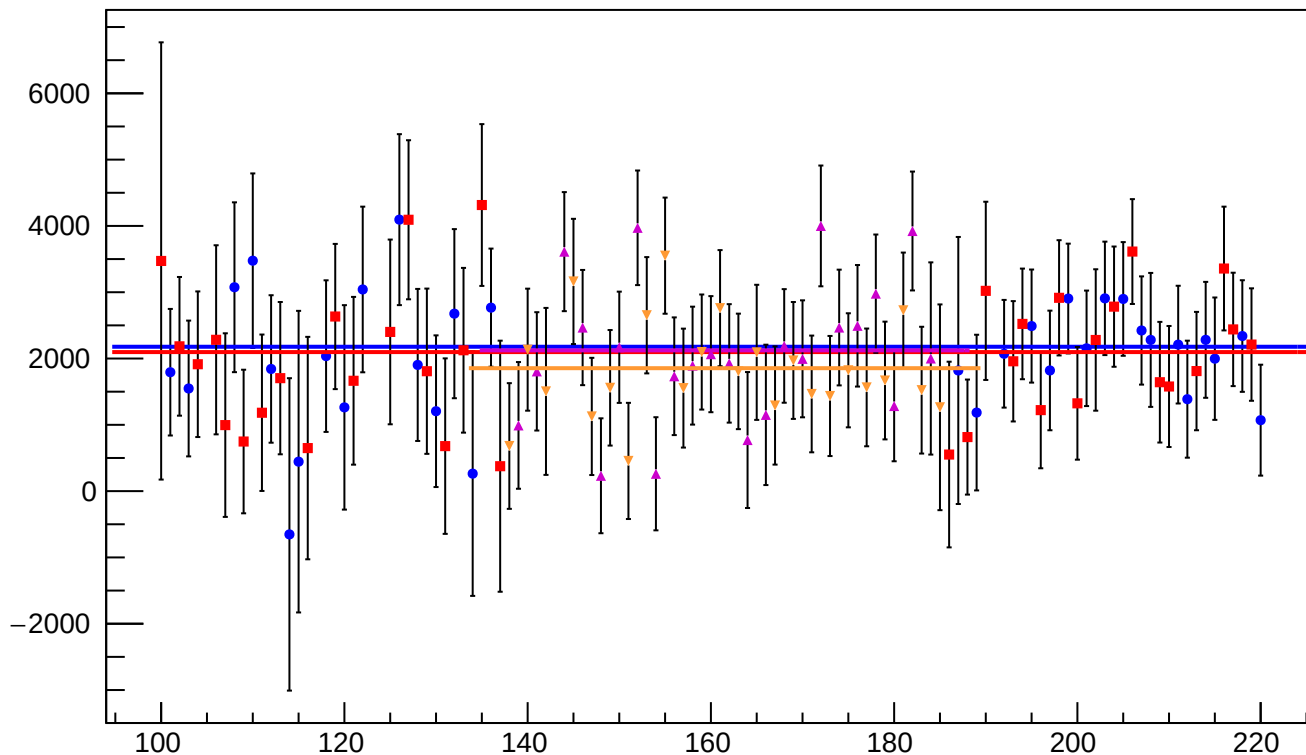


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2177.670+/-178.193

Left Out: 1854.267+/-187.405

Right Out: 2097.149+/-178.658

Left In: 2123.138+/-188.684

χ^2/NDF : 15.6/32

χ^2/NDF : 15.1/23

χ^2/NDF : 26.2/34

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2137.514+/-126.166

In: 2151.962+/-129.552

Out: 1981.508+/-129.312

All: 2066.578+/-91.522

χ^2/NDF : 48.1/46

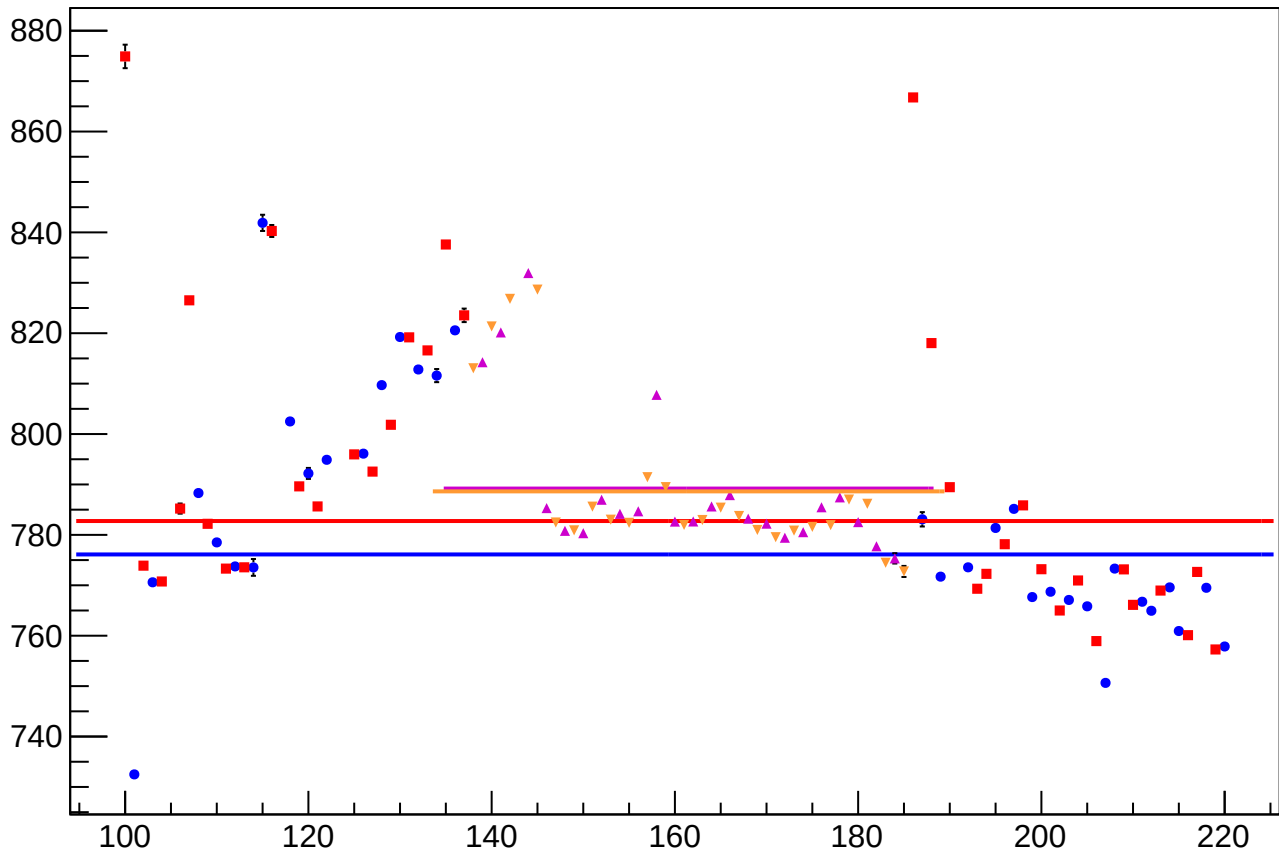
χ^2/NDF : 41.9/67

χ^2/NDF : 47.7/55

χ^2/NDF : 42.2/58

χ^2/NDF : 90.7/114

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.119 $\pm$ 0.126 χ^2 /NDF: 25704.1/32

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

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

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

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

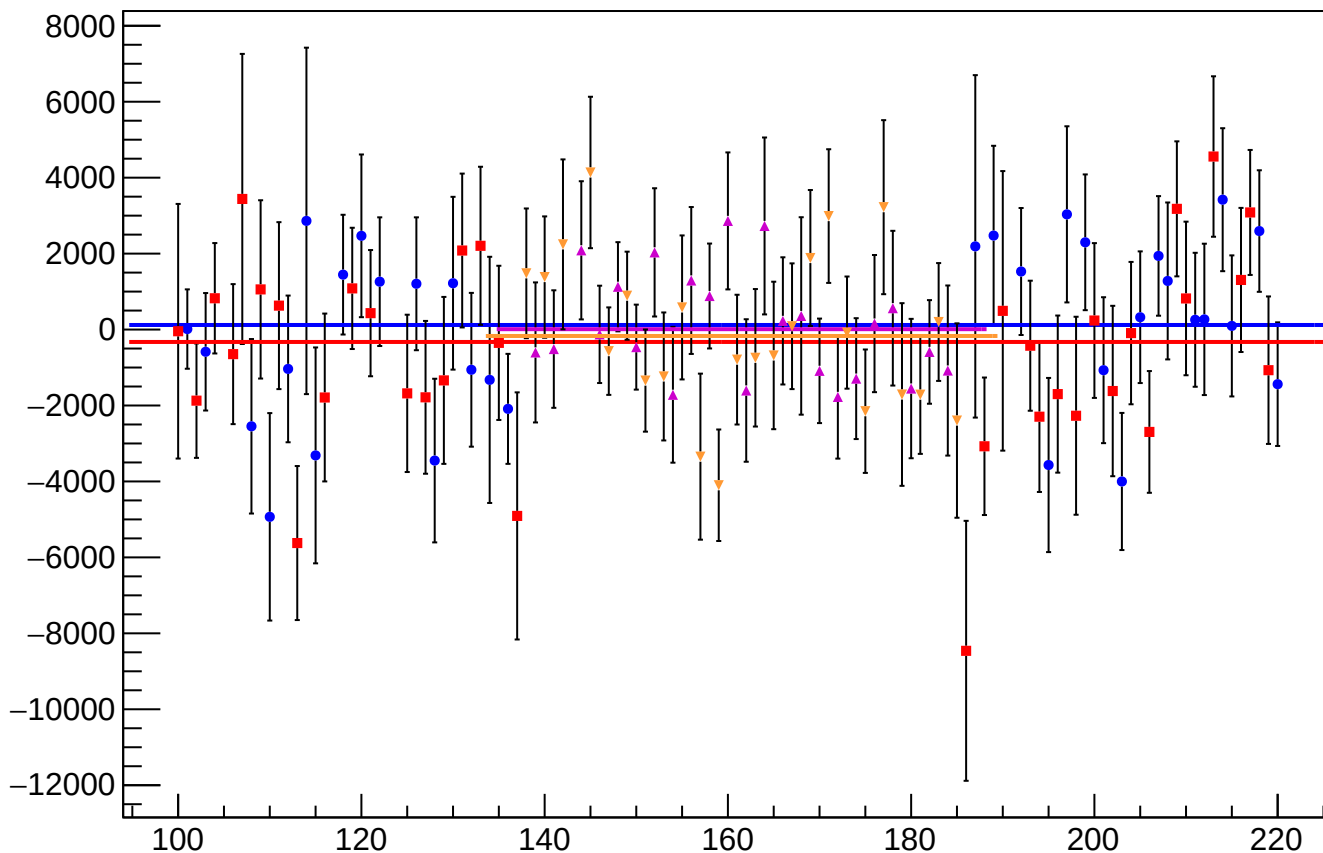
Right: 779.424 $\pm$ 0.089 χ^2 /NDF: 61458.7/67

In: 782.279 $\pm$ 0.092 χ^2 /NDF:42116.2/55

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

All: 783.916 $\pm$ 0.065 χ^2 /NDF: 89639.3/114

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 120.474+/-327.019 χ^2/NDF : 37.0/32

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

Right Out: -326.625+/-338.947 χ^2/NDF : 44.8/34

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

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

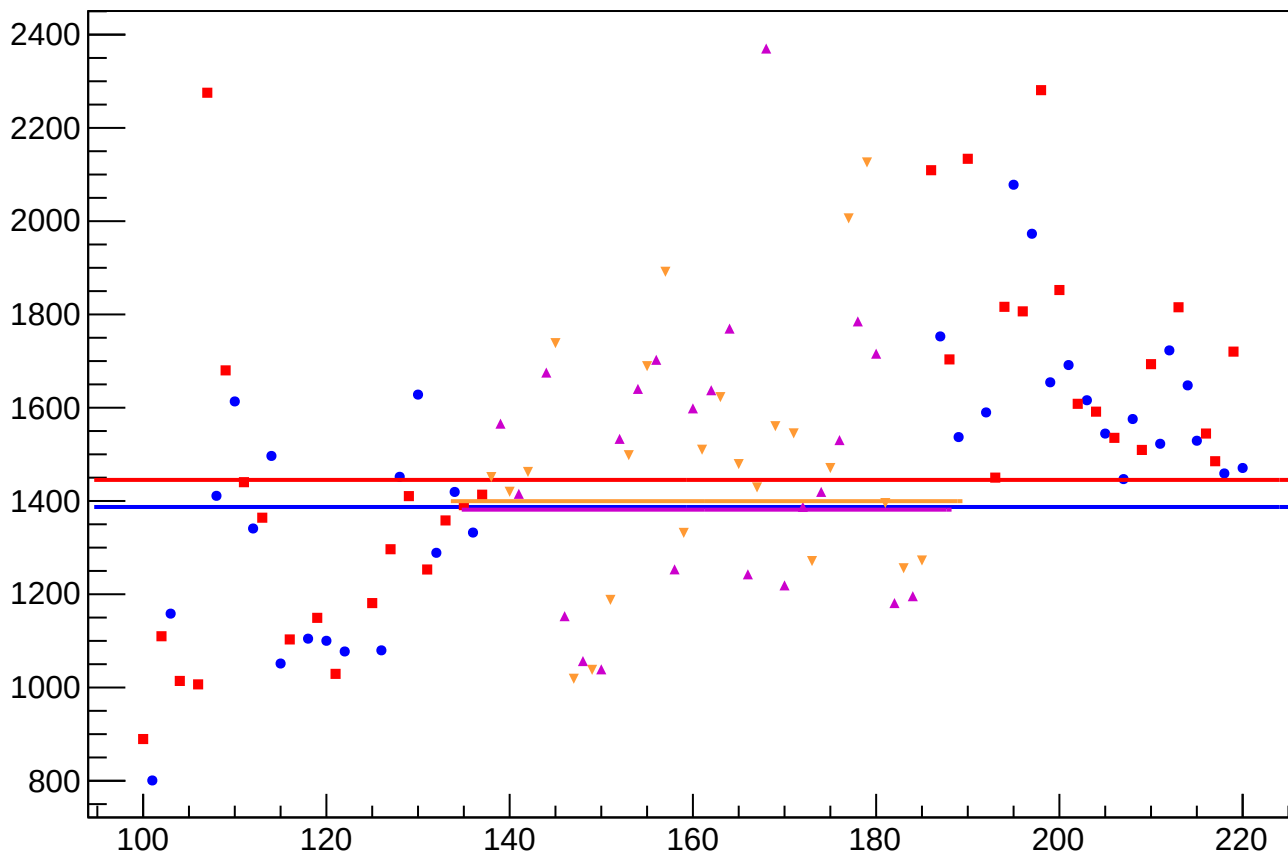
Right: -95.070+/-235.341 χ^2/NDF : 82.7/67

In: 67.074+/-234.959 χ^2/NDF : 51.2/55

Out: -248.233+/-240.181 χ^2/NDF : 74.9/58

All: -87.115+/-167.957 χ^2/NDF : 127.1/114

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1387.128 $\pm$ 0.231 χ^2 /NDF: 1628874.6/32

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

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

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

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

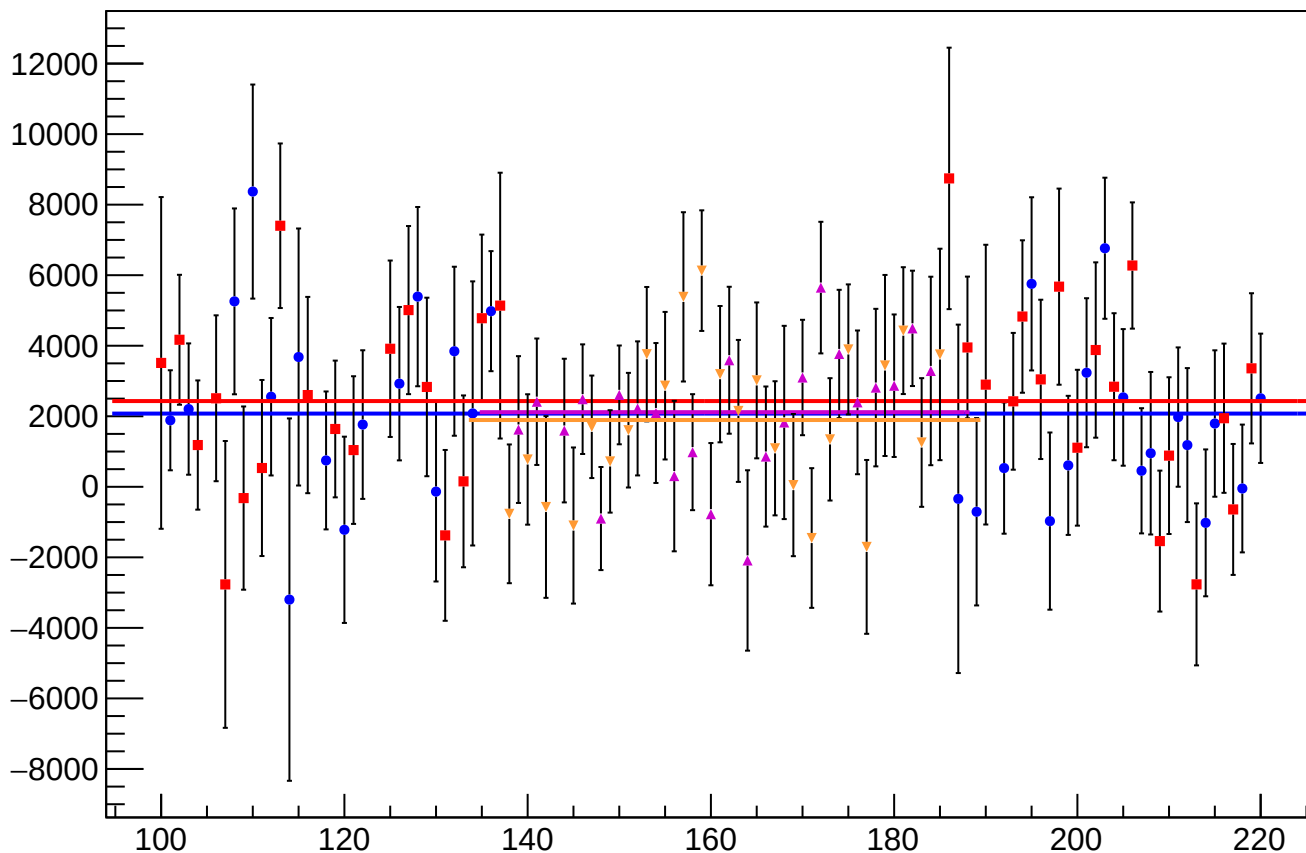
Right: 1415.120 $\pm$ 0.166 χ^2 /NDF: 3301210.6/67

In: 1384.337 $\pm$ 0.166 χ^2 /NDF:2905663.9/55

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

All: 1402.992 $\pm$ 0.119 χ^2 /NDF: 5710537.4/11

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2076.025 $\pm$ 380.043 χ^2 /NDF: 32.2/32

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

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

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

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

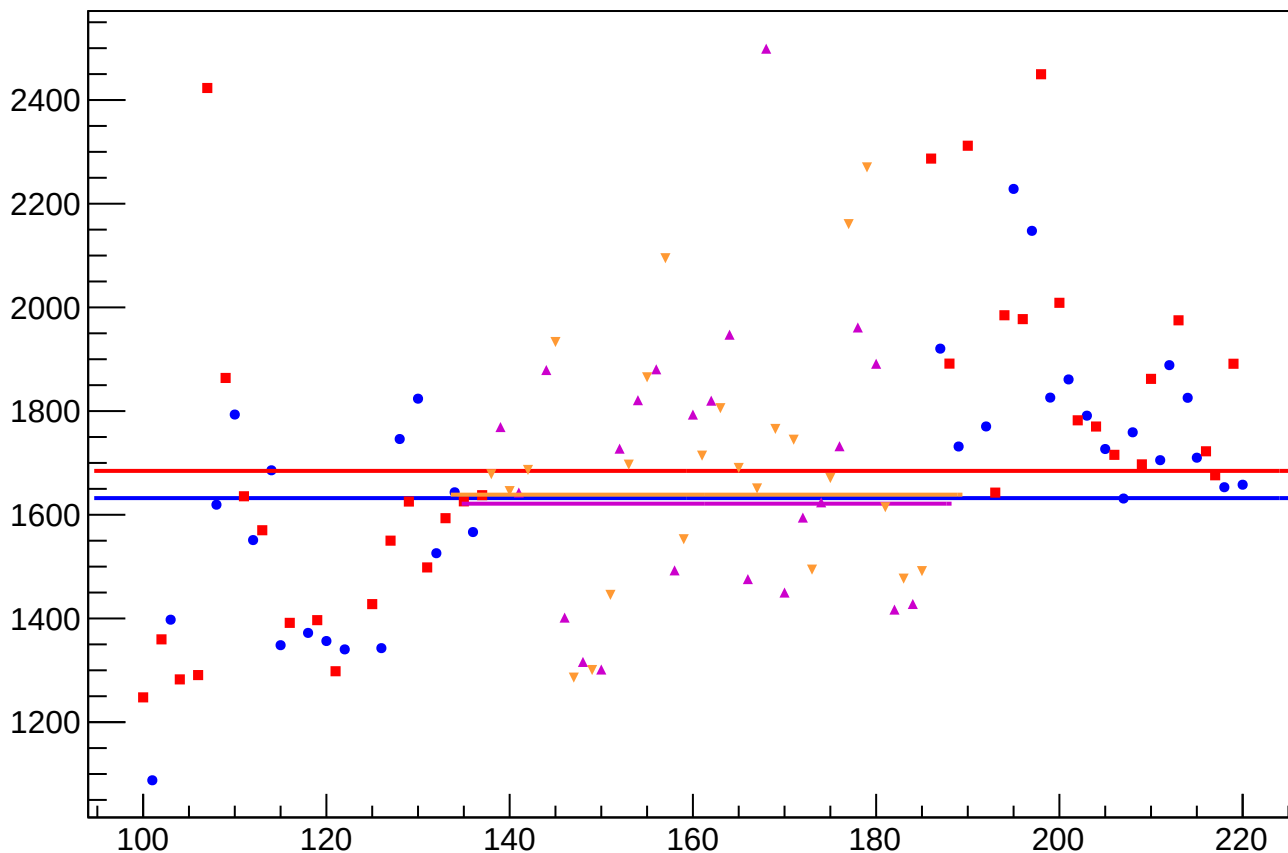
Right: 2248.534 $\pm$ 272.436 χ^2 /NDF: 73.0/67

In: 2095.398 $\pm$ 273.196 χ^2 /NDF:51.0/55

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

All: 2129.628 $\pm$ 194.768 χ^2 /NDF: 118.2/114

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1632.148 $\pm$ 0.269 χ^2 /NDF: 840387.0/32

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

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

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

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

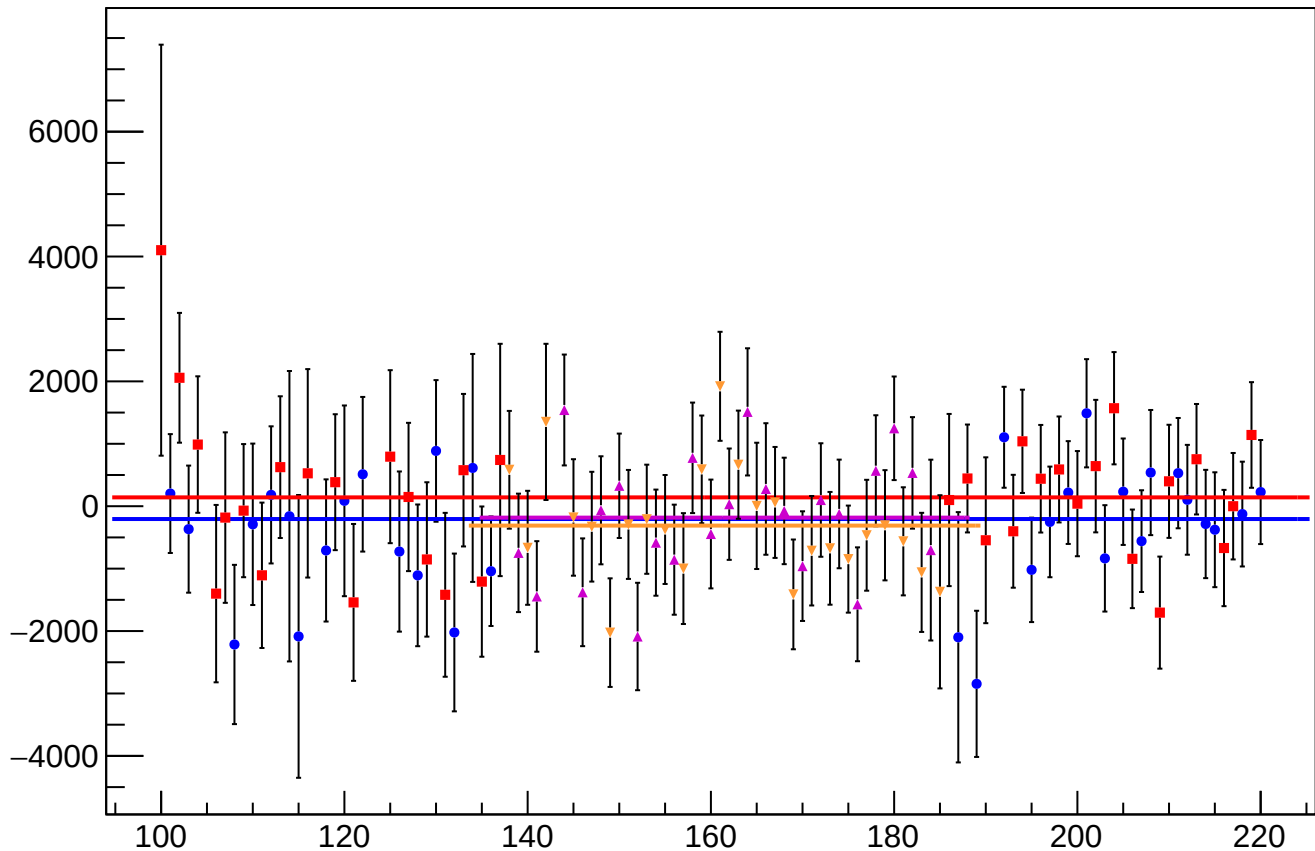
Right: 1657.667 $\pm$ 0.193 χ^2 /NDF: 1814256.4/67

In: 1626.962 $\pm$ 0.193 χ^2 /NDF: 1616467.6/55

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

All: 1644.175 $\pm$ 0.138 χ^2 /NDF: 3273455.2/11

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -205.356 $\pm$ 176.951 χ^2/NDF : 25.3/32

Left Out: -310.563 $\pm$ 186.538 χ^2/NDF : 20.0/23

Right Out: 141.502 $\pm$ 177.126 χ^2/NDF : 27.3/34

Left In: -182.895 $\pm$ 187.817 χ^2/NDF : 26.1/22

Left: -247.165 $\pm$ 132.352 χ^2/NDF : 46.4/46

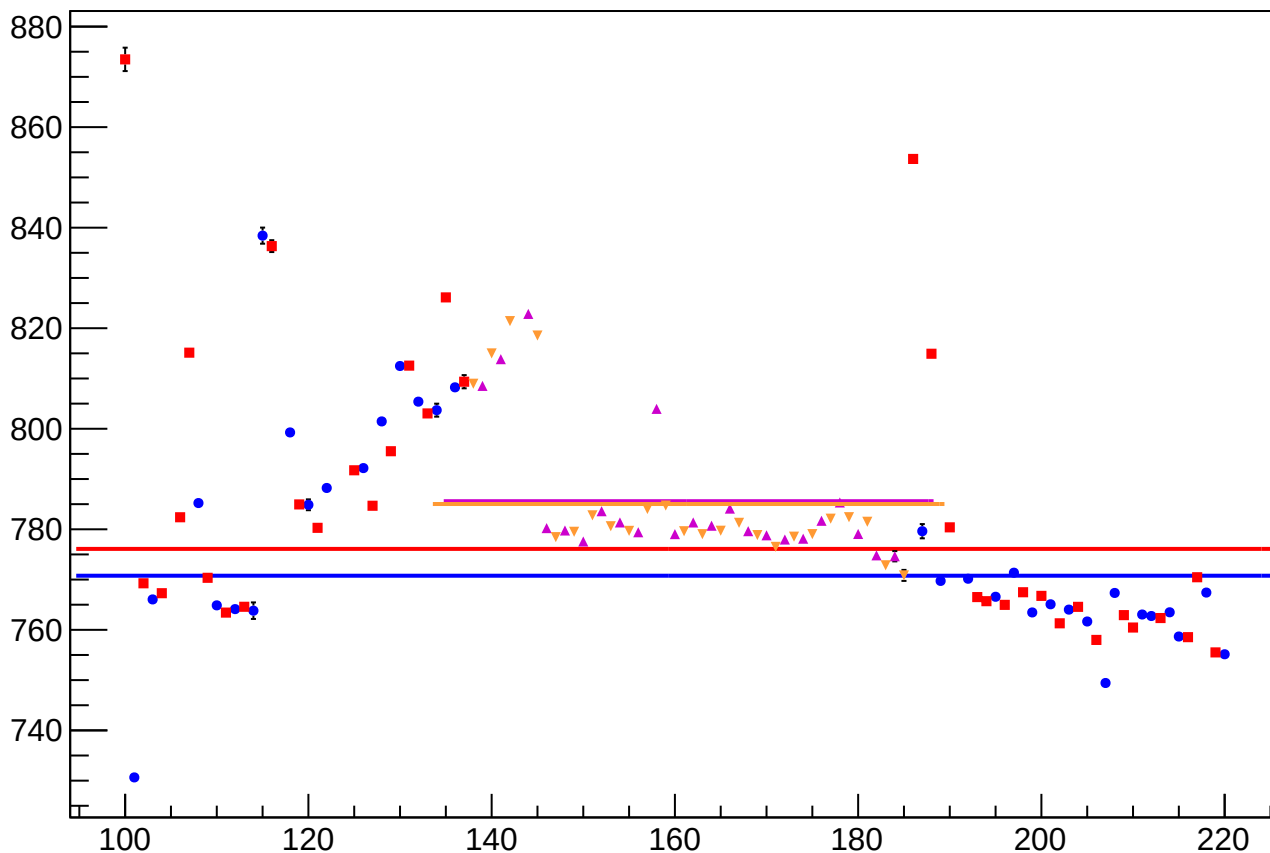
Right: -32.098 $\pm$ 125.185 χ^2/NDF : 54.5/67

In: -194.794 $\pm$ 128.794 χ^2/NDF : 51.4/55

Out: -72.839 $\pm$ 128.445 χ^2/NDF : 50.5/58

All: -133.651 $\pm$ 90.947 χ^2/NDF : 102.3/114

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 770.766 $\pm$ 0.125 χ^2 /NDF: 21736.3/32

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

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

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

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

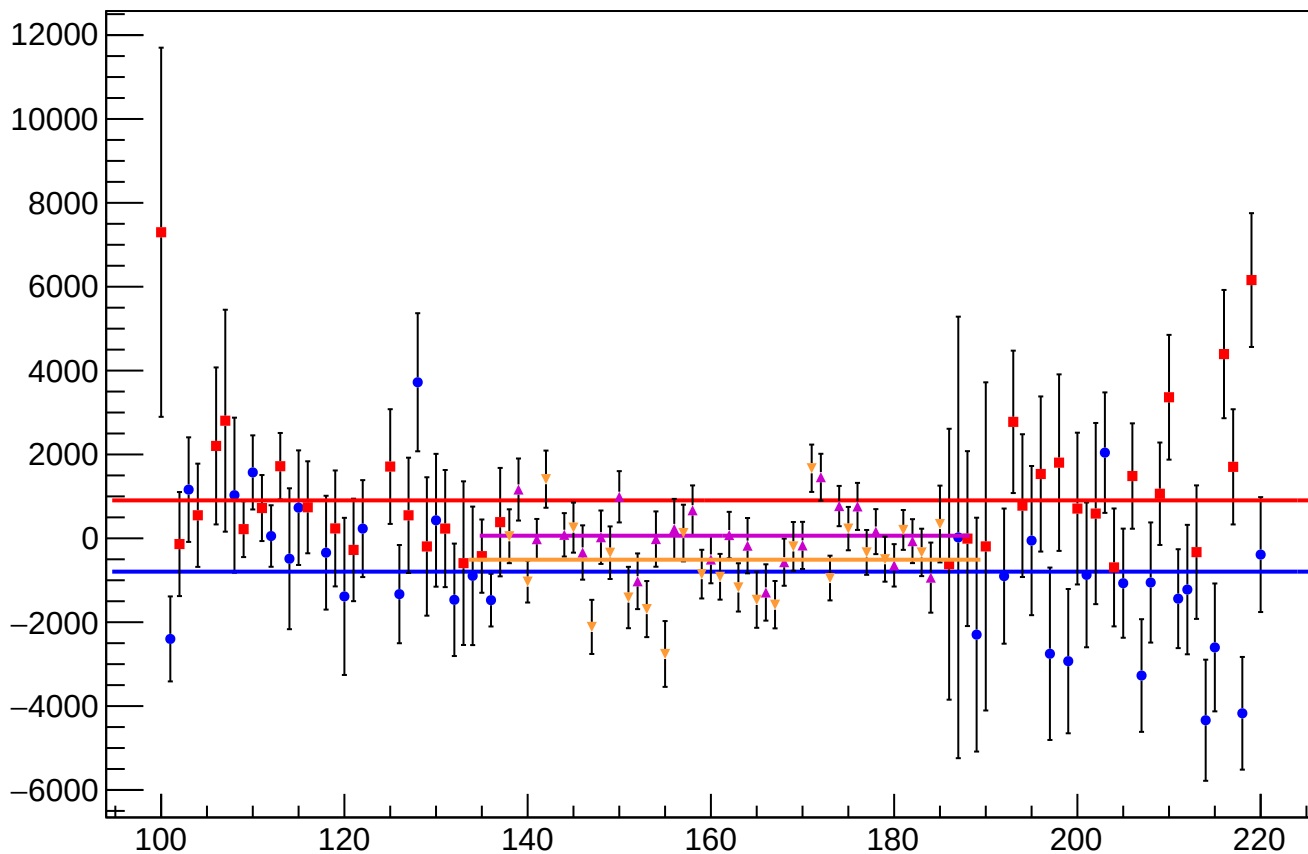
Right: 773.431 $\pm$ 0.089 χ^2 /NDF: 53978.3/67

In: 777.738 $\pm$ 0.091 χ^2 /NDF:37712.3/55

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

All: 779.040 $\pm$ 0.064 χ^2 /NDF: 81231.7/114

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -794.252 ± 226.467 $\chi^2/\text{NDF}: 51.0/32$

Left Out: -509.311 ± 121.190 $\chi^2/\text{NDF}: 60.5/23$

Right Out: 904.953 ± 226.375 $\chi^2/\text{NDF}: 34.7/34$

Left In: 62.768 ± 122.045 $\chi^2/\text{NDF}: 28.8/22$

Left: -225.283 ± 85.995 $\chi^2/\text{NDF}: 100.4/46$

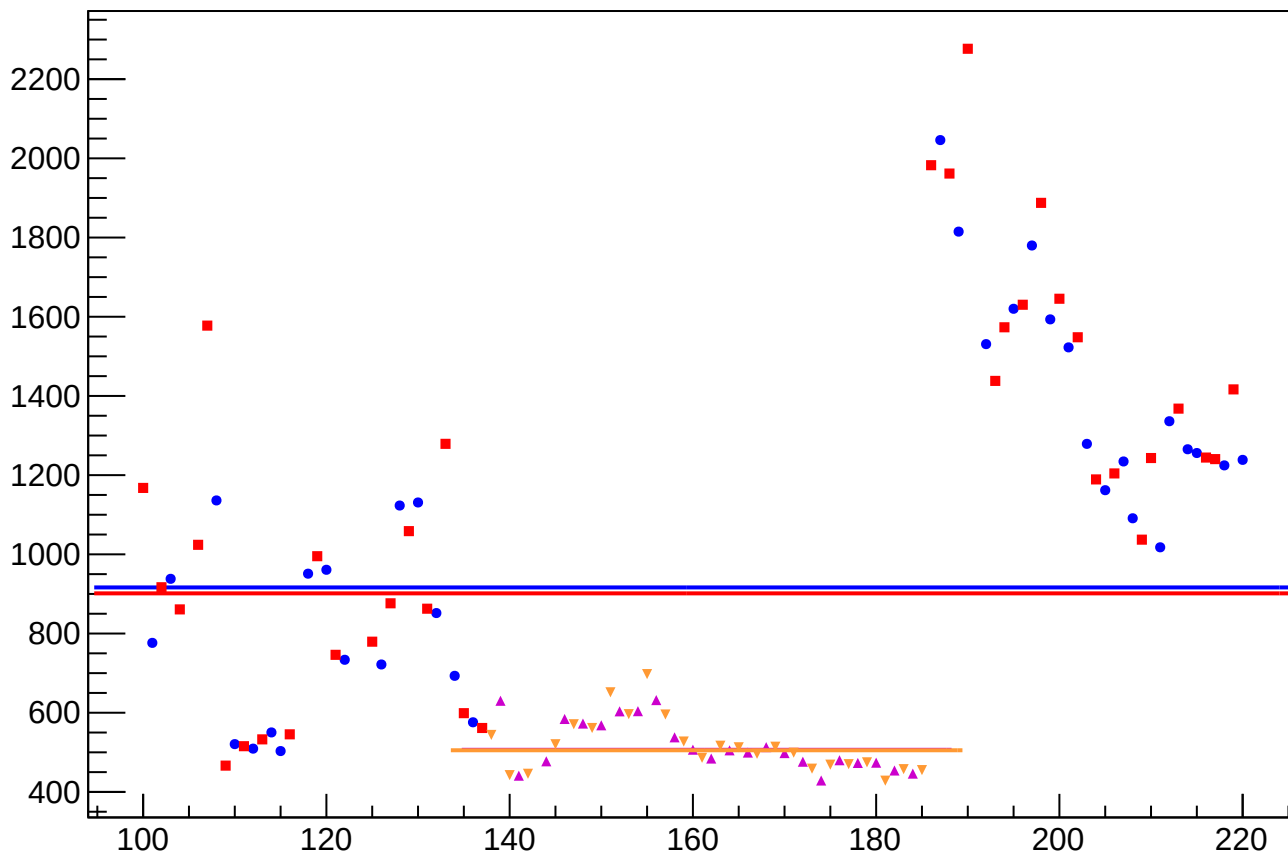
Right: 55.695 ± 160.104 $\chi^2/\text{NDF}: 113.9/67$

In: -130.114 ± 107.437 $\chi^2/\text{NDF}: 90.9/55$

Out: -194.272 ± 106.843 $\chi^2/\text{NDF}: 125.6/58$

All: -162.371 ± 75.759 $\chi^2/\text{NDF}: 216.7/114$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 916.446+/-0.160 χ^2/NDF : 4914763.5/32

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

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

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

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

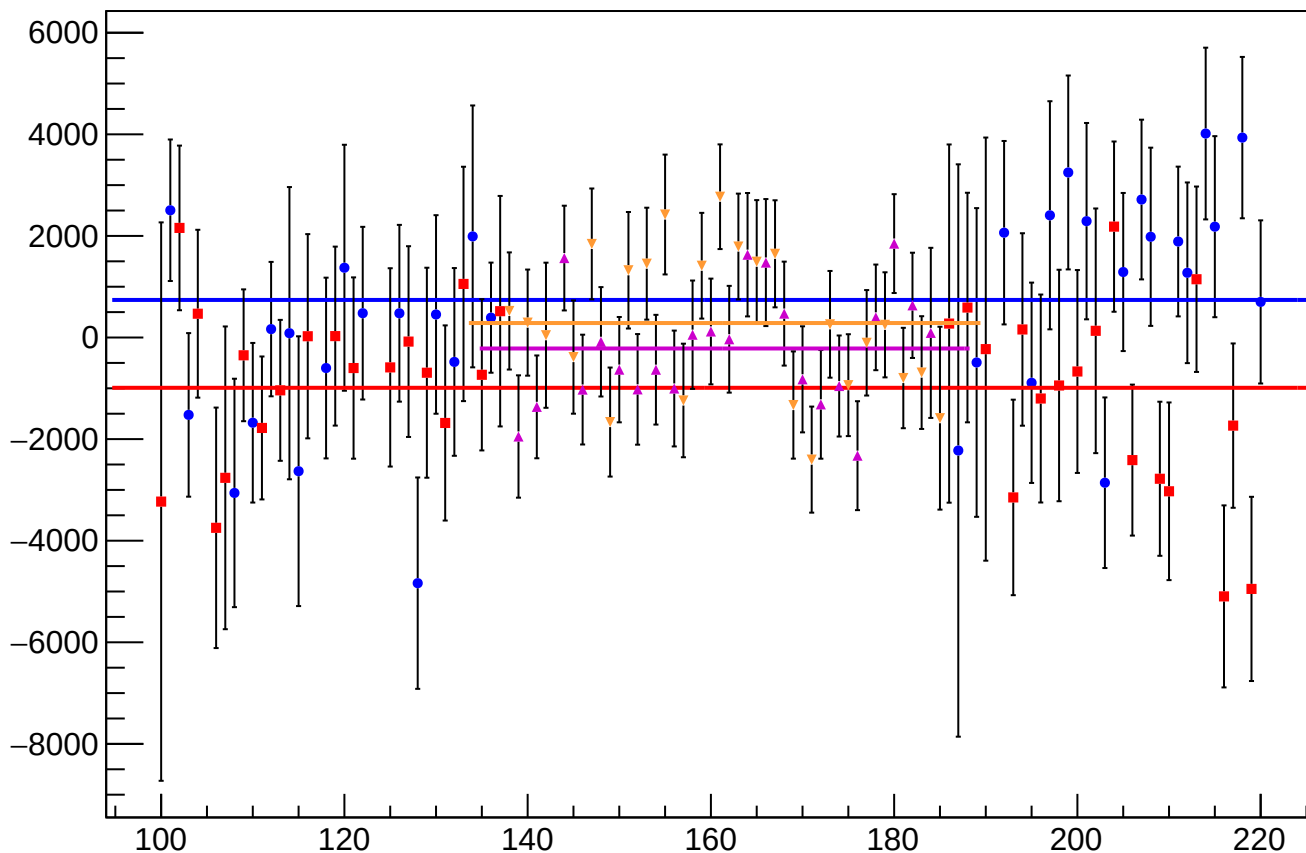
Right: 908.940+/-0.113 χ^2/NDF : 11274548.5/67

In: 598.670+/-0.076 χ^2/NDF : 10432579.5/55

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

All: 596.061+/-0.054 χ^2/NDF : 22038043.2/113

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 739.716 $\pm$ 309.273 χ^2 /NDF: 39.9/32

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

Right Out: -989.872 $\pm$ 315.228 χ^2 /NDF: 30.7/34

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

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

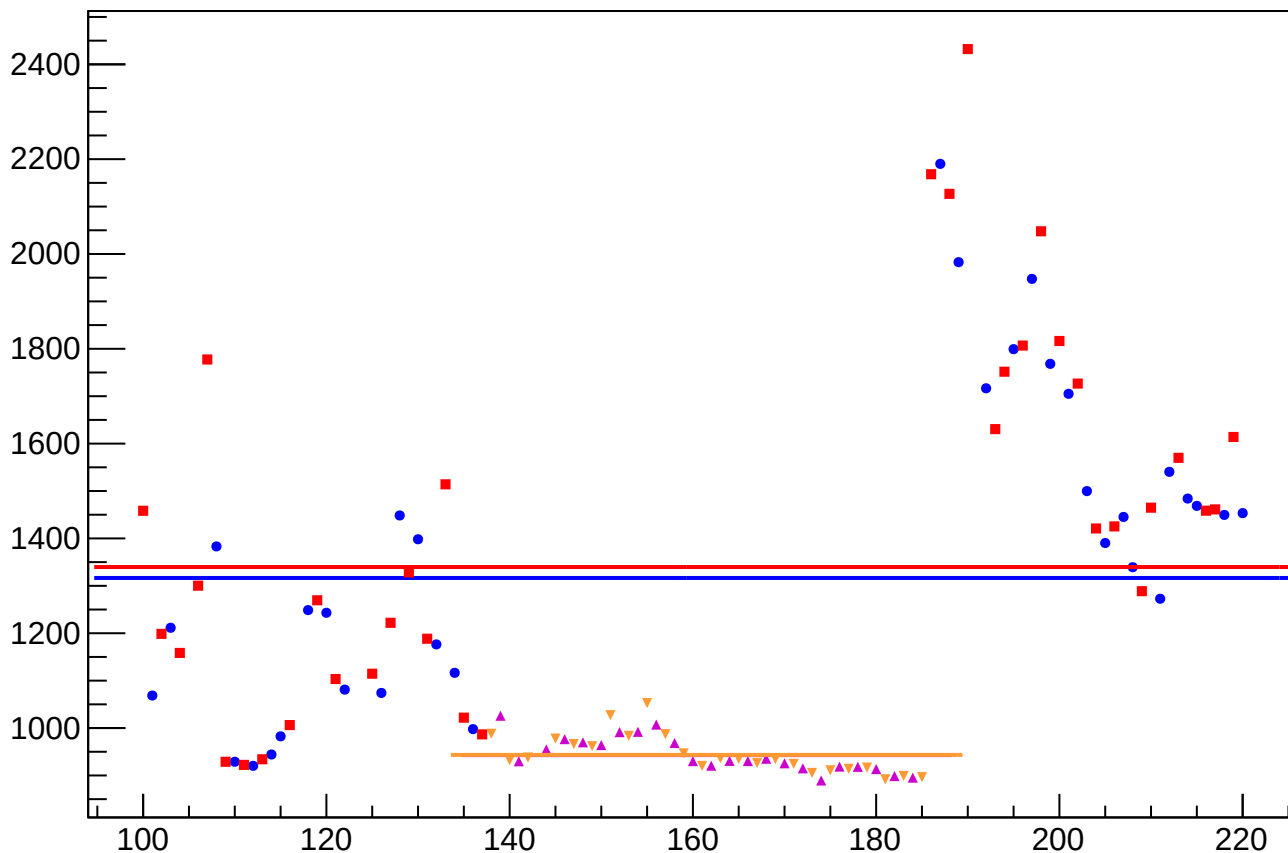
Right: -108.586 $\pm$ 220.764 χ^2 /NDF: 85.9/67

In: 115.843 $\pm$ 182.262 χ^2 /NDF:70.5/55

Out: -143.613 $\pm$ 182.799 χ^2 /NDF:79.8/58

All: -13.503 $\pm$ 129.068 χ^2 /NDF: 151.3/114

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1316.596+/-0.219 χ^2/NDF : 1581304.4/32

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

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

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

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

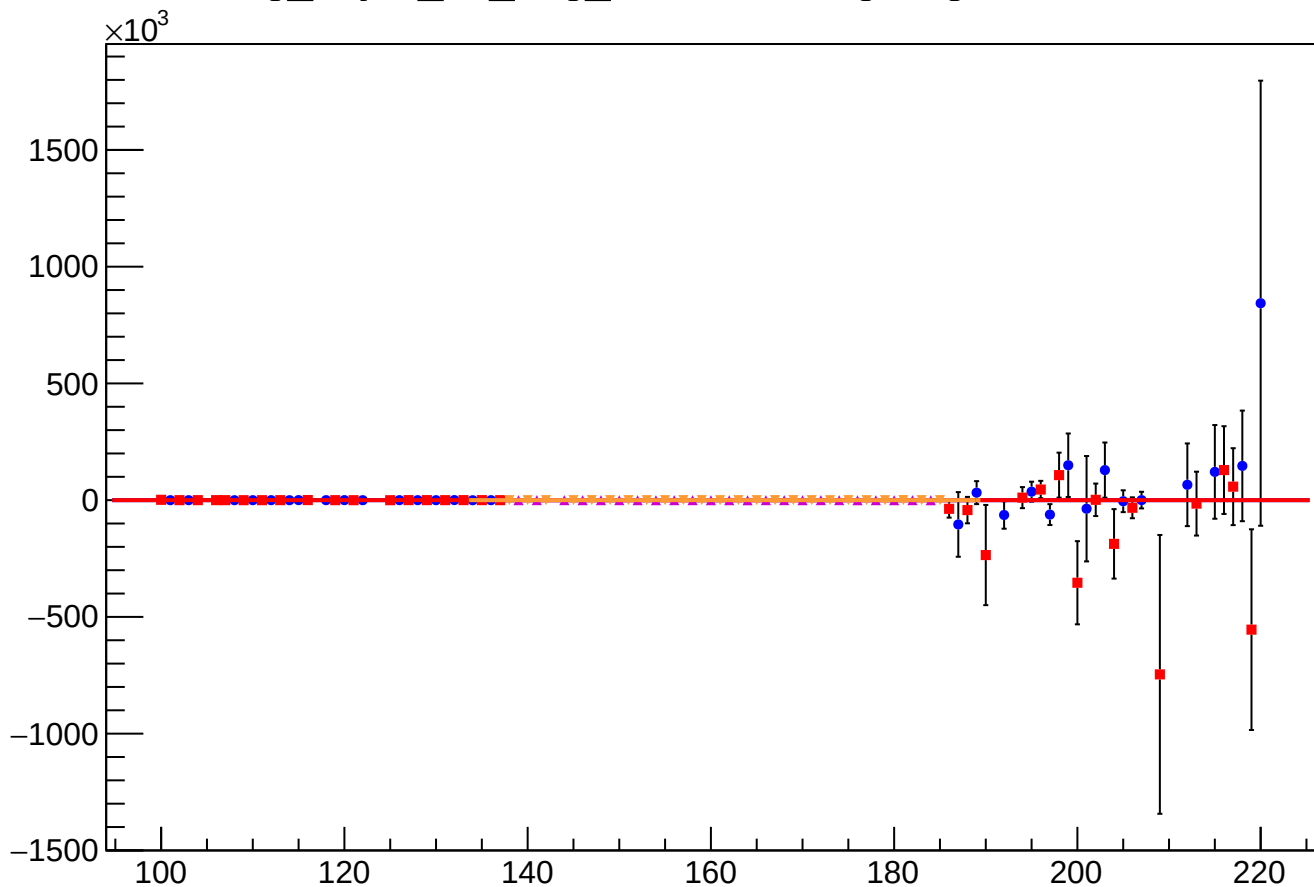
Right: 1327.913+/-0.156 χ^2/NDF : 3724748.4/67

In: 1072.703+/-0.129 χ^2/NDF : 3535313.1/55

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

All: 1074.657+/-0.091 χ^2/NDF : 7832372.3/11

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.549 ± 30.032 $\chi^2/\text{NDF}: 24.9/29$

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

Right Out: 31.726 ± 30.492 $\chi^2/\text{NDF}: 32.2/32$

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

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

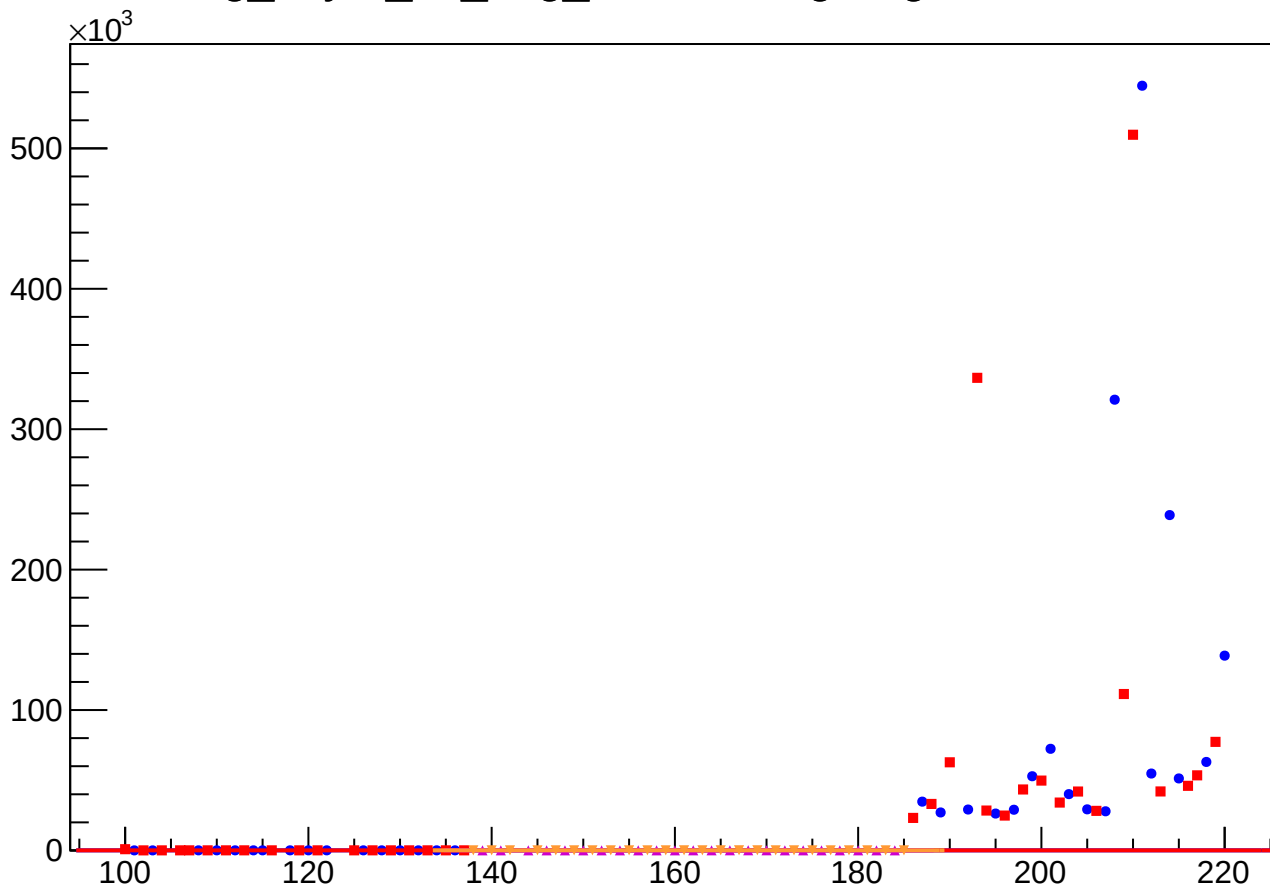
Right: 7.730 ± 21.397 $\chi^2/\text{NDF}: 58.3/62$

In: -20.417 ± 17.527 $\chi^2/\text{NDF}: 47.4/52$

Out: 12.995 ± 17.553 $\chi^2/\text{NDF}: 55.2/56$

All: -3.736 ± 12.403 $\chi^2/\text{NDF}: 104.5/109$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.143 $\pm$ 0.021 χ^2 /NDF: 6985508.9/32

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

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

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

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

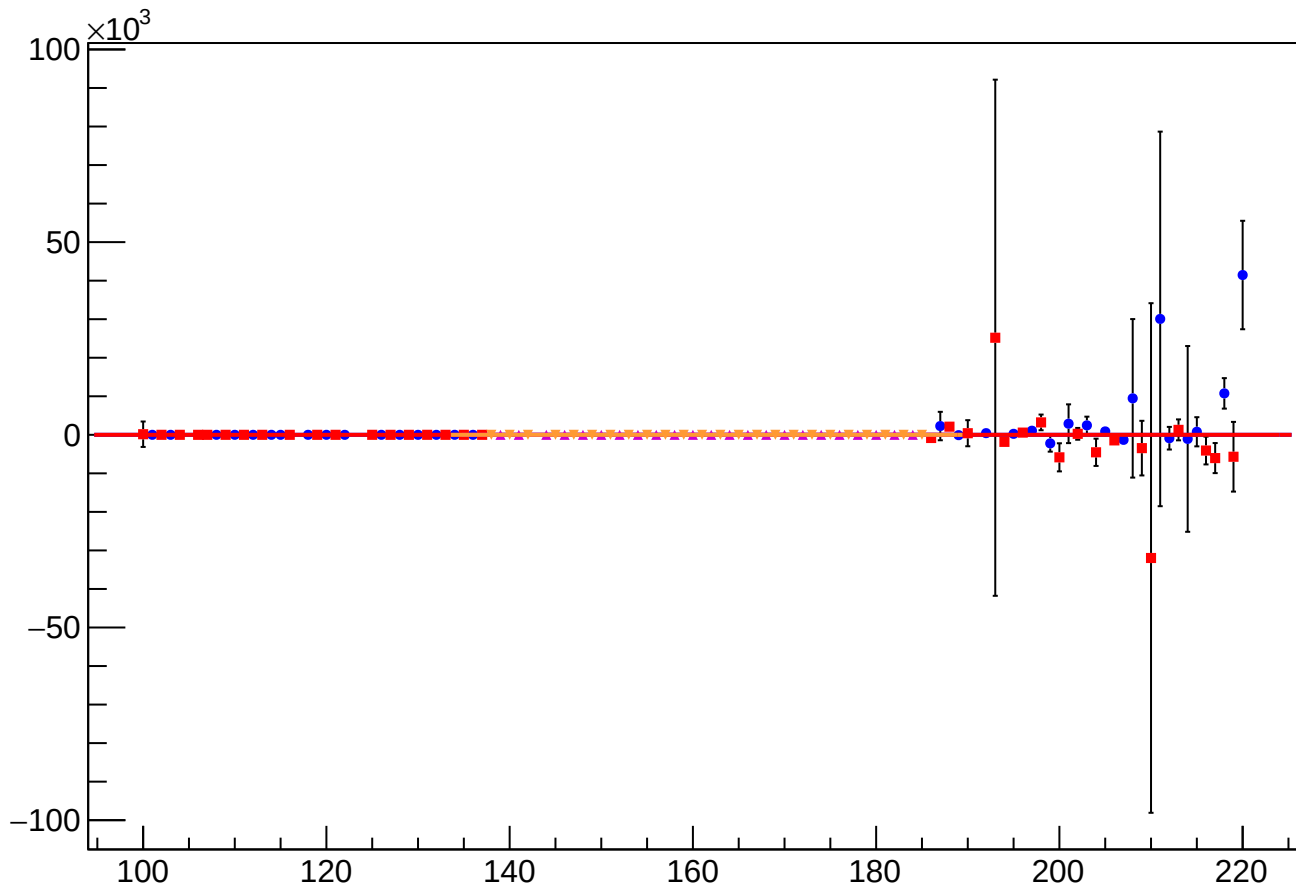
Right: 77.777 $\pm$ 0.015 χ^2 /NDF: 13631265.2/67

In: 85.014 $\pm$ 0.012 χ^2 /NDF: 7758618.2/55

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

All: 85.657 $\pm$ 0.009 χ^2 /NDF: 15014556.2/114

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 47.7/32

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

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

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

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

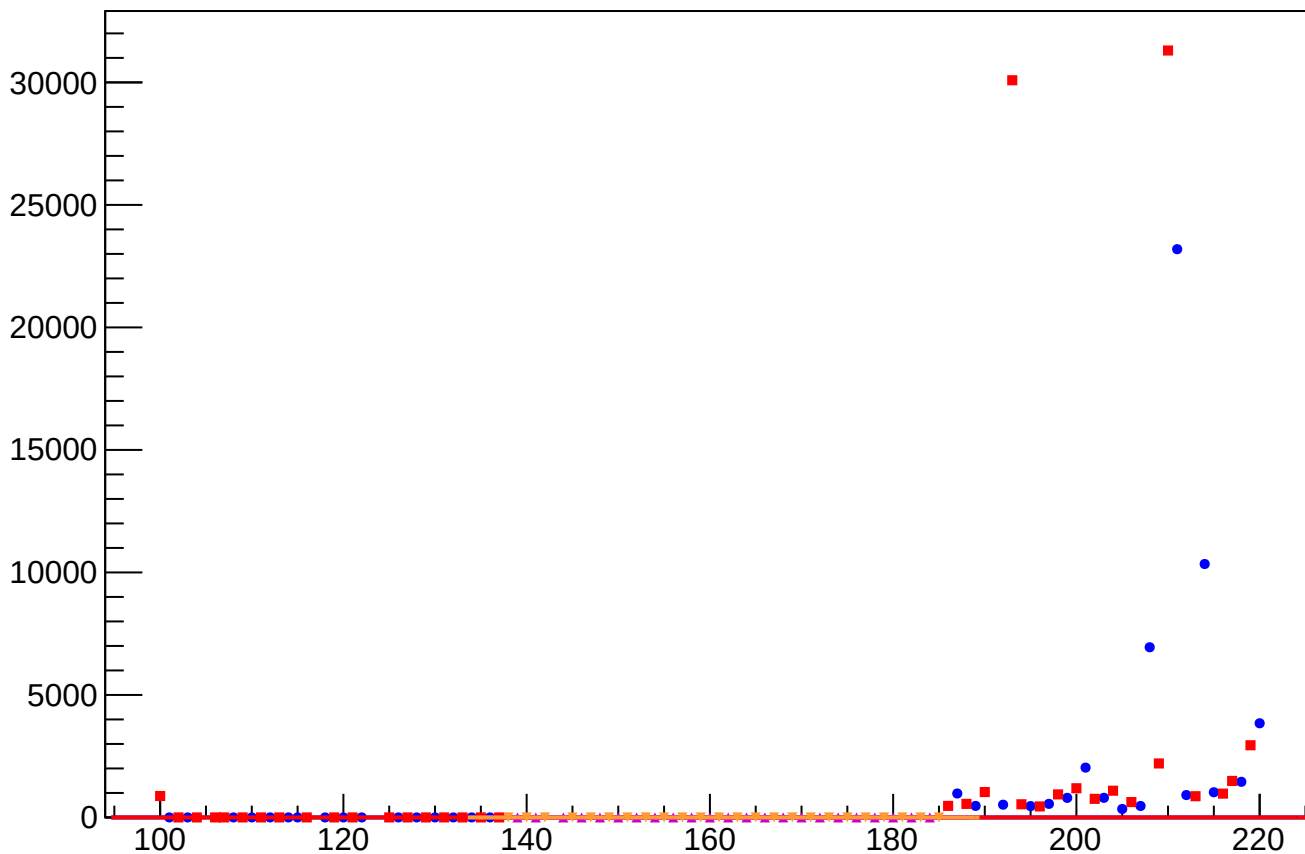
Right: -0.133 ± 0.363 χ^2/NDF : 81.6/67

In: -0.433 ± 0.306 χ^2/NDF : 74.1/55

Out: 0.096 ± 0.306 χ^2/NDF : 55.1/58

All: -0.168 ± 0.217 χ^2/NDF : 130.7/114

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 7138312.0/32

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

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

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

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

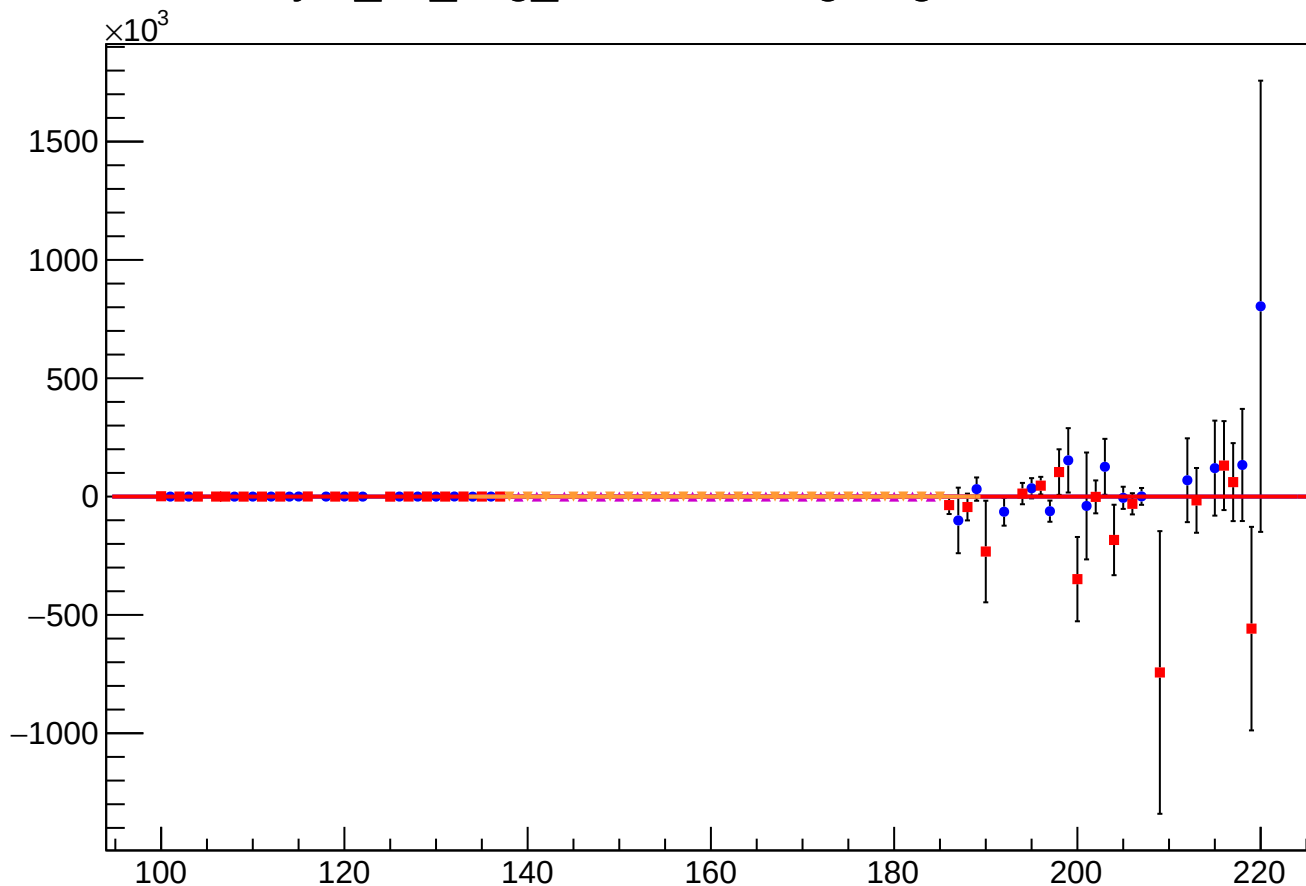
Right: 1.204+/-0.000 χ^2/NDF : 14647390.7/67

In: 1.341+/-0.000 χ^2/NDF : 8582223.9/55

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

All: 1.350+/-0.000 χ^2/NDF : 17143413.4/114

asym_ds_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

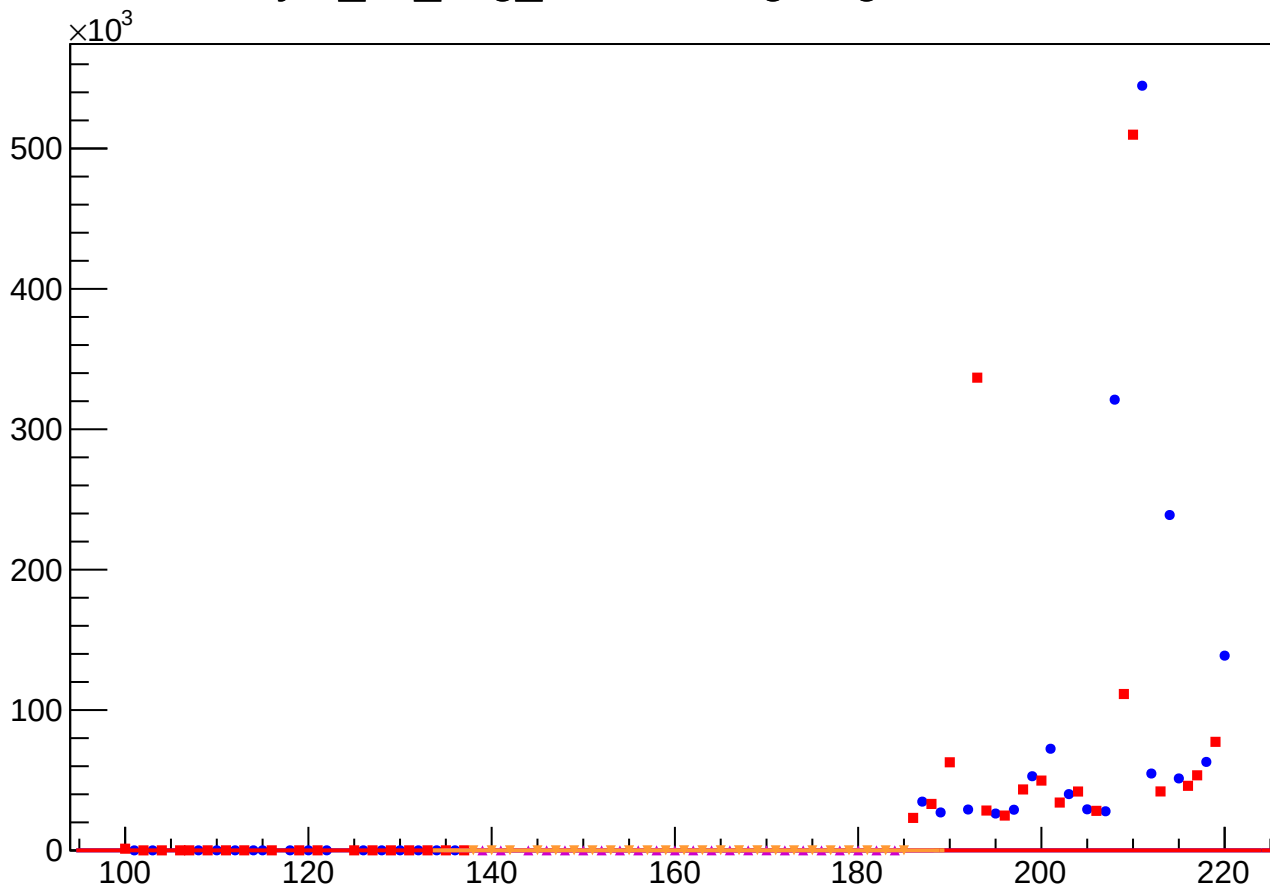
Right: 8.407 ± 21.402 χ^2/NDF : 58.0/62

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

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

All: -3.419 ± 12.407 χ^2/NDF : 103.7/109

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.163+/-0.021 χ^2 /NDF: 6985637.0/32

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

Right Out: 79.465+/-0.022 χ^2 /NDF: 6640364.9/34

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

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

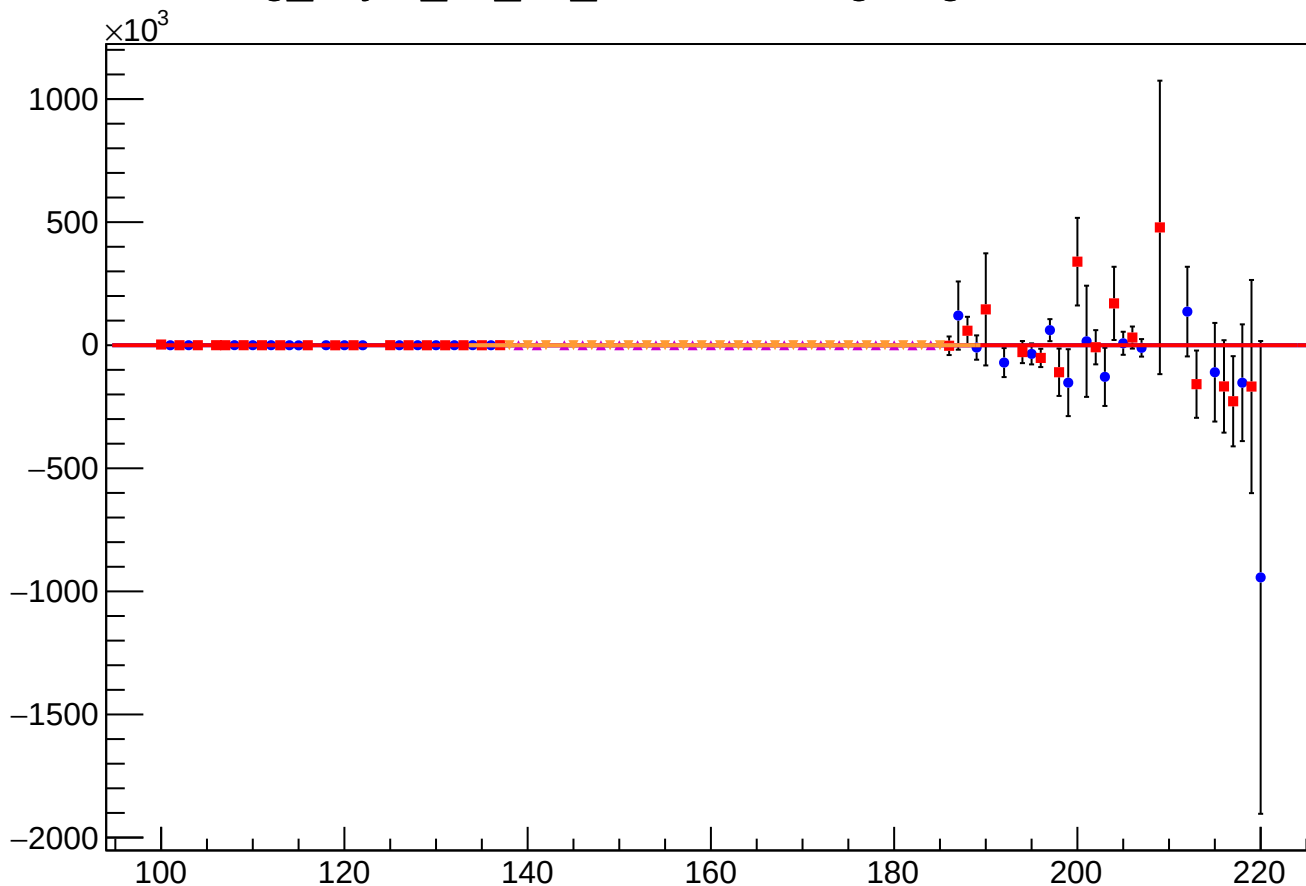
Right: 77.789+/-0.015 χ^2 /NDF: 13637900.0/67

In: 85.038+/-0.012 χ^2 /NDF: 7759749.1/55

Out: 86.321+/-0.012 χ^2 /NDF: 7258520.1/58

All: 85.678+/-0.009 χ^2 /NDF: 15023615.9/114

reg_asym_ds_dd_mean vs Slug, Sign Corrected



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

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

Right Out: -25.803 ± 30.473 χ^2/NDF : 27.8/32

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

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

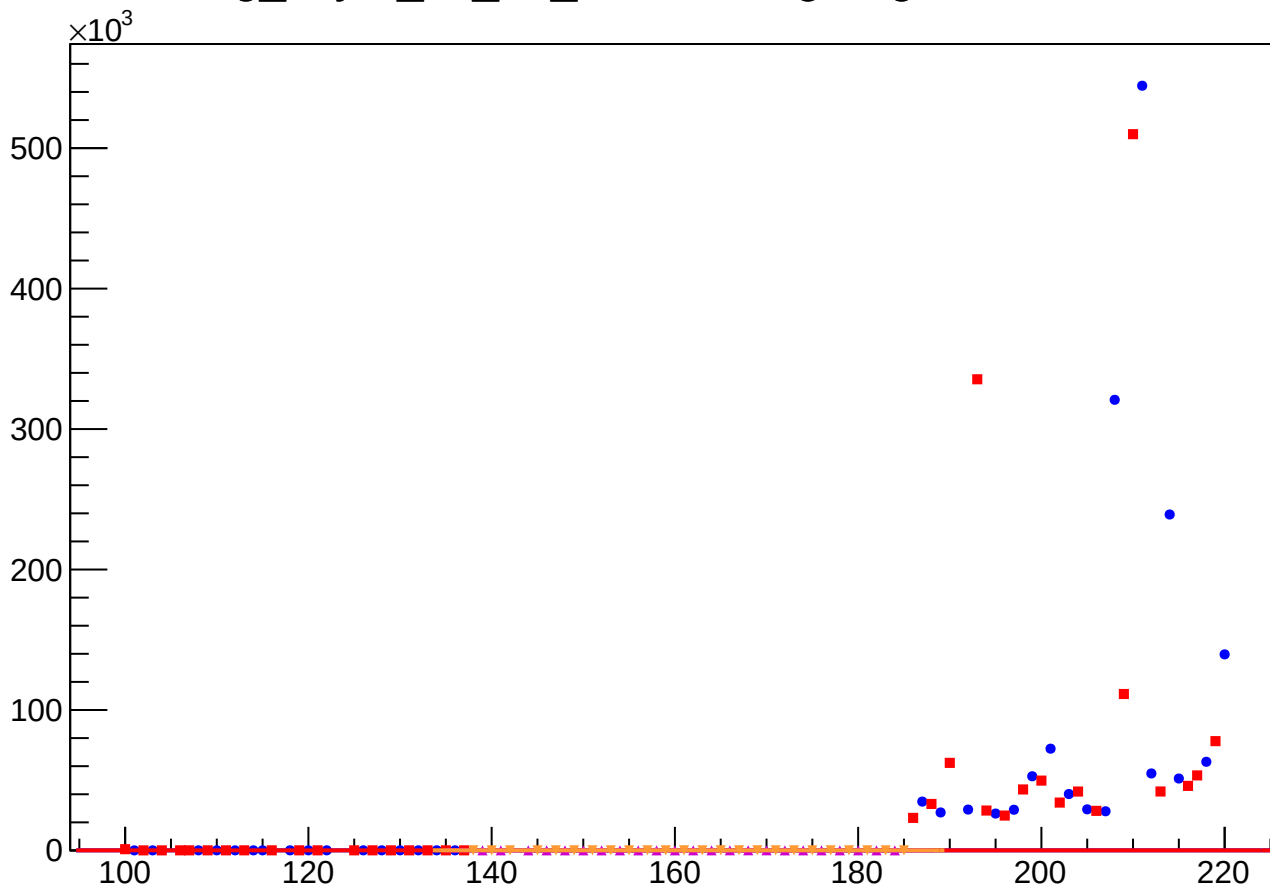
Right: -8.601 ± 21.383 χ^2/NDF : 52.0/62

In: 31.370 ± 17.528 χ^2/NDF : 56.0/52

Out: 1.646 ± 17.552 χ^2/NDF : 46.2/56

All: 16.529 ± 12.403 χ^2/NDF : 103.6/109

reg_asym_ds_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

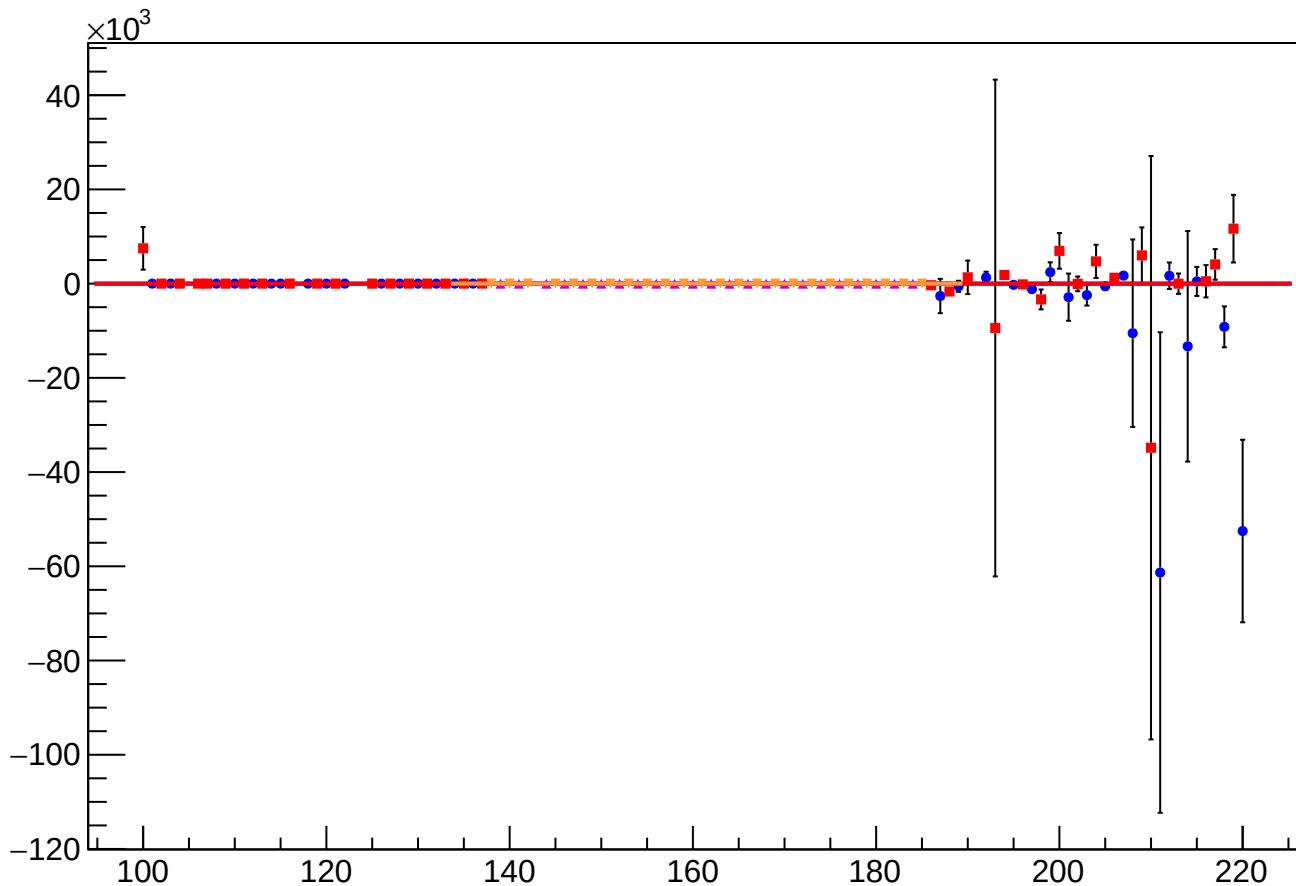
Right: 77.728 $\pm$ 0.015 χ^2 /NDF: 13630448.2/67

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

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

All: 85.652 $\pm$ 0.009 χ^2 /NDF: 15020527.8/114

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 χ^2/NDF : 39.6/32

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

Right Out: 0.348 ± 0.549 χ^2/NDF : 36.2/34

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

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

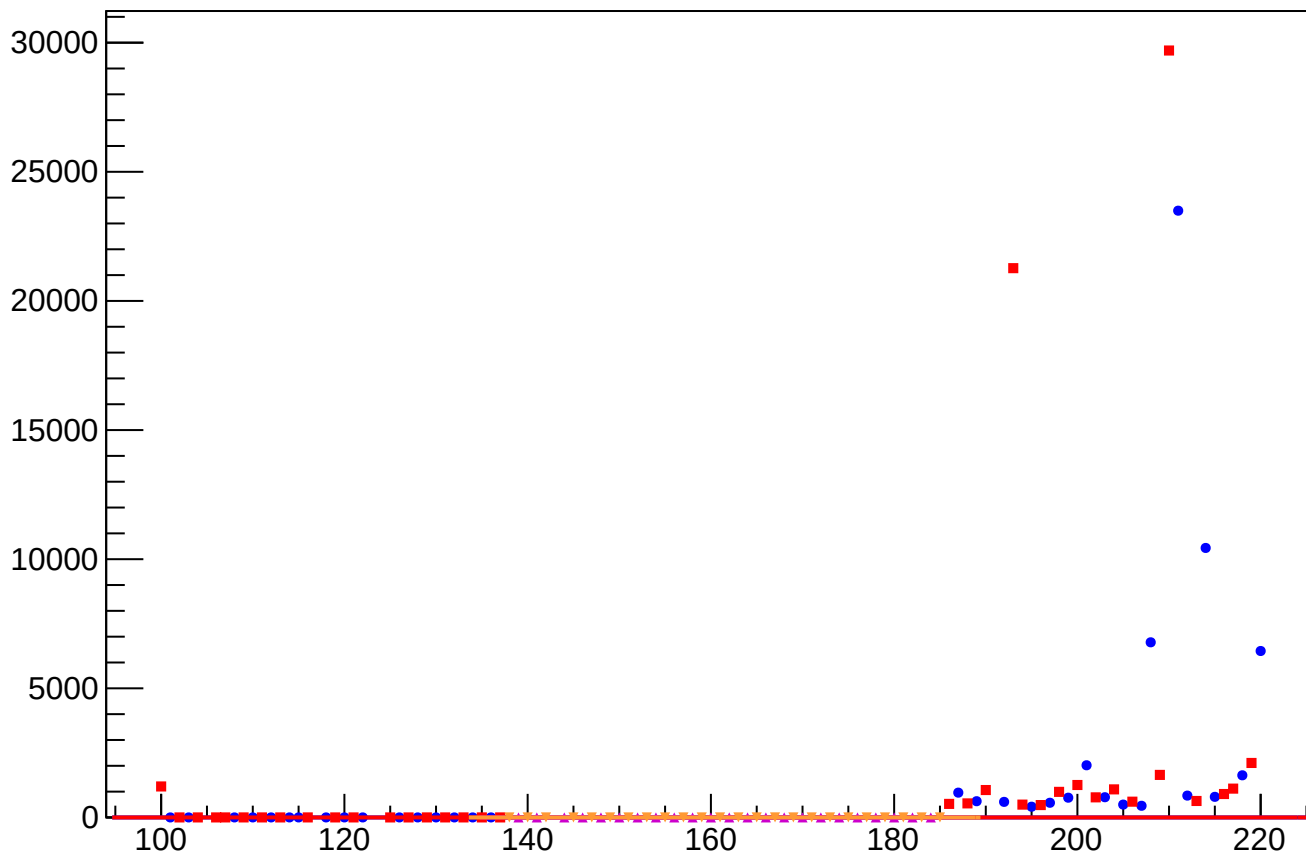
Right: 0.629 ± 0.382 χ^2/NDF : 76.4/67

In: 0.266 ± 0.315 χ^2/NDF : 62.2/55

Out: -0.225 ± 0.318 χ^2/NDF : 58.6/58

All: 0.024 ± 0.224 χ^2/NDF : 122.0/114

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7452343.3/32

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

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

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

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

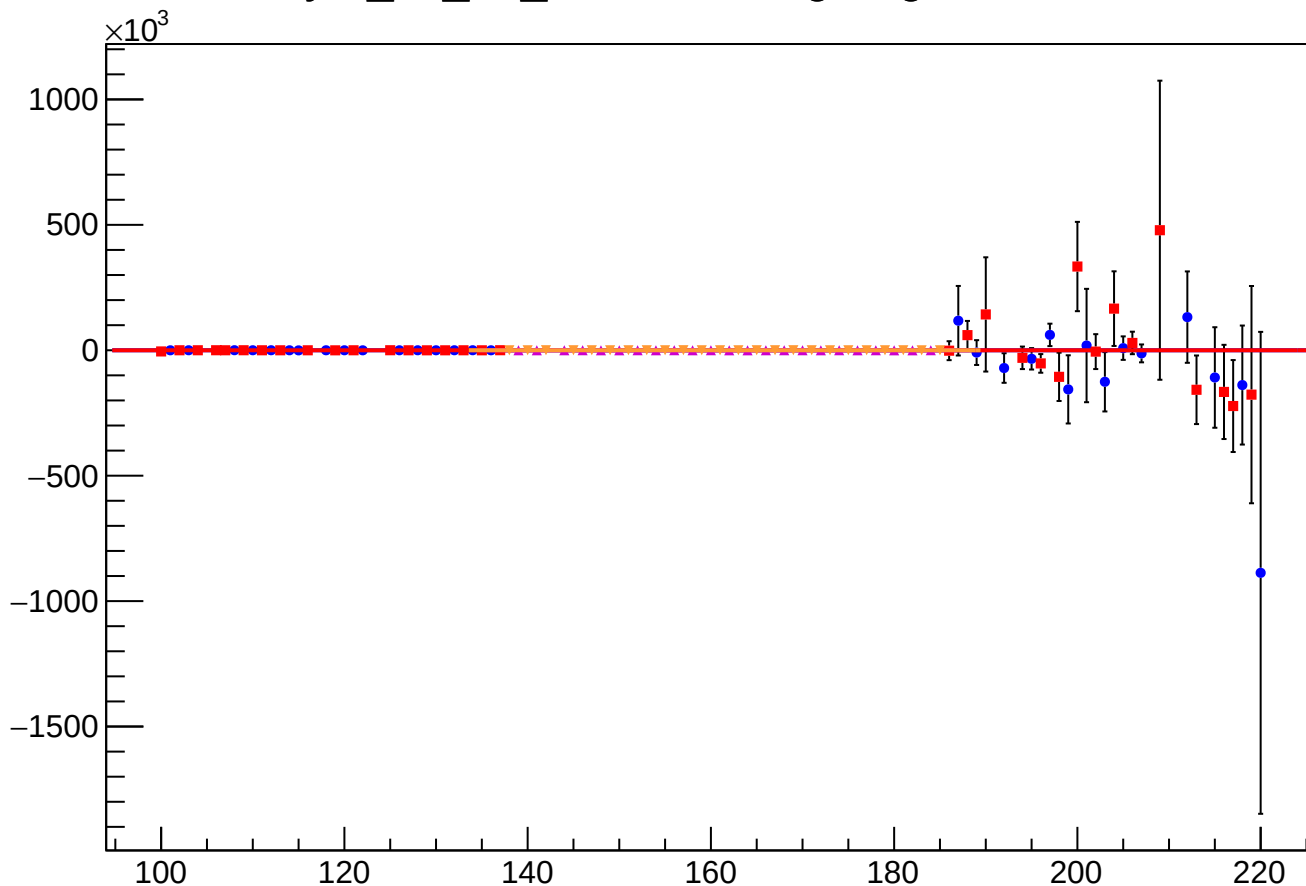
Right: 1.274+/-0.000 χ^2/NDF : 14735414.0/67

In: 1.382+/-0.000 χ^2/NDF :8737236.0/55

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

All: 1.400+/-0.000 χ^2/NDF : 17269534.5/114

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.378 ± 30.020 χ^2/NDF : 23.2/29

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

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

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

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

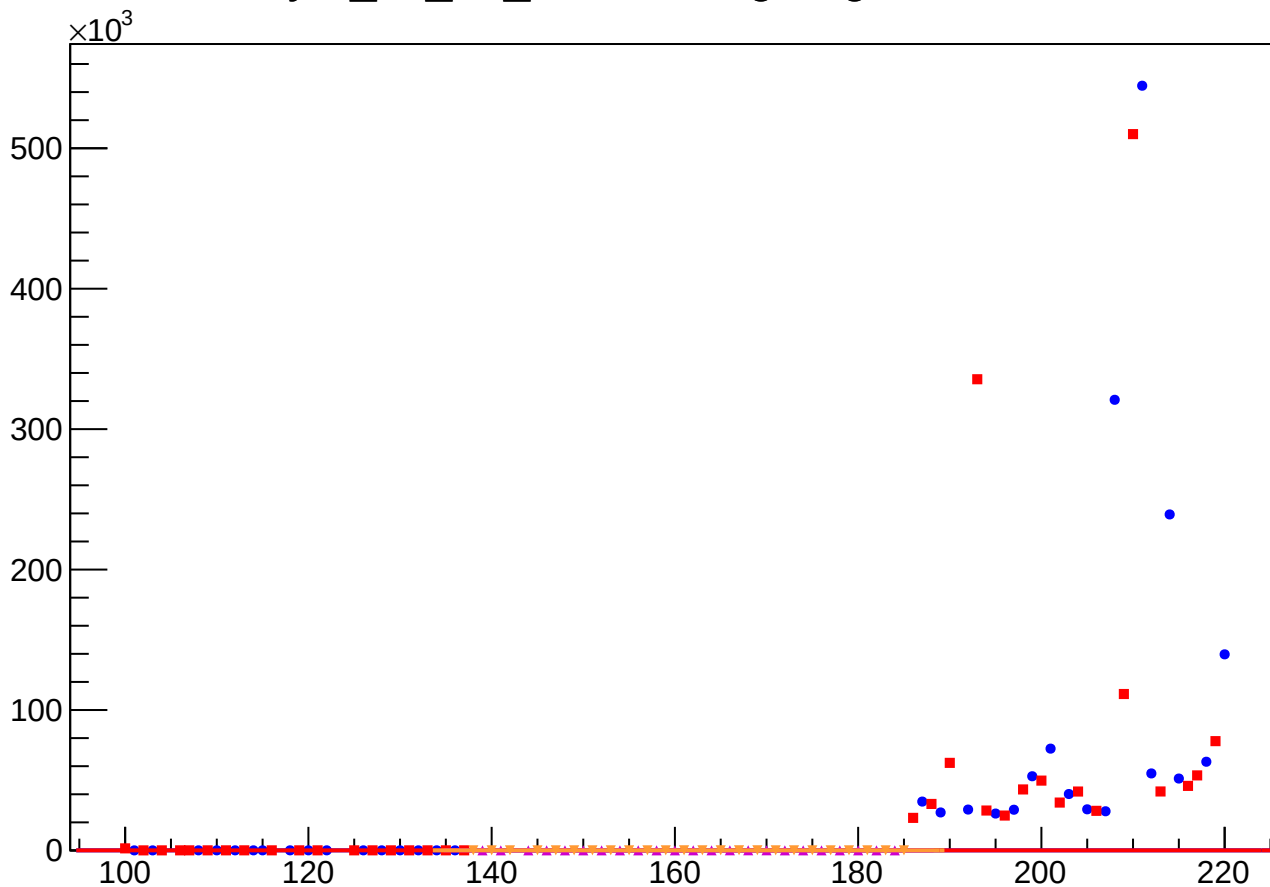
Right: -9.260 ± 21.389 χ^2/NDF : 51.6/62

In: 31.445 ± 17.533 χ^2/NDF : 55.3/52

Out: 1.774 ± 17.558 χ^2/NDF : 46.1/56

All: 16.630 ± 12.407 χ^2/NDF : 102.9/109

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.114 $\pm$ 0.021 χ^2 /NDF: 6985506.8/32

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

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

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

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

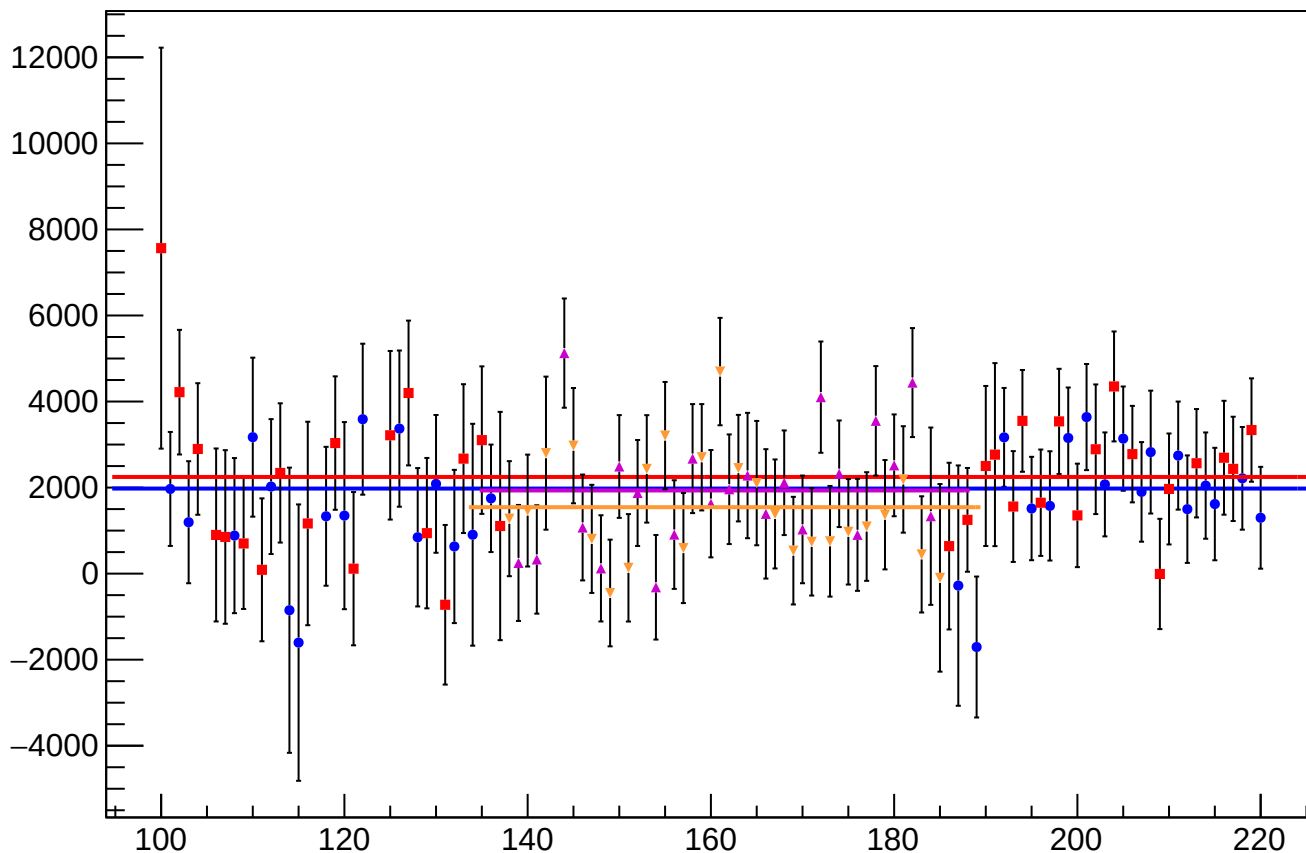
Right: 77.737 $\pm$ 0.015 χ^2 /NDF: 13639776.0/67

In: 85.036 $\pm$ 0.012 χ^2 /NDF: 7765426.5/55

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

All: 85.673 $\pm$ 0.009 χ^2 /NDF: 15032445.8/114

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1977.227+/-251.103 χ^2/NDF : 18.1/32

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

Right Out: 2246.753+/-249.943 χ^2/NDF : 26.2/35

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

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

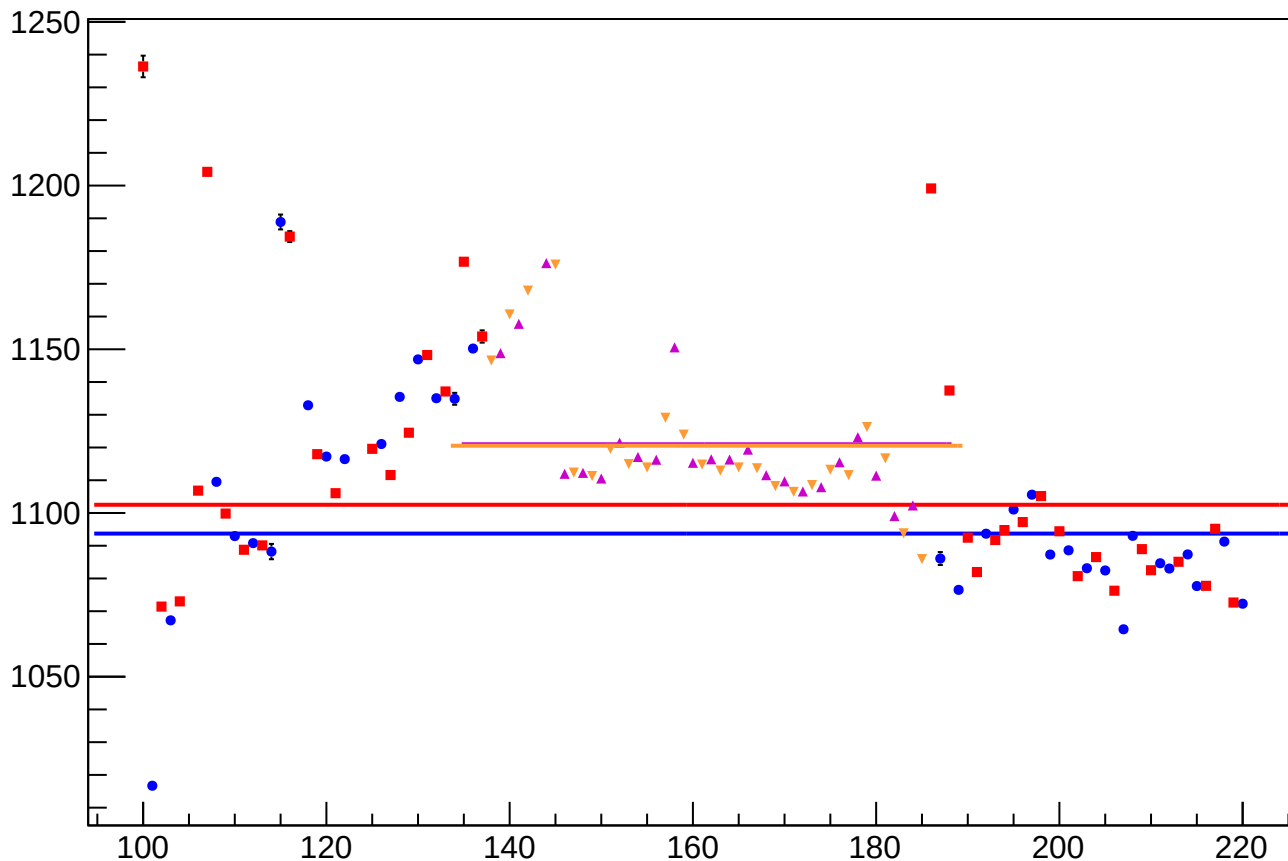
Right: 2112.614+/-177.145 χ^2/NDF : 44.9/68

In: 1956.552+/-183.241 χ^2/NDF : 45.1/55

Out: 1917.629+/-182.235 χ^2/NDF : 49.9/59

All: 1936.983+/-129.214 χ^2/NDF : 95.1/115

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1093.708 $\pm$ 0.178 χ^2 /NDF: 24268.7/32

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

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

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

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

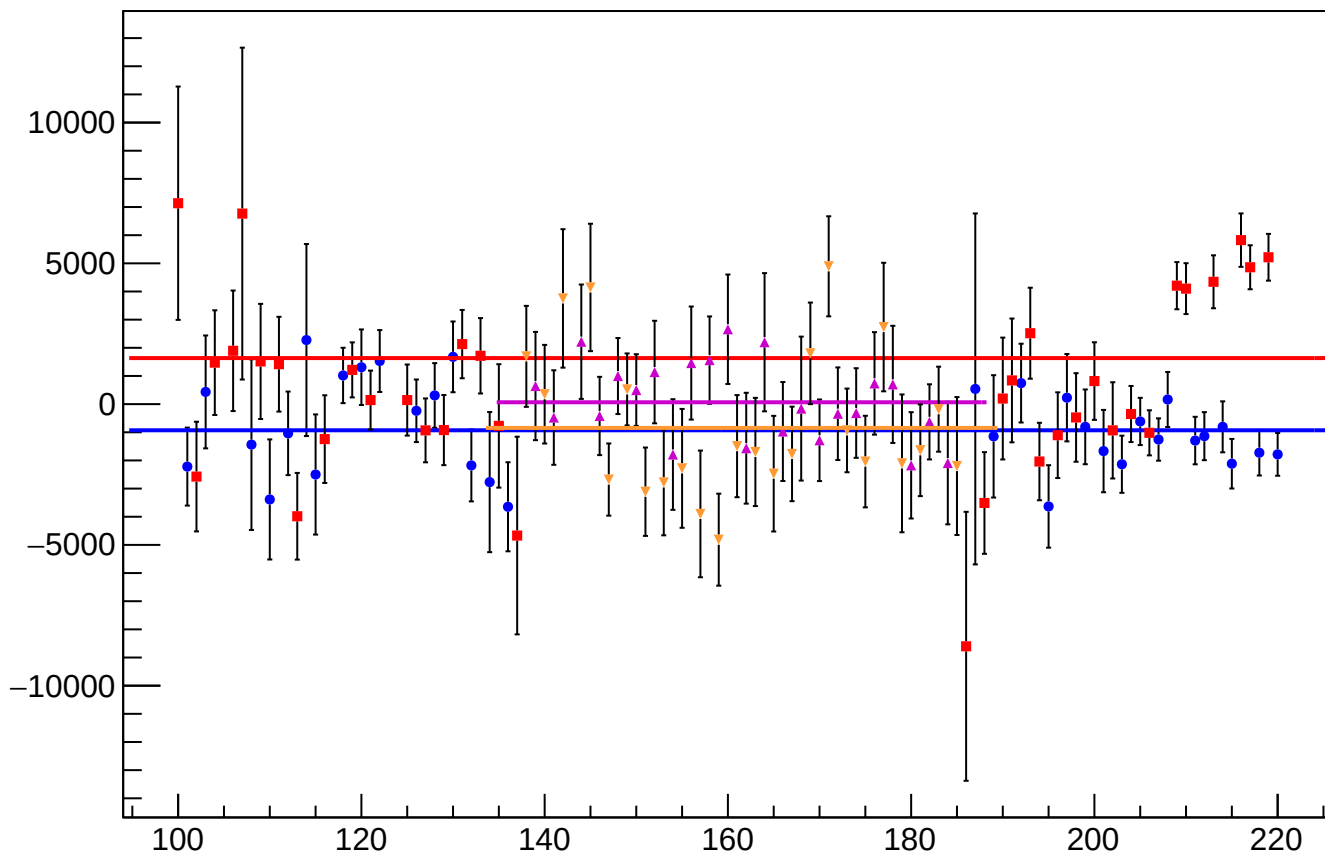
Right: 1098.130 $\pm$ 0.125 χ^2 /NDF: 55999.9/68

In: 1106.462 $\pm$ 0.130 χ^2 /NDF:44947.4/55

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

All: 1108.722 $\pm$ 0.091 χ^2 /NDF: 91177.5/115

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -929.244 ± 203.806 χ^2/NDF : 39.2/32

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

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

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

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

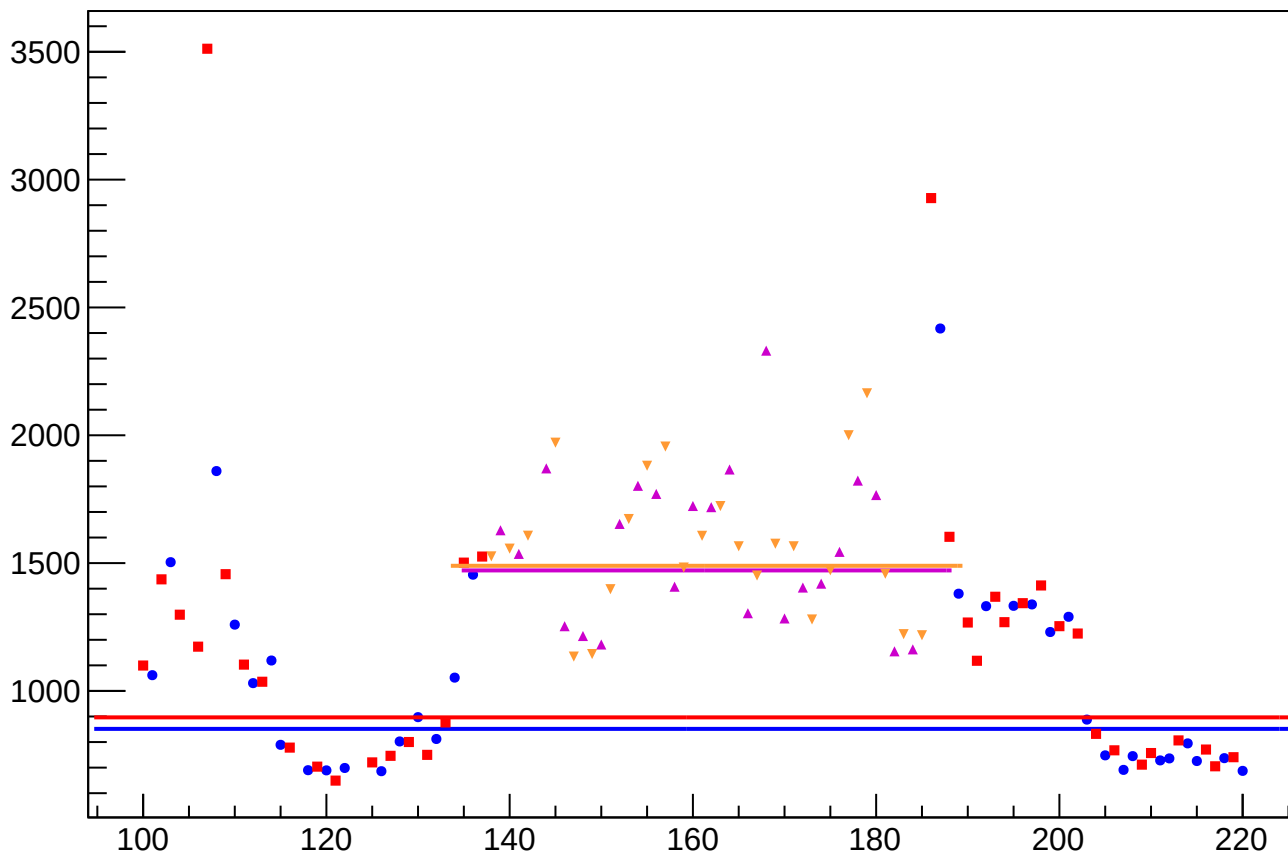
Right: 288.136 ± 147.710 χ^2/NDF : 279.5/68

In: -686.512 ± 177.211 χ^2/NDF : 57.1/55

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

All: 118.132 ± 127.756 χ^2/NDF : 343.4/115

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 851.535+/-0.144 χ^2/NDF : 2719181.3/32

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

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

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

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

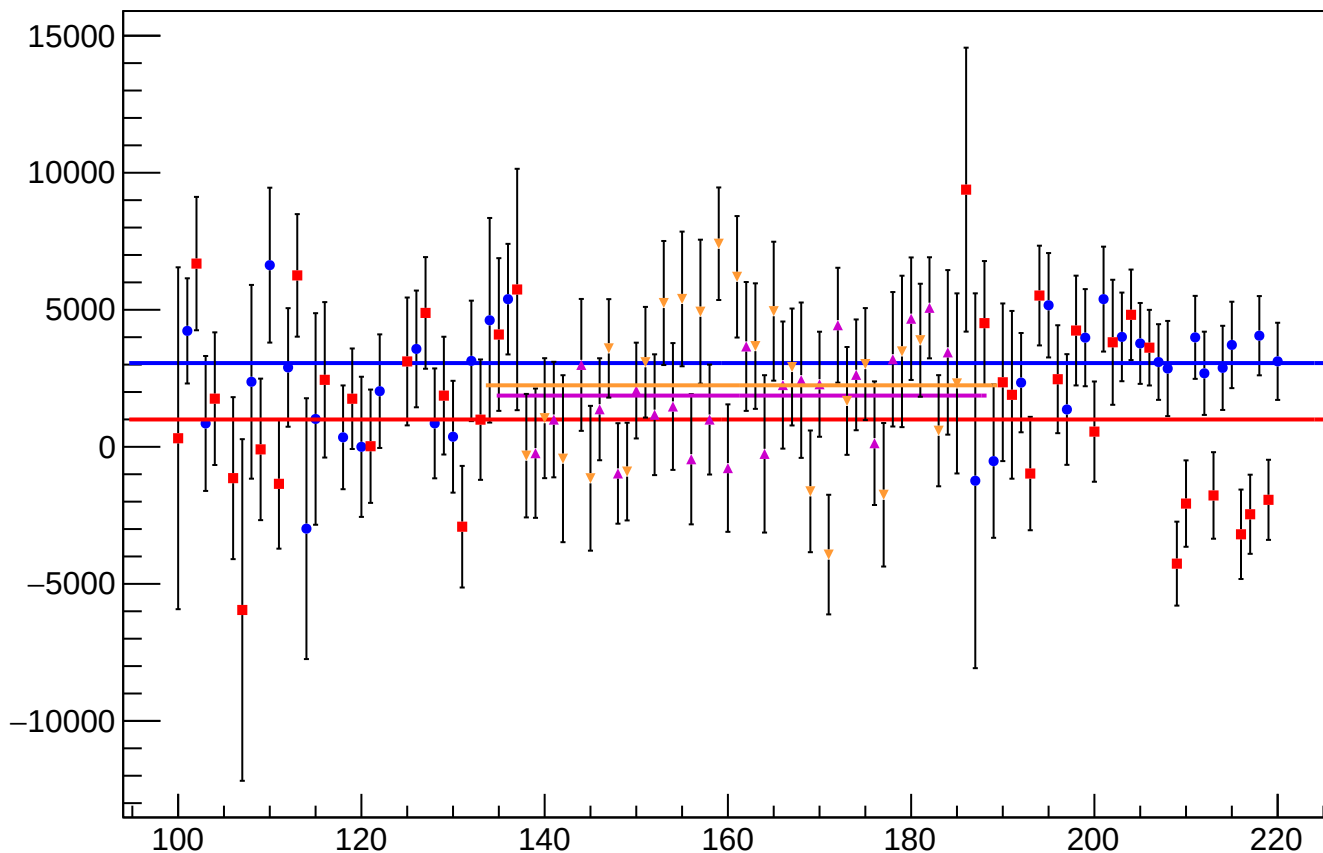
Right: 872.913+/-0.104 χ^2/NDF : 6283423.4/68

In: 1002.753+/-0.125 χ^2/NDF :8337773.9/55

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

All: 1025.958+/-0.090 χ^2/NDF : 16922822.4/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 3056.009 $\pm$ 336.919 χ^2 /NDF: 20.5/32

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

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

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

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

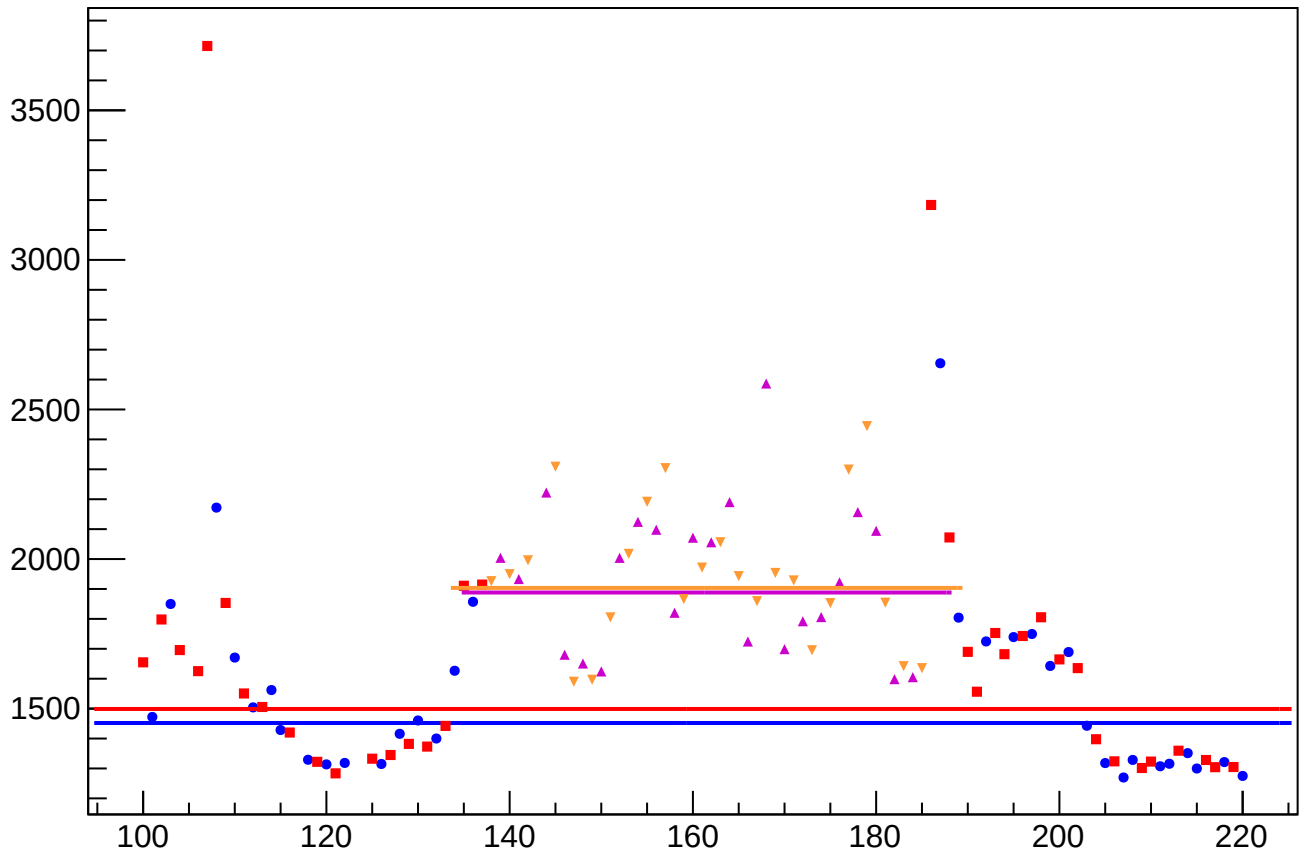
Right: 2053.725 $\pm$ 241.316 χ^2 /NDF: 124.7/68

In: 2636.481 $\pm$ 270.865 χ^2 /NDF:39.8/55

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

All: 2054.789 $\pm$ 193.196 χ^2 /NDF: 178.5/115

asym_usl_rms vs Slug, Sign Corrected



Right In: 1451.987 $\pm$ 0.238 χ^2/NDF : 720114.1/32

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

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

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

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

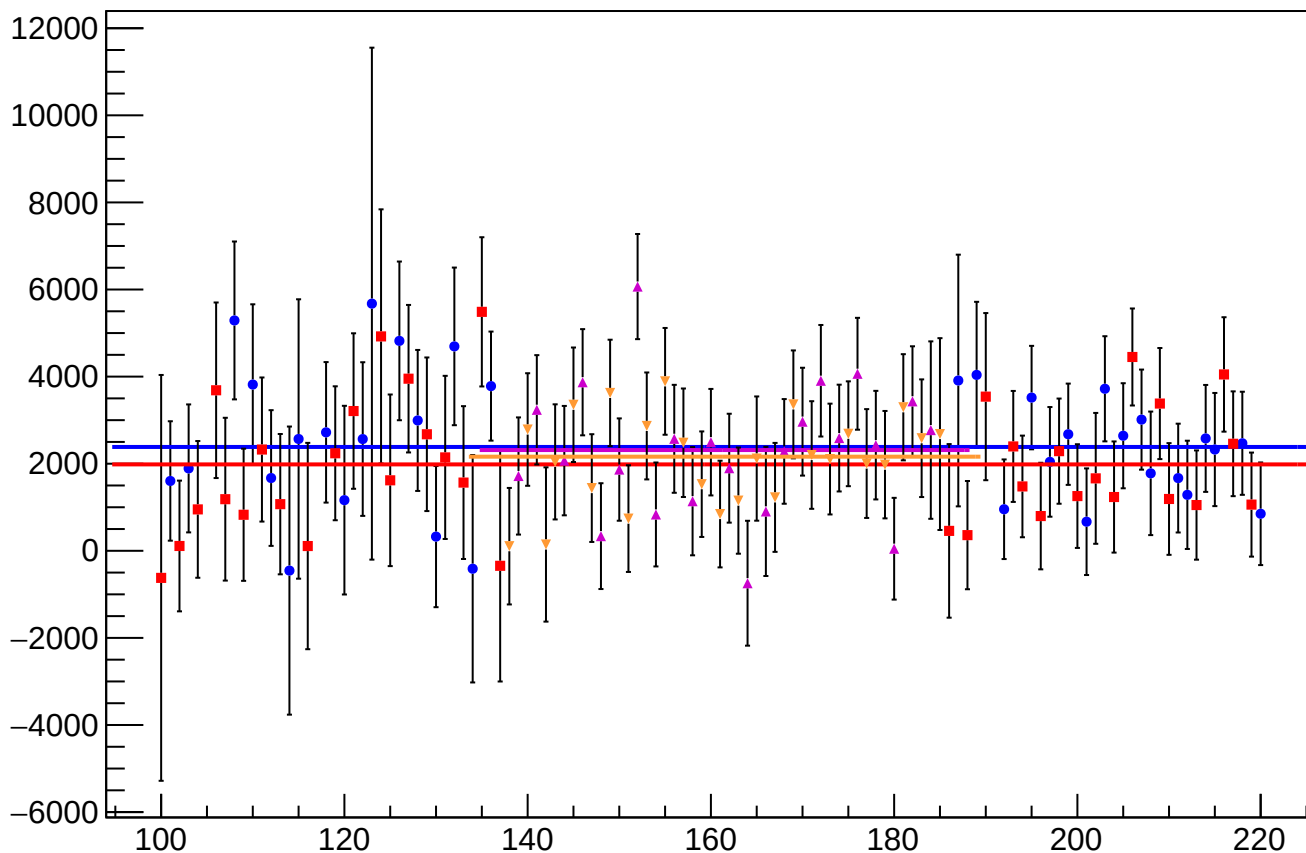
Right: 1474.823 $\pm$ 0.171 χ^2/NDF : 1925237.4/68

In: 1606.235 $\pm$ 0.192 χ^2/NDF : 2409944.8/55

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

All: 1625.987 $\pm$ 0.137 χ^2/NDF : 5078489.8/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2384.687 $\pm$ 250.896 χ^2 /NDF: 23.2/33

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

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

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

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

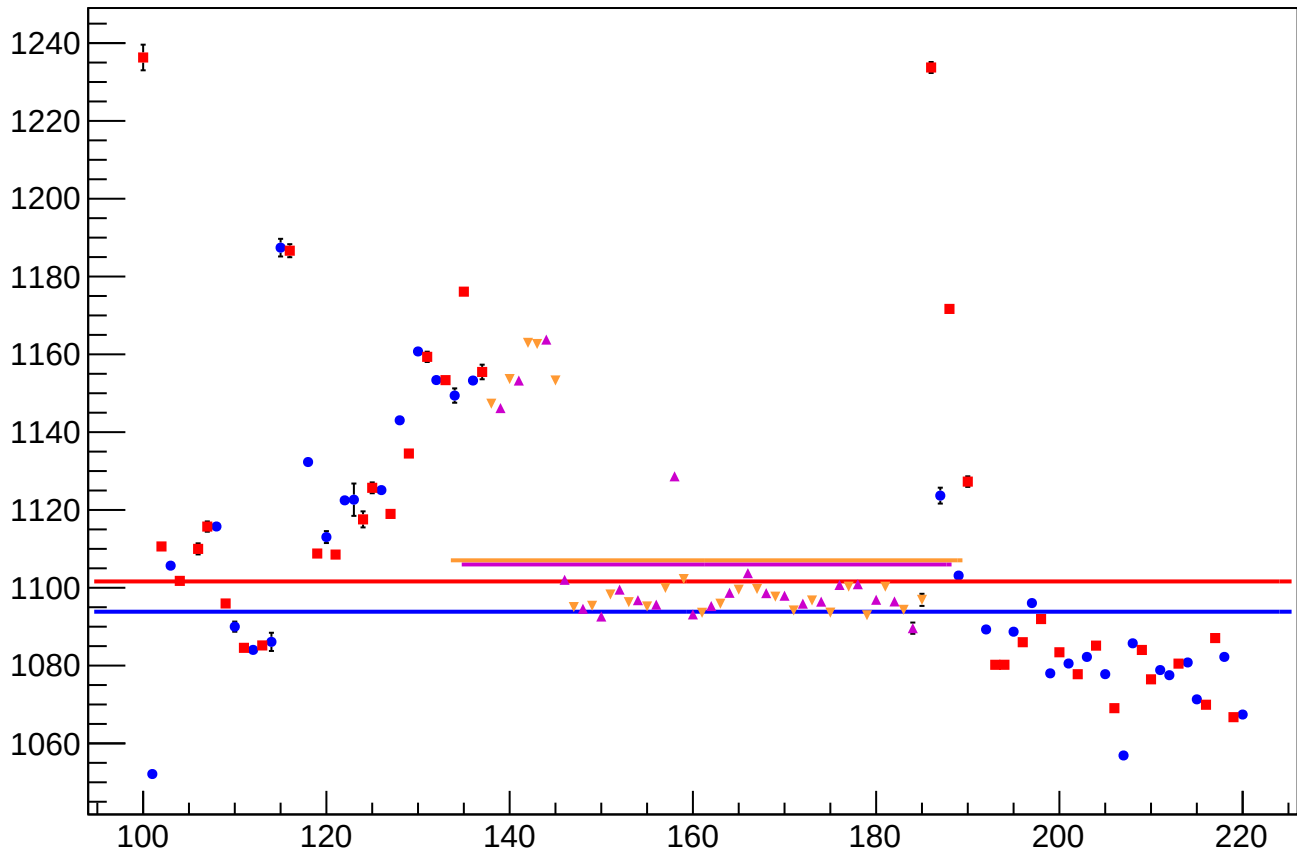
Right: 2184.085 $\pm$ 177.269 χ^2 /NDF: 52.6/69

In: 2350.964 $\pm$ 182.007 χ^2 /NDF:54.5/56

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

All: 2208.744 $\pm$ 127.824 χ^2 /NDF: 99.2/117

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1093.846 $\pm$ 0.177 χ^2 /NDF: 25650.3/33

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

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

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

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

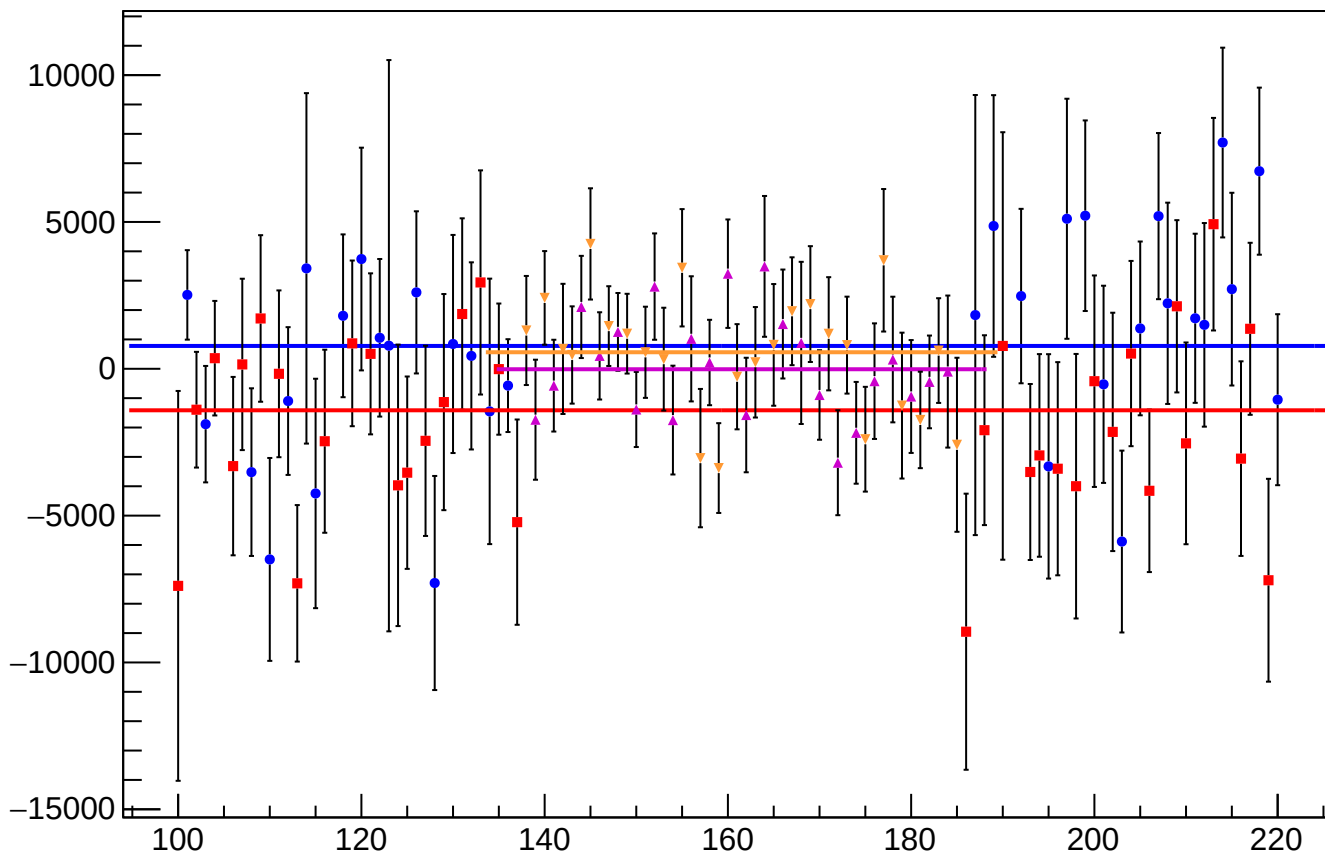
Right: 1097.743 $\pm$ 0.125 χ^2 /NDF: 66192.8/69

In: 1099.602 $\pm$ 0.129 χ^2 /NDF:39424.0/56

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

All: 1101.966 $\pm$ 0.090 χ^2 /NDF: 95301.1/117

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 778.133+/-507.960 χ^2/NDF : 41.9/33

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

Right Out: -1413.442+/-520.634 χ^2/NDF : 28.7/35

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

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

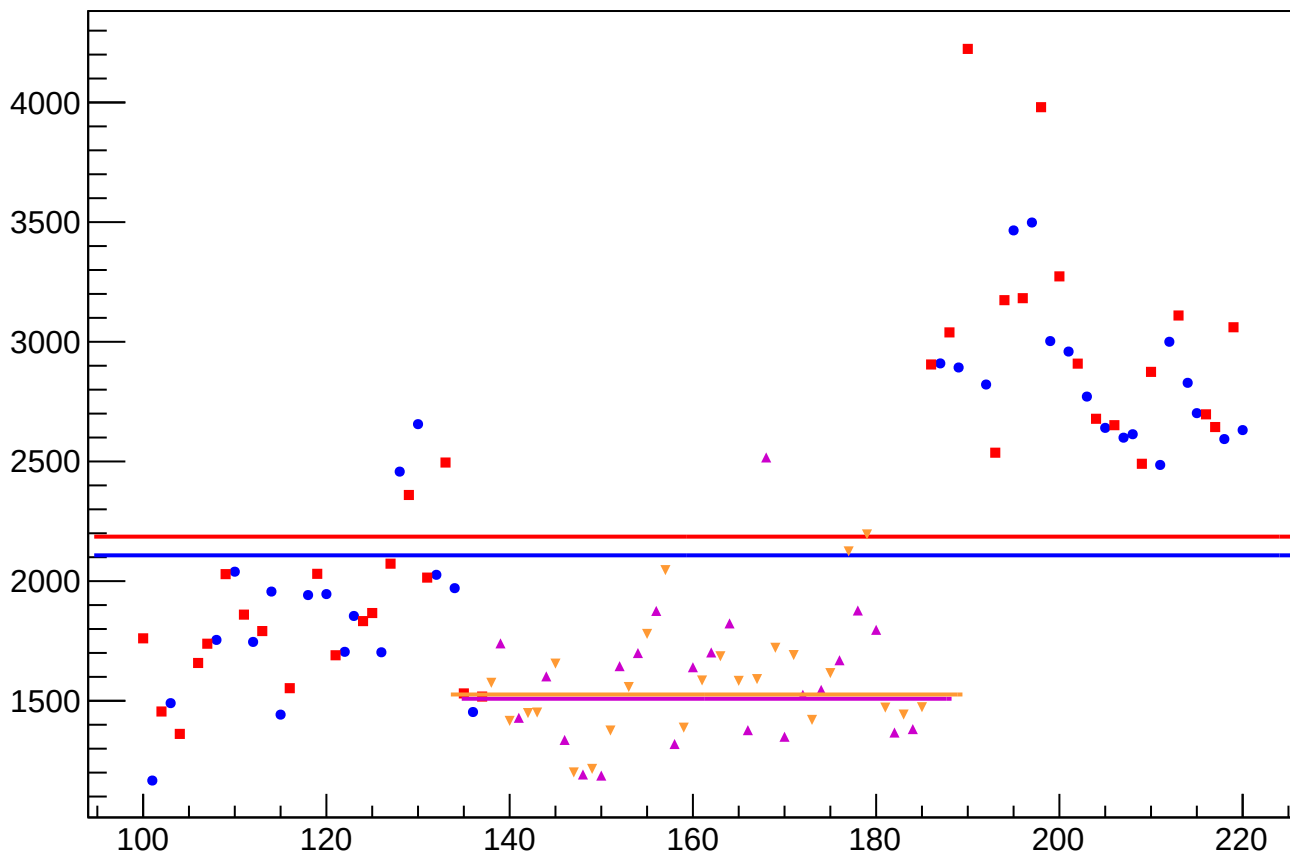
Right: -290.656+/-363.580 χ^2/NDF : 79.7/69

In: 256.538+/-297.403 χ^2/NDF :63.7/56

Out: -78.287+/-296.607 χ^2/NDF :65.2/60

All: 88.677+/-210.014 χ^2/NDF : 129.5/117

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2107.766 $\pm$ 0.359 χ^2 /NDF: 3278653.1/33

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

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

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

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

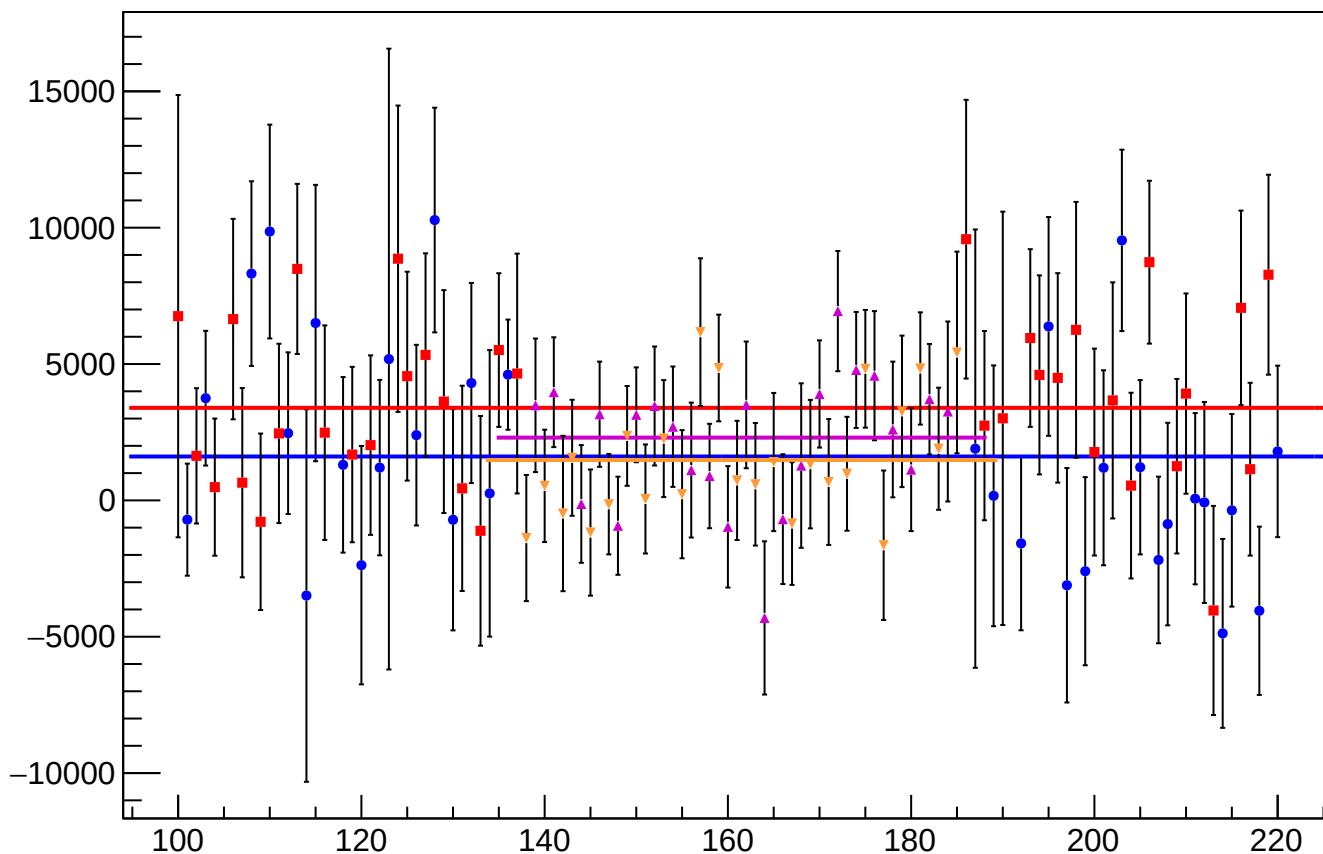
Right: 2145.884 $\pm$ 0.257 χ^2 /NDF: 6391310.8/69

In: 1713.977 $\pm$ 0.210 χ^2 /NDF: 6039260.0/56

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

All: 1727.250 $\pm$ 0.149 χ^2 /NDF: 12058328.8/122

asym_usr_mean vs Slug, Sign Corrected



Right In: 1608.858 $\pm$ 587.630 χ^2 /NDF: 41.1/33

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

Right Out: 3393.531 $\pm$ 596.693 χ^2 /NDF: 26.4/35

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

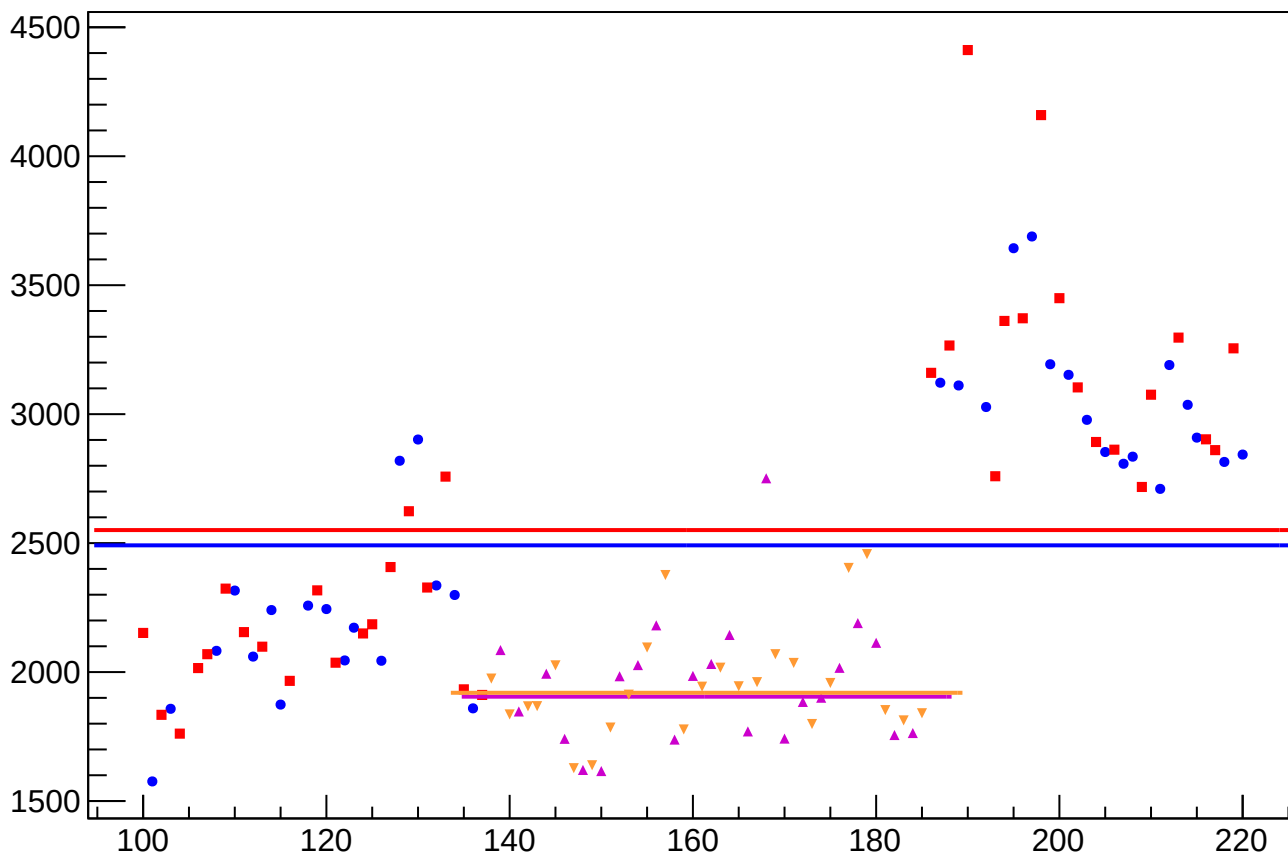
Right: 2487.538 $\pm$ 418.685 χ^2 /NDF: 72.0/69

In: 2038.852 $\pm$ 361.748 χ^2 /NDF:66.7/56

Out: 2175.226 $\pm$ 359.273 χ^2 /NDF:53.9/60

All: 2107.507 $\pm$ 254.915 χ^2 /NDF: 120.7/117

asym_usr_rms vs Slug, Sign Corrected



Right In: 2491.354+/-0.416 χ^2/NDF : 1852323.9/33

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

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

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

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

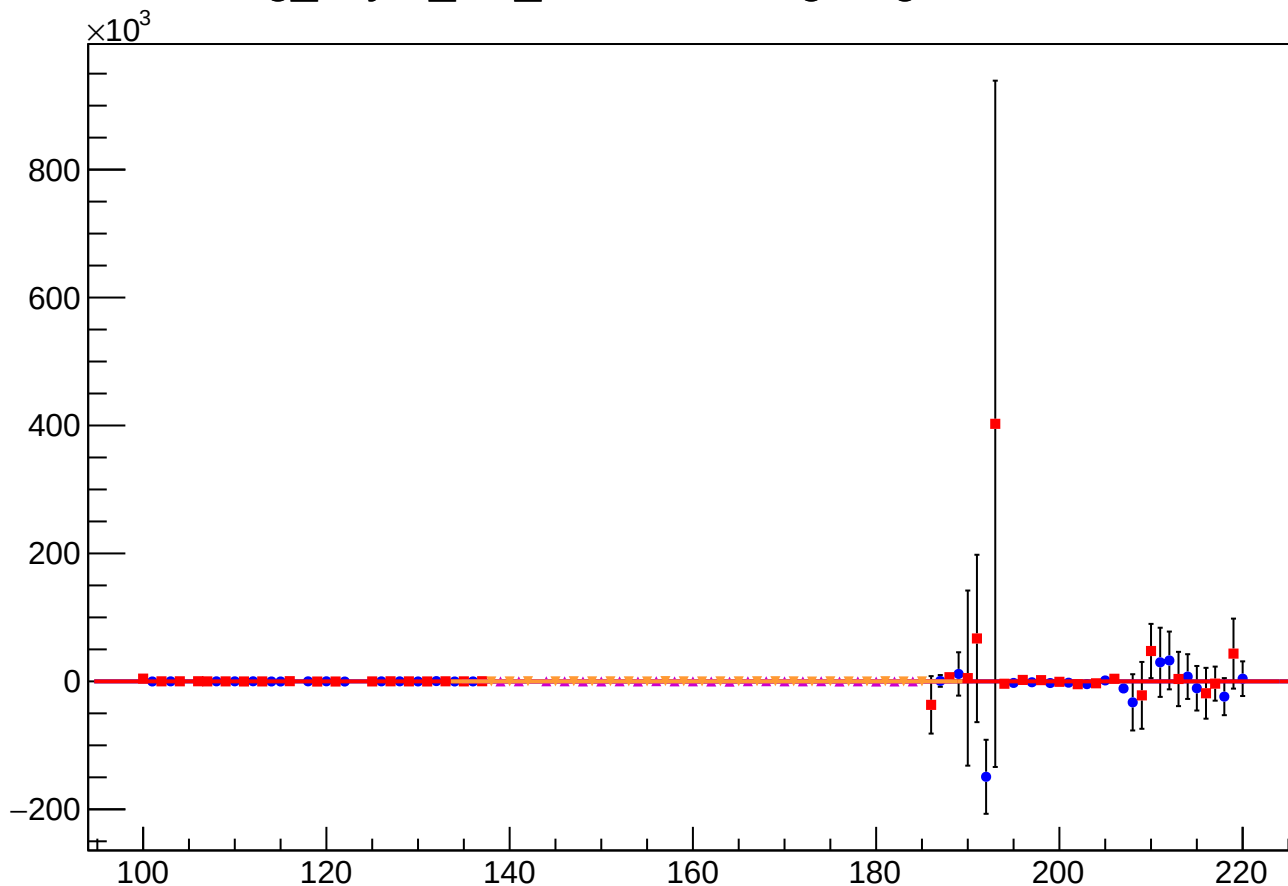
Right: 2520.504+/-0.296 χ^2/NDF : 3767383.3/69

In: 2126.980+/-0.256 χ^2/NDF : 3537914.4/56

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

All: 2137.778+/-0.180 χ^2/NDF : 7237707.5/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.377 ± 36.762 $\chi^2/\text{NDF}: 33.7/32$

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

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

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

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

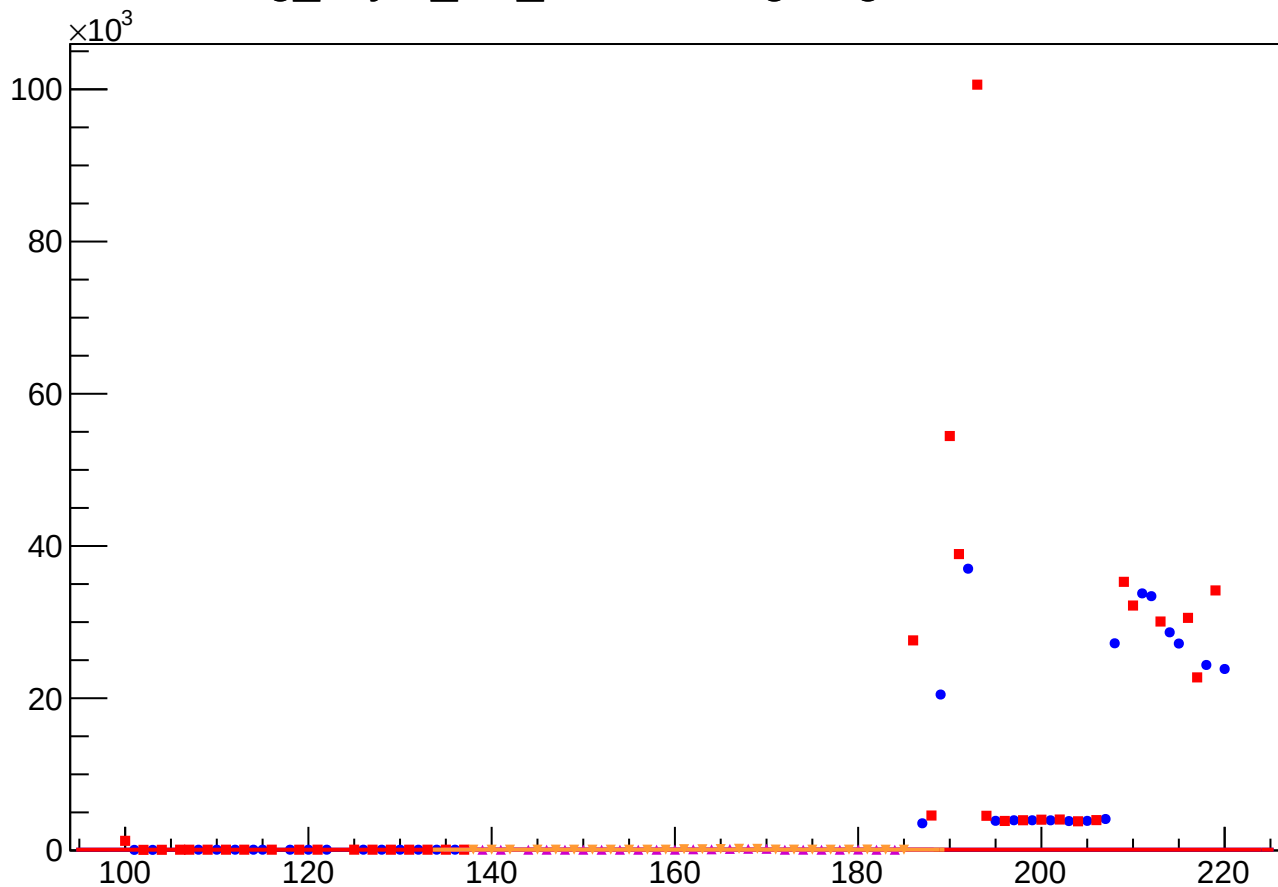
Right: -0.260 ± 25.989 $\chi^2/\text{NDF}: 55.5/68$

In: 15.570 ± 21.413 $\chi^2/\text{NDF}: 70.5/55$

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

All: 12.149 ± 15.124 $\chi^2/\text{NDF}: 128.2/115$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.237 $\pm$ 0.026 χ^2 /NDF: 20949650.8/32

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

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

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

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

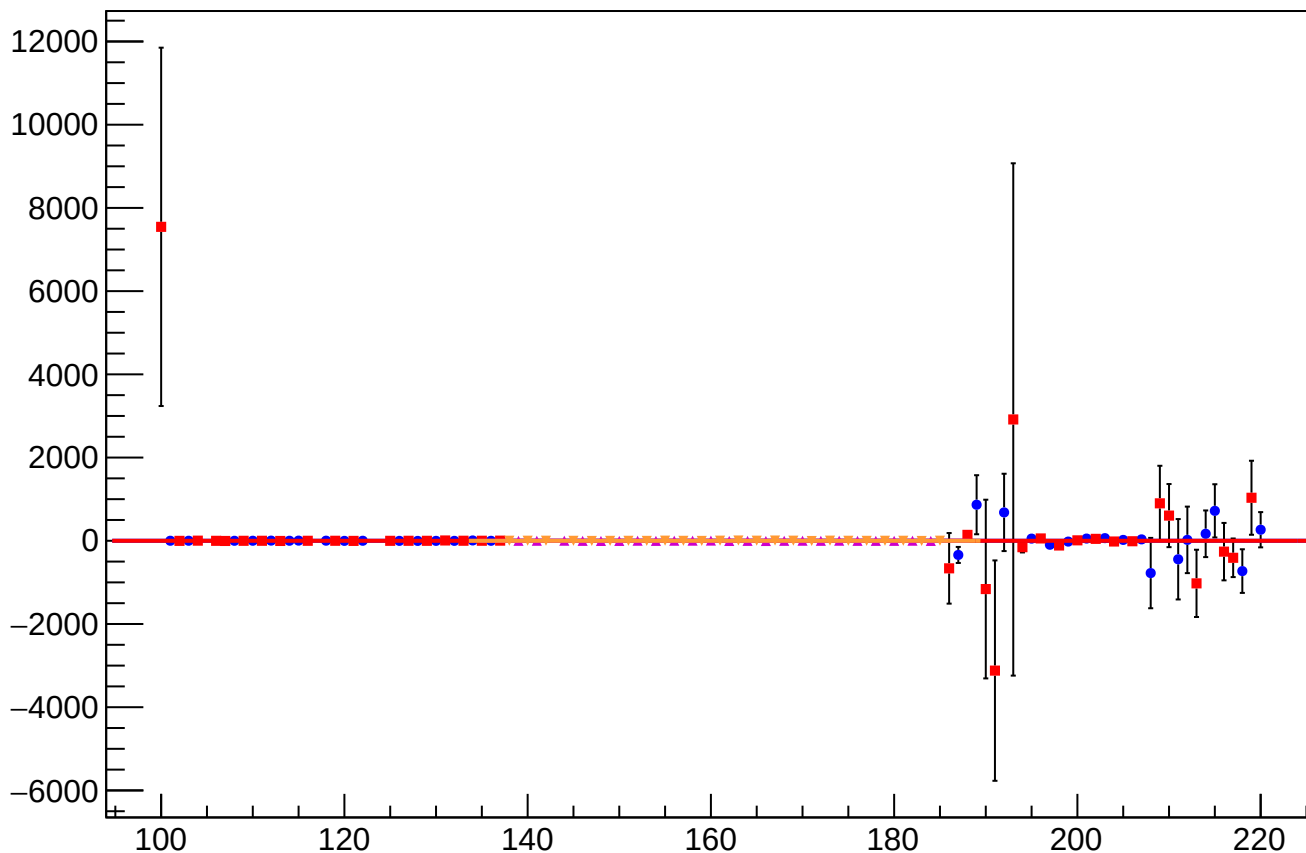
Right: 97.308 $\pm$ 0.018 χ^2 /NDF: 39923103.2/68

In: 103.793 $\pm$ 0.015 χ^2 /NDF: 22568549.1/55

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

All: 104.291 $\pm$ 0.011 χ^2 /NDF: 43067645.6/111

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 χ^2/NDF : 24.1/32

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

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

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

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

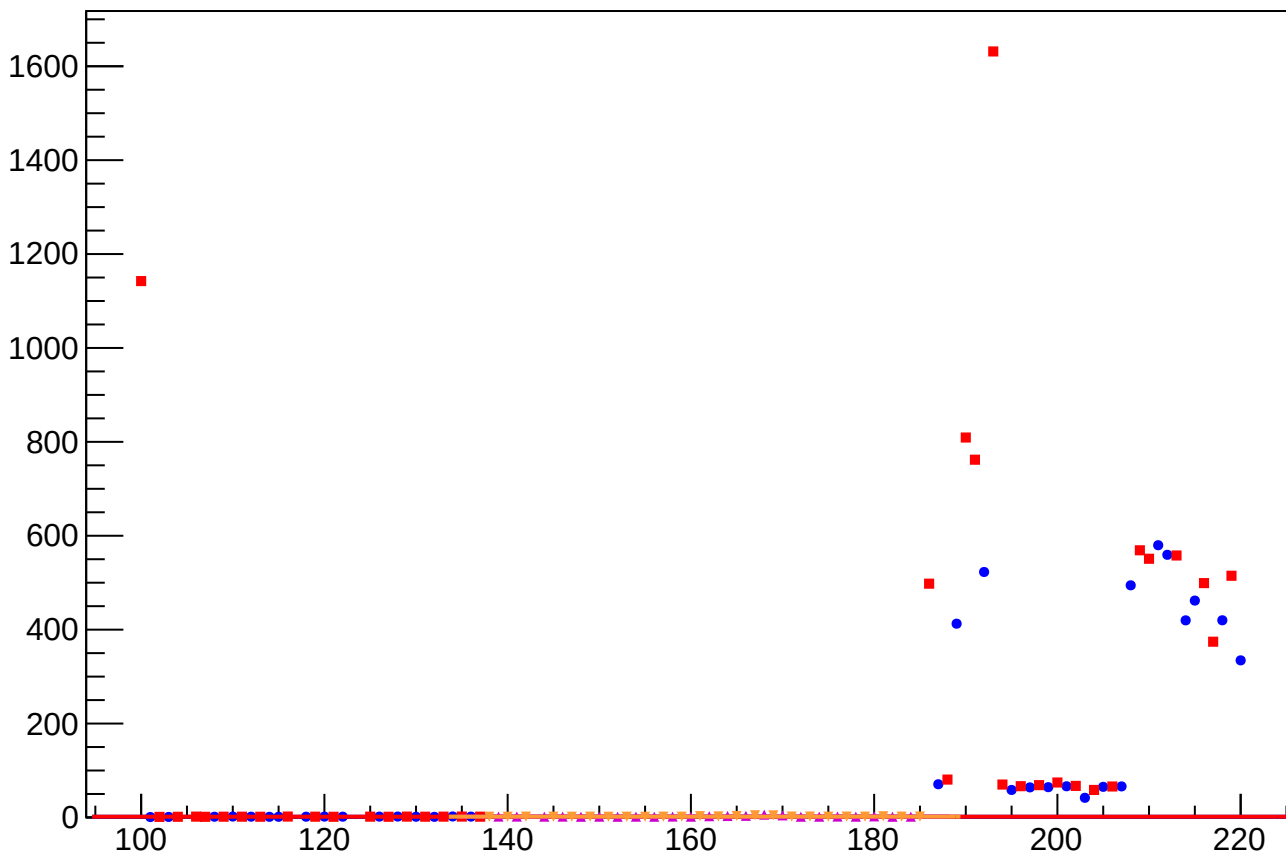
Right: 0.041 ± 0.445 χ^2/NDF : 60.0/68

In: 0.110 ± 0.381 χ^2/NDF : 49.5/55

Out: -0.468 ± 0.382 χ^2/NDF : 65.8/59

All: -0.178 ± 0.270 χ^2/NDF : 116.4/115

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.000 χ^2/NDF : 18121937.6/32

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

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

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

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

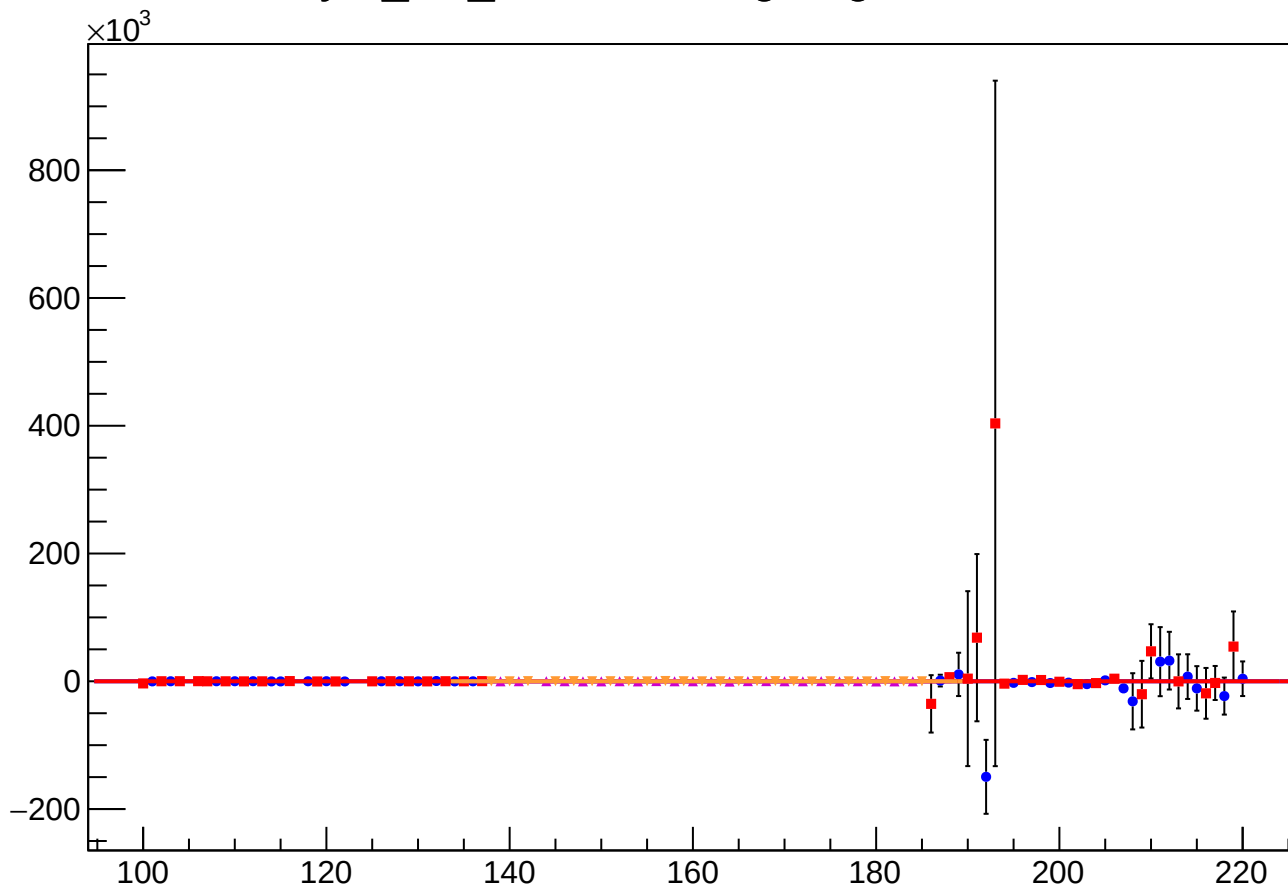
Right: 1.517+/-0.000 χ^2/NDF : 34895776.4/68

In: 1.669+/-0.000 χ^2/NDF : 20440811.7/55

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

All: 1.688+/-0.000 χ^2/NDF : 38885049.8/115

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.090 ± 36.771 χ^2/NDF : 33.9/32

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

Right Out: 1.623 ± 36.757 χ^2/NDF : 21.5/35

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

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

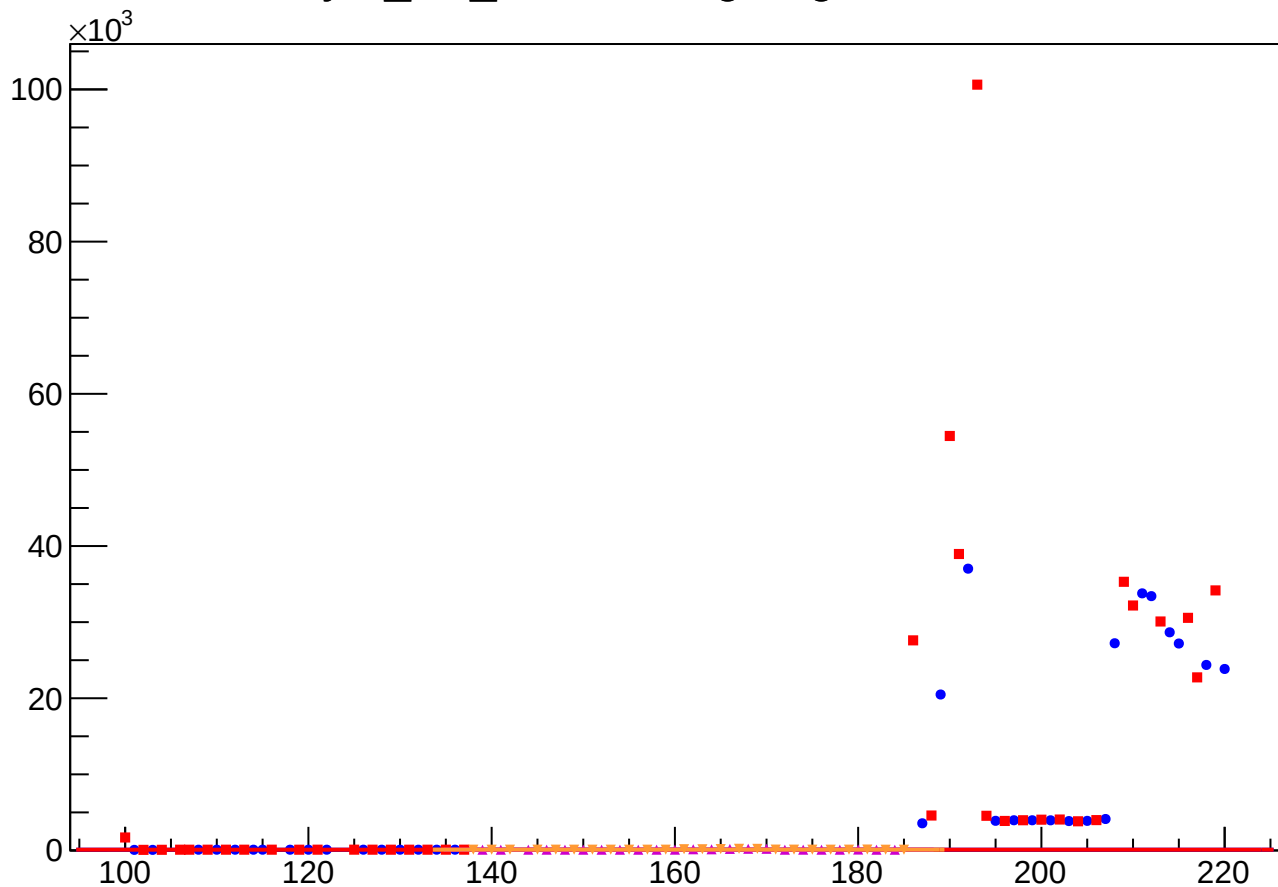
Right: -0.233 ± 25.996 χ^2/NDF : 55.4/68

