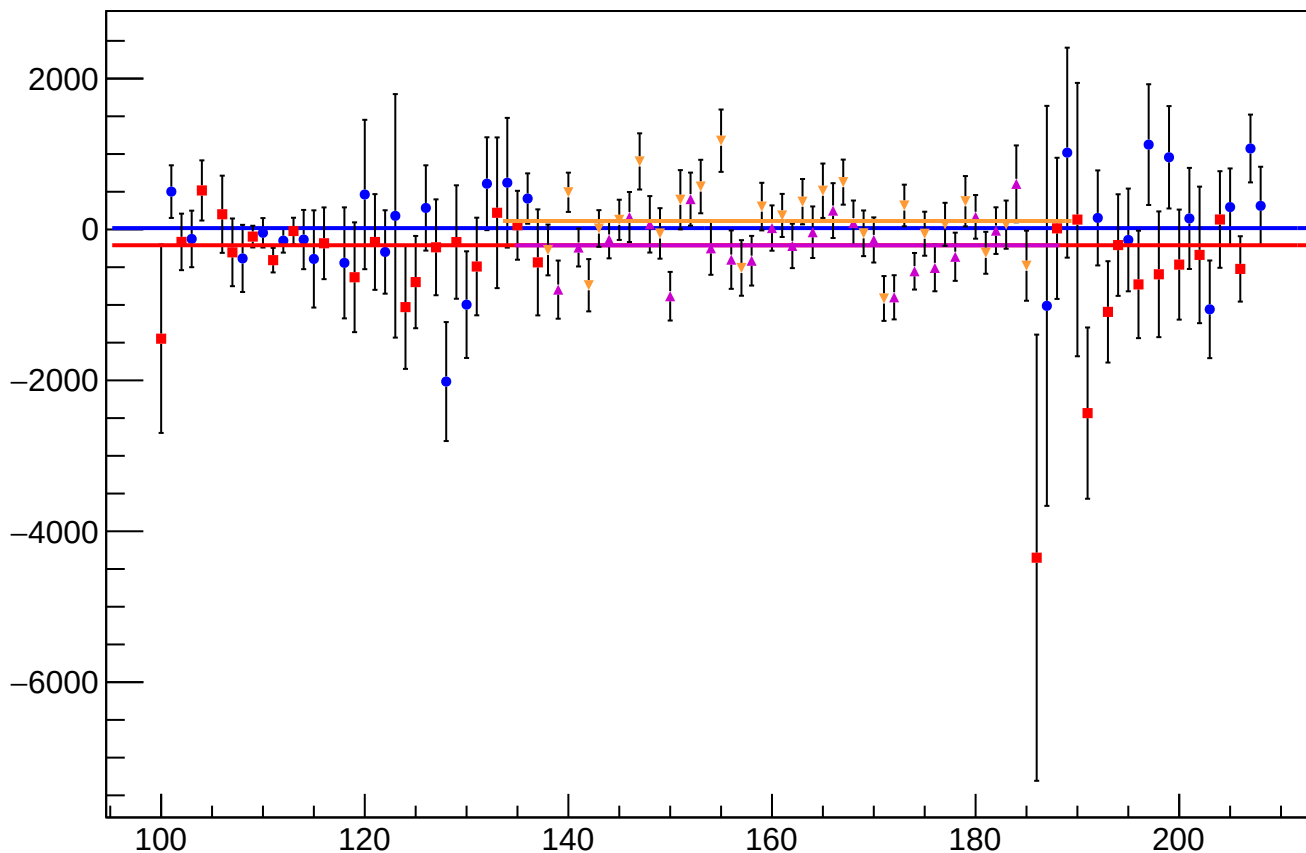
Right: 406.285 $\pm$ 0.063 χ^2 /NDF: 17445585.4/58

In: 344.846 $\pm$ 0.047 χ^2 /NDF: 9499683.9/50

Out: 334.420 $\pm$ 0.045 χ^2 /NDF: 11464827.7/55

All: 339.411 $\pm$ 0.032 χ^2 /NDF: 20990203.2/10

asym_sam8_mean vs Slug, Sign Corrected



Right In: 18.196 ± 82.267 $\chi^2/\text{NDF}: 30.8/27$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -208.905 ± 72.576 $\chi^2/\text{NDF}: 20.4/30$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

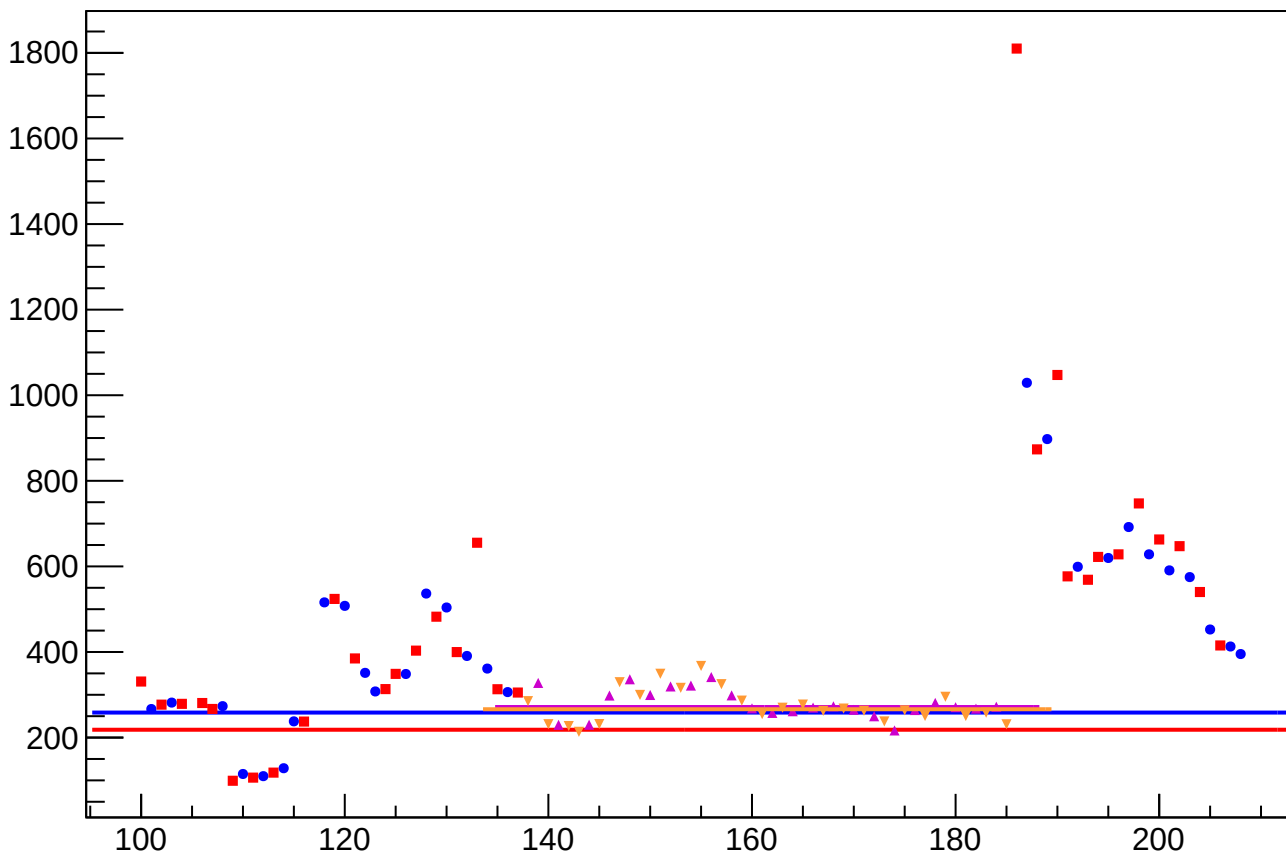
Right: -109.512 ± 54.425 $\chi^2/\text{NDF}: 55.5/58$

In: -121.727 ± 51.247 $\chi^2/\text{NDF}: 64.7/50$

Out: -24.867 ± 47.422 $\chi^2/\text{NDF}: 80.8/55$

All: -69.547 ± 34.806 $\chi^2/\text{NDF}: 147.4/106$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 258.440+/-0.058 χ^2/NDF : 8758924.1/27

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 218.315+/-0.051 χ^2/NDF : 11845263.1/30

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

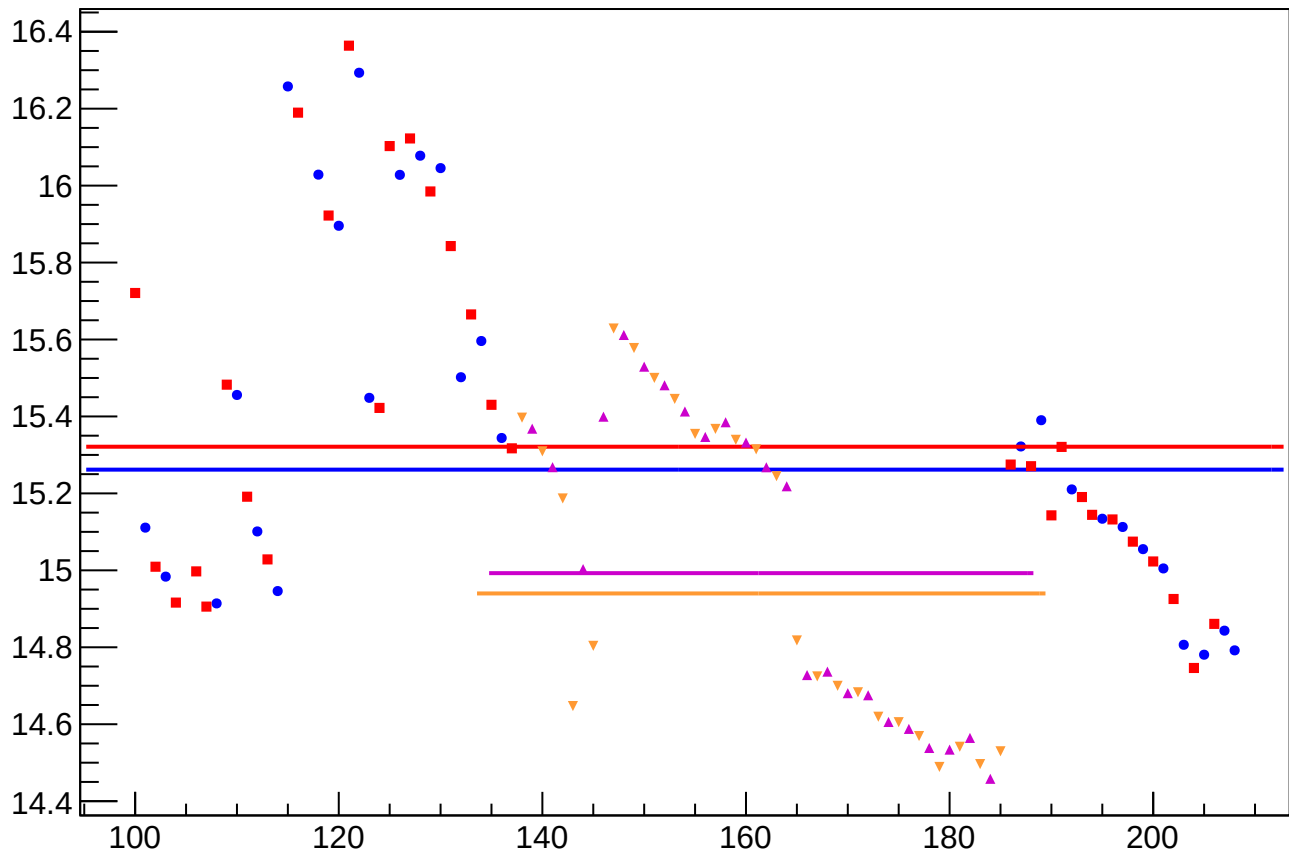
Right: 235.876+/-0.038 χ^2/NDF : 20871736.2/58

In: 266.380+/-0.036 χ^2/NDF : 9311247.8/50

Out: 245.760+/-0.034 χ^2/NDF : 12993980.9/55

All: 255.272+/-0.025 χ^2/NDF : 22479655.2/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.262 $\pm$ 0.000

χ^2 /NDF: 15249691675.0/27

Left Out: 14.940 $\pm$ 0.000

χ^2 /NDF: 24199653913.9/24

Right Out: 15.321 $\pm$ 0.000

χ^2 /NDF: 13397977916.2/30

Left In: 14.993 $\pm$ 0.000

χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000

χ^2 /NDF: 46444749587.5/47

Right: 15.289 $\pm$ 0.000

χ^2 /NDF: 28776808646.2/58

In: 15.084 $\pm$ 0.000

χ^2 /NDF: 41023072098.5/50

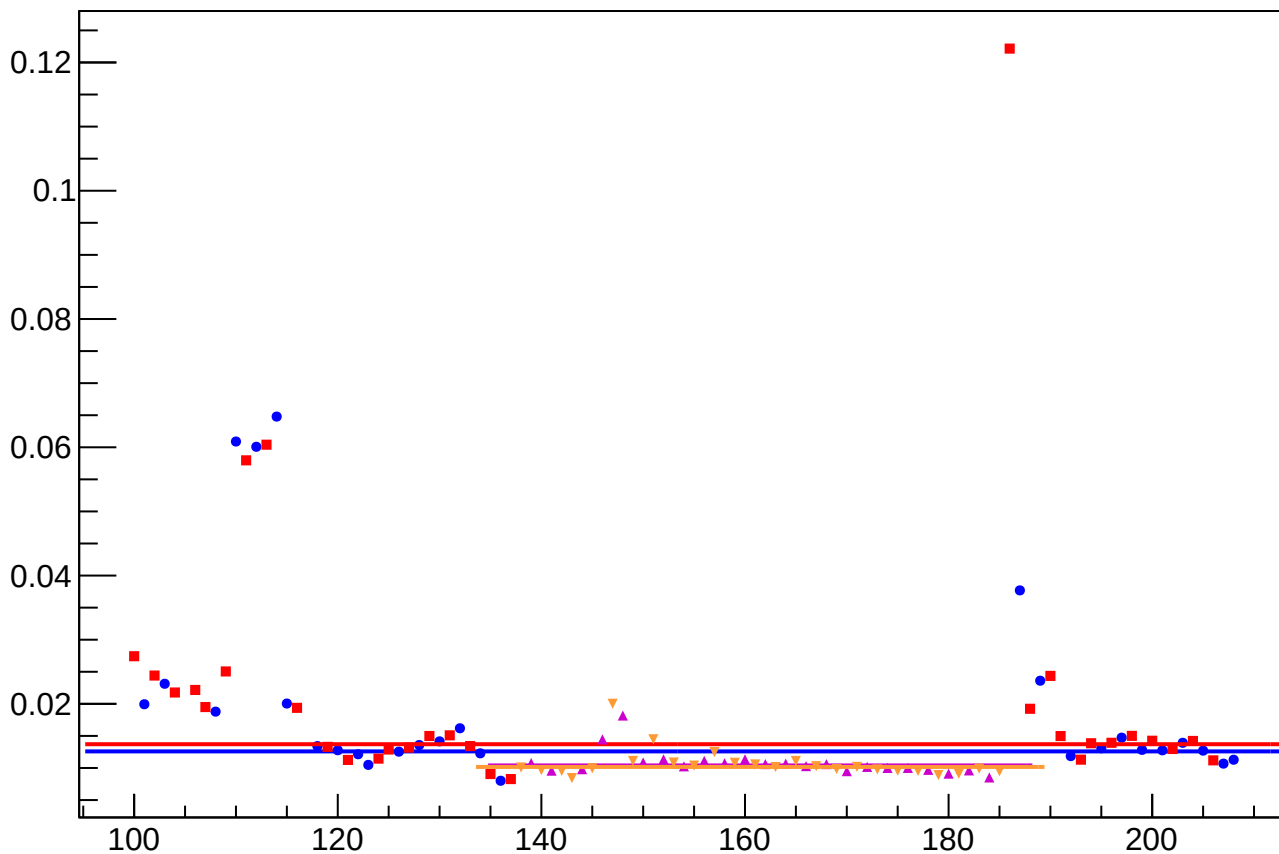
Out: 15.050 $\pm$ 0.000

χ^2 /NDF: 44610984160.8/55

All: 15.067 $\pm$ 0.000

χ^2 /NDF: 85772302455.5

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2571560.6/27

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3087238.7/30

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

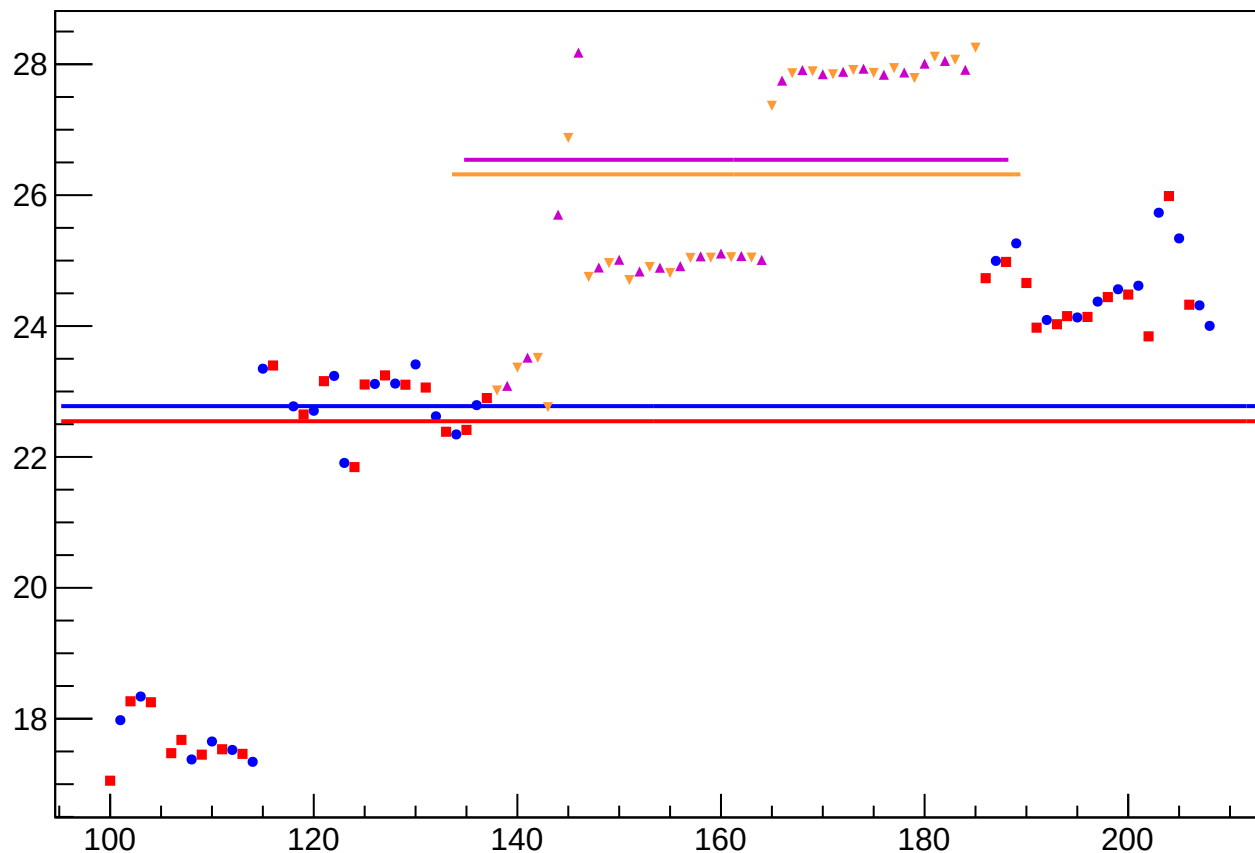
Right: 0.013+/-0.000 χ^2/NDF : 5750290.7/58

In: 0.011+/-0.000 χ^2/NDF : 3611721.0/50

Out: 0.011+/-0.000 χ^2/NDF : 5015049.9/55

All: 0.011+/-0.000 χ^2/NDF : 8627187.5/106

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.776+/-0.000

χ^2/NDF : 1324229469.1/27

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.667+/-0.000

χ^2/NDF : 2832560663.7/58

Right Out: 22.546+/-0.000

χ^2/NDF : 1498495290.8/30

In: 25.668+/-0.000

χ^2/NDF : 8886568597.0/50

Out: 25.568+/-0.000

χ^2/NDF : 10202520981.4/55

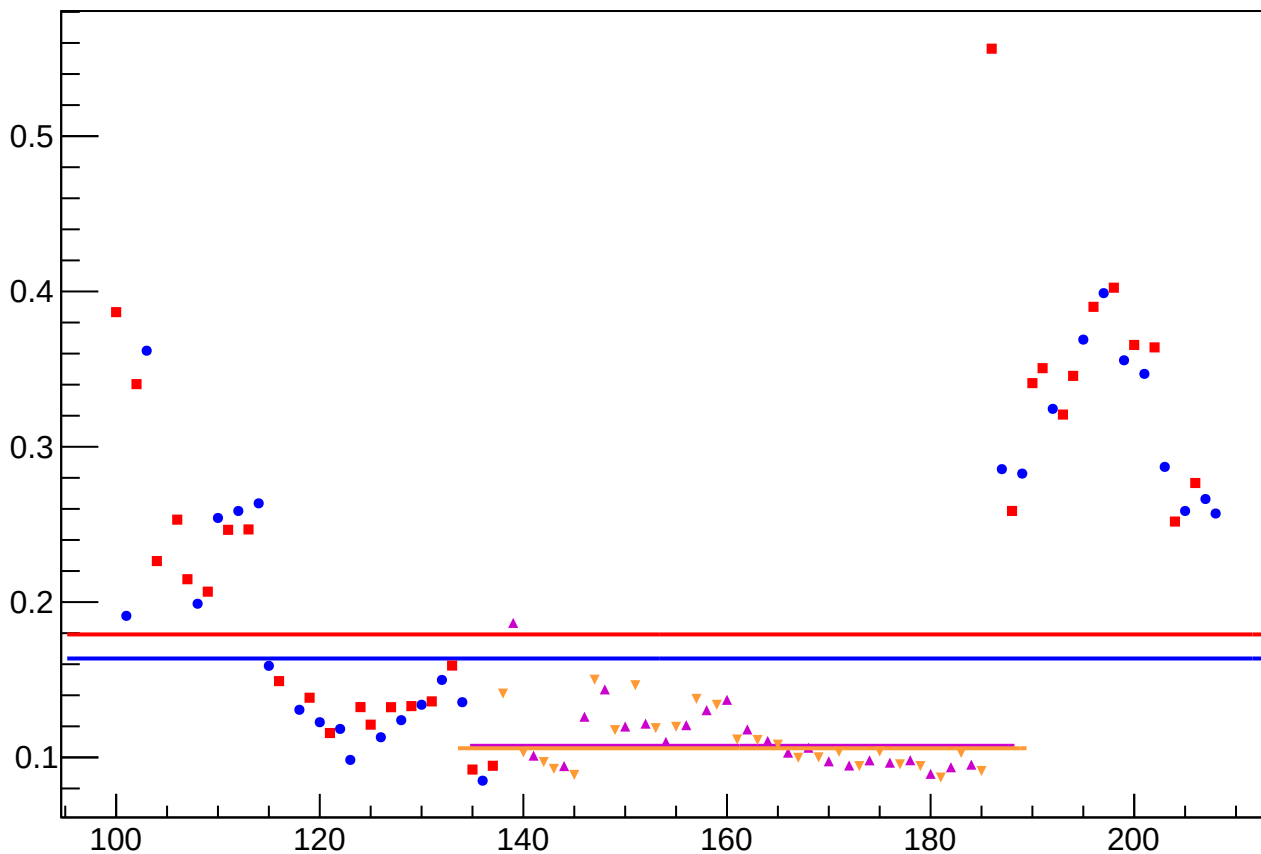
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.617+/-0.000

χ^2/NDF : 19097734387.9

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.164+/-0.000 χ^2/NDF : 5765900.0/27

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.179+/-0.000 χ^2/NDF : 5632150.9/30

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

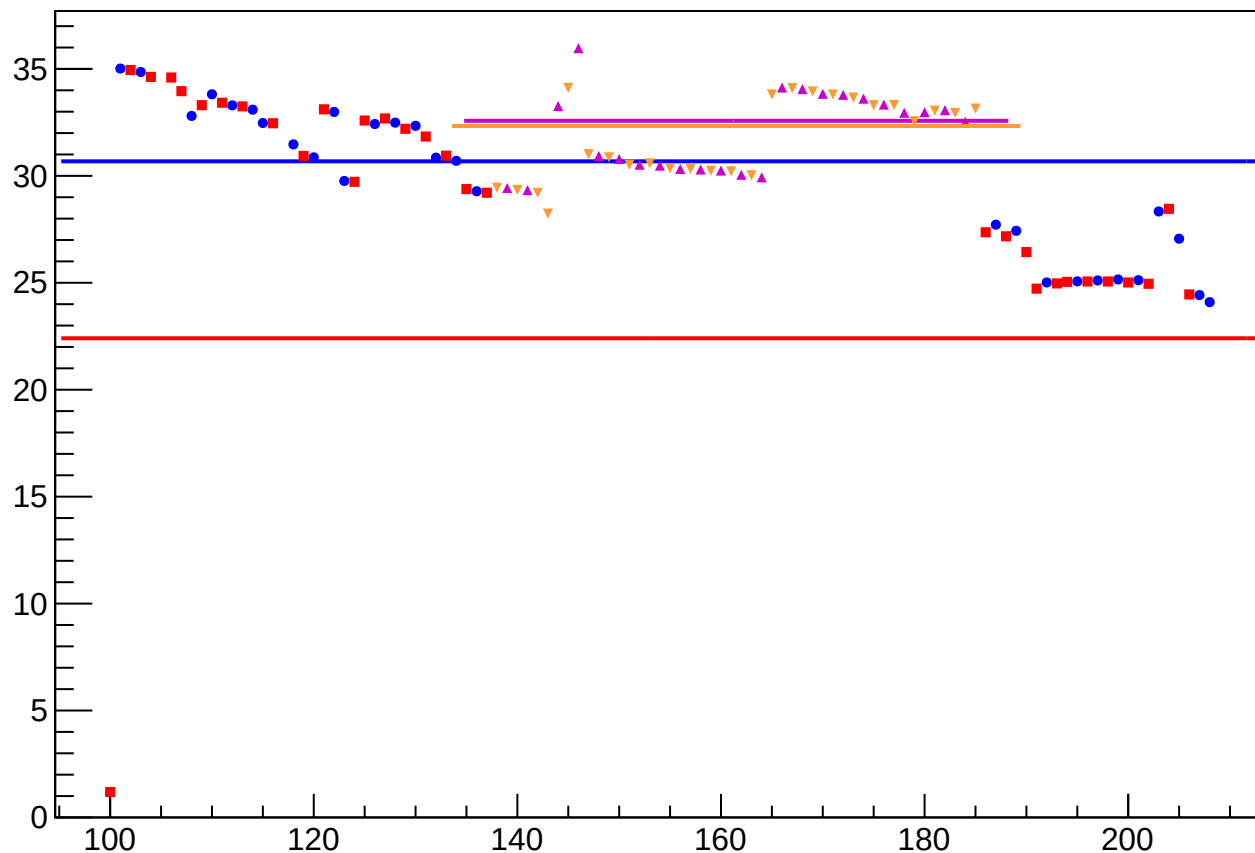
Right: 0.171+/-0.000 χ^2/NDF : 11486724.7/58

In: 0.120+/-0.000 χ^2/NDF : 8434343.6/50

Out: 0.120+/-0.000 χ^2/NDF : 9377258.0/55

All: 0.120+/-0.000 χ^2/NDF : 17811604.9/106

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.679+/-0.000

χ^2/NDF : 7371219058.9/27

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right Out: 22.406+/-0.000

χ^2/NDF : 232100712057.5/30

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

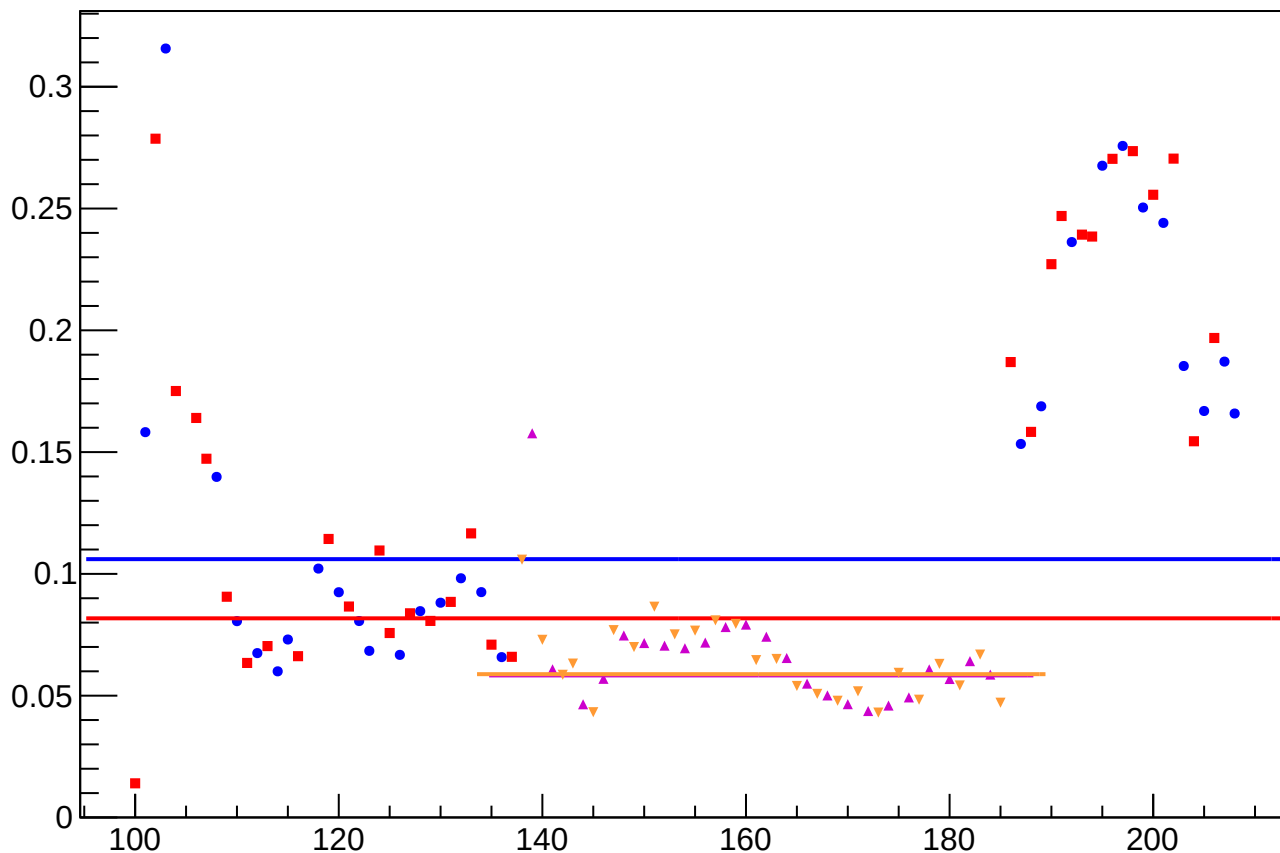
Right: 25.883+/-0.000 χ^2/NDF : 274968164724.1/58

In: 32.222+/-0.000 χ^2/NDF : 21783614307.9/50

Out: 30.033+/-0.000 χ^2/NDF : 338362928209.9/55

All: 31.072+/-0.000 χ^2/NDF : 372262758674.1/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.000 χ^2 /NDF: 5781803.7/27

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.082 $\pm$ 0.000 χ^2 /NDF: 10623091.7/30

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

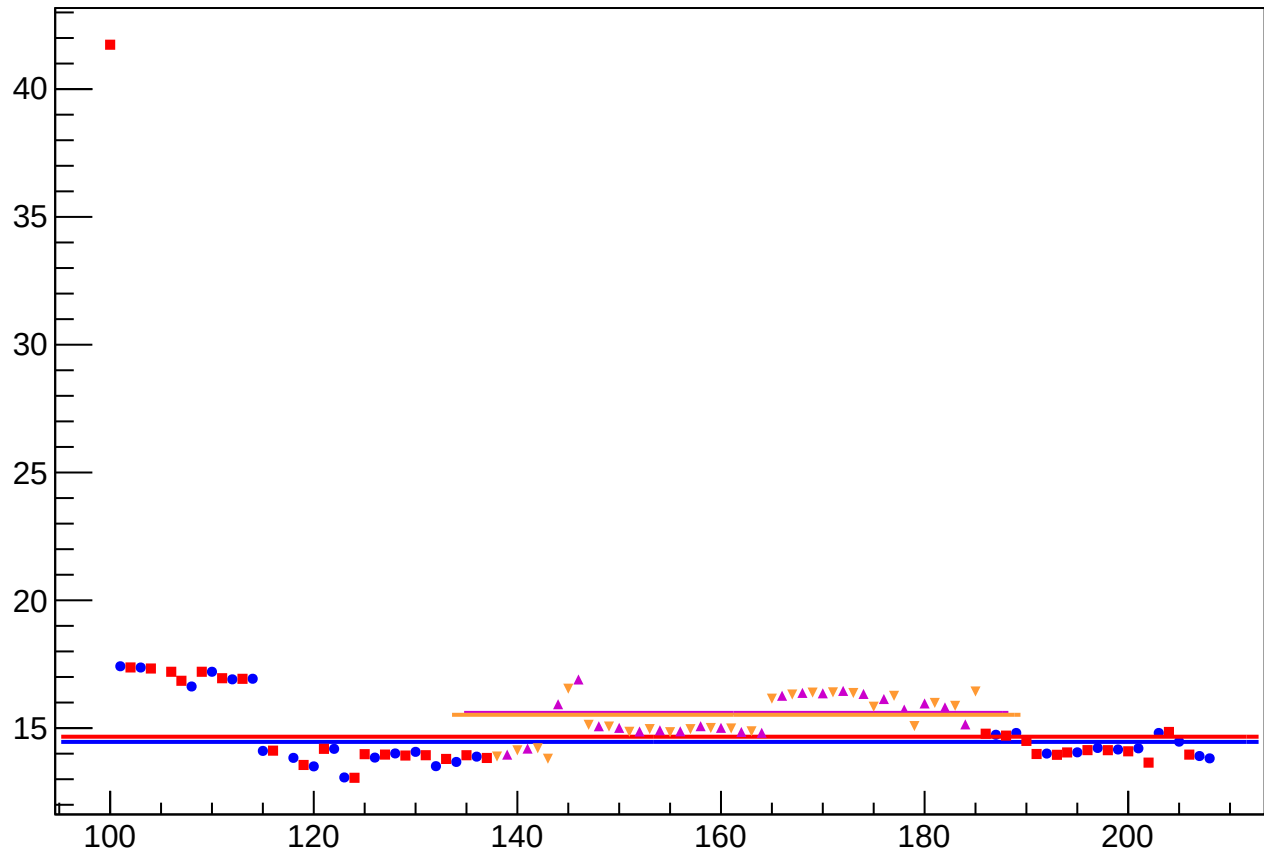
Right: 0.092 $\pm$ 0.000 χ^2 /NDF: 17017322.4/58

In: 0.067 $\pm$ 0.000 χ^2 /NDF:10626776.0/50

Out: 0.064 $\pm$ 0.000 χ^2 /NDF:13022334.4/55

All: 0.066 $\pm$ 0.000 χ^2 /NDF: 23696148.7/106

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.460+/-0.000 χ^2/NDF : 1528899323.9/27

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.663+/-0.000 χ^2/NDF : 1969872407.1/30

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

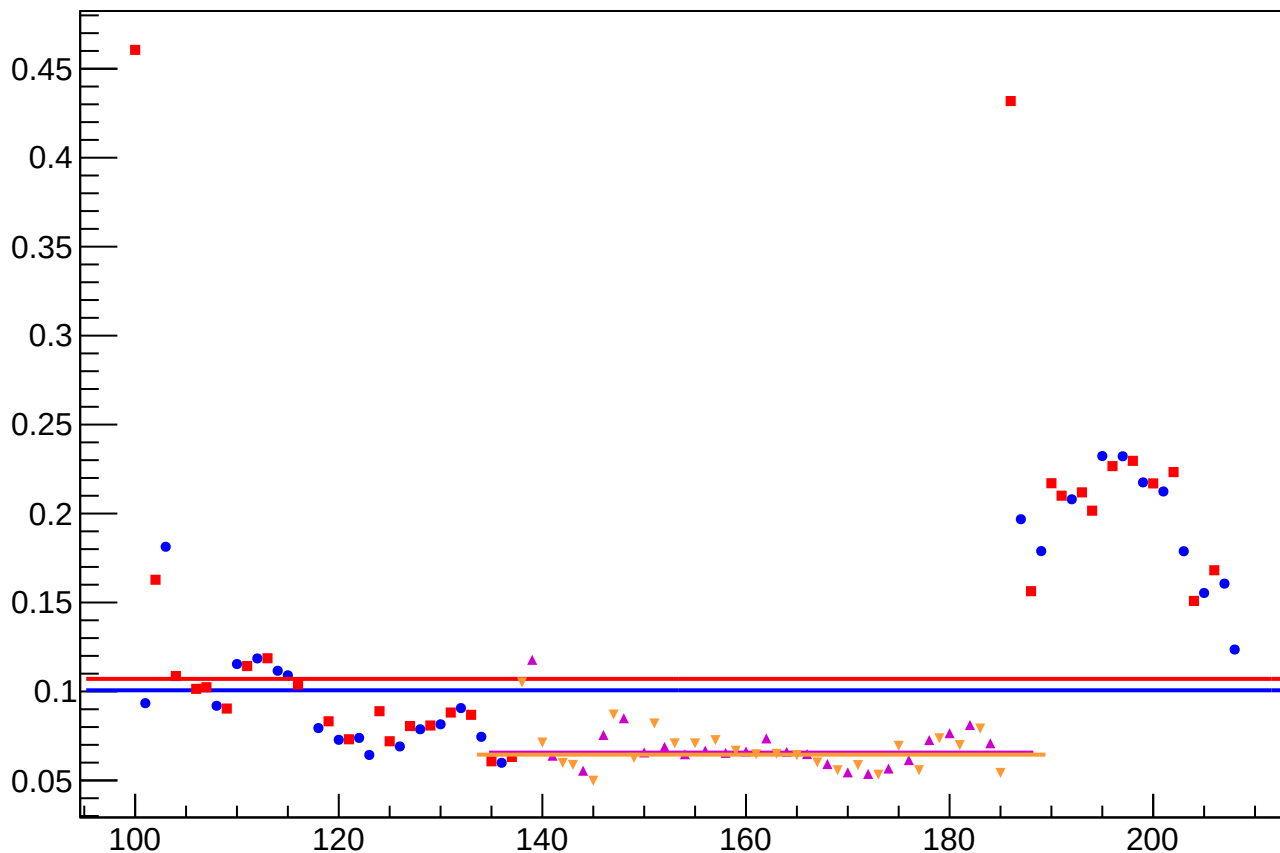
Right: 14.558+/-0.000 χ^2/NDF : 3520283951.8/58

In: 15.323+/-0.000 χ^2/NDF : 4499206397.0/50

Out: 15.340+/-0.000 χ^2/NDF : 5144642758.1/55

All: 15.332+/-0.000 χ^2/NDF : 9644468311.7/1

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.101 $\pm$ 0.000 χ^2/NDF : 4841202.8/27

Left Out: 0.064 $\pm$ 0.000 χ^2/NDF : 761552.3/24

Right Out: 0.107 $\pm$ 0.000 χ^2/NDF : 4978081.2/30

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

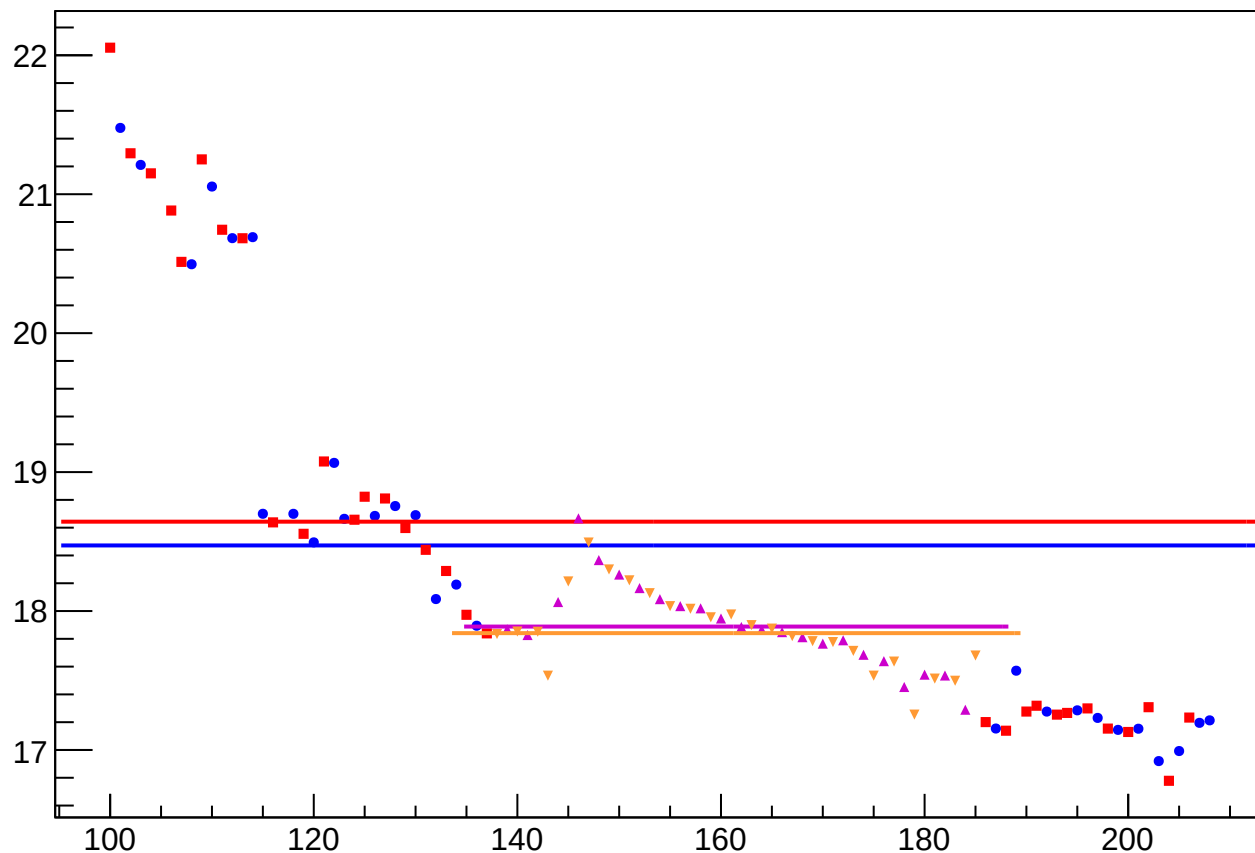
Right: 0.104 $\pm$ 0.000 χ^2/NDF : 9862208.2/58

In: 0.074 $\pm$ 0.000 χ^2/NDF : 7574961.5/50

Out: 0.073 $\pm$ 0.000 χ^2/NDF : 8613668.7/55

All: 0.074 $\pm$ 0.000 χ^2/NDF : 16189974.2/106

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.472 $\pm$ 0.000

χ^2/NDF : 30906158936.8/27

Left Out: 17.841 $\pm$ 0.000

χ^2/NDF : 1283287989.7/24

Right Out: 18.643 $\pm$ 0.000

χ^2/NDF : 32273974031.9/30

Left In: 17.888 $\pm$ 0.000

χ^2/NDF : 1203002311.3/22

Left: 17.864 $\pm$ 0.000

χ^2/NDF : 2506375288.6/47

Right: 18.557 $\pm$ 0.000

χ^2/NDF : 63350786782.2/58

In: 18.124 $\pm$ 0.000

χ^2/NDF : 34495493909.7/50

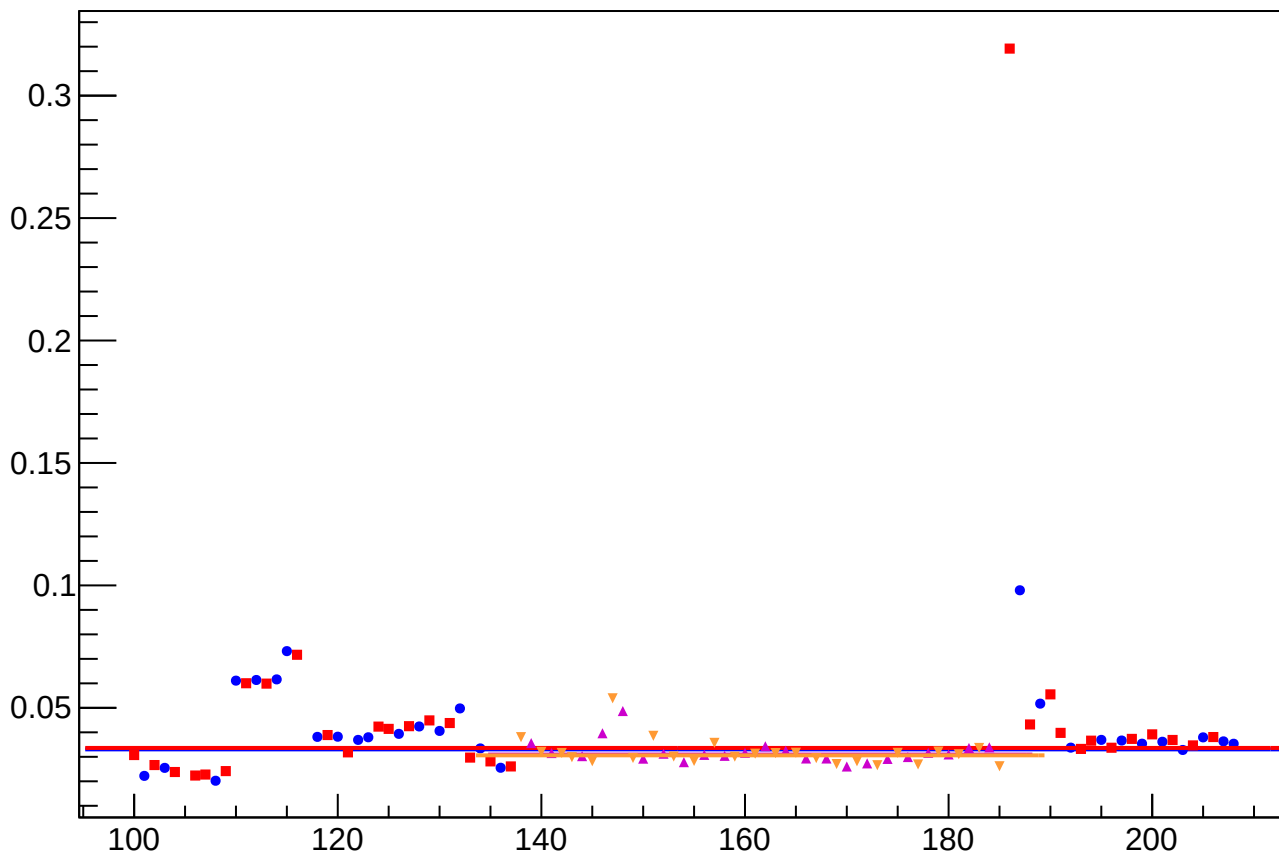
Out: 18.149 $\pm$ 0.000

χ^2/NDF : 38155620328.8/55

All: 18.136 $\pm$ 0.000

χ^2/NDF : 72660297547.2

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2 /NDF: 1740551.8/27

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.034 $\pm$ 0.000 χ^2 /NDF: 2158724.6/30

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

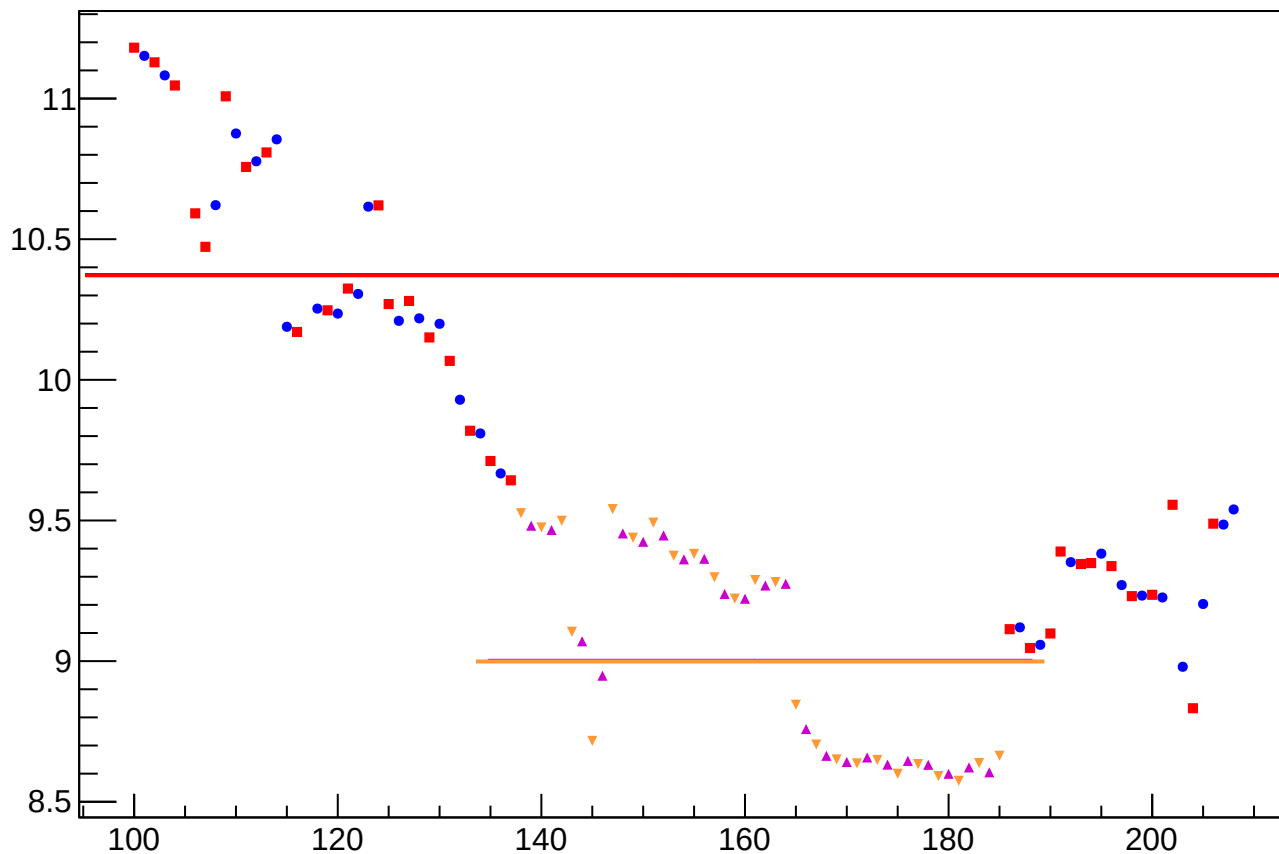
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3903247.0/58

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2258320.3/50

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2879505.0/55

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5137825.3/106

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.373+/-0.000 χ^2/NDF : 14639211714.4/27

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.372+/-0.000 χ^2/NDF : 12838773266.1/30

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

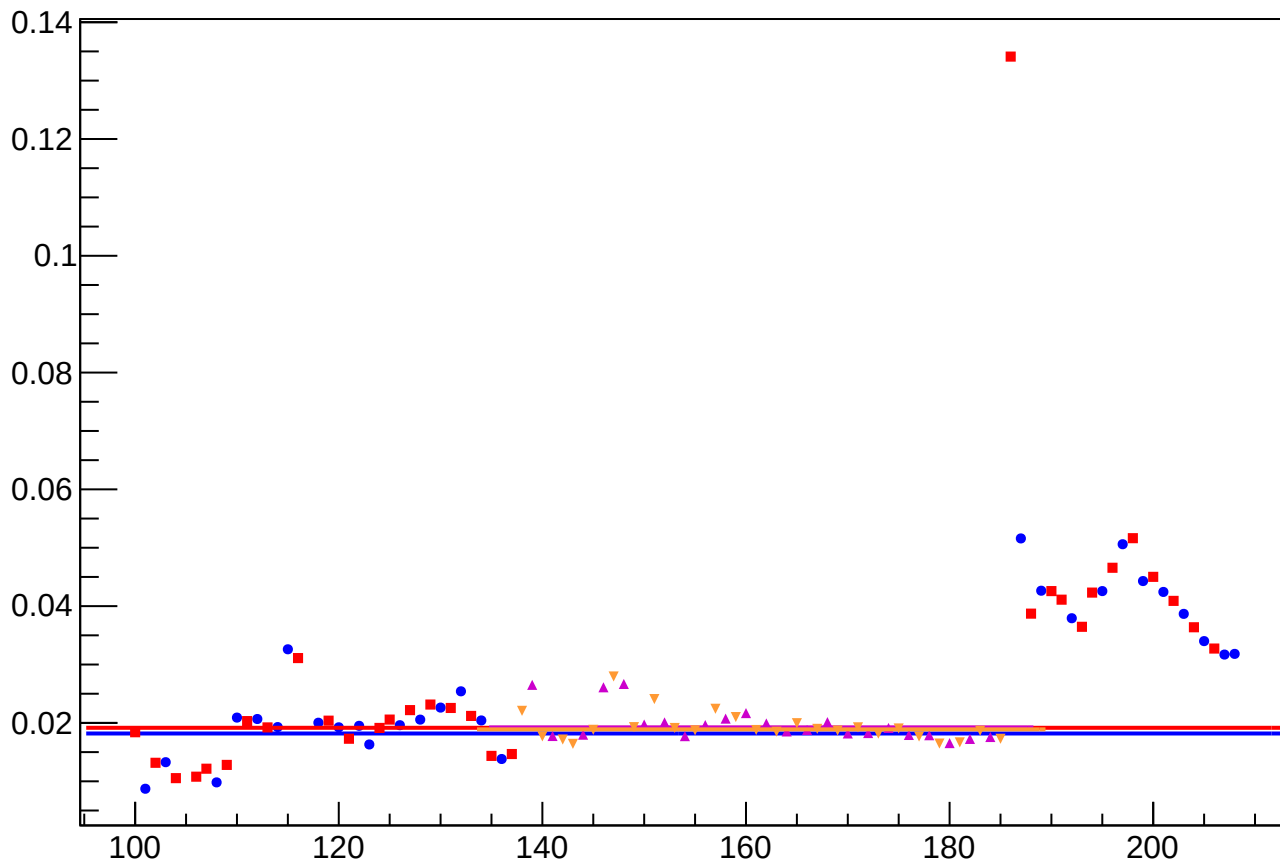
Right: 10.372+/-0.000 χ^2/NDF : 27477993407.3/58

In: 9.578+/-0.000 χ^2/NDF : 53827842582.4/50

Out: 9.533+/-0.000 χ^2/NDF : 53671345071.2/55

All: 9.555+/-0.000 χ^2/NDF : 107577763419.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 6578191.3/27

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.019+/-0.000 χ^2/NDF : 6506060.7/30

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

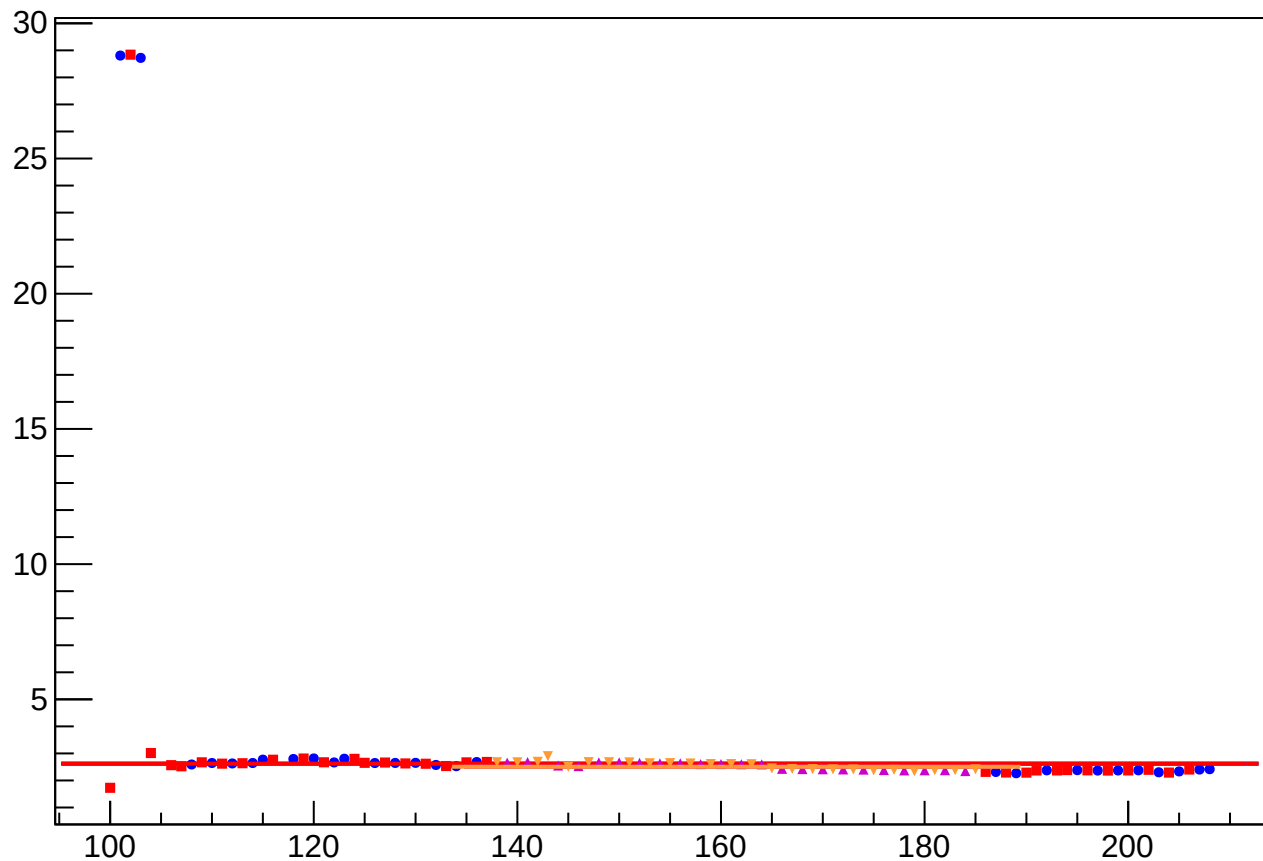
Right: 0.019+/-0.000 χ^2/NDF : 13113303.6/58

In: 0.019+/-0.000 χ^2/NDF :7098664.4/50

Out: 0.019+/-0.000 χ^2/NDF :6936855.0/55

All: 0.019+/-0.000 χ^2/NDF : 14038922.8/106

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.622 $\pm$ 0.000 χ^2 /NDF: 180451565625.7/27

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.620 $\pm$ 0.000 χ^2 /NDF: 88733184501.7/30

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

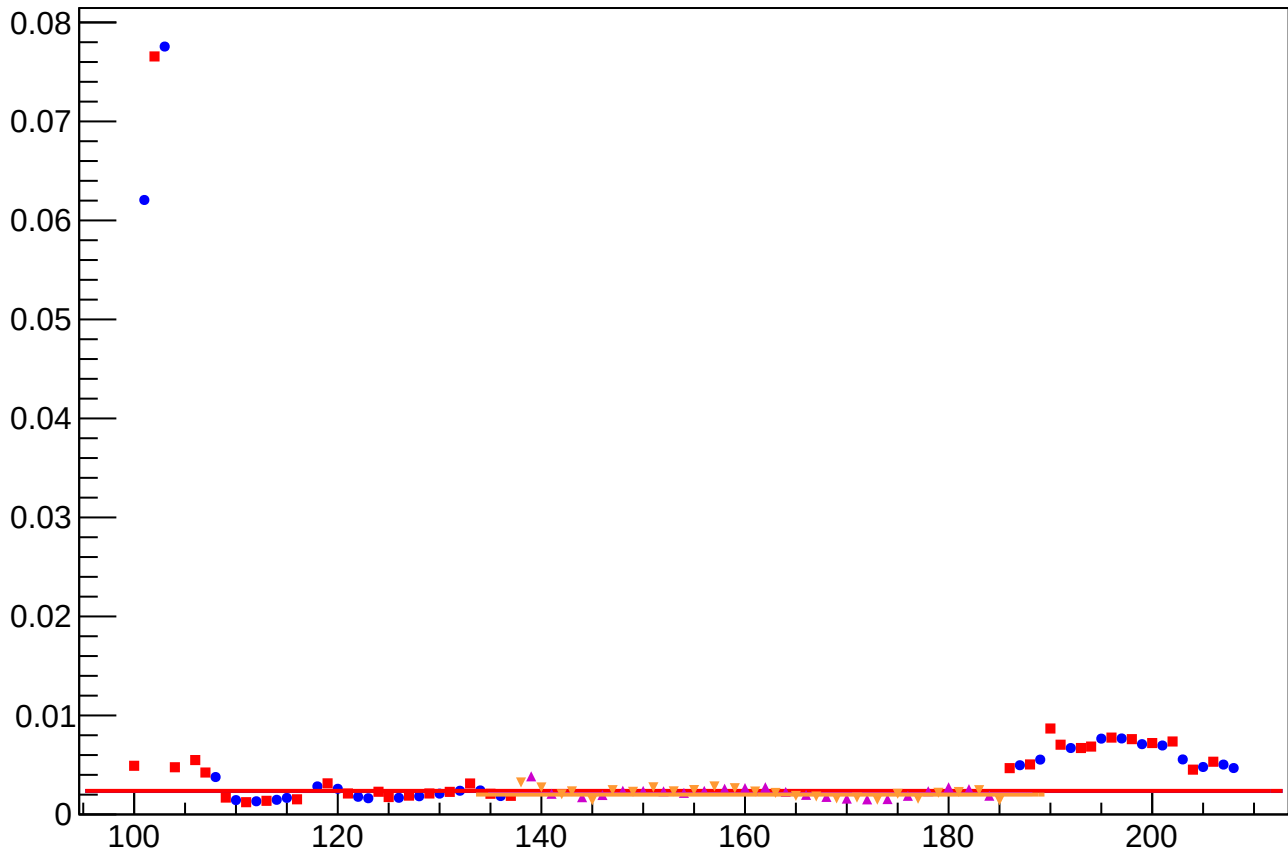
Right: 2.621 $\pm$ 0.000 χ^2 /NDF: 269187757179.1/58

In: 2.543 $\pm$ 0.000 χ^2 /NDF: 237857835474.2/50

Out: 2.542 $\pm$ 0.000 χ^2 /NDF: 167527015122.7/55

All: 2.542 $\pm$ 0.000 χ^2 /NDF: 405389218874.5

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9083663.8/27

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9170240.7/30

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

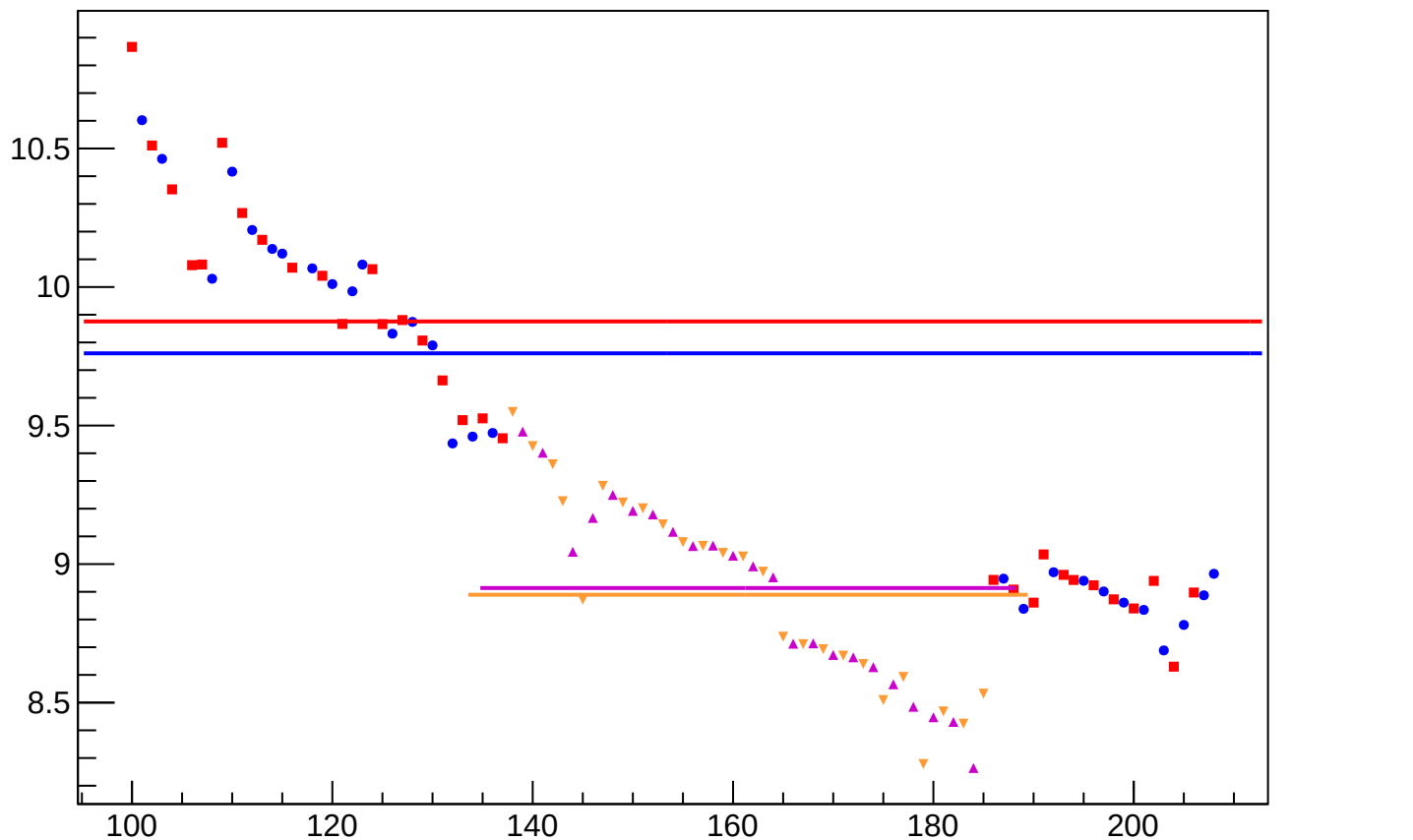
Right: 0.002+/-0.000 χ^2/NDF : 18254211.3/58

In: 0.002+/-0.000 χ^2/NDF :10587427.3/50

Out: 0.002+/-0.000 χ^2/NDF :10952969.6/55

All: 0.002+/-0.000 χ^2/NDF : 21547108.0/106

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.761+/-0.000

χ^2/NDF : 65315225618.9/27

Left: 8.901+/-0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889+/-0.000

χ^2/NDF : 34704694045.9/24

Right: 9.819+/-0.000

χ^2/NDF : 129109227947.5/58

Right Out: 9.876+/-0.000

χ^2/NDF : 62281741855.9/30

In: 9.249+/-0.000

χ^2/NDF : 192592184497.9/50

Out: 9.248+/-0.000

χ^2/NDF : 239427939629.2/55

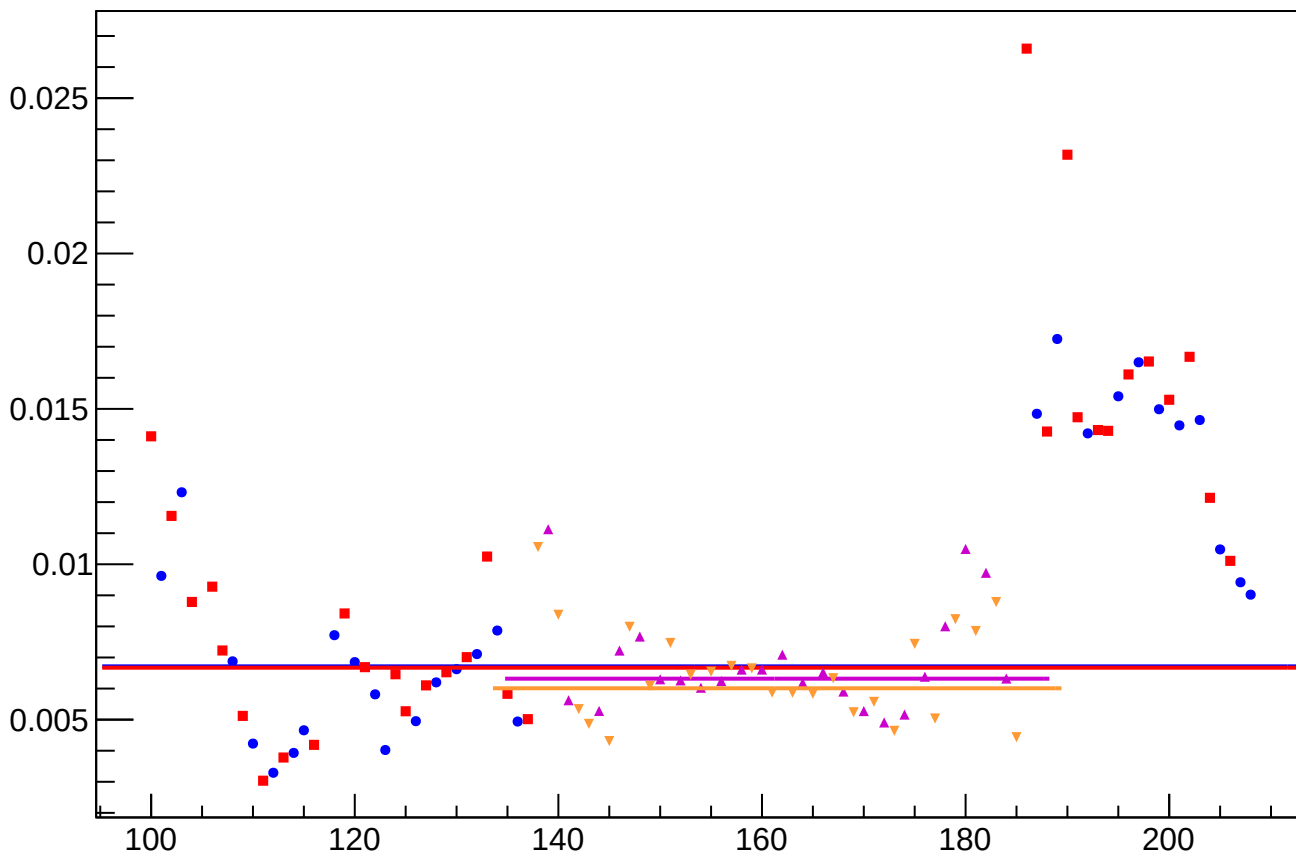
Left In: 8.914+/-0.000

χ^2/NDF : 28497227562.7/22

All: 9.248+/-0.000

χ^2/NDF : 432020220106.1

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5726100.2/27

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7193667.6/30

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

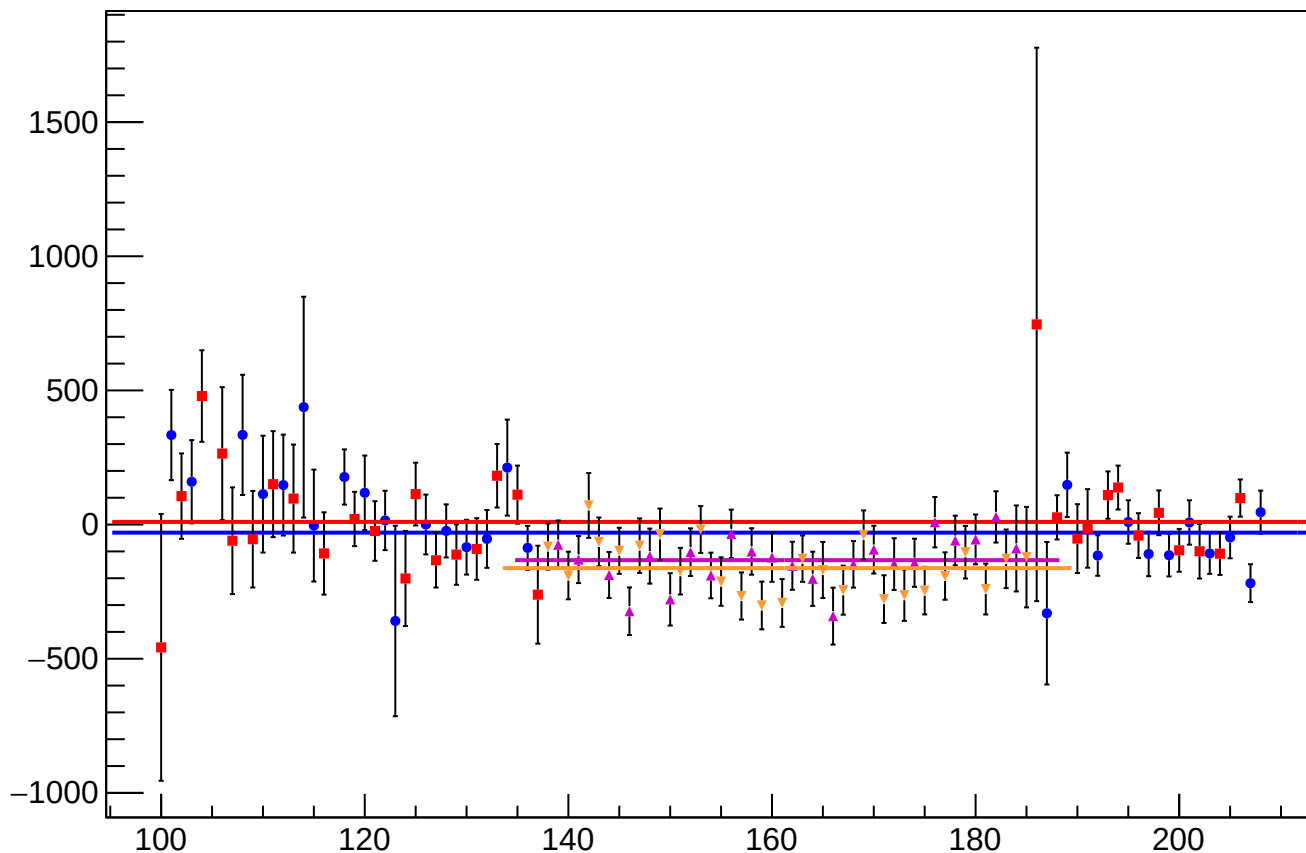
Right: 0.007+/-0.000 χ^2/NDF : 12920189.7/58

In: 0.006+/-0.000 χ^2/NDF :6856417.4/50

Out: 0.006+/-0.000 χ^2/NDF :8634686.3/55

All: 0.006+/-0.000 χ^2/NDF : 15521572.9/106

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -30.058 $\pm$ 19.939 χ^2/NDF : 36.8/27

Left Out: -162.161 $\pm$ 18.745 χ^2/NDF : 25.7/24

Right Out: 9.978 $\pm$ 20.381 χ^2/NDF : 34.7/30

Left In: -132.557 $\pm$ 19.403 χ^2/NDF : 20.7/22

Left: -147.870 $\pm$ 13.481 χ^2/NDF : 47.6/47

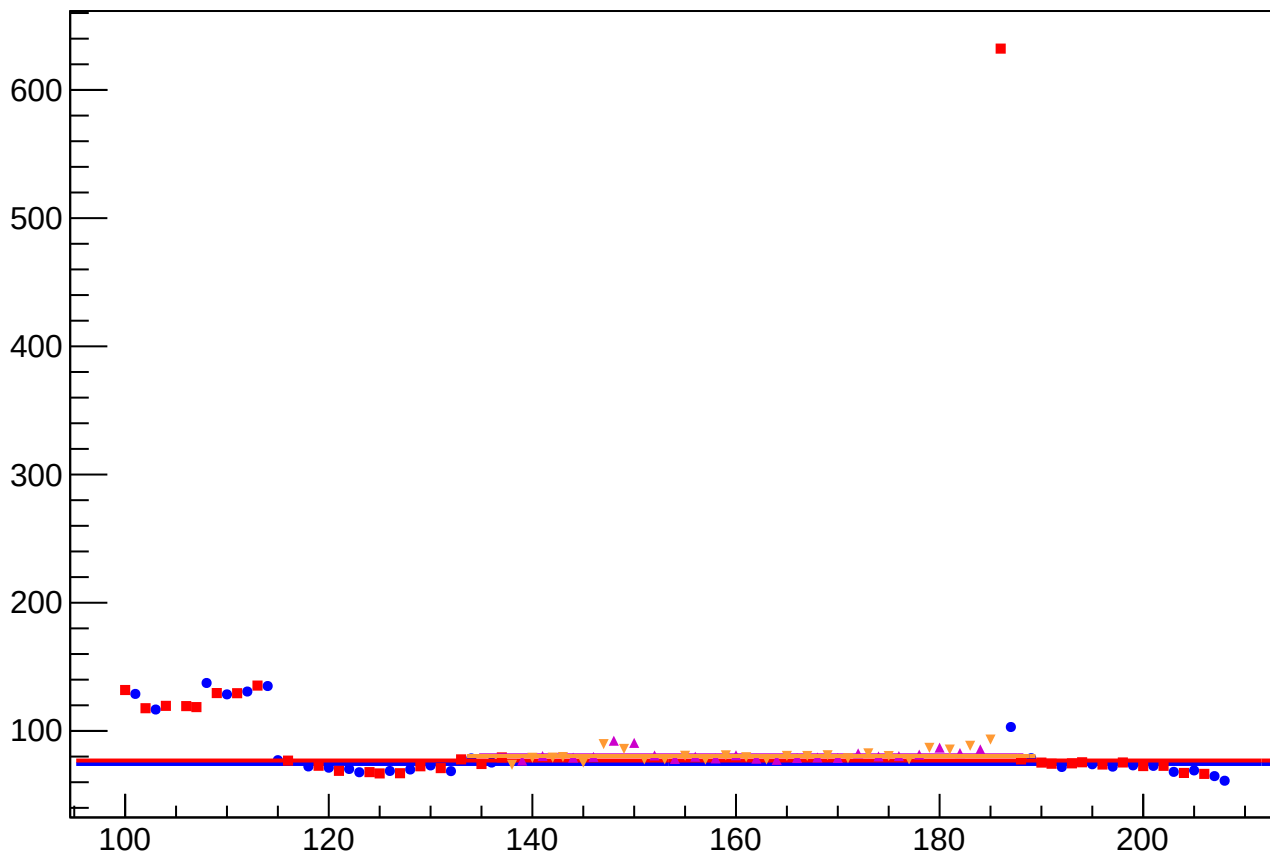
Right: -10.478 $\pm$ 14.253 χ^2/NDF : 73.5/58

In: -82.704 $\pm$ 13.906 χ^2/NDF : 71.1/50

Out: -83.276 $\pm$ 13.797 χ^2/NDF : 99.0/55

All: -82.992 $\pm$ 9.794 χ^2/NDF : 170.2/106

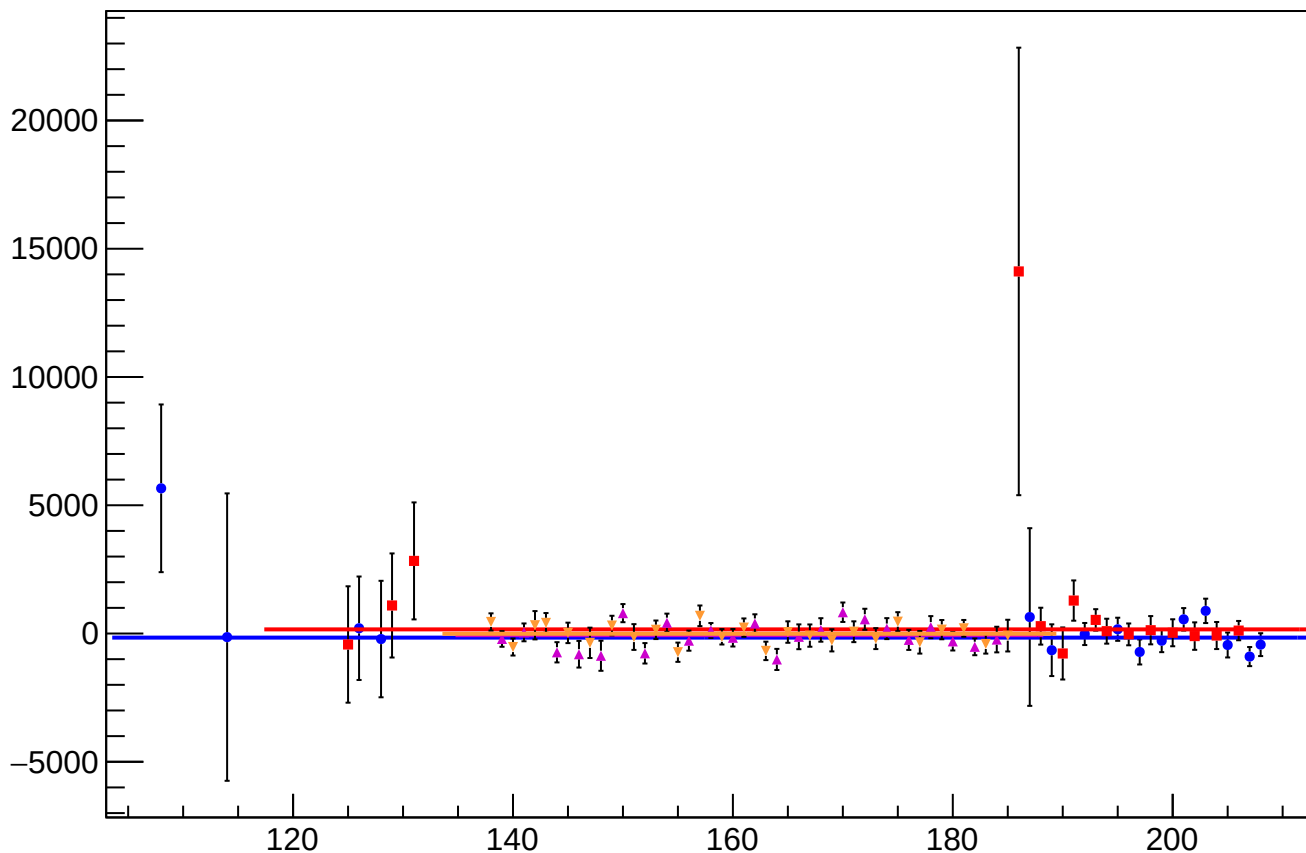
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 74.239 $\pm$ 0.014 χ^2 /NDF: 1030861.6/27
Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF:89942.2/24
Right Out: 76.926 $\pm$ 0.014 χ^2 /NDF: 1642014.1/30
Left In: 81.014 $\pm$ 0.014 χ^2 /NDF:72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47
Right: 75.553 $\pm$ 0.010 χ^2 /NDF: 2690634.5/58
In: 77.719 $\pm$ 0.010 χ^2 /NDF:1221703.0/50
Out: 78.840 $\pm$ 0.010 χ^2 /NDF:1764515.7/55
All: 78.284 $\pm$ 0.007 χ^2 /NDF: 2992768.1/106

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -159.557 ± 145.329 $\chi^2/\text{NDF}: 17.6/14$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: 161.463 ± 154.855 $\chi^2/\text{NDF}: 8.7/14$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

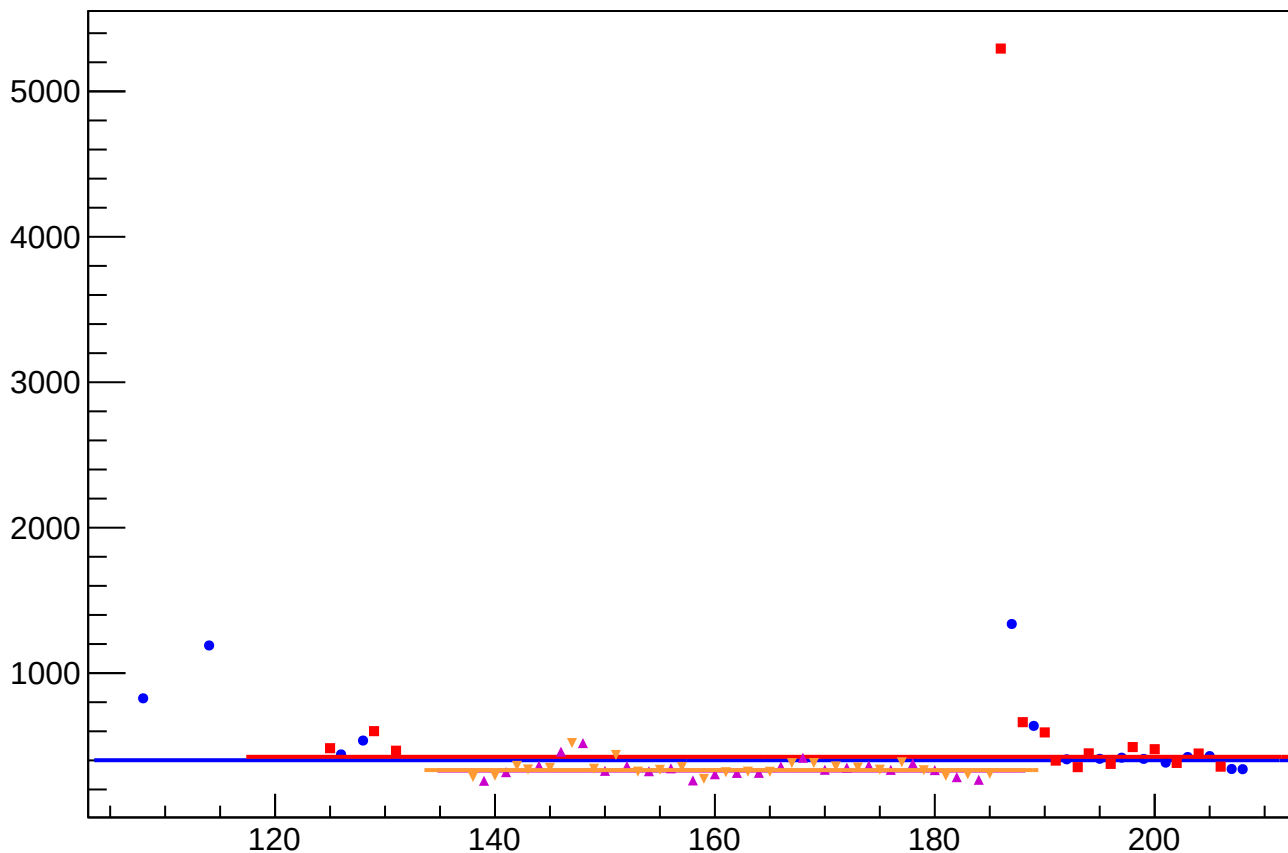
Right: -9.225 ± 105.971 $\chi^2/\text{NDF}: 28.6/29$

In: -86.696 ± 70.114 $\chi^2/\text{NDF}: 55.4/37$

Out: 24.589 ± 69.940 $\chi^2/\text{NDF}: 32.2/39$

All: -30.915 ± 49.517 $\chi^2/\text{NDF}: 88.8/77$

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 401.142 $\pm$ 0.103 χ^2 /NDF: 446966.2/14

Left Out: 333.233 $\pm$ 0.055 χ^2 /NDF: 592122.2/24

Right Out: 424.630 $\pm$ 0.109 χ^2 /NDF: 1134947.4/14

Left In: 329.985 $\pm$ 0.057 χ^2 /NDF: 795969.0/22

Left: 331.643 $\pm$ 0.040 χ^2 /NDF: 1389771.8/47

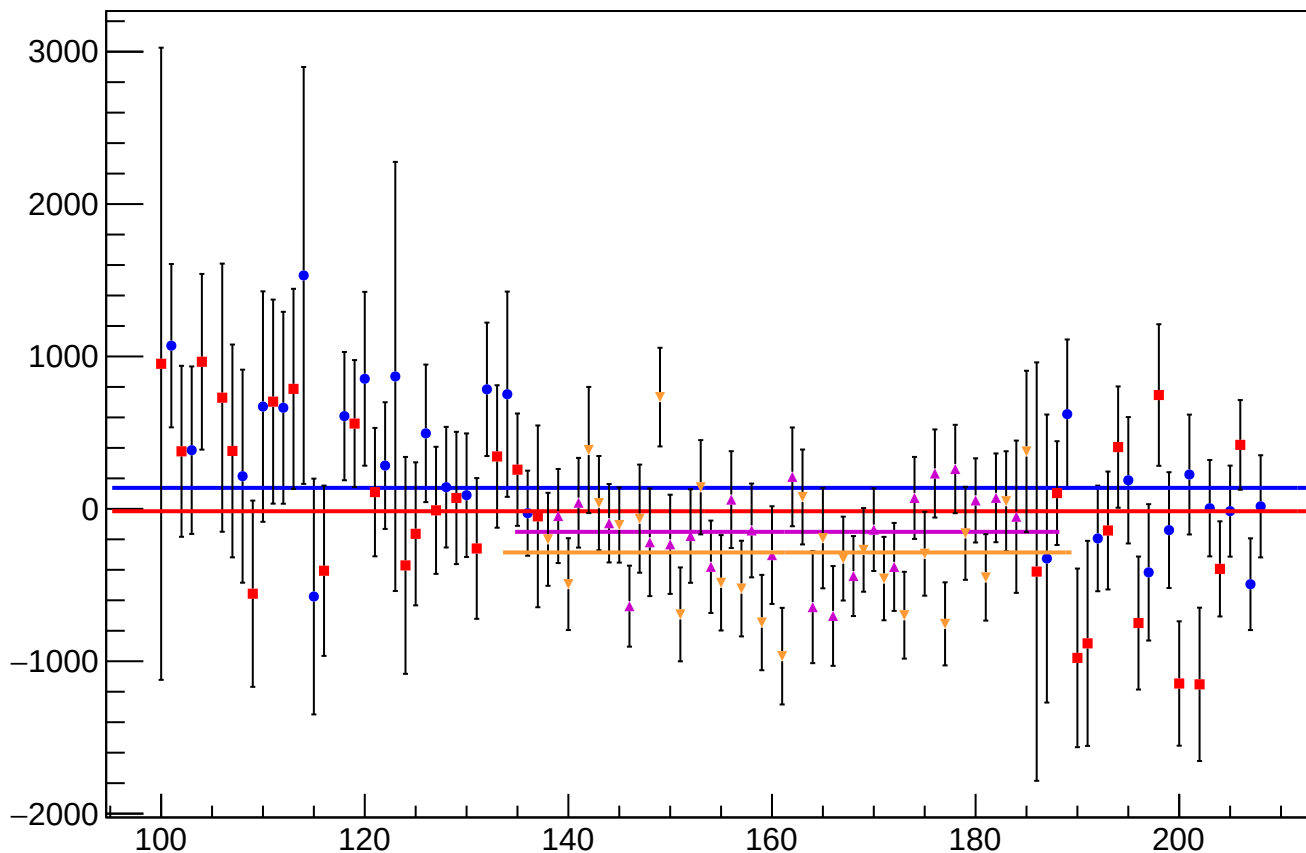
Right: 412.142 $\pm$ 0.075 χ^2 /NDF: 1606377.0/29

In: 346.548 $\pm$ 0.050 χ^2 /NDF: 1610804.7/37

Out: 351.877 $\pm$ 0.049 χ^2 /NDF: 2281644.7/39

All: 349.219 $\pm$ 0.035 χ^2 /NDF: 3898239.8/77

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 137.710 $\pm$ 82.495 χ^2/NDF : 22.8/27

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF : 36.6/24

Right Out: -15.679 $\pm$ 85.271 χ^2/NDF : 40.1/30

Left In: -150.920 $\pm$ 62.818 χ^2/NDF : 18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

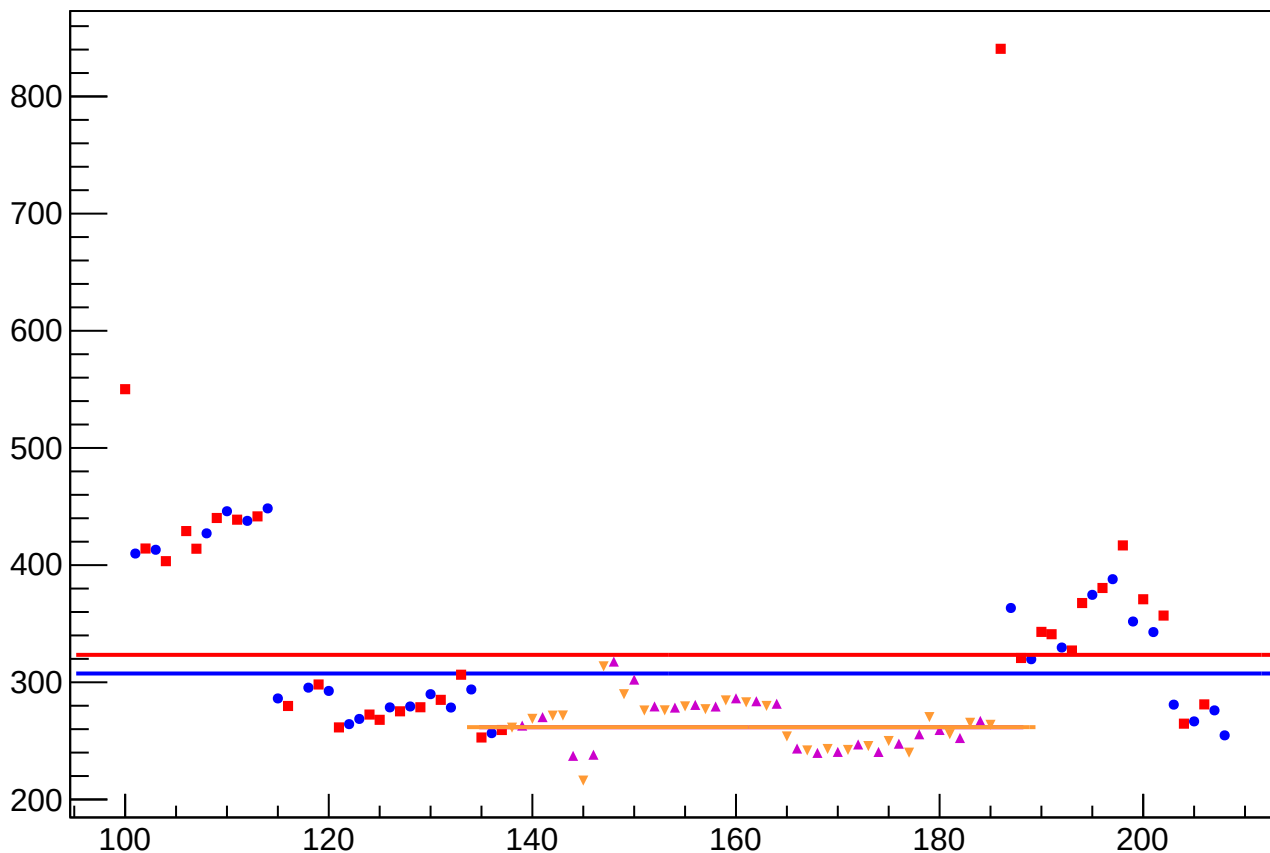
Right: 63.553 $\pm$ 59.290 χ^2/NDF : 64.6/58

In: -44.985 $\pm$ 49.978 χ^2/NDF : 49.3/50

Out: -194.325 $\pm$ 49.663 χ^2/NDF : 83.3/55

All: -120.126 $\pm$ 35.228 χ^2/NDF : 137.1/106

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 307.502+/-0.058 χ^2/NDF : 805431.1/27

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 323.423+/-0.060 χ^2/NDF : 1211814.9/30

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

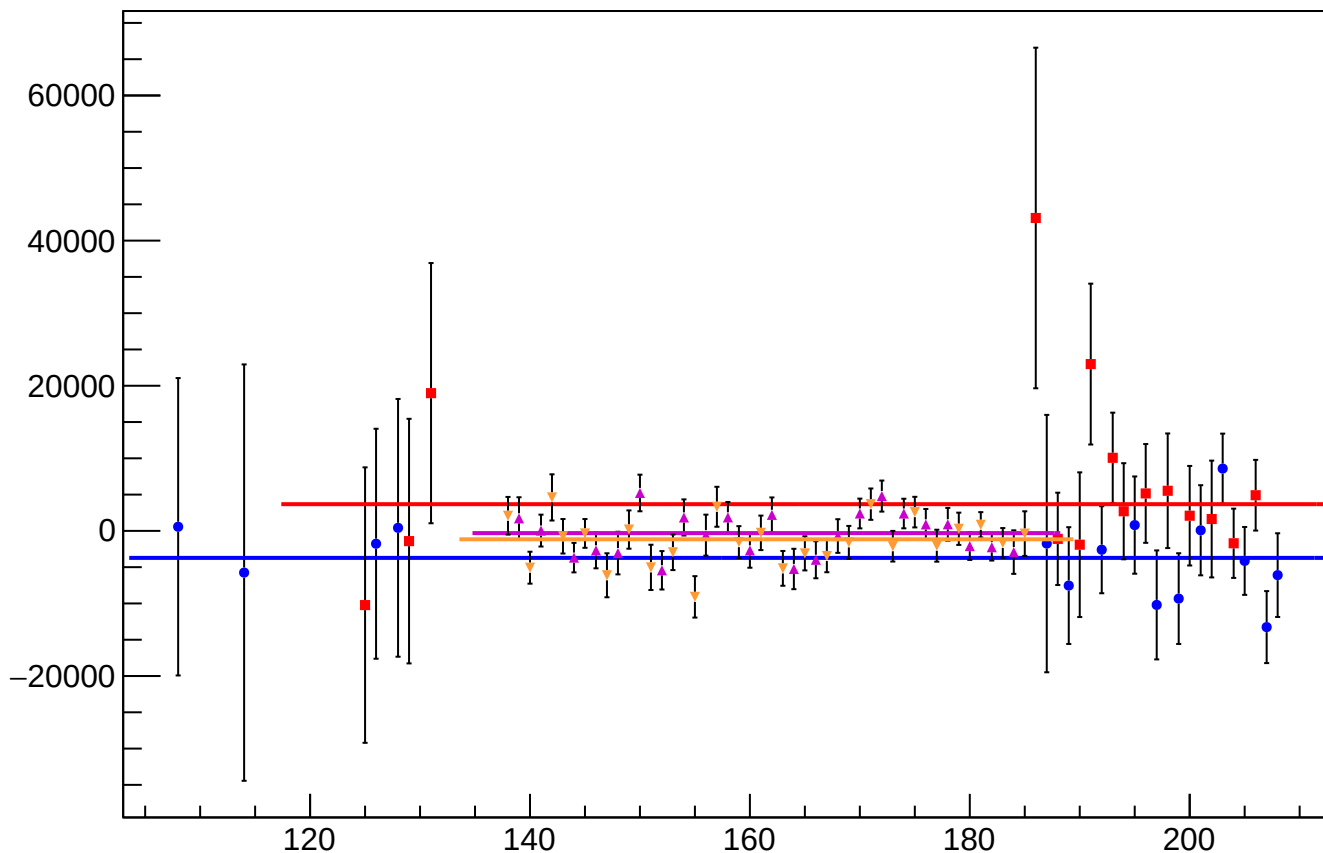
Right: 315.199+/-0.042 χ^2/NDF : 2053260.9/58

In: 278.470+/-0.035 χ^2/NDF : 1424992.3/50

Out: 282.651+/-0.035 χ^2/NDF : 2137000.2/55

All: 280.574+/-0.025 χ^2/NDF : 3569035.1/106

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3720.173+/-1801.162 χ^2/NDF : 13.2/14

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 3680.224+/-1949.484 χ^2/NDF : 10.7/14

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

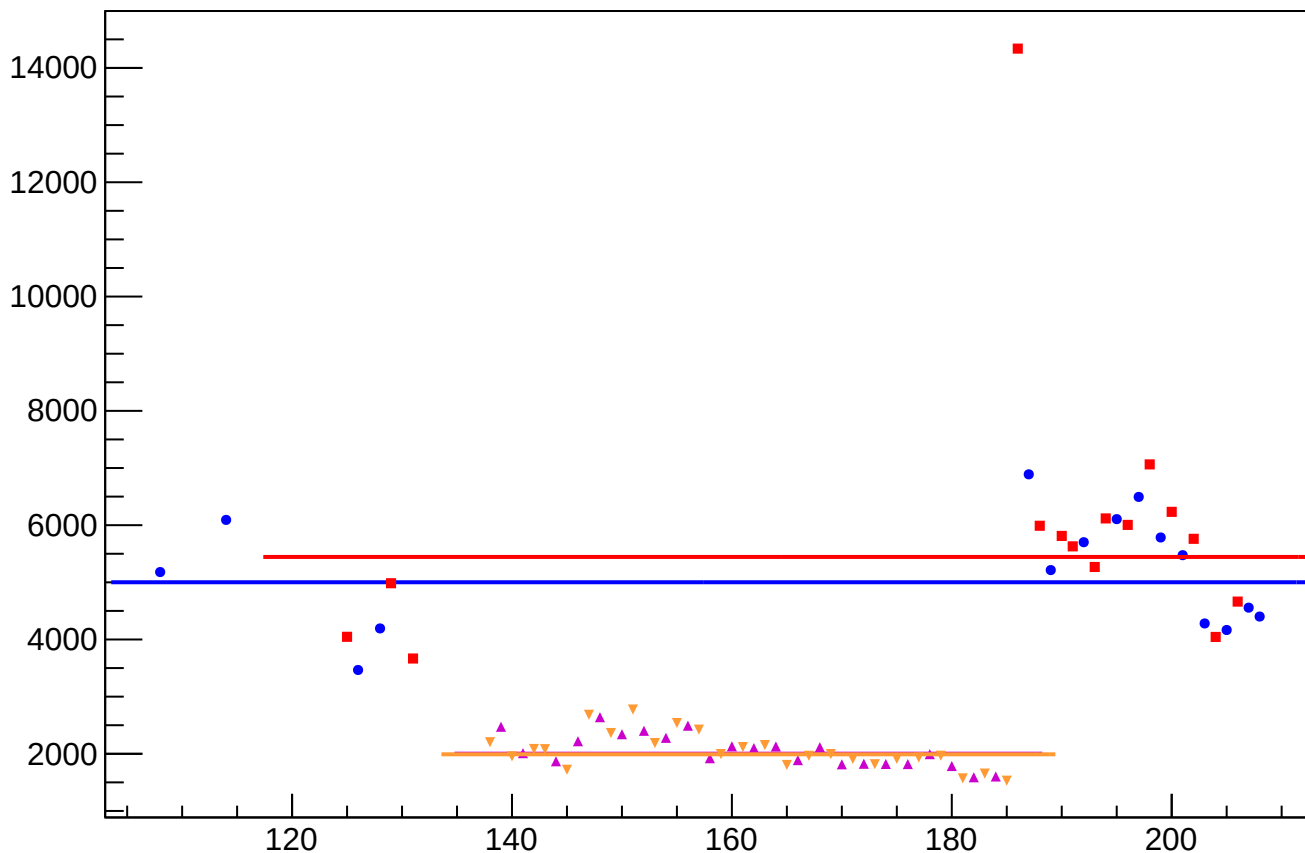
Right: -312.171+/-1322.946 χ^2/NDF : 31.7/29

In: -534.208+/-467.219 χ^2/NDF : 51.9/37

Out: -896.513+/-456.023 χ^2/NDF : 55.3/39

All: -719.753+/-326.343 χ^2/NDF : 107.5/77

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5001.279+/-1.274 χ^2/NDF : 400058.5/14

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5444.216+/-1.378 χ^2/NDF : 710213.7/14

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

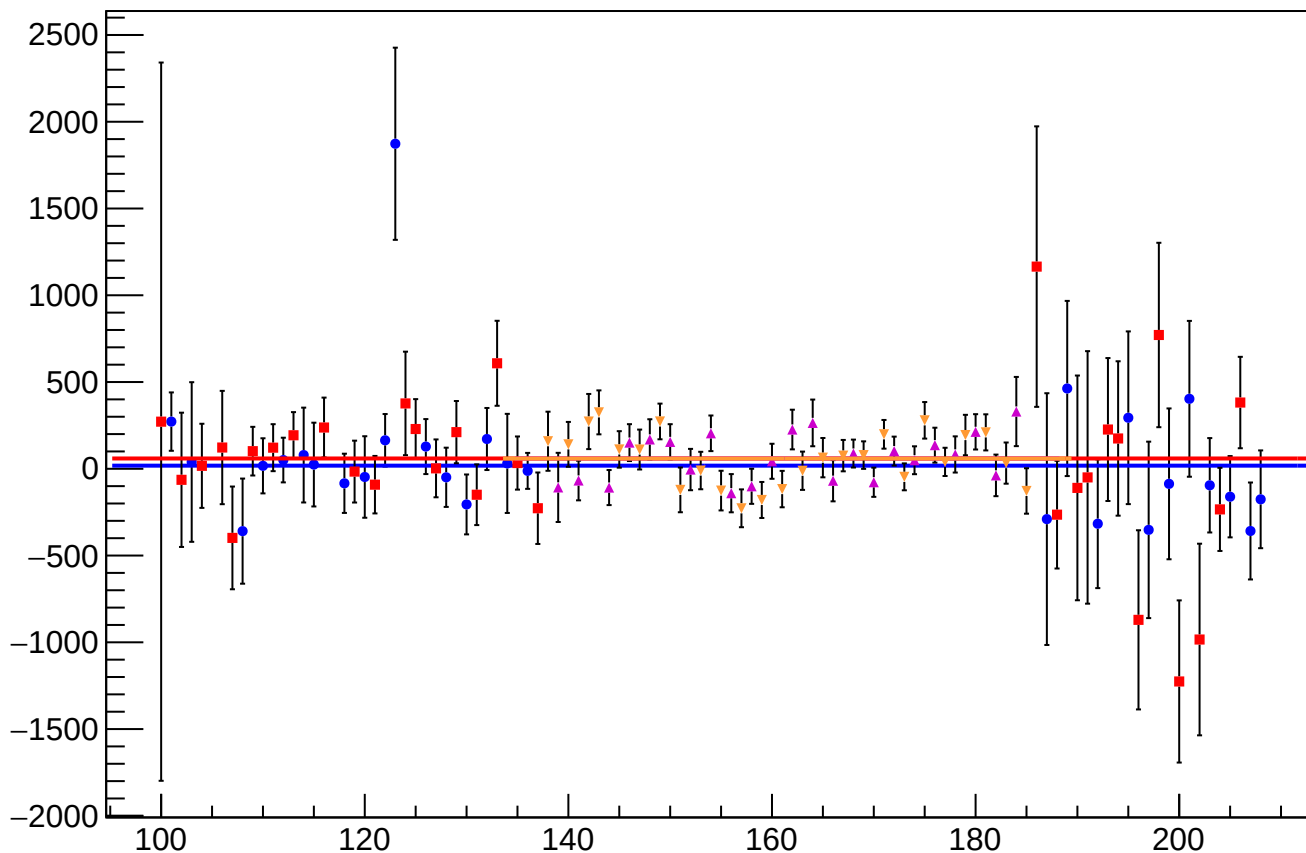
Right: 5205.259+/-0.935 χ^2/NDF : 1165972.0/29

In: 2203.958+/-0.330 χ^2/NDF : 6158039.3/37

Out: 2180.054+/-0.322 χ^2/NDF : 7368142.2/39

All: 2191.716+/-0.231 χ^2/NDF : 13528862.6/77

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.044 $\pm$ 40.368 χ^2 /NDF: 26.1/27

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 59.416 $\pm$ 40.500 χ^2 /NDF: 39.8/30

Left In: 59.235 $\pm$ 21.921 χ^2 /NDF:29.4/22

Left: 59.104 $\pm$ 15.216 χ^2 /NDF: 76.3/47

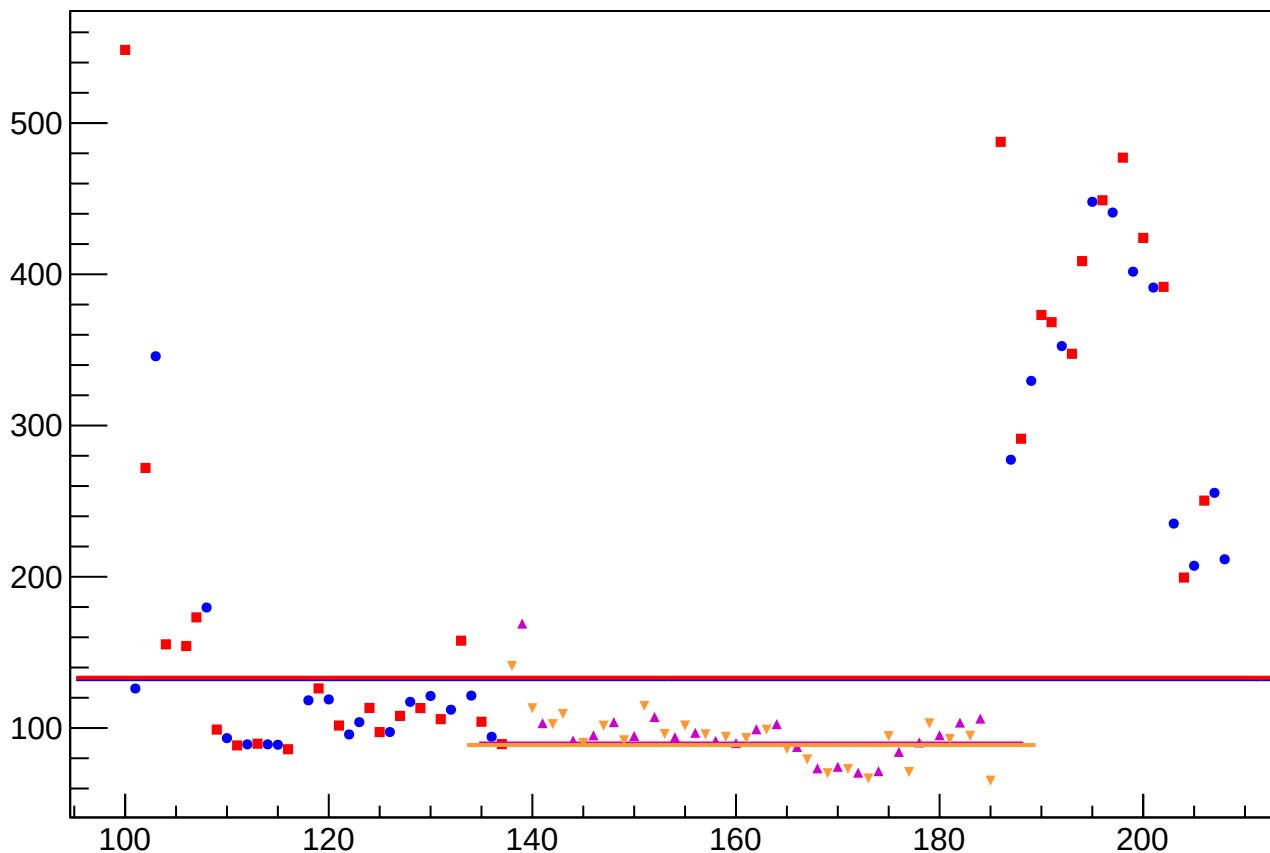
Right: 38.662 $\pm$ 28.591 χ^2 /NDF: 66.4/58

In: 49.854 $\pm$ 19.264 χ^2 /NDF:56.3/50

Out: 59.075 $\pm$ 18.739 χ^2 /NDF:86.7/55

All: 54.592 $\pm$ 13.432 χ^2 /NDF: 143.1/106

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 132.290 $\pm$ 0.029 χ^2 /NDF: 6606499.4/27

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 133.239 $\pm$ 0.029 χ^2 /NDF: 7616186.2/30

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

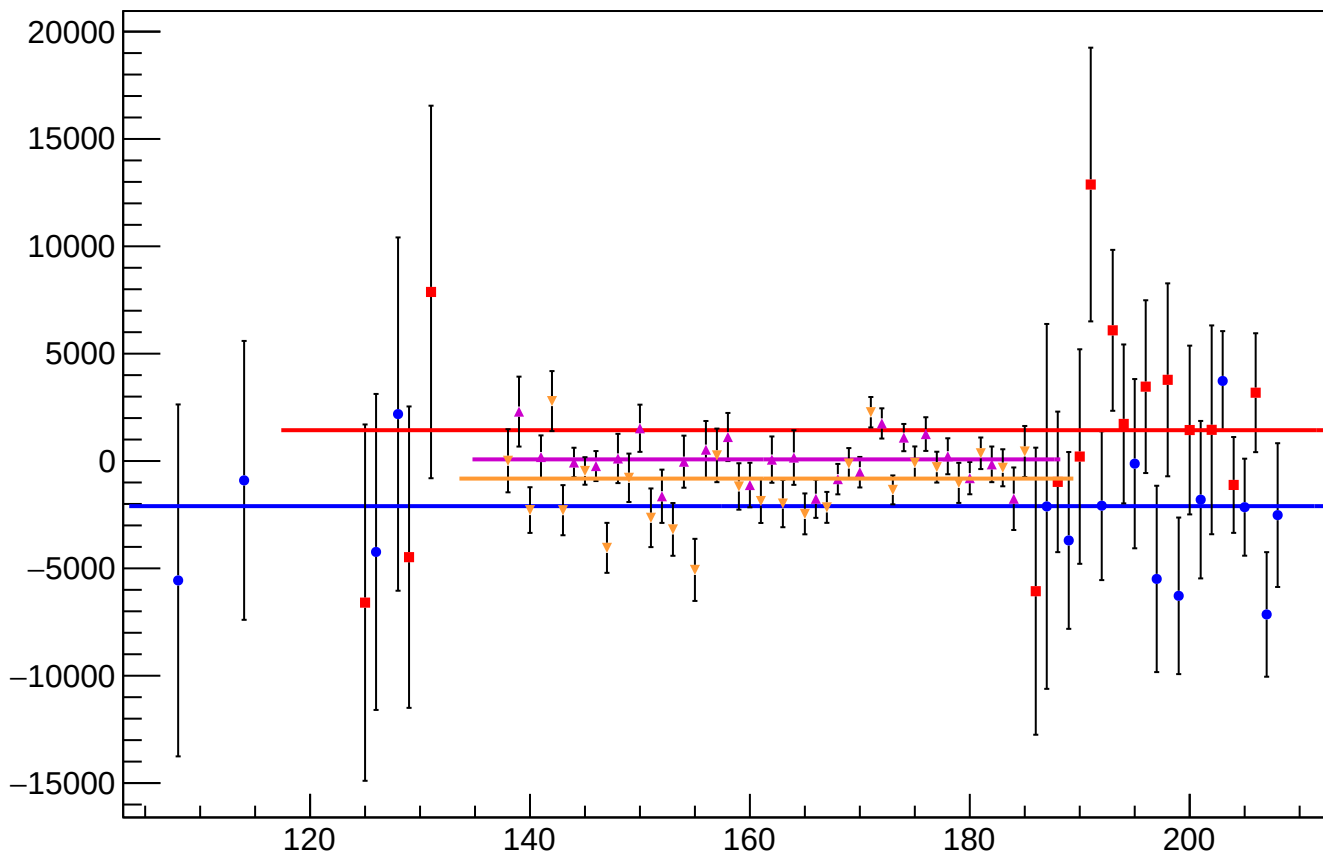
Right: 132.763 $\pm$ 0.020 χ^2 /NDF: 14223236.1/58

In: 99.450 $\pm$ 0.014 χ^2 /NDF: 9206325.0/50

Out: 98.273 $\pm$ 0.013 χ^2 /NDF: 10592402.6/55

All: 98.845 $\pm$ 0.009 χ^2 /NDF: 19802566.5/106

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2101.853 ± 960.238 $\chi^2/\text{NDF}: 12.2/14$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 1435.441 ± 1041.344 $\chi^2/\text{NDF}: 11.1/14$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

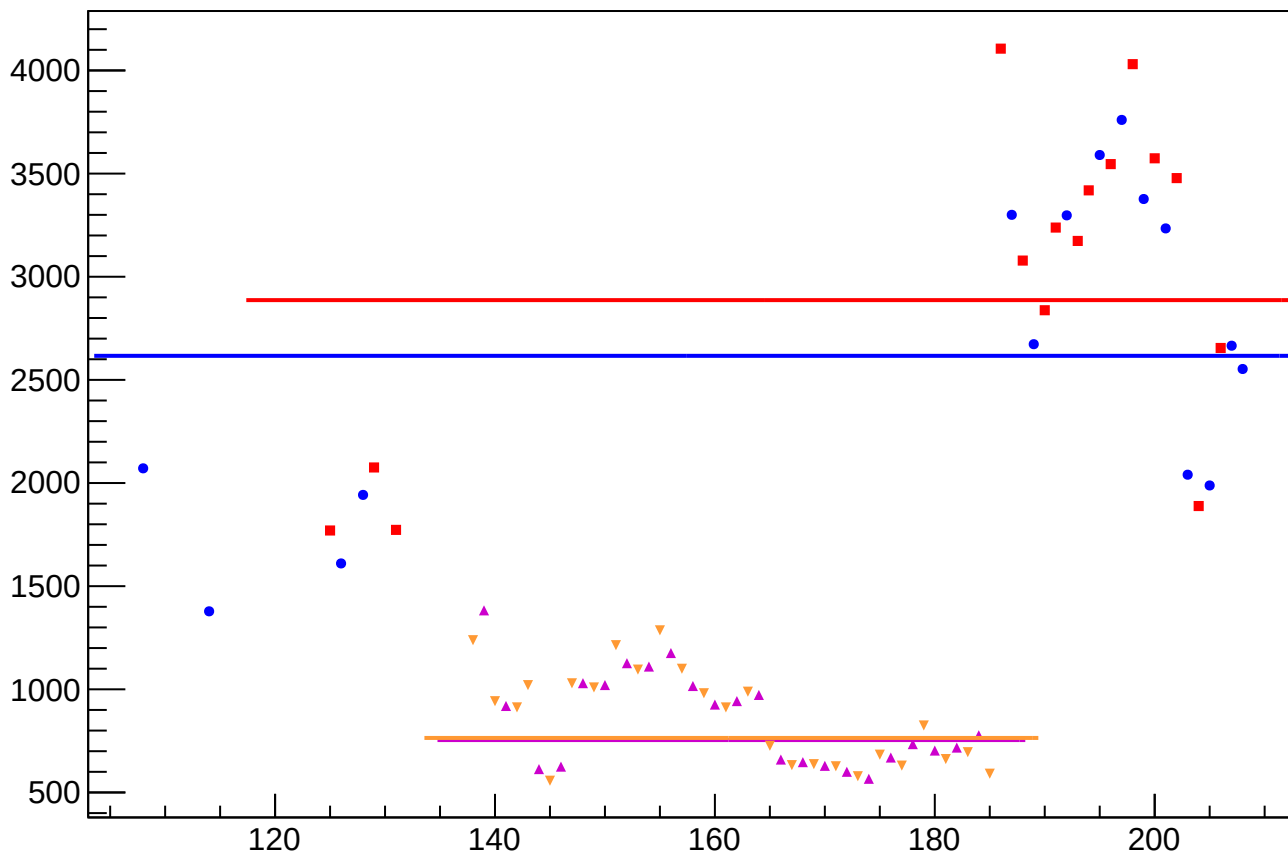
Right: -476.307 ± 705.925 $\chi^2/\text{NDF}: 29.5/29$

In: -3.094 ± 183.221 $\chi^2/\text{NDF}: 45.5/37$

Out: -750.291 ± 181.636 $\chi^2/\text{NDF}: 83.8/39$

All: -379.939 ± 128.993 $\chi^2/\text{NDF}: 137.7/77$

asym_sam3_correction_rms vs Slug, Sign Corrected



Left: 759.214 +/- 0.093 χ^2/NDF : 4332425.4/47

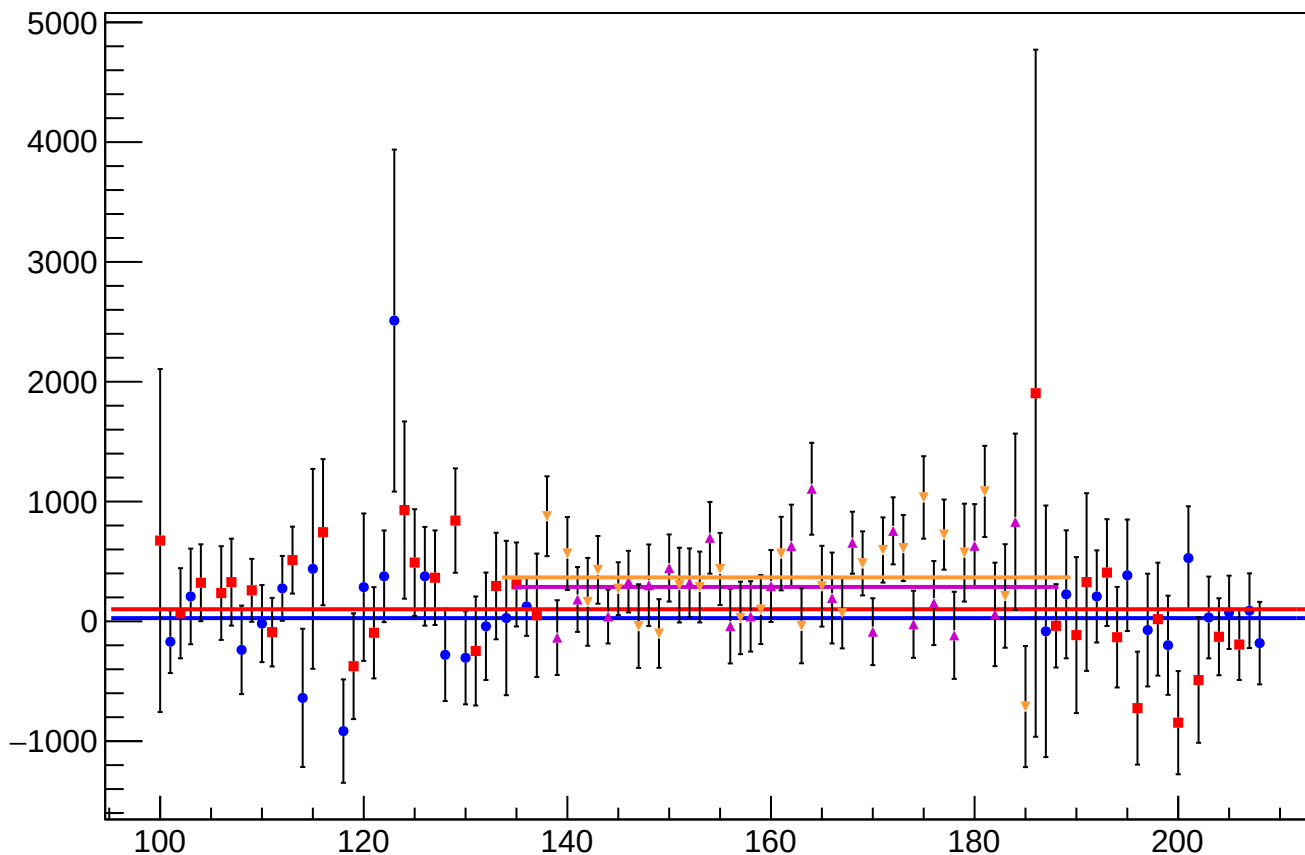
Right: 2740.707 +/- 0.499 χ^2/NDF : 1896209.7/29

In: 821.840 +/- 0.130 χ^2/NDF : 10171369.1/37

Out: 828.850 +/- 0.128 χ^2/NDF : 11287534.8/39

All: 825.375 +/- 0.091 χ^2/NDF : 21460380.4/77

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 26.904 $\pm$ 73.728 χ^2 /NDF: 17.9/27

Left Out: 367.028 $\pm$ 61.943 χ^2 /NDF:28.2/24

Right Out: 101.230 $\pm$ 72.856 χ^2 /NDF: 25.4/30

Left In: 287.246 $\pm$ 64.141 χ^2 /NDF:23.9/22

Left: 328.527 $\pm$ 44.557 χ^2 /NDF: 52.9/47

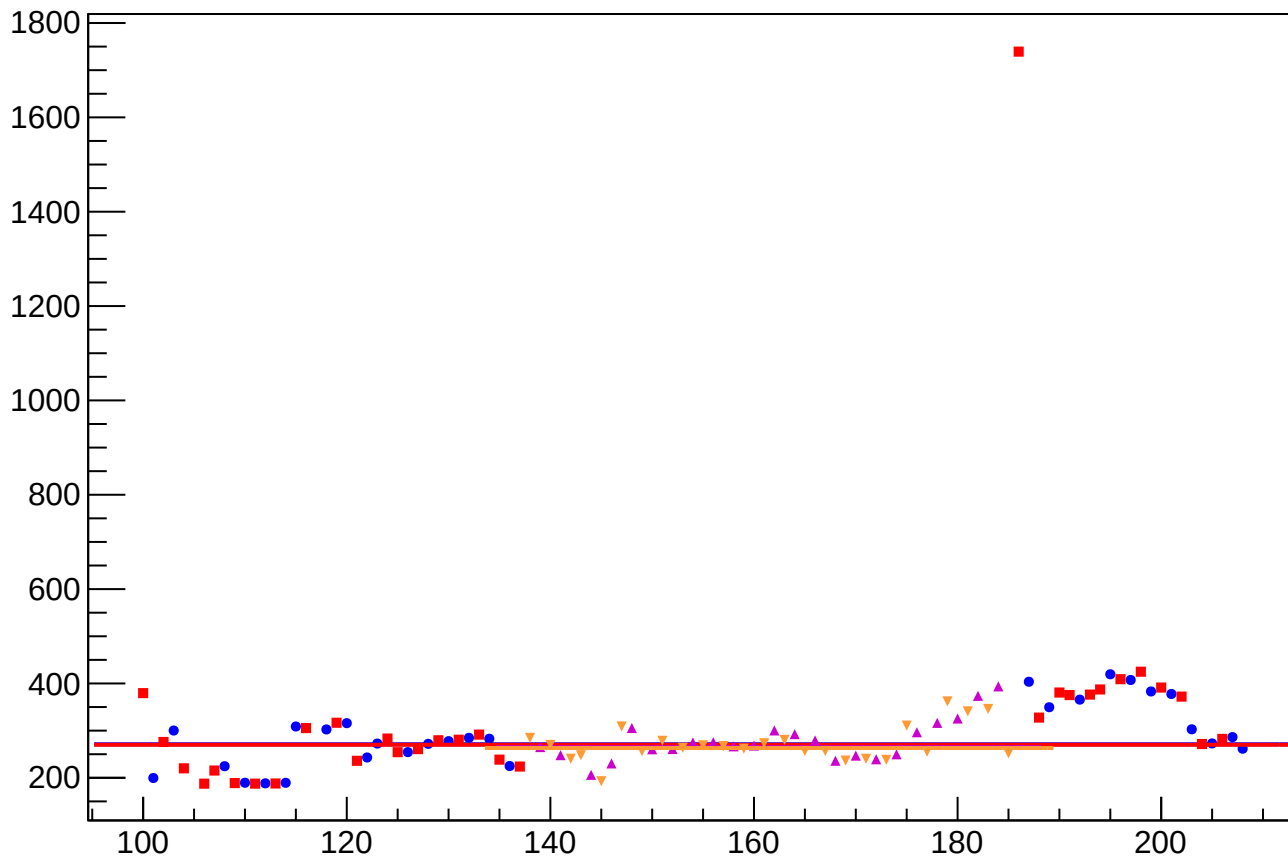
Right: 64.509 $\pm$ 51.822 χ^2 /NDF: 43.8/58

In: 175.093 $\pm$ 48.391 χ^2 /NDF:48.8/50

Out: 255.506 $\pm$ 47.192 χ^2 /NDF:61.3/55

All: 216.308 $\pm$ 33.786 χ^2 /NDF: 111.6/106

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.076+/-0.052 χ^2/NDF : 1518807.9/27

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 270.072+/-0.052 χ^2/NDF : 2388440.7/30

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

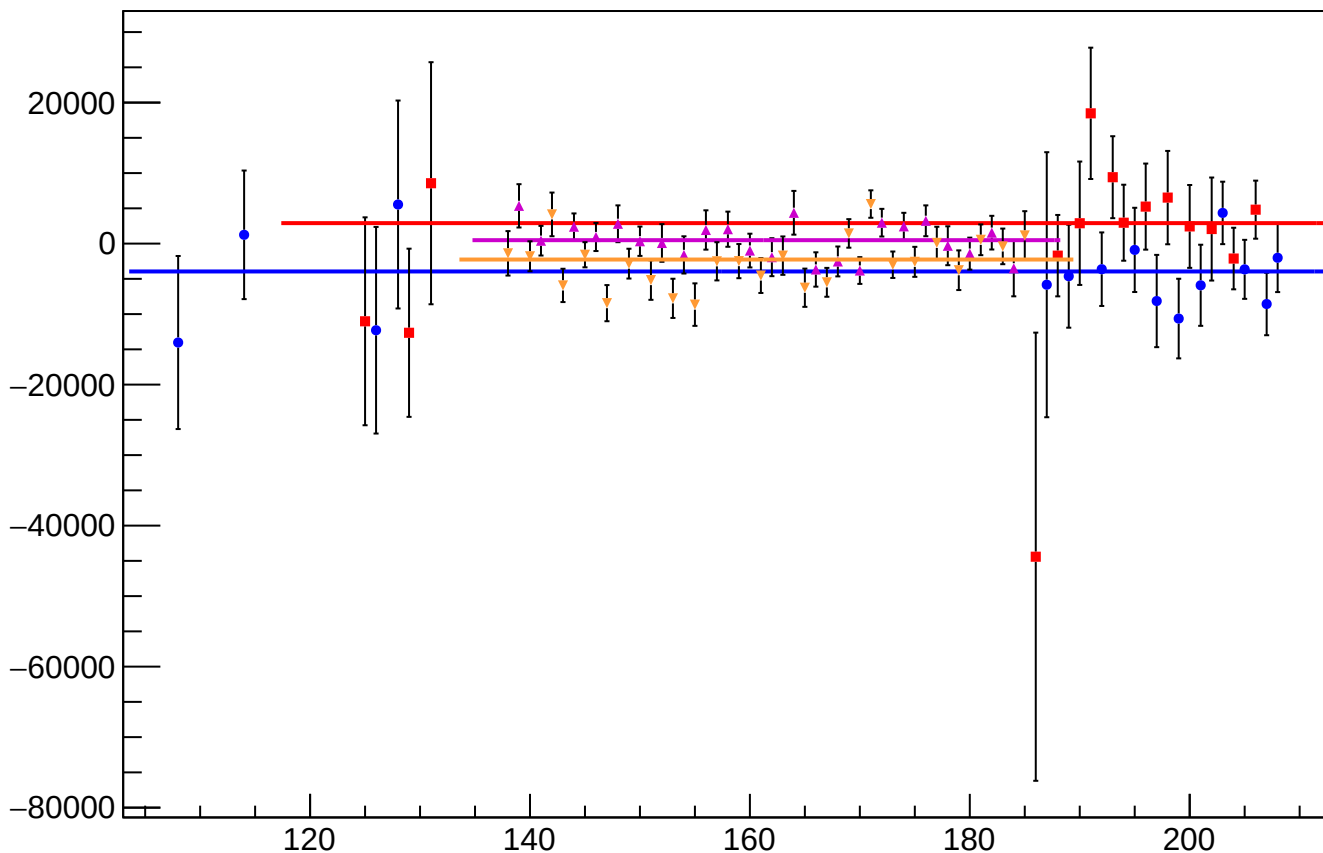
Right: 270.568+/-0.037 χ^2/NDF : 3907436.2/58

In: 267.573+/-0.034 χ^2/NDF : 2135760.3/50

Out: 266.027+/-0.033 χ^2/NDF : 3041287.4/55

All: 266.781+/-0.024 χ^2/NDF : 5178095.0/106

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3951.936 $\pm$ 1580.025 χ^2 /NDF: 8.7/14

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 2902.867 $\pm$ 1706.389 χ^2 /NDF: 11.6/14

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

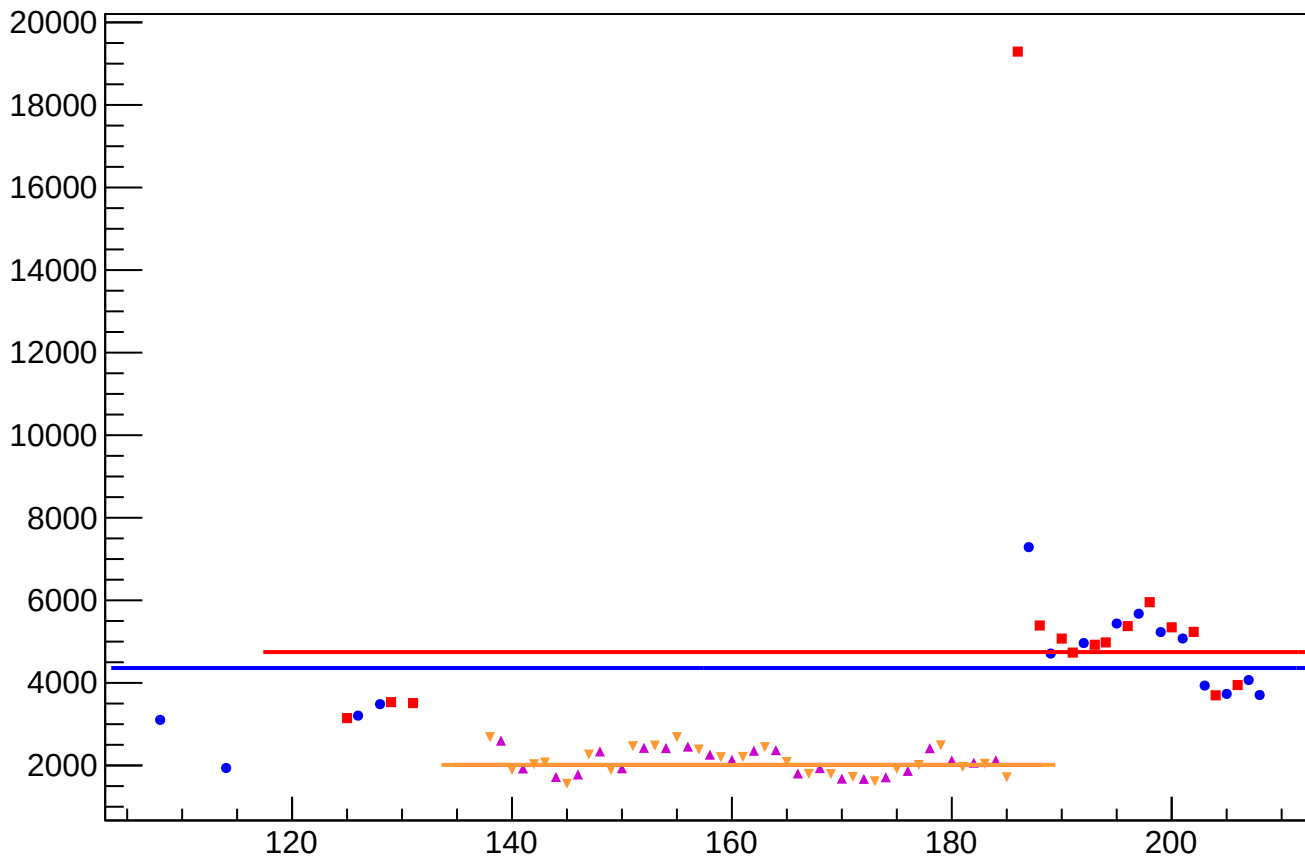
Right: -787.716 $\pm$ 1159.349 χ^2 /NDF: 29.0/29

In: 99.922 $\pm$ 465.801 χ^2 /NDF:40.7/37

Out: -1888.408 $\pm$ 457.902 χ^2 /NDF:72.4/39

All: -911.246 $\pm$ 326.542 χ^2 /NDF: 122.4/77

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4360.447 $\pm$ 1.117 χ^2 /NDF: 593878.8/14

Left Out: 2014.106 $\pm$ 0.336 χ^2 /NDF: 835656.9/24

Right Out: 4746.666 $\pm$ 1.207 χ^2 /NDF: 814805.0/14

Left In: 2013.245 $\pm$ 0.345 χ^2 /NDF: 662077.8/22

Left: 2013.686 $\pm$ 0.241 χ^2 /NDF: 1497737.9/47

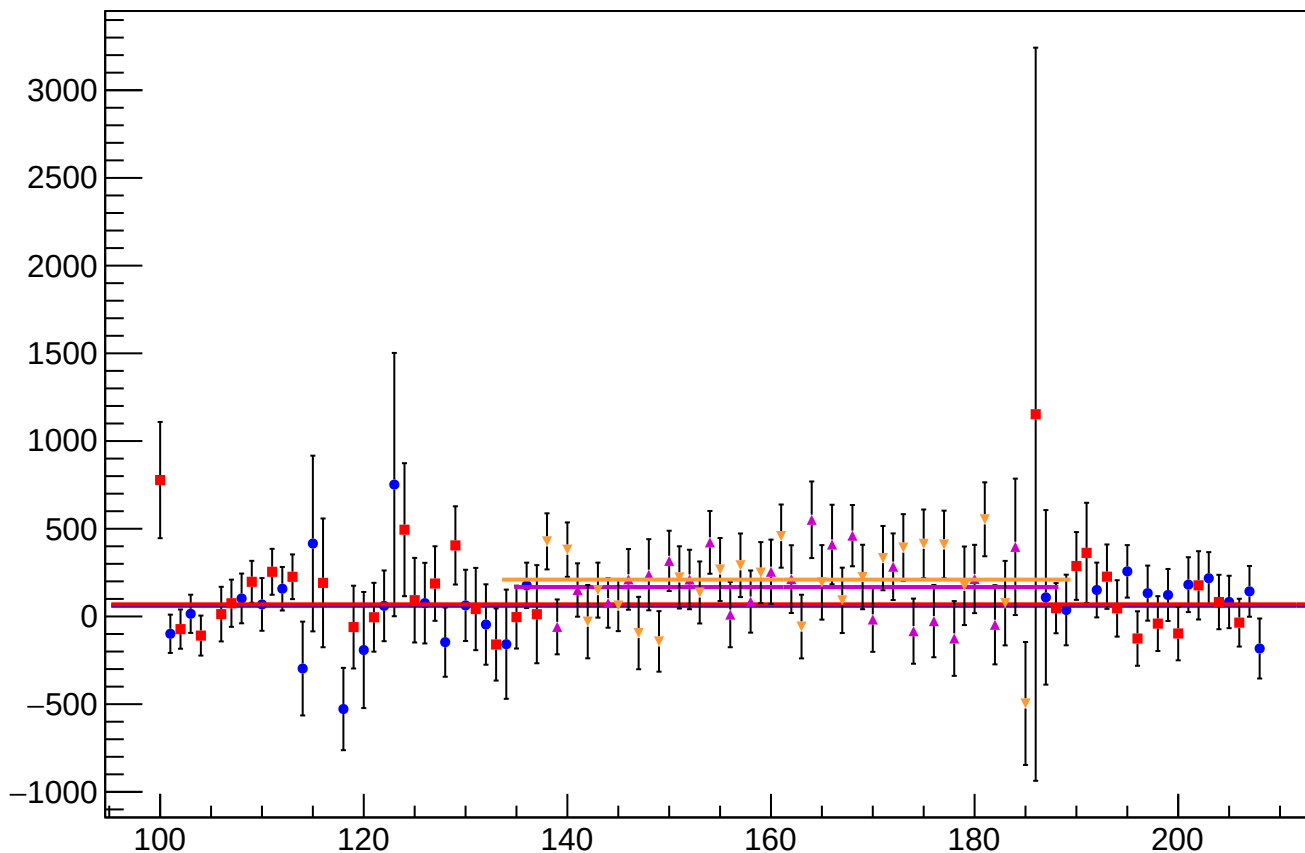
Right: 4538.728 $\pm$ 0.820 χ^2 /NDF: 1463845.7/29

In: 2217.242 $\pm$ 0.329 χ^2 /NDF: 5286060.1/37

Out: 2210.875 $\pm$ 0.324 χ^2 /NDF: 6409912.2/39

All: 2214.004 $\pm$ 0.231 χ^2 /NDF: 11696162.4/77

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 61.073+/-32.101 χ^2/NDF : 22.2/27

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 69.157+/-30.719 χ^2/NDF : 26.8/30

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

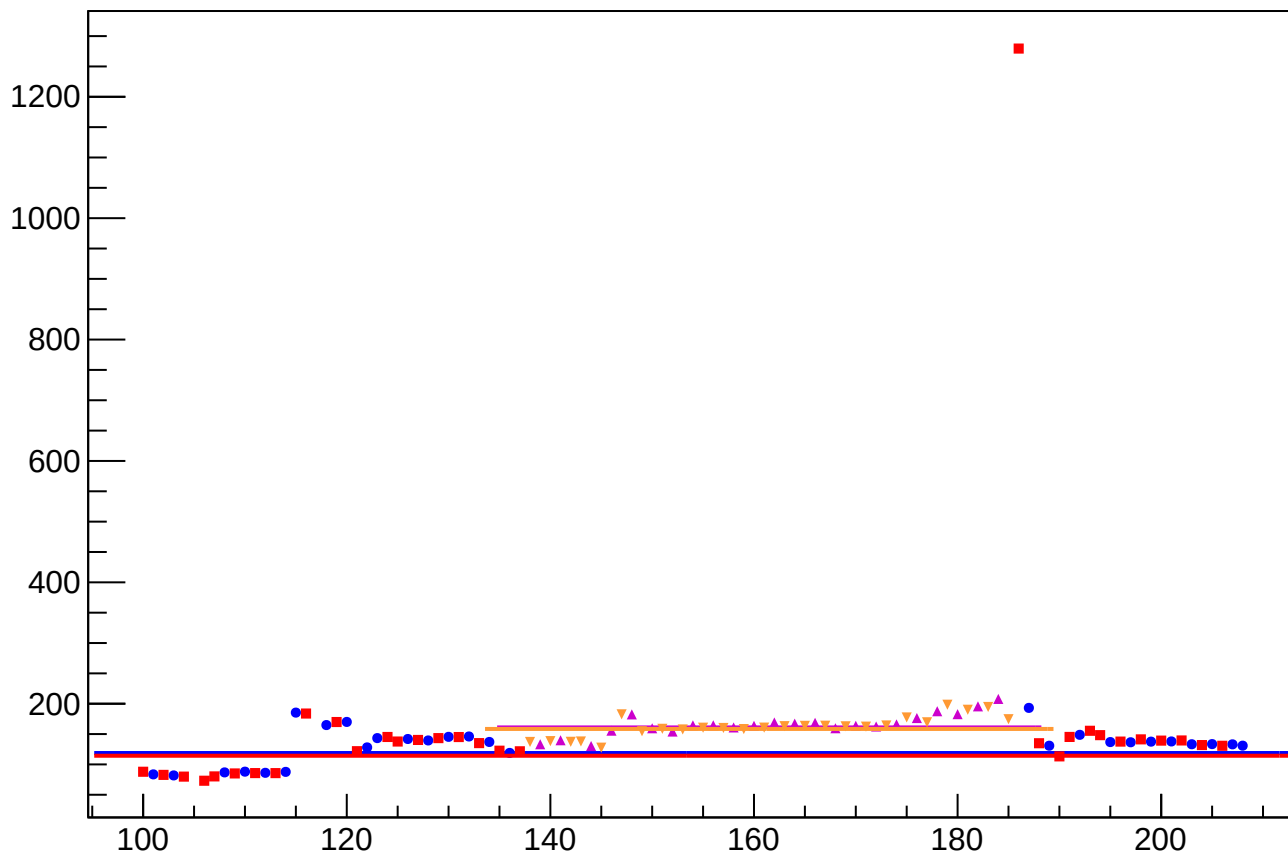
Right: 65.293+/-22.194 χ^2/NDF : 49.1/58

In: 104.561+/-24.712 χ^2/NDF :47.8/50

Out: 126.489+/-23.659 χ^2/NDF :62.9/55

All: 116.002+/-17.090 χ^2/NDF : 111.2/106

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 118.750 $\pm$ 0.023 χ^2 /NDF: 1376935.5/27

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 114.284 $\pm$ 0.022 χ^2 /NDF: 2402220.7/30

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

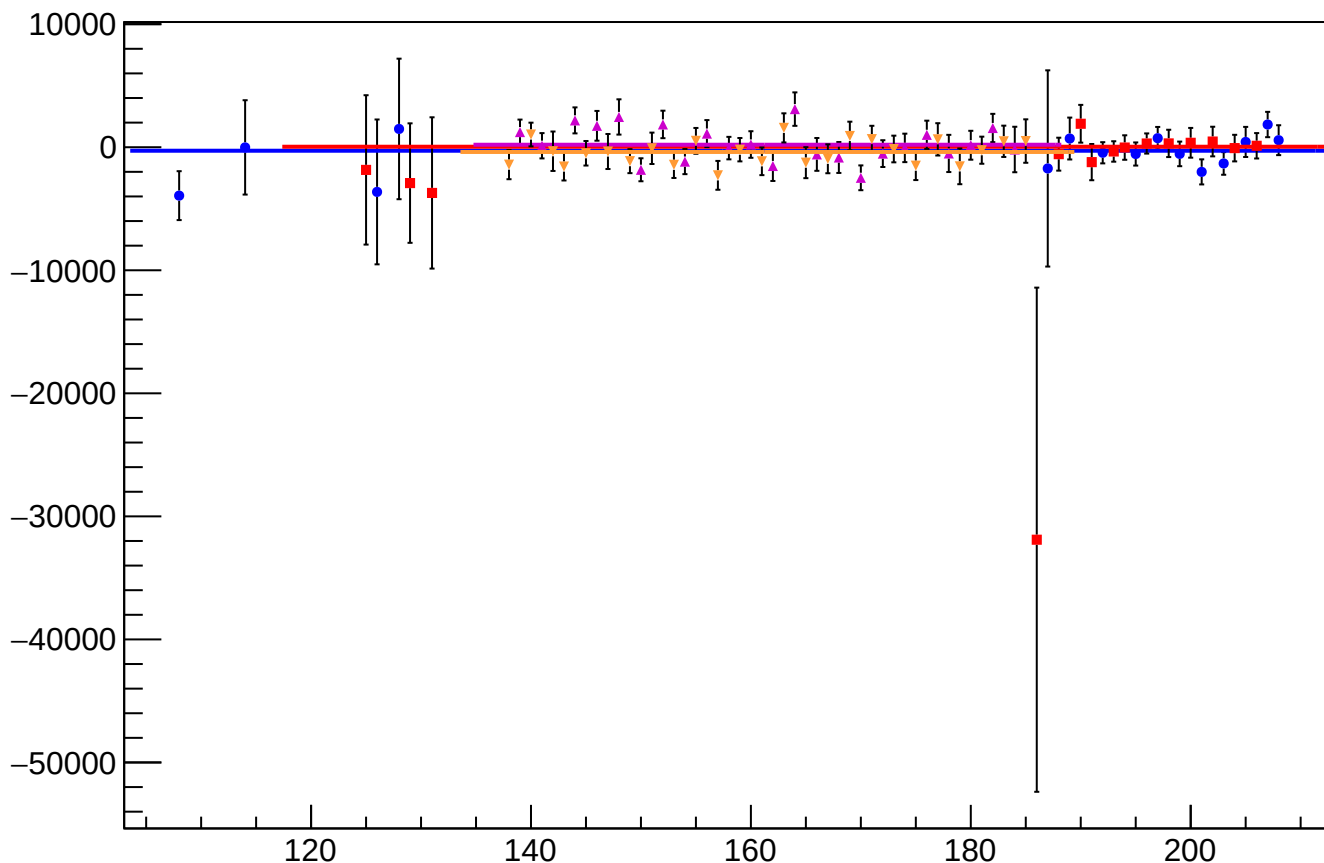
Right: 116.419 $\pm$ 0.016 χ^2 /NDF: 3799370.0/58

In: 135.941 $\pm$ 0.017 χ^2 /NDF: 3164453.2/50

Out: 132.247 $\pm$ 0.017 χ^2 /NDF: 4517706.7/55

All: 134.014 $\pm$ 0.012 χ^2 /NDF: 7705467.6/106

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -284.569+/-318.503 χ^2/NDF : 14.8/14

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 40.192+/-324.866 χ^2/NDF : 6.3/14

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

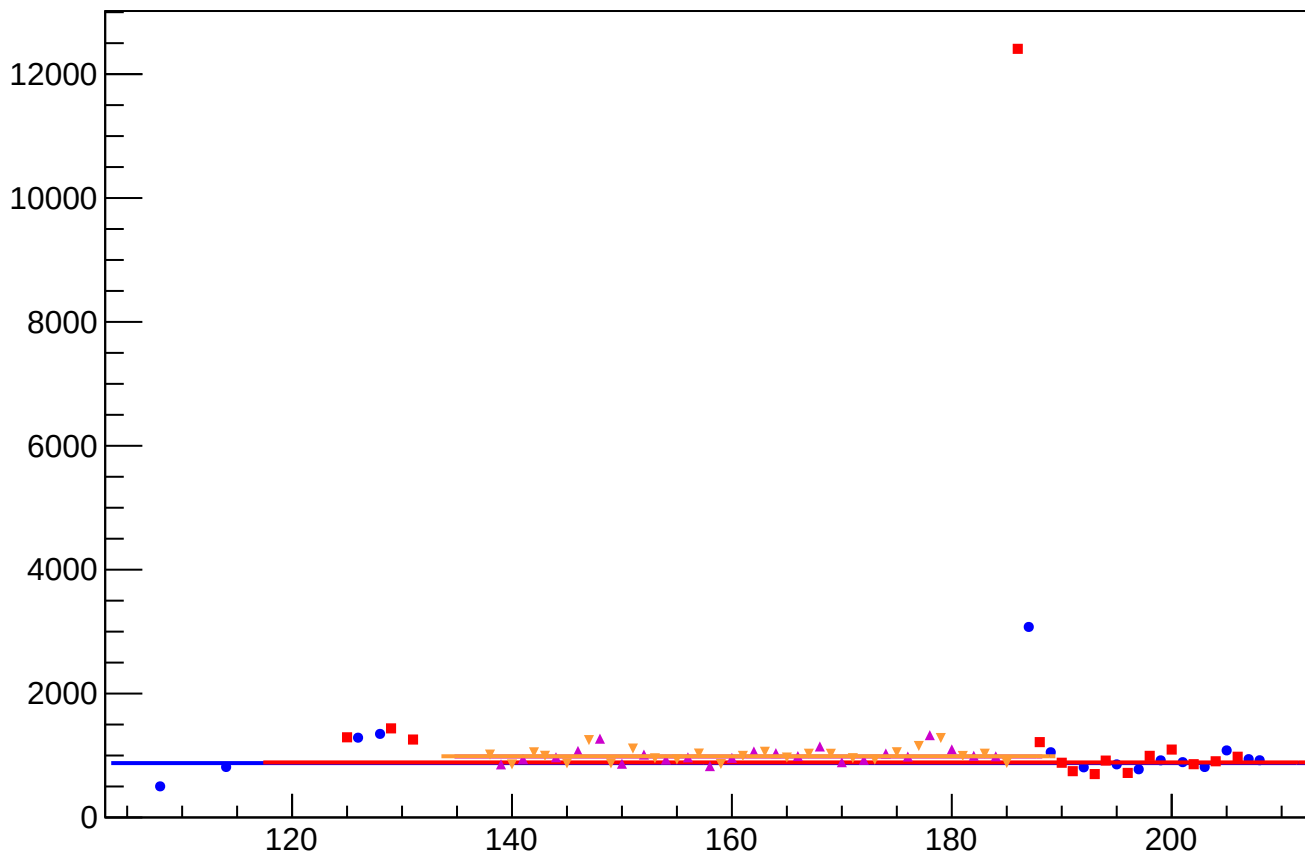
Right: -125.400+/-227.432 χ^2/NDF : 21.6/29

In: 28.318+/-190.374 χ^2/NDF : 51.8/37

Out: -241.542+/-188.709 χ^2/NDF : 25.5/39

All: -107.797+/-134.022 χ^2/NDF : 78.3/77

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 877.456+/-0.225 χ^2/NDF : 386857.0/14

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 888.637+/-0.230 χ^2/NDF : 1097508.9/14

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

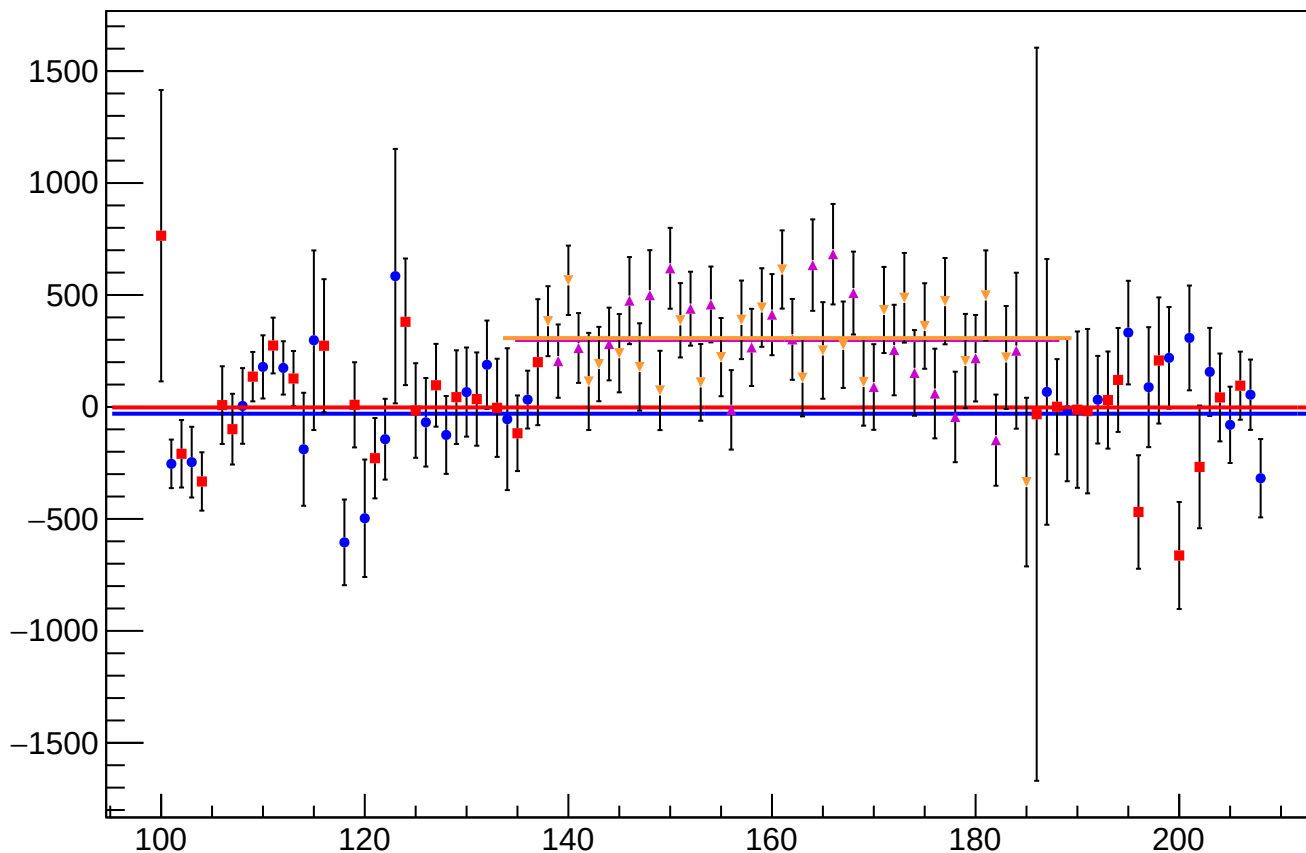
Right: 882.936+/-0.161 χ^2/NDF : 1485573.7/29

In: 945.867+/-0.135 χ^2/NDF : 946678.1/37

Out: 954.385+/-0.133 χ^2/NDF : 1598107.8/39

All: 950.164+/-0.095 χ^2/NDF : 2546805.5/77

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -30.159 ± 35.342 χ^2/NDF : 38.3/27

Left Out: 307.487 ± 37.278 χ^2/NDF : 20.7/24

Right Out: -2.157 ± 34.380 χ^2/NDF : 36.6/30

Left In: 299.192 ± 39.009 χ^2/NDF : 28.5/22

Left: 303.528 ± 26.951 χ^2/NDF : 49.3/47

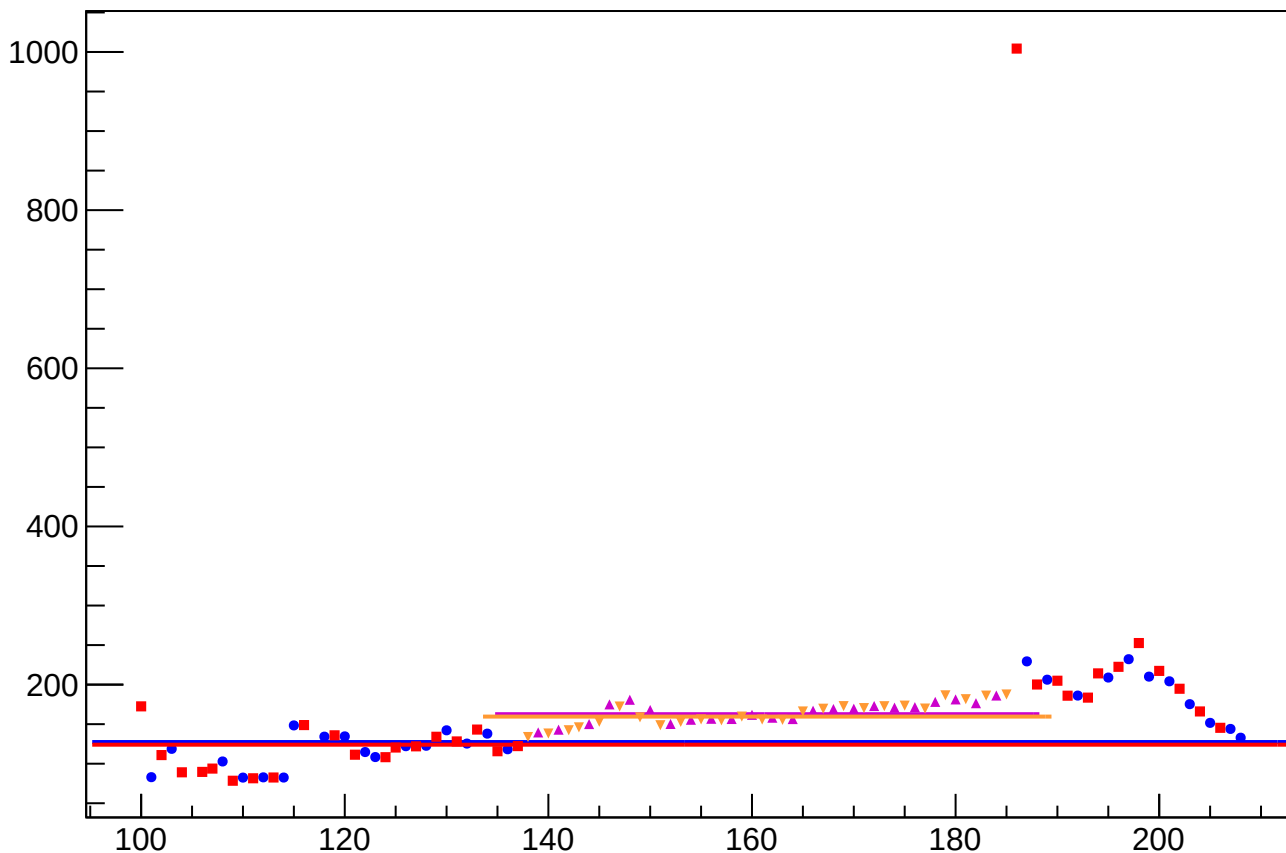
Right: -15.772 ± 24.643 χ^2/NDF : 75.2/58

In: 118.310 ± 26.191 χ^2/NDF : 105.9/50

Out: 140.165 ± 25.273 χ^2/NDF : 94.6/55

All: 129.627 ± 18.187 χ^2/NDF : 200.9/106

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 127.389 $\pm$ 0.025 χ^2 /NDF: 2560967.4/27

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 124.043 $\pm$ 0.024 χ^2 /NDF: 3926413.7/30

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

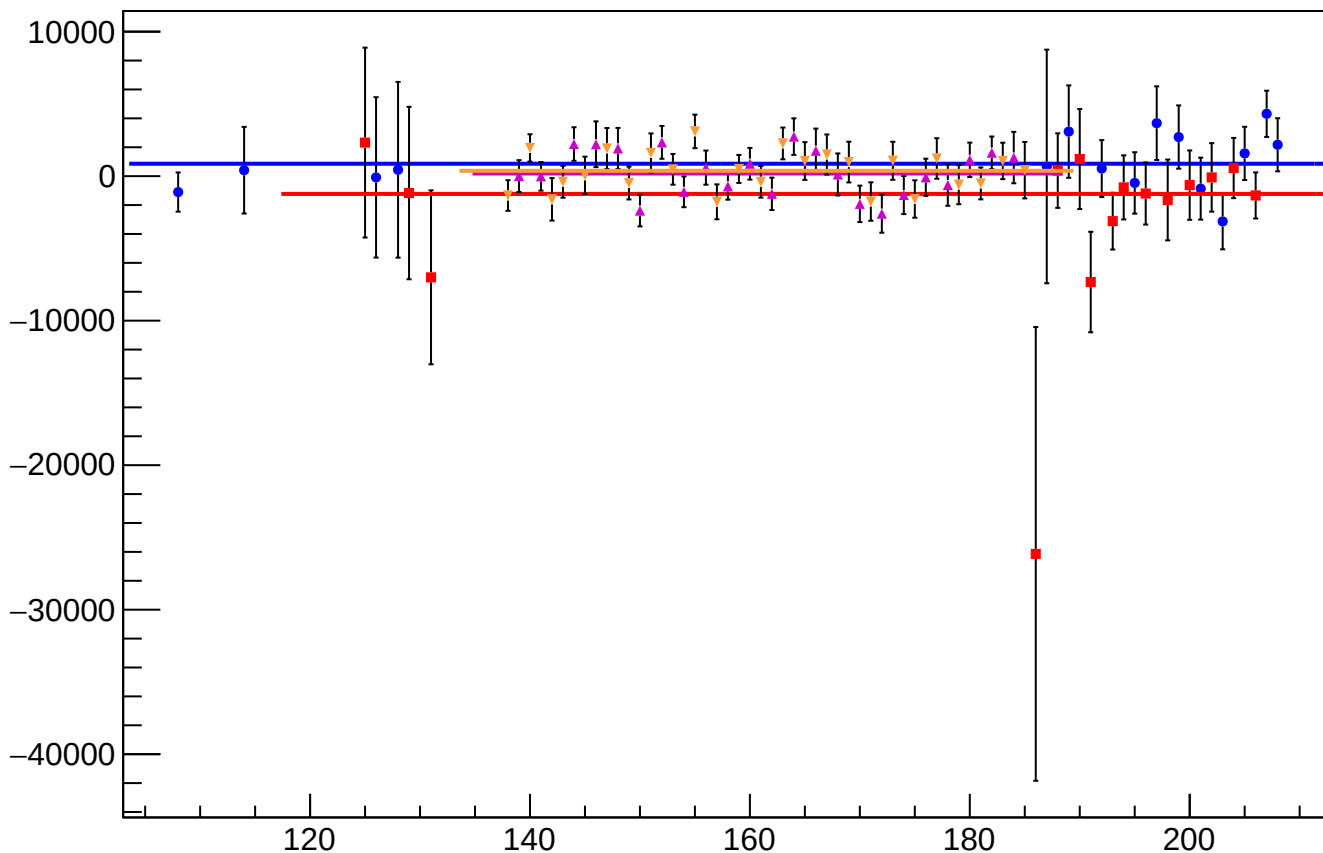
Right: 125.670 $\pm$ 0.017 χ^2 /NDF: 6496591.8/58

In: 143.265 $\pm$ 0.019 χ^2 /NDF:3655778.2/50

Out: 140.372 $\pm$ 0.018 χ^2 /NDF:5195688.0/55

All: 141.767 $\pm$ 0.013 χ^2 /NDF: 8864103.6/106

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 860.650+/-564.569 χ^2/NDF : 15.2/14

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -1228.863+/-677.069 χ^2/NDF : 9.7/14

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

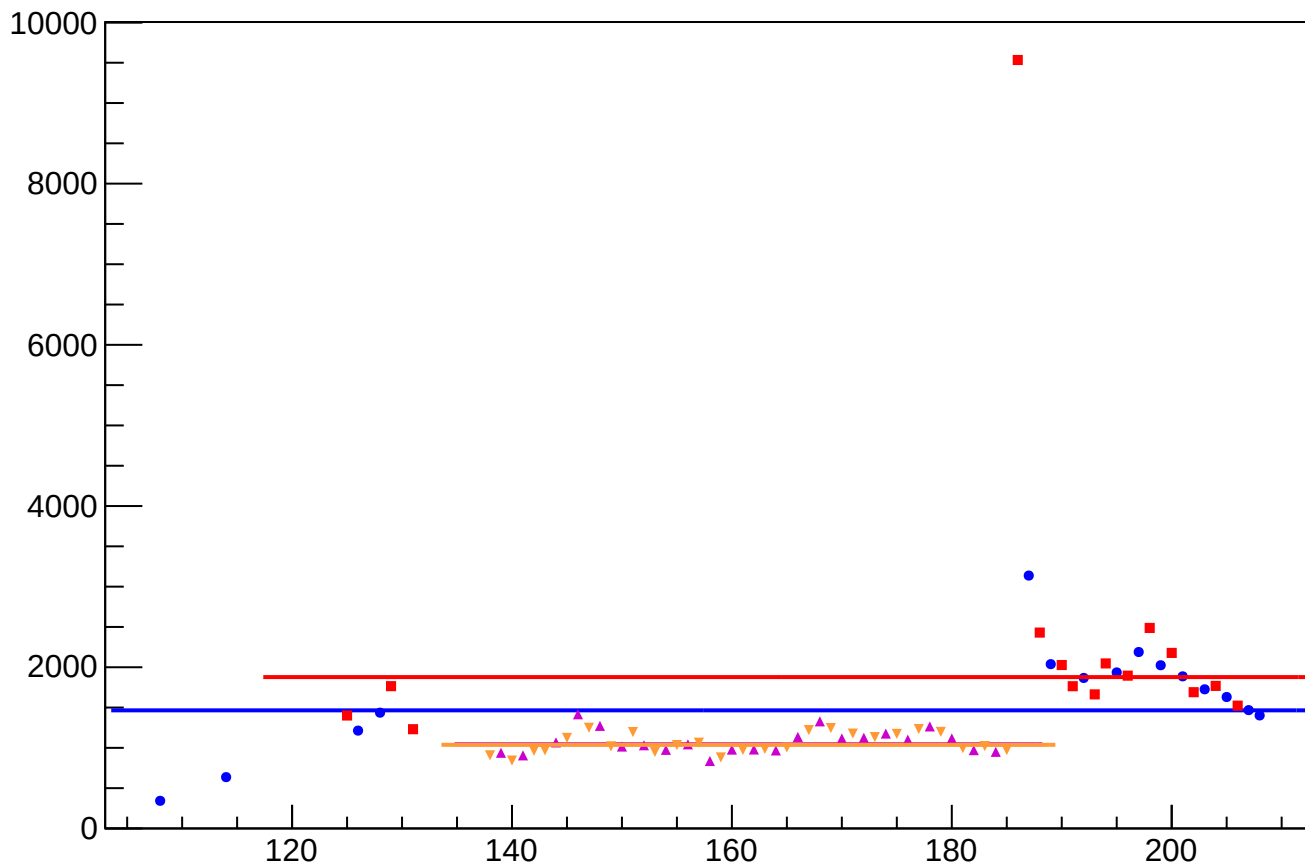
Right: 3.675+/-433.605 χ^2/NDF : 30.5/29

In: 295.863+/-230.313 χ^2/NDF :52.9/37

Out: 186.861+/-229.150 χ^2/NDF :45.1/39

All: 241.086+/-162.443 χ^2/NDF : 98.1/77

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1465.245+/-0.399 χ^2/NDF : 2281426.7/14

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1877.911+/-0.479 χ^2/NDF : 886006.3/14

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

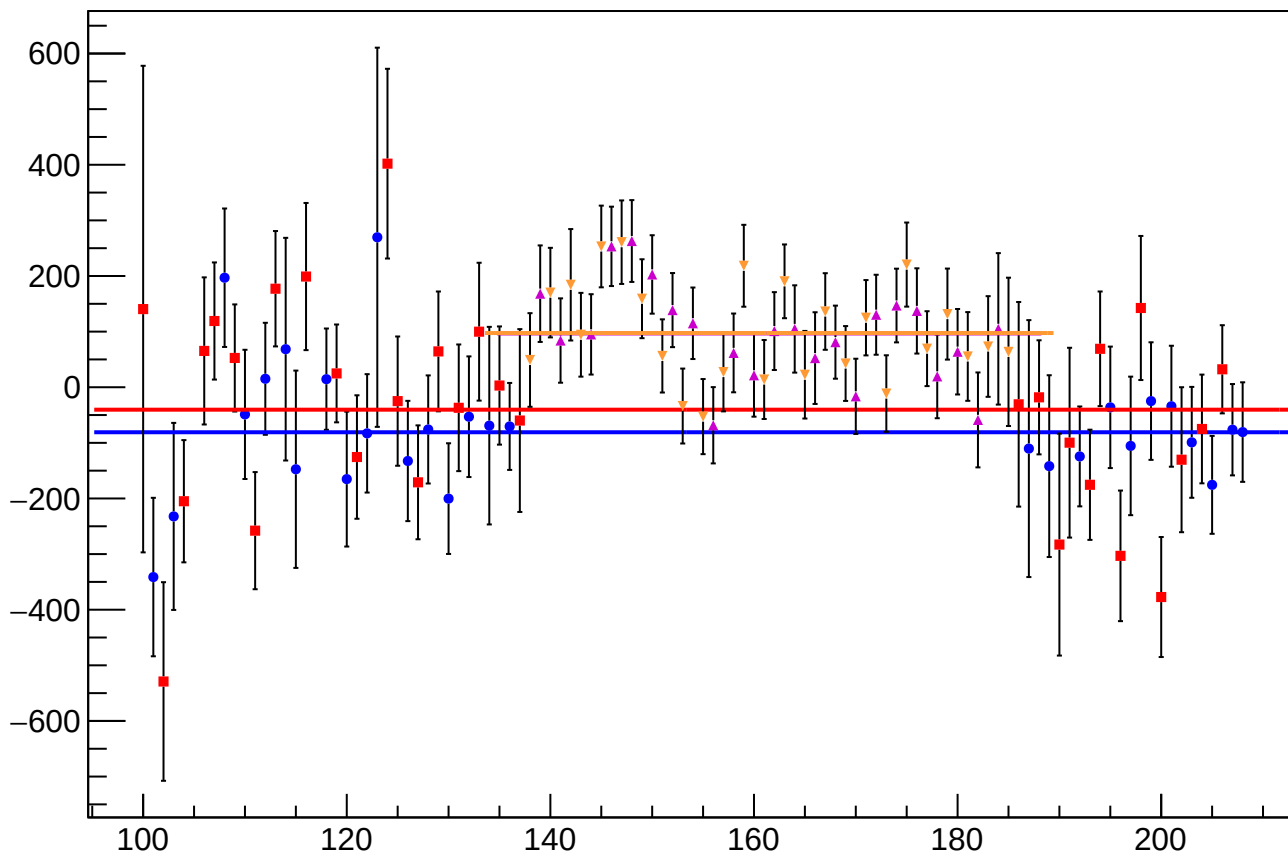
Right: 1634.493+/-0.307 χ^2/NDF : 3605676.8/29

In: 1114.725+/-0.163 χ^2/NDF : 3749600.2/37

Out: 1133.932+/-0.162 χ^2/NDF : 4108199.6/39

All: 1124.377+/-0.115 χ^2/NDF : 7864789.4/77

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -80.943 ± 21.118 χ^2/NDF : 17.5/27

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -40.358 ± 20.834 χ^2/NDF : 60.4/30

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

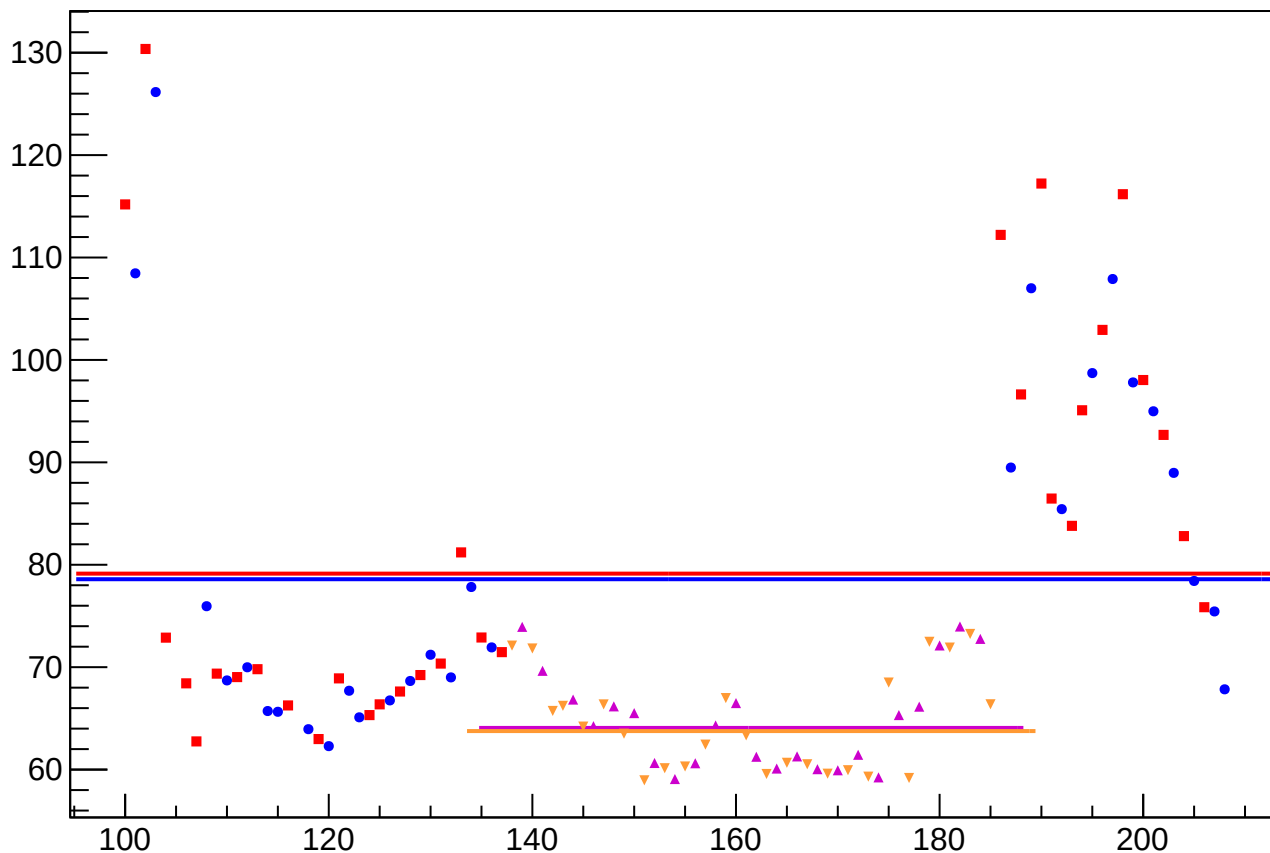
Right: -60.375 ± 14.831 χ^2/NDF : 79.8/58

In: 35.191 ± 12.427 χ^2/NDF : 92.9/50

Out: 50.896 ± 12.109 χ^2/NDF : 125.4/55

All: 43.247 ± 8.672 χ^2/NDF : 219.2/106

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 78.588 $\pm$ 0.015 χ^2 /NDF: 915098.7/27

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 79.134 $\pm$ 0.015 χ^2 /NDF: 1094746.3/30

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

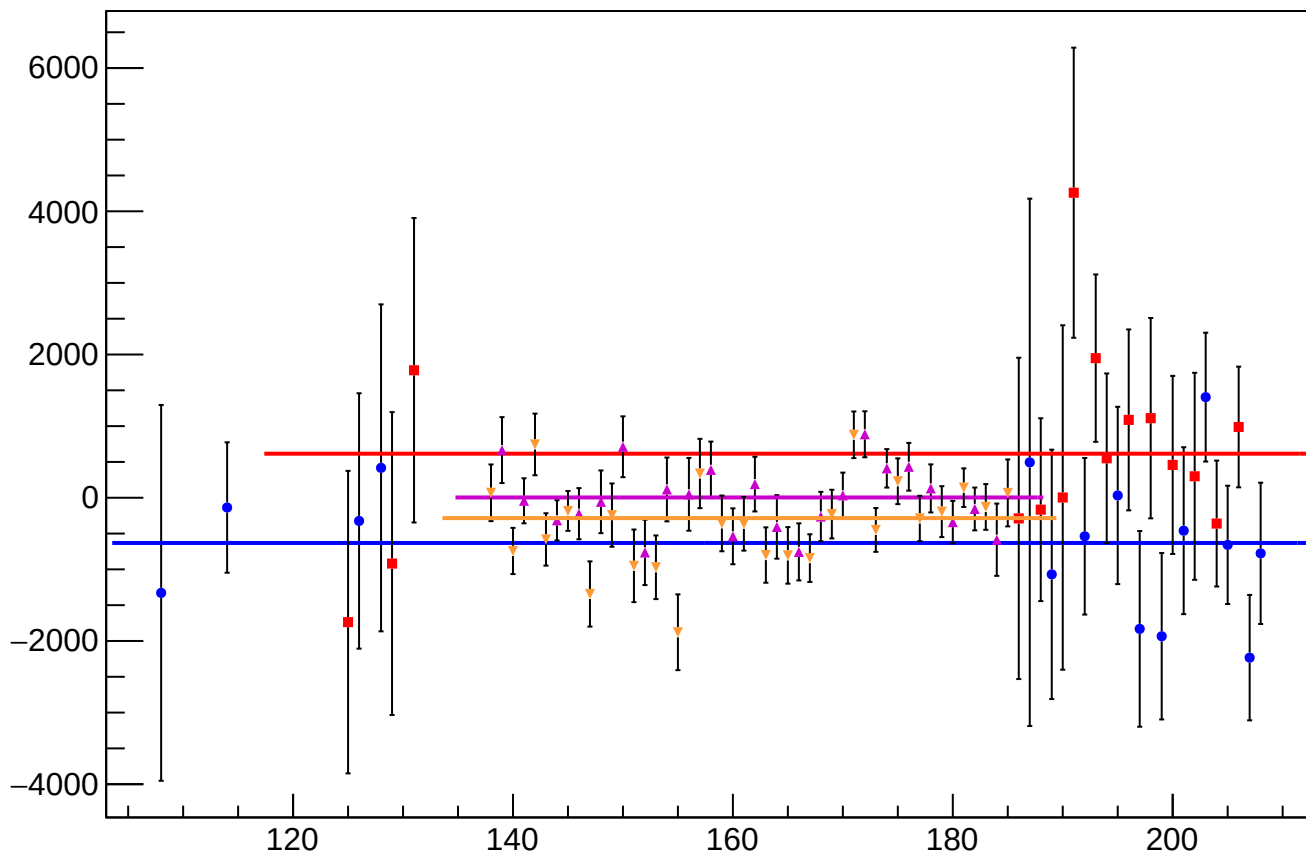
Right: 78.865 $\pm$ 0.010 χ^2 /NDF: 2010523.2/58

In: 69.096 $\pm$ 0.009 χ^2 /NDF:1697804.6/50

Out: 68.954 $\pm$ 0.009 χ^2 /NDF:2008670.2/55

All: 69.023 $\pm$ 0.006 χ^2 /NDF: 3706608.9/106

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -631.288 ± 304.327 $\chi^2/\text{NDF}: 11.6/14$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 615.284 ± 346.916 $\chi^2/\text{NDF}: 9.0/14$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

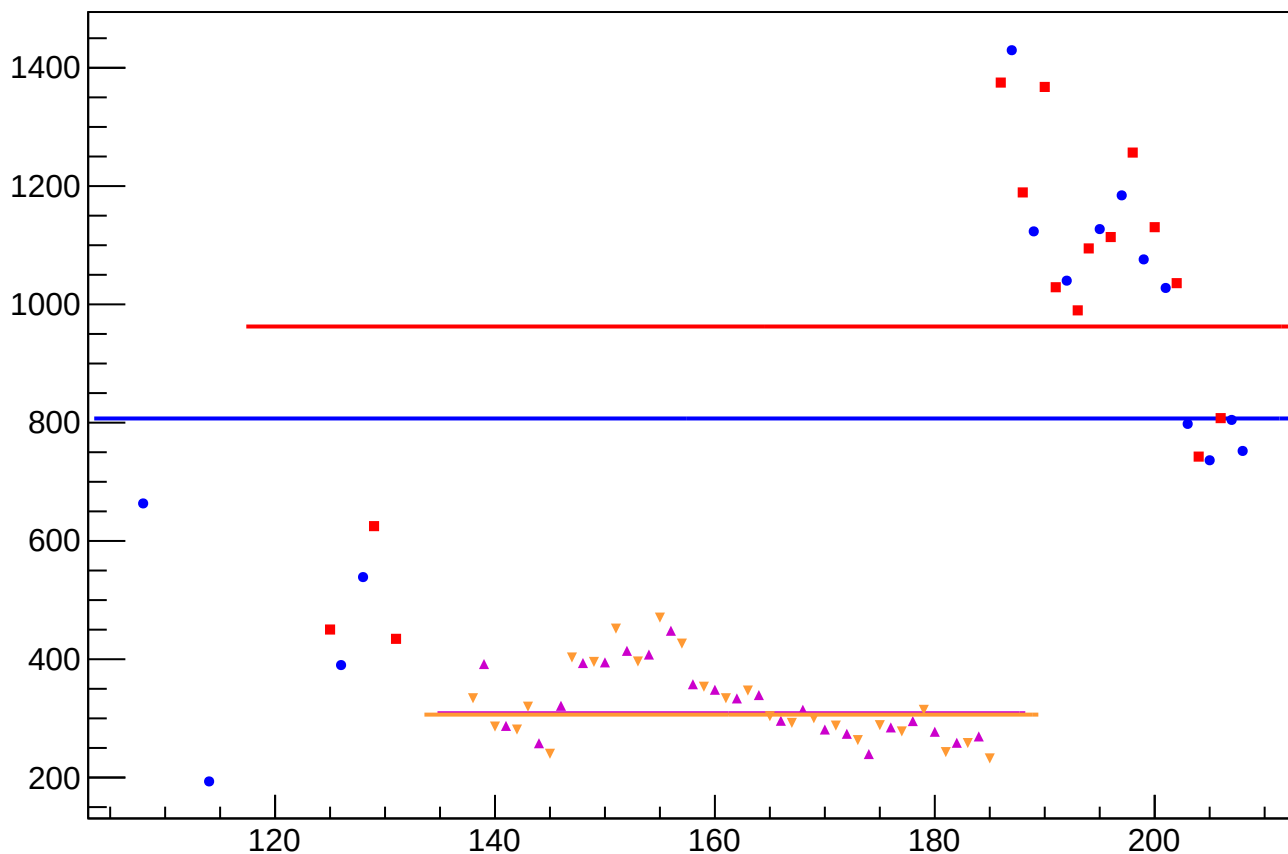
Right: -89.176 ± 228.776 $\chi^2/\text{NDF}: 27.9/29$

In: -32.418 ± 72.898 $\chi^2/\text{NDF}: 48.1/37$

Out: -246.427 ± 71.185 $\chi^2/\text{NDF}: 70.5/39$

All: -141.967 ± 50.930 $\chi^2/\text{NDF}: 122.9/77$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 807.077+/-0.215 χ^2/NDF : 1751774.9/14

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 962.584+/-0.245 χ^2/NDF : 859156.5/14

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

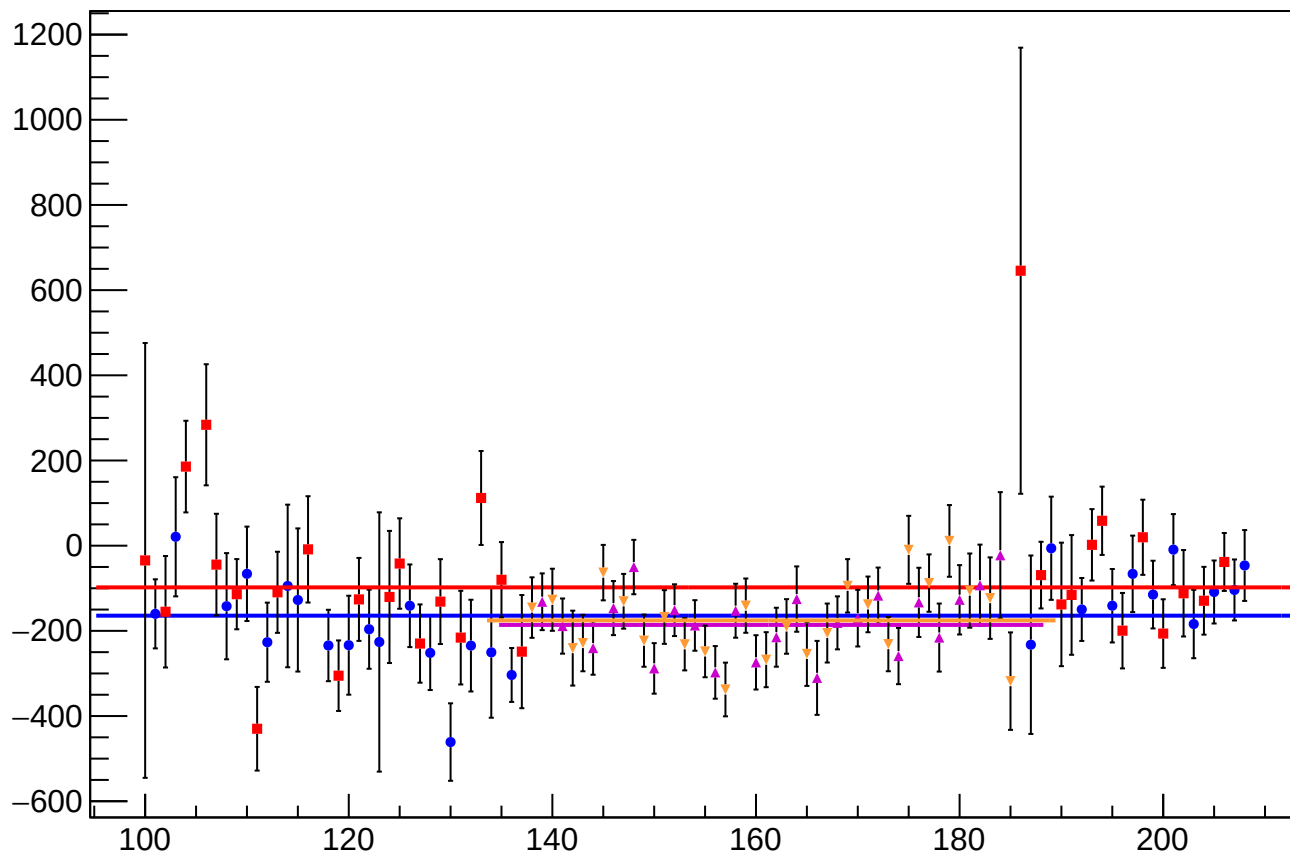
Right: 874.704+/-0.162 χ^2/NDF : 2838034.4/29

In: 337.321+/-0.052 χ^2/NDF : 7810112.5/37

Out: 333.993+/-0.050 χ^2/NDF : 8929722.0/39

All: 335.617+/-0.036 χ^2/NDF : 16741969.4/77

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -164.349 ± 17.904 χ^2/NDF : 32.0/27

Left Out: -175.471 ± 13.846 χ^2/NDF : 34.6/24

Right Out: -97.902 ± 17.996 χ^2/NDF : 54.8/30

Left In: -186.047 ± 14.315 χ^2/NDF : 23.6/22

Left: -180.583 ± 9.952 χ^2/NDF : 58.5/47

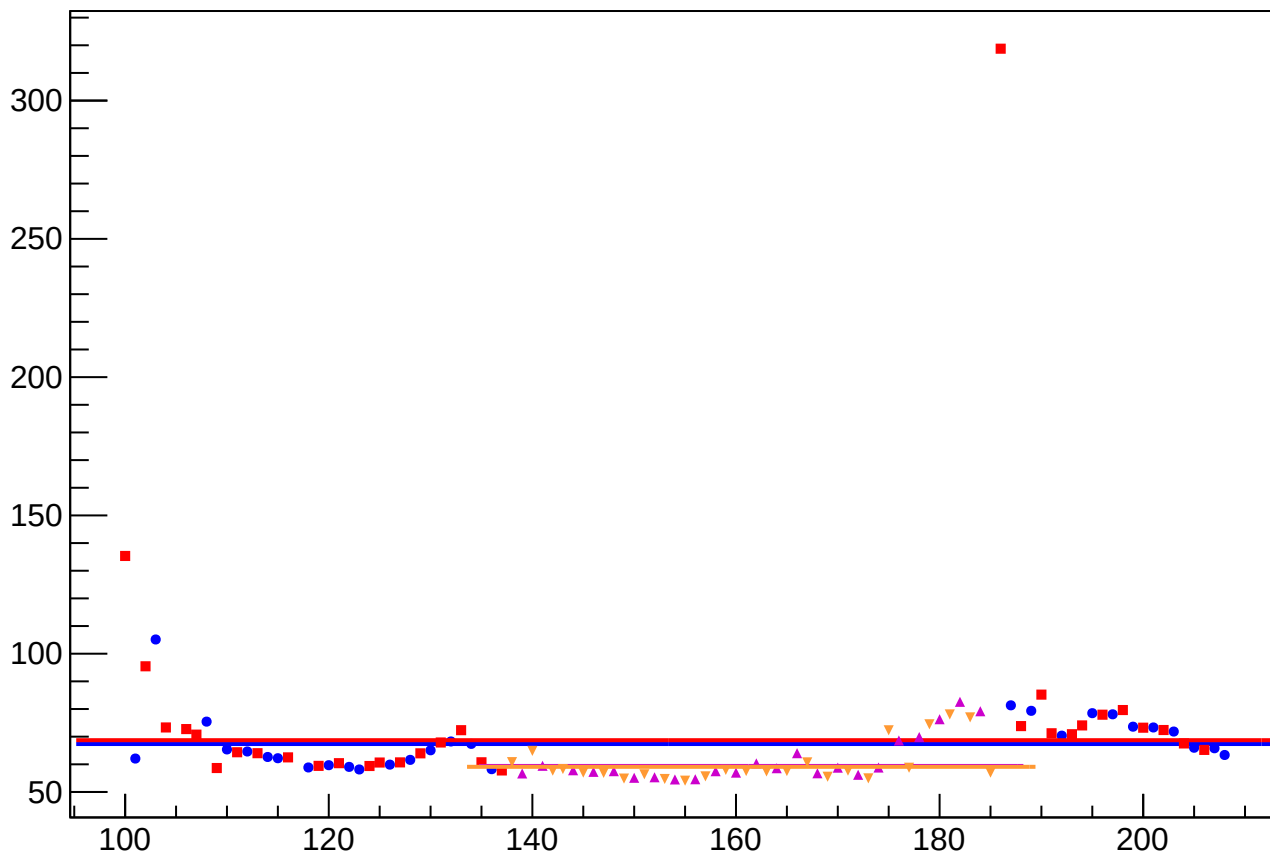
Right: -131.295 ± 12.693 χ^2/NDF : 93.7/58

In: -177.586 ± 11.181 χ^2/NDF : 56.4/50

Out: -146.628 ± 10.974 χ^2/NDF : 101.1/55

All: -161.817 ± 7.832 χ^2/NDF : 161.5/106

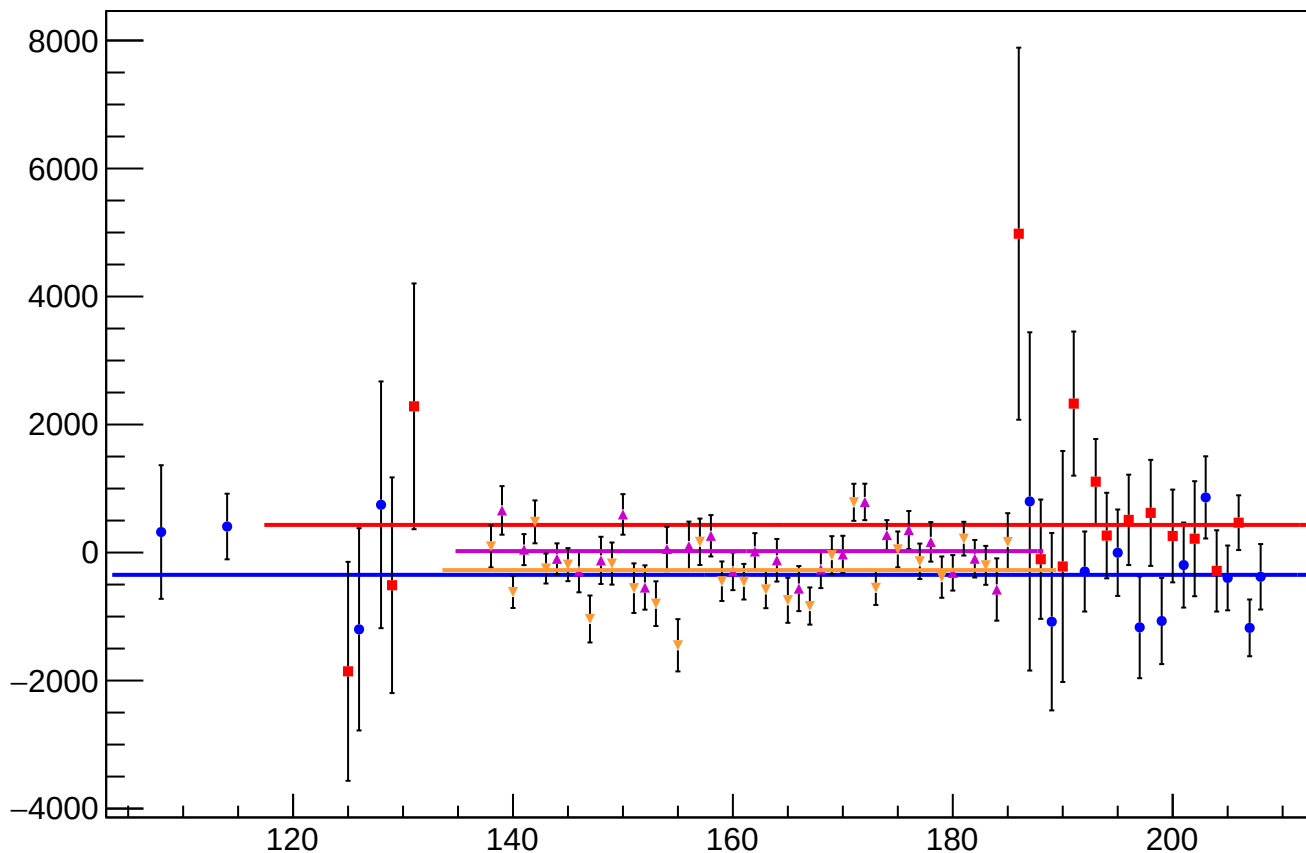
reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.337 $\pm$ 0.013 χ^2 /NDF: 407347.2/27
 Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24
 Right Out: 68.727 $\pm$ 0.013 χ^2 /NDF: 845260.4/30
 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: 68.028 $\pm$ 0.009 χ^2 /NDF: 1258601.2/58
 In: 62.502 $\pm$ 0.008 χ^2 /NDF: 1019541.2/50
 Out: 62.679 $\pm$ 0.008 χ^2 /NDF: 1574617.7/55
 All: 62.592 $\pm$ 0.006 χ^2 /NDF: 2594416.1/106

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -348.284 ± 176.493 $\chi^2/\text{NDF}: 13.3/14$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 431.885 ± 211.410 $\chi^2/\text{NDF}: 11.3/14$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

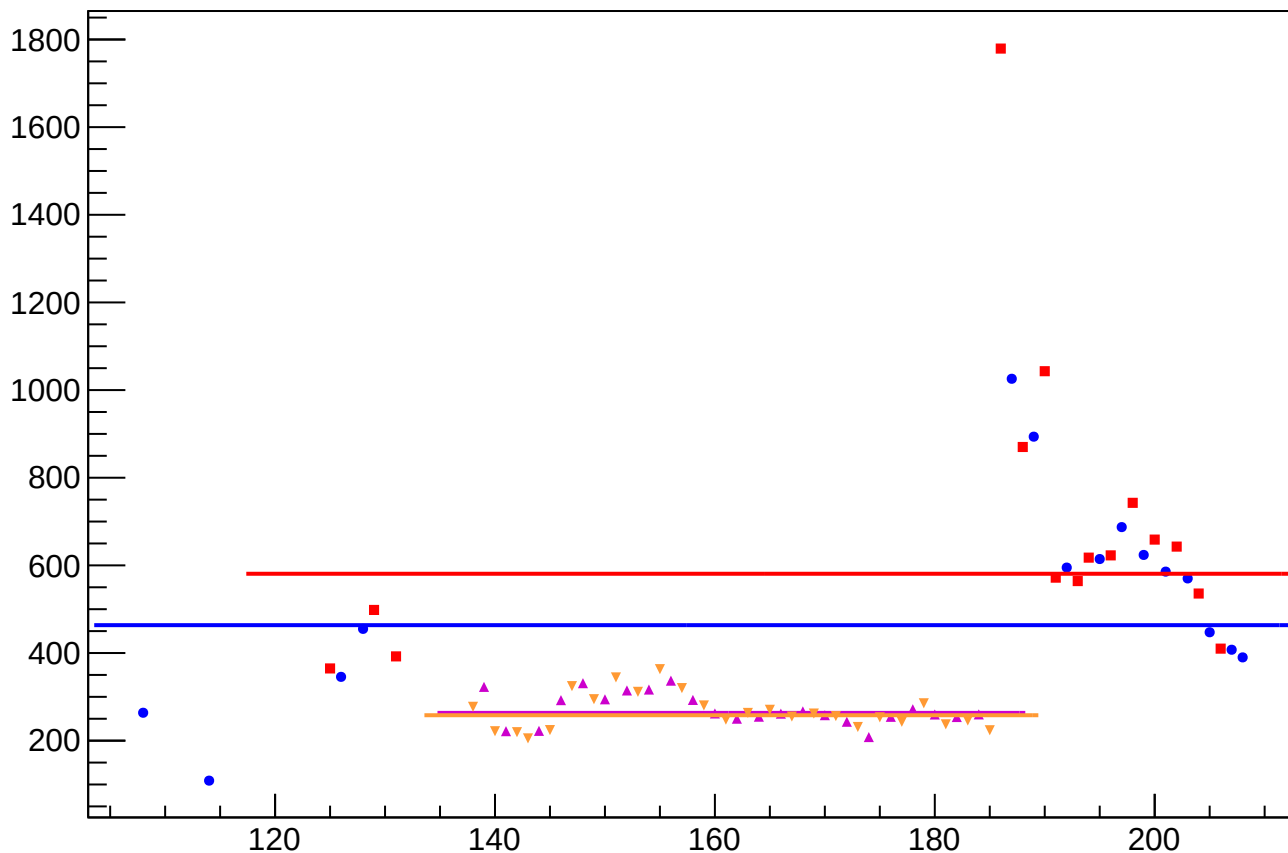
Right: -27.862 ± 135.485 $\chi^2/\text{NDF}: 32.6/29$

In: -20.050 ± 59.870 $\chi^2/\text{NDF}: 46.1/37$

Out: -220.162 ± 58.431 $\chi^2/\text{NDF}: 75.5/39$

All: -122.539 ± 41.816 $\chi^2/\text{NDF}: 127.3/77$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 463.576+/-0.125 χ^2/NDF : 1984935.2/14

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 580.859+/-0.149 χ^2/NDF : 1172552.0/14

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

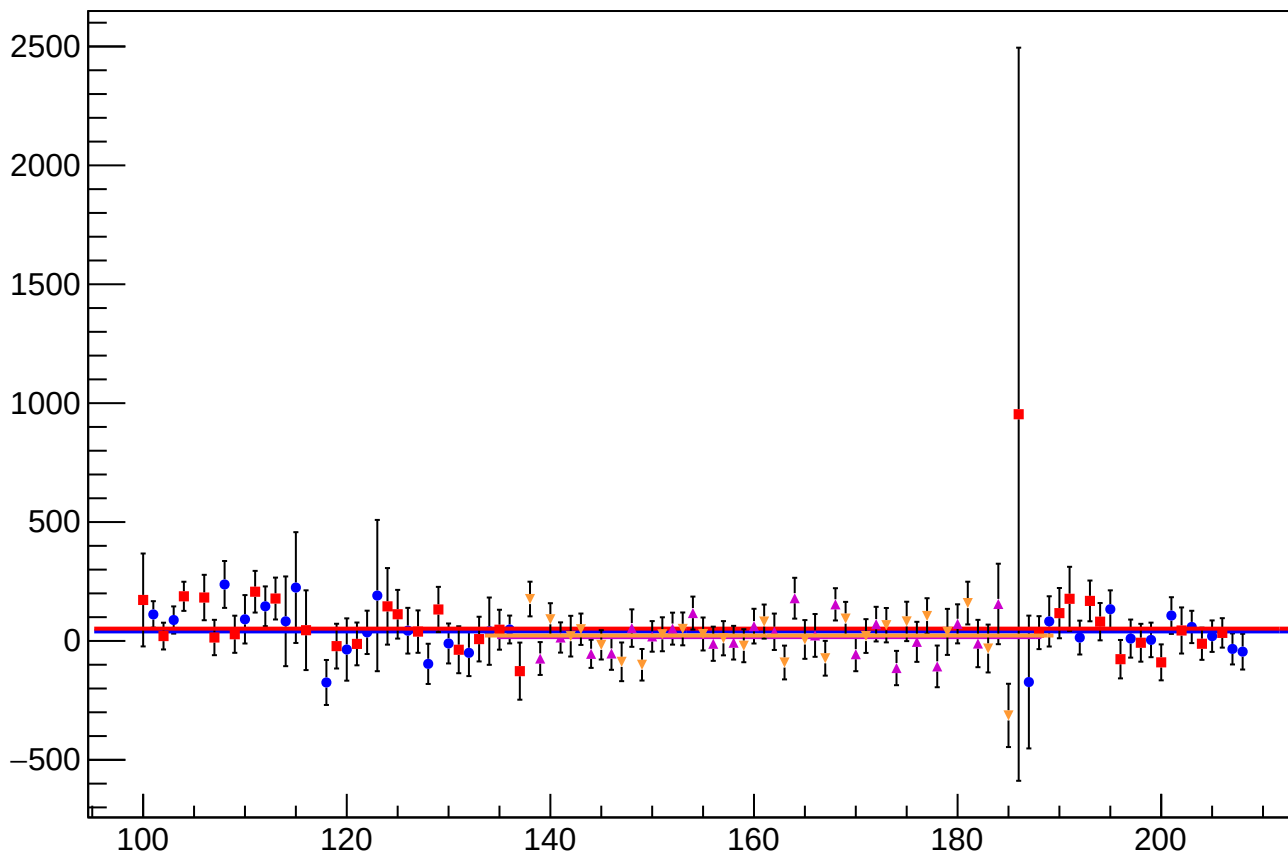
Right: 511.745+/-0.096 χ^2/NDF : 3520218.6/29

In: 286.431+/-0.042 χ^2/NDF : 4847327.8/37

Out: 282.700+/-0.041 χ^2/NDF : 6204495.9/39

All: 284.520+/-0.030 χ^2/NDF : 11055801.5/77

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.119+/-15.846 χ^2/NDF : 24.6/27

Left Out: 22.871+/-14.968 χ^2/NDF : 29.0/24

Right Out: 51.775+/-15.589 χ^2/NDF : 30.1/30

Left In: 16.198+/-15.531 χ^2/NDF : 23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

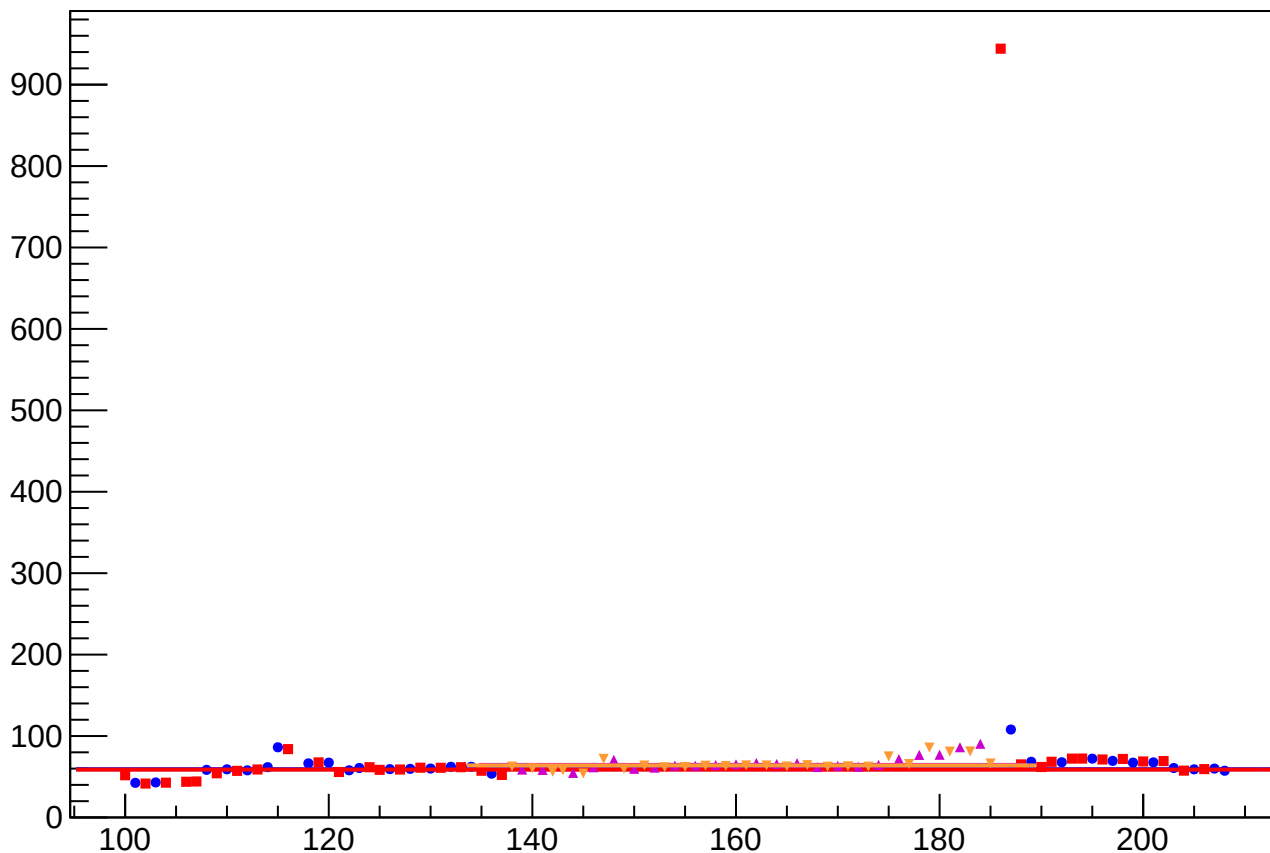
Right: 46.043+/-11.113 χ^2/NDF : 54.9/58

In: 27.919+/-11.092 χ^2/NDF : 49.1/50

Out: 36.736+/-10.797 χ^2/NDF : 60.8/55

All: 32.446+/-7.737 χ^2/NDF : 110.2/106

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.232 $\pm$ 0.011 χ^2 /NDF: 652398.5/27

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF:395410.4/24

Right Out: 58.769 $\pm$ 0.011 χ^2 /NDF: 1494017.5/30

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

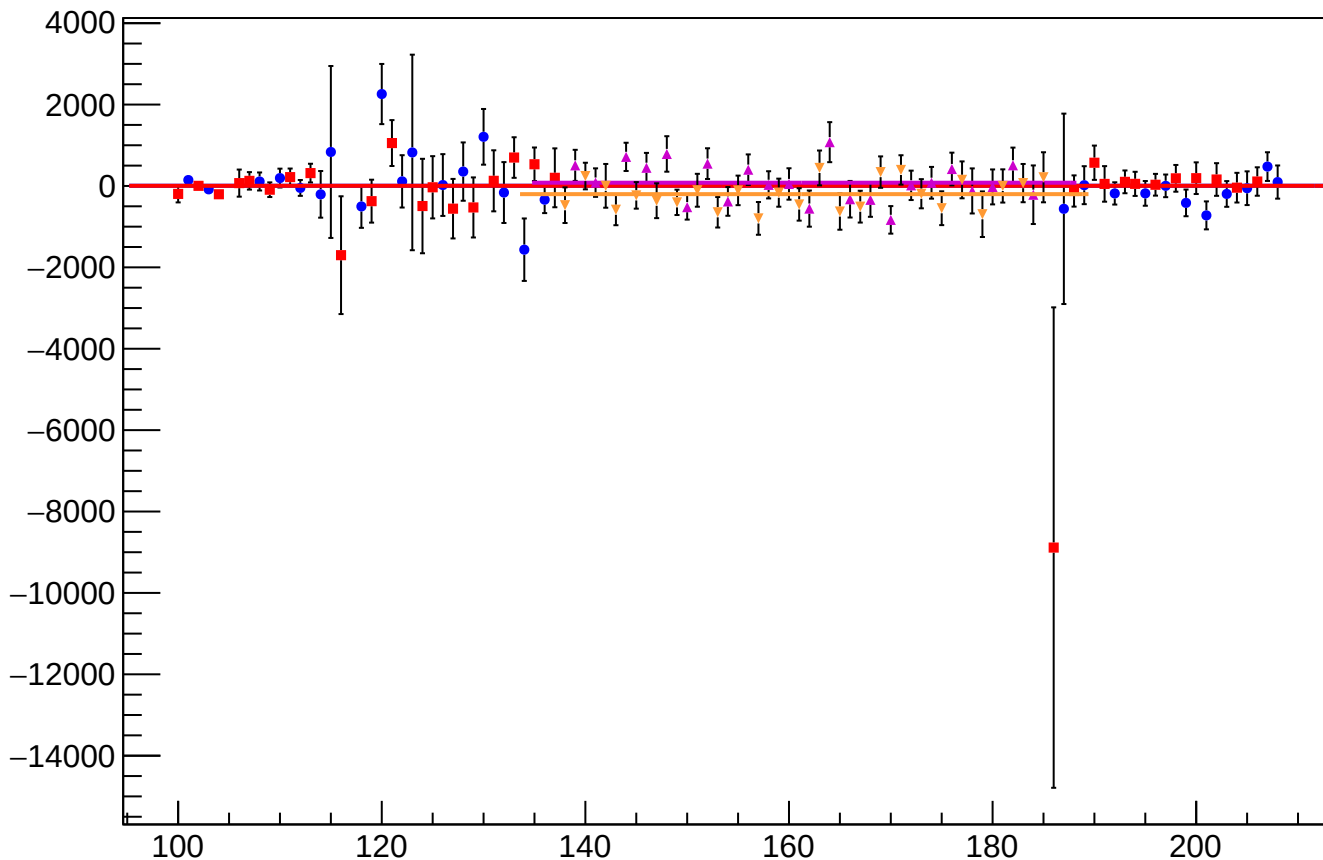
Right: 58.997 $\pm$ 0.008 χ^2 /NDF: 2147285.5/58

In: 61.924 $\pm$ 0.008 χ^2 /NDF:1136118.4/50

Out: 61.449 $\pm$ 0.008 χ^2 /NDF:2003060.5/55

All: 61.680 $\pm$ 0.005 χ^2 /NDF: 3141066.7/106

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 5.138 ± 46.339 χ^2/NDF : 33.6/27

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 3.802 ± 47.363 χ^2/NDF : 24.2/30

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

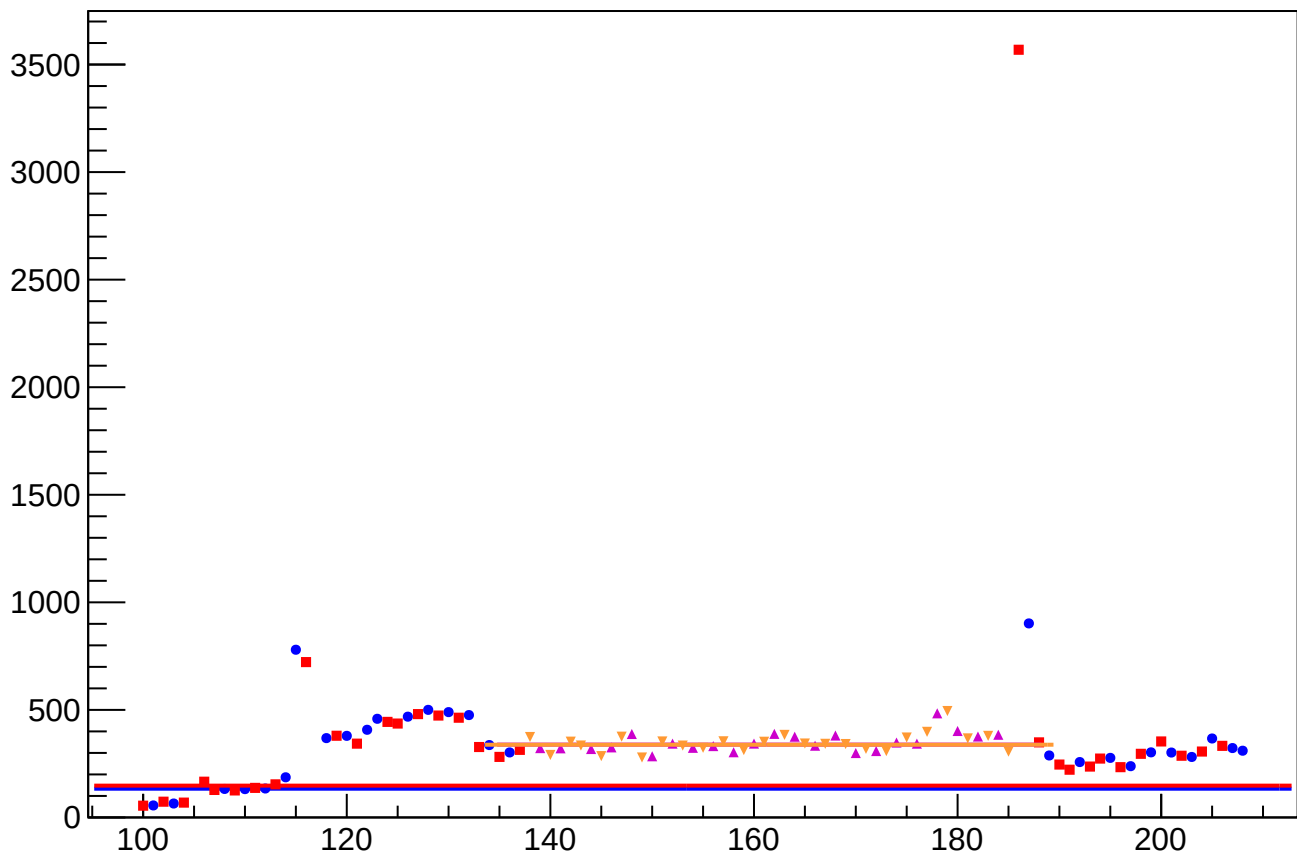
Right: 4.485 ± 33.123 χ^2/NDF : 57.7/58

In: 23.328 ± 40.317 χ^2/NDF : 67.6/50

Out: -49.820 ± 40.696 χ^2/NDF : 48.7/55

All: -12.903 ± 28.641 χ^2/NDF : 118.0/106

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 133.658+/-0.033

χ^2/NDF : 11420919.3/27

Left Out: 338.130+/-0.056

χ^2/NDF : 498601.7/24

Right Out: 147.914+/-0.033

χ^2/NDF : 10192130.1/30

Left In: 338.564+/-0.058

χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040

χ^2/NDF : 935873.7/47

Right: 140.630+/-0.023

χ^2/NDF : 21705621.3/58

In: 183.456+/-0.029

χ^2/NDF : 21362267.1/50

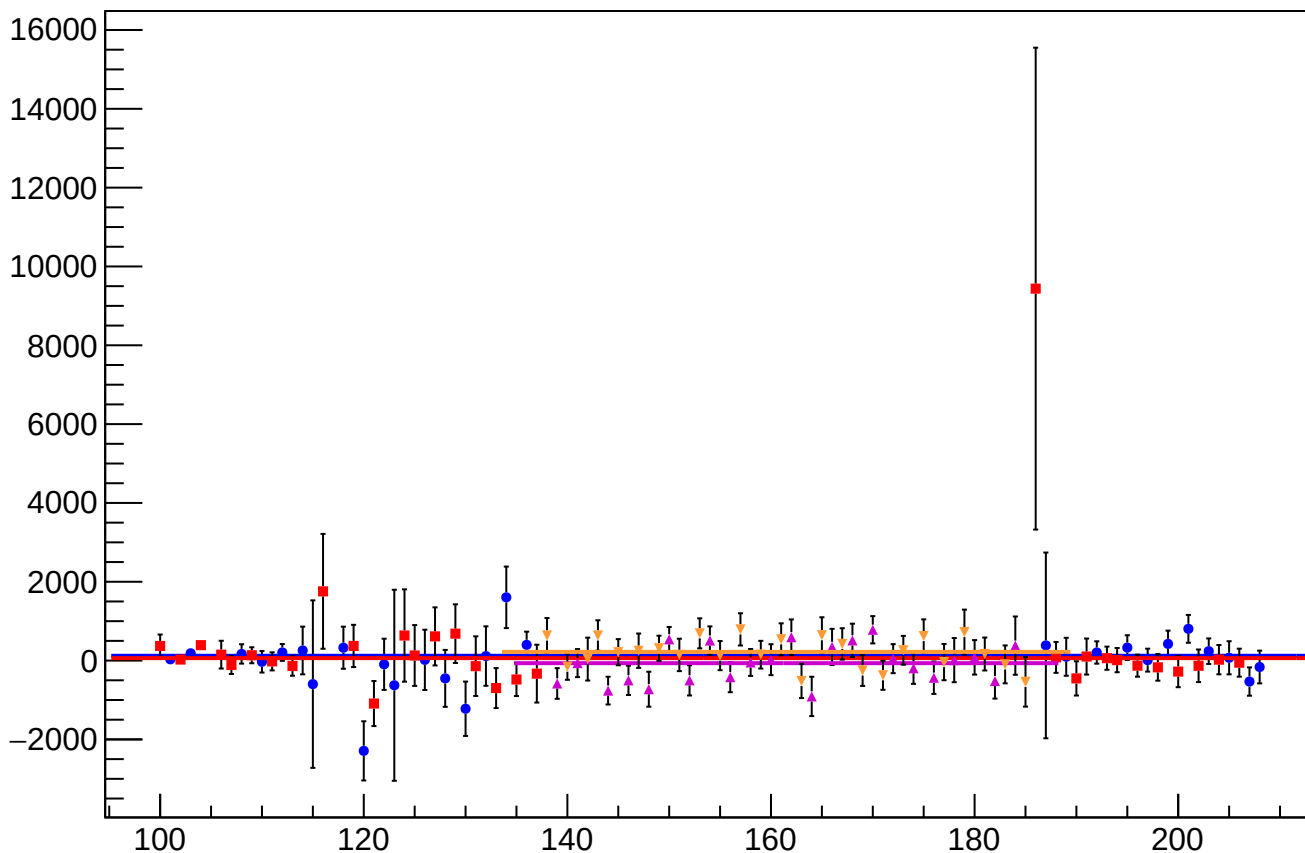
Out: 197.697+/-0.029

χ^2/NDF : 19133388.8/55

All: 190.510+/-0.020

χ^2/NDF : 40619252.5/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 121.767 $\pm$ 54.636 χ^2 /NDF: 30.3/27

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 62.373 $\pm$ 52.891 χ^2 /NDF: 27.5/30

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

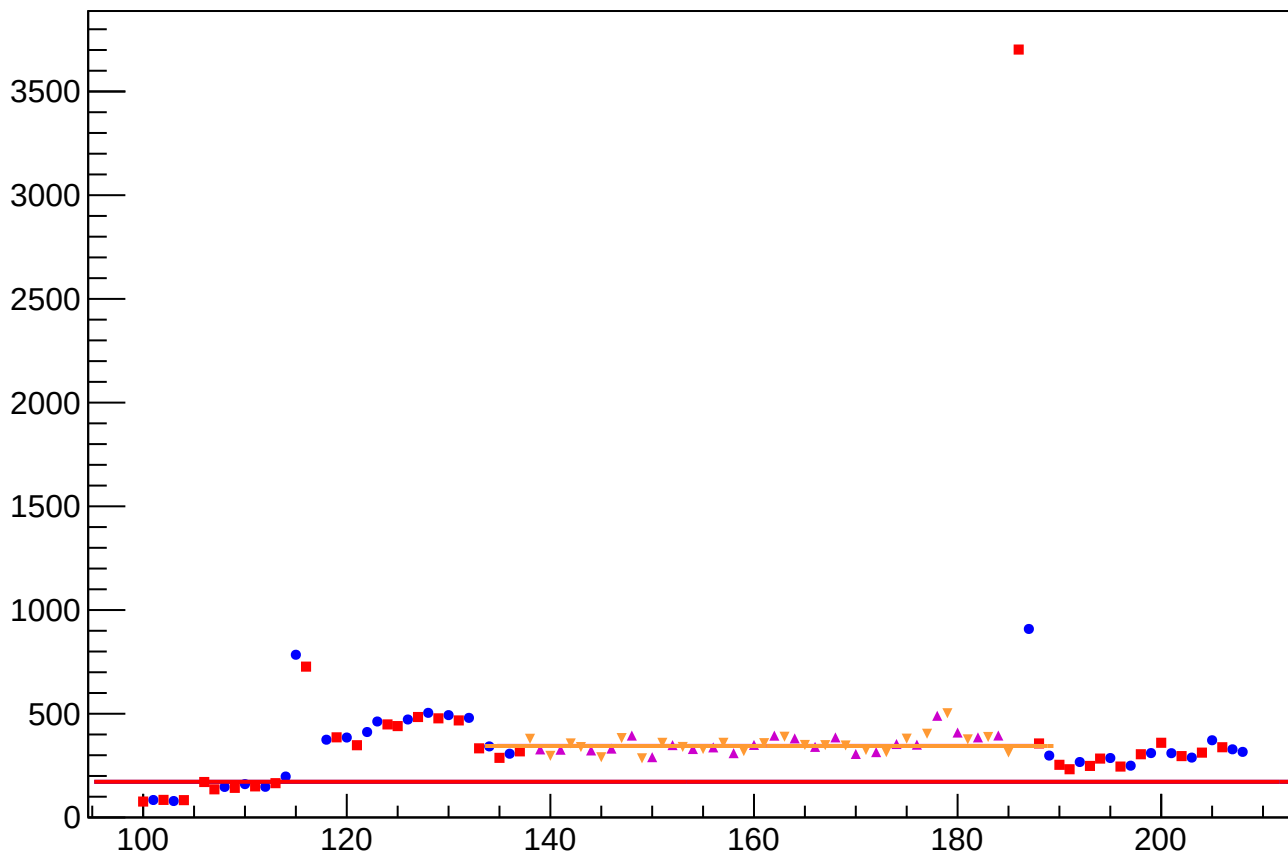
Right: 91.106 $\pm$ 38.002 χ^2 /NDF: 58.4/58

In: 65.452 $\pm$ 45.689 χ^2 /NDF:67.8/50

Out: 109.800 $\pm$ 44.289 χ^2 /NDF:49.9/55

All: 88.316 $\pm$ 31.800 χ^2 /NDF: 118.2/106

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 171.682 $\pm$ 0.039 χ^2 /NDF: 8614915.3/27

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 172.101 $\pm$ 0.037 χ^2 /NDF: 8569613.0/30

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF:427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

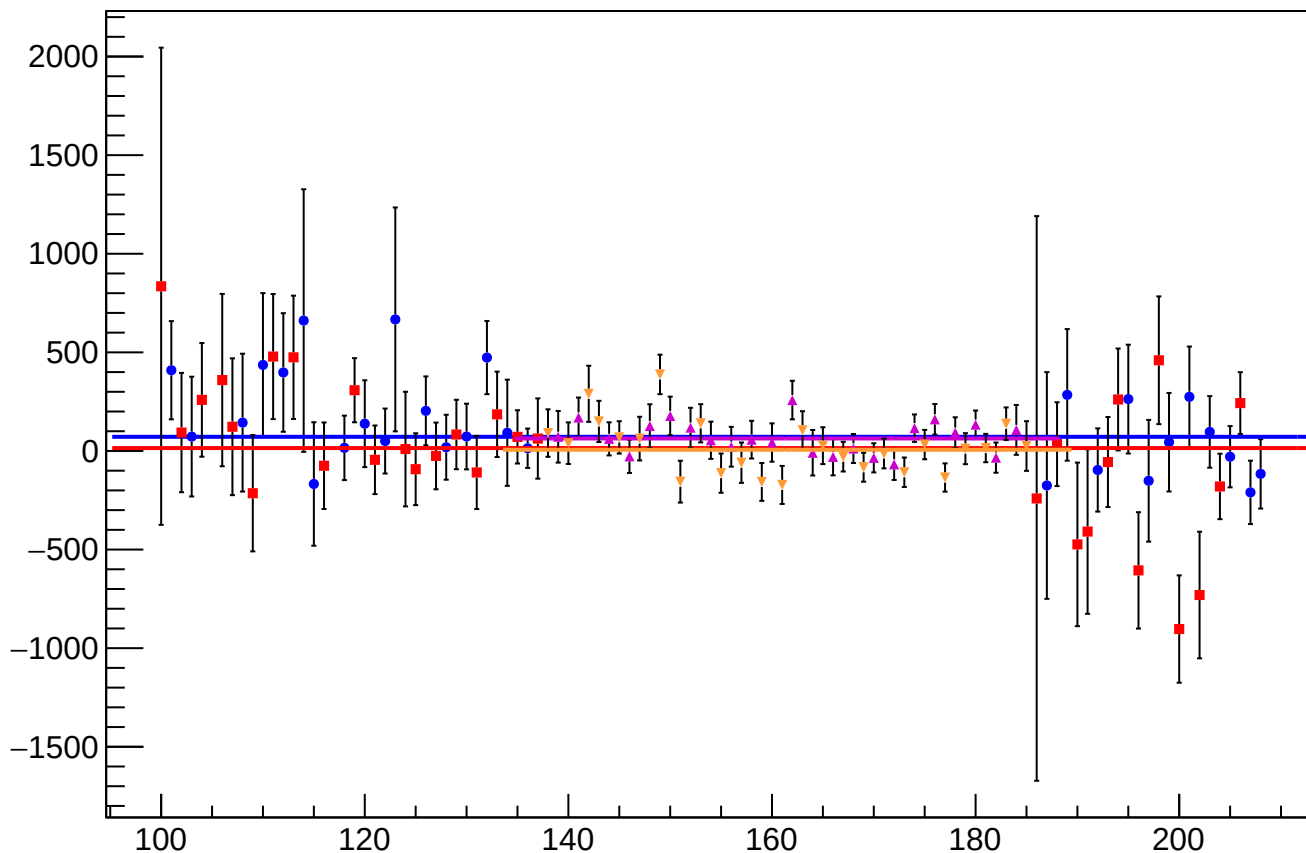
Right: 171.899 $\pm$ 0.027 χ^2 /NDF: 17184589.0/58

In: 223.811 $\pm$ 0.032 χ^2 /NDF:15096909.9/50

Out: 223.620 $\pm$ 0.031 χ^2 /NDF:15408091.1/55

All: 223.713 $\pm$ 0.022 χ^2 /NDF: 30505019.1/10

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 71.771 $\pm$ 39.362 χ^2 /NDF: 20.0/27

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 14.676 $\pm$ 41.209 χ^2 /NDF: 42.3/30

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

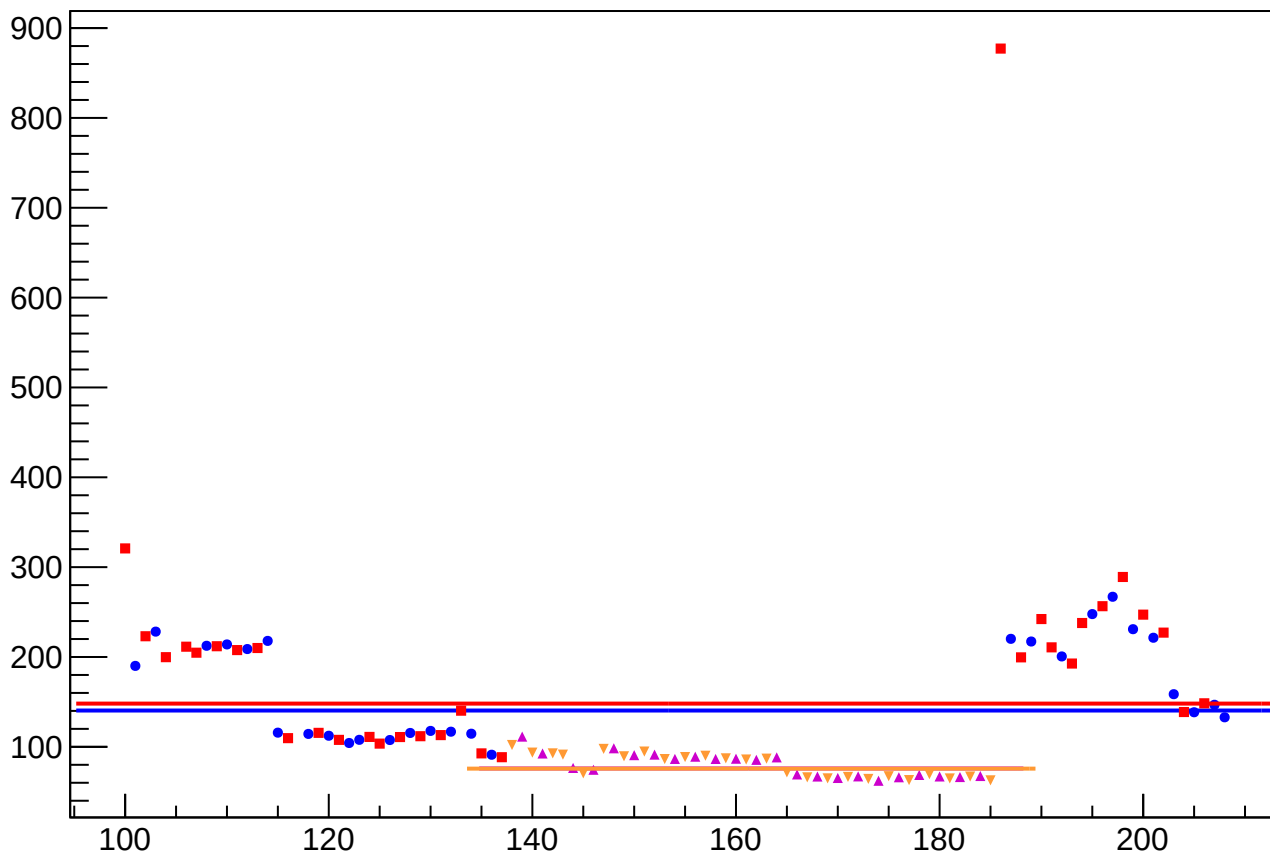
Right: 44.532 $\pm$ 28.464 χ^2 /NDF: 63.3/58

In: 64.808 $\pm$ 16.703 χ^2 /NDF:39.9/50

Out: 7.395 $\pm$ 16.426 χ^2 /NDF:88.3/55

All: 35.620 $\pm$ 11.712 χ^2 /NDF: 134.2/106

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.417 $\pm$ 0.028 χ^2 /NDF: 2871197.6/27

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 148.123 $\pm$ 0.029 χ^2 /NDF: 3874063.3/30

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

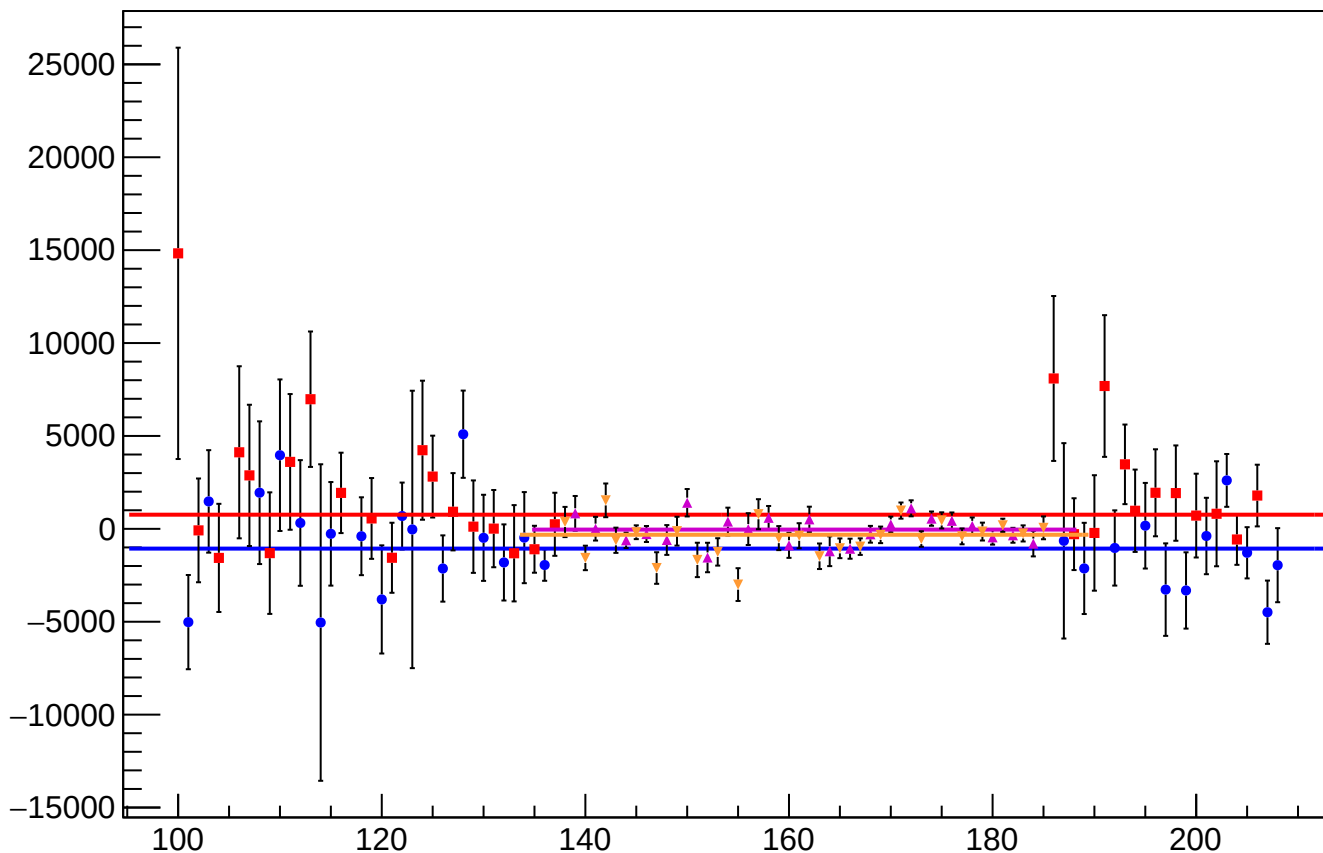
Right: 144.093 $\pm$ 0.020 χ^2 /NDF: 6781828.5/58

In: 87.525 $\pm$ 0.012 χ^2 /NDF:8106707.6/50

Out: 87.242 $\pm$ 0.012 χ^2 /NDF:10001518.5/55

All: 87.381 $\pm$ 0.008 χ^2 /NDF: 18108518.4/106

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1063.700 ± 386.893 $\chi^2/\text{NDF}: 29.9/27$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 761.697 ± 414.760 $\chi^2/\text{NDF}: 23.6/30$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

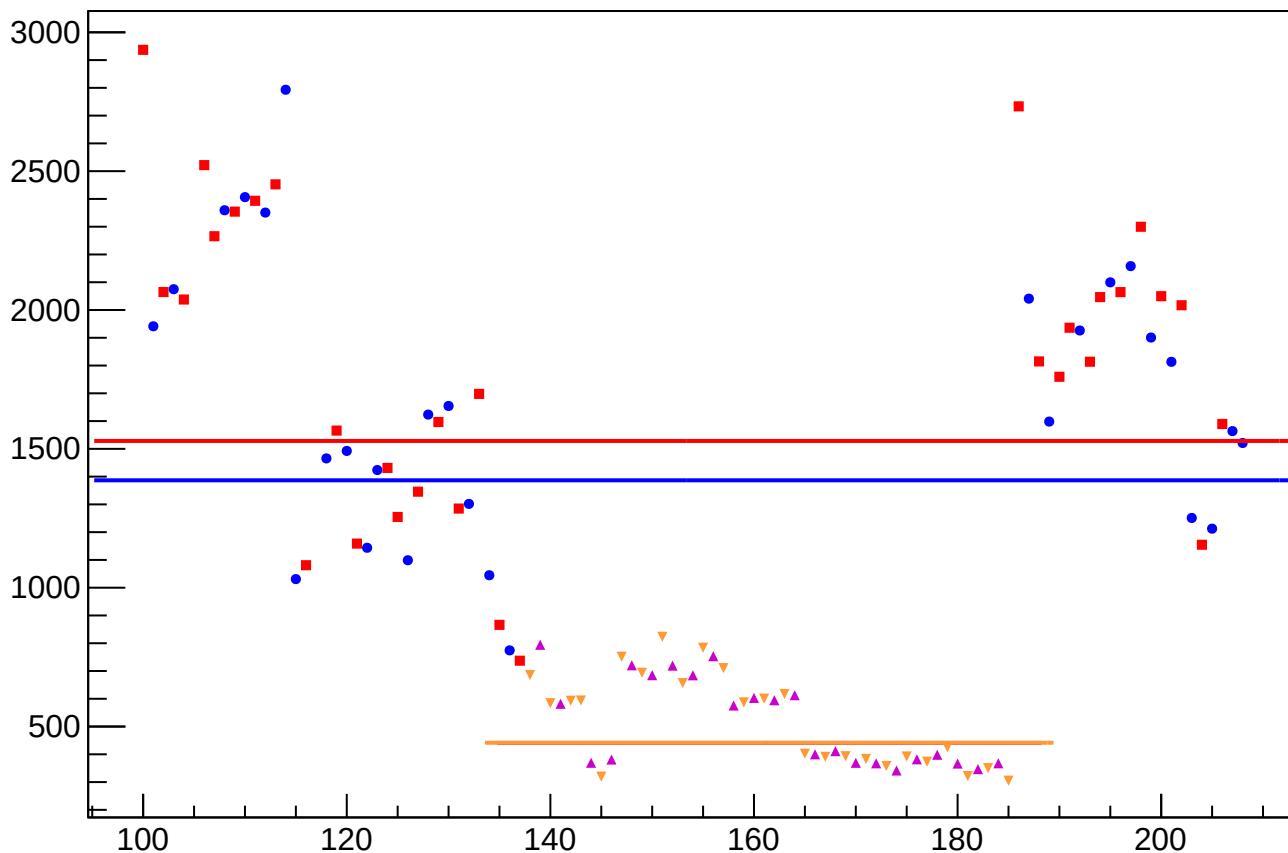
Right: -214.378 ± 282.914 $\chi^2/\text{NDF}: 63.9/58$

In: -117.325 ± 106.031 $\chi^2/\text{NDF}: 71.1/50$

Out: -249.485 ± 104.527 $\chi^2/\text{NDF}: 79.9/55$

All: -184.349 ± 74.438 $\chi^2/\text{NDF}: 151.9/106$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1386.741+/-0.274 χ^2/NDF : 2813008.6/27

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1528.473+/-0.293 χ^2/NDF : 2910757.9/30

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

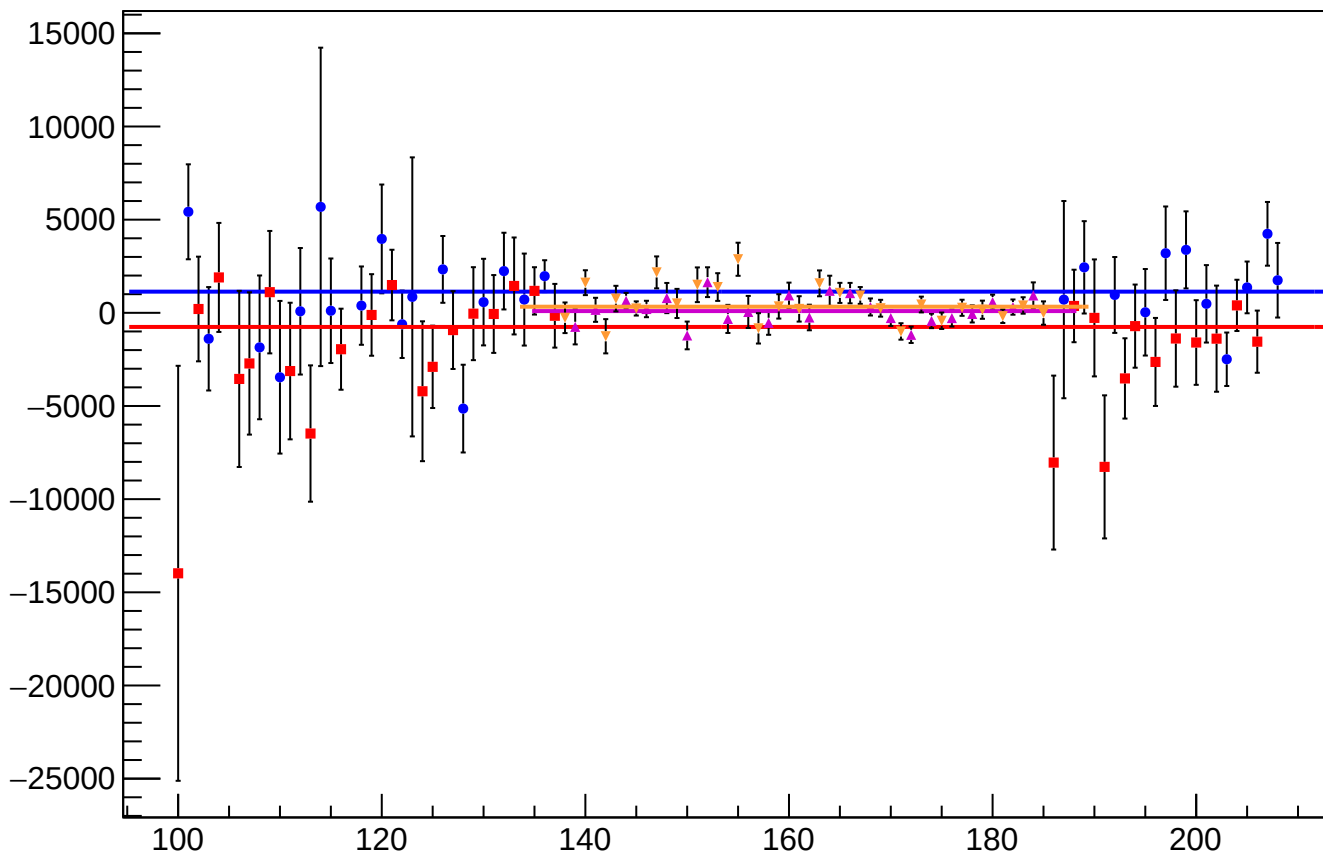
Right: 1452.686+/-0.200 χ^2/NDF : 5848647.5/58

In: 512.041+/-0.075 χ^2/NDF : 16462925.0/50

Out: 510.710+/-0.074 χ^2/NDF : 18939530.7/55

All: 511.366+/-0.053 χ^2/NDF : 35402615.4/100

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1136.668 $\pm$ 389.354 χ^2 /NDF: 29.2/27

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -757.529 $\pm$ 417.405 χ^2 /NDF: 23.2/30

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

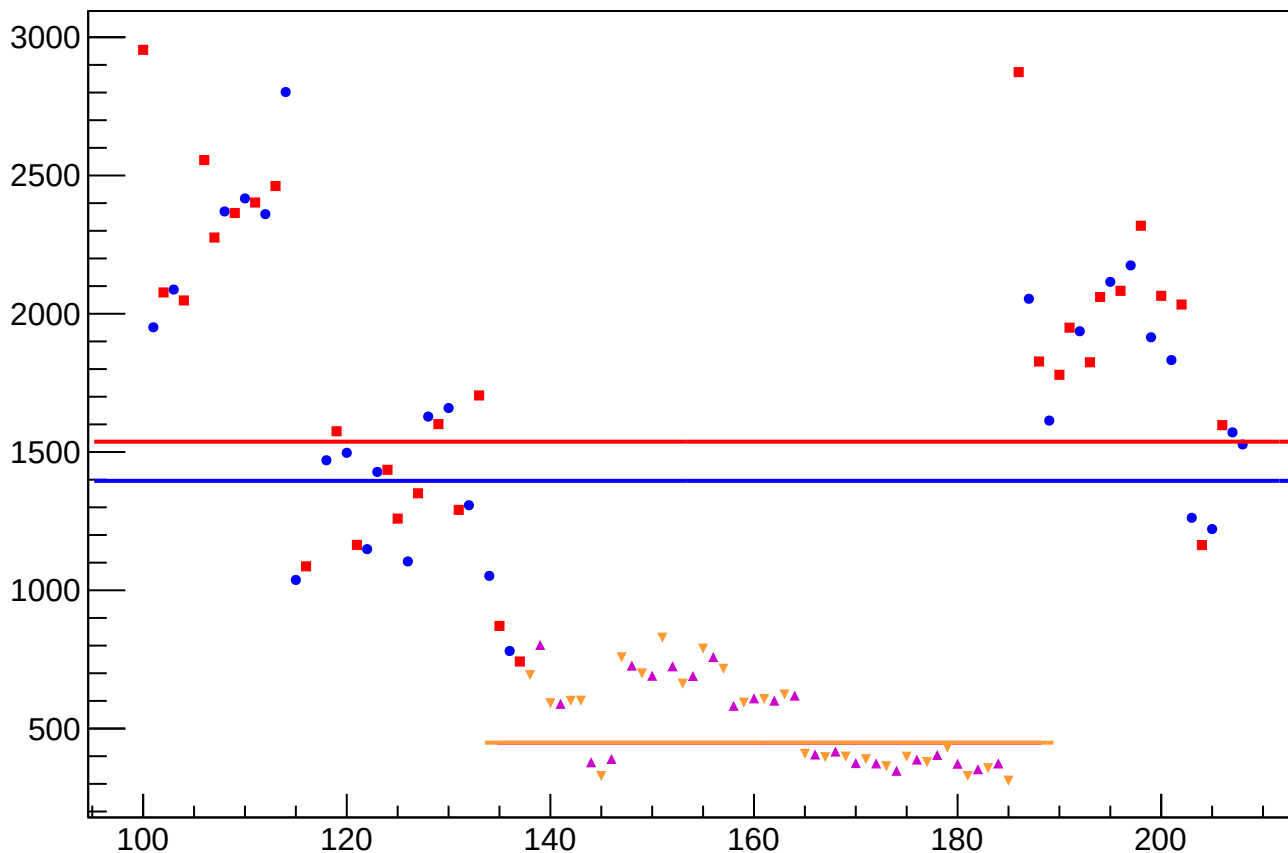
Right: 255.351 $\pm$ 284.716 χ^2 /NDF: 63.4/58

In: 172.993 $\pm$ 107.600 χ^2 /NDF: 69.2/50

Out: 258.463 $\pm$ 106.068 χ^2 /NDF: 77.2/55

All: 216.341 $\pm$ 75.537 χ^2 /NDF: 146.7/106

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1395.850+/-0.275 χ^2/NDF : 2803633.0/27

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1537.452+/-0.295 χ^2/NDF : 2930493.4/30

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

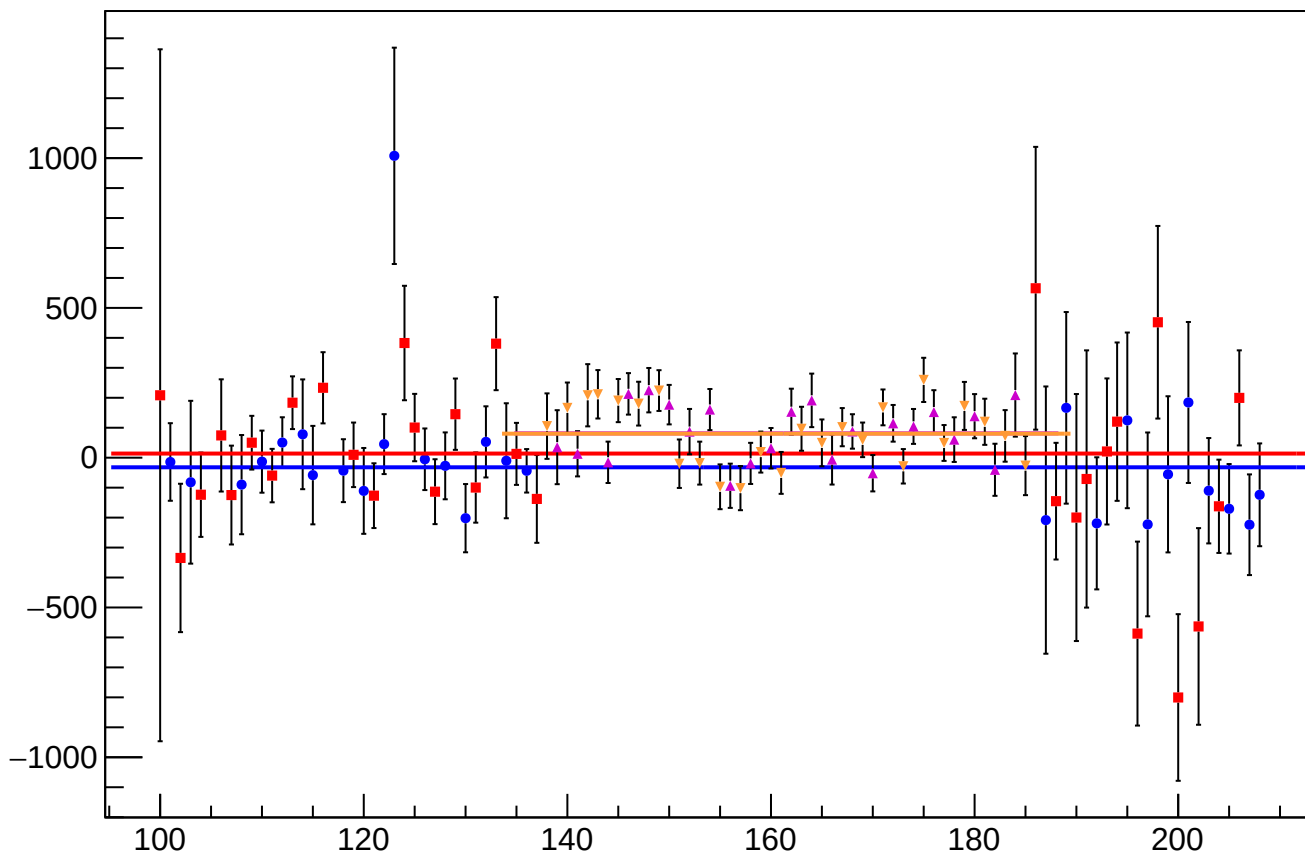
Right: 1461.734+/-0.201 χ^2/NDF : 5857205.9/58

In: 520.672+/-0.076 χ^2/NDF : 16281483.2/50

Out: 519.301+/-0.075 χ^2/NDF : 18742218.9/55

All: 519.977+/-0.053 χ^2/NDF : 35023866.9/10

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -32.069 ± 26.449 $\chi^2/\text{NDF}: 18.8/27$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 13.788 ± 26.102 $\chi^2/\text{NDF}: 50.5/30$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

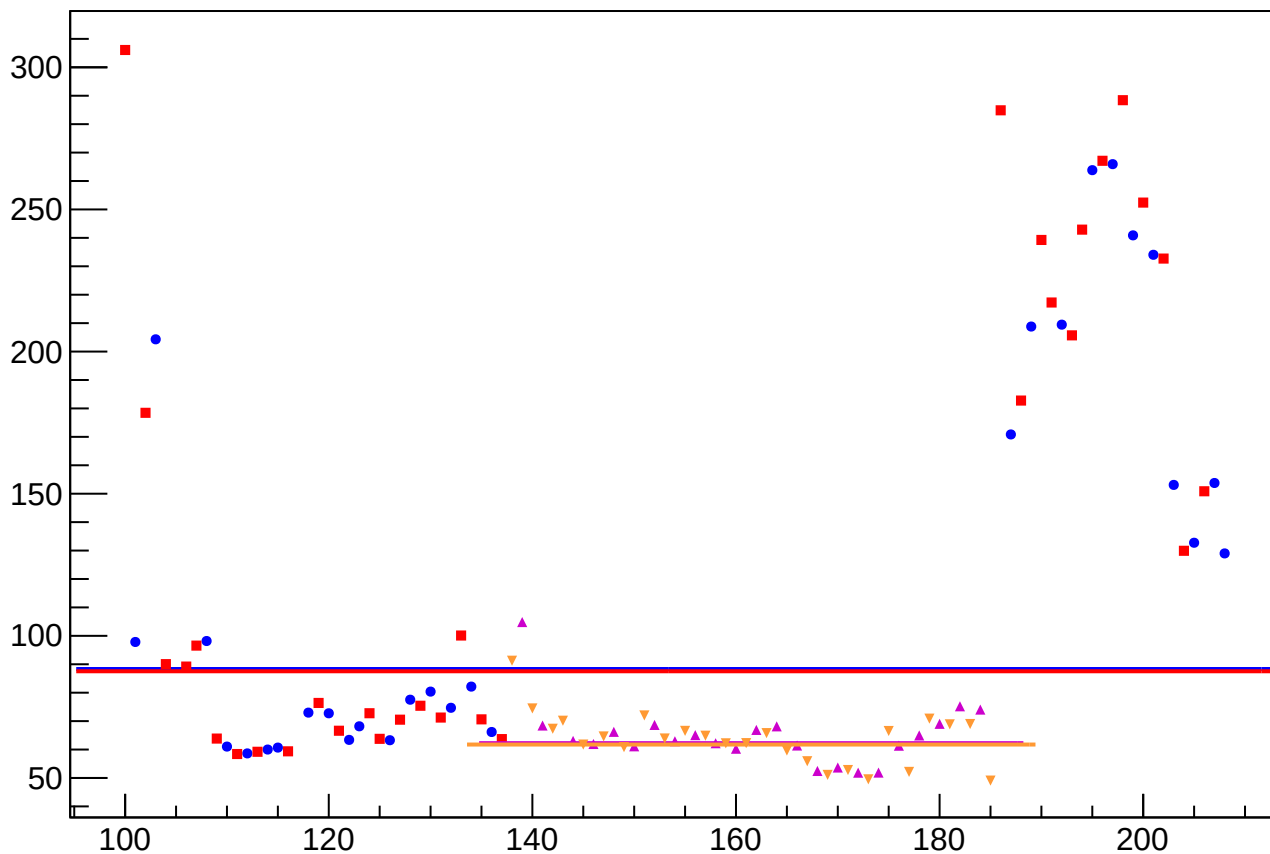
Right: -8.837 ± 18.578 $\chi^2/\text{NDF}: 70.8/58$

In: 53.308 ± 13.117 $\chi^2/\text{NDF}: 67.9/50$

Out: 64.364 ± 12.737 $\chi^2/\text{NDF}: 103.9/55$

All: 58.999 ± 9.138 $\chi^2/\text{NDF}: 172.2/106$

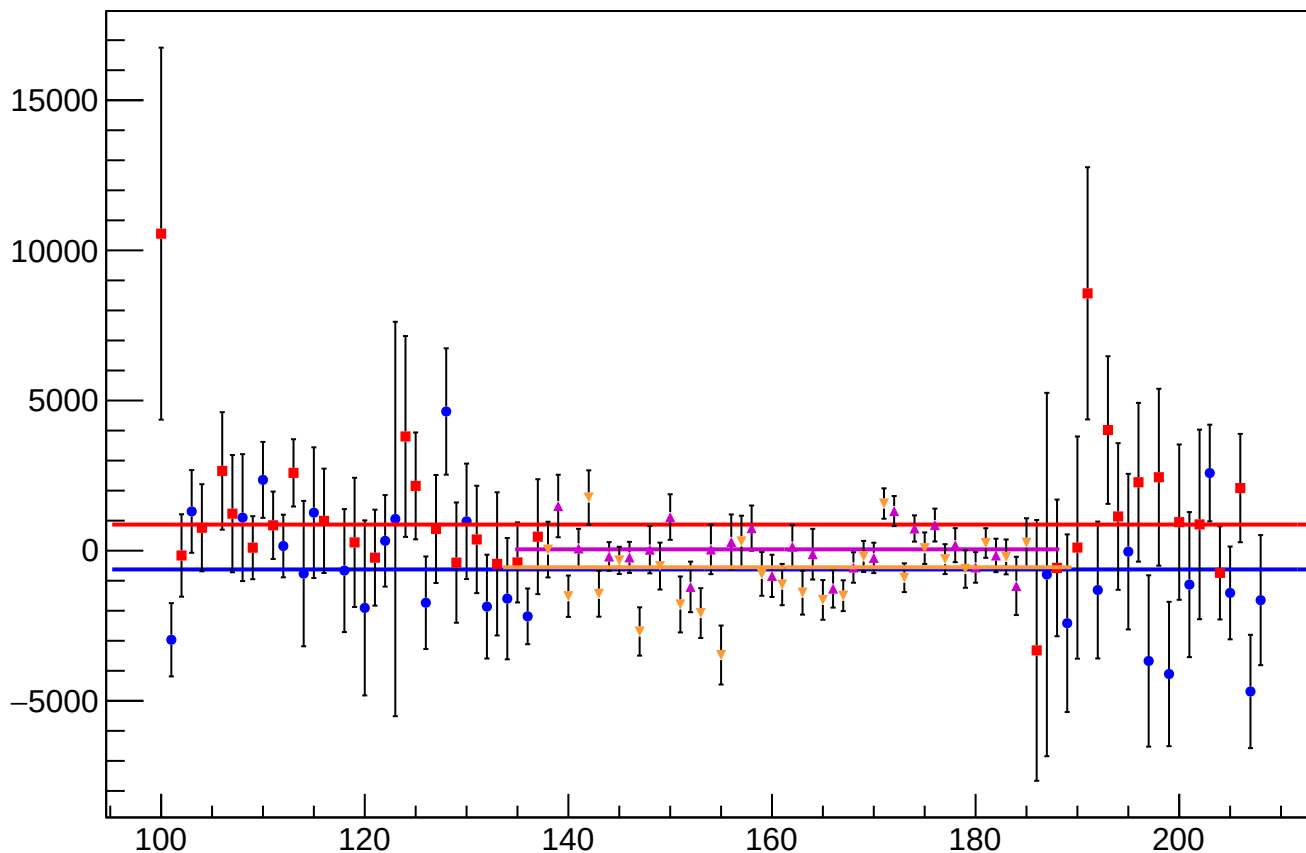
reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 88.329 $\pm$ 0.019 χ^2 /NDF: 5911418.4/27
 Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24
 Right Out: 87.536 $\pm$ 0.018 χ^2 /NDF: 6914230.5/30
 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: 87.927 $\pm$ 0.013 χ^2 /NDF: 12826558.4/58
 In: 68.664 $\pm$ 0.009 χ^2 /NDF: 7968671.4/50
 Out: 67.899 $\pm$ 0.009 χ^2 /NDF: 9045632.7/55
 All: 68.270 $\pm$ 0.006 χ^2 /NDF: 17017810.2/106

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -624.763 ± 332.093 $\chi^2/\text{NDF}: 37.8/27$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 869.822 ± 329.278 $\chi^2/\text{NDF}: 18.9/30$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

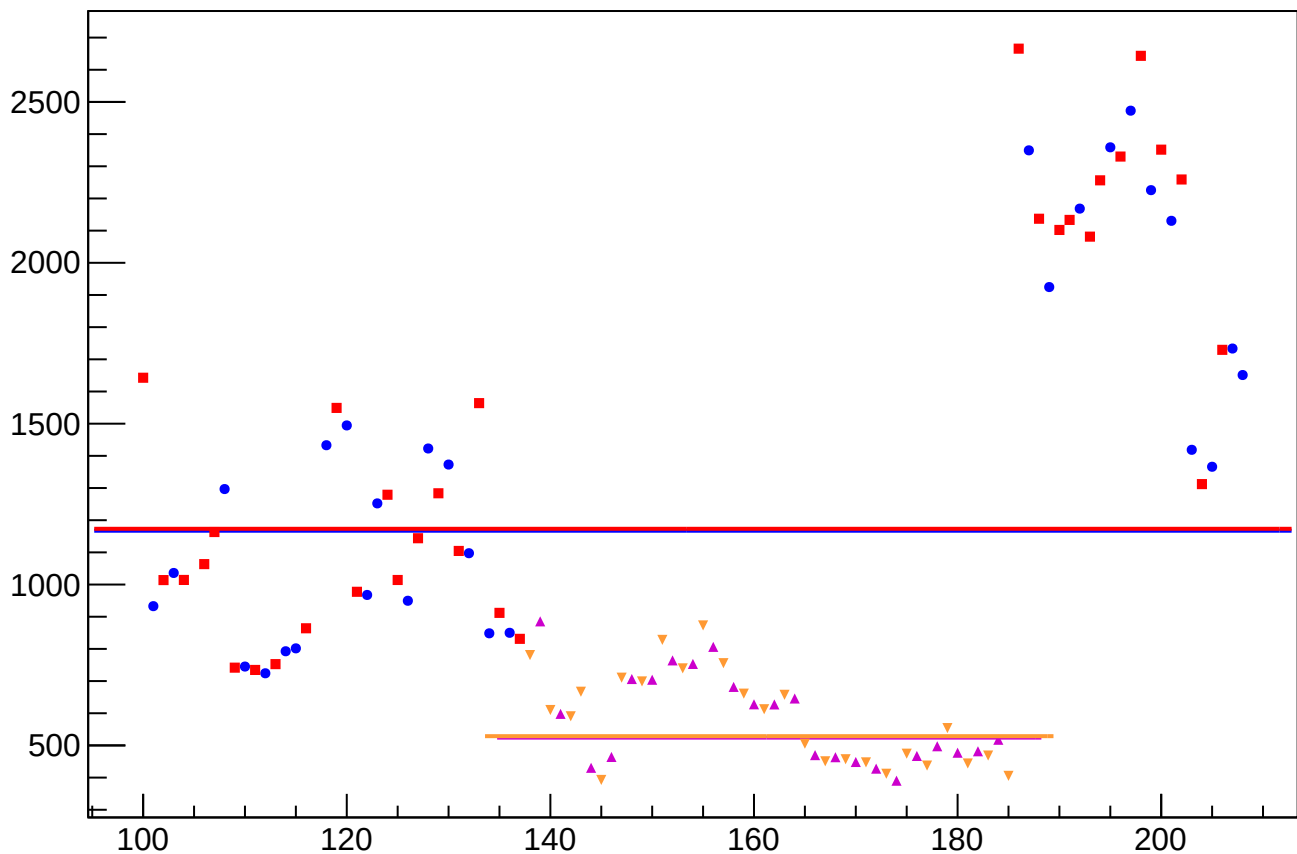
Right: 128.891 ± 233.824 $\chi^2/\text{NDF}: 66.8/58$

In: -43.289 ± 120.323 $\chi^2/\text{NDF}: 70.9/50$

Out: -368.374 ± 118.477 $\chi^2/\text{NDF}: 100.4/55$

All: -208.345 ± 84.421 $\chi^2/\text{NDF}: 175.0/106$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1167.330 $\pm$ 0.235 χ^2 /NDF: 3763825.3/27

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1173.294 $\pm$ 0.233 χ^2 /NDF: 4602221.2/30

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

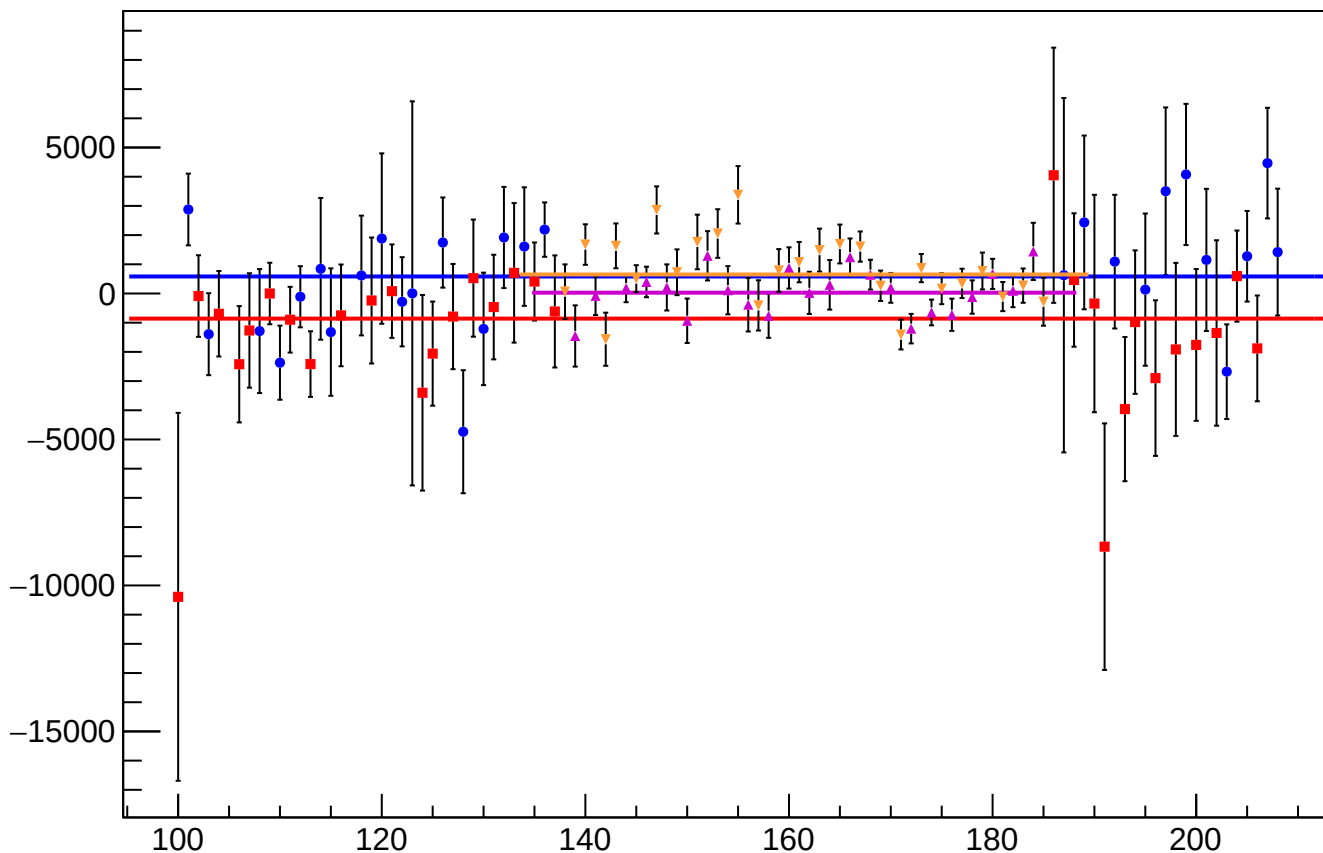
Right: 1170.337 $\pm$ 0.165 χ^2 /NDF: 8366371.8/58

In: 608.685 $\pm$ 0.085 χ^2 /NDF:11994830.5/50

Out: 612.181 $\pm$ 0.084 χ^2 /NDF:13257300.5/55

All: 610.460 $\pm$ 0.060 χ^2 /NDF: 25252988.1/10

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 582.979+/-333.672 χ^2/NDF : 37.3/27

Left Out: 651.560+/-127.961 χ^2/NDF :61.1/24

Right Out: -860.229+/-330.970 χ^2/NDF : 17.8/30

Left In: 27.483+/-130.127 χ^2/NDF :28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

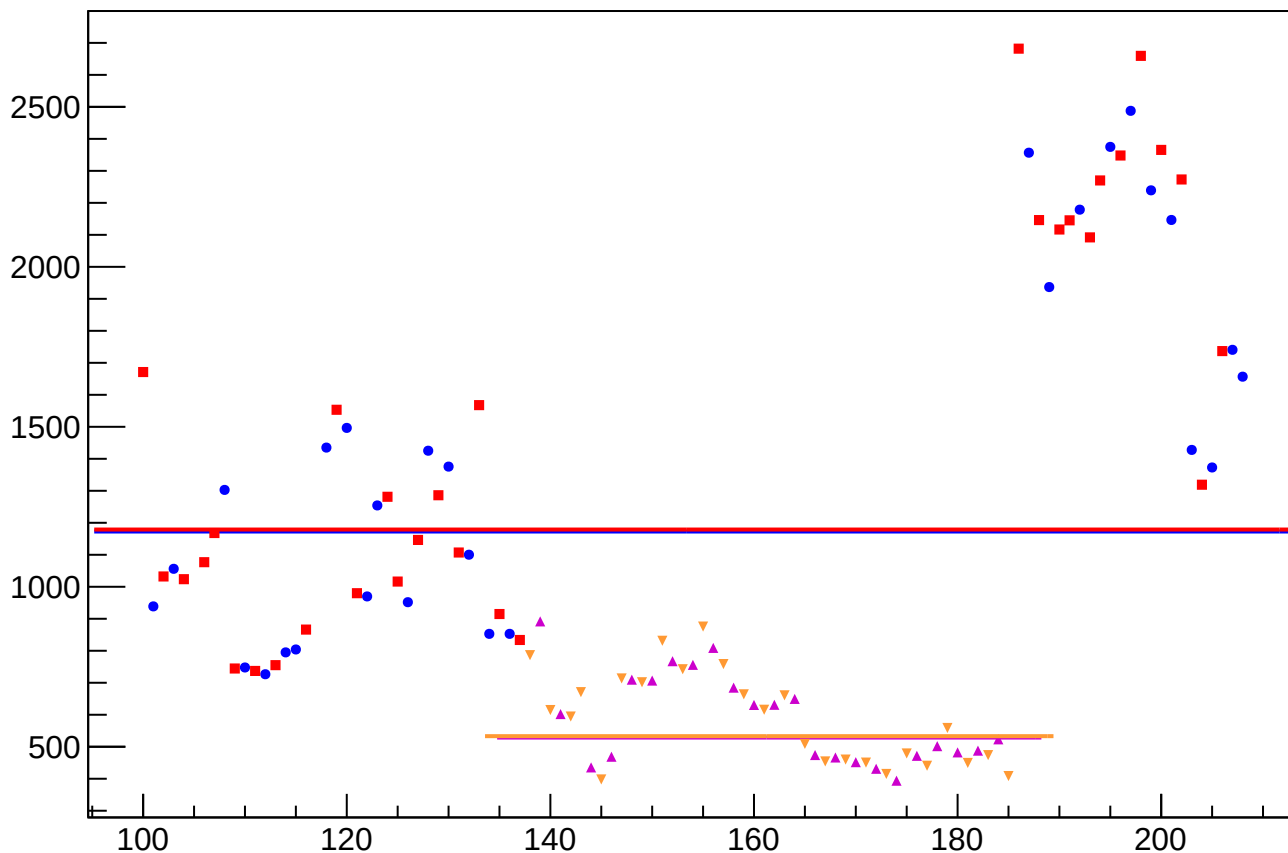
Right: -144.492+/-234.981 χ^2/NDF : 64.6/58

In: 100.814+/-121.234 χ^2/NDF :68.1/50

Out: 454.967+/-119.351 χ^2/NDF :97.1/55

All: 280.661+/-85.052 χ^2/NDF : 169.6/106

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1172.719 $\pm$ 0.236 χ^2 /NDF: 3770933.3/27

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1178.926 $\pm$ 0.234 χ^2 /NDF: 4612009.2/30

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

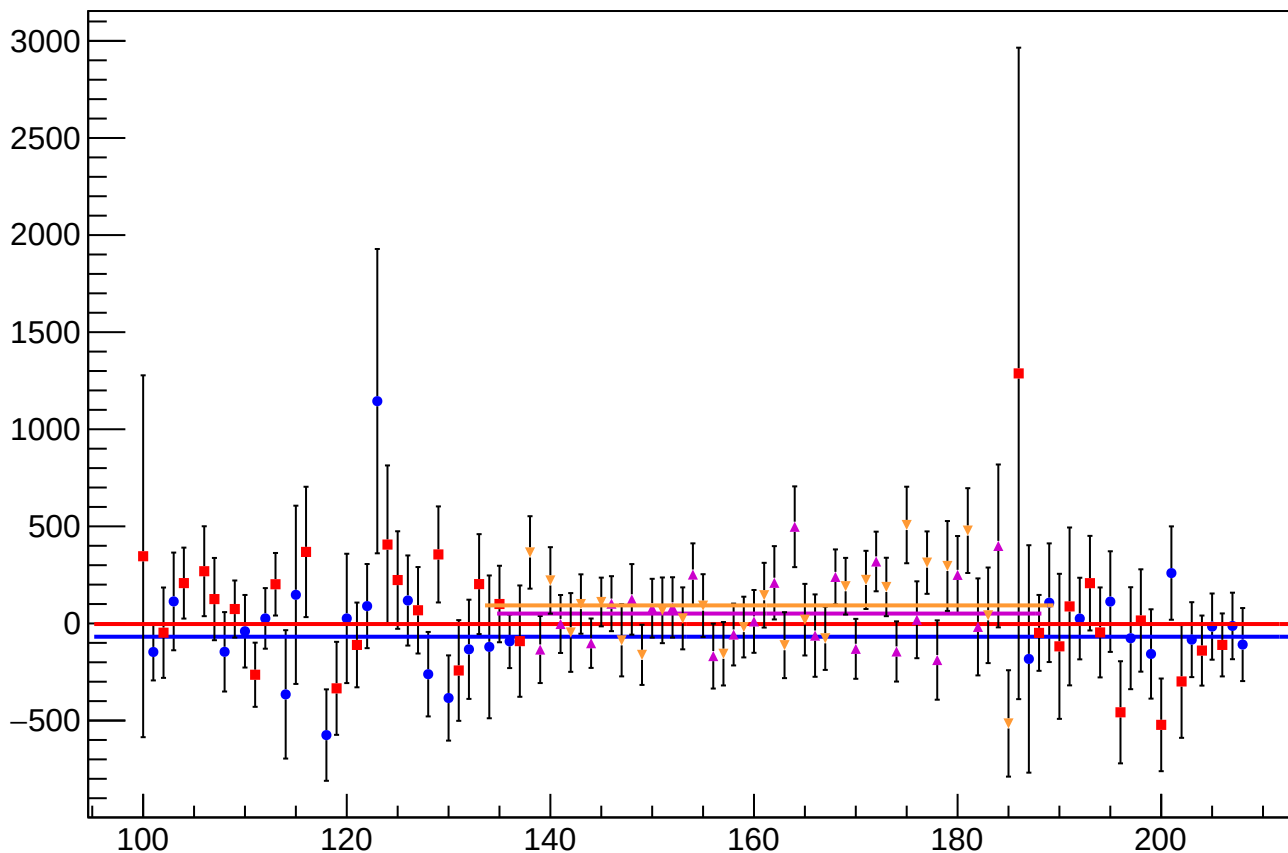
Right: 1175.847 $\pm$ 0.166 χ^2 /NDF: 8383291.3/58

In: 613.712 $\pm$ 0.086 χ^2 /NDF: 11926531.7/50

Out: 617.049 $\pm$ 0.084 χ^2 /NDF: 13189294.0/55

All: 615.406 $\pm$ 0.060 χ^2 /NDF: 25116595.1/100

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -68.374 ± 41.480 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -3.005 ± 41.242 $\chi^2/\text{NDF}: 28.3/30$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

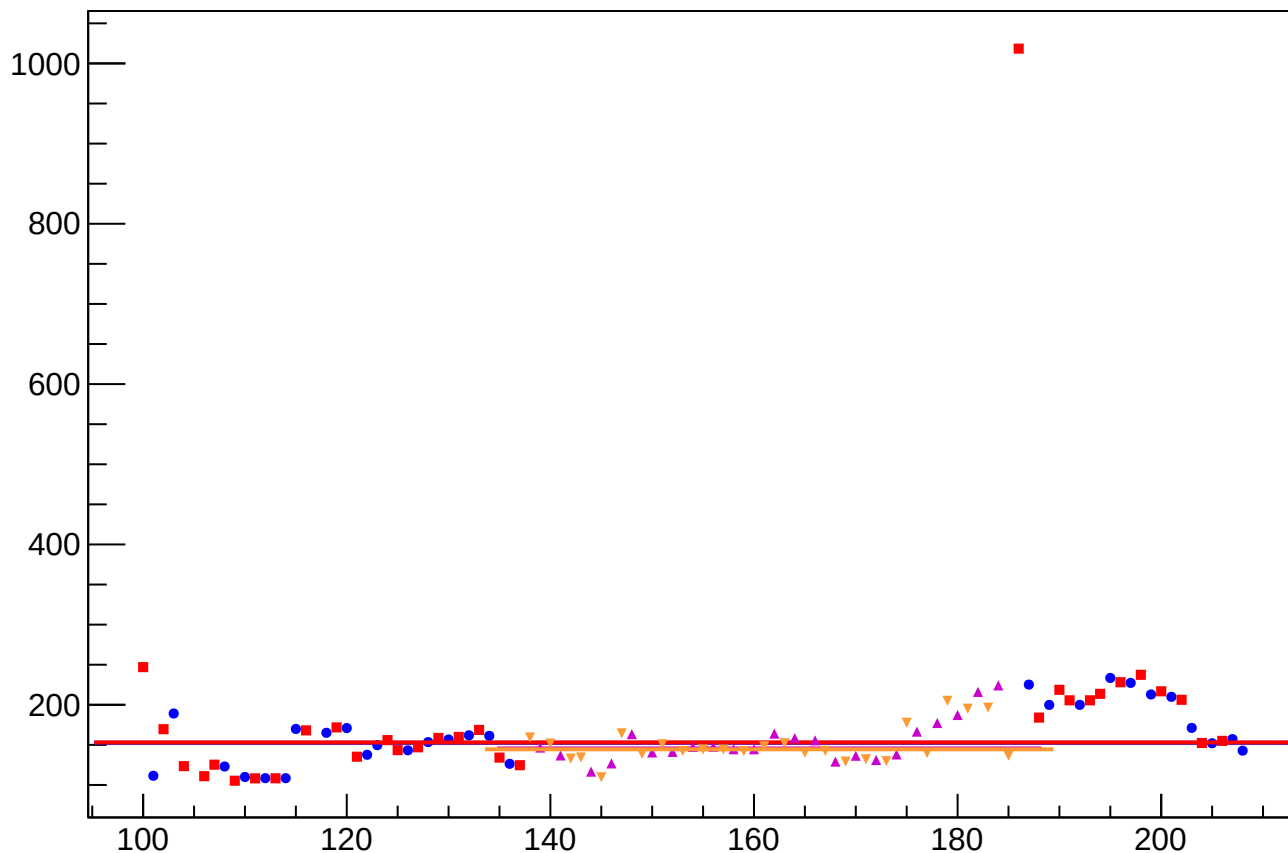
Right: -35.502 ± 29.246 $\chi^2/\text{NDF}: 46.4/58$

In: 0.832 ± 26.874 $\chi^2/\text{NDF}: 45.2/50$

Out: 54.076 ± 26.259 $\chi^2/\text{NDF}: 60.9/55$

All: 28.071 ± 18.782 $\chi^2/\text{NDF}: 108.1/106$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.593 $\pm$ 0.029 χ^2 /NDF: 1458901.0/27

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 153.056 $\pm$ 0.029 χ^2 /NDF: 2263971.0/30

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

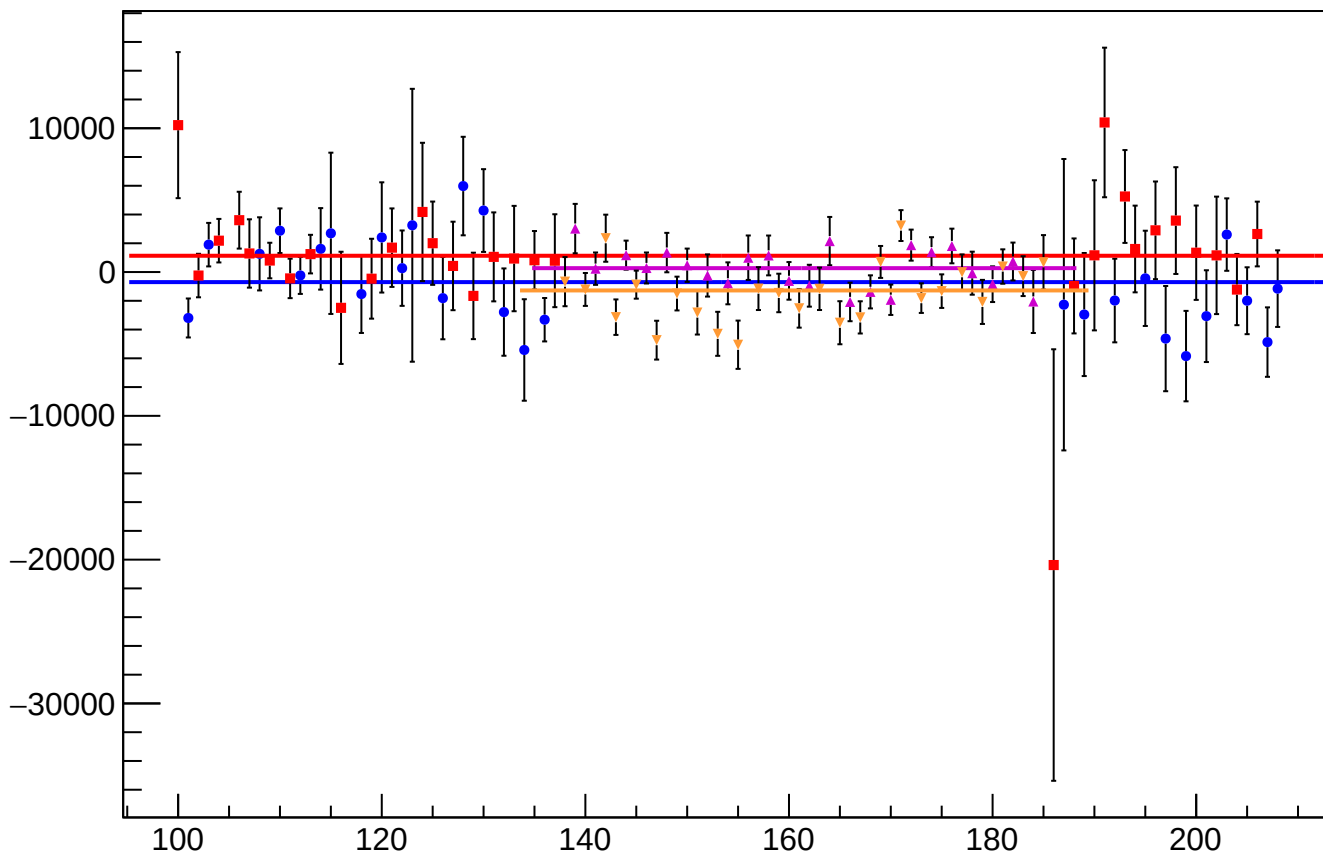
Right: 152.826 $\pm$ 0.021 χ^2 /NDF: 3722997.3/58

In: 148.497 $\pm$ 0.019 χ^2 /NDF: 2136032.4/50

Out: 147.954 $\pm$ 0.019 χ^2 /NDF: 2985938.6/55

All: 148.219 $\pm$ 0.013 χ^2 /NDF: 5122389.5/106

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -700.354 ± 454.903 χ^2/NDF : 36.6/27

Left Out: -1279.328 ± 259.299 χ^2/NDF : 55.9/24

Right Out: 1132.512 ± 431.919 χ^2/NDF : 19.5/30

Left In: 269.952 ± 266.245 χ^2/NDF : 24.3/22

Left: -525.161 ± 185.759 χ^2/NDF : 97.6/47

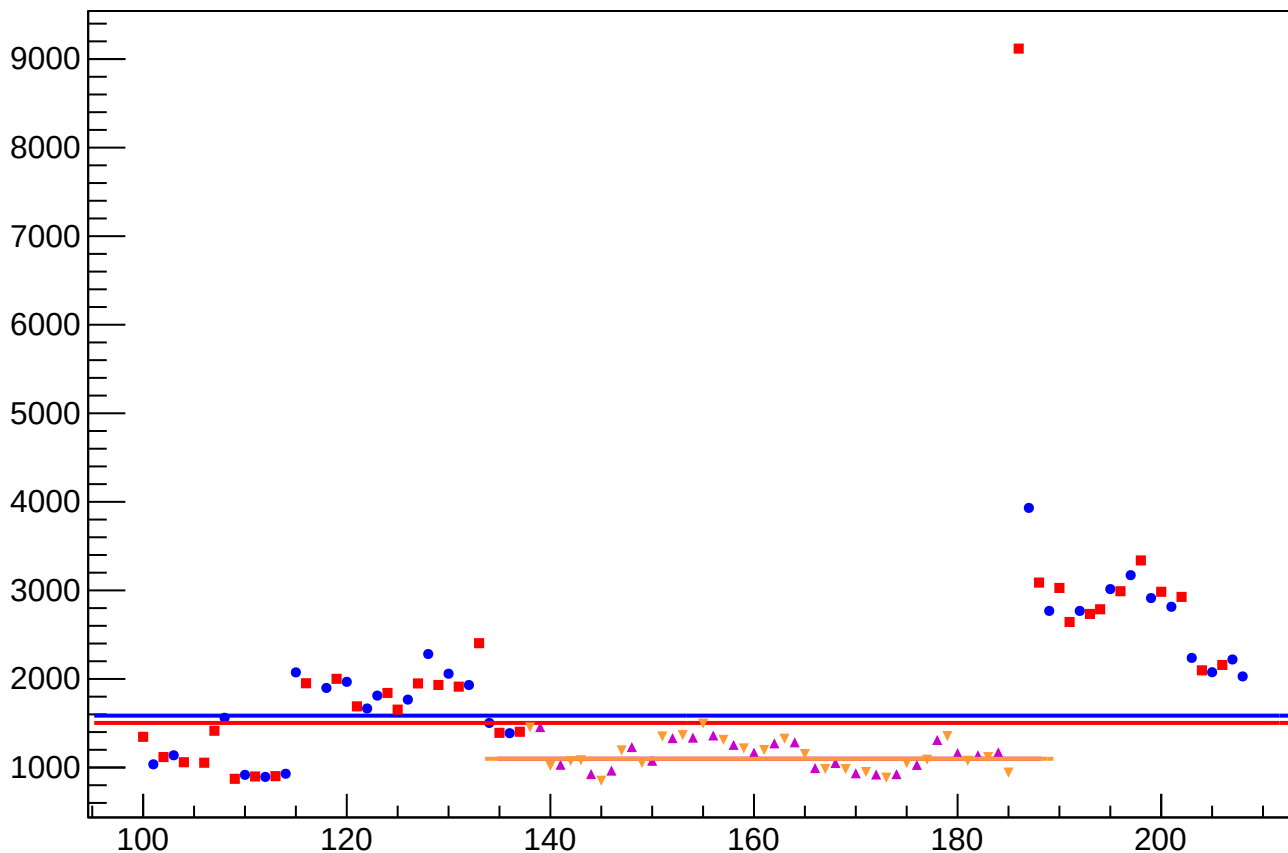
Right: 263.551 ± 313.223 χ^2/NDF : 64.7/58

In: 22.379 ± 229.782 χ^2/NDF : 64.3/50

Out: -640.365 ± 222.313 χ^2/NDF : 98.4/55

All: -319.939 ± 159.775 χ^2/NDF : 166.9/106

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1585.733+/-0.322 χ^2/NDF : 4241539.0/27

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1503.487+/-0.305 χ^2/NDF : 5784783.2/30

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

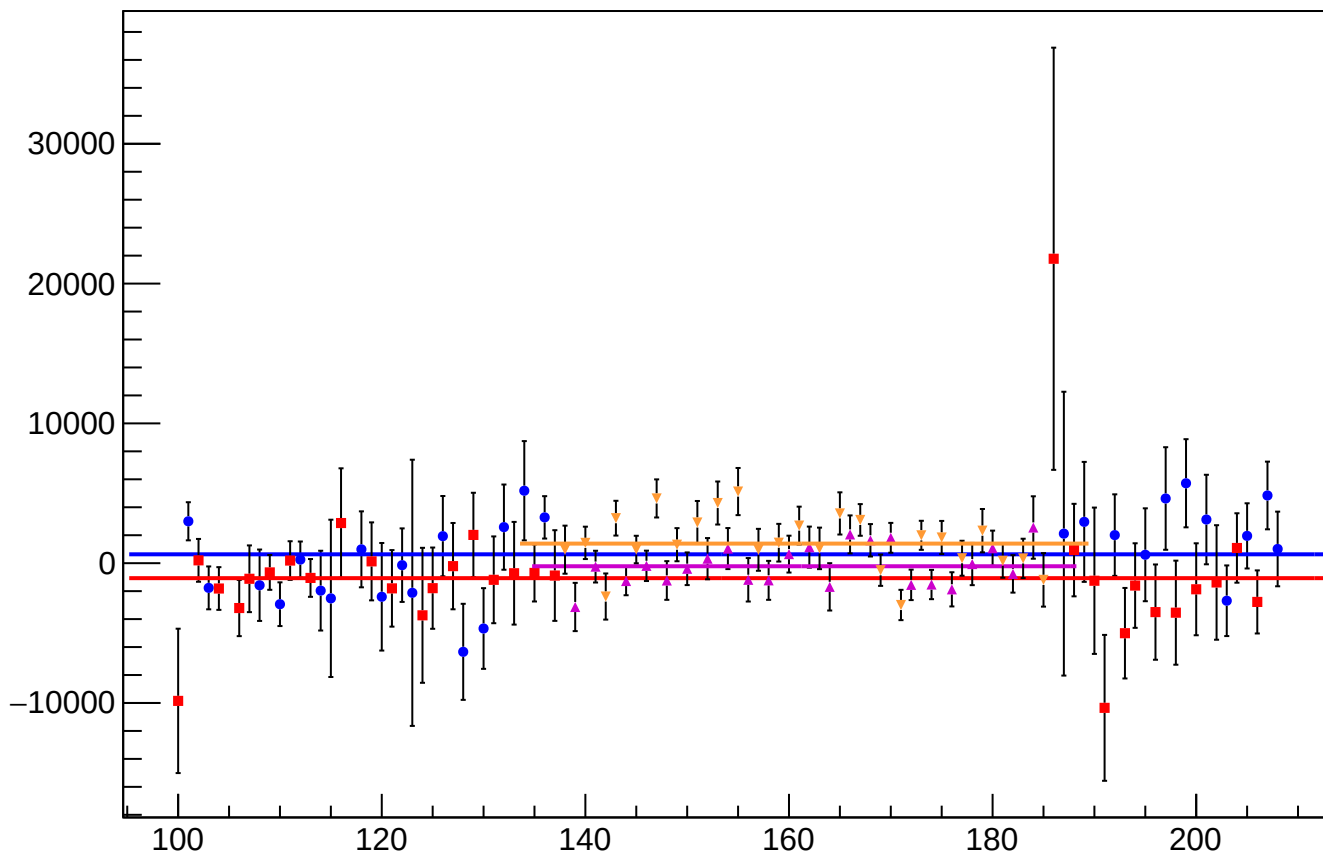
Right: 1542.480+/-0.221 χ^2/NDF : 10060703.3/58

In: 1223.625+/-0.162 χ^2/NDF : 6622800.6/50

Out: 1206.093+/-0.157 χ^2/NDF : 7899026.3/55

All: 1214.570+/-0.113 χ^2/NDF : 14527841.0/102

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 634.638+/-457.442 χ^2/NDF : 36.3/27

Left Out: 1400.458+/-261.804 χ^2/NDF :52.2/24

Right Out: -1071.236+/-434.814 χ^2/NDF : 18.4/30

Left In: -219.393+/-268.852 χ^2/NDF :25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

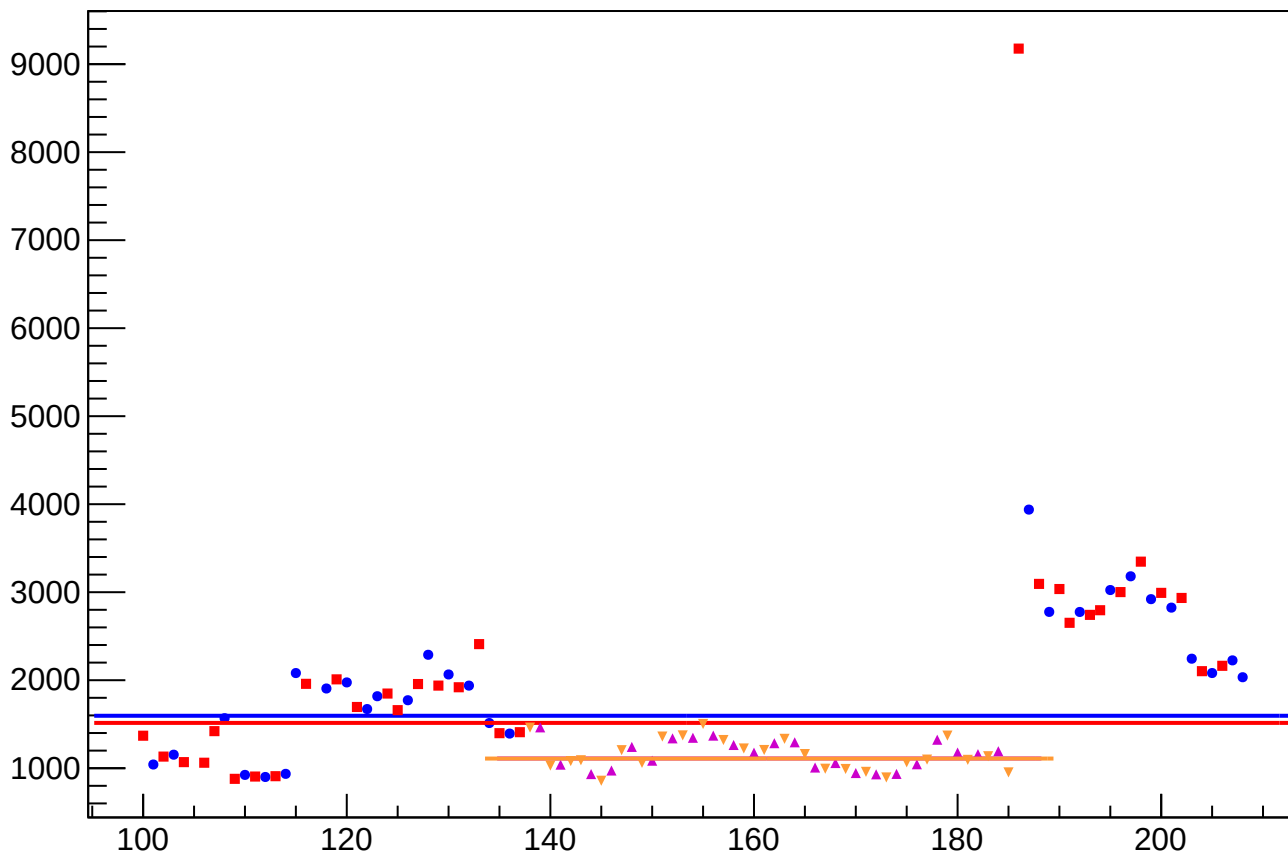
Right: -261.534+/-315.156 χ^2/NDF : 61.9/58

In: -0.128+/-231.784 χ^2/NDF :63.9/50

Out: 742.809+/-224.286 χ^2/NDF :94.3/55

All: 383.551+/-161.180 χ^2/NDF : 163.5/106

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1595.986+/-0.323

χ^2/NDF : 4200034.9/27

Left Out: 1109.761+/-0.185

χ^2/NDF : 812174.9/24

Right Out: 1514.885+/-0.307

χ^2/NDF : 5733034.9/30

Left In: 1110.542+/-0.190

χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133

χ^2/NDF : 1482112.5/47

Right: 1553.380+/-0.223

χ^2/NDF : 9966095.5/58

In: 1235.175+/-0.164

χ^2/NDF : 6544043.1/50

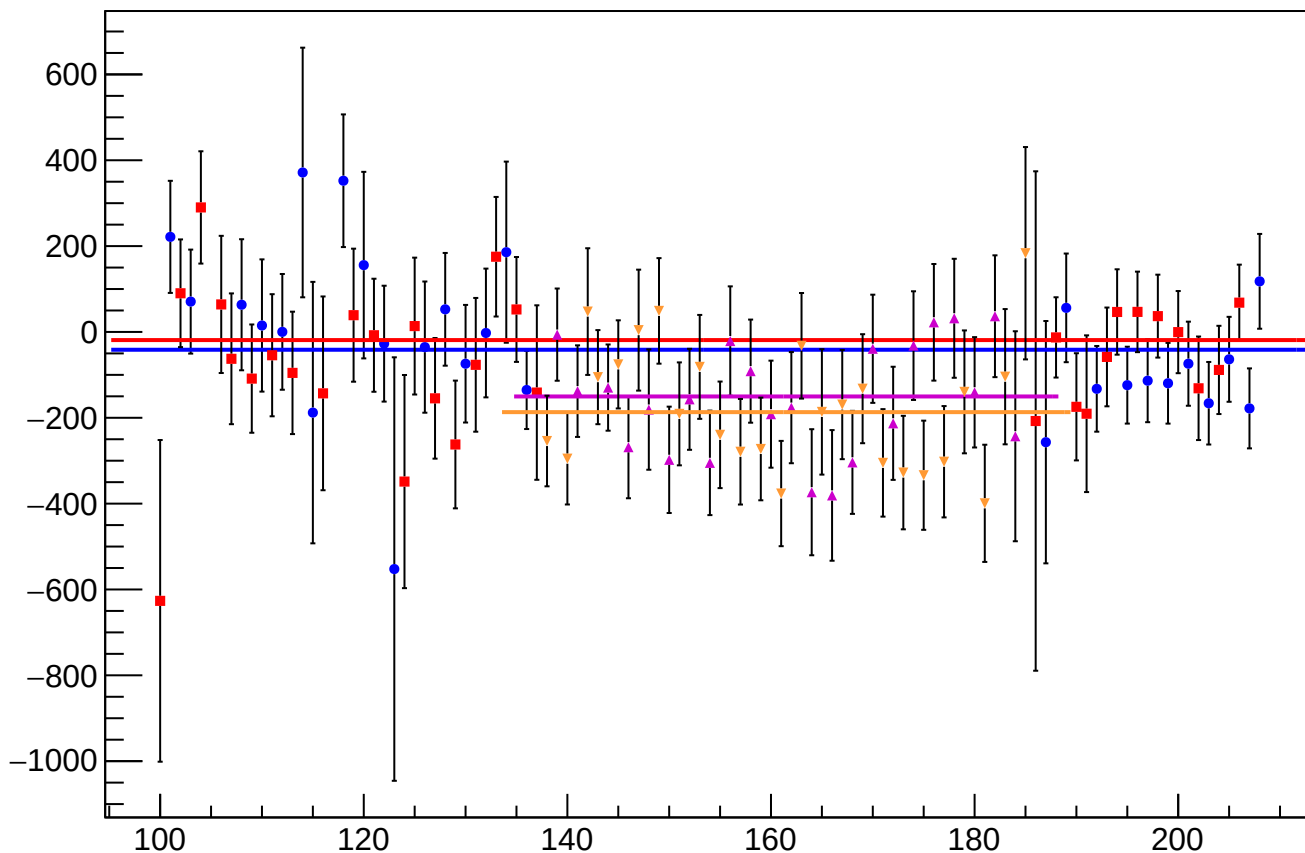
Out: 1217.554+/-0.159

χ^2/NDF : 7819453.5/55

All: 1226.075+/-0.114

χ^2/NDF : 14369466.5/131

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -41.480 ± 23.669 $\chi^2/\text{NDF}: 29.3/27$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -18.950 ± 23.338 $\chi^2/\text{NDF}: 25.1/30$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

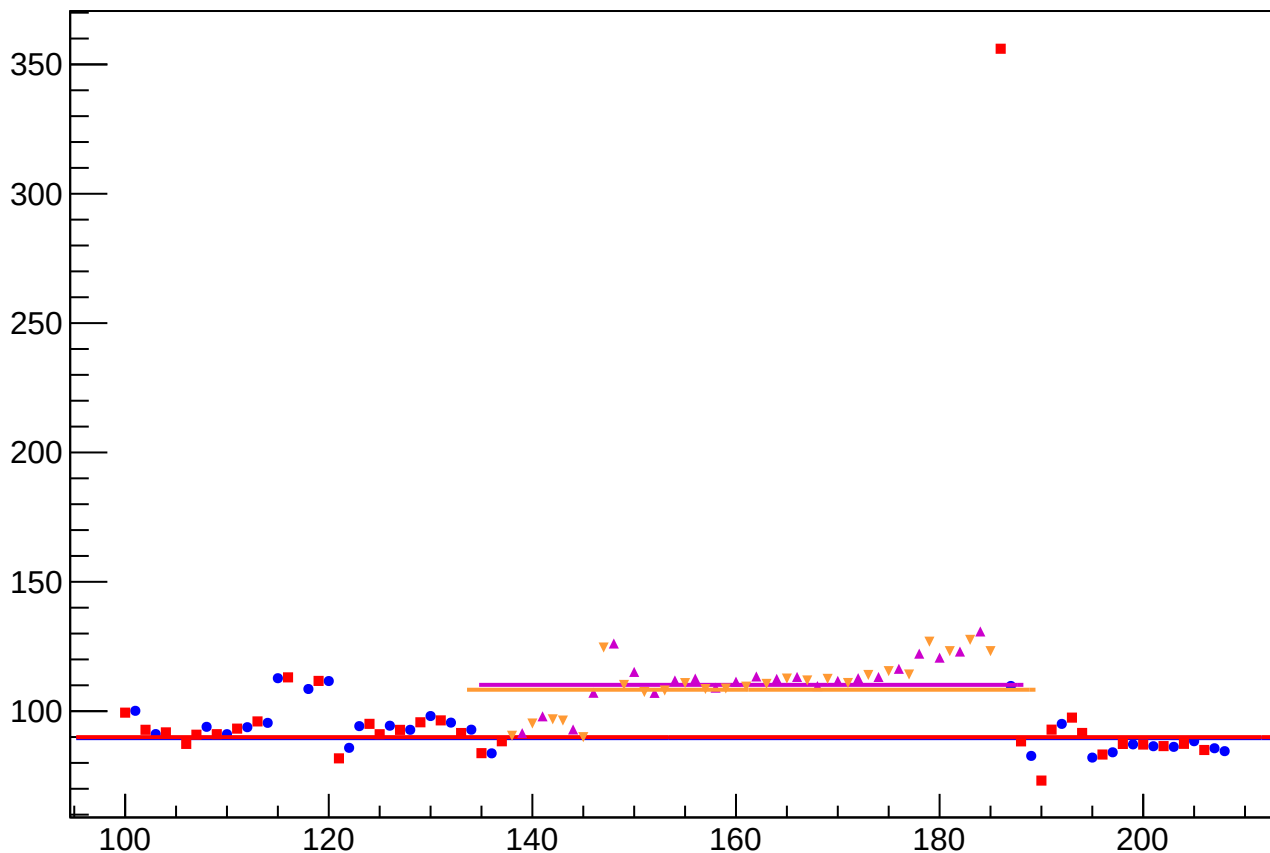
Right: -30.057 ± 16.618 $\chi^2/\text{NDF}: 54.8/58$

In: -89.888 ± 17.637 $\chi^2/\text{NDF}: 59.4/50$

Out: -96.108 ± 17.157 $\chi^2/\text{NDF}: 75.4/55$

All: -93.084 ± 12.298 $\chi^2/\text{NDF}: 134.9/106$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.570 $\pm$ 0.017 χ^2 /NDF: 161597.7/27

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.962 $\pm$ 0.017 χ^2 /NDF: 577458.9/30

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

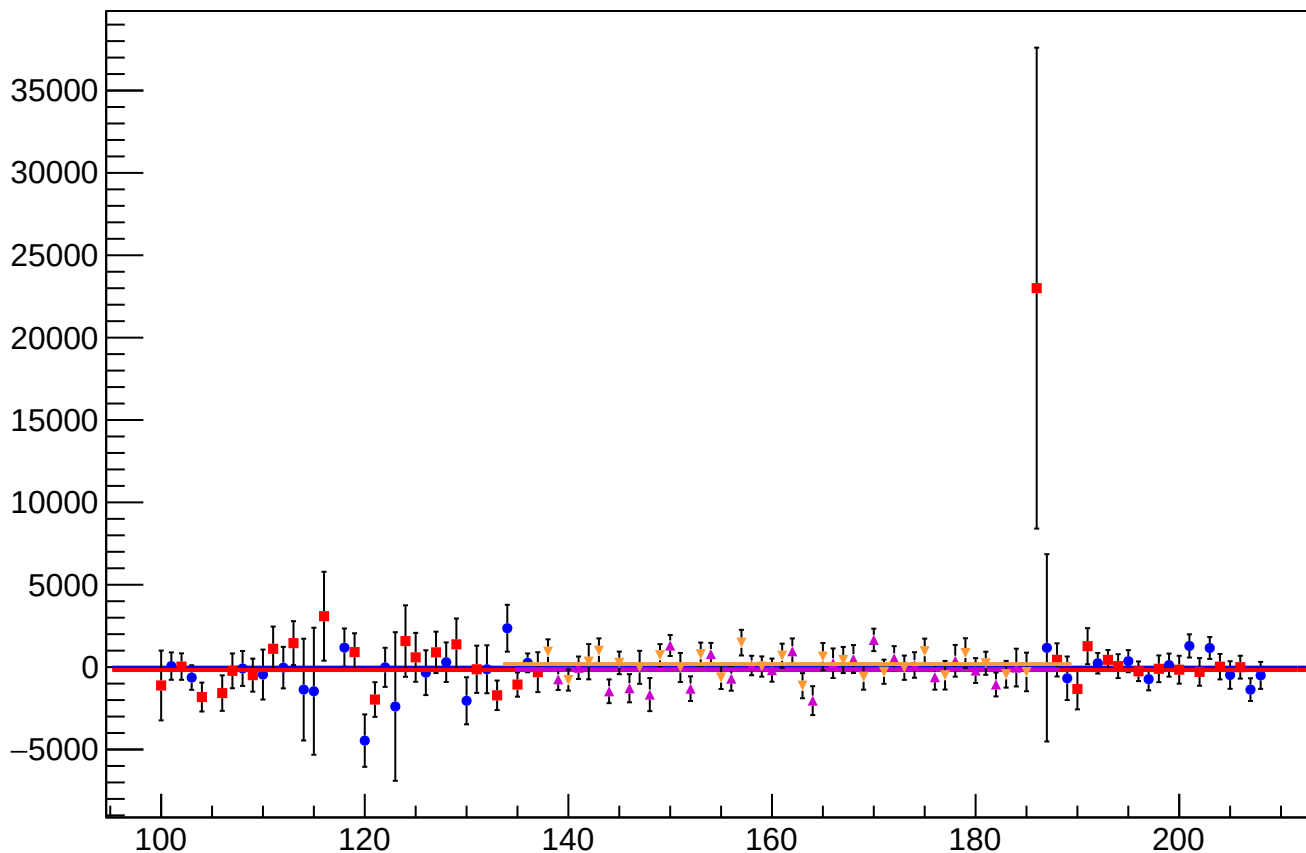
Right: 89.769 $\pm$ 0.012 χ^2 /NDF: 739335.5/58

In: 98.734 $\pm$ 0.012 χ^2 /NDF: 1082598.8/50

Out: 98.384 $\pm$ 0.012 χ^2 /NDF: 1474825.7/55

All: 98.554 $\pm$ 0.009 χ^2 /NDF: 2557828.3/106

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -32.945 ± 176.986 χ^2/NDF : 28.4/27

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -176.691 ± 174.563 χ^2/NDF : 27.1/30

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

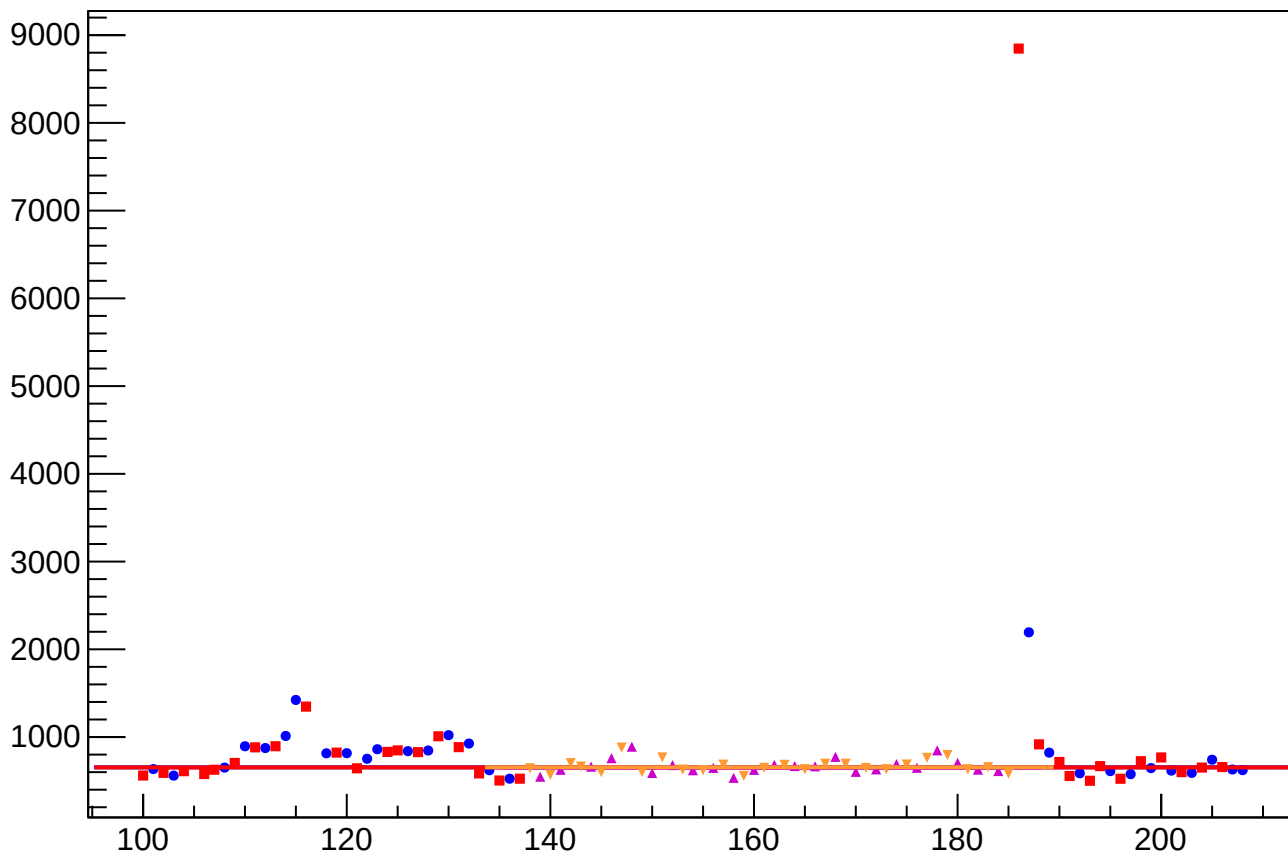
Right: -105.809 ± 124.283 χ^2/NDF : 55.8/58

In: -86.531 ± 117.514 χ^2/NDF : 64.7/50

Out: 27.290 ± 115.350 χ^2/NDF : 47.9/55

All: -28.563 ± 82.319 χ^2/NDF : 113.1/106

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 655.309+/-0.125 χ^2/NDF : 1007066.8/27

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 653.894+/-0.123 χ^2/NDF : 1765691.0/30

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

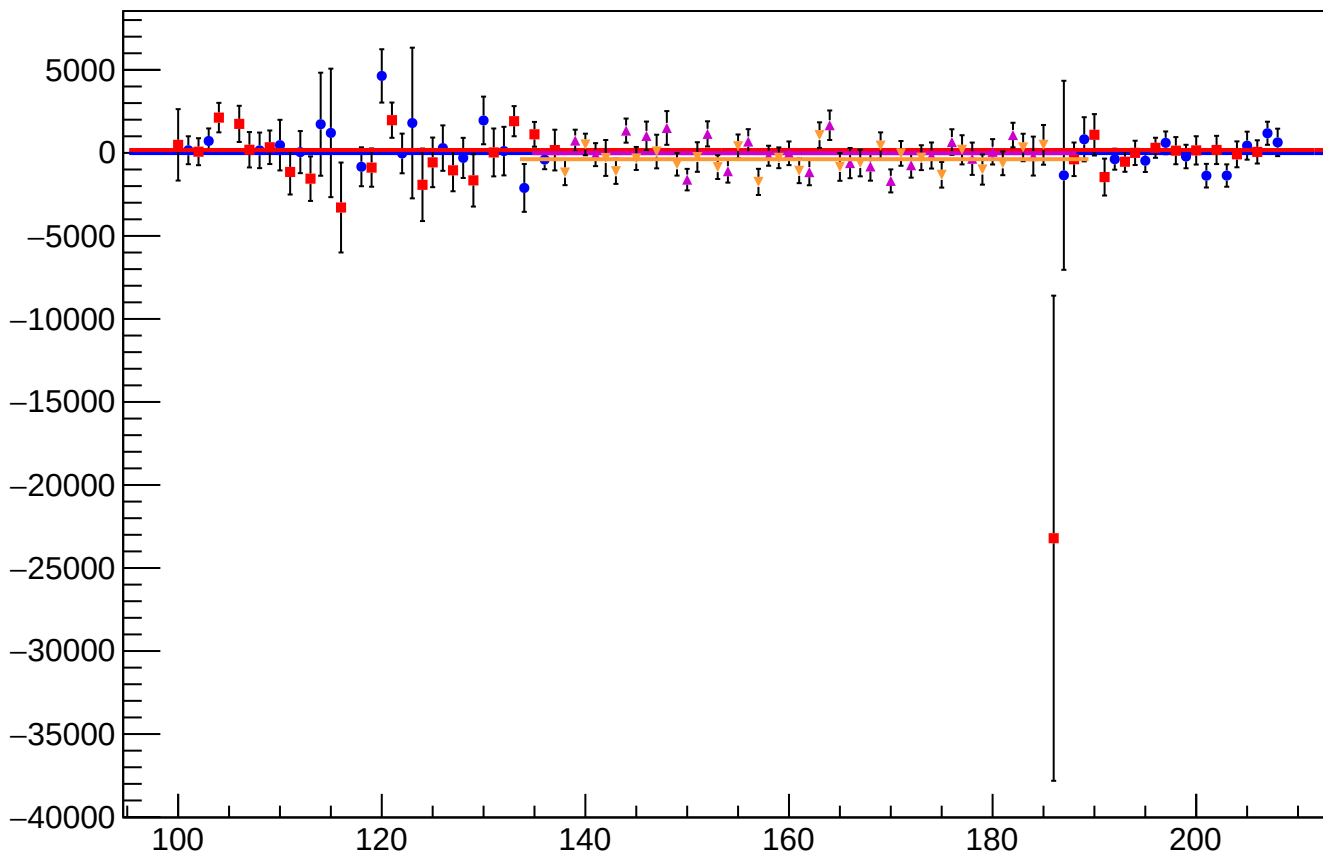
Right: 654.592+/-0.088 χ^2/NDF : 2772822.6/58

In: 652.834+/-0.083 χ^2/NDF : 1473882.8/50

Out: 654.604+/-0.082 χ^2/NDF : 2133099.6/55

All: 653.736+/-0.058 χ^2/NDF : 3607213.6/106

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -11.190 ± 178.782 $\chi^2/\text{NDF}: 28.8/27$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 173.469 ± 176.443 $\chi^2/\text{NDF}: 30.8/30$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

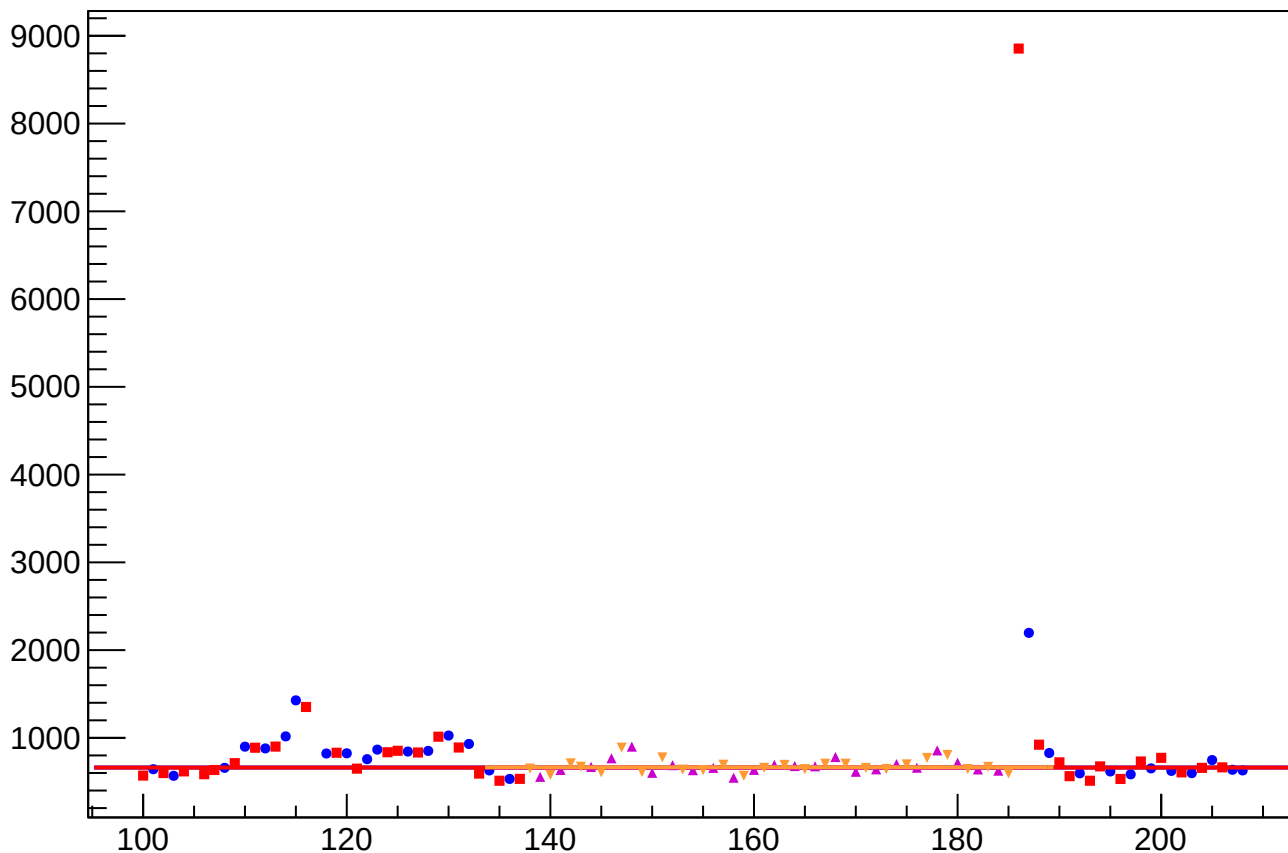
Right: 82.355 ± 125.583 $\chi^2/\text{NDF}: 60.1/58$

In: -13.182 ± 119.025 $\chi^2/\text{NDF}: 66.0/50$

Out: -137.062 ± 116.826 $\chi^2/\text{NDF}: 55.2/55$

All: -76.277 ± 83.375 $\chi^2/\text{NDF}: 121.7/106$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 662.364+/-0.126 χ^2/NDF : 984975.6/27

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.527+/-0.125 χ^2/NDF : 1729280.3/30

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

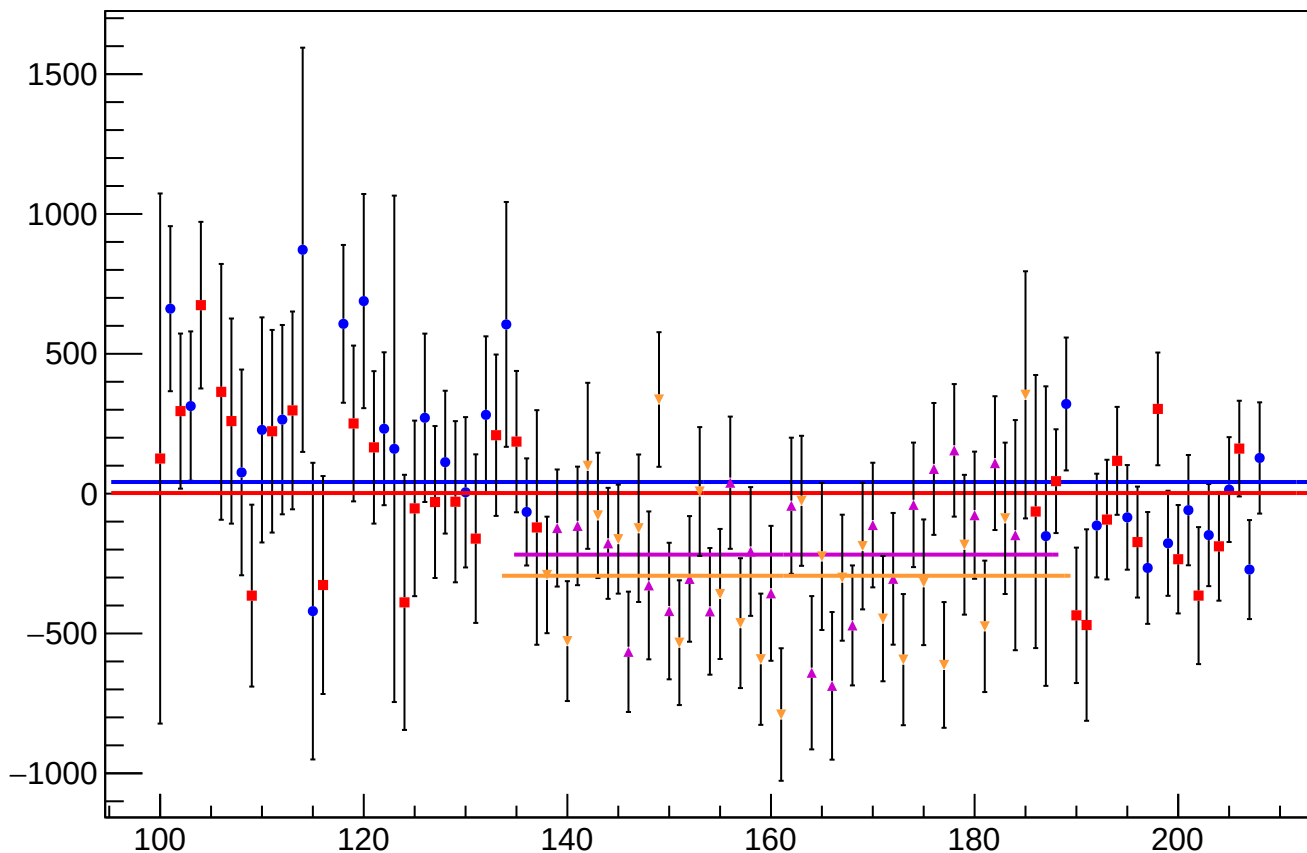
Right: 661.940+/-0.089 χ^2/NDF : 2714278.1/58

In: 661.544+/-0.084 χ^2/NDF : 1434231.4/50

Out: 663.350+/-0.083 χ^2/NDF : 2086714.1/55

All: 662.464+/-0.059 χ^2/NDF : 3521180.0/106

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

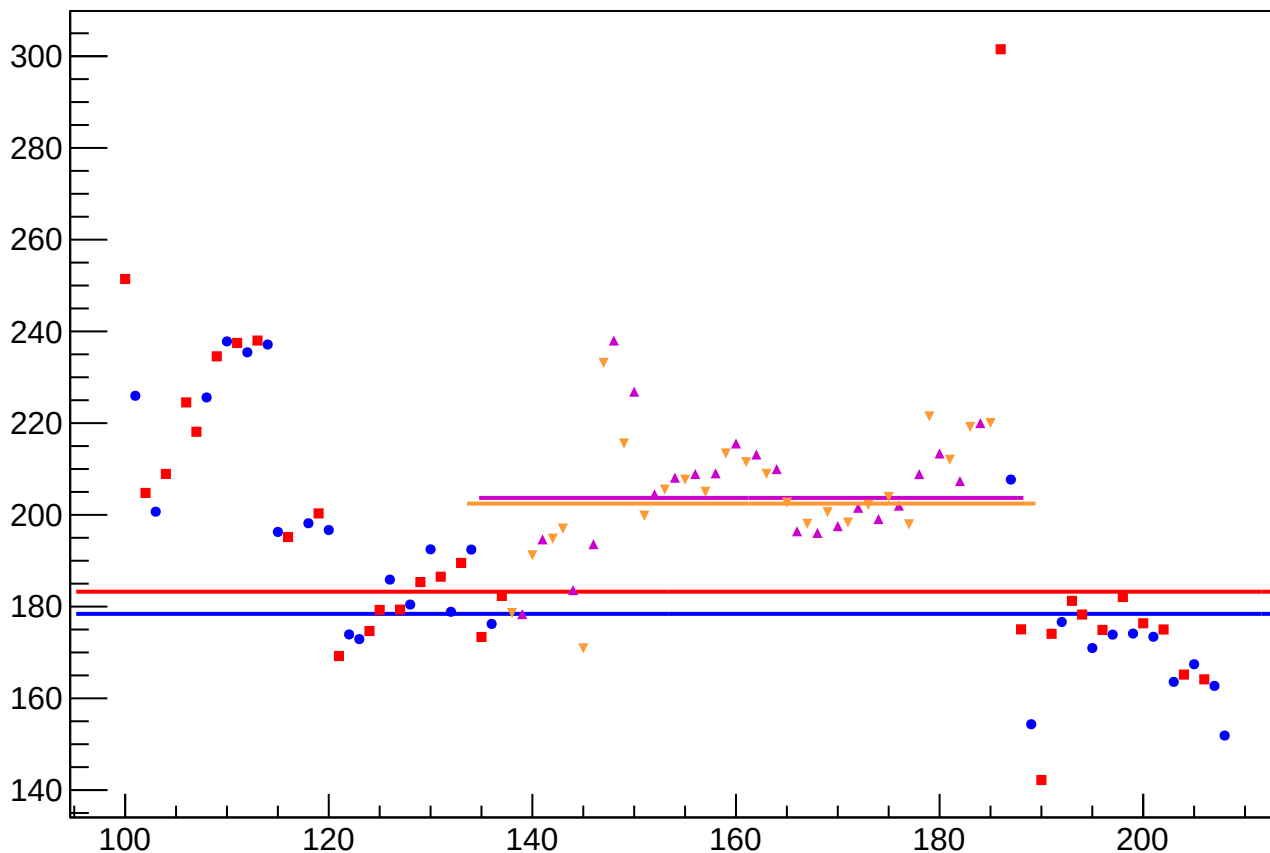


Right In: 41.582 ± 47.340 $\chi^2/\text{NDF}: 30.0/27$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 2.188 ± 47.565 $\chi^2/\text{NDF}: 28.1/30$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 21.978 ± 33.554 $\chi^2/\text{NDF}: 58.5/58$
 In: -84.201 ± 33.985 $\chi^2/\text{NDF}: 65.9/50$
 Out: -146.830 ± 33.505 $\chi^2/\text{NDF}: 77.9/55$

All: -115.962 ± 23.859 $\chi^2/\text{NDF}: 145.5/106$

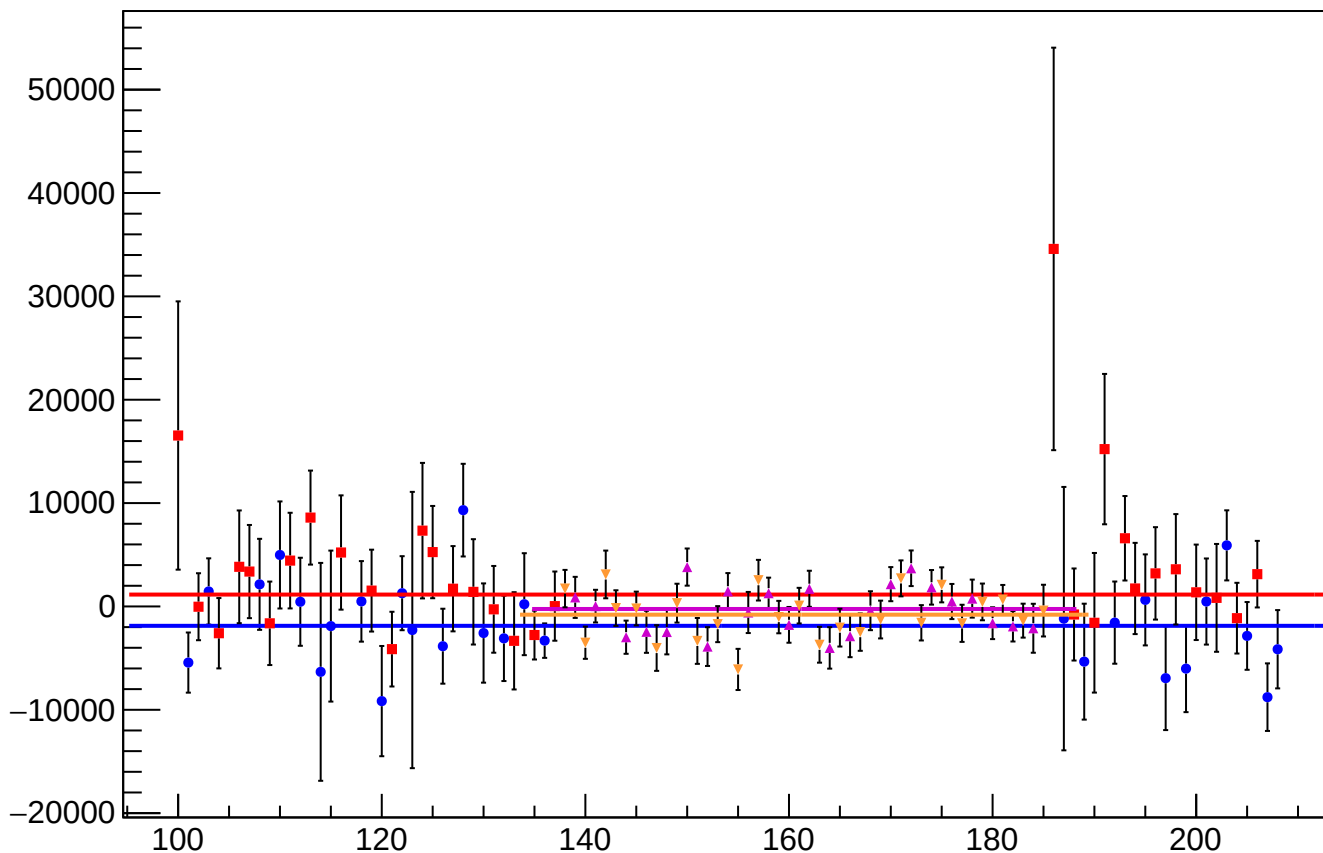
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 178.417 $\pm$ 0.033 χ^2 /NDF: 343278.4/27
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 183.249 $\pm$ 0.034 χ^2 /NDF: 466951.4/30
 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: 180.822 $\pm$ 0.024 χ^2 /NDF: 820600.3/58
 In: 190.669 $\pm$ 0.024 χ^2 /NDF:755905.9/50
 Out: 192.927 $\pm$ 0.024 χ^2 /NDF:789879.3/55
 All: 191.814 $\pm$ 0.017 χ^2 /NDF: 1550262.8/106

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1875.100 $\pm$ 735.084 χ^2 /NDF: 29.4/27

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF:35.7/24

Right Out: 1148.827 $\pm$ 767.923 χ^2 /NDF: 25.3/30

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

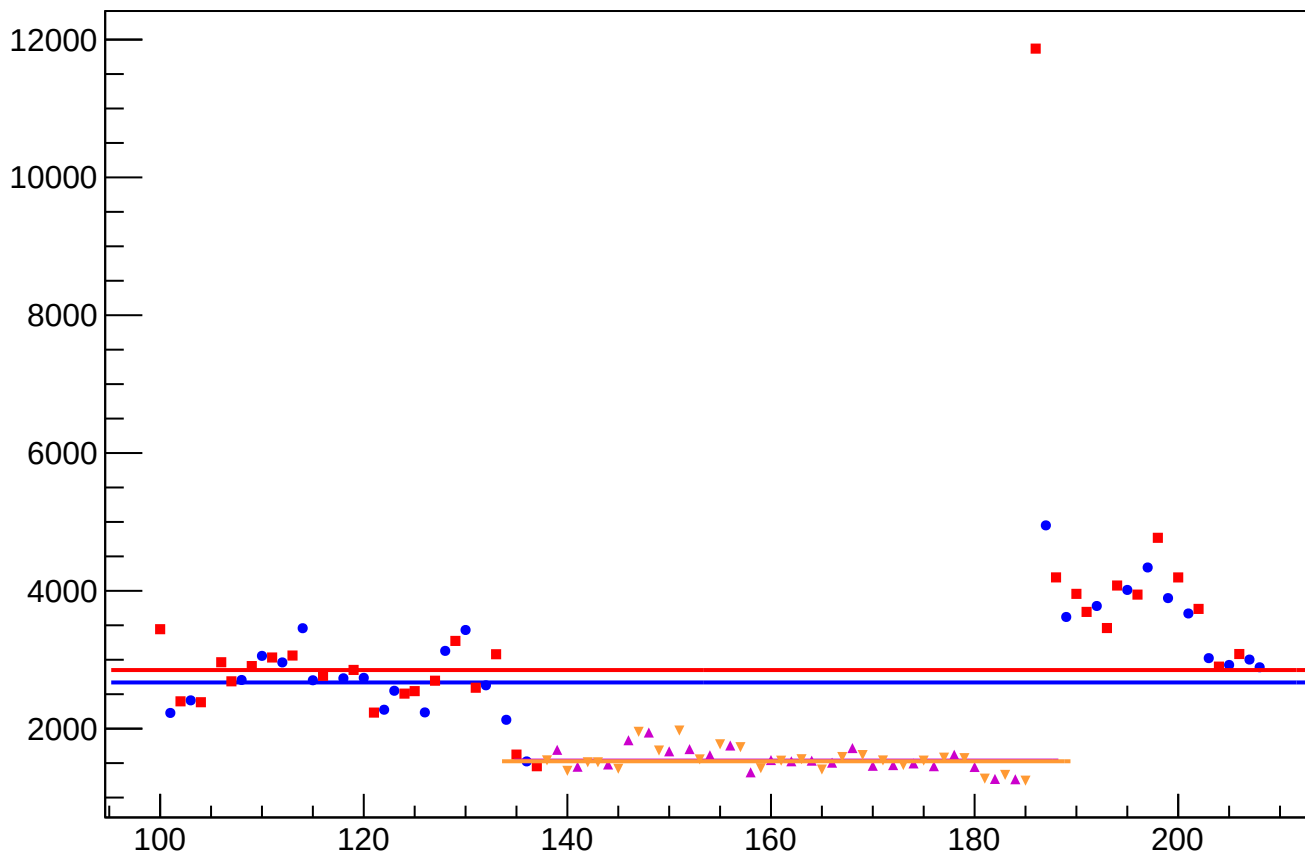
Right: -429.175 $\pm$ 531.013 χ^2 /NDF: 62.8/58

In: -574.374 $\pm$ 330.385 χ^2 /NDF:69.0/50

Out: -449.454 $\pm$ 324.362 χ^2 /NDF:66.3/55

All: -510.765 $\pm$ 231.459 χ^2 /NDF: 135.4/106

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2670.503+/-0.520

χ^2/NDF : 2216090.4/27

Left Out: 1526.712+/-0.253

χ^2/NDF : 394892.7/24

Right Out: 2850.468+/-0.543

χ^2/NDF : 2587175.3/30

Left In: 1536.538+/-0.262

χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182

χ^2/NDF : 745995.2/47

Right: 2756.556+/-0.375

χ^2/NDF : 4860585.6/58

In: 1765.607+/-0.234

χ^2/NDF : 6364461.4/50

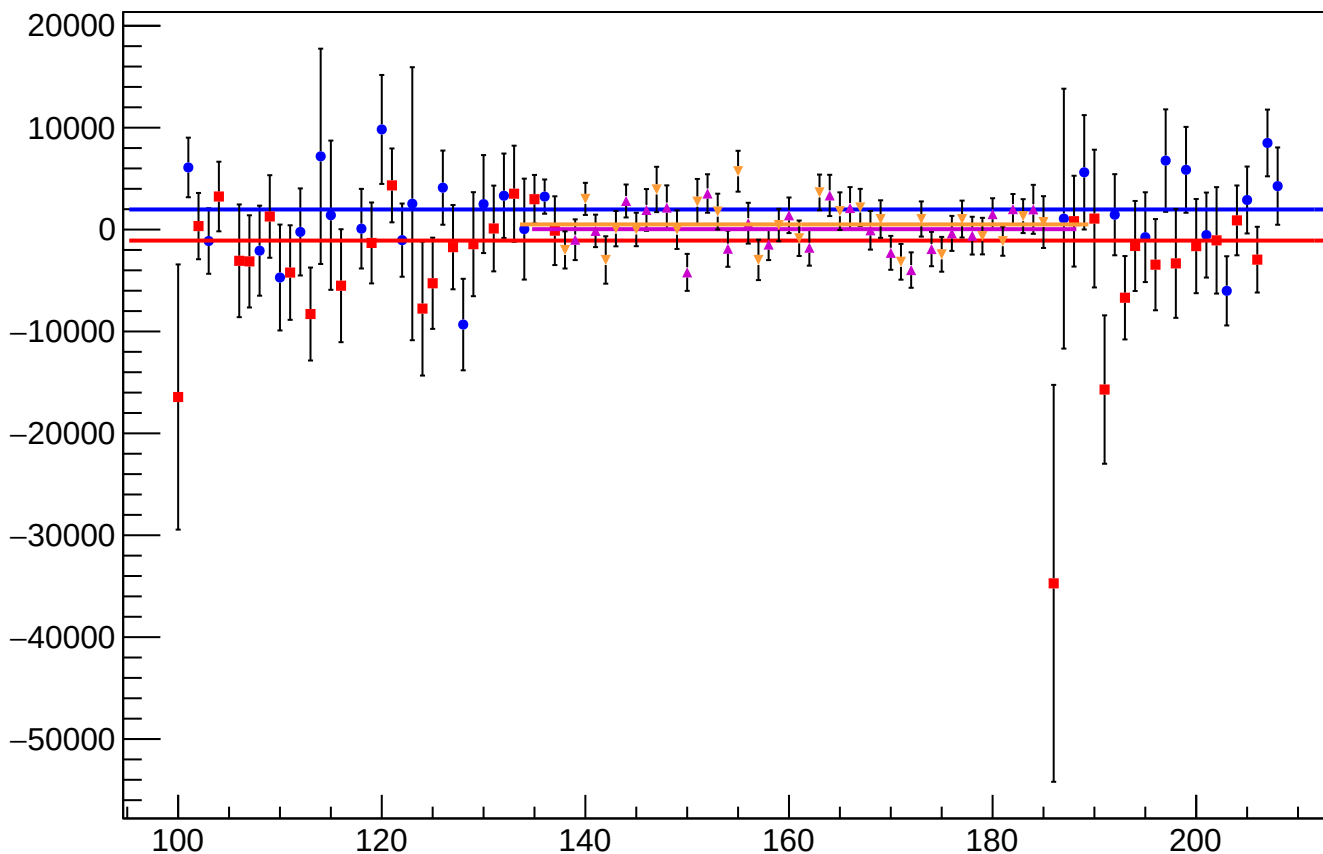
Out: 1762.885+/-0.229

χ^2/NDF : 7864823.6/55

All: 1764.221+/-0.164

χ^2/NDF : 14229354.1/131

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1974.221+/-737.520 χ^2/NDF : 29.4/27

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1079.845+/-770.329 χ^2/NDF : 26.0/30

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

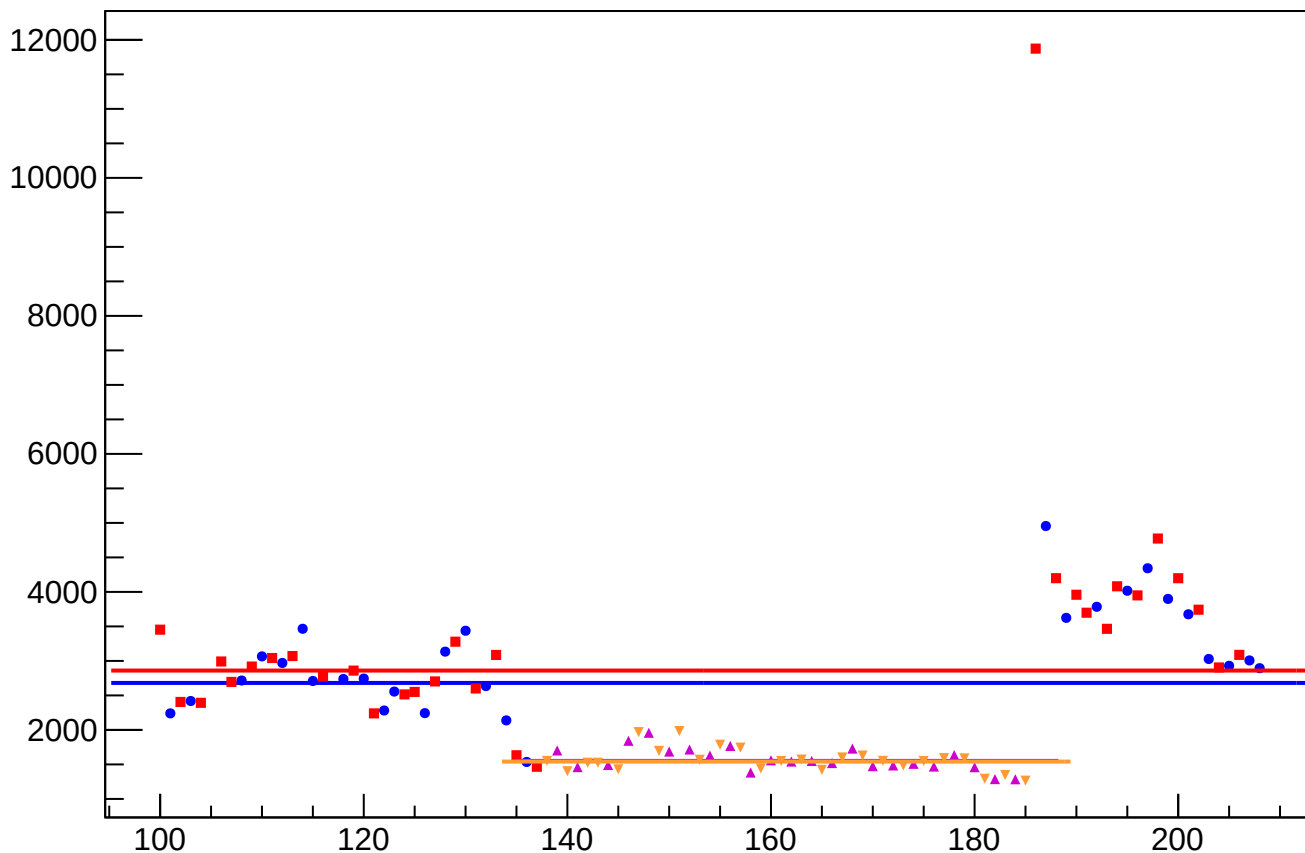
Right: 513.610+/-532.727 χ^2/NDF : 63.6/58

In: 434.471+/-333.038 χ^2/NDF : 68.5/50

Out: 221.839+/-327.014 χ^2/NDF : 64.8/55

All: 326.215+/-233.334 χ^2/NDF : 133.5/106

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2680.990 $\pm$ 0.522 χ^2/NDF : 2185424.9/27

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF : 382045.4/24

Right Out: 2860.461 $\pm$ 0.545 χ^2/NDF : 2562073.5/30

Left In: 1551.063 $\pm$ 0.264 χ^2/NDF : 338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2/NDF : 721657.1/47

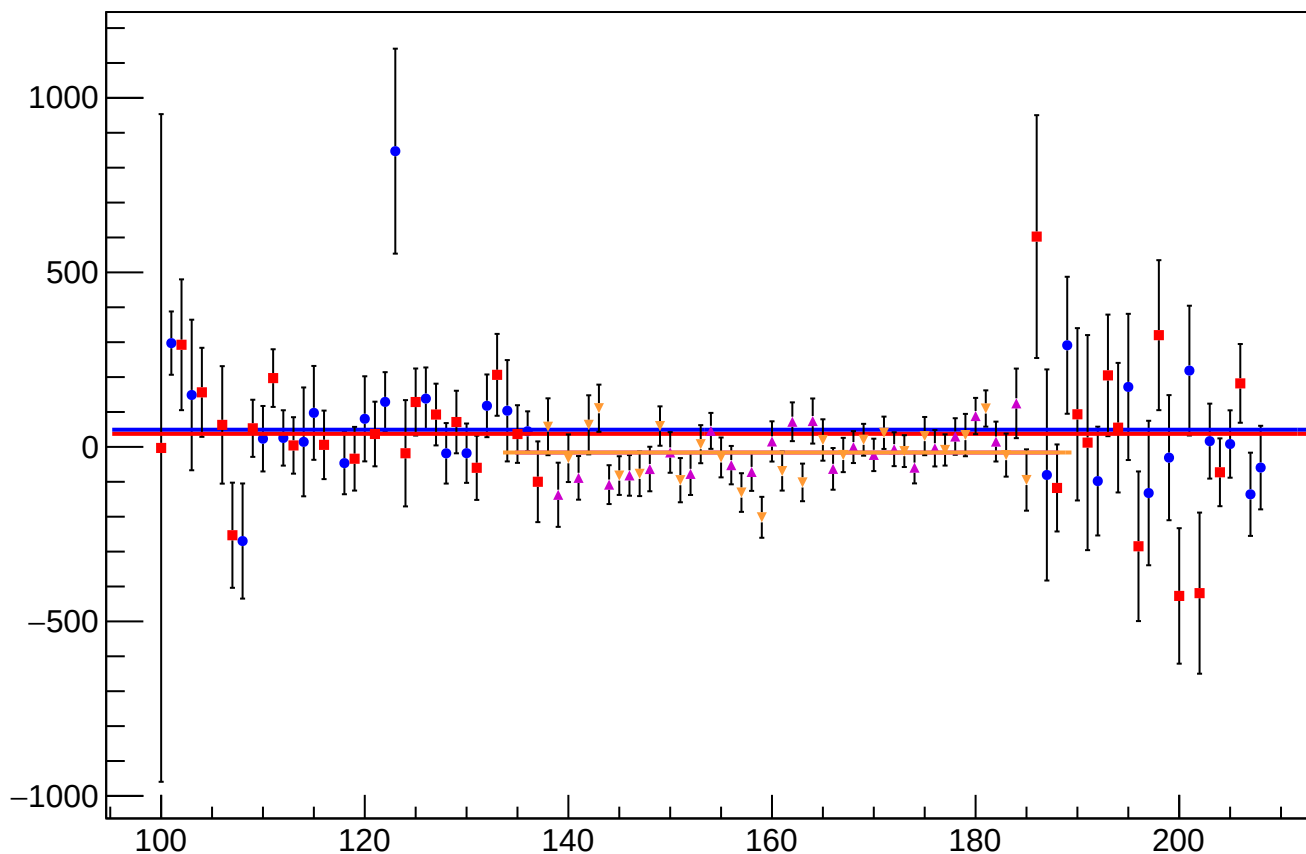
Right: 2766.822 $\pm$ 0.377 χ^2/NDF : 4804138.9/58

In: 1781.467 $\pm$ 0.235 χ^2/NDF : 6261510.5/50

Out: 1778.992 $\pm$ 0.231 χ^2/NDF : 7752542.4/55

All: 1780.207 $\pm$ 0.165 χ^2/NDF : 14014109.2/100

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 49.213 ± 20.921 $\chi^2/\text{NDF}: 32.5/27$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 37.374 ± 21.270 $\chi^2/\text{NDF}: 39.0/30$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

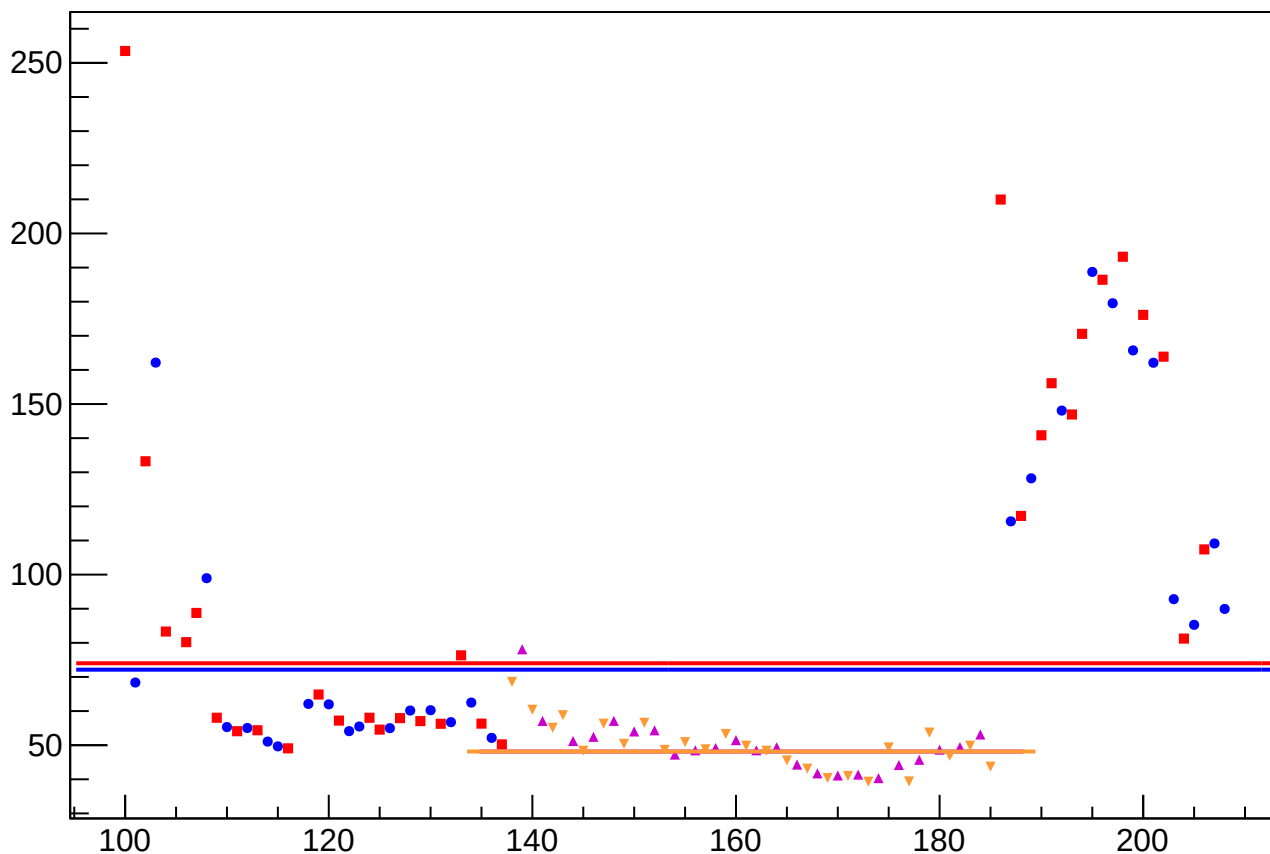
Right: 43.391 ± 14.915 $\chi^2/\text{NDF}: 71.6/58$

In: -0.689 ± 10.178 $\chi^2/\text{NDF}: 65.1/50$

Out: -4.225 ± 10.007 $\chi^2/\text{NDF}: 83.6/55$

All: -2.487 ± 7.136 $\chi^2/\text{NDF}: 148.8/106$

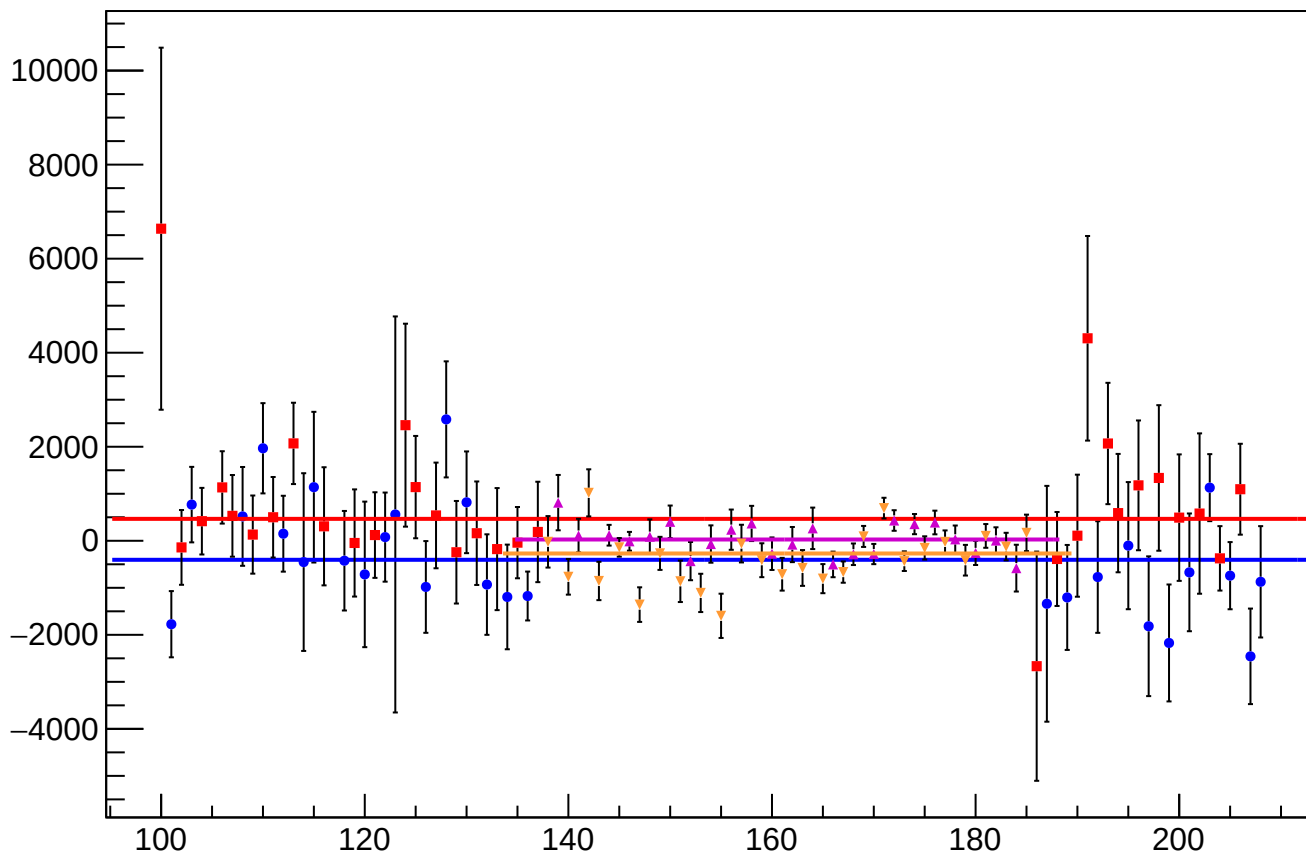
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.136 $\pm$ 0.015 χ^2 /NDF: 4452803.6/27
 Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF:655250.3/24
 Right Out: 74.009 $\pm$ 0.015 χ^2 /NDF: 5255142.8/30
 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: 73.057 $\pm$ 0.011 χ^2 /NDF: 9715833.6/58
 In: 53.819 $\pm$ 0.007 χ^2 /NDF:7036323.5/50
 Out: 53.866 $\pm$ 0.007 χ^2 /NDF:8214013.8/55
 All: 53.843 $\pm$ 0.005 χ^2 /NDF: 15250359.7/106

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -404.404 ± 189.804 χ^2/NDF : 37.9/27

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 466.334 ± 187.675 χ^2/NDF : 20.0/30

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

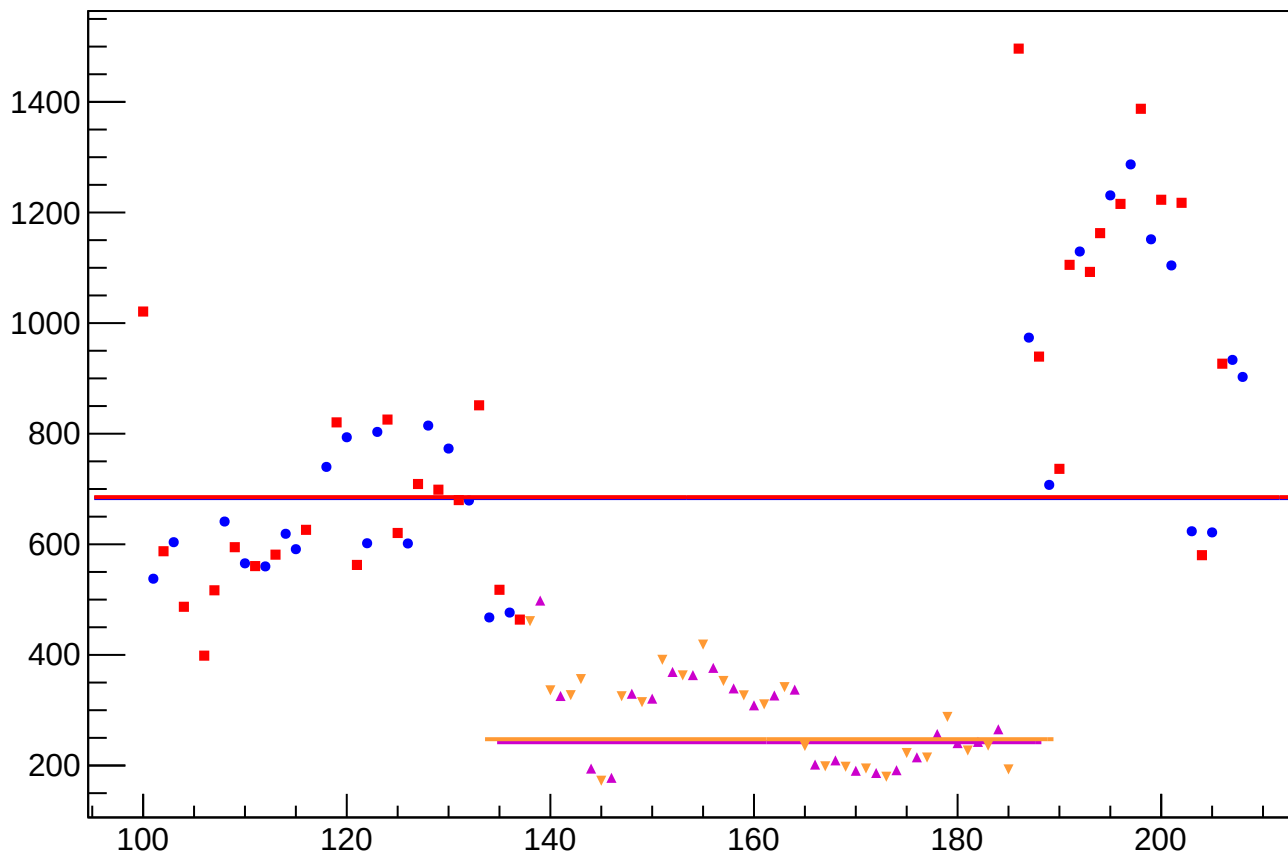
Right: 35.878 ± 133.453 χ^2/NDF : 68.5/58

In: -12.459 ± 57.582 χ^2/NDF : 67.6/50

Out: -201.546 ± 57.304 χ^2/NDF : 104.1/55

All: -107.461 ± 40.618 χ^2/NDF : 177.1/106

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 683.583+/-0.134 χ^2/NDF : 2365255.8/27

Left Out: 247.570+/-0.043 χ^2/NDF :2780931.0/24

Right Out: 685.295+/-0.133 χ^2/NDF : 3260563.1/30

Left In: 242.117+/-0.043 χ^2/NDF :2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

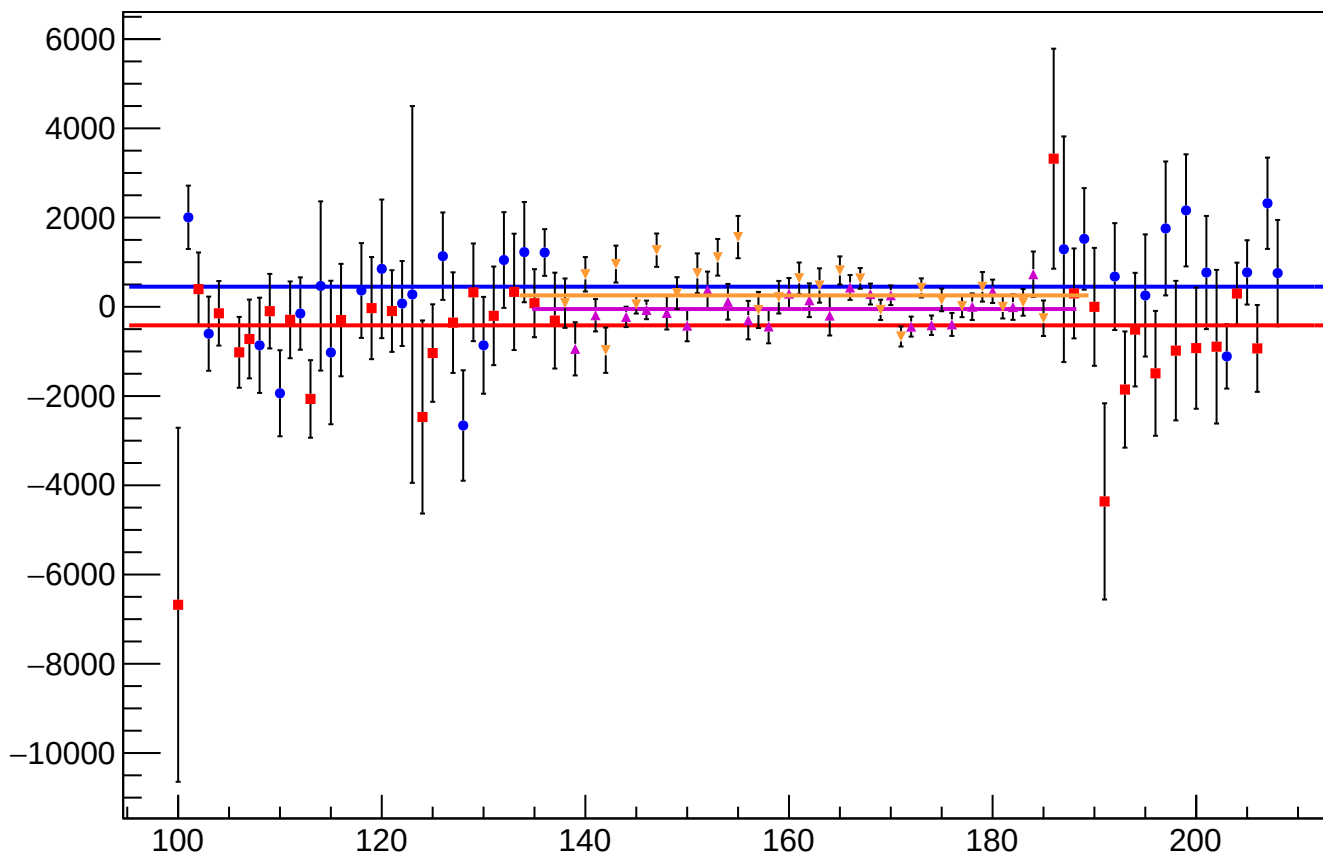
Right: 684.449+/-0.094 χ^2/NDF : 5625901.2/58

In: 282.748+/-0.041 χ^2/NDF :14655201.1/50

Out: 288.379+/-0.041 χ^2/NDF :15906981.2/55

All: 285.577+/-0.029 χ^2/NDF : 30571791.9/10

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 451.367 ± 191.560 χ^2/NDF : 38.9/27

Left Out: 255.995 ± 61.418 χ^2/NDF : 63.6/24

Right Out: -415.615 ± 189.773 χ^2/NDF : 20.4/30

Left In: -49.832 ± 61.781 χ^2/NDF : 27.5/22

Left: 103.982 ± 43.557 χ^2/NDF : 103.4/47

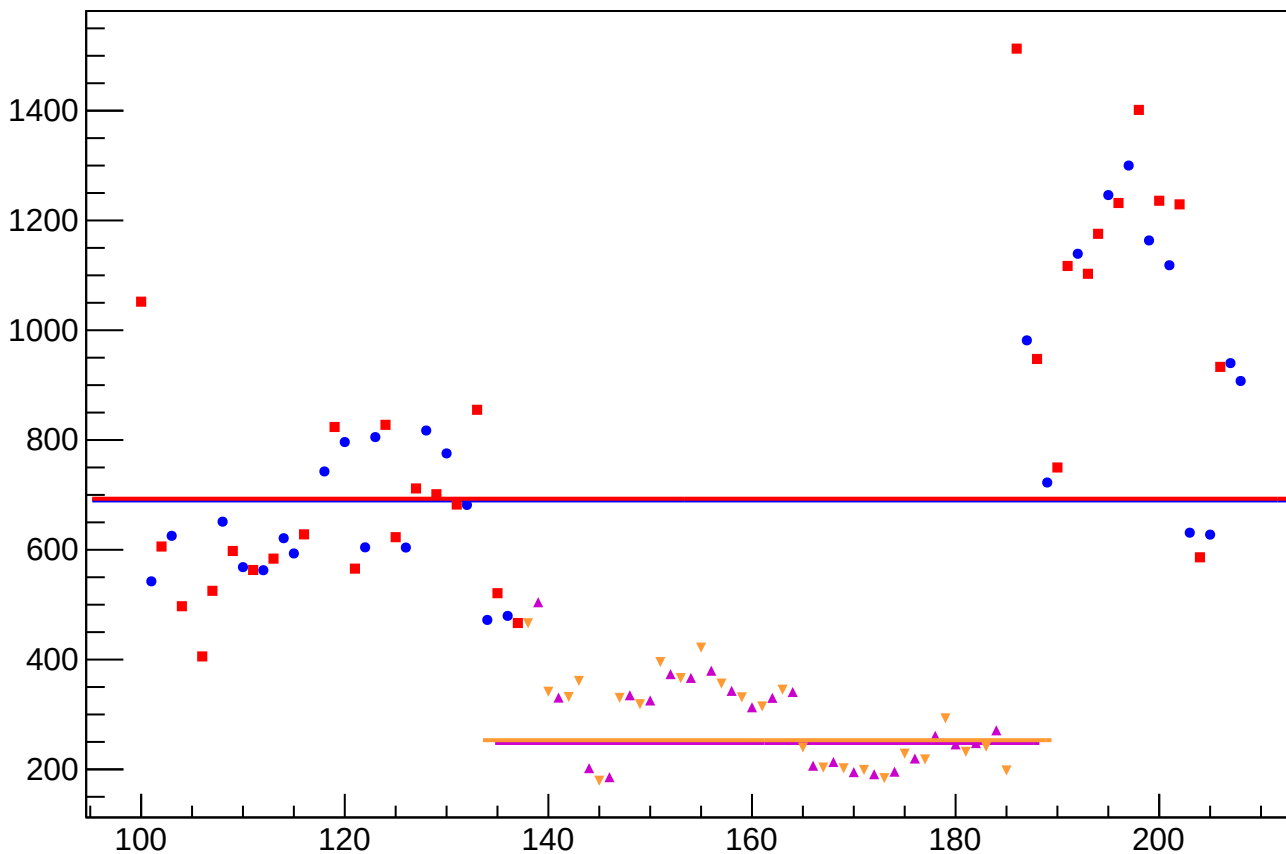
Right: 13.814 ± 134.817 χ^2/NDF : 69.7/58

In: -2.611 ± 58.799 χ^2/NDF : 72.6/50

Out: 192.318 ± 58.434 χ^2/NDF : 95.4/55

All: 95.460 ± 41.448 χ^2/NDF : 173.5/106

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 689.917 $\pm$ 0.135 χ^2 /NDF: 2368820.5/27

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 693.084 $\pm$ 0.134 χ^2 /NDF: 3233580.9/30

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

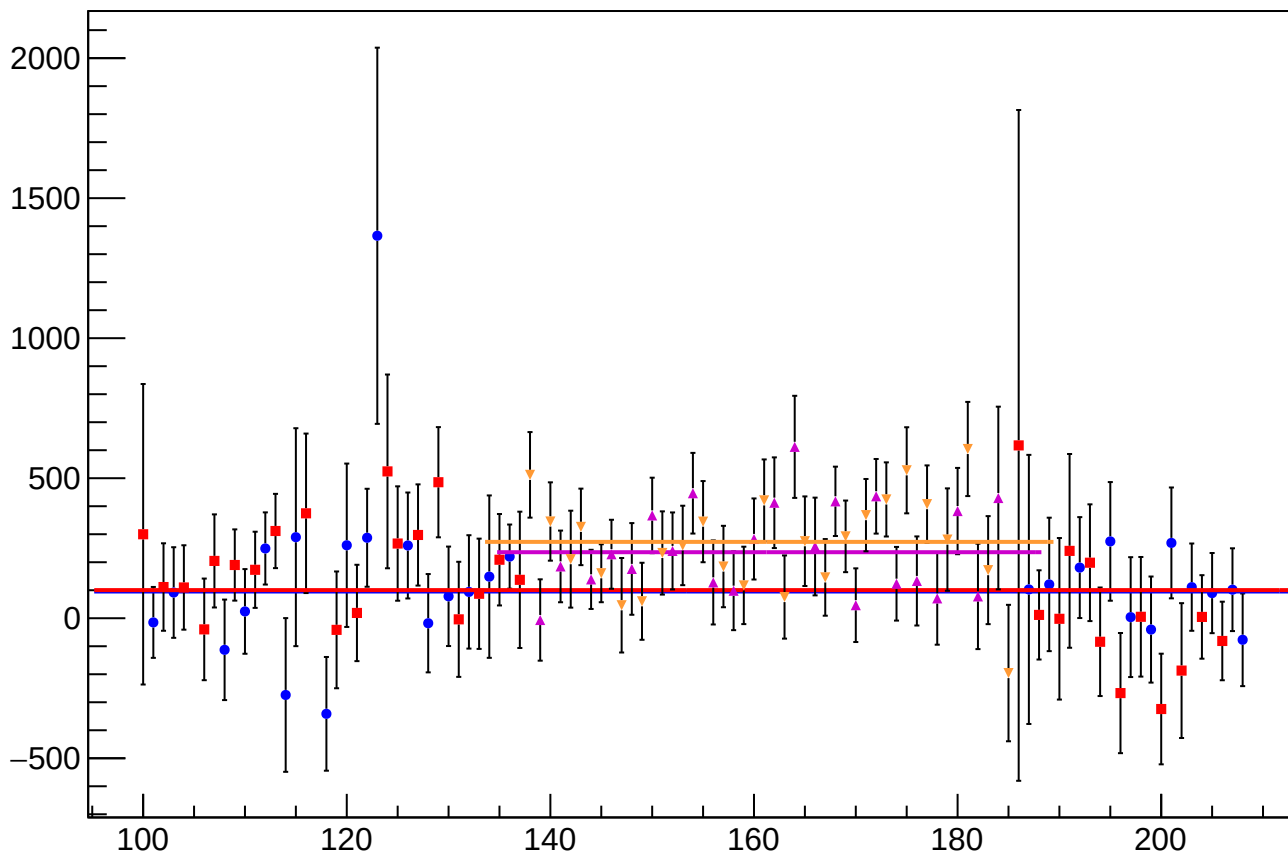
Right: 691.515 $\pm$ 0.095 χ^2 /NDF: 5602677.3/58

In: 289.698 $\pm$ 0.042 χ^2 /NDF:14350200.9/50

Out: 294.849 $\pm$ 0.041 χ^2 /NDF:15629236.4/55

All: 292.290 $\pm$ 0.029 χ^2 /NDF: 29987160.7/10

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 95.495 $\pm$ 34.228 χ^2 /NDF: 21.5/27

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 100.441 $\pm$ 33.670 χ^2 /NDF: 27.2/30

Left In: 235.801 $\pm$ 30.232 χ^2 /NDF:24.6/22

Left: 254.870 $\pm$ 21.011 χ^2 /NDF: 52.8/47

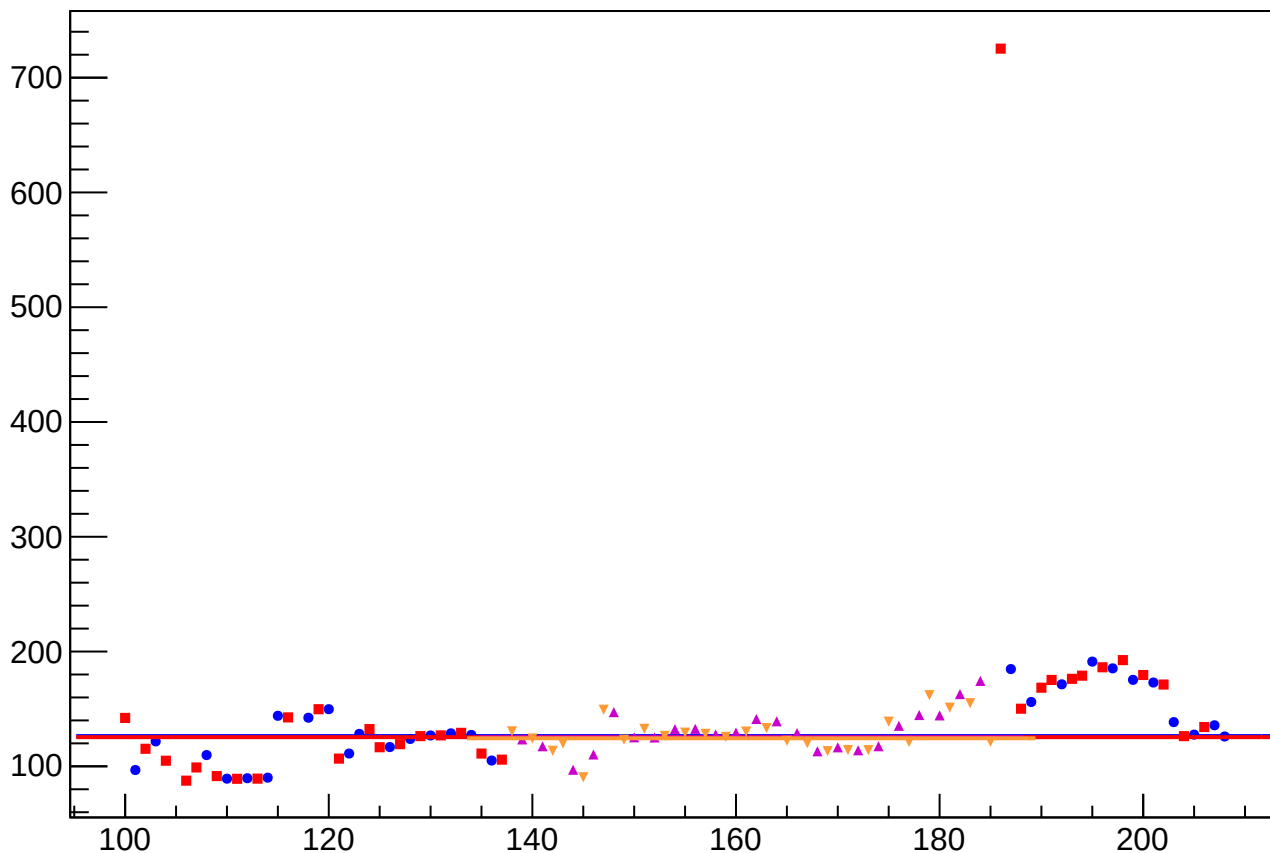
Right: 98.008 $\pm$ 24.003 χ^2 /NDF: 48.6/58

In: 174.314 $\pm$ 22.659 χ^2 /NDF:55.5/50

Out: 198.685 $\pm$ 22.069 χ^2 /NDF:69.5/55

All: 186.821 $\pm$ 15.810 χ^2 /NDF: 125.6/106

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.334 $\pm$ 0.024 χ^2 /NDF: 1355683.2/27

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.402 $\pm$ 0.024 χ^2 /NDF: 2209737.3/30

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

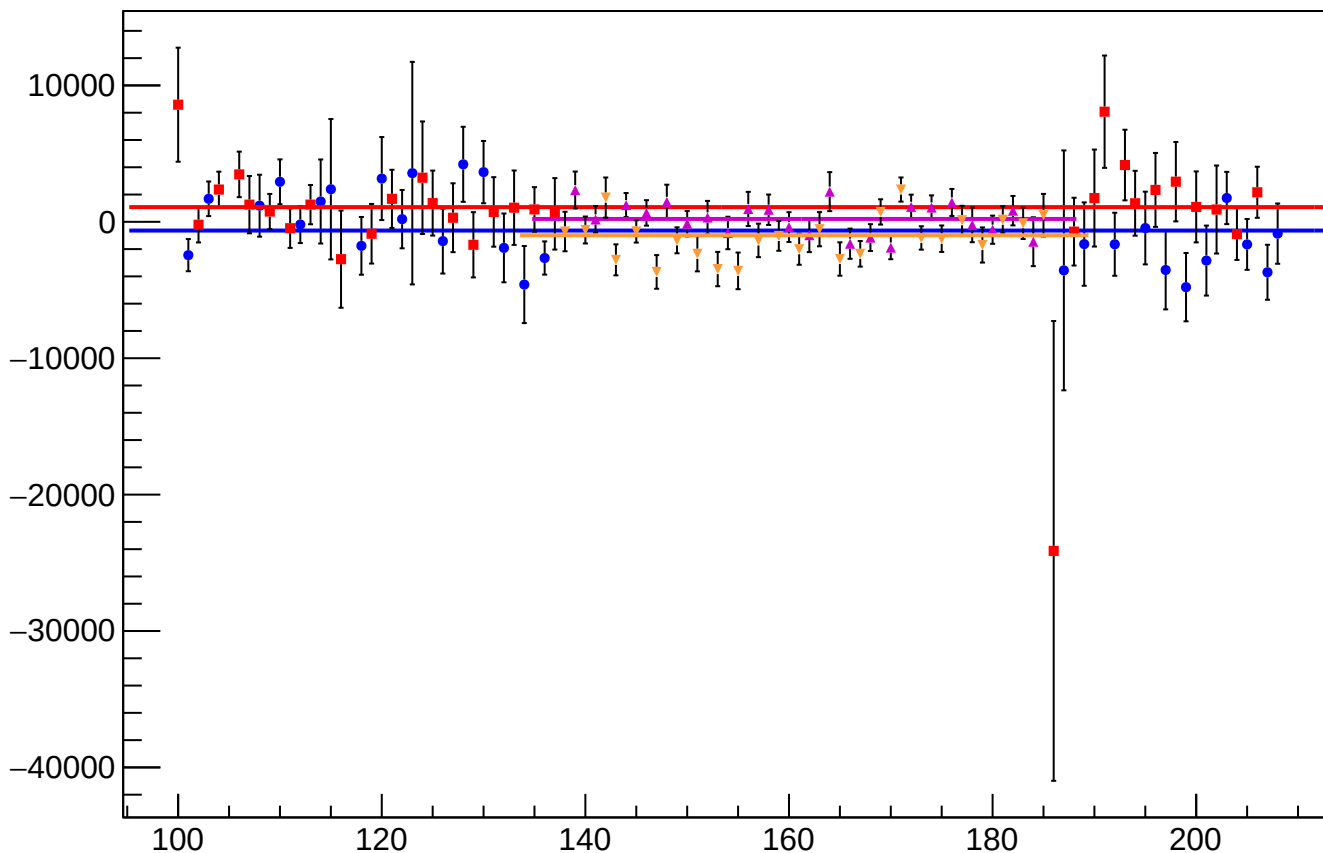
Right: 125.861 $\pm$ 0.017 χ^2 /NDF: 3566175.1/58

In: 125.700 $\pm$ 0.016 χ^2 /NDF: 1858294.6/50

Out: 124.847 $\pm$ 0.016 χ^2 /NDF: 2750422.1/55

All: 125.262 $\pm$ 0.011 χ^2 /NDF: 4610172.0/106

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -639.769 $\pm$ 392.222 χ^2 /NDF: 35.0/27

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF: 47.2/24

Right Out: 1078.961 $\pm$ 379.154 χ^2 /NDF: 21.5/30

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

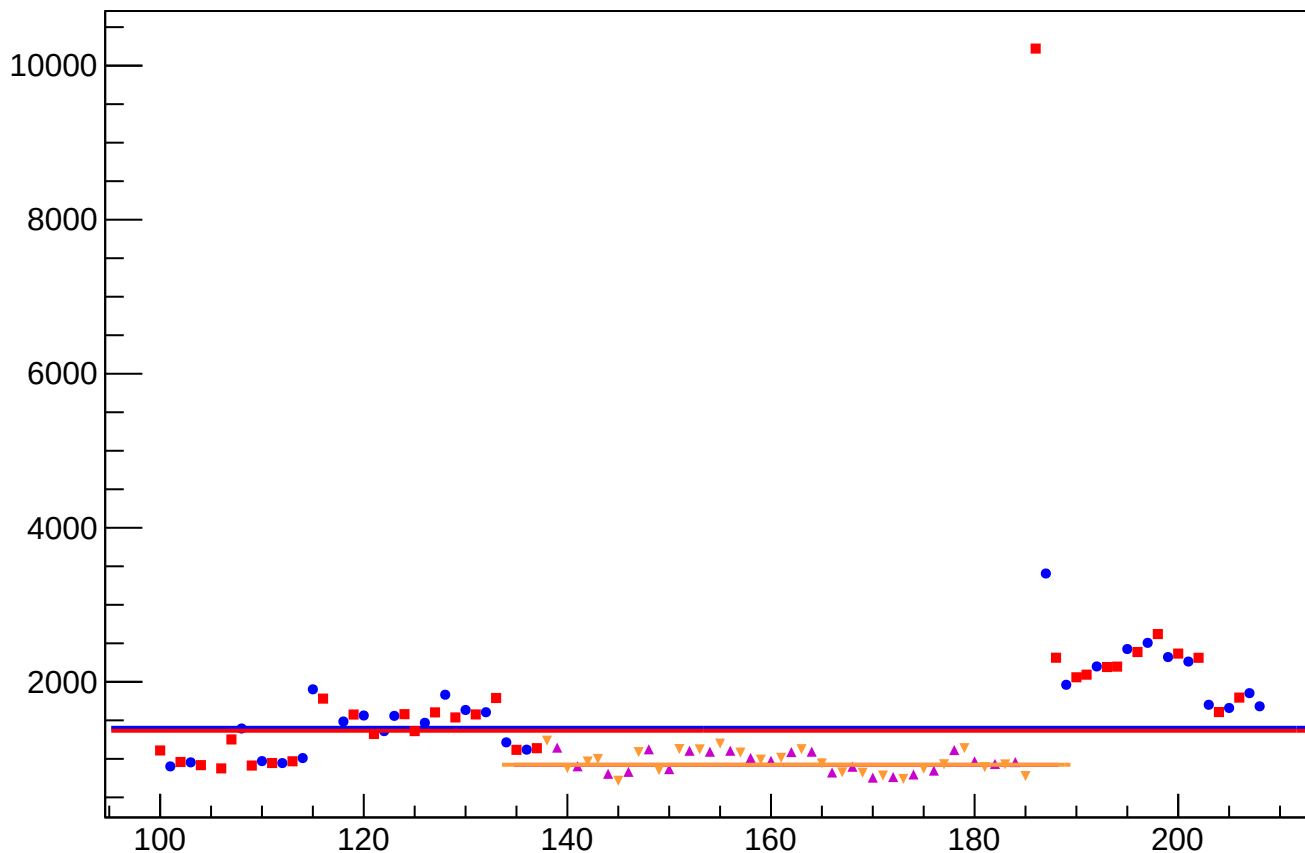
Right: 248.703 $\pm$ 272.605 χ^2 /NDF: 66.4/58

In: 3.067 $\pm$ 194.052 χ^2 /NDF: 64.2/50

Out: -470.510 $\pm$ 189.002 χ^2 /NDF: 90.9/55

All: -239.964 $\pm$ 135.395 χ^2 /NDF: 158.2/106

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1402.970+/-0.277 χ^2/NDF : 2944805.4/27

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1365.124+/-0.268 χ^2/NDF : 4076631.4/30

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

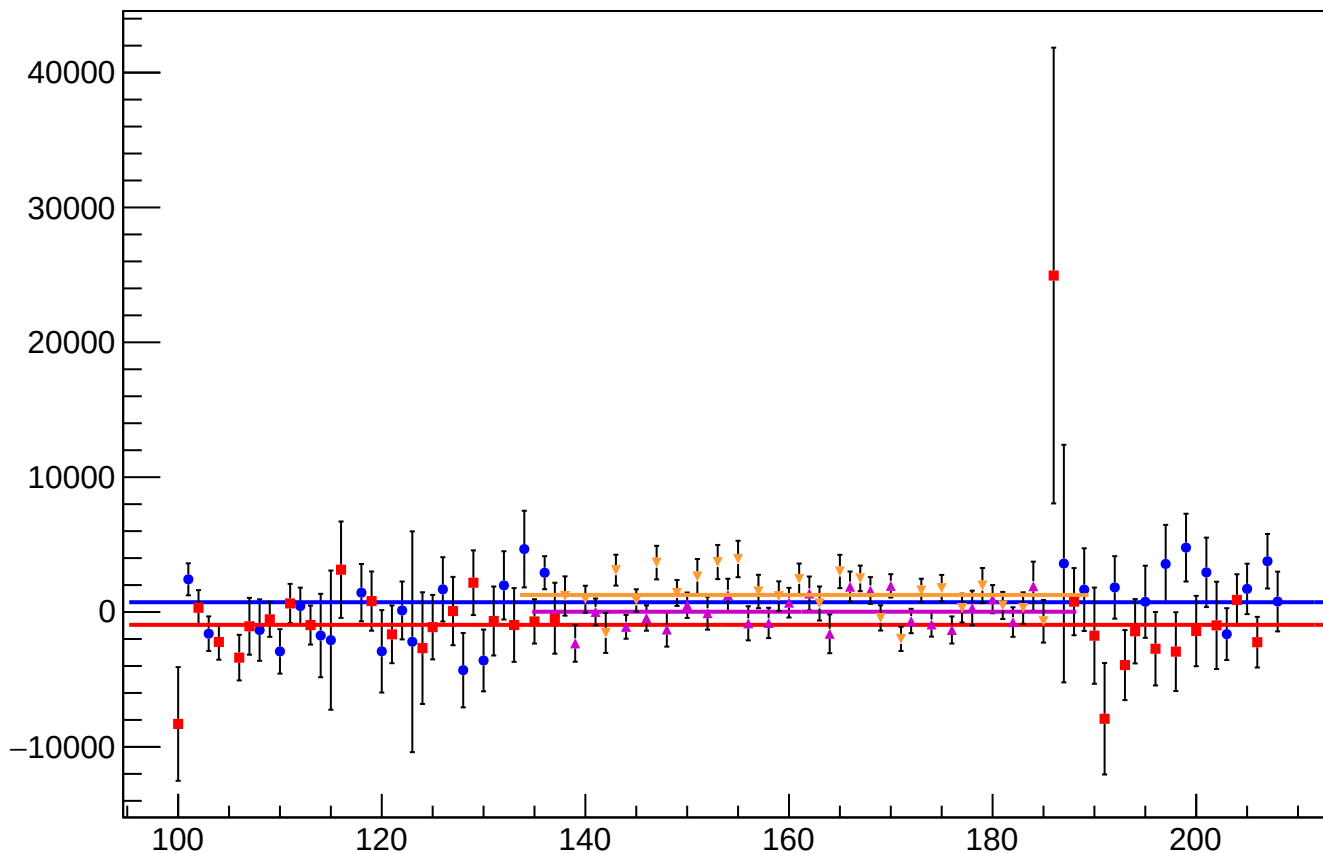
Right: 1383.406+/-0.193 χ^2/NDF : 7031062.7/58

In: 1039.916+/-0.137 χ^2/NDF : 5848515.7/50

Out: 1033.302+/-0.134 χ^2/NDF : 6957701.4/55

All: 1036.522+/-0.096 χ^2/NDF : 12807409.5/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 728.122 ± 393.937 χ^2/NDF : 35.0/27

Left Out: 1267.344 ± 220.133 χ^2/NDF : 44.9/24

Right Out: -949.353 ± 381.006 χ^2/NDF : 21.8/30

Left In: 23.478 ± 225.490 χ^2/NDF : 27.2/22

Left: 660.362 ± 157.518 χ^2/NDF : 87.7/47

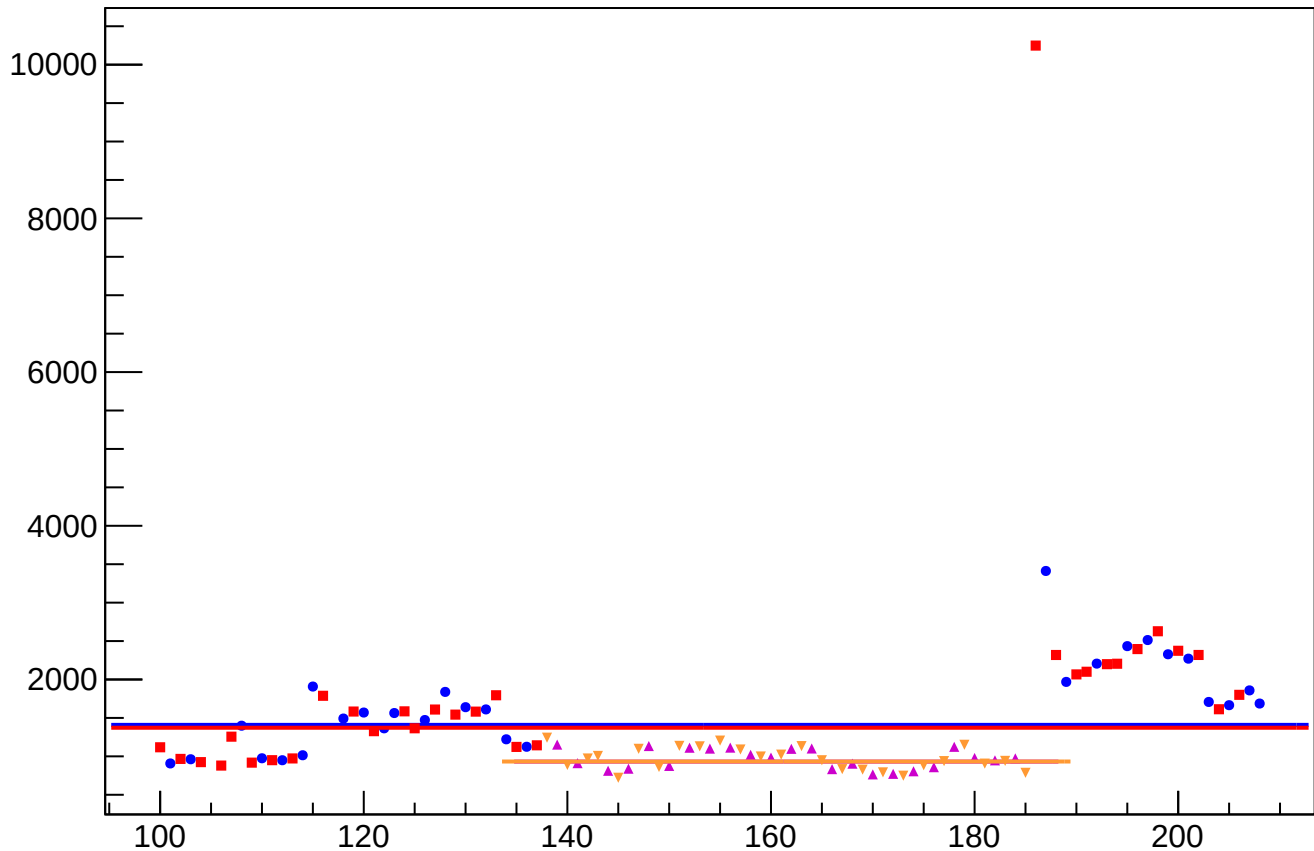
Right: -138.598 ± 273.869 χ^2/NDF : 66.2/58

In: 197.374 ± 195.698 χ^2/NDF : 64.5/50

Out: 712.568 ± 190.606 χ^2/NDF : 92.1/55

All: 461.761 ± 136.544 χ^2/NDF : 160.2/106

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1409.647+/-0.279 χ^2/NDF : 2926510.6/27

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1372.184+/-0.269 χ^2/NDF : 4054383.4/30

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

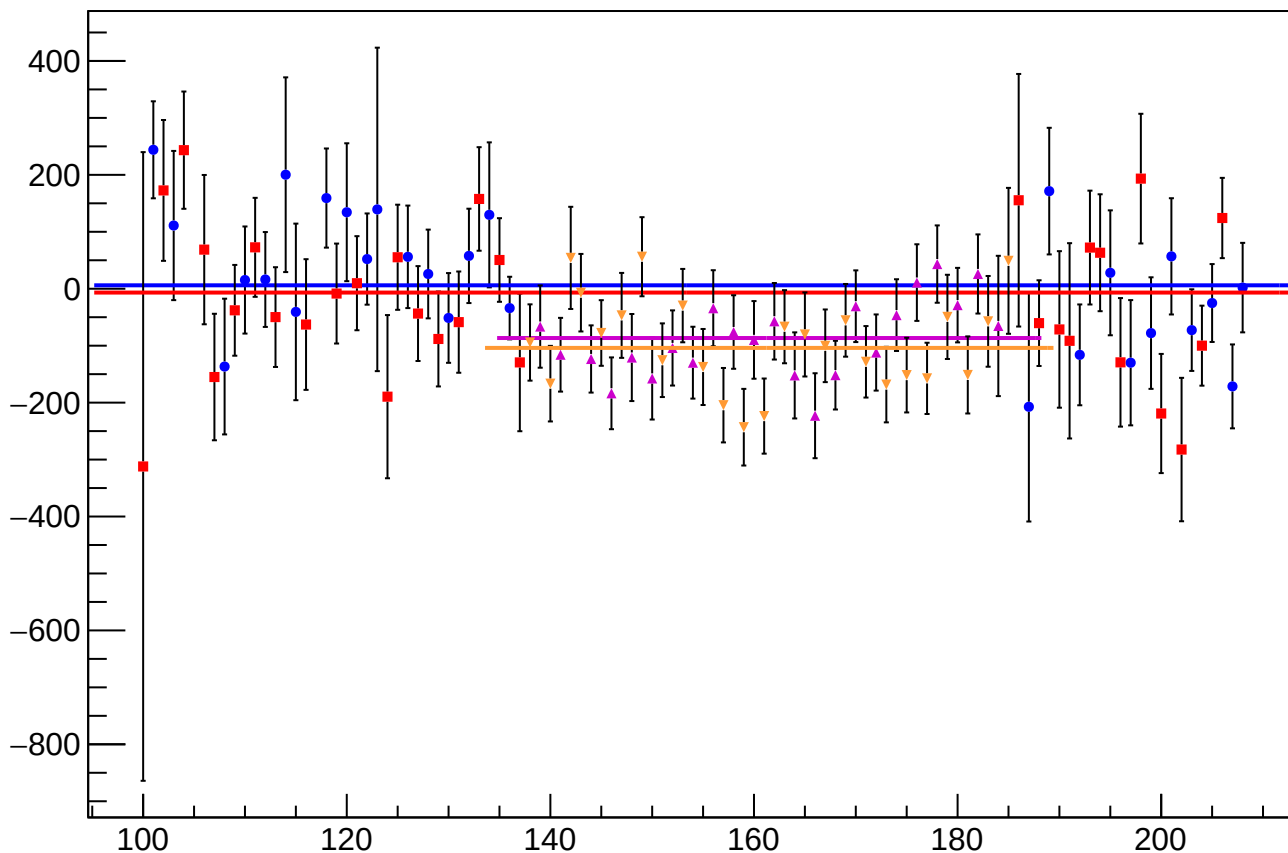
Right: 1390.290+/-0.194 χ^2/NDF : 6990239.4/58

In: 1049.494+/-0.138 χ^2/NDF : 5770320.7/50

Out: 1042.738+/-0.135 χ^2/NDF : 6878660.3/55

All: 1046.027+/-0.097 χ^2/NDF : 12650204.3/112

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 6.023 ± 17.384 χ^2/NDF : 33.8/27

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: -6.719 ± 17.614 χ^2/NDF : 41.4/30

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

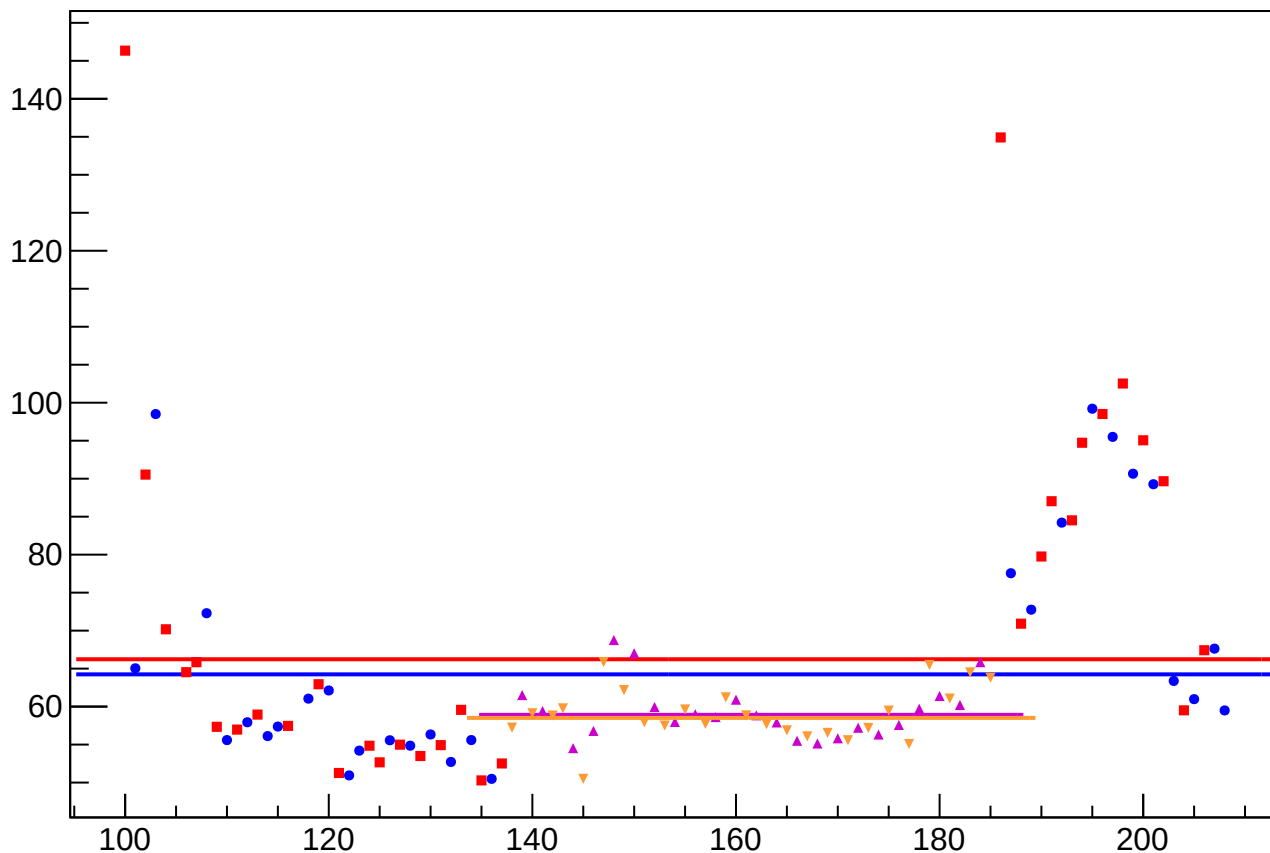
Right: -0.264 ± 12.373 χ^2/NDF : 75.5/58

In: -49.747 ± 10.960 χ^2/NDF : 72.3/50

Out: -67.463 ± 10.786 χ^2/NDF : 90.4/55

All: -58.747 ± 7.687 χ^2/NDF : 164.0/106

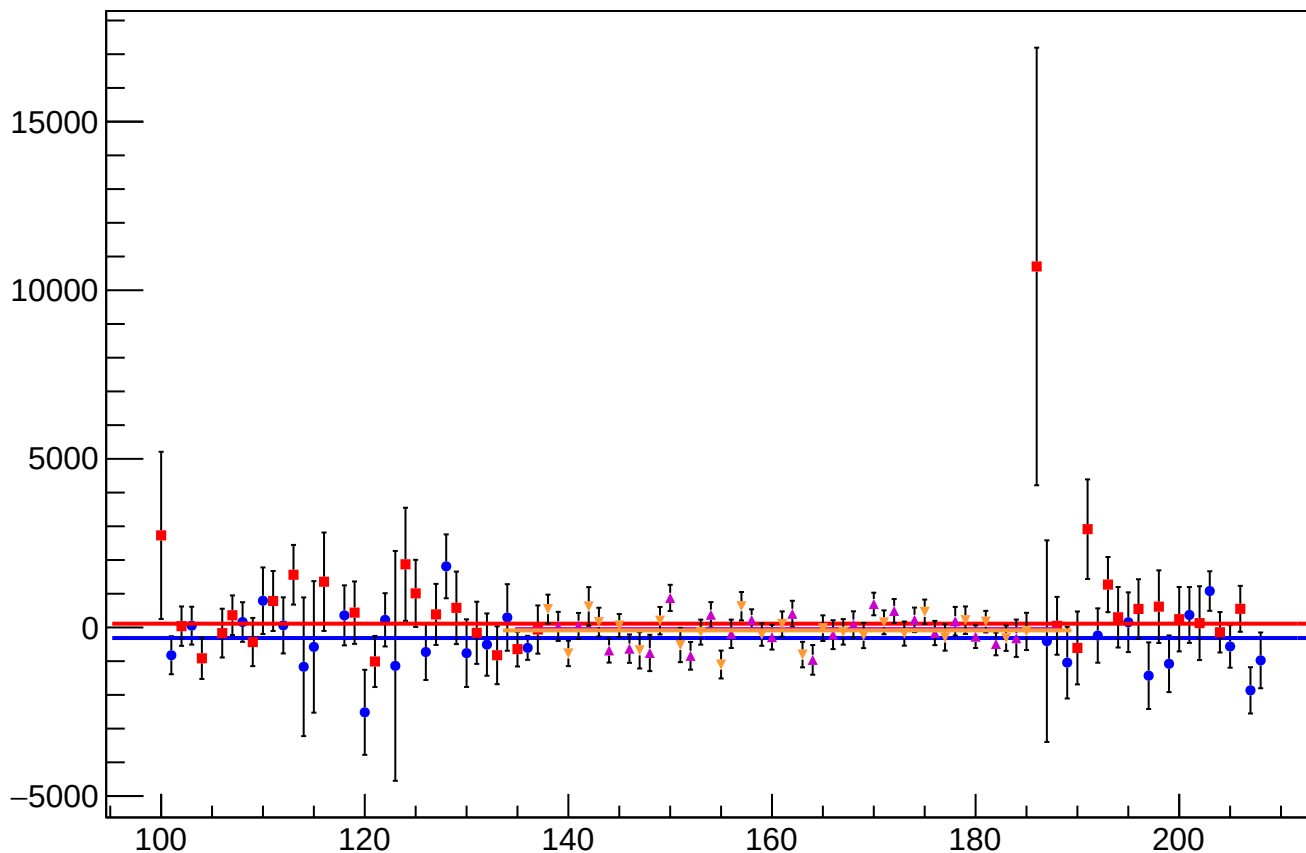
reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.244 $\pm$ 0.012 χ^2 /NDF: 1253799.2/27
 Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24
 Right Out: 66.232 $\pm$ 0.012 χ^2 /NDF: 1642518.6/30
 Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47
 Right: 65.225 $\pm$ 0.009 χ^2 /NDF: 2909218.1/58
 In: 61.032 $\pm$ 0.008 χ^2 /NDF:1477084.0/50
 Out: 61.407 $\pm$ 0.008 χ^2 /NDF:2005806.9/55
 All: 61.223 $\pm$ 0.005 χ^2 /NDF: 3484078.0/106

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -313.627 ± 147.245 χ^2/NDF : 29.4/27

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 112.166 ± 149.751 χ^2/NDF : 26.7/30

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

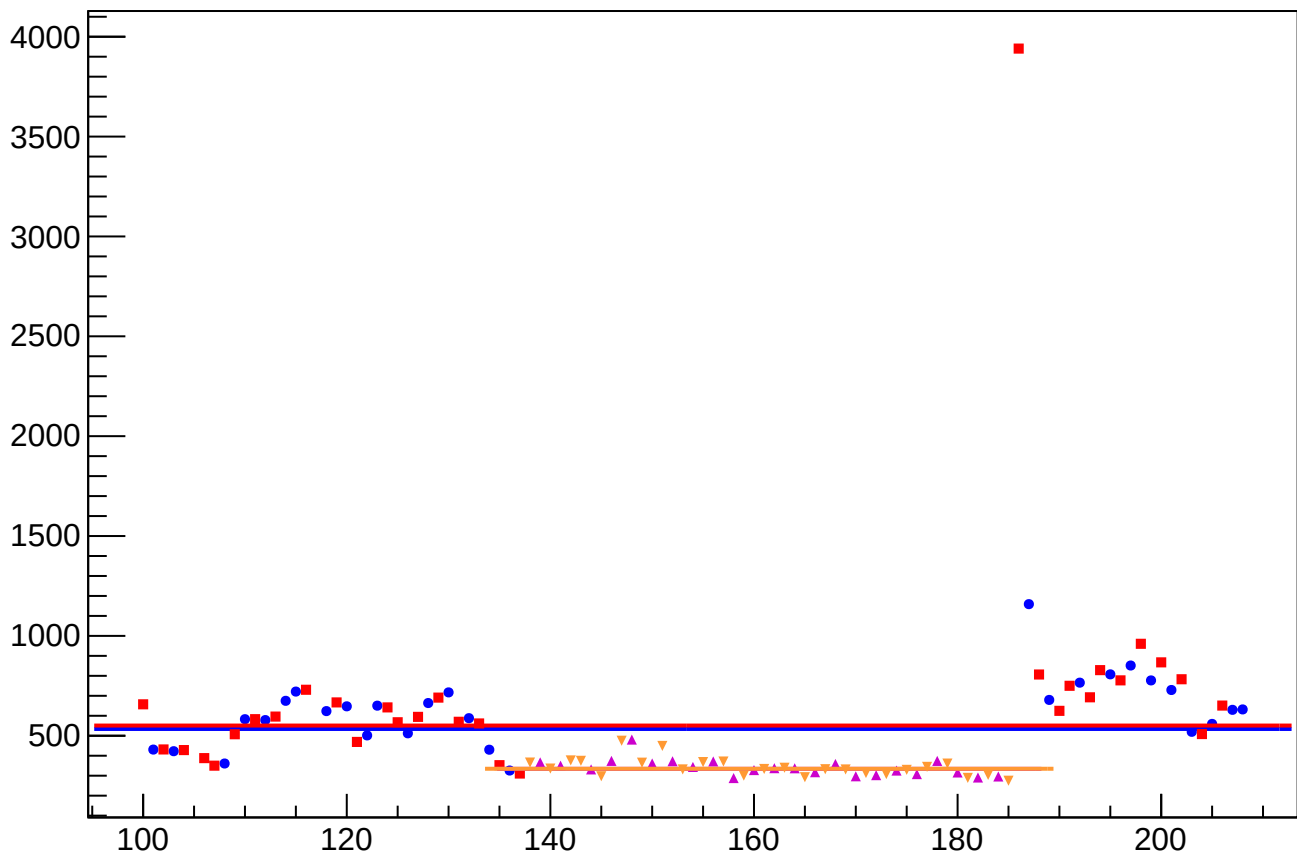
Right: -104.323 ± 104.993 χ^2/NDF : 60.2/58

In: -109.751 ± 70.666 χ^2/NDF : 67.2/50

Out: -44.380 ± 69.566 χ^2/NDF : 55.8/55

All: -76.552 ± 49.575 χ^2/NDF : 123.5/106

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 533.972 $\pm$ 0.104 χ^2 /NDF: 2254313.0/27

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 551.055 $\pm$ 0.106 χ^2 /NDF: 2974166.0/30

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

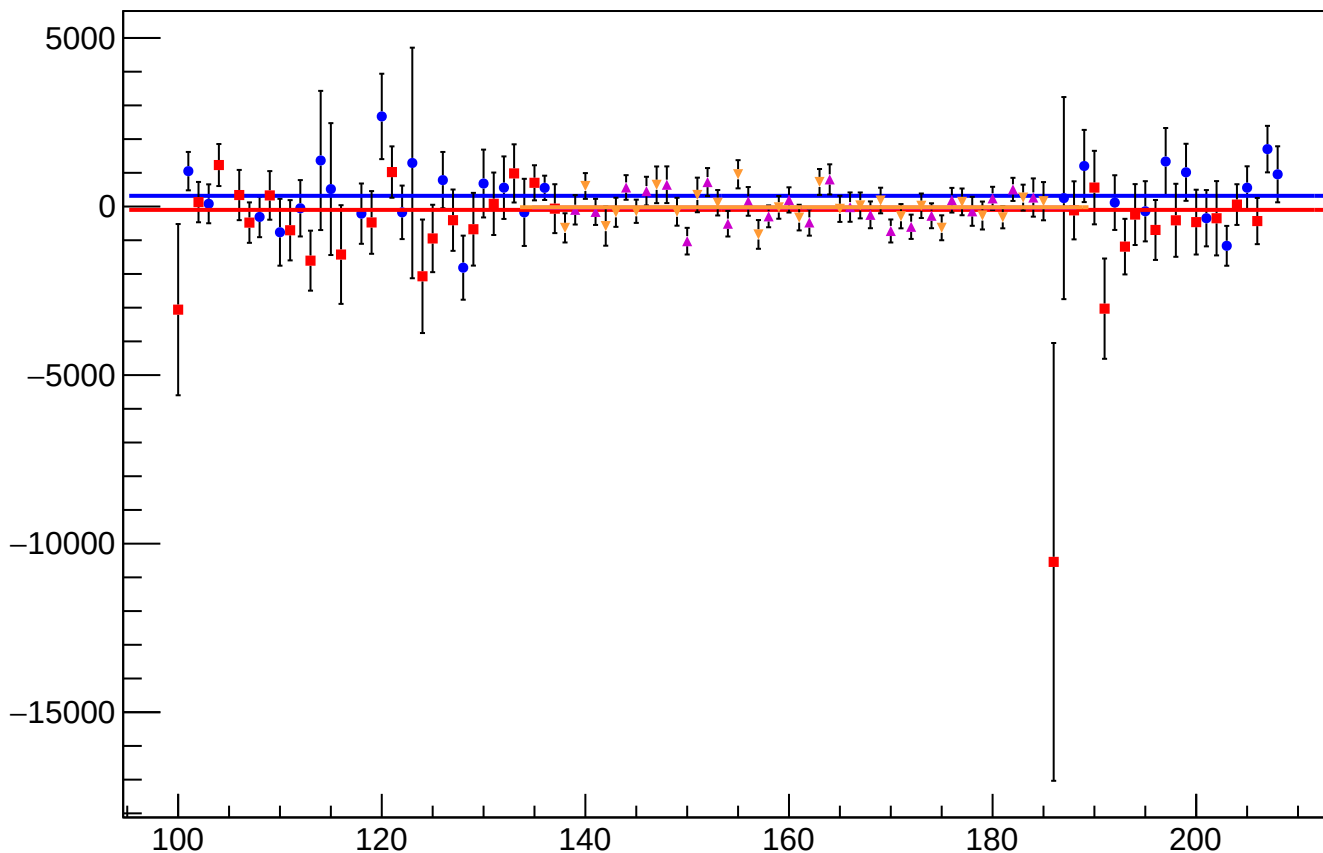
Right: 542.370 $\pm$ 0.074 χ^2 /NDF: 5241712.2/58

In: 380.171 $\pm$ 0.050 χ^2 /NDF: 5486565.7/50

Out: 381.428 $\pm$ 0.049 χ^2 /NDF: 6737872.3/55

All: 380.809 $\pm$ 0.035 χ^2 /NDF: 12224759.3/105

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 317.683 ± 148.710 χ^2/NDF : 29.5/27

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -99.369 ± 151.323 χ^2/NDF : 29.7/30

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

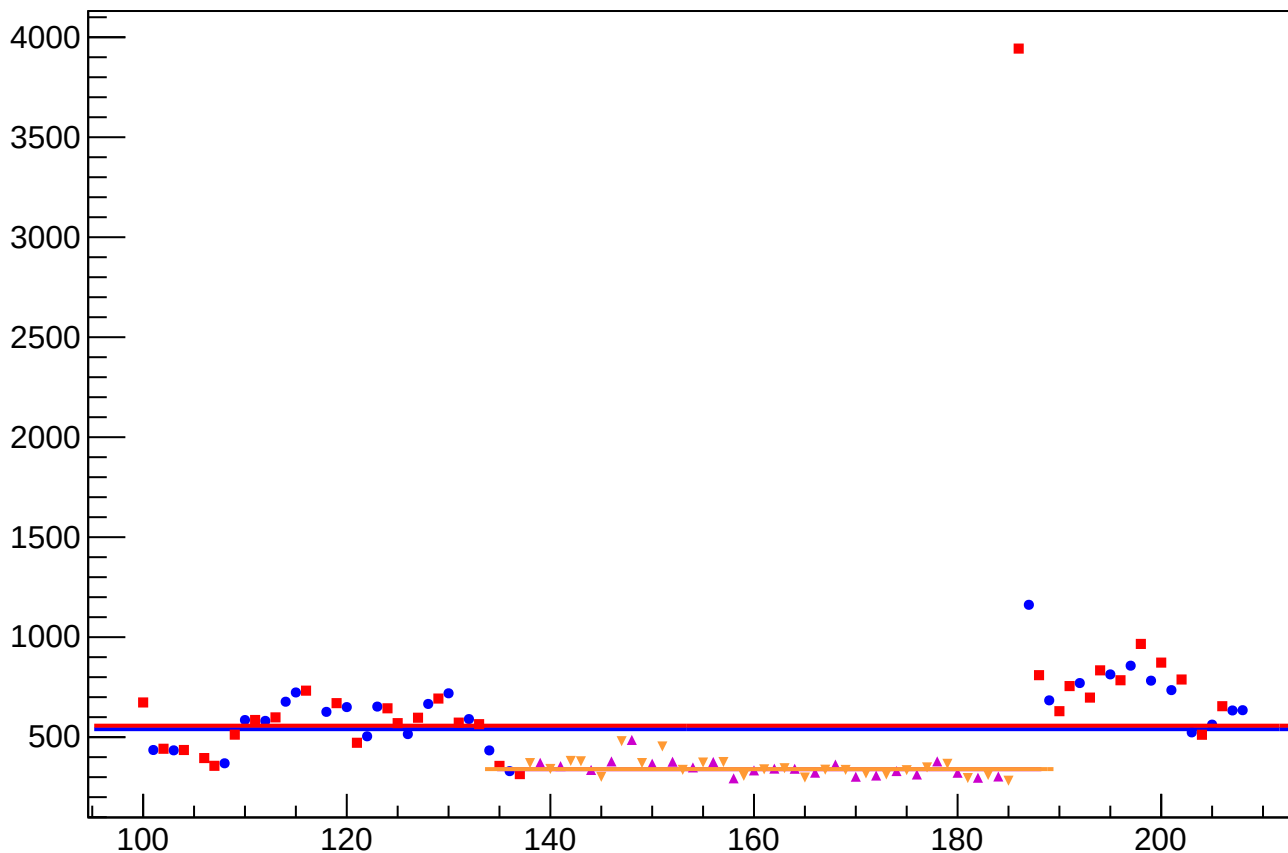
Right: 112.790 ± 106.066 χ^2/NDF : 63.1/58

In: 49.441 ± 71.699 χ^2/NDF : 67.8/50

Out: -37.974 ± 70.595 χ^2/NDF : 57.2/55

All: 5.055 ± 50.304 χ^2/NDF : 125.7/106

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 539.936 $\pm$ 0.105 χ^2 /NDF: 2193969.5/27

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 557.425 $\pm$ 0.107 χ^2 /NDF: 2909916.4/30

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

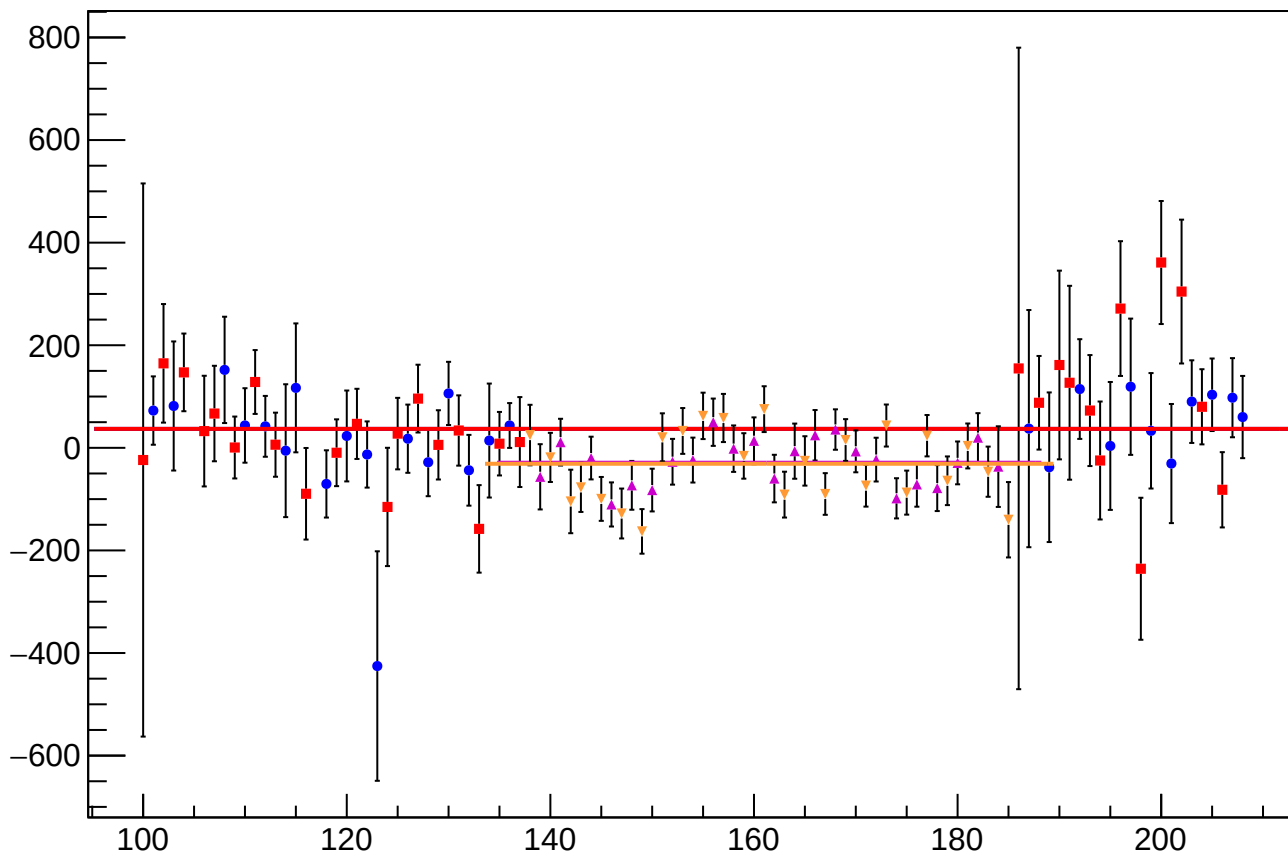
Right: 548.528 $\pm$ 0.075 χ^2 /NDF: 5117474.9/58

In: 386.186 $\pm$ 0.051 χ^2 /NDF: 5359141.7/50

Out: 387.505 $\pm$ 0.050 χ^2 /NDF: 6602038.5/55

All: 386.856 $\pm$ 0.036 χ^2 /NDF: 11961523.8/10

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 36.885 ± 15.331 $\chi^2/\text{NDF}: 17.2/27$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 36.966 ± 15.370 $\chi^2/\text{NDF}: 39.5/30$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

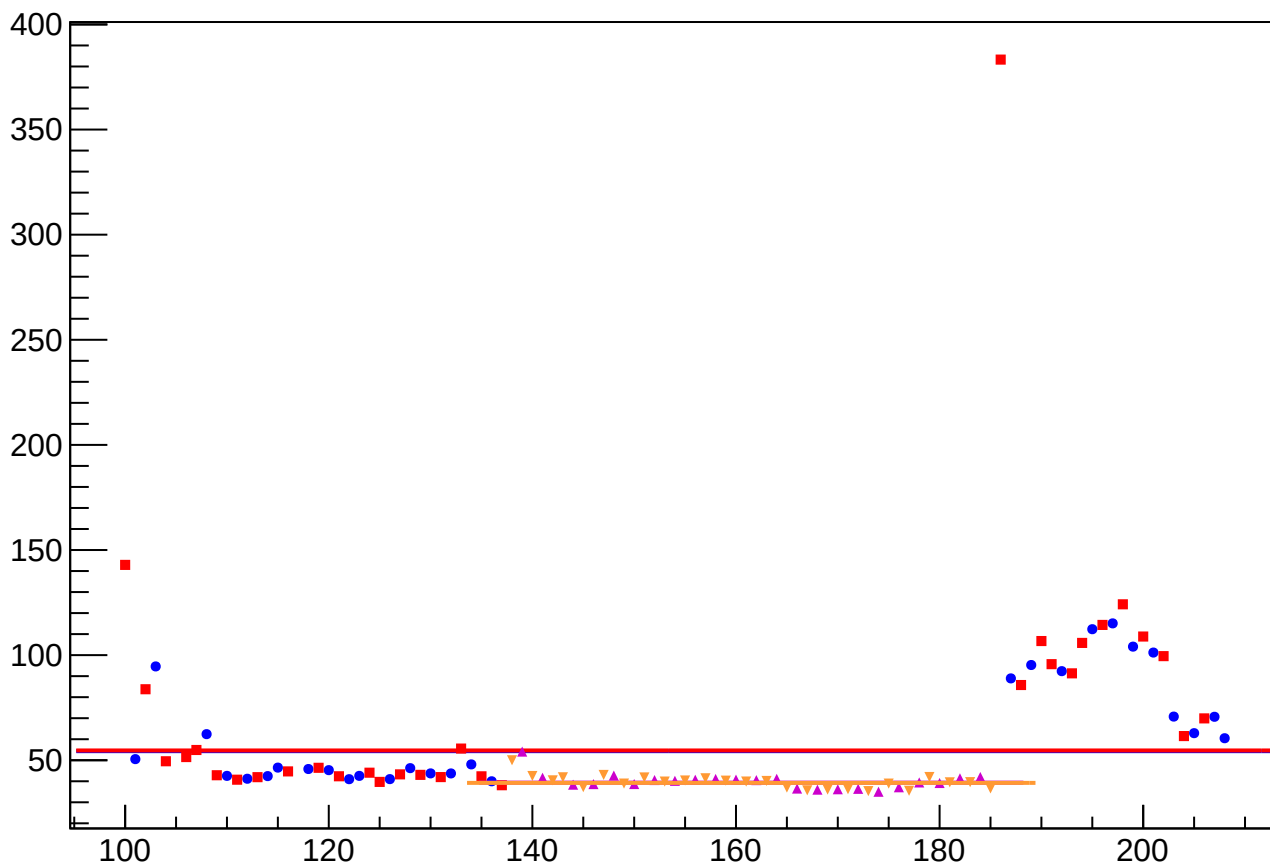
Right: 36.925 ± 10.854 $\chi^2/\text{NDF}: 56.7/58$

In: -10.901 ± 8.044 $\chi^2/\text{NDF}: 53.1/50$

Out: -13.205 ± 7.875 $\chi^2/\text{NDF}: 106.5/55$

All: -12.078 ± 5.627 $\chi^2/\text{NDF}: 159.6/106$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 54.318 $\pm$ 0.011 χ^2 /NDF: 3273573.8/27

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 54.653 $\pm$ 0.011 χ^2 /NDF: 4318430.5/30

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

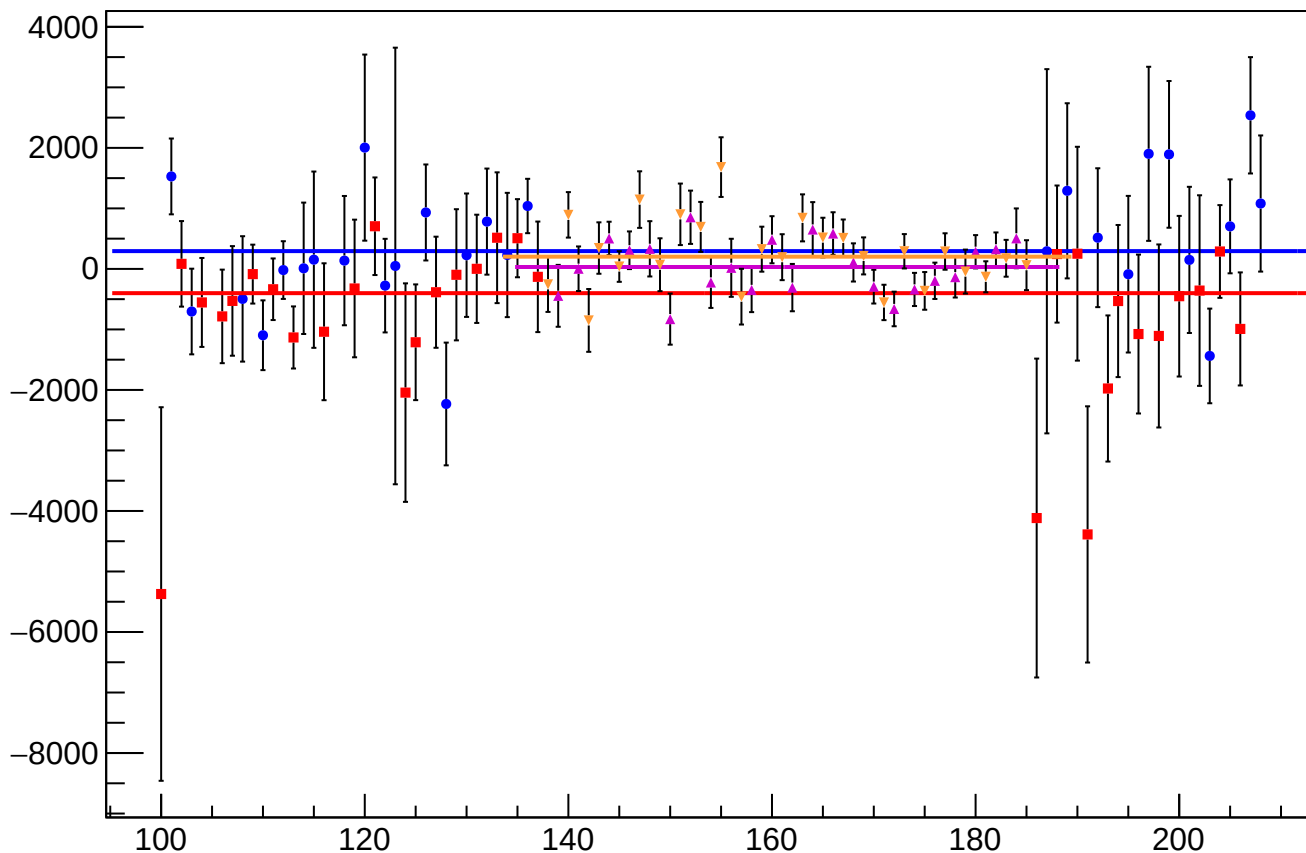
Right: 54.485 $\pm$ 0.008 χ^2 /NDF: 7592481.5/58

In: 43.462 $\pm$ 0.006 χ^2 /NDF: 4872889.5/50

Out: 43.282 $\pm$ 0.006 χ^2 /NDF: 6004667.3/55

All: 43.370 $\pm$ 0.004 χ^2 /NDF: 10878068.0/106

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 294.098 $\pm$ 164.522 χ^2 /NDF: 39.2/27

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -400.628 $\pm$ 160.969 χ^2 /NDF: 22.1/30

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

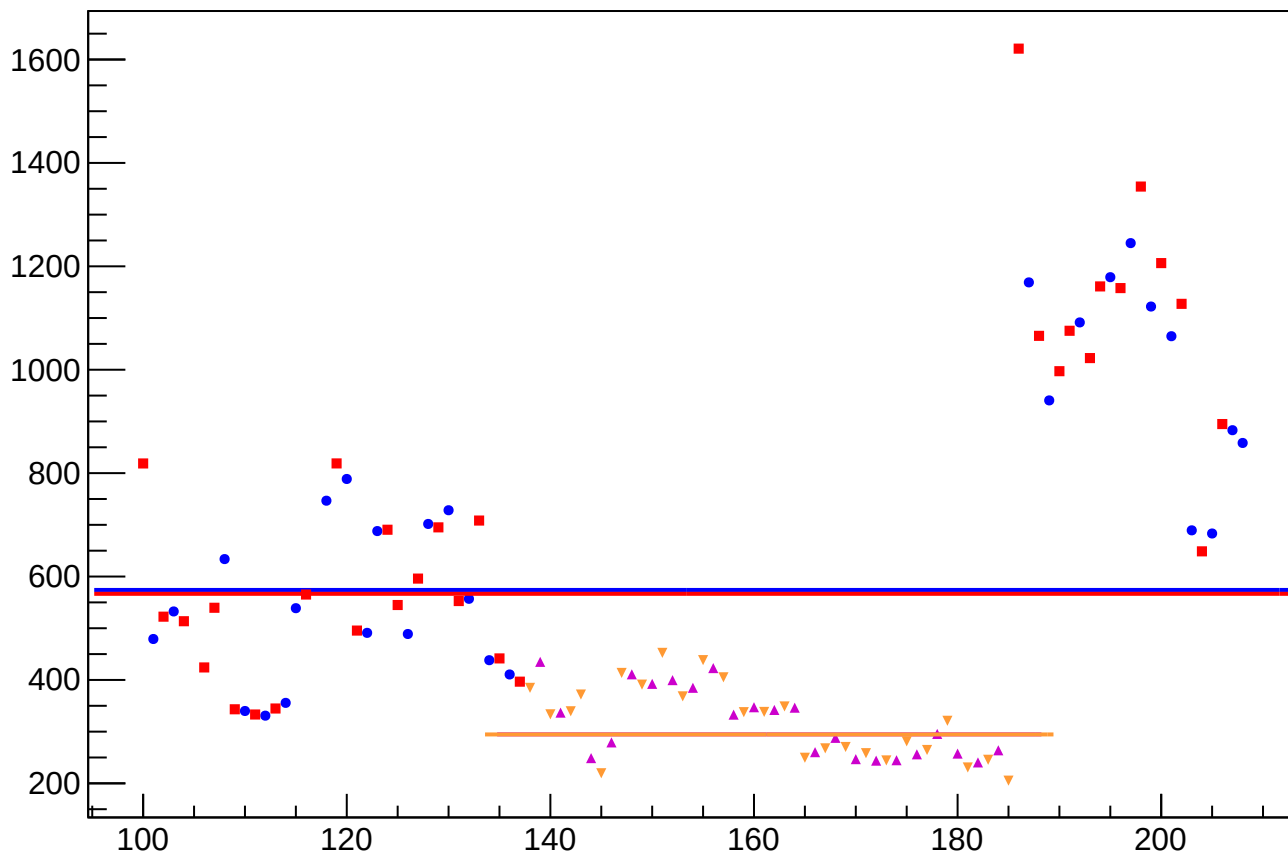
Right: -60.848 $\pm$ 115.058 χ^2 /NDF: 70.4/58

In: 73.848 $\pm$ 66.037 χ^2 /NDF:74.7/50

Out: 105.490 $\pm$ 64.521 χ^2 /NDF:78.7/55

All: 90.036 $\pm$ 46.150 χ^2 /NDF: 153.5/106

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 574.071+/-0.116 χ^2/NDF : 4150980.5/27

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 566.577+/-0.114 χ^2/NDF : 5262791.8/30

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

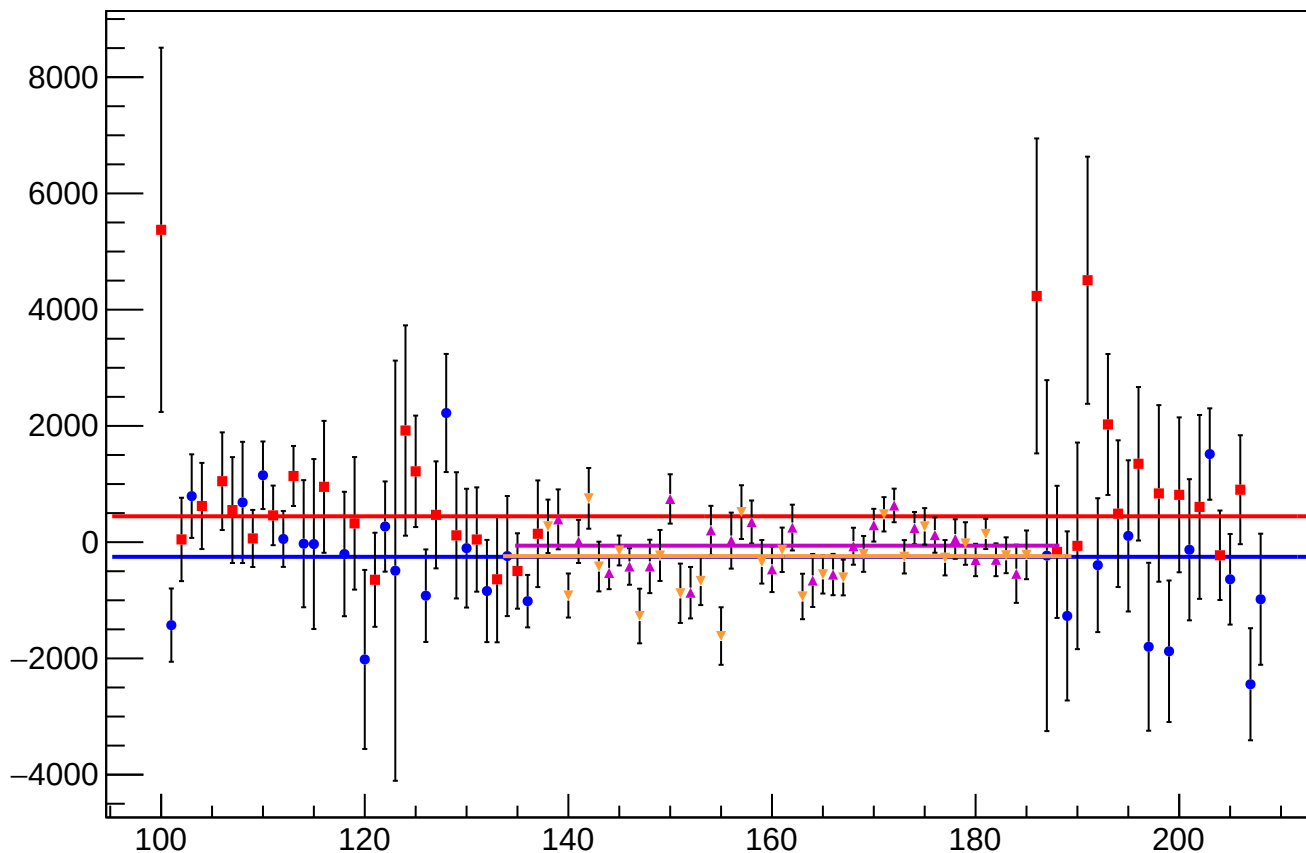
Right: 570.242+/-0.081 χ^2/NDF : 9415892.6/58

In: 339.728+/-0.047 χ^2/NDF : 10285346.5/50

Out: 338.289+/-0.046 χ^2/NDF : 11735887.0/55

All: 338.992+/-0.033 χ^2/NDF : 22021719.2/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -252.100 ± 165.472 χ^2/NDF : 38.8/27

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 445.333 ± 162.474 χ^2/NDF : 21.9/30

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

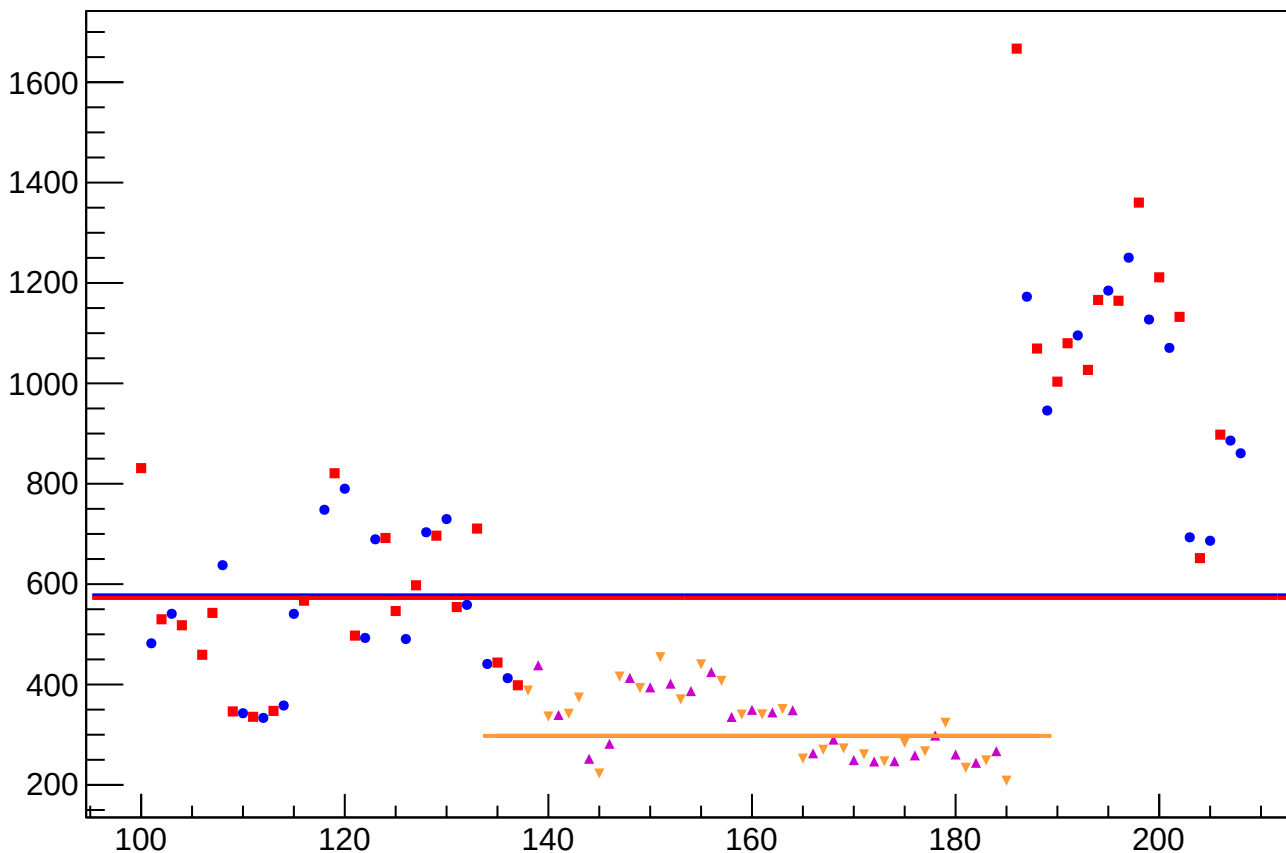
Right: 102.993 ± 115.932 χ^2/NDF : 69.8/58

In: -91.420 ± 66.627 χ^2/NDF : 70.8/50

Out: -130.150 ± 65.137 χ^2/NDF : 79.8/55

All: -111.223 ± 46.577 χ^2/NDF : 150.8/106

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 577.676 $\pm$ 0.117 χ^2 /NDF: 4127994.7/27

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 572.448 $\pm$ 0.115 χ^2 /NDF: 5209067.7/30

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

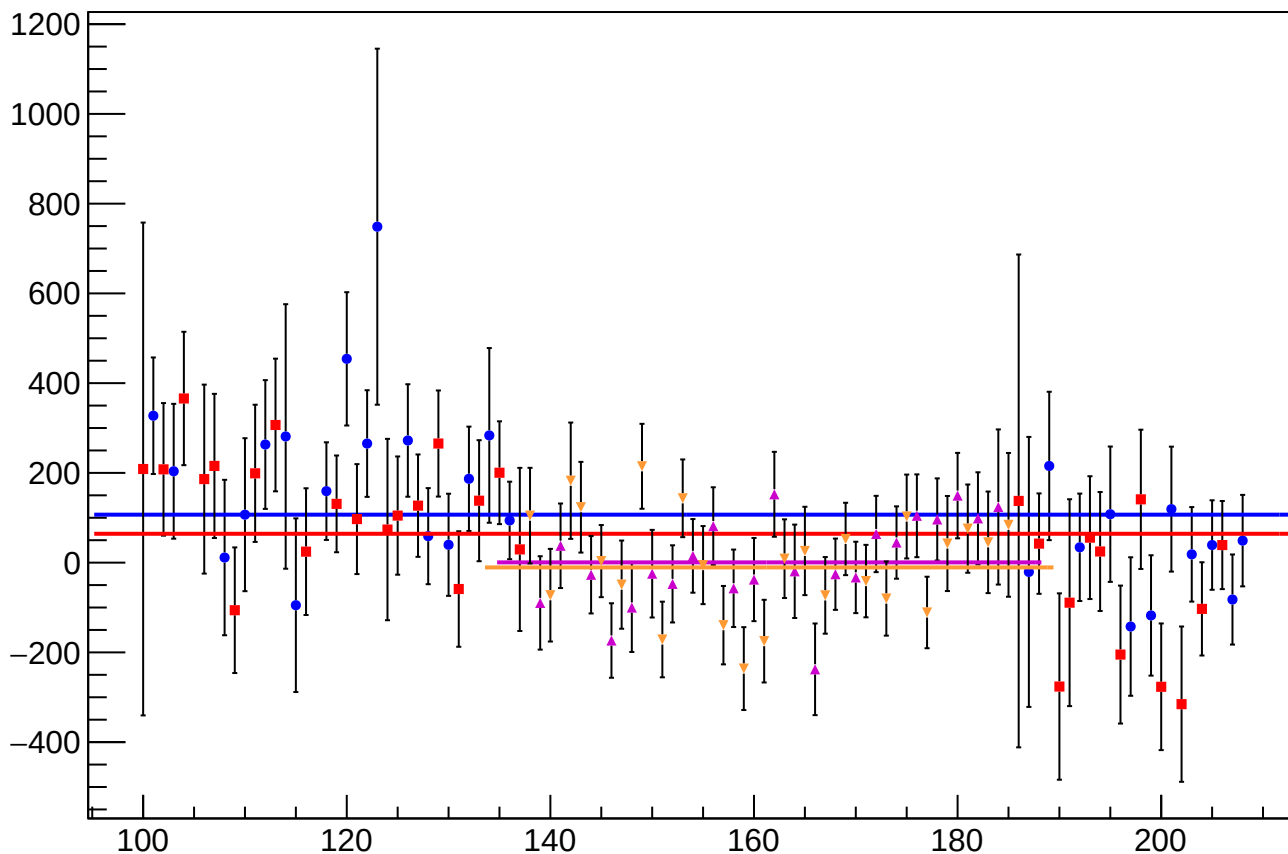
Right: 575.014 $\pm$ 0.082 χ^2 /NDF: 9338079.1/58

In: 343.090 $\pm$ 0.047 χ^2 /NDF:10191676.6/50

Out: 341.785 $\pm$ 0.046 χ^2 /NDF:11649811.7/55

All: 342.423 $\pm$ 0.033 χ^2 /NDF: 21841880.5/10

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 106.899 ± 24.811 χ^2/NDF : 31.4/27

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 64.317 ± 25.403 χ^2/NDF : 37.7/30

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

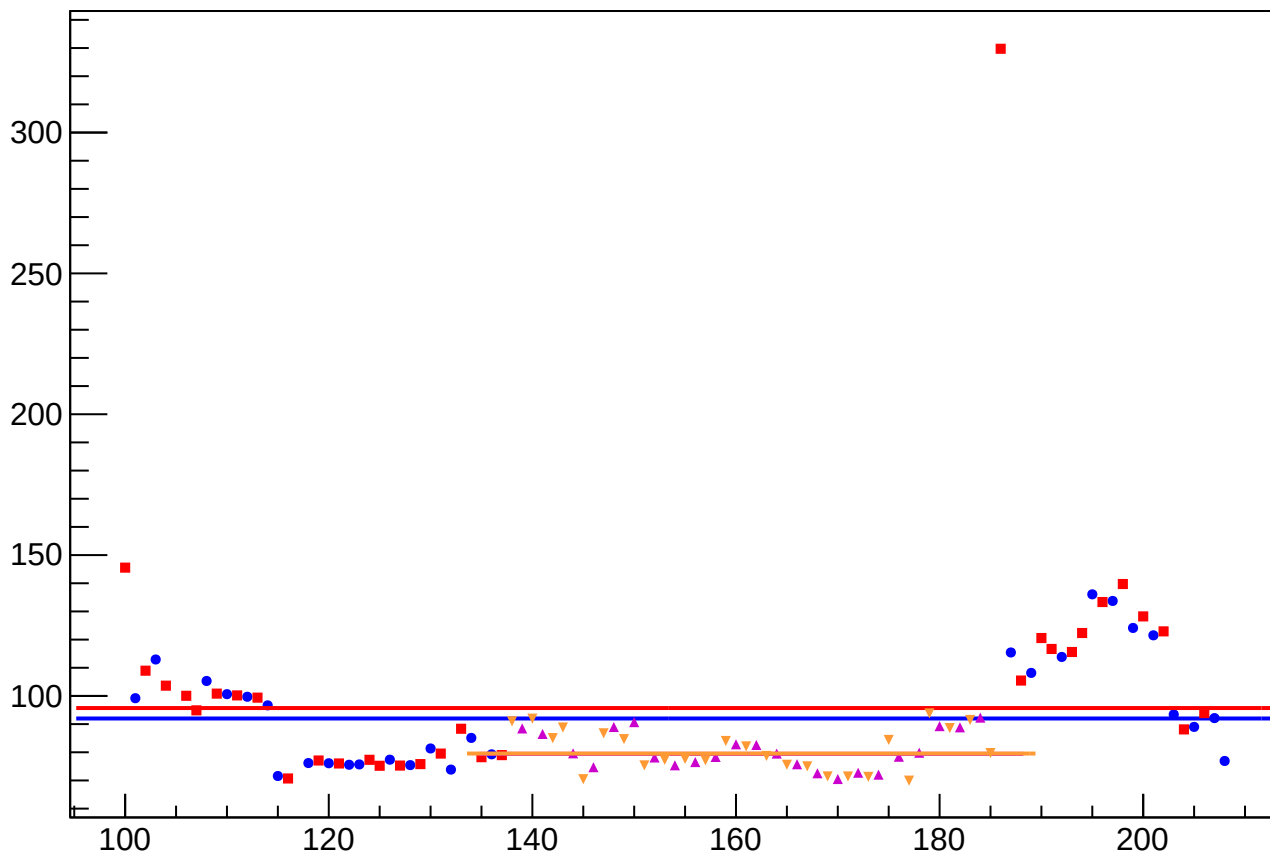
Right: 86.110 ± 17.750 χ^2/NDF : 70.5/58

In: 40.116 ± 15.131 χ^2/NDF : 66.7/50

Out: 15.521 ± 15.012 χ^2/NDF : 79.7/55

All: 27.722 ± 10.657 χ^2/NDF : 147.7/106

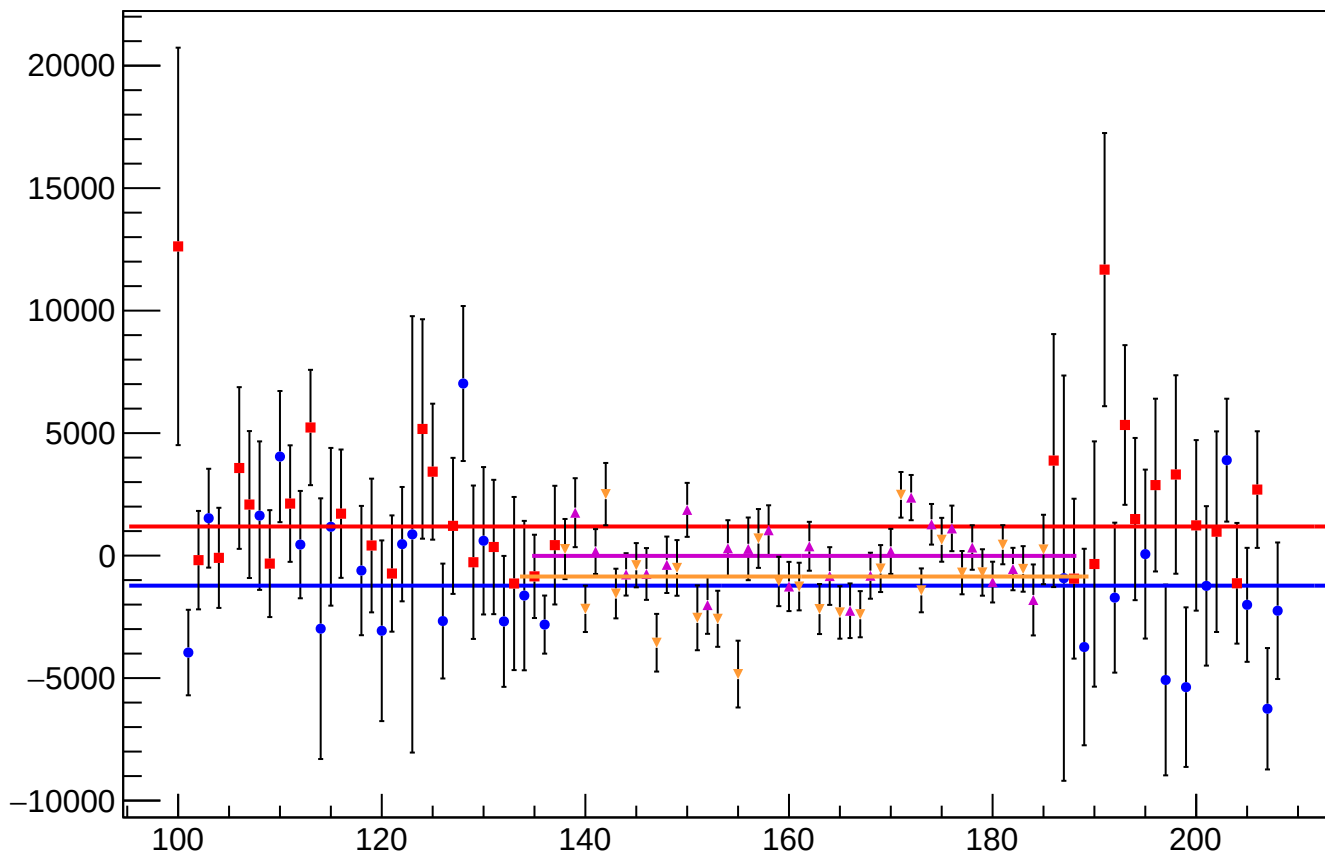
reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 91.996 ± 0.018 $\chi^2/\text{NDF}: 1050128.8/27$
 Left Out: 79.551 ± 0.013 $\chi^2/\text{NDF}: 309075.2/24$
 Right Out: 95.702 ± 0.018 $\chi^2/\text{NDF}: 1499951.8/30$
 Left In: 79.436 ± 0.013 $\chi^2/\text{NDF}: 212440.1/22$

Left: 79.495 ± 0.009 $\chi^2/\text{NDF}: 521552.2/47$
 Right: 93.805 ± 0.013 $\chi^2/\text{NDF}: 2571876.0/58$
 In: 84.107 ± 0.011 $\chi^2/\text{NDF}: 1584444.2/50$
 Out: 85.192 ± 0.011 $\chi^2/\text{NDF}: 2335173.0/55$
 All: 84.654 ± 0.008 $\chi^2/\text{NDF}: 3924798.0/106$

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1226.774 $\pm$ 494.802 χ^2 /NDF: 32.6/27

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1188.281 $\pm$ 507.378 χ^2 /NDF: 19.3/30

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

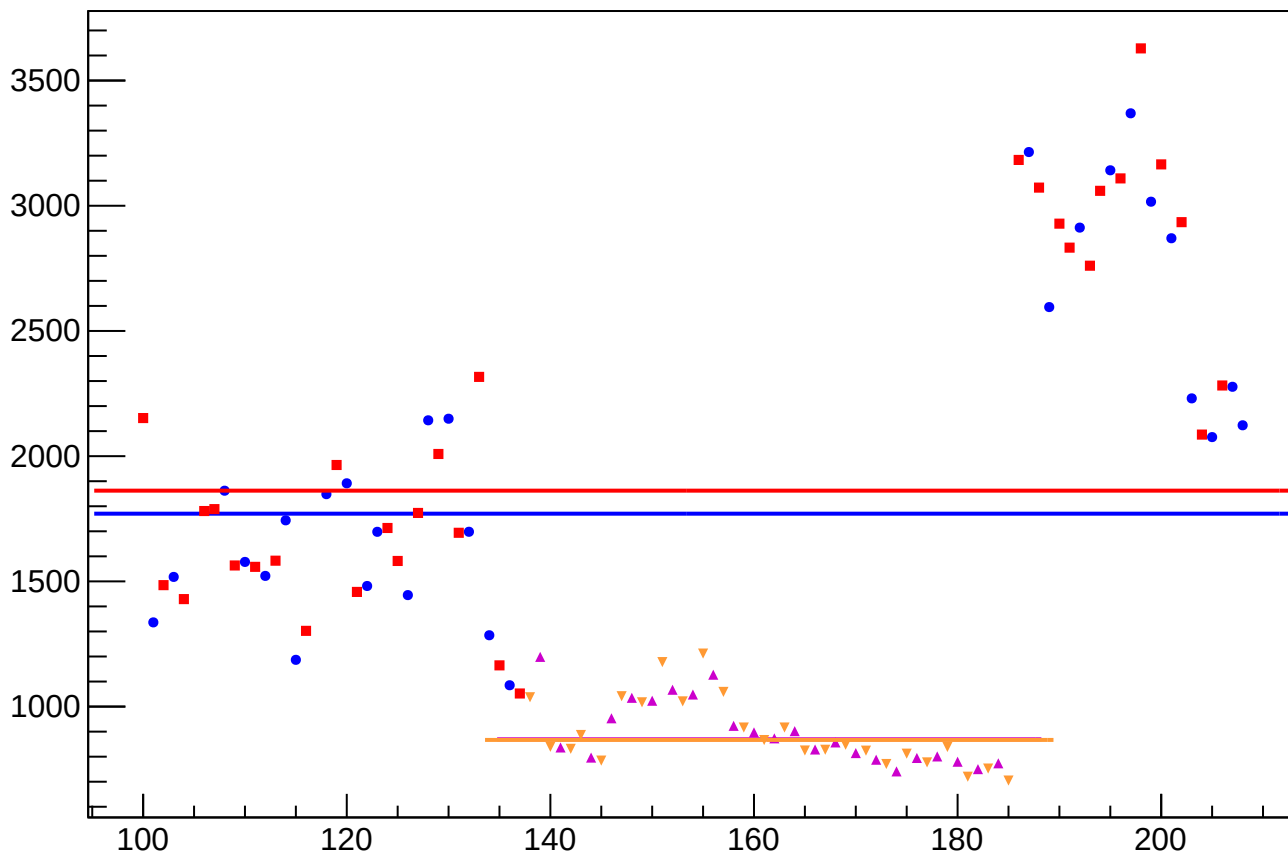
Right: -49.547 $\pm$ 354.240 χ^2 /NDF: 63.5/58

In: -197.259 $\pm$ 193.367 χ^2 /NDF:68.9/50

Out: -569.689 $\pm$ 189.346 χ^2 /NDF:89.2/55

All: -387.386 $\pm$ 135.287 χ^2 /NDF: 160.0/106

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1770.349 $\pm$ 0.350 χ^2 /NDF: 2927732.1/27

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1862.318 $\pm$ 0.359 χ^2 /NDF: 3142826.5/30

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

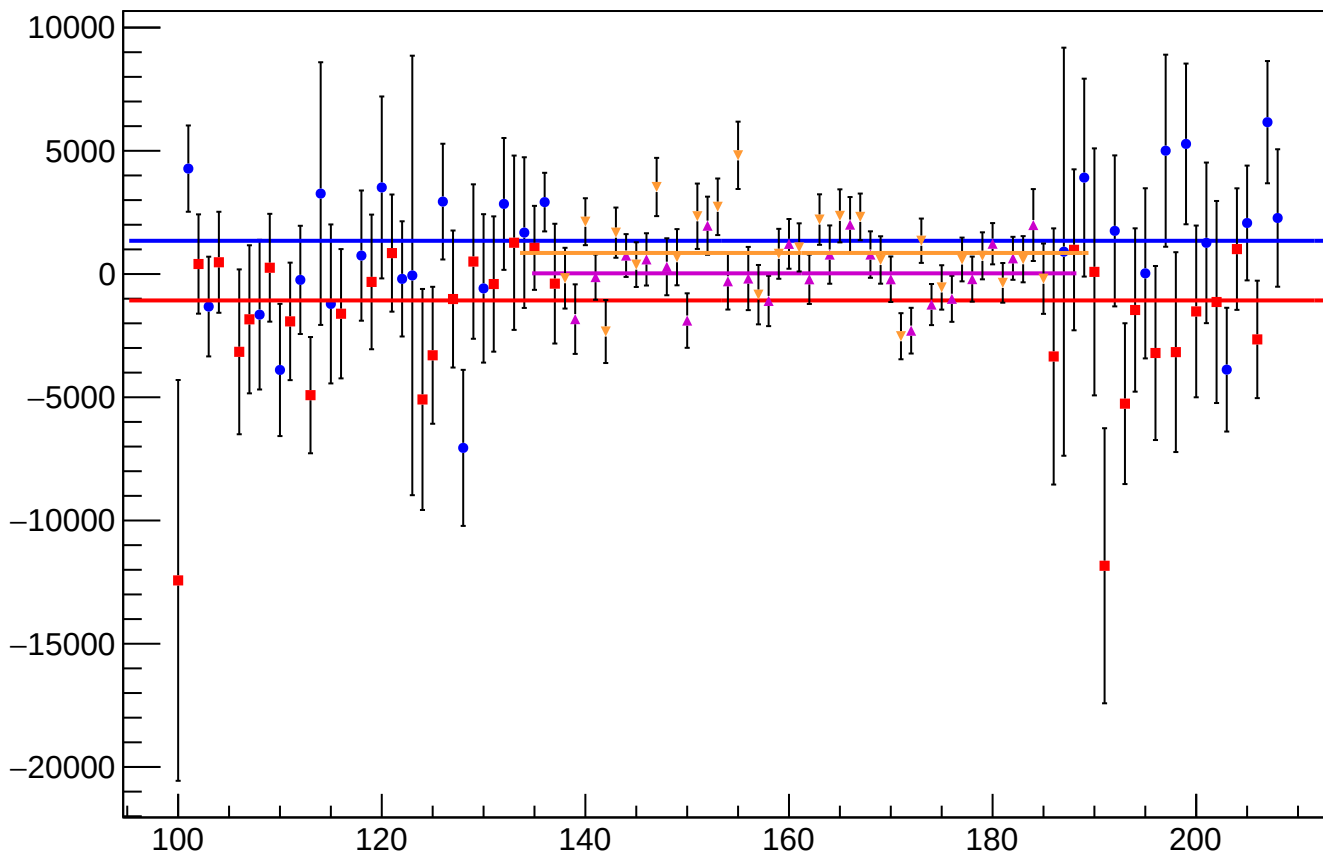
Right: 1815.180 $\pm$ 0.250 χ^2 /NDF: 6104239.1/58

In: 1007.138 $\pm$ 0.137 χ^2 /NDF: 9126081.0/50

Out: 1005.523 $\pm$ 0.134 χ^2 /NDF: 10430545.8/55

All: 1006.314 $\pm$ 0.096 χ^2 /NDF: 19556698.0/105

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1348.782 ± 495.661 $\chi^2/\text{NDF}: 32.7/27$

Left Out: 855.664 ± 205.047 $\chi^2/\text{NDF}: 54.1/24$

Right Out: -1071.136 ± 508.362 $\chi^2/\text{NDF}: 19.1/30$

Left In: 28.553 ± 211.034 $\chi^2/\text{NDF}: 29.7/22$

Left: 454.007 ± 147.061 $\chi^2/\text{NDF}: 91.7/47$

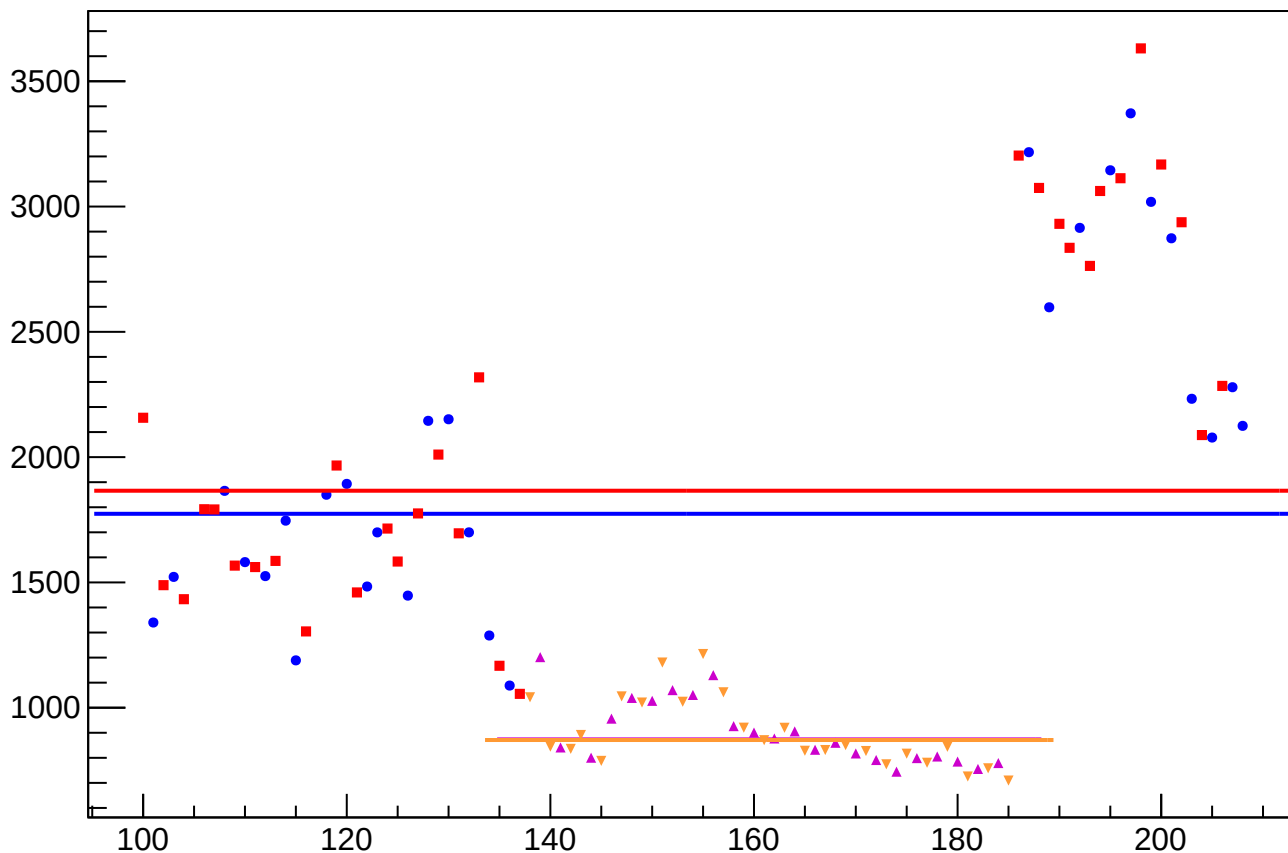
Right: 169.430 ± 354.890 $\chi^2/\text{NDF}: 63.4/58$

In: 231.150 ± 194.168 $\chi^2/\text{NDF}: 68.4/50$

Out: 586.056 ± 190.161 $\chi^2/\text{NDF}: 85.5/55$

All: 412.303 ± 135.858 $\chi^2/\text{NDF}: 155.6/106$

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1773.850 $\pm$ 0.350 χ^2/NDF : 2916018.6/27

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1865.943 $\pm$ 0.359 χ^2/NDF : 3134777.8/30

Left In: 873.675 $\pm$ 0.149 χ^2/NDF : 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2/NDF : 1225725.6/47

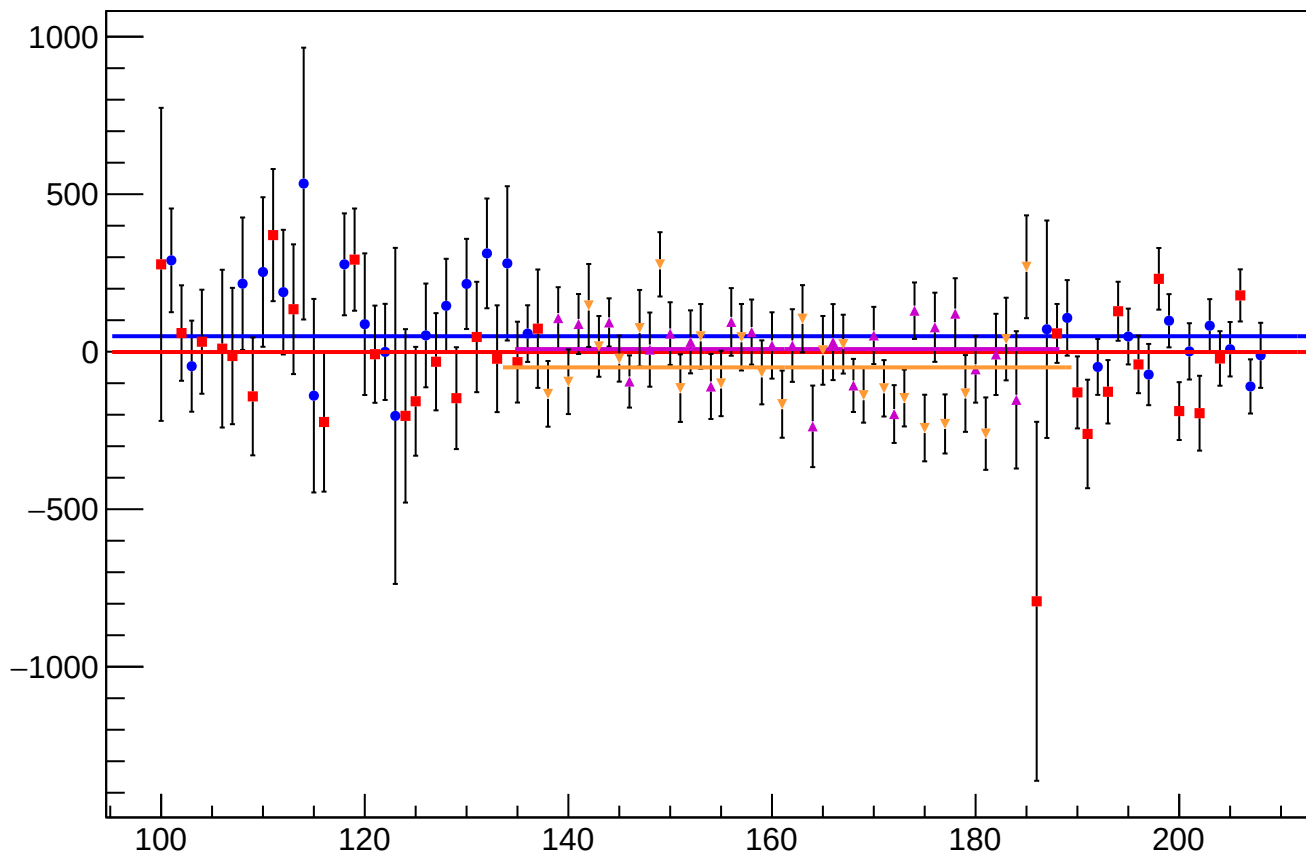
Right: 1818.732 $\pm$ 0.251 χ^2/NDF : 6084444.7/58

In: 1011.813 $\pm$ 0.137 χ^2/NDF : 9074084.7/50

Out: 1010.312 $\pm$ 0.134 χ^2/NDF : 10374053.0/55

All: 1011.046 $\pm$ 0.096 χ^2/NDF : 19448198.7/110

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 49.180 ± 23.688 $\chi^2/\text{NDF}: 21.2/27$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: -1.006 ± 24.151 $\chi^2/\text{NDF}: 38.2/30$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

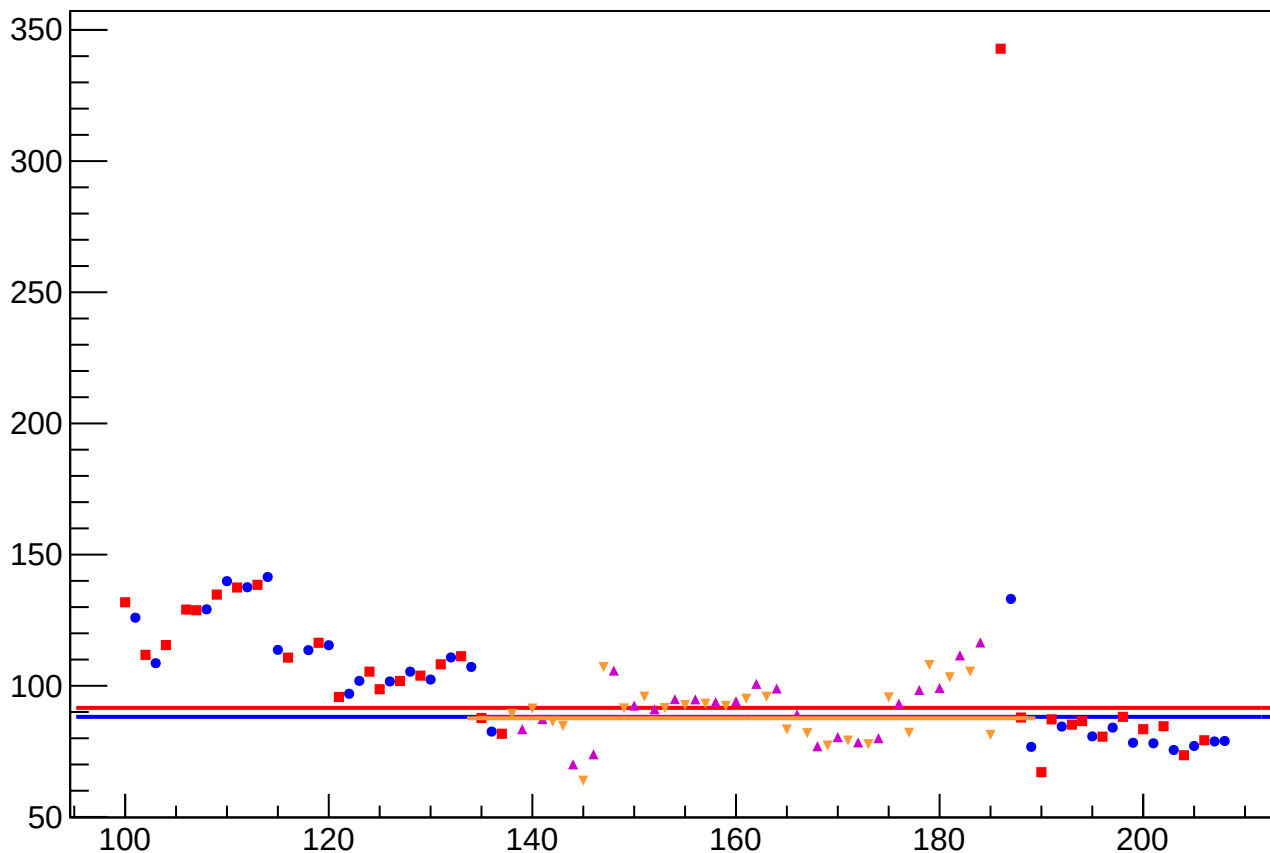
Right: 24.572 ± 16.911 $\chi^2/\text{NDF}: 61.6/58$

In: 26.572 ± 15.827 $\chi^2/\text{NDF}: 44.8/50$

Out: -29.225 ± 15.664 $\chi^2/\text{NDF}: 80.0/55$

All: -1.615 ± 11.133 $\chi^2/\text{NDF}: 131.1/106$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 88.160 $\pm$ 0.017 χ^2 /NDF: 929474.6/27

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 91.592 $\pm$ 0.017 χ^2 /NDF: 1329468.6/30

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

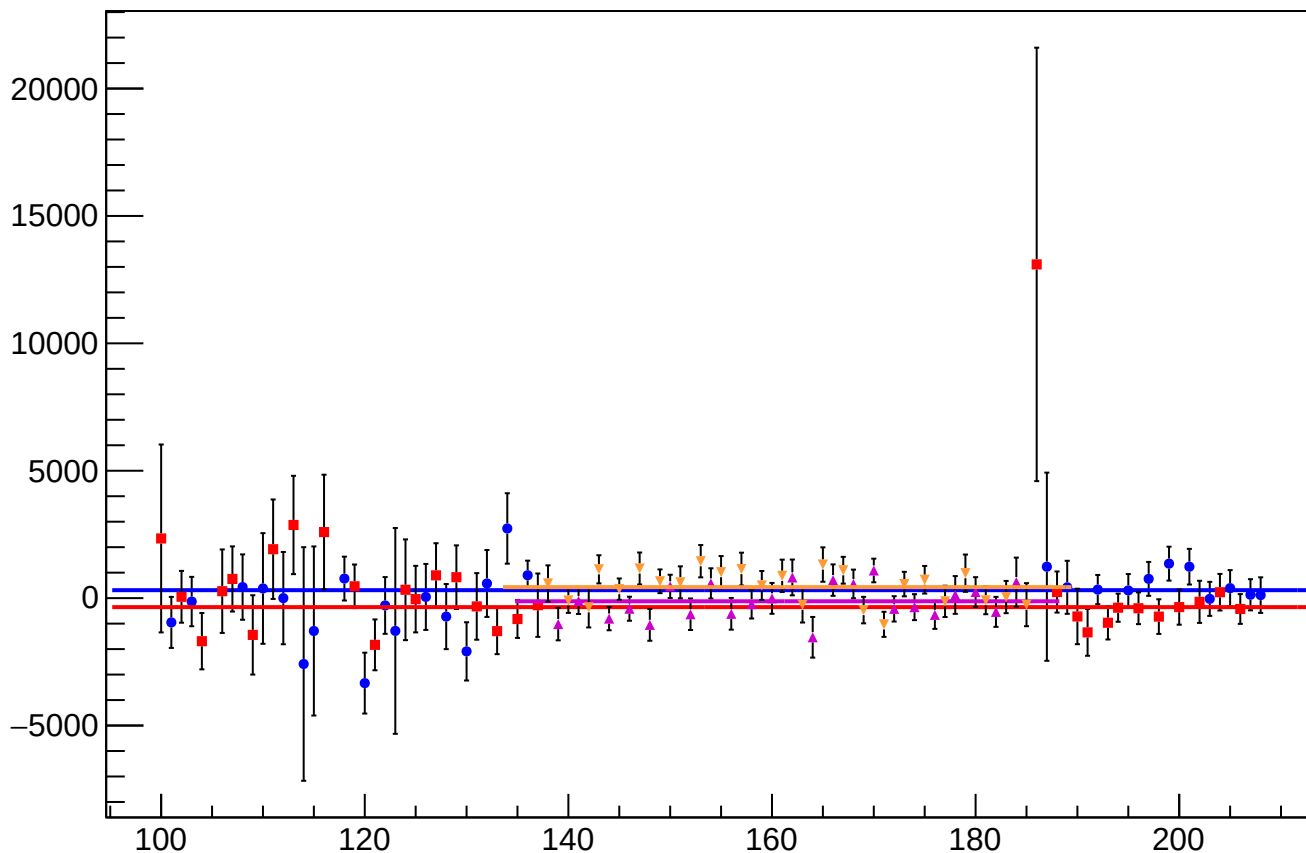
Right: 89.843 $\pm$ 0.012 χ^2 /NDF: 2279521.3/58

In: 88.089 $\pm$ 0.011 χ^2 /NDF: 1453217.9/50

Out: 89.294 $\pm$ 0.011 χ^2 /NDF: 1915406.4/55

All: 88.698 $\pm$ 0.008 χ^2 /NDF: 3374477.5/106

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 312.387 $\pm$ 170.626 χ^2 /NDF: 26.9/27

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -352.428 $\pm$ 168.801 χ^2 /NDF: 22.3/30

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

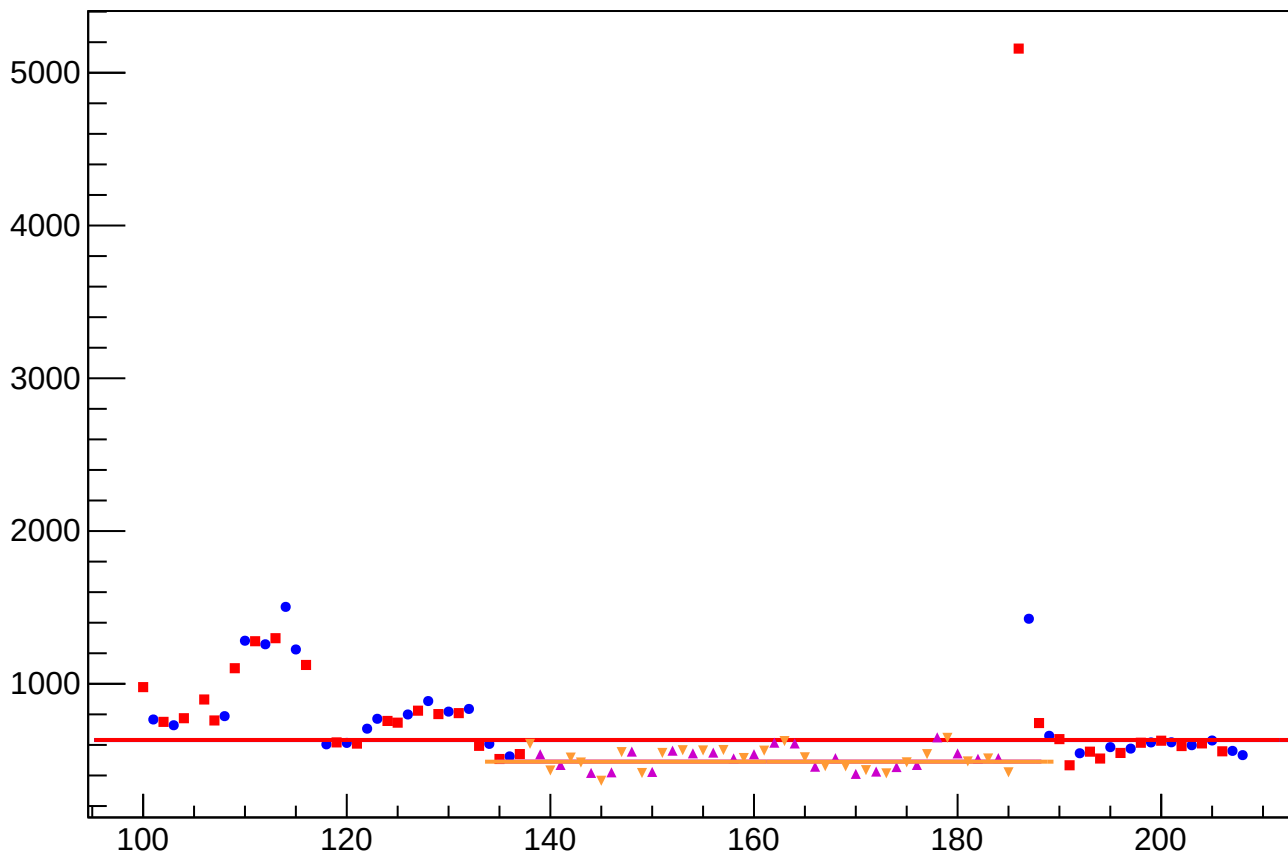
Right: -23.595 $\pm$ 120.000 χ^2 /NDF: 56.9/58

In: 19.222 $\pm$ 97.523 χ^2 /NDF:60.6/50

Out: 181.018 $\pm$ 95.437 χ^2 /NDF:67.4/55

All: 101.868 $\pm$ 68.210 χ^2 /NDF: 129.4/106

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 631.798+/-0.121 χ^2/NDF : 1177719.4/27

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 632.479+/-0.119 χ^2/NDF : 1970811.1/30

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

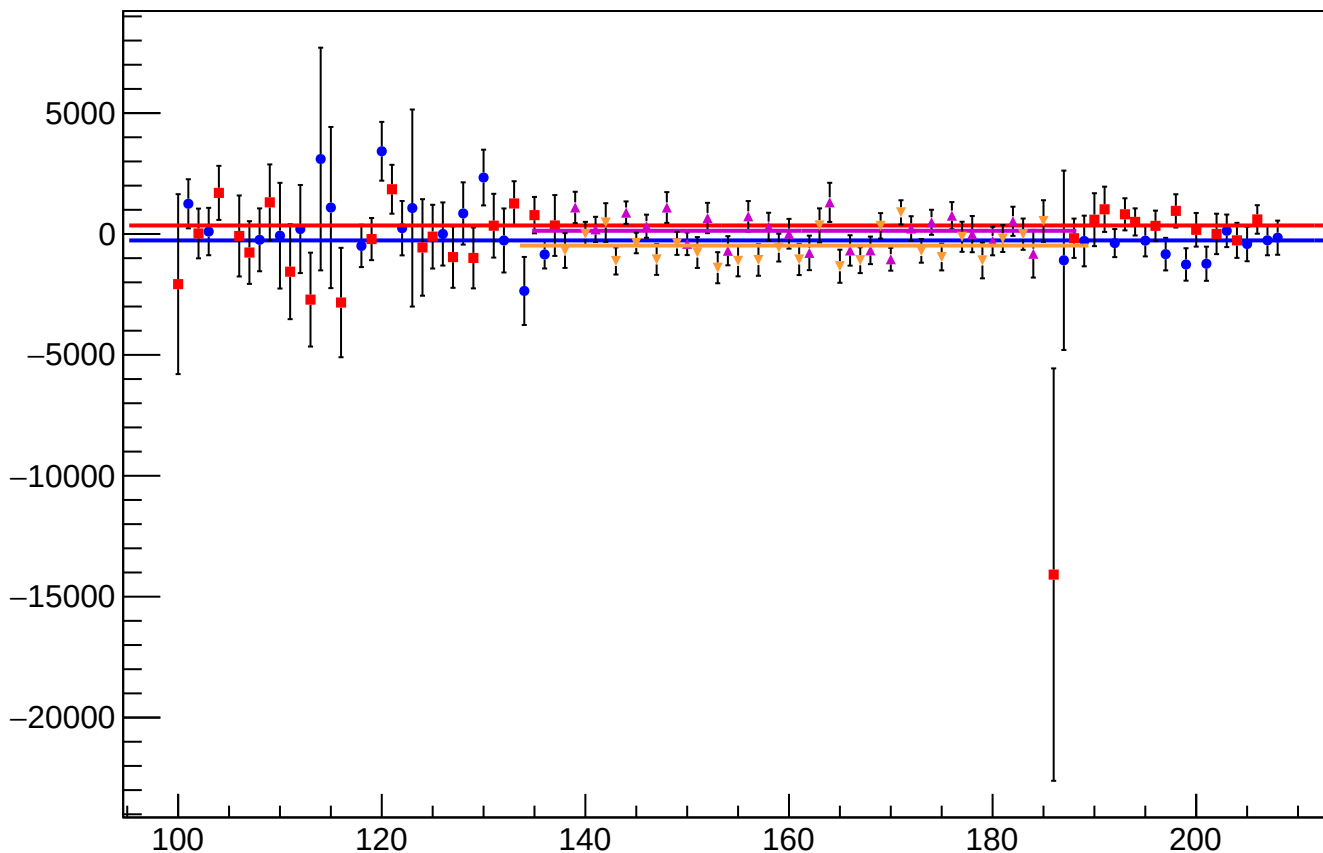
Right: 632.142+/-0.085 χ^2/NDF : 3148546.6/58

In: 536.935+/-0.069 χ^2/NDF : 2685106.6/50

Out: 535.726+/-0.067 χ^2/NDF : 3686874.9/55

All: 536.318+/-0.048 χ^2/NDF : 6372138.5/106

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -265.822+/-172.451 χ^2/NDF : 27.1/27

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 352.700+/-170.775 χ^2/NDF : 21.3/30

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

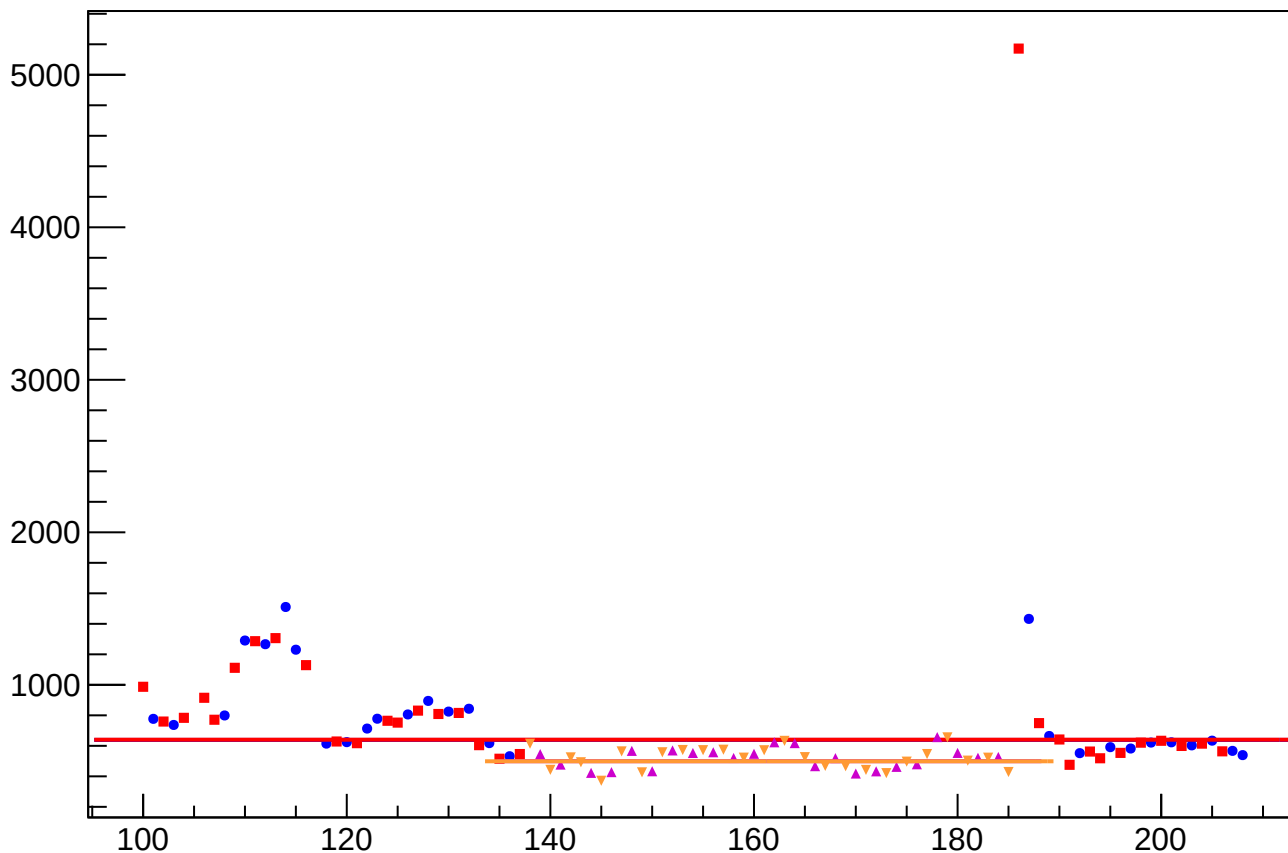
Right: 46.460+/-121.344 χ^2/NDF : 54.9/58

In: 1.318+/-98.977 χ^2/NDF : 60.2/50

Out: -210.741+/-96.889 χ^2/NDF : 65.2/55

All: -106.971+/-69.237 χ^2/NDF : 127.8/106

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 638.733+/-0.122 χ^2/NDF : 1166917.5/27

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 640.141+/-0.121 χ^2/NDF : 1950577.3/30

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

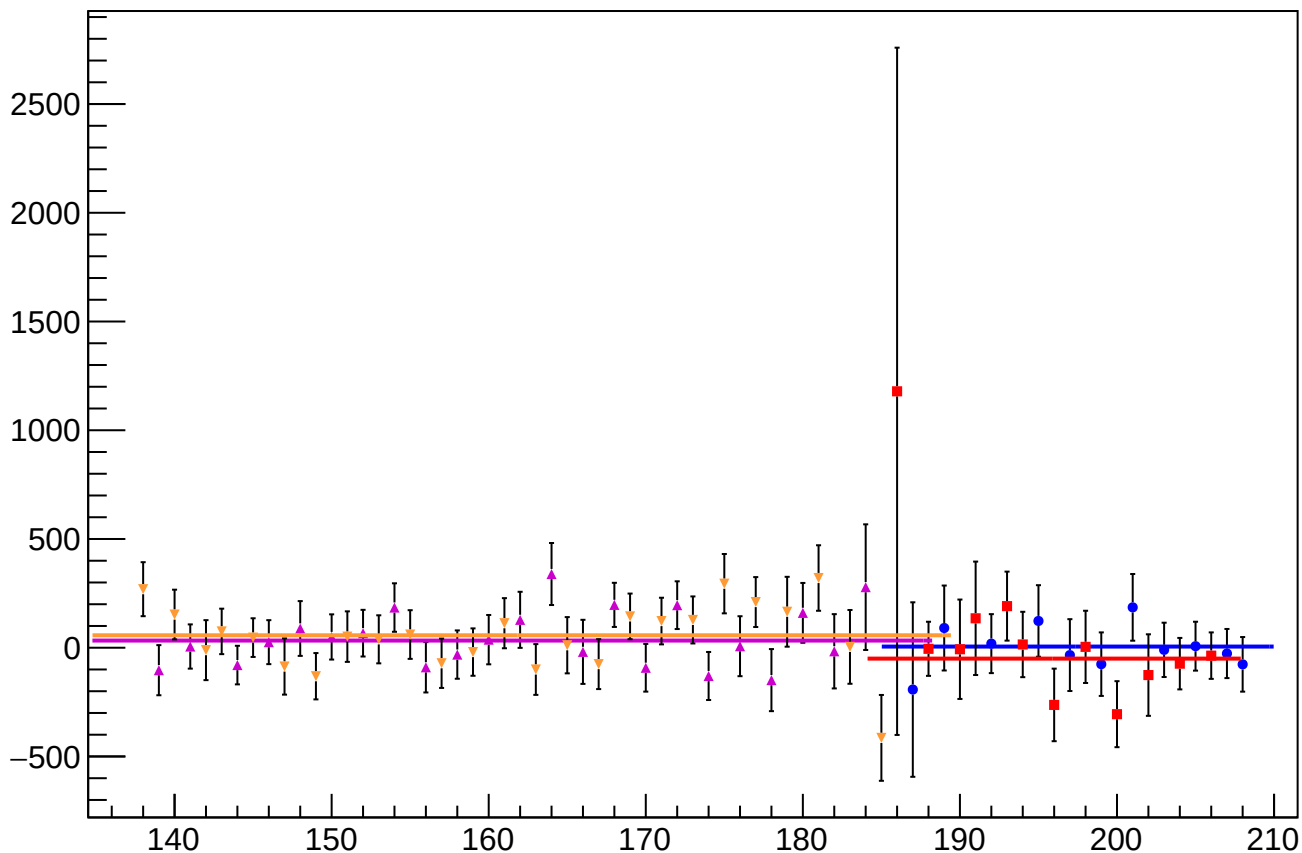
Right: 639.444+/-0.086 χ^2/NDF : 3117562.2/58

In: 545.293+/-0.070 χ^2/NDF : 2619060.2/50

Out: 544.265+/-0.069 χ^2/NDF : 3614490.4/55

All: 544.768+/-0.049 χ^2/NDF : 6233660.7/106

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 5.347 ± 43.238 $\chi^2/\text{NDF}: 3.2/10$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -50.025 ± 45.366 $\chi^2/\text{NDF}: 8.6/11$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

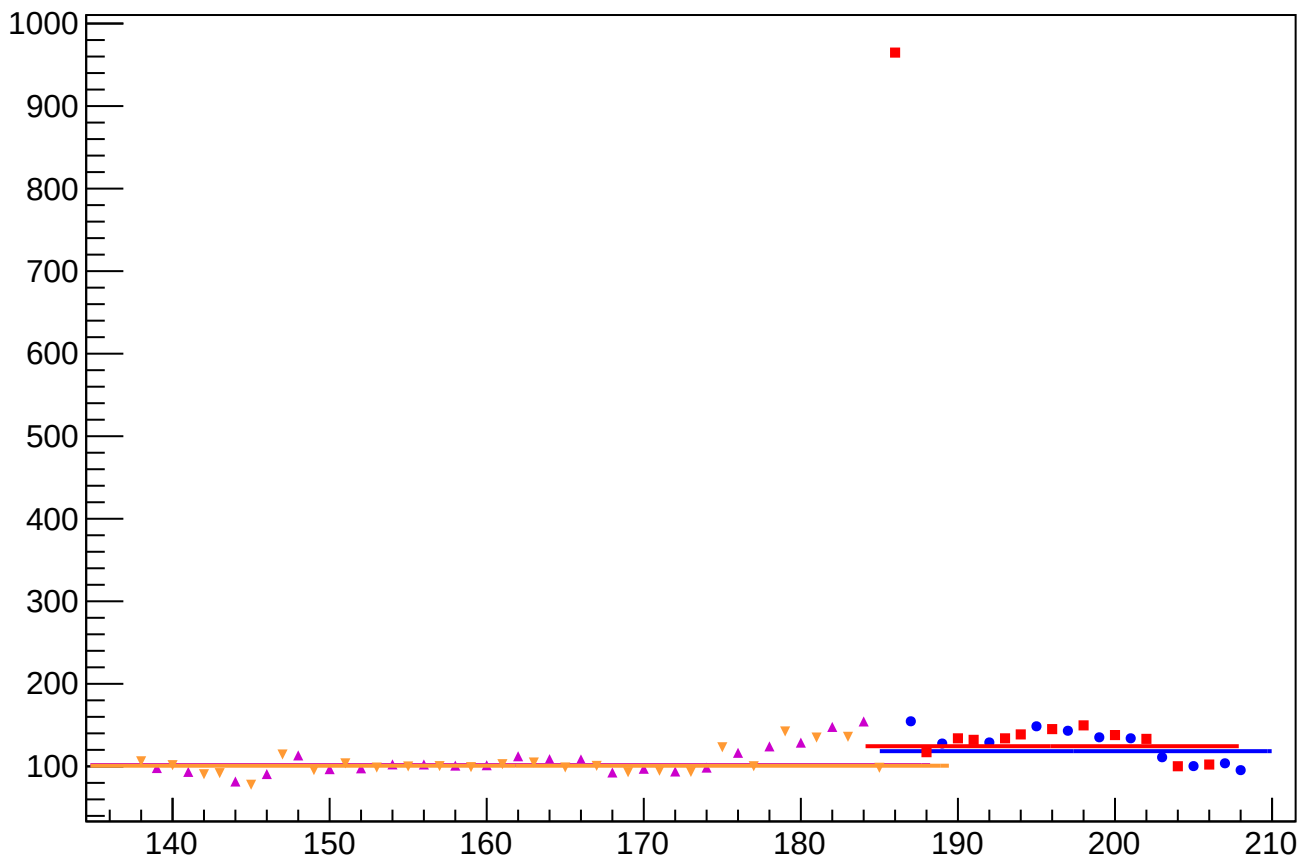
Right: -21.010 ± 31.299 $\chi^2/\text{NDF}: 12.6/22$

In: 26.204 ± 21.373 $\chi^2/\text{NDF}: 27.1/33$

Out: 34.198 ± 21.016 $\chi^2/\text{NDF}: 42.1/36$

All: 30.268 ± 14.985 $\chi^2/\text{NDF}: 69.3/70$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 118.416 $\pm$ 0.031 χ^2 /NDF: 351777.2/10

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 124.421 $\pm$ 0.032 χ^2 /NDF: 870975.6/11

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

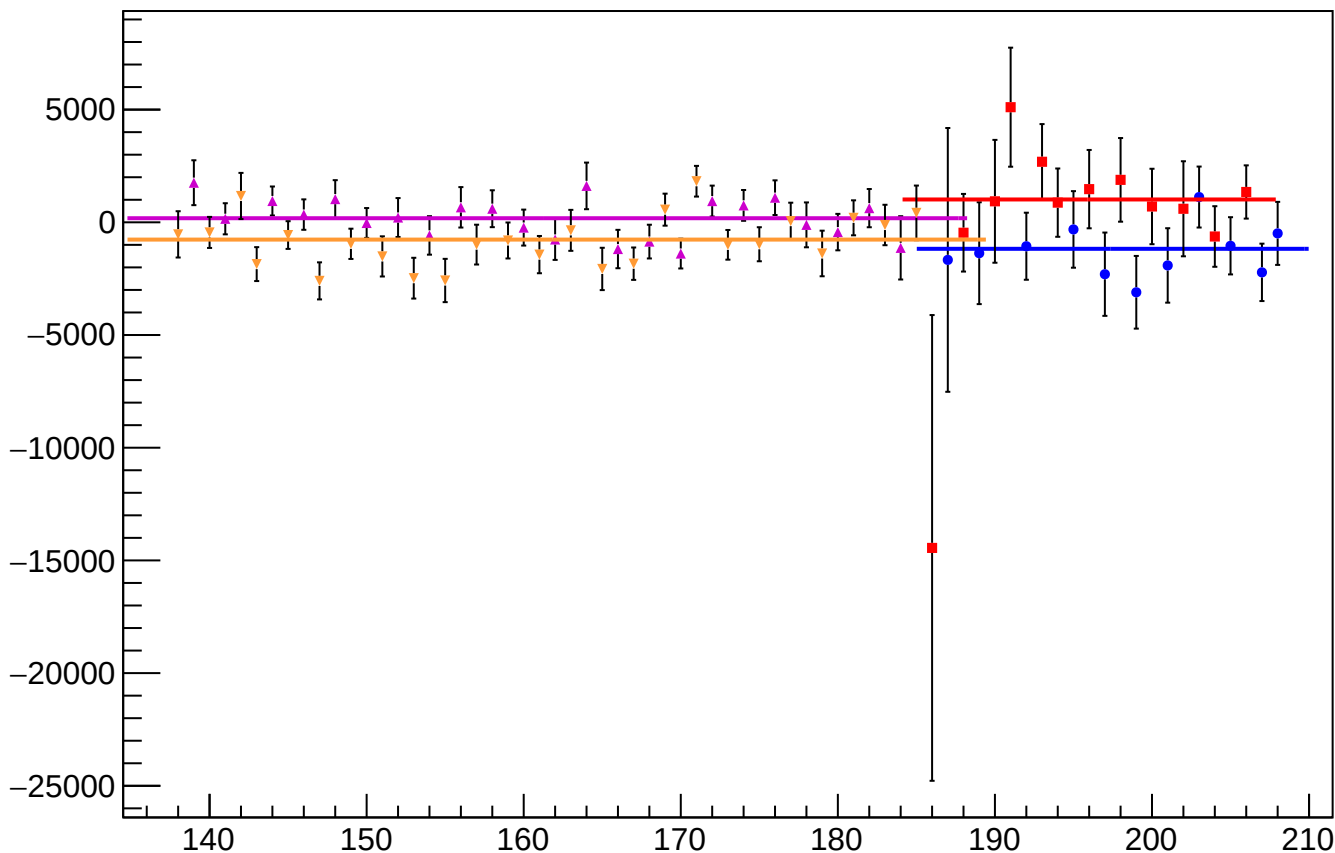
Right: 121.275 $\pm$ 0.022 χ^2 /NDF: 1241114.8/22

In: 105.725 $\pm$ 0.015 χ^2 /NDF: 1162122.4/33

Out: 105.870 $\pm$ 0.015 χ^2 /NDF: 1897325.6/36

All: 105.799 $\pm$ 0.011 χ^2 /NDF: 3059494.2/70

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1175.762 $\pm$ 478.718 χ^2 /NDF: 6.1/10

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1013.539 $\pm$ 506.901 χ^2 /NDF: 8.3/11

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

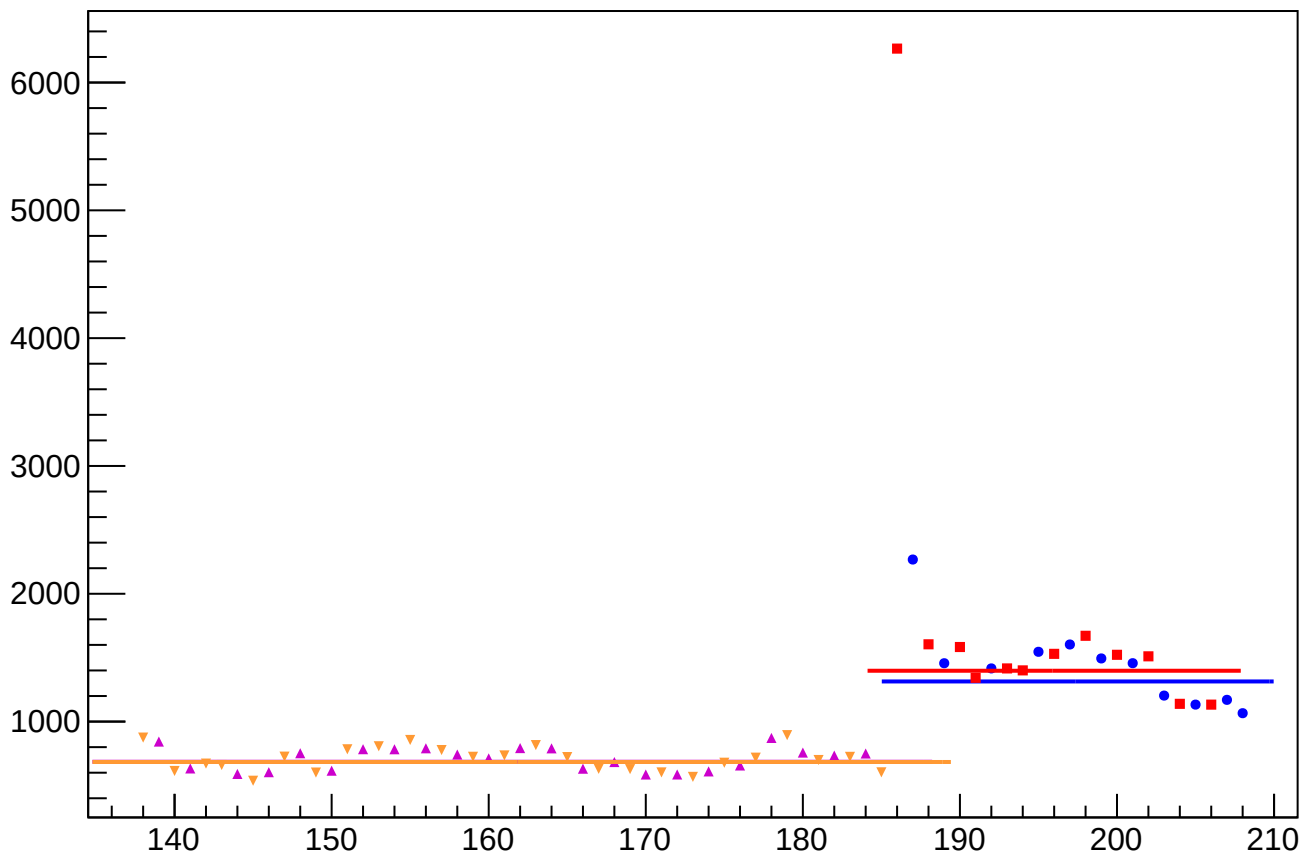
Right: -143.663 $\pm$ 348.042 χ^2 /NDF: 24.3/22

In: 36.407 $\pm$ 156.561 χ^2 /NDF:38.3/33

Out: -603.133 $\pm$ 153.503 χ^2 /NDF:66.1/36

All: -289.668 $\pm$ 109.608 χ^2 /NDF: 112.8/70

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1313.960 $\pm$ 0.339 χ^2 /NDF: 339428.0/10

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1397.721 $\pm$ 0.358 χ^2 /NDF: 730039.5/11

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

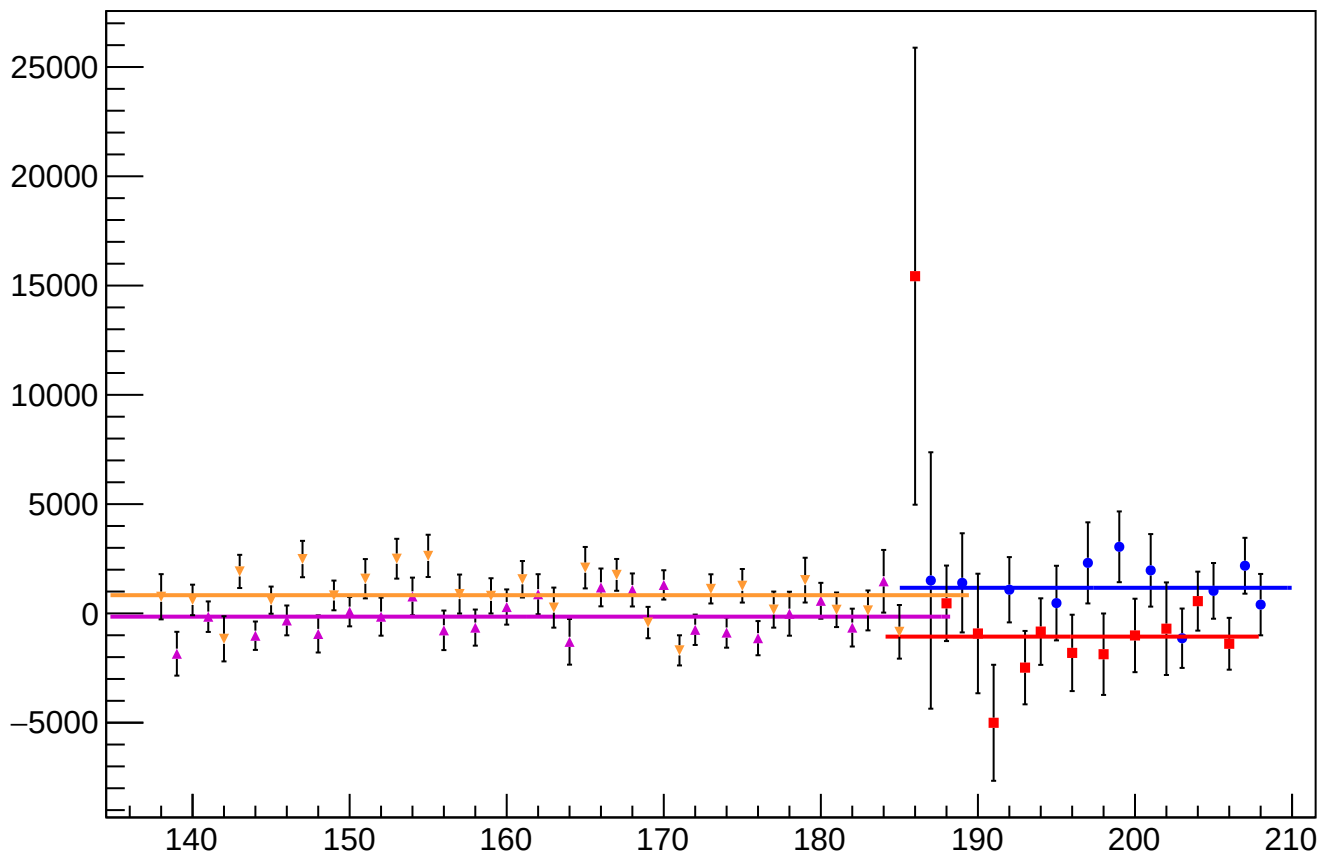
Right: 1353.447 $\pm$ 0.246 χ^2 /NDF: 1098332.5/22

In: 752.801 $\pm$ 0.111 χ^2 /NDF: 3946091.1/33

Out: 749.346 $\pm$ 0.109 χ^2 /NDF: 4999735.8/36

All: 751.039 $\pm$ 0.078 χ^2 /NDF: 8946323.3/70

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1171.547 $\pm$ 480.748 χ^2 /NDF: 6.0/10

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1062.016 $\pm$ 509.084 χ^2 /NDF: 8.1/11

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

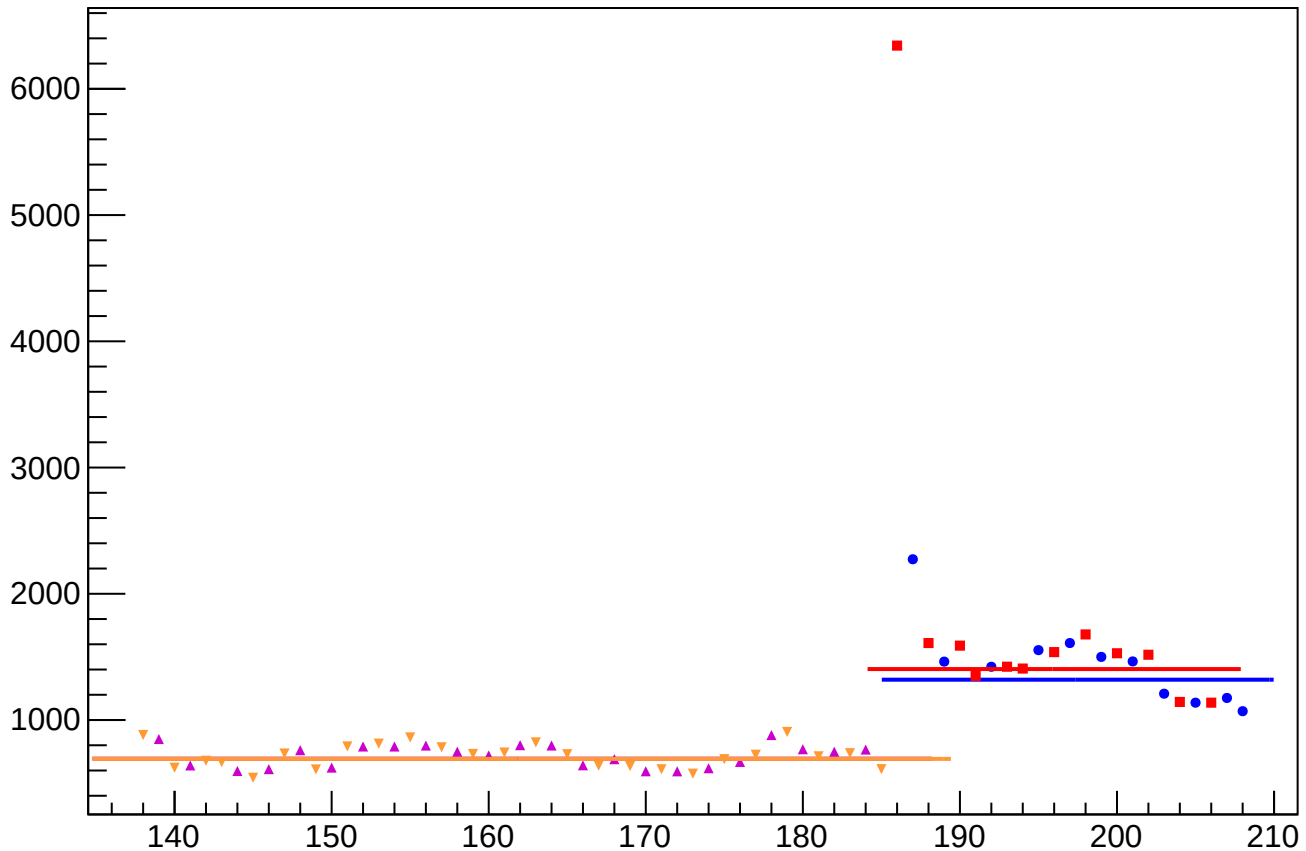
Right: 118.653 $\pm$ 349.528 χ^2 /NDF: 24.3/22

In: -5.663 $\pm$ 158.296 χ^2 /NDF:38.7/33

Out: 657.219 $\pm$ 155.207 χ^2 /NDF:63.9/36

All: 332.309 $\pm$ 110.824 χ^2 /NDF: 111.6/70

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1319.527 $\pm$ 0.340 χ^2 /NDF: 339914.0/10

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1403.687 $\pm$ 0.360 χ^2 /NDF: 732269.6/11

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

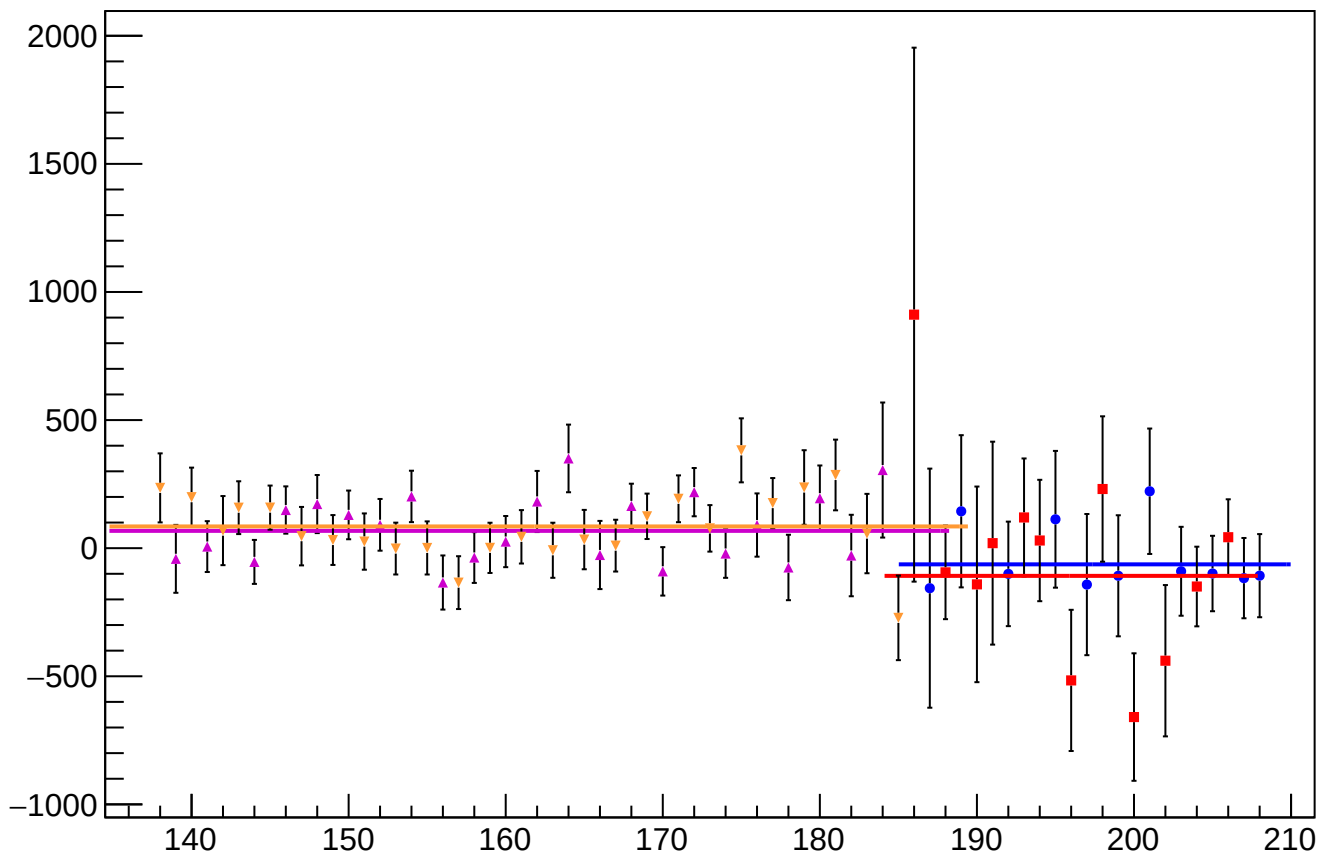
Right: 1359.200 $\pm$ 0.247 χ^2 /NDF: 1101076.6/22

In: 761.700 $\pm$ 0.112 χ^2 /NDF: 3882152.0/33

Out: 758.238 $\pm$ 0.110 χ^2 /NDF: 4933940.3/36

All: 759.935 $\pm$ 0.078 χ^2 /NDF: 8816580.1/70

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -63.128 $\pm$ 62.038 χ^2/NDF : 2.7/10

Left Out: 84.860 $\pm$ 21.643 χ^2/NDF : 28.5/24

Right Out: -108.080 $\pm$ 67.266 χ^2/NDF : 13.3/11

Left In: 67.552 $\pm$ 22.449 χ^2/NDF : 28.9/22

Left: 76.522 $\pm$ 15.581 χ^2/NDF : 57.7/47

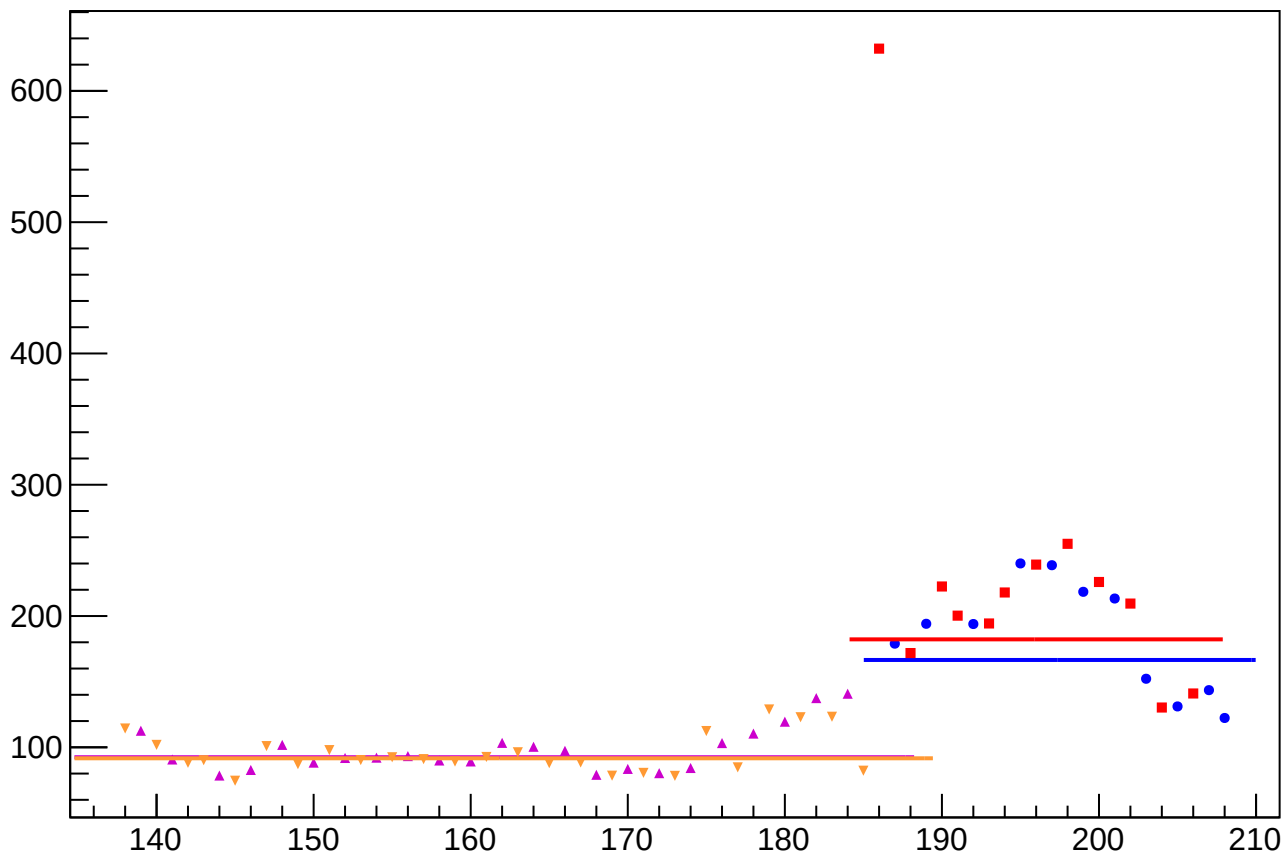
Right: -83.789 $\pm$ 45.604 χ^2/NDF : 16.3/22

In: 52.421 $\pm$ 21.110 χ^2/NDF : 35.5/33

Out: 66.760 $\pm$ 20.603 χ^2/NDF : 49.2/36

All: 59.765 $\pm$ 14.744 χ^2/NDF : 85.0/70

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 166.530 $\pm$ 0.044 χ^2 /NDF: 833897.6/10

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 182.229 $\pm$ 0.048 χ^2 /NDF: 1130803.9/11

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

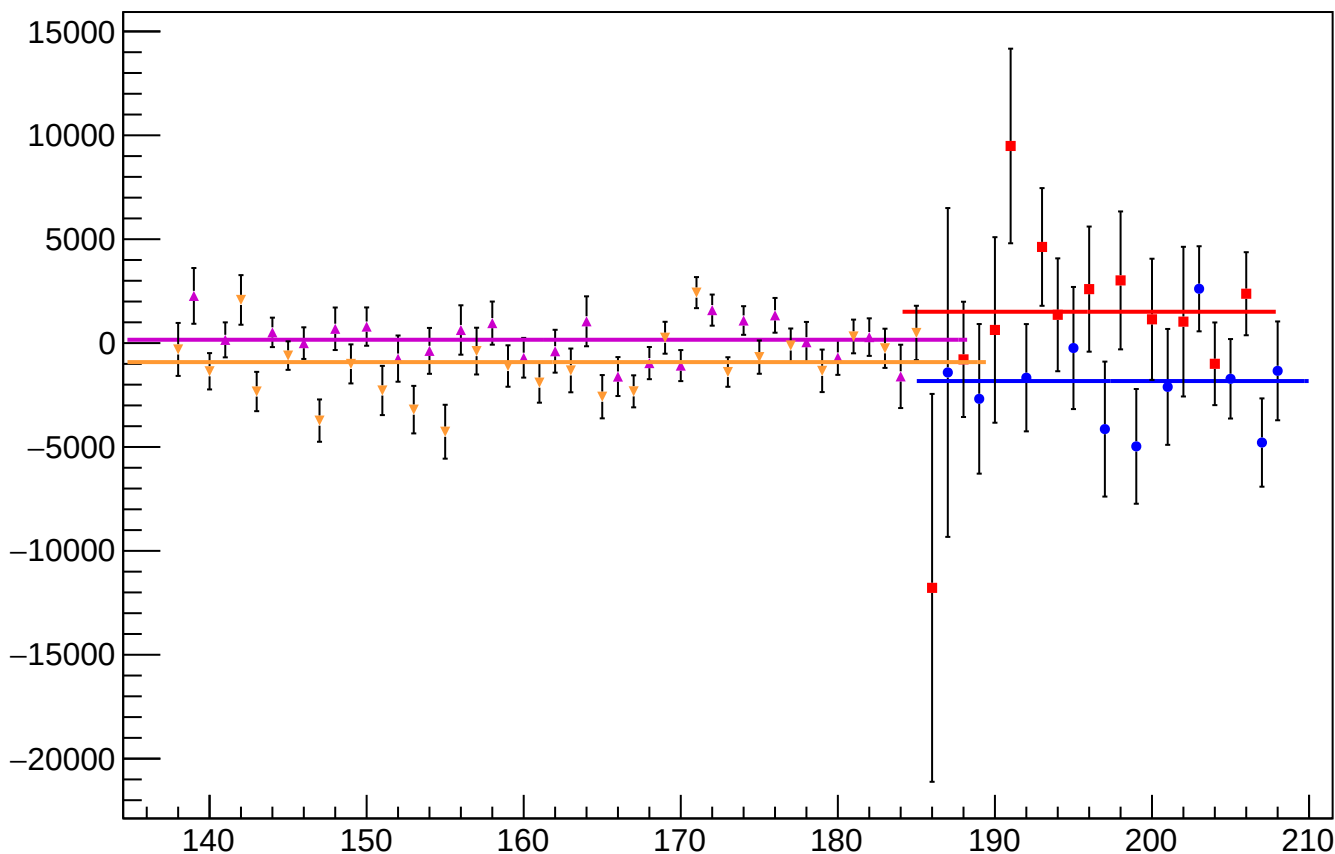
Right: 173.745 $\pm$ 0.032 χ^2 /NDF: 2023568.1/22

In: 101.041 $\pm$ 0.015 χ^2 /NDF: 4010113.8/33

Out: 100.132 $\pm$ 0.015 χ^2 /NDF: 5111503.2/36

All: 100.575 $\pm$ 0.010 χ^2 /NDF: 9123519.2/70

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1826.372 $\pm$ 784.843 χ^2 /NDF: 8.9/10

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 1508.618 $\pm$ 846.333 χ^2 /NDF: 9.0/11

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

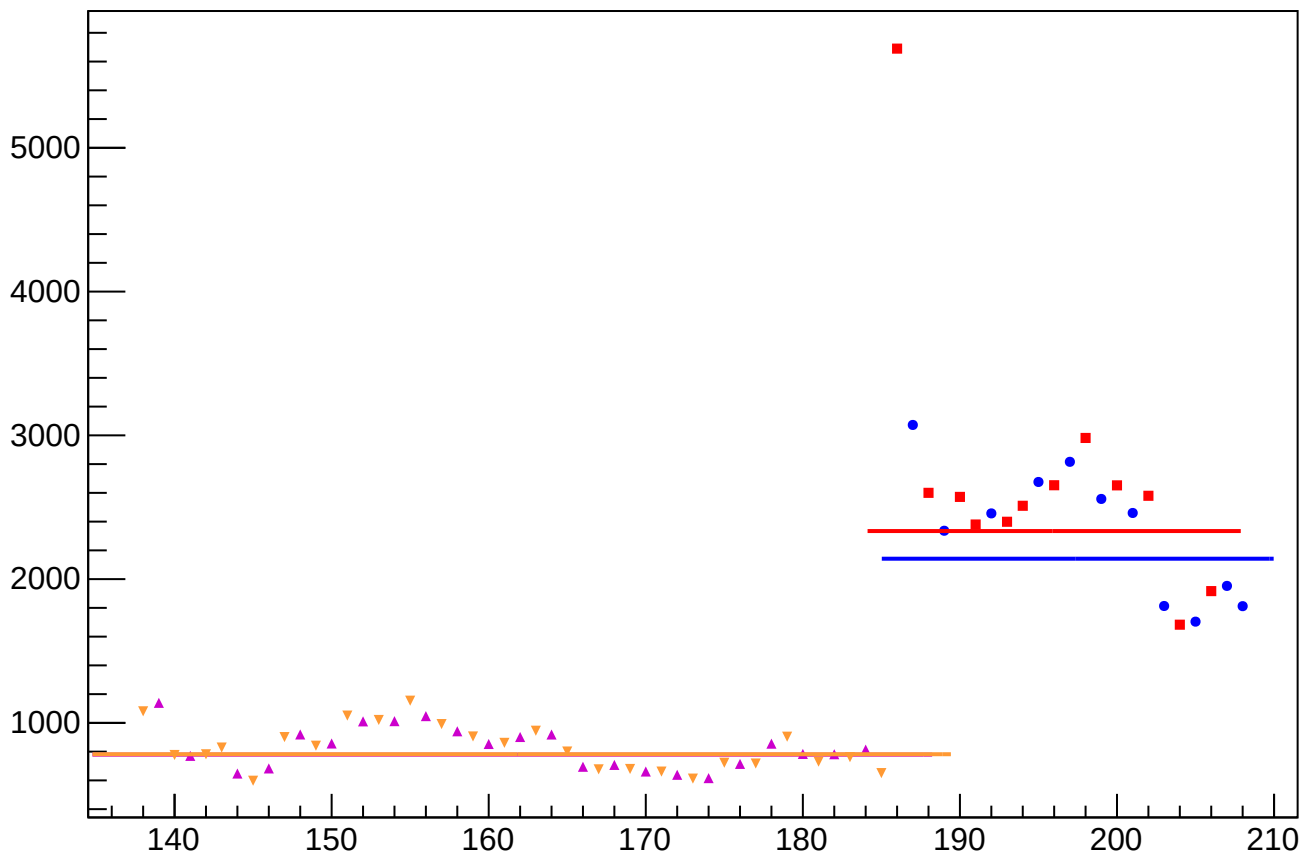
Right: -284.417 $\pm$ 575.479 χ^2 /NDF: 26.2/22

In: 51.605 $\pm$ 184.198 χ^2 /NDF:40.0/33

Out: -803.820 $\pm$ 181.050 χ^2 /NDF:81.0/36

All: -383.479 $\pm$ 129.120 χ^2 /NDF: 132.0/70

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2141.997 $\pm$ 0.555 χ^2 /NDF: 497452.0/10

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2334.389 $\pm$ 0.598 χ^2 /NDF: 725414.9/11

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

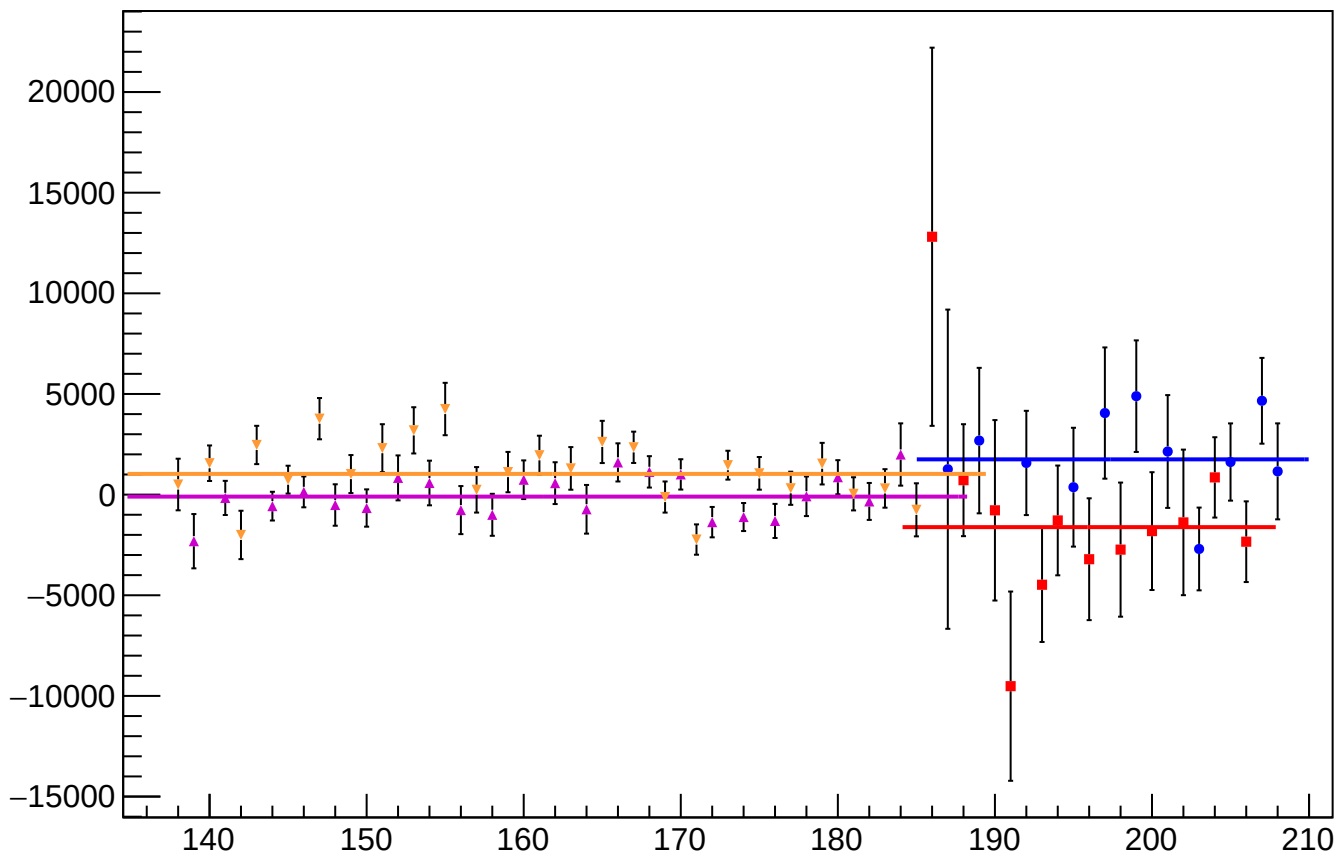
Right: 2230.951 $\pm$ 0.407 χ^2 /NDF: 1278433.7/22

In: 854.071 $\pm$ 0.130 χ^2 /NDF: 7177404.0/33

Out: 853.082 $\pm$ 0.128 χ^2 /NDF: 8277087.4/36

All: 853.568 $\pm$ 0.091 χ^2 /NDF: 15454520.7/70

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1751.860 $\pm$ 787.517 χ^2 /NDF: 8.7/10

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF: 60.2/24

Right Out: -1615.058 $\pm$ 849.285 χ^2 /NDF: 9.0/11

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

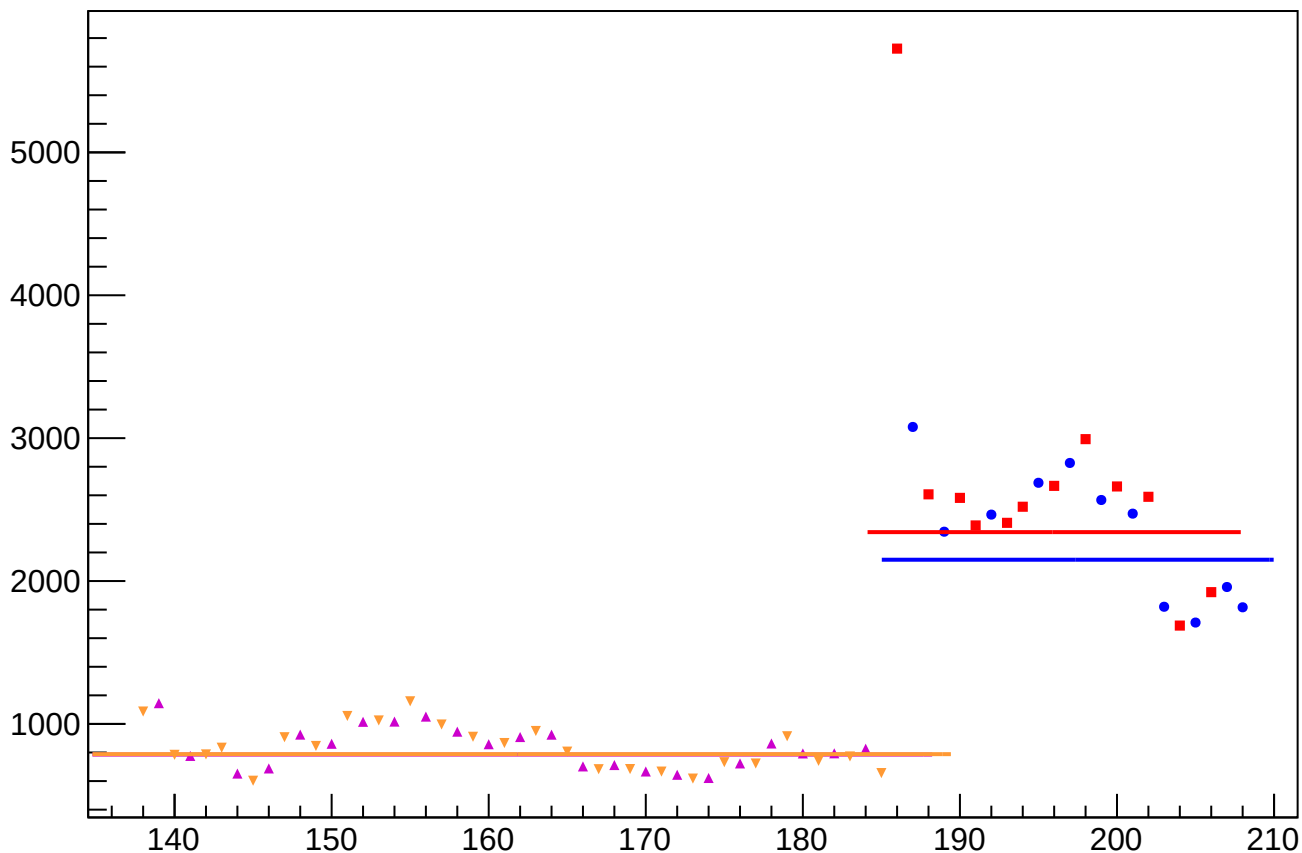
Right: 195.277 $\pm$ 577.462 χ^2 /NDF: 26.2/22

In: 4.144 $\pm$ 185.643 χ^2 /NDF: 39.3/33

Out: 906.846 $\pm$ 182.449 χ^2 /NDF: 78.4/36

All: 463.329 $\pm$ 130.125 χ^2 /NDF: 129.8/70

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2149.159 $\pm$ 0.557 χ^2/NDF : 499341.3/10

Left Out: 788.442 $\pm$ 0.132 χ^2/NDF : 1113741.6/24

Right Out: 2342.342 $\pm$ 0.601 χ^2/NDF : 728107.4/11

Left In: 785.490 $\pm$ 0.135 χ^2/NDF : 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2/NDF : 2079324.6/47

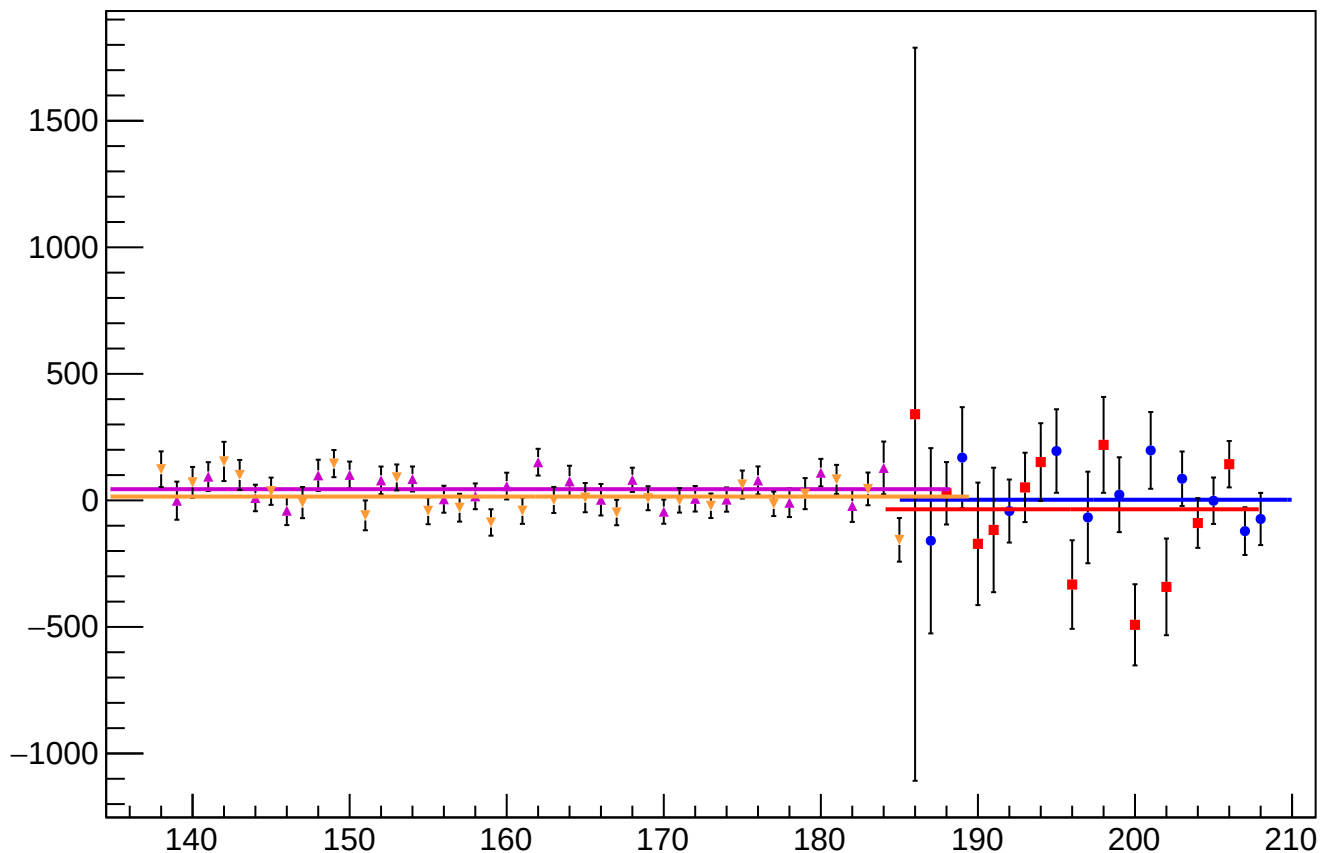
Right: 2238.470 $\pm$ 0.408 χ^2/NDF : 1283088.9/22

In: 861.269 $\pm$ 0.131 χ^2/NDF : 7128338.5/33

Out: 860.155 $\pm$ 0.129 χ^2/NDF : 8228144.1/36

All: 860.702 $\pm$ 0.092 χ^2/NDF : 15356519.2/70

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 2.621 ± 38.776 χ^2/NDF : 7.1/10

Left Out: 15.099 ± 11.154 χ^2/NDF : 34.2/24

Right Out: -35.126 ± 42.828 χ^2/NDF : 22.1/11

Left In: 44.297 ± 11.530 χ^2/NDF : 22.3/22

Left: 29.215 ± 8.017 χ^2/NDF : 59.8/47

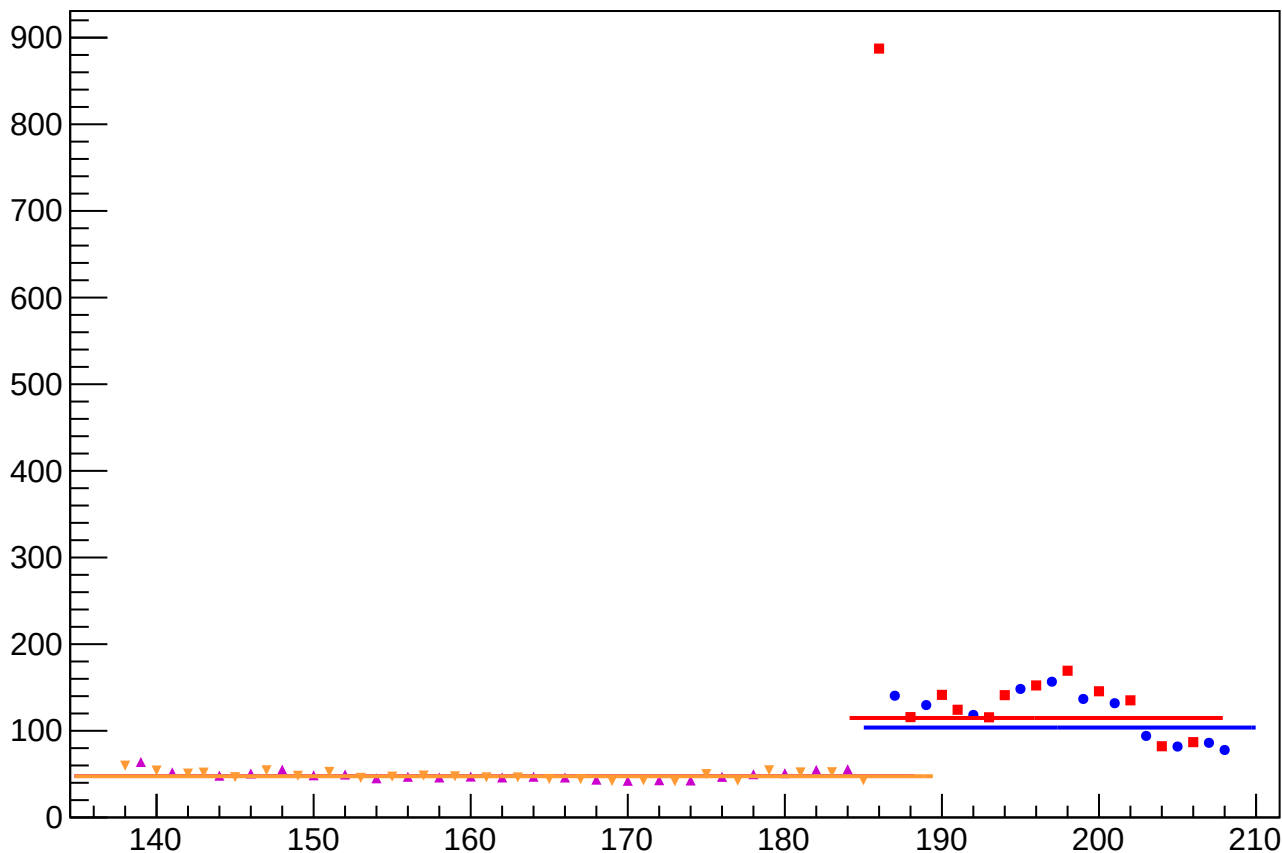
Right: -14.383 ± 28.745 χ^2/NDF : 29.6/22

In: 40.912 ± 11.051 χ^2/NDF : 30.4/33

Out: 11.909 ± 10.794 χ^2/NDF : 57.6/36

All: 26.069 ± 7.722 χ^2/NDF : 91.5/70

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 103.760 $\pm$ 0.027 χ^2 /NDF: 892750.3/10

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 114.815 $\pm$ 0.030 χ^2 /NDF: 1415580.7/11

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

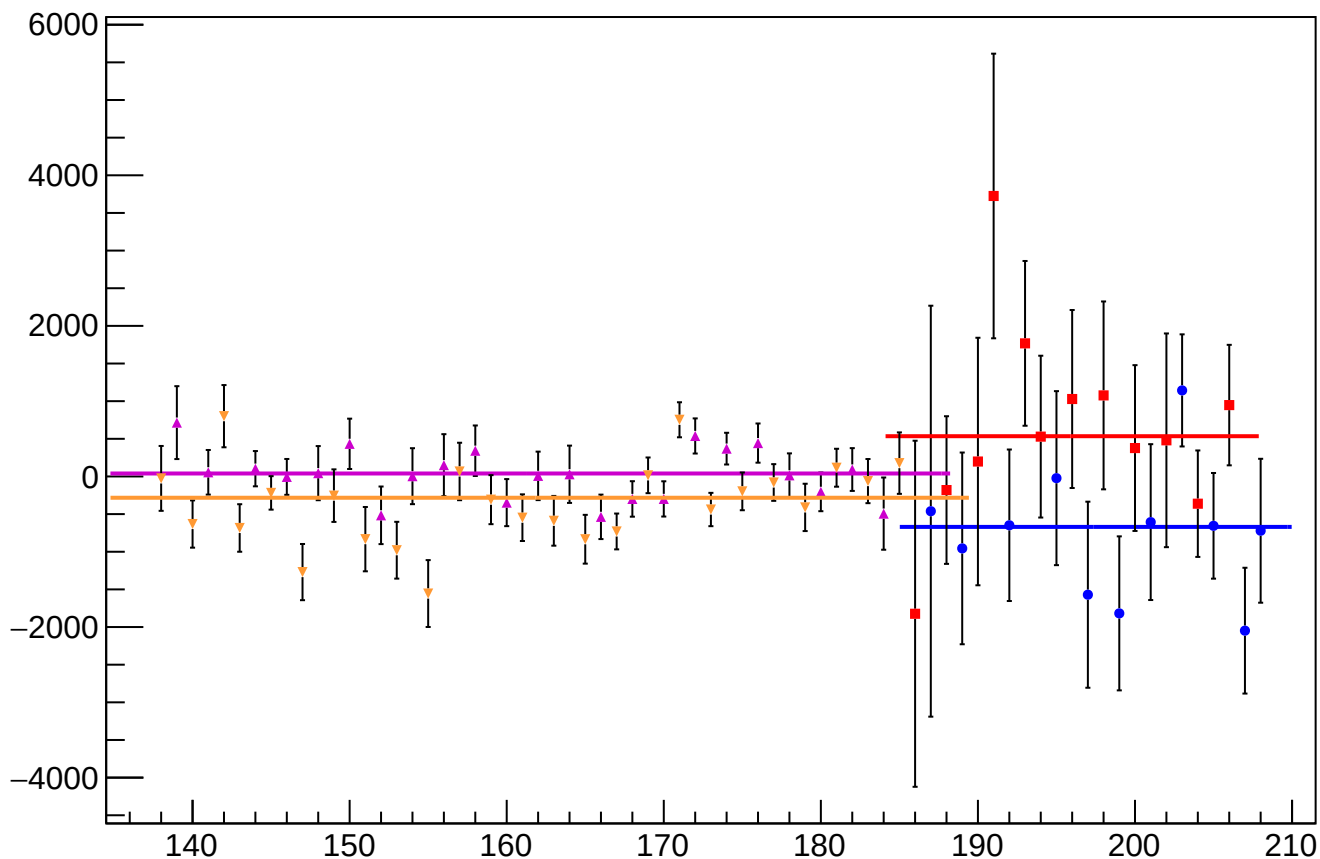
Right: 108.740 $\pm$ 0.020 χ^2 /NDF: 2381560.0/22

In: 52.388 $\pm$ 0.008 χ^2 /NDF:4995411.1/33

Out: 51.857 $\pm$ 0.008 χ^2 /NDF:6343632.6/36

All: 52.116 $\pm$ 0.005 χ^2 /NDF: 11341408.9/70

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -669.979 ± 296.247 $\chi^2/\text{NDF}: 10.8/10$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 534.663 ± 319.073 $\chi^2/\text{NDF}: 8.0/11$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

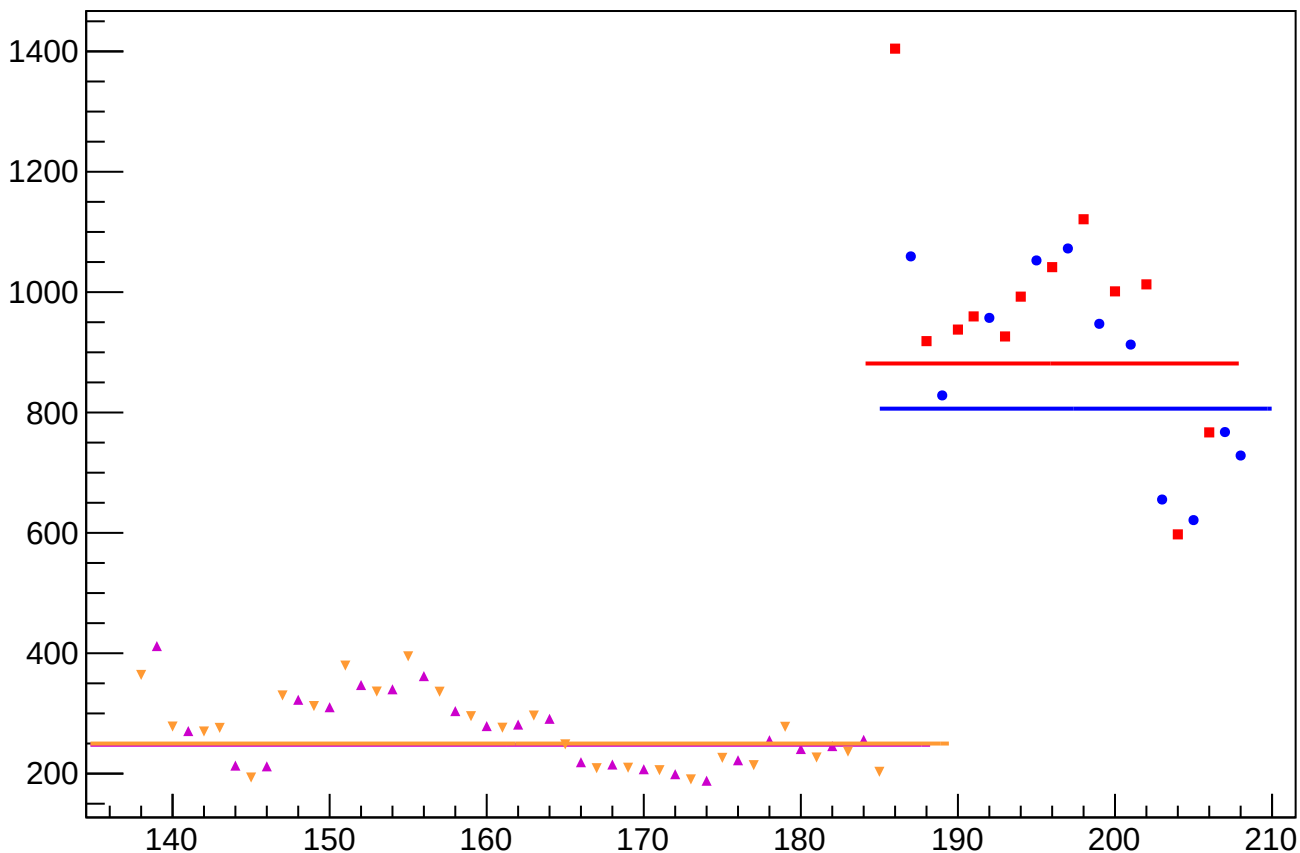
Right: -112.284 ± 217.100 $\chi^2/\text{NDF}: 26.5/22$

In: 10.796 ± 59.520 $\chi^2/\text{NDF}: 43.9/33$

Out: -255.158 ± 58.672 $\chi^2/\text{NDF}: 80.9/36$

All: -124.089 ± 41.784 $\chi^2/\text{NDF}: 134.9/70$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 806.398 $\pm$ 0.209 χ^2 /NDF: 544624.7/10

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24

Right Out: 881.435 $\pm$ 0.226 χ^2 /NDF: 651840.5/11

Left In: 247.917 $\pm$ 0.043 χ^2 /NDF: 1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47