In: 16.014 ± 21.419 χ^2/NDF : 70.0/55

Out: 9.119 ± 21.372 χ^2/NDF : 57.3/59

All: 12.559 ± 15.129 χ^2/NDF : 127.3/115

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.262 $\pm$ 0.026 χ^2 /NDF: 20949629.0/32

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

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

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

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

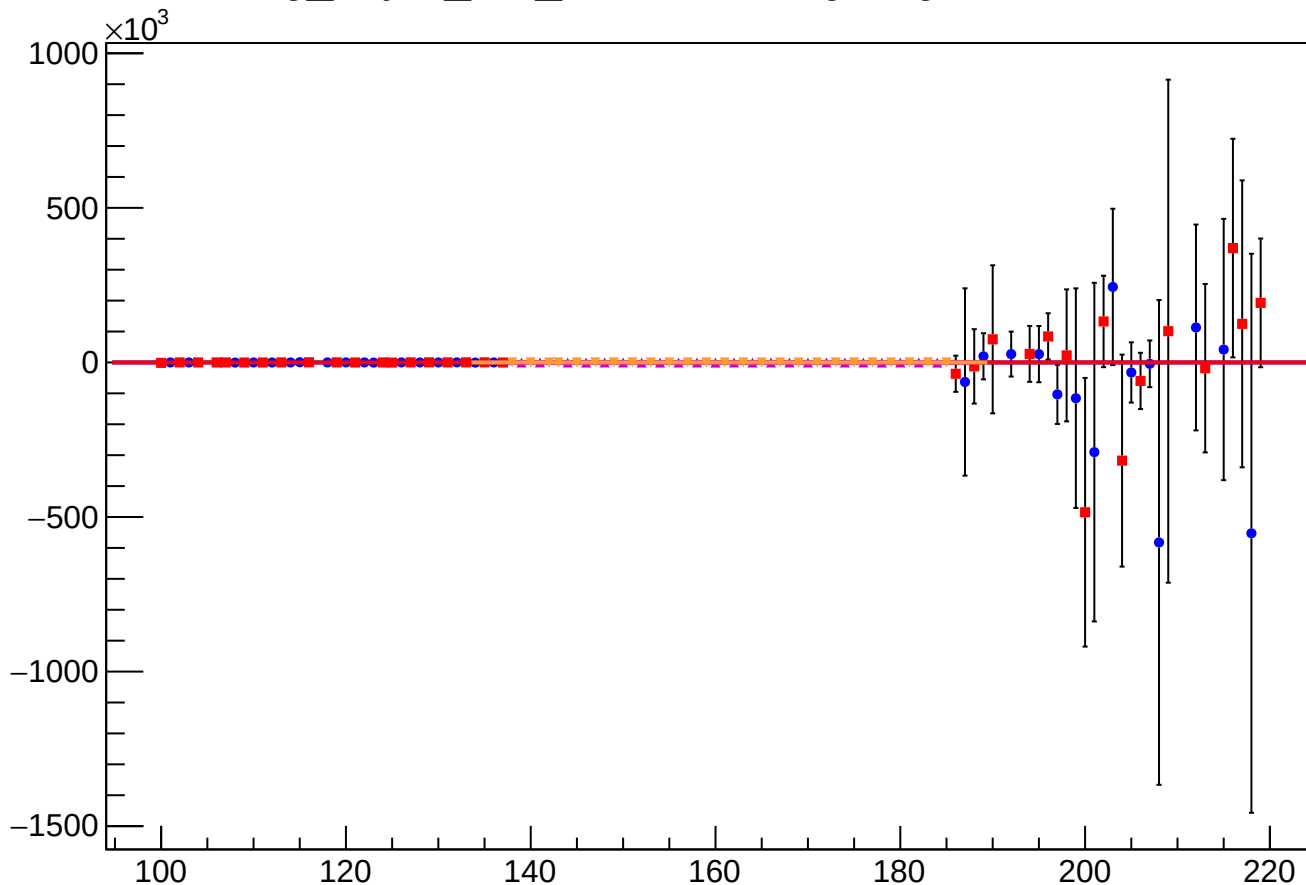
Right: 97.325 $\pm$ 0.018 χ^2 /NDF: 39928325.7/68

In: 103.821 $\pm$ 0.015 χ^2 /NDF: 22569893.9/55

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

All: 104.317 $\pm$ 0.011 χ^2 /NDF: 43076006.2/111

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.803 $\pm$ 46.841 χ^2 /NDF: 18.4/30

Left Out: -12.829 $\pm$ 32.063 χ^2 /NDF:12.0/24

Right Out: 53.407 $\pm$ 47.775 χ^2 /NDF: 22.7/33

Left In: -65.335 $\pm$ 32.944 χ^2 /NDF:19.3/22

Left: -38.371 $\pm$ 22.977 χ^2 /NDF: 32.6/47

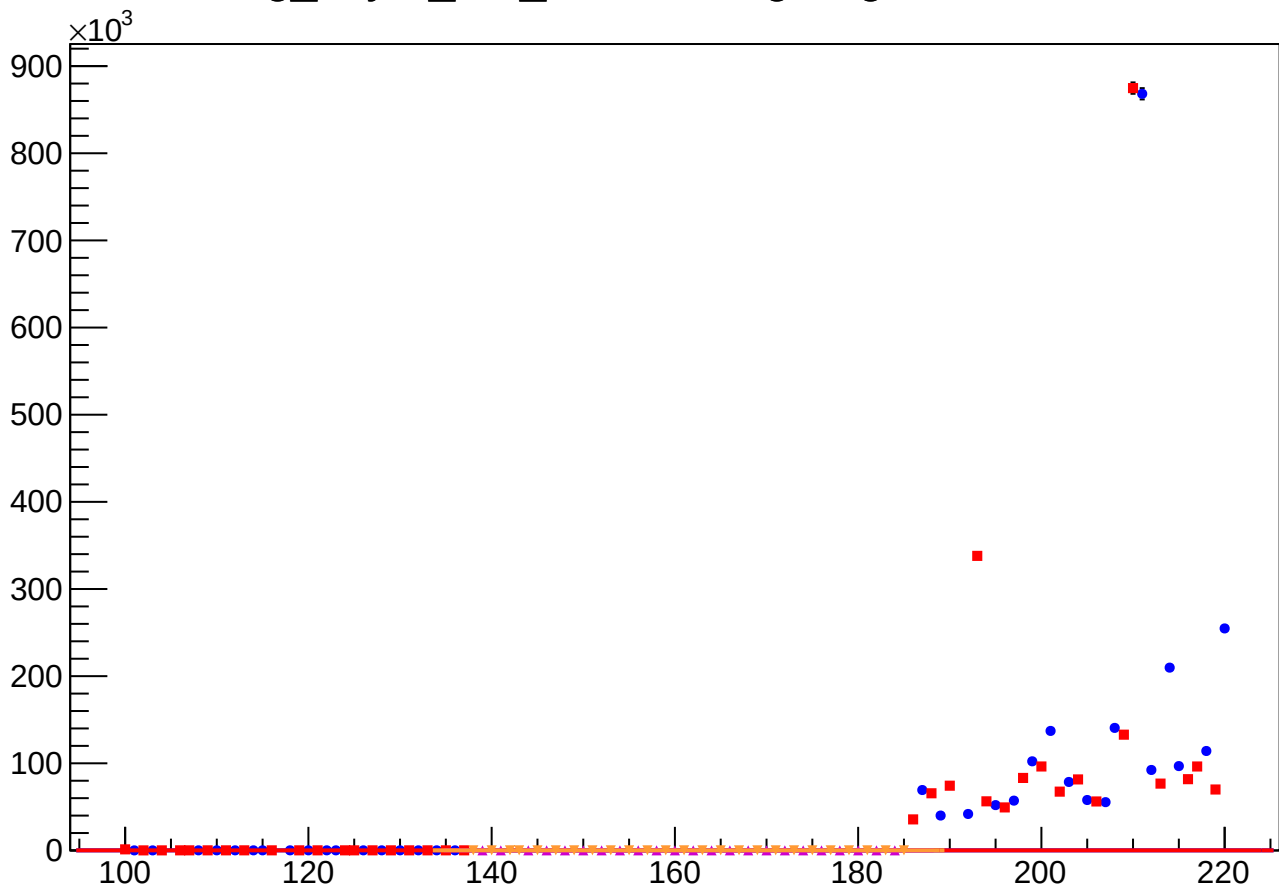
Right: 12.510 $\pm$ 33.447 χ^2 /NDF: 42.5/64

In: -52.583 $\pm$ 26.947 χ^2 /NDF:38.2/53

Out: 7.740 $\pm$ 26.623 χ^2 /NDF:36.0/58

All: -22.057 $\pm$ 18.939 χ^2 /NDF: 76.7/112

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.884 $\pm$ 0.033 χ^2 /NDF: 7137358.8/33

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

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

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

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

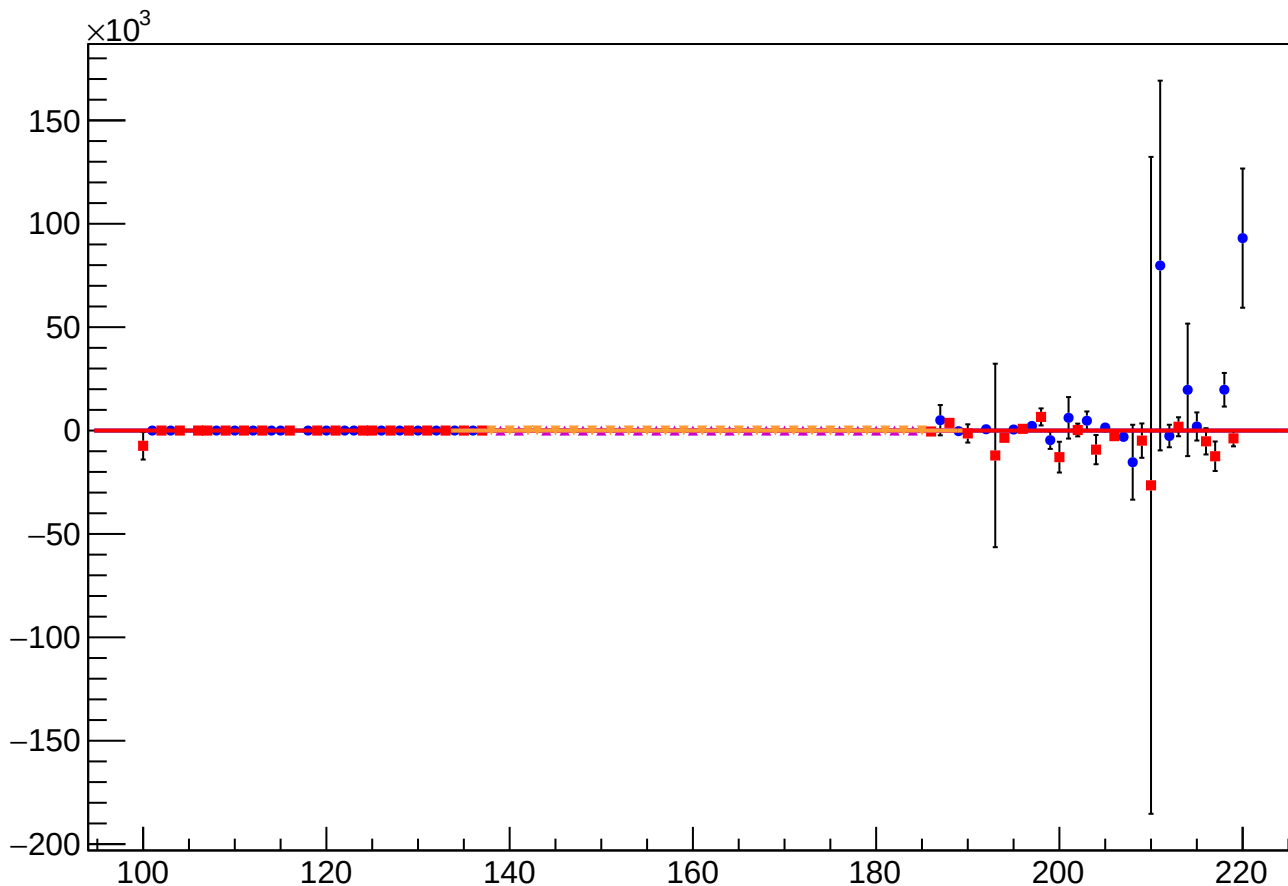
Right: 121.298 $\pm$ 0.024 χ^2 /NDF: 14198175.9/69

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7379833.6/56

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

All: 132.530 $\pm$ 0.013 χ^2 /NDF: 14531099.0/11

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 39.0/33

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

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

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

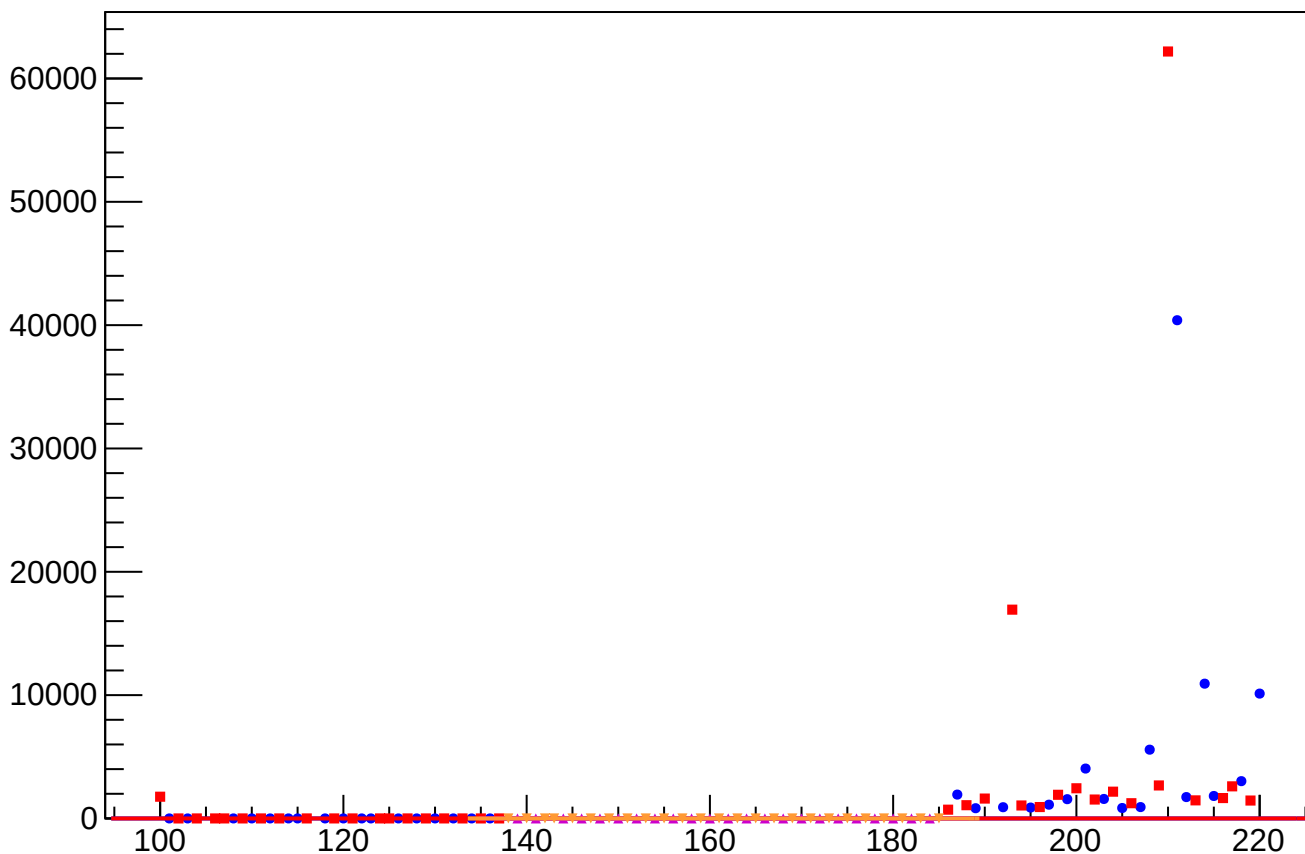
Right: -0.681 ± 0.587 χ^2/NDF : 76.4/69

In: -0.052 ± 0.471 χ^2/NDF : 60.7/56

Out: 0.139 ± 0.475 χ^2/NDF : 67.6/60

All: 0.043 ± 0.334 χ^2/NDF : 128.4/117

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 $\pm$ 0.001 χ^2 /NDF: 7267830.7/33

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

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

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

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

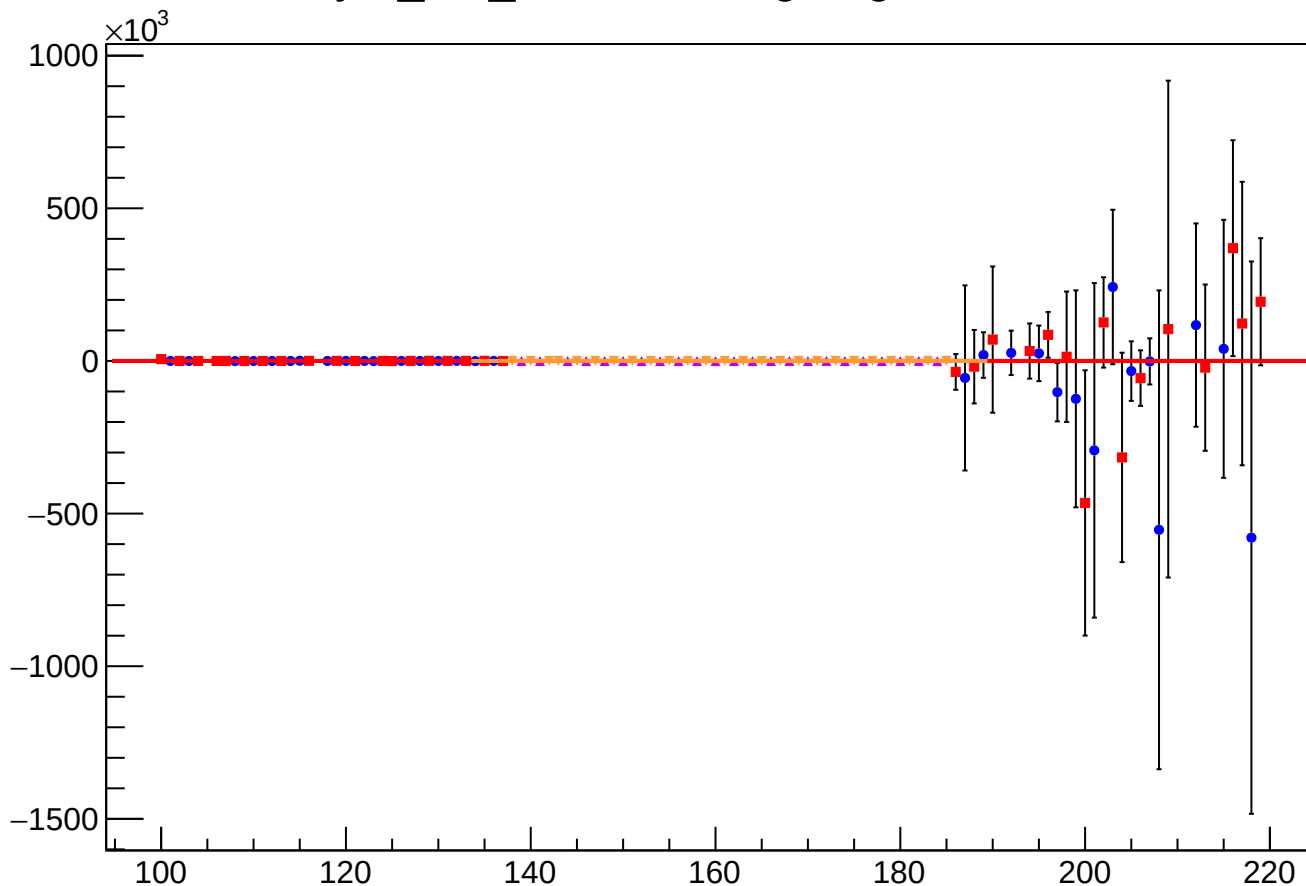
Right: 1.961 $\pm$ 0.000 χ^2 /NDF: 14799032.9/69

In: 2.083 $\pm$ 0.000 χ^2 /NDF: 7992958.6/56

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

All: 2.141 $\pm$ 0.000 χ^2 /NDF: 15977909.1/117

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.065 ± 46.854 χ^2/NDF : 18.4/30

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

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

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

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

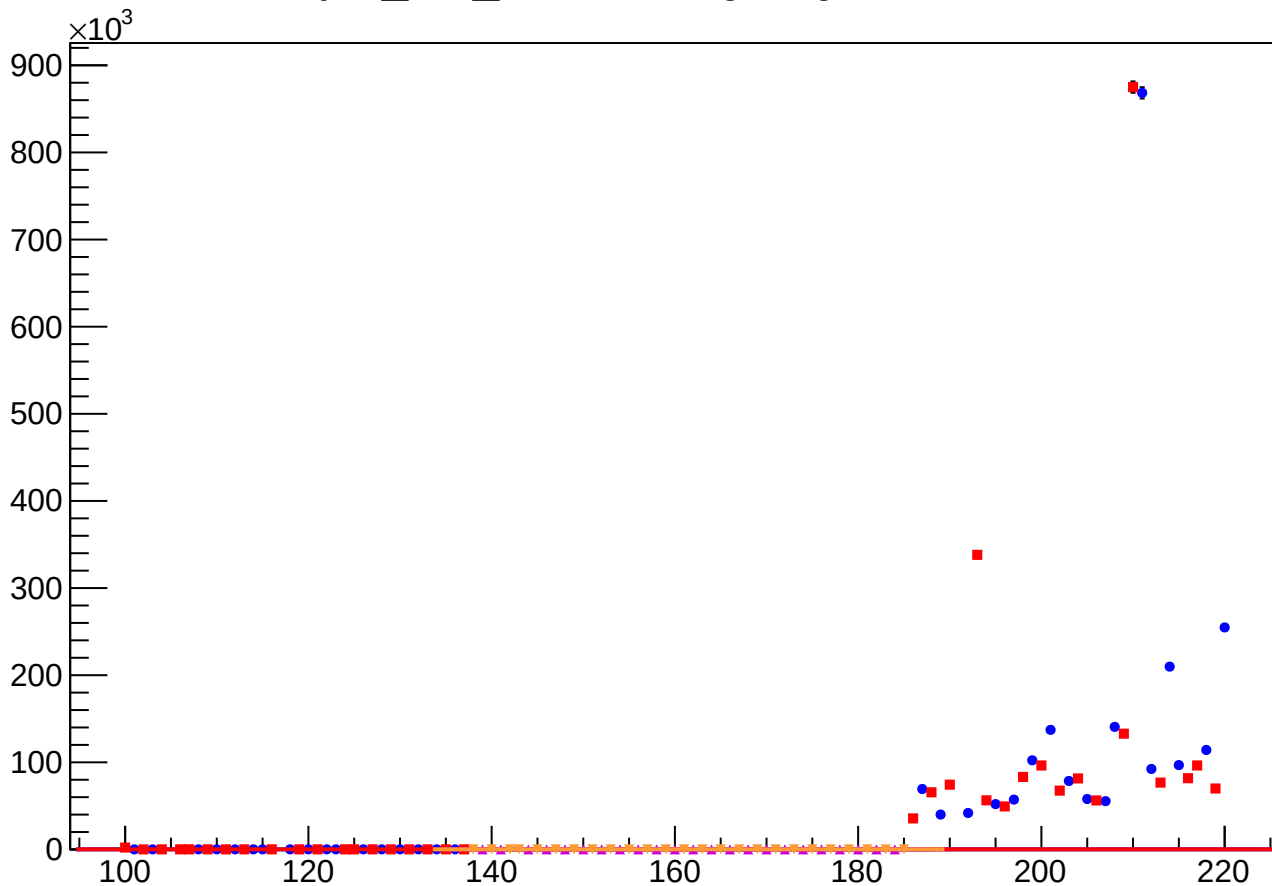
Right: 13.838 ± 33.456 χ^2/NDF : 43.0/64

In: -51.938 ± 26.954 χ^2/NDF : 38.3/53

Out: 7.638 ± 26.631 χ^2/NDF : 36.3/58

All: -21.791 ± 18.944 χ^2/NDF : 77.1/112

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.916+/-0.033 χ^2/NDF : 7137526.6/33

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

Right Out: 124.838 ± 0.034 χ^2/NDF : 7049817.7/35

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

Left: 137.870 ± 0.016 χ^2/NDF : 900.6/47

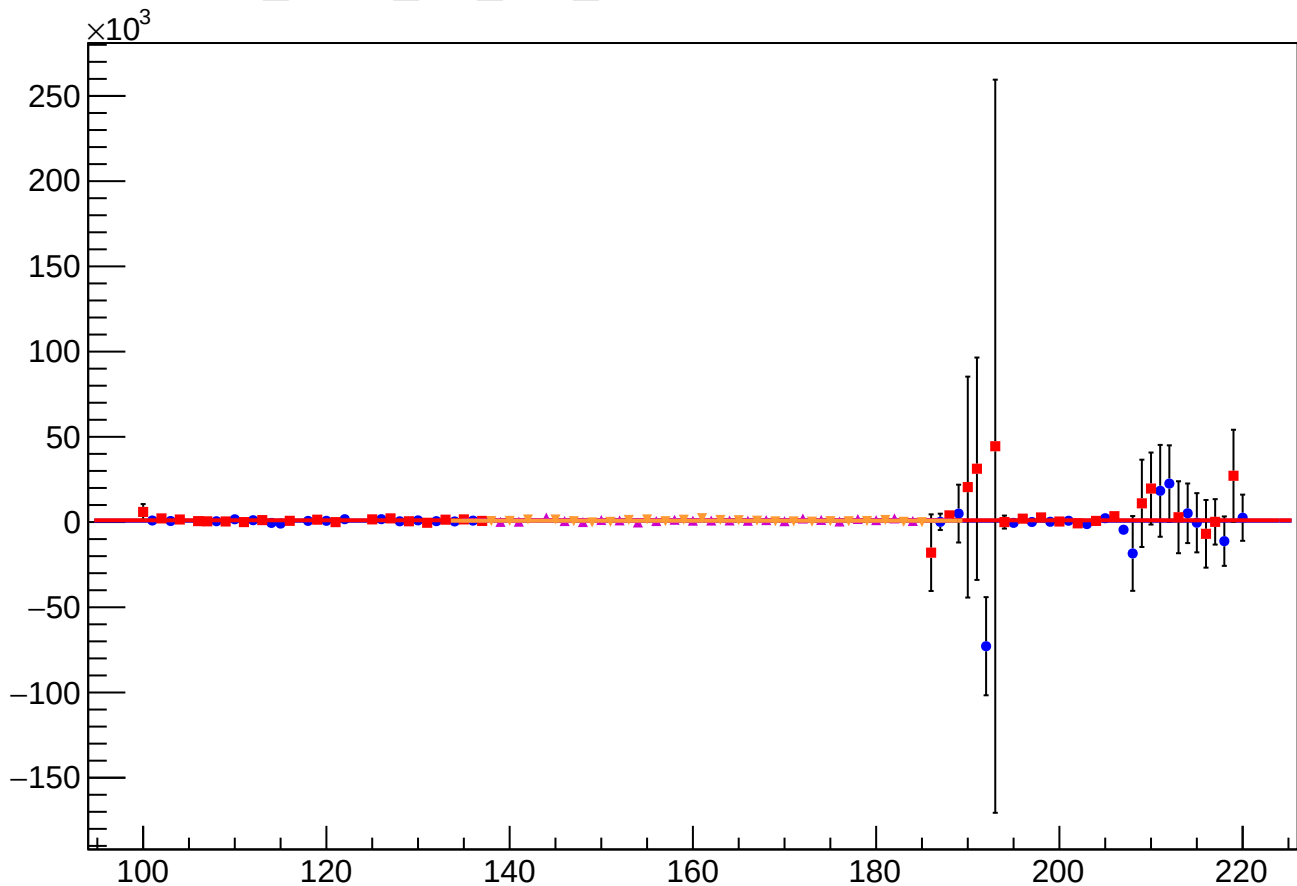
Right: 121.308 $\pm$ 0.024 χ^2 /NDF: 14208741.1/69

In: 131.248+/-0.019 χ^2/NDF : 7380036.8/56

Out: 133.840+/-0.019 χ^2/NDF :7153199.3/60

All: 132.560 ± 0.013 $\chi^2/\text{NDF}: 14542597.0/11$

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 767.204 $\pm$ 209.776 χ^2 /NDF: 21.7/32

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

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

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

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

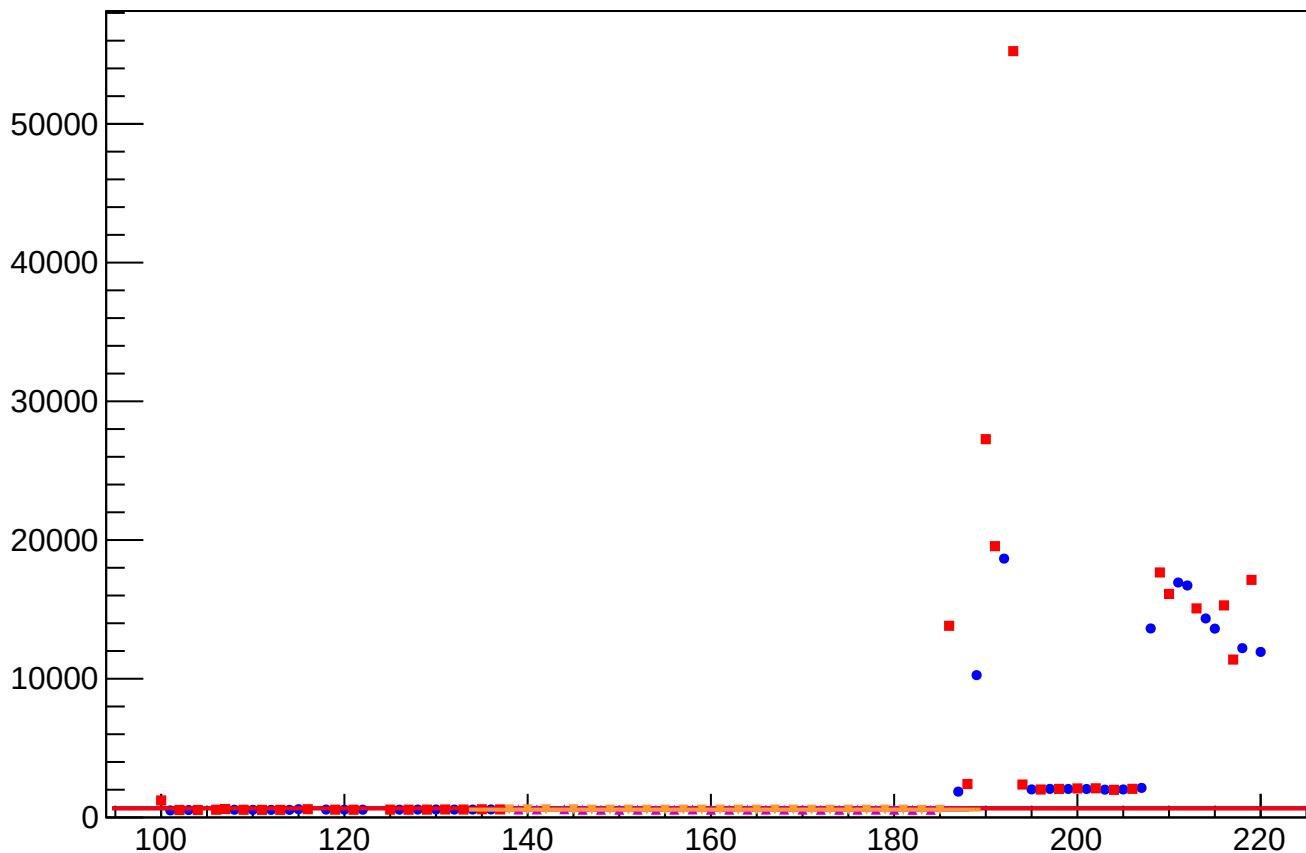
Right: 905.345 $\pm$ 147.423 χ^2 /NDF: 43.3/68

In: 913.765 $\pm$ 113.483 χ^2 /NDF:49.9/55

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

All: 886.576 $\pm$ 79.915 χ^2 /NDF: 91.0/115

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 663.204+/-0.148 χ^2/NDF : 14689390.3/32

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

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

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

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

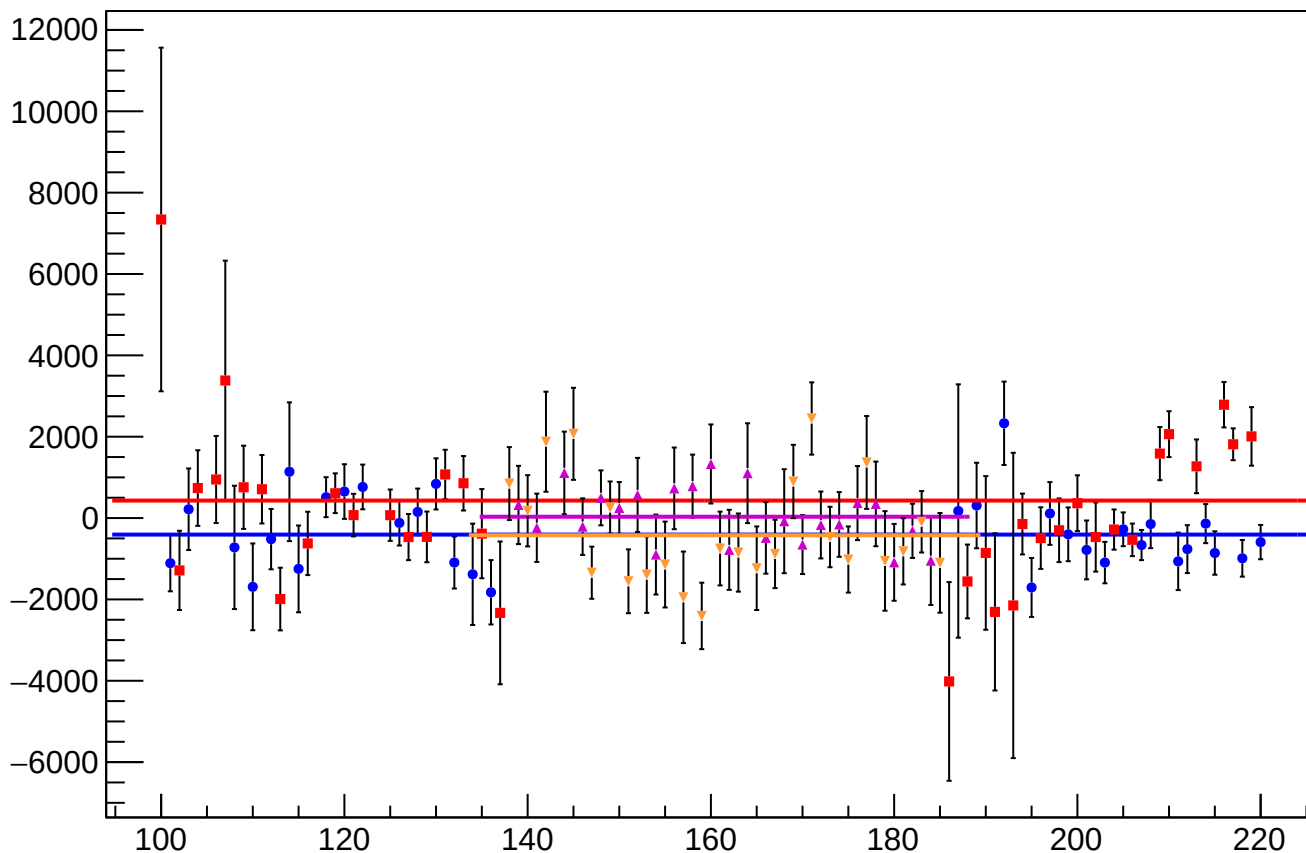
Right: 660.671+/-0.104 χ^2/NDF : 27898213.7/68

In: 593.303+/-0.080 χ^2/NDF : 15012543.6/55

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

All: 592.592+/-0.057 χ^2/NDF : 28521006.0/114

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -406.296 ± 109.507 $\chi^2/\text{NDF}: 43.3/32$

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

Right Out: 430.158 ± 118.205 $\chi^2/\text{NDF}: 100.4/35$

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

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

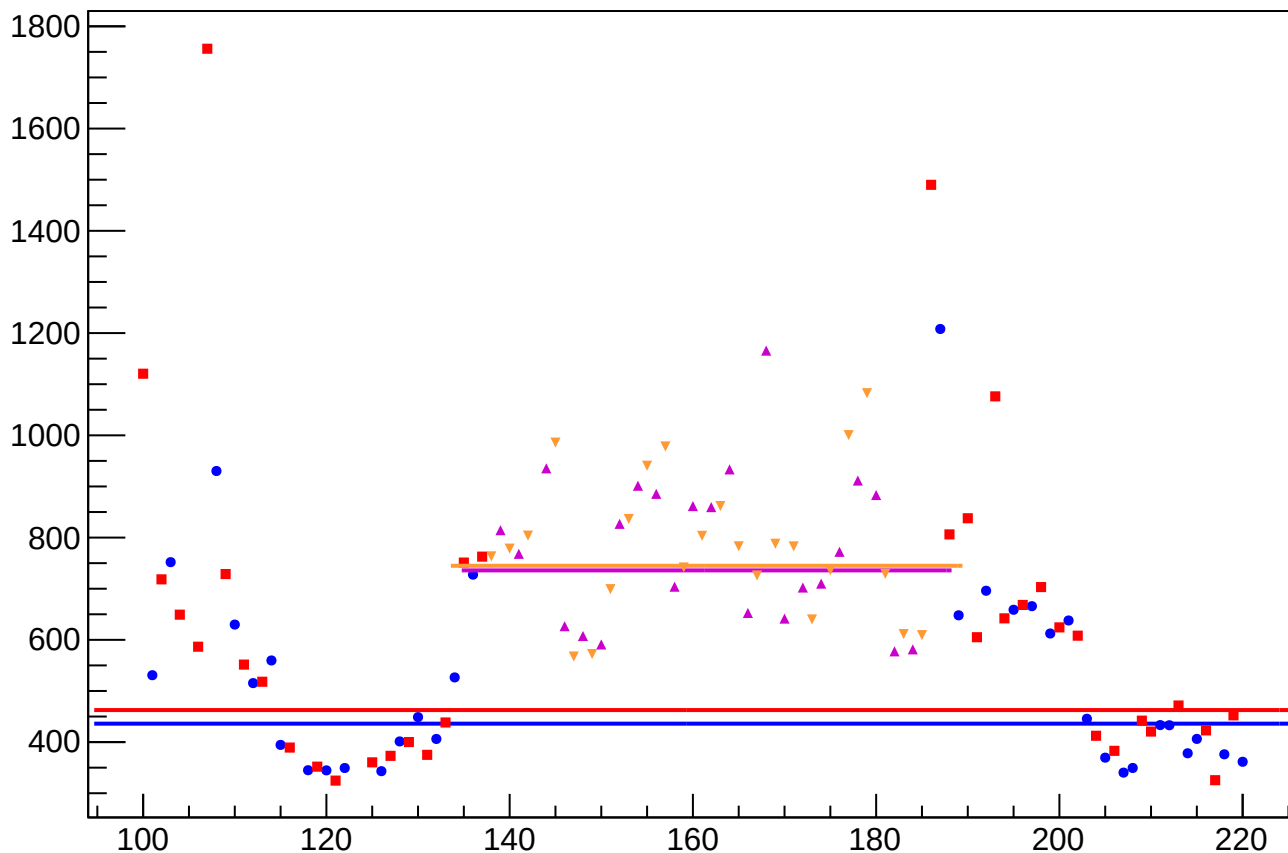
Right: -19.974 ± 80.333 $\chi^2/\text{NDF}: 170.7/68$

In: -287.236 ± 93.474 $\chi^2/\text{NDF}: 59.9/55$

Out: 174.401 ± 98.906 $\chi^2/\text{NDF}: 159.2/59$

All: -69.441 ± 67.935 $\chi^2/\text{NDF}: 230.6/115$

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 436.080 $\pm$ 0.077 χ^2 /NDF: 2415517.4/32

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

Right Out: 462.655 $\pm$ 0.084 χ^2 /NDF: 3244348.2/35

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

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

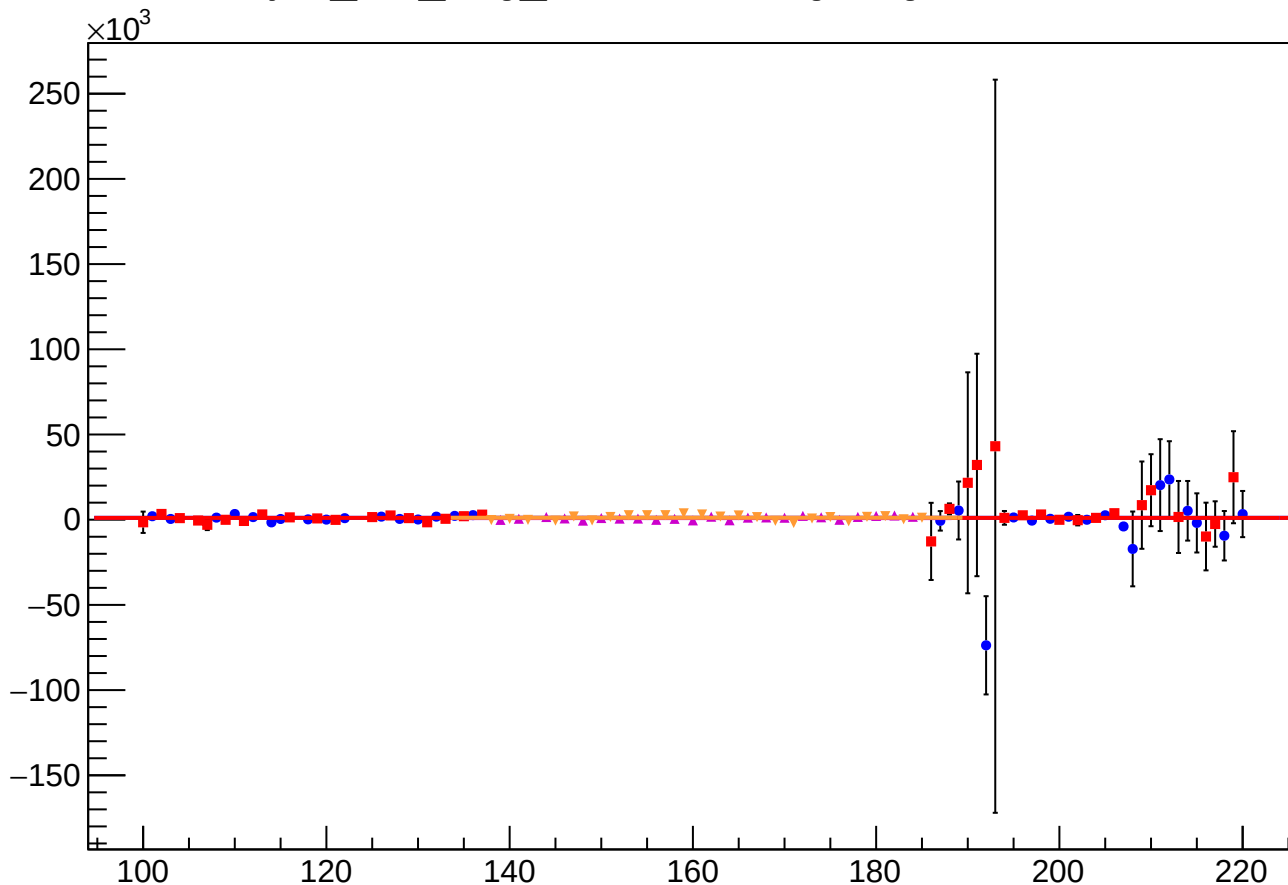
Right: 448.354 $\pm$ 0.057 χ^2 /NDF: 5714266.6/68

In: 517.433 $\pm$ 0.066 χ^2 /NDF:7588281.9/55

Out: 547.300 $\pm$ 0.070 χ^2 /NDF:7672959.1/59

All: 531.524 $\pm$ 0.048 χ^2 /NDF: 15357569.1/11

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1091.808 $\pm$ 280.406 χ^2 /NDF: 27.5/32

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

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

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

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

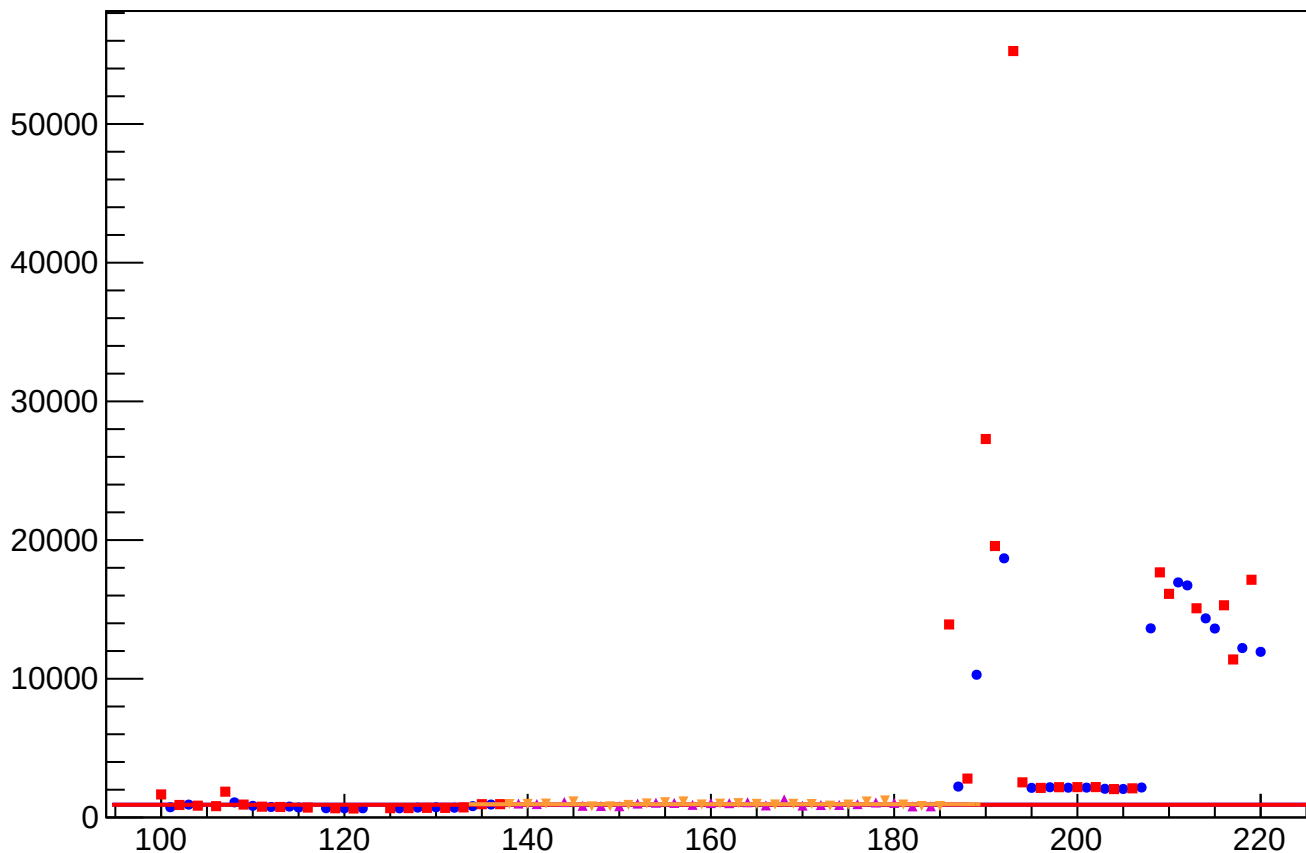
Right: 1076.802 $\pm$ 198.220 χ^2 /NDF: 59.1/68

In: 1001.547 $\pm$ 177.053 χ^2 /NDF: 42.4/55

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

All: 1054.457 $\pm$ 125.265 χ^2 /NDF: 113.1/115

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 919.295+/-0.198 χ^2/NDF : 13168688.3/32

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

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

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

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

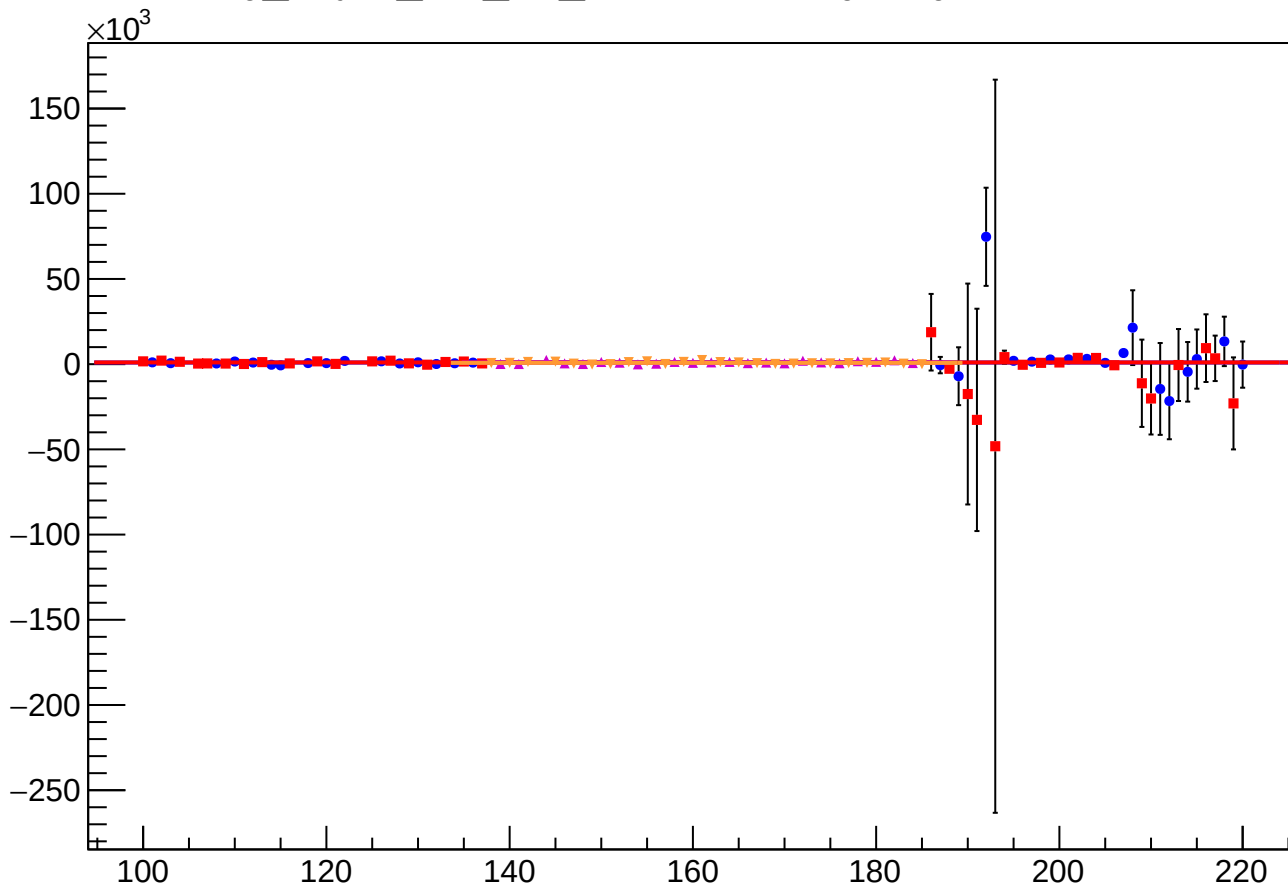
Right: 916.753+/-0.140 χ^2/NDF : 25320446.1/68

In: 935.698+/-0.125 χ^2/NDF : 13681435.9/55

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

All: 936.989+/-0.089 χ^2/NDF : 26317818.5/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 959.386 ± 209.645 χ^2/NDF : 24.5/32

Left Out: 757.642 ± 133.942 χ^2/NDF : 21.0/23

Right Out: 1015.218 ± 202.613 χ^2/NDF : 21.1/35

Left In: 958.517 ± 134.824 χ^2/NDF : 26.8/22

Left: 857.420 ± 95.022 χ^2/NDF : 49.0/46

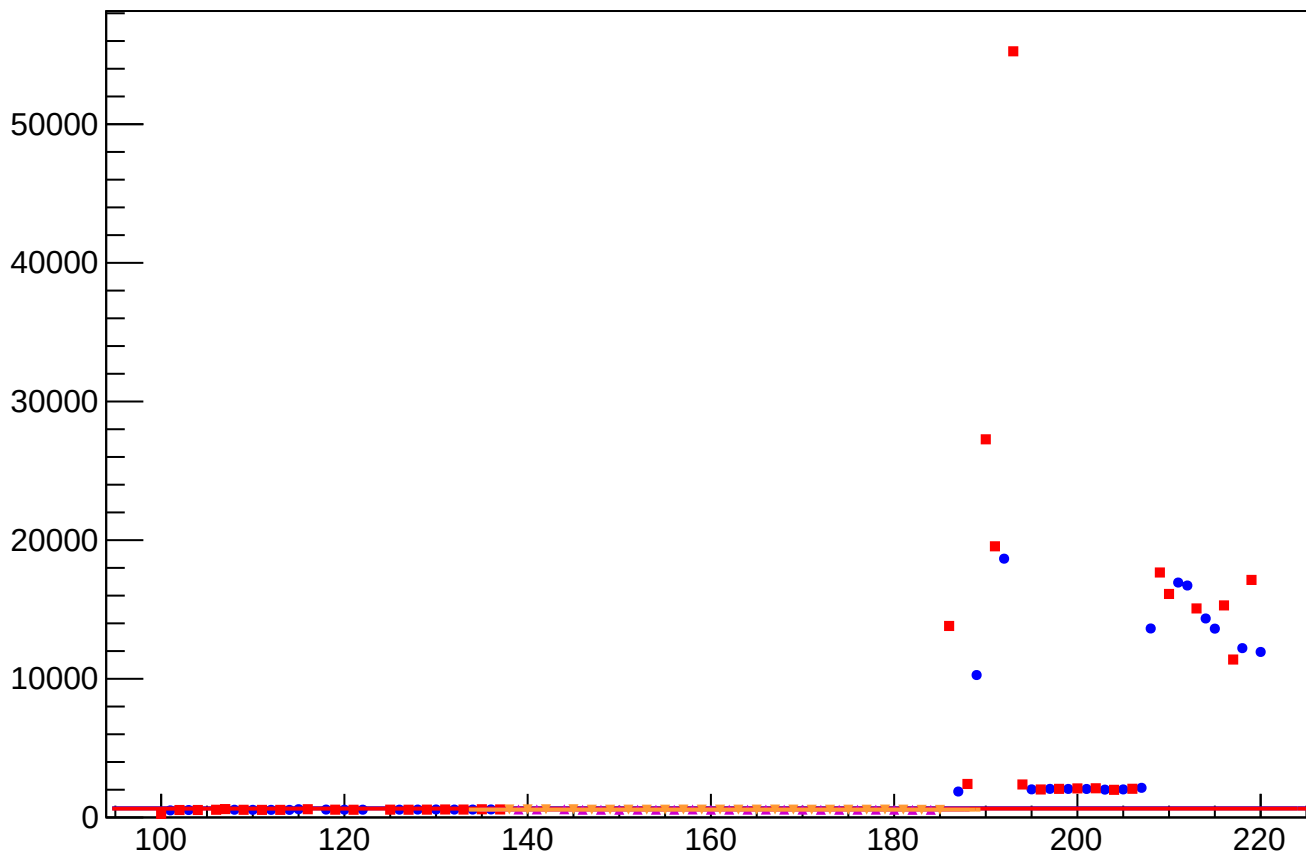
Right: 988.254 ± 145.692 χ^2/NDF : 45.6/68

In: 958.771 ± 113.399 χ^2/NDF : 51.4/55

Out: 835.975 ± 111.734 χ^2/NDF : 43.2/59

All: 896.465 ± 79.590 χ^2/NDF : 95.2/115

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 662.563+/-0.148 χ^2/NDF : 14704097.6/32

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

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

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

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

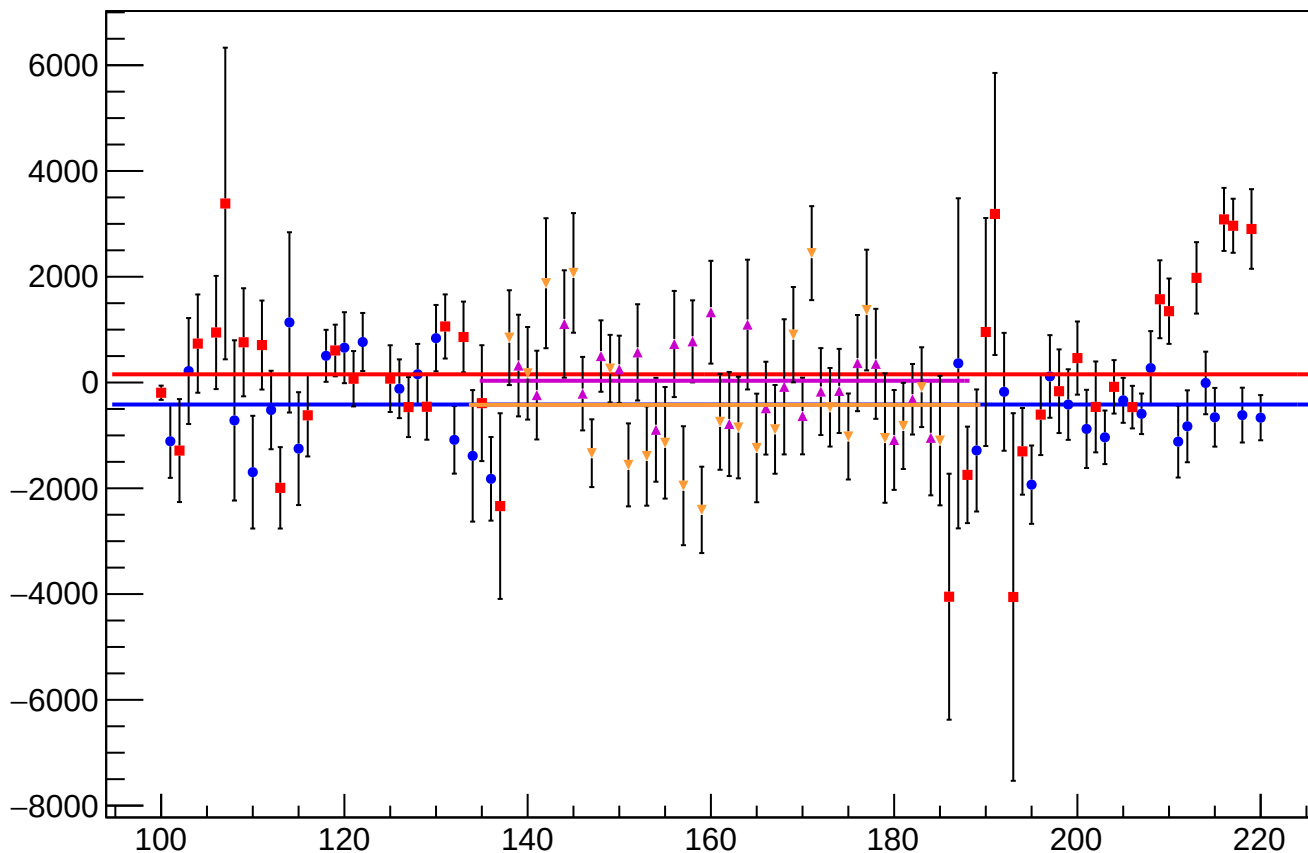
Right: 650.109+/-0.103 χ^2/NDF : 28244773.7/68

In: 592.791+/-0.080 χ^2/NDF :15026447.1/55

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

All: 589.560+/-0.056 χ^2/NDF : 28755915.4/11

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -415.891 ± 113.423 χ^2/NDF : 36.2/32

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

Right Out: 155.222 ± 90.841 χ^2/NDF : 129.8/35

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

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

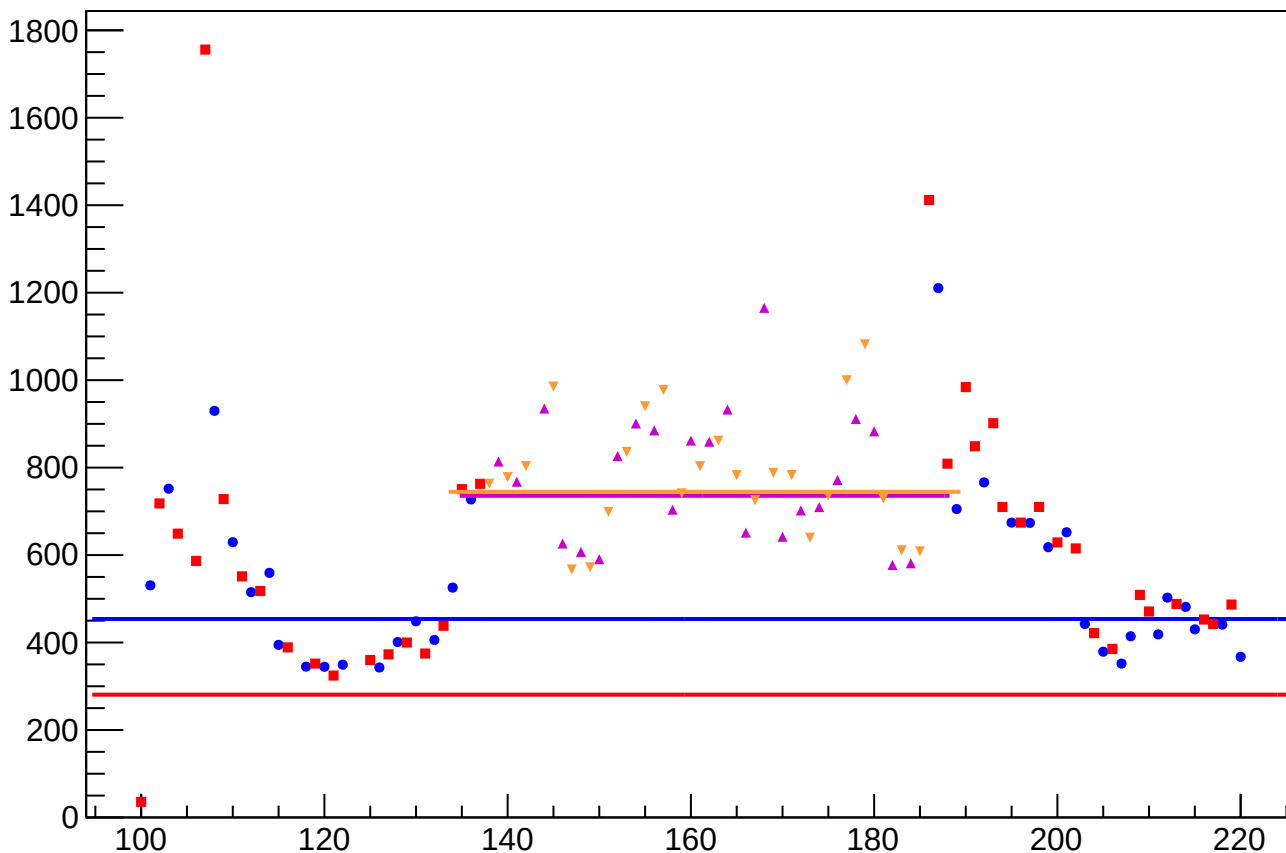
Right: -67.958 ± 70.903 χ^2/NDF : 181.4/68

In: -287.562 ± 95.862 χ^2/NDF : 52.8/55

Out: 38.535 ± 81.147 χ^2/NDF : 181.2/59

All: -97.589 ± 61.936 χ^2/NDF : 240.7/115

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 453.787+/-0.080 χ^2/NDF : 2345498.4/32

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

Right Out: 280.825+/-0.064 χ^2/NDF : 15051364.6/35

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

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

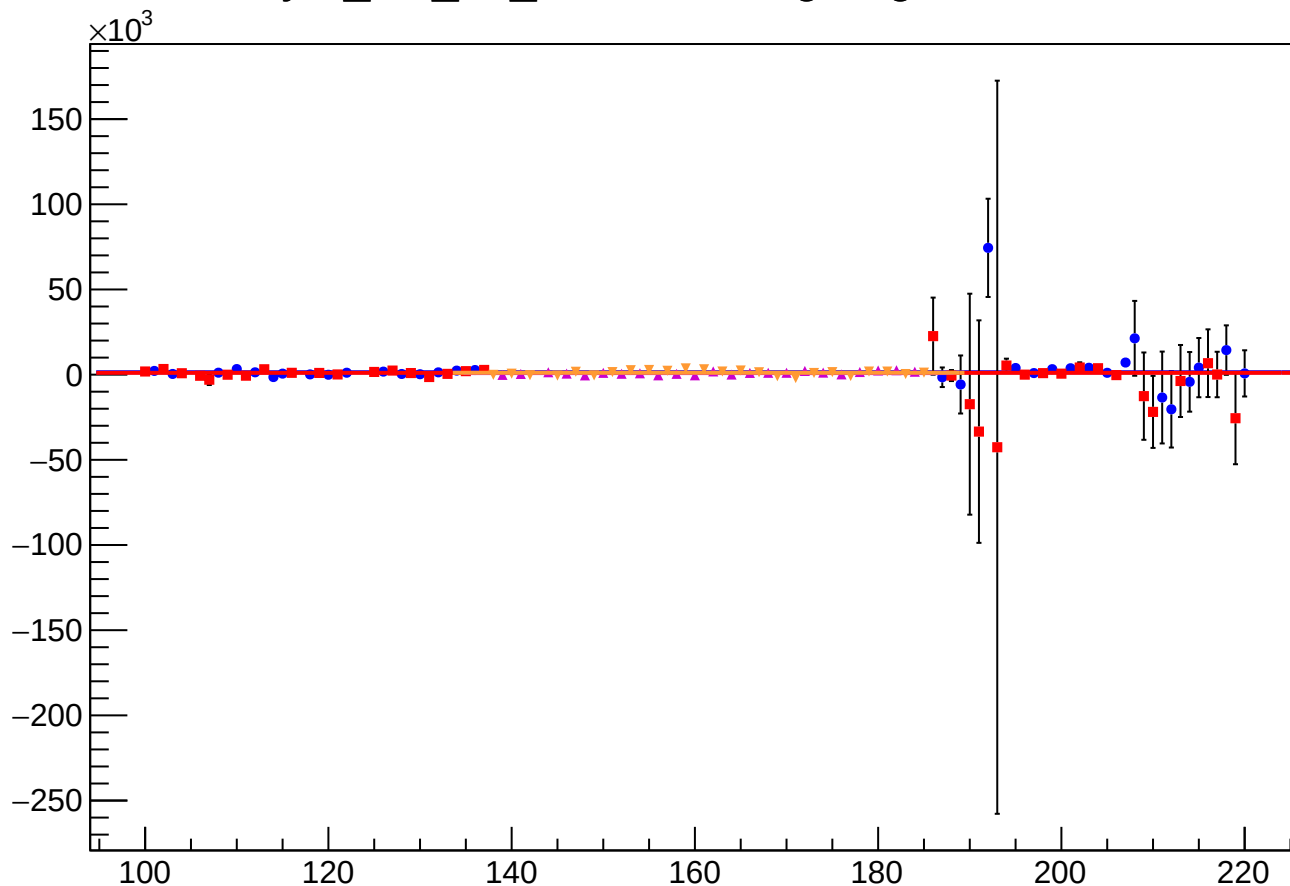
Right: 348.415+/-0.050 χ^2/NDF : 20230255.8/68

In: 534.277+/-0.068 χ^2/NDF : 6976411.9/55

Out: 374.525+/-0.057 χ^2/NDF : 26593080.0/59

All: 441.211+/-0.044 χ^2/NDF : 36805217.3/11

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1411.376 $\pm$ 280.310 χ^2 /NDF: 31.9/32

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

Right Out: 1067.524 $\pm$ 269.361 χ^2 /NDF: 30.6/35

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

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

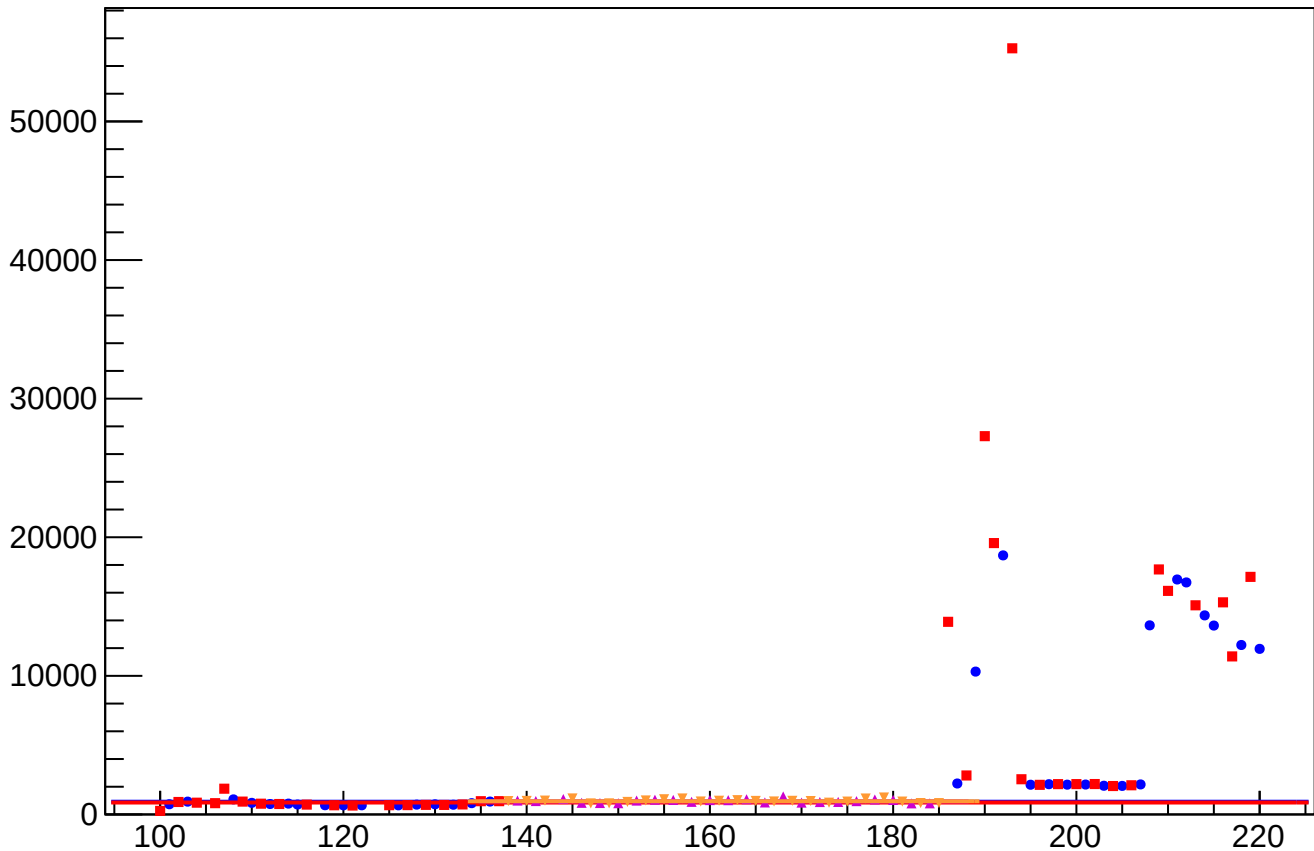
Right: 1232.603 $\pm$ 194.223 χ^2 /NDF: 63.3/68

In: 1119.631 $\pm$ 176.969 χ^2 /NDF: 48.8/55

Out: 1089.385 $\pm$ 174.338 χ^2 /NDF: 68.8/59

All: 1104.281 $\pm$ 124.195 χ^2 /NDF: 117.7/115

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 918.536+/-0.198 χ^2/NDF : 13190528.5/32

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

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

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

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

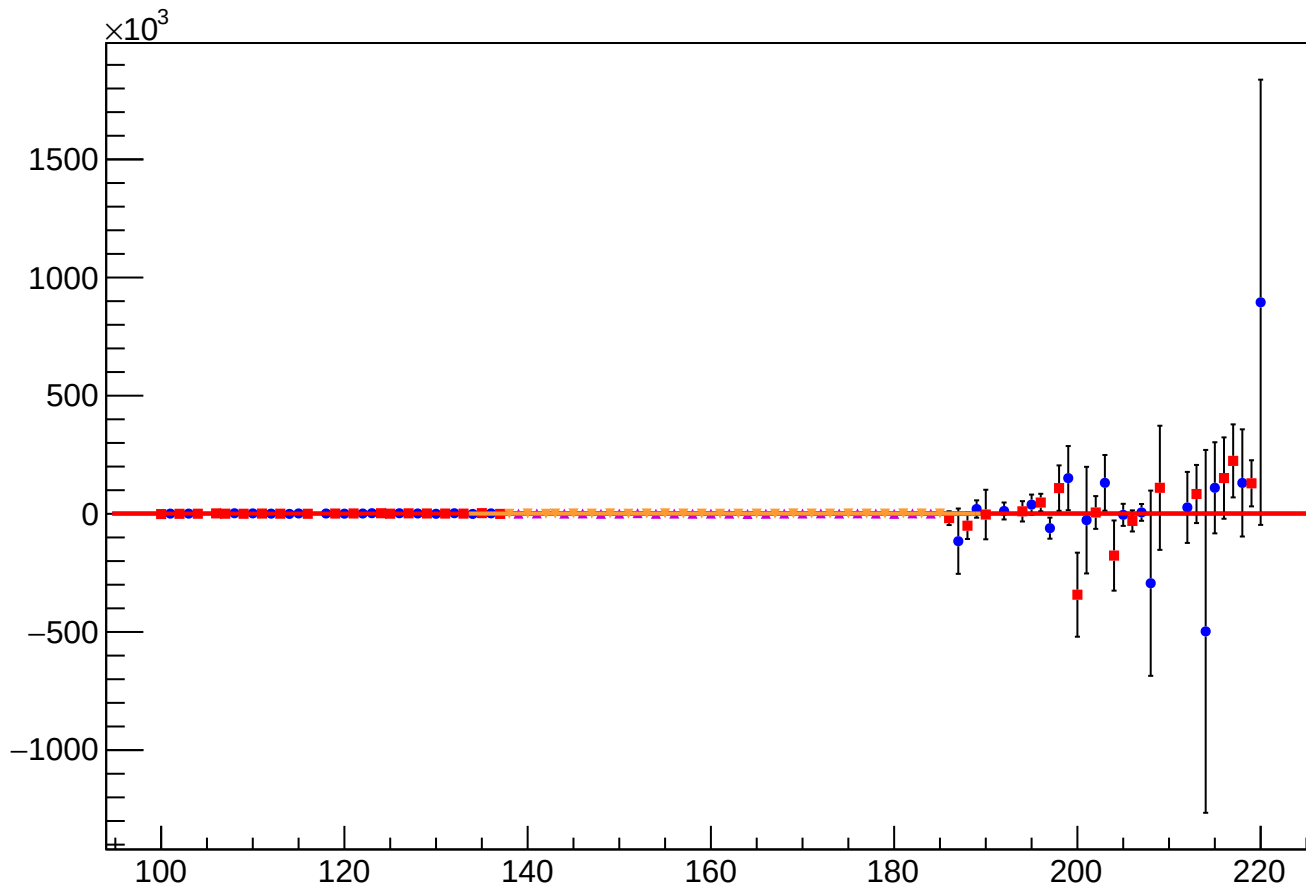
Right: 888.807+/-0.137 χ^2/NDF : 26220415.5/68

In: 935.078+/-0.125 χ^2/NDF : 13703551.9/55

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

All: 924.921+/-0.088 χ^2/NDF : 27300197.8/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.424 $\pm$ 218.578 χ^2 /NDF: 21.6/32

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

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

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

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

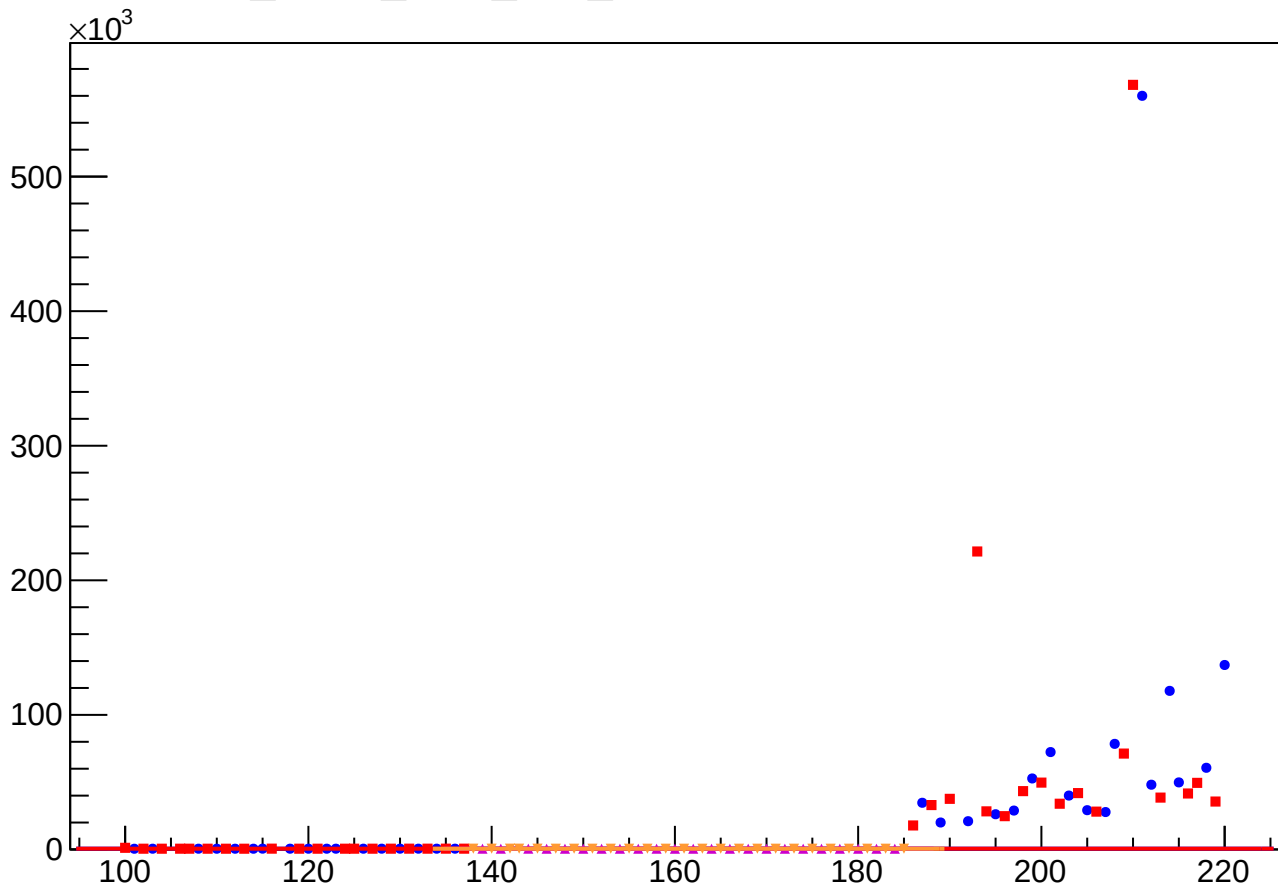
Right: 1178.959 $\pm$ 152.202 χ^2 /NDF: 51.0/66

In: 1178.418 $\pm$ 113.721 χ^2 /NDF:52.3/55

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

All: 1120.034 $\pm$ 79.301 χ^2 /NDF: 96.4/114

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.802 $\pm$ 0.155 χ^2 /NDF: 6532925.4/33

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

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

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

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

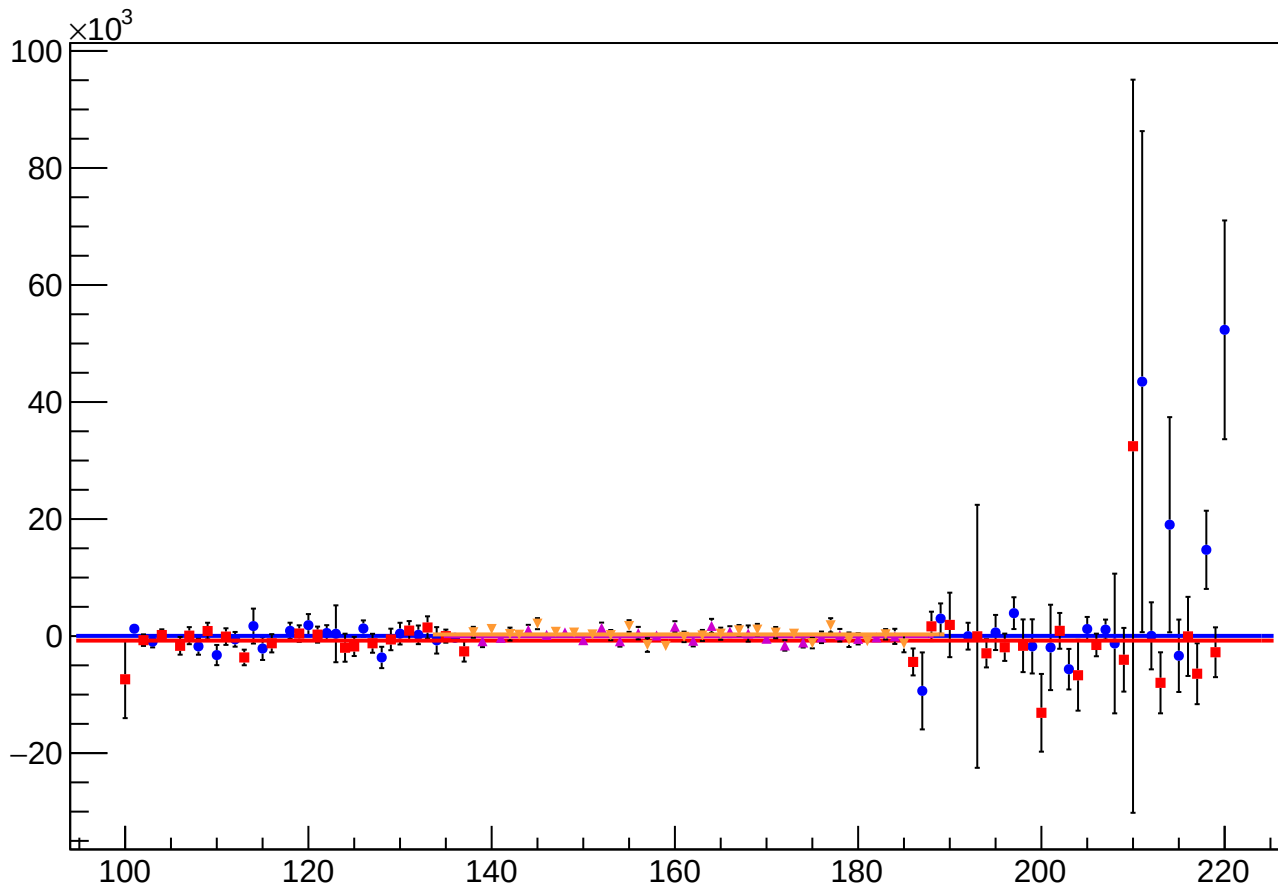
Right: 569.521 $\pm$ 0.108 χ^2 /NDF: 13057625.7/69

In: 560.172 $\pm$ 0.080 χ^2 /NDF: 6548409.7/56

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

All: 560.588 $\pm$ 0.056 χ^2 /NDF: 13093064.3/117

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 35.887+/-305.654 χ^2/NDF : 41.4/33

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

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

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

Left: 139.190+/-128.612 χ^2/NDF : 48.2/47

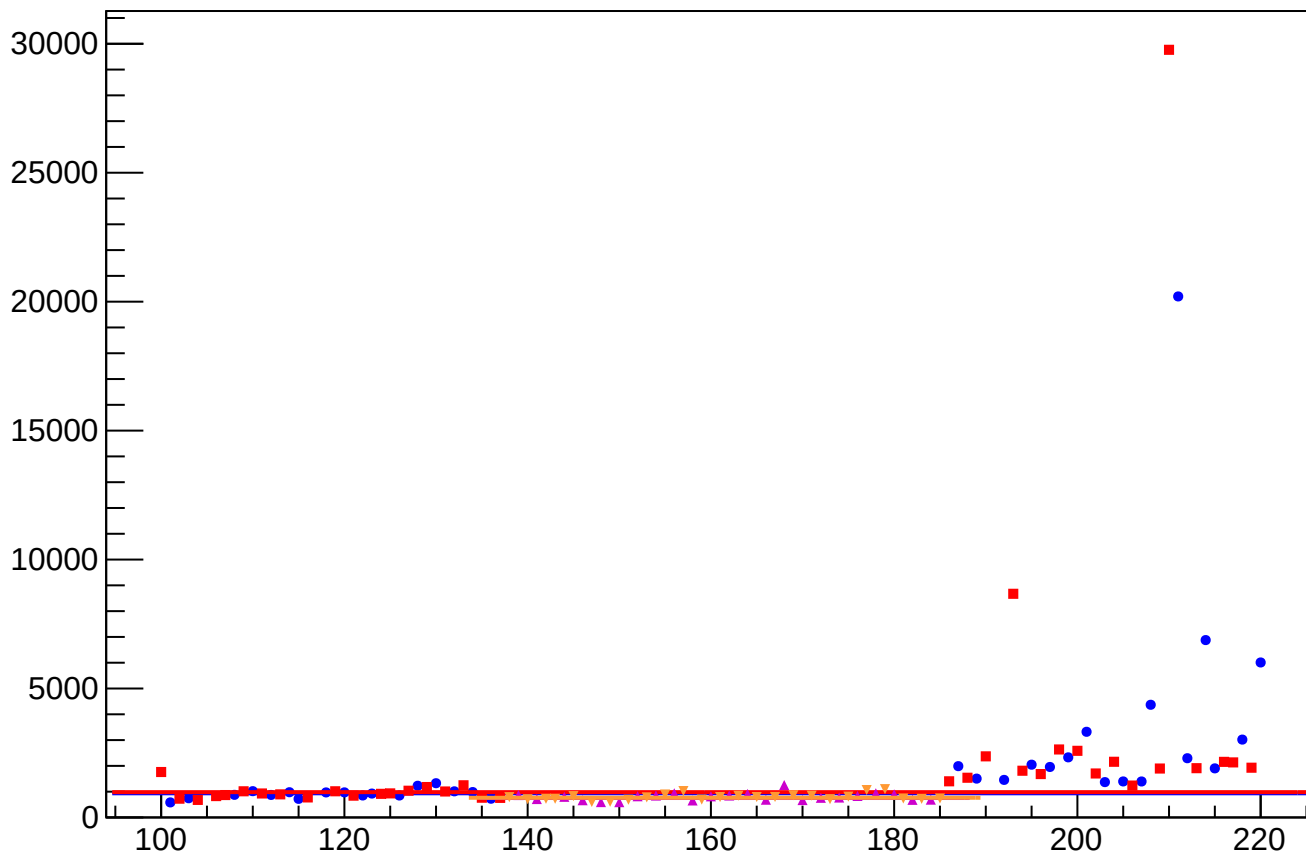
Right: -360.876+/-217.598 χ^2/NDF : 73.4/69

In: 3.461+/-157.251 χ^2/NDF : 61.5/56

Out: 15.882+/-155.916 χ^2/NDF : 63.9/60

All: 9.724+/-110.718 χ^2/NDF : 125.5/117

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 936.849+/-0.216 χ^2/NDF : 3619055.6/33

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

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

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

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

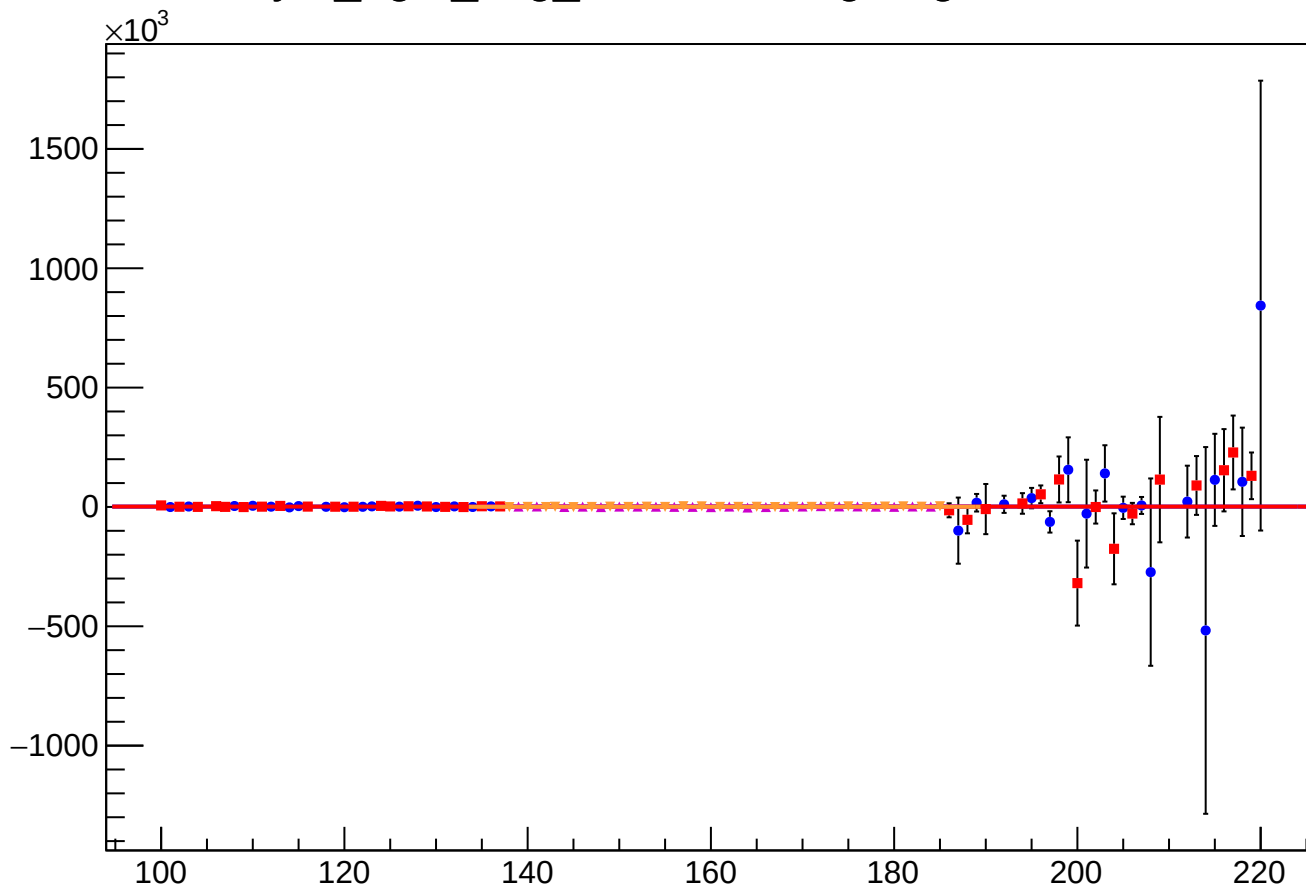
Right: 958.833+/-0.154 χ^2/NDF : 6654606.1/69

In: 802.470+/-0.111 χ^2/NDF : 5076615.9/56

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

All: 810.489+/-0.078 χ^2/NDF : 9596850.5/117

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.980 $\pm$ 402.533 χ^2 /NDF: 25.7/32

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

Right Out: 1491.362 $\pm$ 400.590 χ^2 /NDF: 27.1/33

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

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

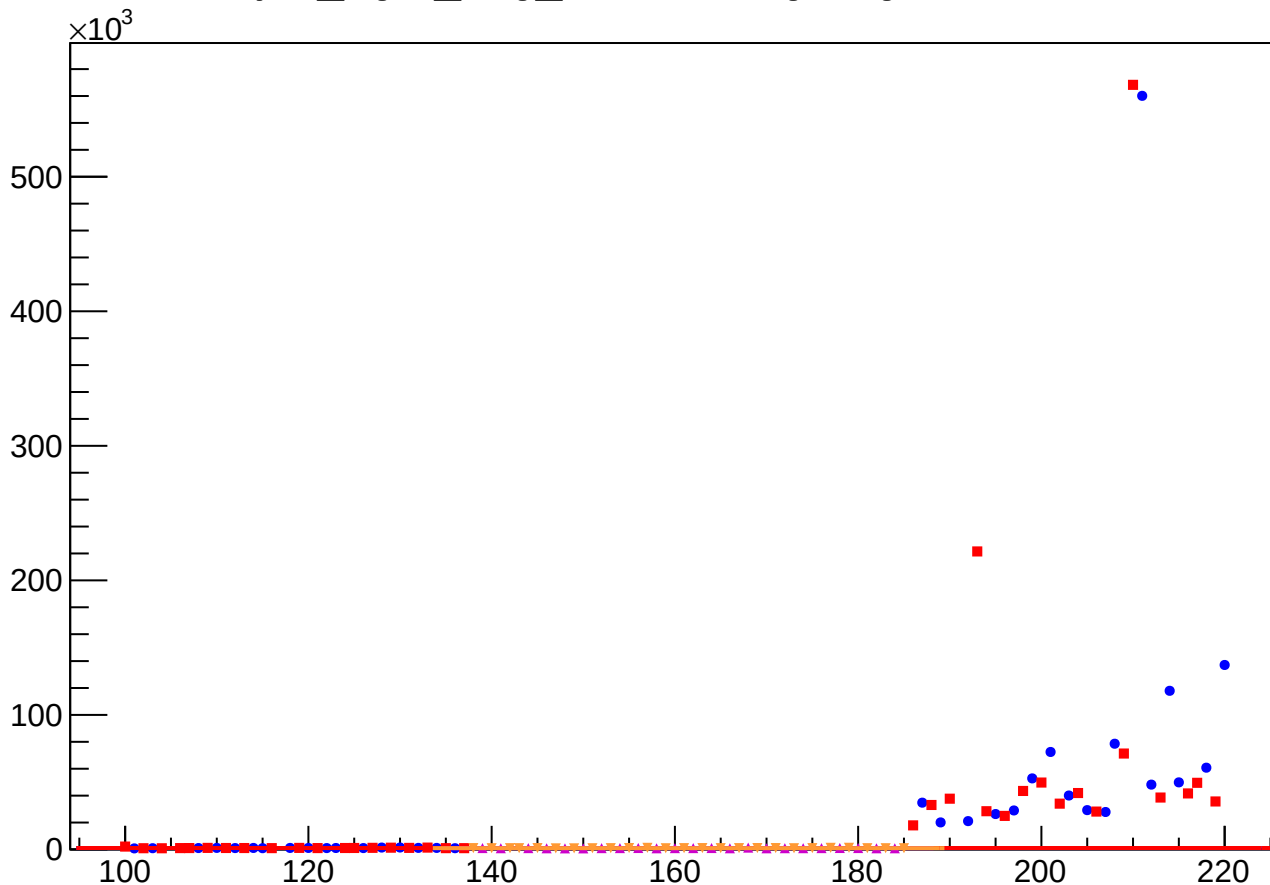
Right: 1496.645 $\pm$ 283.944 χ^2 /NDF: 52.8/66

In: 1217.512 $\pm$ 199.742 χ^2 /NDF: 51.7/55

Out: 920.569 $\pm$ 196.528 χ^2 /NDF: 51.3/58

All: 1066.632 $\pm$ 140.089 χ^2 /NDF: 104.2/114

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.570+/-0.285 χ^2/NDF : 6657929.8/33

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

Right Out: 1074.923+/-0.283 χ^2/NDF : 6501245.2/35

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

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

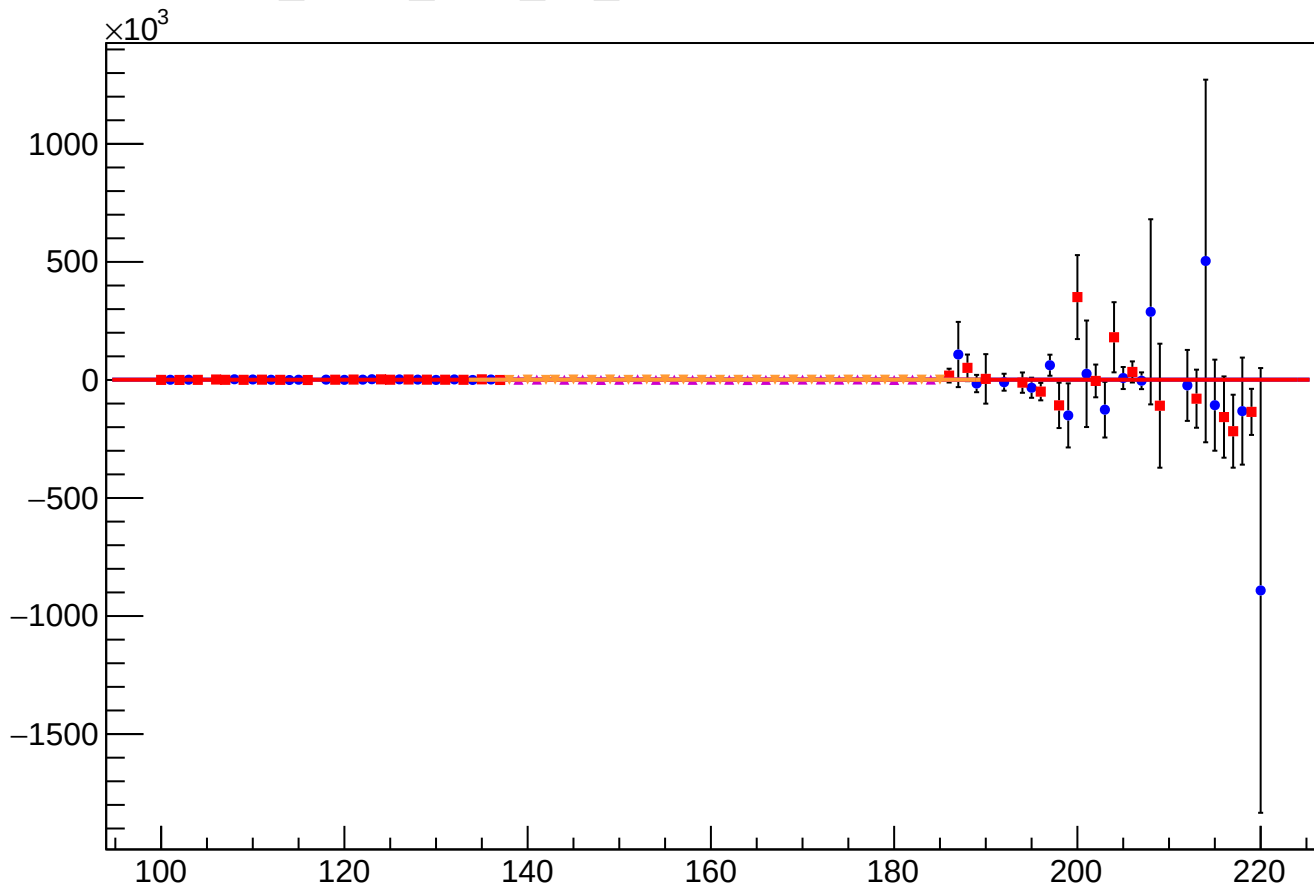
Right: 1057.332+/-0.201 χ^2/NDF : 13166925.9/69

In: 975.555+/-0.141 χ^2/NDF : 7168429.6/56

Out: 989.373+/-0.139 χ^2/NDF : 6984311.8/60

All: 982.576+/-0.099 χ^2/NDF : 14157605.0/131

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.165 $\pm$ 218.833 χ^2/NDF : 20.4/32

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

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

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

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

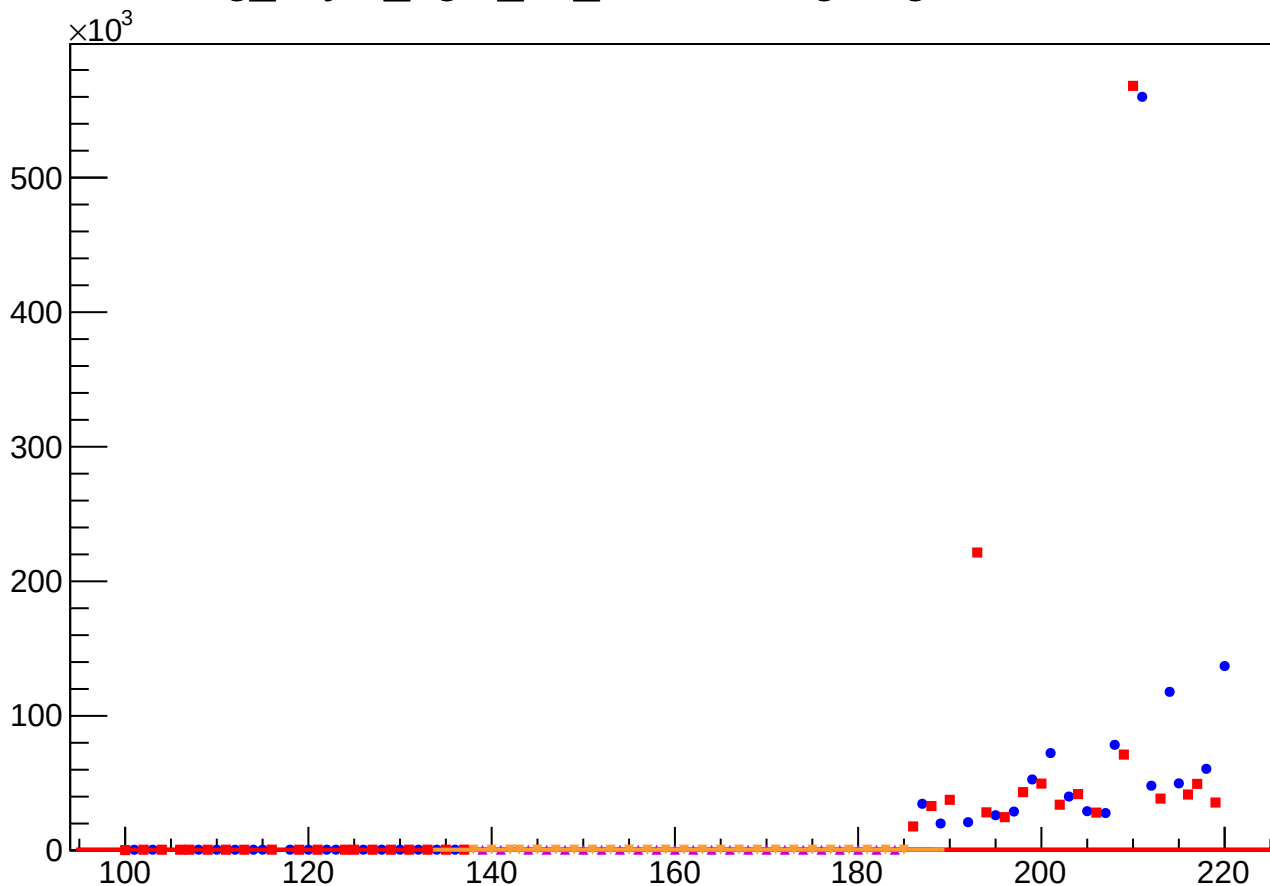
Right: 1145.286 $\pm$ 150.989 χ^2/NDF : 49.9/66

In: 1231.350 $\pm$ 113.850 χ^2/NDF : 52.9/55

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

All: 1139.426 $\pm$ 79.189 χ^2/NDF : 97.3/114

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.466 $\pm$ 0.155 χ^2 /NDF: 6533098.5/33

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

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

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

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

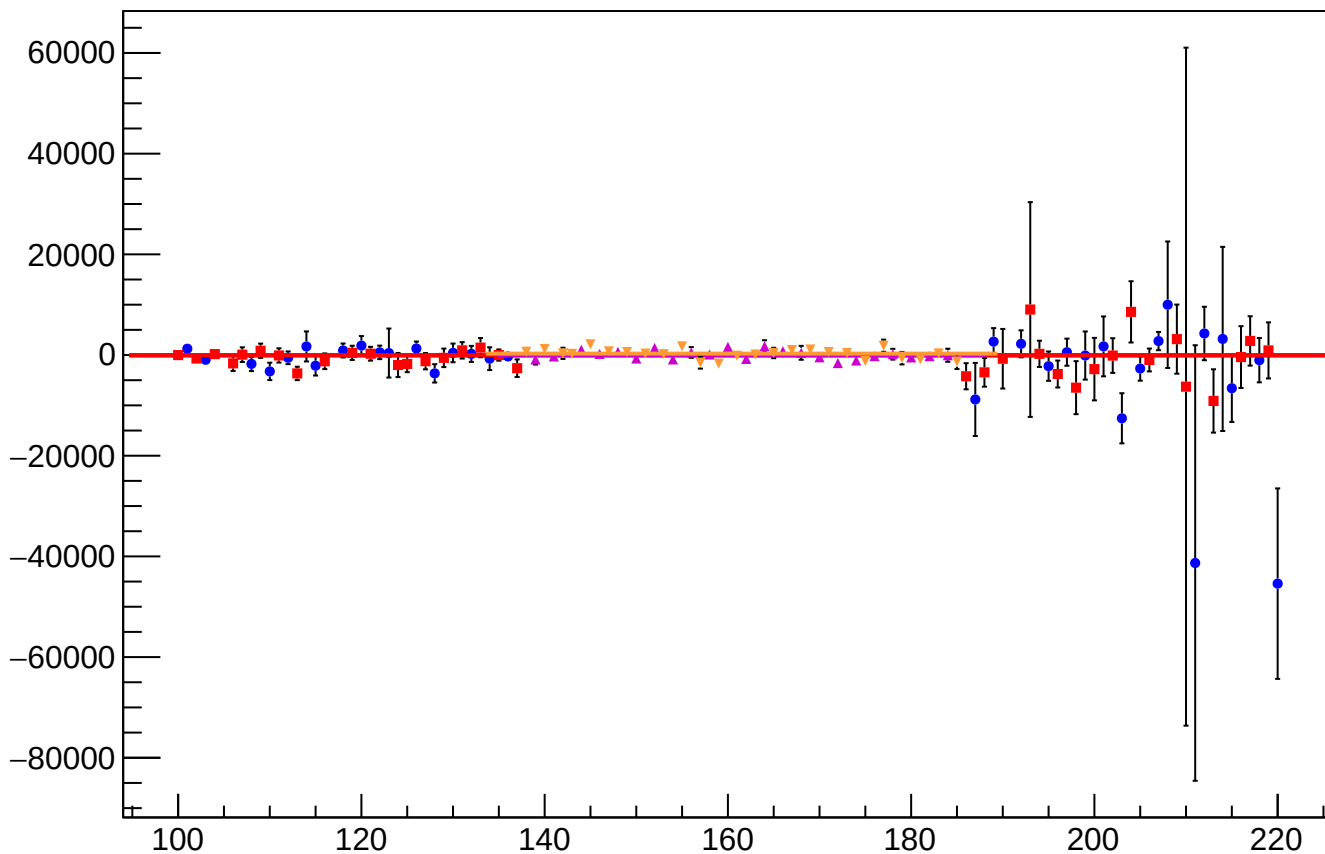
Right: 564.075 $\pm$ 0.107 χ^2 /NDF: 13148224.2/69

In: 560.809 $\pm$ 0.081 χ^2 /NDF: 6548666.3/56

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

All: 559.566 $\pm$ 0.056 χ^2 /NDF: 13176761.7/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -78.506+/-308.096 χ^2/NDF : 39.8/33

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

Right Out: -22.845+/-38.922 χ^2/NDF : 28.7/35

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

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

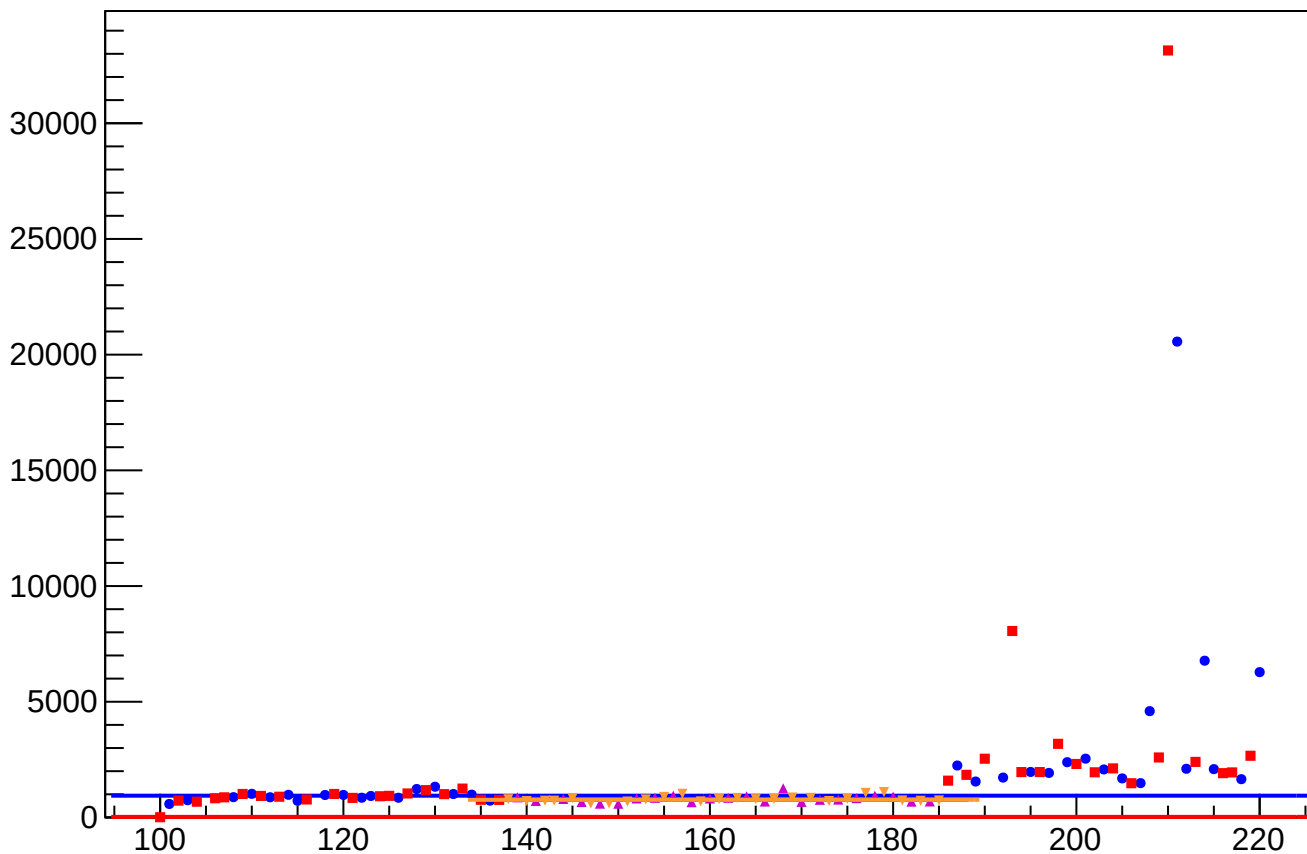
Right: -23.720+/-38.616 χ^2/NDF : 68.5/69

In: -25.946+/-157.639 χ^2/NDF : 60.0/56

Out: -9.323+/-38.048 χ^2/NDF : 58.2/60

All: -10.238+/-36.986 χ^2/NDF : 118.2/117

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 940.615 $\pm$ 0.218 χ^2 /NDF: 3682622.6/33

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

Right Out: 24.979 $\pm$ 0.028 χ^2 /NDF: 22545671.3/35

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

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

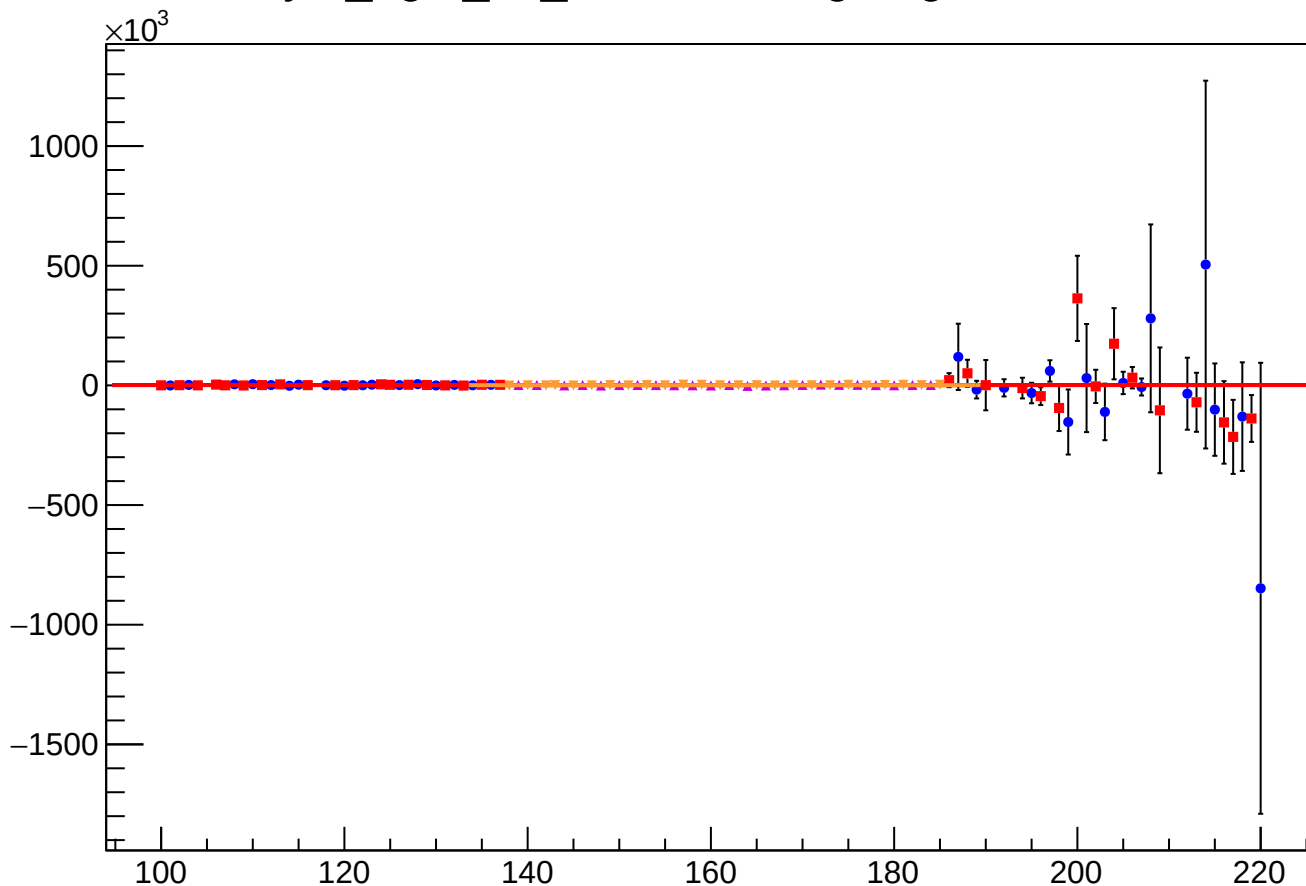
Right: 39.364 $\pm$ 0.027 χ^2 /NDF: 43615632.4/69

In: 803.211 $\pm$ 0.111 χ^2 /NDF: 5153034.5/56

Out: 57.793 $\pm$ 0.027 χ^2 /NDF: 55283573.9/60

All: 98.827 $\pm$ 0.026 χ^2 /NDF: 102695260.7/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.686 $\pm$ 402.756 χ^2/NDF : 26.0/32

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

Right Out: 1285.716 $\pm$ 376.573 χ^2/NDF : 27.5/33

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

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

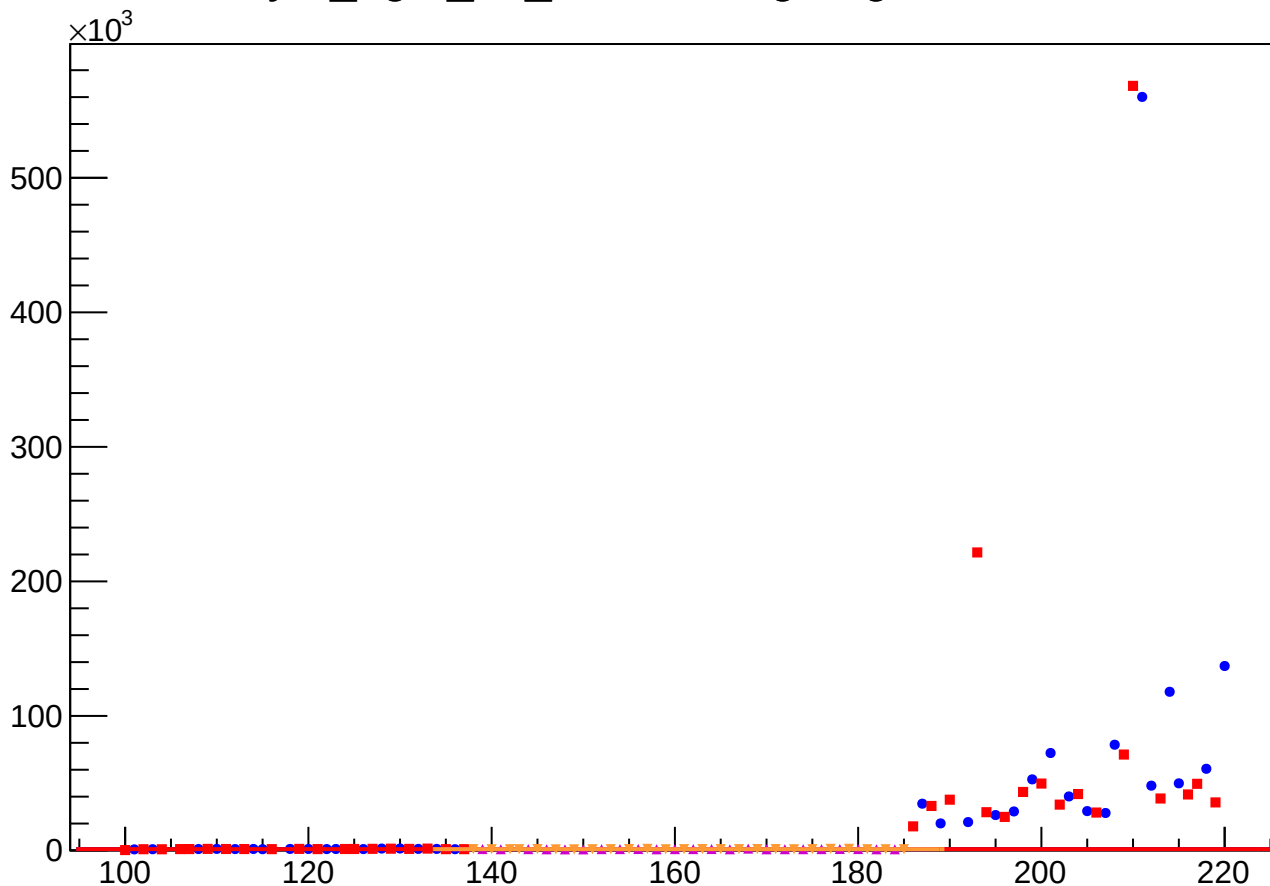
Right: 1392.517 $\pm$ 275.068 χ^2/NDF : 53.6/66

In: 1259.631 $\pm$ 199.877 χ^2/NDF : 50.7/55

Out: 886.264 $\pm$ 193.565 χ^2/NDF : 49.3/58

All: 1066.959 $\pm$ 139.049 χ^2/NDF : 101.8/114

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.153+/-0.285 χ^2/NDF : 6658513.6/33

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

Right Out: 979.238+/-0.266 χ^2/NDF : 7377932.1/35

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

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

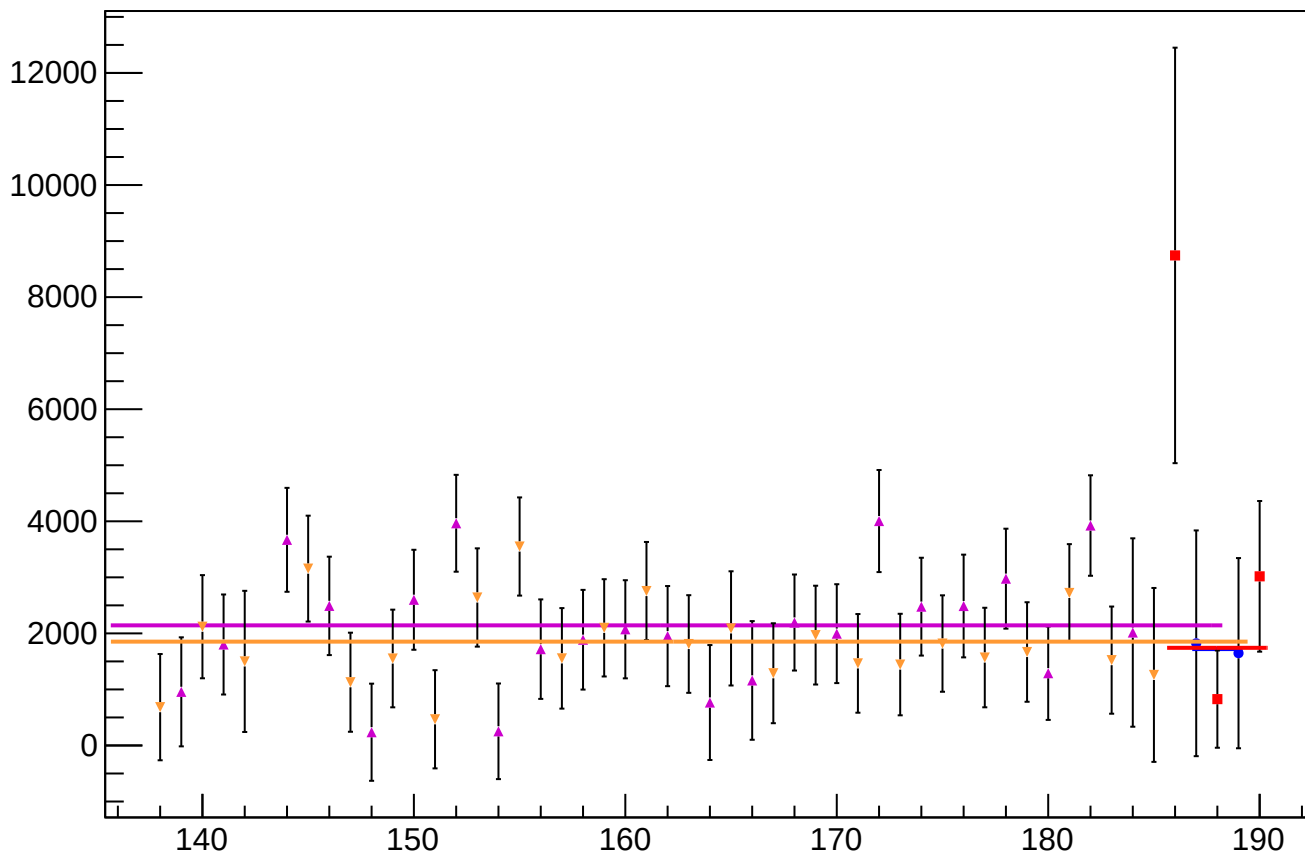
Right: 1007.651+/-0.195 χ^2/NDF : 14060857.1/69

In: 976.221+/-0.141 χ^2/NDF : 7168444.4/56

Out: 967.126+/-0.137 χ^2/NDF : 7743581.9/60

All: 971.528+/-0.098 χ^2/NDF : 14914163.5/117

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

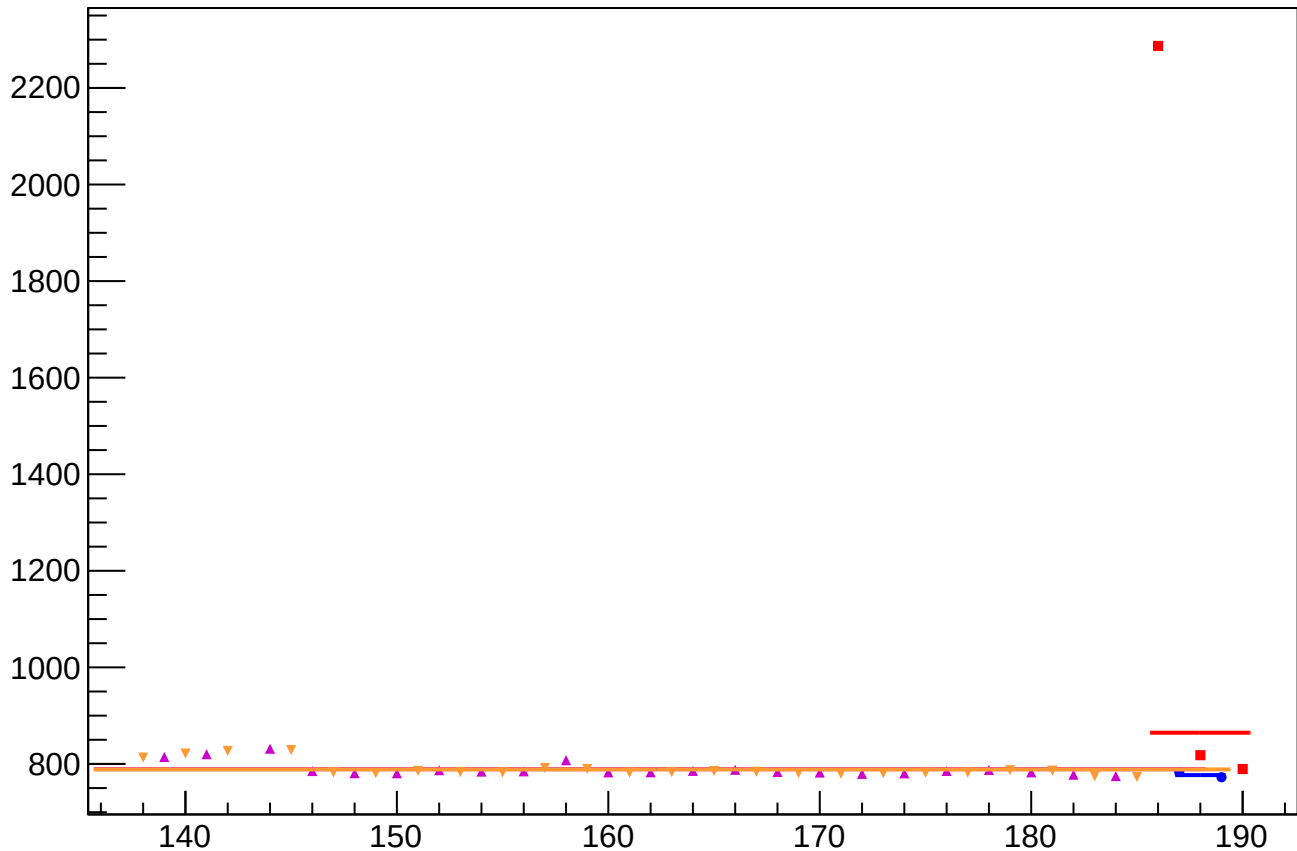
Right: 1737.192 $\pm$ 626.421 χ^2/NDF : 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

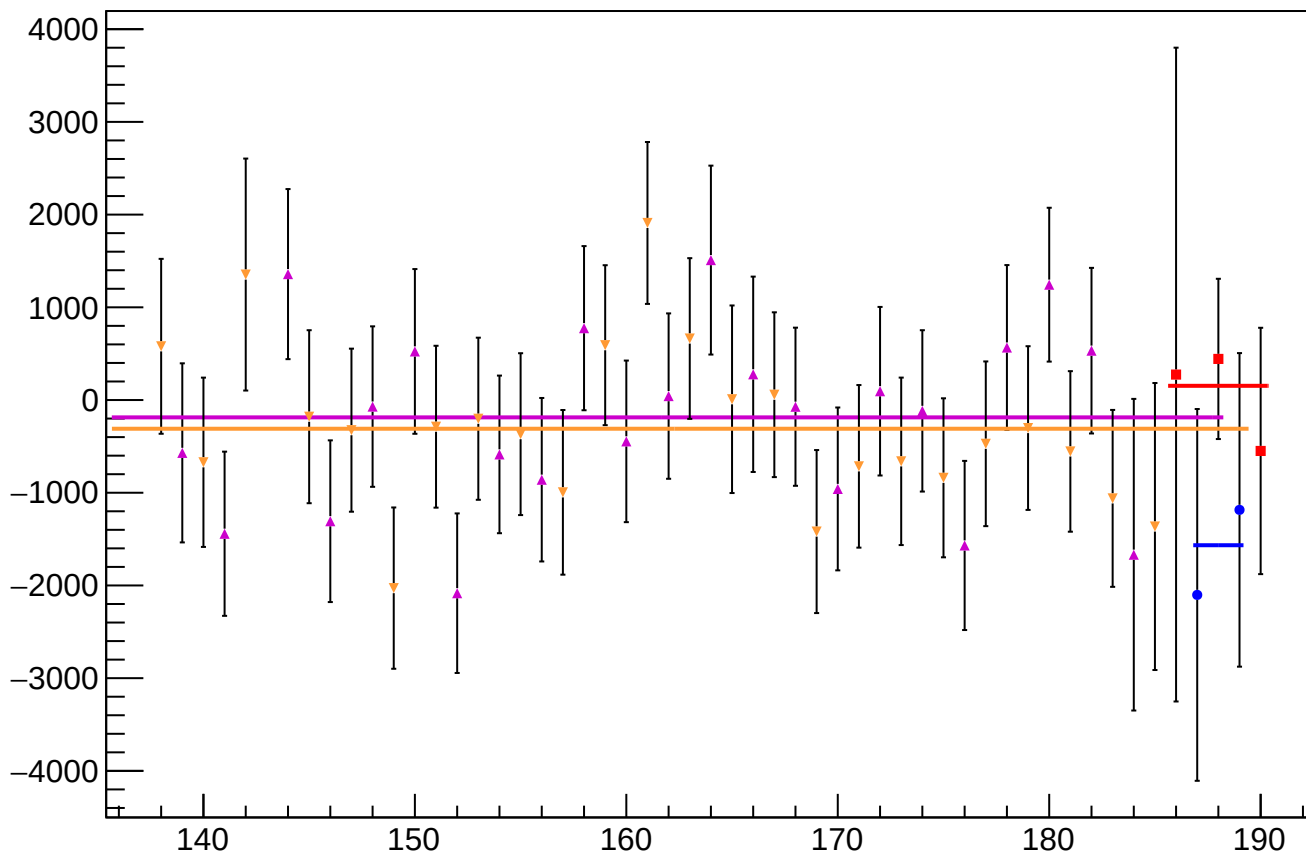
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

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

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

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

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

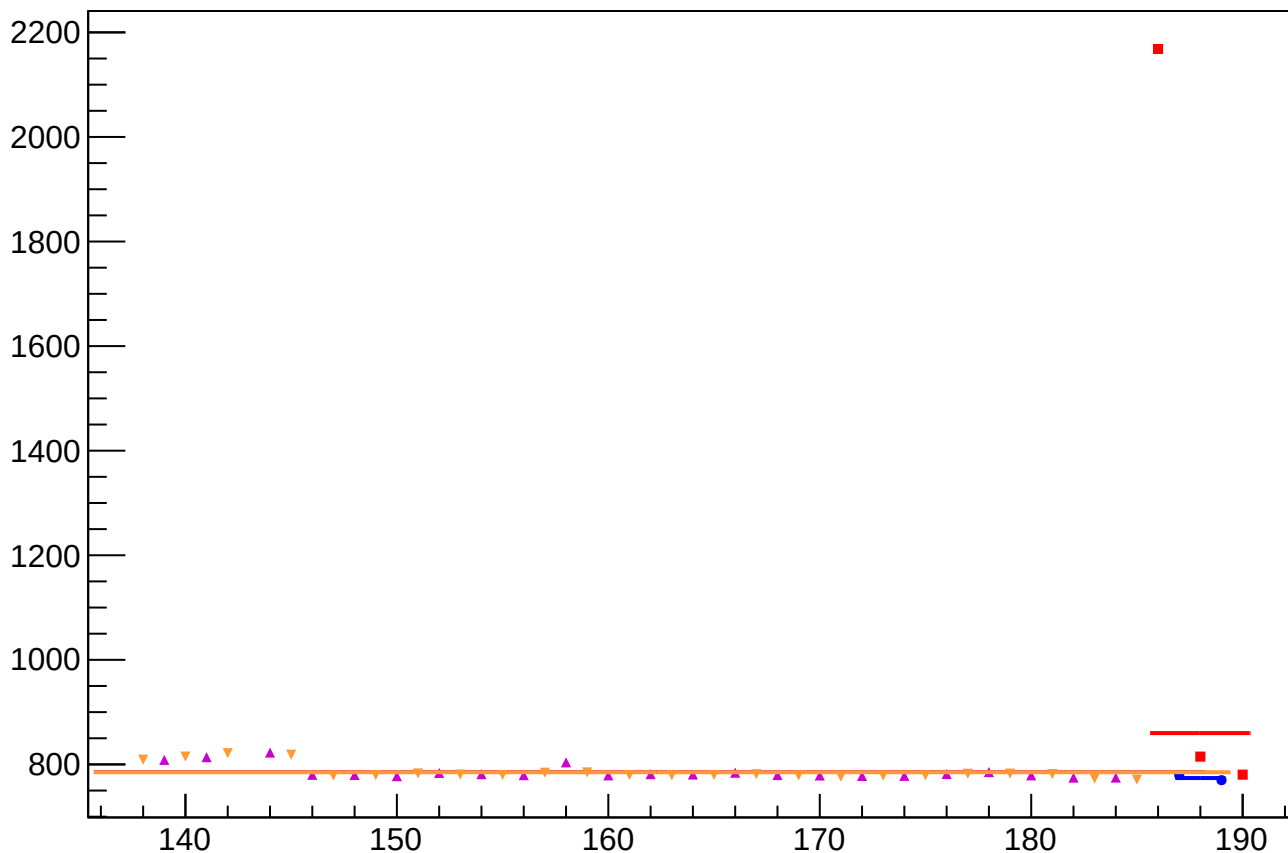
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

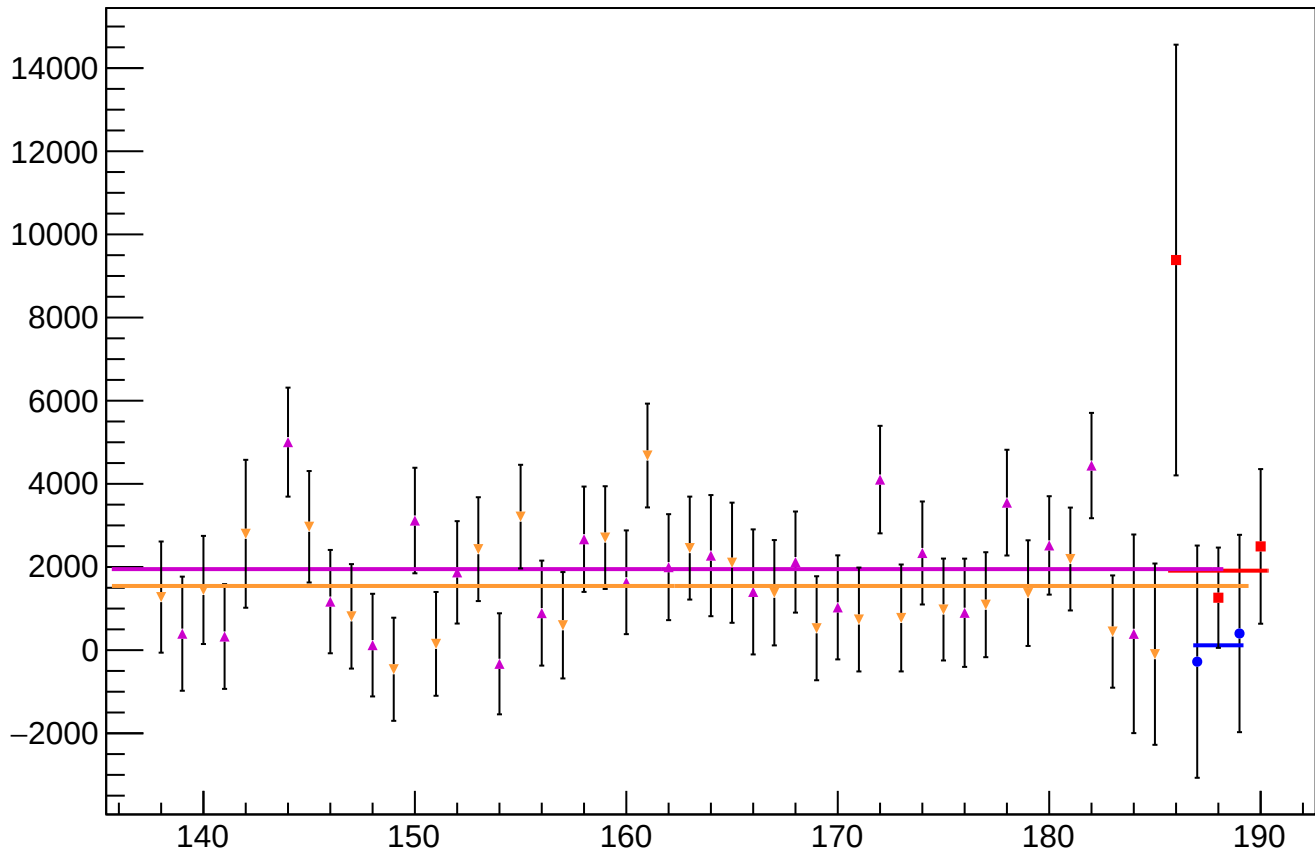
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

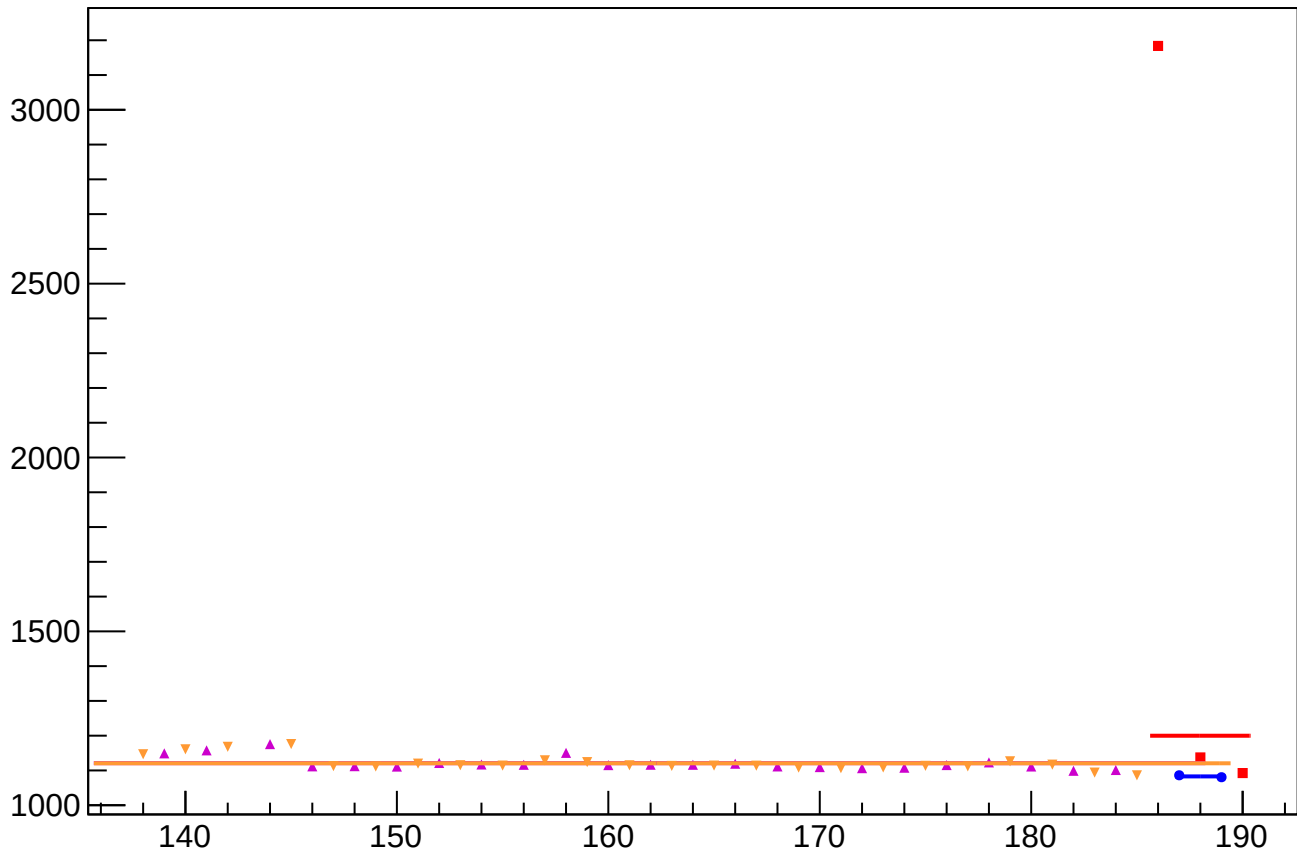
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



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

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

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

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

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

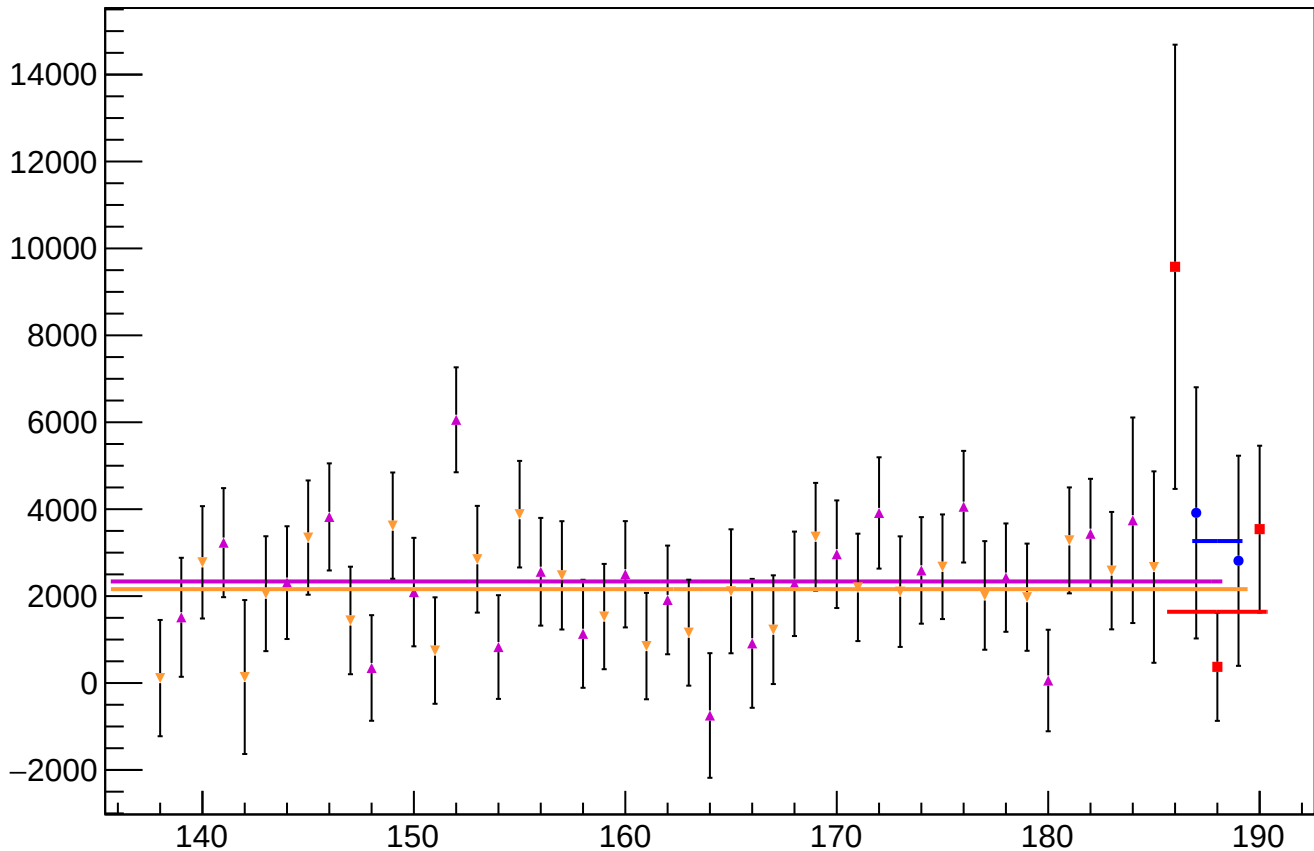
Right: 1172.741 +/- 0.616 χ^2/NDF : 311788.3/4

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

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

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

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

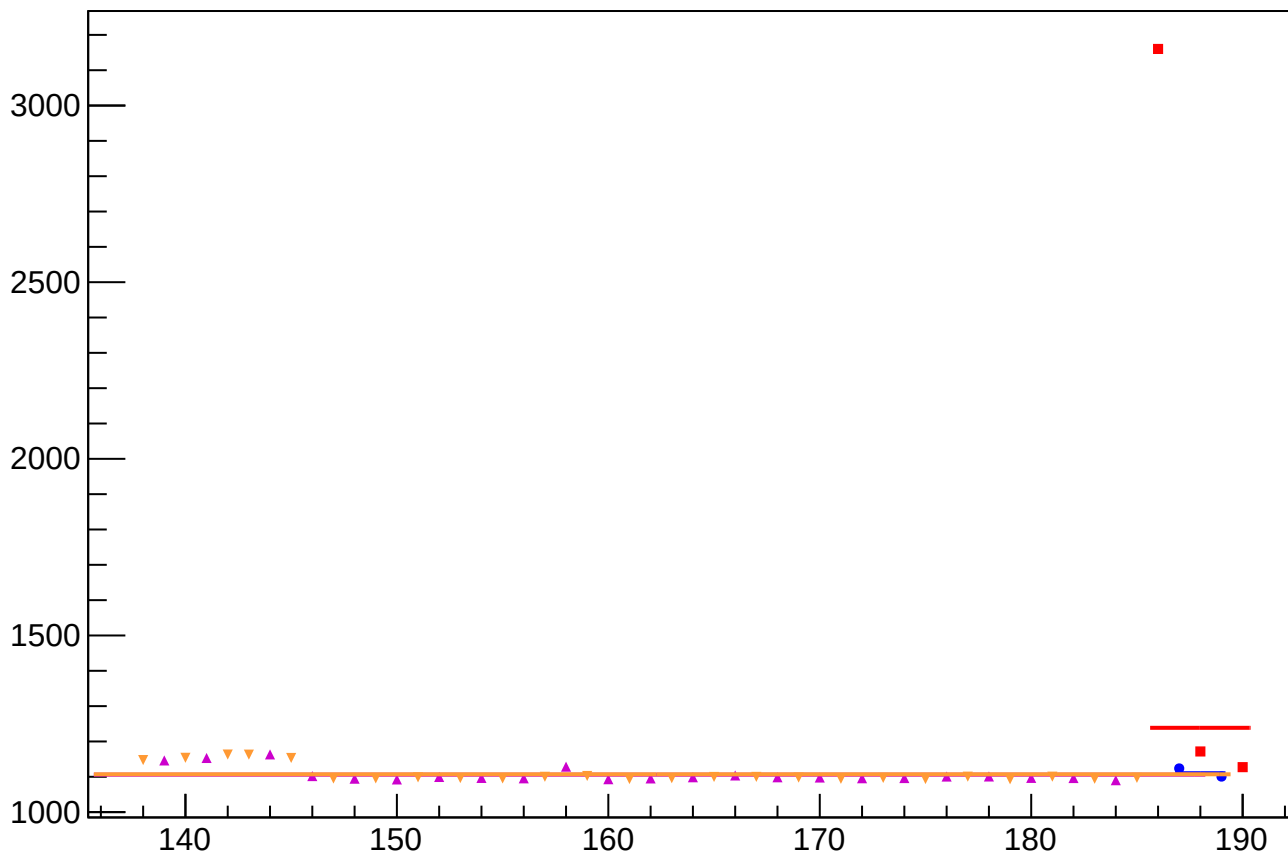
Right: 2018.696 $\pm$ 895.144 χ^2/NDF : 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109+/-1.311 χ^2/NDF : 75.3/1

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

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

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

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

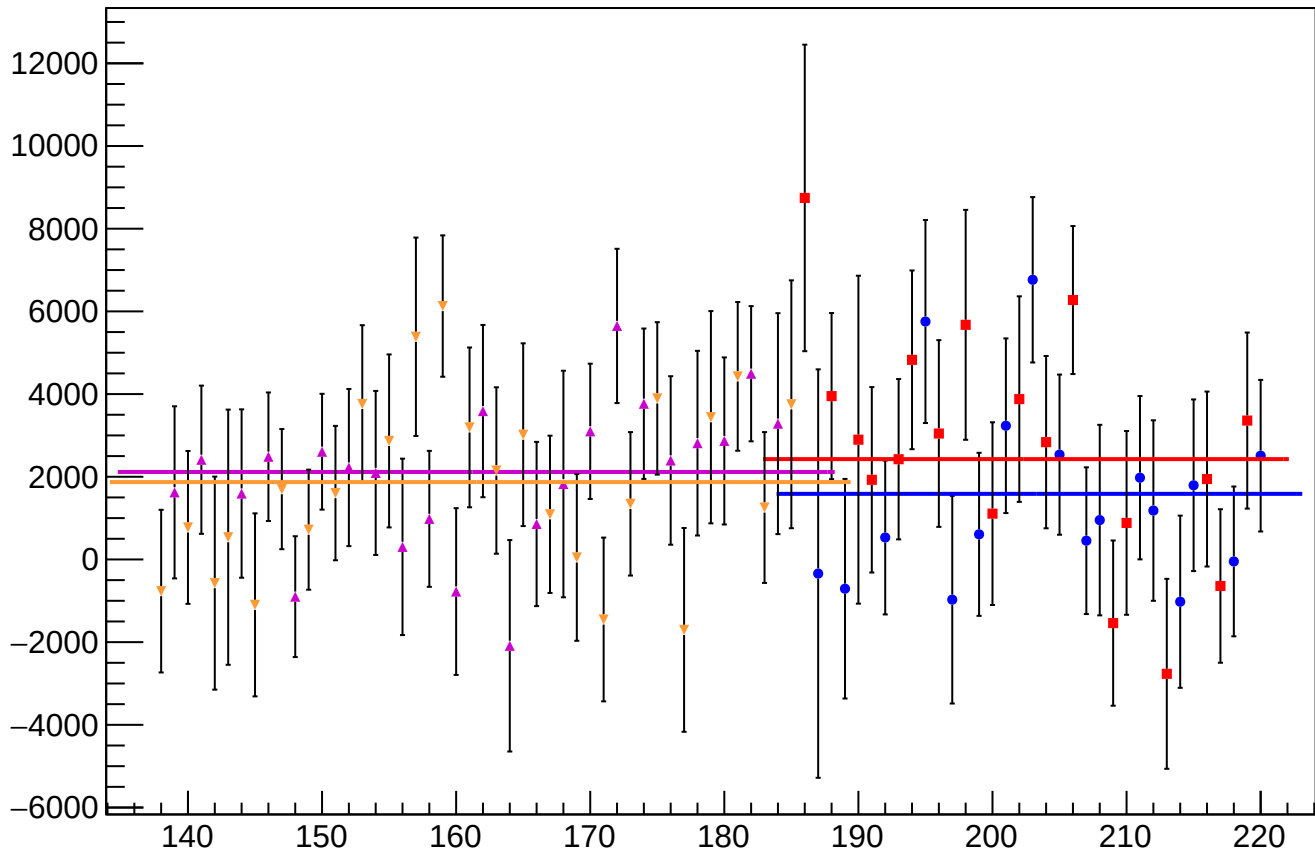
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1586.847 $\pm$ 510.938 χ^2 /NDF: 16.1/16

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

Right Out: 2426.995 $\pm$ 521.708 χ^2 /NDF: 24.1/17

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

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

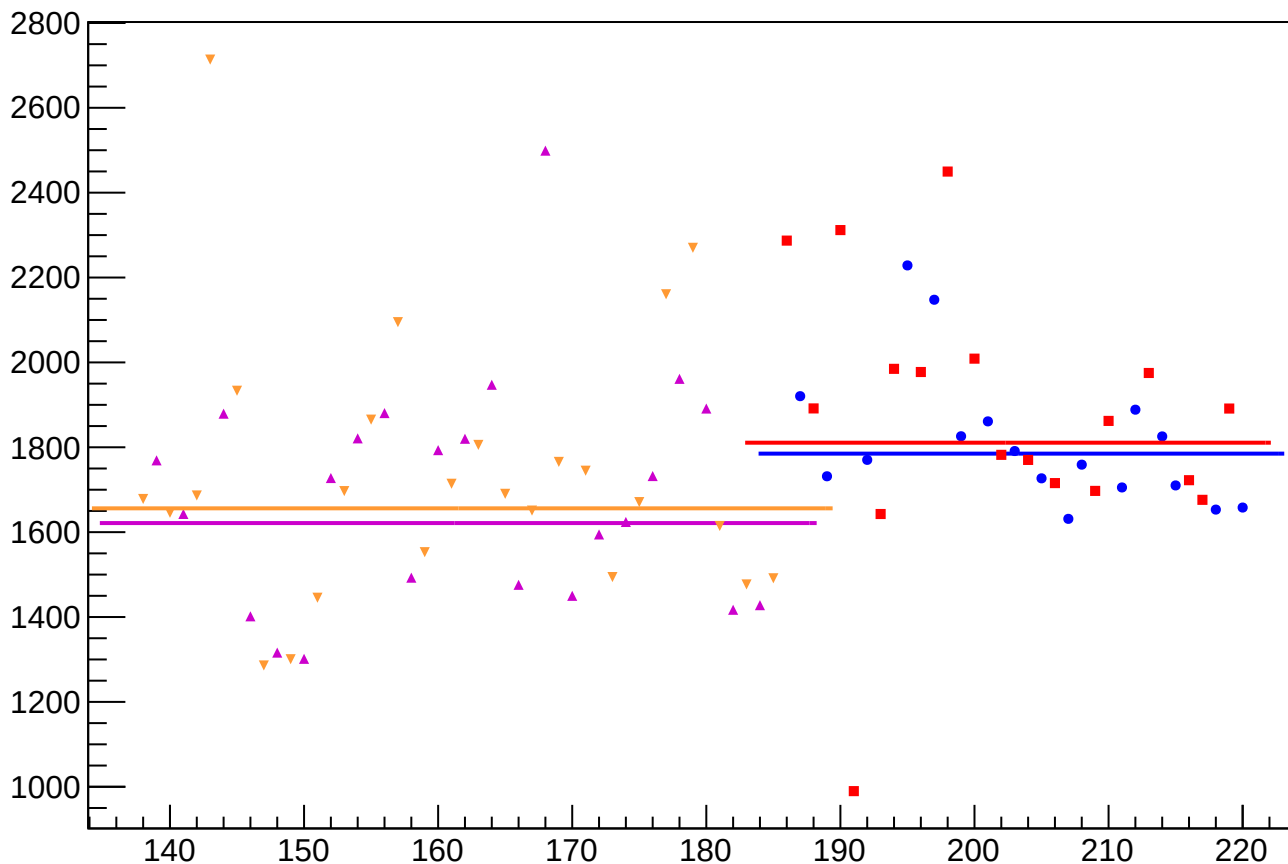
Right: 1998.160 $\pm$ 365.036 χ^2 /NDF: 41.5/34

In: 1919.381 $\pm$ 311.508 χ^2 /NDF:35.6/39

Out: 2071.830 $\pm$ 313.231 χ^2 /NDF:50.9/42

All: 1995.185 $\pm$ 220.876 χ^2 /NDF: 86.6/82

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1785.036 $\pm$ 0.361 χ^2 /NDF: 161243.9/16

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

Right Out: 1810.812 $\pm$ 0.369 χ^2 /NDF: 538153.9/17

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

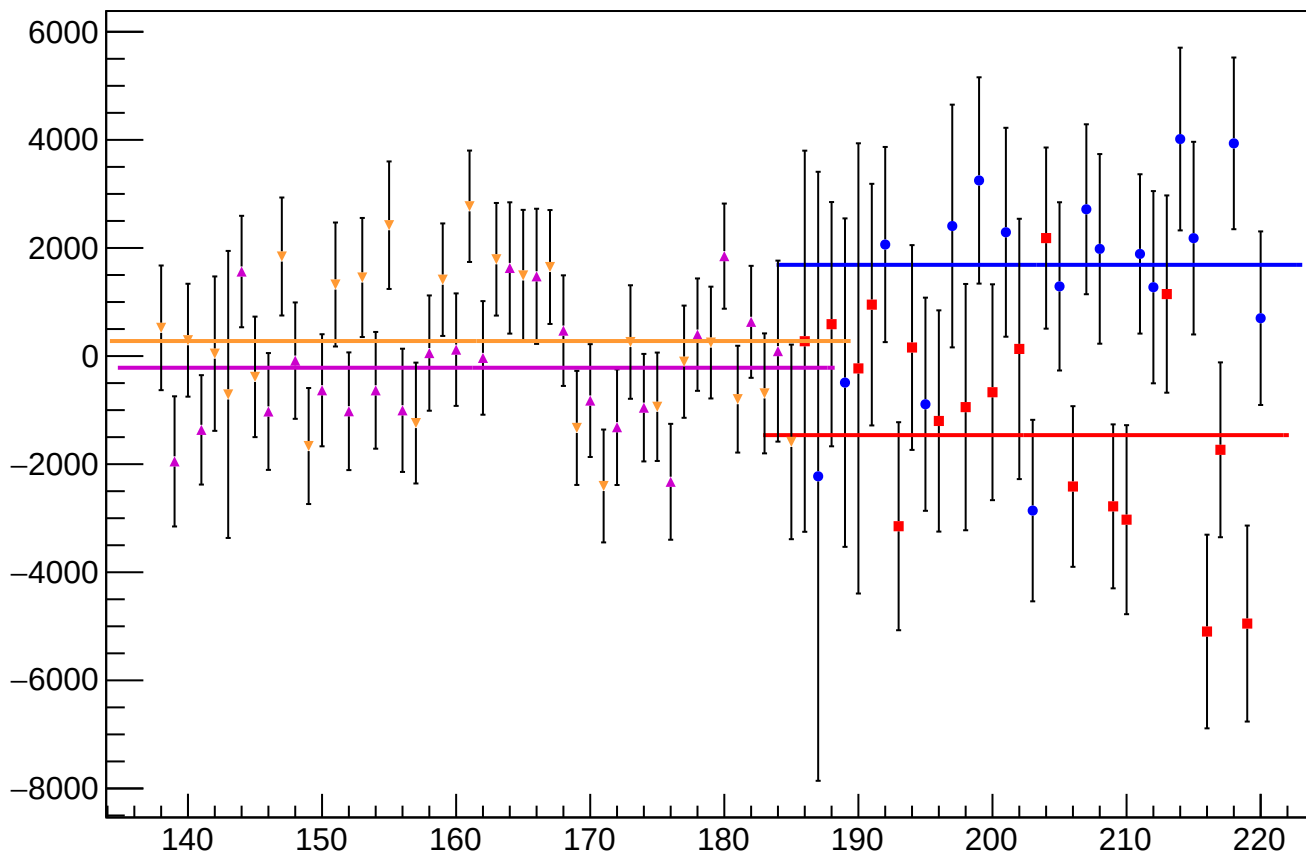
Right: 1797.655 $\pm$ 0.258 χ^2 /NDF: 701890.0/34

In: 1682.235 $\pm$ 0.220 χ^2 /NDF: 1065415.2/39

Out: 1711.882 $\pm$ 0.221 χ^2 /NDF: 1561181.5/42

All: 1696.977 $\pm$ 0.156 χ^2 /NDF: 2635604.4/82

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1688.054 $\pm$ 439.946 χ^2/NDF : 15.9/16