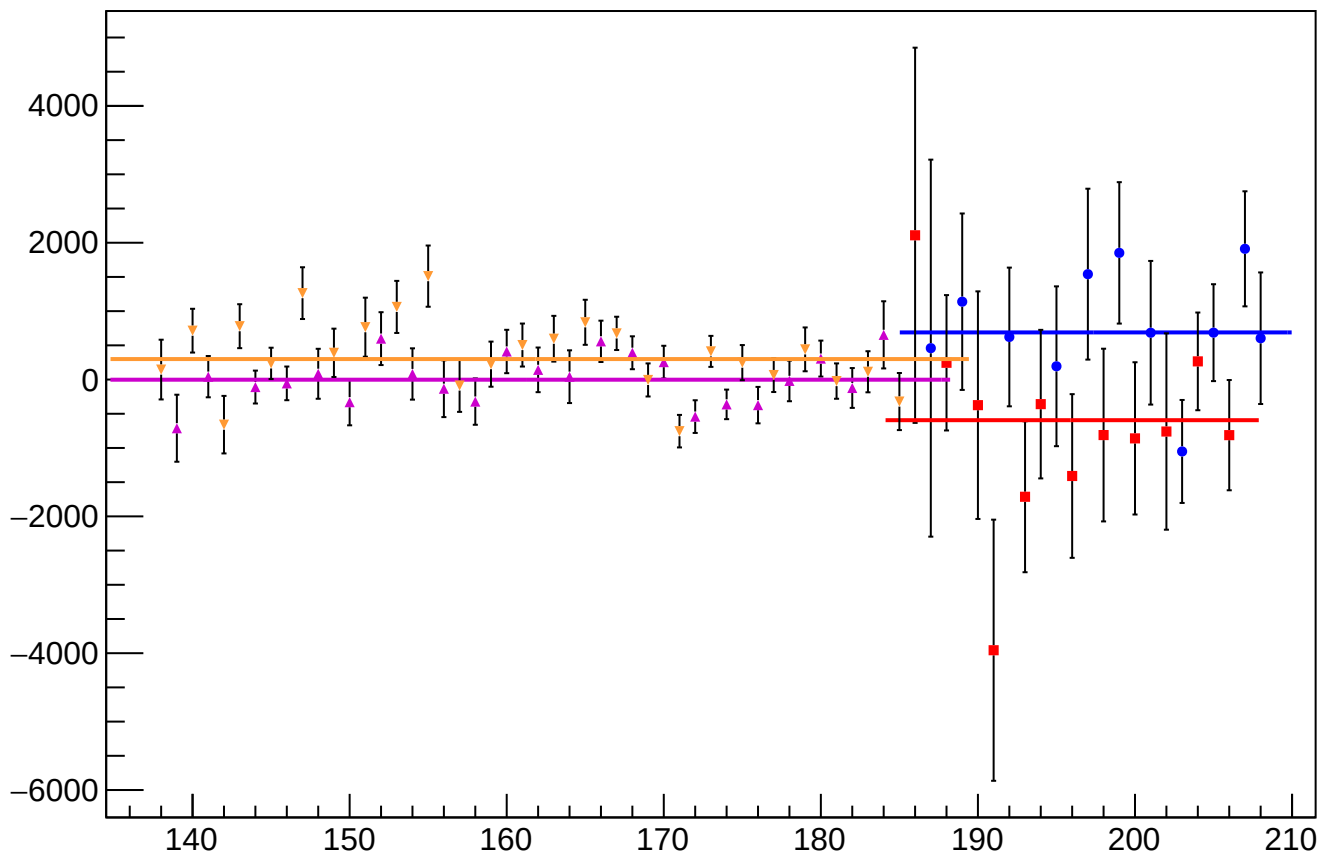
Right: 841.137 $\pm$ 0.154 χ^2 /NDF: 1255869.1/22

In: 270.461 $\pm$ 0.042 χ^2 /NDF: 8776415.3/33

Out: 271.309 $\pm$ 0.041 χ^2 /NDF: 9834885.8/36

All: 270.891 $\pm$ 0.030 χ^2 /NDF: 18611507.0/70

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 689.013+/-299.116 χ^2/NDF : 9.5/10

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -593.974+/-323.073 χ^2/NDF : 8.0/11

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

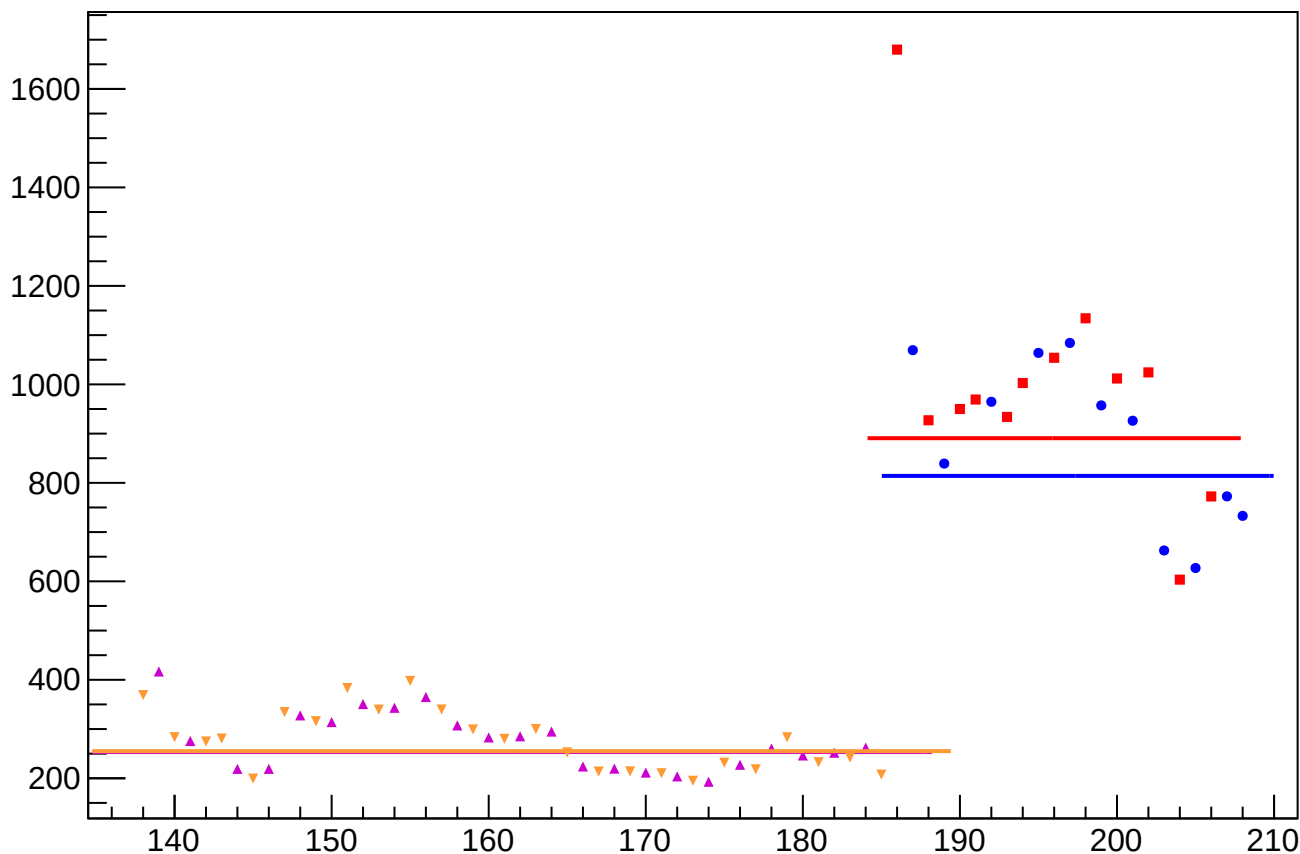
Right: 96.847+/-219.488 χ^2/NDF : 26.0/22

In: 26.292+/-60.714 χ^2/NDF : 43.8/33

Out: 268.941+/-59.808 χ^2/NDF : 77.8/36

All: 149.441+/-42.607 χ^2/NDF : 129.7/70

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 814.123+/-0.212 χ^2/NDF : 547767.8/10

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 890.685+/-0.228 χ^2/NDF : 718175.9/11

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

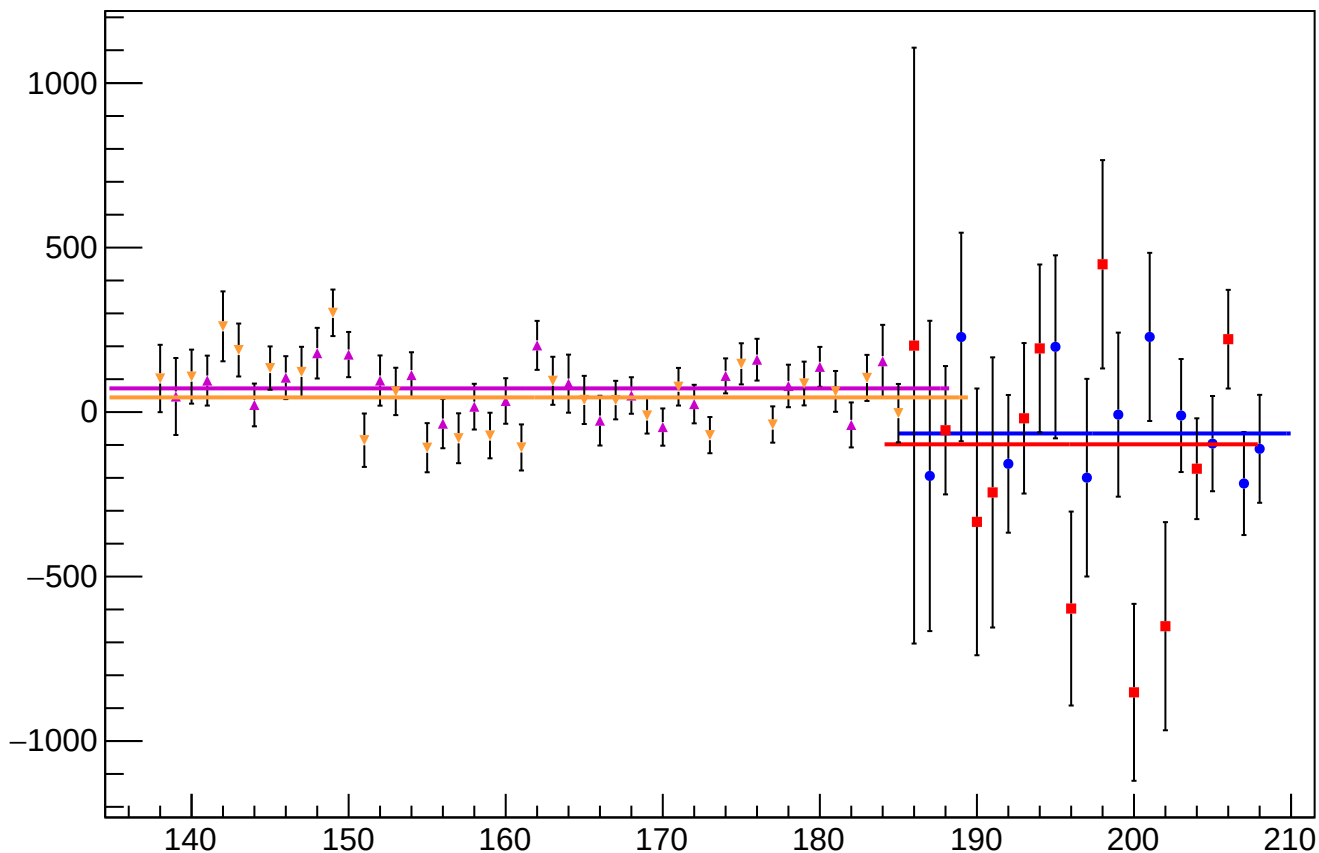
Right: 849.460+/-0.155 χ^2/NDF : 1326421.3/22

In: 276.394+/-0.043 χ^2/NDF : 8630820.3/33

Out: 276.916+/-0.042 χ^2/NDF : 9734728.1/36

All: 276.659+/-0.030 χ^2/NDF : 18365623.4/70

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -65.006 ± 62.971 χ^2/NDF : 4.8/10

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -97.996 ± 69.611 χ^2/NDF : 23.6/11

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

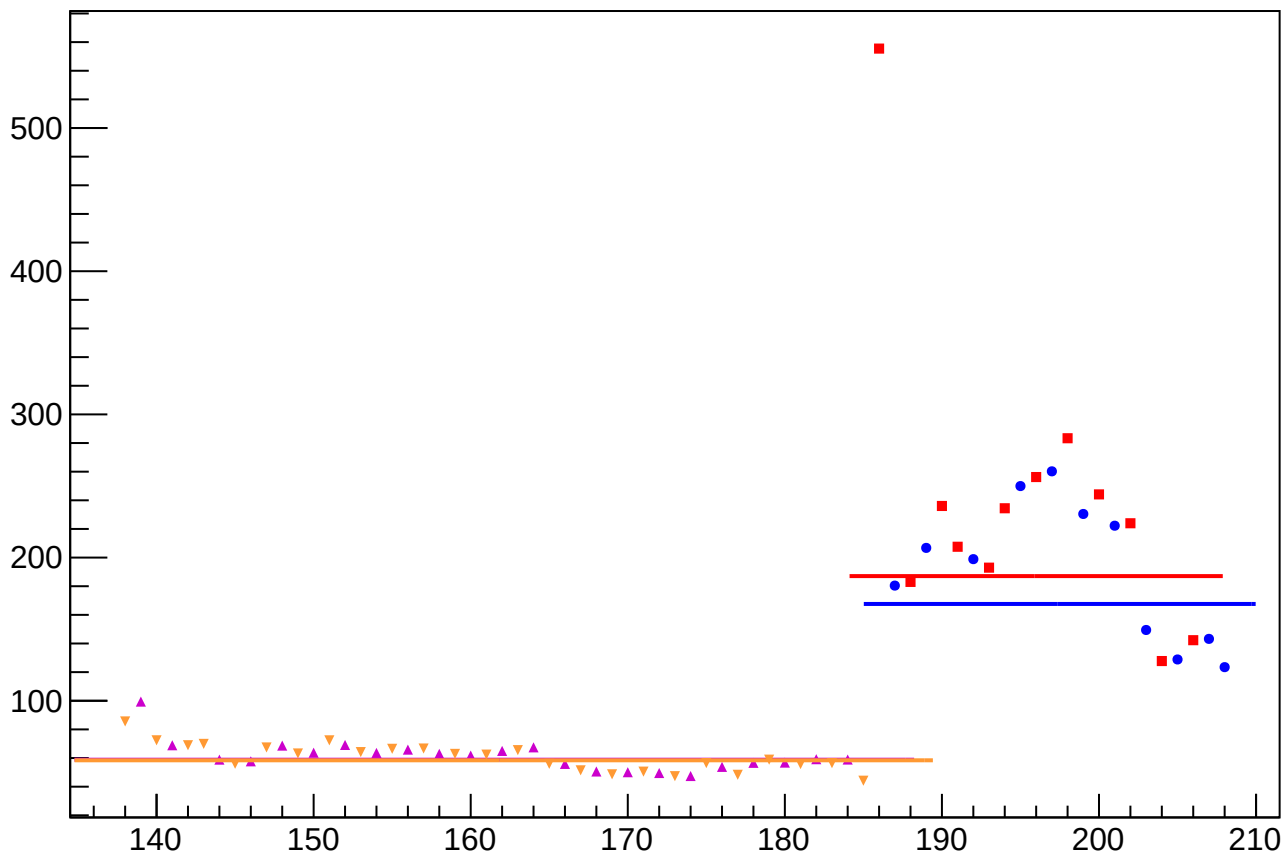
Right: -79.853 ± 46.699 χ^2/NDF : 28.5/22

In: 65.320 ± 13.942 χ^2/NDF : 34.6/33

Out: 39.191 ± 13.559 χ^2/NDF : 81.5/36

All: 51.892 ± 9.720 χ^2/NDF : 117.9/70

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 167.613 +/- 0.045 χ^2/NDF : 1019551.4/10

Left Out: 58.423 +/- 0.010 χ^2/NDF : 790091.3/24

Right Out: 187.067 +/- 0.049 χ^2/NDF : 1326658.9/11

Left In: 58.840 +/- 0.010 χ^2/NDF : 679925.7/22

Left: 58.624 +/- 0.007 χ^2/NDF : 1470896.0/47

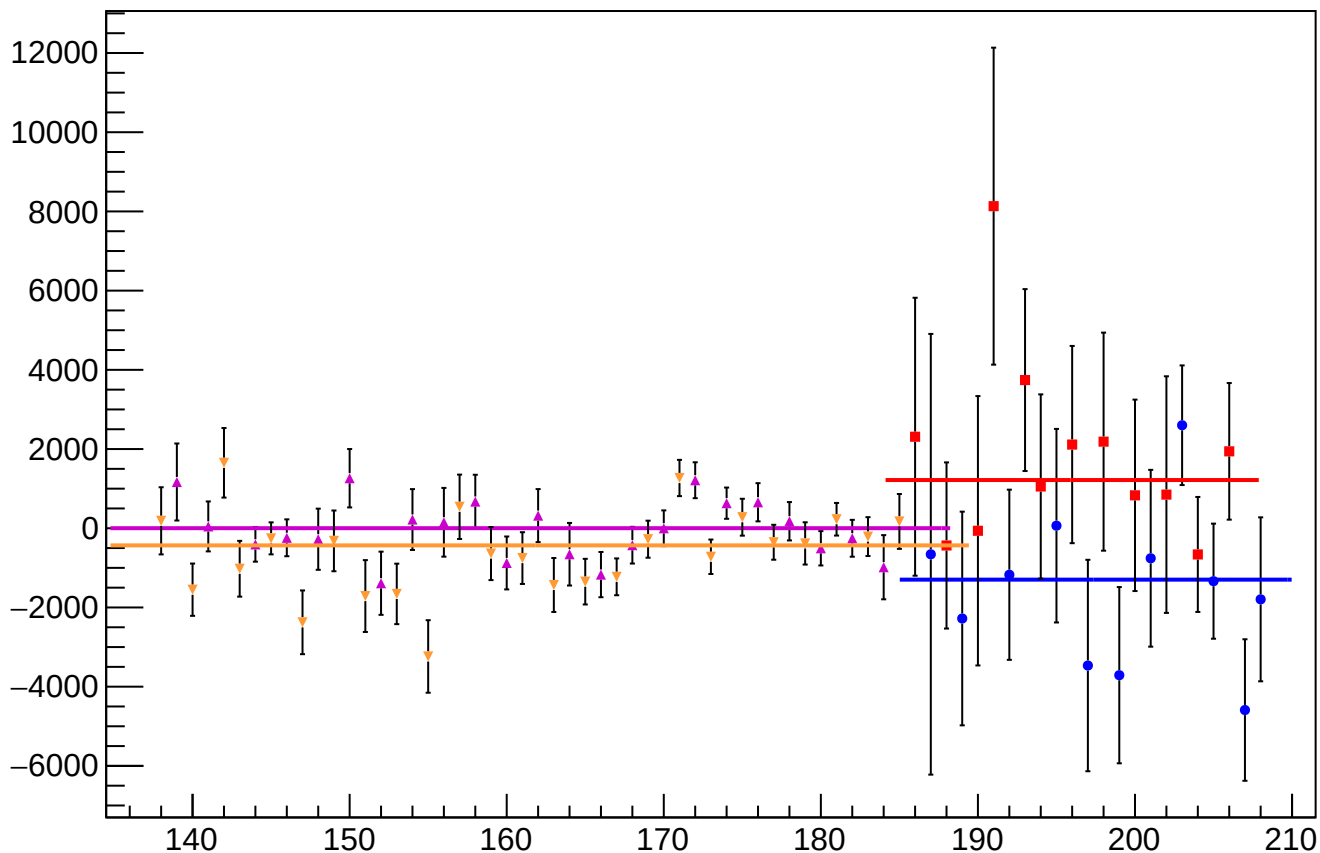
Right: 176.368 +/- 0.033 χ^2/NDF : 2432109.7/22

In: 64.171 +/- 0.010 χ^2/NDF : 7374503.1/33

Out: 63.304 +/- 0.010 χ^2/NDF : 8688048.7/36

All: 63.726 +/- 0.007 χ^2/NDF : 16066531.5/70

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1297.355 ± 625.577 $\chi^2/\text{NDF}: 12.5/10$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1217.496 ± 671.309 $\chi^2/\text{NDF}: 7.2/11$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

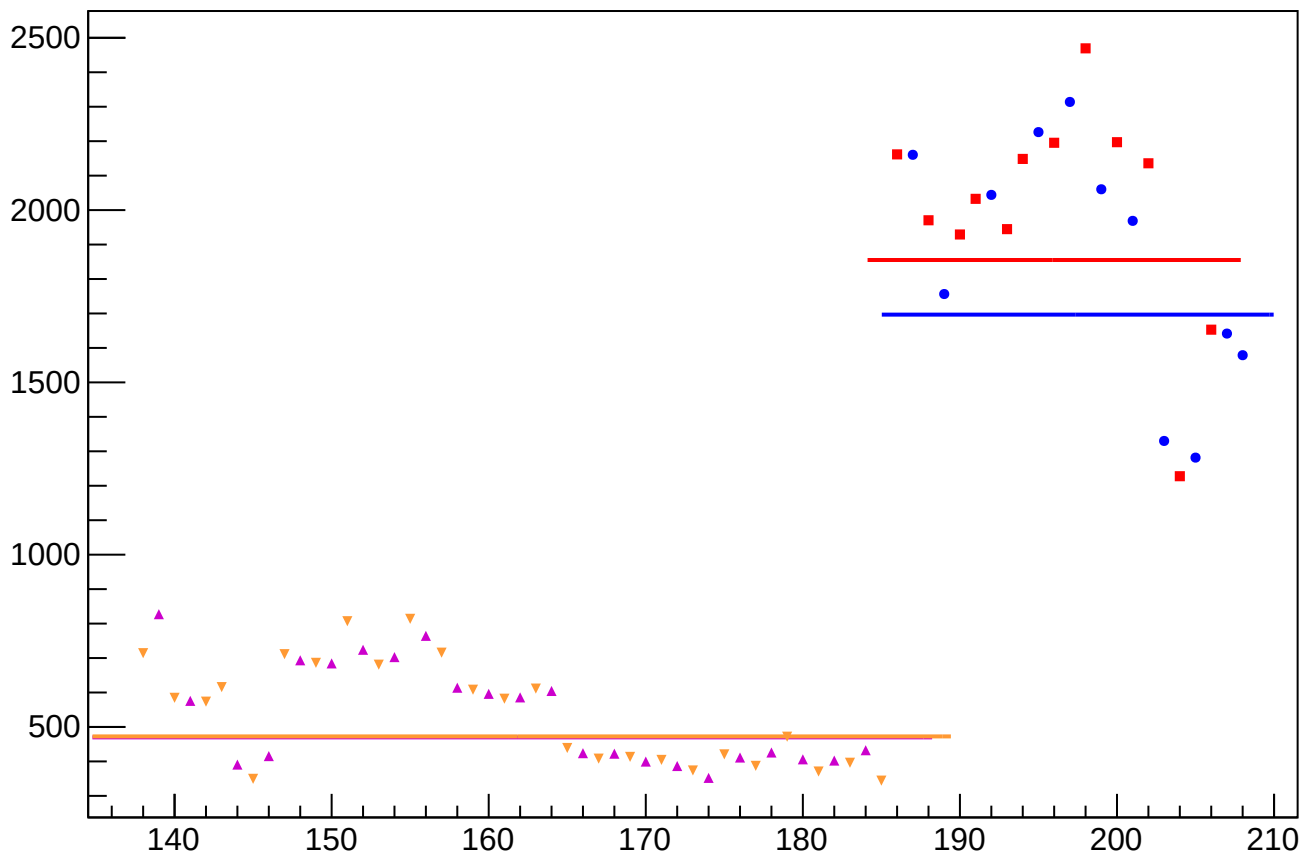
Right: -128.500 ± 457.664 $\chi^2/\text{NDF}: 27.2/22$

In: -41.692 ± 114.492 $\chi^2/\text{NDF}: 48.9/33$

Out: -385.764 ± 112.782 $\chi^2/\text{NDF}: 72.5/36$

All: -216.316 ± 80.347 $\chi^2/\text{NDF}: 126.0/70$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1696.639+/-0.442 χ^2/NDF : 640591.1/10

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1855.166+/-0.475 χ^2/NDF : 656791.0/11

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

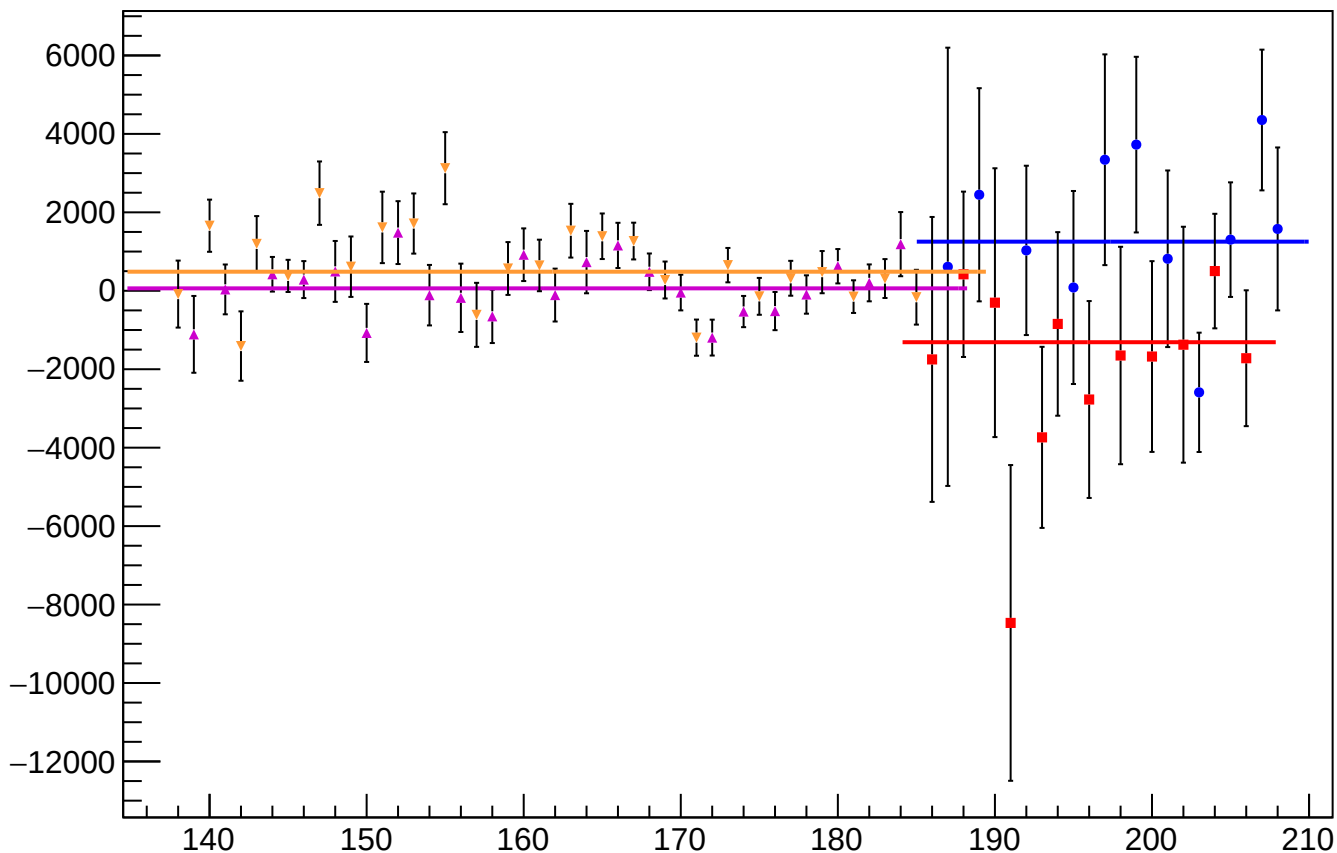
Right: 1770.319+/-0.324 χ^2/NDF : 1357075.4/22

In: 510.856+/-0.081 χ^2/NDF : 10192368.7/33

Out: 511.593+/-0.080 χ^2/NDF : 11409041.7/36

All: 511.230+/-0.057 χ^2/NDF : 21601452.3/70

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1252.548+/-629.213 χ^2/NDF : 11.7/10

Left Out: 486.645+/-115.346 χ^2/NDF : 56.0/24

Right Out: -1311.219+/-675.913 χ^2/NDF : 7.1/11

Left In: 61.775+/-117.449 χ^2/NDF : 31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

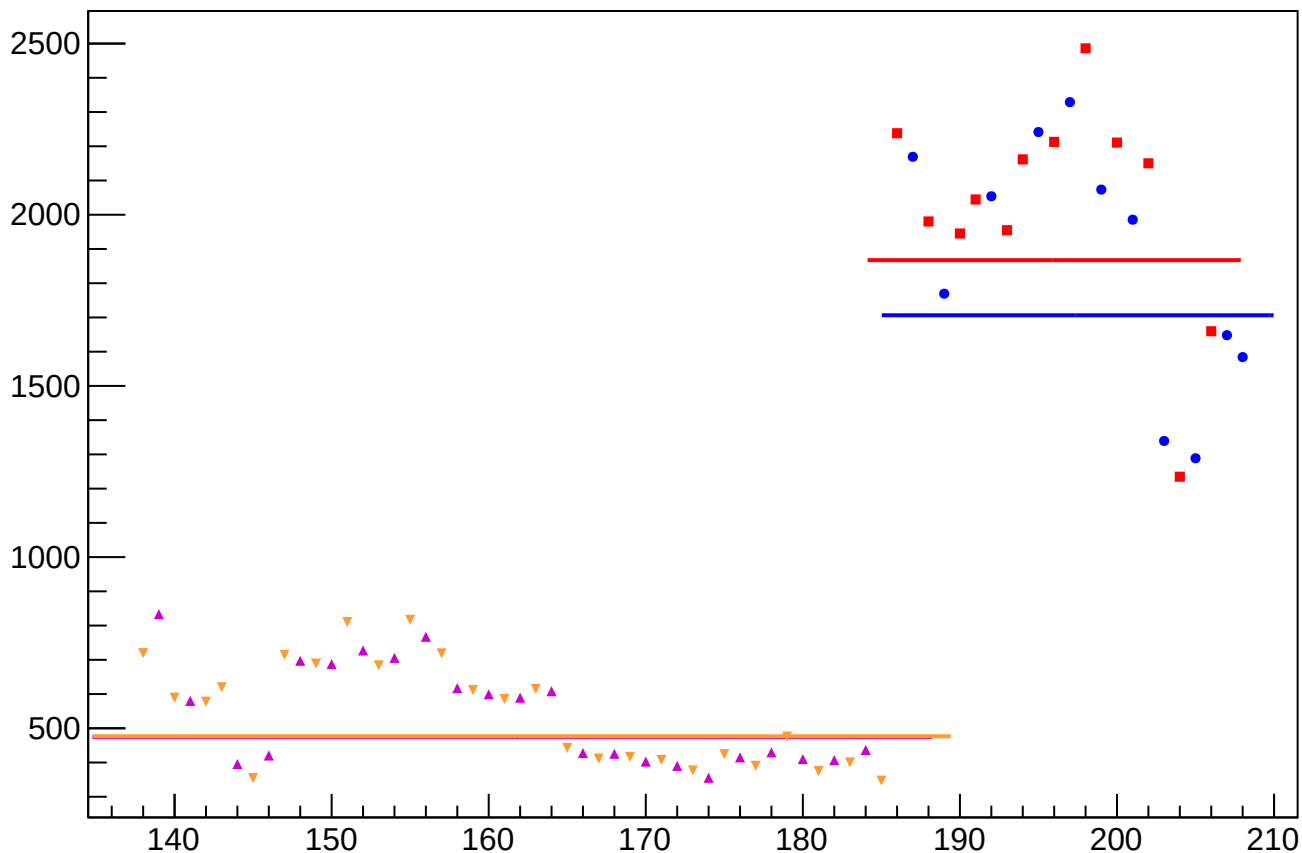
Right: 62.282+/-460.546 χ^2/NDF : 26.5/22

In: 101.867+/-115.455 χ^2/NDF : 46.3/33

Out: 435.769+/-113.702 χ^2/NDF : 70.0/36

All: 271.371+/-81.012 χ^2/NDF : 120.5/70

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1706.408 $\pm$ 0.445 χ^2 /NDF: 642200.2/10

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1867.432 $\pm$ 0.478 χ^2 /NDF: 665197.8/11

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

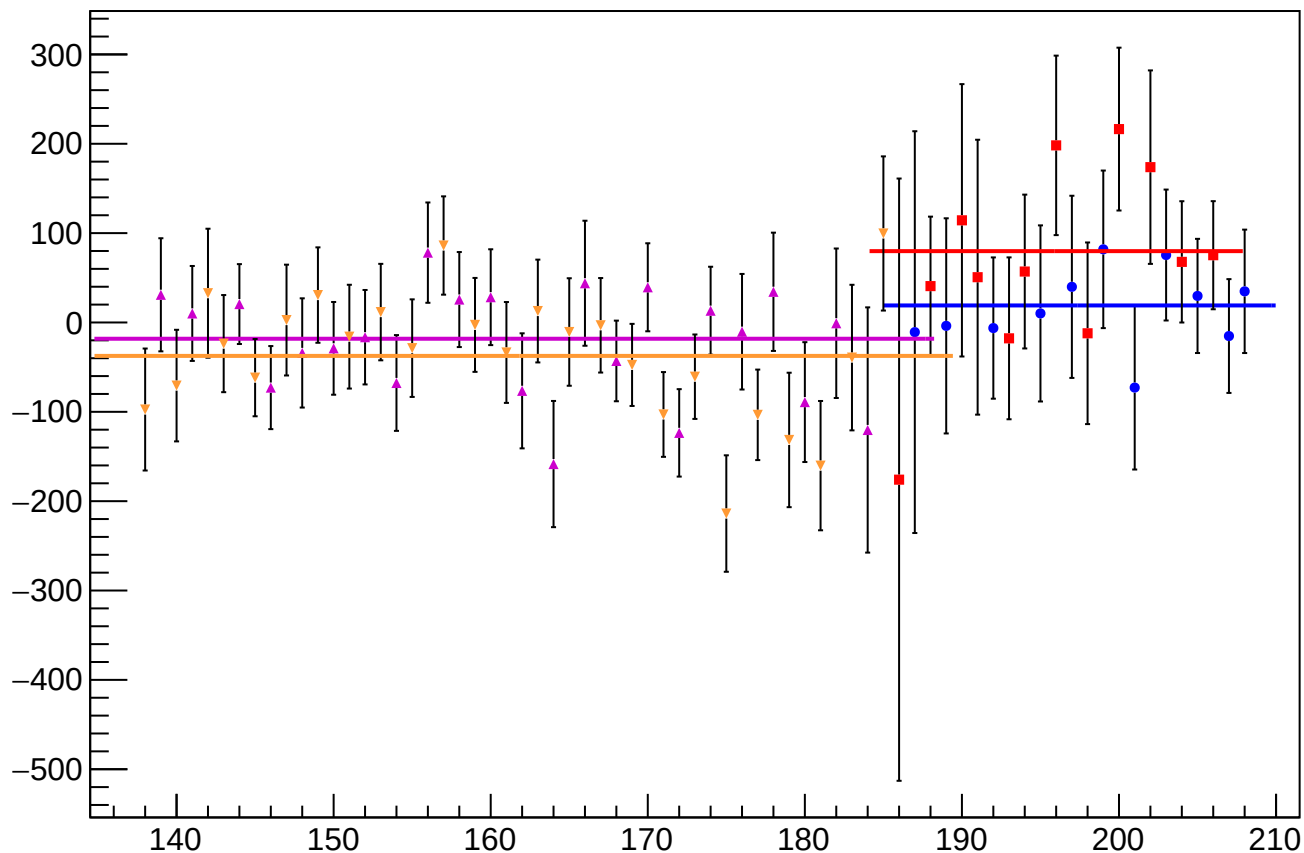
Right: 1781.165 $\pm$ 0.326 χ^2 /NDF: 1368208.9/22

In: 515.478 $\pm$ 0.082 χ^2 /NDF: 10143787.7/33

Out: 516.045 $\pm$ 0.080 χ^2 /NDF: 11365568.2/36

All: 515.766 $\pm$ 0.057 χ^2 /NDF: 21509380.4/70

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 19.057 $\pm$ 25.133 χ^2 /NDF: 2.7/10

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 79.838 $\pm$ 26.646 χ^2 /NDF: 7.4/11

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

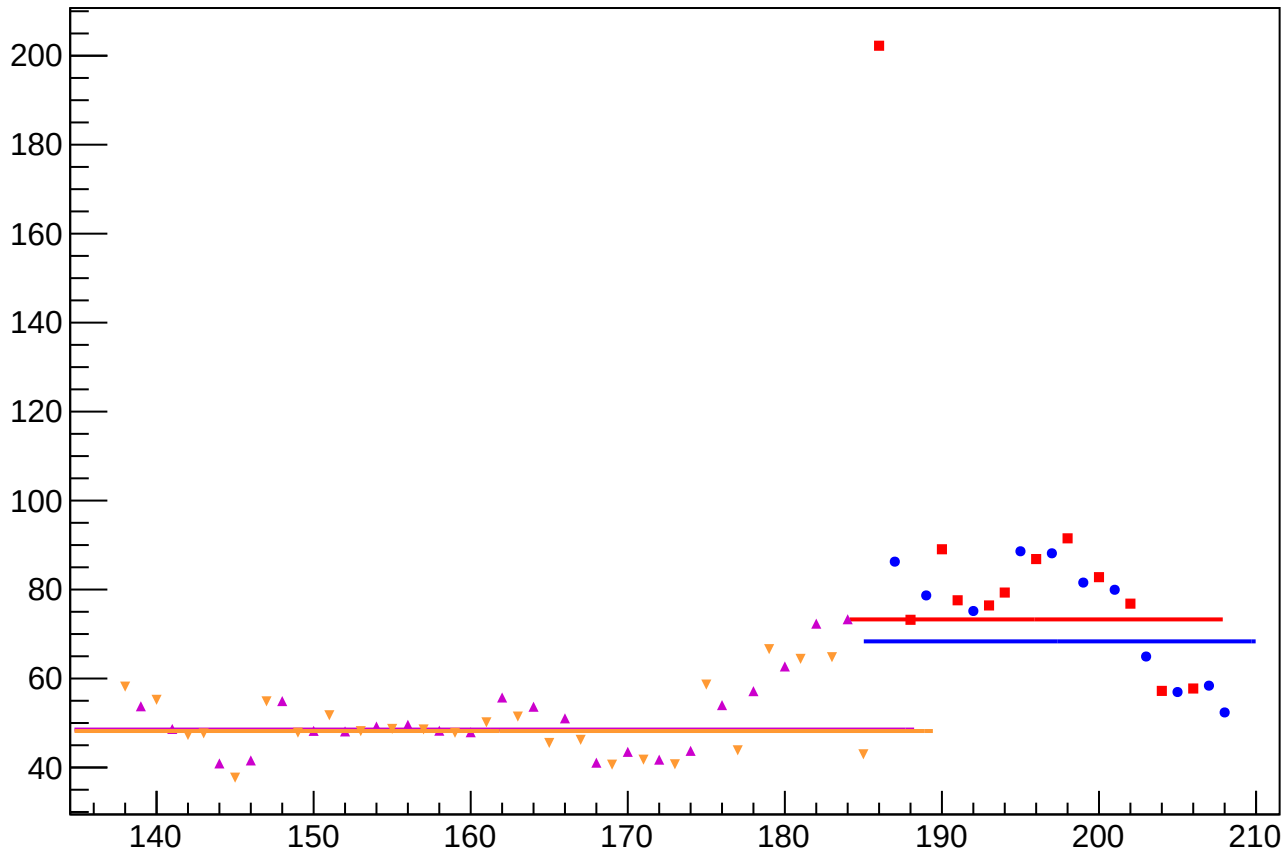
Right: 47.673 $\pm$ 18.284 χ^2 /NDF: 12.8/22

In: -11.491 $\pm$ 10.672 χ^2 /NDF:27.5/33

Out: -19.300 $\pm$ 10.473 χ^2 /NDF:54.2/36

All: -15.469 $\pm$ 7.475 χ^2 /NDF: 82.0/70

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 68.351 ± 0.018 $\chi^2/\text{NDF}: 502950.6/10$

Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$

Right Out: 73.287 ± 0.019 $\chi^2/\text{NDF}: 696676.9/11$

Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$

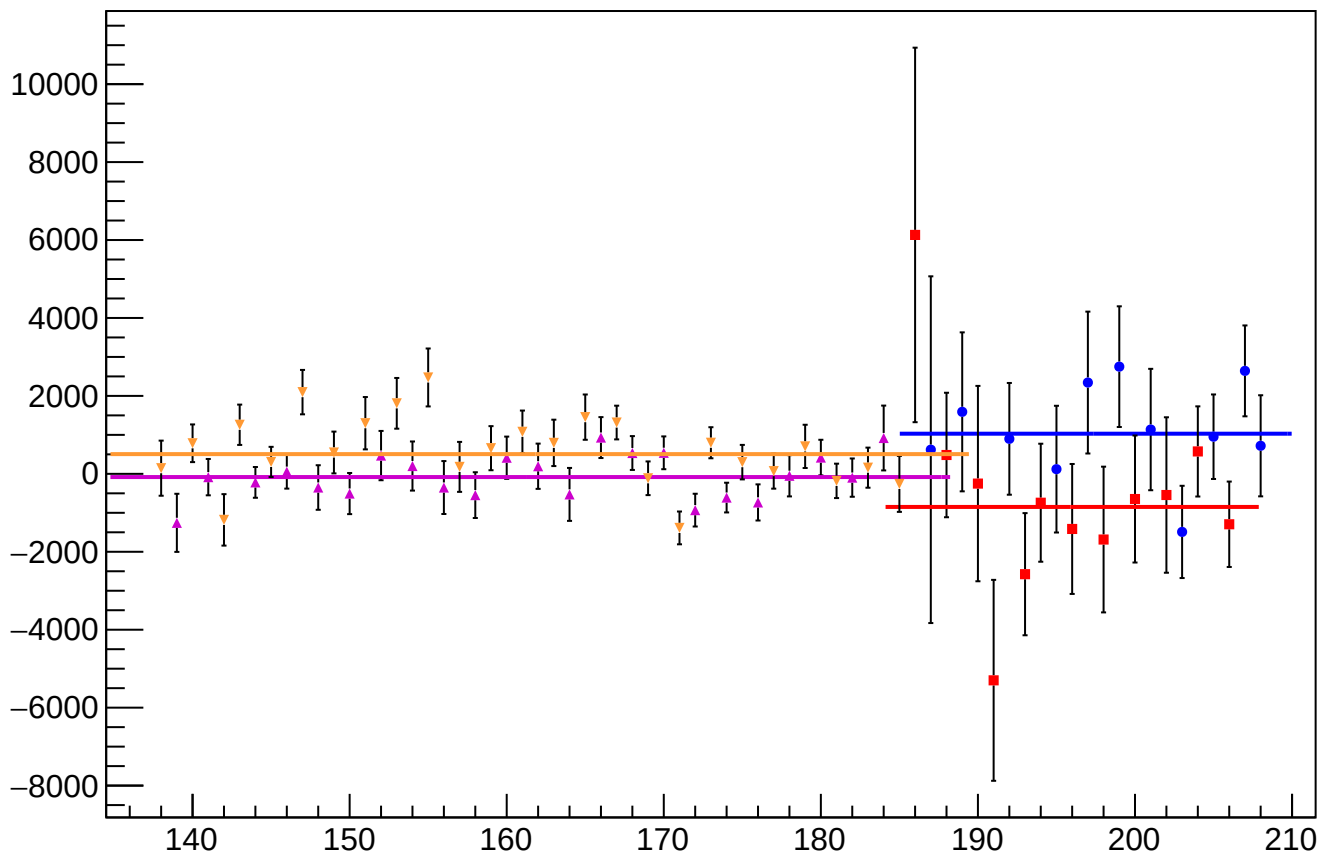
Right: 70.675 ± 0.013 $\chi^2/\text{NDF}: 1235947.9/22$

In: 52.101 ± 0.008 $\chi^2/\text{NDF}: 2198245.4/33$

Out: 52.075 ± 0.007 $\chi^2/\text{NDF}: 2945874.1/36$

All: 52.088 ± 0.005 $\chi^2/\text{NDF}: 5144125.6/70$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1030.022+/-439.358 χ^2/NDF : 8.7/10

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -849.395+/-474.481 χ^2/NDF : 9.1/11

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

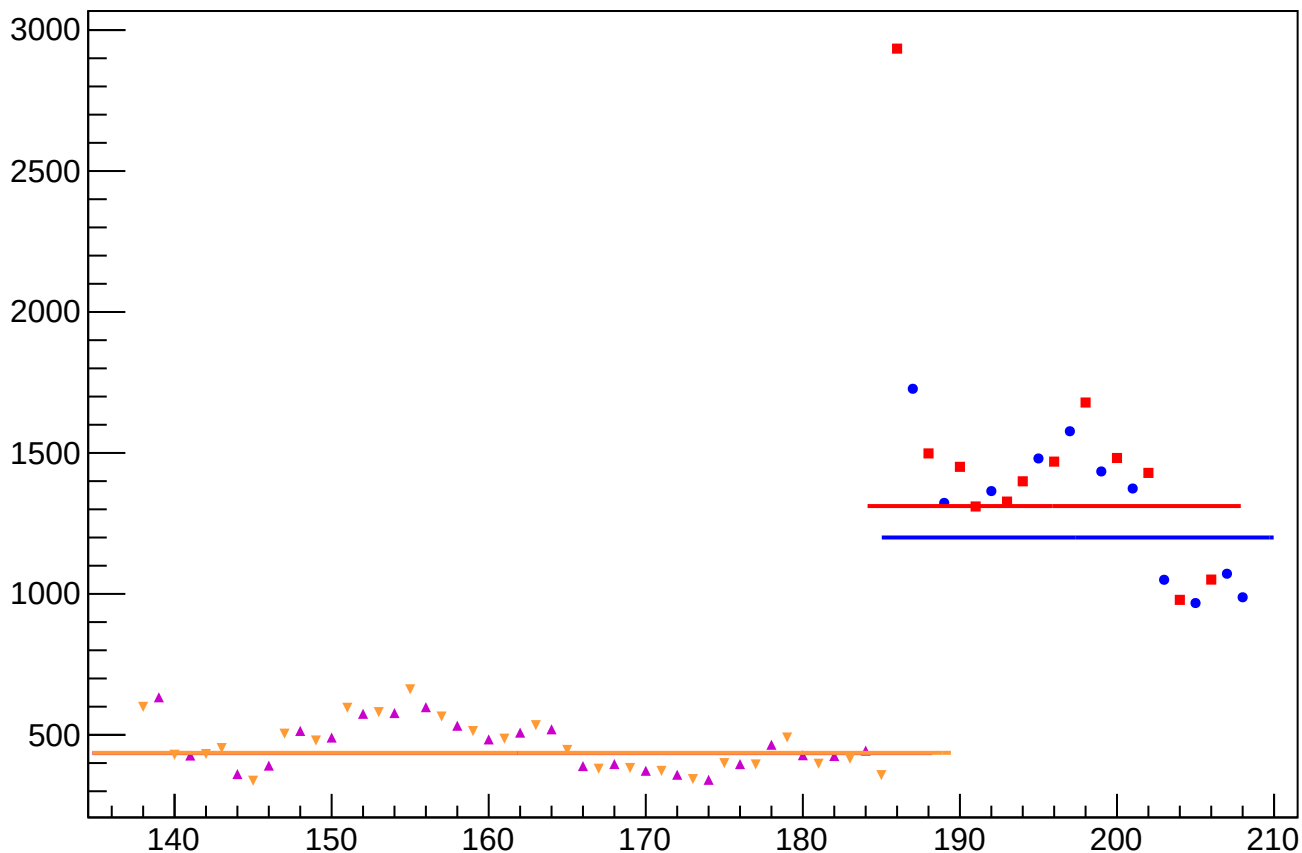
Right: 162.442+/-322.375 χ^2/NDF : 26.2/22

In: -21.301+/-102.984 χ^2/NDF : 40.1/33

Out: 444.669+/-101.092 χ^2/NDF : 82.6/36

All: 216.004+/-72.142 χ^2/NDF : 133.1/70

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1200.108+/-0.311 χ^2/NDF : 479375.7/10

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1311.586+/-0.336 χ^2/NDF : 671016.2/11

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

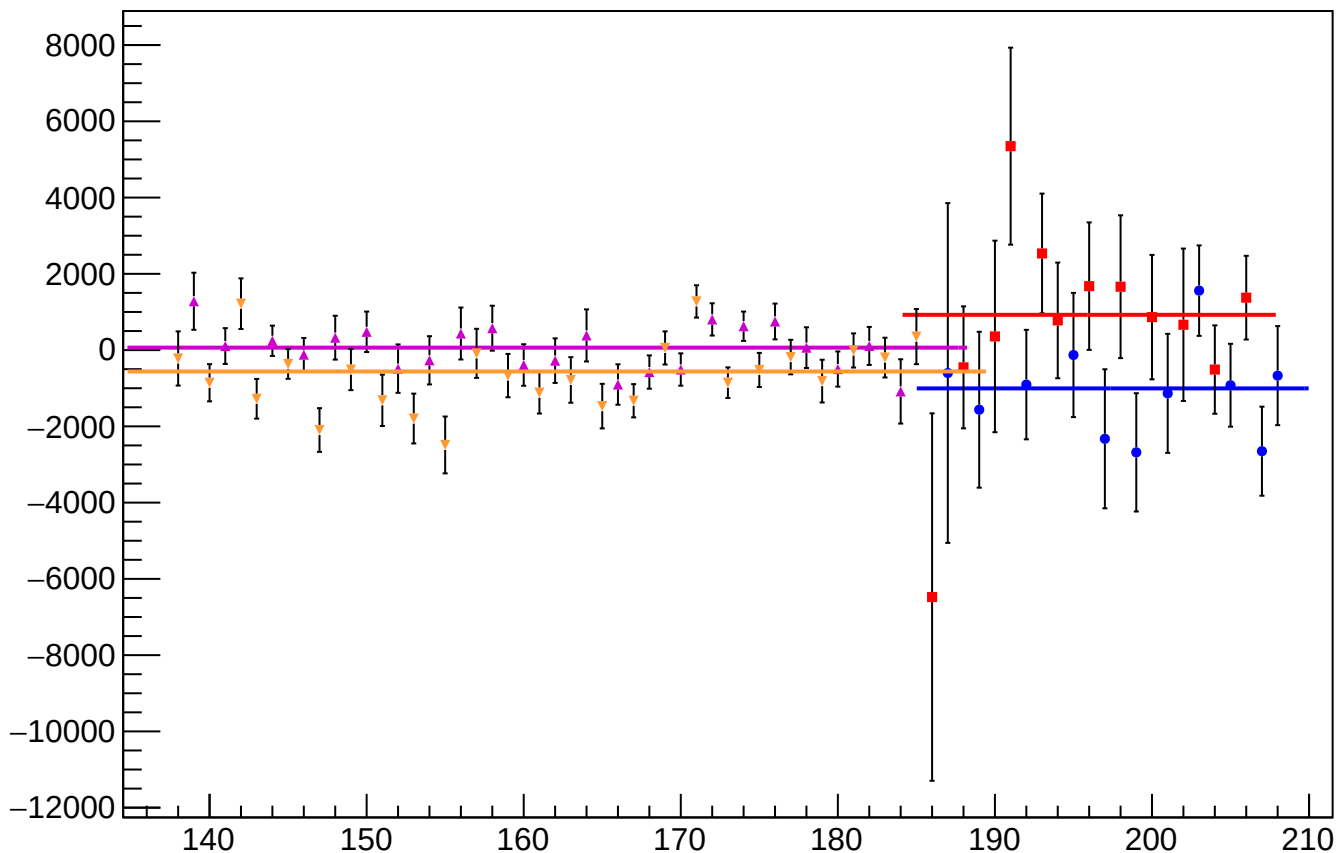
Right: 1251.568+/-0.228 χ^2/NDF : 1209828.7/22

In: 477.296+/-0.073 χ^2/NDF : 7234854.3/33

Out: 476.034+/-0.071 χ^2/NDF : 8347391.3/36

All: 476.653+/-0.051 χ^2/NDF : 15582398.7/70

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1004.605 ± 440.126 $\chi^2/\text{NDF}: 8.8/10$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 925.280 ± 475.296 $\chi^2/\text{NDF}: 9.2/11$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

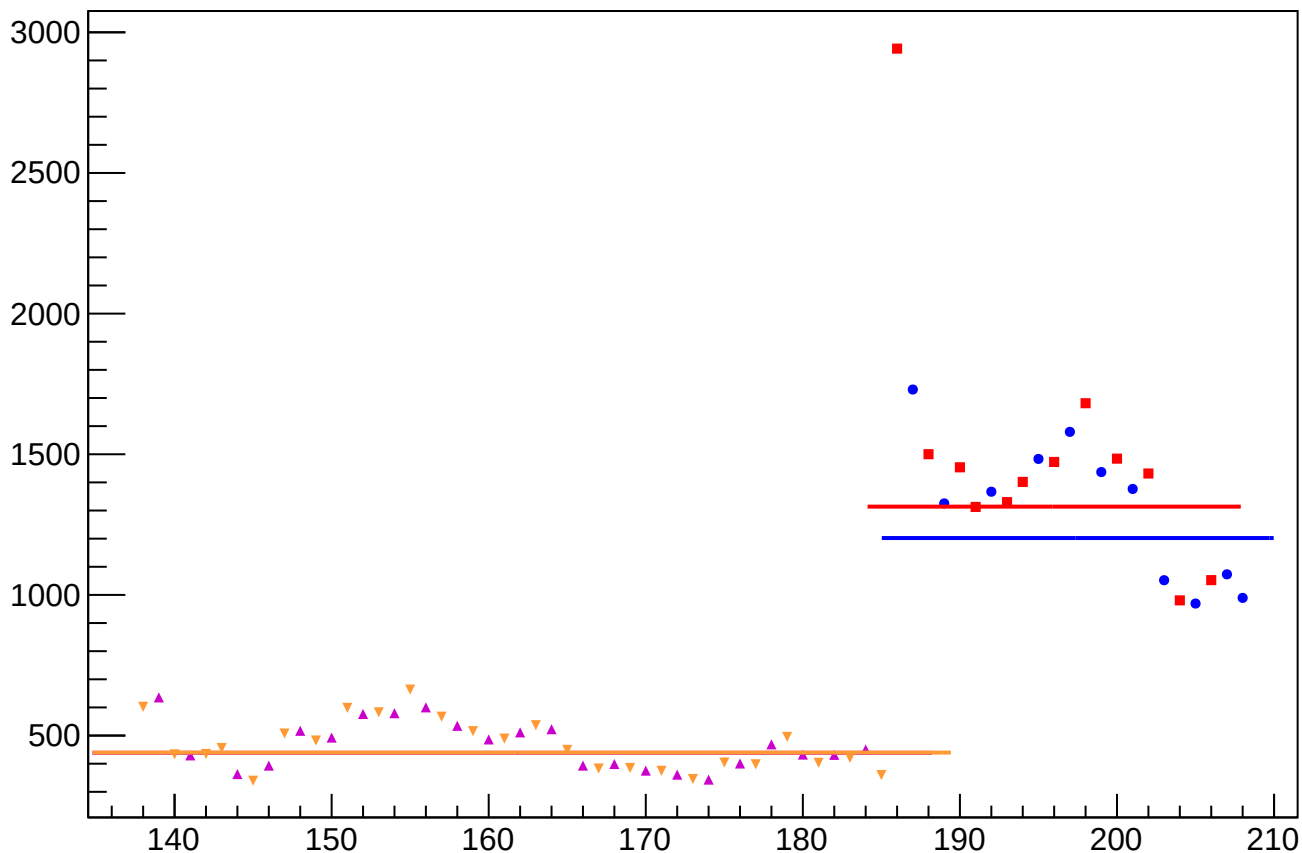
Right: -113.698 ± 322.935 $\chi^2/\text{NDF}: 26.9/22$

In: 5.235 ± 103.703 $\chi^2/\text{NDF}: 39.6/33$

Out: -492.531 ± 101.789 $\chi^2/\text{NDF}: 80.3/36$

All: -248.283 ± 72.643 $\chi^2/\text{NDF}: 131.6/70$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1202.206 $\pm$ 0.311 χ^2 /NDF: 479548.4/10

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1313.830 $\pm$ 0.336 χ^2 /NDF: 671301.0/11

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

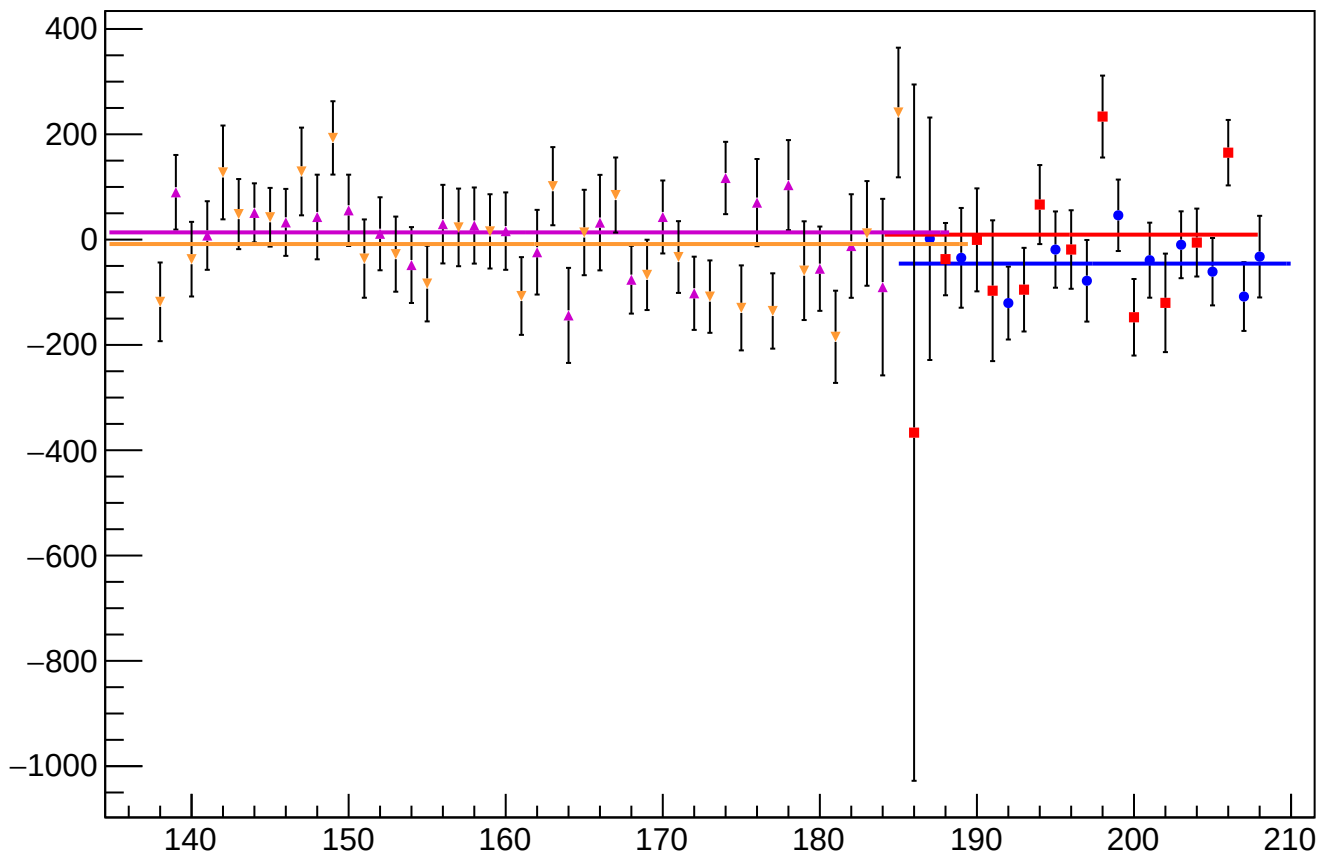
Right: 1253.736 $\pm$ 0.228 χ^2 /NDF: 1210236.5/22

In: 480.944 $\pm$ 0.073 χ^2 /NDF: 7179413.0/33

Out: 479.626 $\pm$ 0.072 χ^2 /NDF: 8291726.0/36

All: 480.273 $\pm$ 0.051 χ^2 /NDF: 15471303.5/70

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -45.571 ± 22.341 χ^2/NDF : 4.7/10

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 9.428 ± 23.195 χ^2/NDF : 25.1/11

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

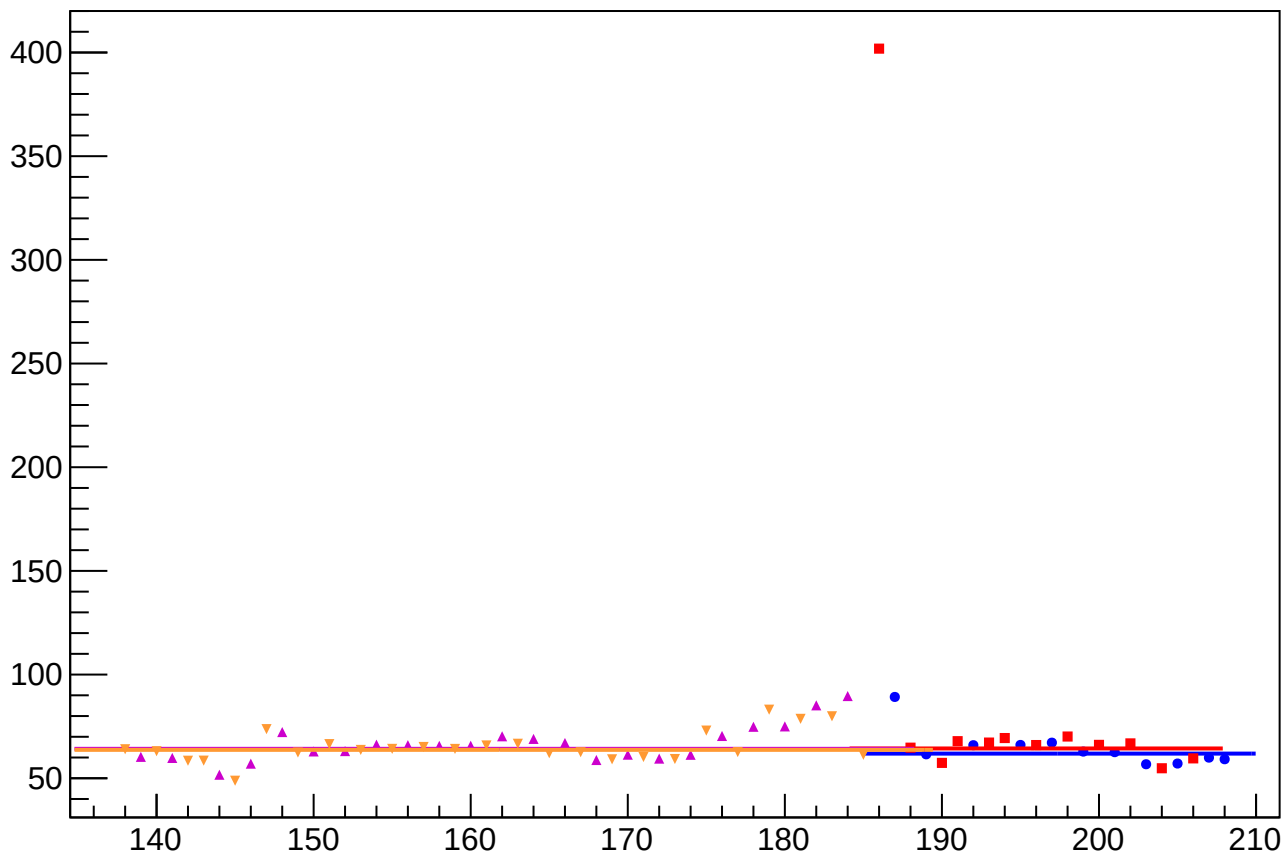
Right: -19.103 ± 16.091 χ^2/NDF : 32.7/22

In: -5.507 ± 12.723 χ^2/NDF : 25.7/33

Out: -3.186 ± 12.557 χ^2/NDF : 67.1/36

All: -4.331 ± 8.937 χ^2/NDF : 92.8/70

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.886 ± 0.016 $\chi^2/\text{NDF}: 80055.3/10$

Left Out: 63.696 ± 0.011 $\chi^2/\text{NDF}: 448439.3/24$

Right Out: 64.361 ± 0.016 $\chi^2/\text{NDF}: 614276.9/11$

Left In: 64.189 ± 0.011 $\chi^2/\text{NDF}: 429670.3/22$

Left: 63.934 ± 0.008 $\chi^2/\text{NDF}: 879161.0/47$

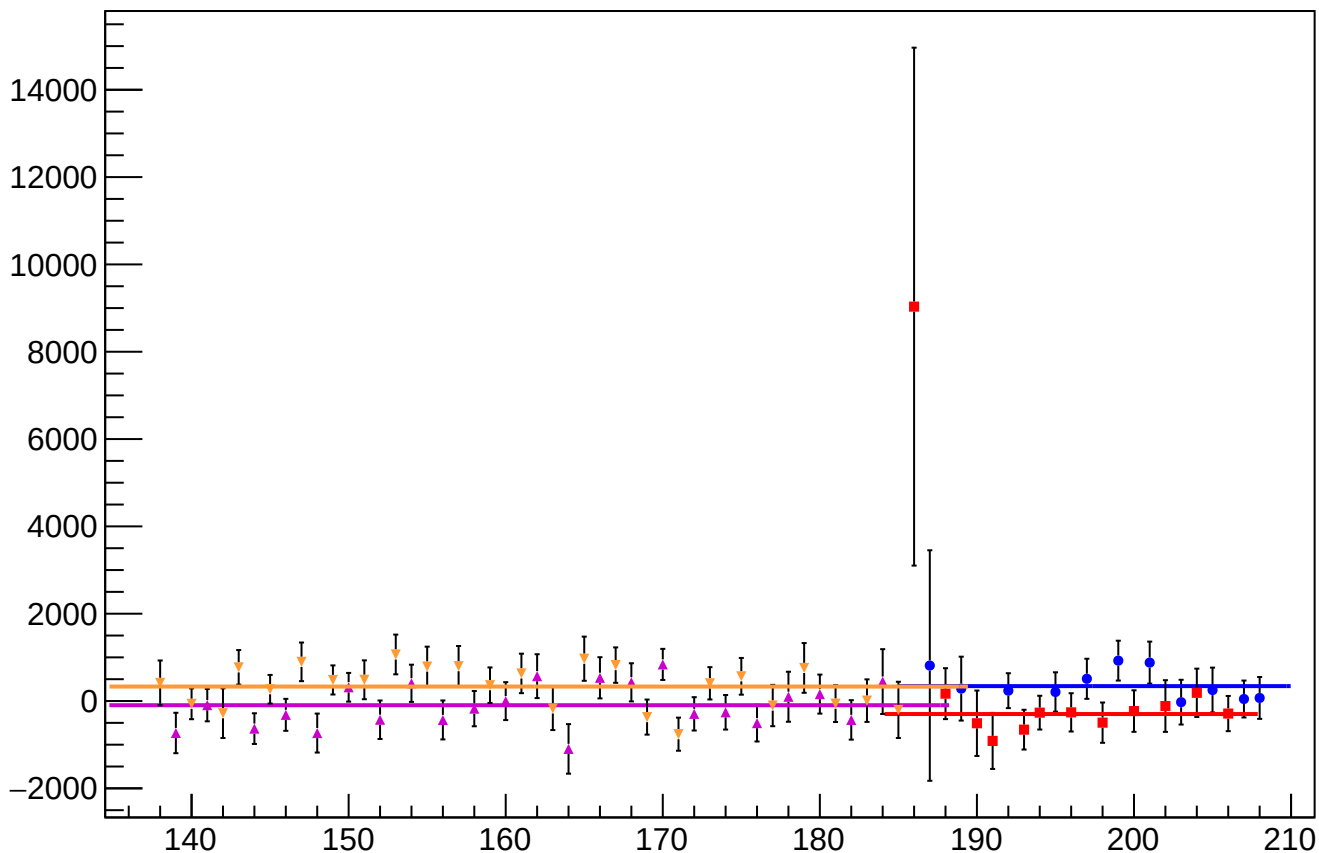
Right: 63.077 ± 0.011 $\chi^2/\text{NDF}: 706148.8/22$

In: 63.442 ± 0.009 $\chi^2/\text{NDF}: 524091.8/33$

Out: 63.891 ± 0.009 $\chi^2/\text{NDF}: 1063878.6/36$

All: 63.669 ± 0.006 $\chi^2/\text{NDF}: 1589231.2/70$

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 341.333+/-149.763 χ^2/NDF : 4.6/10

Left Out: 331.739+/-86.071 χ^2/NDF :29.9/24

Right Out: -297.953+/-148.612 χ^2/NDF : 5.8/11

Left In: -95.910+/-88.656 χ^2/NDF :28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

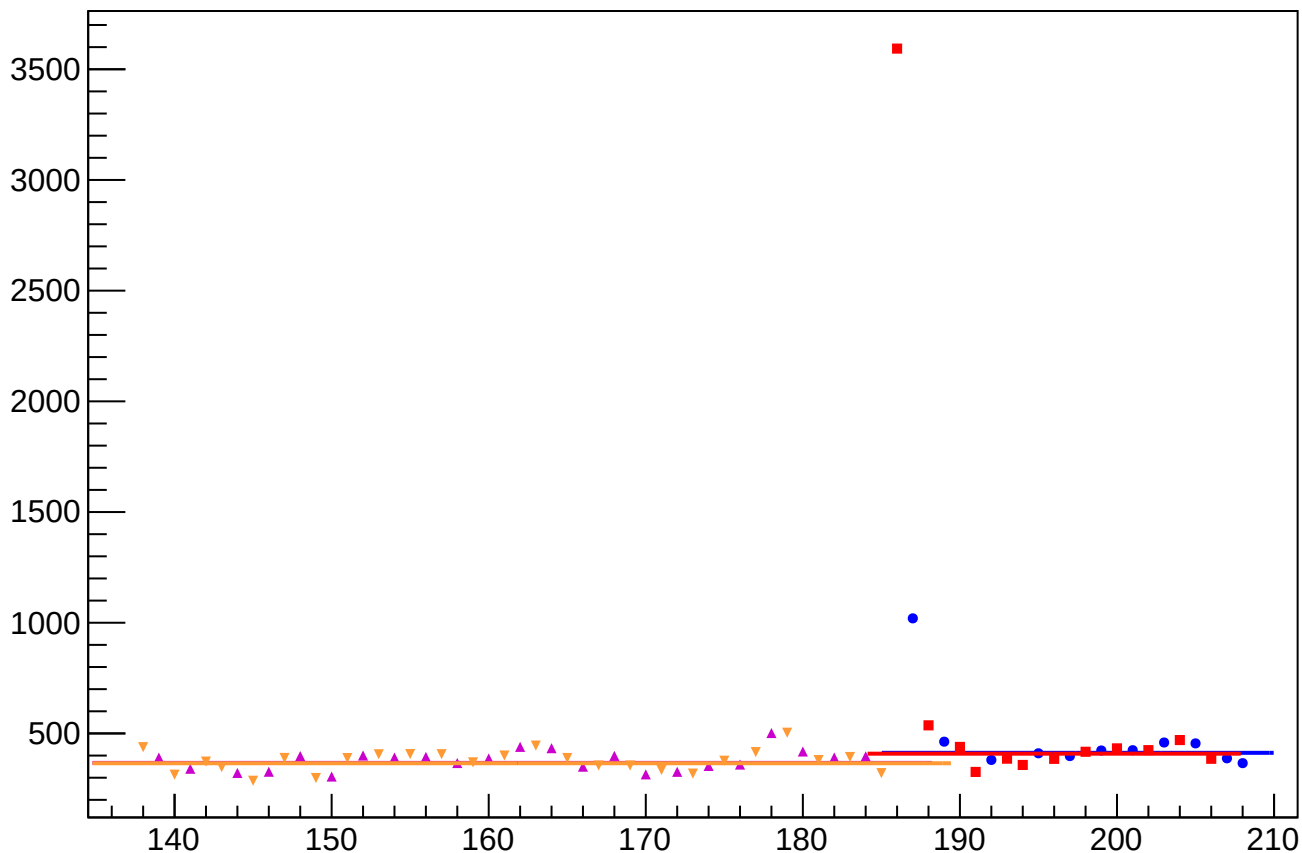
Right: 19.222+/-105.489 χ^2/NDF : 19.6/22

In: 17.553+/-76.291 χ^2/NDF :39.6/33

Out: 173.573+/-74.481 χ^2/NDF :49.1/36

All: 97.435+/-53.294 χ^2/NDF : 90.8/70

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 412.417 $\pm$ 0.106 χ^2 /NDF: 188733.3/10

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 408.579 $\pm$ 0.105 χ^2 /NDF: 793121.8/11

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

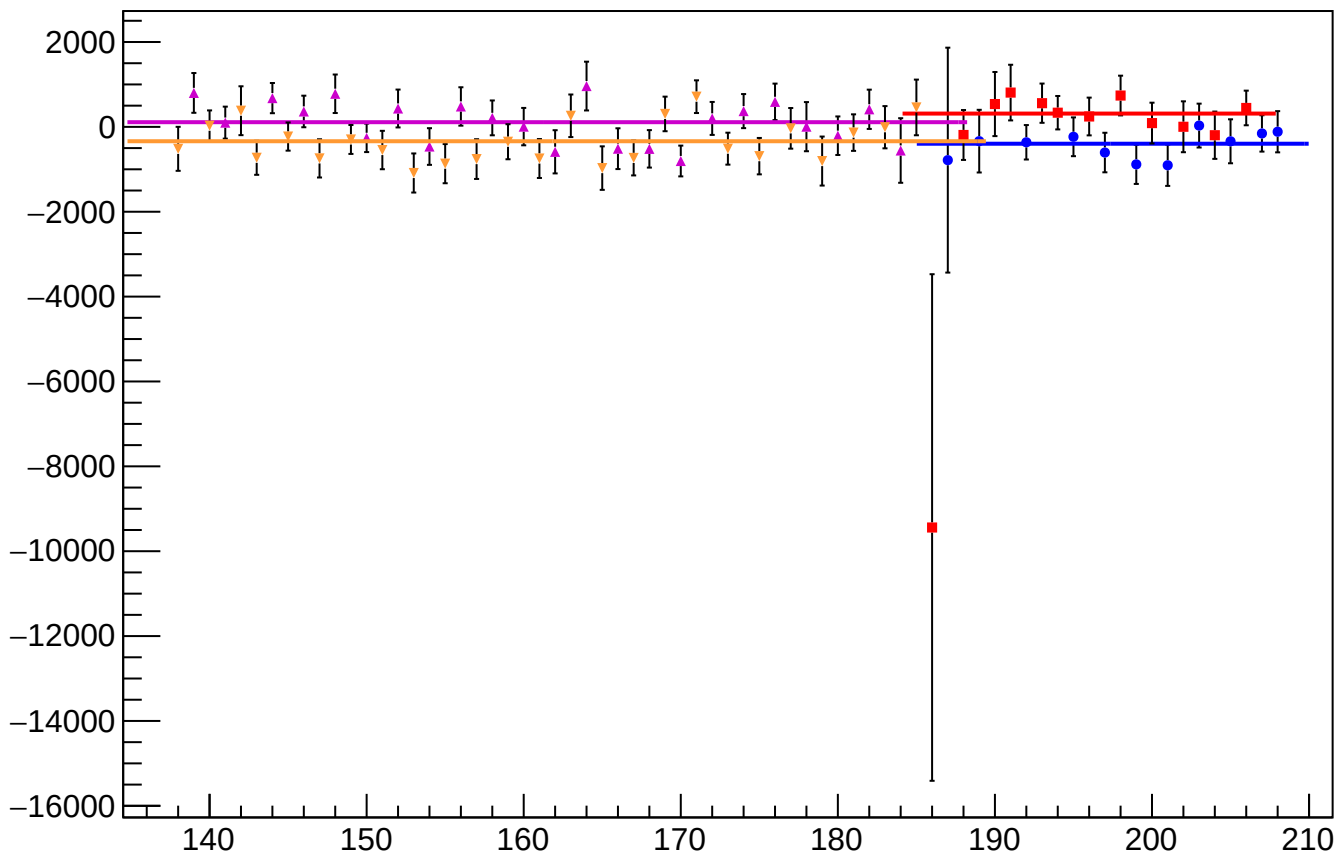
Right: 410.483 $\pm$ 0.075 χ^2 /NDF: 982517.2/22

In: 378.730 $\pm$ 0.054 χ^2 /NDF: 803471.7/33

Out: 376.212 $\pm$ 0.053 χ^2 /NDF: 1538264.7/36

All: 377.441 $\pm$ 0.038 χ^2 /NDF: 2342851.6/70

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -397.168 ± 151.573 χ^2/NDF : 3.9/10

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 313.288 ± 150.653 χ^2/NDF : 6.6/11

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

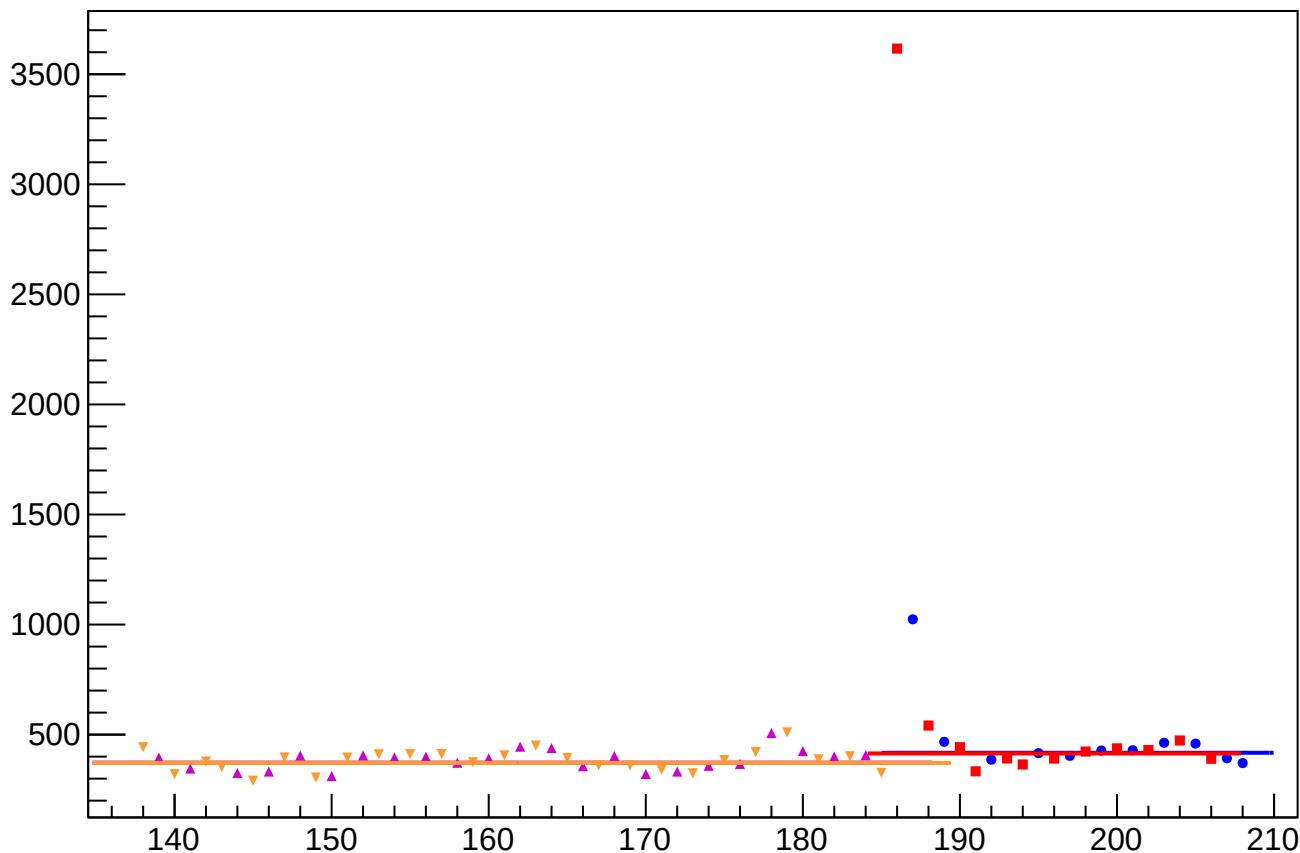
Right: -39.778 ± 106.852 χ^2/NDF : 21.6/22

In: -22.131 ± 77.439 χ^2/NDF : 41.4/33

Out: -174.252 ± 75.632 χ^2/NDF : 48.8/36

All: -99.988 ± 54.107 χ^2/NDF : 92.2/70

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 417.524 $\pm$ 0.107 χ^2 /NDF: 183377.3/10

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 414.414 $\pm$ 0.107 χ^2 /NDF: 780593.4/11

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

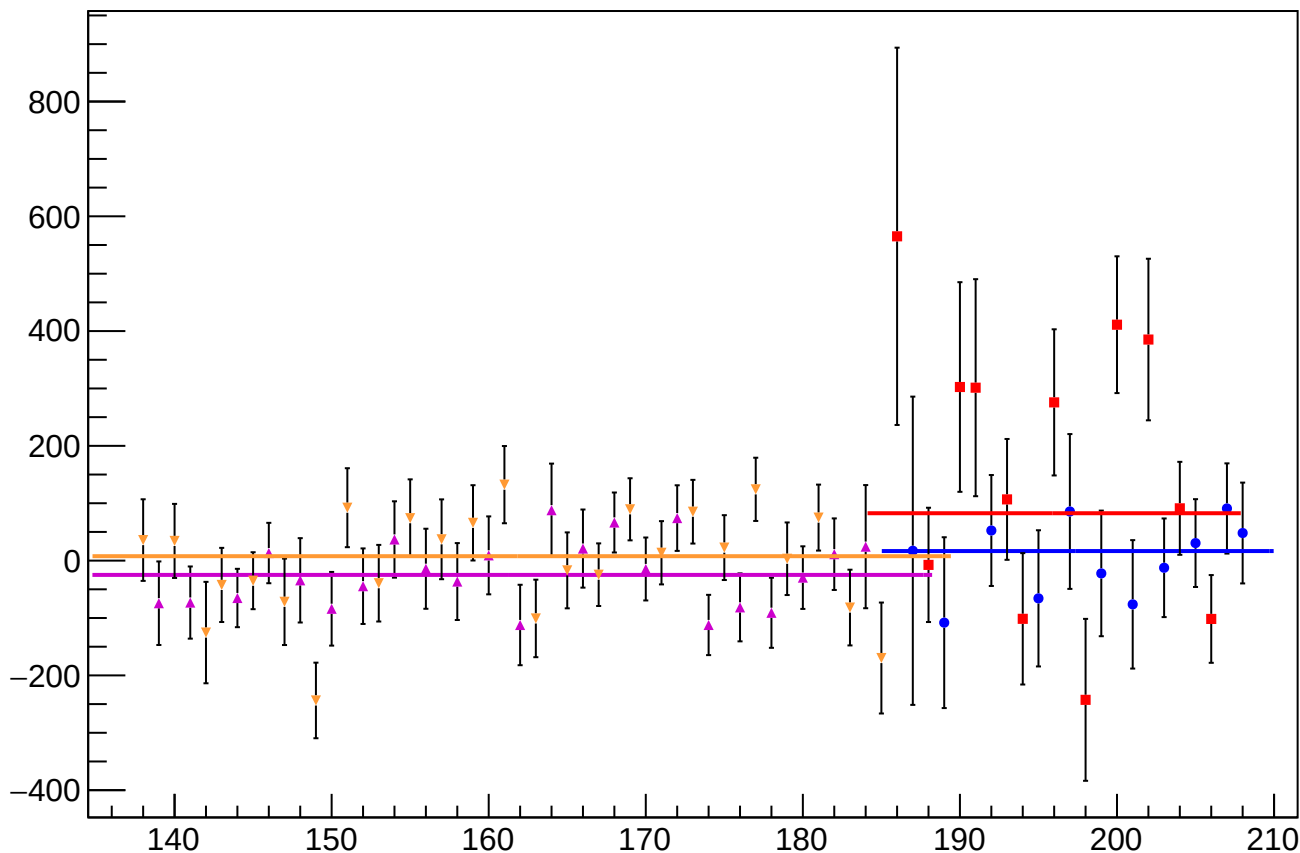
Right: 415.960 $\pm$ 0.076 χ^2 /NDF: 964394.0/22

In: 384.576 $\pm$ 0.055 χ^2 /NDF: 778601.0/33

Out: 382.208 $\pm$ 0.053 χ^2 /NDF: 1506865.4/36

All: 383.364 $\pm$ 0.038 χ^2 /NDF: 2286423.4/70

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 16.667 ± 30.817 $\chi^2/\text{NDF}: 3.6/10$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 82.585 ± 33.505 $\chi^2/\text{NDF}: 34.0/11$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

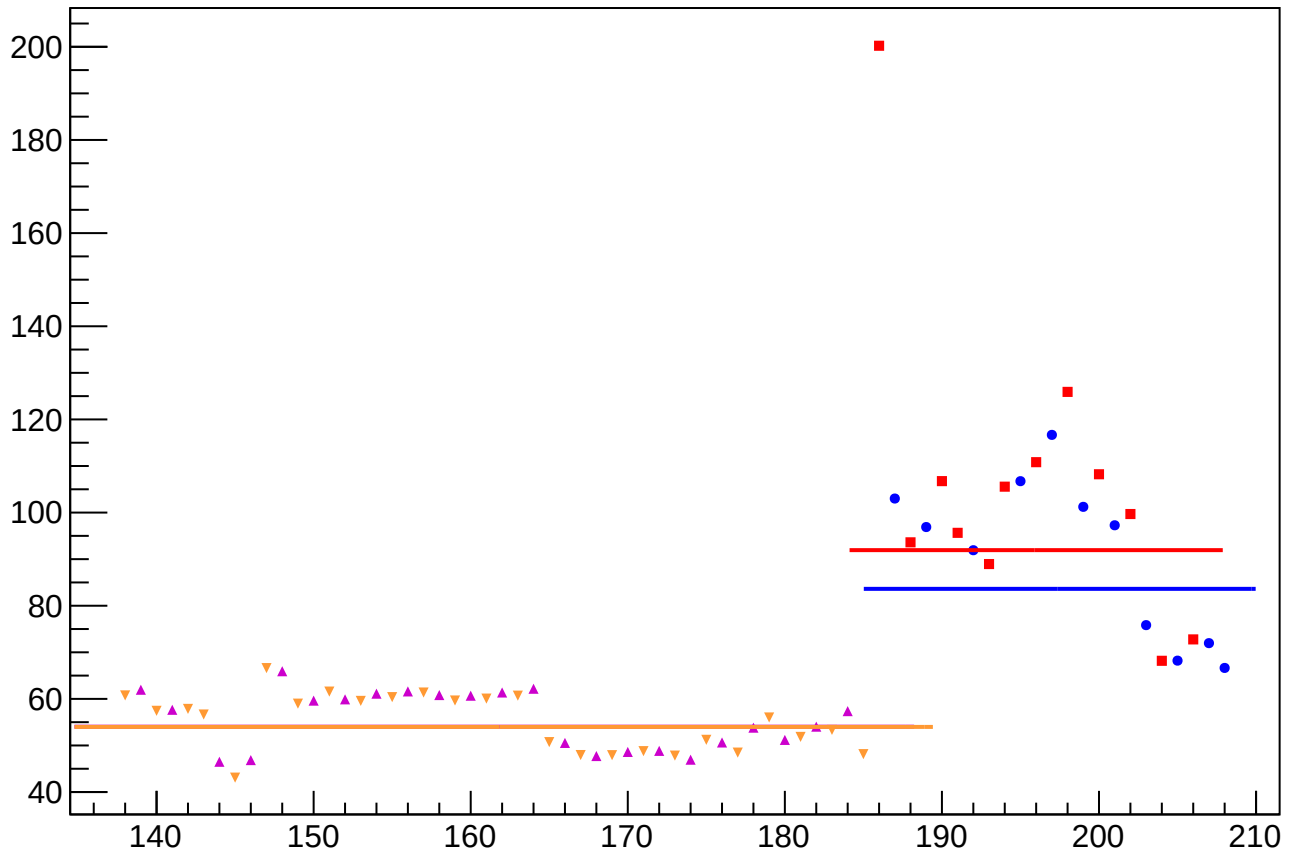
Right: 46.876 ± 22.681 $\chi^2/\text{NDF}: 39.7/22$

In: -18.586 ± 12.000 $\chi^2/\text{NDF}: 24.8/33$

Out: 17.071 ± 11.839 $\chi^2/\text{NDF}: 83.8/36$

All: -0.517 ± 8.428 $\chi^2/\text{NDF}: 113.1/70$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 83.625+/-0.022 χ^2/NDF : 534823.9/10

Left Out: 53.984+/-0.009 χ^2/NDF : 458972.1/24

Right Out: 91.936+/-0.024 χ^2/NDF : 762610.2/11

Left In: 54.028+/-0.009 χ^2/NDF : 443819.5/22

Left: 54.005+/-0.006 χ^2/NDF : 902803.3/47

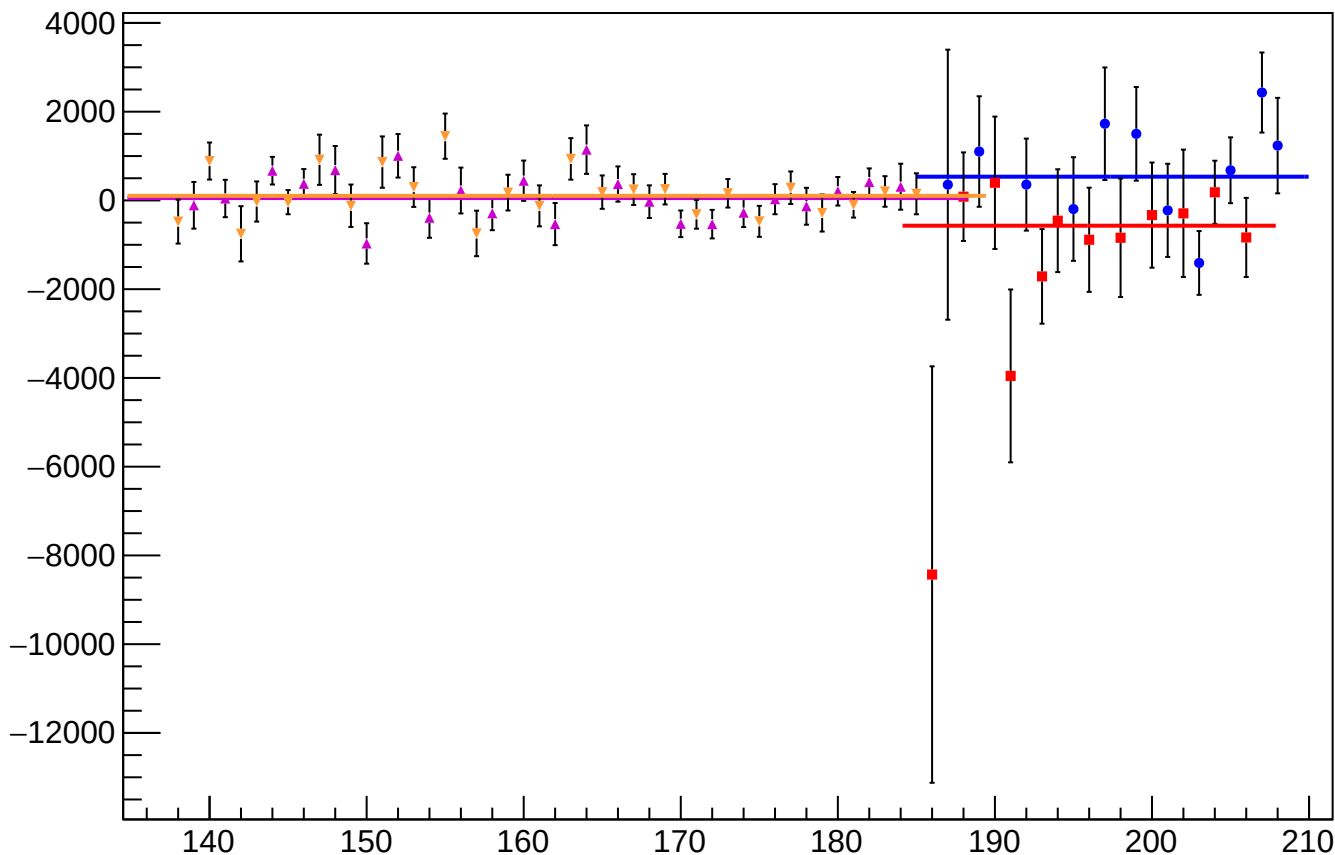
Right: 87.433+/-0.016 χ^2/NDF : 1364100.7/22

In: 58.516+/-0.008 χ^2/NDF : 2543716.7/33

Out: 58.722+/-0.008 χ^2/NDF : 3467343.2/36

All: 58.621+/-0.006 χ^2/NDF : 6011360.6/70

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 534.993 ± 305.886 χ^2/NDF : 15.1/10

Left Out: 103.768 ± 79.344 χ^2/NDF : 31.0/24

Right Out: -569.550 ± 331.403 χ^2/NDF : 9.2/11

Left In: 53.493 ± 81.201 χ^2/NDF : 34.1/22

Left: 79.212 ± 56.750 χ^2/NDF : 65.3/47

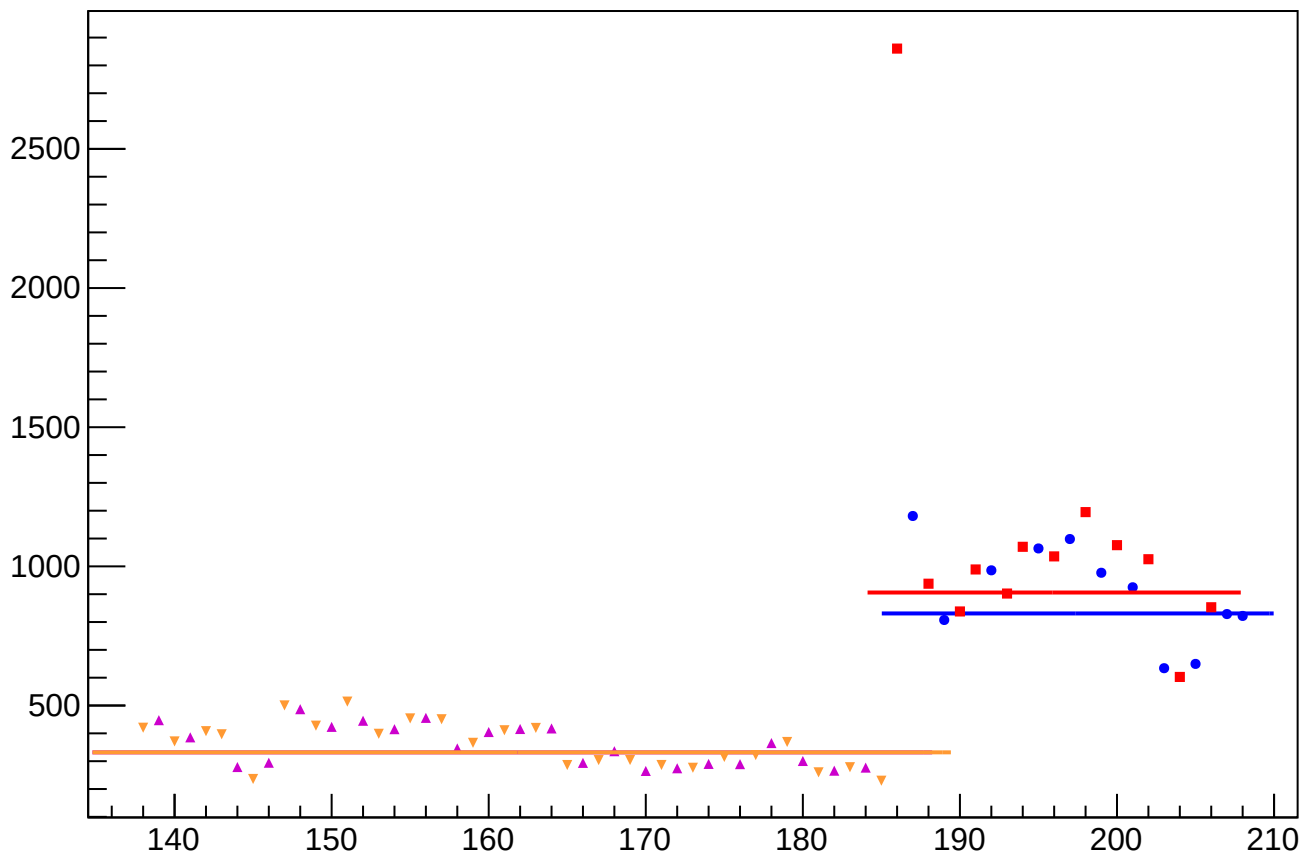
Right: 26.877 ± 224.774 χ^2/NDF : 30.3/22

In: 85.191 ± 78.483 χ^2/NDF : 51.5/33

Out: 67.264 ± 77.163 χ^2/NDF : 44.1/36

All: 76.076 ± 55.023 χ^2/NDF : 95.6/70

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 830.858+/-0.216 χ^2/NDF : 564442.7/10

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 906.044+/-0.234 χ^2/NDF : 940941.9/11

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

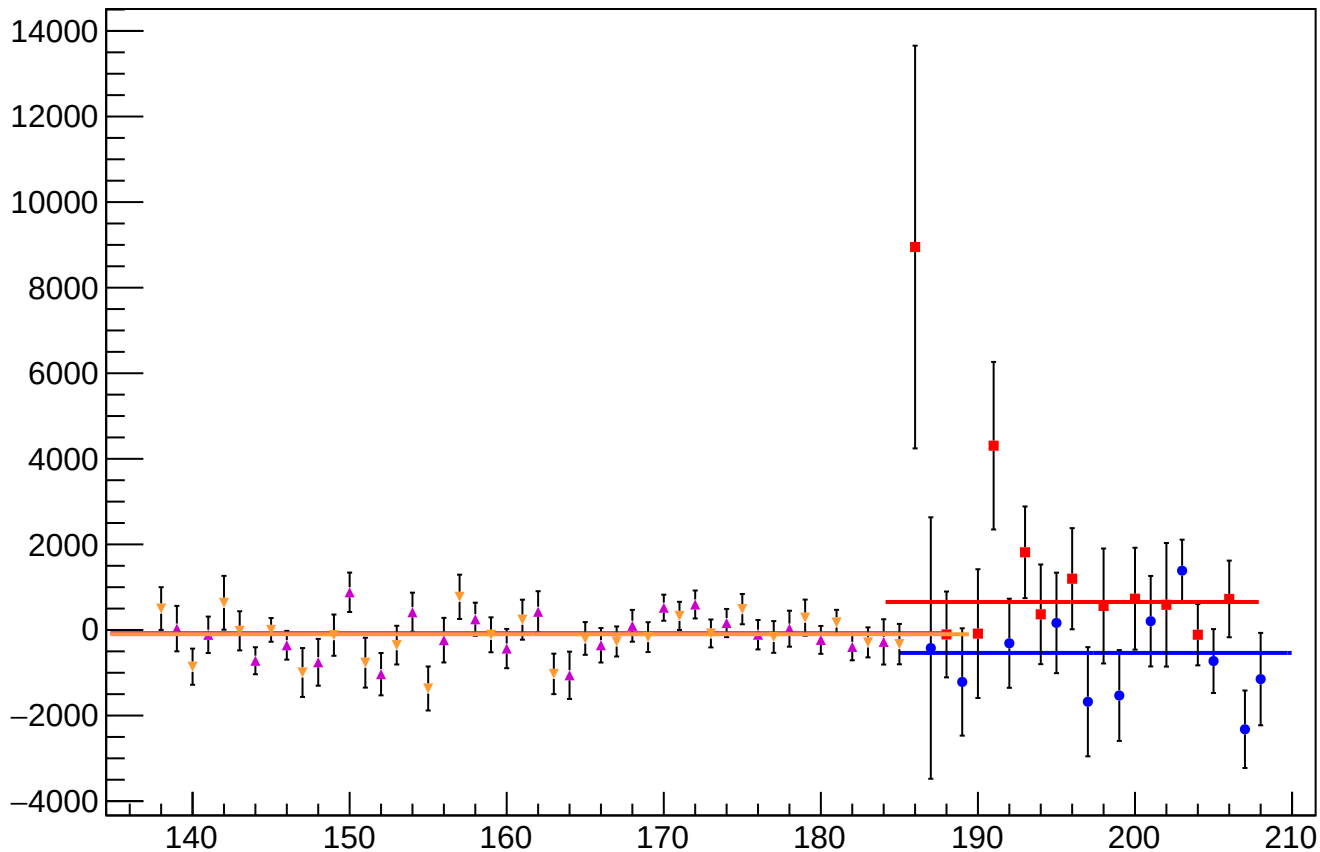
Right: 865.445+/-0.159 χ^2/NDF : 1560971.0/22

In: 364.528+/-0.055 χ^2/NDF : 6843536.1/33

Out: 362.904+/-0.055 χ^2/NDF : 8332662.8/36

All: 363.702+/-0.039 χ^2/NDF : 15176634.4/70

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -536.167+/-307.672 χ^2/NDF : 14.2/10

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 654.513+/-333.295 χ^2/NDF : 10.0/11

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

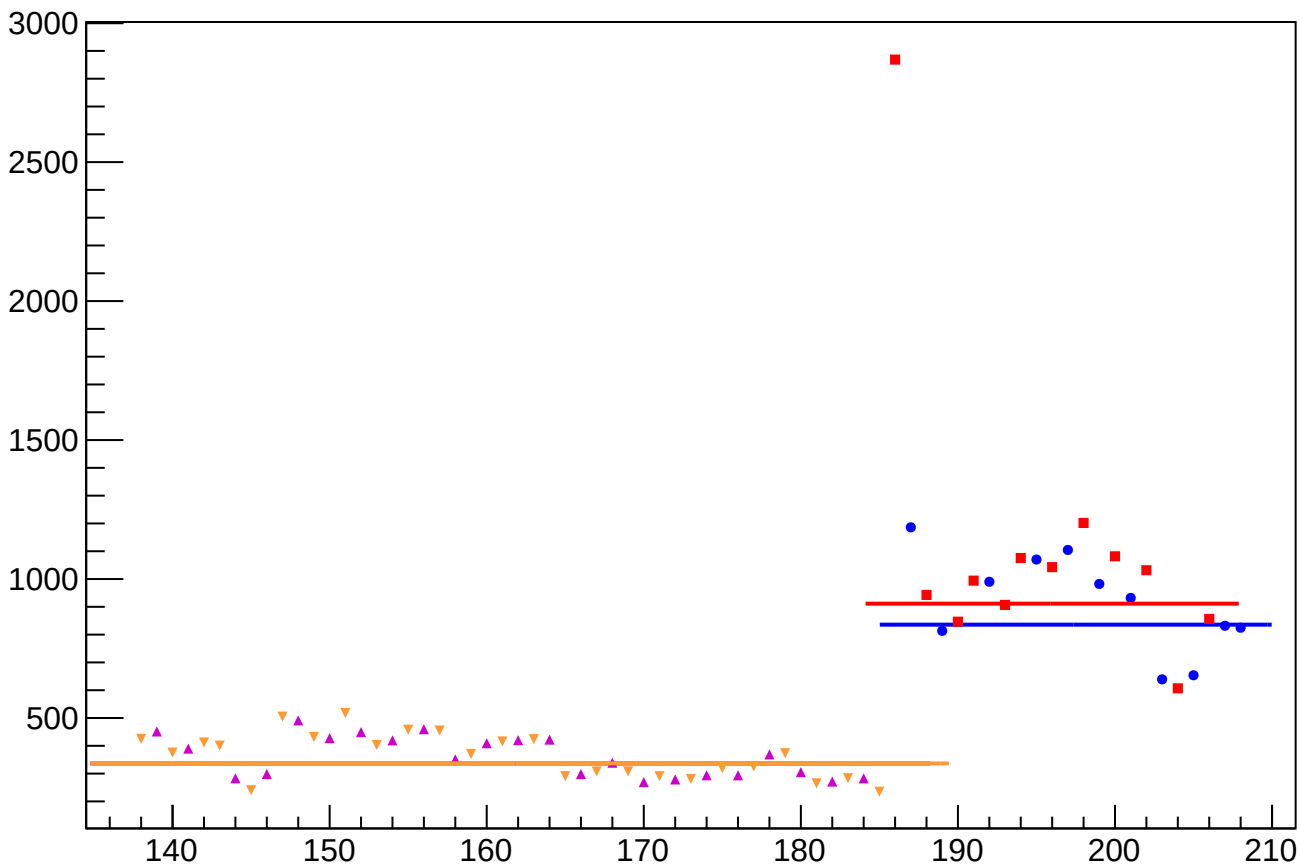
Right: 11.652+/-226.073 χ^2/NDF : 31.1/22

In: -106.348+/-79.522 χ^2/NDF :48.4/33

Out: -58.278+/-78.184 χ^2/NDF :45.5/36

All: -81.905+/-55.751 χ^2/NDF : 94.1/70

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 835.850 ± 0.218 $\chi^2/\text{NDF}: 560747.2/10$

Left Out: 336.557 ± 0.057 $\chi^2/\text{NDF}: 1665919.4/24$

Right Out: 911.372 ± 0.236 $\chi^2/\text{NDF}: 937507.5/11$

Left In: 336.439 ± 0.058 $\chi^2/\text{NDF}: 1269066.3/22$

Left: 336.500 ± 0.041 $\chi^2/\text{NDF}: 2934987.9/47$

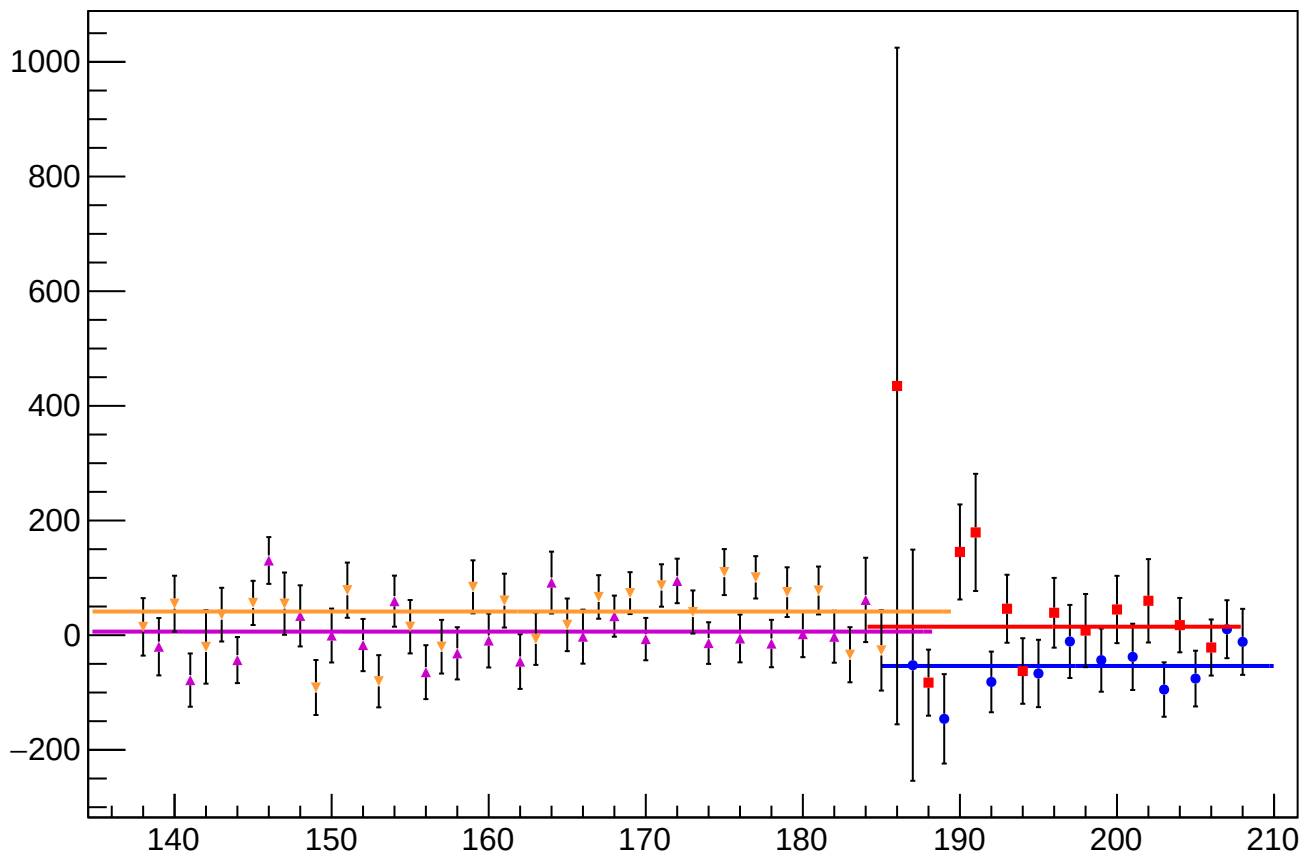
Right: 870.597 ± 0.160 $\chi^2/\text{NDF}: 1553696.0/22$

In: 369.801 ± 0.056 $\chi^2/\text{NDF}: 6747305.6/33$

Out: 368.188 ± 0.055 $\chi^2/\text{NDF}: 8224869.0/36$

All: 368.981 ± 0.039 $\chi^2/\text{NDF}: 14972593.3/70$

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -53.690 ± 17.484 χ^2/NDF : 5.4/10

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 14.802 ± 18.280 χ^2/NDF : 11.9/11

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

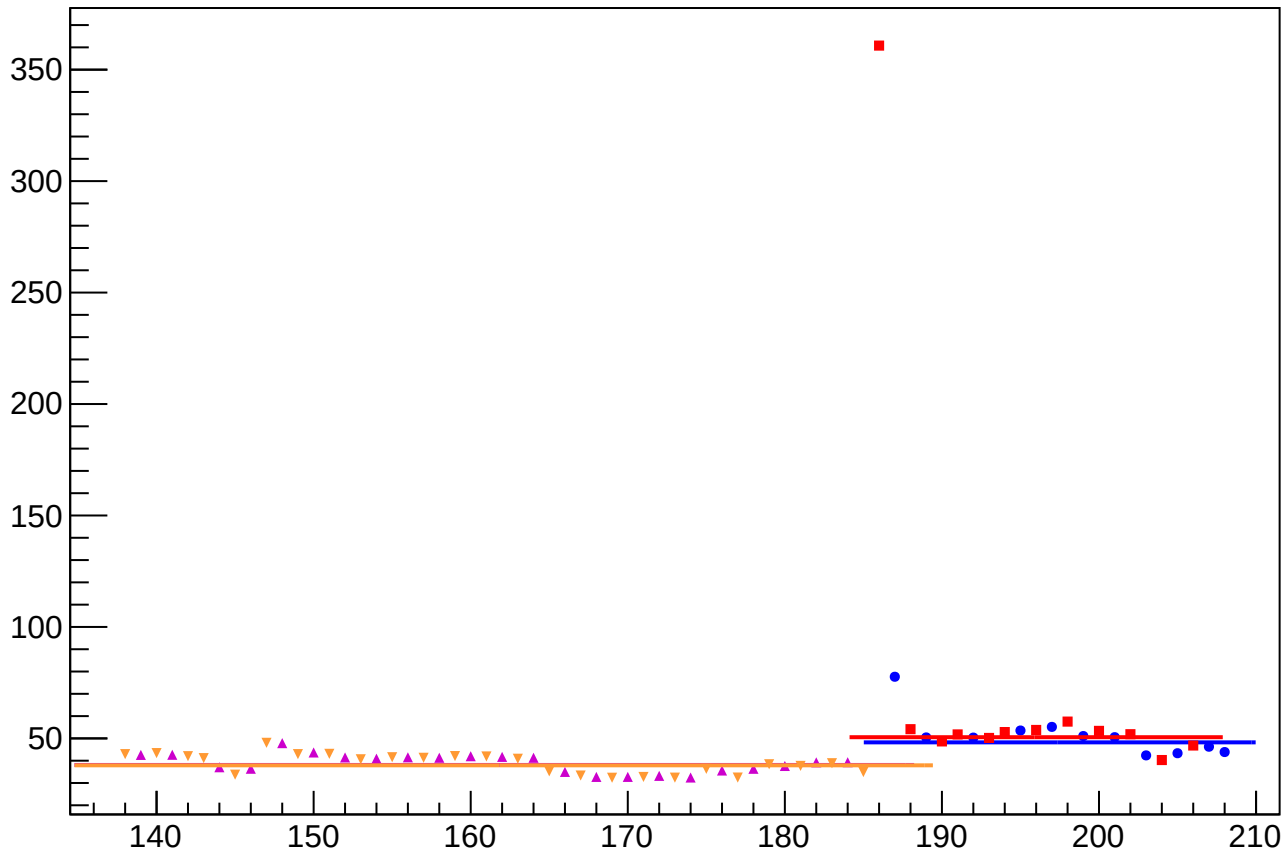
Right: -20.969 ± 12.635 χ^2/NDF : 24.6/22

In: -6.689 ± 8.124 χ^2/NDF : 44.9/33

Out: 36.219 ± 7.994 χ^2/NDF : 48.0/36

All: 15.111 ± 5.698 χ^2/NDF : 107.0/70

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.224 $\pm$ 0.012 χ^2 /NDF: 160884.9/10

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 50.538 $\pm$ 0.013 χ^2 /NDF: 705222.0/11

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

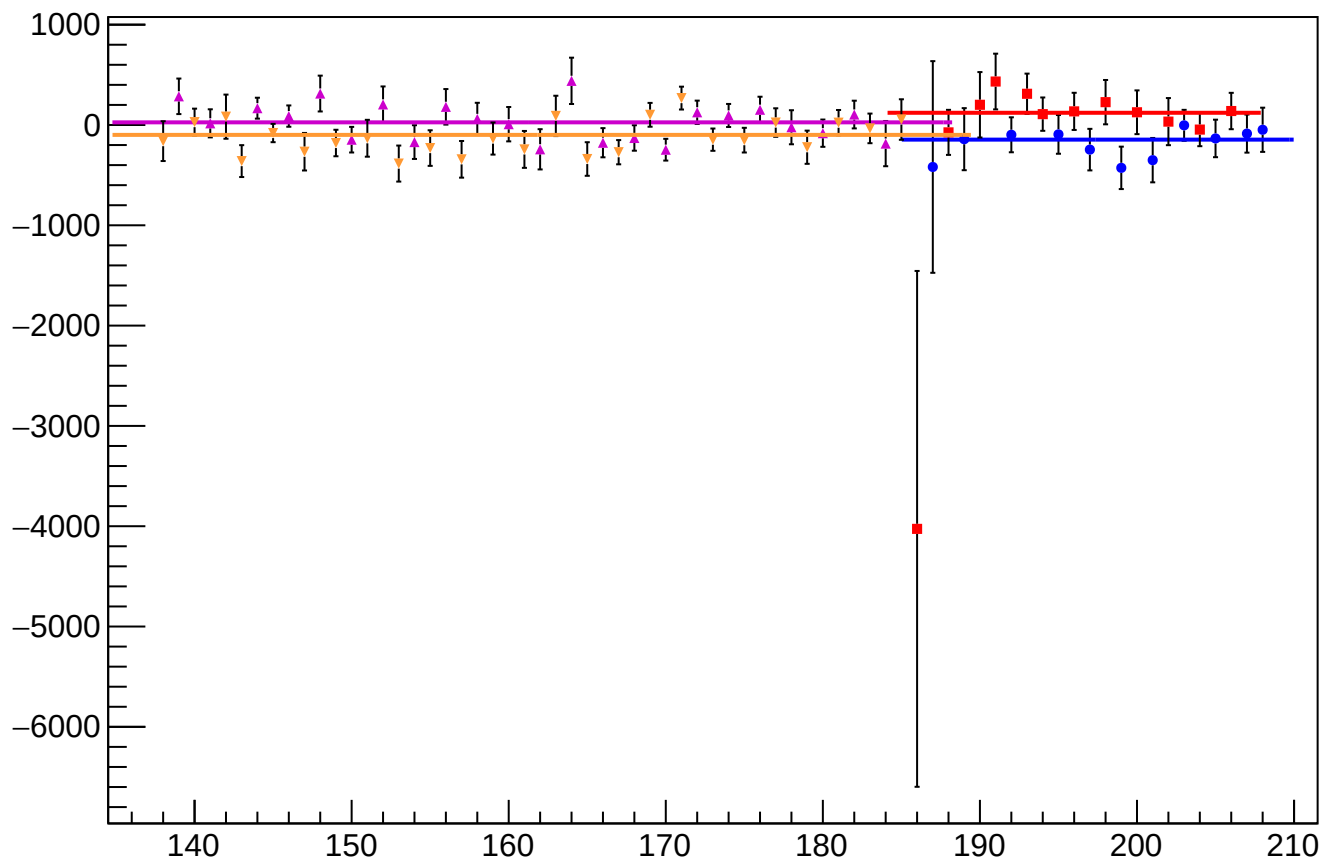
Right: 49.330 $\pm$ 0.009 χ^2 /NDF: 882836.1/22

In: 40.276 $\pm$ 0.006 χ^2 /NDF: 1084394.8/33

Out: 40.337 $\pm$ 0.006 χ^2 /NDF: 1962332.3/36

All: 40.307 $\pm$ 0.004 χ^2 /NDF: 3046784.7/70

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -145.955 ± 62.473 χ^2/NDF : 4.2/10

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 121.640 ± 62.136 χ^2/NDF : 7.0/11

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

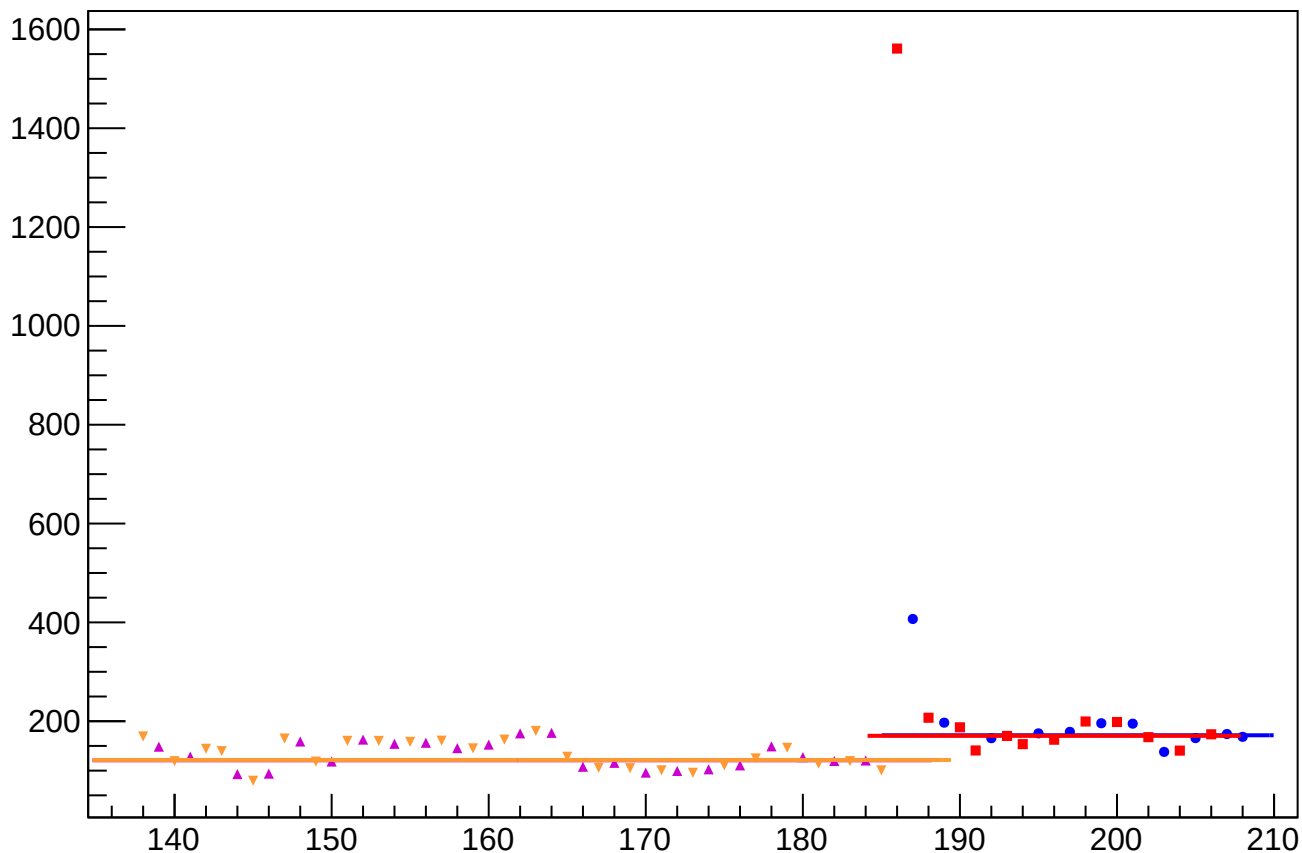
Right: -11.433 ± 44.056 χ^2/NDF : 20.4/22

In: -5.475 ± 26.805 χ^2/NDF : 41.1/33

Out: -59.110 ± 26.350 χ^2/NDF : 50.0/36

All: -32.752 ± 18.791 χ^2/NDF : 93.2/70

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.553+/-0.044 χ^2/NDF : 265338.4/10

Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24

Right Out: 170.461+/-0.044 χ^2/NDF : 824206.0/11

Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

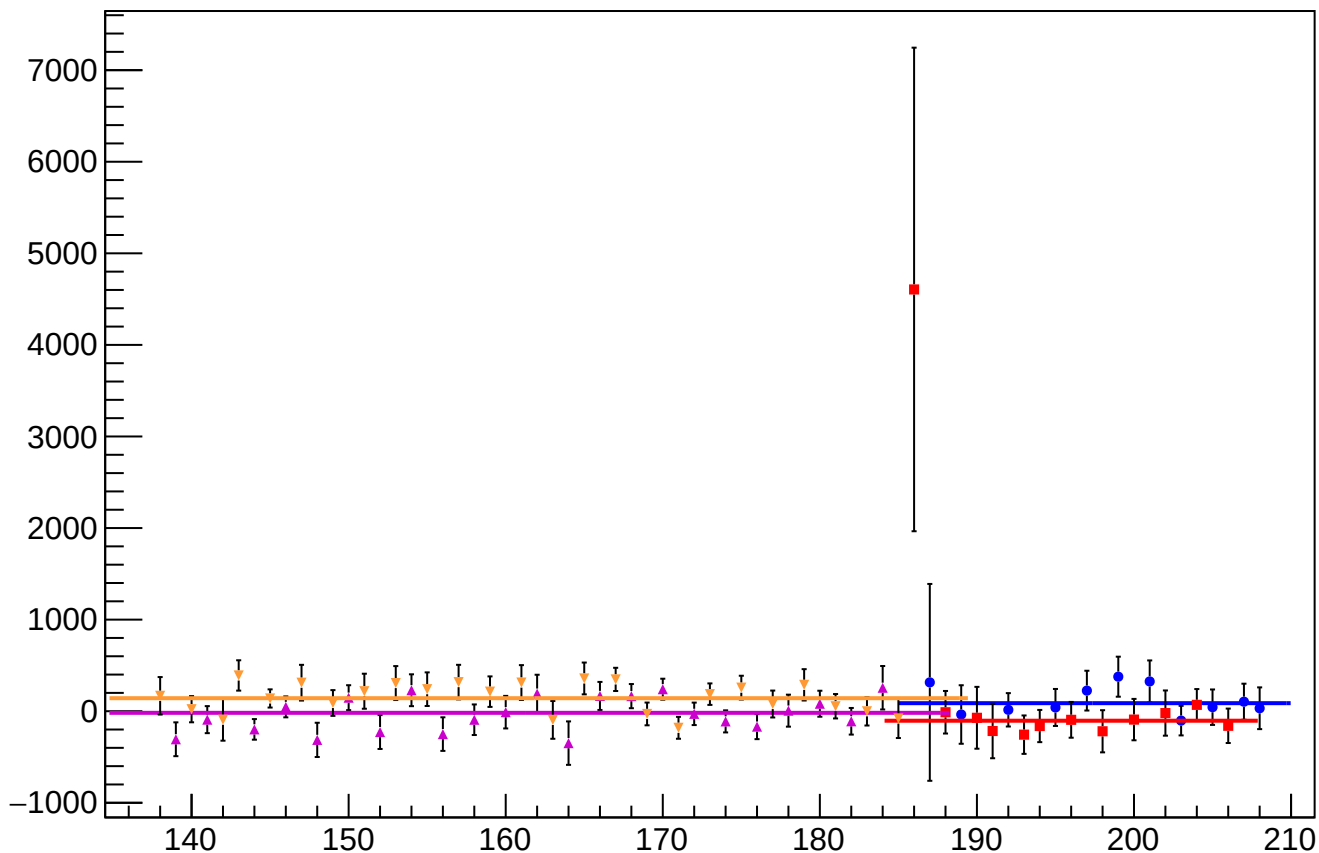
Right: 171.004+/-0.031 χ^2/NDF : 1089852.0/22

In: 130.247+/-0.019 χ^2/NDF : 2719809.8/33

Out: 130.380+/-0.019 χ^2/NDF : 3550257.9/36

All: 130.315+/-0.013 χ^2/NDF : 6270092.8/70

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 87.725+/-65.025 χ^2/NDF : 5.1/10

Left Out: 142.014+/-30.574 χ^2/NDF : 26.9/24

Right Out: -103.790+/-64.983 χ^2/NDF : 5.6/11

Left In: -17.679+/-31.209 χ^2/NDF : 30.1/22

Left: 63.807+/-21.840 χ^2/NDF : 70.4/47

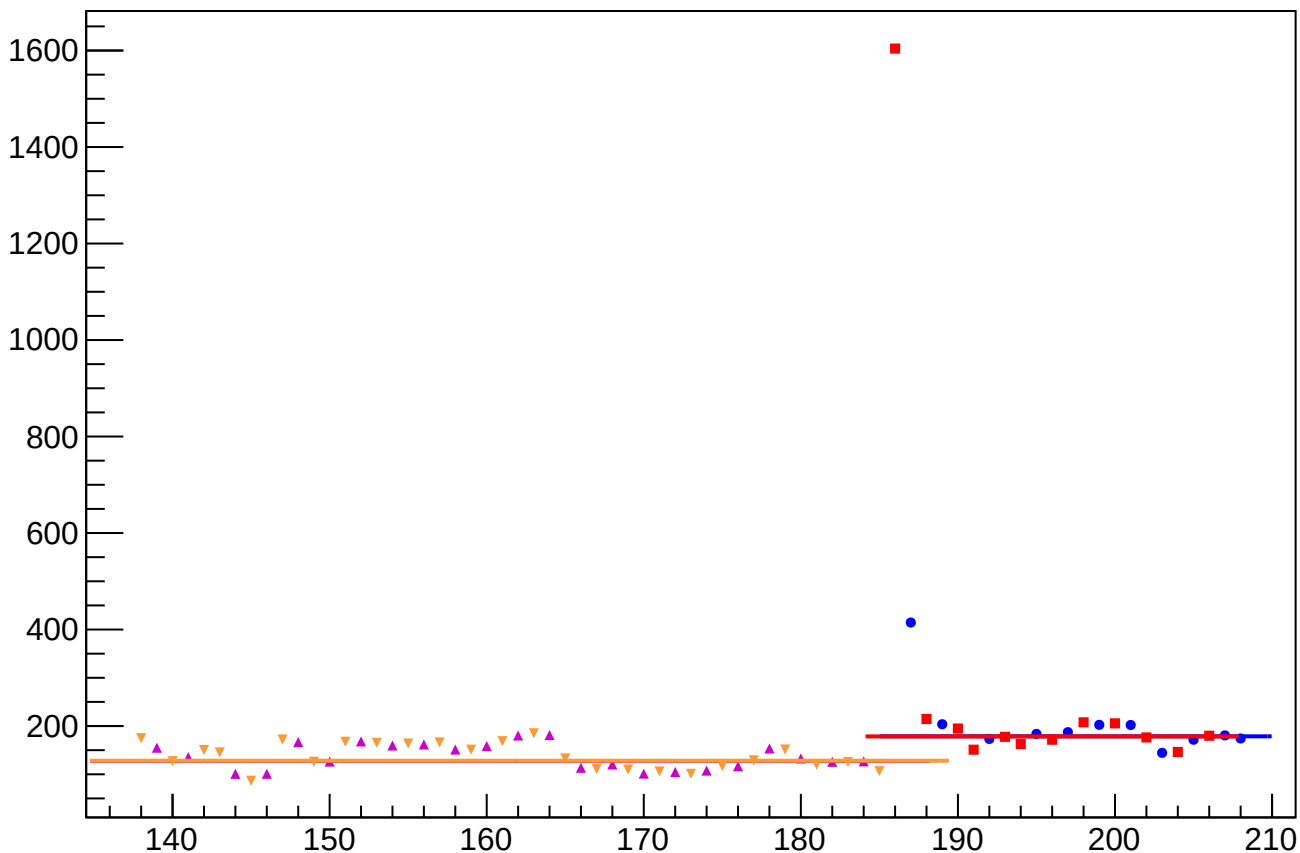
Right: -8.094+/-45.965 χ^2/NDF : 15.1/22

In: 2.055+/-28.136 χ^2/NDF : 37.4/33

Out: 97.463+/-27.665 χ^2/NDF : 44.2/36

All: 50.564+/-19.727 χ^2/NDF : 87.4/70

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 178.687 $\pm$ 0.046 χ^2 /NDF: 253296.2/10

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 178.509 $\pm$ 0.046 χ^2 /NDF: 802665.8/11

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

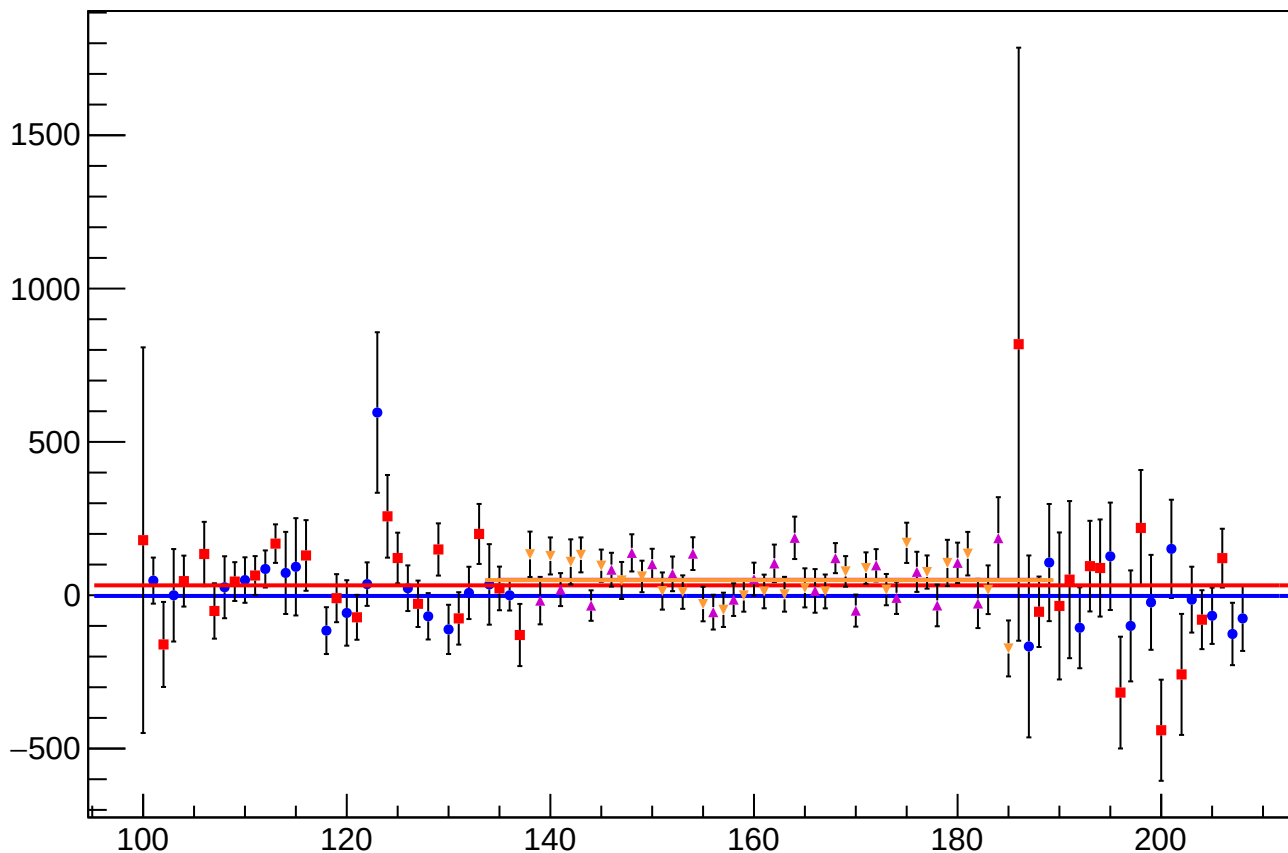
Right: 178.598 $\pm$ 0.033 χ^2 /NDF: 1055969.6/22

In: 137.119 $\pm$ 0.020 χ^2 /NDF: 2494581.2/33

Out: 137.298 $\pm$ 0.020 χ^2 /NDF: 3318021.2/36

All: 137.210 $\pm$ 0.014 χ^2 /NDF: 5812643.6/70

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.311 ± 18.003 $\chi^2/\text{NDF}: 20.1/27$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 32.245 ± 17.750 $\chi^2/\text{NDF}: 44.3/30$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

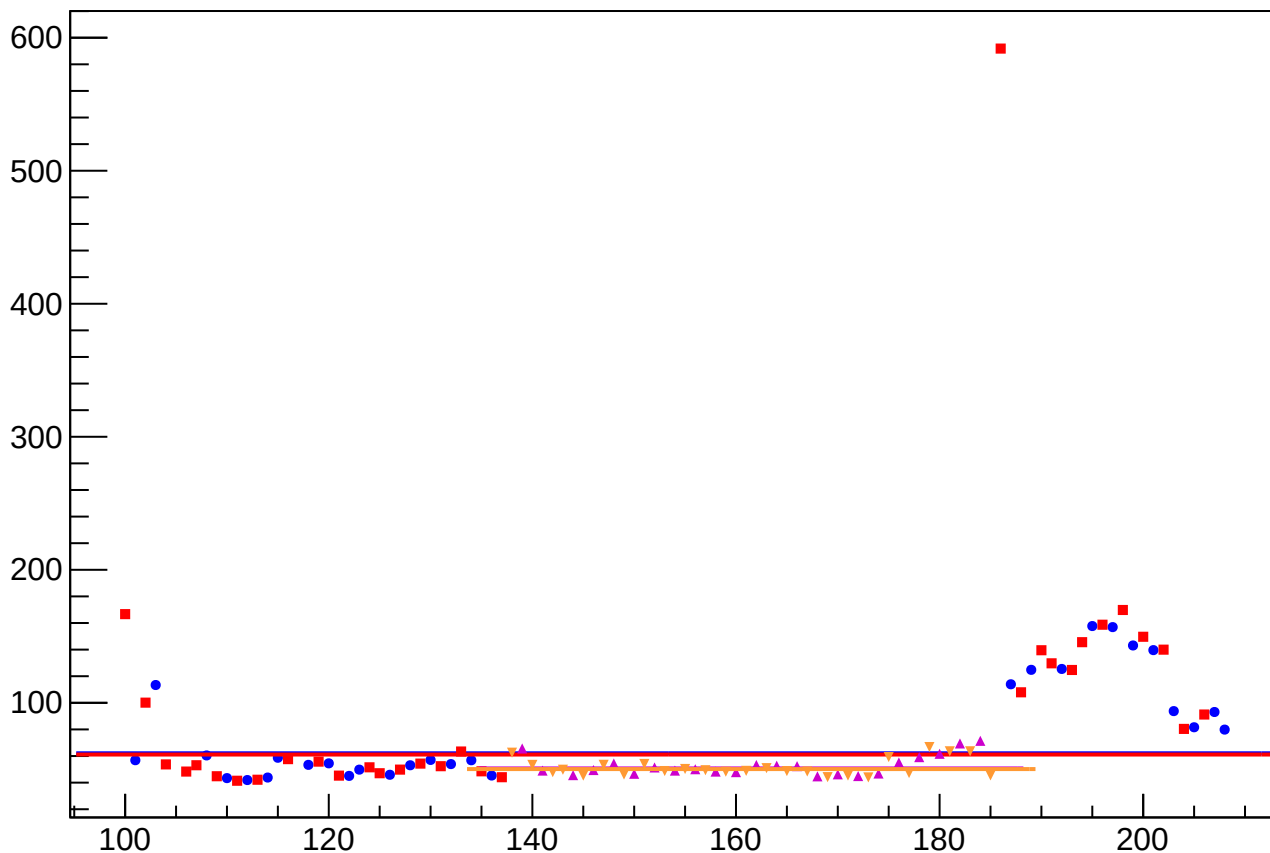
Right: 15.212 ± 12.640 $\chi^2/\text{NDF}: 66.3/58$

In: 33.665 ± 10.130 $\chi^2/\text{NDF}: 58.1/50$

Out: 44.140 ± 9.830 $\chi^2/\text{NDF}: 73.0/55$

All: 39.060 ± 7.054 $\chi^2/\text{NDF}: 131.7/106$

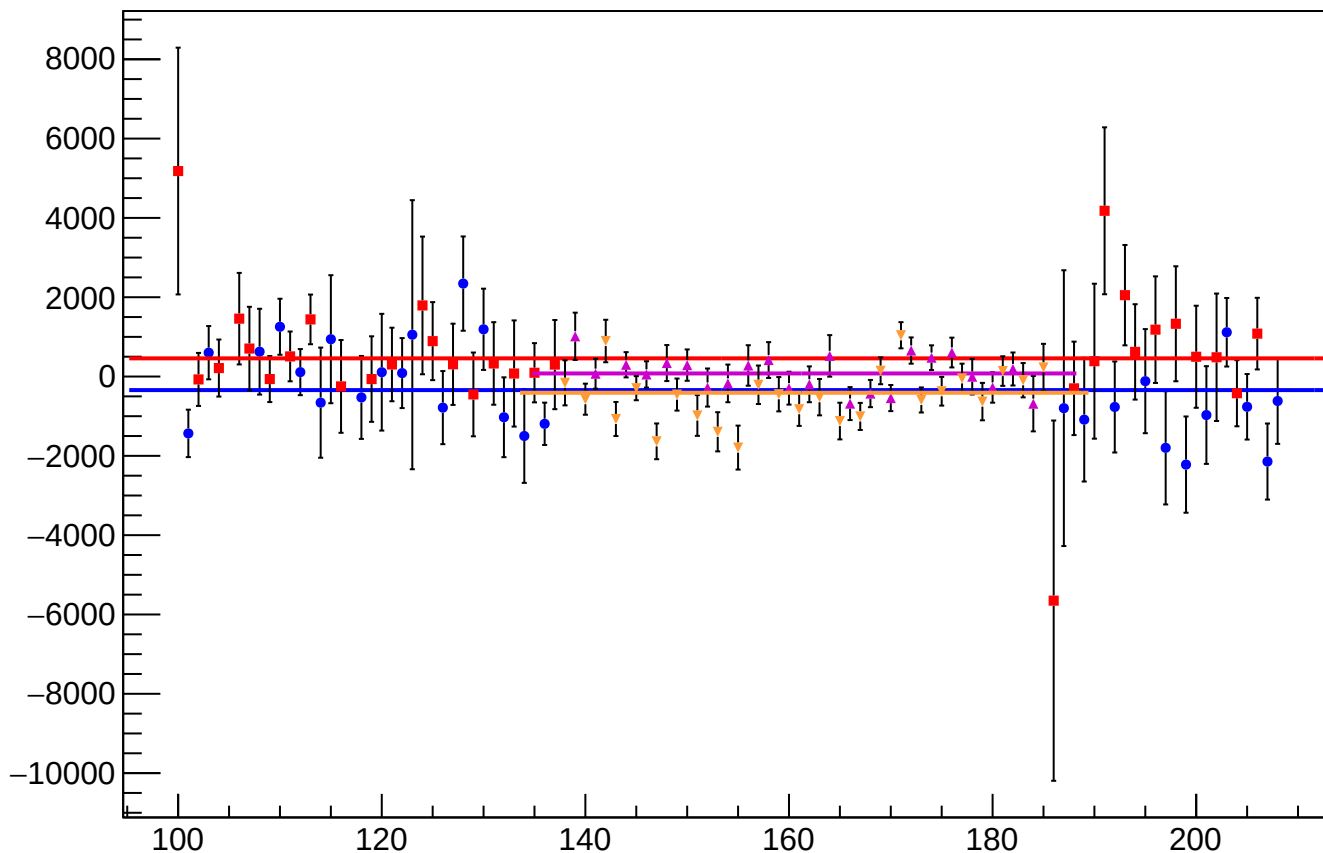
reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 62.058 $\pm$ 0.013 χ^2 /NDF: 4570492.9/27
 Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24
 Right Out: 61.120 $\pm$ 0.013 χ^2 /NDF: 5795355.3/30
 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: 61.582 $\pm$ 0.009 χ^2 /NDF: 10368596.7/58
 In: 54.284 $\pm$ 0.007 χ^2 /NDF: 5585395.5/50
 Out: 53.542 $\pm$ 0.007 χ^2 /NDF: 6788900.5/55
 All: 53.902 $\pm$ 0.005 χ^2 /NDF: 12379827.7/106

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -341.944 ± 179.780 χ^2/NDF : 35.4/27

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 458.458 ± 178.803 χ^2/NDF : 18.9/30

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

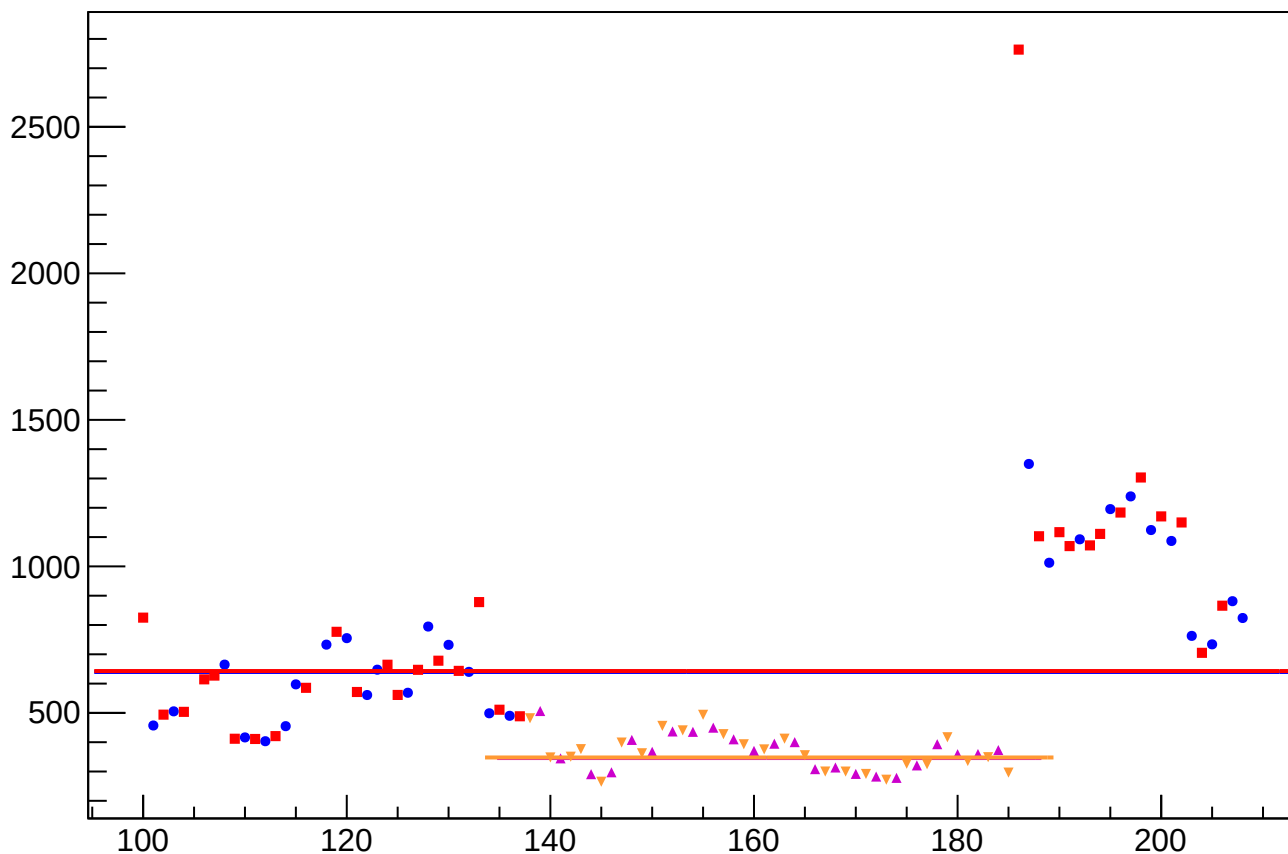
Right: 60.438 ± 126.777 χ^2/NDF : 64.2/58

In: 2.538 ± 76.156 χ^2/NDF : 64.7/50

Out: -257.336 ± 74.797 χ^2/NDF : 100.0/55

All: -129.740 ± 53.364 χ^2/NDF : 170.6/106

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 639.662 $\pm$ 0.127 χ^2 /NDF: 3179805.4/27

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 642.873 $\pm$ 0.126 χ^2 /NDF: 4130612.7/30

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

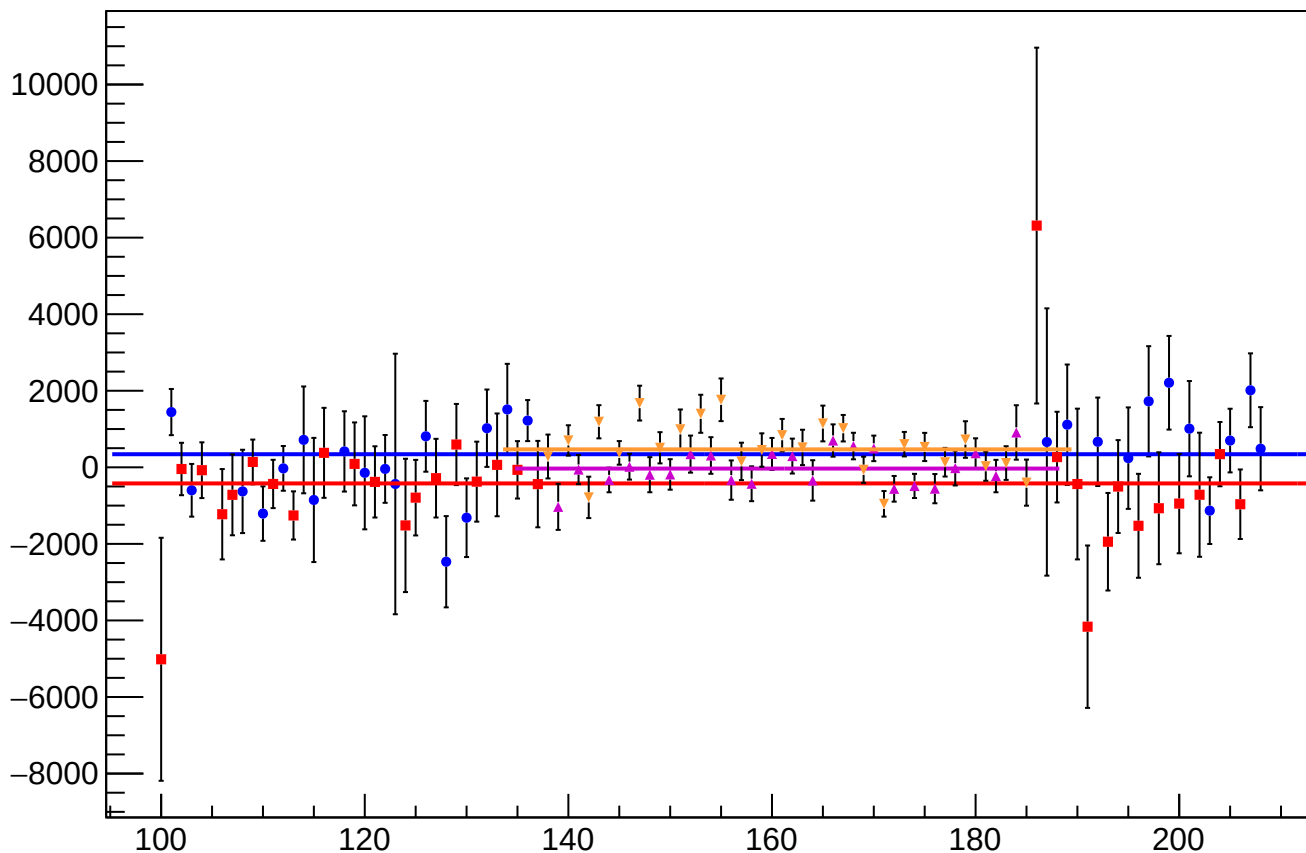
Right: 641.276 $\pm$ 0.090 χ^2 /NDF: 7310738.8/58

In: 398.659 $\pm$ 0.054 χ^2 /NDF:8460792.8/50

Out: 399.498 $\pm$ 0.053 χ^2 /NDF:9666072.0/55

All: 399.086 $\pm$ 0.038 χ^2 /NDF: 18126988.4/100

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 342.158+/-181.058 χ^2/NDF : 34.6/27

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -420.650+/-180.178 χ^2/NDF : 17.6/30

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

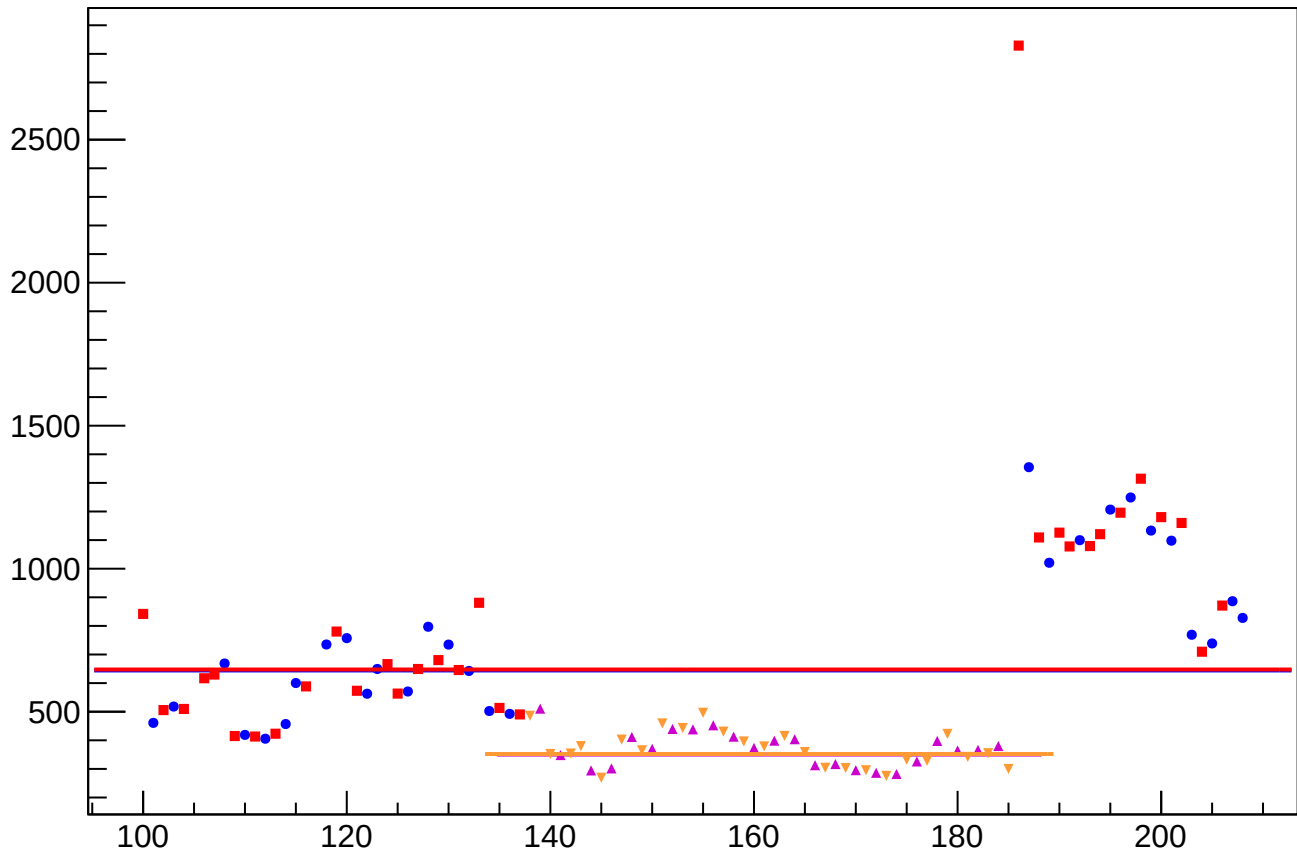
Right: -41.105+/-127.715 χ^2/NDF : 61.1/58

In: 34.997+/-76.990 χ^2/NDF : 63.8/50

Out: 312.233+/-75.607 χ^2/NDF : 95.2/55

All: 176.128+/-53.945 χ^2/NDF : 165.6/106

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 644.282+/-0.128 χ^2/NDF : 3174878.5/27

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 647.559+/-0.127 χ^2/NDF : 4131875.9/30

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

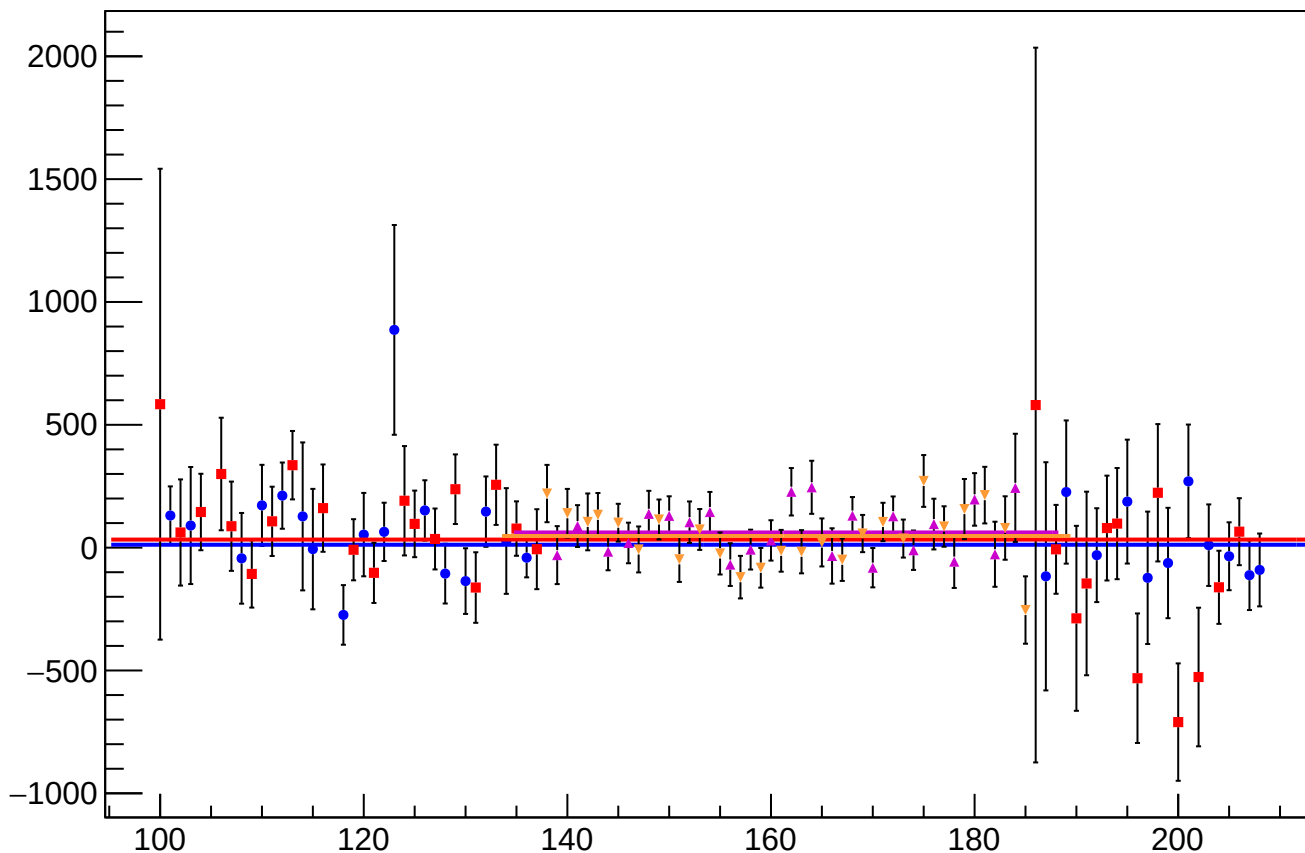
Right: 645.928+/-0.090 χ^2/NDF : 7307083.8/58

In: 403.342+/-0.054 χ^2/NDF : 8376688.5/50

Out: 404.056+/-0.053 χ^2/NDF : 9582669.2/55

All: 403.705+/-0.038 χ^2/NDF : 17959445.3/100

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 11.874 $\pm$ 29.760 χ^2 /NDF: 23.4/27

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 32.866 $\pm$ 30.590 χ^2 /NDF: 38.6/30

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

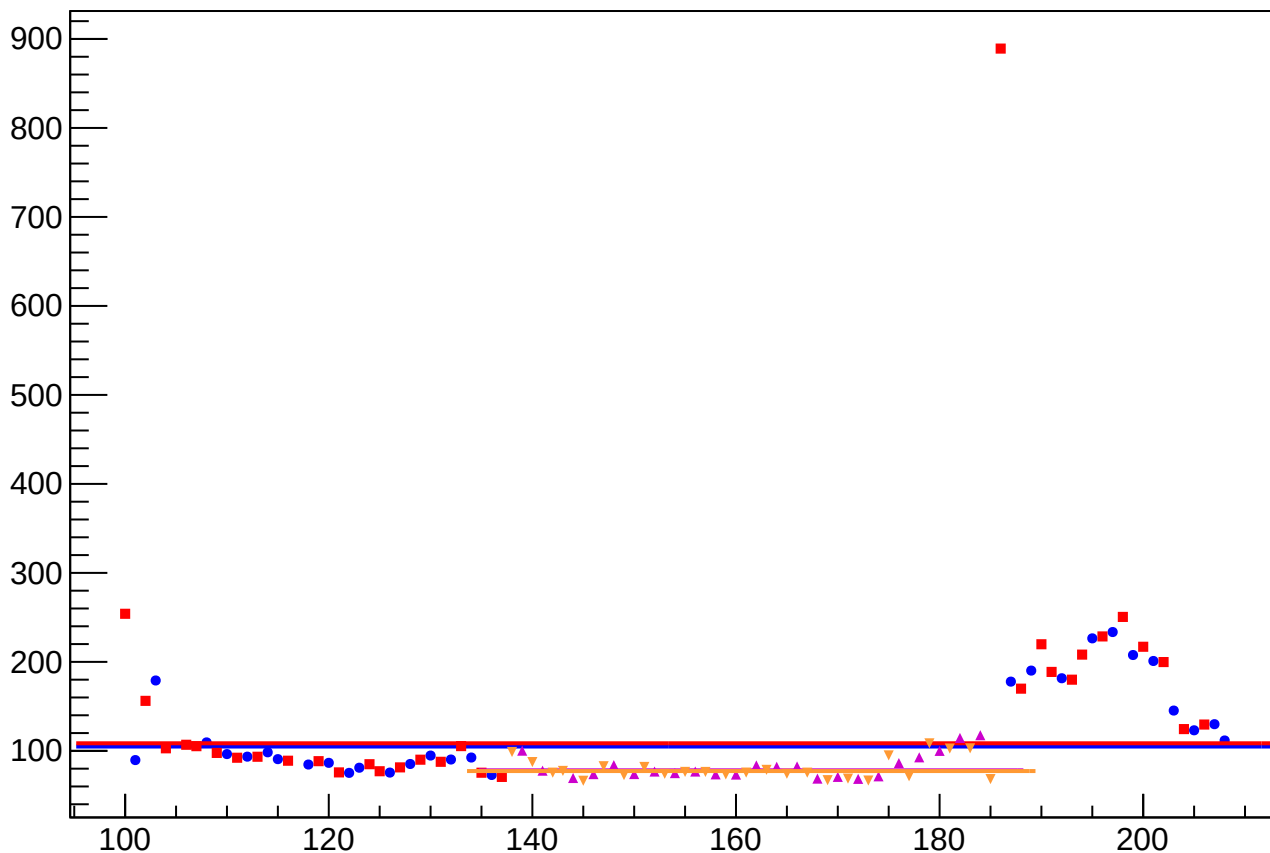
Right: 22.081 $\pm$ 21.331 χ^2 /NDF: 62.3/58

In: 47.410 $\pm$ 15.989 χ^2 /NDF:49.4/50

Out: 43.603 $\pm$ 15.674 χ^2 /NDF:68.2/55

All: 45.468 $\pm$ 11.193 χ^2 /NDF: 117.6/106

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 104.878+/-0.021 χ^2/NDF : 3438837.8/27

Left Out: 77.316+/-0.013 χ^2/NDF : 635622.3/24

Right Out: 108.524+/-0.022 χ^2/NDF : 4324658.8/30

Left In: 78.139+/-0.013 χ^2/NDF : 582108.1/22

Left: 77.712+/-0.009 χ^2/NDF : 1219684.1/47

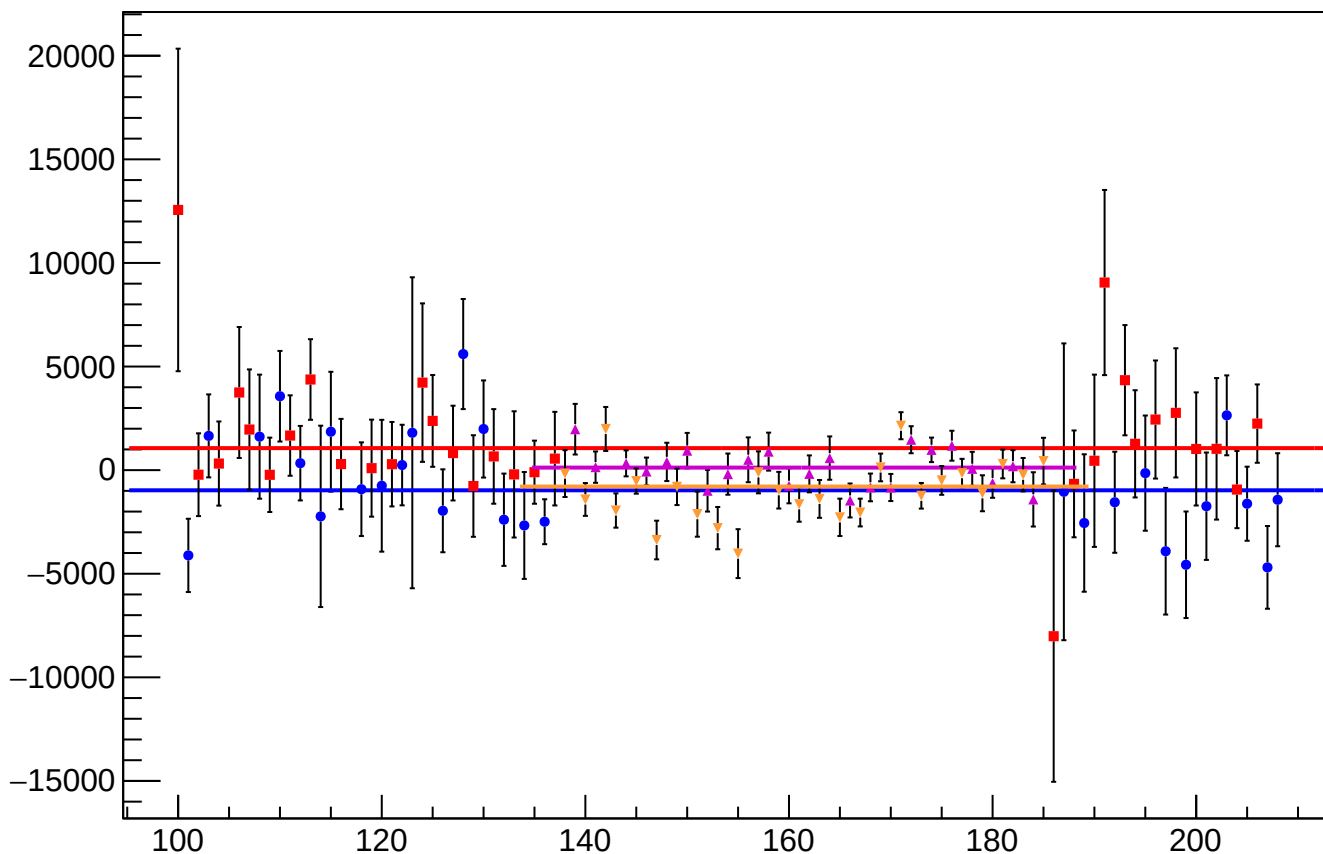
Right: 106.651+/-0.015 χ^2/NDF : 7778096.6/58

In: 85.857+/-0.011 χ^2/NDF : 5169468.3/50

Out: 85.510+/-0.011 χ^2/NDF : 6495375.9/55

All: 85.680+/-0.008 χ^2/NDF : 11665324.5/106

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -973.101 $\pm$ 423.723 χ^2 /NDF: 33.3/27

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1062.708 $\pm$ 432.642 χ^2 /NDF: 18.9/30

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

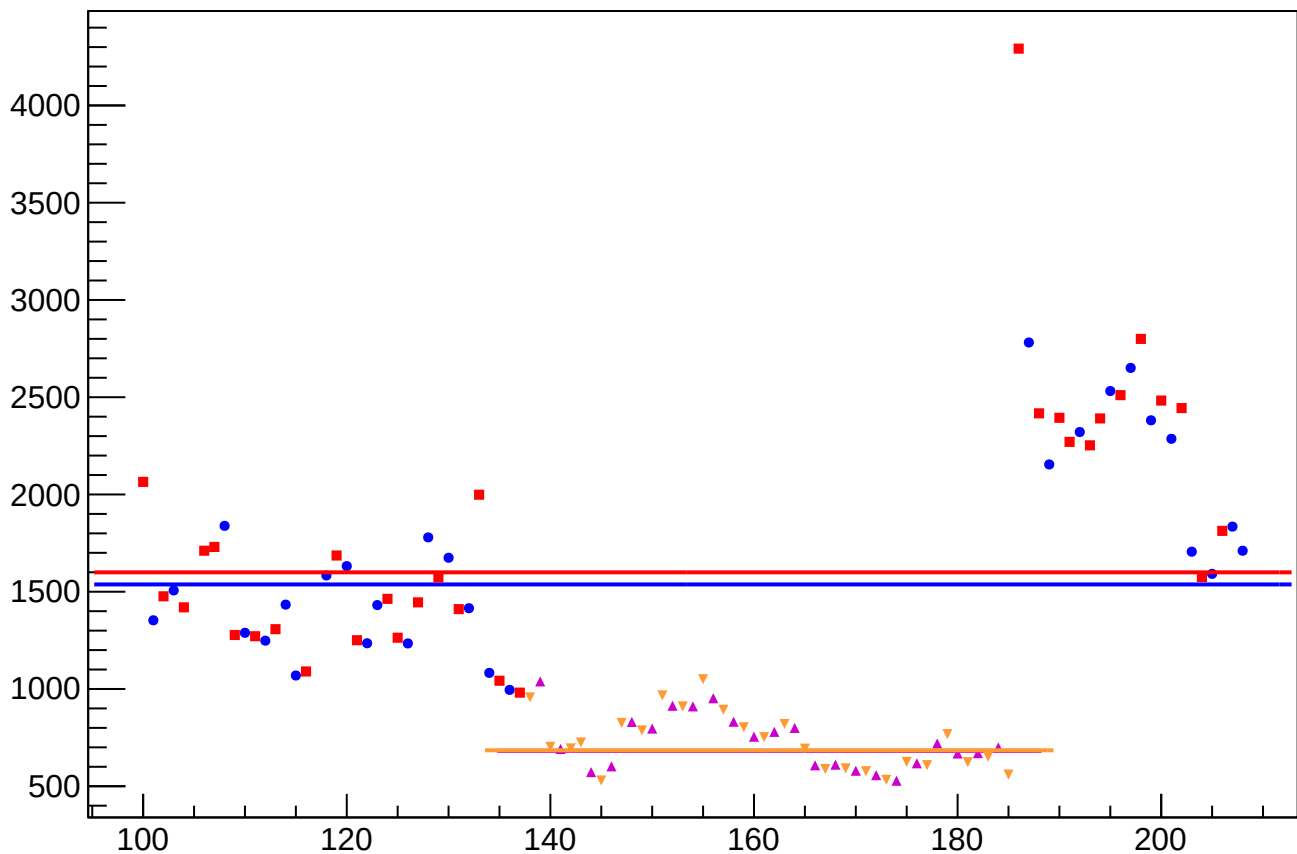
Right: 23.603 $\pm$ 302.721 χ^2 /NDF: 63.5/58

In: -23.836 $\pm$ 154.718 χ^2 /NDF:65.0/50

Out: -562.983 $\pm$ 152.254 χ^2 /NDF:101.6/55

All: -297.737 $\pm$ 108.520 χ^2 /NDF: 172.8/106

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1537.509 $\pm$ 0.300 χ^2 /NDF: 2175508.4/27

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1599.705 $\pm$ 0.306 χ^2 /NDF: 2677077.9/30

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

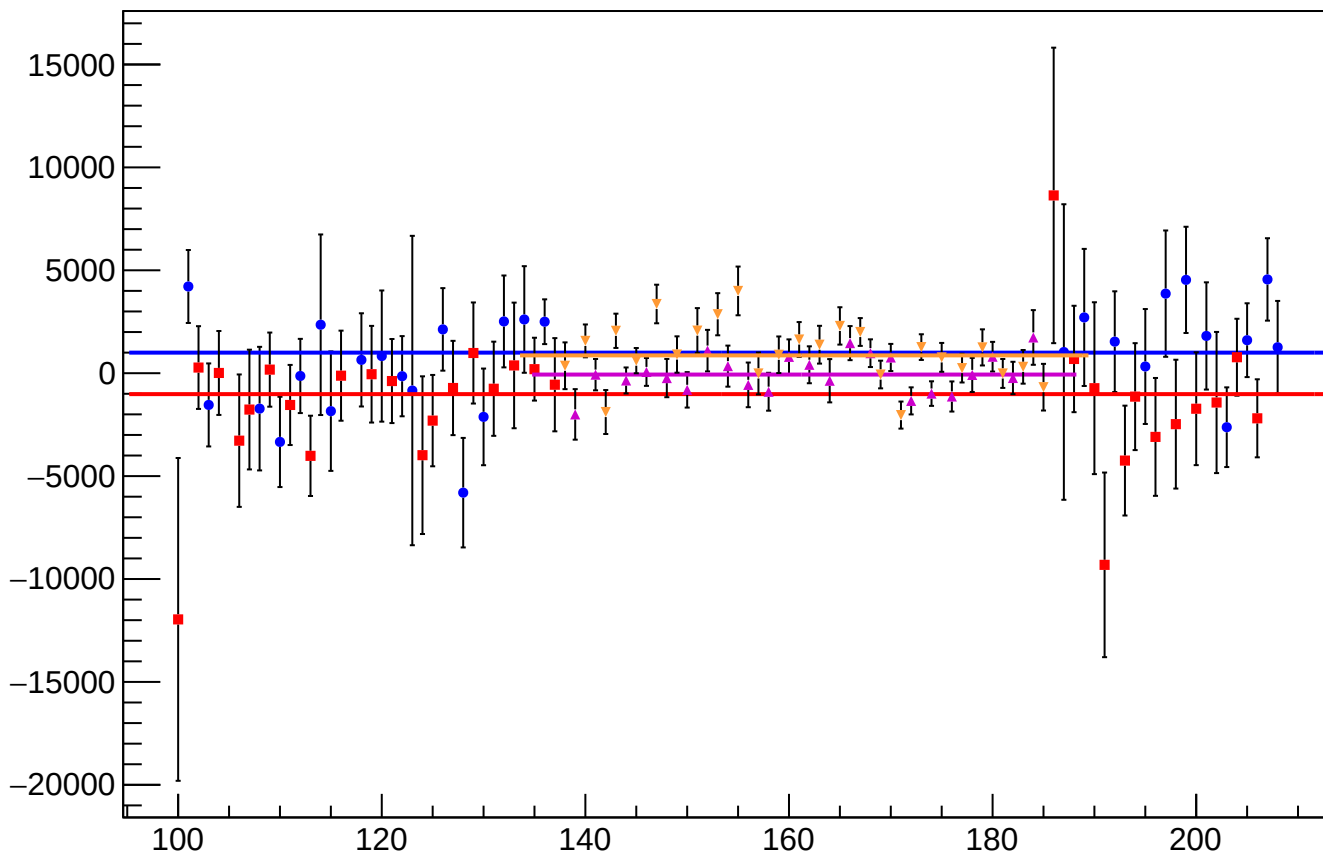
Right: 1567.959 $\pm$ 0.214 χ^2 /NDF: 4873683.4/58

In: 795.813 $\pm$ 0.109 χ^2 /NDF: 10365847.4/50

Out: 798.093 $\pm$ 0.108 χ^2 /NDF: 11793694.2/55

All: 796.972 $\pm$ 0.077 χ^2 /NDF: 22159762.3/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 999.468 ± 425.021 χ^2/NDF : 32.9/27

Left Out: 865.597 ± 163.885 χ^2/NDF : 62.8/24

Right Out: -1016.421 ± 434.141 χ^2/NDF : 18.3/30

Left In: -65.924 ± 167.485 χ^2/NDF : 26.4/22

Left: 409.953 ± 117.136 χ^2/NDF : 105.1/47

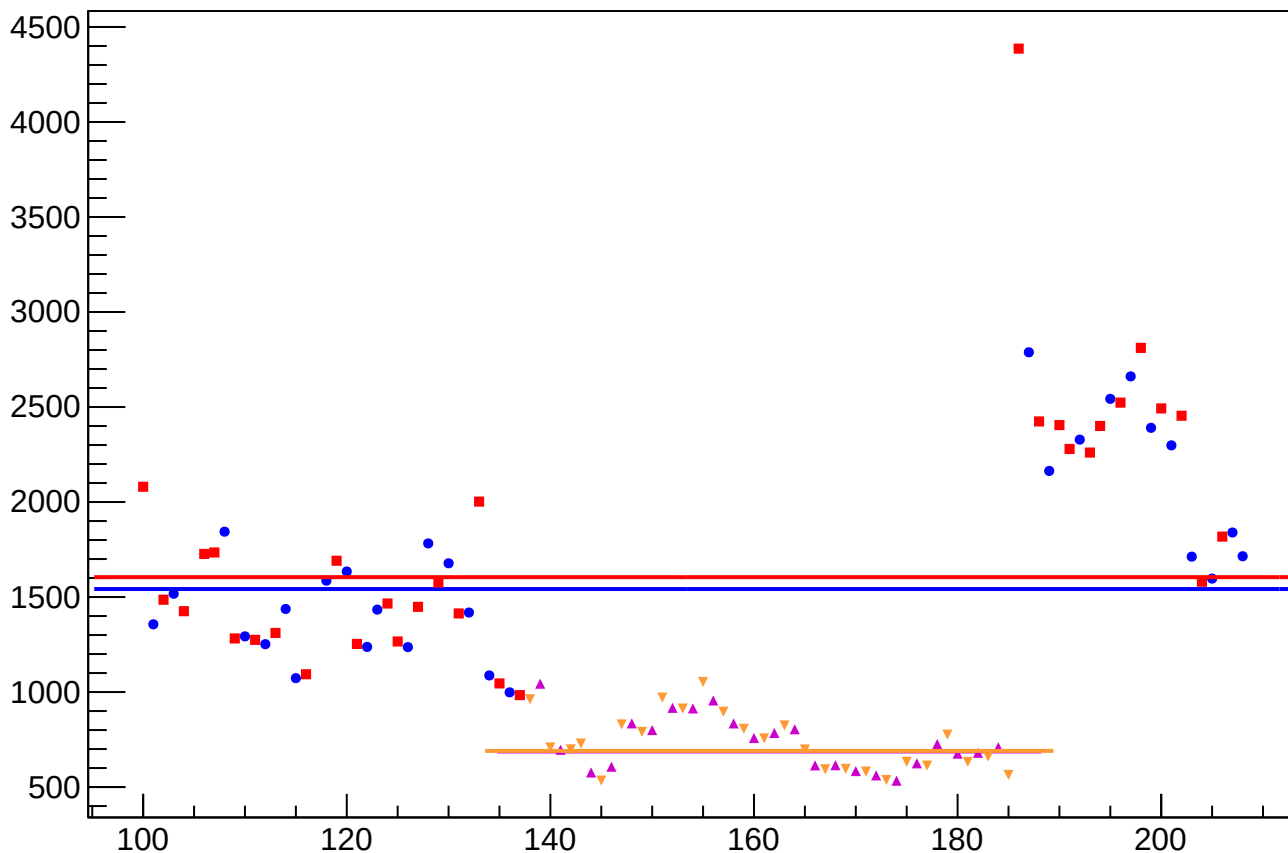
Right: 12.919 ± 303.708 χ^2/NDF : 62.1/58

In: 77.278 ± 155.822 χ^2/NDF : 64.7/50

Out: 630.857 ± 153.325 χ^2/NDF : 97.6/55

All: 358.540 ± 109.289 χ^2/NDF : 168.7/106

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1542.107+/-0.301 χ^2/NDF : 2179590.9/27

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1604.596+/-0.307 χ^2/NDF : 2689664.2/30

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

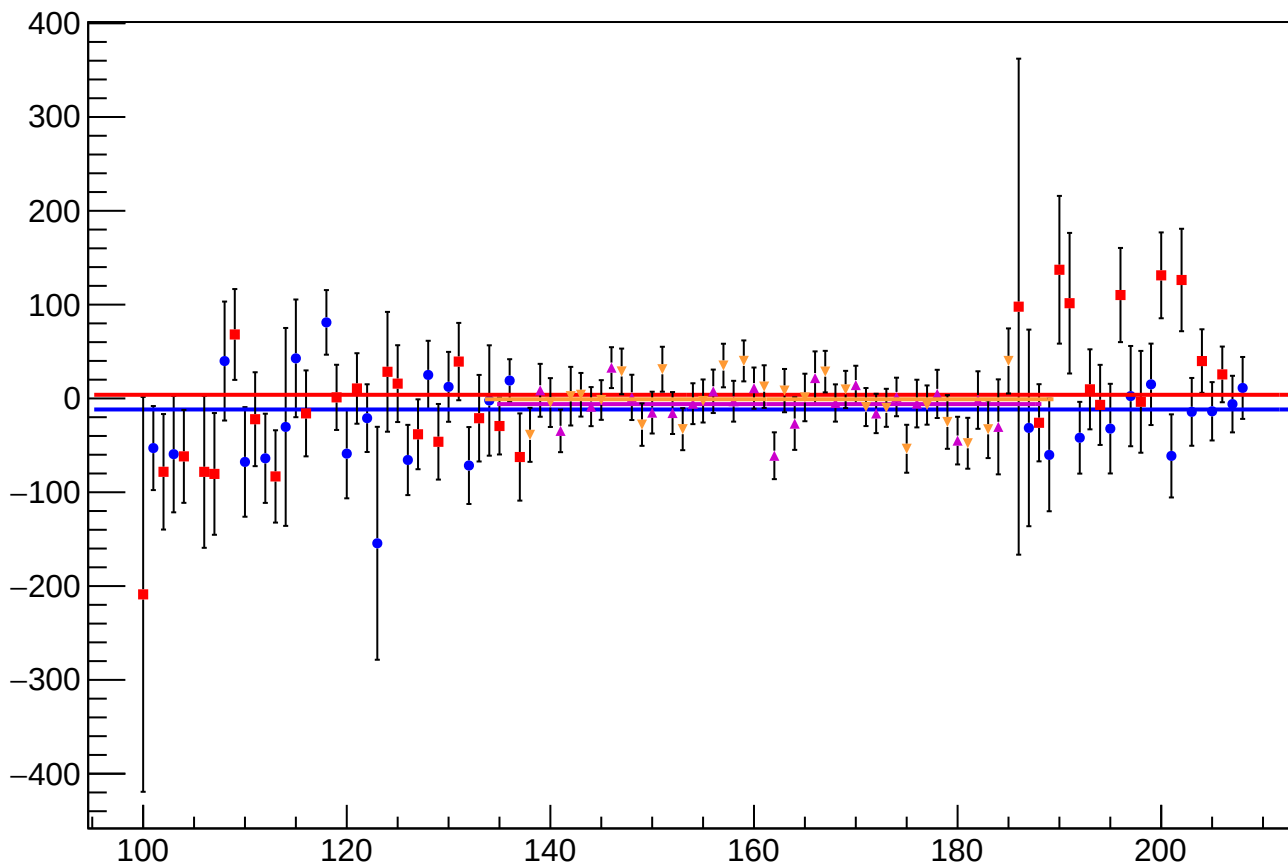
Right: 1572.688+/-0.215 χ^2/NDF : 4890413.0/58

In: 802.124+/-0.110 χ^2/NDF : 10283221.8/50

Out: 804.221+/-0.108 χ^2/NDF : 11714108.7/55

All: 803.190+/-0.077 χ^2/NDF : 21997514.6/10

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -11.761 ± 7.930 χ^2/NDF : 25.8/27

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 3.886 ± 8.242 χ^2/NDF : 44.2/30

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

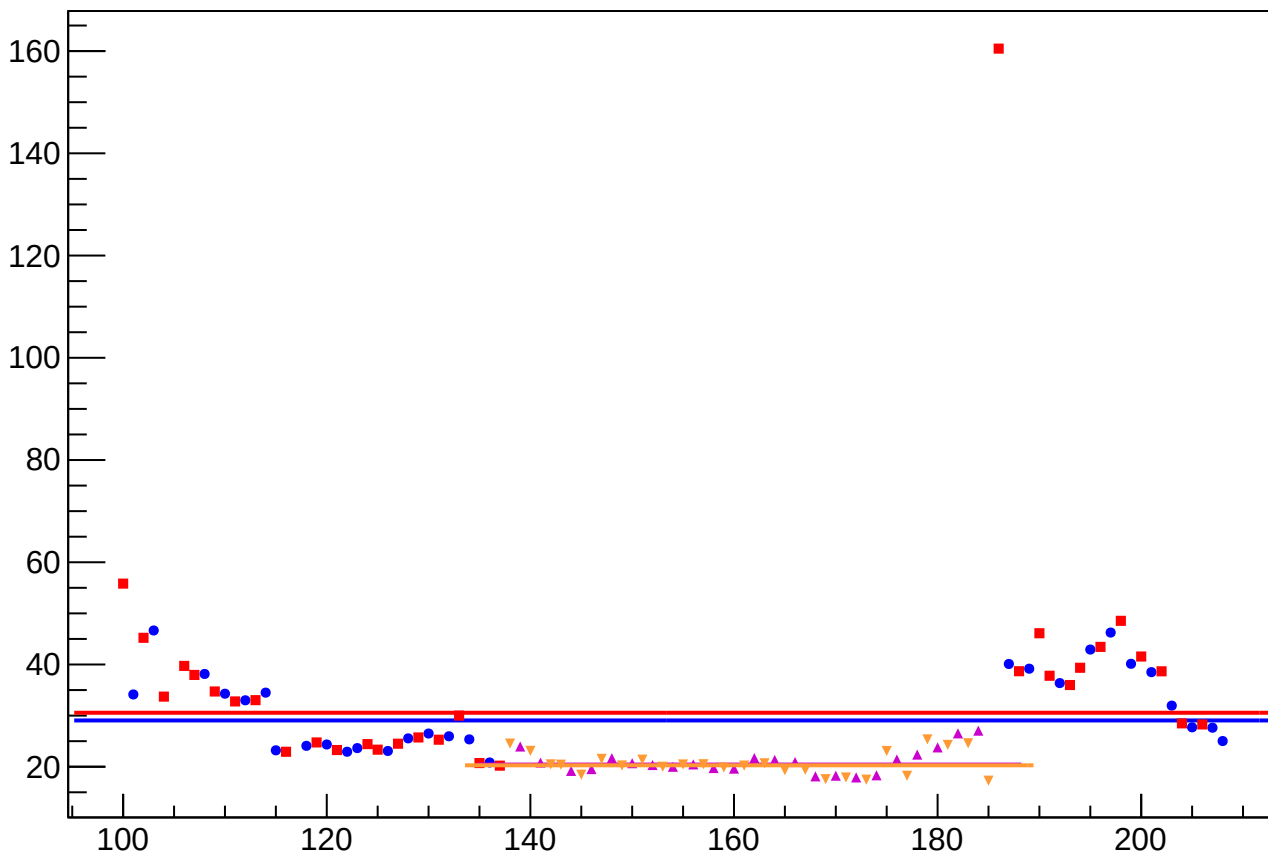
Right: -4.239 ± 5.714 χ^2/NDF : 71.9/58

In: -7.634 ± 4.184 χ^2/NDF : 43.1/50

Out: 0.326 ± 4.122 χ^2/NDF : 72.4/55

All: -3.594 ± 2.936 χ^2/NDF : 117.4/106

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.053+/-0.006 χ^2/NDF : 1562256.6/27

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.559+/-0.006 χ^2/NDF : 2223531.7/30

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

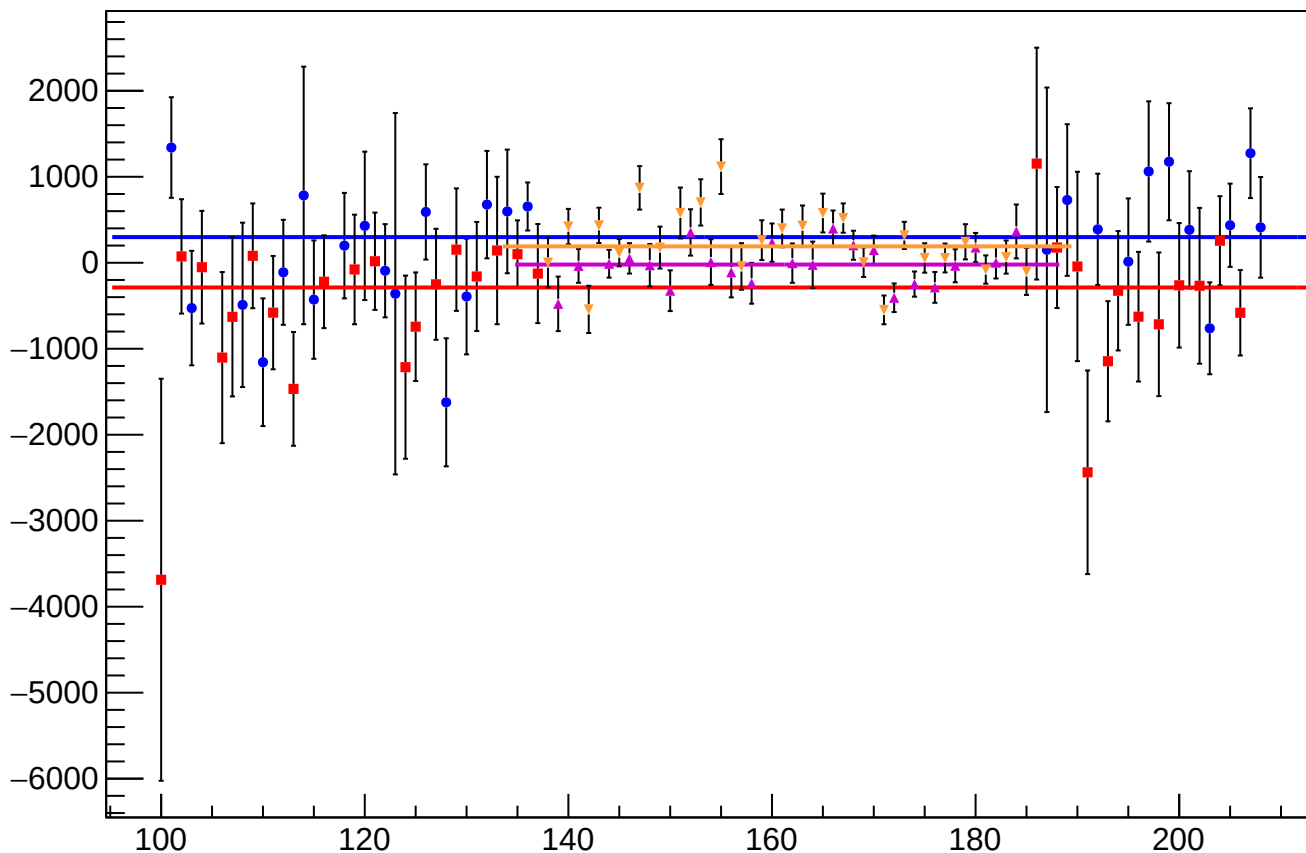
Right: 29.777+/-0.004 χ^2/NDF : 3820469.4/58

In: 22.826+/-0.003 χ^2/NDF : 3594817.1/50

Out: 22.851+/-0.003 χ^2/NDF : 4963822.6/55

All: 22.839+/-0.002 χ^2/NDF : 8558675.3/106

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 298.220 ± 118.254 χ^2/NDF : 32.2/27

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -287.571 ± 122.479 χ^2/NDF : 18.9/30

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

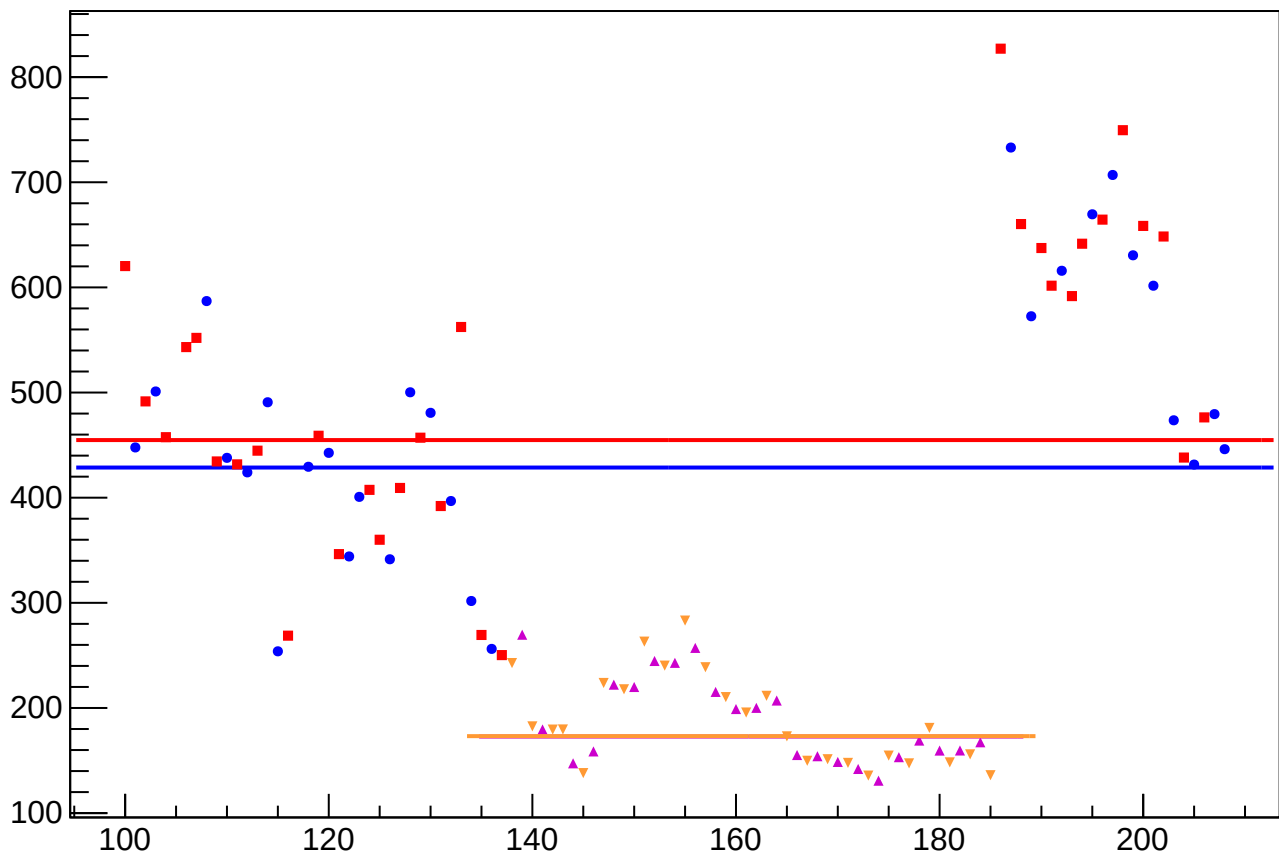
Right: 15.602 ± 85.073 χ^2/NDF : 62.9/58

In: 15.199 ± 39.821 χ^2/NDF : 66.4/50

Out: 141.991 ± 39.147 χ^2/NDF : 100.4/55

All: 79.677 ± 27.916 χ^2/NDF : 172.0/106

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 428.671 $\pm$ 0.084 χ^2 /NDF: 2232295.2/27

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 454.795 $\pm$ 0.087 χ^2 /NDF: 2466125.9/30

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

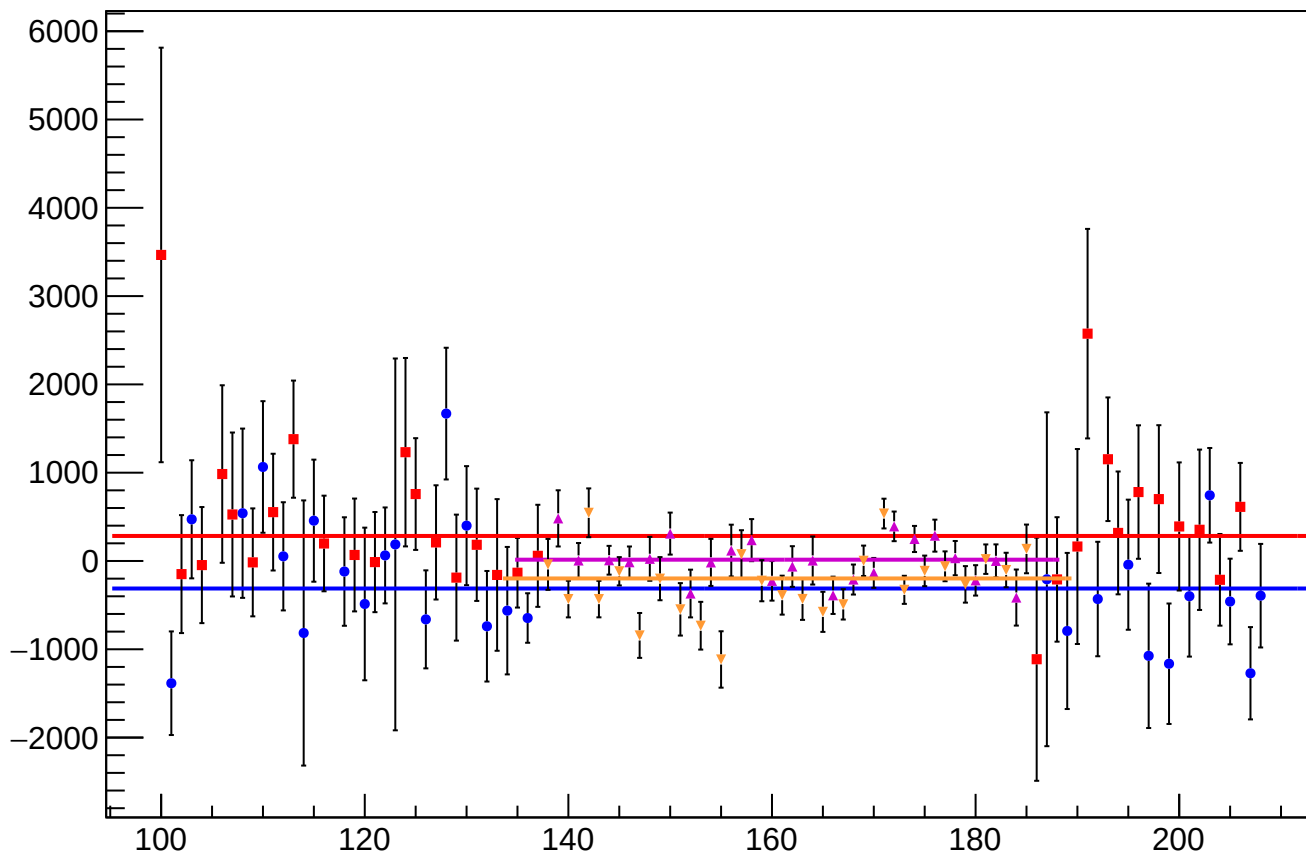
Right: 441.275 $\pm$ 0.060 χ^2 /NDF: 4745509.0/58

In: 201.839 $\pm$ 0.028 χ^2 /NDF:11904412.0/50

Out: 201.976 $\pm$ 0.028 χ^2 /NDF:13518668.1/55

All: 201.908 $\pm$ 0.020 χ^2 /NDF: 25423092.1/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -311.816 $\pm$ 118.565 χ^2 /NDF: 32.1/27

Left Out: -197.918 $\pm$ 41.638 χ^2 /NDF:64.3/24

Right Out: 283.434 $\pm$ 122.829 χ^2 /NDF: 18.8/30

Left In: 14.616 $\pm$ 42.629 χ^2 /NDF:27.7/22

Left: -94.151 $\pm$ 29.787 χ^2 /NDF: 104.7/47

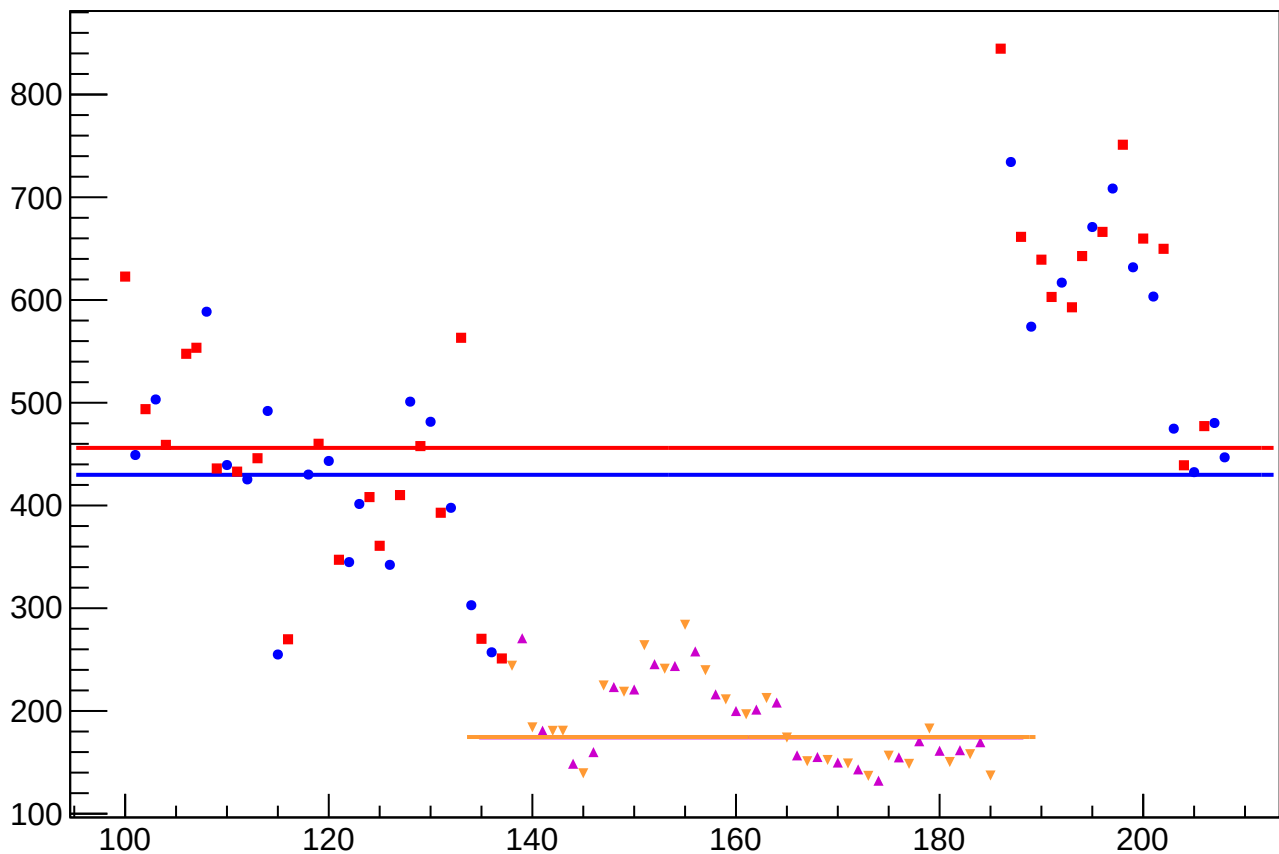
Right: -24.703 $\pm$ 85.306 χ^2 /NDF: 63.1/58

In: -22.752 $\pm$ 40.115 χ^2 /NDF:66.6/50

Out: -148.304 $\pm$ 39.434 χ^2 /NDF:96.9/55

All: -86.604 $\pm$ 28.122 χ^2 /NDF: 168.4/106

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 429.858 $\pm$ 0.084 χ^2/NDF : 2225692.1/27

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 456.054 $\pm$ 0.087 χ^2/NDF : 2469138.3/30

Left In: 174.288 $\pm$ 0.030 χ^2/NDF :1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2/NDF : 2876851.9/47

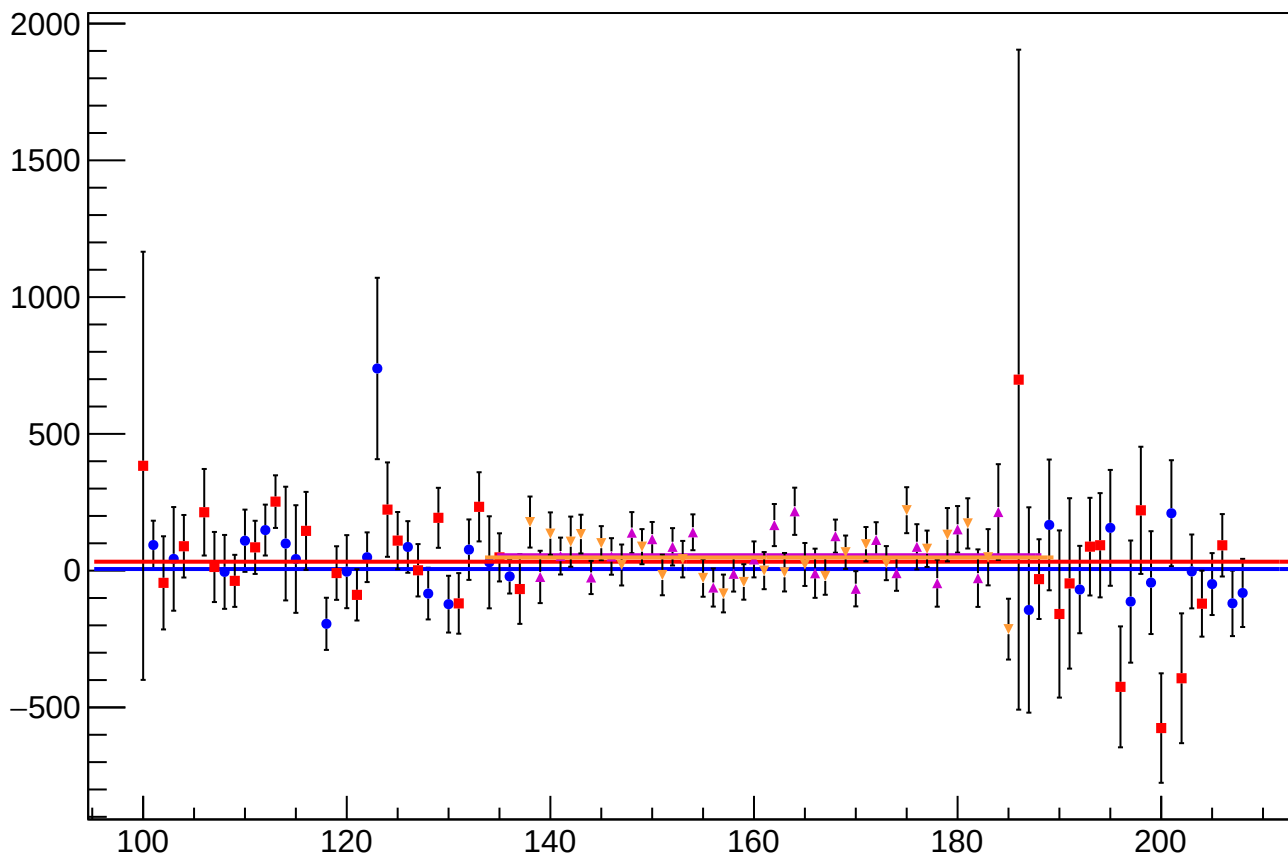
Right: 442.494 $\pm$ 0.060 χ^2/NDF : 4741922.3/58

In: 203.544 $\pm$ 0.028 χ^2/NDF :11799292.4/50

Out: 203.653 $\pm$ 0.028 χ^2/NDF :13416819.7/55

All: 203.599 $\pm$ 0.020 χ^2/NDF : 25216119.6/100

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 5.904 ± 23.153 χ^2/NDF : 22.4/27

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: 32.720 ± 23.490 χ^2/NDF : 40.0/30

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

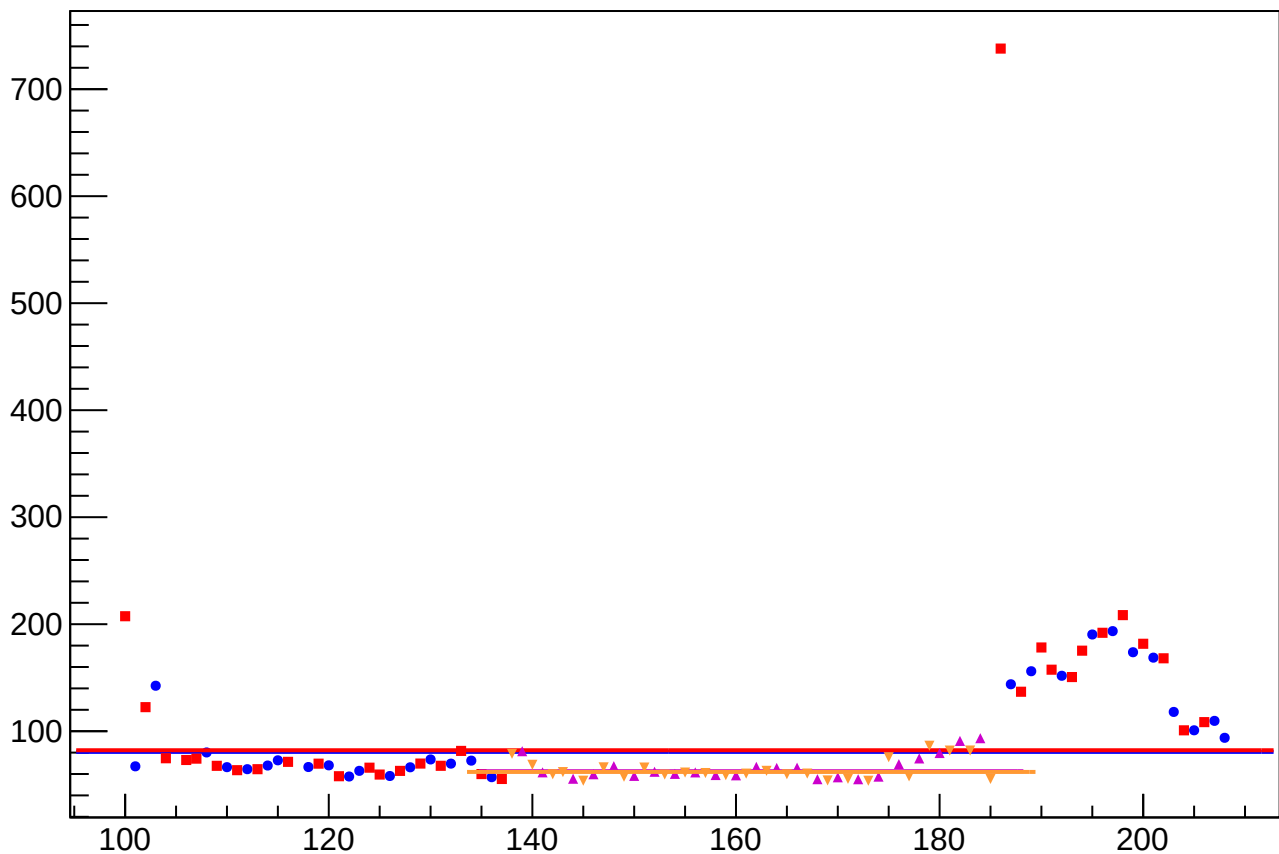
Right: 19.118 ± 16.490 χ^2/NDF : 63.0/58

In: 41.219 ± 12.696 χ^2/NDF : 53.2/50

Out: 43.904 ± 12.410 χ^2/NDF : 69.6/55

All: 42.592 ± 8.874 χ^2/NDF : 122.8/106

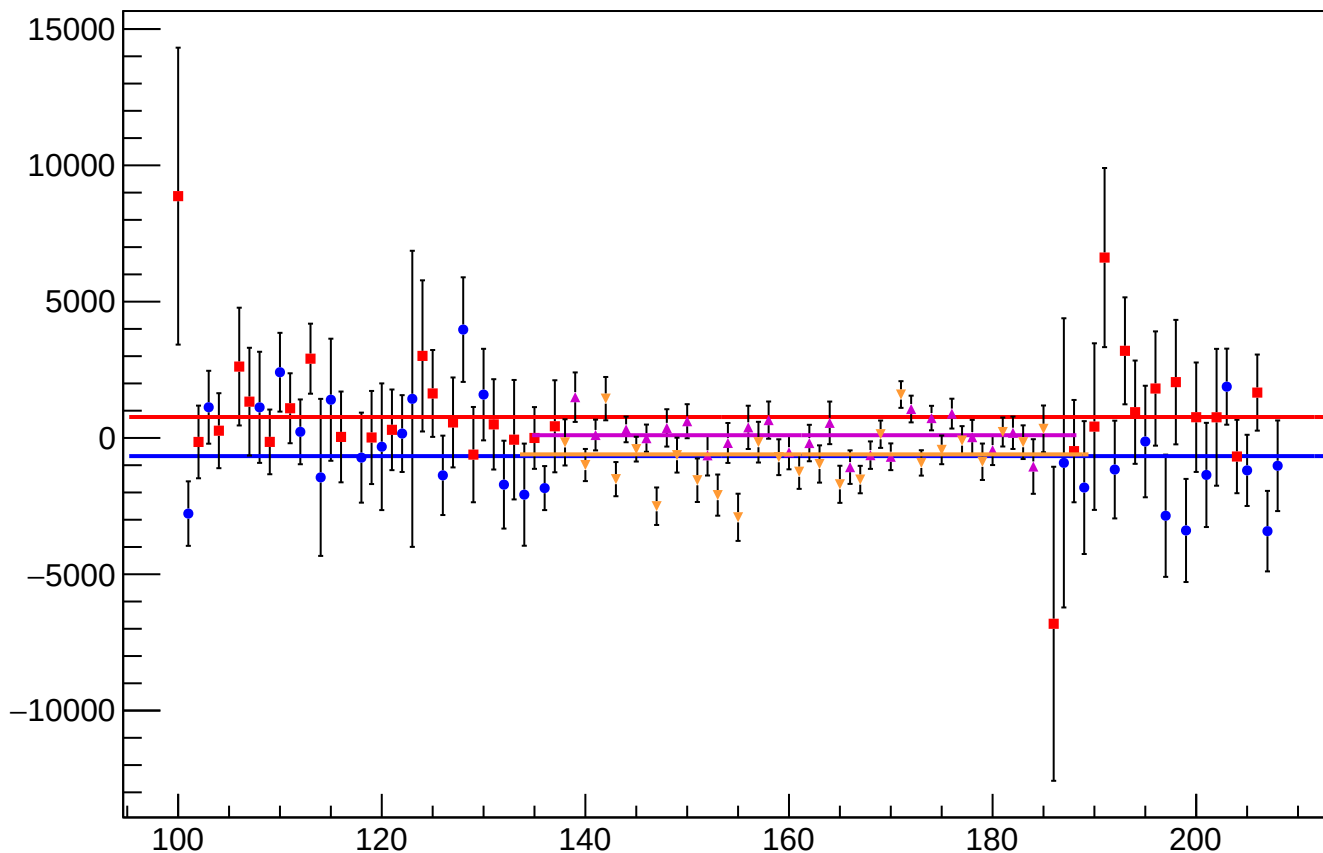
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 80.677 $\pm$ 0.016 χ^2 /NDF: 3996985.0/27
 Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24
 Right Out: 82.200 $\pm$ 0.017 χ^2 /NDF: 4974287.8/30
 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: 81.428 $\pm$ 0.012 χ^2 /NDF: 8975538.3/58
 In: 68.040 $\pm$ 0.009 χ^2 /NDF: 5424413.2/50
 Out: 67.599 $\pm$ 0.009 χ^2 /NDF: 6651166.5/55
 All: 67.815 $\pm$ 0.006 χ^2 /NDF: 12076815.9/106

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -666.094 $\pm$ 303.737 χ^2 /NDF: 33.8/27

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 768.033 $\pm$ 307.945 χ^2 /NDF: 18.8/30

Left In: 100.548 $\pm$ 124.725 χ^2 /NDF:25.5/22

Left: -257.880 $\pm$ 87.258 χ^2 /NDF: 107.0/47

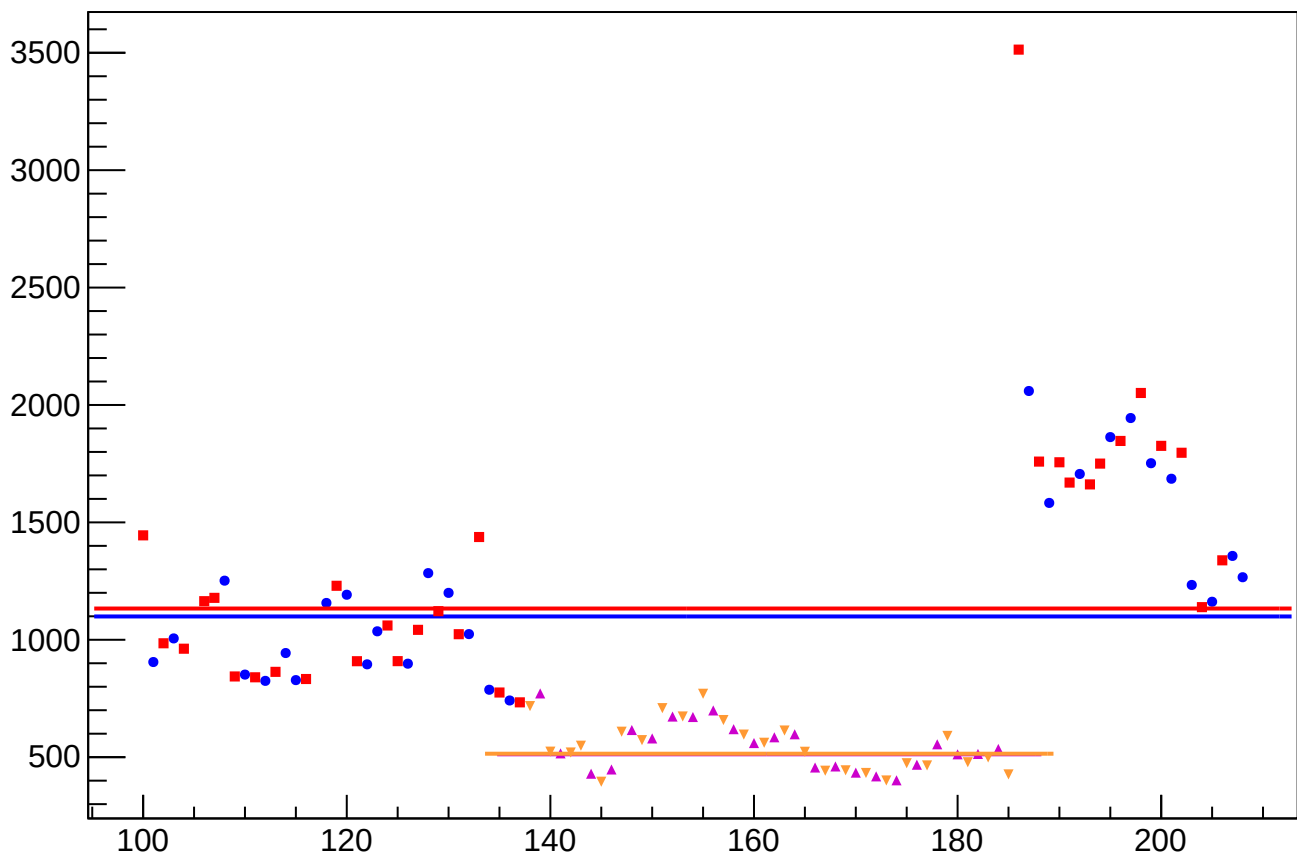
Right: 41.104 $\pm$ 216.247 χ^2 /NDF: 63.7/58

In: -10.071 $\pm$ 115.376 χ^2 /NDF:64.7/50

Out: -415.382 $\pm$ 113.518 χ^2 /NDF:101.3/55

All: -216.016 $\pm$ 80.918 χ^2 /NDF: 172.3/106

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1099.331+/-0.215 χ^2/NDF : 2306610.1/27

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1133.090+/-0.218 χ^2/NDF : 2932656.3/30

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

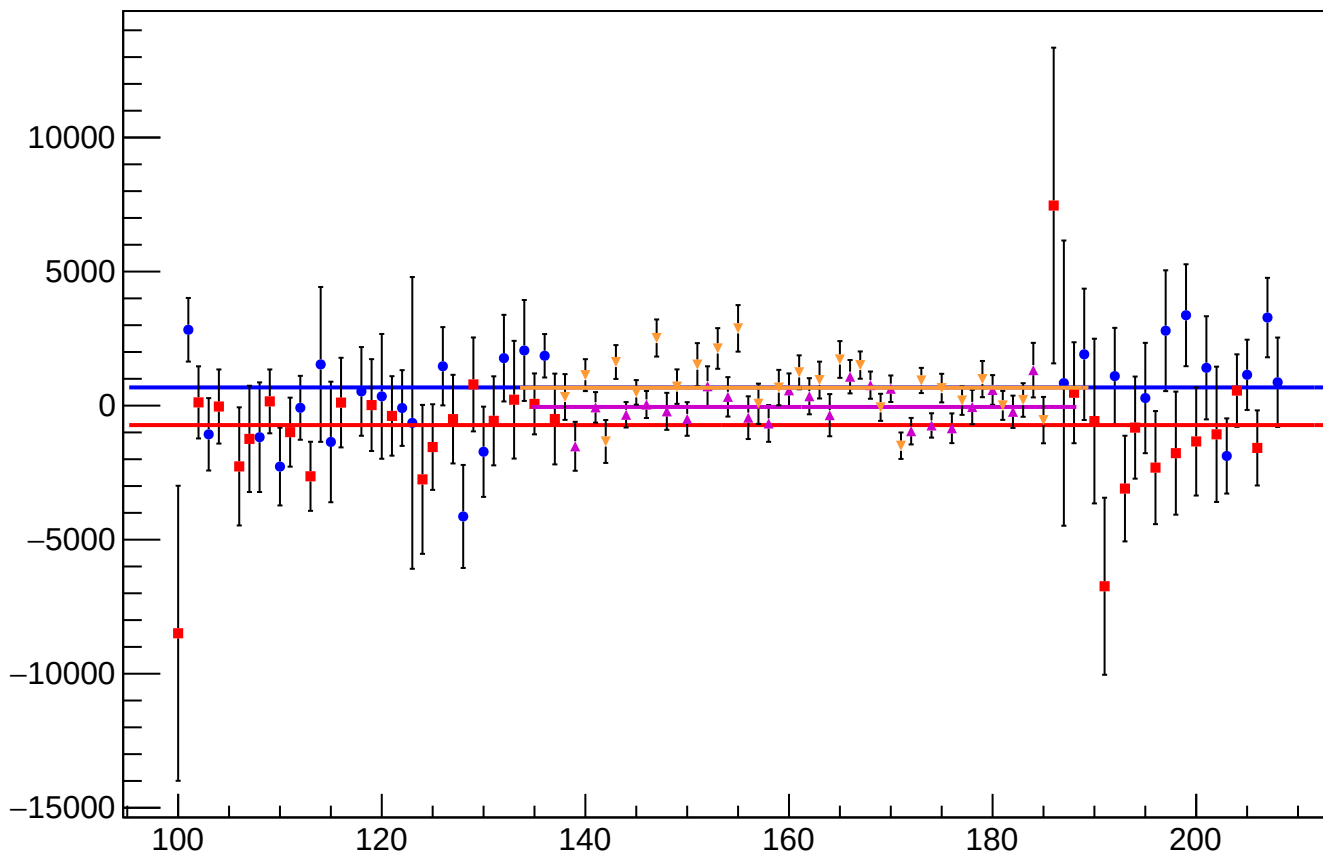
Right: 1115.978+/-0.153 χ^2/NDF : 5251450.0/58

In: 596.917+/-0.082 χ^2/NDF : 9742804.7/50

Out: 598.783+/-0.080 χ^2/NDF : 11095428.6/55

All: 597.865+/-0.057 χ^2/NDF : 20838499.1/10

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 678.852+/-304.873 χ^2/NDF : 33.3/27

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -726.016+/-309.238 χ^2/NDF : 18.0/30

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

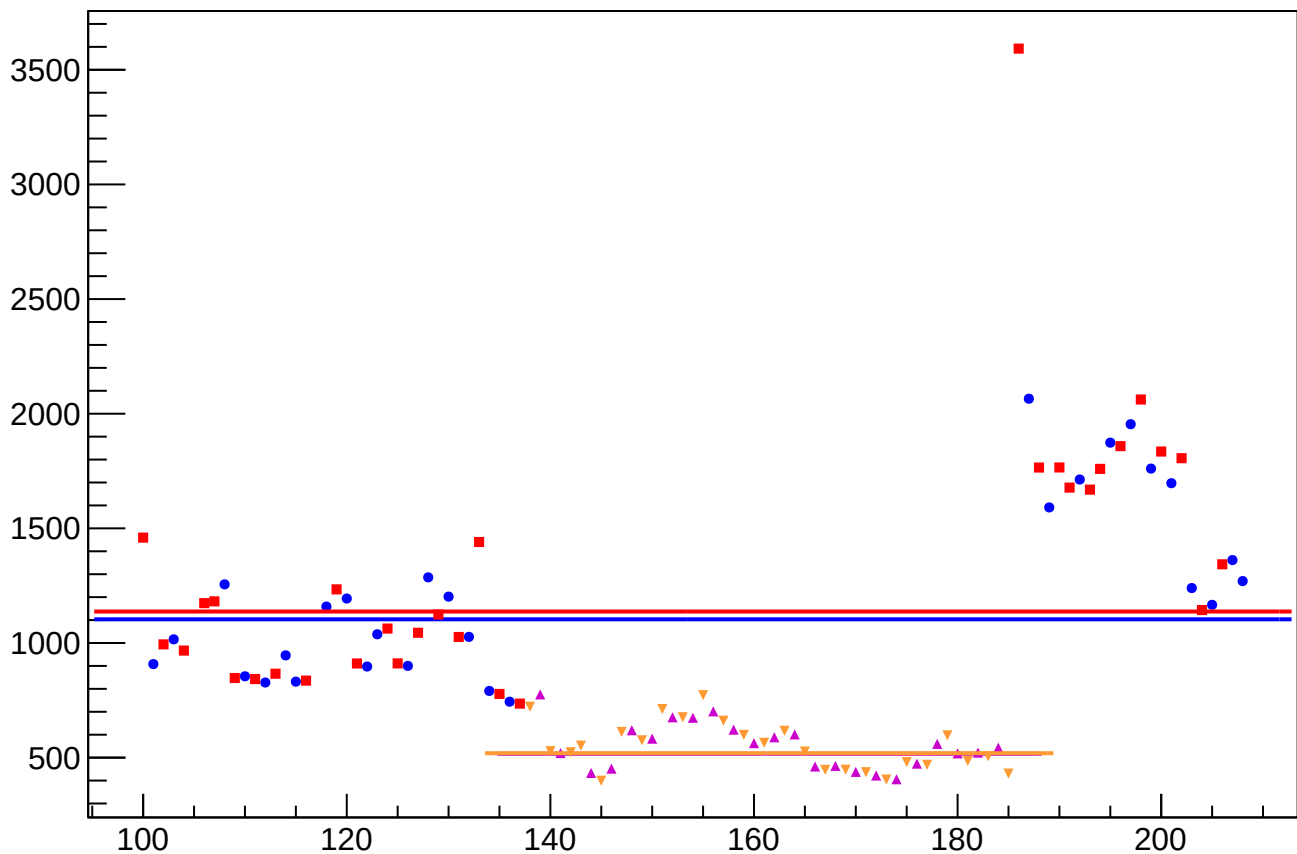
Right: -13.598+/-217.105 χ^2/NDF : 61.8/58

In: 55.982+/-116.293 χ^2/NDF : 64.3/50

Out: 476.869+/-114.408 χ^2/NDF : 97.0/55

All: 269.864+/-81.557 χ^2/NDF : 167.9/106

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1103.306 $\pm$ 0.216 χ^2 /NDF: 2313436.1/27

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1137.270 $\pm$ 0.219 χ^2 /NDF: 2947248.4/30

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

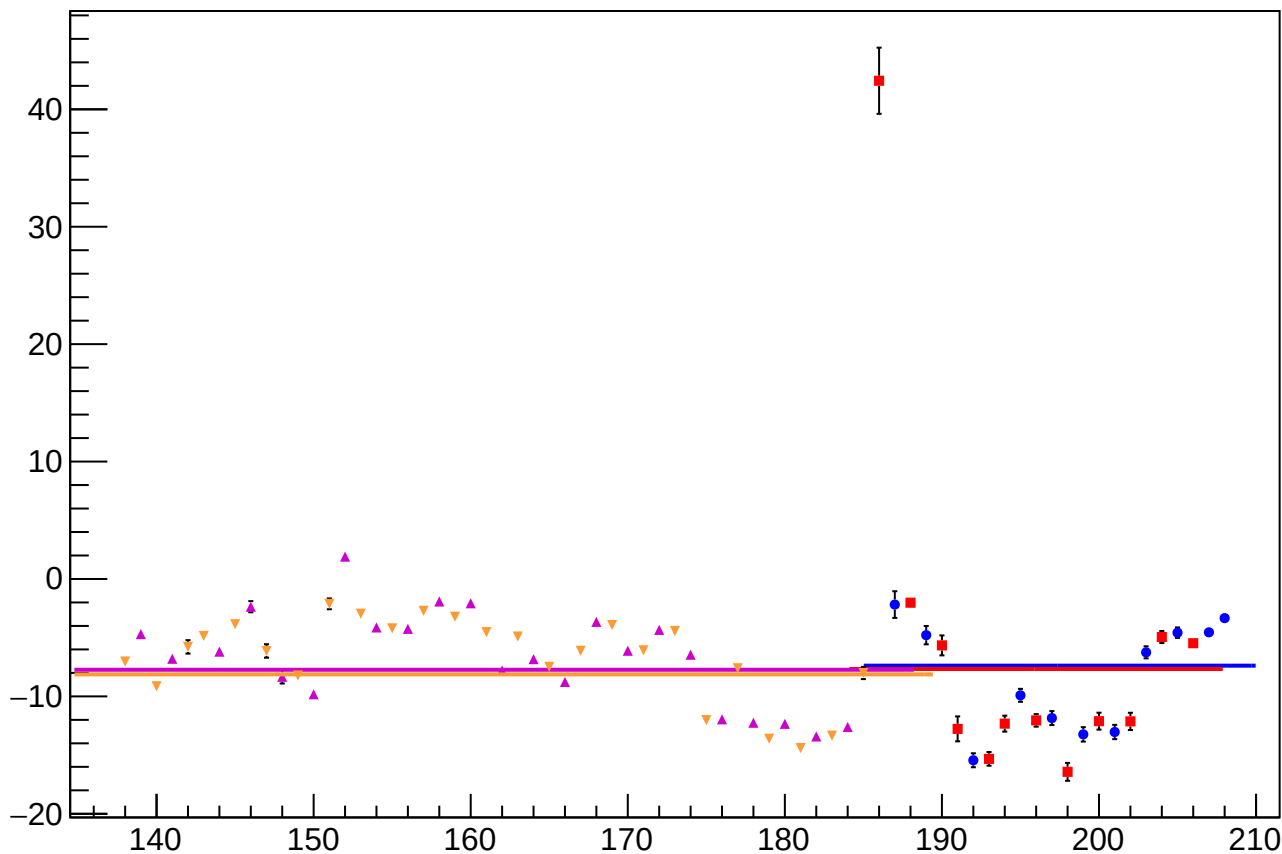
Right: 1120.047 $\pm$ 0.154 χ^2 /NDF: 5272918.7/58

In: 602.131 $\pm$ 0.082 χ^2 /NDF:9659799.7/50

Out: 603.845 $\pm$ 0.081 χ^2 /NDF:11014391.8/55

All: 603.002 $\pm$ 0.058 χ^2 /NDF: 20674412.3/10

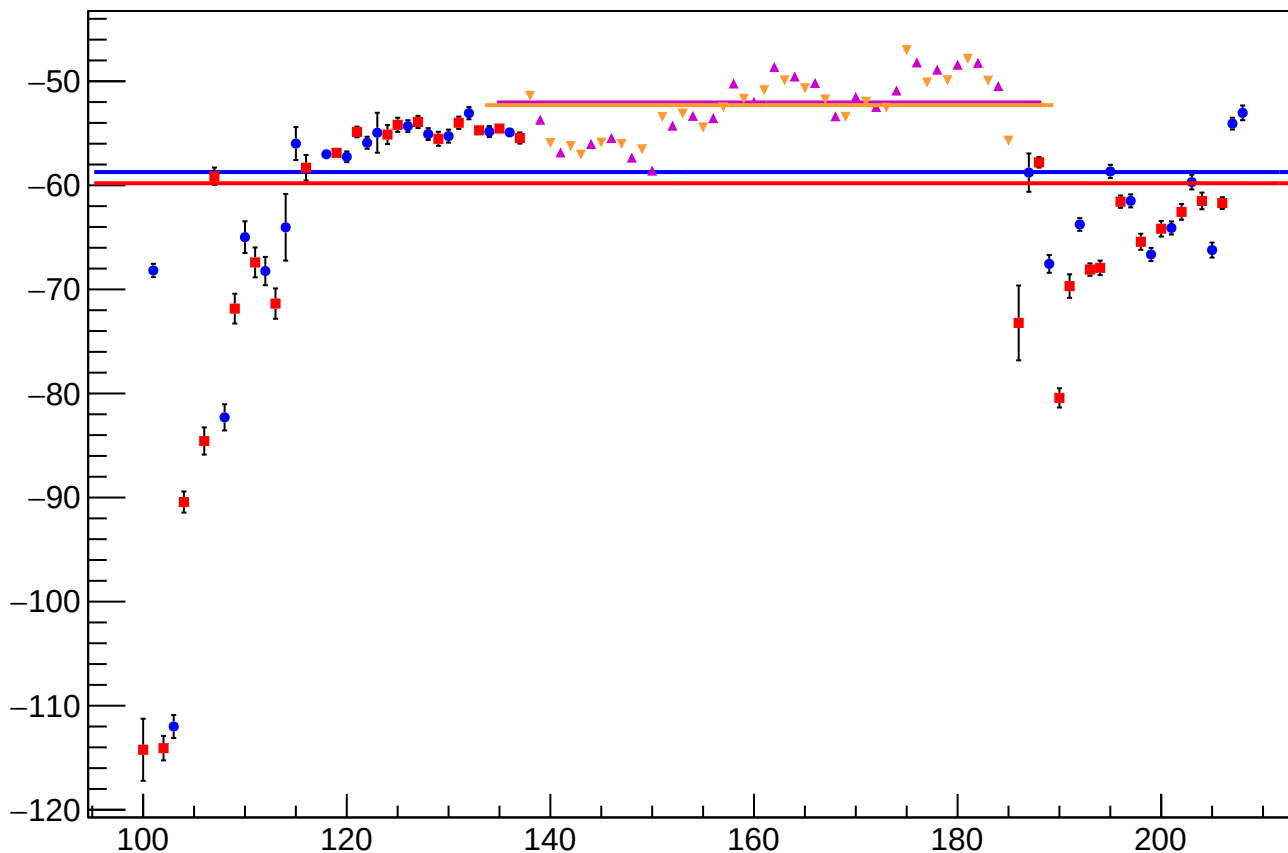
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.383 ± 0.159 χ^2/NDF : 682.0/10
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -7.668 ± 0.167 χ^2/NDF : 1180.3/11
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -7.519 ± 0.115 χ^2/NDF : 1863.8/22
 In: -7.677 ± 0.063 χ^2/NDF : 4405.1/33
 Out: -8.063 ± 0.062 χ^2/NDF : 4822.3/36
 All: -7.872 ± 0.044 χ^2/NDF : 9246.2/70

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.725 ± 0.118 χ^2/NDF : 4186.0/27

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -59.800 ± 0.117 χ^2/NDF : 5969.5/30

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

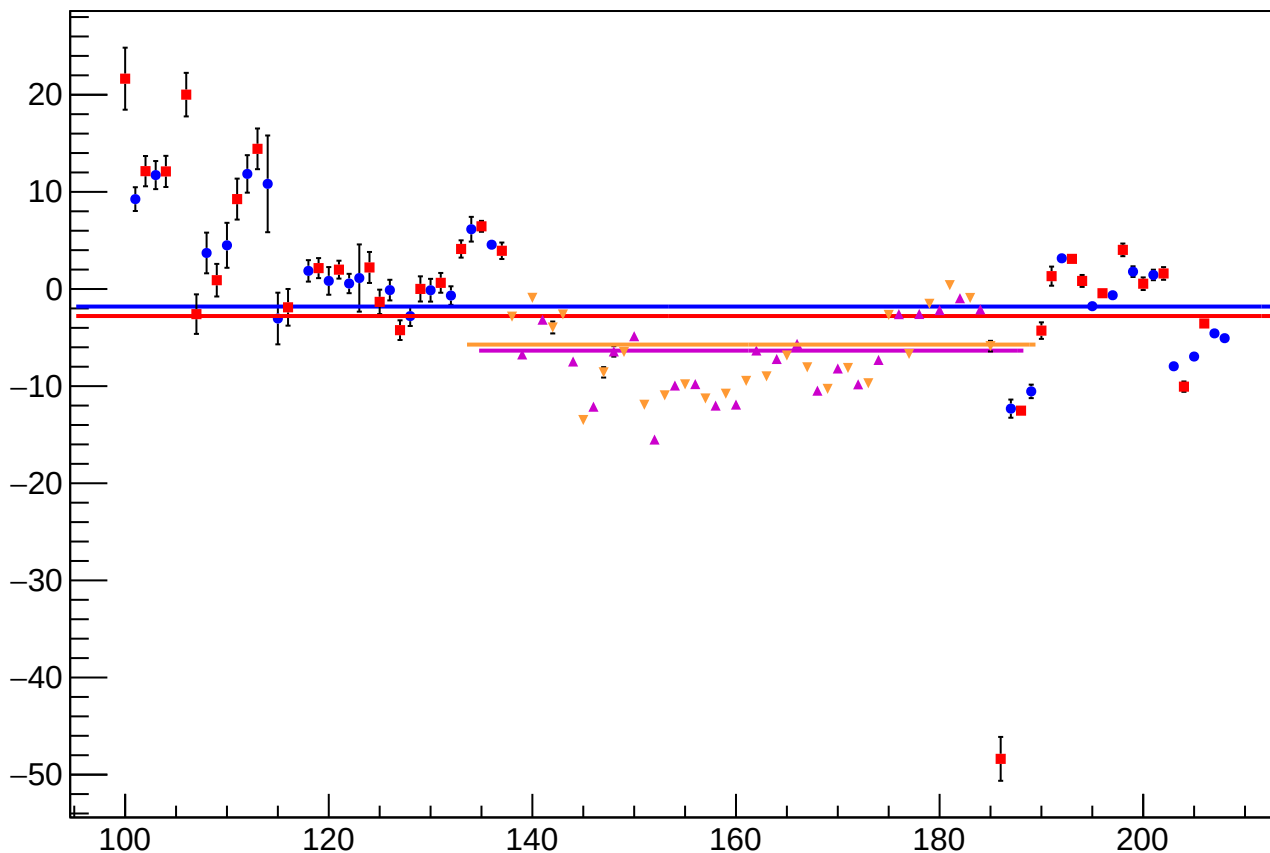
Right: -59.264 ± 0.083 χ^2/NDF : 10197.3/58

In: -53.313 ± 0.051 χ^2/NDF : 9976.8/50

Out: -53.648 ± 0.050 χ^2/NDF : 11972.0/55

All: -53.486 ± 0.036 χ^2/NDF : 21970.8/106

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.806 ± 0.129 χ^2/NDF : 1416.3/27

Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24

Right Out: -2.782 ± 0.130 χ^2/NDF : 3188.3/30

Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47

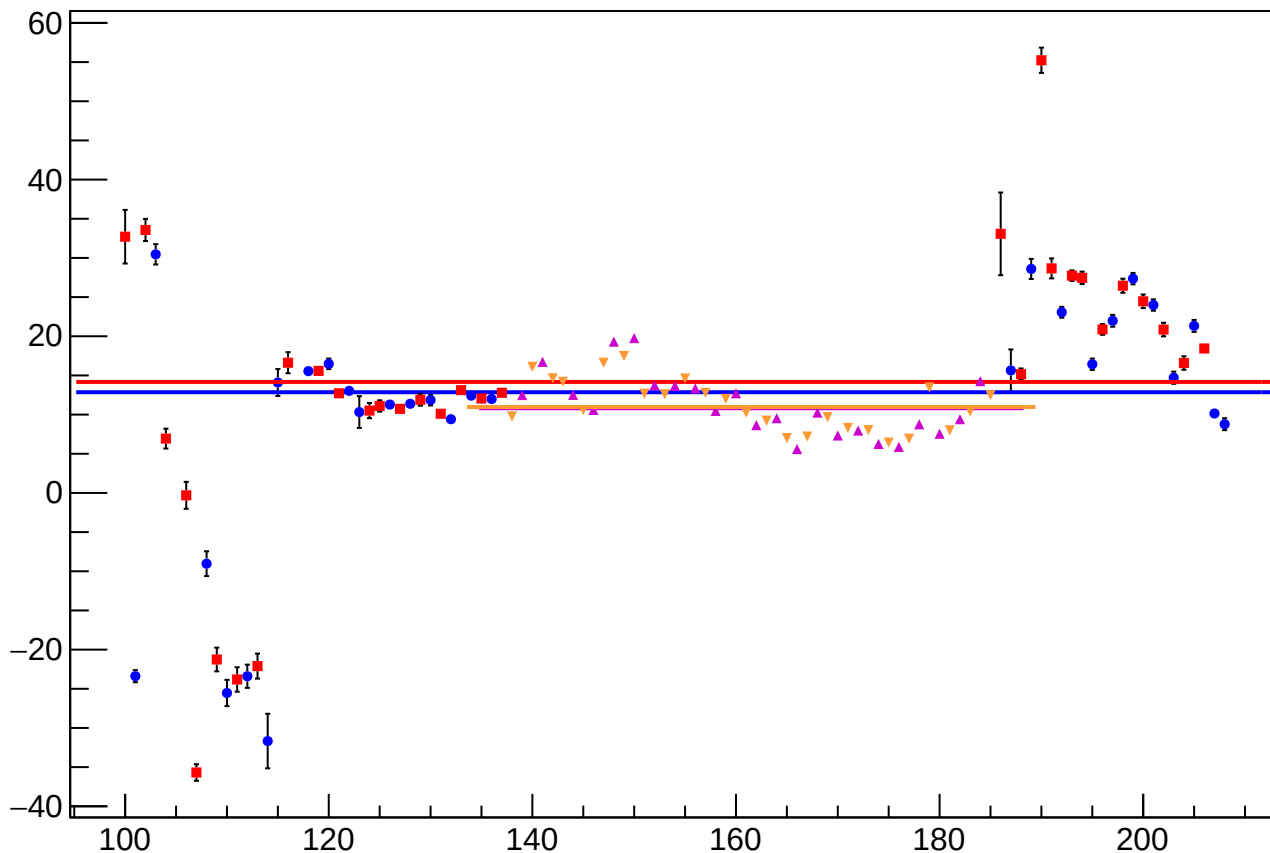
Right: -2.292 ± 0.091 χ^2/NDF : 4633.0/58

In: -5.343 ± 0.061 χ^2/NDF : 5764.3/50

Out: -5.094 ± 0.060 χ^2/NDF : 7575.5/55

All: -5.217 ± 0.043 χ^2/NDF : 13348.3/106

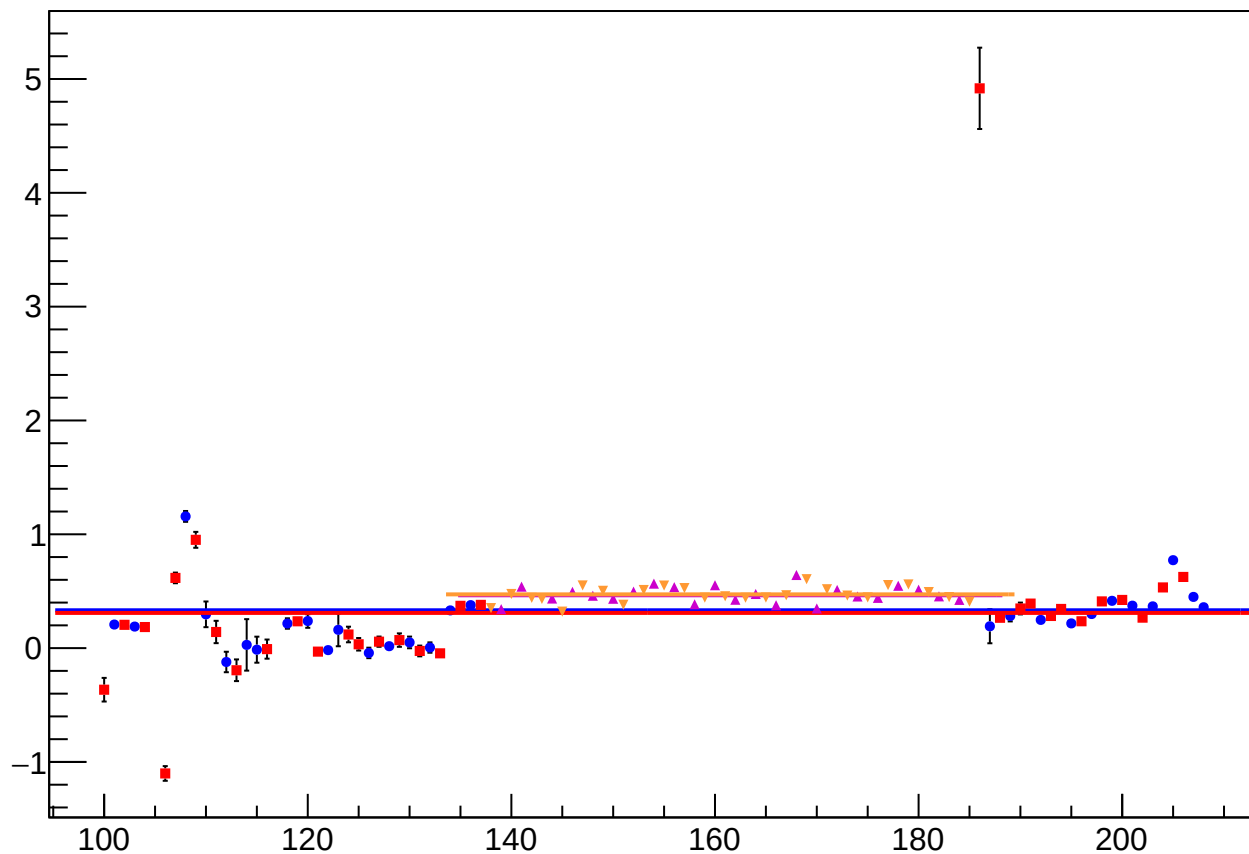
reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.856 $\pm$ 0.131 χ^2 /NDF: 5306.5/27
 Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24
 Right Out: 14.170 $\pm$ 0.134 χ^2 /NDF: 6399.3/30
 Left In: 10.813 $\pm$ 0.063 χ^2 /NDF:3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47
 Right: 13.500 $\pm$ 0.094 χ^2 /NDF: 11754.9/58
 In: 11.197 $\pm$ 0.057 χ^2 /NDF:9049.7/50
 Out: 11.524 $\pm$ 0.056 χ^2 /NDF:9510.2/55
 All: 11.363 $\pm$ 0.040 χ^2 /NDF: 18576.7/106

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.006 χ^2 /NDF: 912.9/27

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.309 $\pm$ 0.006 χ^2 /NDF: 1503.2/30

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

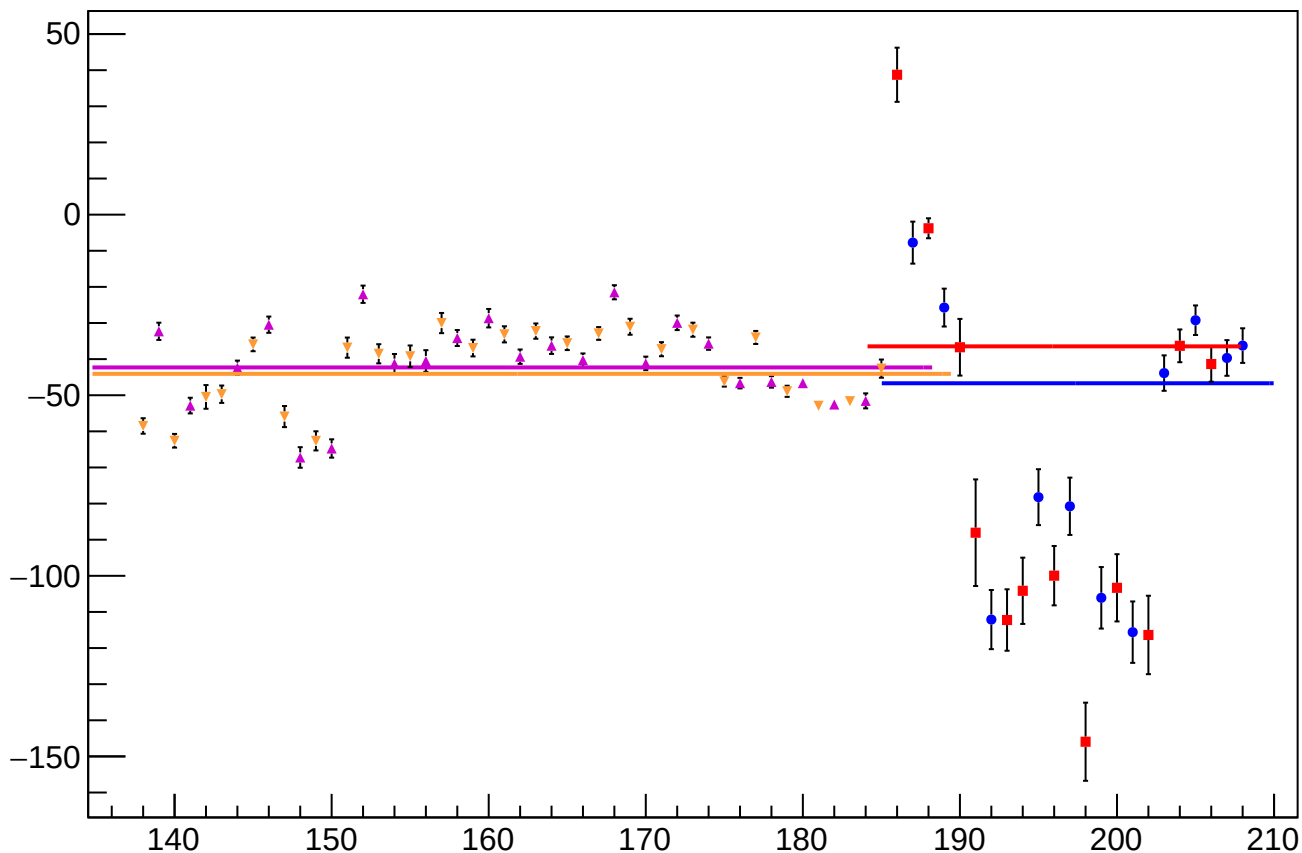
Right: 0.321 $\pm$ 0.004 χ^2 /NDF: 2424.1/58

In: 0.439 $\pm$ 0.002 χ^2 /NDF: 2079.7/50

Out: 0.442 $\pm$ 0.002 χ^2 /NDF: 2662.3/55

All: 0.441 $\pm$ 0.002 χ^2 /NDF: 4743.0/106

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



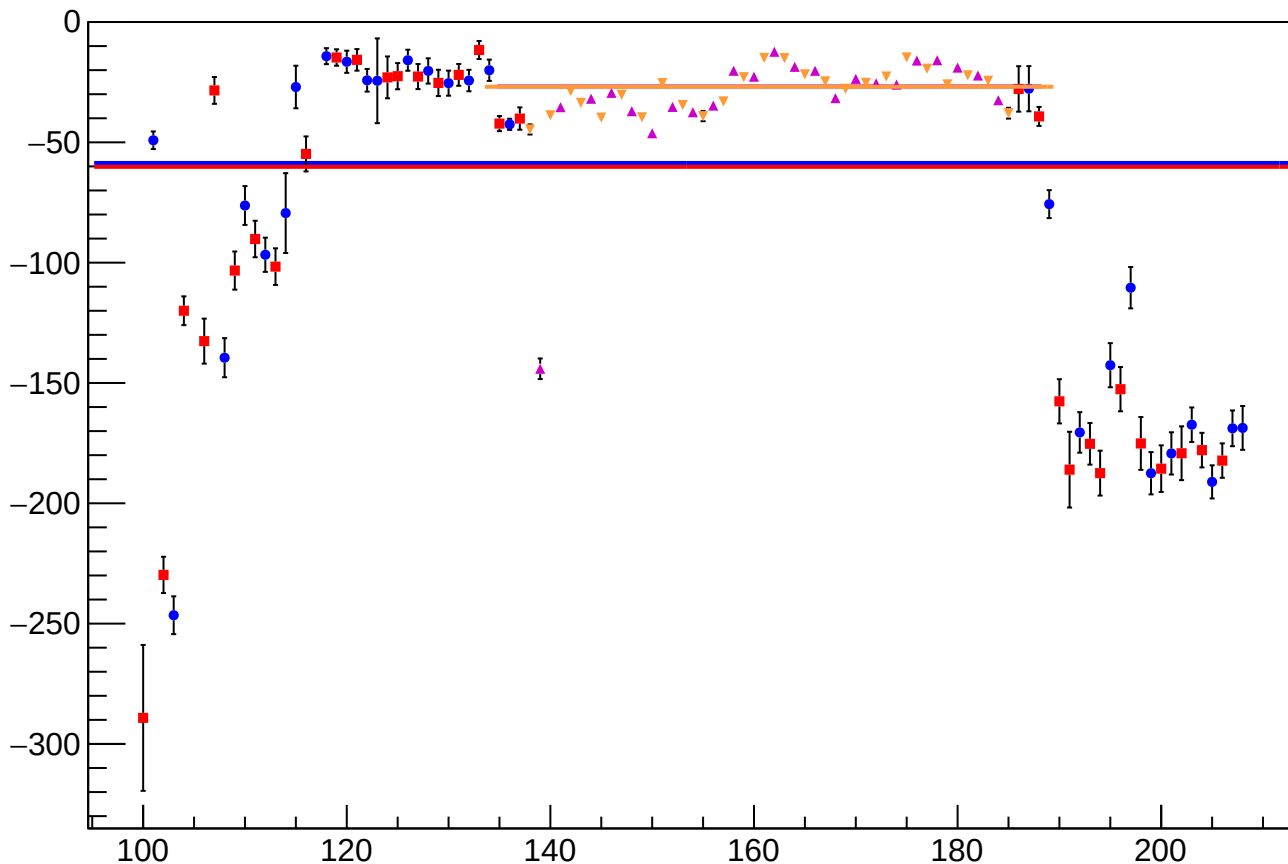
Right In: -46.686 ± 1.749 $\chi^2/\text{NDF}: 299.2/10$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -36.469 ± 1.744 $\chi^2/\text{NDF}: 655.0/11$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -41.560 ± 1.235 $\chi^2/\text{NDF}: 971.4/22$

In: -42.521 ± 0.389 $\chi^2/\text{NDF}: 945.8/33$
 Out: -43.717 ± 0.379 $\chi^2/\text{NDF}: 1305.7/36$

All: -43.134 ± 0.272 $\chi^2/\text{NDF}: 2256.4/70$

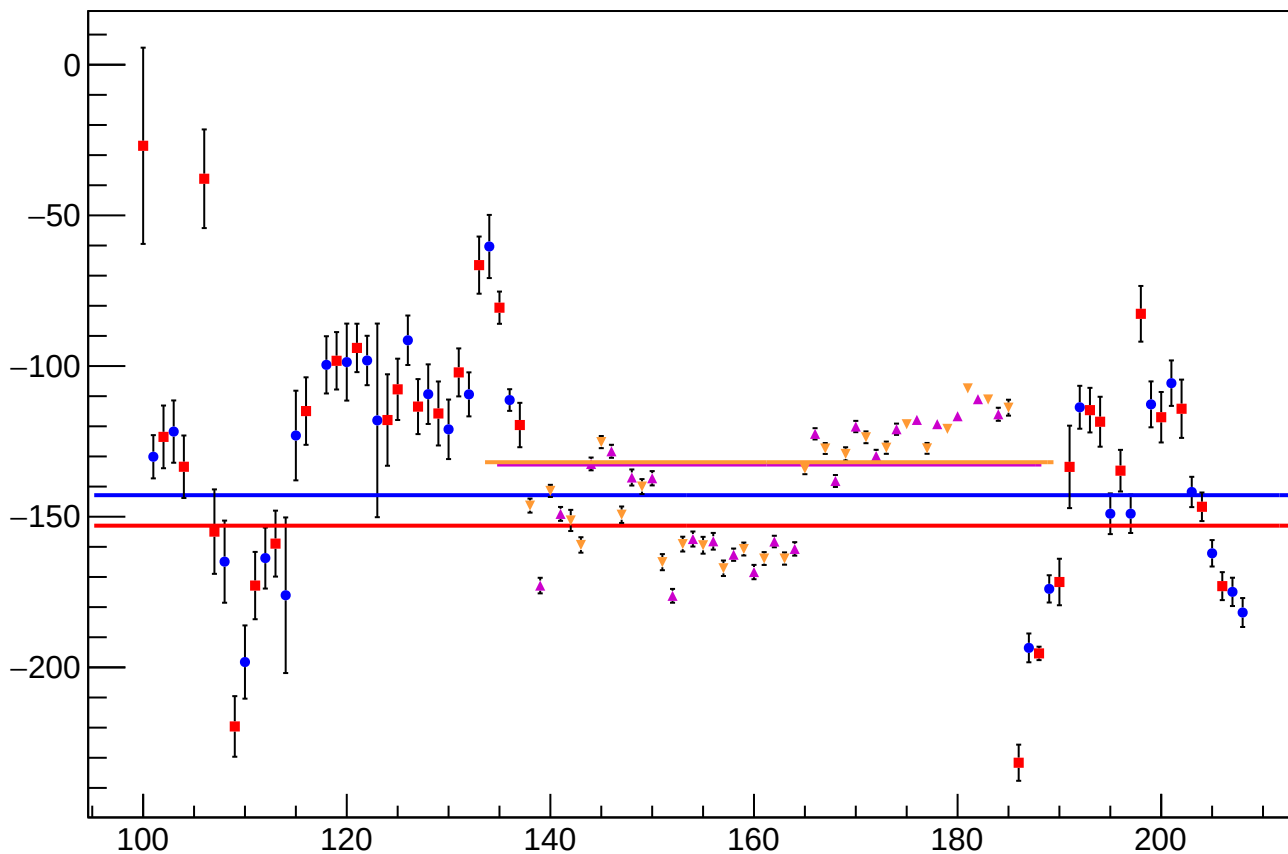
reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.568 ± 1.035 $\chi^2/\text{NDF}: 3104.8/27$
 Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$
 Right Out: -60.183 ± 1.069 $\chi^2/\text{NDF}: 3187.4/30$
 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: -59.349 ± 0.744 $\chi^2/\text{NDF}: 6293.4/58$
 In: -29.650 ± 0.311 $\chi^2/\text{NDF}: 5358.0/50$
 Out: -29.580 ± 0.303 $\chi^2/\text{NDF}: 4709.5/55$
 All: -29.614 ± 0.217 $\chi^2/\text{NDF}: 10067.5/106$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -142.854 ± 1.287 χ^2/NDF : 667.0/27

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -152.972 ± 1.253 χ^2/NDF : 1311.1/30

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

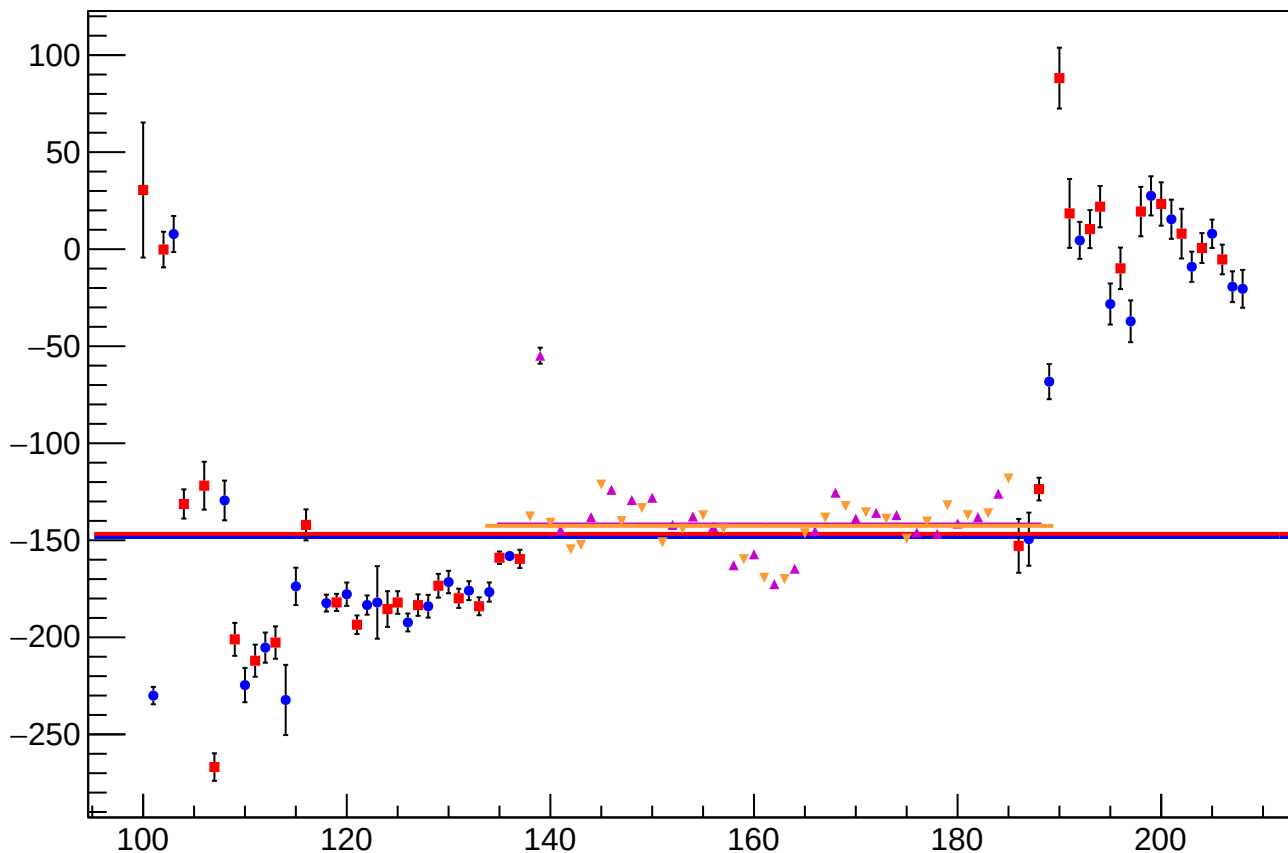
Right: -148.047 ± 0.898 χ^2/NDF : 2009.8/58

In: -133.583 ± 0.381 χ^2/NDF : 3204.1/50

Out: -133.785 ± 0.374 χ^2/NDF : 4007.7/55

All: -133.686 ± 0.267 χ^2/NDF : 7212.0/106

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -148.278 ± 1.163 χ^2/NDF : 3493.0/27

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -146.706 ± 1.226 χ^2/NDF : 3390.3/30

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

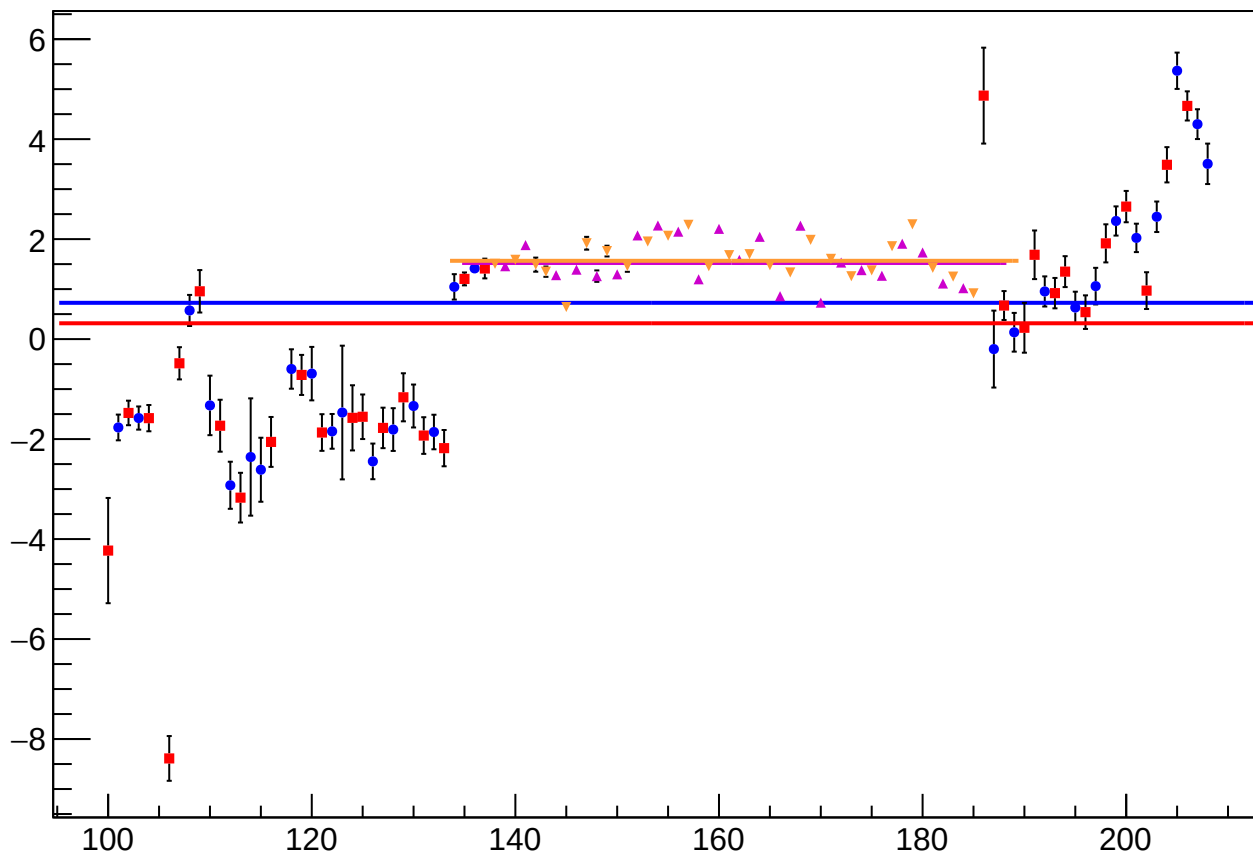
Right: -147.533 ± 0.844 χ^2/NDF : 6884.1/58

In: -142.428 ± 0.347 χ^2/NDF : 5065.0/50

Out: -142.883 ± 0.340 χ^2/NDF : 4548.5/55

All: -142.660 ± 0.243 χ^2/NDF : 9614.4/106

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.726 ± 0.056 $\chi^2/\text{NDF}: 1063.3/27$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 0.317 ± 0.059 $\chi^2/\text{NDF}: 1292.5/30$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

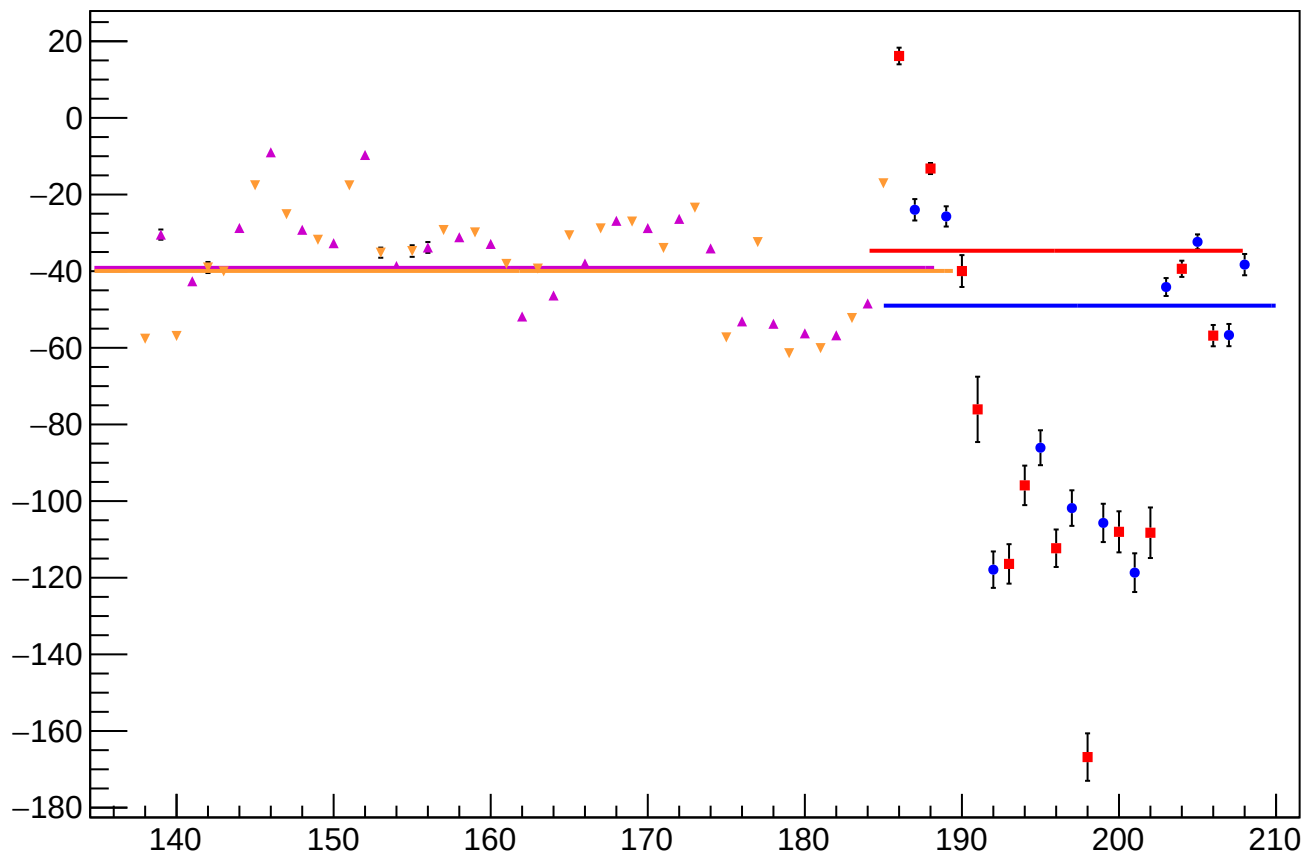
Right: 0.530 ± 0.040 $\chi^2/\text{NDF}: 2381.3/58$

In: 1.459 ± 0.016 $\chi^2/\text{NDF}: 1987.7/50$

Out: 1.477 ± 0.016 $\chi^2/\text{NDF}: 2258.7/55$

All: 1.469 ± 0.011 $\chi^2/\text{NDF}: 4247.1/106$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -48.998 ± 0.919 χ^2/NDF : 981.9/10

Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24

Right Out: -34.669 ± 0.870 χ^2/NDF : 2275.6/11

Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47

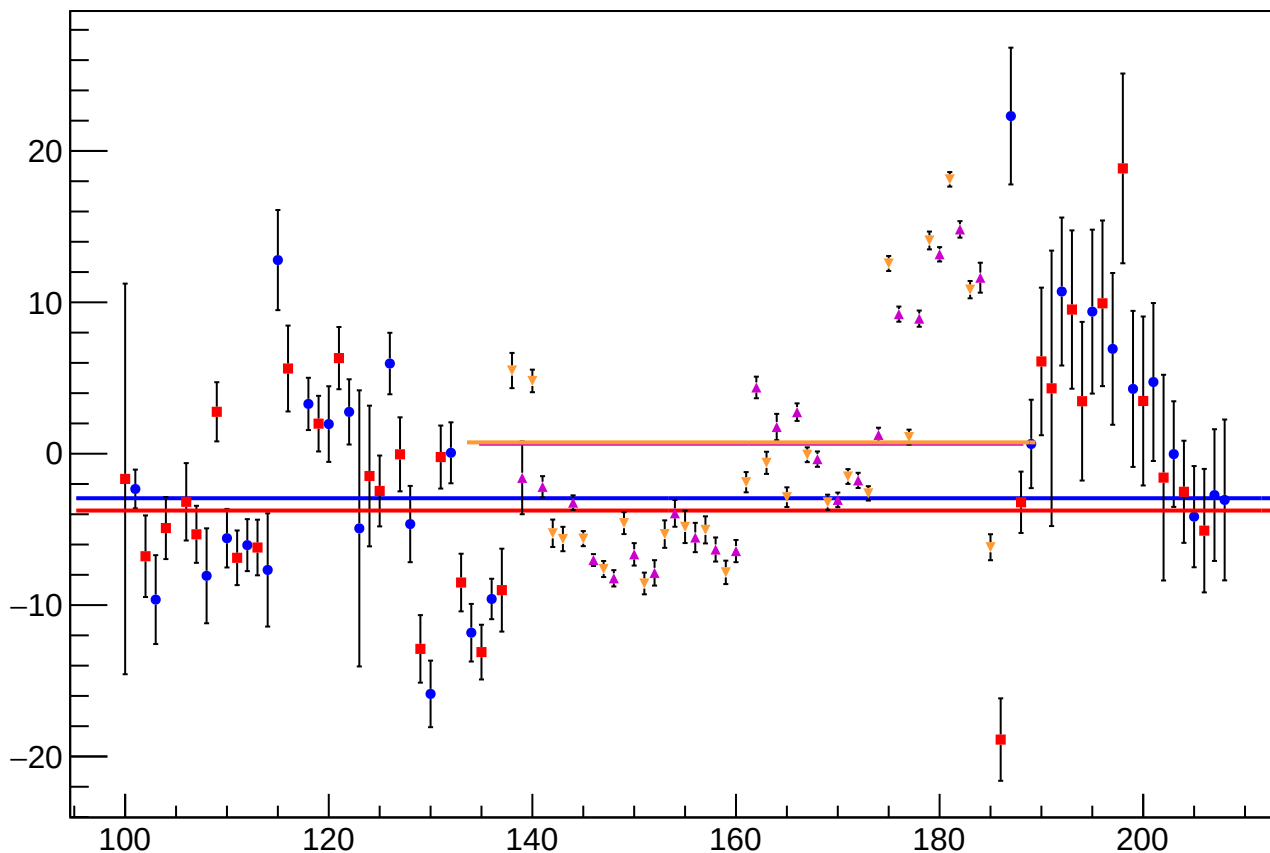
Right: -41.446 ± 0.632 χ^2/NDF : 3385.6/22

In: -39.409 ± 0.152 χ^2/NDF : 9628.4/33

Out: -39.777 ± 0.151 χ^2/NDF : 12117.6/36

All: -39.595 ± 0.107 χ^2/NDF : 21748.9/70

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.941 ± 0.465 χ^2/NDF : 219.0/27

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.754 ± 0.464 χ^2/NDF : 187.6/30

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

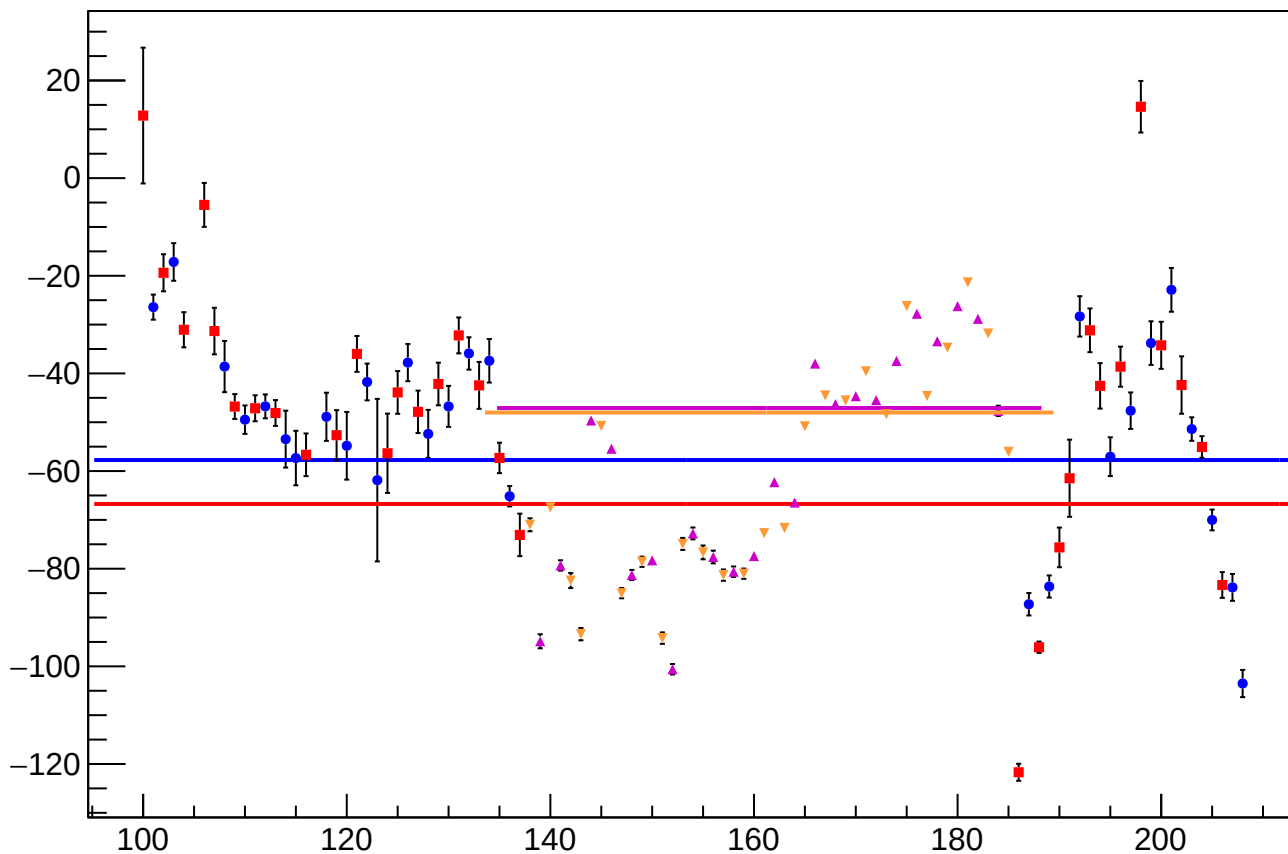
Right: -3.349 ± 0.328 χ^2/NDF : 408.1/58

In: 0.420 ± 0.120 χ^2/NDF : 3612.8/50

Out: 0.448 ± 0.120 χ^2/NDF : 4246.4/55

All: 0.434 ± 0.085 χ^2/NDF : 7859.3/106

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.739 ± 0.619 χ^2/NDF : 1279.0/27

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -66.736 ± 0.572 χ^2/NDF : 3122.0/30

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

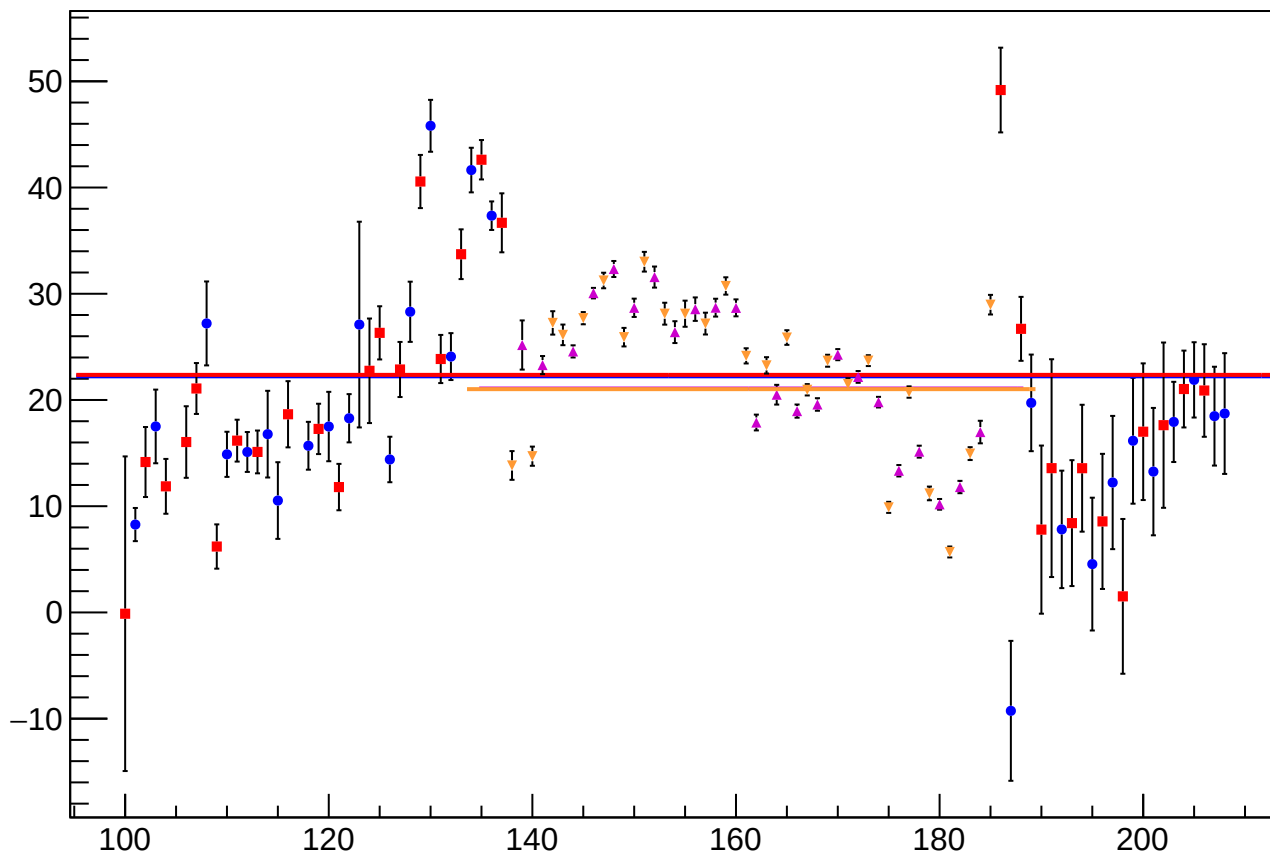
Right: -62.590 ± 0.420 χ^2/NDF : 4514.8/58

In: -47.716 ± 0.151 χ^2/NDF : 17072.8/50

Out: -49.282 ± 0.149 χ^2/NDF : 21069.7/55

All: -48.506 ± 0.106 χ^2/NDF : 38197.1/106

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.227 $\pm$ 0.525 χ^2 /NDF: 506.0/27

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.364 $\pm$ 0.534 χ^2 /NDF: 439.6/30

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

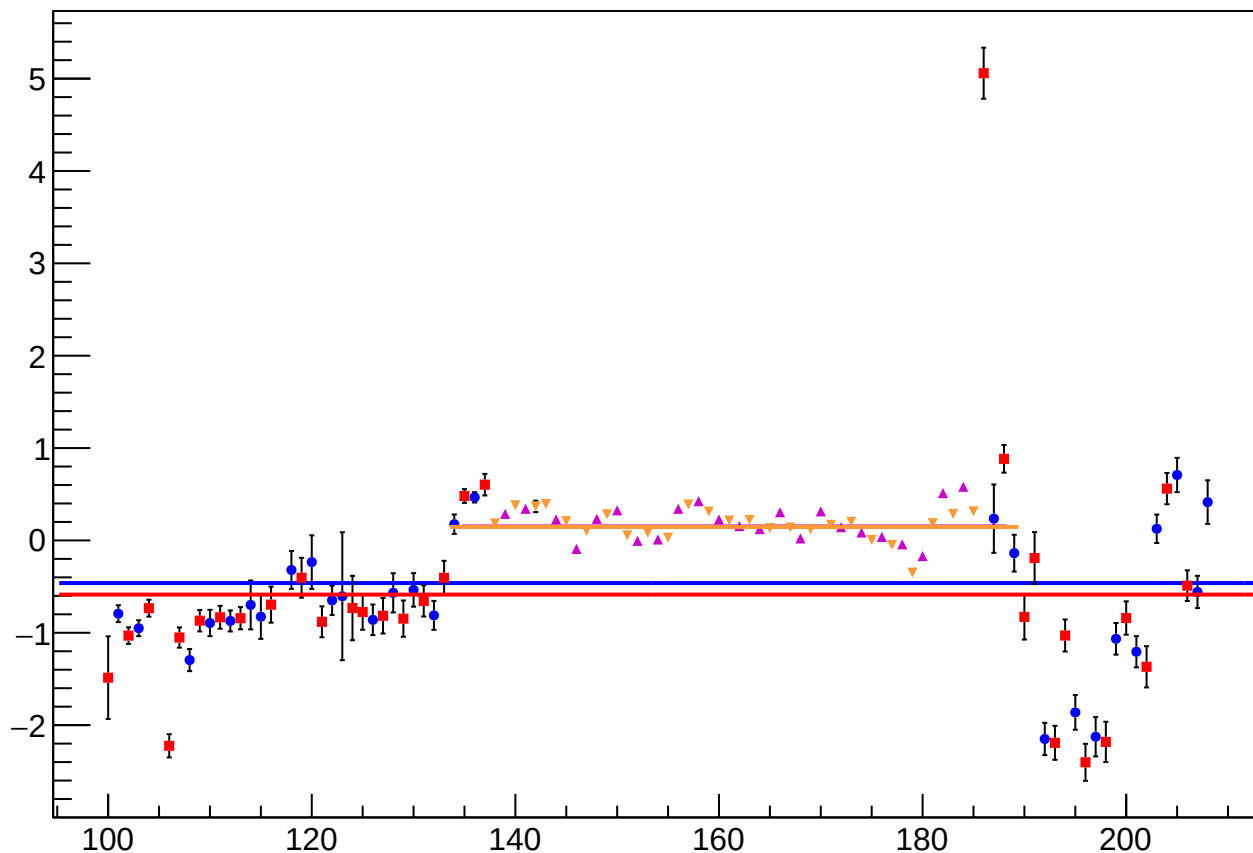
Right: 22.294 $\pm$ 0.374 χ^2 /NDF: 945.7/58

In: 21.155 $\pm$ 0.135 χ^2 /NDF:2683.7/50

Out: 21.105 $\pm$ 0.134 χ^2 /NDF:3244.8/55

All: 21.130 $\pm$ 0.095 χ^2 /NDF: 5928.6/106

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.462 ± 0.027 $\chi^2/\text{NDF}: 762.1/27$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.587 ± 0.027 $\chi^2/\text{NDF}: 1347.4/30$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

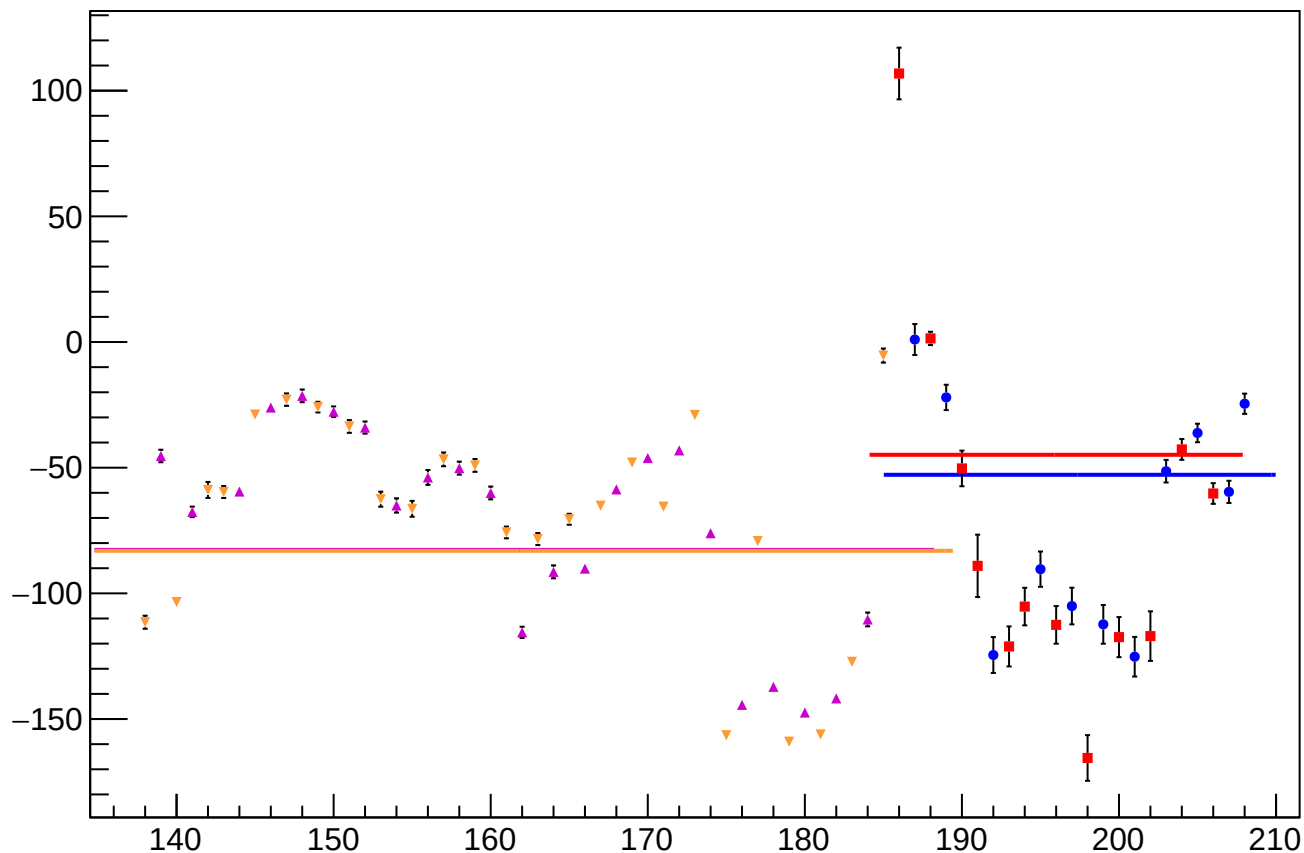
Right: -0.524 ± 0.019 $\chi^2/\text{NDF}: 2120.5/58$

In: 0.118 ± 0.006 $\chi^2/\text{NDF}: 2131.0/50$

Out: 0.107 ± 0.006 $\chi^2/\text{NDF}: 2674.6/55$

All: 0.112 ± 0.004 $\chi^2/\text{NDF}: 4807.1/106$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -52.827 ± 1.594 $\chi^2/\text{NDF}: 510.7/10$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -44.868 ± 1.612 $\chi^2/\text{NDF}: 1100.9/11$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

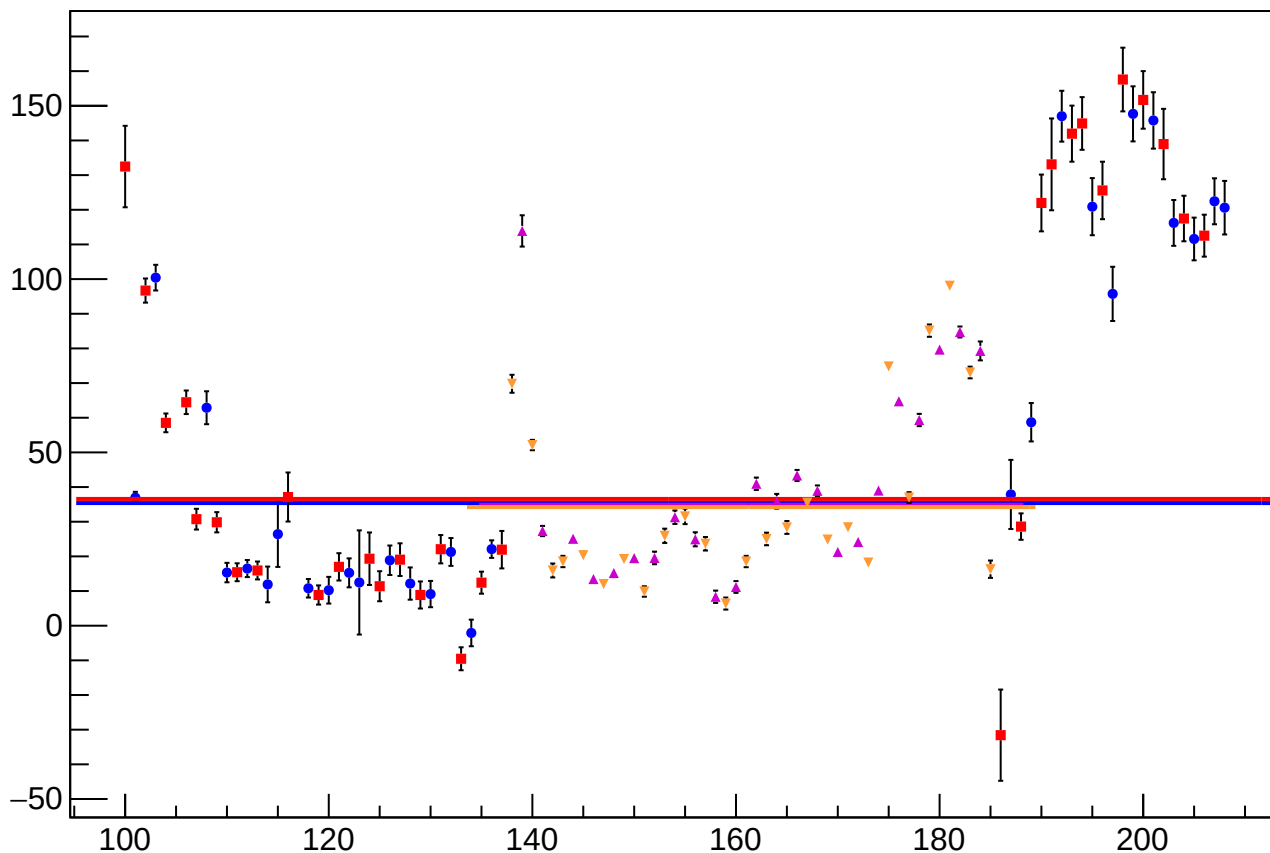
Right: -48.893 ± 1.134 $\chi^2/\text{NDF}: 1623.8/22$

In: -80.813 ± 0.402 $\chi^2/\text{NDF}: 11681.2/33$

Out: -80.786 ± 0.394 $\chi^2/\text{NDF}: 15446.0/36$

All: -80.799 ± 0.281 $\chi^2/\text{NDF}: 27127.2/70$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.381 $\pm$ 0.757 χ^2 /NDF: 2247.2/27

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 36.576 $\pm$ 0.756 χ^2 /NDF: 2594.4/30

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

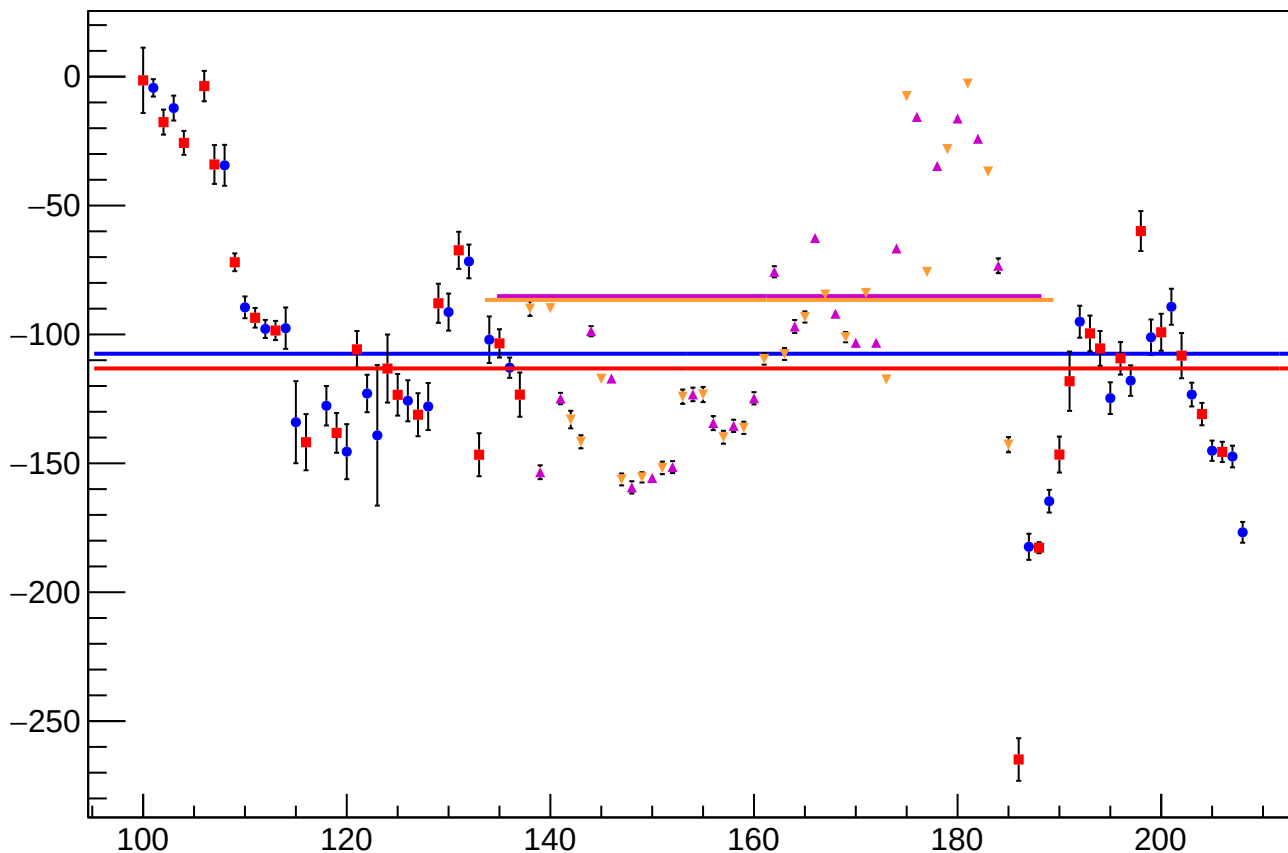
Right: 35.979 $\pm$ 0.535 χ^2 /NDF: 4842.9/58

In: 34.951 $\pm$ 0.302 χ^2 /NDF:6963.7/50

Out: 34.578 $\pm$ 0.295 χ^2 /NDF:8795.3/55

All: 34.760 $\pm$ 0.211 χ^2 /NDF: 15759.7/106

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -107.485 $\pm$ 1.031 χ^2/NDF : 2412.0/27

Left Out: -86.595 $\pm$ 0.408 χ^2/NDF :14515.7/24

Right Out: -113.190 $\pm$ 0.980 χ^2/NDF : 3113.1/30

Left In: -85.134 $\pm$ 0.415 χ^2/NDF :12841.3/22

Left: -85.876 $\pm$ 0.291 χ^2/NDF : 27363.3/47

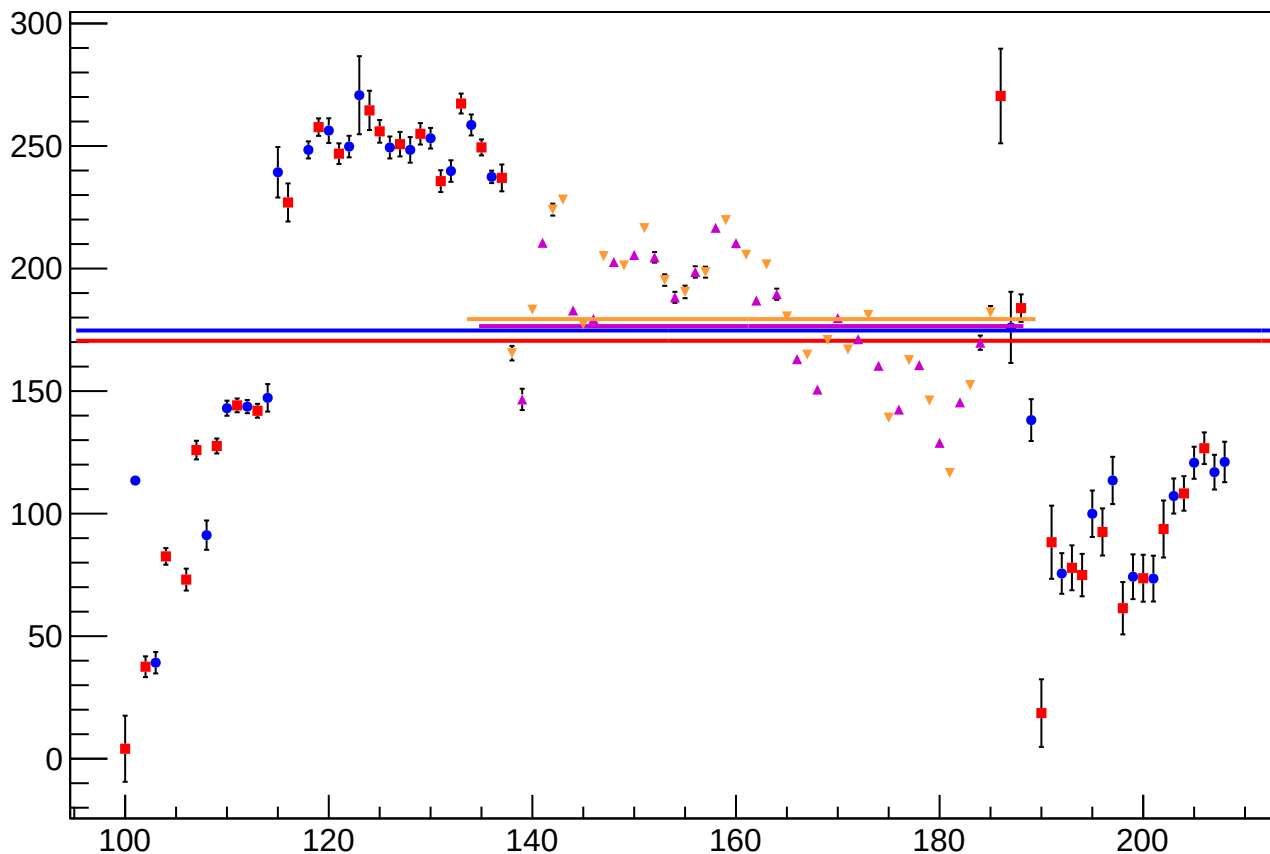
Right: -110.483 $\pm$ 0.710 χ^2/NDF : 5541.1/58

In: -88.248 $\pm$ 0.385 χ^2/NDF :15657.4/50

Out: -90.530 $\pm$ 0.377 χ^2/NDF :18256.1/55

All: -89.413 $\pm$ 0.269 χ^2/NDF : 33931.4/106

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 174.726 $\pm$ 0.865 χ^2 /NDF: 6175.4/27

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 170.529 $\pm$ 0.870 χ^2 /NDF: 7247.7/30

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

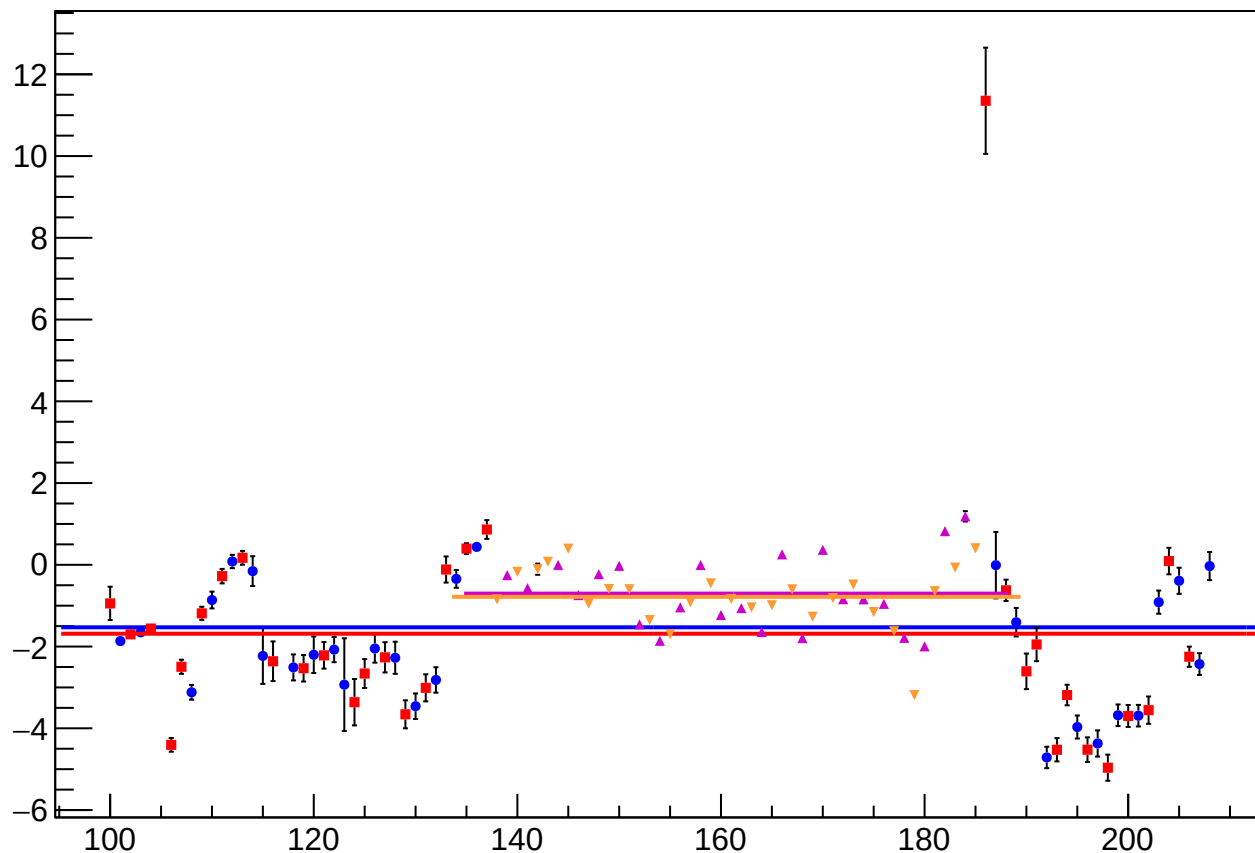
Right: 172.641 $\pm$ 0.614 χ^2 /NDF: 13434.8/58

In: 176.251 $\pm$ 0.341 χ^2 /NDF: 10605.0/50

Out: 178.058 $\pm$ 0.334 χ^2 /NDF: 13317.7/55

All: 177.172 $\pm$ 0.239 χ^2 /NDF: 23937.0/106

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.529 ± 0.043 χ^2/NDF : 1154.2/27

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.686 ± 0.041 χ^2/NDF : 1534.9/30

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

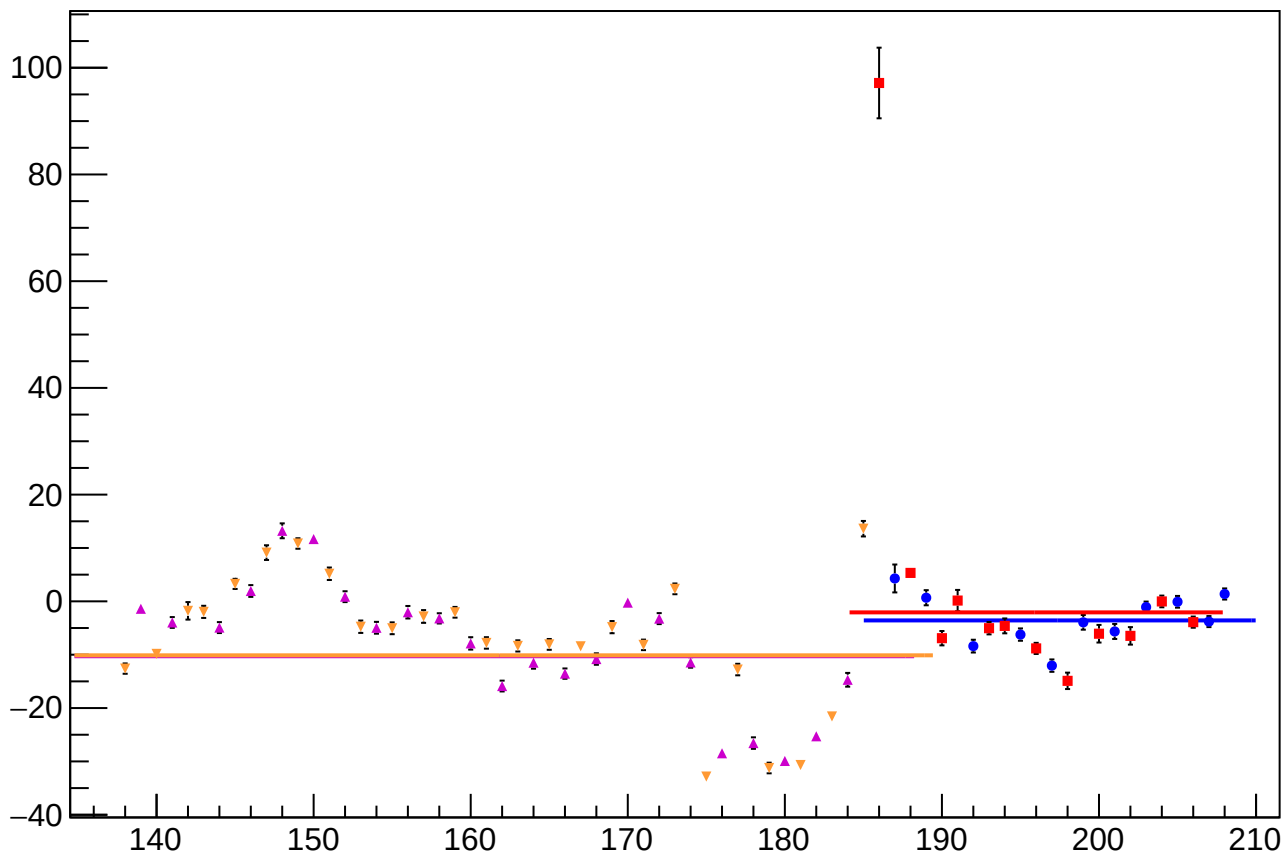
Right: -1.611 ± 0.029 χ^2/NDF : 2696.2/58

In: -0.817 ± 0.016 χ^2/NDF : 3884.8/50

Out: -0.911 ± 0.015 χ^2/NDF : 3725.8/55

All: -0.865 ± 0.011 χ^2/NDF : 7629.1/106

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.576 ± 0.365 $\chi^2/\text{NDF}: 133.5/10$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -2.069 ± 0.346 $\chi^2/\text{NDF}: 513.6/11$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

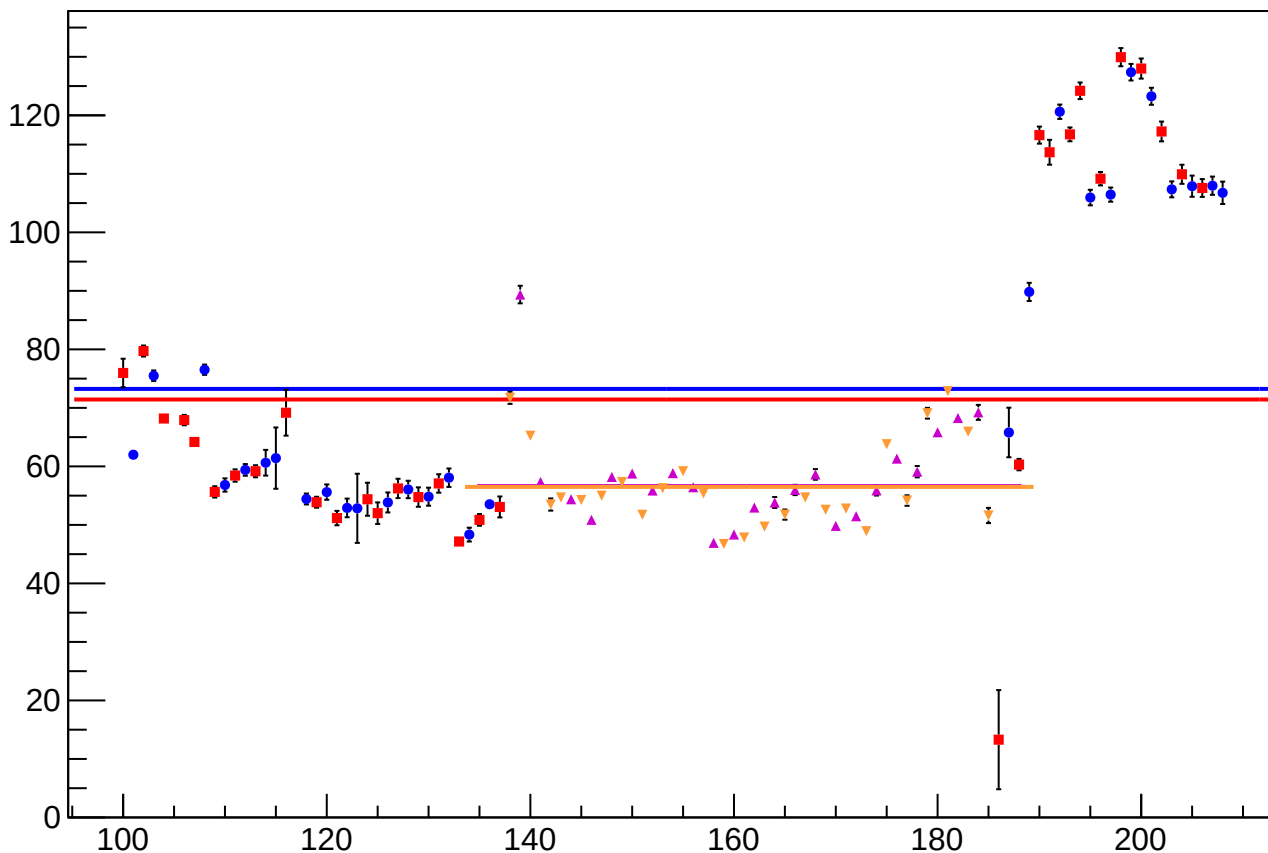
Right: -2.782 ± 0.251 $\chi^2/\text{NDF}: 656.1/22$

In: -8.678 ± 0.179 $\chi^2/\text{NDF}: 3841.1/33$

Out: -8.081 ± 0.174 $\chi^2/\text{NDF}: 5055.8/36$

All: -8.371 ± 0.125 $\chi^2/\text{NDF}: 8902.6/70$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 73.242 $\pm$ 0.228 χ^2 /NDF: 10618.4/27

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 71.432 $\pm$ 0.214 χ^2 /NDF: 13503.4/30

Left In: 56.635 $\pm$ 0.165 χ^2 /NDF:1607.9/22

Left: 56.563 $\pm$ 0.114 χ^2 /NDF: 3576.3/47

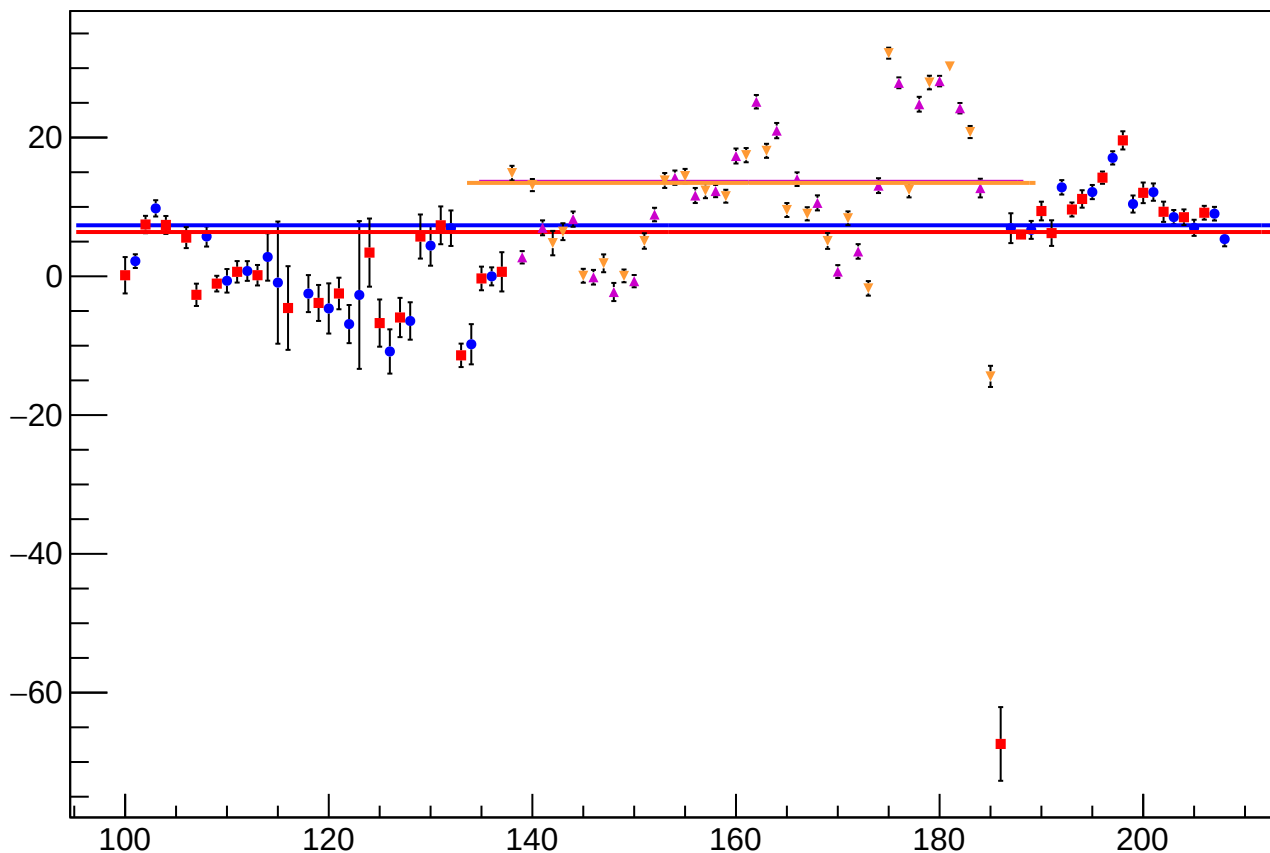
Right: 72.280 $\pm$ 0.156 χ^2 /NDF: 24155.4/58

In: 62.363 $\pm$ 0.134 χ^2 /NDF:15714.7/50

Out: 61.815 $\pm$ 0.127 χ^2 /NDF:18618.8/55

All: 62.076 $\pm$ 0.092 χ^2 /NDF: 34342.3/106

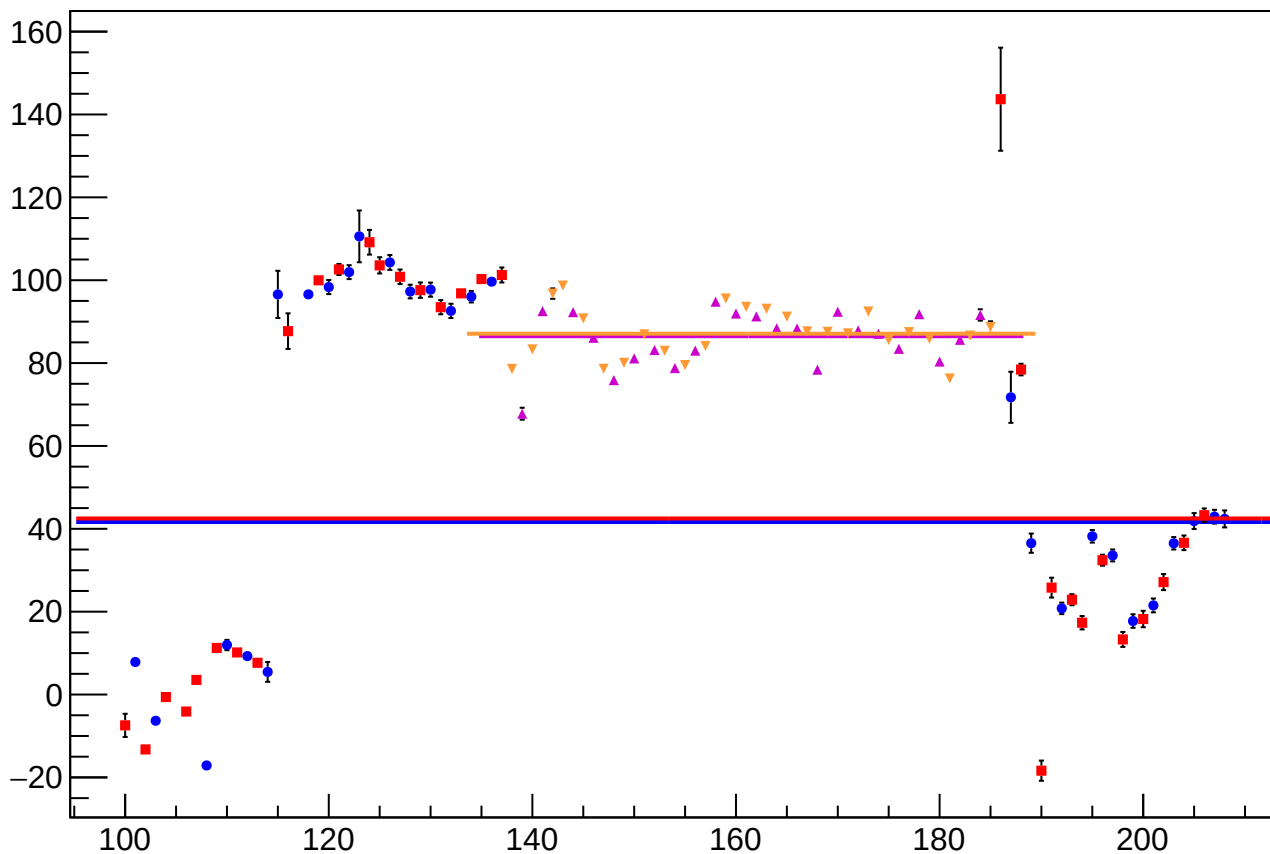
reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.352 ± 0.272 $\chi^2/\text{NDF}: 440.1/27$
 Left Out: 13.462 ± 0.202 $\chi^2/\text{NDF}: 2736.3/24$
 Right Out: 6.381 ± 0.248 $\chi^2/\text{NDF}: 745.8/30$
 Left In: 13.620 ± 0.204 $\chi^2/\text{NDF}: 2315.4/22$

Left: 13.540 ± 0.144 $\chi^2/\text{NDF}: 5052.0/47$
 Right: 6.821 ± 0.183 $\chi^2/\text{NDF}: 1192.9/58$
 In: 11.361 ± 0.163 $\chi^2/\text{NDF}: 3094.1/50$
 Out: 10.640 ± 0.156 $\chi^2/\text{NDF}: 3974.3/55$
 All: 10.984 ± 0.113 $\chi^2/\text{NDF}: 7078.6/106$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.644 $\pm$ 0.263 χ^2 /NDF: 25471.3/27

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.495 $\pm$ 0.251 χ^2 /NDF: 30757.1/30

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

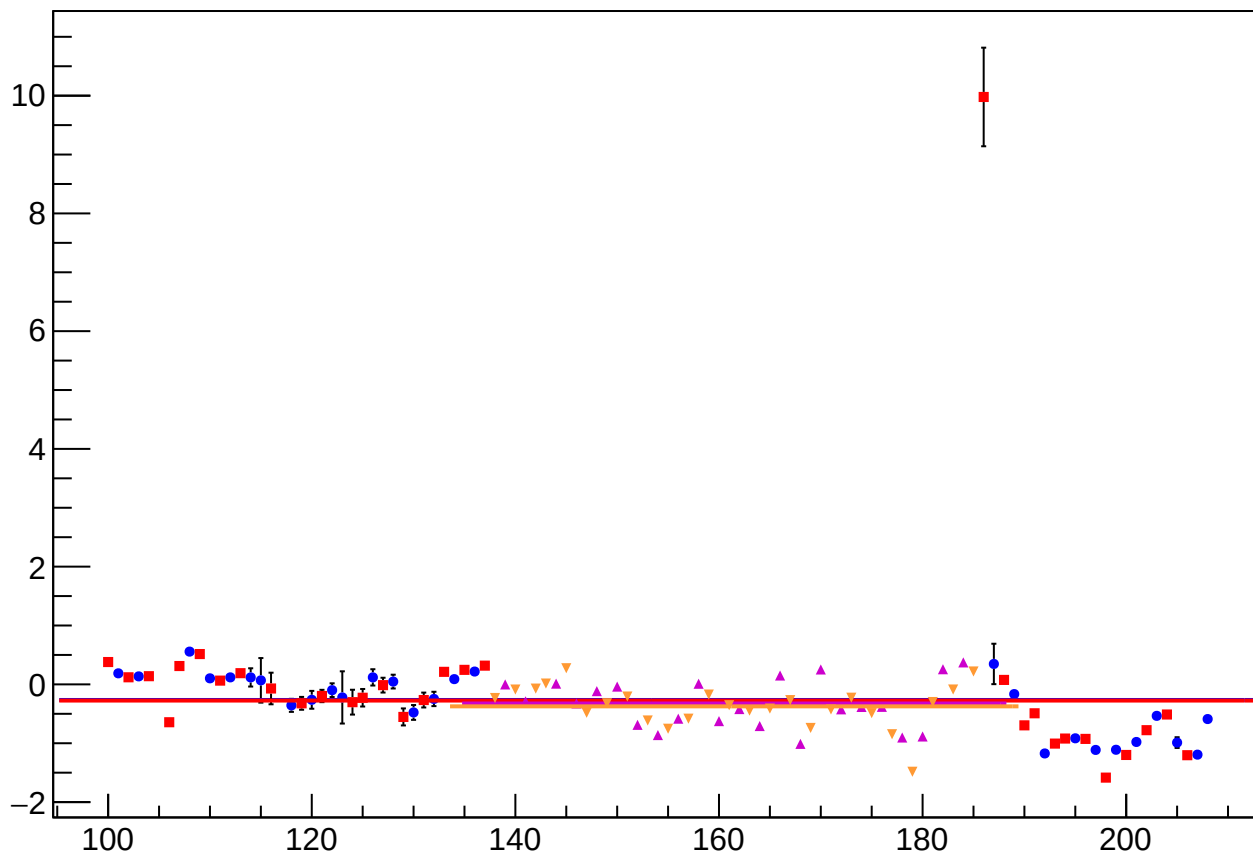
Right: 42.089 $\pm$ 0.182 χ^2 /NDF: 56233.8/58

In: 71.693 $\pm$ 0.151 χ^2 /NDF:45930.5/50

Out: 72.083 $\pm$ 0.146 χ^2 /NDF:52705.4/55

All: 71.895 $\pm$ 0.105 χ^2 /NDF: 98639.3/106

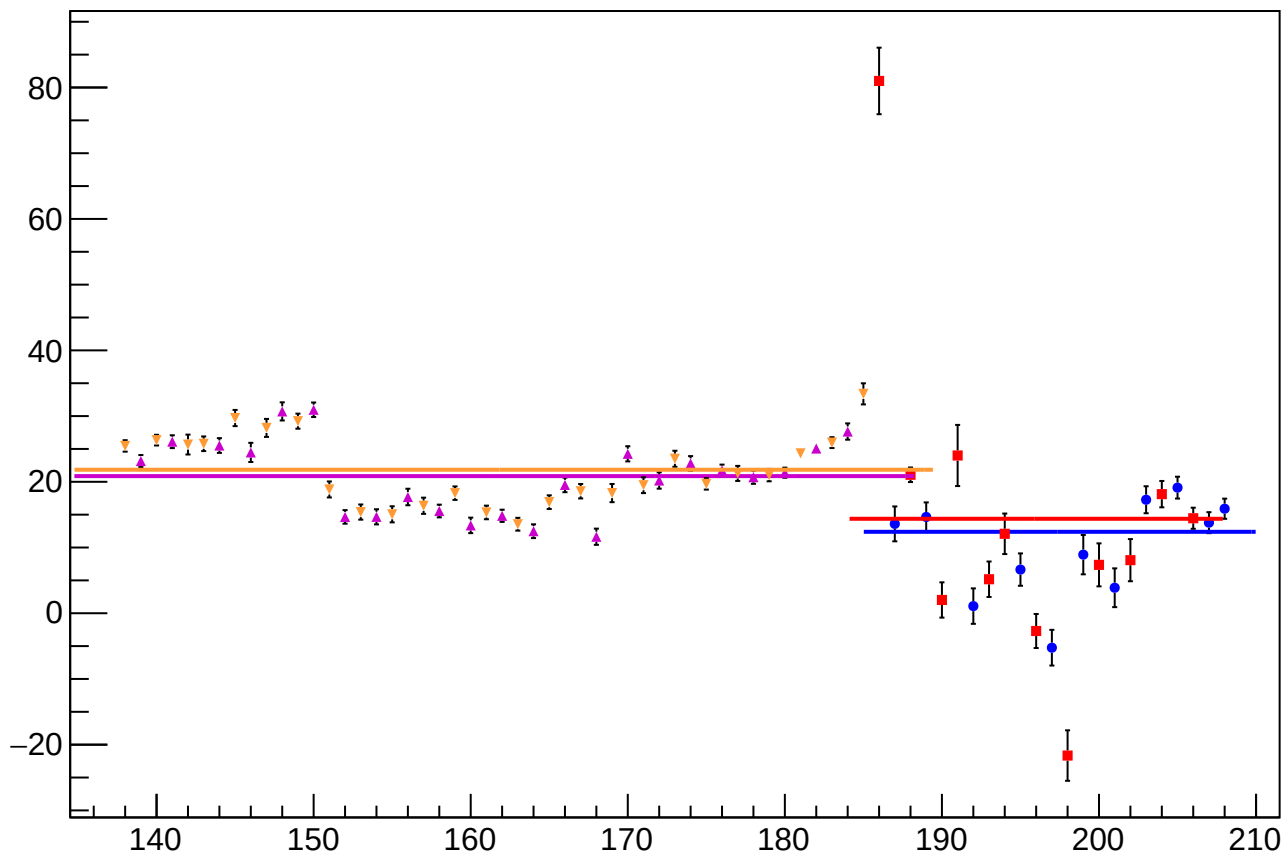
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.265 ± 0.011 χ^2/NDF : 3193.3/27
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.275 ± 0.010 χ^2/NDF : 3557.2/30
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.270 ± 0.007 χ^2/NDF : 6750.9/58
 In: -0.303 ± 0.007 χ^2/NDF : 5496.9/50
 Out: -0.335 ± 0.006 χ^2/NDF : 5282.9/55
 All: -0.320 ± 0.005 χ^2/NDF : 10792.0/106

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.391 $\pm$ 0.642 χ^2 /NDF: 104.1/10

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 14.373 $\pm$ 0.655 χ^2 /NDF: 390.9/11

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

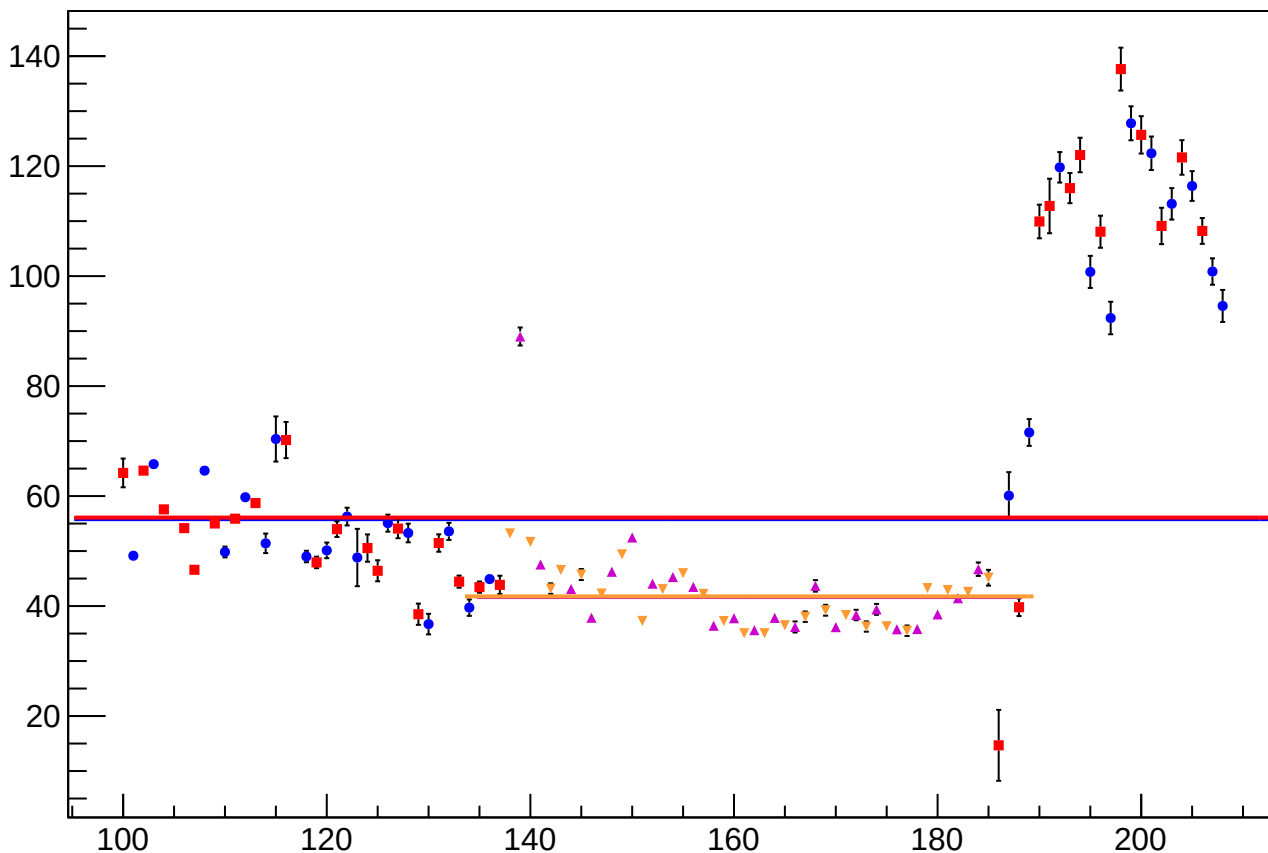
Right: 13.361 $\pm$ 0.459 χ^2 /NDF: 499.6/22

In: 19.999 $\pm$ 0.205 χ^2 /NDF:837.4/33

Out: 21.143 $\pm$ 0.200 χ^2 /NDF:1032.8/36

All: 20.586 $\pm$ 0.143 χ^2 /NDF: 1886.1/70

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.804 $\pm$ 0.205 χ^2 /NDF: 4794.6/27

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 56.087 $\pm$ 0.219 χ^2 /NDF: 4889.4/30

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

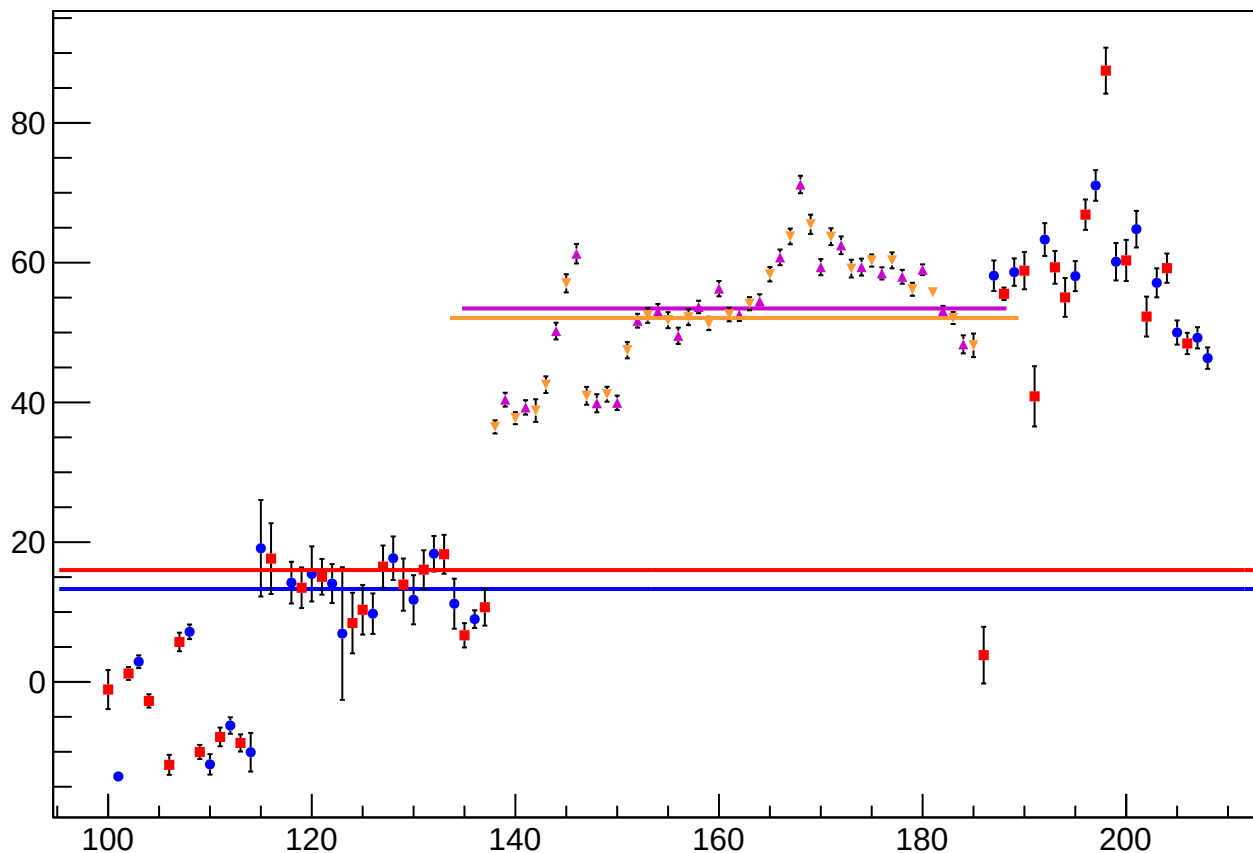
Right: 55.936 $\pm$ 0.150 χ^2 /NDF: 9685.0/58

In: 47.565 $\pm$ 0.133 χ^2 /NDF:9182.5/50

Out: 46.964 $\pm$ 0.132 χ^2 /NDF:8634.2/55

All: 47.263 $\pm$ 0.094 χ^2 /NDF: 17826.9/106

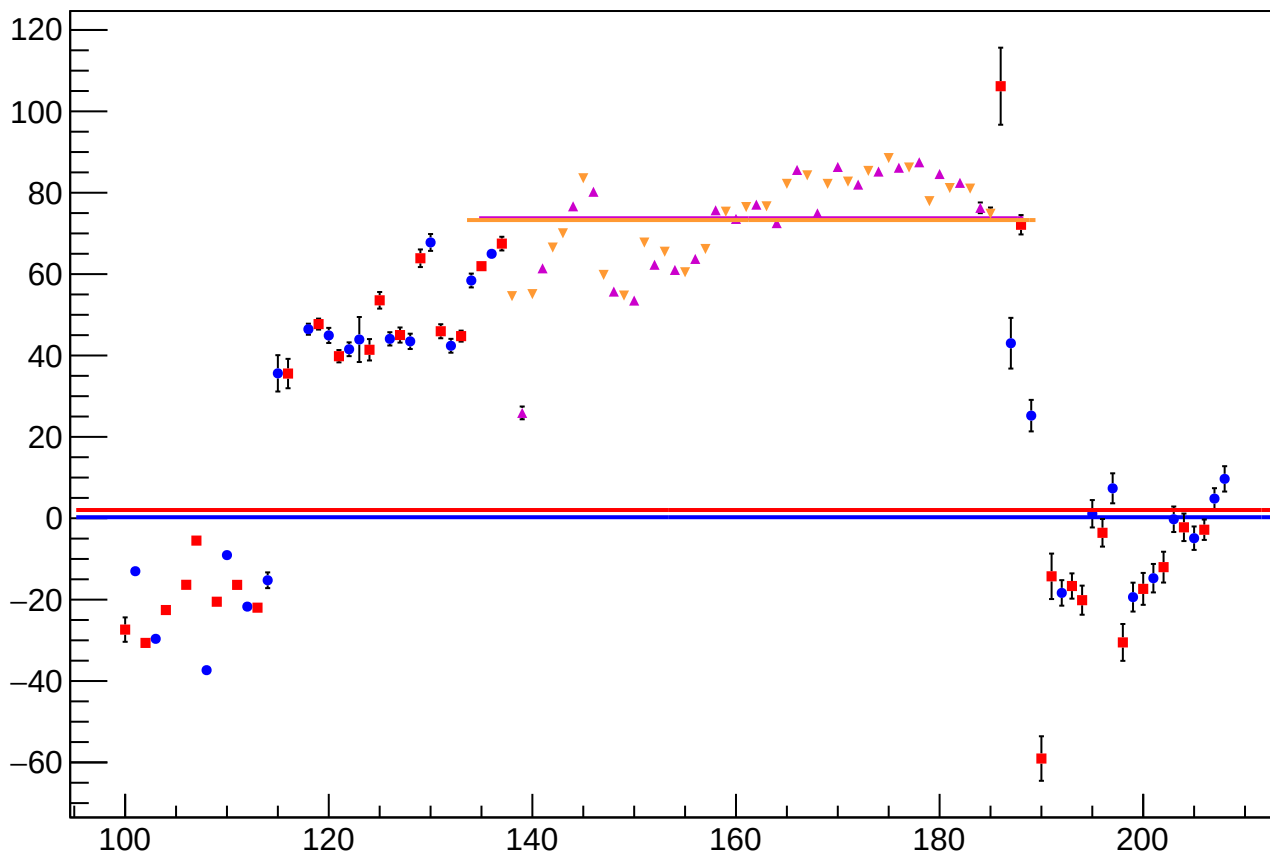
reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.298 $\pm$ 0.311 χ^2 /NDF: 7839.3/27
 Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24
 Right Out: 16.006 $\pm$ 0.315 χ^2 /NDF: 7637.2/30
 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: 14.635 $\pm$ 0.222 χ^2 /NDF: 15513.7/58
 In: 40.463 $\pm$ 0.177 χ^2 /NDF:20249.2/50
 Out: 40.999 $\pm$ 0.175 χ^2 /NDF:18147.7/55
 All: 40.734 $\pm$ 0.124 χ^2 /NDF: 38401.5/106

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.255+/-0.240 χ^2/NDF : 18412.1/27

Left Out: 73.284+/-0.187 χ^2/NDF :3144.2/24

Right Out: 2.027+/-0.258 χ^2/NDF : 16705.3/30

Left In: 73.730+/-0.194 χ^2/NDF :3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

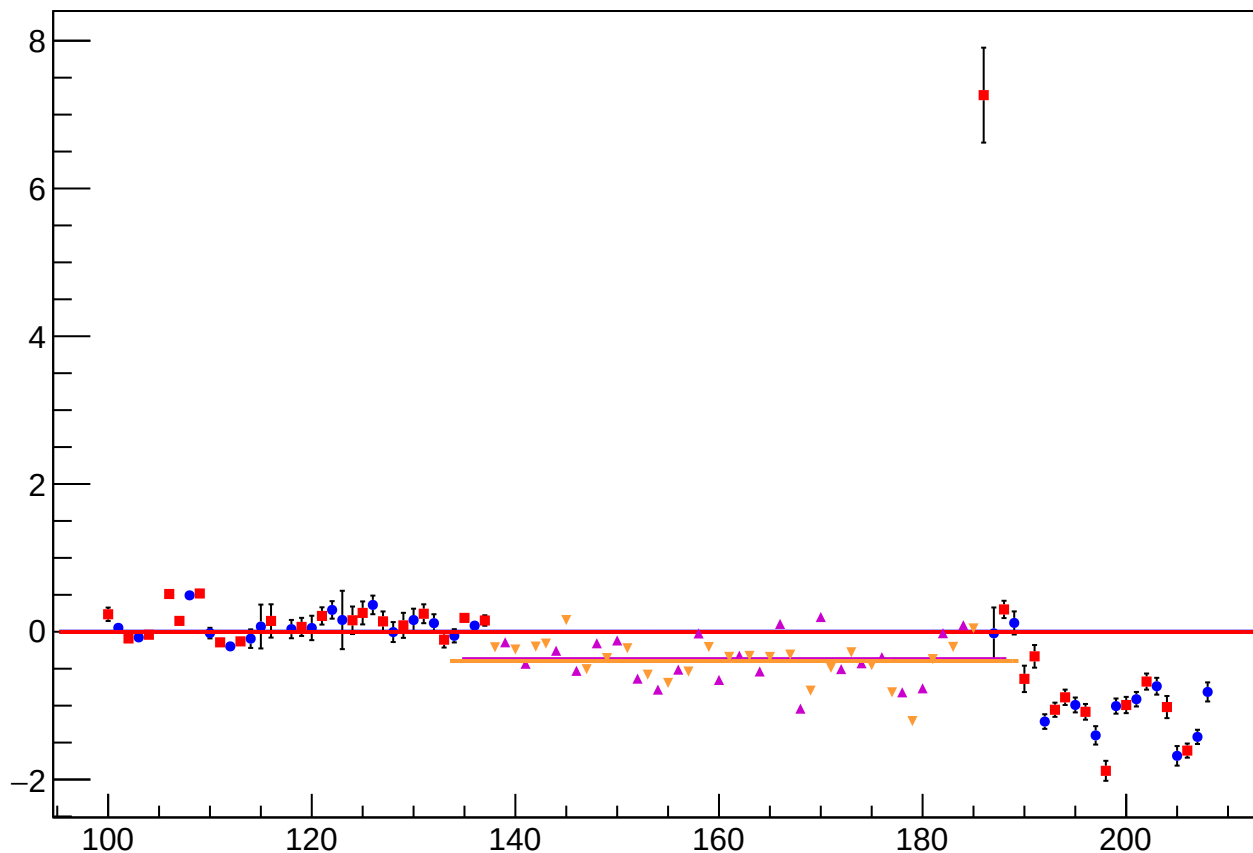
Right: 1.078+/-0.176 χ^2/NDF : 35142.7/58

In: 44.695+/-0.151 χ^2/NDF :78676.2/50

Out: 48.791+/-0.151 χ^2/NDF :69841.7/55

All: 46.740+/-0.107 χ^2/NDF : 148884.6/106

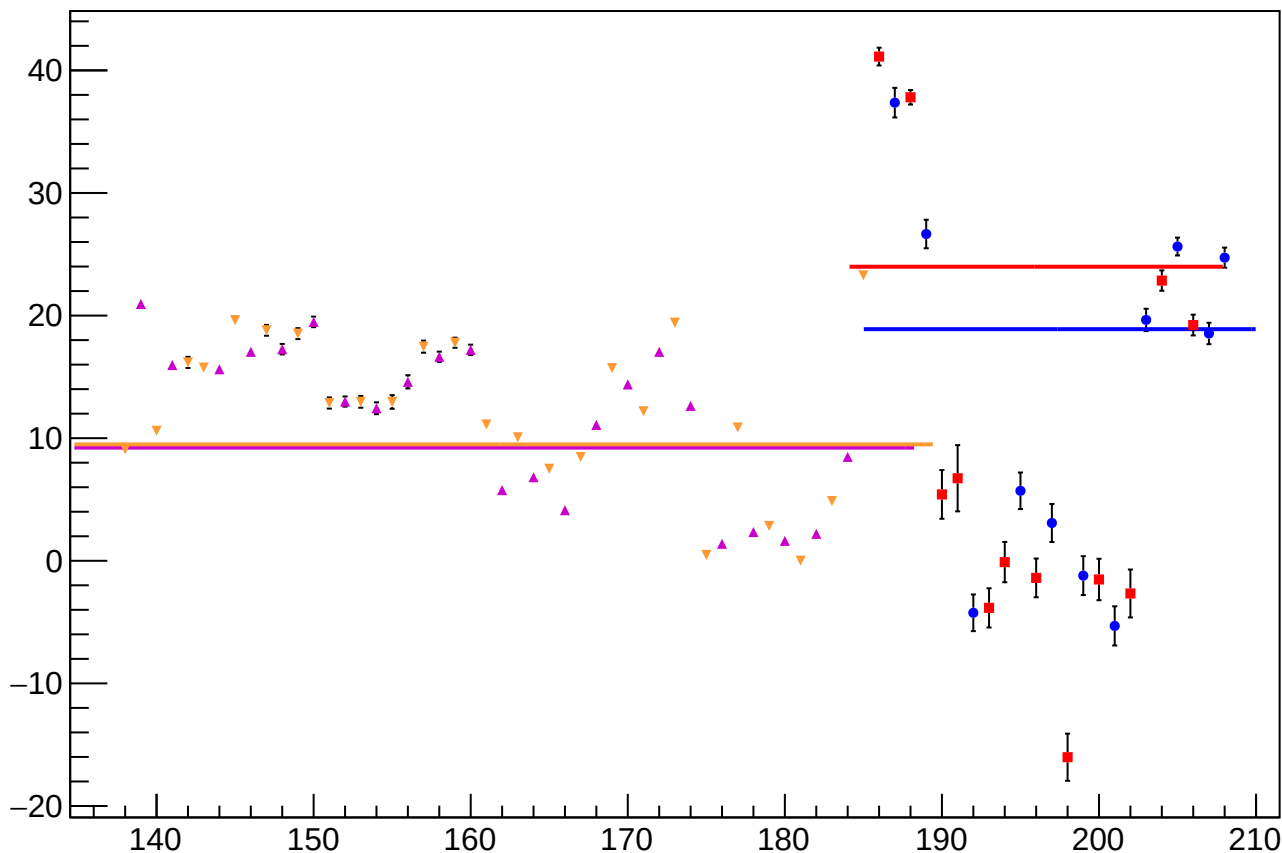
reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 1507.4/27$
 Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$
 Right Out: -0.003 ± 0.011 $\chi^2/\text{NDF}: 1544.2/30$
 Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$
 Right: -0.001 ± 0.007 $\chi^2/\text{NDF}: 3051.6/58$
 In: -0.220 ± 0.007 $\chi^2/\text{NDF}: 3560.4/50$
 Out: -0.239 ± 0.007 $\chi^2/\text{NDF}: 3335.1/55$
 All: -0.230 ± 0.005 $\chi^2/\text{NDF}: 6899.7/106$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 18.891 ± 0.326 $\chi^2/\text{NDF}: 1226.5/10$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 23.986 ± 0.316 $\chi^2/\text{NDF}: 2886.6/11$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

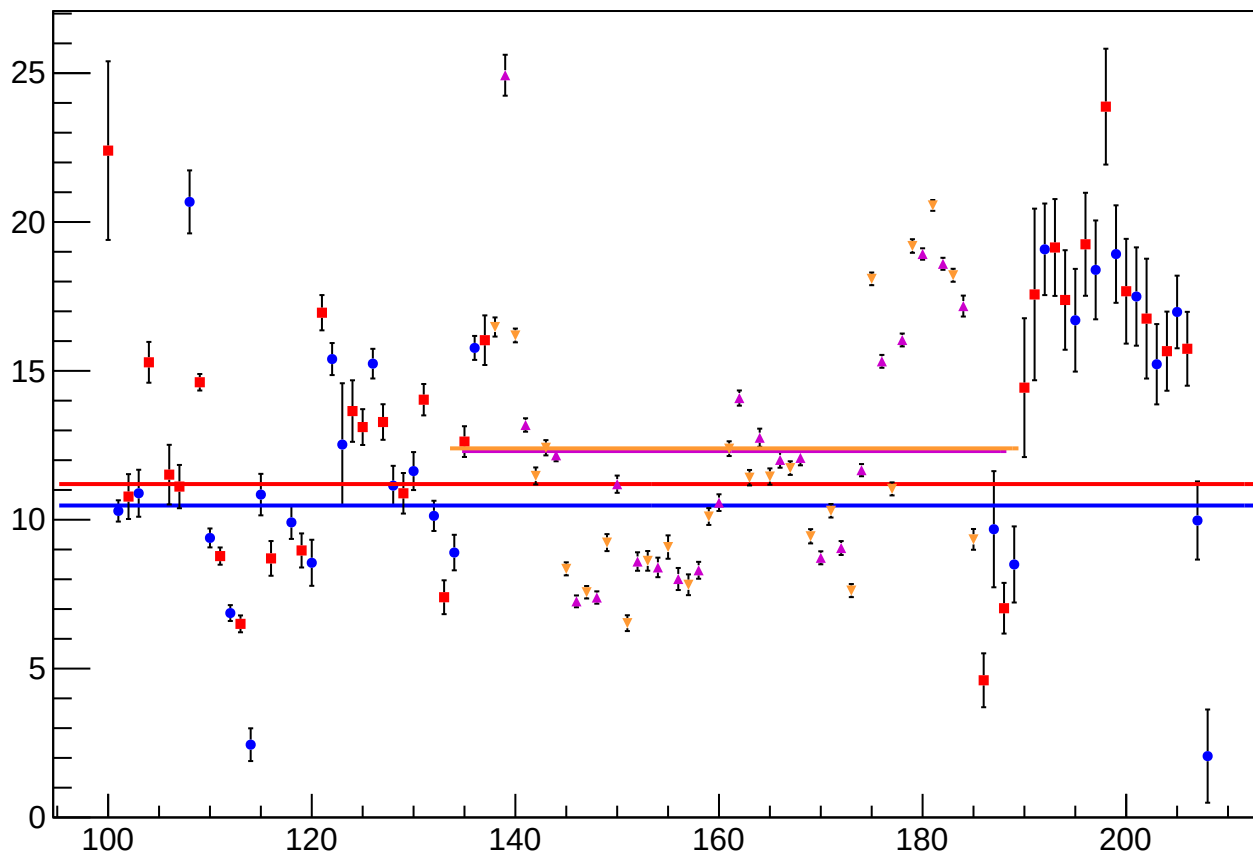
Right: 21.519 ± 0.227 $\chi^2/\text{NDF}: 4239.3/22$

In: 9.579 ± 0.062 $\chi^2/\text{NDF}: 12809.8/33$

Out: 10.020 ± 0.060 $\chi^2/\text{NDF}: 17526.7/36$

All: 9.806 ± 0.043 $\chi^2/\text{NDF}: 30362.6/70$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.478 $\pm$ 0.116 χ^2 /NDF: 1054.0/27

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.198 $\pm$ 0.112 χ^2 /NDF: 1048.8/30

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

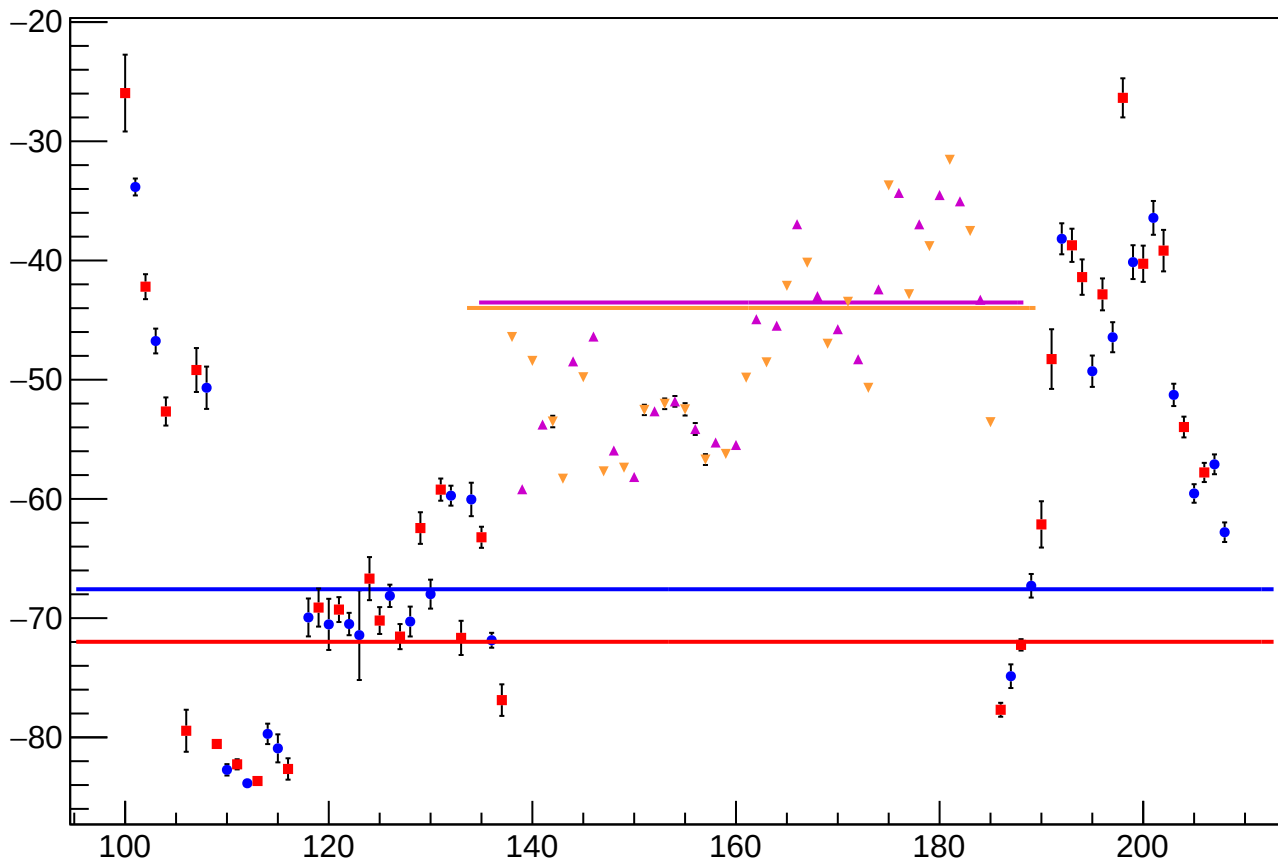
Right: 10.849 $\pm$ 0.080 χ^2 /NDF: 2122.8/58

In: 12.007 $\pm$ 0.047 χ^2 /NDF: 6865.0/50

Out: 12.200 $\pm$ 0.045 χ^2 /NDF: 8687.4/55

All: 12.106 $\pm$ 0.033 χ^2 /NDF: 15561.2/106

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.577 ± 0.167 χ^2/NDF : 8604.4/27

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -71.985 ± 0.151 χ^2/NDF : 7942.3/30

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

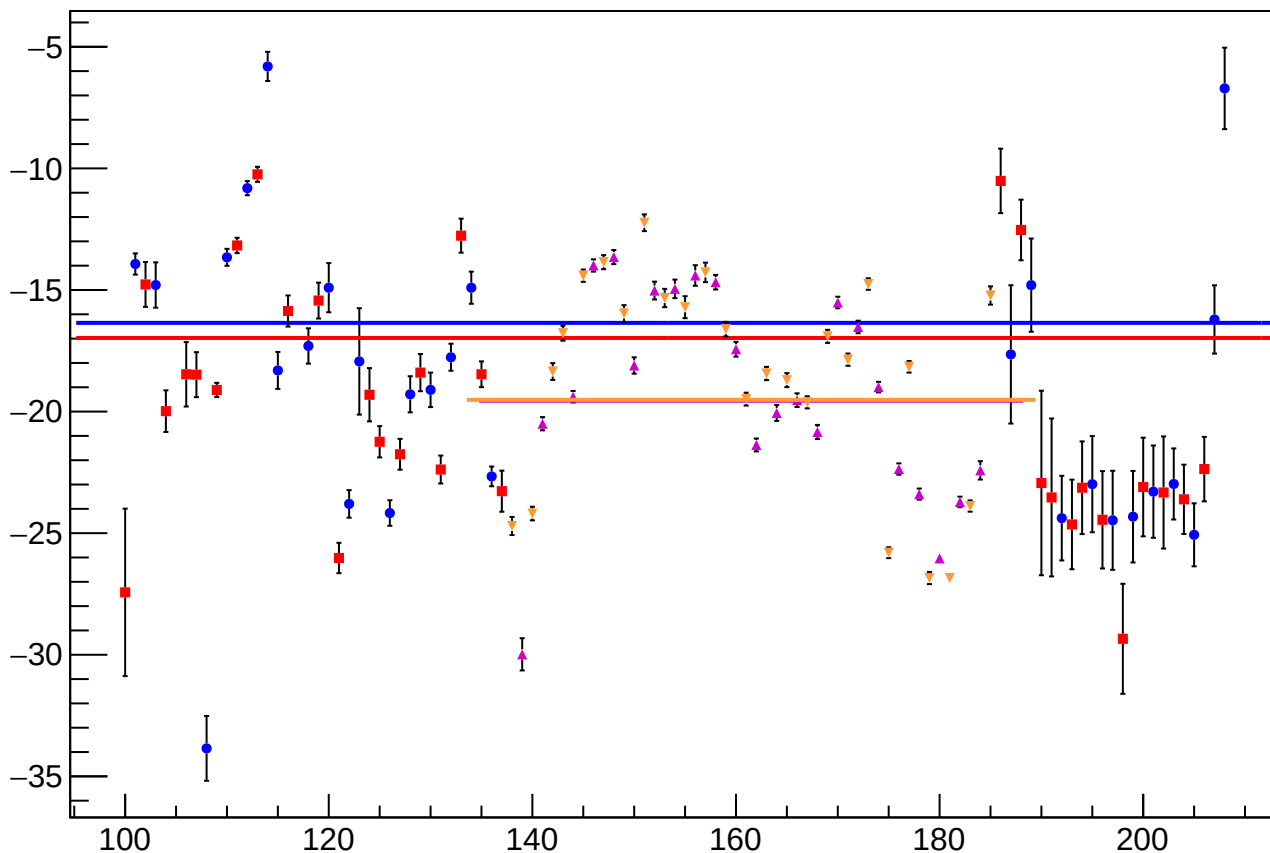
Right: -69.996 ± 0.112 χ^2/NDF : 16930.0/58

In: -46.553 ± 0.059 χ^2/NDF : 42049.6/50

Out: -48.005 ± 0.057 χ^2/NDF : 55048.5/55

All: -47.303 ± 0.041 χ^2/NDF : 97408.5/106

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.352 ± 0.129 $\chi^2/\text{NDF}: 1804.2/27$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.973 ± 0.124 $\chi^2/\text{NDF}: 1383.1/30$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

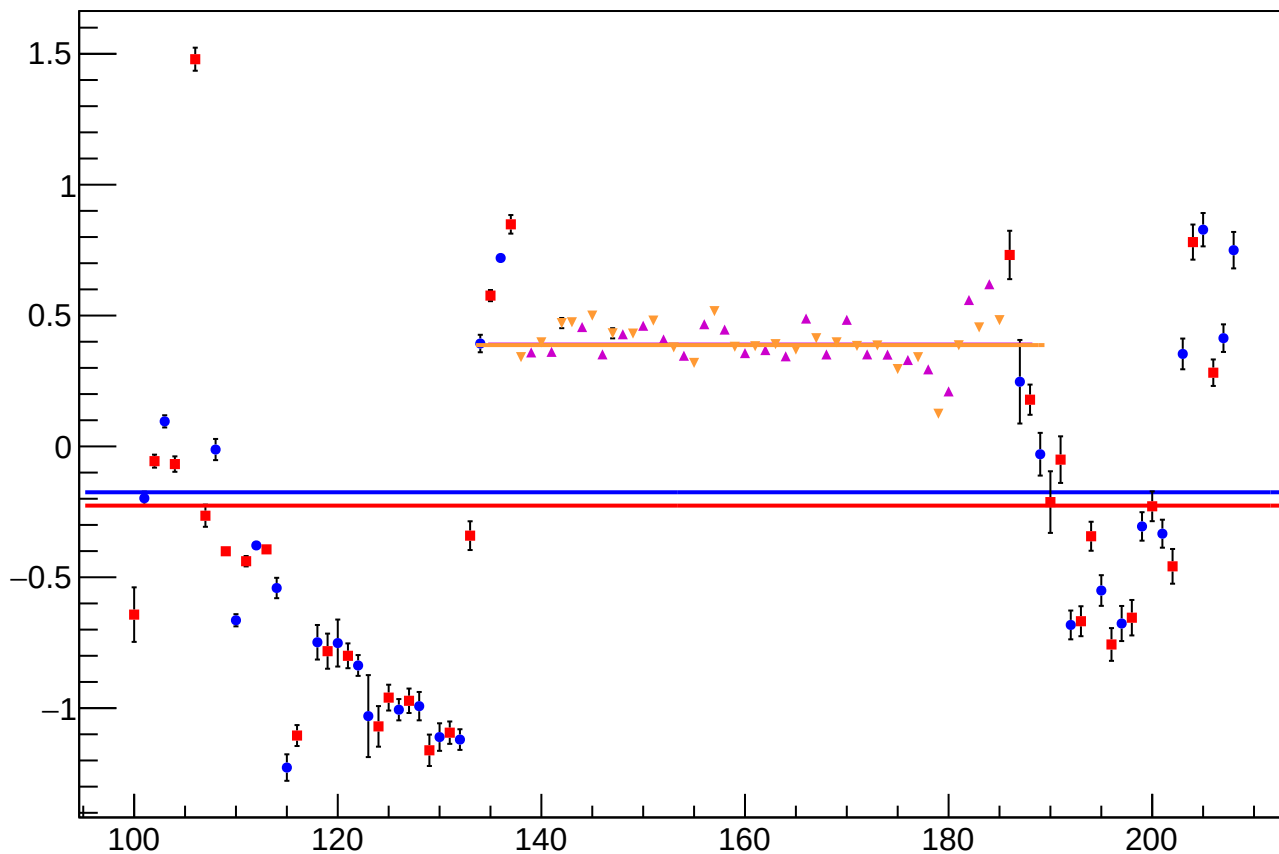
Right: -16.673 ± 0.089 $\chi^2/\text{NDF}: 3199.4/58$

In: -19.024 ± 0.052 $\chi^2/\text{NDF}: 6632.3/50$

Out: -19.092 ± 0.051 $\chi^2/\text{NDF}: 8249.6/55$

All: -19.059 ± 0.036 $\chi^2/\text{NDF}: 14882.7/106$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.175 ± 0.007 χ^2/NDF : 7160.2/27

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.226 ± 0.007 χ^2/NDF : 6853.9/30

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

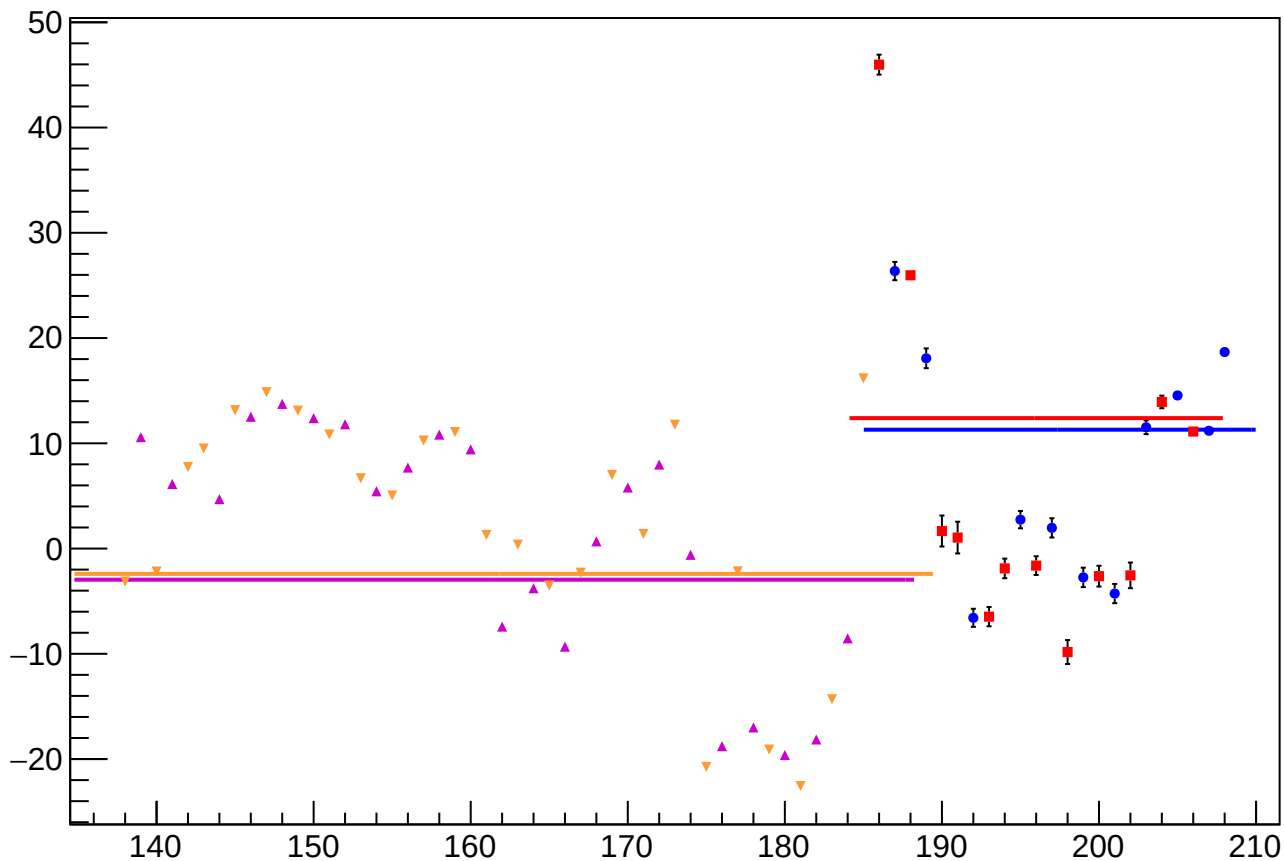
Right: -0.202 ± 0.005 χ^2/NDF : 14041.7/58

In: 0.320 ± 0.002 χ^2/NDF : 14100.6/50

Out: 0.309 ± 0.002 χ^2/NDF : 15152.1/55

All: 0.314 ± 0.002 χ^2/NDF : 29262.8/106

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.293 ± 0.195 $\chi^2/\text{NDF}: 1865.3/10$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 12.392 ± 0.215 $\chi^2/\text{NDF}: 4056.1/11$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

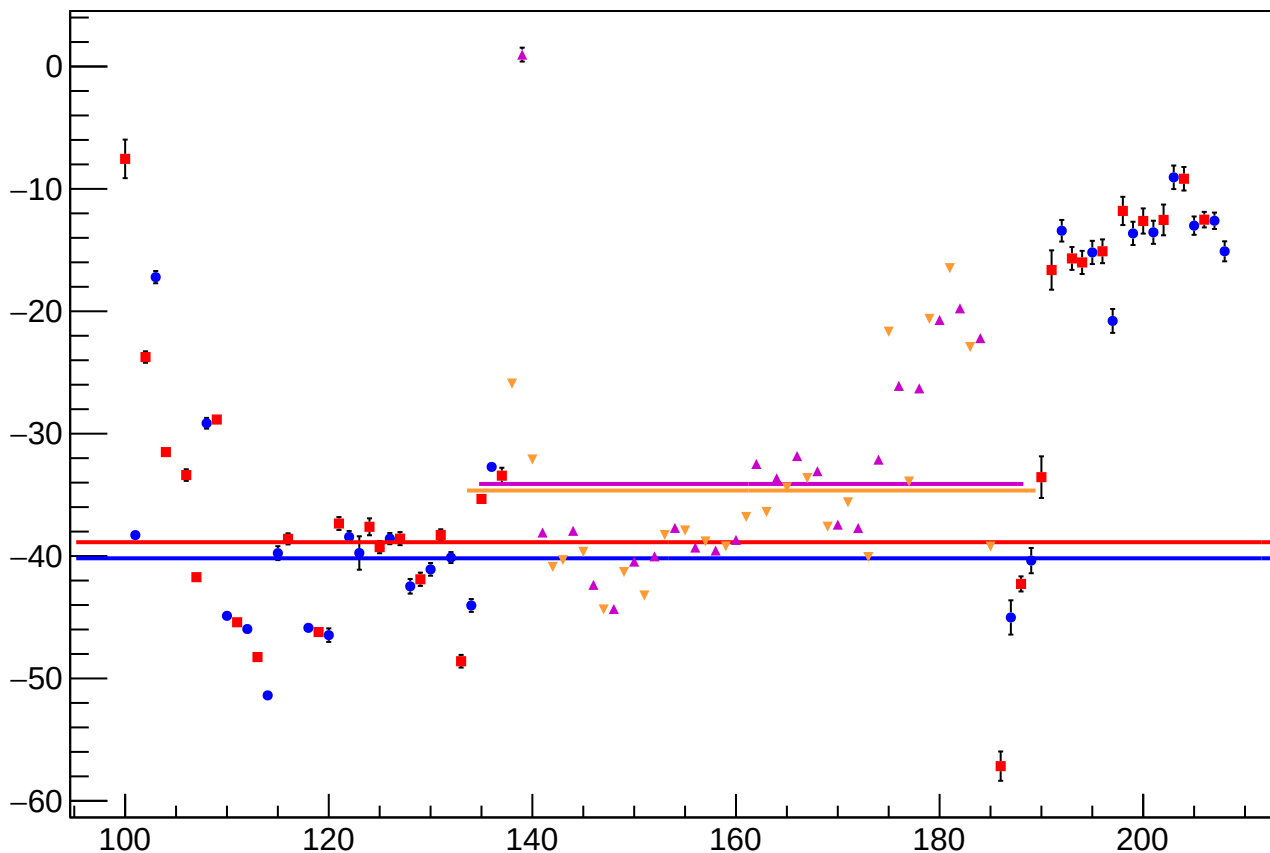
Right: 11.789 ± 0.144 $\chi^2/\text{NDF}: 5935.7/22$

In: -1.913 ± 0.053 $\chi^2/\text{NDF}: 52743.3/33$

Out: -1.565 ± 0.051 $\chi^2/\text{NDF}: 64900.5/36$

All: -1.734 ± 0.037 $\chi^2/\text{NDF}: 117666.2/70$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.182 ± 0.075 $\chi^2/\text{NDF}: 15762.2/27$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.867 ± 0.070 $\chi^2/\text{NDF}: 18171.4/30$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

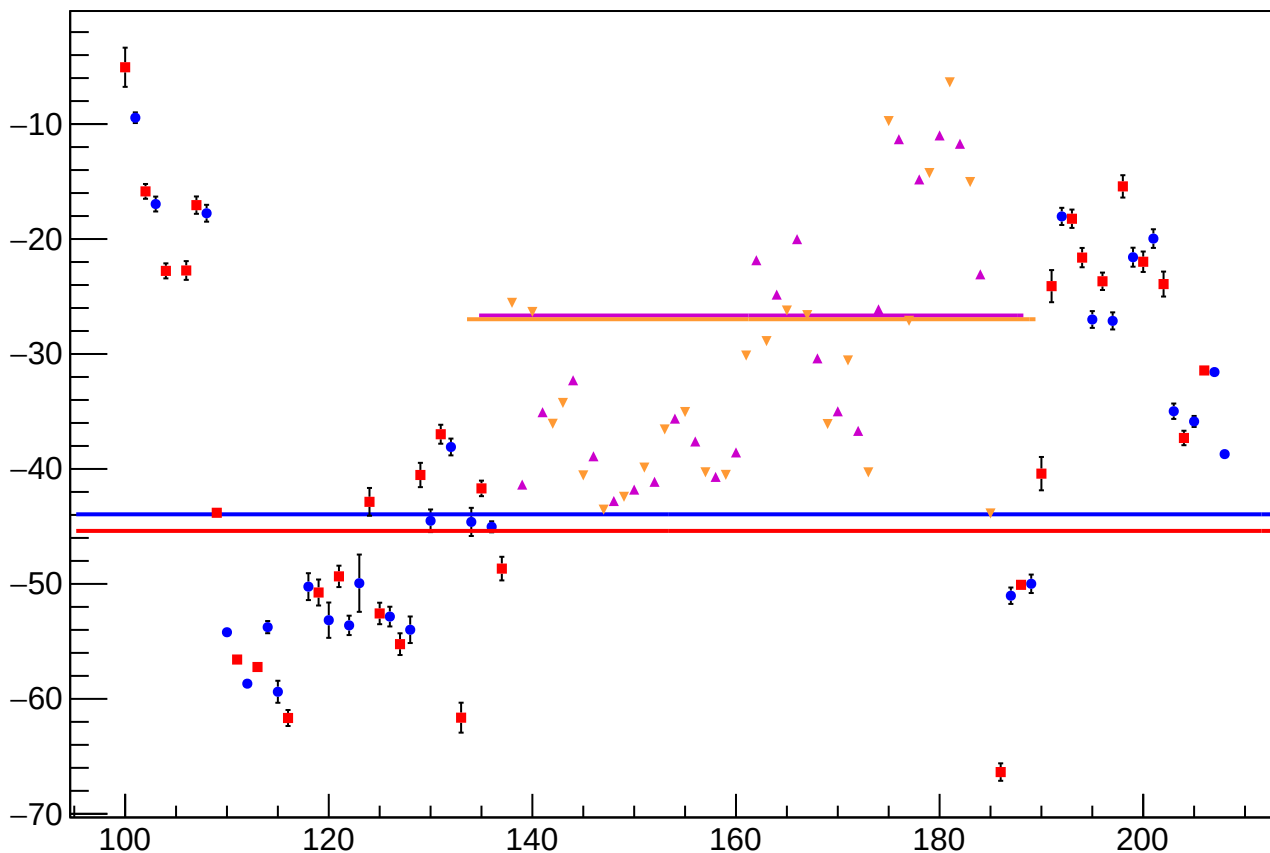
Right: -39.482 ± 0.051 $\chi^2/\text{NDF}: 34097.0/58$

In: -35.659 ± 0.038 $\chi^2/\text{NDF}: 49687.9/50$

Out: -35.746 ± 0.036 $\chi^2/\text{NDF}: 55506.3/55$

All: -35.705 ± 0.026 $\chi^2/\text{NDF}: 105197.0/106$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.947 ± 0.103 χ^2/NDF : 21608.2/27

Left Out: -26.978 ± 0.053 χ^2/NDF : 49361.1/24

Right Out: -45.390 ± 0.094 χ^2/NDF : 19693.5/30

Left In: -26.654 ± 0.055 χ^2/NDF : 42106.8/22

Left: -26.821 ± 0.038 χ^2/NDF : 91485.8/47

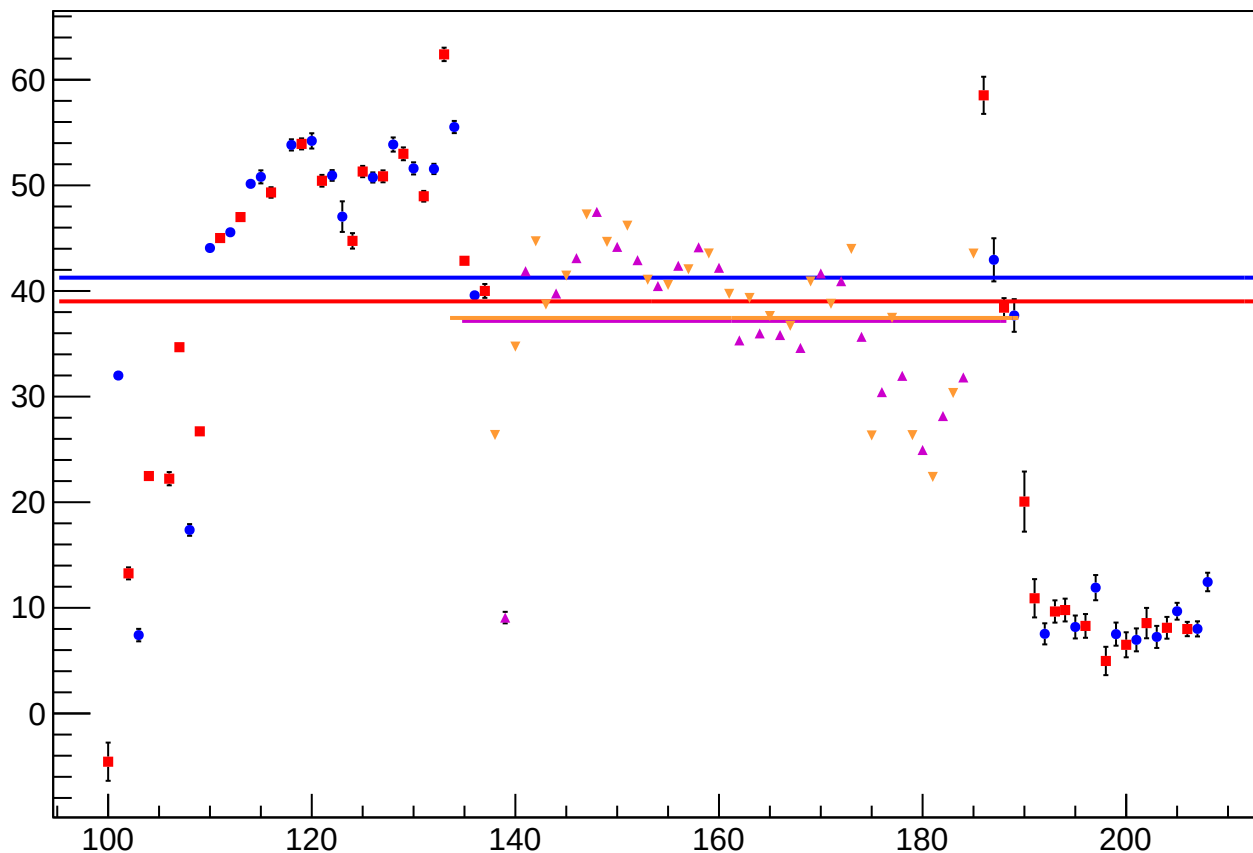
Right: -44.740 ± 0.069 χ^2/NDF : 41408.9/58

In: -30.466 ± 0.049 χ^2/NDF : 85560.7/50

Out: -31.477 ± 0.046 χ^2/NDF : 98339.5/55

All: -30.996 ± 0.033 χ^2/NDF : 184128.0/106

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.262 $\pm$ 0.084 χ^2/NDF : 21851.6/27

Left Out: 37.447 $\pm$ 0.047 χ^2/NDF : 21570.6/24

Right Out: 39.016 $\pm$ 0.078 χ^2/NDF : 25431.7/30

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

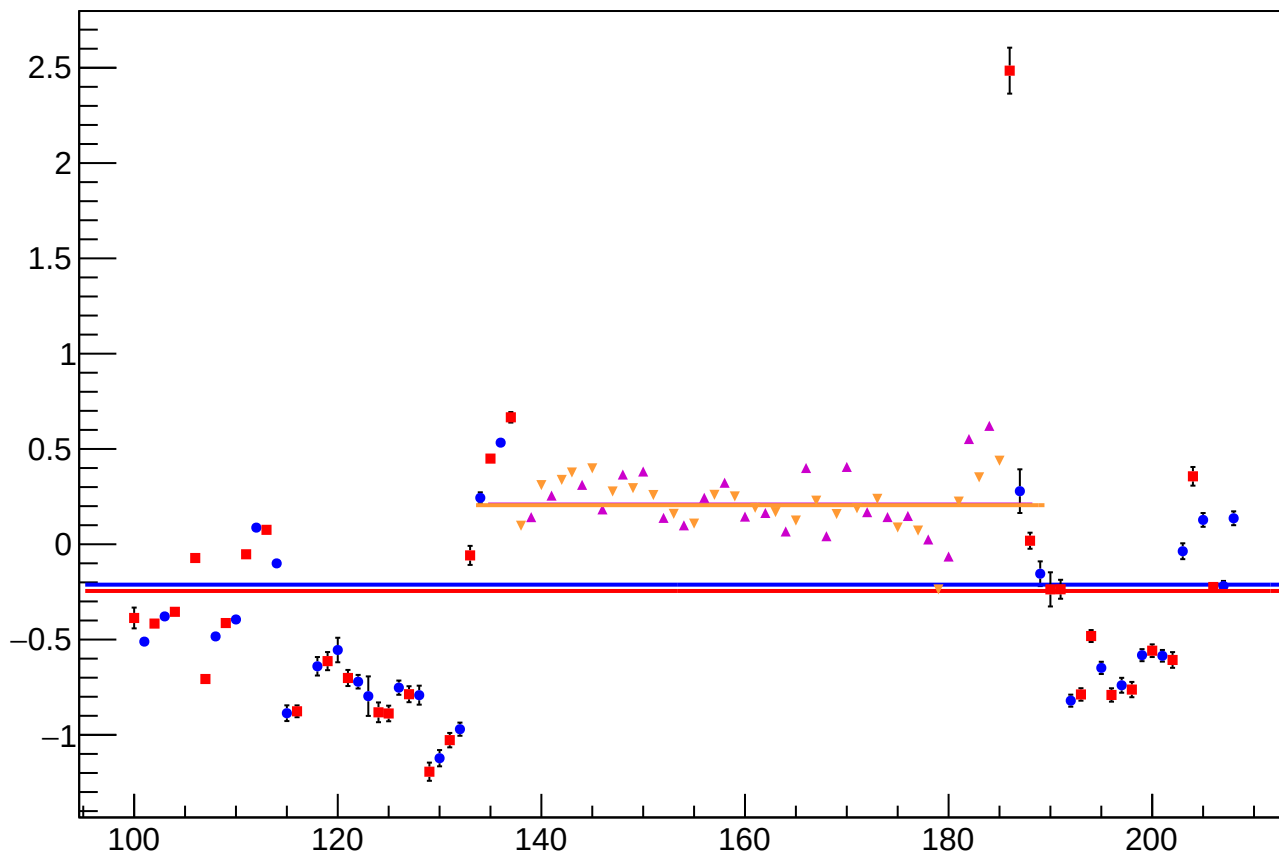
Right: 40.058 $\pm$ 0.057 χ^2/NDF : 47669.2/58

In: 38.222 $\pm$ 0.042 χ^2/NDF : 40864.0/50

Out: 37.867 $\pm$ 0.040 χ^2/NDF : 47299.0/55

All: 38.036 $\pm$ 0.029 χ^2/NDF : 88199.6/106

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.212 ± 0.004 χ^2/NDF : 8645.9/27

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.245 ± 0.004 χ^2/NDF : 9061.0/30

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

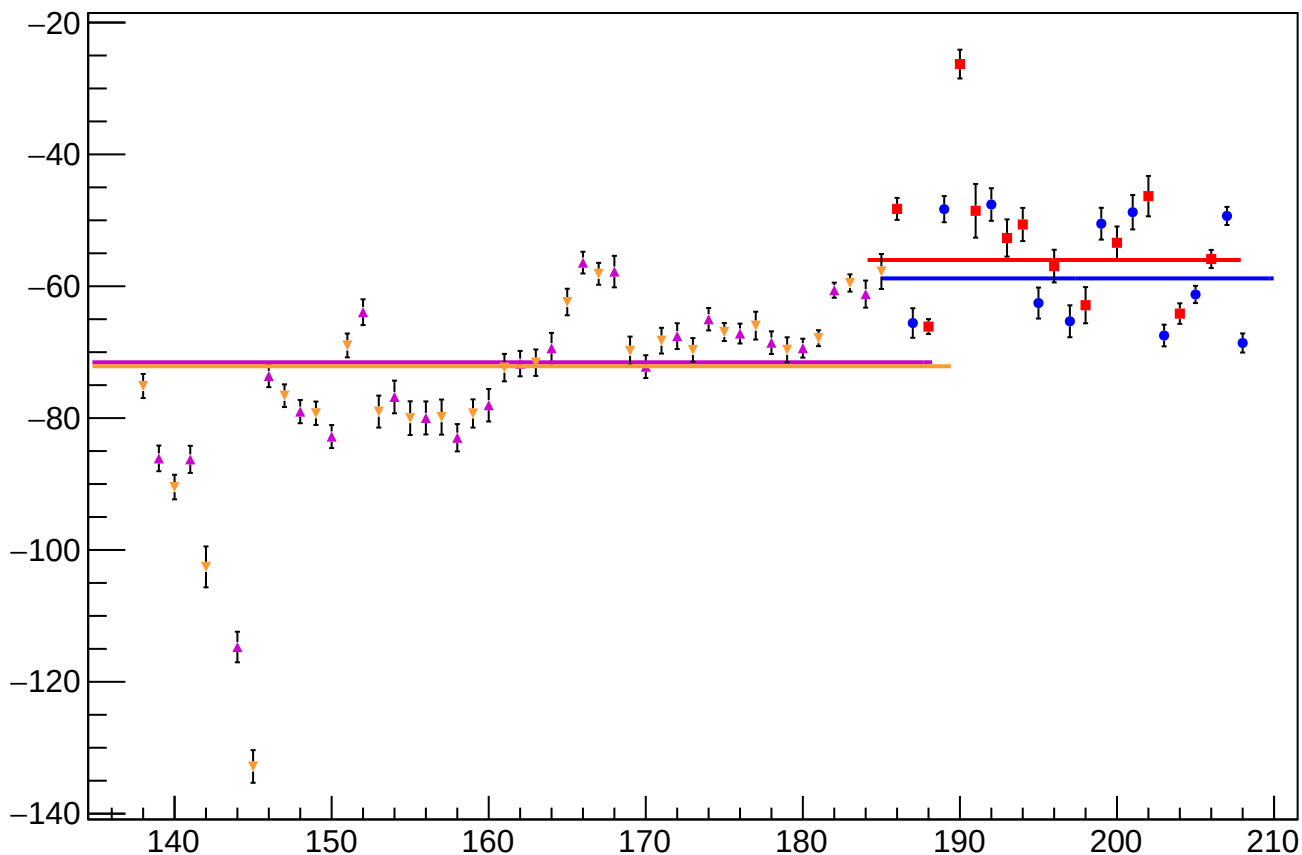
Right: -0.230 ± 0.003 χ^2/NDF : 17737.6/58

In: 0.122 ± 0.002 χ^2/NDF : 20914.5/50

Out: 0.103 ± 0.002 χ^2/NDF : 22589.9/55

All: 0.112 ± 0.001 χ^2/NDF : 43552.6/106

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



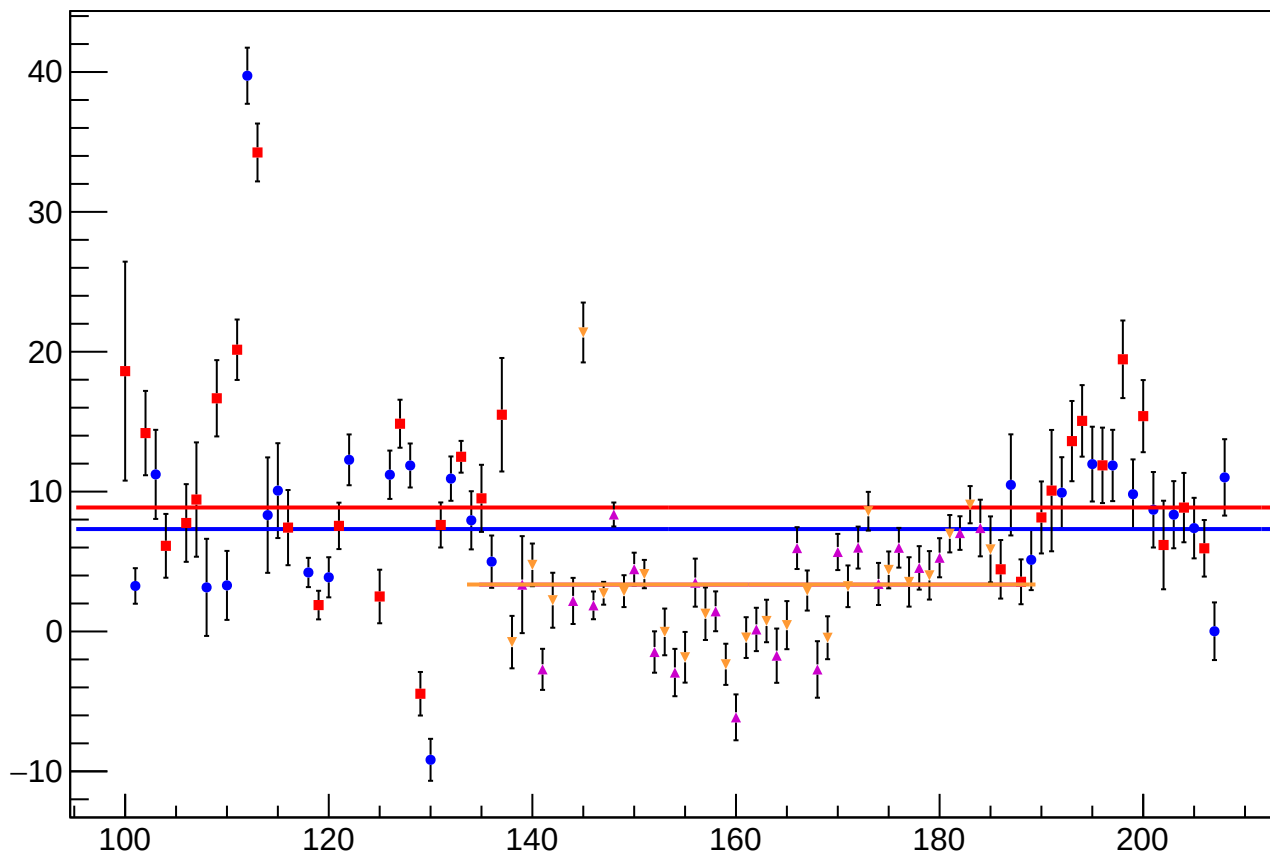
Right In: -58.810 ± 0.555 $\chi^2/\text{NDF}: 218.7/10$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -56.014 ± 0.559 $\chi^2/\text{NDF}: 339.8/11$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -57.424 ± 0.394 $\chi^2/\text{NDF}: 571.1/22$

In: -67.445 ± 0.314 $\chi^2/\text{NDF}: 1427.3/33$
 Out: -66.994 ± 0.316 $\chi^2/\text{NDF}: 2027.0/35$

All: -67.221 ± 0.223 $\chi^2/\text{NDF}: 3455.3/69$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.322 ± 0.379 $\chi^2/\text{NDF}: 465.6/26$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.864 ± 0.378 $\chi^2/\text{NDF}: 398.9/29$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

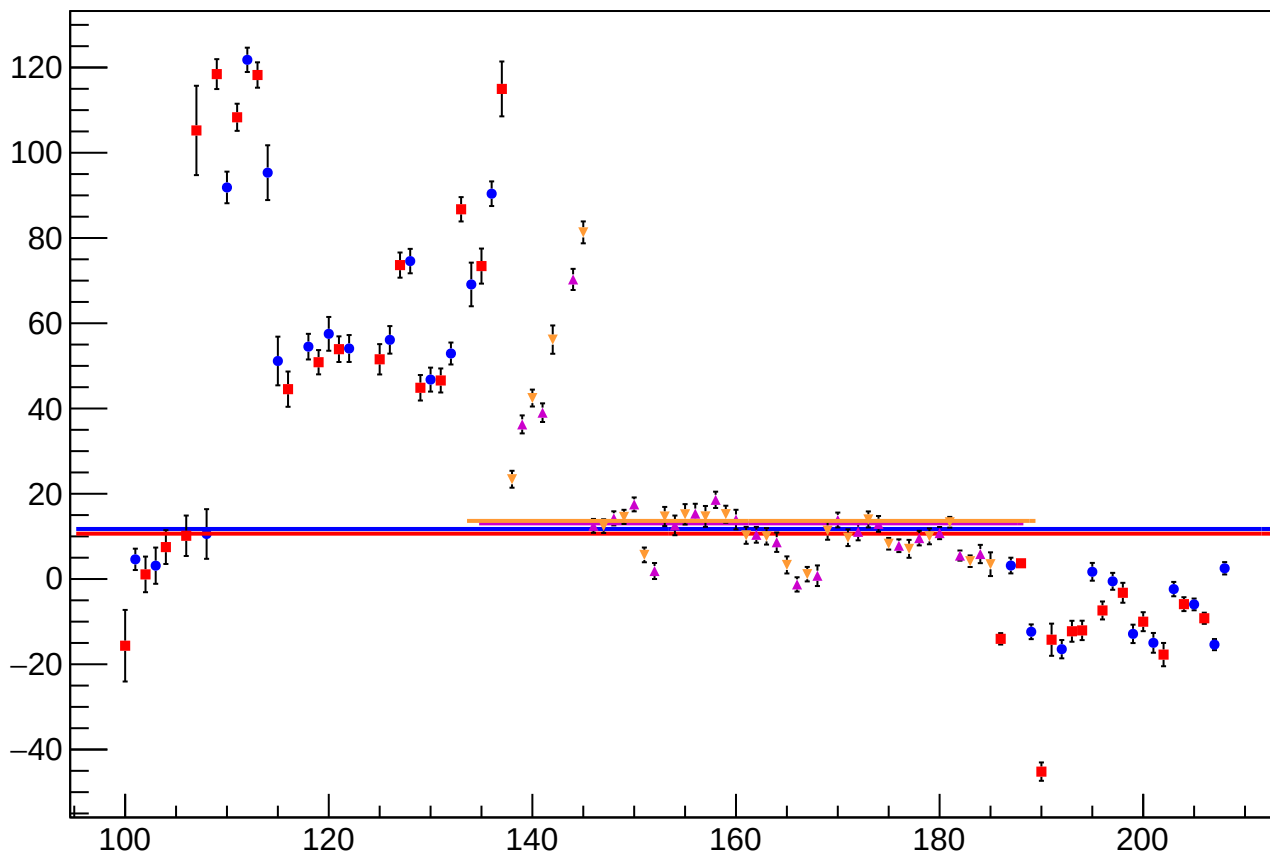
Right: 8.095 ± 0.268 $\chi^2/\text{NDF}: 872.8/56$

In: 4.867 ± 0.234 $\chi^2/\text{NDF}: 696.9/49$

Out: 5.438 ± 0.232 $\chi^2/\text{NDF}: 698.5/53$

All: 5.155 ± 0.165 $\chi^2/\text{NDF}: 1398.4/103$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.741 $\pm$ 0.443 χ^2 /NDF: 6063.9/26

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 10.641 $\pm$ 0.426 χ^2 /NDF: 7787.9/29

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

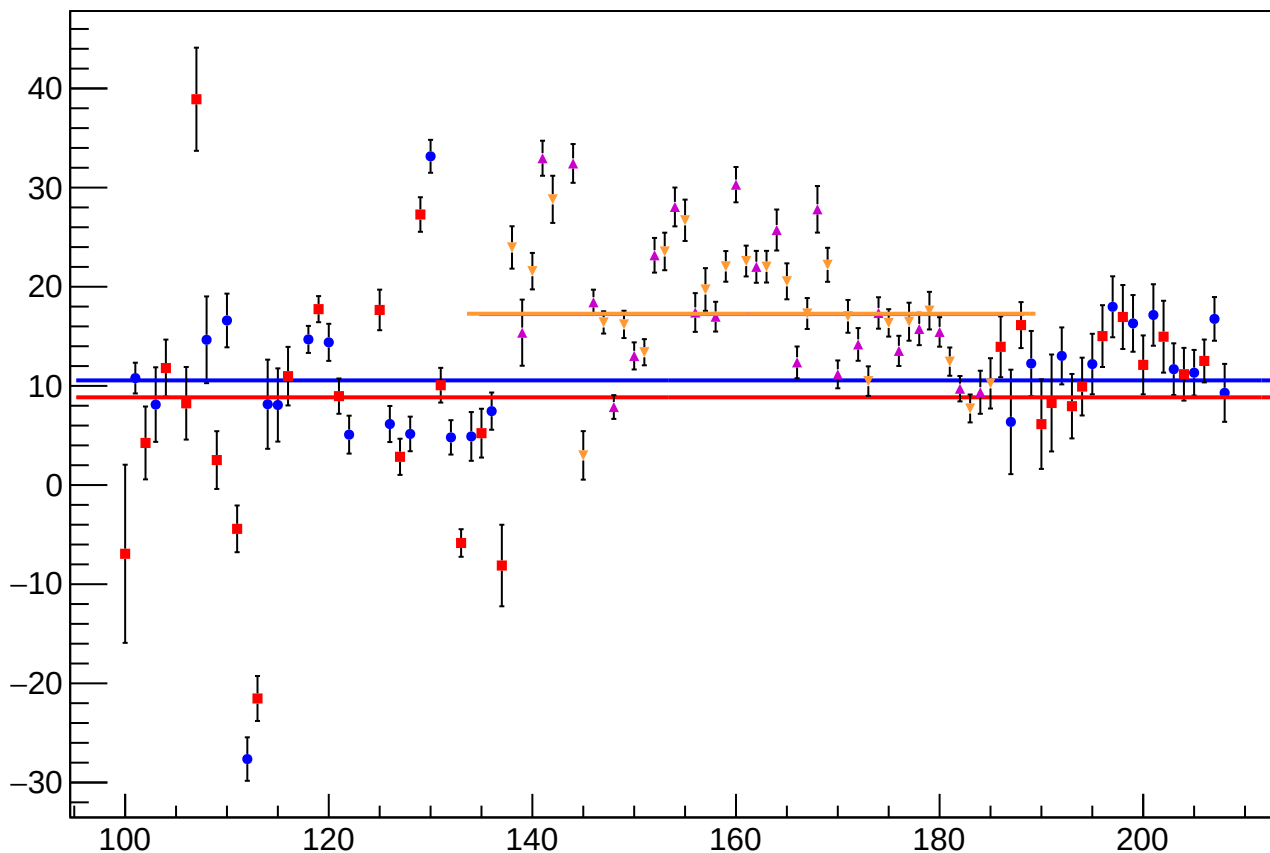
Right: 11.170 $\pm$ 0.307 χ^2 /NDF: 13855.0/56

In: 12.500 $\pm$ 0.288 χ^2 /NDF:7093.7/49

Out: 12.301 $\pm$ 0.284 χ^2 /NDF:9115.3/53

All: 12.399 $\pm$ 0.202 χ^2 /NDF: 16209.2/103

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.556 $\pm$ 0.437 χ^2 /NDF: 576.3/26

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.847 $\pm$ 0.443 χ^2 /NDF: 605.1/29

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

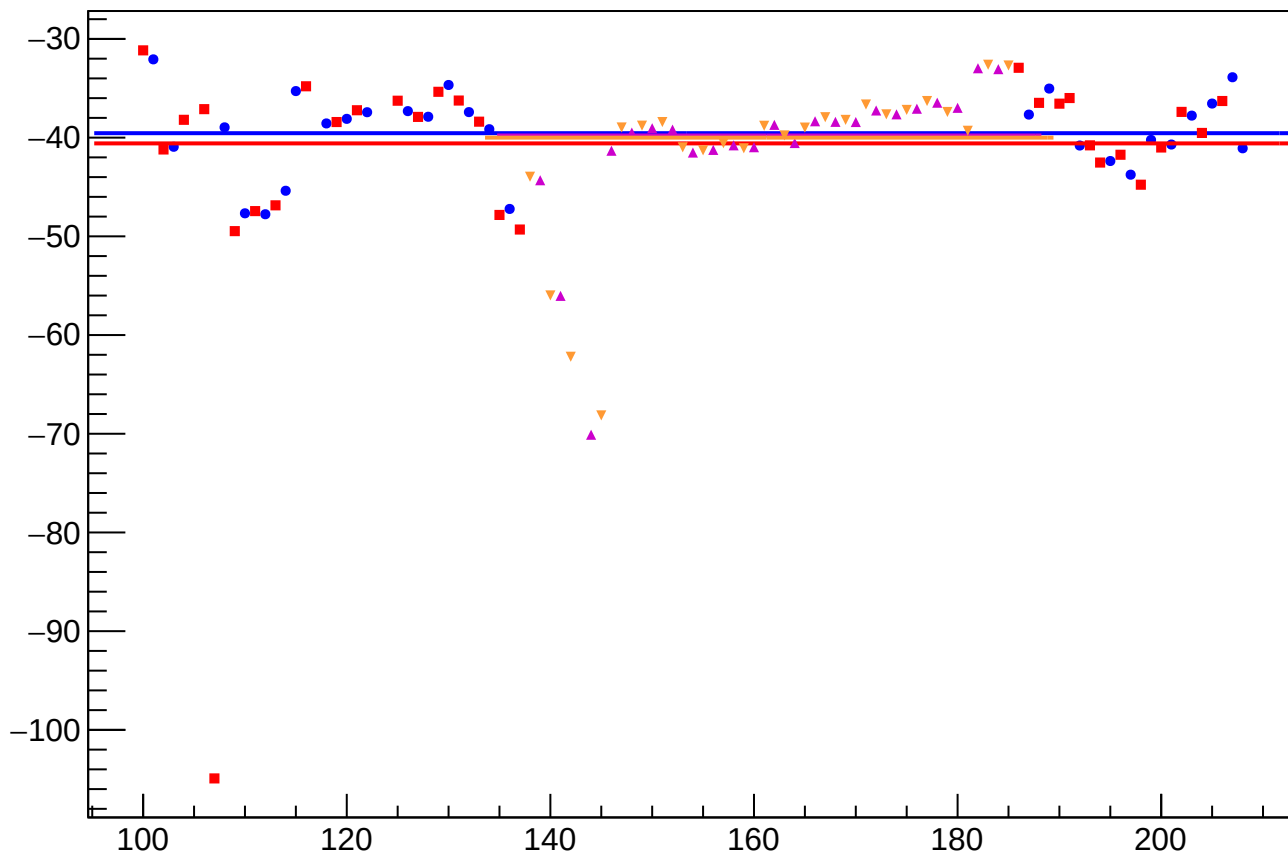
Right: 9.712 $\pm$ 0.311 χ^2 /NDF: 1188.9/56

In: 14.731 $\pm$ 0.268 χ^2 /NDF:1163.1/49

Out: 14.187 $\pm$ 0.268 χ^2 /NDF:1078.4/53

All: 14.459 $\pm$ 0.190 χ^2 /NDF: 2243.6/103

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.550 ± 0.022 χ^2/NDF : 36488.5/26

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.584 ± 0.022 χ^2/NDF : 106703.2/29

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

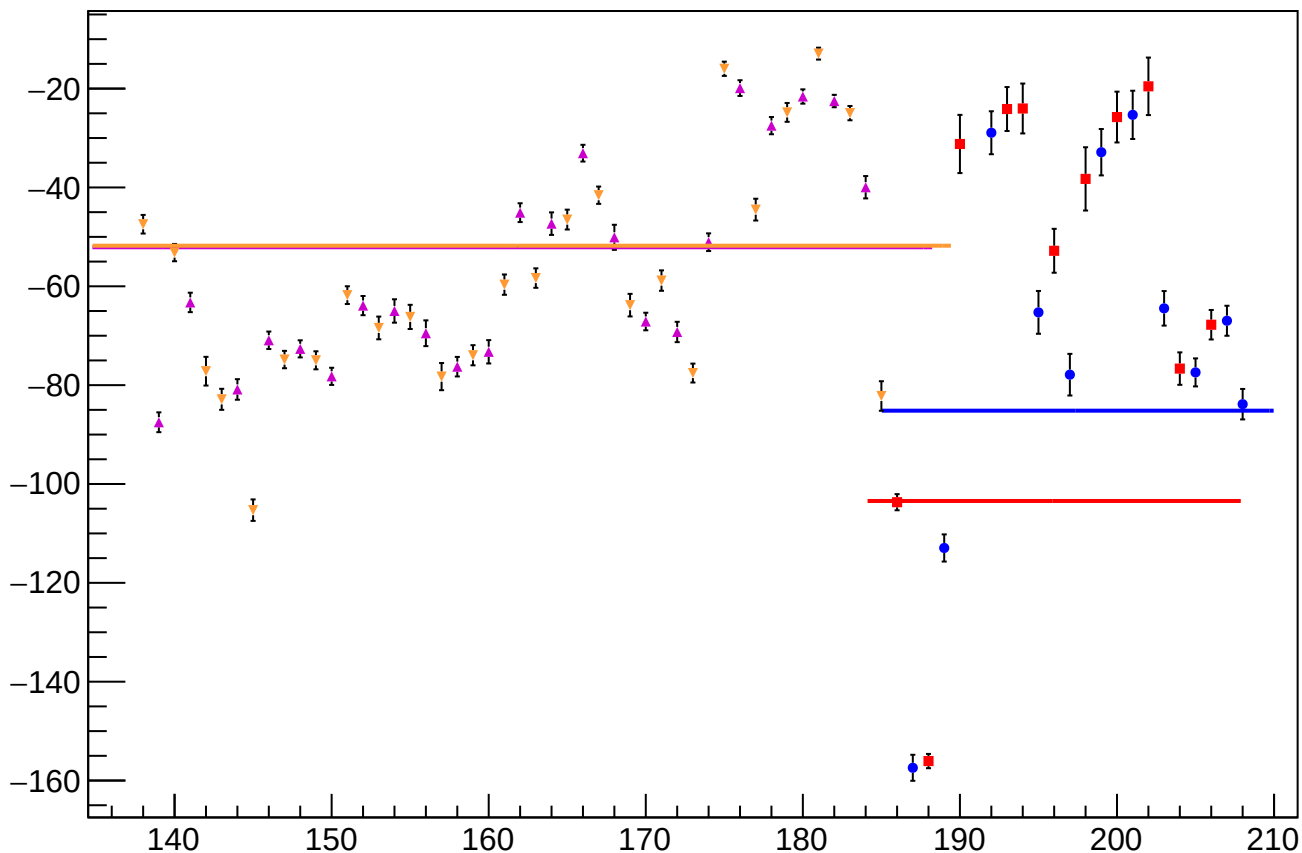
Right: -40.071 ± 0.015 χ^2/NDF : 144328.9/56

In: -39.705 ± 0.013 χ^2/NDF : 181059.8/49

Out: -40.202 ± 0.013 χ^2/NDF : 279445.0/53

All: -39.953 ± 0.009 χ^2/NDF : 461270.9/103

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.166 ± 1.028 $\chi^2/\text{NDF}: 1400.7/10$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -103.437 ± 0.870 $\chi^2/\text{NDF}: 2920.3/10$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

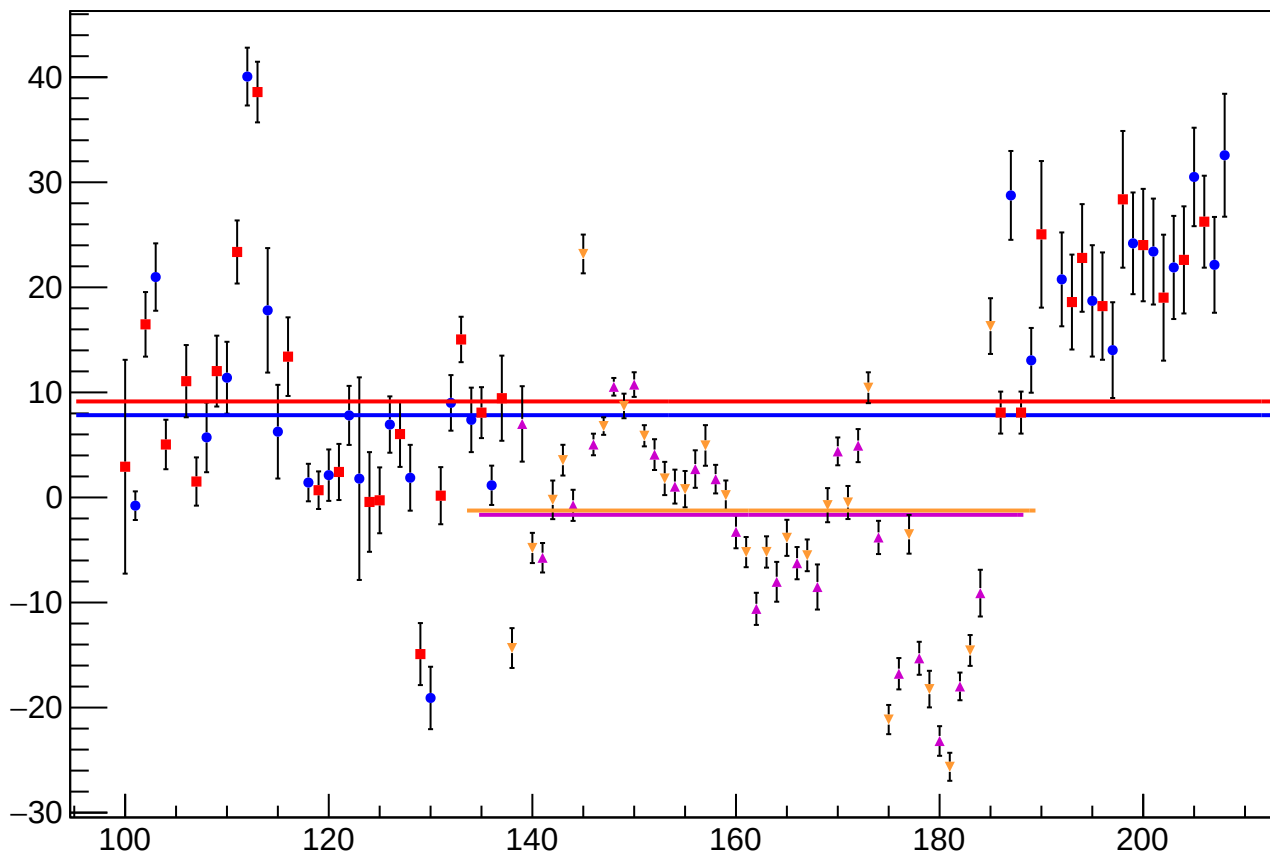
Right: -95.807 ± 0.664 $\chi^2/\text{NDF}: 4505.0/21$

In: -56.240 ± 0.364 $\chi^2/\text{NDF}: 5586.2/33$

Out: -60.153 ± 0.350 $\chi^2/\text{NDF}: 10036.6/35$

All: -58.269 ± 0.252 $\chi^2/\text{NDF}: 15683.0/69$

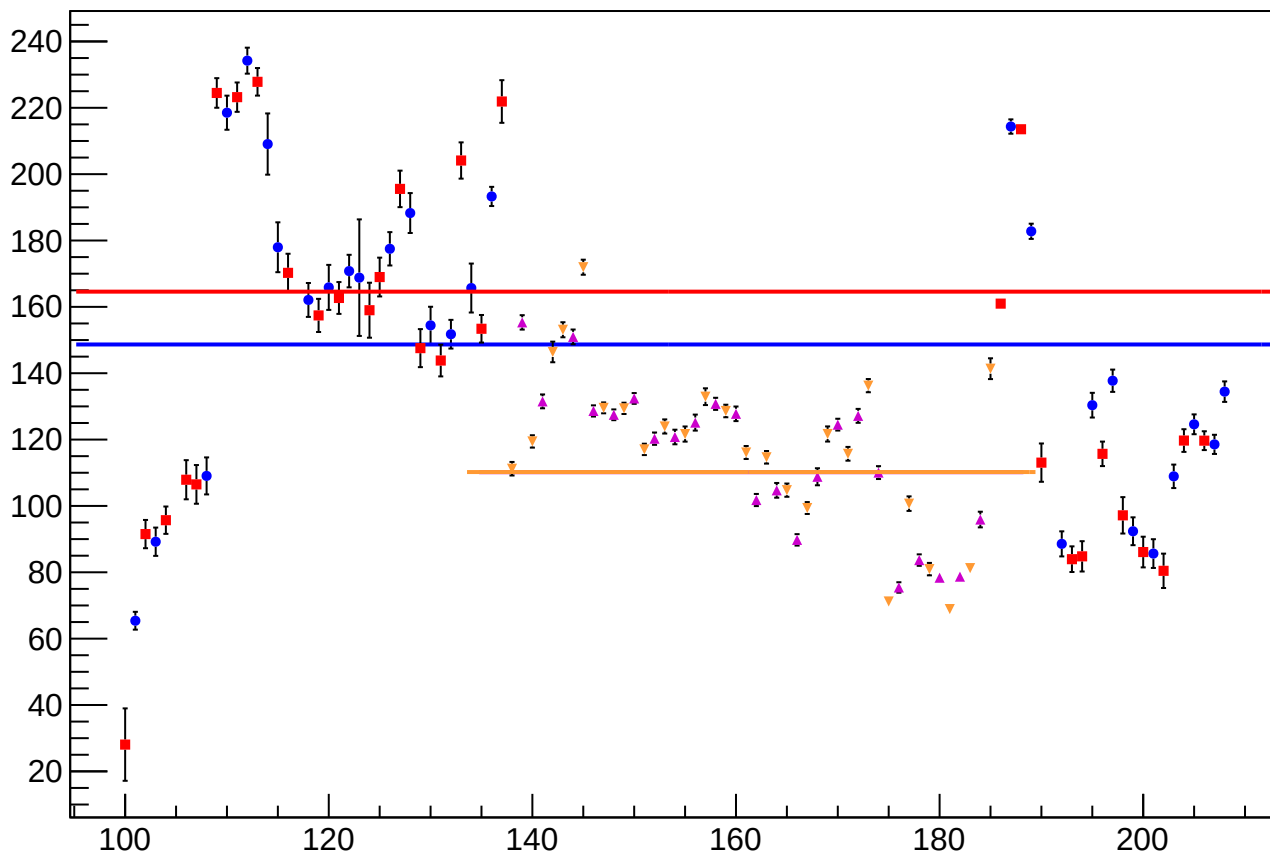
reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.832 ± 0.571 $\chi^2/\text{NDF}: 438.0/27$
 Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$
 Right Out: 9.139 ± 0.561 $\chi^2/\text{NDF}: 338.5/29$
 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: 8.497 ± 0.400 $\chi^2/\text{NDF}: 779.2/57$
 In: 0.405 ± 0.266 $\chi^2/\text{NDF}: 1746.5/50$
 Out: 0.967 ± 0.259 $\chi^2/\text{NDF}: 1931.1/54$
 All: 0.693 ± 0.185 $\chi^2/\text{NDF}: 3679.9/105$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 148.664 ± 0.723 $\chi^2/\text{NDF}: 4427.4/27$

Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$

Right Out: 164.589 ± 0.621 $\chi^2/\text{NDF}: 5618.8/29$

Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$

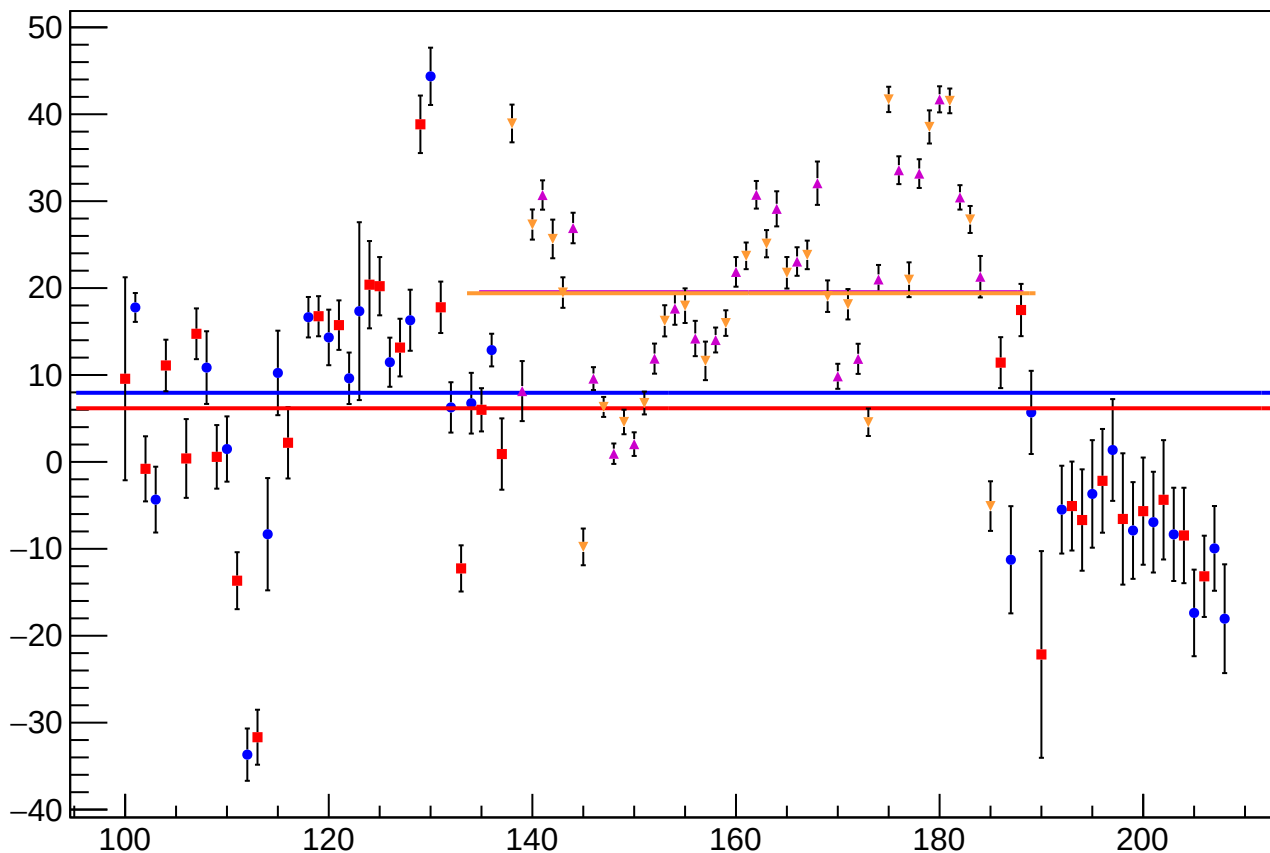
Right: 157.827 ± 0.471 $\chi^2/\text{NDF}: 10325.7/57$

In: 118.716 ± 0.340 $\chi^2/\text{NDF}: 10337.8/50$

Out: 125.150 ± 0.325 $\chi^2/\text{NDF}: 15777.6/54$

All: 122.079 ± 0.235 $\chi^2/\text{NDF}: 26302.1/105$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.953 ± 0.660 $\chi^2/\text{NDF}: 504.8/27$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 6.172 ± 0.665 $\chi^2/\text{NDF}: 492.4/29$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

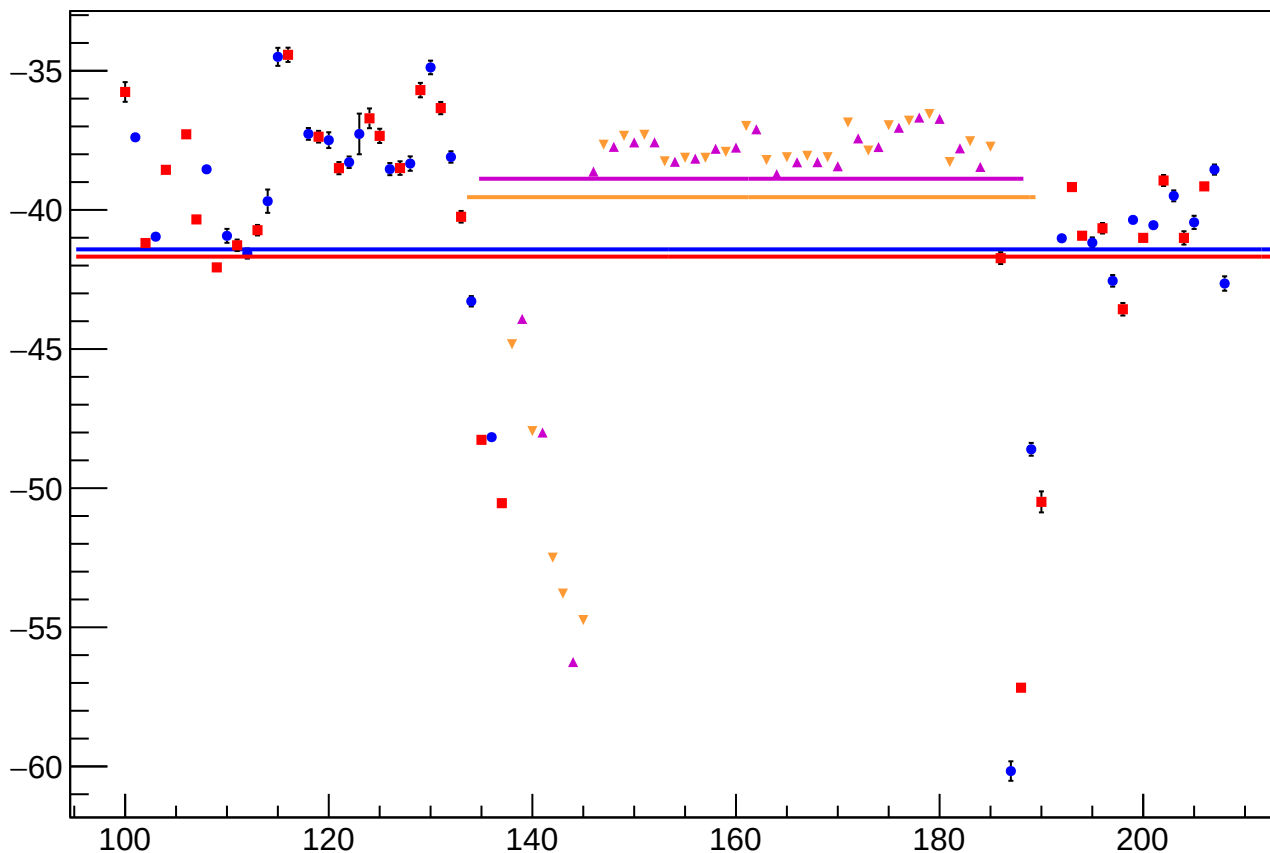
Right: 7.069 ± 0.469 $\chi^2/\text{NDF}: 1000.8/57$

In: 17.075 ± 0.304 $\chi^2/\text{NDF}: 1928.5/50$

Out: 16.734 ± 0.299 $\chi^2/\text{NDF}: 2261.4/54$

All: 16.902 ± 0.213 $\chi^2/\text{NDF}: 4190.5/105$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.418 $\pm$ 0.032 χ^2/NDF : 16840.5/27

Left Out: -39.542 $\pm$ 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.679 $\pm$ 0.032 χ^2/NDF : 23069.1/29

Left In: -38.880 $\pm$ 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 $\pm$ 0.011 χ^2/NDF : 146312.0/47

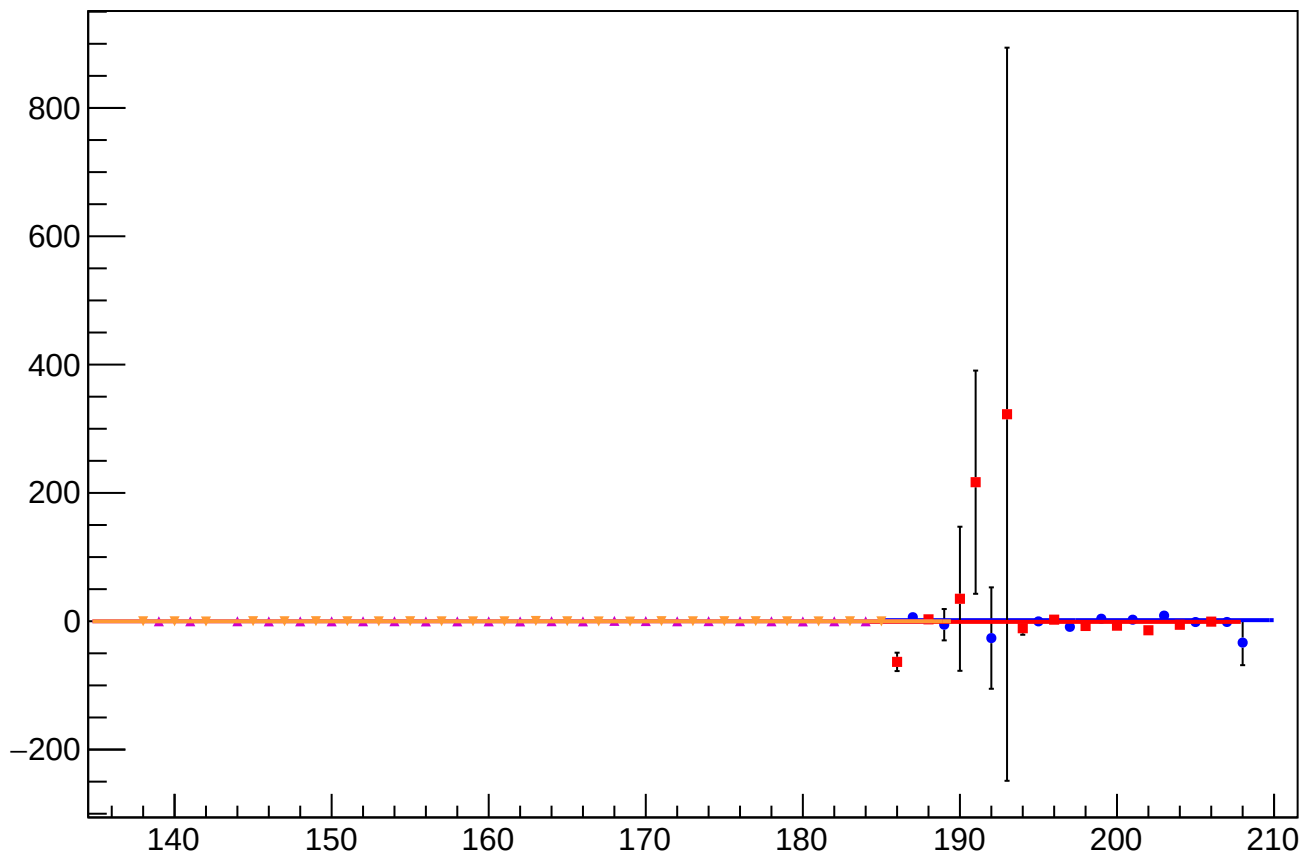
Right: -41.549 $\pm$ 0.023 χ^2/NDF : 39942.3/57

In: -39.370 $\pm$ 0.014 χ^2/NDF : 75195.3/50

Out: -39.954 $\pm$ 0.014 χ^2/NDF : 118654.7/54

All: -39.665 $\pm$ 0.010 χ^2/NDF : 194697.3/105

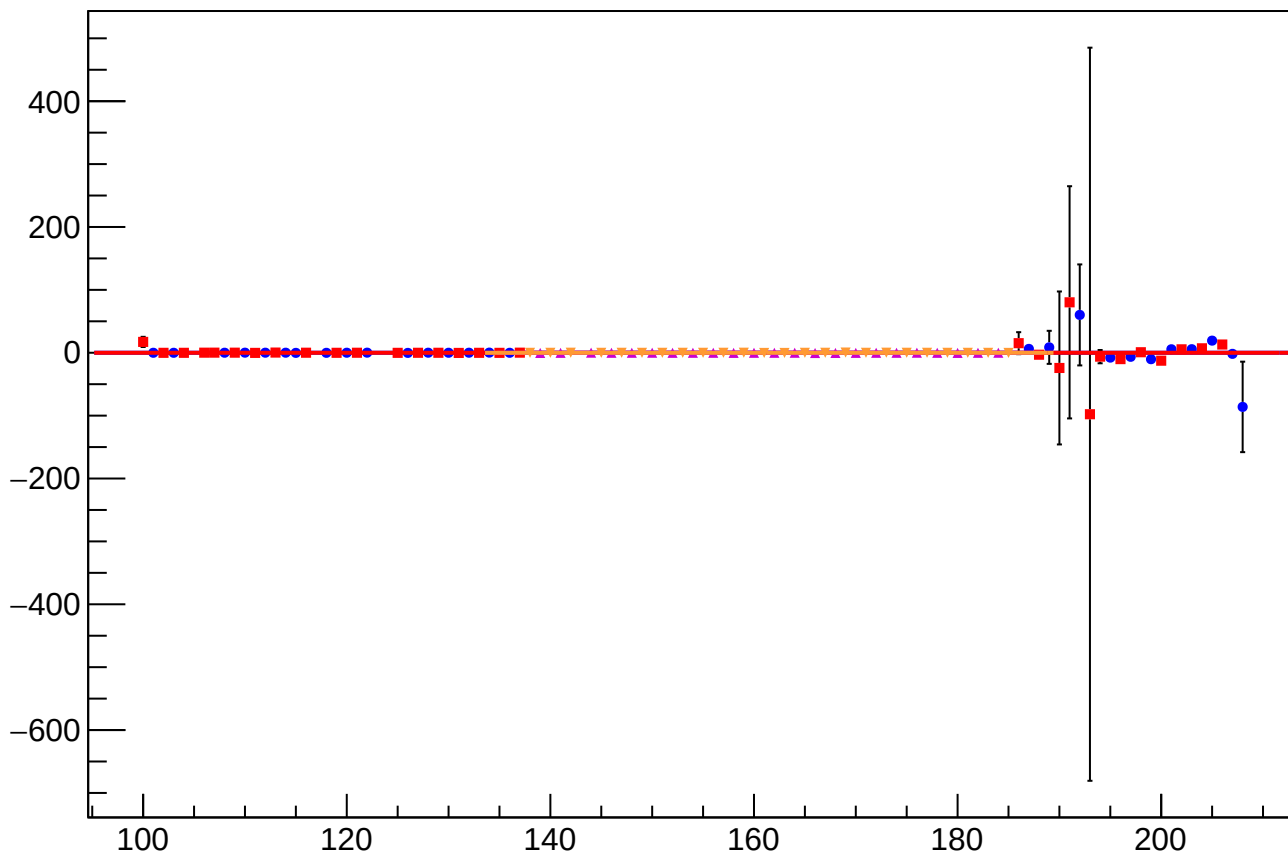
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.695 ± 1.536 $\chi^2/\text{NDF}: 12.2/10$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.995 ± 1.422 $\chi^2/\text{NDF}: 32.5/11$
 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: 0.247 ± 1.043 $\chi^2/\text{NDF}: 46.4/22$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 46.8/33$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 72.6/35$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 123.5/69$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 33.3/26

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.1/29

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

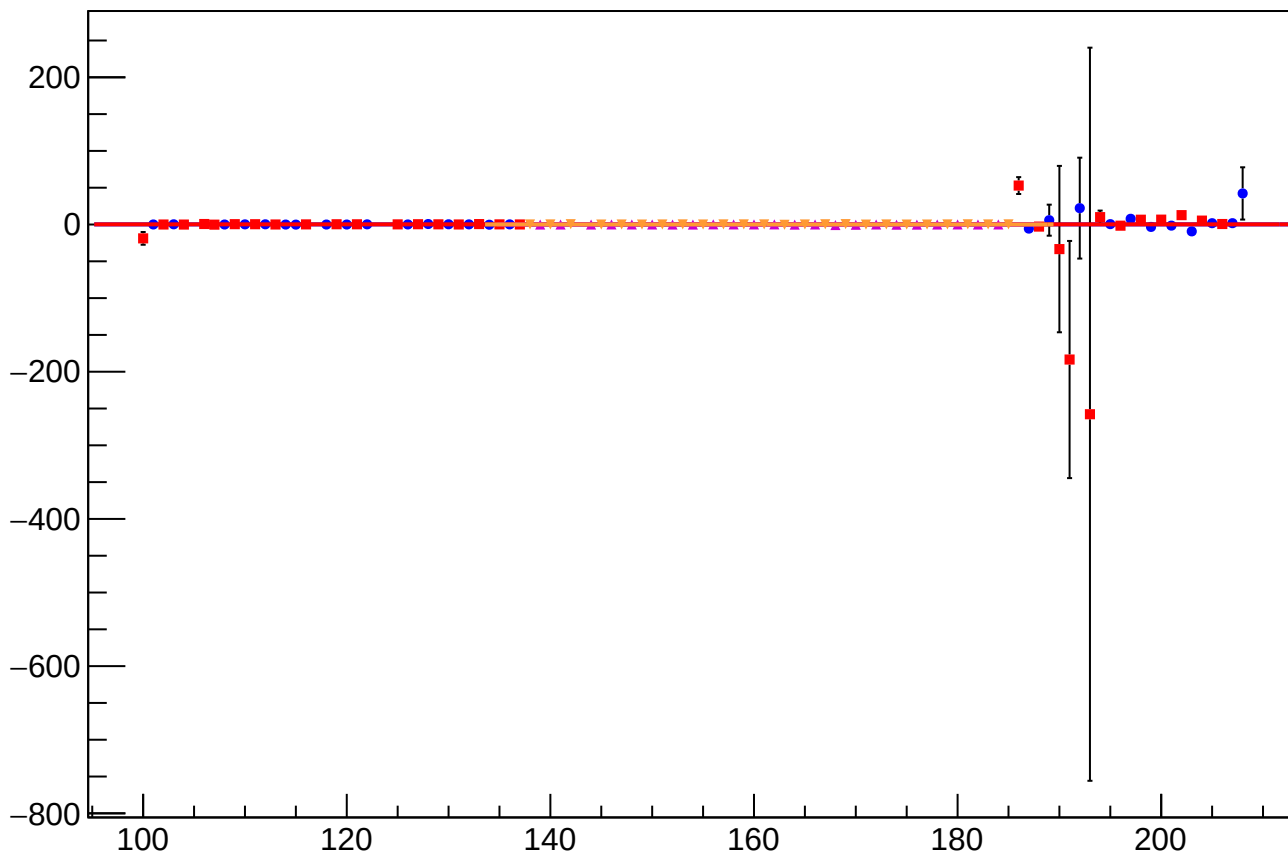
Right: -0.025 ± 0.020 χ^2/NDF : 75.8/56

In: -0.038 ± 0.015 χ^2/NDF : 67.3/49

Out: -0.073 ± 0.015 χ^2/NDF : 67.7/53

All: -0.056 ± 0.011 χ^2/NDF : 137.7/103

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 28.6/26

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 57.0/29

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

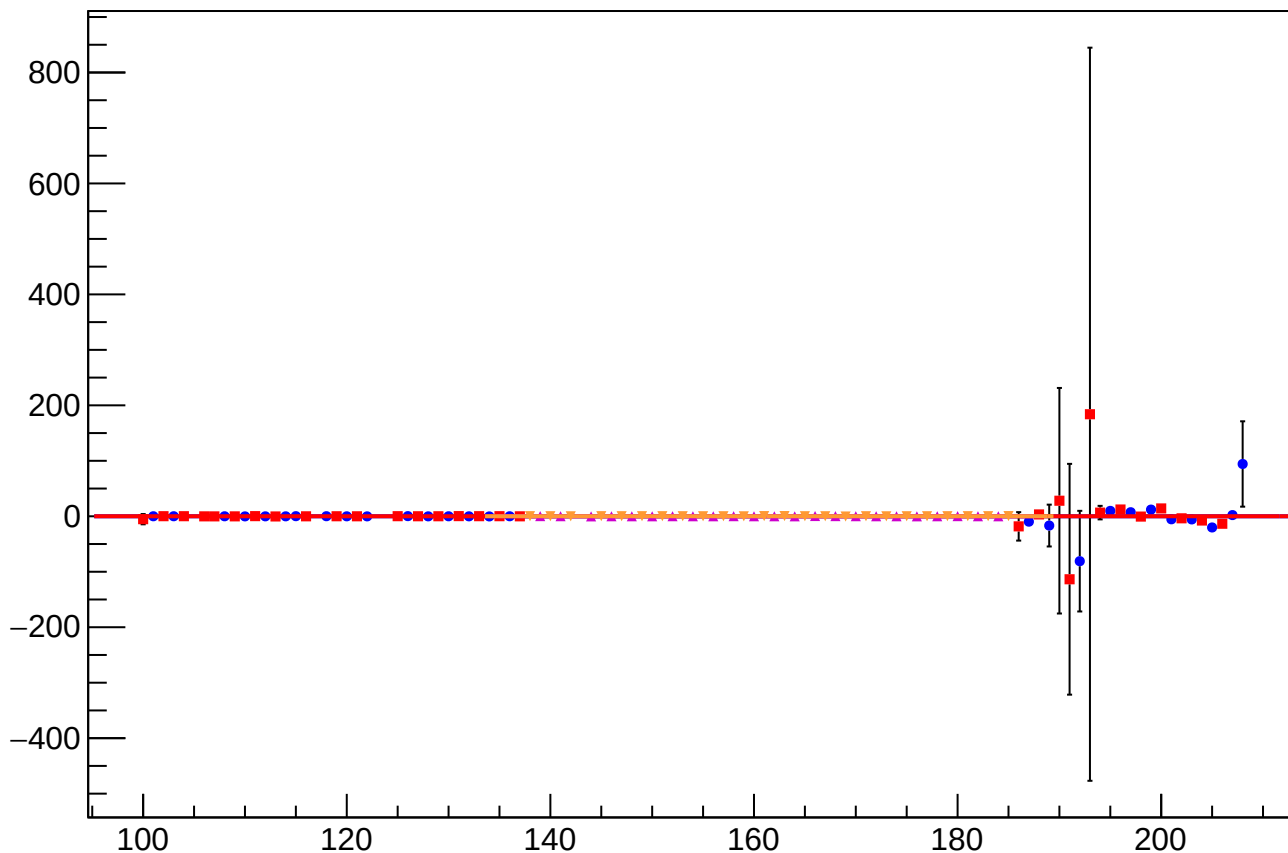
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 86.3/56

In: 0.043 $\pm$ 0.020 χ^2 /NDF:71.2/49

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:102.4/53

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 178.0/103

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 35.0/26

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.6/29

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

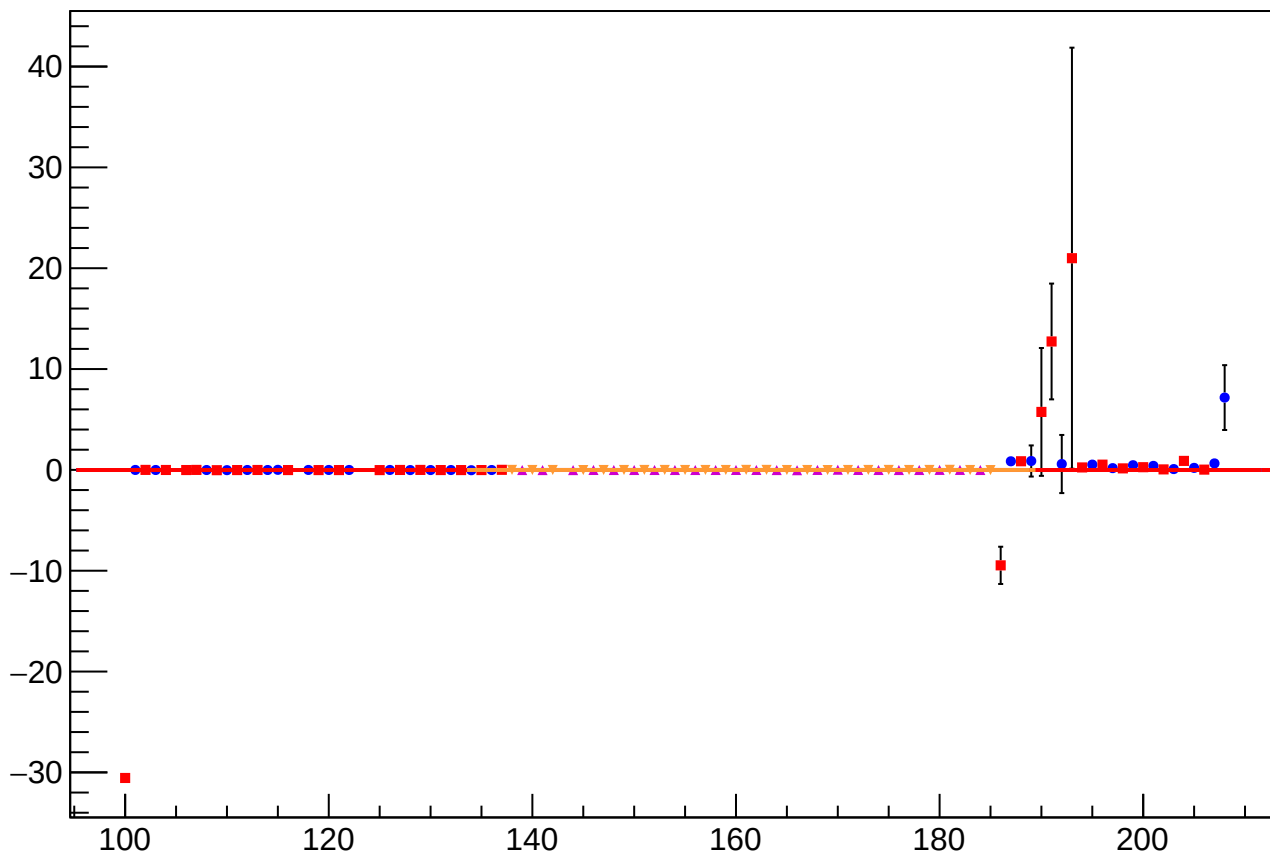
Right: 0.024 ± 0.024 χ^2/NDF : 71.4/56

In: 0.049 ± 0.017 χ^2/NDF : 70.2/49

Out: 0.093 ± 0.017 χ^2/NDF : 65.6/53

All: 0.071 ± 0.012 χ^2/NDF : 139.2/103

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 46.6/26

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.3/29

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

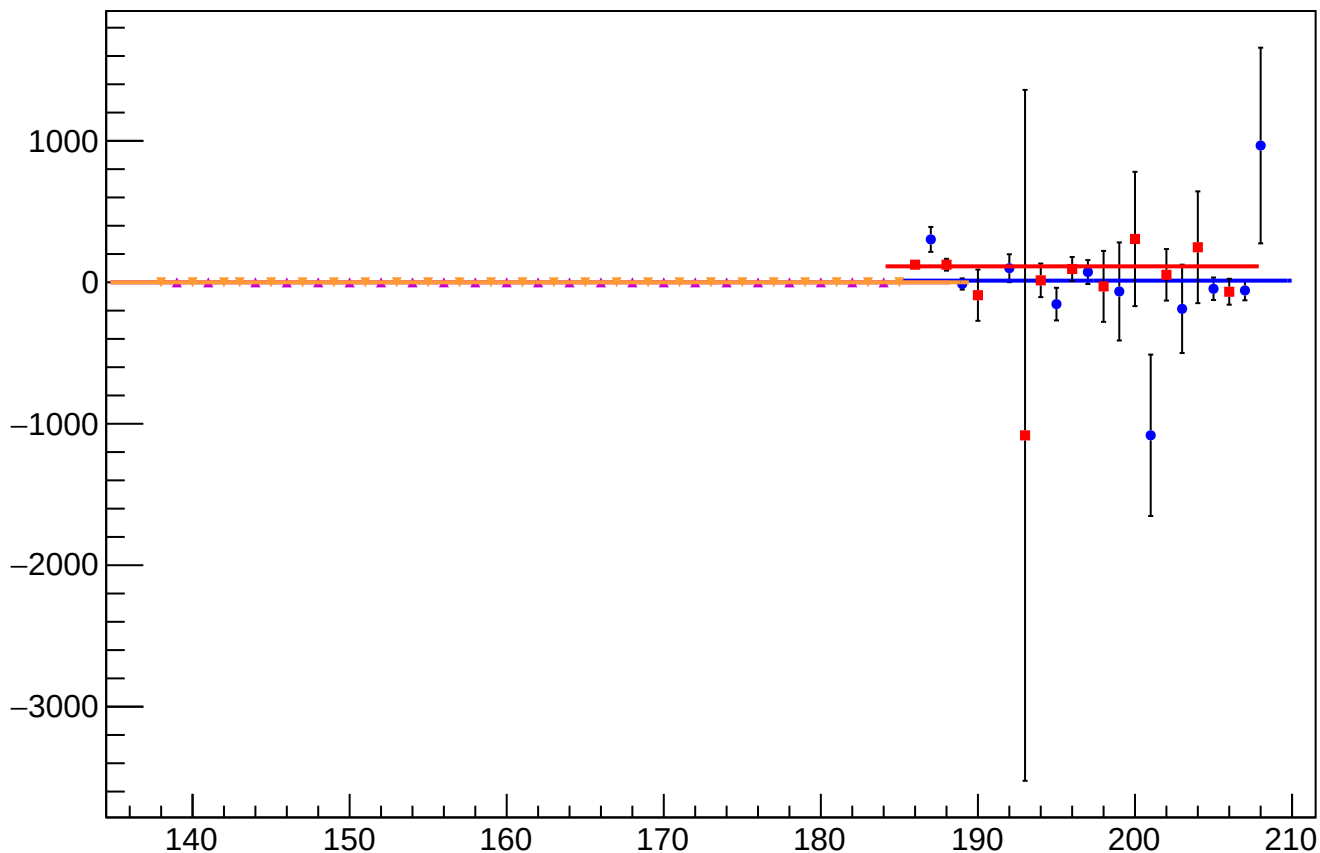
Right: -0.012 ± 0.001 χ^2/NDF : 12000.9/56

In: -0.009 ± 0.001 χ^2/NDF : 89.6/49

Out: -0.009 ± 0.001 χ^2/NDF : 11988.2/53

All: -0.009 ± 0.001 χ^2/NDF : 12078.0/103

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.895 $\pm$ 26.038 χ^2 /NDF: 22.2/10

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 112.948 $\pm$ 16.185 χ^2 /NDF: 7.3/10

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

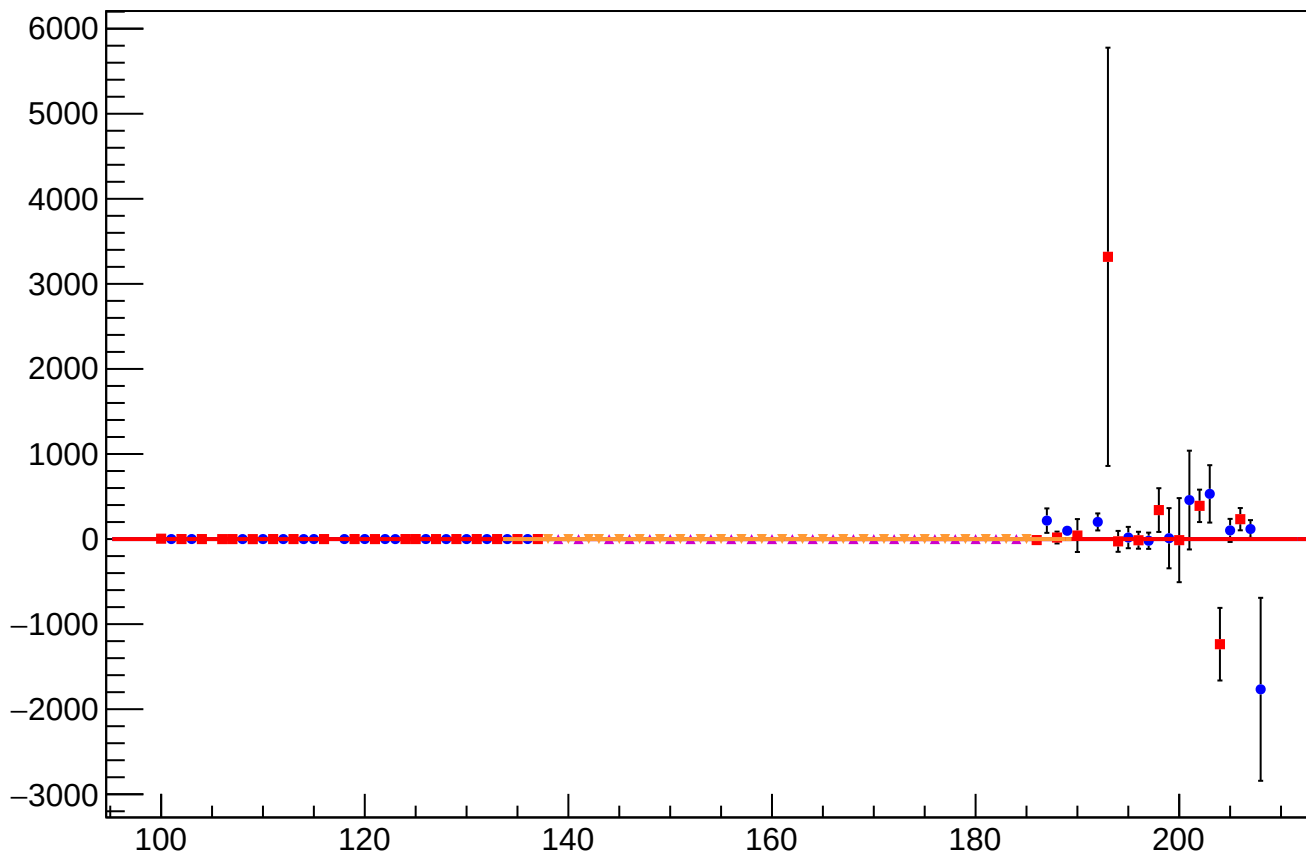
Right: 84.785 $\pm$ 13.746 χ^2 /NDF: 40.3/21

In: 0.002 $\pm$ 0.028 χ^2 /NDF:51.4/33

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:86.9/35

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 138.5/69

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 41.7/27$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 38.3/29$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

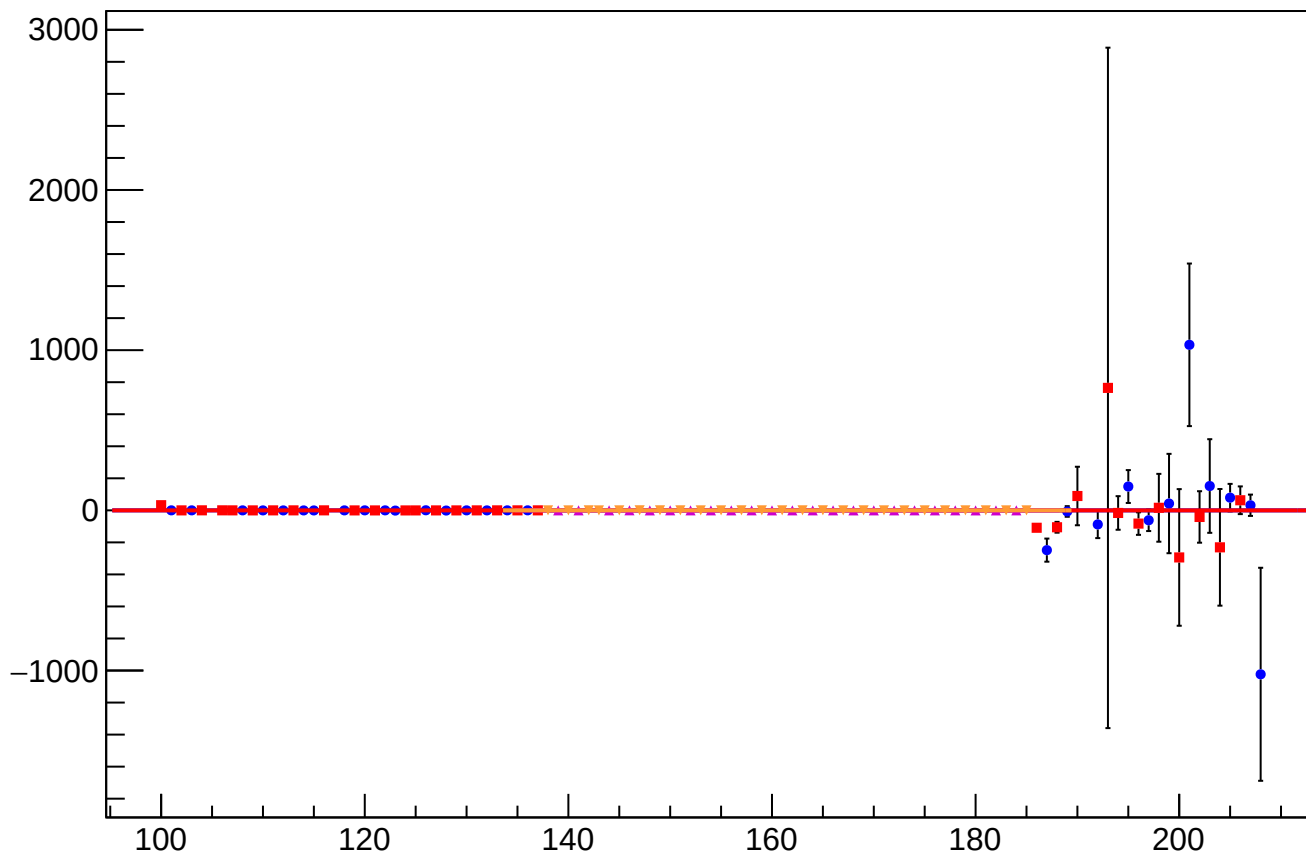
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 83.3/57$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 92.0/50$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 64.7/54$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 157.1/105$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 48.5/27$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 79.1/29$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

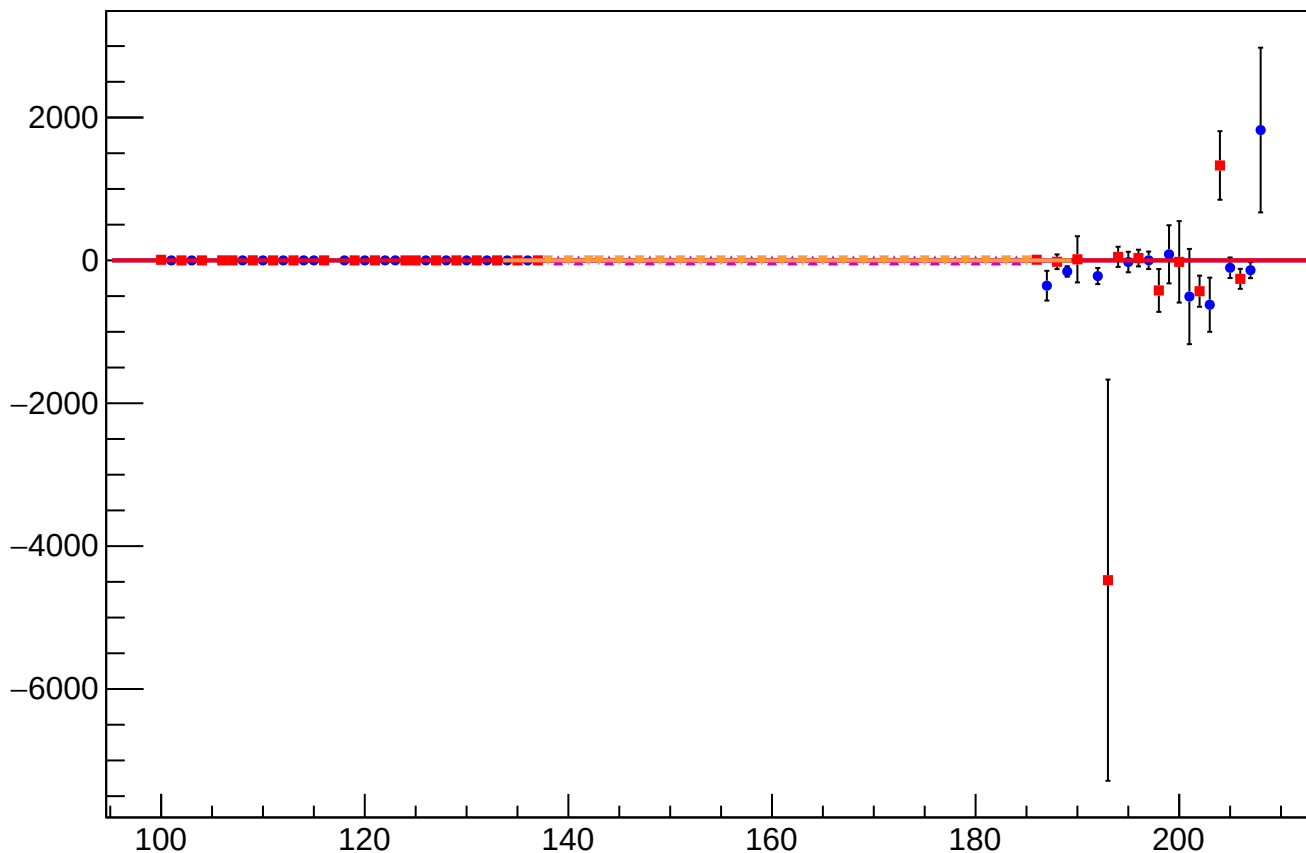
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 127.7/57$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 79.0/50$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 112.0/54$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 191.0/105$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 40.6/27

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 36.6/29

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

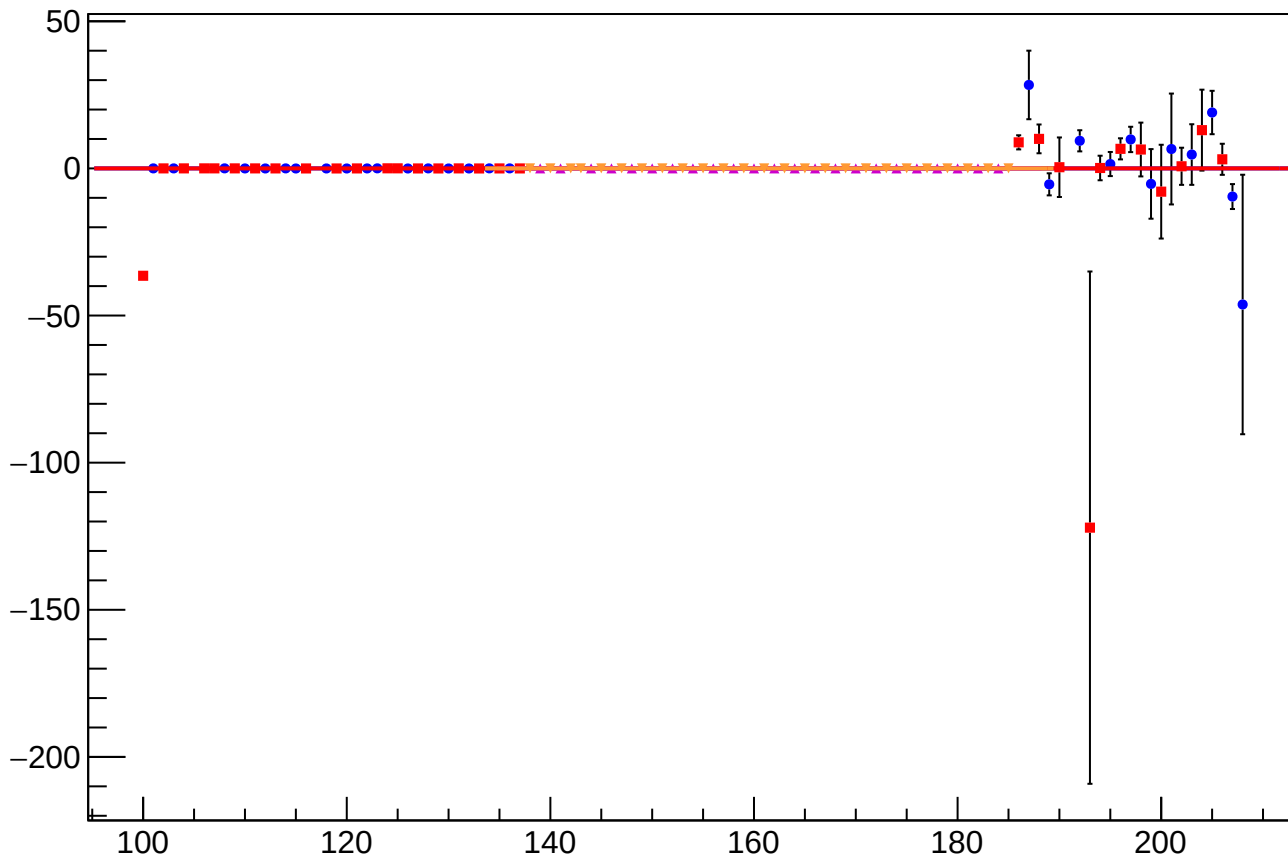
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 81.3/57

In: 0.056 $\pm$ 0.021 χ^2 /NDF:93.4/50

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:63.7/54

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 157.9/105

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 64.0/27

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10474.3/29

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

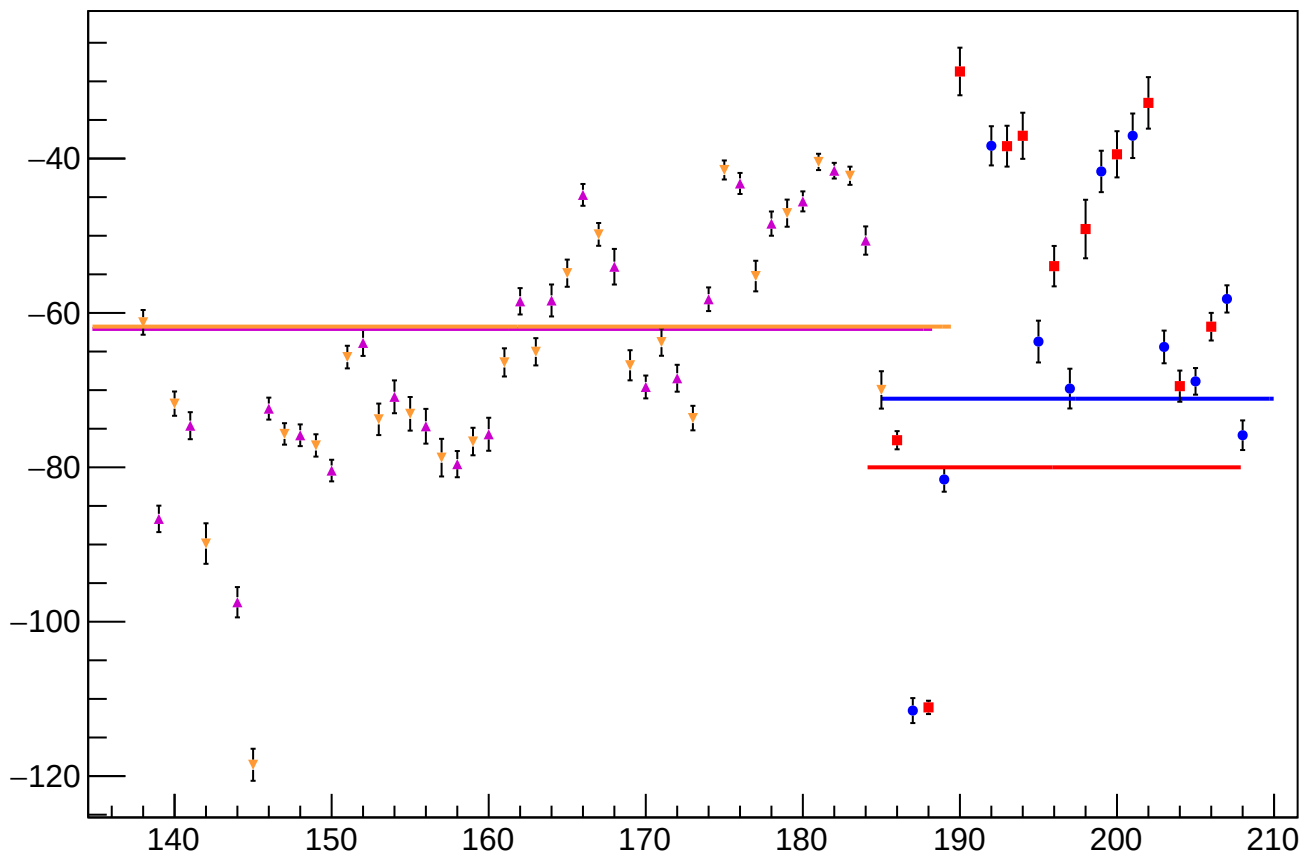
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10538.4/57

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 88.5/50

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10509.6/54

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10598.2/105

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.110 ± 0.616 $\chi^2/\text{NDF}: 1173.0/10$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -80.000 ± 0.543 $\chi^2/\text{NDF}: 2714.9/10$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

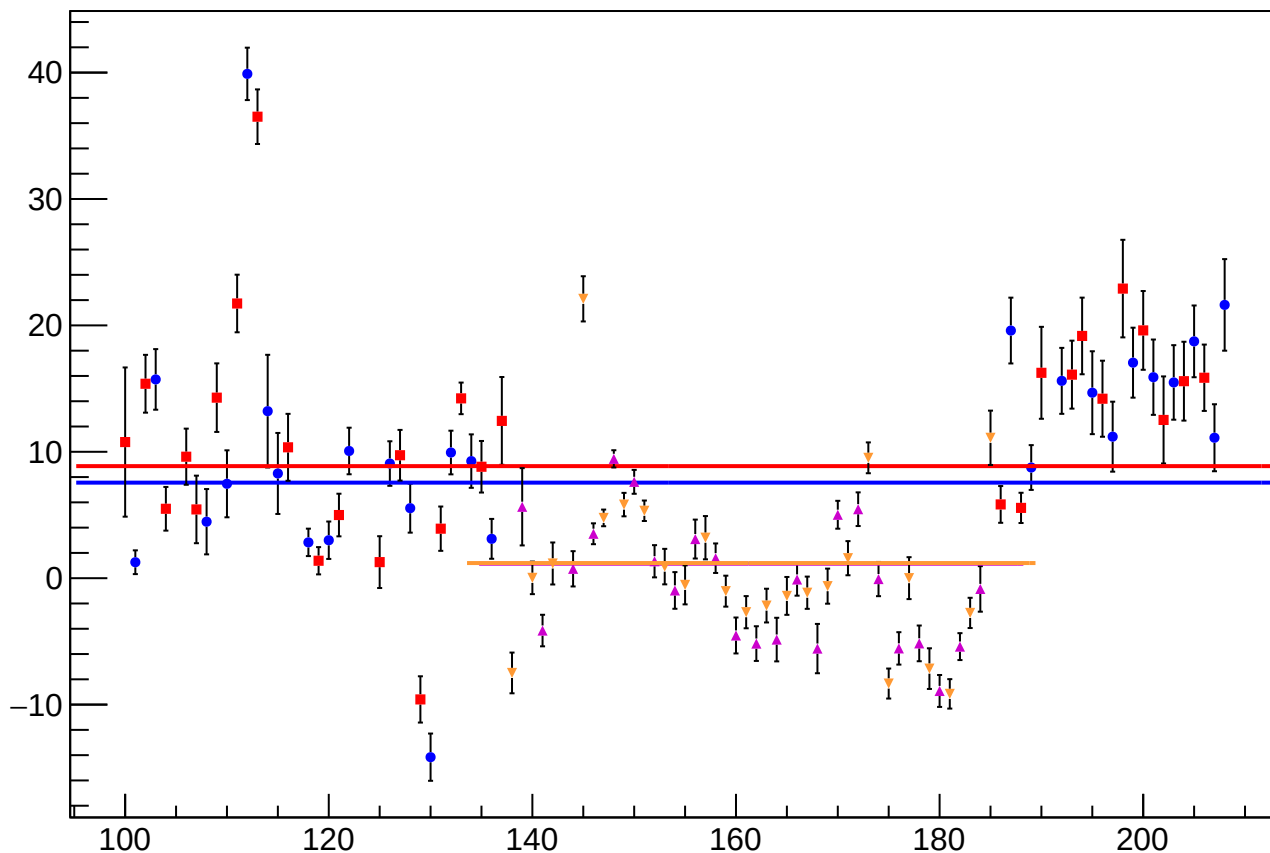
Right: -76.117 ± 0.407 $\chi^2/\text{NDF}: 4005.1/21$

In: -64.109 ± 0.293 $\chi^2/\text{NDF}: 3531.5/33$

Out: -66.775 ± 0.284 $\chi^2/\text{NDF}: 6038.1/34$

All: -65.480 ± 0.204 $\chi^2/\text{NDF}: 9612.3/68$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.560 ± 0.379 $\chi^2/\text{NDF}: 577.5/26$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.866 ± 0.379 $\chi^2/\text{NDF}: 486.3/28$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

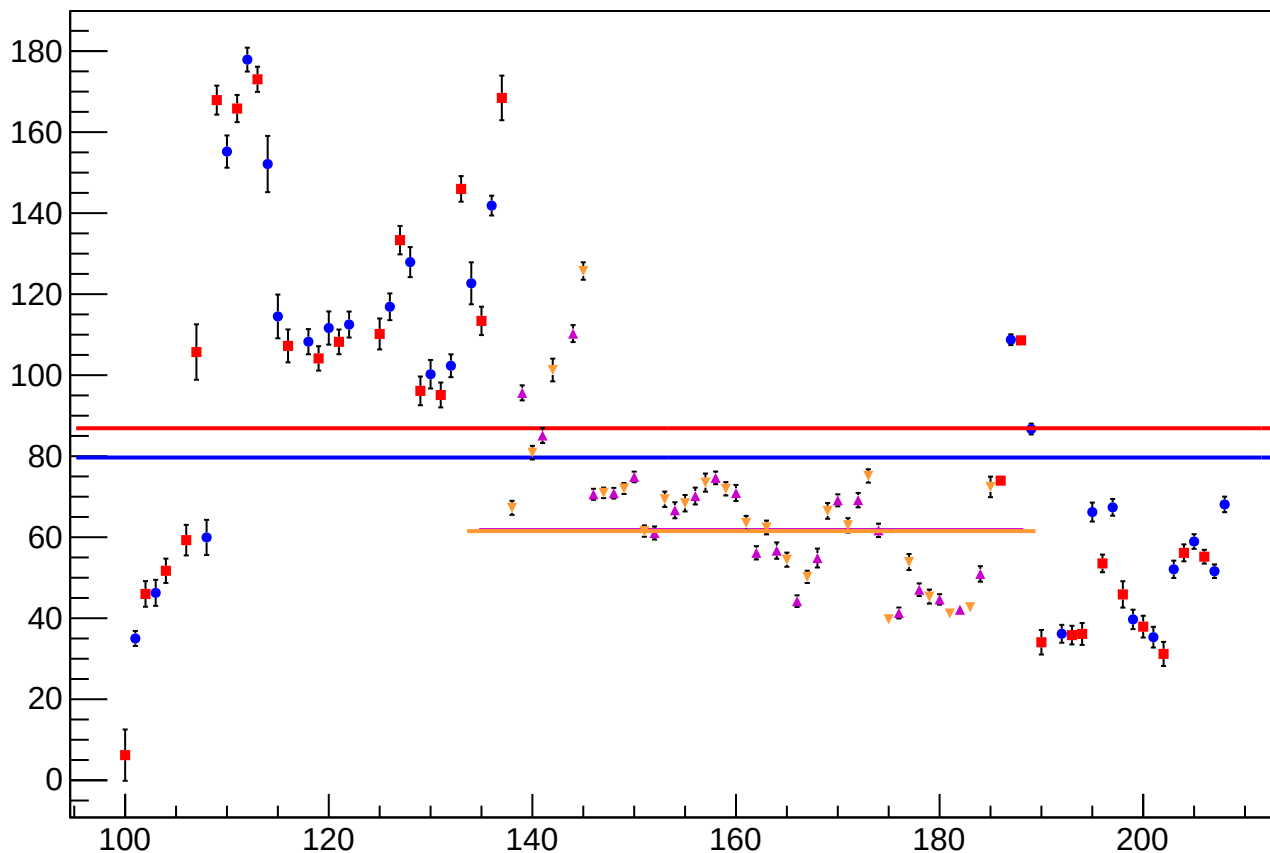
Right: 8.214 ± 0.268 $\chi^2/\text{NDF}: 1069.7/55$

In: 3.146 ± 0.212 $\chi^2/\text{NDF}: 1237.2/49$

Out: 3.560 ± 0.210 $\chi^2/\text{NDF}: 1296.5/52$

All: 3.355 ± 0.149 $\chi^2/\text{NDF}: 2535.7/102$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 79.674 $\pm$ 0.459 χ^2 /NDF: 5849.4/26

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 86.898 $\pm$ 0.402 χ^2 /NDF: 7271.0/28

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

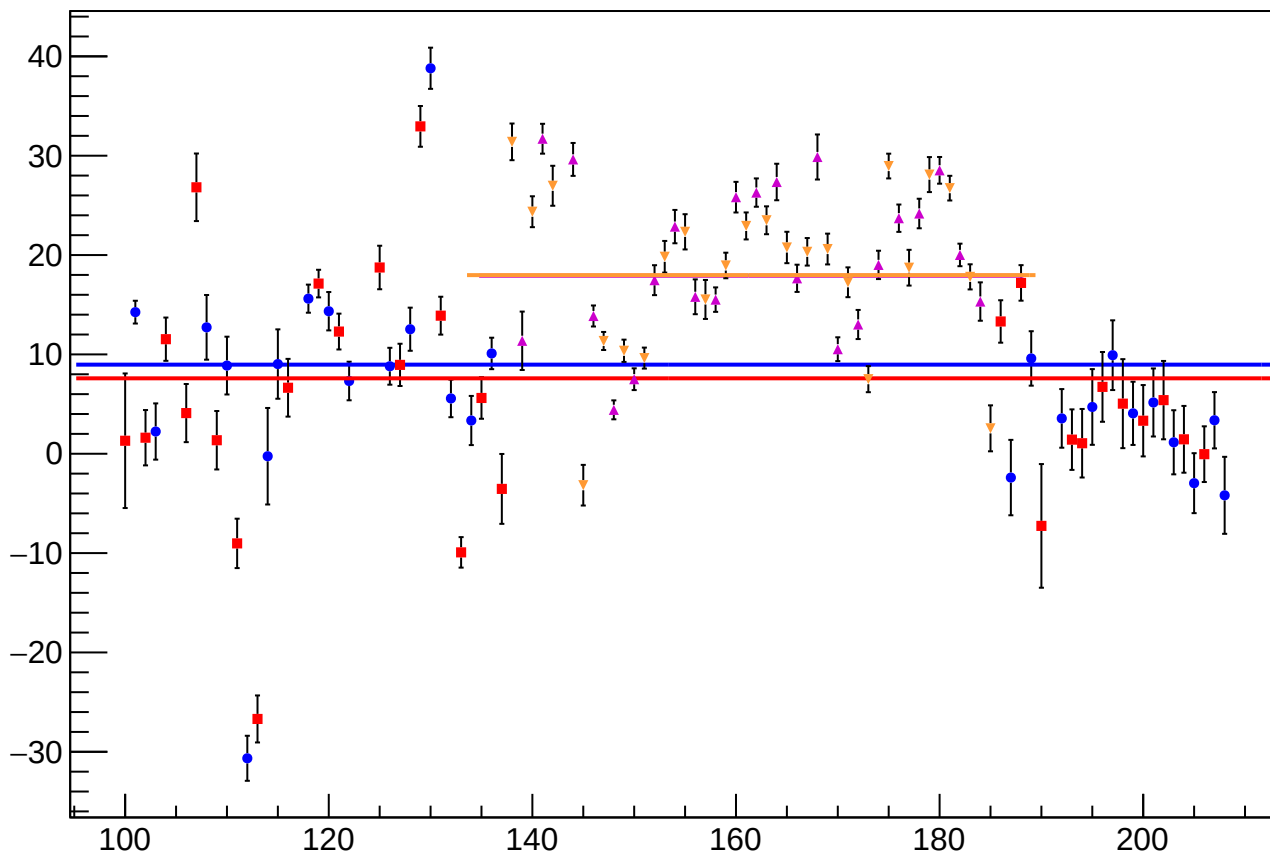
Right: 83.766 $\pm$ 0.302 χ^2 /NDF: 13260.5/55

In: 67.859 $\pm$ 0.268 χ^2 /NDF: 9270.6/49

Out: 71.822 $\pm$ 0.256 χ^2 /NDF: 12246.9/52

All: 69.930 $\pm$ 0.185 χ^2 /NDF: 21631.8/102

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.969 ± 0.444 χ^2/NDF : 641.1/26

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.591 ± 0.453 χ^2/NDF : 748.9/28

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

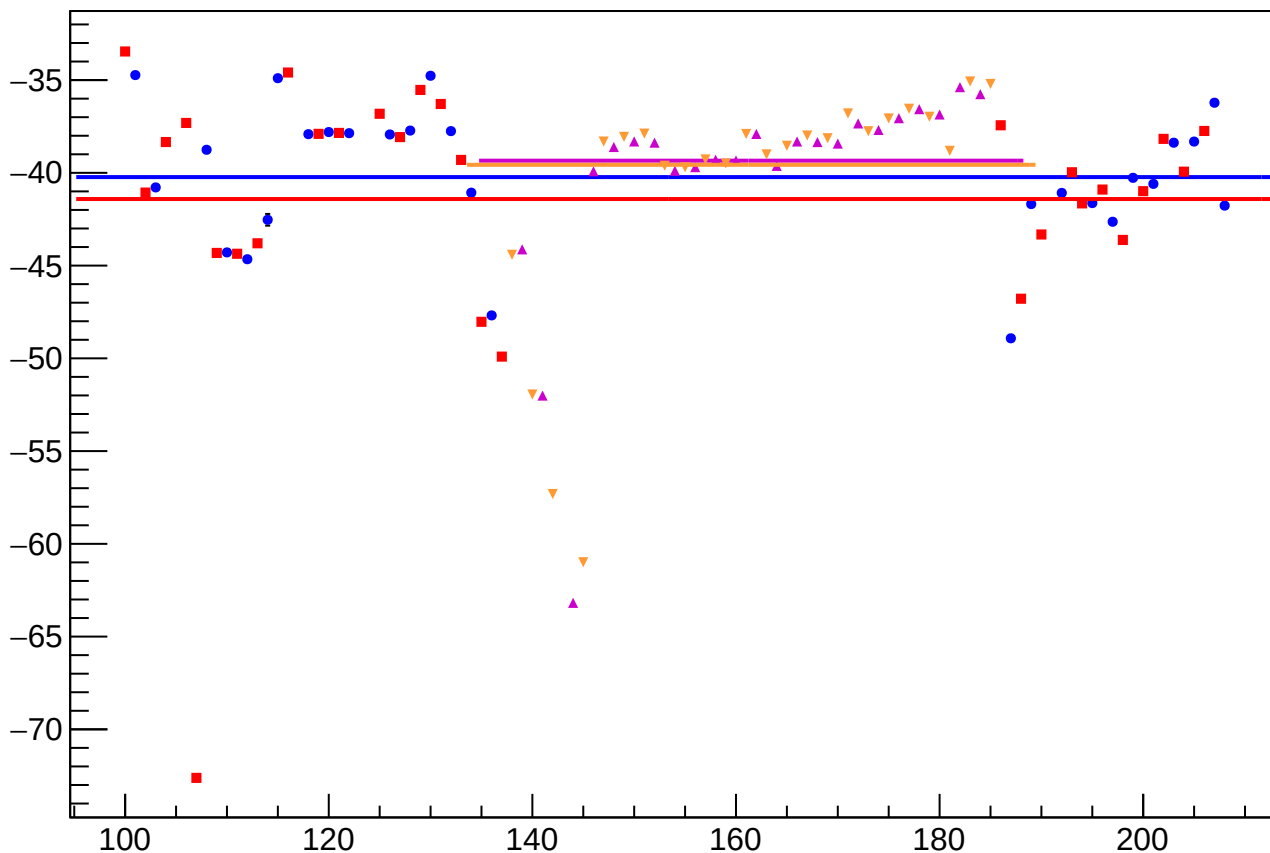
Right: 8.294 ± 0.317 χ^2/NDF : 1394.6/55

In: 15.209 ± 0.244 χ^2/NDF : 1651.0/49

Out: 14.945 ± 0.245 χ^2/NDF : 1795.9/52

All: 15.077 ± 0.173 χ^2/NDF : 3447.5/102

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.229 ± 0.022 $\chi^2/\text{NDF}: 29430.2/26$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.411 ± 0.022 $\chi^2/\text{NDF}: 68553.3/28$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

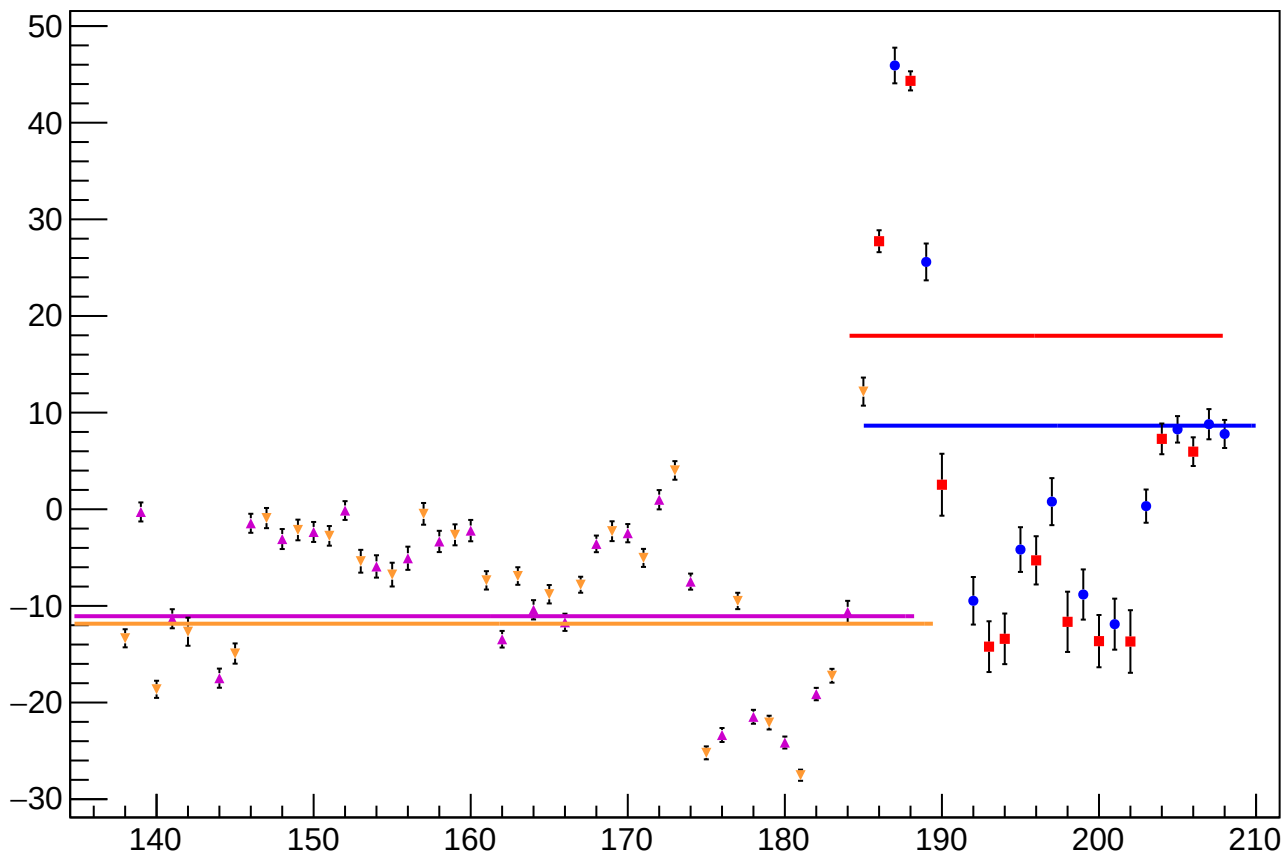
Right: -40.821 ± 0.016 $\chi^2/\text{NDF}: 99426.2/55$

In: -39.588 ± 0.012 $\chi^2/\text{NDF}: 147215.7/49$

Out: -40.084 ± 0.012 $\chi^2/\text{NDF}: 214816.7/52$

All: -39.834 ± 0.008 $\chi^2/\text{NDF}: 362943.6/102$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.650 ± 0.565 χ^2/NDF : 712.1/10

Left Out: -11.842 ± 0.187 χ^2/NDF : 2739.8/23

Right Out: 17.953 ± 0.532 χ^2/NDF : 1619.6/10

Left In: -11.067 ± 0.188 χ^2/NDF : 2104.8/22

Left: -11.457 ± 0.133 χ^2/NDF : 4853.2/46

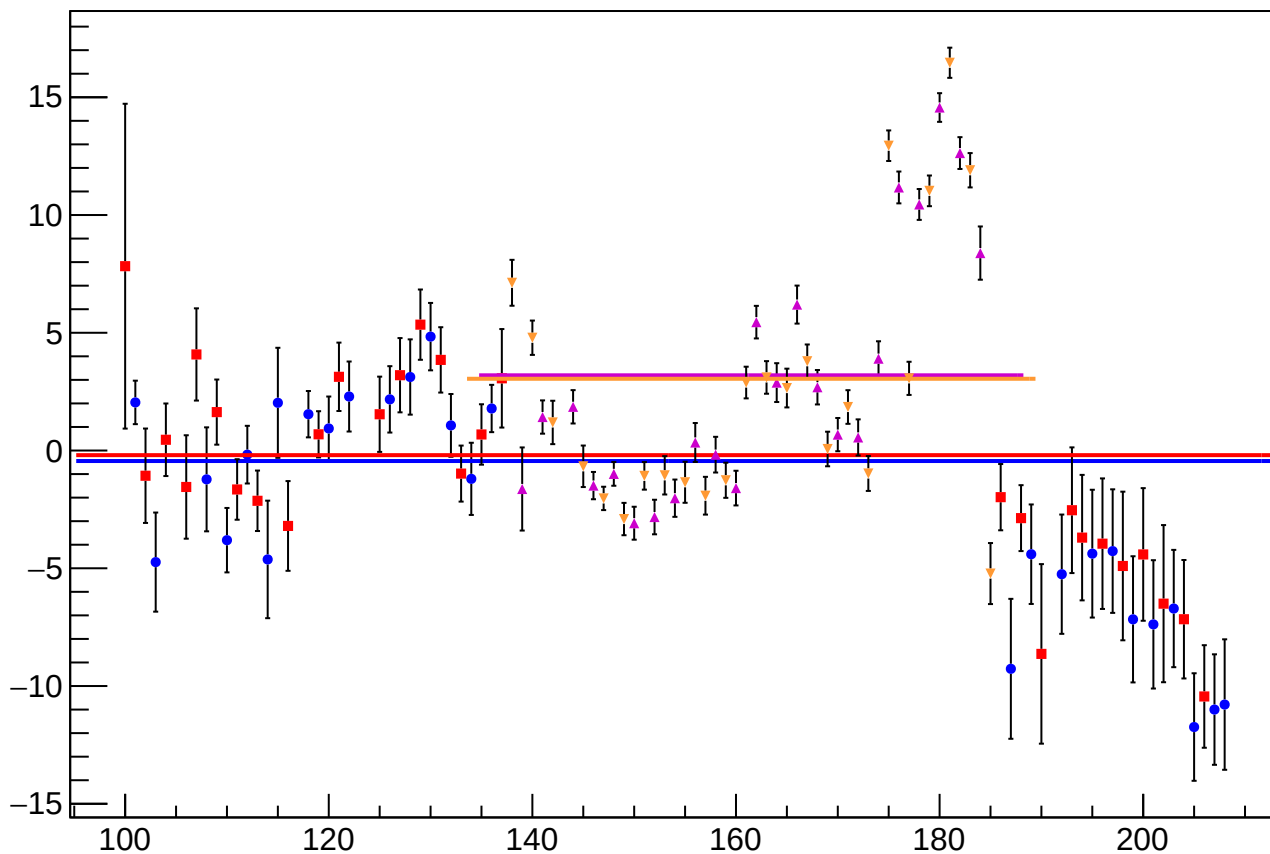
Right: 13.576 ± 0.387 χ^2/NDF : 2475.5/21

In: -9.100 ± 0.178 χ^2/NDF : 3914.6/33

Out: -8.574 ± 0.176 χ^2/NDF : 7149.4/34

All: -8.834 ± 0.125 χ^2/NDF : 11068.4/68

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.446 ± 0.312 χ^2/NDF : 156.5/26

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.197 ± 0.314 χ^2/NDF : 104.5/28

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

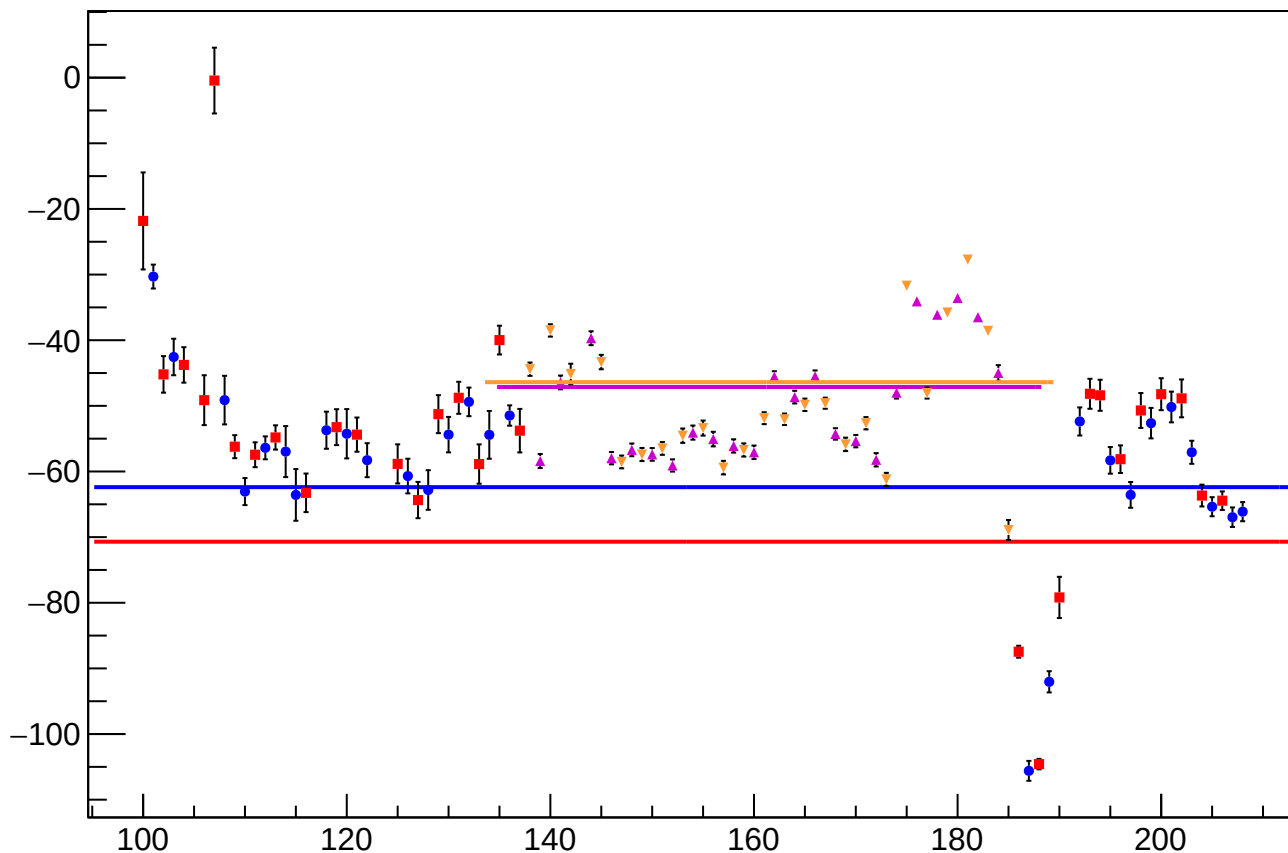
Right: -0.322 ± 0.221 χ^2/NDF : 261.4/55

In: 2.512 ± 0.135 χ^2/NDF : 1561.9/49

Out: 2.457 ± 0.134 χ^2/NDF : 1649.3/52

All: 2.484 ± 0.095 χ^2/NDF : 3211.3/102

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.387 ± 0.400 χ^2/NDF : 1754.5/26

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.696 ± 0.368 χ^2/NDF : 3725.9/28

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

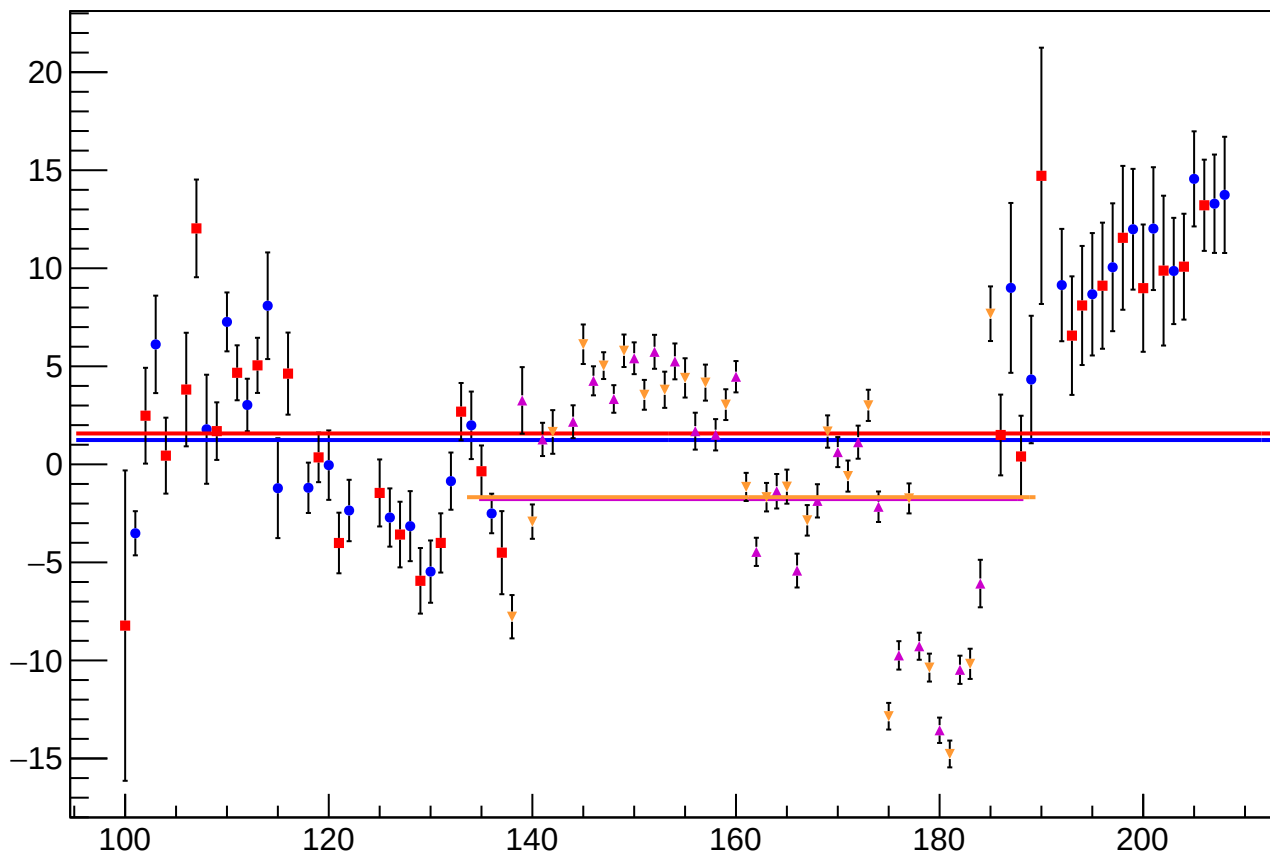
Right: -66.886 ± 0.271 χ^2/NDF : 5714.5/55

In: -49.874 ± 0.170 χ^2/NDF : 5466.7/49

Out: -51.368 ± 0.166 χ^2/NDF : 10487.0/52

All: -50.635 ± 0.119 χ^2/NDF : 15993.2/102

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.240 ± 0.356 χ^2/NDF : 233.2/26

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 1.575 ± 0.362 χ^2/NDF : 174.3/28

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

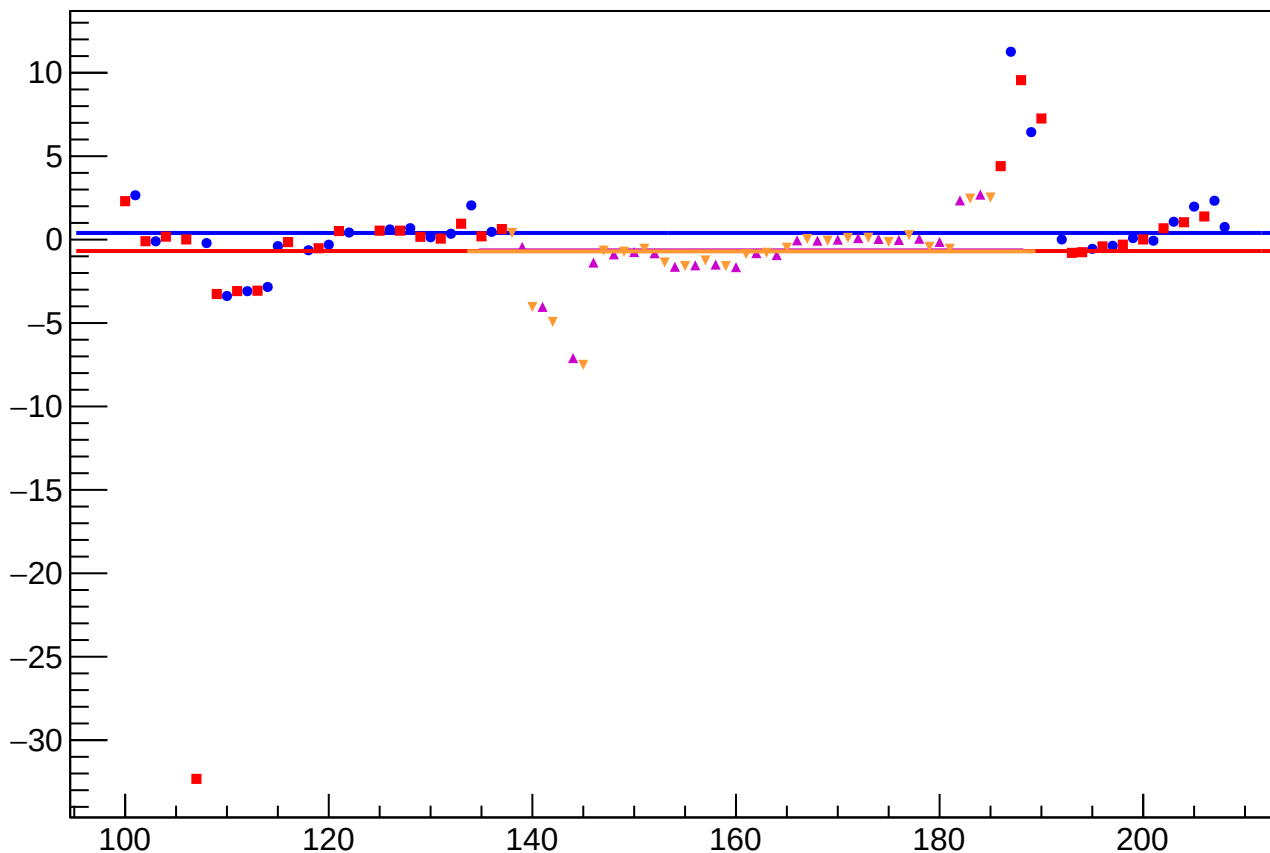
Right: 1.404 ± 0.254 χ^2/NDF : 407.9/55

In: -1.217 ± 0.153 χ^2/NDF : 1543.0/49

Out: -1.106 ± 0.152 χ^2/NDF : 1724.4/52

All: -1.161 ± 0.108 χ^2/NDF : 3267.6/102

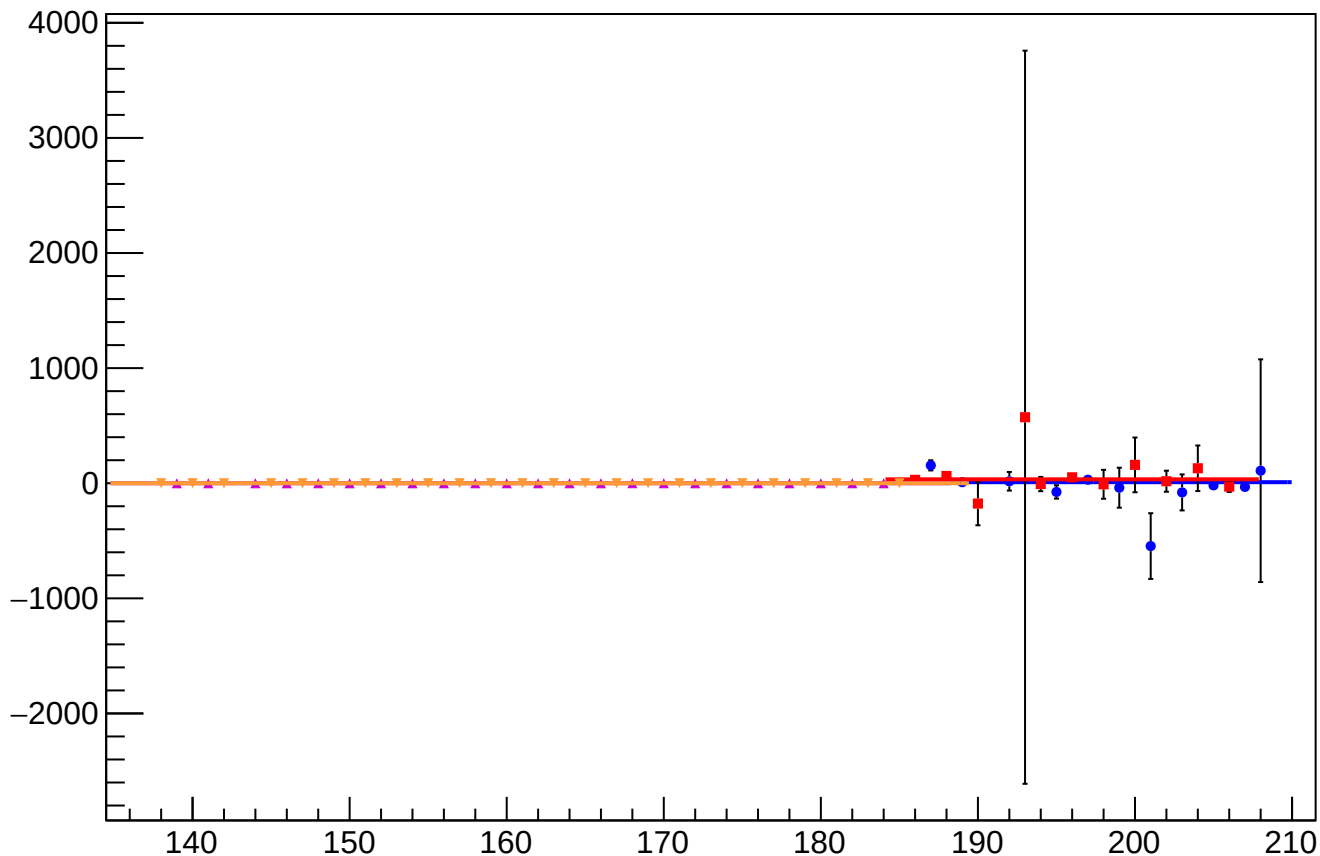
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.399 ± 0.018 $\chi^2/\text{NDF}: 9957.3/26$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.684 ± 0.018 $\chi^2/\text{NDF}: 93365.0/28$
 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: -0.138 ± 0.013 $\chi^2/\text{NDF}: 105140.7/55$
 In: -0.482 ± 0.007 $\chi^2/\text{NDF}: 57000.4/49$
 Out: -0.699 ± 0.007 $\chi^2/\text{NDF}: 147200.7/52$
 All: -0.591 ± 0.005 $\chi^2/\text{NDF}: 204676.8/102$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.021 ± 15.215 $\chi^2/\text{NDF}: 19.4/10$

Left Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 35.4/23$

Right Out: 33.992 ± 9.677 $\chi^2/\text{NDF}: 6.6/10$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.024 ± 0.013 $\chi^2/\text{NDF}: 71.7/46$

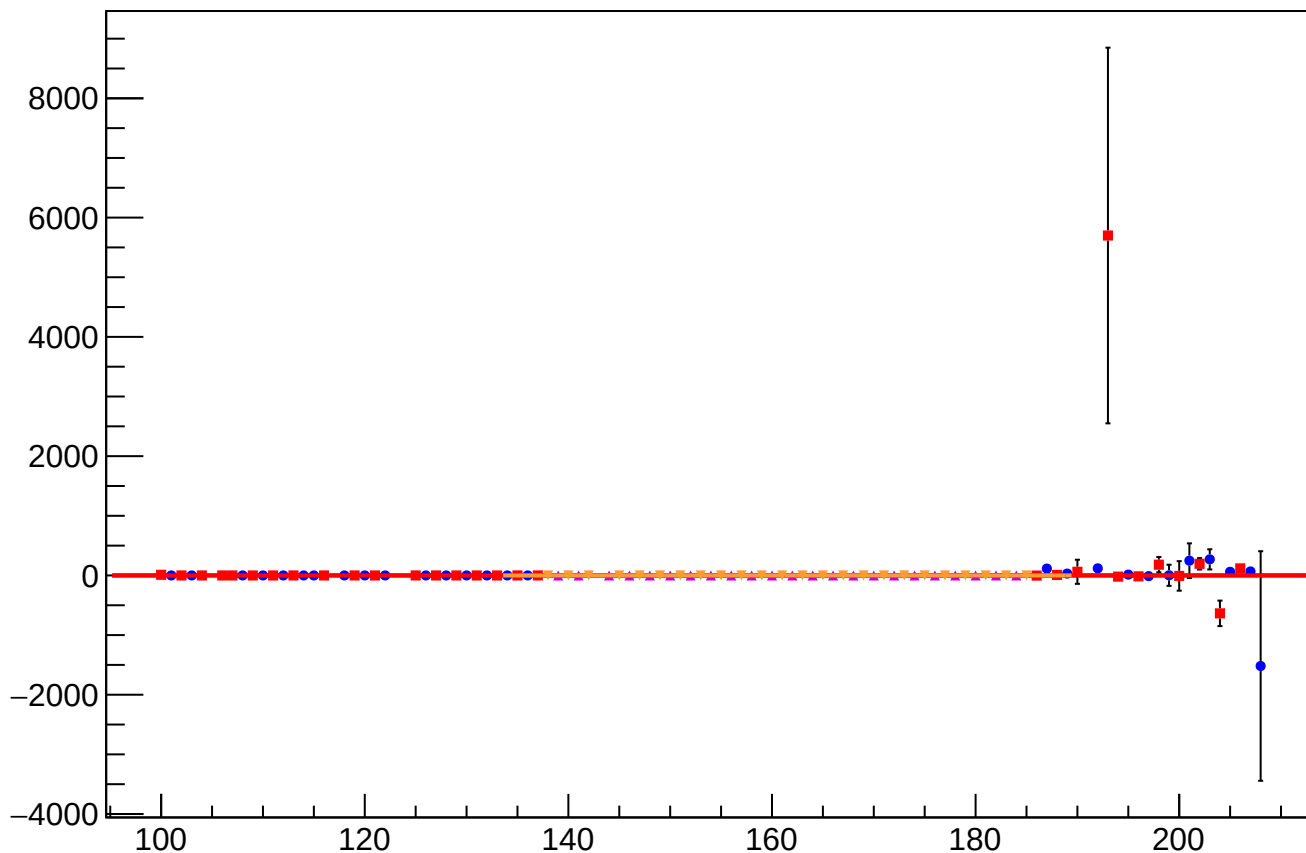
Right: 26.800 ± 8.165 $\chi^2/\text{NDF}: 27.9/21$

In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 54.9/33$

Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 54.4/34$

All: -0.024 ± 0.013 $\chi^2/\text{NDF}: 110.4/68$

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023 χ^2 /NDF: 24.1/26

Left Out: -0.073 $\pm$ 0.014 χ^2 /NDF: 27.8/23

Right Out: -0.088 $\pm$ 0.025 χ^2 /NDF: 34.8/28

Left In: -0.064 $\pm$ 0.014 χ^2 /NDF: 41.1/22

Left: -0.068 $\pm$ 0.010 χ^2 /NDF: 69.1/46

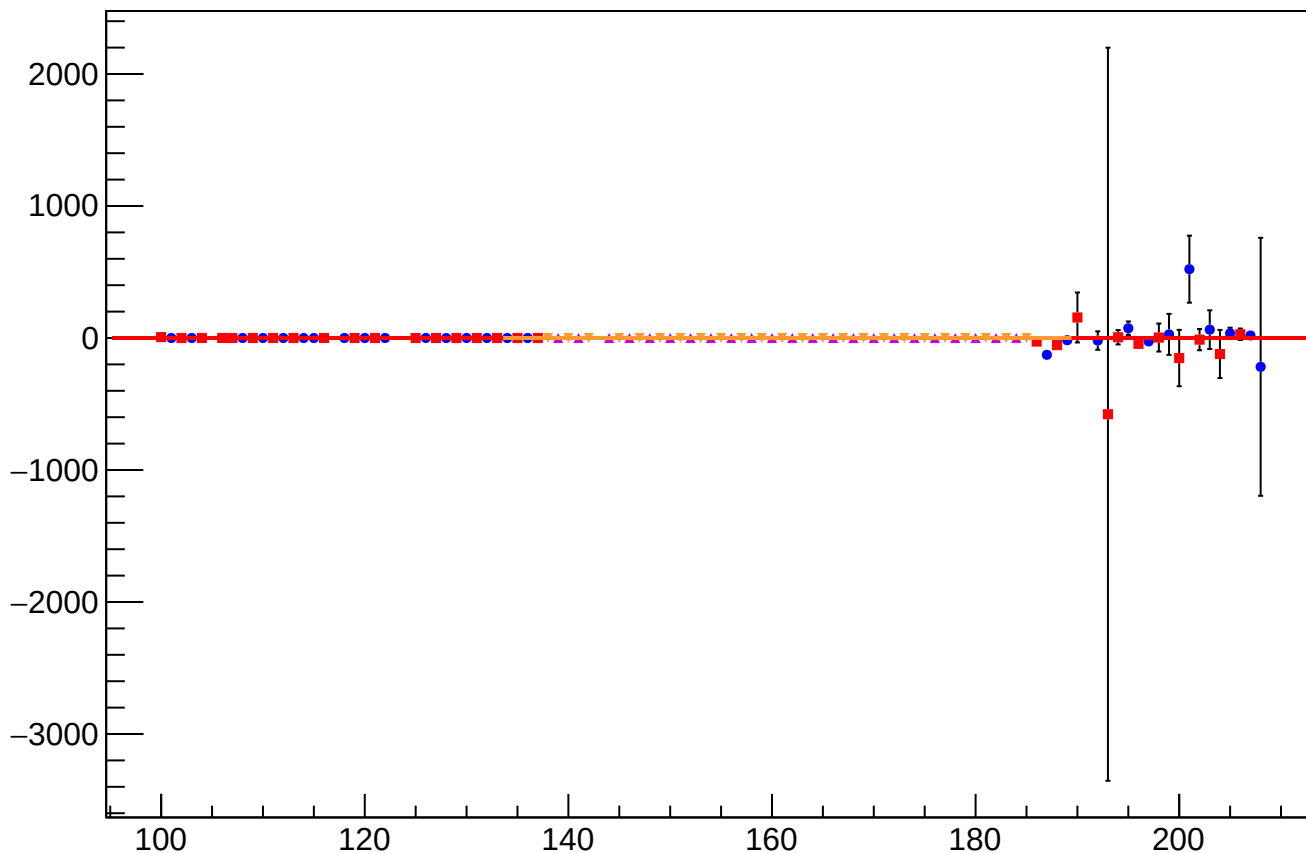
Right: -0.048 $\pm$ 0.017 χ^2 /NDF: 63.7/55

In: -0.050 $\pm$ 0.012 χ^2 /NDF: 68.6/49

Out: -0.076 $\pm$ 0.012 χ^2 /NDF: 62.9/52

All: -0.063 $\pm$ 0.009 χ^2 /NDF: 133.7/102

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 30.2/26

Left Out: 0.035+/-0.018 χ^2/NDF : 32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 30.7/28

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

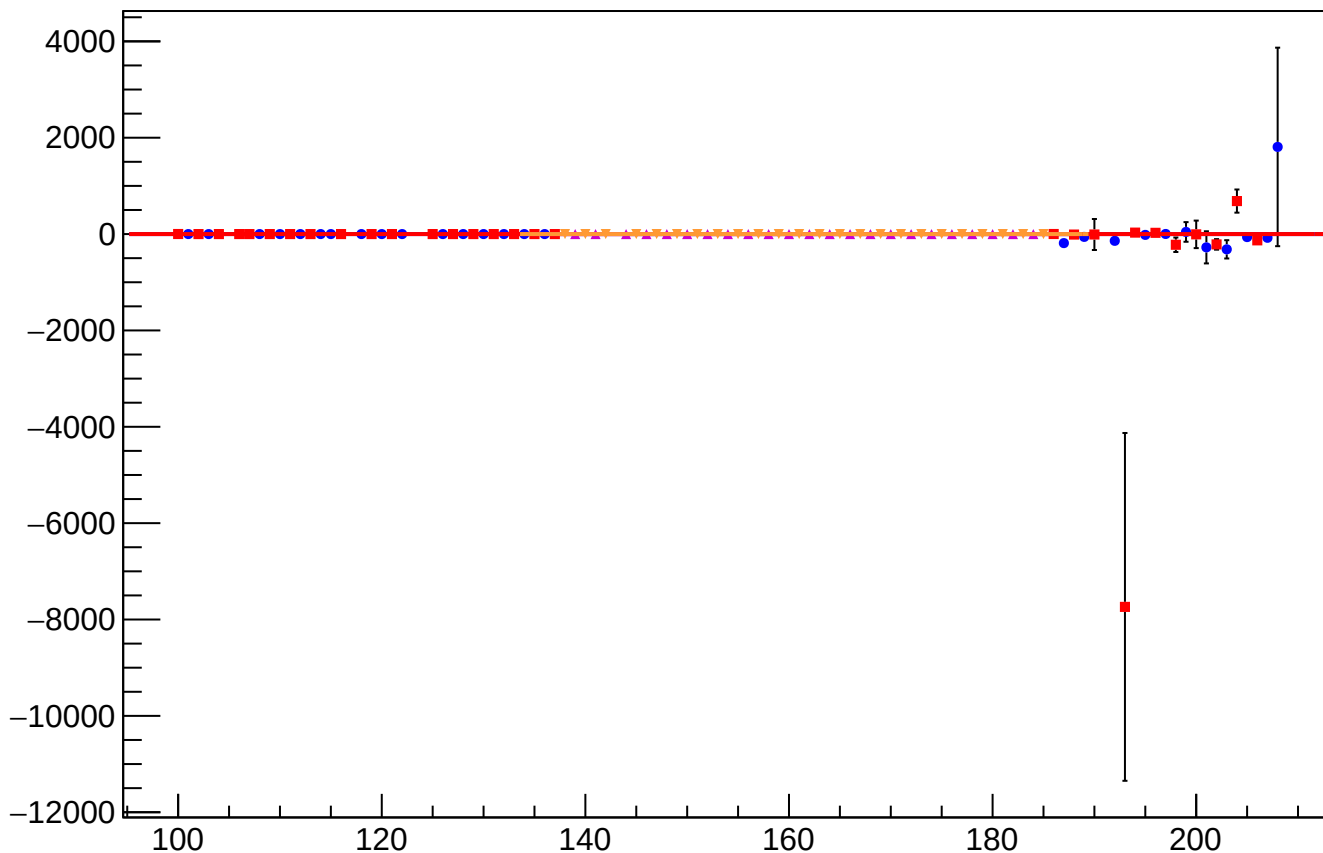
Right: 0.023+/-0.031 χ^2/NDF : 60.9/55

In: -0.005+/-0.017 χ^2/NDF : 67.3/49

Out: 0.035+/-0.017 χ^2/NDF : 62.9/52

All: 0.015+/-0.012 χ^2/NDF : 133.0/102

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 25.5/26

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 30.7/28

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

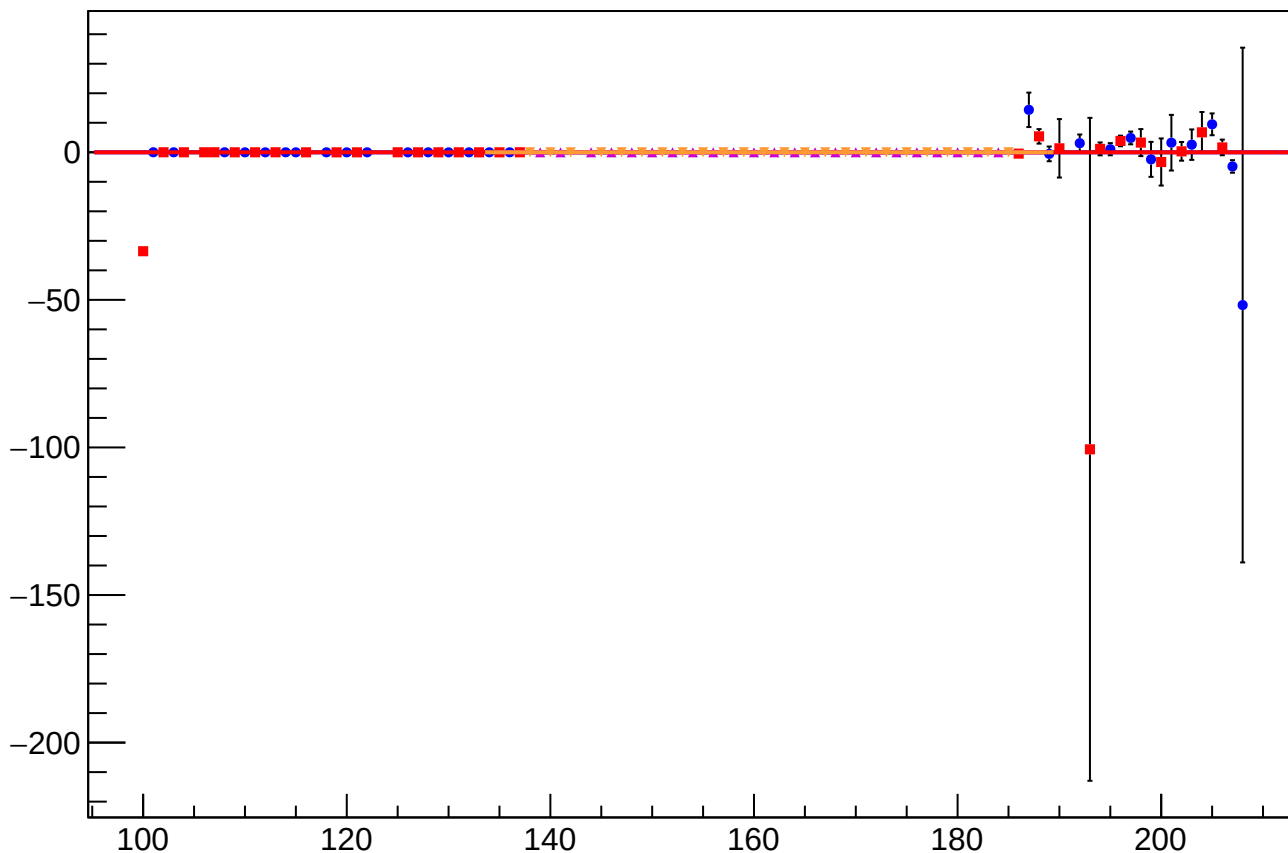
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 62.2/55

In: 0.053 $\pm$ 0.014 χ^2 /NDF:74.1/49

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:58.8/52

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 136.4/102

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 46.6/26

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26521.6/28

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

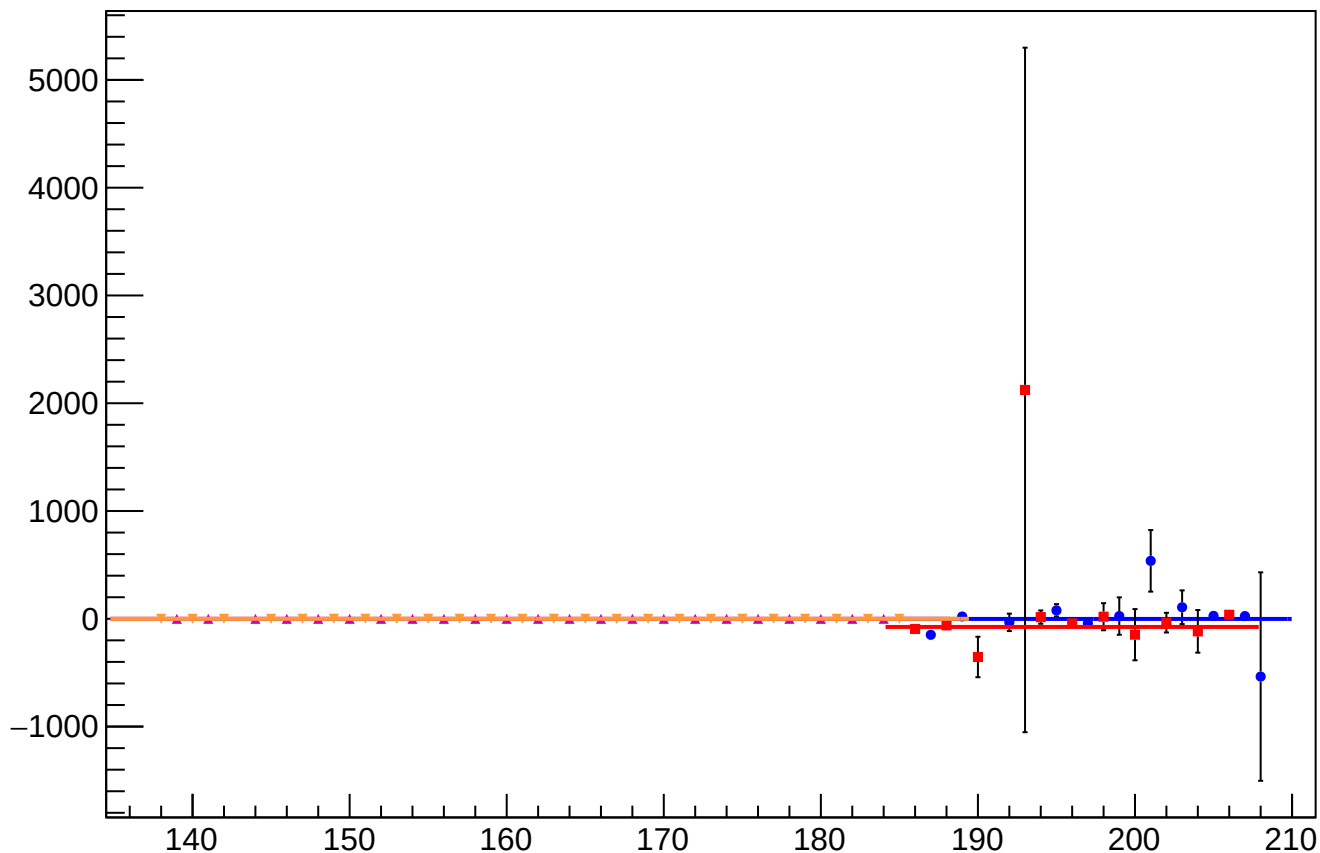
Right: -0.006 ± 0.001 χ^2/NDF : 26568.3/55

In: -0.001 ± 0.001 χ^2/NDF : 80.6/49

Out: -0.001 ± 0.001 χ^2/NDF : 26560.3/52

All: -0.001 ± 0.000 χ^2/NDF : 26640.9/102

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.222 ± 15.210 $\chi^2/\text{NDF}: 20.2/10$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.556 ± 9.679 $\chi^2/\text{NDF}: 15.3/10$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

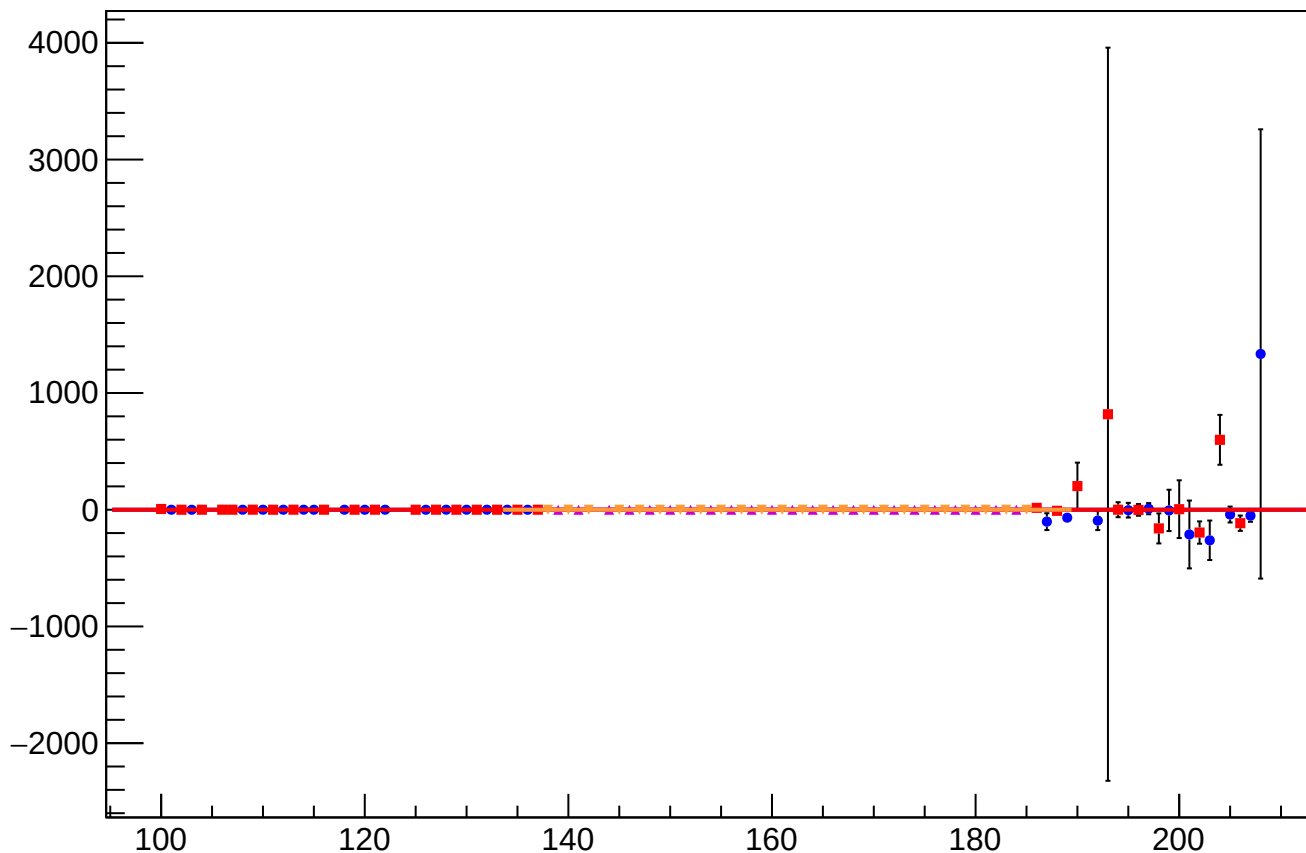
Right: -54.132 ± 8.166 $\chi^2/\text{NDF}: 52.5/21$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 55.3/33$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 113.5/34$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 171.7/68$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 37.7/26

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 47.7/28

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

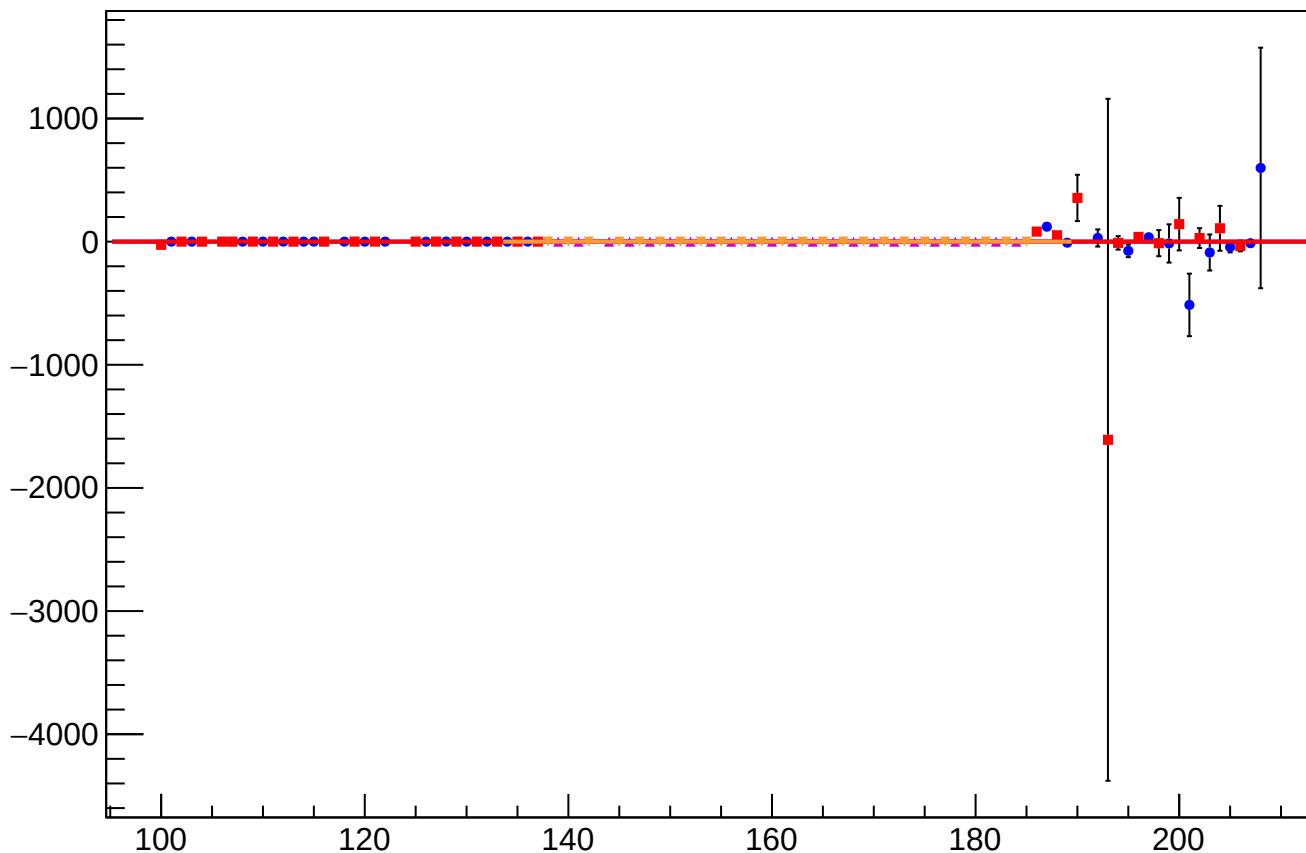
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 86.2/55

In: 0.006 $\pm$ 0.012 χ^2 /NDF:87.3/49

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:80.1/52

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 167.5/102

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.6/26

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.6/28

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

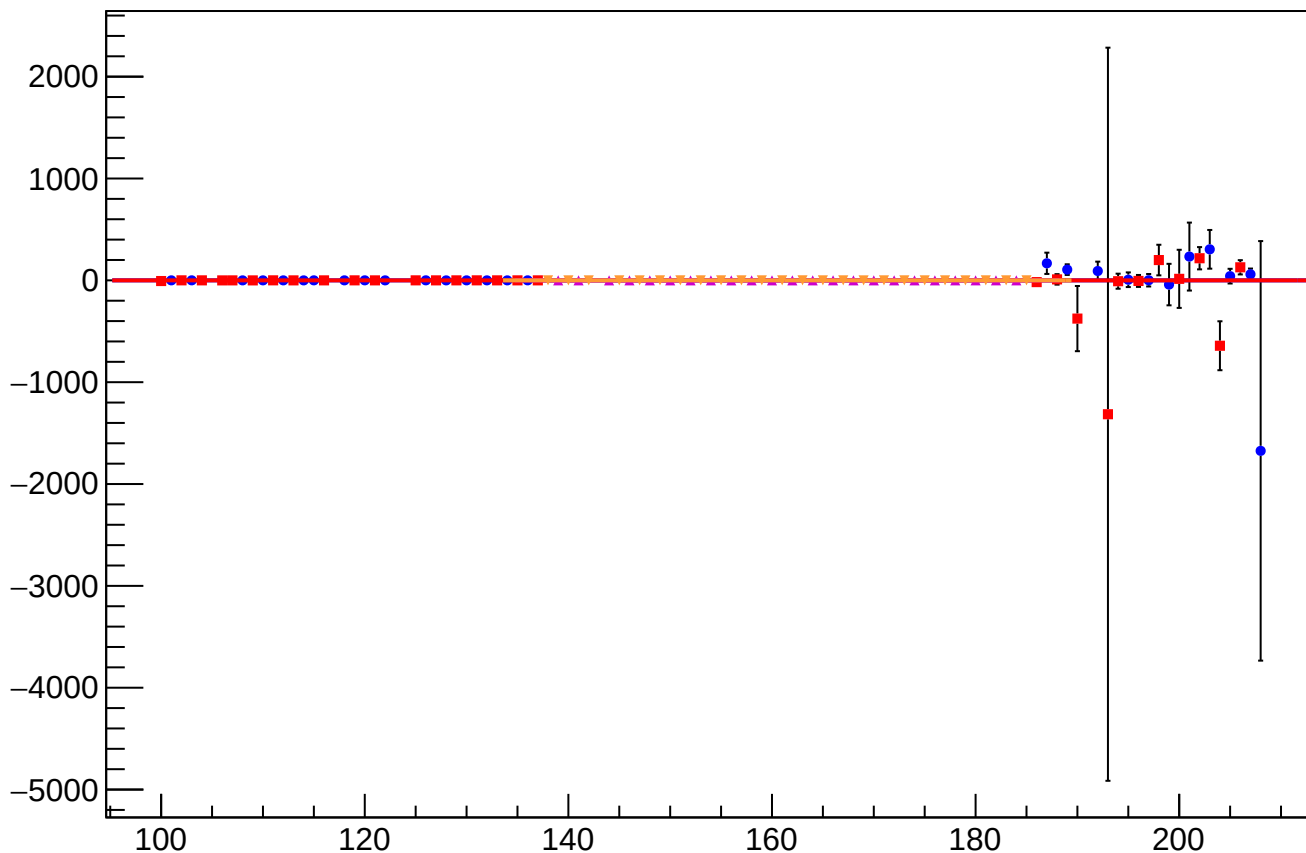
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 159.6/55

In: 0.040 $\pm$ 0.017 χ^2 /NDF:95.0/49

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:153.5/52

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 249.9/102

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 37.5/26

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 44.6/28

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

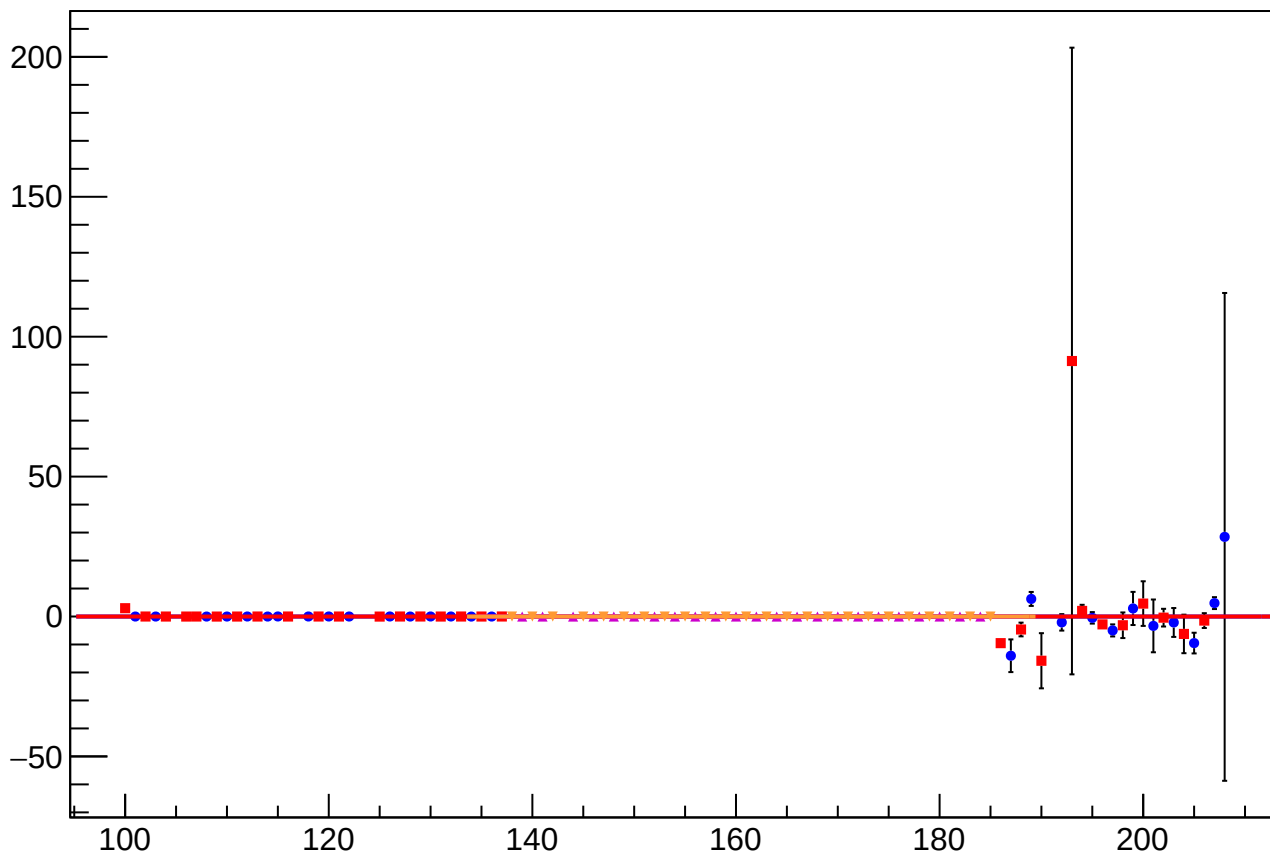
Right: -0.027 ± 0.020 χ^2/NDF : 83.0/55

In: 0.002 ± 0.014 χ^2/NDF : 87.9/49

Out: 0.005 ± 0.014 χ^2/NDF : 82.2/52

All: 0.004 ± 0.010 χ^2/NDF : 170.1/102

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 57.7/26

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 214.9/28

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

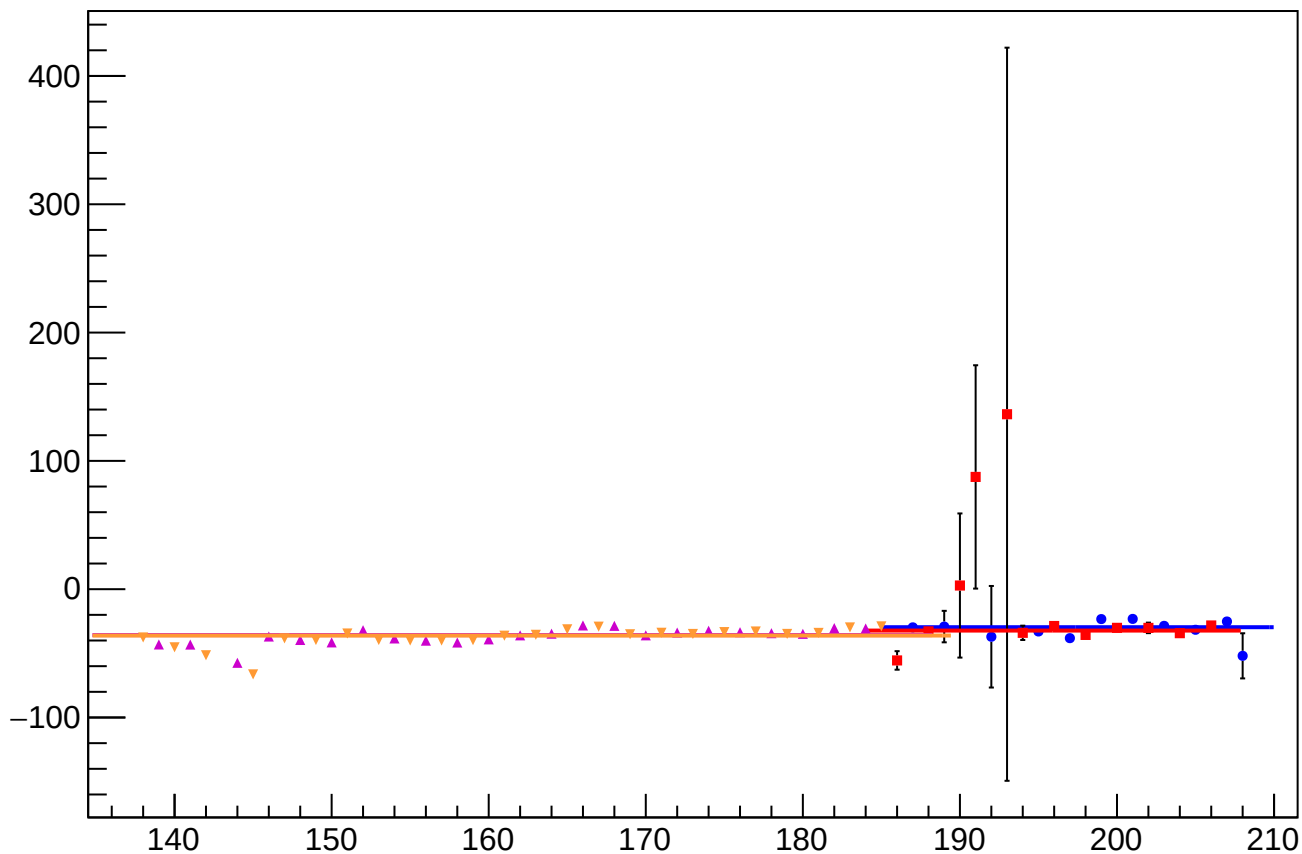
Right: -0.006 ± 0.001 χ^2/NDF : 272.6/55

In: -0.008 ± 0.001 χ^2/NDF : 97.5/49

Out: -0.008 ± 0.001 χ^2/NDF : 248.9/52

All: -0.008 ± 0.000 χ^2/NDF : 346.6/102

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.629 ± 0.858 χ^2/NDF : 25.7/10

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.254 ± 0.808 χ^2/NDF : 20.7/11

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

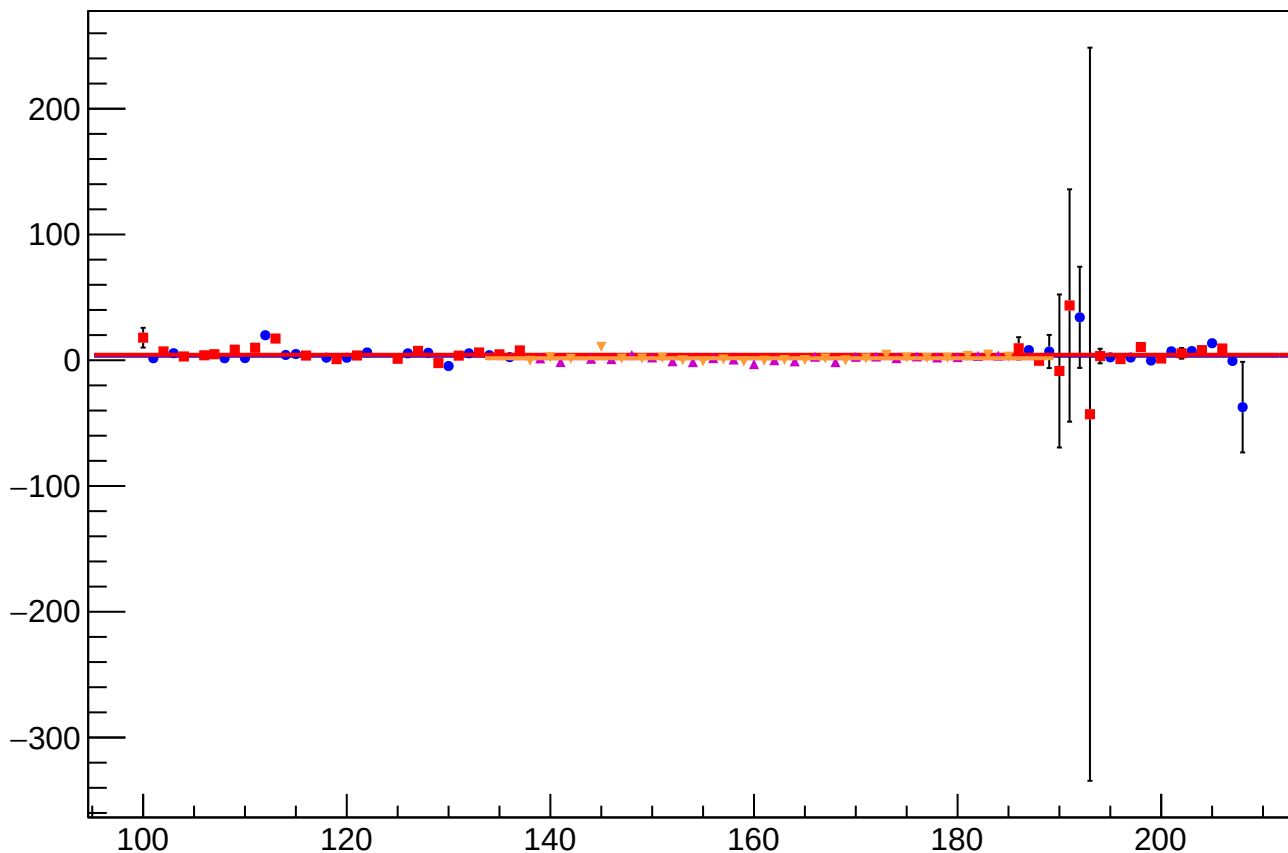
Right: -31.020 ± 0.588 χ^2/NDF : 51.4/22

In: -35.488 ± 0.187 χ^2/NDF : 928.7/33

Out: -35.914 ± 0.187 χ^2/NDF : 1157.3/35

All: -35.701 ± 0.132 χ^2/NDF : 2088.6/69

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.600 $\pm$ 0.217 χ^2 /NDF: 458.2/26

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.349 $\pm$ 0.221 χ^2 /NDF: 369.0/29

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

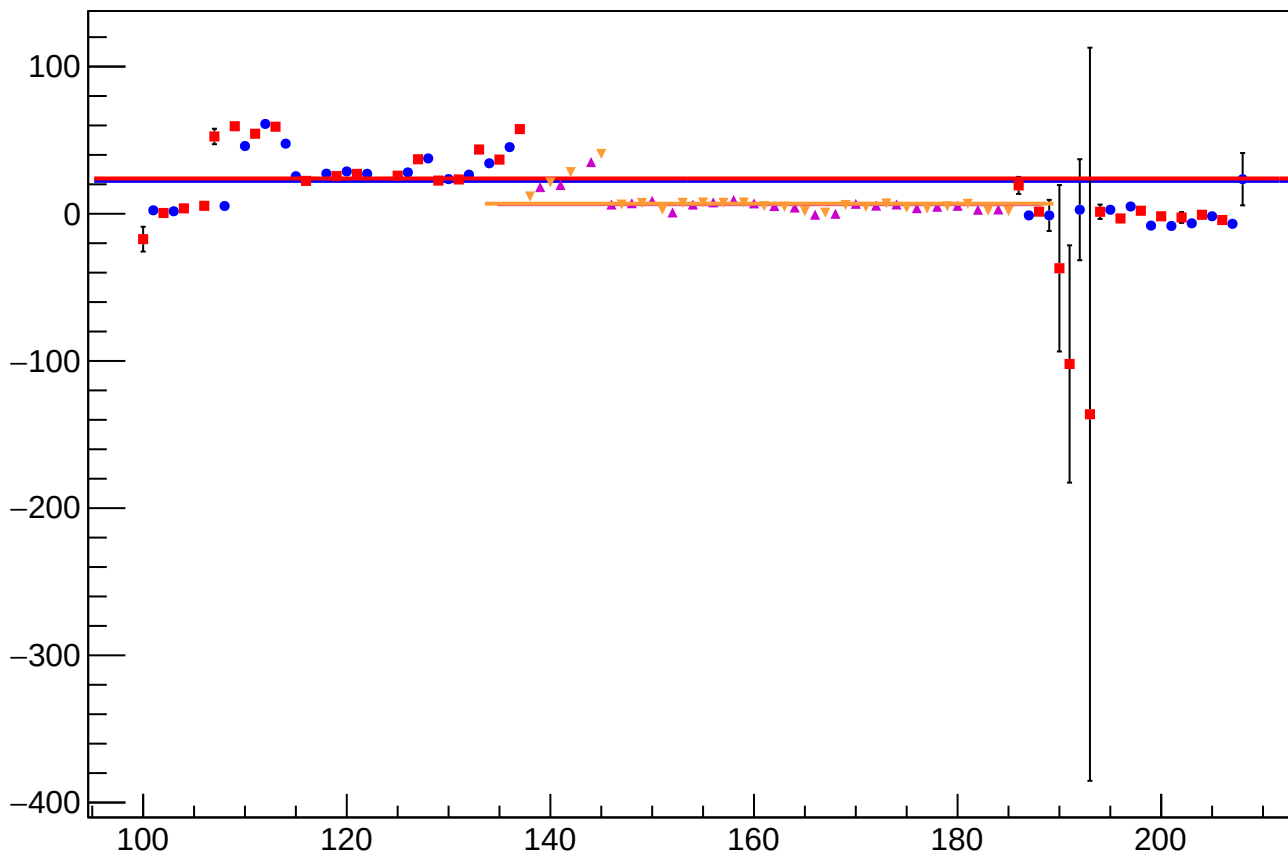
Right: 3.967 $\pm$ 0.155 χ^2 /NDF: 833.0/56

In: 2.273 $\pm$ 0.123 χ^2 /NDF:676.7/49

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:640.0/53

All: 2.374 $\pm$ 0.087 χ^2 /NDF: 1318.1/103

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.348 $\pm$ 0.370 χ^2 /NDF: 2806.1/26

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.981 $\pm$ 0.362 χ^2 /NDF: 3283.7/29

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

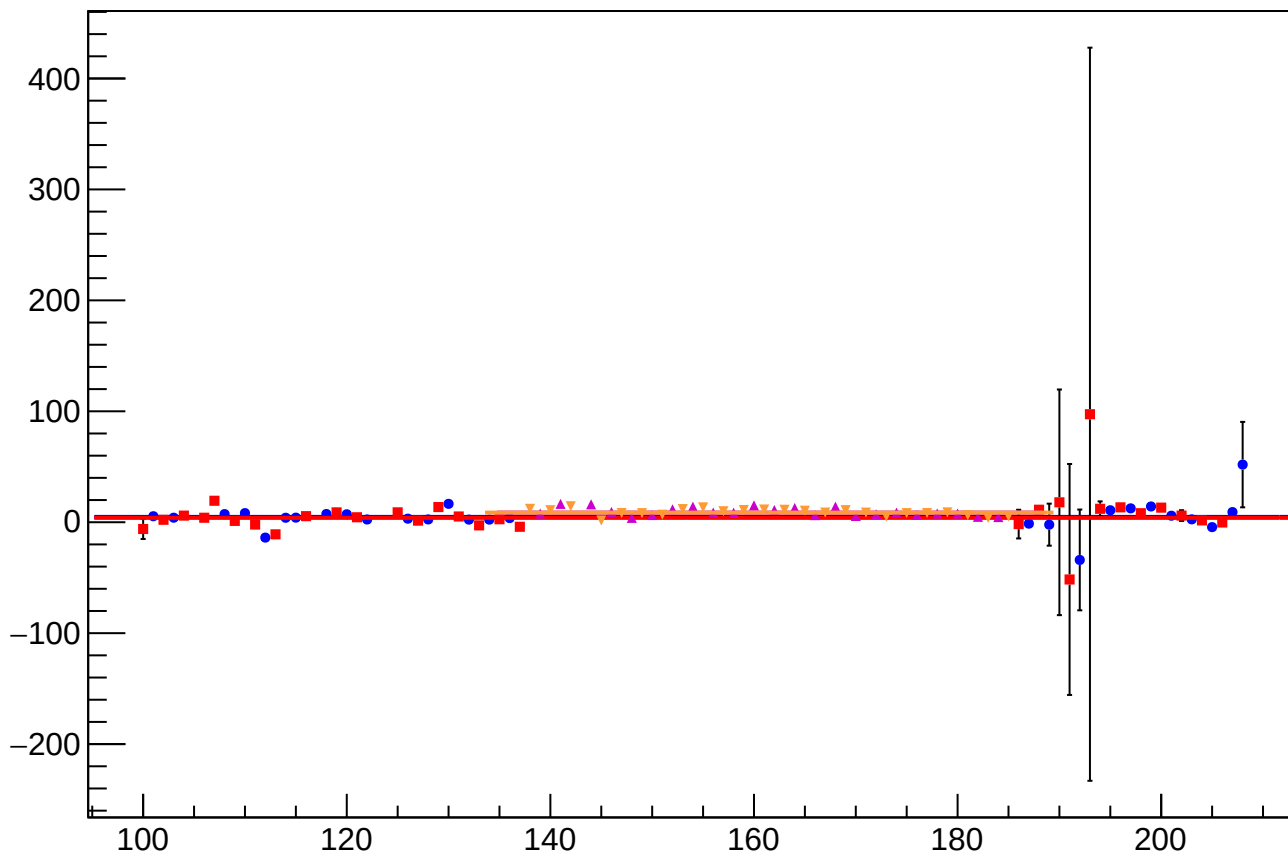
Right: 23.183 $\pm$ 0.259 χ^2 /NDF: 6099.7/56

In: 9.847 $\pm$ 0.169 χ^2 /NDF:5275.2/49

Out: 10.607 $\pm$ 0.169 χ^2 /NDF:6327.5/53

All: 10.227 $\pm$ 0.120 χ^2 /NDF: 11612.9/103

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.807 $\pm$ 0.250 χ^2 /NDF: 572.7/26

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.937 $\pm$ 0.254 χ^2 /NDF: 589.1/29