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

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

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

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

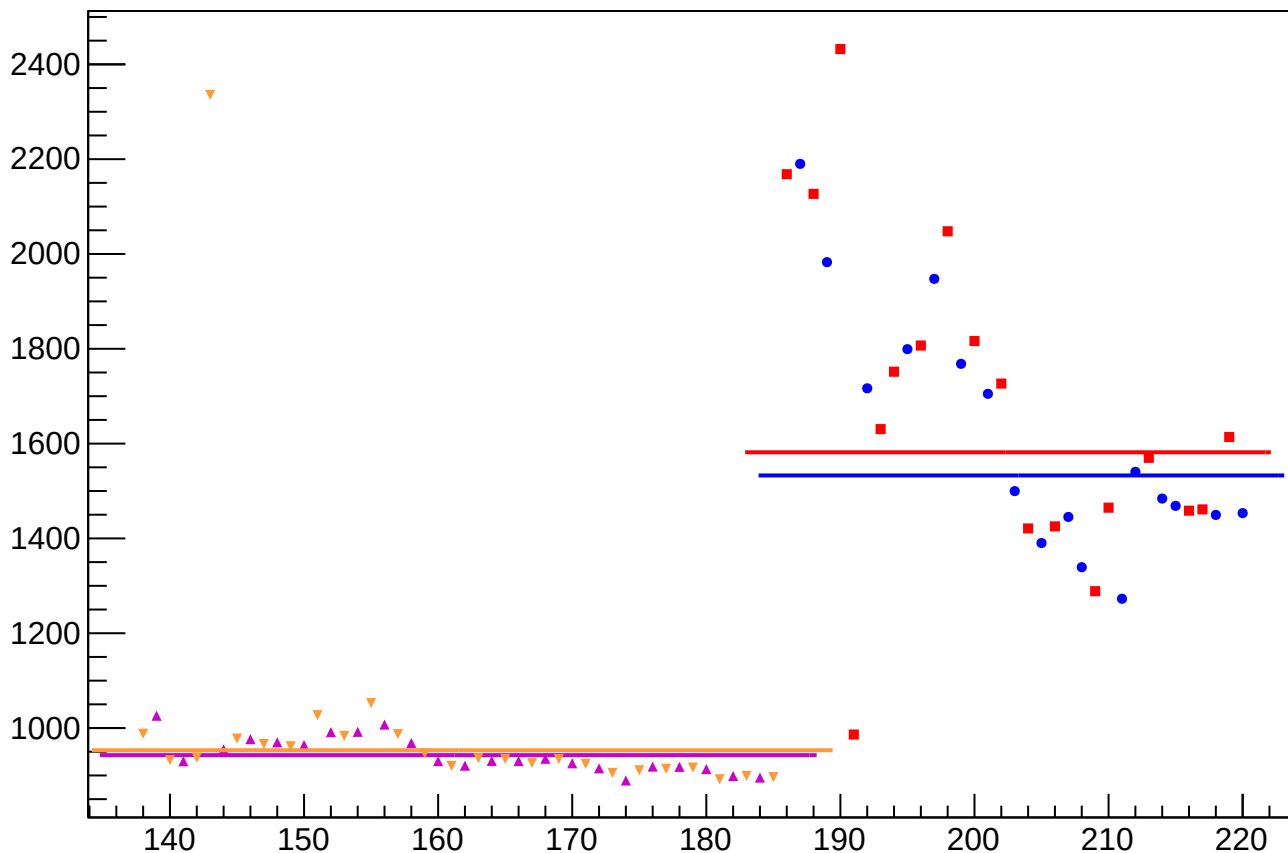
Right: 169.665 $\pm$ 316.666 χ^2/NDF : 61.7/34

In: 180.340 $\pm$ 200.745 χ^2/NDF : 55.2/39

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

All: 60.628 $\pm$ 141.955 χ^2/NDF : 127.1/82

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1532.855+/-0.311 χ^2/NDF : 367853.6/16

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

Right Out: 1581.716+/-0.323 χ^2/NDF : 702583.6/17

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

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

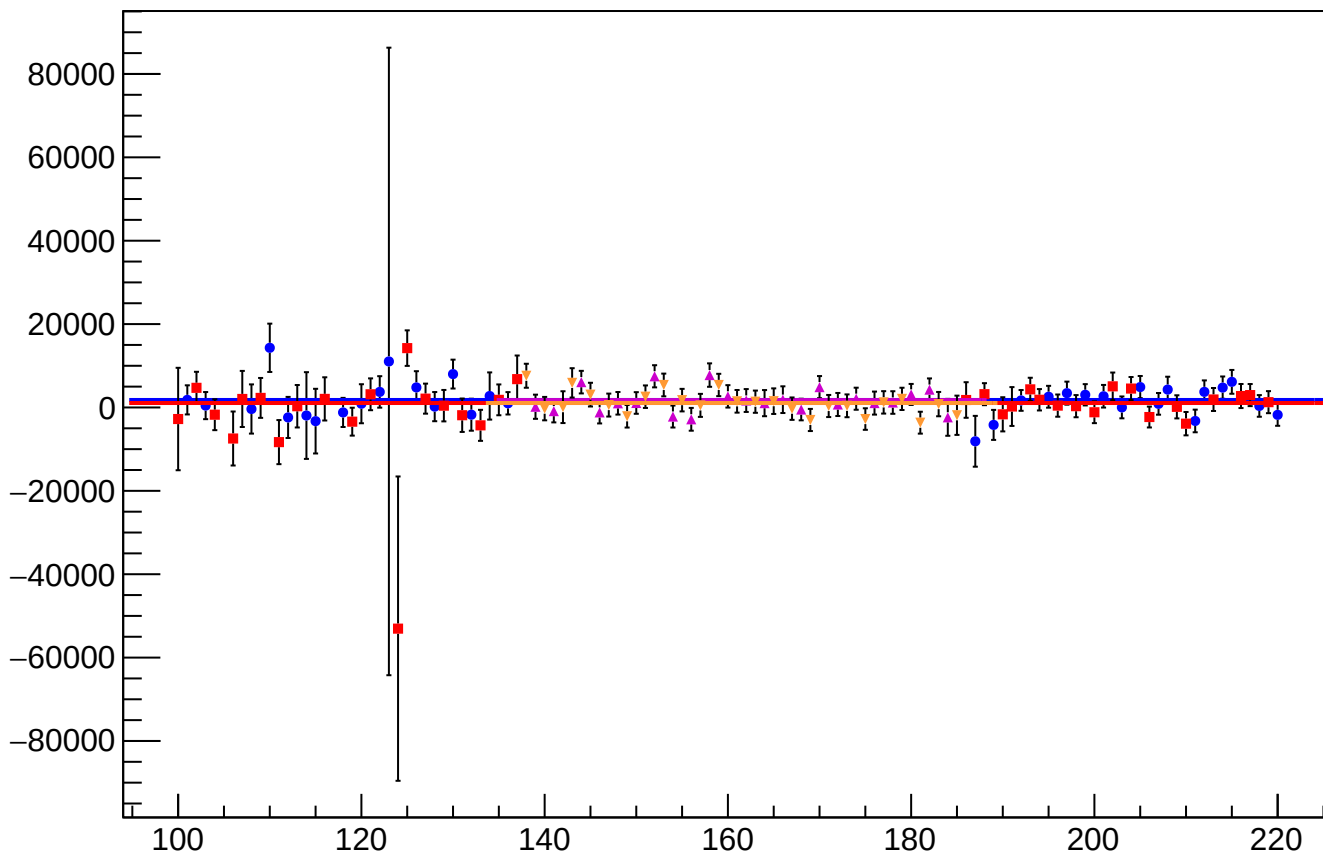
Right: 1556.401+/-0.224 χ^2/NDF : 1082325.5/34

In: 1065.753+/-0.142 χ^2/NDF : 3263616.2/39

Out: 1074.960+/-0.142 χ^2/NDF : 4370056.0/42

All: 1070.356+/-0.100 χ^2/NDF : 7635775.3/82

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1797.346 $\pm$ 562.214 χ^2 /NDF: 30.7/33

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

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

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

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

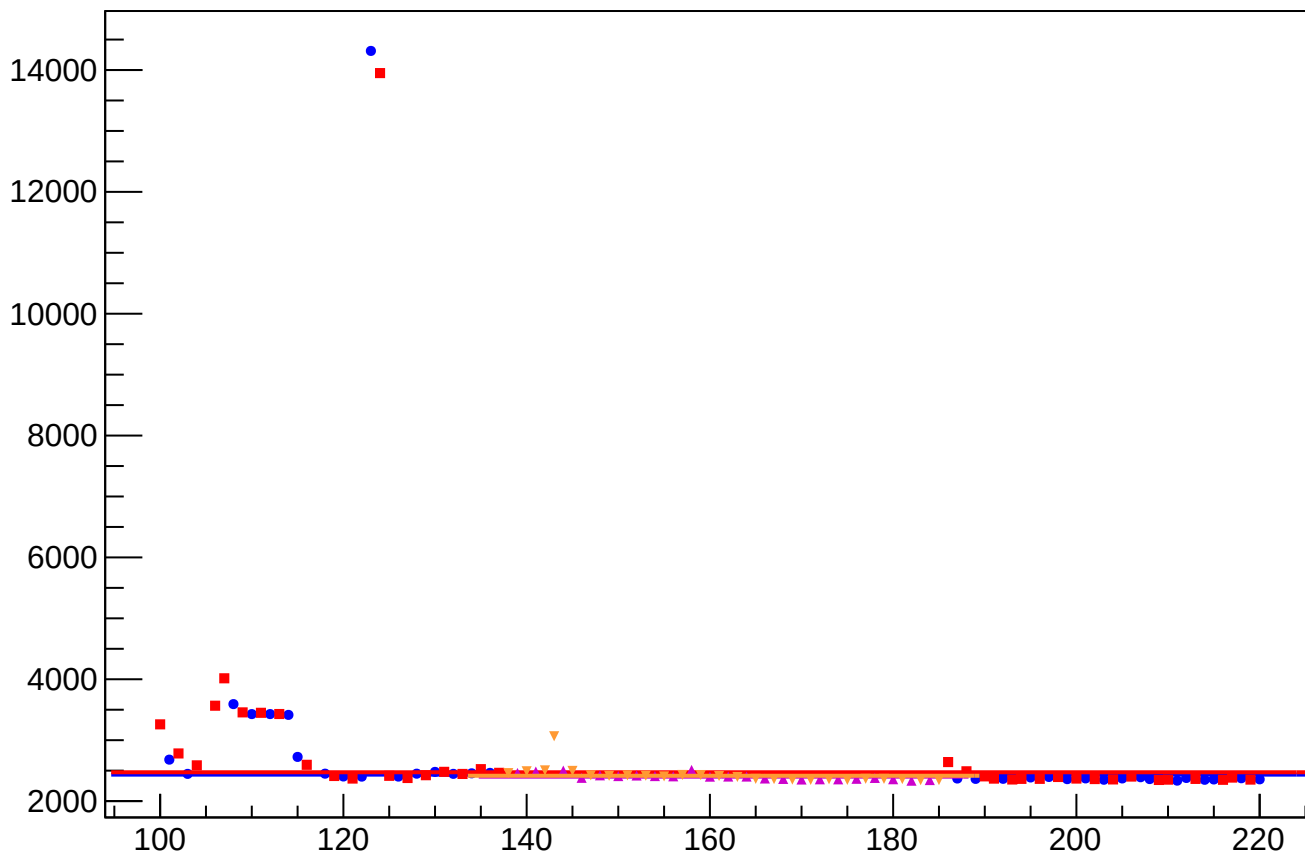
Right: 1434.048 $\pm$ 398.337 χ^2 /NDF: 68.3/70

In: 1787.466 $\pm$ 402.295 χ^2 /NDF:54.8/56

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

All: 1427.247 $\pm$ 283.283 χ^2 /NDF: 116.7/118

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2434.657 $\pm$ 0.398 χ^2 /NDF: 319283.8/33

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

Right Out: 2473.368 $\pm$ 0.399 χ^2 /NDF: 660086.1/36

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

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

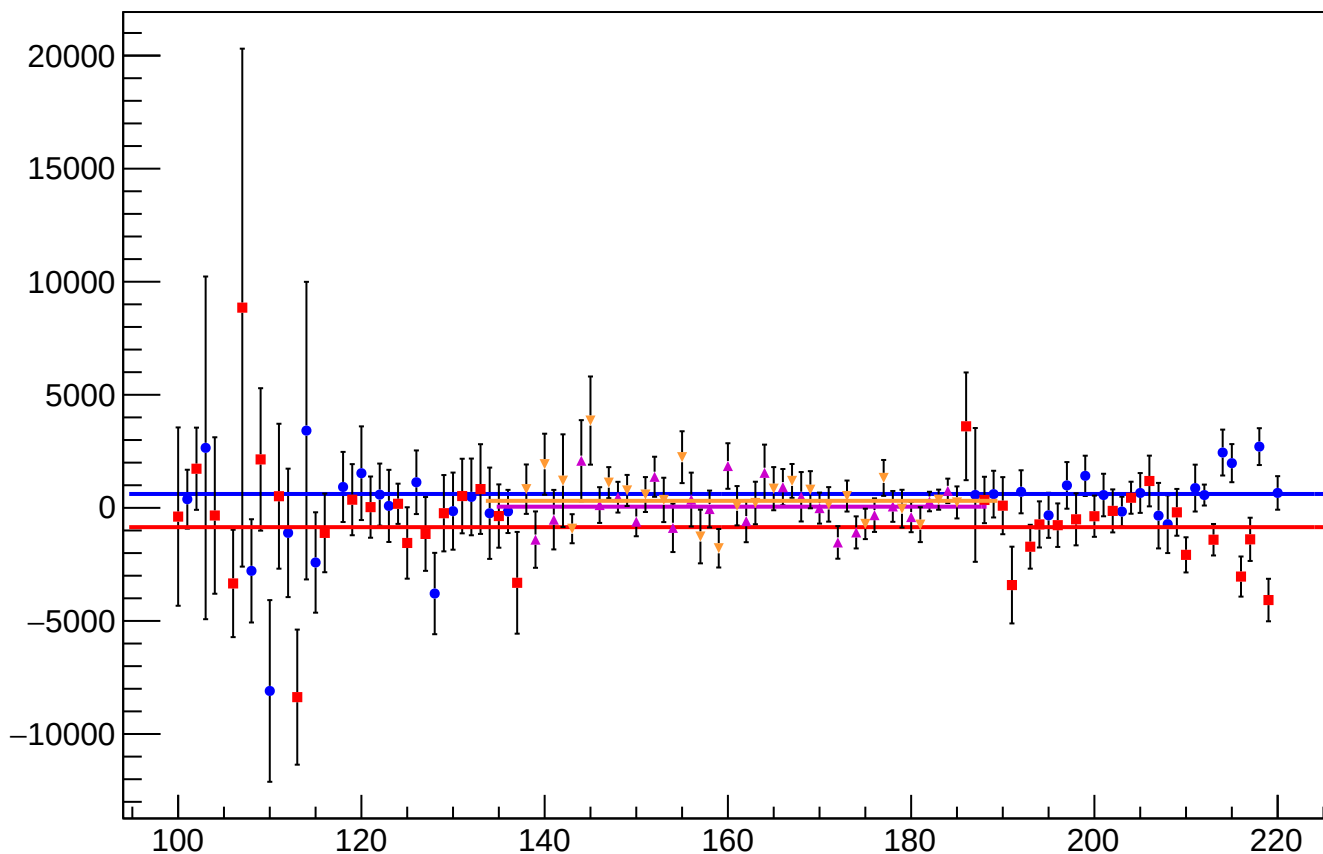
Right: 2453.935 $\pm$ 0.282 χ^2 /NDF: 984091.9/70

In: 2418.439 $\pm$ 0.284 χ^2 /NDF: 336442.0/56

Out: 2444.670 $\pm$ 0.282 χ^2 /NDF: 753052.8/61

All: 2431.663 $\pm$ 0.200 χ^2 /NDF: 1093781.8/111

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 614.165 ± 188.589 χ^2/NDF : 34.3/33

Left Out: 310.873 ± 160.650 χ^2/NDF : 29.7/24

Right Out: -852.934 ± 199.353 χ^2/NDF : 54.6/36

Left In: 51.454 ± 161.744 χ^2/NDF : 23.8/22

Left: 182.044 ± 113.982 χ^2/NDF : 54.9/47

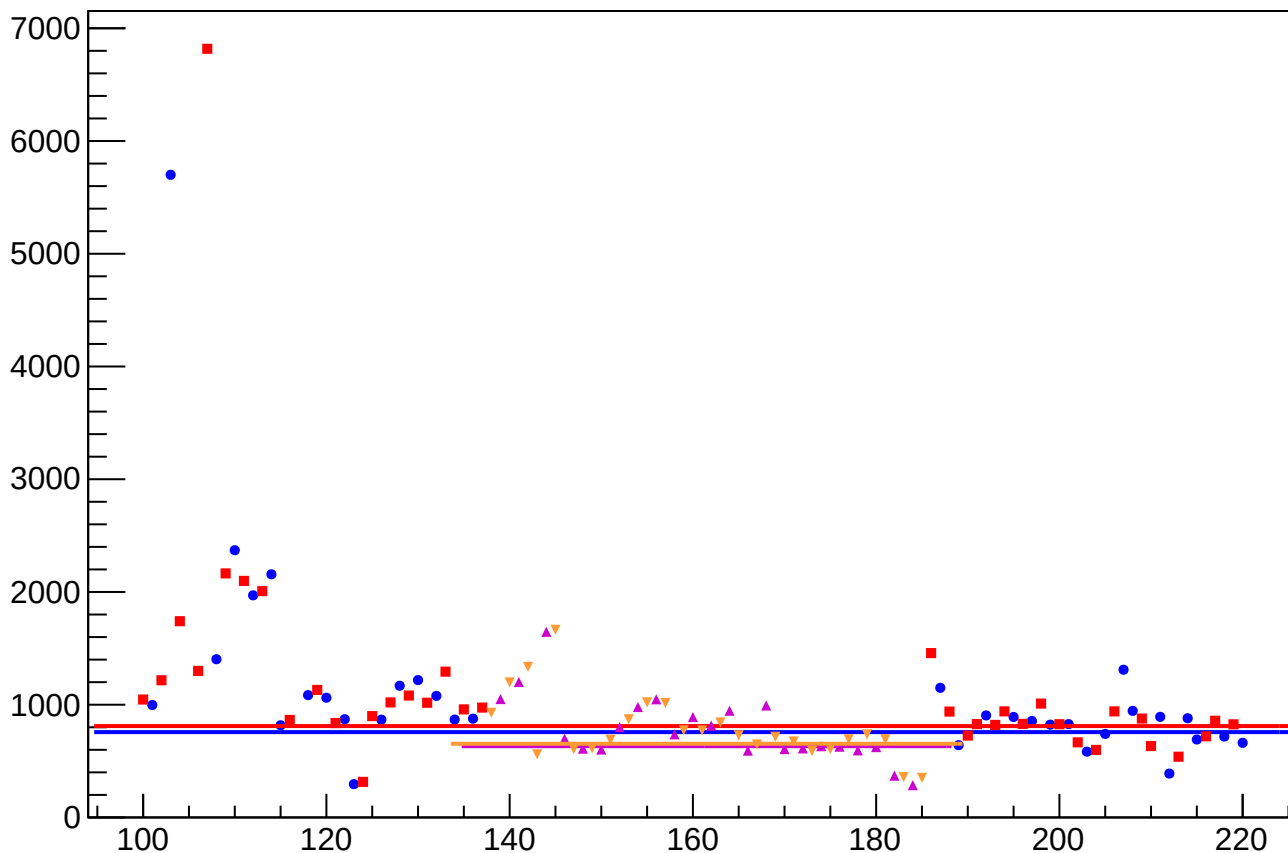
Right: -78.709 ± 137.000 χ^2/NDF : 117.5/70

In: 289.943 ± 122.774 χ^2/NDF : 63.3/56

Out: -147.343 ± 125.088 χ^2/NDF : 105.0/61

All: 75.382 ± 87.621 χ^2/NDF : 174.5/118

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 756.993+/-0.133 χ^2/NDF : 4581591.7/33

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

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

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

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

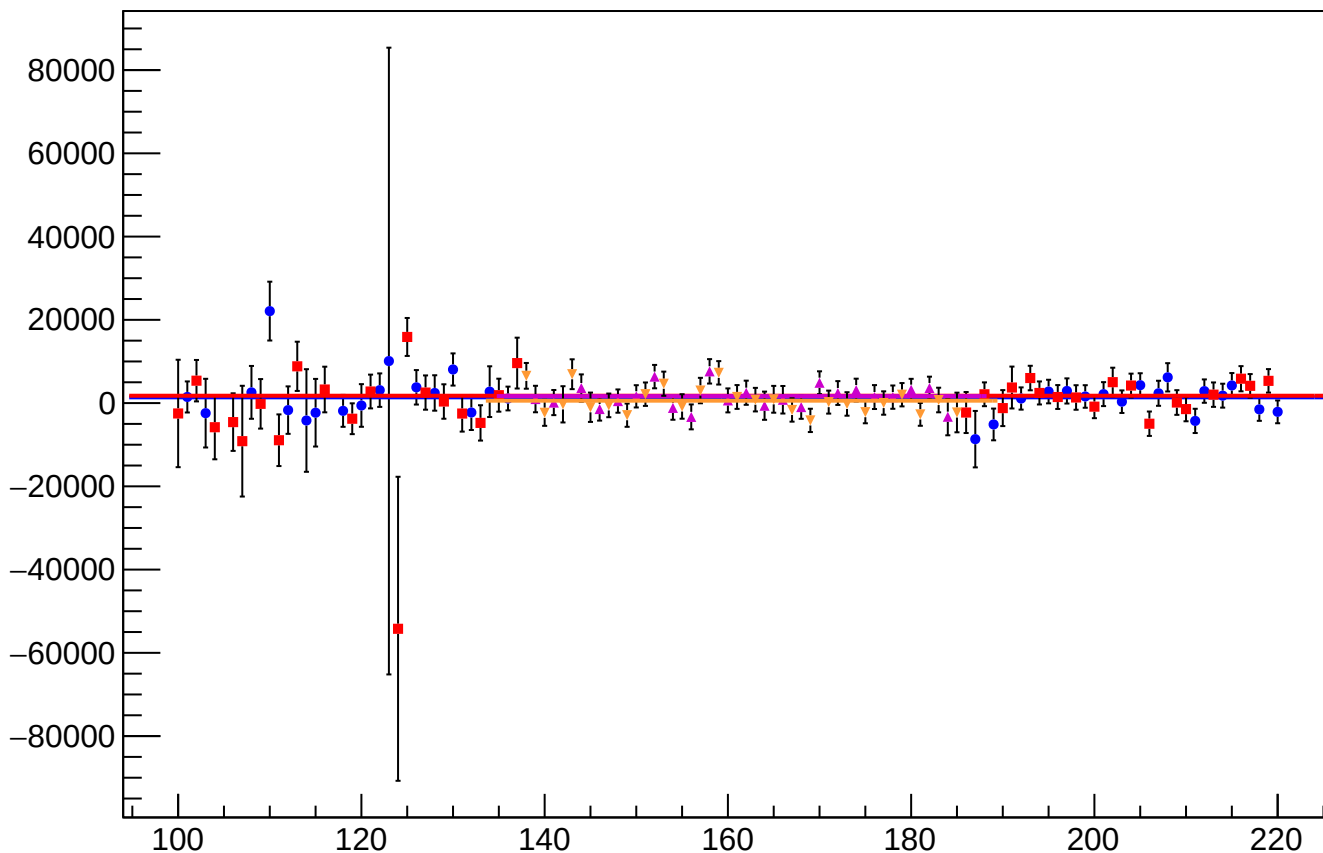
Right: 782.280+/-0.097 χ^2/NDF : 8515274.2/70

In: 685.005+/-0.087 χ^2/NDF : 9030224.4/56

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

All: 699.974+/-0.062 χ^2/NDF : 16952558.1/111

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1383.707 $\pm$ 613.279 χ^2 /NDF: 31.5/33

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

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

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

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

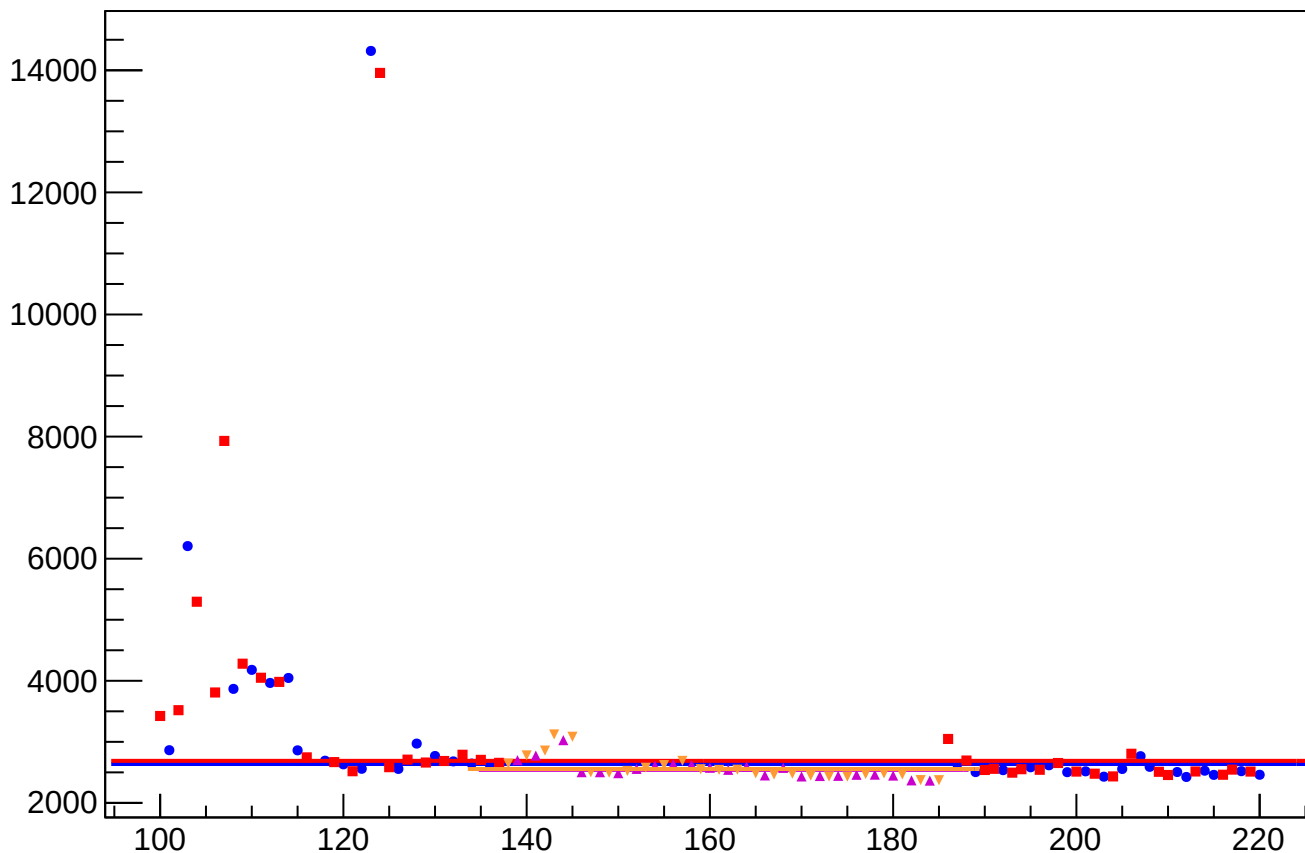
Right: 1573.322 $\pm$ 435.957 χ^2 /NDF: 75.7/70

In: 1532.406 $\pm$ 432.529 χ^2 /NDF: 49.8/56

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

All: 1341.042 $\pm$ 304.967 χ^2 /NDF: 121.4/118

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2637.013 $\pm$ 0.434 χ^2 /NDF: 822502.5/33

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

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

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

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

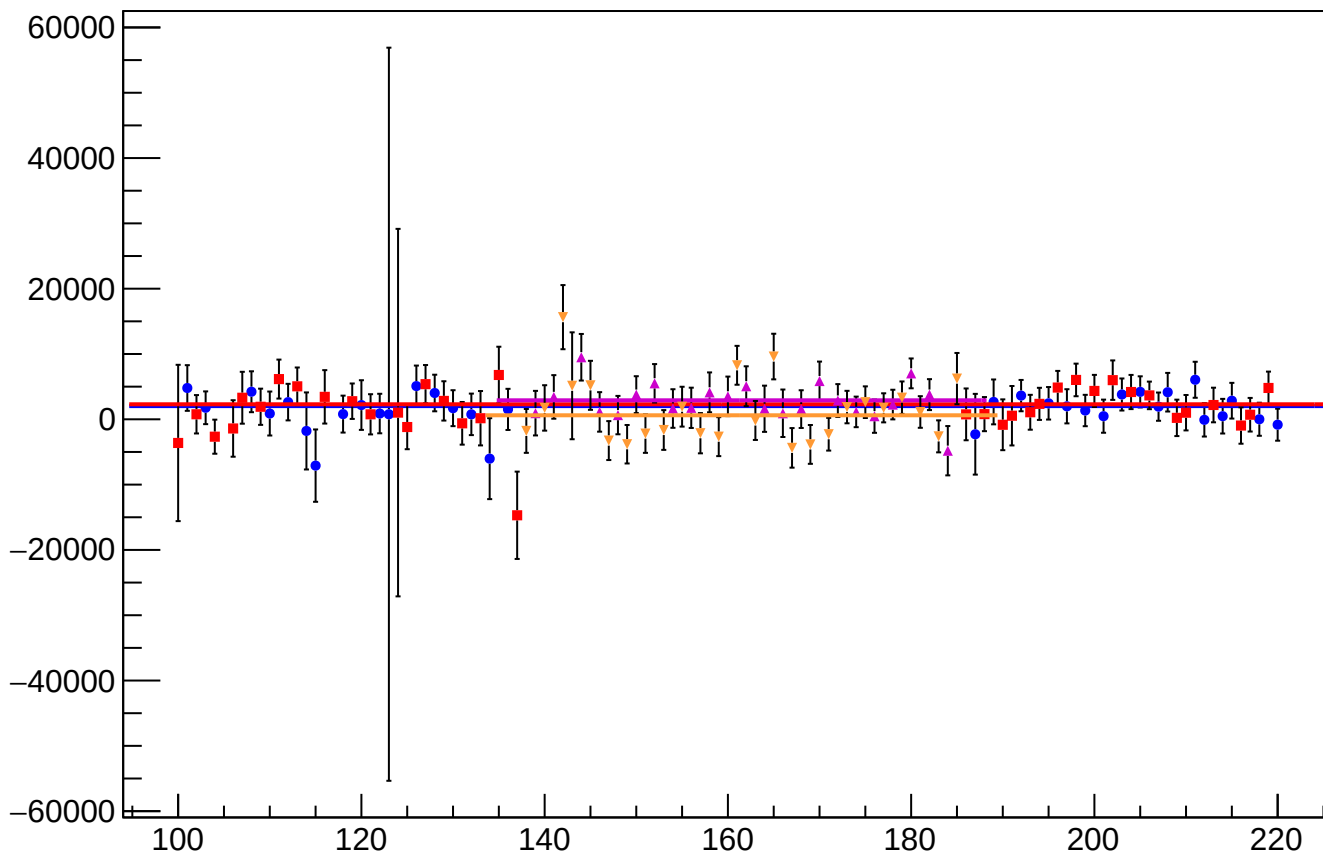
Right: 2662.699 $\pm$ 0.308 χ^2 /NDF: 2133619.0/70

In: 2588.752 $\pm$ 0.306 χ^2 /NDF:941902.7/56

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

All: 2604.274 $\pm$ 0.216 χ^2 /NDF: 2454022.1/111

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2020.599+/-500.918 χ^2/NDF : 16.7/33

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

Right Out: 2299.705+/-498.191 χ^2/NDF : 30.1/36

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

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

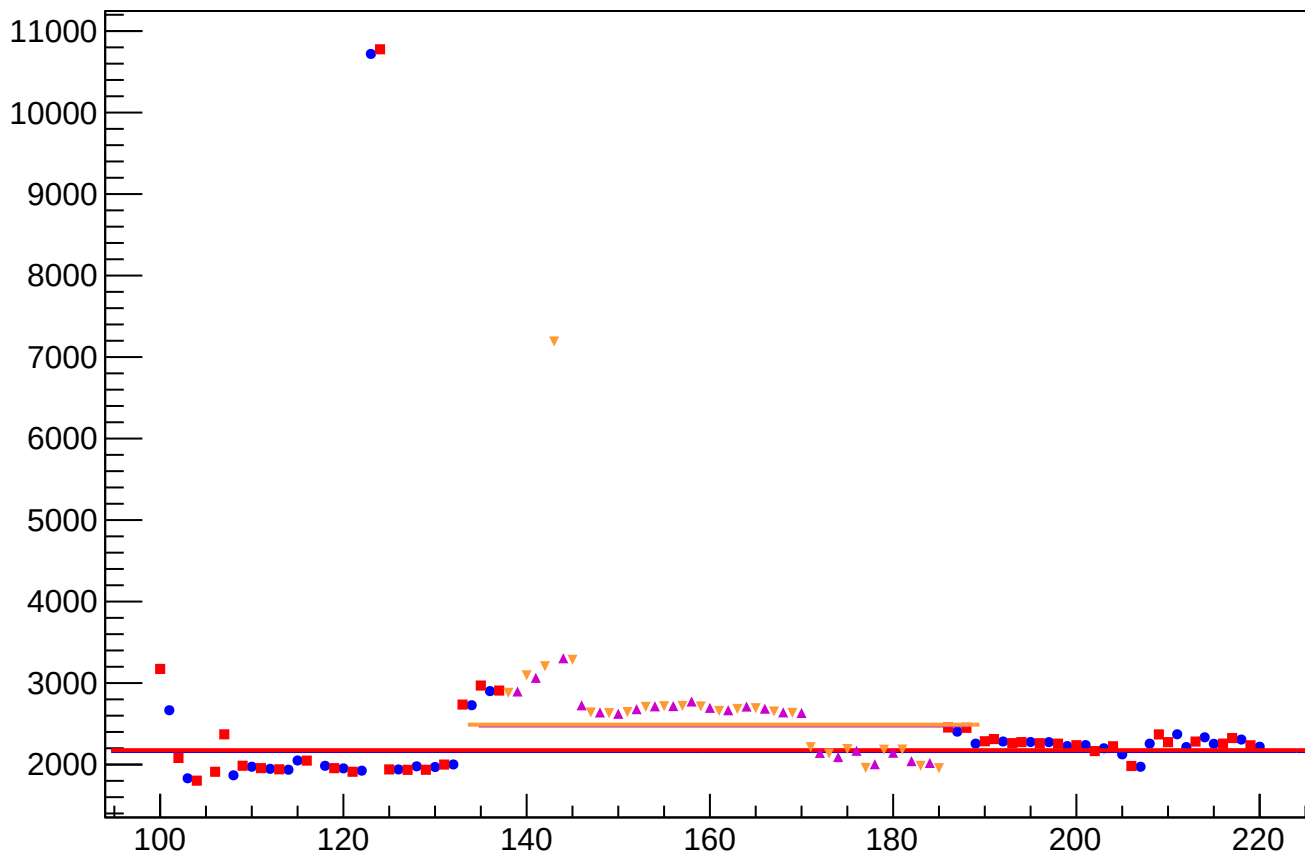
Right: 2160.914+/-353.234 χ^2/NDF : 46.9/70

In: 2385.765+/-384.440 χ^2/NDF : 35.3/56

Out: 1600.018+/-380.951 χ^2/NDF : 80.0/61

All: 1989.309+/-270.598 χ^2/NDF : 117.4/118

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2165.901+/-0.354 χ^2/NDF : 418489.6/33

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

Right Out: 2176.591+/-0.352 χ^2/NDF : 577722.4/36

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

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

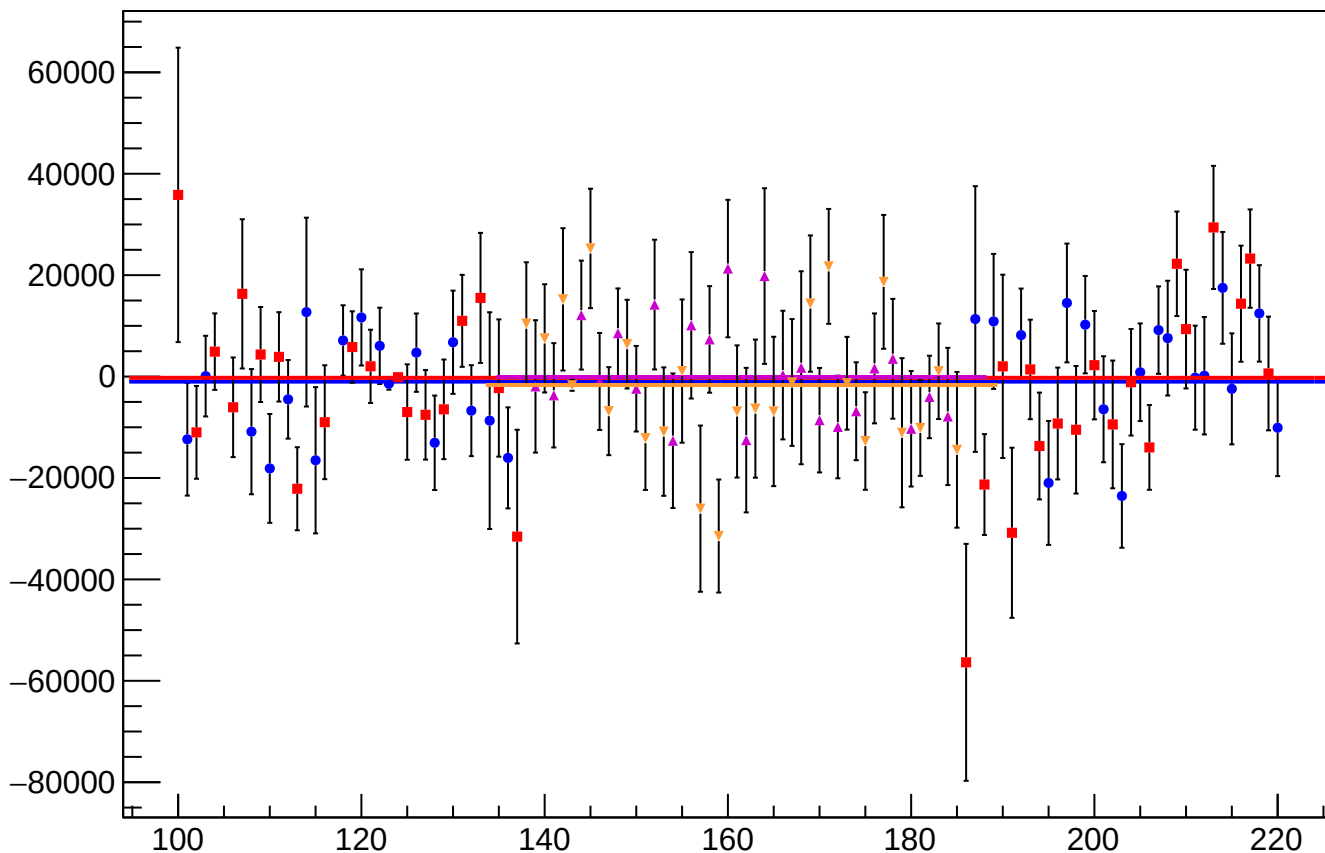
Right: 2171.275+/-0.250 χ^2/NDF : 996669.8/70

In: 2294.724+/-0.272 χ^2/NDF :1408738.4/56

Out: 2306.568+/-0.269 χ^2/NDF :2269744.0/61

All: 2300.700+/-0.191 χ^2/NDF : 3679440.4/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -992.119 ± 976.279 χ^2/NDF : 36.6/33

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

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

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

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

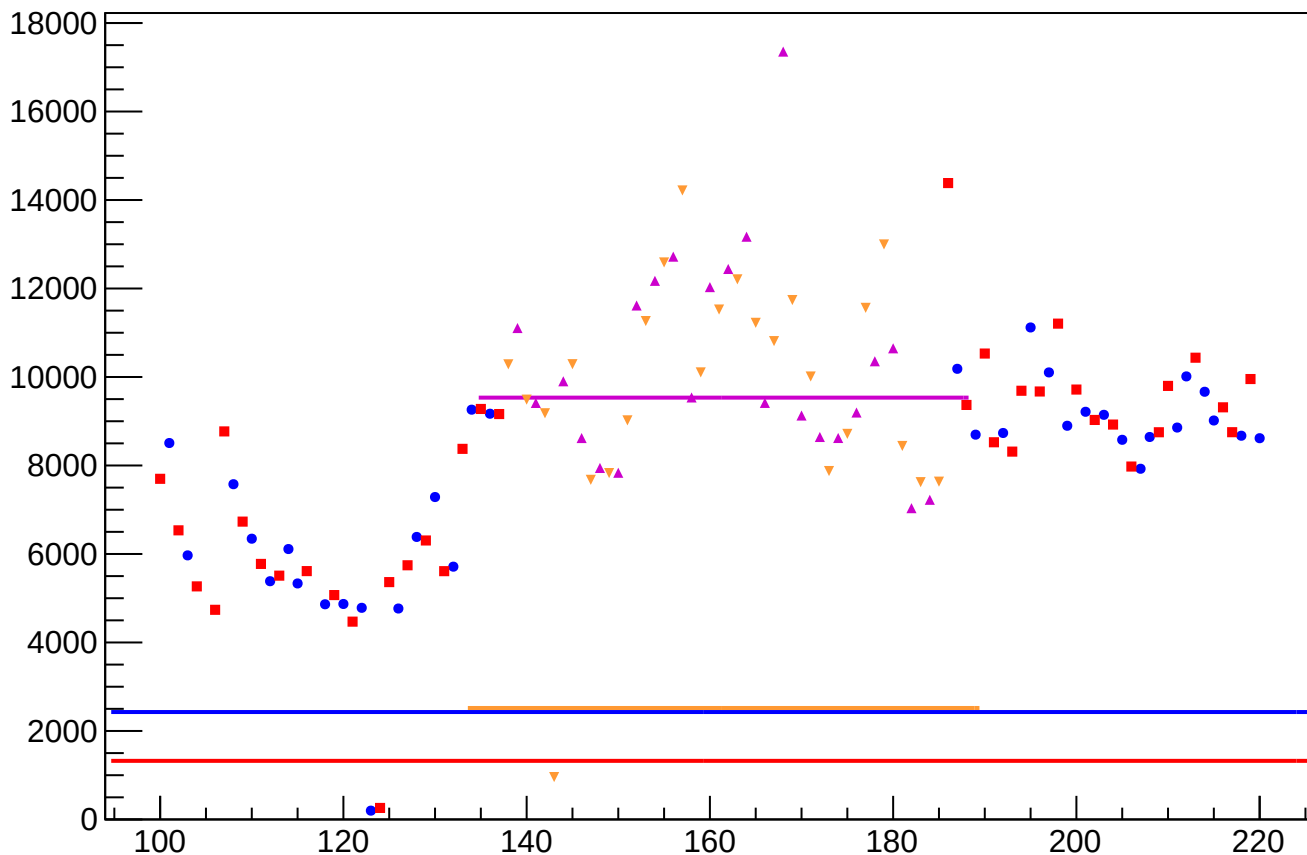
Right: -484.669 ± 554.008 χ^2/NDF : 96.8/70

In: -856.092 ± 900.520 χ^2/NDF : 50.6/56

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

All: -736.664 ± 473.721 χ^2/NDF : 144.1/118

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2427.757 $\pm$ 0.690

χ^2 /NDF: 25427863.5/33

Left: 3596.432 $\pm$ 0.646

χ^2 /NDF: 40280305.8/47

Left Out: 2519.359 $\pm$ 0.702

χ^2 /NDF: 23642118.3/24

Right: 1679.748 $\pm$ 0.392

χ^2 /NDF: 58112274.0/70

Right Out: 1324.464 $\pm$ 0.476

χ^2 /NDF: 30952681.1/36

In: 3487.786 $\pm$ 0.637

χ^2 /NDF: 42550180.2/56

Out: 1700.408 $\pm$ 0.394

χ^2 /NDF: 56579370.6/61

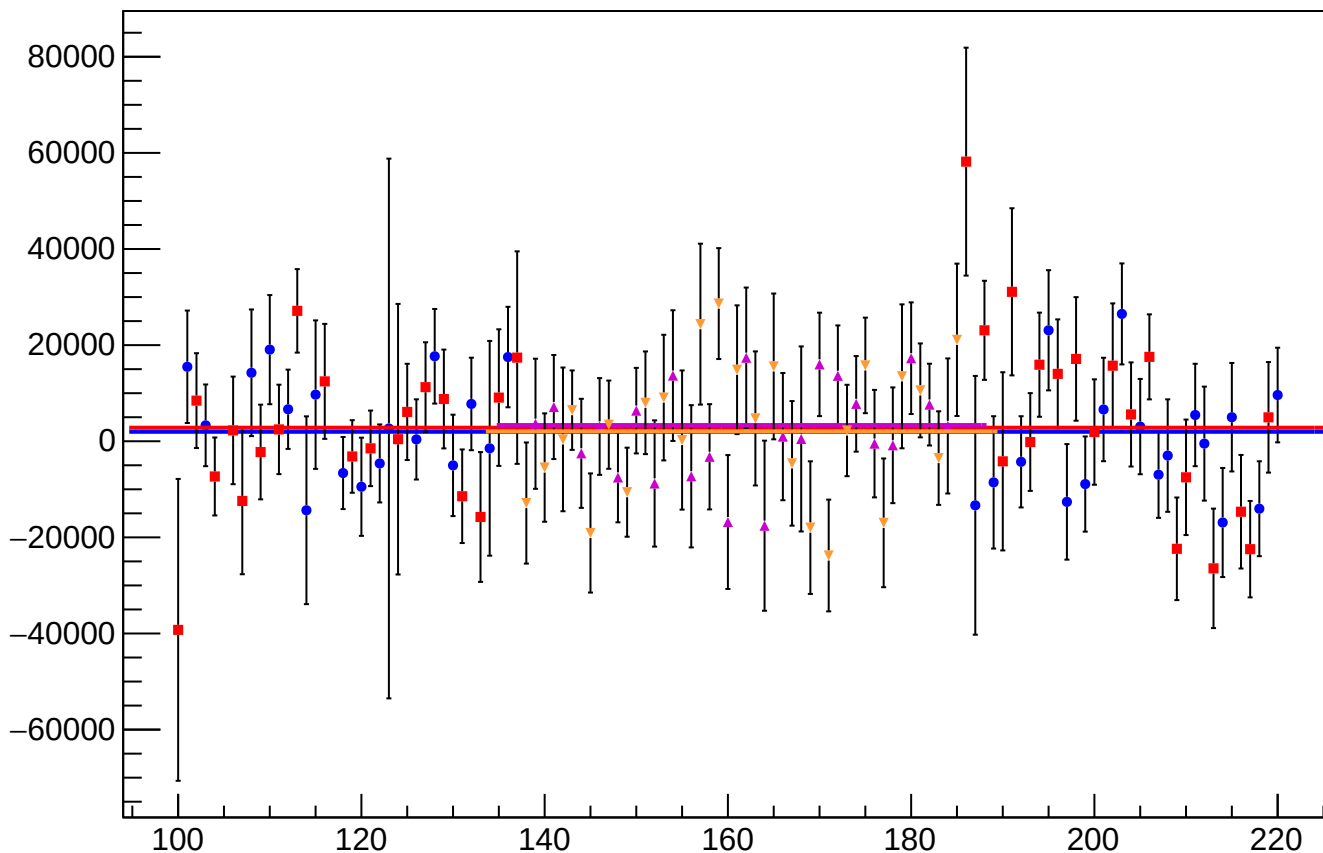
Left In: 9533.563 $\pm$ 1.649

χ^2 /NDF: 1316640.0/22

All: 2195.031 $\pm$ 0.335

χ^2 /NDF: 104828252.1

asym_atl2_mean vs Slug, Sign Corrected



Right In: 1972.301+/-1839.404 χ^2/NDF : 34.5/33

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

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

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

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

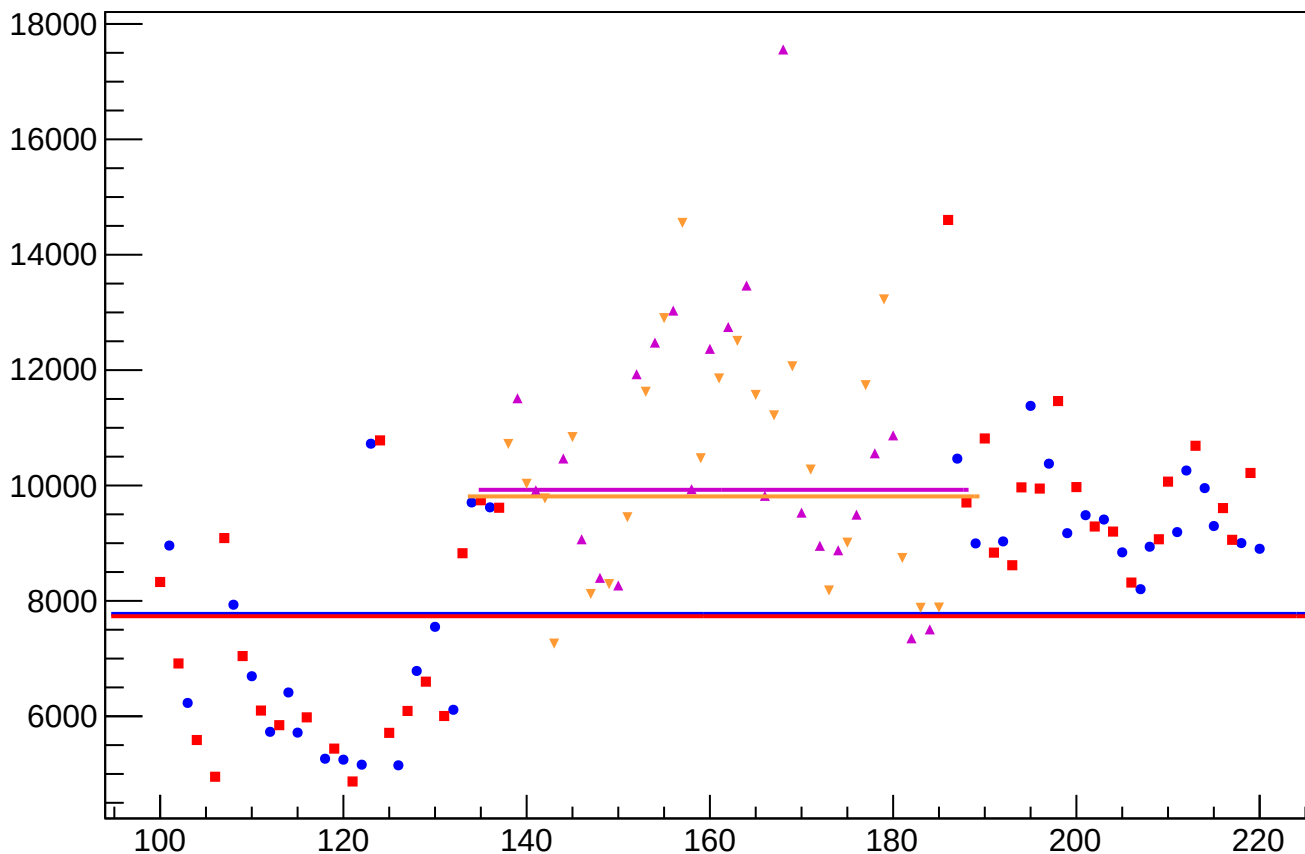
Right: 2399.778+/-1294.048 χ^2/NDF : 95.1/70

In: 2483.944+/-1465.122 χ^2/NDF : 47.8/56

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

All: 2507.452+/-1025.376 χ^2/NDF : 139.1/118

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7774.300+/-1.301 χ^2/NDF : 1995864.8/33

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

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

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

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

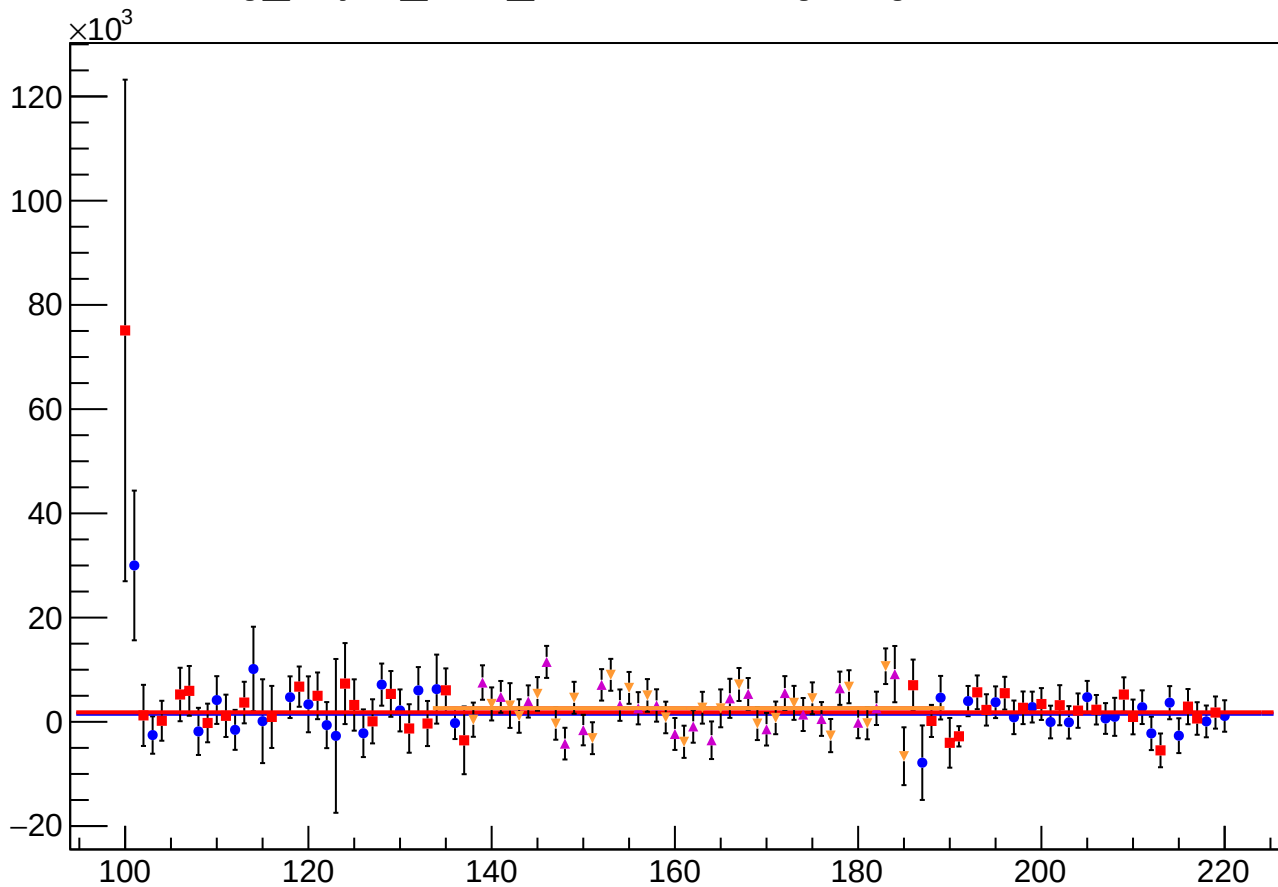
Right: 7753.828+/-0.915 χ^2/NDF : 4475980.9/70

In: 8560.601+/-1.036 χ^2/NDF : 4207265.1/56

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

All: 8539.821+/-0.725 χ^2/NDF : 8886653.1/111

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1542.437 $\pm$ 646.616 χ^2 /NDF: 22.7/33

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

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

Left In: 2638.607 $\pm$ 664.569 χ^2 /NDF: 35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2 /NDF: 70.3/47

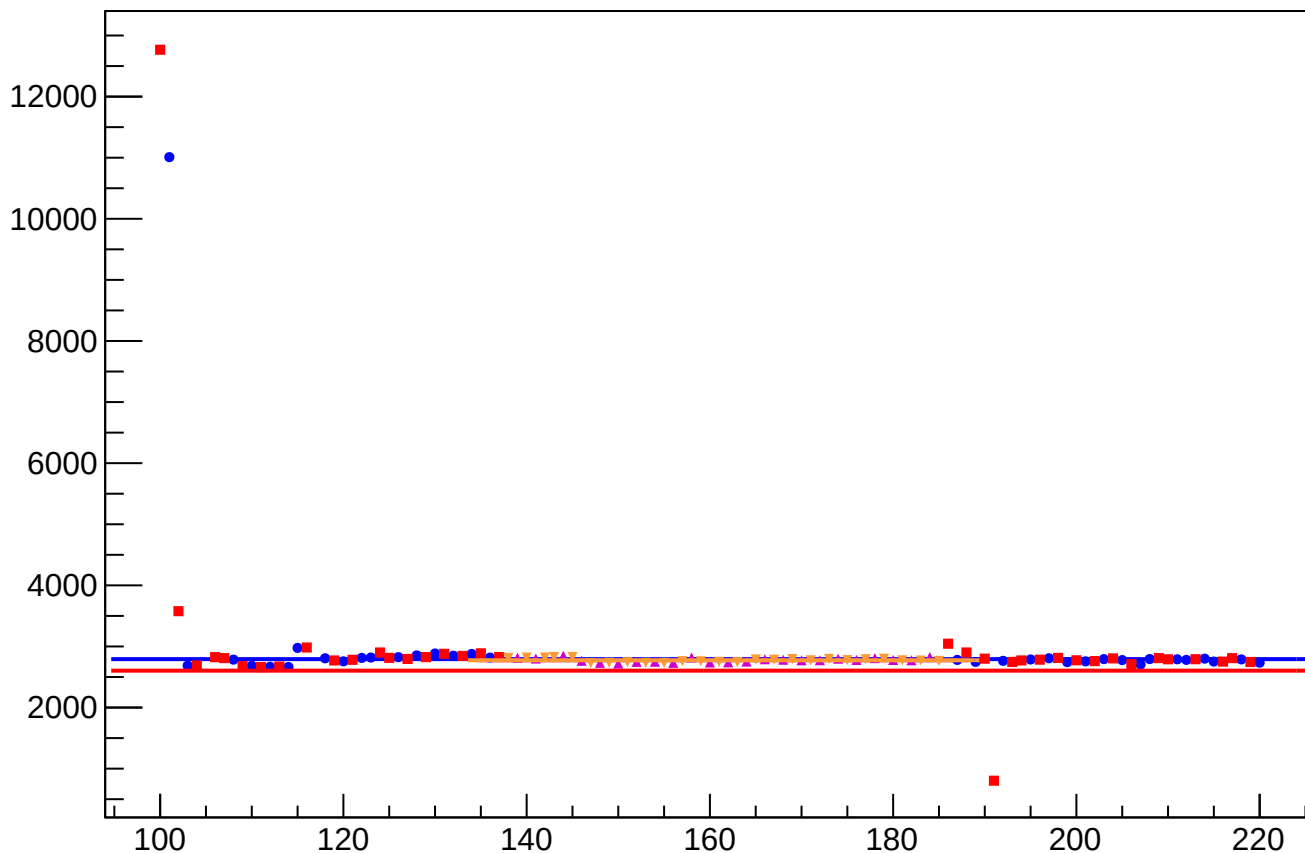
Right: 1692.435 $\pm$ 443.506 χ^2 /NDF: 51.2/70

In: 2075.515 $\pm$ 463.444 χ^2 /NDF: 59.3/56

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

All: 2144.235 $\pm$ 320.363 χ^2 /NDF: 123.7/118

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2792.577+/-0.457 χ^2/NDF : 667823.9/33

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

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

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

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

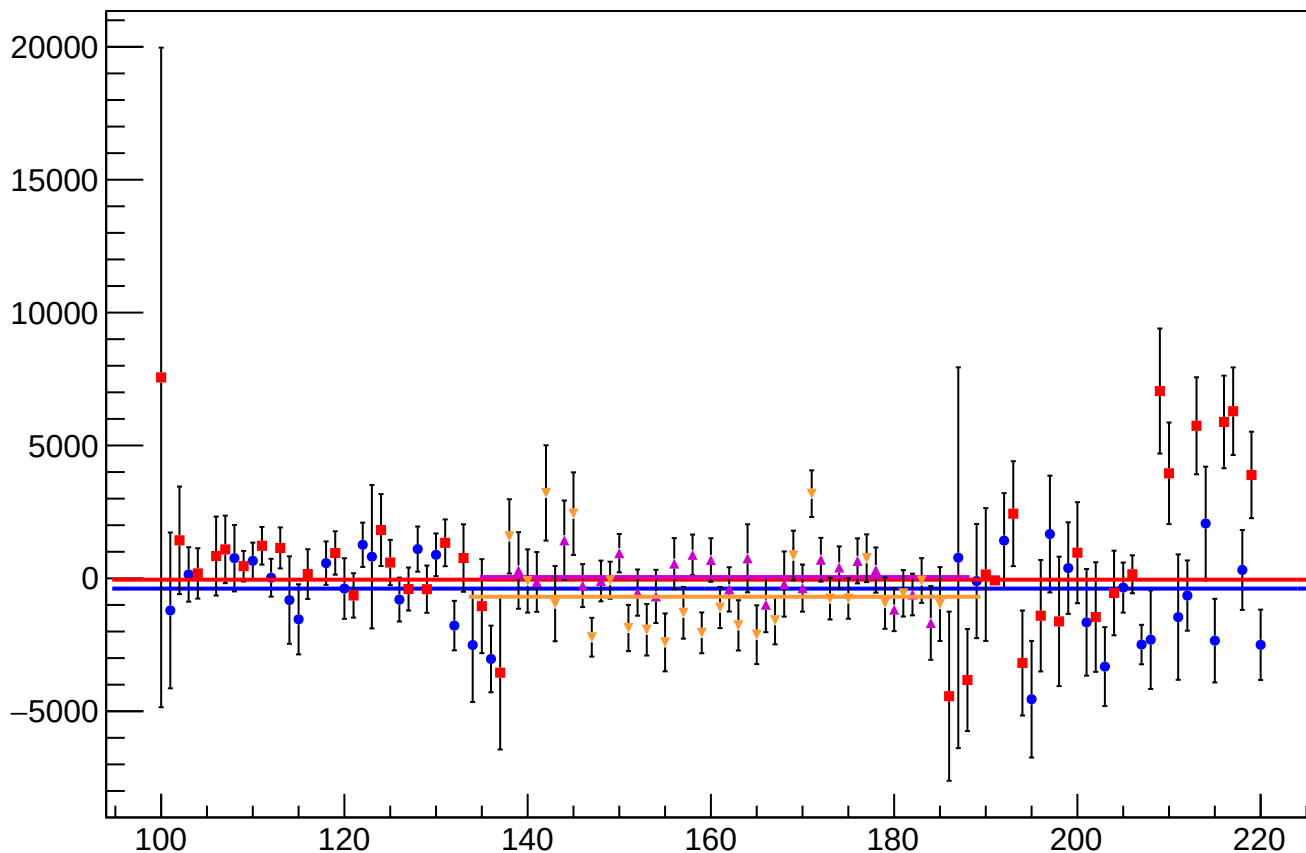
Right: 2692.753+/-0.314 χ^2/NDF : 2798913.5/70

In: 2783.560+/-0.328 χ^2/NDF : 673608.9/56

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

All: 2731.545+/-0.227 χ^2/NDF : 2840510.8/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -386.053 ± 201.472 $\chi^2/\text{NDF}: 48.7/33$

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

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

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

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

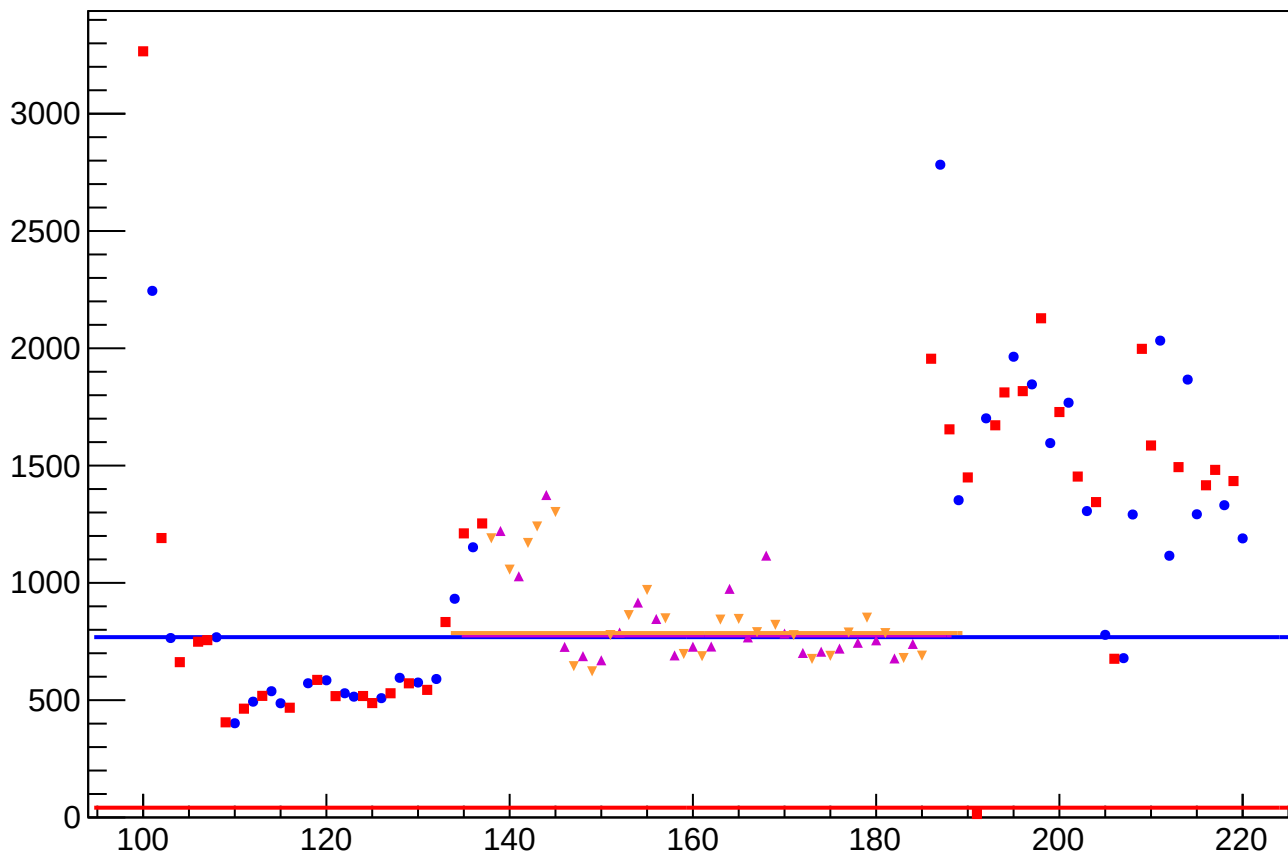
Right: -59.940 ± 37.126 $\chi^2/\text{NDF}: 137.5/70$

In: -154.733 ± 137.915 $\chi^2/\text{NDF}: 64.8/56$

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

All: -79.111 ± 35.761 $\chi^2/\text{NDF}: 218.6/118$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 768.657+/-0.142 χ^2/NDF : 7805651.8/33

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

Right Out: 41.626+/-0.027 χ^2/NDF : 35082845.9/36

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

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

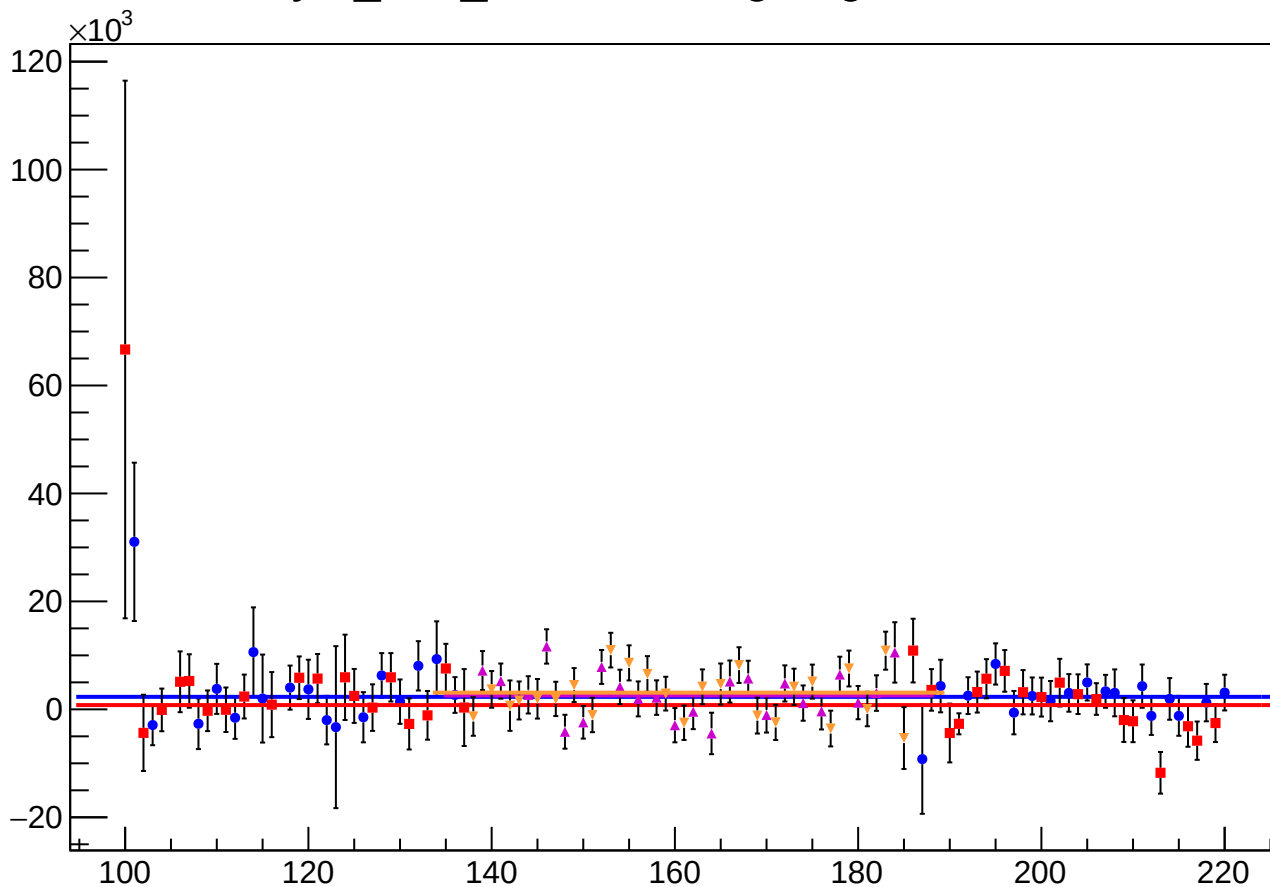
Right: 66.315+/-0.026 χ^2/NDF : 68048137.1/70

In: 772.522+/-0.098 χ^2/NDF :8863803.3/56

Out: 70.726+/-0.026 χ^2/NDF :66701807.1/61

All: 117.912+/-0.025 χ^2/NDF : 123871565.5/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2316.462+/-716.204 χ^2/NDF : 22.2/33

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

Right Out: 789.447+/-672.062 χ^2/NDF : 42.9/36

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

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

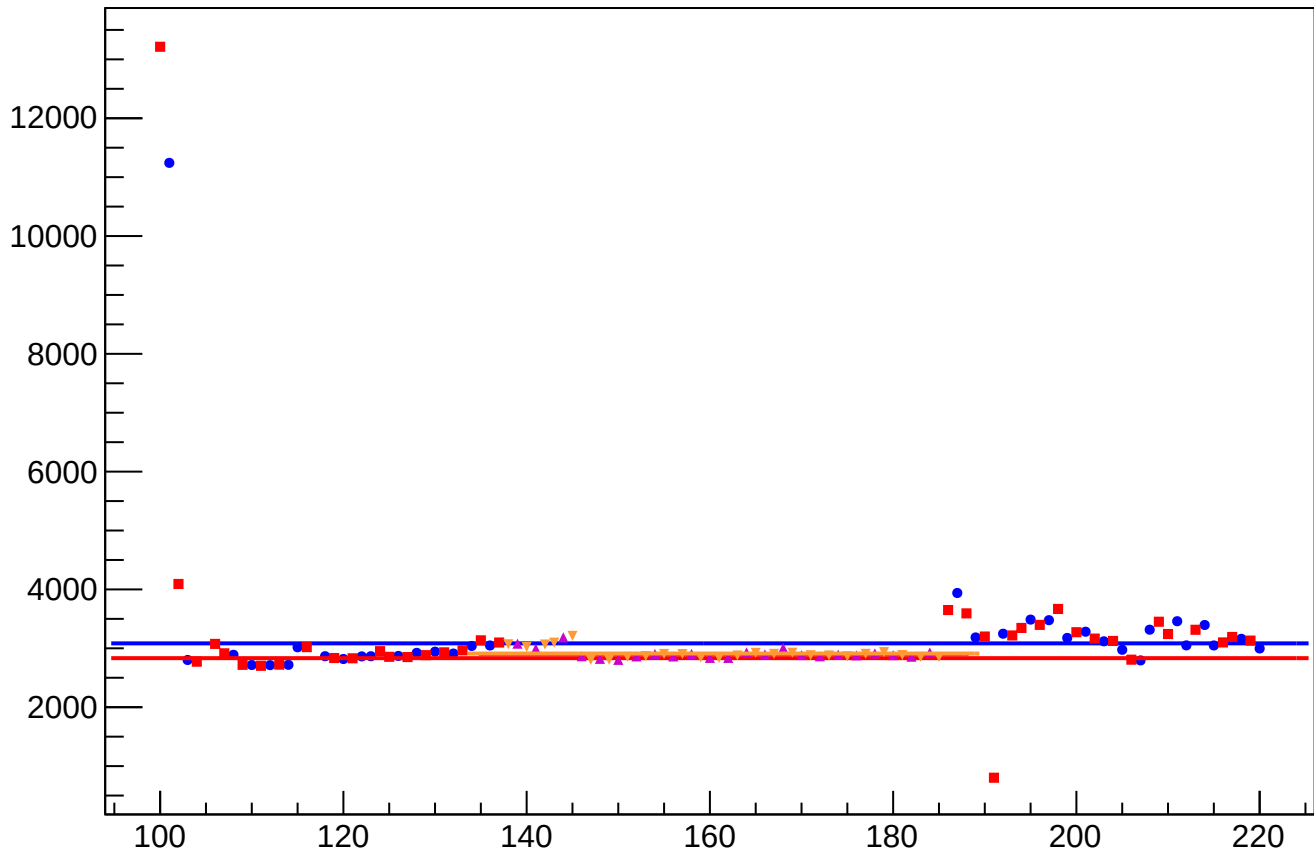
Right: 1504.450+/-490.082 χ^2/NDF : 67.6/70

In: 2448.533+/-499.061 χ^2/NDF : 58.0/56

Out: 1931.130+/-477.483 χ^2/NDF : 87.4/61

All: 2178.405+/-345.008 χ^2/NDF : 146.0/118

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3083.981+/-0.506 χ^2/NDF : 824416.9/33

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

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

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

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

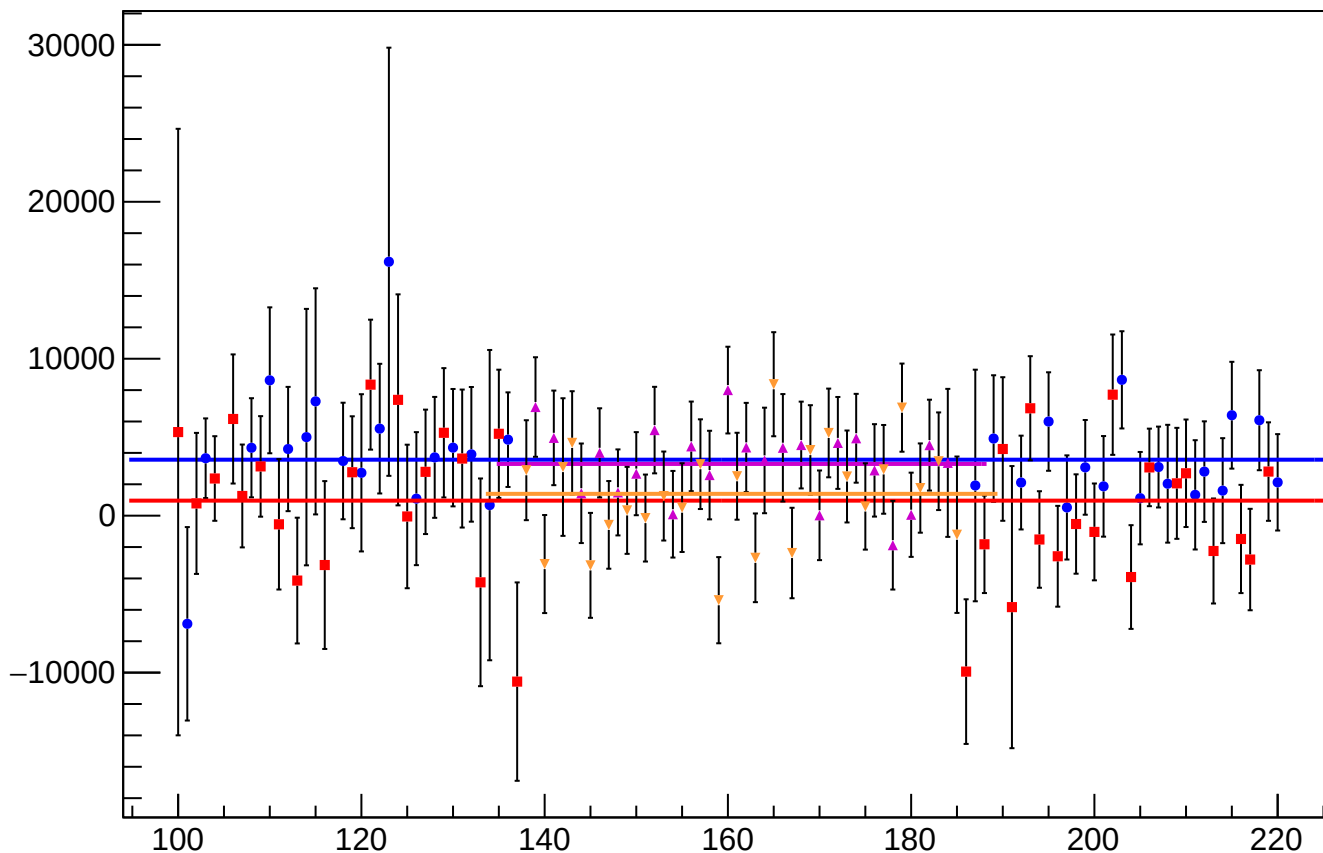
Right: 2950.409+/-0.347 χ^2/NDF : 3813507.2/70

In: 2991.086+/-0.353 χ^2/NDF : 918657.7/56

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

All: 2928.723+/-0.244 χ^2/NDF : 3886883.0/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3566.686 $\pm$ 624.457 χ^2/NDF : 14.3/33

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

Right Out: 957.736 $\pm$ 614.042 χ^2/NDF : 38.5/36

Left In: 3295.367 $\pm$ 609.991 χ^2/NDF : 14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2/NDF : 49.0/47

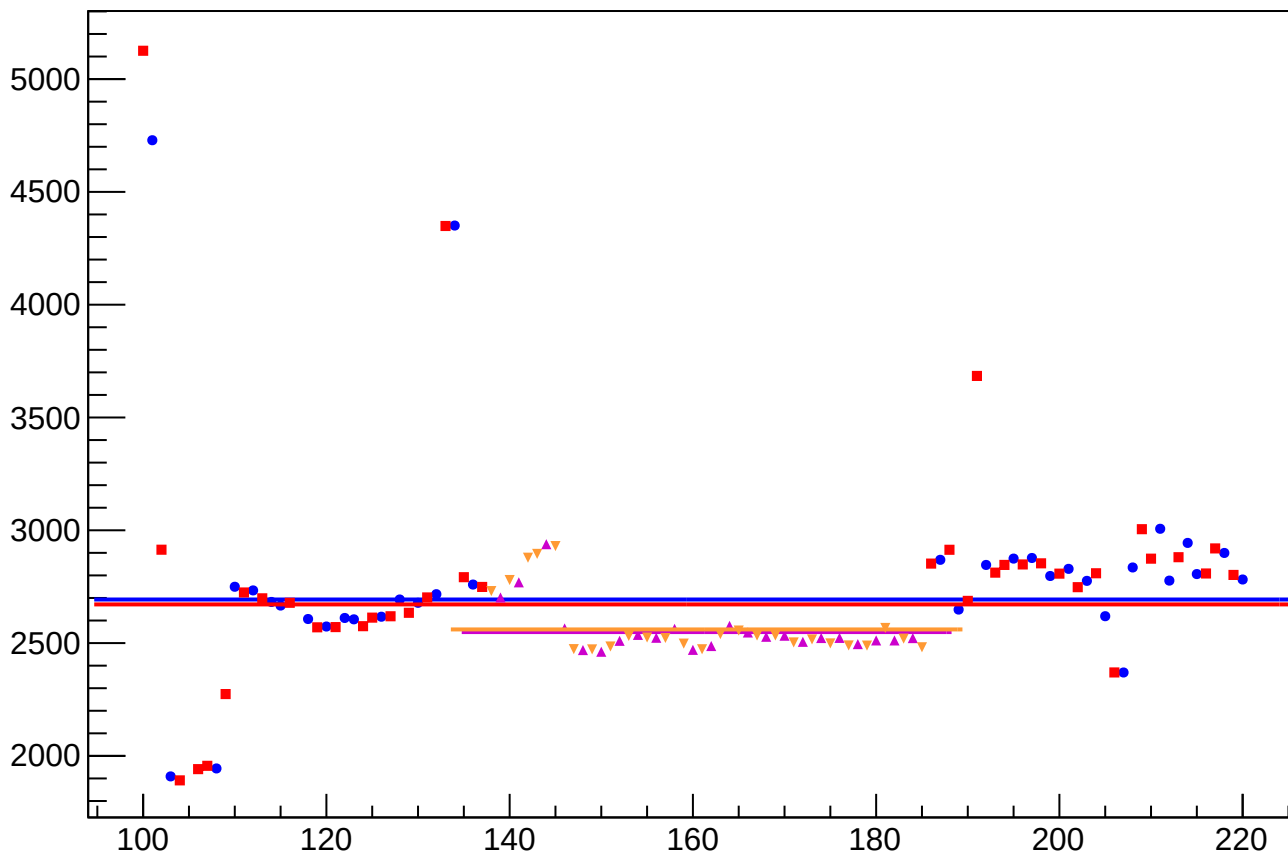
Right: 2240.272 $\pm$ 437.829 χ^2/NDF : 61.7/70

In: 3427.848 $\pm$ 436.354 χ^2/NDF : 29.3/56

Out: 1180.266 $\pm$ 427.862 χ^2/NDF : 67.9/61

All: 2281.975 $\pm$ 305.502 χ^2/NDF : 110.7/118

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2693.202 $\pm$ 0.442 χ^2 /NDF: 686762.2/33

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2671.429 $\pm$ 0.434 χ^2 /NDF: 682258.9/36

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

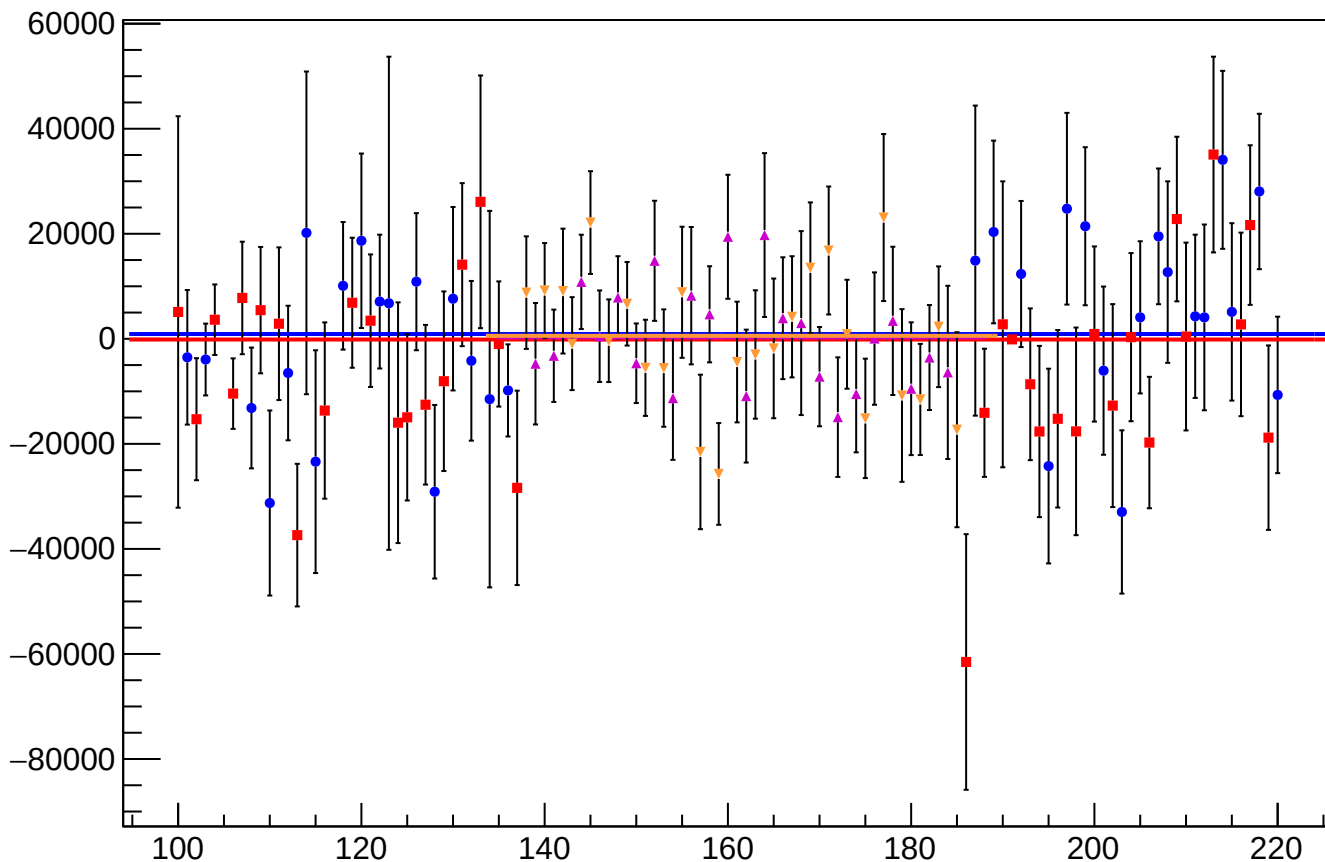
Right: 2682.132 $\pm$ 0.310 χ^2 /NDF: 1370257.4/70

In: 2619.345 $\pm$ 0.309 χ^2 /NDF: 796702.4/56

Out: 2614.375 $\pm$ 0.303 χ^2 /NDF: 802591.8/61

All: 2616.811 $\pm$ 0.216 χ^2 /NDF: 1599426.4/111

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 911.197 ± 2491.399 $\chi^2/\text{NDF}: 38.3/33$

Left Out: 572.477 ± 2184.376 $\chi^2/\text{NDF}: 28.2/24$

Right Out: -136.649 ± 194.865 $\chi^2/\text{NDF}: 43.0/36$

Left In: 275.116 ± 2242.836 $\chi^2/\text{NDF}: 15.7/22$

Left: 427.723 ± 1564.847 $\chi^2/\text{NDF}: 43.9/47$

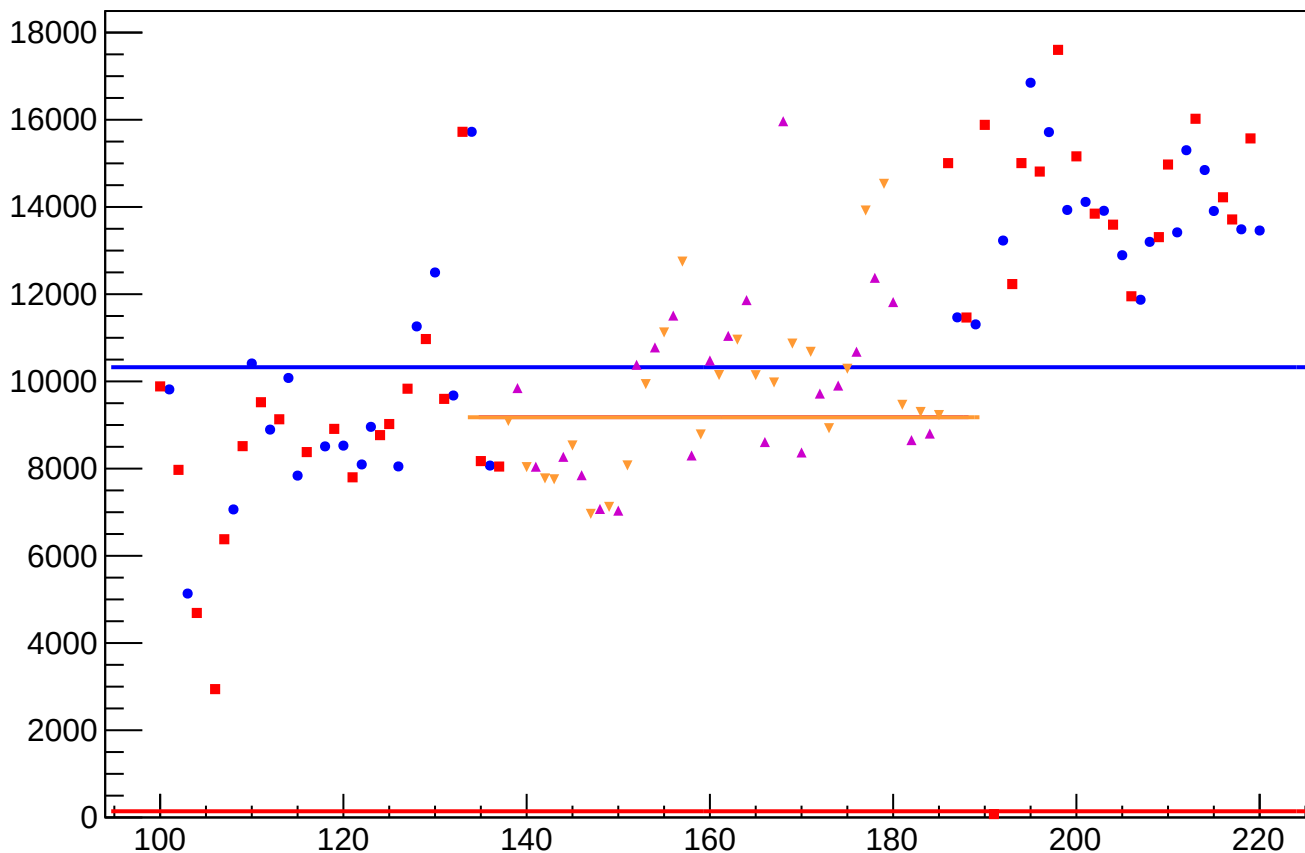
Right: -130.278 ± 194.272 $\chi^2/\text{NDF}: 81.4/70$

In: 559.852 ± 1666.895 $\chi^2/\text{NDF}: 54.0/56$

Out: -131.050 ± 194.094 $\chi^2/\text{NDF}: 71.3/61$

All: -121.808 ± 192.792 $\chi^2/\text{NDF}: 125.5/118$

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10325.285 $\pm$ 1.762

χ^2 /NDF: 3430402.9/33

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 203.843 $\pm$ 0.137

χ^2 /NDF: 73908195.4/70

Right Out: 141.924 $\pm$ 0.138

χ^2 /NDF: 37267179.9/36

In: 9693.369 $\pm$ 1.179

χ^2 /NDF: 4899810.7/56

Out: 213.264 $\pm$ 0.137

χ^2 /NDF: 72395146.5/61

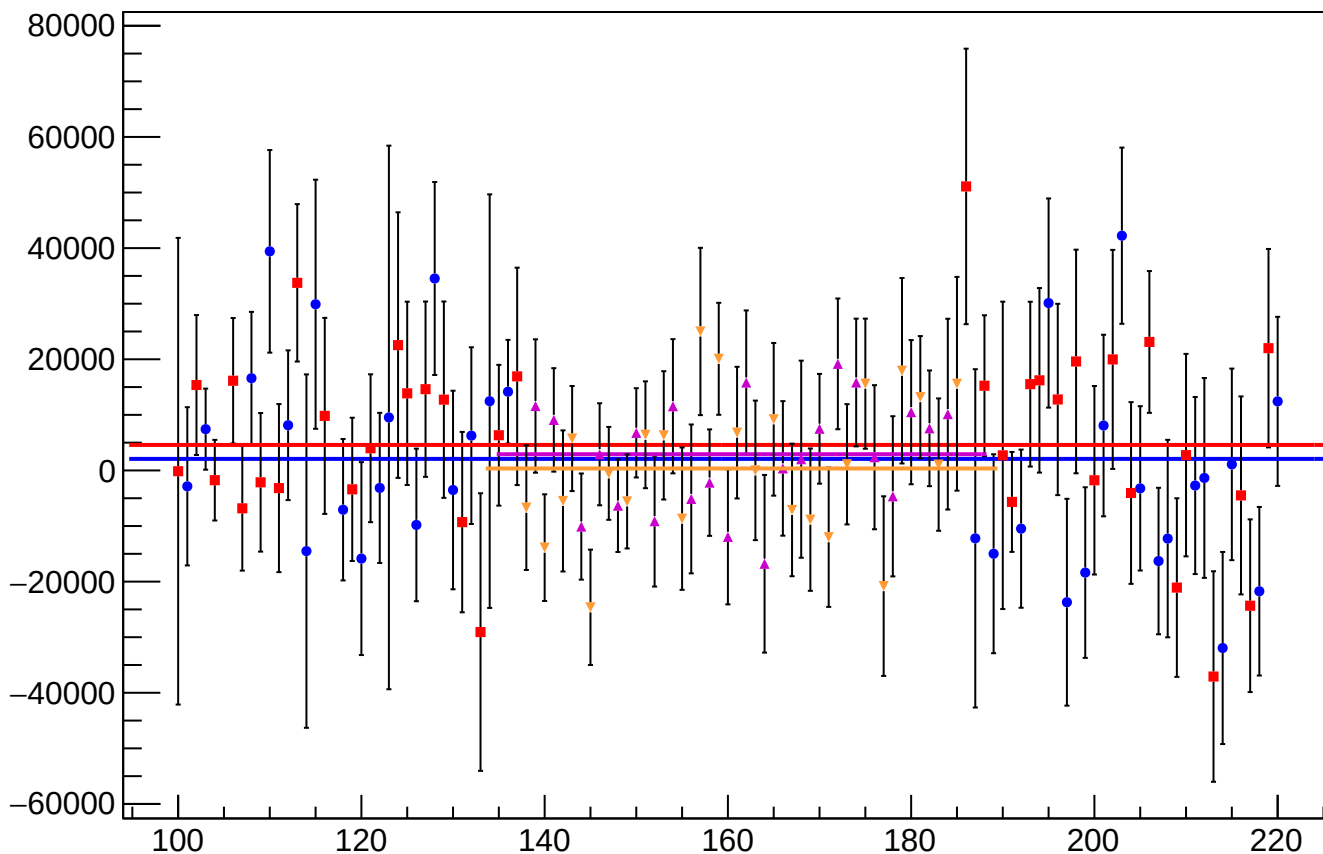
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 340.080 $\pm$ 0.136

χ^2 /NDF: 141119979.3/37

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2078.570 $\pm$ 2596.133 χ^2 /NDF: 40.3/33

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

Right Out: 4590.621 $\pm$ 2418.841 χ^2 /NDF: 35.9/36

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

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

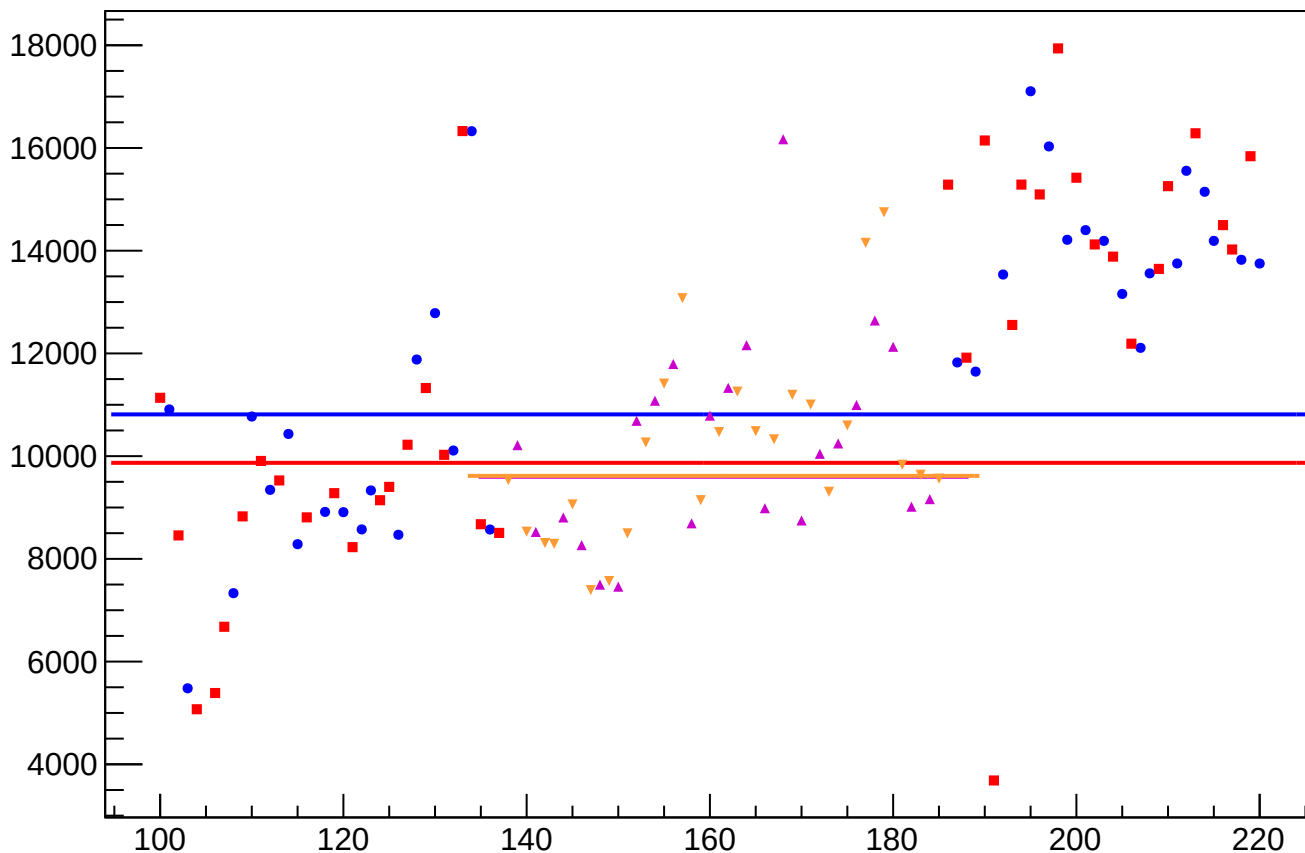
Right: 3423.292 $\pm$ 1769.740 χ^2 /NDF: 76.7/70

In: 2542.195 $\pm$ 1737.518 χ^2 /NDF:55.3/56

Out: 2349.702 $\pm$ 1659.765 χ^2 /NDF:63.8/61

All: 2441.545 $\pm$ 1200.177 χ^2 /NDF: 119.1/118

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10812.993 $\pm$ 1.836 χ^2/NDF : 3095717.2/33

Left Out: 9616.245 $\pm$ 1.613 χ^2/NDF : 1011665.6/24

Right Out: 9869.633 $\pm$ 1.710 χ^2/NDF : 5110010.4/36

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

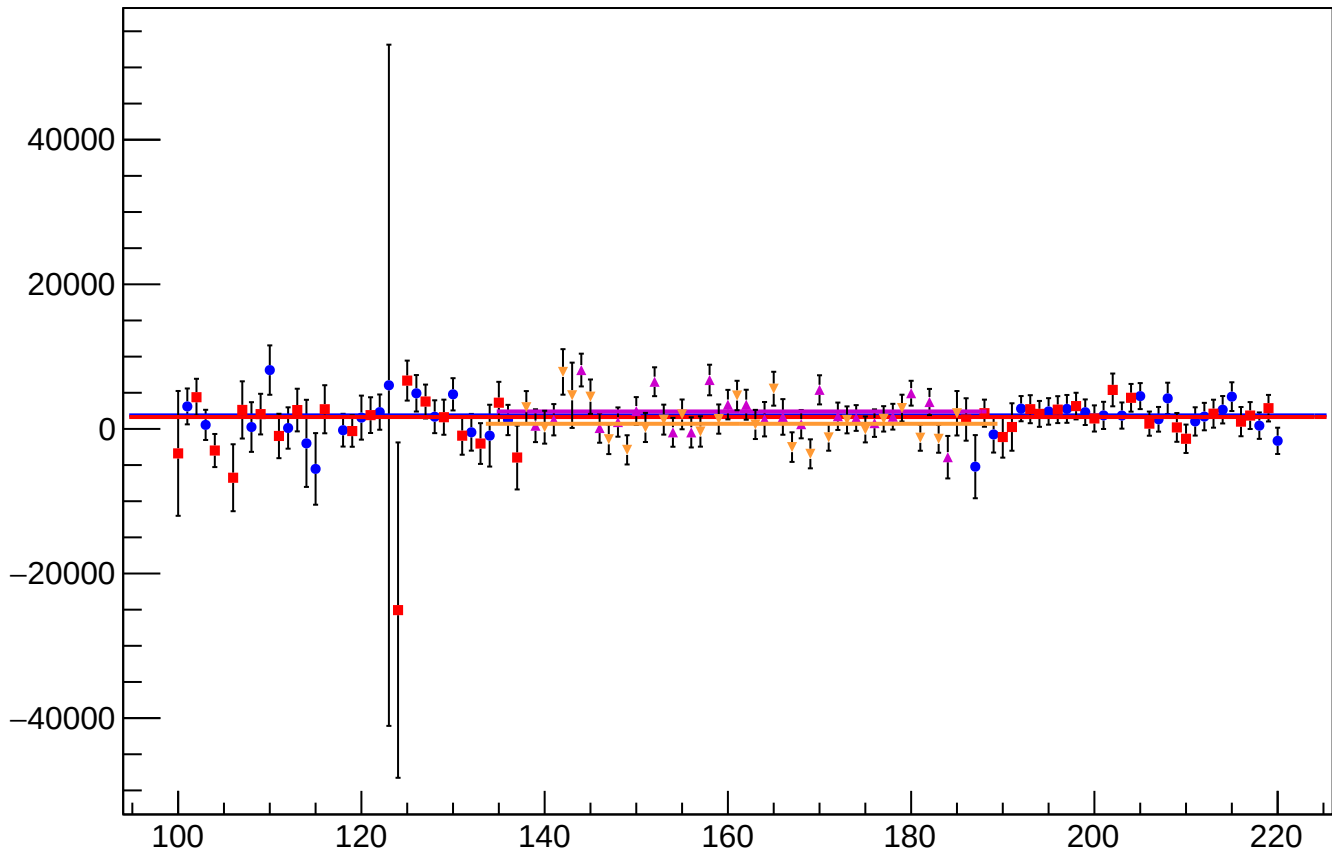
Right: 10307.991 $\pm$ 1.251 χ^2/NDF : 8347093.9/70

In: 10142.518 $\pm$ 1.229 χ^2/NDF : 4419514.0/56

Out: 9735.555 $\pm$ 1.174 χ^2/NDF : 6133290.0/61

All: 9929.725 $\pm$ 0.849 χ^2/NDF : 10610173.9/131

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1872.390+/-384.482 χ^2/NDF : 27.0/33

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

Right Out: 1642.696+/-385.662 χ^2/NDF : 31.9/36

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

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

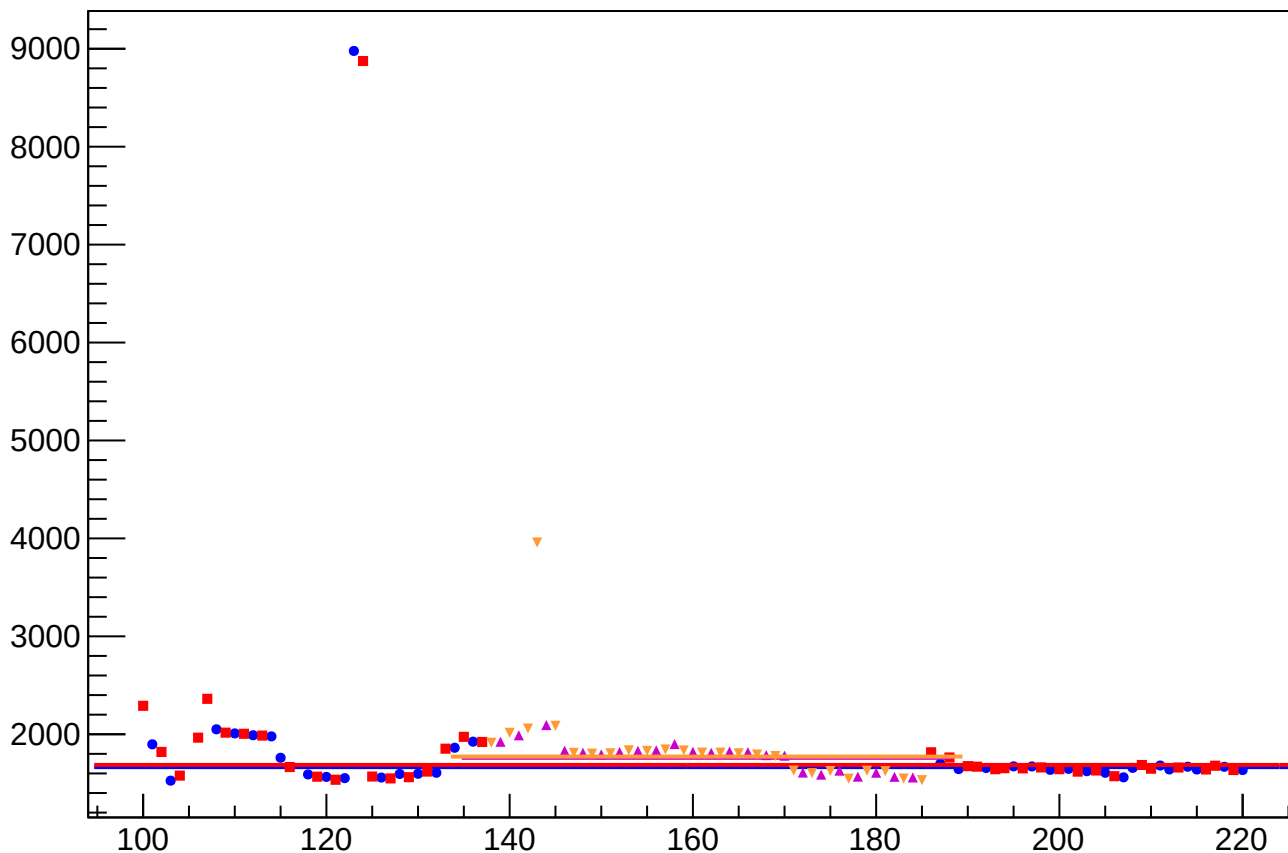
Right: 1757.895+/-272.286 χ^2/NDF : 59.1/70

In: 2117.457+/-284.658 χ^2/NDF : 61.9/56

Out: 1212.999+/-283.254 χ^2/NDF : 69.5/61

All: 1662.991+/-200.785 χ^2/NDF : 136.4/118

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1664.440+/-0.272 χ^2/NDF : 217111.0/33

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1686.919+/-0.272 χ^2/NDF : 441171.3/36

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

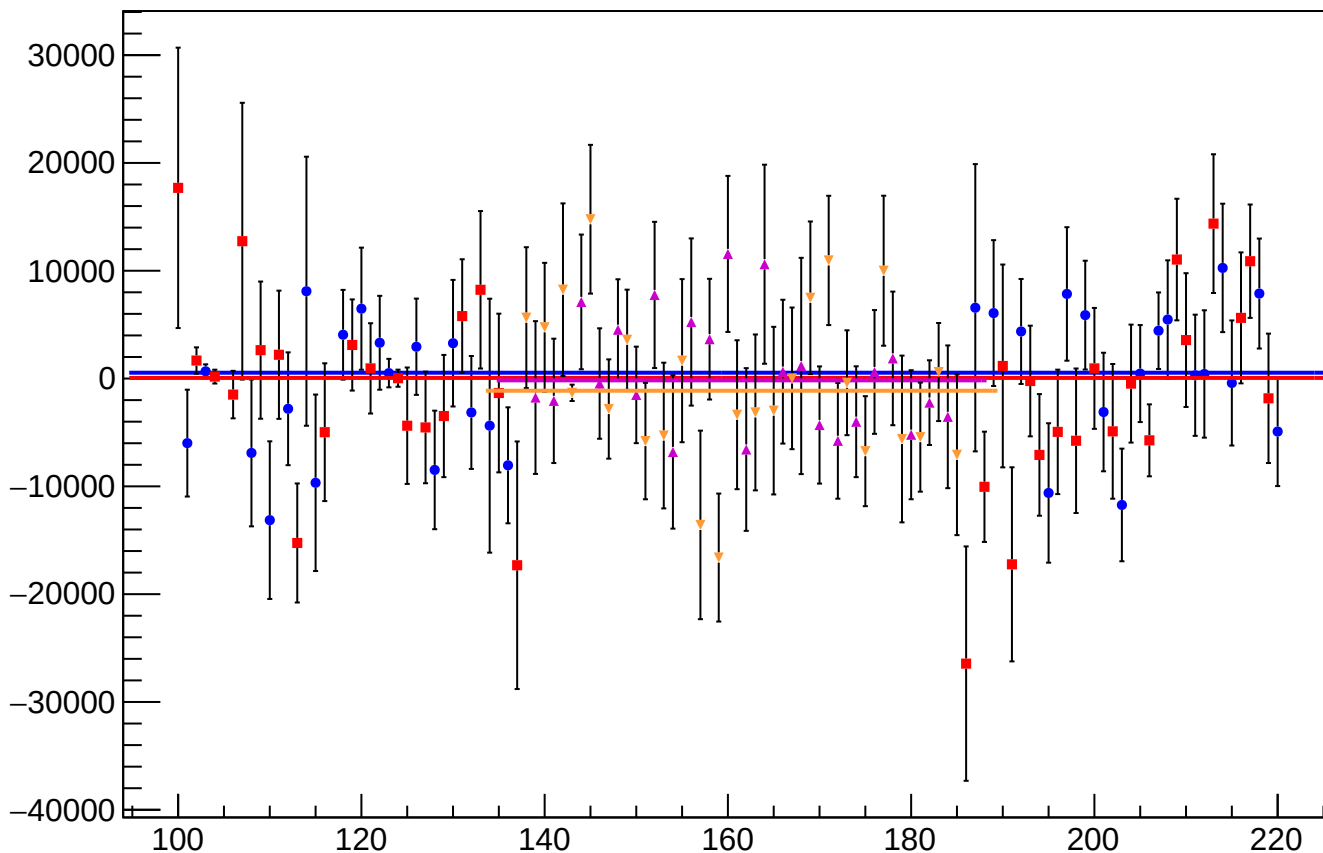
Right: 1675.662+/-0.192 χ^2/NDF : 661695.1/70

In: 1707.438+/-0.201 χ^2/NDF : 487360.5/56

Out: 1726.063+/-0.200 χ^2/NDF : 1188583.7/61

All: 1716.804+/-0.142 χ^2/NDF : 1680249.7/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 541.414 $\pm$ 499.545 χ^2 /NDF: 38.3/33

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: 58.318 $\pm$ 413.013 χ^2 /NDF: 55.5/36

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

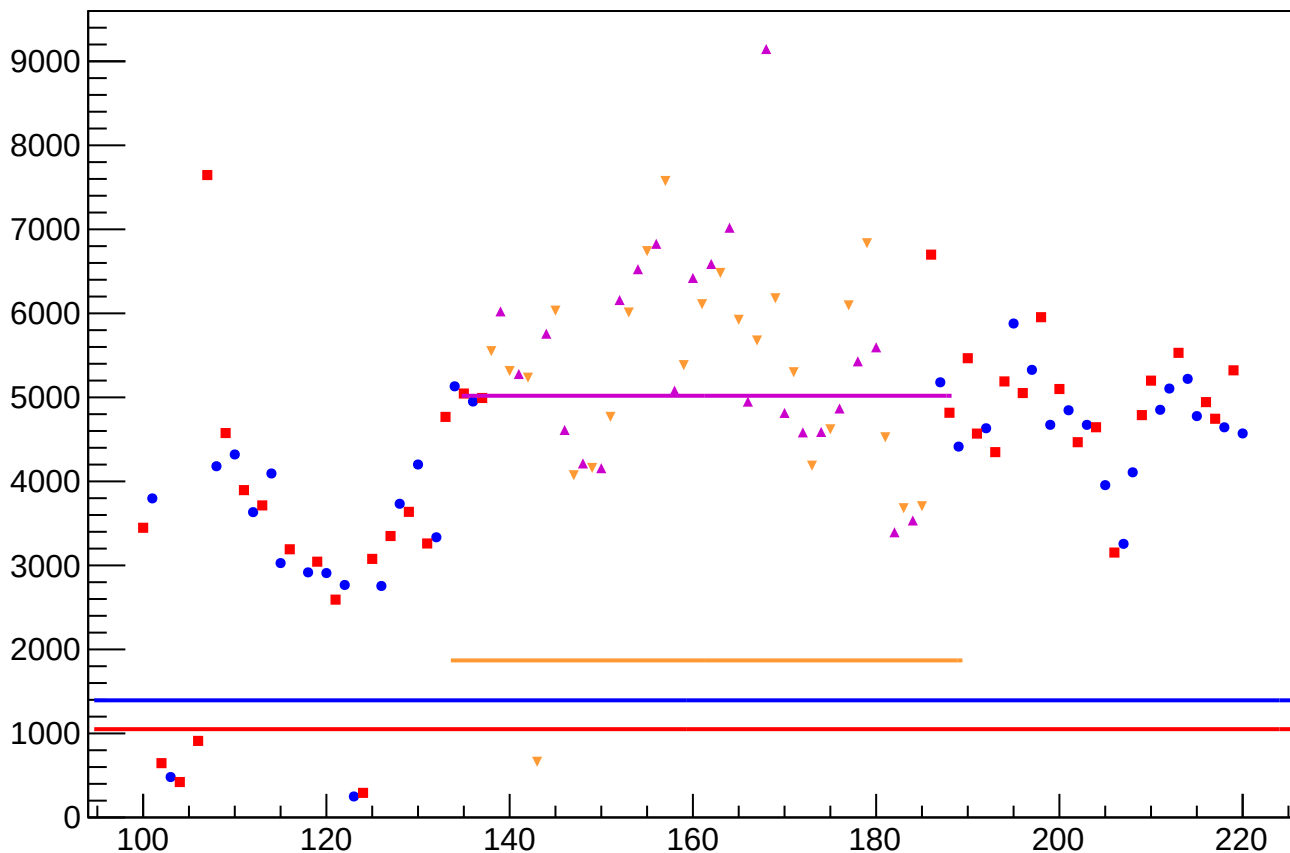
Right: 254.465 $\pm$ 318.309 χ^2 /NDF: 94.3/70

In: 441.279 $\pm$ 462.958 χ^2 /NDF:52.7/56

Out: -285.211 $\pm$ 348.223 χ^2 /NDF:89.3/61

All: -22.707 $\pm$ 278.288 χ^2 /NDF: 143.7/118

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1394.072+/-0.353

χ^2/NDF : 22069206.5/33

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 1190.214+/-0.225

χ^2/NDF : 47635876.9/70

Right Out: 1050.865+/-0.292

χ^2/NDF : 25005926.9/36

In: 1905.619+/-0.327

χ^2/NDF : 38500330.4/56

Out: 1287.412+/-0.246

χ^2/NDF : 47127350.4/61

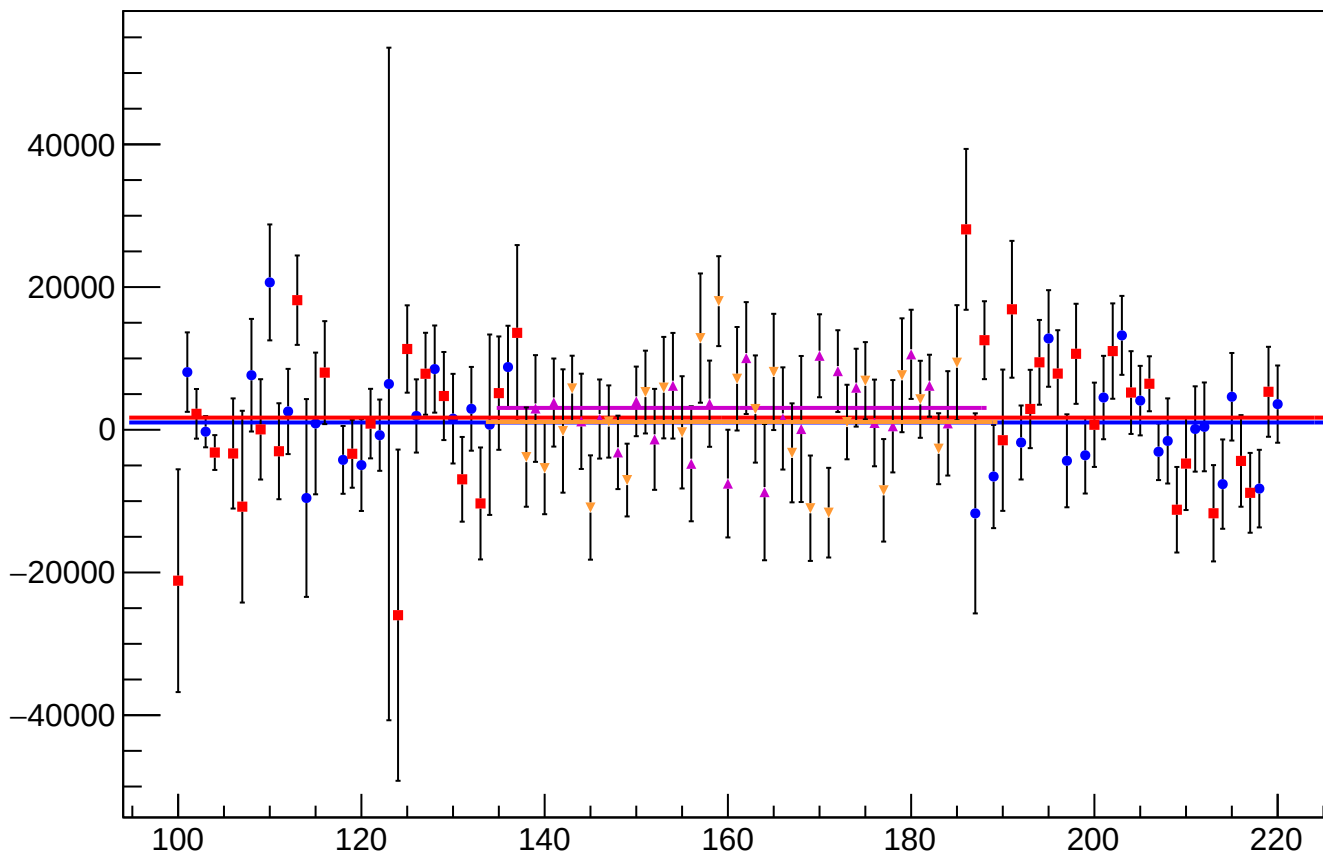
Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1510.790+/-0.197

χ^2/NDF : 87905343.8/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1023.588+/-957.505 χ^2/NDF : 33.8/33

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 1704.993+/-963.734 χ^2/NDF : 62.4/36

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

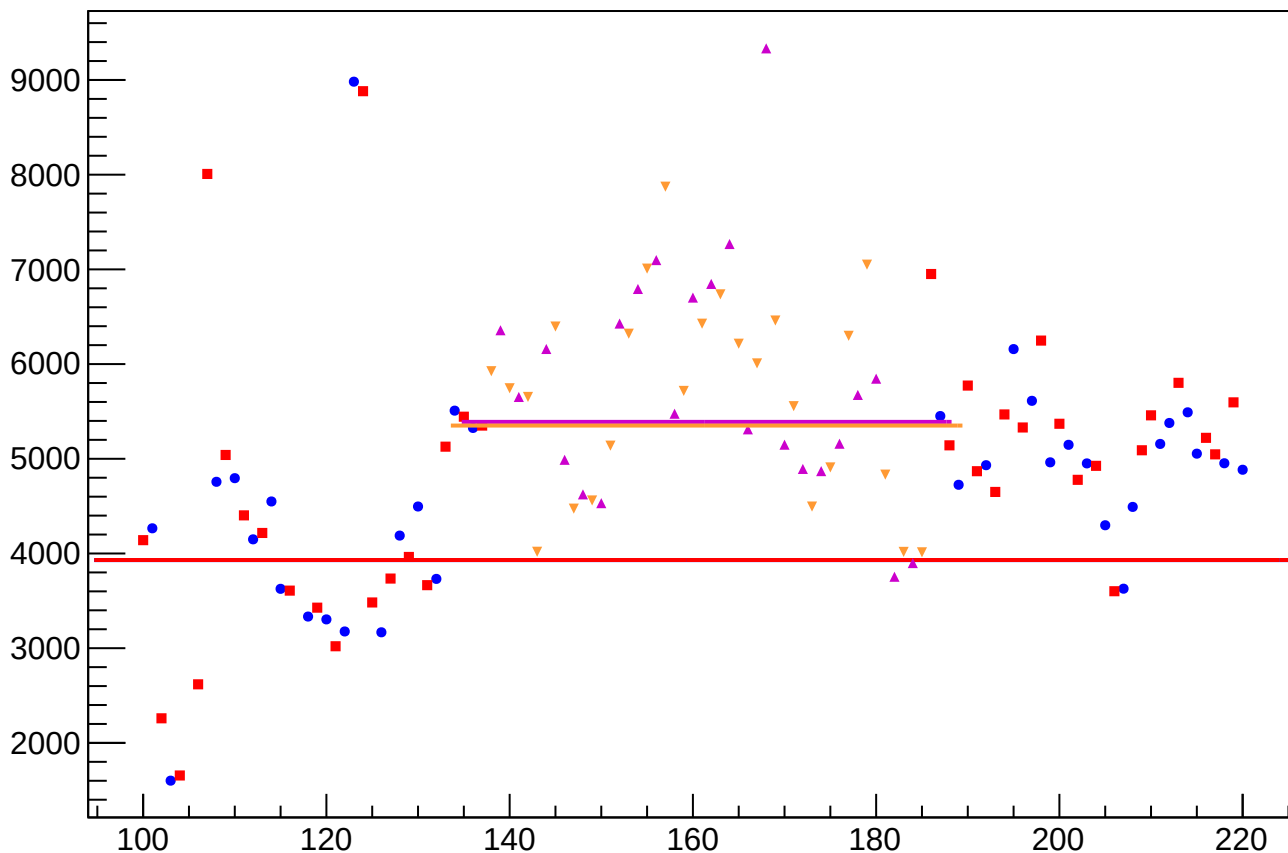
Right: 1362.081+/-679.250 χ^2/NDF : 96.4/70

In: 1728.604+/-774.695 χ^2/NDF : 47.9/56

Out: 1482.532+/-768.401 χ^2/NDF : 94.5/61

All: 1604.564+/-545.553 χ^2/NDF : 142.4/118

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3930.201 $\pm$ 0.677 χ^2 /NDF: 3916653.1/33

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3931.138 $\pm$ 0.676 χ^2 /NDF: 4602917.7/36

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF:1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

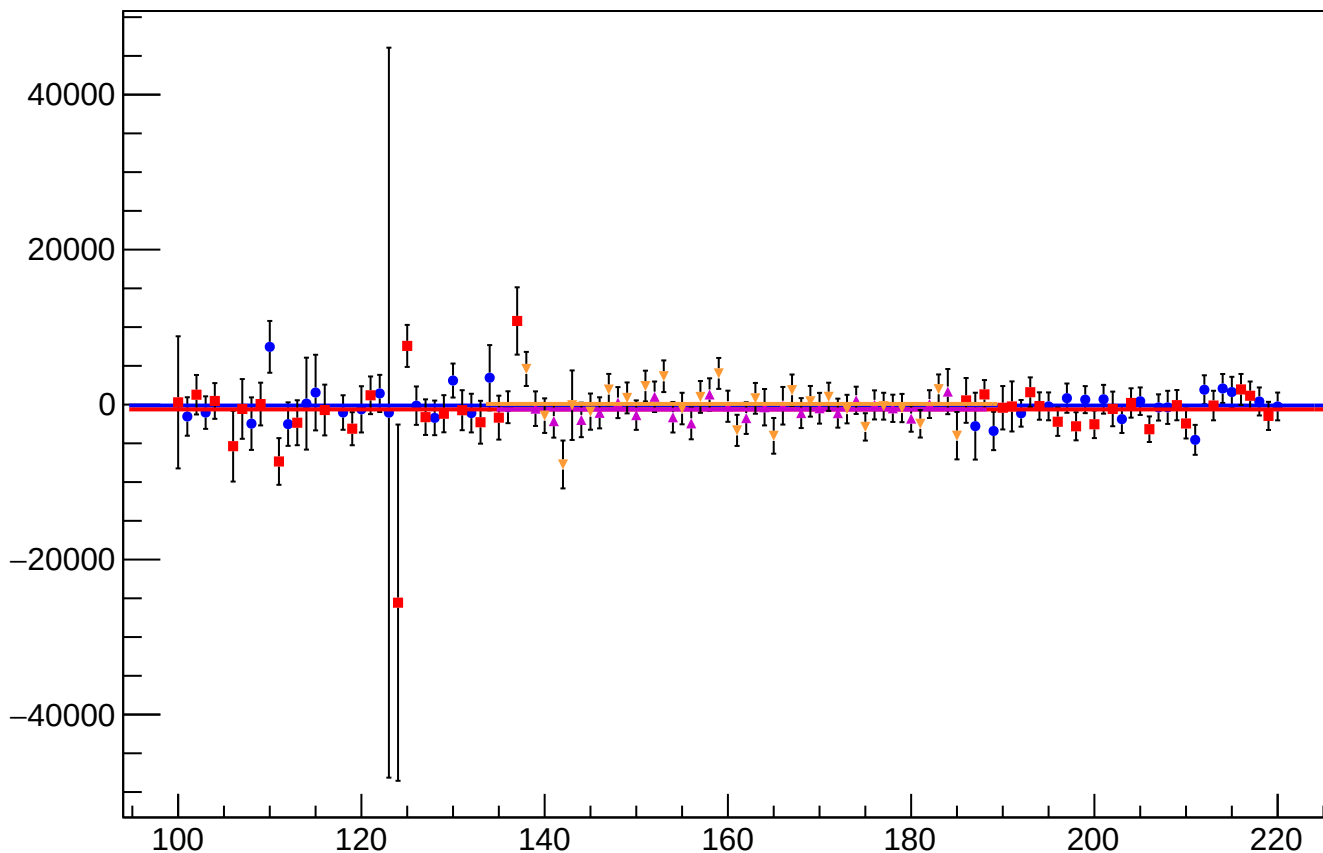
Right: 3930.671 $\pm$ 0.478 χ^2 /NDF: 8519571.8/70

In: 4434.312 $\pm$ 0.548 χ^2 /NDF:6831559.1/56

Out: 4442.895 $\pm$ 0.540 χ^2 /NDF:7434882.4/61

All: 4438.661 $\pm$ 0.385 χ^2 /NDF: 14266565.9/113

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -124.152+/-379.198 χ^2/NDF : 24.1/33

Left Out: 86.214+/-411.530 χ^2/NDF :36.0/24

Right Out: -622.249+/-380.201 χ^2/NDF : 39.6/36

Left In: -640.235+/-417.645 χ^2/NDF :6.2/22

Left: -271.653+/-293.134 χ^2/NDF : 43.7/47

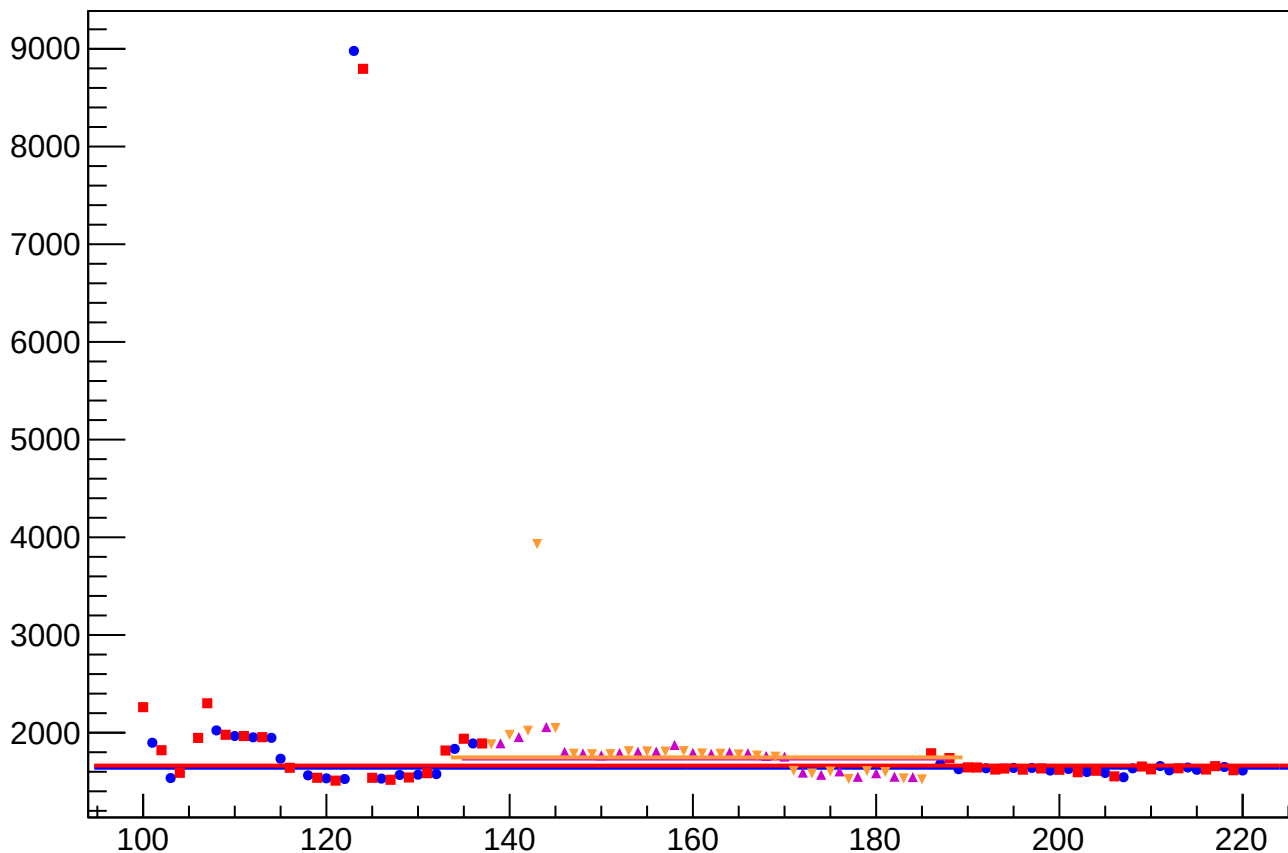
Right: -372.543+/-268.487 χ^2/NDF : 64.5/70

In: -357.351+/-280.744 χ^2/NDF :31.1/56

Out: -296.008+/-279.262 χ^2/NDF :77.2/61

All: -326.517+/-197.990 χ^2/NDF : 108.3/118

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1641.617 $\pm$ 0.268 χ^2 /NDF: 214398.6/33

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1663.252 $\pm$ 0.268 χ^2 /NDF: 436291.1/36

Left In: 1735.540 $\pm$ 0.295 χ^2 /NDF: 206766.6/22

Left: 1741.517 $\pm$ 0.207 χ^2 /NDF: 905766.2/47

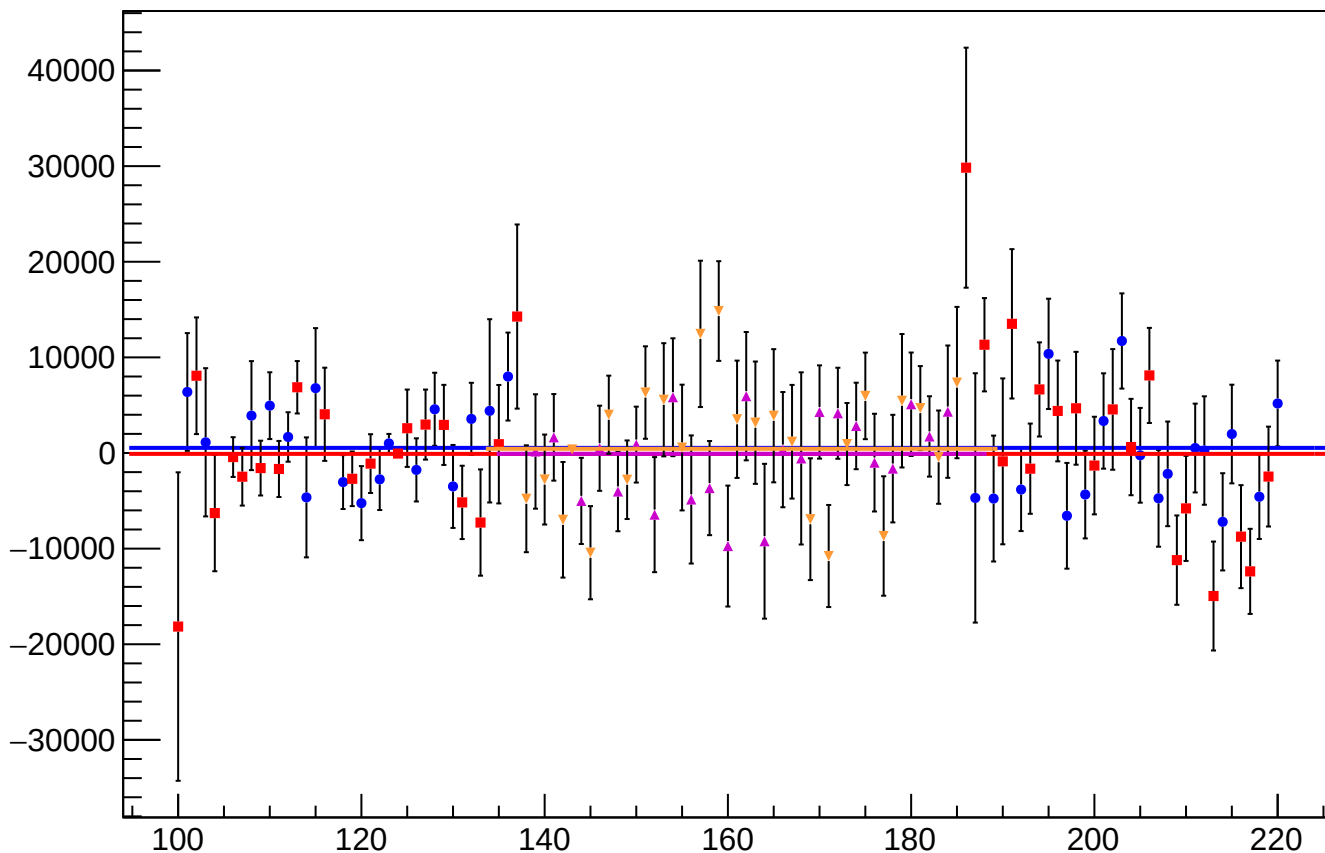
Right: 1652.422 $\pm$ 0.190 χ^2 /NDF: 653941.0/70

In: 1684.058 $\pm$ 0.199 χ^2 /NDF: 476608.8/56

Out: 1701.905 $\pm$ 0.197 χ^2 /NDF: 1179571.5/61

All: 1693.035 $\pm$ 0.140 χ^2 /NDF: 1660246.1/11

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 537.345 $\pm$ 615.221 χ^2 /NDF: 34.8/33

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: -91.358 $\pm$ 344.285 χ^2 /NDF: 65.6/36

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

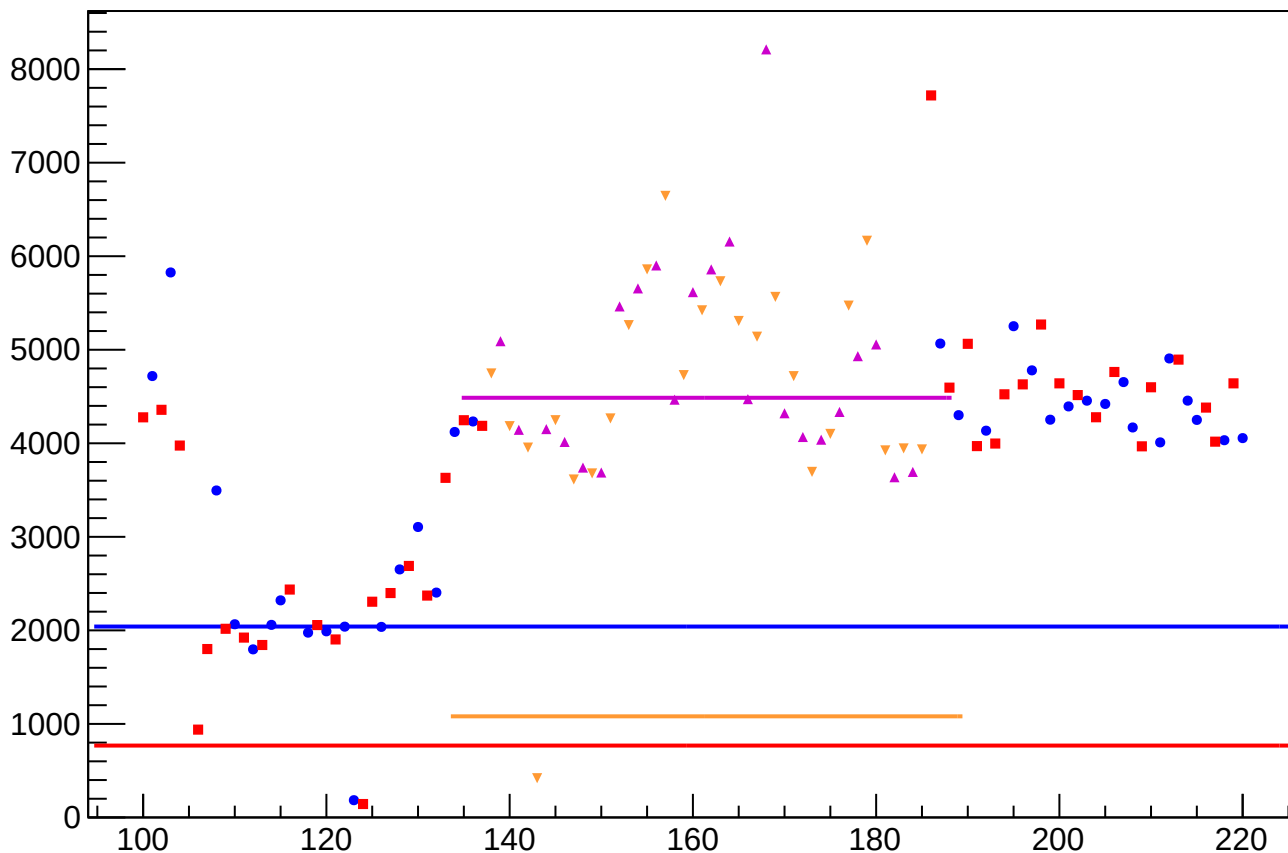
Right: 58.576 $\pm$ 300.440 χ^2 /NDF: 101.2/70

In: 387.149 $\pm$ 536.343 χ^2 /NDF:48.4/56

Out: 111.065 $\pm$ 271.223 χ^2 /NDF:100.4/61

All: 167.288 $\pm$ 242.036 χ^2 /NDF: 149.1/118

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 2040.949 $\pm$ 0.435

χ^2 /NDF: 15829809.8/33

Left: 1555.179 $\pm$ 0.289 χ^2 /NDF: 42294704.7/47

Right: 1071.964 $\pm$ 0.212 χ^2 /NDF: 50913313.5/70

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

In: 2627.863 $\pm$ 0.379 χ^2 /NDF: 24595965.9/56

Right Out: 768.512 $\pm$ 0.243

χ^2 /NDF: 28568412.6/36

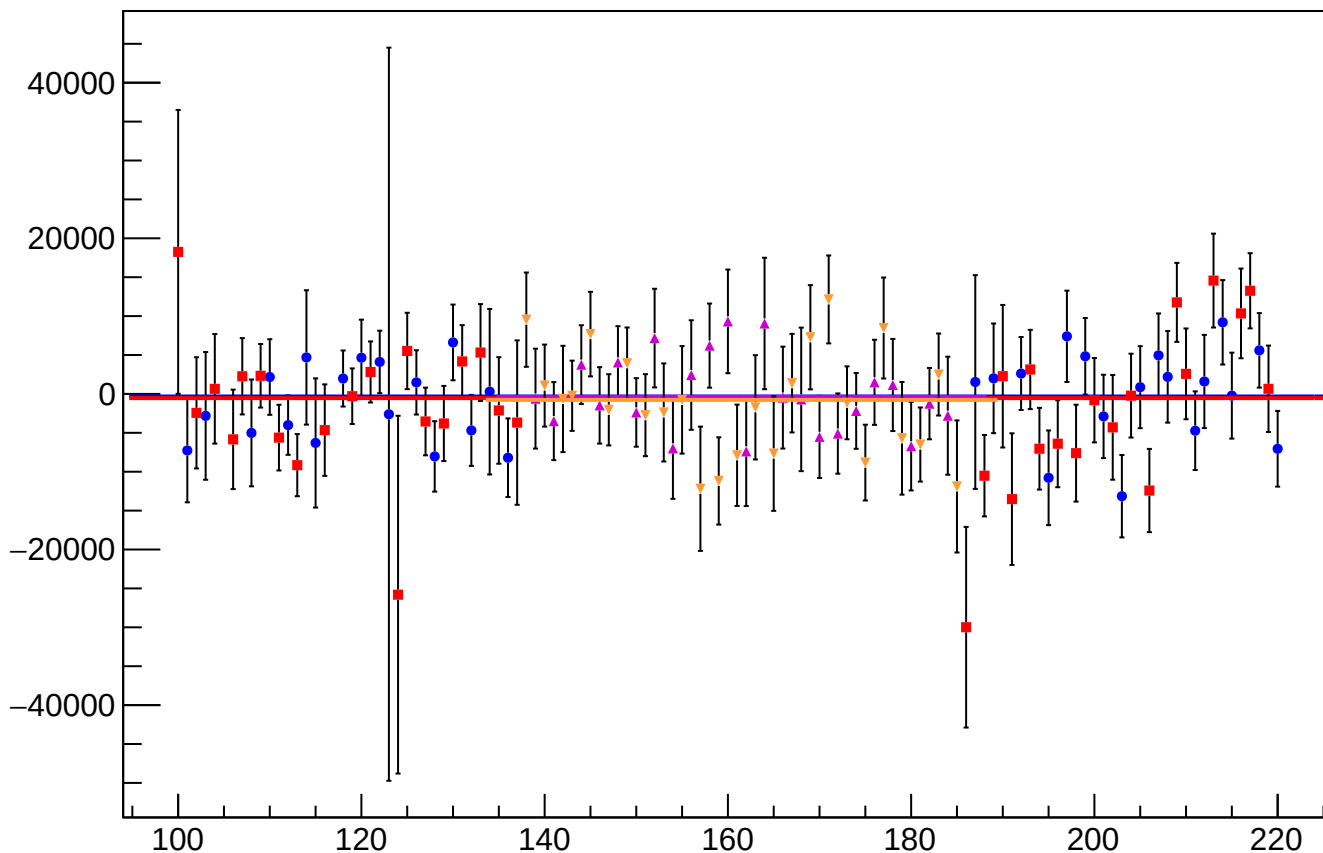
Out: 887.069 $\pm$ 0.192 χ^2 /NDF: 53649770.1/61

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

All: 1241.574 $\pm$ 0.171 χ^2 /NDF: 95023970.3/1

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -333.069 ± 919.768 χ^2/NDF : 35.8/33

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -540.007 ± 902.088 χ^2/NDF : 60.9/36

Left In: -388.944 ± 1186.300 χ^2/NDF : 14.2/22

Left: -583.764 ± 824.733 χ^2/NDF : 44.2/47

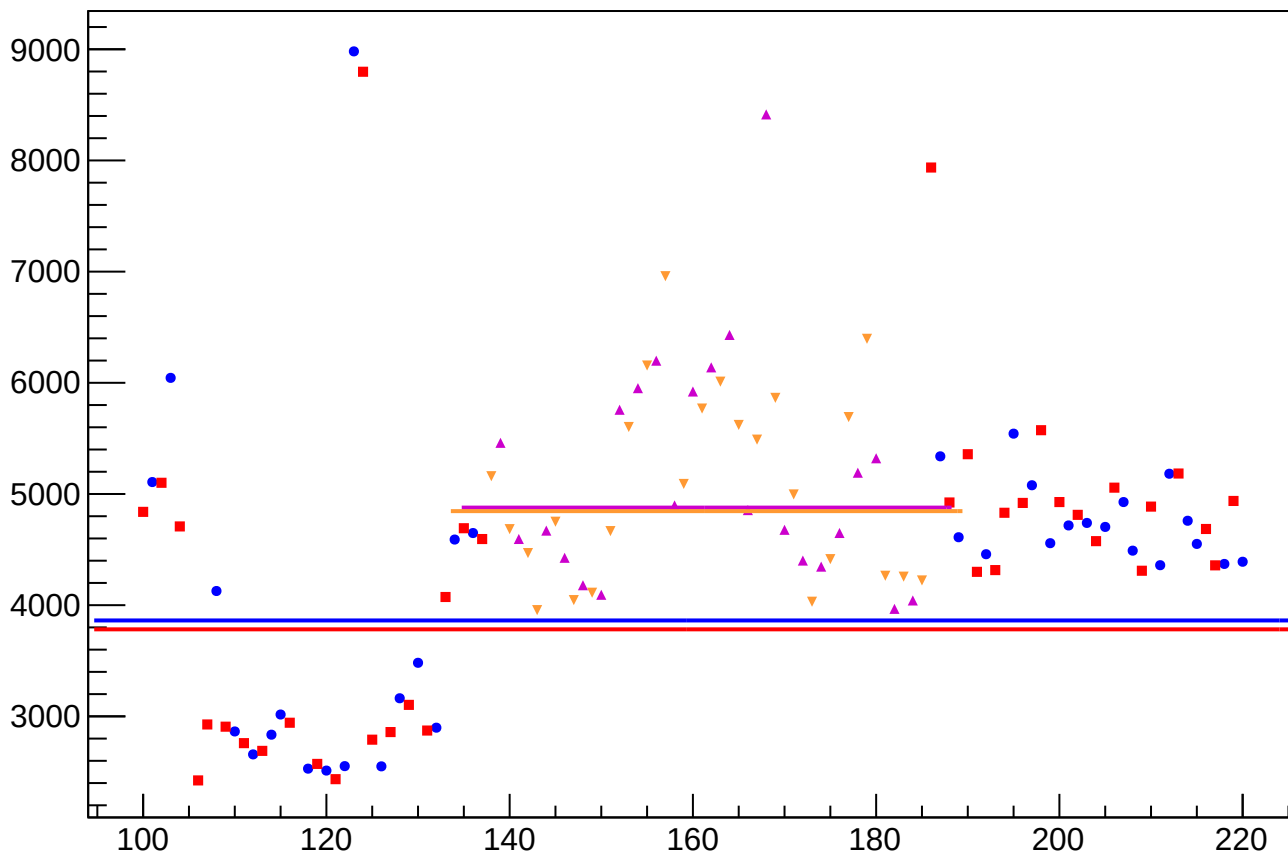
Right: -438.546 ± 644.032 χ^2/NDF : 96.8/70

In: -354.047 ± 726.884 χ^2/NDF : 50.0/56

Out: -626.341 ± 709.153 χ^2/NDF : 90.9/61

All: -493.555 ± 507.600 χ^2/NDF : 141.0/118

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3862.606 $\pm$ 0.650 χ^2 /NDF: 2480249.8/33

Left Out: 4845.779 $\pm$ 0.811 χ^2 /NDF: 909173.9/24

Right Out: 3782.551 $\pm$ 0.633 χ^2 /NDF: 3004227.9/36

Left In: 4877.456 $\pm$ 0.839 χ^2 /NDF: 958623.2/22

Left: 4861.089 $\pm$ 0.583 χ^2 /NDF: 1868533.9/47

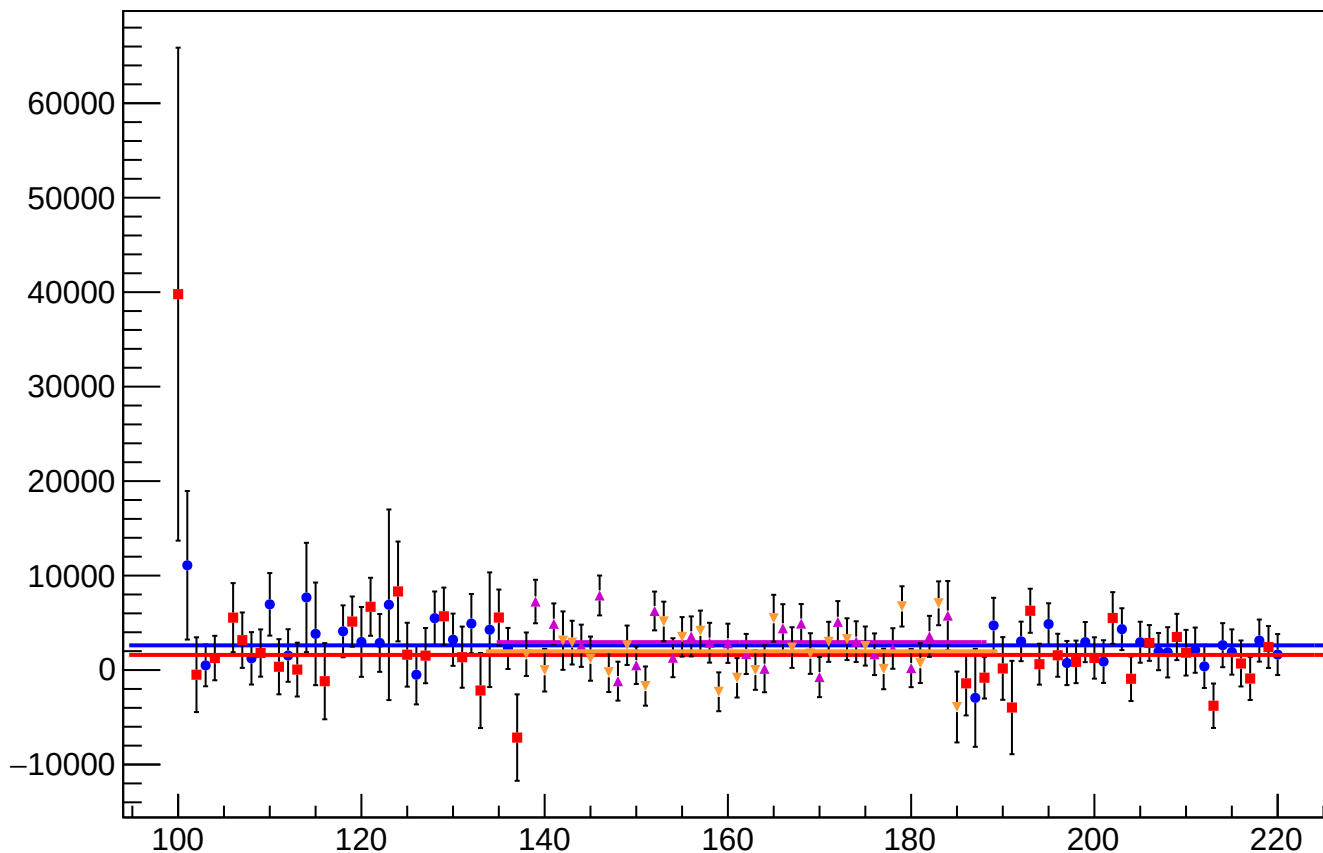
Right: 3821.513 $\pm$ 0.454 χ^2 /NDF: 5492255.1/70

In: 4243.620 $\pm$ 0.514 χ^2 /NDF: 4353026.6/56

Out: 4185.090 $\pm$ 0.499 χ^2 /NDF: 4980600.1/61

All: 4213.501 $\pm$ 0.358 χ^2 /NDF: 9340299.8/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2615.200 $\pm$ 456.564 χ^2 /NDF: 14.3/33

Left Out: 1985.469 $\pm$ 443.190 χ^2 /NDF: 32.4/24

Right Out: 1601.393 $\pm$ 451.066 χ^2 /NDF: 37.9/36

Left In: 2955.900 $\pm$ 454.551 χ^2 /NDF: 28.4/22

Left: 2458.406 $\pm$ 317.323 χ^2 /NDF: 63.2/47

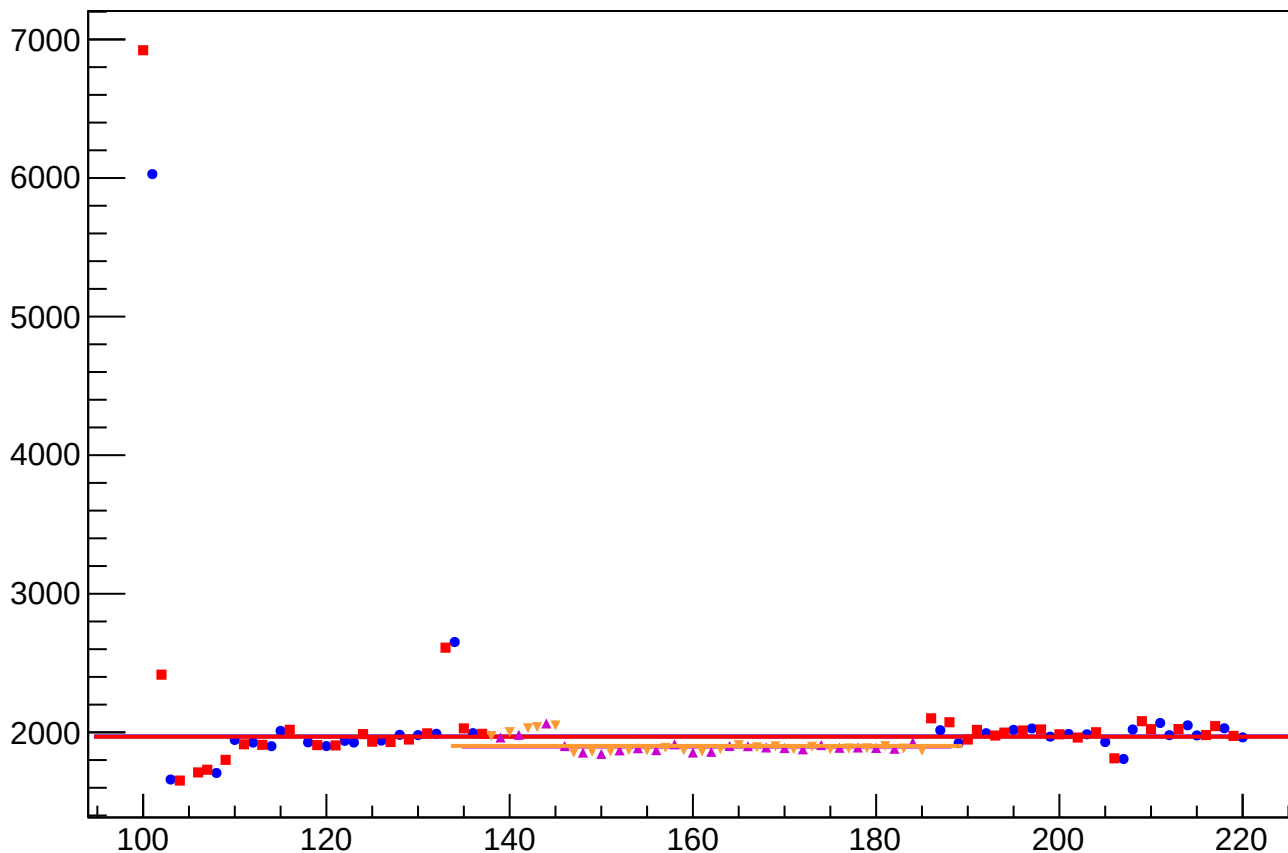
Right: 2102.155 $\pm$ 320.878 χ^2 /NDF: 54.8/70

In: 2786.303 $\pm$ 322.125 χ^2 /NDF: 43.0/56

Out: 1796.813 $\pm$ 316.130 χ^2 /NDF: 70.7/61

All: 2282.265 $\pm$ 225.628 χ^2 /NDF: 118.6/118

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1970.280+/-0.323 χ^2/NDF : 643937.1/33

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1968.536+/-0.319 χ^2/NDF : 257500.3/36

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

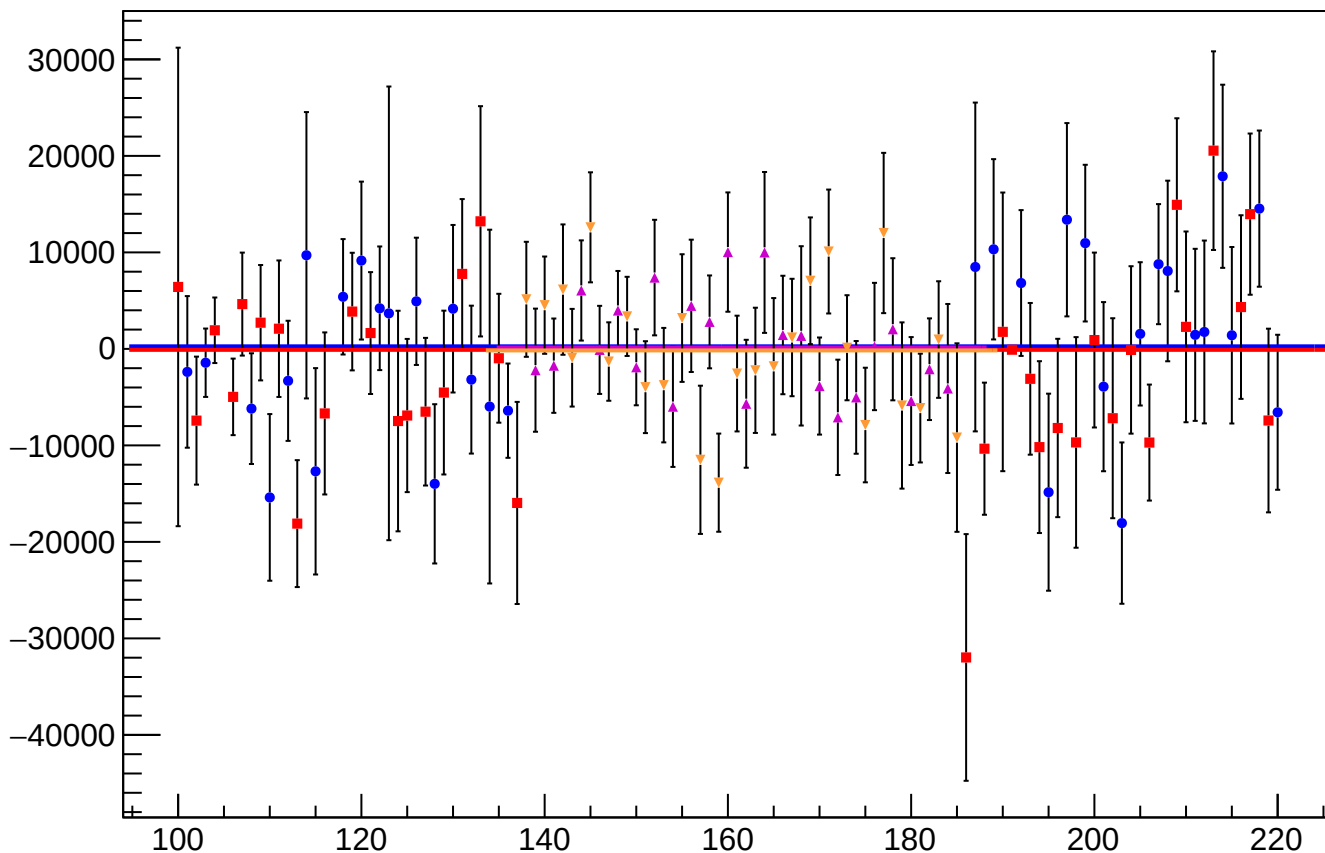
Right: 1969.396+/-0.227 χ^2/NDF : 901452.2/70

In: 1933.707+/-0.228 χ^2/NDF : 690671.1/56

Out: 1934.652+/-0.223 χ^2/NDF : 310186.3/61

All: 1934.188+/-0.160 χ^2/NDF : 1000866.1/11

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 264.513 $\pm$ 1303.921 χ^2 /NDF: 38.0/33

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -99.164 $\pm$ 109.506 χ^2 /NDF: 44.6/36

Left In: 139.000 $\pm$ 1190.889 χ^2 /NDF:14.7/22

Left: -12.420 $\pm$ 833.090 χ^2 /NDF: 44.2/47

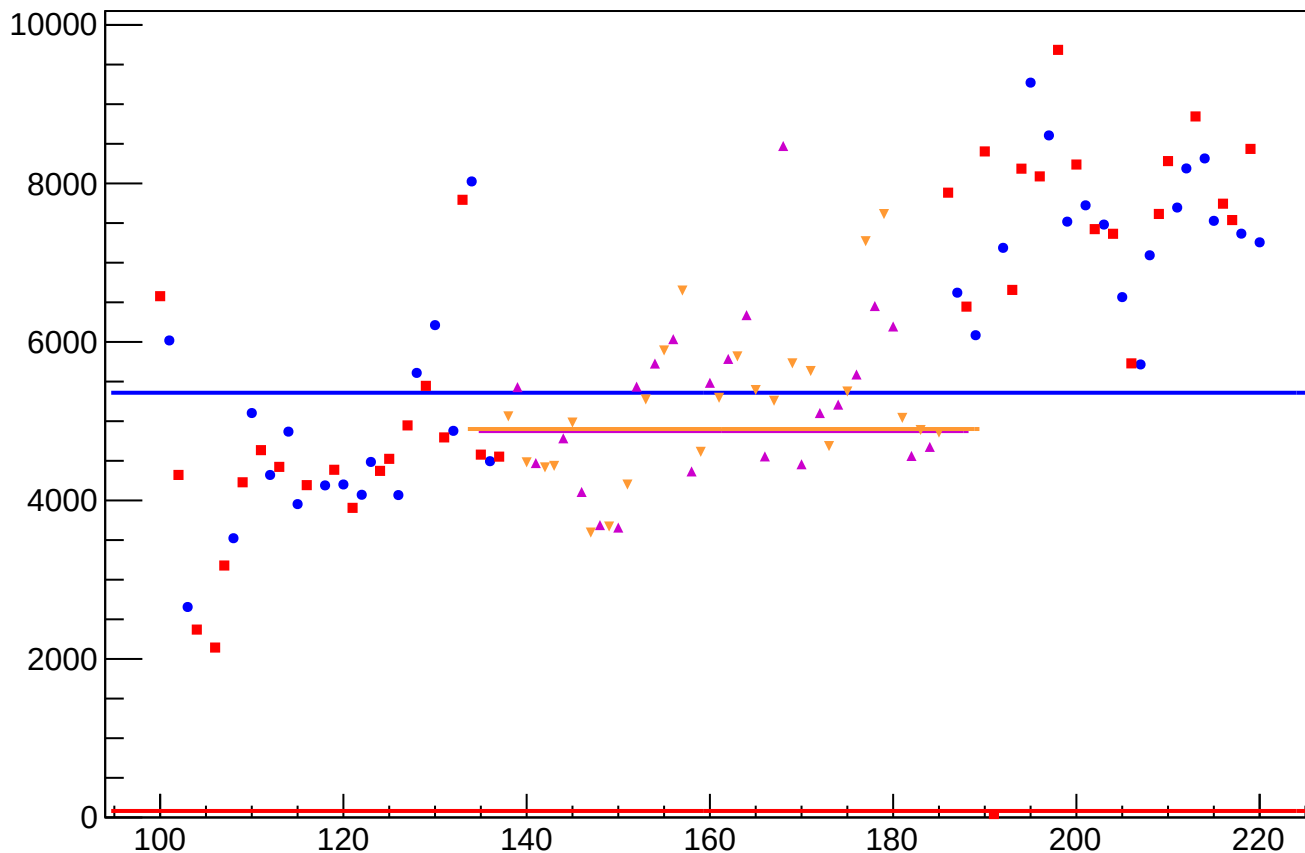
Right: -96.617 $\pm$ 109.122 χ^2 /NDF: 82.7/70