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

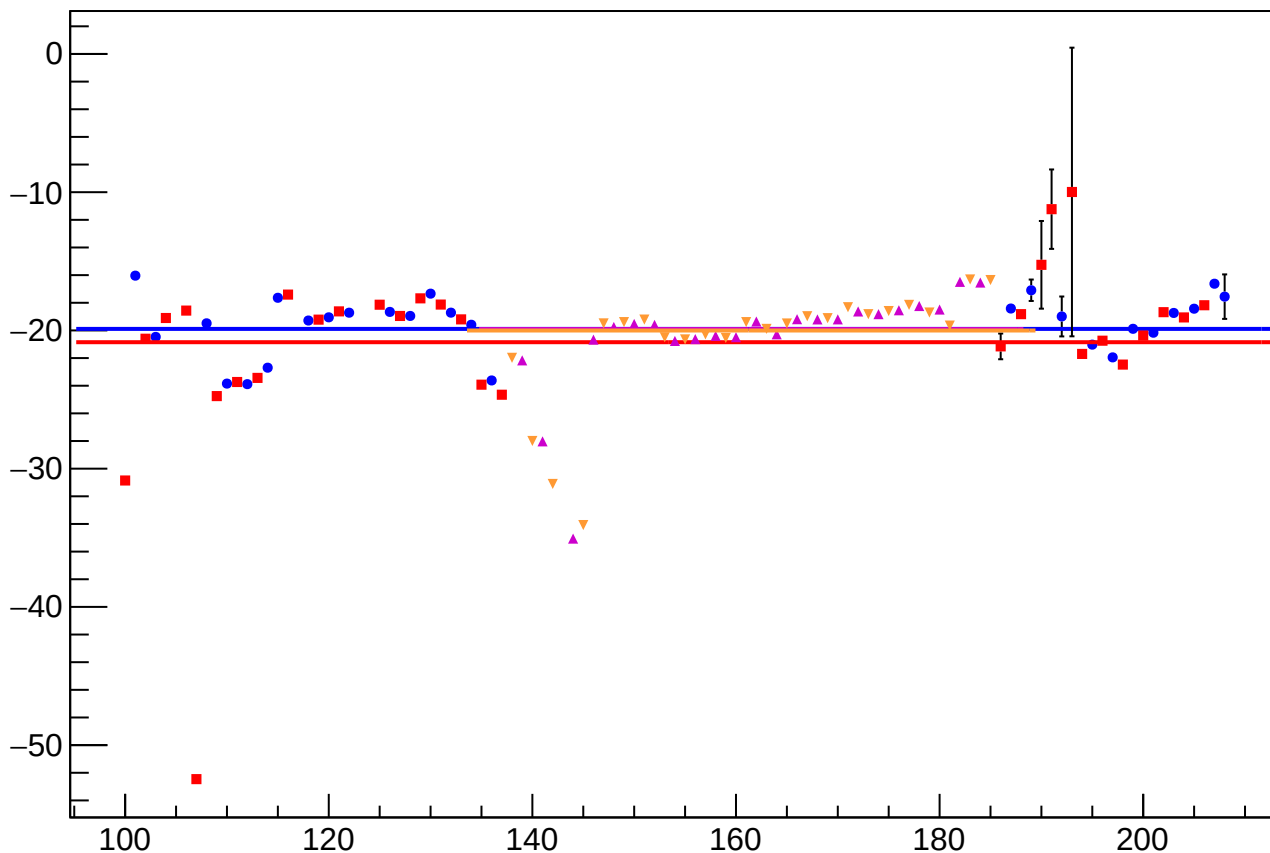
Right: 4.380 $\pm$ 0.178 χ^2 /NDF: 1167.7/56

In: 7.446 $\pm$ 0.141 χ^2 /NDF:1172.4/49

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1072.8/53

All: 7.342 $\pm$ 0.099 χ^2 /NDF: 2246.3/103

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 $\pm$ 0.015 χ^2 /NDF: 27143.1/26

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF: 171763.9/23

Right Out: -20.852 $\pm$ 0.015 χ^2 /NDF: 95238.2/29

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF: 144191.9/22

Left: -19.951 $\pm$ 0.006 χ^2 /NDF: 316049.4/46

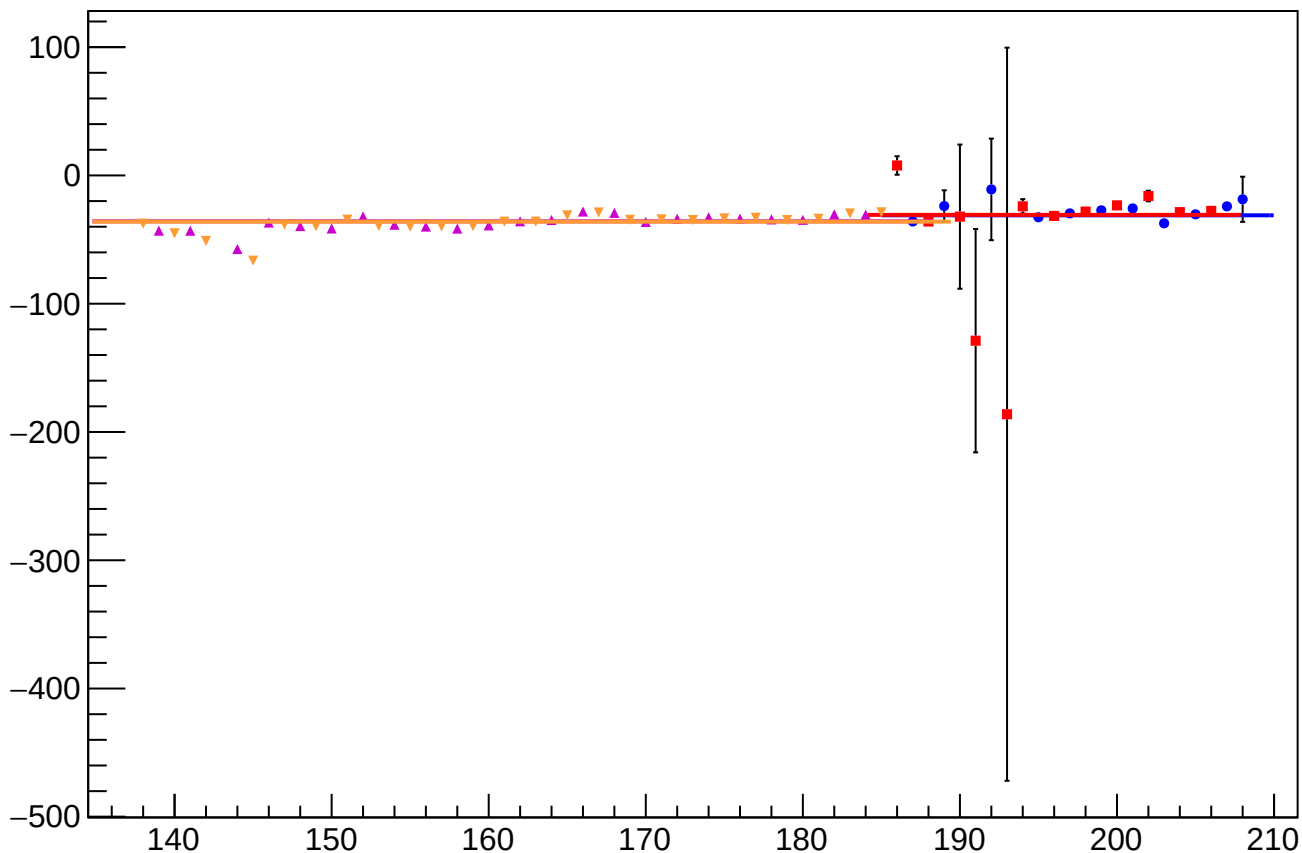
Right: -20.368 $\pm$ 0.011 χ^2 /NDF: 124470.7/56

In: -19.896 $\pm$ 0.007 χ^2 /NDF: 171335.3/49

Out: -20.190 $\pm$ 0.007 χ^2 /NDF: 269511.5/53

All: -20.042 $\pm$ 0.005 χ^2 /NDF: 441741.5/103

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.090 ± 0.861 $\chi^2/\text{NDF}: 28.0/10$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -30.756 ± 0.811 $\chi^2/\text{NDF}: 71.9/11$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

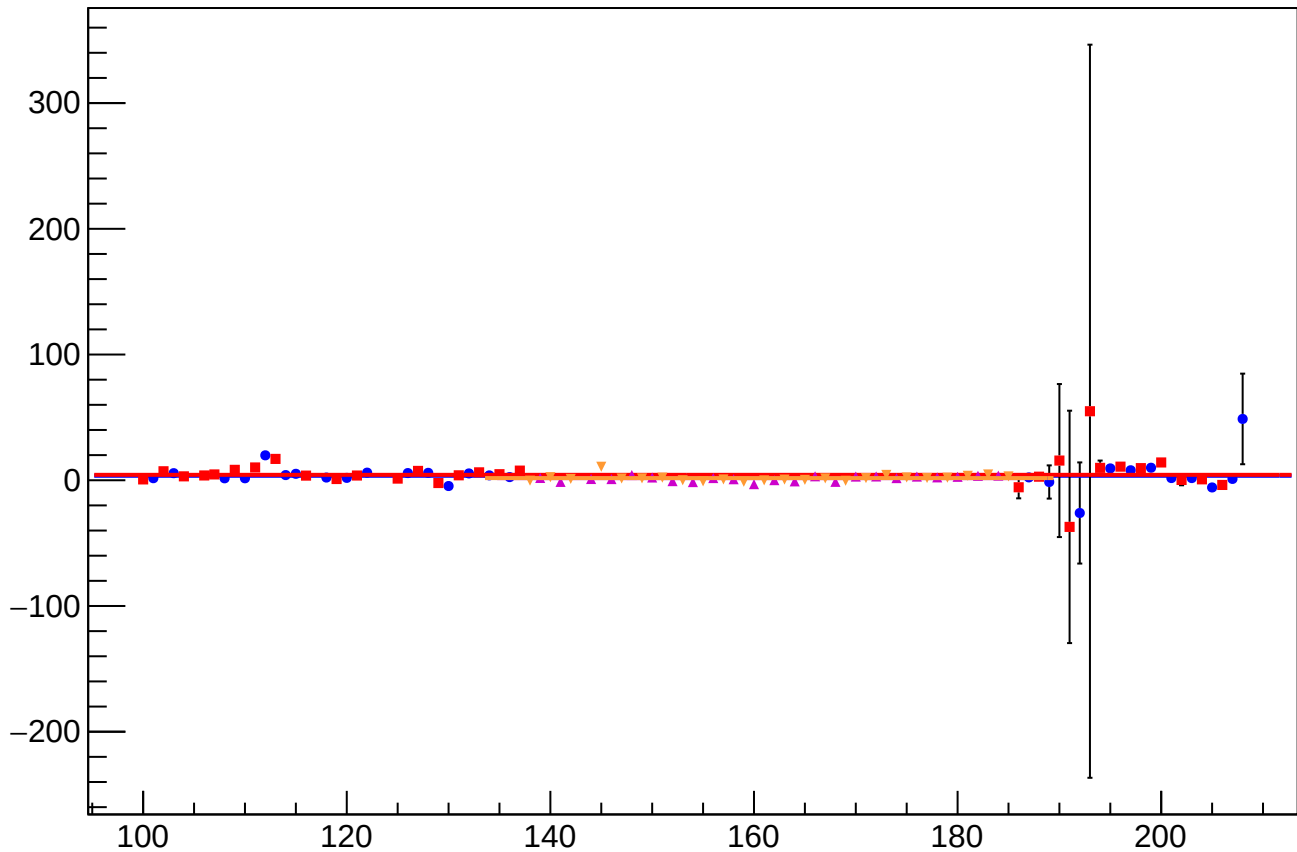
Right: -30.913 ± 0.590 $\chi^2/\text{NDF}: 100.0/22$

In: -35.546 ± 0.187 $\chi^2/\text{NDF}: 898.7/33$

Out: -35.751 ± 0.187 $\chi^2/\text{NDF}: 1233.3/35$

All: -35.649 ± 0.132 $\chi^2/\text{NDF}: 2132.6/69$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.570 $\pm$ 0.217 χ^2 /NDF: 457.6/26

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.321 $\pm$ 0.217 χ^2 /NDF: 378.2/29

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

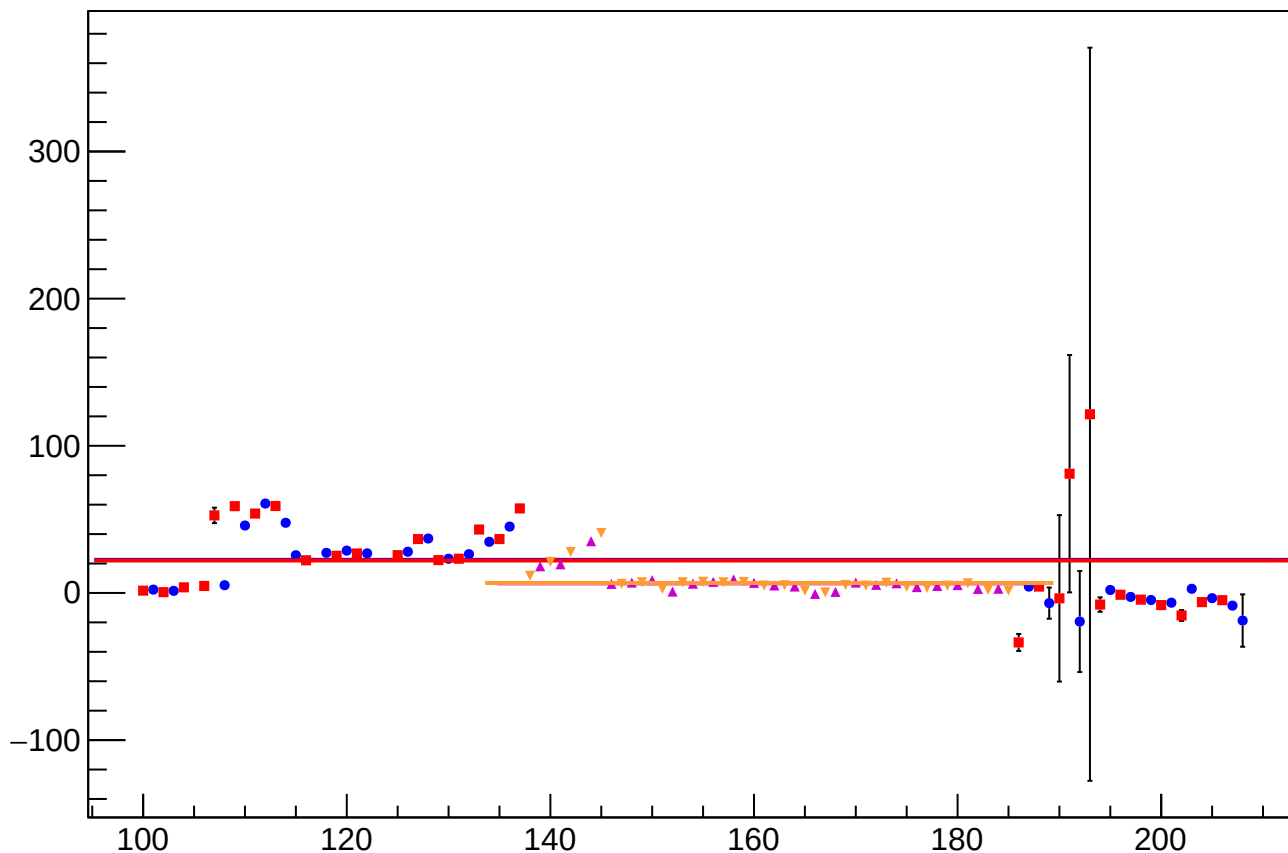
Right: 3.945 $\pm$ 0.153 χ^2 /NDF: 841.8/56

In: 2.306 $\pm$ 0.123 χ^2 /NDF:670.8/49

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:644.3/53

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1317.0/103

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.493+/-0.370 χ^2/NDF : 2699.6/26

Left Out: 6.779+/-0.191 χ^2/NDF :1297.7/23

Right Out: 22.063+/-0.349 χ^2/NDF : 3659.2/29

Left In: 6.532+/-0.190 χ^2/NDF :1018.2/22

Left: 6.655+/-0.135 χ^2/NDF : 2316.7/46

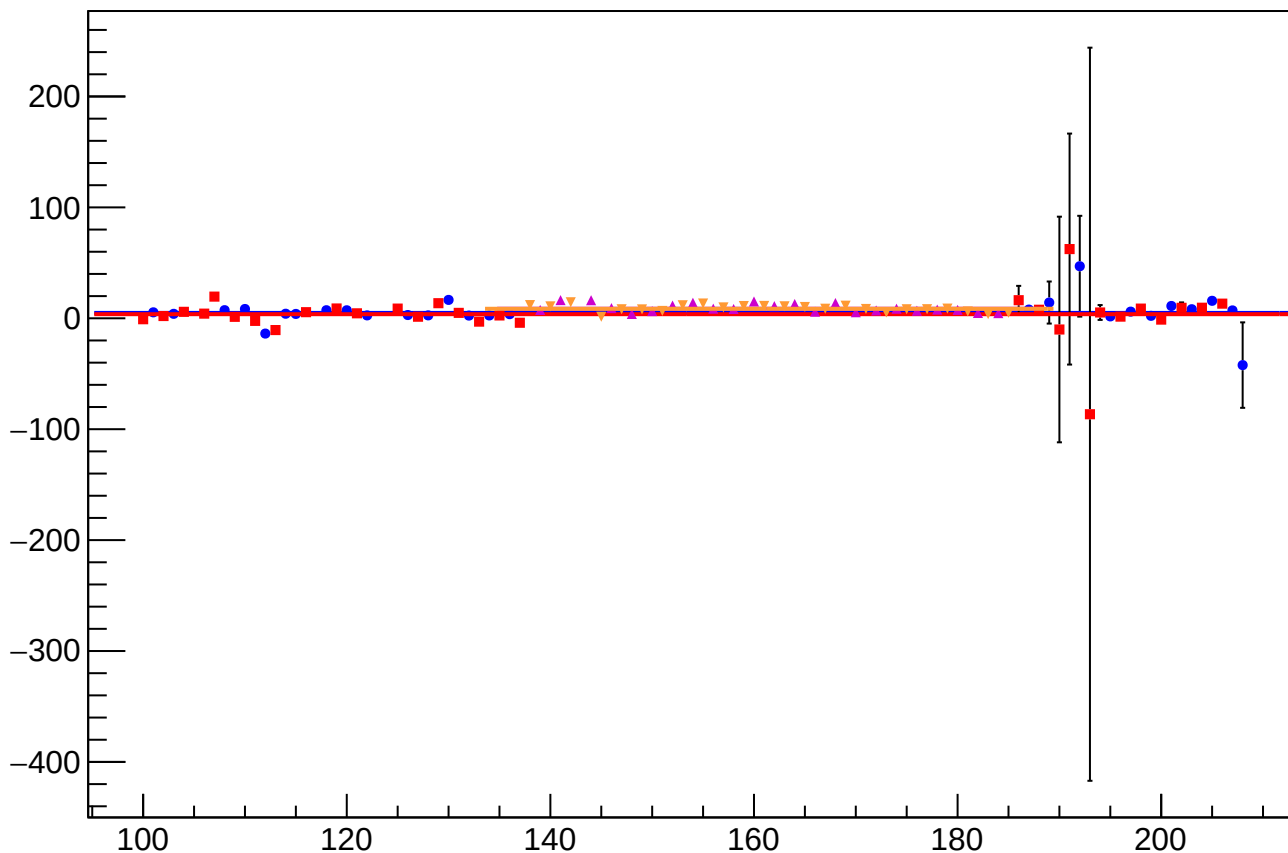
Right: 22.265+/-0.254 χ^2/NDF : 6359.5/56

In: 9.870+/-0.169 χ^2/NDF :5189.2/49

Out: 10.309+/-0.168 χ^2/NDF :6431.2/53

All: 10.091+/-0.119 χ^2/NDF : 11623.8/103

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.845 $\pm$ 0.250 χ^2 /NDF: 560.4/26

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.697 $\pm$ 0.250 χ^2 /NDF: 588.9/29

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

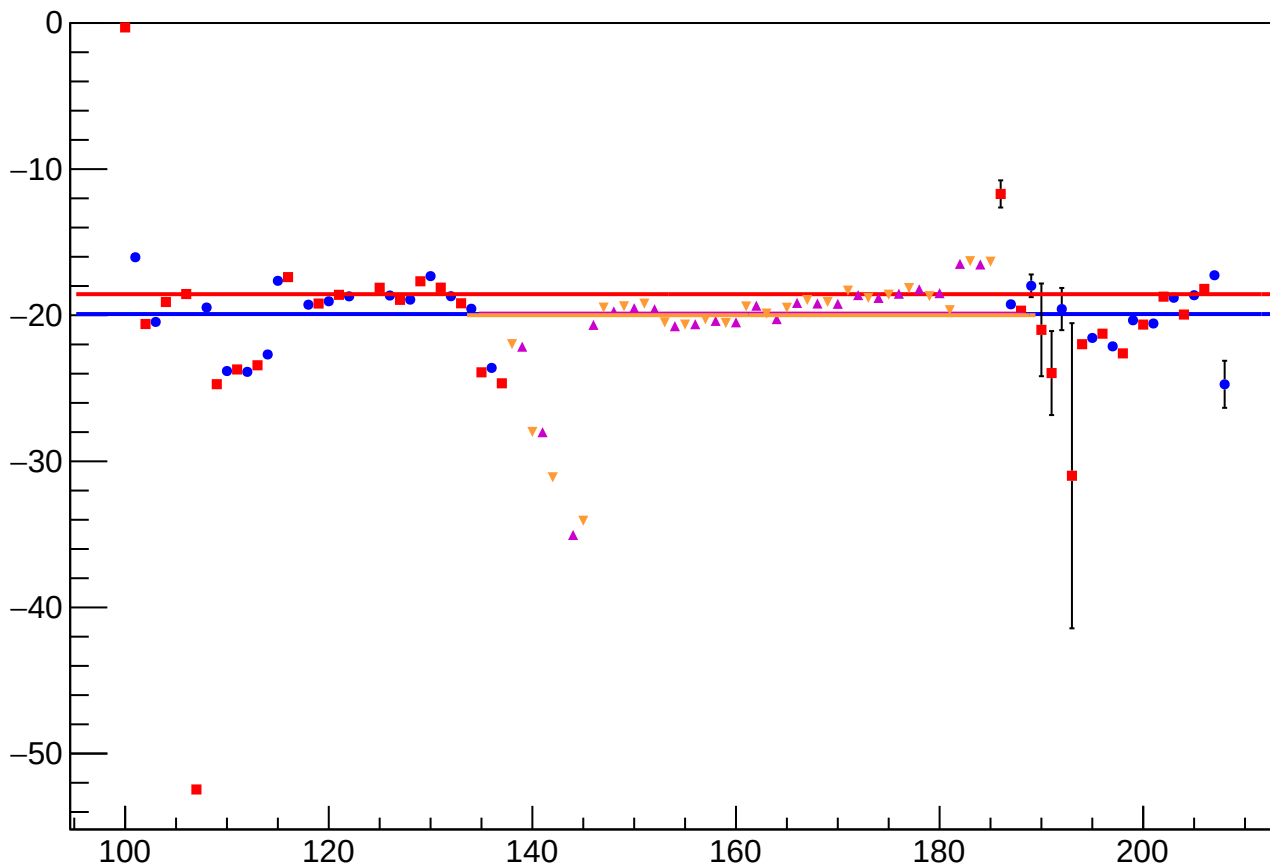
Right: 4.272 $\pm$ 0.177 χ^2 /NDF: 1159.9/56

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1155.3/49

Out: 7.055 $\pm$ 0.140 χ^2 /NDF:1096.7/53

All: 7.227 $\pm$ 0.099 χ^2 /NDF: 2255.0/103

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.2/26$

Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$

Right Out: -18.559 ± 0.014 $\chi^2/\text{NDF}: 303724.1/29$

Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$

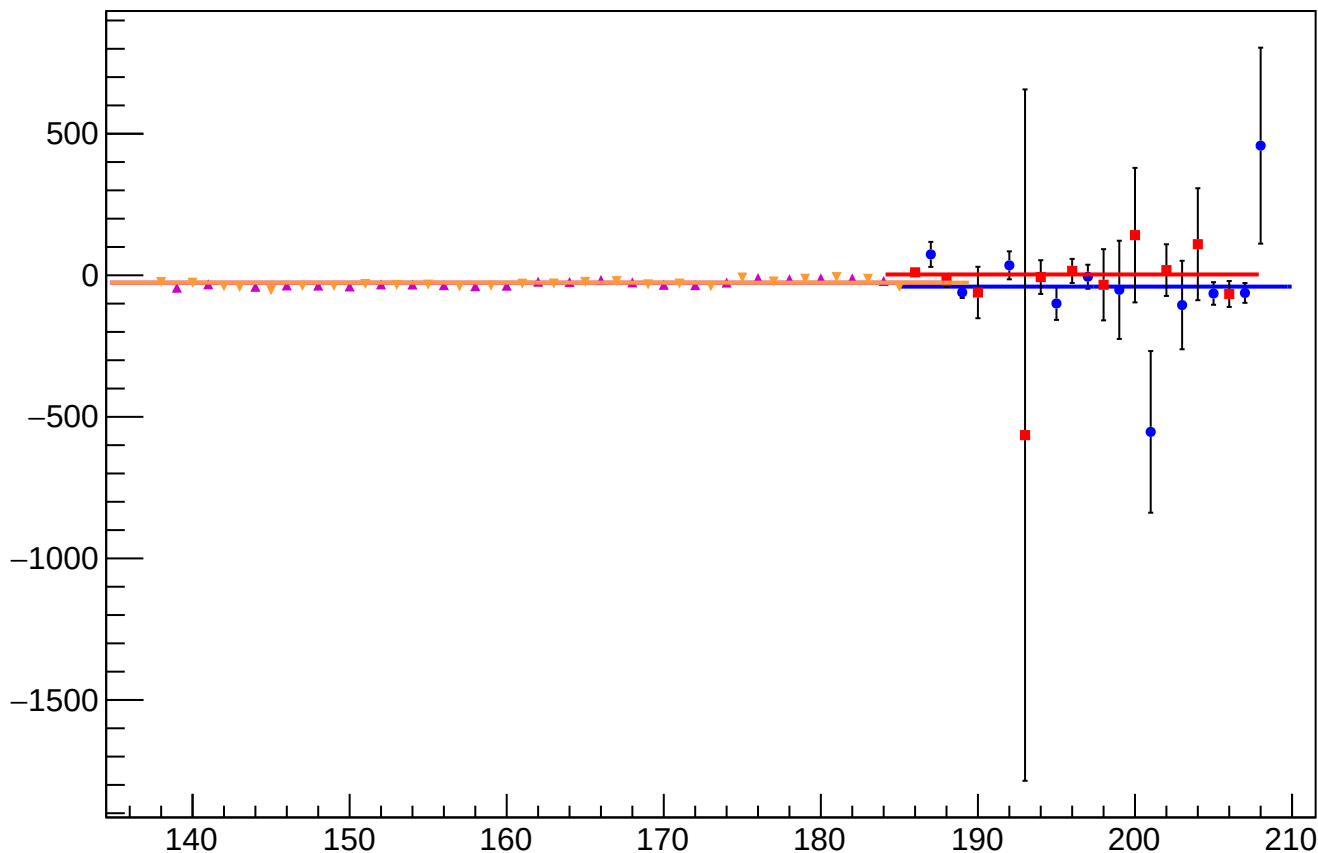
Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335243.0/56$

In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.5/49$

Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483602.2/53$

All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655371.5/103$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.998 ± 13.050 χ^2/NDF : 18.0/10

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 2.960 ± 8.120 χ^2/NDF : 5.6/10

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

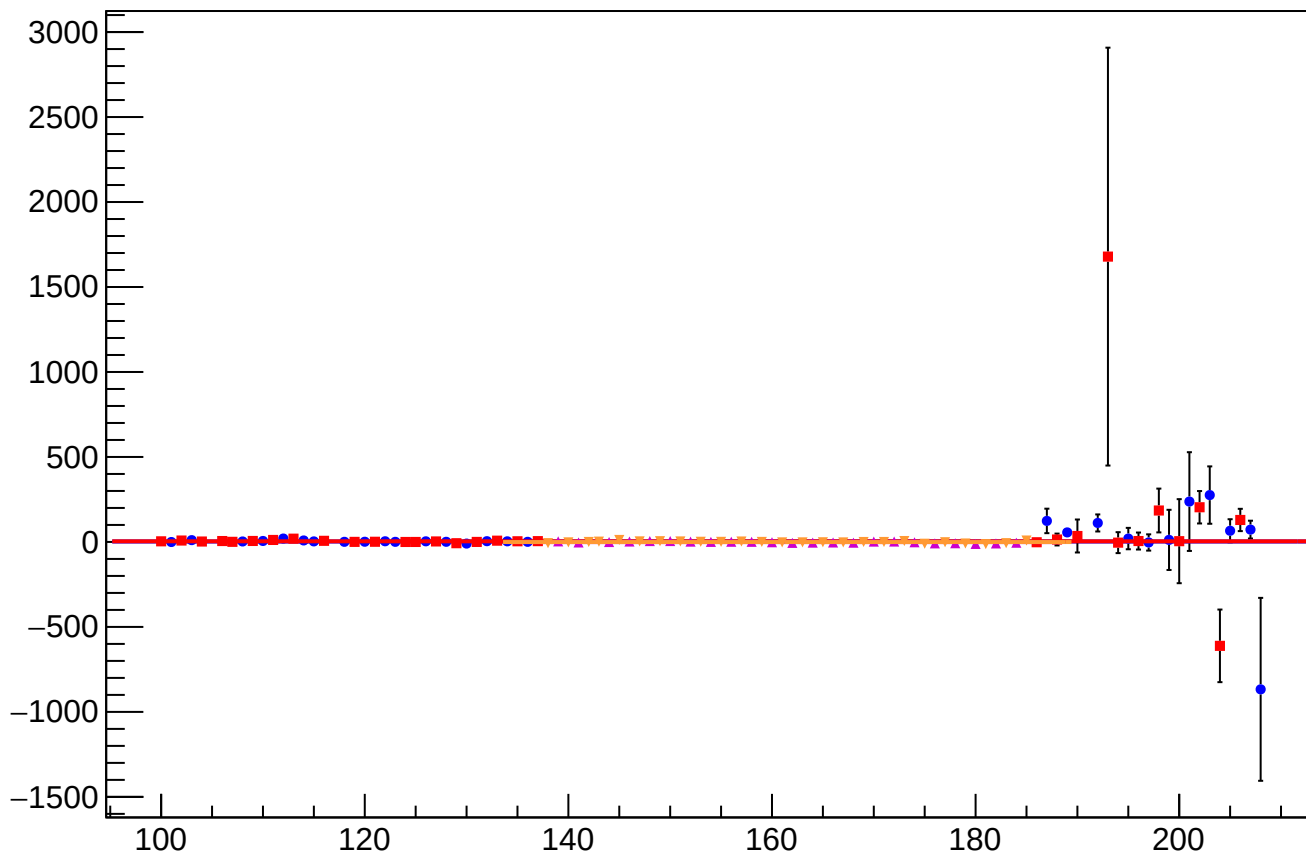
Right: -9.030 ± 6.895 χ^2/NDF : 31.4/21

In: -26.055 ± 0.195 χ^2/NDF : 3298.7/33

Out: -25.868 ± 0.192 χ^2/NDF : 4176.2/35

All: -25.960 ± 0.137 χ^2/NDF : 7475.3/69

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476+/-0.315 χ^2/NDF : 316.2/27

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.716+/-0.327 χ^2/NDF : 289.7/29

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

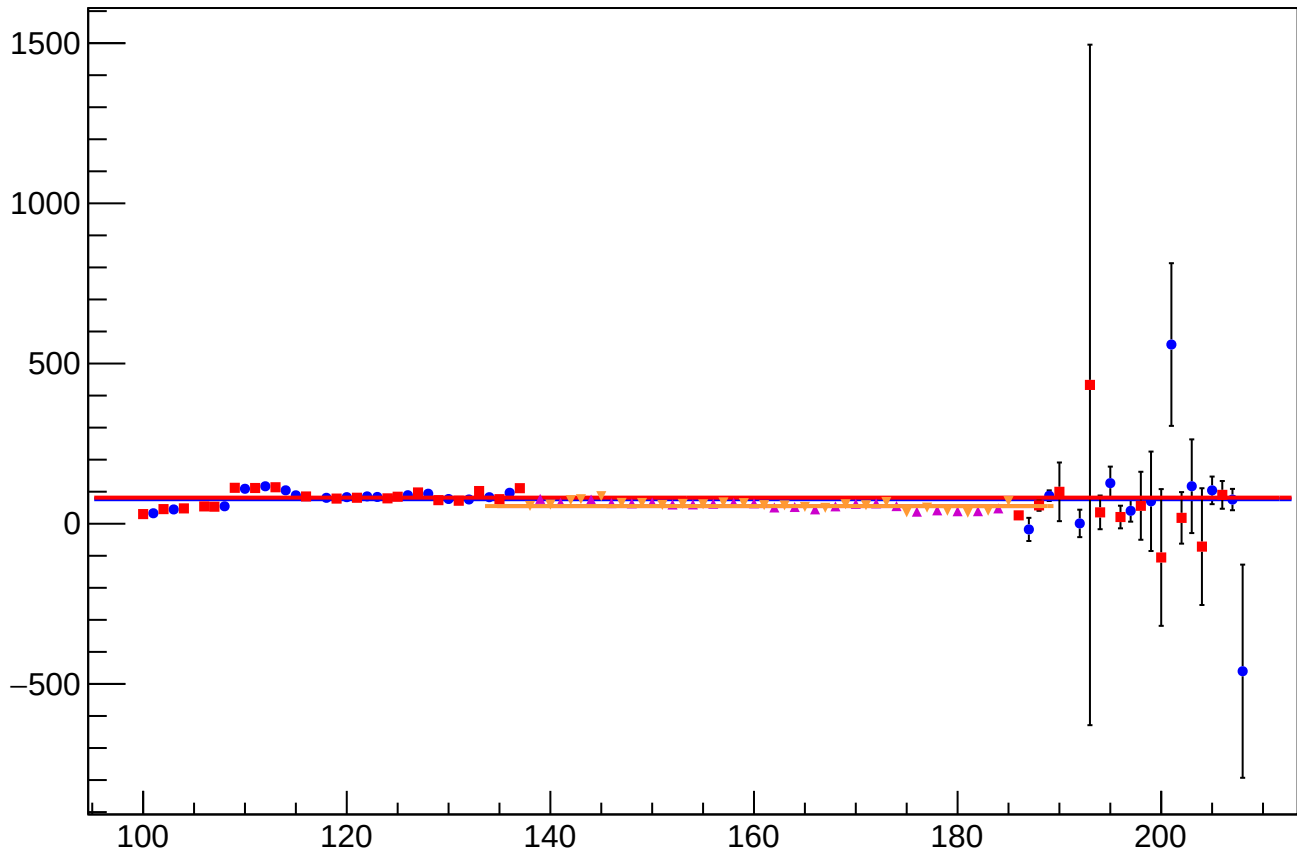
Right: 3.073+/-0.227 χ^2/NDF : 613.4/57

In: -0.242+/-0.136 χ^2/NDF : 1474.4/50

Out: 0.075+/-0.133 χ^2/NDF : 1759.7/54

All: -0.081+/-0.095 χ^2/NDF : 3236.9/105

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532 $\pm$ 0.576 χ^2 /NDF: 2271.9/27

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.490 $\pm$ 0.590 χ^2 /NDF: 1632.6/29

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

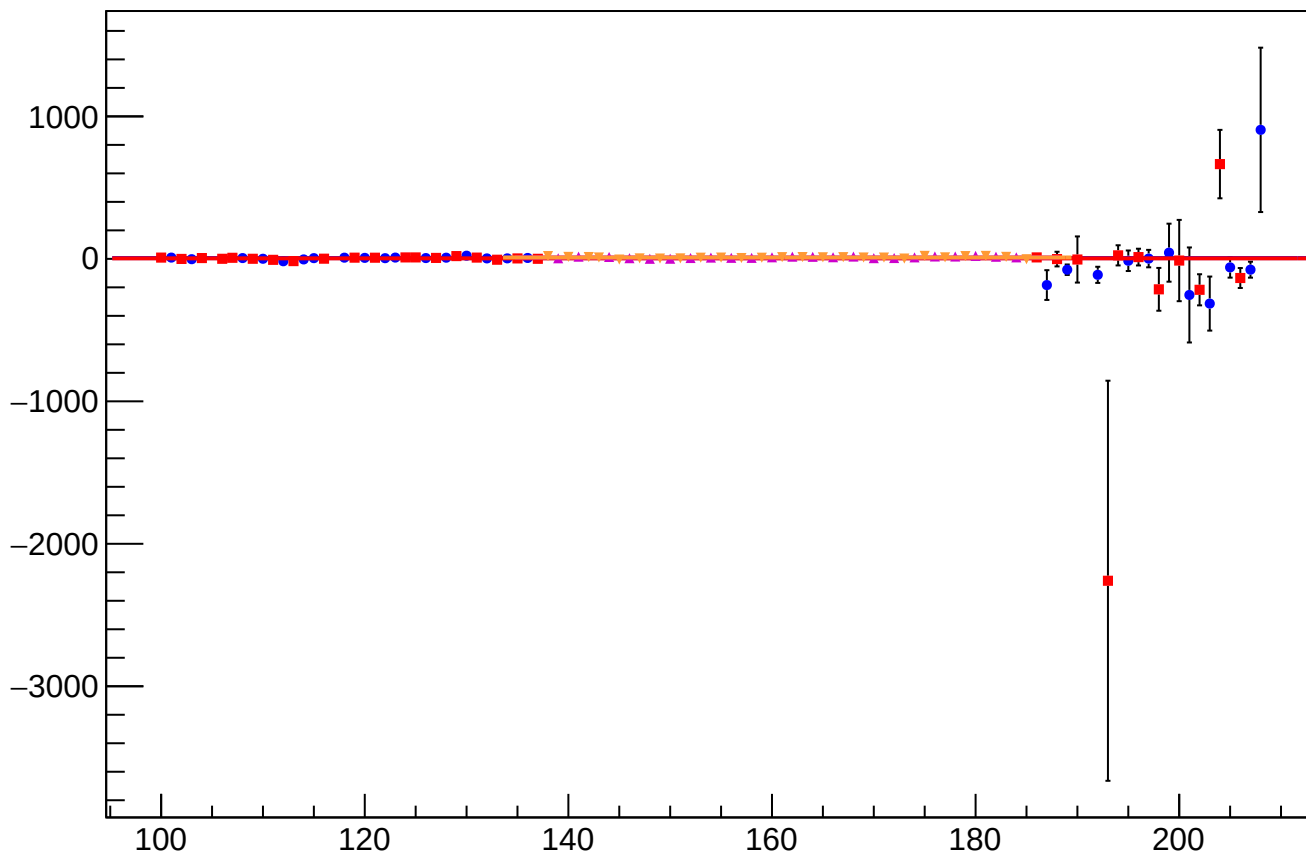
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3940.7/57

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7221.6/50

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.5/54

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15243.1/105

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.406 $\pm$ 0.361 χ^2 /NDF: 407.1/27

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.579 $\pm$ 0.375 χ^2 /NDF: 442.1/29

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

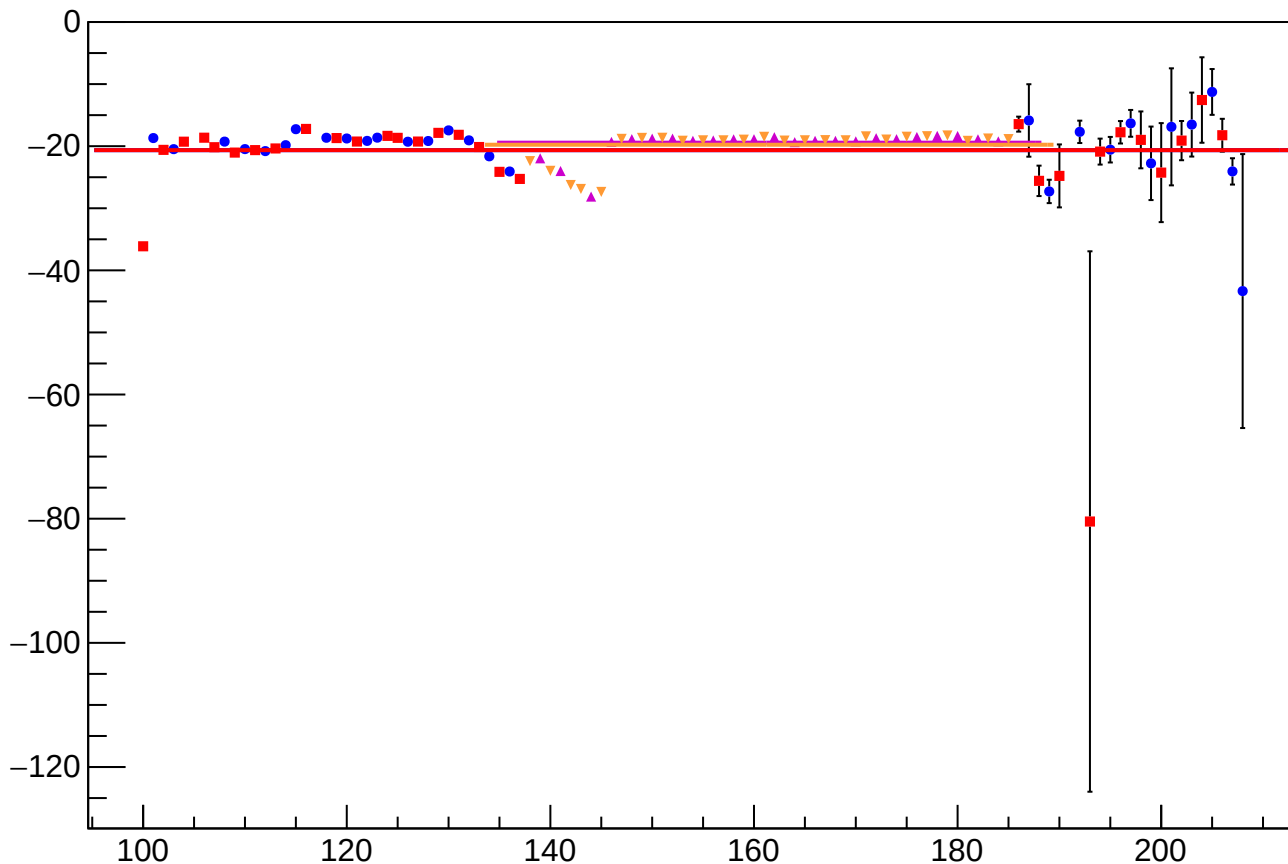
Right: 4.529 $\pm$ 0.260 χ^2 /NDF: 861.5/57

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1686.9/50

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2116.6/54

All: 8.850 $\pm$ 0.109 χ^2 /NDF: 3805.1/105

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12455.1/27

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13809.9/29

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

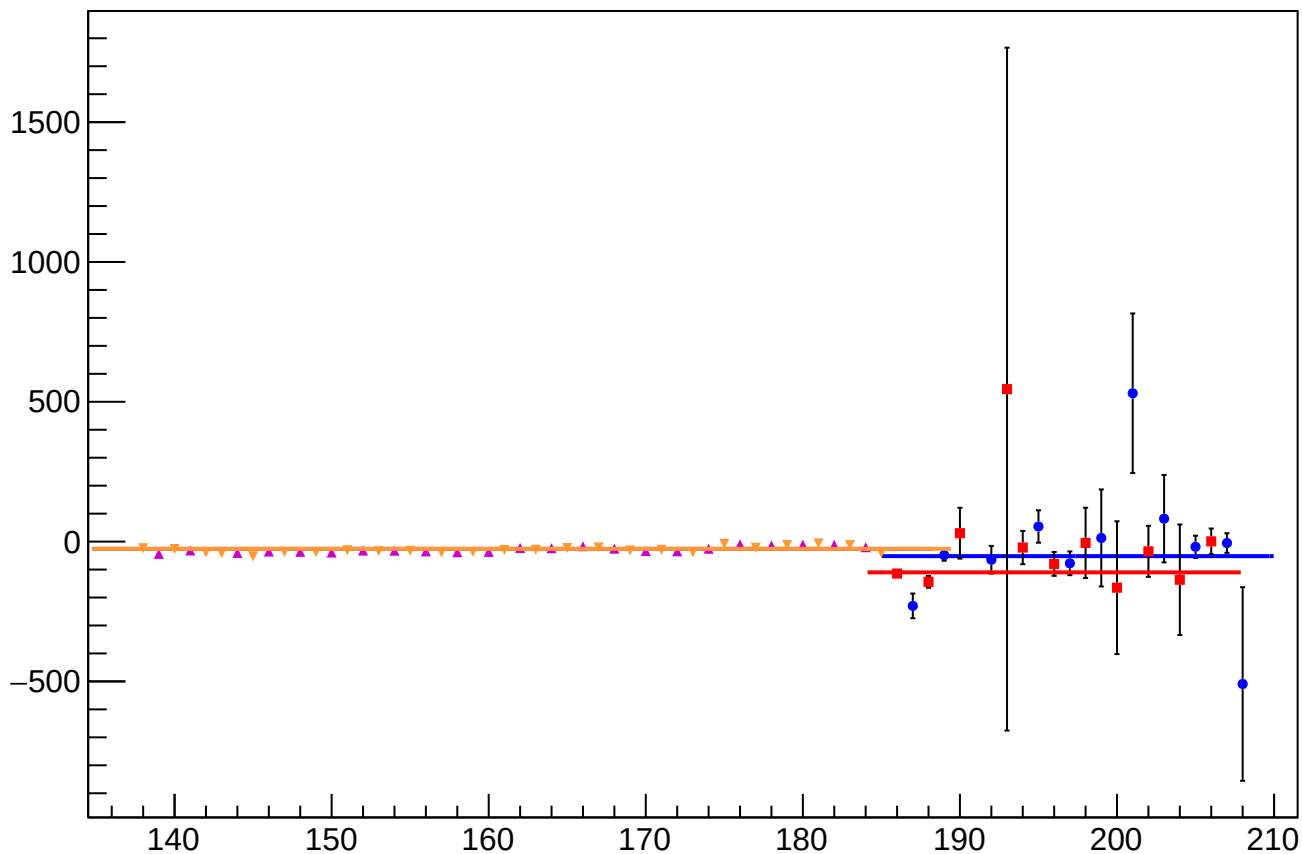
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26265.0/57

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68963.7/50

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107149.6/54

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176841.8/105

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -51.990 ± 13.060 $\chi^2/\text{NDF}: 29.3/10$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -110.029 ± 8.126 $\chi^2/\text{NDF}: 15.5/10$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

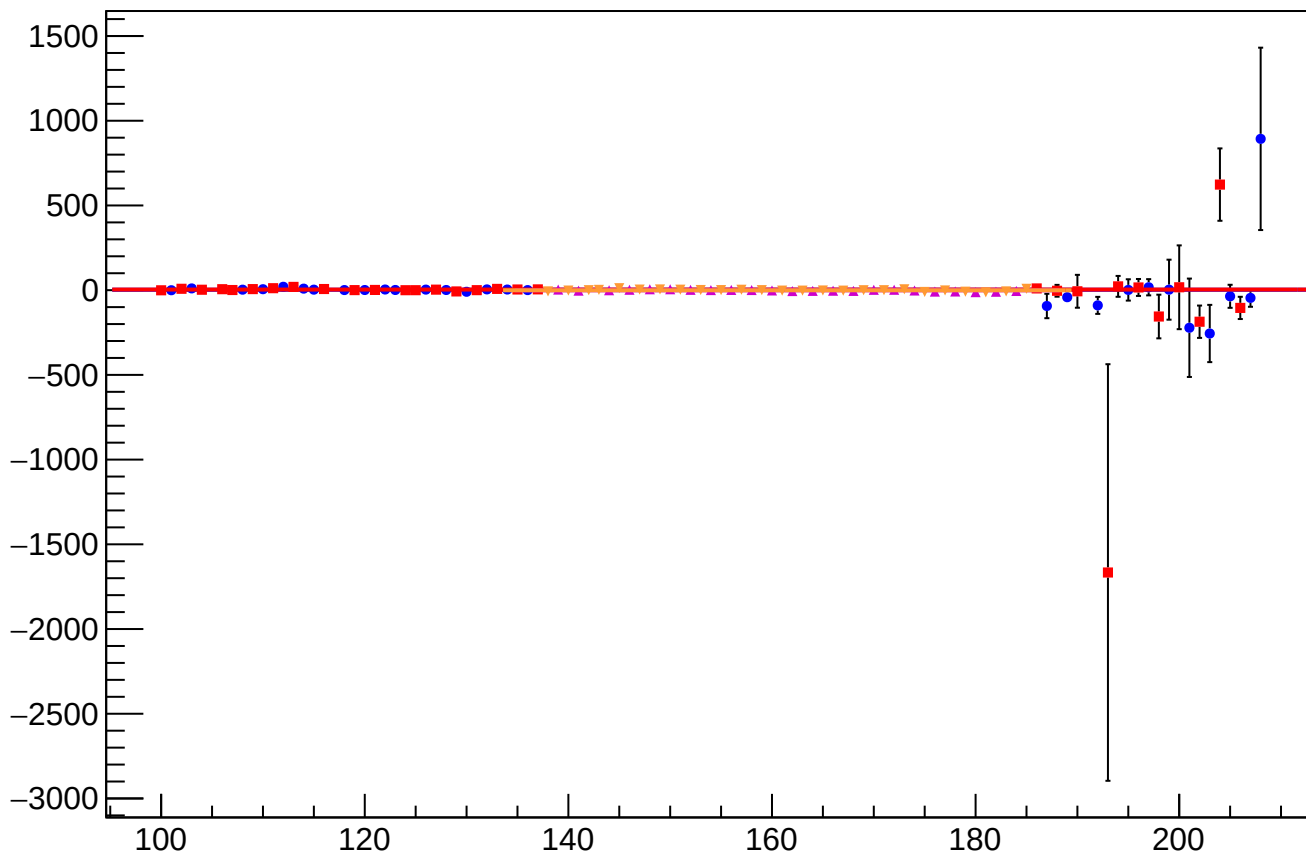
Right: -93.831 ± 6.899 $\chi^2/\text{NDF}: 59.1/21$

In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3280.0/33$

Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4250.2/35$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7530.3/69$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.438 ± 0.315 χ^2/NDF : 308.2/27

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593 ± 0.318 χ^2/NDF : 299.1/29

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

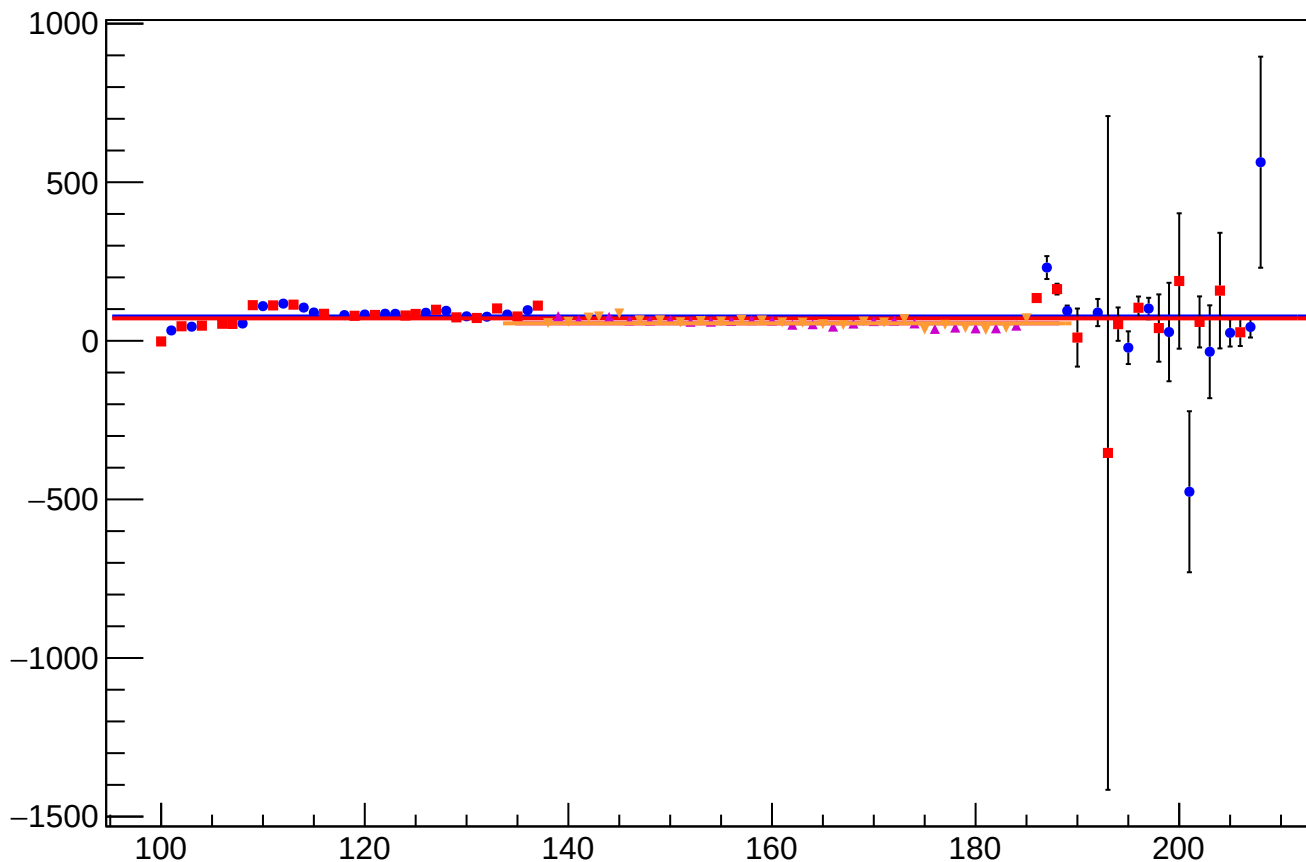
Right: 3.010 ± 0.224 χ^2/NDF : 613.9/57

In: -0.194 ± 0.136 χ^2/NDF : 1500.3/50

Out: 0.136 ± 0.133 χ^2/NDF : 1753.0/54

All: -0.025 ± 0.095 χ^2/NDF : 3256.3/105

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2298.4/27

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.749 $\pm$ 0.549 χ^2 /NDF: 4492.4/29

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

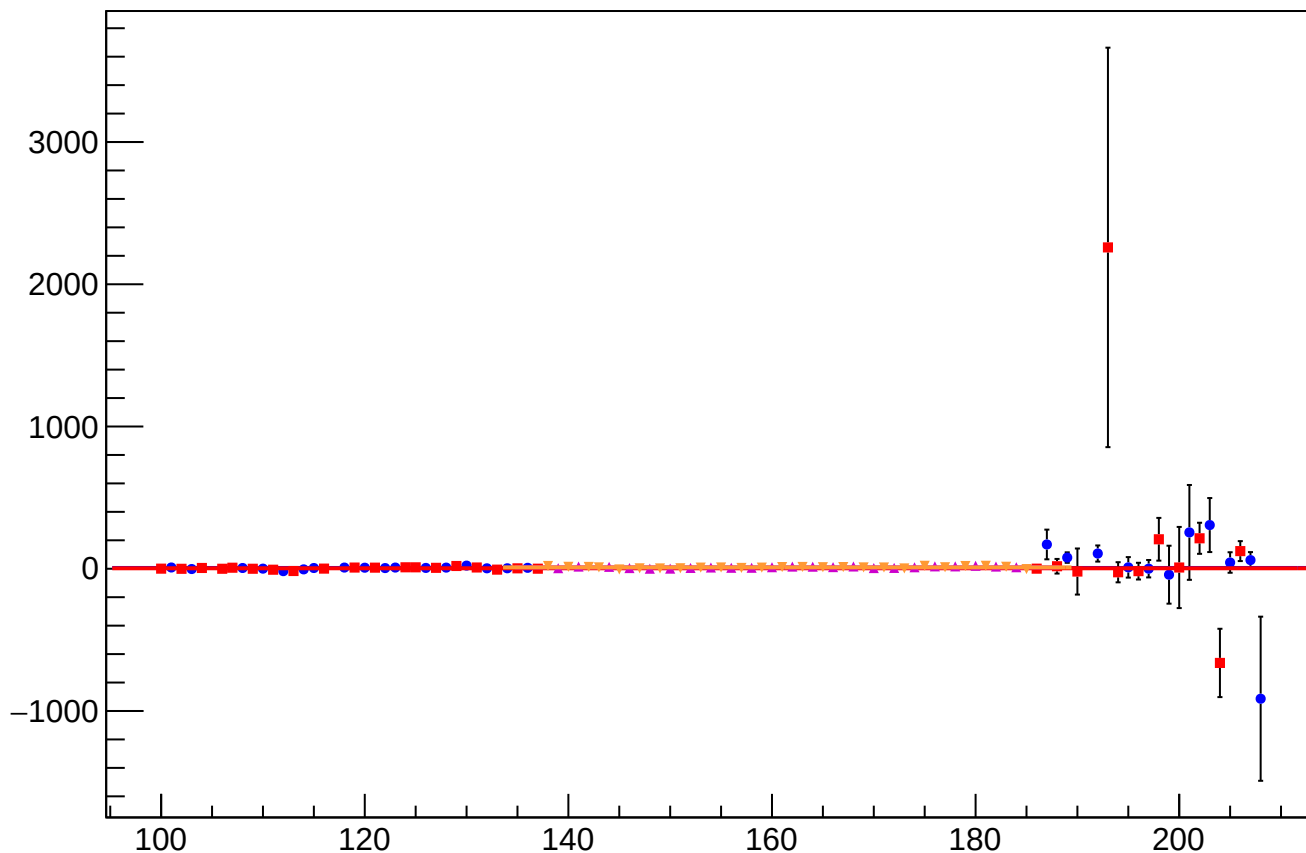
Right: 73.582 $\pm$ 0.397 χ^2 /NDF: 6847.0/57

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7226.5/50

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9776.7/54

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17006.6/105

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.445 $\pm$ 0.361 χ^2 /NDF: 400.8/27

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 444.2/29

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

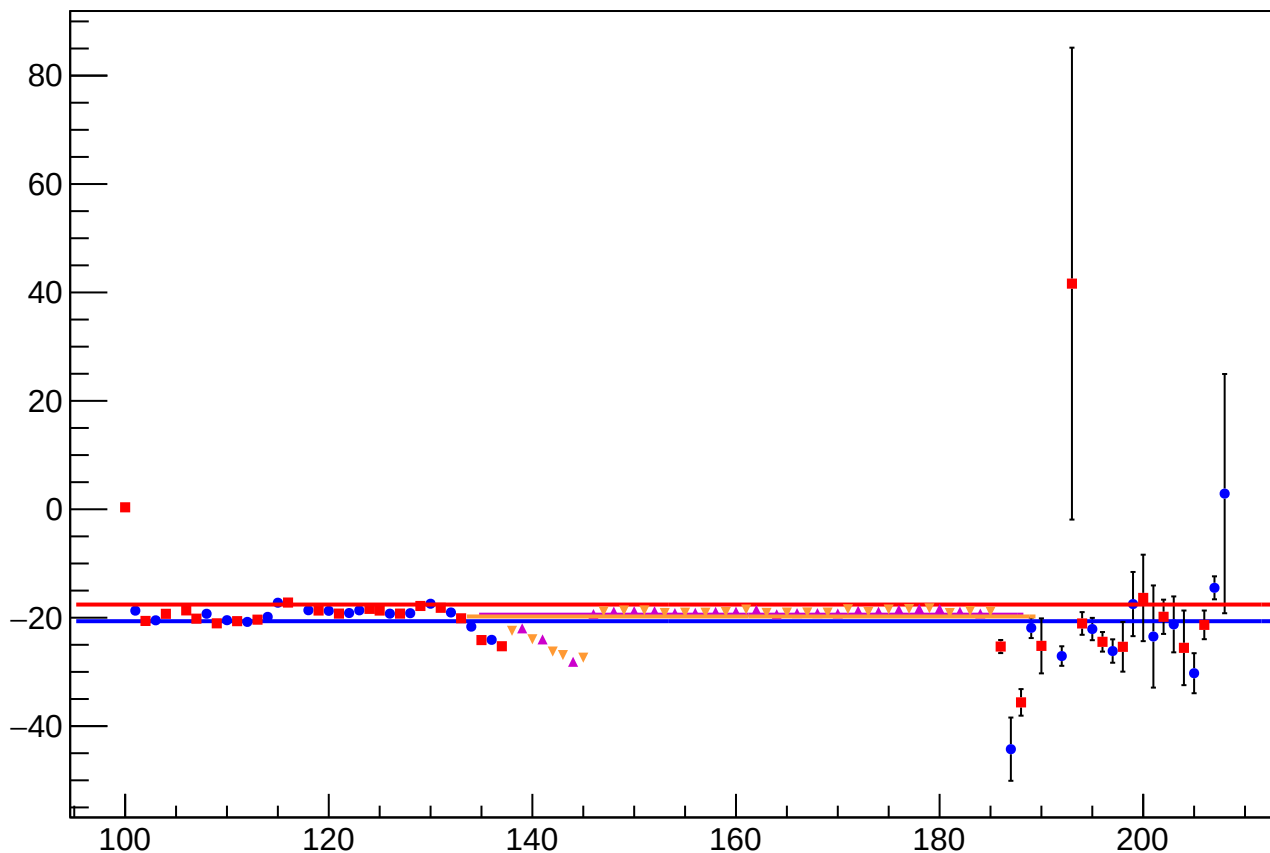
Right: 4.378 $\pm$ 0.257 χ^2 /NDF: 862.8/57

In: 8.946 $\pm$ 0.155 χ^2 /NDF:1707.2/50

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2138.2/54

All: 8.751 $\pm$ 0.109 χ^2 /NDF: 3848.5/105

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 ± 0.019 $\chi^2/\text{NDF}: 12515.9/27$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178441.6/29$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

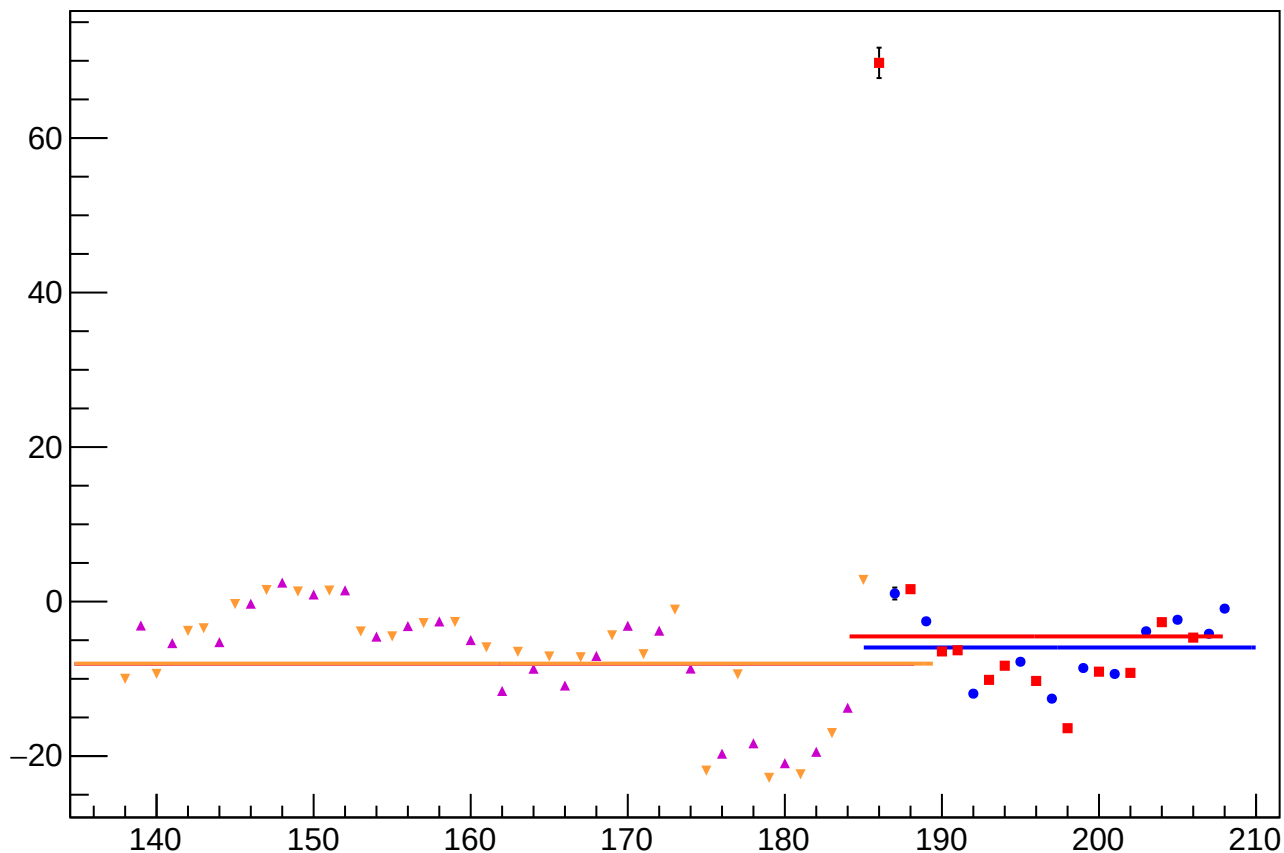
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204427.6/57$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68937.3/50$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282429.1/54$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351729.6/105$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.943 ± 0.120 χ^2/NDF : 1188.8/10

Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24

Right Out: -4.511 ± 0.108 χ^2/NDF : 3924.1/11

Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47

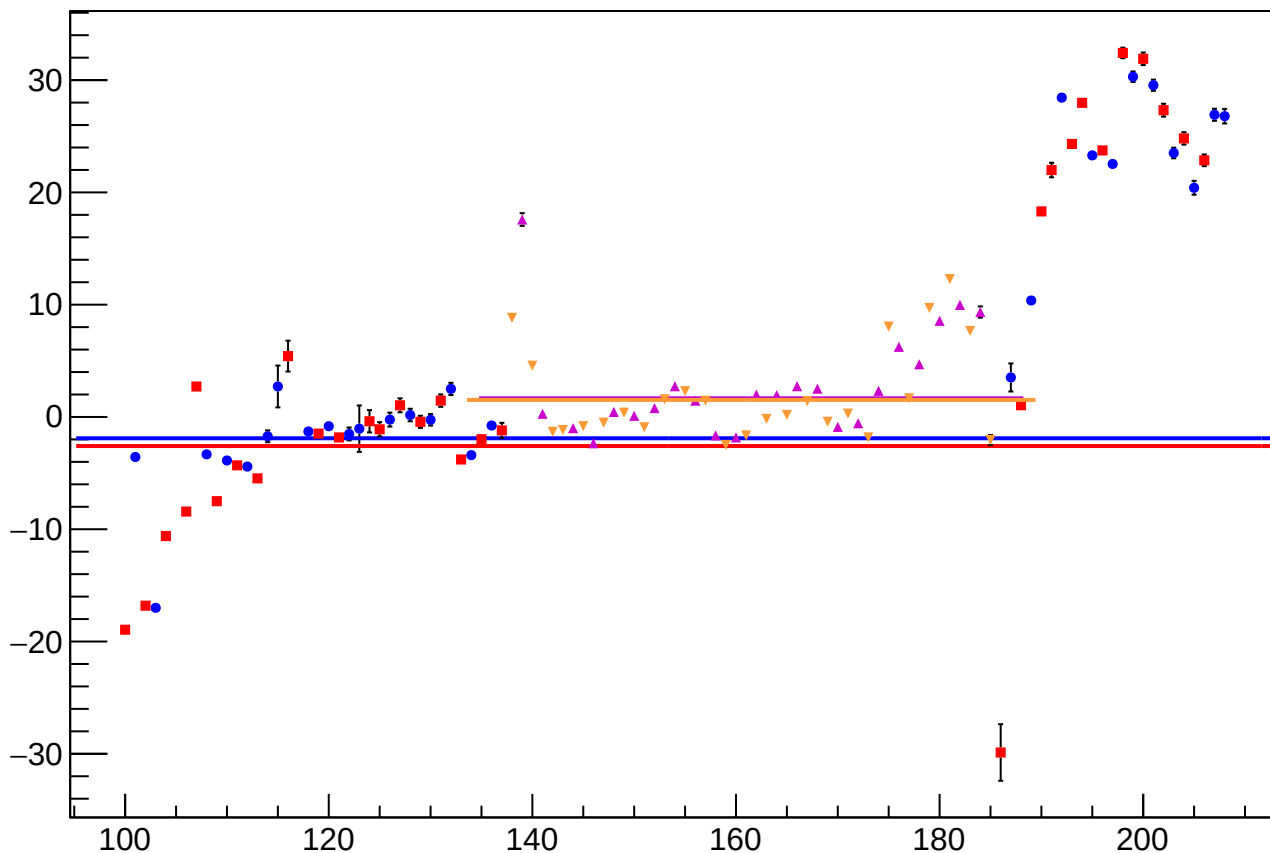
Right: -5.150 ± 0.080 χ^2/NDF : 5191.7/22

In: -7.514 ± 0.062 χ^2/NDF : 11963.1/33

Out: -6.983 ± 0.059 χ^2/NDF : 17241.6/36

All: -7.236 ± 0.043 χ^2/NDF : 29243.5/70

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.898 ± 0.051 χ^2/NDF : 45171.3/27

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.591 ± 0.054 χ^2/NDF : 53658.6/30

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

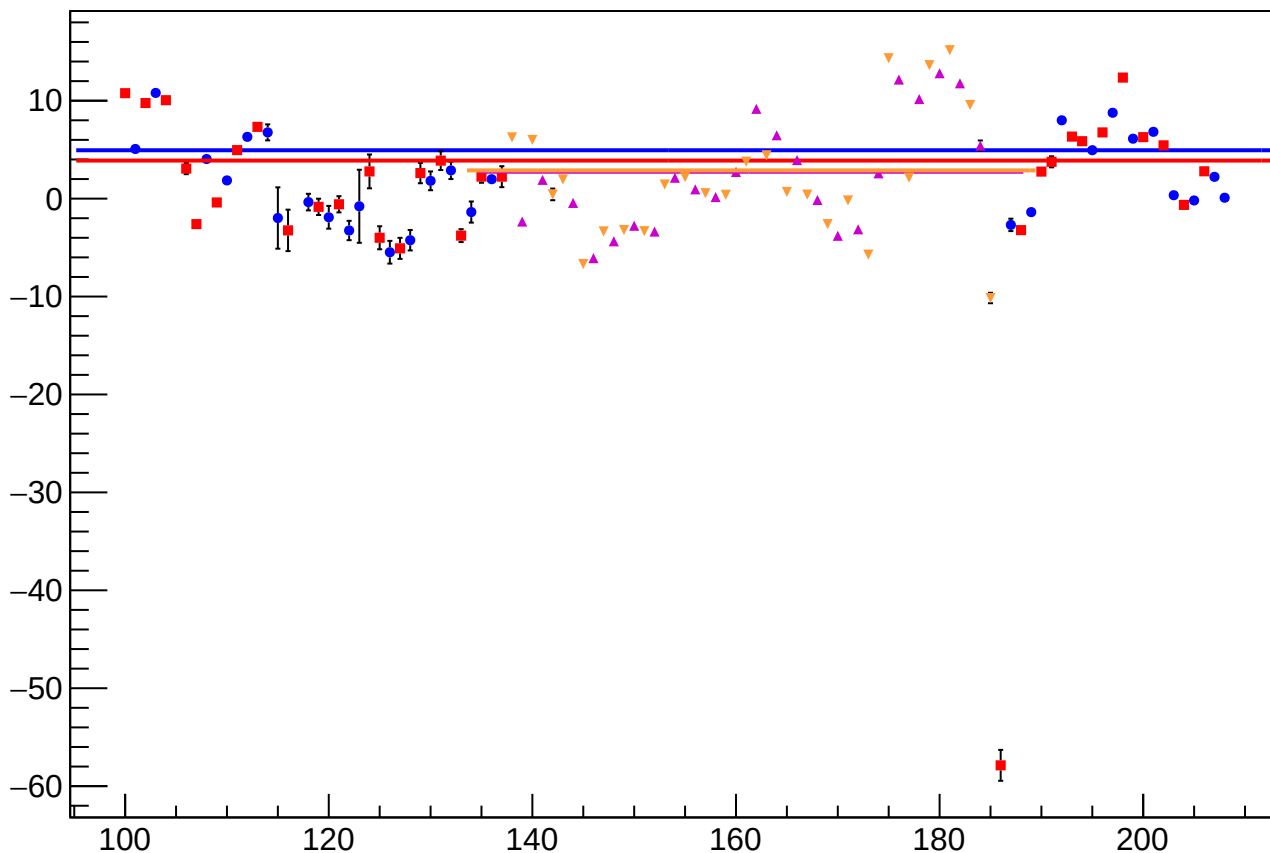
Right: -2.228 ± 0.037 χ^2/NDF : 98916.6/58

In: -0.286 ± 0.038 χ^2/NDF : 51372.9/50

Out: -0.555 ± 0.038 χ^2/NDF : 61388.7/55

All: -0.420 ± 0.027 χ^2/NDF : 112786.3/106

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.940 ± 0.070 $\chi^2/\text{NDF}: 2847.8/27$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.888 ± 0.066 $\chi^2/\text{NDF}: 7787.9/30$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

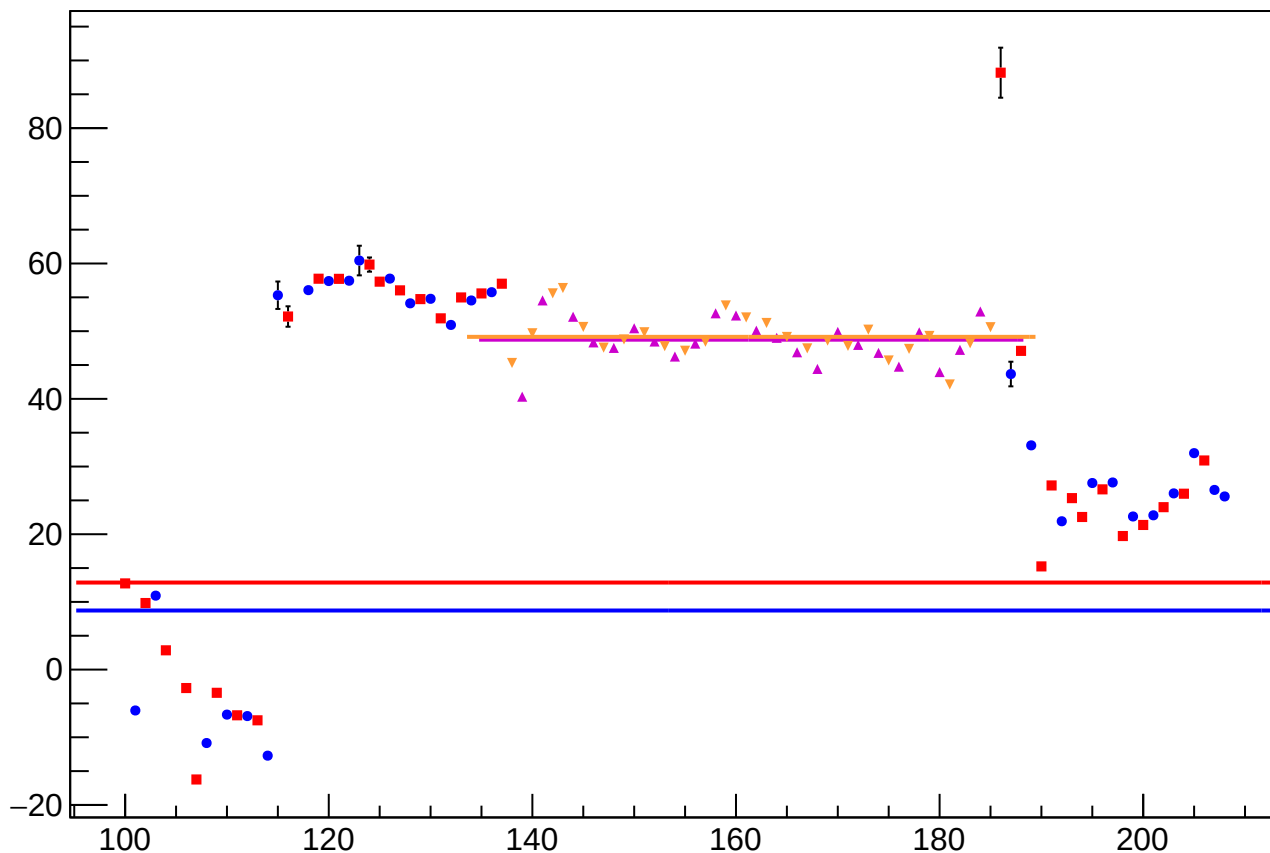
Right: 4.389 ± 0.048 $\chi^2/\text{NDF}: 10755.1/58$

In: 3.870 ± 0.050 $\chi^2/\text{NDF}: 10514.4/50$

Out: 3.414 ± 0.048 $\chi^2/\text{NDF}: 16788.9/55$

All: 3.635 ± 0.035 $\chi^2/\text{NDF}: 27346.4/106$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.729+/-0.061 χ^2/NDF : 133050.8/27

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 12.861+/-0.064 χ^2/NDF : 135566.9/30

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

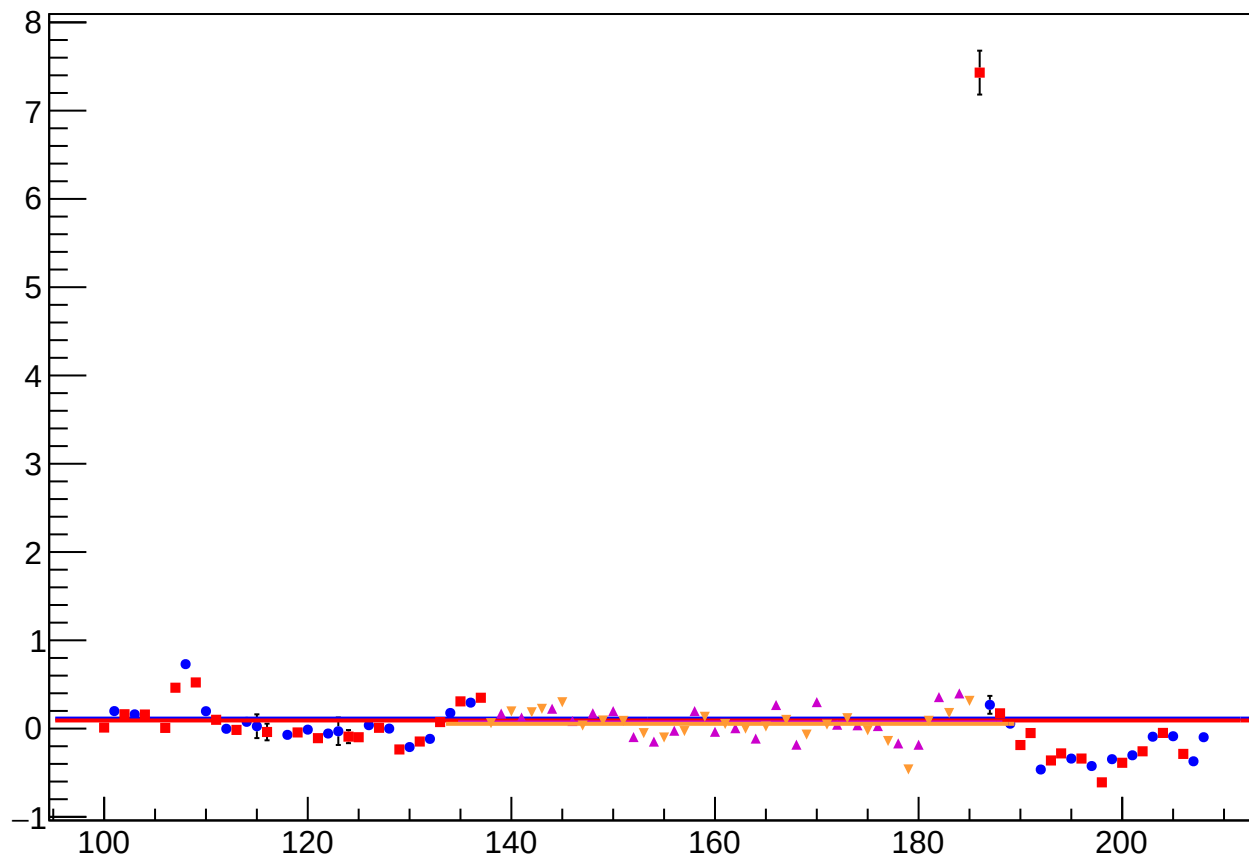
Right: 10.682+/-0.044 χ^2/NDF : 270810.6/58

In: 27.739+/-0.044 χ^2/NDF :341854.3/50

Out: 31.681+/-0.044 χ^2/NDF :304317.3/55

All: 29.688+/-0.031 χ^2/NDF : 650147.8/106

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 $\pm$ 0.002 χ^2 /NDF: 11562.1/27

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.092 $\pm$ 0.002 χ^2 /NDF: 10932.8/30

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

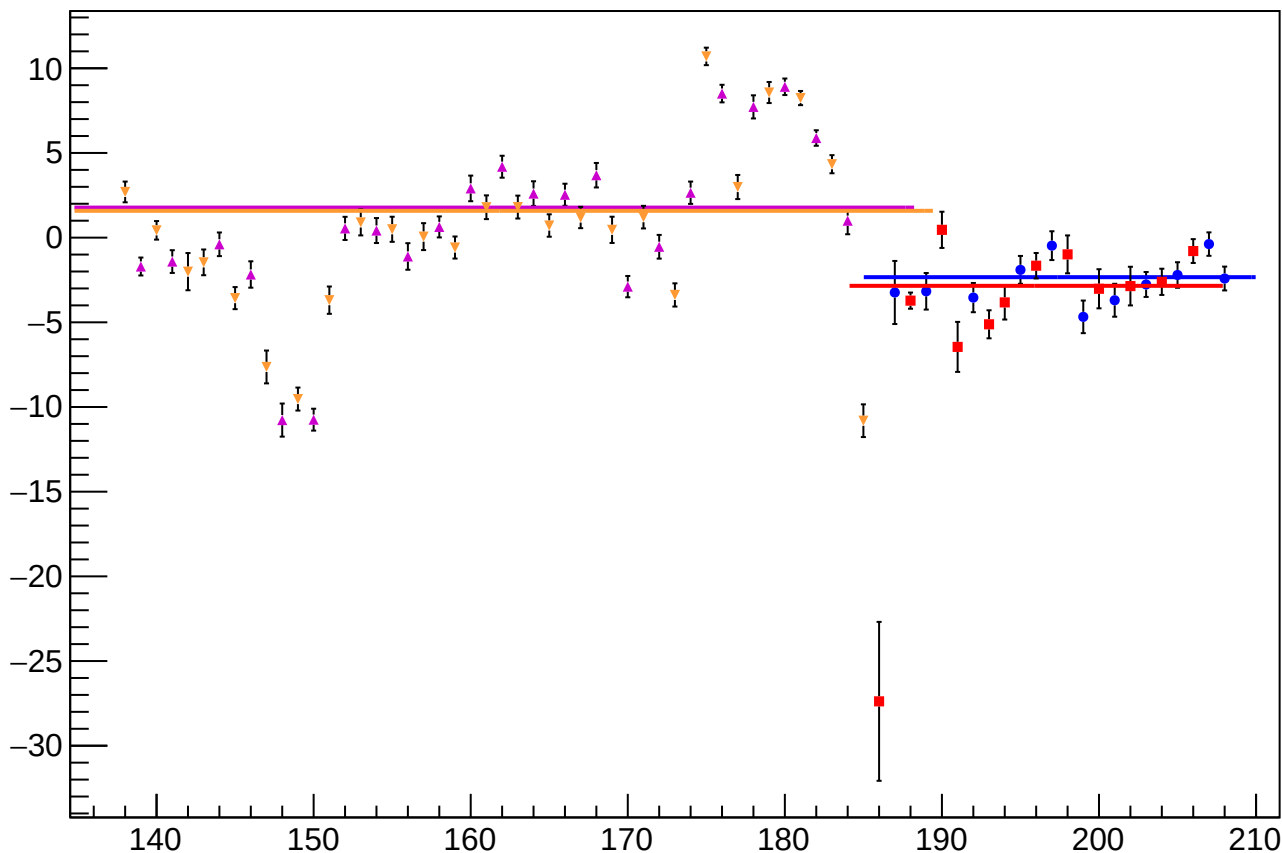
Right: 0.102 $\pm$ 0.002 χ^2 /NDF: 22532.5/58

In: 0.095 $\pm$ 0.002 χ^2 /NDF:14923.8/50

Out: 0.076 $\pm$ 0.002 χ^2 /NDF:13418.4/55

All: 0.085 $\pm$ 0.001 χ^2 /NDF: 28392.8/106

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.334 ± 0.256 χ^2/NDF : 24.1/10

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.846 ± 0.250 χ^2/NDF : 68.6/11

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

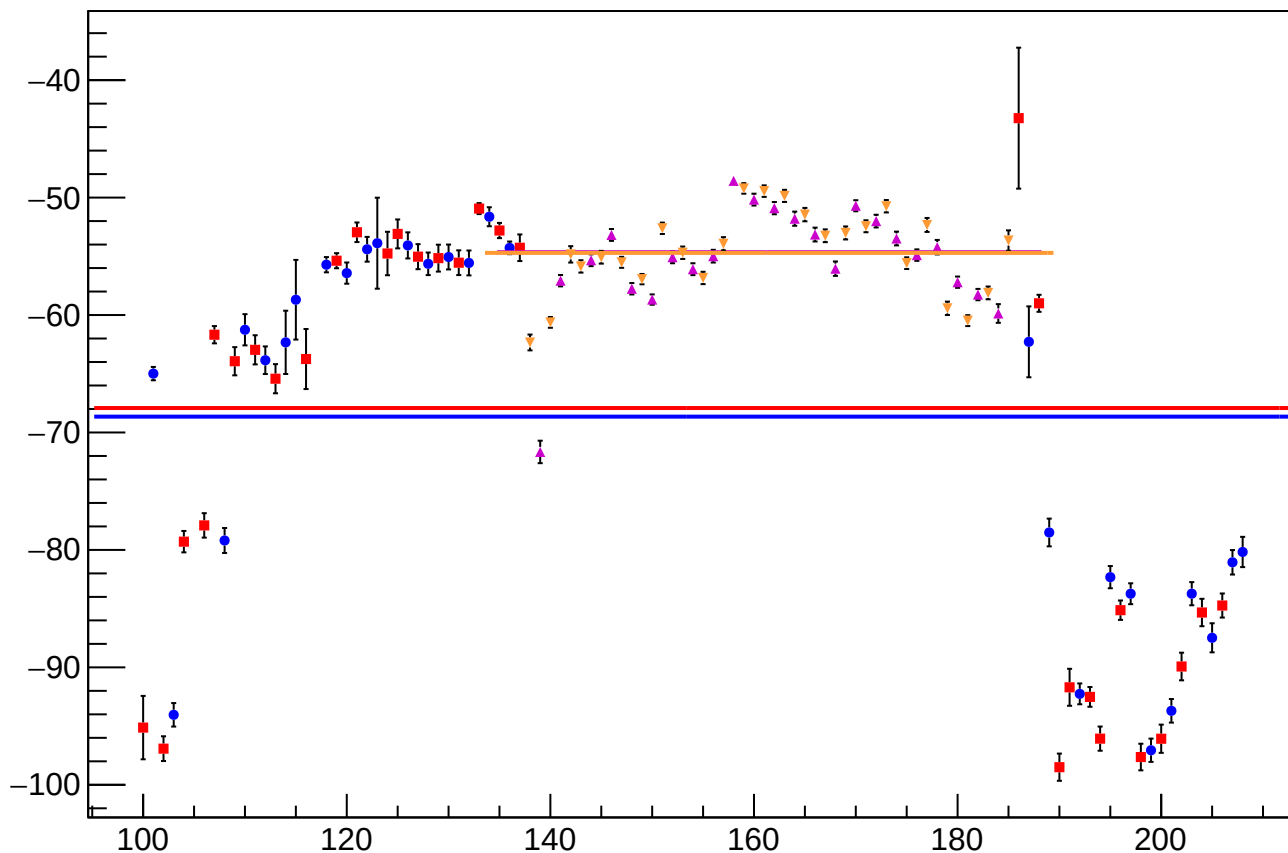
Right: -2.596 ± 0.179 χ^2/NDF : 94.7/22

In: 0.880 ± 0.120 χ^2/NDF : 1522.3/33

Out: 0.611 ± 0.117 χ^2/NDF : 1772.2/36

All: 0.743 ± 0.084 χ^2/NDF : 3297.0/70

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -68.650 ± 0.184 $\chi^2/\text{NDF}: 6862.2/27$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -67.919 ± 0.174 $\chi^2/\text{NDF}: 9729.6/30$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

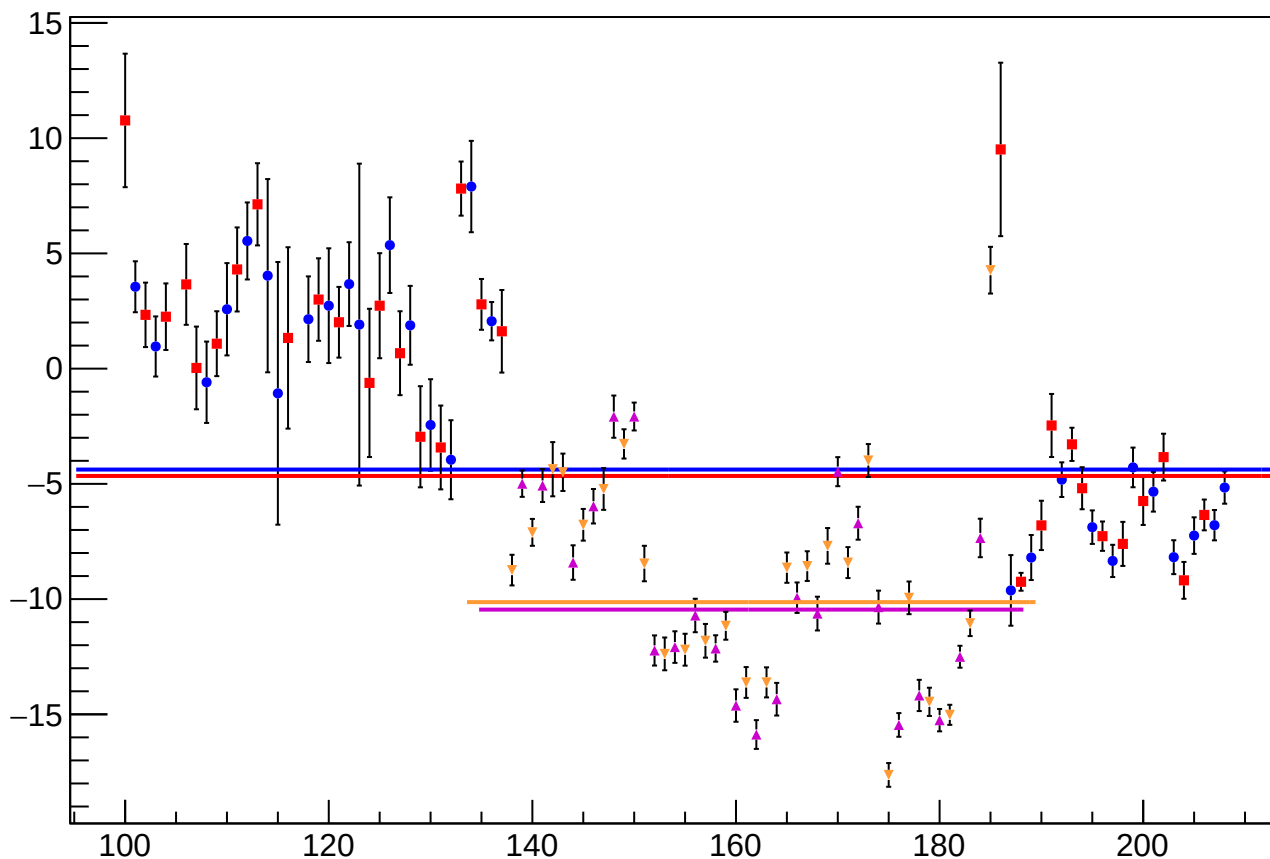
Right: -68.264 ± 0.127 $\chi^2/\text{NDF}: 16600.1/58$

In: -58.315 ± 0.094 $\chi^2/\text{NDF}: 12196.4/50$

Out: -58.266 ± 0.090 $\chi^2/\text{NDF}: 15064.6/55$

All: -58.289 ± 0.065 $\chi^2/\text{NDF}: 27261.1/106$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



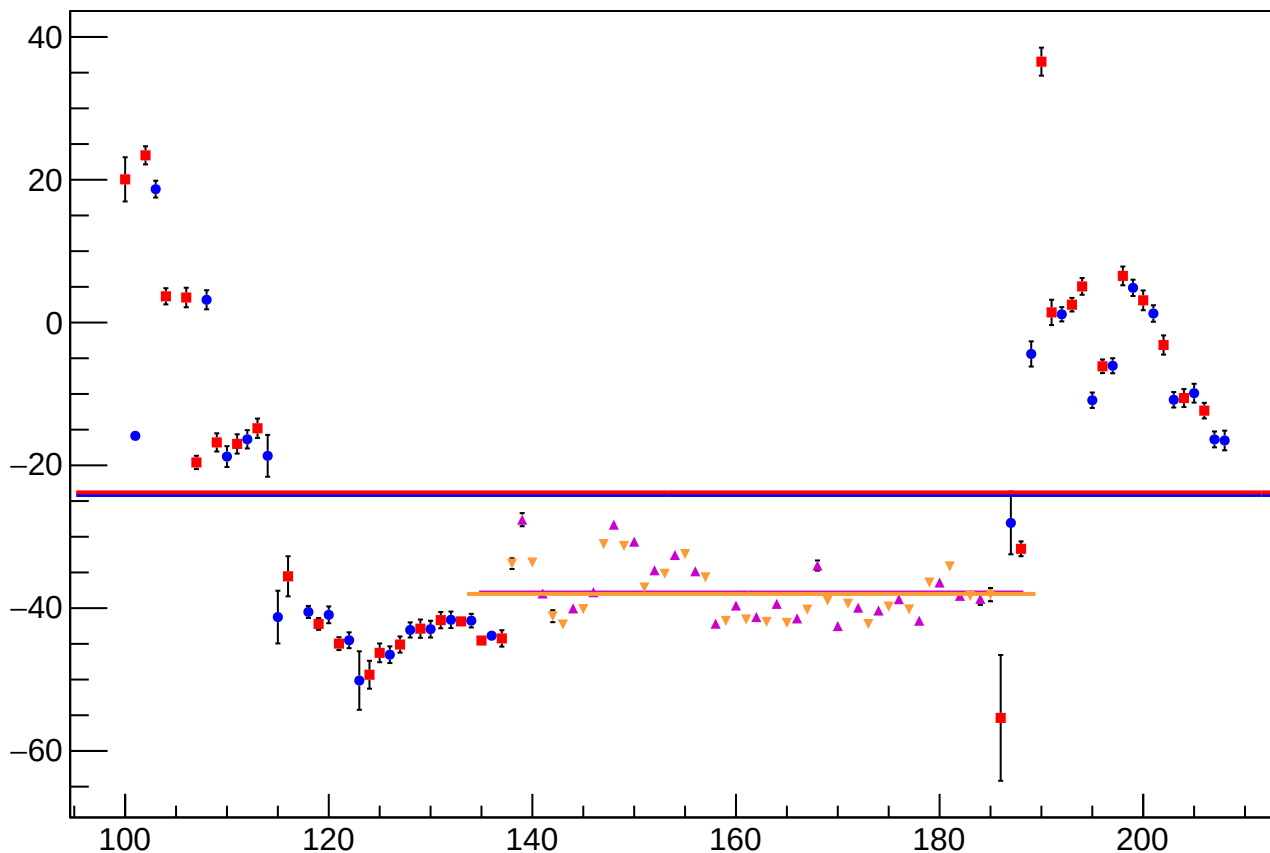
Right In: -4.379 ± 0.205 $\chi^2/\text{NDF}: 427.2/27$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.657 ± 0.192 $\chi^2/\text{NDF}: 653.6/30$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.527 ± 0.140 $\chi^2/\text{NDF}: 1081.8/58$

In: -8.628 ± 0.113 $\chi^2/\text{NDF}: 2042.6/50$
 Out: -8.358 ± 0.109 $\chi^2/\text{NDF}: 2259.4/55$

All: -8.489 ± 0.078 $\chi^2/\text{NDF}: 4305.0/106$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.146 $\pm$ 0.210 χ^2 /NDF: 8436.1/27

Left Out: -38.006 $\pm$ 0.119 χ^2 /NDF:946.0/24

Right Out: -23.788 $\pm$ 0.203 χ^2 /NDF: 11601.5/30

Left In: -37.809 $\pm$ 0.122 χ^2 /NDF:1039.9/22

Left: -37.910 $\pm$ 0.085 χ^2 /NDF: 1987.2/47

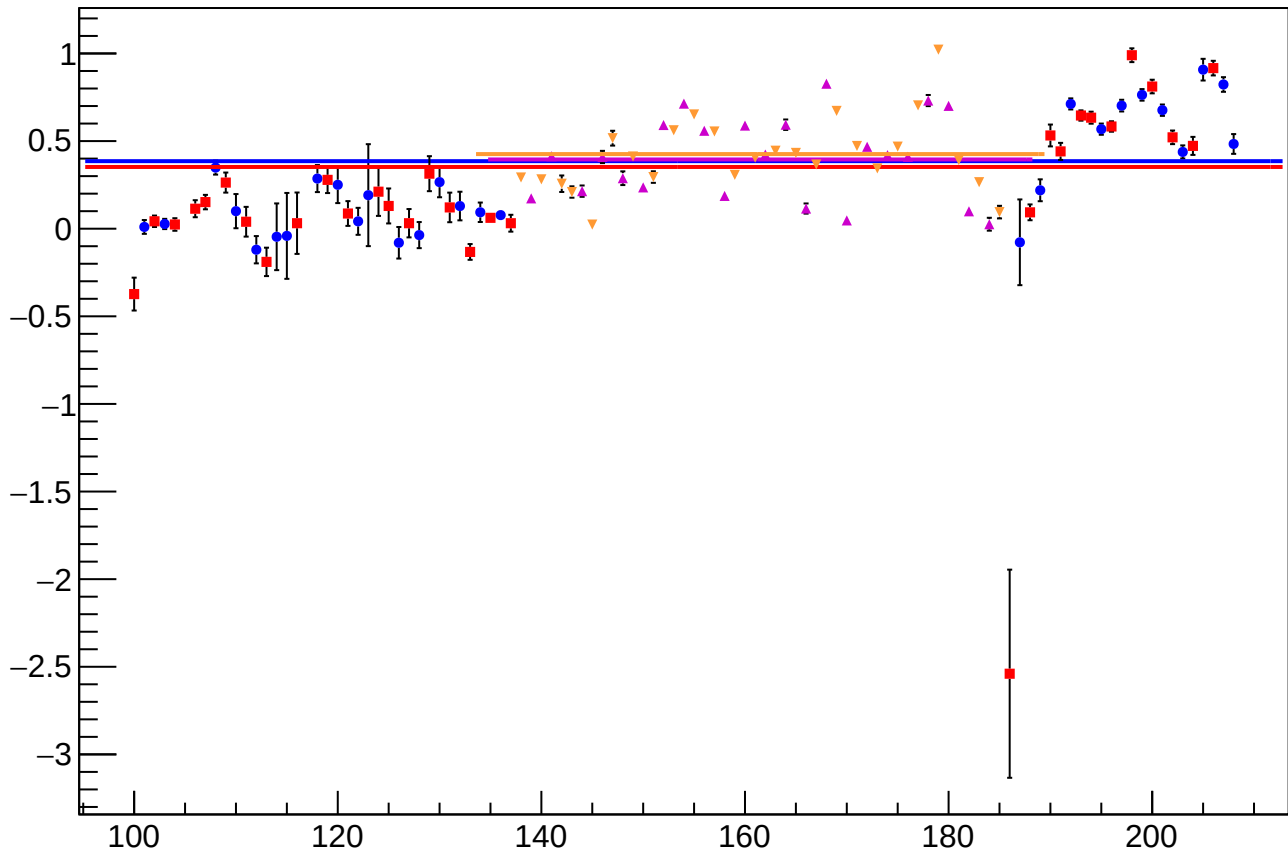
Right: -23.961 $\pm$ 0.146 χ^2 /NDF: 20039.2/58

In: -34.353 $\pm$ 0.106 χ^2 /NDF:12633.4/50

Out: -34.378 $\pm$ 0.102 χ^2 /NDF:16206.1/55

All: -34.366 $\pm$ 0.074 χ^2 /NDF: 28839.5/106

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.385 ± 0.009 χ^2/NDF : 1253.8/27

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.352 ± 0.008 χ^2/NDF : 1574.8/30

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

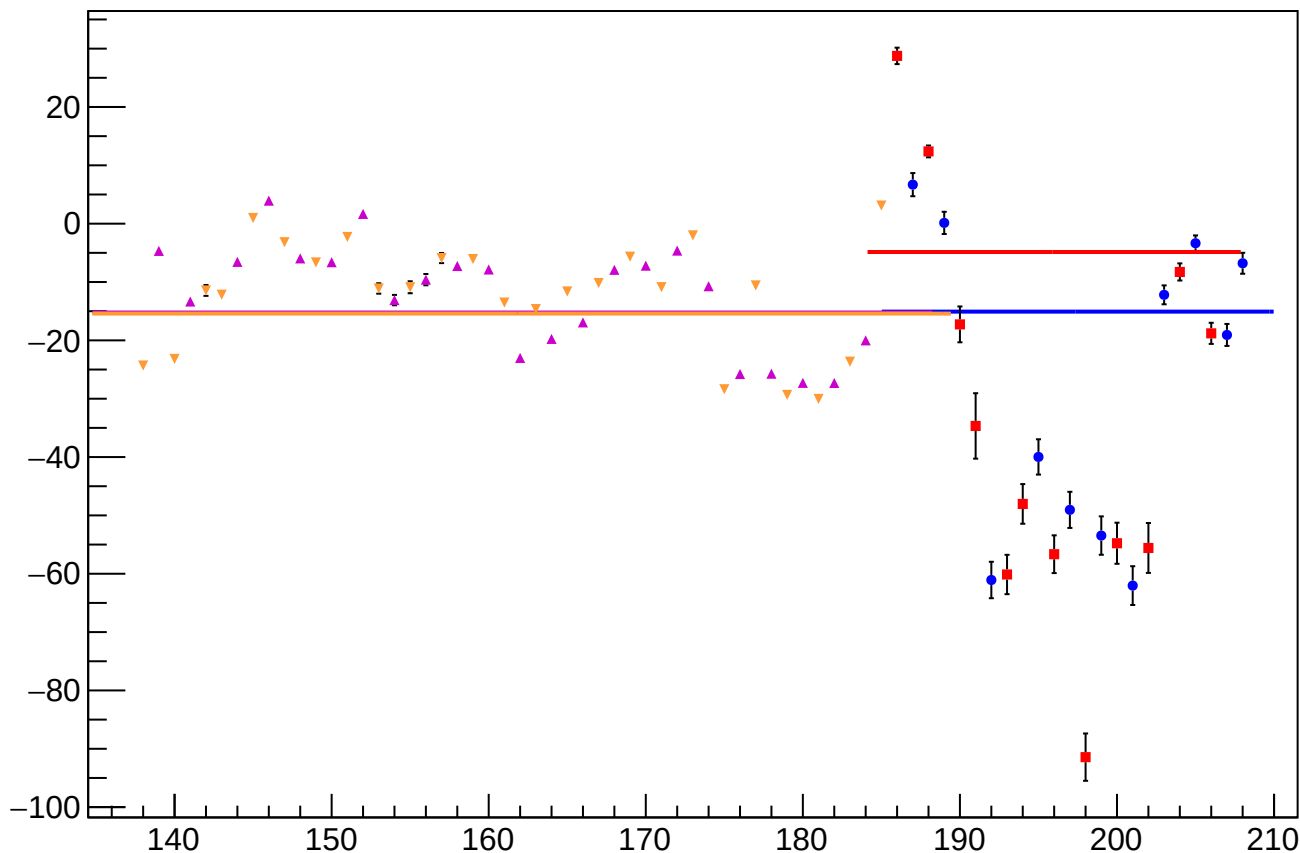
Right: 0.368 ± 0.006 χ^2/NDF : 2835.9/58

In: 0.392 ± 0.005 χ^2/NDF : 3052.8/50

Out: 0.405 ± 0.005 χ^2/NDF : 2932.2/55

All: 0.399 ± 0.003 χ^2/NDF : 5988.7/106

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.073 ± 0.625 $\chi^2/\text{NDF}: 1030.4/10$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.855 ± 0.592 $\chi^2/\text{NDF}: 2451.6/11$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

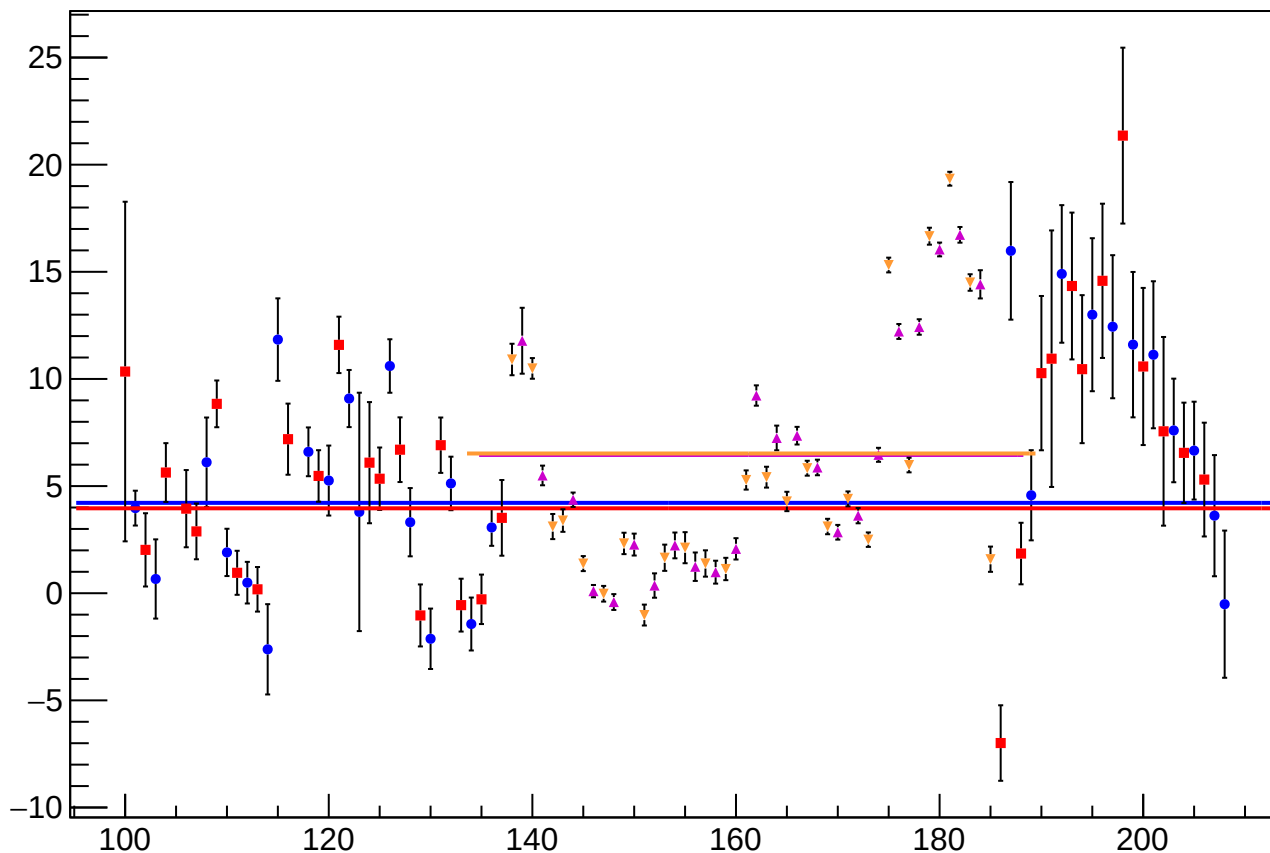
Right: -9.687 ± 0.430 $\chi^2/\text{NDF}: 3622.8/22$

In: -15.225 ± 0.105 $\chi^2/\text{NDF}: 9687.8/33$

Out: -15.090 ± 0.104 $\chi^2/\text{NDF}: 13268.9/36$

All: -15.156 ± 0.074 $\chi^2/\text{NDF}: 22957.5/70$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.217 $\pm$ 0.293 χ^2 /NDF: 188.5/27

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.962 $\pm$ 0.293 χ^2 /NDF: 223.7/30

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

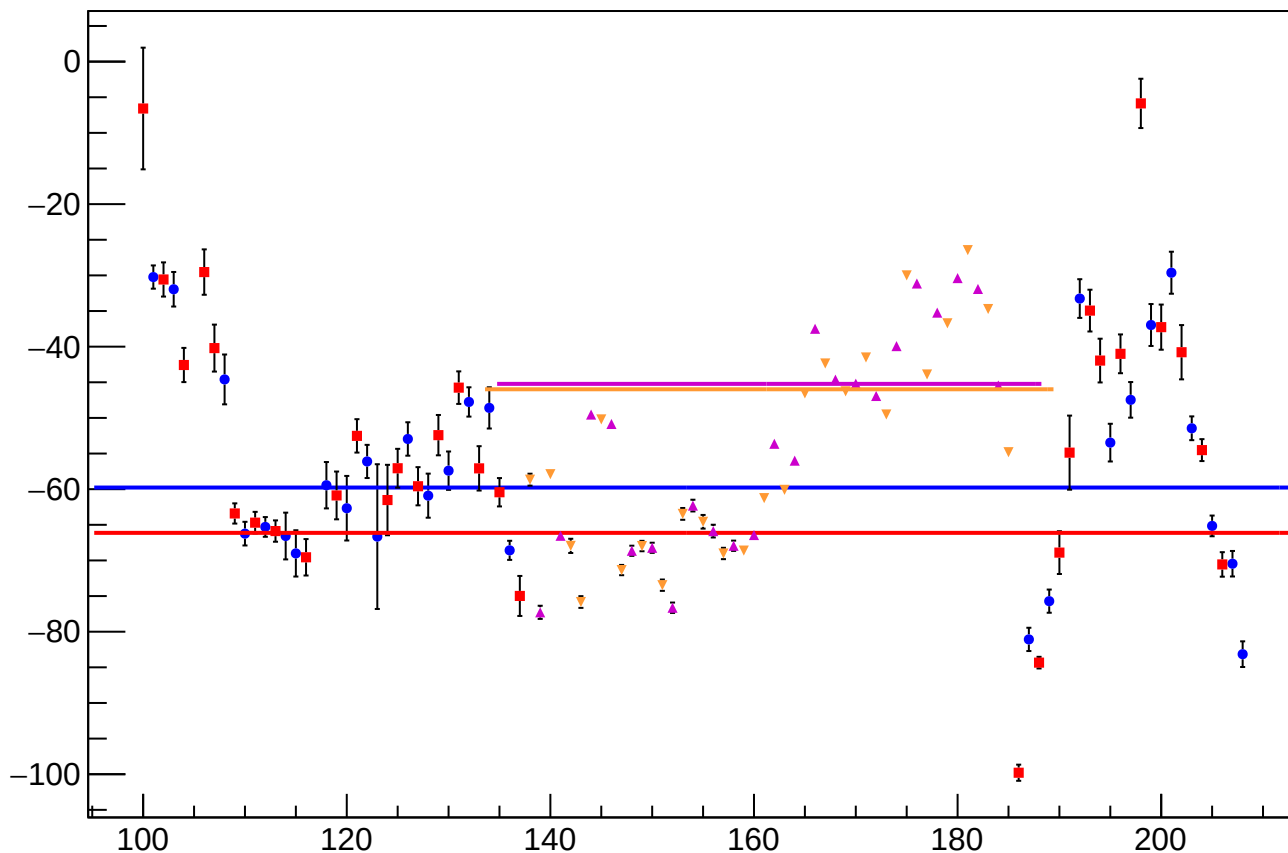
Right: 4.090 $\pm$ 0.207 χ^2 /NDF: 412.6/58

In: 6.274 $\pm$ 0.083 χ^2 /NDF:4190.2/50

Out: 6.321 $\pm$ 0.082 χ^2 /NDF:5279.1/55

All: 6.298 $\pm$ 0.058 χ^2 /NDF: 9469.5/106

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.770 ± 0.400 χ^2/NDF : 1425.8/27

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -66.129 ± 0.371 χ^2/NDF : 2890.0/30

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

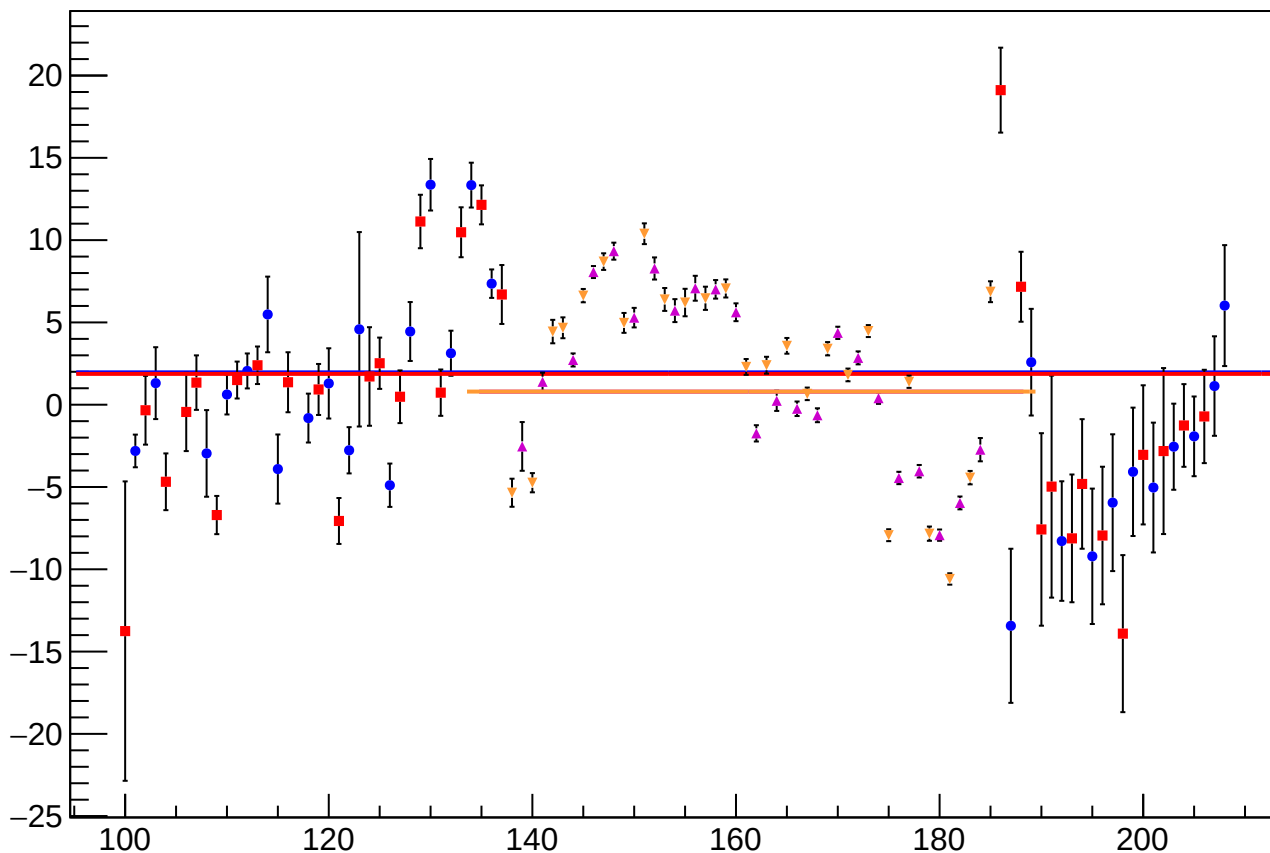
Right: -63.189 ± 0.272 χ^2/NDF : 4451.7/58

In: -46.197 ± 0.104 χ^2/NDF : 18260.3/50

Out: -47.510 ± 0.102 χ^2/NDF : 22976.2/55

All: -46.862 ± 0.073 χ^2/NDF : 41317.9/106

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.965 $\pm$ 0.329 χ^2 /NDF: 286.9/27

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF: 3760.0/24

Right Out: 1.873 $\pm$ 0.334 χ^2 /NDF: 349.7/30

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF: 2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

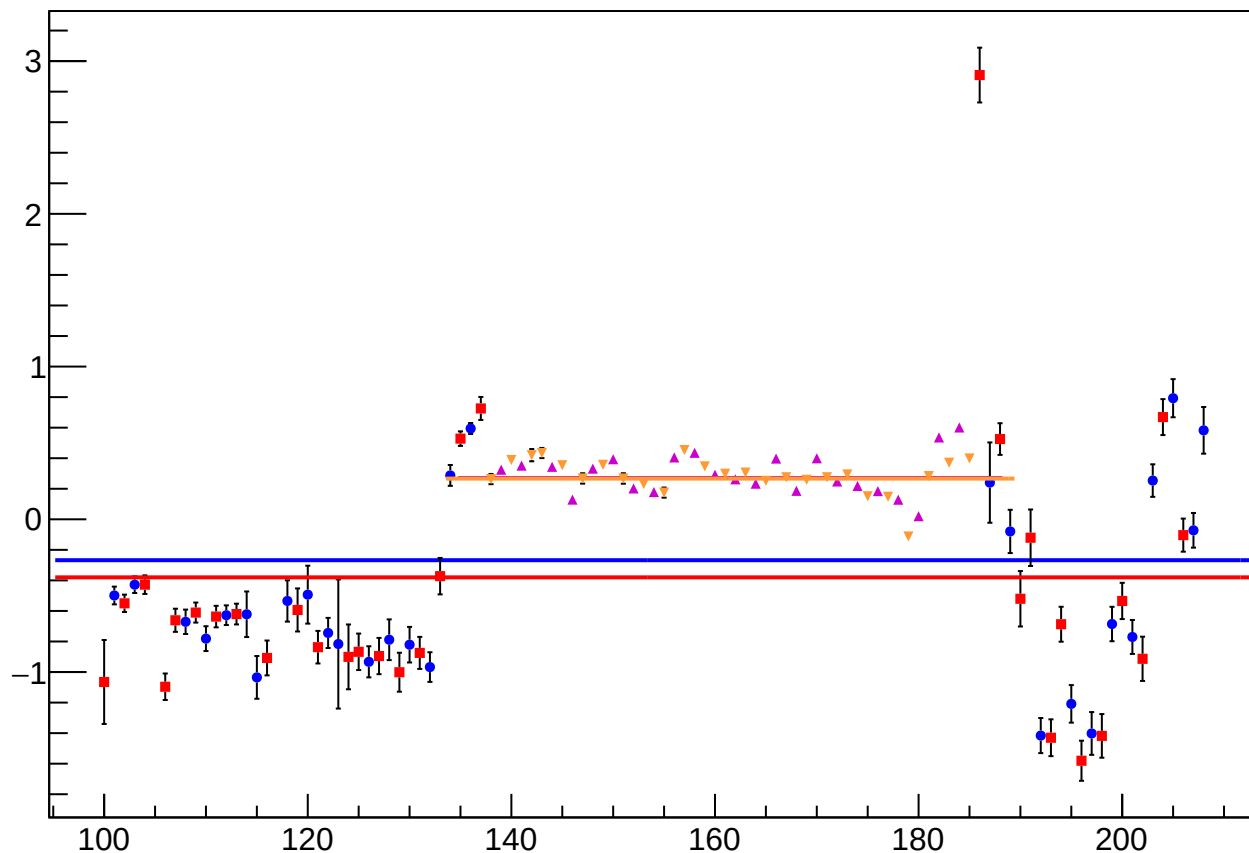
Right: 1.920 $\pm$ 0.235 χ^2 /NDF: 636.6/58

In: 0.885 $\pm$ 0.093 χ^2 /NDF: 2991.1/50

Out: 0.879 $\pm$ 0.092 χ^2 /NDF: 4119.2/55

All: 0.882 $\pm$ 0.065 χ^2 /NDF: 7110.3/106

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.268 ± 0.017 χ^2/NDF : 1354.3/27

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.380 ± 0.017 χ^2/NDF : 1581.0/30

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

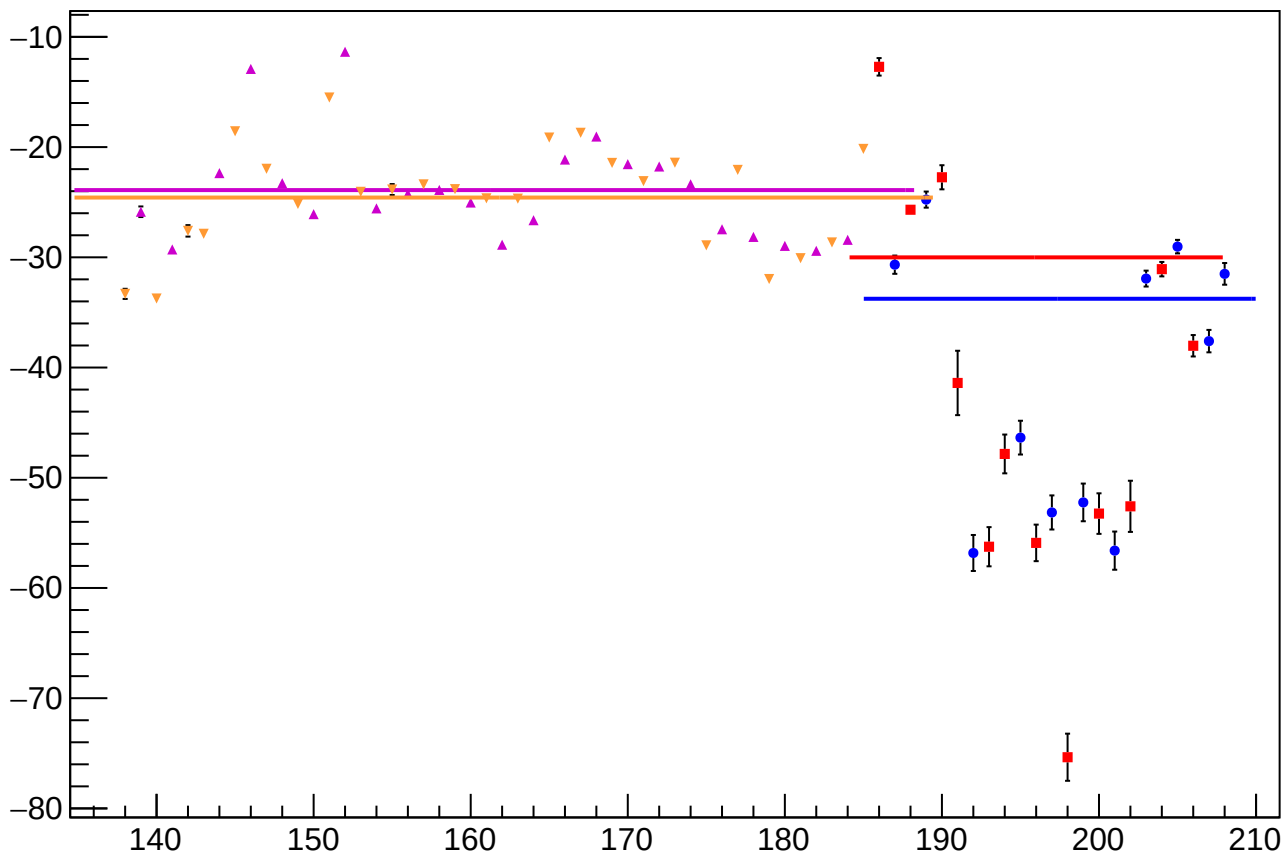
Right: -0.324 ± 0.012 χ^2/NDF : 2957.2/58

In: 0.236 ± 0.004 χ^2/NDF : 3268.3/50

Out: 0.226 ± 0.004 χ^2/NDF : 3646.0/55

All: 0.231 ± 0.003 χ^2/NDF : 6916.7/106

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.761 ± 0.291 χ^2/NDF : 966.1/10
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.005 ± 0.277 χ^2/NDF : 1974.5/11
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

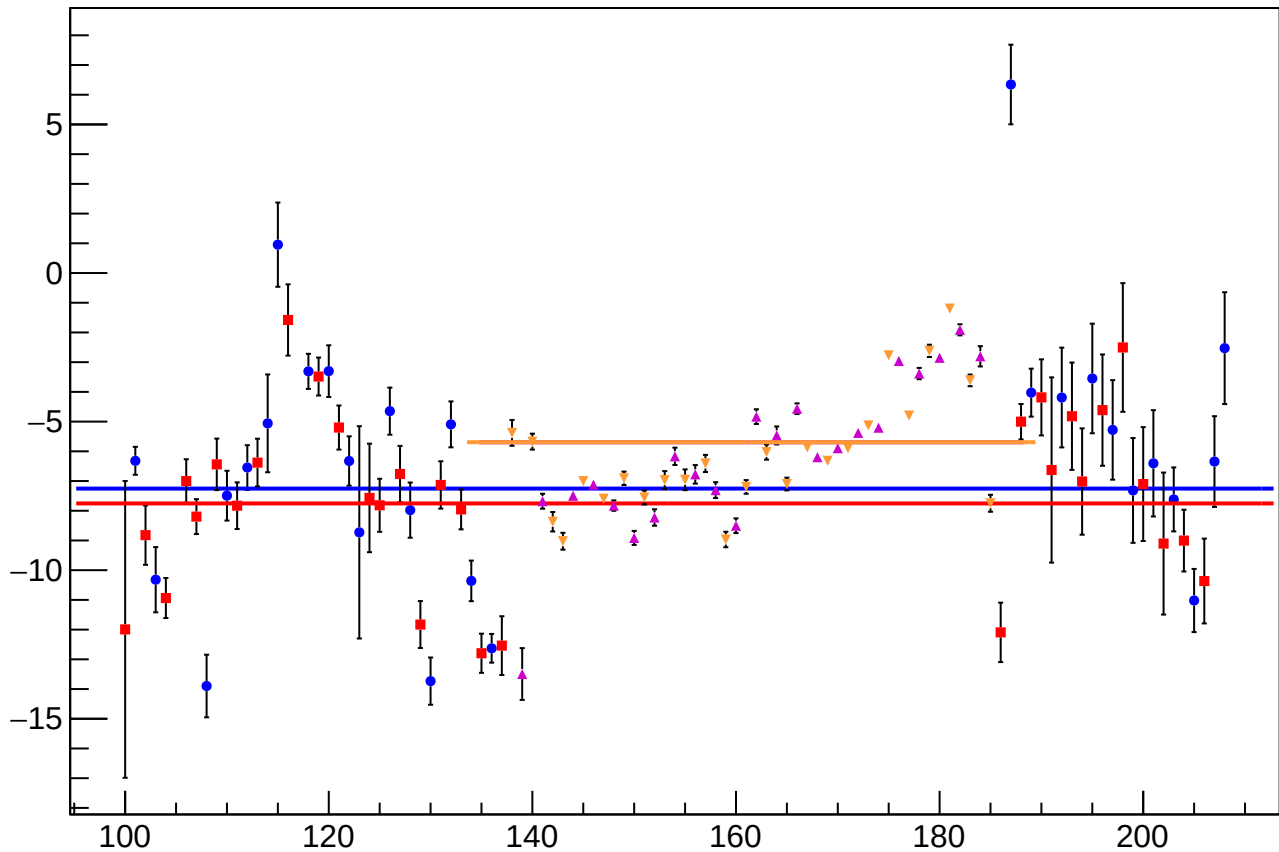
Right: -31.790 ± 0.201 χ^2/NDF : 3027.9/22

In: -24.196 ± 0.050 χ^2/NDF : 11234.0/33

Out: -24.755 ± 0.050 χ^2/NDF : 10936.2/36

All: -24.476 ± 0.036 χ^2/NDF : 22232.2/70

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.254 ± 0.170 χ^2/NDF : 532.0/27

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.754 ± 0.166 χ^2/NDF : 289.4/30

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

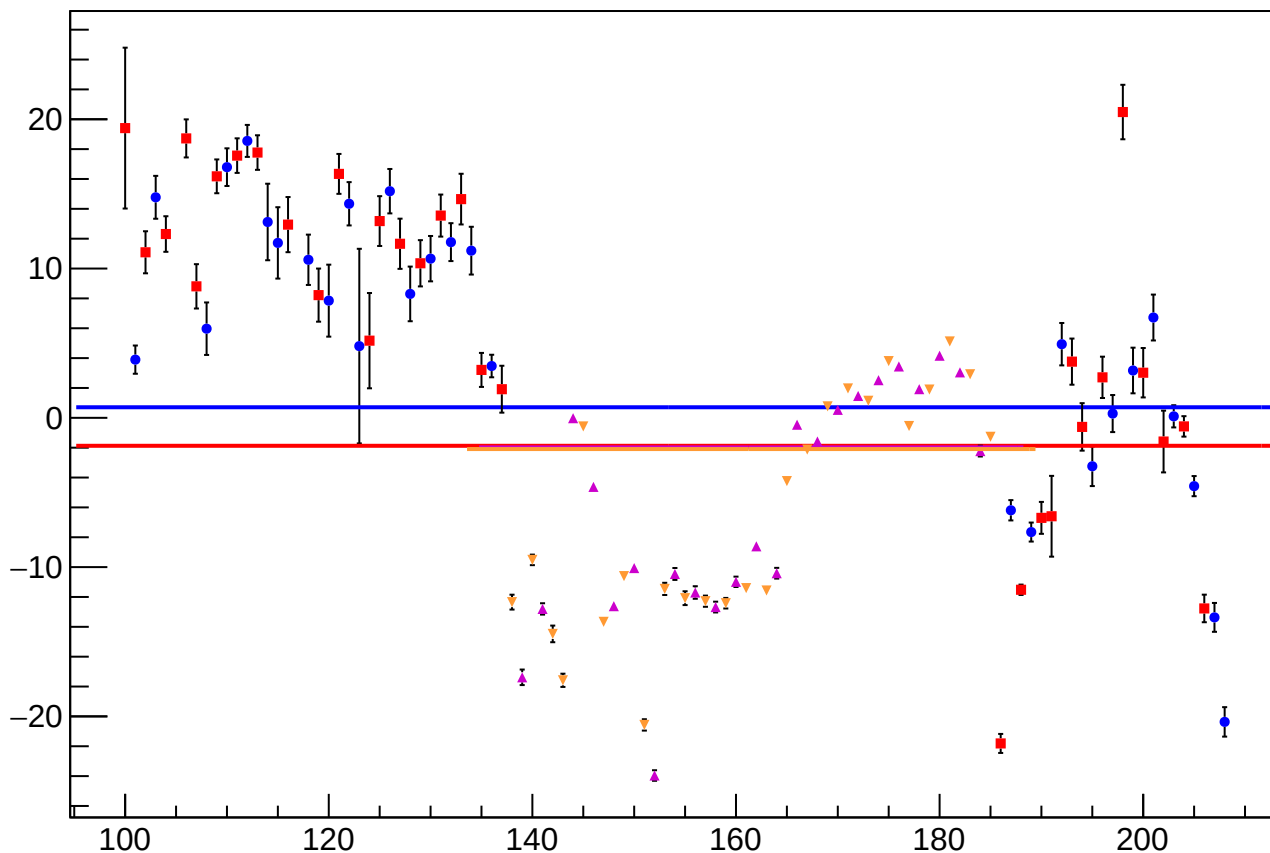
Right: -7.510 ± 0.119 χ^2/NDF : 825.9/58

In: -5.781 ± 0.040 χ^2/NDF : 2921.3/50

Out: -5.813 ± 0.040 χ^2/NDF : 2693.2/55

All: -5.797 ± 0.028 χ^2/NDF : 5614.9/106

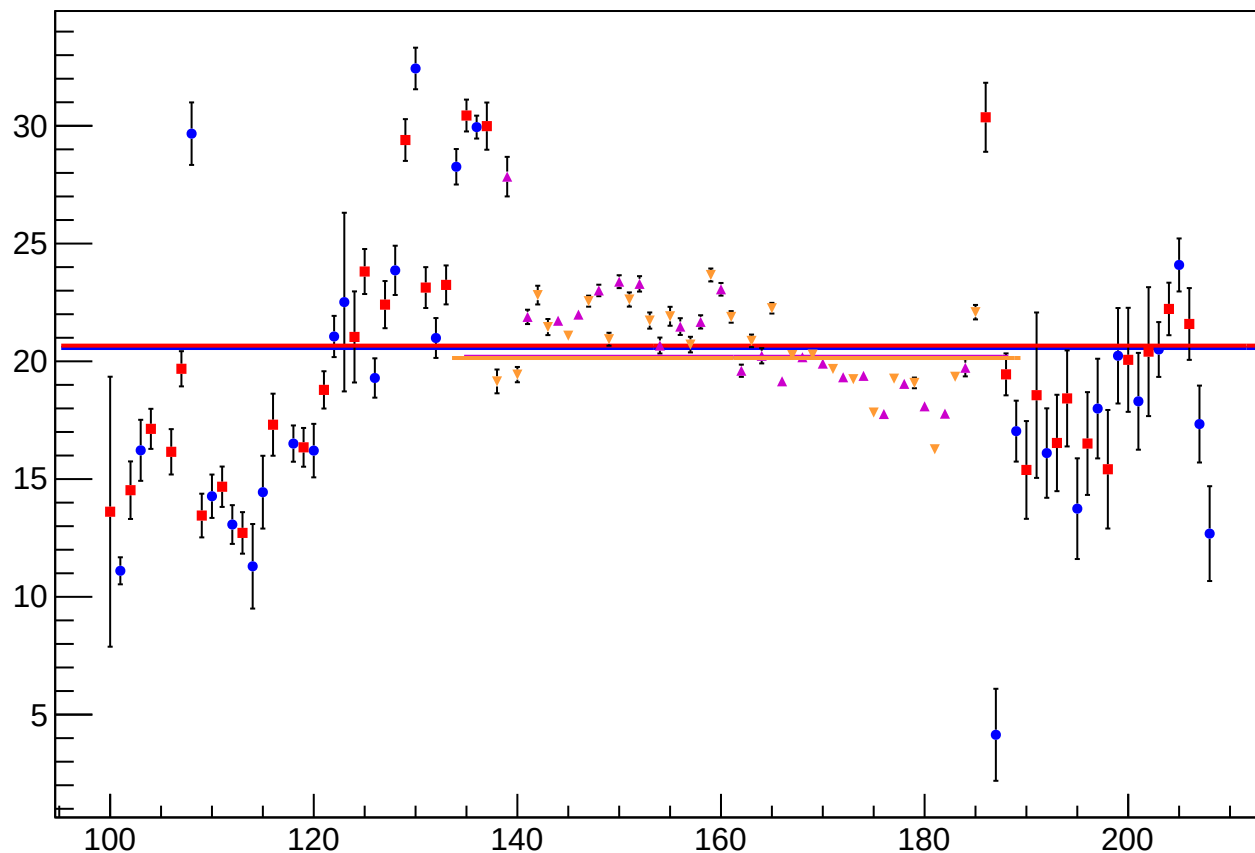
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.708 ± 0.213 $\chi^2/\text{NDF}: 2060.7/27$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.873 ± 0.195 $\chi^2/\text{NDF}: 4220.1/30$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: -0.698 ± 0.144 $\chi^2/\text{NDF}: 6360.6/58$
 In: -1.833 ± 0.050 $\chi^2/\text{NDF}: 17593.4/50$
 Out: -2.078 ± 0.050 $\chi^2/\text{NDF}: 20526.6/55$
 All: -1.956 ± 0.035 $\chi^2/\text{NDF}: 38132.0/106$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.565 $\pm$ 0.194 χ^2 /NDF: 1340.1/27

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.666 $\pm$ 0.194 χ^2 /NDF: 789.8/30

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

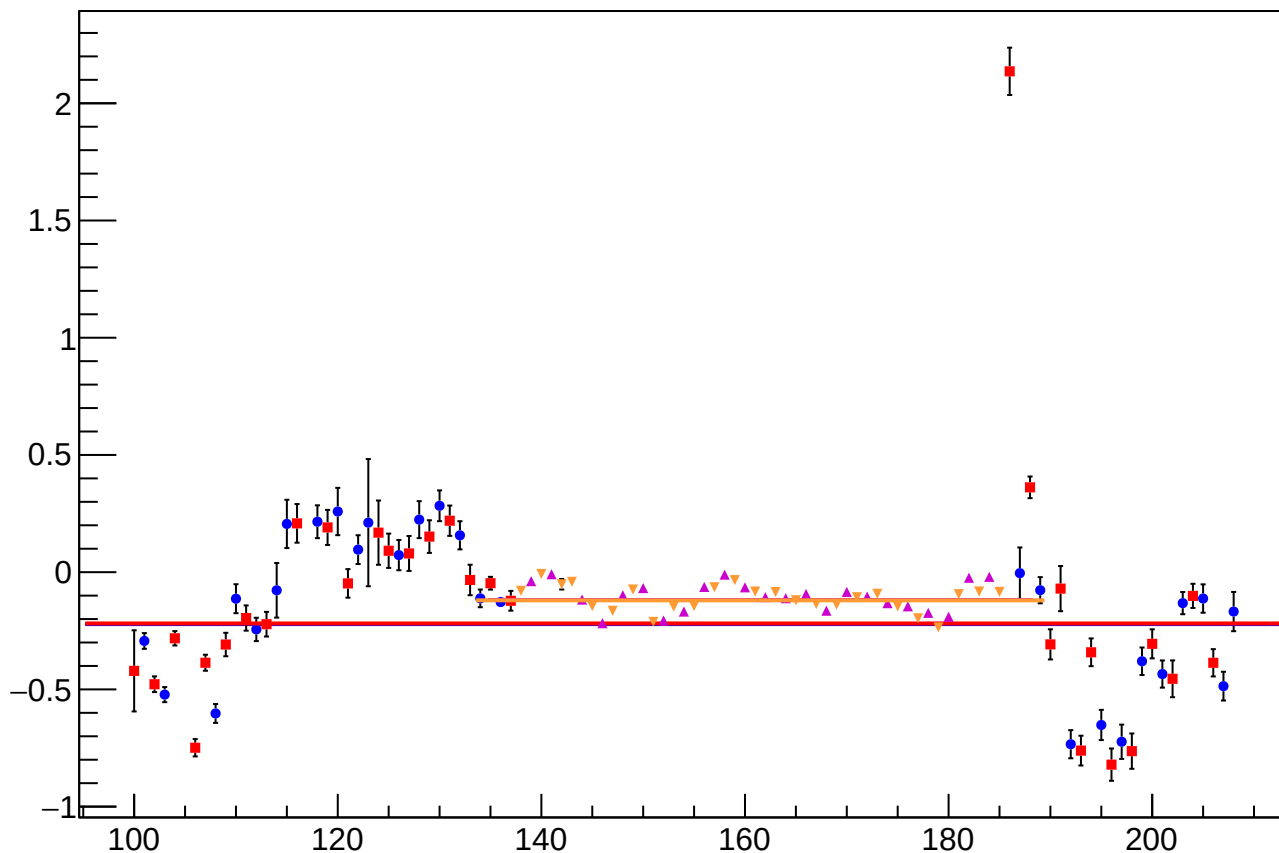
Right: 20.616 $\pm$ 0.137 χ^2 /NDF: 2130.0/58

In: 20.214 $\pm$ 0.045 χ^2 /NDF: 2791.0/50

Out: 20.169 $\pm$ 0.045 χ^2 /NDF: 2215.8/55

All: 20.191 $\pm$ 0.032 χ^2 /NDF: 5007.3/106

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.221 ± 0.010 χ^2/NDF : 697.8/27

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.219 ± 0.009 χ^2/NDF : 1470.2/30

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

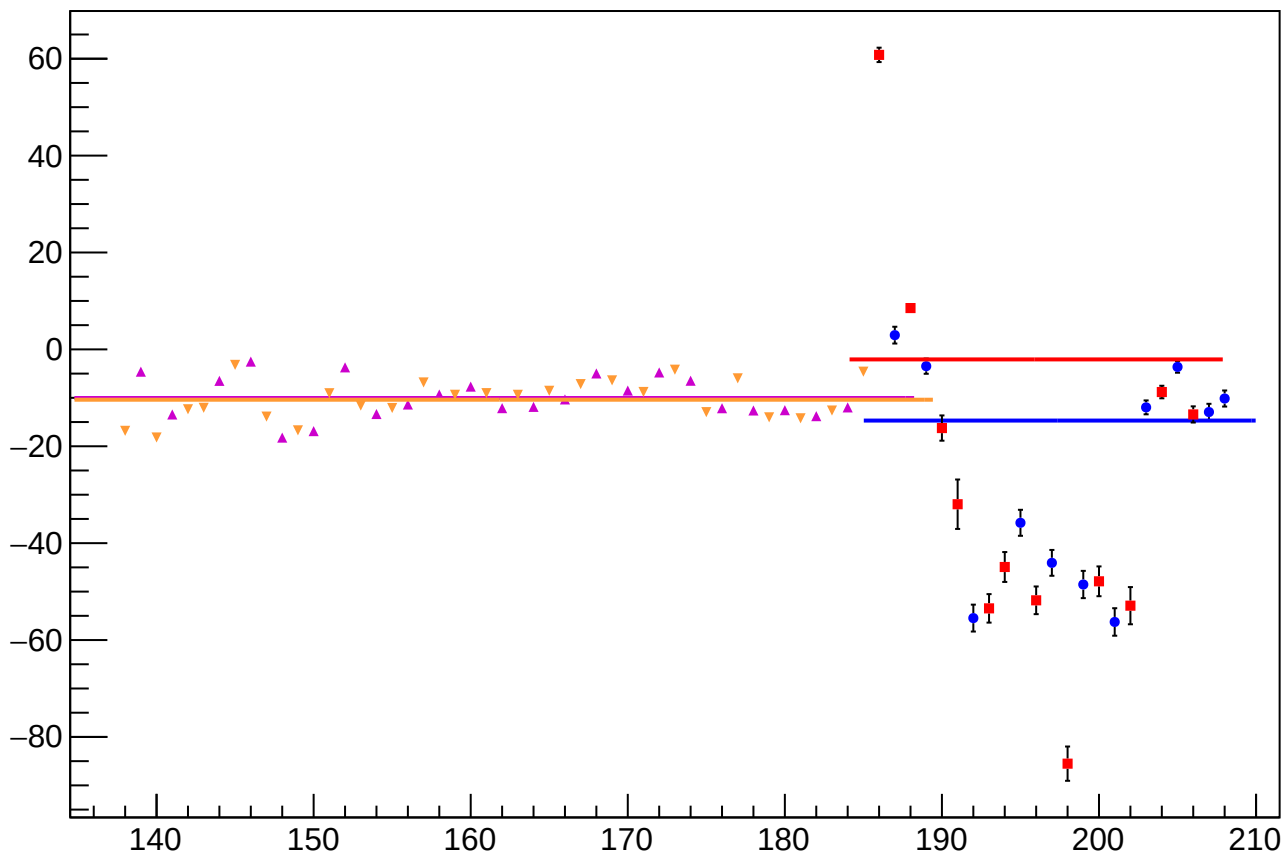
Right: -0.220 ± 0.007 χ^2/NDF : 2168.1/58

In: -0.123 ± 0.002 χ^2/NDF : 1528.2/50

Out: -0.125 ± 0.002 χ^2/NDF : 2104.9/55

All: -0.124 ± 0.001 χ^2/NDF : 3633.3/106

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.694 ± 0.551 $\chi^2/\text{NDF}: 1011.0/10$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.071 ± 0.531 $\chi^2/\text{NDF}: 3832.2/11$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

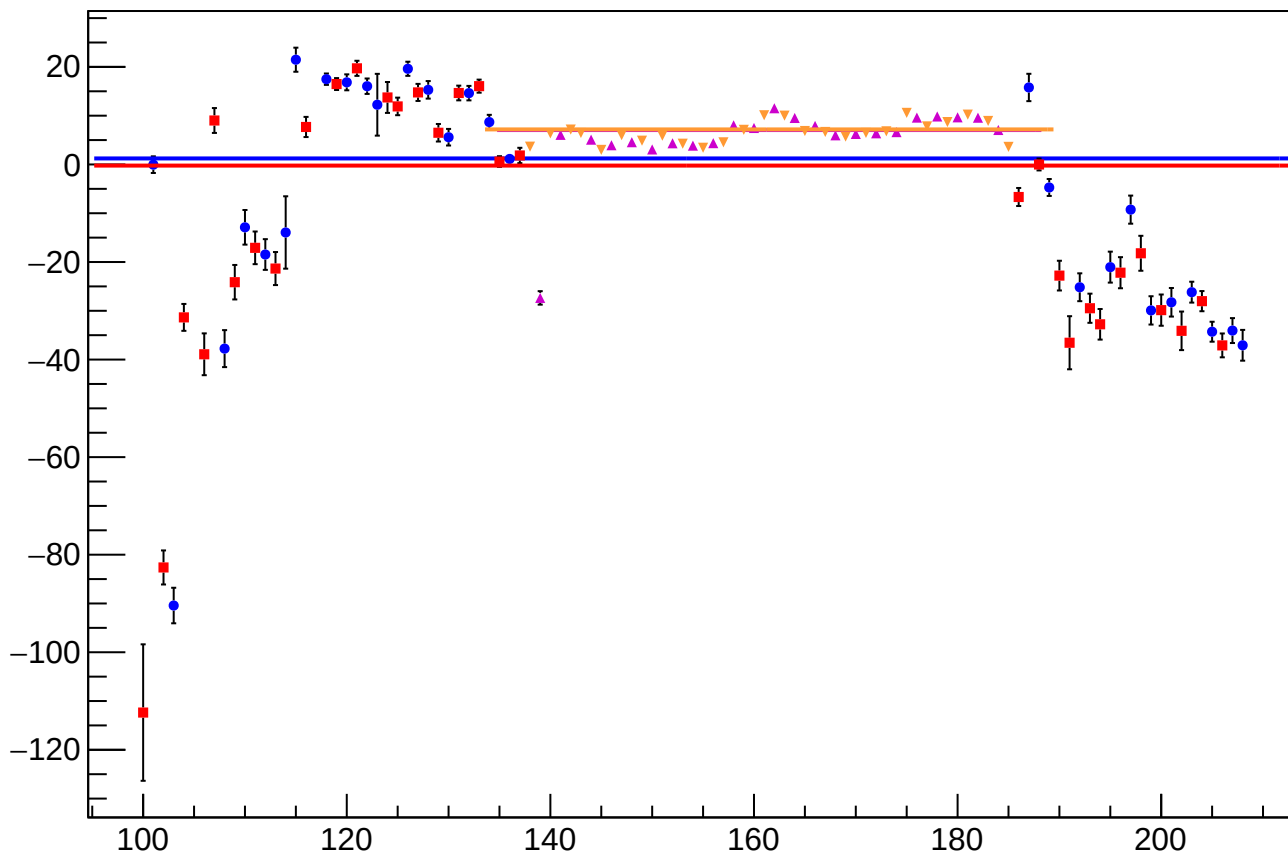
Right: -8.153 ± 0.382 $\chi^2/\text{NDF}: 5115.3/22$

In: -10.156 ± 0.088 $\chi^2/\text{NDF}: 2839.4/33$

Out: -10.169 ± 0.087 $\chi^2/\text{NDF}: 6182.6/36$

All: -10.163 ± 0.062 $\chi^2/\text{NDF}: 9022.0/70$

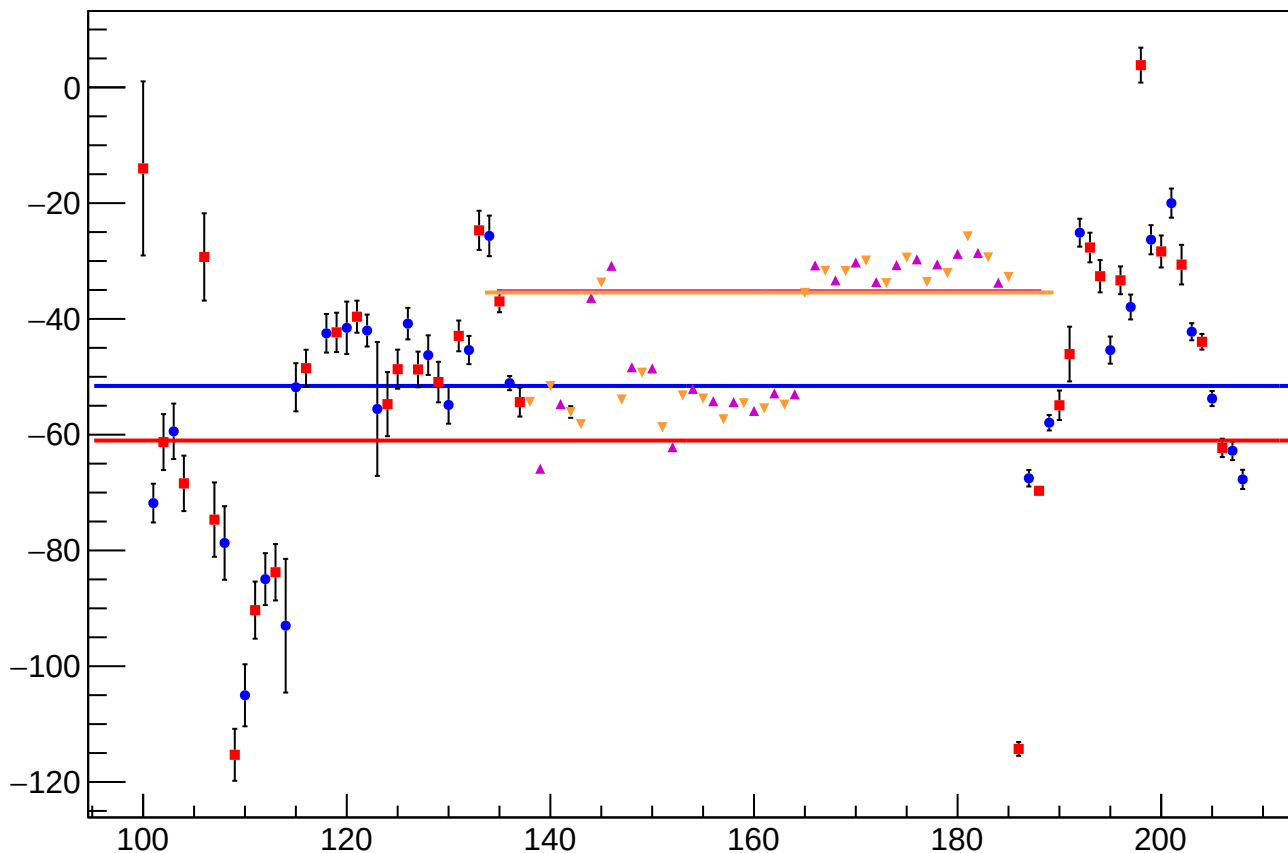
reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.235 ± 0.358 $\chi^2/\text{NDF}: 2784.8/27$
 Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$
 Right Out: -0.232 ± 0.369 $\chi^2/\text{NDF}: 2676.0/30$
 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: 0.522 ± 0.257 $\chi^2/\text{NDF}: 5468.9/58$
 In: 6.814 ± 0.073 $\chi^2/\text{NDF}: 4573.2/50$
 Out: 6.901 ± 0.072 $\chi^2/\text{NDF}: 3982.1/55$
 All: 6.858 ± 0.051 $\chi^2/\text{NDF}: 8556.1/106$

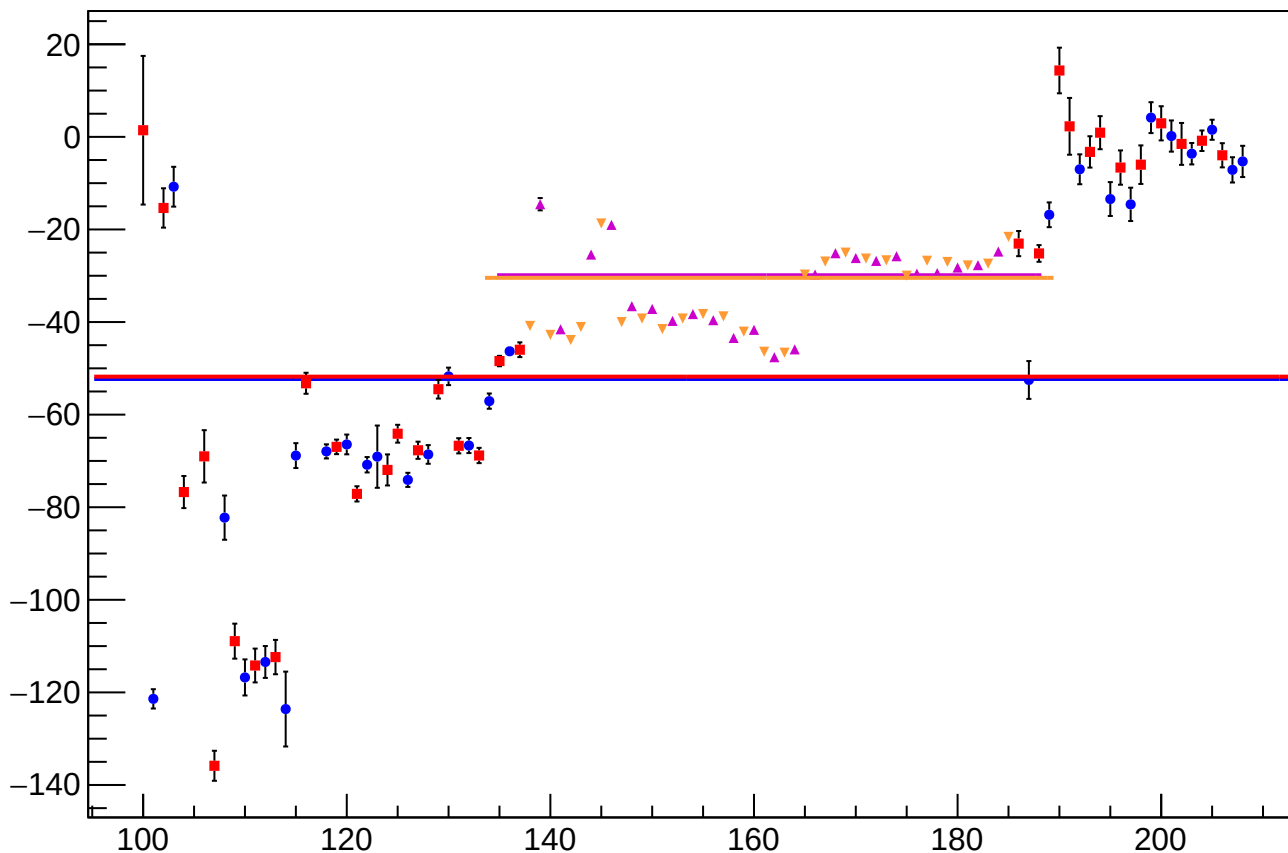
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.579 ± 0.425 χ^2/NDF : 1088.8/27
 Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24
 Right Out: -61.013 ± 0.399 χ^2/NDF : 4143.5/30
 Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47
 Right: -56.586 ± 0.291 χ^2/NDF : 5494.4/58
 In: -35.934 ± 0.088 χ^2/NDF : 14111.2/50
 Out: -36.646 ± 0.087 χ^2/NDF : 20838.1/55
 All: -36.295 ± 0.062 χ^2/NDF : 34982.4/106

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -52.297 $\pm$ 0.402 χ^2 /NDF: 5278.6/27

Left Out: -30.448 $\pm$ 0.082 χ^2 /NDF: 8167.7/24

Right Out: -51.797 $\pm$ 0.424 χ^2 /NDF: 4785.1/30

Left In: -29.892 $\pm$ 0.083 χ^2 /NDF: 7115.0/22

Left: -30.174 $\pm$ 0.058 χ^2 /NDF: 15305.7/47

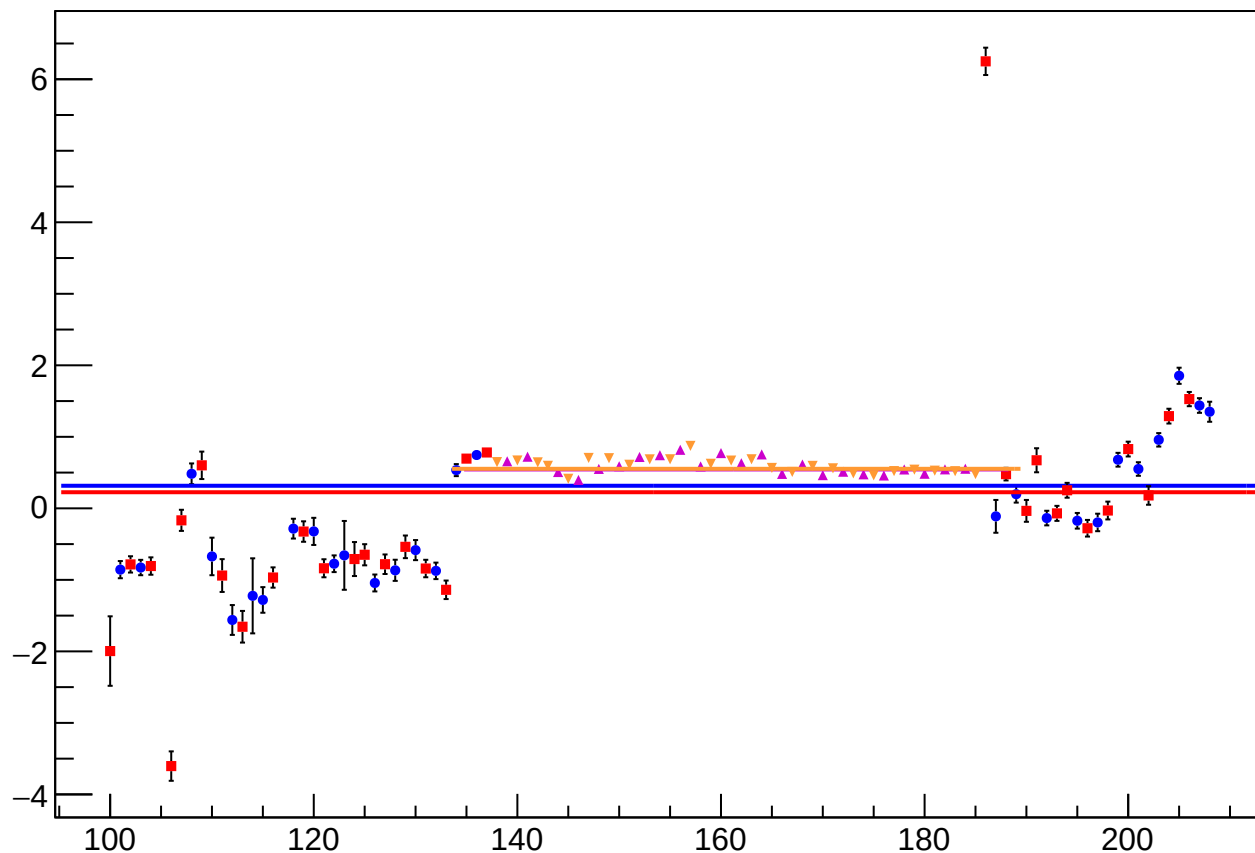
Right: -52.061 $\pm$ 0.292 χ^2 /NDF: 10064.5/58

In: -30.801 $\pm$ 0.081 χ^2 /NDF: 15380.7/50

Out: -31.208 $\pm$ 0.080 χ^2 /NDF: 15393.0/55

All: -31.006 $\pm$ 0.057 χ^2 /NDF: 30786.5/106

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.020 χ^2 /NDF: 1521.8/27

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.225 $\pm$ 0.021 χ^2 /NDF: 2629.2/30

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

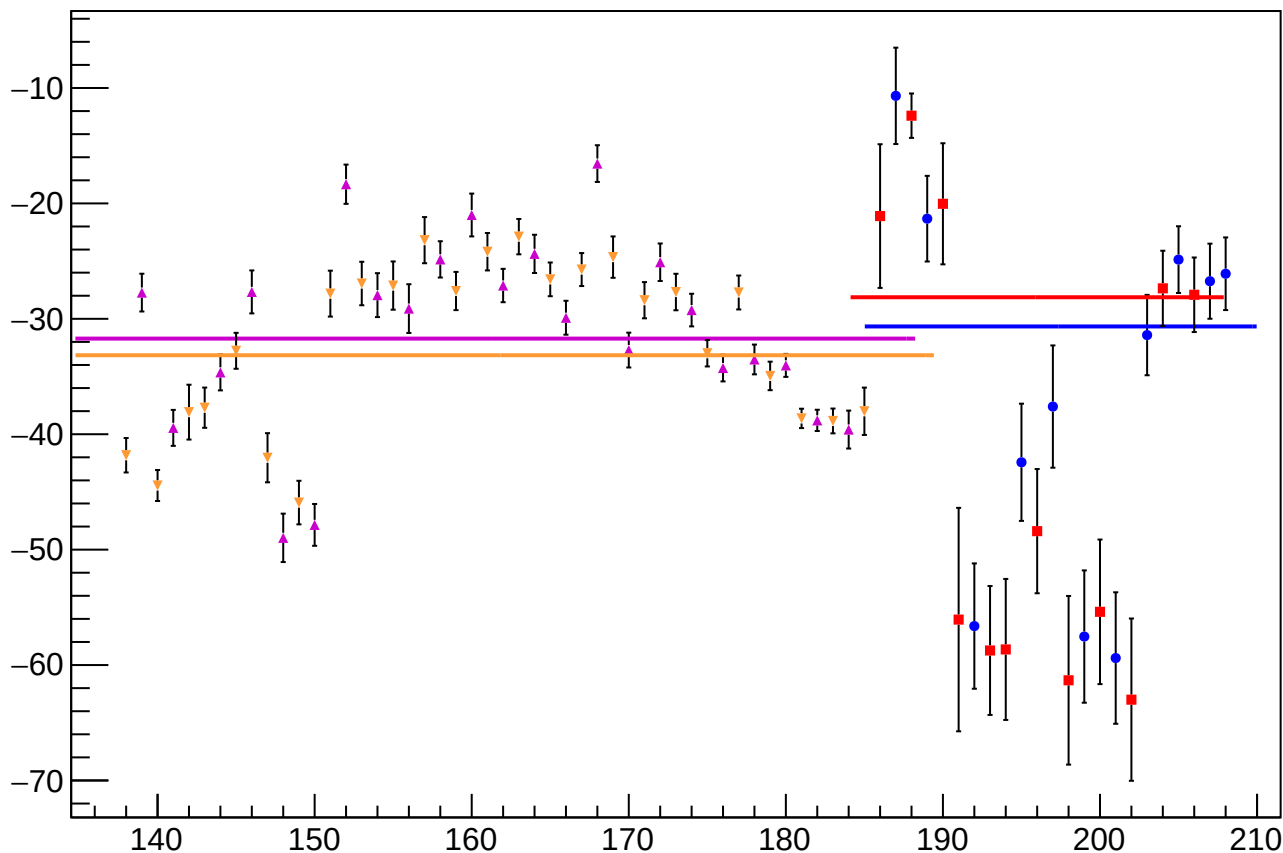
Right: 0.273 $\pm$ 0.014 χ^2 /NDF: 4161.2/58

In: 0.535 $\pm$ 0.004 χ^2 /NDF: 2308.9/50

Out: 0.543 $\pm$ 0.004 χ^2 /NDF: 3415.1/55

All: 0.539 $\pm$ 0.003 χ^2 /NDF: 5726.0/106

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.661 ± 1.198 χ^2/NDF : 114.2/10

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -28.131 ± 1.203 χ^2/NDF : 212.2/11

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

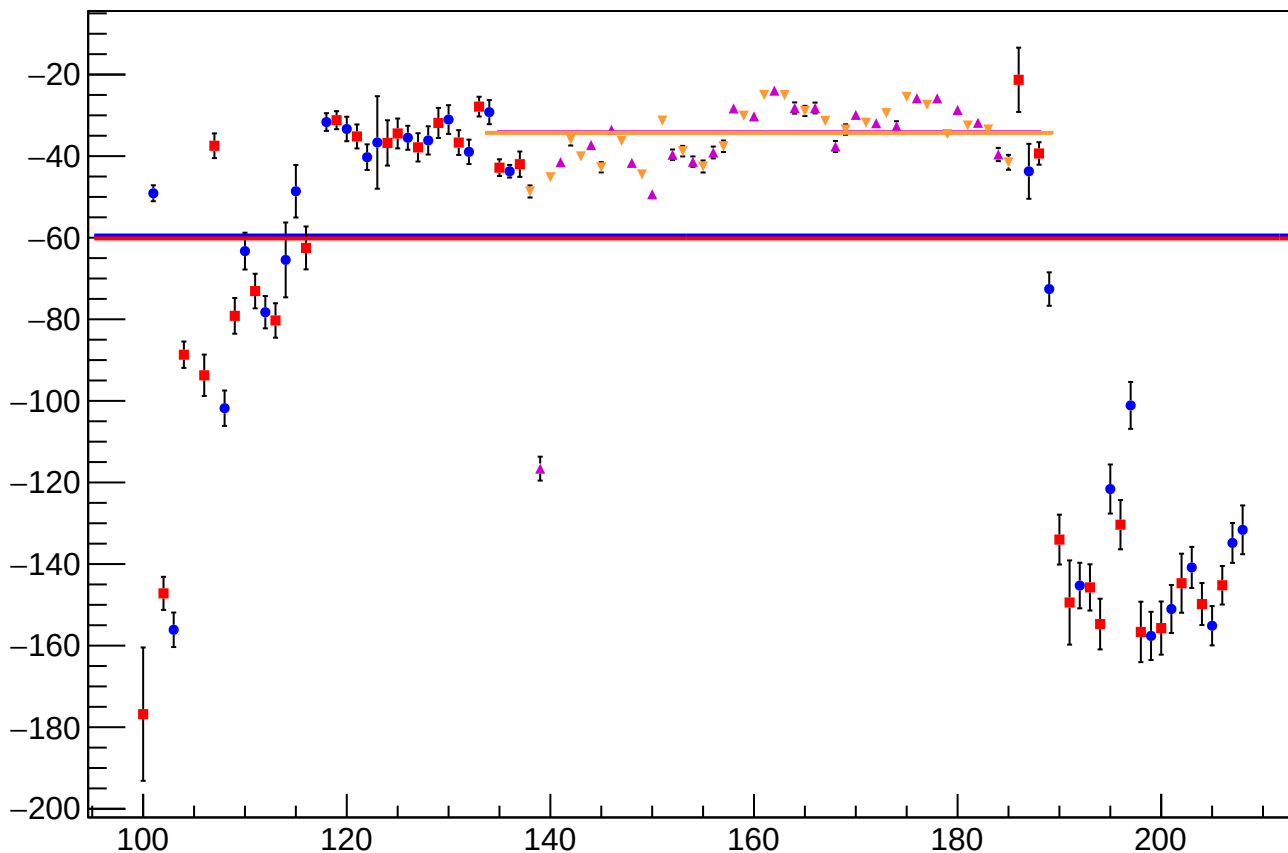
Right: -29.402 ± 0.849 χ^2/NDF : 328.7/22

In: -31.649 ± 0.299 χ^2/NDF : 657.2/33

Out: -32.862 ± 0.291 χ^2/NDF : 728.8/36

All: -32.272 ± 0.209 χ^2/NDF : 1394.4/70

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

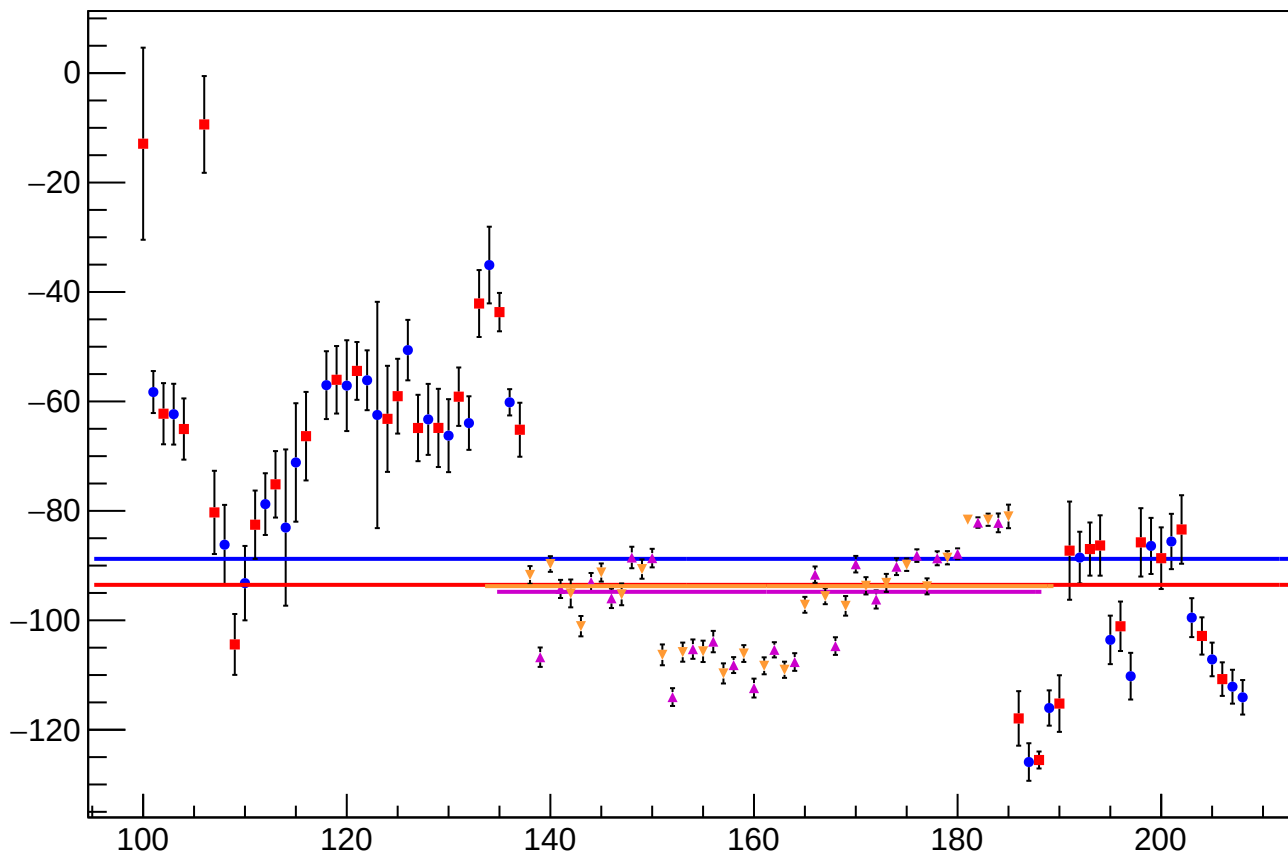
Right: -59.809 ± 0.478 $\chi^2/\text{NDF}: 6895.0/58$

In: -37.291 ± 0.235 $\chi^2/\text{NDF}: 6073.6/50$

Out: -37.139 ± 0.228 $\chi^2/\text{NDF}: 5501.3/55$

All: -37.213 ± 0.163 $\chi^2/\text{NDF}: 11575.0/106$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -88.770 ± 0.853 χ^2/NDF : 862.9/27

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -93.519 ± 0.837 χ^2/NDF : 1230.1/30

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

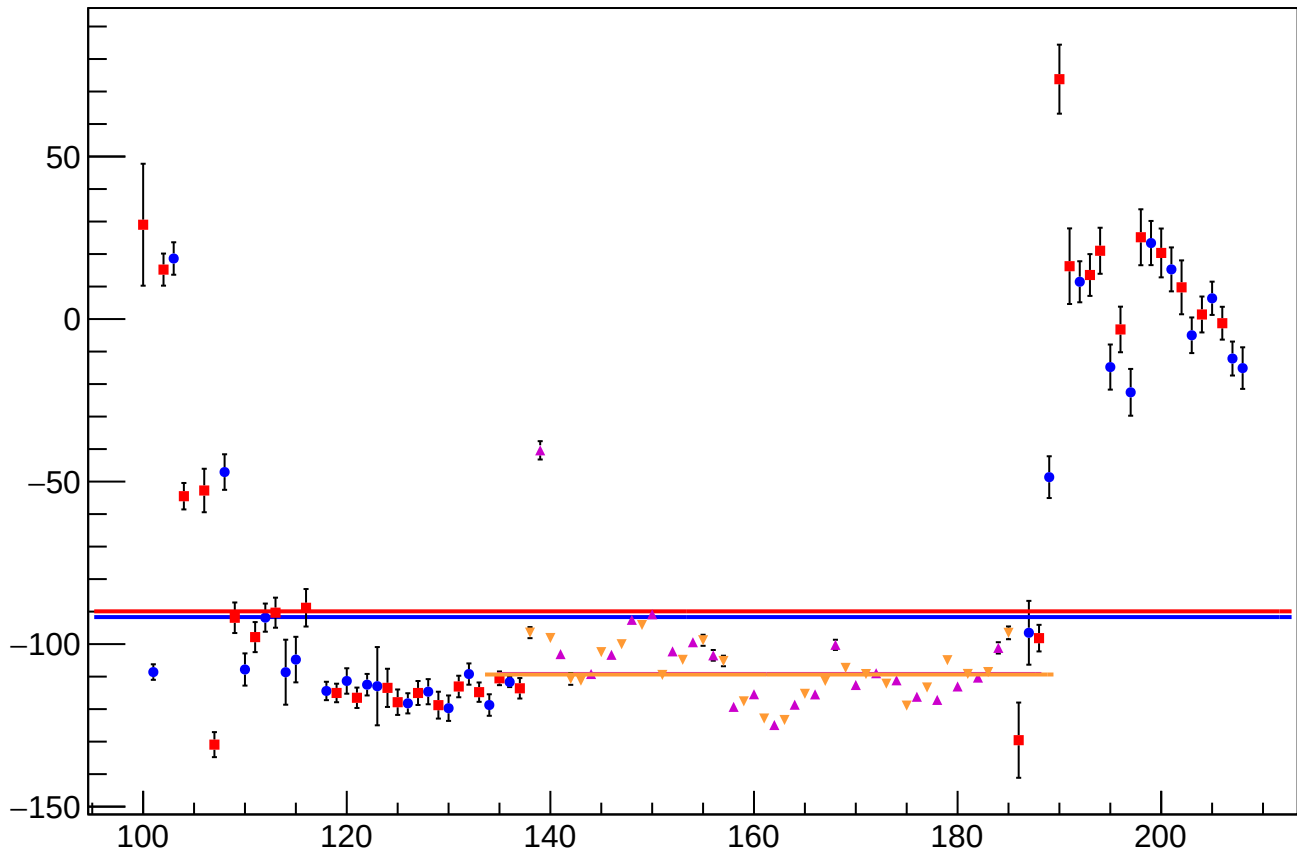
Right: -91.189 ± 0.597 χ^2/NDF : 2108.8/58

In: -94.099 ± 0.290 χ^2/NDF : 1881.8/50

Out: -93.727 ± 0.284 χ^2/NDF : 2113.2/55

All: -93.909 ± 0.203 χ^2/NDF : 3995.8/106

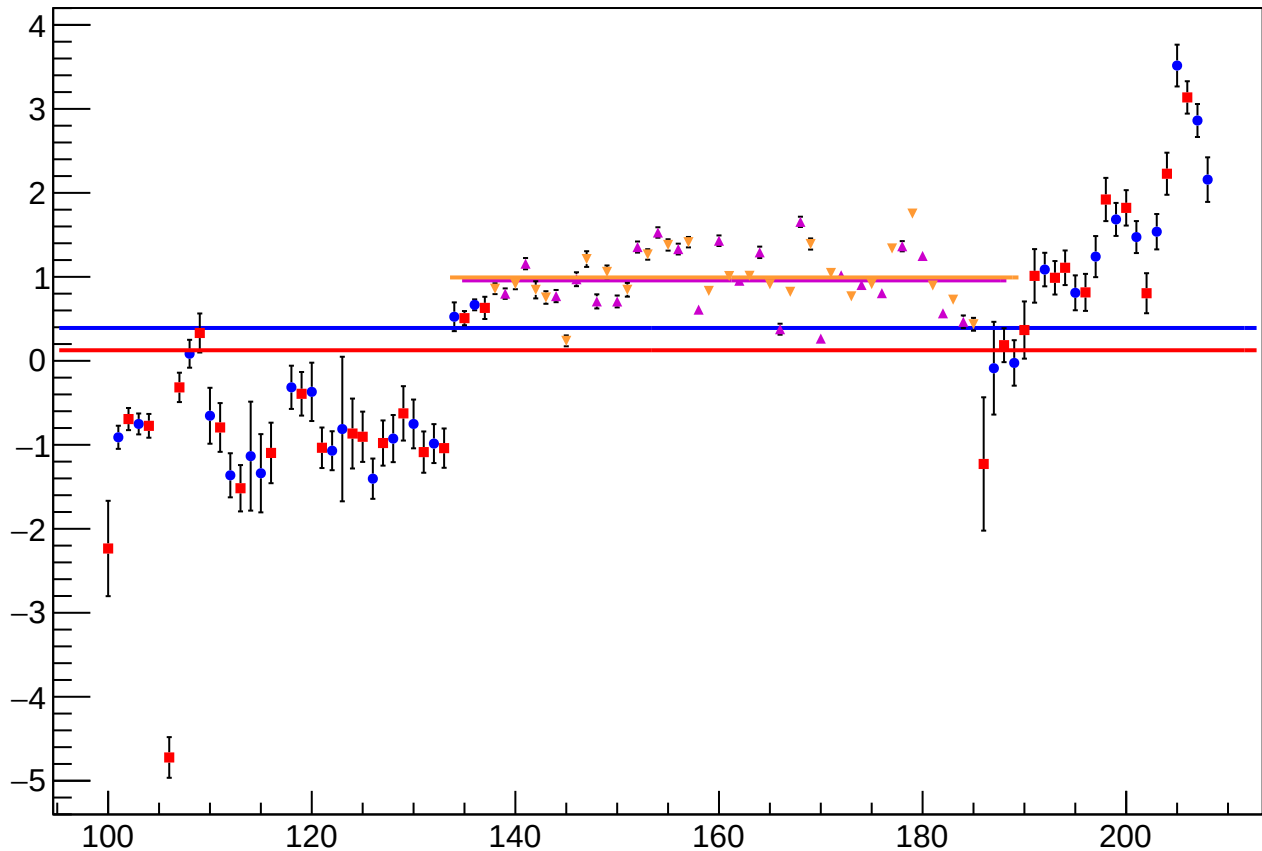
reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -91.686 ± 0.752 $\chi^2/\text{NDF}: 3230.7/27$
 Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$
 Right Out: -89.921 ± 0.788 $\chi^2/\text{NDF}: 3414.0/30$
 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: -90.845 ± 0.544 $\chi^2/\text{NDF}: 6647.4/58$
 In: -107.054 ± 0.262 $\chi^2/\text{NDF}: 5207.6/50$
 Out: -107.294 ± 0.256 $\chi^2/\text{NDF}: 4784.2/55$
 All: -107.177 ± 0.183 $\chi^2/\text{NDF}: 9992.3/106$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.391 ± 0.036 $\chi^2/\text{NDF}: 949.1/27$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.126 ± 0.037 $\chi^2/\text{NDF}: 1210.5/30$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

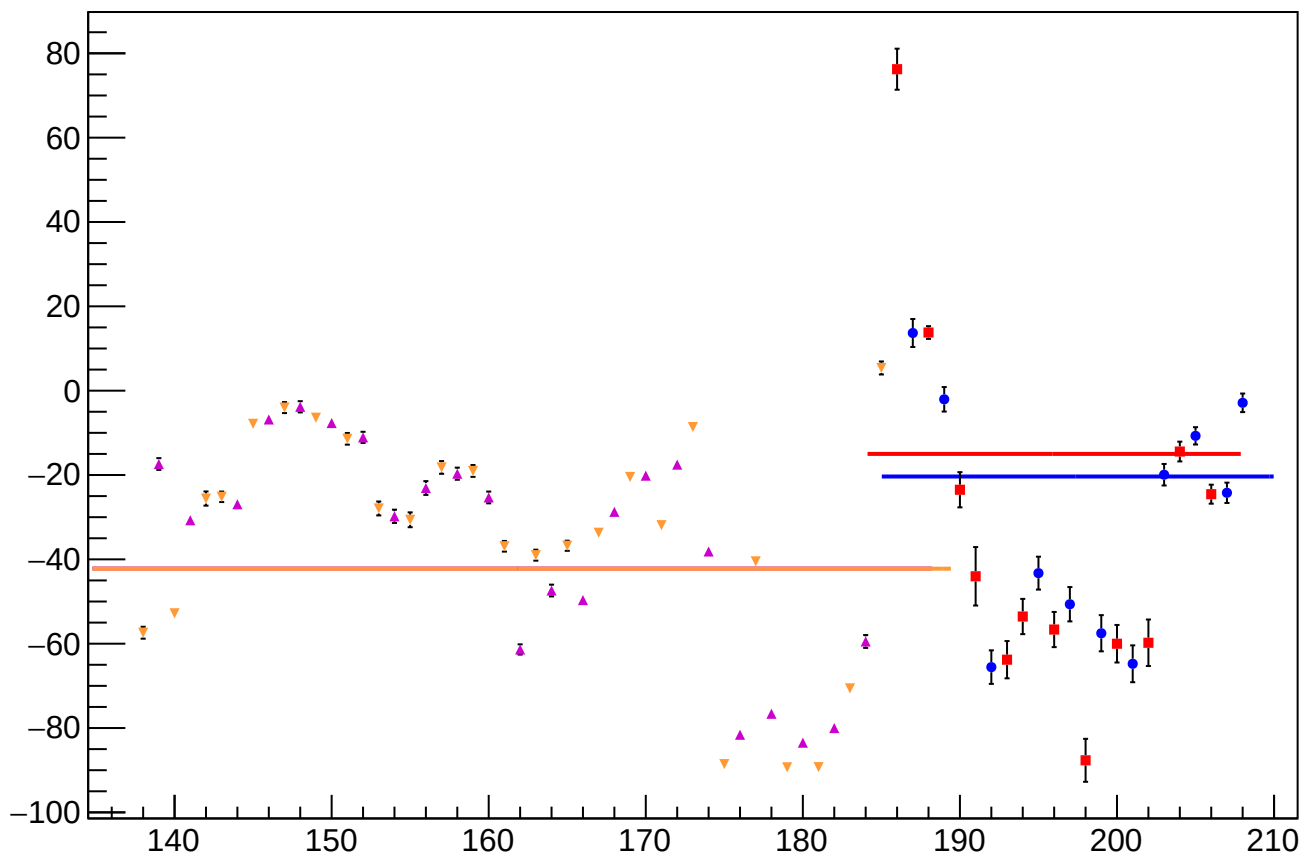
Right: 0.263 ± 0.026 $\chi^2/\text{NDF}: 2185.9/58$

In: 0.895 ± 0.012 $\chi^2/\text{NDF}: 2064.4/50$

Out: 0.906 ± 0.012 $\chi^2/\text{NDF}: 2340.8/55$

All: 0.901 ± 0.008 $\chi^2/\text{NDF}: 4405.5/106$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.354 ± 0.886 χ^2/NDF : 629.5/10

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -14.995 ± 0.903 χ^2/NDF : 1433.8/11

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

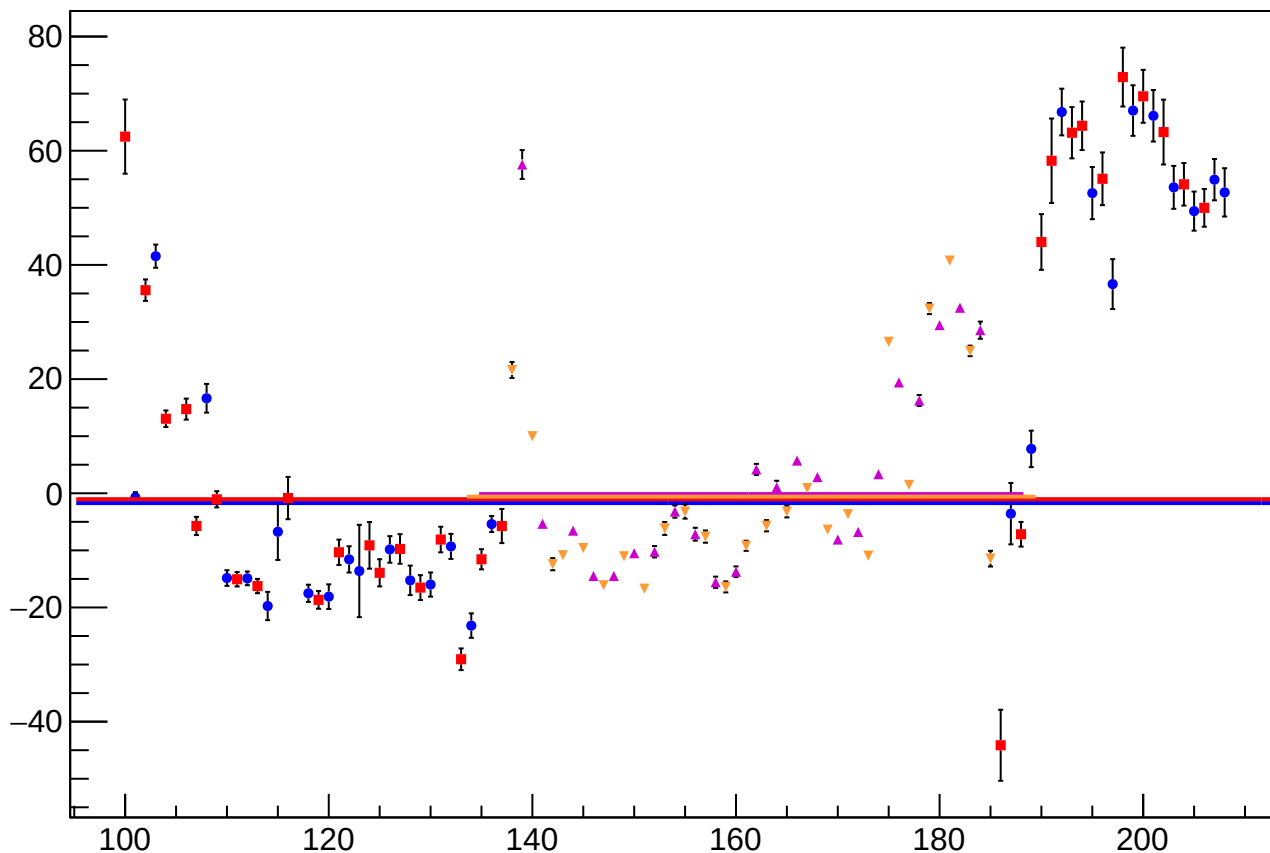
Right: -17.725 ± 0.632 χ^2/NDF : 2081.2/22

In: -40.831 ± 0.220 χ^2/NDF : 15774.7/33

Out: -40.661 ± 0.216 χ^2/NDF : 20600.1/36

All: -40.744 ± 0.154 χ^2/NDF : 36375.1/70

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.718 ± 0.406 χ^2/NDF : 2992.6/27

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: -1.037 ± 0.403 χ^2/NDF : 3246.7/30

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

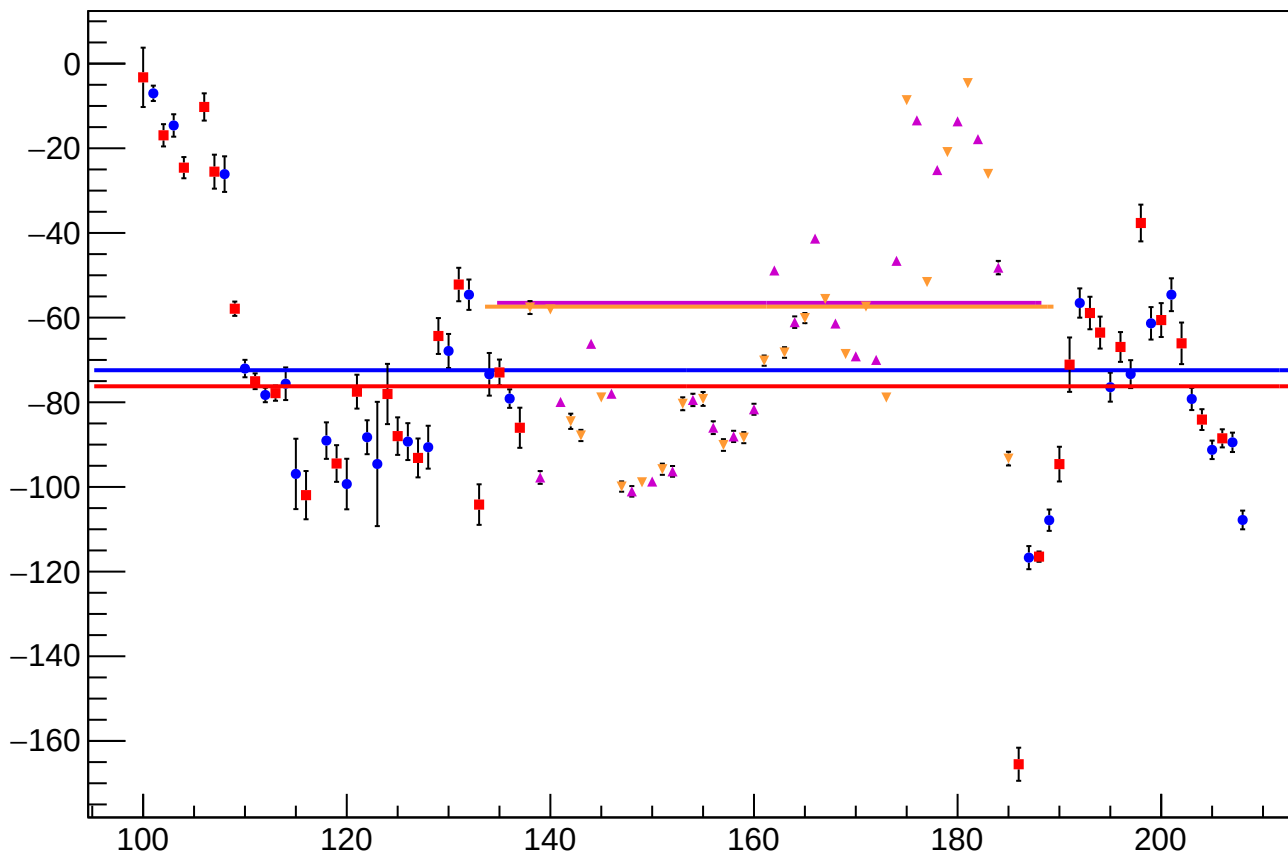
Right: -1.376 ± 0.286 χ^2/NDF : 6240.7/58

In: -0.399 ± 0.164 χ^2/NDF : 9867.7/50

Out: -0.660 ± 0.160 χ^2/NDF : 11998.6/55

All: -0.533 ± 0.114 χ^2/NDF : 21867.6/106

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.428 ± 0.556 χ^2/NDF : 2936.5/27

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -76.222 ± 0.527 χ^2/NDF : 3696.9/30

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

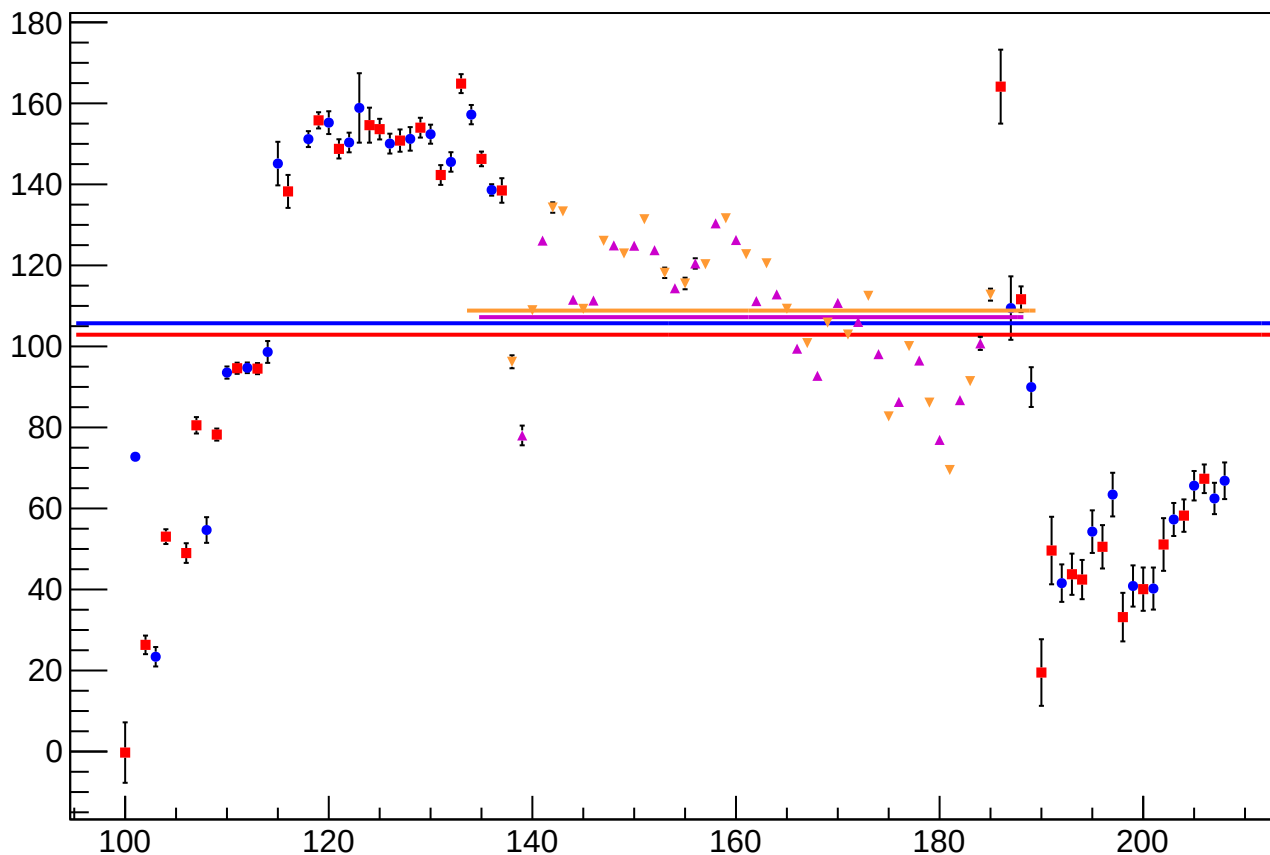
Right: -74.427 ± 0.383 χ^2/NDF : 6657.9/58

In: -58.790 ± 0.210 χ^2/NDF : 19989.8/50

Out: -60.270 ± 0.206 χ^2/NDF : 23379.6/55

All: -59.547 ± 0.147 χ^2/NDF : 43394.7/106

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 105.717 $\pm$ 0.463 χ^2 /NDF: 7130.0/27

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 102.890 $\pm$ 0.462 χ^2 /NDF: 8266.5/30

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

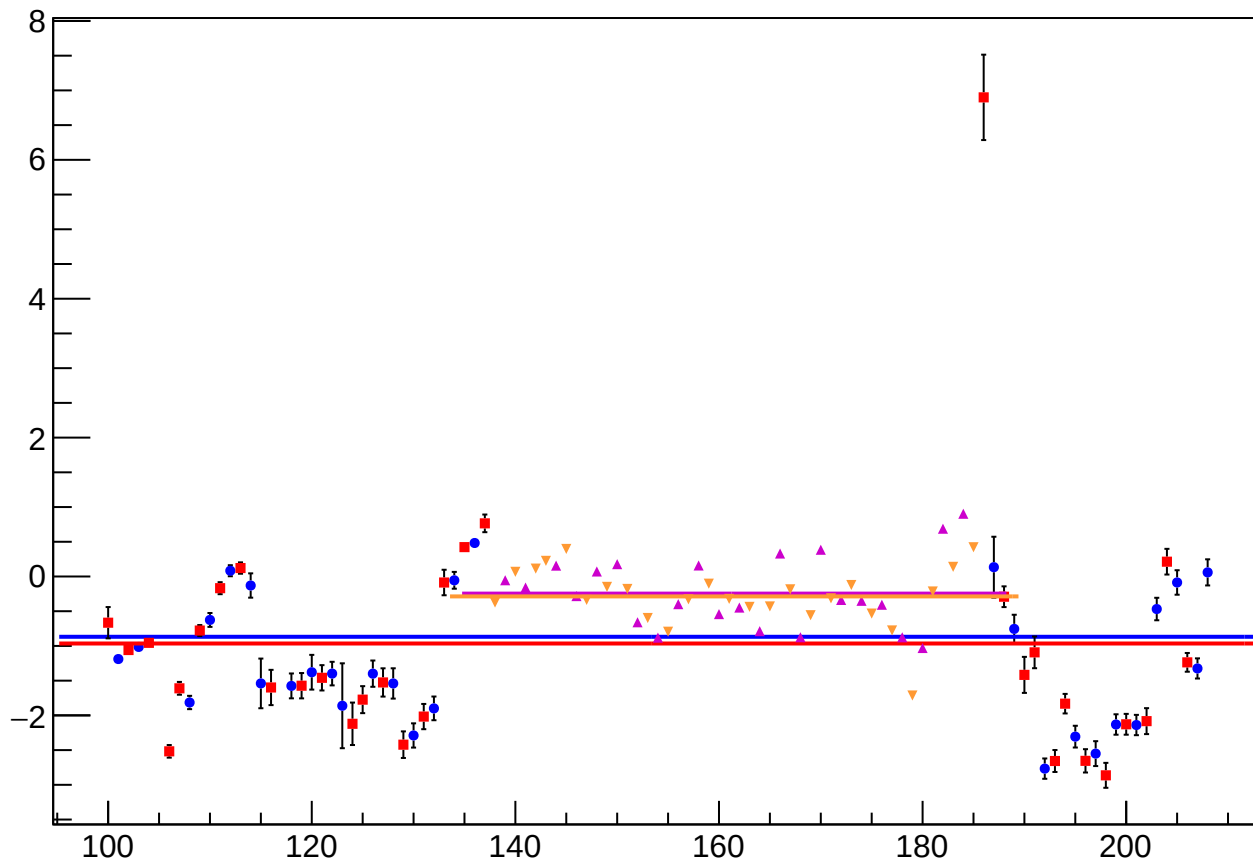
Right: 104.302 $\pm$ 0.327 χ^2 /NDF: 15415.2/58

In: 106.983 $\pm$ 0.185 χ^2 /NDF: 12704.2/50

Out: 107.928 $\pm$ 0.181 χ^2 /NDF: 15807.1/55

All: 107.466 $\pm$ 0.130 χ^2 /NDF: 28524.6/106

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.868 ± 0.023 χ^2/NDF : 1591.3/27

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.965 ± 0.022 χ^2/NDF : 2034.0/30

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

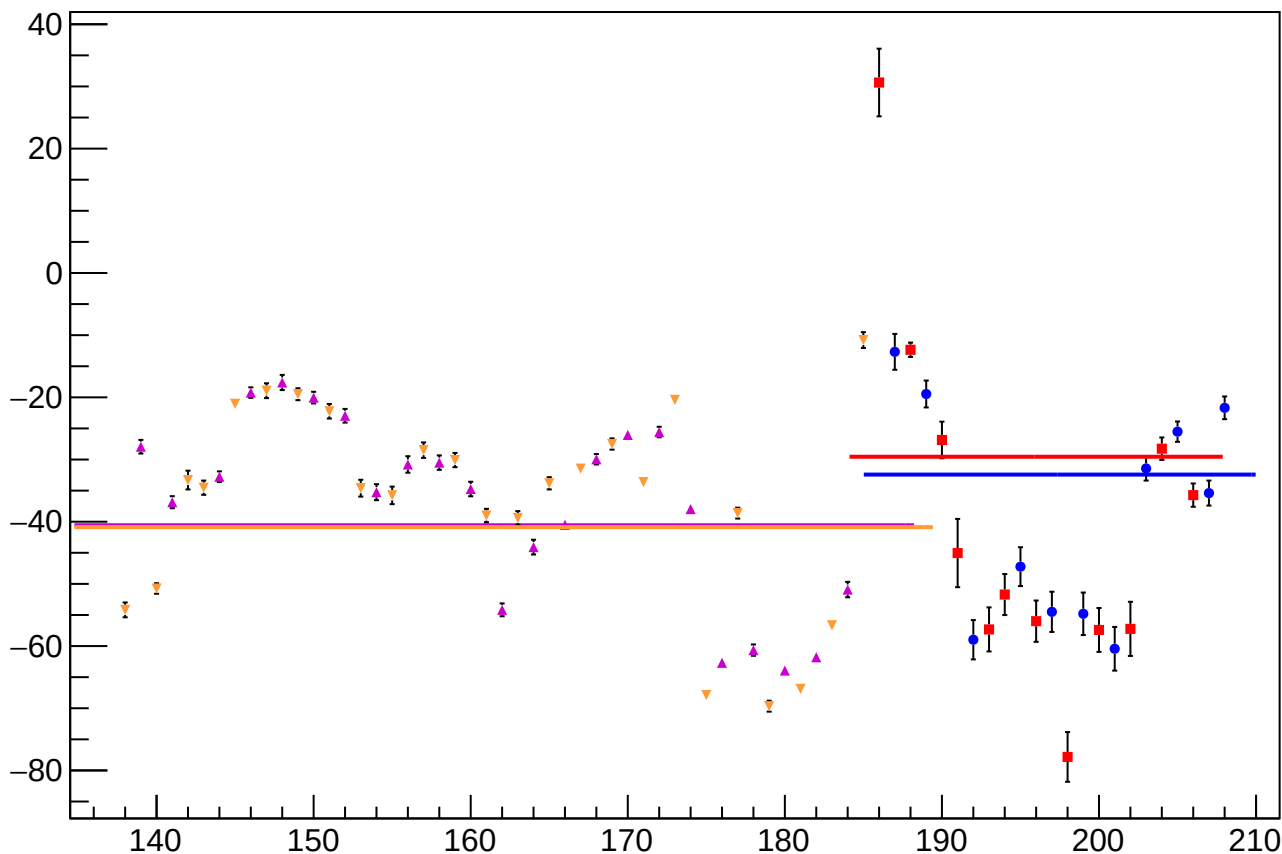
Right: -0.919 ± 0.016 χ^2/NDF : 3634.5/58

In: -0.333 ± 0.009 χ^2/NDF : 5010.7/50

Out: -0.386 ± 0.008 χ^2/NDF : 4903.0/55

All: -0.360 ± 0.006 χ^2/NDF : 9933.1/106

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.422 ± 0.710 χ^2/NDF : 383.6/10

Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24

Right Out: -29.550 ± 0.710 χ^2/NDF : 782.7/11

Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47

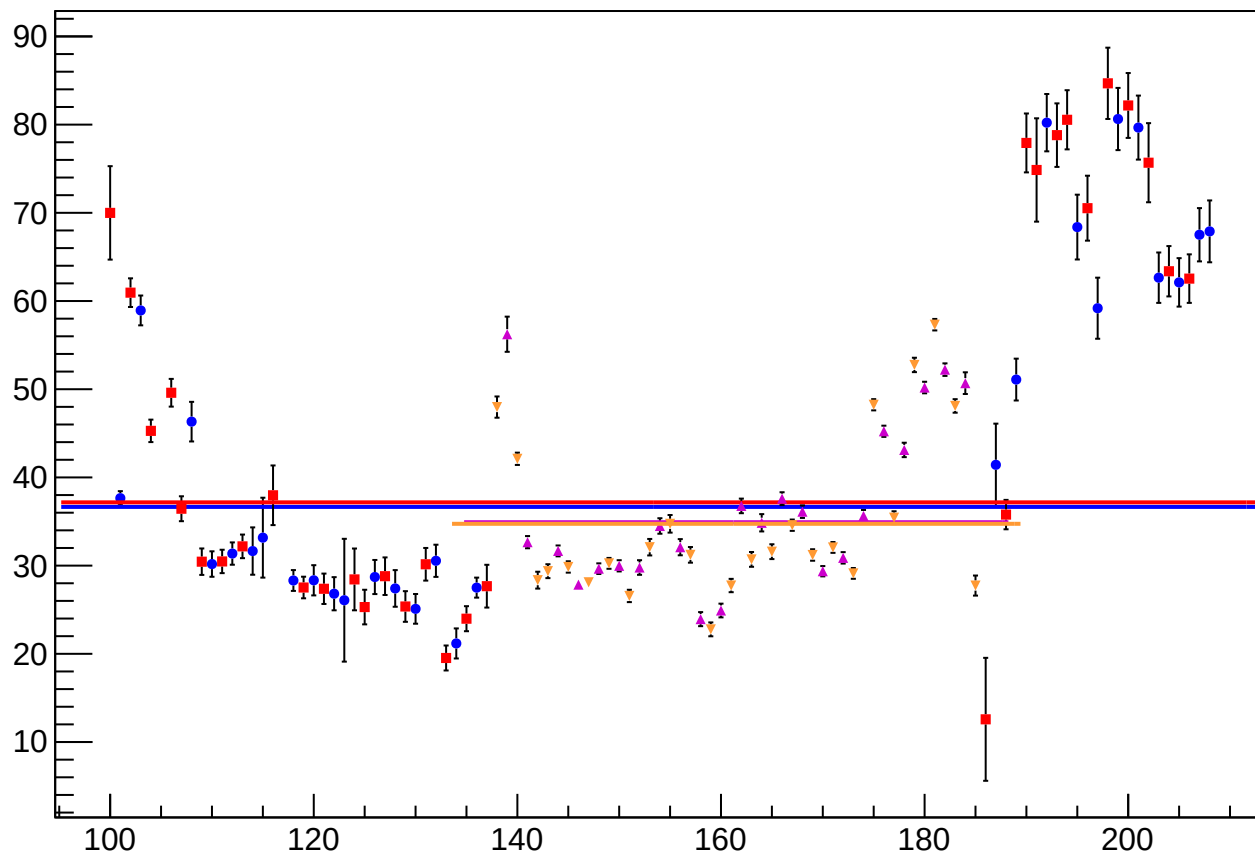
Right: -30.986 ± 0.502 χ^2/NDF : 1174.5/22

In: -40.024 ± 0.183 χ^2/NDF : 7461.0/33

Out: -40.152 ± 0.180 χ^2/NDF : 10143.9/36

All: -40.089 ± 0.129 χ^2/NDF : 17605.2/70

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 36.657 ± 0.350 $\chi^2/\text{NDF}: 1564.3/27$

Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$

Right Out: 37.173 ± 0.351 $\chi^2/\text{NDF}: 2003.2/30$

Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$

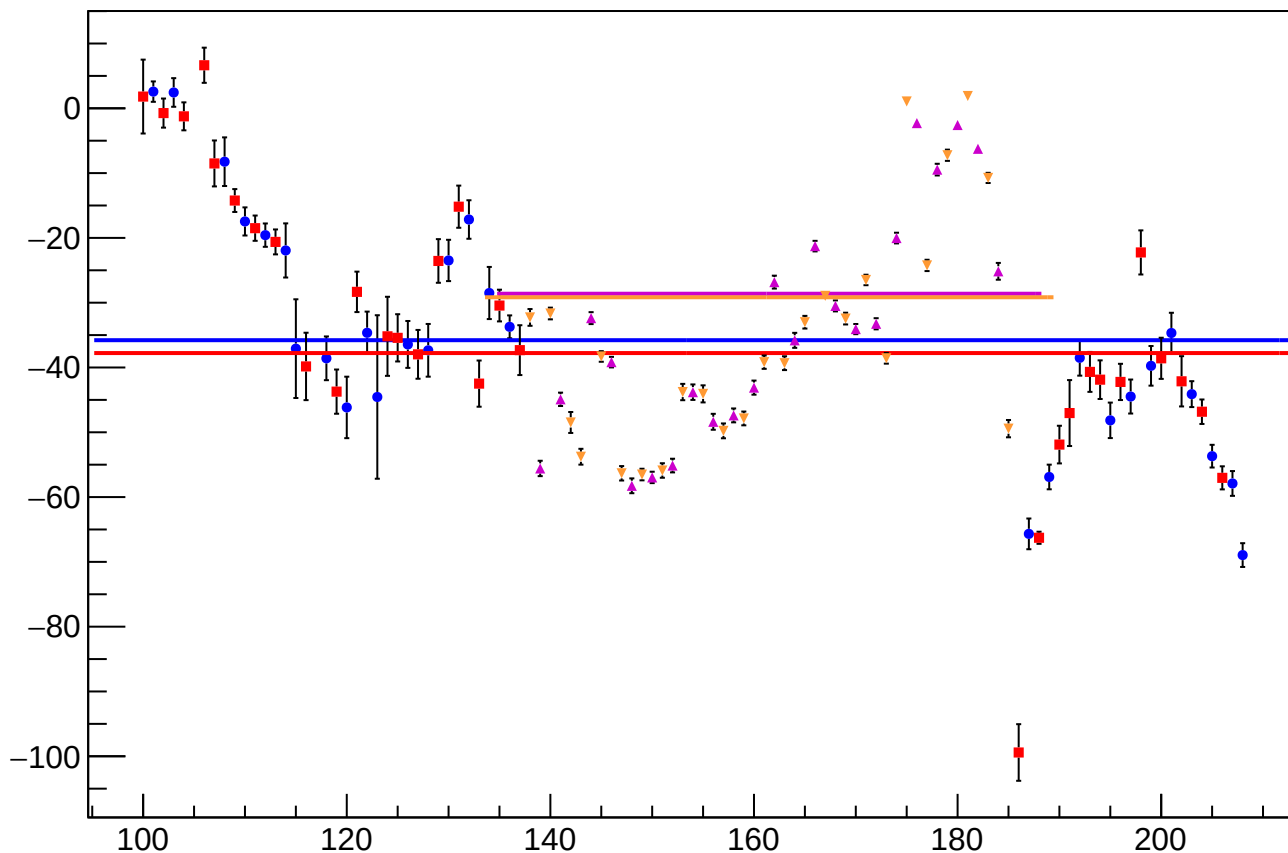
Right: 36.915 ± 0.248 $\chi^2/\text{NDF}: 3568.6/58$

In: 35.196 ± 0.139 $\chi^2/\text{NDF}: 4257.8/50$

Out: 35.106 ± 0.136 $\chi^2/\text{NDF}: 5737.2/55$

All: 35.150 ± 0.097 $\chi^2/\text{NDF}: 9995.3/106$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -35.788 ± 0.474 χ^2/NDF : 2074.7/27

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -37.773 ± 0.449 χ^2/NDF : 2712.2/30

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

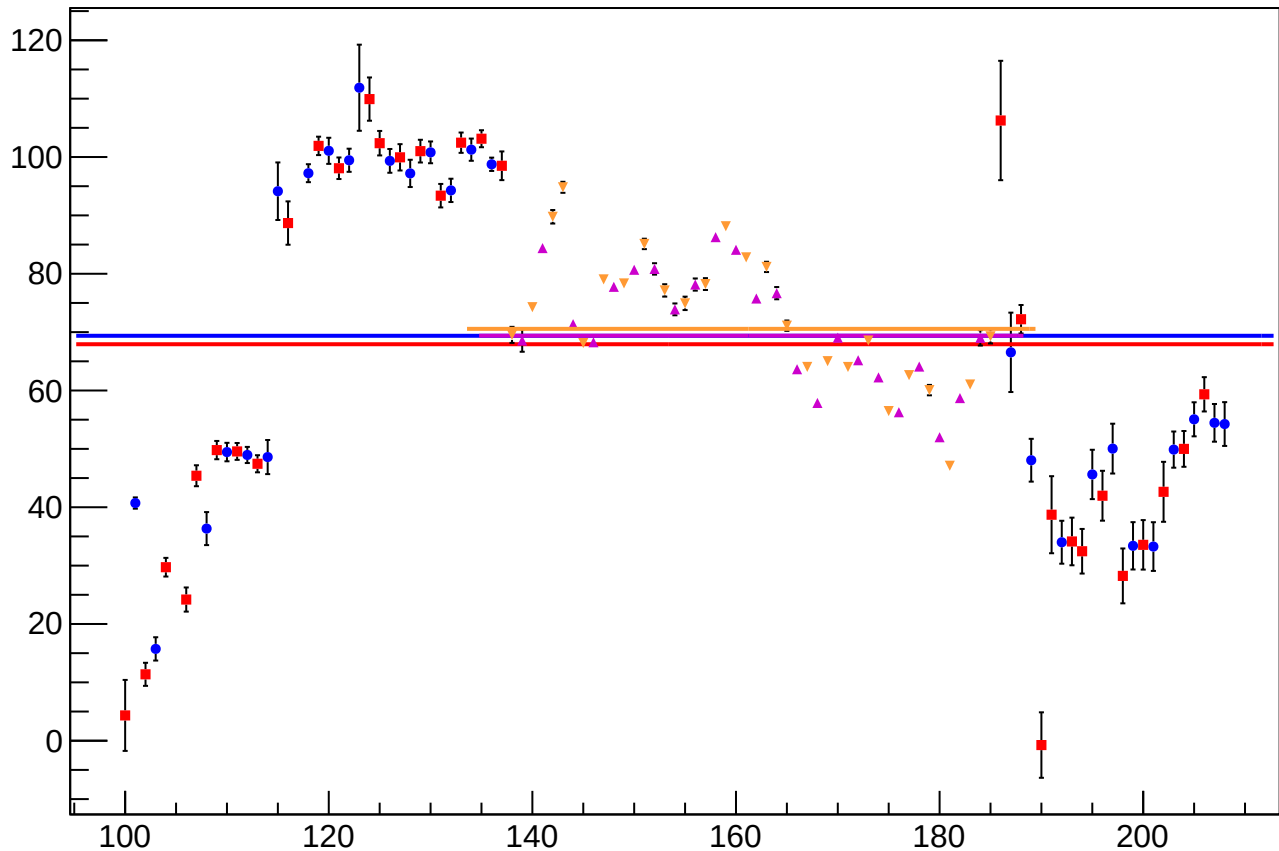
Right: -36.833 ± 0.326 χ^2/NDF : 4796.2/58

In: -29.609 ± 0.176 χ^2/NDF : 11313.2/50

Out: -30.435 ± 0.173 χ^2/NDF : 13151.4/55

All: -30.030 ± 0.123 χ^2/NDF : 24475.8/106

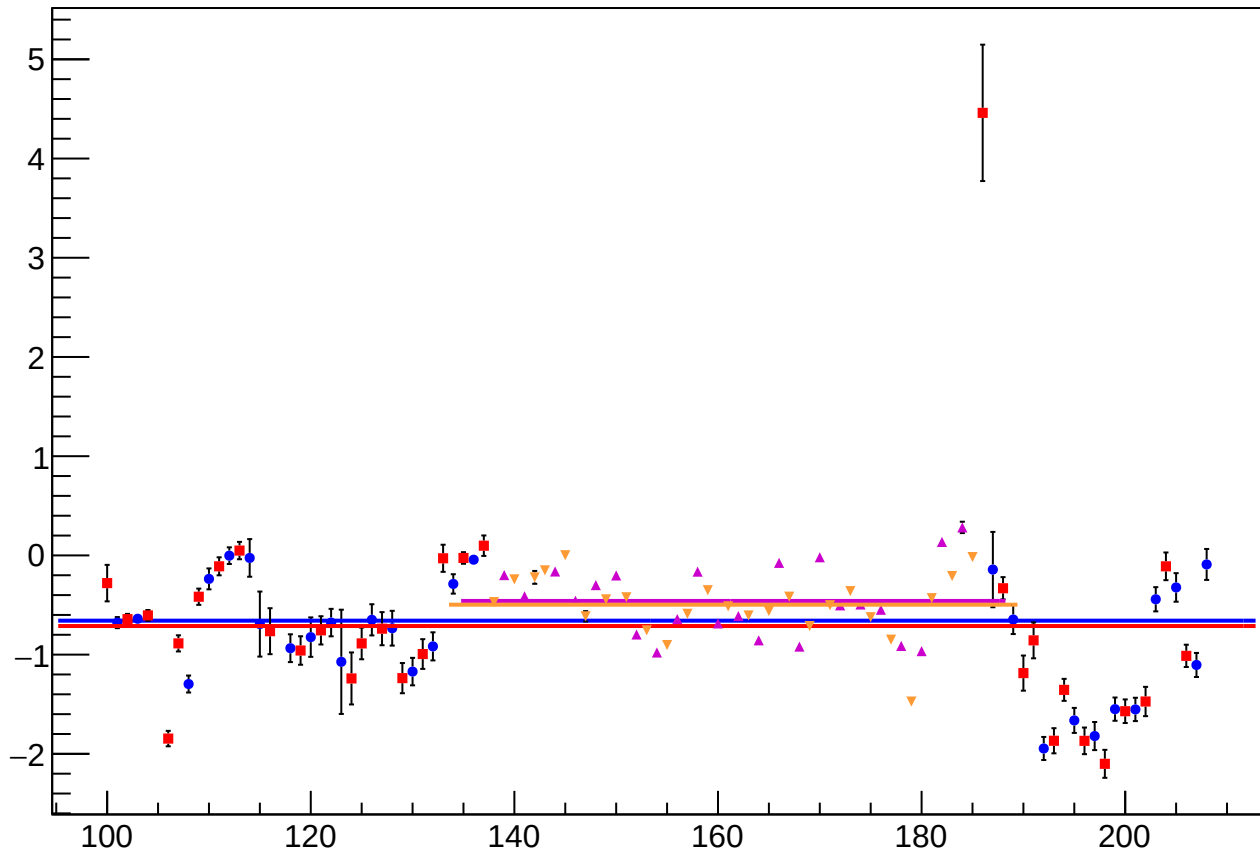
reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.375 ± 0.401 χ^2/NDF : 5159.8/27
 Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24
 Right Out: 67.927 ± 0.405 χ^2/NDF : 6120.3/30
 Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47
 Right: 68.659 ± 0.285 χ^2/NDF : 11286.5/58
 In: 69.385 ± 0.157 χ^2/NDF : 8481.6/50
 Out: 70.183 ± 0.154 χ^2/NDF : 10745.6/55
 All: 69.792 ± 0.110 χ^2/NDF : 19240.5/106

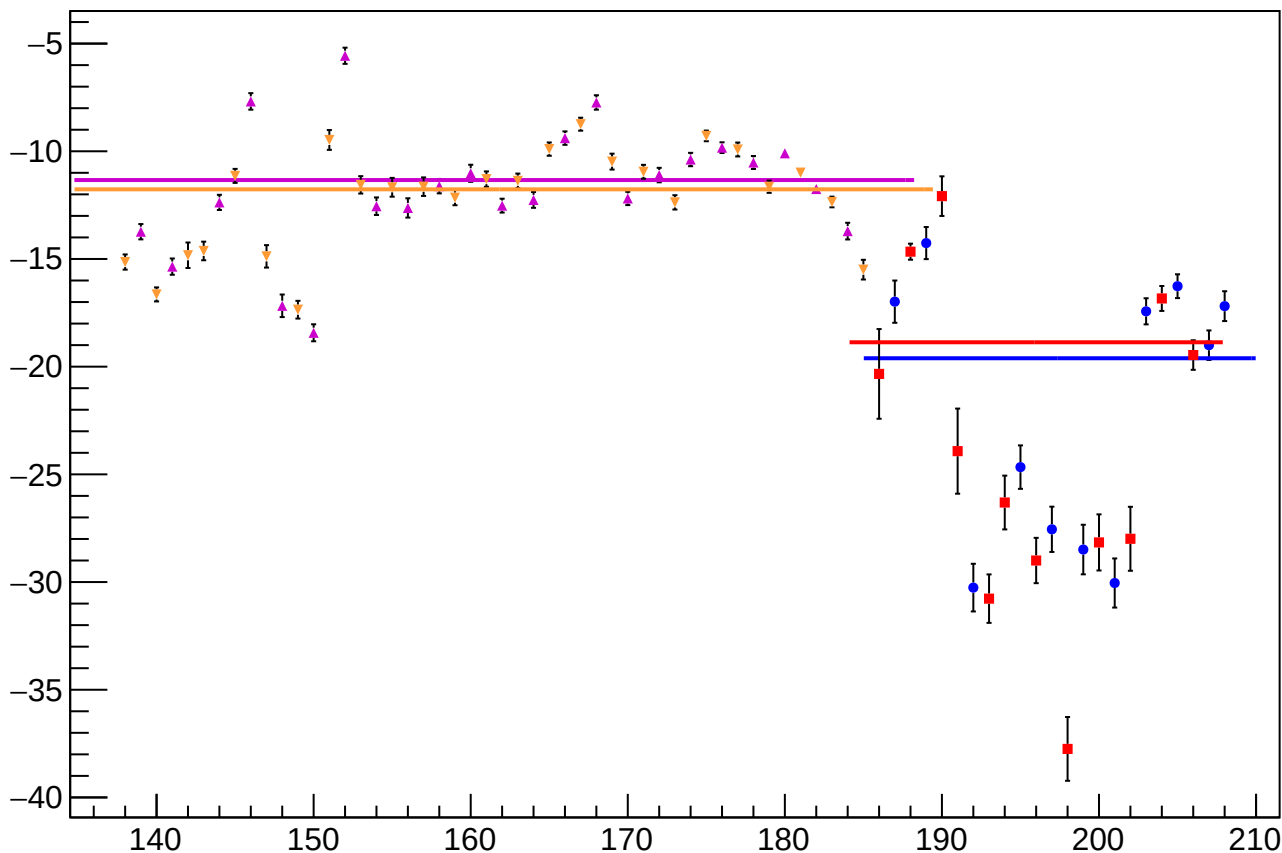
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.658 ± 0.020 χ^2/NDF : 759.5/27
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.712 ± 0.019 χ^2/NDF : 1077.7/30
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.686 ± 0.014 χ^2/NDF : 1841.2/58
 In: -0.486 ± 0.007 χ^2/NDF : 2807.2/50
 Out: -0.527 ± 0.007 χ^2/NDF : 2639.2/55
 All: -0.507 ± 0.005 χ^2/NDF : 5463.1/106

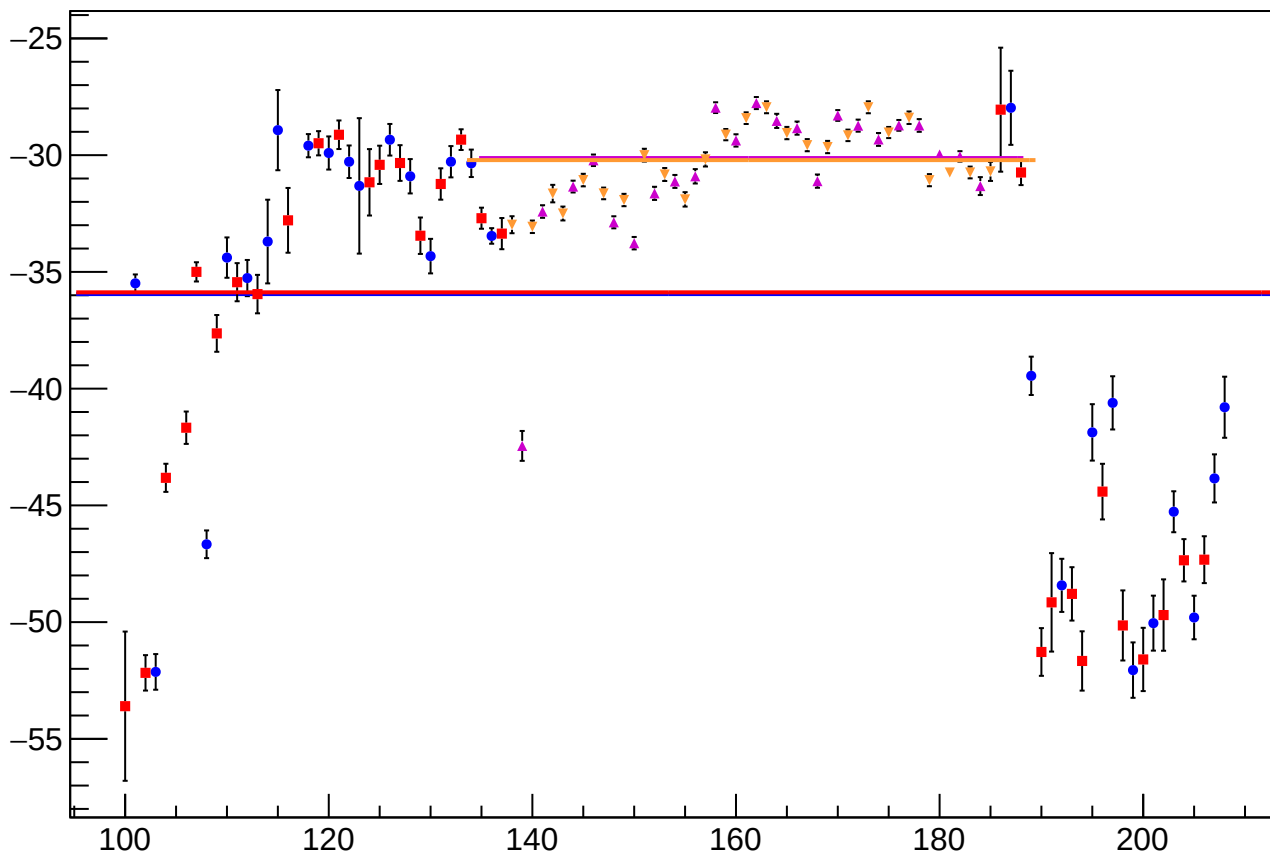
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.609 ± 0.241 χ^2/NDF : 439.4/10
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -18.868 ± 0.237 χ^2/NDF : 693.7/11
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -19.233 ± 0.169 χ^2/NDF : 1137.9/22
 In: -11.949 ± 0.065 χ^2/NDF : 2803.9/33
 Out: -12.288 ± 0.064 χ^2/NDF : 2547.5/36
 All: -12.122 ± 0.046 χ^2/NDF : 5365.1/70

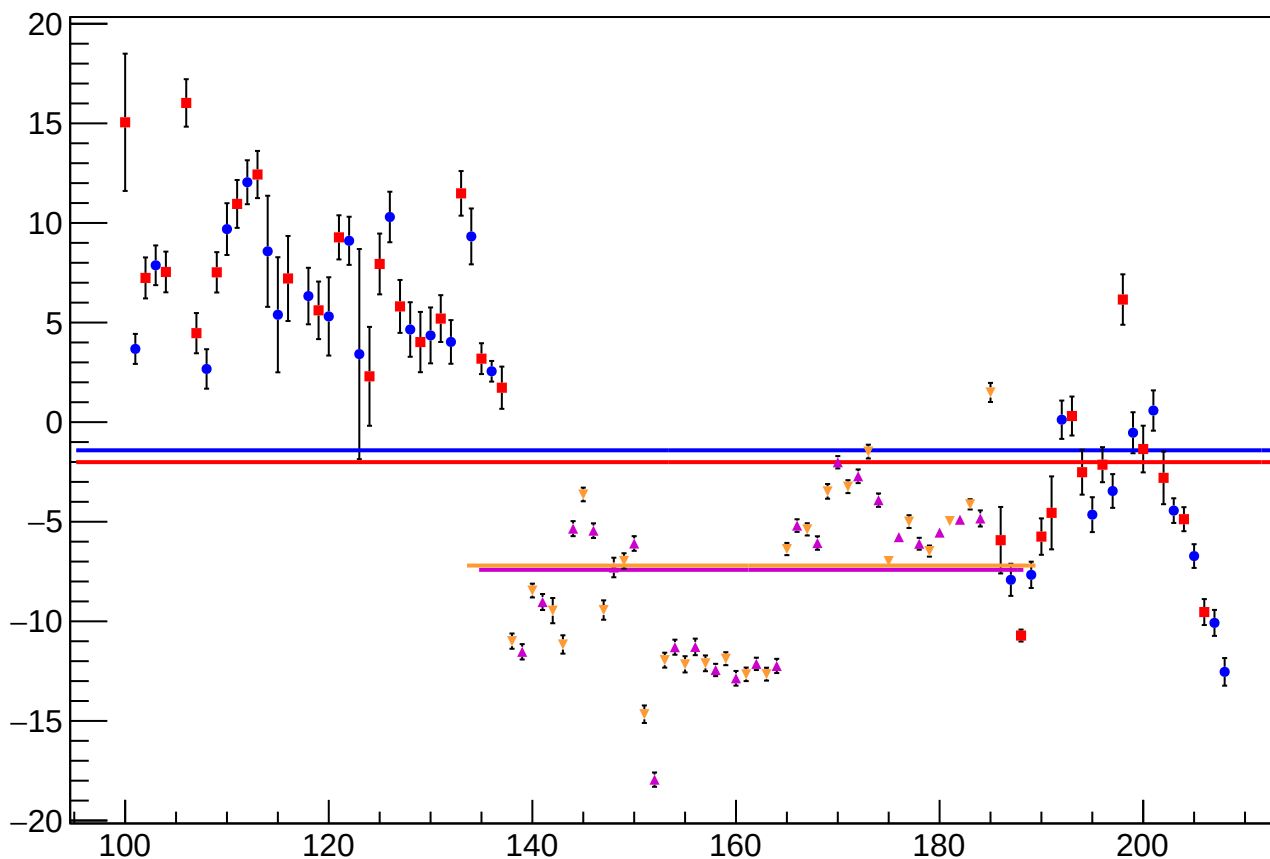
reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.950 ± 0.138 χ^2/NDF : 2407.1/27
 Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24
 Right Out: -35.875 ± 0.136 χ^2/NDF : 2767.5/30
 Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47
 Right: -35.912 ± 0.097 χ^2/NDF : 5174.8/58
 In: -30.939 ± 0.051 χ^2/NDF : 5175.1/50
 Out: -30.983 ± 0.050 χ^2/NDF : 5006.4/55
 All: -30.962 ± 0.036 χ^2/NDF : 10181.9/106

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.414 ± 0.174 χ^2/NDF : 1489.8/27

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -2.008 ± 0.166 χ^2/NDF : 2371.6/30

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

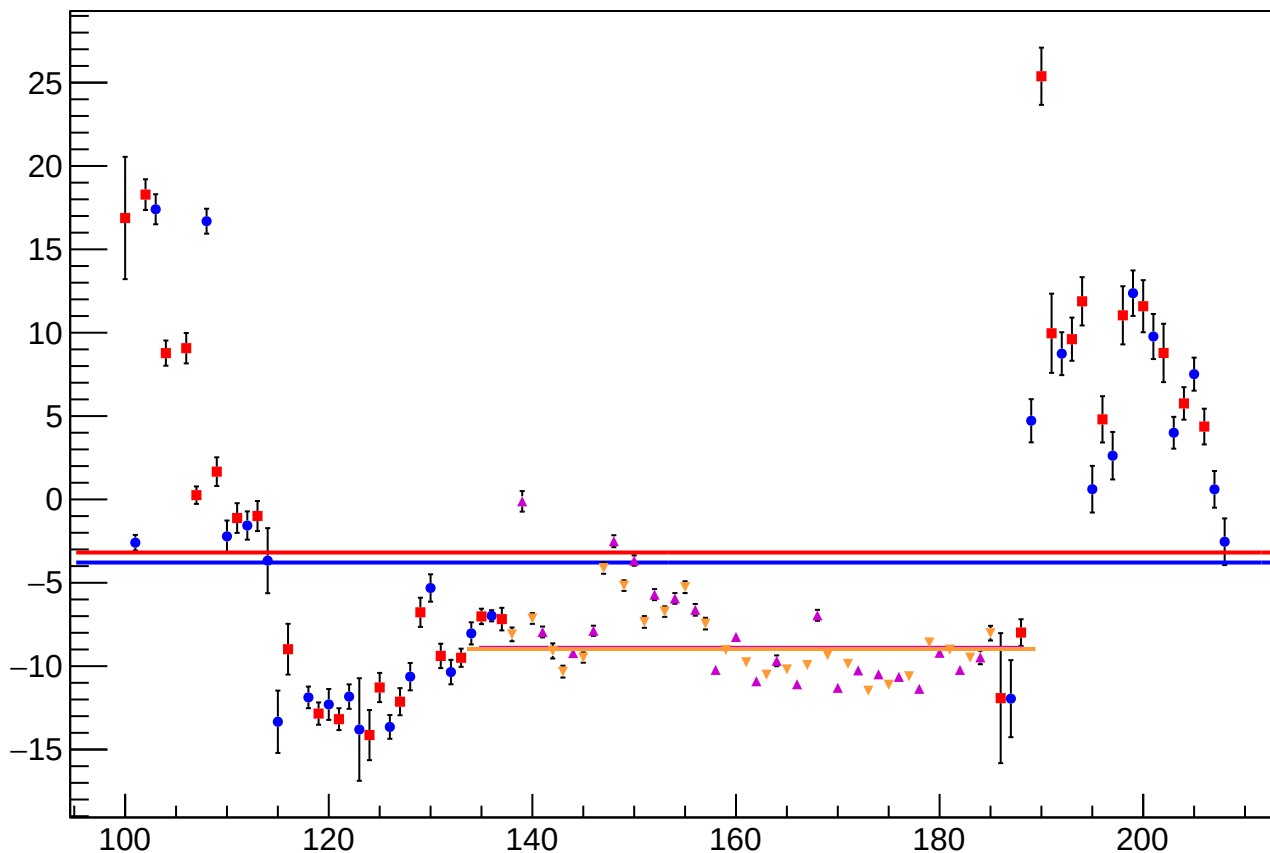
Right: -1.725 ± 0.120 χ^2/NDF : 3867.4/58

In: -6.622 ± 0.063 χ^2/NDF : 5645.7/50

Out: -6.473 ± 0.062 χ^2/NDF : 6251.1/55

All: -6.546 ± 0.044 χ^2/NDF : 11899.7/106

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.785 ± 0.156 χ^2/NDF : 2826.4/27

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -3.183 ± 0.158 χ^2/NDF : 3058.2/30

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

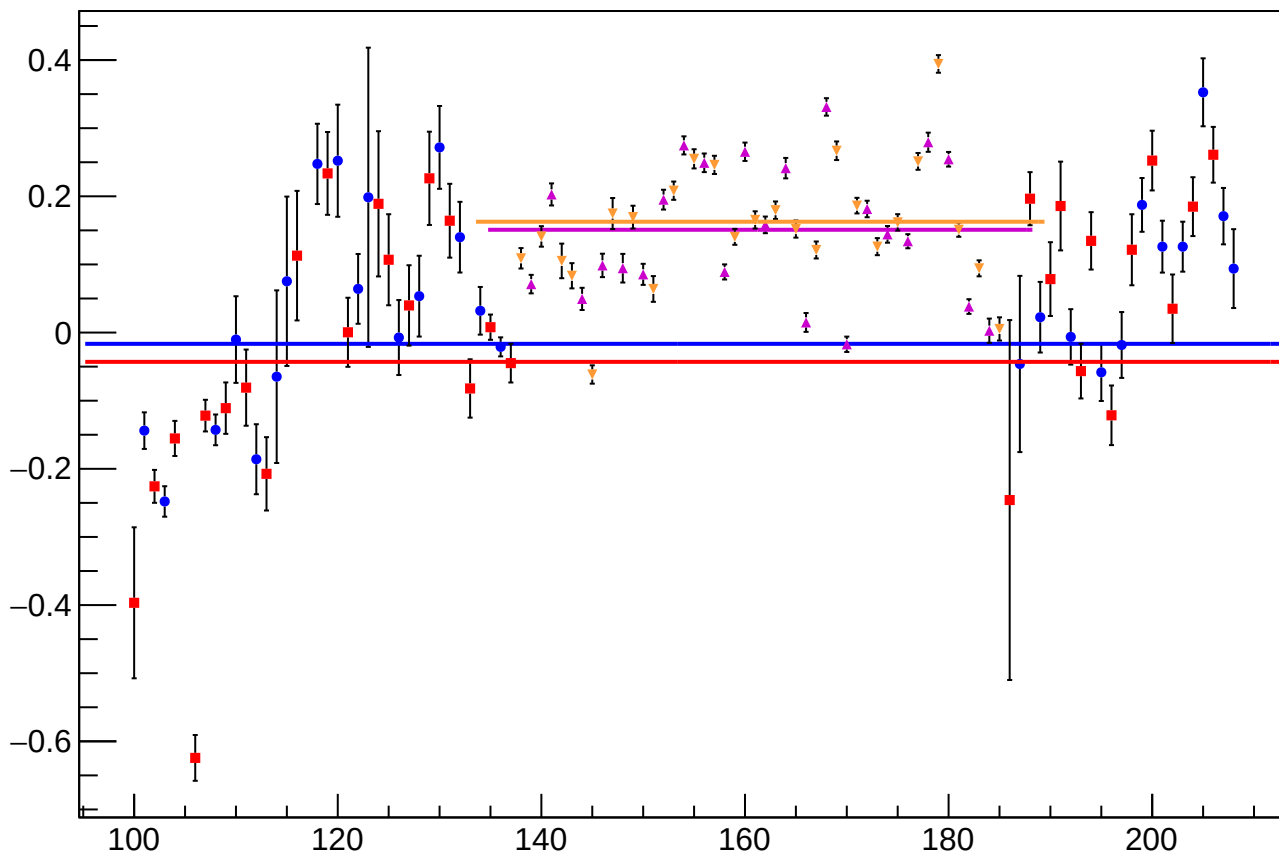
Right: -3.488 ± 0.111 χ^2/NDF : 5892.0/58

In: -8.209 ± 0.057 χ^2/NDF : 5290.7/50

Out: -8.237 ± 0.056 χ^2/NDF : 5108.9/55

All: -8.223 ± 0.040 χ^2/NDF : 10399.7/106

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.017 ± 0.007 χ^2/NDF : 378.2/27

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.043 ± 0.007 χ^2/NDF : 702.2/30

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

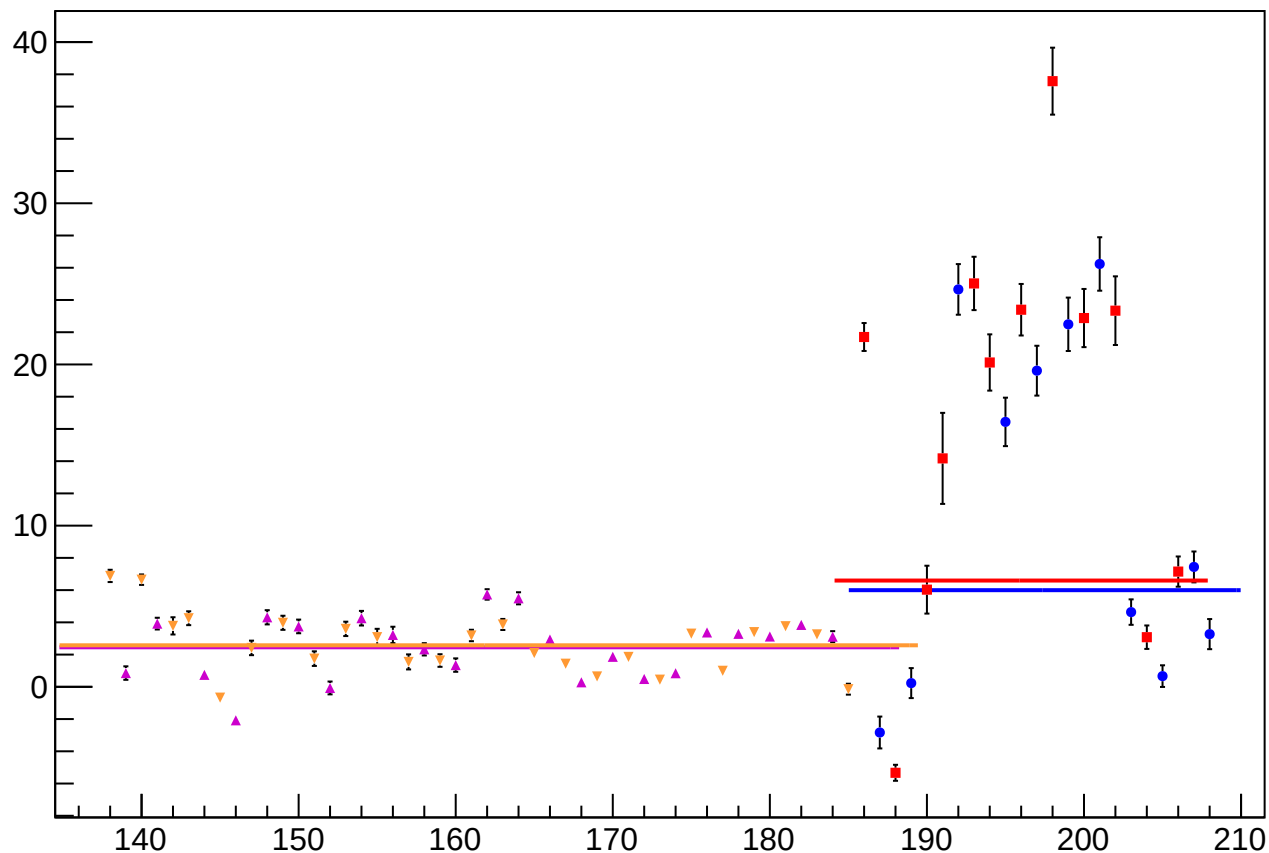
Right: -0.030 ± 0.005 χ^2/NDF : 1087.2/58

In: 0.129 ± 0.003 χ^2/NDF : 2141.1/50

Out: 0.137 ± 0.003 χ^2/NDF : 2437.5/55

All: 0.133 ± 0.002 χ^2/NDF : 4583.0/106

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.996 ± 0.313 $\chi^2/\text{NDF}: 710.0/10$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 6.594 ± 0.304 $\chi^2/\text{NDF}: 1572.9/11$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

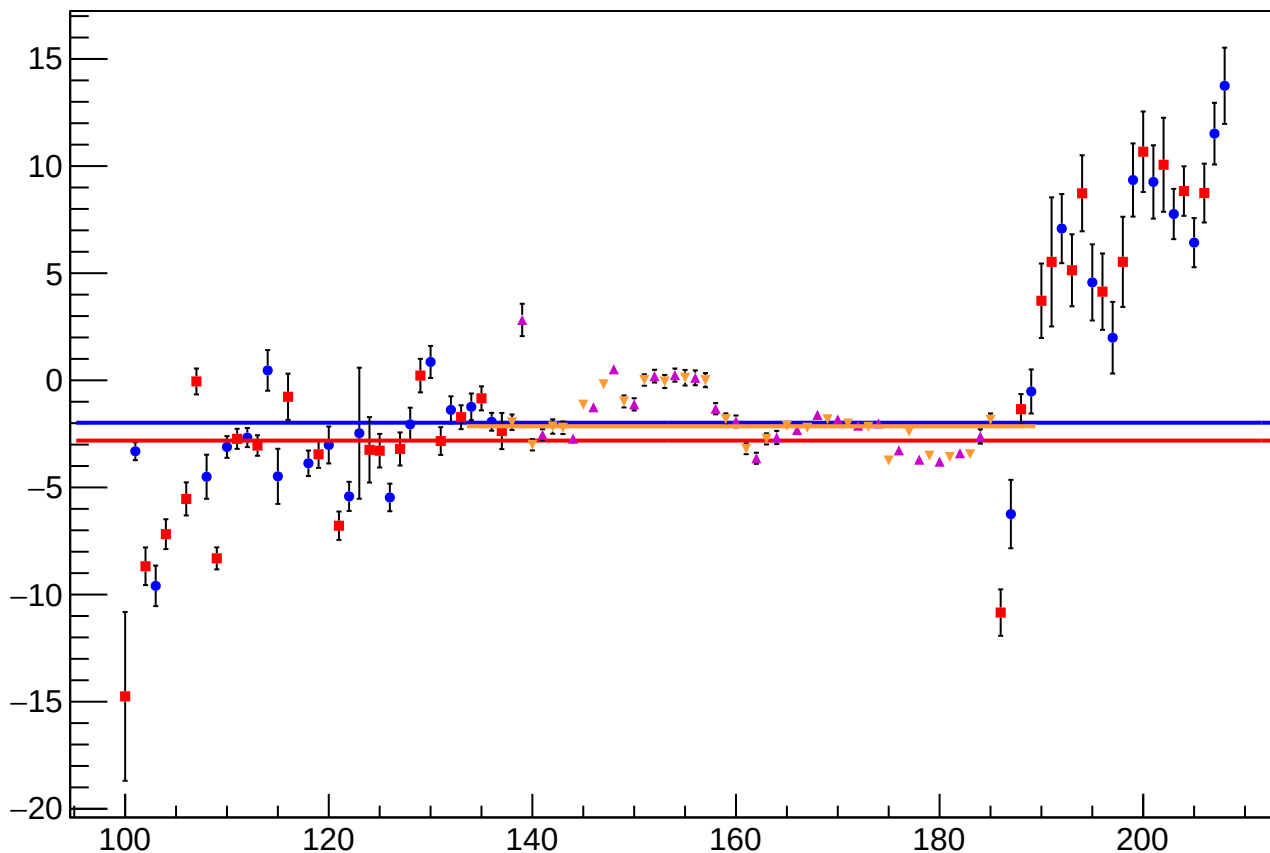
Right: 6.304 ± 0.218 $\chi^2/\text{NDF}: 2284.8/22$

In: 2.575 ± 0.058 $\chi^2/\text{NDF}: 1705.3/33$

Out: 2.719 ± 0.057 $\chi^2/\text{NDF}: 2609.1/36$

All: 2.649 ± 0.041 $\chi^2/\text{NDF}: 4317.5/70$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.978 ± 0.146 $\chi^2/\text{NDF}: 617.7/27$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.813 ± 0.144 $\chi^2/\text{NDF}: 748.7/30$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

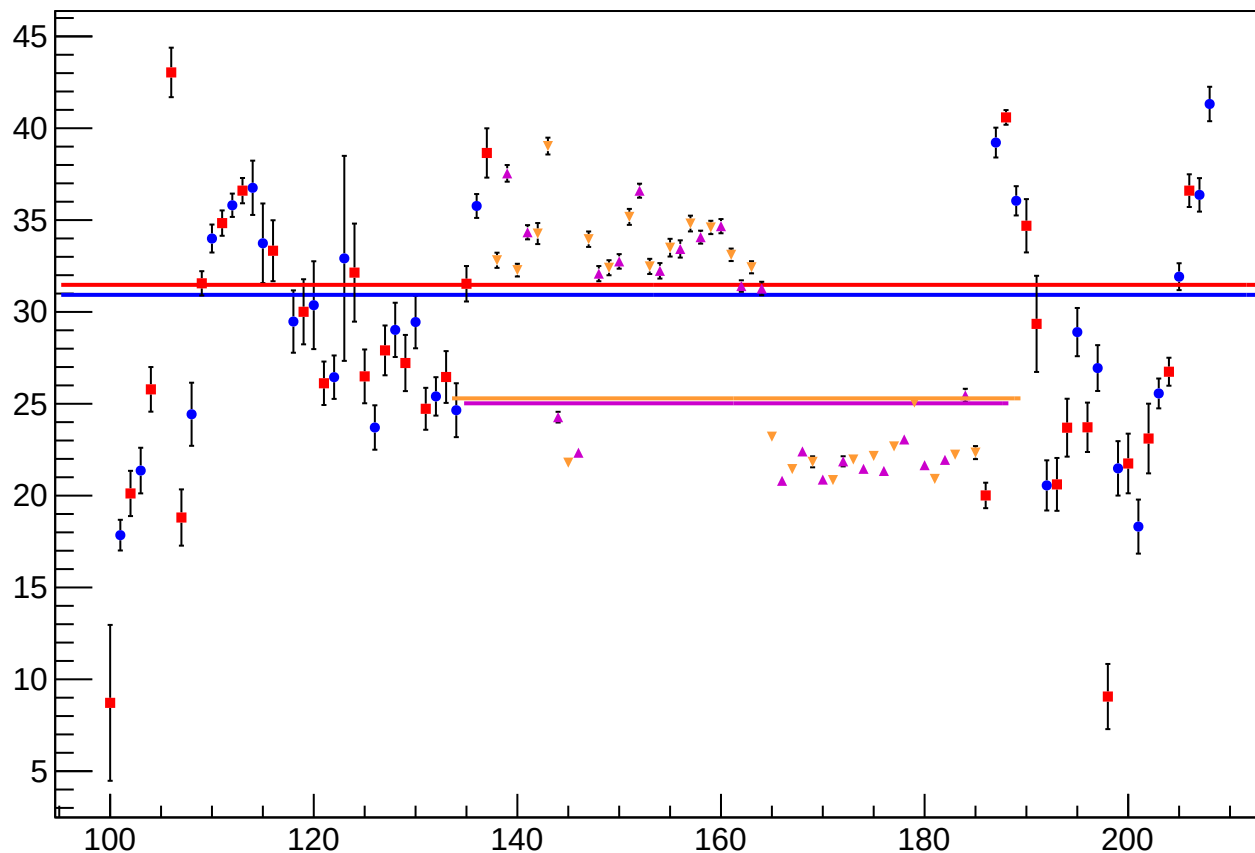
Right: -2.400 ± 0.103 $\chi^2/\text{NDF}: 1382.9/58$

In: -2.121 ± 0.046 $\chi^2/\text{NDF}: 1310.0/50$

Out: -2.211 ± 0.045 $\chi^2/\text{NDF}: 1341.3/55$

All: -2.167 ± 0.032 $\chi^2/\text{NDF}: 2653.3/106$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.930+/-0.198 χ^2/NDF : 1100.8/27

Left Out: 25.296+/-0.059 χ^2/NDF :8272.3/24

Right Out: 31.474+/-0.185 χ^2/NDF : 1681.3/30

Left In: 25.025+/-0.060 χ^2/NDF :7610.5/22

Left: 25.162+/-0.042 χ^2/NDF : 15893.3/47

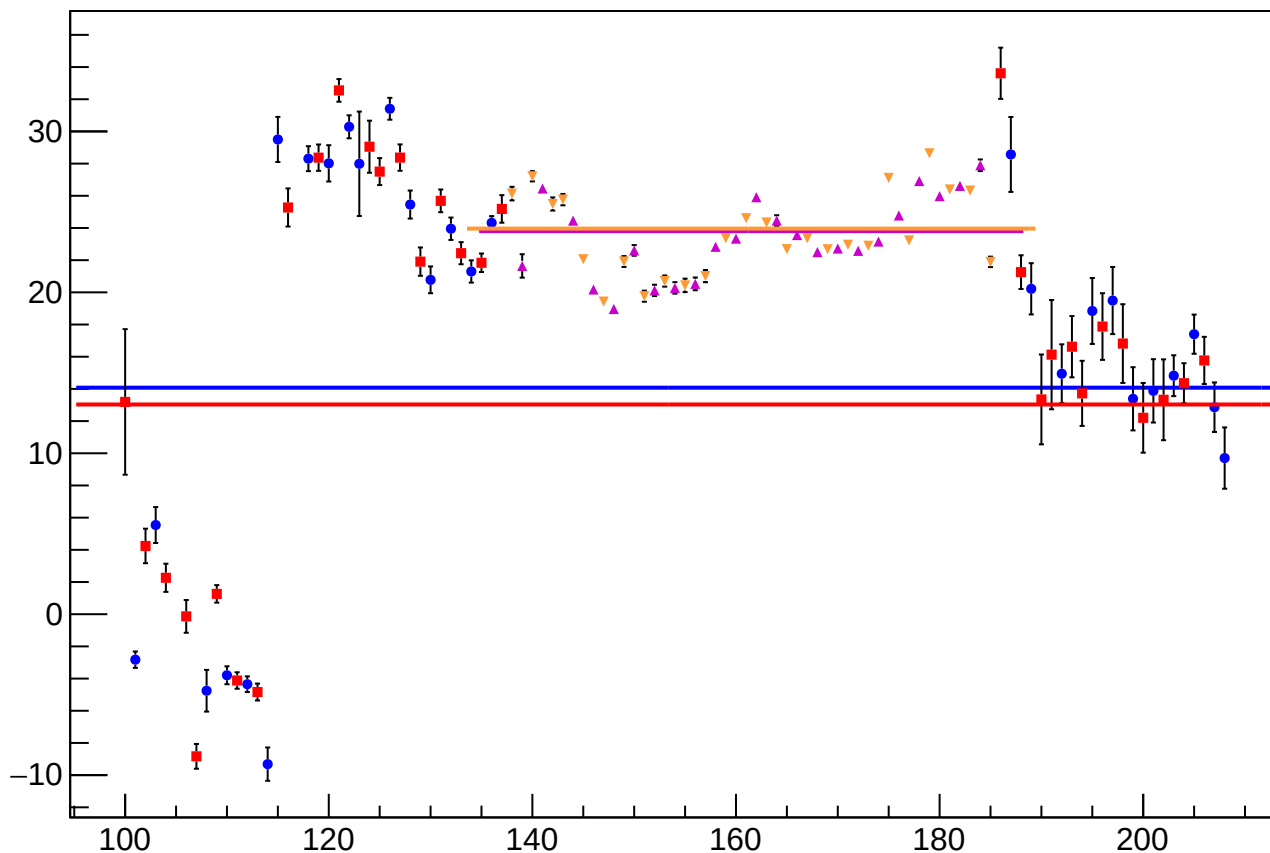
Right: 31.220+/-0.135 χ^2/NDF : 2786.1/58

In: 25.515+/-0.057 χ^2/NDF :9524.8/50

Out: 25.861+/-0.056 χ^2/NDF :10962.5/55

All: 25.691+/-0.040 χ^2/NDF : 20506.1/106

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.076 $\pm$ 0.164 χ^2 /NDF: 7356.7/27

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.031 $\pm$ 0.164 χ^2 /NDF: 7212.2/30

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

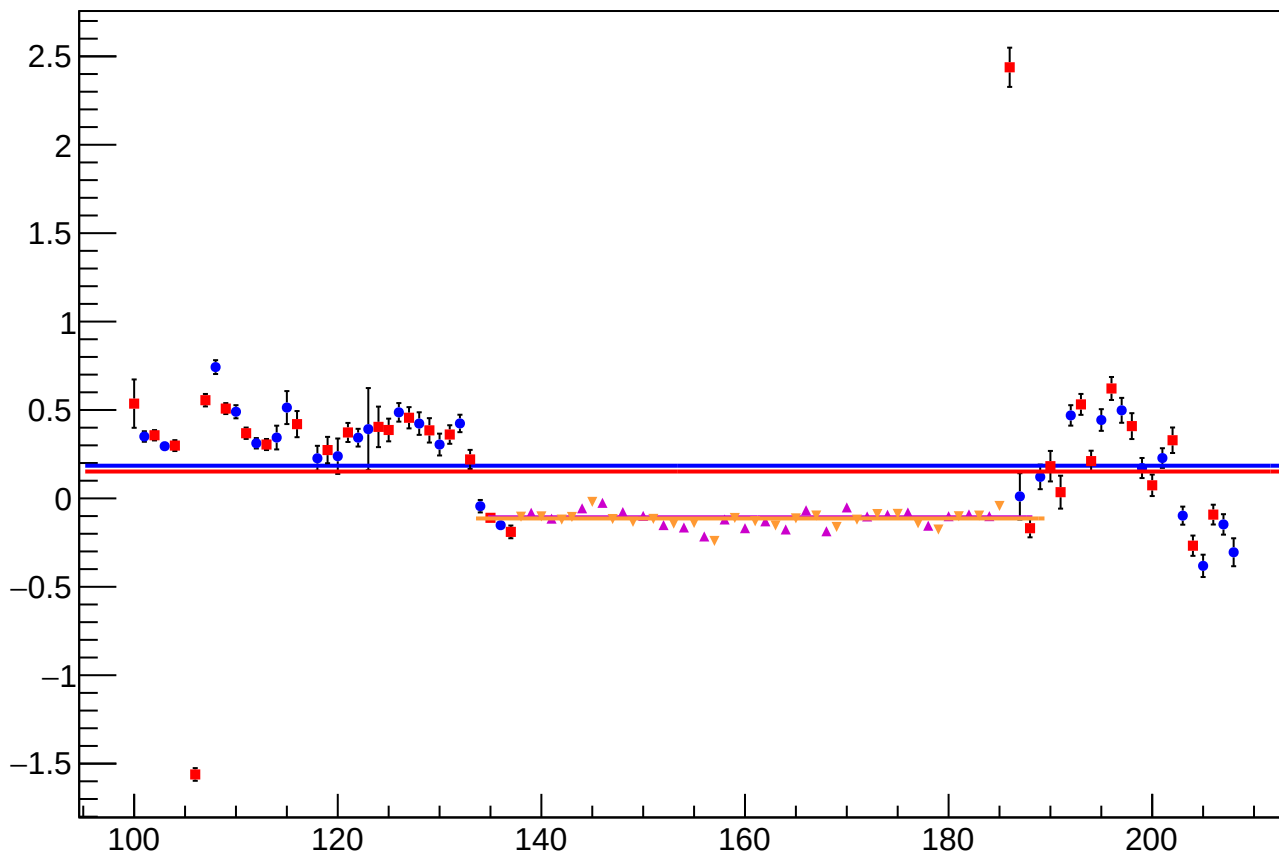
Right: 13.556 $\pm$ 0.116 χ^2 /NDF: 14589.3/58

In: 22.850 $\pm$ 0.051 χ^2 /NDF:12299.0/50

Out: 22.928 $\pm$ 0.051 χ^2 /NDF:13133.3/55

All: 22.890 $\pm$ 0.036 χ^2 /NDF: 25433.5/106

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.185 $\pm$ 0.008 χ^2 /NDF: 1098.2/27

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.152 $\pm$ 0.008 χ^2 /NDF: 3667.1/30

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

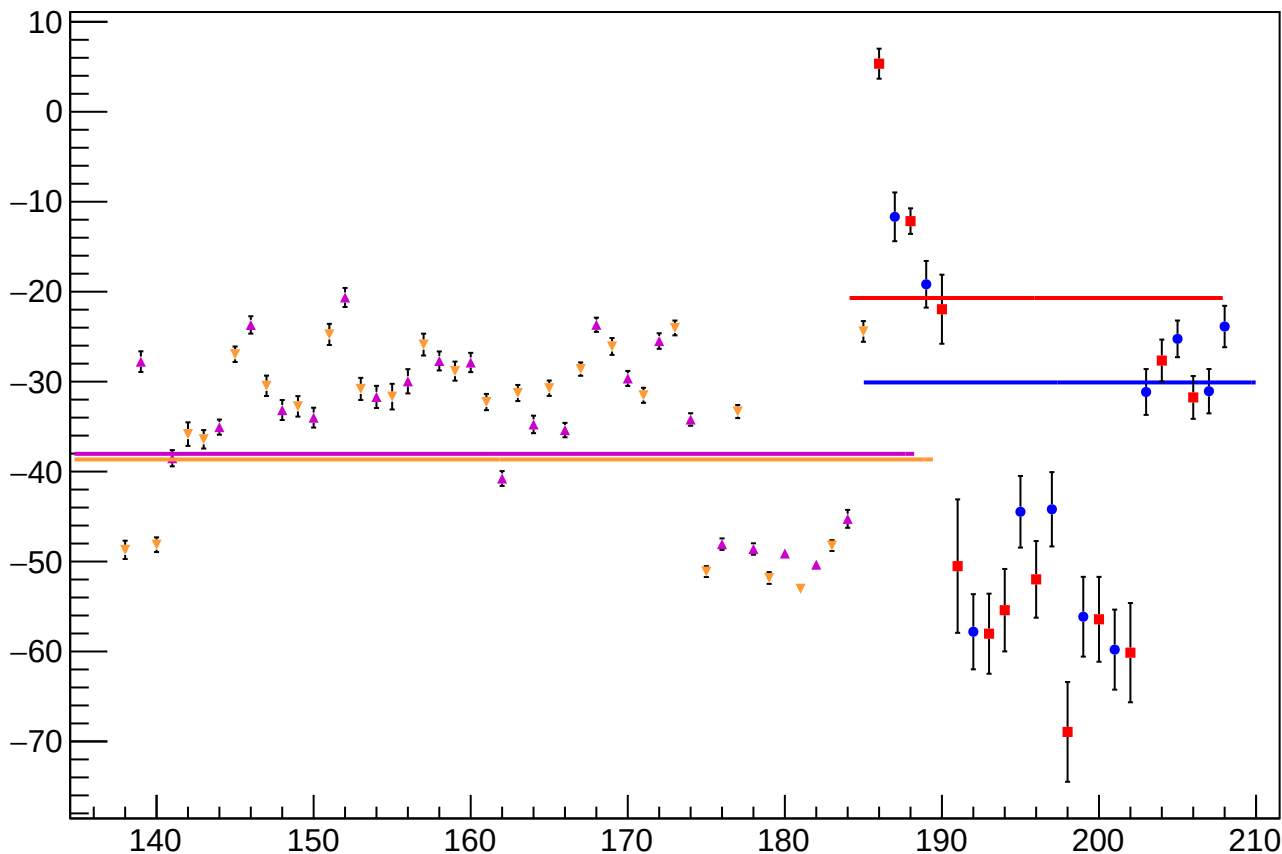
Right: 0.168 $\pm$ 0.006 χ^2 /NDF: 4773.1/58

In: -0.084 $\pm$ 0.002 χ^2 /NDF: 2525.5/50

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4903.3/55

All: -0.088 $\pm$ 0.002 χ^2 /NDF: 7436.0/106

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.091 ± 0.873 χ^2/NDF : 224.8/10

Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24

Right Out: -20.703 ± 0.800 χ^2/NDF : 692.0/11

Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47

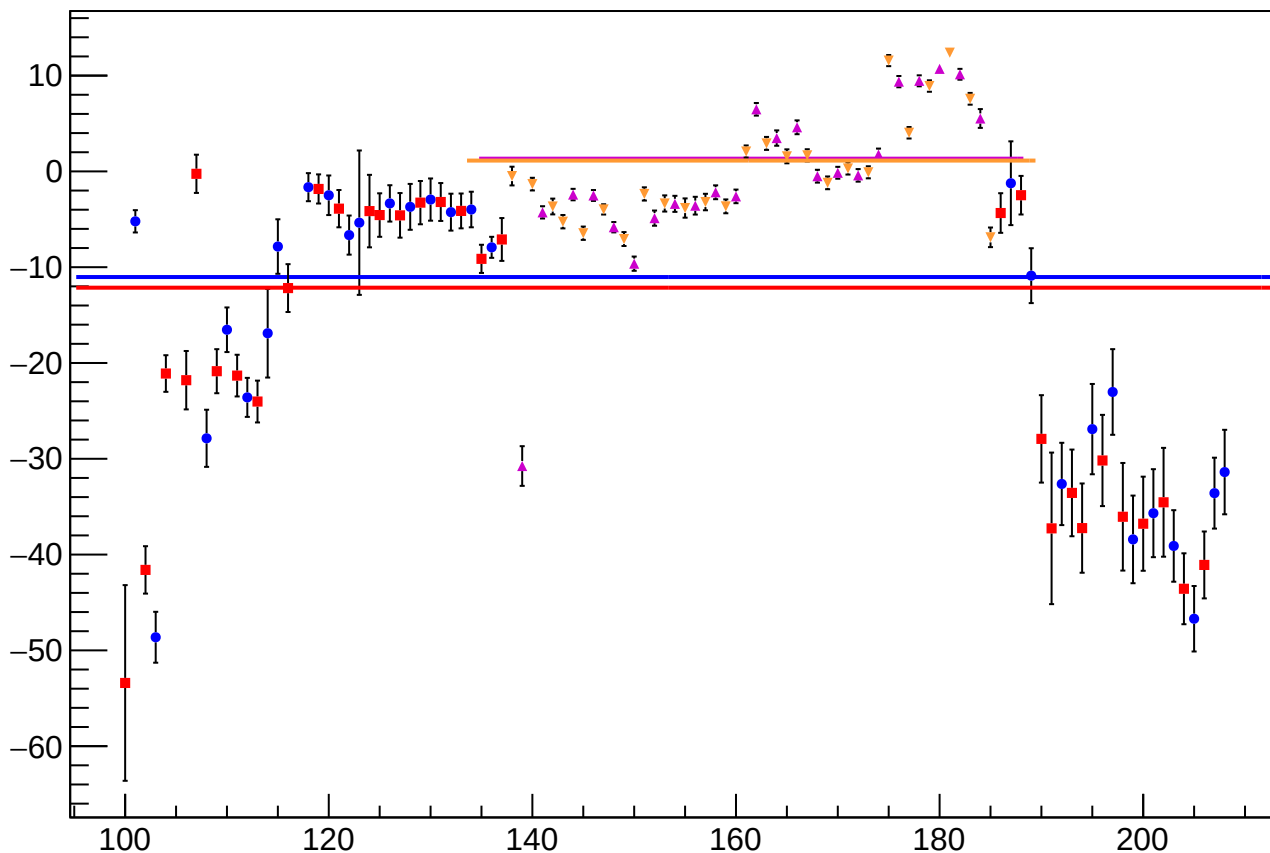
Right: -24.988 ± 0.590 χ^2/NDF : 979.7/22

In: -37.726 ± 0.170 χ^2/NDF : 3396.3/33

Out: -37.882 ± 0.165 χ^2/NDF : 5251.4/36

All: -37.806 ± 0.119 χ^2/NDF : 8648.1/70

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.028 ± 0.435 $\chi^2/\text{NDF}: 778.3/27$

Left Out: 1.130 ± 0.136 $\chi^2/\text{NDF}: 1799.3/24$

Right Out: -12.139 ± 0.444 $\chi^2/\text{NDF}: 766.6/30$

Left In: 1.329 ± 0.140 $\chi^2/\text{NDF}: 2048.0/22$

Left: 1.227 ± 0.097 $\chi^2/\text{NDF}: 3848.4/47$

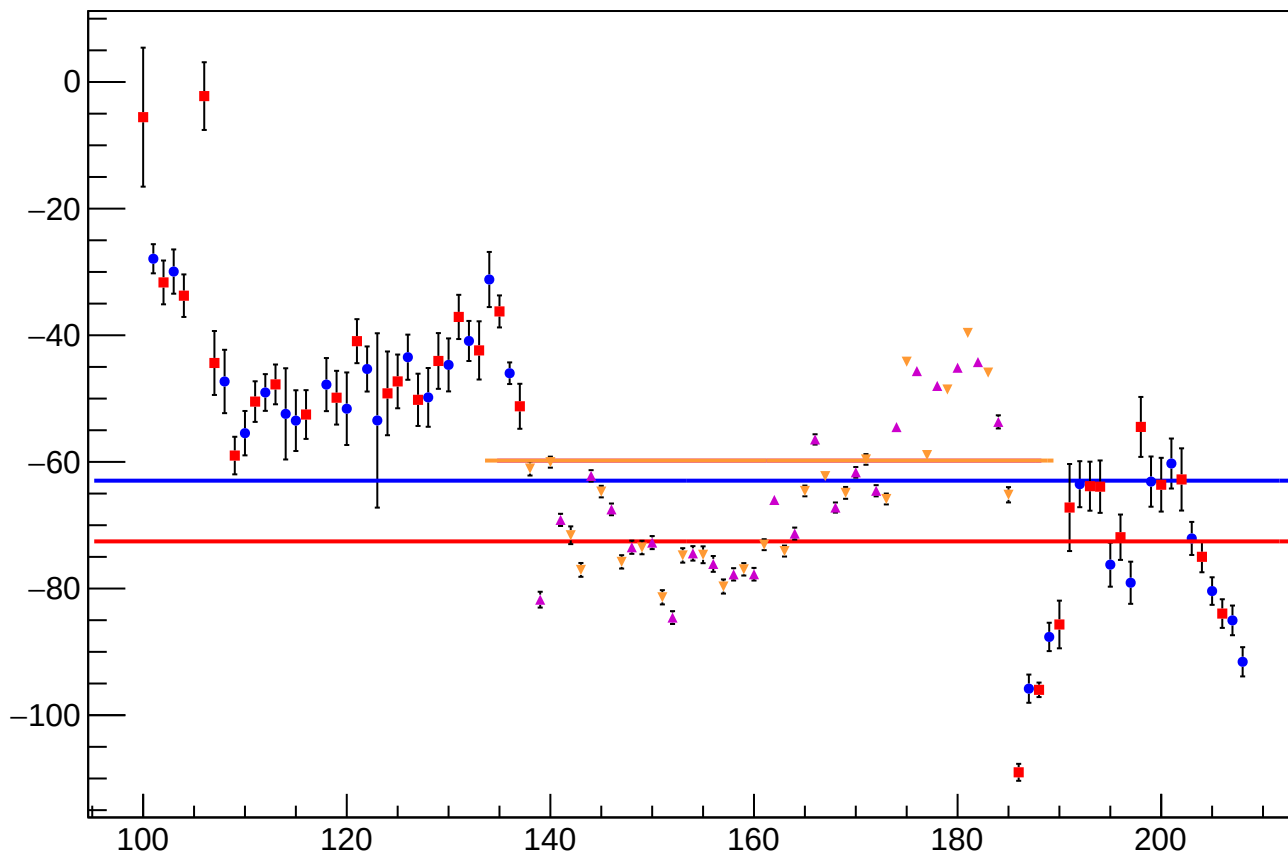
Right: -11.572 ± 0.310 $\chi^2/\text{NDF}: 1548.1/58$

In: 0.170 ± 0.133 $\chi^2/\text{NDF}: 3558.8/50$

Out: -0.009 ± 0.130 $\chi^2/\text{NDF}: 3383.4/55$

All: 0.078 ± 0.093 $\chi^2/\text{NDF}: 6943.2/106$

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.964 ± 0.585 $\chi^2/\text{NDF}: 1360.0/27$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -72.554 ± 0.539 $\chi^2/\text{NDF}: 2524.2/30$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

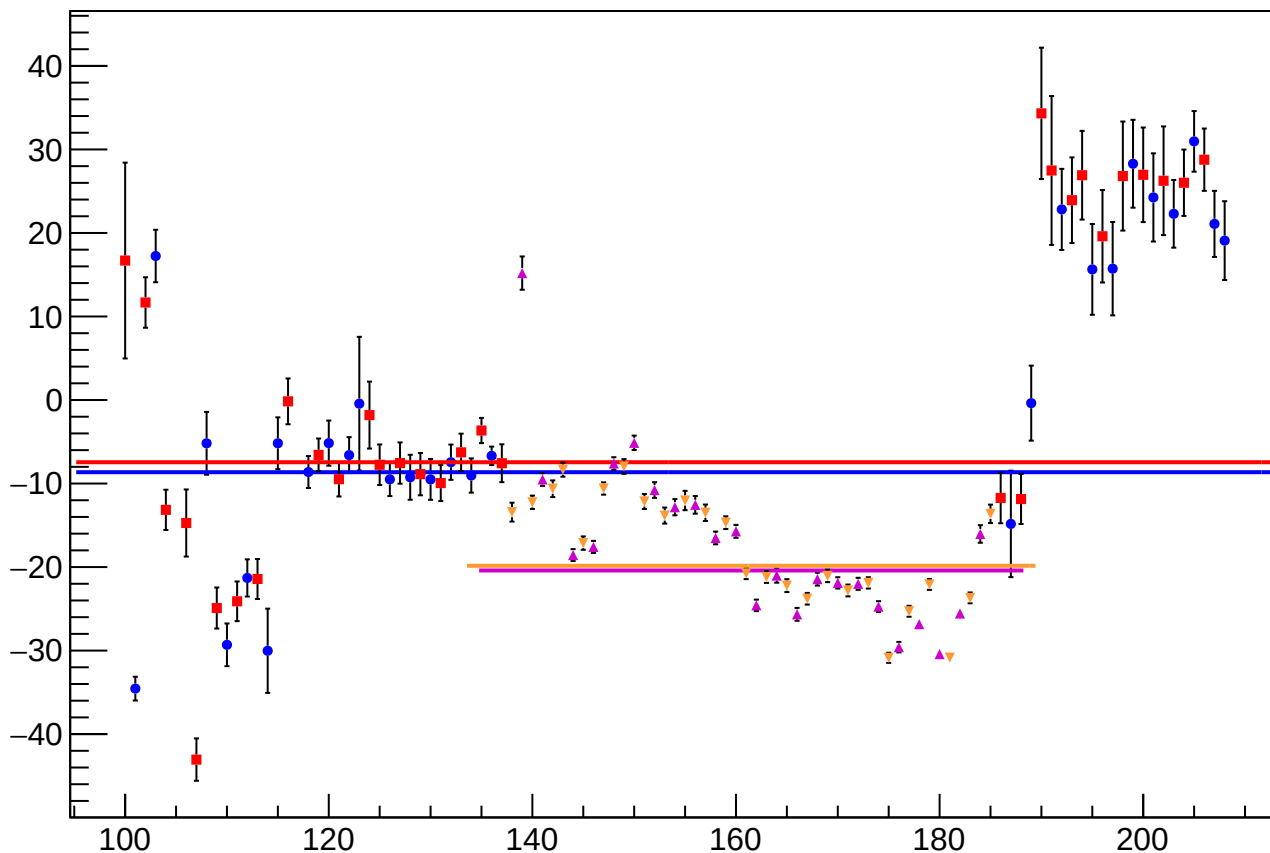
Right: -68.150 ± 0.396 $\chi^2/\text{NDF}: 4029.7/58$

In: -60.058 ± 0.166 $\chi^2/\text{NDF}: 6604.4/50$

Out: -60.946 ± 0.162 $\chi^2/\text{NDF}: 8872.6/55$

All: -60.513 ± 0.116 $\chi^2/\text{NDF}: 15491.6/106$

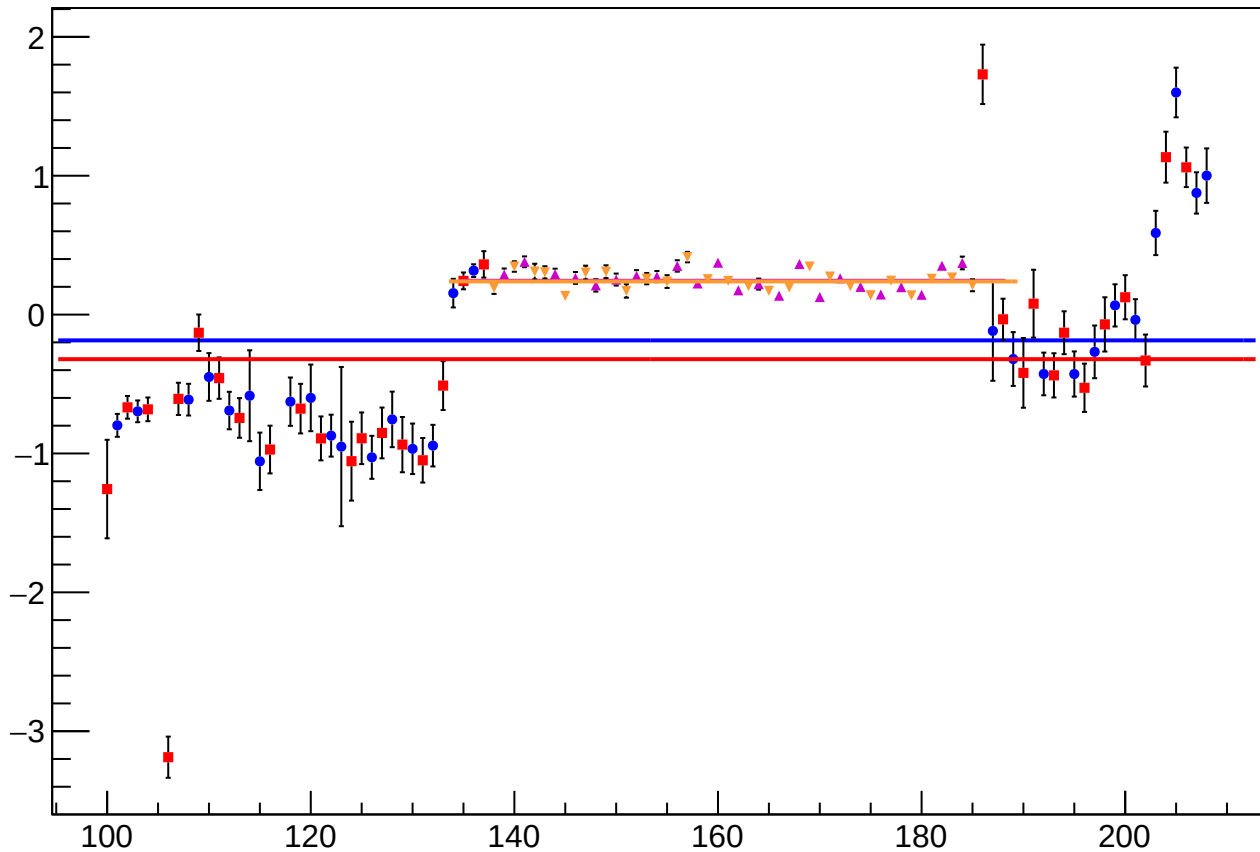
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.643 ± 0.491 χ^2/NDF : 967.0/27
 Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24
 Right Out: -7.448 ± 0.512 χ^2/NDF : 809.7/30
 Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47
 Right: -8.070 ± 0.354 χ^2/NDF : 1779.5/58
 In: -19.324 ± 0.149 χ^2/NDF : 3789.9/50
 Out: -18.833 ± 0.146 χ^2/NDF : 3280.2/55
 All: -19.073 ± 0.105 χ^2/NDF : 7075.6/106

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.186 ± 0.024 χ^2/NDF : 610.6/27

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.321 ± 0.025 χ^2/NDF : 927.4/30