In: 196.081 $\pm$ 879.336 χ^2 /NDF:52.8/56

Out: -99.674 $\pm$ 109.027 χ^2 /NDF:74.1/61

All: -95.197 $\pm$ 108.198 χ^2 /NDF: 127.0/118

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5358.981 $\pm$ 0.922 χ^2 /NDF: 3933644.7/33

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 81.904 $\pm$ 0.077 χ^2 /NDF: 37282169.6/36

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

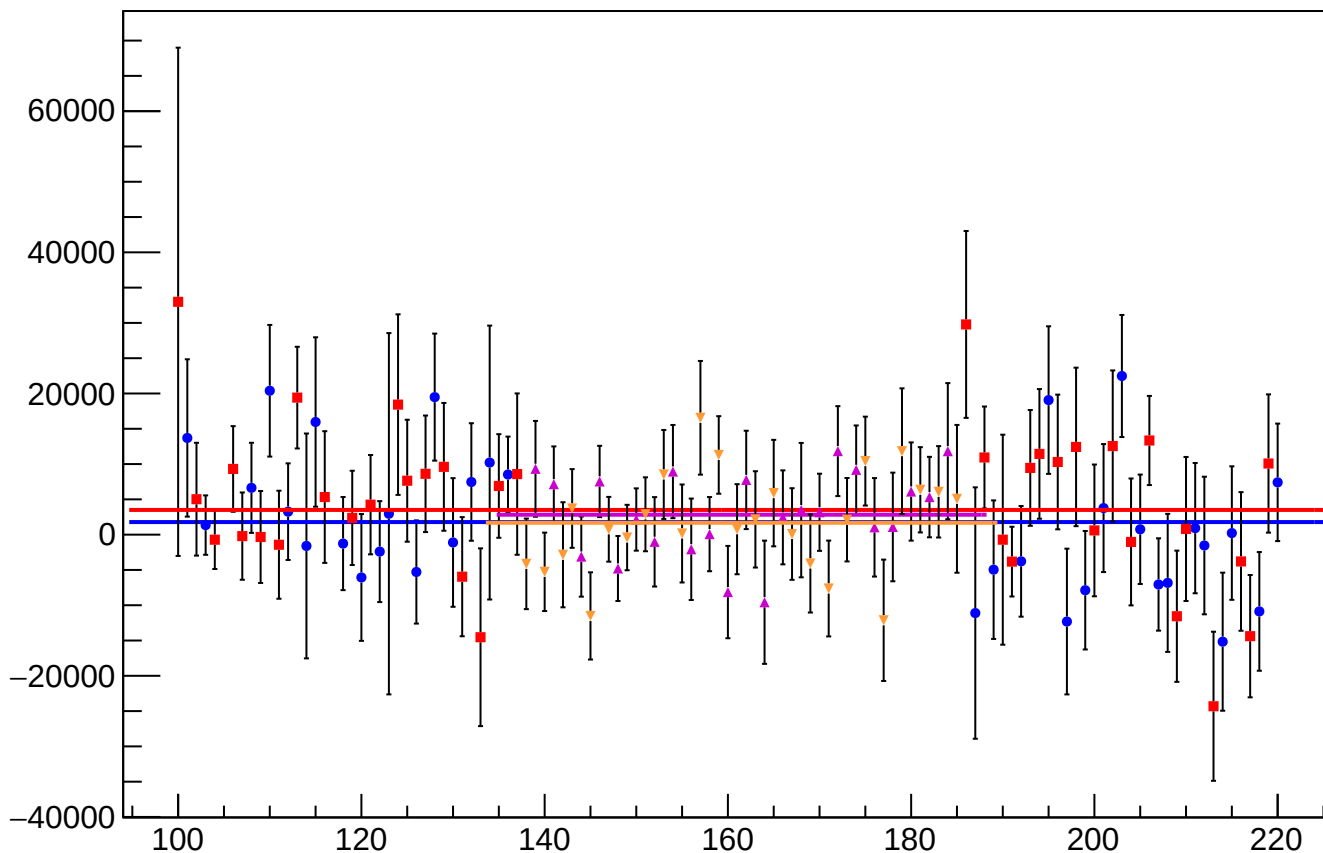
Right: 118.862 $\pm$ 0.077 χ^2 /NDF: 73744164.1/70

In: 5095.169 $\pm$ 0.622 χ^2 /NDF: 5313001.4/56

Out: 124.052 $\pm$ 0.077 χ^2 /NDF: 72298003.4/61

All: 199.315 $\pm$ 0.077 χ^2 /NDF: 140562009.9/121

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1783.329+/-1421.274 χ^2/NDF : 37.3/33

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 3501.460+/-1321.511 χ^2/NDF : 43.0/36

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

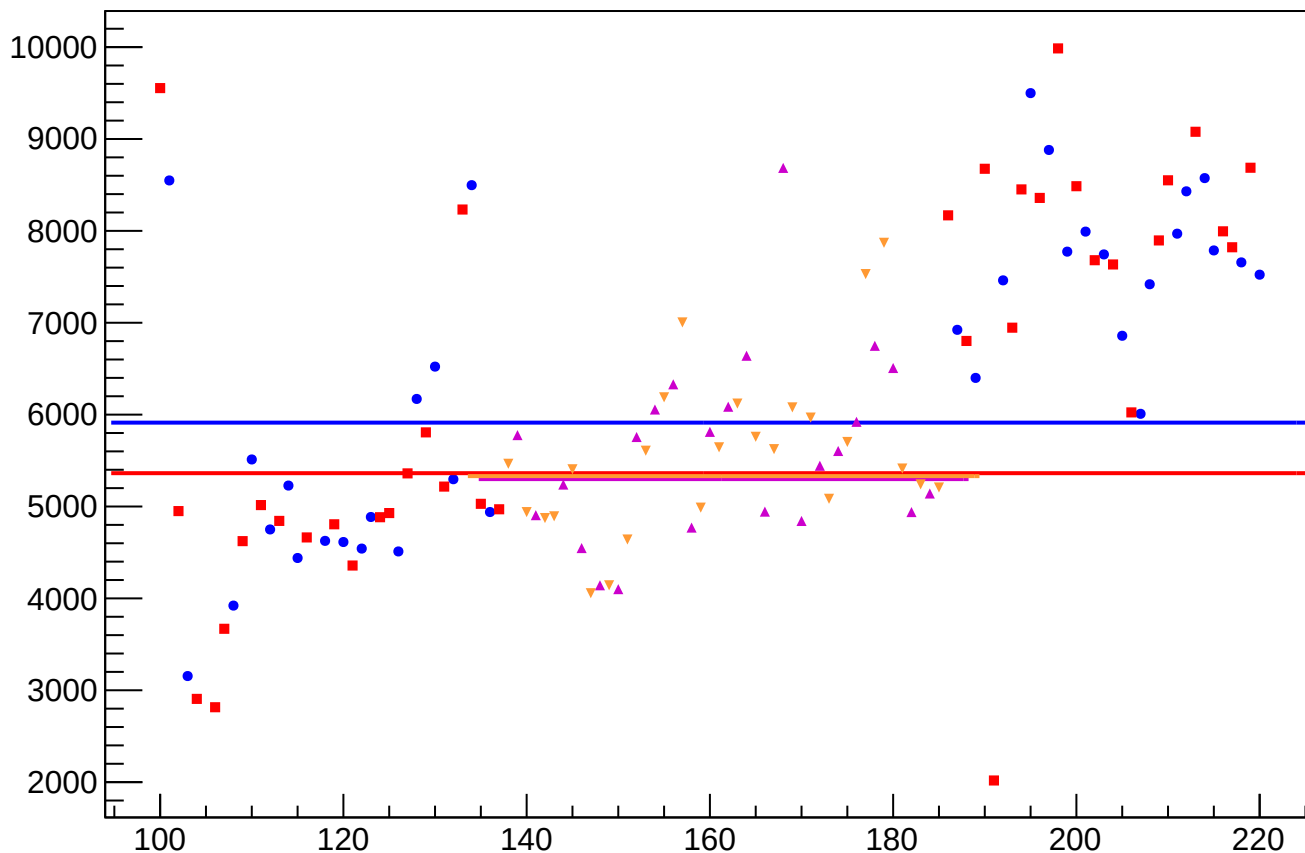
Right: 2704.805+/-967.798 χ^2/NDF : 81.1/70

In: 2354.611+/-954.570 χ^2/NDF : 55.6/56

Out: 2551.960+/-912.550 χ^2/NDF : 69.3/61

All: 2457.725+/-659.625 χ^2/NDF : 125.0/118

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5912.957+/-1.005 χ^2/NDF : 3132474.1/33

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 5362.788+/-0.931 χ^2/NDF : 5131025.6/36

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

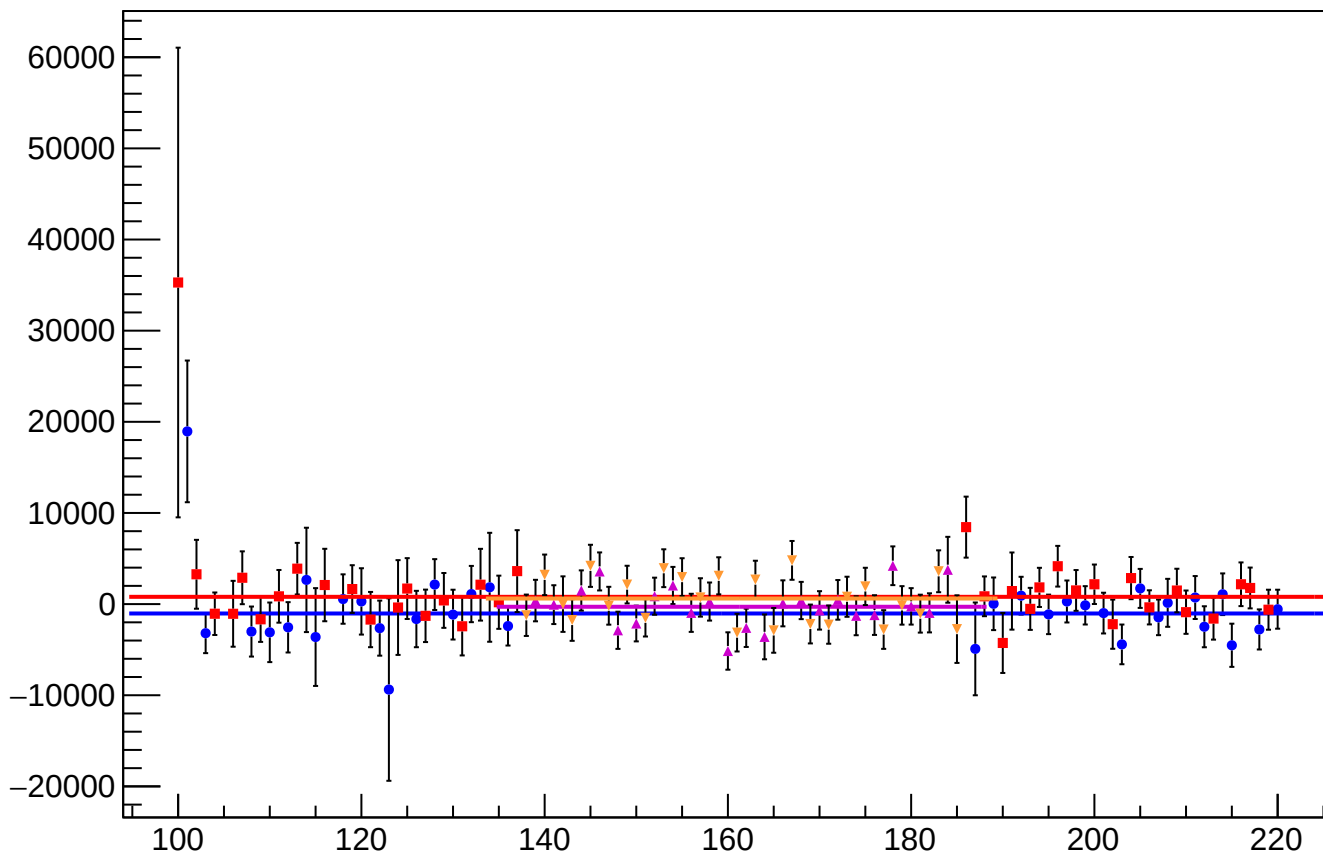
Right: 5616.956+/-0.683 χ^2/NDF : 8424736.0/70

In: 5575.579+/-0.675 χ^2/NDF : 4293801.7/56

Out: 5346.068+/-0.644 χ^2/NDF : 5999705.4/61

All: 5455.475+/-0.466 χ^2/NDF : 10354010.1/131

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1029.987 ± 450.606 $\chi^2/\text{NDF}: 24.5/33$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 798.149 ± 444.568 $\chi^2/\text{NDF}: 24.9/36$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

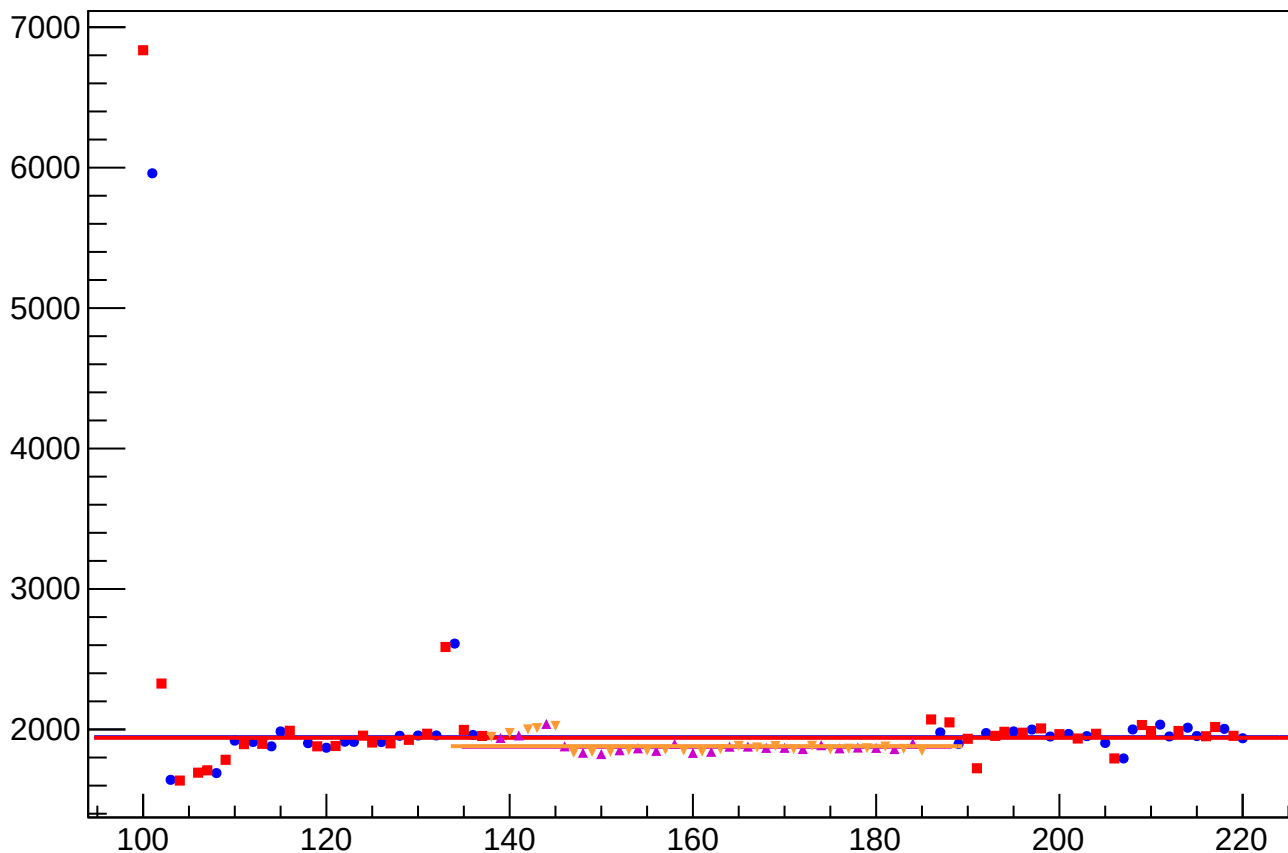
Right: -103.587 ± 316.470 $\chi^2/\text{NDF}: 57.7/70$

In: -660.653 ± 318.262 $\chi^2/\text{NDF}: 49.5/56$

Out: 703.905 ± 312.104 $\chi^2/\text{NDF}: 57.7/61$

All: 34.953 ± 222.836 $\chi^2/\text{NDF}: 116.5/118$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1944.732 $\pm$ 0.319 χ^2 /NDF: 639868.0/33

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1940.678 $\pm$ 0.314 χ^2 /NDF: 253629.5/36

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF: 20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

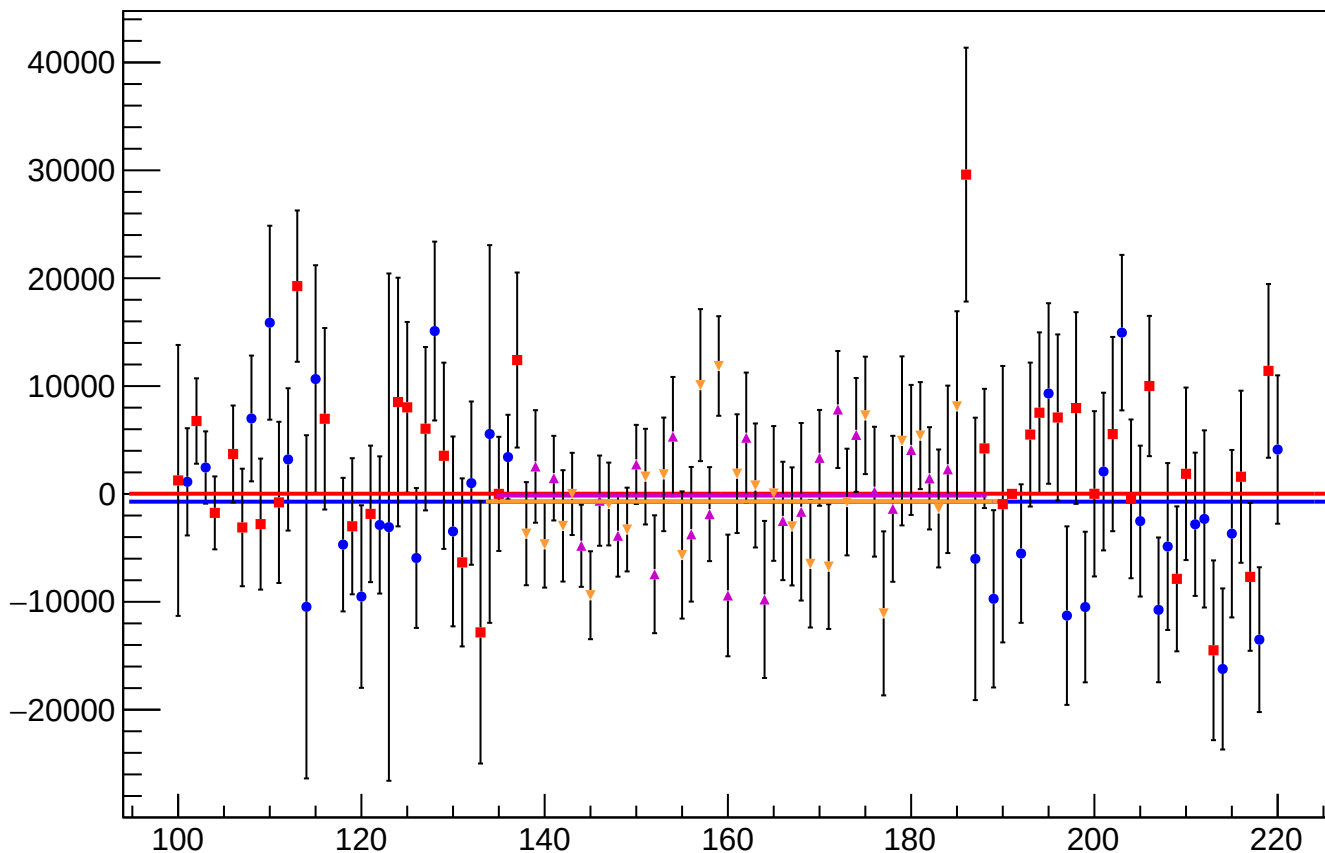
Right: 1942.676 $\pm$ 0.224 χ^2 /NDF: 893579.6/70

In: 1910.631 $\pm$ 0.225 χ^2 /NDF: 683224.8/56

Out: 1910.341 $\pm$ 0.221 χ^2 /NDF: 300695.7/61

All: 1910.483 $\pm$ 0.158 χ^2 /NDF: 983921.3/118

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -715.621 ± 1180.188 $\chi^2/\text{NDF}: 38.5/33$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 22.226 ± 85.763 $\chi^2/\text{NDF}: 40.2/36$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

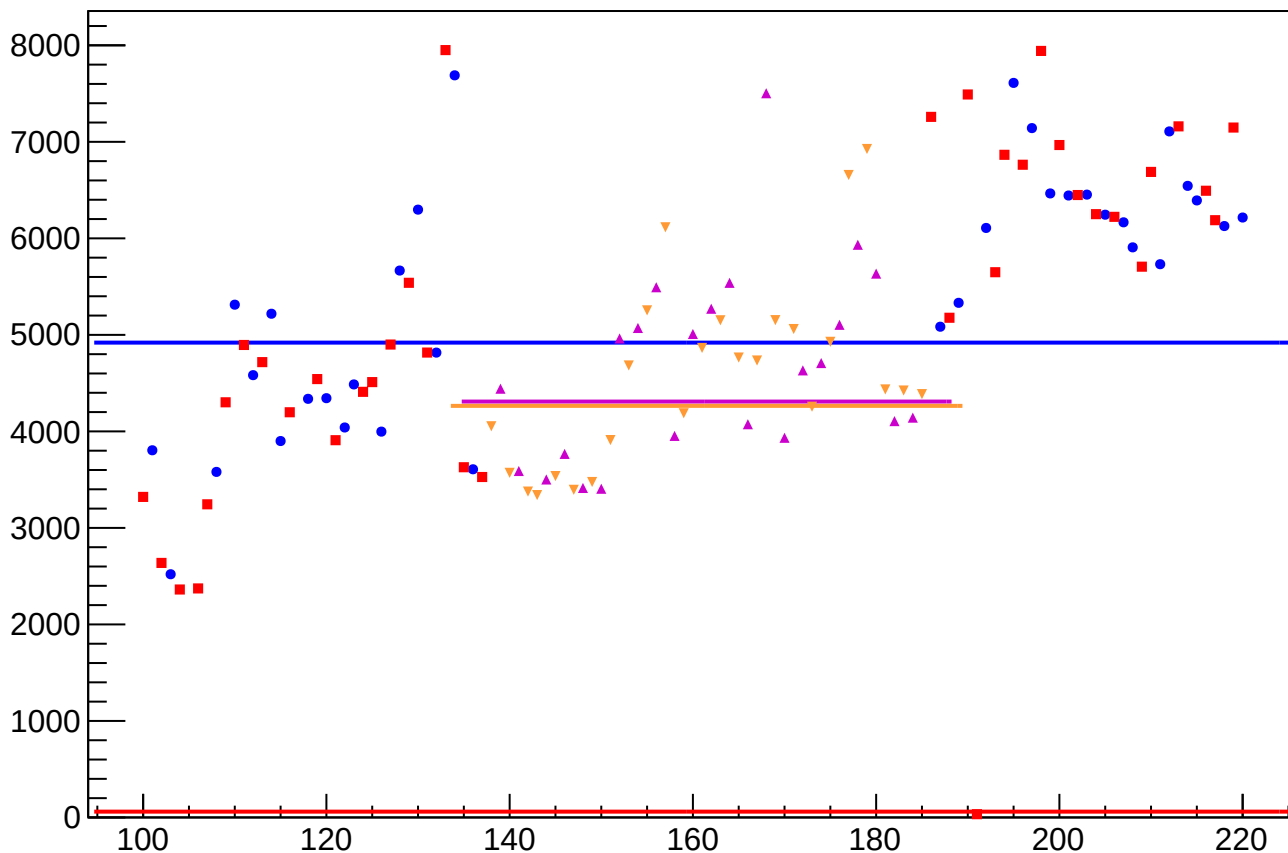
Right: 18.350 ± 85.538 $\chi^2/\text{NDF}: 79.1/70$

In: -401.150 ± 785.989 $\chi^2/\text{NDF}: 55.5/56$

Out: 17.078 ± 85.461 $\chi^2/\text{NDF}: 67.8/61$

All: 12.192 ± 84.960 $\chi^2/\text{NDF}: 123.6/118$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4919.769+/-0.835 χ^2/NDF : 3055568.8/33

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 60.351+/-0.061 χ^2/NDF : 37471355.1/36

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

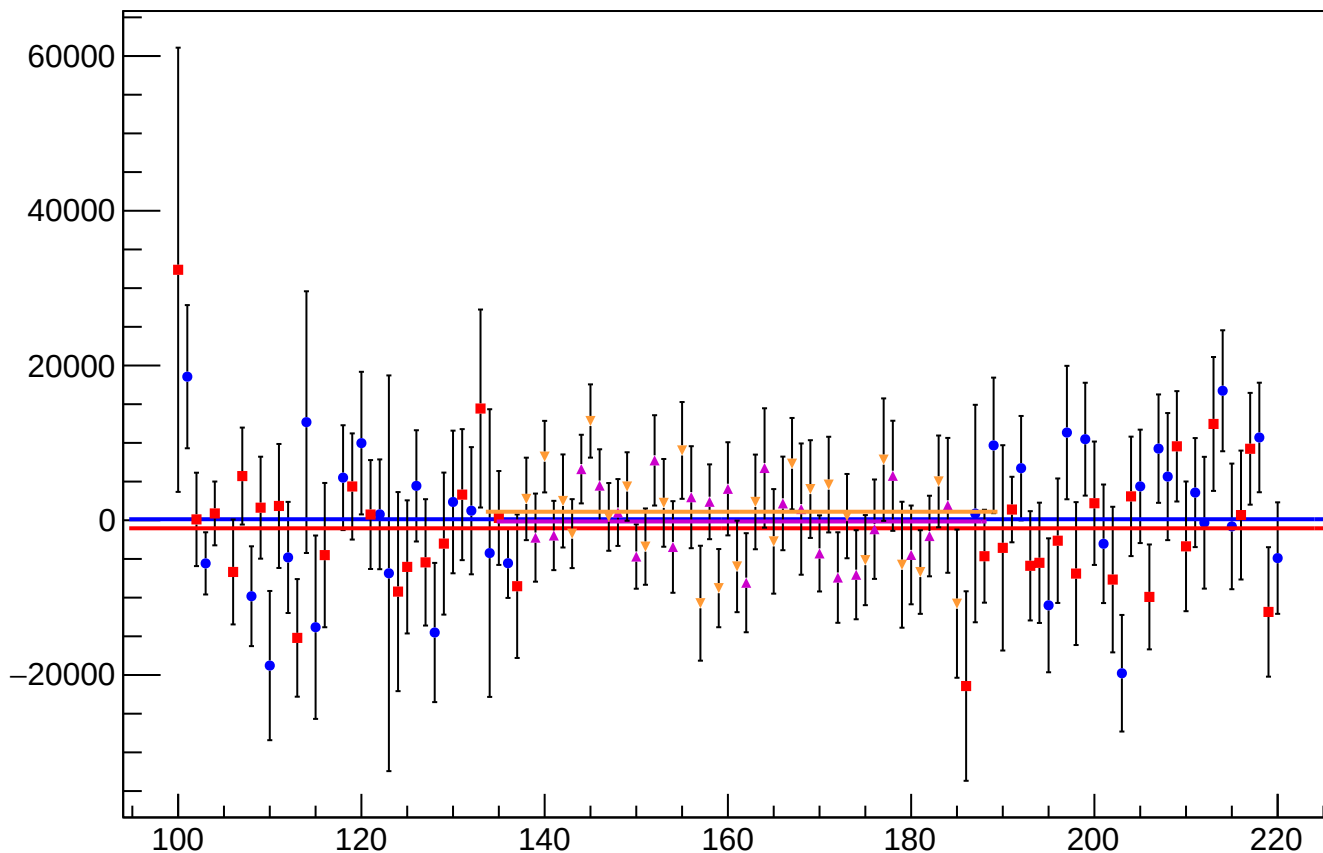
Right: 85.878+/-0.060 χ^2/NDF : 74256352.2/70

In: 4579.918+/-0.556 χ^2/NDF : 4658738.2/56

Out: 89.995+/-0.060 χ^2/NDF : 72714063.5/61

All: 142.456+/-0.060 χ^2/NDF : 141874441.4/121

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 132.680 $\pm$ 1309.795 χ^2 /NDF: 45.8/33

Left Out: 1102.204 $\pm$ 1126.663 χ^2 /NDF:28.6/24

Right Out: -1039.648 $\pm$ 1222.485 χ^2 /NDF: 27.4/36

Left In: -158.683 $\pm$ 1161.507 χ^2 /NDF:15.5/22

Left: 490.957 $\pm$ 808.709 χ^2 /NDF: 44.7/47

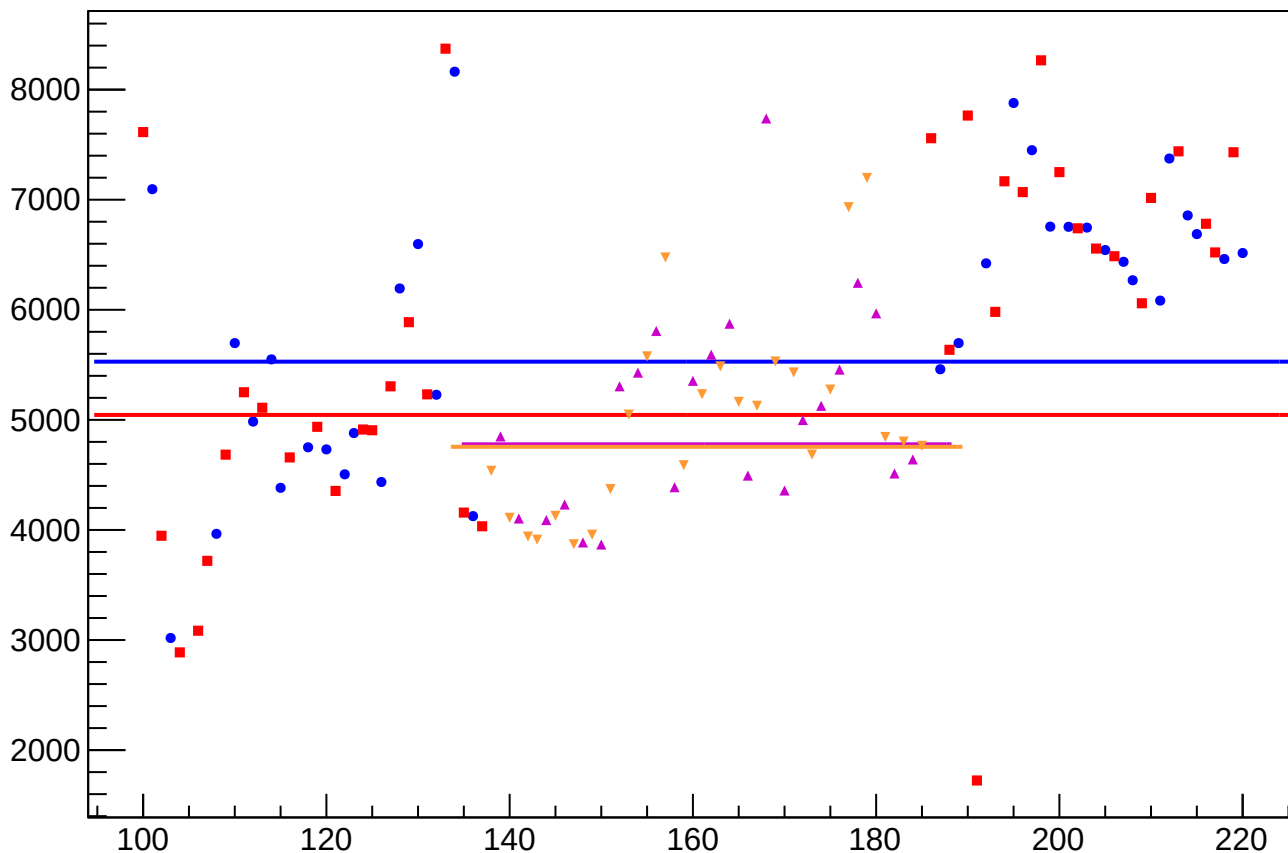
Right: -493.857 $\pm$ 893.701 χ^2 /NDF: 73.6/70

In: -30.422 $\pm$ 869.028 χ^2 /NDF:61.4/56

Out: 118.499 $\pm$ 828.478 χ^2 /NDF:57.6/61

All: 47.594 $\pm$ 599.646 χ^2 /NDF: 119.0/118

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5528.780 ± 0.926 $\chi^2/\text{NDF}: 2199670.1/33$

Left Out: 4755.383 ± 0.797 $\chi^2/\text{NDF}: 953328.0/24$

Right Out: 5044.843 ± 0.862 $\chi^2/\text{NDF}: 4164296.0/36$

Left In: 4777.831 ± 0.821 $\chi^2/\text{NDF}: 950291.2/22$

Left: 4766.265 ± 0.572 $\chi^2/\text{NDF}: 1904004.1/47$

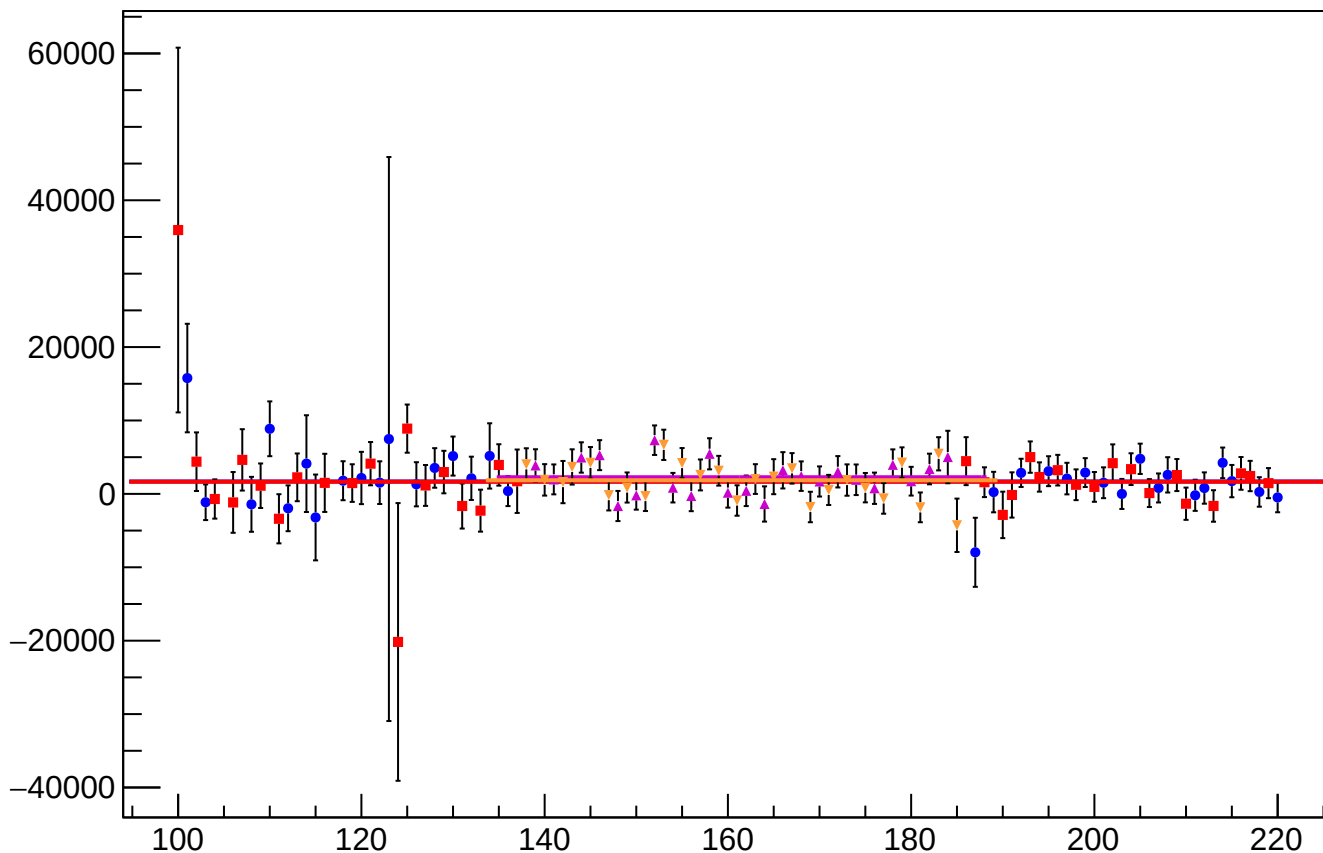
Right: 5269.443 ± 0.631 $\chi^2/\text{NDF}: 6510276.8/70$

In: 5108.407 ± 0.614 $\chi^2/\text{NDF}: 3517978.7/56$

Out: 4888.745 ± 0.585 $\chi^2/\text{NDF}: 5178446.1/61$

All: 4993.185 ± 0.424 $\chi^2/\text{NDF}: 8763452.3/11$

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1687.627 $\pm$ 435.126 χ^2 /NDF: 28.0/33

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1655.410 $\pm$ 432.024 χ^2 /NDF: 30.8/36

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

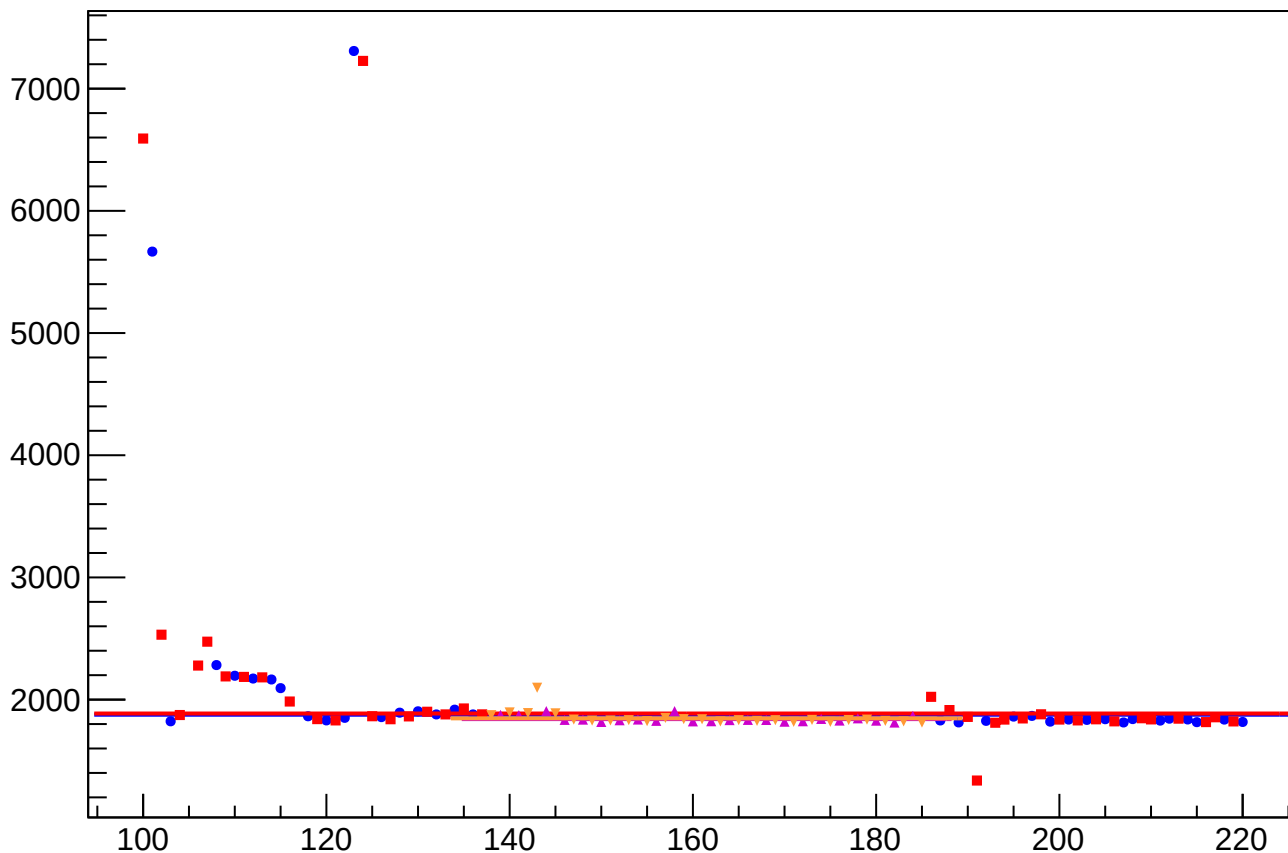
Right: 1671.403 $\pm$ 306.578 χ^2 /NDF: 58.8/70

In: 1973.684 $\pm$ 309.982 χ^2 /NDF:55.7/56

Out: 1756.234 $\pm$ 305.116 χ^2 /NDF:60.9/61

All: 1863.239 $\pm$ 217.450 χ^2 /NDF: 116.9/118

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1876.320+/-0.308 χ^2/NDF : 645937.7/33

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1886.245+/-0.305 χ^2/NDF : 481528.0/36

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

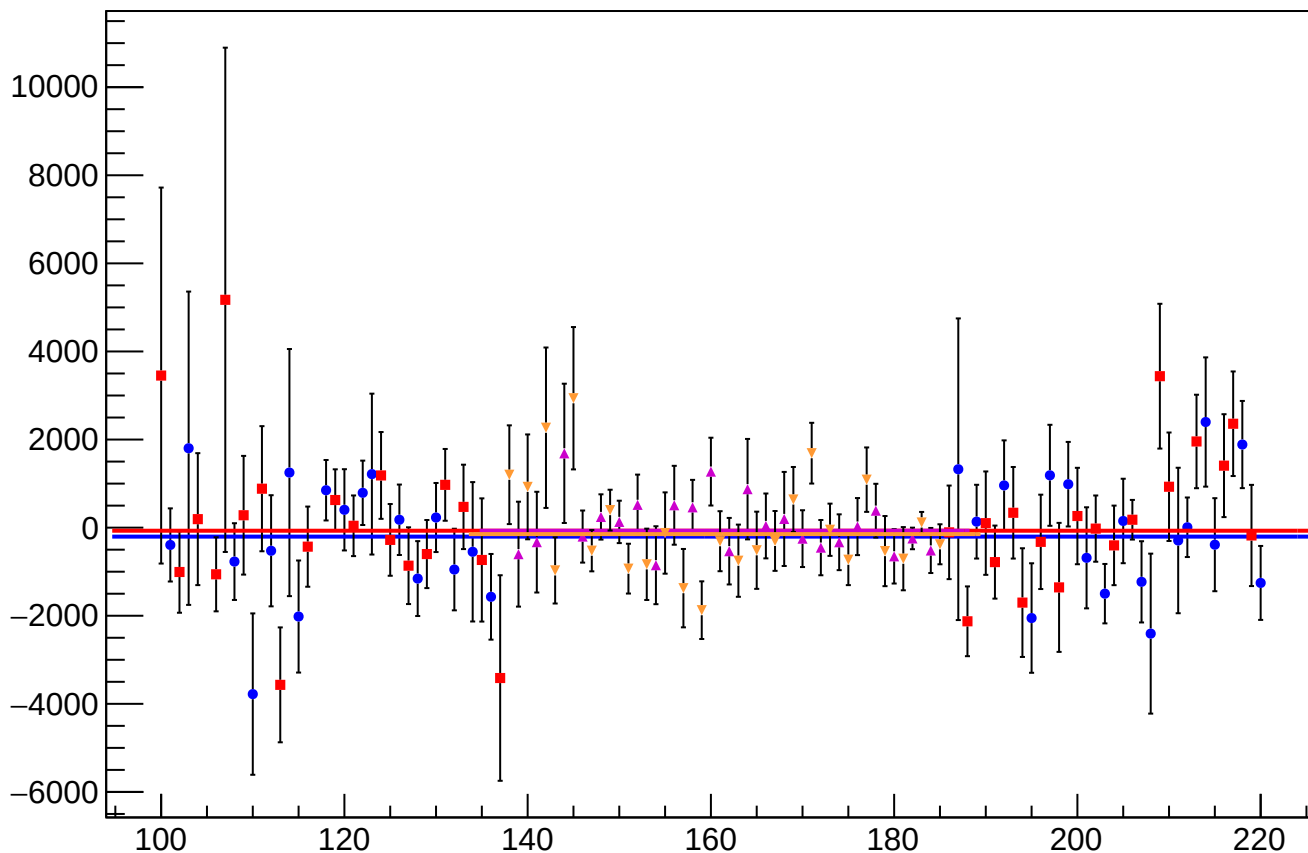
Right: 1881.318+/-0.217 χ^2/NDF : 1127989.7/70

In: 1858.700+/-0.219 χ^2/NDF : 659337.6/56

Out: 1866.376+/-0.216 χ^2/NDF : 517271.5/61

All: 1862.598+/-0.154 χ^2/NDF : 1177232.0/11

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -203.593+/-171.425 χ^2/NDF : 39.6/33

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -69.816+/-159.302 χ^2/NDF : 45.5/36

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

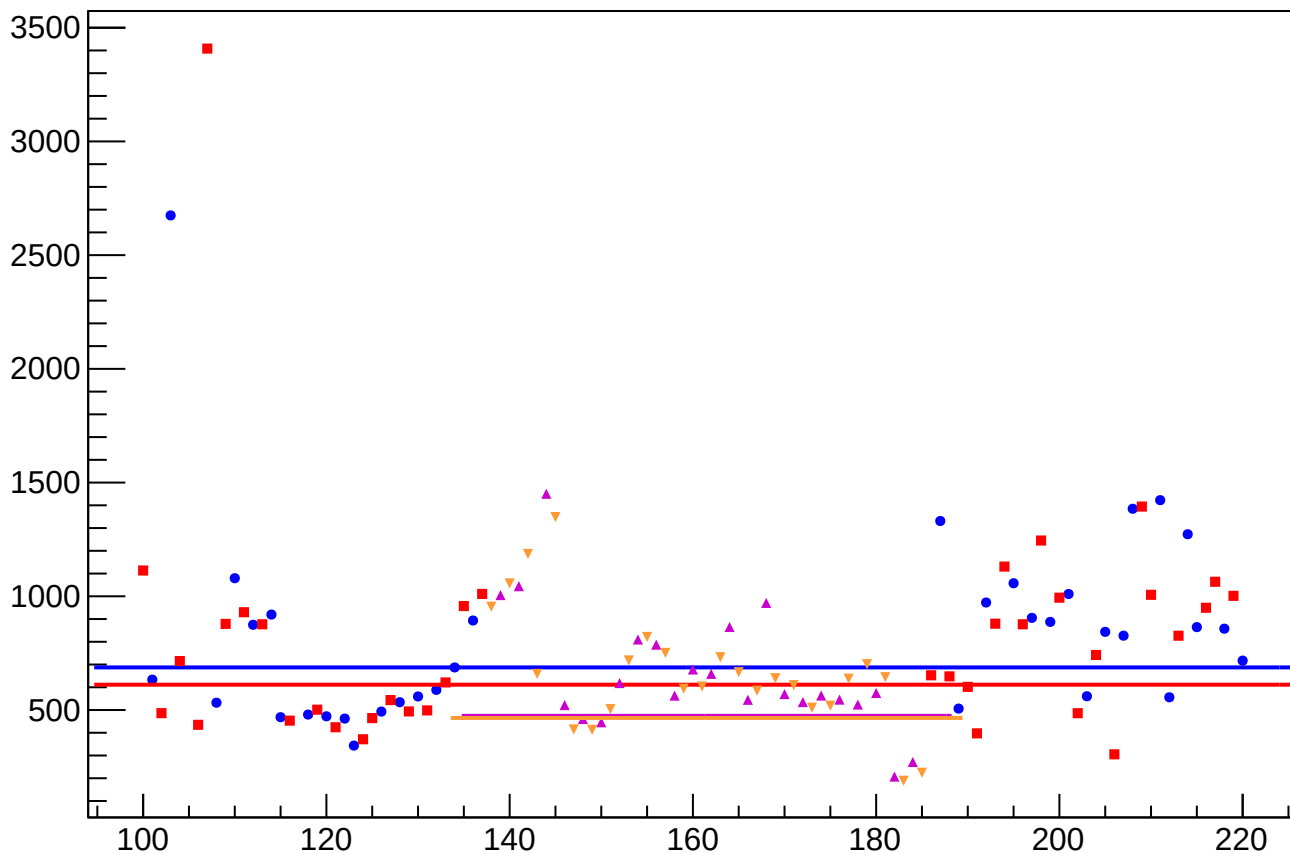
Right: -131.807+/-116.694 χ^2/NDF : 85.4/70

In: -117.259+/-101.720 χ^2/NDF : 52.3/56

Out: -118.470+/-96.851 χ^2/NDF : 83.3/61

All: -117.894+/-70.142 χ^2/NDF : 135.6/118

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 687.272 $\pm$ 0.121 χ^2 /NDF: 3993256.2/33

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 611.229 $\pm$ 0.113 χ^2 /NDF: 5445895.7/36

Left In: 474.263 $\pm$ 0.089 χ^2 /NDF: 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2 /NDF: 13264703.6/47

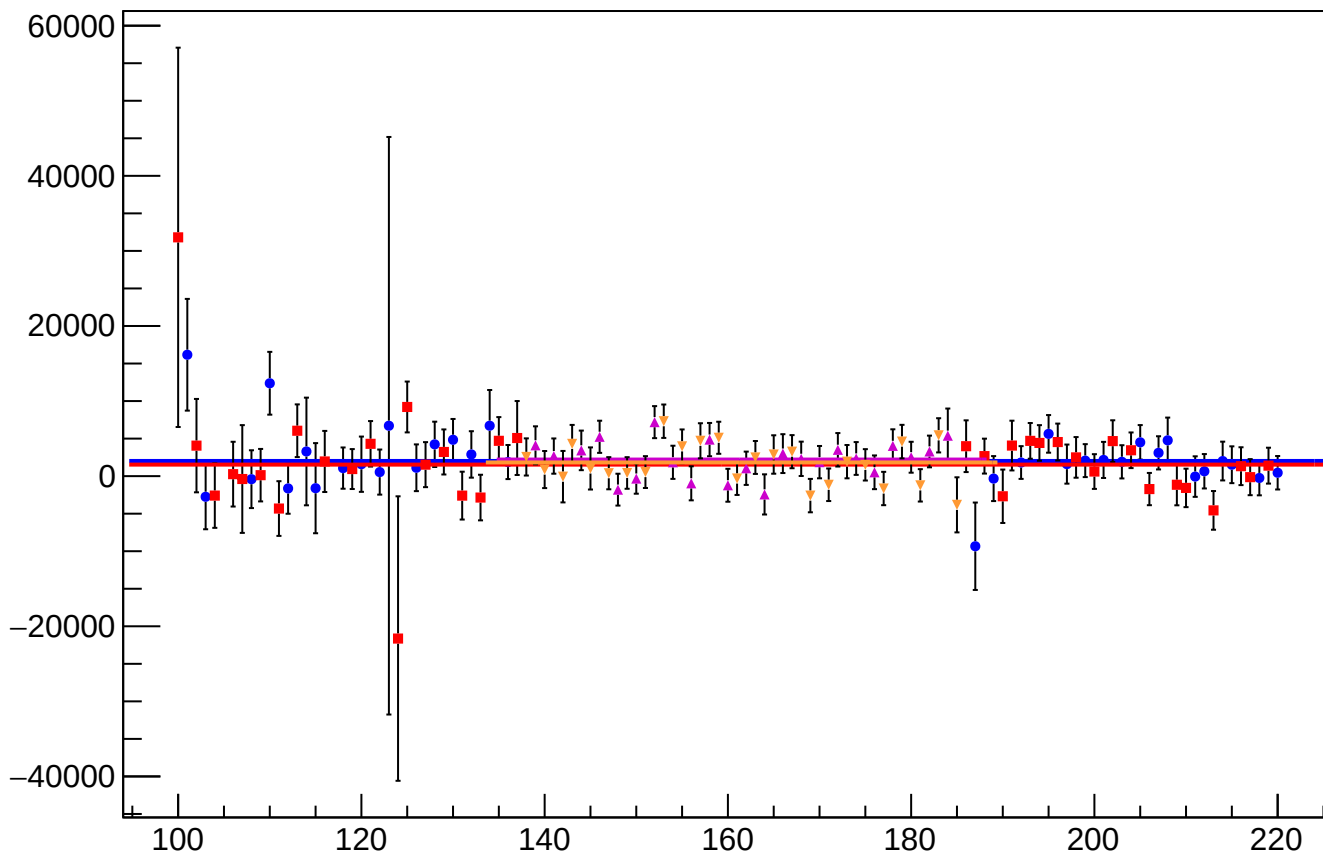
Right: 646.467 $\pm$ 0.083 χ^2 /NDF: 9650333.2/70

In: 549.263 $\pm$ 0.072 χ^2 /NDF: 12167068.6/56

Out: 519.100 $\pm$ 0.068 χ^2 /NDF: 13593171.5/61

All: 533.443 $\pm$ 0.050 χ^2 /NDF: 25852479.6/111

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2021.411+/-493.093 χ^2/NDF : 27.2/33

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 1534.795+/-493.020 χ^2/NDF : 40.7/36

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

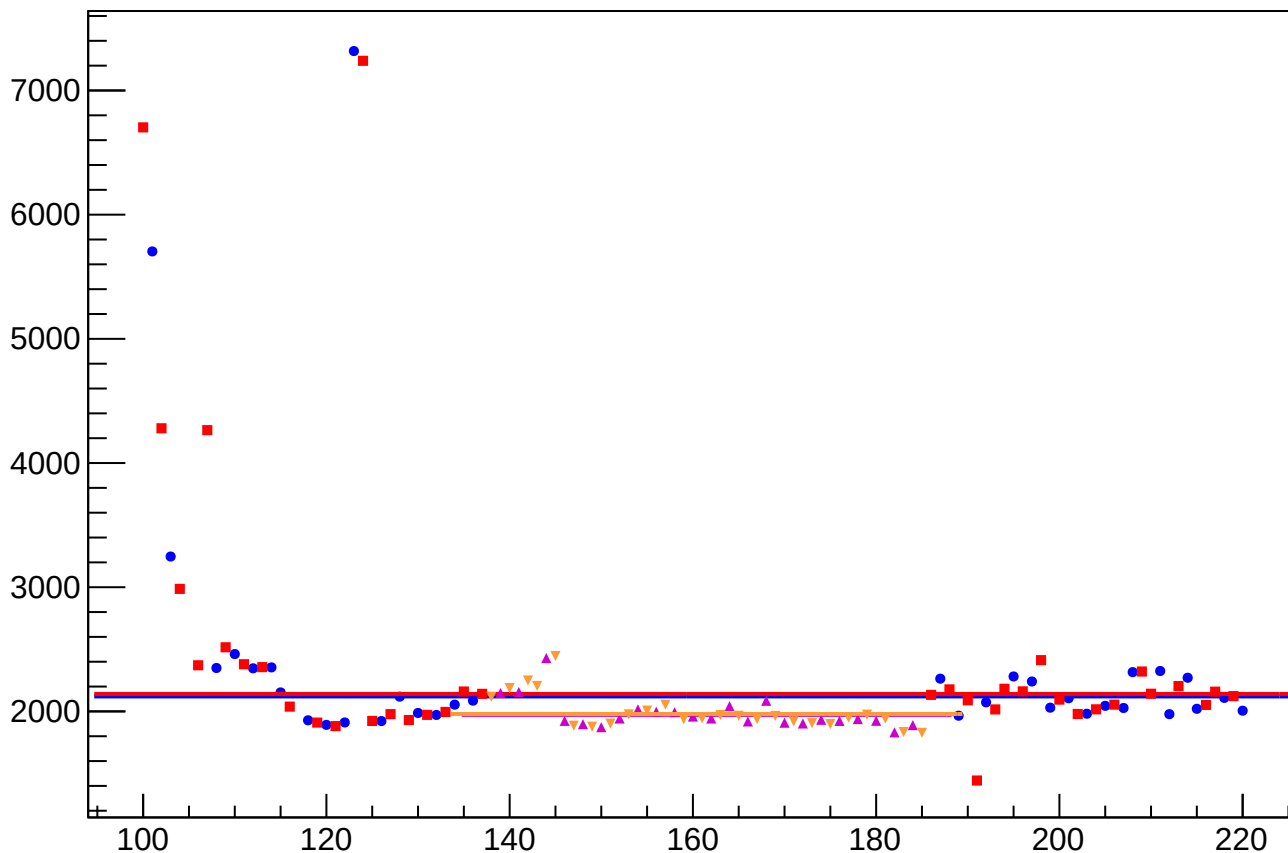
Right: 1778.067+/-348.644 χ^2/NDF : 68.5/70

In: 2118.437+/-341.738 χ^2/NDF : 52.7/56

Out: 1688.600+/-337.386 χ^2/NDF : 73.0/61

All: 1900.764+/-240.092 χ^2/NDF : 126.5/118

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2120.574 $\pm$ 0.349 χ^2 /NDF: 793416.9/33

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2140.367 $\pm$ 0.349 χ^2 /NDF: 954399.6/36

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

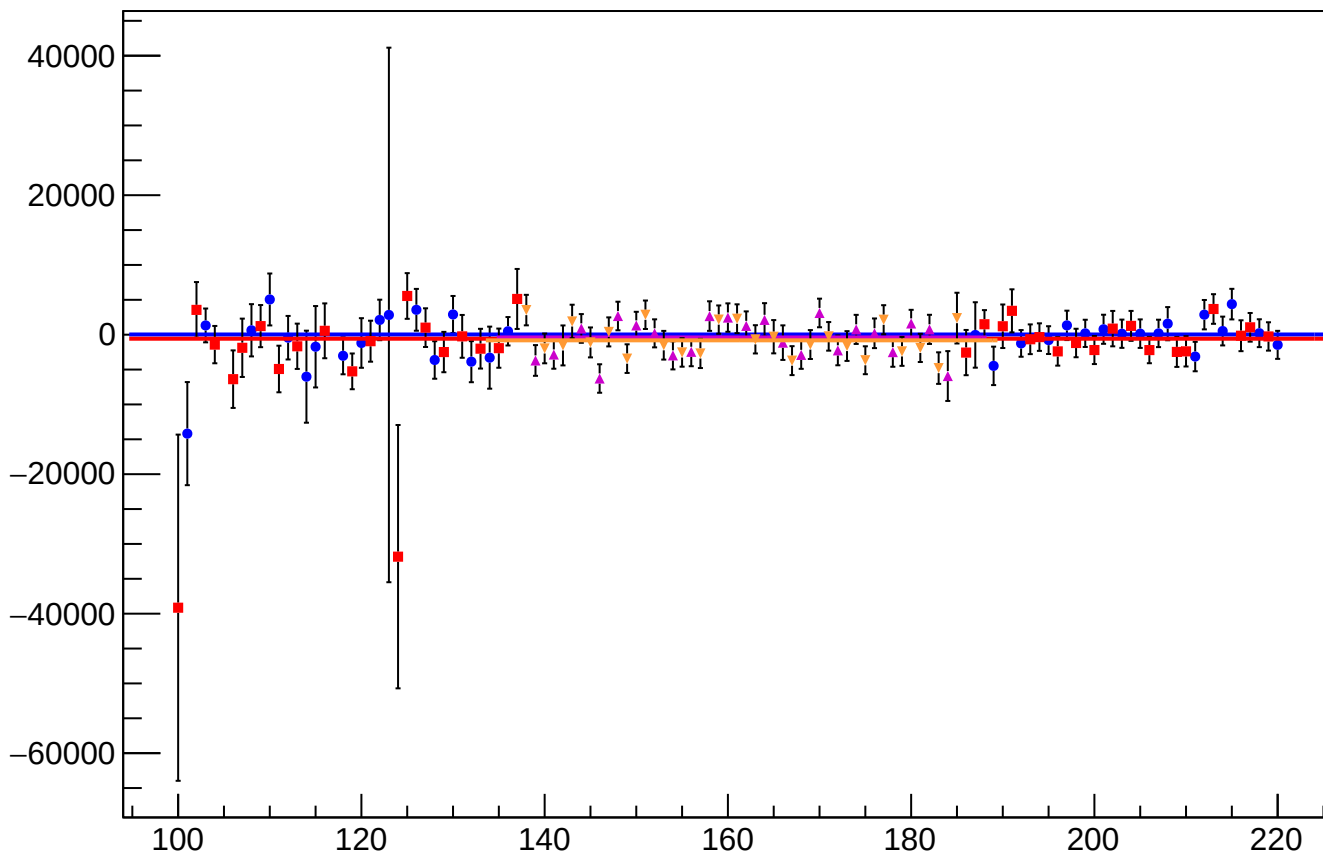
Right: 2130.472 $\pm$ 0.247 χ^2 /NDF: 1749428.1/70

In: 2043.449 $\pm$ 0.242 χ^2 /NDF:1004019.6/56

Out: 2054.567 $\pm$ 0.239 χ^2 /NDF:1207623.1/61

All: 2049.079 $\pm$ 0.170 χ^2 /NDF: 2212714.7/11

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 28.088 ± 432.149 χ^2/NDF : 28.4/33

Left Out: -808.436 ± 430.304 χ^2/NDF : 27.9/24

Right Out: -578.239 ± 428.760 χ^2/NDF : 33.5/36

Left In: -398.797 ± 441.246 χ^2/NDF : 34.4/22

Left: -608.759 ± 308.066 χ^2/NDF : 62.8/47

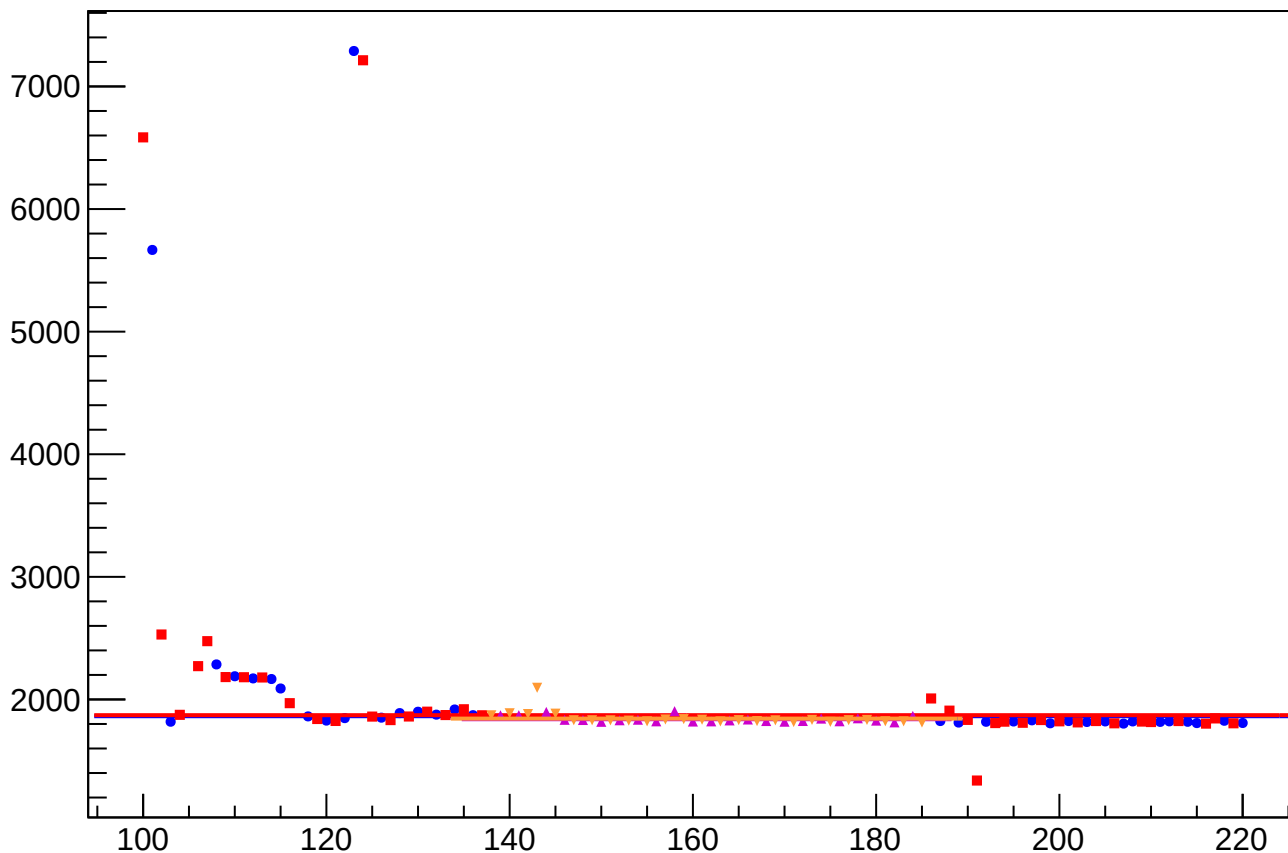
Right: -277.463 ± 304.370 χ^2/NDF : 62.9/70

In: -180.909 ± 308.742 χ^2/NDF : 63.3/56

Out: -692.924 ± 303.723 χ^2/NDF : 61.6/61

All: -441.111 ± 216.517 χ^2/NDF : 126.2/118

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1863.269+/-0.306 χ^2/NDF : 655547.1/33

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1871.800+/-0.303 χ^2/NDF : 490439.9/36

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

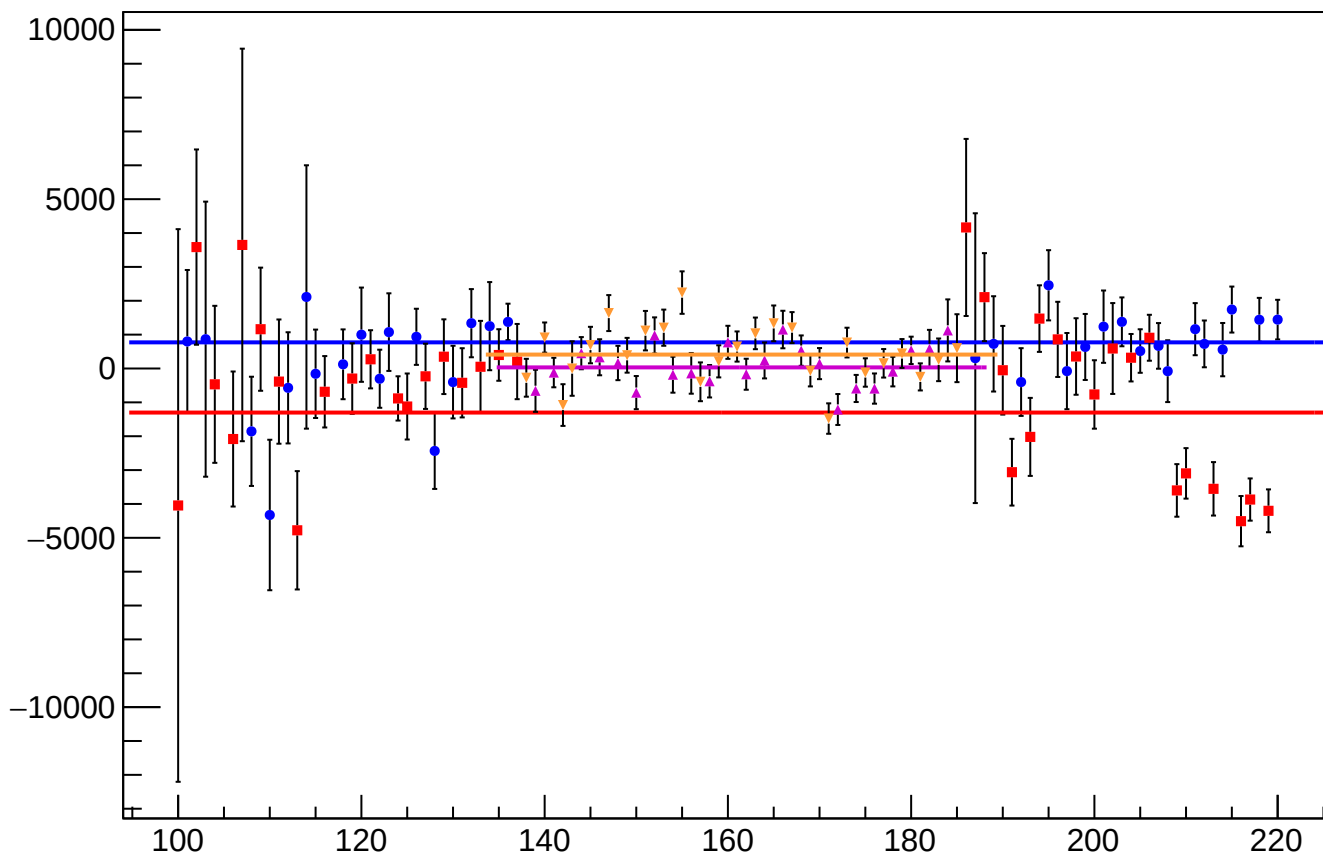
Right: 1867.568+/-0.215 χ^2/NDF : 1146379.7/70

In: 1851.197+/-0.218 χ^2/NDF : 665070.2/56

Out: 1857.824+/-0.215 χ^2/NDF : 521572.9/61

All: 1854.565+/-0.153 χ^2/NDF : 1187111.3/11

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 771.731 $\pm$ 159.195 χ^2/NDF : 33.7/33

Left Out: 411.072 $\pm$ 100.456 χ^2/NDF : 61.2/24

Right Out: -1301.214 $\pm$ 163.370 χ^2/NDF : 154.4/36

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

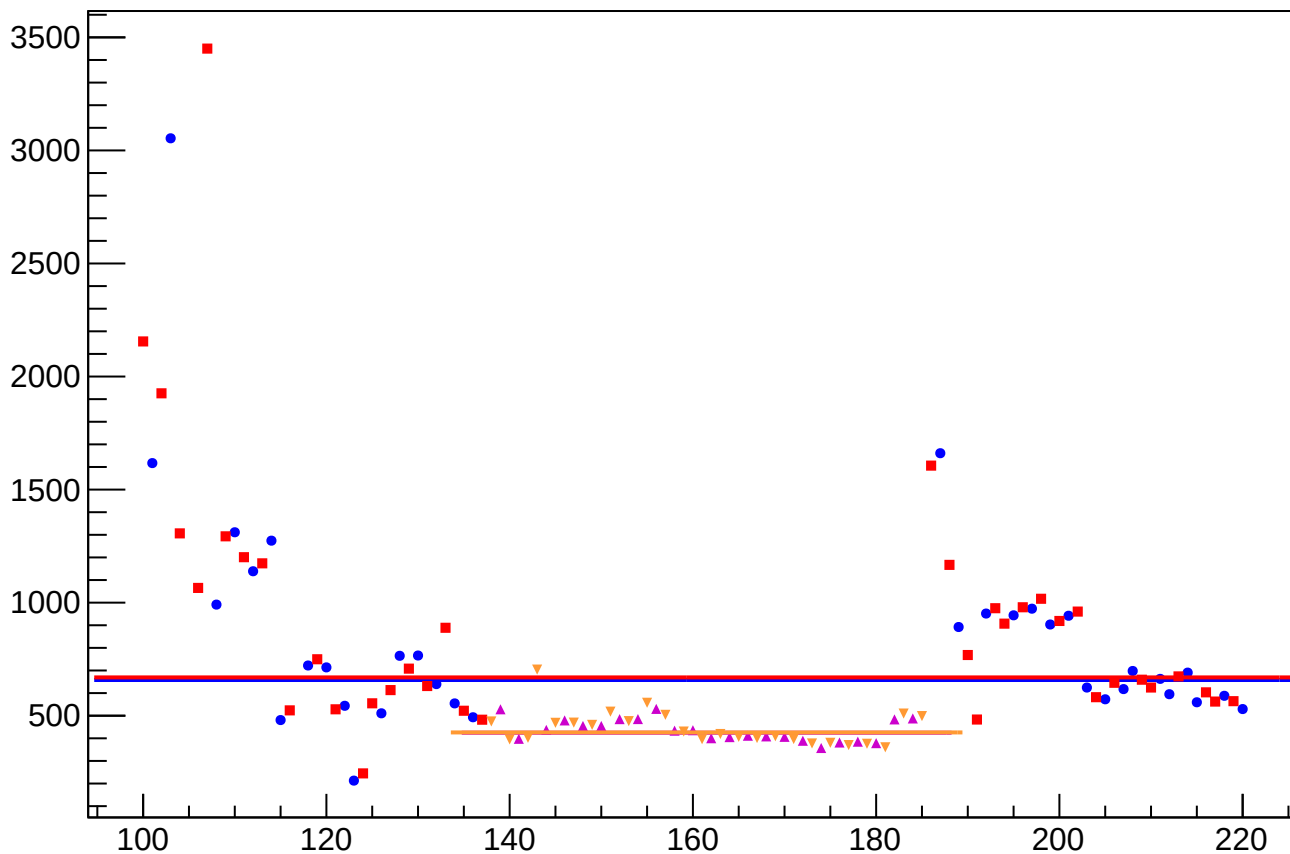
Right: -237.912 $\pm$ 114.015 χ^2/NDF : 270.7/70

In: 248.825 $\pm$ 86.124 χ^2/NDF : 81.7/56

Out: -58.715 $\pm$ 85.573 χ^2/NDF : 295.3/61

All: 94.068 $\pm$ 60.703 χ^2/NDF : 383.4/118

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 657.909 ± 0.113 $\chi^2/\text{NDF}: 3424870.3/33$

Left Out: 426.027 ± 0.071 $\chi^2/\text{NDF}: 733072.9/24$

Right Out: 669.358 ± 0.116 $\chi^2/\text{NDF}: 4501878.3/36$

Left In: 424.639 ± 0.072 $\chi^2/\text{NDF}: 391611.2/22$

Left: 425.346 ± 0.051 $\chi^2/\text{NDF}: 1124871.5/47$

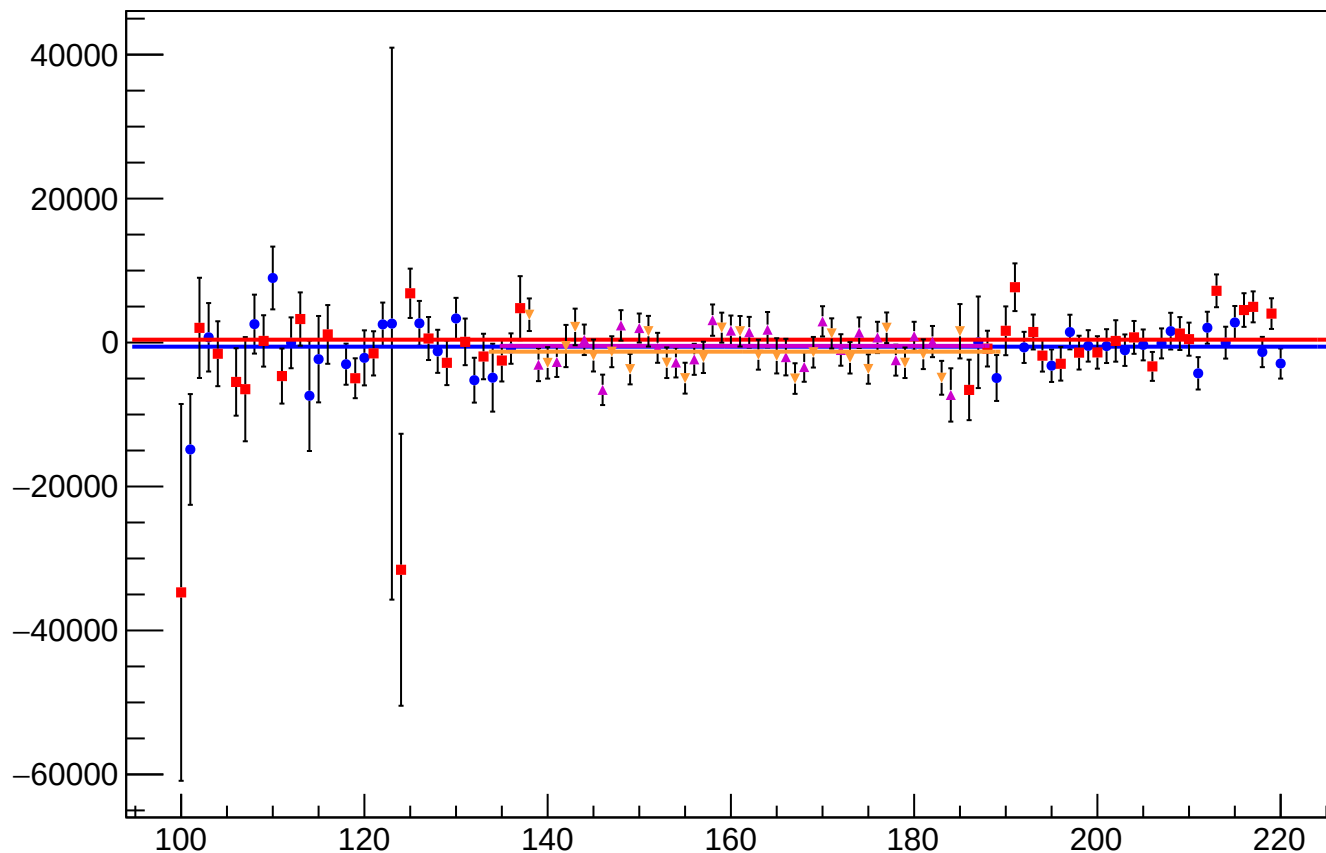
Right: 663.485 ± 0.081 $\chi^2/\text{NDF}: 7931787.3/70$

In: 492.911 ± 0.061 $\chi^2/\text{NDF}: 6853926.3/56$

Out: 492.788 ± 0.061 $\chi^2/\text{NDF}: 8454513.3/61$

All: 492.849 ± 0.043 $\chi^2/\text{NDF}: 15308441.6/117$

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -572.711+/-473.357 χ^2/NDF : 30.3/33

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: 399.528+/-476.503 χ^2/NDF : 56.4/36

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

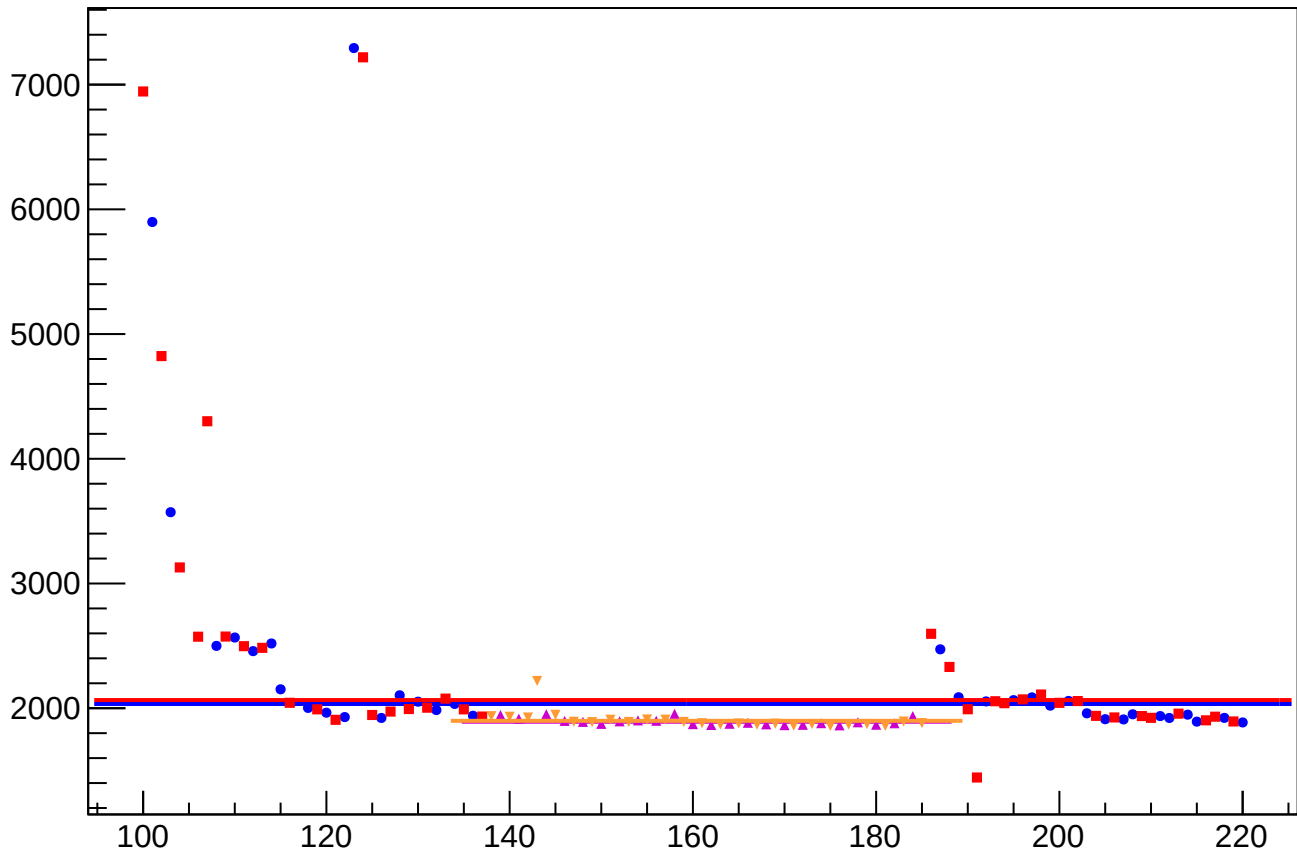
Right: -89.811+/-335.821 χ^2/NDF : 88.8/70

In: -515.351+/-327.636 χ^2/NDF : 62.9/56

Out: -494.442+/-324.532 χ^2/NDF : 93.8/61

All: -504.797+/-230.568 χ^2/NDF : 156.6/118

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2033.808 $\pm$ 0.335 χ^2 /NDF: 921112.4/33

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF: 38680.4/24

Right Out: 2065.447 $\pm$ 0.337 χ^2 /NDF: 1157705.9/36

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF: 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

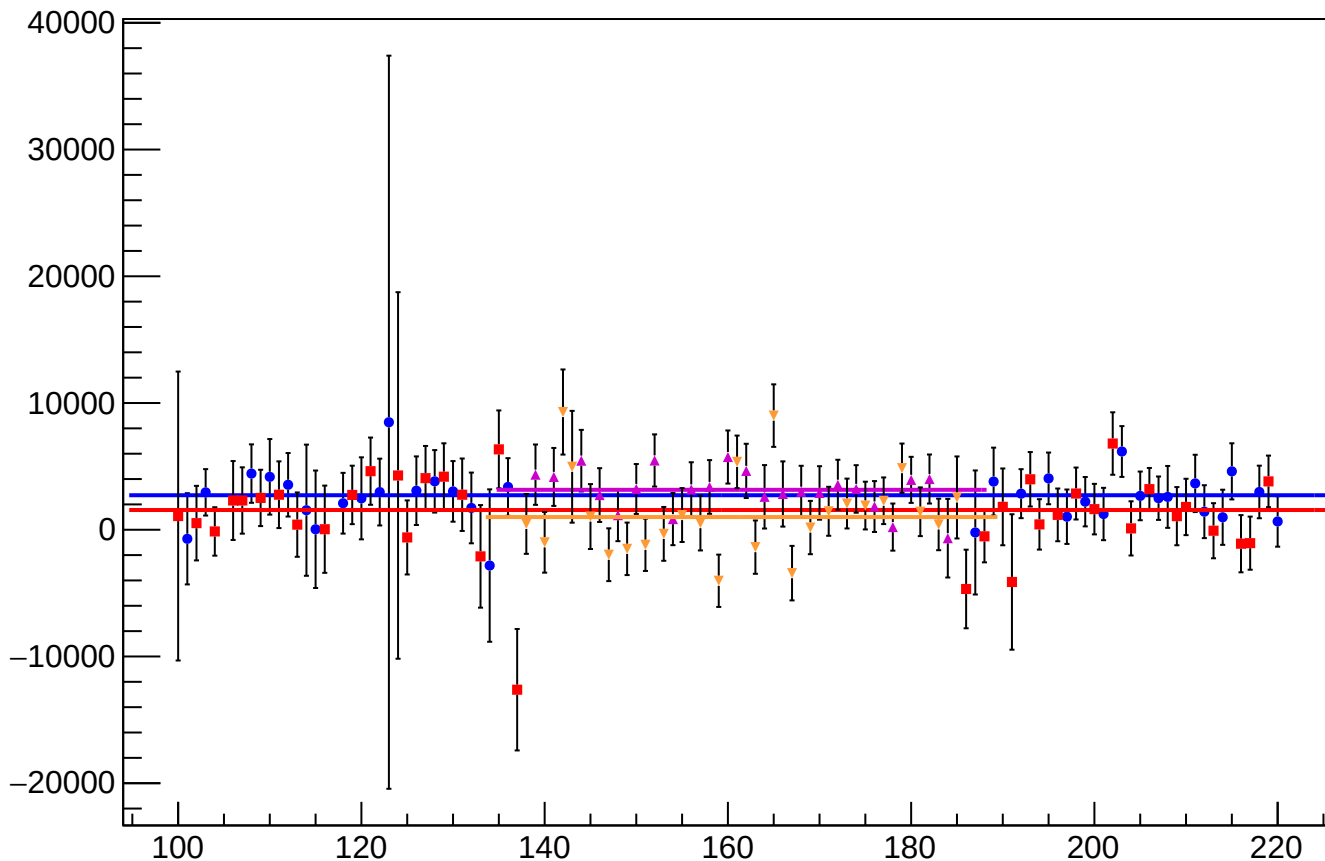
Right: 2049.523 $\pm$ 0.237 χ^2 /NDF: 2083256.4/70

In: 1959.777 $\pm$ 0.232 χ^2 /NDF: 1022441.6/56

Out: 1976.187 $\pm$ 0.229 χ^2 /NDF: 1327284.6/61

All: 1968.060 $\pm$ 0.163 χ^2 /NDF: 2352258.9/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2723.015+/-411.070 χ^2/NDF : 11.8/33

Left Out: 1001.263+/-435.247 χ^2/NDF : 44.6/24

Right Out: 1557.177+/-408.156 χ^2/NDF : 37.2/36

Left In: 3150.437+/-441.145 χ^2/NDF : 11.8/22

Left: 2061.387+/-309.830 χ^2/NDF : 68.5/47

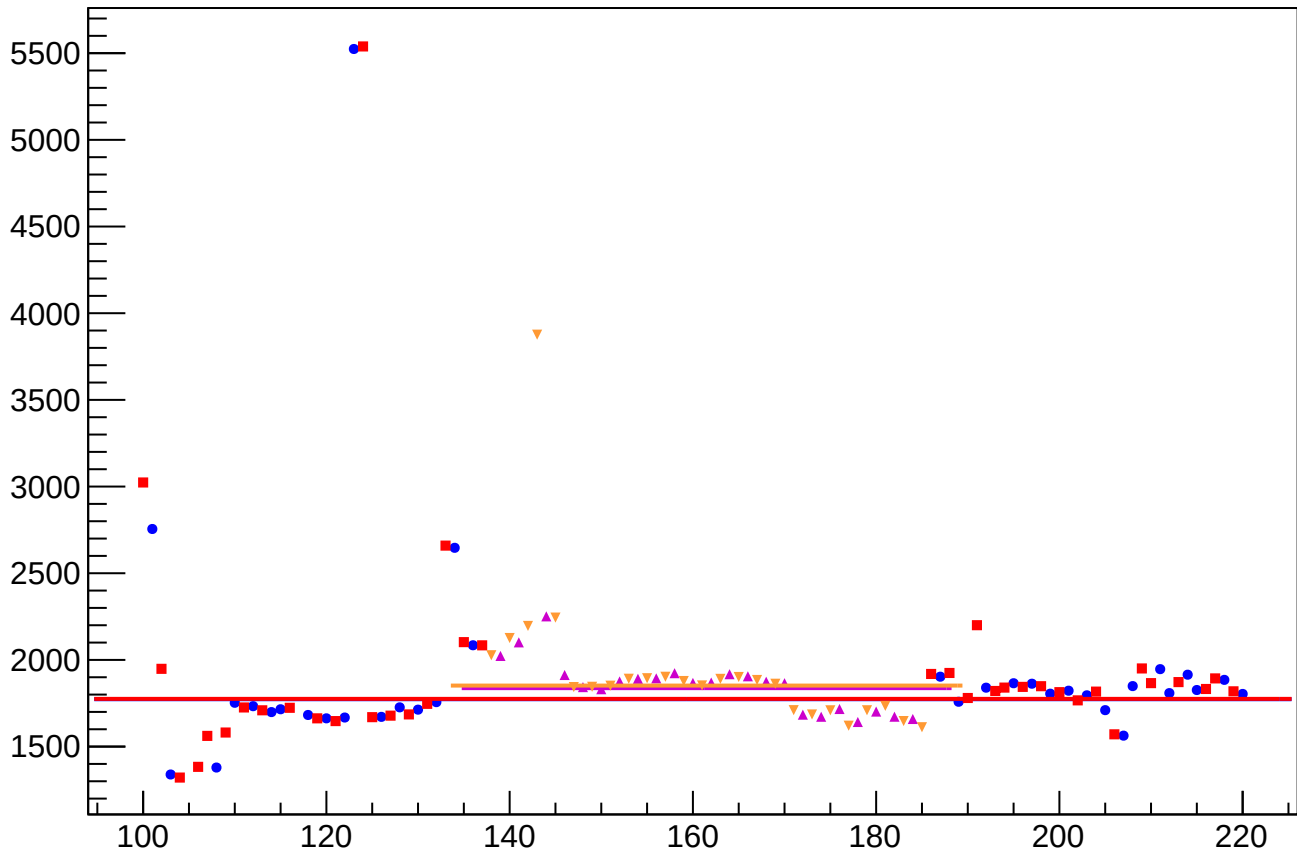
Right: 2135.949+/-289.634 χ^2/NDF : 53.0/70

In: 2921.660+/-300.741 χ^2/NDF : 24.1/56

Out: 1297.059+/-297.727 χ^2/NDF : 82.7/61

All: 2101.177+/-211.582 χ^2/NDF : 121.5/118

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1773.232 $\pm$ 0.291 χ^2 /NDF: 523449.2/33

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1775.281 $\pm$ 0.289 χ^2 /NDF: 580333.4/36

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

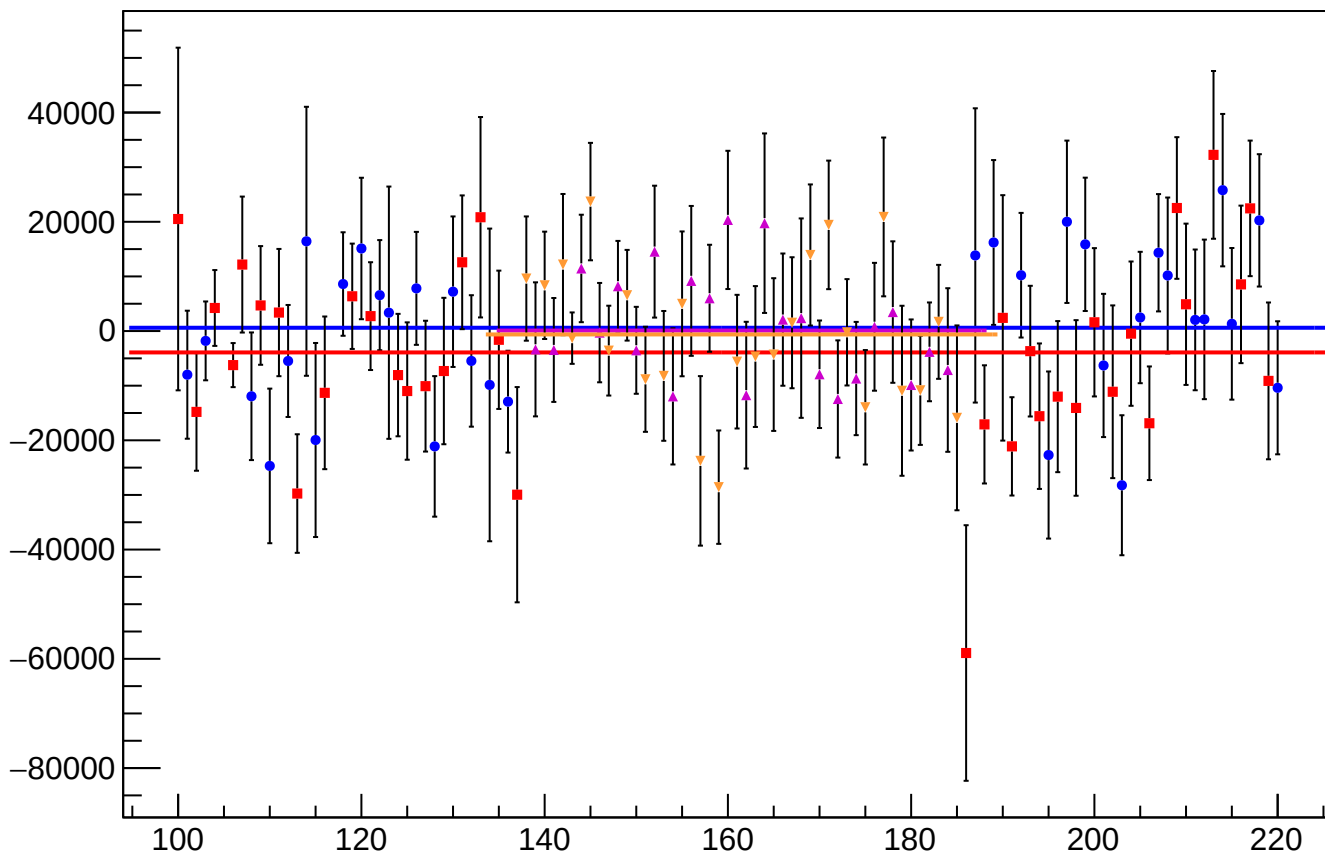
Right: 1774.264 $\pm$ 0.205 χ^2 /NDF: 1103807.7/70

In: 1802.938 $\pm$ 0.213 χ^2 /NDF: 746437.0/56

Out: 1811.159 $\pm$ 0.211 χ^2 /NDF: 1262315.3/61

All: 1807.090 $\pm$ 0.150 χ^2 /NDF: 2009507.1/111

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 603.702 ± 2140.512 $\chi^2/\text{NDF}: 37.3/33$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -3914.218 ± 1838.366 $\chi^2/\text{NDF}: 49.5/36$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

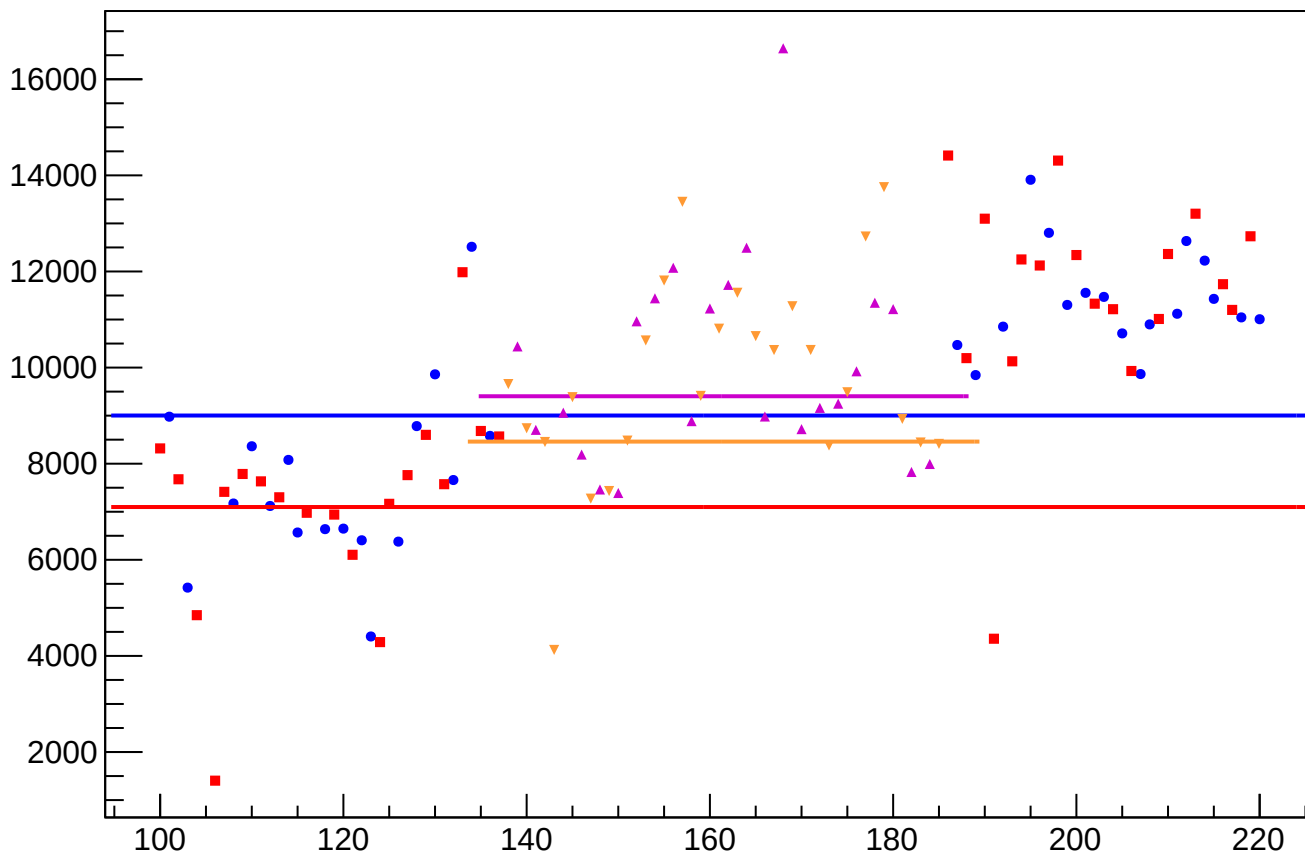
Right: -1996.370 ± 1394.619 $\chi^2/\text{NDF}: 89.3/70$

In: 366.142 ± 1564.966 $\chi^2/\text{NDF}: 51.9/56$

Out: -2461.138 ± 1374.459 $\chi^2/\text{NDF}: 81.0/61$

All: -1229.970 ± 1032.712 $\chi^2/\text{NDF}: 134.8/111$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 9002.400 $\pm$ 1.514 χ^2 /NDF: 2420424.3/33

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF: 3087200.5/24

Right Out: 7098.412 $\pm$ 1.300 χ^2 /NDF: 8638044.4/36

Left In: 9403.481 $\pm$ 1.622 χ^2 /NDF: 1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

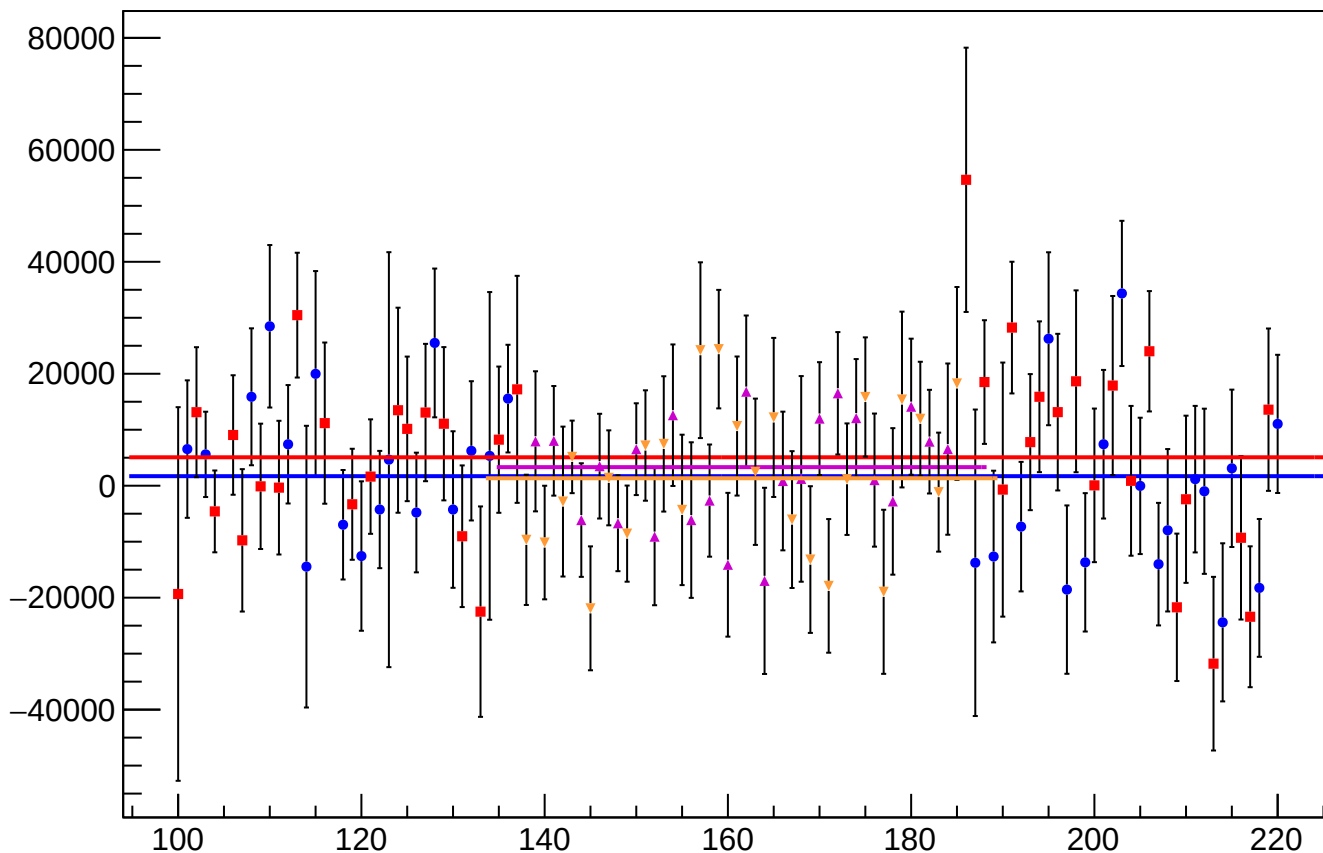
Right: 7906.651 $\pm$ 0.986 χ^2 /NDF: 11969157.2/70

In: 9189.090 $\pm$ 1.107 χ^2 /NDF: 3595756.2/56

Out: 7698.877 $\pm$ 0.972 χ^2 /NDF: 12209067.4/61

All: 8347.805 $\pm$ 0.730 χ^2 /NDF: 16828615.6/131

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1703.409 $\pm$ 2203.387 χ^2 /NDF: 38.5/33

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF: 28.0/24

Right Out: 5076.924 $\pm$ 2122.961 χ^2 /NDF: 47.7/36

Left In: 3316.909 $\pm$ 2344.543 χ^2 /NDF: 13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2 /NDF: 42.2/47

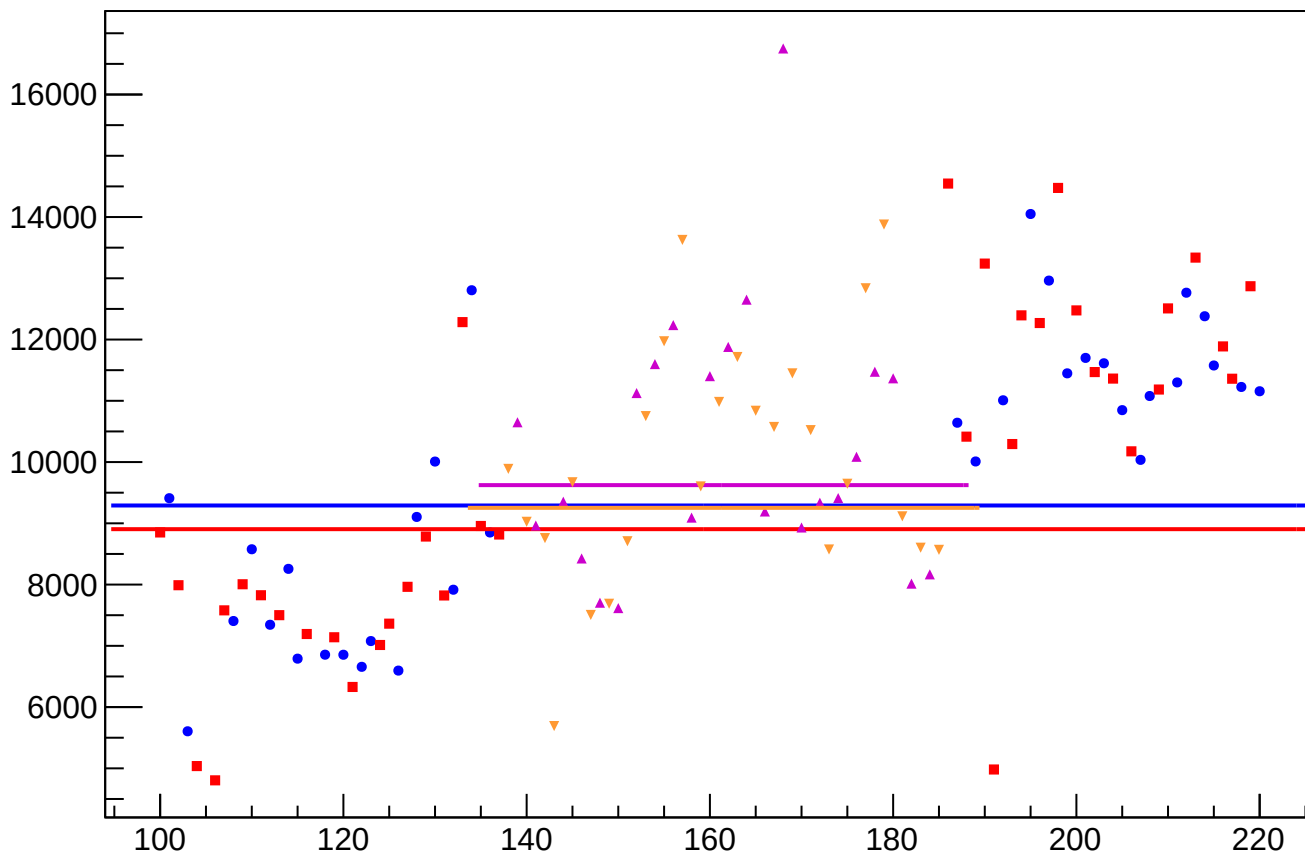
Right: 3452.857 $\pm$ 1528.802 χ^2 /NDF: 87.4/70

In: 2460.128 $\pm$ 1605.614 χ^2 /NDF: 52.5/56

Out: 3283.209 $\pm$ 1532.246 χ^2 /NDF: 77.2/61

All: 2890.903 $\pm$ 1108.491 χ^2 /NDF: 129.9/118

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9291.085+/-1.558

χ^2/NDF : 2170312.4/33

Left Out: 9252.712+/-1.565

χ^2/NDF :1597668.9/24

Right Out: 8904.569+/-1.501

χ^2/NDF : 3200666.8/36

Left In: 9623.485+/-1.658

χ^2/NDF :1069924.0/22

Left: 9427.467+/-1.138

χ^2/NDF : 2694036.4/47

Right: 9090.630+/-1.081

χ^2/NDF : 5402898.0/70

In: 9446.976+/-1.135

χ^2/NDF :3261583.8/56

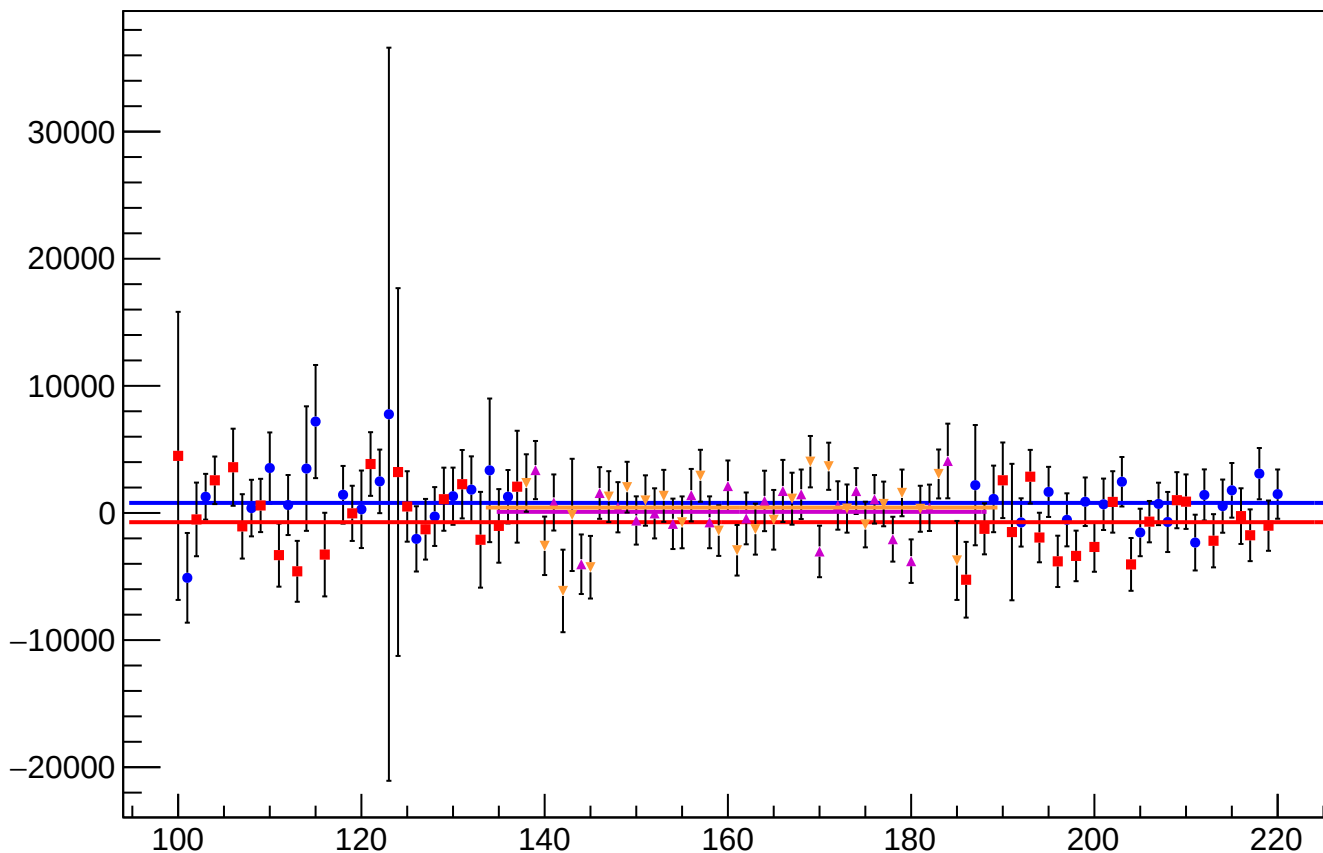
Out: 9071.341+/-1.083

χ^2/NDF :4824105.2/61

All: 9250.373+/-0.784

χ^2/NDF : 8142983.1/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 791.769 $\pm$ 396.323 χ^2/NDF : 16.6/33

Left Out: 429.447 $\pm$ 416.378 χ^2/NDF : 28.7/24

Right Out: -724.905 $\pm$ 393.647 χ^2/NDF : 33.1/36

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

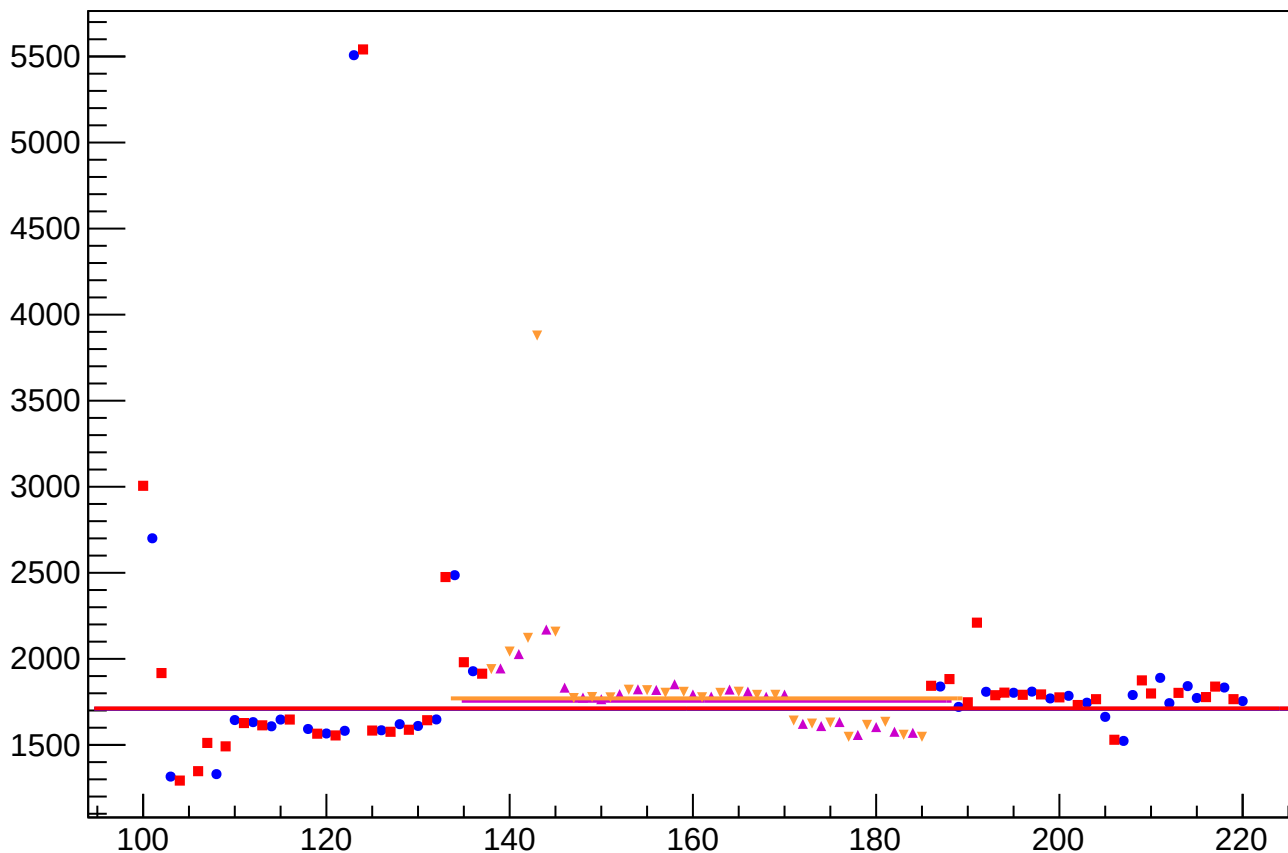
Right: 28.294 $\pm$ 279.291 χ^2/NDF : 57.1/70

In: 462.085 $\pm$ 288.880 χ^2/NDF : 39.0/56

Out: -180.098 $\pm$ 286.049 χ^2/NDF : 65.9/61

All: 137.831 $\pm$ 203.261 χ^2/NDF : 107.4/118

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1709.630 $\pm$ 0.280 χ^2 /NDF: 520051.9/33

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1712.019 $\pm$ 0.278 χ^2 /NDF: 591397.0/36

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

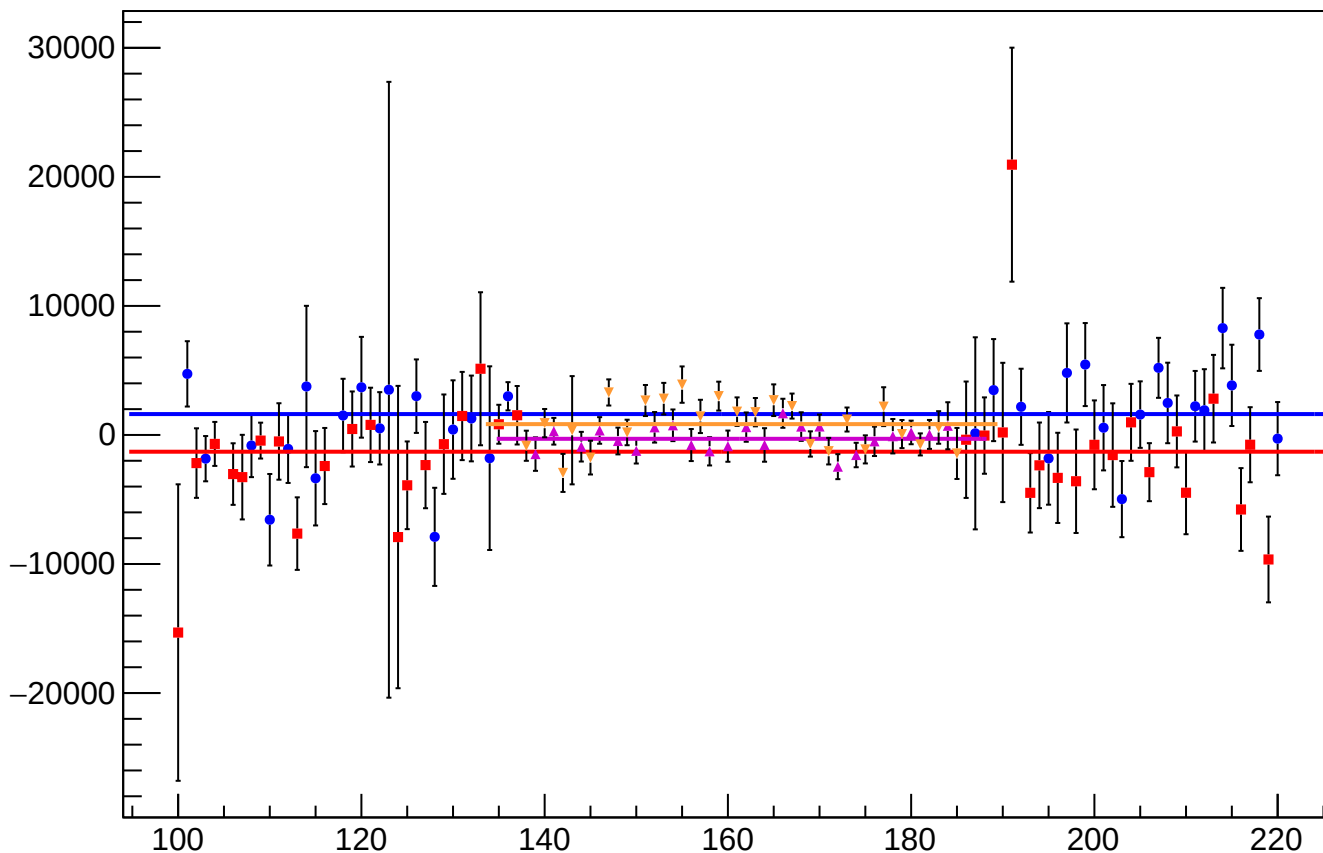
Right: 1710.833 $\pm$ 0.197 χ^2 /NDF: 1111485.4/70

In: 1731.656 $\pm$ 0.204 χ^2 /NDF: 756308.8/56

Out: 1739.565 $\pm$ 0.202 χ^2 /NDF: 1311684.5/61

All: 1735.649 $\pm$ 0.144 χ^2 /NDF: 2068750.2/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1618.298 $\pm$ 484.100 χ^2 /NDF: 44.8/33

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF:54.4/24

Right Out: -1298.694 $\pm$ 471.734 χ^2 /NDF: 35.9/36

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

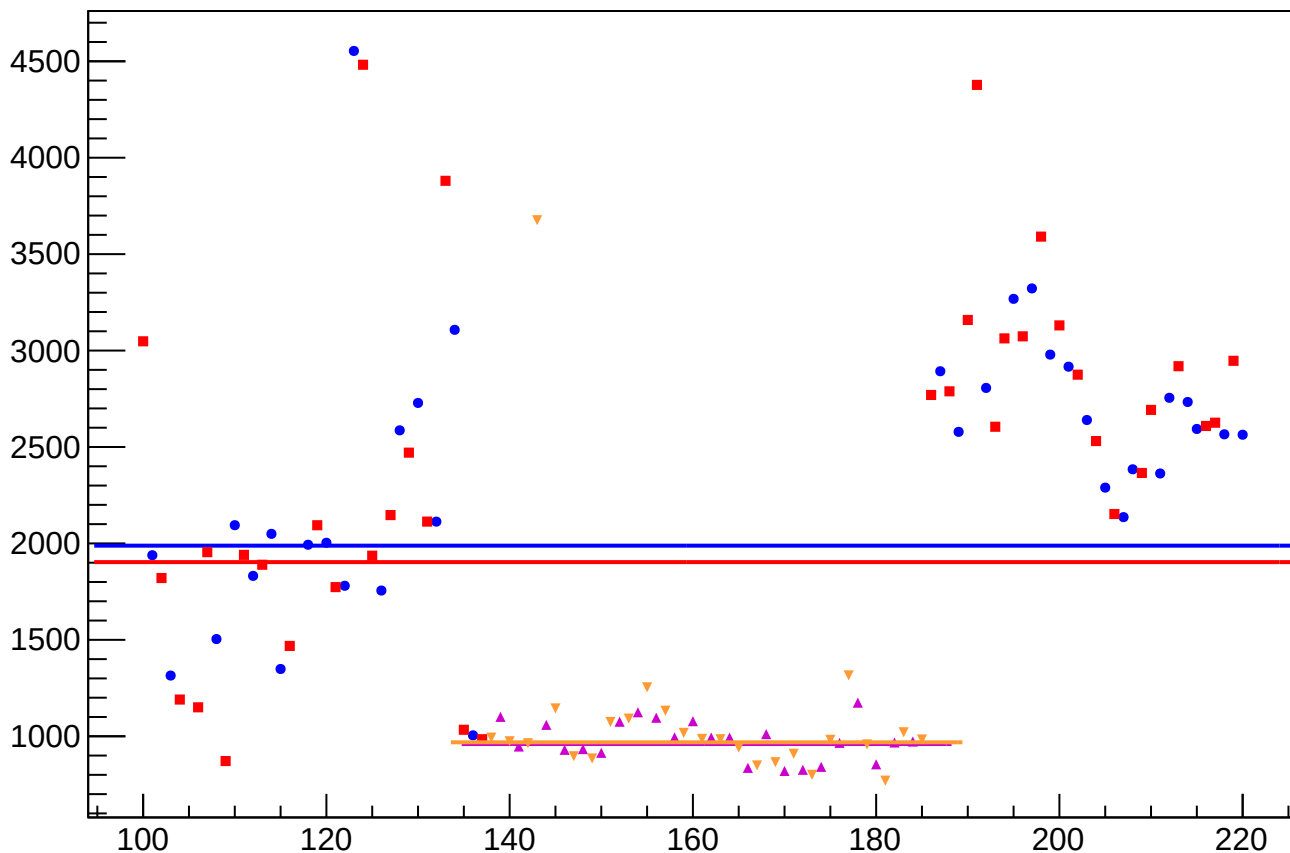
Right: 122.070 $\pm$ 337.854 χ^2 /NDF: 99.4/70

In: 57.757 $\pm$ 208.775 χ^2 /NDF:75.9/56

Out: 427.367 $\pm$ 207.074 χ^2 /NDF:106.9/61

All: 244.074 $\pm$ 147.021 χ^2 /NDF: 184.4/118

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1988.383+/-0.342 χ^2/NDF : 4030428.7/33

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1903.057+/-0.334 χ^2/NDF : 5796831.4/36

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

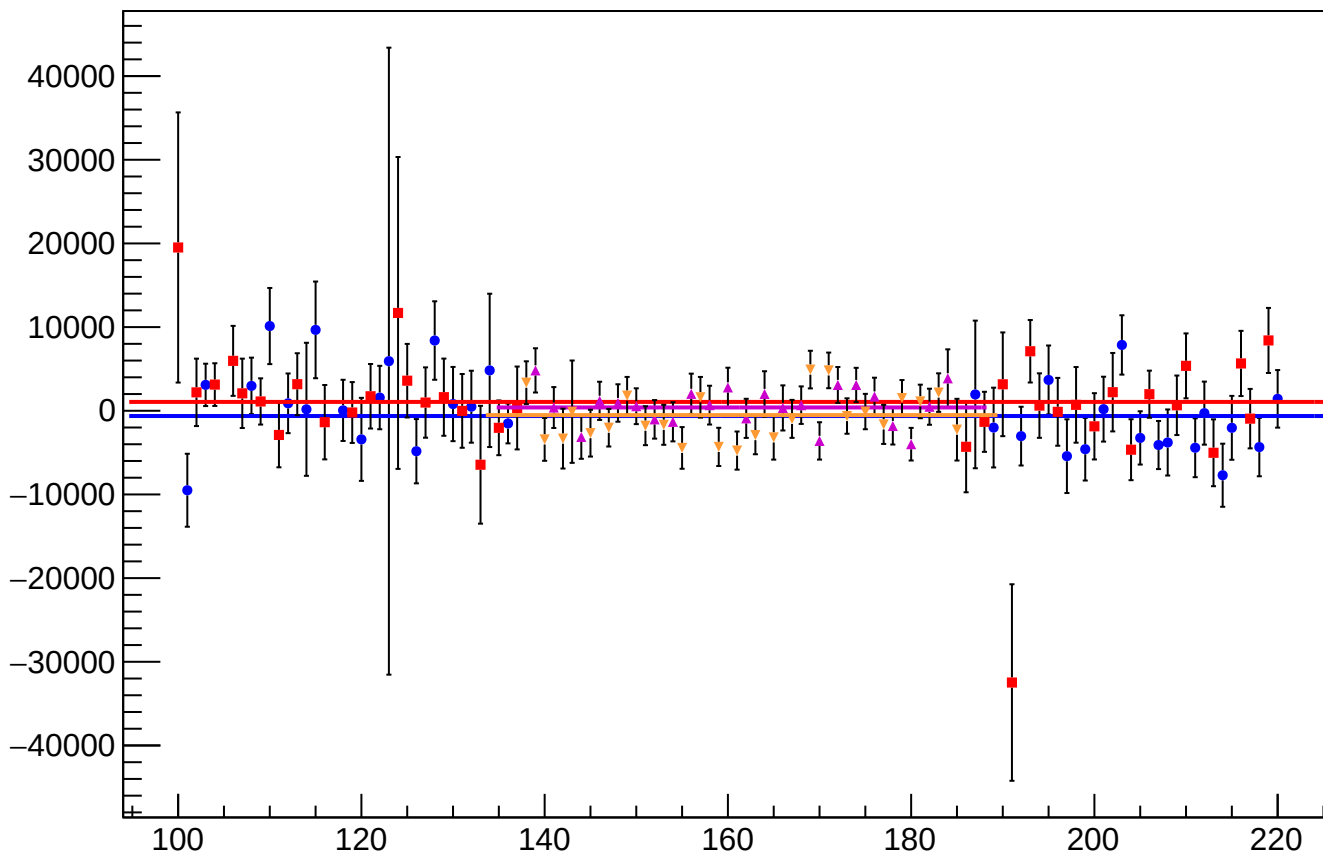
Right: 1944.616+/-0.239 χ^2/NDF : 9859130.2/70

In: 1151.108+/-0.148 χ^2/NDF : 11751256.7/56

Out: 1148.750+/-0.146 χ^2/NDF : 13524717.4/61

All: 1149.919+/-0.104 χ^2/NDF : 25276102.7/131

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -628.494 ± 664.090 $\chi^2/\text{NDF}: 41.6/33$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 1059.604 ± 661.247 $\chi^2/\text{NDF}: 32.5/36$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

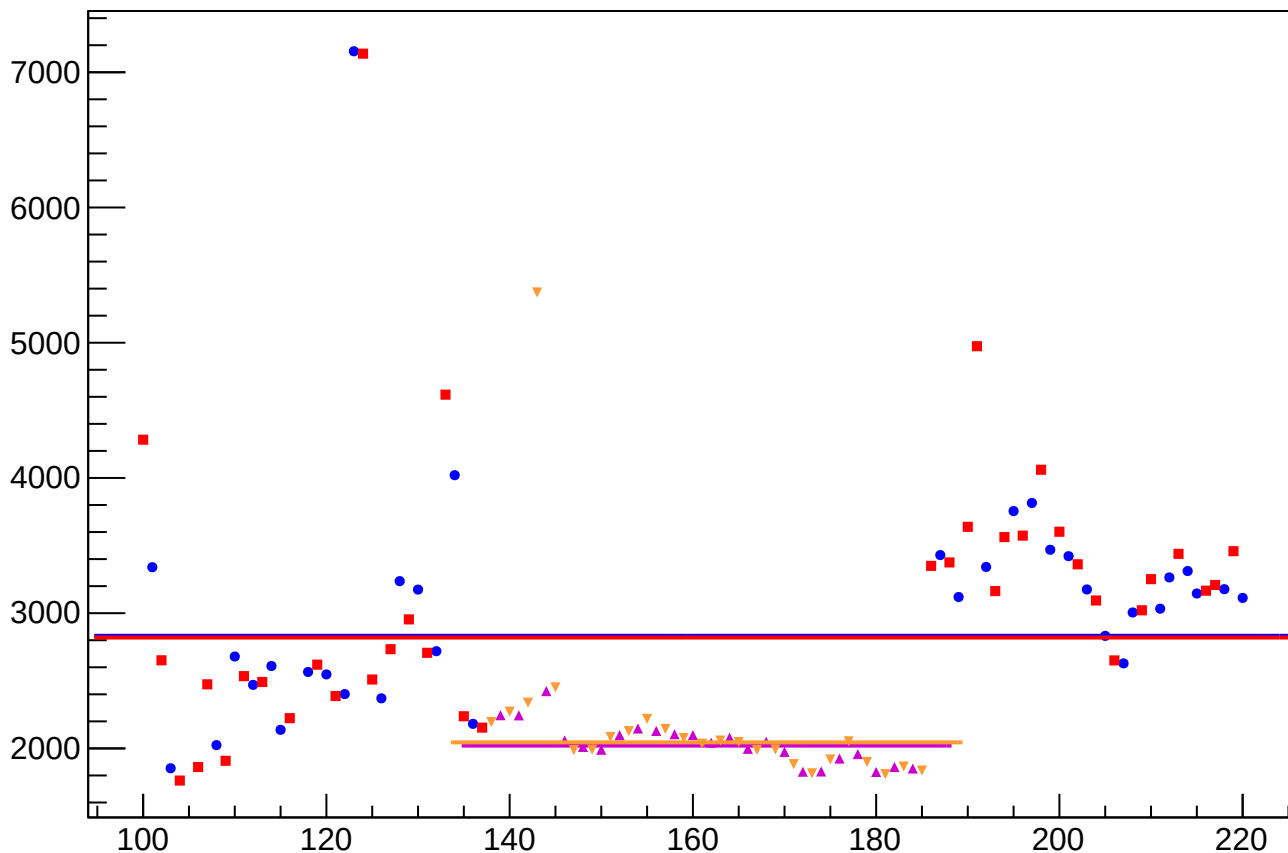
Right: 219.176 ± 468.574 $\chi^2/\text{NDF}: 77.4/70$

In: 40.504 ± 391.693 $\chi^2/\text{NDF}: 65.0/56$

Out: 28.809 ± 389.233 $\chi^2/\text{NDF}: 70.3/61$

All: 34.619 ± 276.095 $\chi^2/\text{NDF}: 135.2/118$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2832.731 $\pm$ 0.470 χ^2 /NDF: 1310819.8/33

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2819.832 $\pm$ 0.468 χ^2 /NDF: 1921312.8/36

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

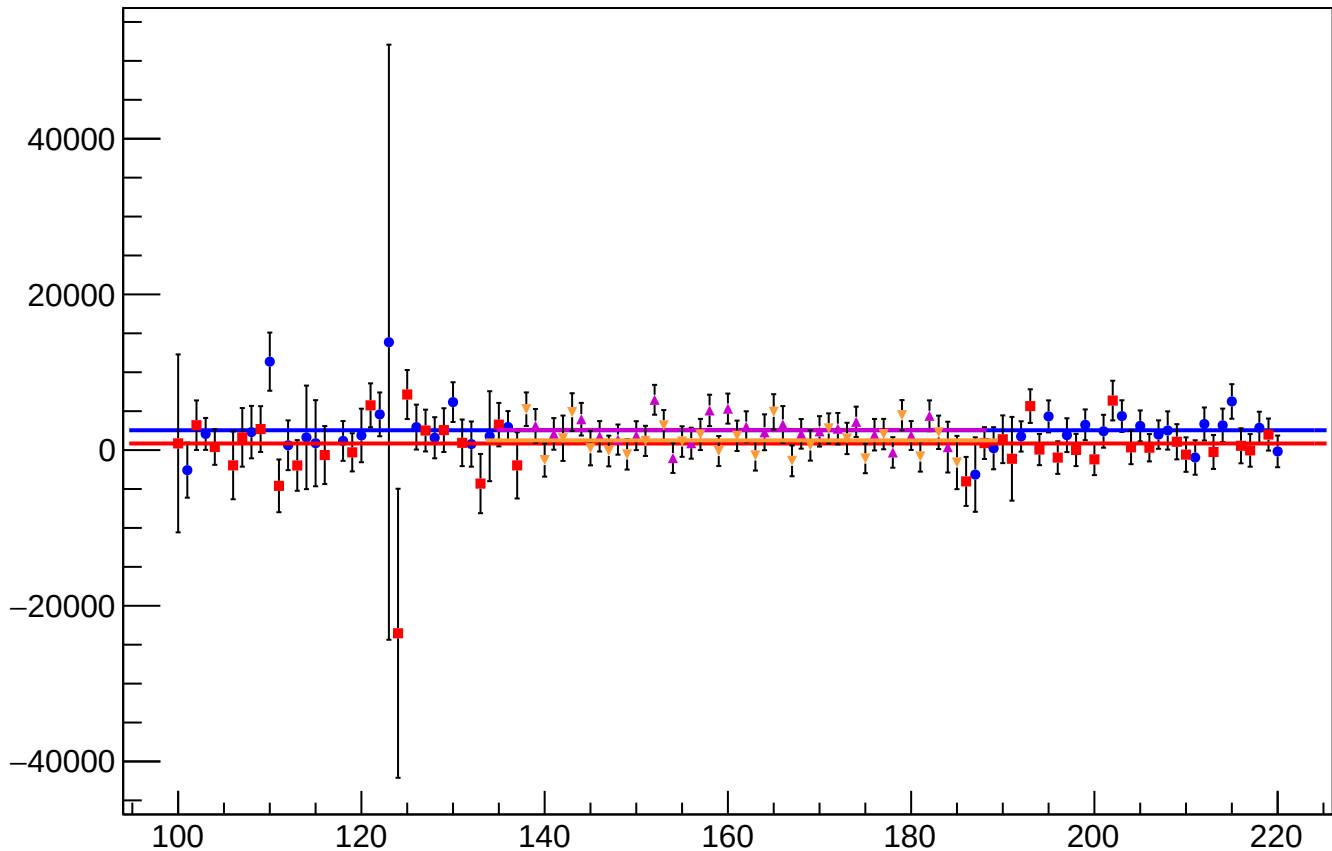
Right: 2826.254 $\pm$ 0.331 χ^2 /NDF: 3232511.4/70

In: 2303.262 $\pm$ 0.277 χ^2 /NDF: 3433884.2/56

Out: 2313.292 $\pm$ 0.275 χ^2 /NDF: 4505920.1/61

All: 2308.309 $\pm$ 0.195 χ^2 /NDF: 7940464.1/111

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2547.692+/-428.113 χ^2/NDF : 23.3/33

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 849.302+/-429.103 χ^2/NDF : 33.2/36

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

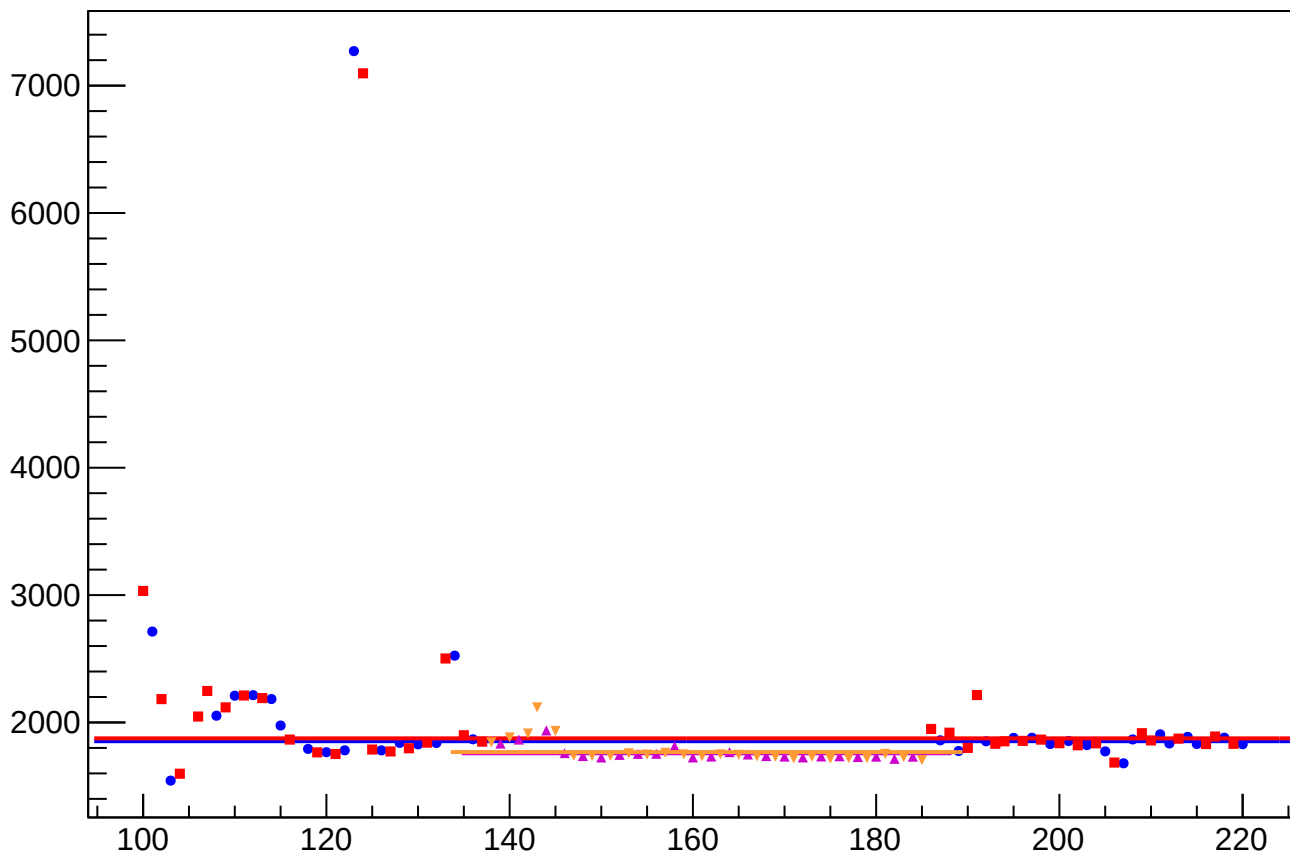
Right: 1700.458+/-303.071 χ^2/NDF : 64.4/70

In: 2567.620+/-300.360 χ^2/NDF : 40.8/56

Out: 1057.516+/-297.373 χ^2/NDF : 56.7/61

All: 1805.021+/-211.322 χ^2/NDF : 110.2/118

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1852.982+/-0.303 χ^2/NDF : 320271.9/33

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1875.087+/-0.303 χ^2/NDF : 411623.9/36

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

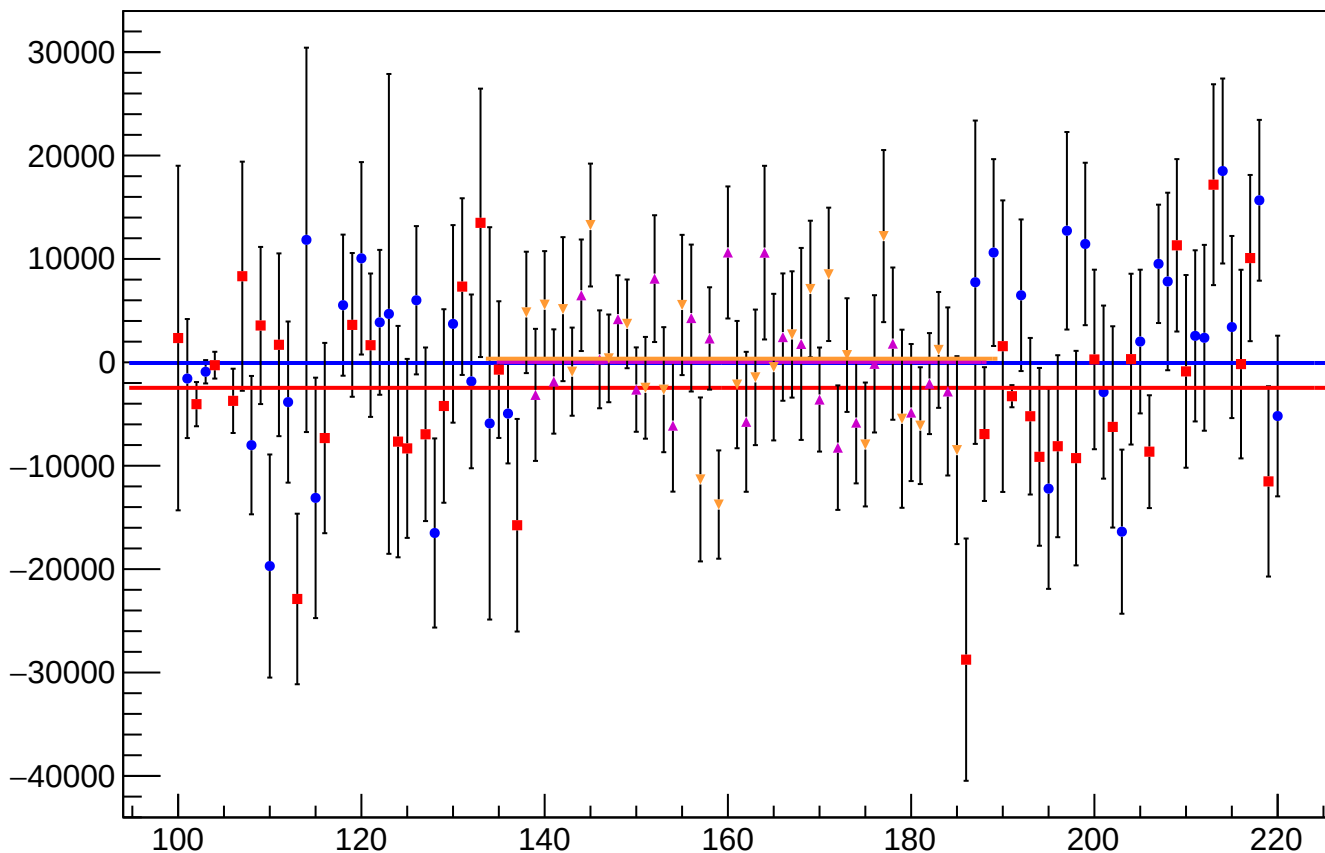
Right: 1864.015+/-0.214 χ^2/NDF : 734556.9/70

In: 1804.792+/-0.212 χ^2/NDF : 399985.8/56

Out: 1819.207+/-0.210 χ^2/NDF : 554658.9/61

All: 1812.073+/-0.149 χ^2/NDF : 956971.8/118

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -63.036 $\pm$ 882.731 χ^2 /NDF: 40.0/33

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2467.393 $\pm$ 668.539 χ^2 /NDF: 38.2/36

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

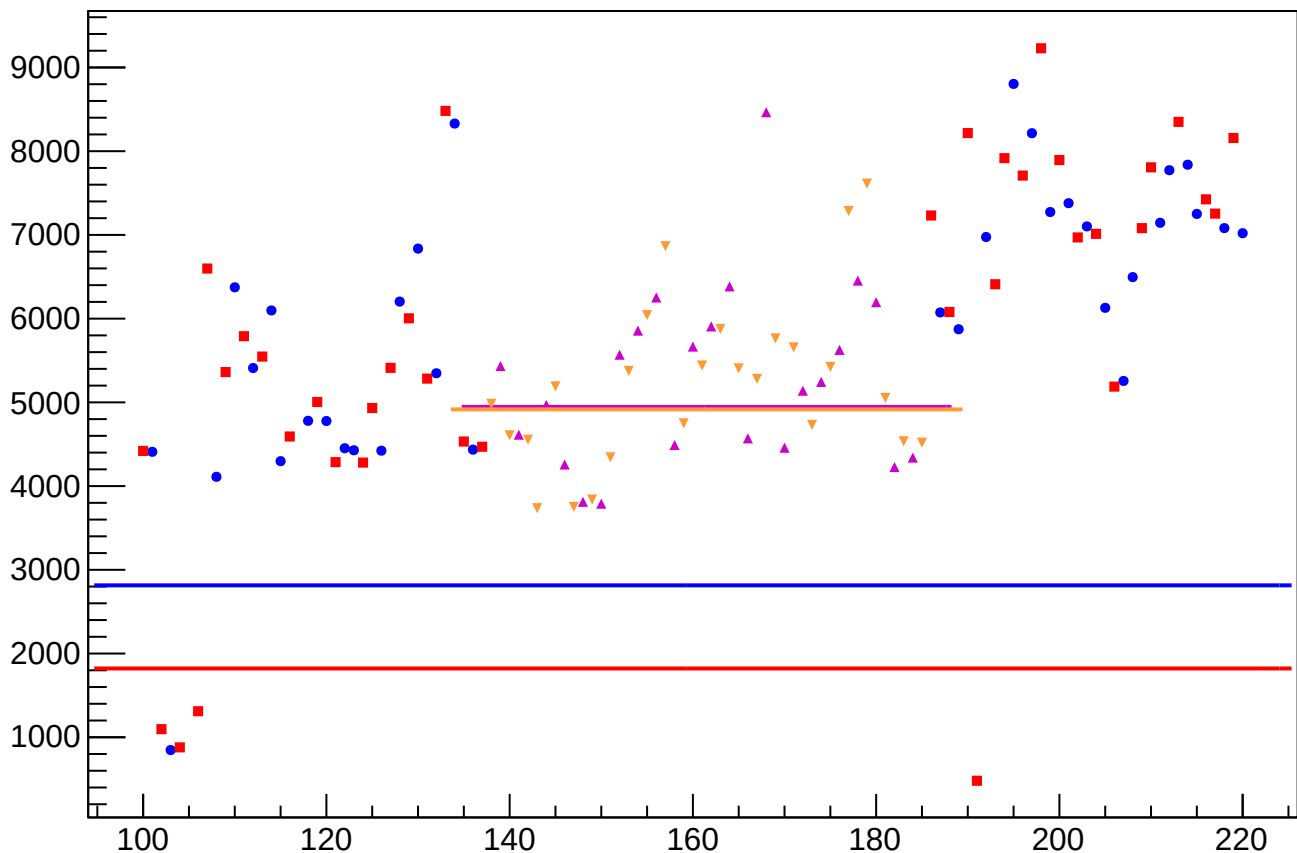
Right: -1590.987 $\pm$ 532.944 χ^2 /NDF: 82.9/70

In: -26.934 $\pm$ 712.616 χ^2 /NDF:56.0/56

Out: -1773.676 $\pm$ 580.467 χ^2 /NDF:70.5/61

All: -1076.970 $\pm$ 450.055 χ^2 /NDF: 130.0/118

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2814.434+/-0.624 χ^2/NDF : 17373160.1/33

Left Out: 4915.865+/-0.827 χ^2/NDF : 1186479.7/24

Right Out: 1821.629+/-0.473 χ^2/NDF : 23034105.3/36

Left In: 4945.817+/-0.854 χ^2/NDF : 1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

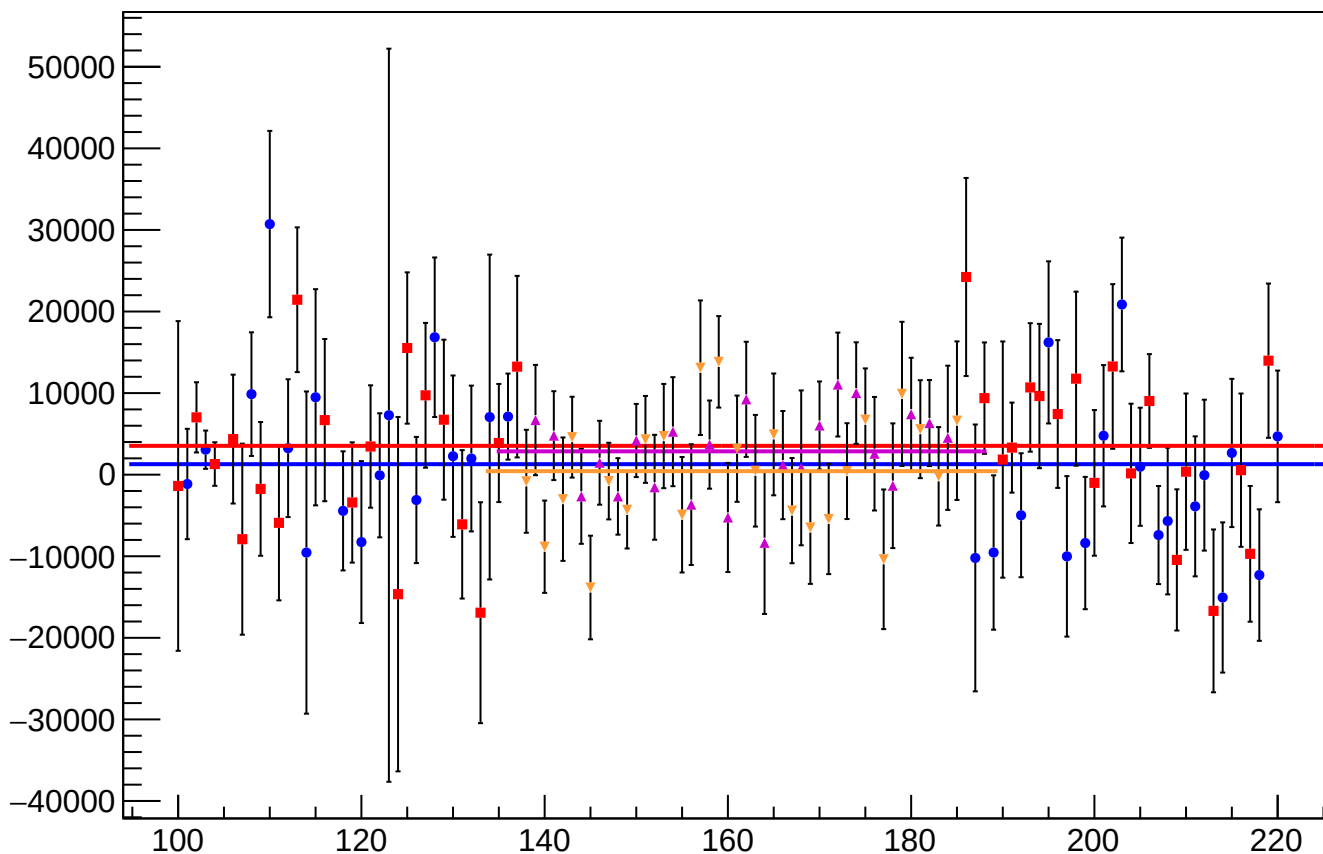
Right: 2183.514+/-0.377 χ^2/NDF : 42014987.8/70

In: 3556.776+/-0.504 χ^2/NDF : 22622501.6/56

Out: 2583.180+/-0.410 χ^2/NDF : 34765172.5/61

All: 2971.509+/-0.318 χ^2/NDF : 59631824.7/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1286.348+/-1268.681 χ^2/NDF : 37.7/33

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3534.352+/-1249.957 χ^2/NDF : 34.7/36

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

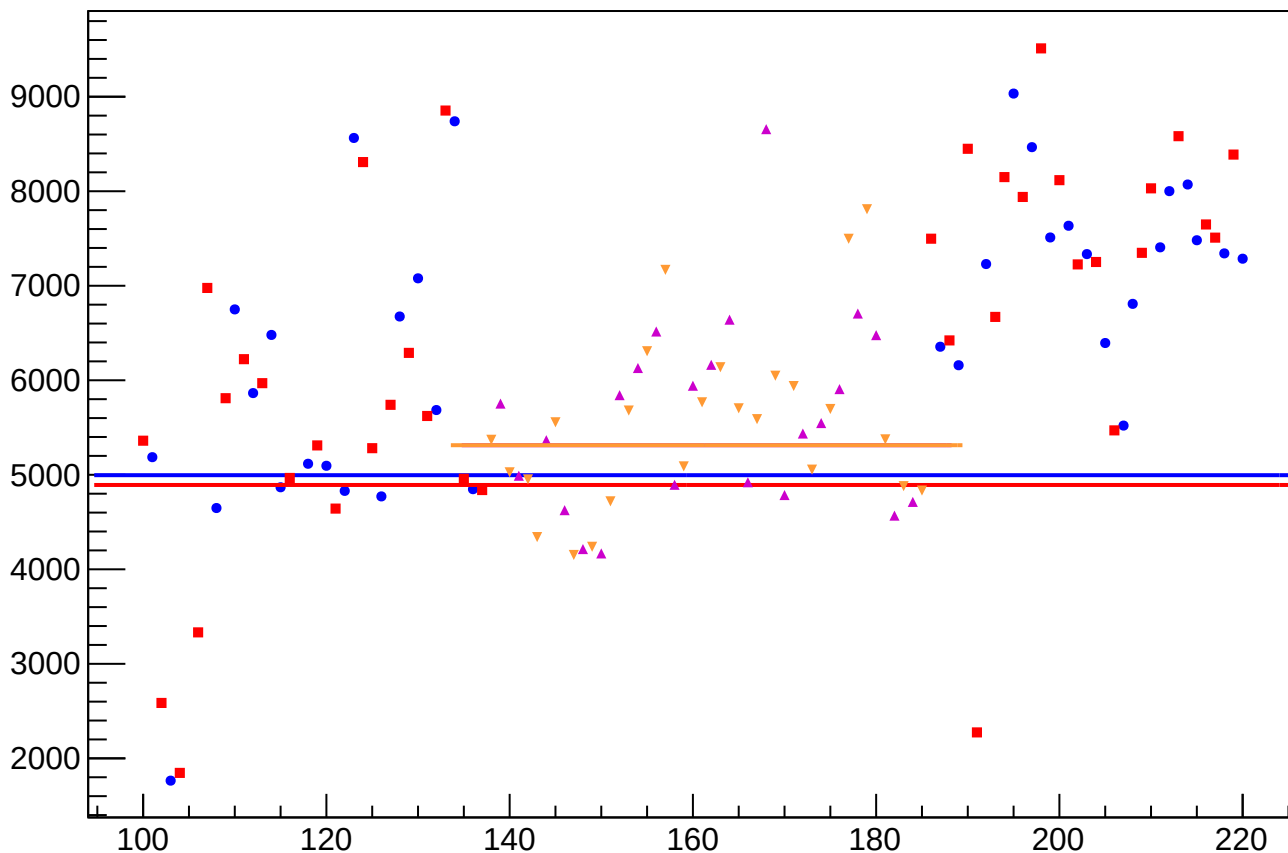
Right: 2427.061+/-890.399 χ^2/NDF : 74.0/70

In: 2058.768+/-905.338 χ^2/NDF : 51.4/56

Out: 1992.896+/-886.779 χ^2/NDF : 64.8/61

All: 2025.150+/-633.507 χ^2/NDF : 116.2/118

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4995.884 $\pm$ 0.897 χ^2 /NDF: 6712527.6/33

Left Out: 5313.008 $\pm$ 0.890 χ^2 /NDF:894369.8/24

Right Out: 4892.305 $\pm$ 0.880 χ^2 /NDF: 7318674.4/36

Left In: 5312.861 $\pm$ 0.914 χ^2 /NDF:957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2 /NDF: 1851770.5/47

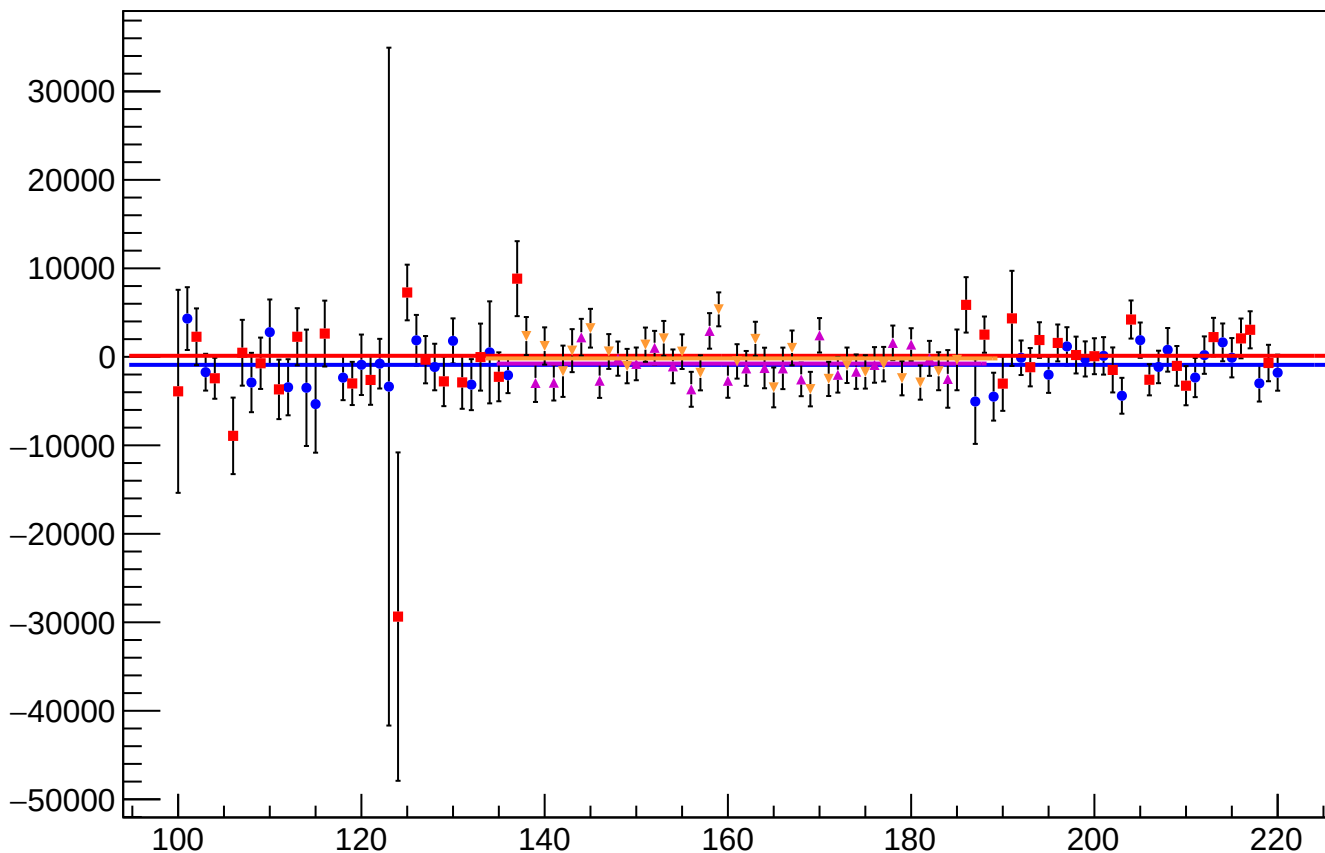
Right: 4943.115 $\pm$ 0.628 χ^2 /NDF: 14037993.6/70

In: 5151.446 $\pm$ 0.640 χ^2 /NDF:7731199.5/56

Out: 5100.410 $\pm$ 0.626 χ^2 /NDF:8326027.5/61

All: 5125.348 $\pm$ 0.447 χ^2 /NDF: 16060477.1/131

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -905.771 $\pm$ 427.825 χ^2 /NDF: 21.6/33