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

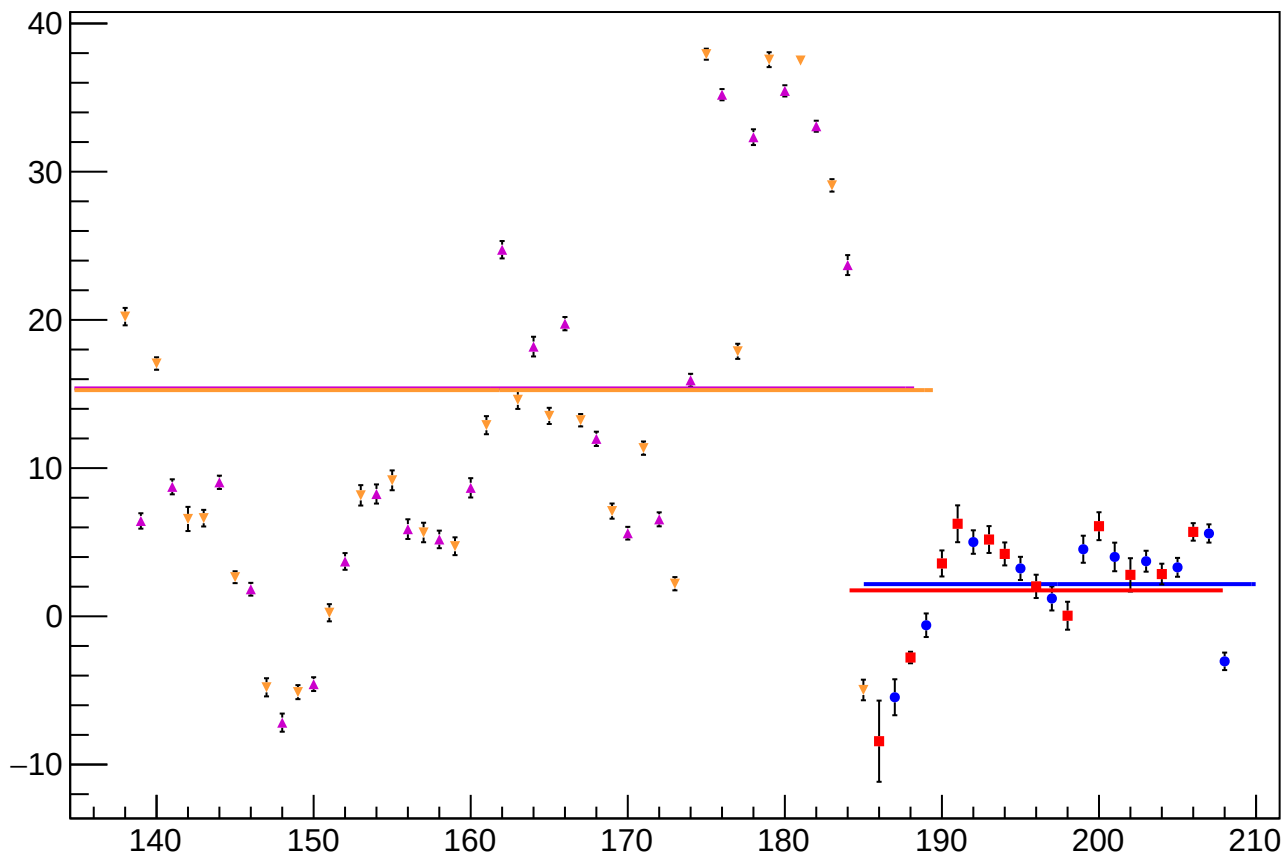
Right: -0.252 ± 0.017 χ^2/NDF : 1553.1/58

In: 0.209 ± 0.007 χ^2/NDF : 1034.4/50

Out: 0.198 ± 0.007 χ^2/NDF : 1487.6/55

All: 0.203 ± 0.005 χ^2/NDF : 2523.4/106

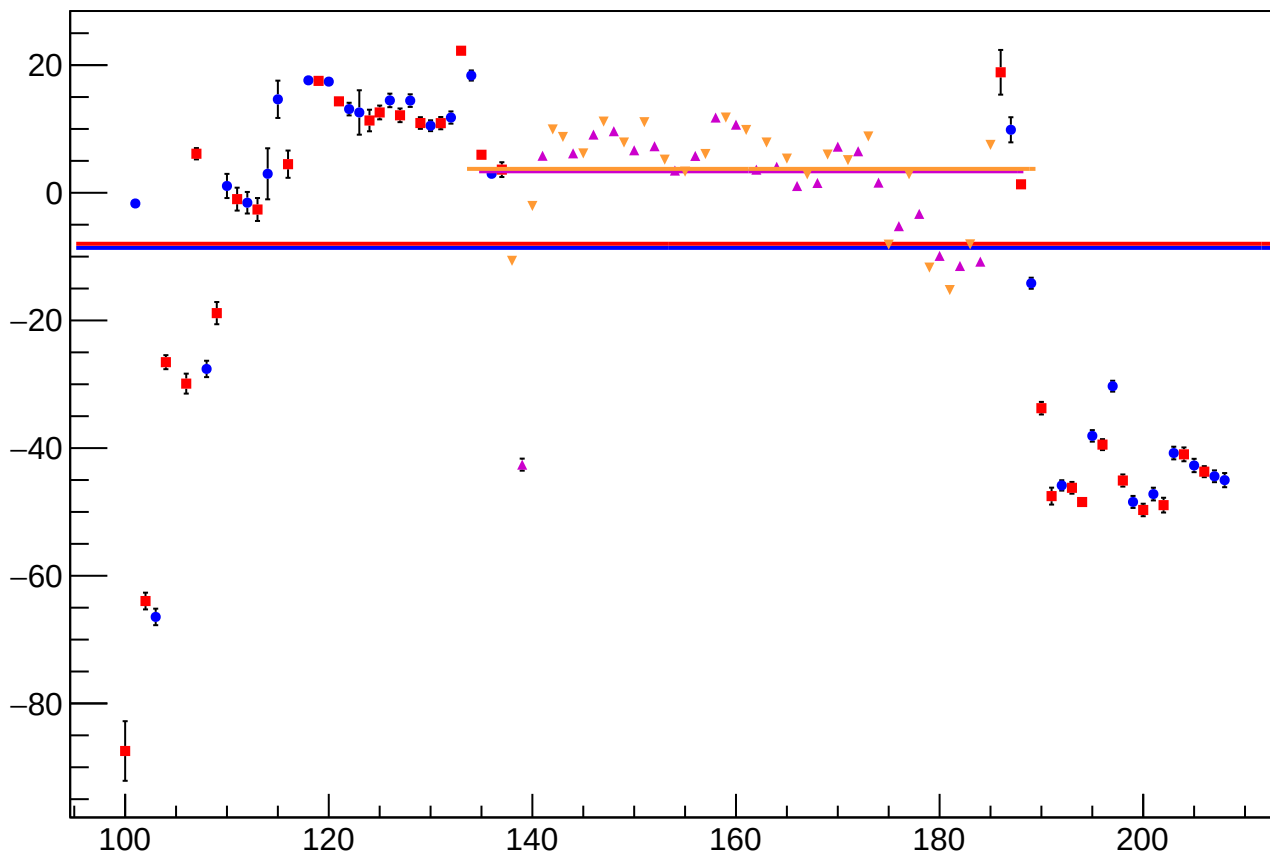
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.172 ± 0.228 χ^2/NDF : 194.7/10
 Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24
 Right Out: 1.750 ± 0.217 χ^2/NDF : 263.7/11
 Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47
 Right: 1.951 ± 0.157 χ^2/NDF : 460.3/22
 In: 13.144 ± 0.094 χ^2/NDF : 19256.3/33
 Out: 12.885 ± 0.091 χ^2/NDF : 22620.3/36
 All: 13.011 ± 0.065 χ^2/NDF : 41880.5/70

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.630 ± 0.175 χ^2/NDF : 22814.7/27

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -7.986 ± 0.167 χ^2/NDF : 27506.4/30

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

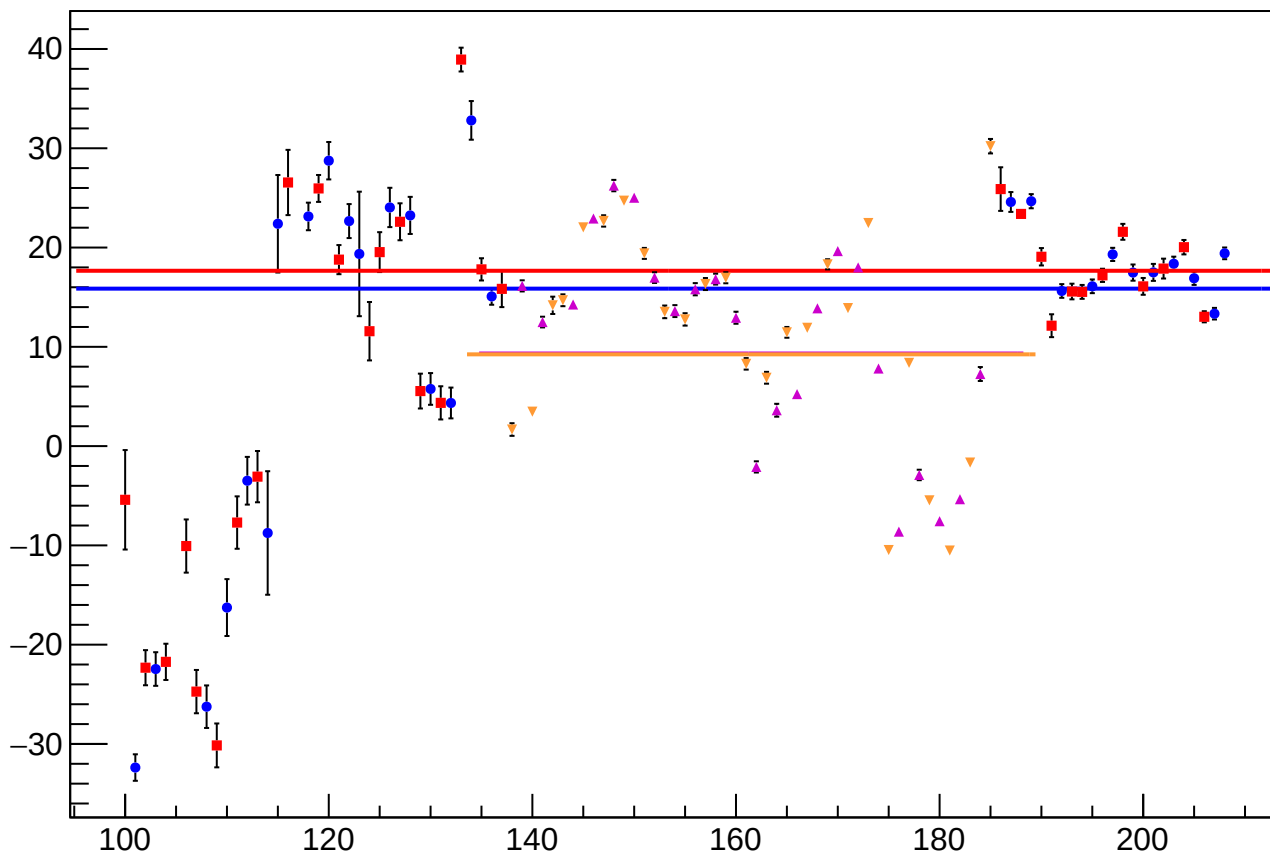
Right: -8.293 ± 0.121 χ^2/NDF : 50328.2/58

In: 1.235 ± 0.074 χ^2/NDF : 35213.8/50

Out: 1.609 ± 0.071 χ^2/NDF : 40795.2/55

All: 1.428 ± 0.051 χ^2/NDF : 76022.4/106

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.860 $\pm$ 0.189 χ^2 /NDF: 3040.2/27

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.661 $\pm$ 0.174 χ^2 /NDF: 3084.7/30

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

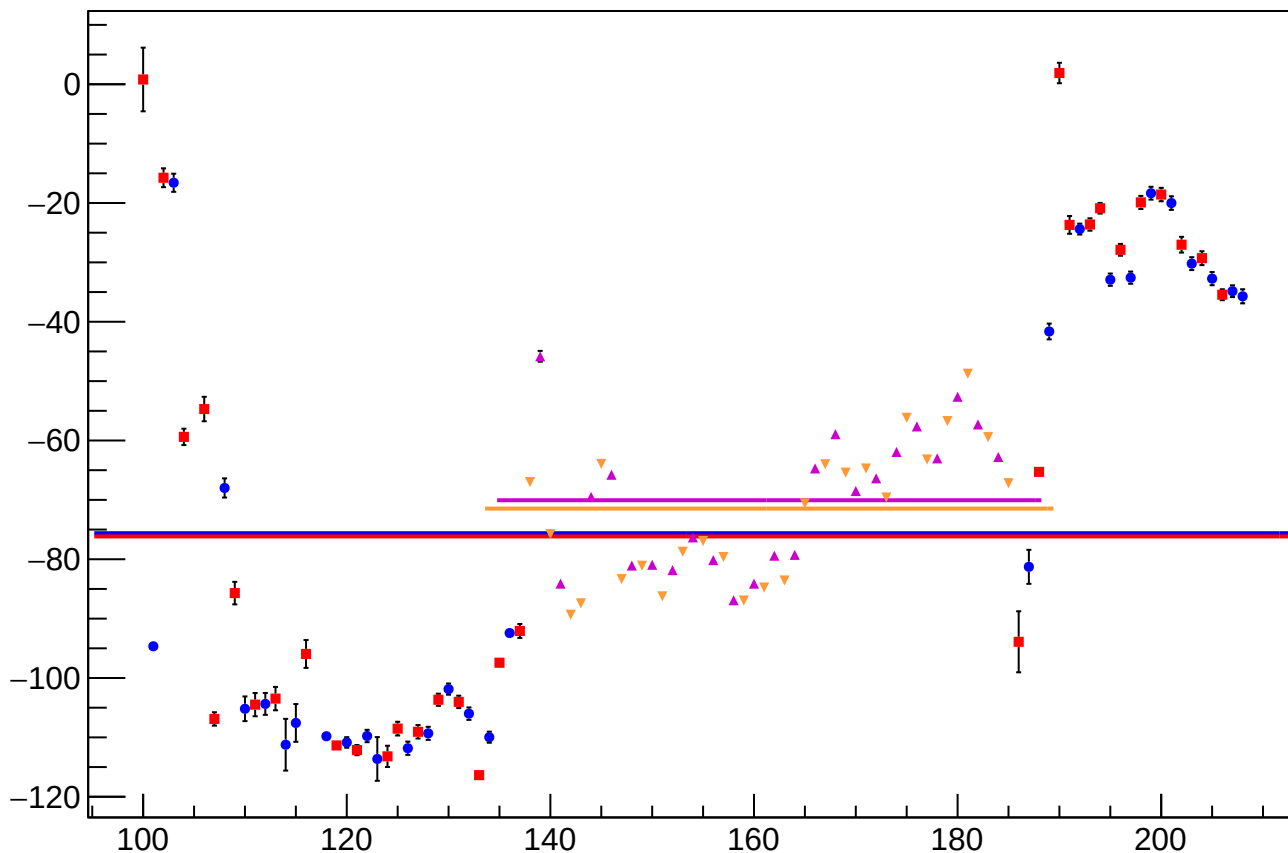
Right: 16.834 $\pm$ 0.128 χ^2 /NDF: 6174.0/58

In: 10.814 $\pm$ 0.090 χ^2 /NDF:15931.3/50

Out: 11.359 $\pm$ 0.087 χ^2 /NDF:18468.0/55

All: 11.095 $\pm$ 0.063 χ^2 /NDF: 34418.1/106

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.613+/-0.202 χ^2/NDF : 32666.0/27

Left Out: -71.465+/-0.089 χ^2/NDF : 16409.7/24

Right Out: -76.157+/-0.196 χ^2/NDF : 39697.0/30

Left In: -70.061+/-0.092 χ^2/NDF : 13058.5/22

Left: -70.782+/-0.064 χ^2/NDF : 29588.5/47

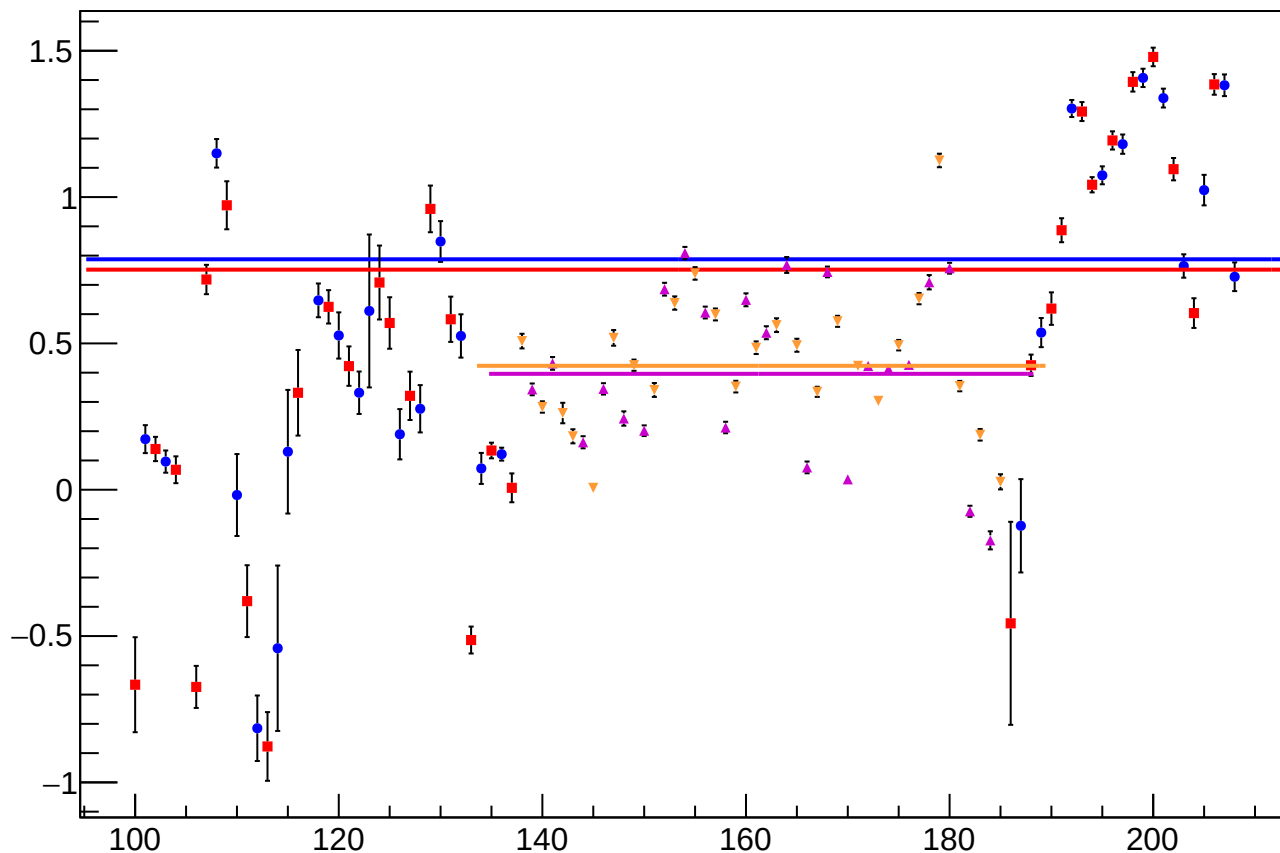
Right: -75.892+/-0.141 χ^2/NDF : 72366.7/58

In: -71.014+/-0.083 χ^2/NDF : 46353.2/50

Out: -72.270+/-0.081 χ^2/NDF : 56580.3/55

All: -71.659+/-0.058 χ^2/NDF : 103049.7/106

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.787 ± 0.009 χ^2/NDF : 3635.5/27

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.752 ± 0.008 χ^2/NDF : 4820.9/30

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

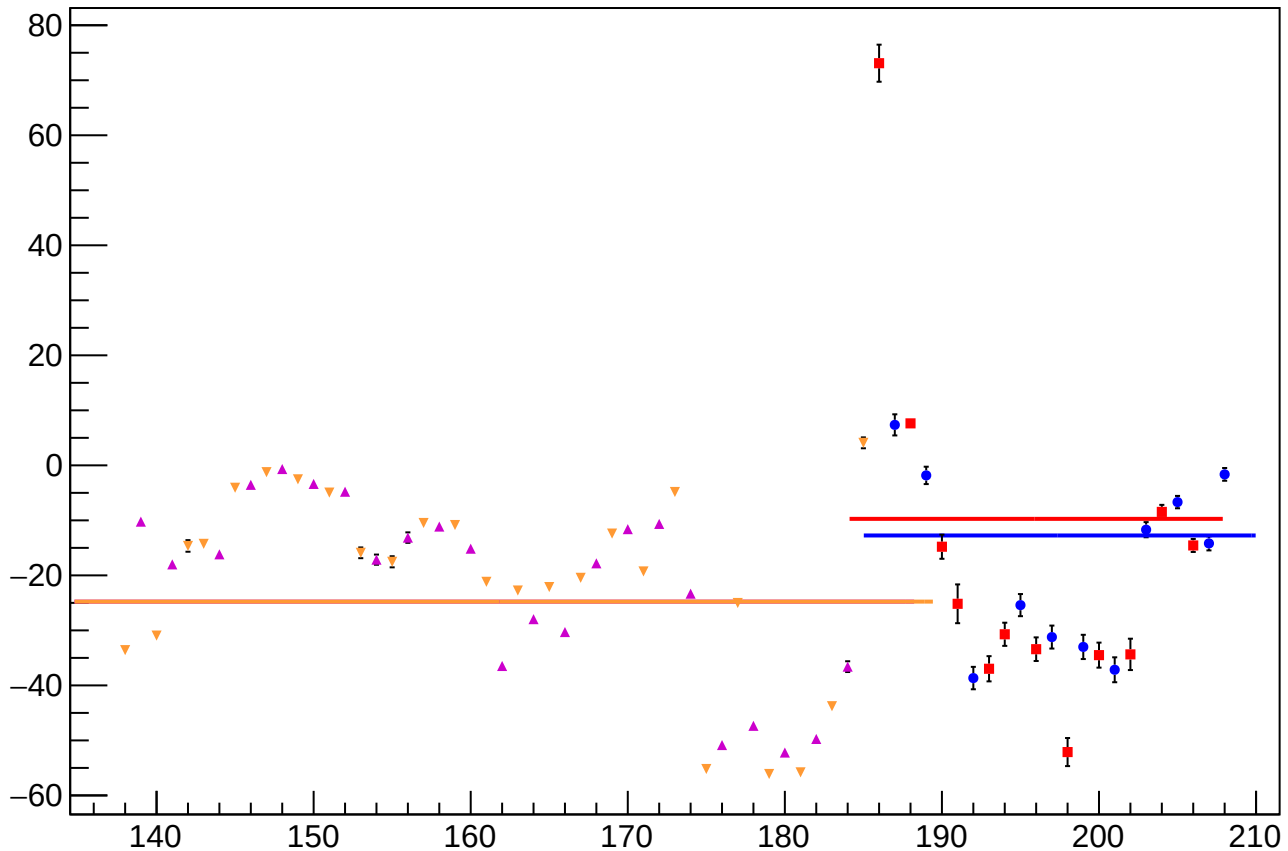
Right: 0.769 ± 0.006 χ^2/NDF : 8465.0/58

In: 0.469 ± 0.004 χ^2/NDF : 9331.1/50

Out: 0.487 ± 0.004 χ^2/NDF : 8958.7/55

All: 0.478 ± 0.003 χ^2/NDF : 18302.1/106

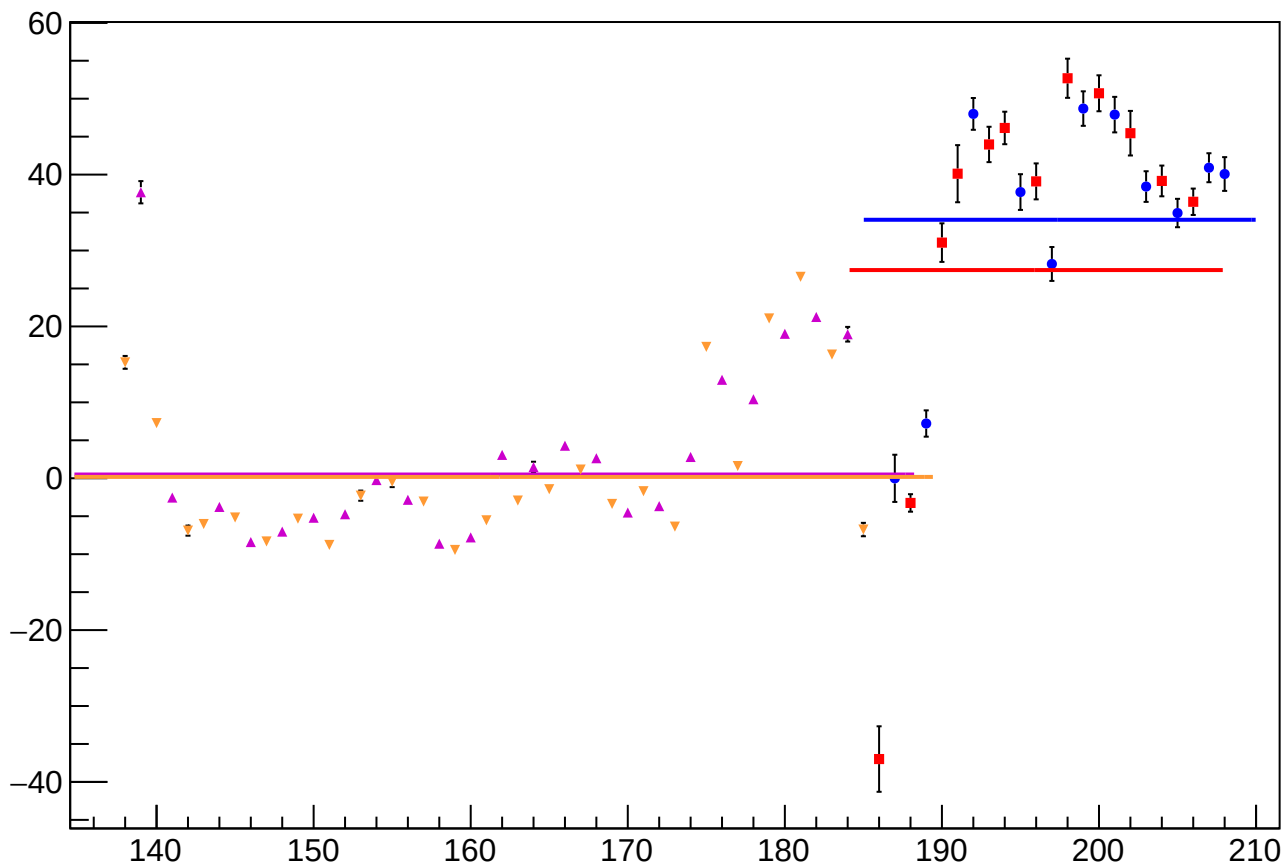
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.747 ± 0.473 χ^2/NDF : 760.5/10
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -9.727 ± 0.479 χ^2/NDF : 1948.6/11
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -11.254 ± 0.336 χ^2/NDF : 2729.3/22
 In: -23.771 ± 0.137 χ^2/NDF : 16160.3/33
 Out: -23.593 ± 0.134 χ^2/NDF : 21177.8/36
 All: -23.680 ± 0.096 χ^2/NDF : 37339.0/70

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.050 $\pm$ 0.641 χ^2 /NDF: 515.3/10

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 27.425 $\pm$ 0.616 χ^2 /NDF: 1386.6/11

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

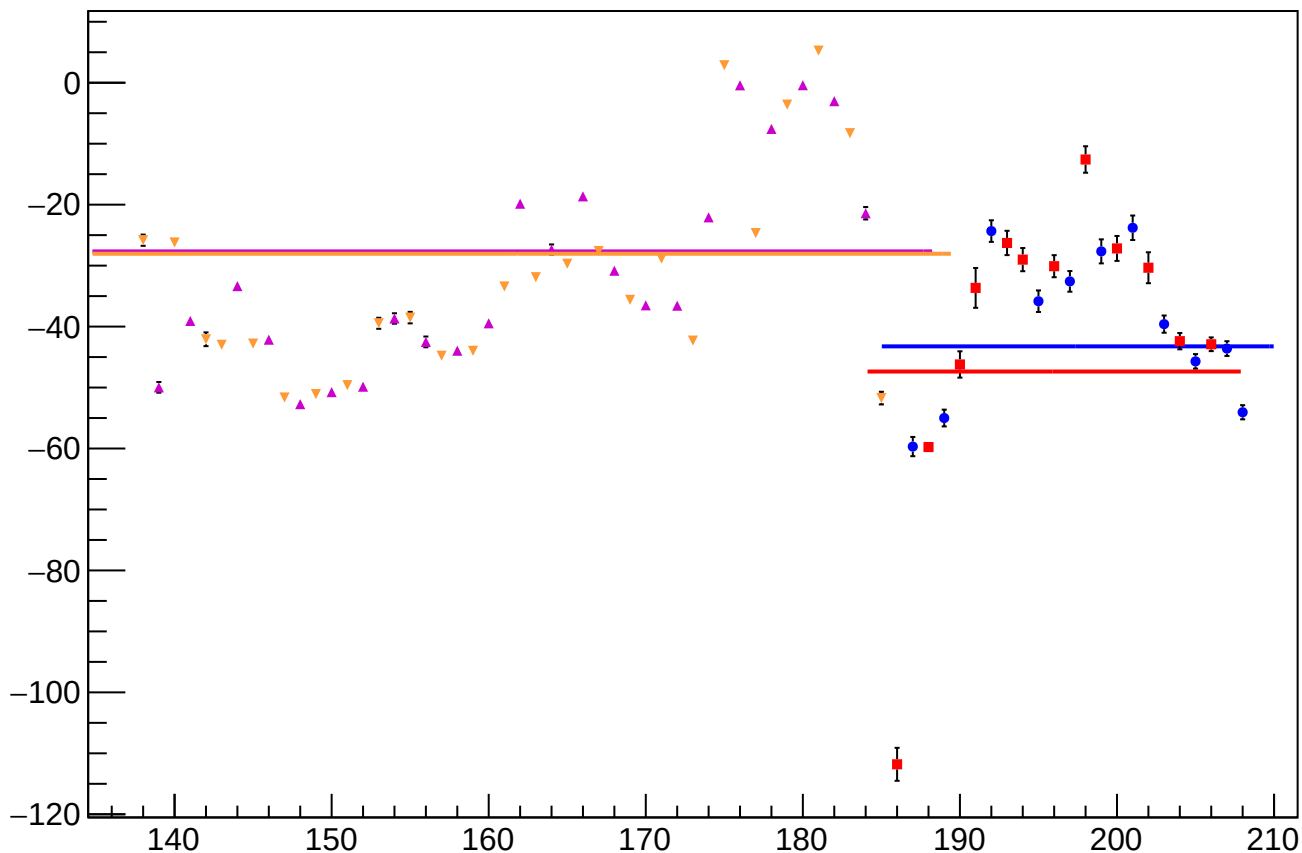
Right: 30.605 $\pm$ 0.444 χ^2 /NDF: 1957.3/22

In: 1.488 $\pm$ 0.110 χ^2 /NDF:9725.9/33

Out: 0.997 $\pm$ 0.107 χ^2 /NDF:11577.8/36

All: 1.234 $\pm$ 0.077 χ^2 /NDF: 21313.9/70

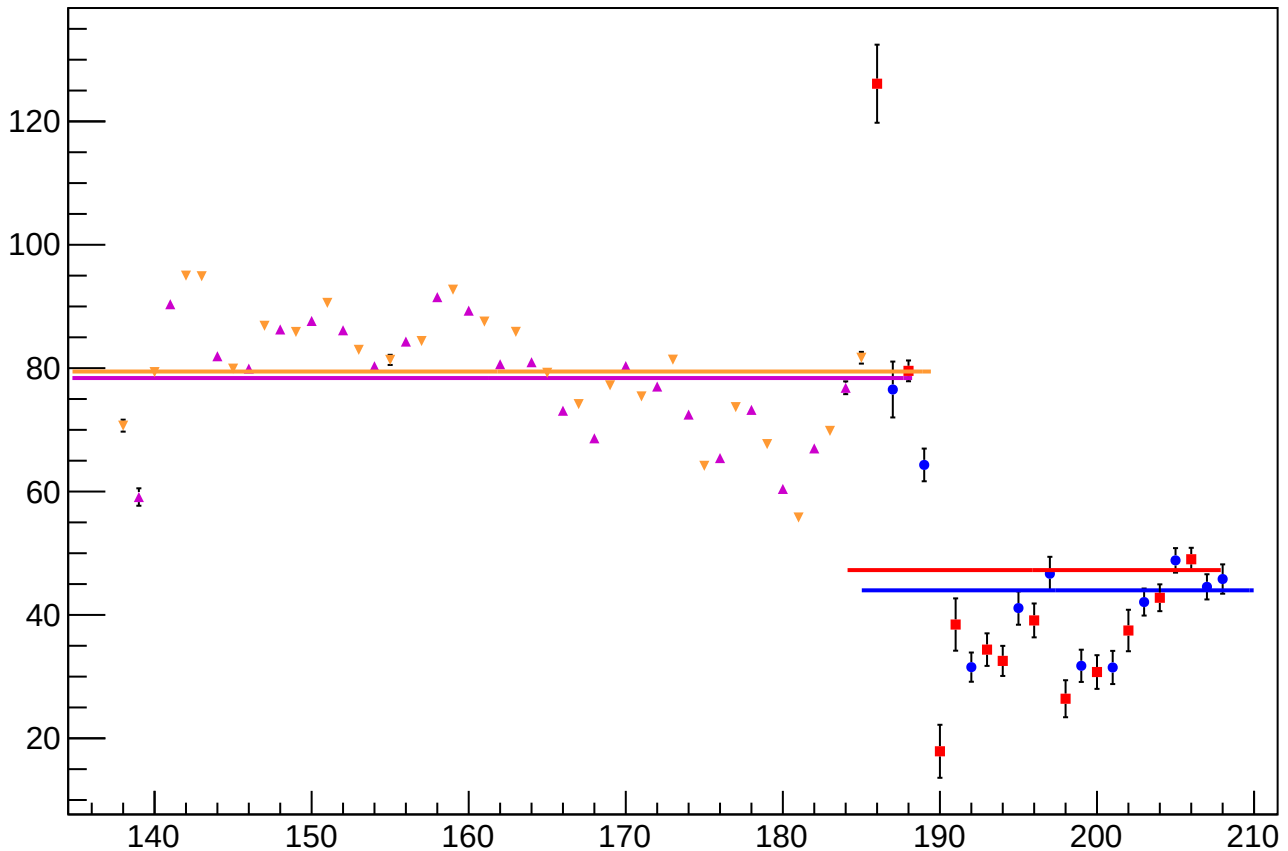
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.245 ± 0.445 $\chi^2/\text{NDF}: 606.1/10$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -47.372 ± 0.422 $\chi^2/\text{NDF}: 1675.8/11$
 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: -45.418 ± 0.306 $\chi^2/\text{NDF}: 2327.1/22$
 In: -29.114 ± 0.136 $\chi^2/\text{NDF}: 16720.7/33$
 Out: -29.964 ± 0.133 $\chi^2/\text{NDF}: 20710.2/36$
 All: -29.548 ± 0.095 $\chi^2/\text{NDF}: 37451.0/70$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.987 ± 0.745 $\chi^2/\text{NDF}: 191.2/10$

Left Out: 79.456 ± 0.123 $\chi^2/\text{NDF}: 6077.1/24$

Right Out: 47.266 ± 0.752 $\chi^2/\text{NDF}: 740.7/11$

Left In: 78.396 ± 0.127 $\chi^2/\text{NDF}: 4707.3/22$

Left: 78.941 ± 0.088 $\chi^2/\text{NDF}: 10820.4/47$

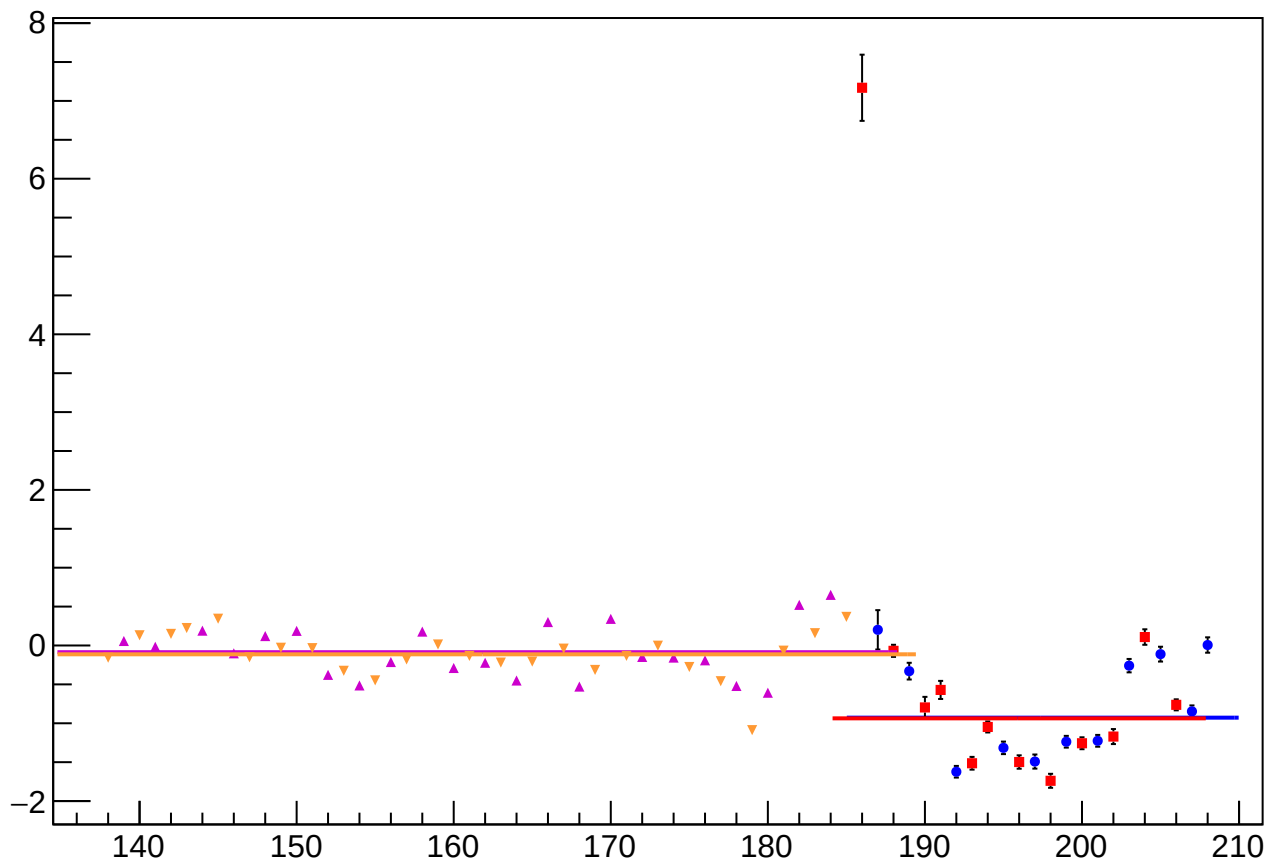
Right: 45.610 ± 0.529 $\chi^2/\text{NDF}: 941.5/22$

In: 77.428 ± 0.125 $\chi^2/\text{NDF}: 6972.0/33$

Out: 78.616 ± 0.122 $\chi^2/\text{NDF}: 8600.1/36$

All: 78.038 ± 0.087 $\chi^2/\text{NDF}: 15618.5/70$

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.928 ± 0.027 χ^2/NDF : 454.7/10

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -0.937 ± 0.026 χ^2/NDF : 811.9/11

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

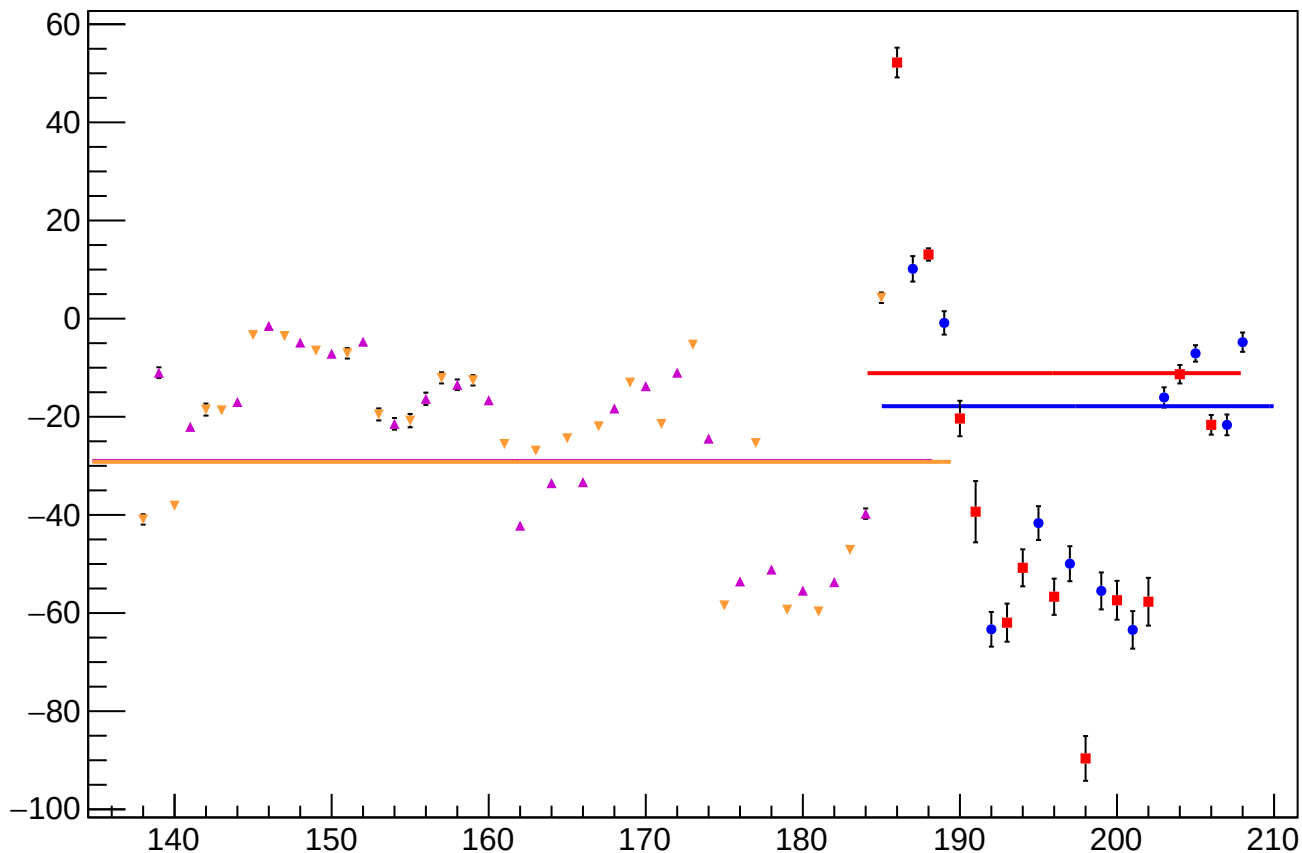
Right: -0.932 ± 0.019 χ^2/NDF : 1266.7/22

In: -0.124 ± 0.006 χ^2/NDF : 4548.4/33

Out: -0.151 ± 0.006 χ^2/NDF : 4073.9/36

All: -0.138 ± 0.004 χ^2/NDF : 8633.4/70

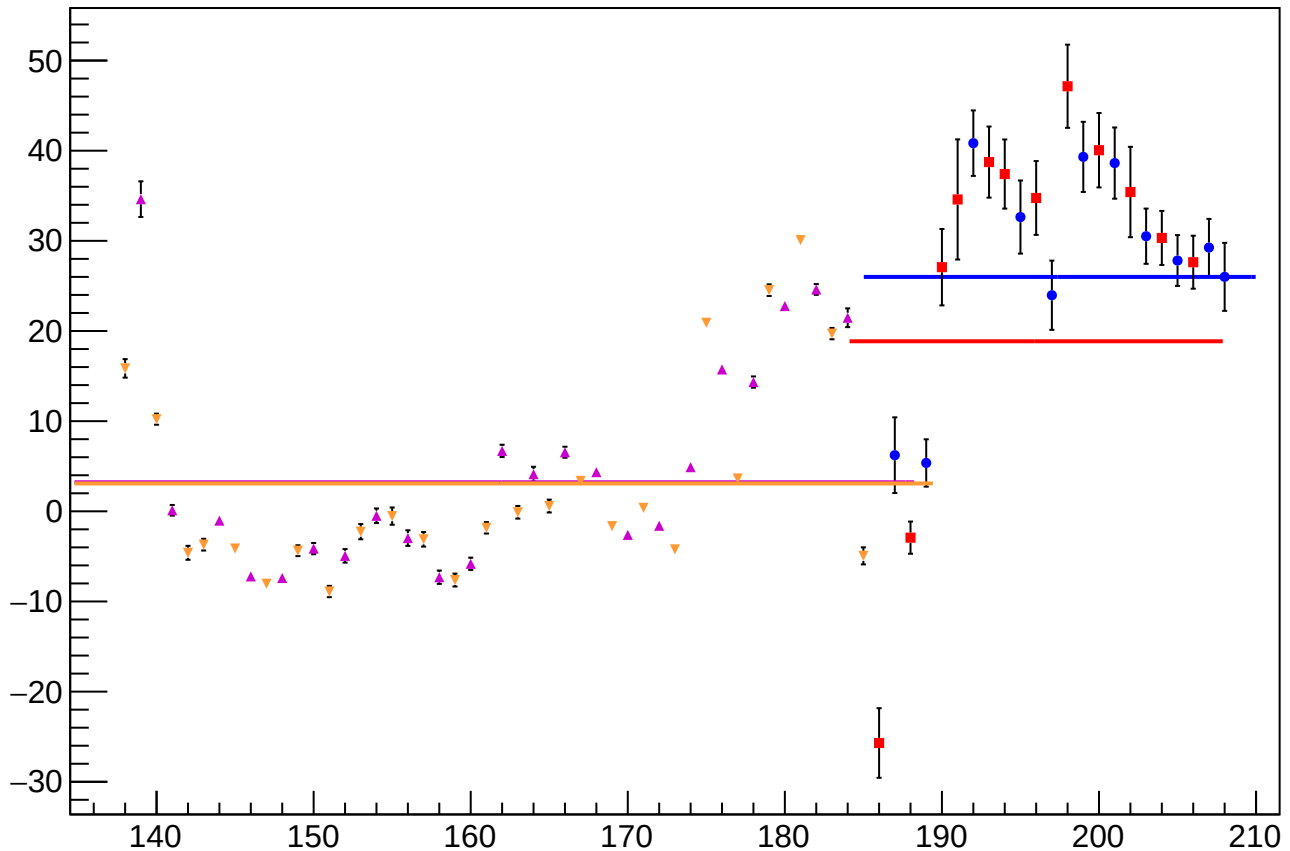
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.848 ± 0.750 $\chi^2/\text{NDF}: 792.3/10$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -11.114 ± 0.757 $\chi^2/\text{NDF}: 1823.6/11$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -14.512 ± 0.533 $\chi^2/\text{NDF}: 2655.8/22$
 In: -28.518 ± 0.156 $\chi^2/\text{NDF}: 14420.7/33$
 Out: -28.437 ± 0.154 $\chi^2/\text{NDF}: 19282.2/36$
 All: -28.477 ± 0.110 $\chi^2/\text{NDF}: 33703.0/70$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.999 $\pm$ 1.033 χ^2 /NDF: 129.1/10

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 18.861 $\pm$ 0.988 χ^2 /NDF: 453.8/11

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

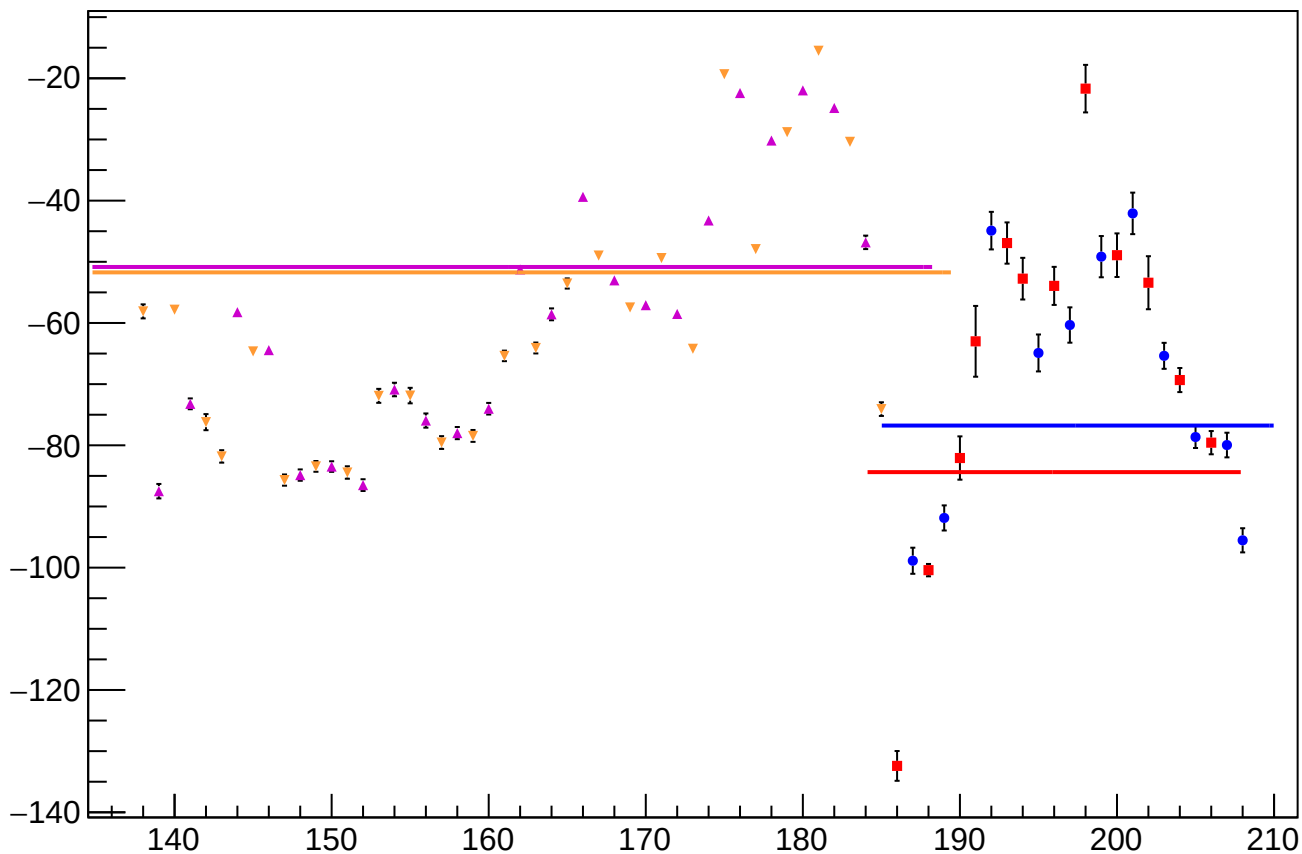
Right: 22.274 $\pm$ 0.714 χ^2 /NDF: 607.9/22

In: 3.560 $\pm$ 0.126 χ^2 /NDF: 6846.2/33

Out: 3.337 $\pm$ 0.123 χ^2 /NDF: 8788.5/36

All: 3.446 $\pm$ 0.088 χ^2 /NDF: 15636.3/70

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.772 ± 0.707 χ^2/NDF : 611.1/10

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -84.384 ± 0.664 χ^2/NDF : 1434.9/11

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

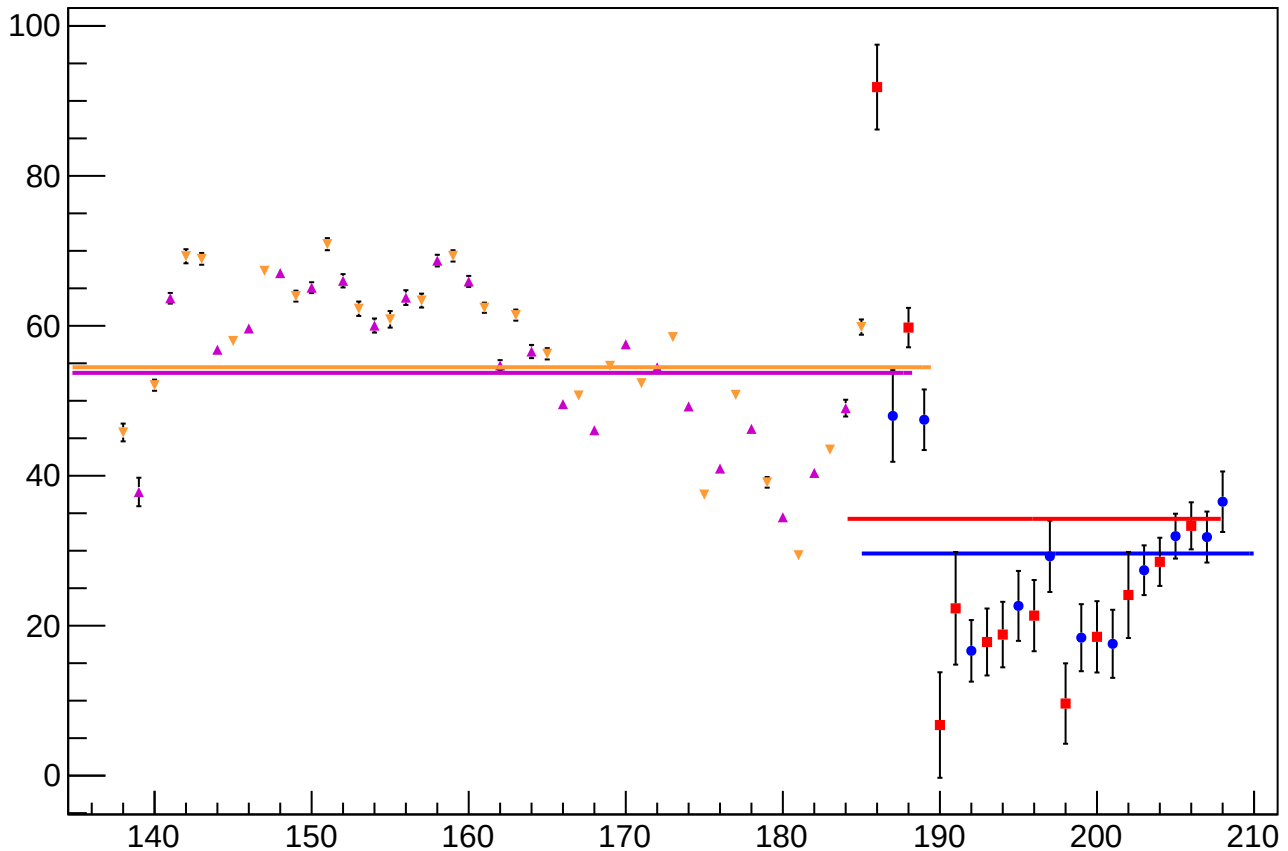
Right: -80.814 ± 0.484 χ^2/NDF : 2107.6/22

In: -52.110 ± 0.156 χ^2/NDF : 19163.4/33

Out: -53.476 ± 0.154 χ^2/NDF : 23260.9/36

All: -52.804 ± 0.110 χ^2/NDF : 42463.2/70

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 29.629 $\pm$ 1.207 χ^2 /NDF: 58.5/10

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.255 $\pm$ 1.223 χ^2 /NDF: 287.2/11

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF: 4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

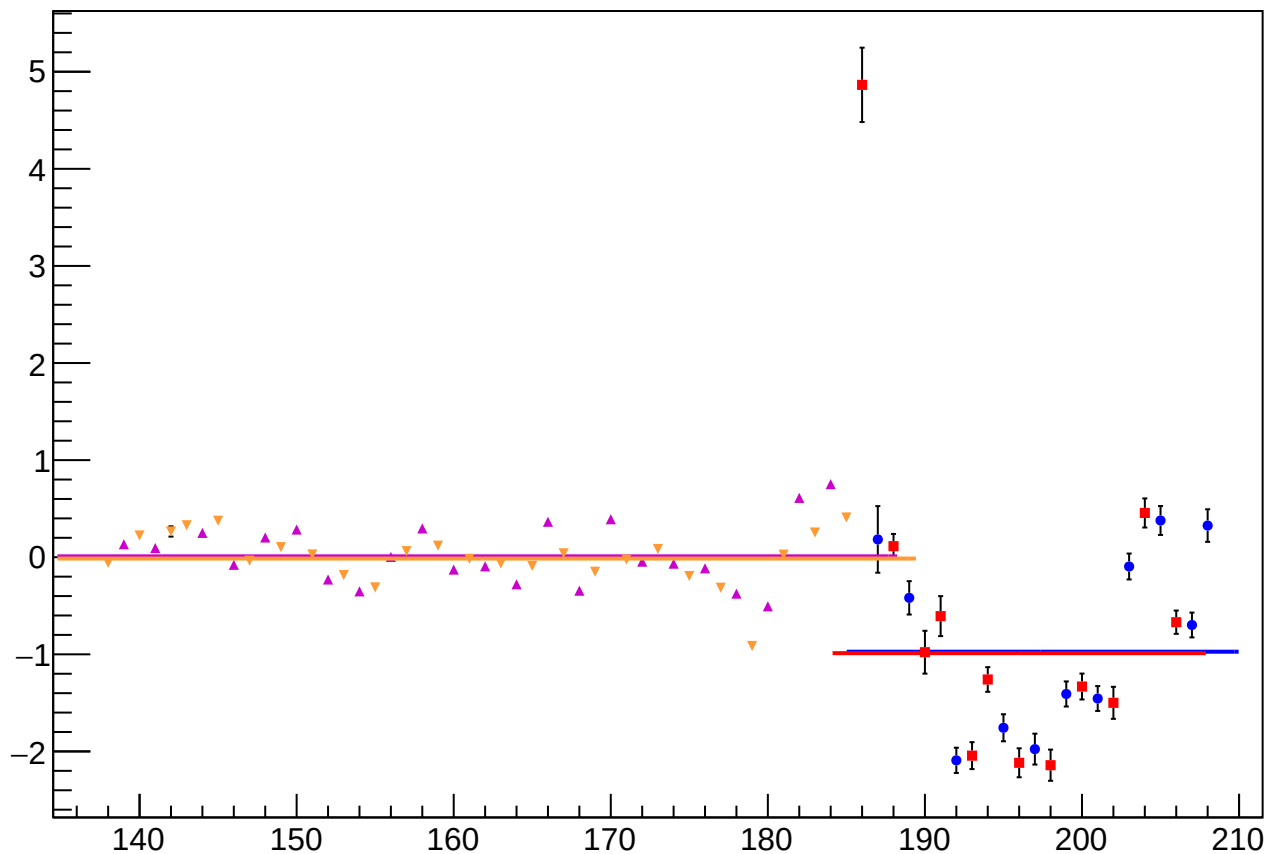
Right: 31.911 $\pm$ 0.859 χ^2 /NDF: 352.9/22

In: 53.390 $\pm$ 0.142 χ^2 /NDF: 5037.1/33

Out: 54.214 $\pm$ 0.139 χ^2 /NDF: 6823.7/36

All: 53.810 $\pm$ 0.099 χ^2 /NDF: 11877.9/70

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.973 ± 0.044 χ^2/NDF : 383.0/10

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.988 ± 0.044 χ^2/NDF : 601.2/11

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

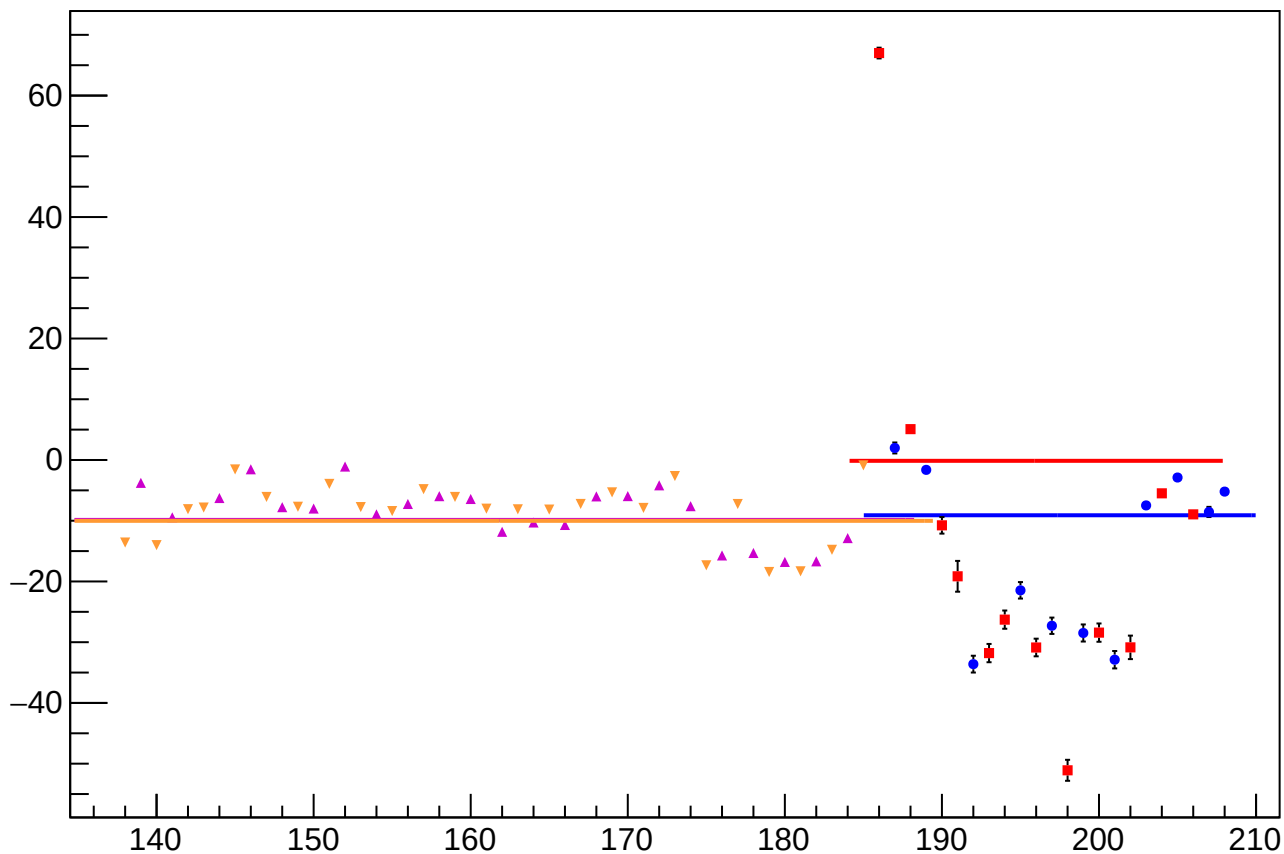
Right: -0.981 ± 0.031 χ^2/NDF : 984.2/22

In: -0.012 ± 0.006 χ^2/NDF : 3086.3/33

Out: -0.034 ± 0.006 χ^2/NDF : 2738.2/36

All: -0.023 ± 0.005 χ^2/NDF : 5830.5/70

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.101 ± 0.280 $\chi^2/\text{NDF}: 1410.2/10$

Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$

Right Out: -0.137 ± 0.276 $\chi^2/\text{NDF}: 8862.5/11$

Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$

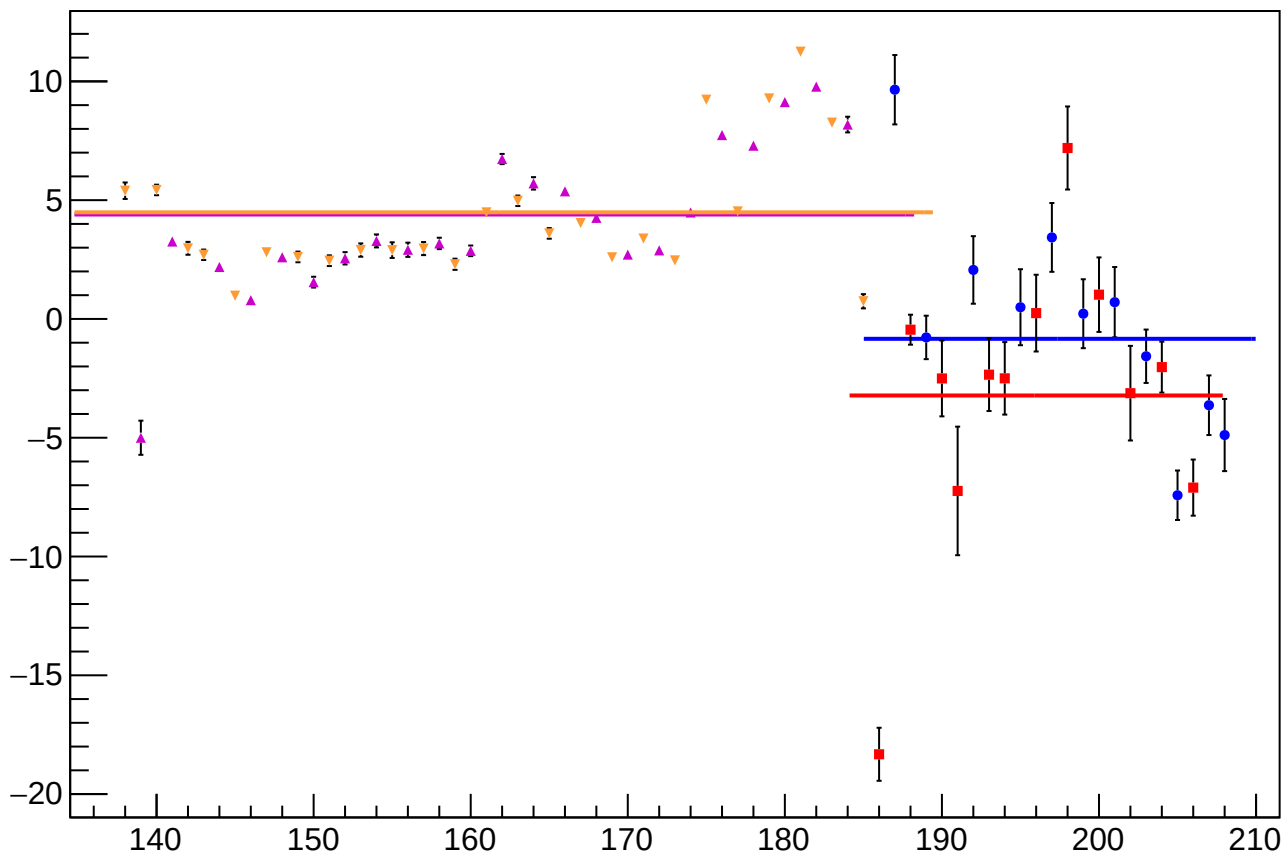
Right: -4.548 ± 0.196 $\chi^2/\text{NDF}: 10793.5/22$

In: -9.840 ± 0.051 $\chi^2/\text{NDF}: 10762.8/33$

Out: -9.694 ± 0.050 $\chi^2/\text{NDF}: 22658.8/36$

All: -9.766 ± 0.035 $\chi^2/\text{NDF}: 33425.9/70$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.836 ± 0.385 χ^2/NDF : 119.2/10

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -3.222 ± 0.361 χ^2/NDF : 264.8/11

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

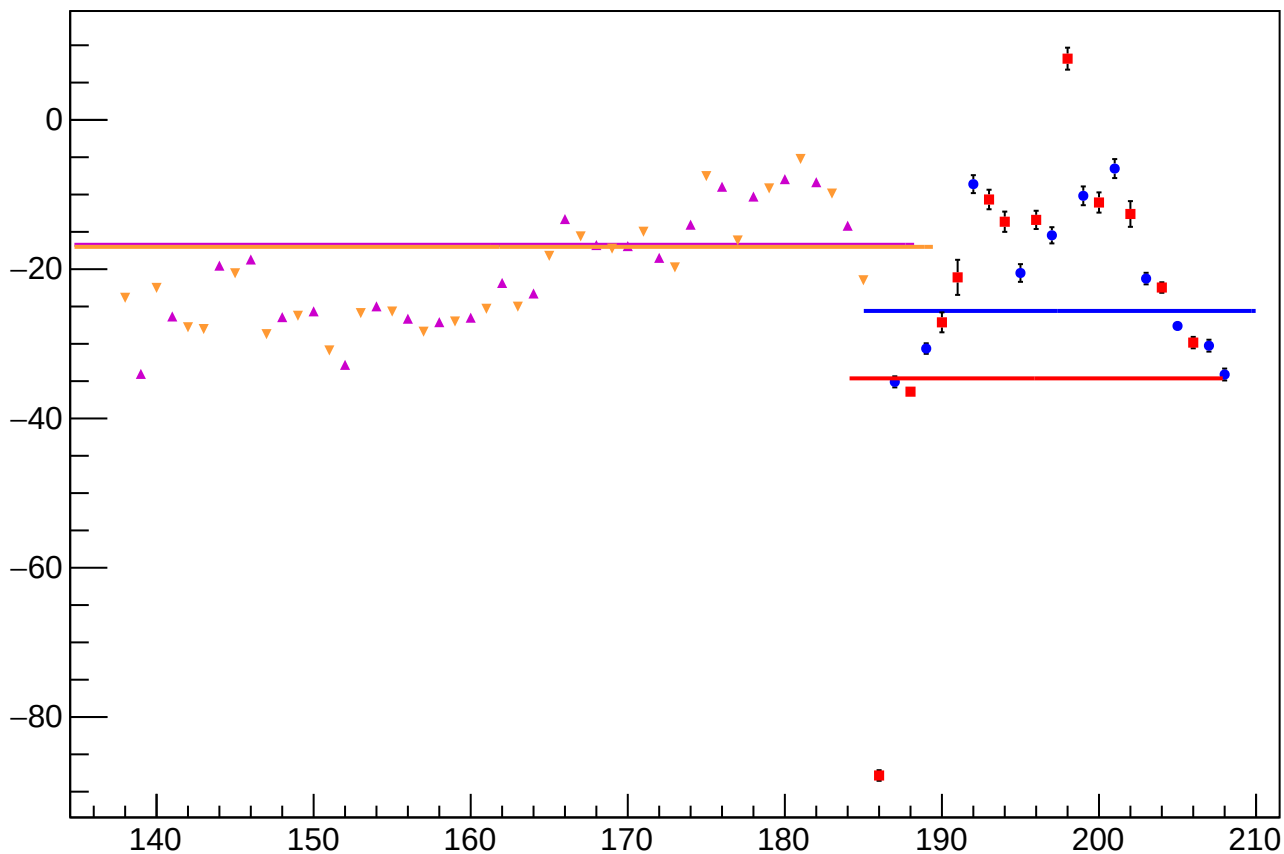
Right: -2.105 ± 0.264 χ^2/NDF : 404.4/22

In: 4.337 ± 0.041 χ^2/NDF : 4532.1/33

Out: 4.392 ± 0.040 χ^2/NDF : 5546.6/36

All: 4.365 ± 0.029 χ^2/NDF : 10079.6/70

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -25.593 ± 0.263 χ^2/NDF : 1084.6/10

Left Out: -17.008 ± 0.051 χ^2/NDF : 22094.7/24

Right Out: -34.628 ± 0.240 χ^2/NDF : 8217.1/11

Left In: -16.732 ± 0.052 χ^2/NDF : 18777.2/22

Left: -16.871 ± 0.036 χ^2/NDF : 40886.5/47

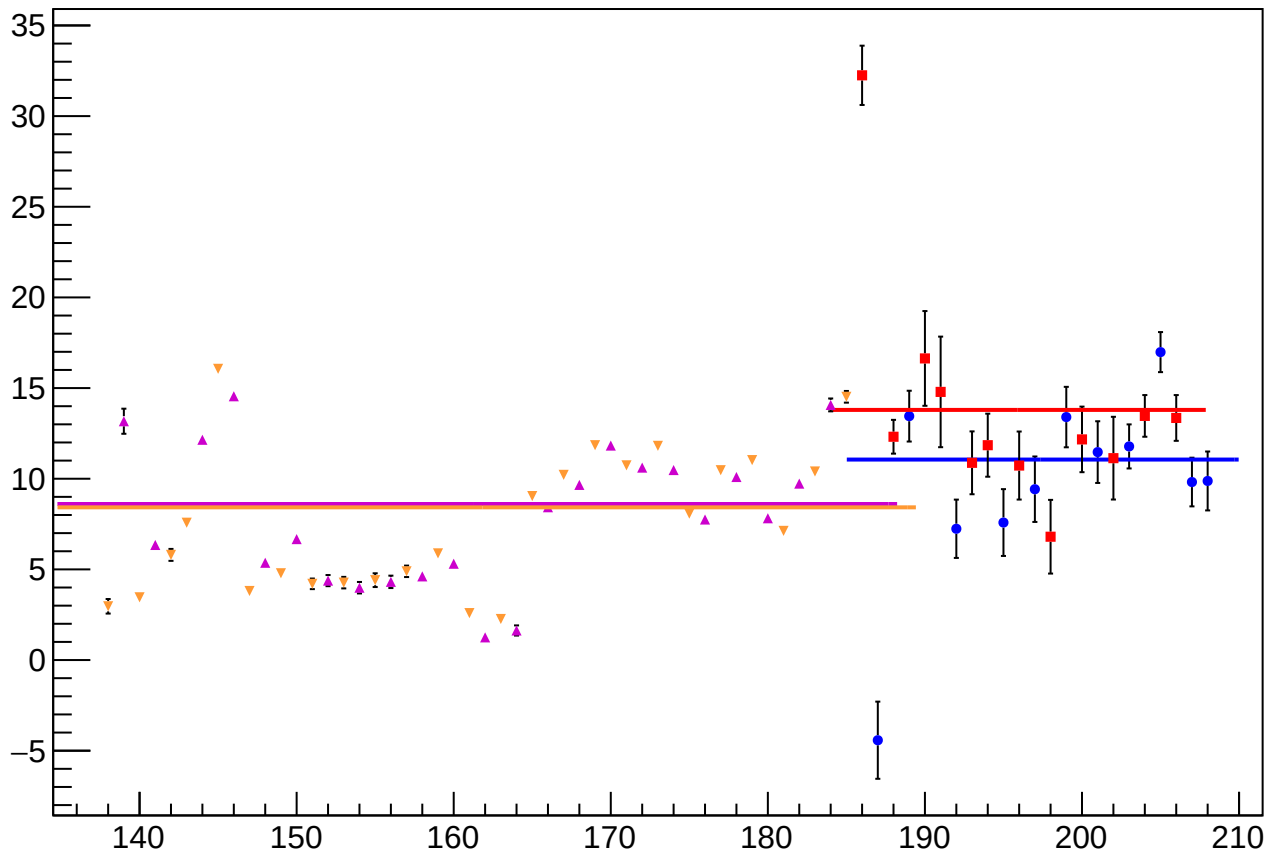
Right: -30.523 ± 0.177 χ^2/NDF : 9944.3/22

In: -17.059 ± 0.051 χ^2/NDF : 20953.0/33

Out: -17.770 ± 0.050 χ^2/NDF : 35458.2/36

All: -17.419 ± 0.036 χ^2/NDF : 56511.4/70

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.057 ± 0.454 χ^2/NDF : 98.4/10

Left Out: 8.422 ± 0.046 χ^2/NDF : 6470.1/24

Right Out: 13.796 ± 0.454 χ^2/NDF : 152.2/11

Left In: 8.606 ± 0.046 χ^2/NDF : 5504.2/22

Left: 8.513 ± 0.032 χ^2/NDF : 11982.4/47

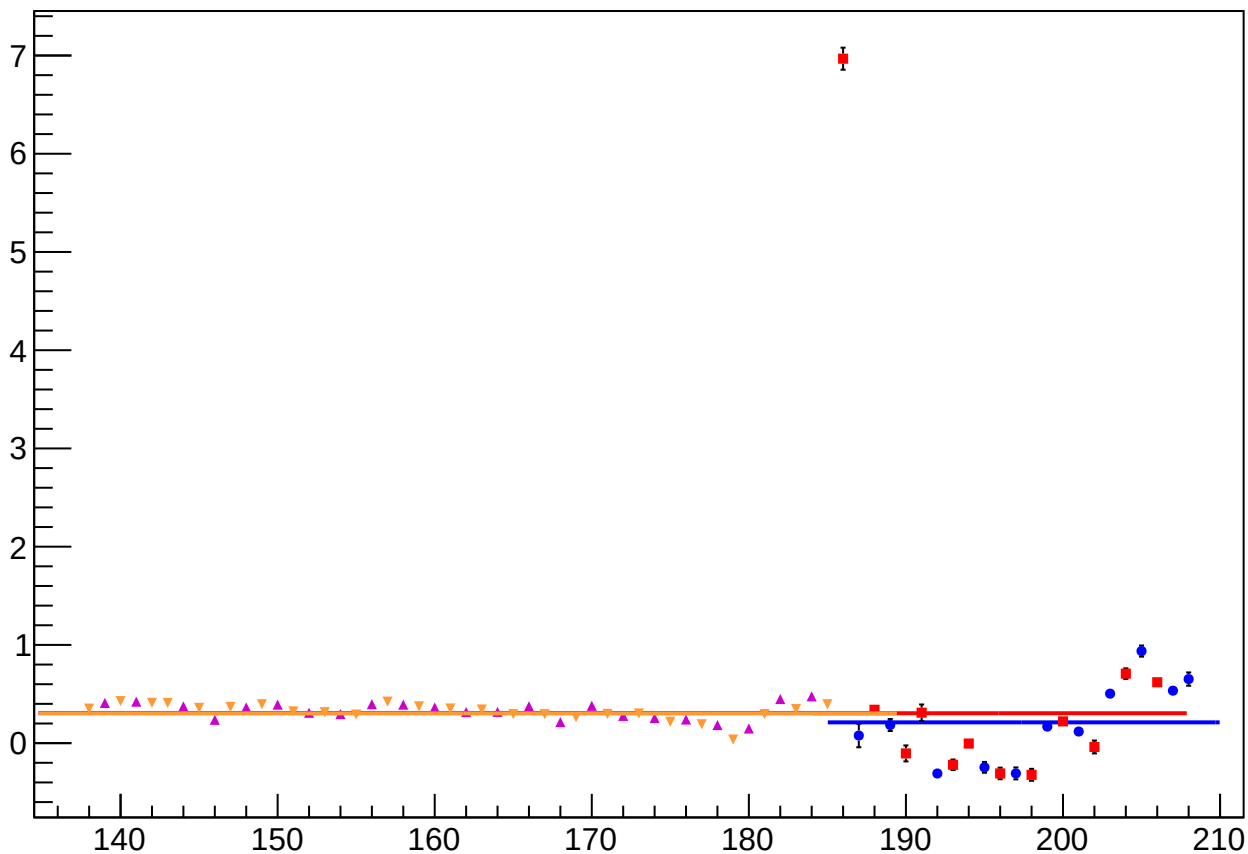
Right: 12.426 ± 0.321 χ^2/NDF : 268.7/22

In: 8.632 ± 0.046 χ^2/NDF : 5631.5/33

Out: 8.476 ± 0.045 χ^2/NDF : 6761.0/36

All: 8.552 ± 0.032 χ^2/NDF : 12398.3/70

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.212 ± 0.017 $\chi^2/\text{NDF}: 534.3/10$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.304 ± 0.017 $\chi^2/\text{NDF}: 4028.4/11$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

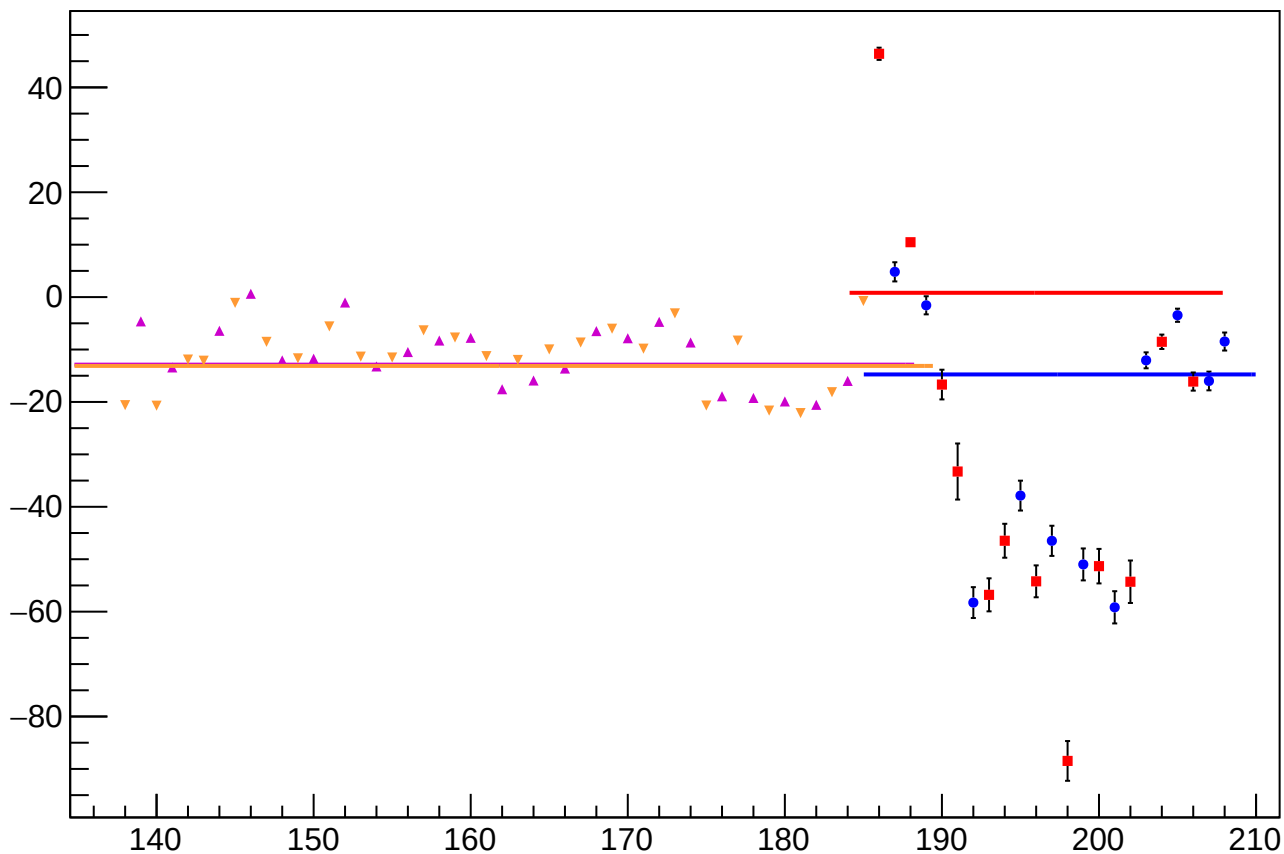
Right: 0.258 ± 0.012 $\chi^2/\text{NDF}: 4577.9/22$

In: 0.306 ± 0.002 $\chi^2/\text{NDF}: 2265.5/33$

Out: 0.303 ± 0.002 $\chi^2/\text{NDF}: 5619.3/36$

All: 0.304 ± 0.001 $\chi^2/\text{NDF}: 7886.0/70$

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.751 ± 0.585 $\chi^2/\text{NDF}: 1026.7/10$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: 0.820 ± 0.540 $\chi^2/\text{NDF}: 3720.9/11$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

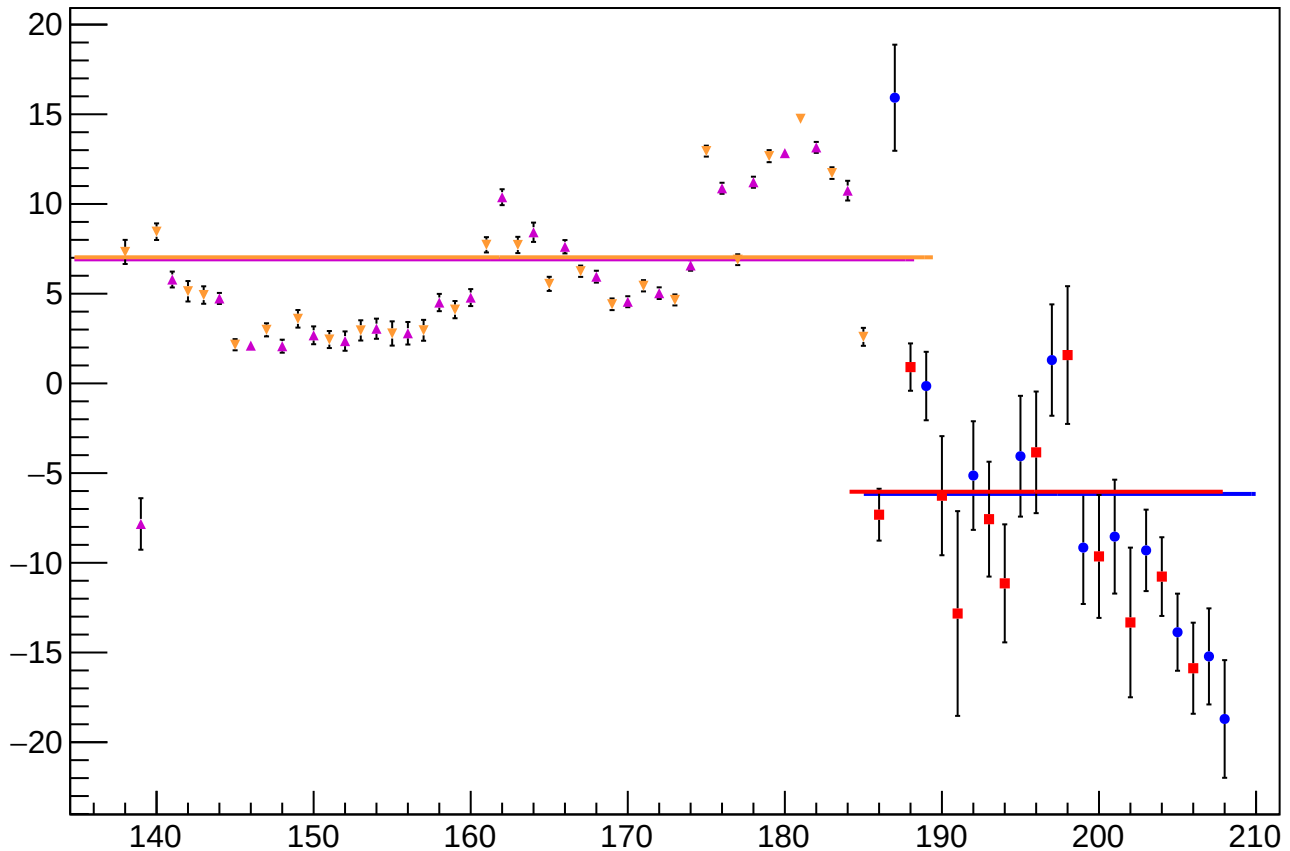
Right: -6.341 ± 0.397 $\chi^2/\text{NDF}: 5130.6/22$

In: -12.933 ± 0.094 $\chi^2/\text{NDF}: 5812.8/33$

Out: -12.717 ± 0.092 $\chi^2/\text{NDF}: 10347.0/36$

All: -12.823 ± 0.066 $\chi^2/\text{NDF}: 16162.5/70$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.161 ± 0.807 χ^2/NDF : 114.3/10

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -6.038 ± 0.703 χ^2/NDF : 60.7/11

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

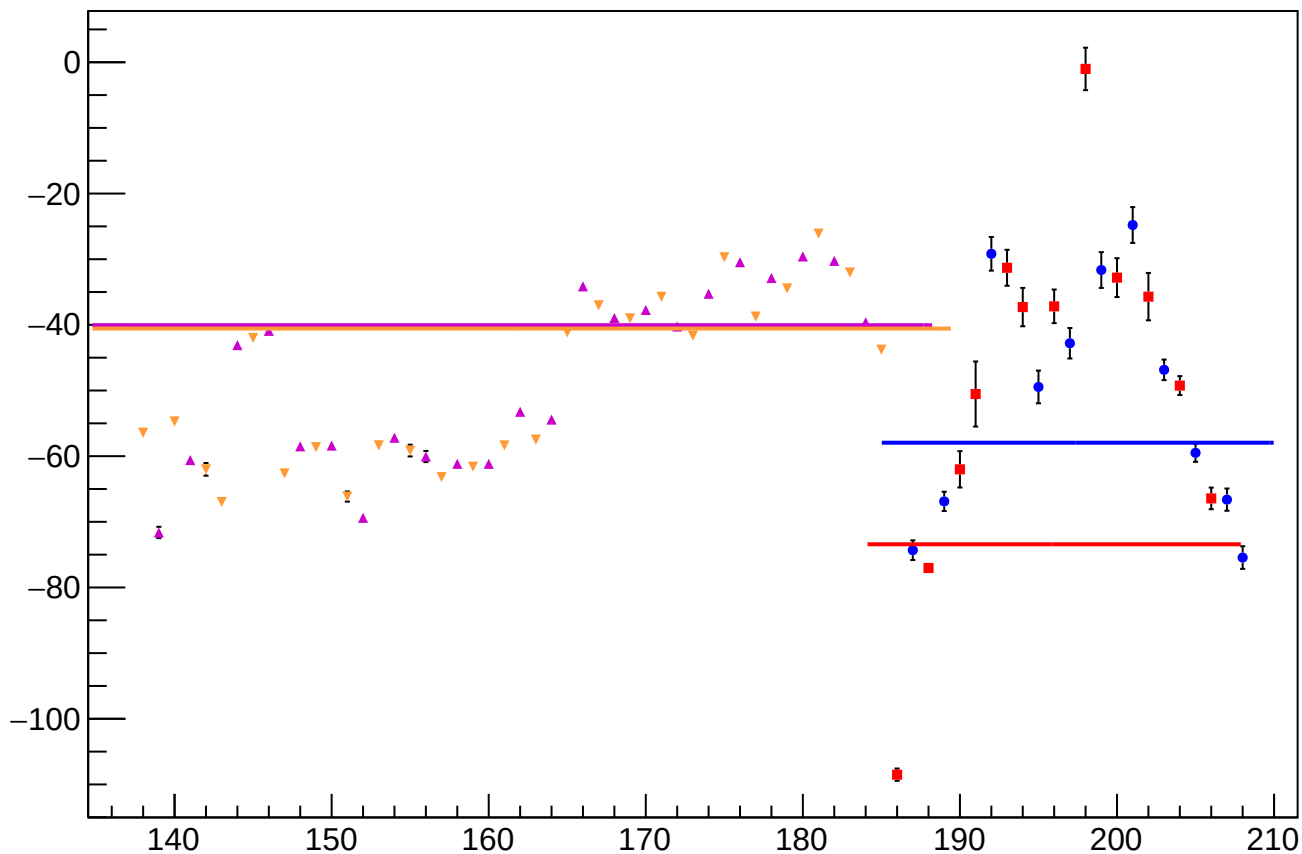
Right: -6.091 ± 0.530 χ^2/NDF : 175.1/22

In: 6.794 ± 0.077 χ^2/NDF : 2802.4/33

Out: 6.872 ± 0.077 χ^2/NDF : 3067.6/36

All: 6.833 ± 0.054 χ^2/NDF : 5870.5/70

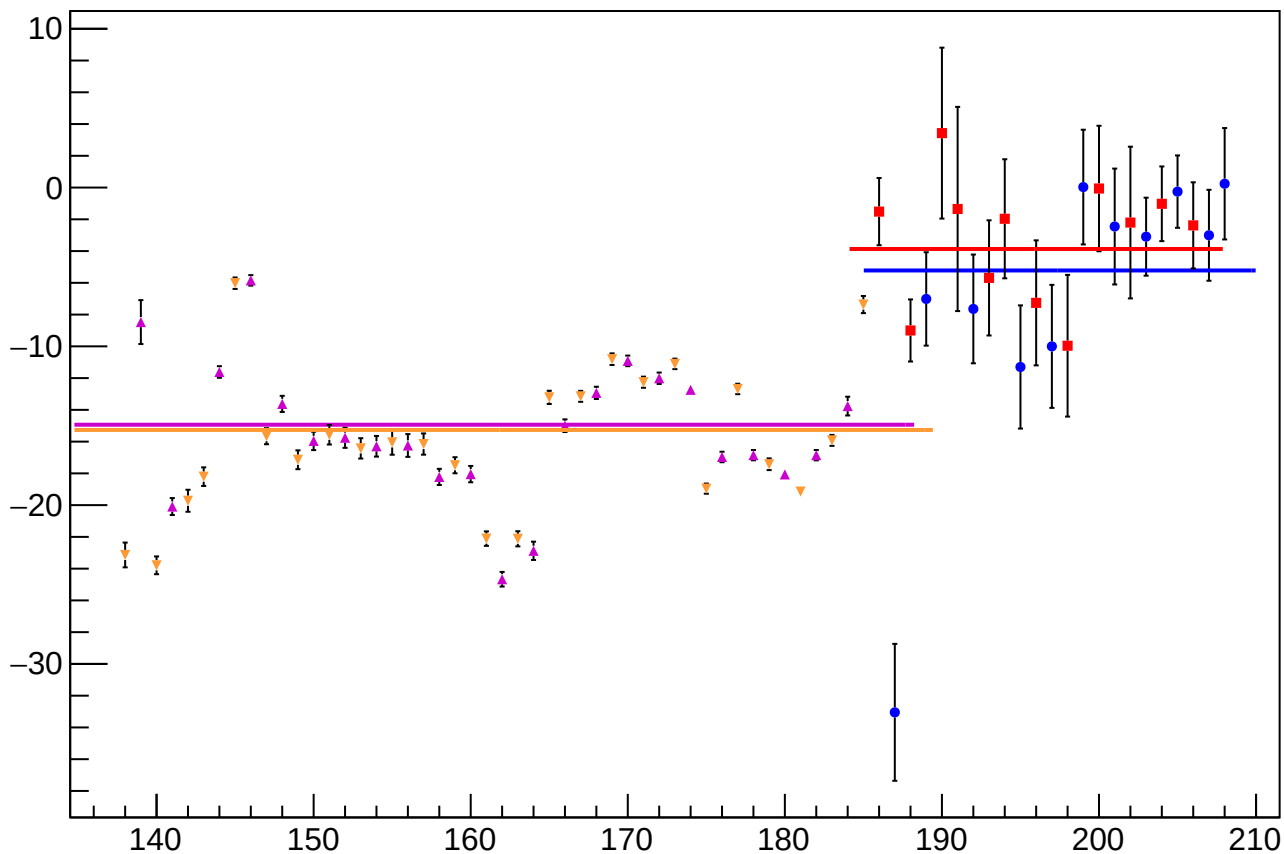
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.949 ± 0.551 χ^2/NDF : 757.7/10
 Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24
 Right Out: -73.421 ± 0.465 χ^2/NDF : 3155.6/11
 Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47
 Right: -66.979 ± 0.355 χ^2/NDF : 4374.2/22
 In: -40.578 ± 0.094 χ^2/NDF : 15710.6/33
 Out: -41.872 ± 0.093 χ^2/NDF : 23587.6/36
 All: -41.235 ± 0.066 χ^2/NDF : 39394.0/70

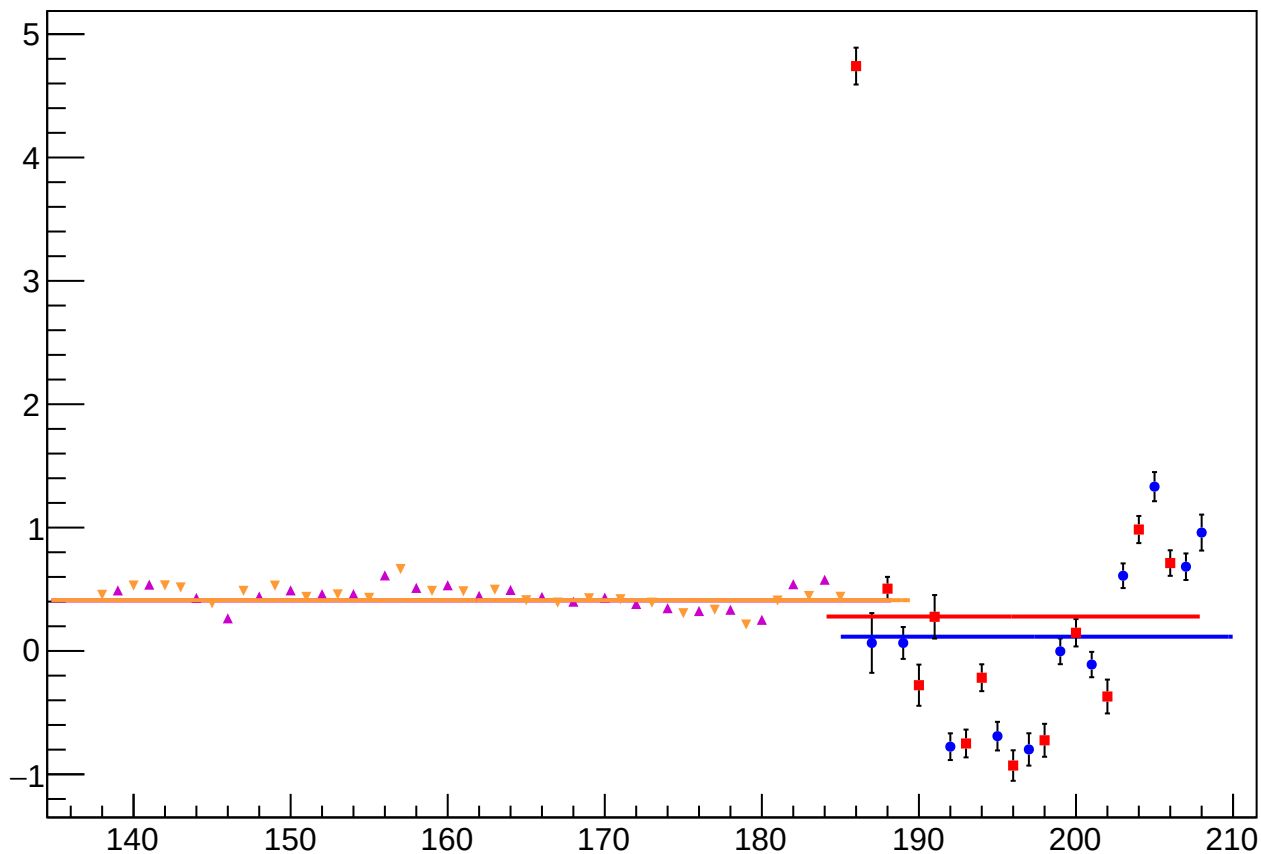
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.221 ± 0.953 $\chi^2/\text{NDF}: 57.7/10$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -3.868 ± 0.902 $\chi^2/\text{NDF}: 16.0/11$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -4.507 ± 0.655 $\chi^2/\text{NDF}: 74.8/22$
 In: -14.856 ± 0.086 $\chi^2/\text{NDF}: 2360.5/33$
 Out: -15.163 ± 0.086 $\chi^2/\text{NDF}: 2769.9/36$
 All: -15.011 ± 0.061 $\chi^2/\text{NDF}: 5136.7/70$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



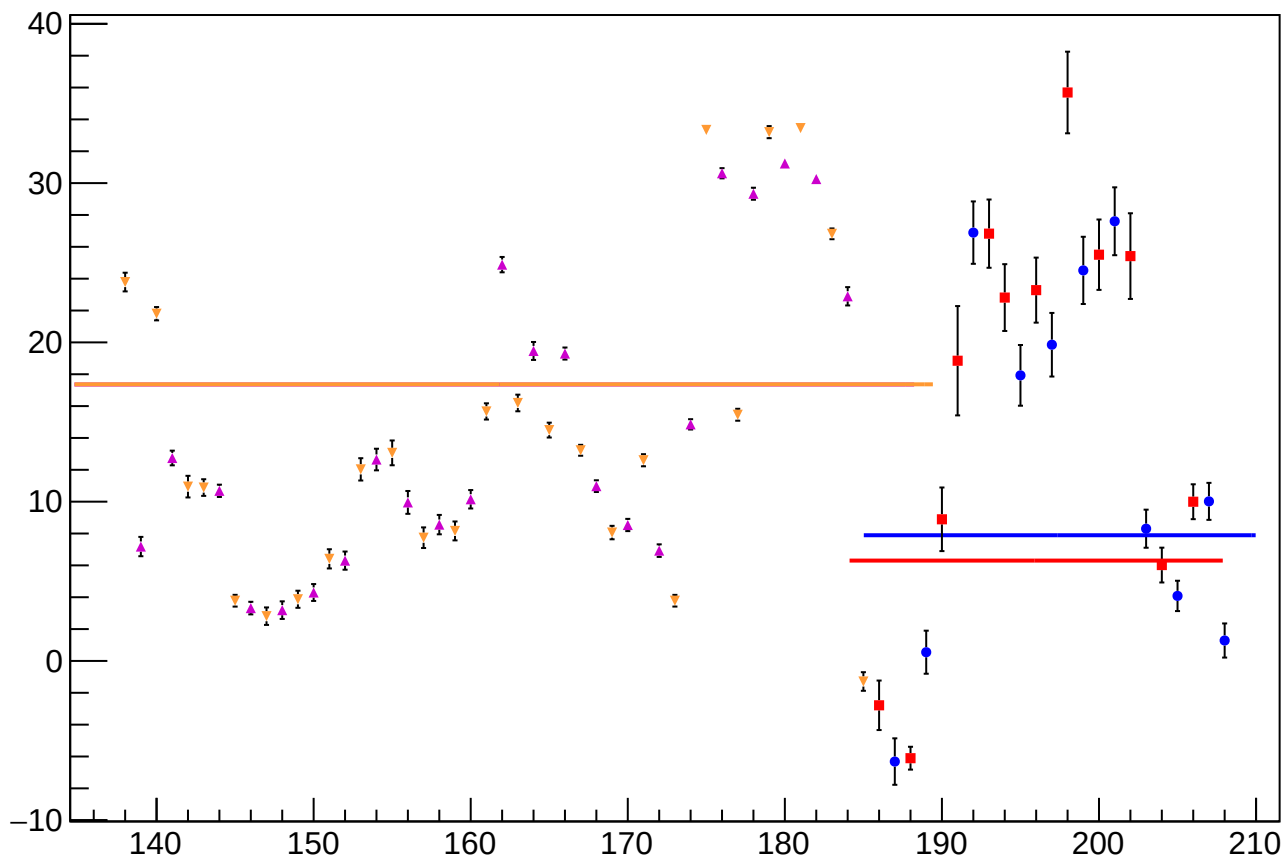
Left: 0.410+/-0.003 χ^2/NDF : 986.7/47
 Right: 0.199+/-0.025 χ^2/NDF : 1620.8/22

Right In: 0.116+/-0.036 χ^2/NDF : 362.7/10
 Left Out: 0.411+/-0.004 χ^2/NDF : 428.7/24
 Right Out: 0.279+/-0.035 χ^2/NDF : 1247.3/11
 Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

In: 0.406+/-0.004 χ^2/NDF : 987.6/33
 Out: 0.410+/-0.004 χ^2/NDF : 1690.2/36

All: 0.408+/-0.003 χ^2/NDF : 2678.3/70

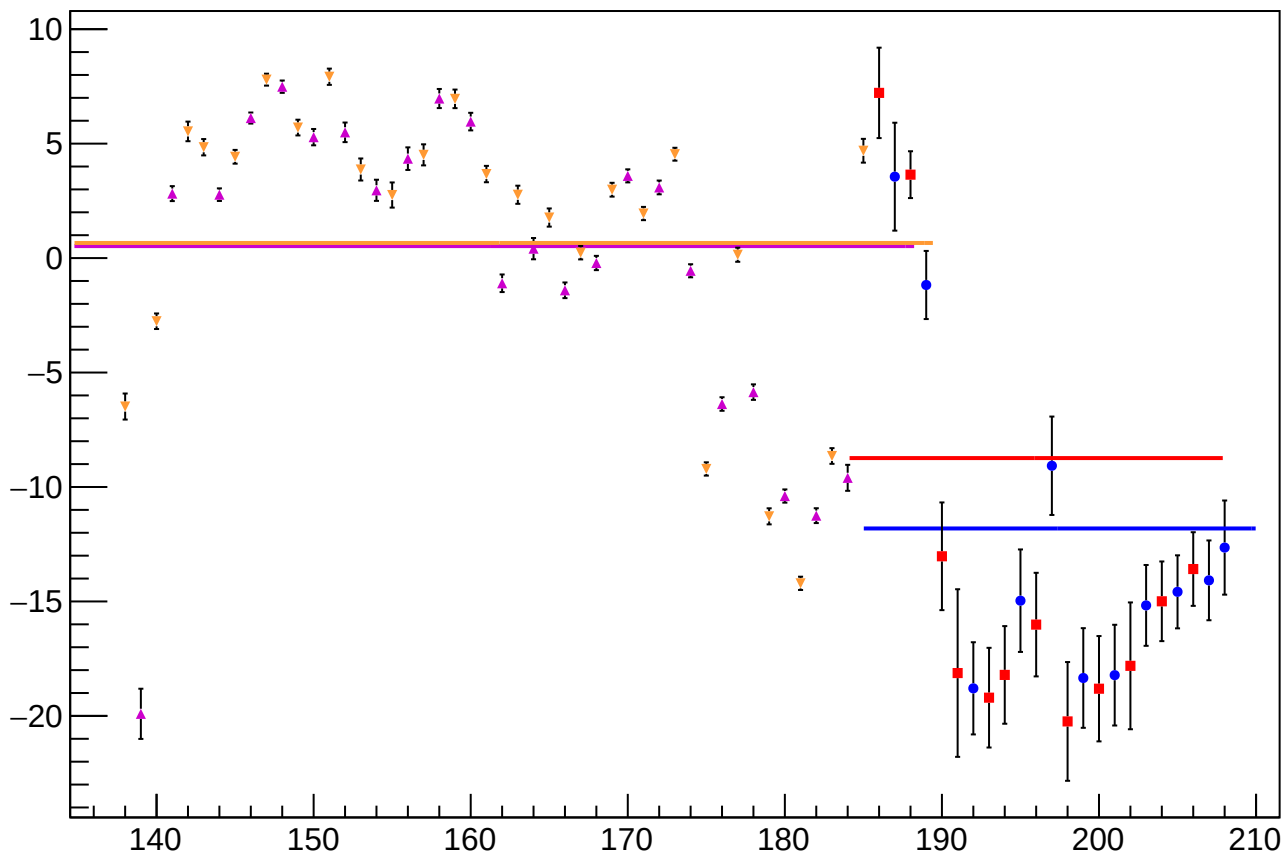
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.892 ± 0.420 $\chi^2/\text{NDF}: 487.3/10$
 Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$
 Right Out: 6.301 ± 0.425 $\chi^2/\text{NDF}: 840.8/11$
 Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$
 Right: 7.105 ± 0.299 $\chi^2/\text{NDF}: 1335.2/22$
 In: 16.950 ± 0.087 $\chi^2/\text{NDF}: 13717.9/33$
 Out: 16.920 ± 0.085 $\chi^2/\text{NDF}: 17830.4/36$
 All: 16.935 ± 0.061 $\chi^2/\text{NDF}: 31548.3/70$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$

Right: -10.204 ± 0.399 $\chi^2/\text{NDF}: 496.4/22$

In: 0.342 ± 0.070 $\chi^2/\text{NDF}: 7313.4/33$

Out: 0.515 ± 0.069 $\chi^2/\text{NDF}: 9185.3/36$

All: 0.430 ± 0.049 $\chi^2/\text{NDF}: 16501.8/70$

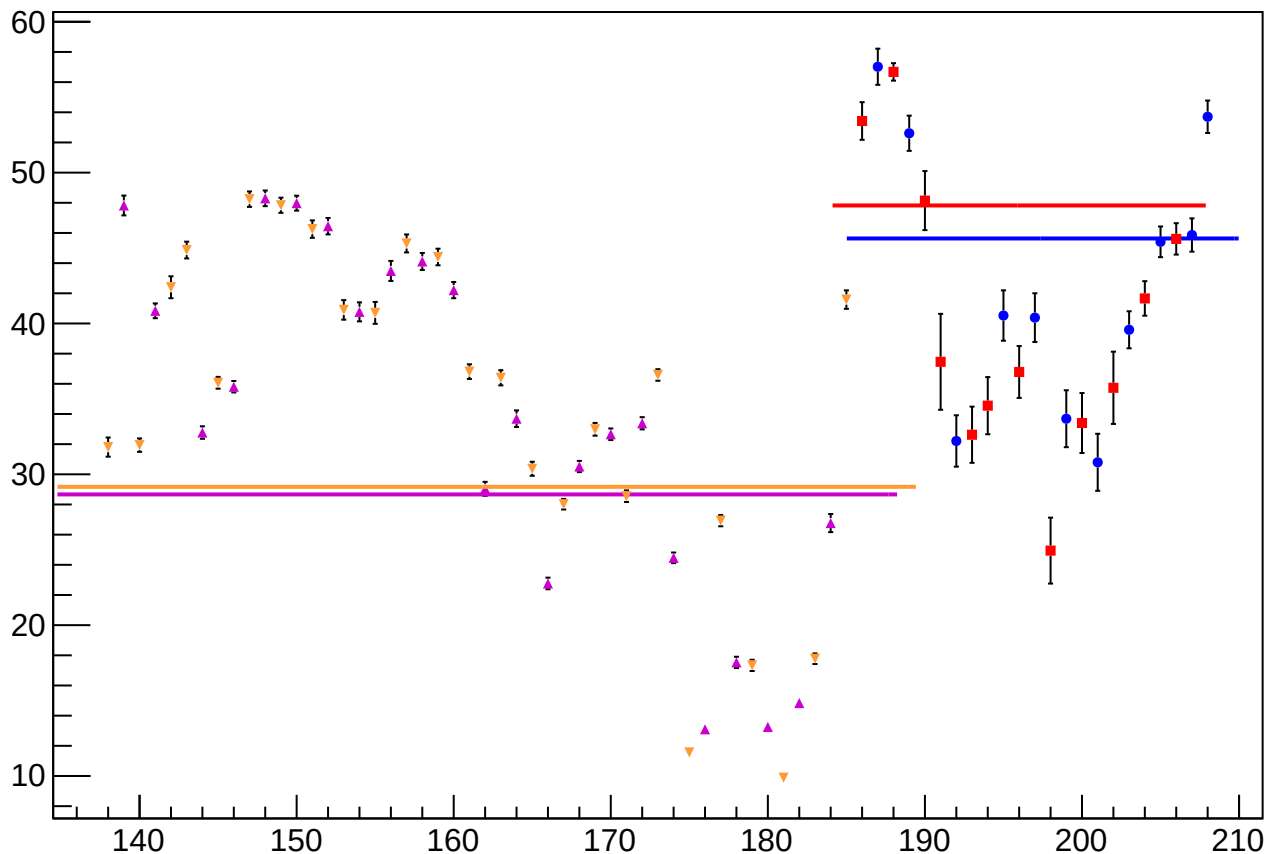
Right In: -11.812 ± 0.578 $\chi^2/\text{NDF}: 135.2/10$

Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$

Right Out: -8.737 ± 0.552 $\chi^2/\text{NDF}: 346.4/11$

Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

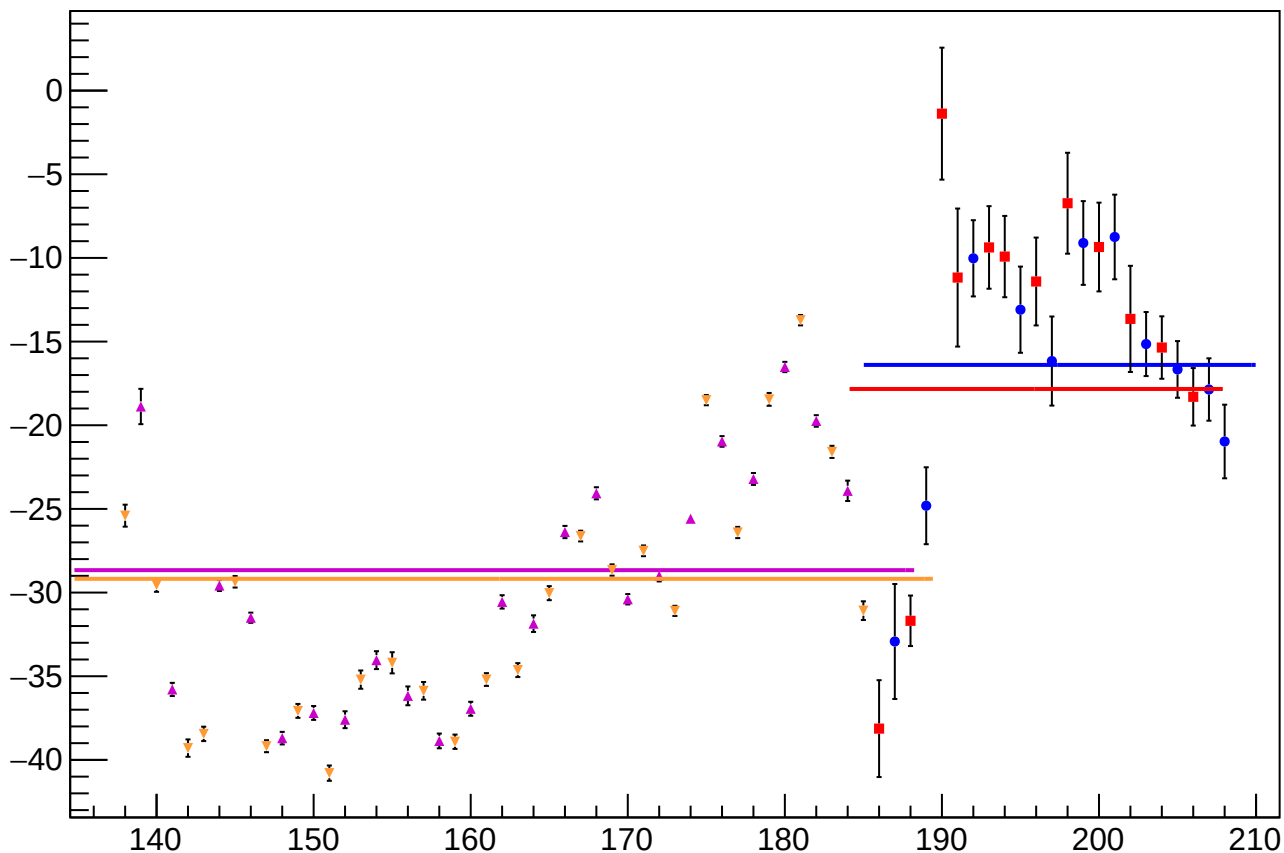
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.635 $\pm$ 0.396 χ^2 /NDF: 390.3/10
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 47.823 $\pm$ 0.372 χ^2 /NDF: 643.1/11
 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: 46.795 $\pm$ 0.271 χ^2 /NDF: 1049.7/22
 In: 29.487 $\pm$ 0.087 χ^2 /NDF:18989.2/33
 Out: 30.154 $\pm$ 0.085 χ^2 /NDF:21996.5/36
 All: 29.826 $\pm$ 0.061 χ^2 /NDF: 41015.5/70

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.394 ± 0.676 χ^2/NDF : 69.1/10

Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24

Right Out: -17.832 ± 0.684 χ^2/NDF : 209.2/11

Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47

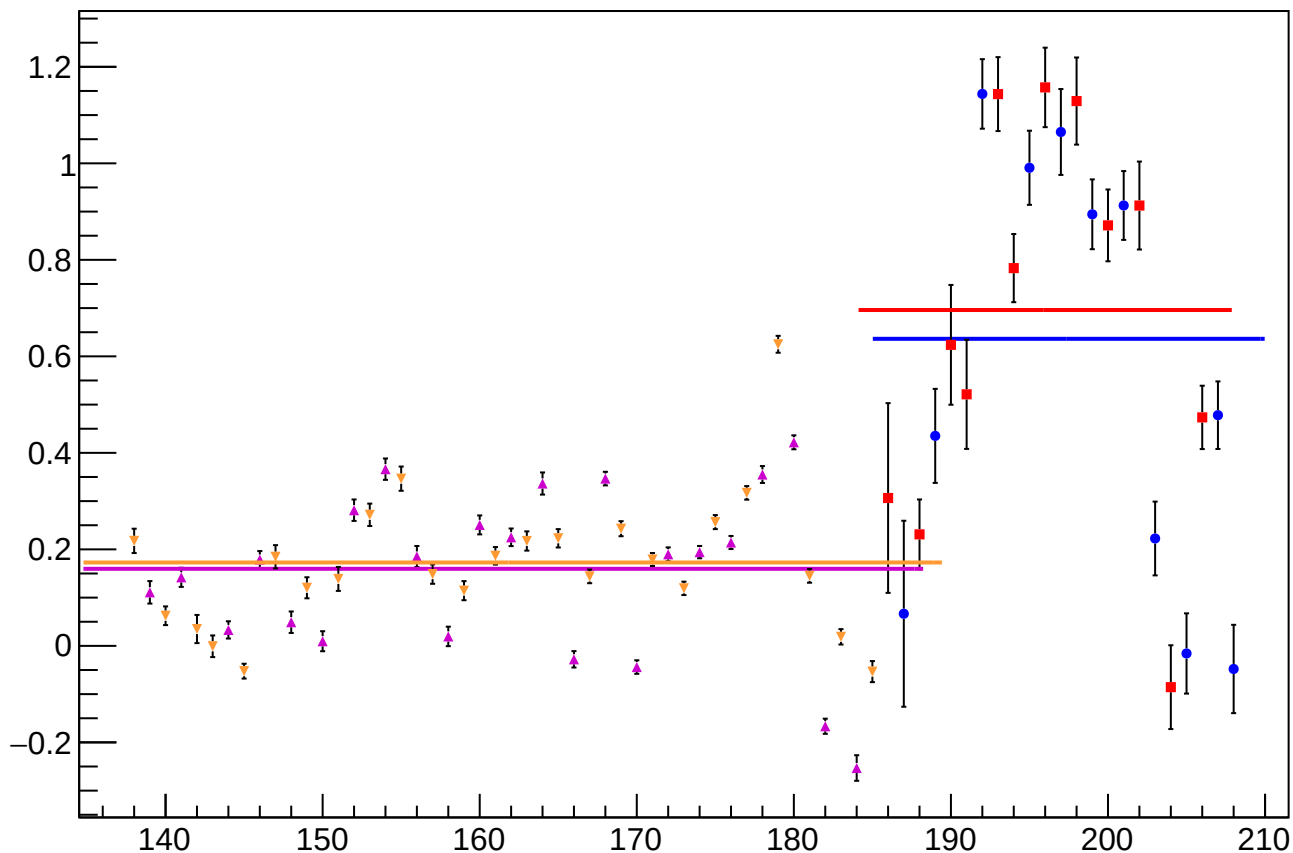
Right: -17.104 ± 0.481 χ^2/NDF : 280.5/22

In: -28.491 ± 0.079 χ^2/NDF : 7064.2/33

Out: -29.032 ± 0.078 χ^2/NDF : 9562.2/36

All: -28.767 ± 0.055 χ^2/NDF : 16650.1/70

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.636 $\pm$ 0.025 χ^2 /NDF: 286.7/10

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.696 $\pm$ 0.024 χ^2 /NDF: 241.7/11

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

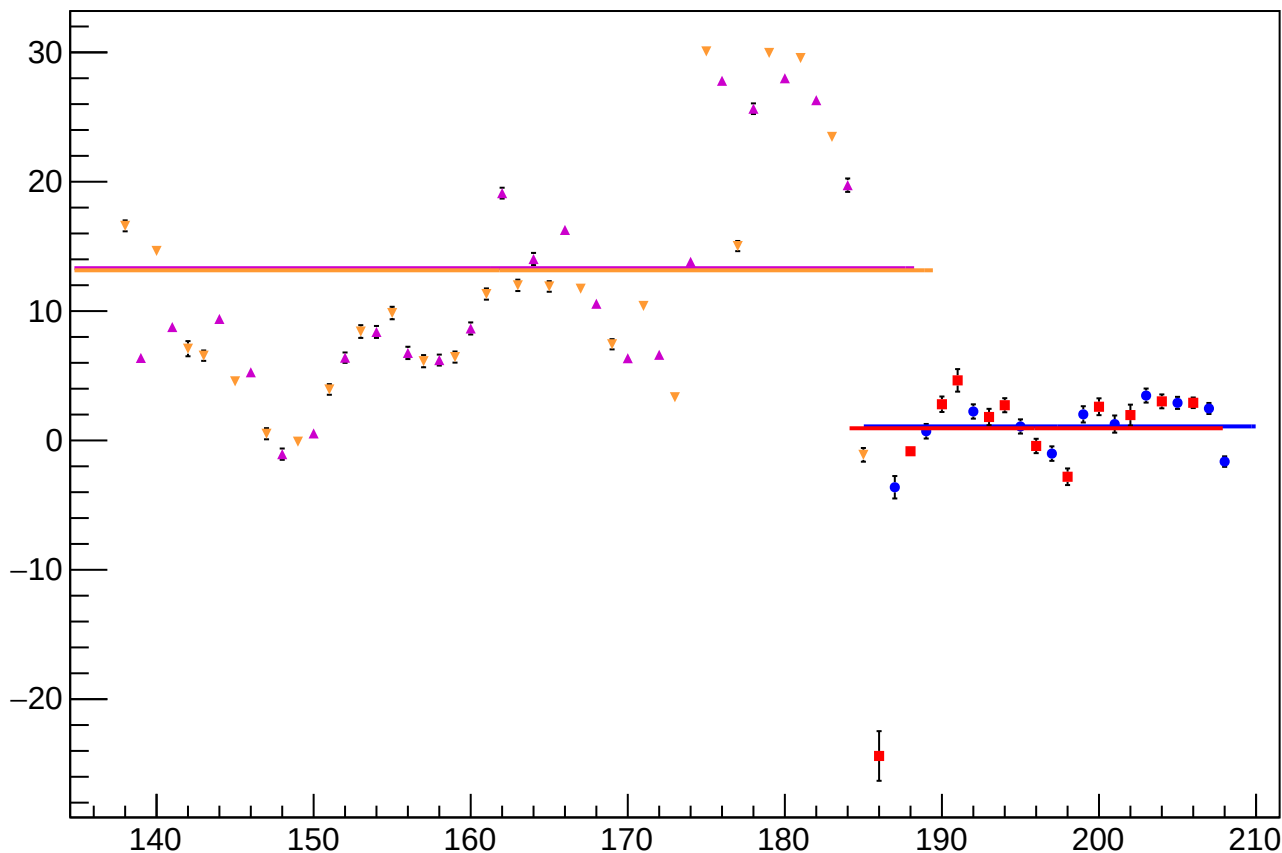
Right: 0.666 $\pm$ 0.017 χ^2 /NDF: 531.3/22

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2710.8/33

Out: 0.184 $\pm$ 0.004 χ^2 /NDF:2166.8/36

All: 0.177 $\pm$ 0.003 χ^2 /NDF: 4885.1/70

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.086 $\pm$ 0.161 χ^2 /NDF: 140.3/10

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.941 $\pm$ 0.155 χ^2 /NDF: 340.7/11

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

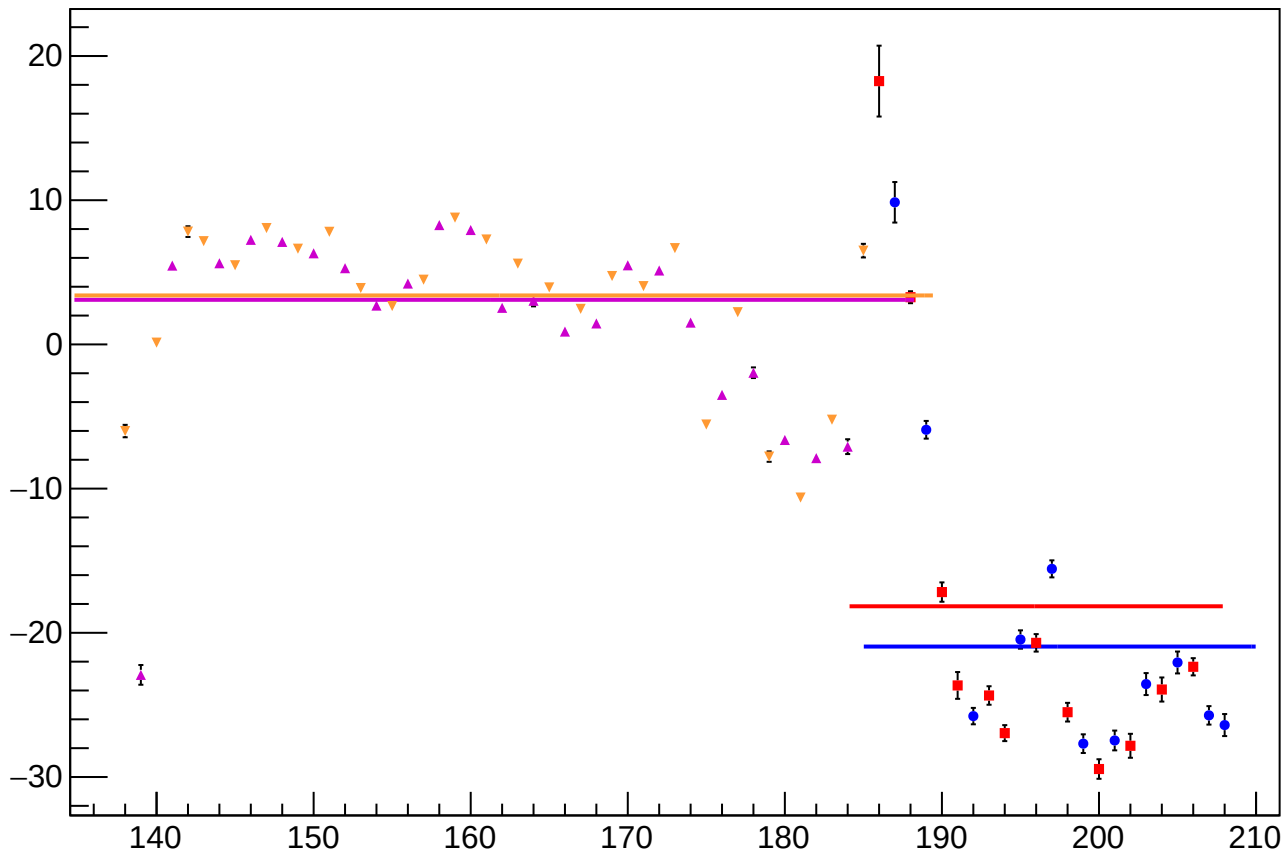
Right: 1.010 $\pm$ 0.112 χ^2 /NDF: 481.4/22

In: 11.034 $\pm$ 0.070 χ^2 /NDF:18810.7/33

Out: 10.815 $\pm$ 0.068 χ^2 /NDF:22467.3/36

All: 10.921 $\pm$ 0.048 χ^2 /NDF: 41283.1/70

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -20.953 ± 0.205 $\chi^2/\text{NDF}: 1553.8/10$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -18.161 ± 0.189 $\chi^2/\text{NDF}: 3932.4/11$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

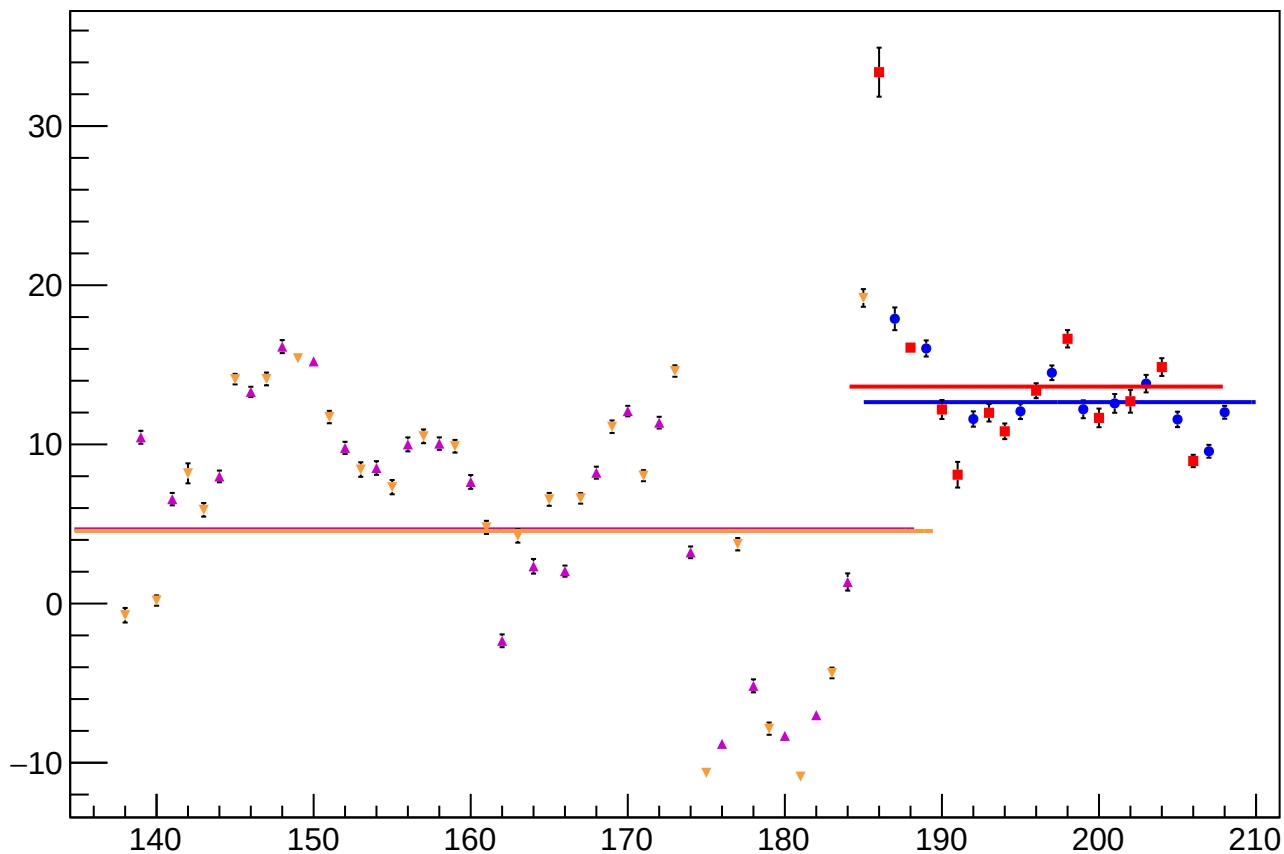
Right: -19.441 ± 0.139 $\chi^2/\text{NDF}: 5586.4/22$

In: 1.168 ± 0.058 $\chi^2/\text{NDF}: 21268.3/33$

Out: 1.517 ± 0.056 $\chi^2/\text{NDF}: 23916.7/36$

All: 1.350 ± 0.040 $\chi^2/\text{NDF}: 45203.8/70$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.655+/-0.149 χ^2 /NDF: 191.1/10

Left Out: 4.561+/-0.075 χ^2 /NDF:13592.1/24

Right Out: 13.630+/-0.136 χ^2 /NDF: 566.7/11

Left In: 4.662+/-0.077 χ^2 /NDF:11281.5/22

Left: 4.610+/-0.054 χ^2 /NDF: 24874.4/47

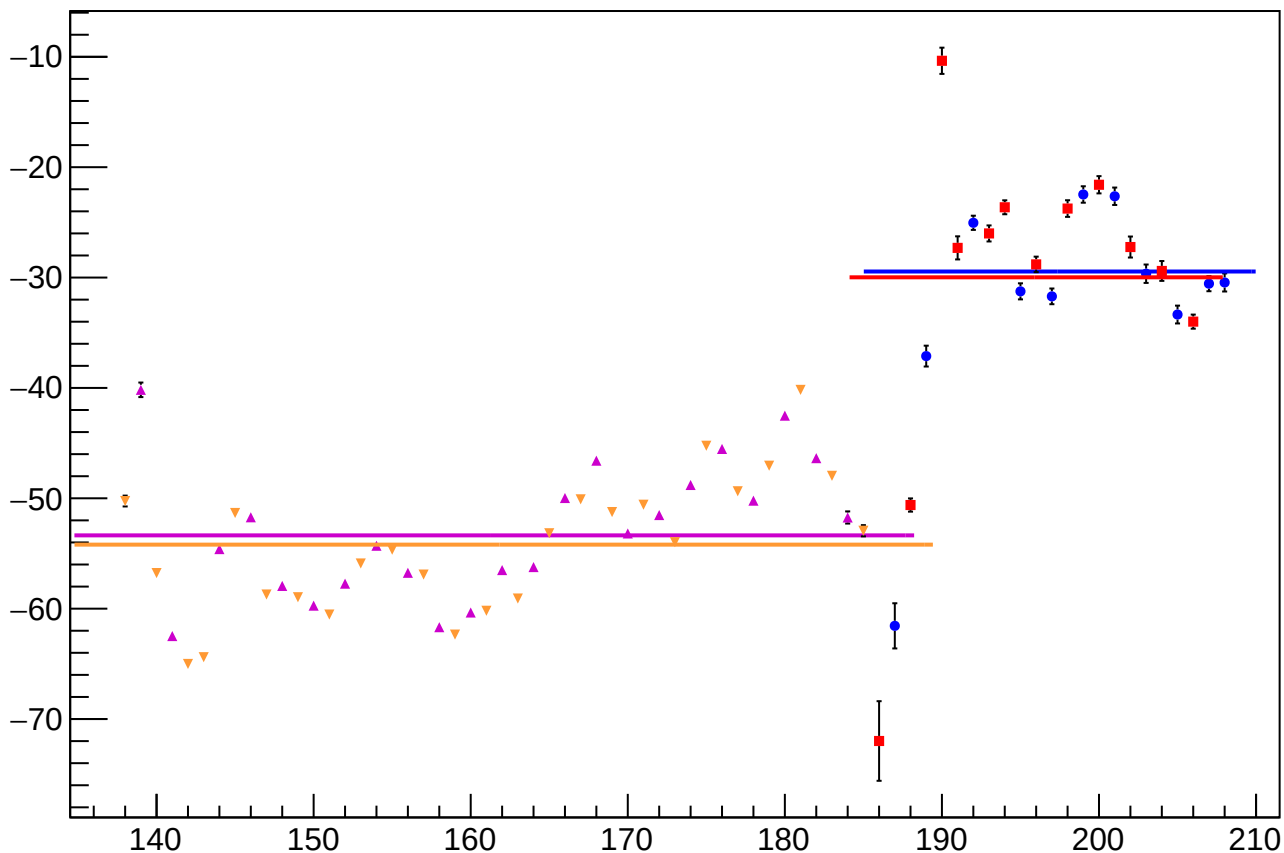
Right: 13.187+/-0.101 χ^2 /NDF: 781.1/22

In: 6.335+/-0.068 χ^2 /NDF:13739.9/33

Out: 6.688+/-0.066 χ^2 /NDF:17552.9/36

All: 6.518+/-0.047 χ^2 /NDF: 31306.6/70

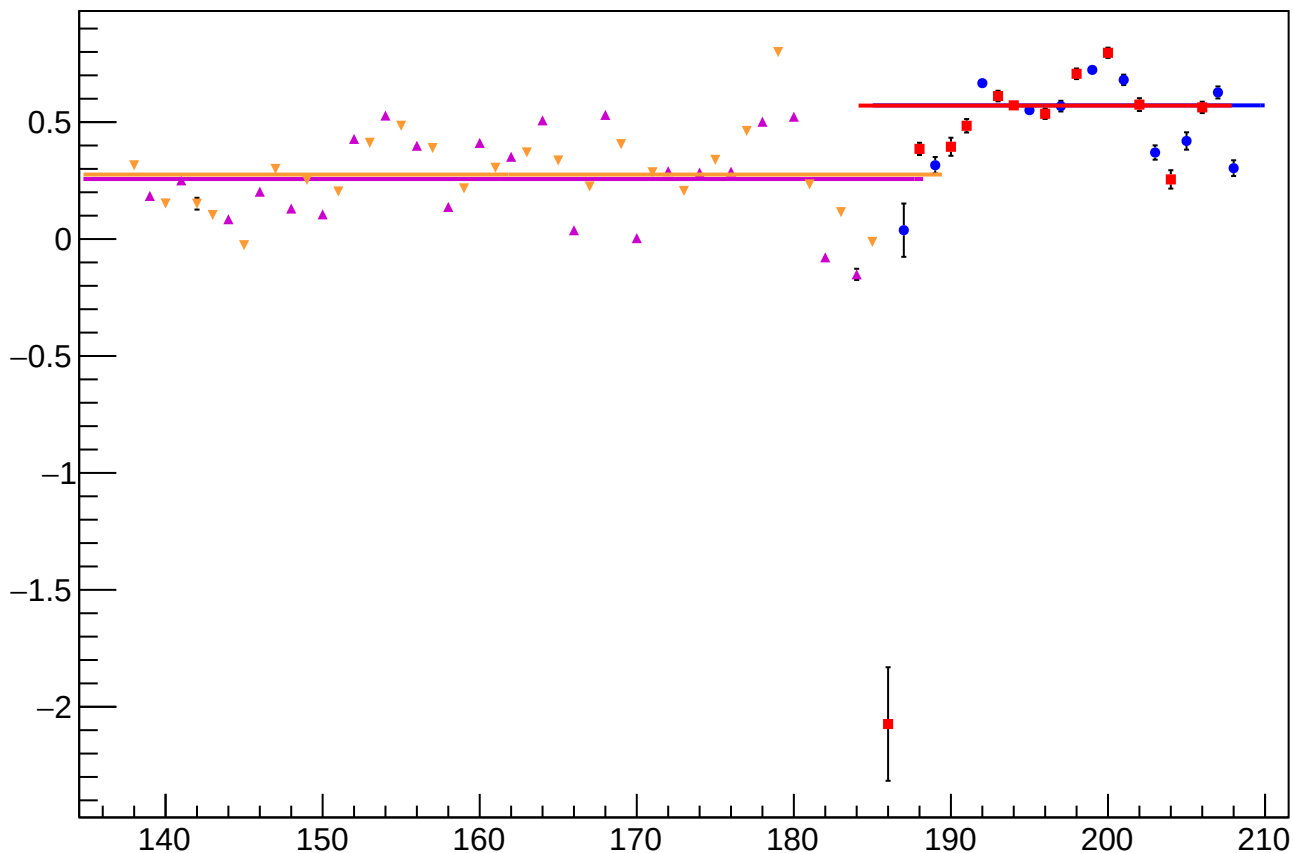
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.452 ± 0.238 $\chi^2/\text{NDF}: 564.9/10$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.978 ± 0.229 $\chi^2/\text{NDF}: 1966.7/11$
 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: -29.725 ± 0.165 $\chi^2/\text{NDF}: 2534.1/22$
 In: -51.531 ± 0.066 $\chi^2/\text{NDF}: 16763.0/33$
 Out: -52.317 ± 0.064 $\chi^2/\text{NDF}: 20760.1/36$
 All: -51.937 ± 0.046 $\chi^2/\text{NDF}: 37596.8/70$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.572 ± 0.008 χ^2/NDF : 300.0/10

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.571 ± 0.007 χ^2/NDF : 410.5/11

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

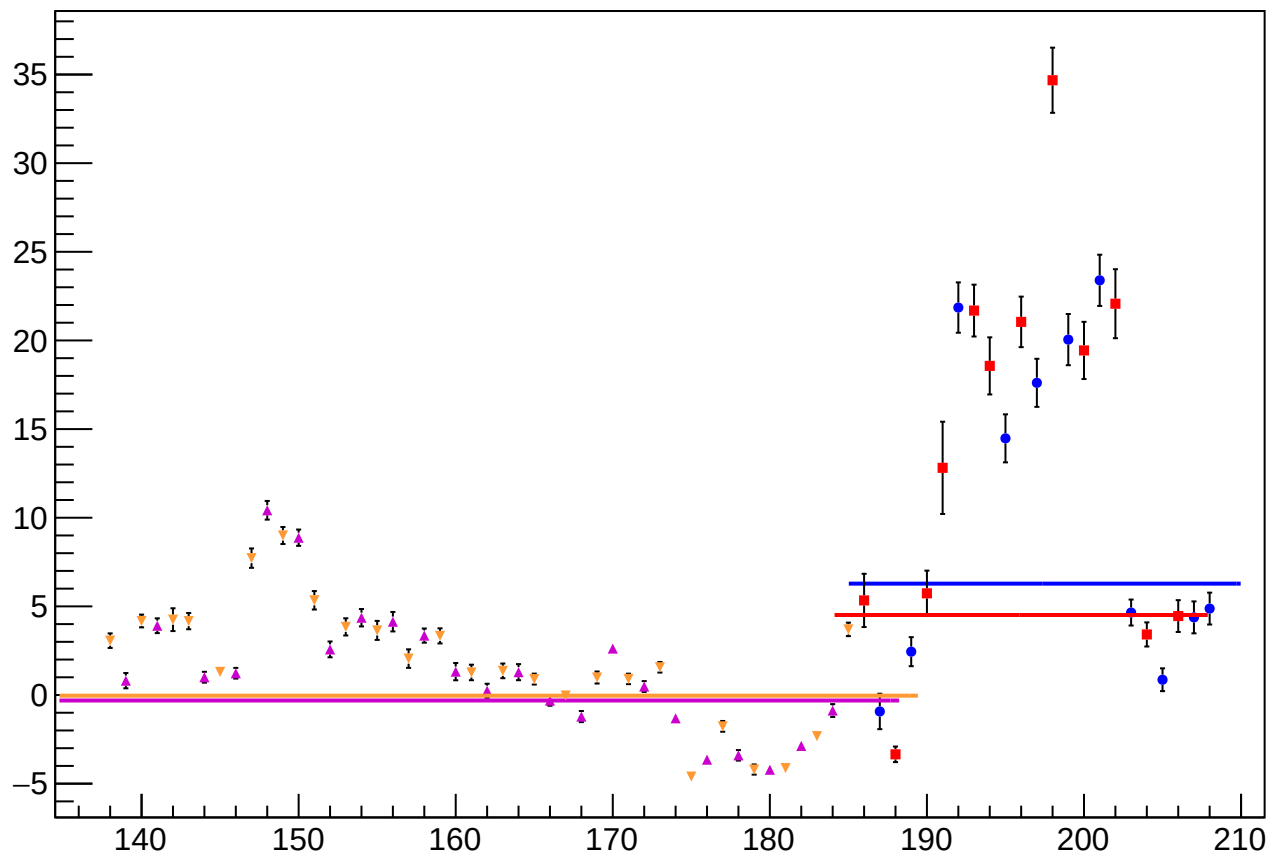
Right: 0.571 ± 0.005 χ^2/NDF : 710.5/22

In: 0.298 ± 0.003 χ^2/NDF : 5280.4/33

Out: 0.318 ± 0.003 χ^2/NDF : 4377.0/36

All: 0.309 ± 0.002 χ^2/NDF : 9682.2/70

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.282 $\pm$ 0.291 χ^2 /NDF: 614.7/10

Left Out: -0.037 $\pm$ 0.066 χ^2 /NDF:2637.7/24

Right Out: 4.514 $\pm$ 0.288 χ^2 /NDF: 1119.8/11

Left In: -0.310 $\pm$ 0.067 χ^2 /NDF:2250.5/22

Left: -0.171 $\pm$ 0.047 χ^2 /NDF: 4896.5/47

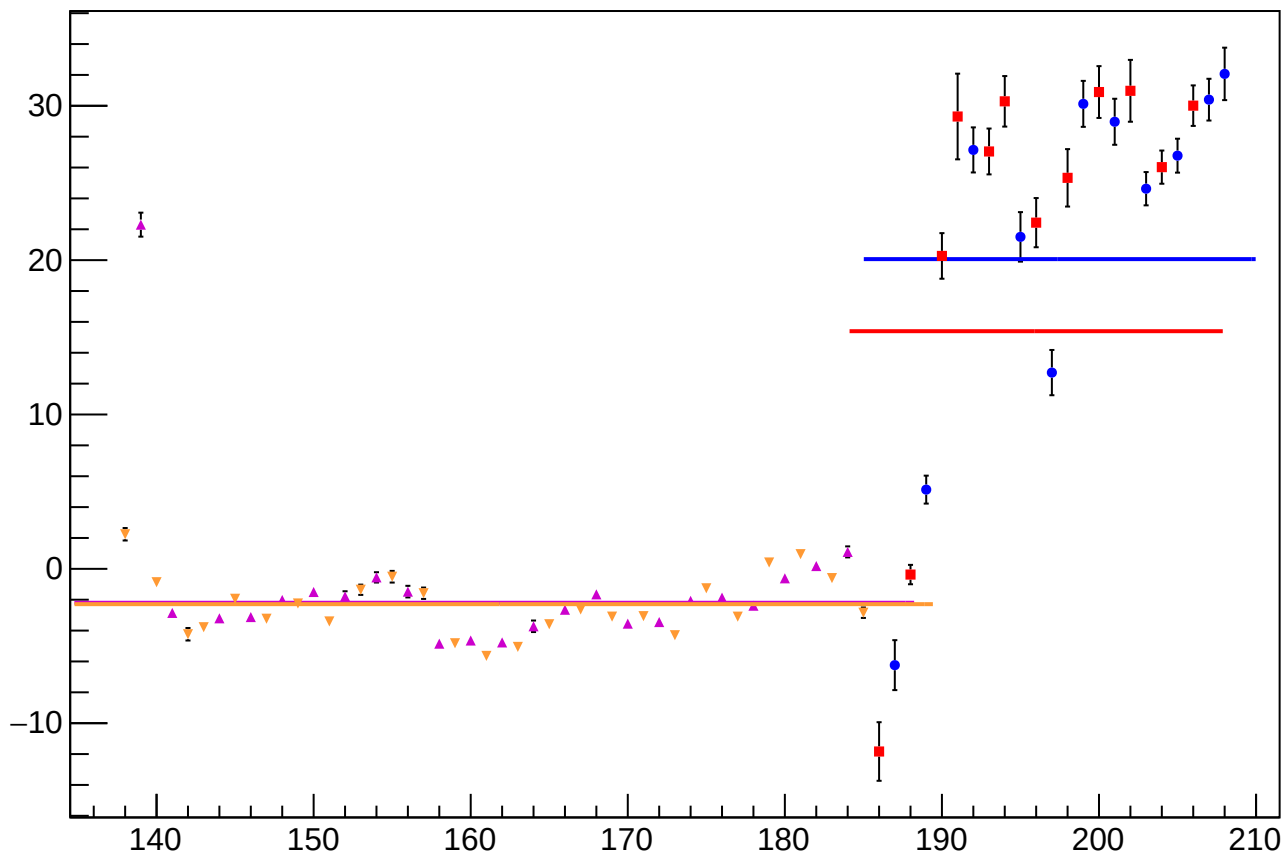
Right: 5.387 $\pm$ 0.205 χ^2 /NDF: 1753.1/22

In: 0.024 $\pm$ 0.066 χ^2 /NDF:3351.4/33

Out: 0.190 $\pm$ 0.064 χ^2 /NDF:3995.1/36

All: 0.109 $\pm$ 0.046 χ^2 /NDF: 7349.8/70

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.067 ± 0.395 $\chi^2/\text{NDF}: 830.5/10$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 15.397 ± 0.379 $\chi^2/\text{NDF}: 1432.1/11$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

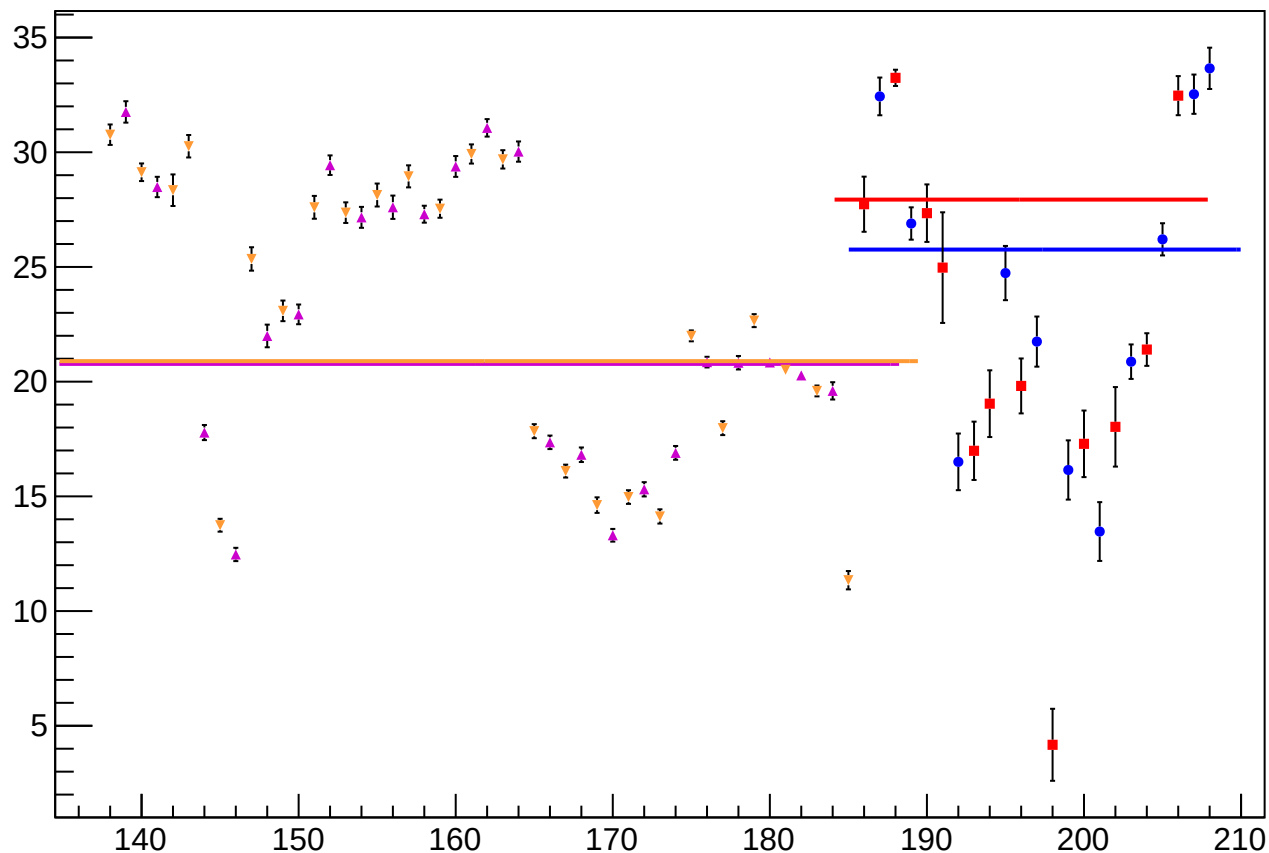
Right: 17.635 ± 0.274 $\chi^2/\text{NDF}: 2335.3/22$

In: -1.773 ± 0.055 $\chi^2/\text{NDF}: 5620.0/33$

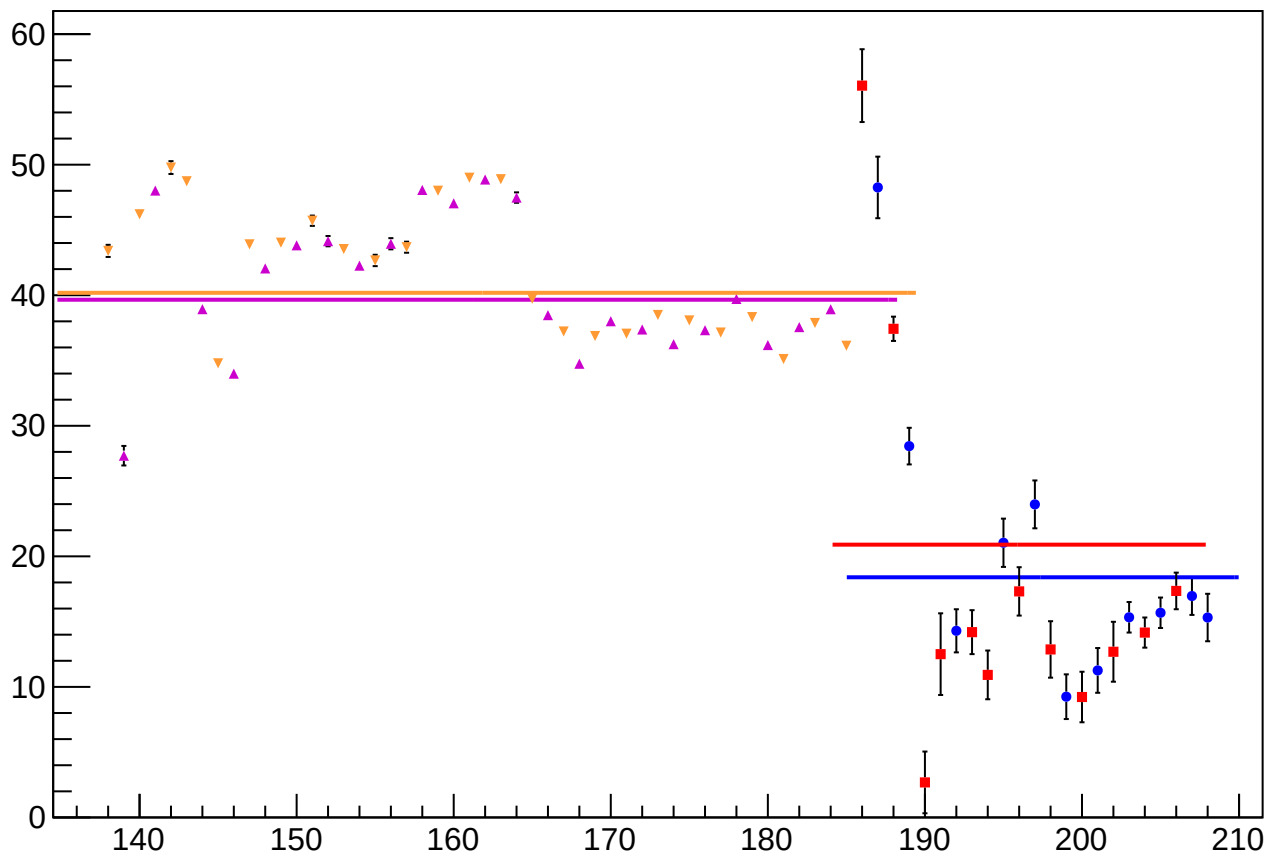
Out: -1.934 ± 0.054 $\chi^2/\text{NDF}: 4703.5/36$

All: -1.855 ± 0.038 $\chi^2/\text{NDF}: 10327.9/70$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.396 ± 0.468 χ^2/NDF : 291.2/10

Left Out: 40.186 ± 0.060 χ^2/NDF : 5932.7/24

Right Out: 20.895 ± 0.475 χ^2/NDF : 693.0/11

Left In: 39.655 ± 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 ± 0.043 χ^2/NDF : 11269.2/47

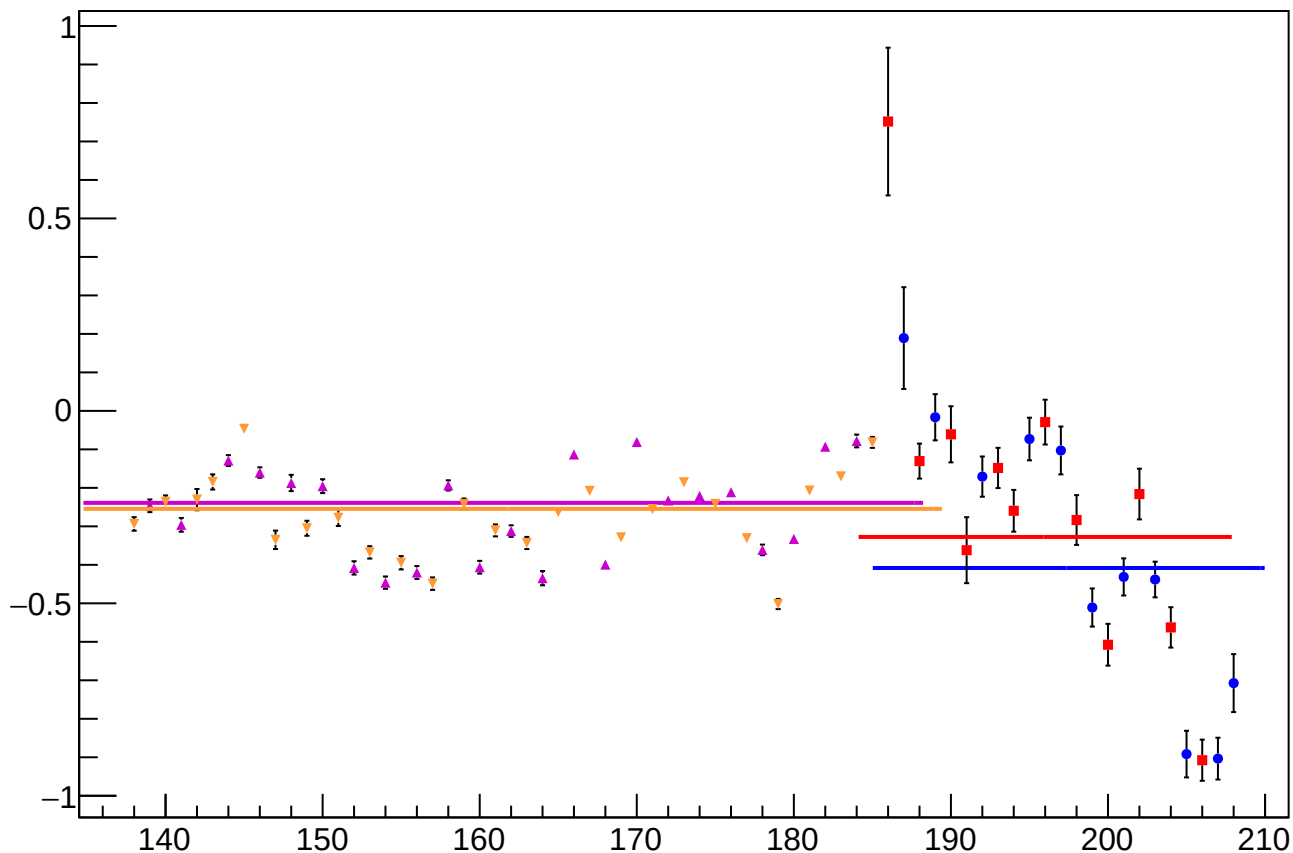
Right: 19.625 ± 0.333 χ^2/NDF : 998.2/22

In: 39.294 ± 0.061 χ^2/NDF : 7622.2/33

Out: 39.880 ± 0.060 χ^2/NDF : 8246.9/36

All: 39.592 ± 0.043 χ^2/NDF : 15916.0/70

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.408 ± 0.017 χ^2/NDF : 311.9/10

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.328 ± 0.017 χ^2/NDF : 271.1/11

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

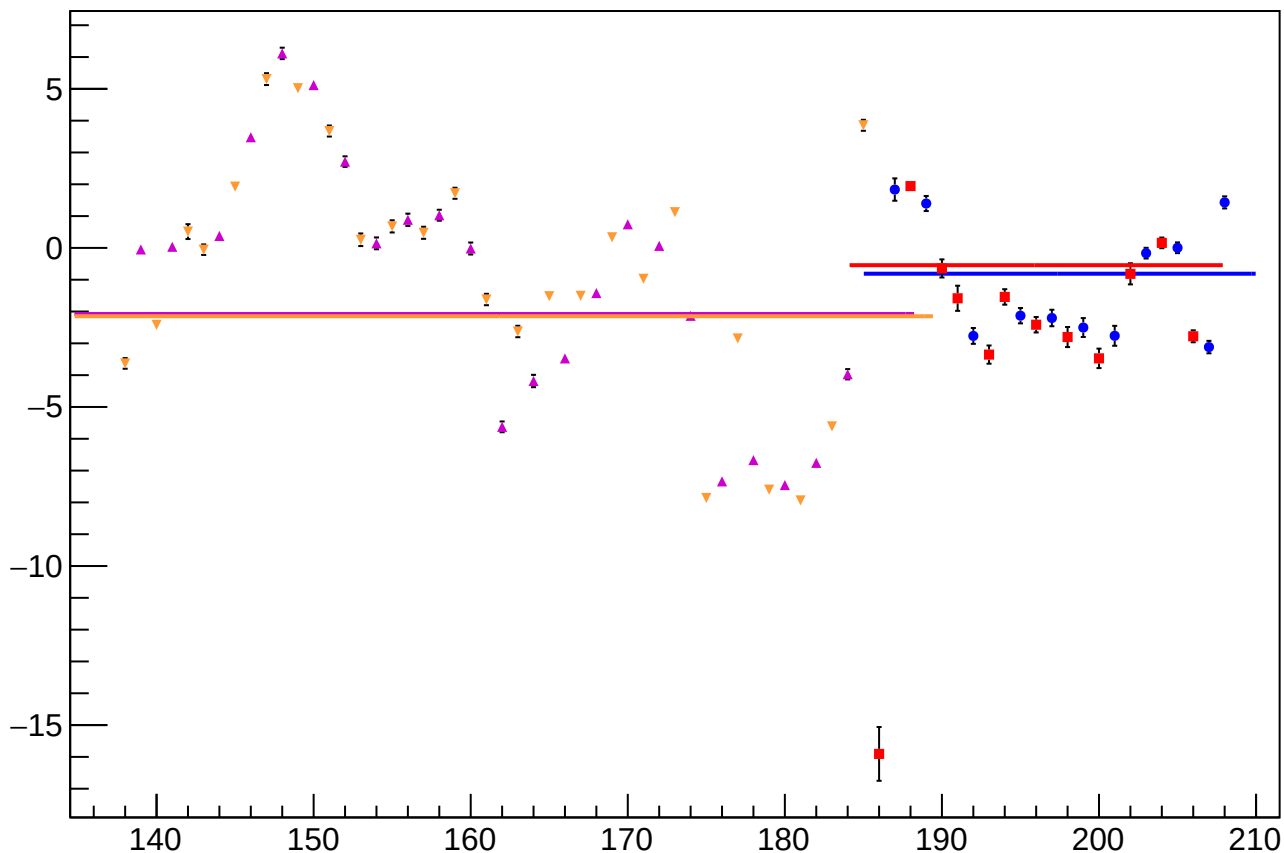
Right: -0.368 ± 0.012 χ^2/NDF : 594.0/22

In: -0.243 ± 0.003 χ^2/NDF : 2156.5/33

Out: -0.256 ± 0.003 χ^2/NDF : 1709.0/36

All: -0.250 ± 0.002 χ^2/NDF : 3876.9/70

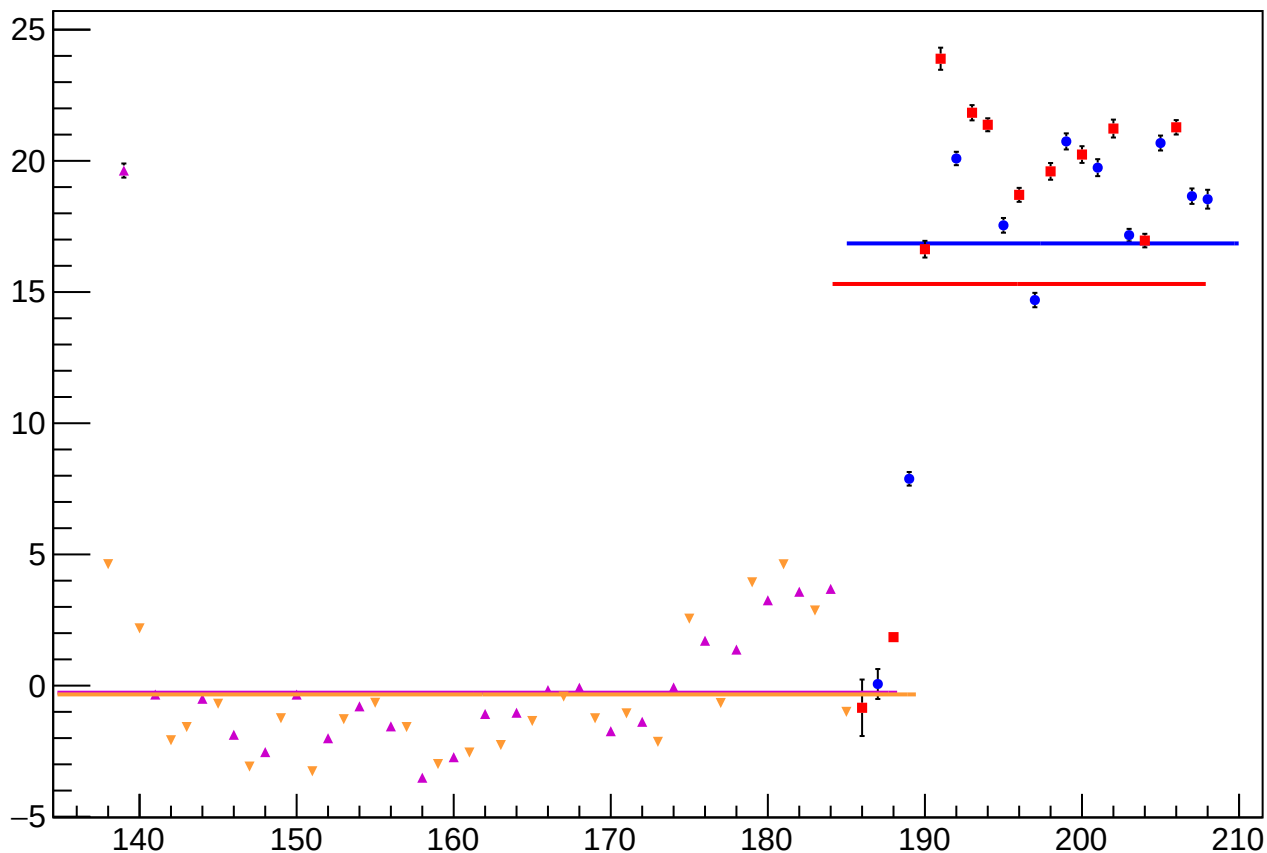
reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.811 ± 0.068 χ^2/NDF : 650.2/10
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.543 ± 0.064 χ^2/NDF : 1326.0/11
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.670 ± 0.047 χ^2/NDF : 1984.5/22
 In: -1.914 ± 0.024 χ^2/NDF : 24202.3/33
 Out: -1.928 ± 0.024 χ^2/NDF : 26402.4/36
 All: -1.921 ± 0.017 χ^2/NDF : 50604.9/70

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.853 ± 0.088 $\chi^2/\text{NDF}: 2774.7/10$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 15.308 ± 0.081 $\chi^2/\text{NDF}: 10111.8/11$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

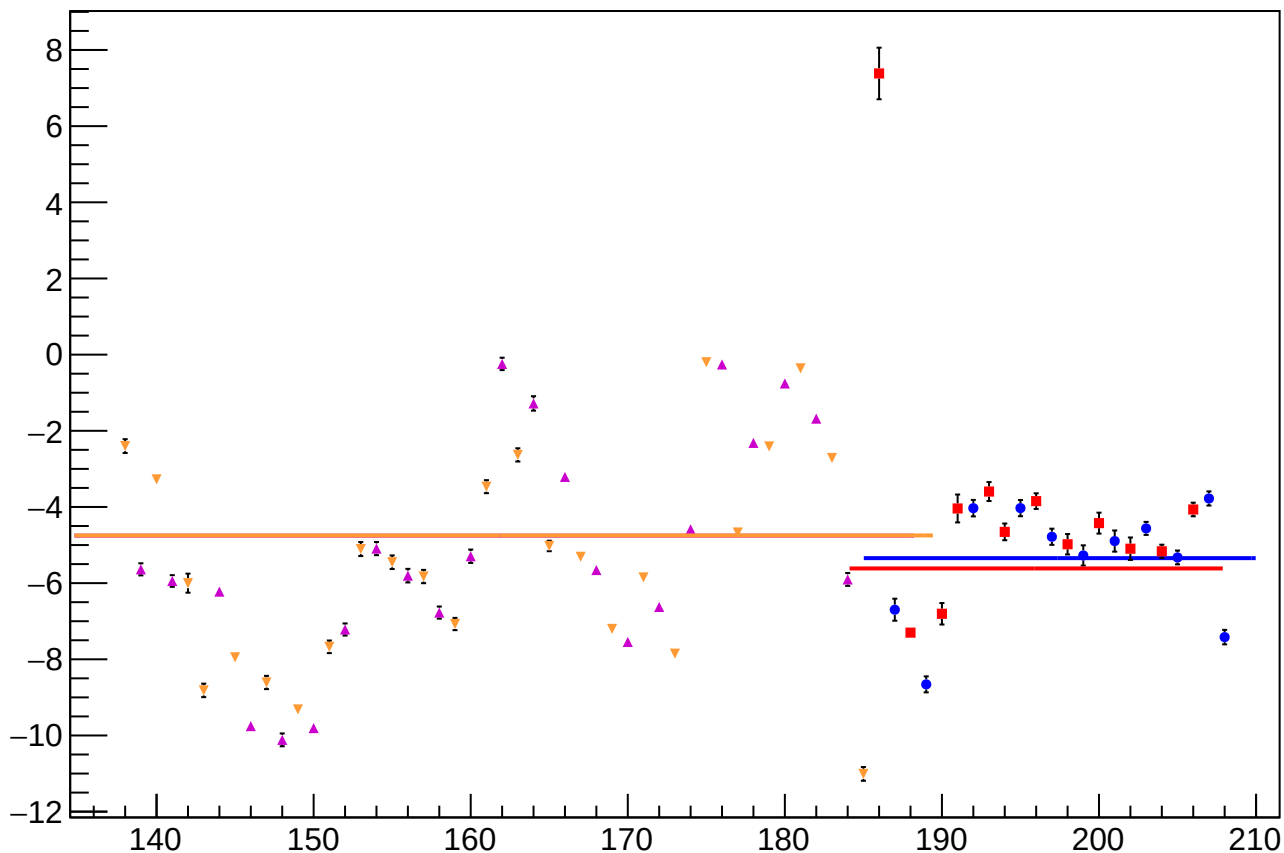
Right: 16.012 ± 0.060 $\chi^2/\text{NDF}: 13053.7/22$

In: 0.645 ± 0.020 $\chi^2/\text{NDF}: 51792.8/33$

Out: 0.620 ± 0.020 $\chi^2/\text{NDF}: 57967.3/36$

All: 0.632 ± 0.014 $\chi^2/\text{NDF}: 109760.9/70$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



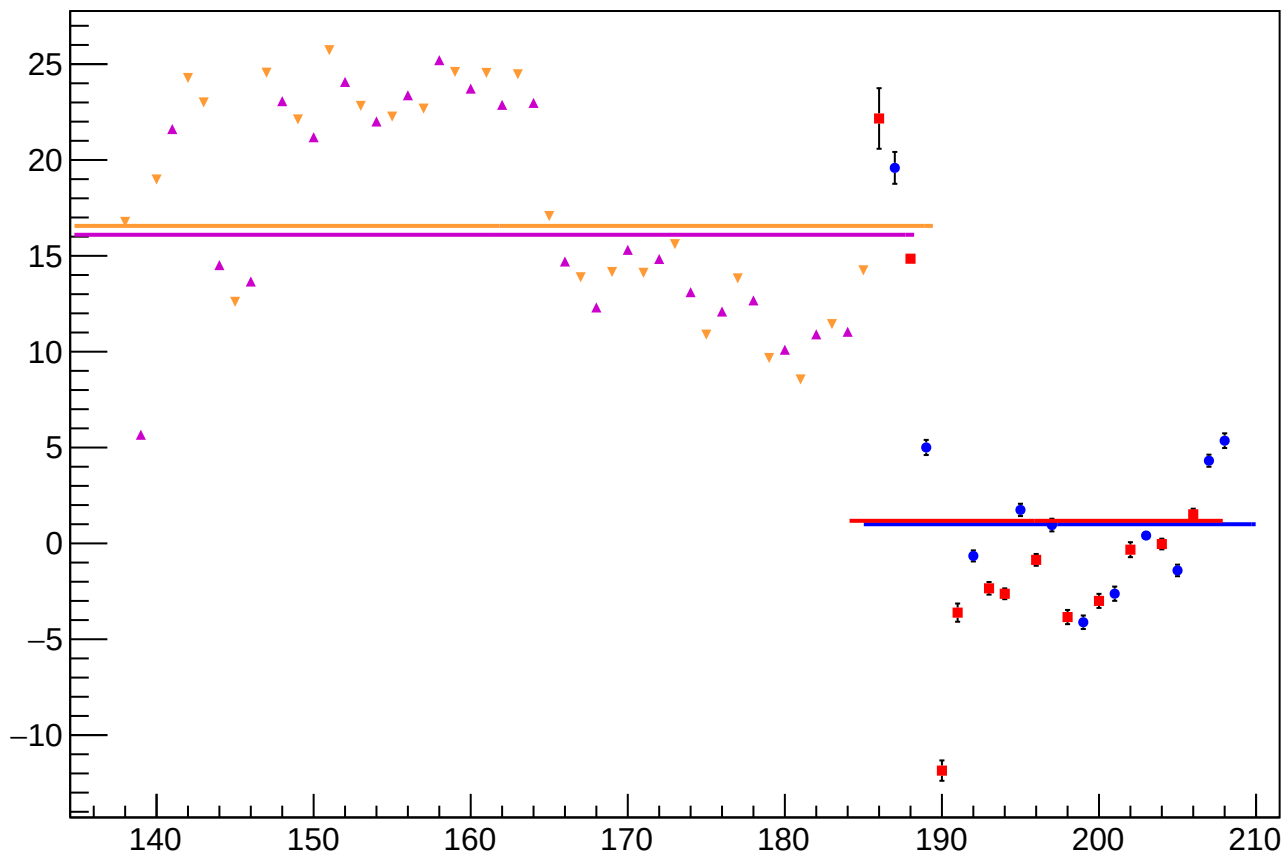
Right In: -5.344 ± 0.064 χ^2/NDF : 565.0/10
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.614 ± 0.057 χ^2/NDF : 1032.1/11
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47
 Right: -5.494 ± 0.042 χ^2/NDF : 1607.2/22

In: -4.839 ± 0.024 χ^2/NDF : 14758.1/33
 Out: -4.897 ± 0.024 χ^2/NDF : 14515.7/36

All: -4.869 ± 0.017 χ^2/NDF : 29276.8/70

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.000 ± 0.102 $\chi^2/\text{NDF}: 1253.9/10$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.179 ± 0.098 $\chi^2/\text{NDF}: 4983.0/11$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

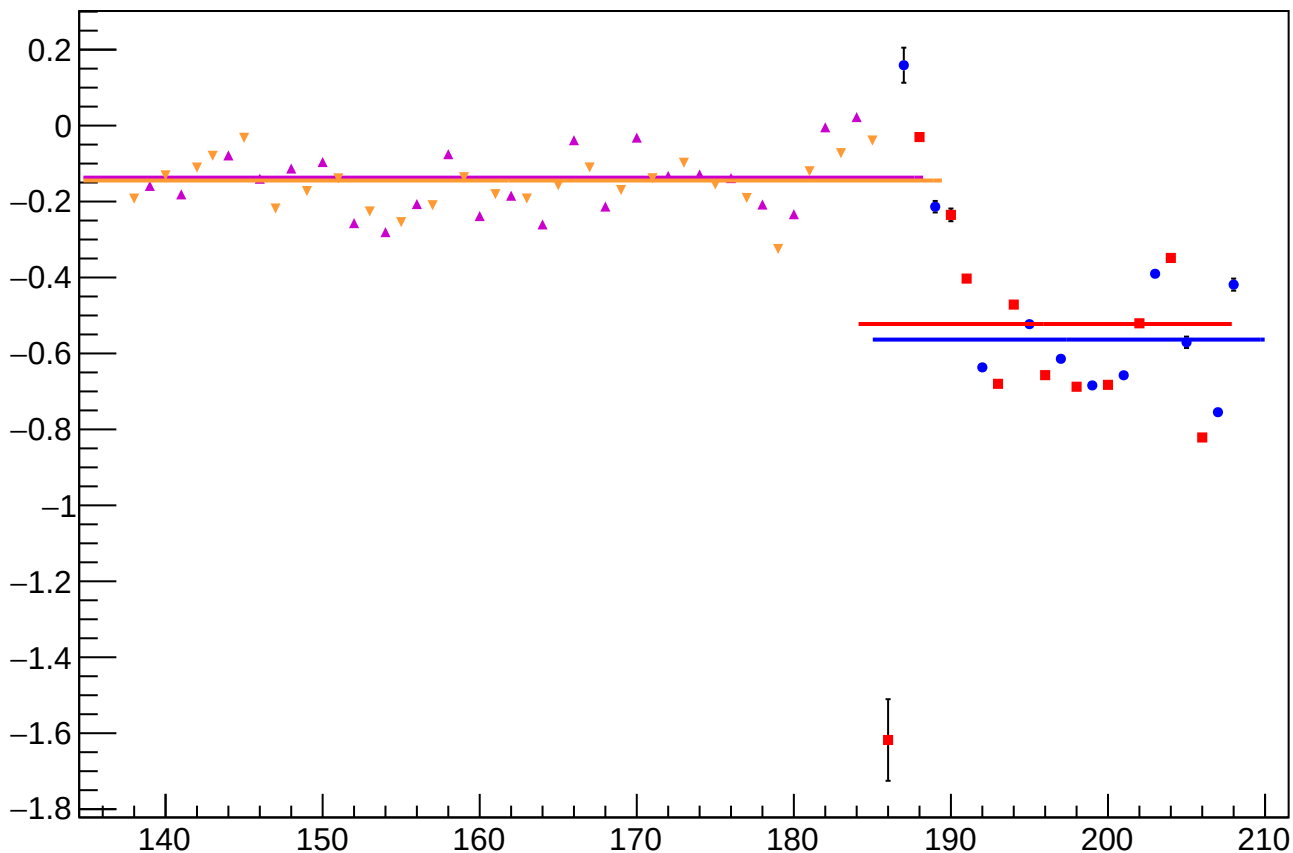
Right: 1.093 ± 0.071 $\chi^2/\text{NDF}: 6238.5/22$

In: 15.331 ± 0.023 $\chi^2/\text{NDF}: 64467.9/33$

Out: 15.746 ± 0.023 $\chi^2/\text{NDF}: 82294.2/36$

All: 15.542 ± 0.016 $\chi^2/\text{NDF}: 146928.5/70$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.564 ± 0.003 χ^2/NDF : 1773.4/10

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 4572.4/11

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

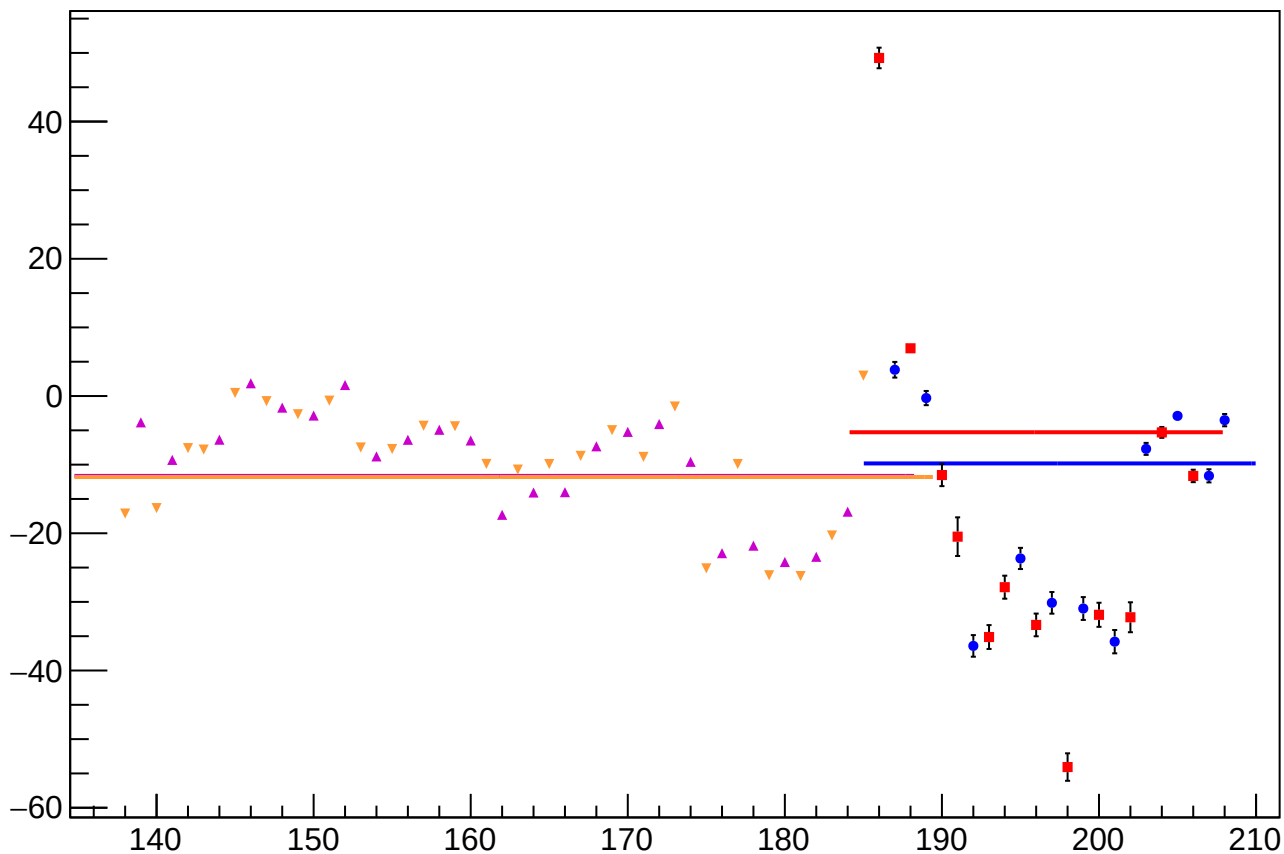
Right: -0.542 ± 0.002 χ^2/NDF : 6419.6/22

In: -0.174 ± 0.001 χ^2/NDF : 20755.4/33

Out: -0.180 ± 0.001 χ^2/NDF : 20525.6/36

All: -0.177 ± 0.001 χ^2/NDF : 41303.6/70

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.821 ± 0.330 χ^2/NDF : 1304.6/10
 Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24
 Right Out: -5.278 ± 0.332 χ^2/NDF : 3675.3/11
 Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

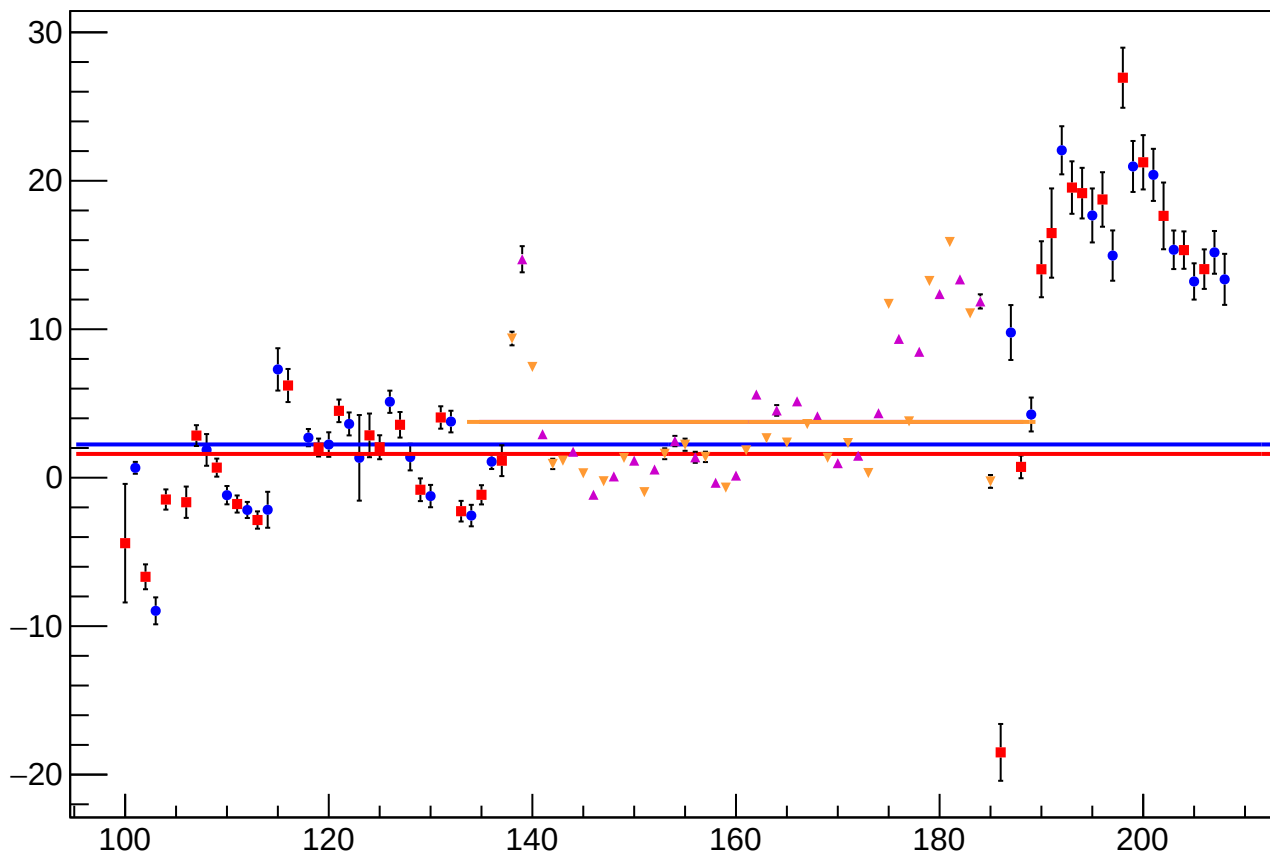
Right: -7.565 ± 0.234 χ^2/NDF : 5074.2/22

In: -11.560 ± 0.070 χ^2/NDF : 15454.9/33

Out: -11.521 ± 0.069 χ^2/NDF : 21353.1/36

All: -11.540 ± 0.049 χ^2/NDF : 36808.2/70

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.239 $\pm$ 0.160 χ^2 /NDF: 1214.6/27

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 1.600 $\pm$ 0.162 χ^2 /NDF: 1340.7/30

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

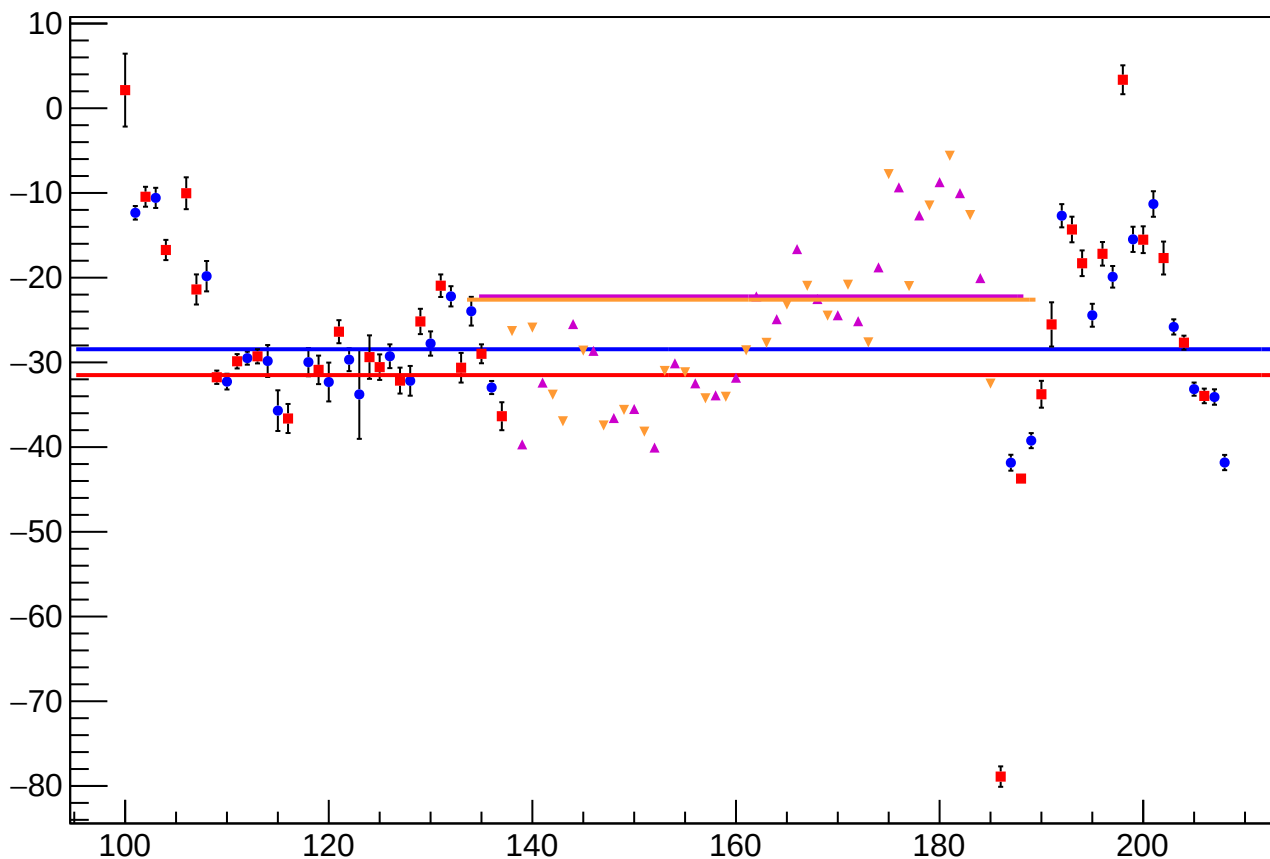
Right: 1.925 $\pm$ 0.114 χ^2 /NDF: 2563.1/58

In: 3.588 $\pm$ 0.053 χ^2 /NDF: 6924.3/50

Out: 3.531 $\pm$ 0.053 χ^2 /NDF: 8949.4/55

All: 3.559 $\pm$ 0.037 χ^2 /NDF: 15874.2/106

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.448 $\pm$ 0.216 χ^2 /NDF: 1805.0/27

Left Out: -22.598 $\pm$ 0.071 χ^2 /NDF:19933.4/24

Right Out: -31.500 $\pm$ 0.208 χ^2 /NDF: 4086.3/30

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

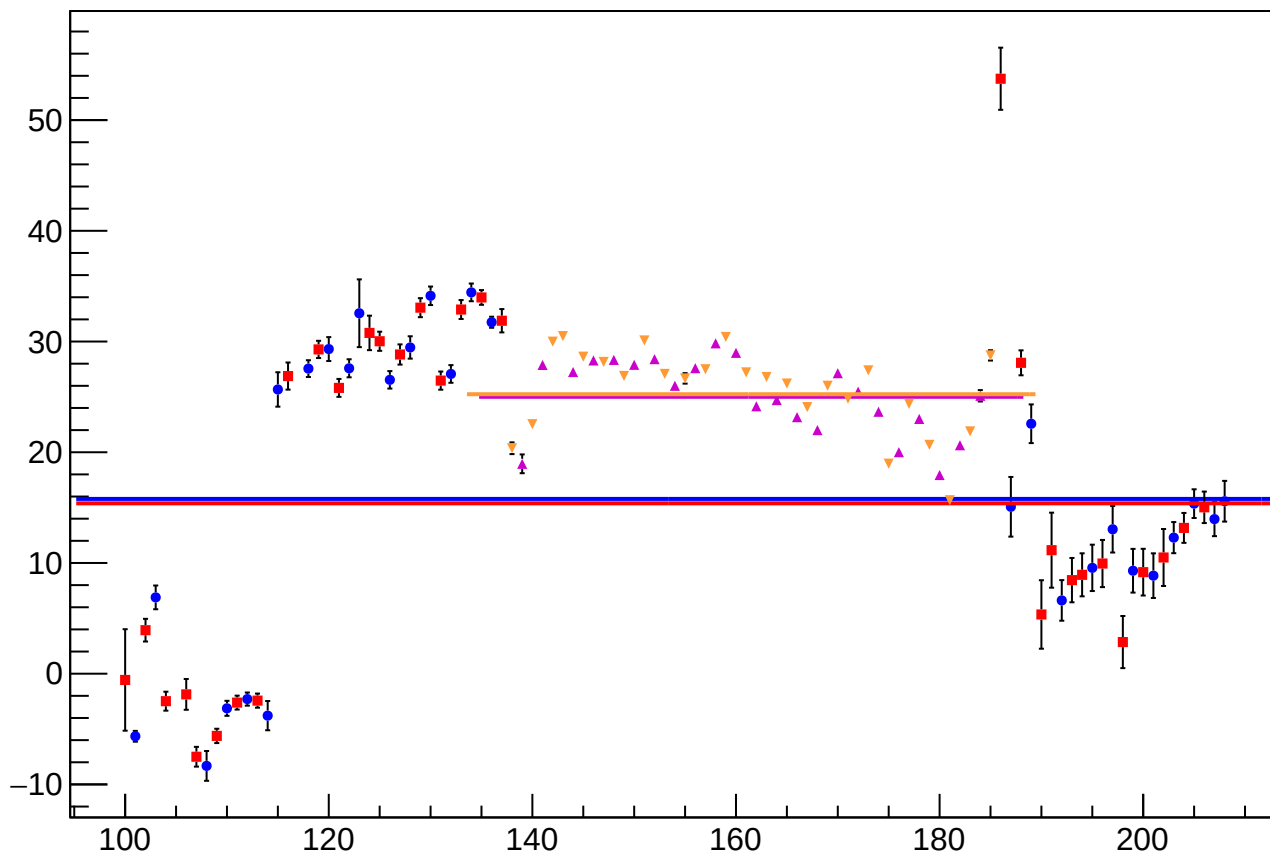
Right: -30.031 $\pm$ 0.150 χ^2 /NDF: 5994.5/58

In: -22.825 $\pm$ 0.068 χ^2 /NDF:20181.6/50

Out: -23.516 $\pm$ 0.067 χ^2 /NDF:25655.6/55

All: -23.176 $\pm$ 0.048 χ^2 /NDF: 45889.7/106

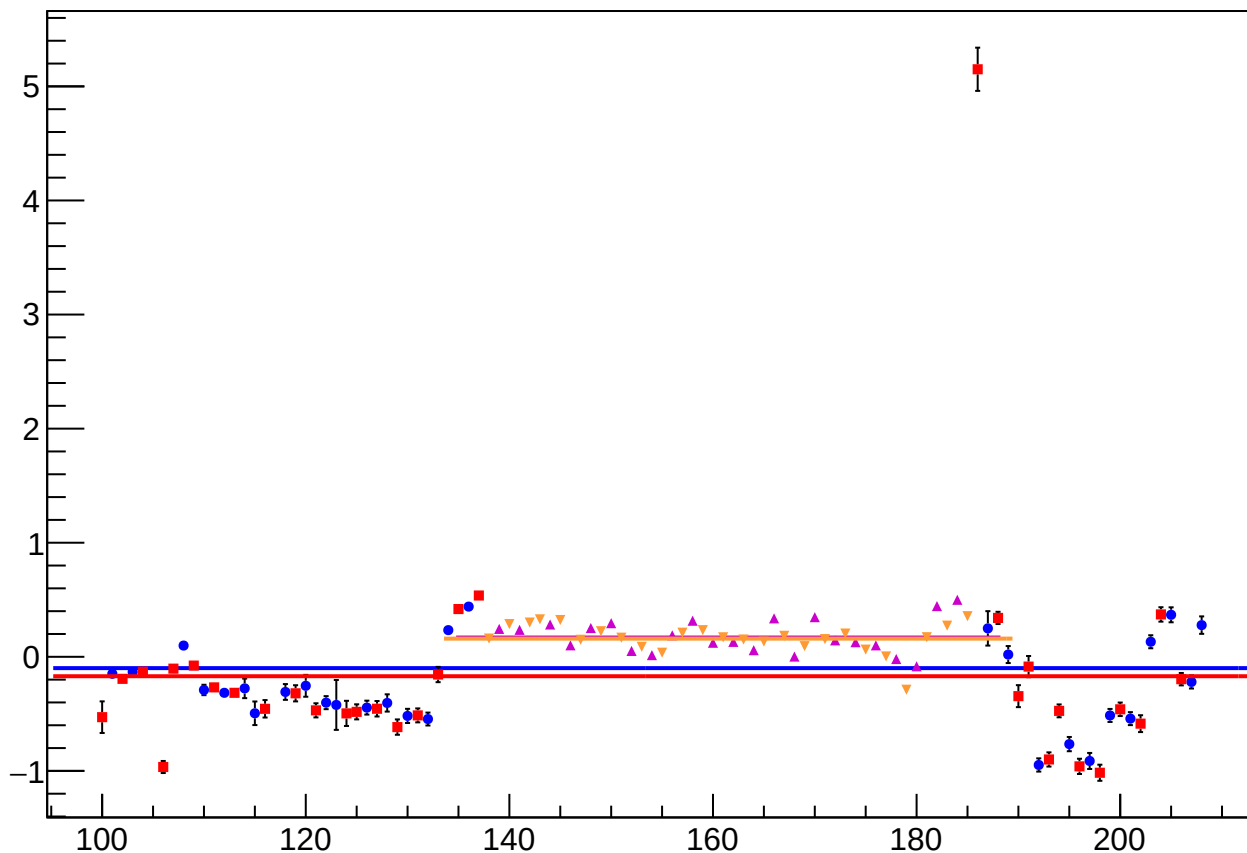
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.786 $\pm$ 0.181 χ^2 /NDF: 7626.1/27
 Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24
 Right Out: 15.387 $\pm$ 0.185 χ^2 /NDF: 7660.8/30
 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: 15.591 $\pm$ 0.129 χ^2 /NDF: 15289.3/58
 In: 23.988 $\pm$ 0.060 χ^2 /NDF:12658.9/50
 Out: 24.232 $\pm$ 0.059 χ^2 /NDF:13985.1/55
 All: 24.112 $\pm$ 0.042 χ^2 /NDF: 26652.3/106

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.099 ± 0.009 χ^2/NDF : 1729.9/27

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.170 ± 0.009 χ^2/NDF : 2636.6/30

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

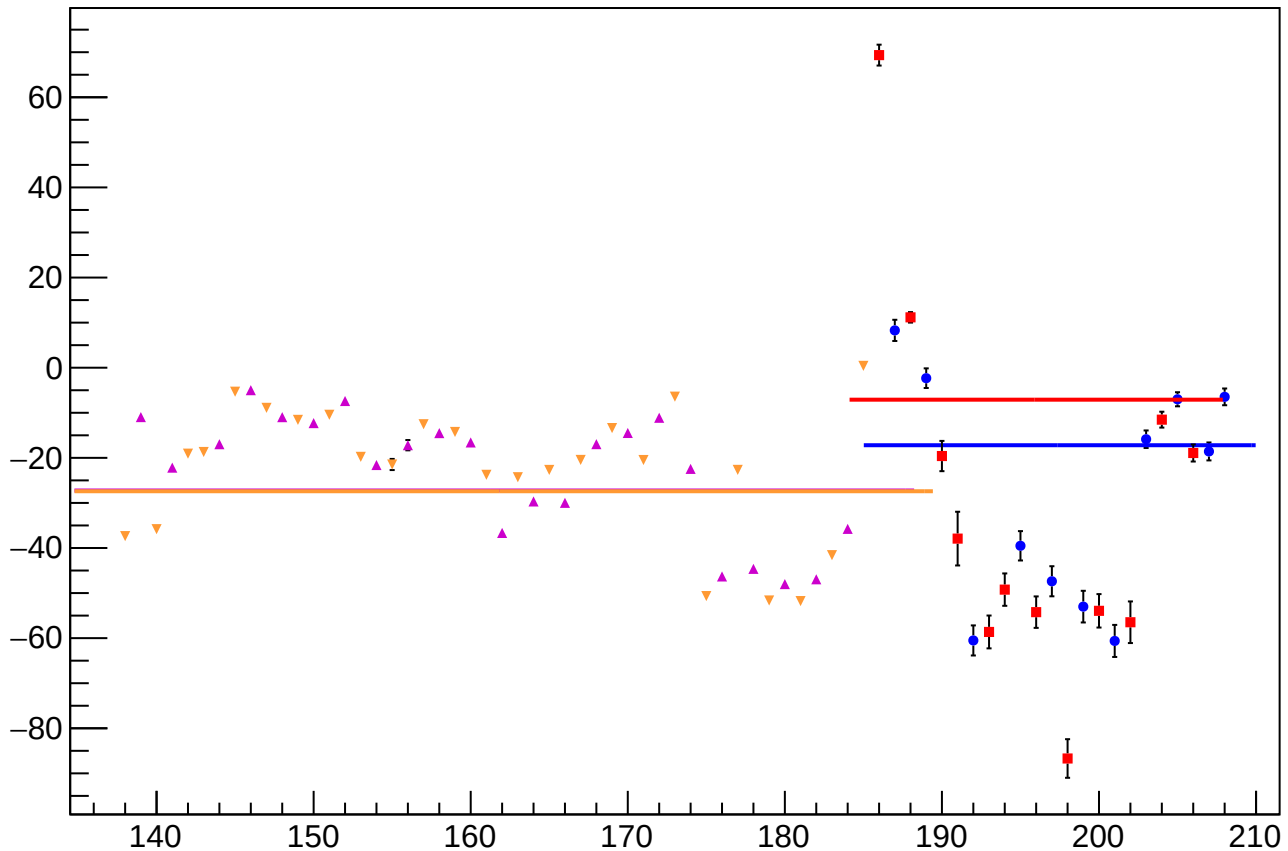
Right: -0.135 ± 0.006 χ^2/NDF : 4396.7/58

In: 0.144 ± 0.003 χ^2/NDF : 4928.9/50

Out: 0.130 ± 0.003 χ^2/NDF : 5681.4/55

All: 0.137 ± 0.002 χ^2/NDF : 10623.7/106

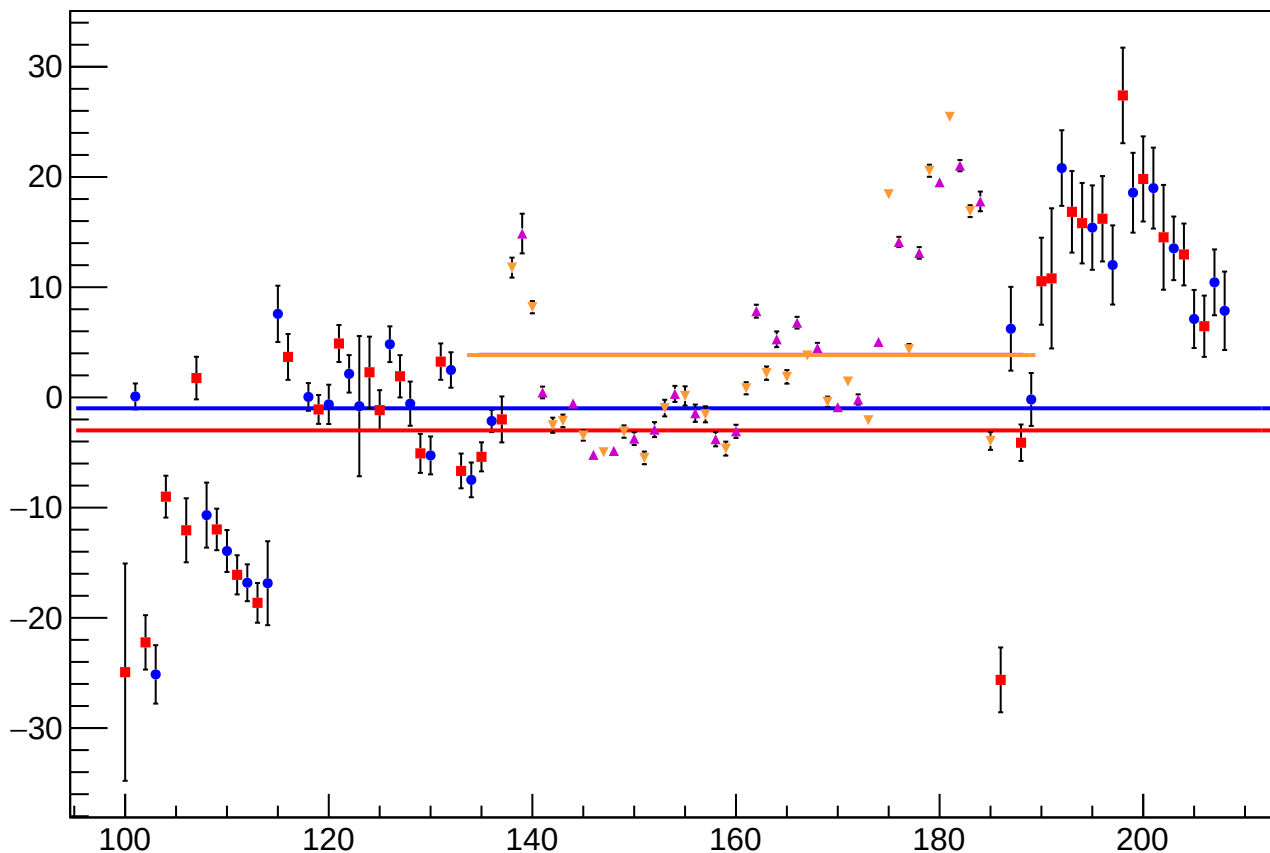
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.199 ± 0.700 $\chi^2/\text{NDF}: 791.3/10$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -7.094 ± 0.697 $\chi^2/\text{NDF}: 2561.2/11$
 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: -12.130 ± 0.494 $\chi^2/\text{NDF}: 3457.1/22$
 In: -26.860 ± 0.137 $\chi^2/\text{NDF}: 12294.7/33$
 Out: -26.655 ± 0.134 $\chi^2/\text{NDF}: 18228.6/36$
 All: -26.755 ± 0.096 $\chi^2/\text{NDF}: 30524.4/70$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.987 ± 0.378 $\chi^2/\text{NDF}: 495.1/27$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.993 ± 0.387 $\chi^2/\text{NDF}: 610.8/30$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

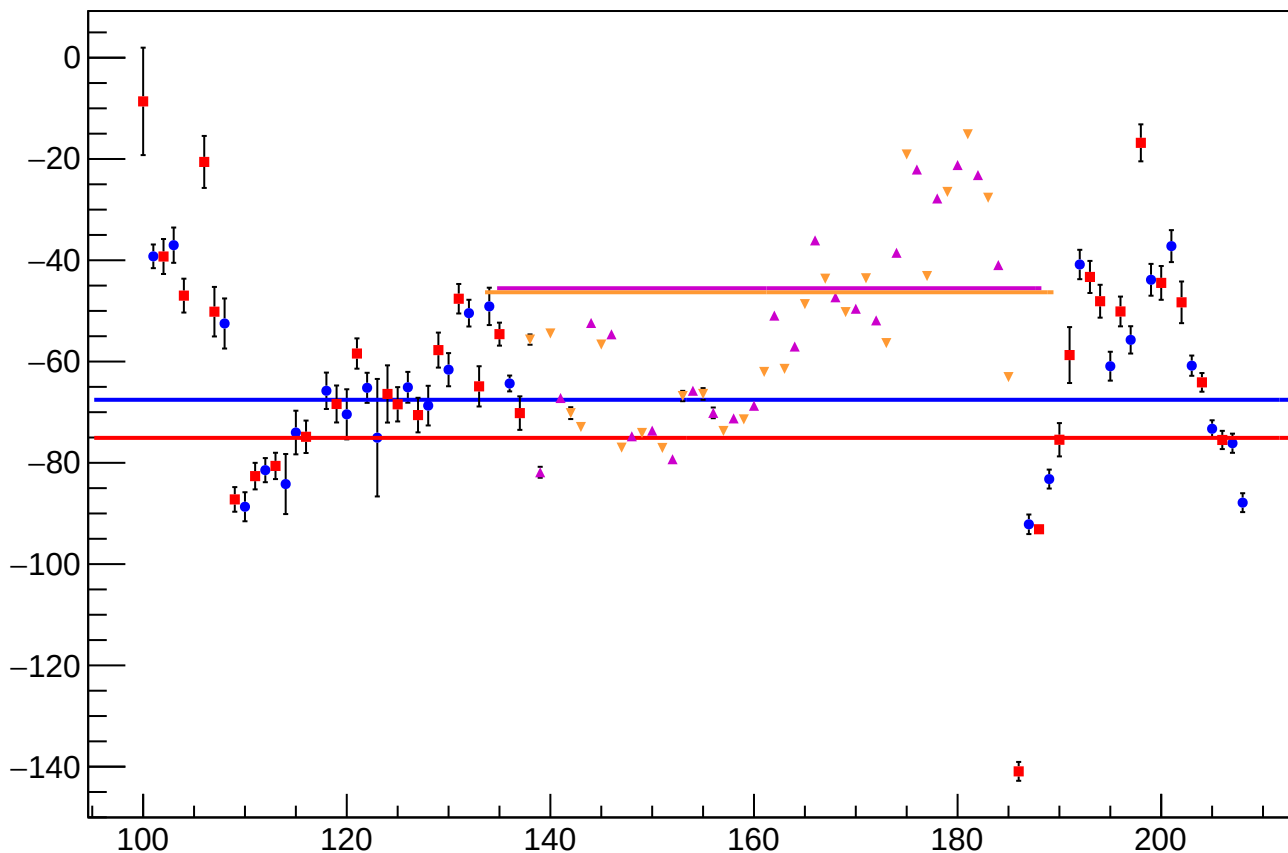
Right: -1.969 ± 0.270 $\chi^2/\text{NDF}: 1119.6/58$

In: 3.480 ± 0.107 $\chi^2/\text{NDF}: 6070.4/50$

Out: 3.336 ± 0.105 $\chi^2/\text{NDF}: 7839.3/55$

All: 3.407 ± 0.075 $\chi^2/\text{NDF}: 13910.7/106$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.552 ± 0.492 χ^2/NDF : 1061.4/27

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -75.073 ± 0.474 χ^2/NDF : 2928.4/30

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

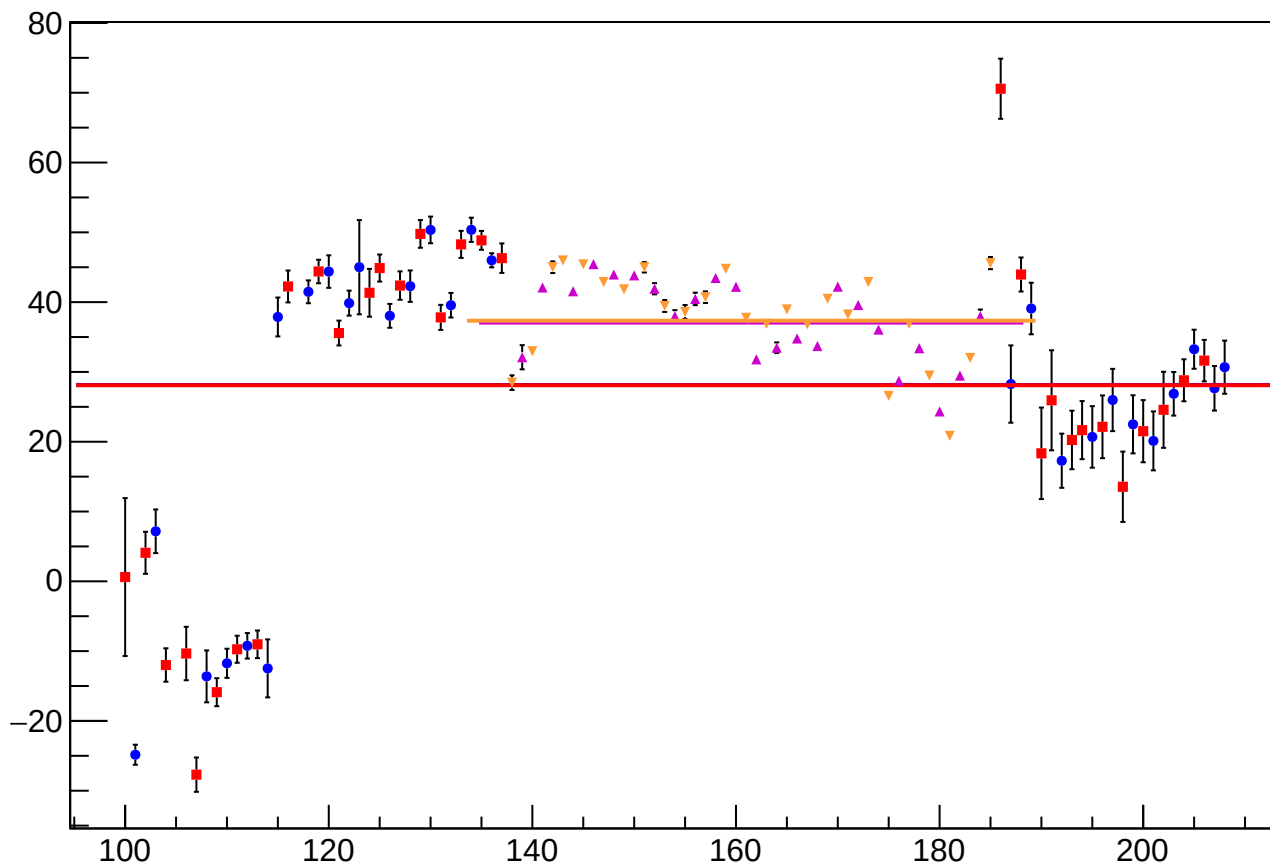
Right: -71.457 ± 0.341 χ^2/NDF : 4111.0/58

In: -47.164 ± 0.134 χ^2/NDF : 20439.3/50

Out: -48.564 ± 0.132 χ^2/NDF : 26458.0/55

All: -47.875 ± 0.094 χ^2/NDF : 46952.4/106

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.135 $\pm$ 0.427 χ^2 /NDF: 3340.0/27

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.097 $\pm$ 0.442 χ^2 /NDF: 3195.5/30

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

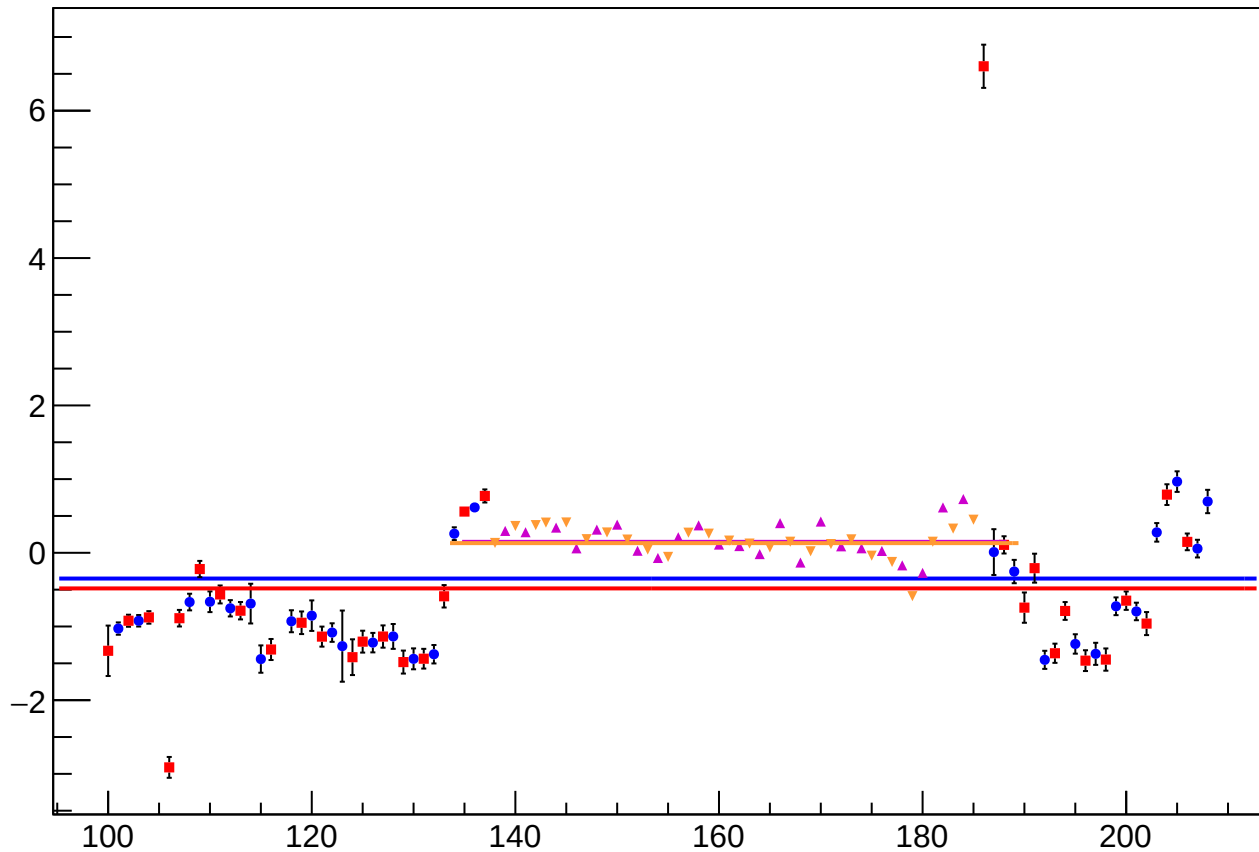
Right: 28.117 $\pm$ 0.307 χ^2 /NDF: 6535.6/58

In: 36.365 $\pm$ 0.120 χ^2 /NDF:6141.5/50

Out: 36.676 $\pm$ 0.118 χ^2 /NDF:6751.0/55

All: 36.523 $\pm$ 0.084 χ^2 /NDF: 12895.9/106

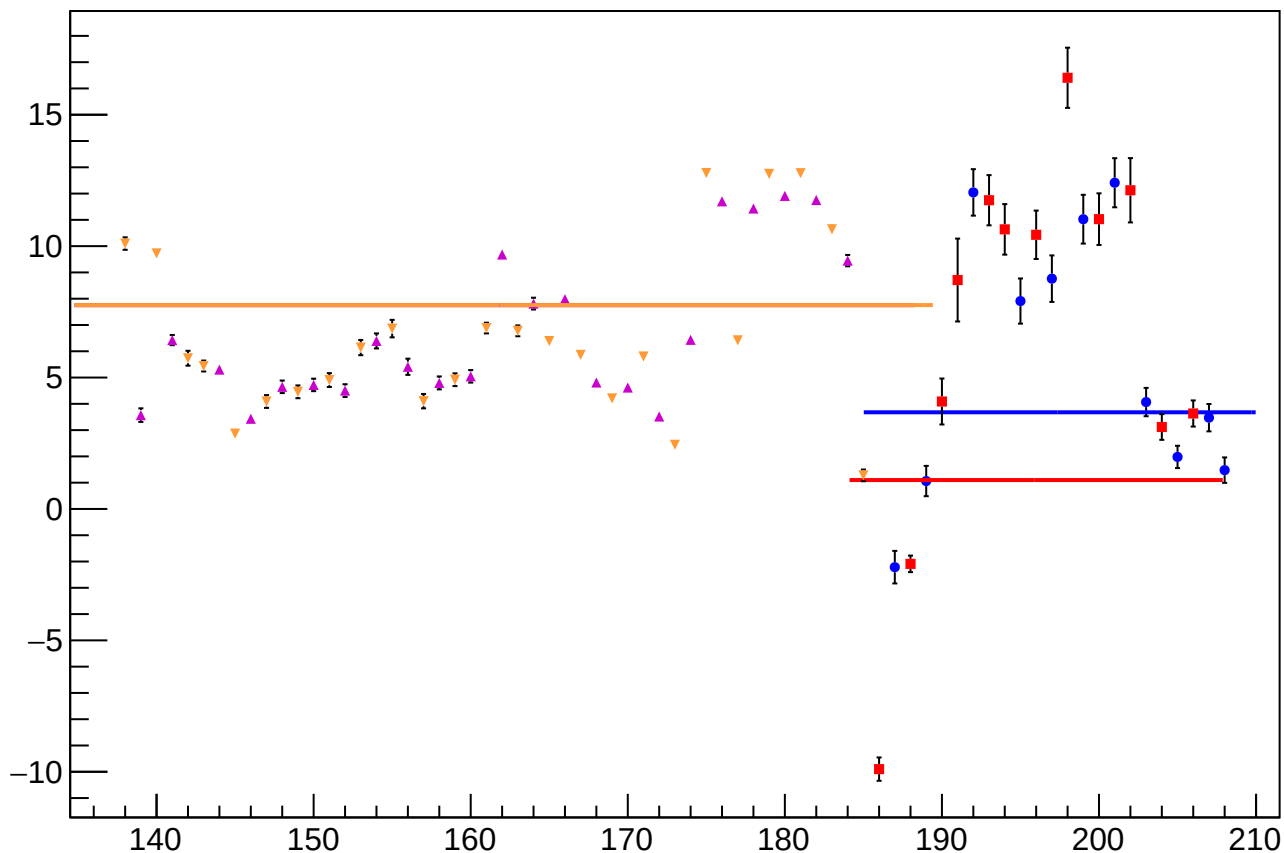
reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.349 ± 0.021 $\chi^2/\text{NDF}: 1378.0/27$
 Left Out: 0.131 ± 0.006 $\chi^2/\text{NDF}: 1426.3/24$
 Right Out: -0.483 ± 0.022 $\chi^2/\text{NDF}: 2039.0/30$
 Left In: 0.149 ± 0.006 $\chi^2/\text{NDF}: 1803.6/22$

Left: 0.140 ± 0.004 $\chi^2/\text{NDF}: 3234.6/47$
 Right: -0.415 ± 0.015 $\chi^2/\text{NDF}: 3436.2/58$
 In: 0.115 ± 0.006 $\chi^2/\text{NDF}: 3687.3/50$
 Out: 0.093 ± 0.005 $\chi^2/\text{NDF}: 4206.9/55$
 All: 0.104 ± 0.004 $\chi^2/\text{NDF}: 7902.5/106$

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.678 ± 0.186 $\chi^2/\text{NDF}: 445.5/10$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.100 ± 0.180 $\chi^2/\text{NDF}: 1480.9/11$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

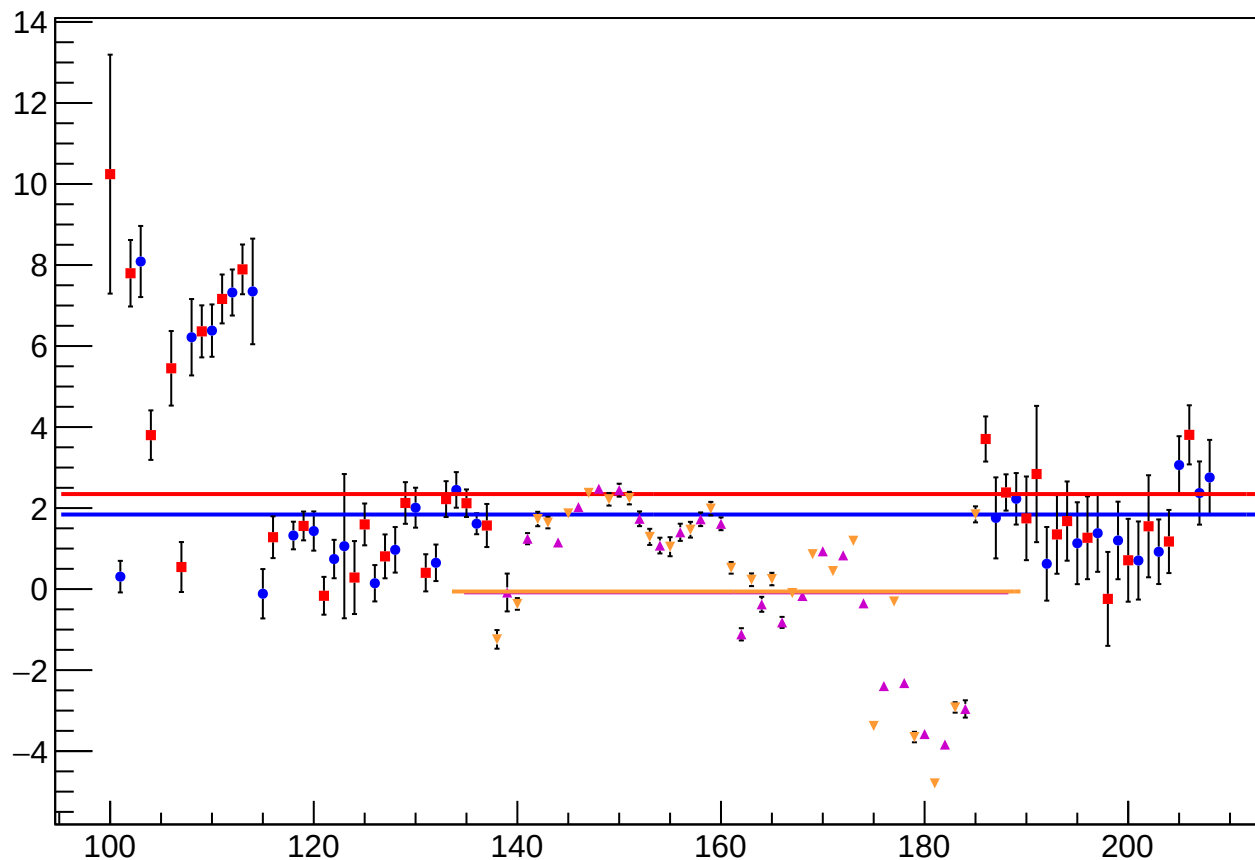
Right: 2.343 ± 0.129 $\chi^2/\text{NDF}: 2025.5/22$

In: 7.613 ± 0.034 $\chi^2/\text{NDF}: 9252.4/33$

Out: 7.523 ± 0.034 $\chi^2/\text{NDF}: 14532.0/36$

All: 7.567 ± 0.024 $\chi^2/\text{NDF}: 23787.9/70$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.841 ± 0.107 $\chi^2/\text{NDF}: 303.7/27$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.346 ± 0.109 $\chi^2/\text{NDF}: 358.8/30$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

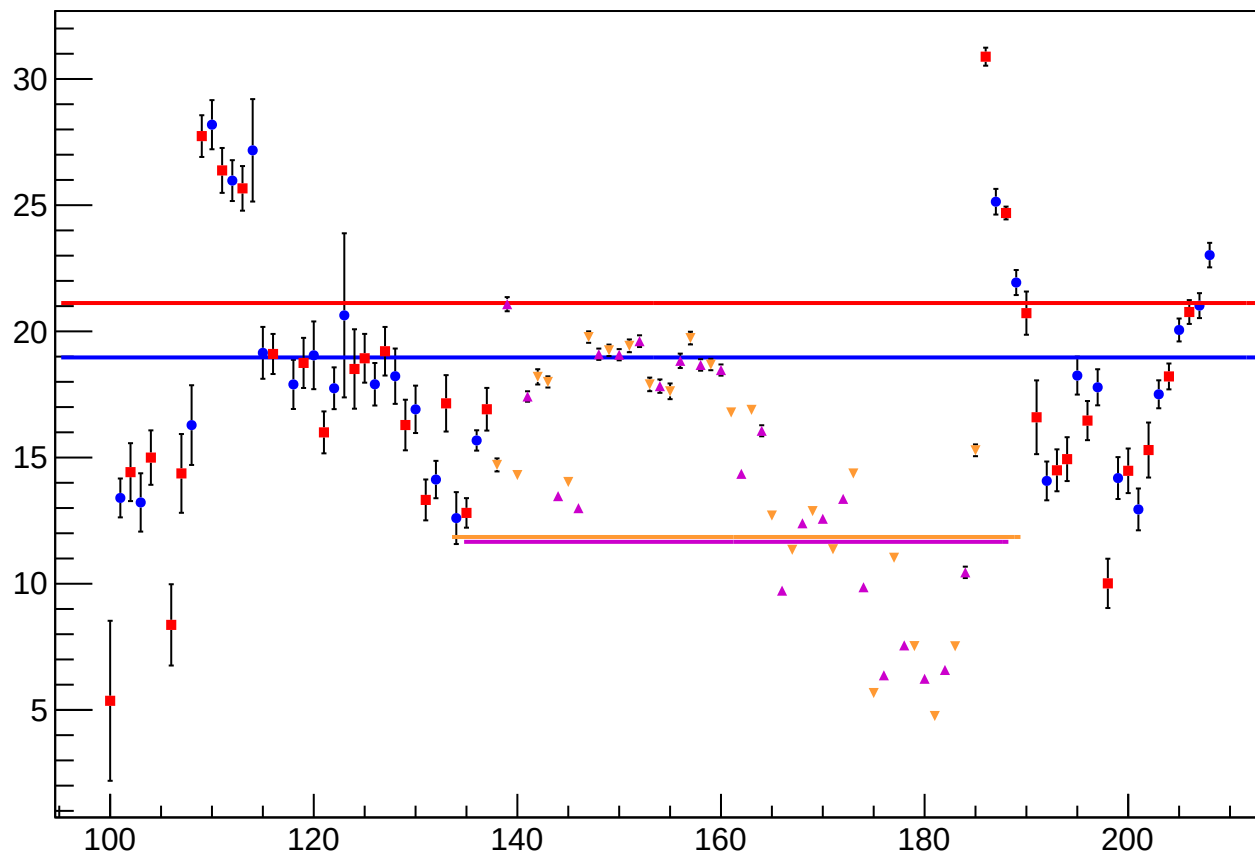
Right: 2.089 ± 0.076 $\chi^2/\text{NDF}: 673.5/58$

In: 0.046 ± 0.027 $\chi^2/\text{NDF}: 5586.5/50$

Out: 0.088 ± 0.027 $\chi^2/\text{NDF}: 6888.0/55$

All: 0.067 ± 0.019 $\chi^2/\text{NDF}: 12475.7/106$

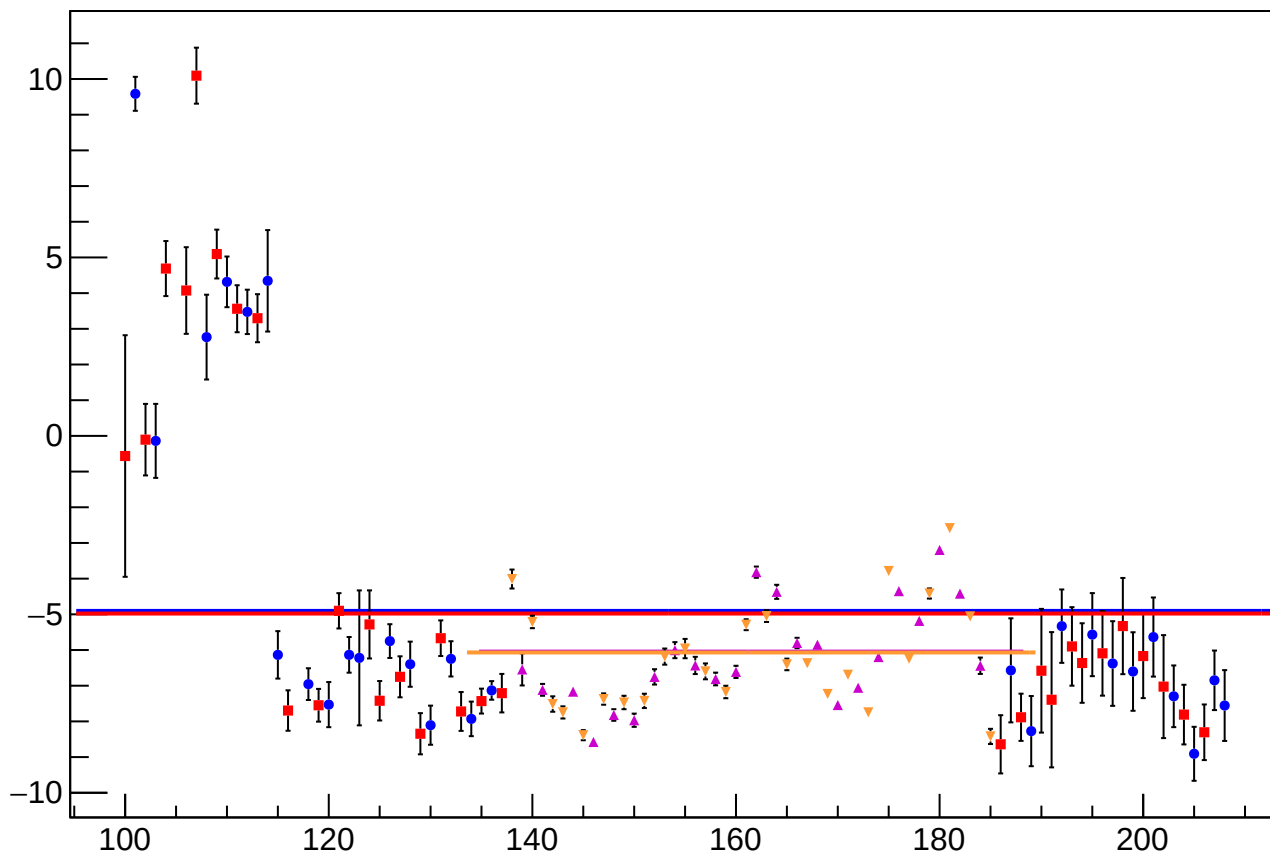
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.967 ± 0.135 $\chi^2/\text{NDF}: 831.6/27$
 Left Out: 11.853 ± 0.035 $\chi^2/\text{NDF}: 19149.4/24$
 Right Out: 21.123 ± 0.127 $\chi^2/\text{NDF}: 2067.9/30$
 Left In: 11.660 ± 0.035 $\chi^2/\text{NDF}: 16710.2/22$

Left: 11.758 ± 0.025 $\chi^2/\text{NDF}: 35874.9/47$
 Right: 20.110 ± 0.093 $\chi^2/\text{NDF}: 3034.4/58$
 In: 12.124 ± 0.034 $\chi^2/\text{NDF}: 20279.7/50$
 Out: 12.495 ± 0.033 $\chi^2/\text{NDF}: 26164.8/55$
 All: 12.313 ± 0.024 $\chi^2/\text{NDF}: 46504.7/106$

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.904 ± 0.120 χ^2/NDF : 1658.7/27

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -4.978 ± 0.124 χ^2/NDF : 1432.7/30

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

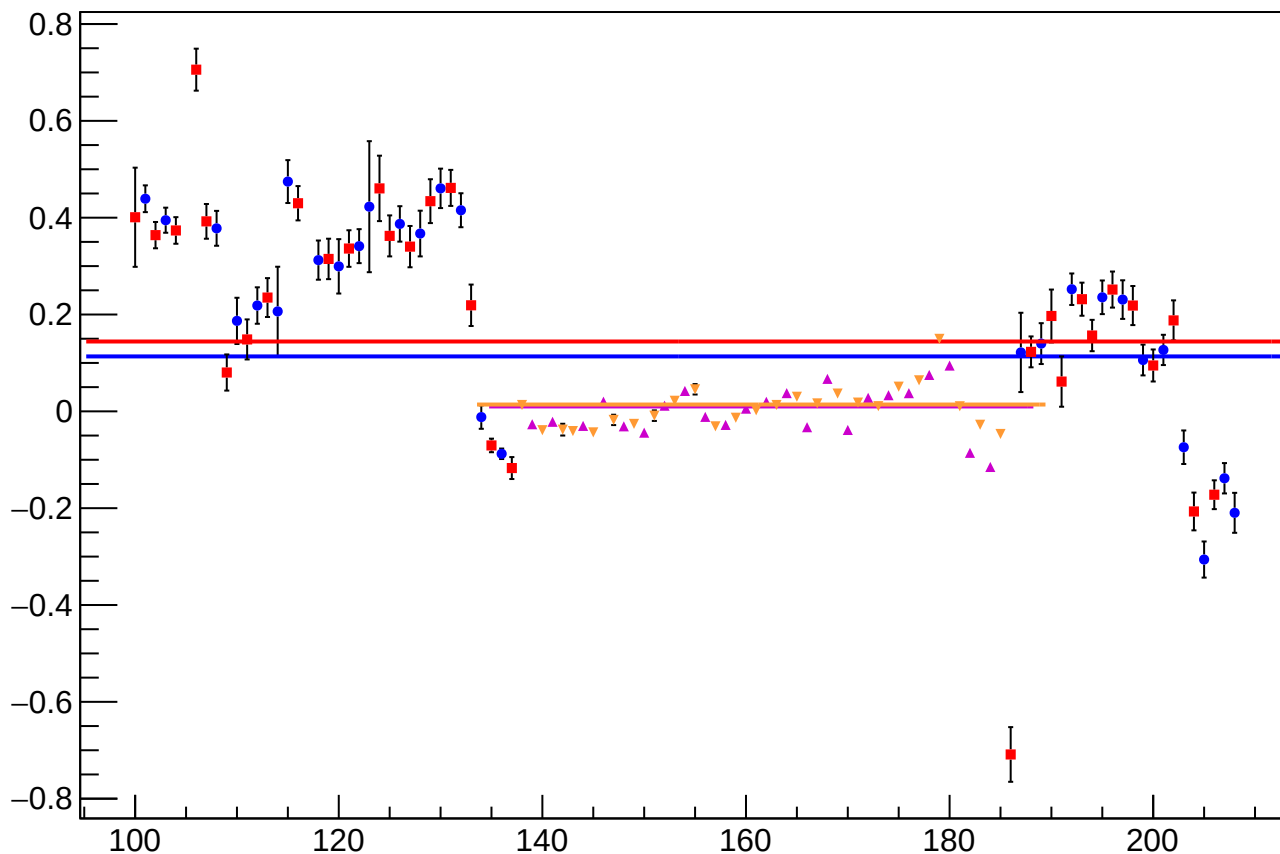
Right: -4.940 ± 0.086 χ^2/NDF : 3091.7/58

In: -5.970 ± 0.031 χ^2/NDF : 4037.2/50

Out: -6.004 ± 0.030 χ^2/NDF : 4176.9/55

All: -5.987 ± 0.022 χ^2/NDF : 8214.7/106

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 $\pm$ 0.006 χ^2 /NDF: 1395.6/27

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.144 $\pm$ 0.006 χ^2 /NDF: 1473.8/30

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF: 1216.1/22

Left: 0.012 $\pm$ 0.001 χ^2 /NDF: 2176.2/47

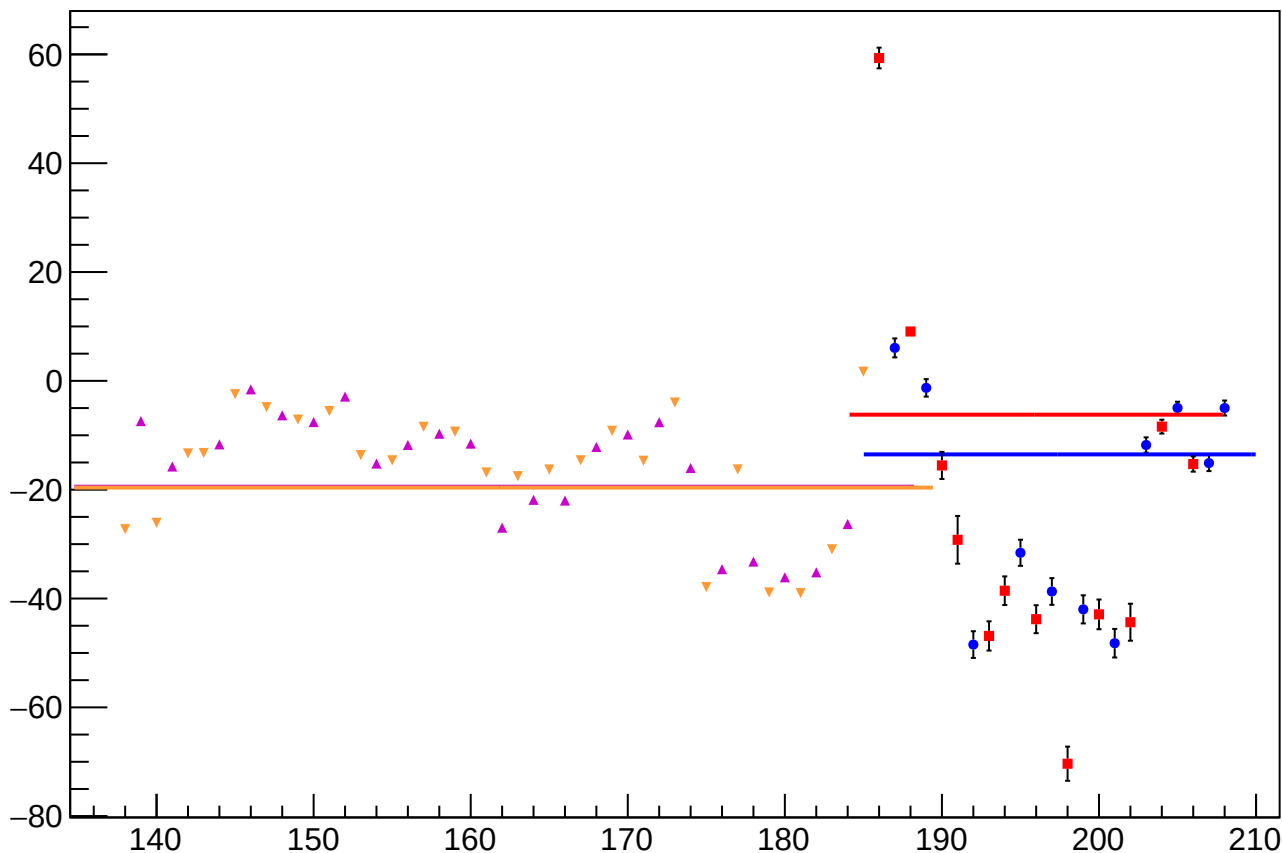
Right: 0.128 $\pm$ 0.004 χ^2 /NDF: 2882.5/58

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2896.7/50

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2858.2/55

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5760.8/106

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.512 ± 0.514 χ^2/NDF : 941.9/10
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: -6.212 ± 0.515 χ^2/NDF : 2917.5/11
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47

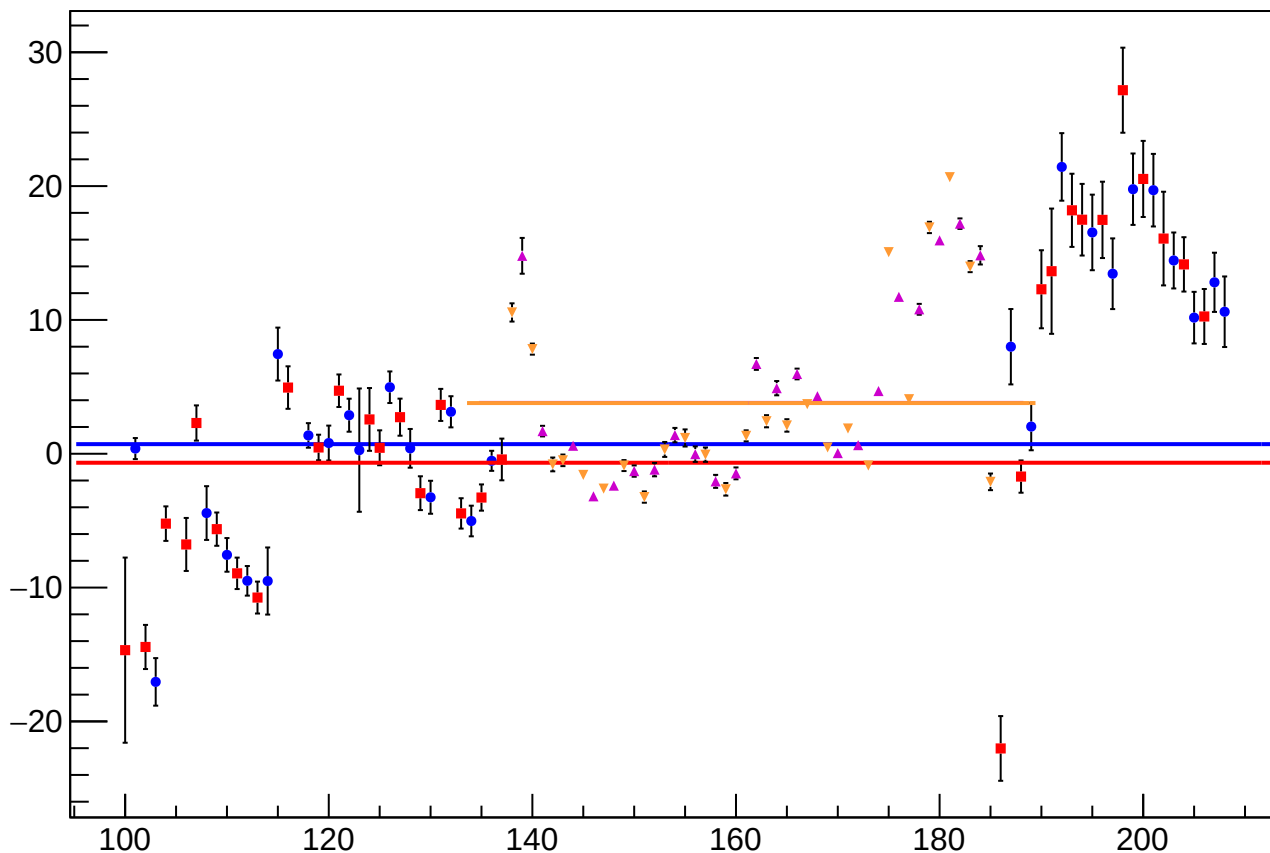
Right: -9.870 ± 0.364 χ^2/NDF : 3960.0/22

In: -19.212 ± 0.103 χ^2/NDF : 13353.1/33

Out: -19.096 ± 0.101 χ^2/NDF : 19328.8/36

All: -19.153 ± 0.072 χ^2/NDF : 32682.5/70

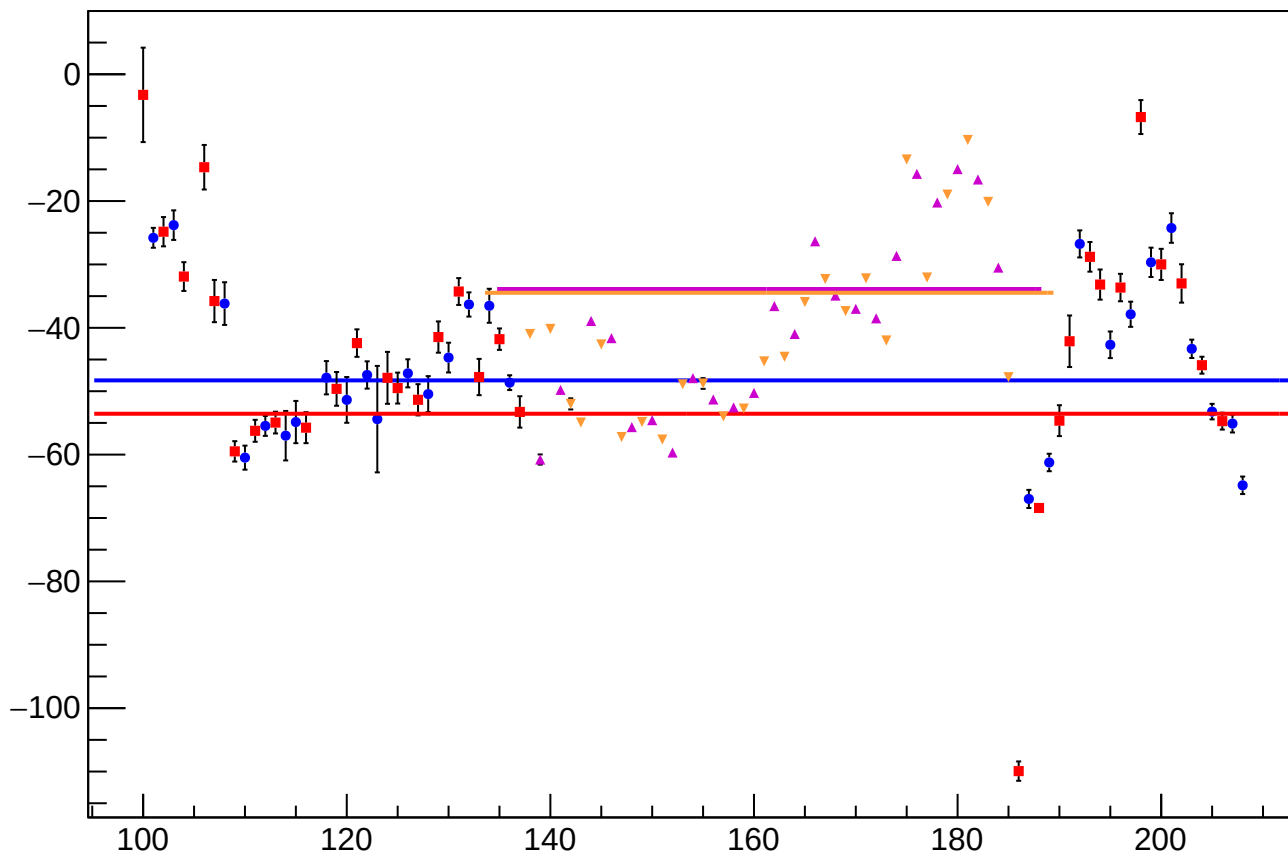
reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.718+/-0.271 χ^2/NDF : 663.2/27
 Left Out: 3.788+/-0.082 χ^2/NDF : 7150.5/24
 Right Out: -0.672+/-0.276 χ^2/NDF : 793.1/30
 Left In: 3.799+/-0.084 χ^2/NDF : 5517.0/22

Left: 3.793+/-0.059 χ^2/NDF : 12667.5/47
 Right: 0.038+/-0.193 χ^2/NDF : 1469.2/58
 In: 3.530+/-0.080 χ^2/NDF : 6298.5/50
 Out: 3.426+/-0.079 χ^2/NDF : 8183.2/55
 All: 3.478+/-0.056 χ^2/NDF : 14482.5/106

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.292 ± 0.356 $\chi^2/\text{NDF}: 1225.2/27$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -53.554 ± 0.343 $\chi^2/\text{NDF}: 3242.9/30$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

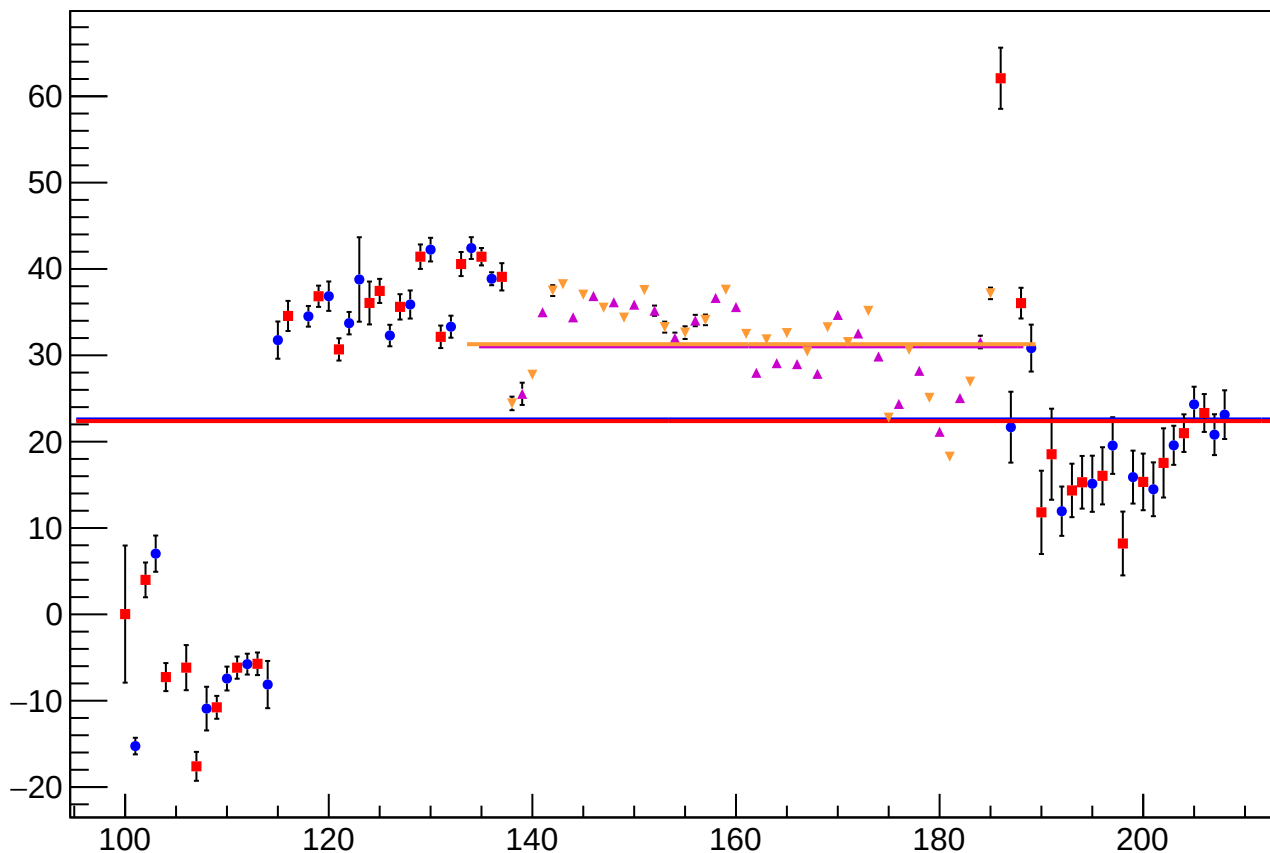
Right: -51.018 ± 0.247 $\chi^2/\text{NDF}: 4581.2/58$

In: -35.034 ± 0.101 $\chi^2/\text{NDF}: 20371.6/50$

Out: -36.072 ± 0.100 $\chi^2/\text{NDF}: 26266.7/55$

All: -35.561 ± 0.071 $\chi^2/\text{NDF}: 46691.9/106$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.574 $\pm$ 0.306 χ^2 /NDF: 4362.1/27

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.381 $\pm$ 0.315 χ^2 /NDF: 4257.7/30

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

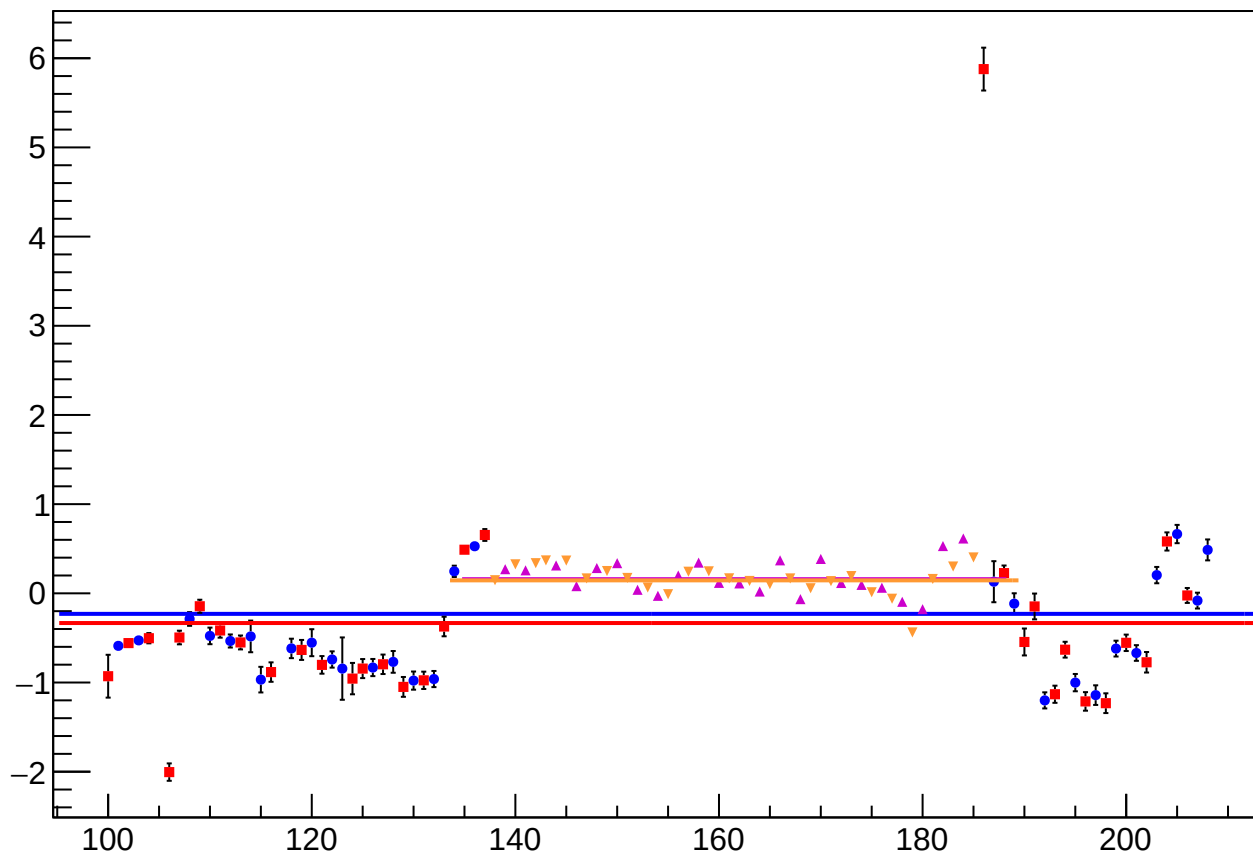
Right: 22.481 $\pm$ 0.219 χ^2 /NDF: 8620.0/58

In: 30.304 $\pm$ 0.090 χ^2 /NDF:7543.1/50

Out: 30.583 $\pm$ 0.089 χ^2 /NDF:8337.2/55

All: 30.446 $\pm$ 0.063 χ^2 /NDF: 15885.2/106

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.015 χ^2/NDF : 1436.9/27

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.333 ± 0.016 χ^2/NDF : 2221.8/30

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

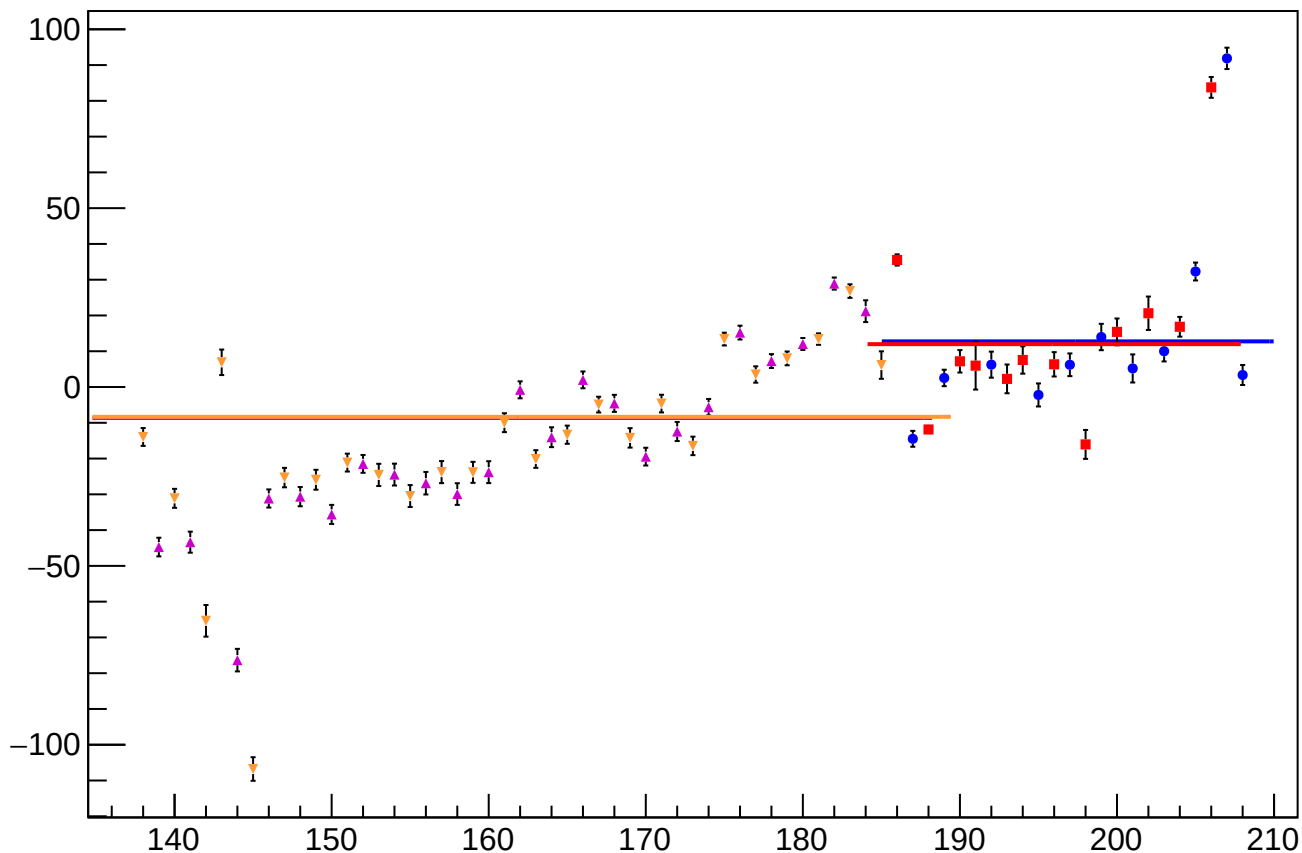
Right: -0.281 ± 0.011 χ^2/NDF : 3680.7/58

In: 0.130 ± 0.004 χ^2/NDF : 4041.3/50

Out: 0.113 ± 0.004 χ^2/NDF : 4676.2/55

All: 0.121 ± 0.003 χ^2/NDF : 8726.8/106

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.758 $\pm$ 0.869 χ^2 /NDF: 977.0/10

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF:2226.2/24

Right Out: 11.980 $\pm$ 0.740 χ^2 /NDF: 1271.1/11

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

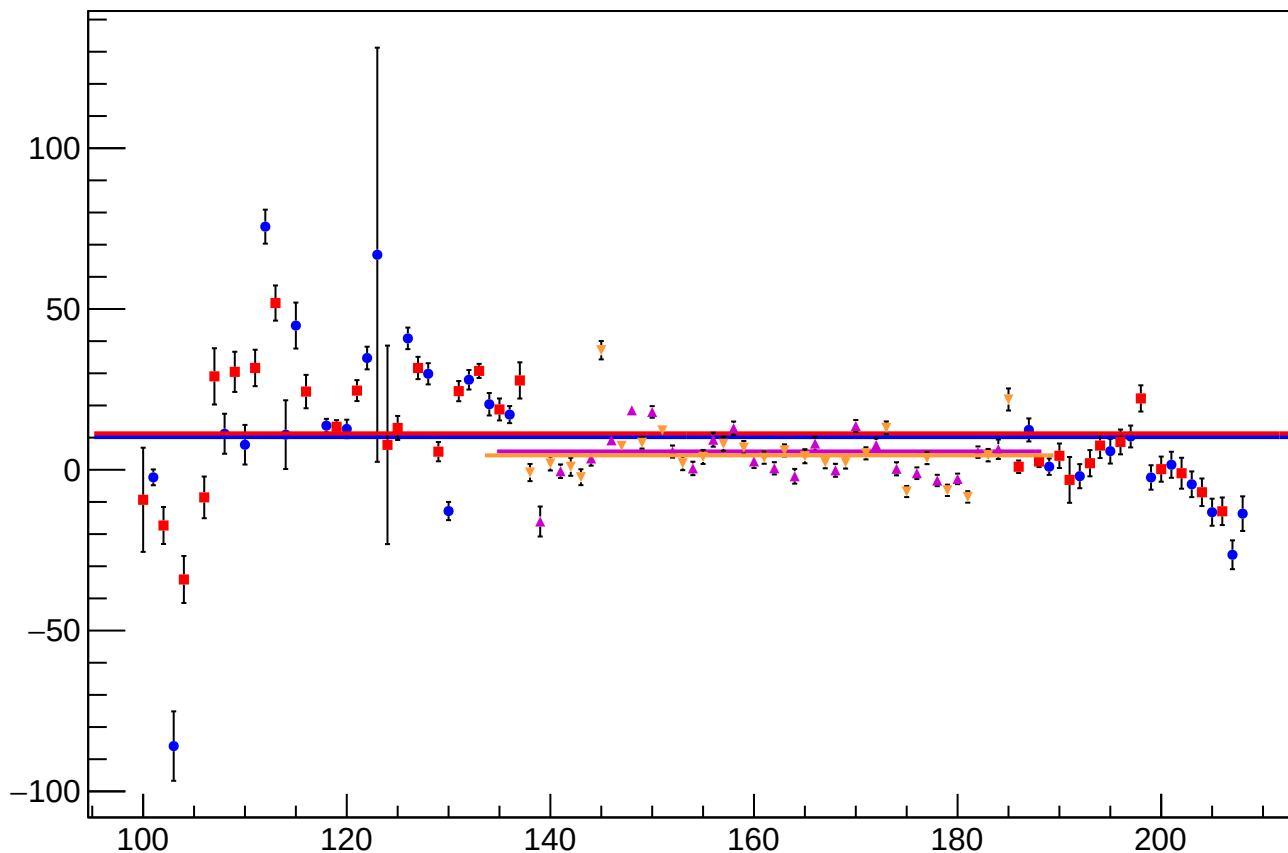
Right: 12.307 $\pm$ 0.564 χ^2 /NDF: 2248.5/22

In: -3.216 $\pm$ 0.438 χ^2 /NDF:3653.2/33

Out: -1.977 $\pm$ 0.414 χ^2 /NDF:4014.5/36

All: -2.562 $\pm$ 0.301 χ^2 /NDF: 7671.9/70

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.165 $\pm$ 0.683 χ^2 /NDF: 741.3/27

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 11.331 $\pm$ 0.646 χ^2 /NDF: 467.3/30

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF:324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

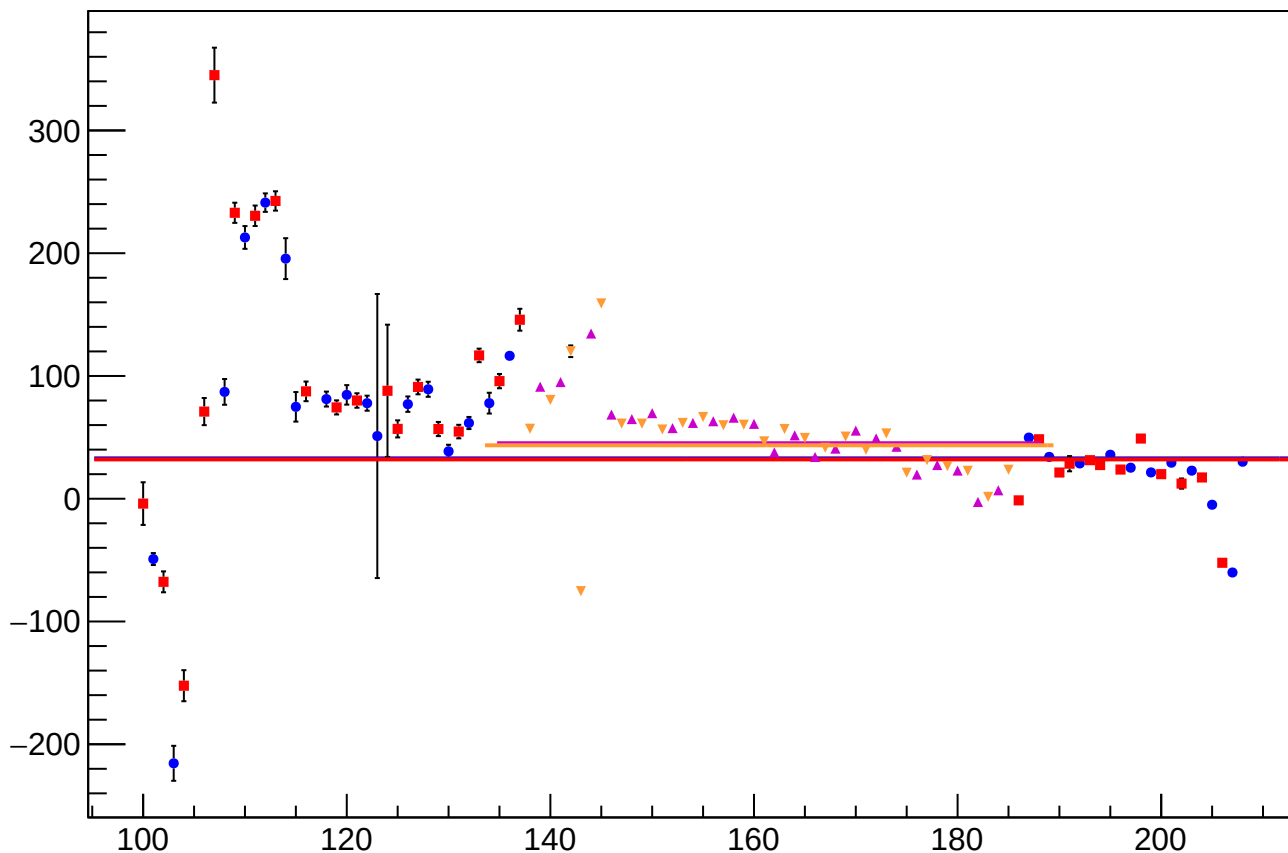
Right: 10.781 $\pm$ 0.469 χ^2 /NDF: 1210.1/58

In: 6.861 $\pm$ 0.348 χ^2 /NDF:1096.9/50

Out: 6.329 $\pm$ 0.335 χ^2 /NDF:921.3/55

All: 6.585 $\pm$ 0.241 χ^2 /NDF: 2019.4/106

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.863+/-0.707 χ^2 /NDF: 4033.6/27

Left Out: 43.524+/-0.498 χ^2 /NDF:3830.7/24

Right Out: 32.045+/-0.589 χ^2 /NDF: 5280.3/30

Left In: 45.211+/-0.504 χ^2 /NDF:3048.5/22

Left: 44.358+/-0.354 χ^2 /NDF: 6884.8/47

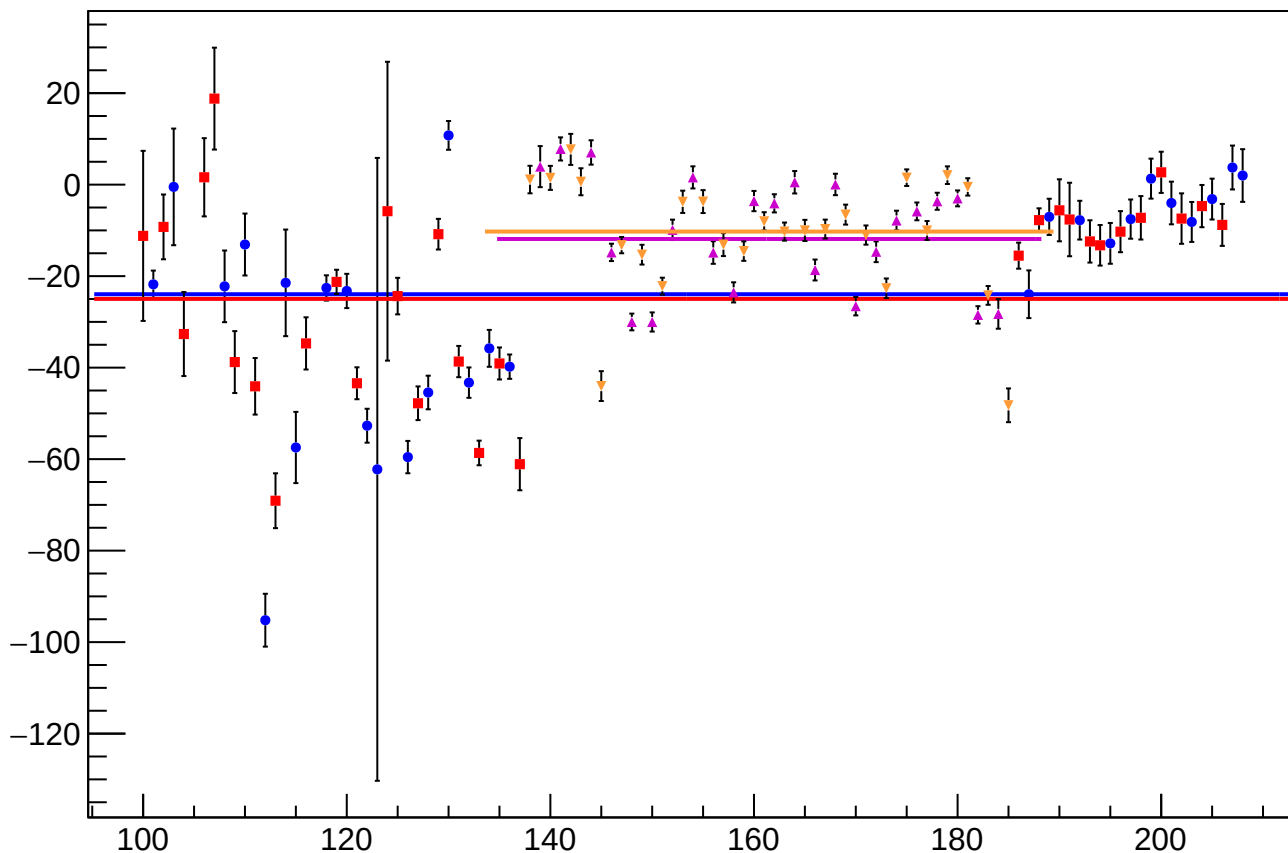
Right: 32.380+/-0.453 χ^2 /NDF: 9314.7/58

In: 41.049+/-0.411 χ^2 /NDF:7284.2/50

Out: 38.735+/-0.380 χ^2 /NDF:9332.3/55

All: 39.804+/-0.279 χ^2 /NDF: 16633.7/106

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.957 ± 0.798 $\chi^2/\text{NDF}: 767.4/27$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -24.971 ± 0.784 $\chi^2/\text{NDF}: 604.7/30$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

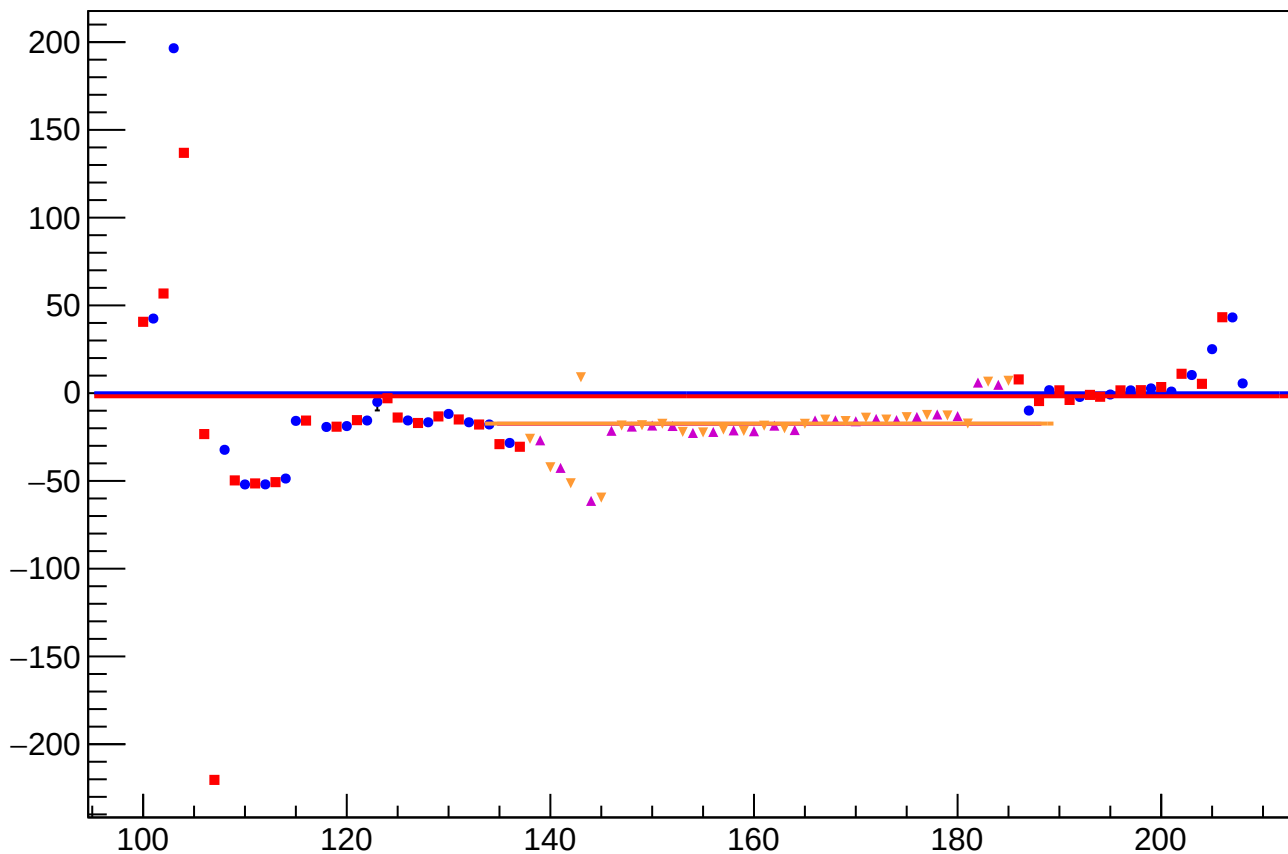
Right: -24.474 ± 0.559 $\chi^2/\text{NDF}: 1372.9/58$

In: -14.849 ± 0.396 $\chi^2/\text{NDF}: 1606.2/50$

Out: -13.836 ± 0.386 $\chi^2/\text{NDF}: 1424.0/55$

All: -14.330 ± 0.277 $\chi^2/\text{NDF}: 3033.6/106$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.076 ± 0.037 χ^2/NDF : 673845.6/27

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.781 ± 0.036 χ^2/NDF : 670996.2/30

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

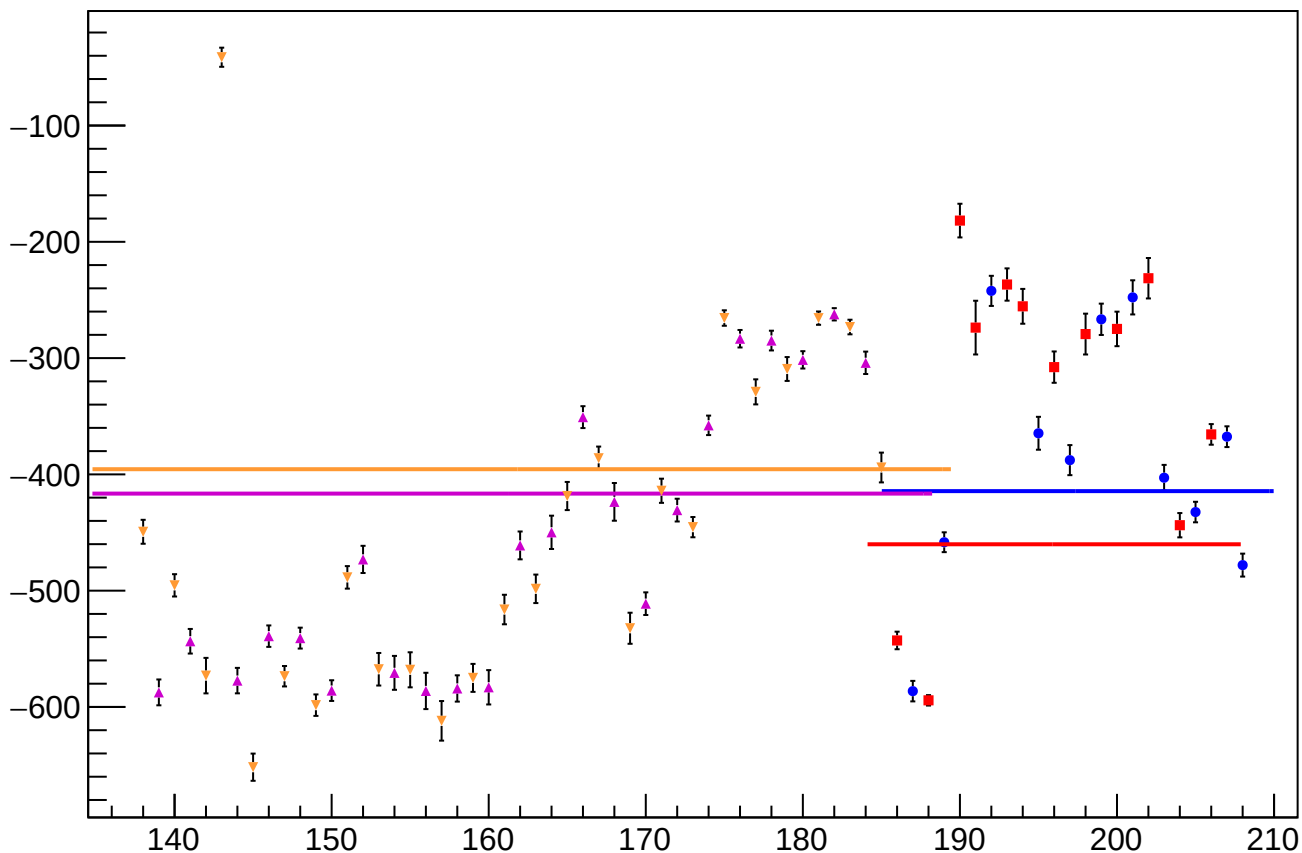
Right: -0.952 ± 0.026 χ^2/NDF : 1345907.0/58

In: -13.421 ± 0.018 χ^2/NDF : 1098880.3/50

Out: -13.620 ± 0.018 χ^2/NDF : 1134947.3/55

All: -13.522 ± 0.013 χ^2/NDF : 2233889.0/106

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -414.392 $\pm$ 3.202 χ^2/NDF : 924.0/10

Left Out: -395.547 $\pm$ 1.953 χ^2/NDF : 5946.5/24

Right Out: -460.104 $\pm$ 2.863 χ^2/NDF : 2574.1/11

Left In: -416.521 $\pm$ 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 $\pm$ 1.399 χ^2/NDF : 9919.7/47

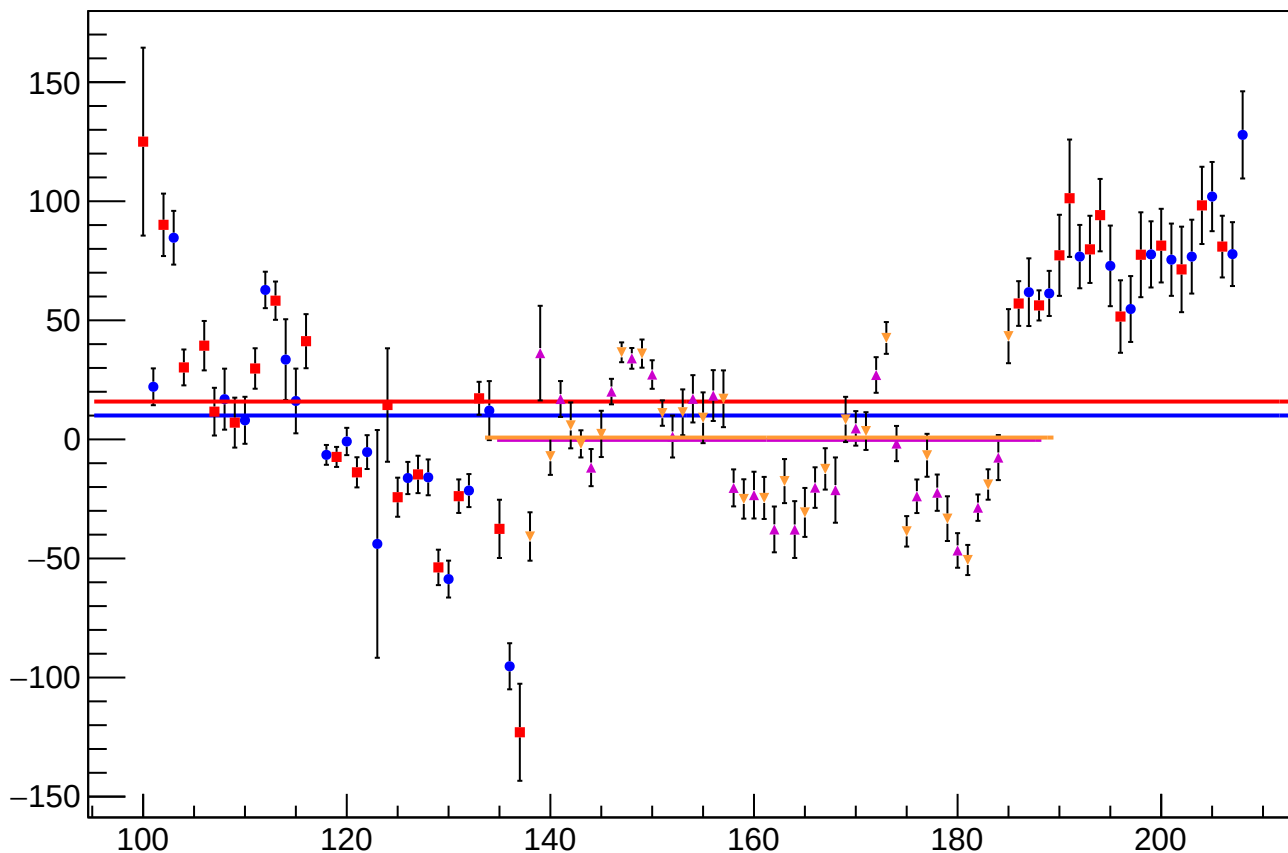
Right: -439.792 $\pm$ 2.134 χ^2/NDF : 3611.4/22

In: -415.922 $\pm$ 1.699 χ^2/NDF : 4841.3/33

Out: -416.054 $\pm$ 1.614 χ^2/NDF : 8867.6/36

All: -415.991 $\pm$ 1.170 χ^2/NDF : 13708.9/70

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.035 ± 1.749 $\chi^2/\text{NDF}: 625.8/27$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 15.891 ± 1.697 $\chi^2/\text{NDF}: 589.6/30$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

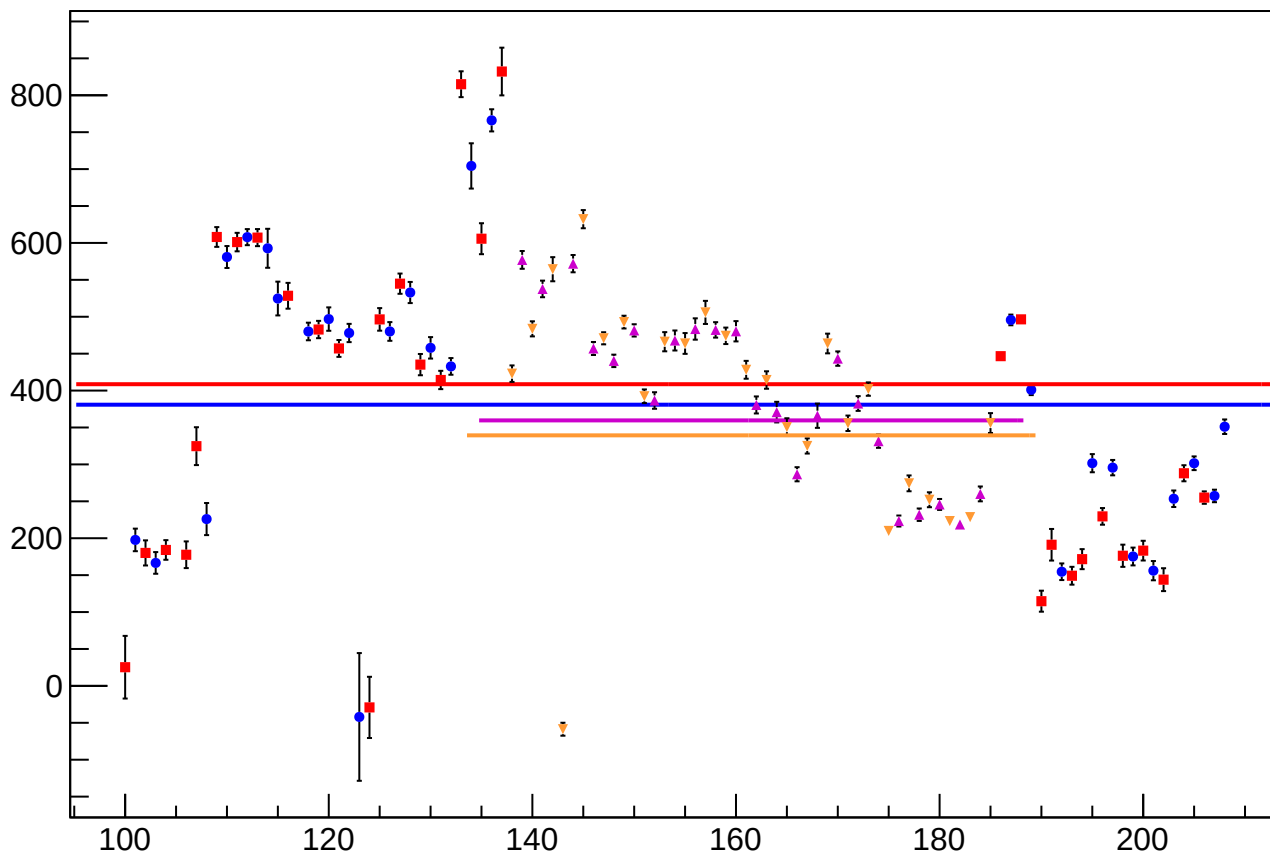
Right: 13.052 ± 1.218 $\chi^2/\text{NDF}: 1221.2/58$

In: 4.382 ± 1.171 $\chi^2/\text{NDF}: 905.5/50$

Out: 7.416 ± 1.125 $\chi^2/\text{NDF}: 984.2/55$

All: 5.959 ± 0.811 $\chi^2/\text{NDF}: 1893.2/106$

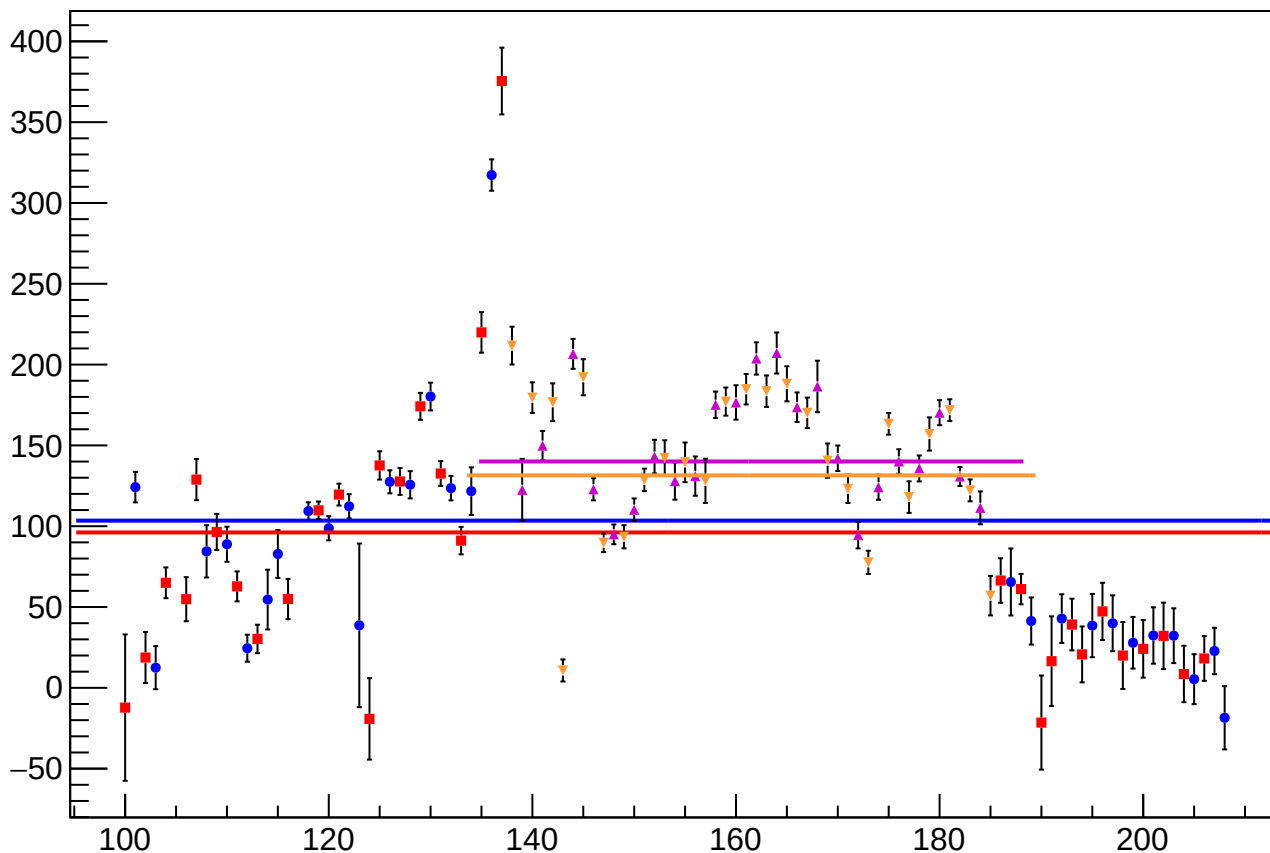
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 380.871 ± 2.277 $\chi^2/\text{NDF}: 4113.3/27$
 Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$
 Right Out: 408.633 ± 2.008 $\chi^2/\text{NDF}: 6077.4/30$
 Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$
 Right: 396.489 ± 1.506 $\chi^2/\text{NDF}: 10274.2/58$
 In: 368.882 ± 1.504 $\chi^2/\text{NDF}: 7560.9/50$
 Out: 373.202 ± 1.404 $\chi^2/\text{NDF}: 12188.6/55$
 All: 371.191 ± 1.026 $\chi^2/\text{NDF}: 19753.9/106$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 103.460 $\pm$ 2.038 χ^2 /NDF: 977.4/27

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 96.148 $\pm$ 1.997 χ^2 /NDF: 782.0/30

Left In: 140.069 $\pm$ 1.795 χ^2 /NDF: 316.5/22

Left: 135.602 $\pm$ 1.245 χ^2 /NDF: 1137.8/47

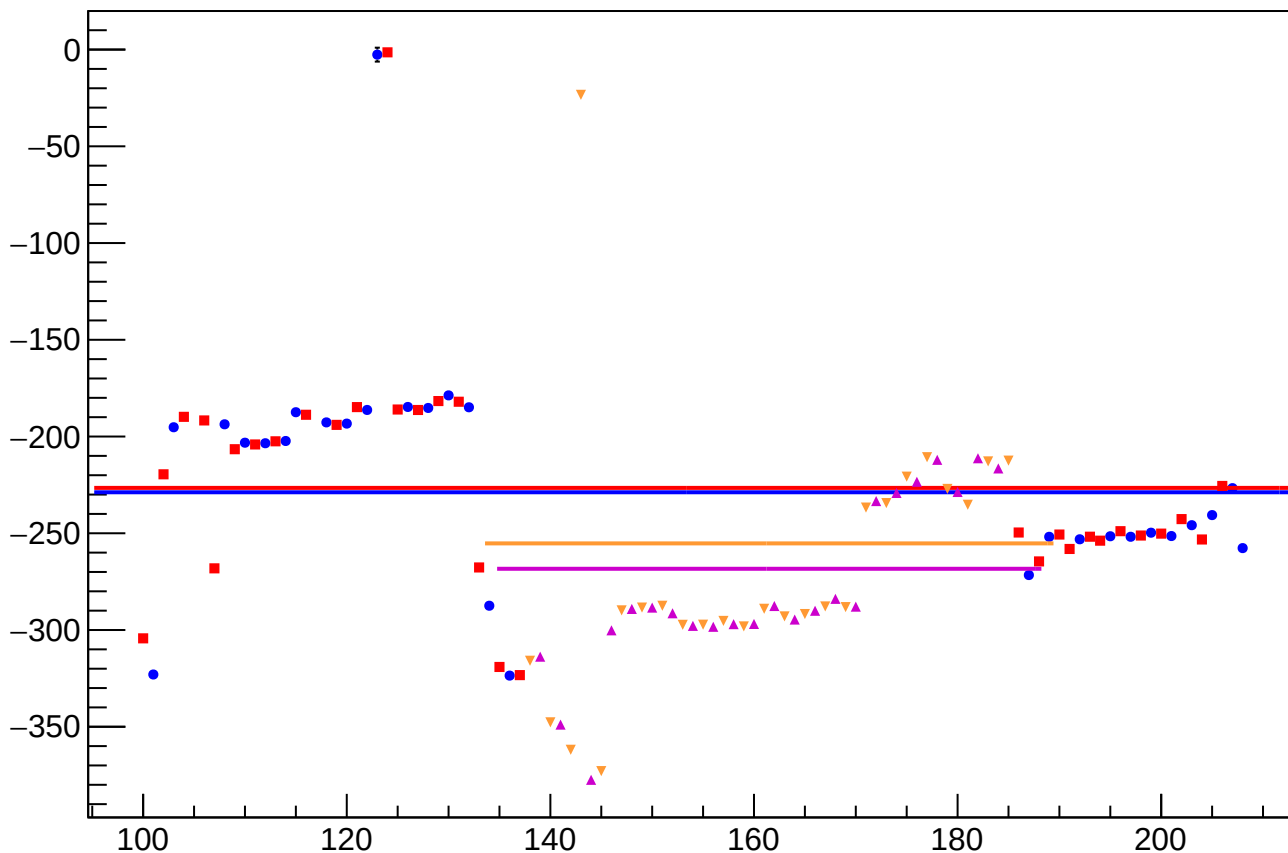
Right: 99.730 $\pm$ 1.426 χ^2 /NDF: 1766.0/58

In: 124.076 $\pm$ 1.347 χ^2 /NDF: 1475.6/50

Out: 116.348 $\pm$ 1.307 χ^2 /NDF: 1770.2/55

All: 120.094 $\pm$ 0.938 χ^2 /NDF: 3262.8/106

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.810+/-0.108 χ^2/NDF : 168354.8/27

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -226.543+/-0.103 χ^2/NDF : 149156.8/30

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

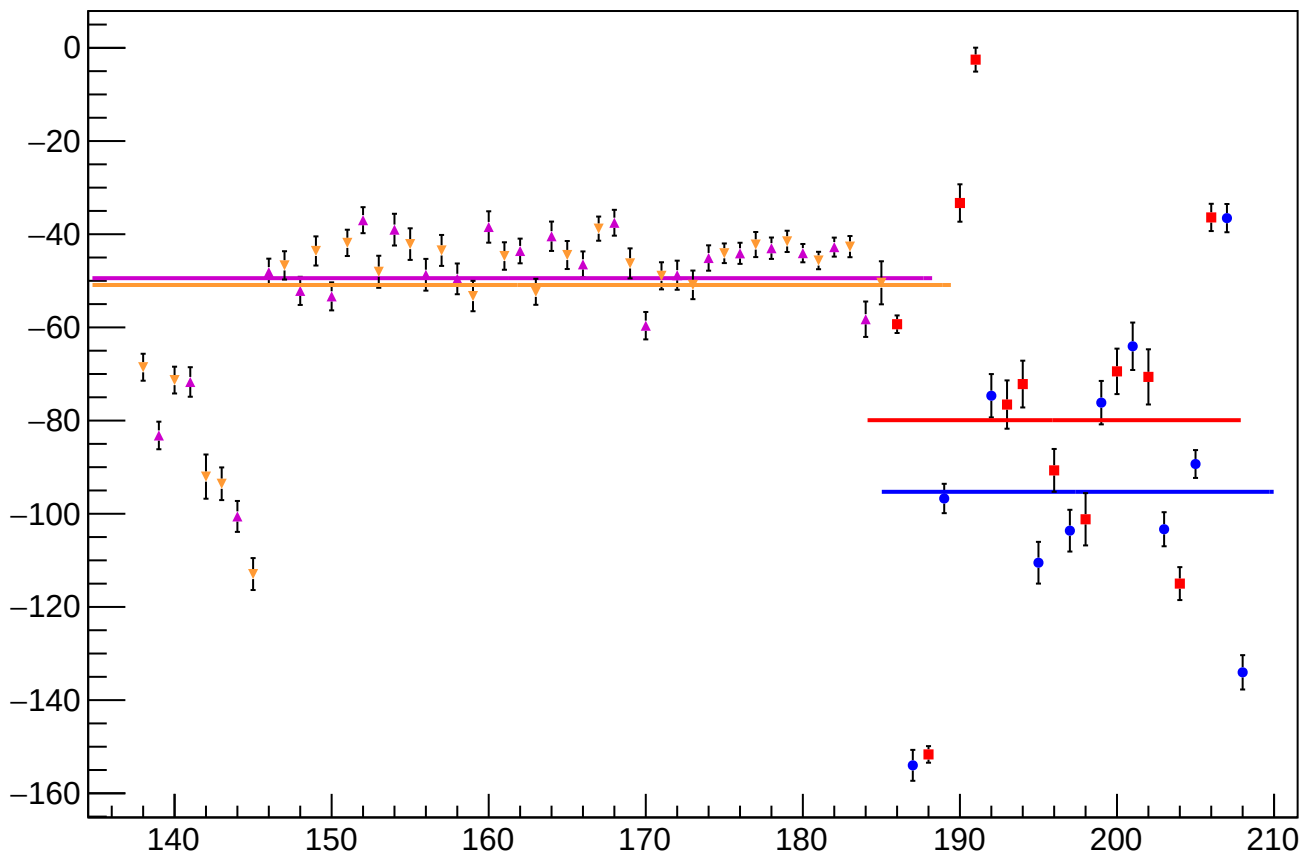
Right: -227.624+/-0.075 χ^2/NDF : 317740.5/58

In: -253.606+/-0.066 χ^2/NDF : 514222.1/50

Out: -244.171+/-0.064 χ^2/NDF : 924411.4/55

All: -248.746+/-0.046 χ^2/NDF : 1449091.5/10

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -95.288 ± 1.124 $\chi^2/\text{NDF}: 897.5/10$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -79.914 ± 0.900 $\chi^2/\text{NDF}: 3135.0/11$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

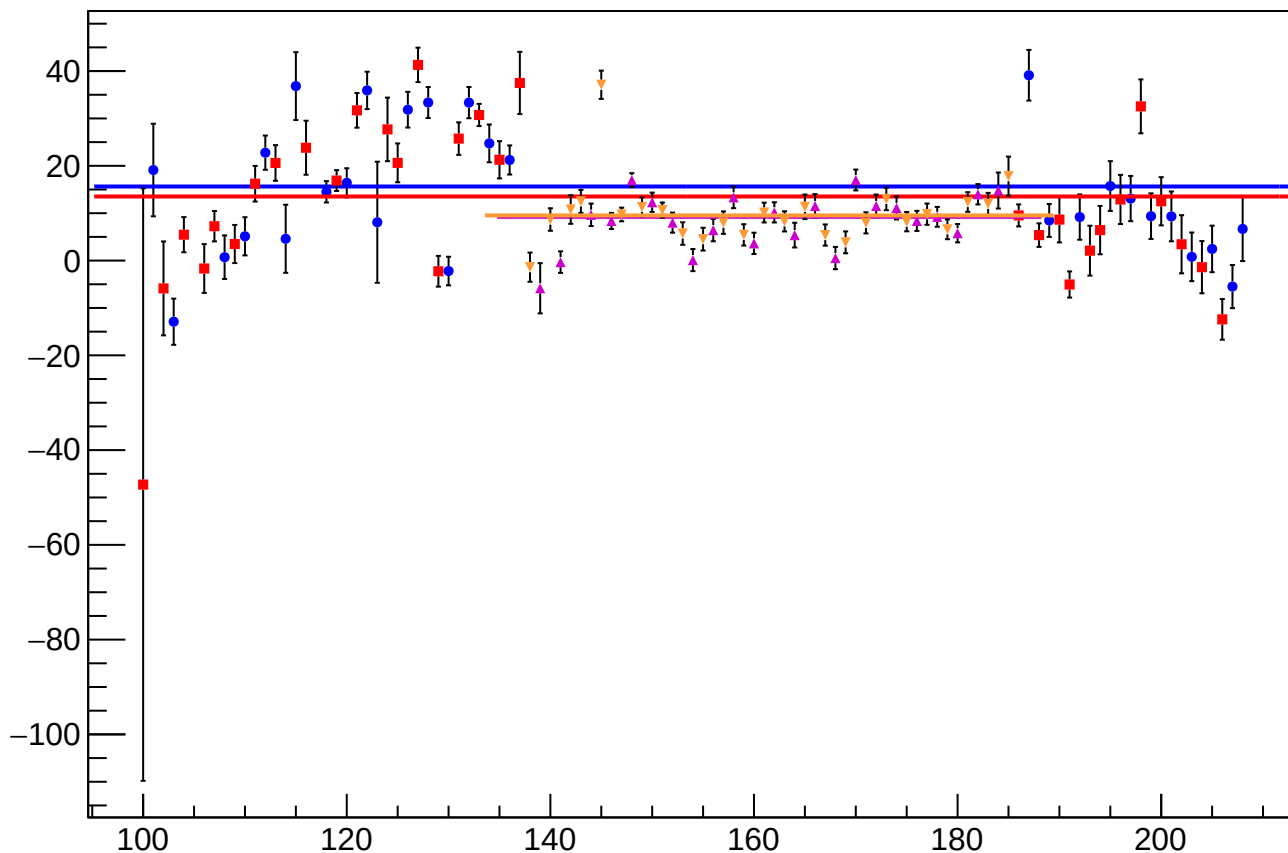
Right: -85.921 ± 0.703 $\chi^2/\text{NDF}: 4146.3/22$

In: -59.174 ± 0.518 $\chi^2/\text{NDF}: 2751.0/33$

Out: -59.257 ± 0.483 $\chi^2/\text{NDF}: 4635.5/36$

All: -59.218 ± 0.353 $\chi^2/\text{NDF}: 7386.5/70$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.636 $\pm$ 0.777 χ^2 /NDF: 281.7/27

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.528 $\pm$ 0.681 χ^2 /NDF: 360.2/30

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

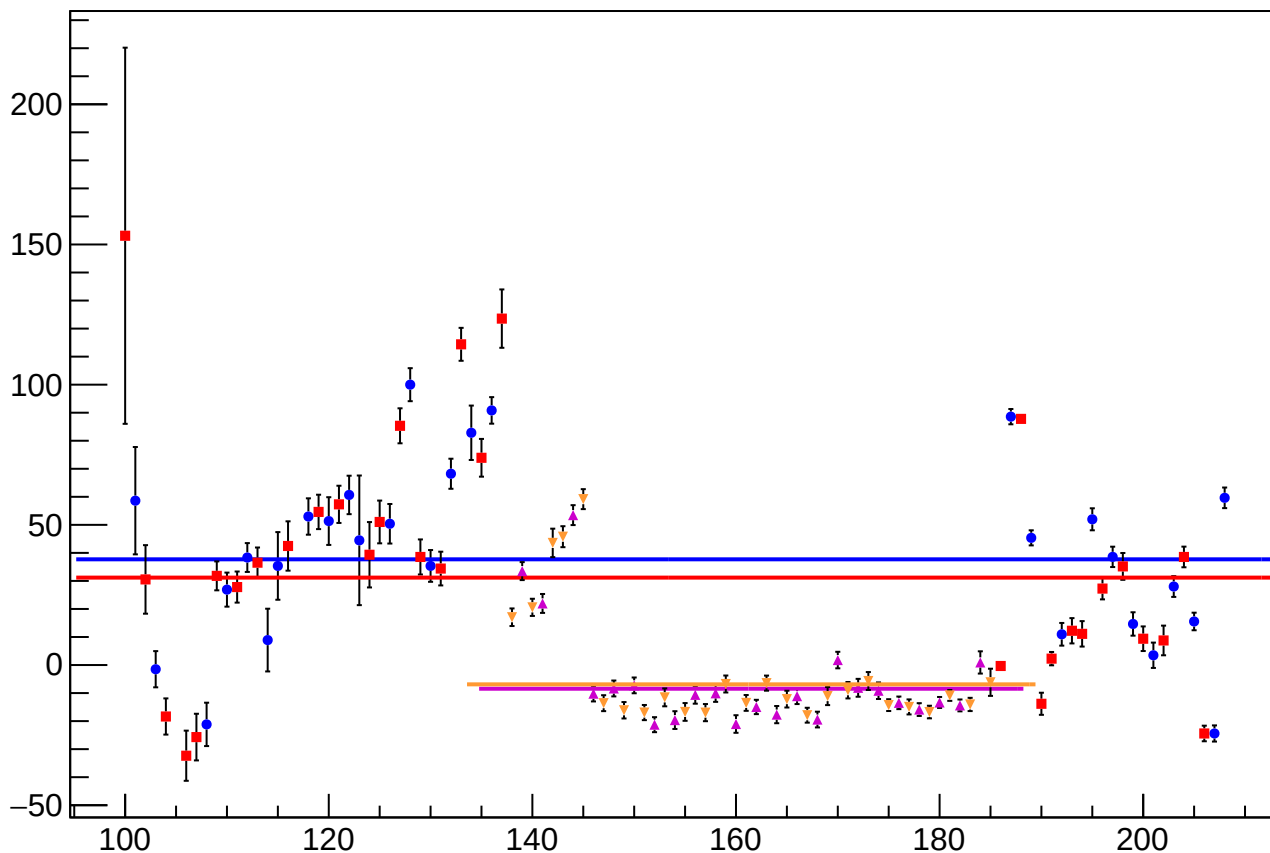
Right: 14.443 $\pm$ 0.512 χ^2 /NDF: 646.1/58

In: 10.902 $\pm$ 0.397 χ^2 /NDF:455.9/50

Out: 10.730 $\pm$ 0.373 χ^2 /NDF:518.7/55

All: 10.810 $\pm$ 0.272 χ^2 /NDF: 974.7/106

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.705 $\pm$ 0.876 χ^2 /NDF: 1479.0/27

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 31.182 $\pm$ 0.698 χ^2 /NDF: 3349.2/30

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

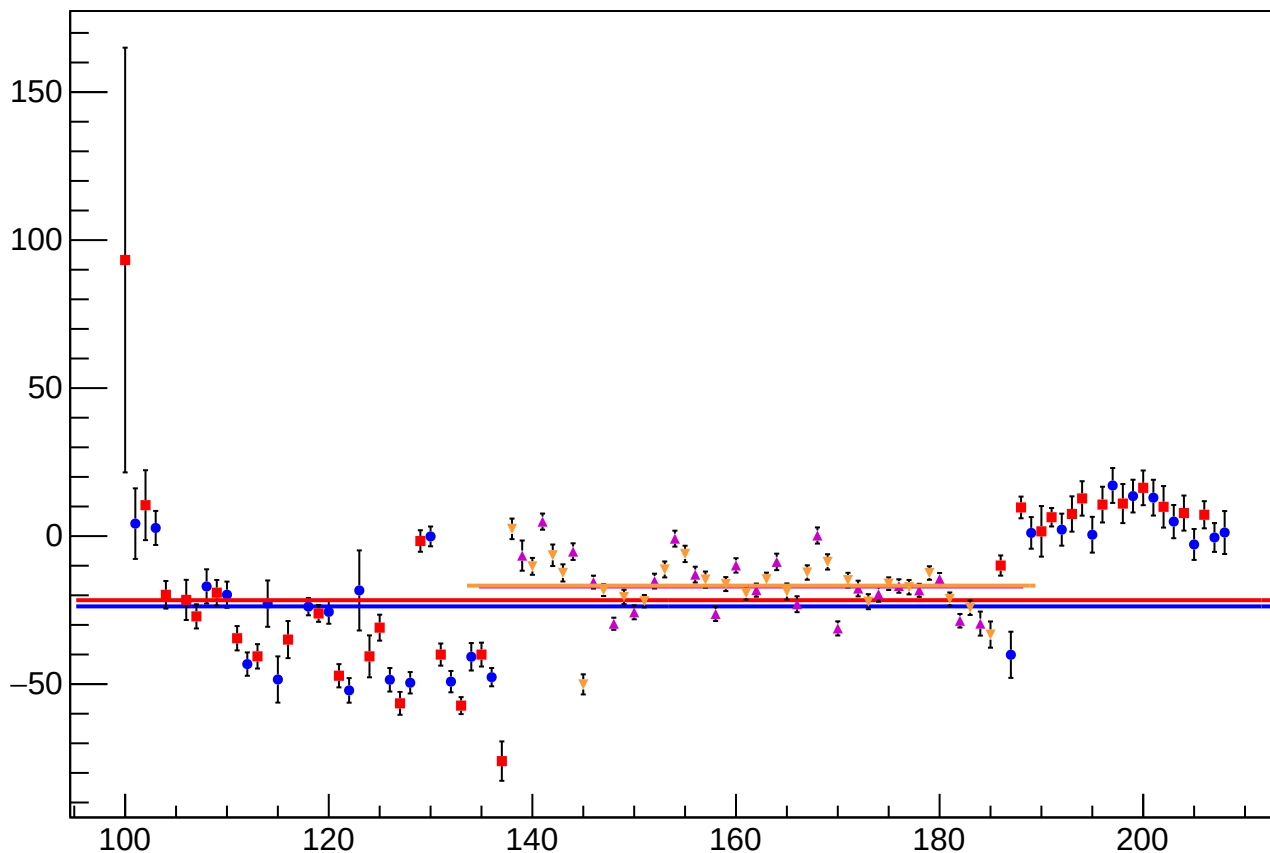
Right: 33.717 $\pm$ 0.546 χ^2 /NDF: 4862.1/58

In: 5.616 $\pm$ 0.483 χ^2 /NDF: 4099.3/50

Out: 8.372 $\pm$ 0.442 χ^2 /NDF: 6045.4/55

All: 7.118 $\pm$ 0.326 χ^2 /NDF: 10162.4/106

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.747 ± 0.896 $\chi^2/\text{NDF}: 646.0/27$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -21.645 ± 0.810 $\chi^2/\text{NDF}: 893.1/30$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

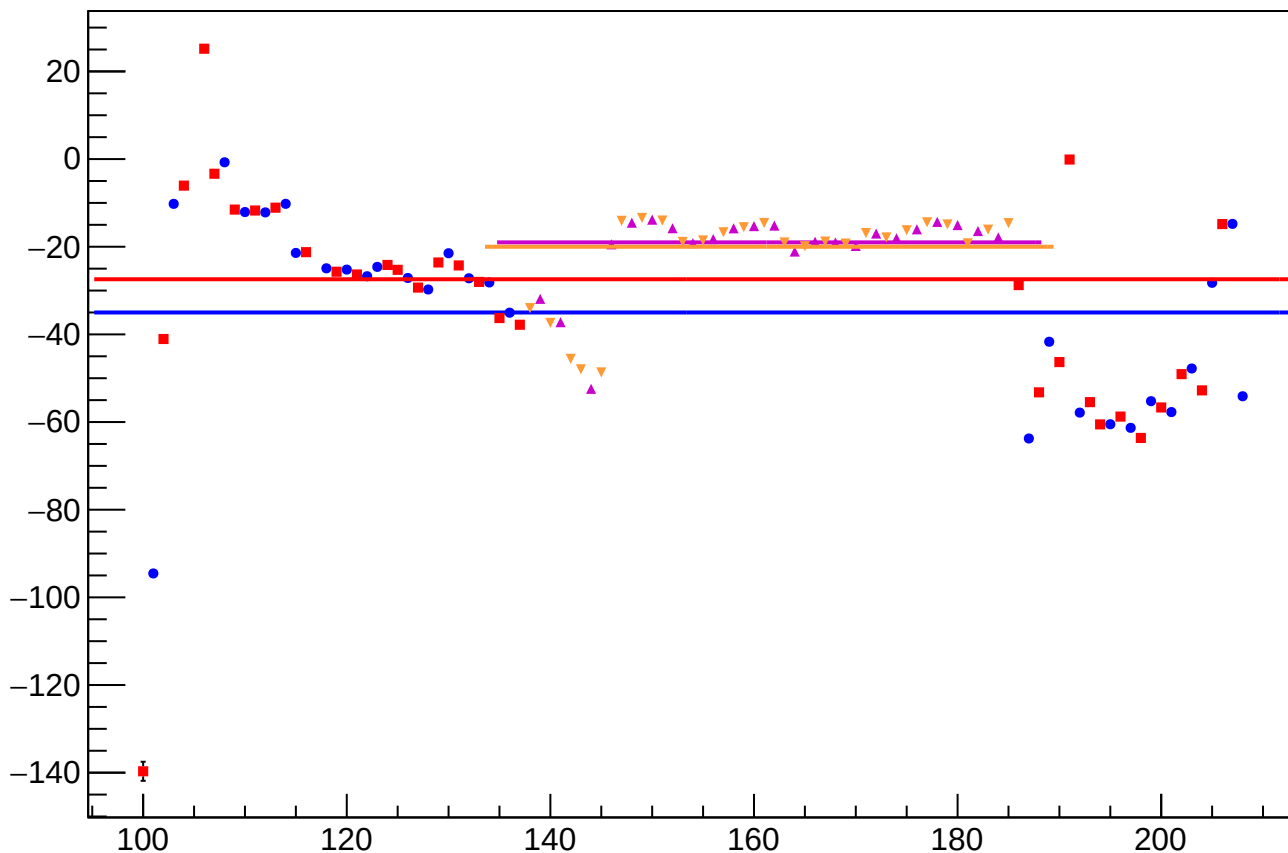
Right: -22.590 ± 0.601 $\chi^2/\text{NDF}: 1542.2/58$

In: -18.727 ± 0.451 $\chi^2/\text{NDF}: 1015.7/50$

Out: -18.115 ± 0.430 $\chi^2/\text{NDF}: 1142.9/55$

All: -18.406 ± 0.311 $\chi^2/\text{NDF}: 2159.5/106$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.001 $\pm$ 0.042 χ^2 /NDF: 217628.6/27

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF: 145623.8/24

Right Out: -27.419 $\pm$ 0.037 χ^2 /NDF: 414211.5/30

Left In: -19.007 $\pm$ 0.024 χ^2 /NDF: 90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2 /NDF: 237400.2/47

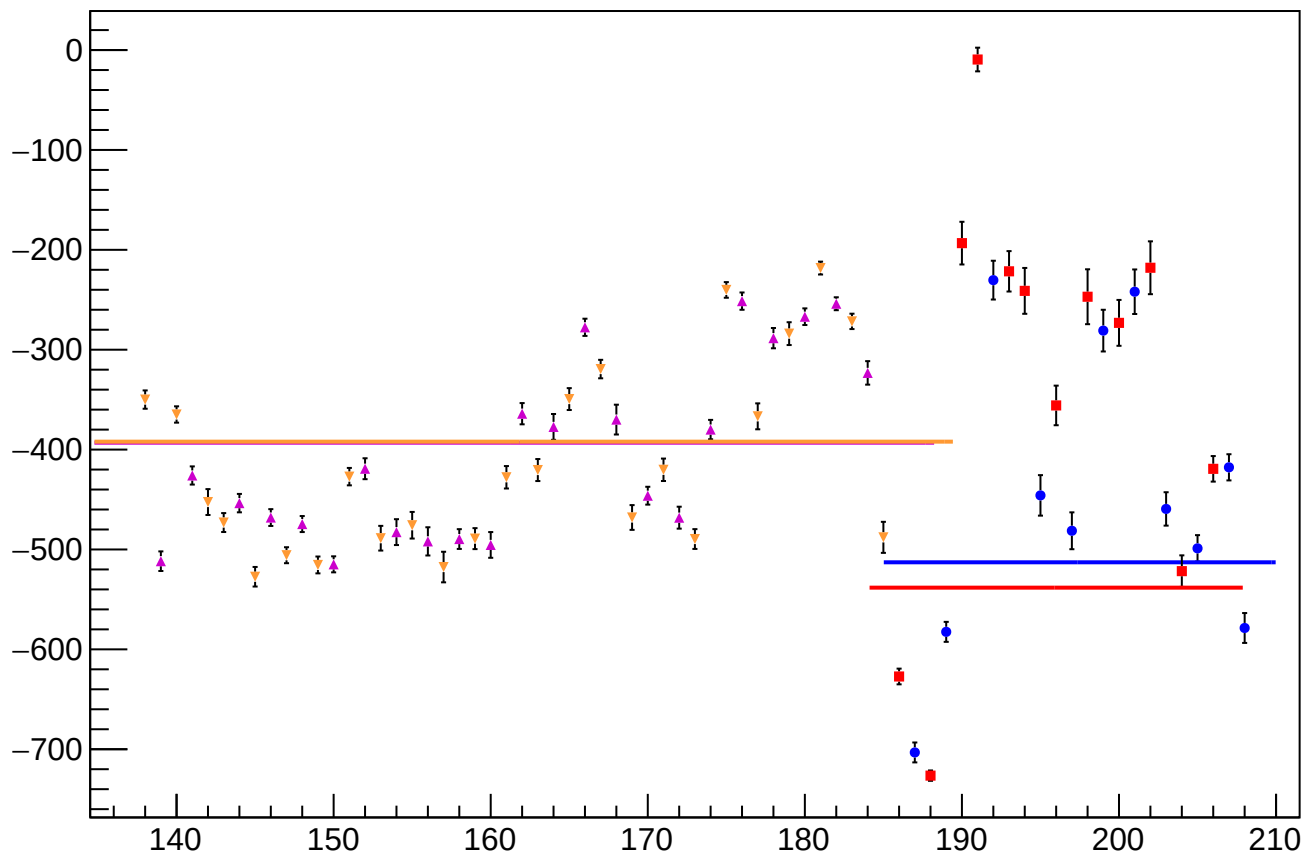
Right: -30.703 $\pm$ 0.028 χ^2 /NDF: 650015.5/58

In: -22.816 $\pm$ 0.021 χ^2 /NDF: 417192.7/50

Out: -22.109 $\pm$ 0.020 χ^2 /NDF: 588567.7/55

All: -22.446 $\pm$ 0.014 χ^2 /NDF: 1006372.4/106

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -512.848+/-4.386 χ^2/NDF : 993.4/10

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -538.229+/-3.442 χ^2/NDF : 4675.0/11

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

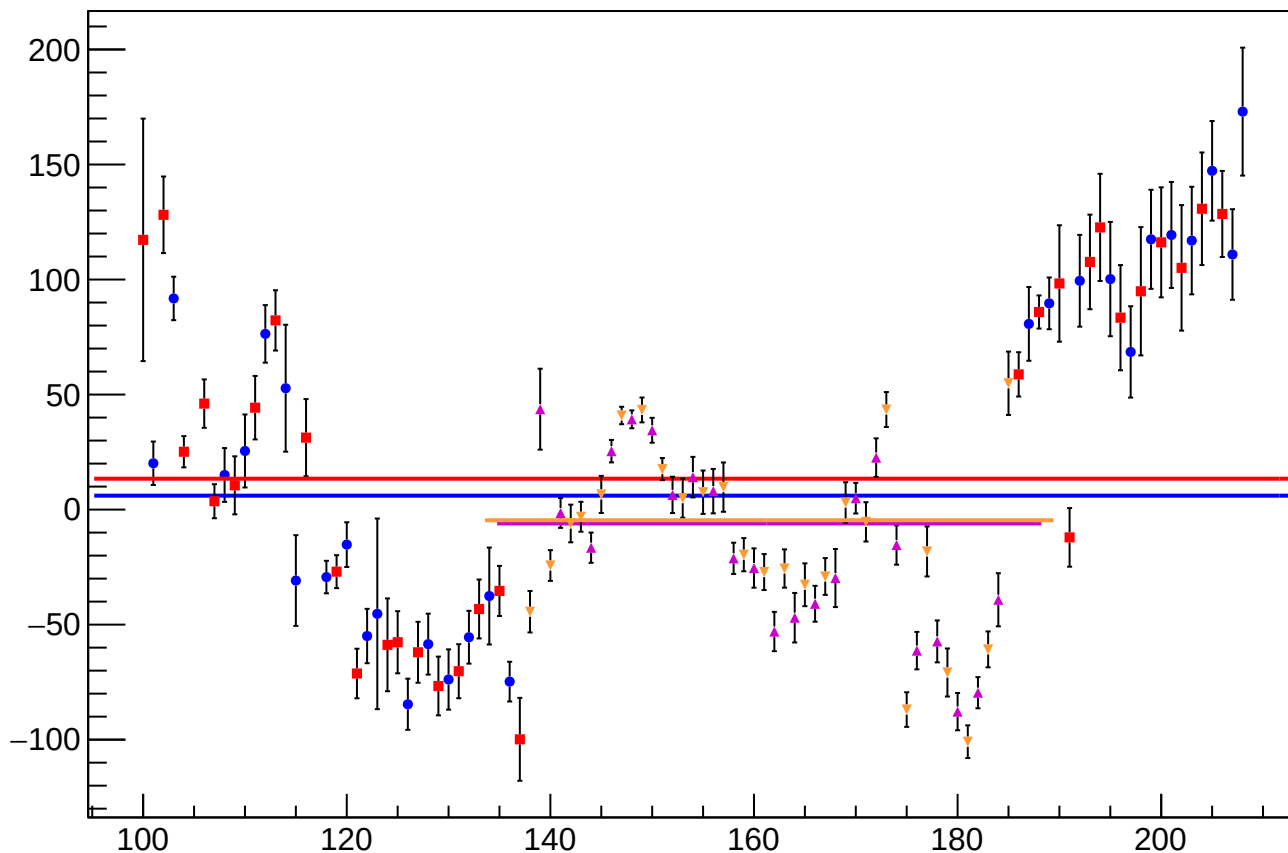
Right: -528.556+/-2.708 χ^2/NDF : 5689.1/22

In: -413.820+/-1.824 χ^2/NDF : 3863.1/33

Out: -428.032+/-1.707 χ^2/NDF : 8752.0/36

All: -421.394+/-1.246 χ^2/NDF : 12647.5/70

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.060 ± 2.535 $\chi^2/\text{NDF}: 734.6/27$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 13.433 ± 2.239 $\chi^2/\text{NDF}: 736.1/30$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

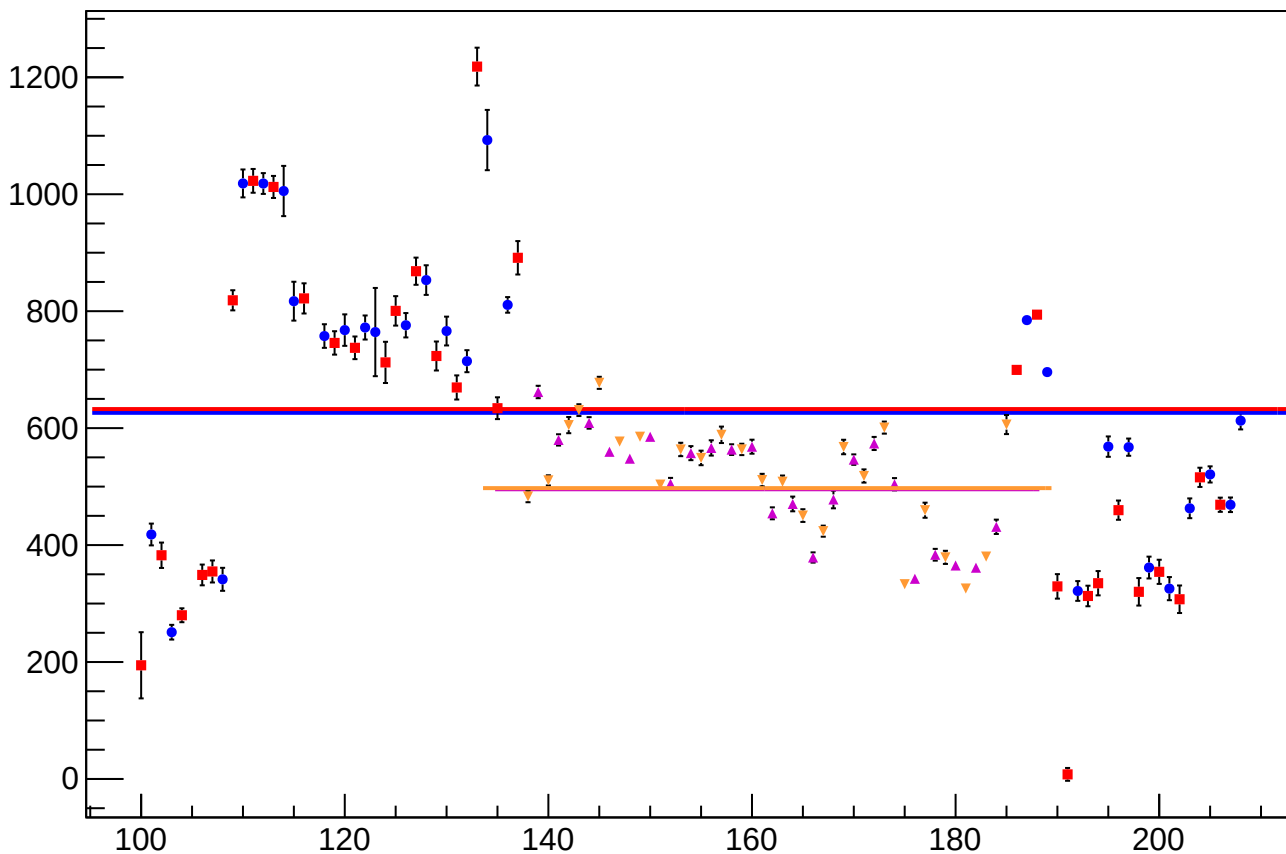
Right: 10.202 ± 1.678 $\chi^2/\text{NDF}: 1475.4/58$

In: -2.836 ± 1.301 $\chi^2/\text{NDF}: 1405.4/50$

Out: 0.774 ± 1.224 $\chi^2/\text{NDF}: 1554.6/55$

All: -0.921 ± 0.892 $\chi^2/\text{NDF}: 2964.0/106$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 626.197 ± 3.090 $\chi^2/\text{NDF}: 4212.8/27$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 632.592 ± 2.473 $\chi^2/\text{NDF}: 9621.8/30$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

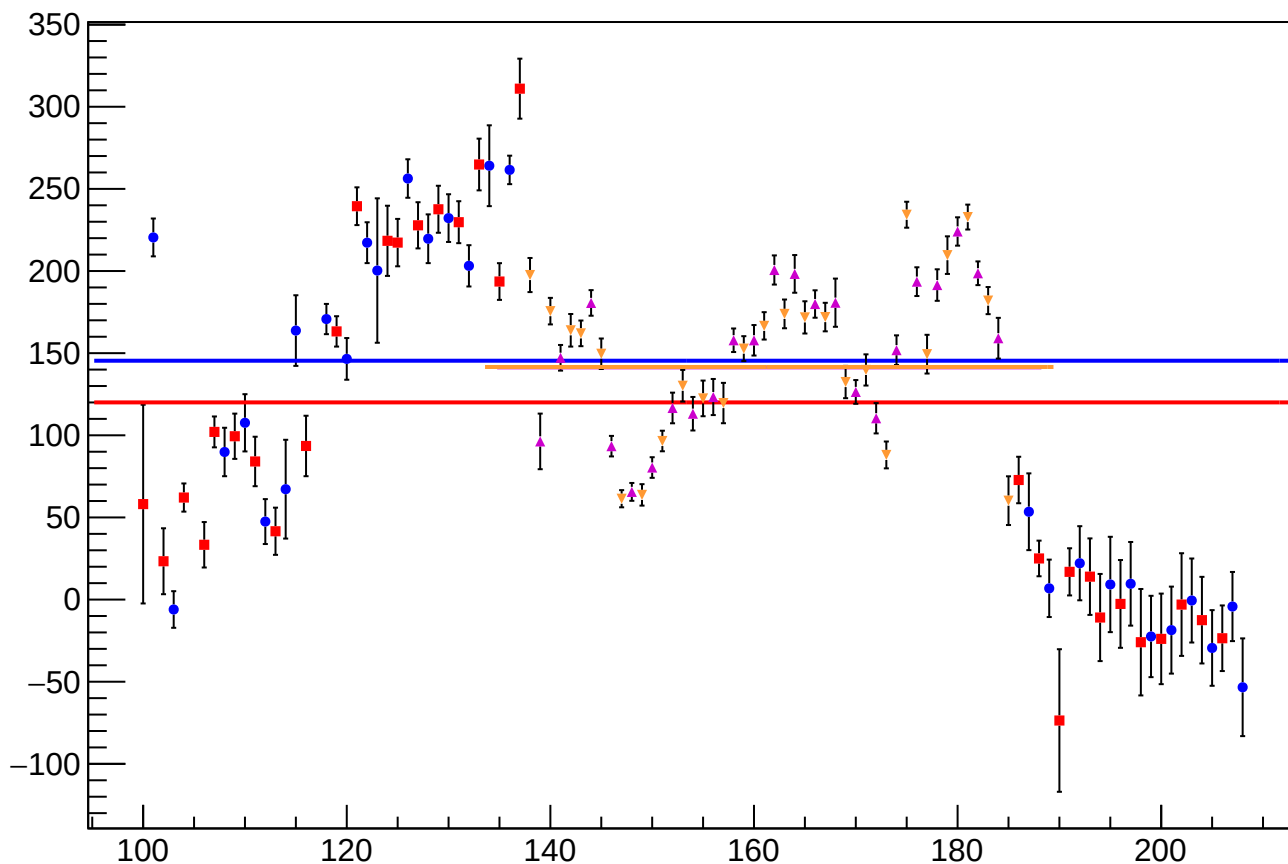
Right: 630.095 ± 1.931 $\chi^2/\text{NDF}: 13837.2/58$

In: 533.846 ± 1.674 $\chi^2/\text{NDF}: 7731.3/50$

Out: 549.750 ± 1.539 $\chi^2/\text{NDF}: 14068.5/55$

All: 542.468 ± 1.133 $\chi^2/\text{NDF}: 21848.8/106$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 145.399 $\pm$ 2.954 χ^2 /NDF: 1149.9/27

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 120.026 $\pm$ 2.686 χ^2 /NDF: 1152.2/30

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

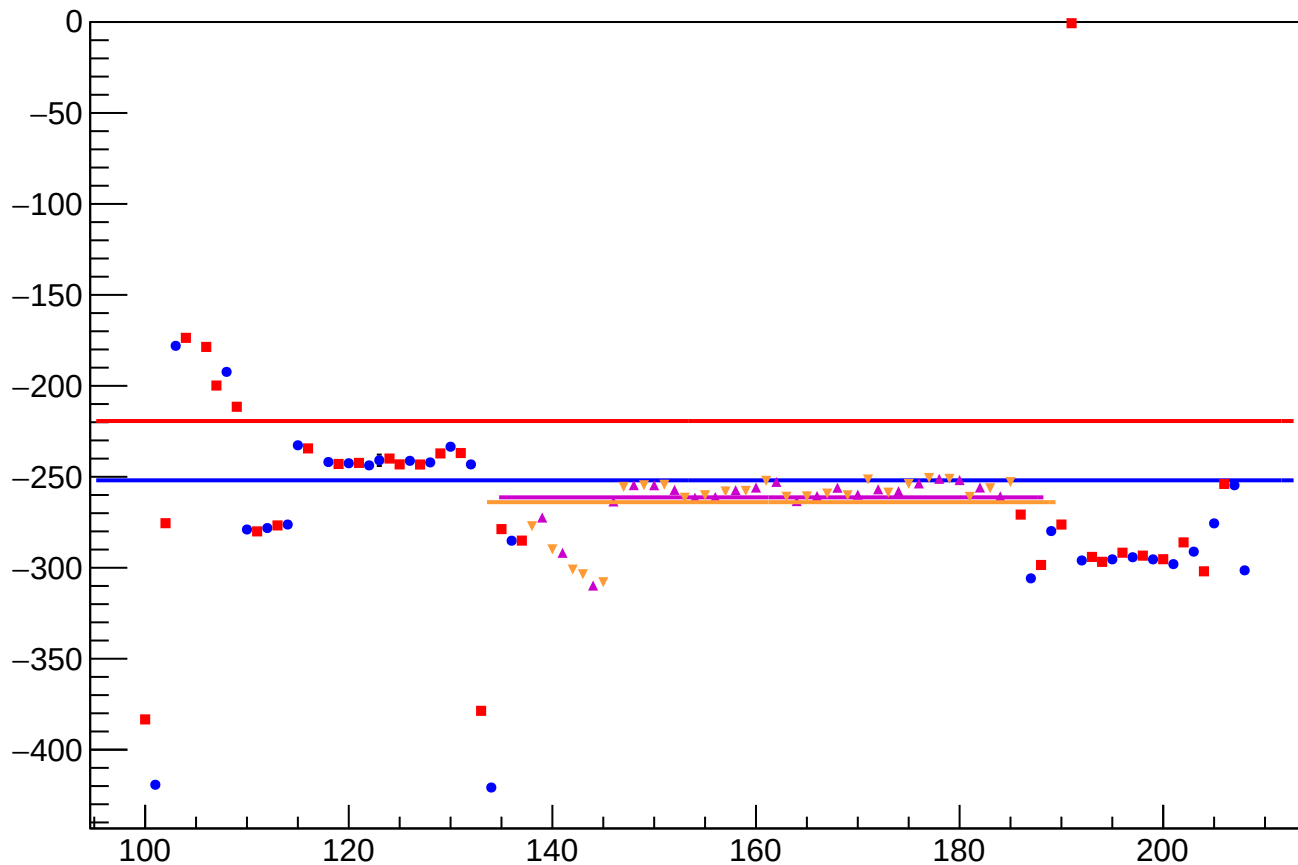
Right: 131.512 $\pm$ 1.987 χ^2 /NDF: 2342.5/58

In: 142.408 $\pm$ 1.504 χ^2 /NDF:1892.5/50

Out: 135.431 $\pm$ 1.436 χ^2 /NDF:2157.8/55

All: 138.756 $\pm$ 1.039 χ^2 /NDF: 4061.6/106

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.934 ± 0.137 $\chi^2/\text{NDF}: 196935.0/27$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -219.340 ± 0.123 $\chi^2/\text{NDF}: 492994.2/30$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

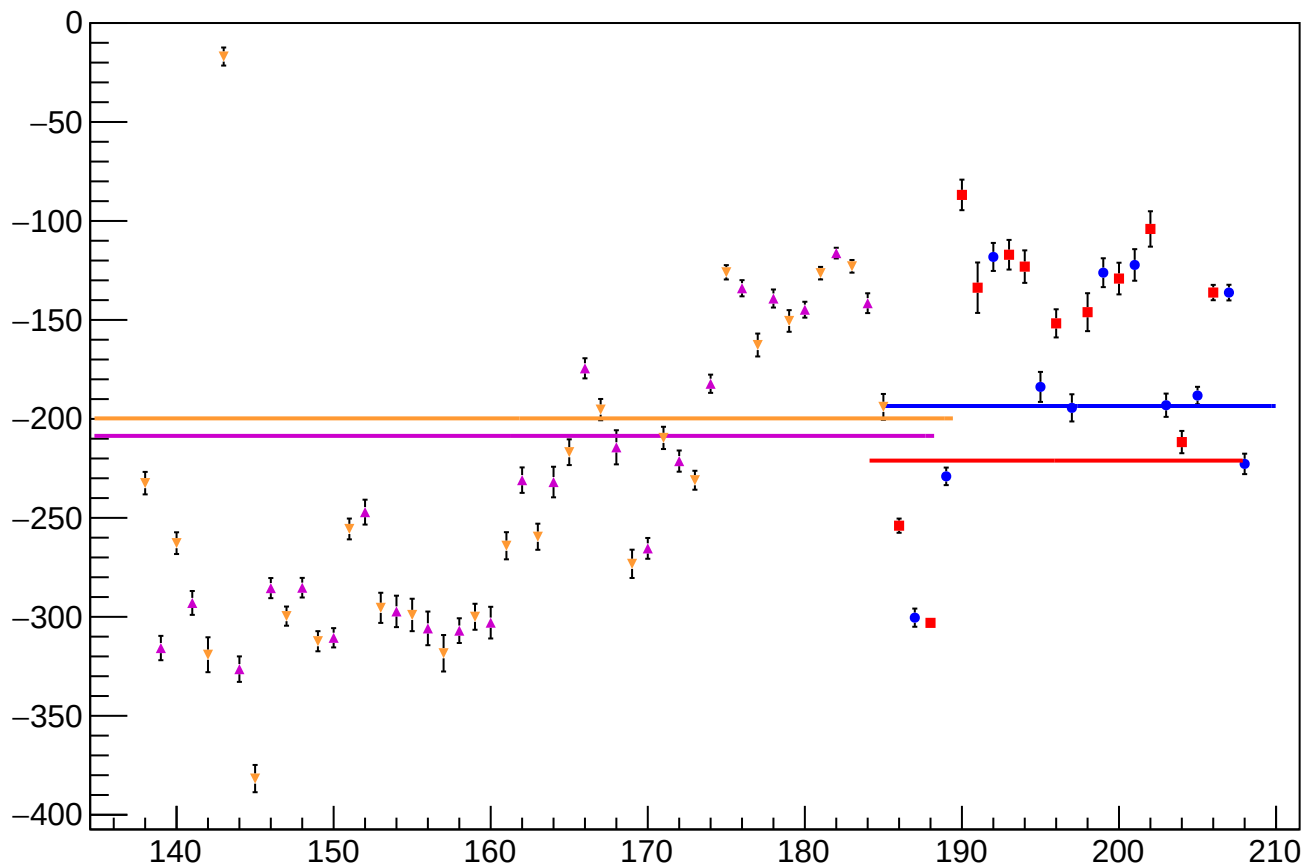
Right: -233.883 ± 0.092 $\chi^2/\text{NDF}: 721224.1/58$

In: -258.824 ± 0.070 $\chi^2/\text{NDF}: 223710.4/50$

Out: -250.405 ± 0.068 $\chi^2/\text{NDF}: 623558.1/55$

All: -254.459 ± 0.049 $\chi^2/\text{NDF}: 854692.4/106$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -193.484+/-1.637 χ^2/NDF : 1129.9/10

Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24

Right Out: -221.069+/-1.461 χ^2/NDF : 2907.5/11

Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47

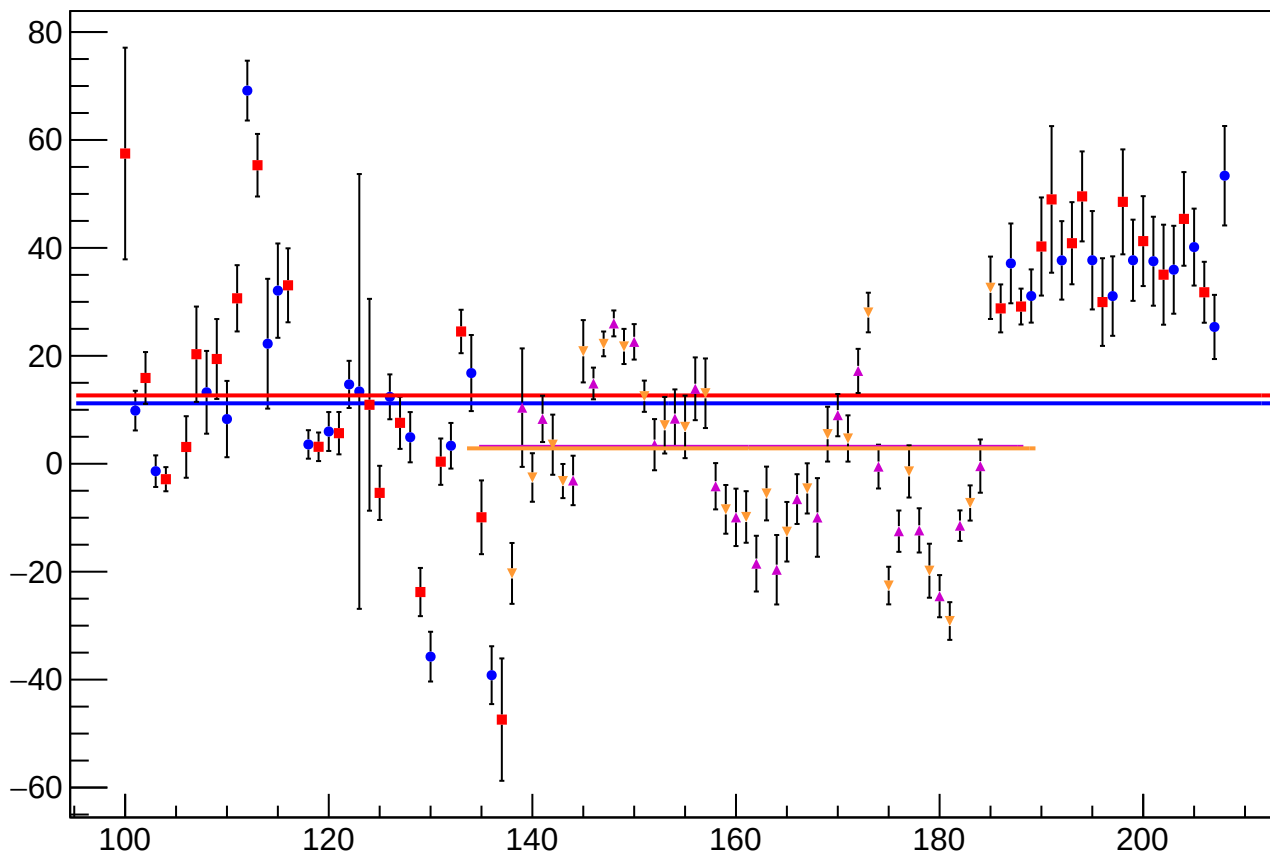
Right: -208.837+/-1.090 χ^2/NDF : 4195.3/22

In: -203.989+/-0.903 χ^2/NDF : 5994.1/33

Out: -207.103+/-0.859 χ^2/NDF : 9408.5/36

All: -205.624+/-0.622 χ^2/NDF : 15408.8/70

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.199 $\pm$ 0.985 χ^2 /NDF: 476.3/27

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 12.664 $\pm$ 0.928 χ^2 /NDF: 431.2/30

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

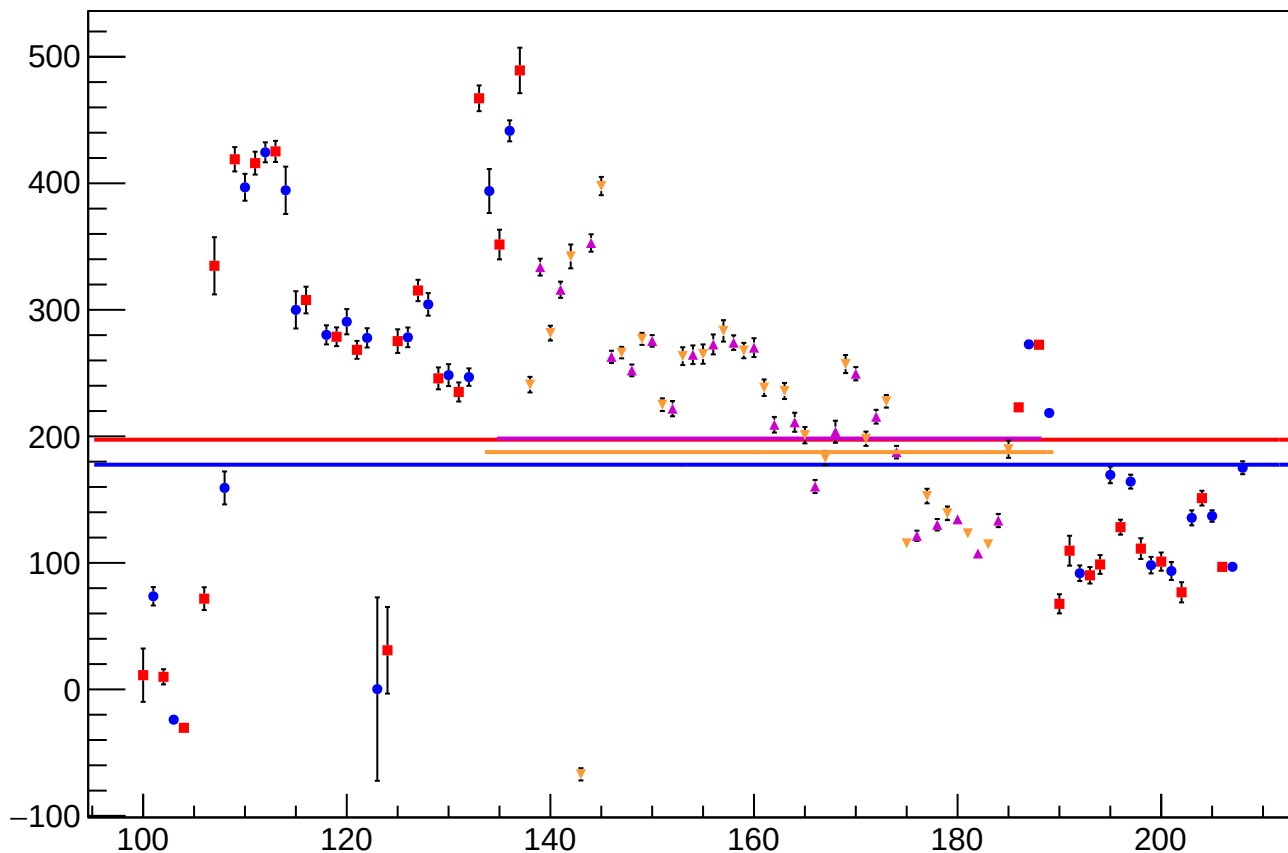
Right: 11.974 $\pm$ 0.675 χ^2 /NDF: 908.7/58

In: 6.610 $\pm$ 0.646 χ^2 /NDF: 834.2/50

Out: 7.152 $\pm$ 0.615 χ^2 /NDF: 913.8/55

All: 6.895 $\pm$ 0.445 χ^2 /NDF: 1748.4/106

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 177.596 $\pm$ 1.190 χ^2 /NDF: 8684.6/27

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 197.362 $\pm$ 1.046 χ^2 /NDF: 12130.9/30

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

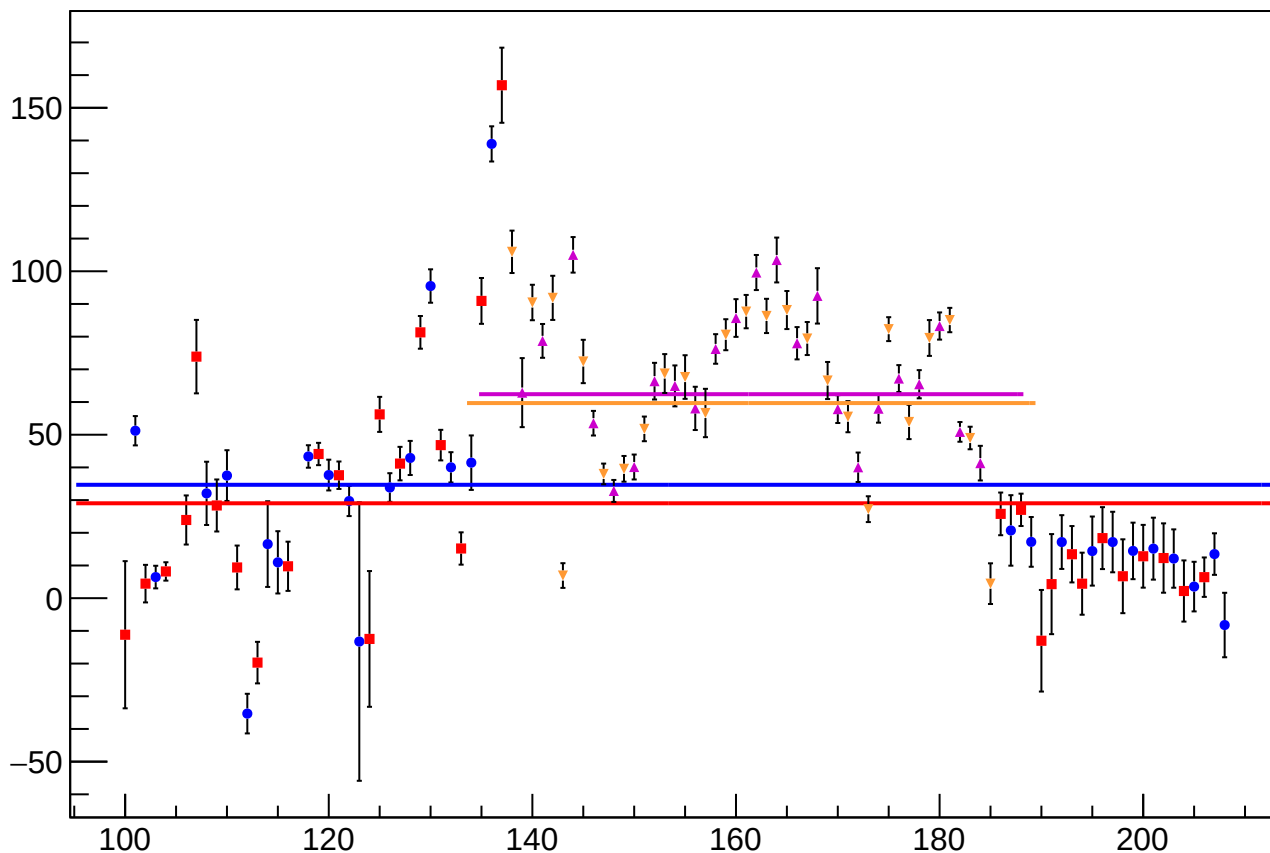
Right: 188.743 $\pm$ 0.786 χ^2 /NDF: 20971.1/58

In: 188.916 $\pm$ 0.800 χ^2 /NDF:13365.6/50

Out: 192.554 $\pm$ 0.747 χ^2 /NDF:19256.0/55

All: 190.861 $\pm$ 0.546 χ^2 /NDF: 32632.6/106

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 34.685 $\pm$ 1.150 χ^2 /NDF: 834.2/27

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 29.028 $\pm$ 1.109 χ^2 /NDF: 612.5/30

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

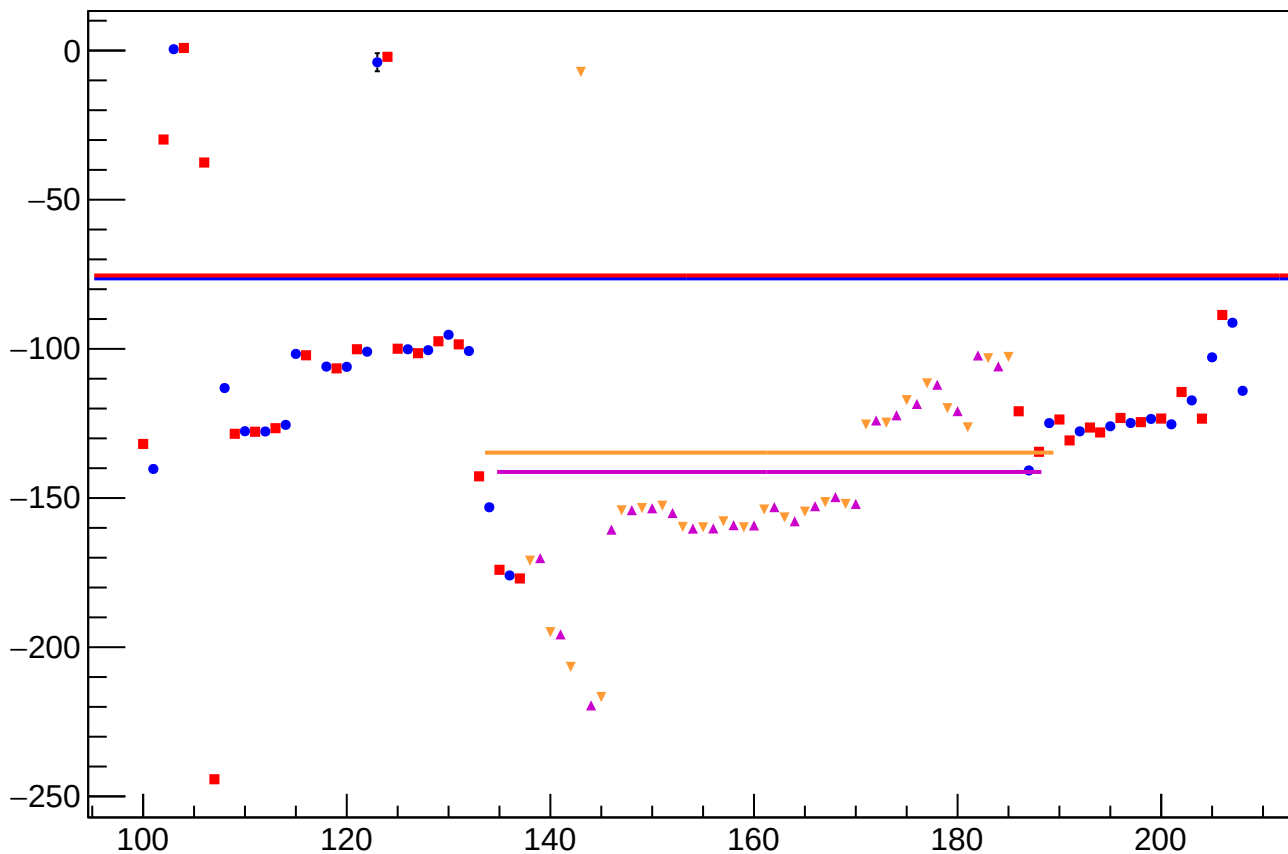
Right: 31.754 $\pm$ 0.799 χ^2 /NDF: 1459.1/58

In: 50.825 $\pm$ 0.743 χ^2 /NDF: 1578.5/50

Out: 46.861 $\pm$ 0.718 χ^2 /NDF: 1814.2/55

All: 48.773 $\pm$ 0.516 χ^2 /NDF: 3407.4/106

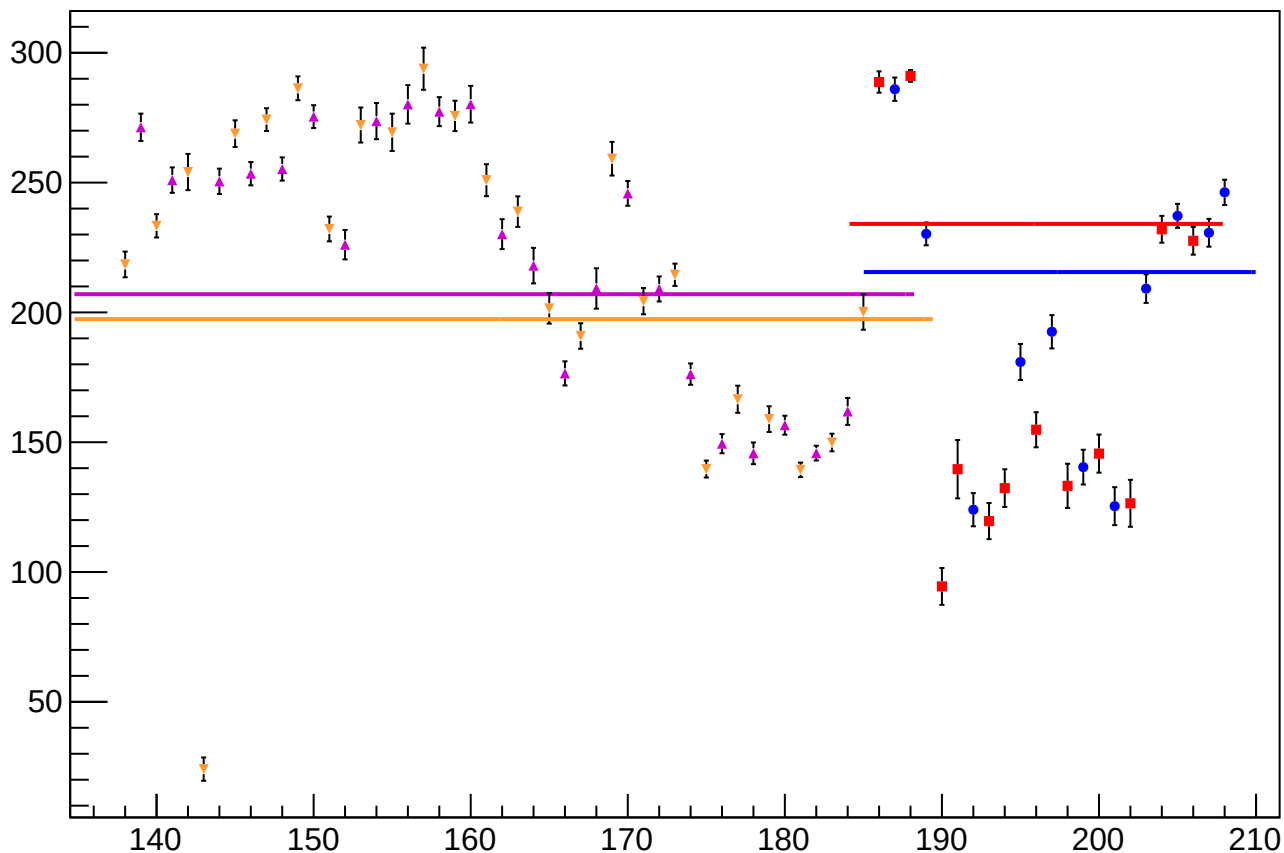
reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -76.374 ± 0.051 $\chi^2/\text{NDF}: 1412592.8/27$
 Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$
 Right Out: -75.405 ± 0.050 $\chi^2/\text{NDF}: 1395320.3/30$
 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: -75.875 ± 0.036 $\chi^2/\text{NDF}: 2808096.8/58$
 In: -112.861 ± 0.034 $\chi^2/\text{NDF}: 2657918.4/50$
 Out: -108.434 ± 0.033 $\chi^2/\text{NDF}: 2989905.3/55$
 All: -110.597 ± 0.024 $\chi^2/\text{NDF}: 5656512.8/100$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 215.540 ± 1.647 χ^2/NDF : 848.1/10

Left Out: 197.408 ± 0.963 χ^2/NDF : 4384.2/24

Right Out: 234.097 ± 1.478 χ^2/NDF : 2293.7/11

Left In: 207.014 ± 0.990 χ^2/NDF : 2611.5/22

Left: 202.077 ± 0.690 χ^2/NDF : 7044.1/47

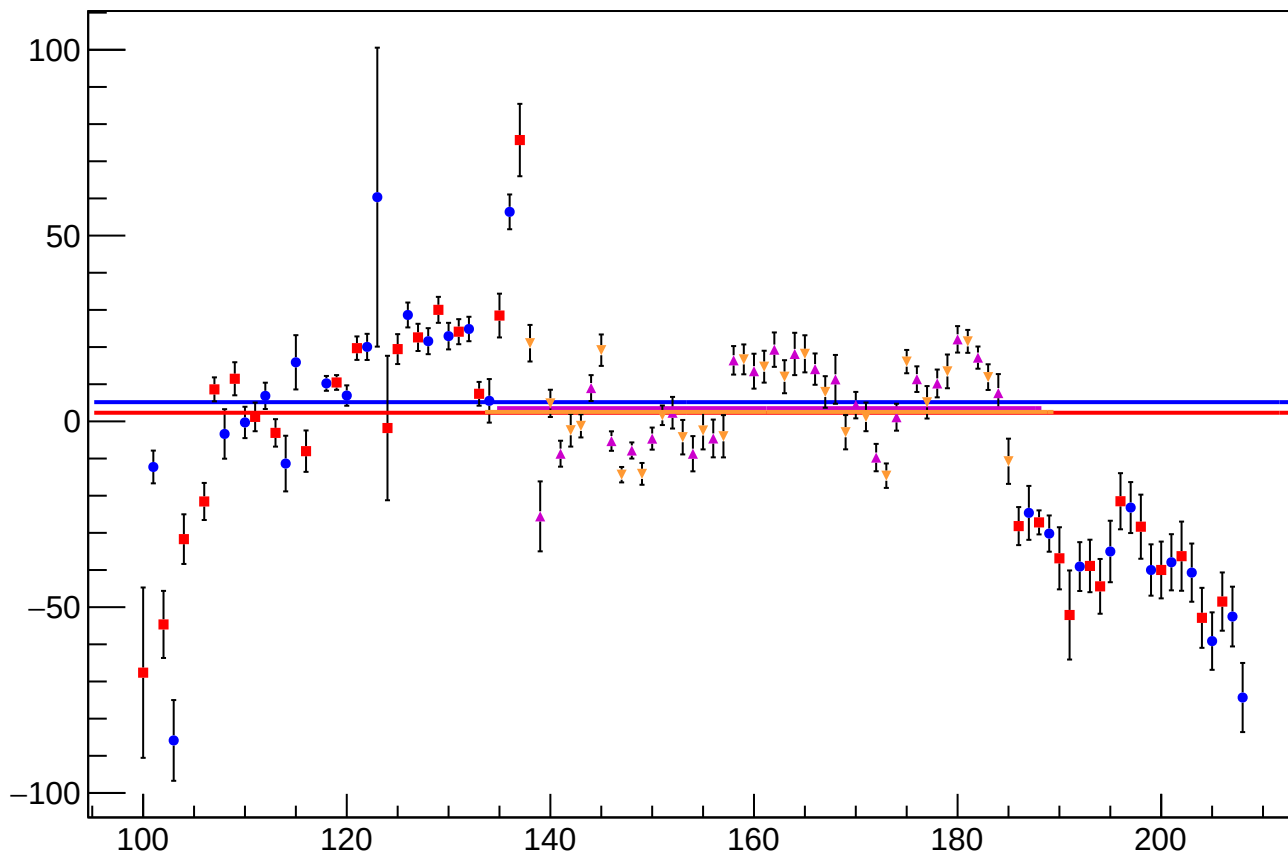
Right: 225.820 ± 1.100 χ^2/NDF : 3212.1/22

In: 209.278 ± 0.849 χ^2/NDF : 3479.3/33

Out: 208.343 ± 0.807 χ^2/NDF : 7110.6/36

All: 208.787 ± 0.585 χ^2/NDF : 10590.6/70

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.175 ± 0.859 $\chi^2/\text{NDF}: 833.1/27$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 2.322 ± 0.822 $\chi^2/\text{NDF}: 786.1/30$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

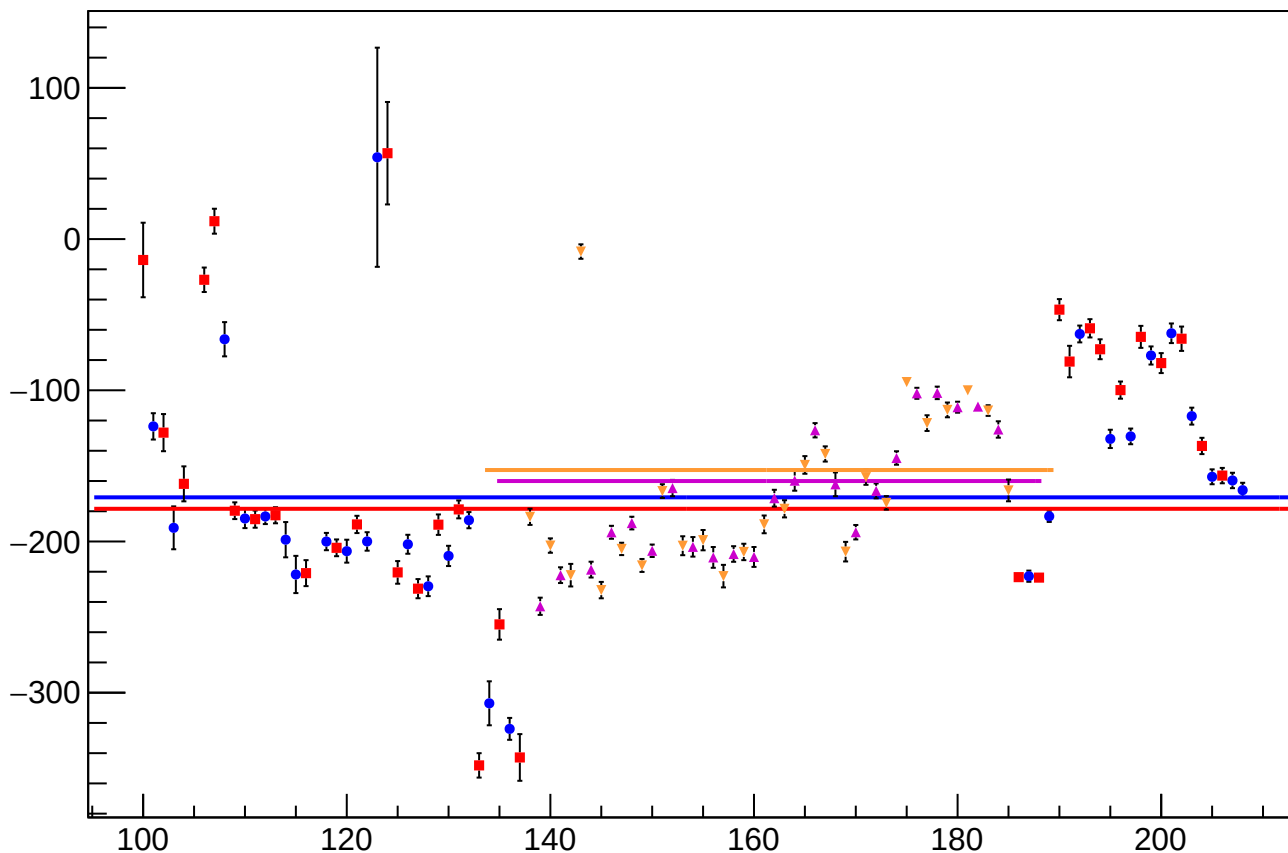
Right: 3.686 ± 0.594 $\chi^2/\text{NDF}: 1625.0/58$

In: 4.283 ± 0.575 $\chi^2/\text{NDF}: 1027.1/50$

Out: 2.446 ± 0.550 $\chi^2/\text{NDF}: 1061.6/55$

All: 3.325 ± 0.398 $\chi^2/\text{NDF}: 2094.0/106$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -170.802 ± 1.150 χ^2/NDF : 2231.9/27

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -178.379 ± 1.012 χ^2/NDF : 4578.3/30

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

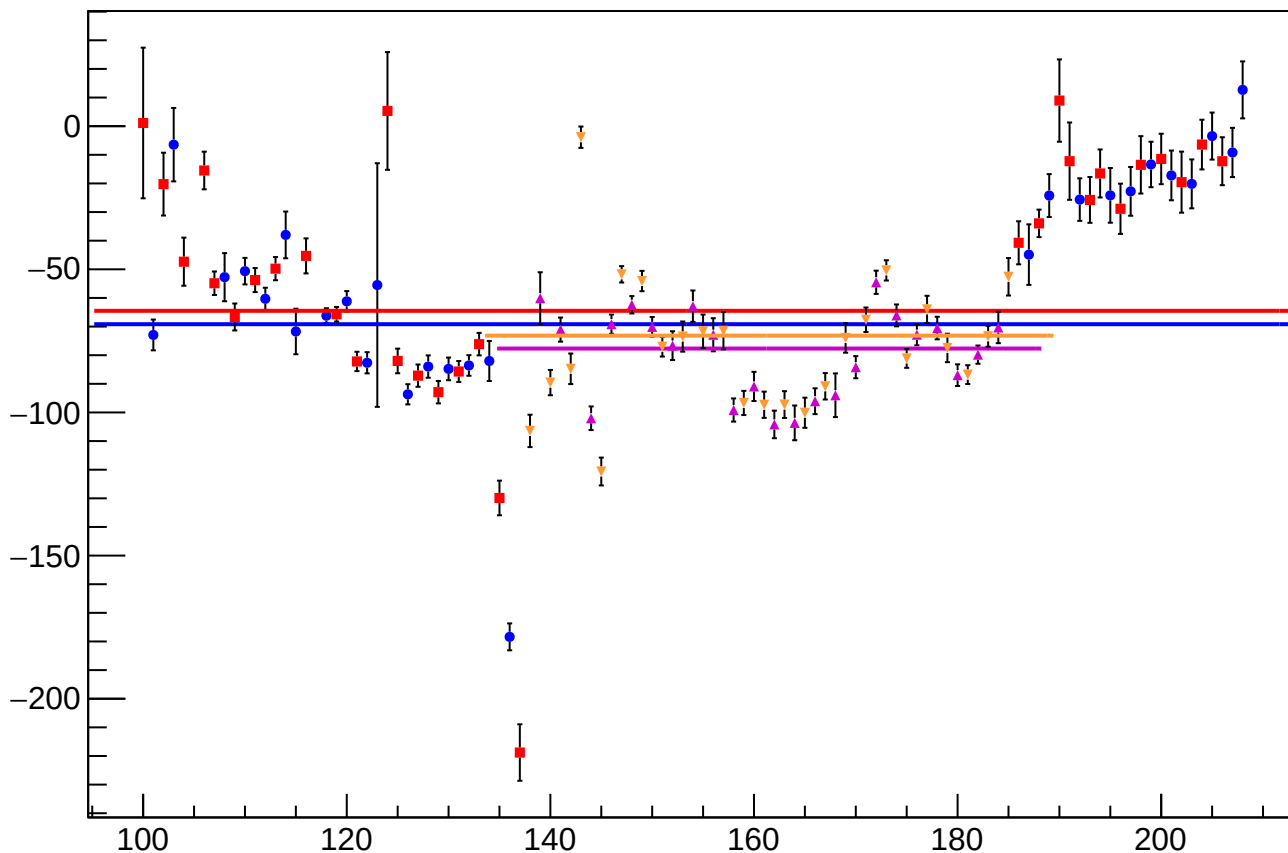
Right: -175.070 ± 0.760 χ^2/NDF : 6834.6/58

In: -164.604 ± 0.750 χ^2/NDF : 4306.8/50

Out: -164.970 ± 0.699 χ^2/NDF : 7991.5/55

All: -164.800 ± 0.511 χ^2/NDF : 12298.5/106

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.173 ± 0.999 $\chi^2/\text{NDF}: 1147.2/27$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -64.494 ± 0.965 $\chi^2/\text{NDF}: 991.4/30$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

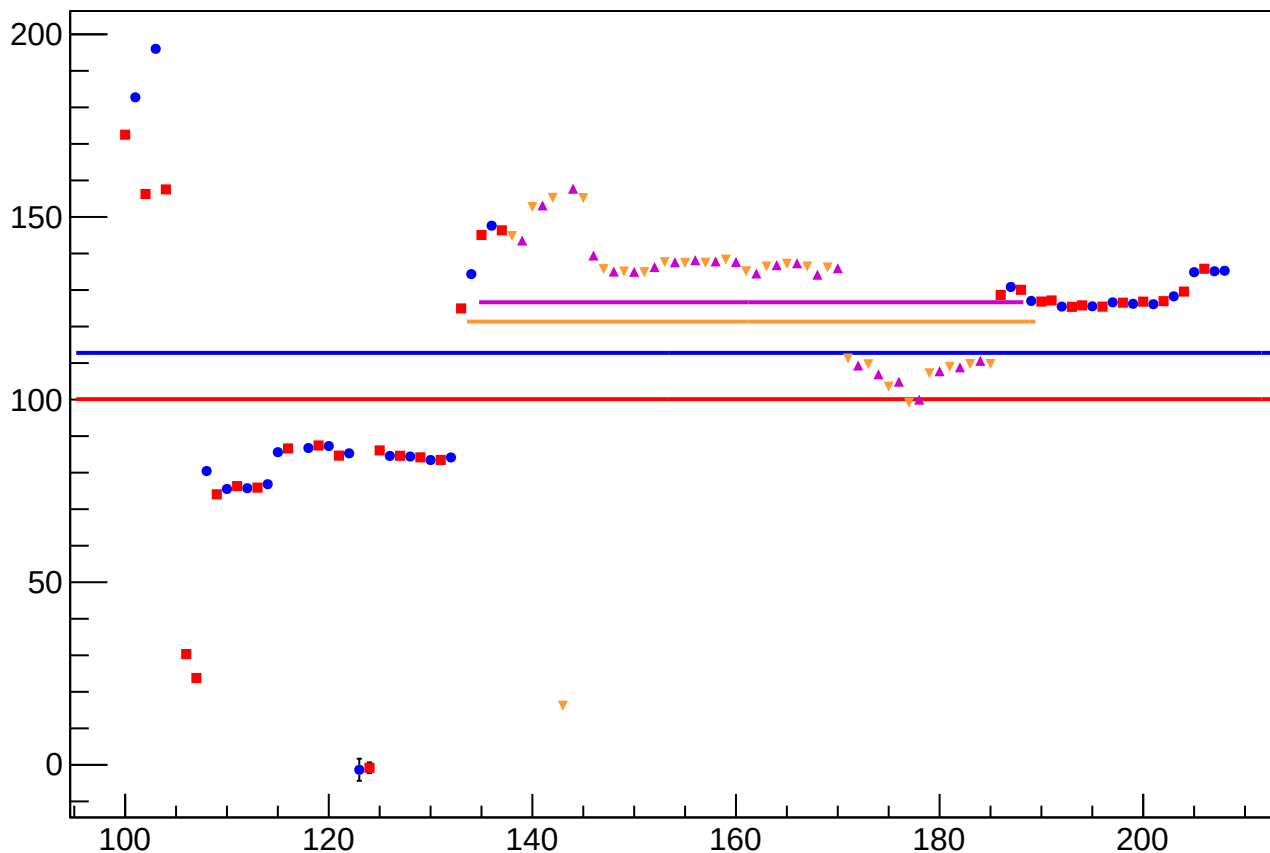
Right: -66.752 ± 0.694 $\chi^2/\text{NDF}: 2150.0/58$

In: -73.948 ± 0.662 $\chi^2/\text{NDF}: 1436.2/50$

Out: -69.370 ± 0.638 $\chi^2/\text{NDF}: 1825.4/55$

All: -71.578 ± 0.459 $\chi^2/\text{NDF}: 3286.4/106$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.794 $\pm$ 0.056 χ^2 /NDF: 318998.9/27

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 100.111 $\pm$ 0.051 χ^2 /NDF: 581070.5/30

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

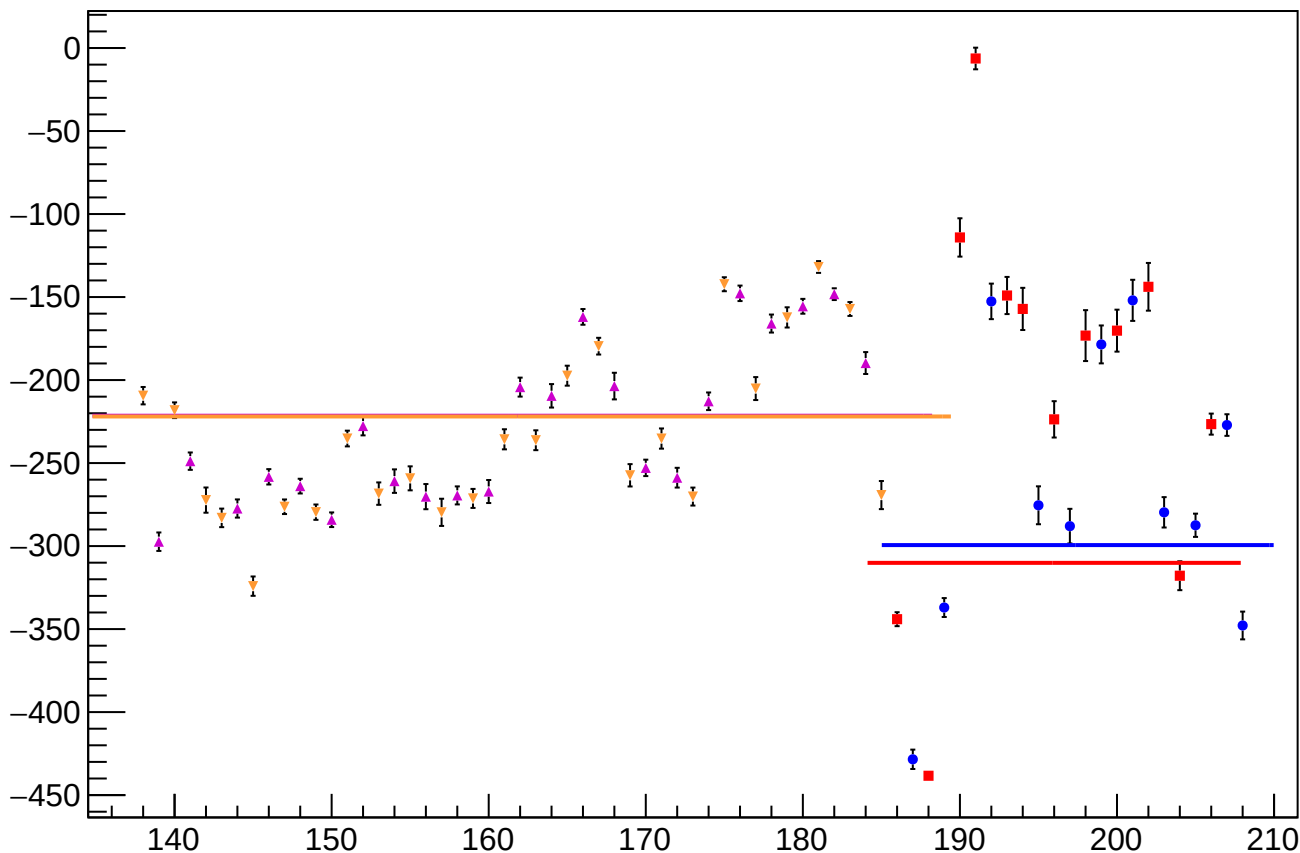
Right: 105.908 $\pm$ 0.038 χ^2 /NDF: 927985.8/58

In: 121.798 $\pm$ 0.033 χ^2 /NDF: 521925.8/50

Out: 113.251 $\pm$ 0.032 χ^2 /NDF: 1169047.2/55

All: 117.338 $\pm$ 0.023 χ^2 /NDF: 1725741.8/106

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -299.403 $\pm$ 2.423 χ^2 /NDF: 1145.3/10

Left Out: -221.934 $\pm$ 1.084 χ^2 /NDF:2578.4/24

Right Out: -310.107 $\pm$ 1.917 χ^2 /NDF: 5234.4/11

Left In: -221.483 $\pm$ 1.102 χ^2 /NDF:2149.8/22

Left: -221.712 $\pm$ 0.773 χ^2 /NDF: 4728.2/47

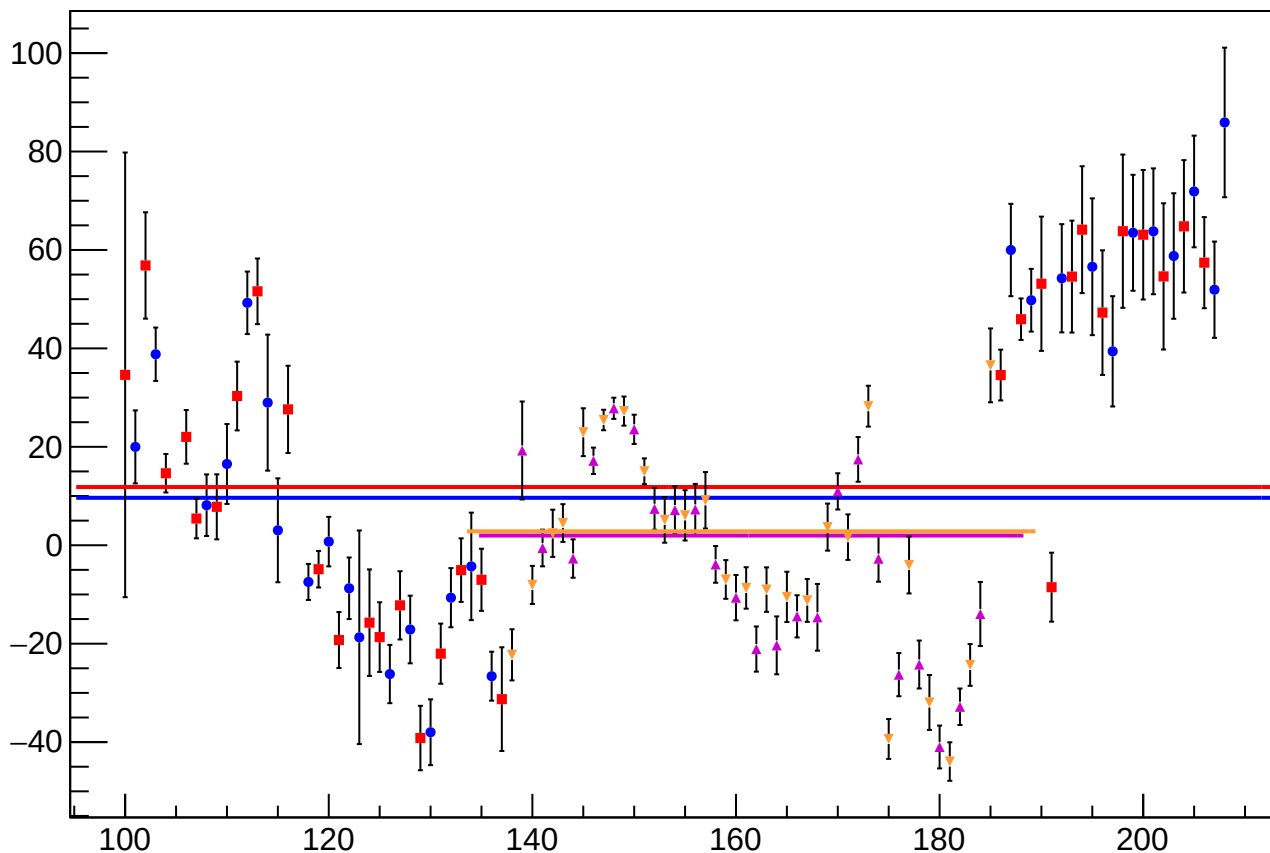
Right: -305.985 $\pm$ 1.504 χ^2 /NDF: 6391.7/22

In: -234.841 $\pm$ 1.003 χ^2 /NDF:4151.9/33

Out: -243.303 $\pm$ 0.944 χ^2 /NDF:9414.9/36

All: -239.330 $\pm$ 0.687 χ^2 /NDF: 13604.5/70

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.643 ± 1.385 $\chi^2/\text{NDF}: 507.8/27$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 11.835 ± 1.212 $\chi^2/\text{NDF}: 496.6/30$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

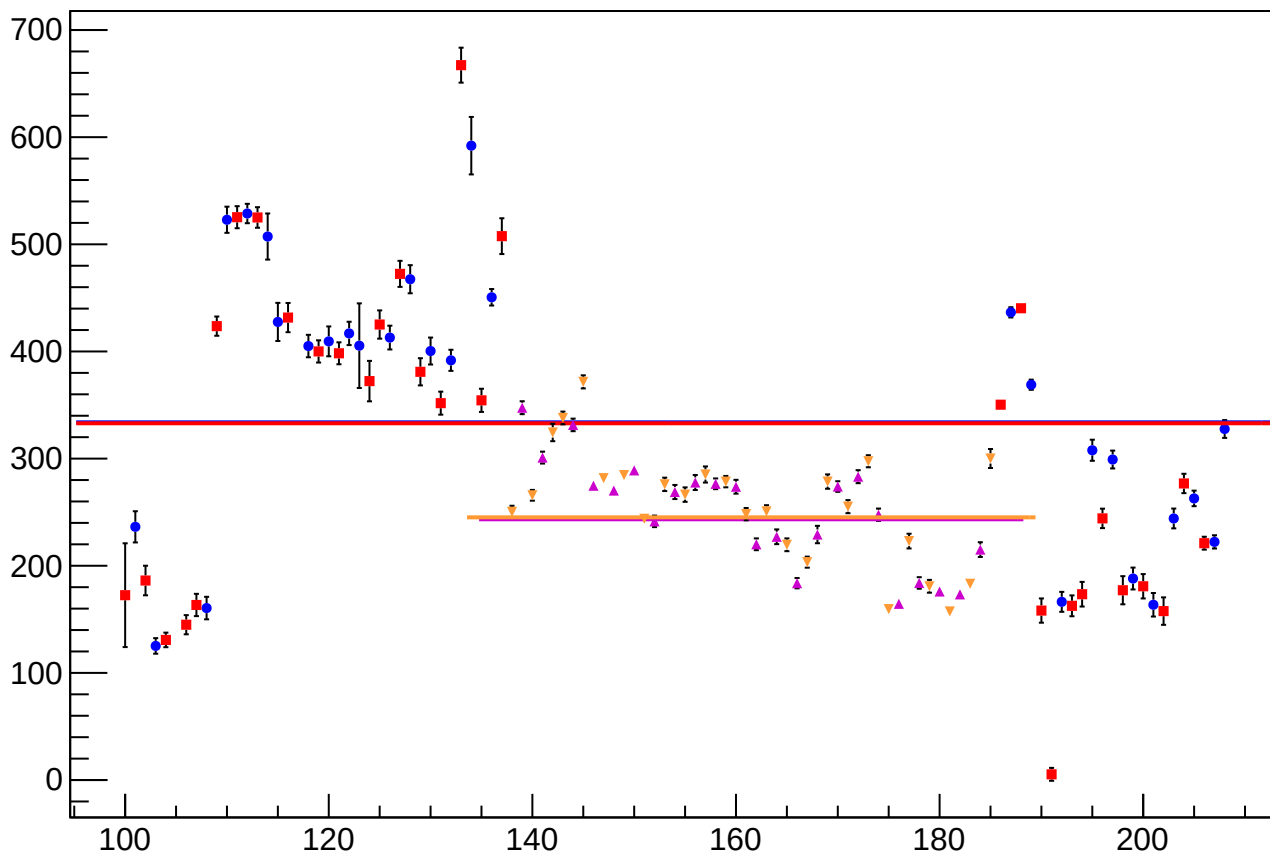
Right: 10.884 ± 0.912 $\chi^2/\text{NDF}: 1005.8/58$

In: 4.014 ± 0.715 $\chi^2/\text{NDF}: 1119.4/50$

Out: 5.597 ± 0.672 $\chi^2/\text{NDF}: 1221.7/55$

All: 4.855 ± 0.490 $\chi^2/\text{NDF}: 2343.7/106$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 333.840 $\pm$ 1.709 χ^2 /NDF: 4436.8/27

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 332.970 $\pm$ 1.369 χ^2 /NDF: 10067.3/30

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

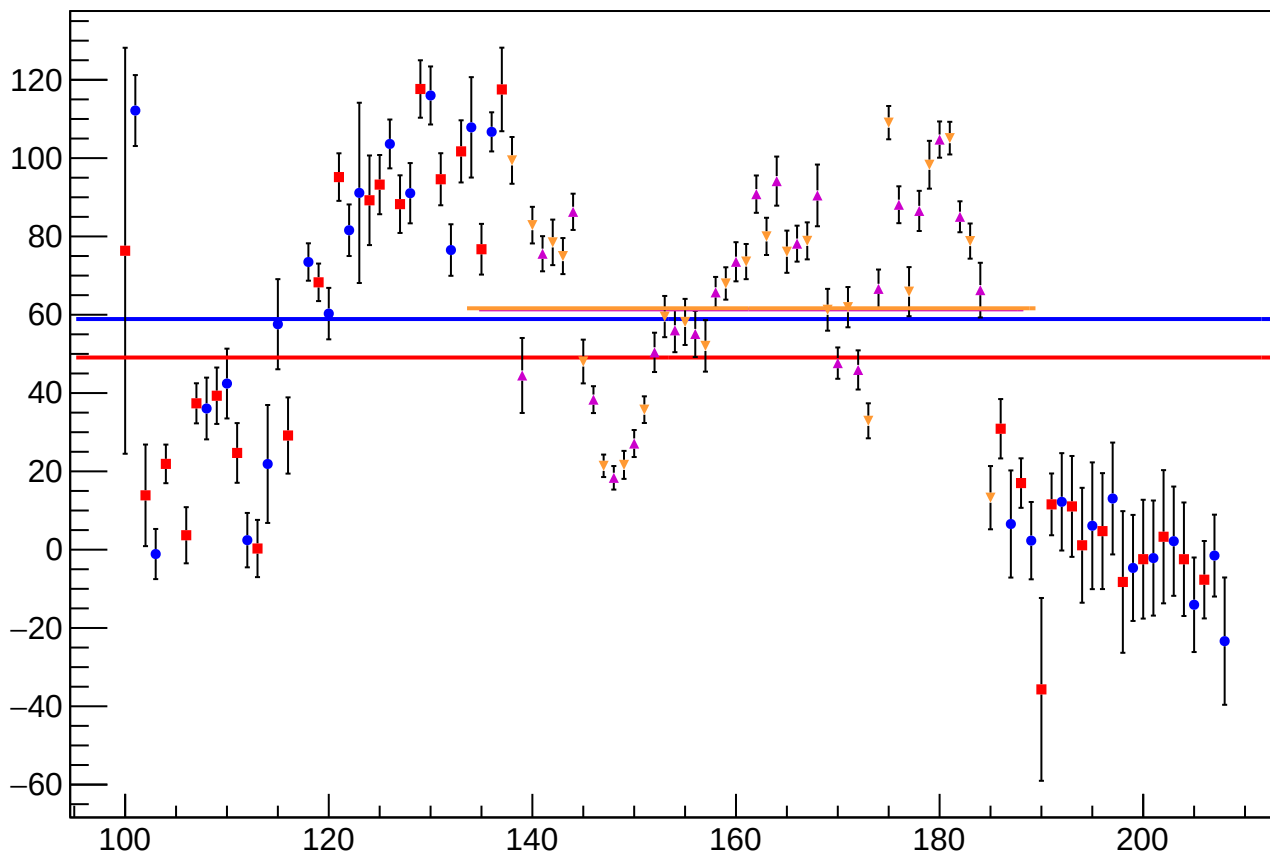
Right: 333.310 $\pm$ 1.068 χ^2 /NDF: 14504.2/58

In: 269.650 $\pm$ 0.921 χ^2 /NDF:8661.8/50

Out: 278.942 $\pm$ 0.849 χ^2 /NDF:15196.4/55

All: 274.675 $\pm$ 0.624 χ^2 /NDF: 23913.2/106

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 58.902 $\pm$ 1.610 χ^2 /NDF: 704.9/27

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 49.077 $\pm$ 1.449 χ^2 /NDF: 700.2/30

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

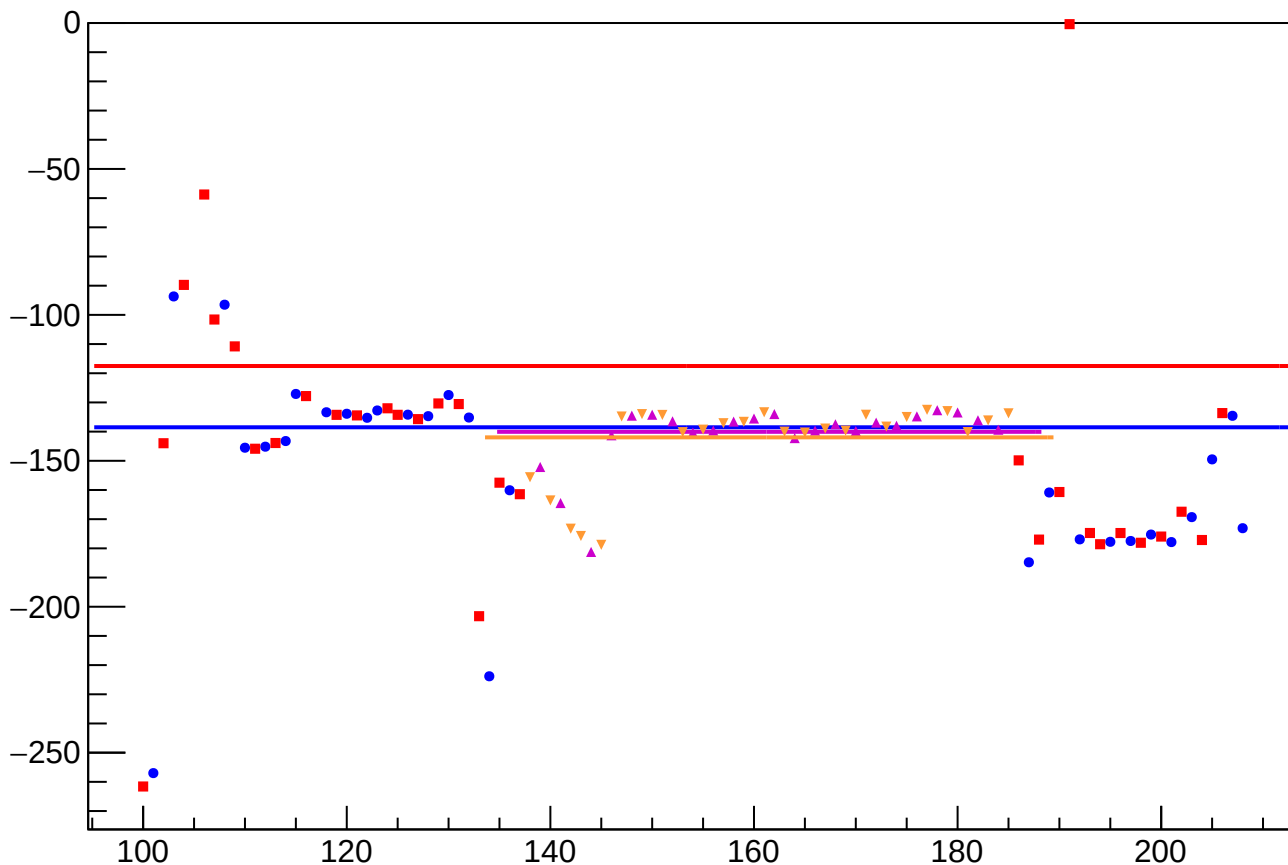
Right: 53.474 $\pm$ 1.077 χ^2 /NDF: 1425.7/58

In: 60.726 $\pm$ 0.825 χ^2 /NDF:1406.3/50

Out: 57.946 $\pm$ 0.786 χ^2 /NDF:1624.9/55

All: 59.269 $\pm$ 0.569 χ^2 /NDF: 3037.1/106

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.516 ± 0.076 $\chi^2/\text{NDF}: 235858.2/27$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -117.522 ± 0.067 $\chi^2/\text{NDF}: 608697.7/30$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

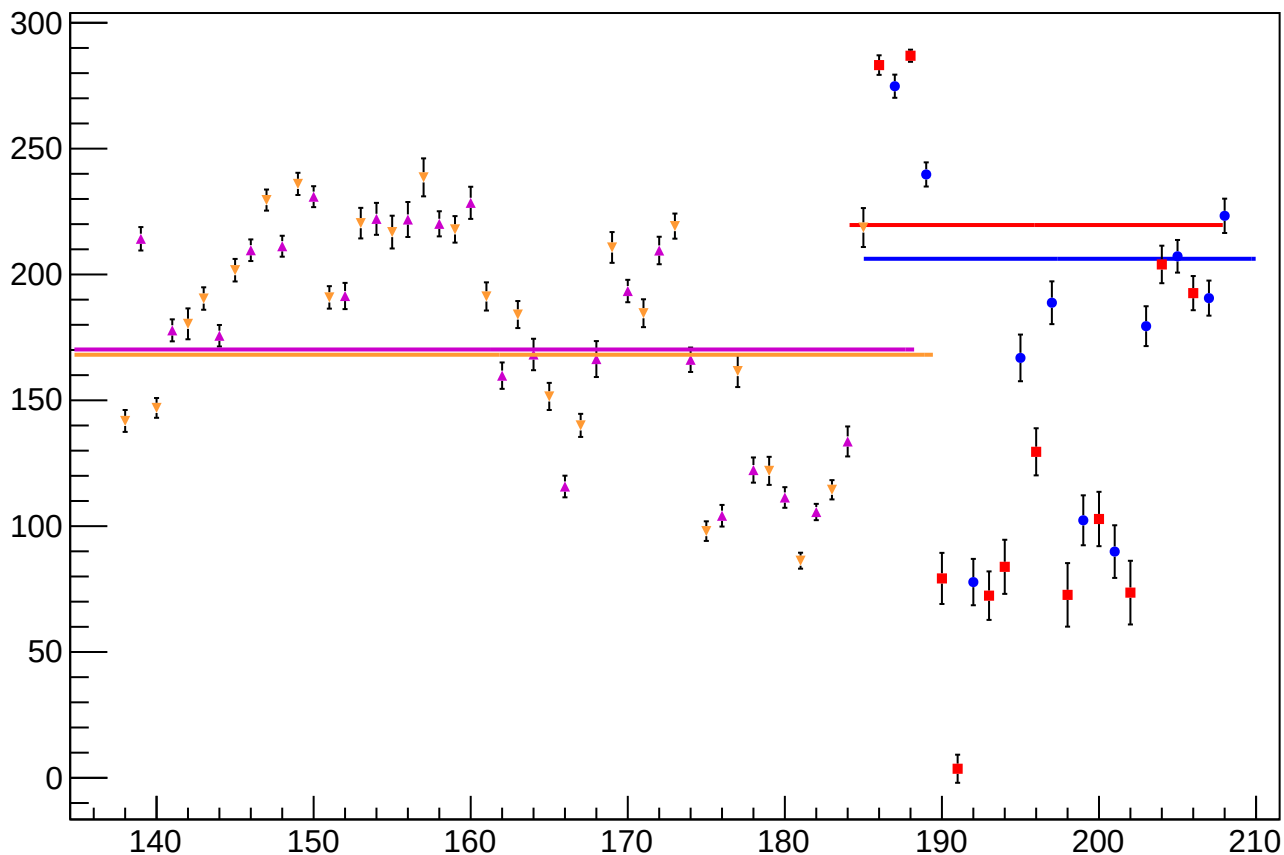
Right: -126.767 ± 0.050 $\chi^2/\text{NDF}: 887208.9/58$

In: -139.666 ± 0.039 $\chi^2/\text{NDF}: 284197.5/50$

Out: -134.509 ± 0.037 $\chi^2/\text{NDF}: 780215.3/55$

All: -136.988 ± 0.027 $\chi^2/\text{NDF}: 1073617.2/10$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 206.235 $\pm$ 2.089 χ^2 /NDF: 743.8/10

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 219.647 $\pm$ 1.640 χ^2 /NDF: 3626.0/11

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

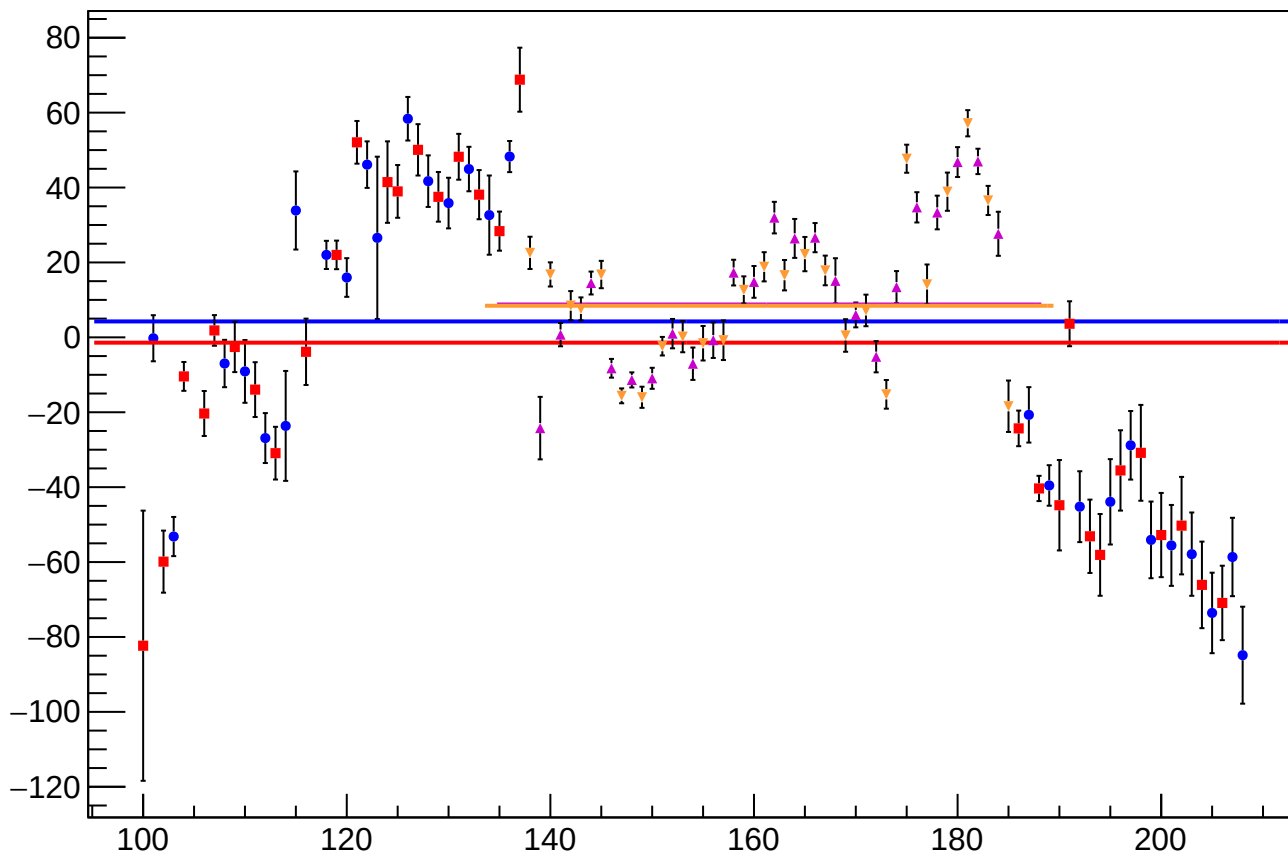
Right: 214.533 $\pm$ 1.290 χ^2 /NDF: 4395.3/22

In: 176.864 $\pm$ 0.899 χ^2 /NDF:3010.7/33

Out: 181.467 $\pm$ 0.835 χ^2 /NDF:6826.3/36

All: 179.334 $\pm$ 0.612 χ^2 /NDF: 9851.1/70

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.250 $\pm$ 1.318 χ^2 /NDF: 903.9/27

Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24

Right Out: -1.420 $\pm$ 1.156 χ^2 /NDF: 914.1/30

Left In: 8.769 $\pm$ 0.758 χ^2 /NDF: 626.8/22

Left: 8.596 $\pm$ 0.525 χ^2 /NDF: 1379.0/47

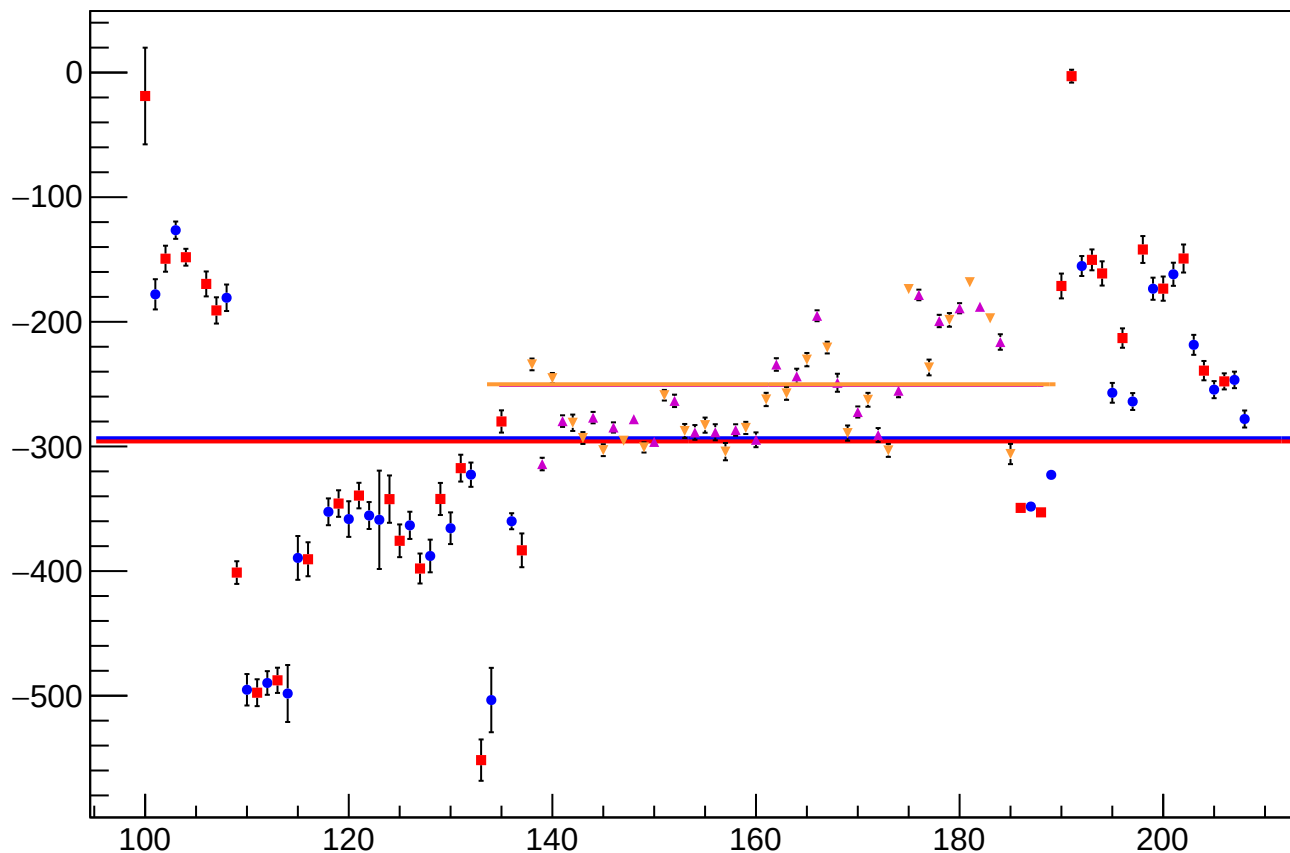
Right: 1.046 $\pm$ 0.869 χ^2 /NDF: 1828.5/58

In: 7.645 $\pm$ 0.657 χ^2 /NDF: 1539.6/50

Out: 5.636 $\pm$ 0.616 χ^2 /NDF: 1718.2/55

All: 6.576 $\pm$ 0.449 χ^2 /NDF: 3262.8/106

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.422+/-1.524 χ^2/NDF : 3131.1/27

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -295.982+/-1.209 χ^2/NDF : 8109.9/30

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

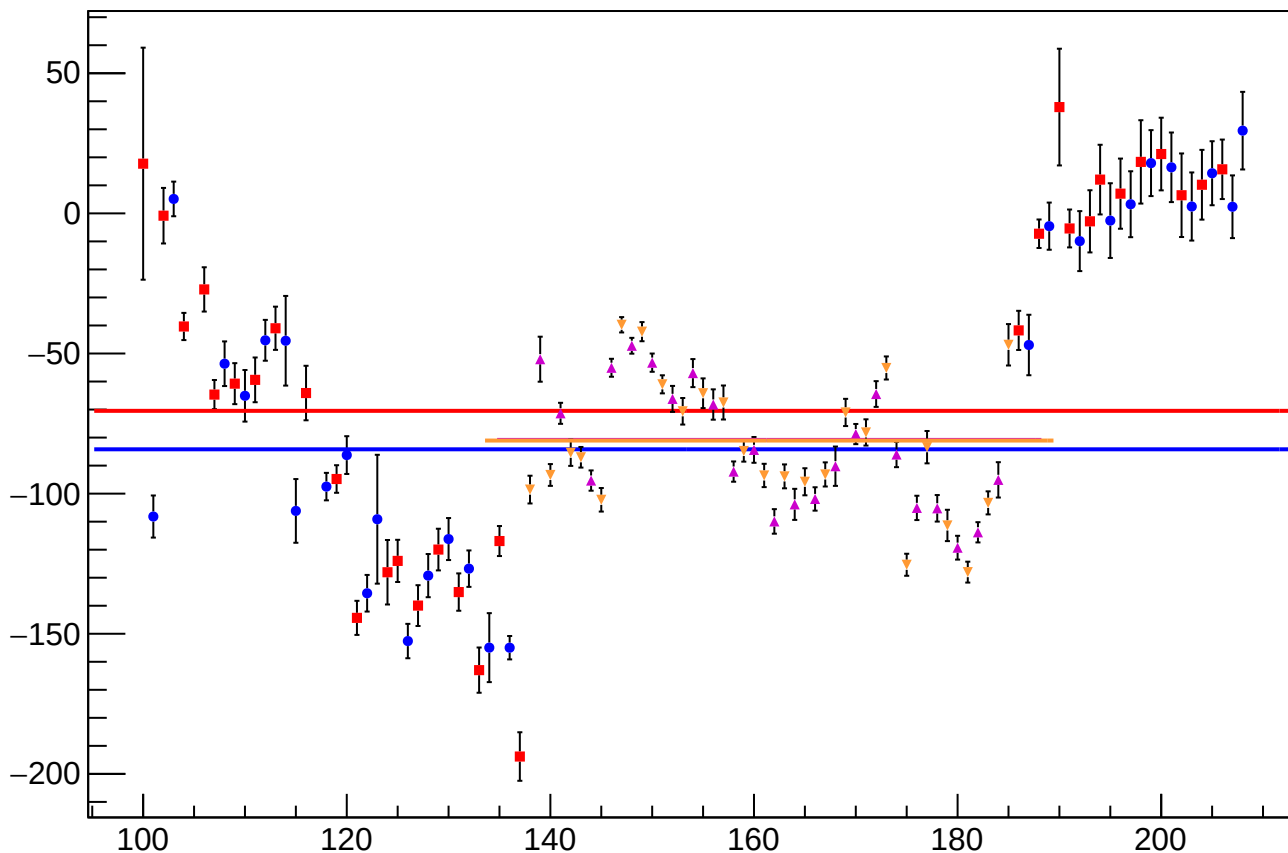
Right: -294.994+/-0.947 χ^2/NDF : 11242.7/58

In: -263.331+/-0.830 χ^2/NDF : 5622.4/50

Out: -268.138+/-0.758 χ^2/NDF : 11231.0/55

All: -265.955+/-0.560 χ^2/NDF : 16871.7/106

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.185 ± 1.533 $\chi^2/\text{NDF}: 1523.1/27$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -70.459 ± 1.388 $\chi^2/\text{NDF}: 1660.0/30$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

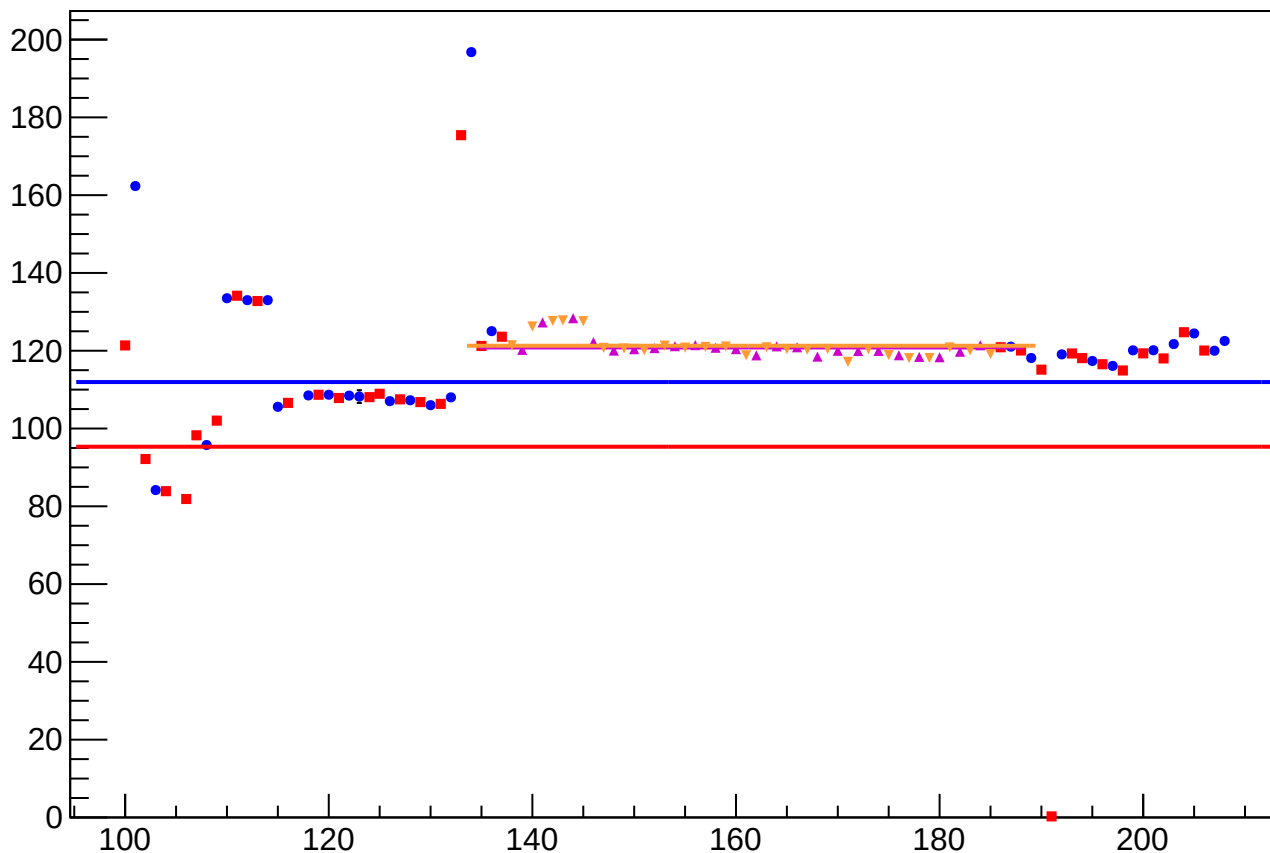
Right: -76.641 ± 1.029 $\chi^2/\text{NDF}: 3227.2/58$

In: -81.652 ± 0.758 $\chi^2/\text{NDF}: 2219.9/50$

Out: -78.200 ± 0.720 $\chi^2/\text{NDF}: 2615.6/55$

All: -79.839 ± 0.522 $\chi^2/\text{NDF}: 4846.4/106$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.948 $\pm$ 0.071 χ^2 /NDF: 78937.9/27

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 95.320 $\pm$ 0.062 χ^2 /NDF: 363471.7/30

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

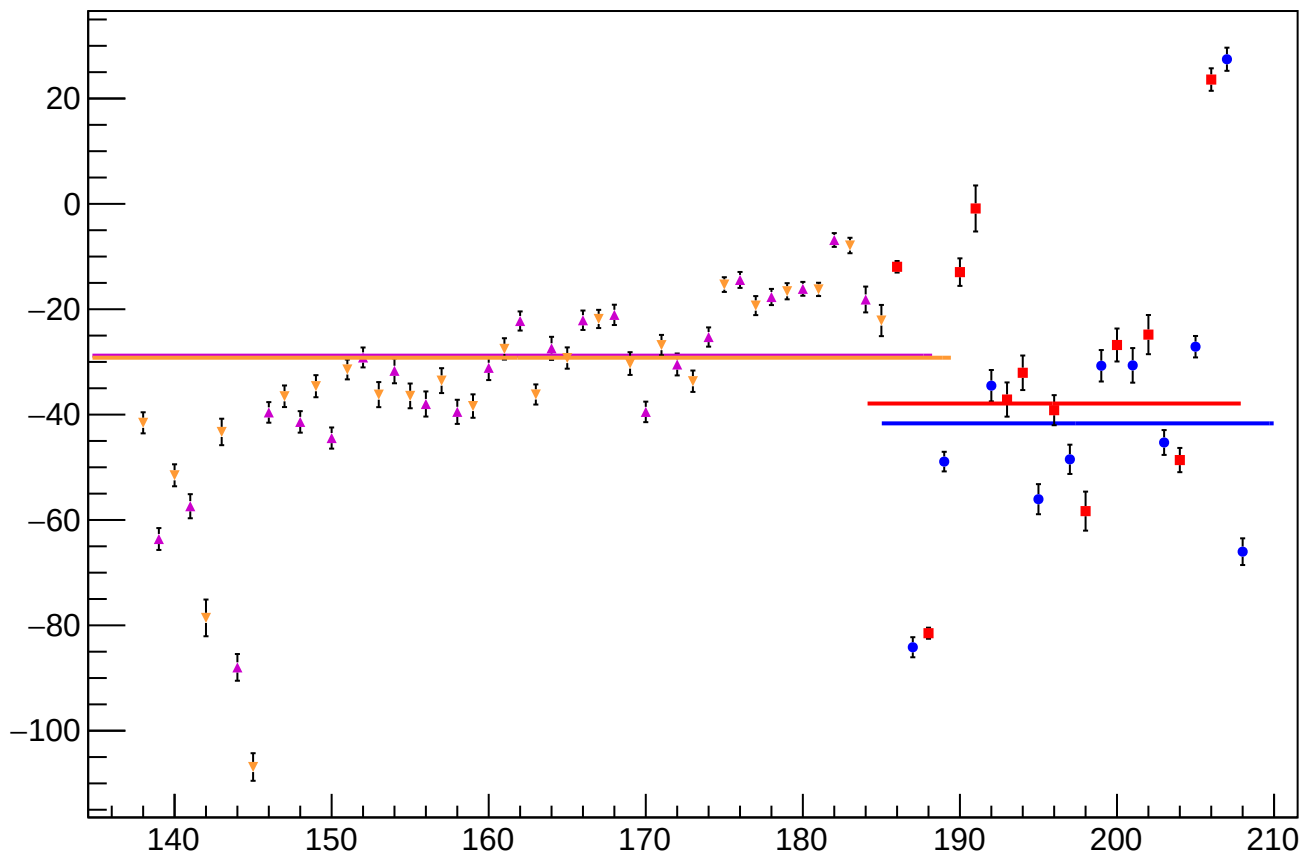
Right: 102.624 $\pm$ 0.047 χ^2 /NDF: 473534.1/58

In: 118.624 $\pm$ 0.035 χ^2 /NDF: 94225.3/50

Out: 113.705 $\pm$ 0.034 χ^2 /NDF: 490744.7/55

All: 116.057 $\pm$ 0.024 χ^2 /NDF: 595127.4/106

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.663 ± 0.722 $\chi^2/\text{NDF}: 1709.8/10$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -37.895 ± 0.587 $\chi^2/\text{NDF}: 3356.1/11$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

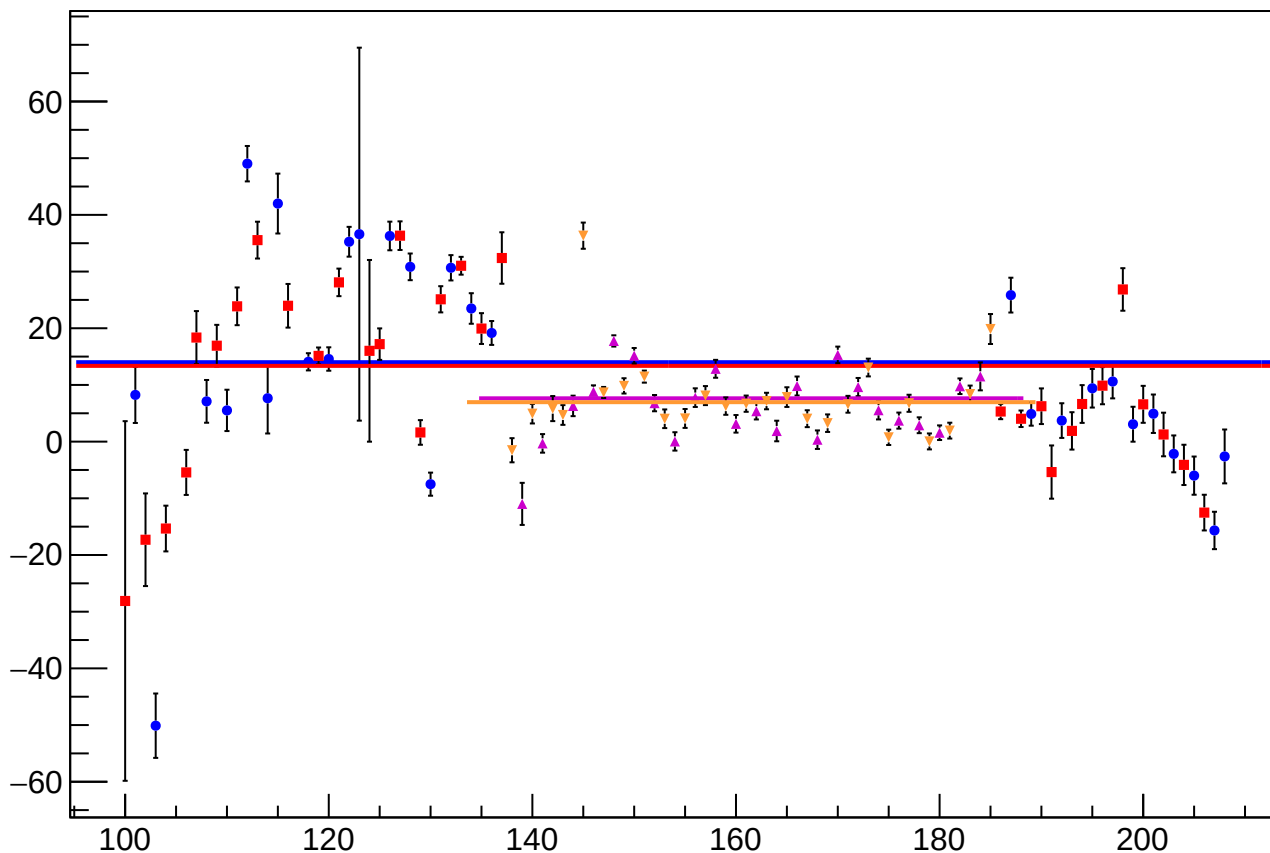
Right: -39.395 ± 0.455 $\chi^2/\text{NDF}: 5082.3/22$

In: -31.775 ± 0.347 $\chi^2/\text{NDF}: 3717.5/33$

Out: -31.849 ± 0.324 $\chi^2/\text{NDF}: 5390.1/36$

All: -31.814 ± 0.237 $\chi^2/\text{NDF}: 9107.7/70$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.012 ± 0.535 χ^2/NDF : 894.7/27

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 13.363 ± 0.484 χ^2/NDF : 716.9/30

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

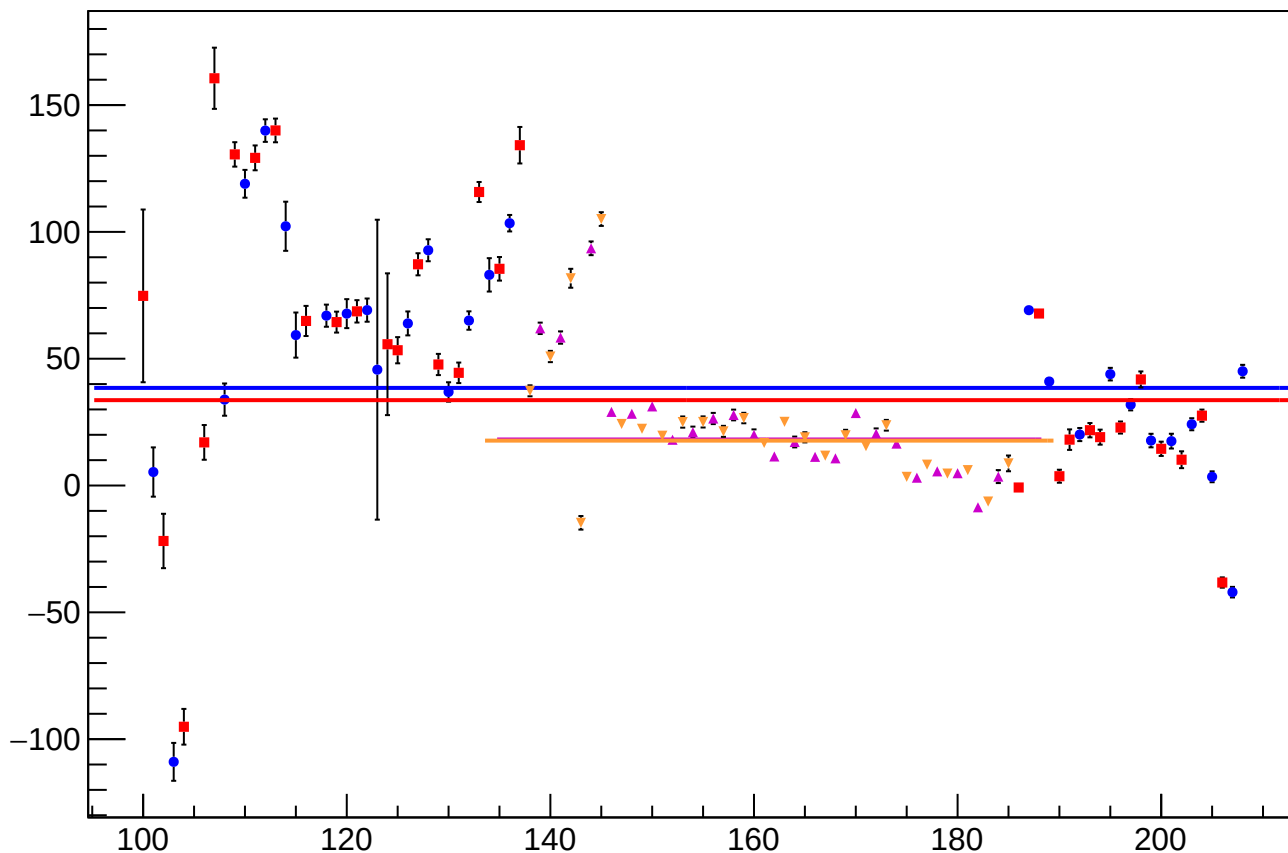
Right: 13.655 ± 0.359 χ^2/NDF : 1612.4/58

In: 9.269 ± 0.270 χ^2/NDF : 1338.1/50

Out: 8.764 ± 0.257 χ^2/NDF : 1164.1/55

All: 9.003 ± 0.186 χ^2/NDF : 2504.0/106

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 38.489 $\pm$ 0.576 χ^2 /NDF: 4341.4/27

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.658 $\pm$ 0.460 χ^2 /NDF: 7610.6/30

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

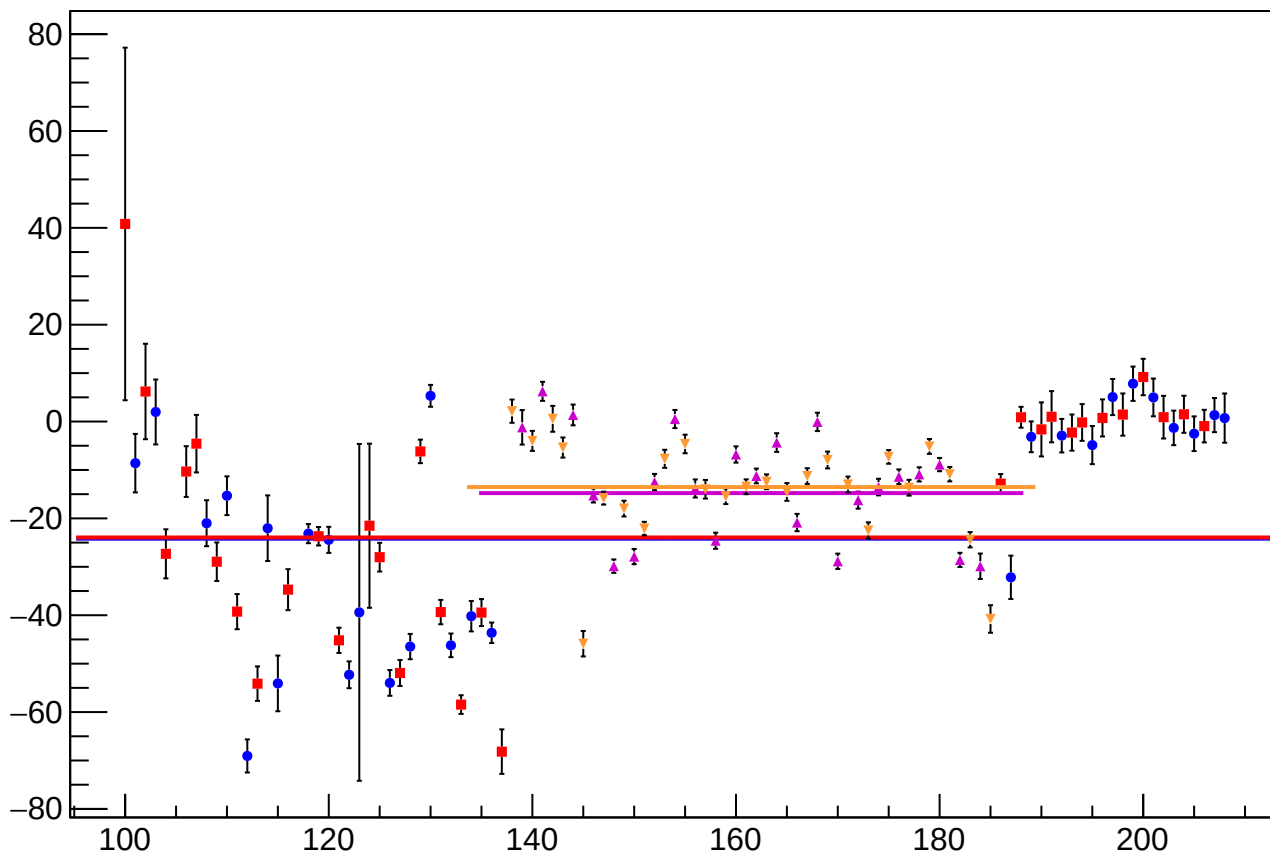
Right: 35.537 $\pm$ 0.359 χ^2 /NDF: 11994.9/58

In: 24.597 $\pm$ 0.324 χ^2 /NDF:7531.5/50

Out: 24.322 $\pm$ 0.296 χ^2 /NDF:10746.8/55

All: 24.447 $\pm$ 0.219 χ^2 /NDF: 18278.7/106

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.186 ± 0.622 $\chi^2/\text{NDF}: 1353.6/27$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -23.945 ± 0.585 $\chi^2/\text{NDF}: 1392.1/30$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

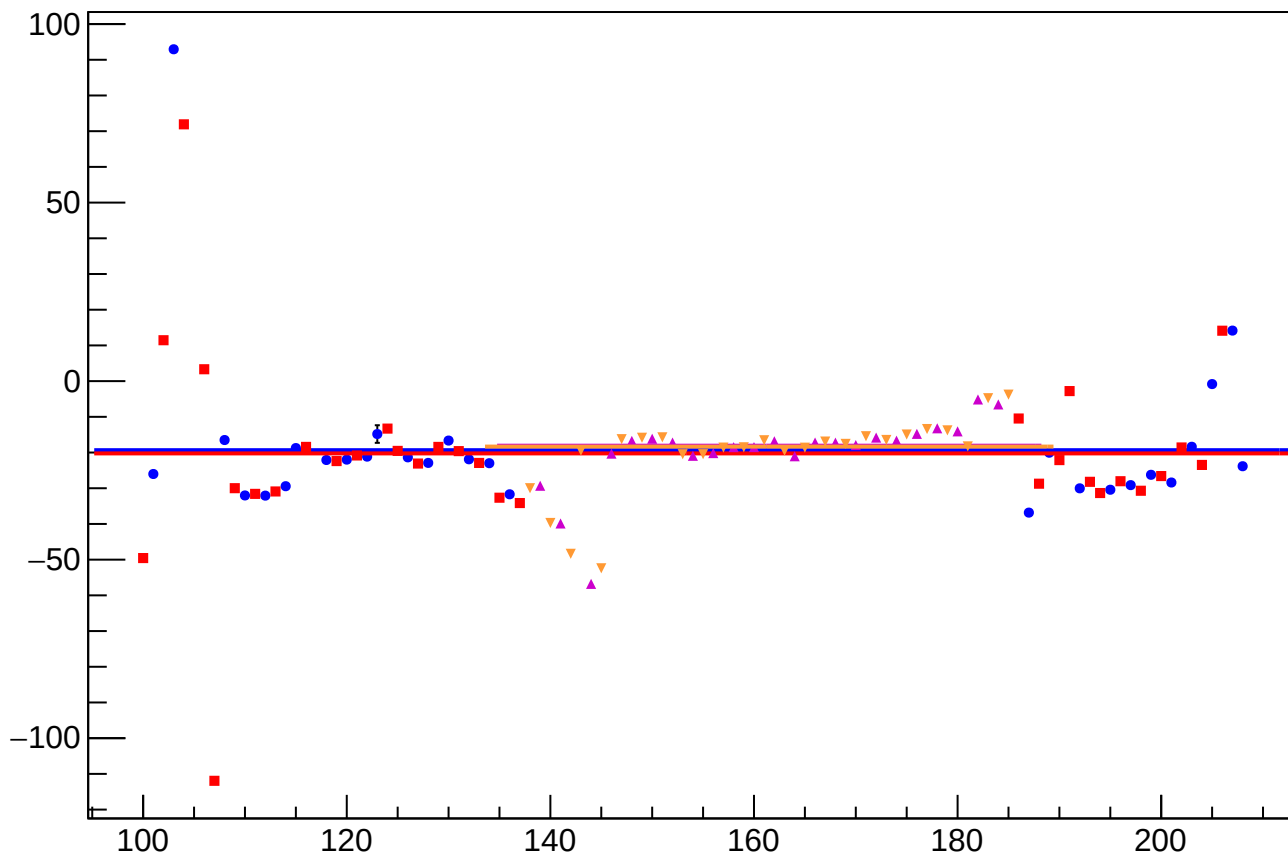
Right: -24.058 ± 0.426 $\chi^2/\text{NDF}: 2745.8/58$

In: -17.082 ± 0.308 $\chi^2/\text{NDF}: 2364.5/50$

Out: -16.205 ± 0.297 $\chi^2/\text{NDF}: 2200.2/55$

All: -16.627 ± 0.214 $\chi^2/\text{NDF}: 4568.9/106$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.340 $\pm$ 0.030 χ^2/NDF : 595233.2/27

Left Out: -18.334 $\pm$ 0.016 χ^2/NDF : 284152.1/24

Right Out: -20.244 $\pm$ 0.028 χ^2/NDF : 561374.7/30

Left In: -18.083 $\pm$ 0.016 χ^2/NDF : 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2/NDF : 526224.9/47

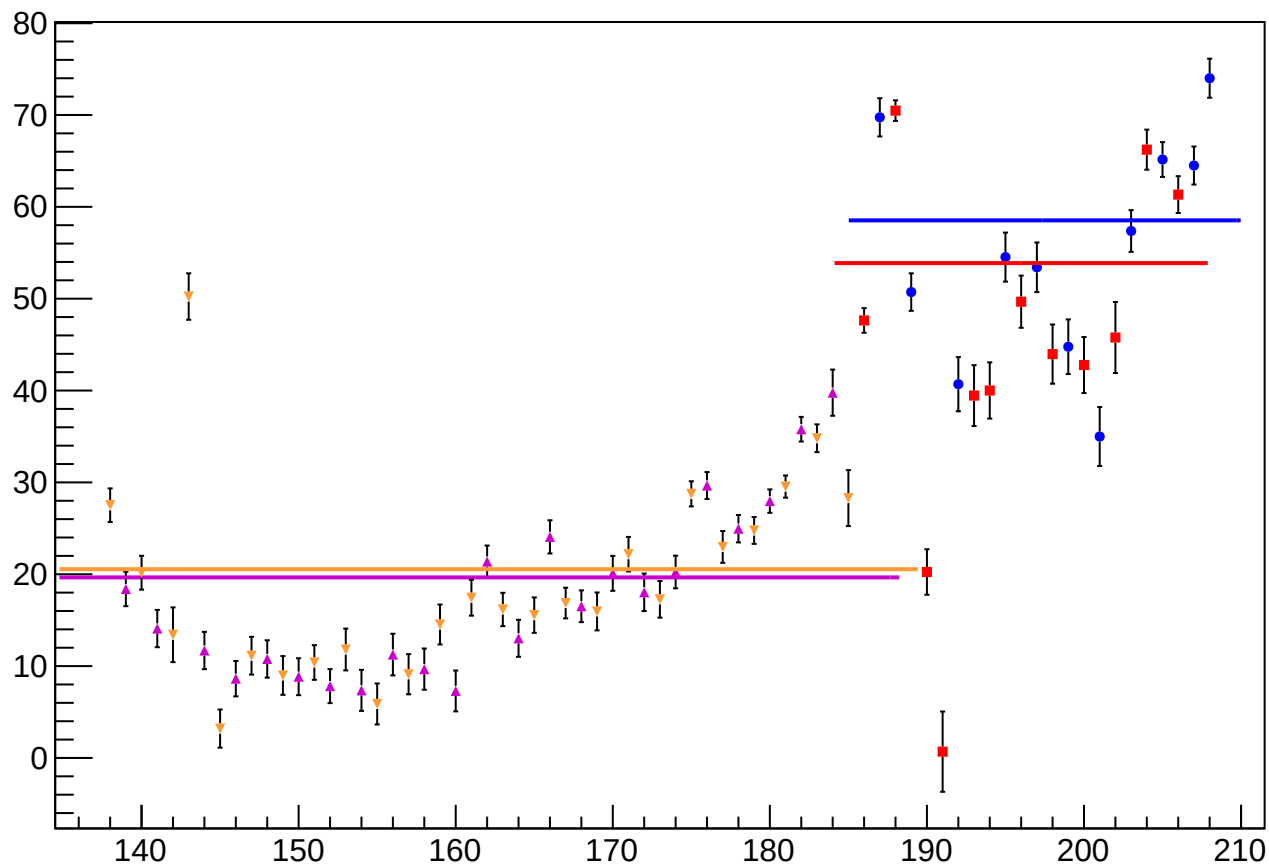
Right: -19.811 $\pm$ 0.021 χ^2/NDF : 1157092.1/58

In: -18.369 $\pm$ 0.014 χ^2/NDF : 838570.3/50

Out: -18.787 $\pm$ 0.014 χ^2/NDF : 848972.2/55

All: -18.582 $\pm$ 0.010 χ^2/NDF : 1687988.4/106

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 58.526 $\pm$ 0.707 χ^2 /NDF: 235.0/10

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 53.876 $\pm$ 0.618 χ^2 /NDF: 688.5/11

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

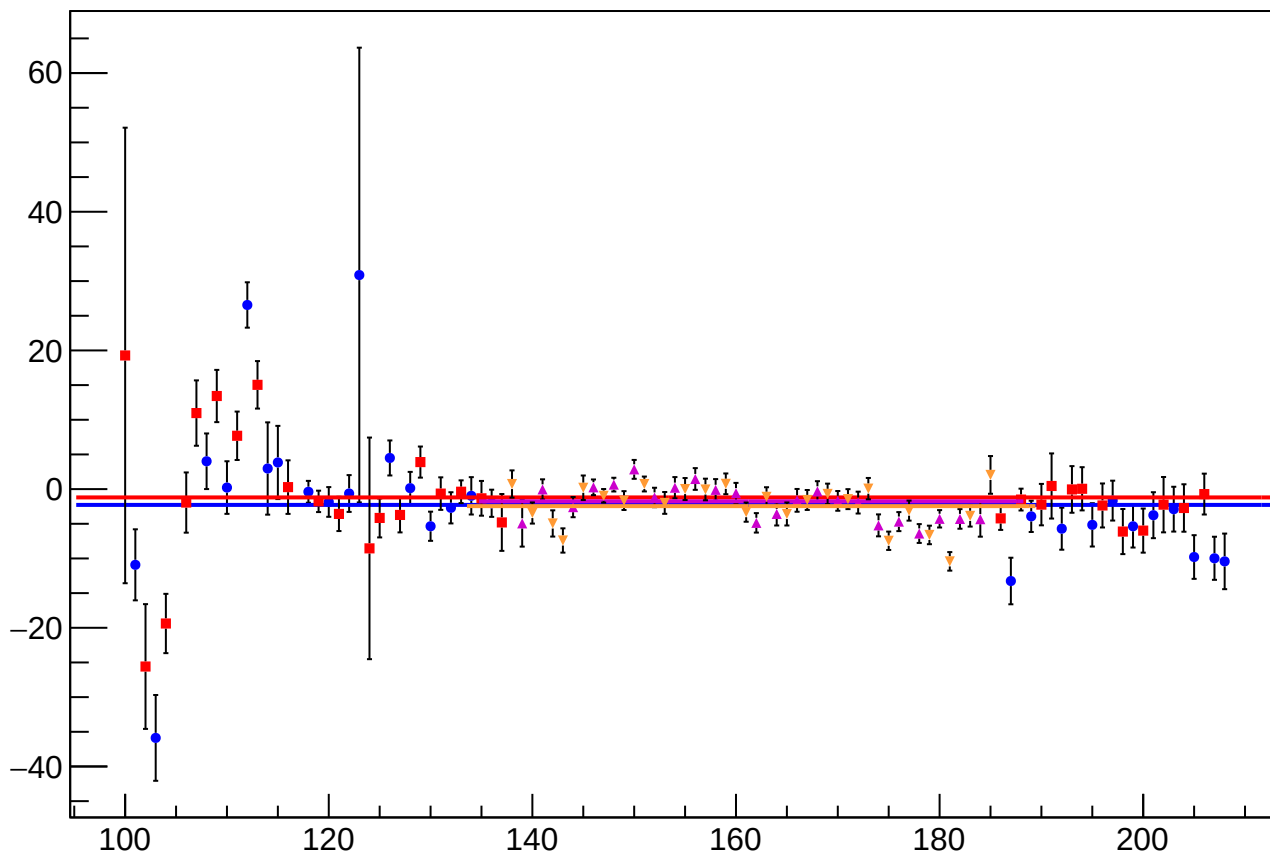
Right: 55.890 $\pm$ 0.465 χ^2 /NDF: 948.1/22

In: 28.382 $\pm$ 0.335 χ^2 /NDF:3150.7/33

Out: 29.453 $\pm$ 0.319 χ^2 /NDF:3446.8/36

All: 28.943 $\pm$ 0.231 χ^2 /NDF: 6602.9/70

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.278 ± 0.538 $\chi^2/\text{NDF}: 159.0/27$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.198 ± 0.501 $\chi^2/\text{NDF}: 95.2/30$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

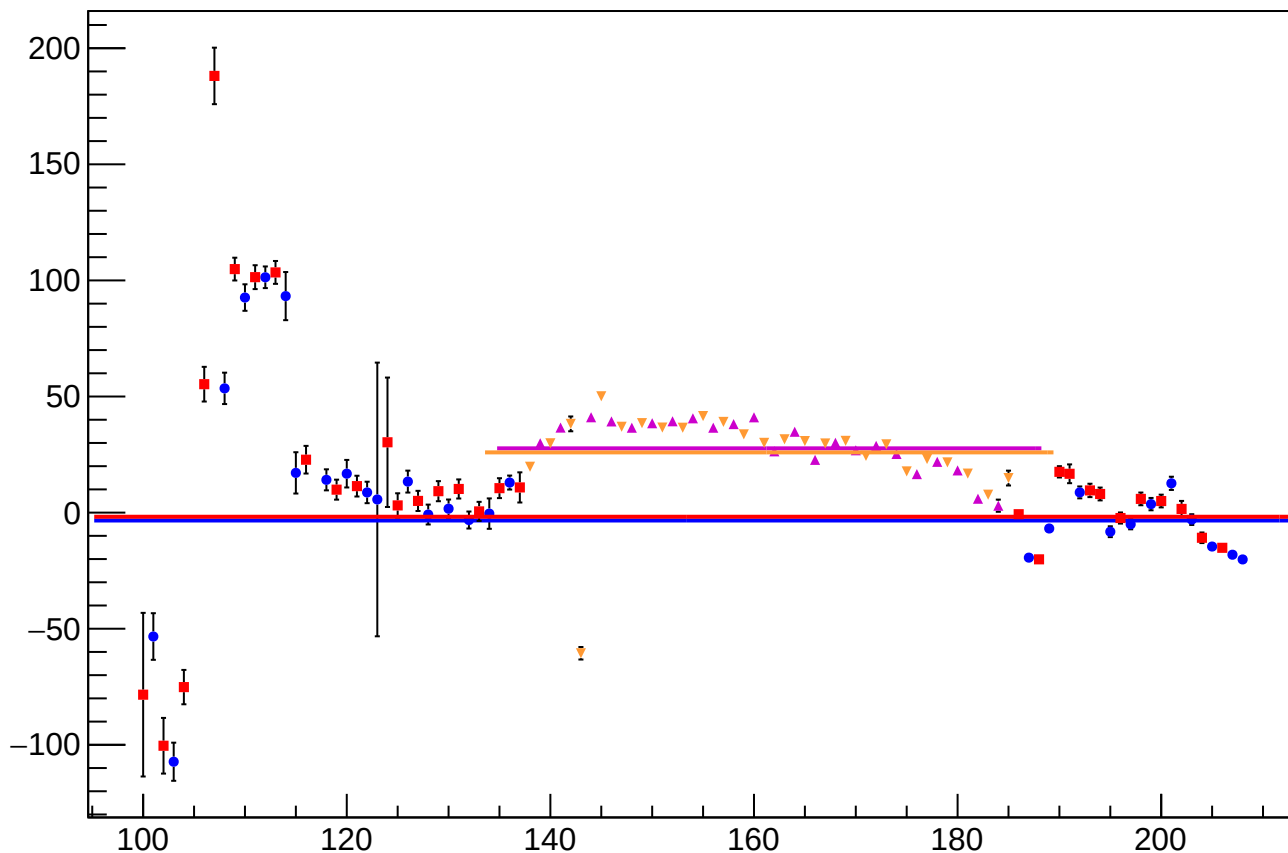
Right: -1.699 ± 0.367 $\chi^2/\text{NDF}: 256.3/58$

In: -1.883 ± 0.263 $\chi^2/\text{NDF}: 227.1/50$

Out: -2.136 ± 0.252 $\chi^2/\text{NDF}: 205.9/55$

All: -2.015 ± 0.182 $\chi^2/\text{NDF}: 433.5/106$

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.391 ± 0.574 χ^2/NDF : 1519.5/27

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -1.780 ± 0.487 χ^2/NDF : 2476.3/30

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

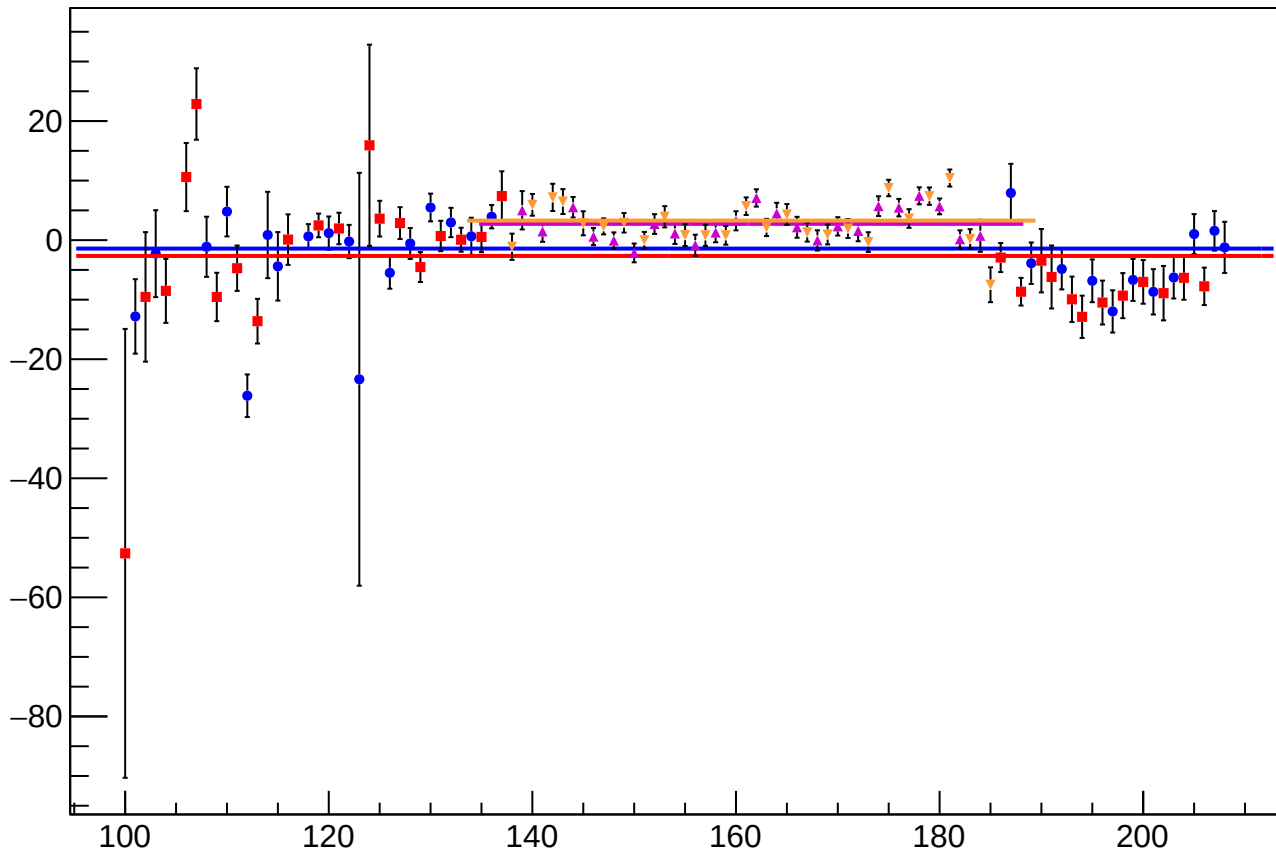
Right: -2.454 ± 0.371 χ^2/NDF : 4000.4/58

In: 18.274 ± 0.316 χ^2/NDF : 4365.5/50

Out: 15.719 ± 0.296 χ^2/NDF : 6231.1/55

All: 16.913 ± 0.216 χ^2/NDF : 10631.5/106

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.418 ± 0.621 χ^2/NDF : 103.7/27

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.653 ± 0.599 χ^2/NDF : 103.6/30

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

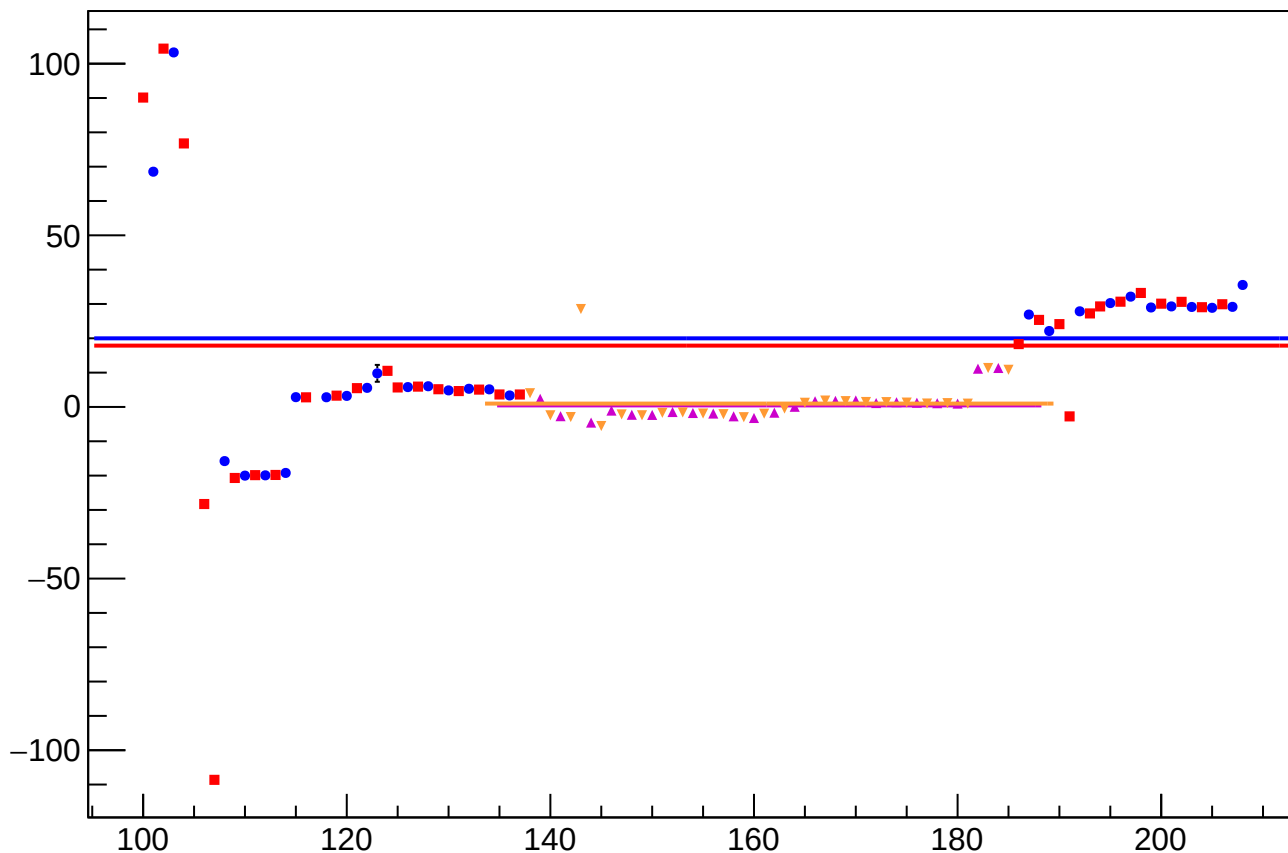
Right: -2.058 ± 0.431 χ^2/NDF : 209.3/58

In: 1.774 ± 0.299 χ^2/NDF : 202.6/50

Out: 1.890 ± 0.290 χ^2/NDF : 281.1/55

All: 1.834 ± 0.208 χ^2/NDF : 483.8/106

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 19.990 $\pm$ 0.029 χ^2 /NDF: 496057.8/27

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF:117391.3/24

Right Out: 17.867 $\pm$ 0.028 χ^2 /NDF: 722911.5/30

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

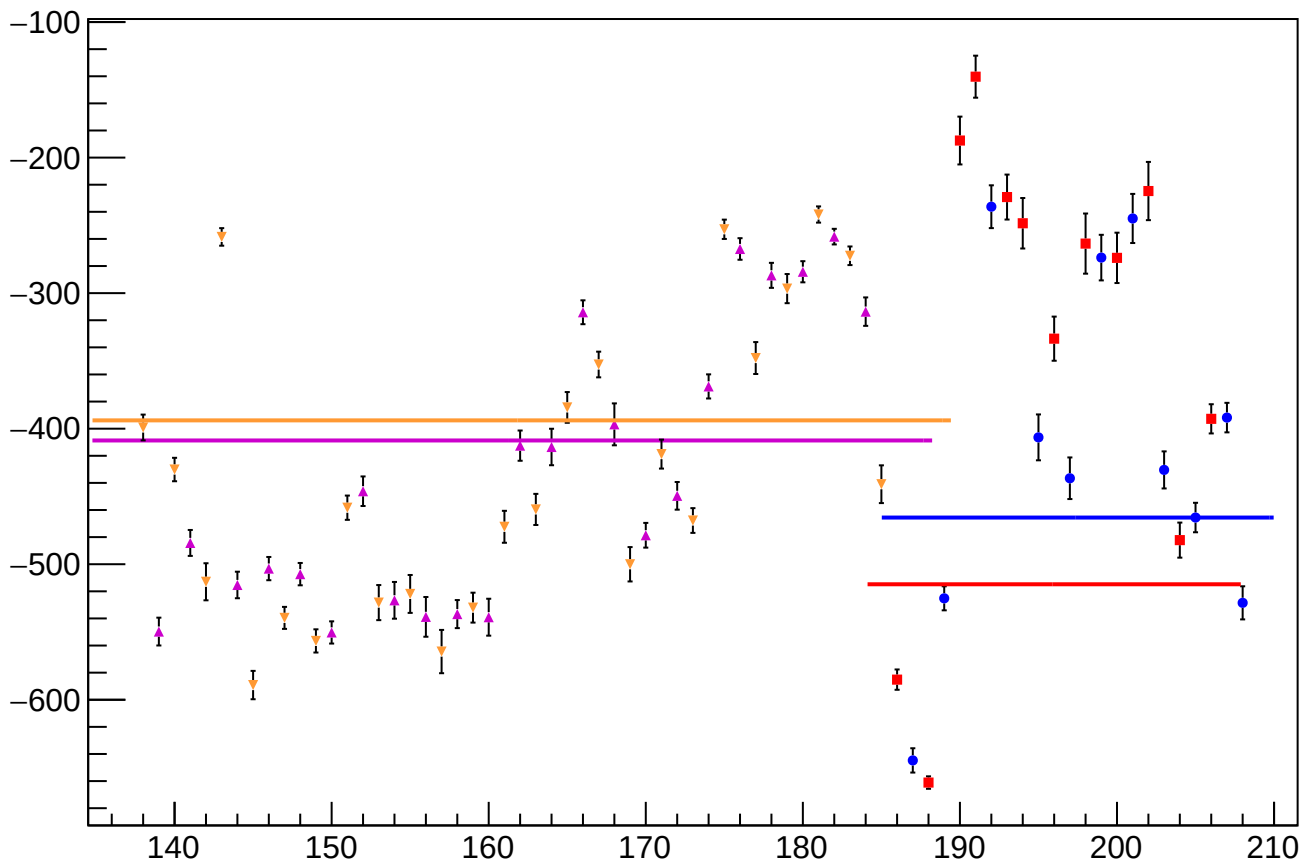
Right: 18.897 $\pm$ 0.020 χ^2 /NDF: 1221701.5/58

In: 4.729 $\pm$ 0.014 χ^2 /NDF:897762.8/50

Out: 4.761 $\pm$ 0.013 χ^2 /NDF:1117064.4/55

All: 4.745 $\pm$ 0.010 χ^2 /NDF: 2014829.9/106

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -465.571+/-3.716 χ^2/NDF : 1028.8/10

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -514.796+/-3.093 χ^2/NDF : 3268.8/11

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

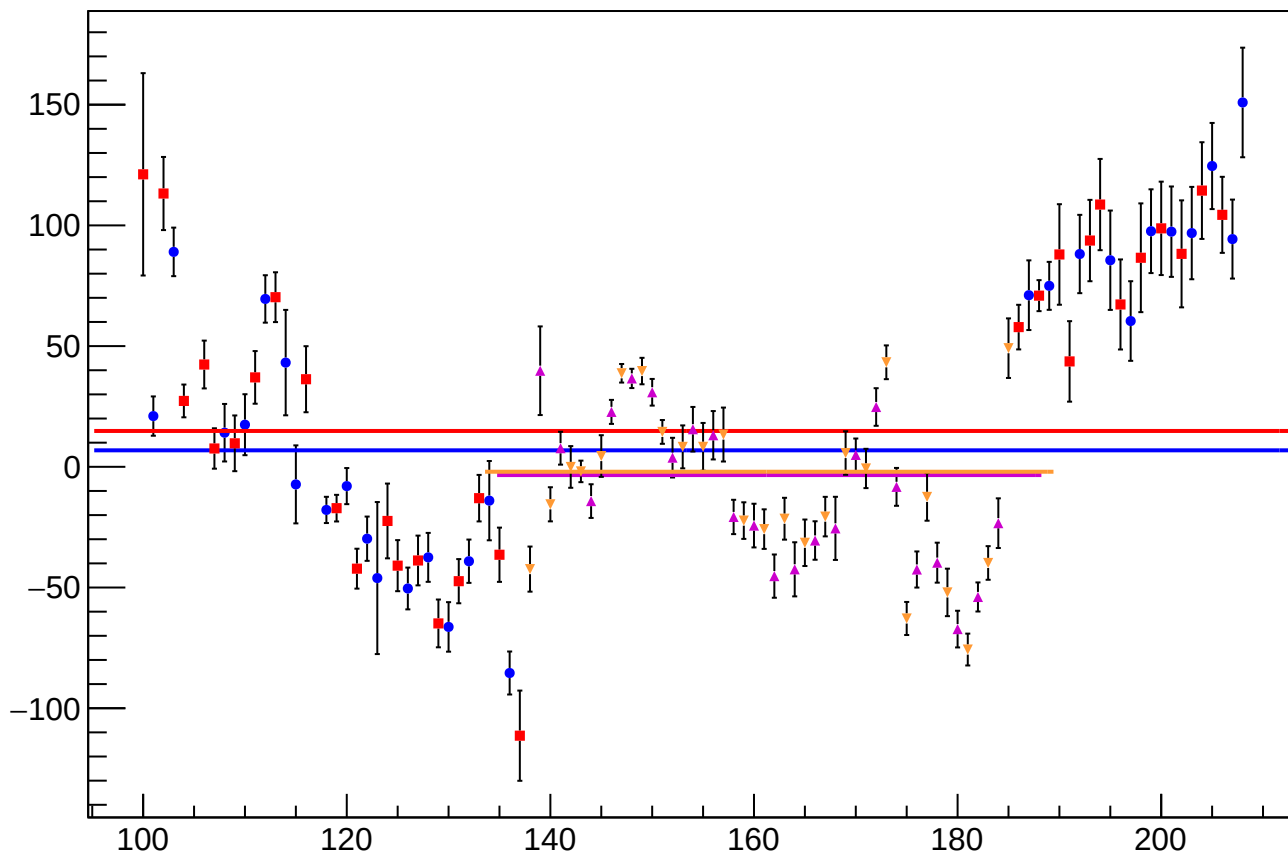
Right: -494.647+/-2.377 χ^2/NDF : 4401.3/22

In: -421.265+/-1.747 χ^2/NDF : 4274.2/33

Out: -426.925+/-1.617 χ^2/NDF : 8152.3/36

All: -424.313+/-1.187 χ^2/NDF : 12432.2/70

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.827 ± 2.117 $\chi^2/\text{NDF}: 710.0/27$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 14.850 ± 1.962 $\chi^2/\text{NDF}: 688.5/30$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

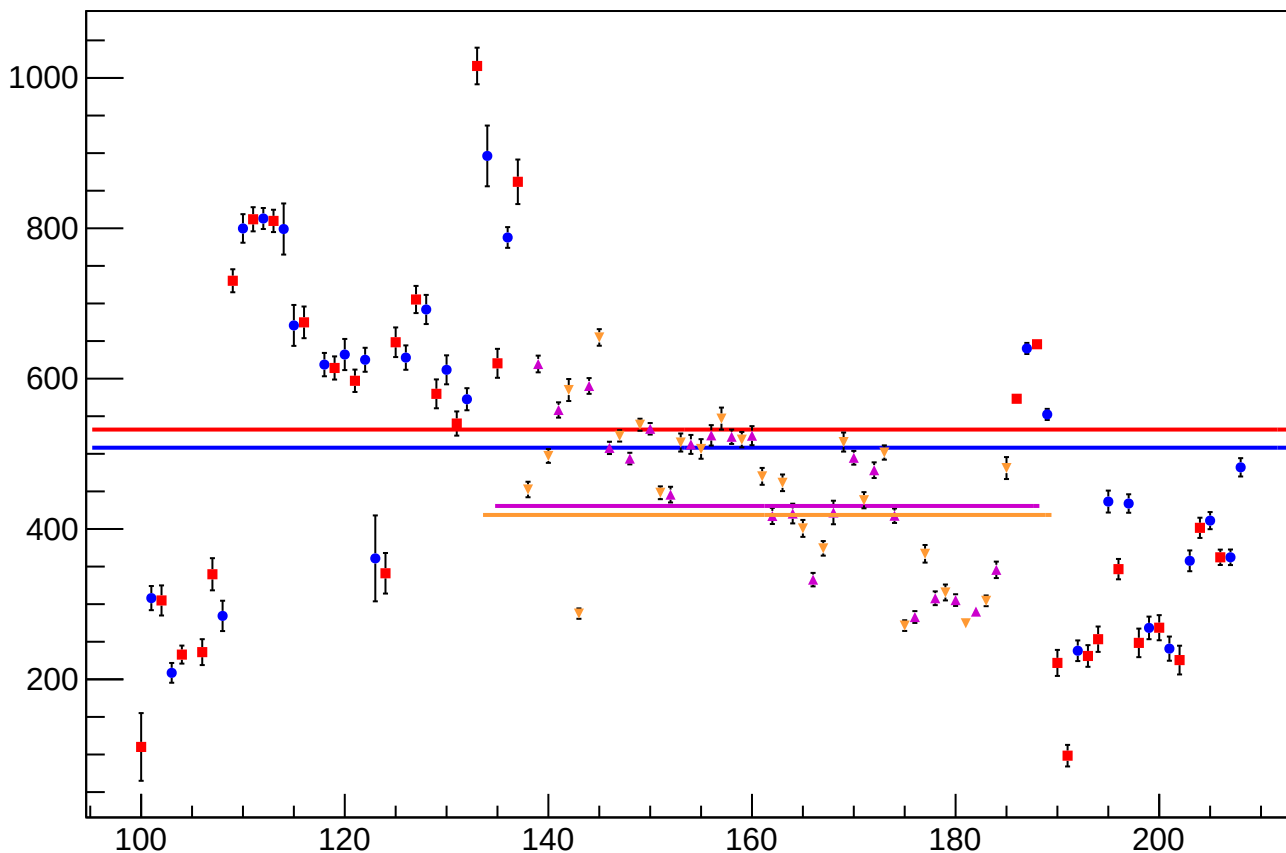
Right: 11.143 ± 1.439 $\chi^2/\text{NDF}: 1406.2/58$

In: 0.066 ± 1.235 $\chi^2/\text{NDF}: 1176.4/50$

Out: 3.791 ± 1.153 $\chi^2/\text{NDF}: 1300.8/55$

All: 2.056 ± 0.843 $\chi^2/\text{NDF}: 2482.1/106$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.131 $\pm$ 2.643 χ^2 /NDF: 4188.2/27

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 532.262 $\pm$ 2.205 χ^2 /NDF: 7076.9/30

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

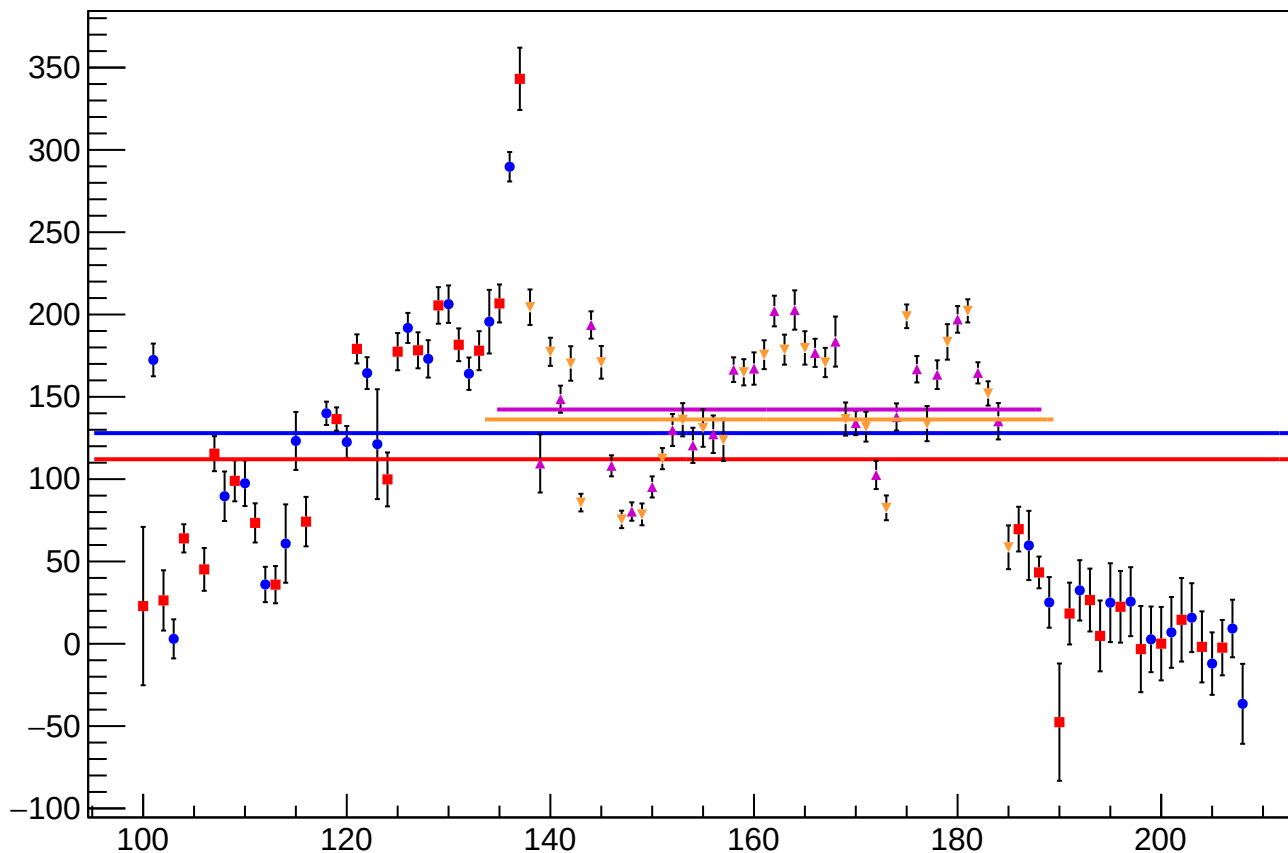
Right: 522.360 $\pm$ 1.693 χ^2 /NDF: 11314.2/58

In: 458.333 $\pm$ 1.580 χ^2 /NDF:7591.3/50

Out: 467.230 $\pm$ 1.441 χ^2 /NDF:11893.1/55

All: 463.188 $\pm$ 1.065 χ^2 /NDF: 19501.7/106

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 127.962 ± 2.471 $\chi^2/\text{NDF}: 1077.3/27$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 112.097 ± 2.336 $\chi^2/\text{NDF}: 955.0/30$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

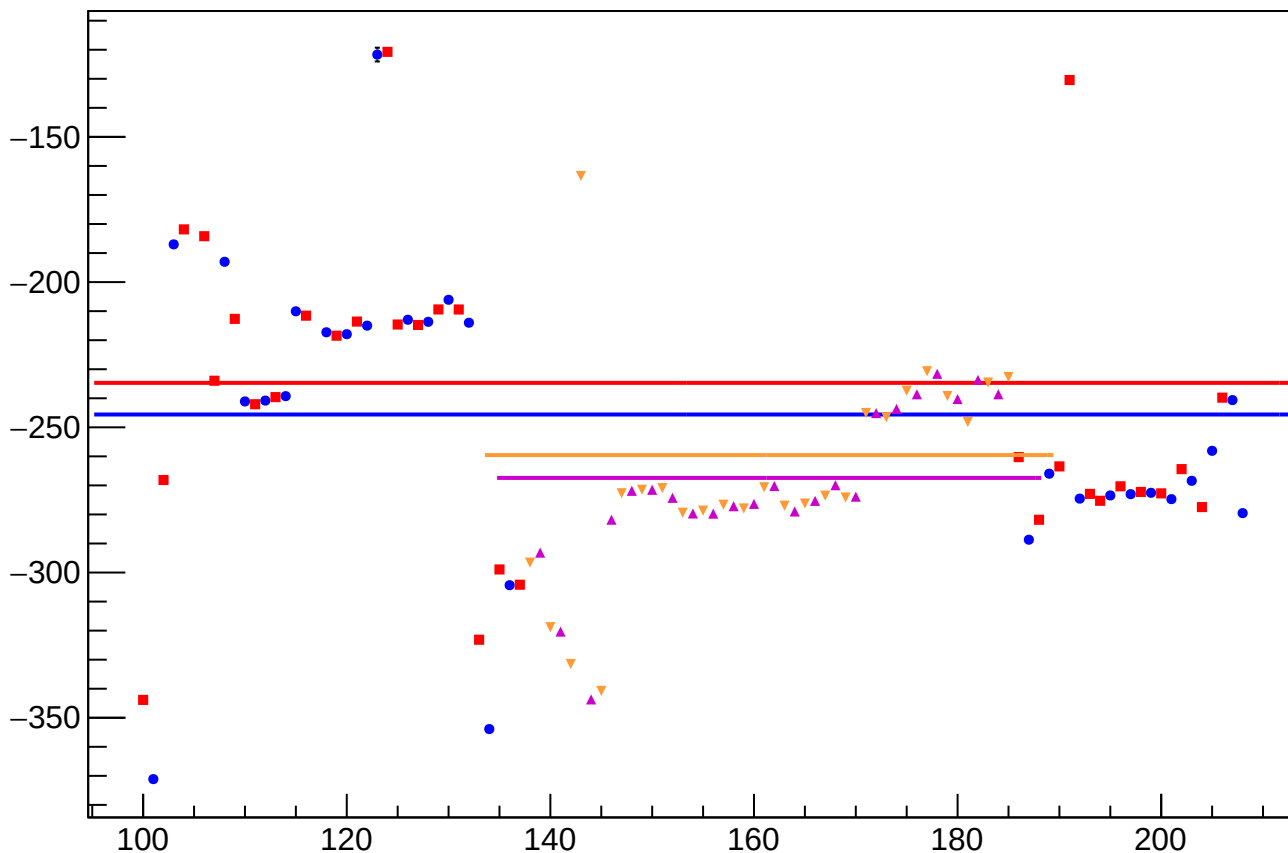
Right: 119.586 ± 1.697 $\chi^2/\text{NDF}: 2054.1/58$

In: 137.527 ± 1.425 $\chi^2/\text{NDF}: 1559.6/50$

Out: 128.210 ± 1.348 $\chi^2/\text{NDF}: 1784.6/55$

All: 132.610 ± 0.979 $\chi^2/\text{NDF}: 3366.8/106$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

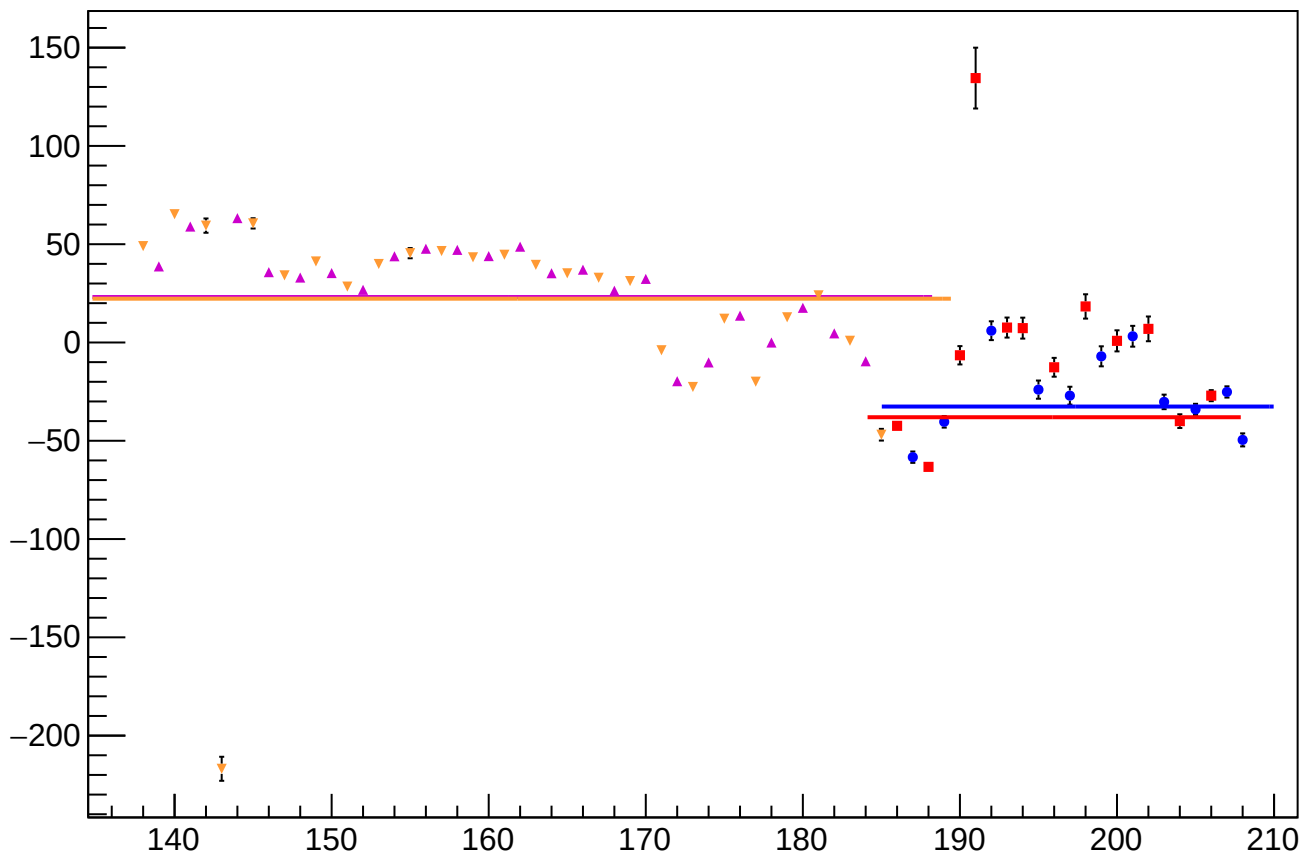
Right: -239.743 ± 0.084 $\chi^2/\text{NDF}: 343128.3/58$

In: -260.726 ± 0.068 $\chi^2/\text{NDF}: 284702.8/50$

Out: -251.502 ± 0.065 $\chi^2/\text{NDF}: 444403.4/55$

All: -255.907 ± 0.047 $\chi^2/\text{NDF}: 738714.6/106$

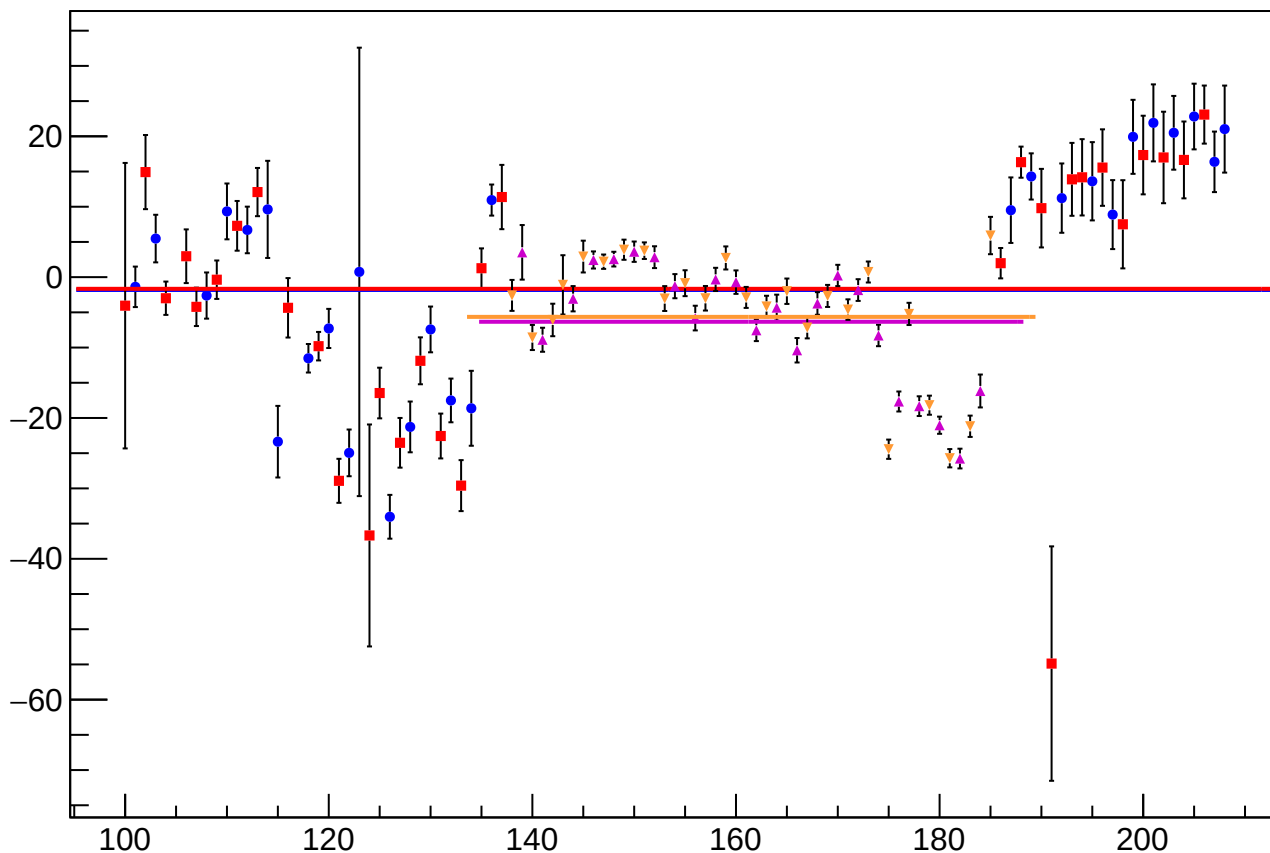
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.589 ± 1.081 χ^2/NDF : 260.5/10
 Left Out: 22.279 ± 0.399 χ^2/NDF : 5171.0/24
 Right Out: -38.024 ± 0.913 χ^2/NDF : 821.0/11
 Left In: 23.136 ± 0.401 χ^2/NDF : 2744.7/22

Left: 22.705 ± 0.283 χ^2/NDF : 7918.0/47
 Right: -35.763 ± 0.697 χ^2/NDF : 1096.2/22
 In: 16.383 ± 0.376 χ^2/NDF : 5340.3/33
 Out: 12.612 ± 0.365 χ^2/NDF : 9658.1/36
 All: 14.442 ± 0.262 χ^2/NDF : 15050.1/70

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.821 ± 0.692 $\chi^2/\text{NDF}: 487.0/27$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -1.658 ± 0.638 $\chi^2/\text{NDF}: 490.1/30$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

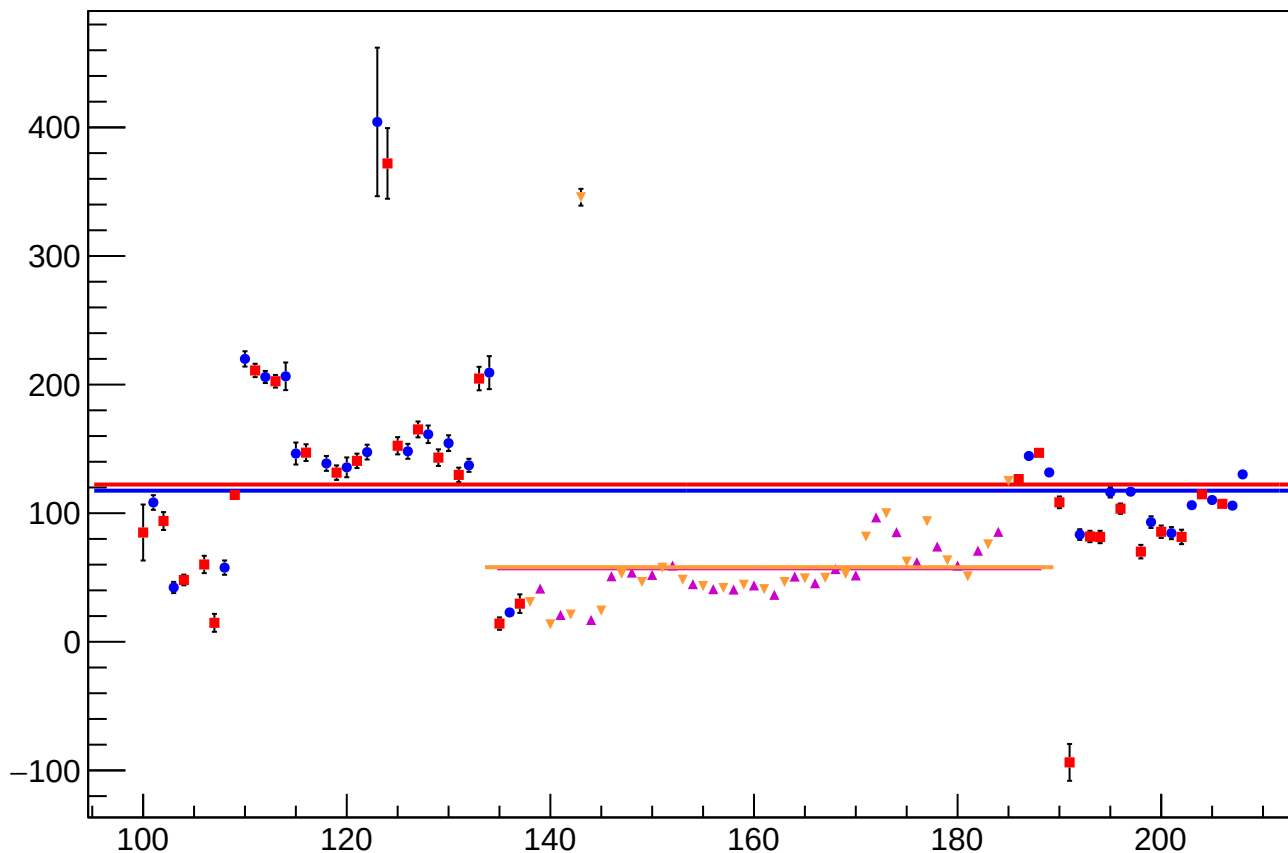
Right: -1.733 ± 0.469 $\chi^2/\text{NDF}: 977.1/58$

In: -5.537 ± 0.291 $\chi^2/\text{NDF}: 1305.0/50$

Out: -4.859 ± 0.283 $\chi^2/\text{NDF}: 1415.2/55$

All: -5.188 ± 0.203 $\chi^2/\text{NDF}: 2723.0/106$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 117.509 $\pm$ 0.808 χ^2 /NDF: 2513.5/27

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 122.291 $\pm$ 0.672 χ^2 /NDF: 3211.9/30

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

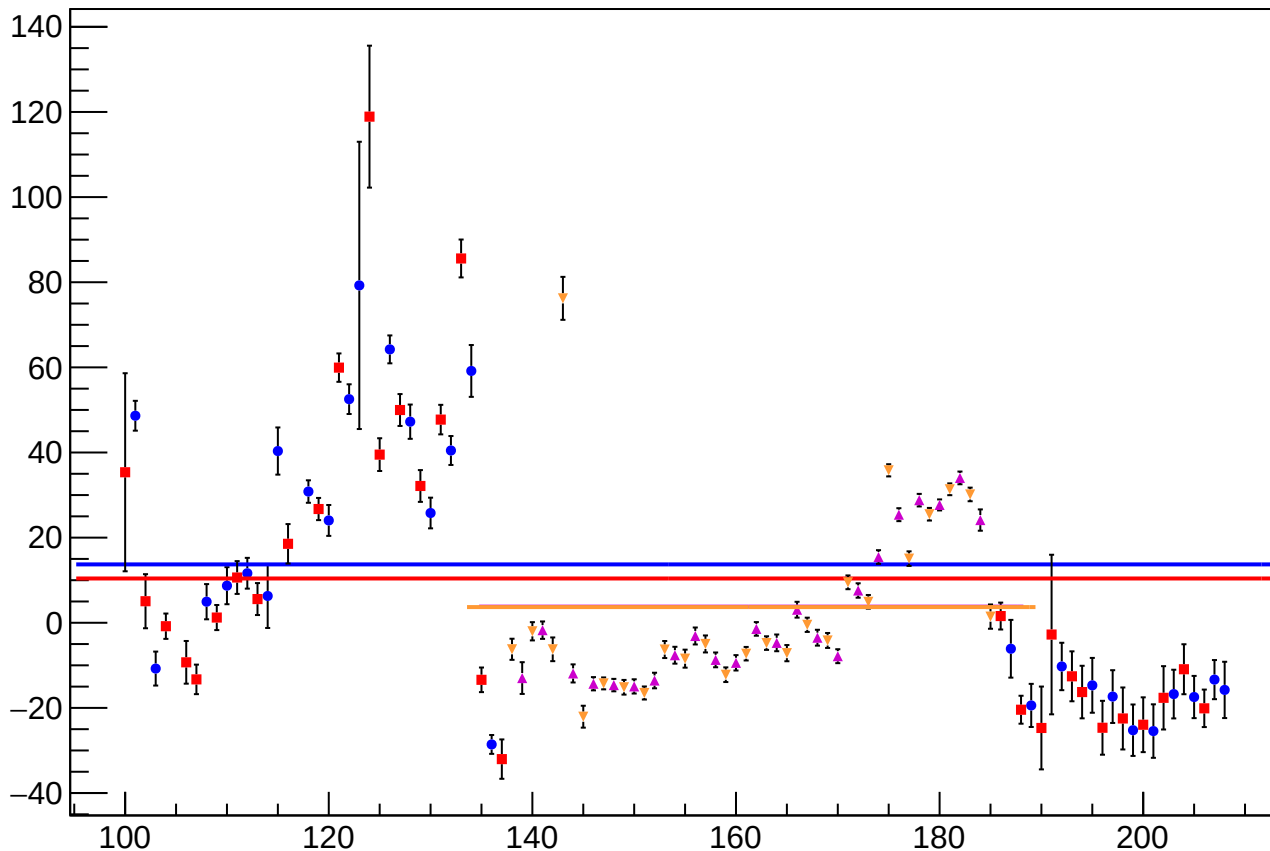
Right: 120.337 $\pm$ 0.517 χ^2 /NDF: 5746.1/58

In: 69.000 $\pm$ 0.358 χ^2 /NDF:8802.2/50

Out: 74.694 $\pm$ 0.342 χ^2 /NDF:14630.2/55

All: 71.975 $\pm$ 0.247 χ^2 /NDF: 23564.4/106

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.713 $\pm$ 0.798 χ^2 /NDF: 1462.8/27

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 10.403 $\pm$ 0.758 χ^2 /NDF: 1449.2/30

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

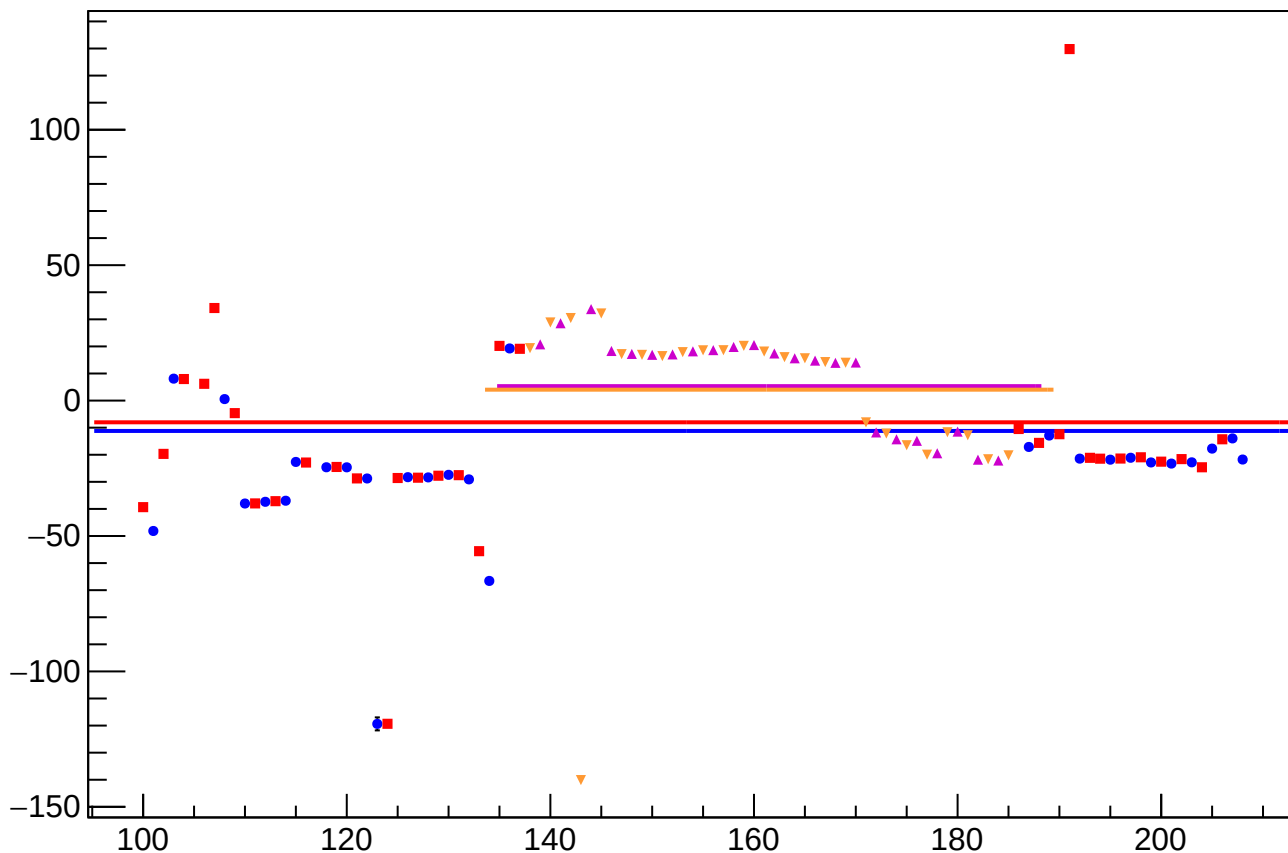
Right: 11.972 $\pm$ 0.549 χ^2 /NDF: 2921.1/58

In: 5.479 $\pm$ 0.329 χ^2 /NDF:3790.0/50

Out: 4.903 $\pm$ 0.323 χ^2 /NDF:4055.2/55

All: 5.185 $\pm$ 0.231 χ^2 /NDF: 7846.8/106

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.209 $\pm$ 0.037 χ^2 /NDF: 298690.5/27

Left Out: 4.026 $\pm$ 0.016 χ^2 /NDF: 1383143.9/24

Right Out: -8.017 $\pm$ 0.036 χ^2 /NDF: 387185.3/30

Left In: 5.335 $\pm$ 0.016 χ^2 /NDF: 1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2 /NDF: 2464153.9/47

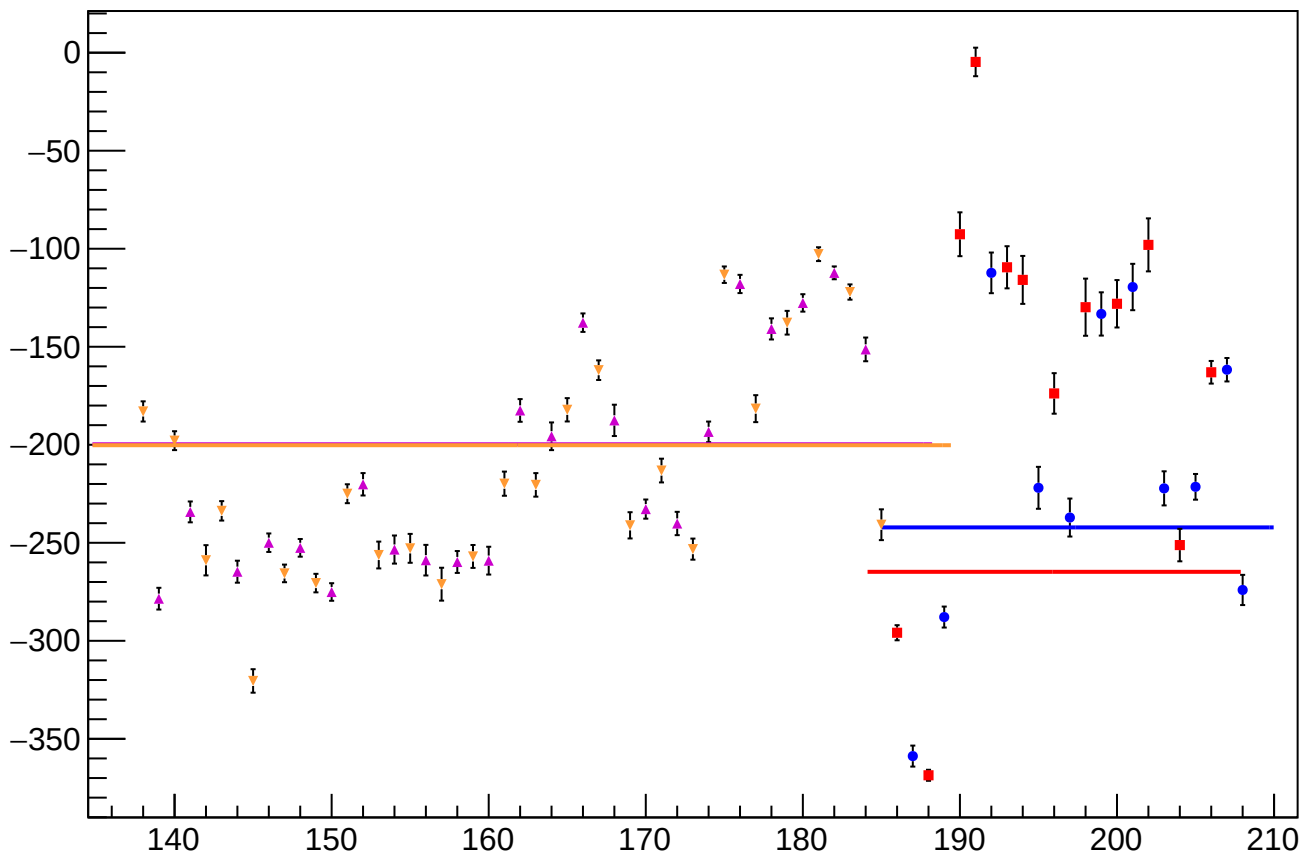
Right: -9.576 $\pm$ 0.026 χ^2 /NDF: 689652.7/58

In: 2.630 $\pm$ 0.015 χ^2 /NDF: 1542436.4/50

Out: 1.992 $\pm$ 0.015 χ^2 /NDF: 1861802.7/55

All: 2.309 $\pm$ 0.011 χ^2 /NDF: 3405147.6/106

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -242.150 ± 2.264 $\chi^2/\text{NDF}: 1126.1/10$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -264.809 ± 1.805 $\chi^2/\text{NDF}: 4054.9/11$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

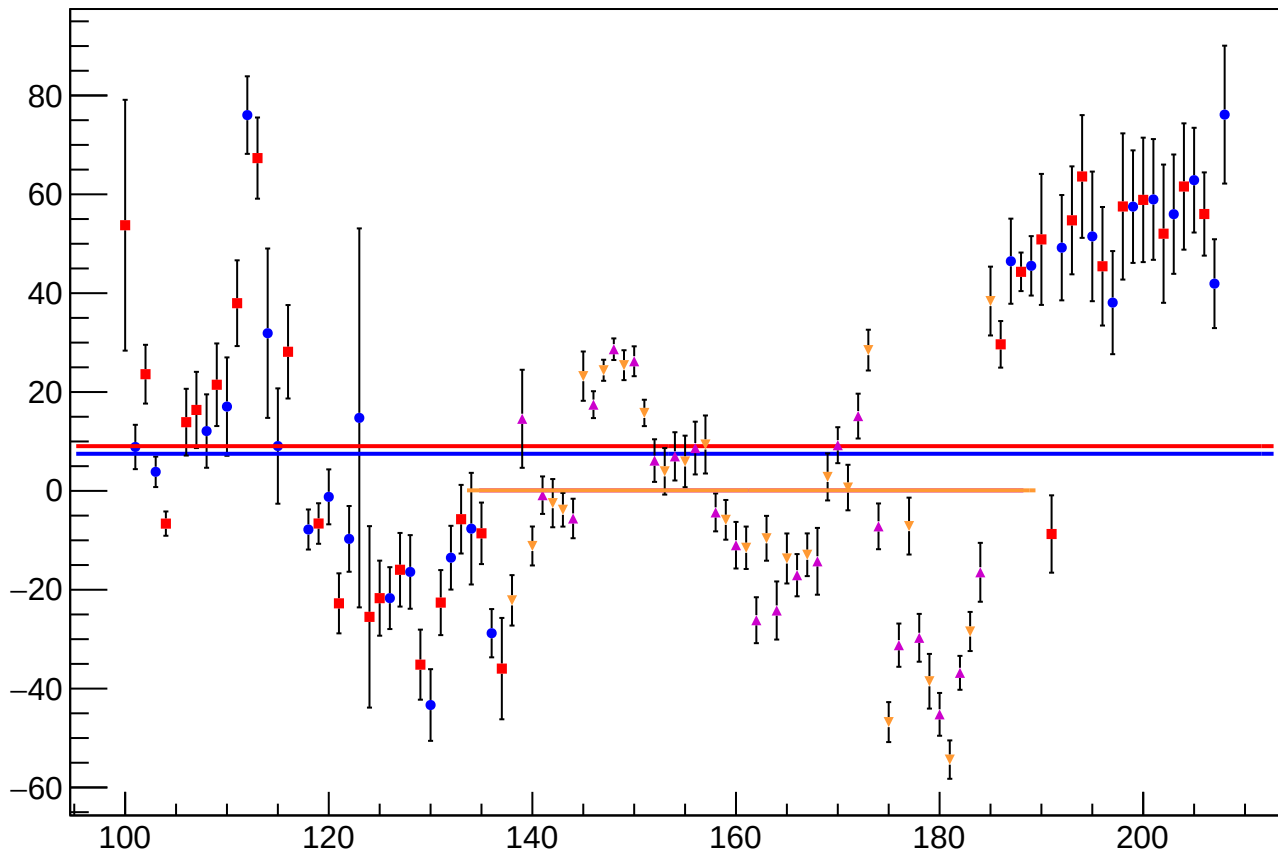
Right: -256.002 ± 1.411 $\chi^2/\text{NDF}: 5242.3/22$

In: -207.809 ± 0.987 $\chi^2/\text{NDF}: 4378.4/33$

Out: -217.202 ± 0.925 $\chi^2/\text{NDF}: 8223.5/36$

All: -212.810 ± 0.675 $\chi^2/\text{NDF}: 12650.0/70$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.508 ± 1.318 $\chi^2/\text{NDF}: 468.5/27$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 9.051 ± 1.193 $\chi^2/\text{NDF}: 532.0/30$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

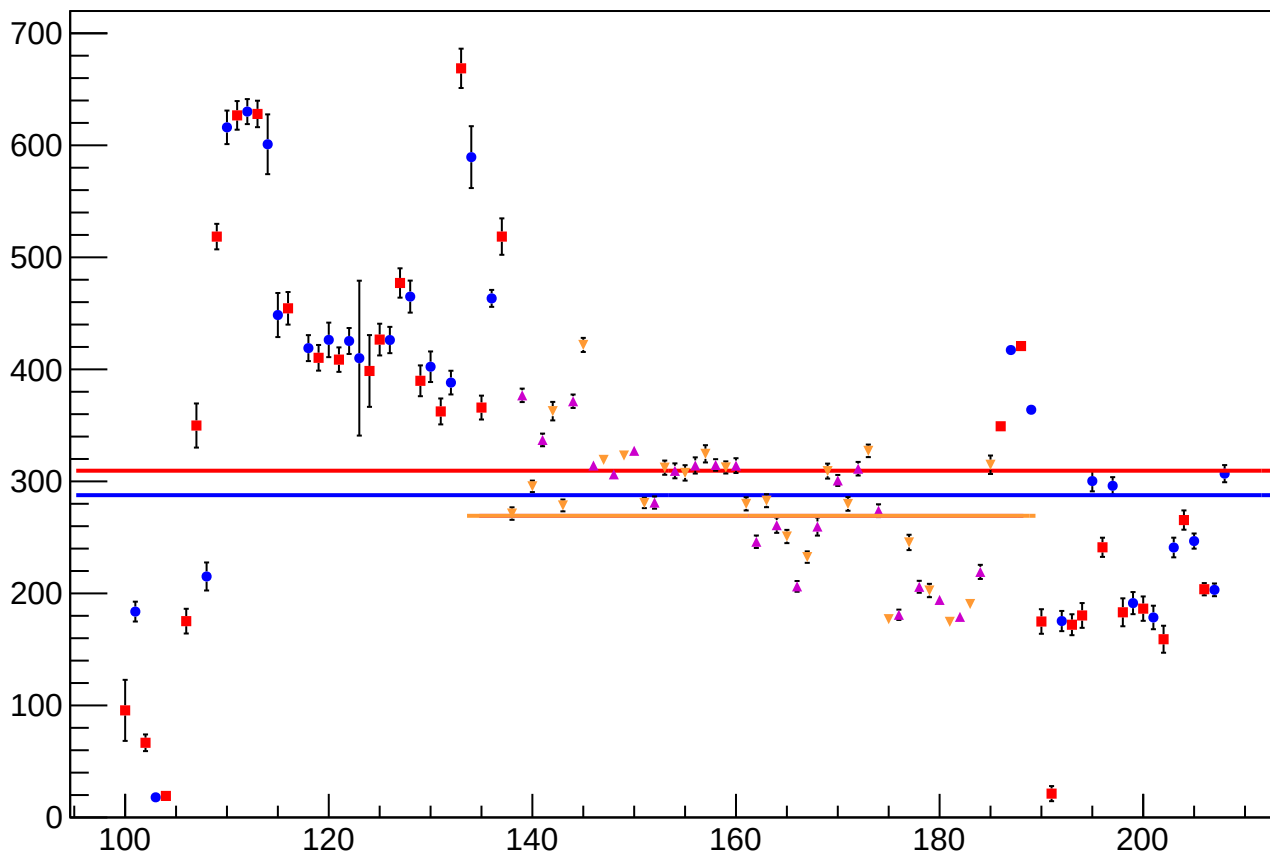
Right: 8.356 ± 0.884 $\chi^2/\text{NDF}: 1001.2/58$

In: 2.231 ± 0.707 $\chi^2/\text{NDF}: 1206.5/50$

Out: 2.917 ± 0.669 $\chi^2/\text{NDF}: 1401.8/55$

All: 2.593 ± 0.486 $\chi^2/\text{NDF}: 2608.7/106$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 287.694 $\pm$ 1.569 χ^2 /NDF: 9512.5/27

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 309.531 $\pm$ 1.292 χ^2 /NDF: 14360.1/30

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

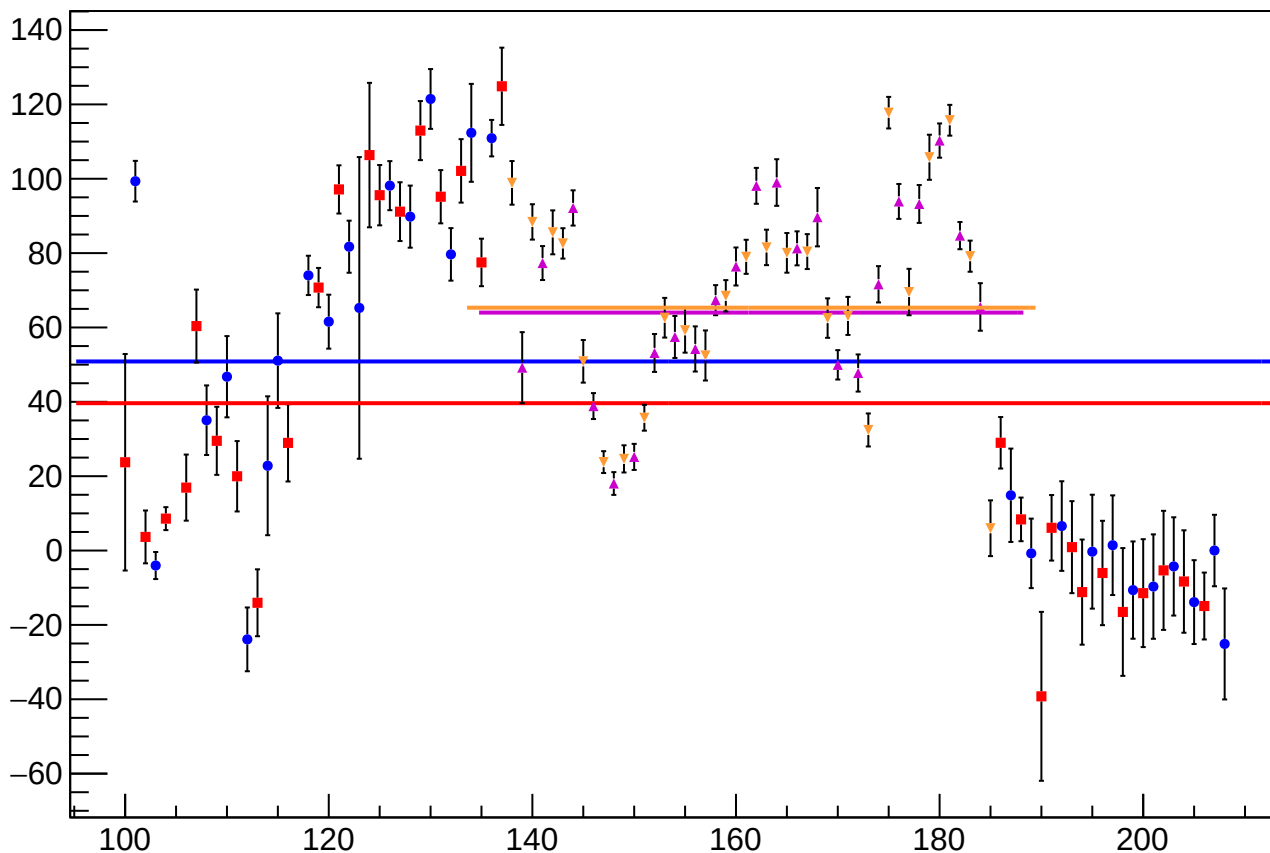
Right: 300.709 $\pm$ 0.997 χ^2 /NDF: 23988.1/58

In: 275.219 $\pm$ 0.895 χ^2 /NDF:12776.5/50

Out: 285.796 $\pm$ 0.827 χ^2 /NDF:18079.4/55

All: 280.925 $\pm$ 0.608 χ^2 /NDF: 30931.2/106

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 50.859 $\pm$ 1.540 χ^2/NDF : 988.8/27

Left Out: 65.323 $\pm$ 0.935 χ^2/NDF :1007.1/24

Right Out: 39.633 $\pm$ 1.442 χ^2/NDF : 867.2/30

Left In: 63.999 $\pm$ 0.963 χ^2/NDF :799.5/22

Left: 64.681 $\pm$ 0.671 χ^2/NDF : 1807.5/47

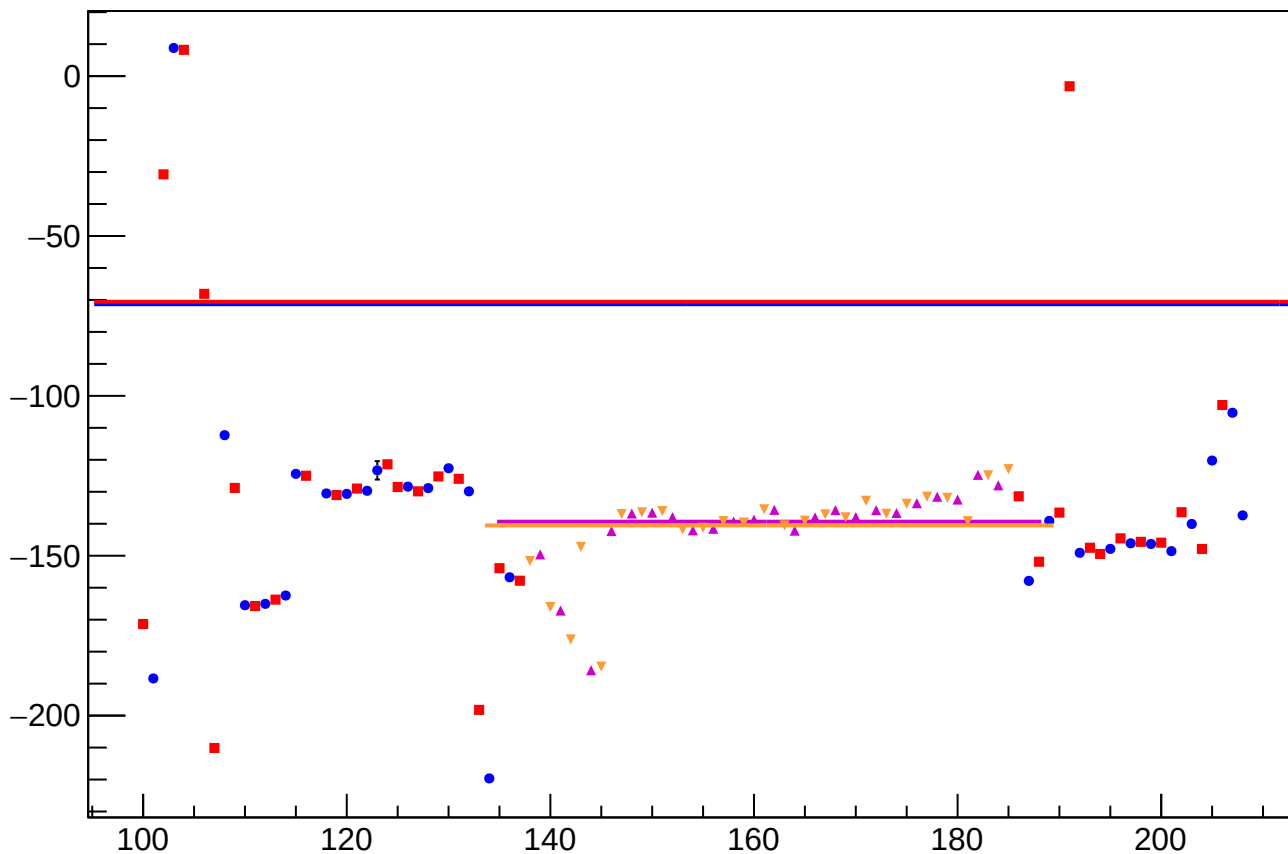
Right: 44.877 $\pm$ 1.053 χ^2/NDF : 1884.4/58

In: 60.306 $\pm$ 0.816 χ^2/NDF :1840.6/50

Out: 57.722 $\pm$ 0.784 χ^2/NDF :2097.8/55

All: 58.962 $\pm$ 0.566 χ^2/NDF : 3943.7/106

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -71.329 ± 0.062 $\chi^2/\text{NDF}: 1548236.9/27$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -70.573 ± 0.061 $\chi^2/\text{NDF}: 1385751.8/30$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

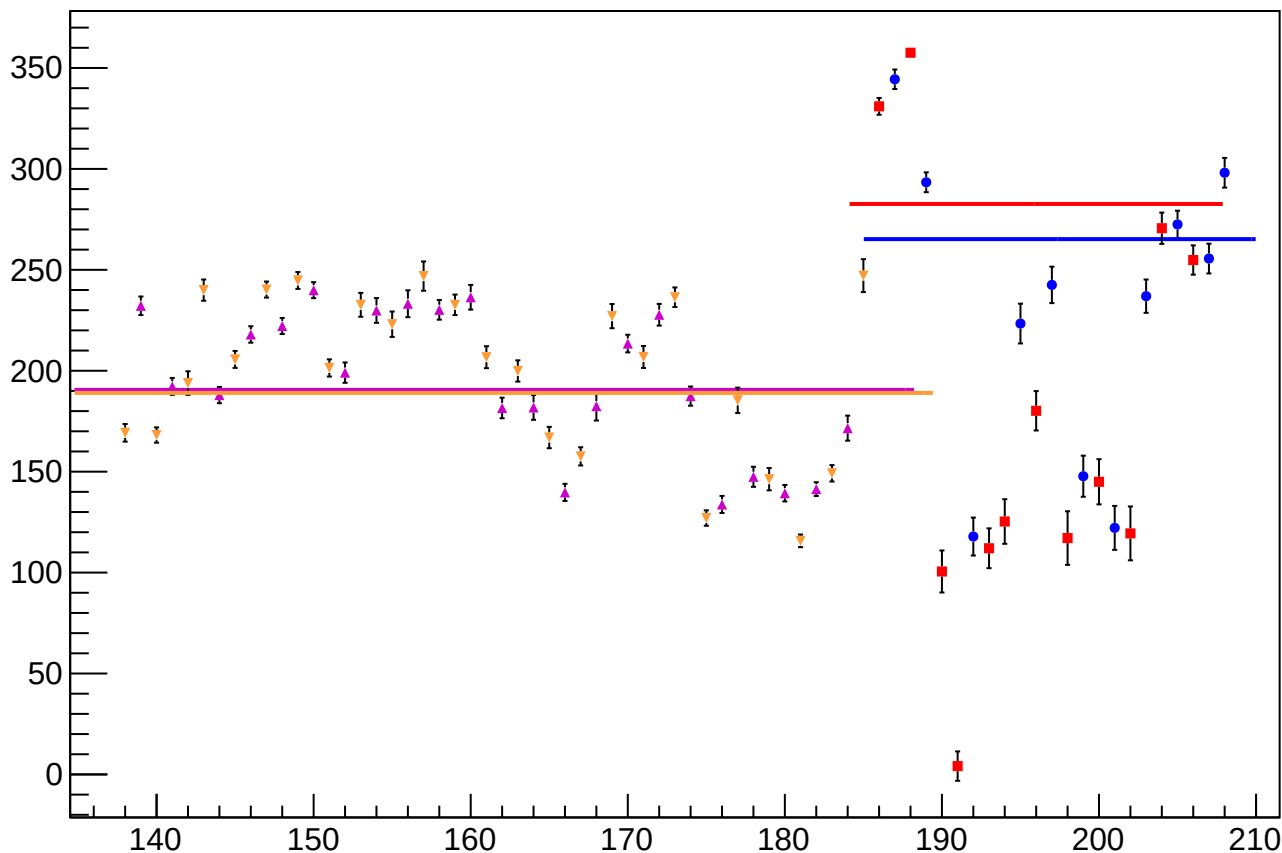
Right: -70.941 ± 0.044 $\chi^2/\text{NDF}: 2934063.8/58$

In: -116.119 ± 0.037 $\chi^2/\text{NDF}: 2391145.4/50$

Out: -116.119 ± 0.036 $\chi^2/\text{NDF}: 2323013.7/55$

All: -116.119 ± 0.026 $\chi^2/\text{NDF}: 4714159.1/10$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 265.213 ± 2.186 $\chi^2/\text{NDF}: 911.4/10$

Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$

Right Out: 282.637 ± 1.743 $\chi^2/\text{NDF}: 3885.5/11$

Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$

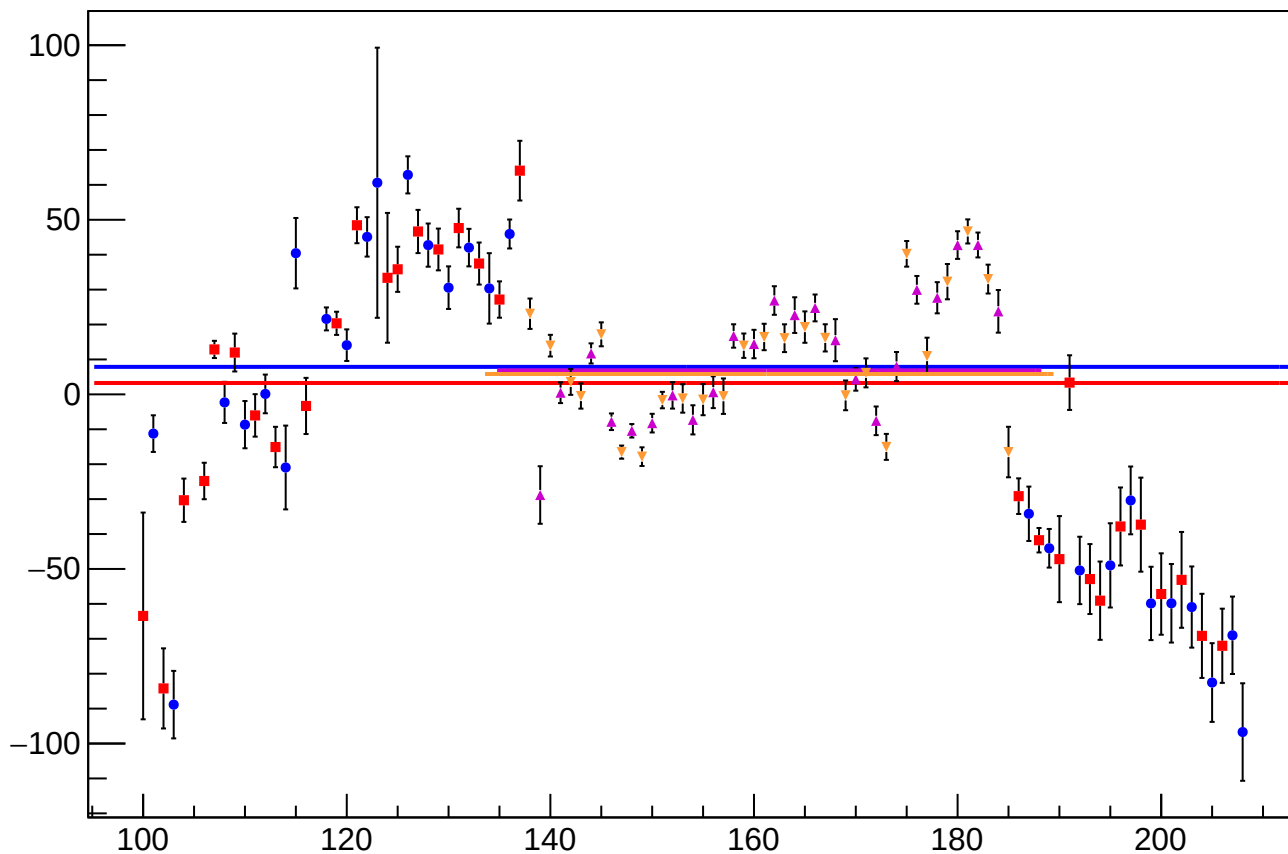
Right: 275.865 ± 1.363 $\chi^2/\text{NDF}: 4835.7/22$

In: 202.906 ± 0.890 $\chi^2/\text{NDF}: 3298.5/33$

Out: 210.677 ± 0.838 $\chi^2/\text{NDF}: 8084.0/36$

All: 207.027 ± 0.610 $\chi^2/\text{NDF}: 11422.9/70$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.875 ± 1.255 $\chi^2/\text{NDF}: 960.5/27$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 3.258 ± 1.075 $\chi^2/\text{NDF}: 979.6/30$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

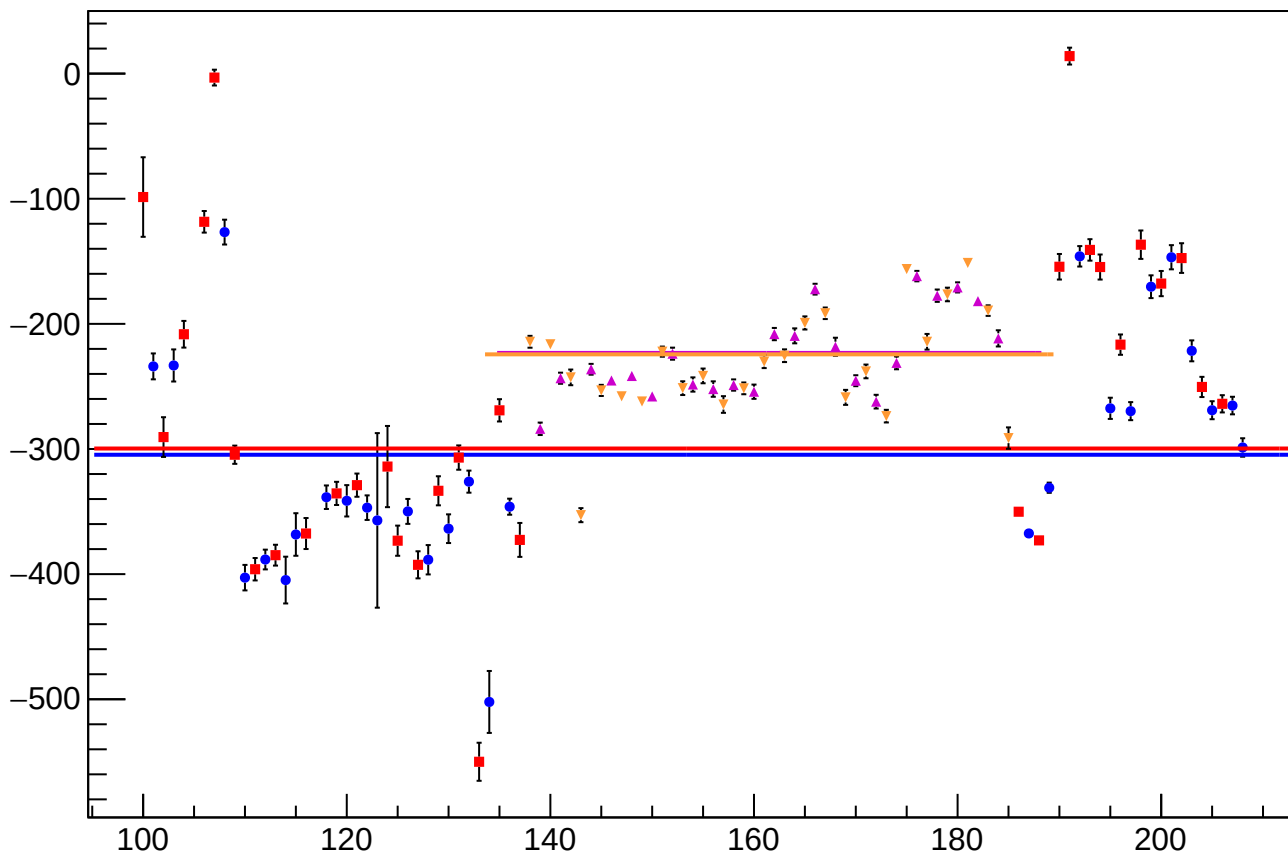
Right: 5.211 ± 0.817 $\chi^2/\text{NDF}: 1947.8/58$

In: 7.121 ± 0.635 $\chi^2/\text{NDF}: 1483.7/50$

Out: 5.048 ± 0.594 $\chi^2/\text{NDF}: 1635.8/55$

All: 6.015 ± 0.434 $\chi^2/\text{NDF}: 3125.2/106$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -304.603 ± 1.550 χ^2/NDF : 2249.0/27

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -299.618 ± 1.236 χ^2/NDF : 8658.8/30

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

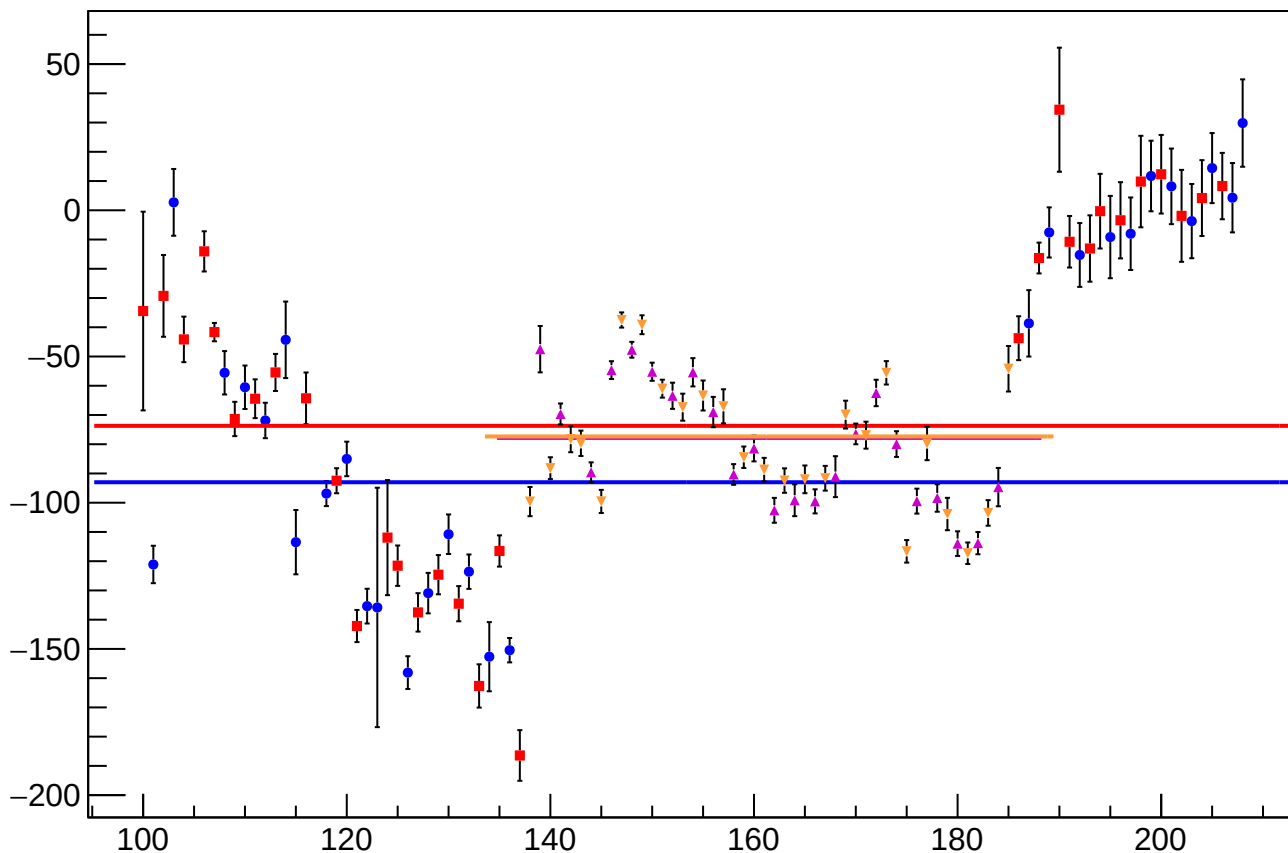
Right: -301.557 ± 0.966 χ^2/NDF : 10914.1/58

In: -246.107 ± 0.822 χ^2/NDF : 5501.0/50

Out: -252.525 ± 0.756 χ^2/NDF : 13080.7/55

All: -249.581 ± 0.556 χ^2/NDF : 18614.7/106

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.000 ± 1.460 $\chi^2/\text{NDF}: 1289.6/27$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -73.709 ± 1.289 $\chi^2/\text{NDF}: 1555.9/30$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

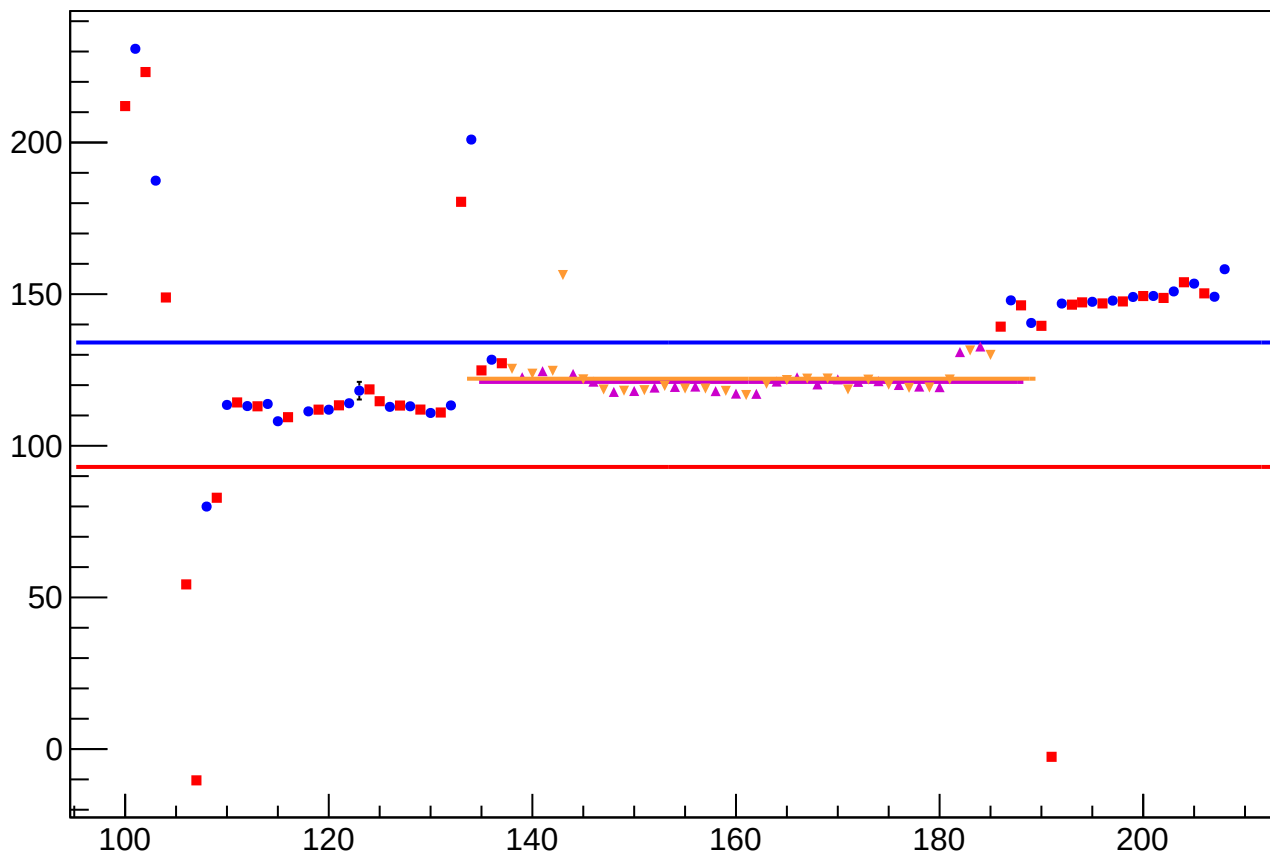
Right: -82.161 ± 0.966 $\chi^2/\text{NDF}: 2943.6/58$

In: -81.668 ± 0.734 $\chi^2/\text{NDF}: 1993.0/50$

Out: -76.285 ± 0.696 $\chi^2/\text{NDF}: 2407.8/55$

All: -78.834 ± 0.505 $\chi^2/\text{NDF}: 4429.1/106$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 134.058+/-0.074

χ^2/NDF : 206116.2/27

Left Out: 122.119+/-0.039

χ^2/NDF :30480.7/24

Right Out: 93.030+/-0.062

χ^2/NDF : 1129929.8/30

Left In: 121.055+/-0.040

χ^2/NDF :7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

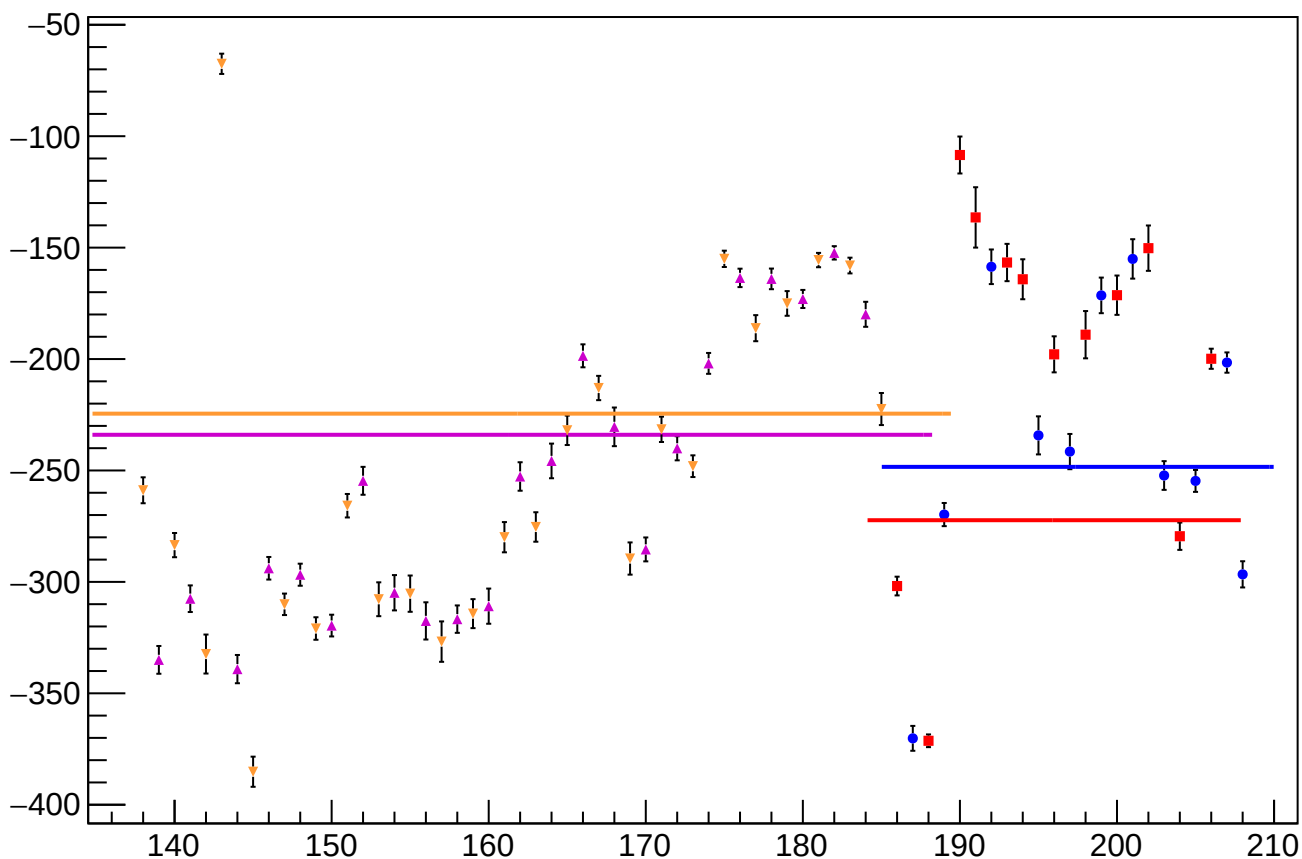
Right: 110.067+/-0.048 χ^2/NDF : 1515799.4/58

In: 123.965+/-0.035 χ^2/NDF :238013.1/50

Out: 113.816+/-0.033 χ^2/NDF :1315899.8/55

All: 118.639+/-0.024 χ^2/NDF : 1598019.6/106

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -248.382 $\pm$ 1.868 χ^2/NDF : 1009.3/10

Left Out: -224.501 $\pm$ 1.079 χ^2/NDF : 4870.6/24

Right Out: -272.322 $\pm$ 1.694 χ^2/NDF : 2761.4/11

Left In: -233.988 $\pm$ 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 $\pm$ 0.773 χ^2/NDF : 8446.6/47

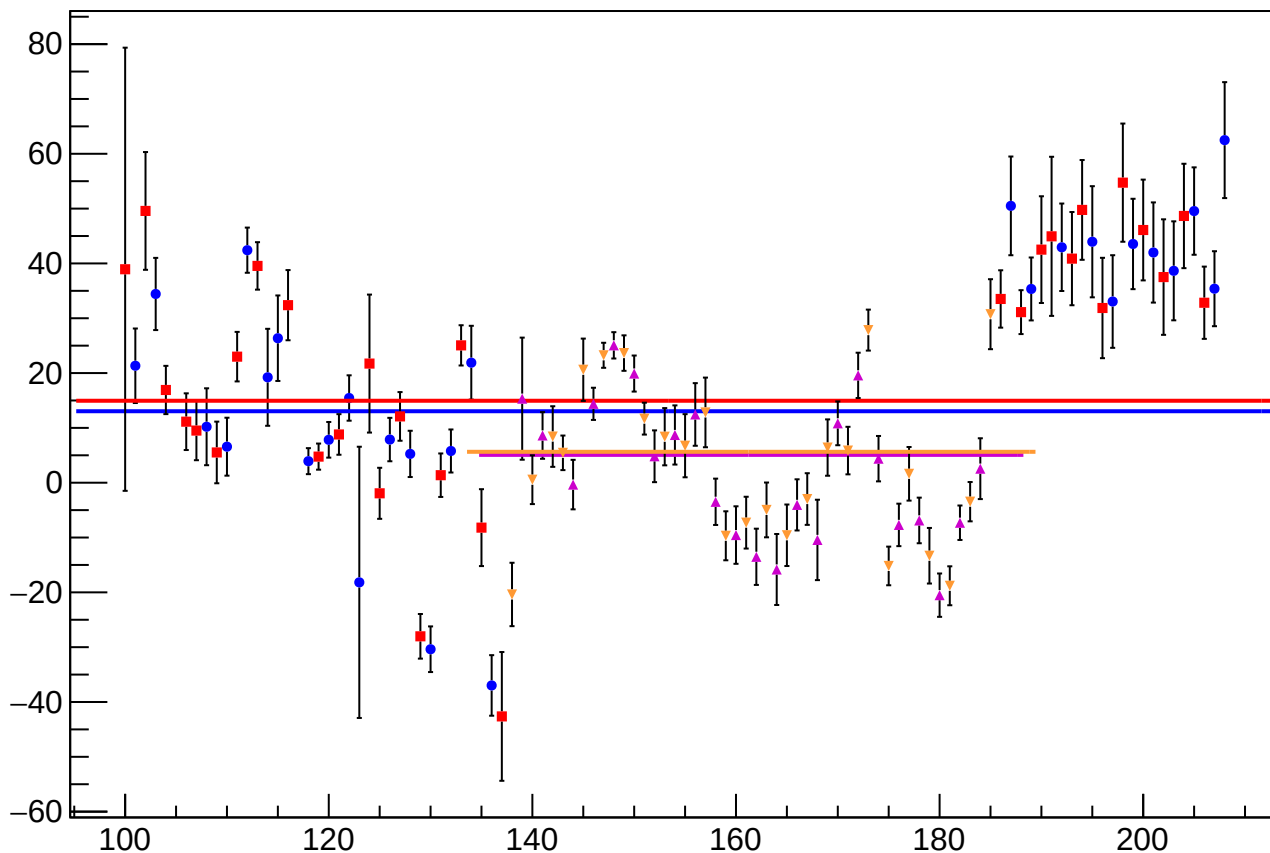
Right: -261.523 $\pm$ 1.255 χ^2/NDF : 3860.9/22

In: -237.736 $\pm$ 0.953 χ^2/NDF : 4591.6/33

Out: -238.307 $\pm$ 0.910 χ^2/NDF : 8199.0/36

All: -238.035 $\pm$ 0.658 χ^2/NDF : 12790.8/70

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.038 $\pm$ 1.007 χ^2 /NDF: 434.9/27

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 14.950 $\pm$ 0.960 χ^2 /NDF: 376.9/30

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

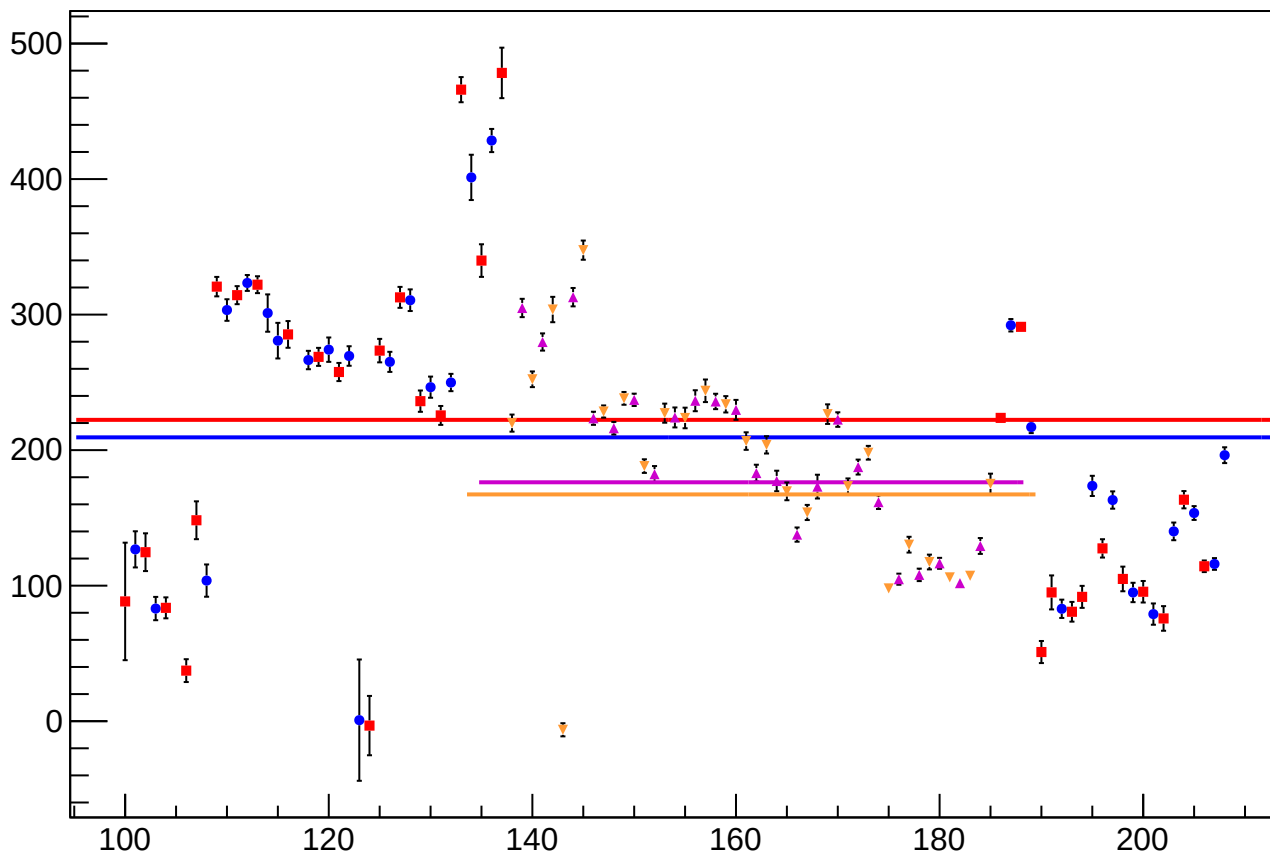
Right: 14.039 $\pm$ 0.695 χ^2 /NDF: 813.7/58

In: 8.474 $\pm$ 0.658 χ^2 /NDF:710.4/50

Out: 9.608 $\pm$ 0.627 χ^2 /NDF:744.5/55

All: 9.069 $\pm$ 0.454 χ^2 /NDF: 1456.5/106

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.427+/-1.323 χ^2/NDF : 4195.9/27

Left Out: 167.327+/-1.082 χ^2/NDF :4454.5/24

Right Out: 222.339+/-1.171 χ^2/NDF : 6570.9/30

Left In: 176.272+/-1.106 χ^2/NDF :3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

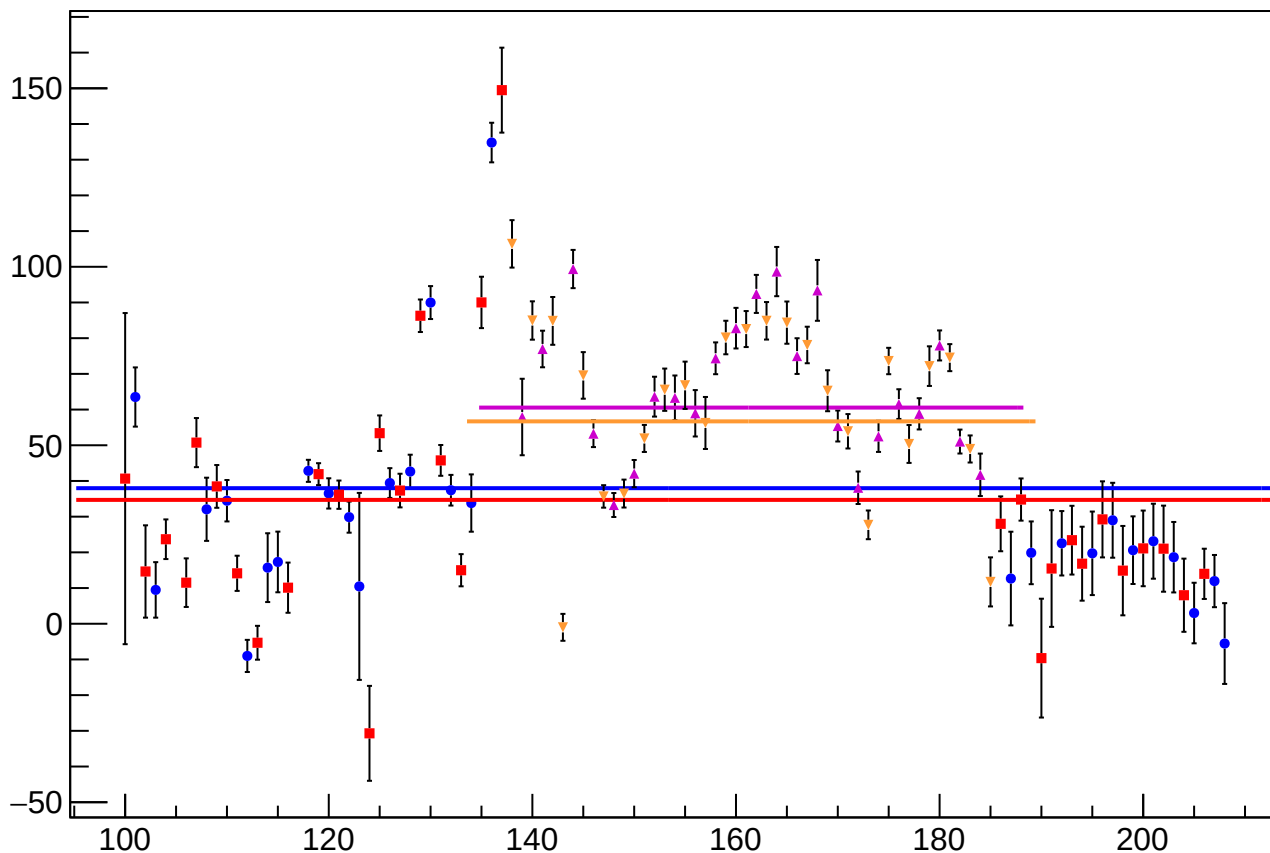
Right: 216.664+/-0.877 χ^2/NDF : 10820.3/58

In: 189.909+/-0.848 χ^2/NDF :7735.3/50

Out: 192.666+/-0.795 χ^2/NDF :12215.0/55

All: 191.377+/-0.580 χ^2/NDF : 19955.8/106

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 37.977 ± 1.169 χ^2/NDF : 652.0/27

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 34.698 ± 1.127 χ^2/NDF : 509.7/30

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

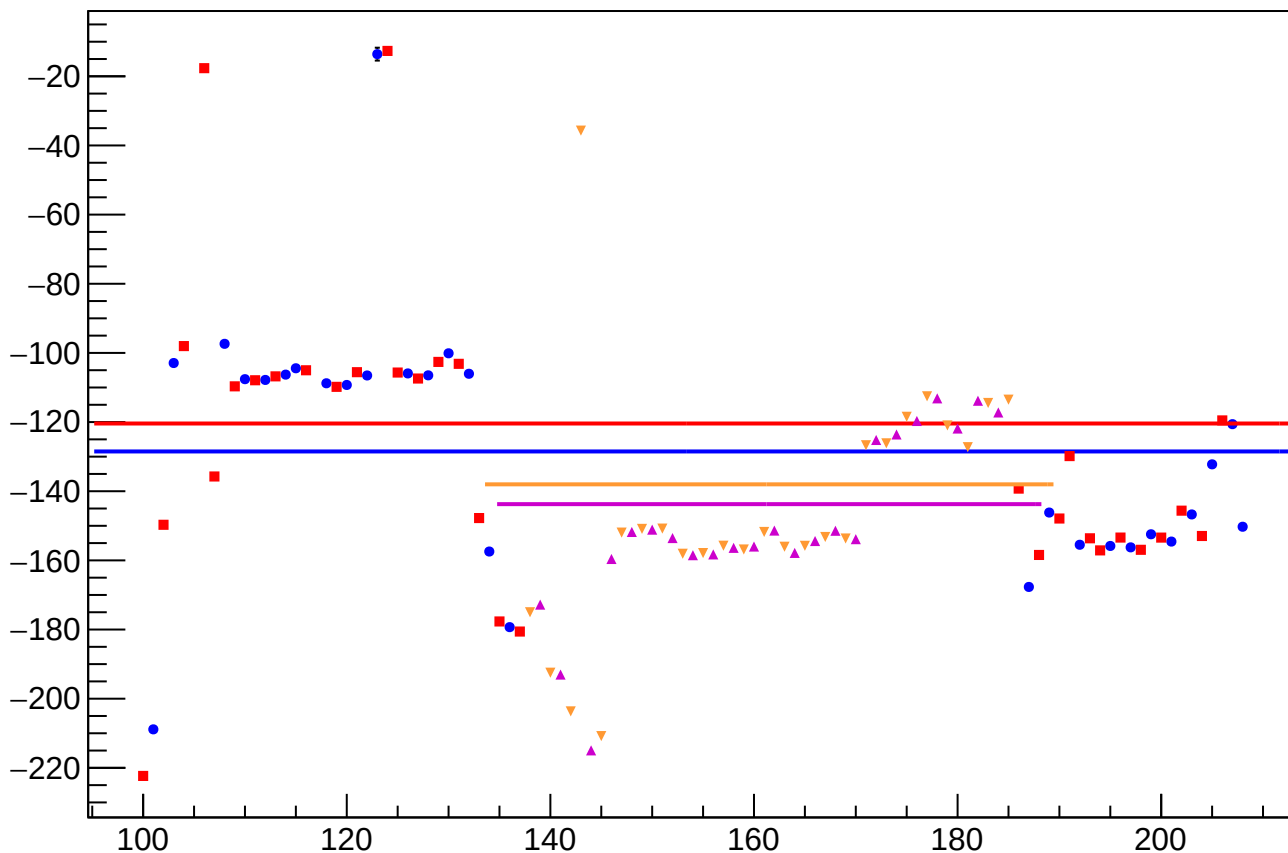
Right: 36.278 ± 0.811 χ^2/NDF : 1165.8/58