Left Out: -179.794 $\pm$ 410.976 χ^2 /NDF:29.3/24

Right Out: 118.746 $\pm$ 428.741 χ^2 /NDF: 46.6/36

Left In: -759.753 $\pm$ 419.905 χ^2 /NDF:20.3/22

Left: -463.542 $\pm$ 293.710 χ^2 /NDF: 50.5/47

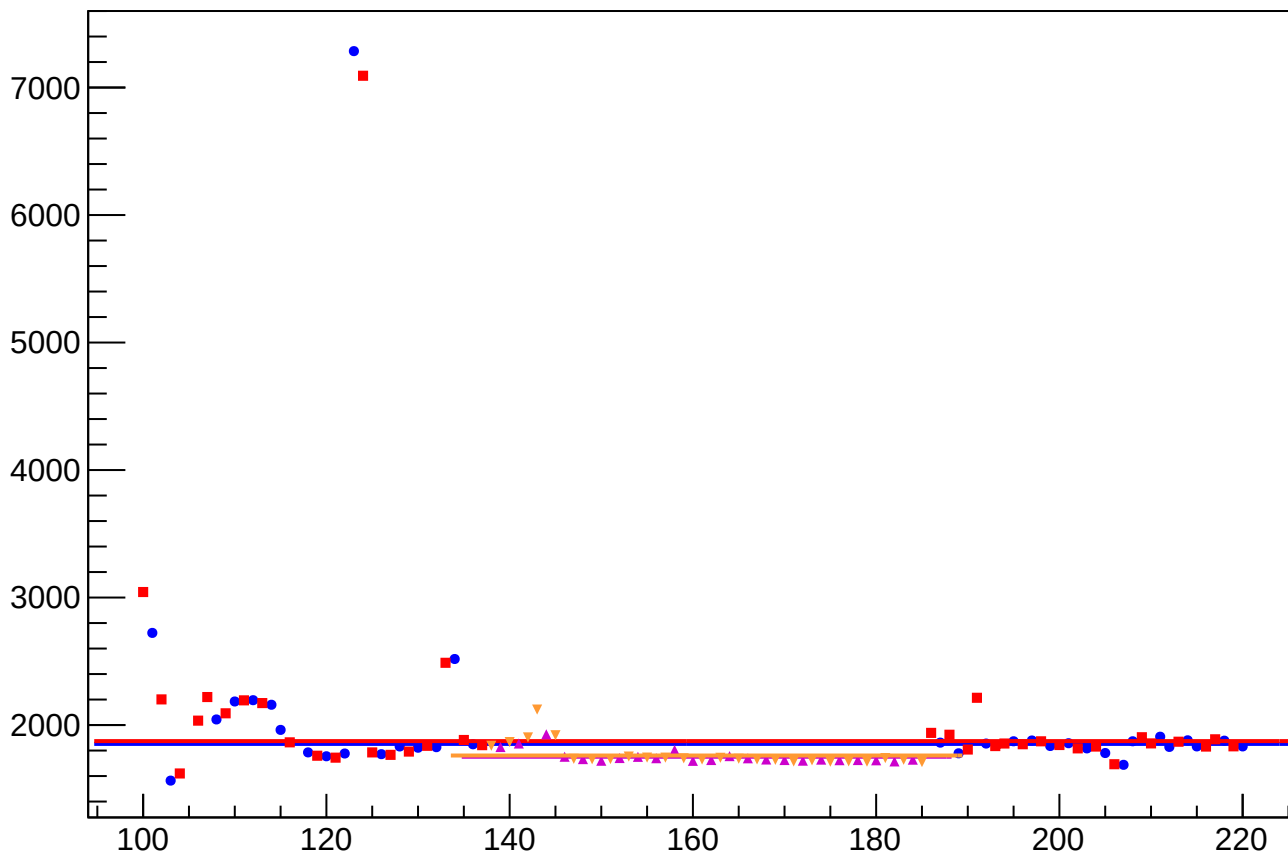
Right: -394.608 $\pm$ 302.841 χ^2 /NDF: 71.1/70

In: -831.398 $\pm$ 299.679 χ^2 /NDF:42.0/56

Out: -36.837 $\pm$ 296.686 χ^2 /NDF:76.1/61

All: -430.130 $\pm$ 210.839 χ^2 /NDF: 121.7/118

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1852.088 $\pm$ 0.303 χ^2 /NDF: 307572.8/33

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1874.059 $\pm$ 0.303 χ^2 /NDF: 396562.2/36

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

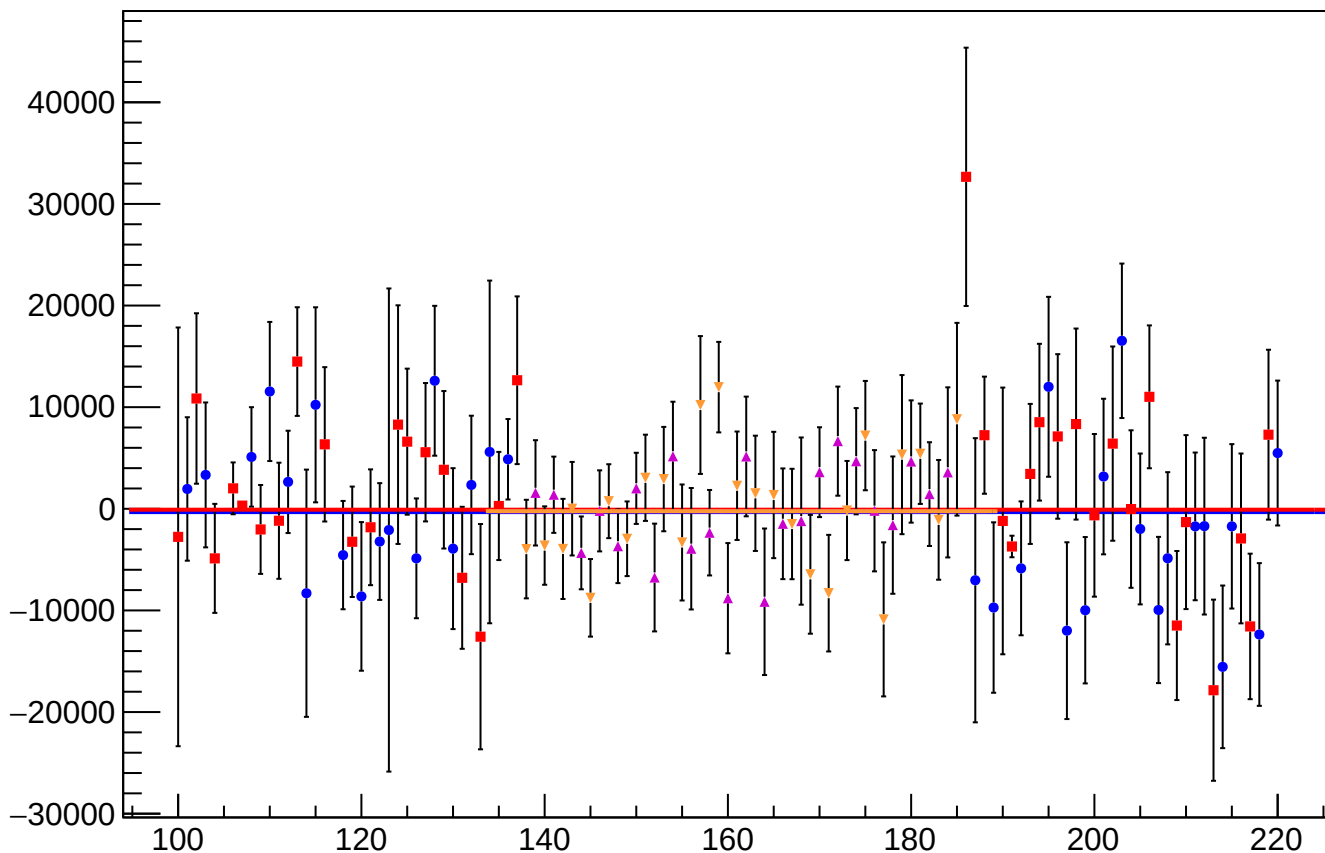
Right: 1863.056 $\pm$ 0.214 χ^2 /NDF: 706768.3/70

In: 1800.812 $\pm$ 0.212 χ^2 /NDF: 392555.1/56

Out: 1815.216 $\pm$ 0.210 χ^2 /NDF: 546433.3/61

All: 1808.088 $\pm$ 0.149 χ^2 /NDF: 941322.3/118

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -325.175+/-1217.765 χ^2/NDF : 37.0/33

Left Out: -235.806+/-1005.144 χ^2/NDF :28.9/24

Right Out: -87.452+/-407.907 χ^2/NDF : 55.5/36

Left In: -239.224+/-1028.883 χ^2/NDF :15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

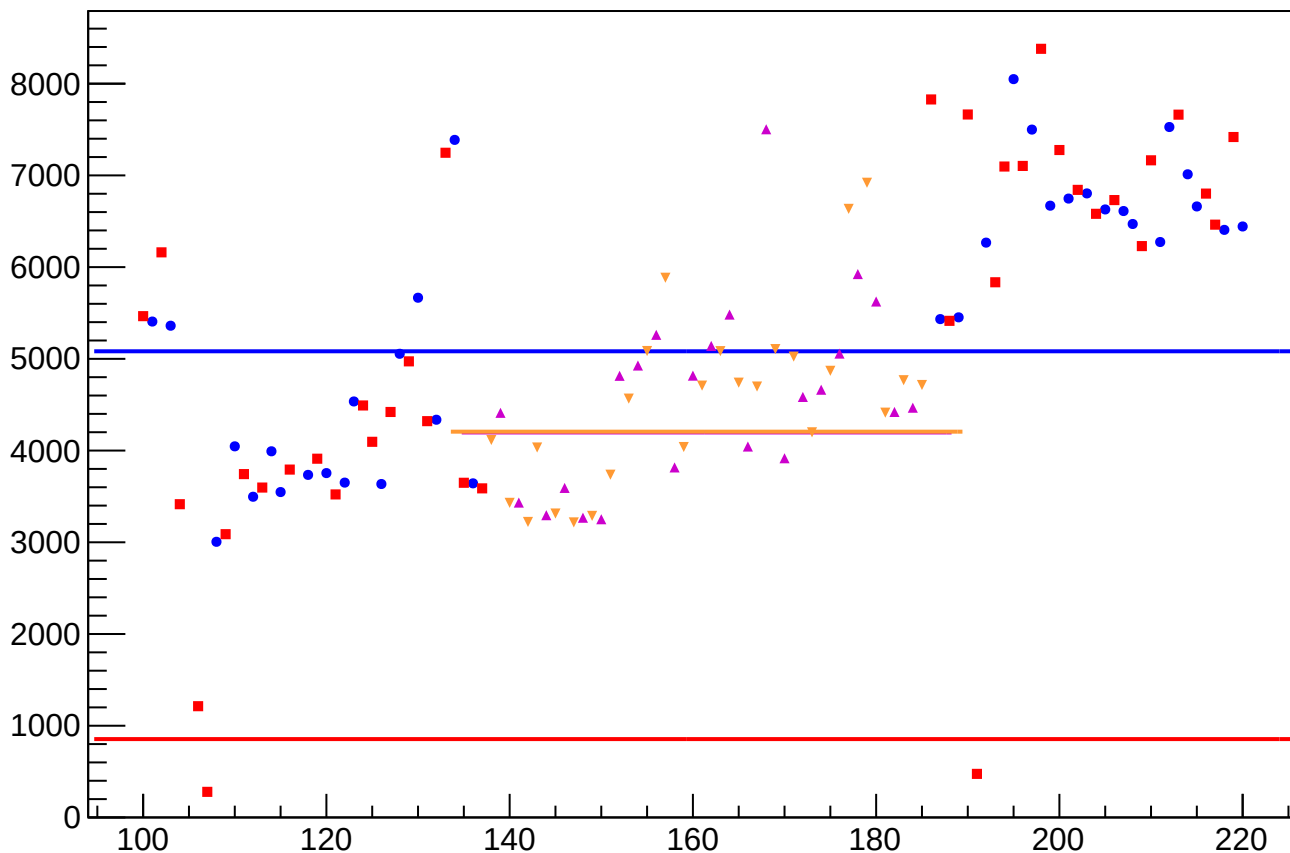
Right: -111.434+/-386.785 χ^2/NDF : 92.5/70

In: -275.024+/-785.923 χ^2/NDF :52.3/56

Out: -108.429+/-377.969 χ^2/NDF :84.4/61

All: -139.723+/-340.625 χ^2/NDF : 136.7/118

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 5082.393+/-0.861 χ^2/NDF : 2977845.6/33

Left Out: 4206.076+/-0.711 χ^2/NDF : 1442269.3/24

Right Out: 854.396+/-0.288 χ^2/NDF : 29662867.7/36

Left In: 4197.267+/-0.728 χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

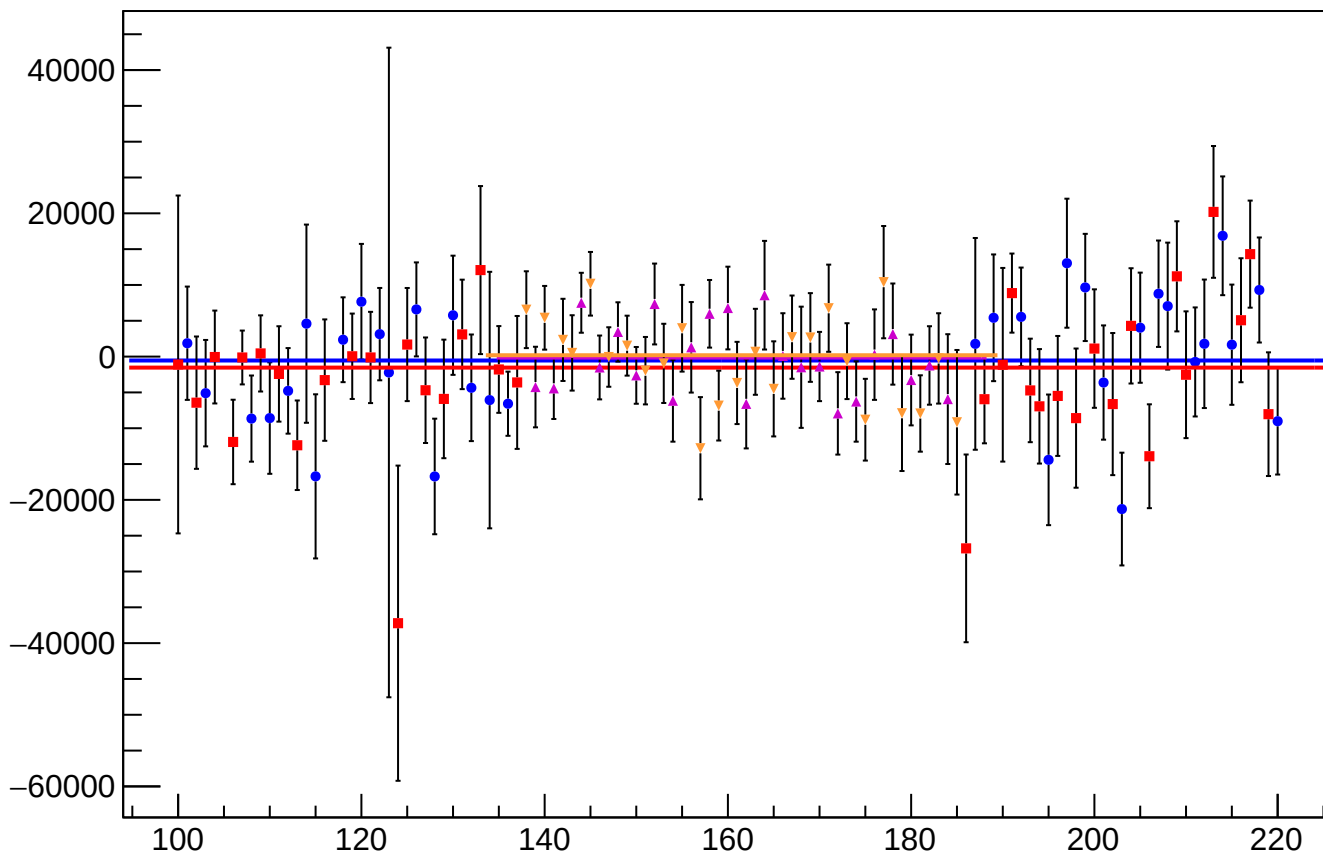
Right: 1280.923+/-0.273 χ^2/NDF : 54317210.8/70

In: 4565.938+/-0.556 χ^2/NDF : 5065369.4/56

Out: 1328.330+/-0.267 χ^2/NDF : 50198776.8/61

All: 1936.488+/-0.241 χ^2/NDF : 82829199.3/1

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -544.247 ± 1327.970 $\chi^2/\text{NDF}: 40.7/33$

Left Out: 189.721 ± 1106.851 $\chi^2/\text{NDF}: 25.0/24$

Right Out: -1536.192 ± 1215.174 $\chi^2/\text{NDF}: 38.9/36$

Left In: -137.477 ± 1129.656 $\chi^2/\text{NDF}: 18.6/22$

Left: 29.458 ± 790.601 $\chi^2/\text{NDF}: 43.6/47$

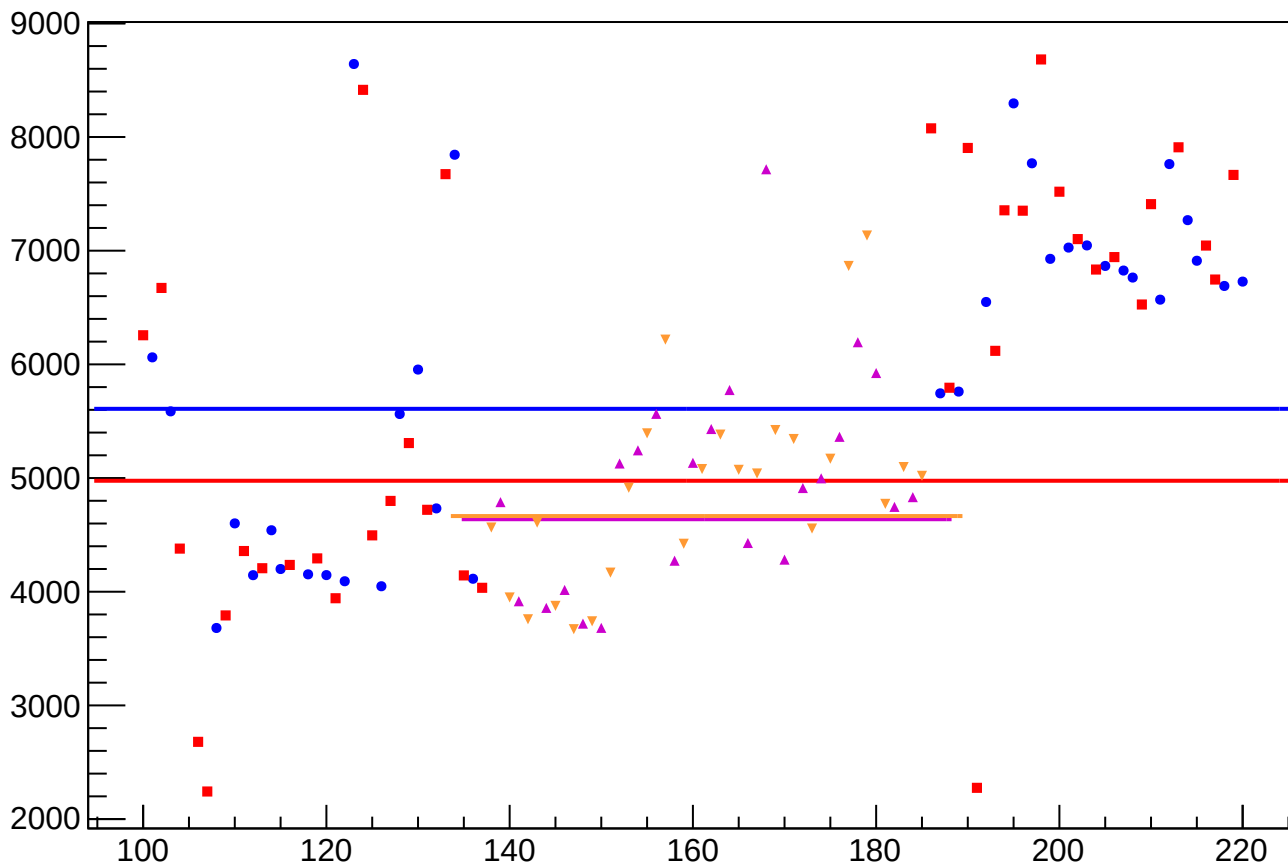
Right: -1084.129 ± 896.487 $\chi^2/\text{NDF}: 79.8/70$

In: -308.251 ± 860.447 $\chi^2/\text{NDF}: 59.3/56$

Out: -592.896 ± 818.283 $\chi^2/\text{NDF}: 65.0/61$

All: -457.718 ± 592.960 $\chi^2/\text{NDF}: 124.3/118$

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5608.908 ± 0.939 $\chi^2/\text{NDF}: 2136476.8/33$

Left Out: 4665.620 ± 0.783 $\chi^2/\text{NDF}: 1017235.0/24$

Right Out: 4976.127 ± 0.856 $\chi^2/\text{NDF}: 4765989.1/36$

Left In: 4637.777 ± 0.799 $\chi^2/\text{NDF}: 1065217.2/22$

Left: 4651.983 ± 0.559 $\chi^2/\text{NDF}: 2083072.1/47$

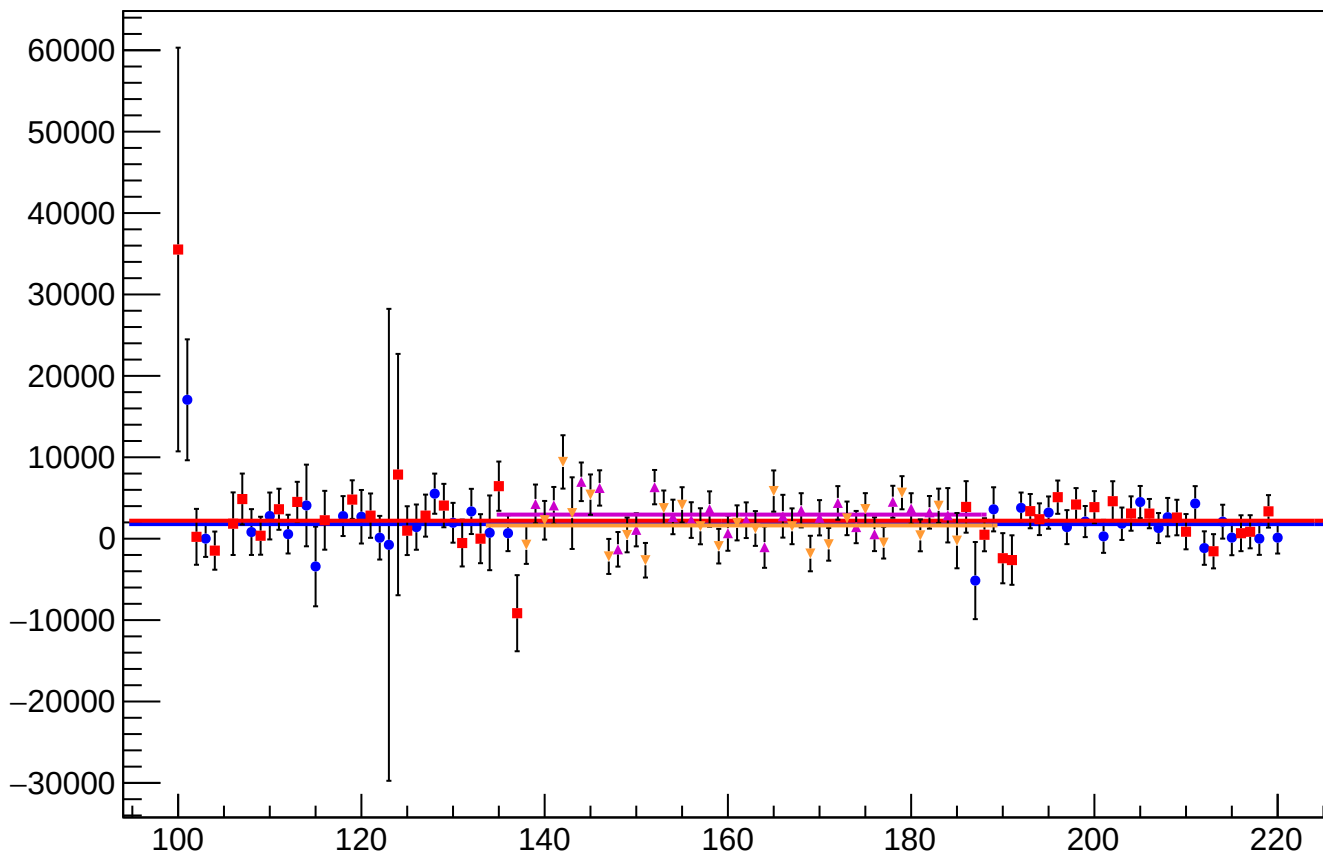
Right: 5263.306 ± 0.633 $\chi^2/\text{NDF}: 7150483.7/70$

In: 5045.486 ± 0.608 $\chi^2/\text{NDF}: 3822227.3/56$

Out: 4807.009 ± 0.578 $\chi^2/\text{NDF}: 5854894.2/61$

All: 4920.055 ± 0.419 $\chi^2/\text{NDF}: 9757925.7/11$

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1790.008+/-414.316 χ^2/NDF : 22.8/33

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2208.883+/-409.636 χ^2/NDF : 34.6/36

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

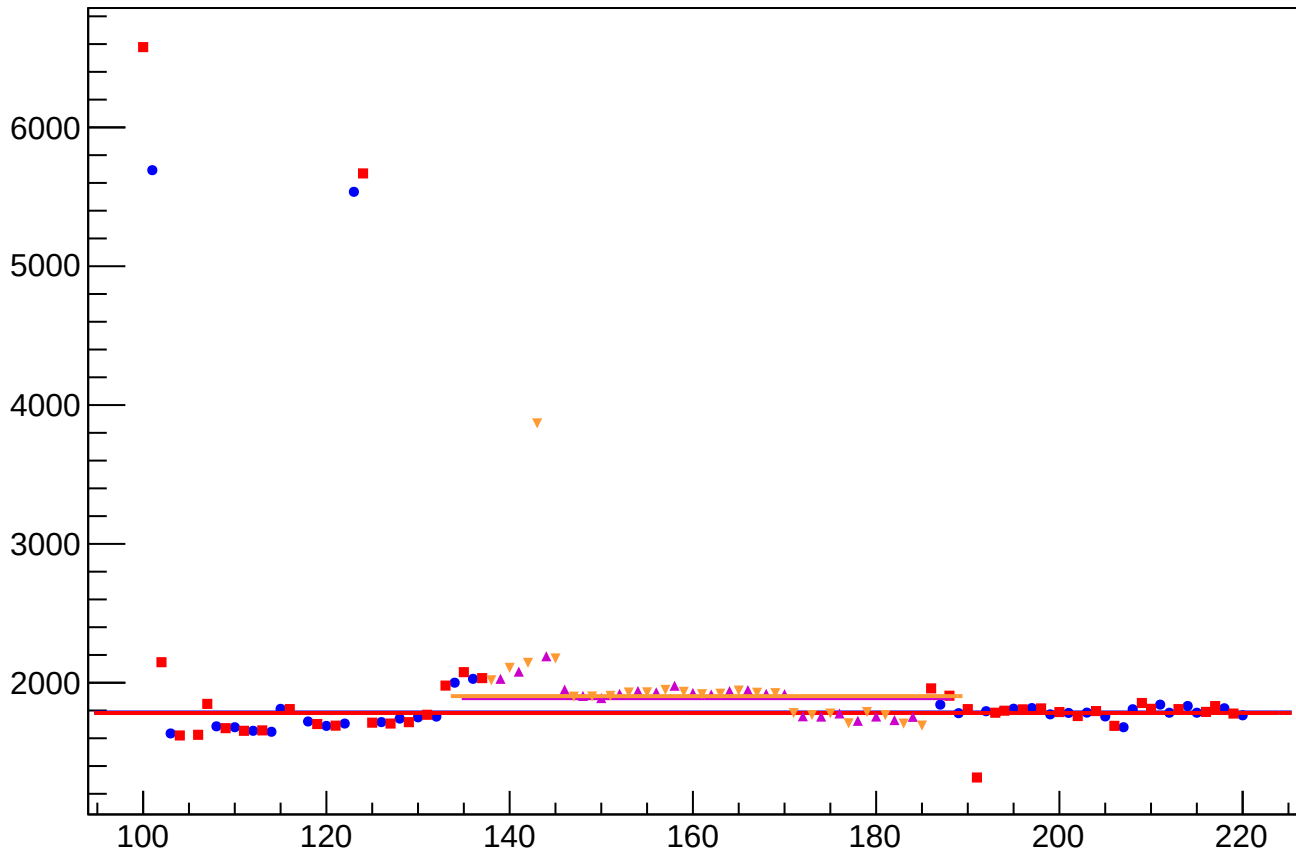
Right: 2001.825+/-291.297 χ^2/NDF : 57.9/70

In: 2321.415+/-305.940 χ^2/NDF : 46.8/56

Out: 1944.699+/-302.023 χ^2/NDF : 70.9/61

All: 2130.630+/-214.934 χ^2/NDF : 118.5/118

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.701 $\pm$ 0.293 χ^2 /NDF: 656277.6/33

Left Out: 1903.618 $\pm$ 0.316 χ^2 /NDF: 541575.7/24

Right Out: 1782.349 $\pm$ 0.289 χ^2 /NDF: 378336.8/36

Left In: 1888.927 $\pm$ 0.321 χ^2 /NDF: 126417.2/22

Left: 1896.381 $\pm$ 0.225 χ^2 /NDF: 669056.9/47

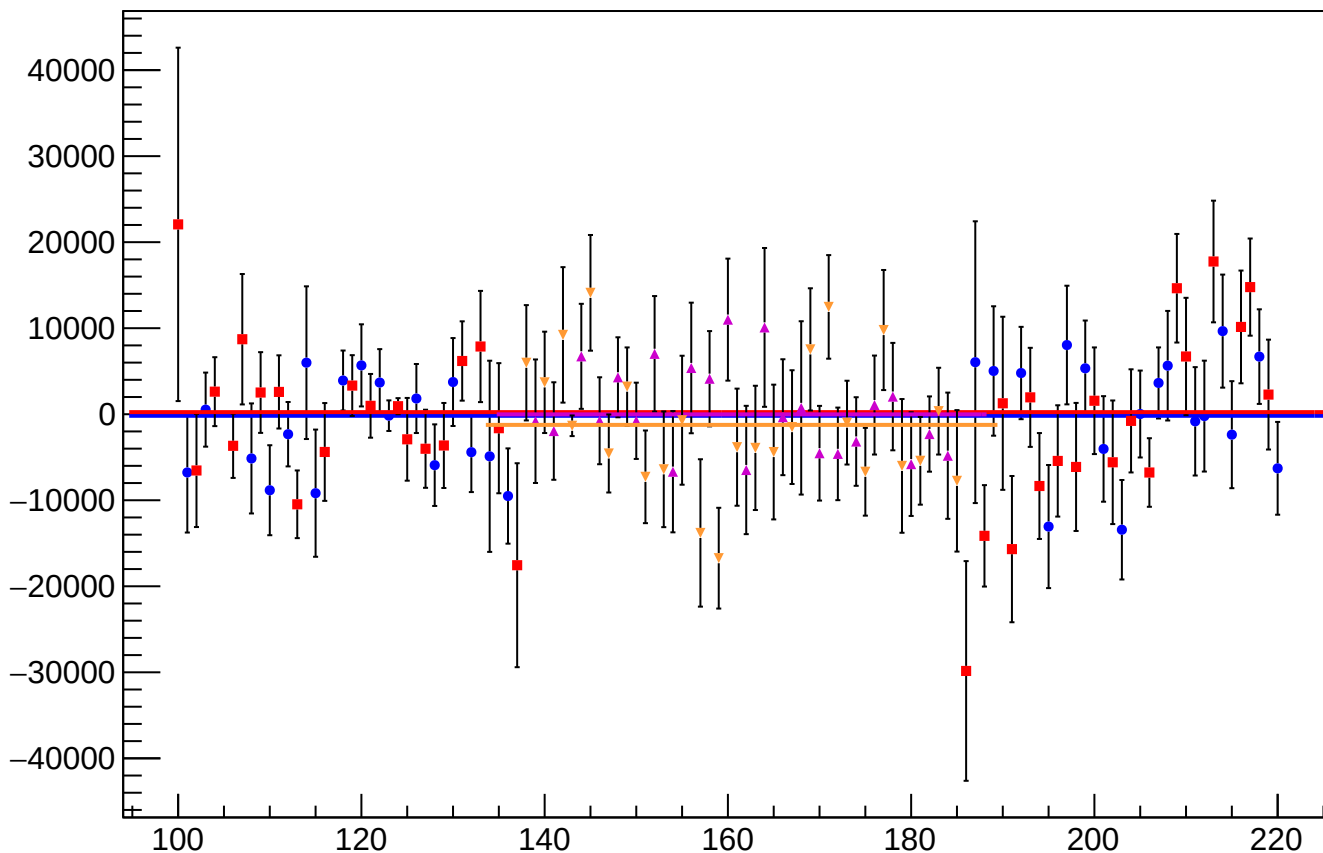
Right: 1784.002 $\pm$ 0.206 χ^2 /NDF: 1034680.8/70

In: 1832.641 $\pm$ 0.216 χ^2 /NDF: 839150.1/56

Out: 1837.547 $\pm$ 0.213 χ^2 /NDF: 1000090.7/61

All: 1835.129 $\pm$ 0.152 χ^2 /NDF: 1839501.6/111

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -181.629 ± 829.833 χ^2/NDF : 36.3/33

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: 244.576 ± 654.148 χ^2/NDF : 65.8/36

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

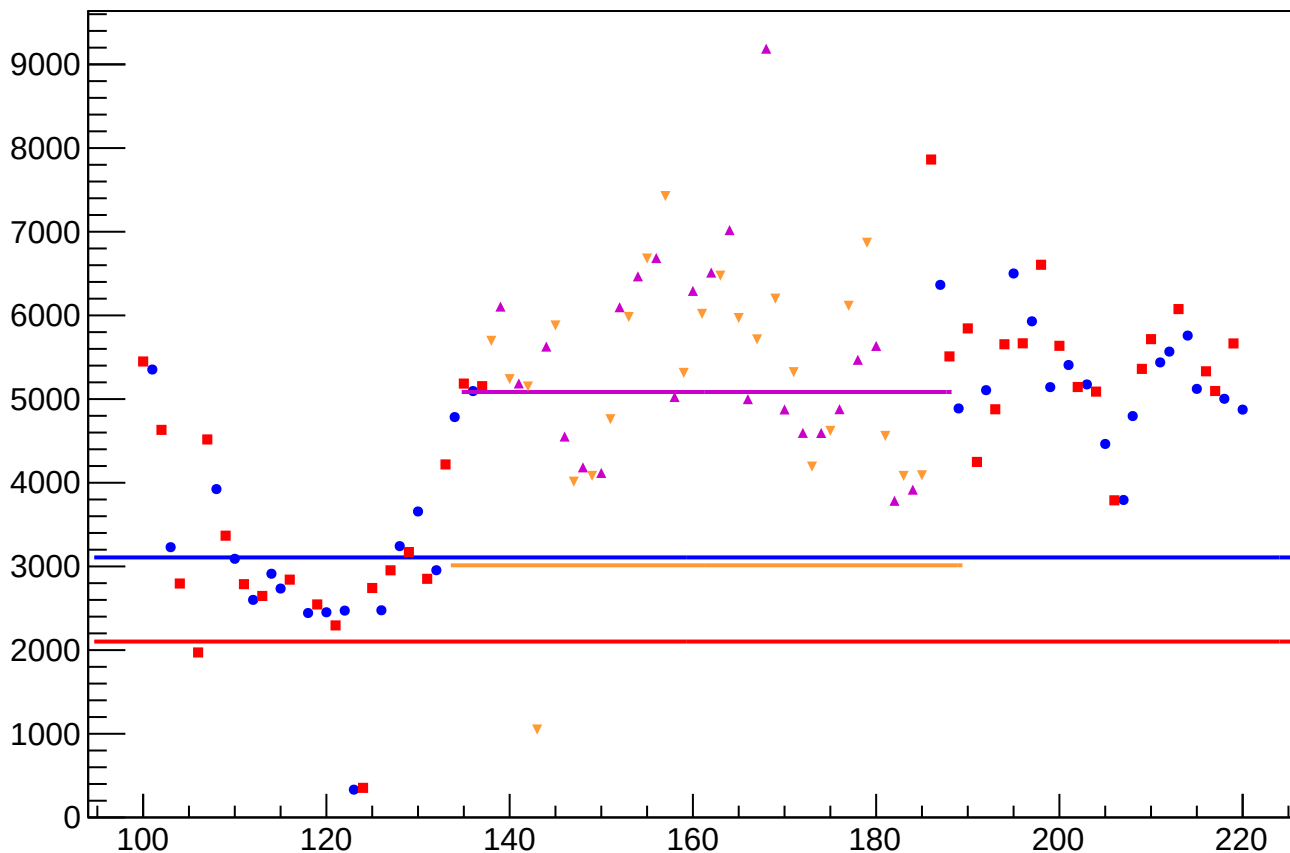
Right: 81.233 ± 513.726 χ^2/NDF : 102.2/70

In: -130.543 ± 690.218 χ^2/NDF : 49.5/56

Out: -295.333 ± 521.796 χ^2/NDF : 101.6/61

All: -235.403 ± 416.237 χ^2/NDF : 151.1/118

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3107.663 $\pm$ 0.587

χ^2 /NDF: 9650473.4/33

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: 2487.594 $\pm$ 0.363

χ^2 /NDF: 29515389.8/70

Right Out: 2102.282 $\pm$ 0.463

χ^2 /NDF: 18054328.0/36

In: 3716.935 $\pm$ 0.488

χ^2 /NDF: 14452406.8/56

Out: 2433.626 $\pm$ 0.369

χ^2 /NDF: 31735888.4/61

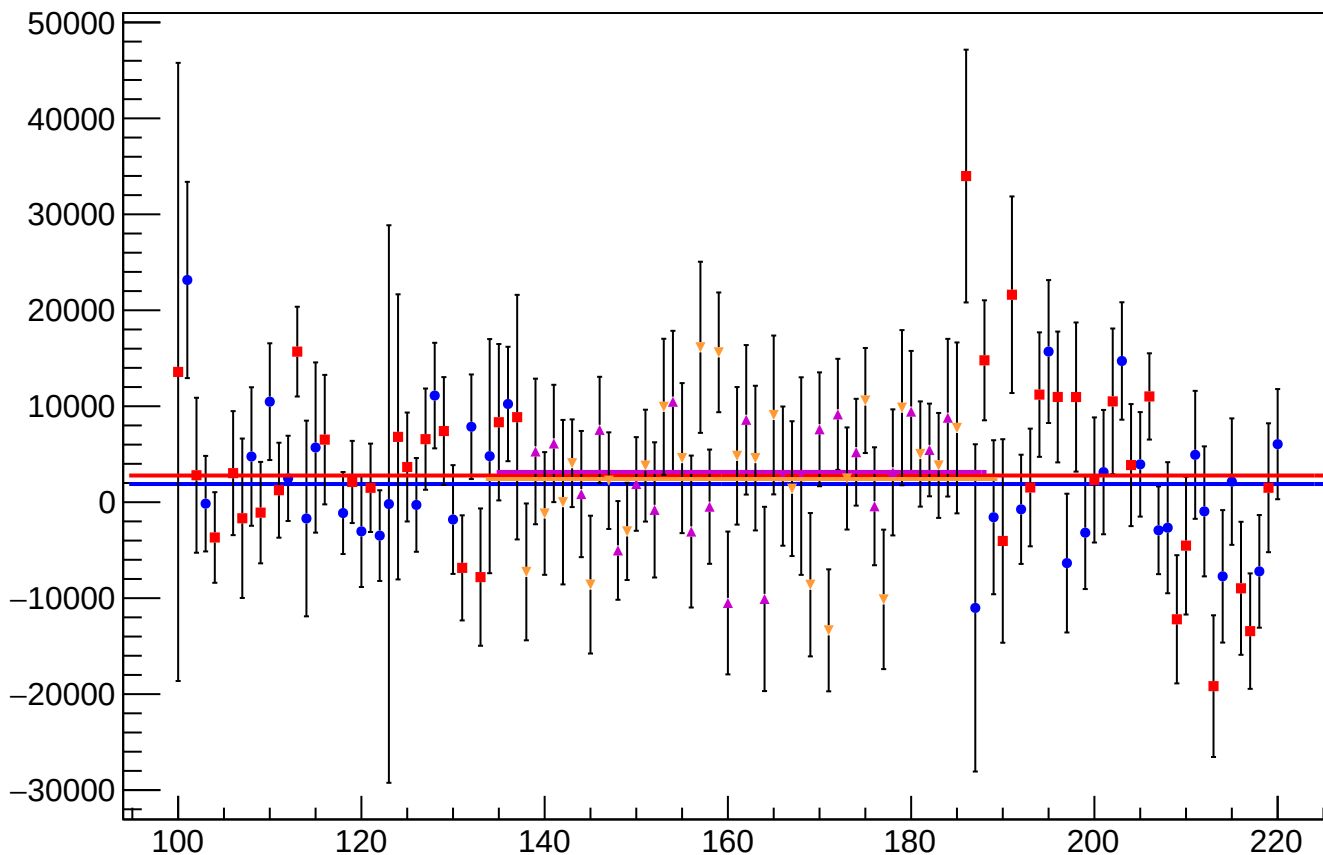
Left In: 5084.645 $\pm$ 0.879

χ^2 /NDF: 1303587.7/22

All: 2900.329 $\pm$ 0.294

χ^2 /NDF: 50587773.5/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1894.073+/-1059.185 χ^2/NDF : 34.0/33

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 2781.594+/-1050.069 χ^2/NDF : 65.1/36

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

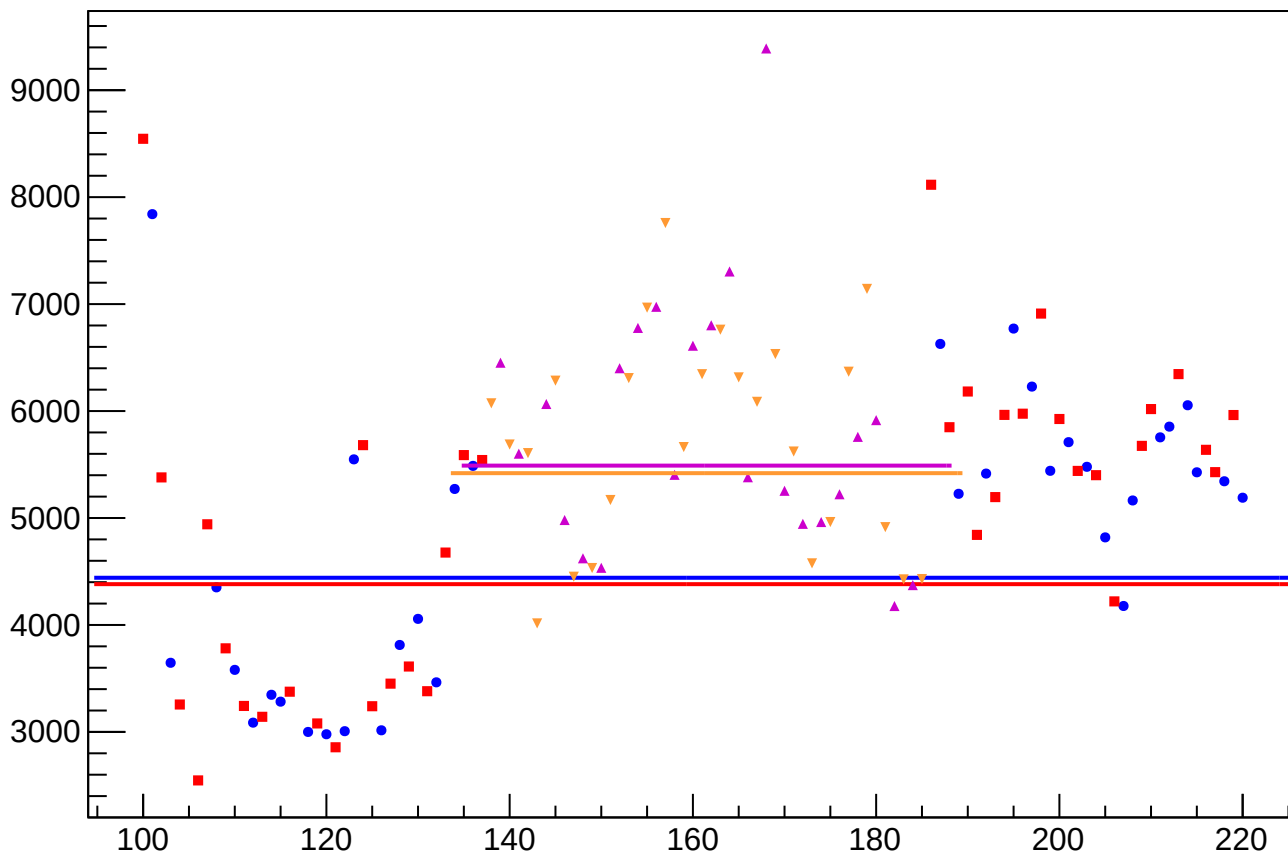
Right: 2341.669+/-745.713 χ^2/NDF : 99.4/70

In: 2379.516+/-830.320 χ^2/NDF : 50.0/56

Out: 2635.897+/-813.485 χ^2/NDF : 95.0/61

All: 2510.332+/-581.082 χ^2/NDF : 145.1/118

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4441.398 ± 0.749 $\chi^2/\text{NDF}: 2497725.8/33$

Left Out: 5419.305 ± 0.910 $\chi^2/\text{NDF}: 1109972.1/24$

Right Out: 4381.550 ± 0.736 $\chi^2/\text{NDF}: 3066813.0/36$

Left In: 5489.885 ± 0.946 $\chi^2/\text{NDF}: 1064353.3/22$

Left: 5453.227 ± 0.656 $\chi^2/\text{NDF}: 2177218.7/47$

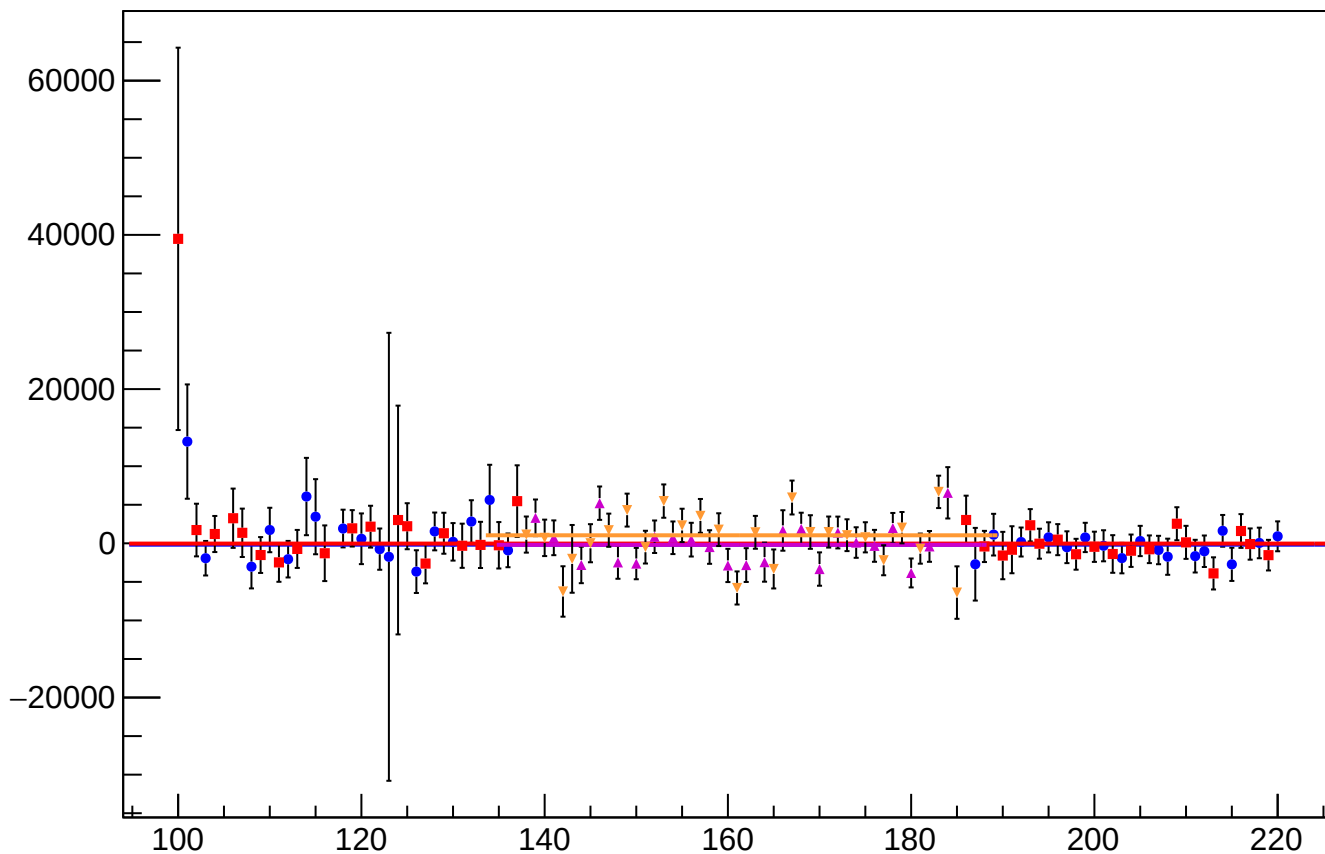
Right: 4410.971 ± 0.525 $\chi^2/\text{NDF}: 5567785.1/70$

In: 4845.549 ± 0.587 $\chi^2/\text{NDF}: 4317514.1/56$

Out: 4792.432 ± 0.572 $\chi^2/\text{NDF}: 4962919.8/61$

All: 4818.316 ± 0.410 $\chi^2/\text{NDF}: 9284630.3/11$

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -174.895 ± 412.083 $\chi^2/\text{NDF}: 19.5/33$

Left Out: 1041.262 ± 446.249 $\chi^2/\text{NDF}: 48.6/24$

Right Out: -35.406 ± 407.411 $\chi^2/\text{NDF}: 20.1/36$

Left In: -191.966 ± 453.055 $\chi^2/\text{NDF}: 30.0/22$

Left: 433.980 ± 317.925 $\chi^2/\text{NDF}: 82.3/47$

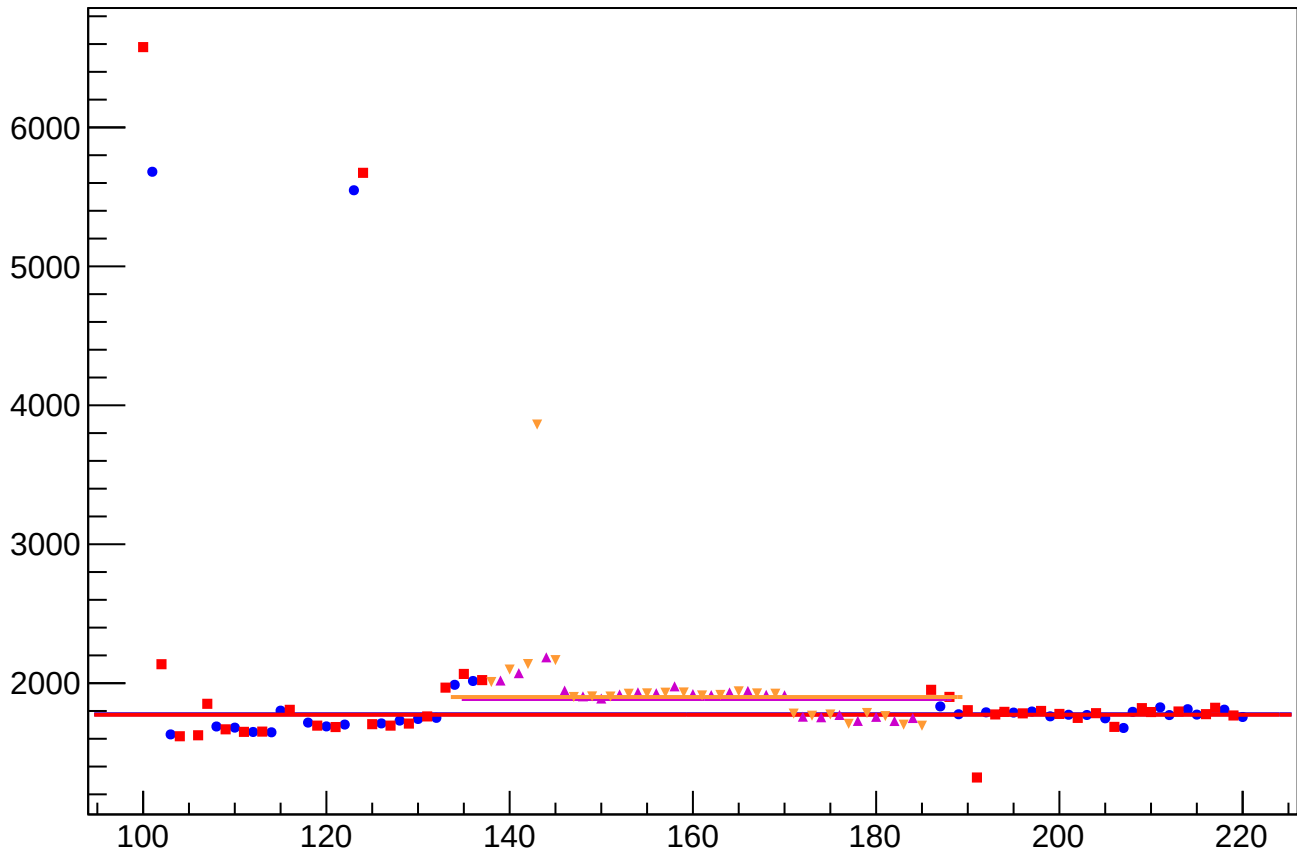
Right: -104.355 ± 289.721 $\chi^2/\text{NDF}: 39.7/70$

In: -182.624 ± 304.845 $\chi^2/\text{NDF}: 49.5/56$

Out: 454.045 ± 300.878 $\chi^2/\text{NDF}: 71.8/61$

All: 139.879 ± 214.142 $\chi^2/\text{NDF}: 123.6/118$

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1776.209+/-0.291 χ^2/NDF : 652587.9/33

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1772.915+/-0.287 χ^2/NDF : 372879.1/36

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

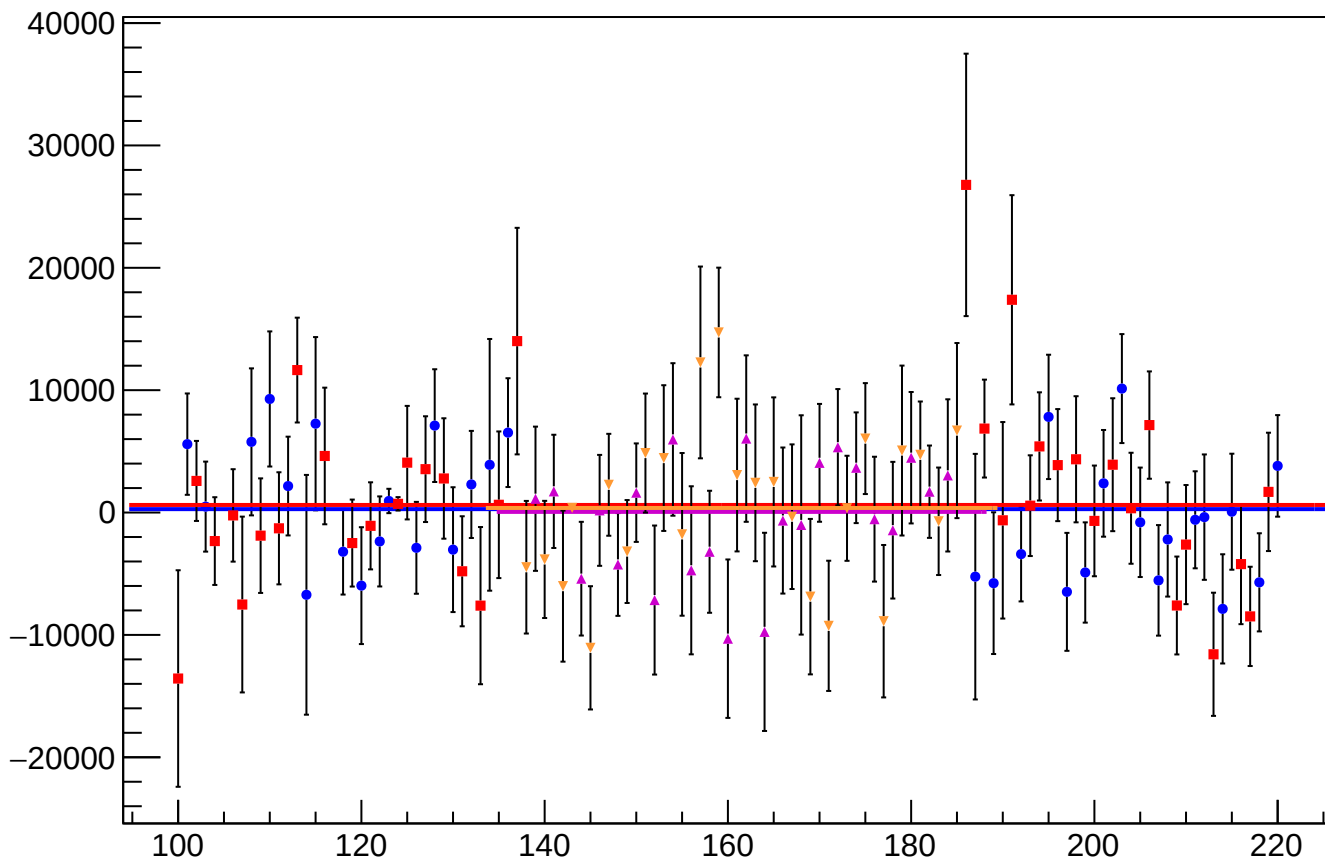
Right: 1774.539+/-0.205 χ^2/NDF : 1025531.8/70

In: 1826.088+/-0.216 χ^2/NDF : 840827.3/56

Out: 1830.667+/-0.212 χ^2/NDF : 999846.8/61

All: 1828.410+/-0.151 χ^2/NDF : 1840903.0/111

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 278.370+/-623.202 χ^2/NDF : 37.7/33

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 619.462+/-448.880 χ^2/NDF : 53.7/36

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

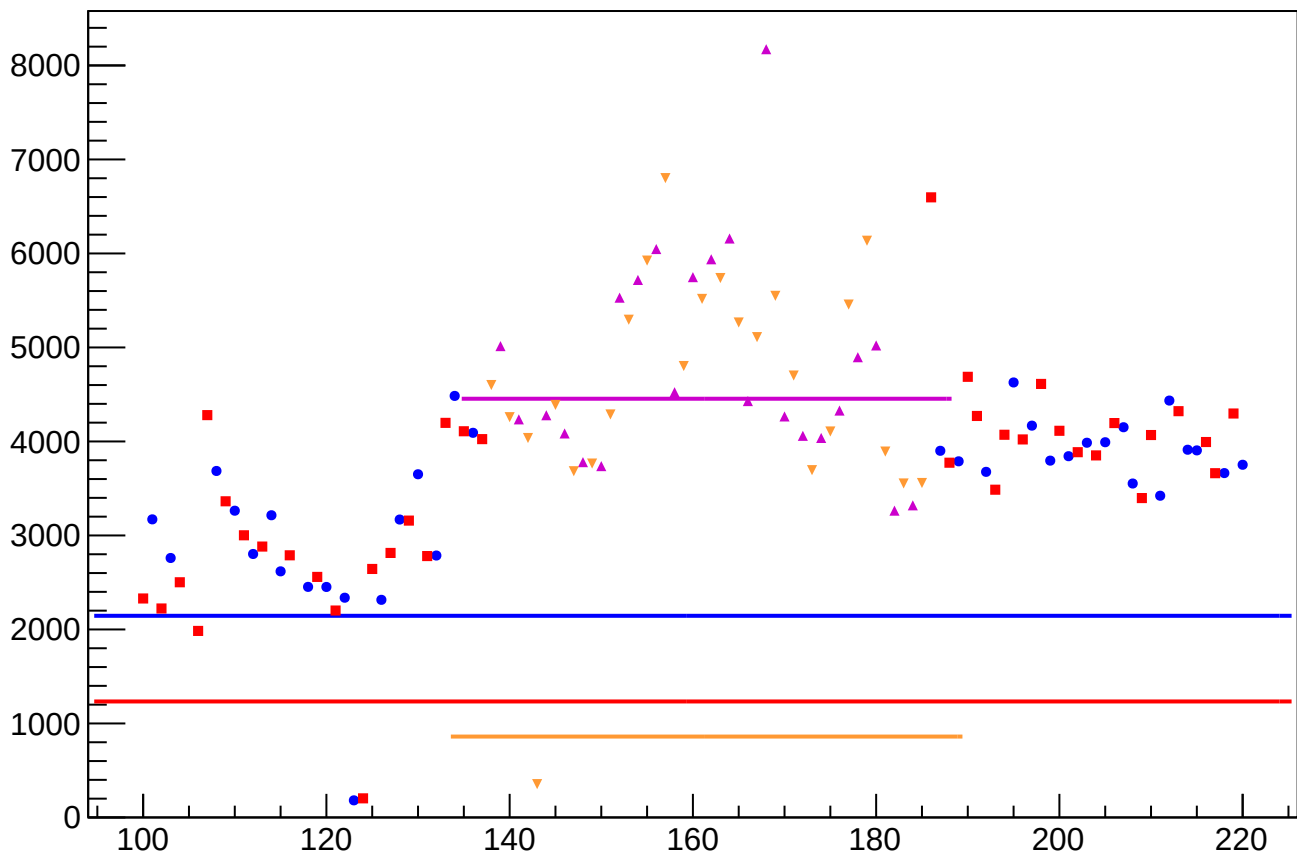
Right: 502.950+/-364.233 χ^2/NDF : 91.6/70

In: 222.864+/-541.004 χ^2/NDF :52.3/56

Out: 476.704+/-290.948 χ^2/NDF :84.7/61

All: 419.758+/-256.243 χ^2/NDF : 137.1/118

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2145.276+/-0.441 χ^2/NDF : 14131001.1/33

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 1233.984+/-0.317 χ^2/NDF : 23610248.0/36

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

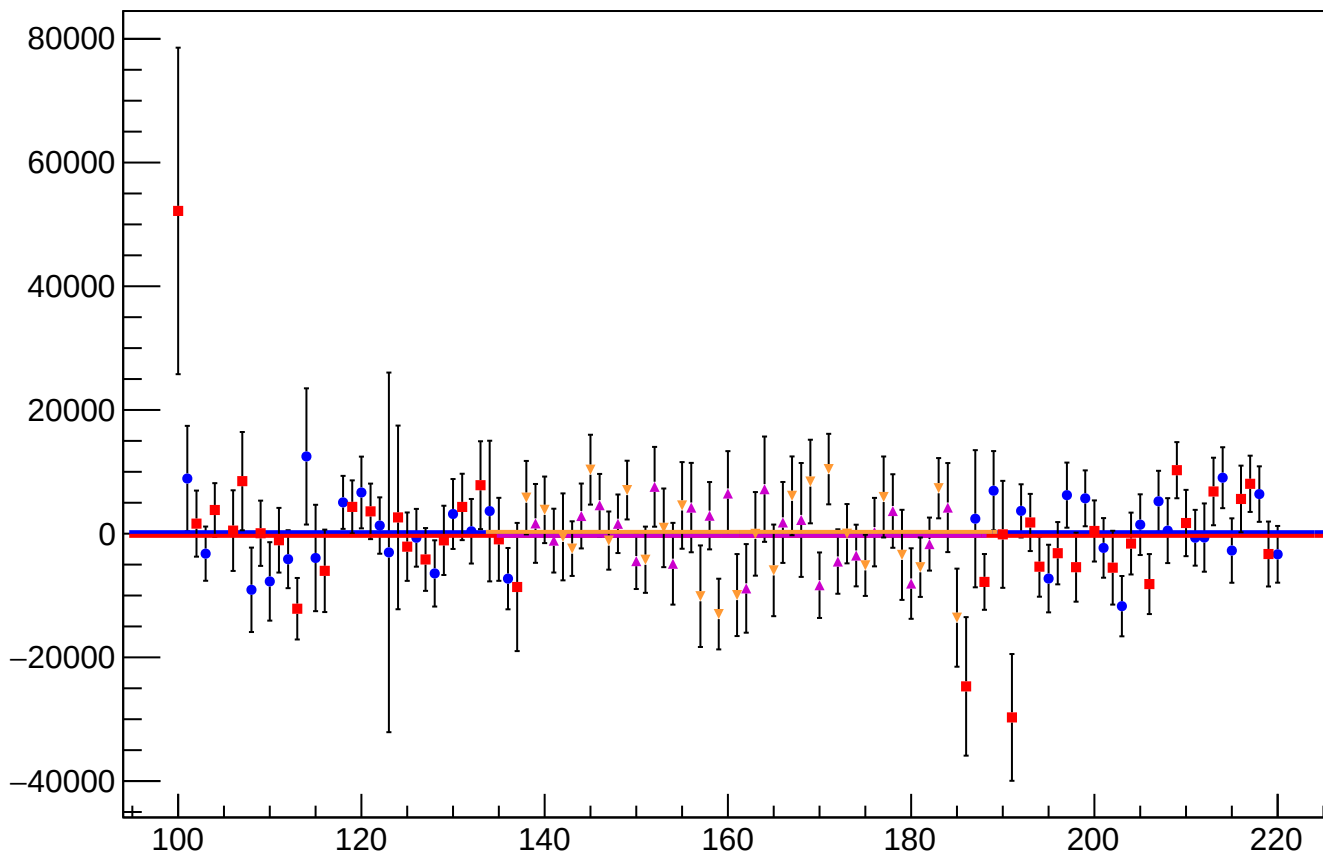
Right: 1545.269+/-0.258 χ^2/NDF : 40556944.7/70

In: 2714.239+/-0.383 χ^2/NDF : 22246321.1/56

Out: 1017.433+/-0.206 χ^2/NDF : 50753046.4/61

All: 1398.090+/-0.181 χ^2/NDF : 88259804.7/1

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 240.446 $\pm$ 921.954 χ^2 /NDF: 34.1/33

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -350.605 $\pm$ 916.346 χ^2 /NDF: 51.9/36

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

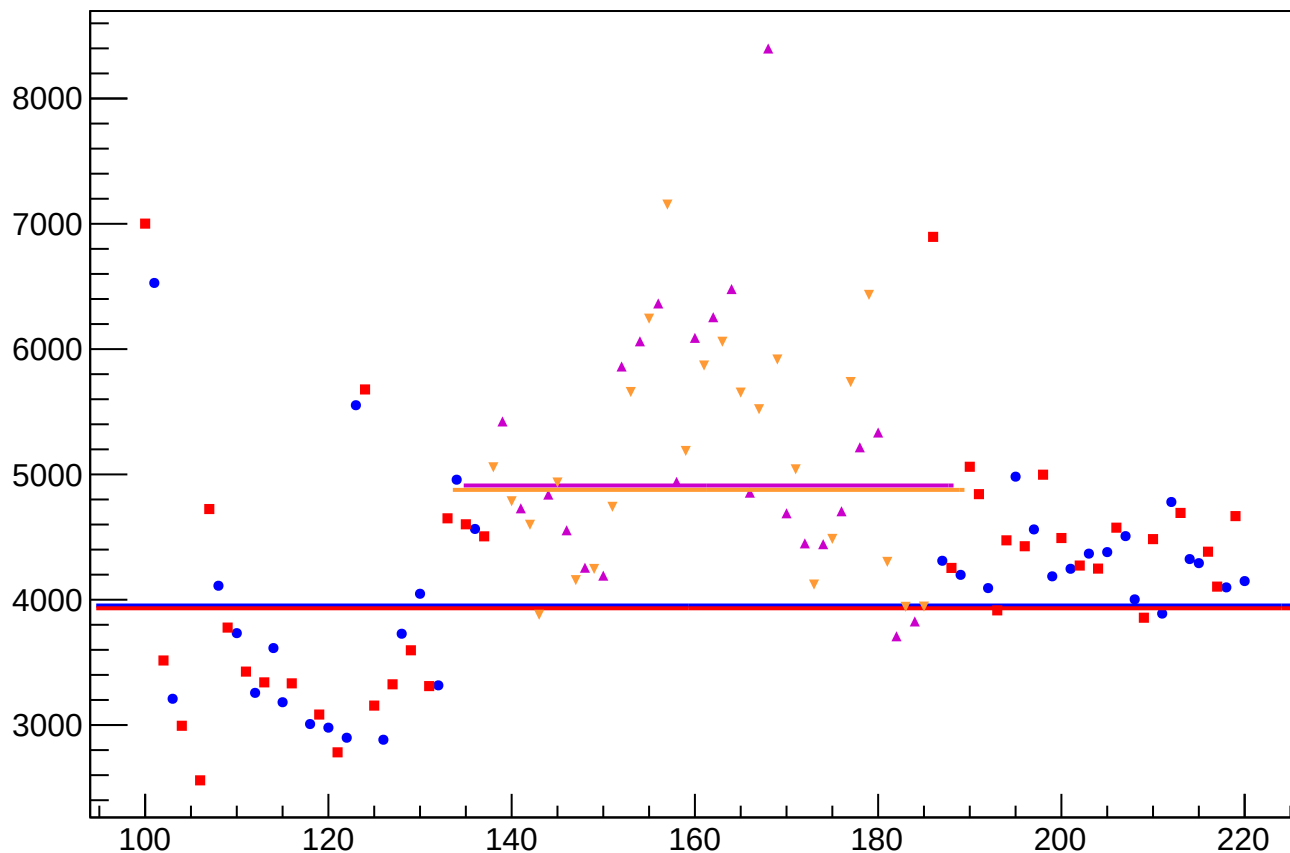
Right: -56.883 $\pm$ 649.928 χ^2 /NDF: 86.2/70

In: 26.894 $\pm$ 730.189 χ^2 /NDF:48.9/56

Out: -103.830 $\pm$ 717.961 χ^2 /NDF:84.4/61

All: -39.572 $\pm$ 511.944 χ^2 /NDF: 133.4/118

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3953.805 $\pm$ 0.652 χ^2 /NDF: 1001155.3/33

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF:972528.1/24

Right Out: 3931.581 $\pm$ 0.644 χ^2 /NDF: 1257883.0/36

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF:1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

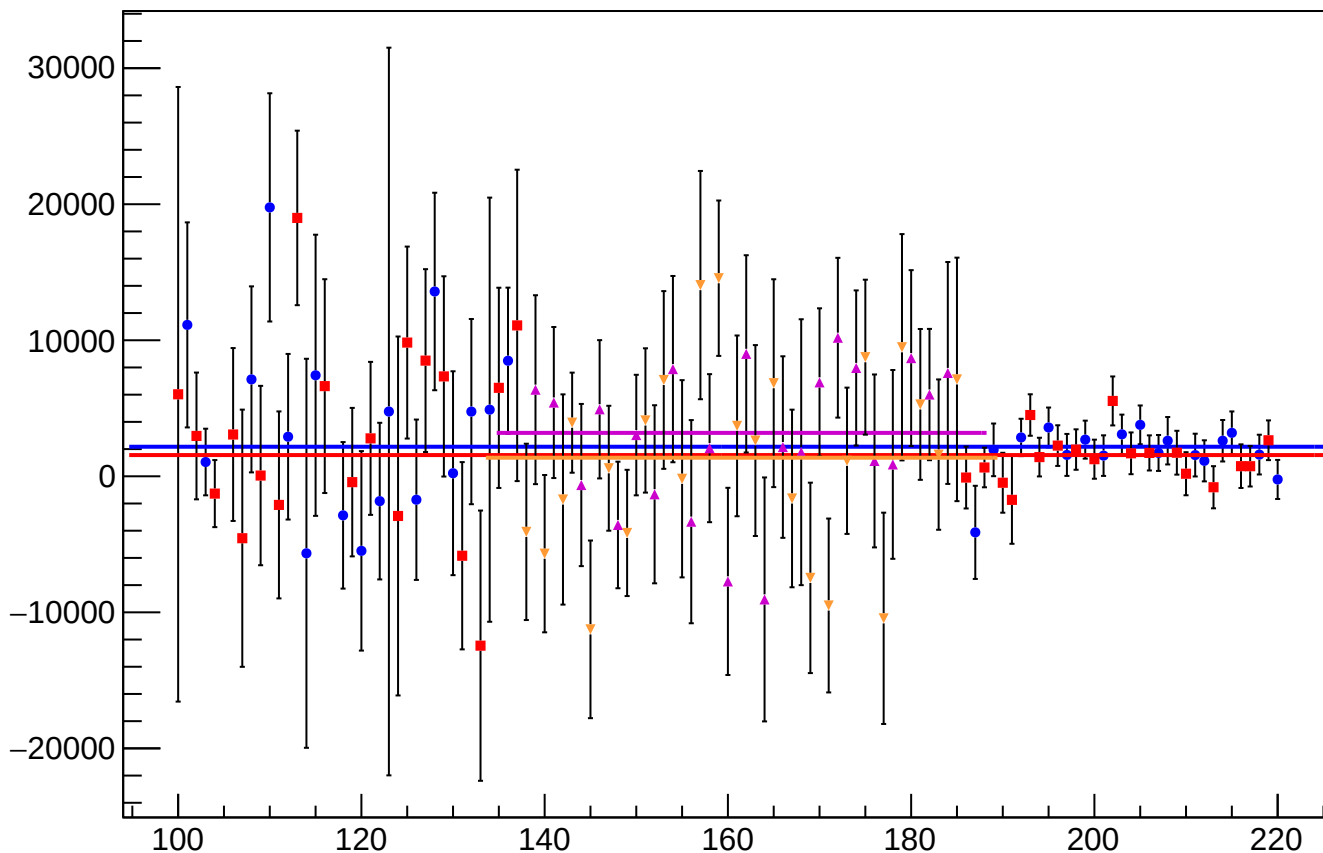
Right: 3942.556 $\pm$ 0.458 χ^2 /NDF: 2259626.6/70

In: 4310.787 $\pm$ 0.516 χ^2 /NDF:2848786.6/56

Out: 4293.670 $\pm$ 0.506 χ^2 /NDF:3055620.3/61

All: 4302.052 $\pm$ 0.361 χ^2 /NDF: 5904967.8/111

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2172.300+/-360.219 χ^2/NDF : 25.1/33

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1560.058+/-361.755 χ^2/NDF : 33.7/36

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

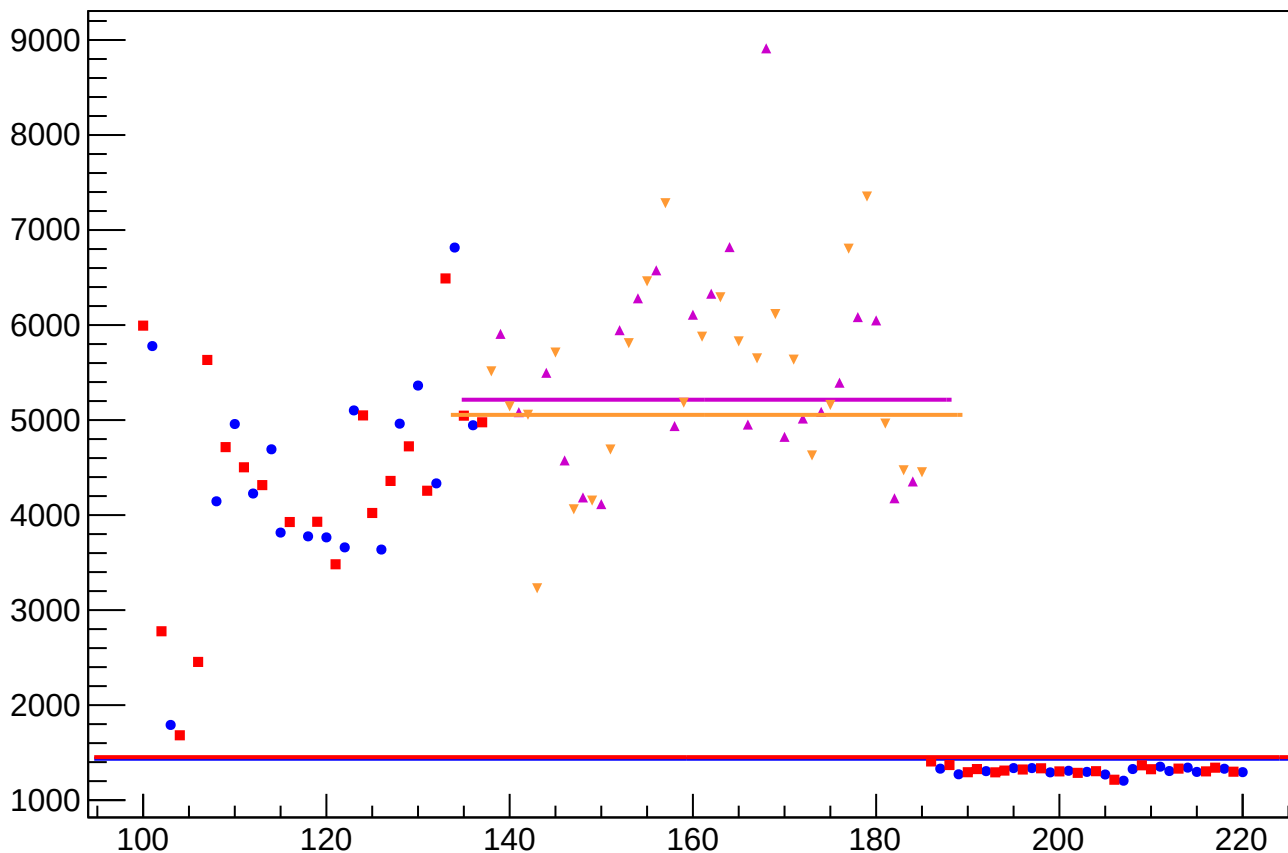
Right: 1867.481+/-255.255 χ^2/NDF : 60.3/70

In: 2248.162+/-346.549 χ^2/NDF : 39.7/56

Out: 1543.969+/-346.508 χ^2/NDF : 61.7/61

All: 1896.024+/-245.033 χ^2/NDF : 103.5/118

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1435.658 $\pm$ 0.255 χ^2 /NDF: 5947663.5/33

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1452.441 $\pm$ 0.256 χ^2 /NDF: 5865792.1/36

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

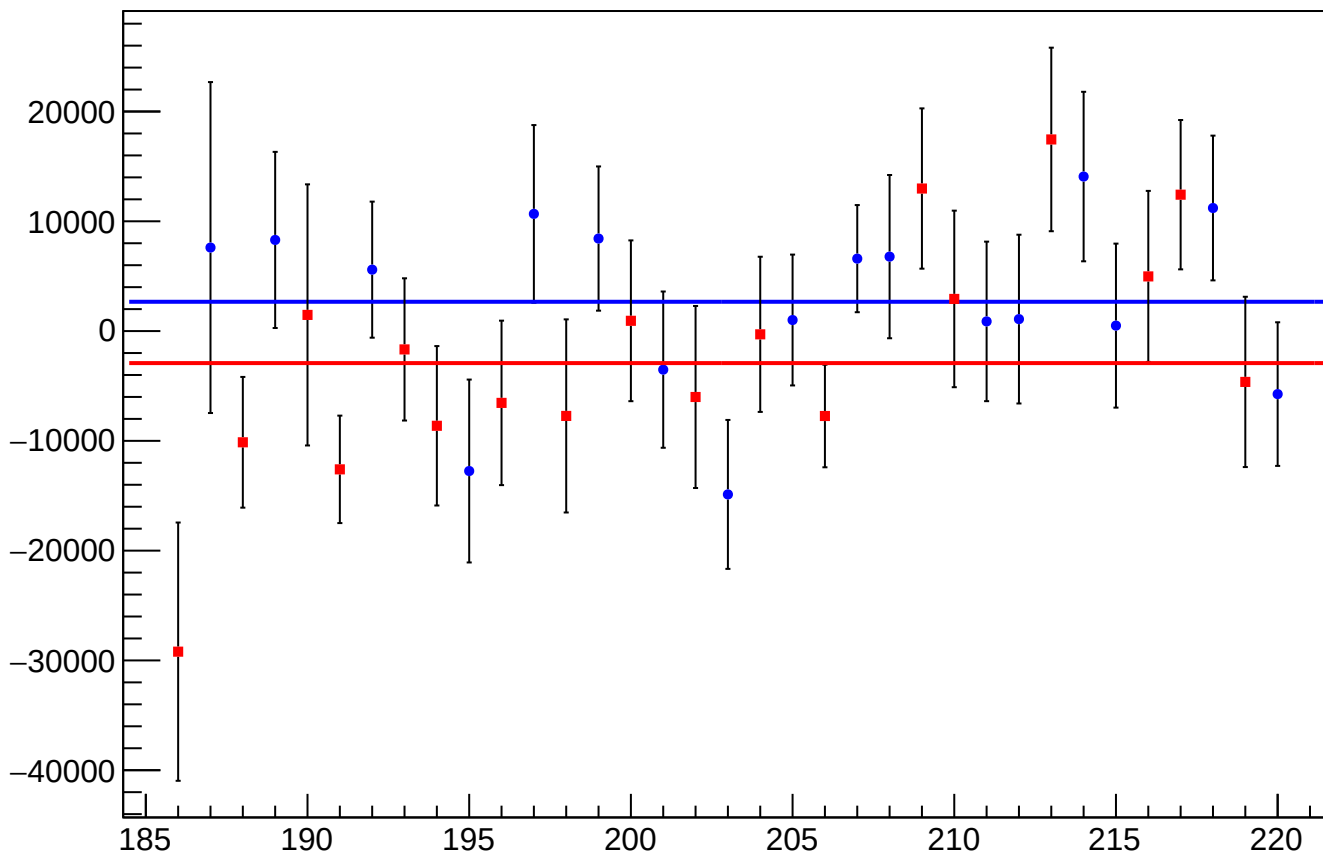
Right: 1444.019 $\pm$ 0.180 χ^2 /NDF: 11815618.5/70

In: 1716.992 $\pm$ 0.245 χ^2 /NDF:23384717.5/56

Out: 1749.340 $\pm$ 0.245 χ^2 /NDF:23668884.6/61

All: 1733.178 $\pm$ 0.173 χ^2 /NDF: 47062321.4/113

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2669.096 $\pm$ 1701.292 χ^2 /NDF: 20.2/16

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: -2916.661 $\pm$ 1666.491 χ^2 /NDF: 30.7/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

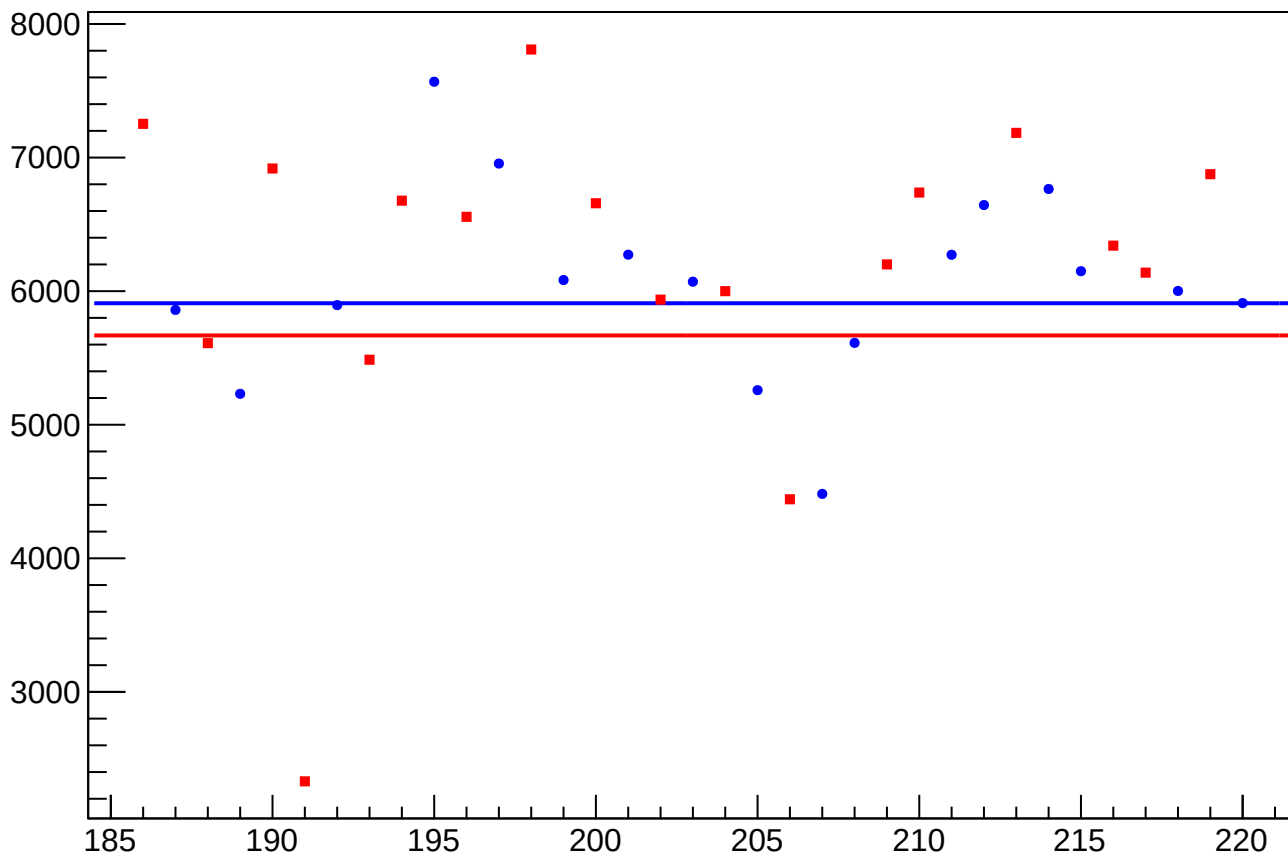
Right: -181.497 $\pm$ 1190.500 χ^2 /NDF: 56.4/34

In: 2669.096 $\pm$ 1701.292 χ^2 /NDF:20.2/16

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: -181.497 $\pm$ 1190.500 χ^2 /NDF: 56.4/34

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5909.477+/-1.203 χ^2/NDF : 383079.9/16

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5668.303+/-1.178 χ^2/NDF : 1541309.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

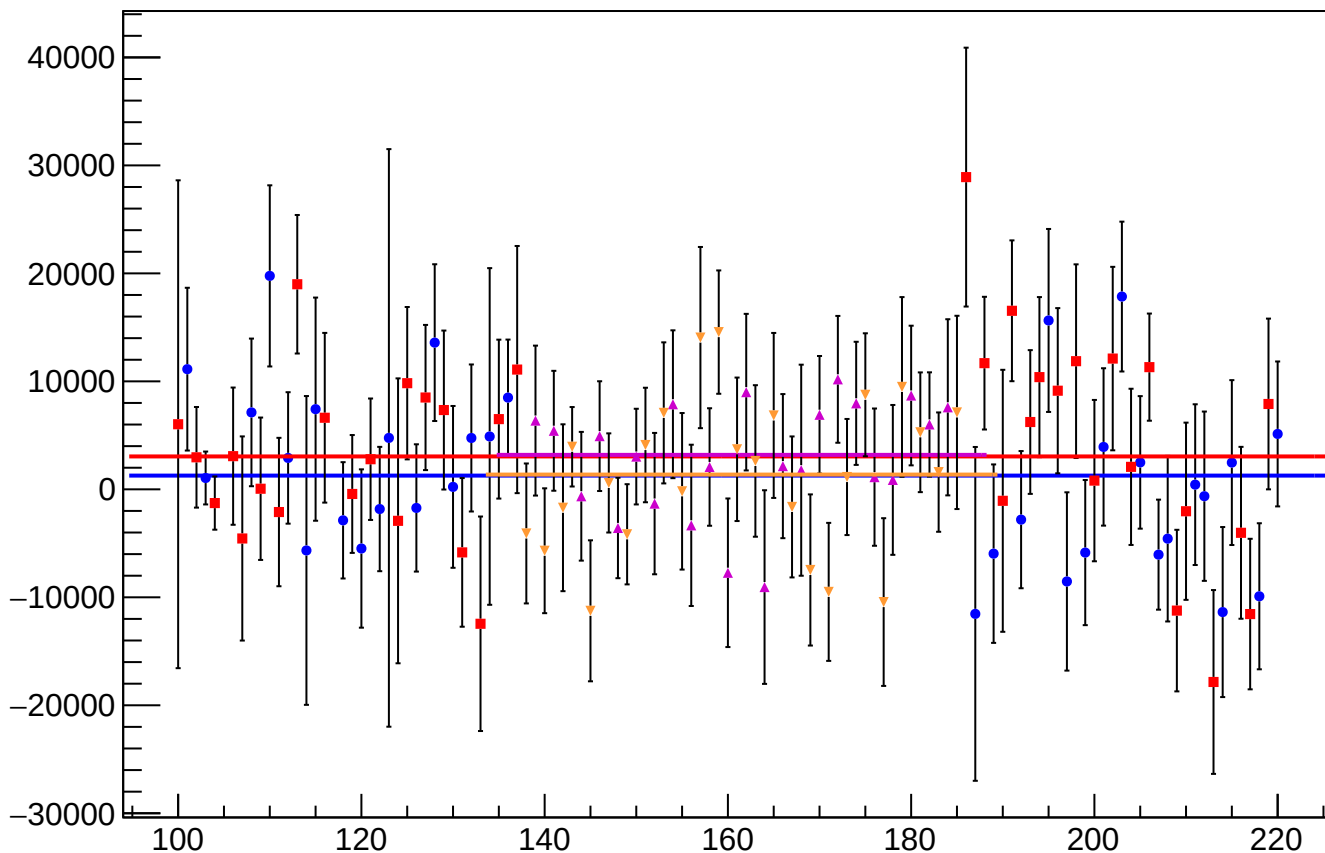
Right: 5786.398+/-0.842 χ^2/NDF : 1944900.5/34

In: 5909.477+/-1.203 χ^2/NDF : 383079.9/16

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5786.398+/-0.842 χ^2/NDF : 1944900.5/34

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1271.395+/-1118.421 χ^2/NDF : 36.5/33

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3046.477+/-1086.859 χ^2/NDF : 51.7/36

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

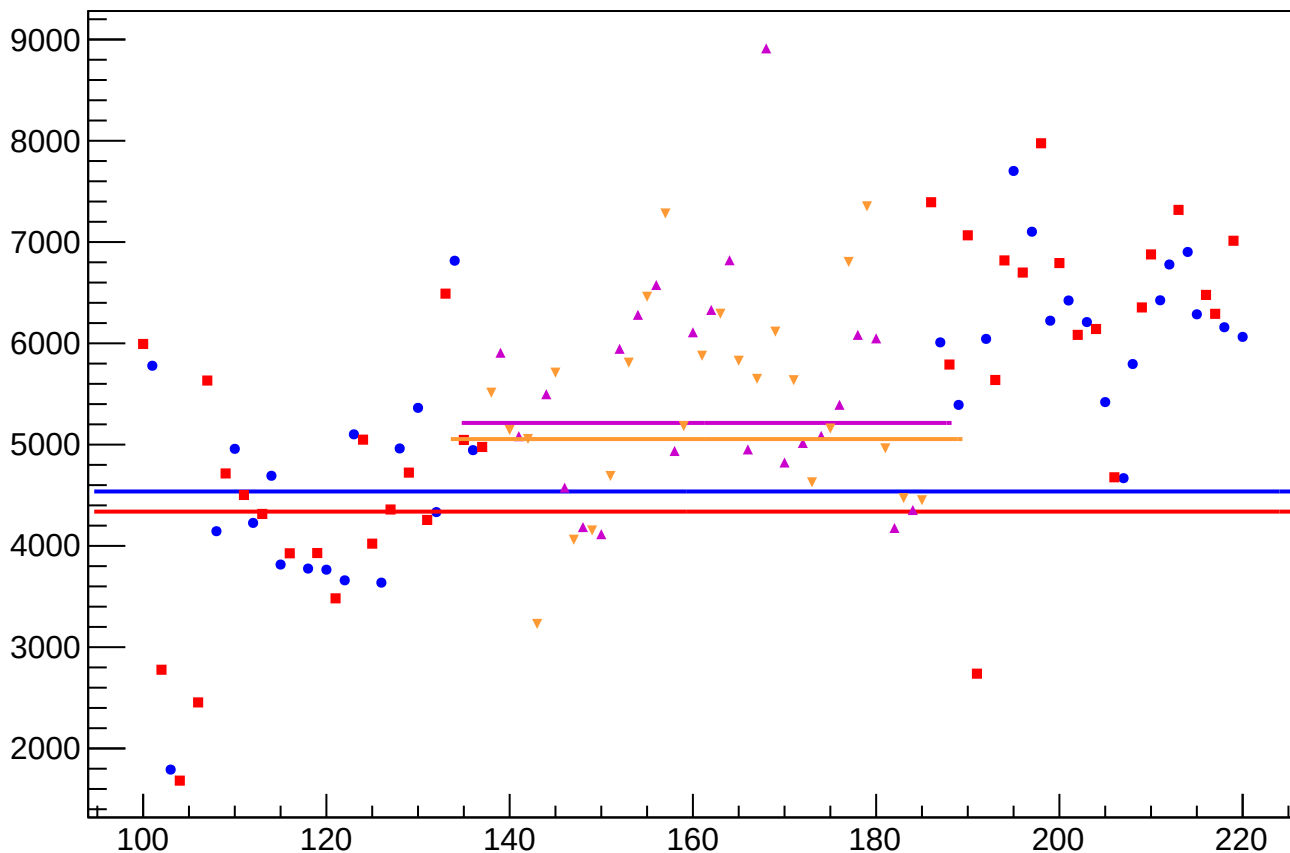
Right: 2184.336+/-779.445 χ^2/NDF : 89.5/70

In: 2109.914+/-839.351 χ^2/NDF : 51.8/56

Out: 2293.097+/-807.450 χ^2/NDF : 80.7/61

All: 2205.053+/-581.904 χ^2/NDF : 132.6/118

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4537.342+/-0.791 χ^2/NDF : 4732034.5/33

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4338.425+/-0.764 χ^2/NDF : 5872153.3/36

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

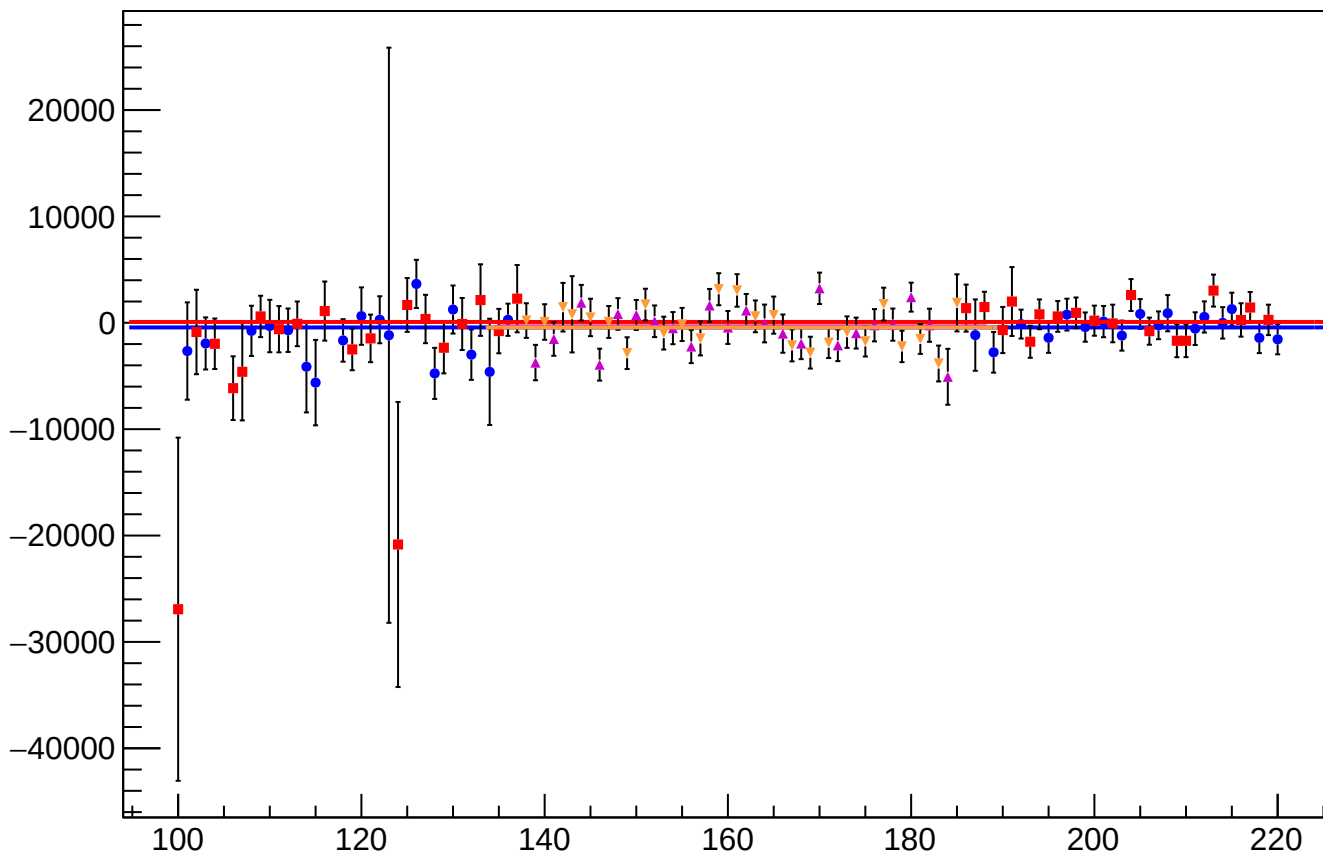
Right: 4434.470+/-0.550 χ^2/NDF : 10636906.8/70

In: 4832.942+/-0.594 χ^2/NDF : 6104412.4/56

Out: 4657.346+/-0.569 χ^2/NDF : 7700596.6/61

All: 4741.467+/-0.411 χ^2/NDF : 13850609.0/1

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -436.024+/-312.078 χ^2/NDF : 20.3/33

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 77.915+/-312.531 χ^2/NDF : 31.1/36

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

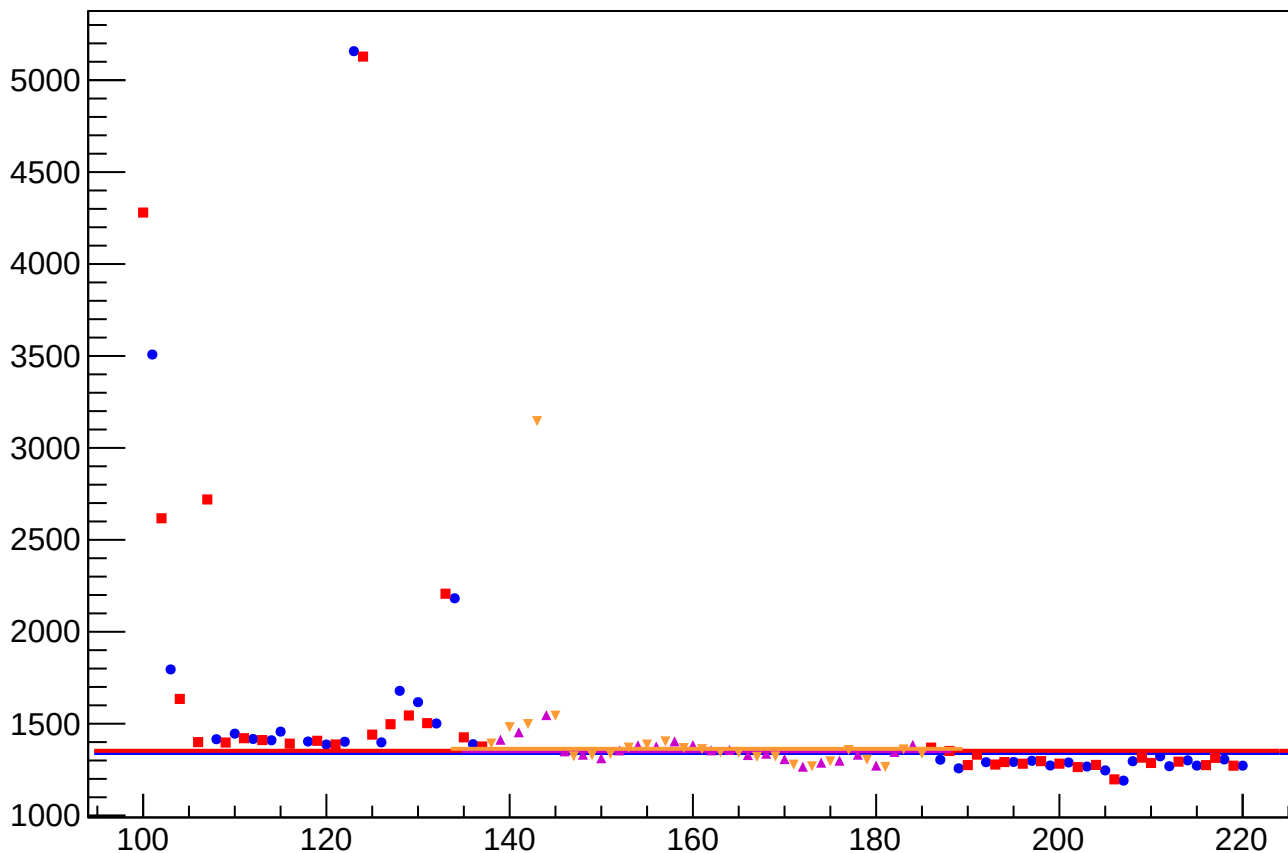
Right: -179.428+/-220.832 χ^2/NDF : 52.8/70

In: -391.662+/-224.892 χ^2/NDF :54.2/56

Out: -170.454+/-223.771 χ^2/NDF :65.5/61

All: -280.505+/-158.625 χ^2/NDF : 120.1/118

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1340.926+/-0.221 χ^2/NDF : 788243.5/33

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1352.862+/-0.221 χ^2/NDF : 889458.3/36

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

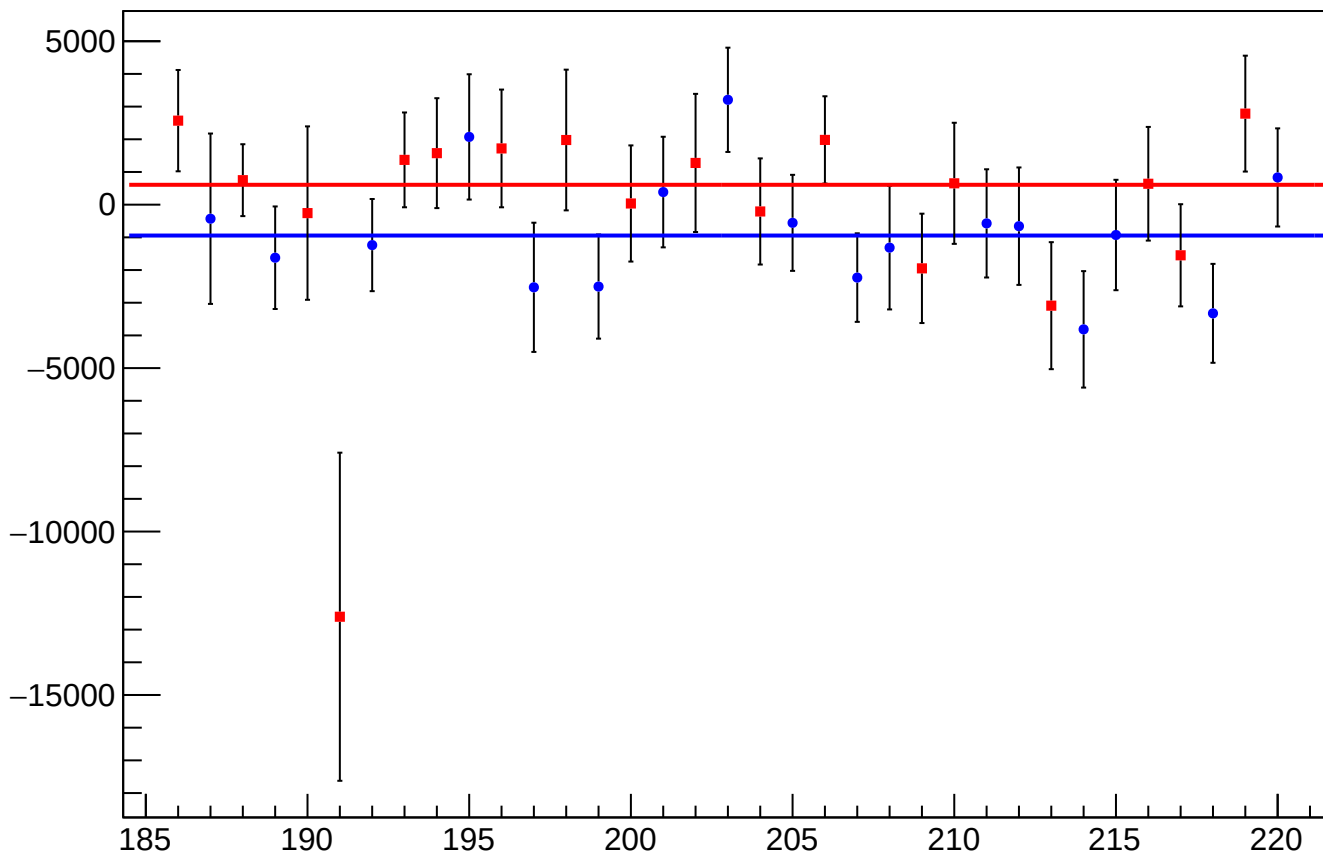
Right: 1346.885+/-0.156 χ^2/NDF : 1679162.5/70

In: 1345.725+/-0.159 χ^2/NDF : 856371.8/56

Out: 1358.076+/-0.158 χ^2/NDF : 1465827.3/61

All: 1351.931+/-0.112 χ^2/NDF : 2325230.6/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -944.545+/-400.608 χ^2 /NDF: 19.3/16

Left Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Right Out: 607.770+/-400.571 χ^2 /NDF: 20.9/17

Left In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0

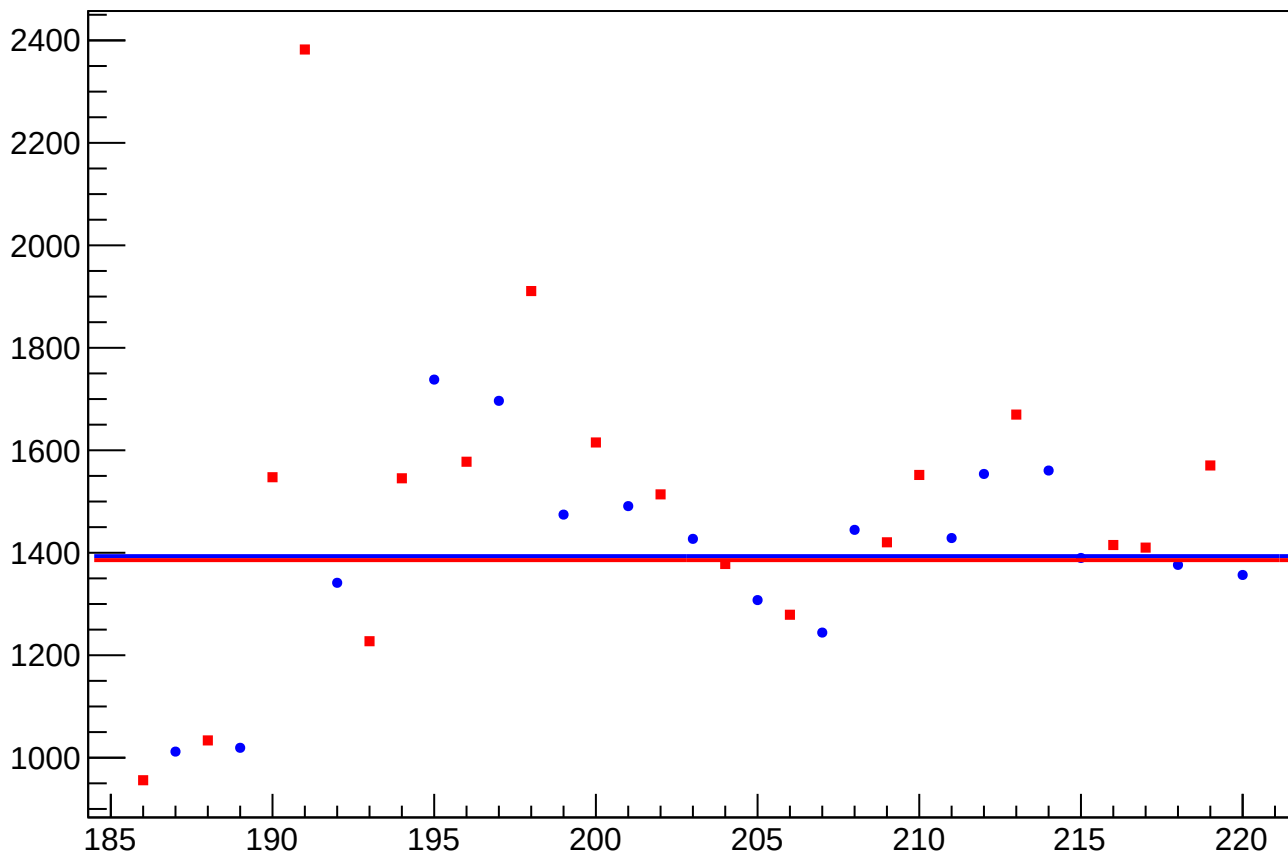
Right: -168.317+/-283.259 χ^2 /NDF: 47.7/34

In: -944.545+/-400.608 χ^2 /NDF: 19.3/16

Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

All: -168.317+/-283.259 χ^2 /NDF: 47.7/34

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1393.403+/-0.283 χ^2/NDF : 352208.8/16

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1385.636+/-0.283 χ^2/NDF : 764515.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

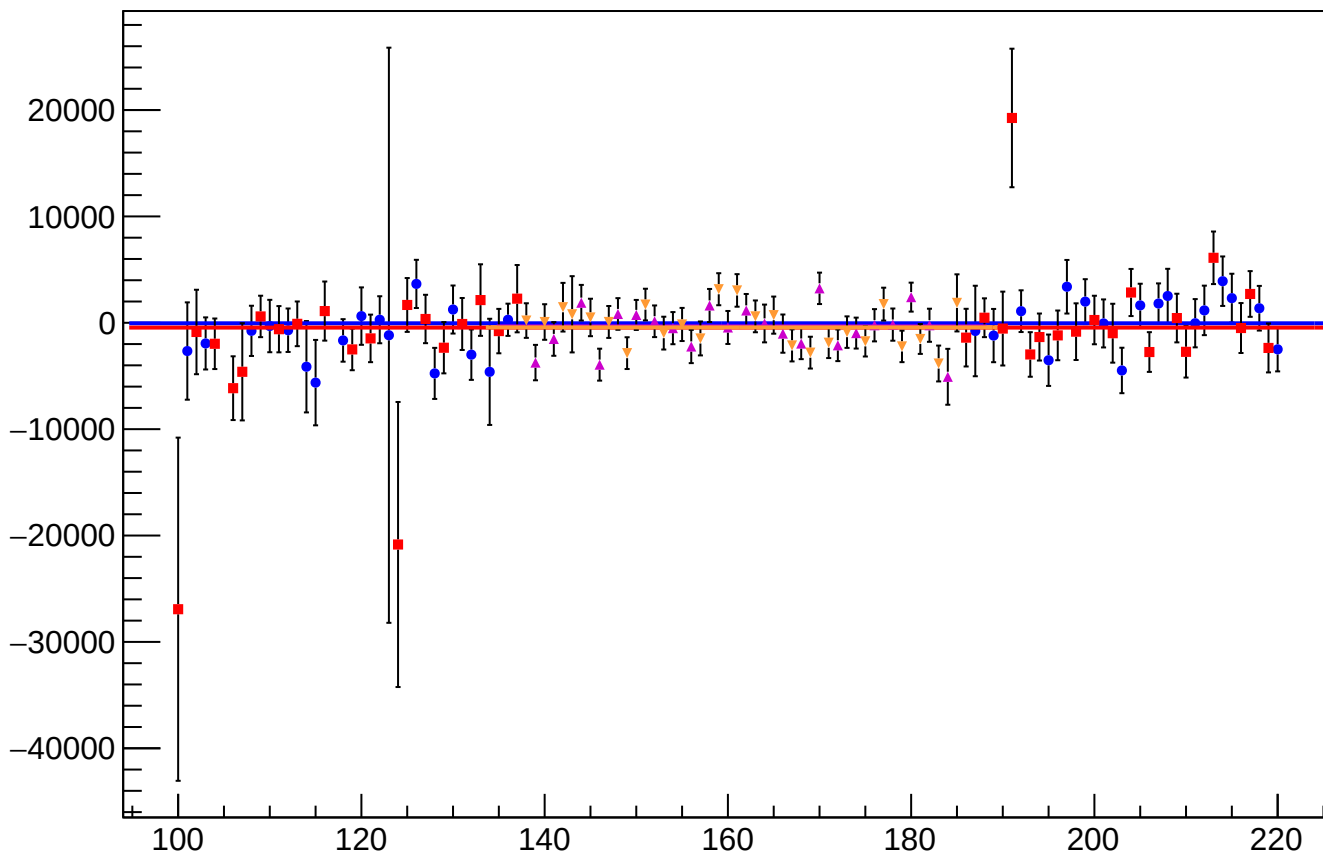
Right: 1389.519+/-0.200 χ^2/NDF : 1117100.1/34

In: 1393.403+/-0.283 χ^2/NDF : 352208.8/16

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1389.519+/-0.200 χ^2/NDF : 1117100.1/34

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -48.028+/-406.278 χ^2/NDF : 32.5/33

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -451.069+/-407.051 χ^2/NDF : 40.7/36

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

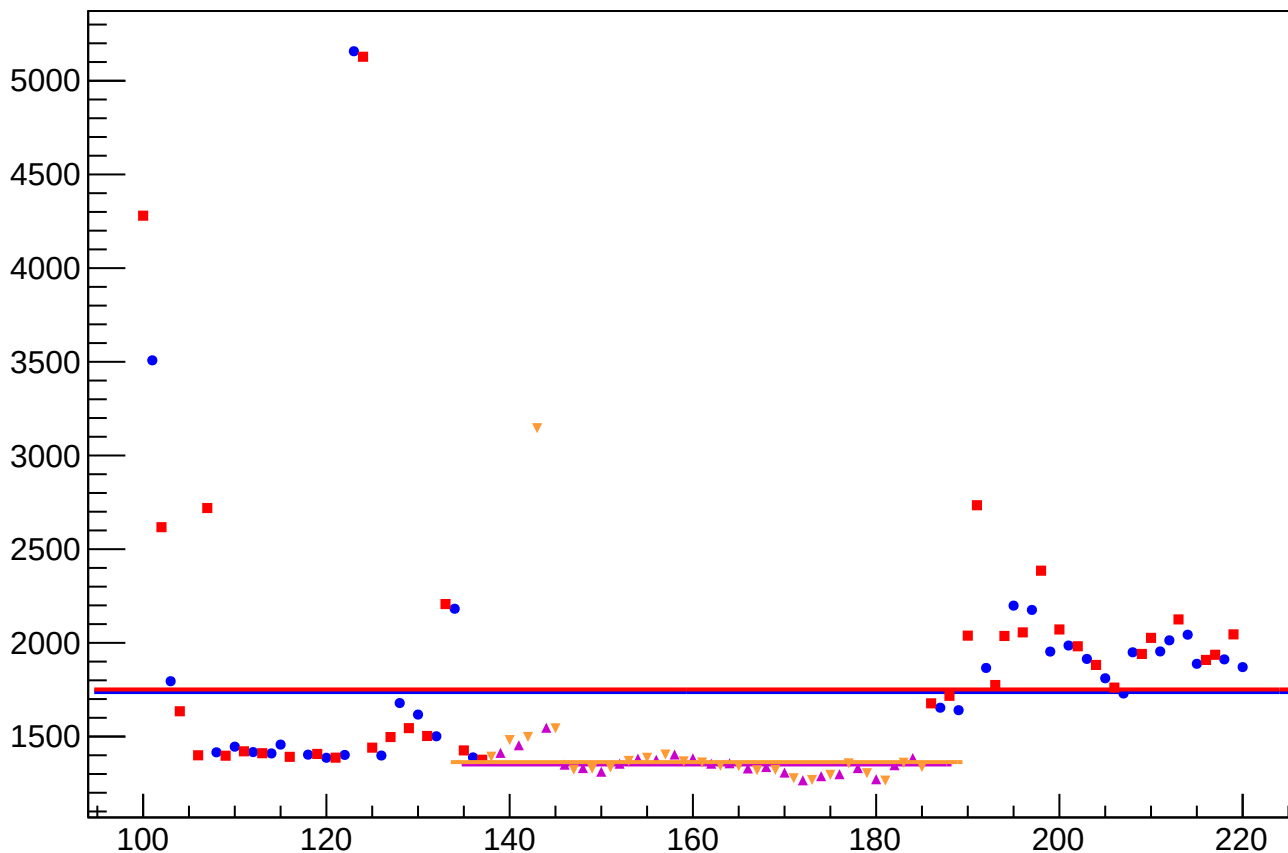
Right: -249.165+/-287.555 χ^2/NDF : 73.7/70

In: -228.621+/-253.488 χ^2/NDF : 66.6/56

Out: -439.123+/-251.832 χ^2/NDF : 73.8/61

All: -334.562+/-178.655 χ^2/NDF : 140.7/118

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1737.372+/-0.287 χ^2/NDF : 1130487.0/33

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1751.263+/-0.288 χ^2/NDF : 1354887.0/36

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

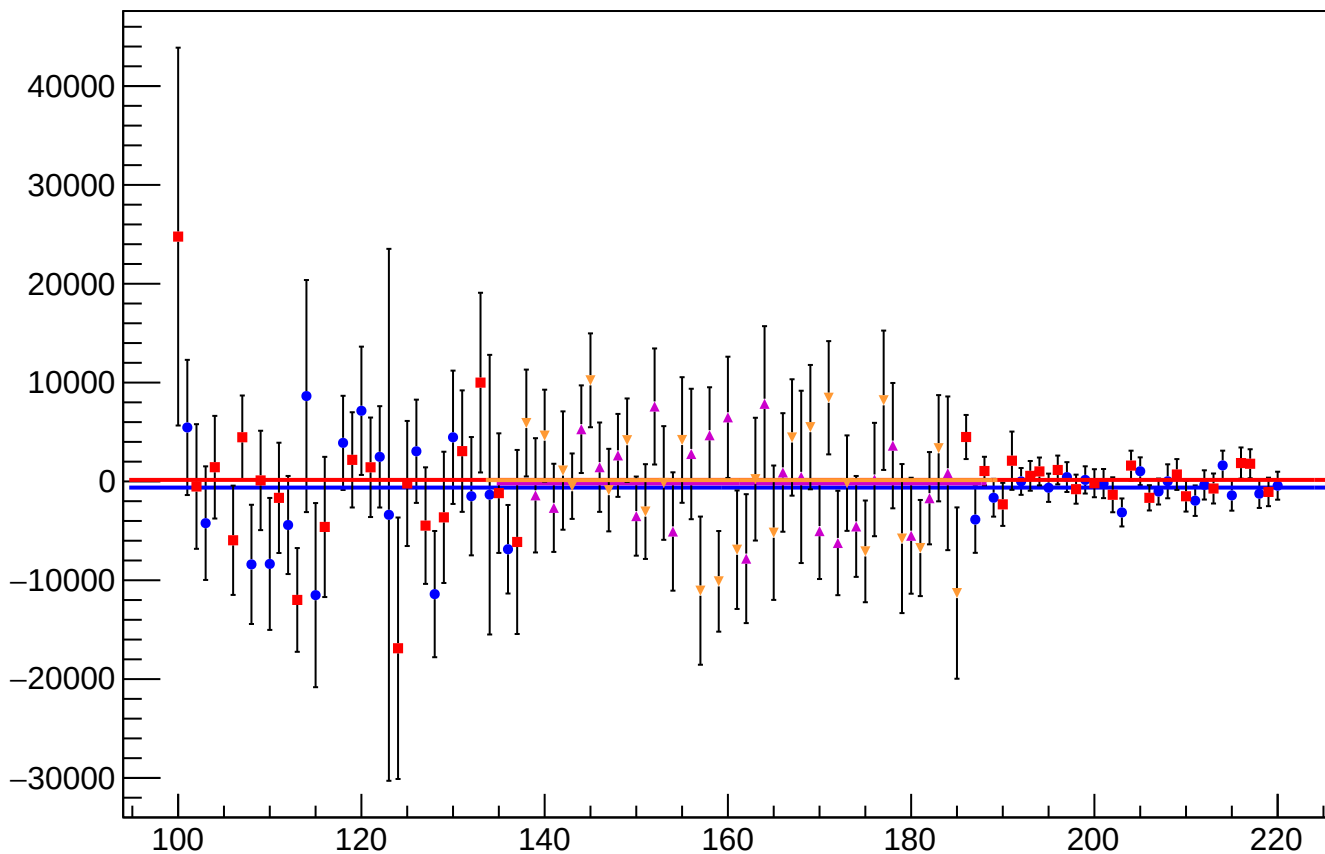
Right: 1744.304+/-0.203 χ^2/NDF : 2486540.9/70

In: 1501.354+/-0.179 χ^2/NDF : 2302826.0/56

Out: 1511.958+/-0.178 χ^2/NDF : 3050035.7/61

All: 1506.691+/-0.126 χ^2/NDF : 5354623.0/11

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -622.880 ± 355.753 χ^2/NDF : 25.9/33

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 154.313 ± 355.975 χ^2/NDF : 30.3/36

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

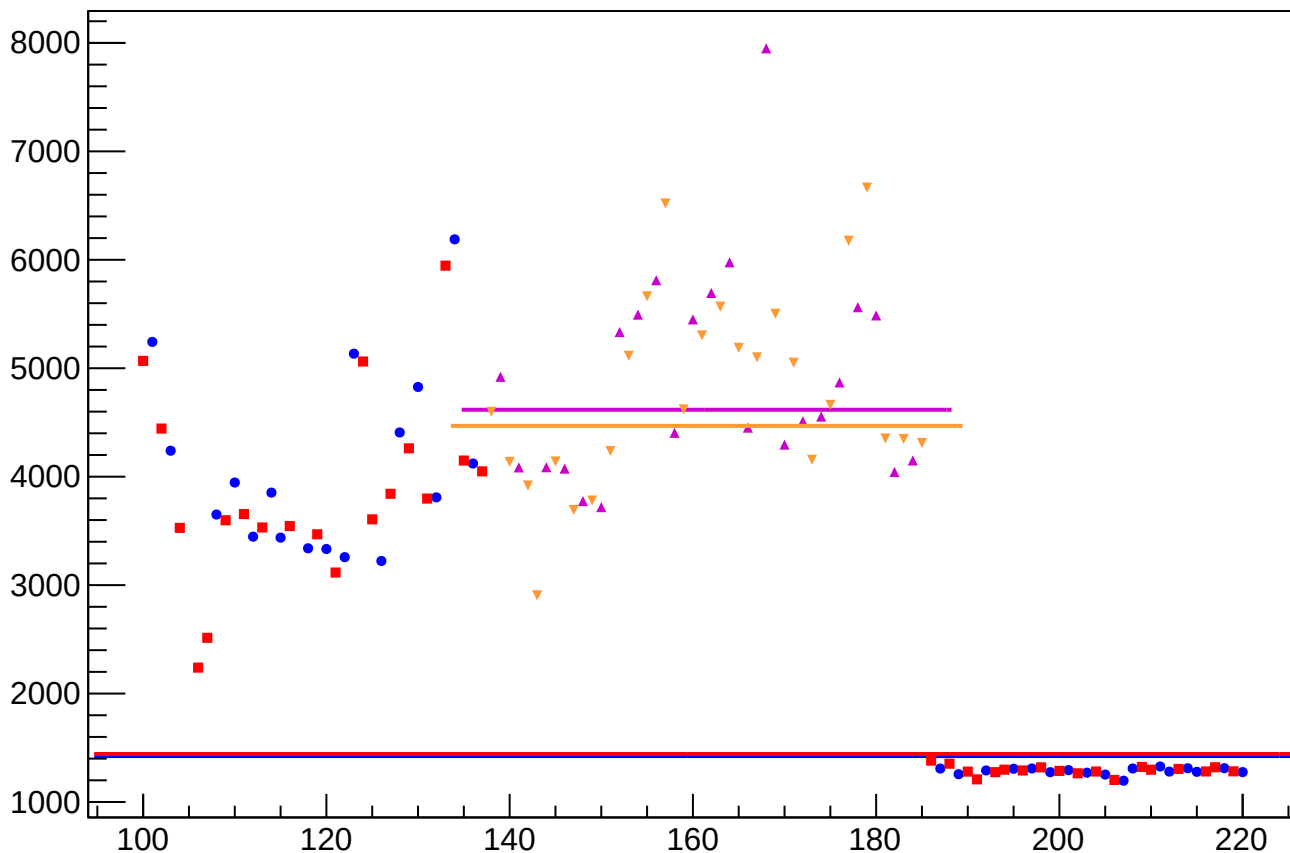
Right: -234.526 ± 251.634 χ^2/NDF : 58.6/70

In: -584.360 ± 339.157 χ^2/NDF : 40.8/56

Out: 152.087 ± 337.632 χ^2/NDF : 58.4/61

All: -214.478 ± 239.279 χ^2/NDF : 101.6/118

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1423.569+/-0.252 χ^2/NDF : 5730575.1/33

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 1442.718+/-0.252 χ^2/NDF : 5553591.2/36

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

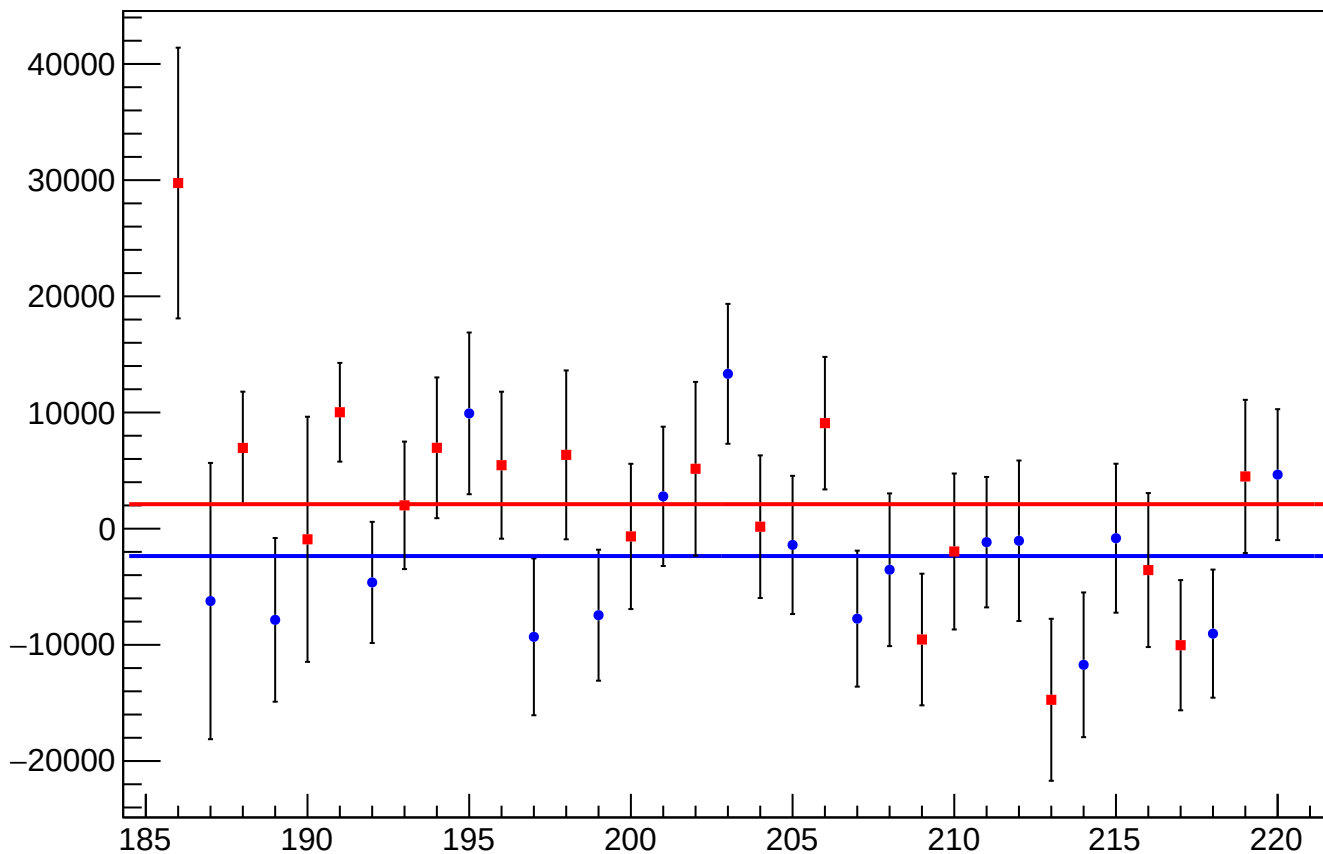
Right: 1433.143+/-0.178 χ^2/NDF : 11287063.4/70

In: 1714.608+/-0.240 χ^2/NDF : 21418813.5/56

Out: 1746.181+/-0.239 χ^2/NDF : 21444310.0/61

All: 1730.474+/-0.169 χ^2/NDF : 42871833.3/113

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2357.425+/-1505.472 χ^2/NDF : 19.7/16

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 2108.431+/-1457.121 χ^2/NDF : 29.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

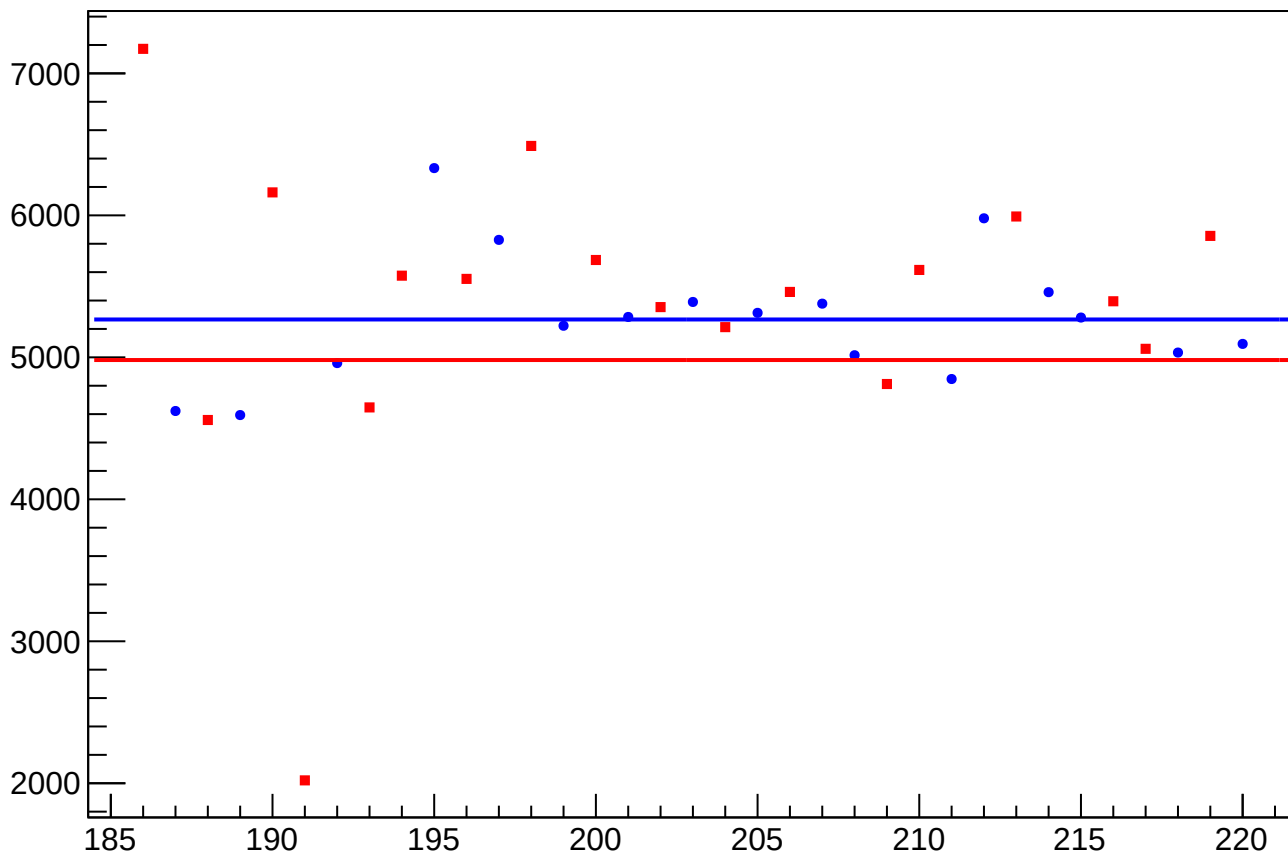
Right: -51.631+/-1047.016 χ^2/NDF : 53.7/34

In: -2357.425+/-1505.472 χ^2/NDF : 19.7/16

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -51.631+/-1047.016 χ^2/NDF : 53.7/34

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5266.643 $\pm$ 1.065 χ^2 /NDF: 136375.4/16

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 4980.991 $\pm$ 1.030 χ^2 /NDF: 1363189.8/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

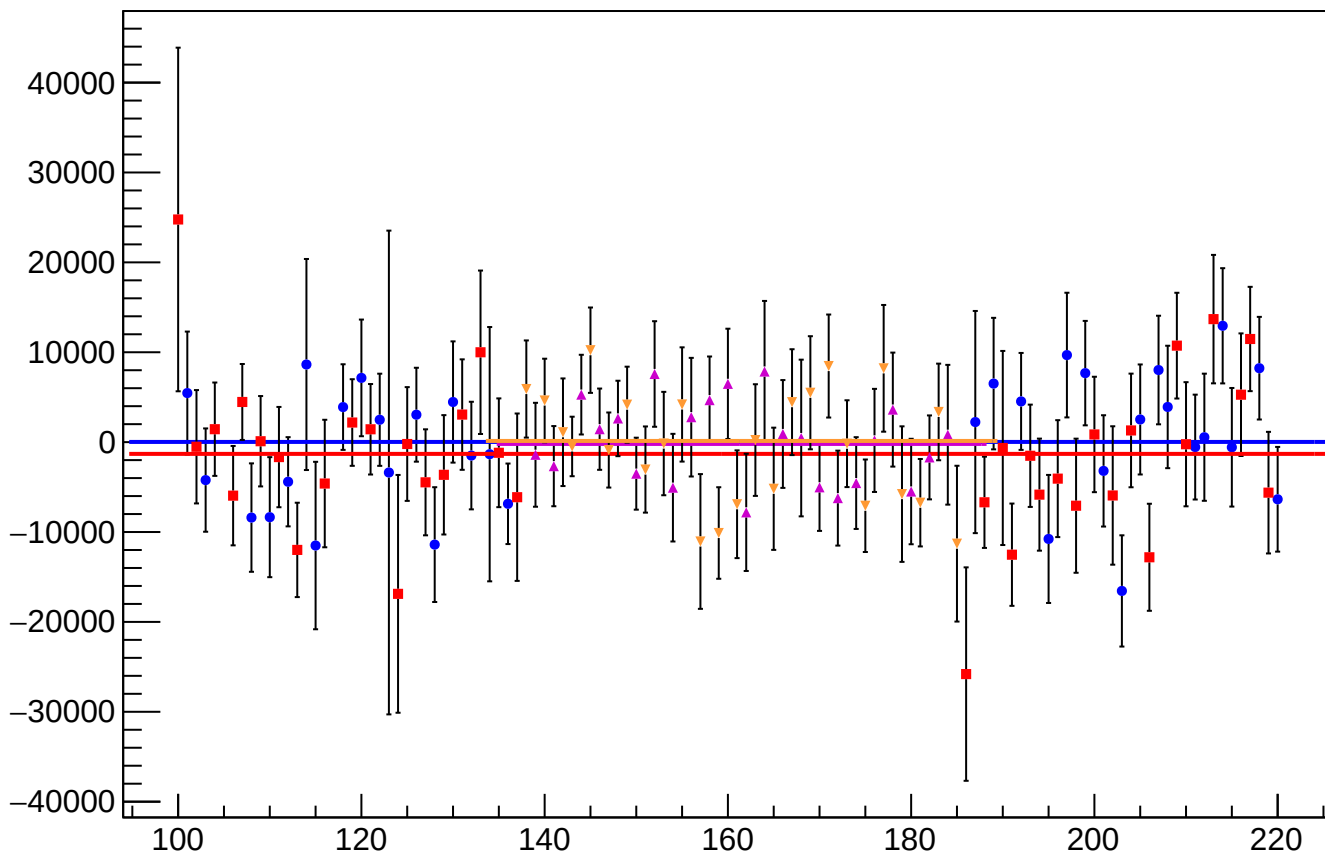
Right: 5119.156 $\pm$ 0.740 χ^2 /NDF: 1536742.0/34

In: 5266.643 $\pm$ 1.065 χ^2 /NDF:136375.4/16

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 5119.156 $\pm$ 0.740 χ^2 /NDF: 1536742.0/34

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 23.402 ± 1085.537 $\chi^2/\text{NDF}: 40.6/33$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1307.215 ± 1029.155 $\chi^2/\text{NDF}: 43.9/36$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

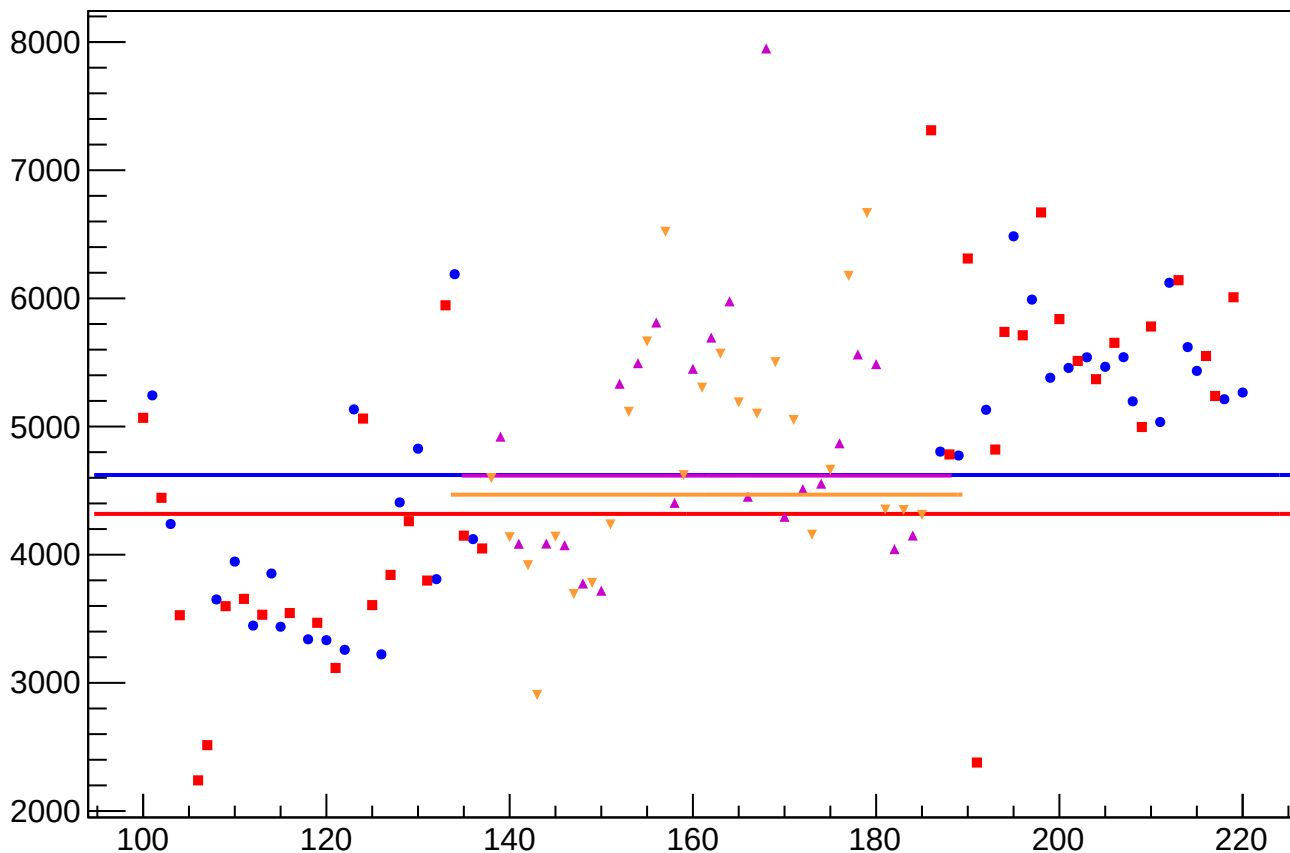
Right: -677.359 ± 746.860 $\chi^2/\text{NDF}: 85.3/70$

In: -84.549 ± 780.666 $\chi^2/\text{NDF}: 55.4/56$

Out: -612.533 ± 740.252 $\chi^2/\text{NDF}: 73.0/61$

All: -362.560 ± 537.157 $\chi^2/\text{NDF}: 128.6/118$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4621.961+/-0.768

χ^2/NDF : 1522423.9/33

Left Out: 4468.520+/-0.753

χ^2/NDF : 1380601.0/24

Right Out: 4318.301+/-0.724

χ^2/NDF : 2879902.2/36

Left In: 4617.293+/-0.794

χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

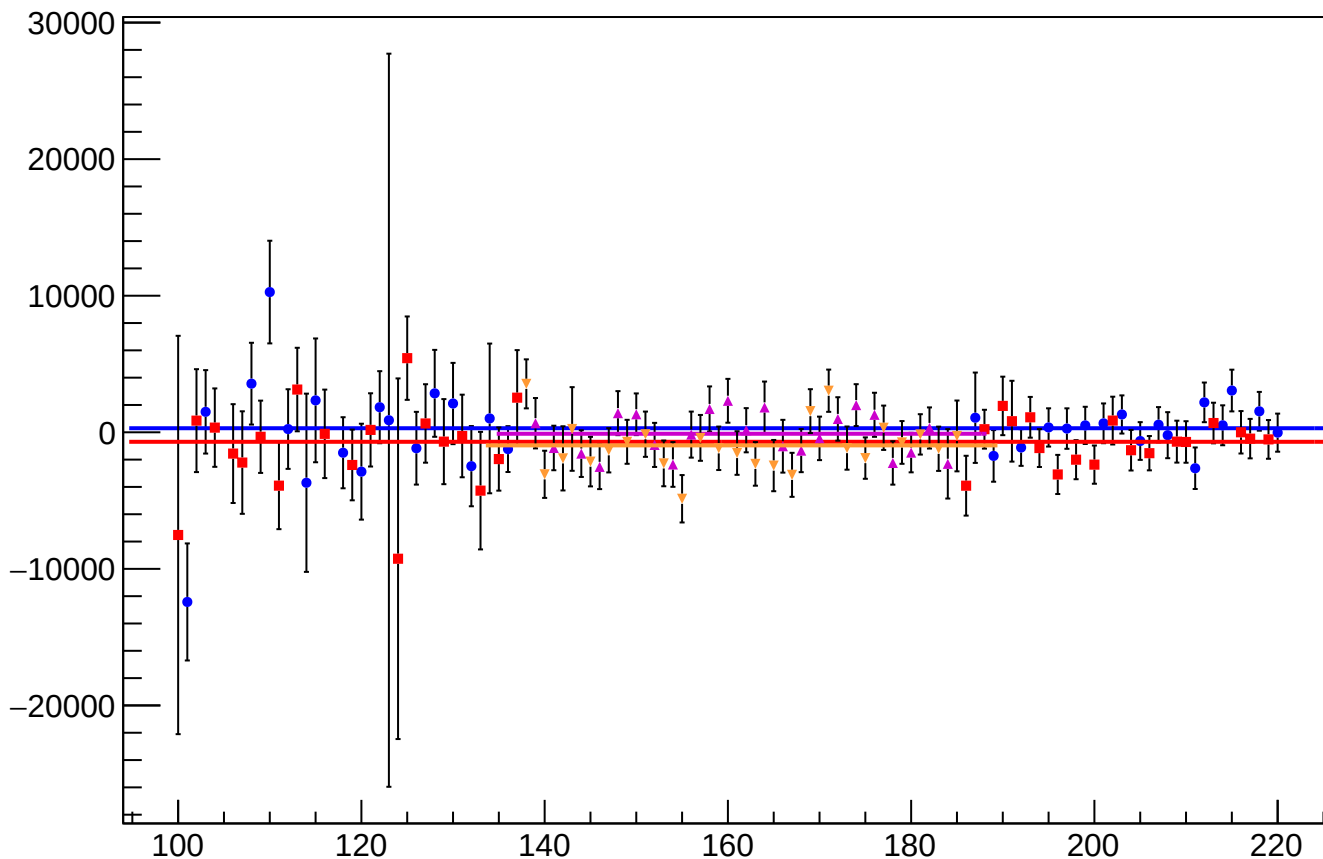
Right: 4461.268+/-0.527 χ^2/NDF : 4485146.7/70

In: 4619.707+/-0.552 χ^2/NDF : 2522041.6/56

Out: 4390.418+/-0.522 χ^2/NDF : 4281170.1/61

All: 4498.671+/-0.379 χ^2/NDF : 6894287.9/111

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 297.235+/-324.975 χ^2/NDF : 35.5/33

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -695.818+/-325.305 χ^2/NDF : 23.9/36

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

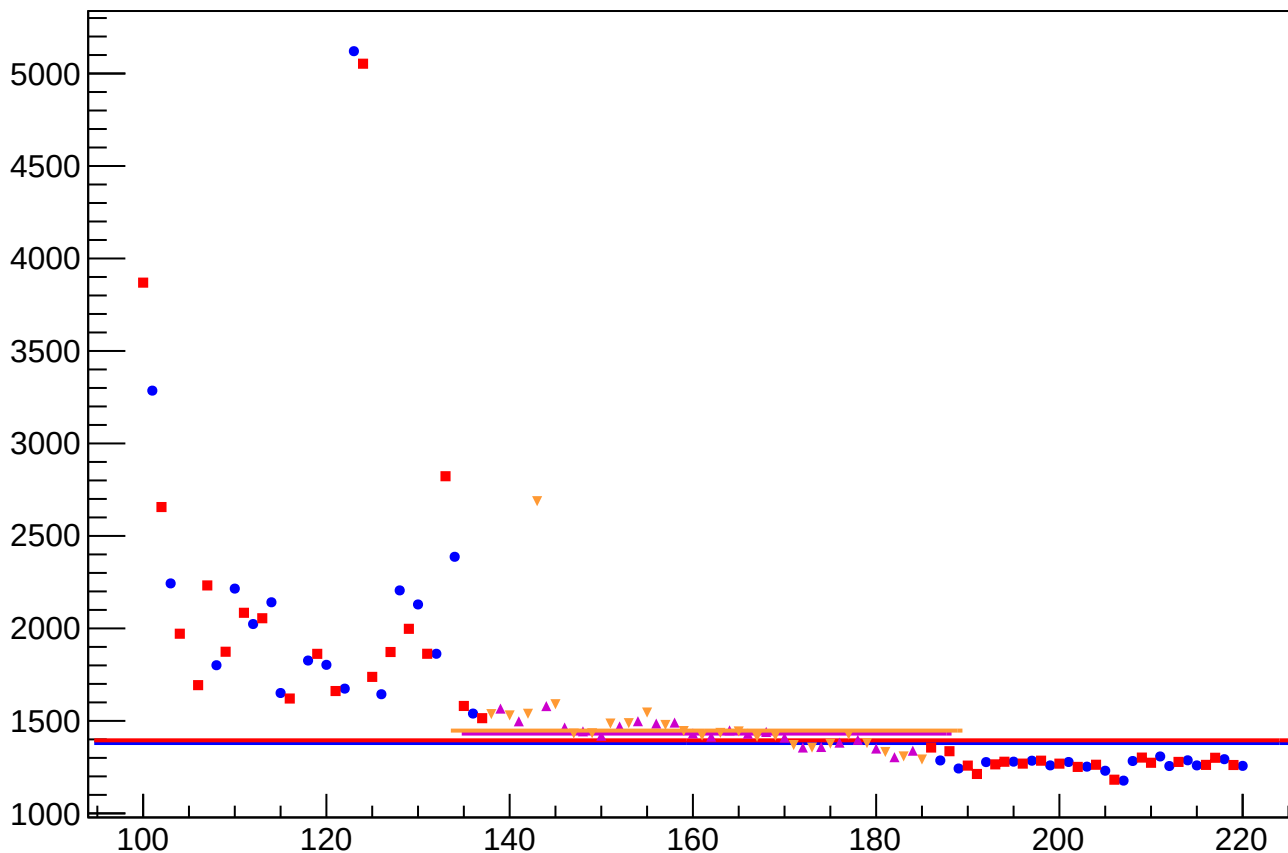
Right: -198.787+/-229.909 χ^2/NDF : 64.0/70

In: 106.165+/-236.122 χ^2/NDF : 55.7/56

Out: -821.511+/-234.882 χ^2/NDF : 52.7/61

All: -360.115+/-166.523 χ^2/NDF : 116.2/118

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1380.383 $\pm$ 0.230 χ^2 /NDF: 1624749.0/33

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1394.936 $\pm$ 0.230 χ^2 /NDF: 1667204.3/36

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

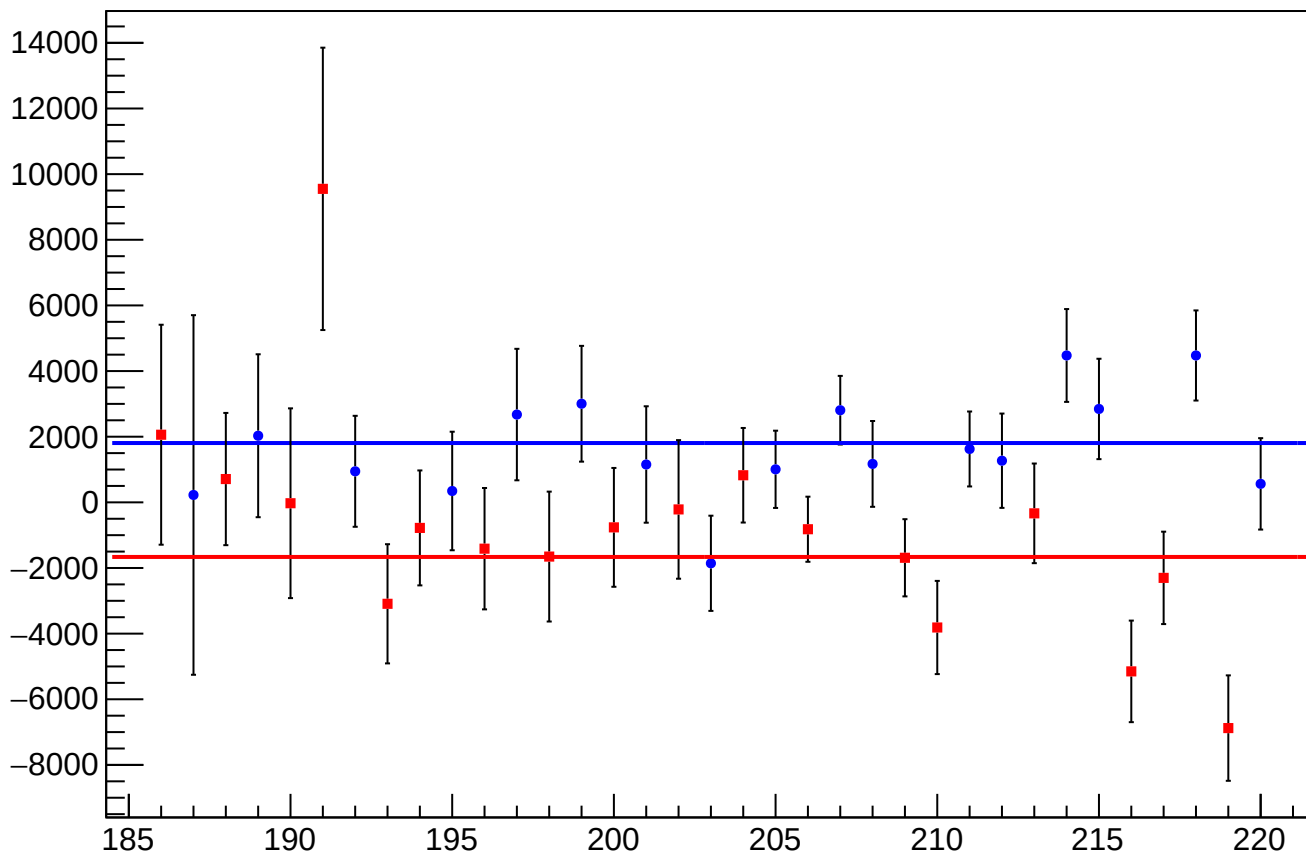
Right: 1387.652 $\pm$ 0.163 χ^2 /NDF: 3293956.4/70

In: 1404.493 $\pm$ 0.167 χ^2 /NDF: 1723198.3/56

Out: 1420.122 $\pm$ 0.166 χ^2 /NDF: 2111506.4/61

All: 1412.349 $\pm$ 0.118 χ^2 /NDF: 3839109.0/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1807.297+/-361.241 χ^2/NDF : 18.5/16

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1663.563+/-386.983 χ^2/NDF : 33.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

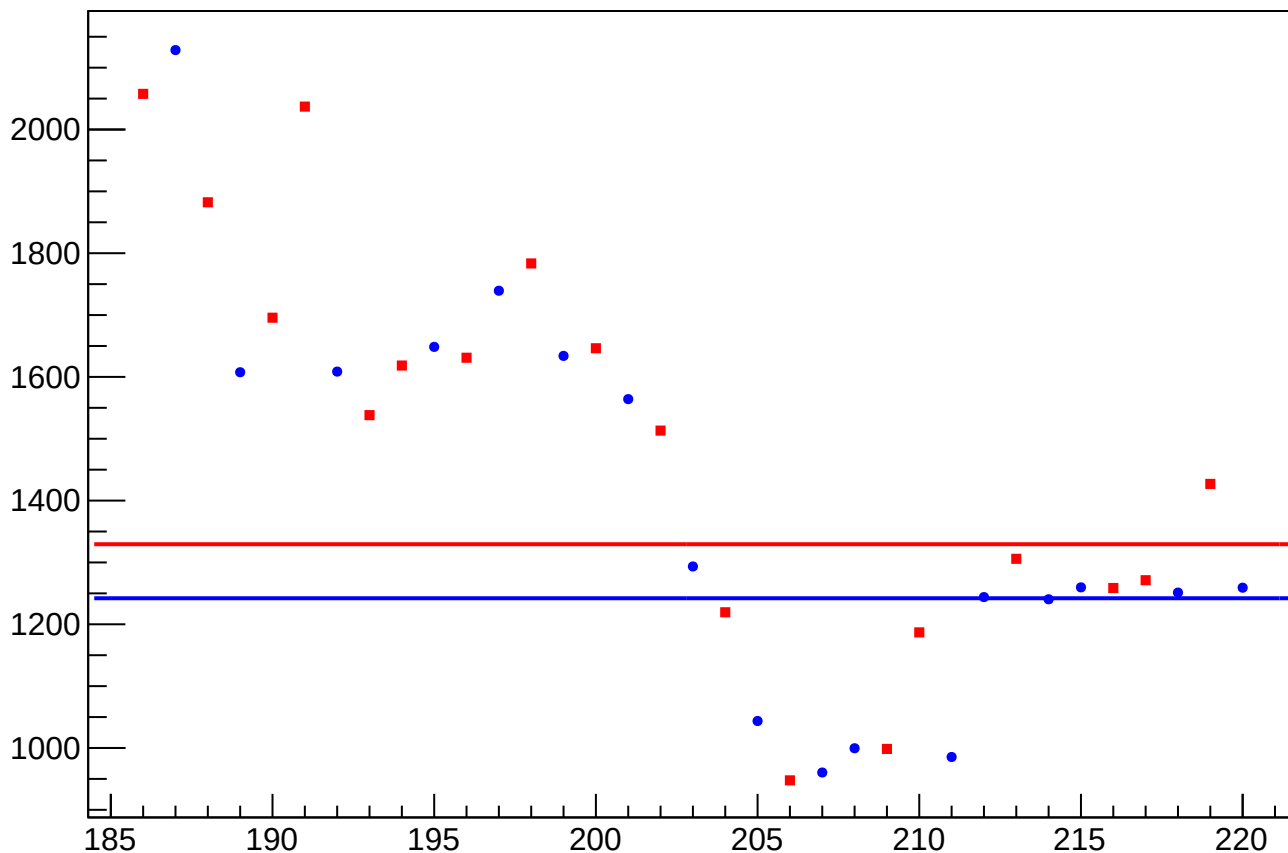
Right: 191.136+/-264.068 χ^2/NDF : 95.5/34

In: 1807.297+/-361.241 χ^2/NDF : 18.5/16

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 191.136+/-264.068 χ^2/NDF : 95.5/34

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1242.087+/-0.255 χ^2/NDF : 954069.2/16

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1329.469+/-0.274 χ^2/NDF : 1149213.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

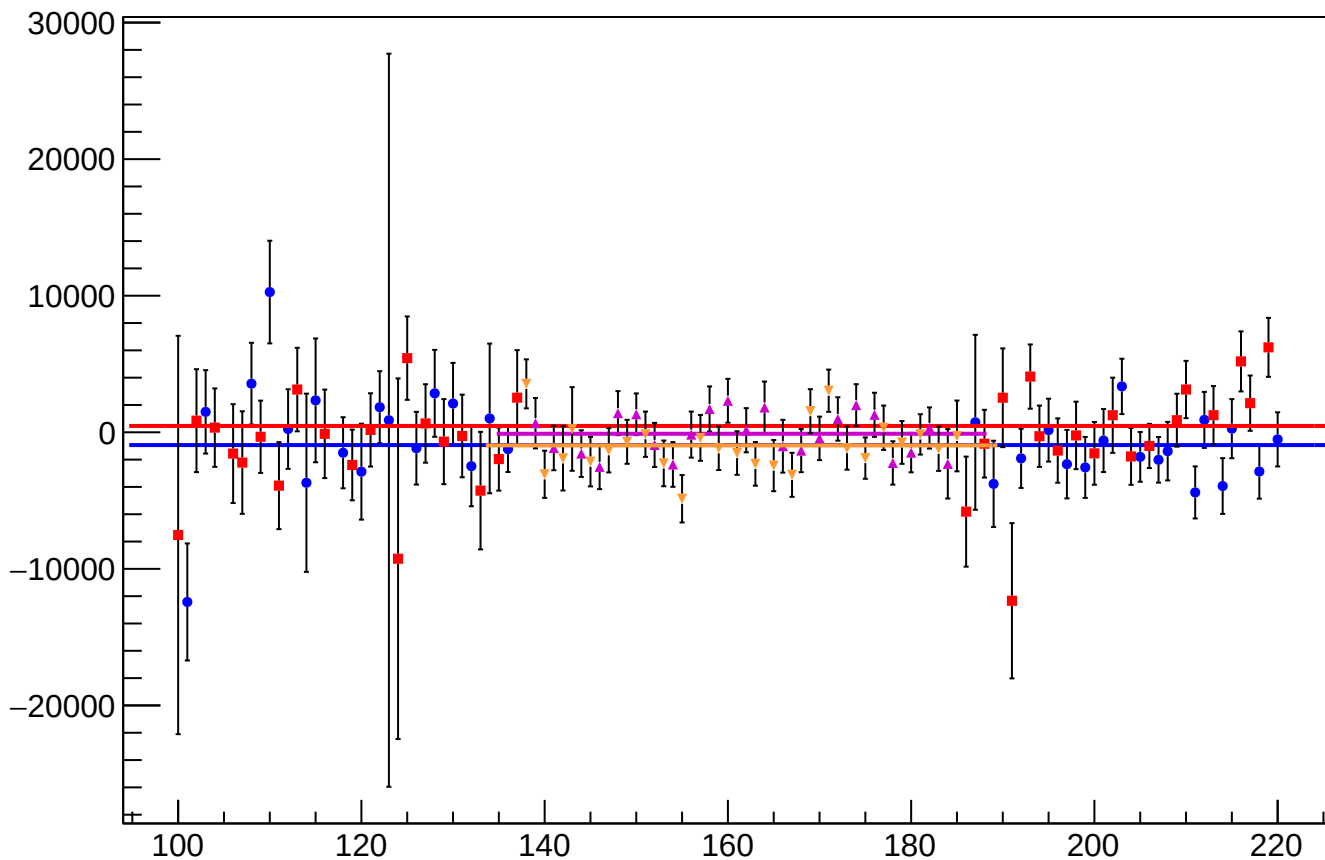
Right: 1282.775+/-0.187 χ^2/NDF : 2157773.7/34

In: 1242.087+/-0.255 χ^2/NDF : 954069.2/16

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1282.775+/-0.187 χ^2/NDF : 2157773.7/34

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -936.330 ± 429.027 χ^2/NDF : 39.1/33

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: 464.772 ± 437.931 χ^2/NDF : 39.4/36

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

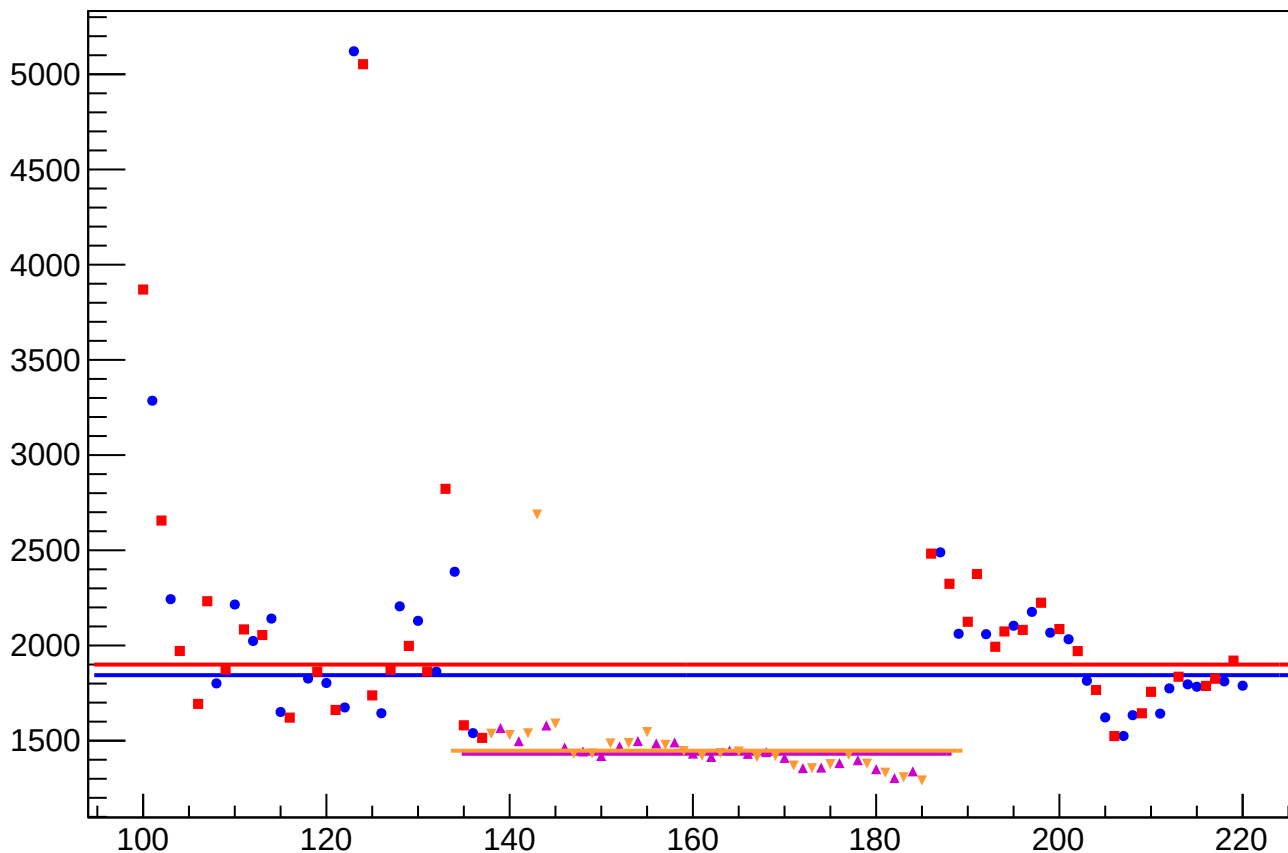
Right: -250.167 ± 306.467 χ^2/NDF : 83.8/70