In: 51.123 ± 0.756 χ^2/NDF : 1204.9/50

Out: 47.538 ± 0.727 χ^2/NDF : 1422.4/55

All: 49.262 ± 0.524 χ^2/NDF : 2639.0/106

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.497 ± 0.062 $\chi^2/\text{NDF}: 208166.0/27$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -120.414 ± 0.059 $\chi^2/\text{NDF}: 455065.4/30$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

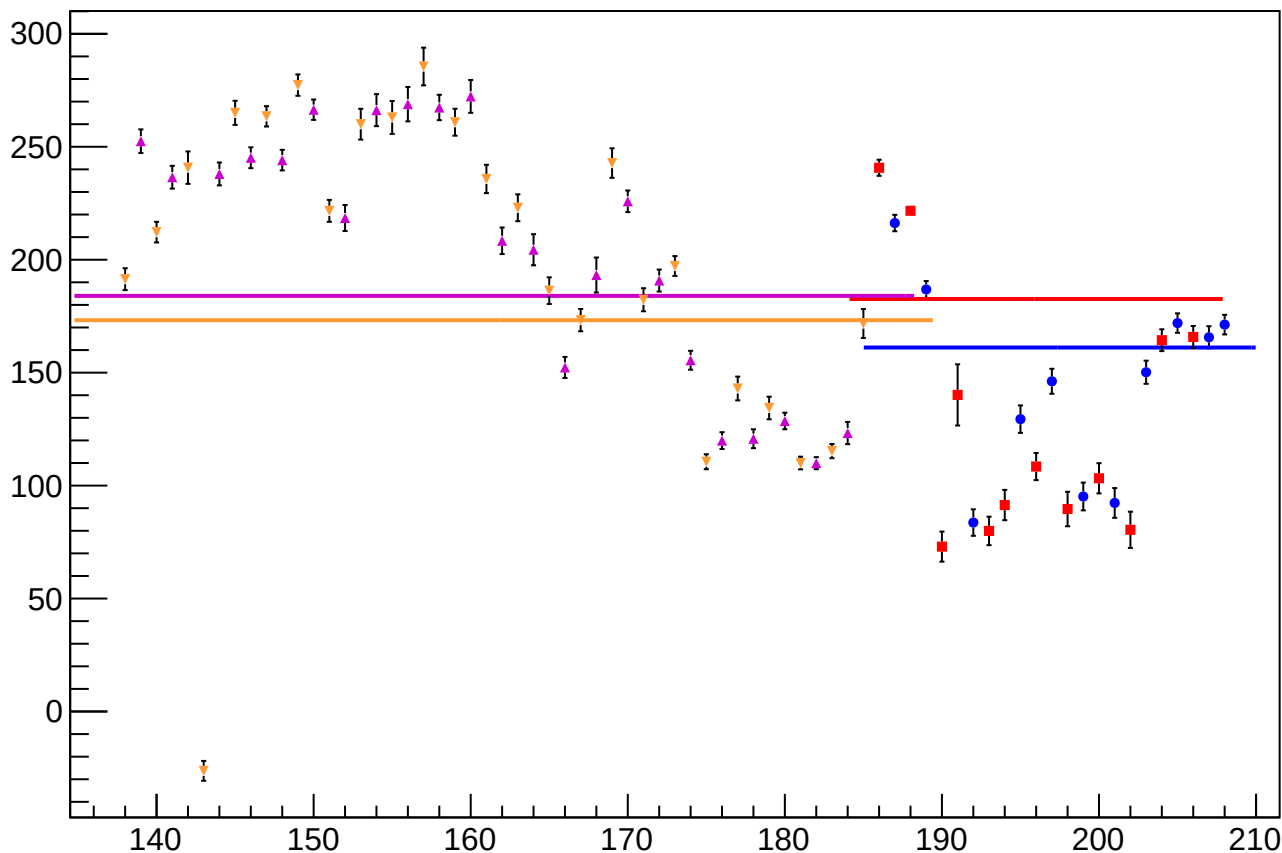
Right: -124.208 ± 0.043 $\chi^2/\text{NDF}: 672106.4/58$

In: -138.365 ± 0.037 $\chi^2/\text{NDF}: 505078.7/50$

Out: -131.483 ± 0.036 $\chi^2/\text{NDF}: 1077203.5/55$

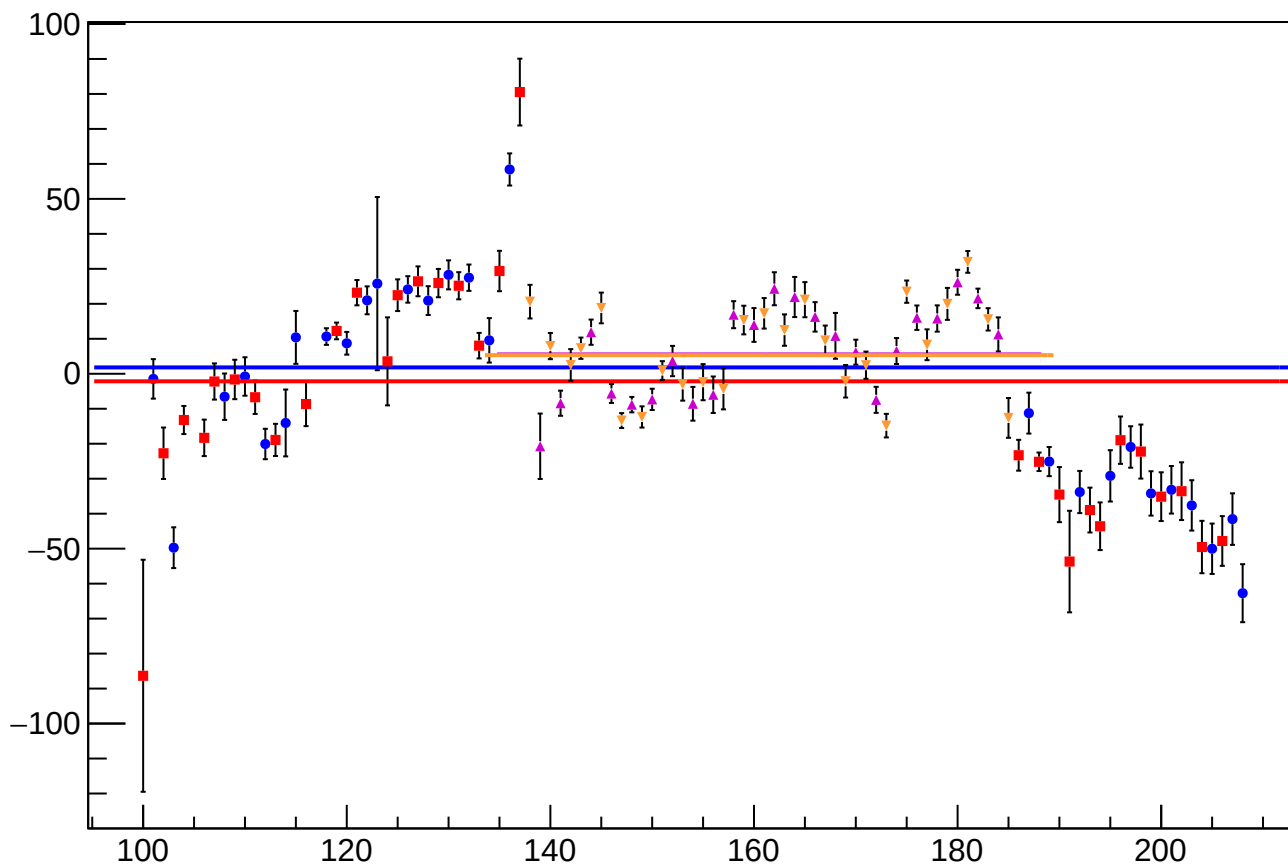
All: -134.801 ± 0.026 $\chi^2/\text{NDF}: 1600105.2/10$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 178.467 ± 0.692 $\chi^2/\text{NDF}: 9520.1/47$
 Right: 173.234 ± 0.961 $\chi^2/\text{NDF}: 2918.5/22$
 In: 176.731 ± 0.819 $\chi^2/\text{NDF}: 4511.1/33$
 Out: 176.637 ± 0.771 $\chi^2/\text{NDF}: 7946.9/36$
 All: 176.681 ± 0.561 $\chi^2/\text{NDF}: 12458.1/70$

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.818 ± 0.935 χ^2/NDF : 798.7/27

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -2.155 ± 0.883 χ^2/NDF : 746.6/30

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

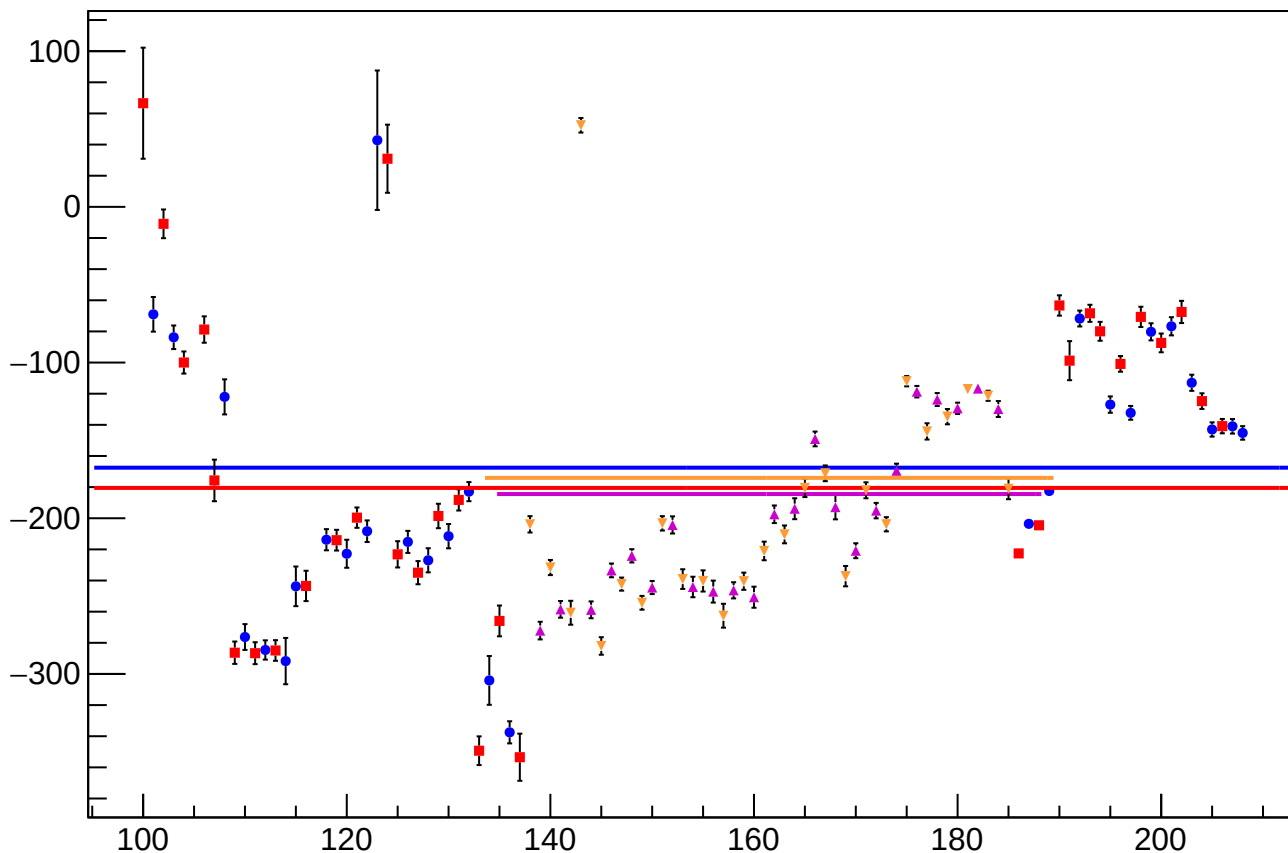
Right: -0.282 ± 0.642 χ^2/NDF : 1554.8/58

In: 4.003 ± 0.599 χ^2/NDF : 1064.3/50

Out: 2.202 ± 0.570 χ^2/NDF : 1133.9/55

All: 3.058 ± 0.413 χ^2/NDF : 2202.9/106

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -167.519 ± 1.097 χ^2/NDF : 3119.4/27

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -180.513 ± 0.943 χ^2/NDF : 4904.2/30

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

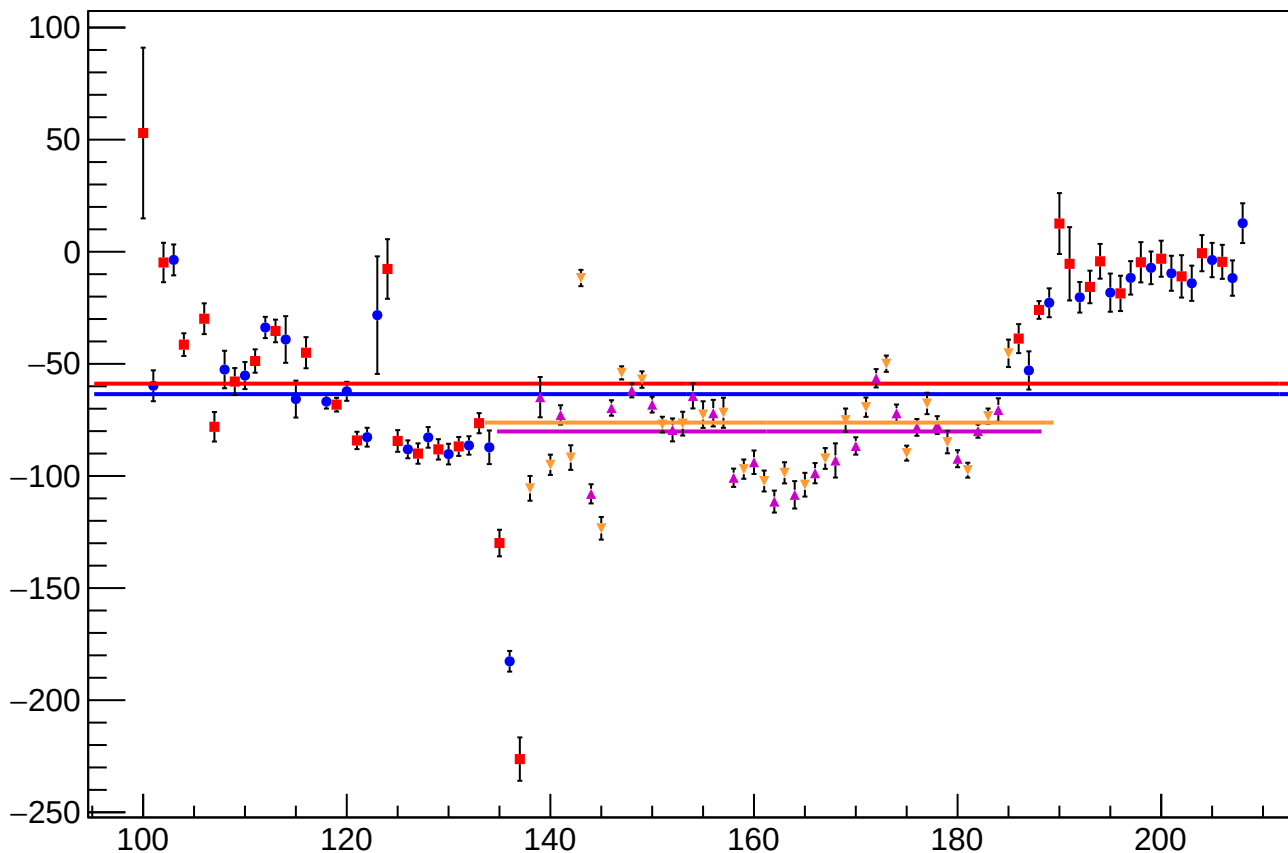
Right: -174.995 ± 0.715 χ^2/NDF : 8104.2/58

In: -176.851 ± 0.735 χ^2/NDF : 6302.2/50

Out: -177.382 ± 0.676 χ^2/NDF : 10370.2/55

All: -177.138 ± 0.498 χ^2/NDF : 16672.7/106

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -63.500 ± 1.091 $\chi^2/\text{NDF}: 1428.8/27$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -58.827 ± 1.051 $\chi^2/\text{NDF}: 1242.0/30$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

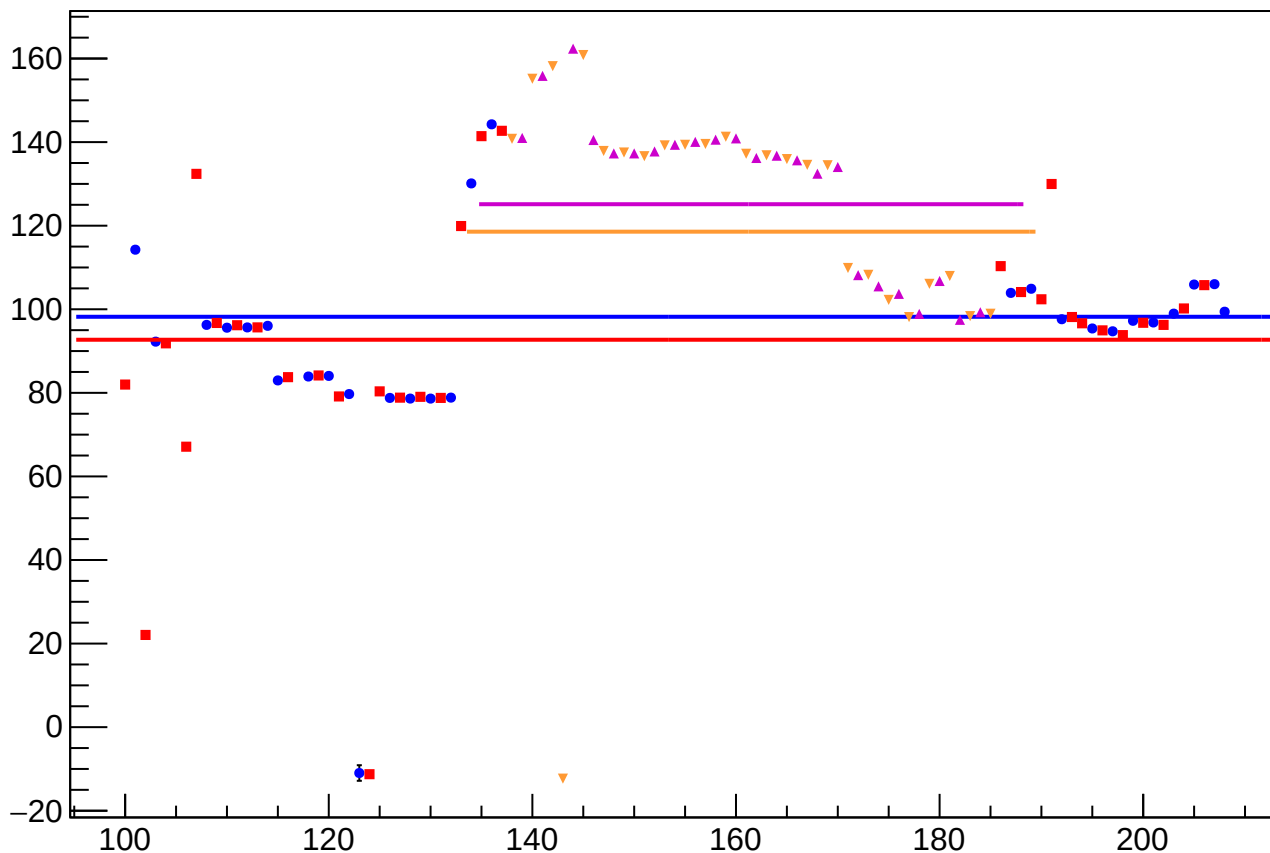
Right: -61.076 ± 0.757 $\chi^2/\text{NDF}: 2680.3/58$

In: -73.508 ± 0.689 $\chi^2/\text{NDF}: 1852.0/50$

Out: -69.249 ± 0.664 $\chi^2/\text{NDF}: 2206.7/55$

All: -71.300 ± 0.478 $\chi^2/\text{NDF}: 4078.4/106$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.205 $\pm$ 0.055 χ^2 /NDF: 96089.3/27

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.708 $\pm$ 0.052 χ^2 /NDF: 243165.7/30

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

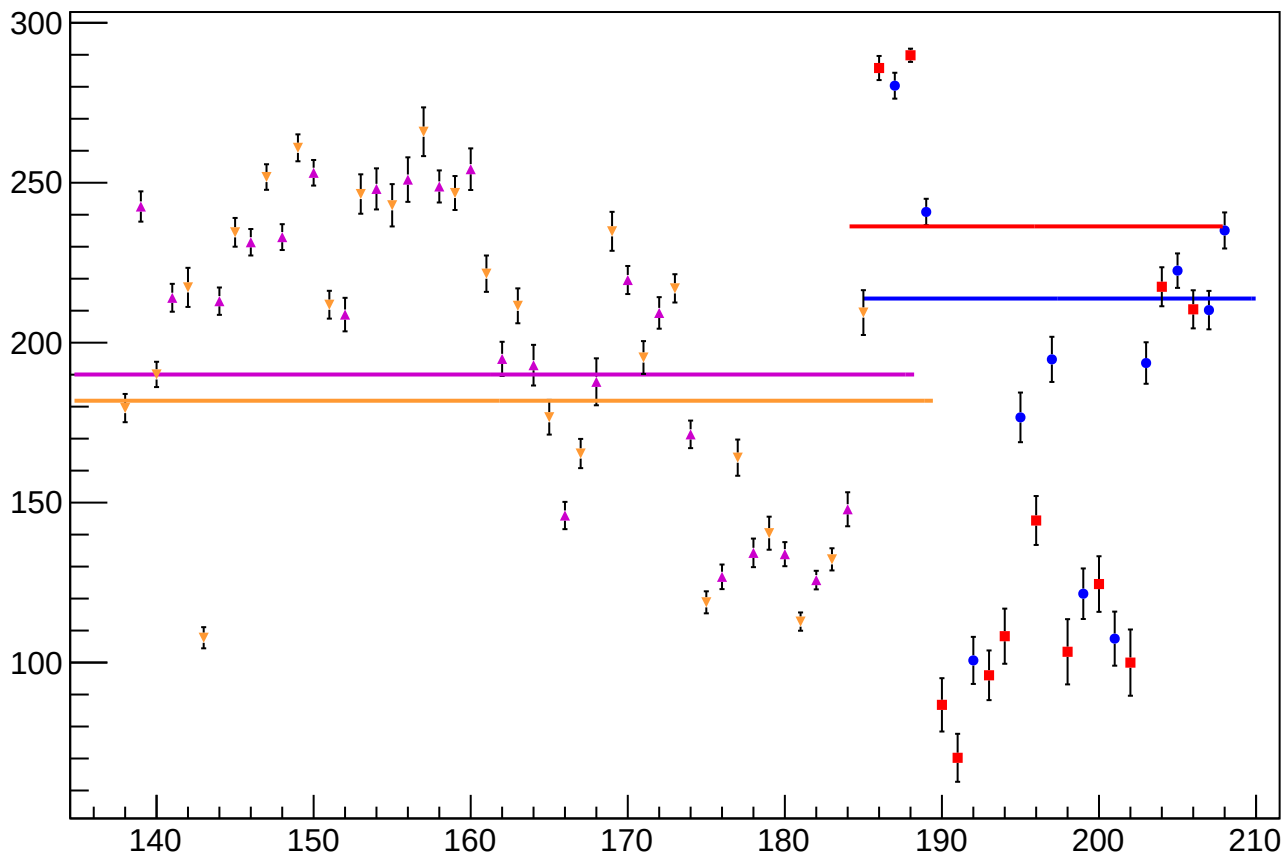
Right: 95.285 $\pm$ 0.038 χ^2 /NDF: 344571.9/58

In: 115.419 $\pm$ 0.033 χ^2 /NDF: 470631.1/50

Out: 108.716 $\pm$ 0.032 χ^2 /NDF: 1127255.4/55

All: 111.949 $\pm$ 0.023 χ^2 /NDF: 1619240.1/106

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 213.795 $\pm$ 1.760 χ^2 /NDF: 901.6/10

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 236.352 $\pm$ 1.457 χ^2 /NDF: 2883.9/11

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

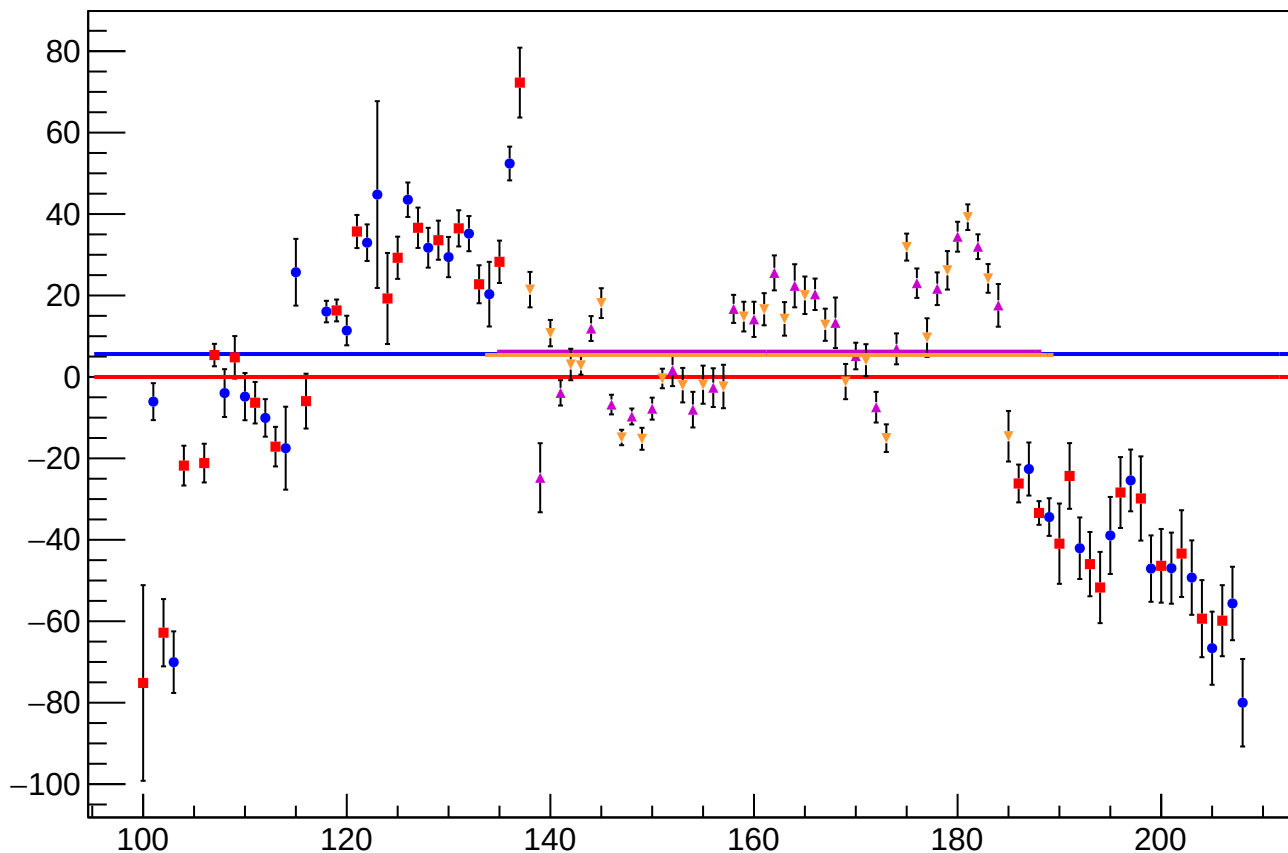
Right: 227.180 $\pm$ 1.123 χ^2 /NDF: 3883.0/22

In: 195.429 $\pm$ 0.838 χ^2 /NDF:3480.7/33

Out: 197.222 $\pm$ 0.774 χ^2 /NDF:7191.6/36

All: 196.396 $\pm$ 0.569 χ^2 /NDF: 10674.8/70

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.621 ± 1.041 χ^2/NDF : 963.9/27

Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24

Right Out: -0.010 ± 0.938 χ^2/NDF : 978.6/30

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

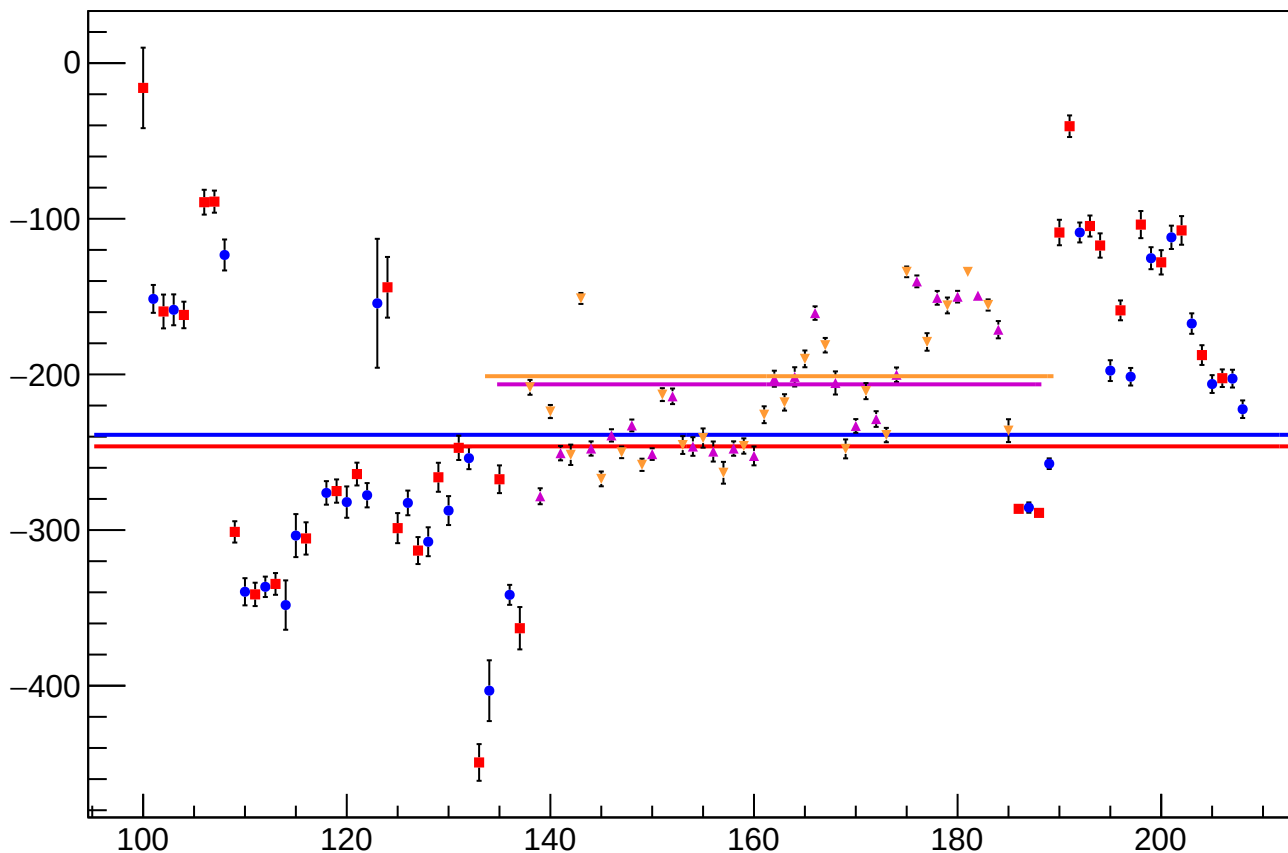
Right: 2.512 ± 0.697 χ^2/NDF : 1958.6/58

In: 6.013 ± 0.599 χ^2/NDF : 1371.6/50

Out: 3.503 ± 0.555 χ^2/NDF : 1526.6/55

All: 4.662 ± 0.407 χ^2/NDF : 2907.8/106

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.806 ± 1.274 χ^2/NDF : 2700.6/27

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -246.228 ± 1.046 χ^2/NDF : 5821.8/30

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

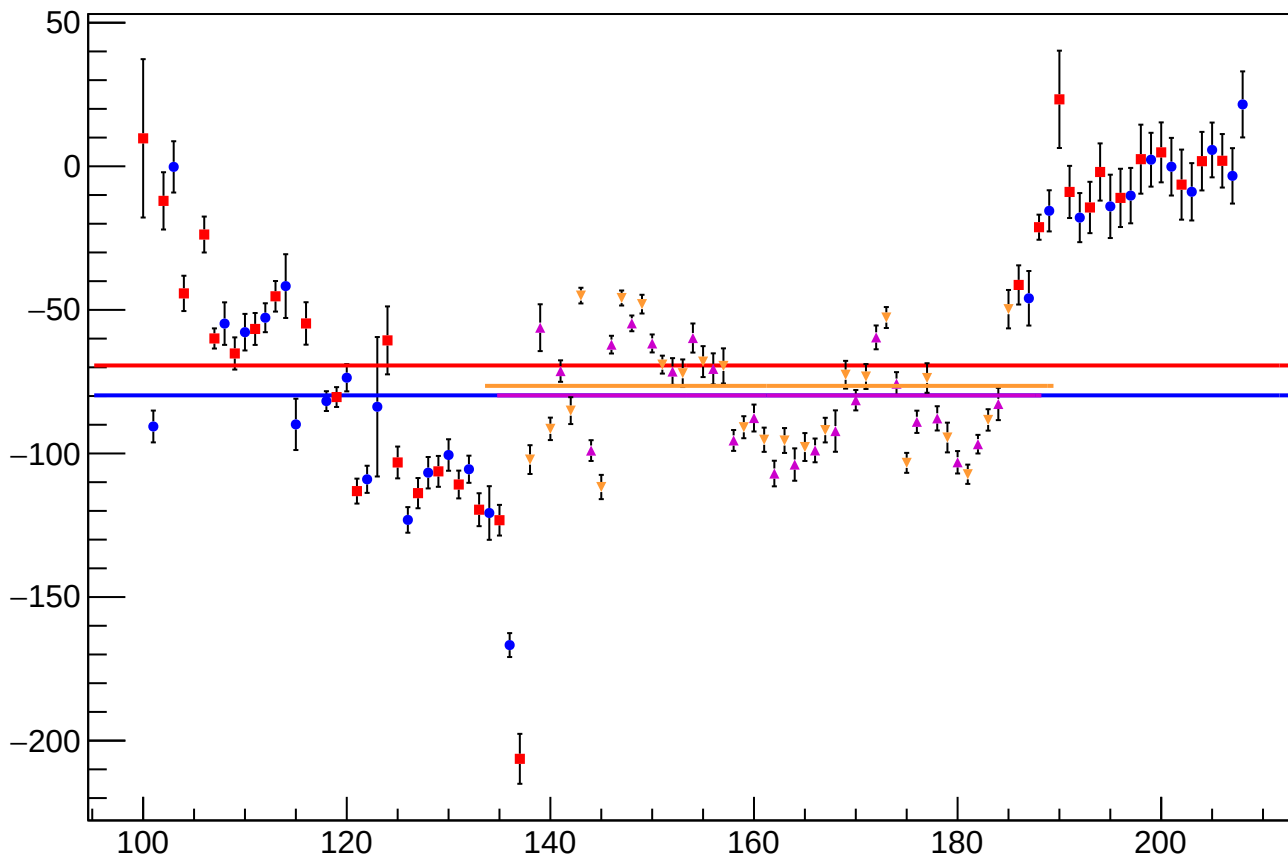
Right: -243.237 ± 0.808 χ^2/NDF : 8542.7/58

In: -217.963 ± 0.761 χ^2/NDF : 5228.8/50

Out: -220.750 ± 0.690 χ^2/NDF : 9359.8/55

All: -219.493 ± 0.511 χ^2/NDF : 14596.0/106

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -79.767 ± 1.215 $\chi^2/\text{NDF}: 1450.4/27$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -69.355 ± 1.120 $\chi^2/\text{NDF}: 1465.8/30$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

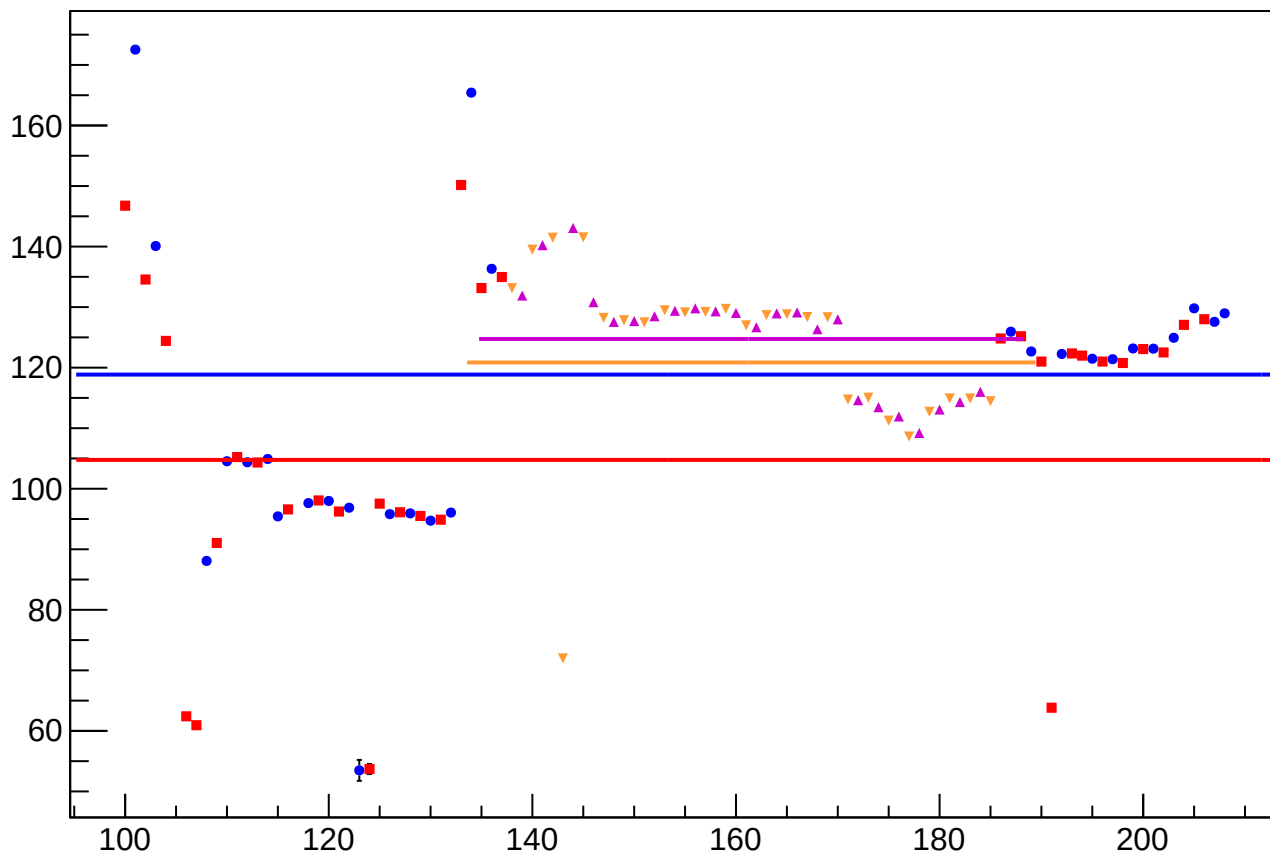
Right: -74.141 ± 0.823 $\chi^2/\text{NDF}: 2956.0/58$

In: -79.784 ± 0.691 $\chi^2/\text{NDF}: 1862.7/50$

Out: -74.073 ± 0.649 $\chi^2/\text{NDF}: 2273.9/55$

All: -76.752 ± 0.473 $\chi^2/\text{NDF}: 4172.9/106$

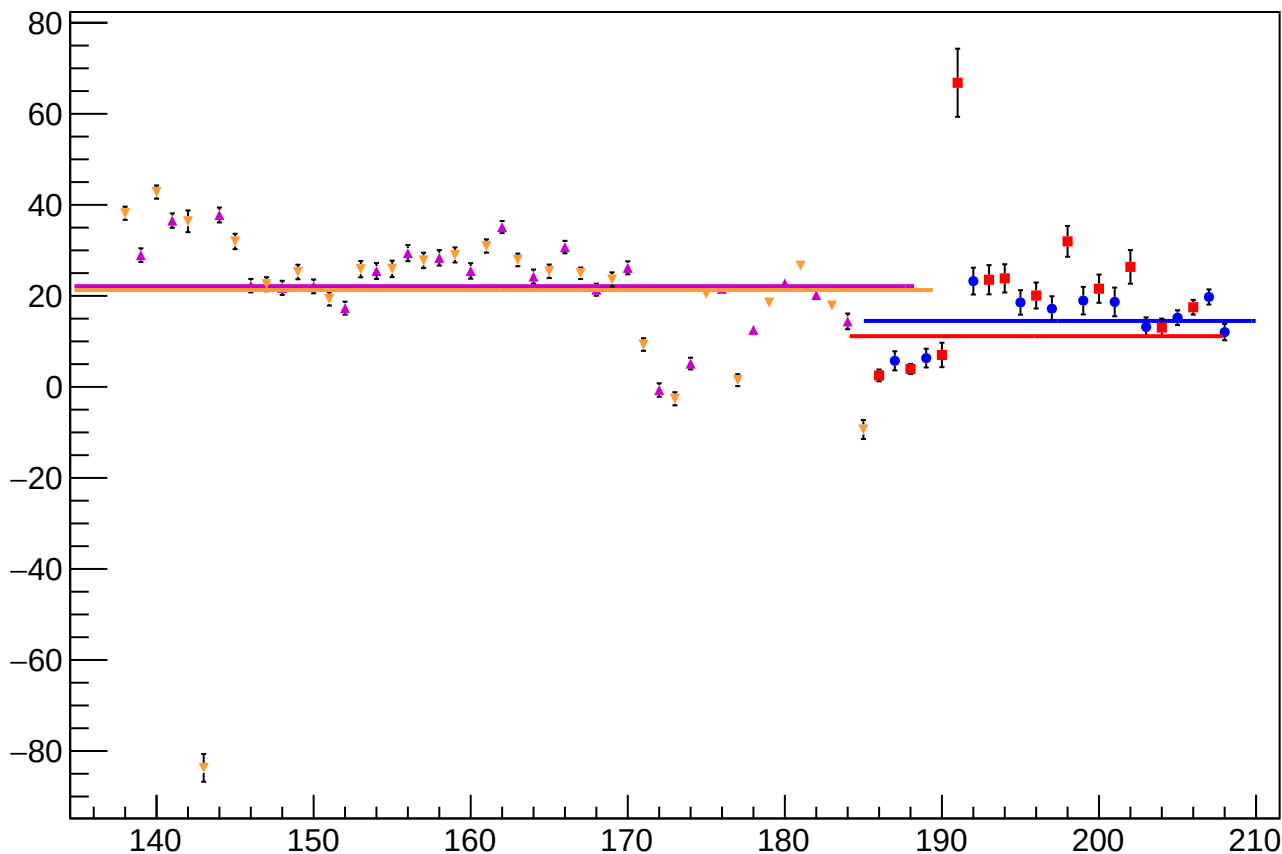
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.854 $\pm$ 0.063 χ^2 /NDF: 109914.9/27
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 104.761 $\pm$ 0.055 χ^2 /NDF: 242749.2/30
 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: 110.910 $\pm$ 0.041 χ^2 /NDF: 381241.4/58
 In: 123.077 $\pm$ 0.033 χ^2 /NDF:167556.2/50
 Out: 115.653 $\pm$ 0.031 χ^2 /NDF:483318.3/55
 All: 119.142 $\pm$ 0.023 χ^2 /NDF: 677298.0/106

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.495 $\pm$ 0.655 χ^2 /NDF: 61.7/10

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 11.145 $\pm$ 0.600 χ^2 /NDF: 267.7/11

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

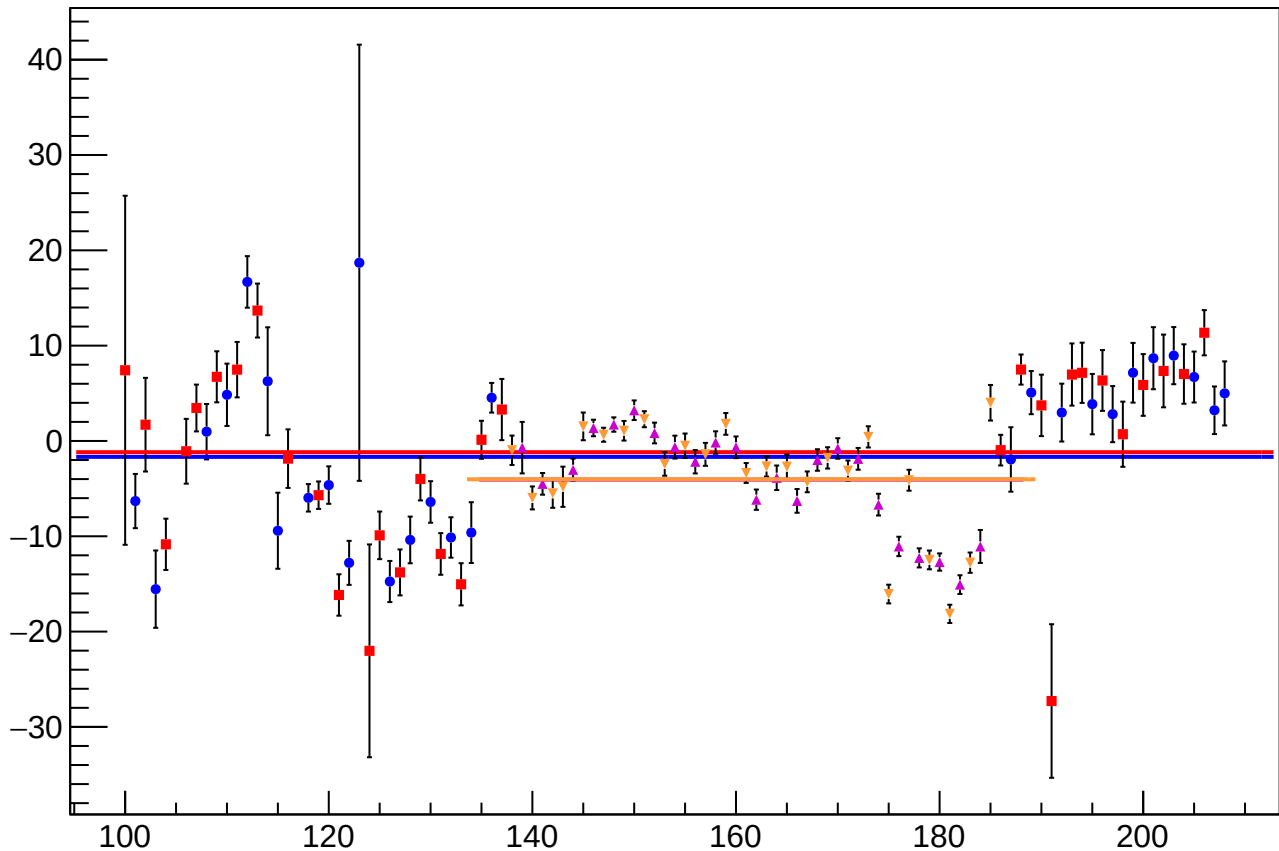
Right: 12.673 $\pm$ 0.442 χ^2 /NDF: 343.6/22

In: 20.907 $\pm$ 0.262 χ^2 /NDF:1076.2/33

Out: 19.441 $\pm$ 0.255 χ^2 /NDF:3102.1/36

All: 20.156 $\pm$ 0.183 χ^2 /NDF: 4194.4/70

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.669 ± 0.489 $\chi^2/\text{NDF}: 263.0/27$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -1.176 ± 0.464 $\chi^2/\text{NDF}: 336.2/30$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

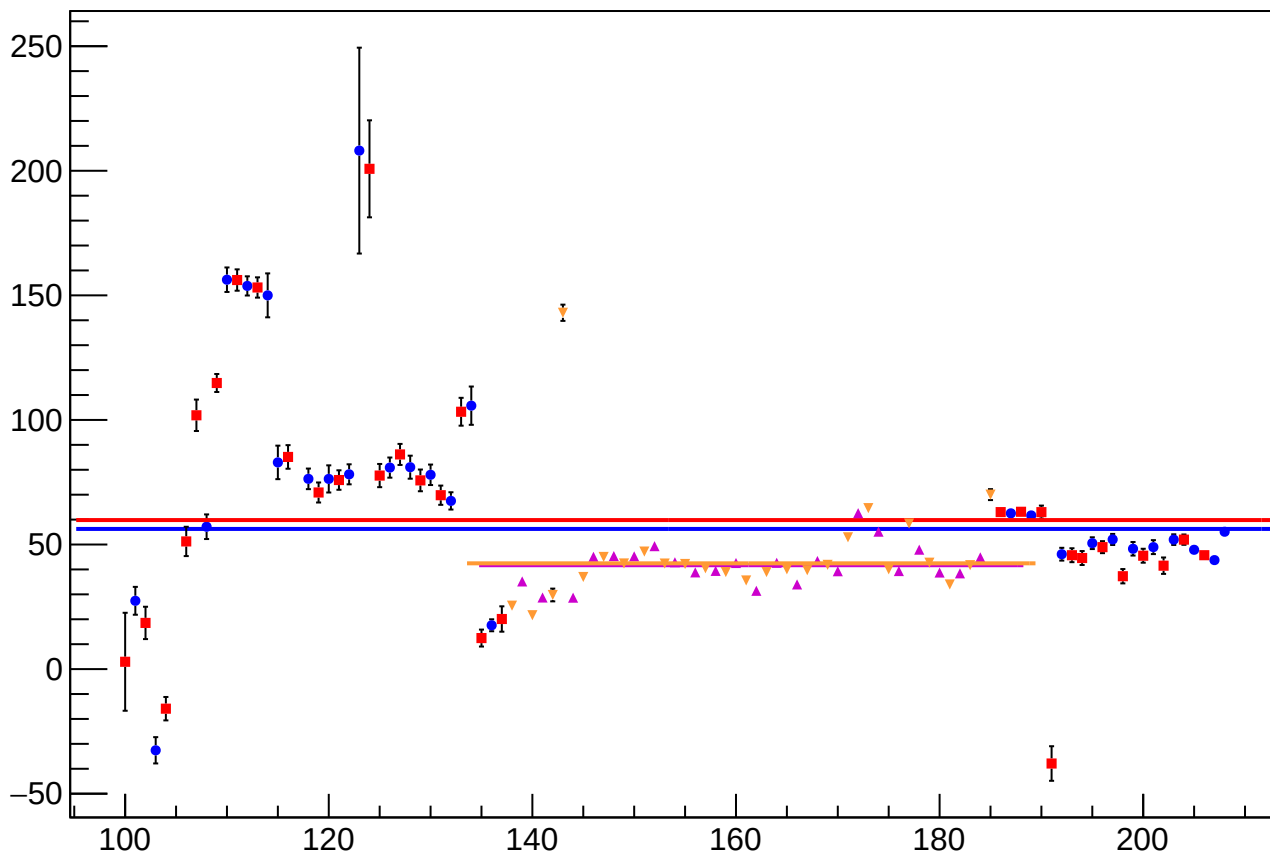
Right: -1.410 ± 0.337 $\chi^2/\text{NDF}: 599.8/58$

In: -3.631 ± 0.207 $\chi^2/\text{NDF}: 859.9/50$

Out: -3.488 ± 0.201 $\chi^2/\text{NDF}: 1100.9/55$

All: -3.558 ± 0.144 $\chi^2/\text{NDF}: 1961.0/106$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.254+/-0.529 χ^2/NDF : 2134.3/27

Left Out: 42.452+/-0.282 χ^2/NDF : 2016.0/24

Right Out: 59.816+/-0.465 χ^2/NDF : 2627.7/30

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

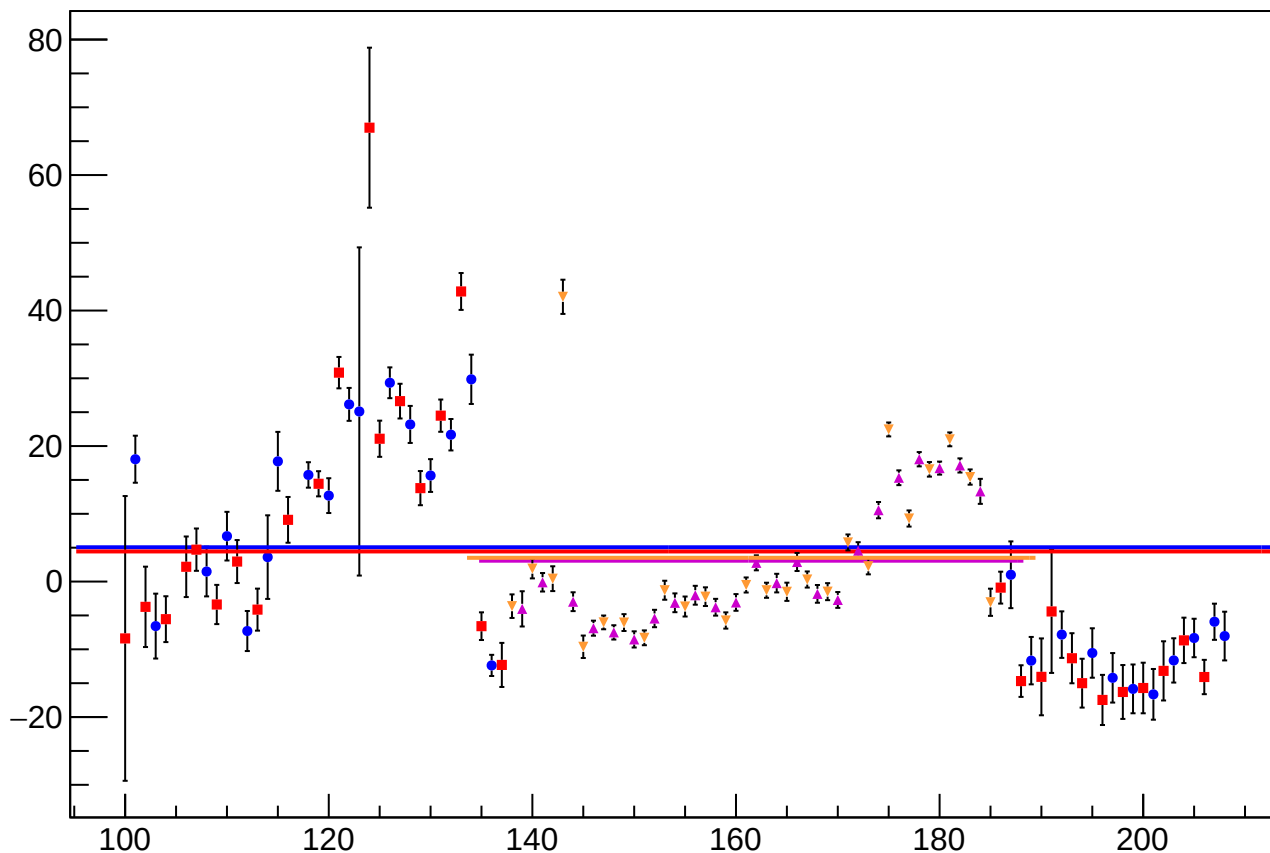
Right: 58.263+/-0.349 χ^2/NDF : 4787.6/58

In: 44.958+/-0.250 χ^2/NDF : 3353.1/50

Out: 47.120+/-0.241 χ^2/NDF : 5663.4/55

All: 46.080+/-0.174 χ^2/NDF : 9055.2/106

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.060 $\pm$ 0.560 χ^2 /NDF: 793.4/27

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 4.445 $\pm$ 0.549 χ^2 /NDF: 975.7/30

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

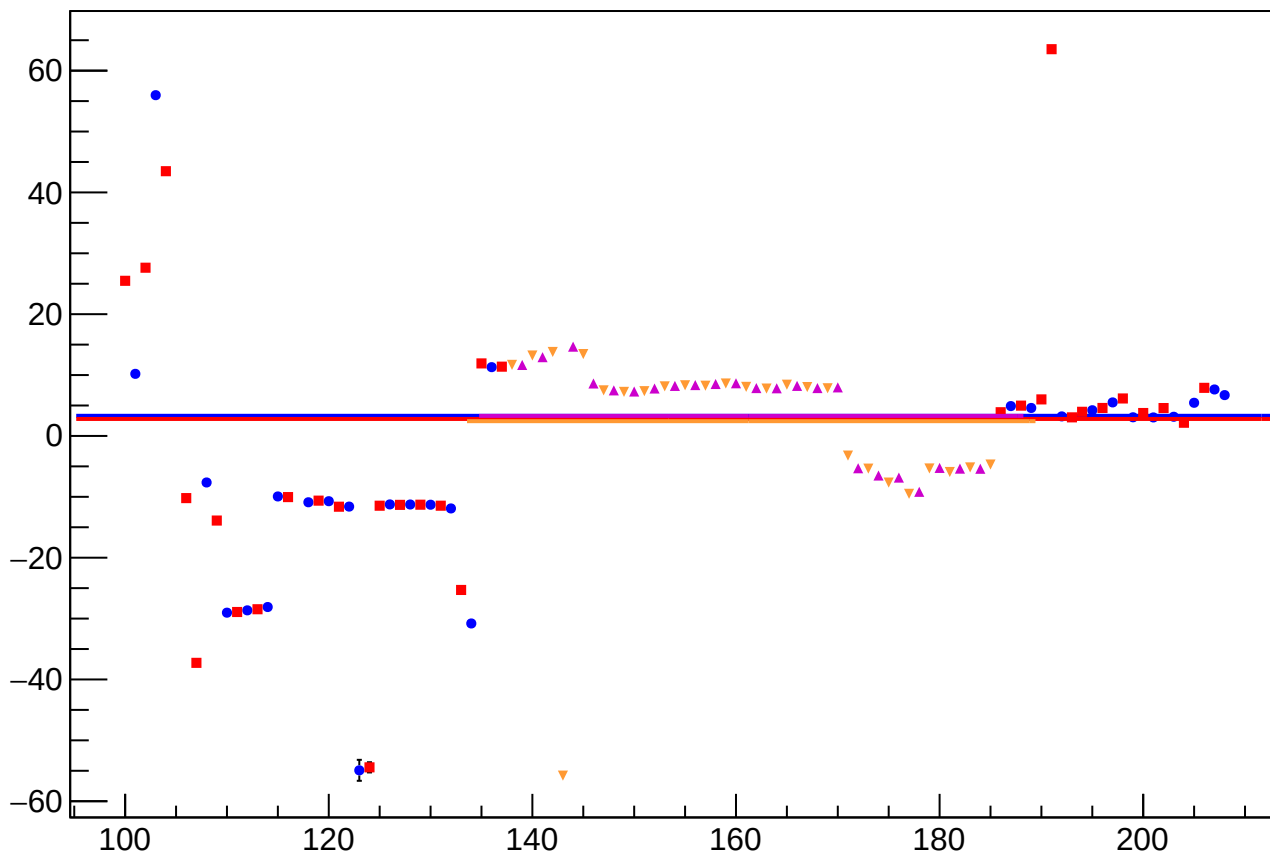
Right: 4.746 $\pm$ 0.392 χ^2 /NDF: 1769.8/58

In: 3.426 $\pm$ 0.234 χ^2 /NDF:2069.5/50

Out: 3.669 $\pm$ 0.229 χ^2 /NDF:2669.4/55

All: 3.550 $\pm$ 0.164 χ^2 /NDF: 4739.4/106

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.308 $\pm$ 0.026 χ^2 /NDF: 362267.9/27

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF:616382.5/24

Right Out: 2.790 $\pm$ 0.026 χ^2 /NDF: 434254.1/30

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

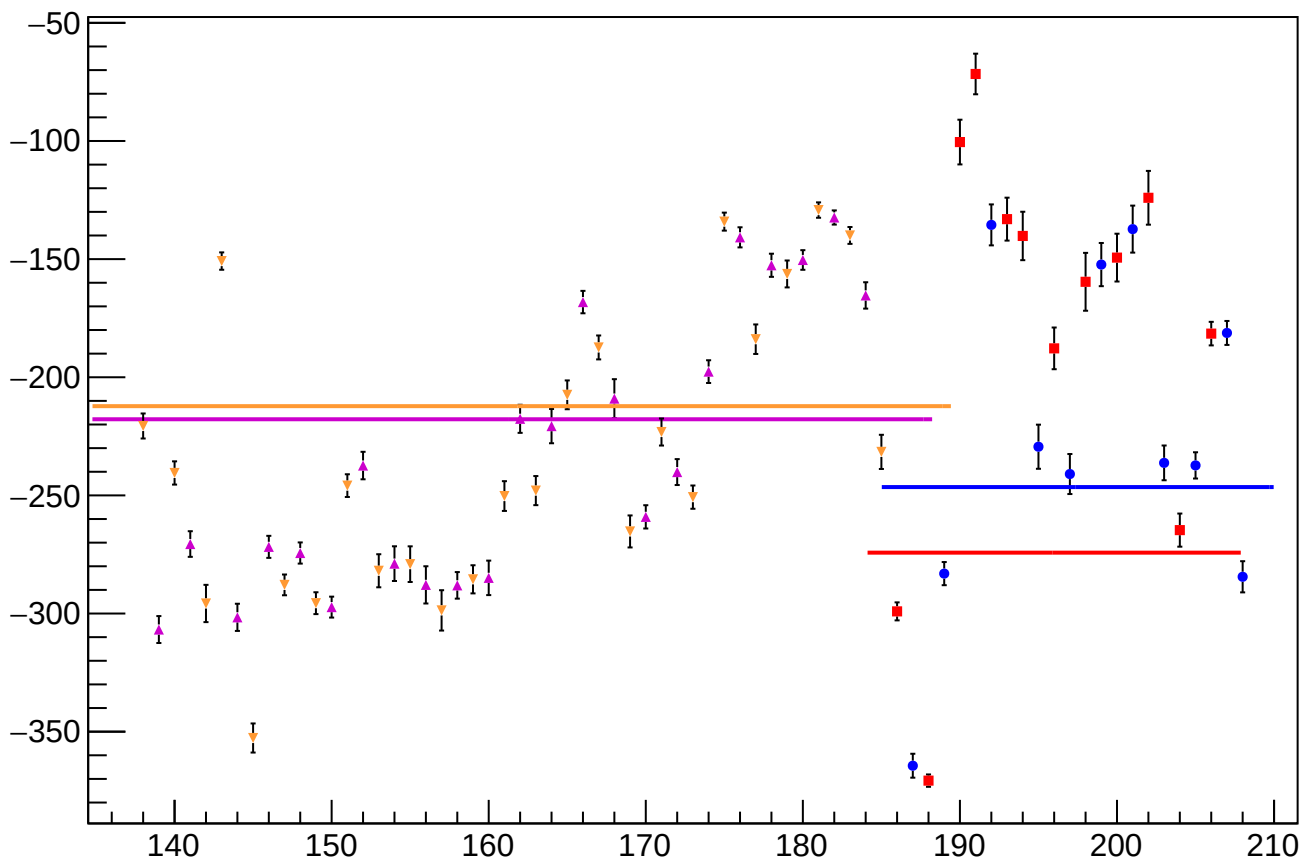
Right: 3.046 $\pm$ 0.018 χ^2 /NDF: 796720.9/58

In: 3.295 $\pm$ 0.011 χ^2 /NDF:766592.0/50

Out: 2.486 $\pm$ 0.011 χ^2 /NDF:1050803.3/55

All: 2.887 $\pm$ 0.007 χ^2 /NDF: 1820307.6/106

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -246.477+/-1.983 χ^2/NDF : 1196.2/10

Left Out: -212.231+/-1.029 χ^2/NDF : 3875.4/24

Right Out: -274.233+/-1.668 χ^2/NDF : 3570.6/11

Left In: -217.779+/-1.067 χ^2/NDF : 3448.9/22

Left: -214.906+/-0.741 χ^2/NDF : 7338.3/47

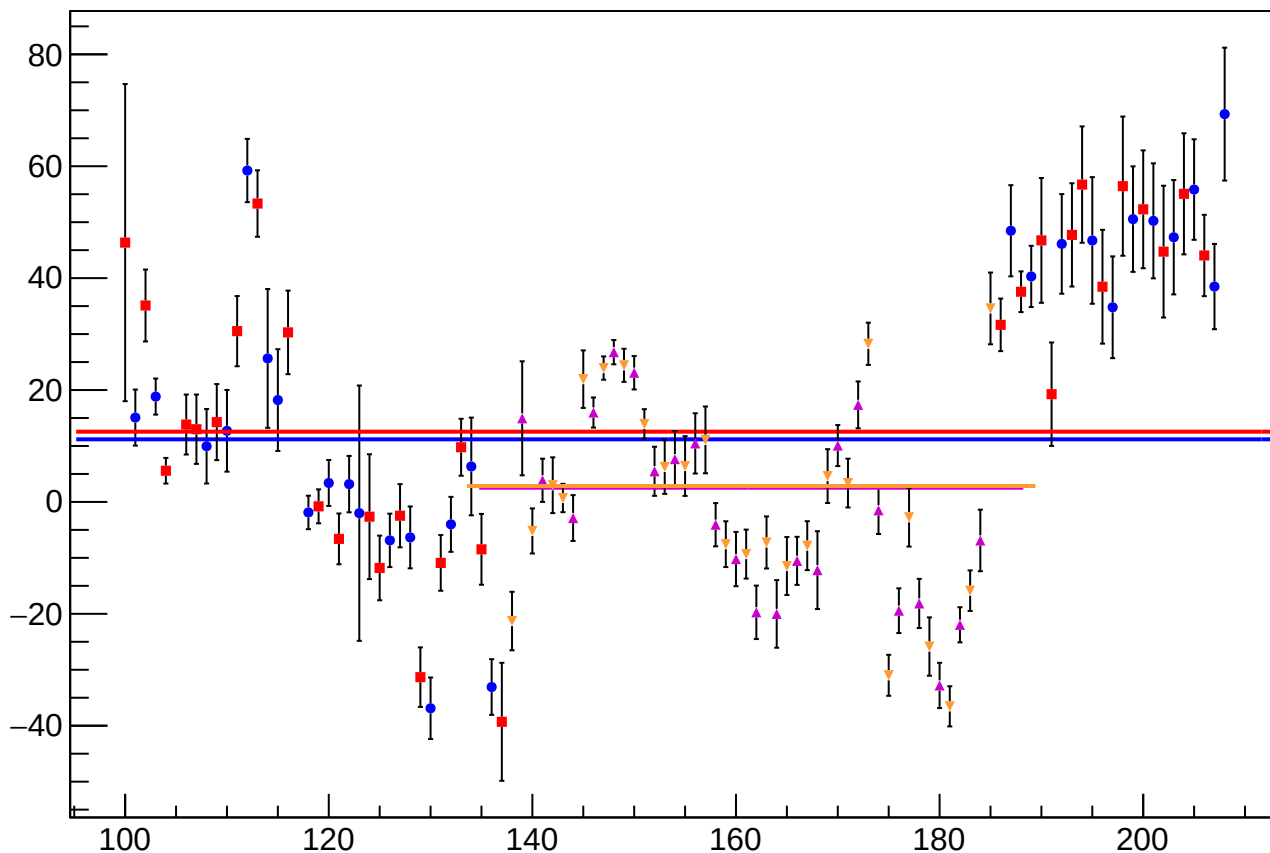
Right: -262.735+/-1.277 χ^2/NDF : 4881.5/22

In: -224.218+/-0.940 χ^2/NDF : 4807.5/33

Out: -229.332+/-0.876 χ^2/NDF : 8446.6/36

All: -226.954+/-0.641 χ^2/NDF : 13269.9/70

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.189 $\pm$ 1.124 χ^2 /NDF: 483.0/27

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF:582.1/24

Right Out: 12.556 $\pm$ 1.017 χ^2 /NDF: 454.8/30

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF:473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

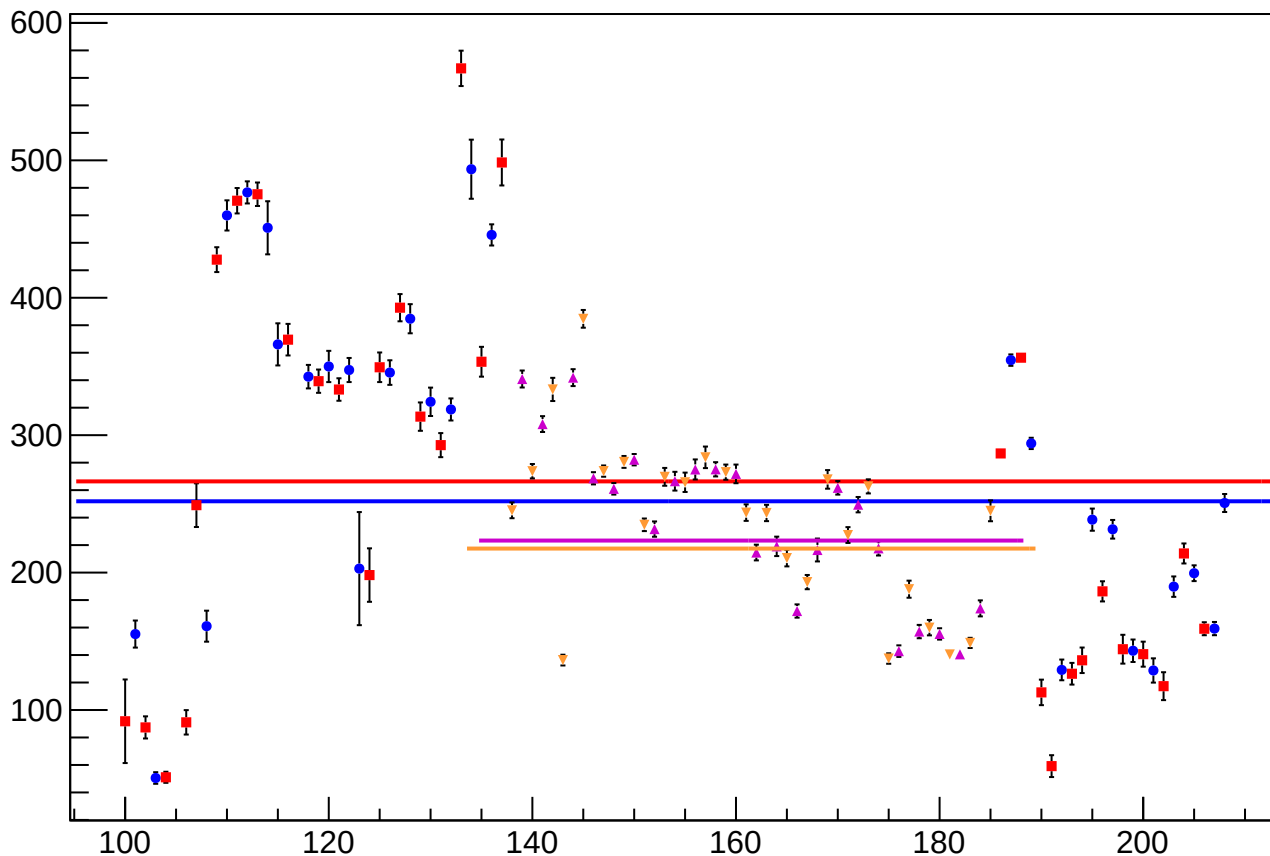
Right: 11.940 $\pm$ 0.754 χ^2 /NDF: 938.6/58

In: 5.558 $\pm$ 0.664 χ^2 /NDF:995.2/50

Out: 6.412 $\pm$ 0.616 χ^2 /NDF:1094.6/55

All: 6.017 $\pm$ 0.452 χ^2 /NDF: 2090.7/106

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 251.890 $\pm$ 1.388 χ^2/NDF : 7067.8/27

Left Out: 217.484 $\pm$ 1.032 χ^2/NDF : 3769.5/24

Right Out: 266.365 $\pm$ 1.168 χ^2/NDF : 11030.7/30

Left In: 223.309 $\pm$ 1.062 χ^2/NDF : 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2/NDF : 7163.0/47

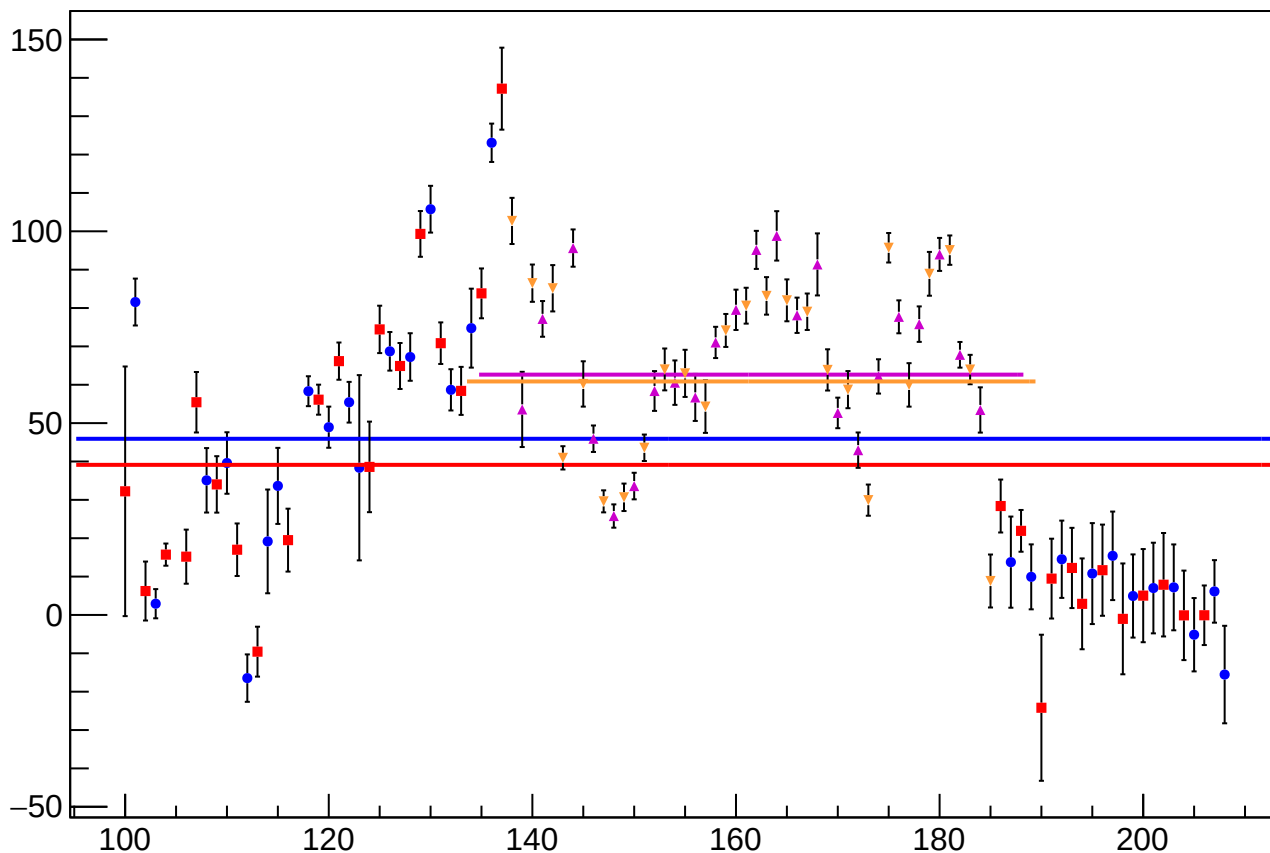
Right: 260.364 $\pm$ 0.893 χ^2/NDF : 18162.2/58

In: 233.865 $\pm$ 0.843 χ^2/NDF : 10713.3/50

Out: 238.931 $\pm$ 0.773 χ^2/NDF : 15783.9/55

All: 236.617 $\pm$ 0.570 χ^2/NDF : 26516.8/106

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.918 ± 1.311 χ^2/NDF : 827.7/27

Left Out: 60.863 ± 0.897 χ^2/NDF : 731.6/24

Right Out: 39.124 ± 1.219 χ^2/NDF : 661.4/30

Left In: 62.640 ± 0.943 χ^2/NDF : 515.4/22

Left: 61.707 ± 0.650 χ^2/NDF : 1248.9/47

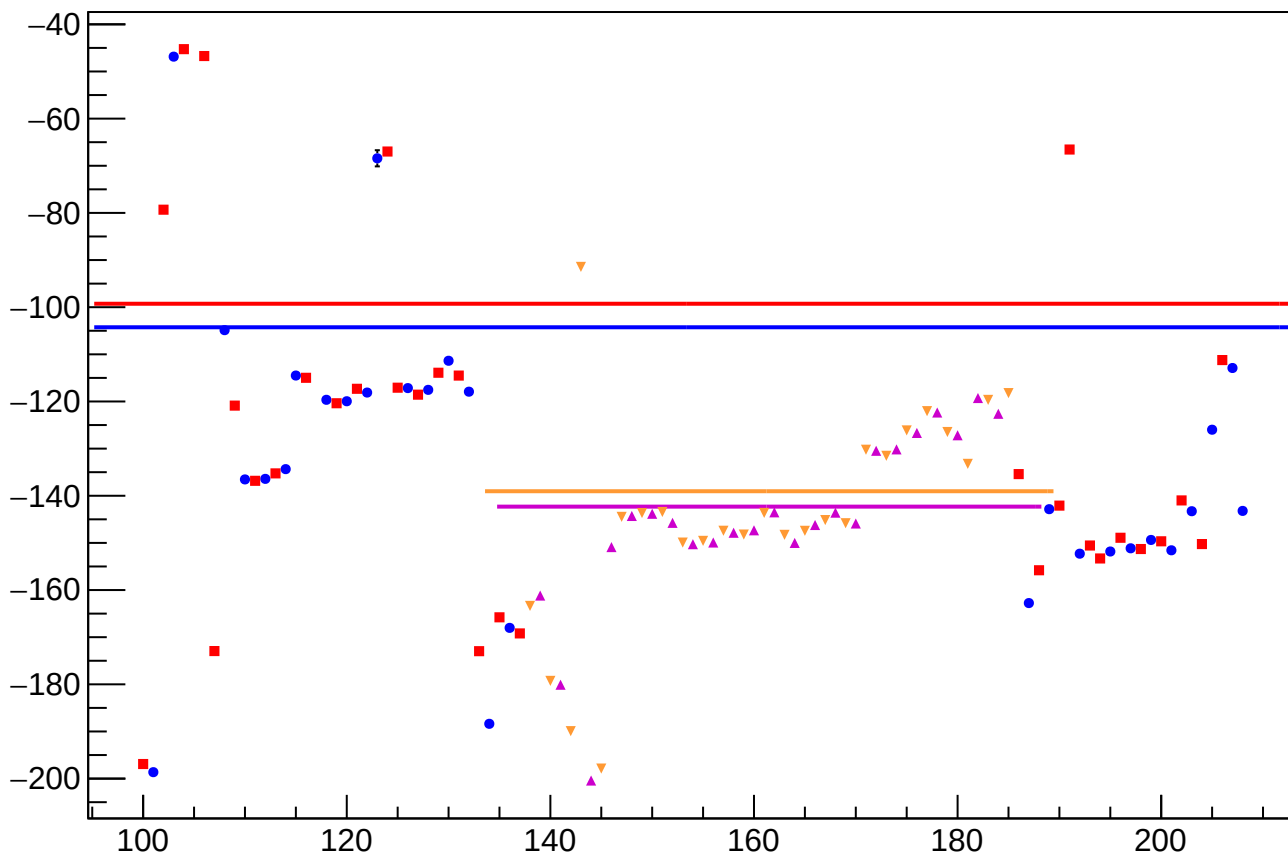
Right: 42.275 ± 0.893 χ^2/NDF : 1503.5/58

In: 56.941 ± 0.765 χ^2/NDF : 1450.4/50

Out: 53.234 ± 0.722 χ^2/NDF : 1599.3/55

All: 54.980 ± 0.525 χ^2/NDF : 3062.1/106

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -104.259+/-0.058 χ^2/NDF : 699283.0/27

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -99.269+/-0.055 χ^2/NDF : 728477.6/30

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

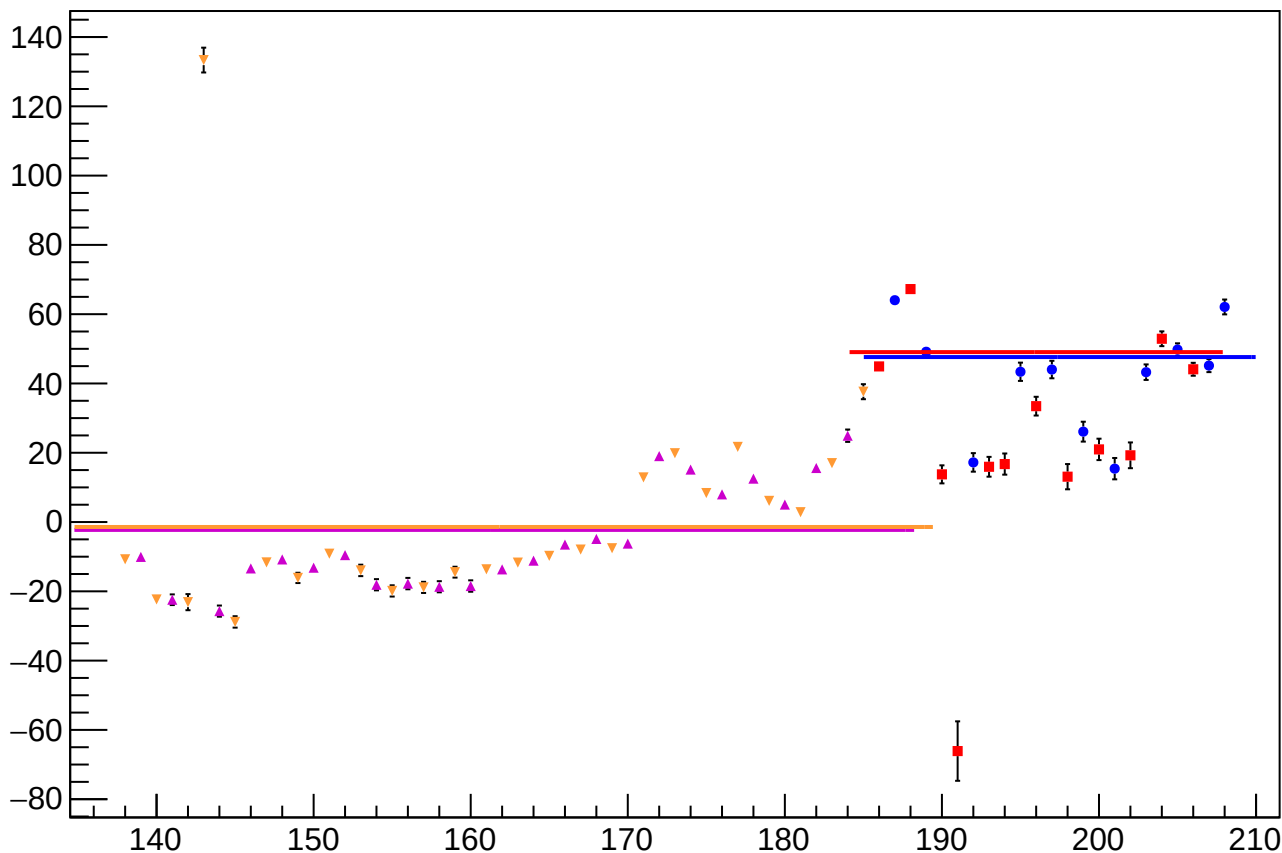
Right: -101.623+/-0.040 χ^2/NDF : 1431622.9/58

In: -128.486+/-0.035 χ^2/NDF : 1113255.7/50

Out: -124.060+/-0.034 χ^2/NDF : 1310771.8/55

All: -126.188+/-0.024 χ^2/NDF : 2432248.0/100

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 47.622 ± 0.613 $\chi^2/\text{NDF}: 491.7/10$

Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$

Right Out: 49.052 ± 0.483 $\chi^2/\text{NDF}: 1472.7/11$

Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$

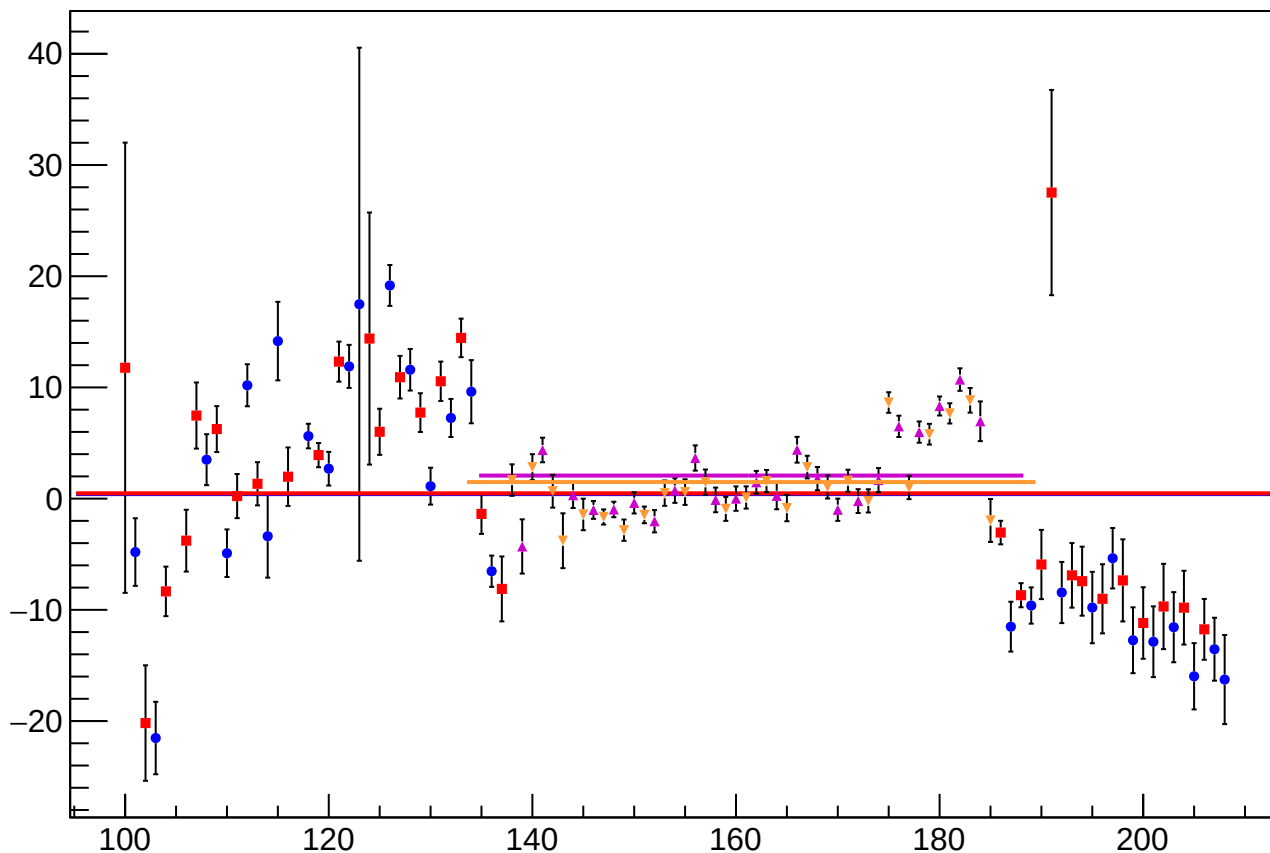
Right: 48.505 ± 0.379 $\chi^2/\text{NDF}: 1967.8/22$

In: 5.863 ± 0.248 $\chi^2/\text{NDF}: 8548.9/33$

Out: 10.443 ± 0.234 $\chi^2/\text{NDF}: 14177.2/36$

All: 8.282 ± 0.170 $\chi^2/\text{NDF}: 22906.8/70$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.406 ± 0.407 $\chi^2/\text{NDF}: 565.2/27$

Left Out: 1.491 ± 0.210 $\chi^2/\text{NDF}: 259.1/24$

Right Out: 0.478 ± 0.375 $\chi^2/\text{NDF}: 436.2/30$

Left In: 2.075 ± 0.215 $\chi^2/\text{NDF}: 274.6/22$

Left: 1.776 ± 0.150 $\chi^2/\text{NDF}: 537.4/47$

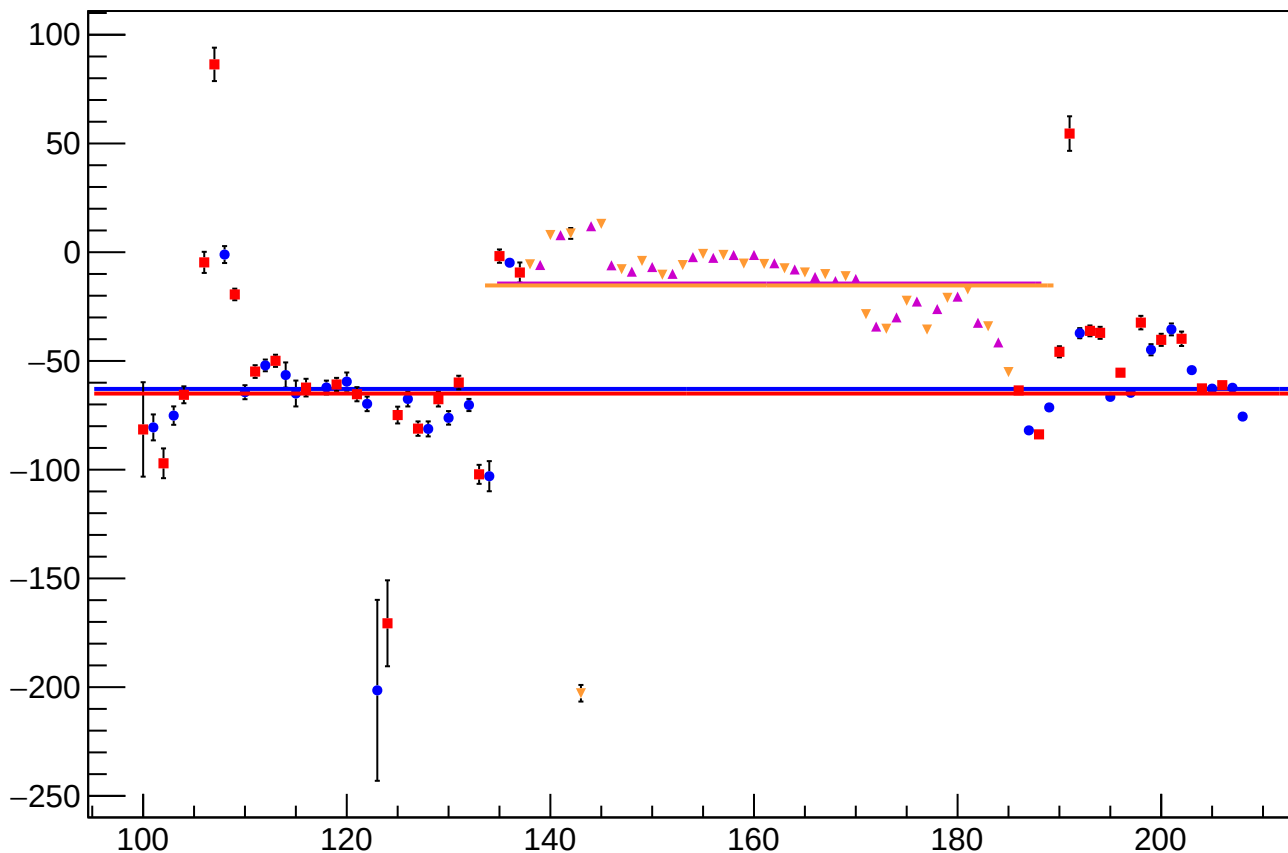
Right: 0.445 ± 0.276 $\chi^2/\text{NDF}: 1001.4/58$

In: 1.709 ± 0.190 $\chi^2/\text{NDF}: 852.9/50$

Out: 1.249 ± 0.183 $\chi^2/\text{NDF}: 700.9/55$

All: 1.471 ± 0.132 $\chi^2/\text{NDF}: 1556.8/106$

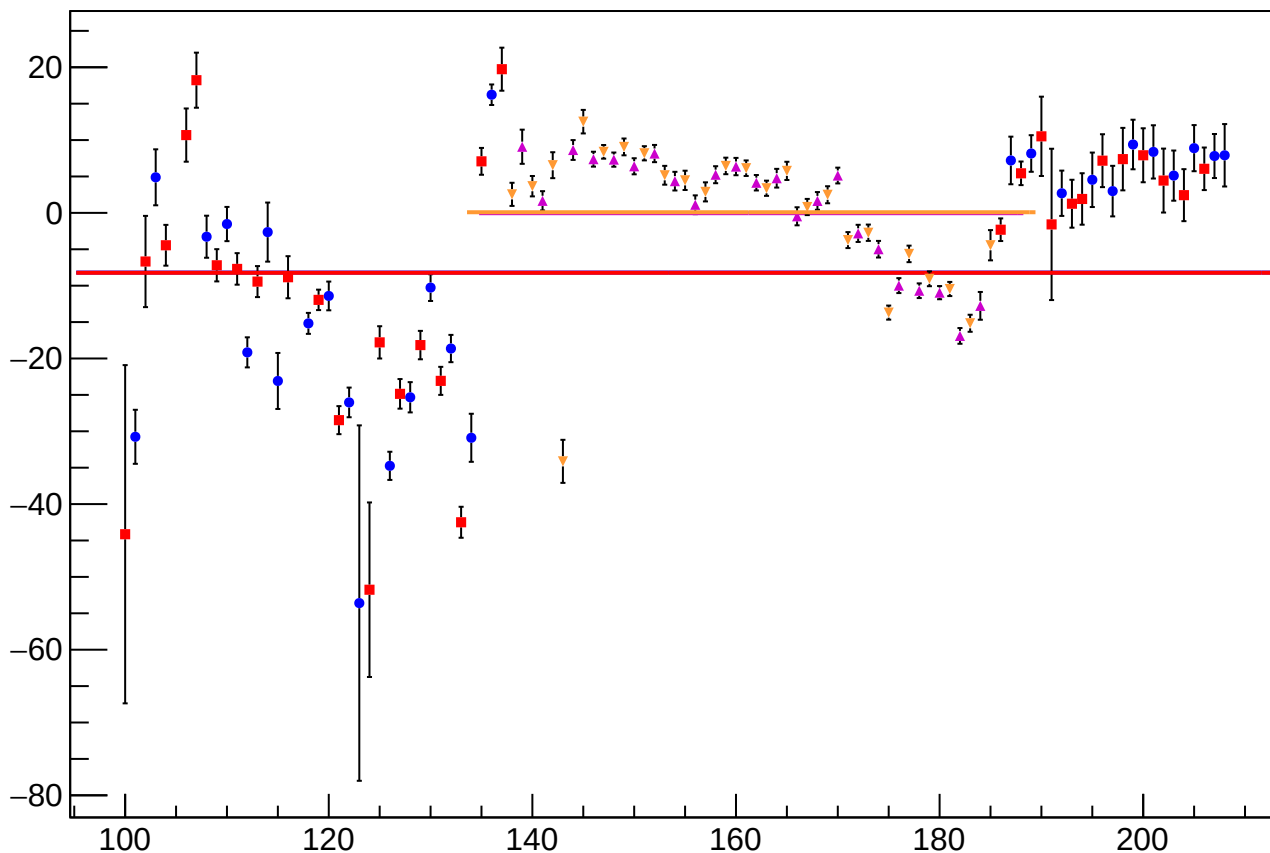
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.864 $\pm$ 0.463 χ^2 /NDF: 1760.3/27
 Left Out: -15.279 $\pm$ 0.267 χ^2 /NDF: 4820.1/24
 Right Out: -64.991 $\pm$ 0.364 χ^2 /NDF: 3307.6/30
 Left In: -14.406 $\pm$ 0.269 χ^2 /NDF: 2032.4/22

Left: -14.846 $\pm$ 0.189 χ^2 /NDF: 6857.8/47
 Right: -64.177 $\pm$ 0.286 χ^2 /NDF: 5080.9/58
 In: -26.655 $\pm$ 0.233 χ^2 /NDF: 11989.1/50
 Out: -32.625 $\pm$ 0.215 χ^2 /NDF: 20242.0/55
 All: -29.871 $\pm$ 0.158 χ^2 /NDF: 32585.8/106

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.199 ± 0.473 χ^2/NDF : 1078.7/27

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.228 ± 0.451 χ^2/NDF : 1005.4/30

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

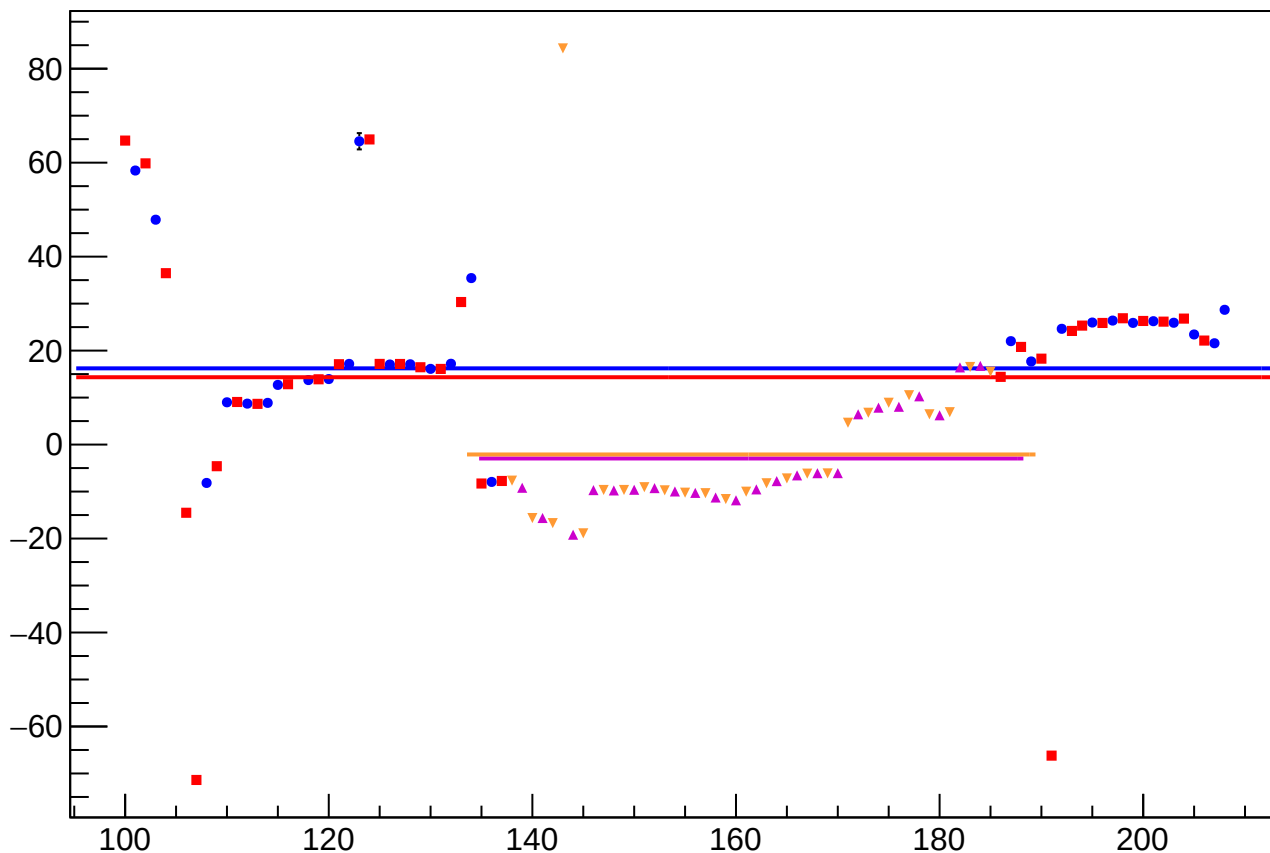
Right: -8.214 ± 0.326 χ^2/NDF : 2084.1/58

In: -1.750 ± 0.216 χ^2/NDF : 2342.4/50

Out: -1.725 ± 0.211 χ^2/NDF : 2443.1/55

All: -1.737 ± 0.151 χ^2/NDF : 4785.5/106

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.224 $\pm$ 0.023 χ^2 /NDF: 474987.4/27

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 14.332 $\pm$ 0.023 χ^2 /NDF: 747899.7/30

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF: 763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

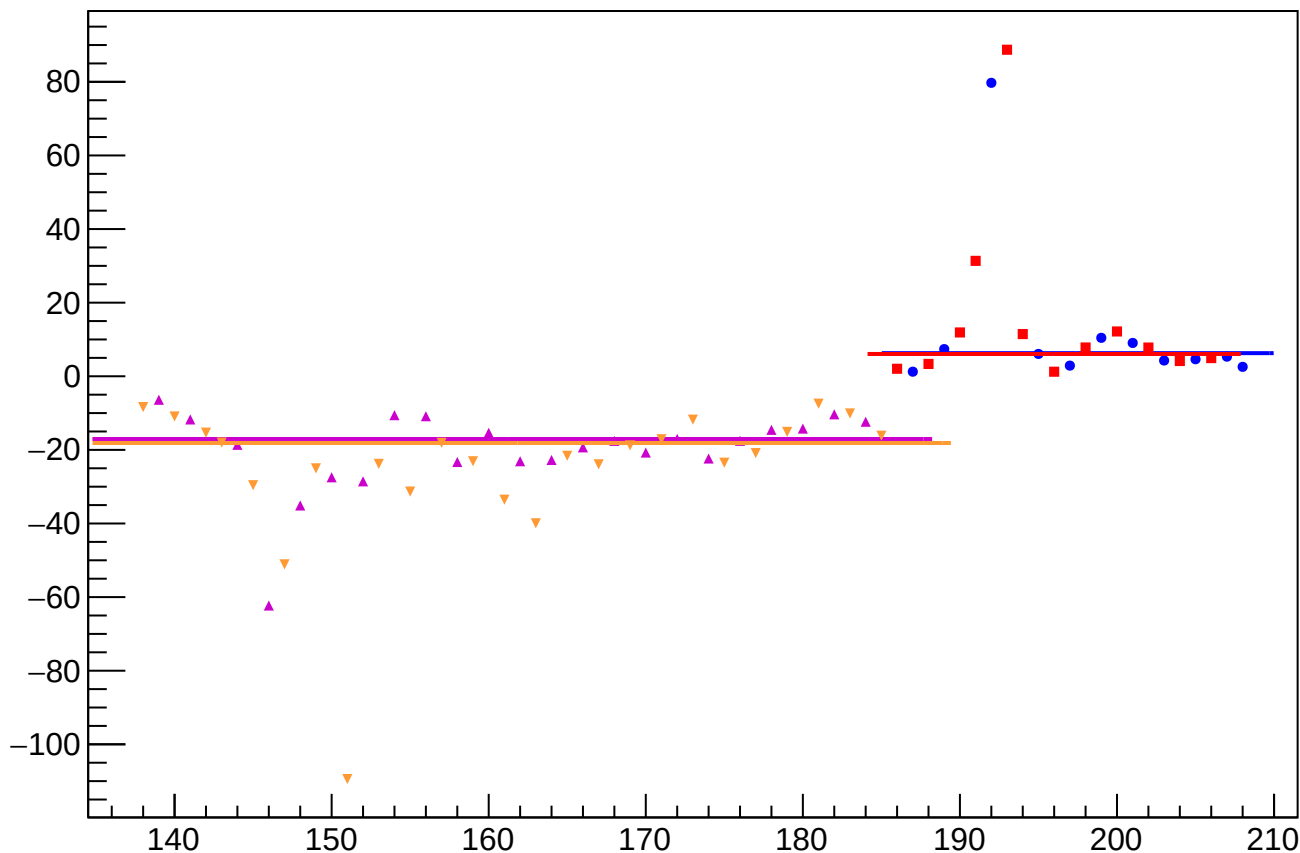
Right: 15.260 $\pm$ 0.016 χ^2 /NDF: 1226204.9/58

In: 0.504 $\pm$ 0.010 χ^2 /NDF: 1786843.2/50

Out: 0.920 $\pm$ 0.010 χ^2 /NDF: 2257858.2/55

All: 0.714 $\pm$ 0.007 χ^2 /NDF: 4045582.7/106

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.284 ± 0.060 $\chi^2/\text{NDF}: 25777.8/10$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 6.061 ± 0.060 $\chi^2/\text{NDF}: 25805.9/11$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

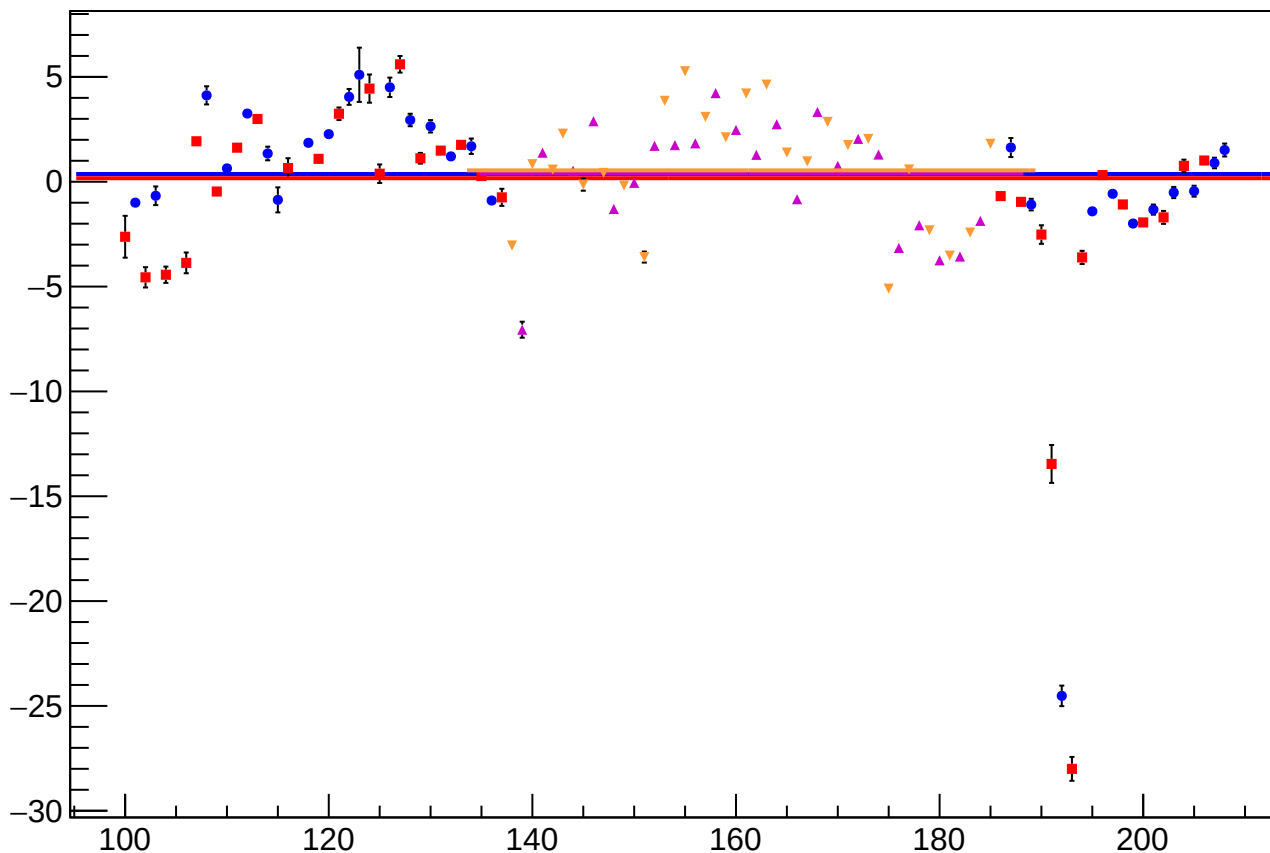
Right: 6.173 ± 0.042 $\chi^2/\text{NDF}: 51590.7/22$

In: -10.259 ± 0.032 $\chi^2/\text{NDF}: 178527.8/33$

Out: -10.960 ± 0.033 $\chi^2/\text{NDF}: 228852.3/36$

All: -10.604 ± 0.023 $\chi^2/\text{NDF}: 407614.5/70$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.048 χ^2 /NDF: 3840.6/27

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.169 $\pm$ 0.046 χ^2 /NDF: 4264.3/30

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

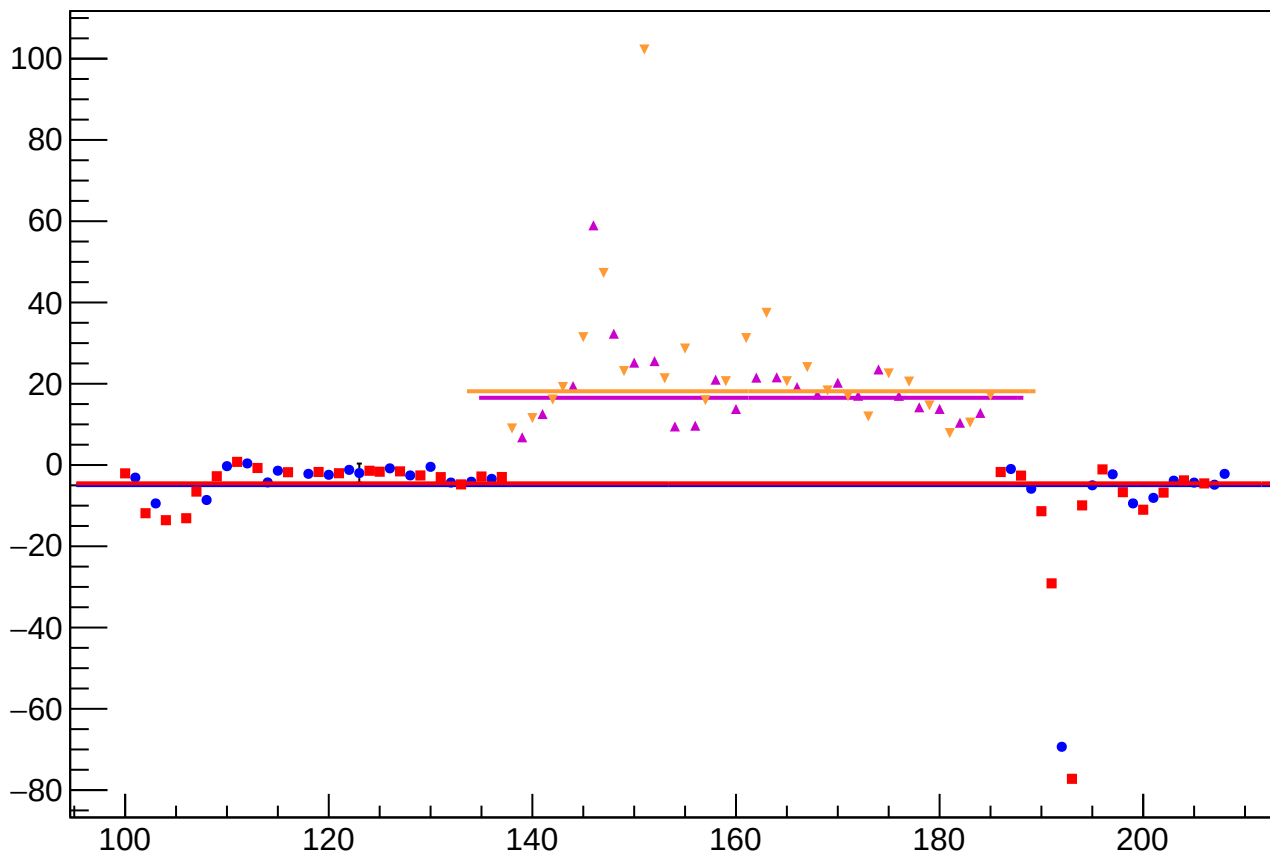
Right: 0.264 $\pm$ 0.033 χ^2 /NDF: 8113.9/58

In: 0.389 $\pm$ 0.026 χ^2 /NDF: 10076.5/50

Out: 0.419 $\pm$ 0.026 χ^2 /NDF: 11393.9/55

All: 0.404 $\pm$ 0.019 χ^2 /NDF: 21471.0/106

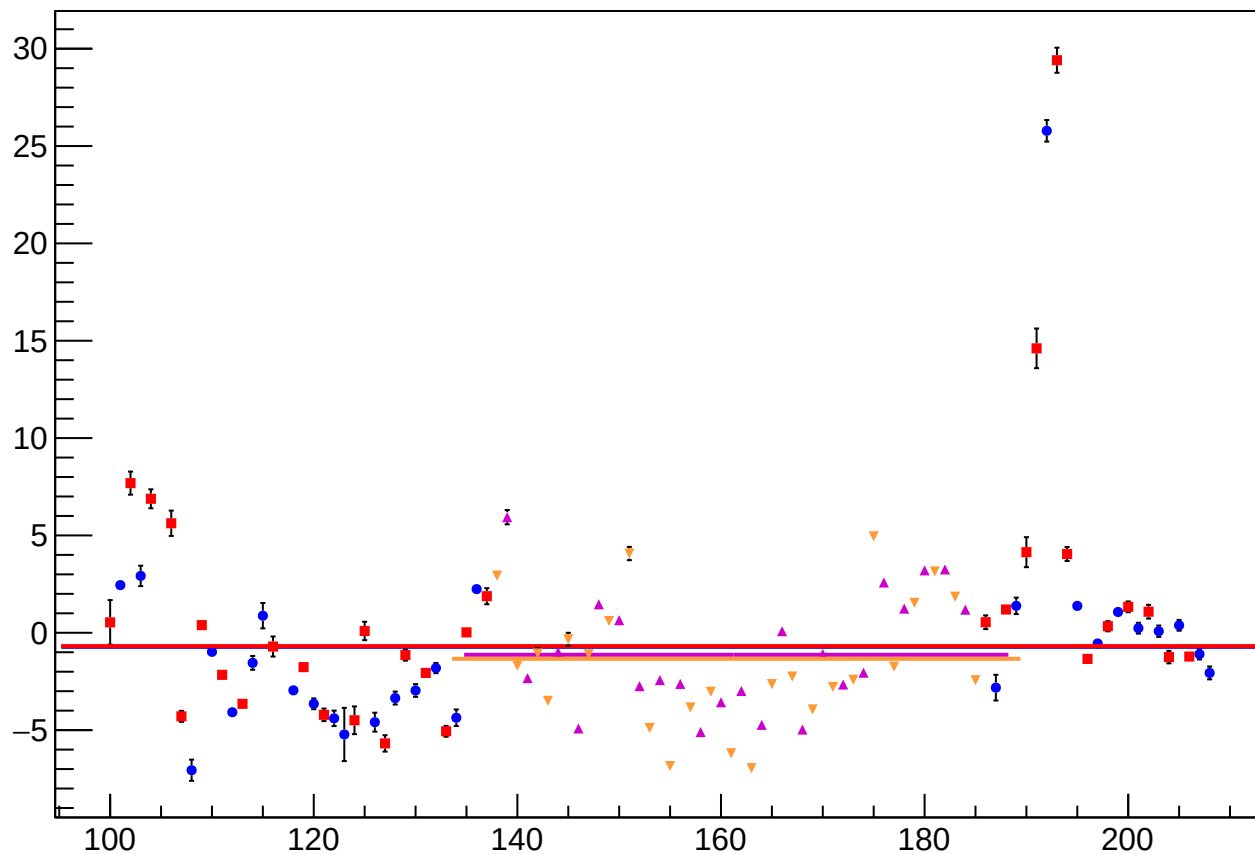
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.945+/-0.049 χ^2/NDF : 26966.8/27
 Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24
 Right Out: -4.510+/-0.046 χ^2/NDF : 27651.1/30
 Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47
 Right: -4.713+/-0.034 χ^2/NDF : 54659.9/58
 In: 8.541+/-0.030 χ^2/NDF : 188432.8/50
 Out: 8.629+/-0.030 χ^2/NDF : 246648.6/55
 All: 8.585+/-0.021 χ^2/NDF : 435085.8/106

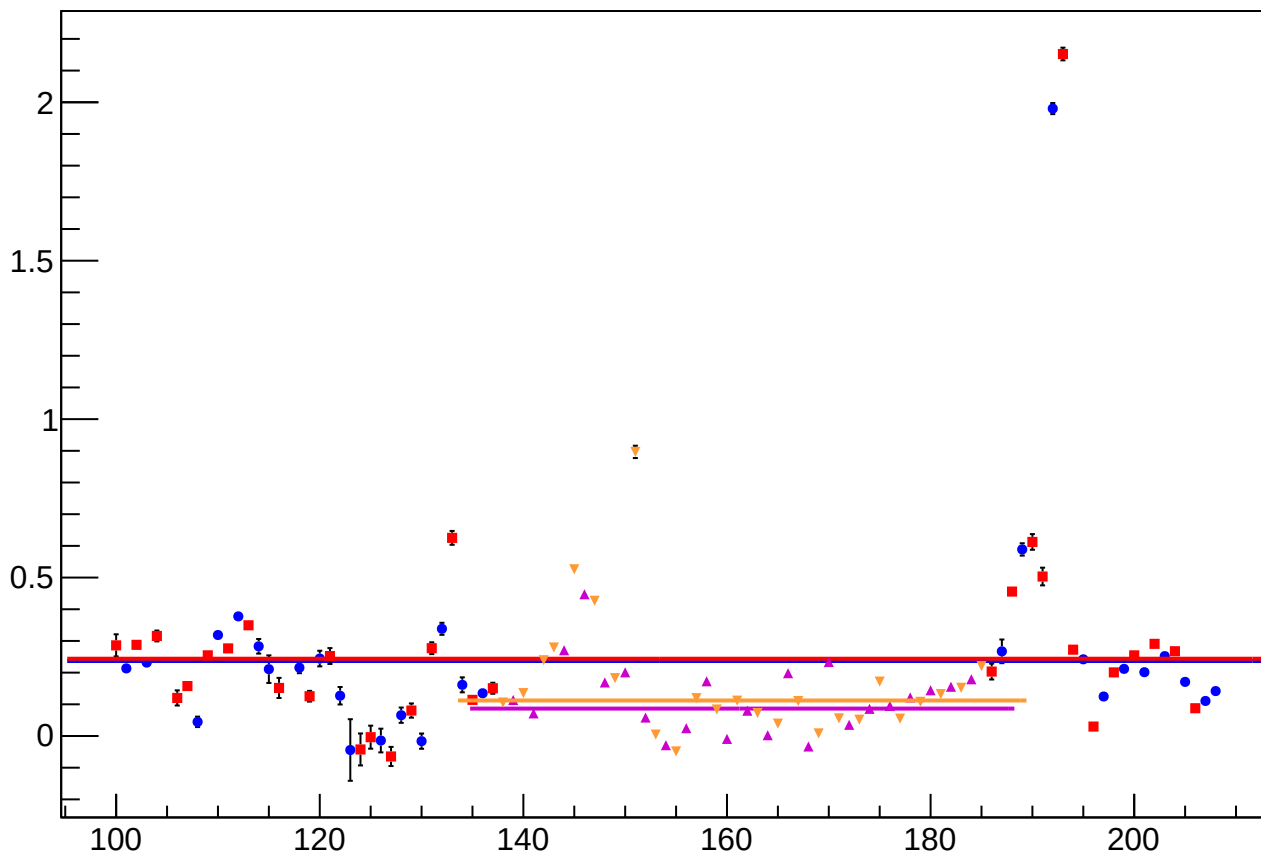
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.721 ± 0.056 $\chi^2/\text{NDF}: 3931.9/27$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -0.685 ± 0.054 $\chi^2/\text{NDF}: 4474.8/30$
 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: -0.702 ± 0.039 $\chi^2/\text{NDF}: 8406.9/58$
 In: -1.018 ± 0.029 $\chi^2/\text{NDF}: 10711.1/50$
 Out: -1.135 ± 0.030 $\chi^2/\text{NDF}: 12520.4/55$
 All: -1.075 ± 0.021 $\chi^2/\text{NDF}: 23239.4/106$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 ± 0.002 $\chi^2/\text{NDF}: 11428.7/27$

Left Out: 0.112 ± 0.002 $\chi^2/\text{NDF}: 4503.9/24$

Right Out: 0.244 ± 0.002 $\chi^2/\text{NDF}: 11884.9/30$

Left In: 0.087 ± 0.002 $\chi^2/\text{NDF}: 3655.4/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8295.3/47$

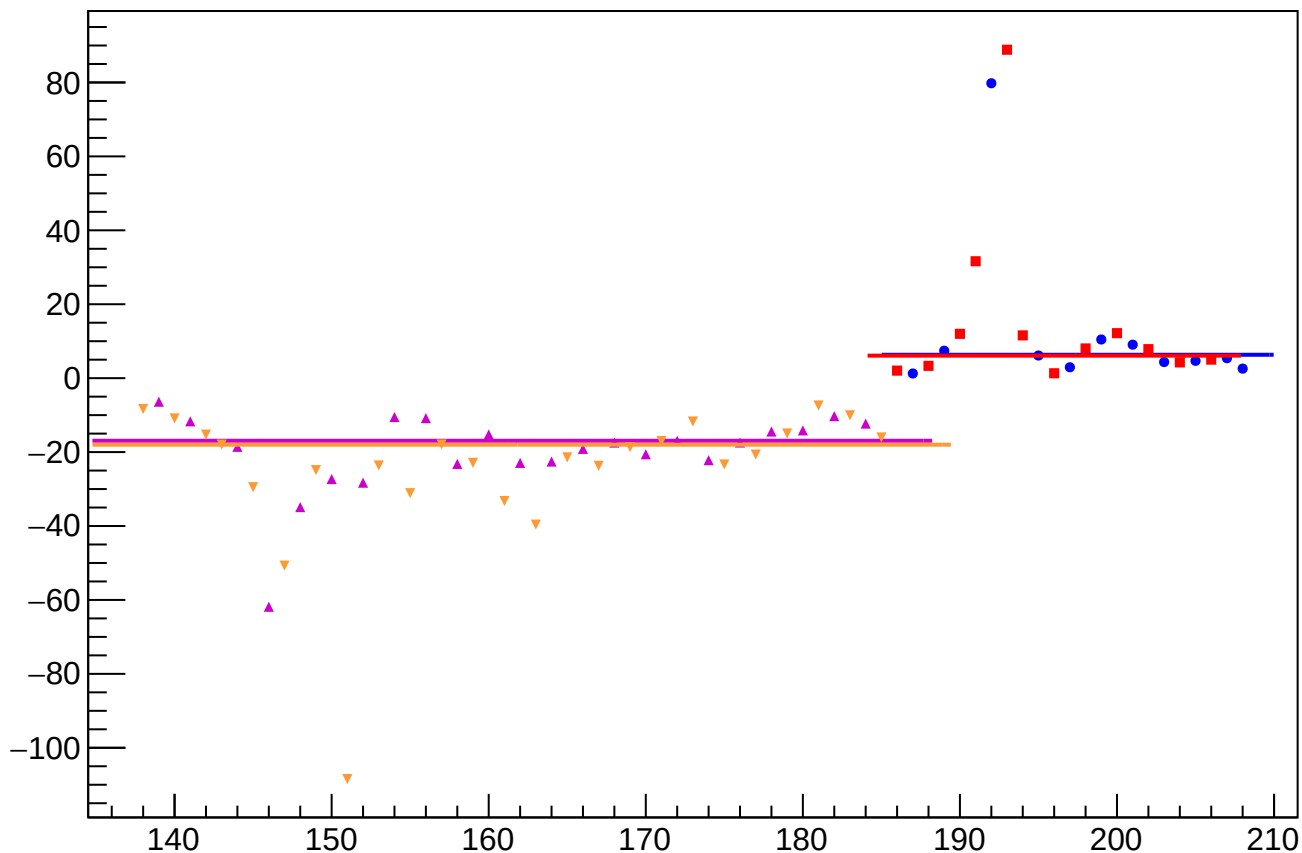
Right: 0.240 ± 0.002 $\chi^2/\text{NDF}: 23318.0/58$

In: 0.127 ± 0.001 $\chi^2/\text{NDF}: 17801.8/50$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18452.7/55$

All: 0.139 ± 0.001 $\chi^2/\text{NDF}: 36437.8/106$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -17.459 ± 0.027 χ^2/NDF : 132843.0/47

Right: 6.211 ± 0.042 χ^2/NDF : 52122.0/22

In: -10.192 ± 0.032 χ^2/NDF : 179208.3/33

Out: -10.861 ± 0.032 χ^2/NDF : 229829.3/36

All: -10.522 ± 0.023 χ^2/NDF : 409253.8/70

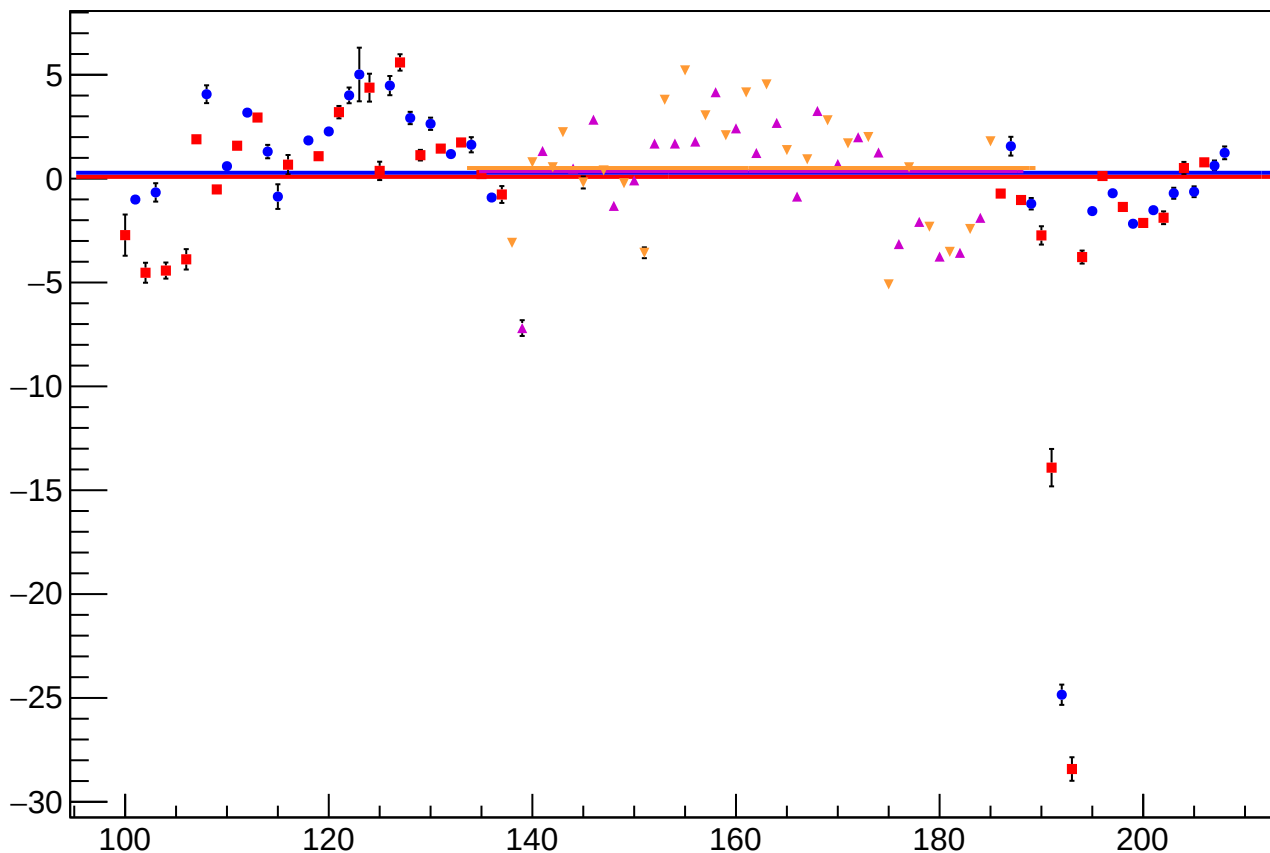
Right In: 6.330 ± 0.059 χ^2/NDF : 25966.5/10

Left Out: -18.005 ± 0.039 χ^2/NDF : 88391.0/24

Right Out: 6.091 ± 0.060 χ^2/NDF : 26147.5/11

Left In: -16.934 ± 0.038 χ^2/NDF : 44060.6/22

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.282 $\pm$ 0.048 χ^2 /NDF: 3969.7/27

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.085 $\pm$ 0.046 χ^2 /NDF: 4423.7/30

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

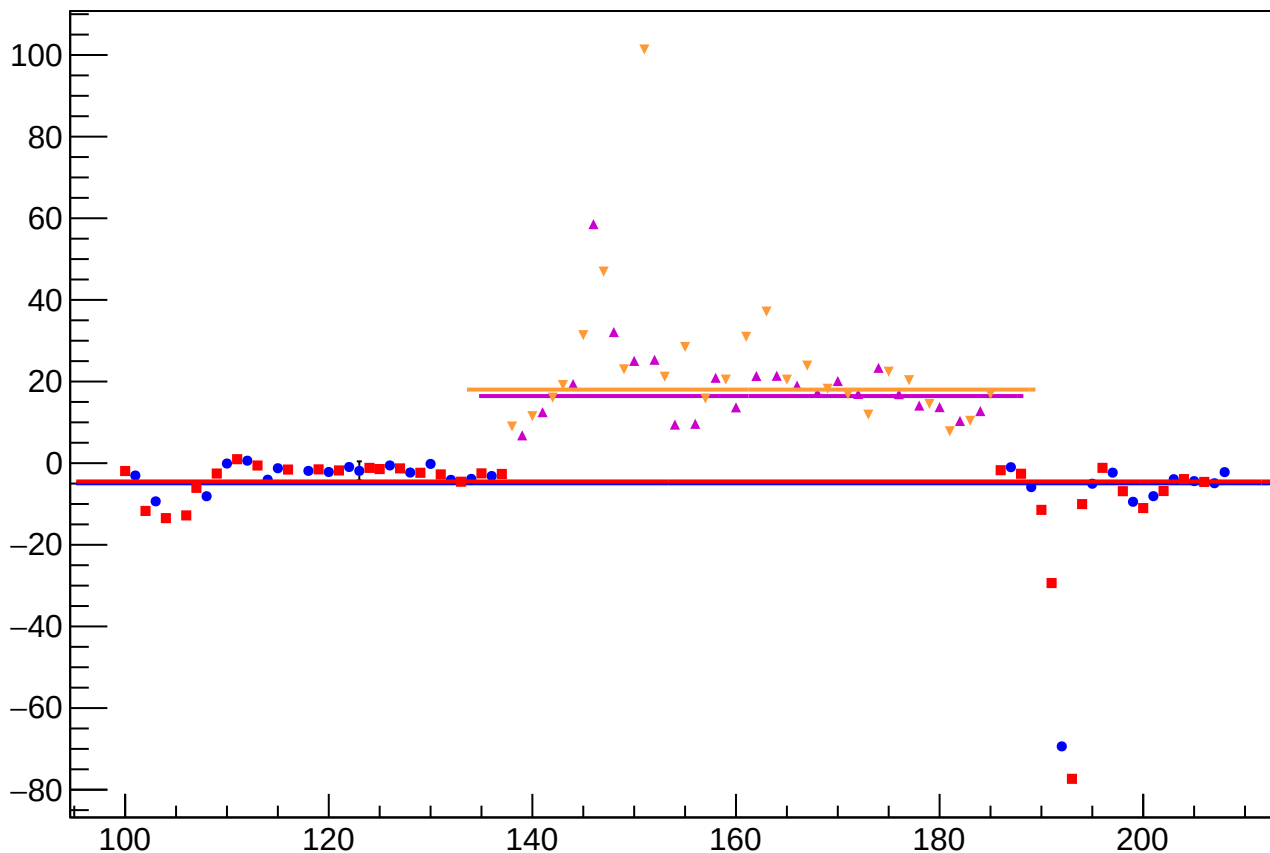
Right: 0.179 $\pm$ 0.033 χ^2 /NDF: 8402.3/58

In: 0.337 $\pm$ 0.026 χ^2 /NDF: 10192.7/50

Out: 0.371 $\pm$ 0.026 χ^2 /NDF: 11552.3/55

All: 0.354 $\pm$ 0.018 χ^2 /NDF: 21745.7/106

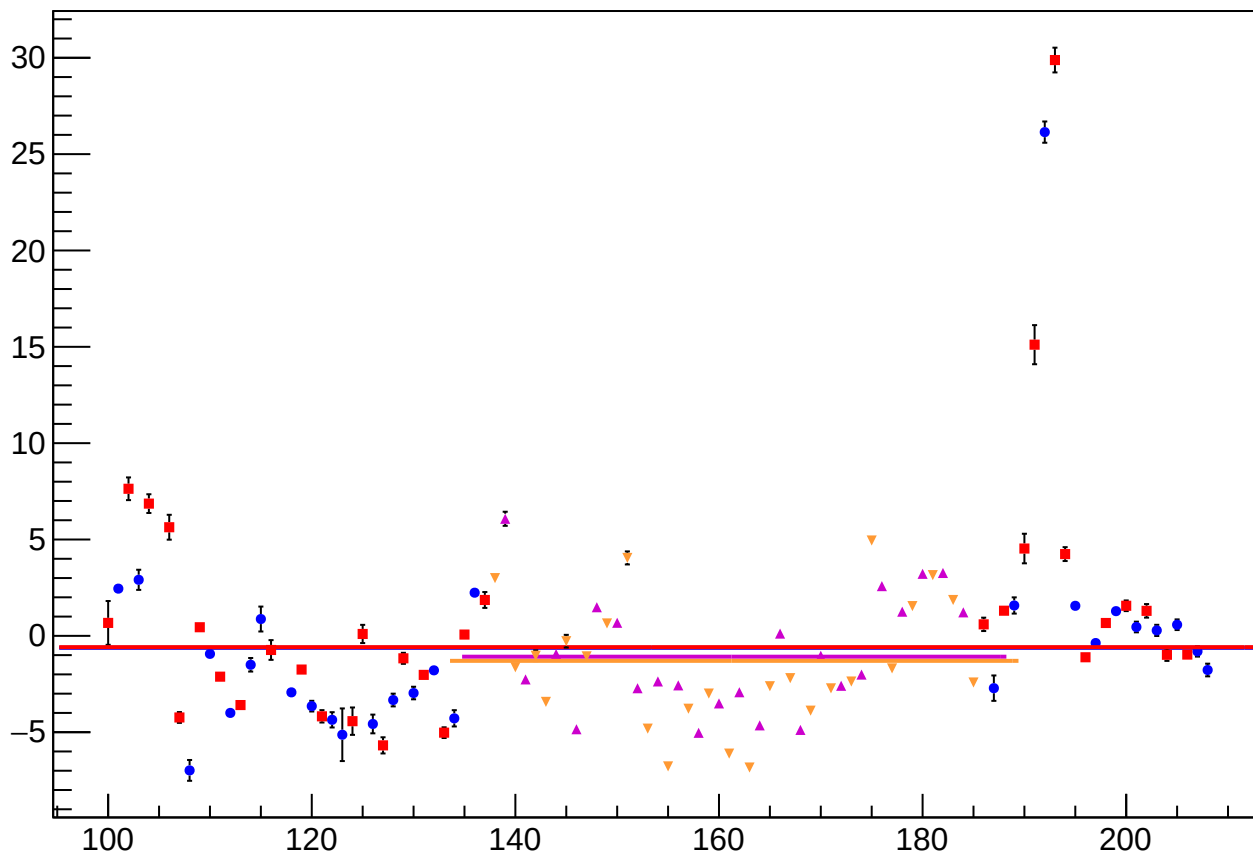
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.933+/-0.049 χ^2/NDF : 27276.7/27
 Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24
 Right Out: -4.478+/-0.046 χ^2/NDF : 28118.3/30
 Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47
 Right: -4.690+/-0.033 χ^2/NDF : 55441.5/58
 In: 8.502+/-0.030 χ^2/NDF : 188701.0/50
 Out: 8.569+/-0.030 χ^2/NDF : 247081.0/55
 All: 8.536+/-0.021 χ^2/NDF : 435784.5/106

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.620 ± 0.056 $\chi^2/\text{NDF}: 4037.6/27$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.587 ± 0.053 $\chi^2/\text{NDF}: 4625.0/30$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

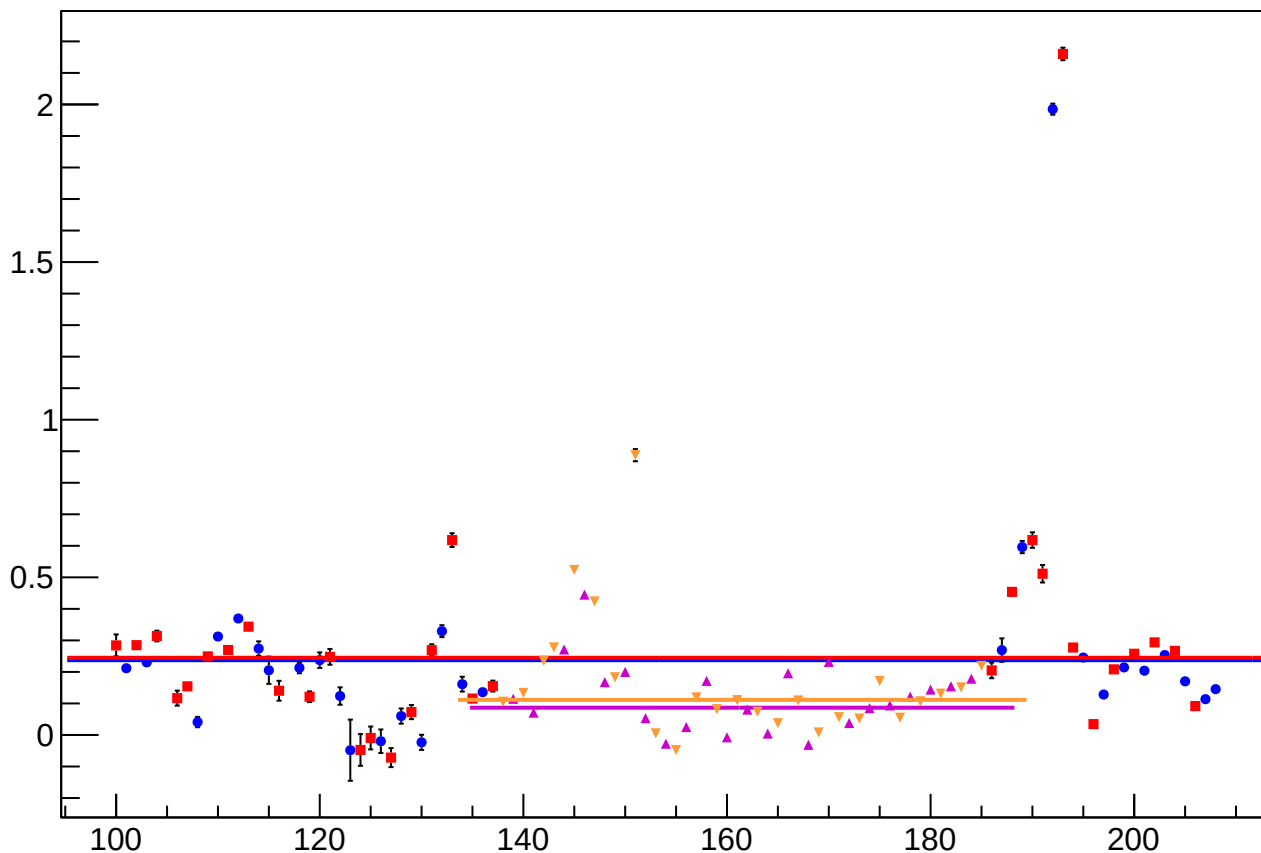
Right: -0.603 ± 0.038 $\chi^2/\text{NDF}: 8662.7/58$

In: -0.956 ± 0.029 $\chi^2/\text{NDF}: 10812.0/50$

Out: -1.077 ± 0.030 $\chi^2/\text{NDF}: 12672.8/55$

All: -1.015 ± 0.021 $\chi^2/\text{NDF}: 23493.4/106$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2 /NDF: 11549.4/27

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.245 $\pm$ 0.002 χ^2 /NDF: 12012.5/30

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

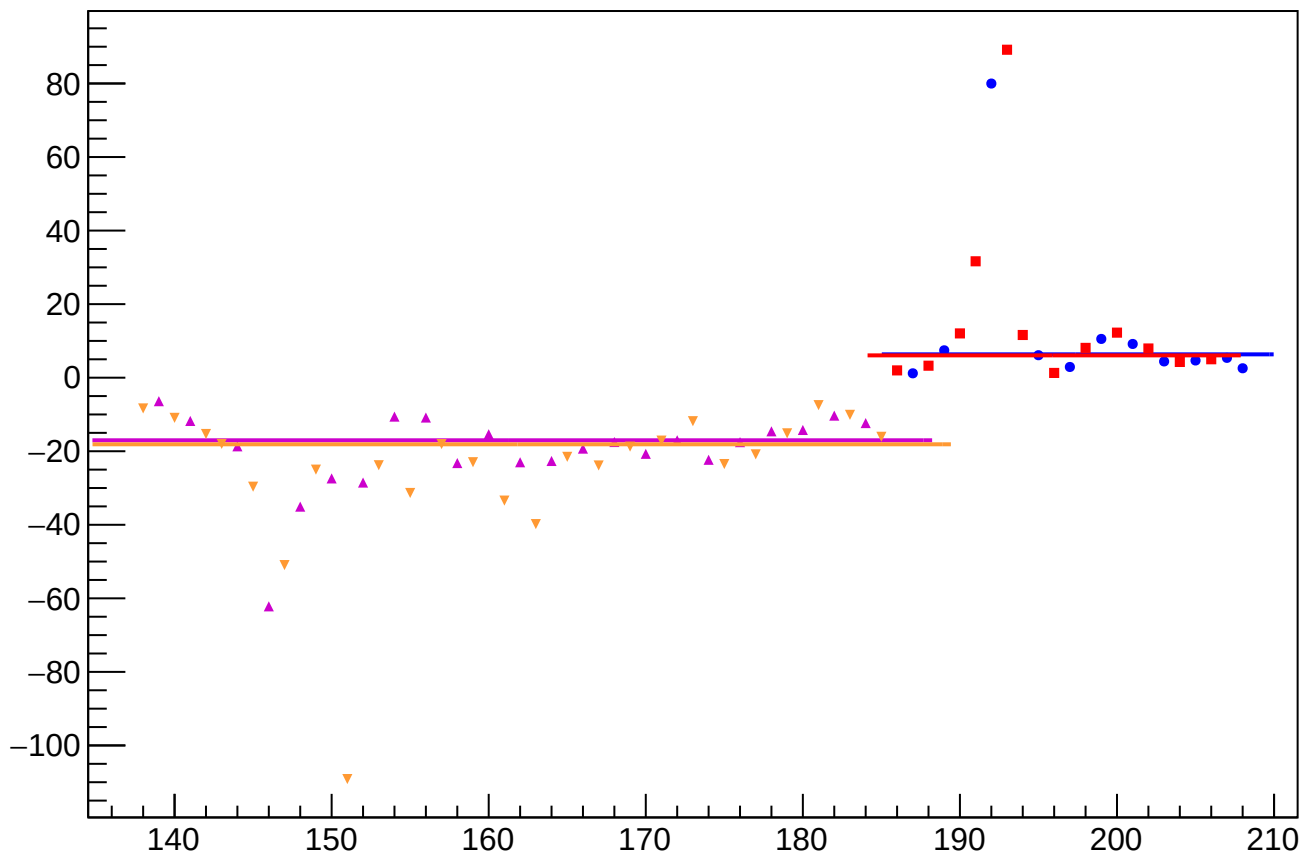
Right: 0.241 $\pm$ 0.002 χ^2 /NDF: 23566.8/58

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17943.4/50

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18649.7/55

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 36773.3/106

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.345 $\pm$ 0.060 χ^2 /NDF: 25961.3/10

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 6.069 $\pm$ 0.060 χ^2 /NDF: 26181.2/11

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF: 44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

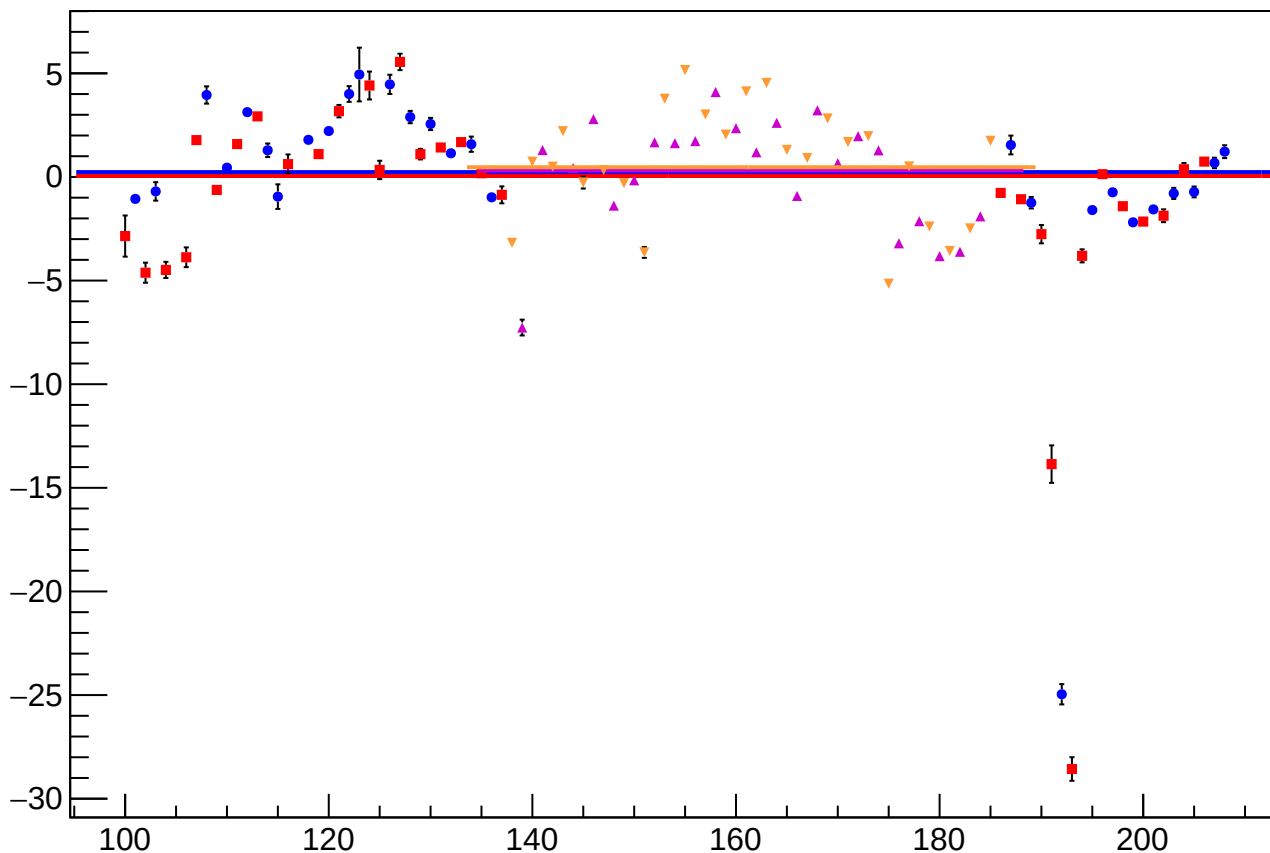
Right: 6.207 $\pm$ 0.042 χ^2 /NDF: 52153.2/22

In: -10.280 $\pm$ 0.032 χ^2 /NDF: 178956.6/33

Out: -10.932 $\pm$ 0.033 χ^2 /NDF: 230007.5/36

All: -10.601 $\pm$ 0.023 χ^2 /NDF: 409167.8/70

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.235 $\pm$ 0.048 χ^2 /NDF: 3957.7/27

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.047 $\pm$ 0.046 χ^2 /NDF: 4416.2/30

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

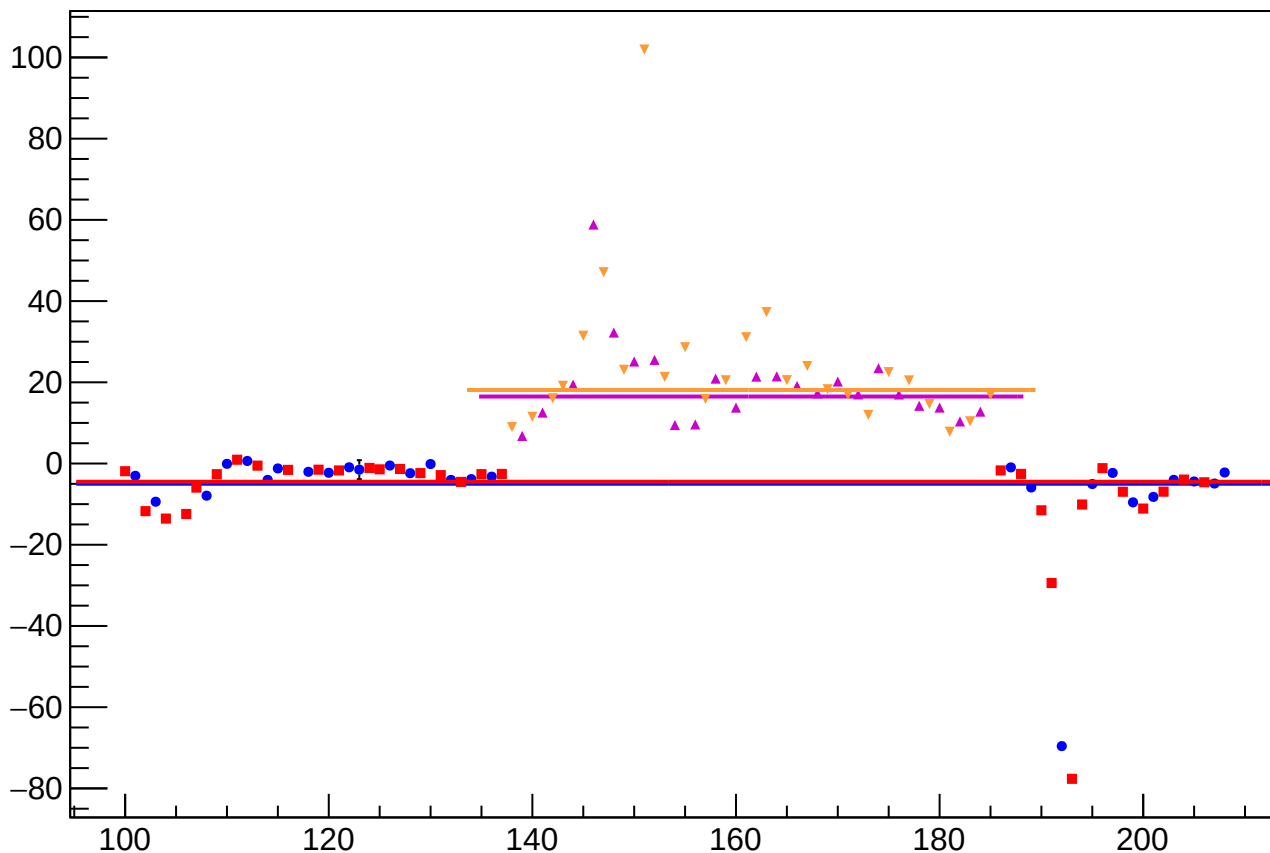
Right: 0.136 $\pm$ 0.033 χ^2 /NDF: 8381.8/58

In: 0.289 $\pm$ 0.026 χ^2 /NDF: 10142.6/50

Out: 0.329 $\pm$ 0.026 χ^2 /NDF: 11565.8/55

All: 0.309 $\pm$ 0.018 χ^2 /NDF: 21709.6/106

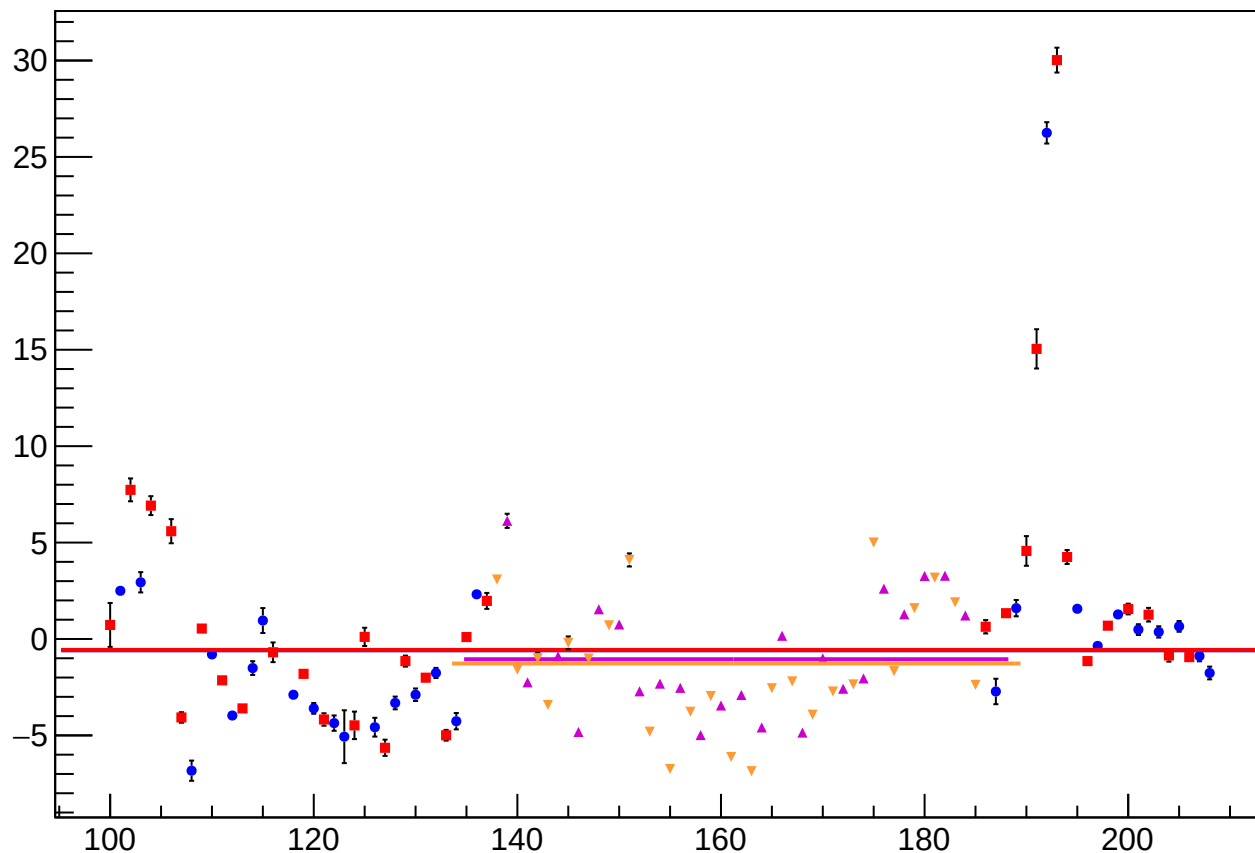
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.969+/-0.049 χ^2/NDF : 27275.5/27
 Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24
 Right Out: -4.489+/-0.046 χ^2/NDF : 28135.7/30
 Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47
 Right: -4.712+/-0.033 χ^2/NDF : 55462.2/58
 In: 8.549+/-0.030 χ^2/NDF : 188441.7/50
 Out: 8.594+/-0.030 χ^2/NDF : 247253.8/55
 All: 8.572+/-0.021 χ^2/NDF : 435696.7/106

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

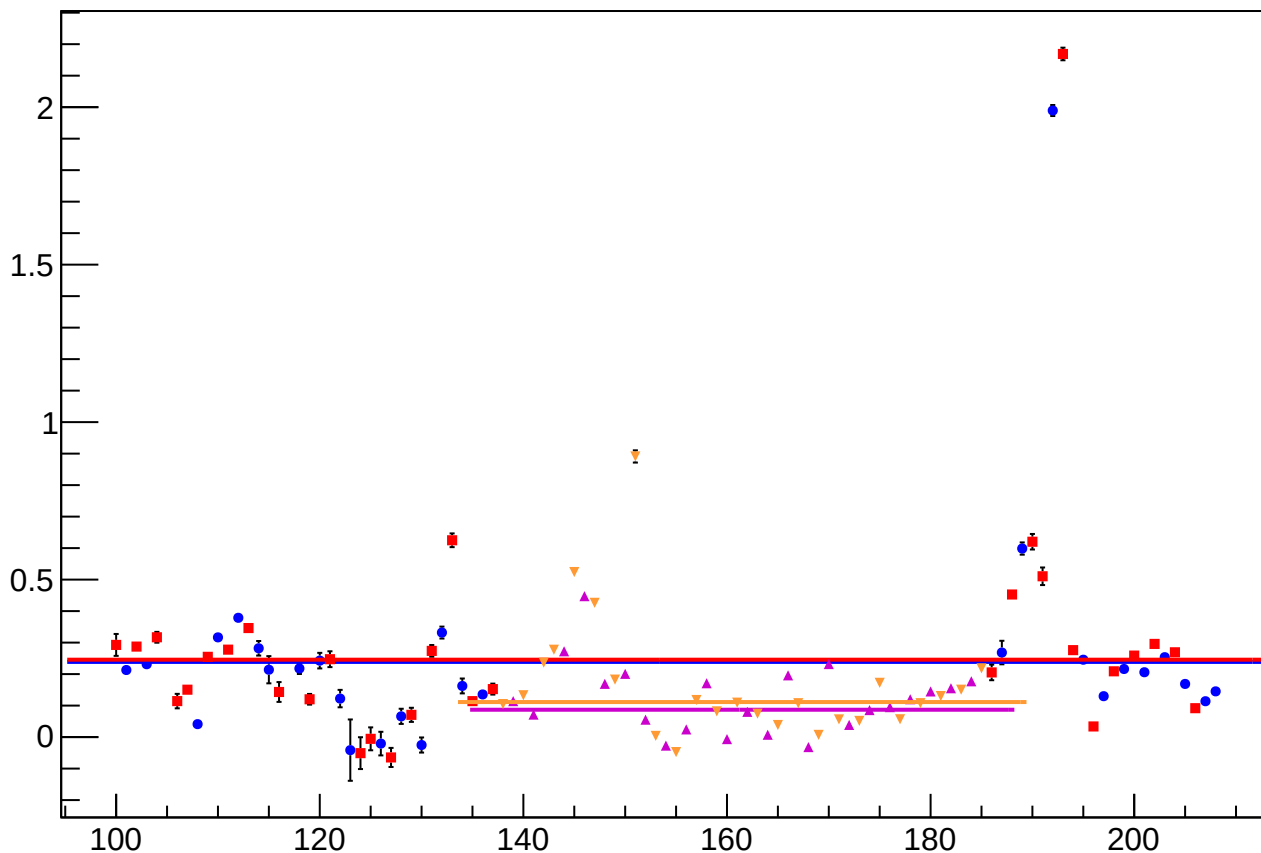


Right In: -0.587 ± 0.056 $\chi^2/\text{NDF}: 4029.7/27$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.567 ± 0.053 $\chi^2/\text{NDF}: 4621.3/30$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.576 ± 0.039 $\chi^2/\text{NDF}: 8651.1/58$
 In: -0.925 ± 0.029 $\chi^2/\text{NDF}: 10753.3/50$
 Out: -1.054 ± 0.030 $\chi^2/\text{NDF}: 12693.2/55$

All: -0.988 ± 0.021 $\chi^2/\text{NDF}: 23456.2/106$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.239 $\pm$ 0.002 χ^2 /NDF: 11544.0/27

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.246 $\pm$ 0.002 χ^2 /NDF: 12028.2/30

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

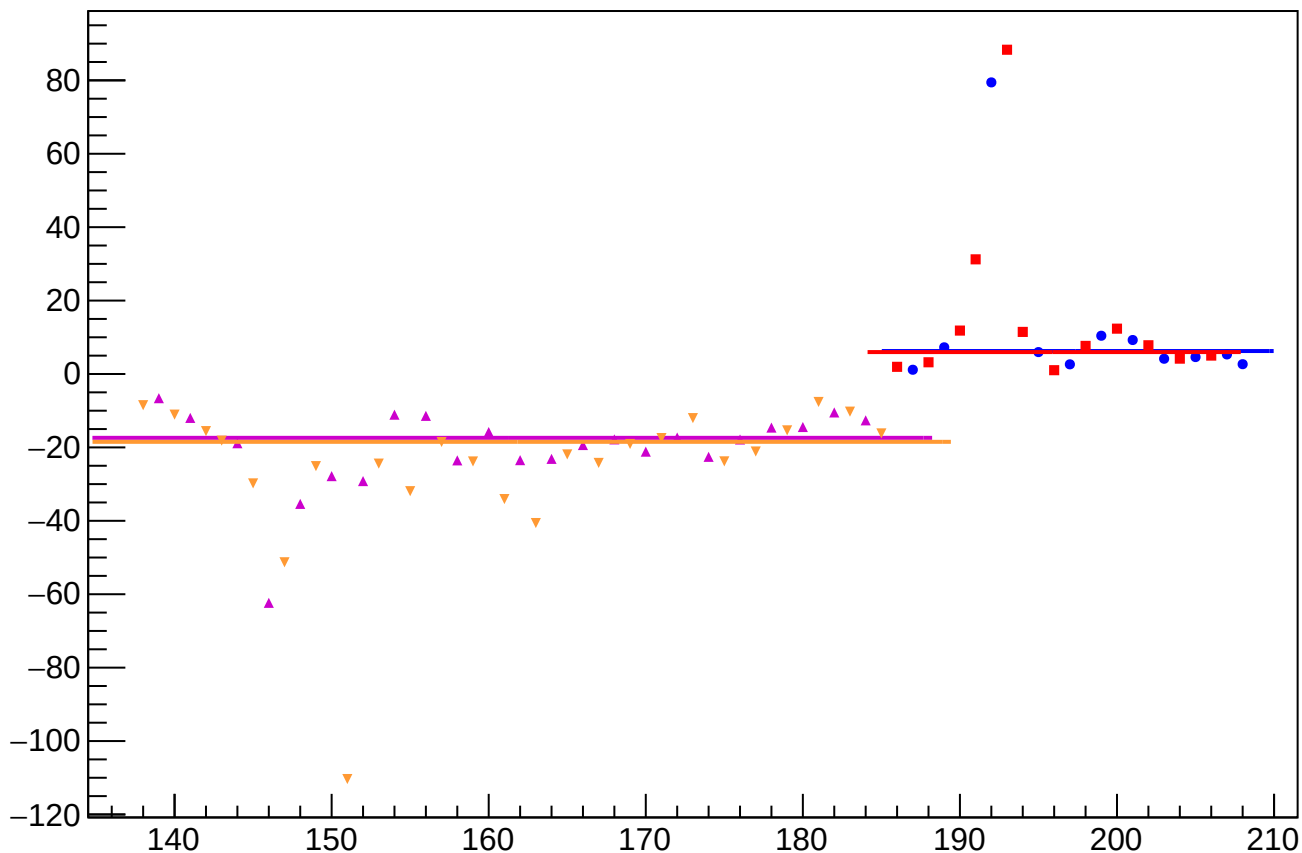
Right: 0.242 $\pm$ 0.002 χ^2 /NDF: 23576.4/58

In: 0.128 $\pm$ 0.001 χ^2 /NDF:17921.3/50

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18659.8/55

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36754.9/106

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.255+/-0.060 χ^2/NDF : 25543.7/10

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 5.972+/-0.060 χ^2/NDF : 25702.4/11

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

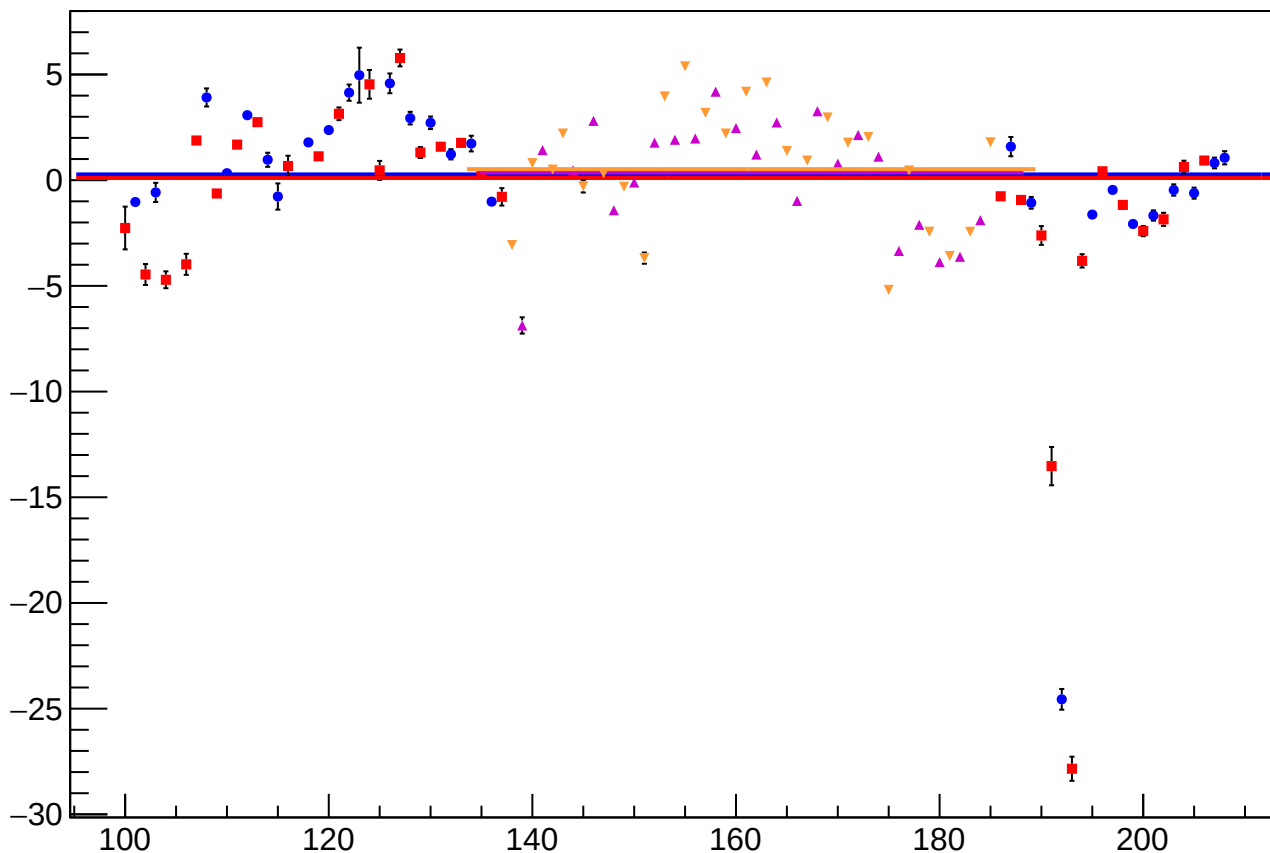
Right: 6.113+/-0.042 χ^2/NDF : 51257.3/22

In: -10.388+/-0.033 χ^2/NDF : 177860.8/33

Out: -11.020+/-0.033 χ^2/NDF : 229310.6/36

All: -10.700+/-0.023 χ^2/NDF : 407355.6/70

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.273 $\pm$ 0.049 χ^2 /NDF: 3823.2/27

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.104 $\pm$ 0.047 χ^2 /NDF: 4259.9/30

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

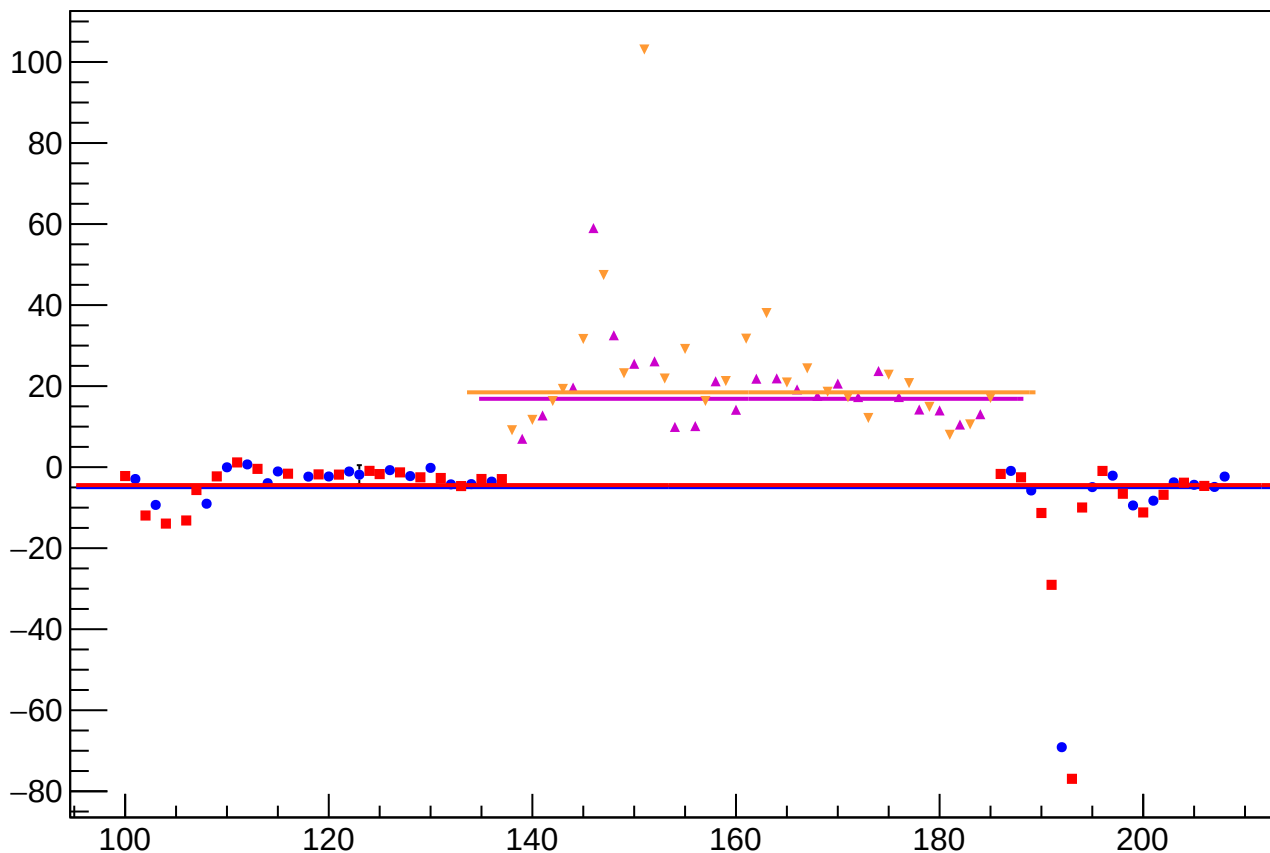
Right: 0.184 $\pm$ 0.034 χ^2 /NDF: 8089.3/58

In: 0.343 $\pm$ 0.026 χ^2 /NDF: 10043.5/50

Out: 0.382 $\pm$ 0.027 χ^2 /NDF: 11368.4/55

All: 0.362 $\pm$ 0.019 χ^2 /NDF: 21413.0/106

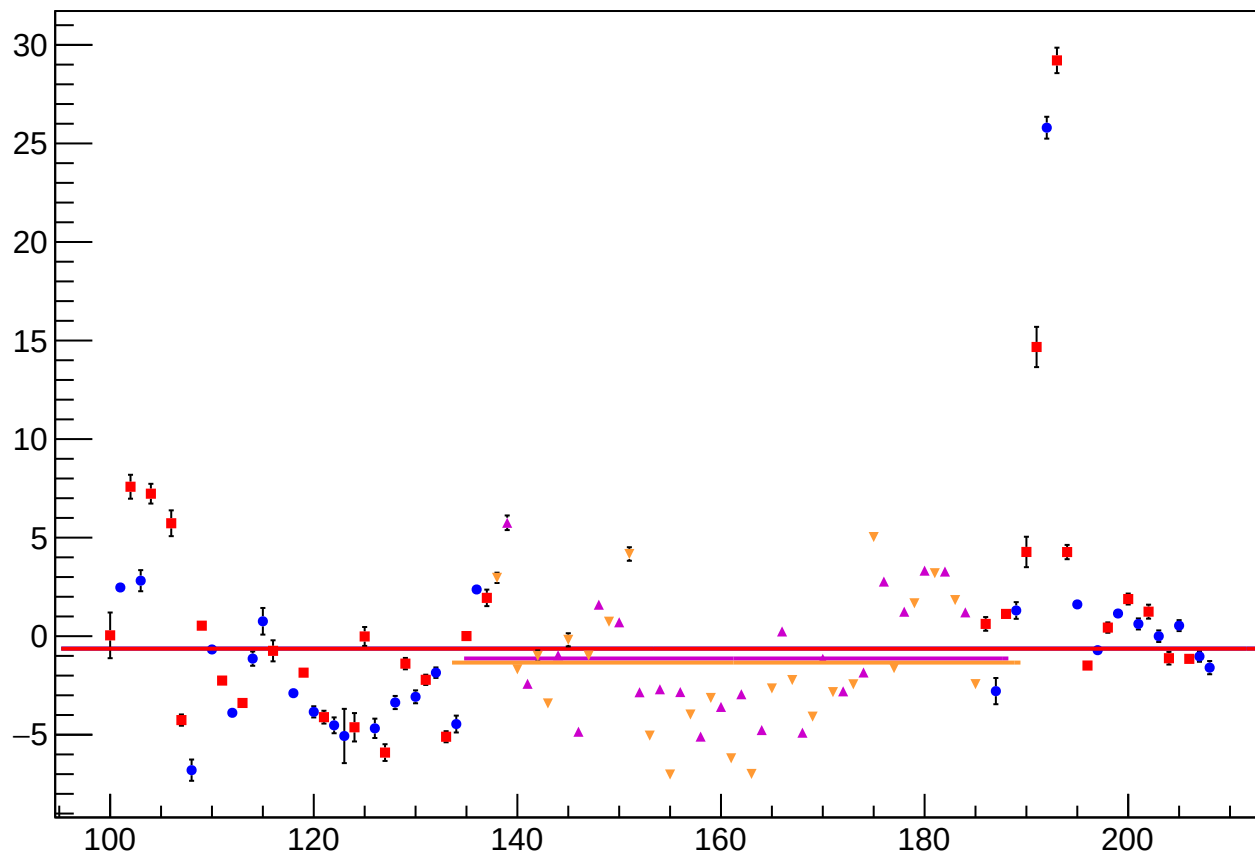
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.936+/-0.049 χ^2/NDF : 26791.5/27
 Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24
 Right Out: -4.429+/-0.046 χ^2/NDF : 27641.2/30
 Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47
 Right: -4.664+/-0.034 χ^2/NDF : 54489.0/58
 In: 8.630+/-0.030 χ^2/NDF : 187323.4/50
 Out: 8.658+/-0.030 χ^2/NDF : 246047.4/55
 All: 8.644+/-0.021 χ^2/NDF : 433371.2/106

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

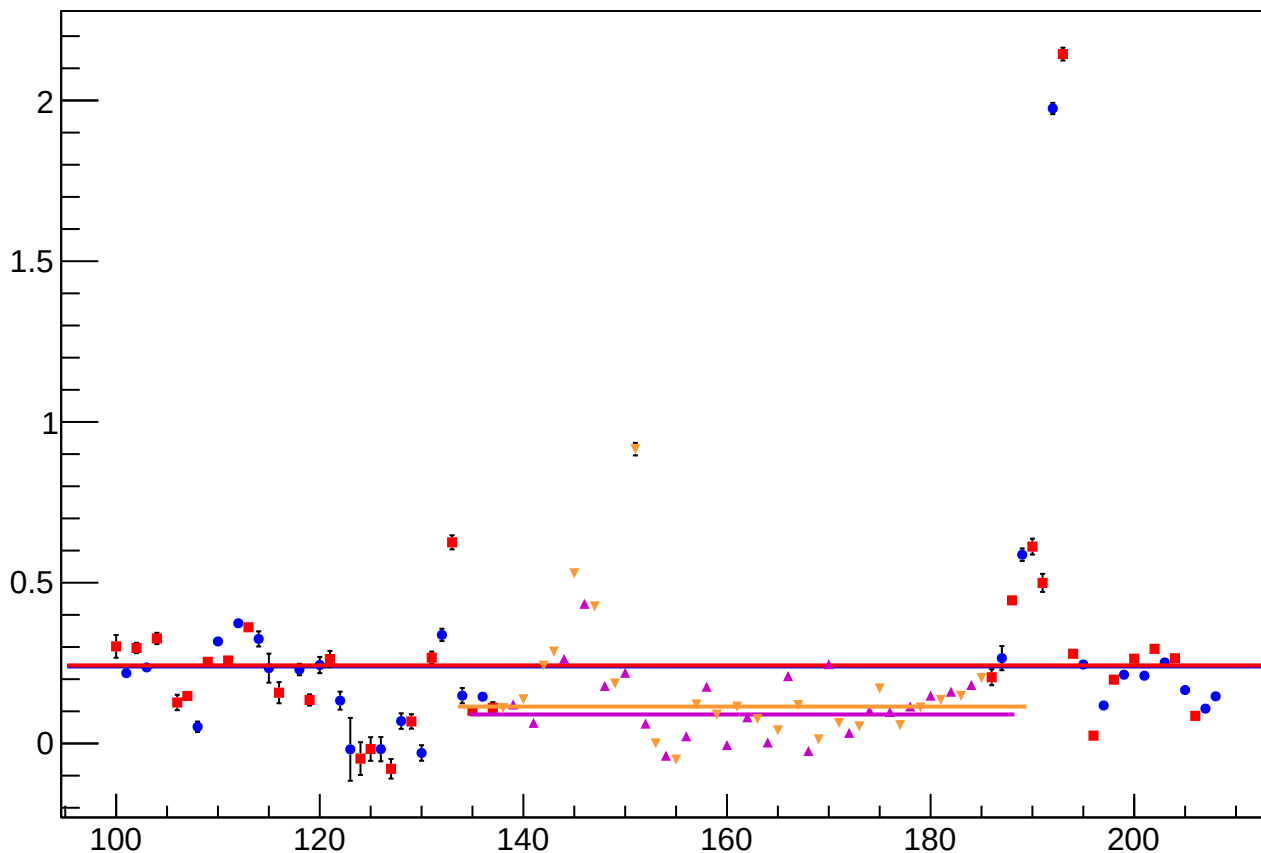


Right In: -0.628 ± 0.057 $\chi^2/\text{NDF}: 3910.1/27$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.635 ± 0.054 $\chi^2/\text{NDF}: 4468.5/30$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.632 ± 0.039 $\chi^2/\text{NDF}: 8378.6/58$
 In: -0.993 ± 0.030 $\chi^2/\text{NDF}: 10676.1/50$
 Out: -1.120 ± 0.030 $\chi^2/\text{NDF}: 12491.7/55$

All: -1.055 ± 0.021 $\chi^2/\text{NDF}: 23176.7/106$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 ± 0.002 $\chi^2/\text{NDF}: 11301.4/27$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.243 ± 0.002 $\chi^2/\text{NDF}: 11890.1/30$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

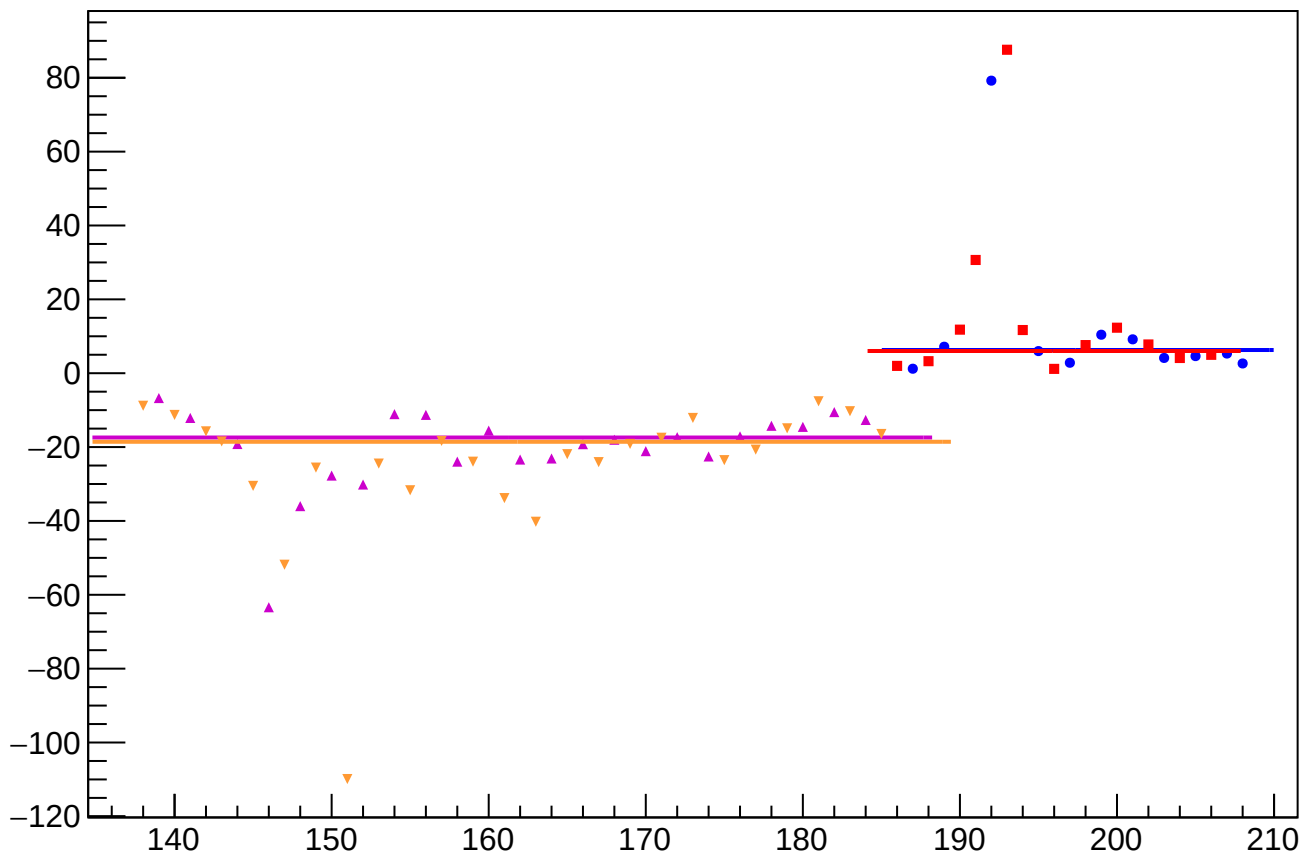
Right: 0.241 ± 0.002 $\chi^2/\text{NDF}: 23192.4/58$

In: 0.132 ± 0.001 $\chi^2/\text{NDF}: 17590.3/50$

Out: 0.154 ± 0.001 $\chi^2/\text{NDF}: 18221.7/55$

All: 0.143 ± 0.001 $\chi^2/\text{NDF}: 35960.3/106$

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.283 ± 0.061 $\chi^2/\text{NDF}: 25060.5/10$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 6.016 ± 0.061 $\chi^2/\text{NDF}: 25052.6/11$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

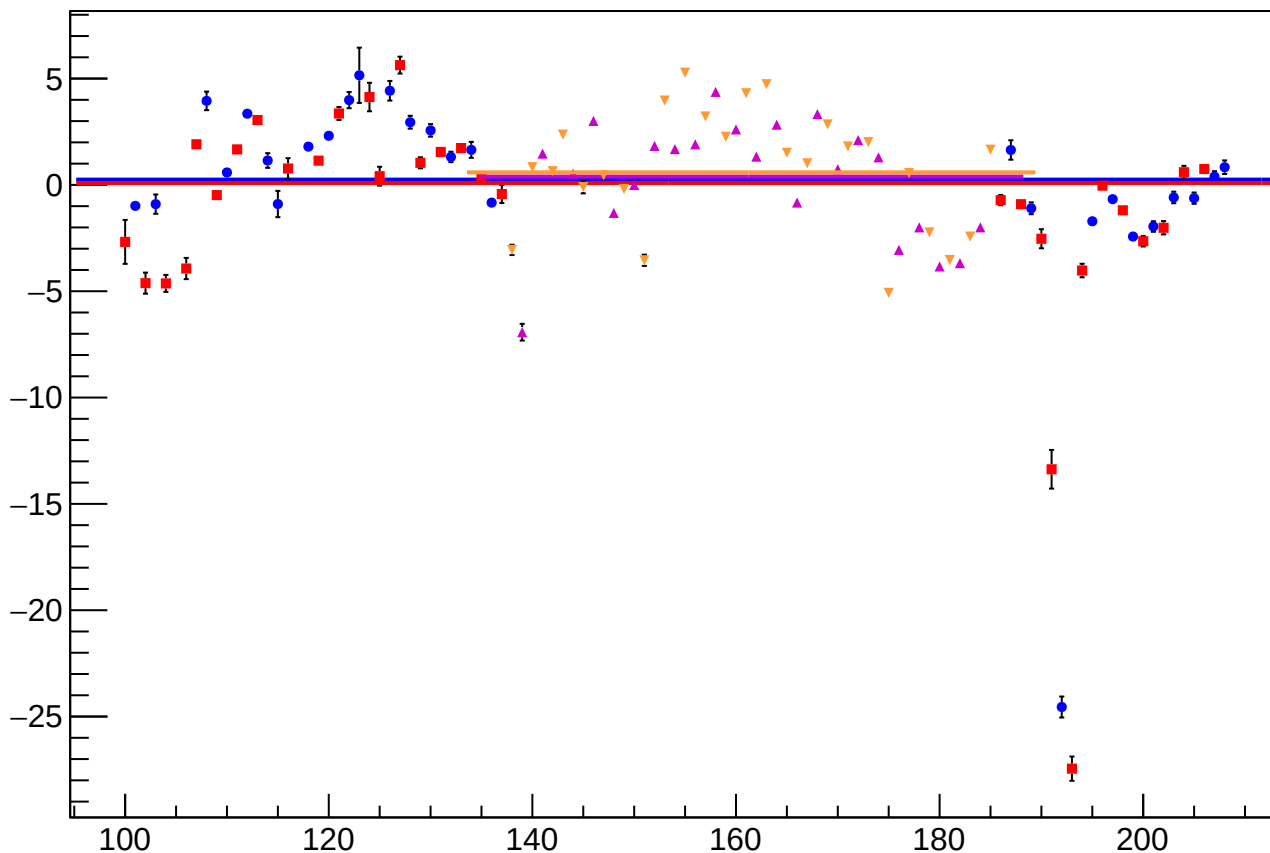
Right: 6.149 ± 0.043 $\chi^2/\text{NDF}: 50122.7/22$

In: -10.426 ± 0.033 $\chi^2/\text{NDF}: 175770.5/33$

Out: -11.095 ± 0.033 $\chi^2/\text{NDF}: 225681.3/36$

All: -10.756 ± 0.023 $\chi^2/\text{NDF}: 401654.2/70$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.249+/-0.049 χ^2/NDF : 3860.9/27

Left Out: 0.591+/-0.033 χ^2/NDF : 6796.5/24

Right Out: 0.091+/-0.047 χ^2/NDF : 4212.5/30

Left In: 0.394+/-0.032 χ^2/NDF : 6059.8/22

Left: 0.488+/-0.023 χ^2/NDF : 12874.6/47

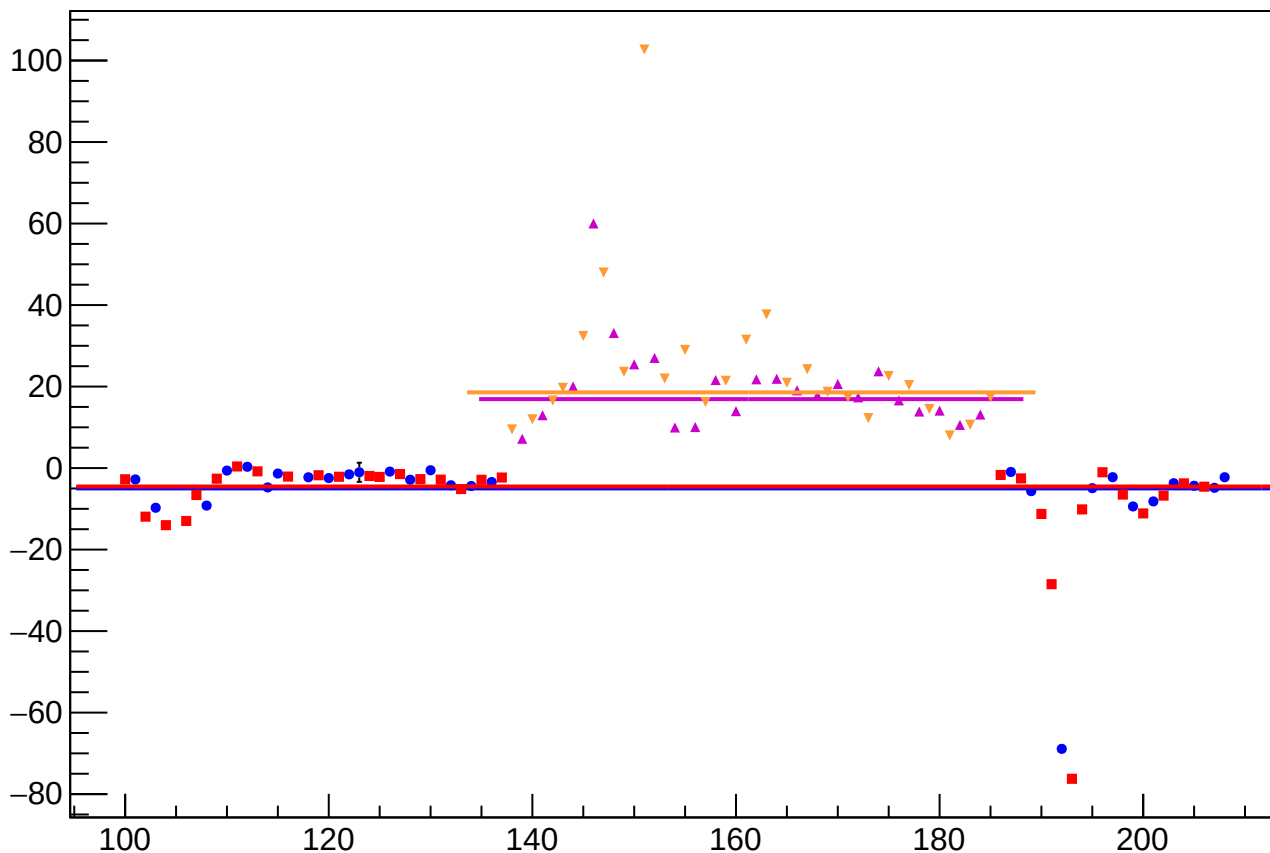
Right: 0.166+/-0.034 χ^2/NDF : 8078.7/58

In: 0.352+/-0.027 χ^2/NDF : 9926.8/50

Out: 0.425+/-0.027 χ^2/NDF : 11083.9/55

All: 0.387+/-0.019 χ^2/NDF : 21014.3/106

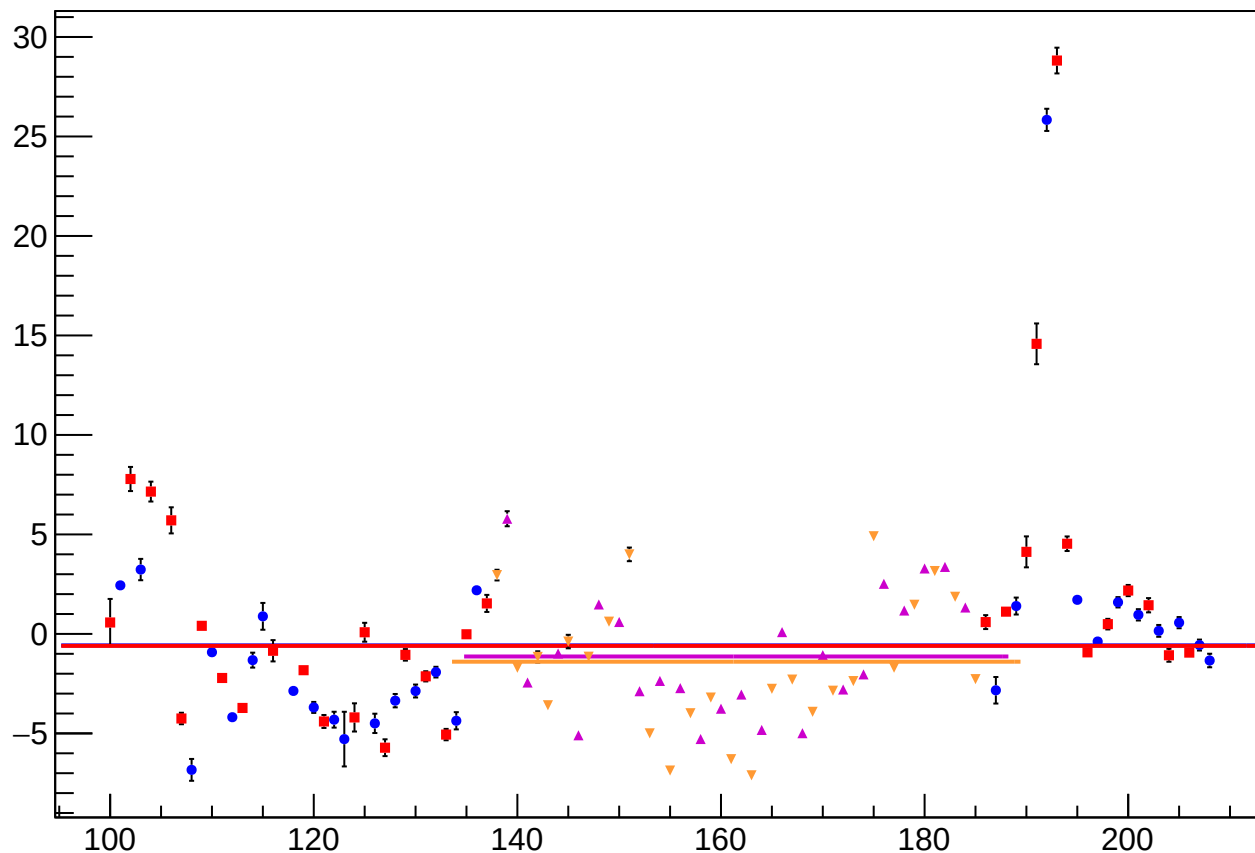
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.988 ± 0.050 $\chi^2/\text{NDF}: 26124.5/27$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.520 ± 0.047 $\chi^2/\text{NDF}: 26744.9/30$
 Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$
 Right: -4.738 ± 0.034 $\chi^2/\text{NDF}: 52915.9/58$
 In: 8.680 ± 0.031 $\chi^2/\text{NDF}: 185510.0/50$
 Out: 8.738 ± 0.031 $\chi^2/\text{NDF}: 242900.2/55$
 All: 8.709 ± 0.022 $\chi^2/\text{NDF}: 428412.0/106$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.577 ± 0.057 $\chi^2/\text{NDF}: 3903.8/27$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.601 ± 0.055 $\chi^2/\text{NDF}: 4407.2/30$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

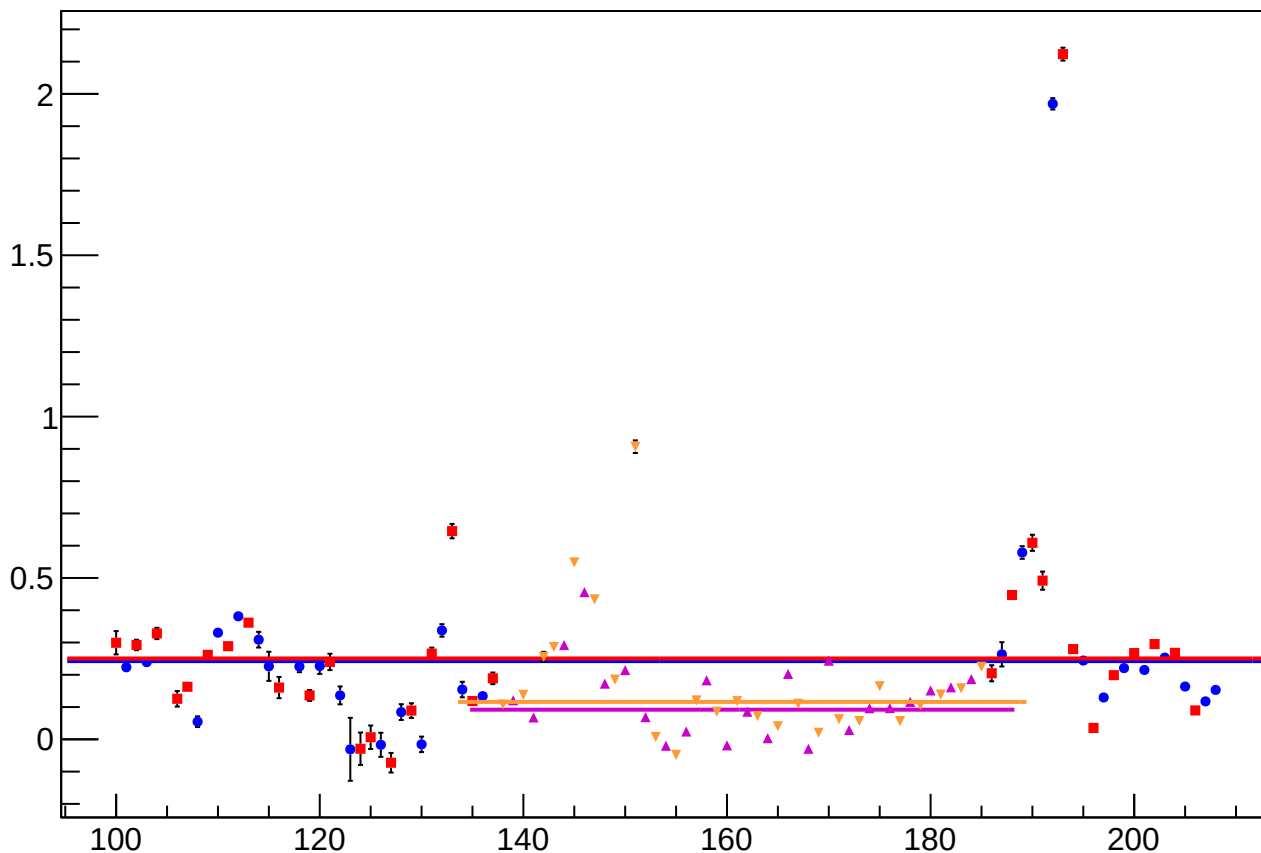
Right: -0.589 ± 0.040 $\chi^2/\text{NDF}: 8311.0/58$

In: -0.981 ± 0.030 $\chi^2/\text{NDF}: 10570.4/50$

Out: -1.150 ± 0.031 $\chi^2/\text{NDF}: 12202.8/55$

All: -1.064 ± 0.021 $\chi^2/\text{NDF}: 22788.5/106$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.242 $\pm$ 0.003 χ^2 /NDF: 11035.3/27

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.251 $\pm$ 0.002 χ^2 /NDF: 11368.6/30

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

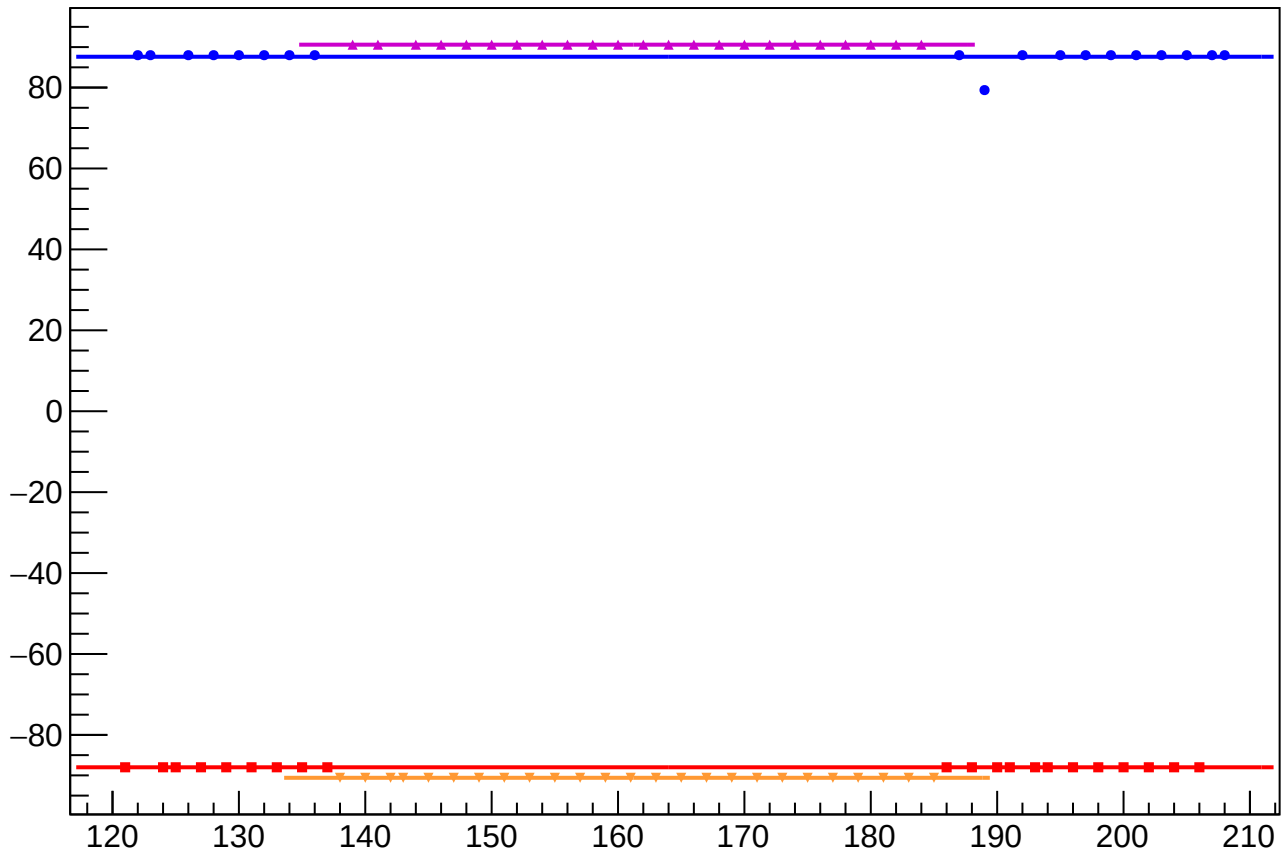
Right: 0.247 $\pm$ 0.002 χ^2 /NDF: 22409.2/58

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17256.5/50

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17872.7/55

All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35287.1/106

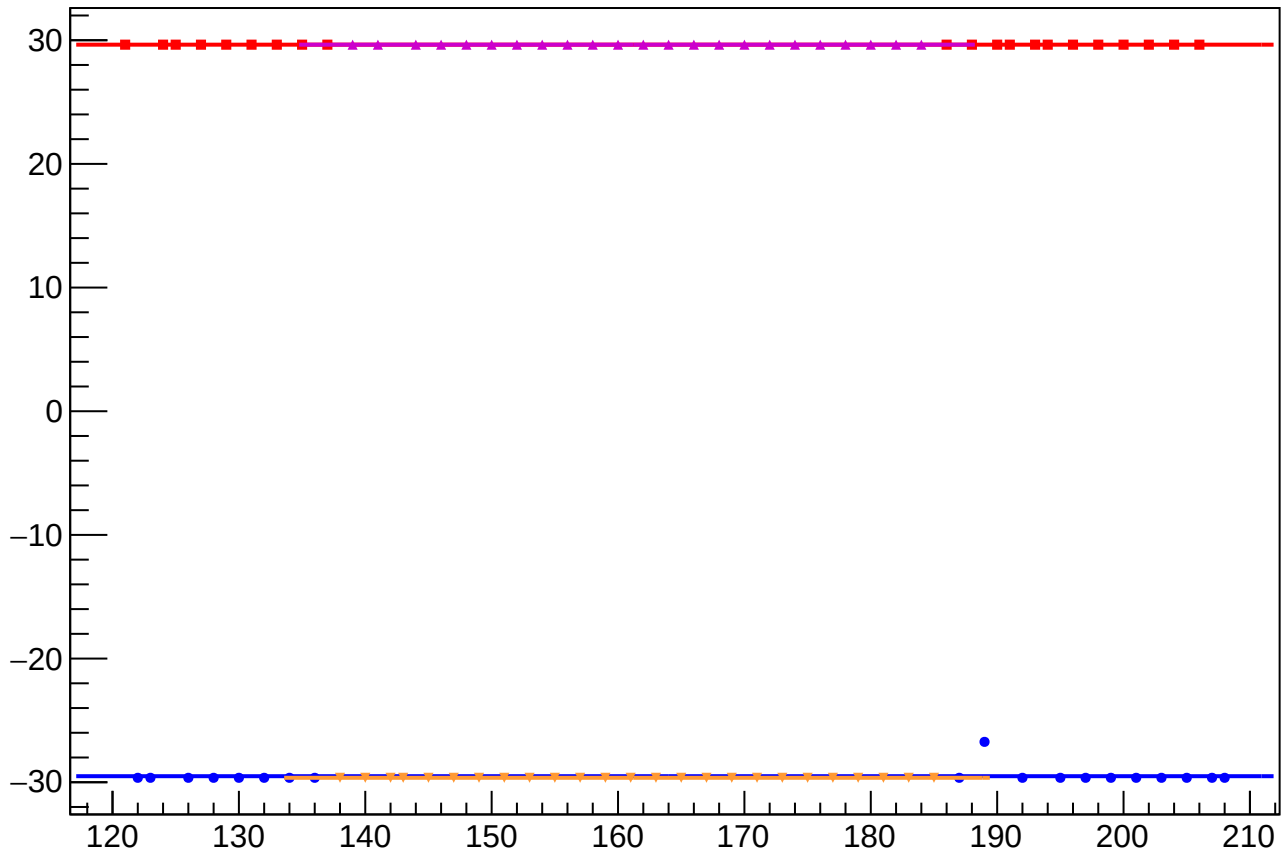
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.615 ± 0.000 χ^2/NDF : 3626609238946743582136046582759424.0/18
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 1088501.8/20
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -0.308 ± 0.000 χ^2/NDF : 1763694920540548
 In: 89.445 ± 0.000 χ^2/NDF : 986231337662325249
 Out: -89.625 ± 0.000 χ^2/NDF : 4833975205532485
 All: -1.610 ± 0.000 χ^2/NDF : 4816442459694

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.511 +/- 0.000

χ^2/NDF : 411439025266603048189945716932608.0/18

Left Out: -29.641 +/- 0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641 +/- 0.000

χ^2/NDF : 1378979.3/20

Left In: 29.641 +/- 0.000

χ^2/NDF : 511825.6/22

Left: -0.789 +/- 0.000 χ^2/NDF : 32668496095314519

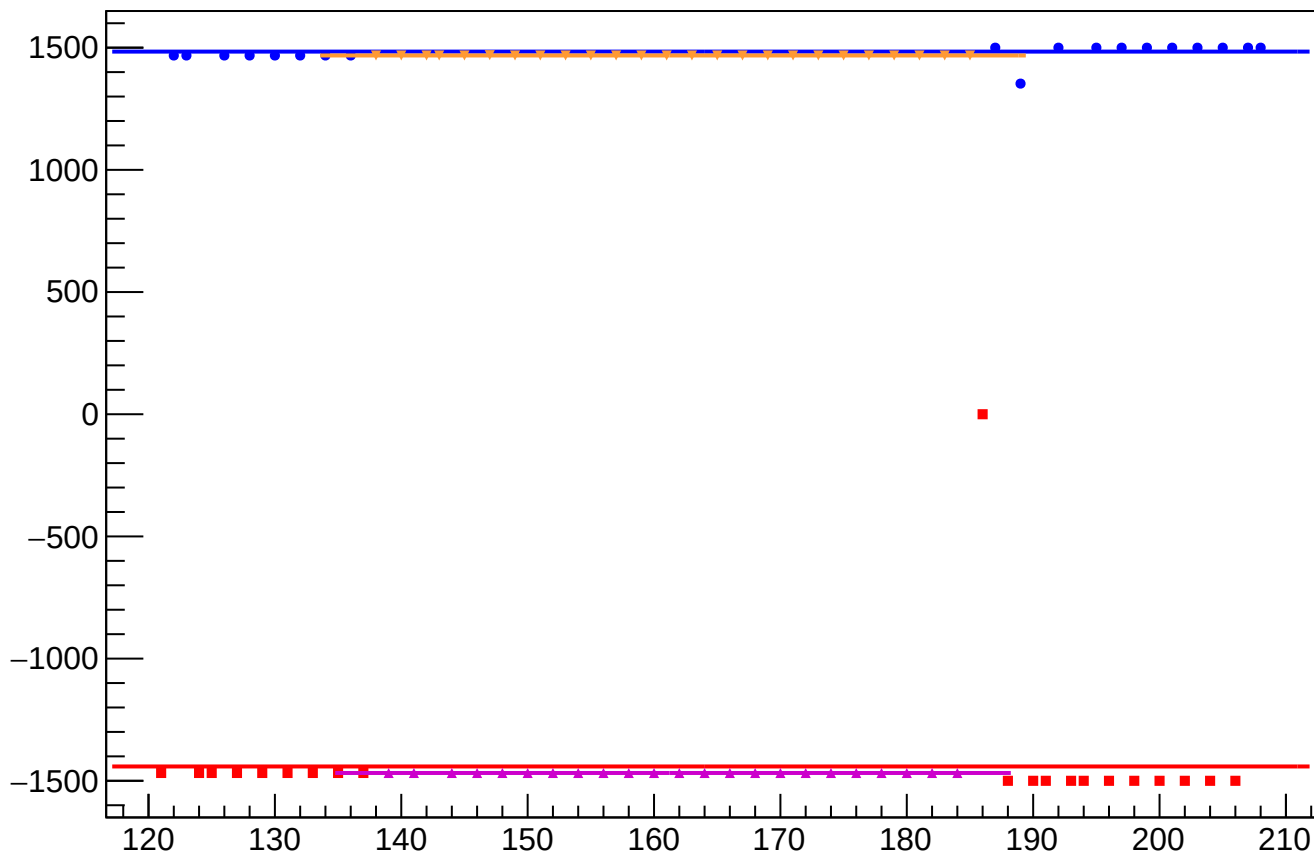
Right: 0.104 +/- 0.000 χ^2/NDF : 20009128945627222

In: 6.765 +/- 0.000 χ^2/NDF : 2450910570833328648

Out: -7.422 +/- 0.000 χ^2/NDF : 25157335052188228

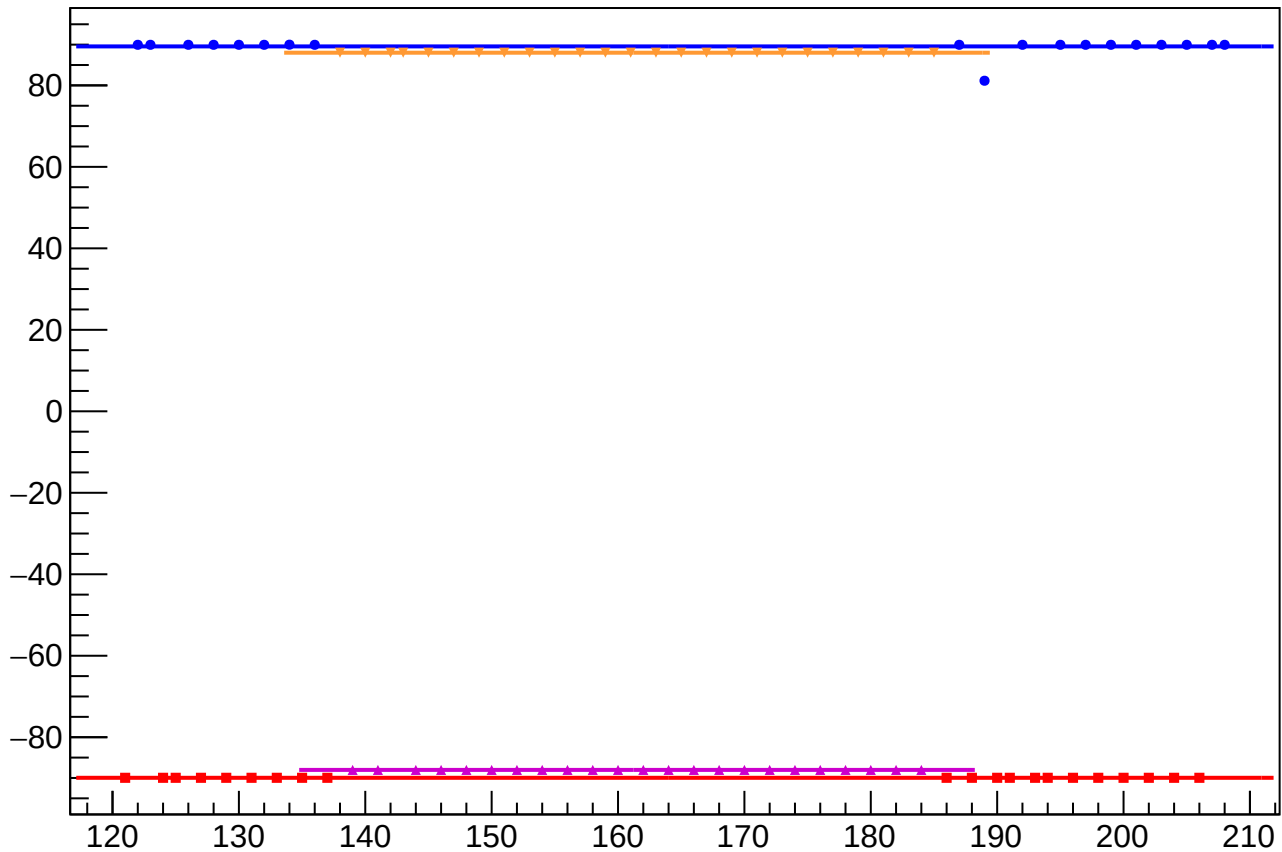
All: -0.449 +/- 0.000 χ^2/NDF : 5268890259915

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1483.928+/-0.000 χ^2/NDF : 1155537212784247511664857980923281408.0/18
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1441.354+/-0.000 χ^2/NDF : 81885902076170497931191322306435612672.0/20
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 31.580+/-0.000 χ^2/NDF : 1298960100290

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.566+/-0.000

χ^2/NDF : 3790406684485380507050727075479552.0/18

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -0.314+/-0.000 χ^2/NDF : 1843088704816903

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 3265707.4/20

In: -19.343+/-0.000 χ^2/NDF : 22091067468913336

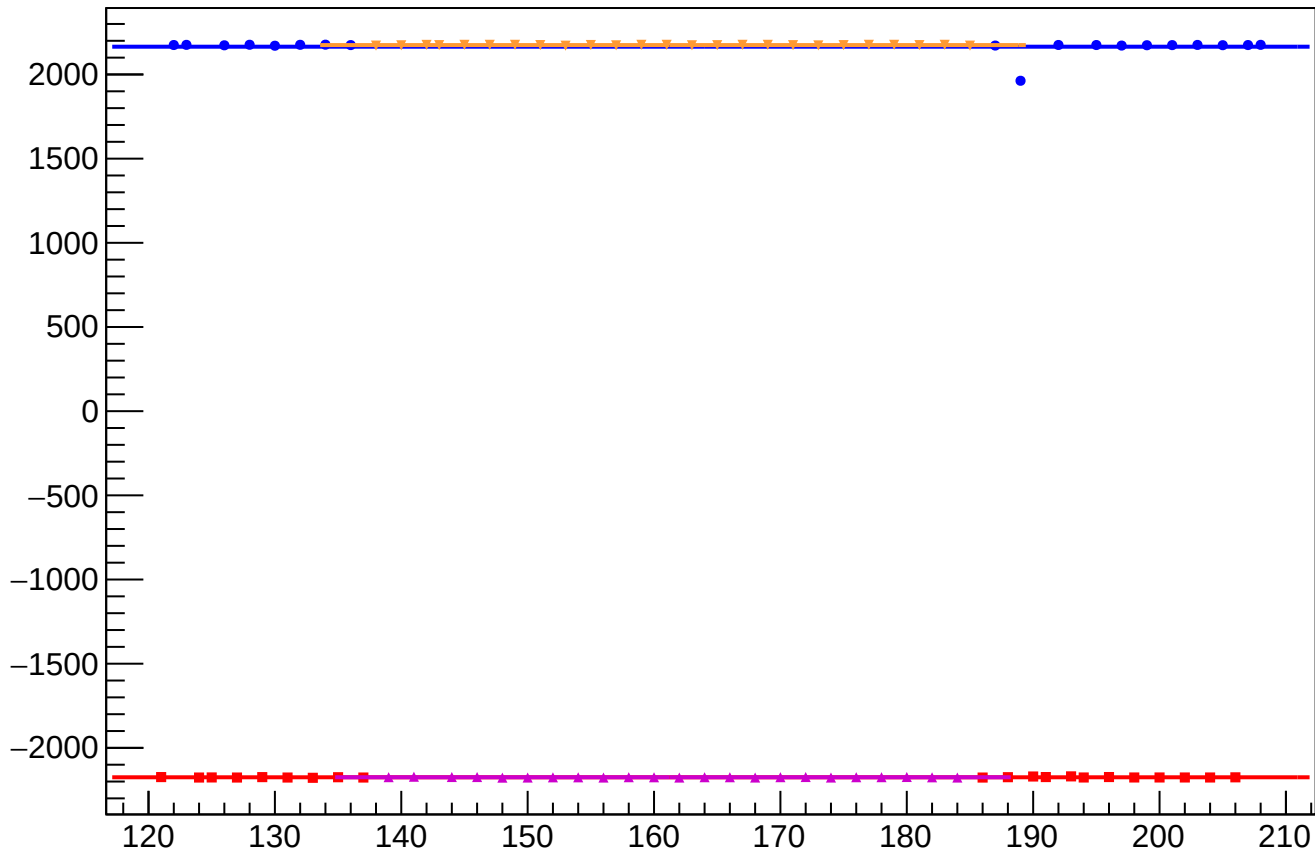
Out: 21.315+/-0.000 χ^2/NDF : 22676187754756096

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

All: 1.331+/-0.000 χ^2/NDF : 47249457731431

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2164.958+/-0.000

χ^2/NDF : 2188095653708624315587542384623222784.0/18

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.712+/-0.000

χ^2/NDF : 4600643160160708104960258634416128.0/20

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

Left: 57.898+/-0.000 χ^2/NDF : 17583418754650851

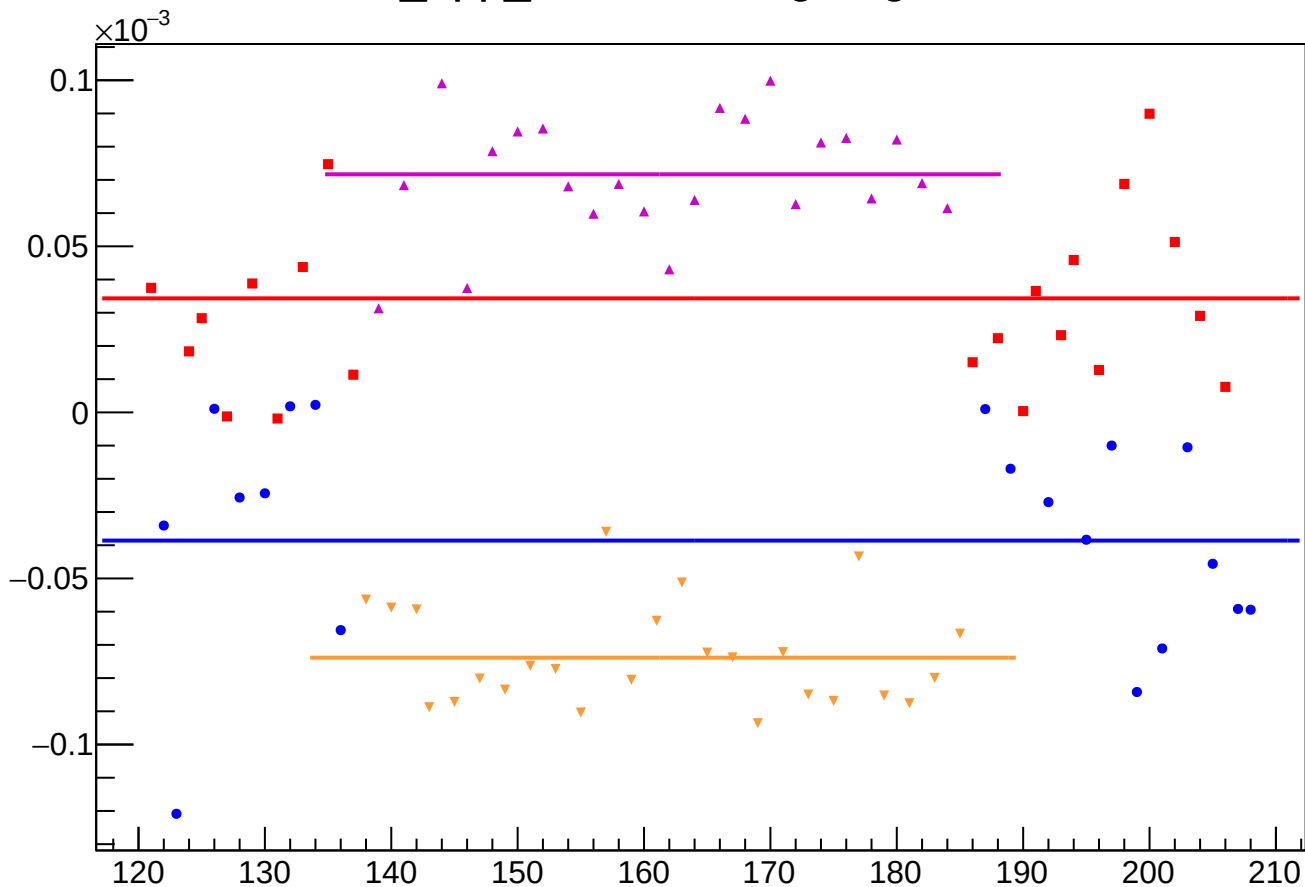
Right: -7.723+/-0.000 χ^2/NDF : 1076979198228143

In: -496.345+/-0.000 χ^2/NDF : 1319082811257997

Out: 544.511+/-0.000 χ^2/NDF : 1354170968725831

All: 32.919+/-0.000 χ^2/NDF : 2835931009669

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 800845618972012297846784.0/18

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: -0.000+/-0.000

χ^2/NDF : 4619046844810414

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000+/-0.000

χ^2/NDF : 9880153917813251171

Right Out: 0.000+/-0.000

χ^2/NDF : 777373102512458730307584.0/20

Out: -0.000+/-0.000

χ^2/NDF : 96068149332697328

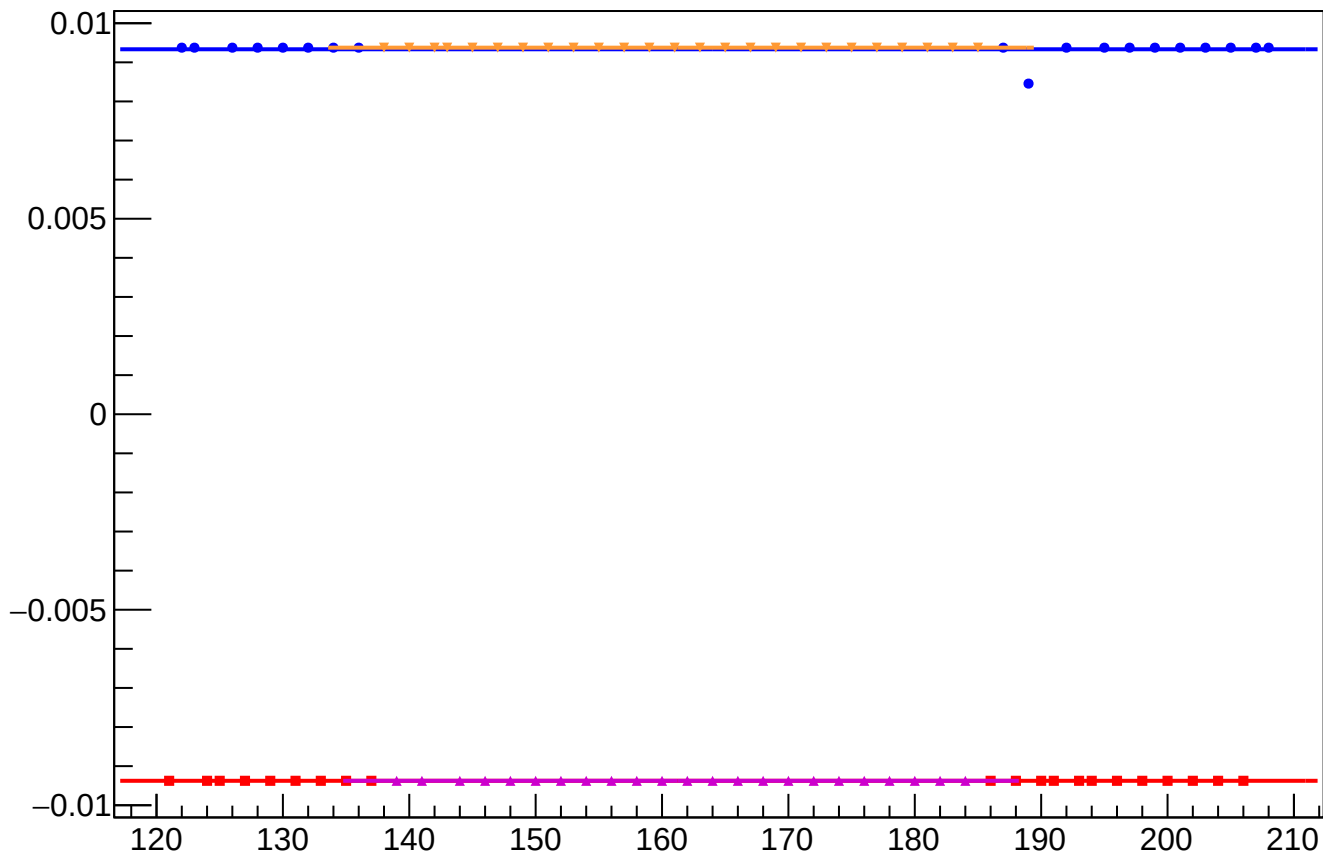
Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000+/-0.000

χ^2/NDF : 2532299432637

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009 $\pm$ 0.000

χ^2/NDF : 0.1/24

Right Out: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/20

Left In: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/22

Left: 0.000 $\pm$ 0.000

χ^2/NDF : 326809514411447718

Right: -0.000 $\pm$ 0.000

χ^2/NDF : 2001675772107045

In: -0.002 $\pm$ 0.000

χ^2/NDF : 245184501662690302

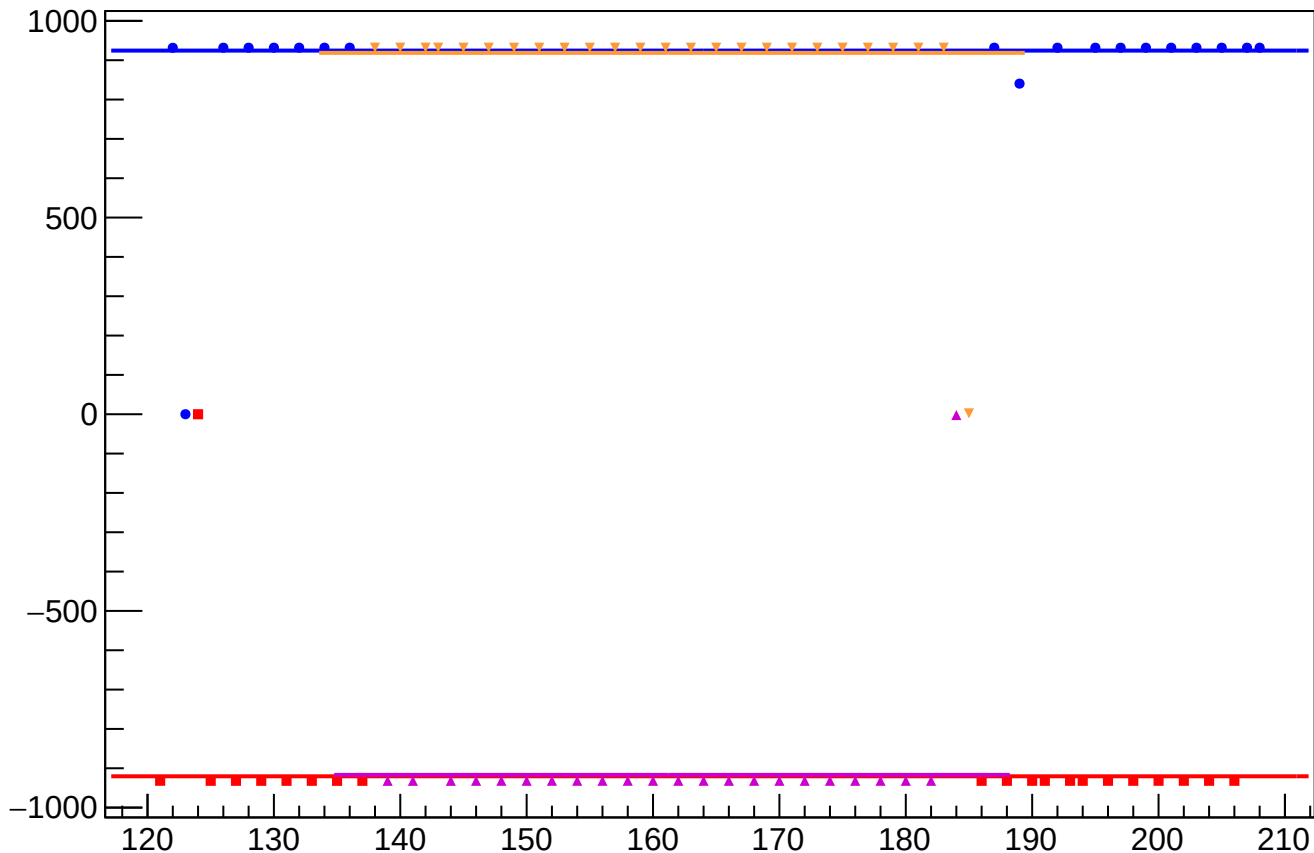
Out: 0.002 $\pm$ 0.000

χ^2/NDF : 251669266571194157

All: 0.000 $\pm$ 0.000

χ^2/NDF : 52708991020168

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 924.447+/-0.000

χ^2/NDF : 3836233459820475590570397393303371776.0/18

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -920.409+/-0.000

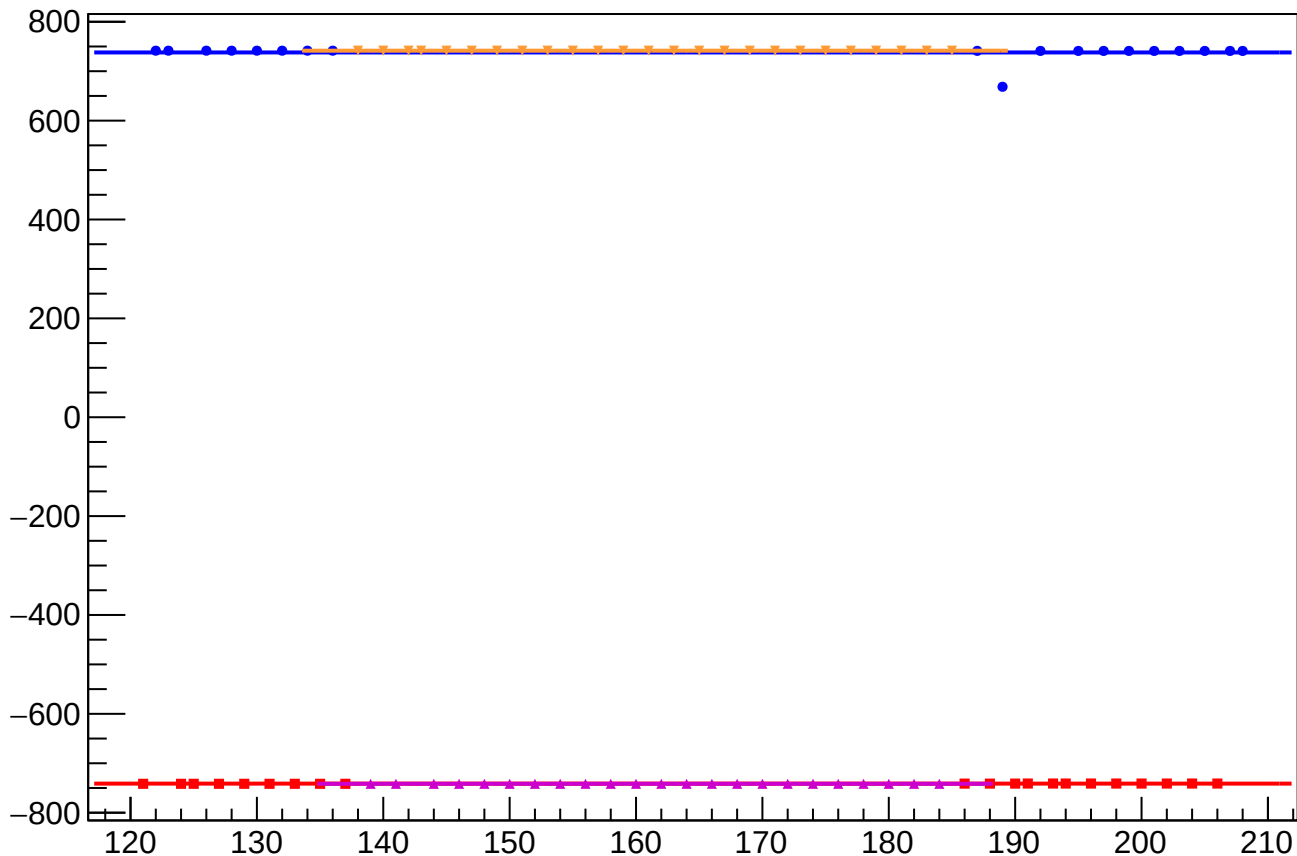
χ^2/NDF : 12006123041554225209656173023262146560.0/20

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

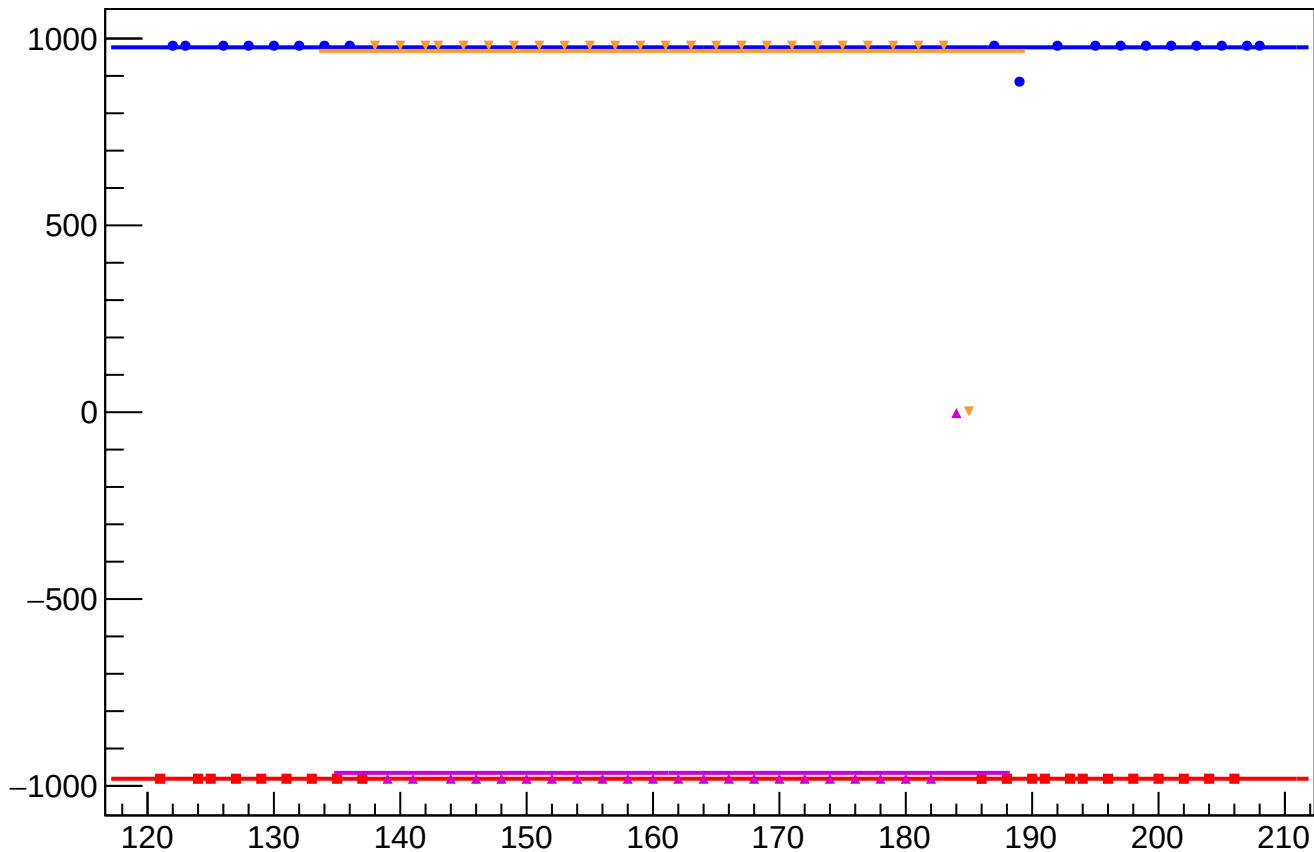
Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018
 Right: 0.809+/-0.000 χ^2/NDF : 19617871931237743
 In: -204.798+/-0.000 χ^2/NDF : 2403088817899289
 Out: 229.376+/-0.000 χ^2/NDF : 2456130511364744
 All: 15.974+/-0.000 χ^2/NDF : 5142275025683

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.938+/-0.000	χ^2/NDF : 257449029585973523215828748515409920.0/18	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -2.594+/-0.000	χ^2/NDF : 1251132114127565
Right Out: -741.185+/-0.000	χ^2/NDF : 54134309969828496423833401556992.0/20	In: -169.372+/-0.000	χ^2/NDF : 1533185018152660
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 185.805+/-0.000	χ^2/NDF : 1573740077923557
	All: 11.231+/-0.000		χ^2/NDF : 3296347789012

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 976.519+/-0.000

χ^2/NDF : 450655130738622036092167746991685632.0/18

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.823+/-0.000

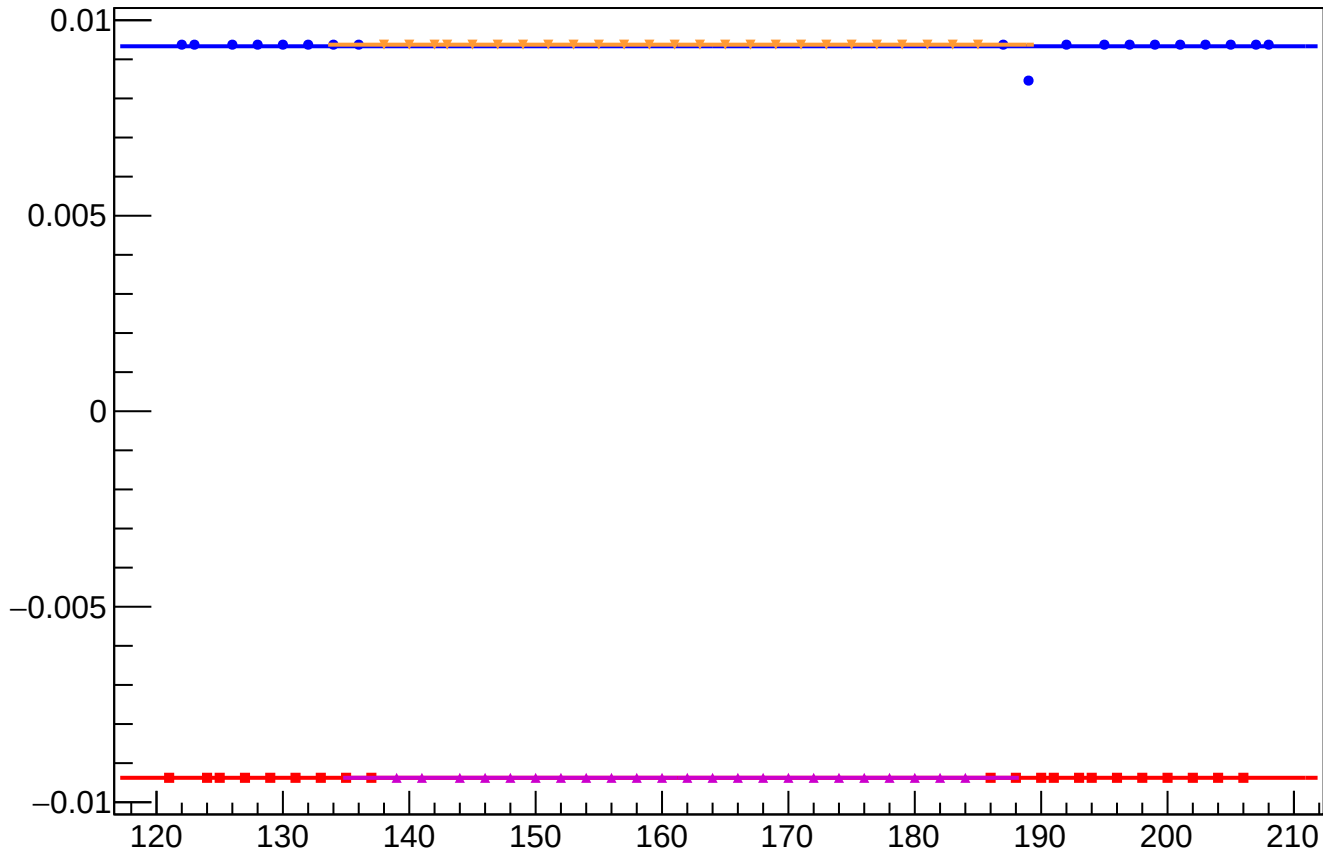
χ^2/NDF : 3267623981370471692182401056768.0/20

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 15.178+/-0.000 χ^2/NDF : 571497589534

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009 $\pm$ 0.000

χ^2/NDF : 0.1/24

Right Out: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/20

Left In: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/22

Left: 0.000 $\pm$ 0.000

χ^2/NDF : 326809514411447718

Right: -0.000 $\pm$ 0.000

χ^2/NDF : 2001675772107045

In: -0.002 $\pm$ 0.000

χ^2/NDF : 245184501662690302

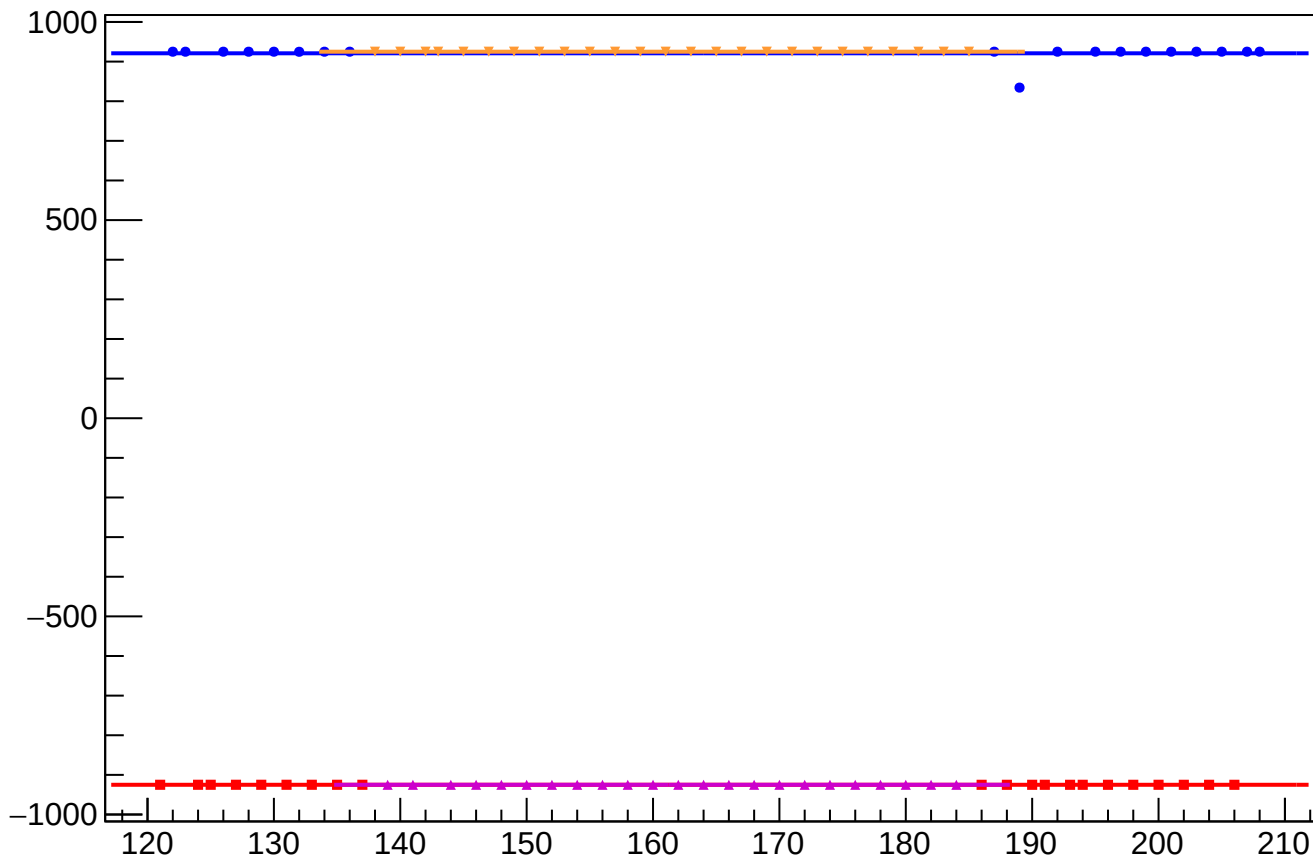
Out: 0.002 $\pm$ 0.000

χ^2/NDF : 251669266571194157

All: 0.000 $\pm$ 0.000

χ^2/NDF : 52708991020168

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.943+/-0.000 χ^2/NDF : 400380759699512062843030744065900544.0/18

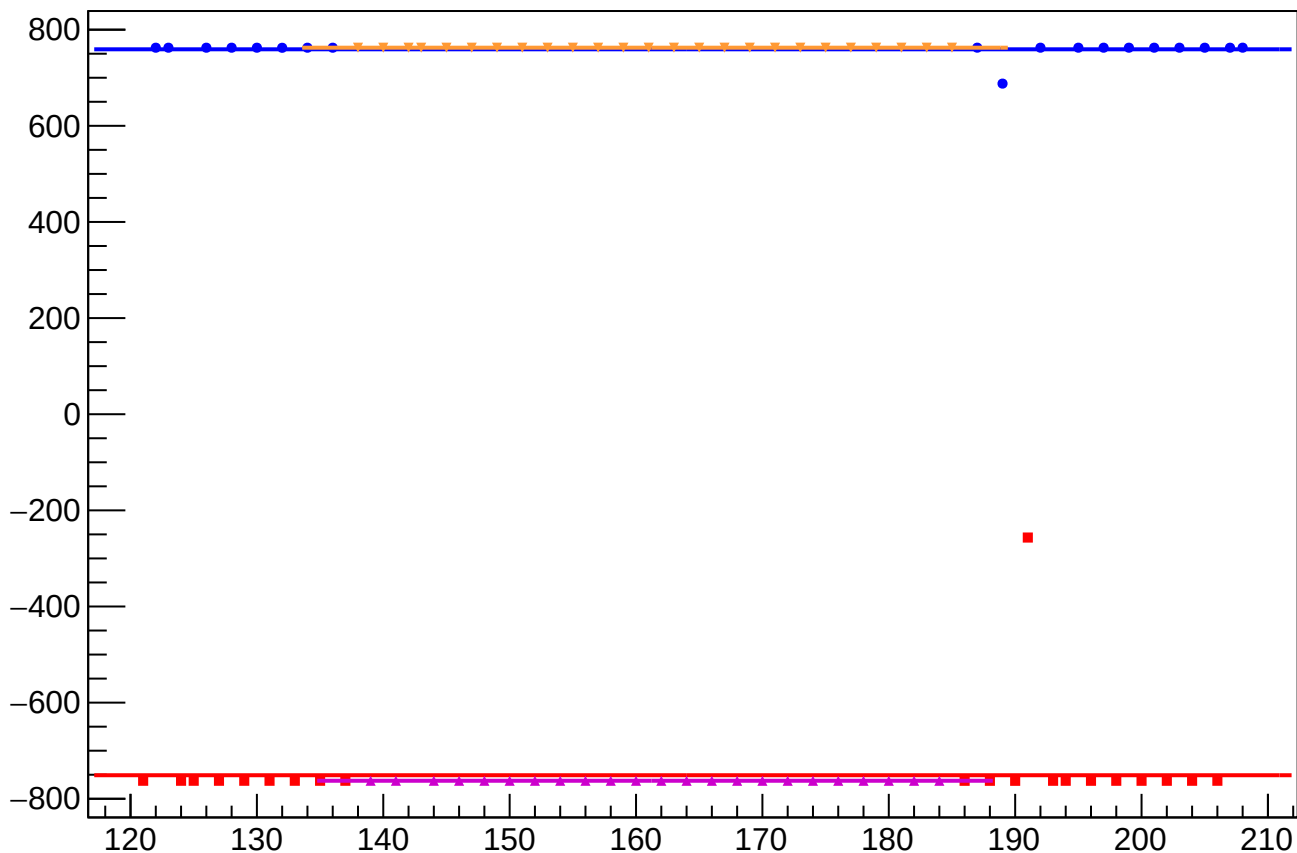
Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.997+/-0.000 χ^2/NDF : 861698478877562130081169539072.0/20

Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22

All: 14.009+/-0.000 χ^2/NDF : 5131138656983

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 759.176+/-0.000 χ^2/NDF : 271879760829879660672924421460066304.0/18

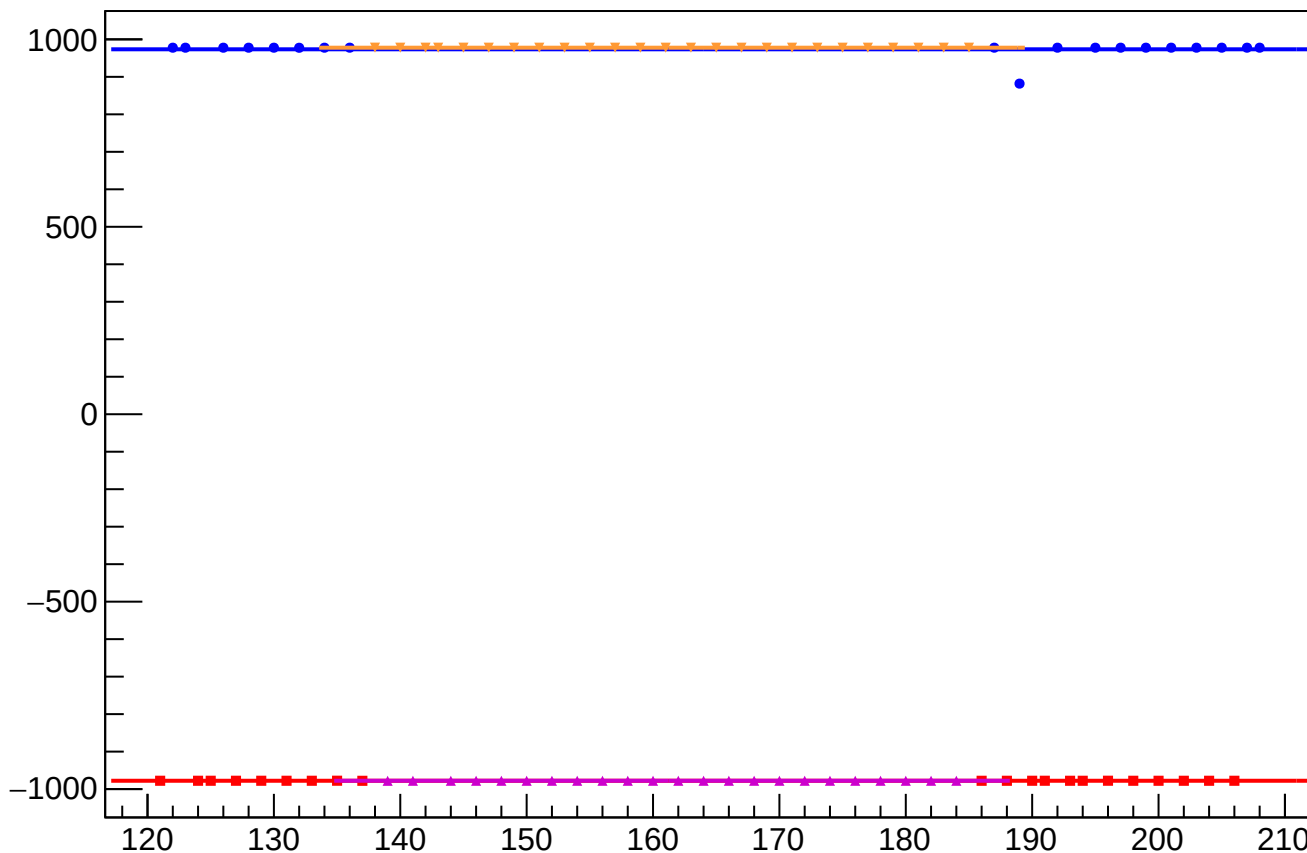
Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -751.036+/-0.000 χ^2/NDF : 6505116593699807576131000056909135872.0/20

Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22

All: 13.737+/-0.000 χ^2/NDF : 3473194971896

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.479+/-0.000 χ^2/NDF : 447525266667319403509411812915281920.0/18

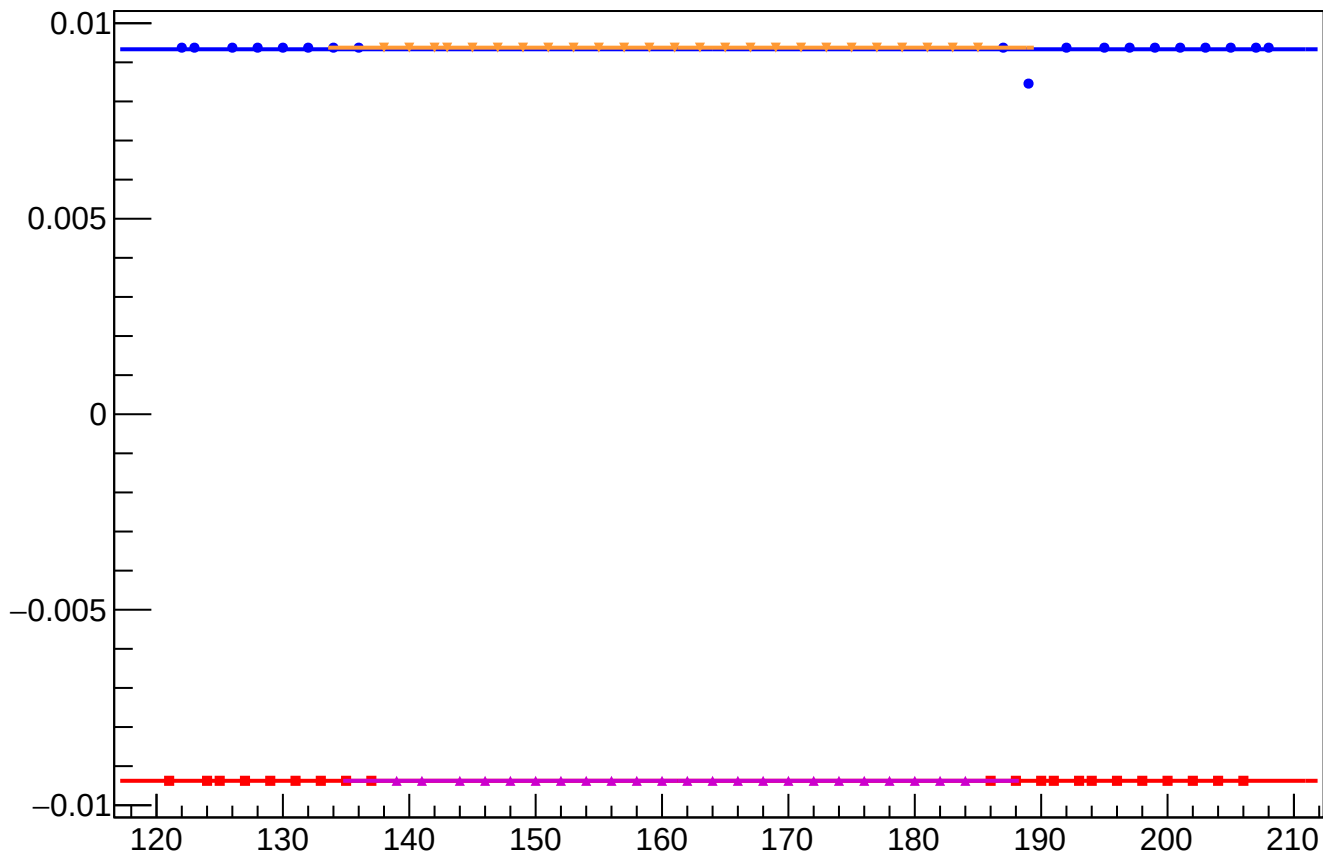
Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.755+/-0.000 χ^2/NDF : 1825510370172774799142811598848.0/20

Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22

All: 14.811+/-0.000 χ^2/NDF : 5733141622165

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

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 : 2001675772107045

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

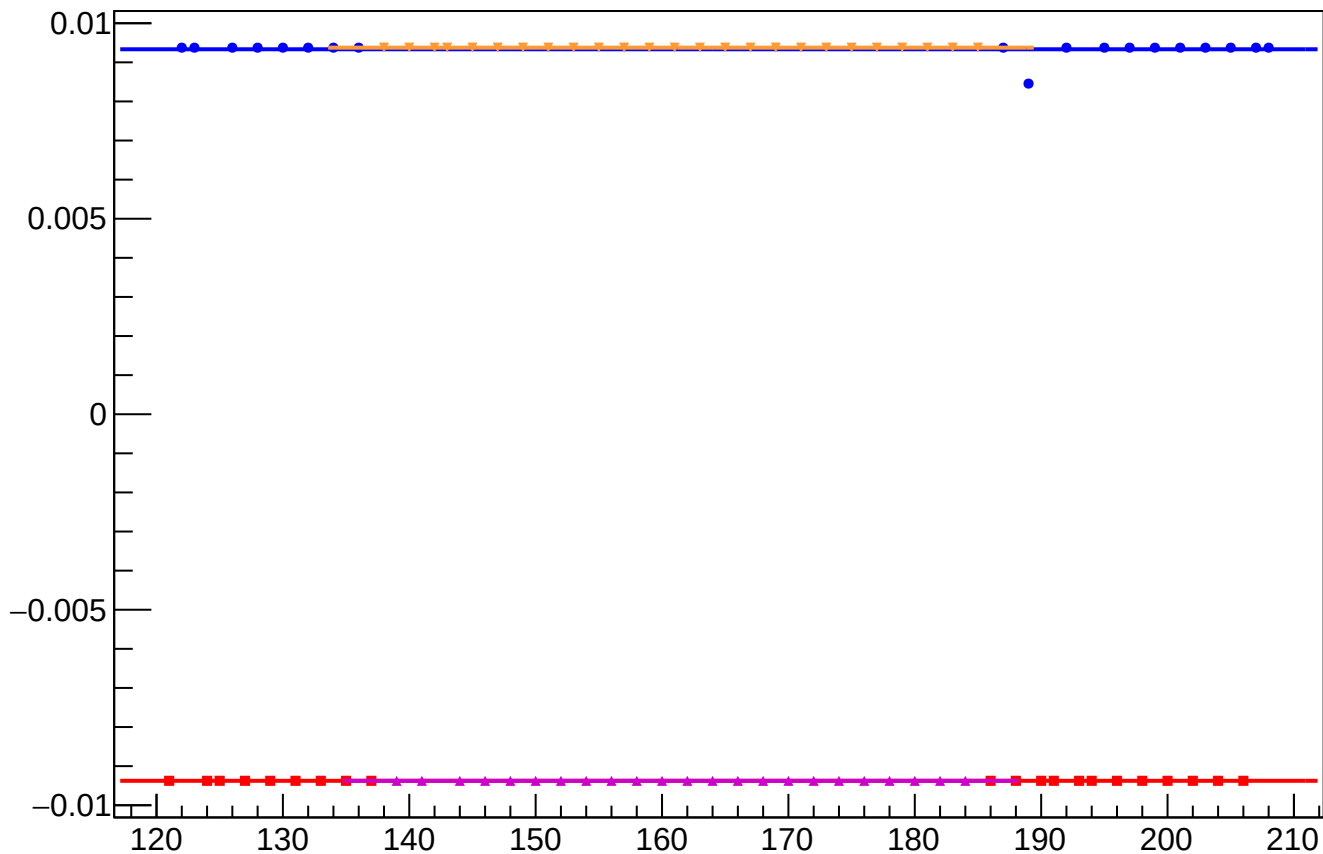
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: 0.000+/-0.000

χ^2/NDF : 52708991020168

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

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 : 2001675772107045

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

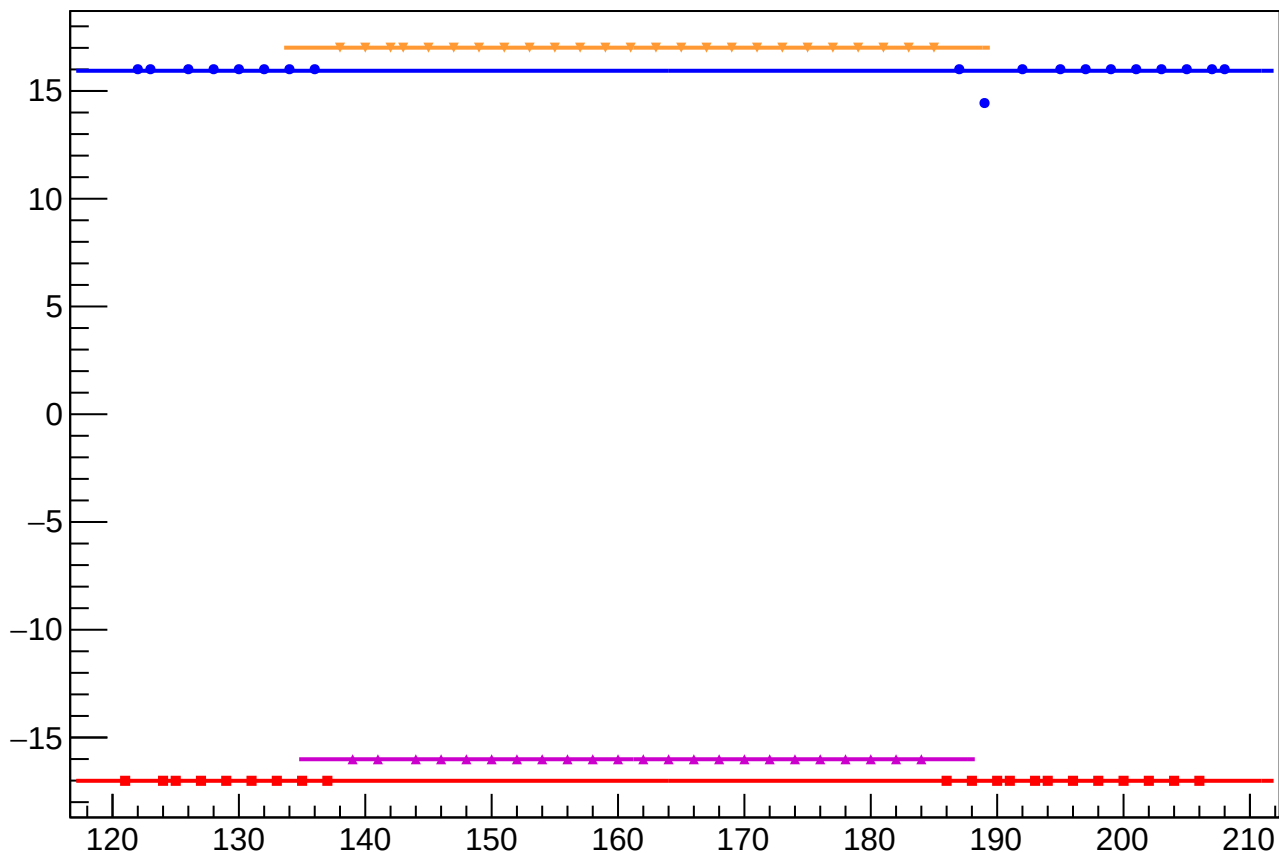
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: 0.000+/-0.000

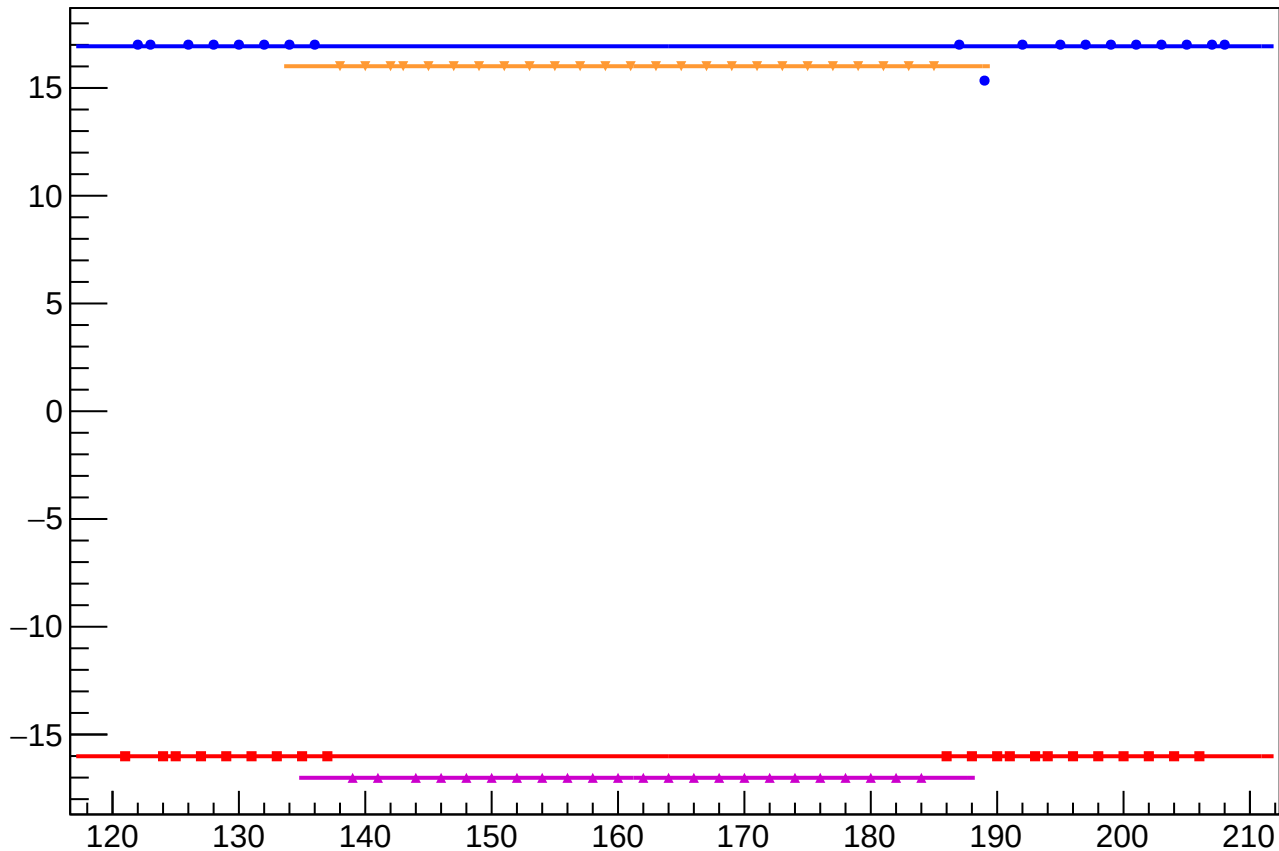
χ^2/NDF : 52708991020168

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 15.938 ± 0.000 $\chi^2/\text{NDF}: 119895360382147696561057804845056.0/18$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 15312521325834853117067264.0/20$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.321 ± 0.000 $\chi^2/\text{NDF}: 15545309630140$

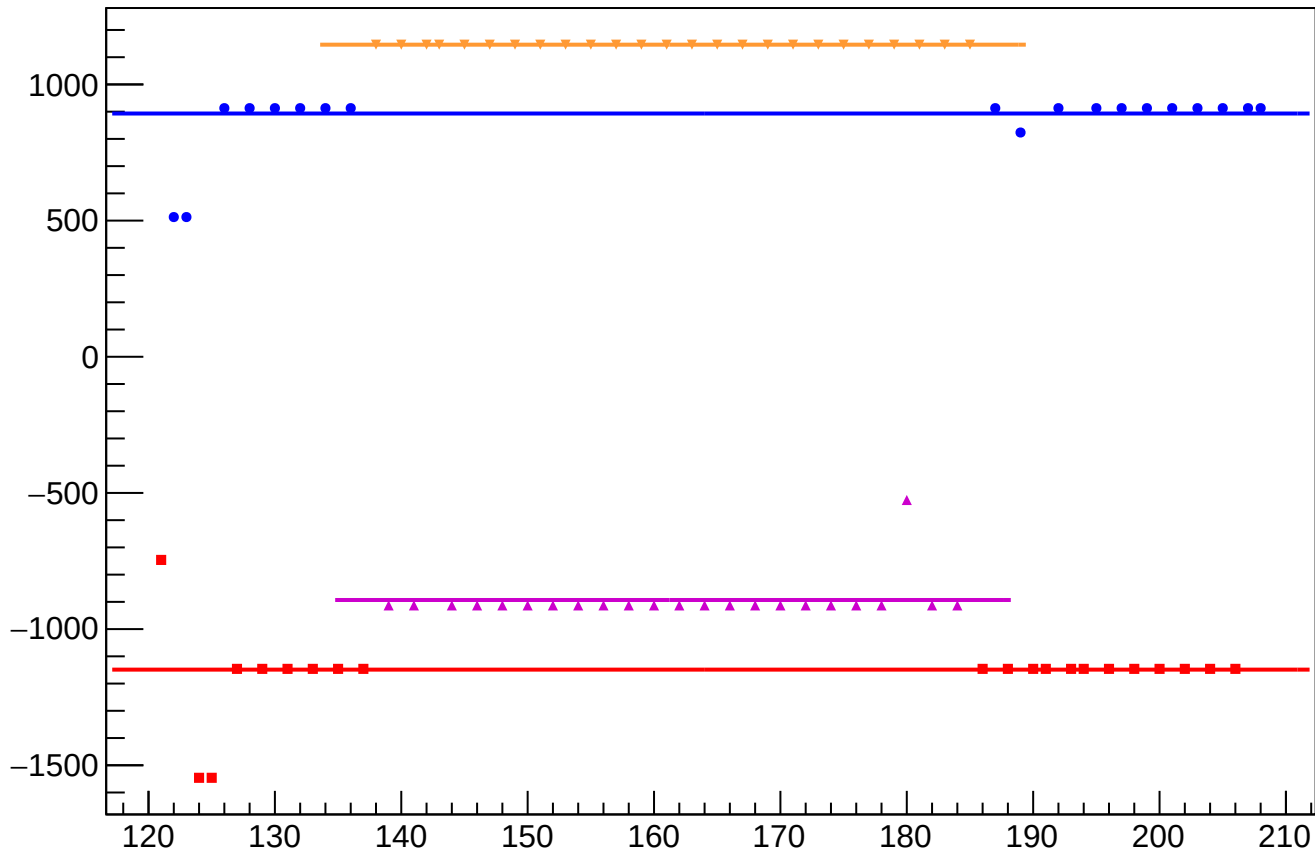
IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 16.935 ± 0.000 $\chi^2/\text{NDF}: 135488894634439819872184213438464.0/18$
 Left Out: 16.009 ± 0.000 $\chi^2/\text{NDF}: 89740.8/24$
 Right Out: -16.009 ± 0.000 $\chi^2/\text{NDF}: 262482.4/20$
 Left In: -17.009 ± 0.000 $\chi^2/\text{NDF}: 115033472633445654986752.0/22$

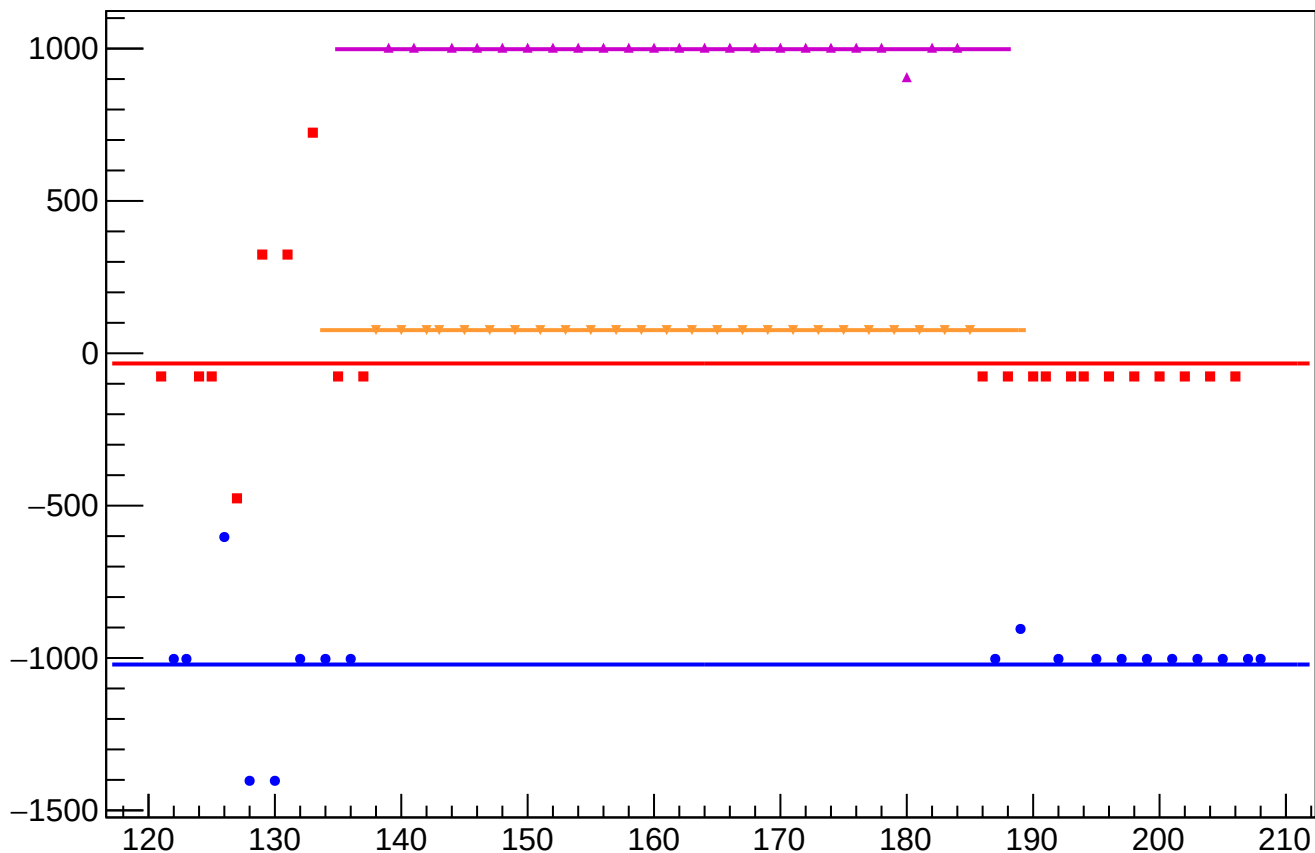
Left: 0.042 ± 0.000 $\chi^2/\text{NDF}: 994312337700629058$
 Right: 0.441 ± 0.000 $\chi^2/\text{NDF}: 62066915067641415$
 In: -3.679 ± 0.000 $\chi^2/\text{NDF}: 799225018525802169$
 Out: 3.914 ± 0.000 $\chi^2/\text{NDF}: 730415507485541130$
 All: 0.196 ± 0.000 $\chi^2/\text{NDF}: 16152050139703$

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right In: 893.235+/-0.000 χ^2/NDF : 7162803620615259975947230001085022208.0/18
 Right: -129.124+/-0.000 χ^2/NDF : 24050638376779
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 In: -202.289+/-0.000 χ^2/NDF : 2255265219148355
 Right Out: -1148.804+/-0.000 χ^2/NDF : 13751725725163020707524462697917710336.0/20
 Out: 285.925+/-0.000 χ^2/NDF : 3783593518782002
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 45.962+/-0.000 χ^2/NDF : 6396761515879

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1021.365+/-0.000

χ^2/NDF : 23307181010837152201373985787760082944.0/18

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -33.391+/-0.000

χ^2/NDF : 44959920210462147520212989259089444864.0/20

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 124.495+/-0.000 χ^2/NDF : 298344215513