In: -431.460 ± 268.221 χ^2/NDF : 60.8/56

Out: -424.173 ± 268.313 χ^2/NDF : 74.6/61

All: -427.818 ± 189.693 χ^2/NDF : 135.4/118

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1844.129+/-0.303 χ^2/NDF : 770490.8/33

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1899.760+/-0.310 χ^2/NDF : 828525.4/36

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

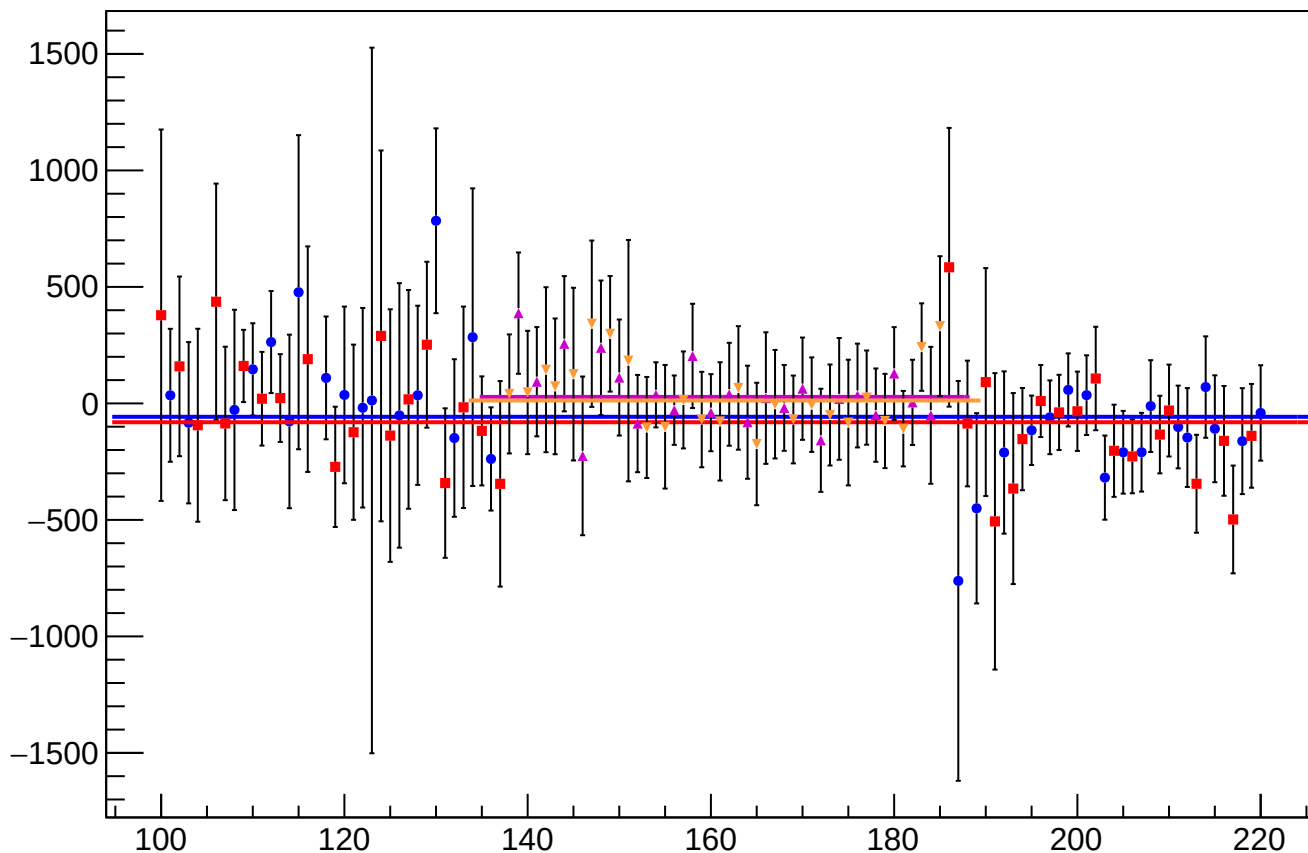
Right: 1871.374+/-0.217 χ^2/NDF : 1615484.9/70

In: 1592.752+/-0.190 χ^2/NDF : 1972807.1/56

Out: 1617.306+/-0.190 χ^2/NDF : 2579798.0/61

All: 1605.025+/-0.134 χ^2/NDF : 4560982.9/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.503 ± 41.078 $\chi^2/\text{NDF}: 17.3/33$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -80.794 ± 40.971 $\chi^2/\text{NDF}: 17.9/36$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

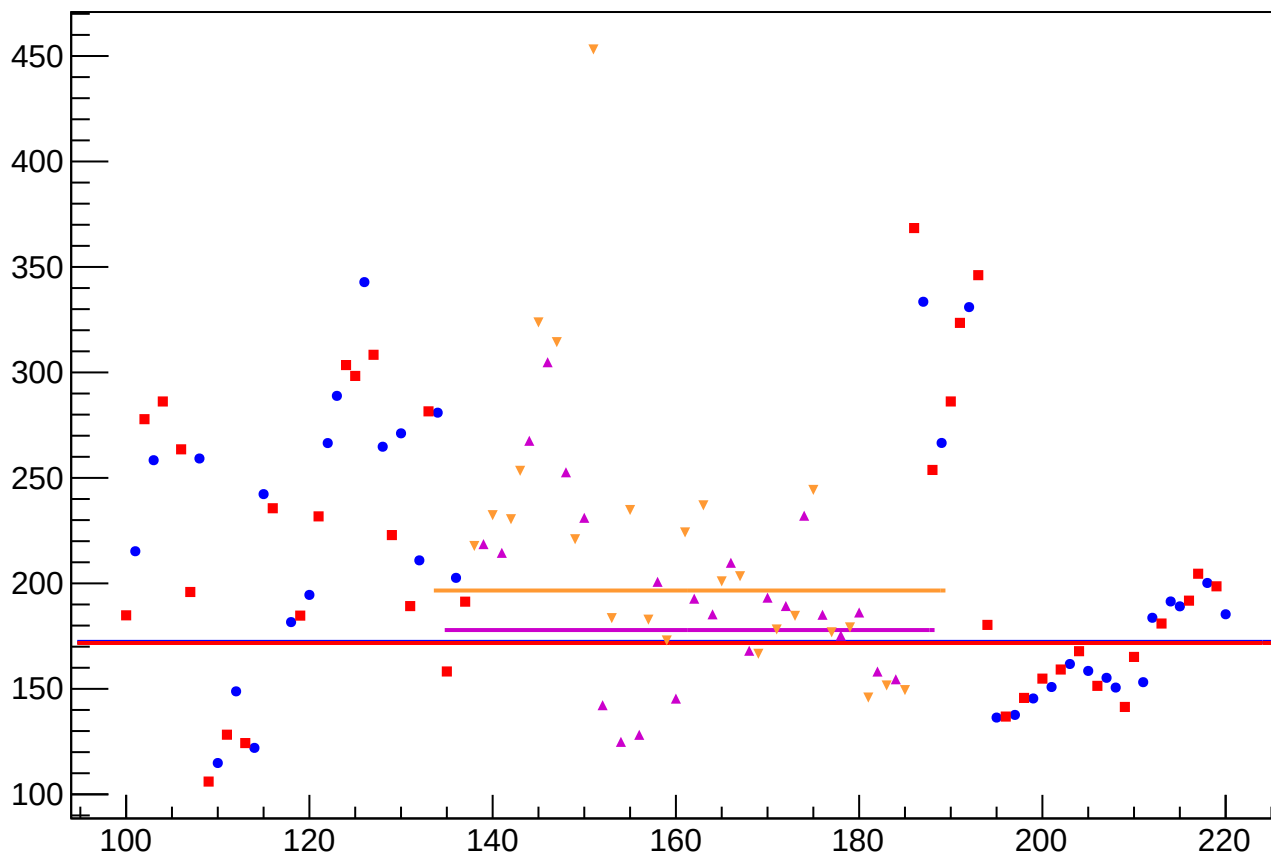
Right: -69.179 ± 29.009 $\chi^2/\text{NDF}: 35.4/70$

In: -18.224 ± 30.191 $\chi^2/\text{NDF}: 25.8/56$

Out: -40.931 ± 31.021 $\chi^2/\text{NDF}: 27.8/61$

All: -29.270 ± 21.636 $\chi^2/\text{NDF}: 53.9/118$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.273+/-0.029 χ^2/NDF : 2211280.5/33

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 171.751+/-0.029 χ^2/NDF : 2931118.7/36

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

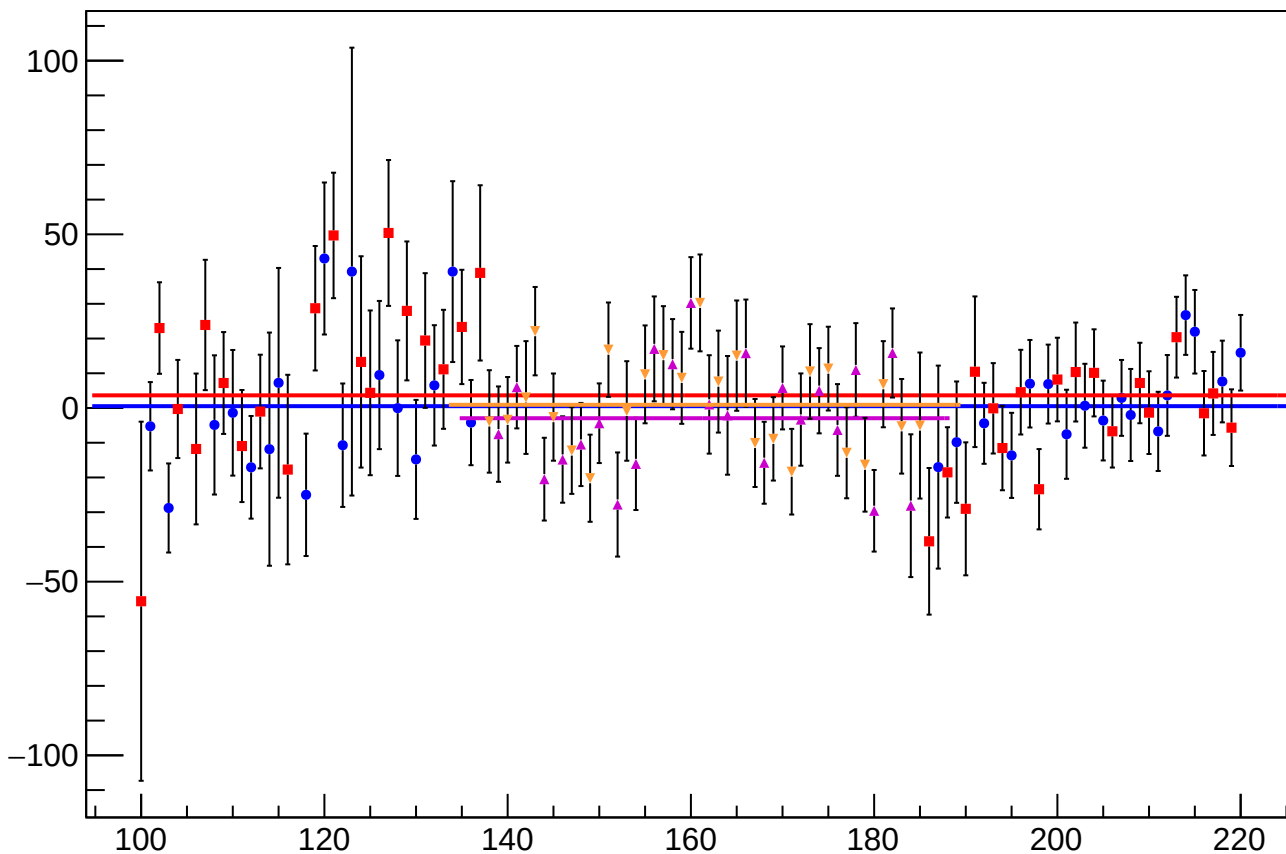
Right: 172.011+/-0.021 χ^2/NDF : 5142561.5/70

In: 174.850+/-0.021 χ^2/NDF :3872486.1/56

Out: 182.363+/-0.022 χ^2/NDF :5039086.1/61

All: 178.505+/-0.015 χ^2/NDF : 8971822.0/118

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.527 ± 2.462 $\chi^2/\text{NDF}: 31.9/33$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.643 ± 2.455 $\chi^2/\text{NDF}: 47.9/36$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

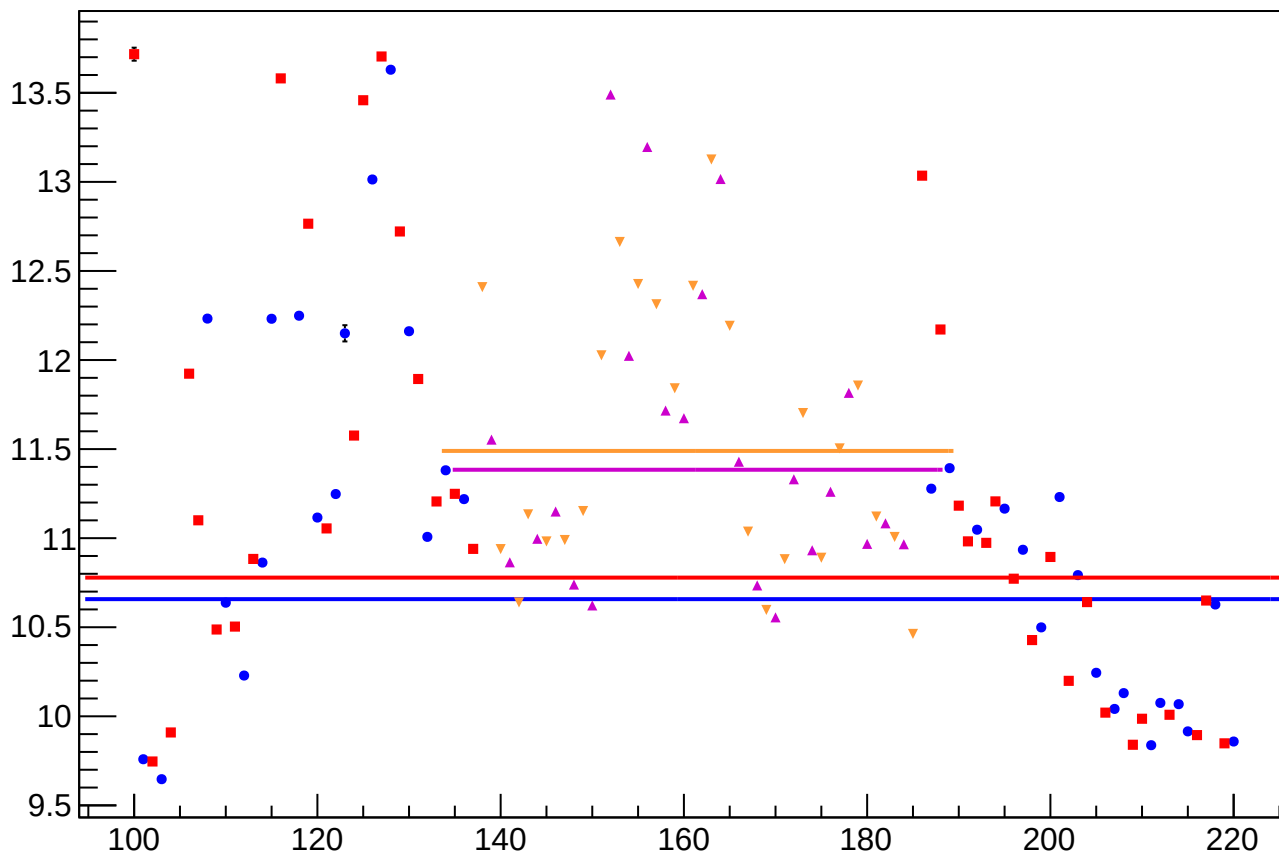
Right: 2.089 ± 1.738 $\chi^2/\text{NDF}: 80.5/70$

In: -1.019 ± 1.833 $\chi^2/\text{NDF}: 63.8/56$

Out: 2.409 ± 1.815 $\chi^2/\text{NDF}: 72.4/61$

All: 0.711 ± 1.290 $\chi^2/\text{NDF}: 138.0/118$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.658 $\pm$ 0.002 χ^2 /NDF: 221123.4/33

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.779 $\pm$ 0.002 χ^2 /NDF: 295894.3/36

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

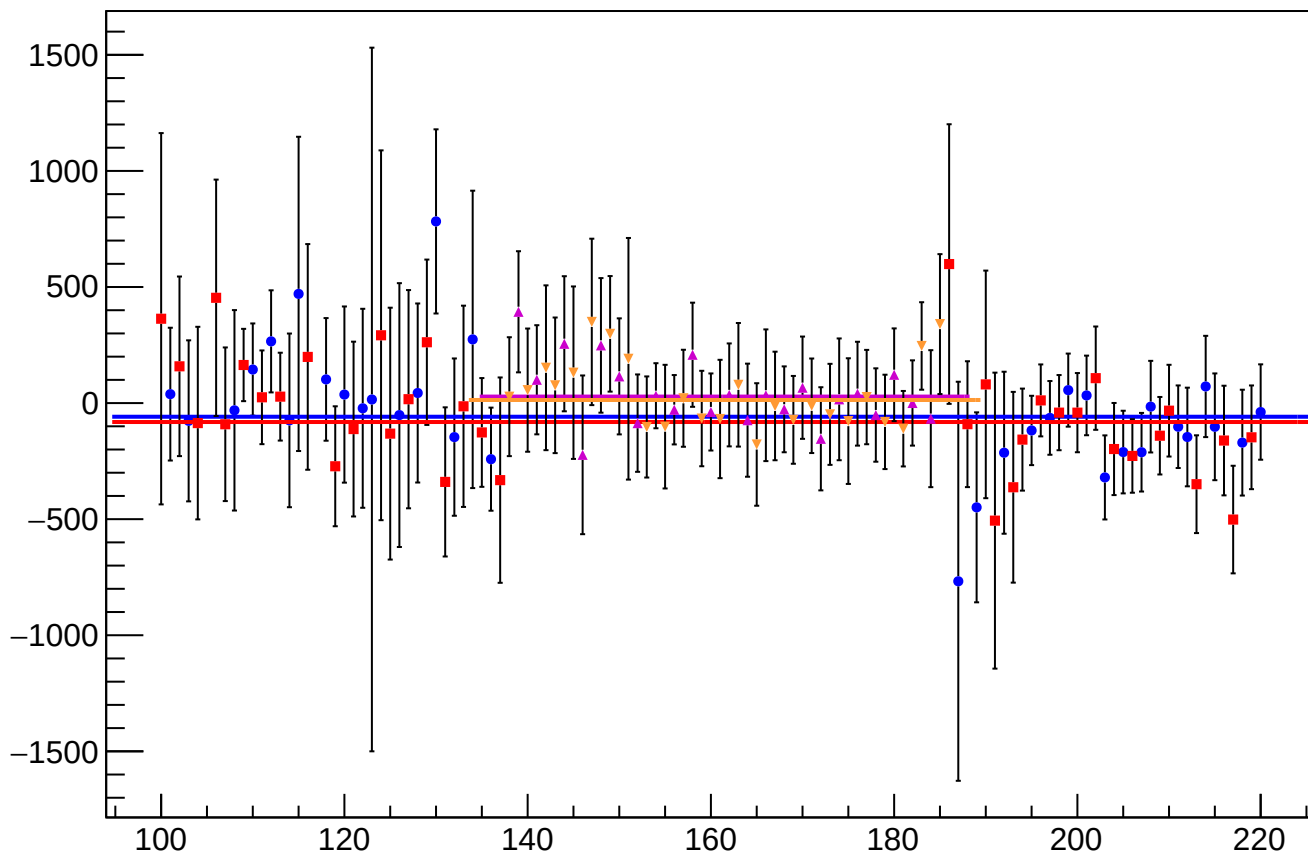
Right: 10.718 $\pm$ 0.001 χ^2 /NDF: 519435.4/70

In: 10.982 $\pm$ 0.001 χ^2 /NDF:448543.0/56

Out: 11.101 $\pm$ 0.001 χ^2 /NDF:504378.9/61

All: 11.042 $\pm$ 0.001 χ^2 /NDF: 957205.7/118

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.783 ± 41.178 $\chi^2/\text{NDF}: 17.3/33$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -81.555 ± 41.077 $\chi^2/\text{NDF}: 18.1/36$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

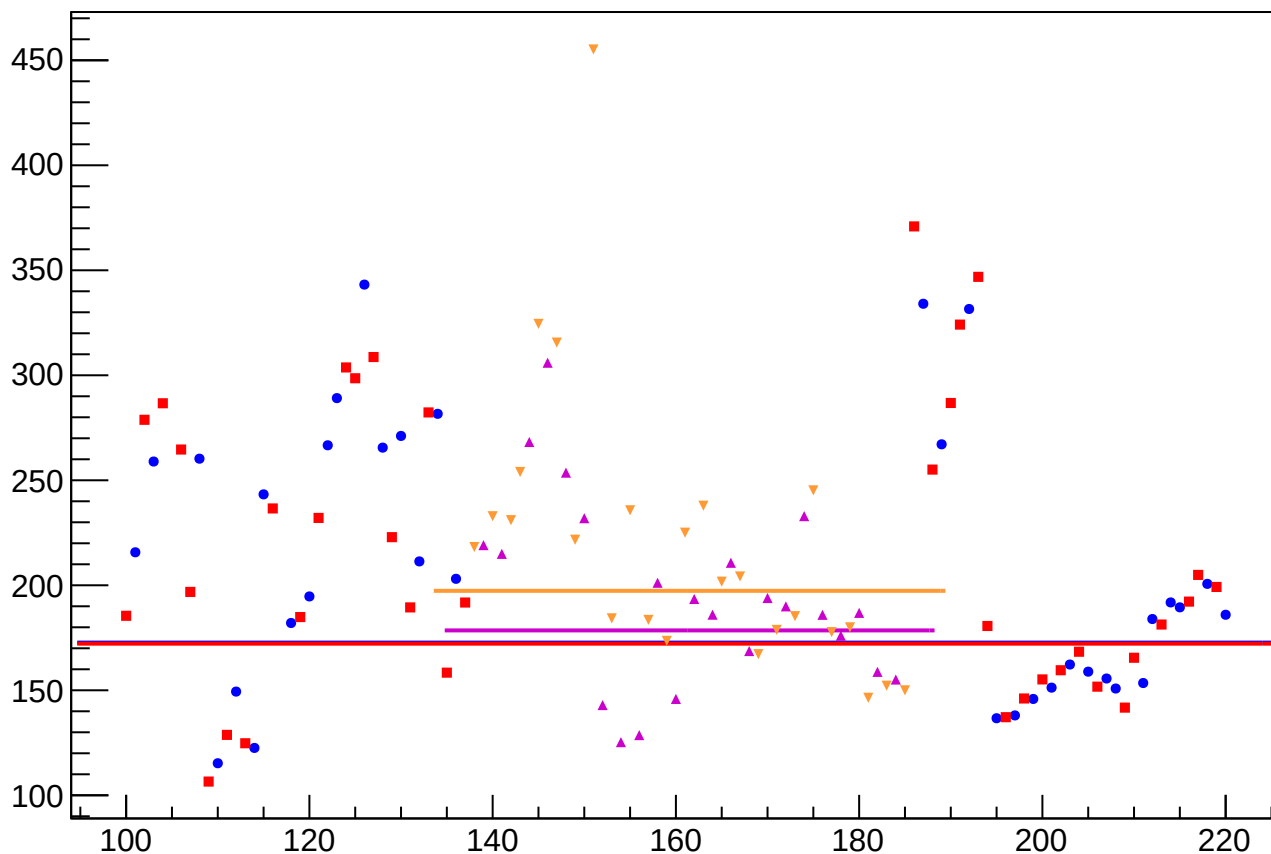
Right: -70.197 ± 29.081 $\chi^2/\text{NDF}: 35.6/70$

In: -18.904 ± 30.280 $\chi^2/\text{NDF}: 26.0/56$

Out: -41.118 ± 31.115 $\chi^2/\text{NDF}: 28.3/61$

All: -29.709 ± 21.701 $\chi^2/\text{NDF}: 54.5/118$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.703 $\pm$ 0.029 χ^2 /NDF: 2206363.9/33

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 172.204 $\pm$ 0.029 χ^2 /NDF: 2927330.1/36

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

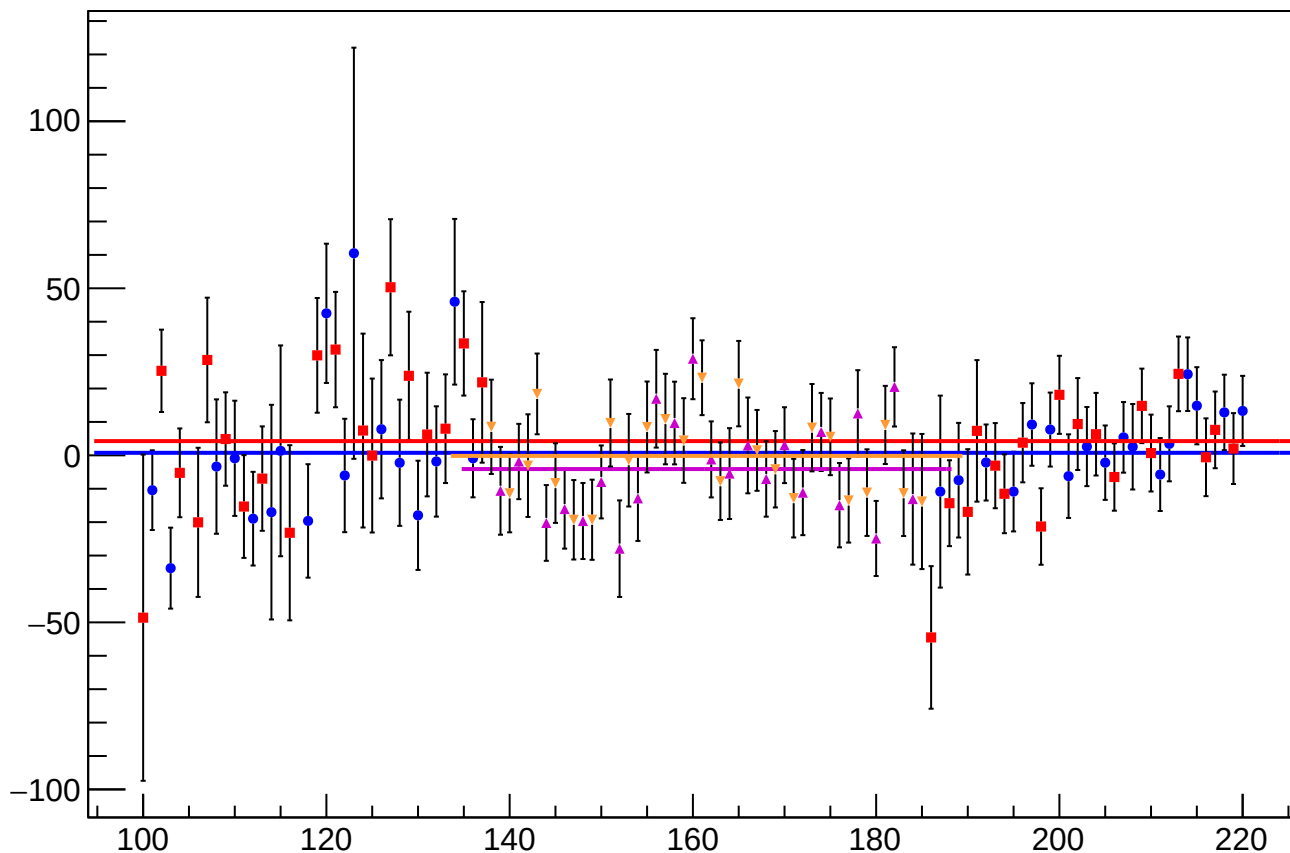
Right: 172.453 $\pm$ 0.021 χ^2 /NDF: 5133841.7/70

In: 175.371 $\pm$ 0.021 χ^2 /NDF:3866946.5/56

Out: 182.923 $\pm$ 0.022 χ^2 /NDF:5037737.6/61

All: 179.044 $\pm$ 0.015 χ^2 /NDF: 8965195.1/118

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.757 ± 2.374 χ^2/NDF : 34.6/33

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 4.258 ± 2.372 χ^2/NDF : 51.1/36

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

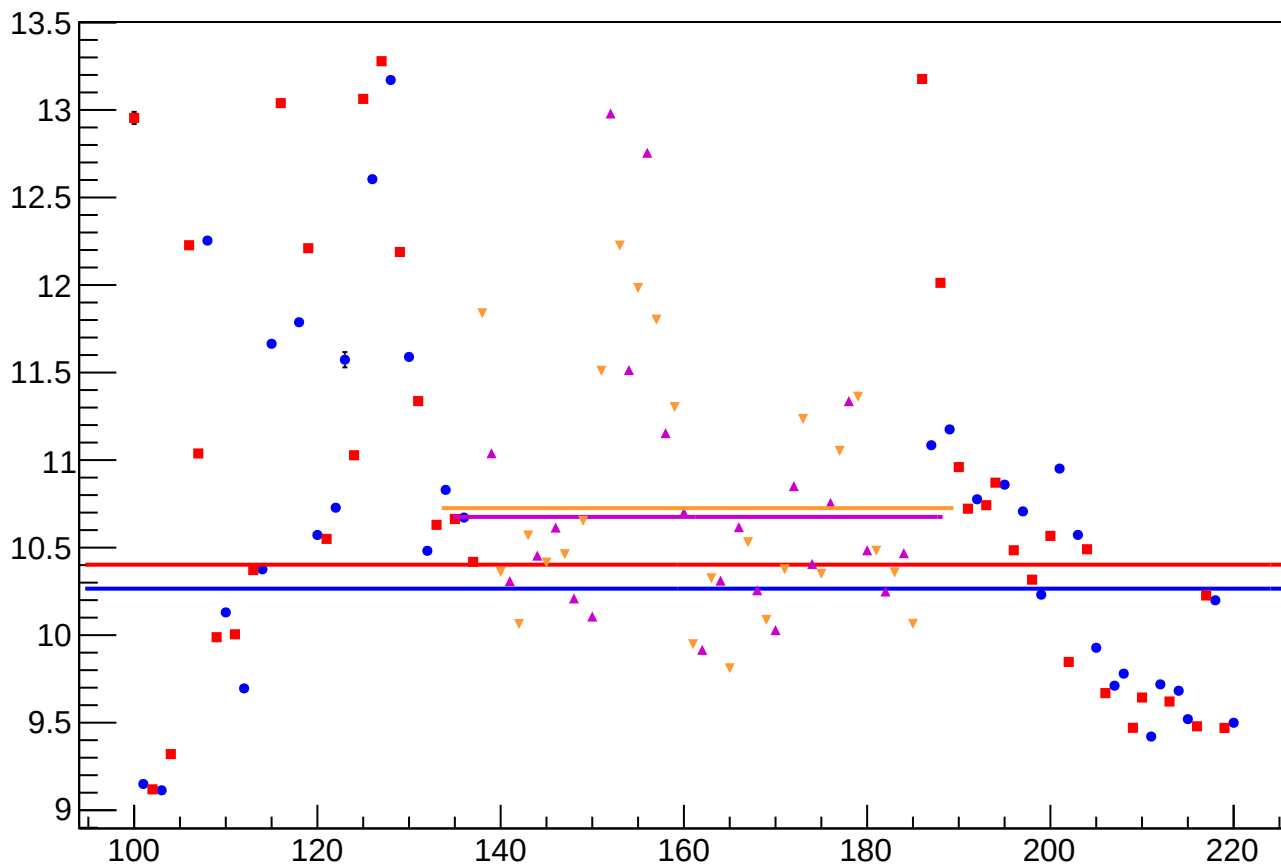
Right: 2.509 ± 1.678 χ^2/NDF : 86.8/70

In: -1.475 ± 1.746 χ^2/NDF : 68.1/56

Out: 2.178 ± 1.727 χ^2/NDF : 77.1/61

All: 0.371 ± 1.228 χ^2/NDF : 147.4/118

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.266 $\pm$ 0.002 χ^2 /NDF: 248946.3/33

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.403 $\pm$ 0.002 χ^2 /NDF: 340056.4/36

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

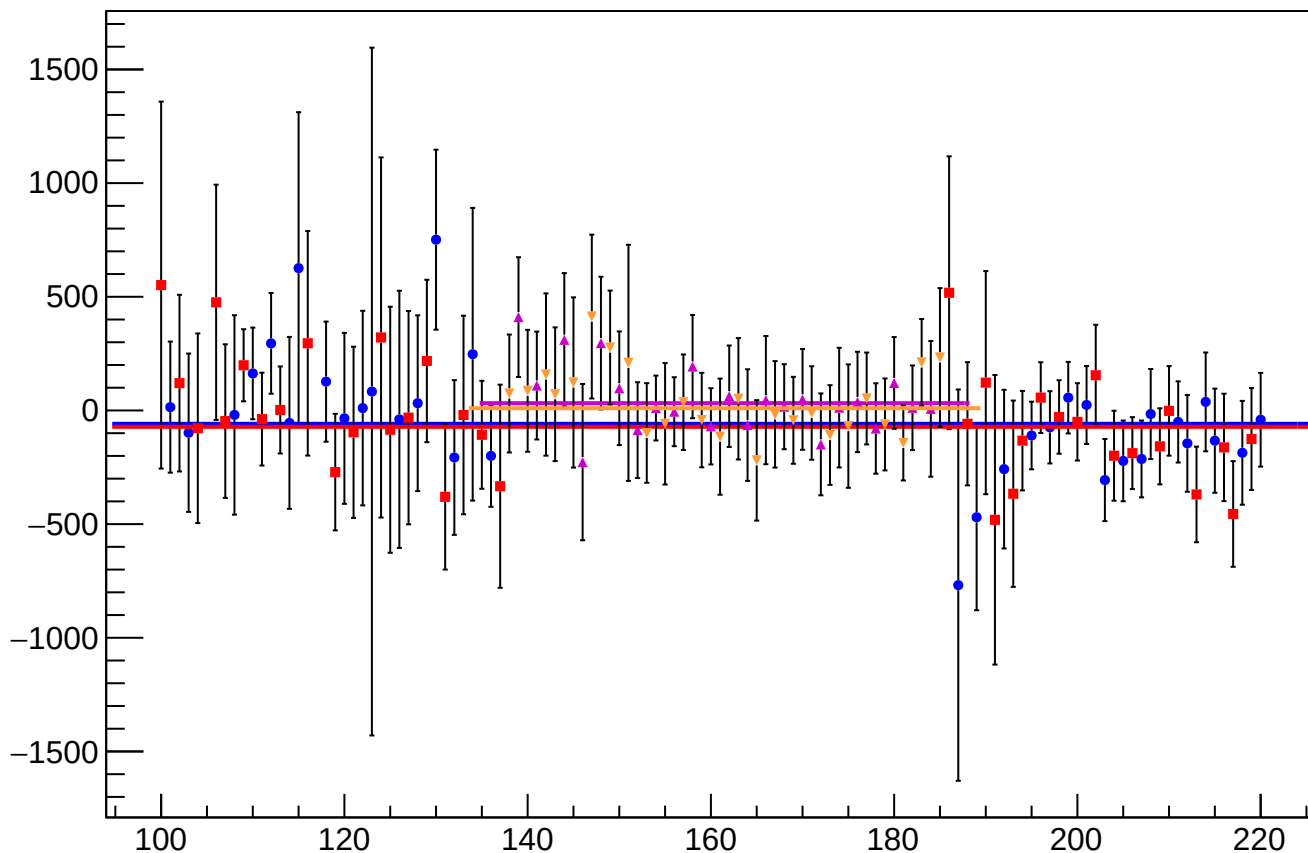
Right: 10.334 $\pm$ 0.001 χ^2 /NDF: 592335.8/70

In: 10.454 $\pm$ 0.001 χ^2 /NDF:422254.5/56

Out: 10.554 $\pm$ 0.001 χ^2 /NDF:489638.8/61

All: 10.504 $\pm$ 0.001 χ^2 /NDF: 915245.6/118

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.740 ± 41.240 $\chi^2/\text{NDF}: 17.7/33$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -71.977 ± 41.196 $\chi^2/\text{NDF}: 18.6/36$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

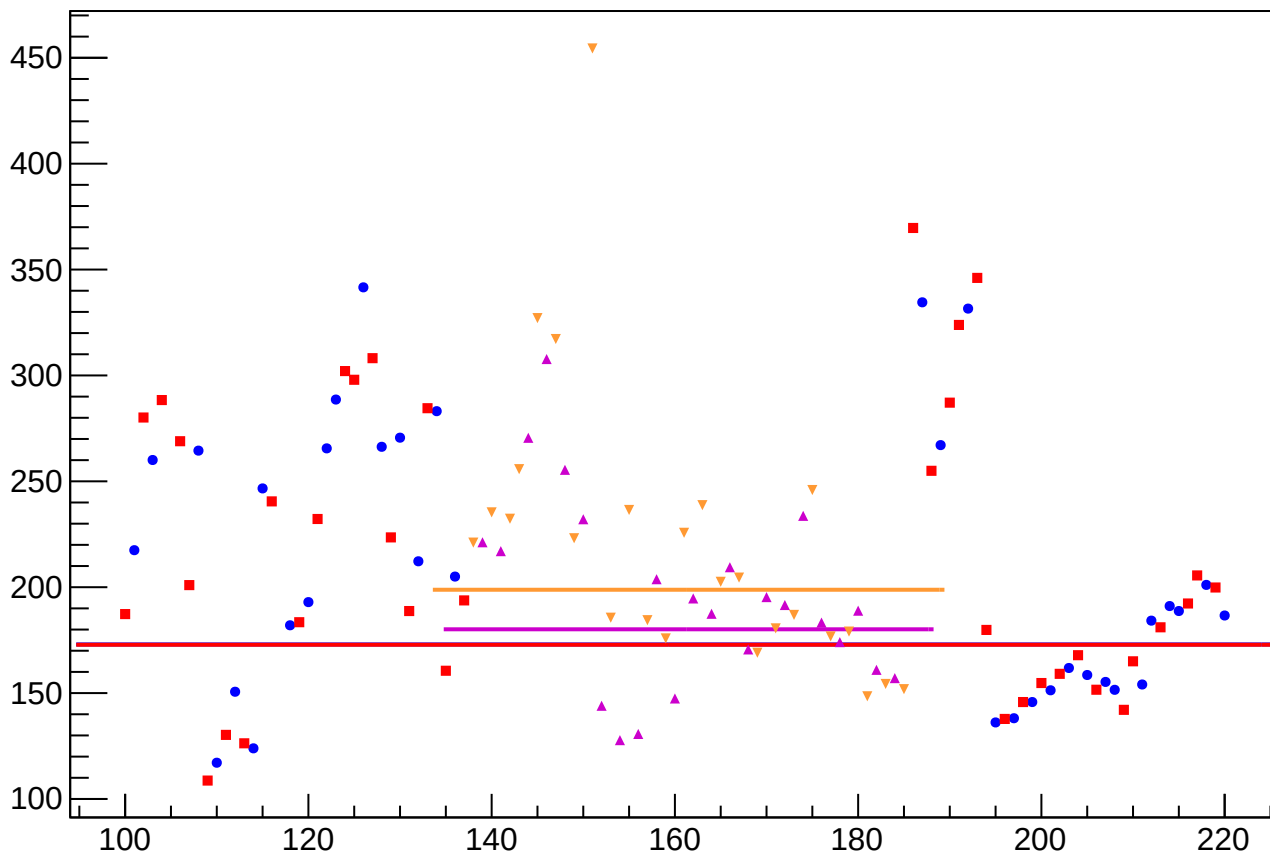
Right: -65.365 ± 29.145 $\chi^2/\text{NDF}: 36.4/70$

In: -17.362 ± 30.415 $\chi^2/\text{NDF}: 27.1/56$

Out: -37.272 ± 31.255 $\chi^2/\text{NDF}: 27.9/61$

All: -27.046 ± 21.798 $\chi^2/\text{NDF}: 55.2/118$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.973+/-0.029 χ^2/NDF : 2202431.9/33

Left Out: 198.800+/-0.034 χ^2/NDF : 1763119.1/24

Right Out: 172.830+/-0.029 χ^2/NDF : 2885126.4/36

Left In: 180.123+/-0.032 χ^2/NDF : 1593842.6/22

Left: 188.872+/-0.023 χ^2/NDF : 3518071.9/47

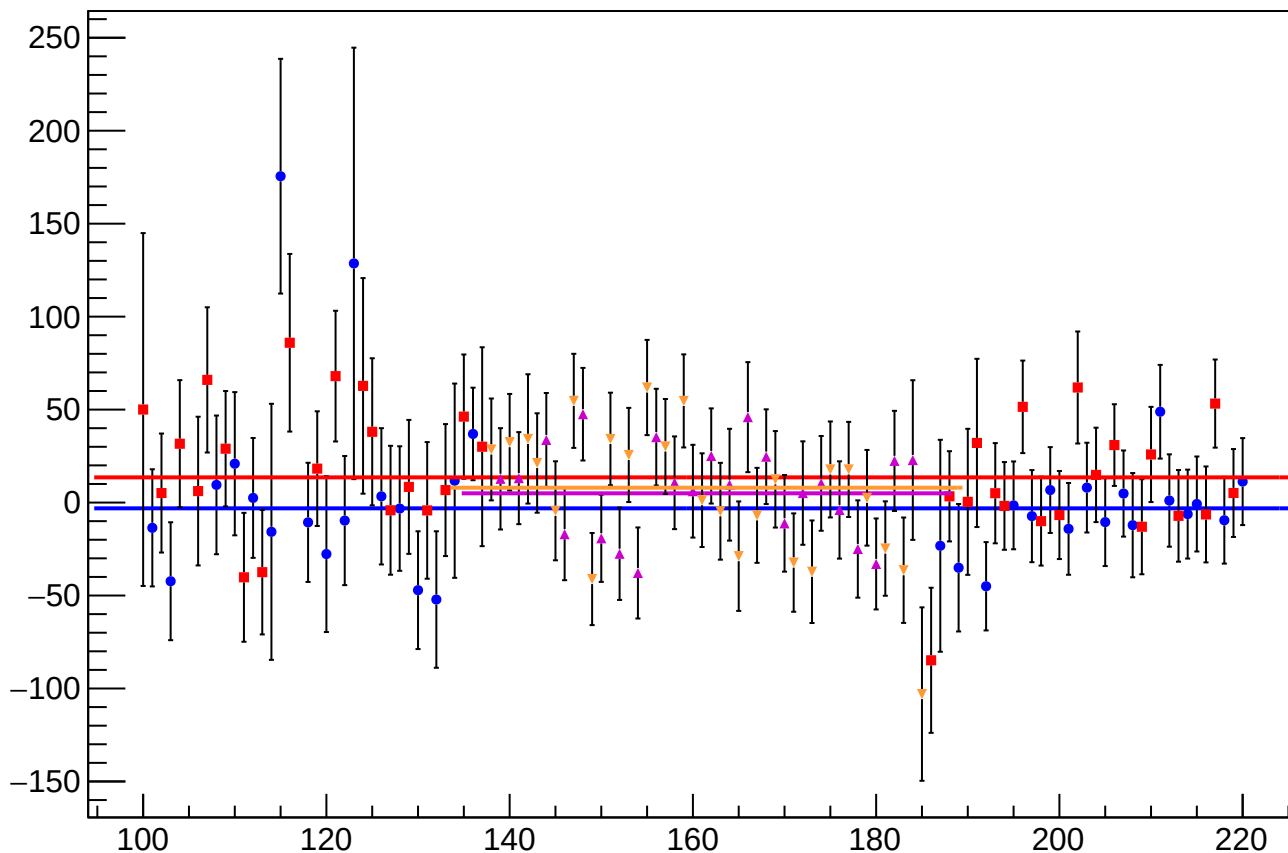
Right: 172.901+/-0.021 χ^2/NDF : 5087570.3/70

In: 176.234+/-0.022 χ^2/NDF : 3823695.1/56

Out: 183.851+/-0.022 χ^2/NDF : 4985547.5/61

All: 179.939+/-0.015 χ^2/NDF : 8870259.9/118

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.106 ± 5.046 χ^2/NDF : 28.2/33

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.550 ± 5.005 χ^2/NDF : 34.8/36

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

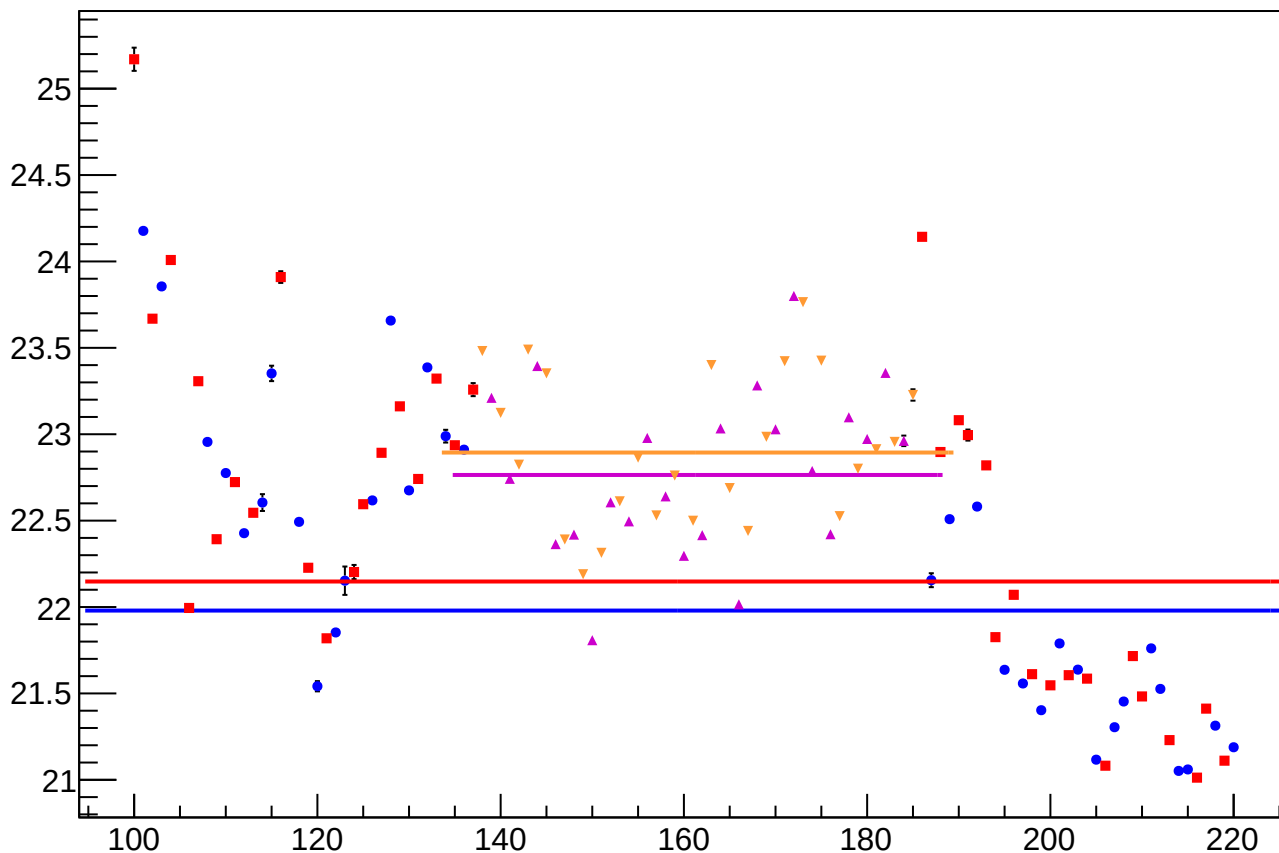
Right: 5.289 ± 3.553 χ^2/NDF : 68.5/70

In: 0.627 ± 3.701 χ^2/NDF : 49.8/56

Out: 10.943 ± 3.648 χ^2/NDF : 72.9/61

All: 5.859 ± 2.598 χ^2/NDF : 126.6/118

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.980+/-0.004 χ^2/NDF : 54249.5/33

Left Out: 22.894+/-0.004 χ^2/NDF : 13070.5/24

Right Out: 22.148+/-0.004 χ^2/NDF : 59143.7/36

Left In: 22.764+/-0.004 χ^2/NDF : 14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

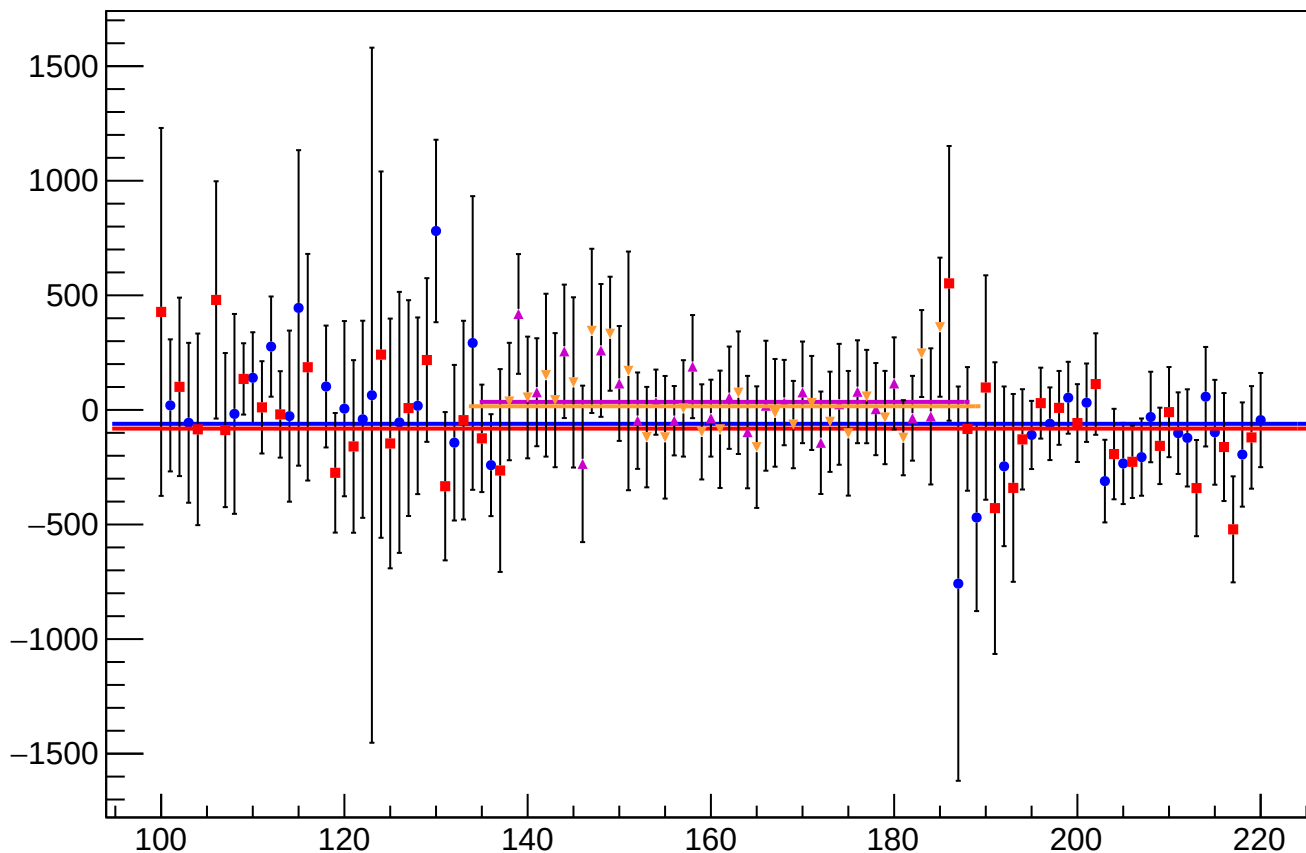
Right: 22.064+/-0.003 χ^2/NDF : 114513.1/70

In: 22.342+/-0.003 χ^2/NDF : 91266.6/56

Out: 22.498+/-0.003 χ^2/NDF : 93068.0/61

All: 22.421+/-0.002 χ^2/NDF : 186126.7/118

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.621 ± 41.123 $\chi^2/\text{NDF}: 17.3/33$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -81.489 ± 41.028 $\chi^2/\text{NDF}: 17.1/36$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

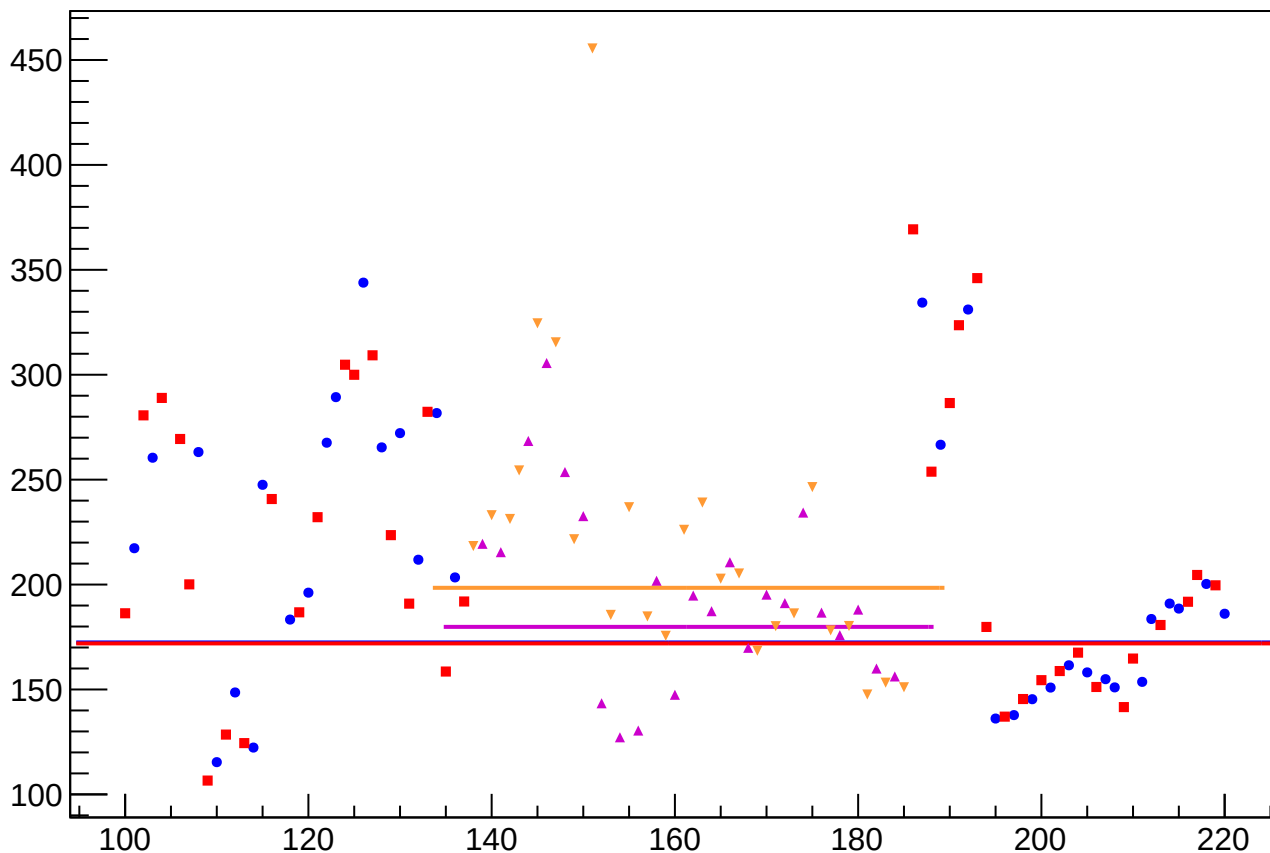
Right: -71.079 ± 29.045 $\chi^2/\text{NDF}: 34.5/70$

In: -17.112 ± 30.348 $\chi^2/\text{NDF}: 26.3/56$

Out: -40.272 ± 31.160 $\chi^2/\text{NDF}: 27.9/61$

All: -28.386 ± 21.741 $\chi^2/\text{NDF}: 54.5/118$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.417 ± 0.029 χ^2/NDF : 2233619.5/33

Left Out: 198.450 ± 0.034 χ^2/NDF : 1761433.9/24

Right Out: 171.949 ± 0.029 χ^2/NDF : 2955723.7/36

Left In: 179.839 ± 0.032 χ^2/NDF : 1588834.3/22

Left: 188.558 ± 0.023 χ^2/NDF : 3510745.5/47

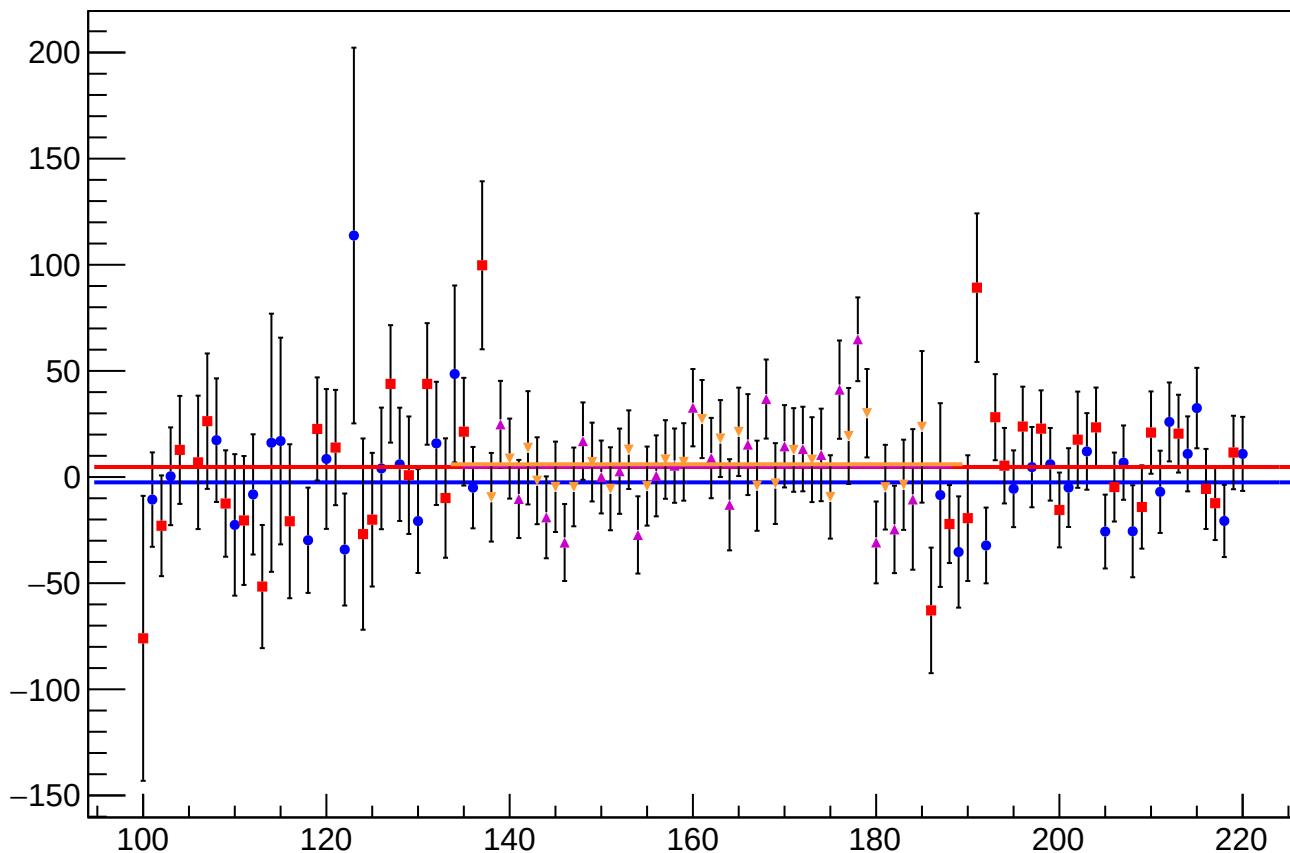
Right: 172.182 ± 0.021 χ^2/NDF : 5189472.9/70

In: 175.797 ± 0.021 χ^2/NDF : 3852124.2/56

Out: 183.164 ± 0.022 χ^2/NDF : 5070280.4/61

All: 179.383 ± 0.015 χ^2/NDF : 8979784.4/118

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.503 ± 3.830 $\chi^2/\text{NDF}: 25.1/33$

Left Out: 6.020 ± 4.017 $\chi^2/\text{NDF}: 8.1/24$

Right Out: 4.734 ± 3.806 $\chi^2/\text{NDF}: 44.9/36$

Left In: 4.943 ± 4.108 $\chi^2/\text{NDF}: 34.8/22$

Left: 5.494 ± 2.872 $\chi^2/\text{NDF}: 43.0/47$

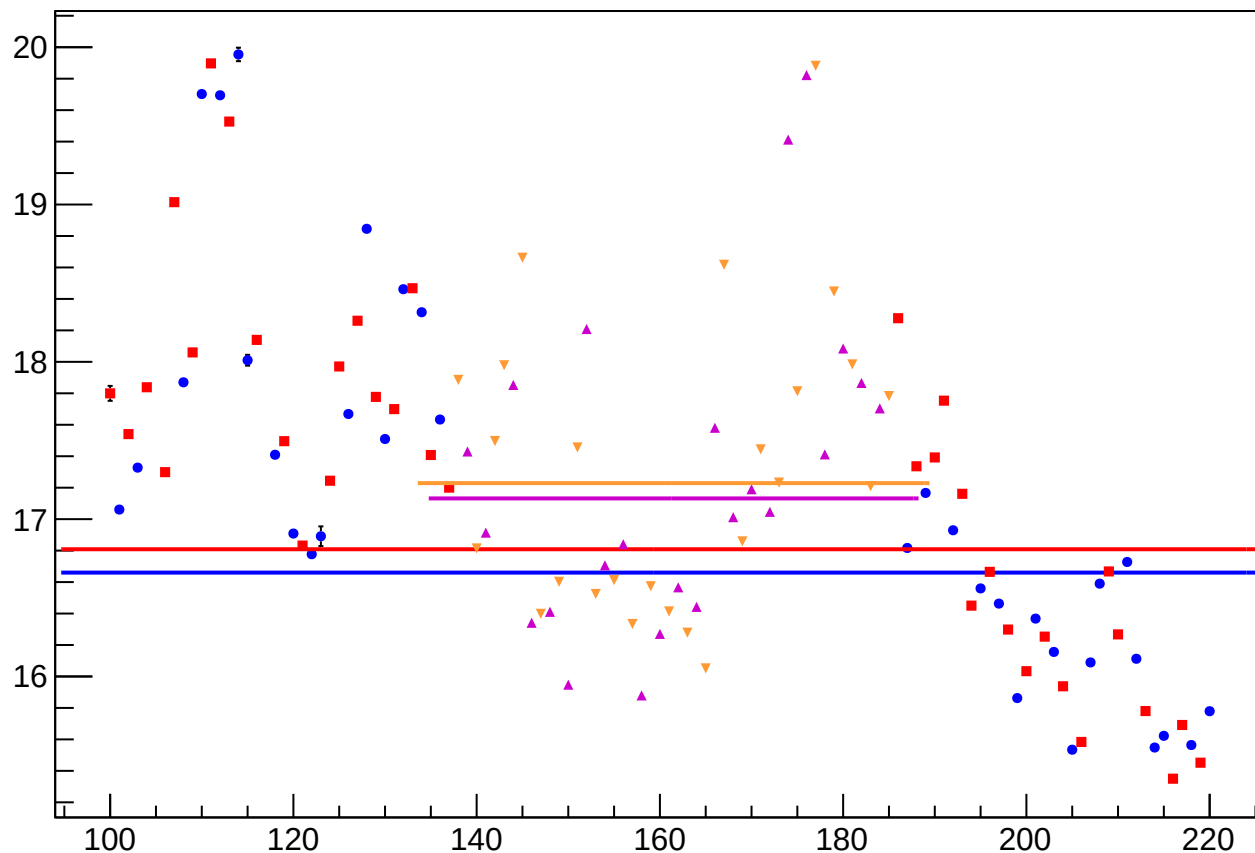
Right: 1.139 ± 2.700 $\chi^2/\text{NDF}: 71.8/70$

In: 0.960 ± 2.801 $\chi^2/\text{NDF}: 61.7/56$

Out: 5.342 ± 2.763 $\chi^2/\text{NDF}: 53.1/61$

All: 3.182 ± 1.967 $\chi^2/\text{NDF}: 116.0/118$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.660 $\pm$ 0.003 χ^2 /NDF: 136619.1/33

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 16.809 $\pm$ 0.003 χ^2 /NDF: 157459.4/36

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

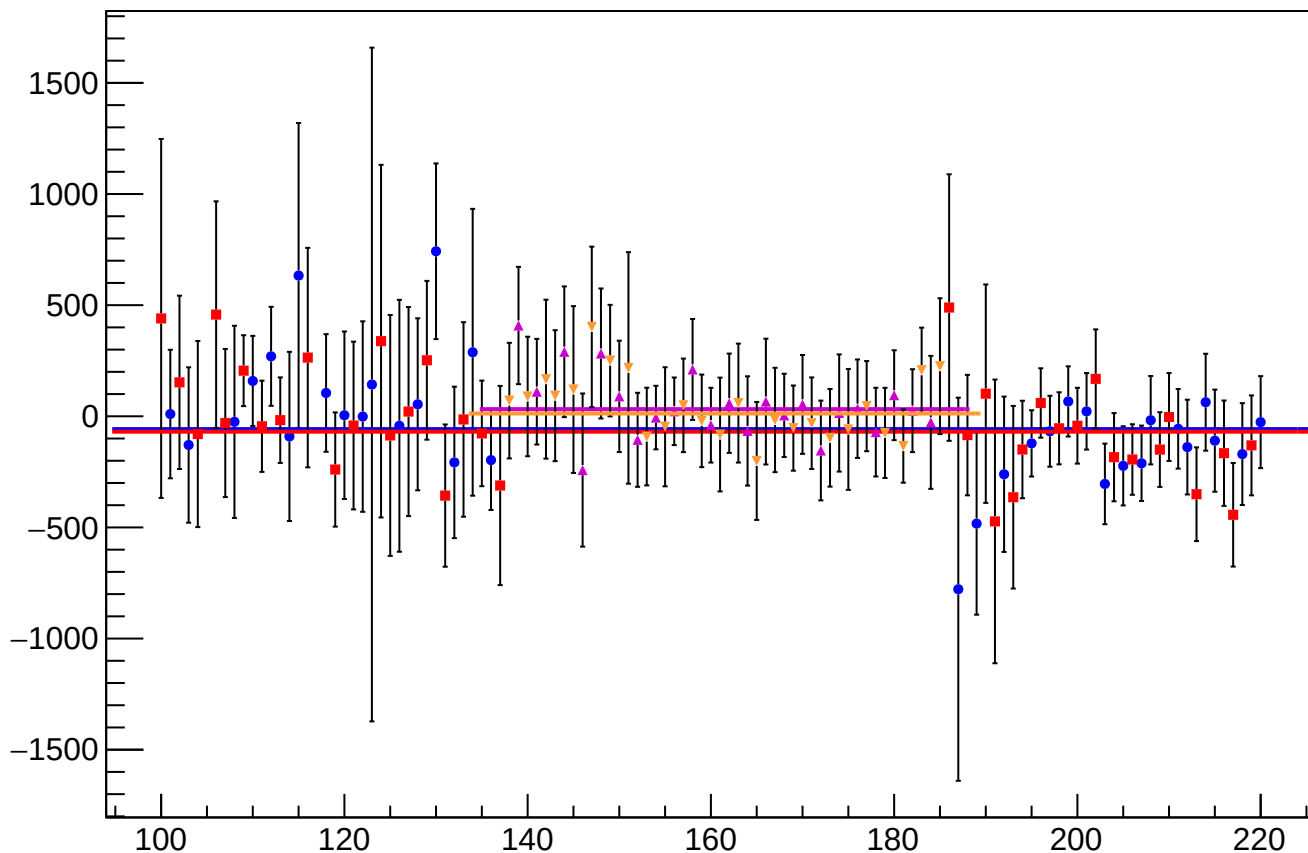
Right: 16.735 $\pm$ 0.002 χ^2 /NDF: 295590.2/70

In: 16.880 $\pm$ 0.002 χ^2 /NDF:254717.4/56

Out: 17.008 $\pm$ 0.002 χ^2 /NDF:267629.4/61

All: 16.944 $\pm$ 0.001 χ^2 /NDF: 524461.8/118

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.684 ± 41.364 $\chi^2/\text{NDF}: 17.4/33$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -69.210 ± 41.306 $\chi^2/\text{NDF}: 17.8/36$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

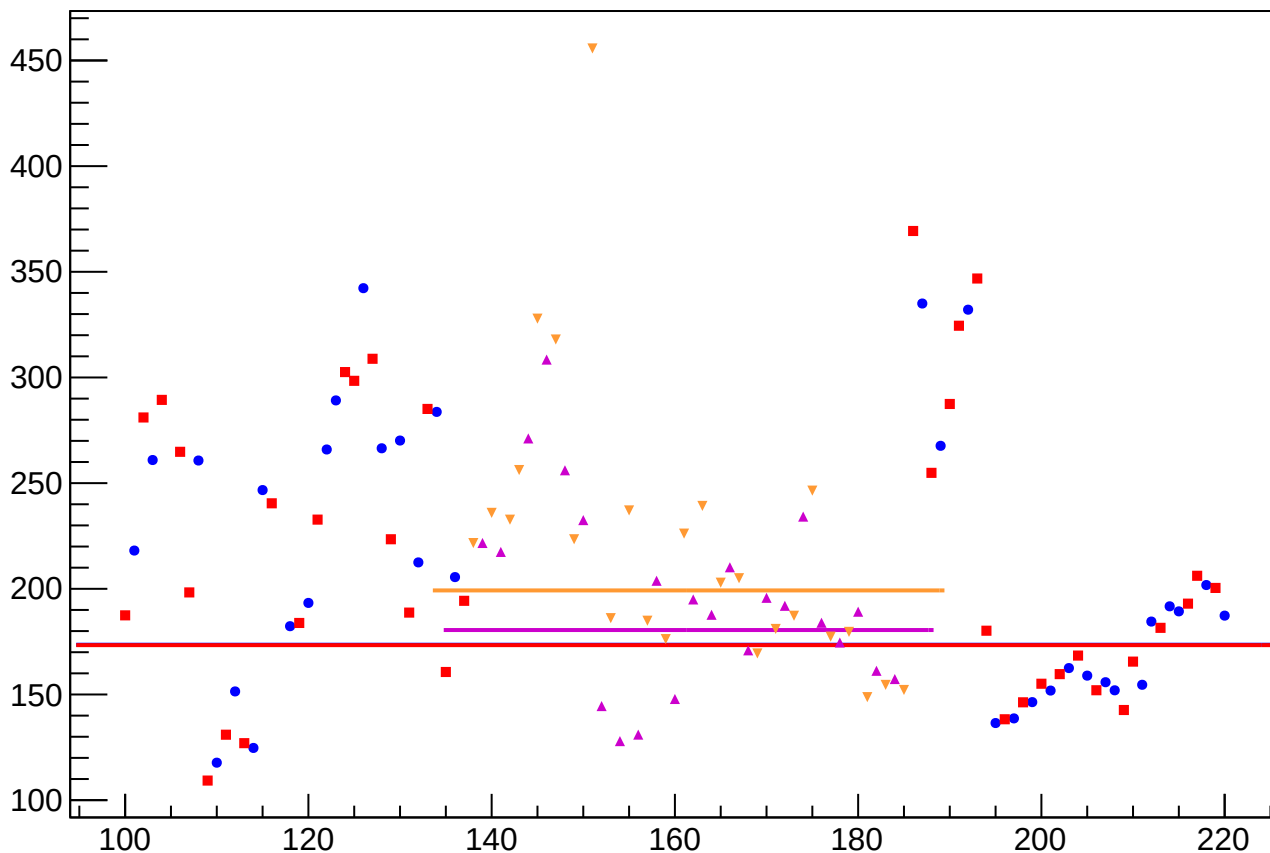
Right: -63.455 ± 29.229 $\chi^2/\text{NDF}: 35.2/70$

In: -16.667 ± 30.494 $\chi^2/\text{NDF}: 26.5/56$

Out: -34.527 ± 31.333 $\chi^2/\text{NDF}: 26.3/61$

All: -25.355 ± 21.853 $\chi^2/\text{NDF}: 52.9/118$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.540 ± 0.029 χ^2/NDF : 2184162.7/33

Left Out: 199.241 ± 0.034 χ^2/NDF : 1764097.7/24

Right Out: 173.351 ± 0.029 χ^2/NDF : 2860450.0/36

Left In: 180.494 ± 0.032 χ^2/NDF : 1593784.1/22

Left: 189.274 ± 0.023 χ^2/NDF : 3519511.1/47

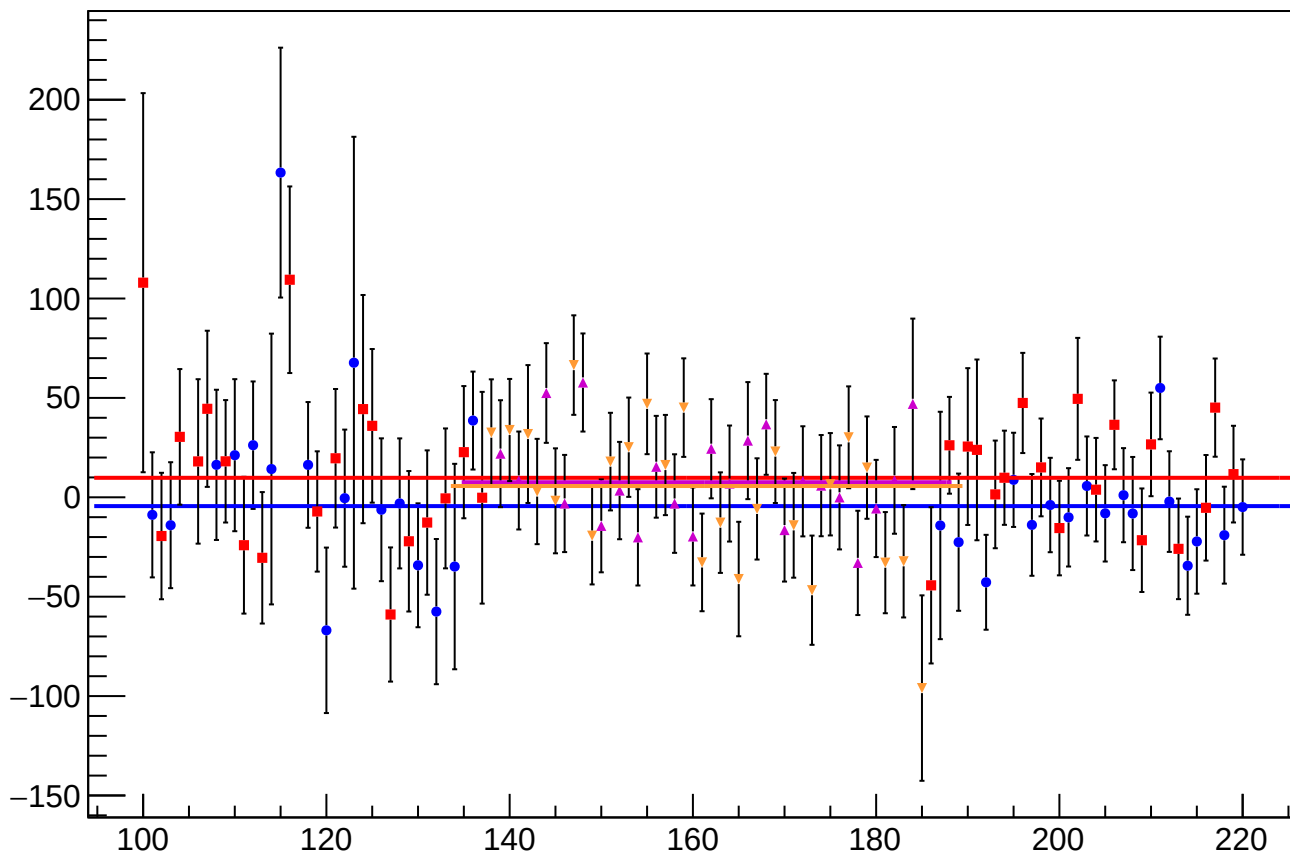
Right: 173.445 ± 0.021 χ^2/NDF : 5044633.6/70

In: 176.715 ± 0.022 χ^2/NDF : 3803750.2/56

Out: 184.344 ± 0.022 χ^2/NDF : 4958161.5/61

All: 180.426 ± 0.015 χ^2/NDF : 8822804.2/118

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.432 ± 5.106 χ^2/NDF : 29.8/33

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.807 ± 5.048 χ^2/NDF : 32.5/36

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

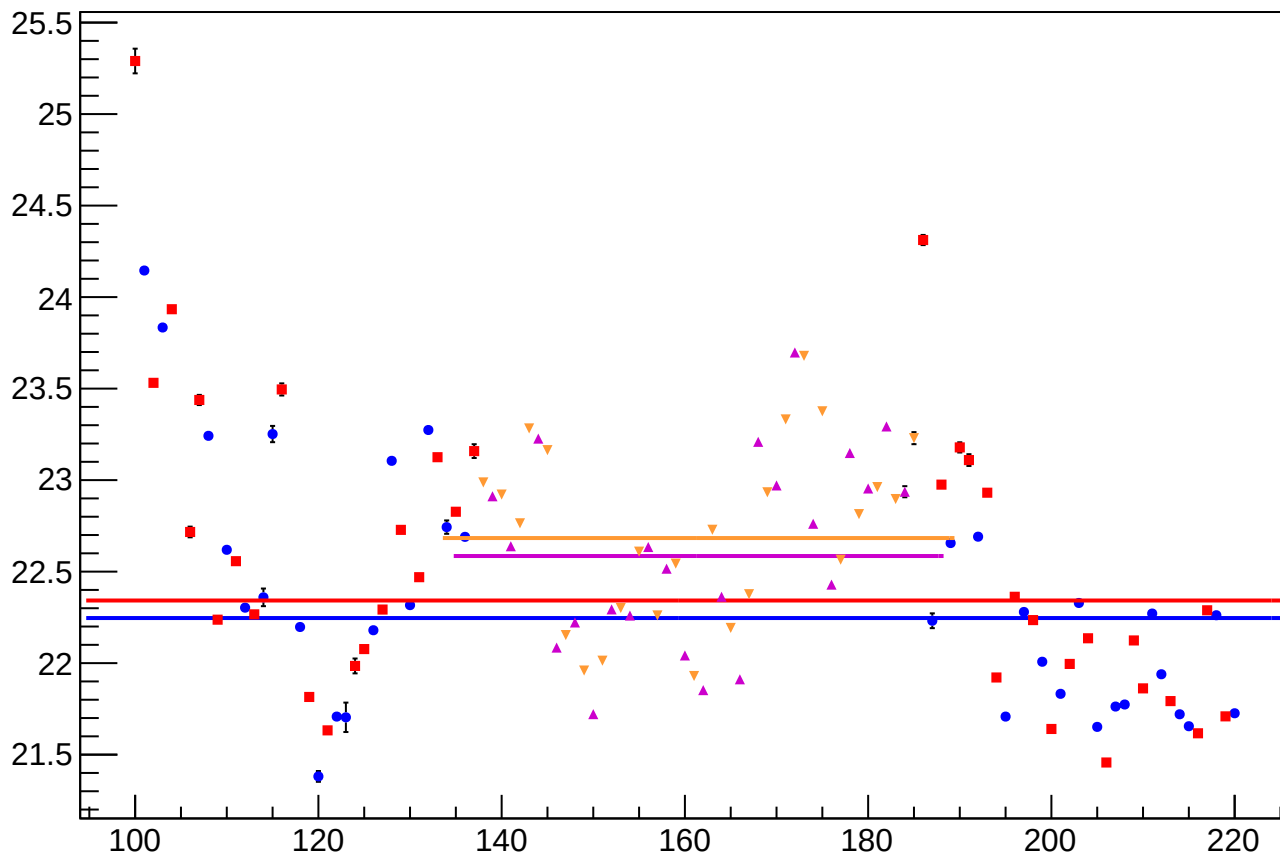
Right: 2.768 ± 3.590 χ^2/NDF : 66.1/70

In: 1.242 ± 3.711 χ^2/NDF : 50.7/56

Out: 7.832 ± 3.648 χ^2/NDF : 69.2/61

All: 4.593 ± 2.601 χ^2/NDF : 121.5/118

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.246 $\pm$ 0.004 χ^2 /NDF: 28167.8/33

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.342 $\pm$ 0.004 χ^2 /NDF: 35201.2/36

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF:18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

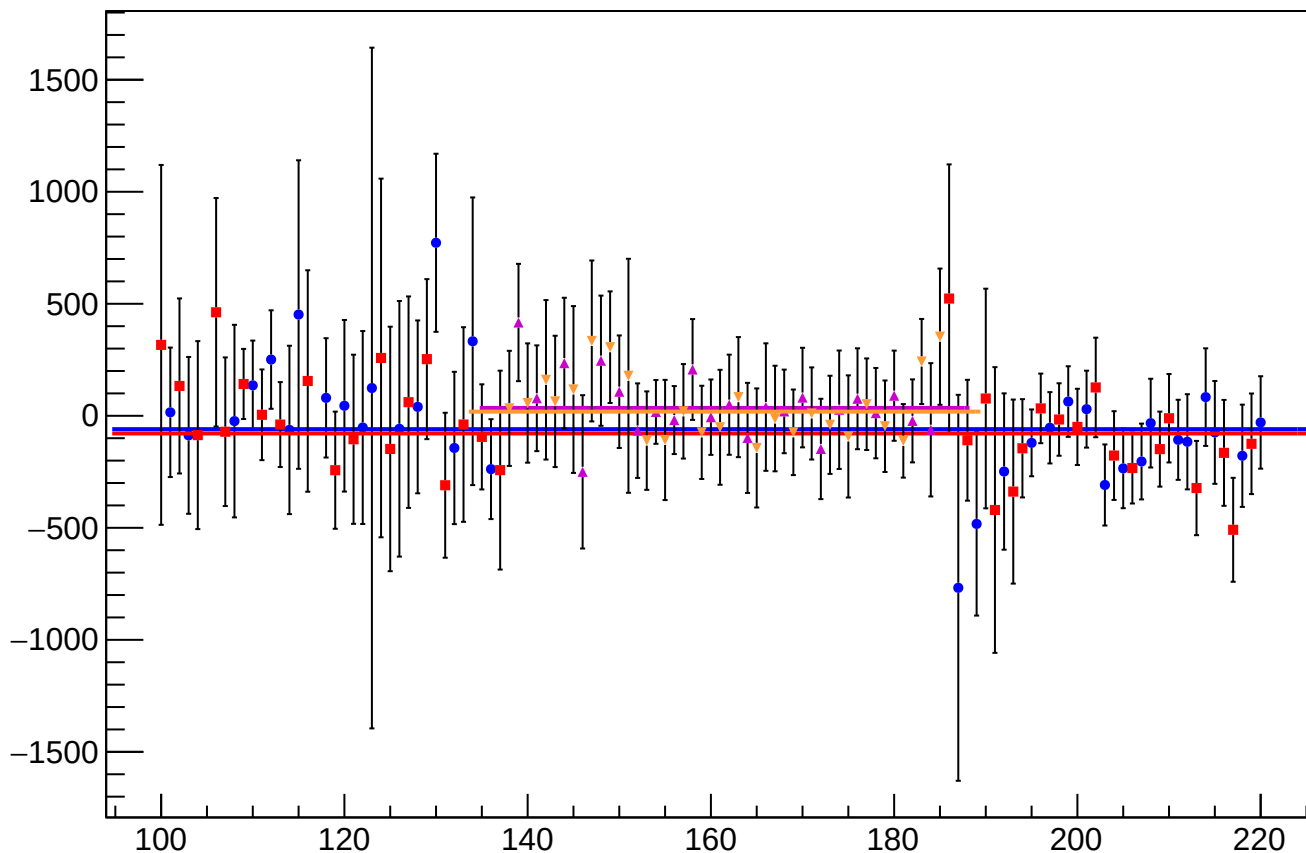
Right: 22.295 $\pm$ 0.003 χ^2 /NDF: 63725.3/70

In: 22.406 $\pm$ 0.003 χ^2 /NDF:50412.4/56

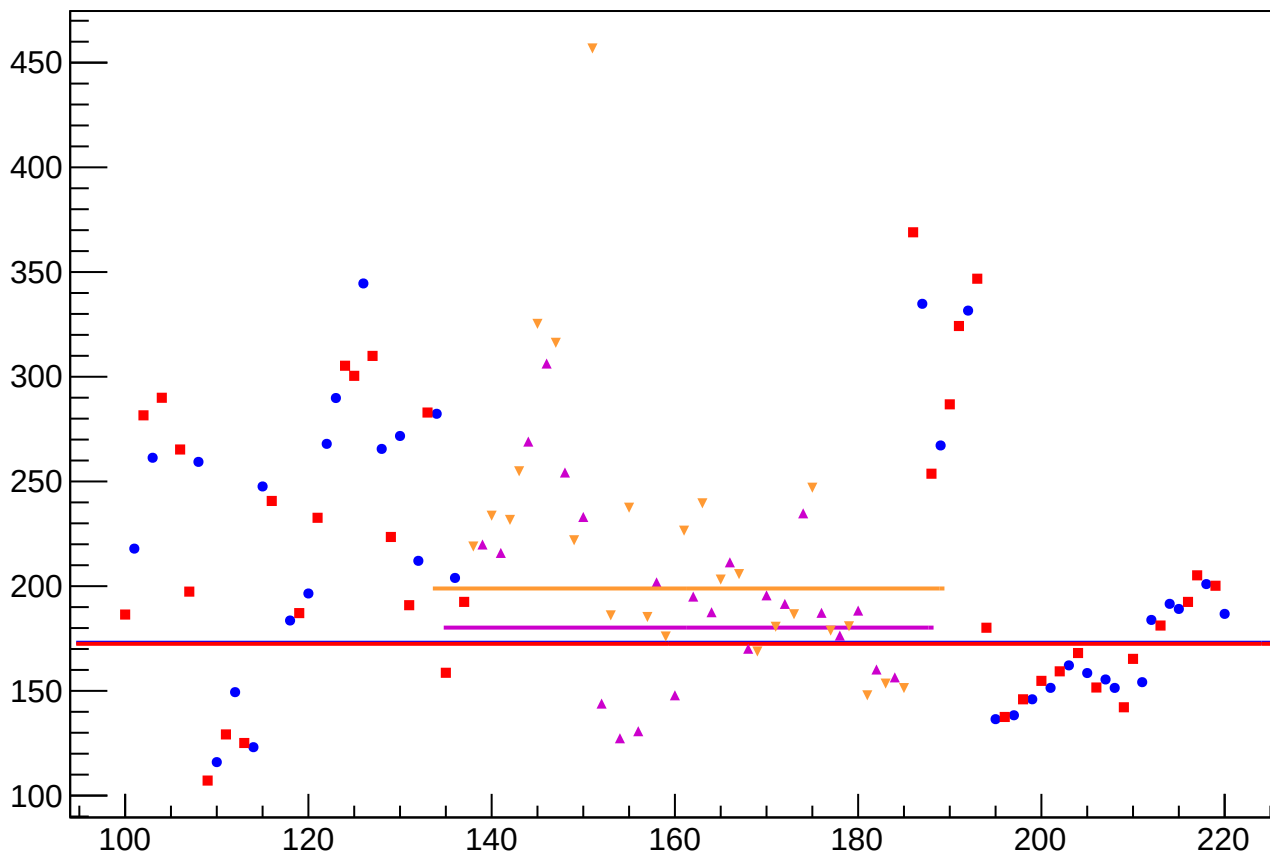
Out: 22.505 $\pm$ 0.003 χ^2 /NDF:55885.7/61

All: 22.457 $\pm$ 0.002 χ^2 /NDF: 107021.1/118

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.989 $\pm$ 0.029 χ^2 /NDF: 2214745.0/33

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF: 1762454.6/24

Right Out: 172.476 $\pm$ 0.029 χ^2 /NDF: 2930093.5/36

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF: 1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

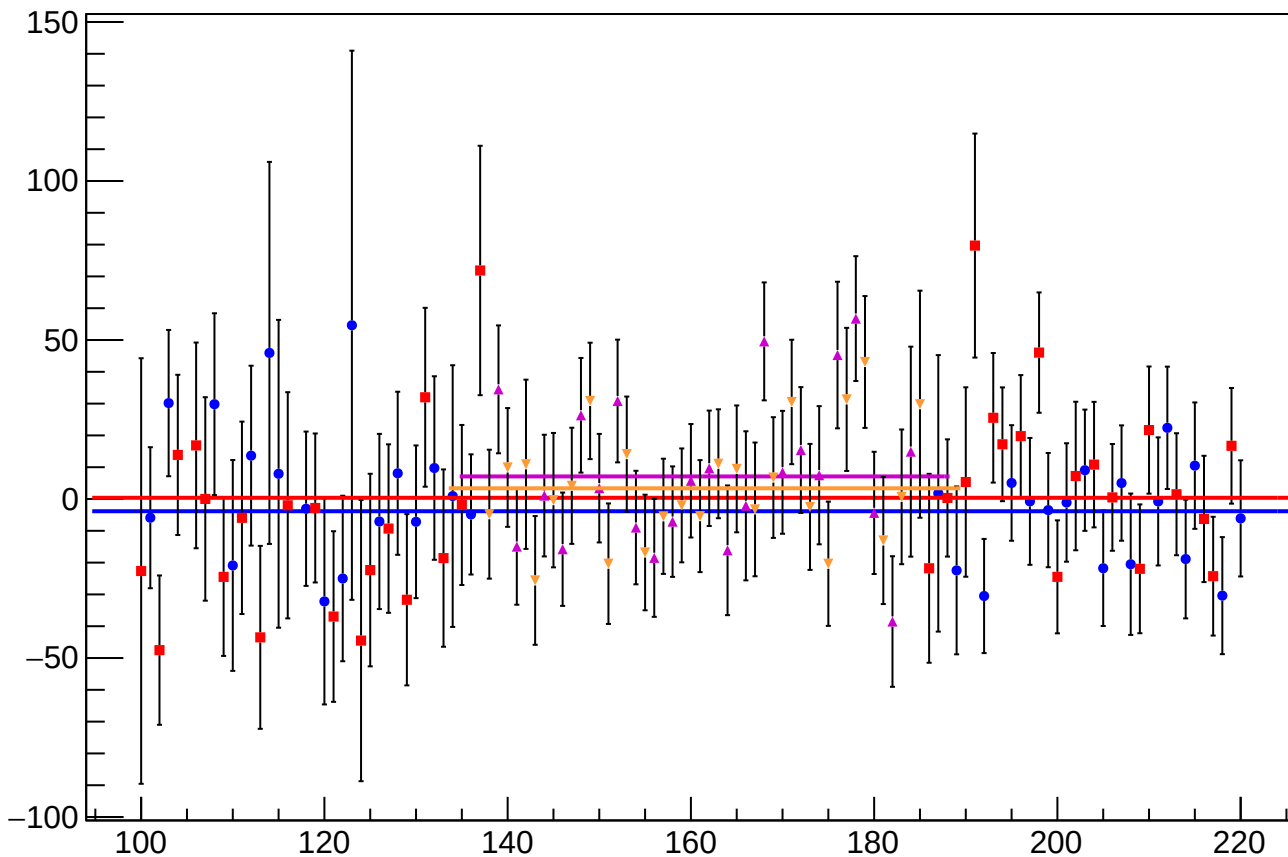
Right: 172.732 $\pm$ 0.021 χ^2 /NDF: 5144993.5/70

In: 176.280 $\pm$ 0.022 χ^2 /NDF: 3831673.3/56

Out: 183.661 $\pm$ 0.022 χ^2 /NDF: 5041678.8/61

All: 179.873 $\pm$ 0.015 χ^2 /NDF: 8930652.6/118

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.842 ± 3.910 $\chi^2/\text{NDF}: 17.7/33$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 0.384 ± 3.866 $\chi^2/\text{NDF}: 40.6/36$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

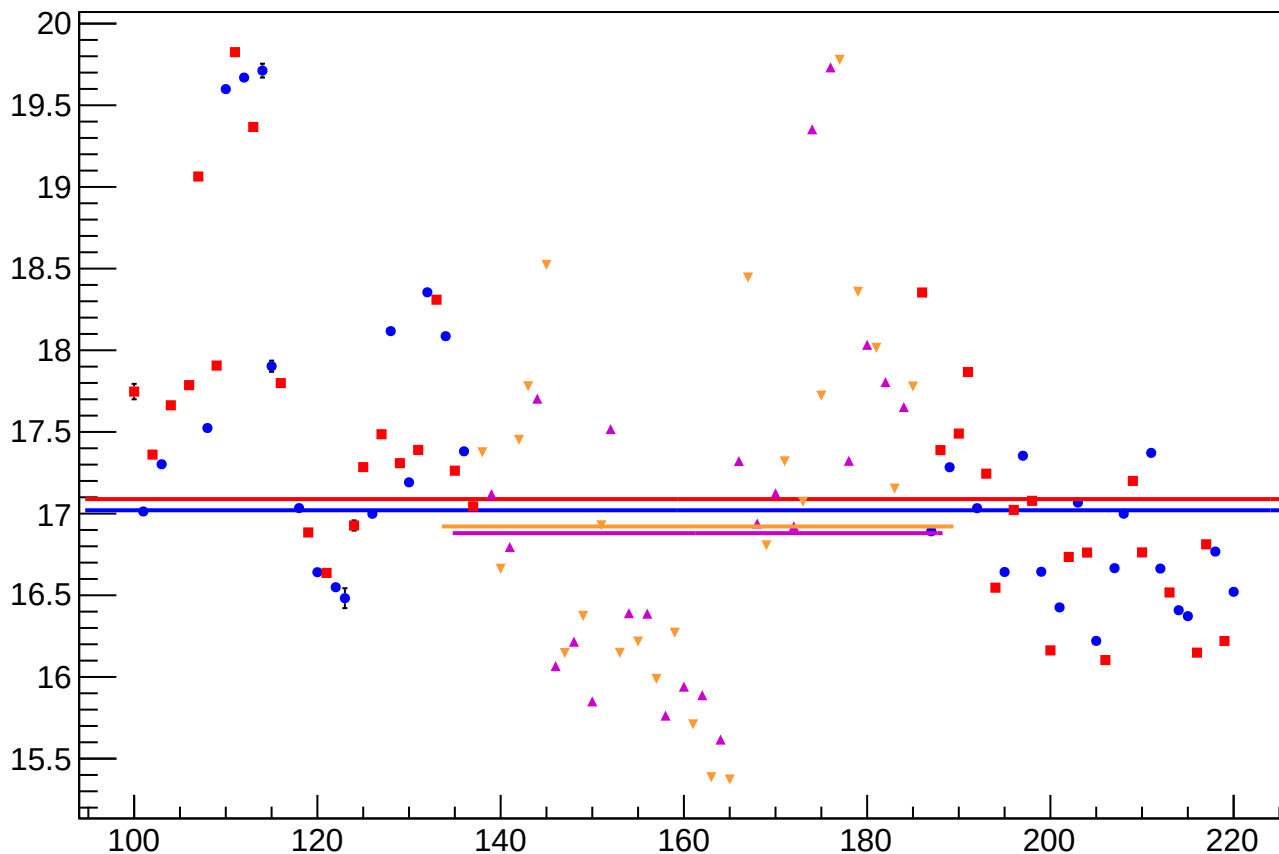
Right: -1.705 ± 2.749 $\chi^2/\text{NDF}: 58.9/70$

In: 1.440 ± 2.812 $\chi^2/\text{NDF}: 54.0/56$

Out: 1.847 ± 2.762 $\chi^2/\text{NDF}: 59.7/61$

All: 1.647 ± 1.970 $\chi^2/\text{NDF}: 113.7/118$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.020 $\pm$ 0.003 χ^2 /NDF: 63025.6/33

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.089 $\pm$ 0.003 χ^2 /NDF: 80169.7/36

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

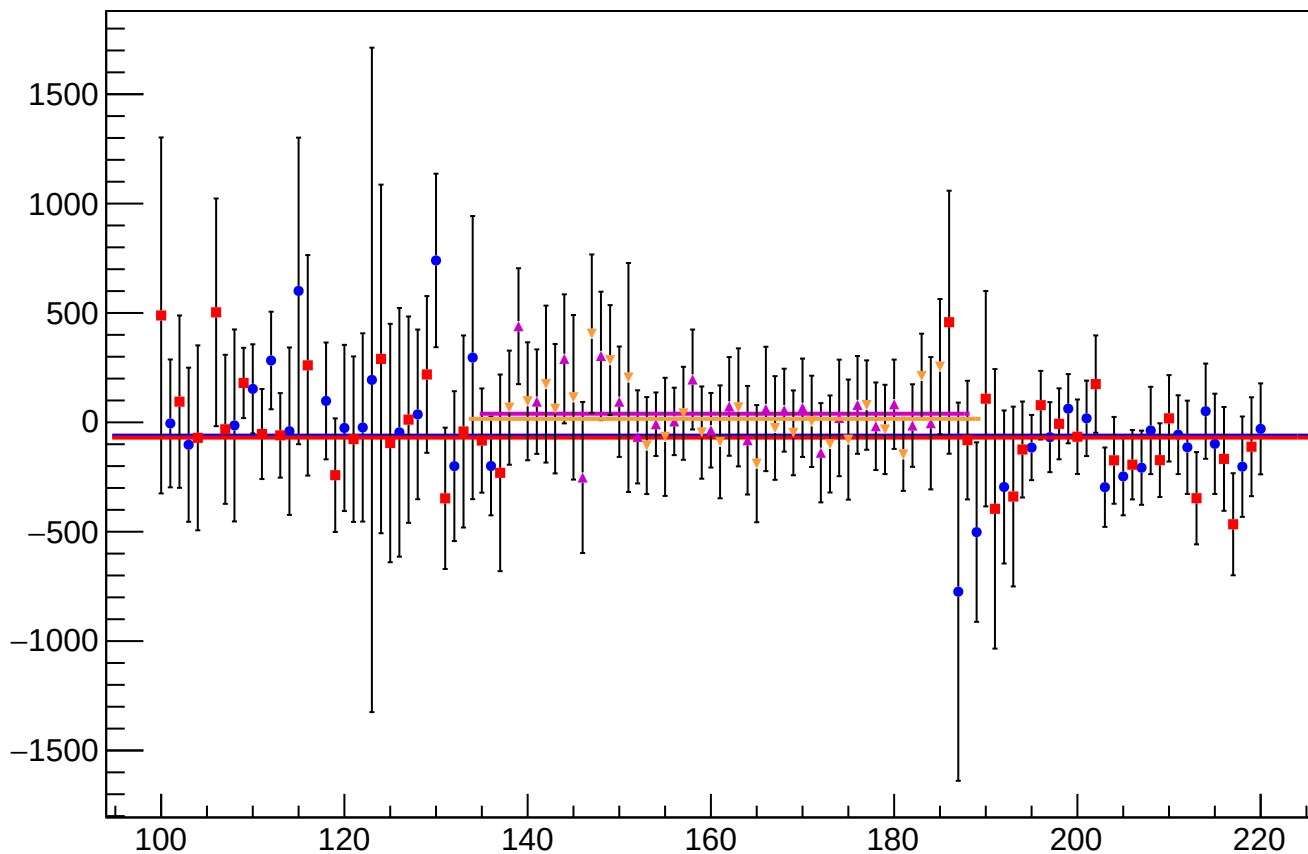
Right: 17.055 $\pm$ 0.002 χ^2 /NDF: 143506.6/70

In: 16.953 $\pm$ 0.002 χ^2 /NDF:186000.2/56

Out: 17.007 $\pm$ 0.002 χ^2 /NDF:221001.4/61

All: 16.980 $\pm$ 0.001 χ^2 /NDF: 407379.0/118

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.701 ± 41.474 $\chi^2/\text{NDF}: 17.4/33$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -69.838 ± 41.436 $\chi^2/\text{NDF}: 17.1/36$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

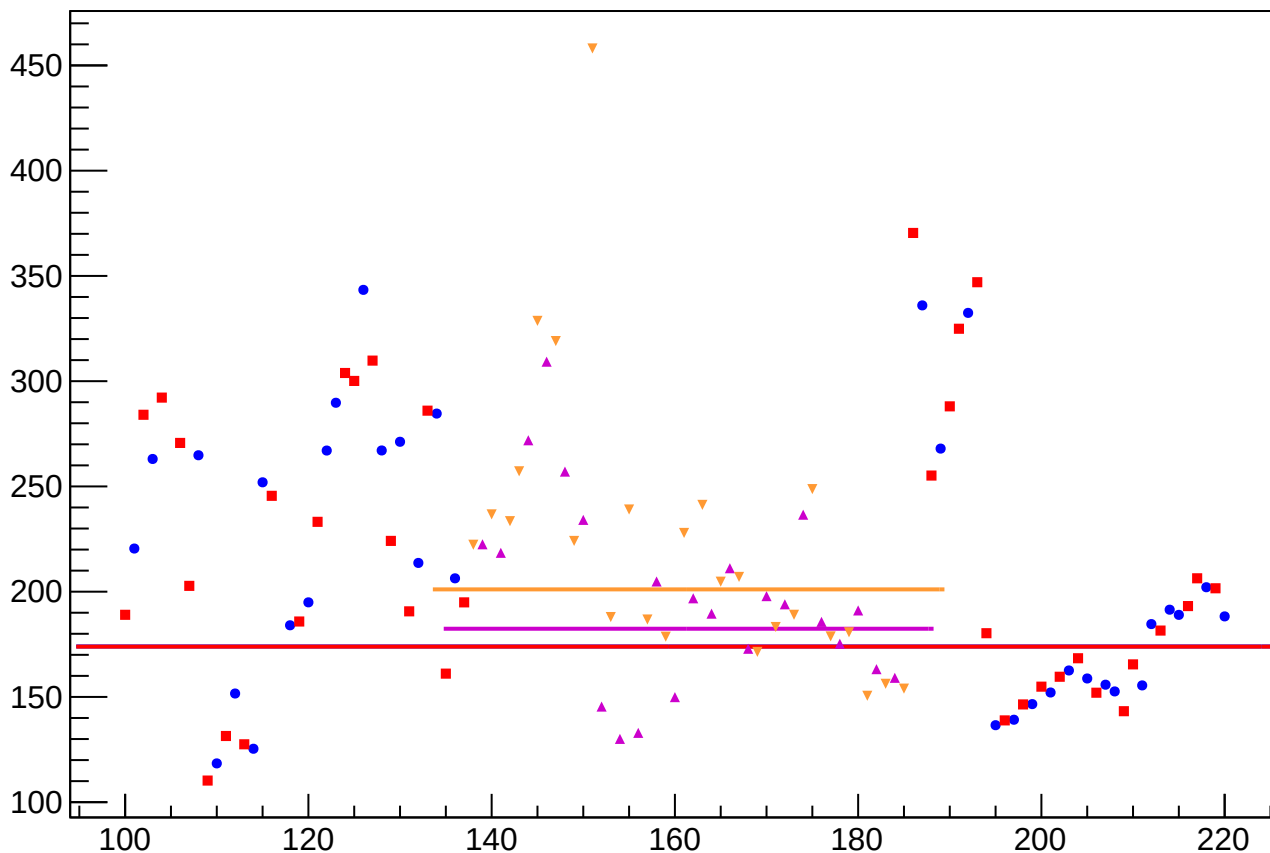
Right: -65.274 ± 29.313 $\chi^2/\text{NDF}: 34.5/70$

In: -15.362 ± 30.673 $\chi^2/\text{NDF}: 26.9/56$

Out: -33.635 ± 31.505 $\chi^2/\text{NDF}: 26.3/61$

All: -24.254 ± 21.977 $\chi^2/\text{NDF}: 53.3/118$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.981 $\pm$ 0.029 χ^2 /NDF: 2196823.4/33

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 173.897 $\pm$ 0.029 χ^2 /NDF: 2870249.6/36

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

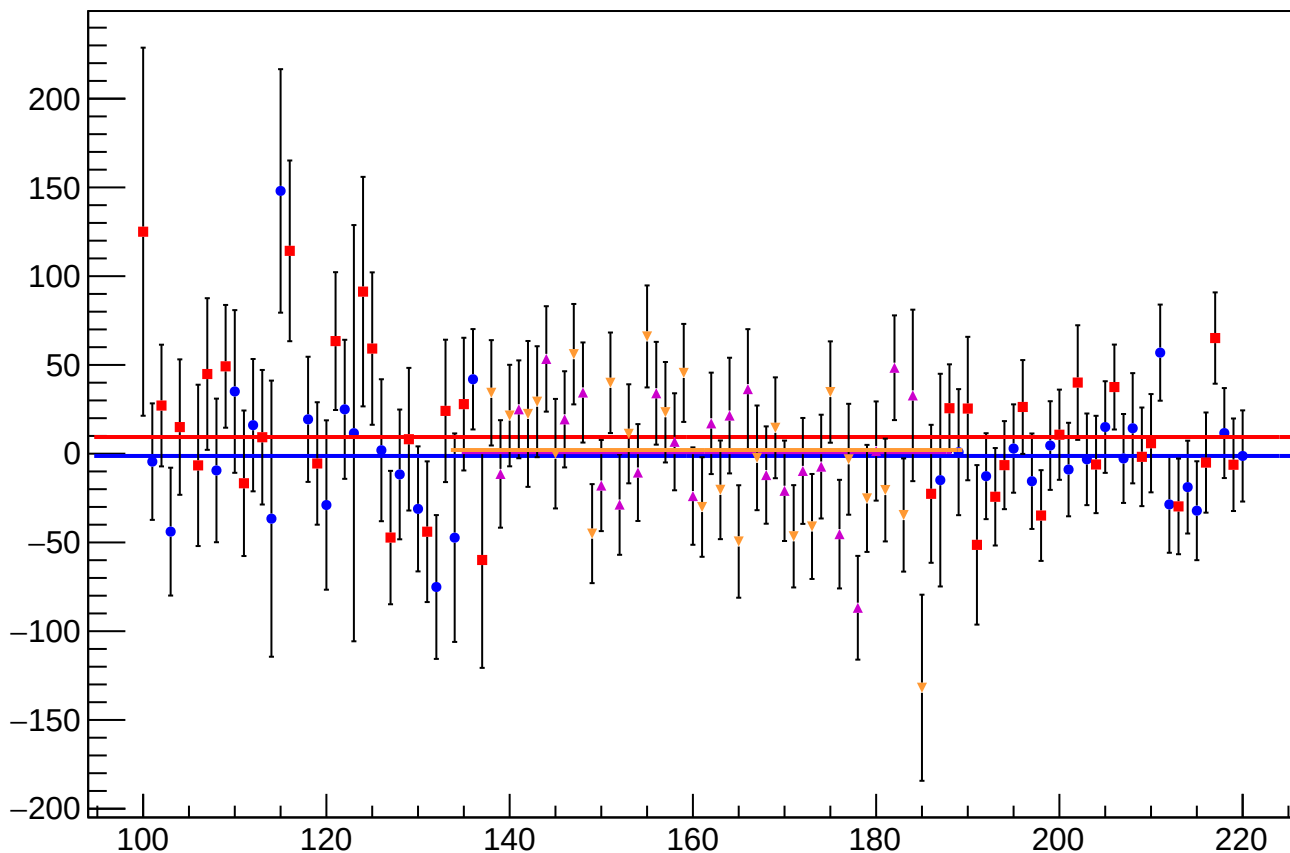
Right: 173.939 $\pm$ 0.021 χ^2 /NDF: 5067077.2/70

In: 177.794 $\pm$ 0.022 χ^2 /NDF:3783029.5/56

Out: 185.370 $\pm$ 0.022 χ^2 /NDF:4964766.7/61

All: 181.481 $\pm$ 0.016 χ^2 /NDF: 8807180.5/118

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.279 ± 5.491 $\chi^2/\text{NDF}: 24.4/33$

Left Out: 2.054 ± 5.970 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 9.391 ± 5.410 $\chi^2/\text{NDF}: 37.8/36$

Left In: 0.900 ± 6.069 $\chi^2/\text{NDF}: 27.1/22$

Left: 1.487 ± 4.256 $\chi^2/\text{NDF}: 66.5/47$

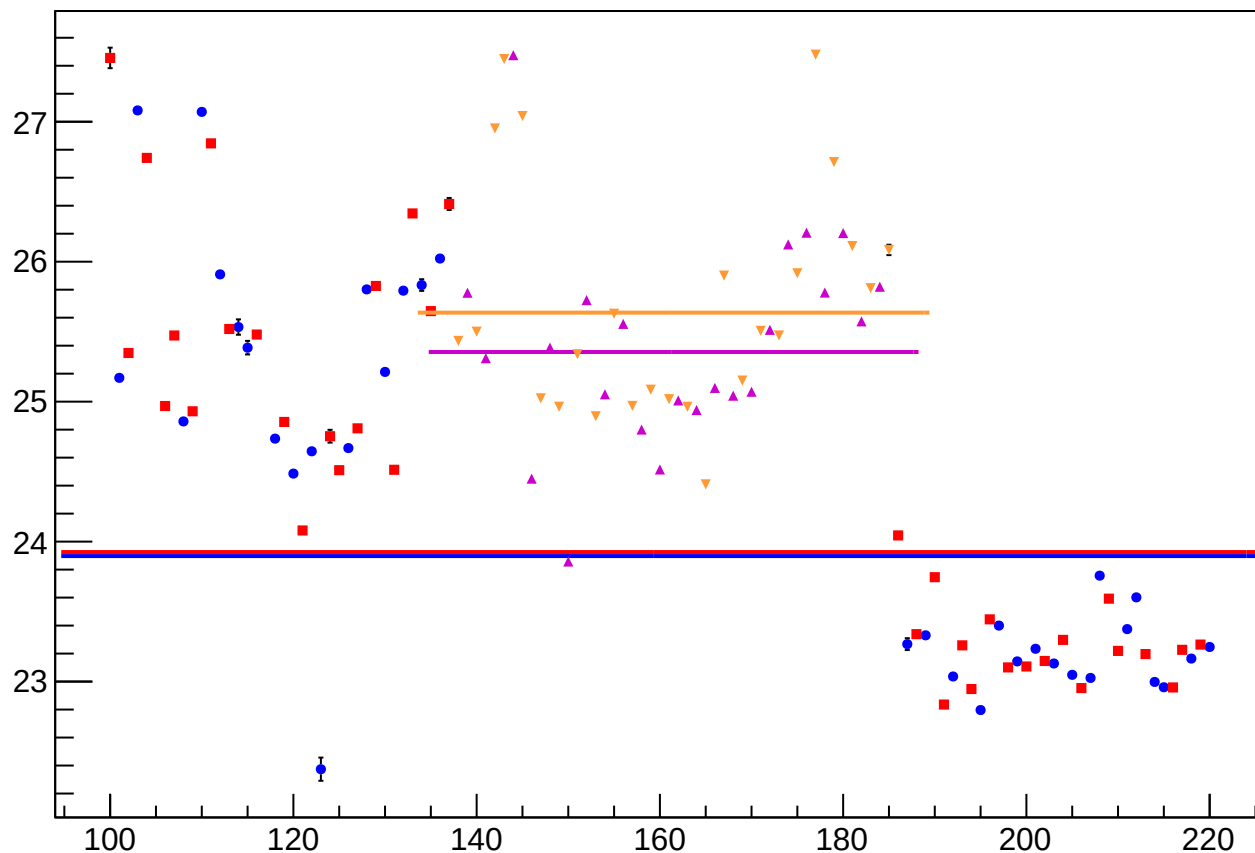
Right: 4.134 ± 3.854 $\chi^2/\text{NDF}: 64.1/70$

In: -0.298 ± 4.072 $\chi^2/\text{NDF}: 51.5/56$

Out: 6.083 ± 4.009 $\chi^2/\text{NDF}: 78.0/61$

All: 2.942 ± 2.857 $\chi^2/\text{NDF}: 130.8/118$

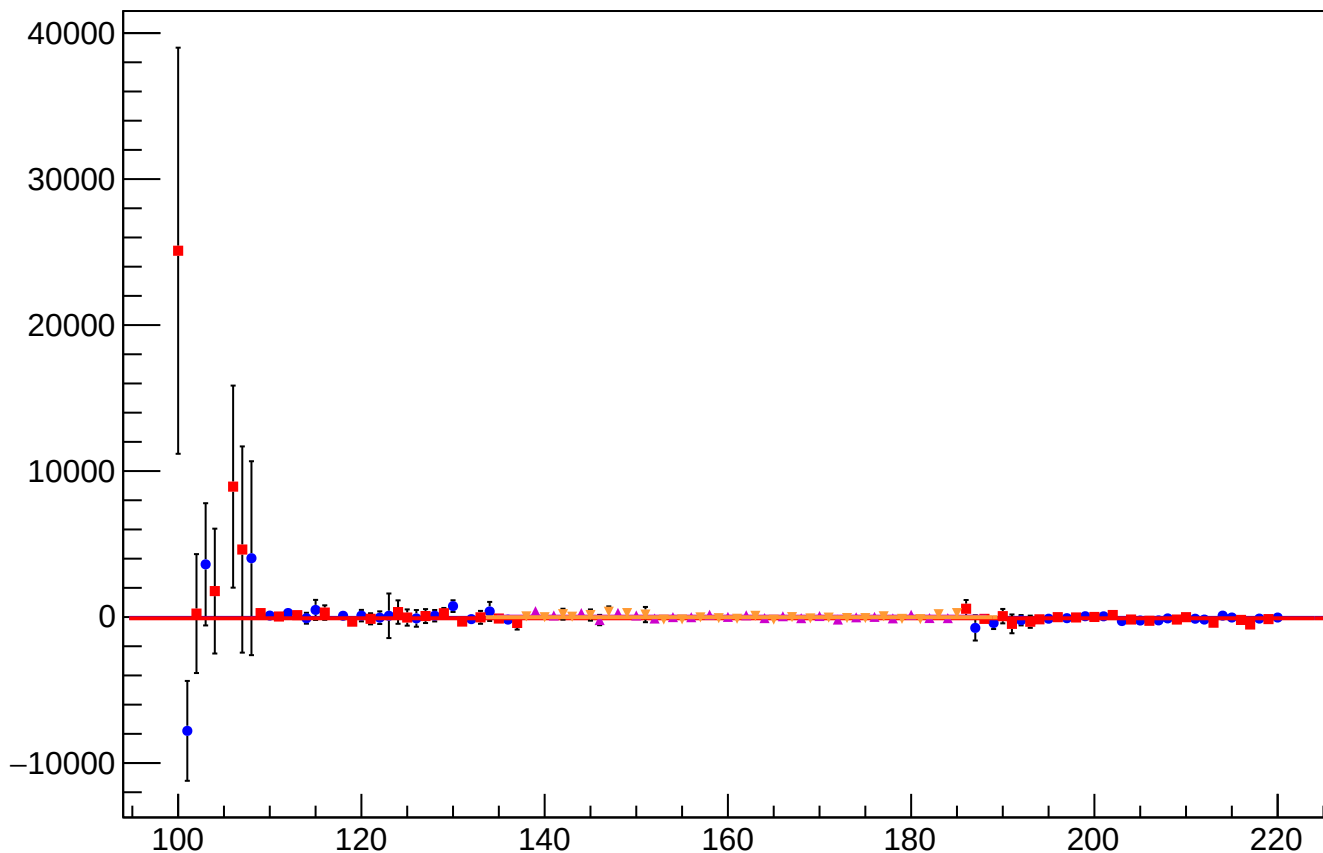
asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.897 ± 0.004 $\chi^2/\text{NDF}: 92238.4/33$
 Left Out: 25.636 ± 0.004 $\chi^2/\text{NDF}: 35130.7/24$
 Right Out: 23.925 ± 0.004 $\chi^2/\text{NDF}: 85800.7/36$
 Left In: 25.355 ± 0.004 $\chi^2/\text{NDF}: 29766.2/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 67081.3/47$
 Right: 23.911 ± 0.003 $\chi^2/\text{NDF}: 178066.9/70$
 In: 24.553 ± 0.003 $\chi^2/\text{NDF}: 185482.7/56$
 Out: 24.697 ± 0.003 $\chi^2/\text{NDF}: 211098.3/61$
 All: 24.626 ± 0.002 $\chi^2/\text{NDF}: 397850.0/118$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.980 $\pm$ 43.192 χ^2 /NDF: 22.0/33

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF:7.9/24

Right Out: -84.771 $\pm$ 43.767 χ^2 /NDF: 24.4/36

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

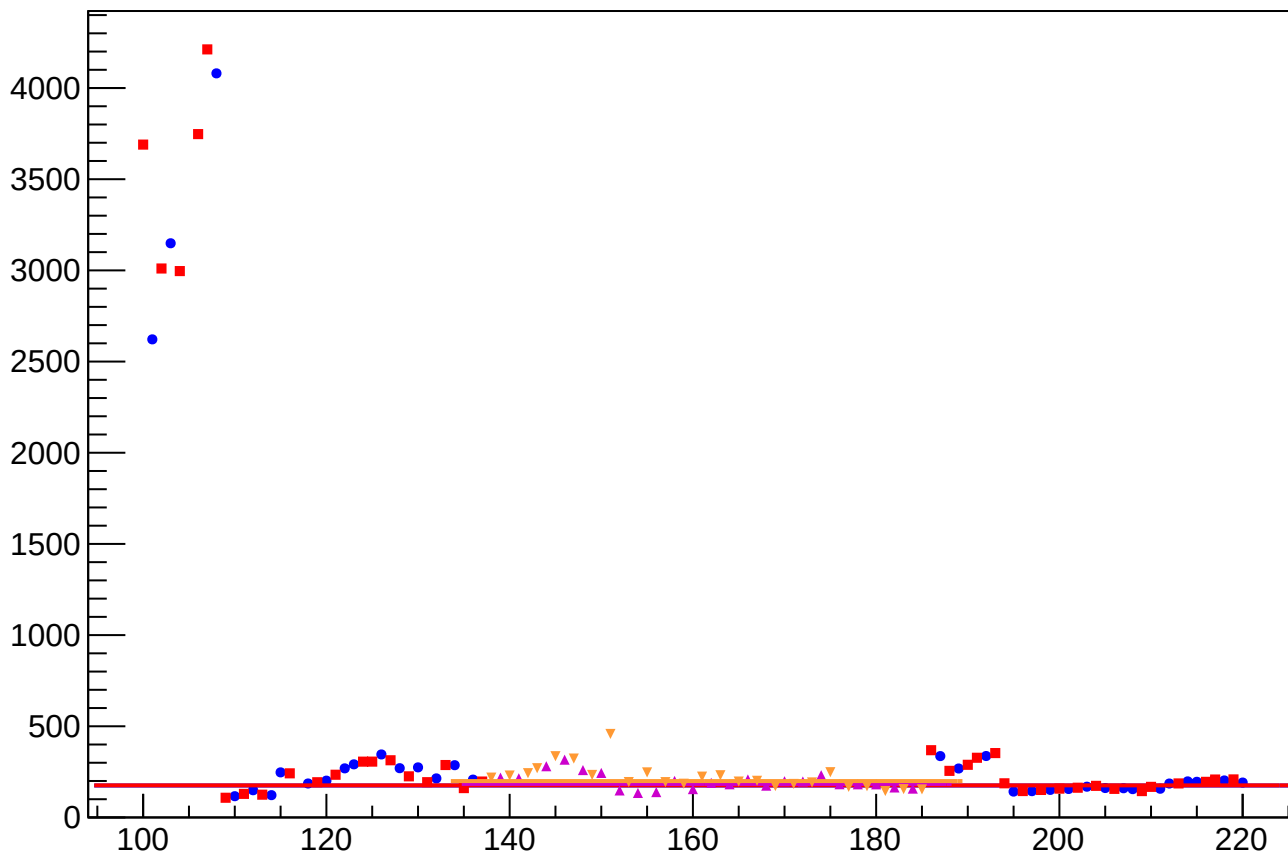
Right: -71.198 $\pm$ 30.743 χ^2 /NDF: 46.7/70

In: -18.125 $\pm$ 31.447 χ^2 /NDF:31.3/56

Out: -52.267 $\pm$ 32.407 χ^2 /NDF:33.5/61

All: -34.683 $\pm$ 22.568 χ^2 /NDF: 65.4/118

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.087+/-0.031 χ^2/NDF : 4610215.5/33

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 175.958+/-0.031 χ^2/NDF : 5501459.4/36

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

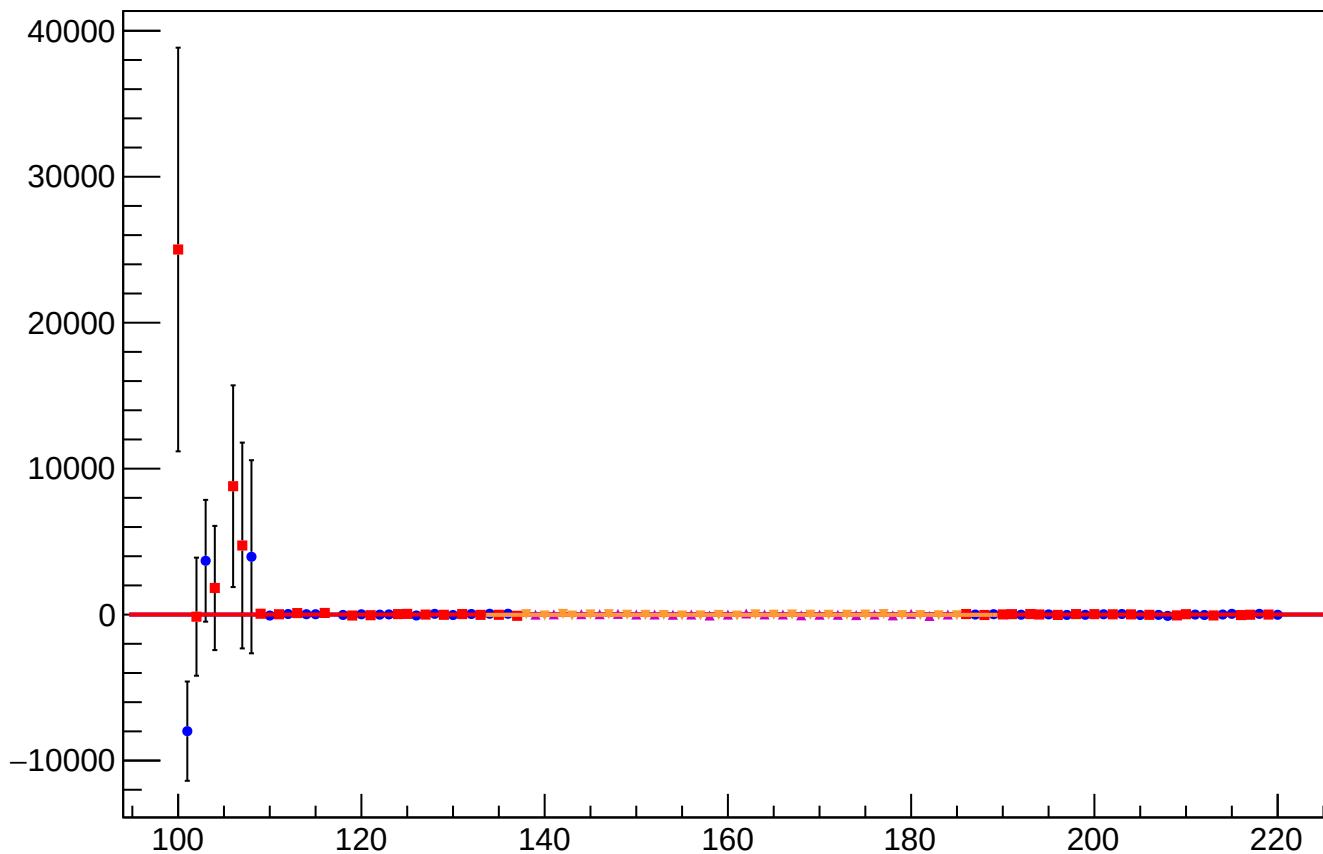
Right: 175.517+/-0.022 χ^2/NDF : 10112076.4/70

In: 179.290+/-0.022 χ^2/NDF :6073974.1/56

Out: 186.609+/-0.023 χ^2/NDF :7644198.4/61

All: 182.840+/-0.016 χ^2/NDF : 13770715.5/13

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.484+/-6.575 χ^2/NDF : 36.6/33

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 3.158+/-6.587 χ^2/NDF : 39.9/36

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

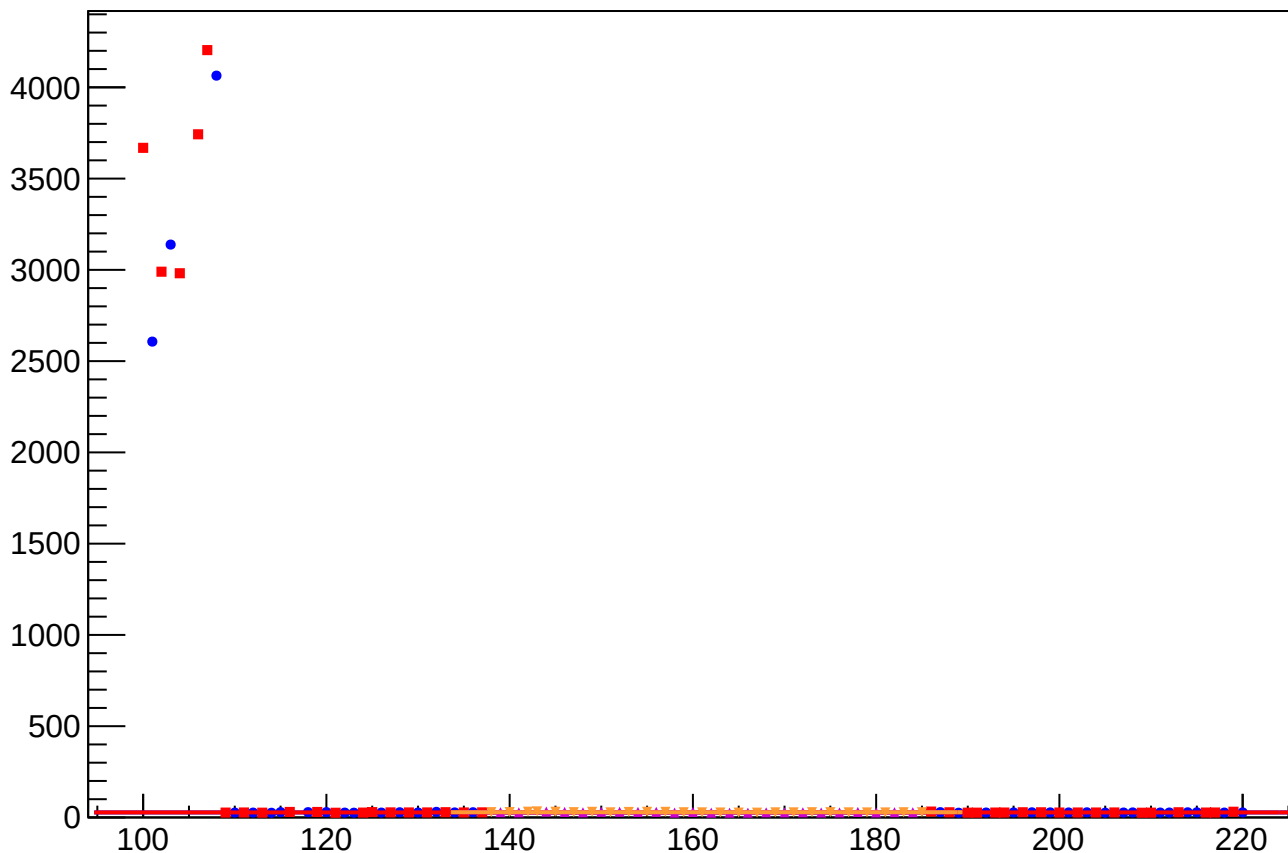
Right: 3.321+/-4.653 χ^2/NDF : 76.5/70

In: 2.316+/-4.753 χ^2/NDF : 69.0/56

Out: -7.044+/-4.695 χ^2/NDF : 67.1/61

All: -2.422+/-3.340 χ^2/NDF : 138.1/118

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.470+/-0.005 χ^2/NDF : 3045900.5/33

Left Out: 28.691+/-0.005 χ^2/NDF :110483.8/24

Right Out: 27.563+/-0.005 χ^2/NDF : 3537879.1/36

Left In: 28.673+/-0.005 χ^2/NDF :124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

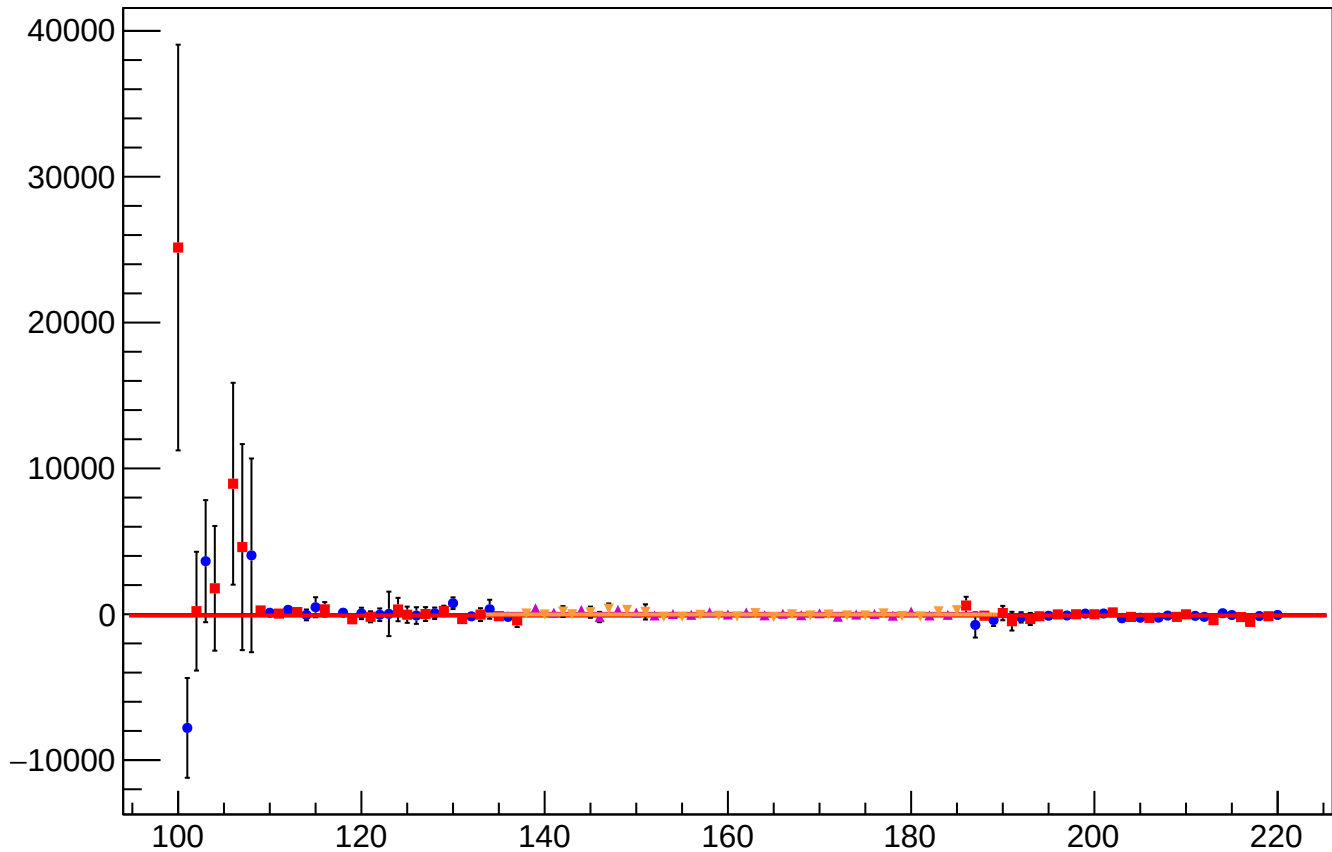
Right: 27.516+/-0.003 χ^2/NDF : 6583979.6/70

In: 28.044+/-0.003 χ^2/NDF :3202615.3/56

Out: 28.118+/-0.003 χ^2/NDF :3677220.9/61

All: 28.081+/-0.002 χ^2/NDF : 6880080.1/118

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.381 ± 43.059 $\chi^2/\text{NDF}: 22.2/33$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -87.186 ± 43.641 $\chi^2/\text{NDF}: 25.5/36$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

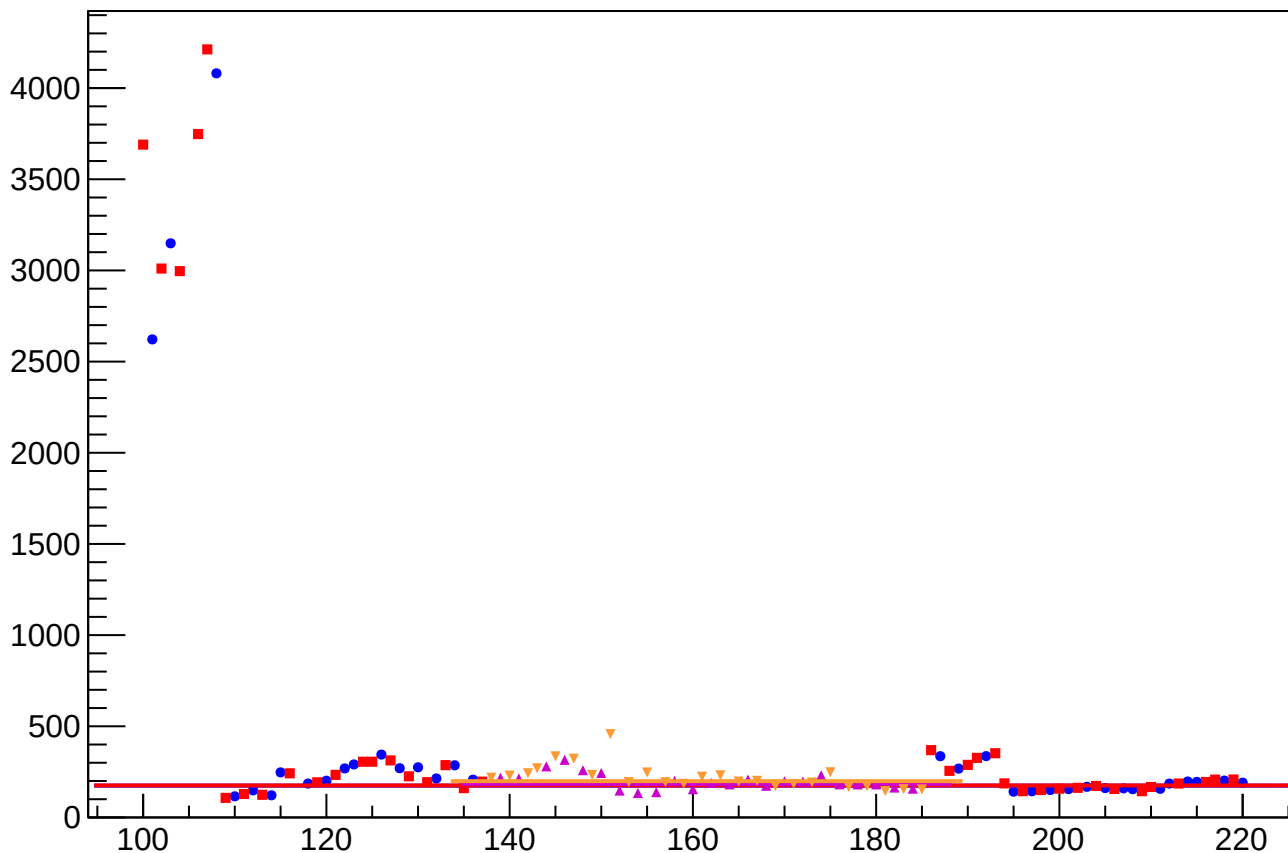
Right: -73.097 ± 30.651 $\chi^2/\text{NDF}: 47.9/70$

In: -18.833 ± 31.367 $\chi^2/\text{NDF}: 31.9/56$

Out: -54.818 ± 32.323 $\chi^2/\text{NDF}: 35.4/61$

All: -36.285 ± 22.510 $\chi^2/\text{NDF}: 67.9/118$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.513 $\pm$ 0.030 χ^2 /NDF: 4623671.2/33

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 175.401 $\pm$ 0.031 χ^2 /NDF: 5519608.0/36

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

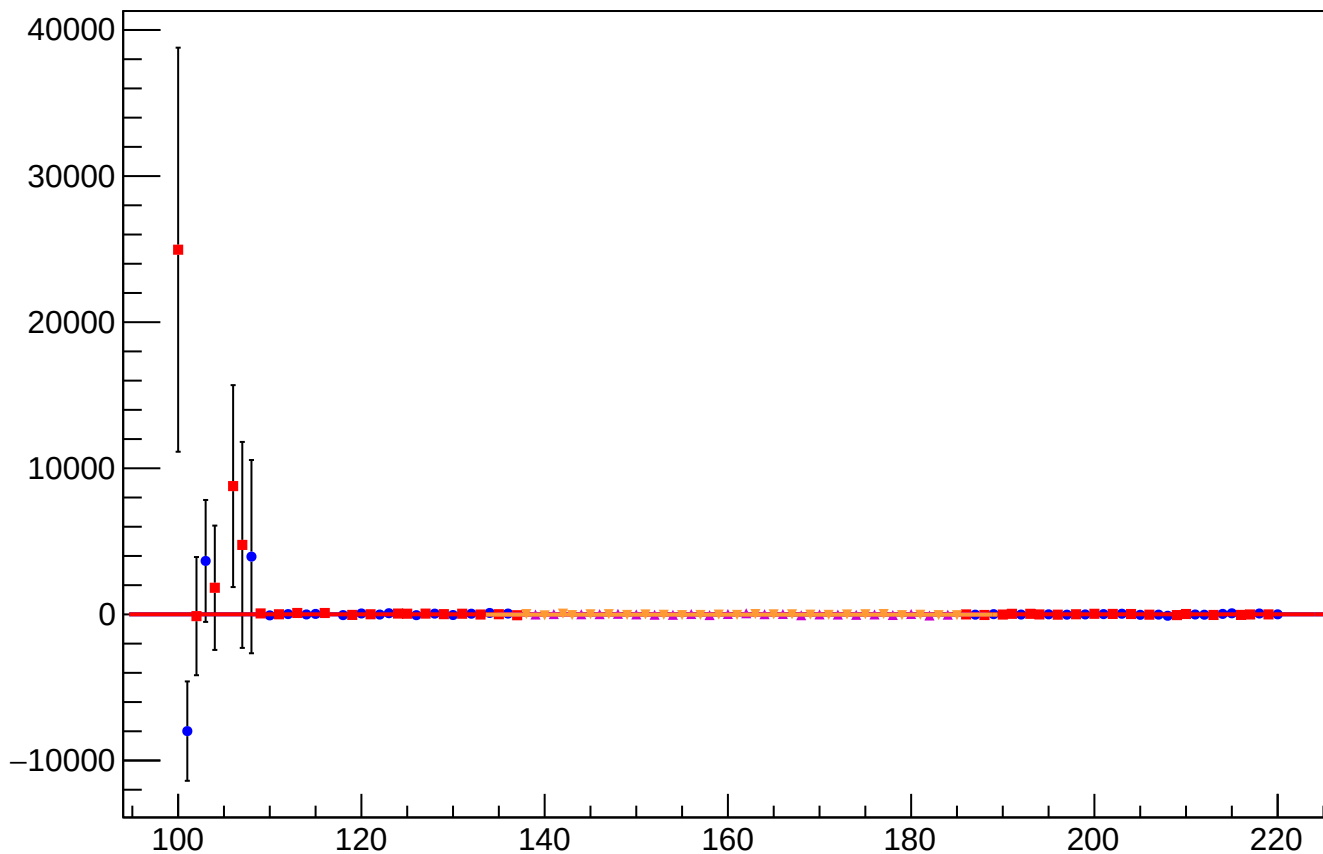
Right: 174.951 $\pm$ 0.022 χ^2 /NDF: 10143699.0/70

In: 178.809 $\pm$ 0.022 χ^2 /NDF:6088995.4/56

Out: 186.096 $\pm$ 0.023 χ^2 /NDF:7666056.9/61

All: 182.344 $\pm$ 0.016 χ^2 /NDF: 13807401.0/13

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.048 $\pm$ 6.529 χ^2 /NDF: 45.1/33

Left Out: -15.006 $\pm$ 6.723 χ^2 /NDF:17.5/24

Right Out: 6.231 $\pm$ 6.551 χ^2 /NDF: 34.9/36

Left In: -0.702 $\pm$ 6.909 χ^2 /NDF:26.4/22

Left: -8.049 $\pm$ 4.819 χ^2 /NDF: 46.0/47

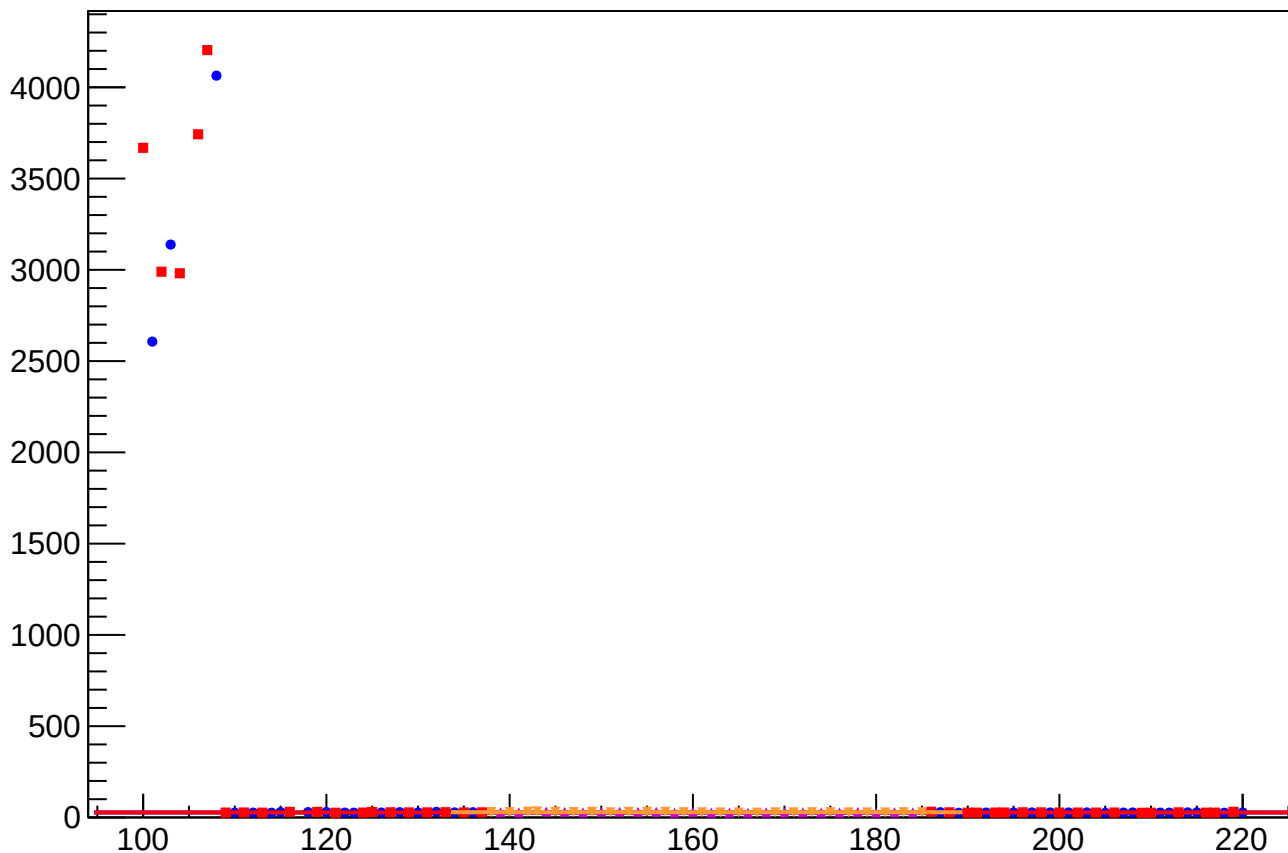
Right: 5.637 $\pm$ 4.624 χ^2 /NDF: 80.0/70

In: 2.335 $\pm$ 4.745 χ^2 /NDF:71.8/56

Out: -4.112 $\pm$ 4.692 χ^2 /NDF:57.5/61

All: -0.925 $\pm$ 3.336 χ^2 /NDF: 130.2/118

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.272 $\pm$ 0.005 χ^2 /NDF: 3056507.4/33

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.411 $\pm$ 0.005 χ^2 /NDF: 3541418.1/36

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

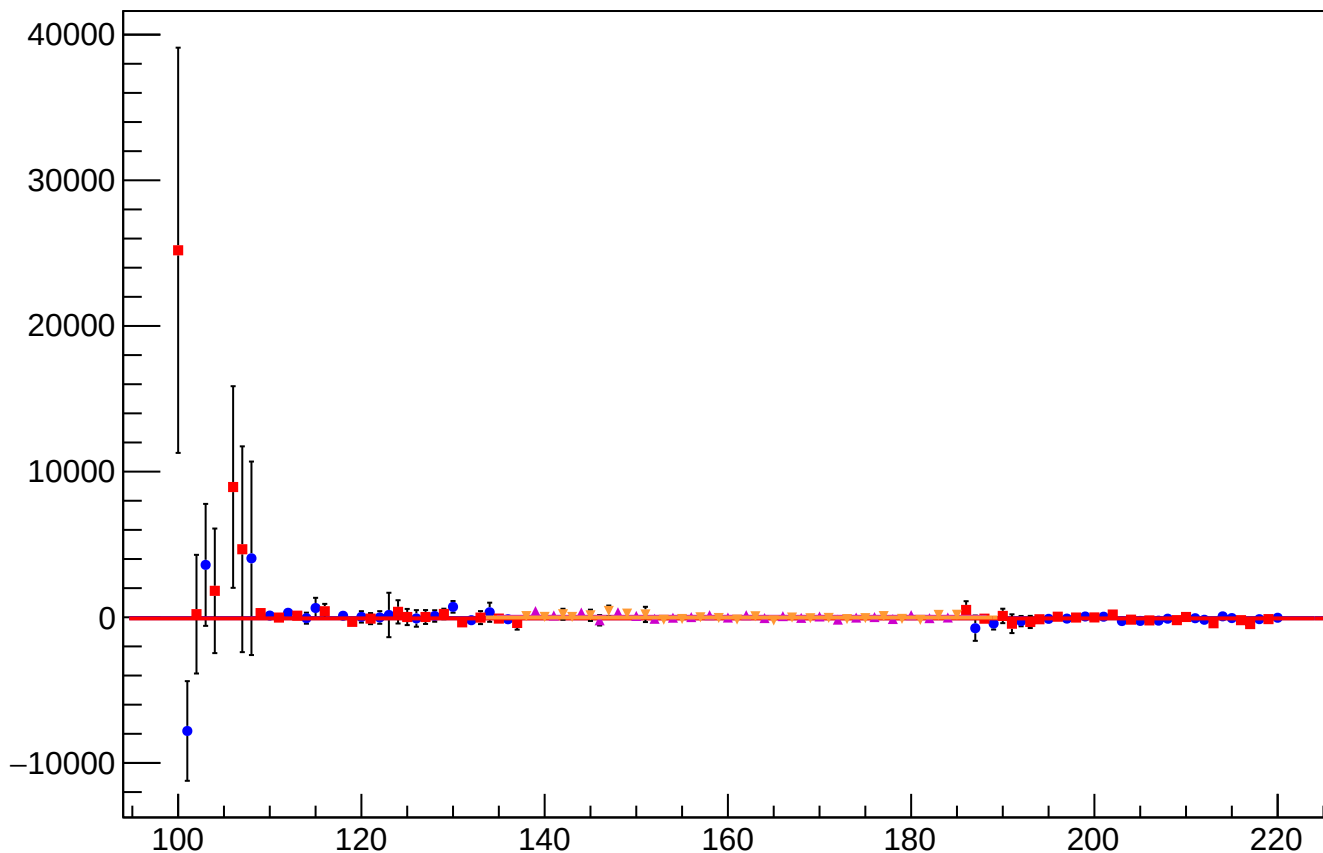
Right: 27.341 $\pm$ 0.003 χ^2 /NDF: 6598375.6/70

In: 27.989 $\pm$ 0.003 χ^2 /NDF: 3237076.1/56

Out: 28.093 $\pm$ 0.003 χ^2 /NDF: 3708008.4/61

All: 28.042 $\pm$ 0.002 χ^2 /NDF: 6945573.0/118

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.203+/-43.350 χ^2/NDF : 22.3/33

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -78.528+/-43.957 χ^2/NDF : 24.3/36

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

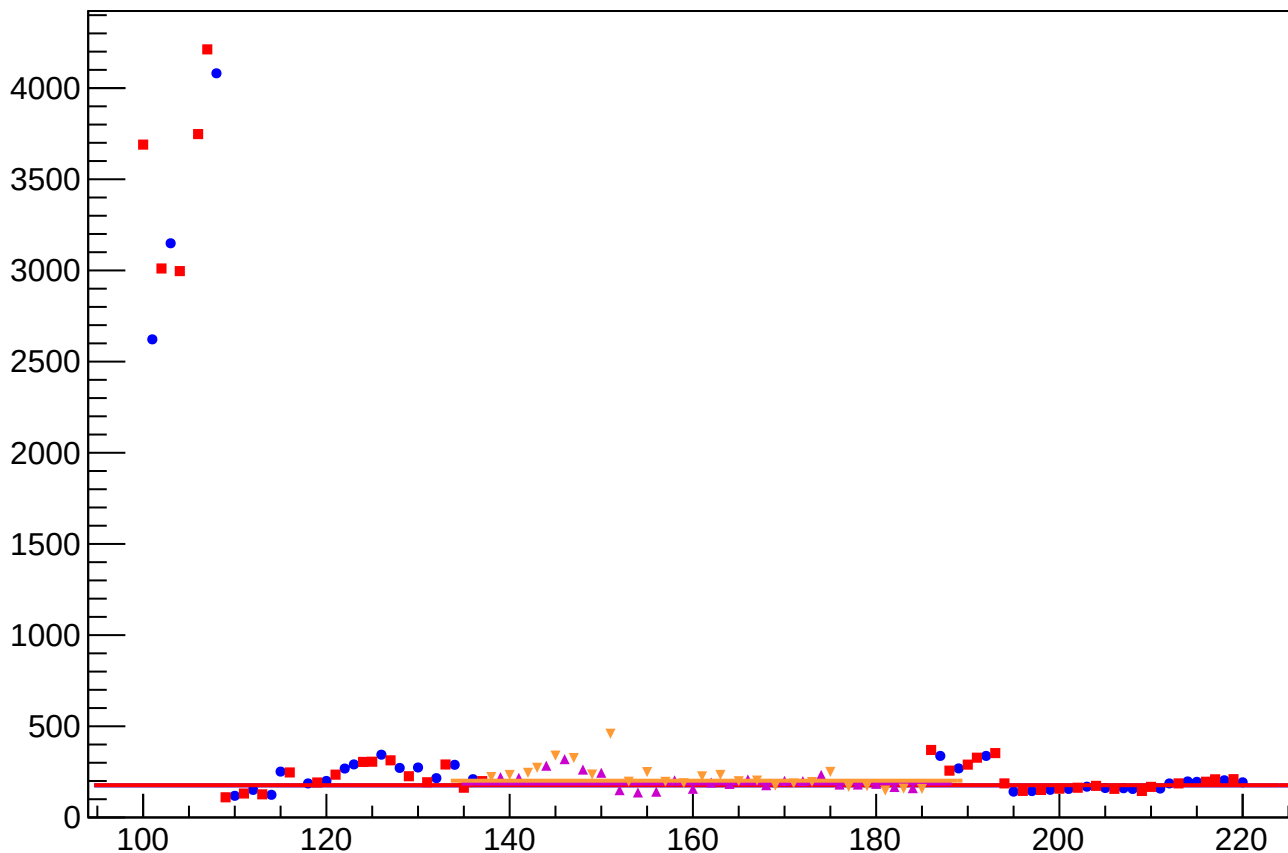
Right: -68.224+/-30.865 χ^2/NDF : 46.8/70

In: -16.511+/-31.663 χ^2/NDF : 32.5/56

Out: -50.246+/-32.627 χ^2/NDF : 33.2/61

All: -32.873+/-22.722 χ^2/NDF : 66.3/118

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.781+/-0.031 χ^2/NDF : 4589297.6/33

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 176.850+/-0.031 χ^2/NDF : 5459461.5/36

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

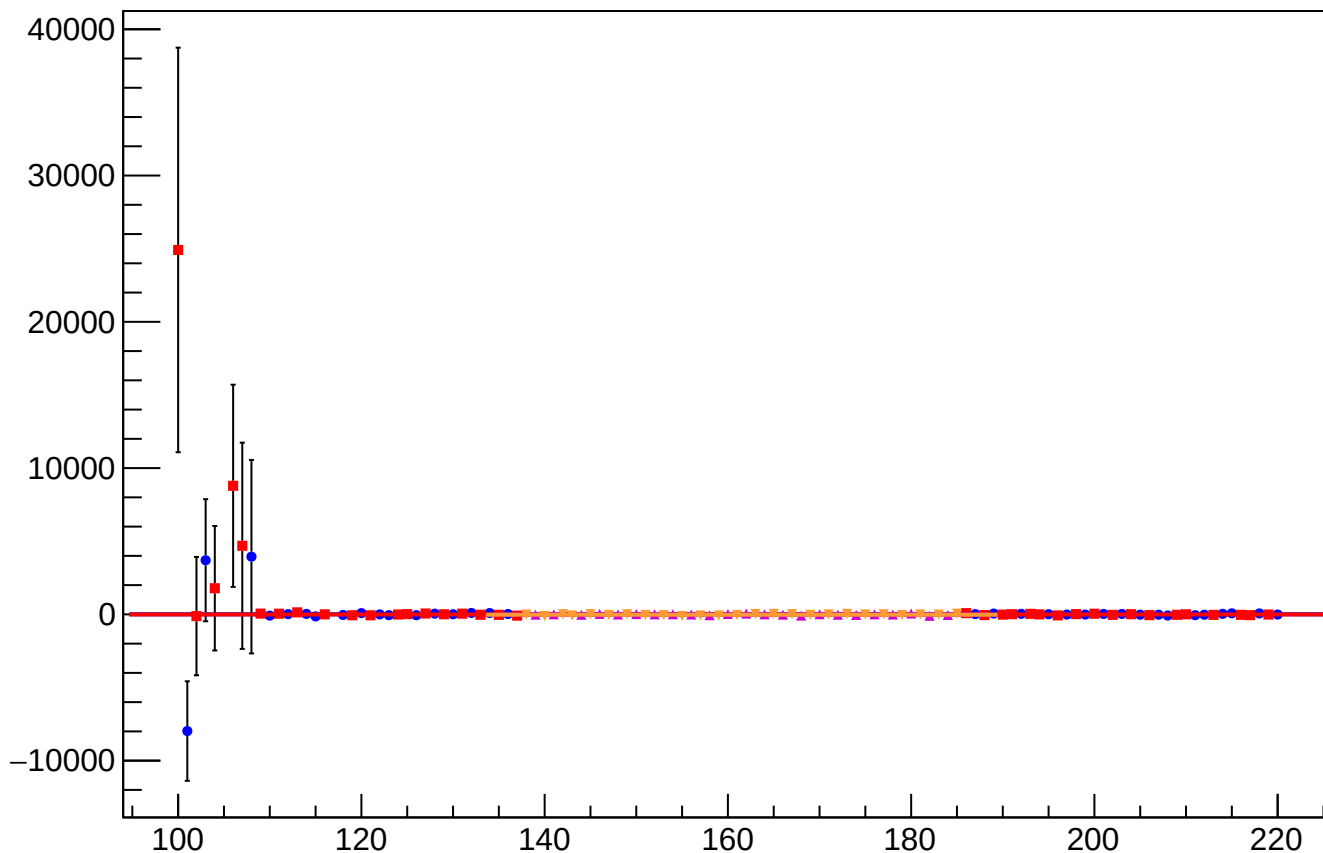
Right: 176.308+/-0.022 χ^2/NDF : 10049359.1/70

In: 180.598+/-0.022 χ^2/NDF : 6033560.1/56

Out: 187.965+/-0.023 χ^2/NDF : 7601639.5/61

All: 184.171+/-0.016 χ^2/NDF : 13687703.4/11

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.279 ± 7.961 $\chi^2/\text{NDF}: 38.2/33$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -6.542 ± 7.979 $\chi^2/\text{NDF}: 38.1/36$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

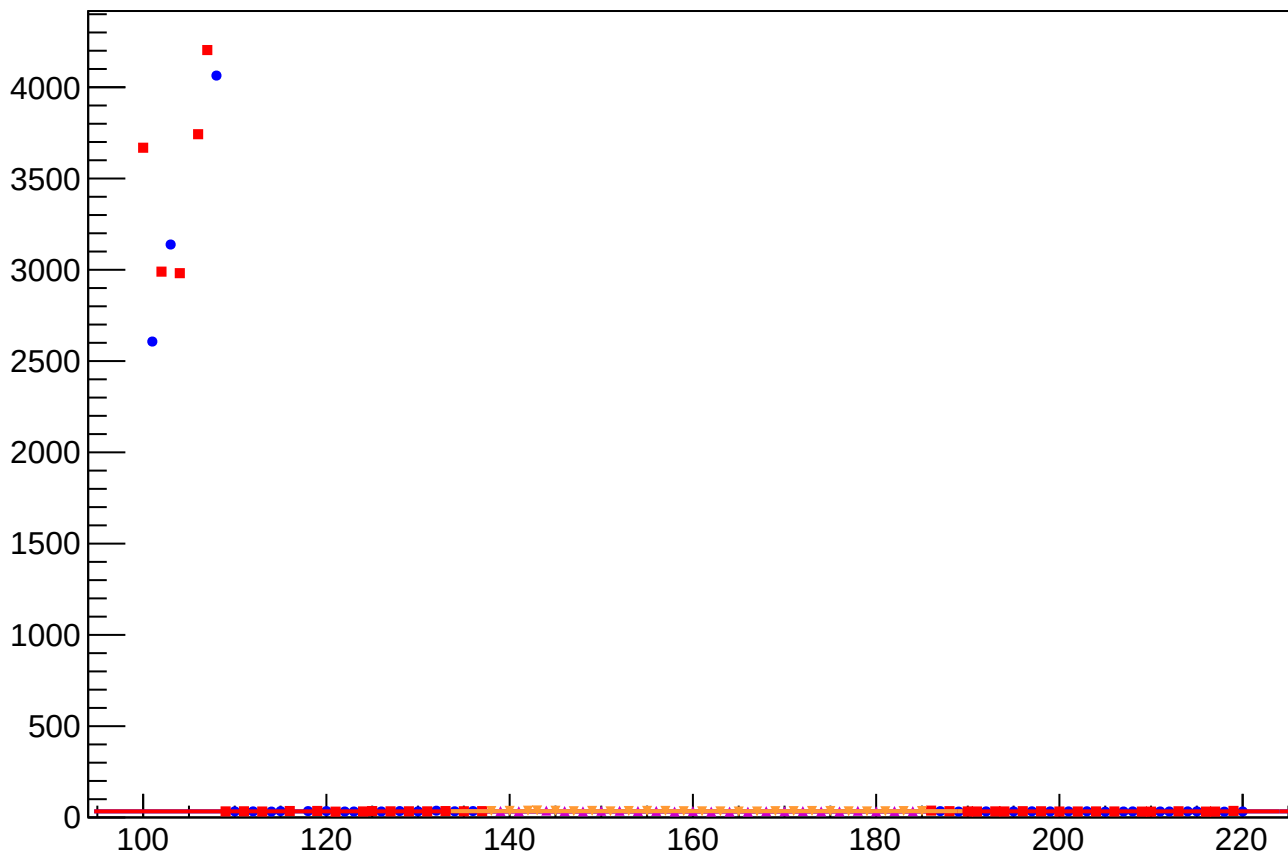
Right: -0.117 ± 5.636 $\chi^2/\text{NDF}: 77.6/70$

In: 0.401 ± 5.748 $\chi^2/\text{NDF}: 60.5/56$

Out: -14.862 ± 5.672 $\chi^2/\text{NDF}: 66.1/61$

All: -7.332 ± 4.037 $\chi^2/\text{NDF}: 130.2/118$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.279+/-0.006 χ^2 /NDF: 3025168.0/33

Left Out: 34.614+/-0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.439+/-0.006 χ^2 /NDF: 3485640.8/36

Left In: 34.685+/-0.006 χ^2 /NDF: 60315.2/22

Left: 34.649+/-0.004 χ^2 /NDF: 118335.7/47

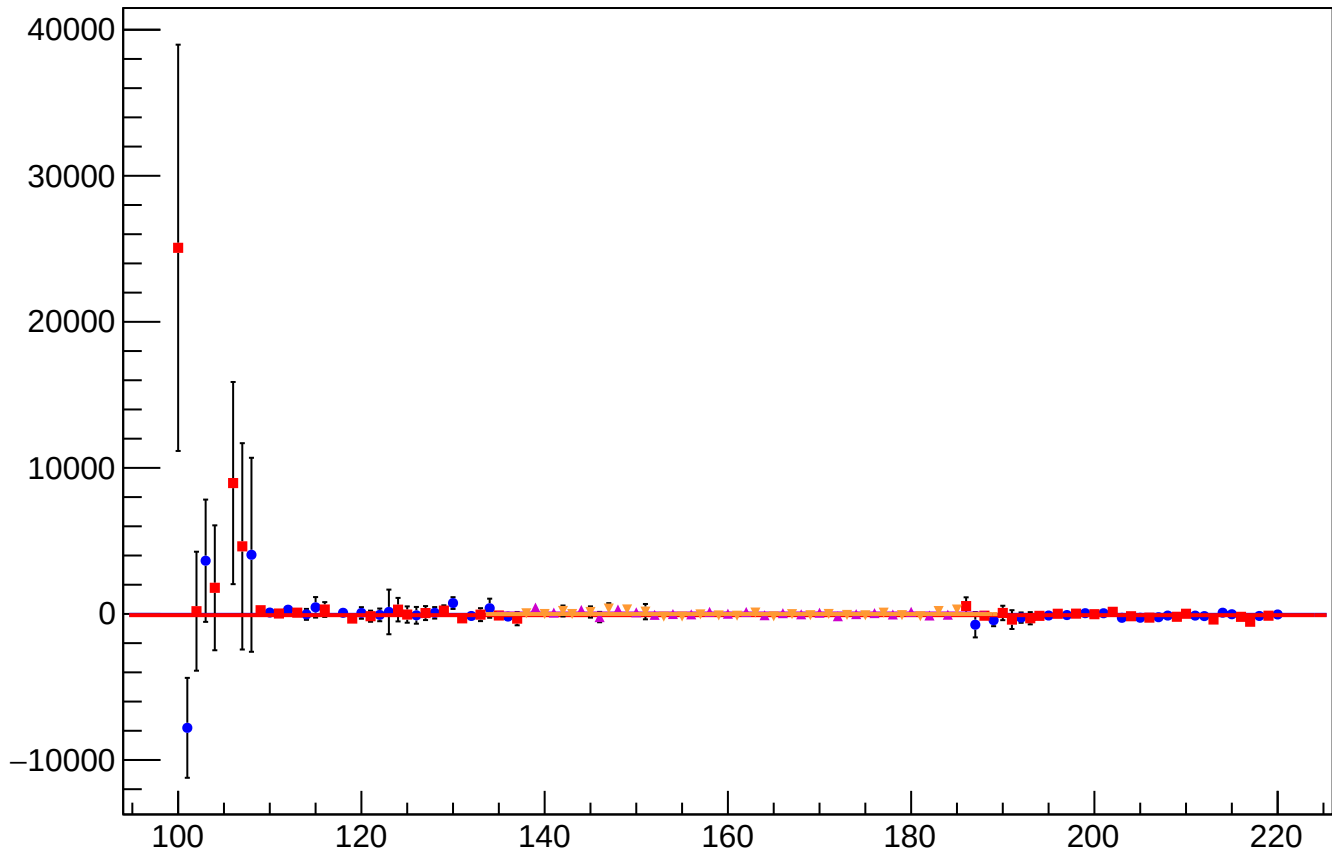
Right: 33.359+/-0.004 χ^2 /NDF: 6511214.0/70

In: 33.952+/-0.004 χ^2 /NDF: 3115348.9/56

Out: 34.021+/-0.004 χ^2 /NDF: 3565044.3/61

All: 33.987+/-0.003 χ^2 /NDF: 6680537.8/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.300 ± 43.227 χ^2/NDF : 22.1/33

Left Out: -8.916 ± 48.615 χ^2/NDF : 8.6/24

Right Out: -84.262 ± 43.800 χ^2/NDF : 23.6/36

Left In: 34.127 ± 46.296 χ^2/NDF : 7.4/22

Left: 13.656 ± 33.526 χ^2/NDF : 16.5/47

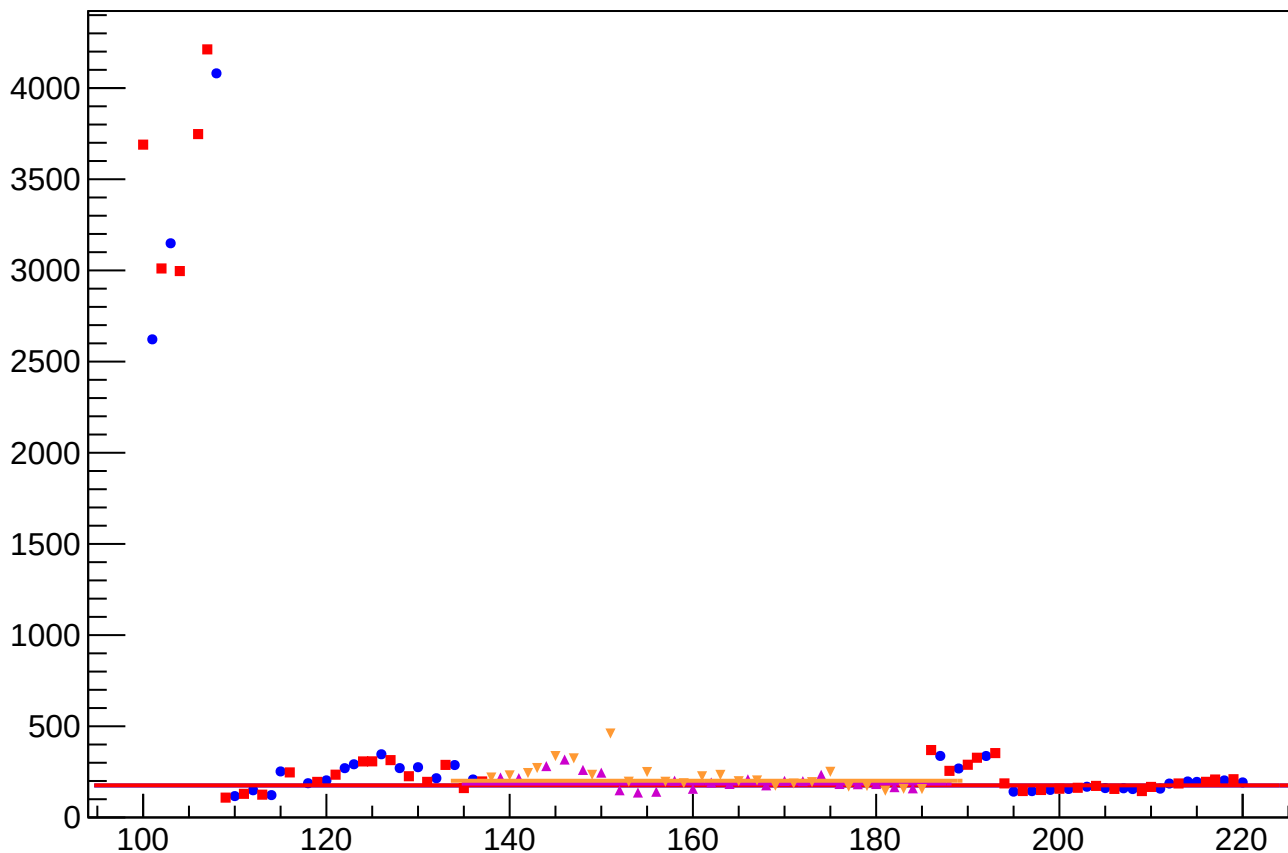
Right: -72.630 ± 30.767 χ^2/NDF : 45.8/70

In: -16.854 ± 31.596 χ^2/NDF : 31.8/56

Out: -50.504 ± 32.541 χ^2/NDF : 33.5/61

All: -33.183 ± 22.668 χ^2/NDF : 65.9/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.211 $\pm$ 0.031 χ^2 /NDF: 4619500.9/33

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF: 1851134.1/24

Right Out: 176.080 $\pm$ 0.031 χ^2 /NDF: 5509417.2/36

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF: 1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

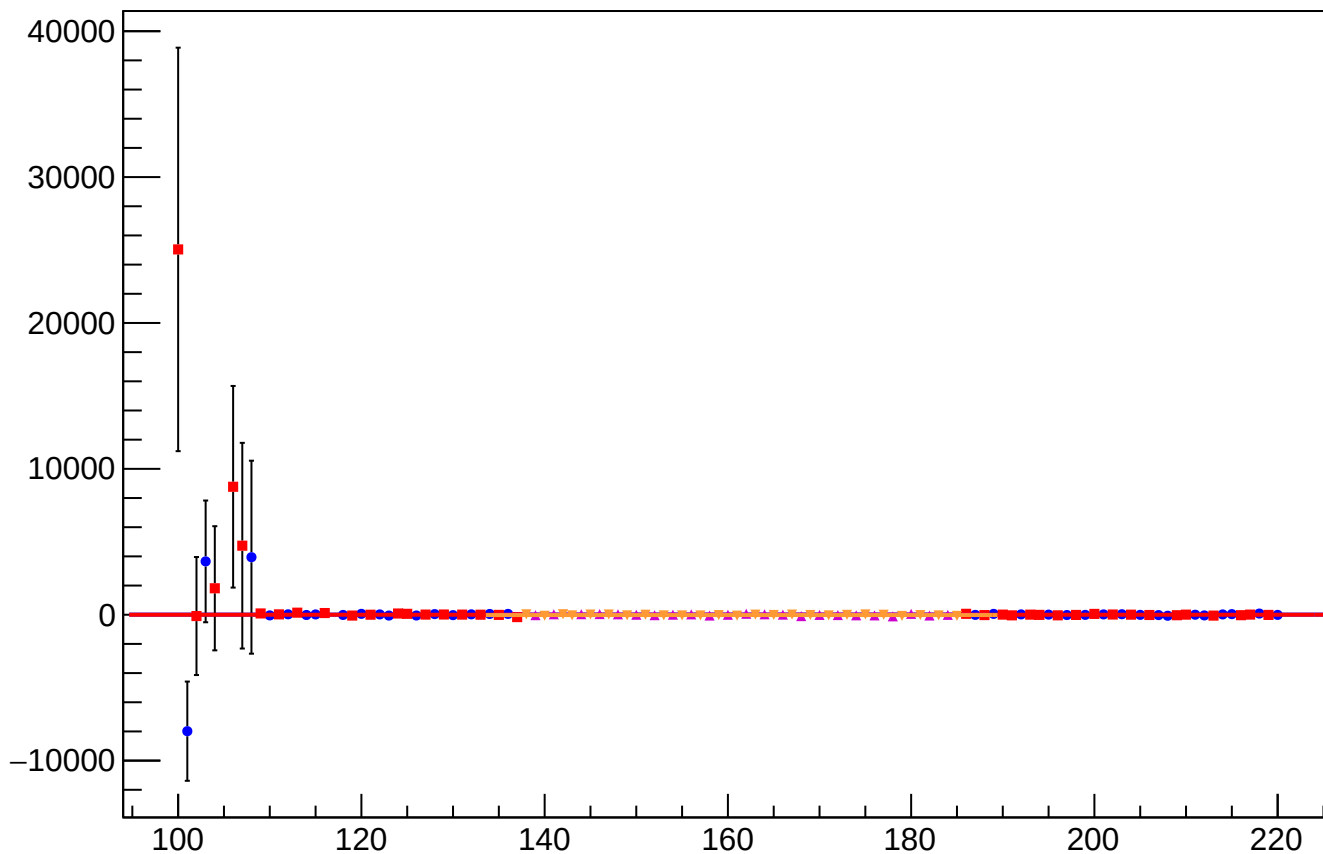
Right: 175.639 $\pm$ 0.022 χ^2 /NDF: 10129316.7/70

In: 180.168 $\pm$ 0.022 χ^2 /NDF: 6057741.4/56

Out: 187.378 $\pm$ 0.023 χ^2 /NDF: 7657565.1/61

All: 183.667 $\pm$ 0.016 χ^2 /NDF: 13765843.4/131

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.943+/-7.199 χ^2/NDF : 32.3/33

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 0.398+/-7.220 χ^2/NDF : 42.9/36

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

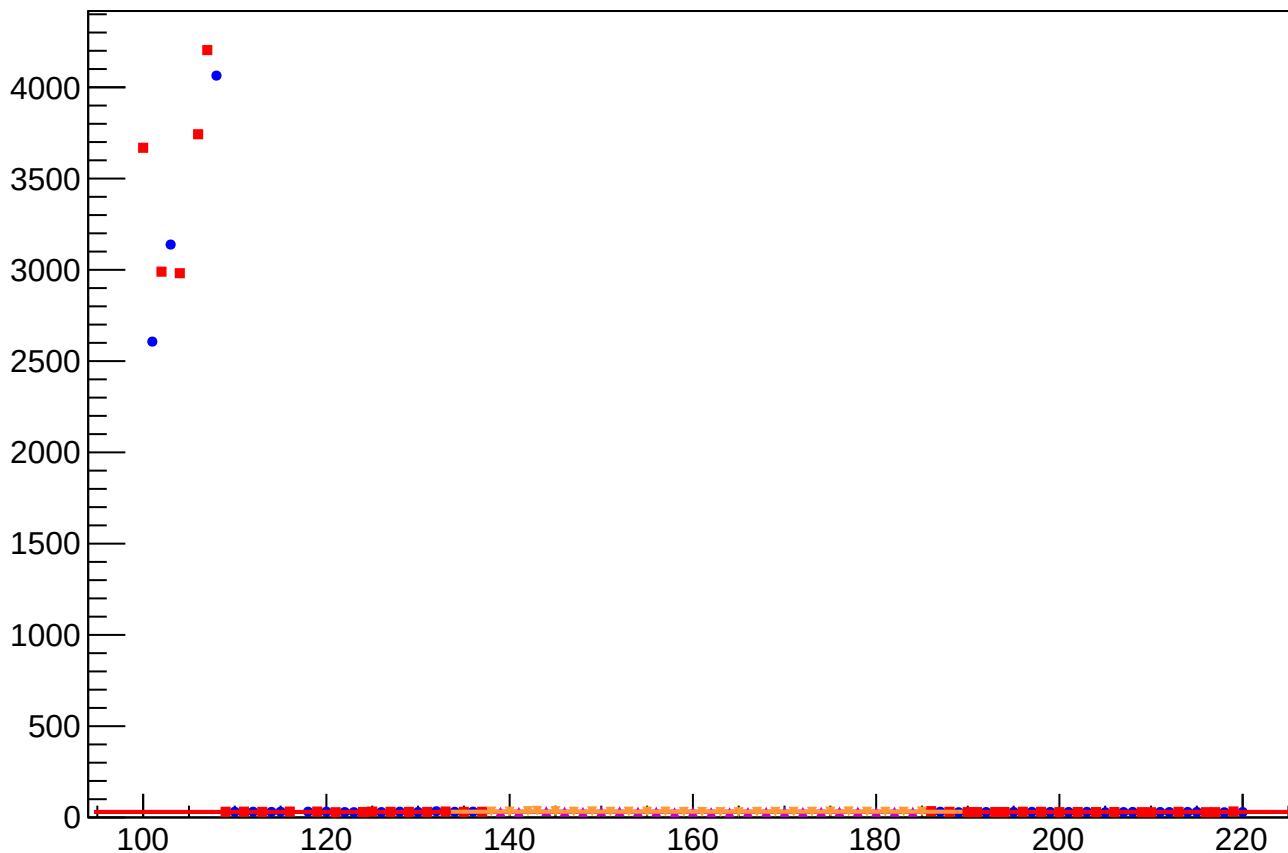
Right: 4.181+/-5.098 χ^2/NDF : 75.8/70

In: 1.329+/-5.210 χ^2/NDF :72.4/56

Out: -11.048+/-5.147 χ^2/NDF :66.8/61

All: -4.934+/-3.662 χ^2/NDF : 142.1/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.083+/-0.005 χ^2/NDF : 3045355.2/33

Left Out: 31.482+/-0.005 χ^2/NDF :82437.2/24

Right Out: 30.231+/-0.005 χ^2/NDF : 3508630.3/36

Left In: 31.484+/-0.005 χ^2/NDF :87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

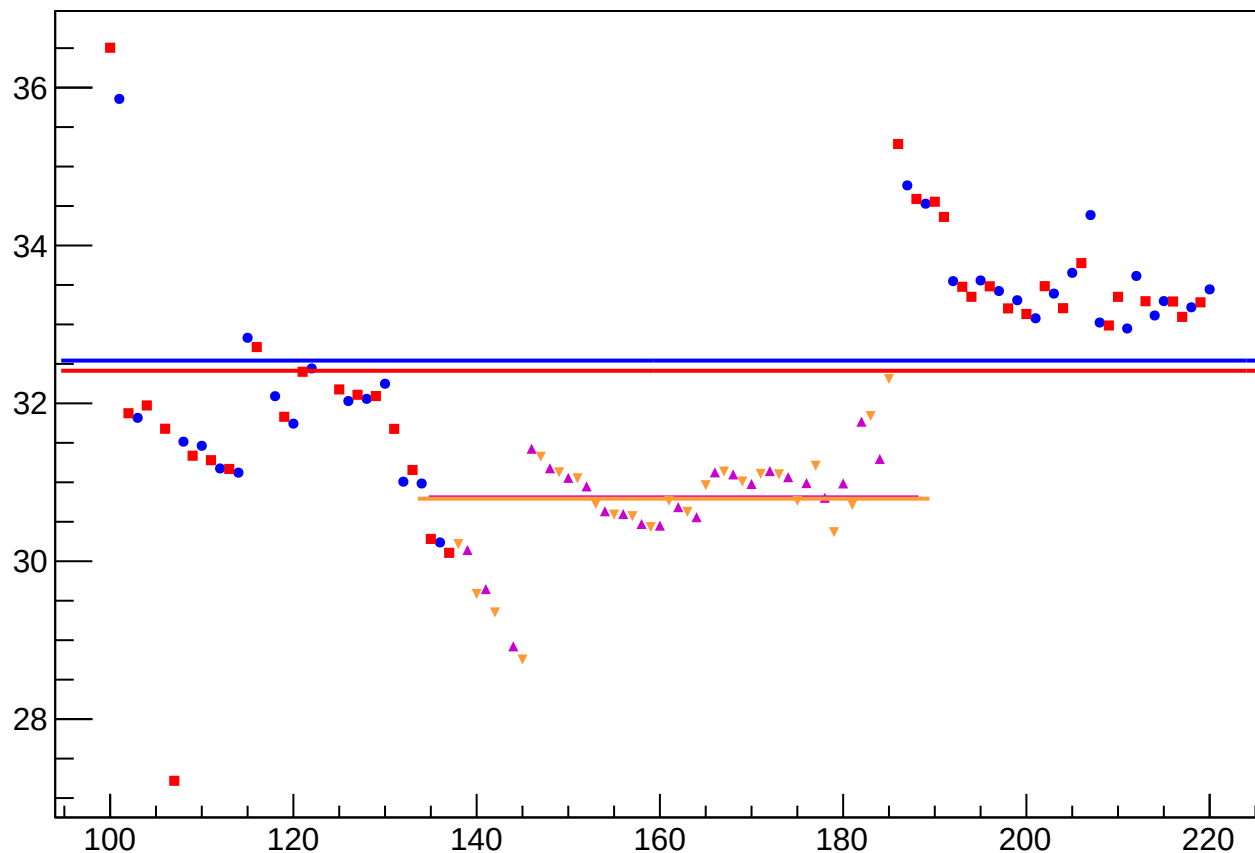
Right: 30.156+/-0.004 χ^2/NDF : 6554405.5/70

In: 30.750+/-0.004 χ^2/NDF :3169441.4/56

Out: 30.846+/-0.004 χ^2/NDF :3620603.6/61

All: 30.799+/-0.003 χ^2/NDF : 6790384.8/118

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.542 $\pm$ 0.000

χ^2 /NDF: 3160924237.3/32

Left: 30.801 $\pm$ 0.000

χ^2 /NDF: 1829591088.1/46

Left Out: 30.793 $\pm$ 0.000

χ^2 /NDF: 1007261340.7/23

Right: 32.480 $\pm$ 0.000

χ^2 /NDF: 5898470520.6/68

Right Out: 32.413 $\pm$ 0.000

χ^2 /NDF: 2719568705.6/35

In: 31.599 $\pm$ 0.000

χ^2 /NDF: 7630163573.0/55

Out: 31.491 $\pm$ 0.000

χ^2 /NDF: 6851502335.2/59

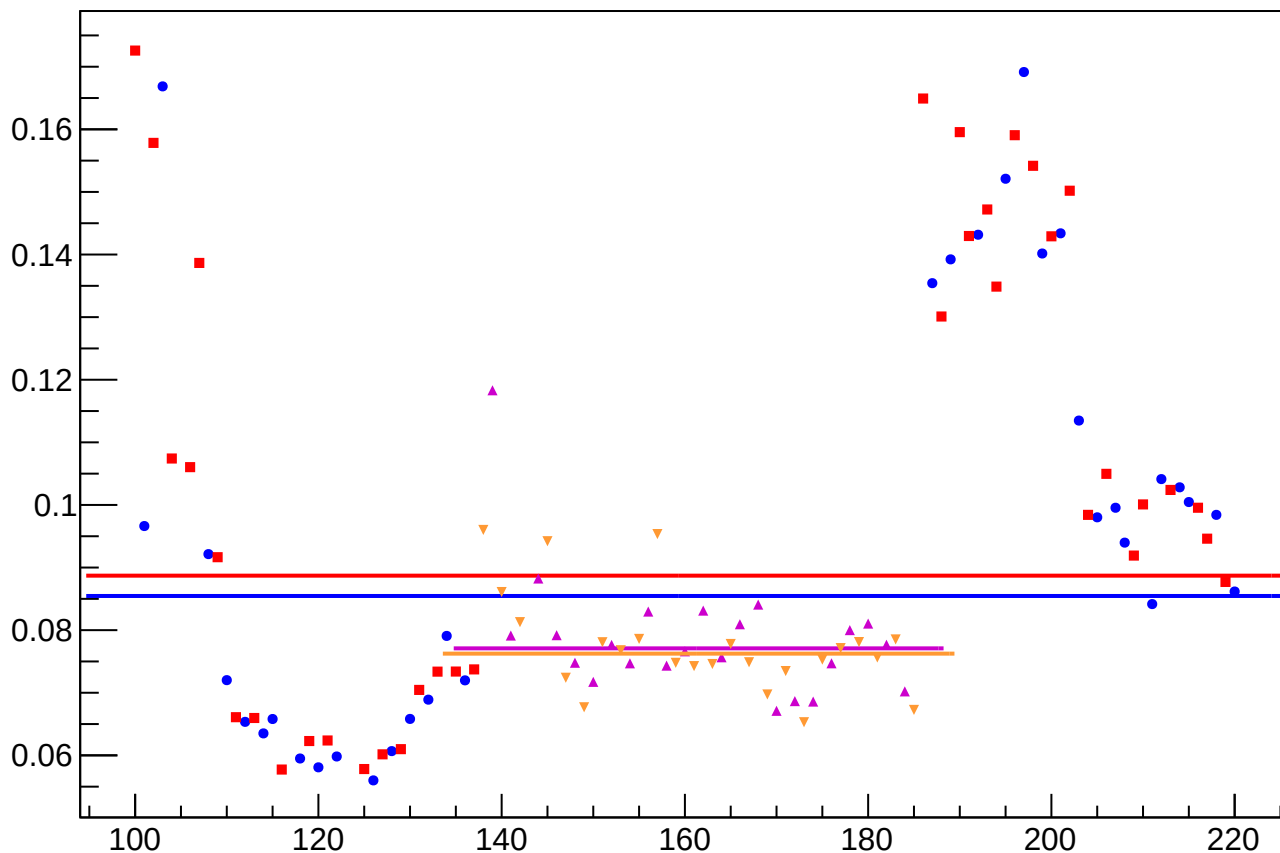
Left In: 30.809 $\pm$ 0.000

χ^2 /NDF: 821961762.3/22

All: 31.545 $\pm$ 0.000

χ^2 /NDF: 14509725276.2

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.085+/-0.000 χ^2/NDF : 3304147.1/32

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3682932.1/35

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

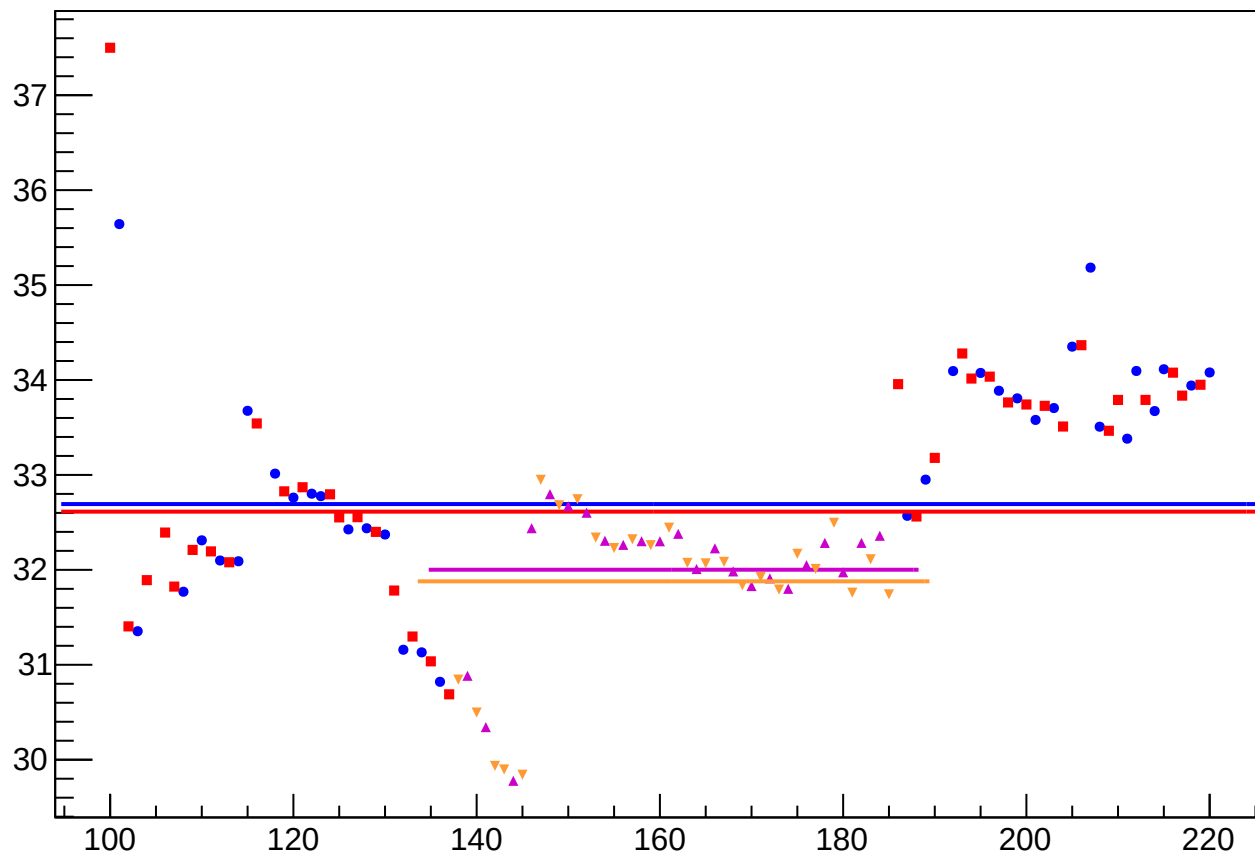
Right: 0.087+/-0.000 χ^2/NDF : 7009833.3/68

In: 0.081+/-0.000 χ^2/NDF : 3800096.1/55

Out: 0.082+/-0.000 χ^2/NDF : 4330112.4/59

All: 0.081+/-0.000 χ^2/NDF : 8132712.2/115

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.693+/-0.000 χ^2/NDF : 1757372743.7/33

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.613+/-0.000 χ^2/NDF : 1079560555.3/35

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

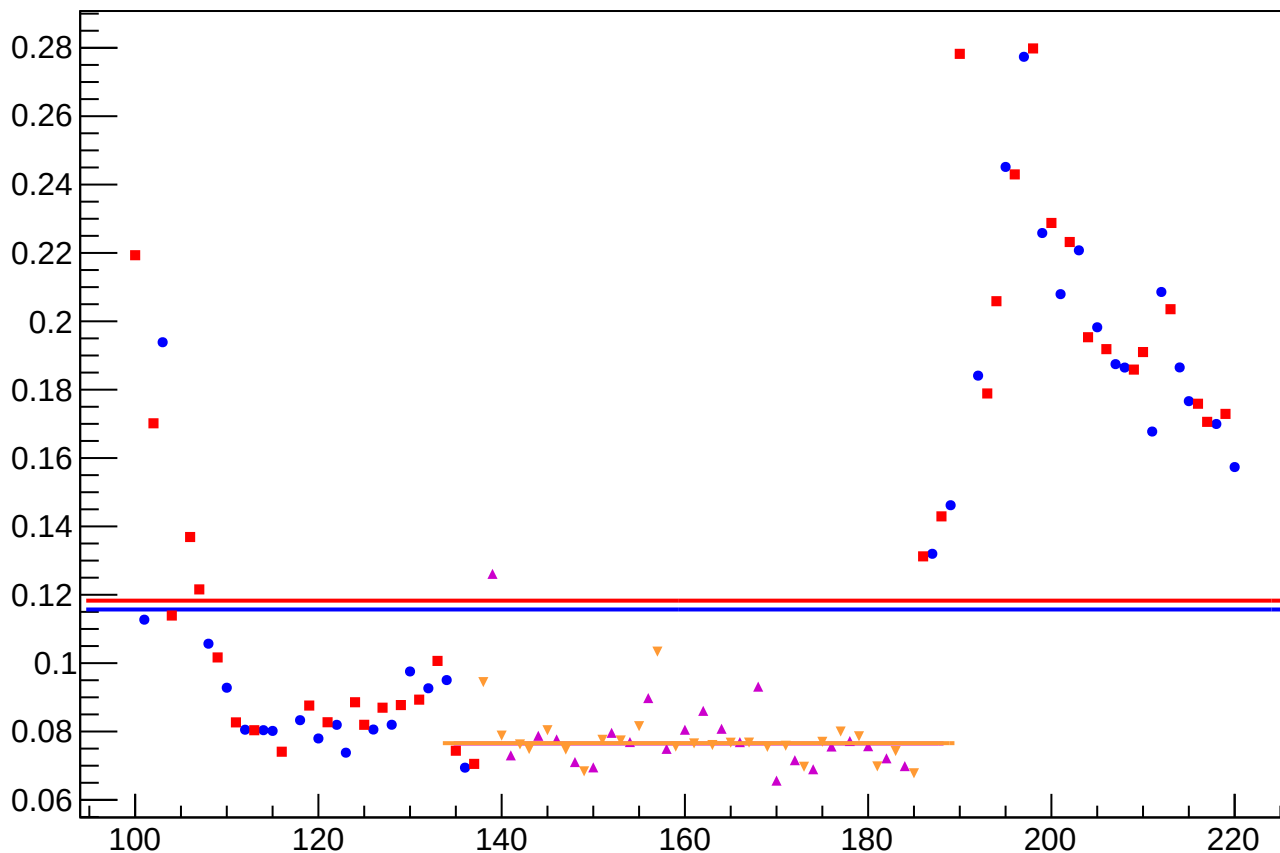
Right: 32.654+/-0.000 χ^2/NDF : 2840420197.5/69

In: 32.200+/-0.000 χ^2/NDF : 3546433864.0/56

Out: 32.080+/-0.000 χ^2/NDF : 3480826610.3/60

All: 32.139+/-0.000 χ^2/NDF : 7055333587.6/131

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.116+/-0.000 χ^2/NDF : 5908699.0/33

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.118+/-0.000 χ^2/NDF : 5548873.3/35

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

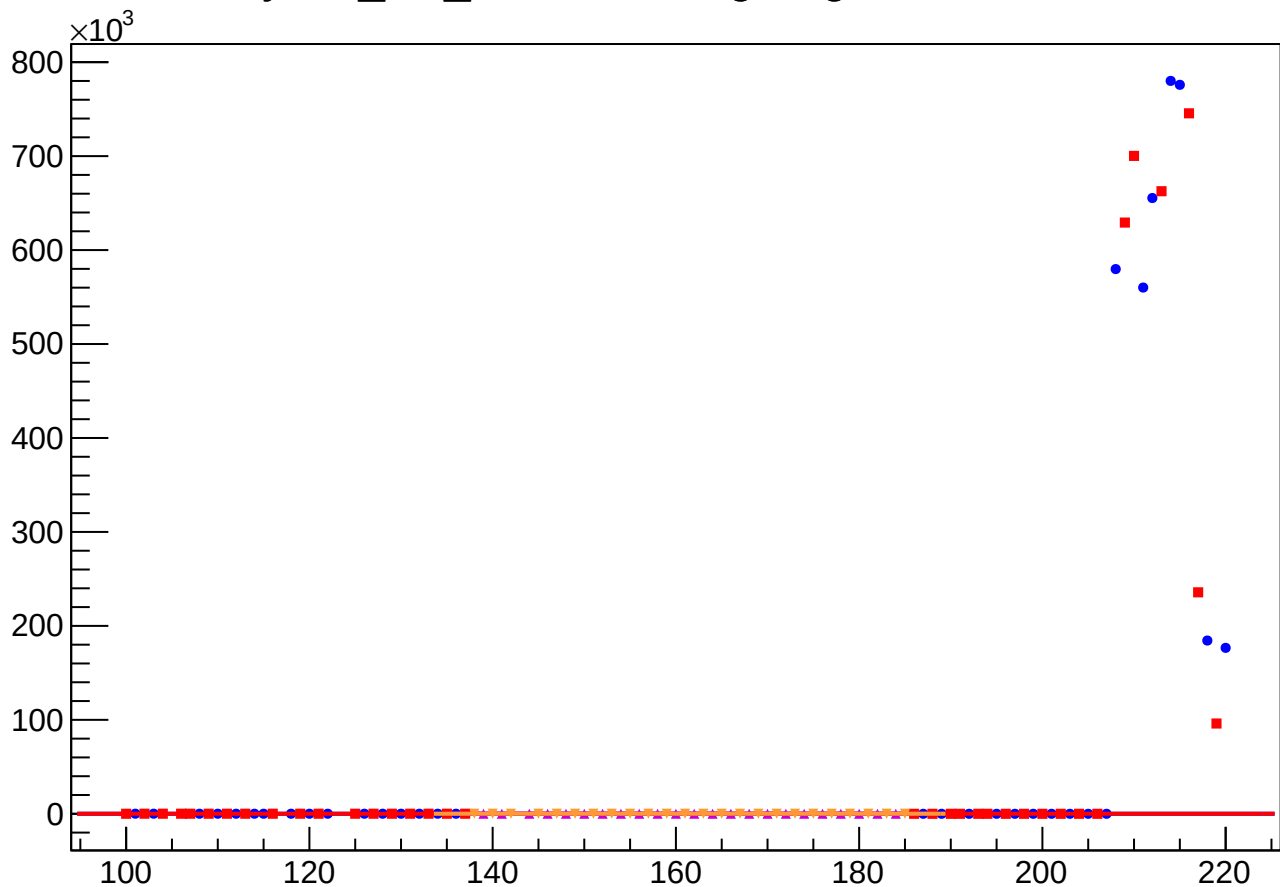
Right: 0.117+/-0.000 χ^2/NDF : 11464933.3/69

In: 0.088+/-0.000 χ^2/NDF : 8768957.5/56

Out: 0.088+/-0.000 χ^2/NDF : 8500513.5/60

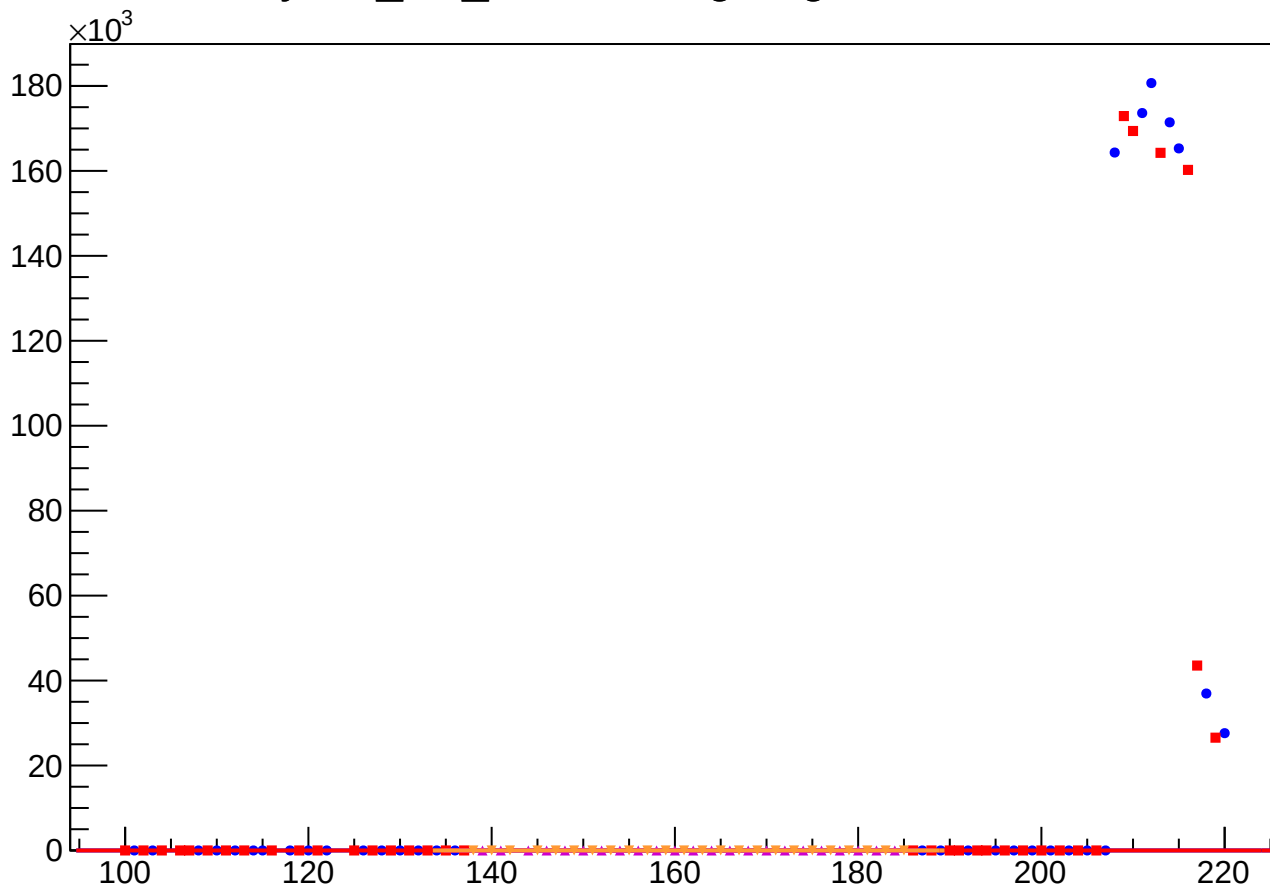
All: 0.088+/-0.000 χ^2/NDF : 17269713.6/117

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853598639617.7/32	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 : 22419983568031.9/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528477446503.4/35	In: 71.422+/-0.000	χ^2/NDF : 13699435442167.7/5
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15307030202175.6/5
		All: 70.353+/-0.000	χ^2/NDF : 2903839132018

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 10008245.4/32

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 8666630.0/35

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 450258.5/46

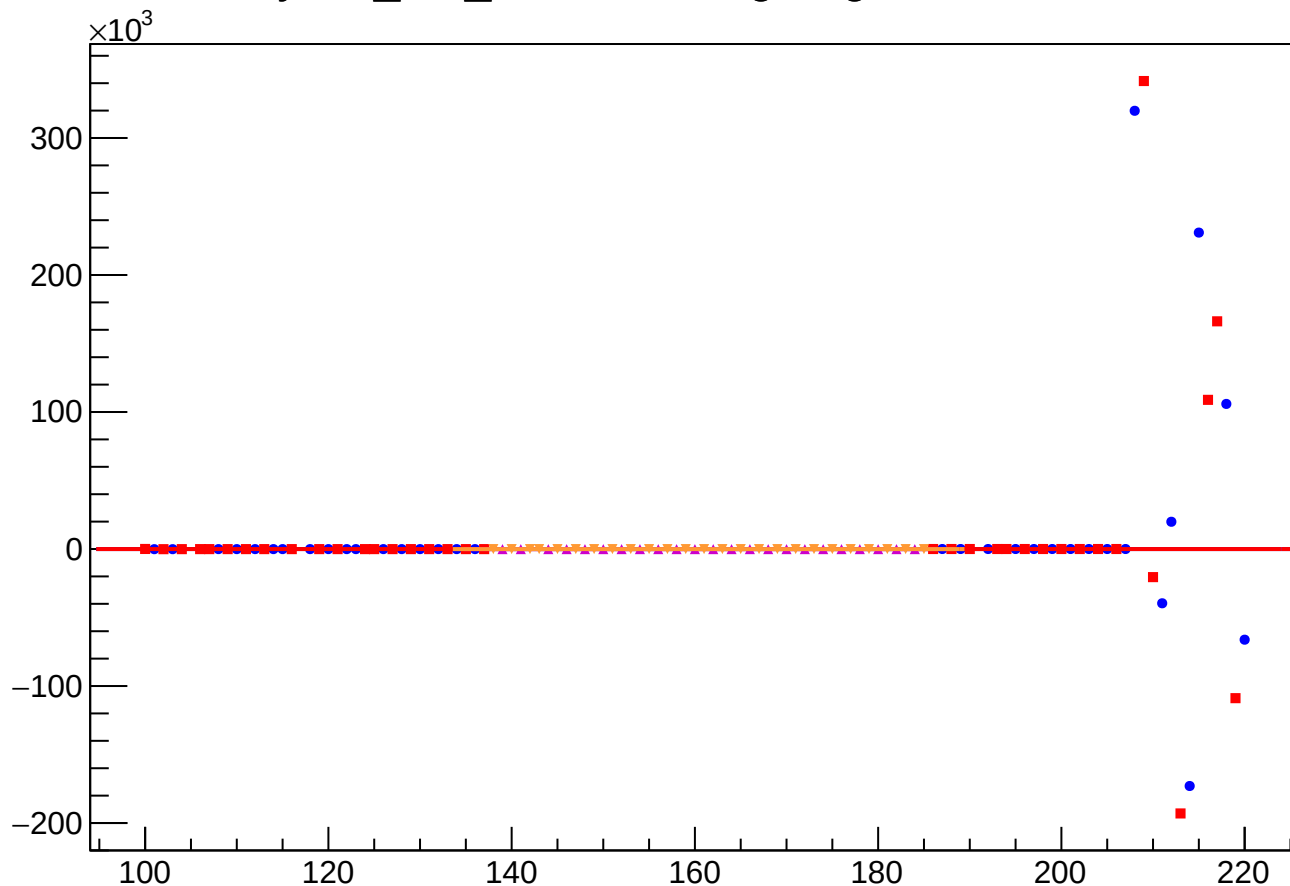
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 18674879.2/68

In: 0.046 $\pm$ 0.000 χ^2 /NDF:10277560.4/55

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:8892882.5/59

All: 0.046 $\pm$ 0.000 χ^2 /NDF: 19170985.9/115

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000

χ^2/NDF : 7479131884873.3/33

Left: -69.460+/-0.000

χ^2/NDF : 102399164.0/47

Right: -29.369+/-0.000

χ^2/NDF : 14808907559517.8

Left Out: -69.461+/-0.000

χ^2/NDF : 49572401.9/24

In: -50.762+/-0.000

χ^2/NDF : 11497073478843.4/5

Right Out: -28.760+/-0.000

χ^2/NDF : 7325686267870.0/35

Out: -50.075+/-0.000

χ^2/NDF : 11926095559129.9/

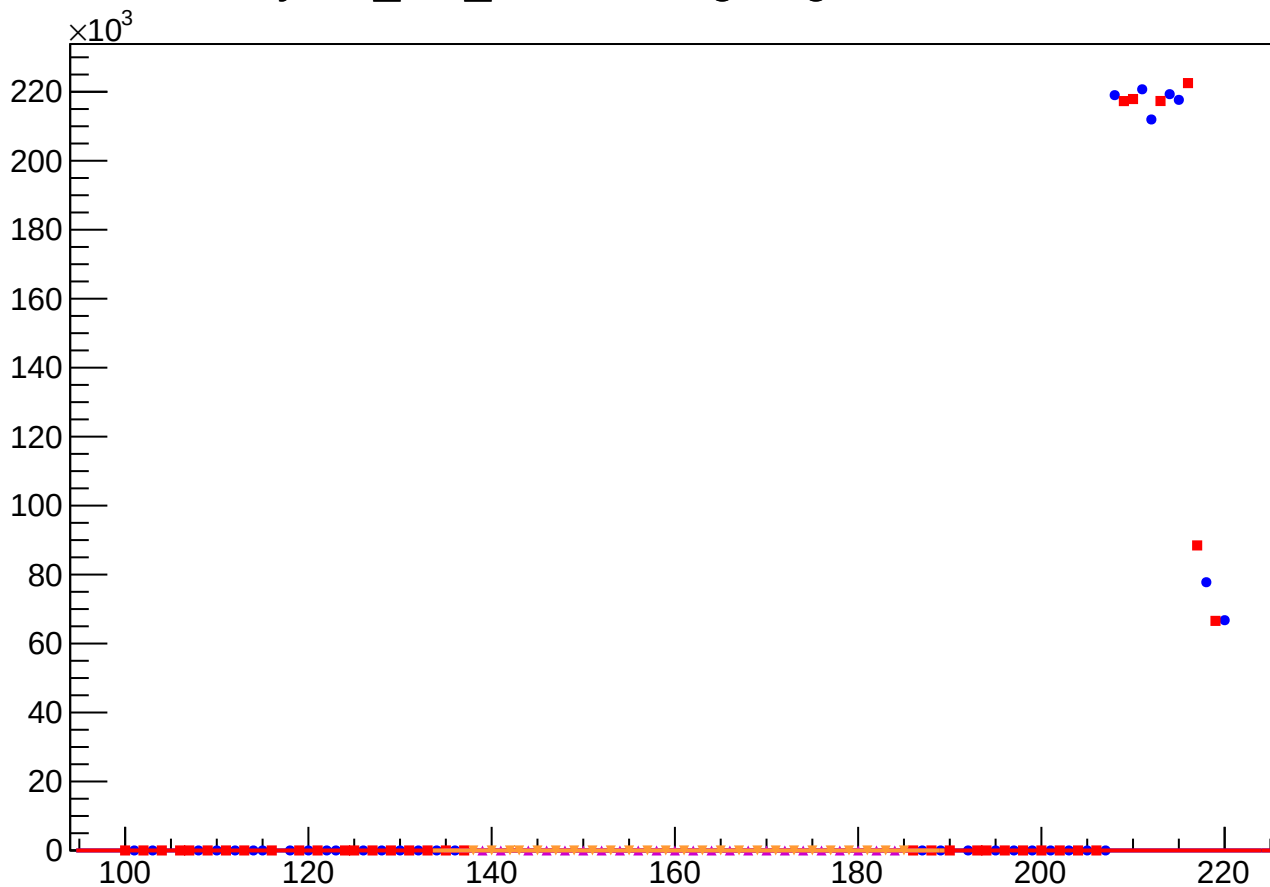
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -50.406+/-0.000

χ^2/NDF : 234257013678

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 10013711.2/33

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.052+/-0.000 χ^2/NDF : 8599855.8/35

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

Right: 0.052+/-0.000 χ^2/NDF : 18613614.9/69

In: 0.054+/-0.000 χ^2/NDF : 10127762.4/56

Out: 0.054+/-0.000 χ^2/NDF : 8694509.5/60

All: 0.054+/-0.000 χ^2/NDF : 18822969.6/117

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 208400670867.0/33

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 705699273072.7/70

Right Out: 0.017+/-0.000

χ^2/NDF : 463941835390.7/36

In: 0.023+/-0.000

χ^2/NDF : 228449485006.3/56

Out: 0.021+/-0.000

χ^2/NDF : 574093652112.4/61

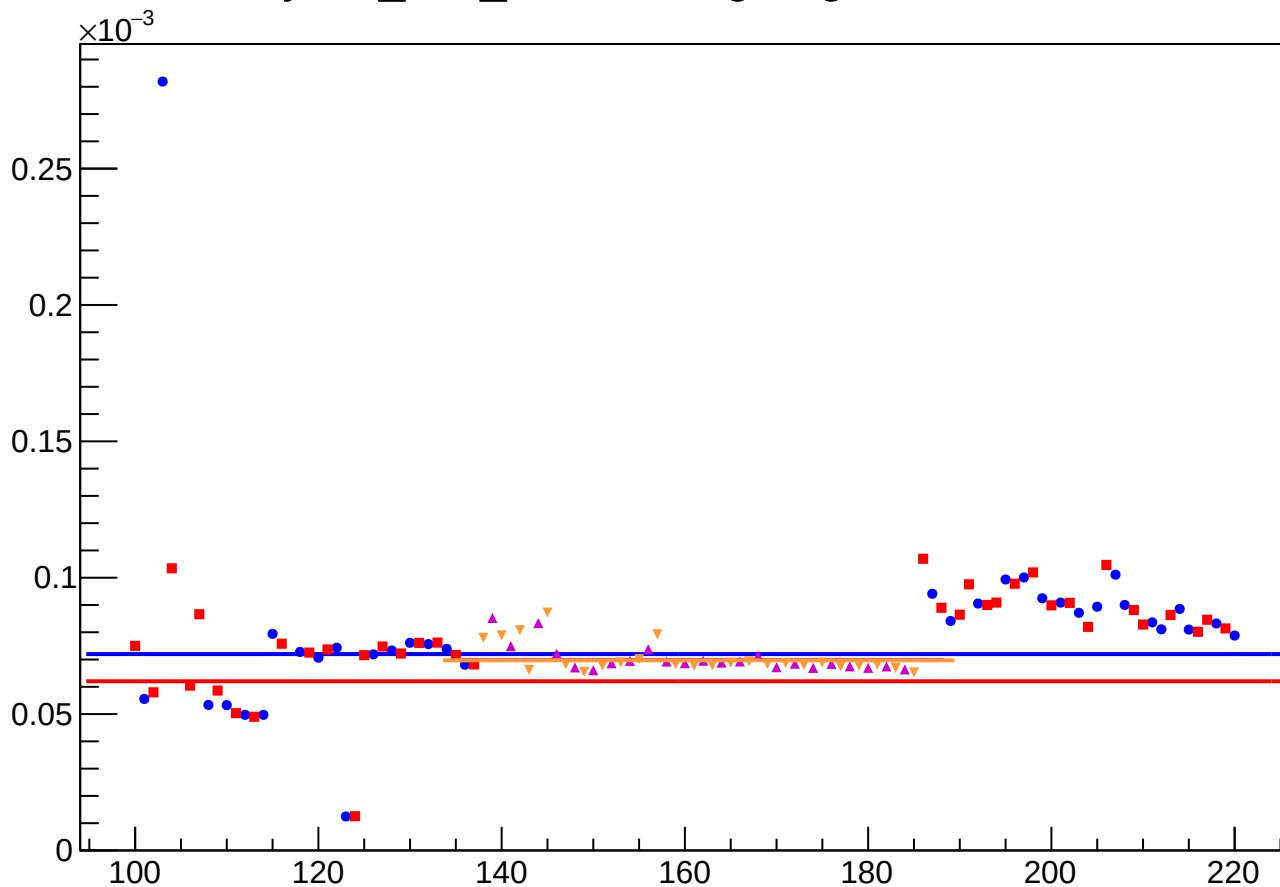
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 824845427707.2

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3690447.1/33

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7401557.8/36

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

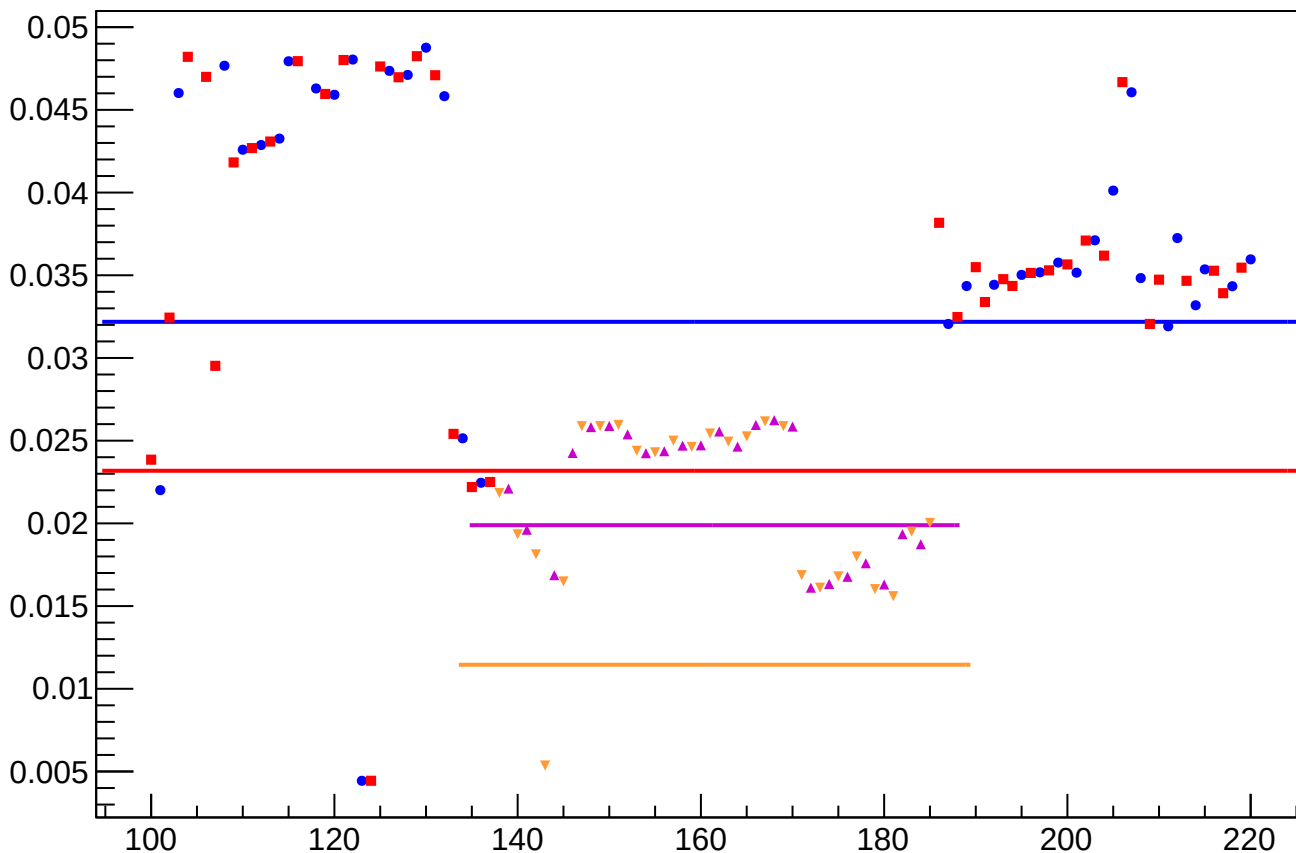
Right: 0.000+/-0.000 χ^2/NDF : 11443459.8/70

In: 0.000+/-0.000 χ^2/NDF :3835254.5/56

Out: 0.000+/-0.000 χ^2/NDF :7784638.0/61

All: 0.000+/-0.000 χ^2/NDF : 11806777.1/118

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000

χ^2 /NDF: 21866105528.6/33

Left: 0.014 $\pm$ 0.000

χ^2 /NDF: 59527747529.2/47

Right: 0.027 $\pm$ 0.000

χ^2 /NDF: 72514248409.4/70

Left Out: 0.011 $\pm$ 0.000

χ^2 /NDF: 40294472965.0/24

In: 0.023 $\pm$ 0.000

χ^2 /NDF: 37680121203.2/56

Right Out: 0.023 $\pm$ 0.000

χ^2 /NDF: 45767651500.8/36

Out: 0.013 $\pm$ 0.000

χ^2 /NDF: 103002252447.2/61

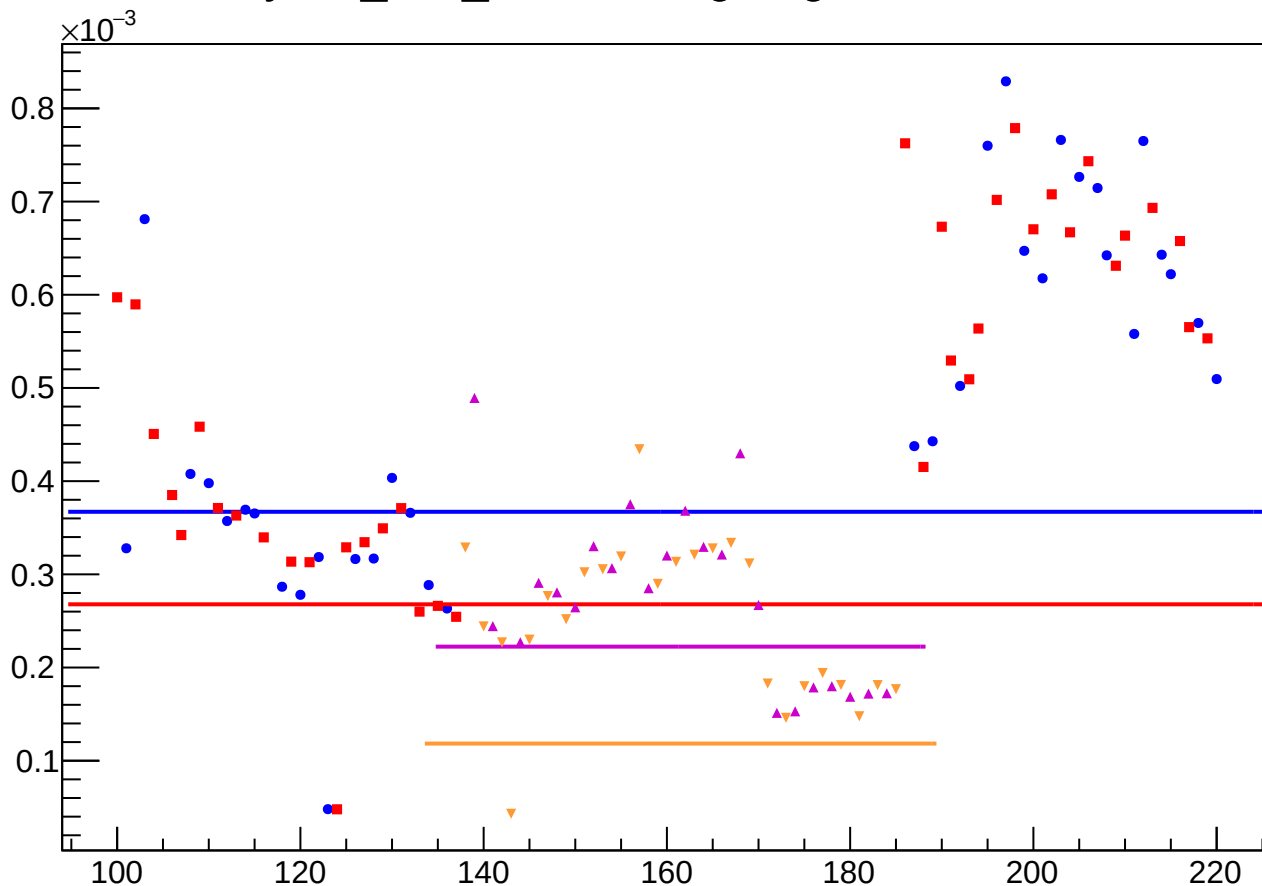
Left In: 0.020 $\pm$ 0.000

χ^2 /NDF: 4458790813.3/22

All: 0.016 $\pm$ 0.000

χ^2 /NDF: 165488710570.8

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8177265.8/33

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14844664.7/36

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

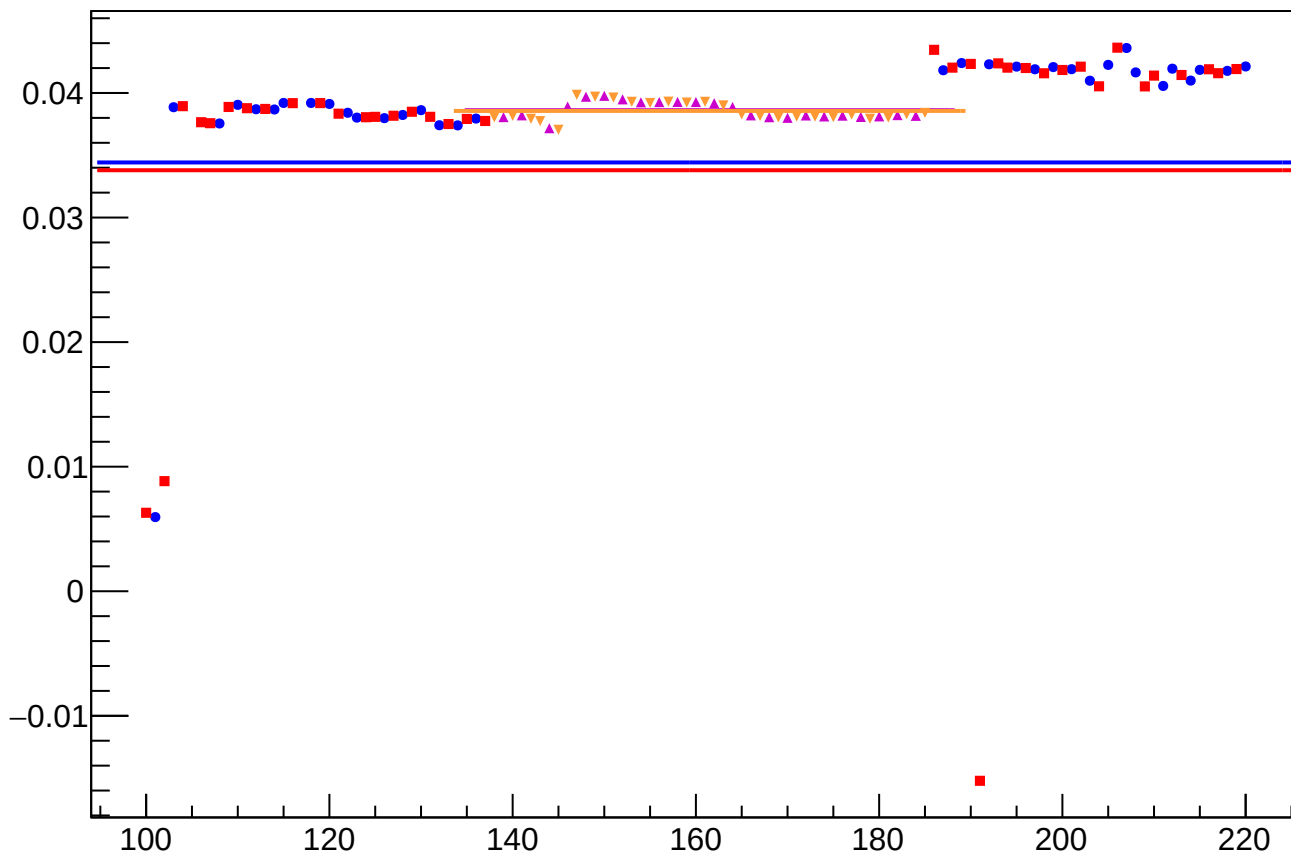
Right: 0.000+/-0.000 χ^2/NDF : 24208607.9/70

In: 0.000+/-0.000 χ^2/NDF :14603670.5/56

Out: 0.000+/-0.000 χ^2/NDF :33908933.7/61

All: 0.000+/-0.000 χ^2/NDF : 55725934.2/118

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034+/-0.000

χ^2/NDF : 123865519324.7/33

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.034+/-0.000

χ^2/NDF : 312635050234.8/70

Right Out: 0.034+/-0.000

χ^2/NDF : 188621784336.3/36

In: 0.037+/-0.000

χ^2/NDF : 131988377790.9/56

Out: 0.037+/-0.000

χ^2/NDF : 199261961075.8/61

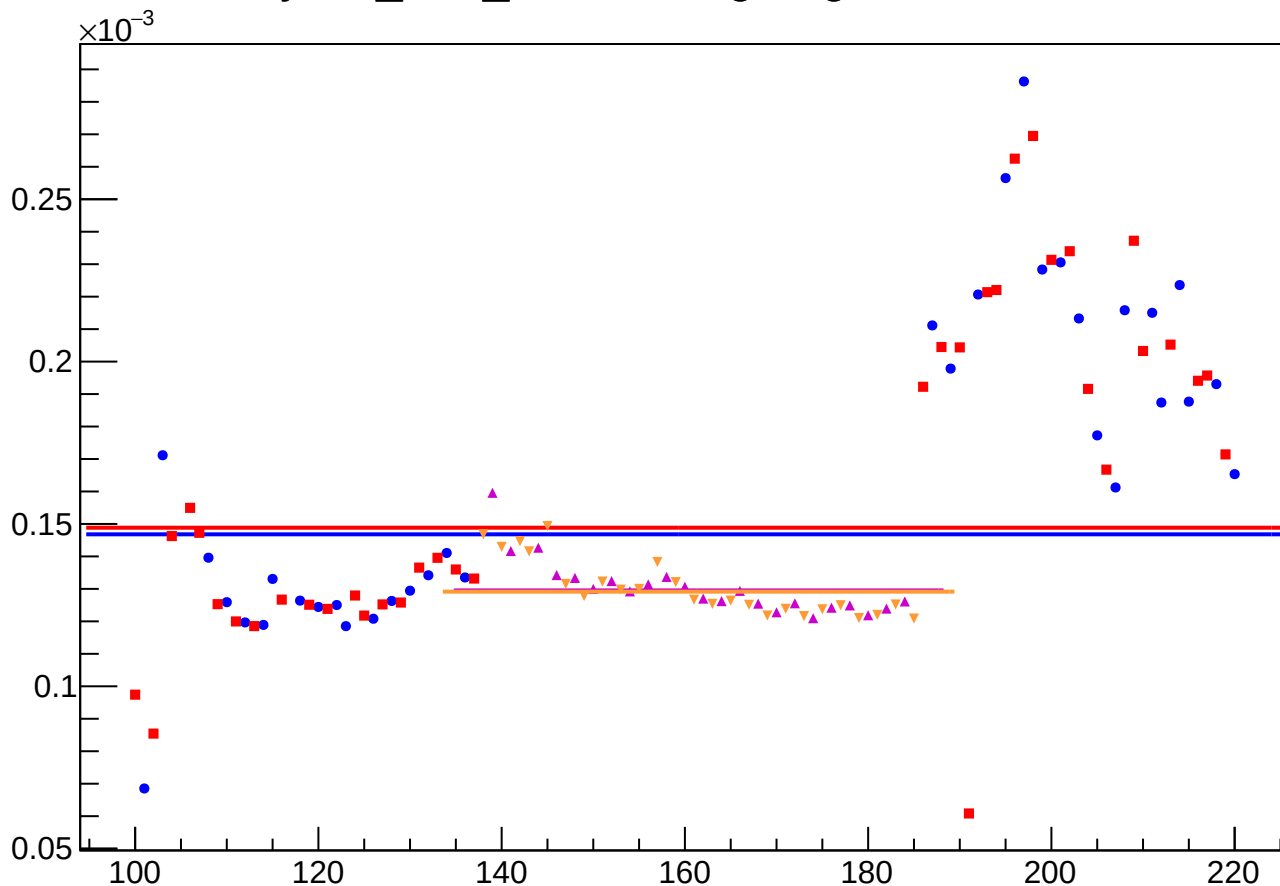
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 331298278508.5

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4001125.9/33

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3712478.0/36

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

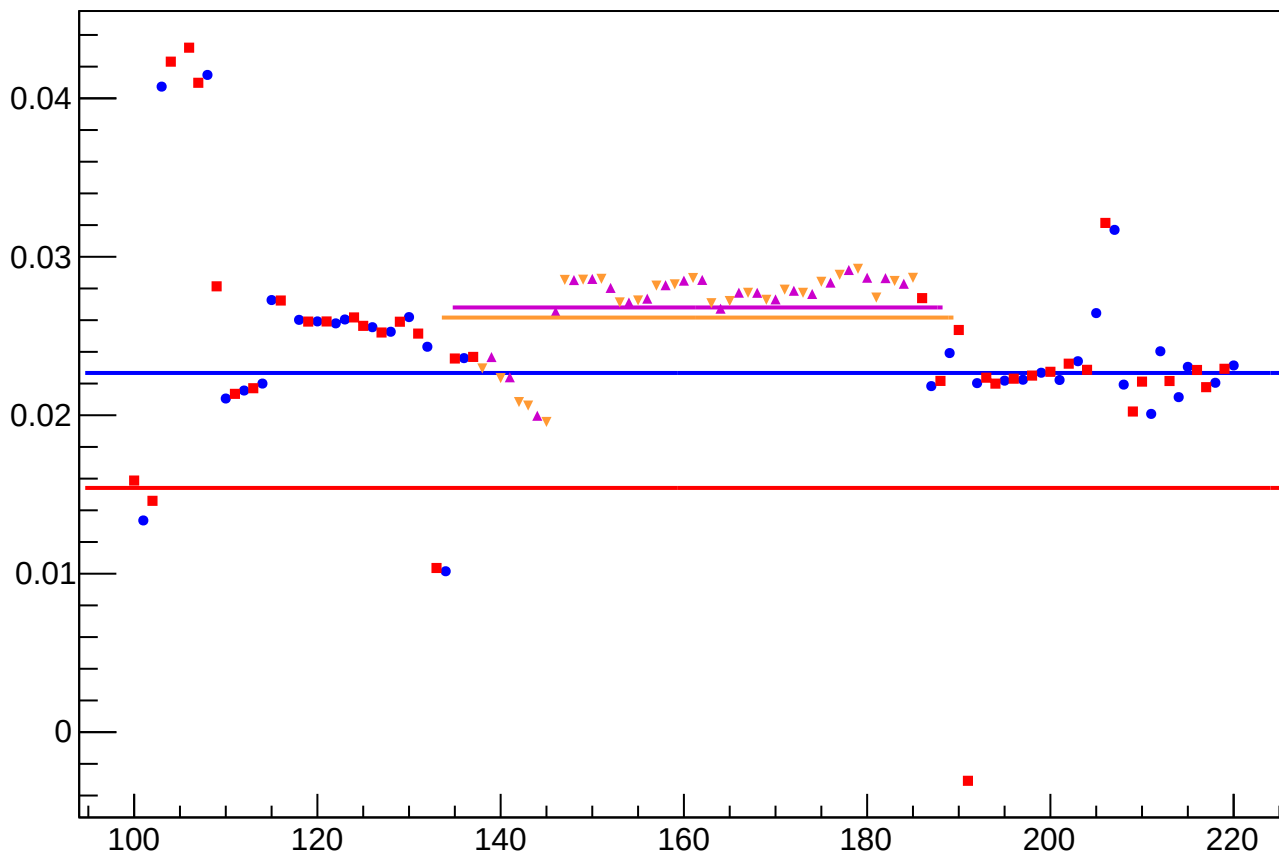
Right: 0.000+/-0.000 χ^2/NDF : 7716750.0/70

In: 0.000+/-0.000 χ^2/NDF :4375448.6/56

Out: 0.000+/-0.000 χ^2/NDF :4188310.7/61

All: 0.000+/-0.000 χ^2/NDF : 8563997.6/118

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000

χ^2/NDF : 4429942927.5/33

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 : 40457756686.4/70

Right Out: 0.015+/-0.000

χ^2/NDF : 32135187914.2/36

In: 0.025+/-0.000

χ^2/NDF : 7046923704.6/56

Out: 0.021+/-0.000

χ^2/NDF : 45093471029.9/61

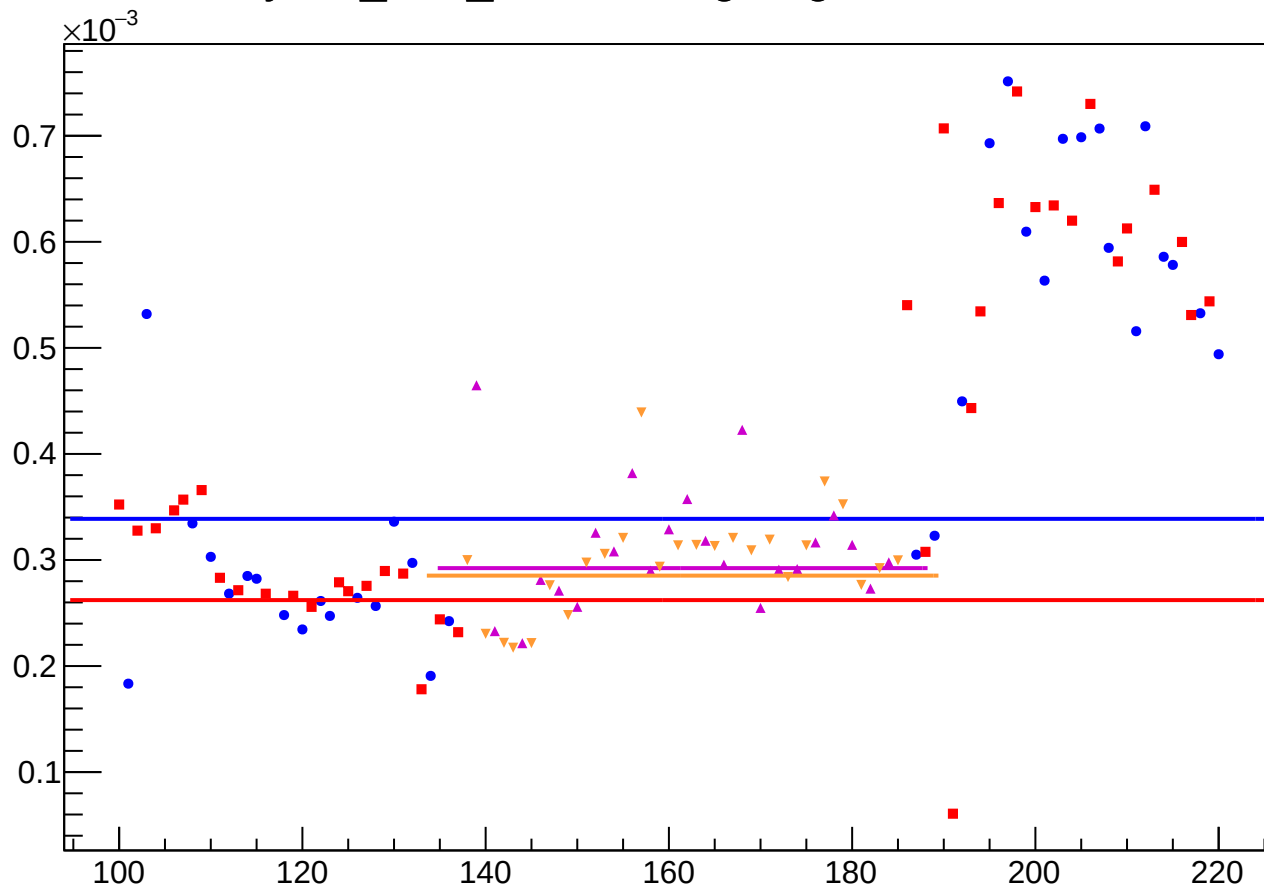
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.023+/-0.000

χ^2/NDF : 54860702236.6/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6271275.1/33

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11627707.8/36

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

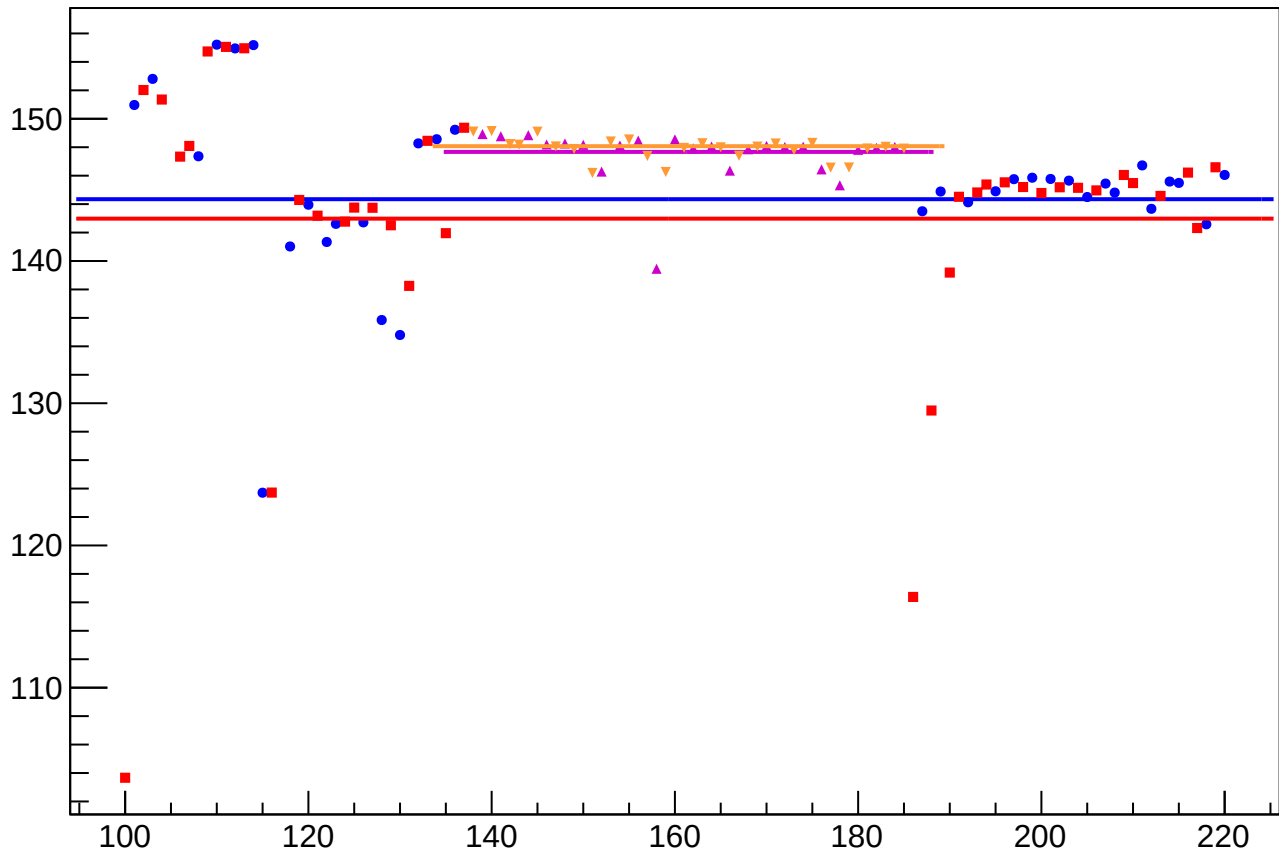
Right: 0.000+/-0.000 χ^2/NDF : 18767061.0/70

In: 0.000+/-0.000 χ^2/NDF :7494716.6/56

Out: 0.000+/-0.000 χ^2/NDF :12541663.0/61

All: 0.000+/-0.000 χ^2/NDF : 20499153.2/118

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.346 $\pm$ 0.000 χ^2 /NDF: 3520638484.4/33

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.979 $\pm$ 0.000 χ^2 /NDF: 7493022901.1/36

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

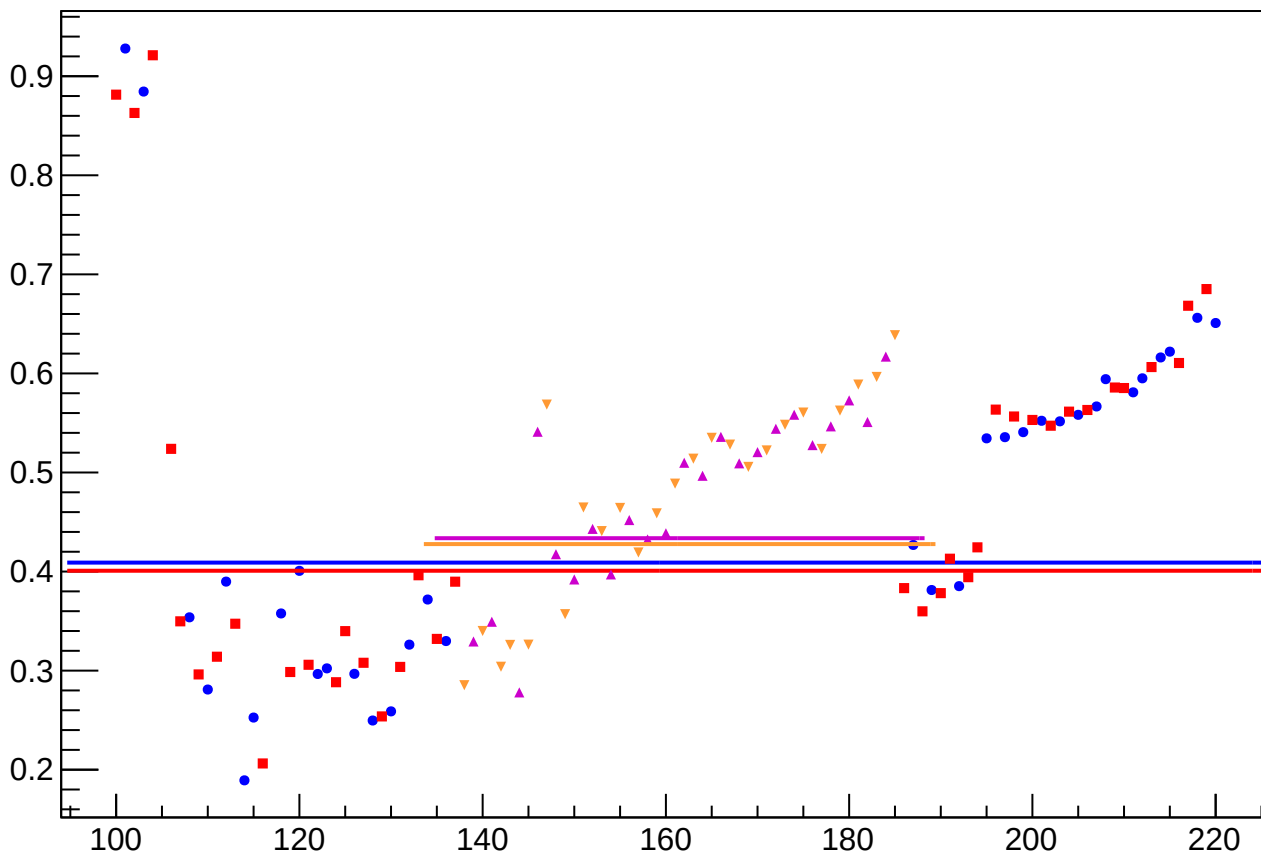
Right: 143.635 $\pm$ 0.000 χ^2 /NDF: 11107110445.7/70

In: 145.920 $\pm$ 0.000 χ^2 /NDF: 4368892714.5/56

Out: 145.379 $\pm$ 0.000 χ^2 /NDF: 8832097911.3/61

All: 145.639 $\pm$ 0.000 χ^2 /NDF: 13228769307.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 4085345.3/33

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.401 $\pm$ 0.000 χ^2 /NDF: 3803366.0/36

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

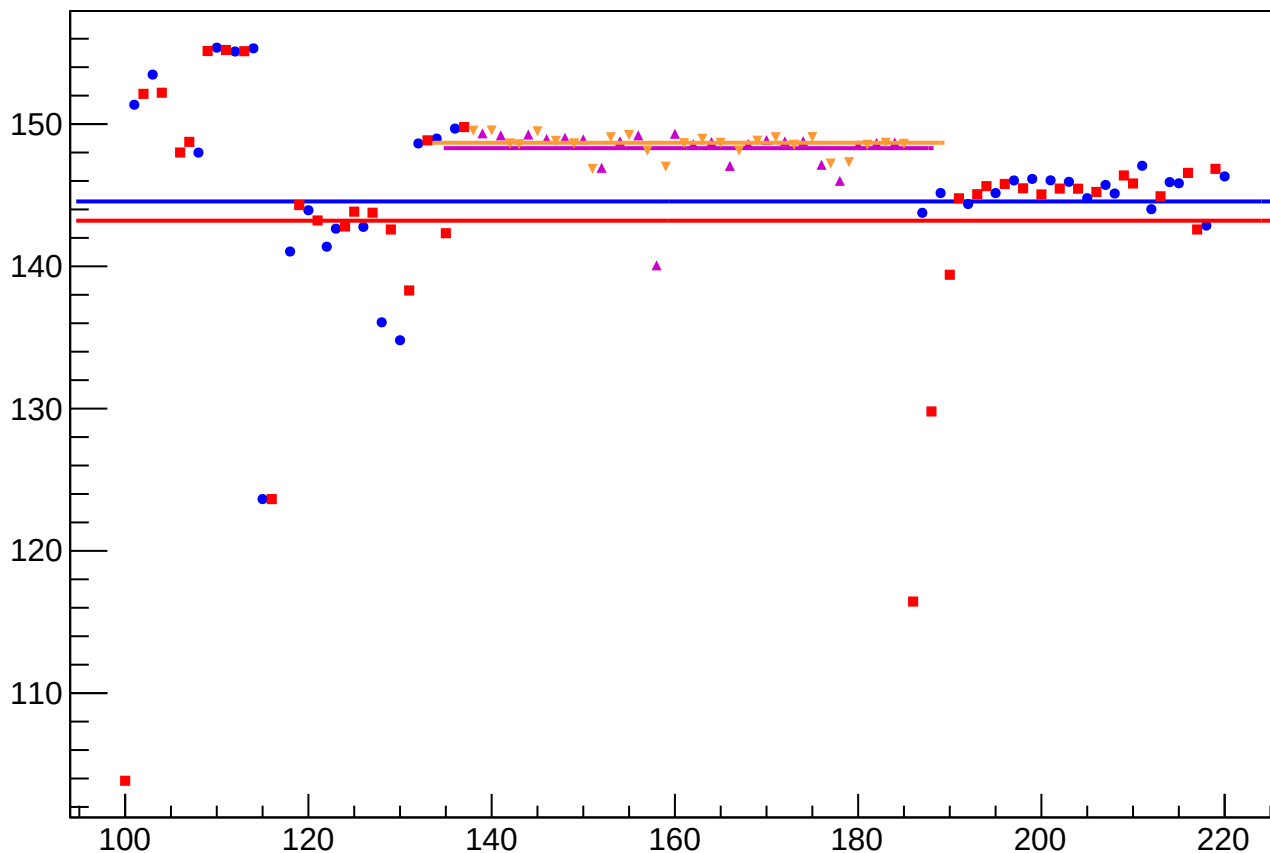
Right: 0.405 $\pm$ 0.000 χ^2 /NDF: 7895461.6/70

In: 0.421 $\pm$ 0.000 χ^2 /NDF:5636895.7/56

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:5771213.2/61

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 11417940.0/118

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.561+/-0.000 χ^2/NDF : 3571966170.9/33

Left Out: 148.686+/-0.000 χ^2/NDF : 52218185.1/24

Right Out: 143.209+/-0.000 χ^2/NDF : 7445783904.2/36

Left In: 148.307+/-0.000 χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000 χ^2/NDF : 392094013.2/47

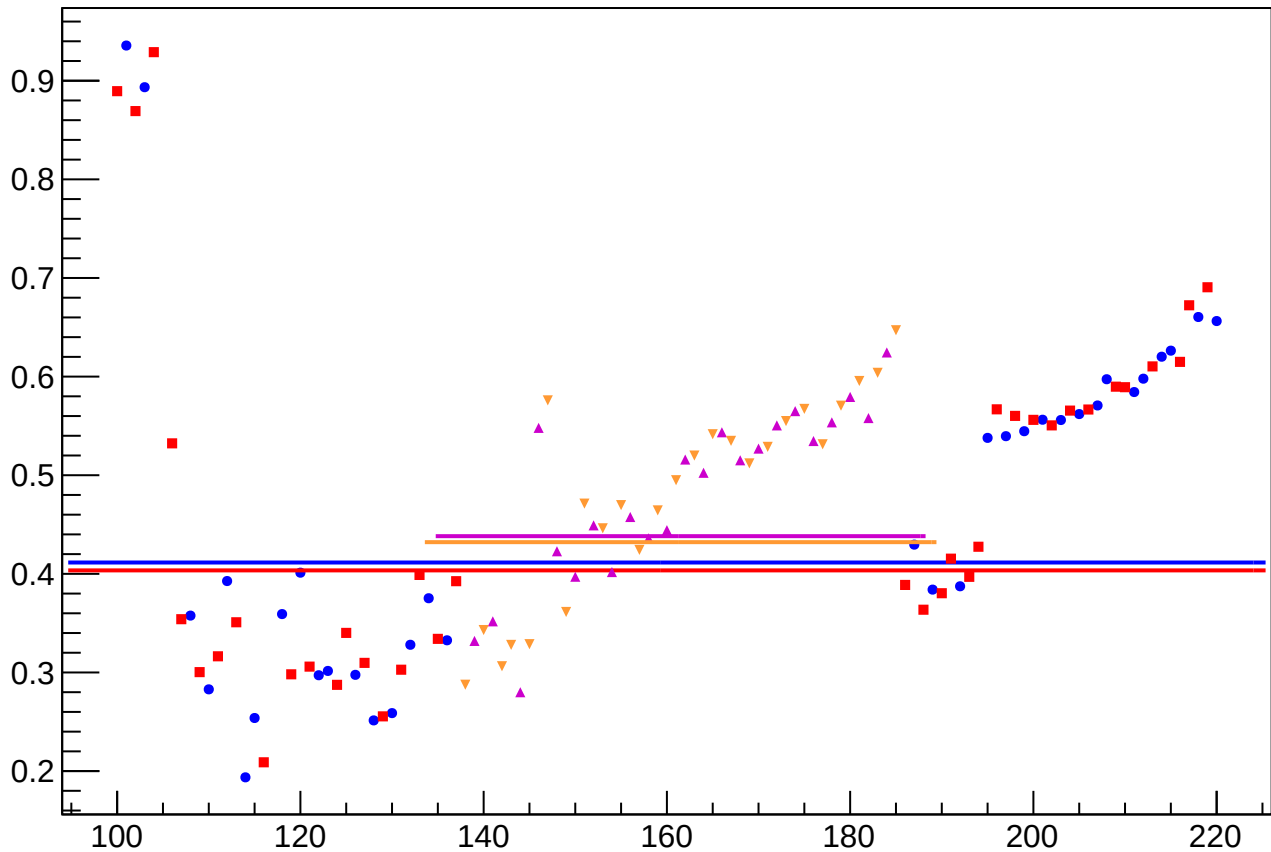
Right: 143.859+/-0.000 χ^2/NDF : 11108010650.6/70

In: 146.326+/-0.000 χ^2/NDF : 4533463890.2/56

Out: 145.778+/-0.000 χ^2/NDF : 8944544827.2/61

All: 146.042+/-0.000 χ^2/NDF : 13505971226.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.411+/-0.000 χ^2/NDF : 4095773.8/33

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.404+/-0.000 χ^2/NDF : 3807987.3/36

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

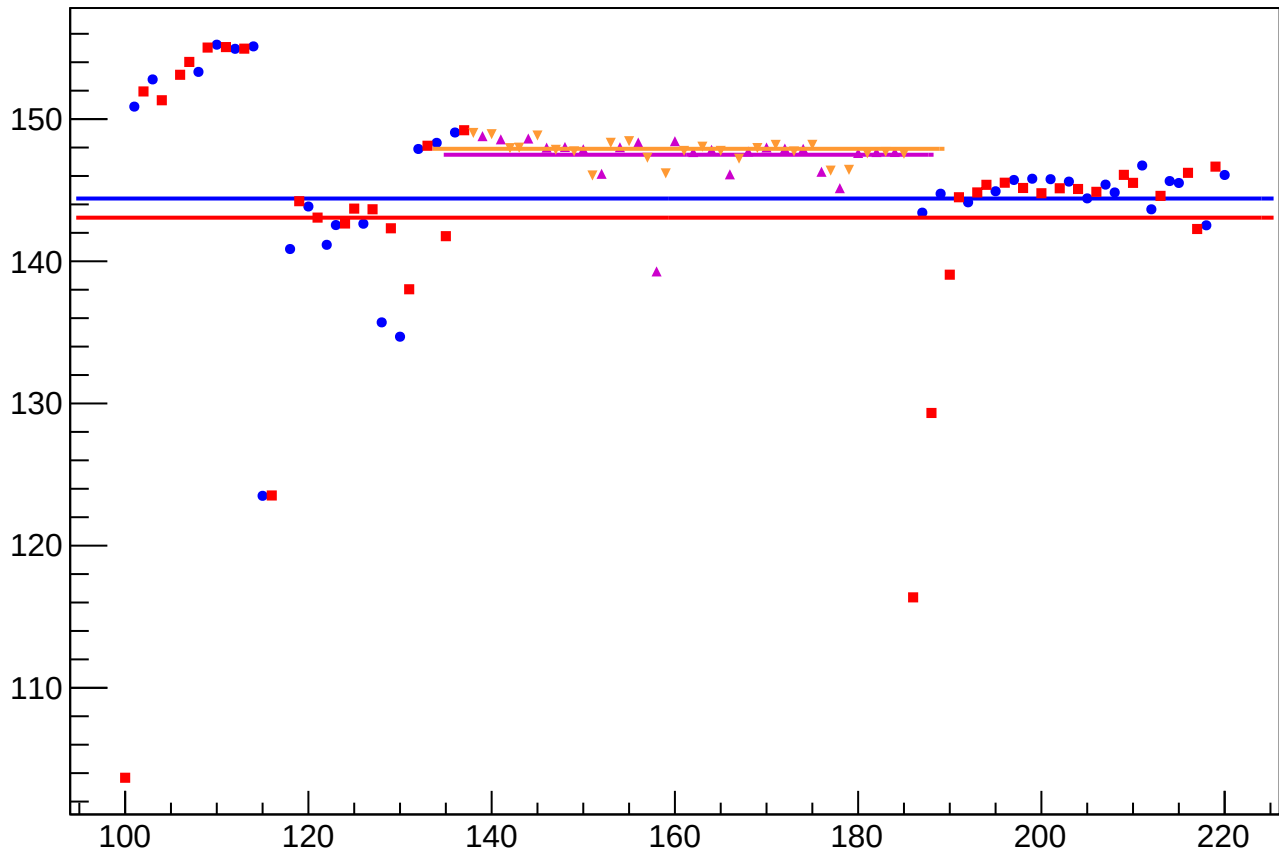
Right: 0.407+/-0.000 χ^2/NDF : 7910068.0/70

In: 0.424+/-0.000 χ^2/NDF :5681531.9/56

Out: 0.417+/-0.000 χ^2/NDF :5816040.4/61

All: 0.420+/-0.000 χ^2/NDF : 11507100.7/118

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.414 ± 0.000 $\chi^2/\text{NDF}: 3726293162.8/33$

Left Out: 147.911 ± 0.000 $\chi^2/\text{NDF}: 64412407.9/24$

Right Out: 143.067 ± 0.000 $\chi^2/\text{NDF}: 7865957569.8/36$

Left In: 147.493 ± 0.000 $\chi^2/\text{NDF}: 343978473.2/22$

Left: 147.709 ± 0.000 $\chi^2/\text{NDF}: 416149781.4/47$

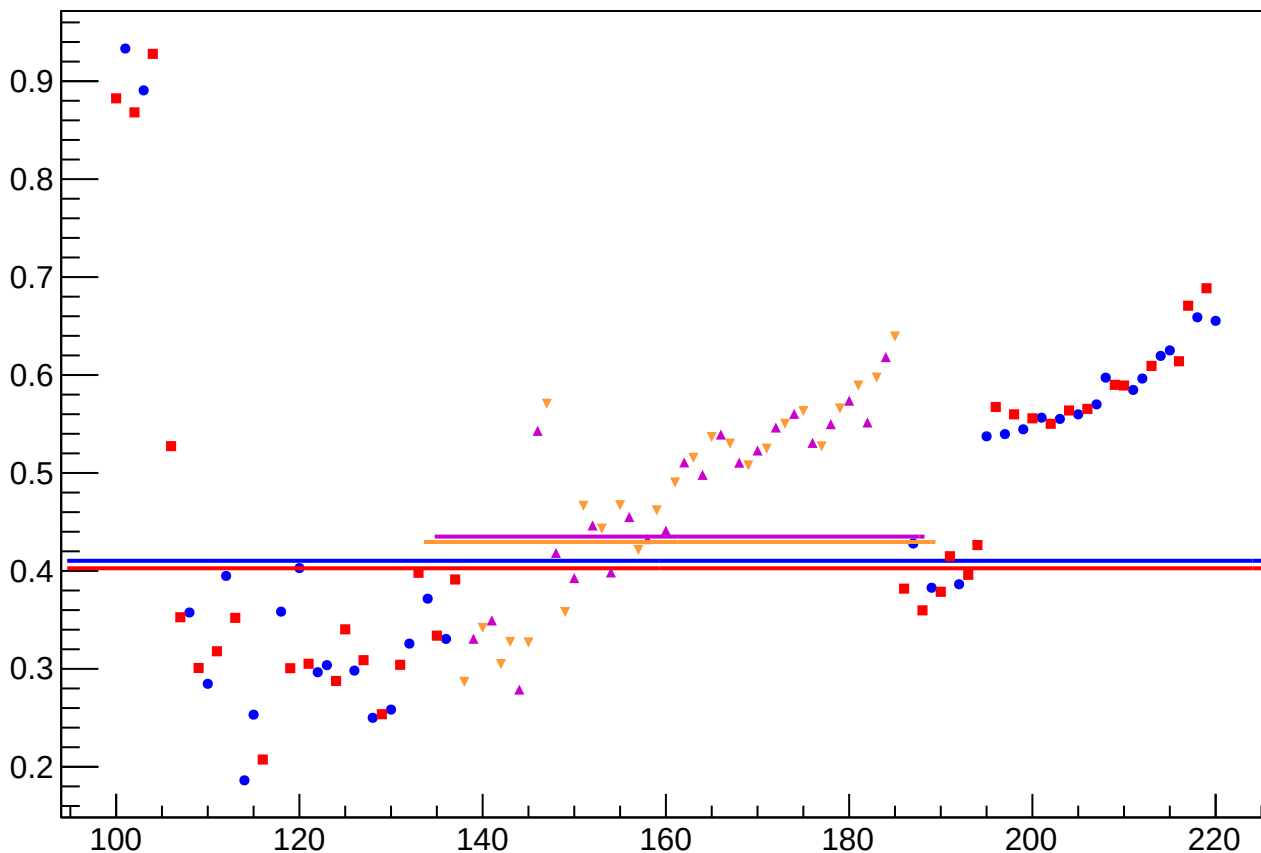
Right: 143.714 ± 0.000 $\chi^2/\text{NDF}: 11682178203.0/70$

In: 145.873 ± 0.000 $\chi^2/\text{NDF}: 4498811265.3/56$

Out: 145.350 ± 0.000 $\chi^2/\text{NDF}: 9071733289.3/61$

All: 145.602 ± 0.000 $\chi^2/\text{NDF}: 13596223367.0/113$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.410+/-0.000 χ^2/NDF : 4127896.2/33

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.403+/-0.000 χ^2/NDF : 3810586.2/36

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

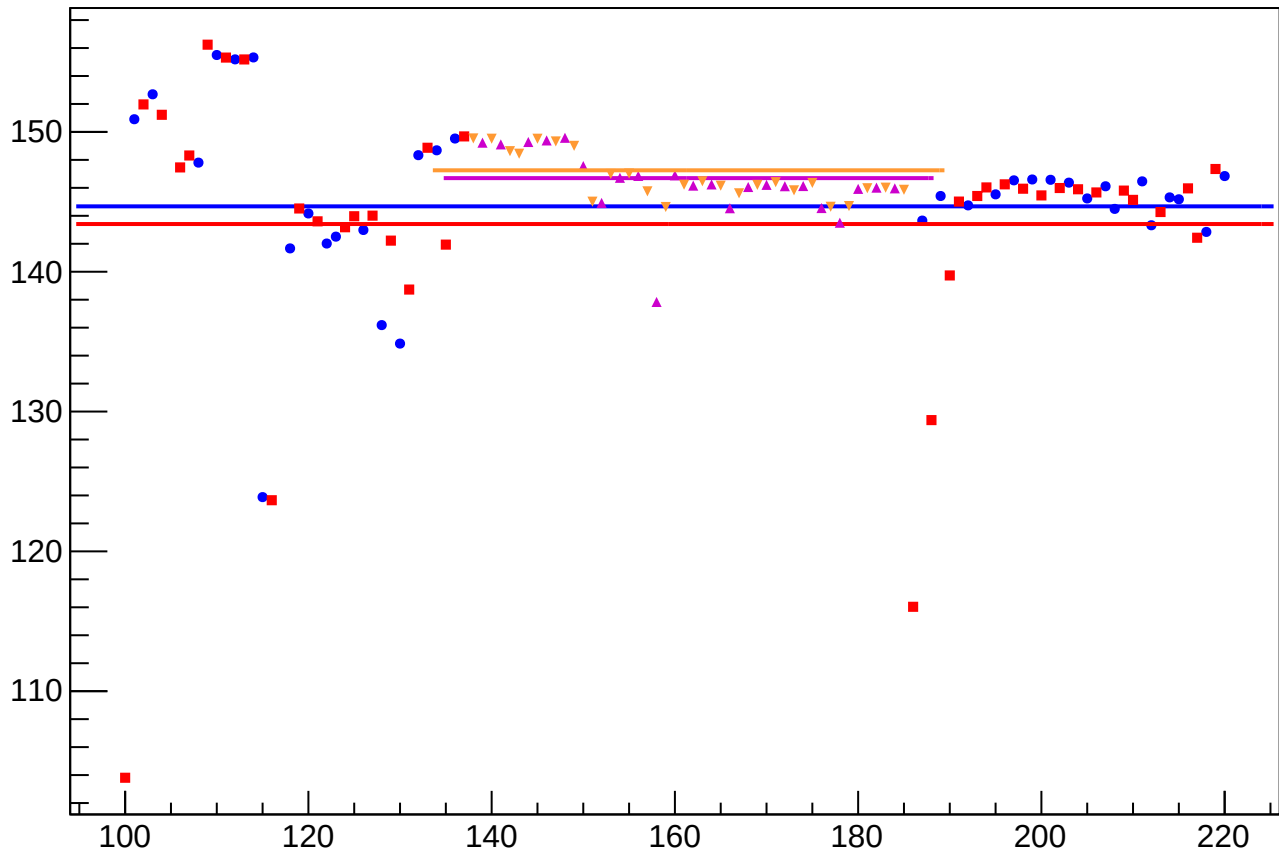
Right: 0.406+/-0.000 χ^2/NDF : 7944285.9/70

In: 0.422+/-0.000 χ^2/NDF :5685798.9/56

Out: 0.415+/-0.000 χ^2/NDF :5776304.9/61

All: 0.419+/-0.000 χ^2/NDF : 11470576.9/118

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.677 $\pm$ 0.000 χ^2 /NDF: 3248098355.7/33

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.412 $\pm$ 0.000 χ^2 /NDF: 7181518011.6/36

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

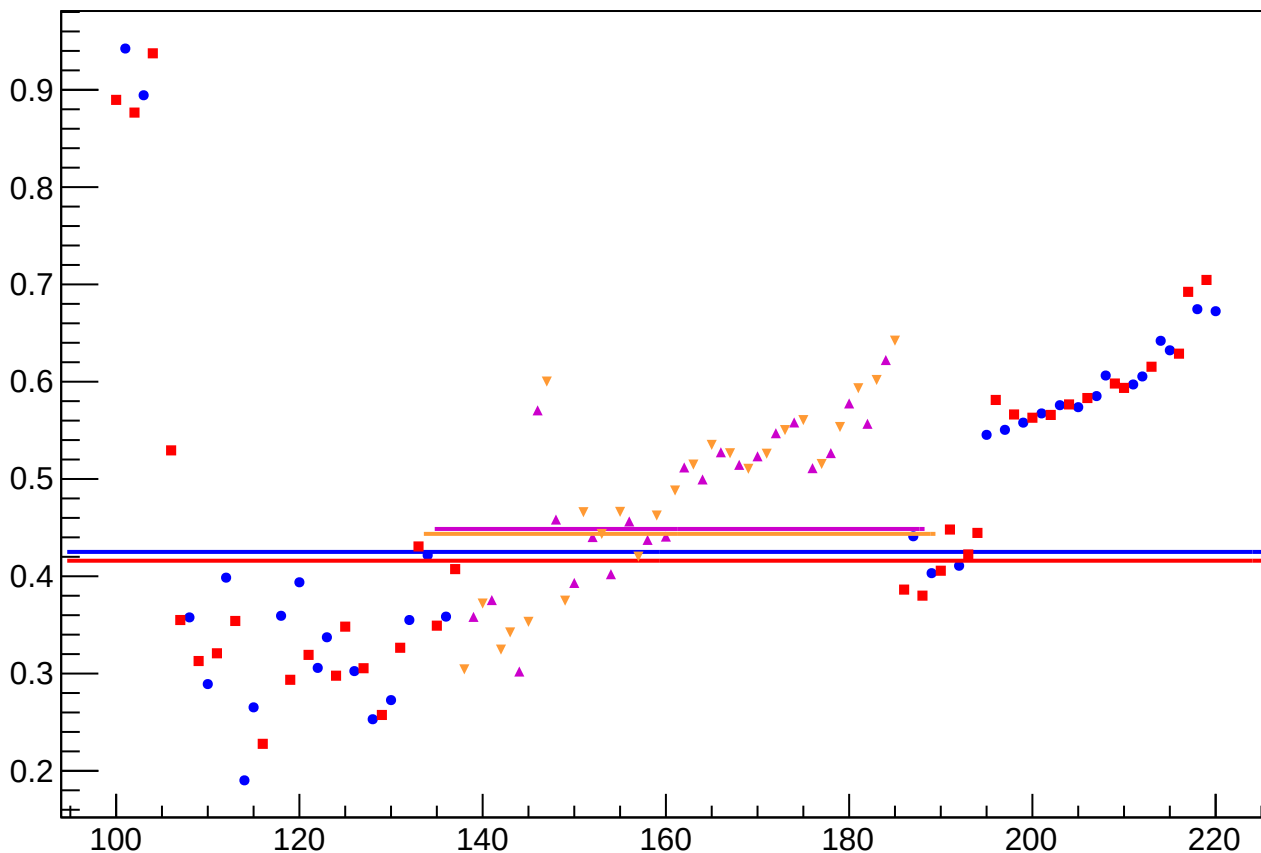
Right: 144.018 $\pm$ 0.000 χ^2 /NDF: 10503732311.6/70

In: 145.642 $\pm$ 0.000 χ^2 /NDF: 3979533837.6/56

Out: 145.233 $\pm$ 0.000 χ^2 /NDF: 8120357624.9/61

All: 145.430 $\pm$ 0.000 χ^2 /NDF: 12114707897.6/116

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.425+/-0.000 χ^2/NDF : 3988953.2/33

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.416+/-0.000 χ^2/NDF : 3691788.7/36

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

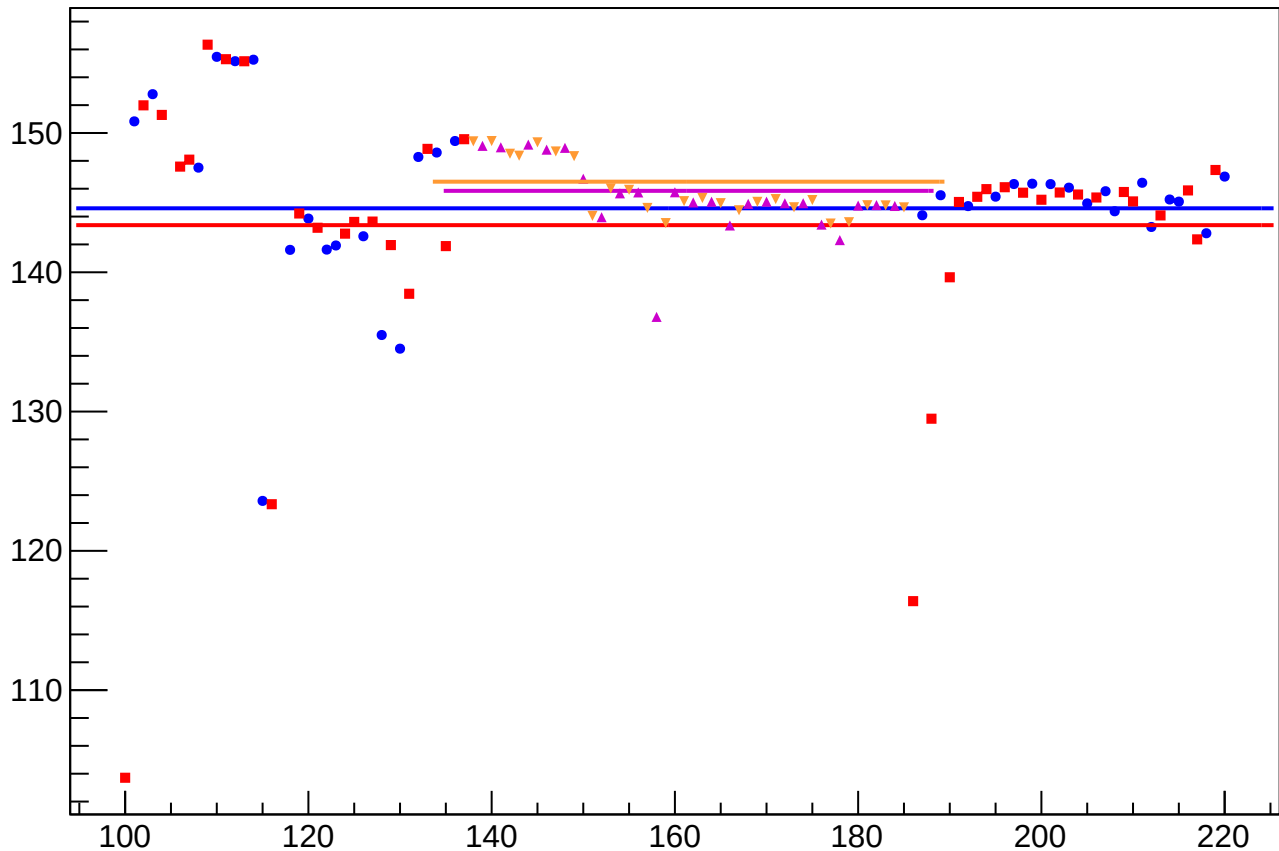
Right: 0.420+/-0.000 χ^2/NDF : 7688333.9/70

In: 0.436+/-0.000 χ^2/NDF :5168994.5/56

Out: 0.429+/-0.000 χ^2/NDF :5245010.7/61

All: 0.433+/-0.000 χ^2/NDF : 10423334.4/118

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.593 $\pm$ 0.000 χ^2 /NDF: 3358443136.4/33

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.383 $\pm$ 0.000 χ^2 /NDF: 7133128296.2/36

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

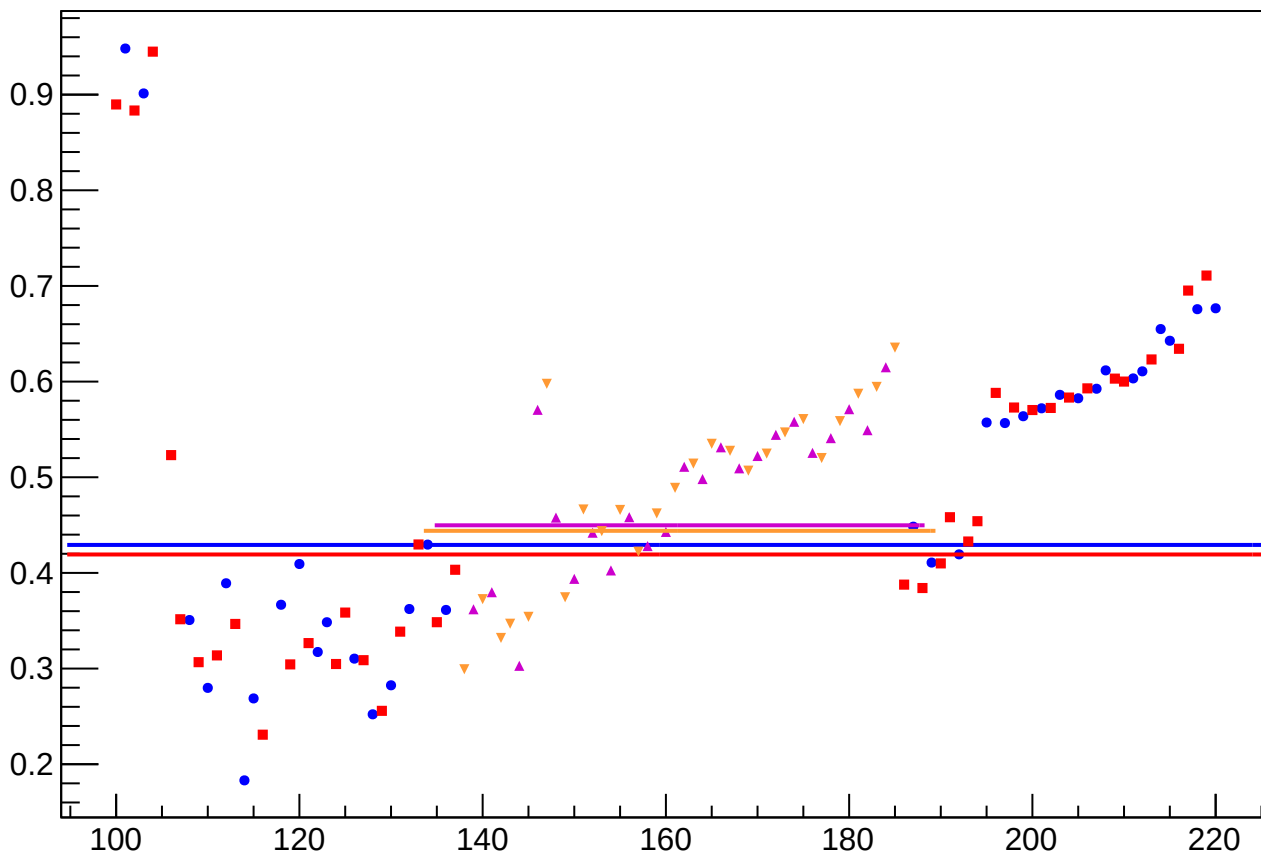
Right: 143.962 $\pm$ 0.000 χ^2 /NDF: 10558024979.7/70

In: 145.198 $\pm$ 0.000 χ^2 /NDF: 4119155331.3/56

Out: 144.875 $\pm$ 0.000 χ^2 /NDF: 7976831947.8/61

All: 145.031 $\pm$ 0.000 χ^2 /NDF: 12105100464.0/110

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.429+/-0.000 χ^2/NDF : 4036801.9/33

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.419+/-0.000 χ^2/NDF : 3725416.4/36

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

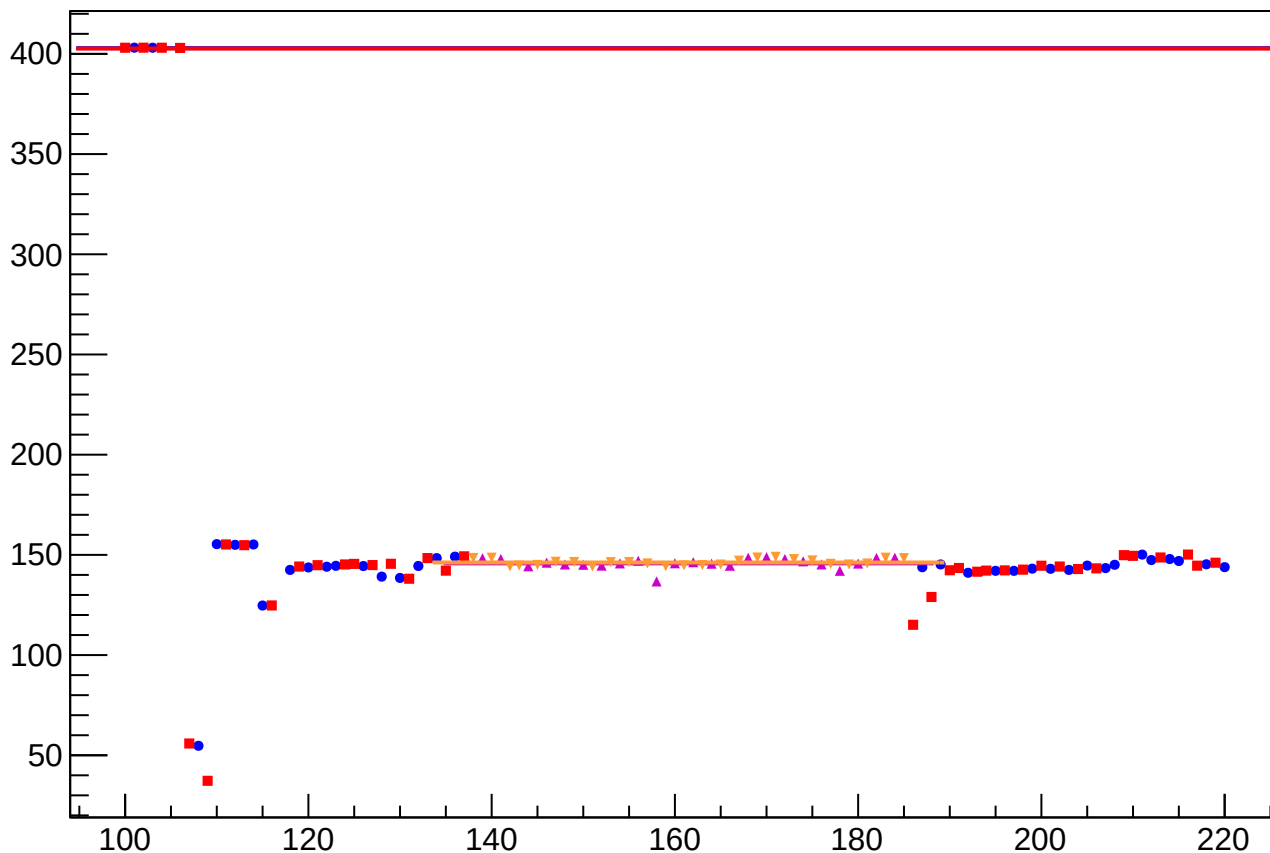
Right: 0.424+/-0.000 χ^2/NDF : 7771267.9/70

In: 0.439+/-0.000 χ^2/NDF :5177554.7/56

Out: 0.431+/-0.000 χ^2/NDF :5244232.2/61

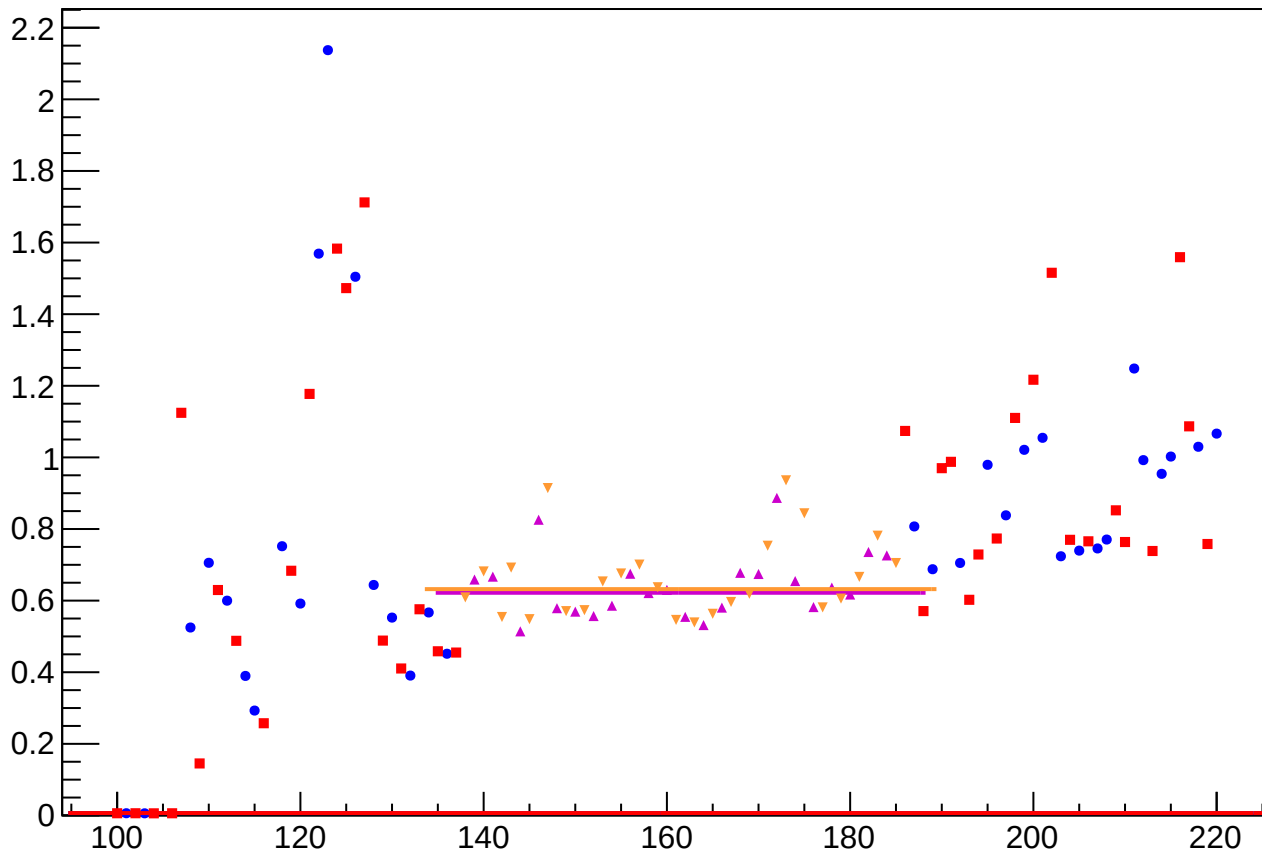
All: 0.435+/-0.000 χ^2/NDF : 10433150.4/118

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.849+/-0.000	χ^2/NDF : 1969881884559.1/33	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.758+/-0.000	χ^2/NDF : 6182840481358.7
Right Out: 402.678+/-0.000	χ^2/NDF : 4212475367769.0/36	In: 402.556+/-0.000	χ^2/NDF : 4317932277445.0/50
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.417+/-0.000	χ^2/NDF : 6579630608133.7/60
		All: 402.482+/-0.000	χ^2/NDF : 108978849782.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 28680746.9/33

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 30507750.8/36

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

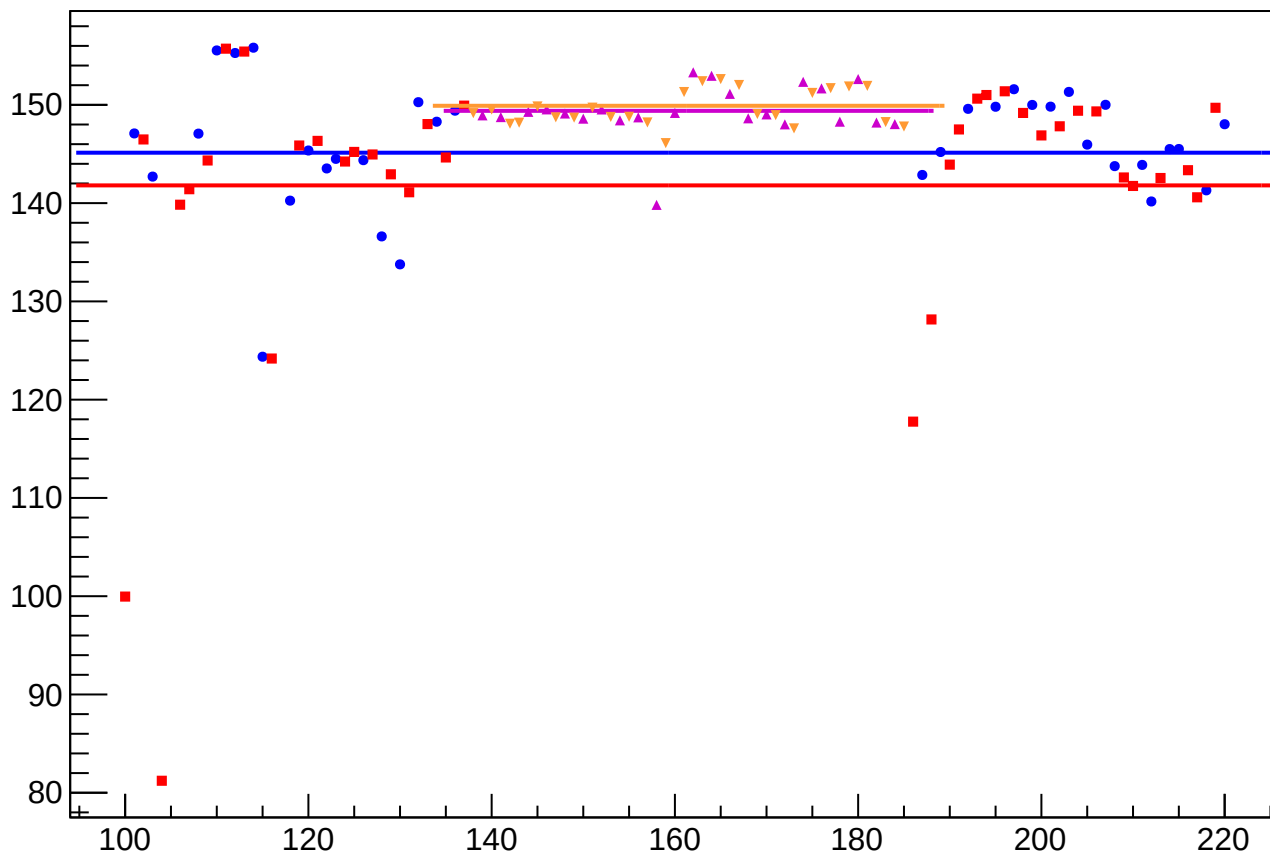
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 59188498.9/70

In: 0.007 $\pm$ 0.000 χ^2 /NDF:55980122.1/56

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:59273579.1/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 115253860.7/118

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.131+/-0.000 χ^2/NDF : 1385556142.4/33

Left Out: 149.906+/-0.000 χ^2/NDF : 163261802.4/24

Right Out: 141.804+/-0.000 χ^2/NDF : 3337613774.1/36

Left In: 149.391+/-0.000 χ^2/NDF : 437129920.4/22

Left: 149.657+/-0.000 χ^2/NDF : 606930259.3/47

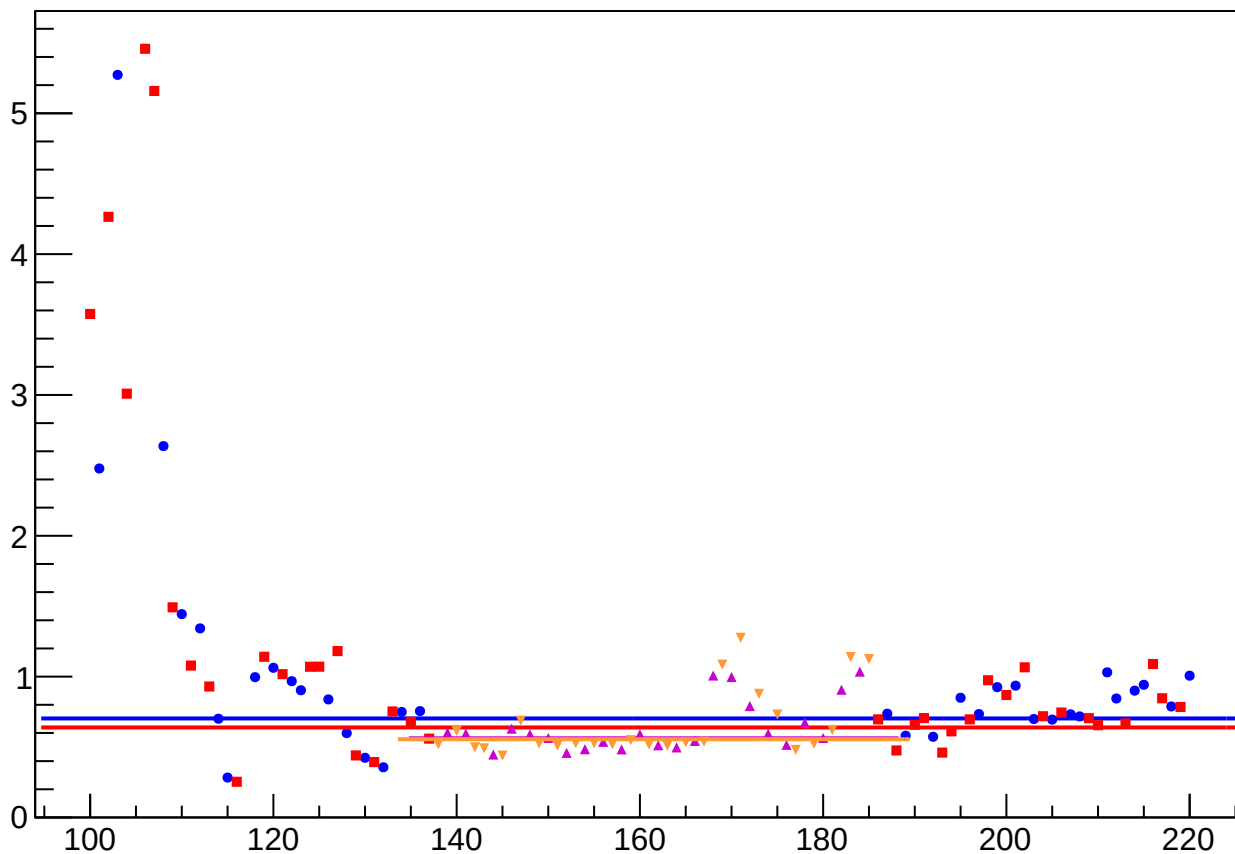
Right: 143.293+/-0.000 χ^2/NDF : 4890355592.6/70

In: 147.836+/-0.000 χ^2/NDF : 2137872966.0/56

Out: 146.676+/-0.000 χ^2/NDF : 4833375897.5/61

All: 147.221+/-0.000 χ^2/NDF : 7024738249.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.703 $\pm$ 0.000 χ^2 /NDF: 4501489.3/33

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.639 $\pm$ 0.000 χ^2 /NDF: 5968361.0/36

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

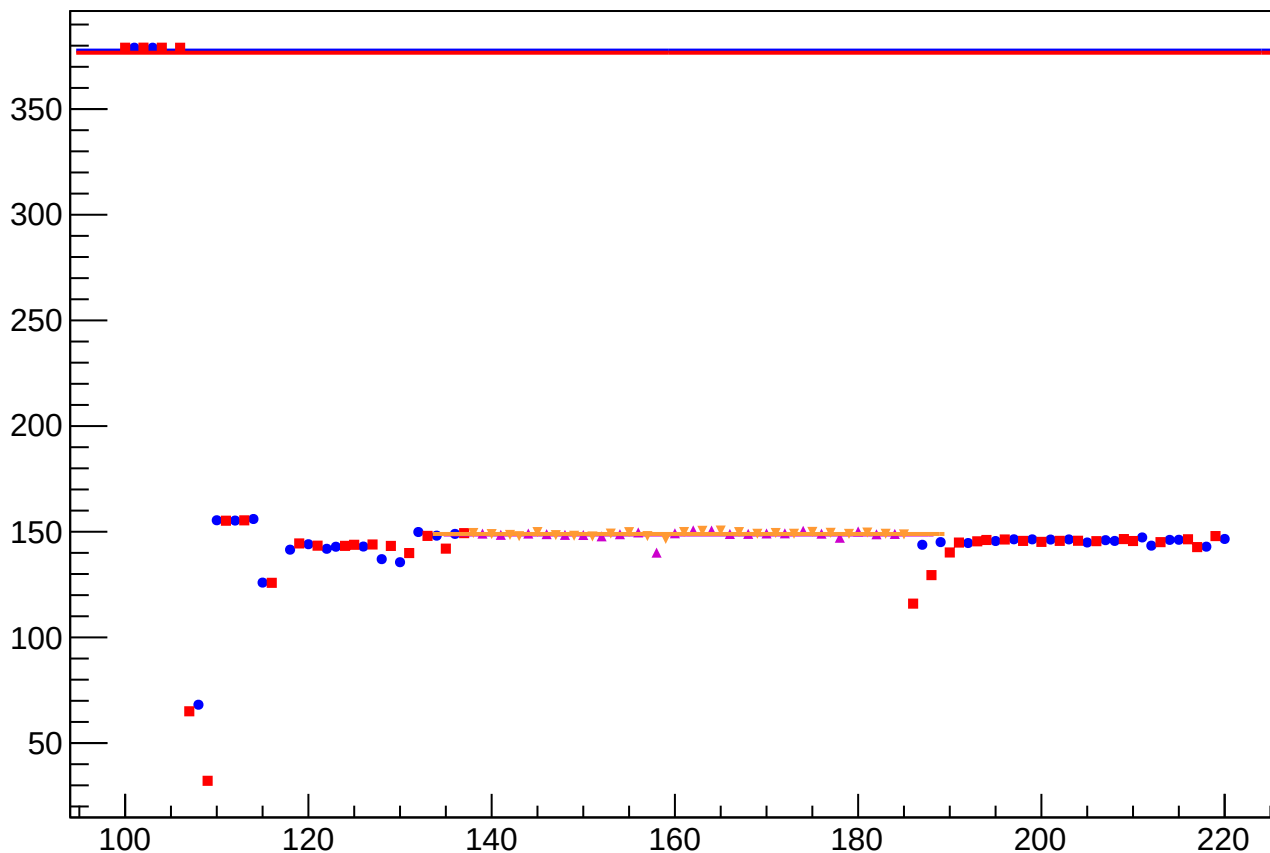
Right: 0.668 $\pm$ 0.000 χ^2 /NDF: 10594163.2/70

In: 0.614 $\pm$ 0.000 χ^2 /NDF:6502952.2/56

Out: 0.589 $\pm$ 0.000 χ^2 /NDF:8024888.1/61

All: 0.600 $\pm$ 0.000 χ^2 /NDF: 14576851.0/118

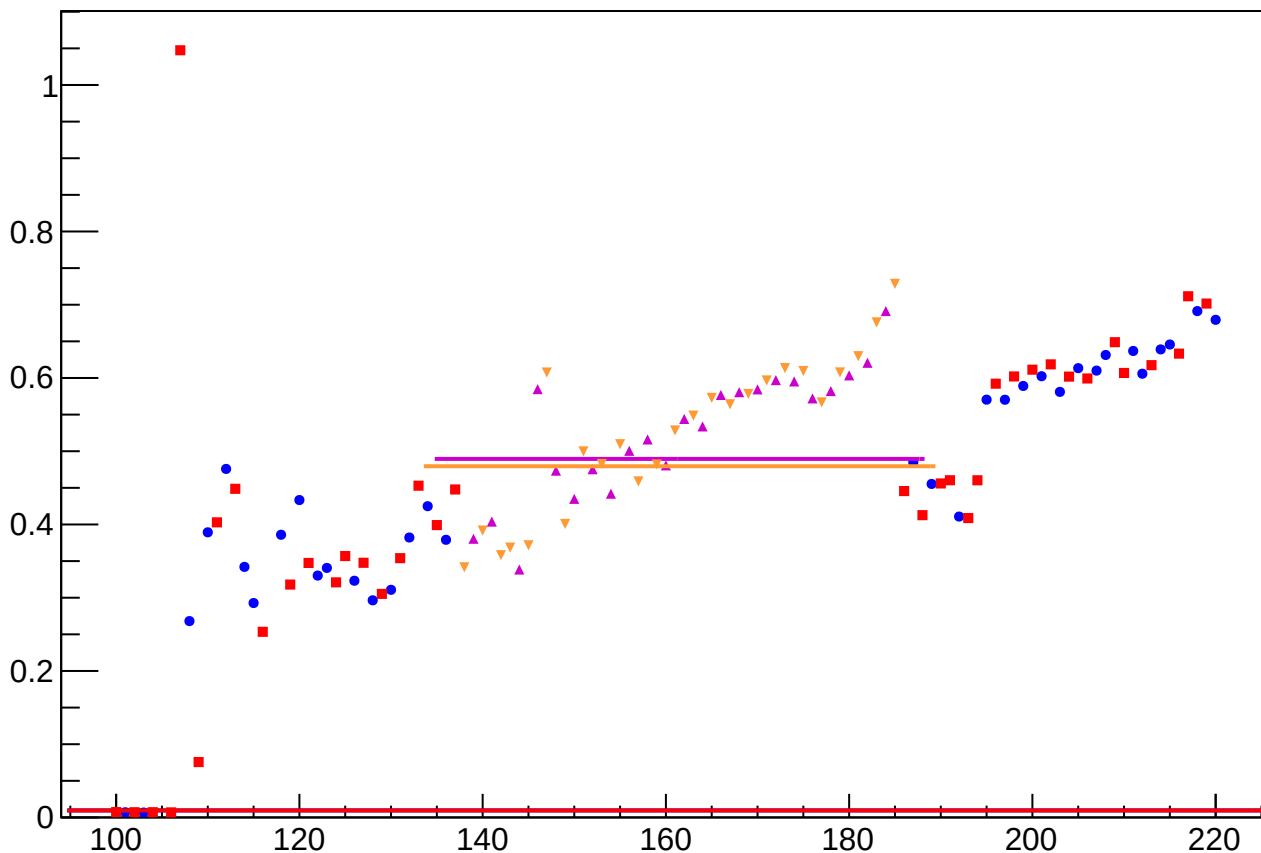
yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.672 $\pm$ 0.000 χ^2 /NDF: 4401807381662.9/33
 Left Out: 148.946 $\pm$ 0.000 χ^2 /NDF: 63974844.7/24
 Right Out: 376.666 $\pm$ 0.000 χ^2 /NDF: 10506024307883.4/36
 Left In: 148.683 $\pm$ 0.000 χ^2 /NDF: 253848207.3/22

Left: 148.820 $\pm$ 0.000 χ^2 /NDF: 320306424.2/47
 Right: 377.136 $\pm$ 0.000 χ^2 /NDF: 14915019027291.0
 In: 376.496 $\pm$ 0.000 χ^2 /NDF: 7996790719366.4/50
 Out: 375.552 $\pm$ 0.000 χ^2 /NDF: 14369063689375.1
 All: 375.993 $\pm$ 0.000 χ^2 /NDF: 223722219396

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 32926108.8/33

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.010+/-0.000 χ^2/NDF : 33045593.5/36

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

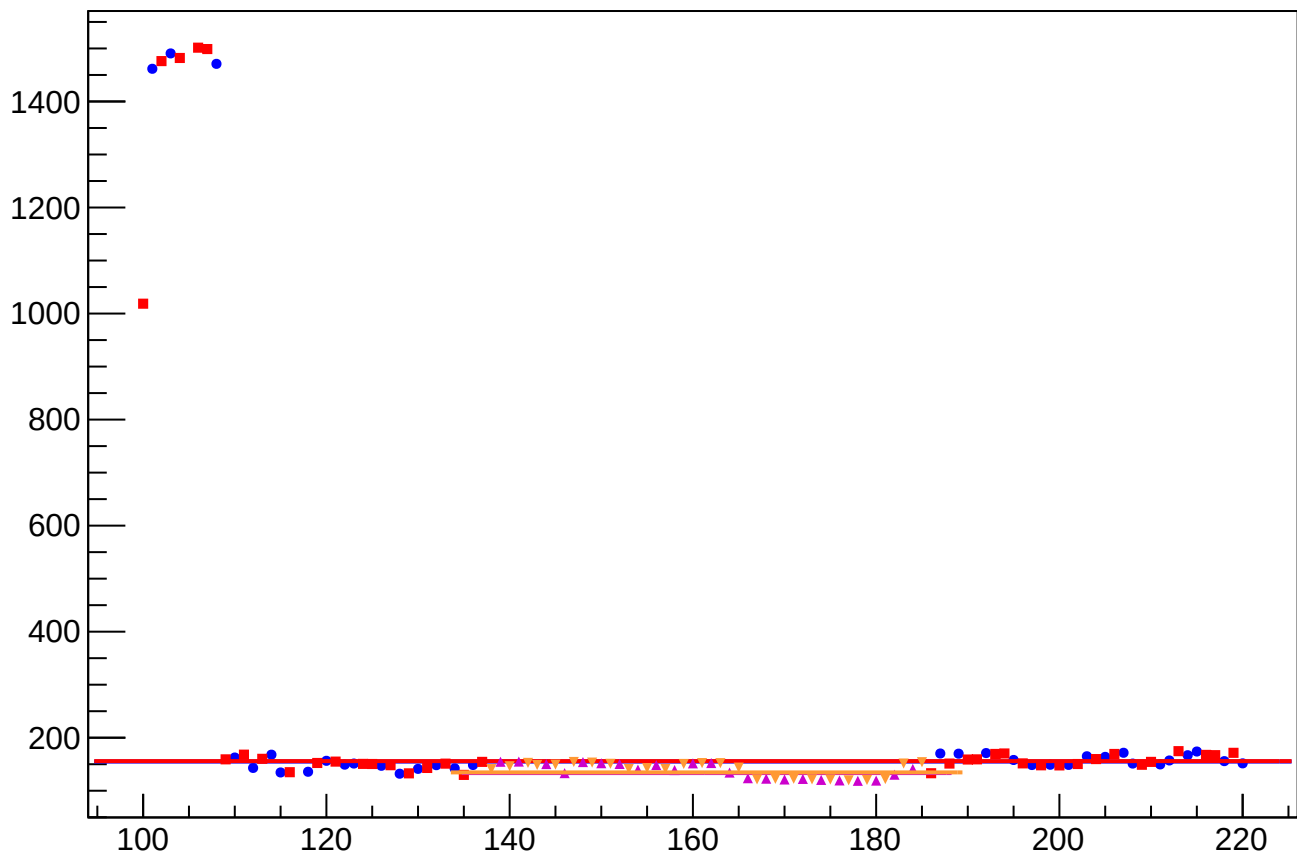
Right: 0.010+/-0.000 χ^2/NDF : 65971765.1/70

In: 0.012+/-0.000 χ^2/NDF :65593549.7/56

Out: 0.012+/-0.000 χ^2/NDF :67467269.5/61

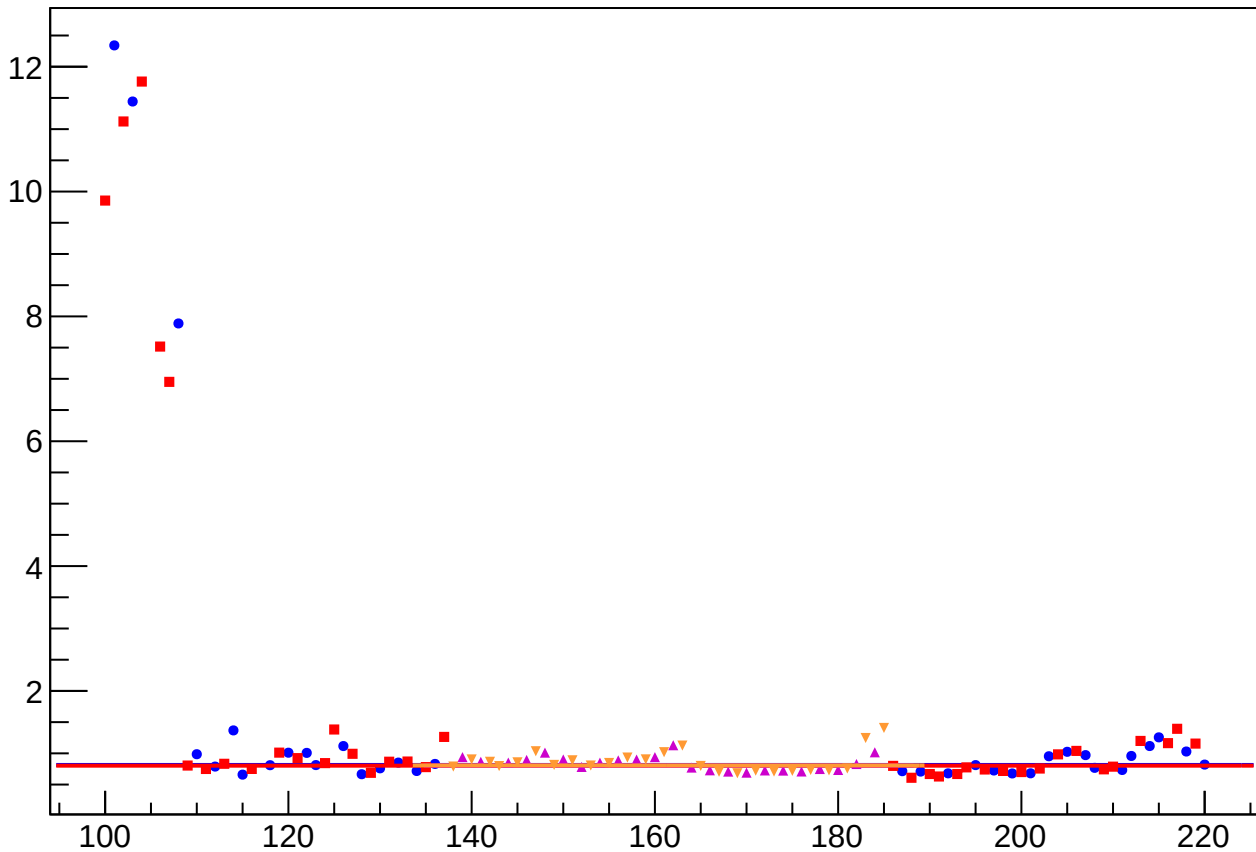
All: 0.012+/-0.000 χ^2/NDF : 133061581.7/118

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.029+/-0.000	χ^2/NDF : 26175533330.5/33	Left: 133.958+/-0.000	χ^2/NDF : 8759337937.7/47
Left Out: 134.585+/-0.000	χ^2/NDF : 4387324151.1/24	Right: 155.456+/-0.000	χ^2/NDF : 61617843373.4/70
Right Out: 155.865+/-0.000	χ^2/NDF : 35434719193.9/36	In: 143.761+/-0.000	χ^2/NDF : 35737774013.4/56
Left In: 133.309+/-0.000	χ^2/NDF : 4353039408.6/22	Out: 144.859+/-0.000	χ^2/NDF : 45012370558.4/61
		All: 144.320+/-0.000	χ^2/NDF : 80777297717.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.814+/-0.000 χ^2/NDF : 3363884.5/33

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.803+/-0.000 χ^2/NDF : 3933074.0/36

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

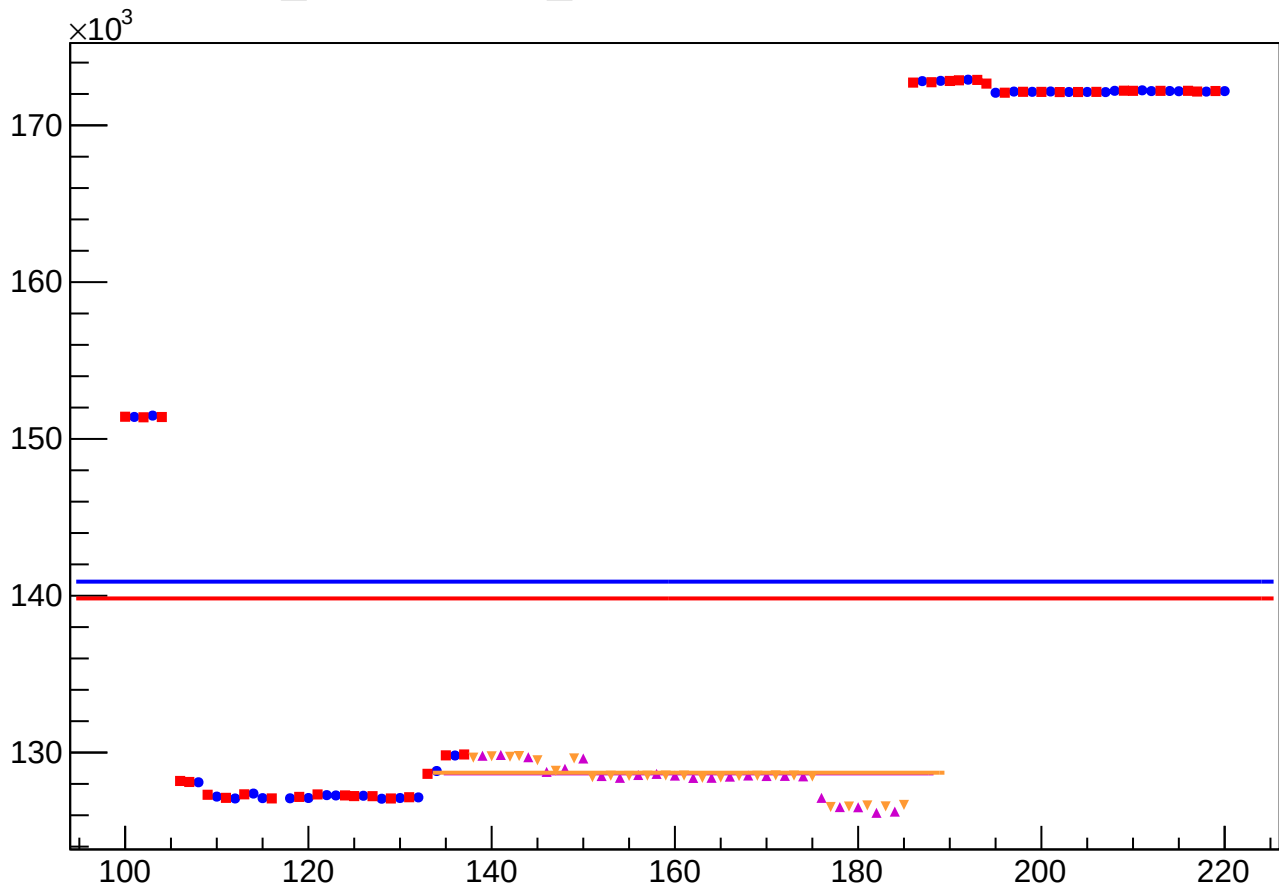
Right: 0.808+/-0.000 χ^2/NDF : 7299744.5/70

In: 0.809+/-0.000 χ^2/NDF : 3845555.2/56

Out: 0.805+/-0.000 χ^2/NDF : 4637620.1/61

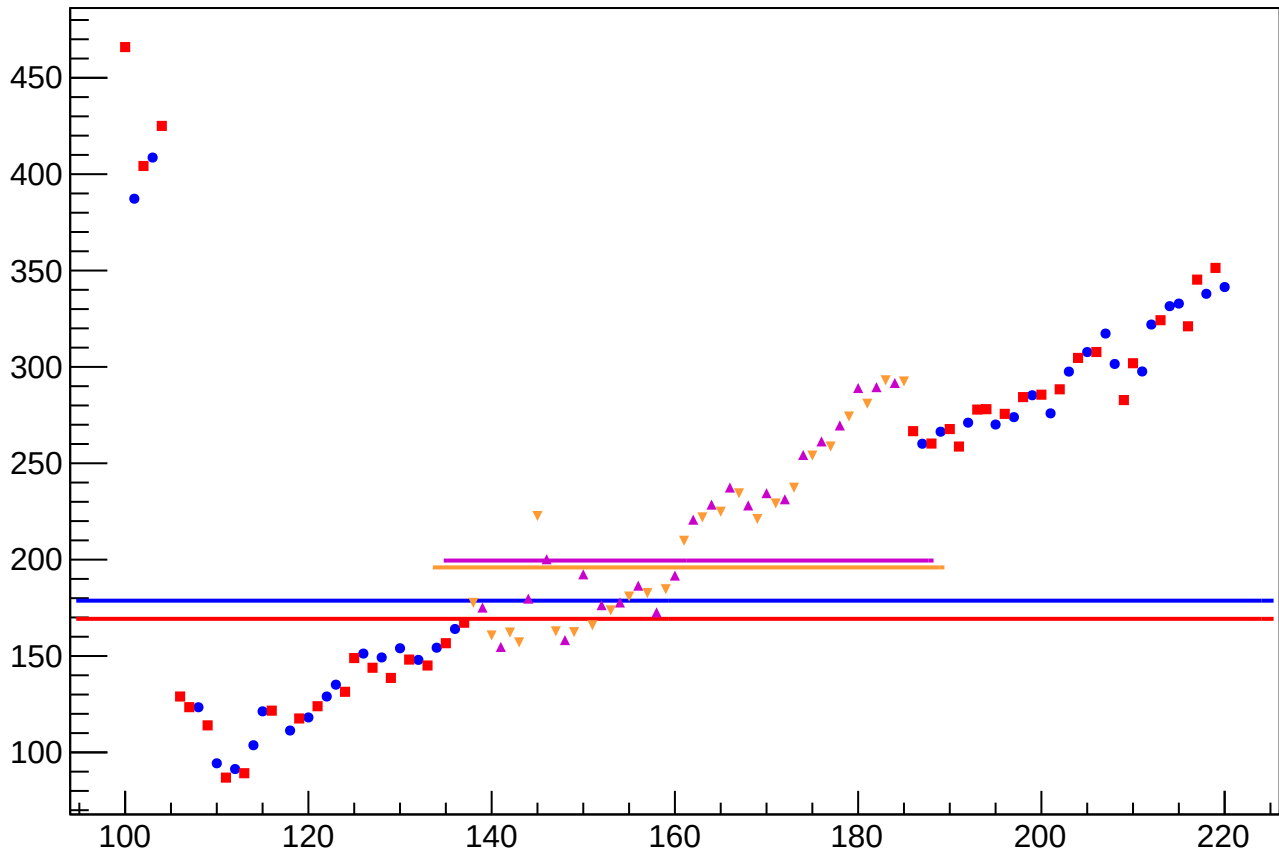
All: 0.807+/-0.000 χ^2/NDF : 8484027.9/118

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140899.259 $\pm$ 0.046	χ^2 /NDF: 195115851645.5/33	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 140328.899 $\pm$ 0.031	χ^2 /NDF: 407458507872
Right Out: 139827.962 $\pm$ 0.043	χ^2 /NDF: 212053912440.3/36	In: 135149.551 $\pm$ 0.033	χ^2 /NDF: 228678129963.3
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134708.562 $\pm$ 0.032	χ^2 /NDF: 243015852211.
		All: 134916.729 $\pm$ 0.023	χ^2 /NDF: 471785554

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 178.714 $\pm$ 0.033 χ^2 /NDF: 7132046.5/33

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 169.286 $\pm$ 0.030 χ^2 /NDF: 7628770.9/36

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

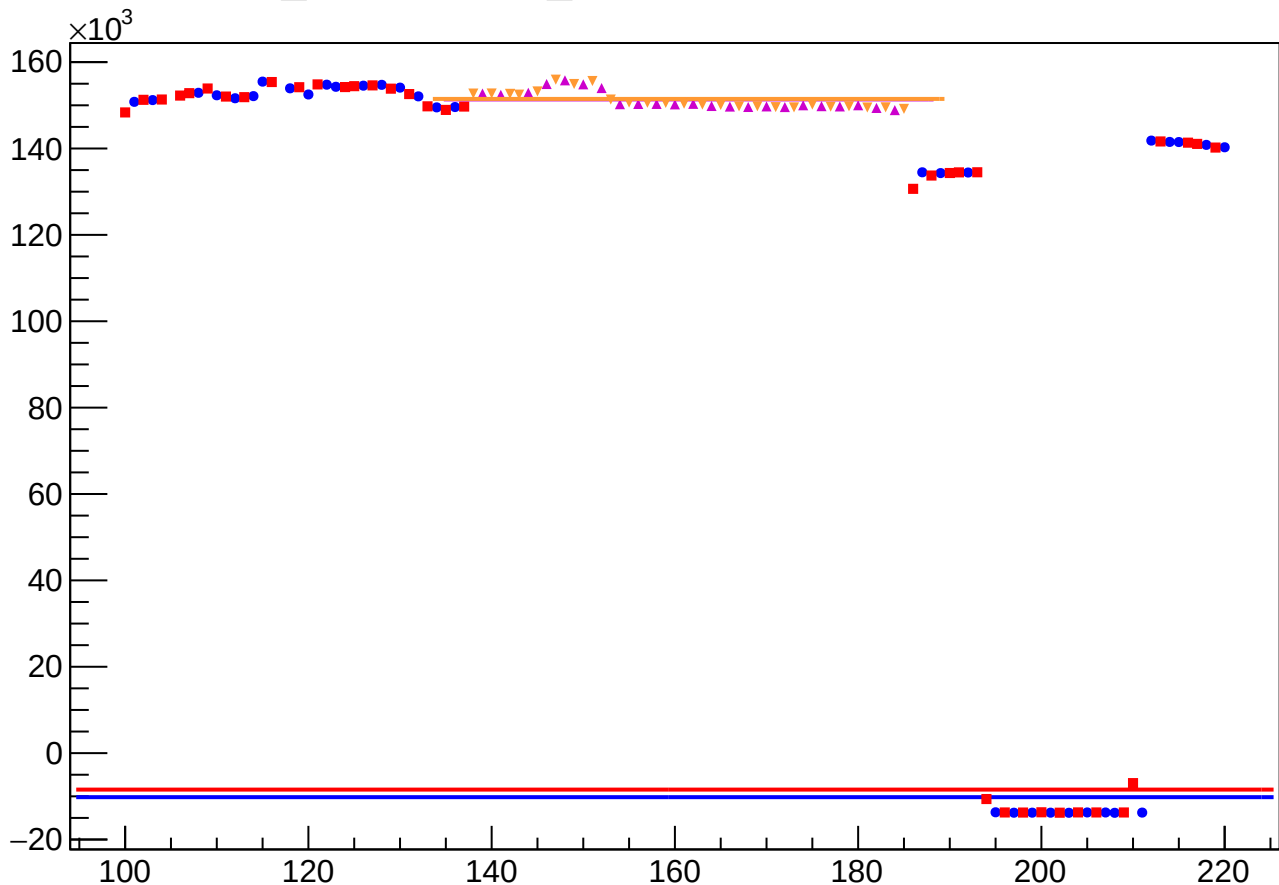
Right: 173.694 $\pm$ 0.022 χ^2 /NDF: 14805540.0/70

In: 188.501 $\pm$ 0.024 χ^2 /NDF:8499958.6/56

Out: 181.574 $\pm$ 0.022 χ^2 /NDF:9297631.9/61

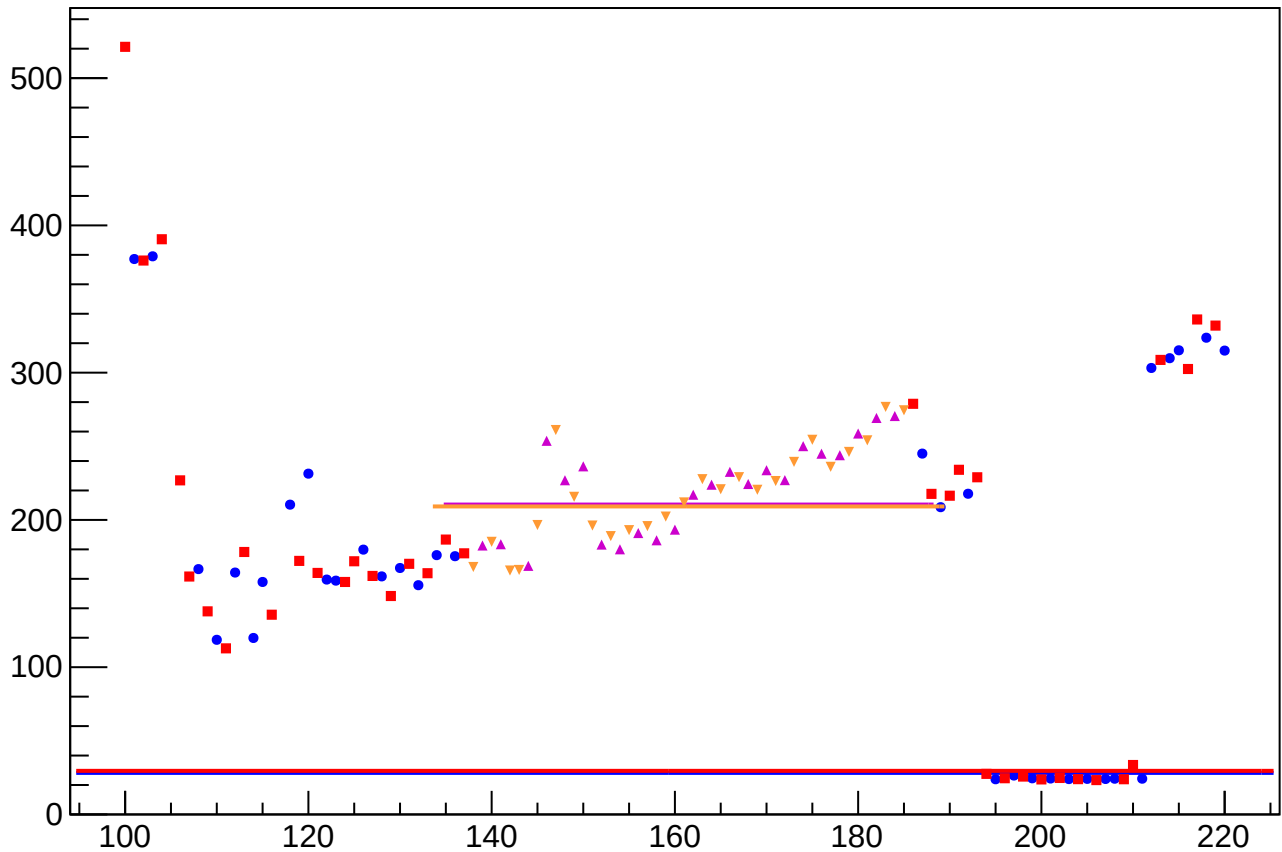
All: 184.844 $\pm$ 0.016 χ^2 /NDF: 17842778.2/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10194.382+/-0.009	$\chi^2/\text{NDF}: 6742798365676.4/33$	Left: 151423.440+/-0.036	$\chi^2/\text{NDF}: 2913216467.1/4$
Left Out: 151480.339+/-0.049	$\chi^2/\text{NDF}: 1483692735.3/24$	Right: -9396.388+/-0.007	$\chi^2/\text{NDF}: 1458511954397$
Right Out: -8441.955+/-0.010	$\chi^2/\text{NDF}: 7825736925962.9/36$	In: -5164.062+/-0.009	$\chi^2/\text{NDF}: 16382012145498.2$
Left In: 151362.440+/-0.051	$\chi^2/\text{NDF}: 1426782789.9/22$	Out: -2112.817+/-0.010	$\chi^2/\text{NDF}: 17863290921293$
		All: -3768.009+/-0.007	$\chi^2/\text{NDF}: 3429744329$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.231+/-0.006 χ^2/NDF : 17669917.4/33

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 29.614+/-0.007 χ^2/NDF : 18462619.3/36

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

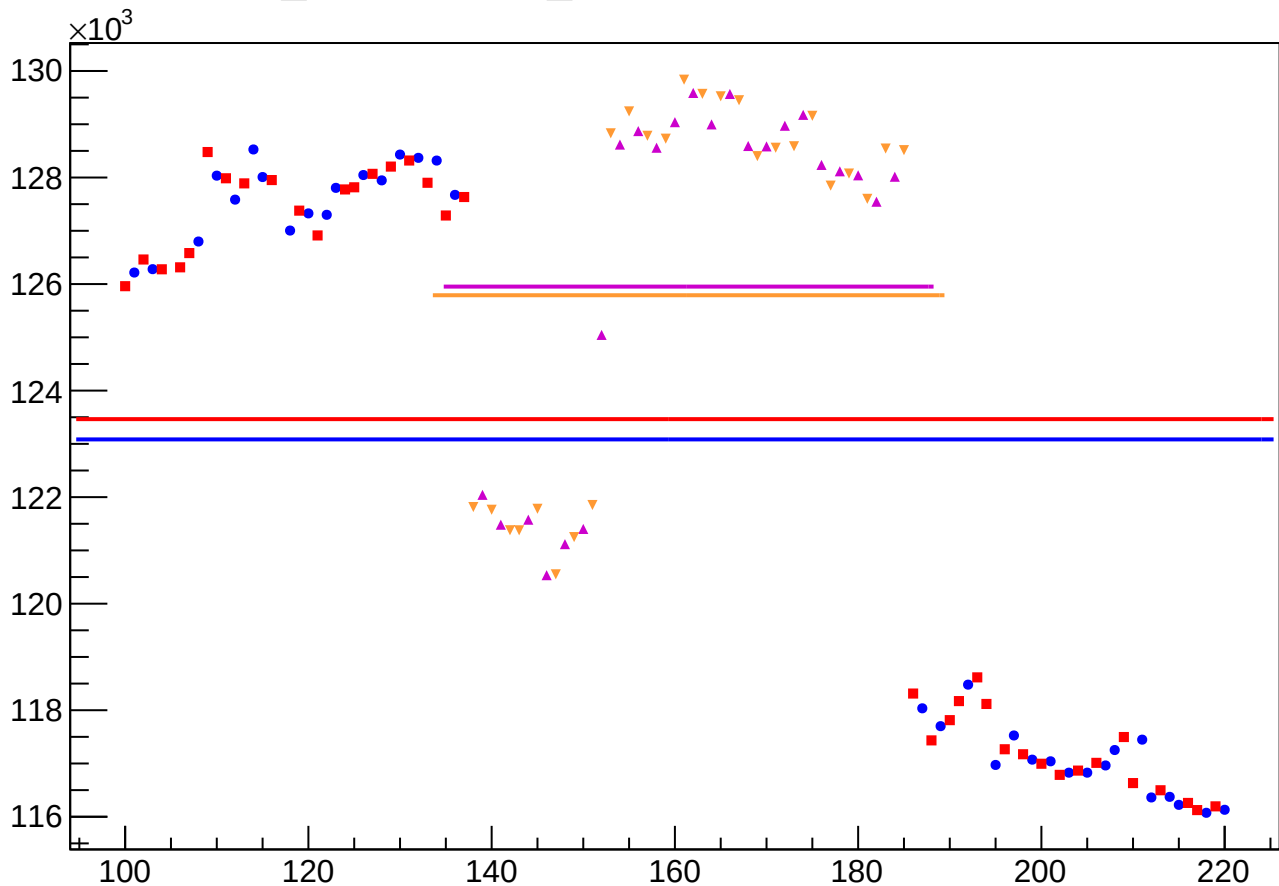
Right: 28.861+/-0.005 χ^2/NDF : 36153209.0/70

In: 33.904+/-0.006 χ^2/NDF : 42870061.0/56

Out: 36.720+/-0.007 χ^2/NDF : 44471749.6/61

All: 35.192+/-0.005 χ^2/NDF : 87430630.8/118

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123083.745 $\pm$ 0.044

χ^2/NDF : 14673289100.2/33

Left Out: 125790.126 $\pm$ 0.044

χ^2/NDF : 6744310079.8/24

Right Out: 123464.348 $\pm$ 0.042

χ^2/NDF : 15284952101.3/36

Left In: 125952.447 $\pm$ 0.045

χ^2/NDF : 5841800367.5/22

Left: 125870.001 $\pm$ 0.031

χ^2/NDF : 12592819321.6/33

Right: 123282.257 $\pm$ 0.030

χ^2/NDF : 29997382057.8/24

In: 124494.548 $\pm$ 0.031

χ^2/NDF : 22611724776.1/5

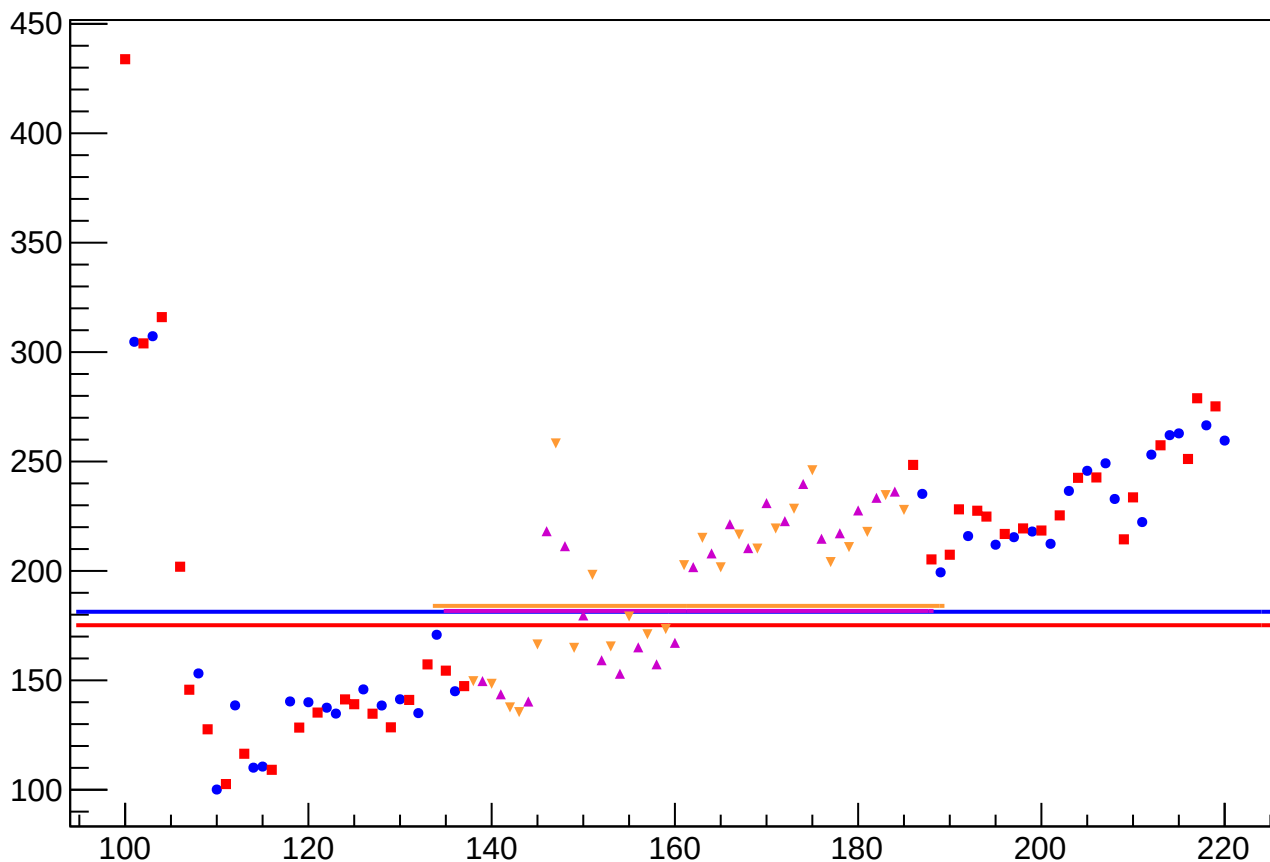
Out: 124576.387 $\pm$ 0.030

χ^2/NDF : 23489946939.1/5

All: 124536.691 $\pm$ 0.022

χ^2/NDF : 461051874.1/36

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 181.336+/-0.031 χ^2/NDF : 3082625.3/33

Left Out: 184.029+/-0.031 χ^2/NDF :1126592.5/24

Right Out: 175.186+/-0.030 χ^2/NDF : 3566313.3/36

Left In: 181.714+/-0.032 χ^2/NDF :1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

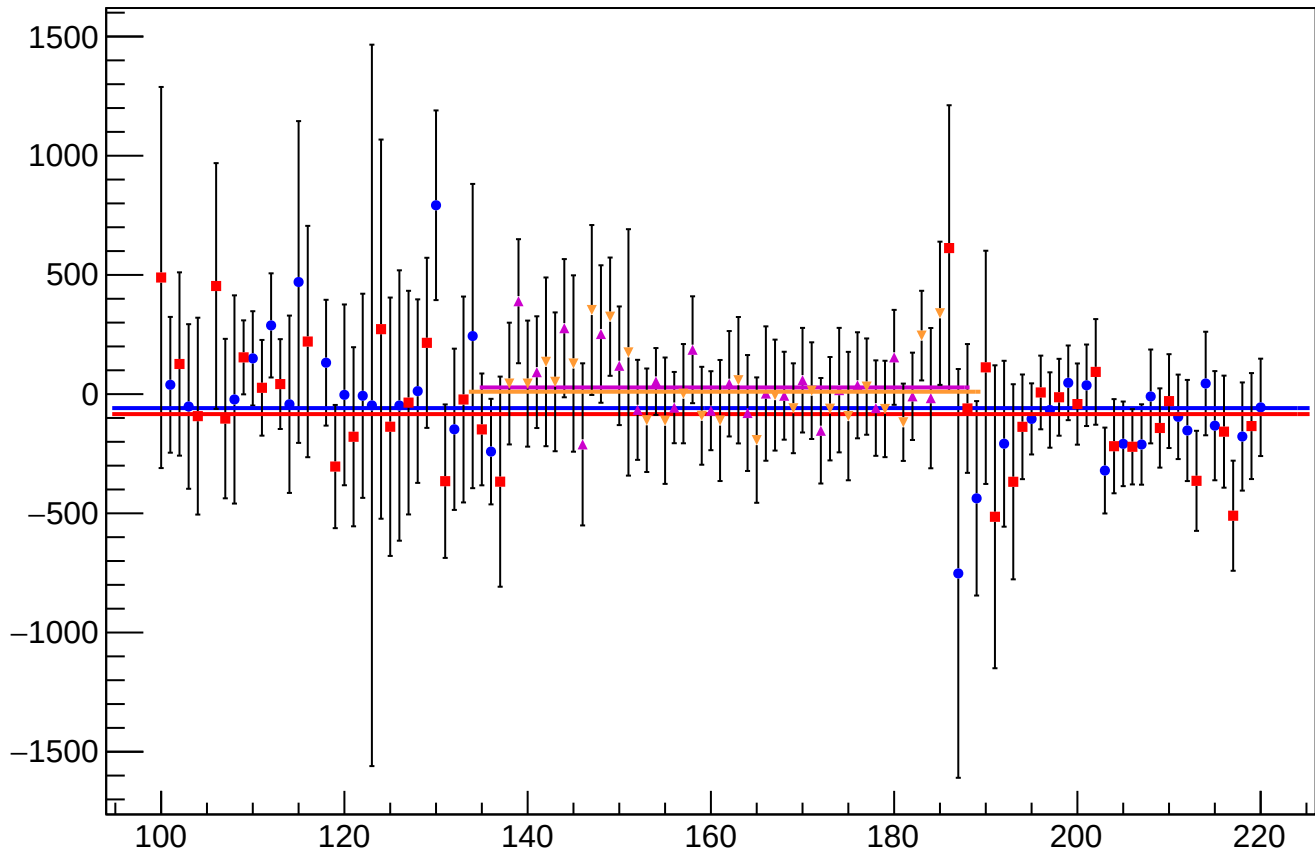
Right: 178.128+/-0.021 χ^2/NDF : 6669372.4/70

In: 181.522+/-0.022 χ^2/NDF :4198840.3/56

Out: 179.414+/-0.021 χ^2/NDF :4735137.1/61

All: 180.437+/-0.015 χ^2/NDF : 8938639.0/118

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -58.602 ± 41.037 χ^2/NDF : 17.6/33

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -83.794 ± 40.960 χ^2/NDF : 18.9/36

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

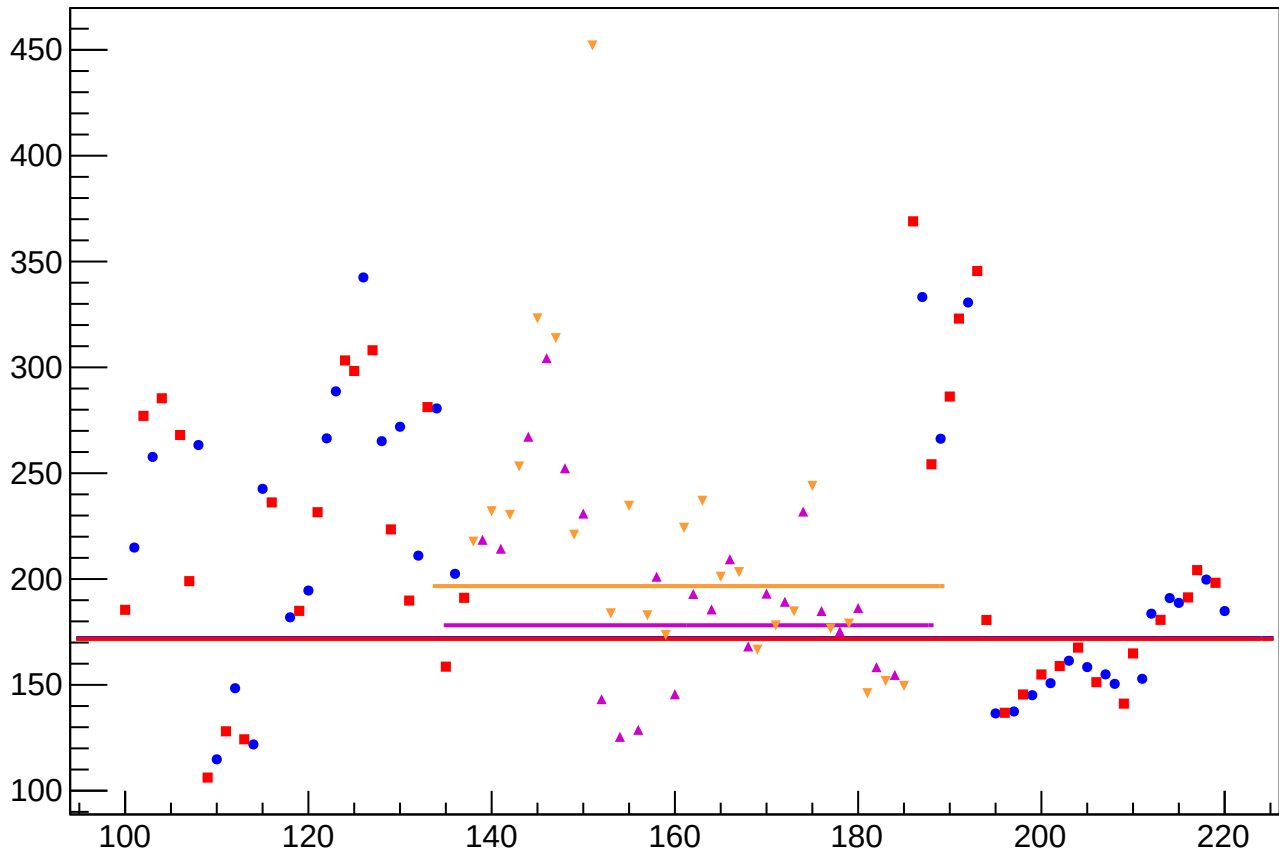
Right: -71.222 ± 28.990 χ^2/NDF : 36.7/70

In: -18.849 ± 30.190 χ^2/NDF : 26.6/56

Out: -43.749 ± 31.017 χ^2/NDF : 29.6/61

All: -30.963 ± 21.634 χ^2/NDF : 56.6/118

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.088 $\pm$ 0.029 χ^2 /NDF: 2218584.5/33

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 171.709 $\pm$ 0.029 χ^2 /NDF: 2936501.1/36

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

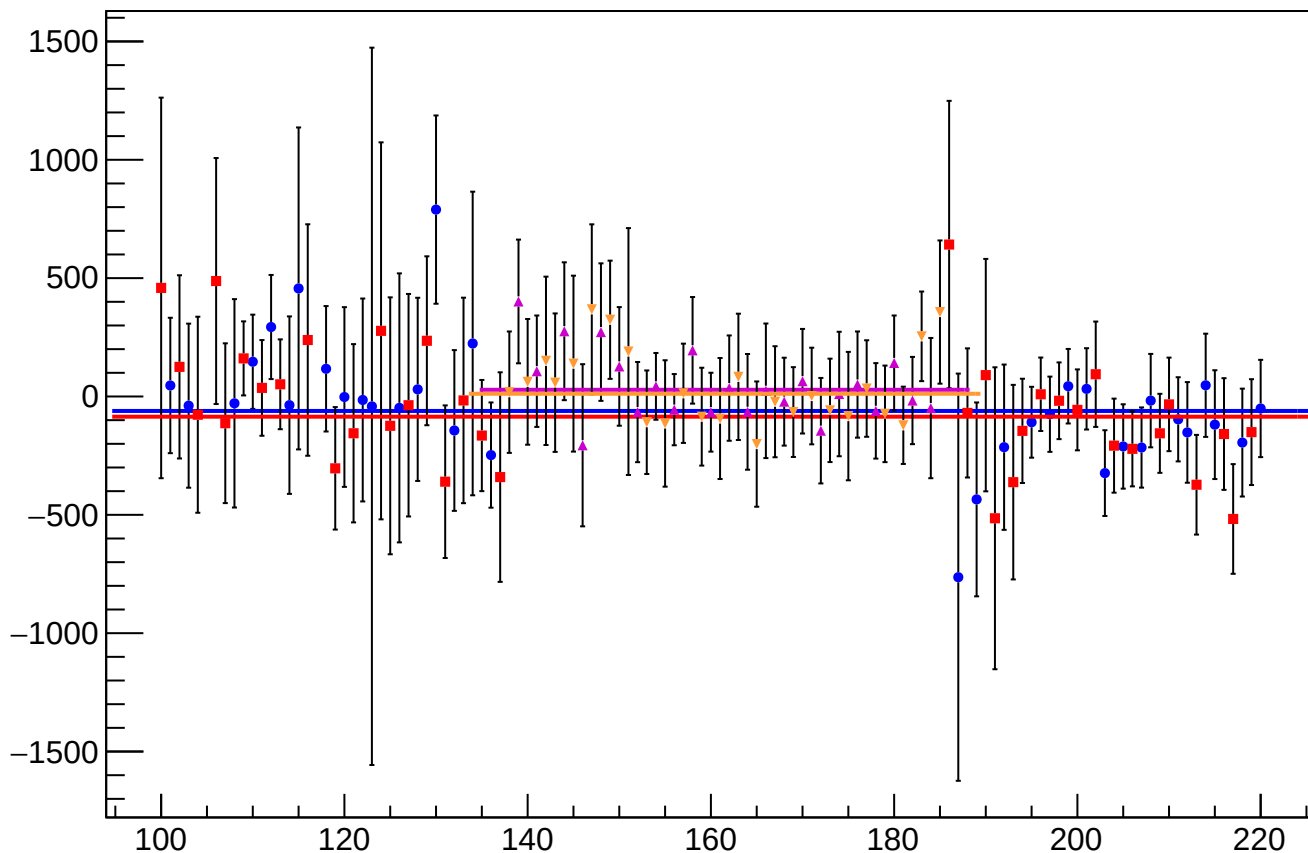
Right: 171.898 $\pm$ 0.020 χ^2 /NDF: 5155171.0/70

In: 174.876 $\pm$ 0.021 χ^2 /NDF:3857675.6/56

Out: 182.362 $\pm$ 0.022 χ^2 /NDF:5036346.4/61

All: 178.518 $\pm$ 0.015 χ^2 /NDF: 8953846.9/118

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -61.135 ± 41.224 χ^2/NDF : 17.6/33

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -85.331 ± 41.158 χ^2/NDF : 19.4/36

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

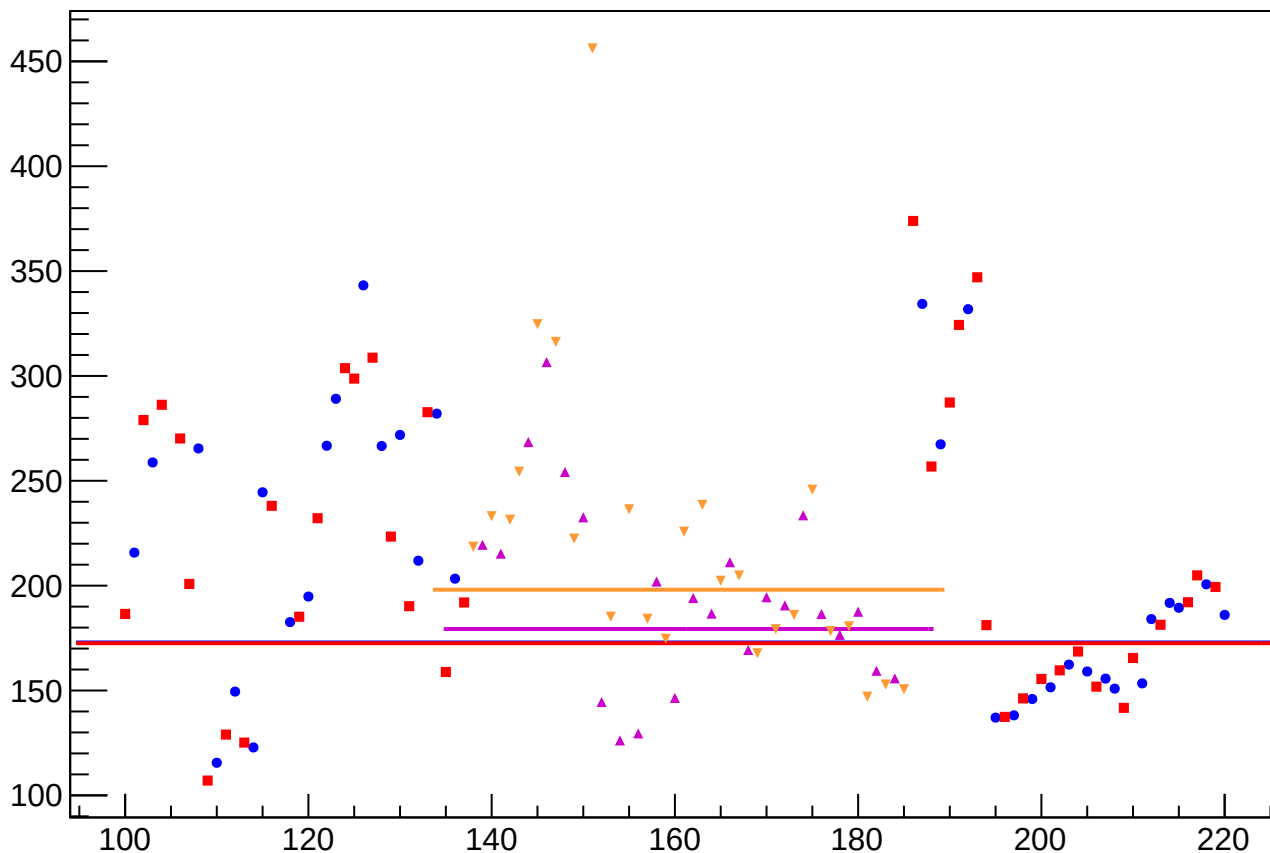
Right: -73.253 ± 29.126 χ^2/NDF : 37.2/70

In: -20.200 ± 30.355 χ^2/NDF : 26.9/56

Out: -44.134 ± 31.194 χ^2/NDF : 30.6/61

All: -31.841 ± 21.755 χ^2/NDF : 57.8/118

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.895 ± 0.029 χ^2/NDF : 2210081.9/33

Left Out: 198.059 ± 0.034 χ^2/NDF : 1778526.5/24

Right Out: 172.547 ± 0.029 χ^2/NDF : 2931805.8/36

Left In: 179.324 ± 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 ± 0.023 χ^2/NDF : 3560073.1/47

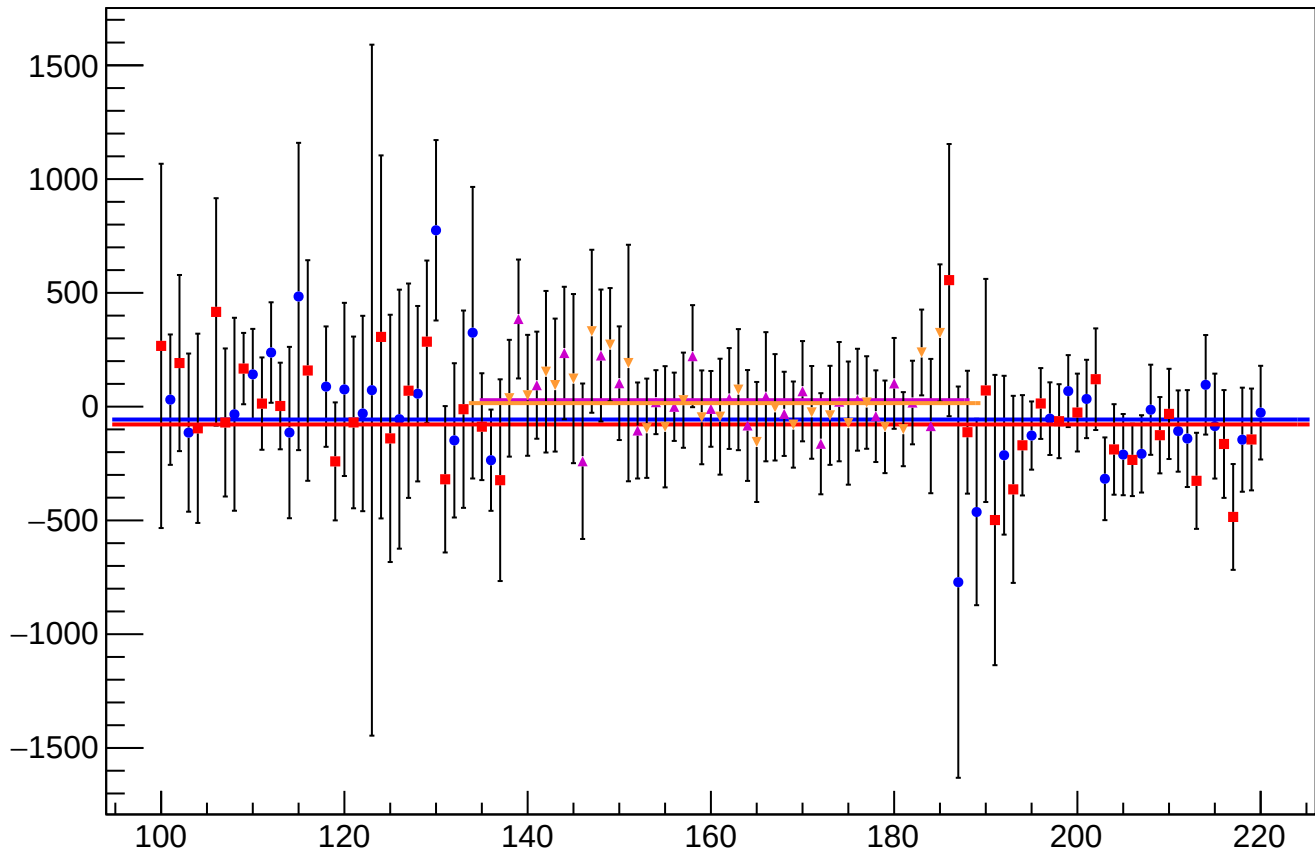
Right: 172.720 ± 0.021 χ^2/NDF : 5141959.2/70

In: 175.838 ± 0.021 χ^2/NDF : 3850615.9/56

Out: 183.403 ± 0.022 χ^2/NDF : 5037354.2/61

All: 179.518 ± 0.015 χ^2/NDF : 8948388.7/118

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -56.578 ± 41.309 $\chi^2/\text{NDF}: 17.1/33$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -78.251 ± 41.194 $\chi^2/\text{NDF}: 17.0/36$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

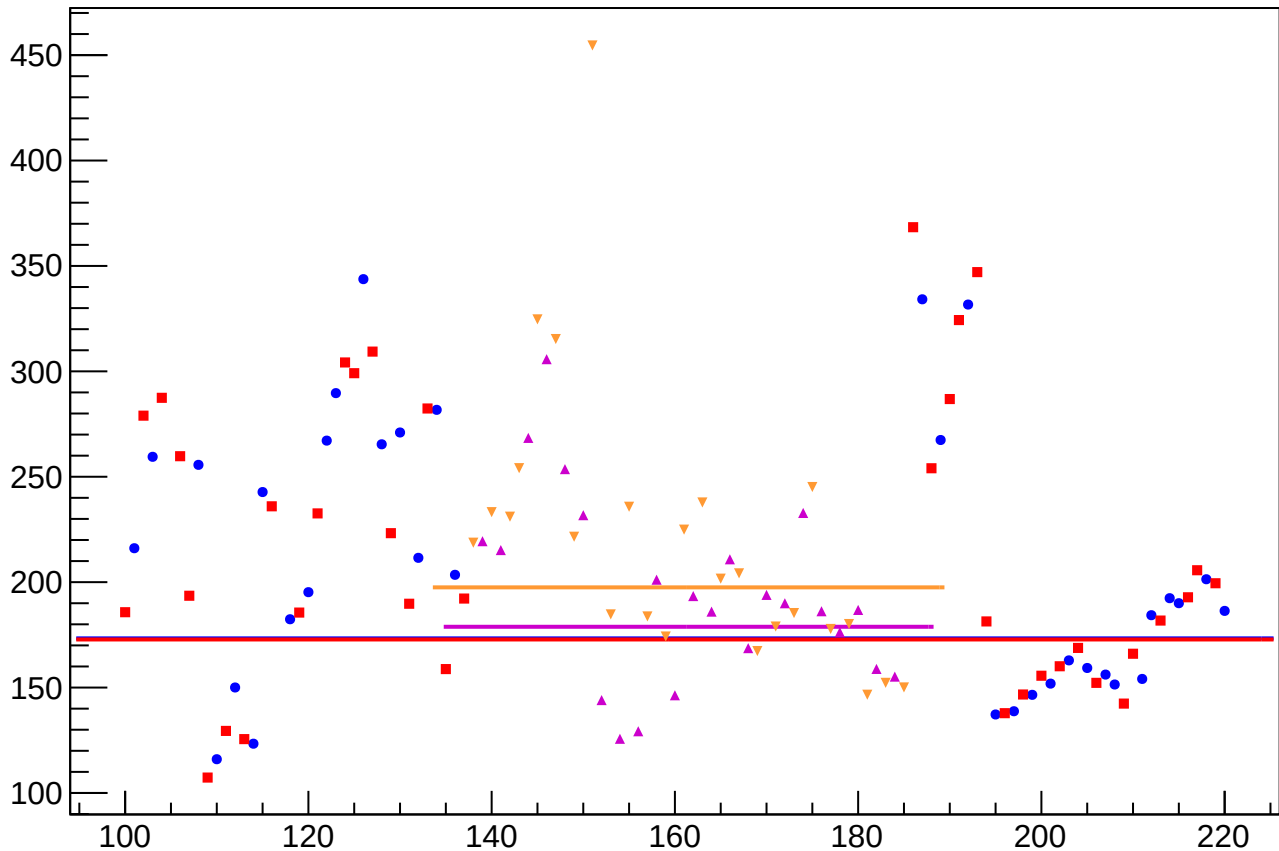
Right: -67.445 ± 29.169 $\chi^2/\text{NDF}: 34.2/70$

In: -17.531 ± 30.351 $\chi^2/\text{NDF}: 25.4/56$

Out: -38.222 ± 31.176 $\chi^2/\text{NDF}: 26.2/61$

All: -27.600 ± 21.747 $\chi^2/\text{NDF}: 51.8/118$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.330 ± 0.029 χ^2/NDF : 2177949.7/33

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 172.810 ± 0.029 χ^2/NDF : 2885404.0/36

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

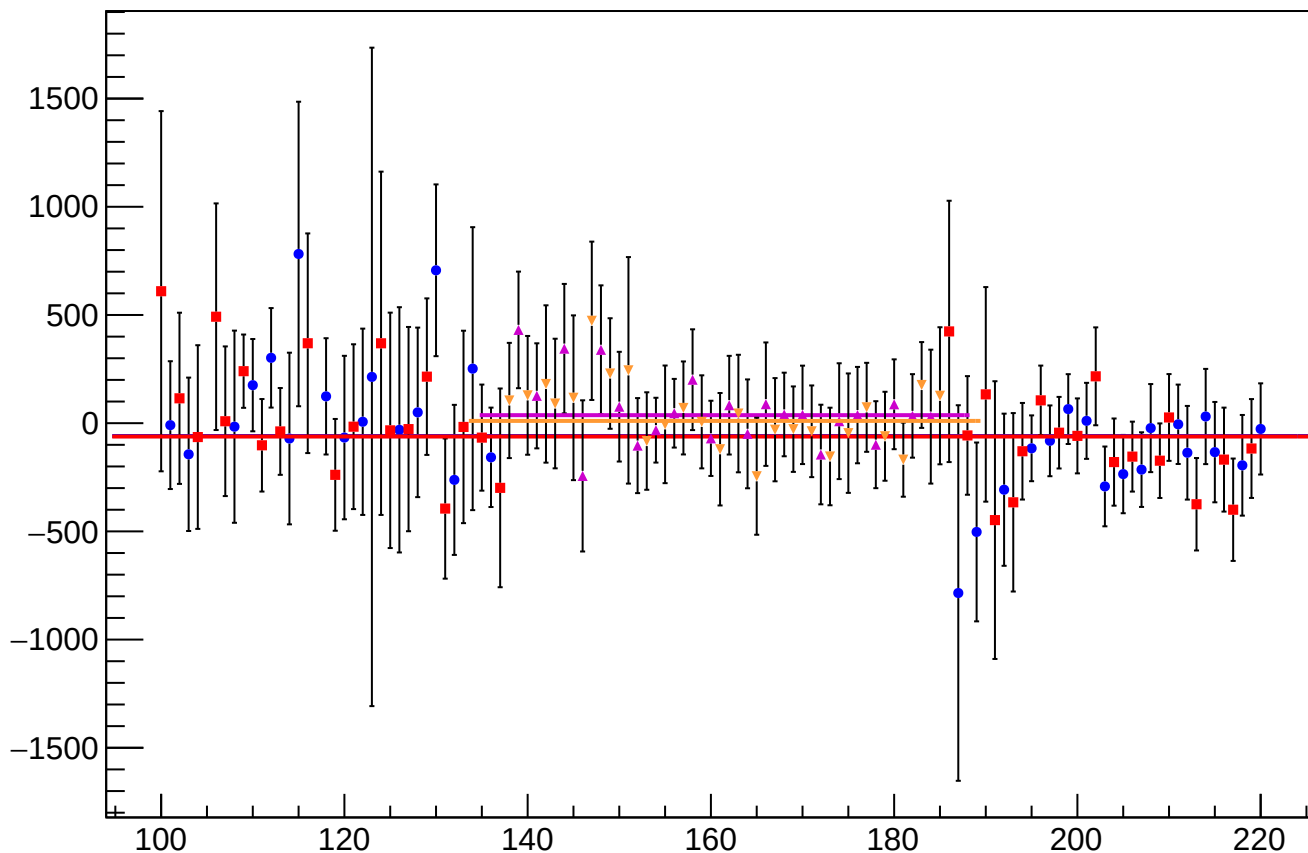
Right: 173.069 ± 0.021 χ^2/NDF : 5063512.9/70

In: 175.864 ± 0.021 χ^2/NDF : 3816562.1/56

Out: 183.370 ± 0.022 χ^2/NDF : 4977282.1/61

All: 179.517 ± 0.015 χ^2/NDF : 8853377.7/118

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -59.566 $\pm$ 42.186 χ^2/NDF : 17.8/33

Left Out: 10.534 $\pm$ 49.197 χ^2/NDF : 7.5/24

Right Out: -61.587 $\pm$ 42.246 χ^2/NDF : 18.8/36

Left In: 37.000 $\pm$ 46.358 χ^2/NDF : 7.9/22

Left: 24.553 $\pm$ 33.739 χ^2/NDF : 15.5/47

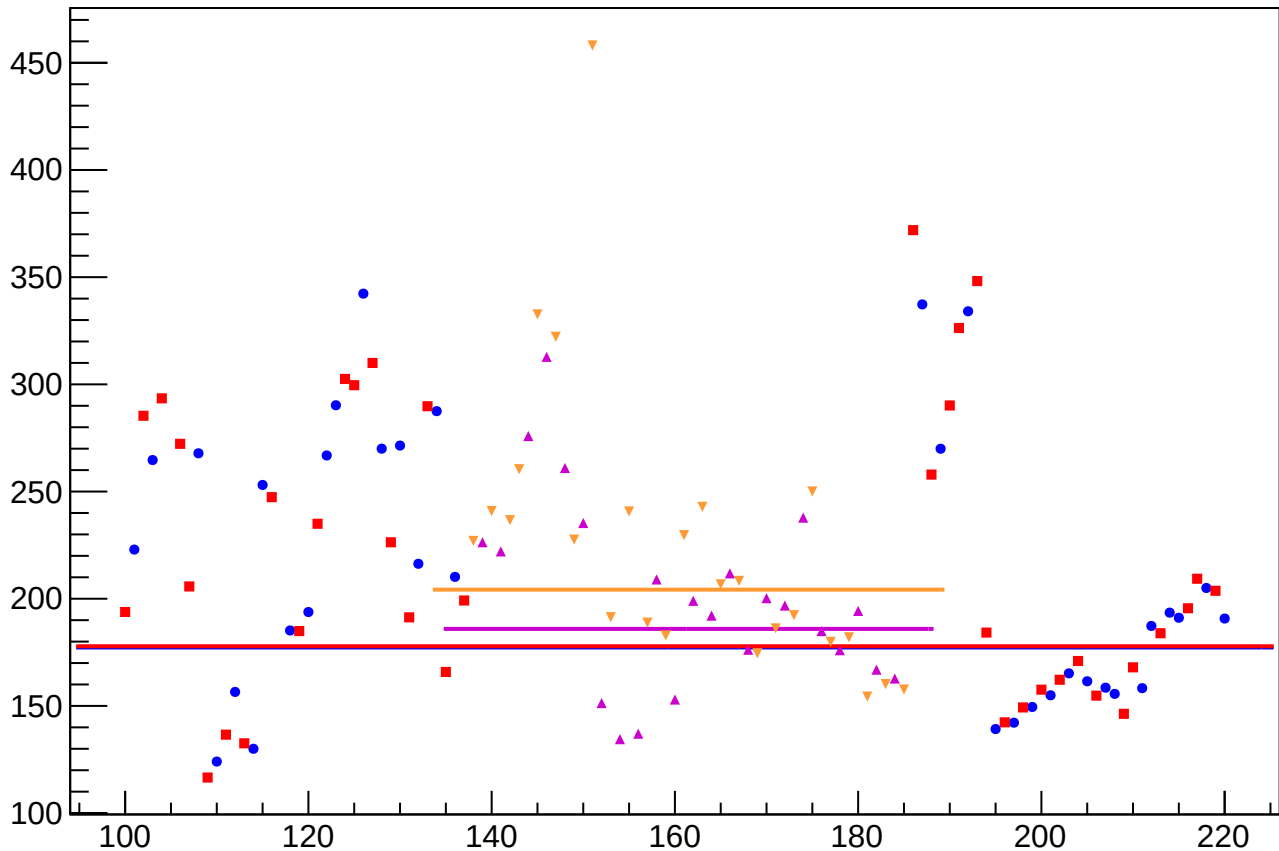
Right: -60.575 $\pm$ 29.851 χ^2/NDF : 36.6/70

In: -15.823 $\pm$ 31.201 χ^2/NDF : 28.0/56

Out: -30.977 $\pm$ 32.050 χ^2/NDF : 27.5/61

All: -23.196 $\pm$ 22.357 χ^2/NDF : 55.7/118

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.259 ± 0.030 χ^2/NDF : 2092135.3/33

Left Out: 204.236 ± 0.035 χ^2/NDF : 1675666.0/24

Right Out: 177.826 ± 0.030 χ^2/NDF : 2691450.4/36

Left In: 185.931 ± 0.033 χ^2/NDF : 1460065.0/22

Left: 194.540 ± 0.024 χ^2/NDF : 3282383.3/47

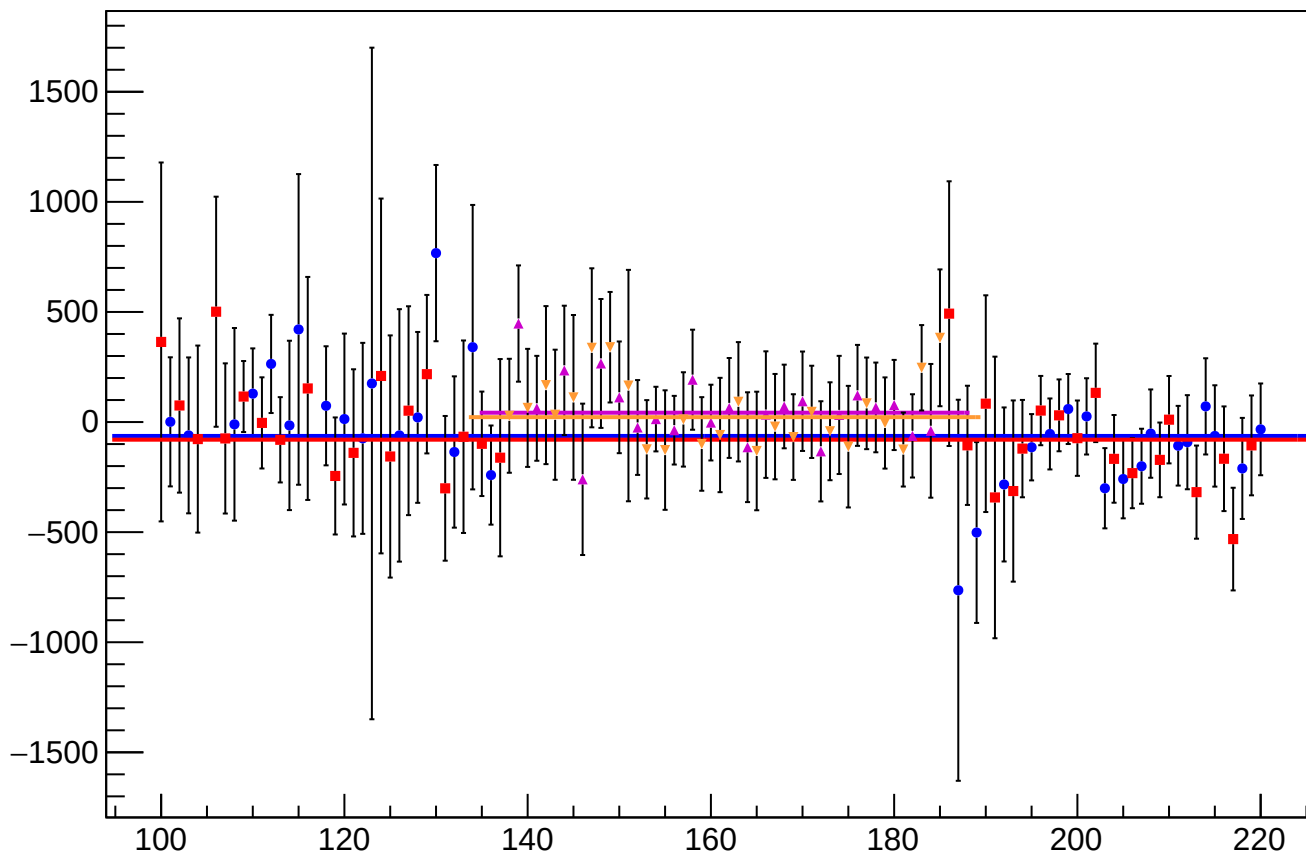
Right: 177.542 ± 0.021 χ^2/NDF : 4783765.9/70

In: 181.187 ± 0.022 χ^2/NDF : 3590489.2/56

Out: 189.035 ± 0.023 χ^2/NDF : 4698863.7/61

All: 185.006 ± 0.016 χ^2/NDF : 8350909.5/118

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -63.124 $\pm$ 41.667 χ^2/NDF : 16.9/33

Left Out: 22.189 $\pm$ 48.738 χ^2/NDF : 8.4/24

Right Out: -80.114 $\pm$ 41.616 χ^2/NDF : 15.7/36

Left In: 42.446 $\pm$ 45.861 χ^2/NDF : 6.7/22

Left: 32.933 $\pm$ 33.399 χ^2/NDF : 15.2/47

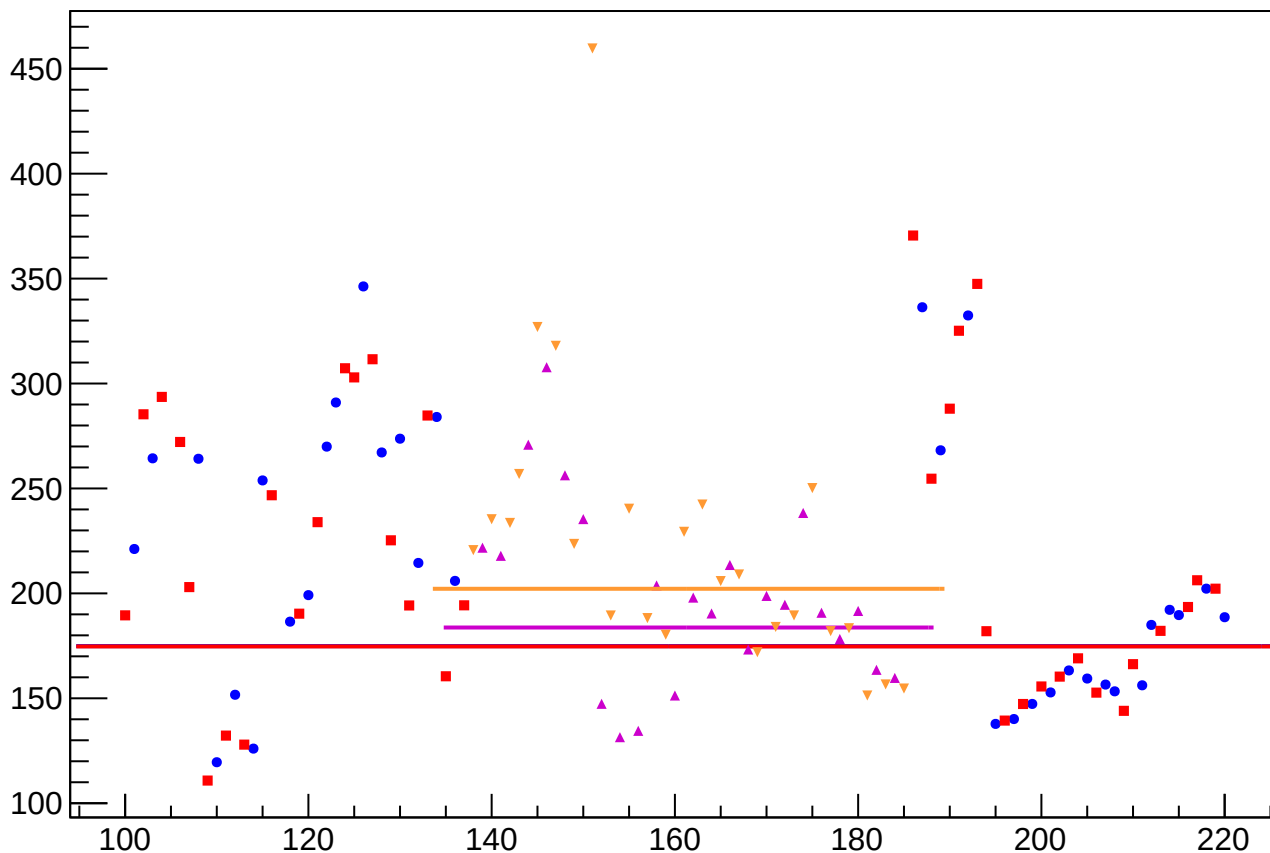
Right: -71.630 $\pm$ 29.445 χ^2/NDF : 32.7/70

In: -15.386 $\pm$ 30.839 χ^2/NDF : 26.6/56

Out: -36.977 $\pm$ 31.649 χ^2/NDF : 26.6/61

All: -25.902 $\pm$ 22.087 χ^2/NDF : 53.4/118

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.864 $\pm$ 0.029 χ^2 /NDF: 2178028.0/33

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 174.715 $\pm$ 0.029 χ^2 /NDF: 2859650.0/36

Left In: 183.732 $\pm$ 0.032 χ^2 /NDF:1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2 /NDF: 3344580.1/47

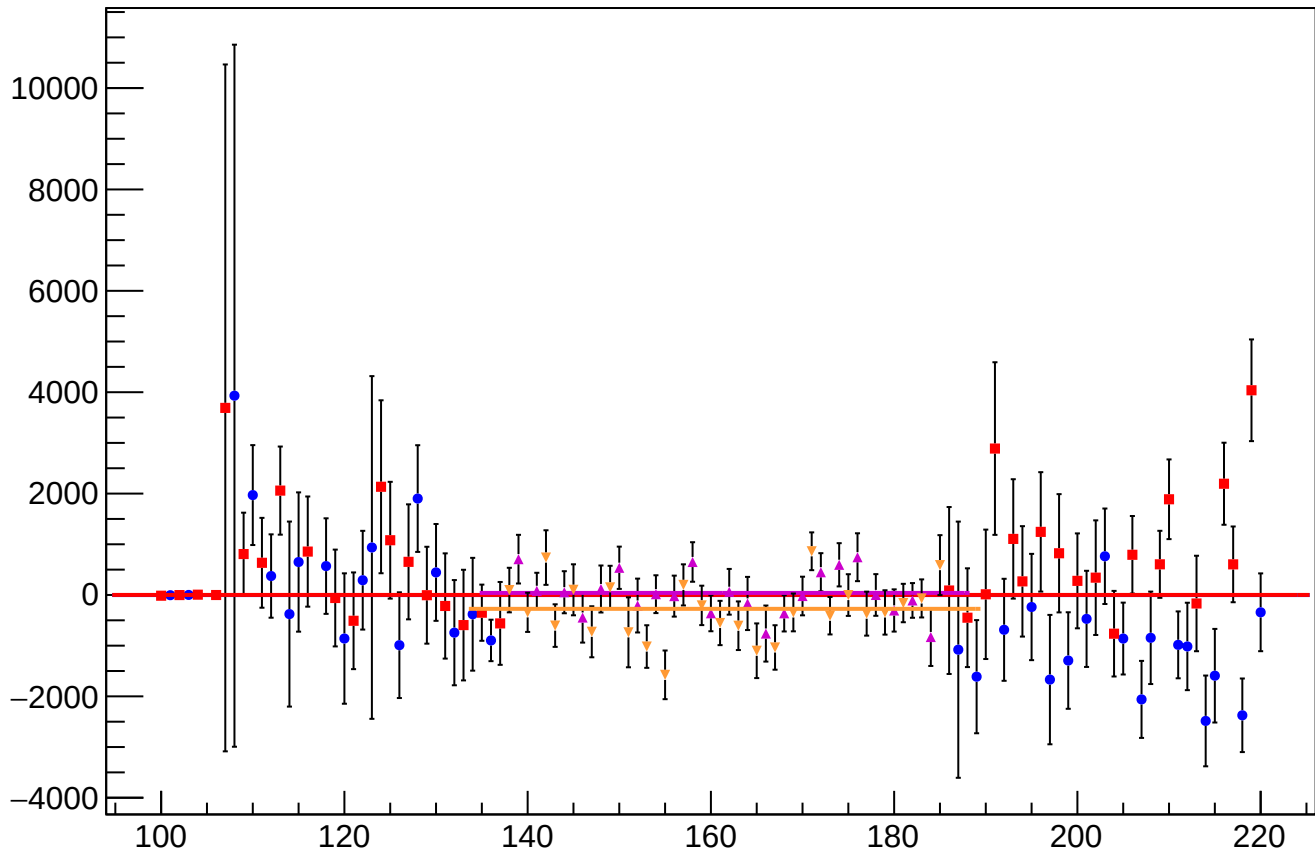
Right: 174.789 $\pm$ 0.021 χ^2 /NDF: 5037690.9/70

In: 178.874 $\pm$ 0.022 χ^2 /NDF:3714924.2/56

Out: 186.298 $\pm$ 0.022 χ^2 /NDF:4923705.7/61

All: 182.490 $\pm$ 0.016 χ^2 /NDF: 8695081.0/118

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.652 ± 2.251 χ^2/NDF : 58.9/33

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.805 ± 2.111 χ^2/NDF : 56.8/36

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

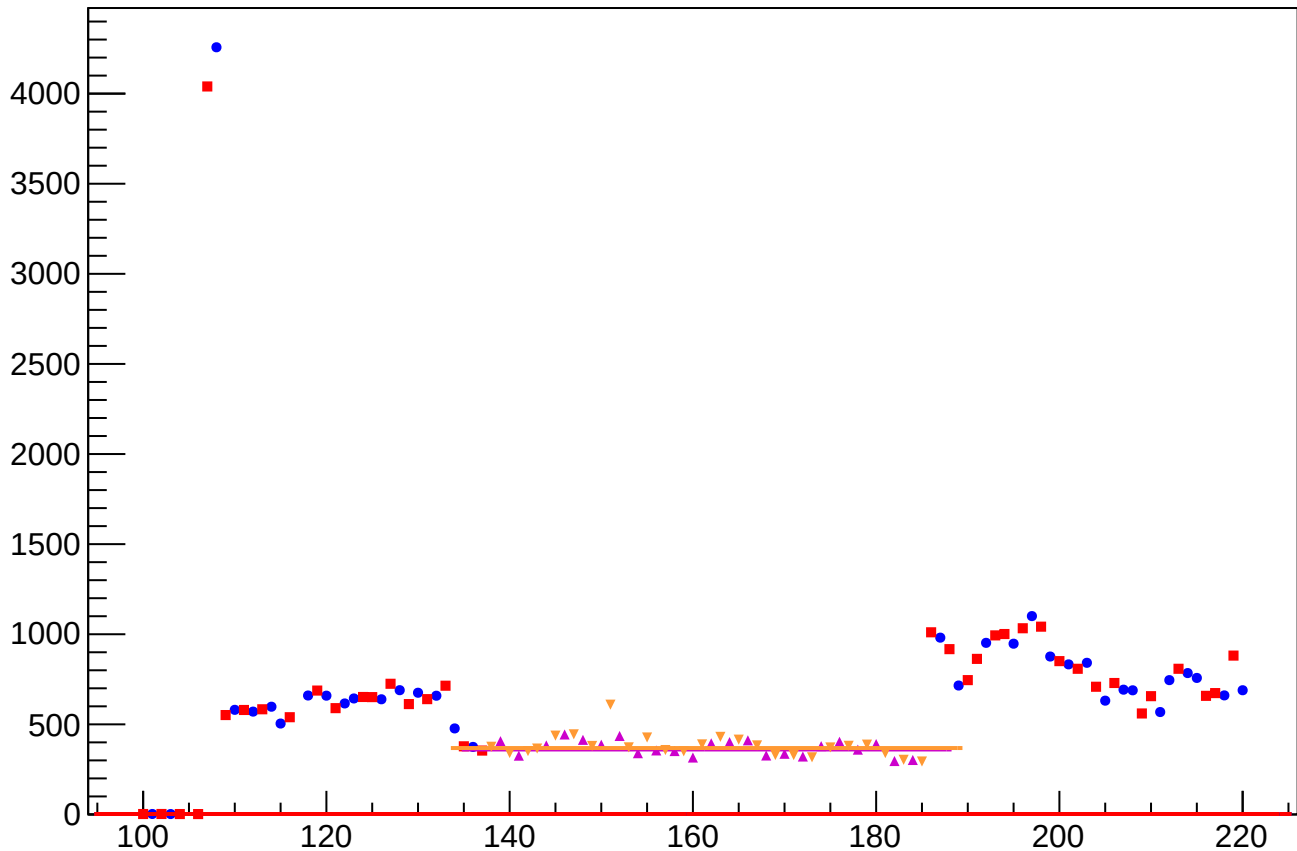
Right: -0.345 ± 1.540 χ^2/NDF : 116.3/70

In: -1.624 ± 2.251 χ^2/NDF : 79.3/56

Out: 0.643 ± 2.110 χ^2/NDF : 105.0/61

All: -0.418 ± 1.539 χ^2/NDF : 184.9/118

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.536+/-0.002 χ^2/NDF : 34898055.3/33

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.505+/-0.001 χ^2/NDF : 35613171.2/36

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

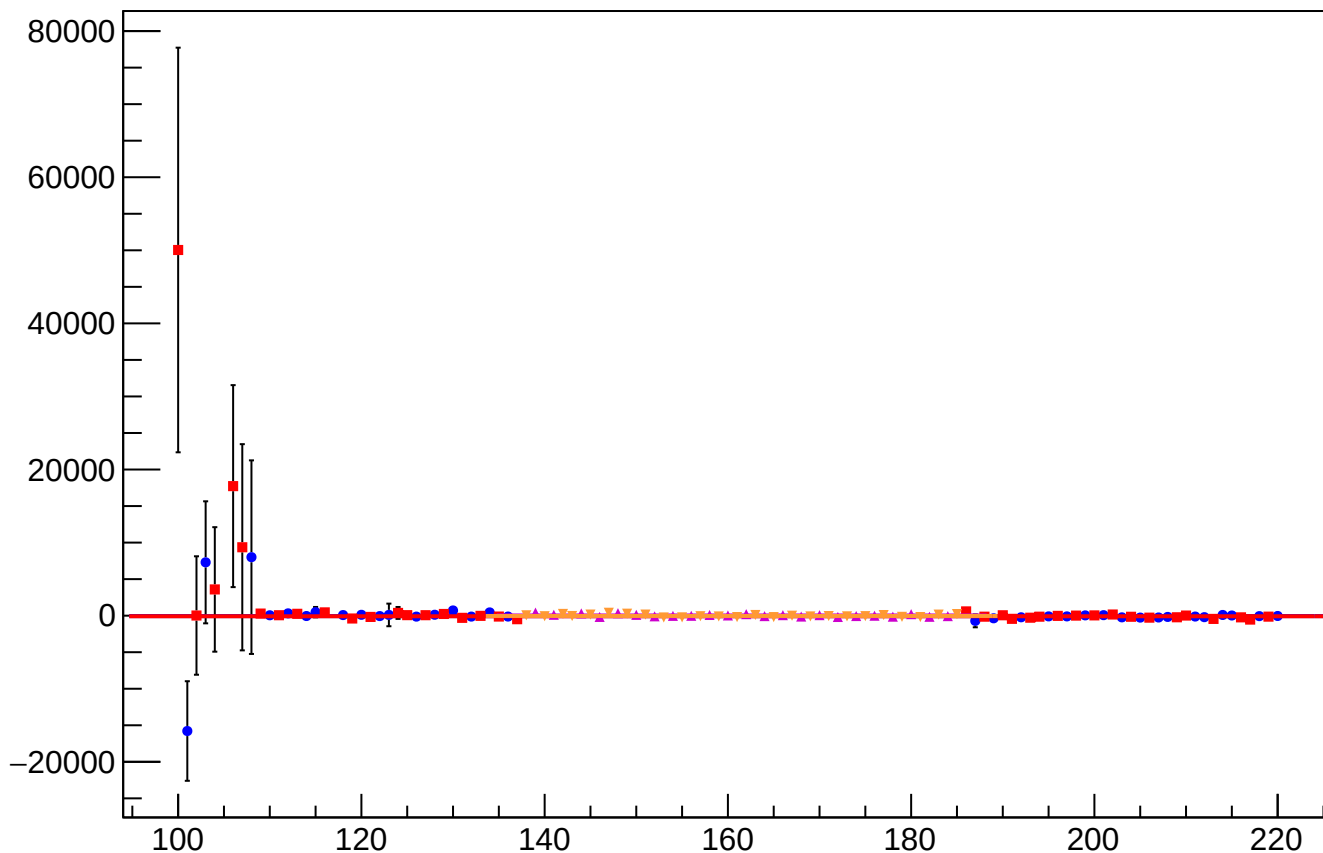
Right: 2.519+/-0.001 χ^2/NDF : 70511436.9/70

In: 2.773+/-0.002 χ^2/NDF : 68807001.4/56

Out: 2.721+/-0.001 χ^2/NDF : 71716887.2/61

All: 2.745+/-0.001 χ^2/NDF : 140524471.5/118

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.332 $\pm$ 45.254 χ^2 /NDF: 21.5/33

Left Out: -39.036 $\pm$ 49.576 χ^2 /NDF: 9.1/24

Right Out: -81.697 $\pm$ 45.836 χ^2 /NDF: 28.4/36

Left In: 28.062 $\pm$ 48.032 χ^2 /NDF: 9.6/22

Left: -4.426 $\pm$ 34.497 χ^2 /NDF: 19.7/47

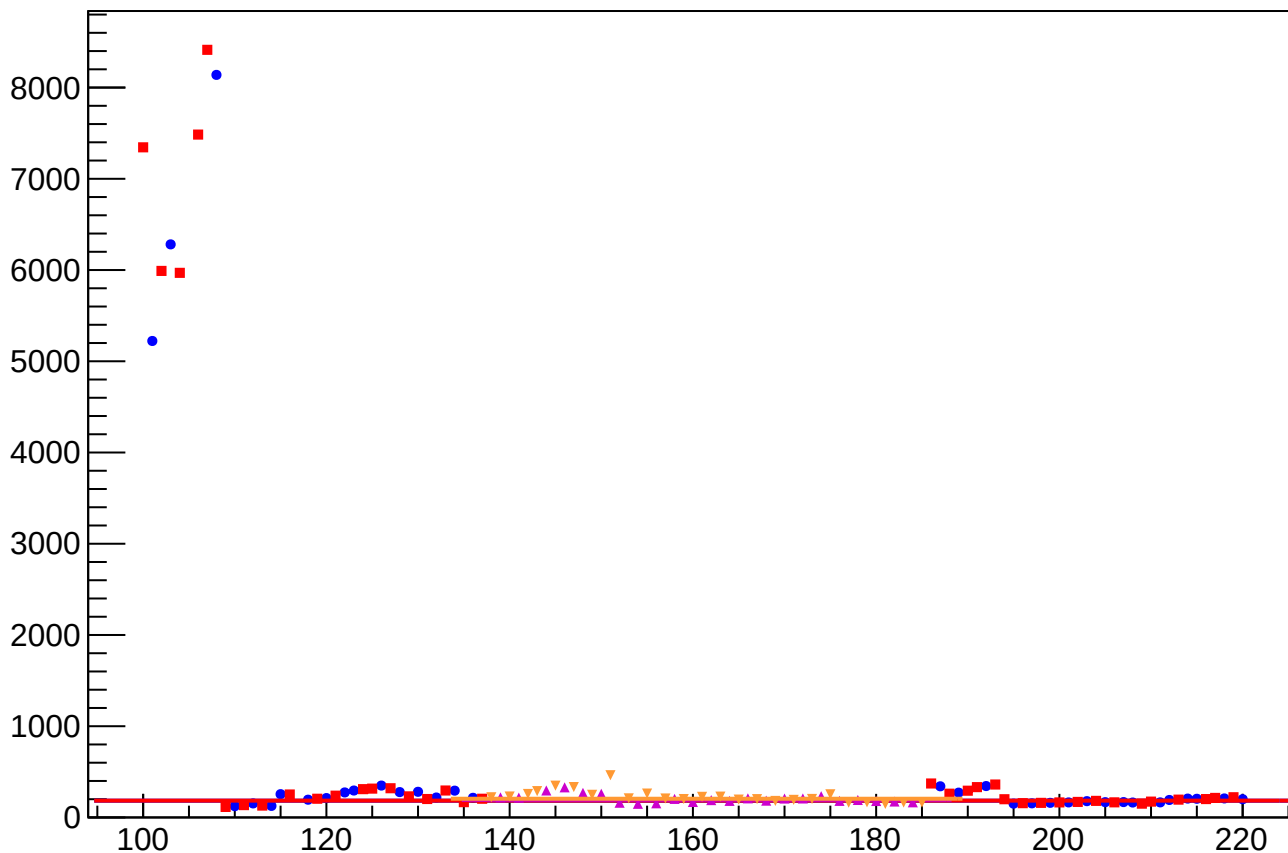
Right: -69.359 $\pm$ 32.203 χ^2 /NDF: 50.0/70

In: -17.176 $\pm$ 32.938 χ^2 /NDF: 32.8/56

Out: -62.036 $\pm$ 33.656 χ^2 /NDF: 37.9/61

All: -39.122 $\pm$ 23.540 χ^2 /NDF: 71.6/118

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 183.471+/-0.032 χ^2/NDF : 4614737.0/33

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 184.336+/-0.032 χ^2/NDF : 5519420.7/36

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

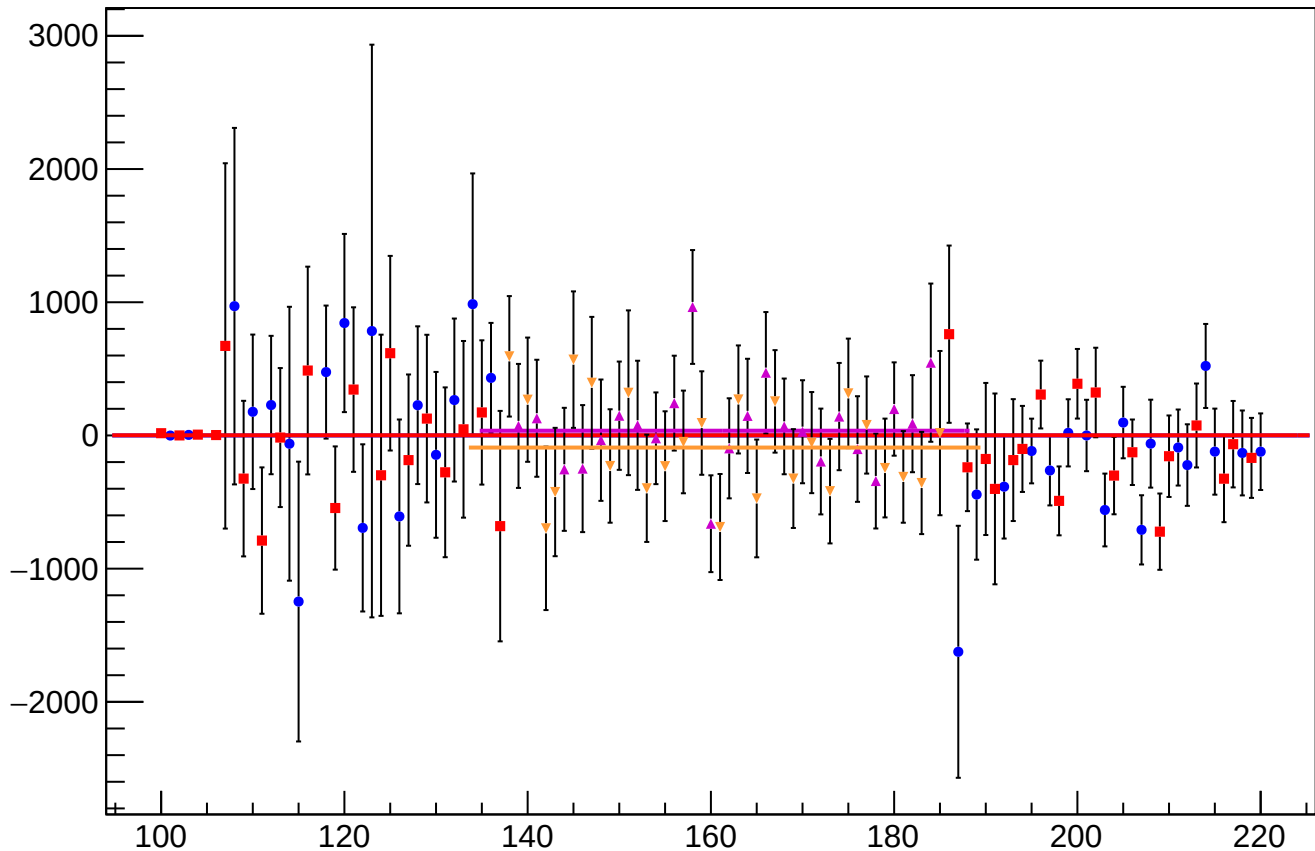
Right: 183.898+/-0.023 χ^2/NDF : 10134518.5/70

In: 188.242+/-0.023 χ^2/NDF :5841472.0/56

Out: 193.912+/-0.024 χ^2/NDF :7666298.2/61

All: 191.016+/-0.017 χ^2/NDF : 13536765.6/131

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.234 $\pm$ 1.736 χ^2/NDF : 31.7/33

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF :16.4/24

Right Out: 1.273 $\pm$ 1.622 χ^2/NDF : 29.4/36

Left In: 35.488 $\pm$ 84.382 χ^2/NDF :13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

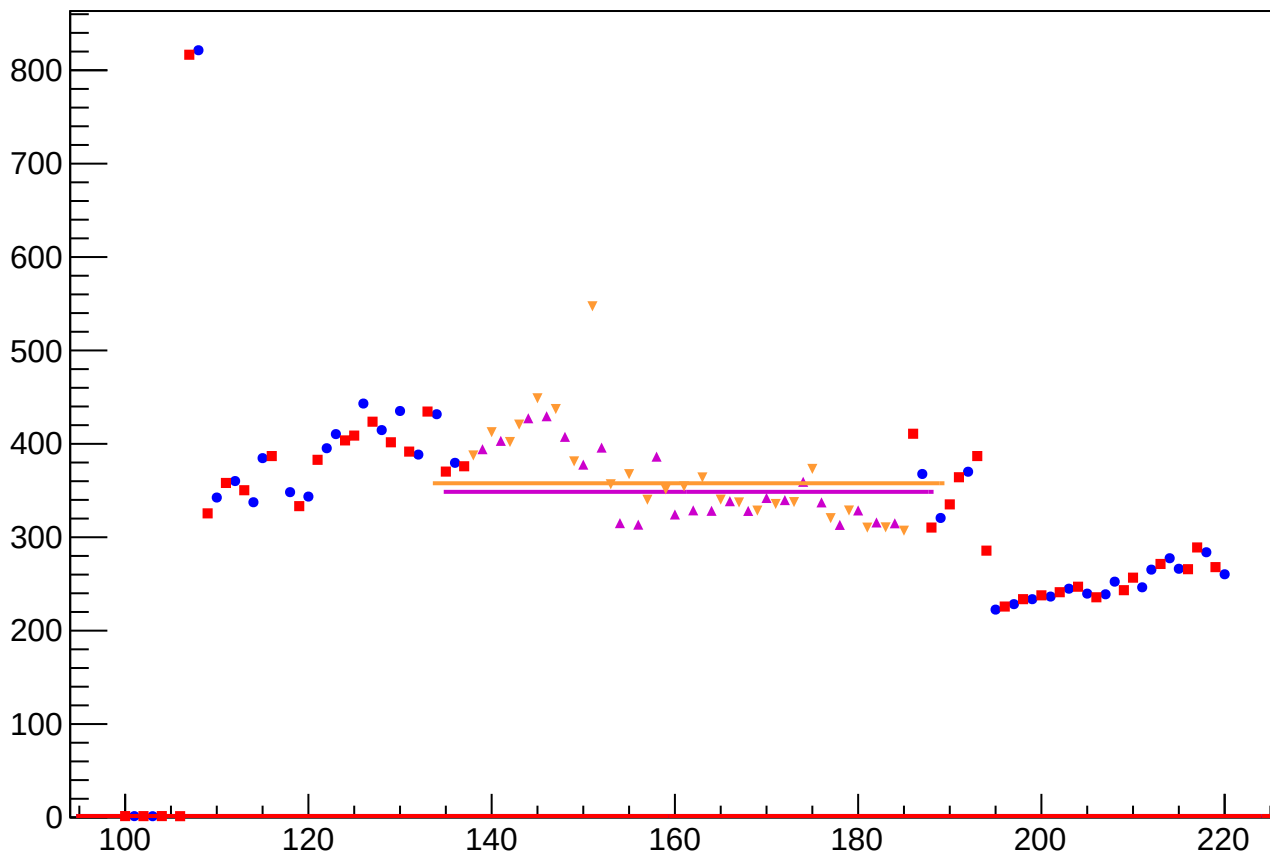
Right: 0.570 $\pm$ 1.185 χ^2/NDF : 61.5/70

In: -0.219 $\pm$ 1.736 χ^2/NDF :45.4/56

Out: 1.239 $\pm$ 1.622 χ^2/NDF :47.0/61

All: 0.559 $\pm$ 1.185 χ^2/NDF : 92.7/118

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.595 ± 0.001 χ^2/NDF : 35113345.7/33

Left Out: 357.804 ± 0.059 χ^2/NDF : 547036.5/24

Right Out: 1.572 ± 0.001 χ^2/NDF : 35314859.7/36

Left In: 348.611 ± 0.060 χ^2/NDF : 362511.2/22

Left: 353.224 ± 0.042 χ^2/NDF : 921460.0/47

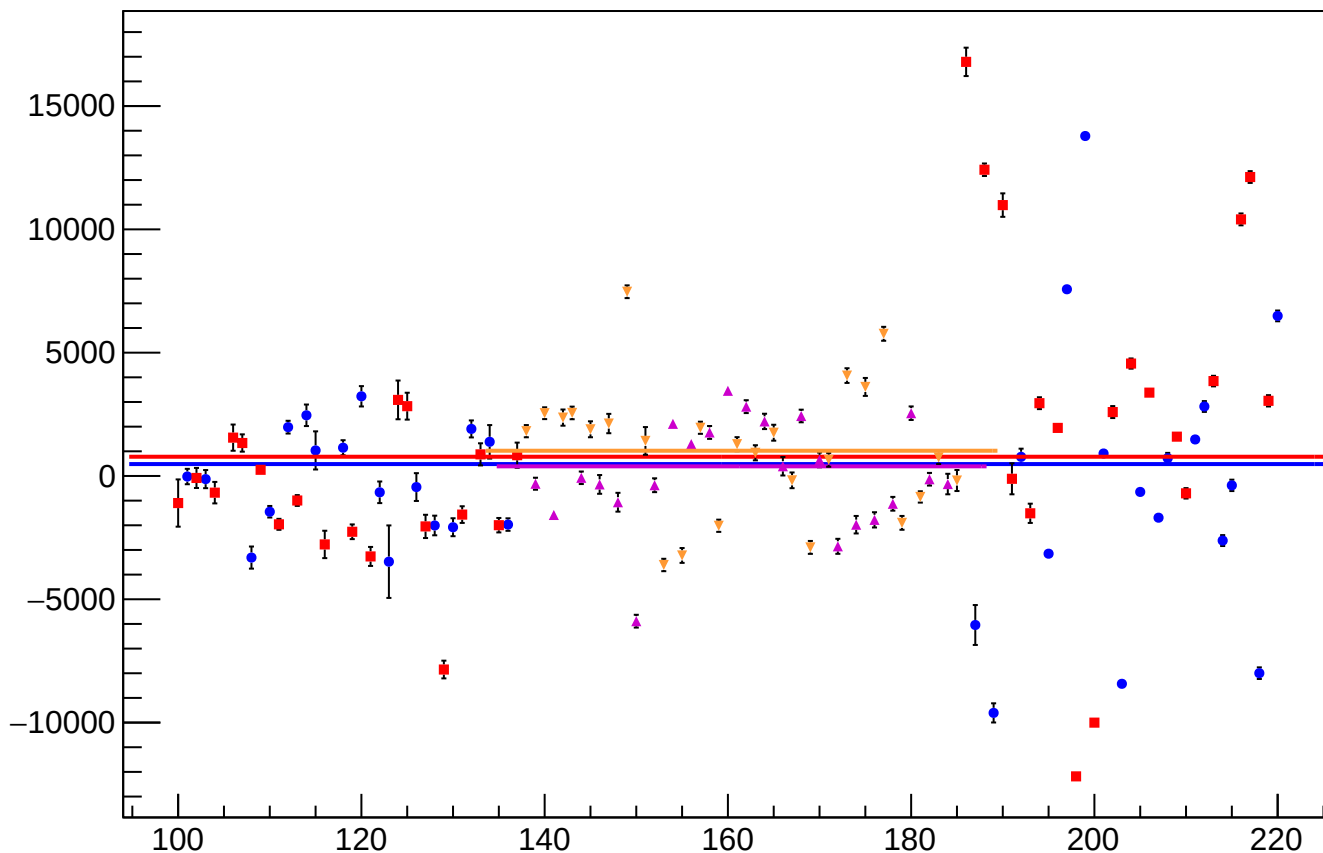
Right: 1.583 ± 0.001 χ^2/NDF : 70428403.2/70

In: 1.742 ± 0.001 χ^2/NDF : 69285527.7/56

Out: 1.704 ± 0.001 χ^2/NDF : 71751164.5/61

All: 1.722 ± 0.001 χ^2/NDF : 141037201.4/118

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 482.433 ± 44.792 $\chi^2/\text{NDF}: 13410.8/33$

Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$

Right Out: 779.863 ± 44.565 $\chi^2/\text{NDF}: 18002.1/36$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

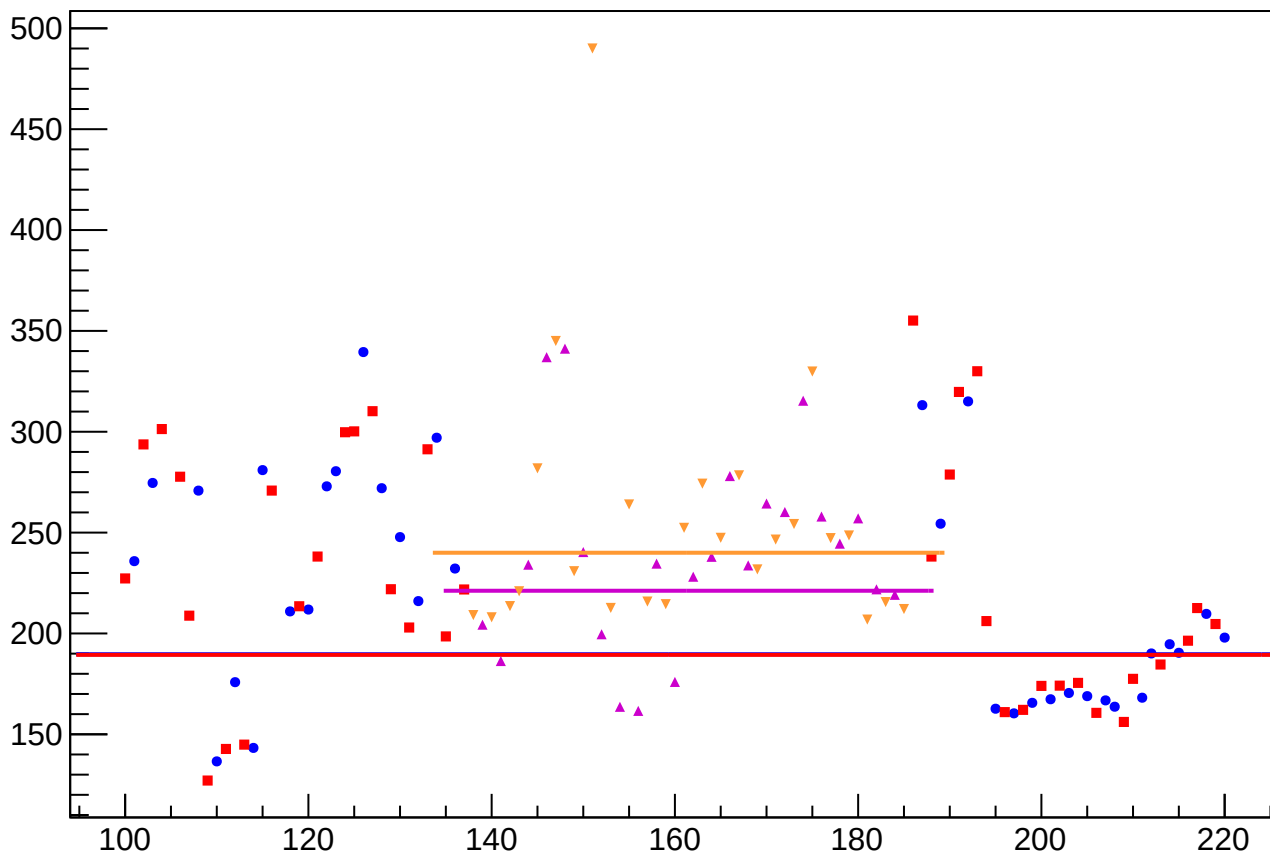
Right: 631.903 ± 31.592 $\chi^2/\text{NDF}: 31435.0/70$

In: 445.613 ± 34.714 $\chi^2/\text{NDF}: 14997.4/56$

Out: 871.593 ± 35.187 $\chi^2/\text{NDF}: 20322.7/61$

All: 655.721 ± 24.712 $\chi^2/\text{NDF}: 35394.3/118$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.694+/-0.032 χ^2/NDF : 1562870.9/33

Left Out: 240.019+/-0.041 χ^2/NDF :1002427.9/24

Right Out: 189.394+/-0.032 χ^2/NDF : 2154206.9/36

Left In: 221.173+/-0.039 χ^2/NDF :1342517.8/22

Left: 230.192+/-0.028 χ^2/NDF : 2457612.6/47

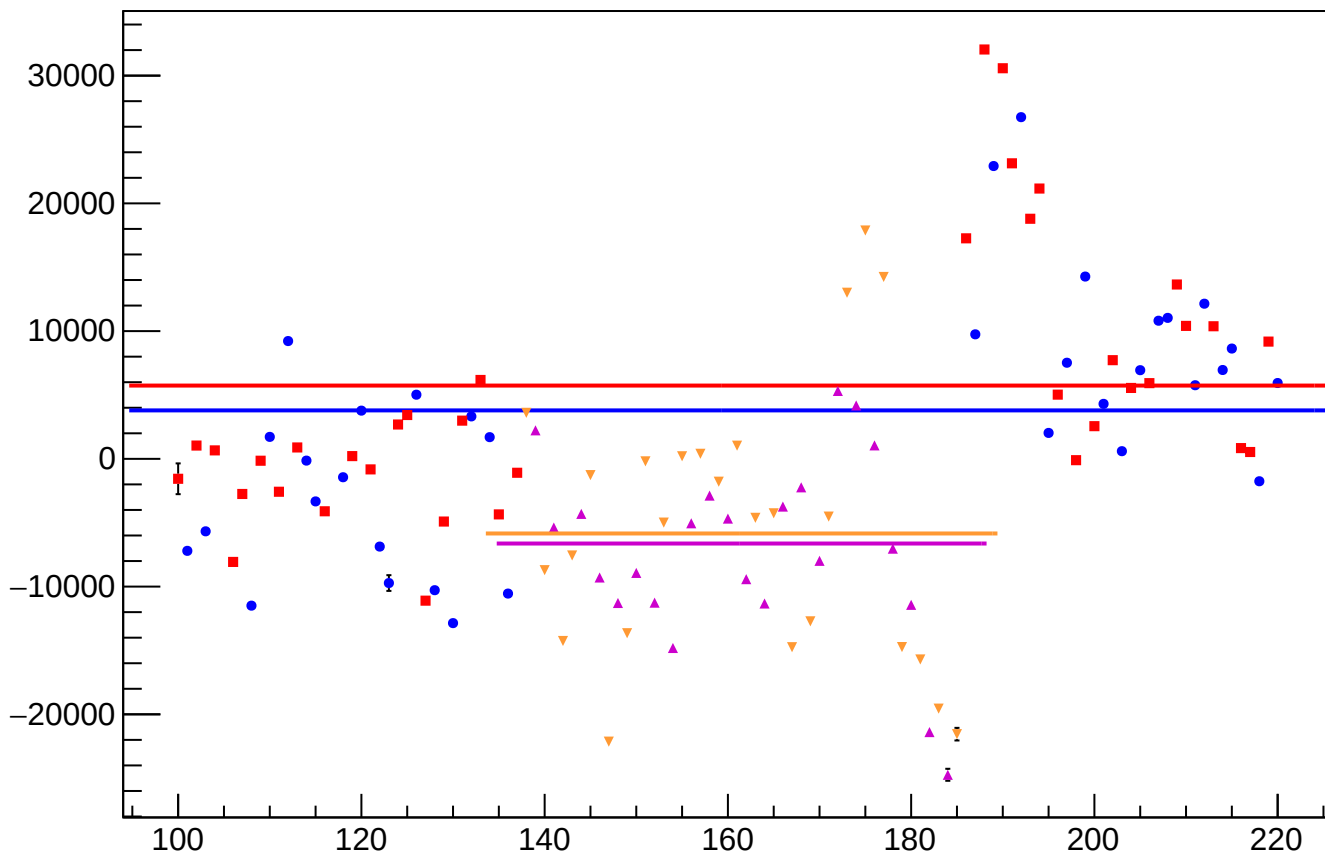
Right: 189.544+/-0.022 χ^2/NDF : 3717123.0/70

In: 202.266+/-0.025 χ^2/NDF :3299869.3/56

Out: 208.459+/-0.025 χ^2/NDF :4128585.8/61

All: 205.321+/-0.017 χ^2/NDF : 7459856.6/118

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3793.245+/-32.916

χ^2/NDF : 85184.0/33

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right: 4800.230+/-22.849

χ^2/NDF : 192930.5/70

Right Out: 5736.831+/-31.744

χ^2/NDF : 105940.0/36

In: -788.627+/-24.639

χ^2/NDF : 150995.4/56

Out: 647.910+/-23.766

χ^2/NDF : 227808.5/61

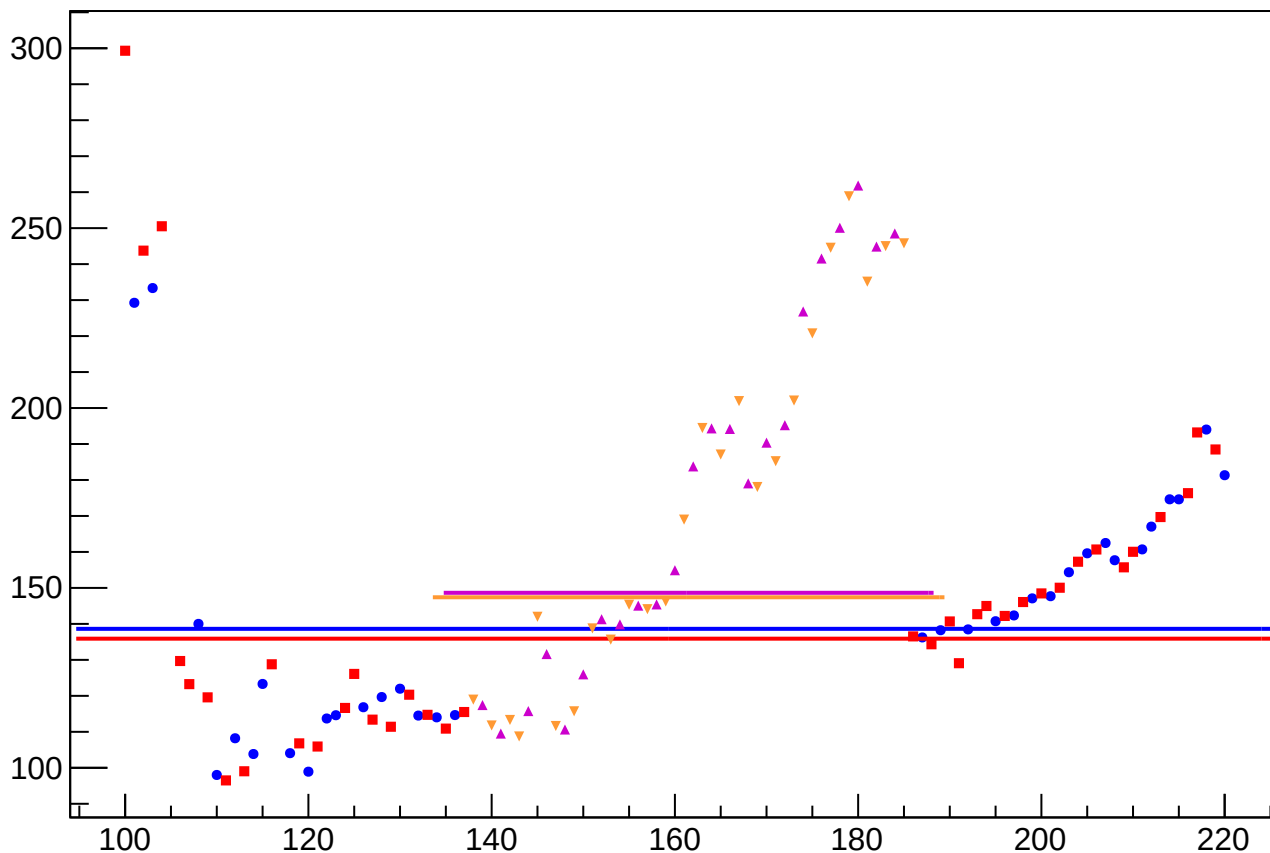
Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

All: -44.433+/-17.105

χ^2/NDF : 380564.8/118

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 138.627 $\pm$ 0.023 χ^2/NDF : 1511058.5/33

Left Out: 147.396 $\pm$ 0.025 χ^2/NDF : 2517097.1/24

Right Out: 135.892 $\pm$ 0.022 χ^2/NDF : 1584370.2/36

Left In: 148.642 $\pm$ 0.026 χ^2/NDF : 2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2/NDF : 4933793.6/47

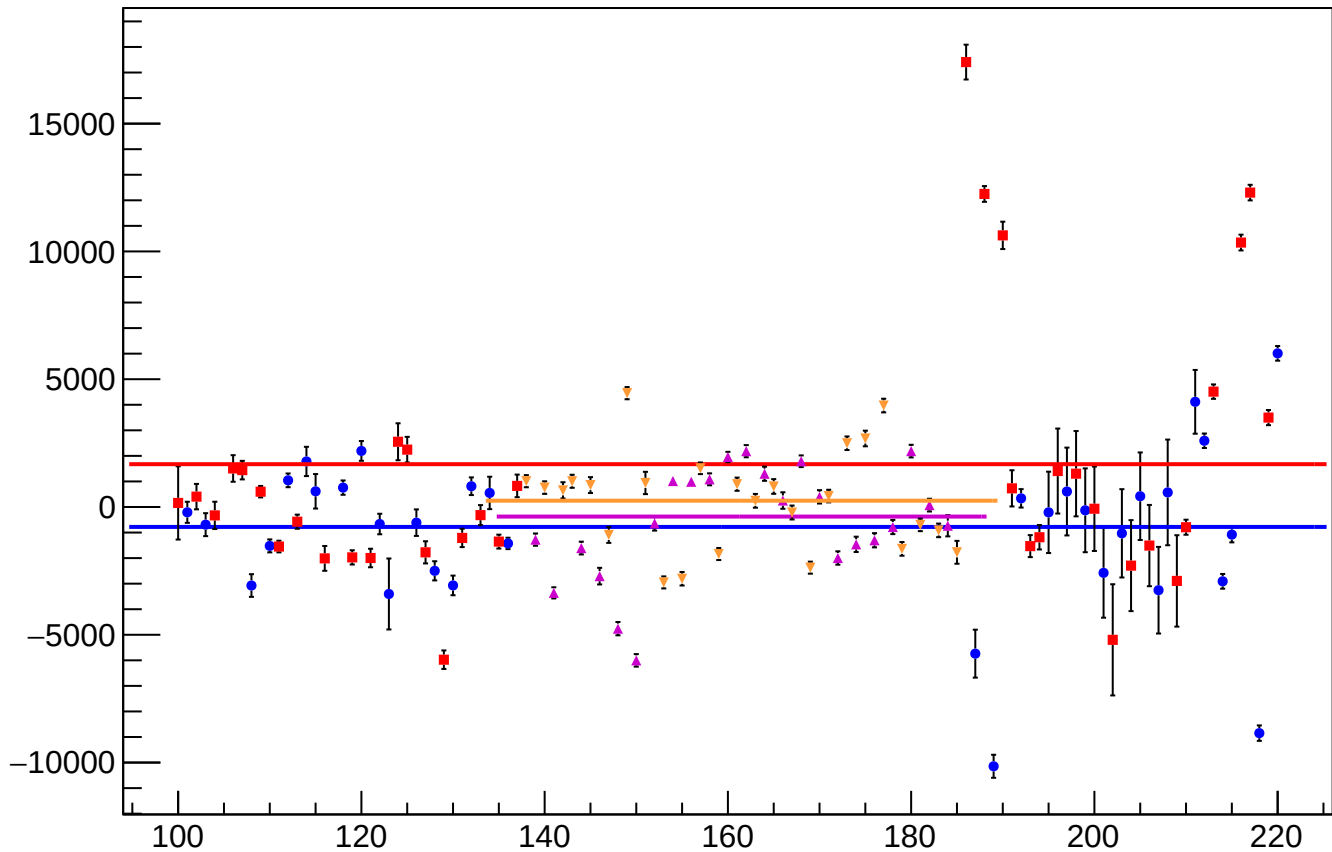
Right: 137.210 $\pm$ 0.016 χ^2/NDF : 3102583.2/70

In: 143.030 $\pm$ 0.017 χ^2/NDF : 4007990.7/56

Out: 140.948 $\pm$ 0.017 χ^2/NDF : 4216910.8/61

All: 141.952 $\pm$ 0.012 χ^2/NDF : 8232298.4/118

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -779.934 ± 70.593 $\chi^2/\text{NDF}: 2252.8/33$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 1675.248 ± 65.274 $\chi^2/\text{NDF}: 5691.7/36$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

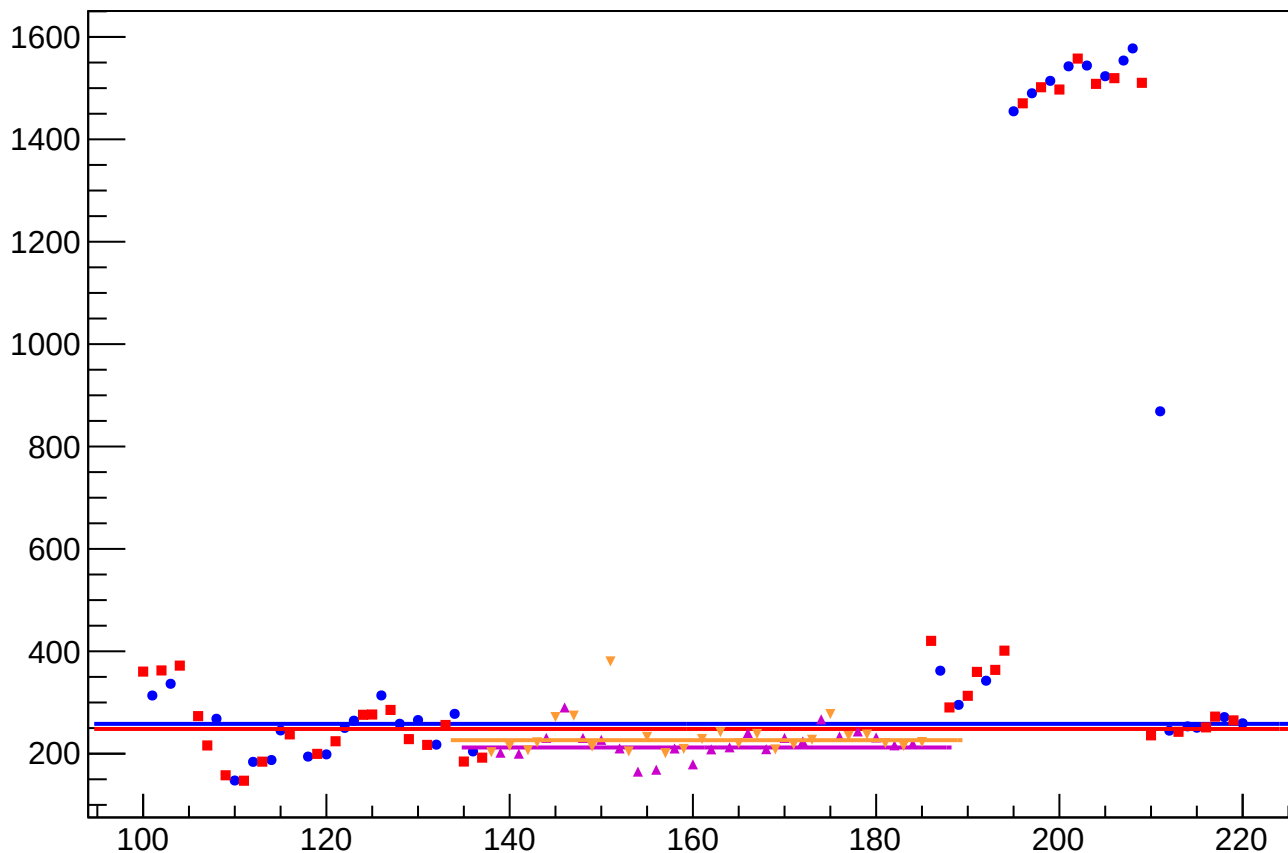
Right: 543.625 ± 47.926 $\chi^2/\text{NDF}: 8596.6/70$

In: -516.704 ± 41.811 $\chi^2/\text{NDF}: 4072.5/56$

Out: 820.288 ± 41.374 $\chi^2/\text{NDF}: 7333.3/61$

All: 158.823 ± 29.409 $\chi^2/\text{NDF}: 11922.5/118$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.261+/-0.050 χ^2/NDF : 10202163.3/33

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 248.315+/-0.046 χ^2/NDF : 9293963.3/36

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

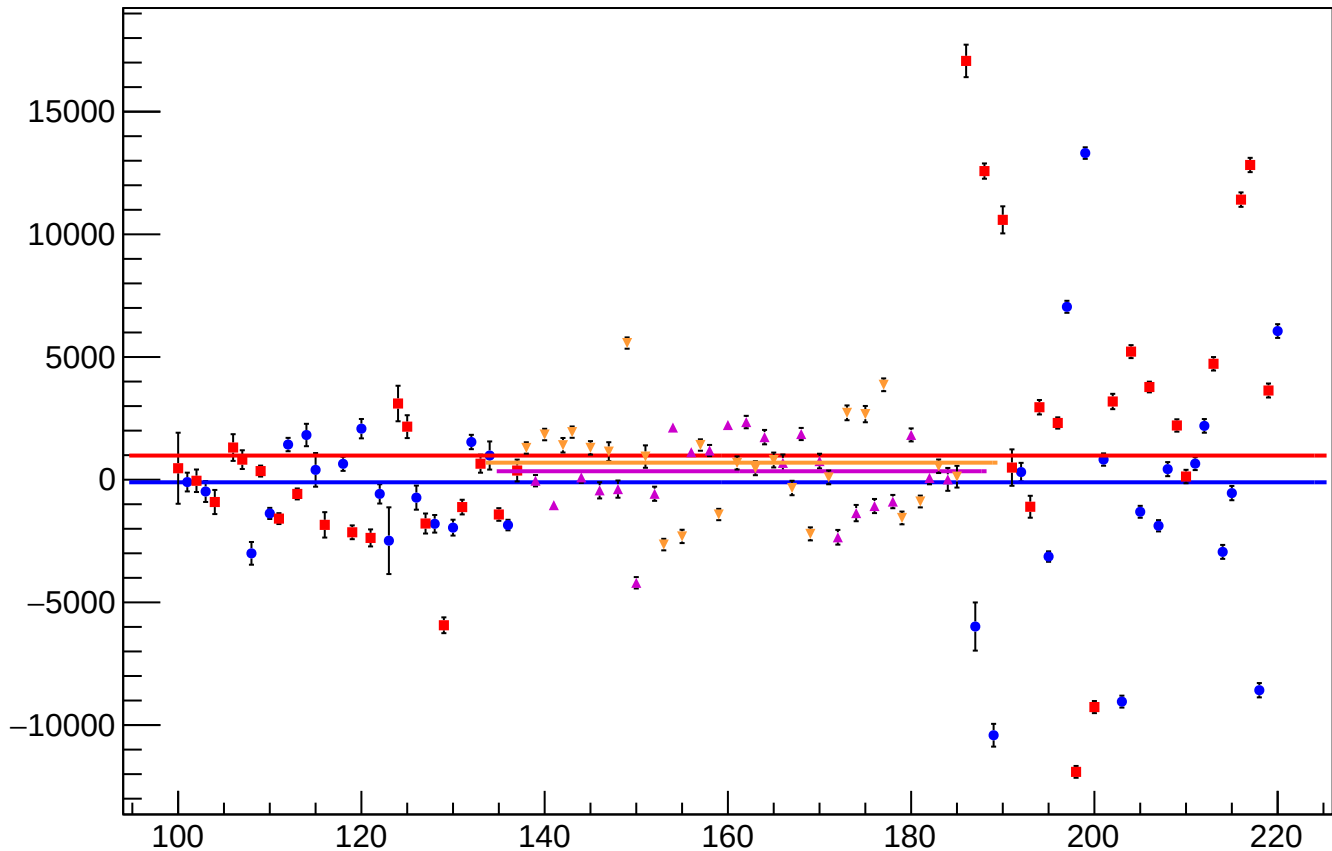
Right: 252.900+/-0.034 χ^2/NDF : 19517528.2/70

In: 228.323+/-0.030 χ^2/NDF : 11347969.7/56

Out: 235.190+/-0.029 χ^2/NDF : 9950907.1/61

All: 231.793+/-0.021 χ^2/NDF : 21326139.1/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -105.498 ± 52.250 $\chi^2/\text{NDF}: 8110.4/33$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 983.783 ± 51.584 $\chi^2/\text{NDF}: 11747.3/36$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

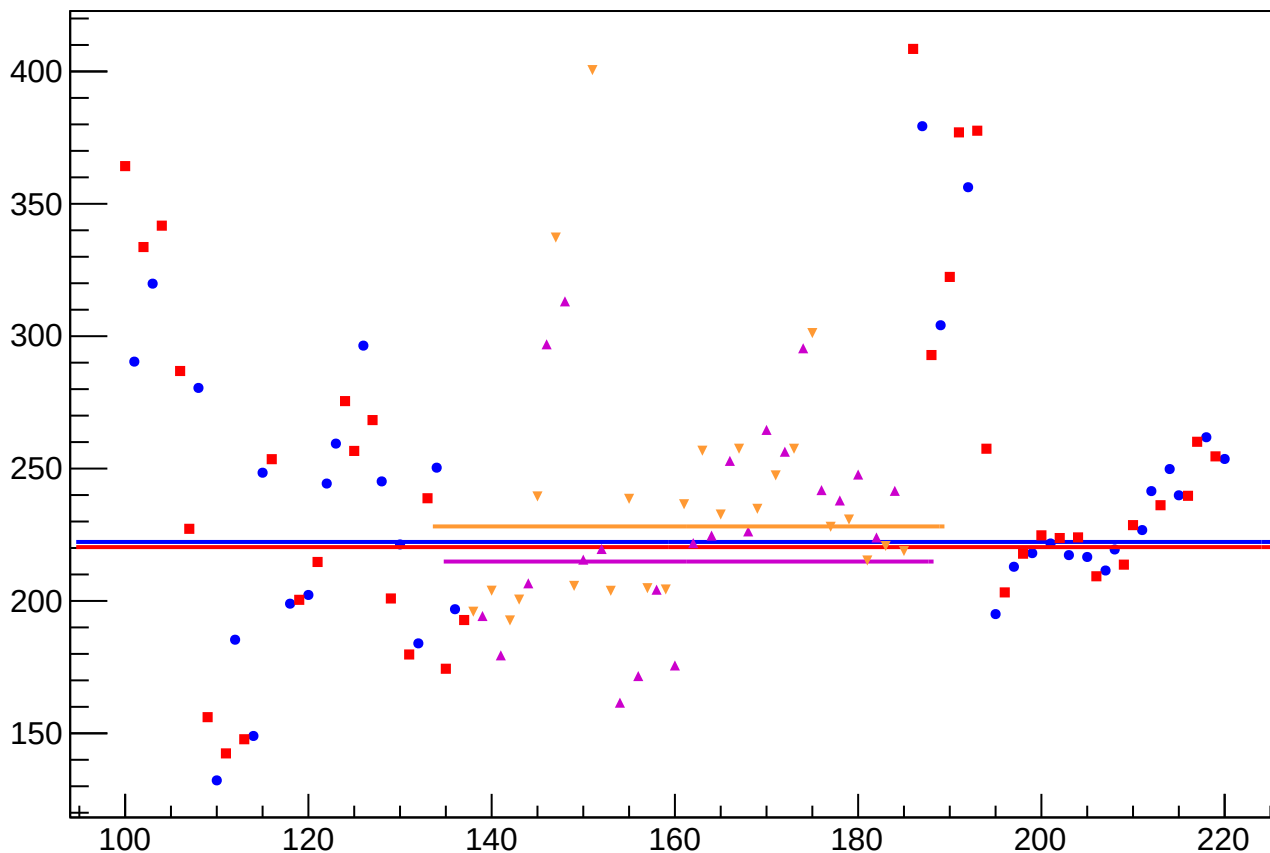
Right: 446.131 ± 36.709 $\chi^2/\text{NDF}: 20077.8/70$

In: 116.528 ± 37.193 $\chi^2/\text{NDF}: 9132.1/56$

Out: 846.332 ± 37.381 $\chi^2/\text{NDF}: 13184.3/61$

All: 479.587 ± 26.366 $\chi^2/\text{NDF}: 22507.9/118$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 222.281 ± 0.037 $\chi^2/\text{NDF}: 1263192.5/33$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 220.331 ± 0.036 $\chi^2/\text{NDF}: 1918018.7/36$

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: 221.294 ± 0.026 $\chi^2/\text{NDF}: 3182622.6/70$

In: 218.629 ± 0.026 $\chi^2/\text{NDF}: 2320508.6/56$

Out: 224.041 ± 0.026 $\chi^2/\text{NDF}: 2768204.7/61$

All: 221.321 ± 0.019 $\chi^2/\text{NDF}: 5109776.4/118$

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

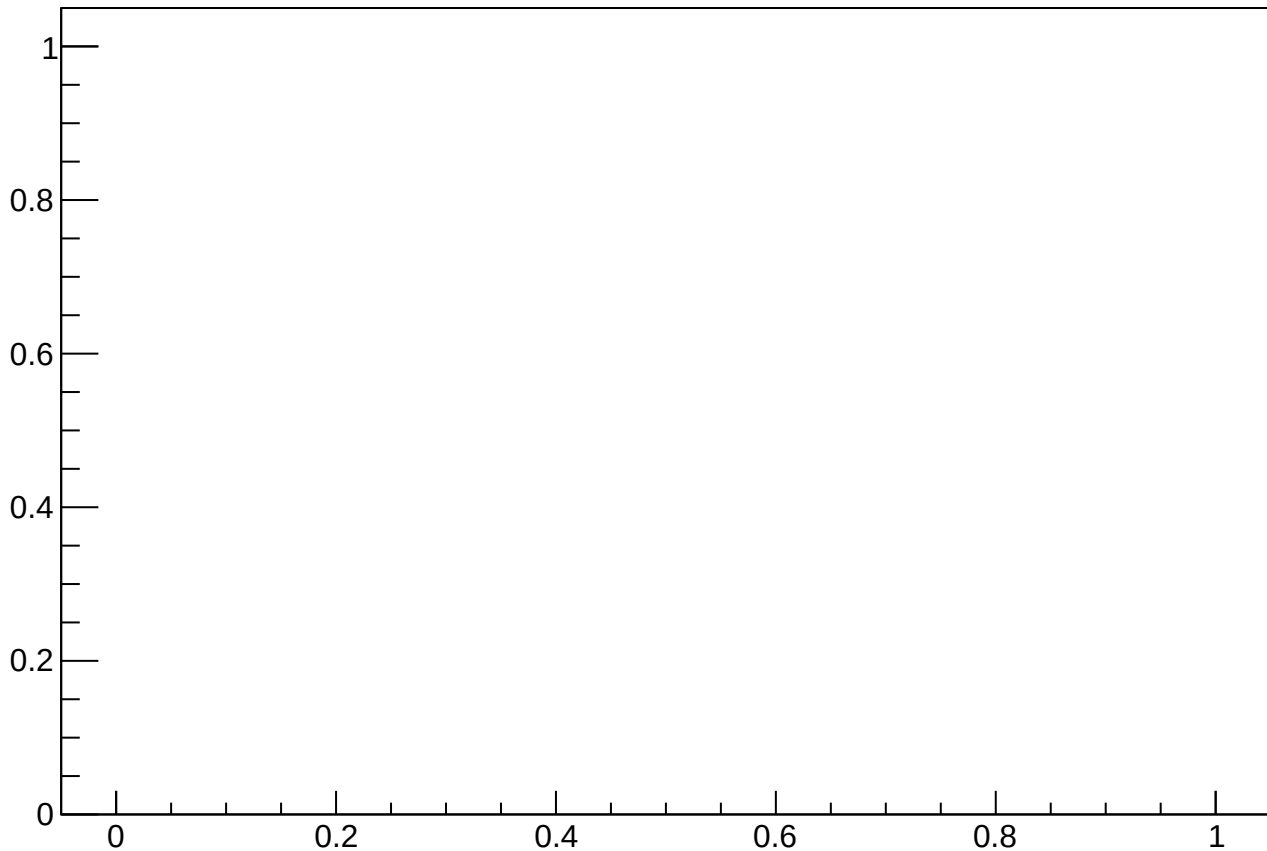
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

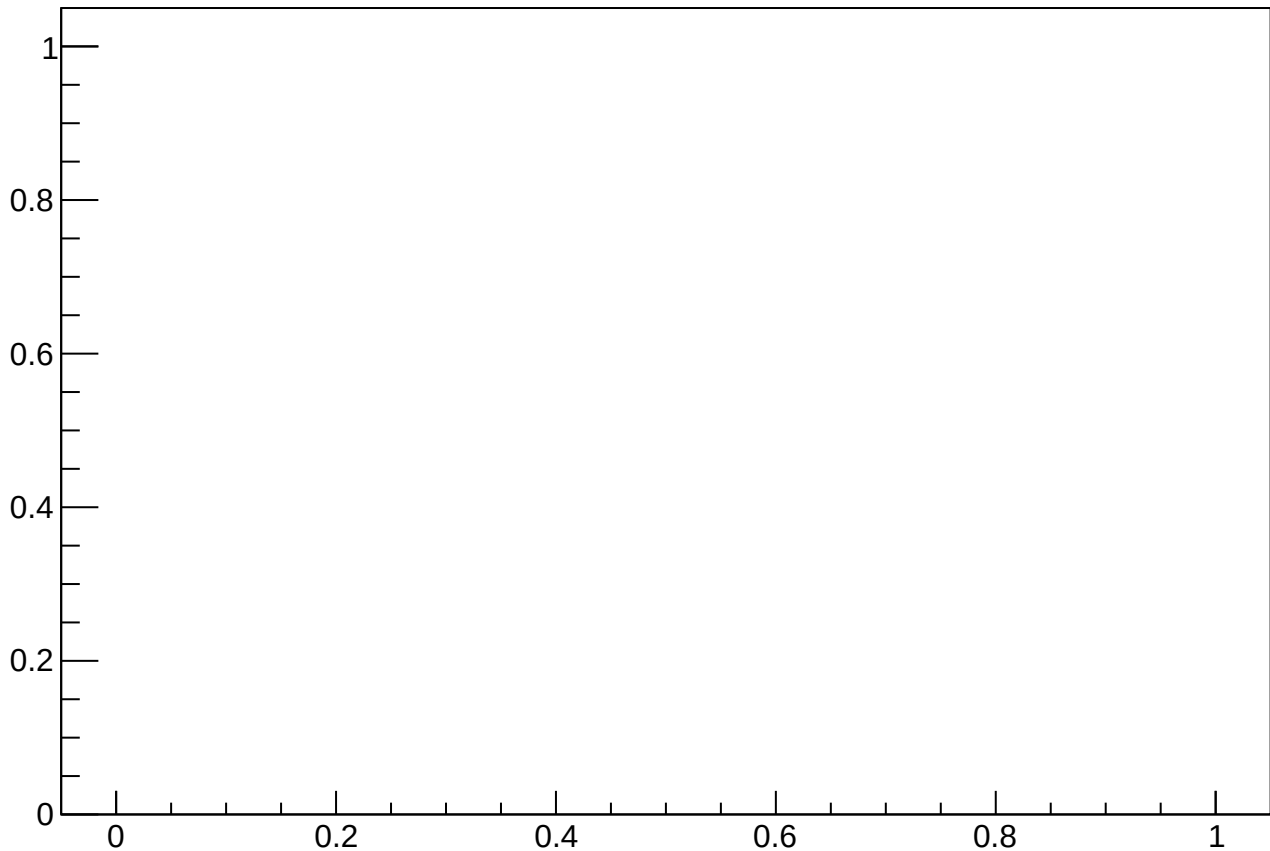
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

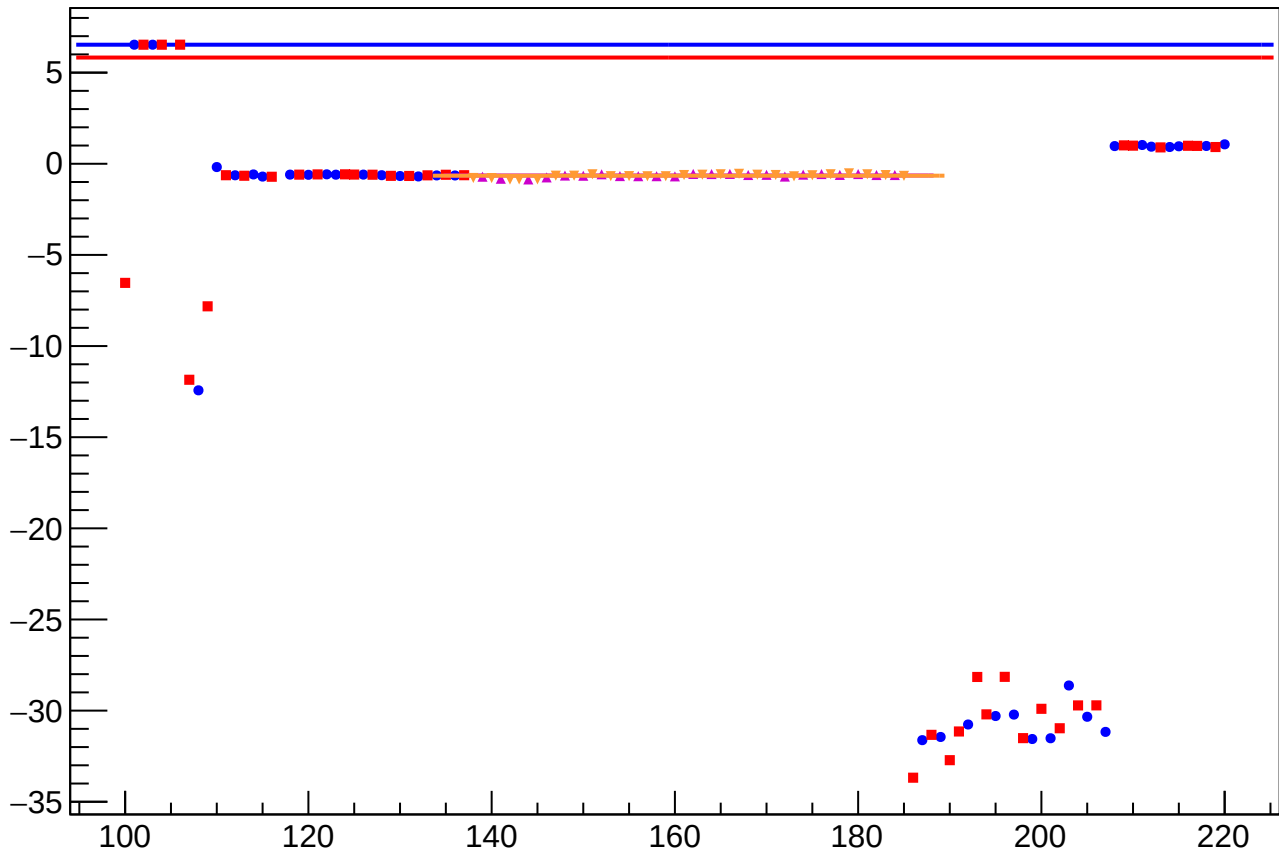
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 140757353804.4/33

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755970602025205.9/36

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

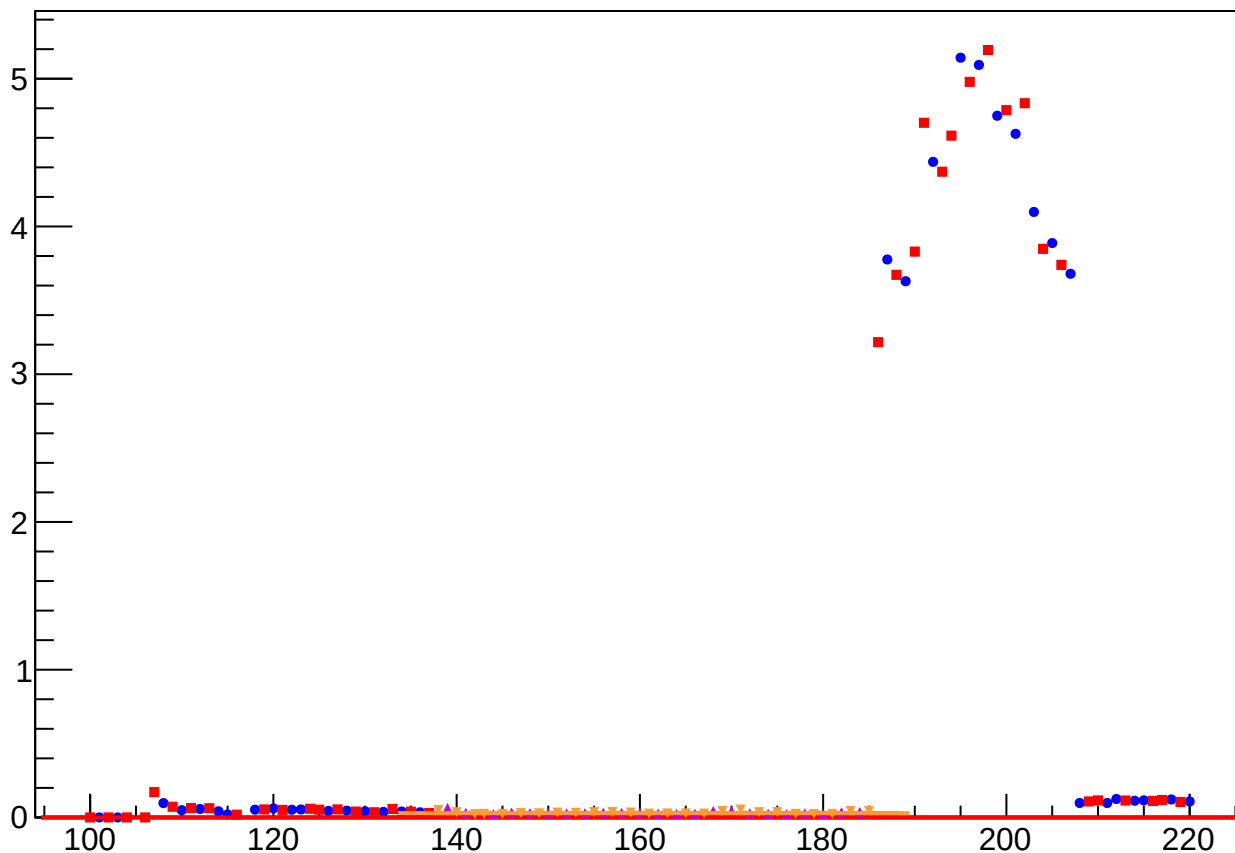
Right: 6.155+/-0.000 χ^2/NDF : 776114795092769.6/47

In: 6.530+/-0.000 χ^2/NDF : 974868897184.3/56

Out: 5.826+/-0.000 χ^2/NDF : 756681614677402.2/61

All: 6.153+/-0.000 χ^2/NDF : 77764821608395.0/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 32815169.1/33

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33485831.2/36

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

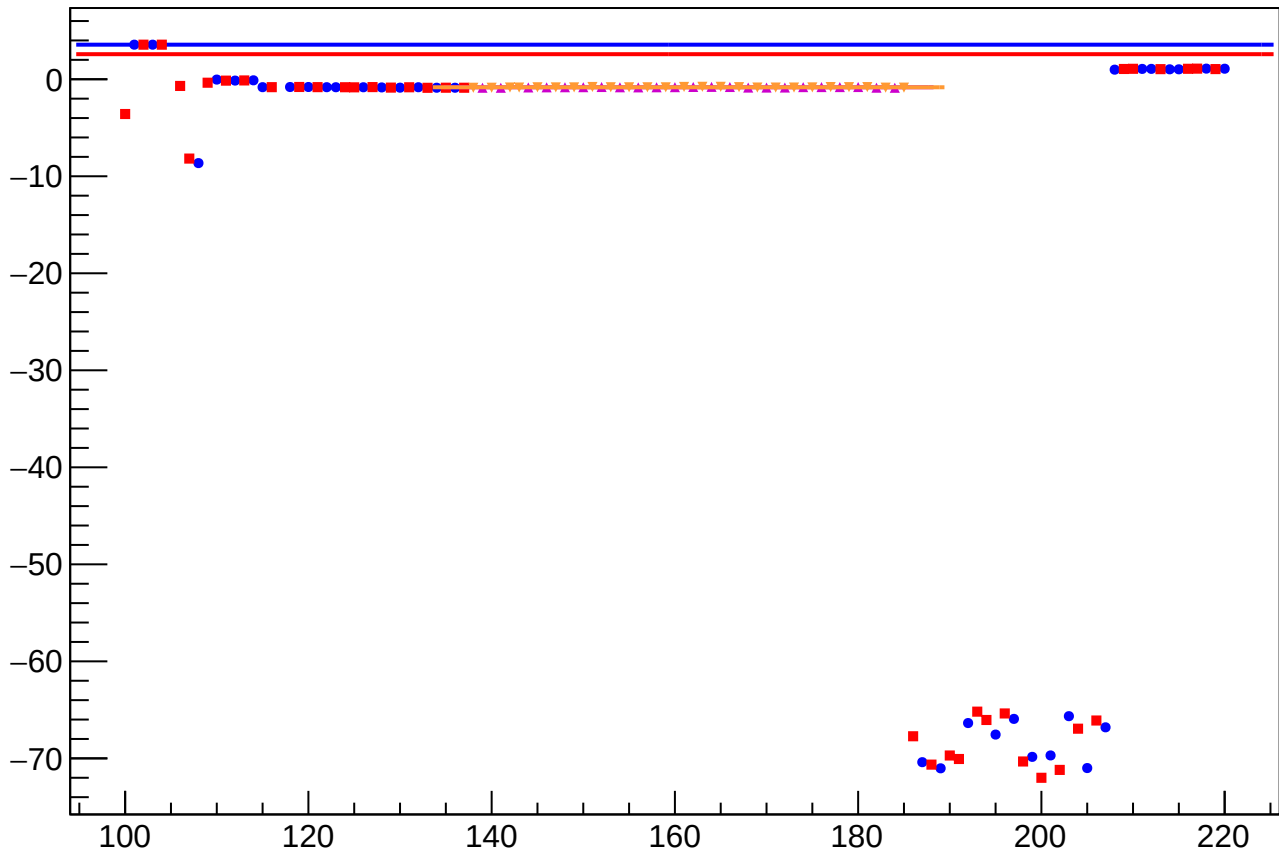
Right: 0.000+/-0.000 χ^2/NDF : 66301295.3/70

In: 0.000+/-0.000 χ^2/NDF :60991833.2/56

Out: 0.000+/-0.000 χ^2/NDF :63452987.5/61

All: 0.000+/-0.000 χ^2/NDF : 124445307.7/118

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 592039080062.0/33

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253565465949878.0/36

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

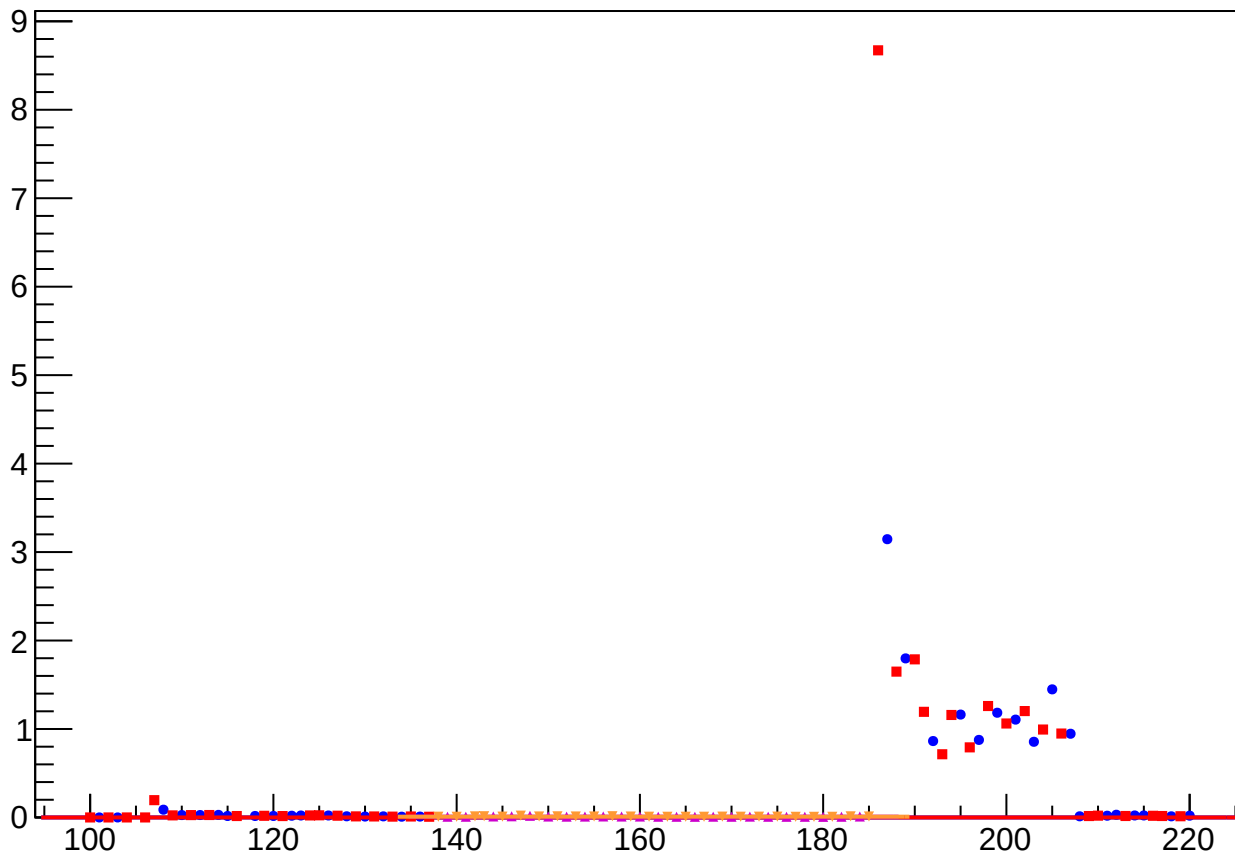
Right: 3.040+/-0.000 χ^2/NDF : 1382420831010755.8

In: 3.560+/-0.000 χ^2/NDF : 4272370774190.0/56

Out: 2.581+/-0.000 χ^2/NDF : 1255796261406068.2

All: 3.037+/-0.000 χ^2/NDF : 1388145077066

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29789257.9/33

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31074840.5/36

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

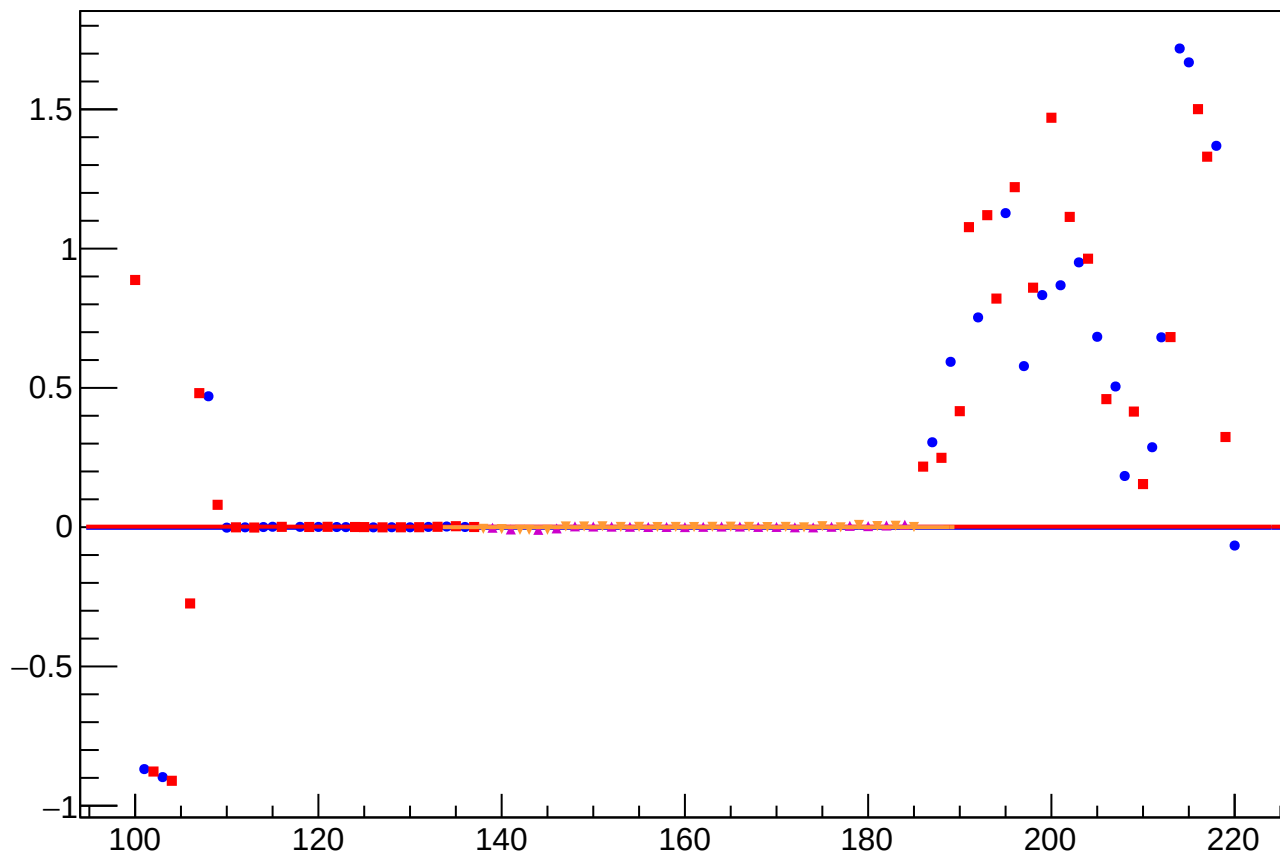
Right: 0.000+/-0.000 χ^2/NDF : 60864412.9/70

In: 0.000+/-0.000 χ^2/NDF :59580233.5/56

Out: 0.000+/-0.000 χ^2/NDF :62587151.4/61

All: 0.000+/-0.000 χ^2/NDF : 122168230.7/118

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9797444725.7/33

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right: -0.000+/-0.000 χ^2/NDF : 12855823452.9/70

Right Out: 0.002+/-0.000

χ^2/NDF : 3044231540.2/36

In: -0.000+/-0.000 χ^2/NDF : 9910348396.0/56

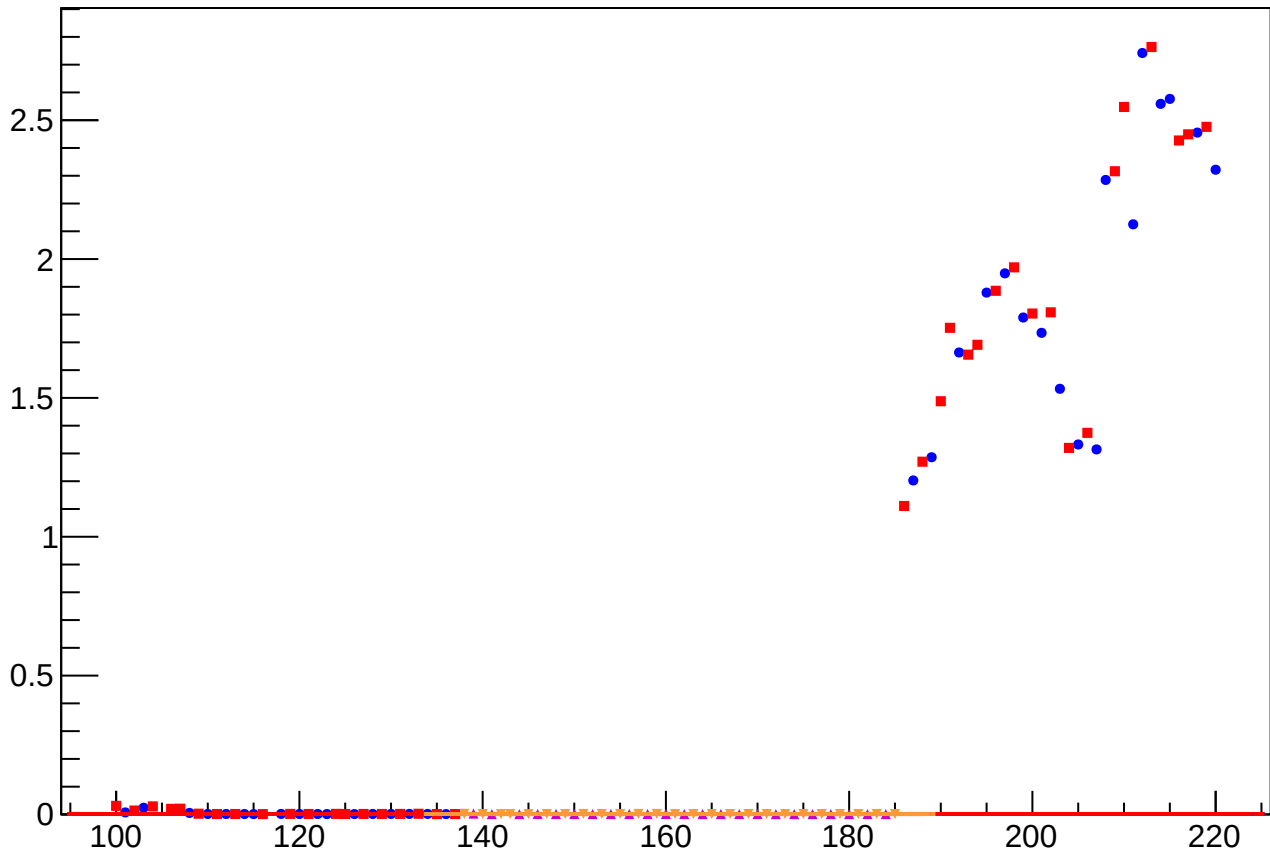
Out: 0.000+/-0.000 χ^2/NDF : 3200471226.7/61

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13111191067.8/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 25871539.5/33

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 27157461.8/36

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

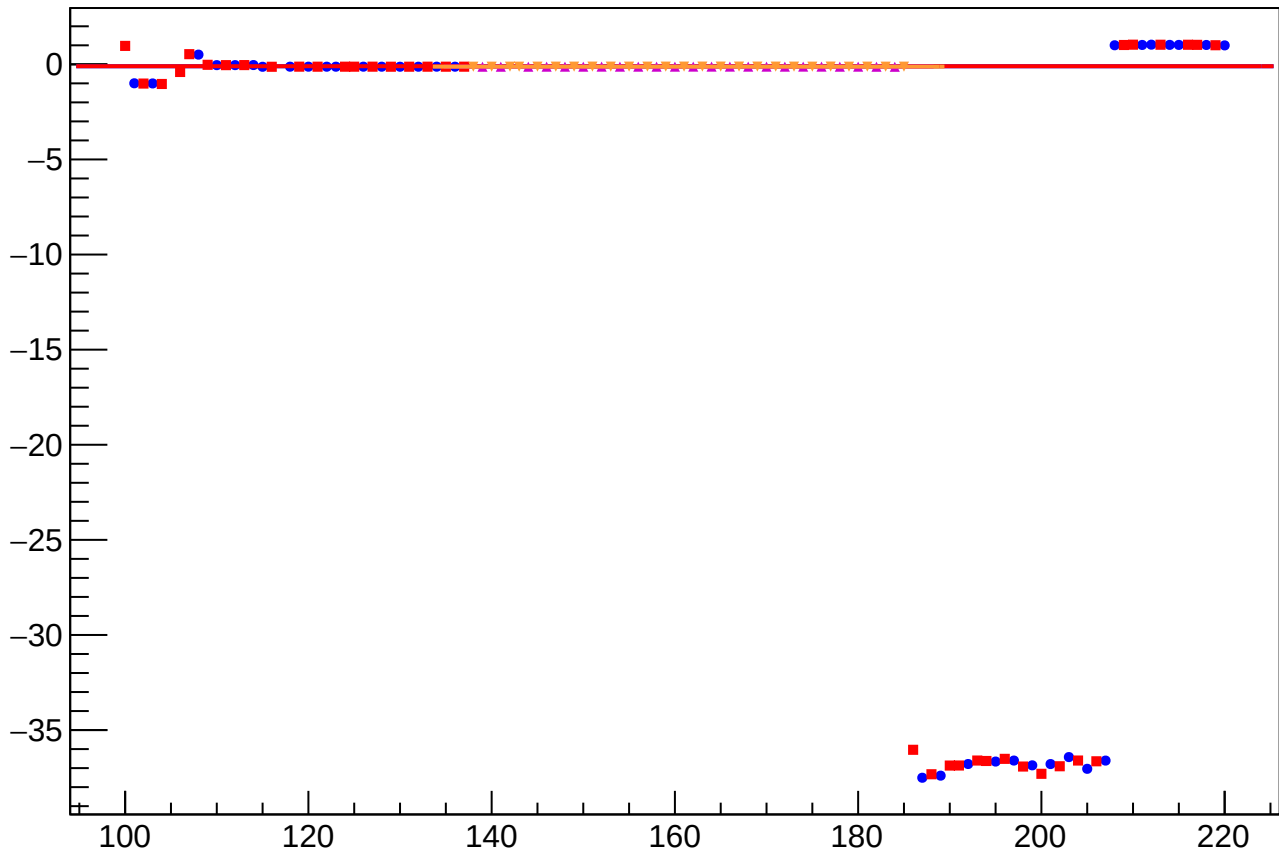
Right: 0.002+/-0.000 χ^2/NDF : 53036946.6/70

In: 0.002+/-0.000 χ^2/NDF :26584951.0/56

Out: 0.002+/-0.000 χ^2/NDF :27834524.1/61

All: 0.002+/-0.000 χ^2/NDF : 54420113.9/118

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.101+/-0.000 χ^2/NDF : 107791725657.4/33

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.099+/-0.000 χ^2/NDF : 106476744741.9/36

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

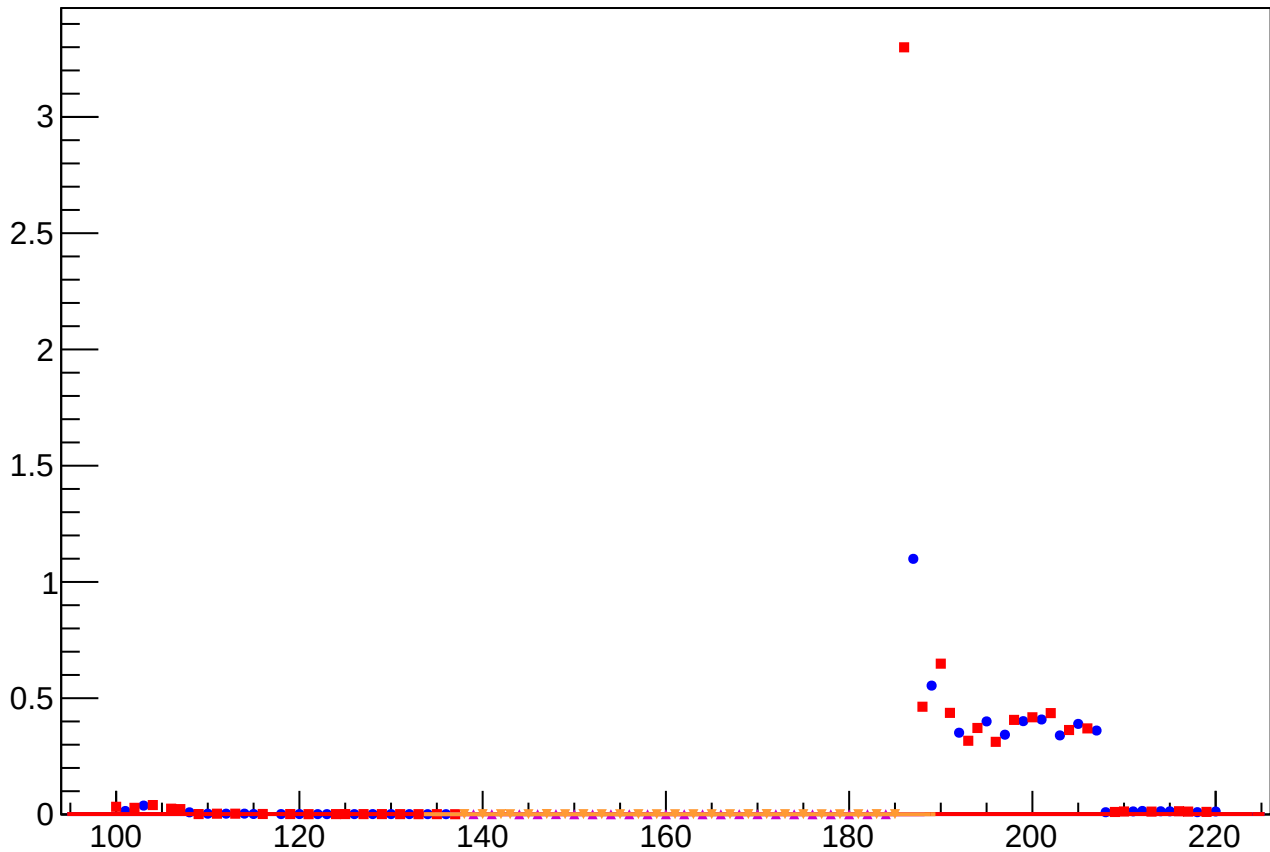
Right: -0.100+/-0.000 χ^2/NDF : 214275548135.2/70

In: -0.119+/-0.000 χ^2/NDF : 108500256719.1/56

Out: -0.119+/-0.000 χ^2/NDF : 107407401939.6/61

All: -0.119+/-0.000 χ^2/NDF : 215907658991.3

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 23473817.0/33

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 24889374.9/36

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

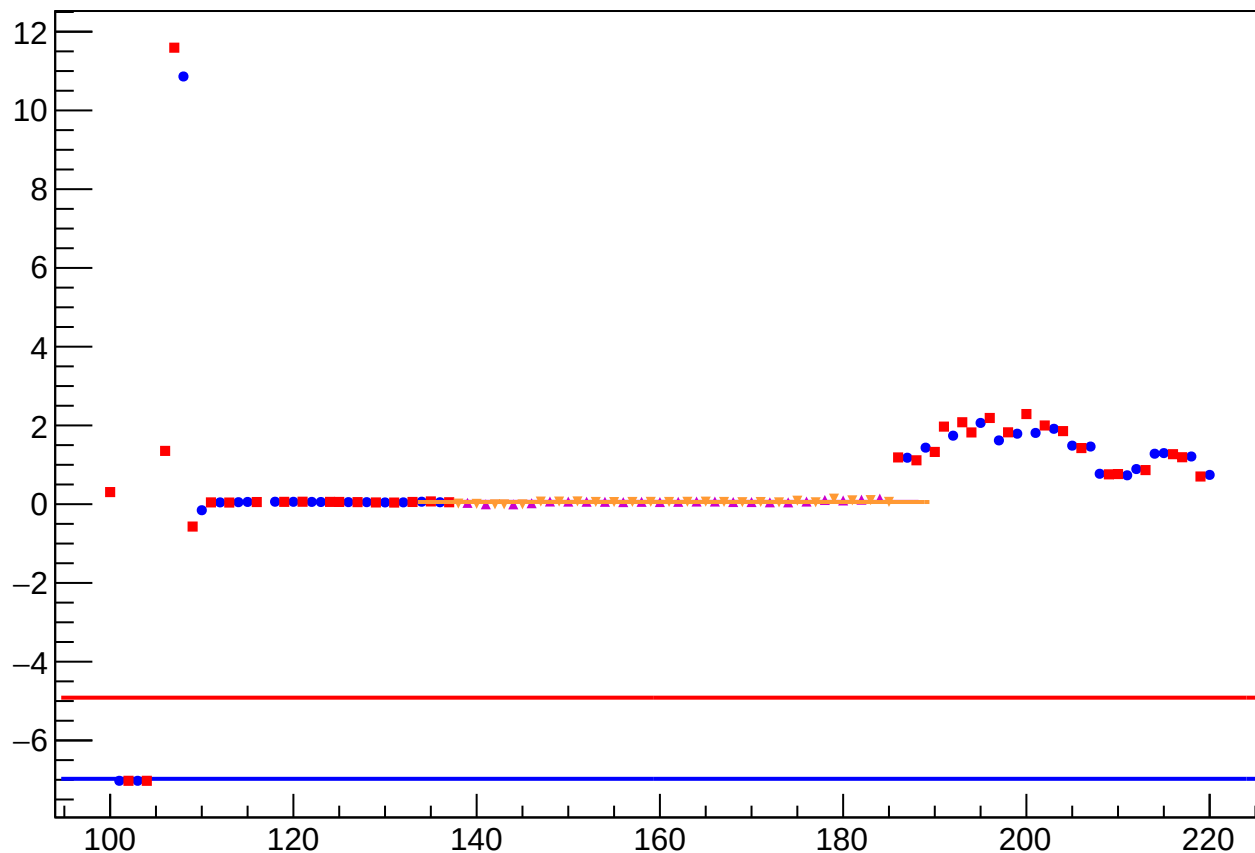
Right: 0.002+/-0.000 χ^2/NDF : 48364358.1/70

In: 0.001+/-0.000 χ^2/NDF :26457460.3/56

Out: 0.001+/-0.000 χ^2/NDF :28195920.9/61

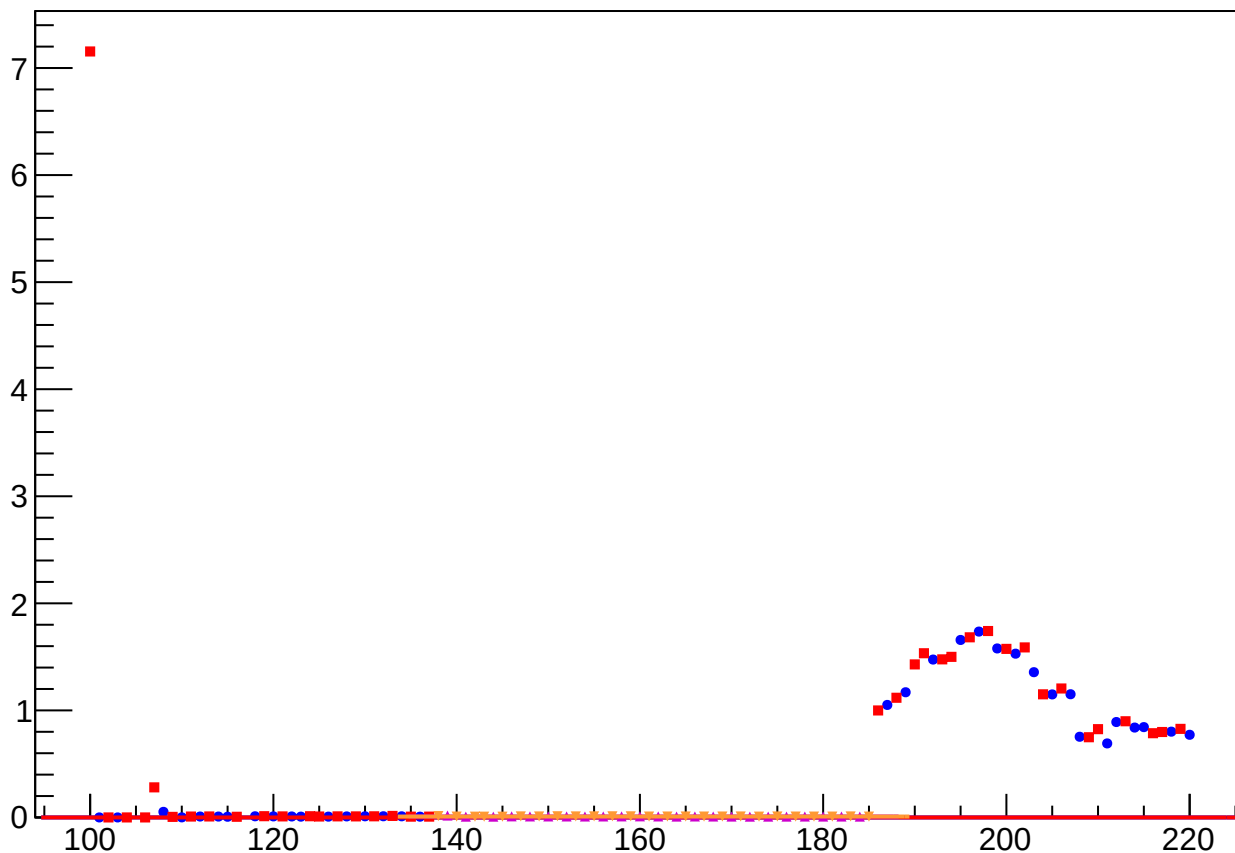
All: 0.001+/-0.000 χ^2/NDF : 54656941.2/118

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763228461562.4/33$ 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 $\chi^2/\text{NDF}: 430304325054751.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348939813044.2/36$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605747973617.6/56$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175623392893.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435822792907.0/100$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 32201989.0/33

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32924838.8/36

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

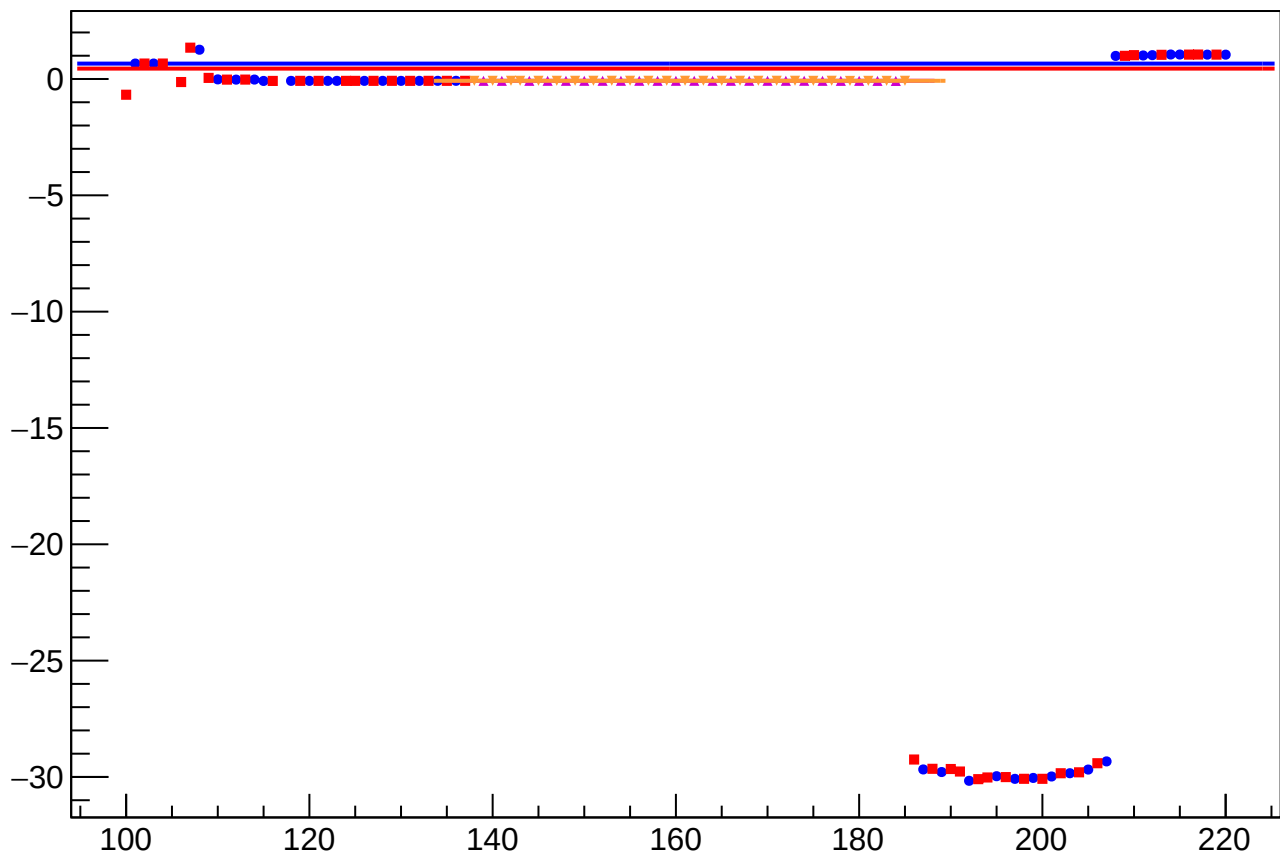
Right: 0.000+/-0.000 χ^2/NDF : 65127145.3/70

In: 0.000+/-0.000 χ^2/NDF : 59836848.9/56

Out: 0.000+/-0.000 χ^2/NDF : 61951313.9/61

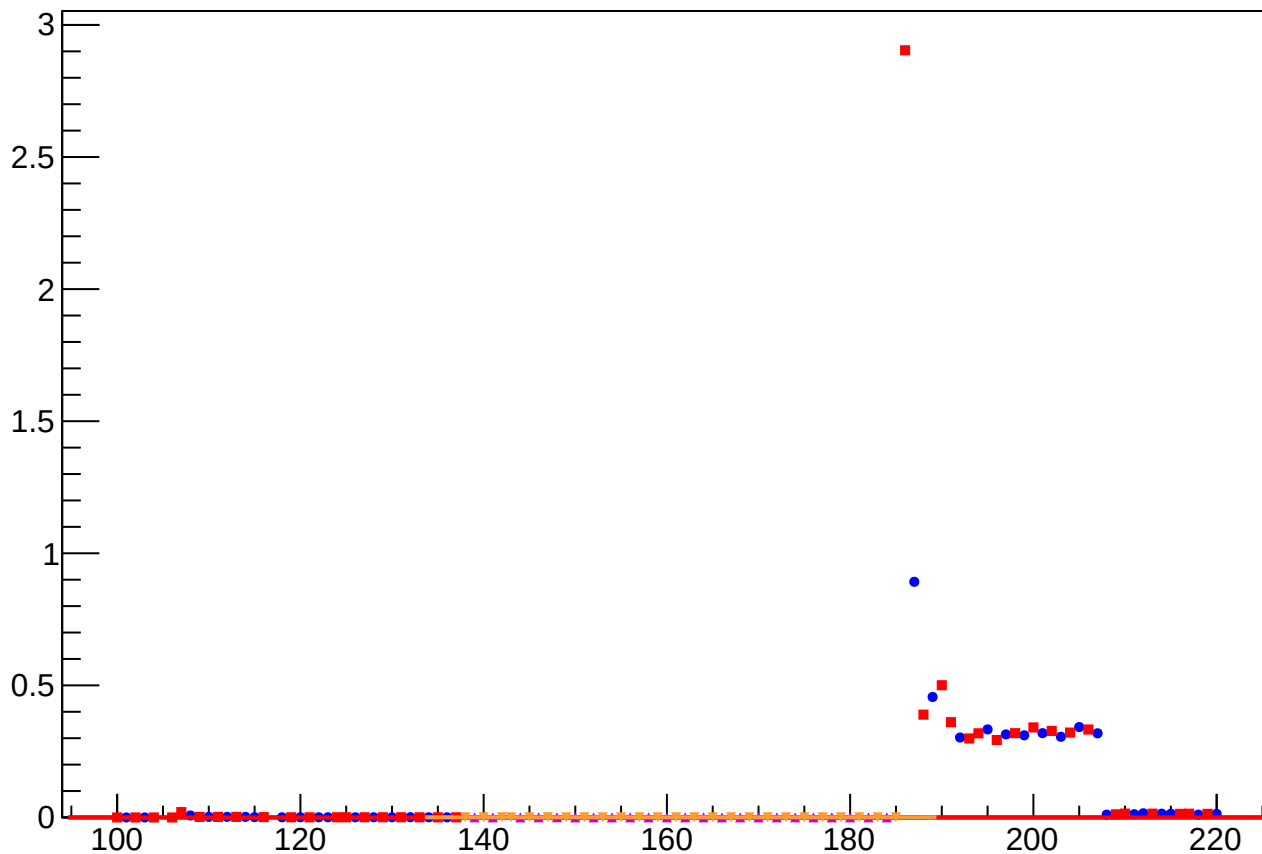
All: 0.000+/-0.000 χ^2/NDF : 121788666.6/118

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5649975934610.6/33	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 : 474066313892374.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405486762014241.5/36	In: 0.647+/-0.000	χ^2/NDF : 33910247631079.3/56
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420681605281664.0/6
		All: 0.537+/-0.000	χ^2/NDF : 51611691905727

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33402106.8/33

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33438861.5/36

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

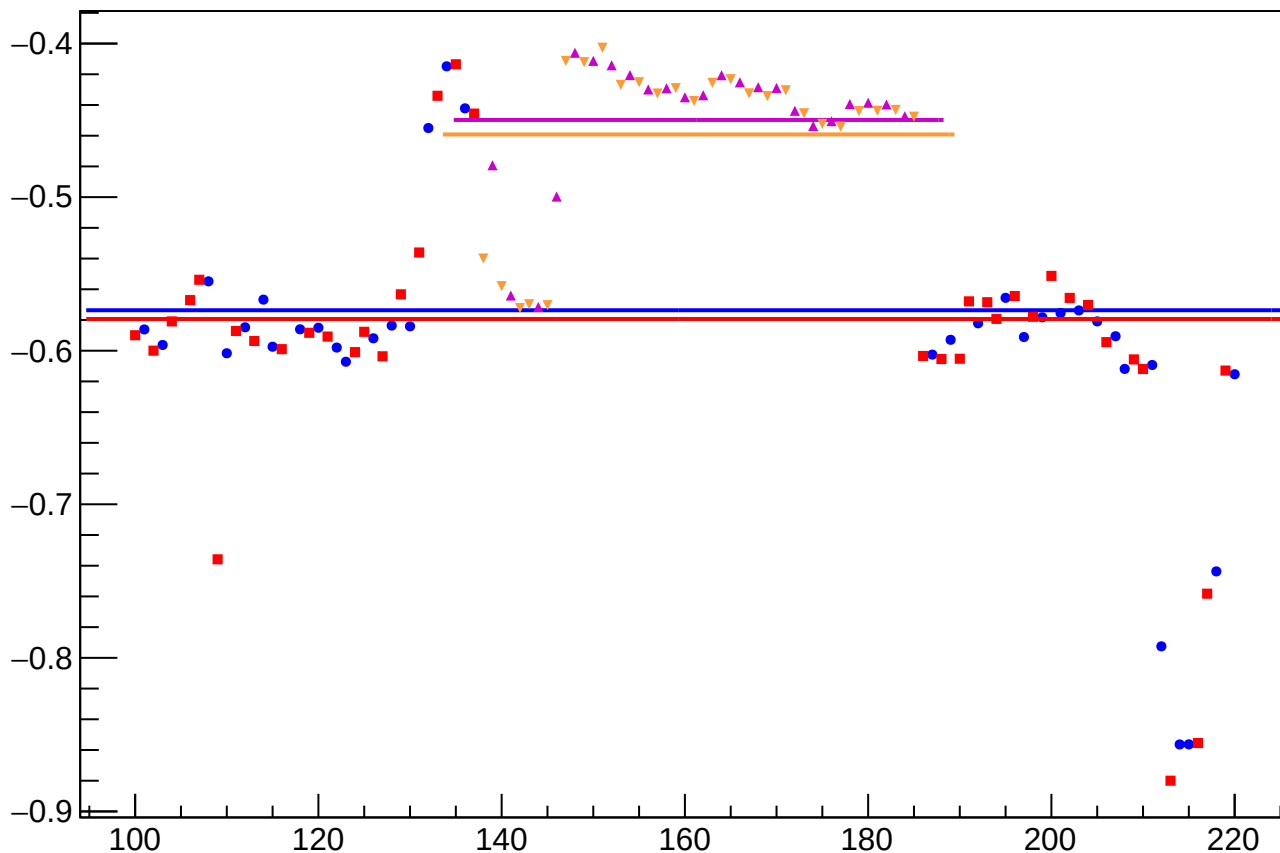
Right: 0.000+/-0.000 χ^2/NDF : 66840988.4/70

In: 0.000+/-0.000 χ^2/NDF :64363670.3/56

Out: 0.000+/-0.000 χ^2/NDF :66139388.1/61

All: 0.000+/-0.000 χ^2/NDF : 130503538.7/118

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574+/-0.000 χ^2 /NDF: 115128587.5/33

Left Out: -0.459+/-0.000 χ^2 /NDF: 113808762.6/24

Right Out: -0.579+/-0.000 χ^2 /NDF: 119915621.4/36

Left In: -0.450+/-0.000 χ^2 /NDF: 76151485.7/22

Left: -0.455+/-0.000 χ^2 /NDF: 191688333.2/47

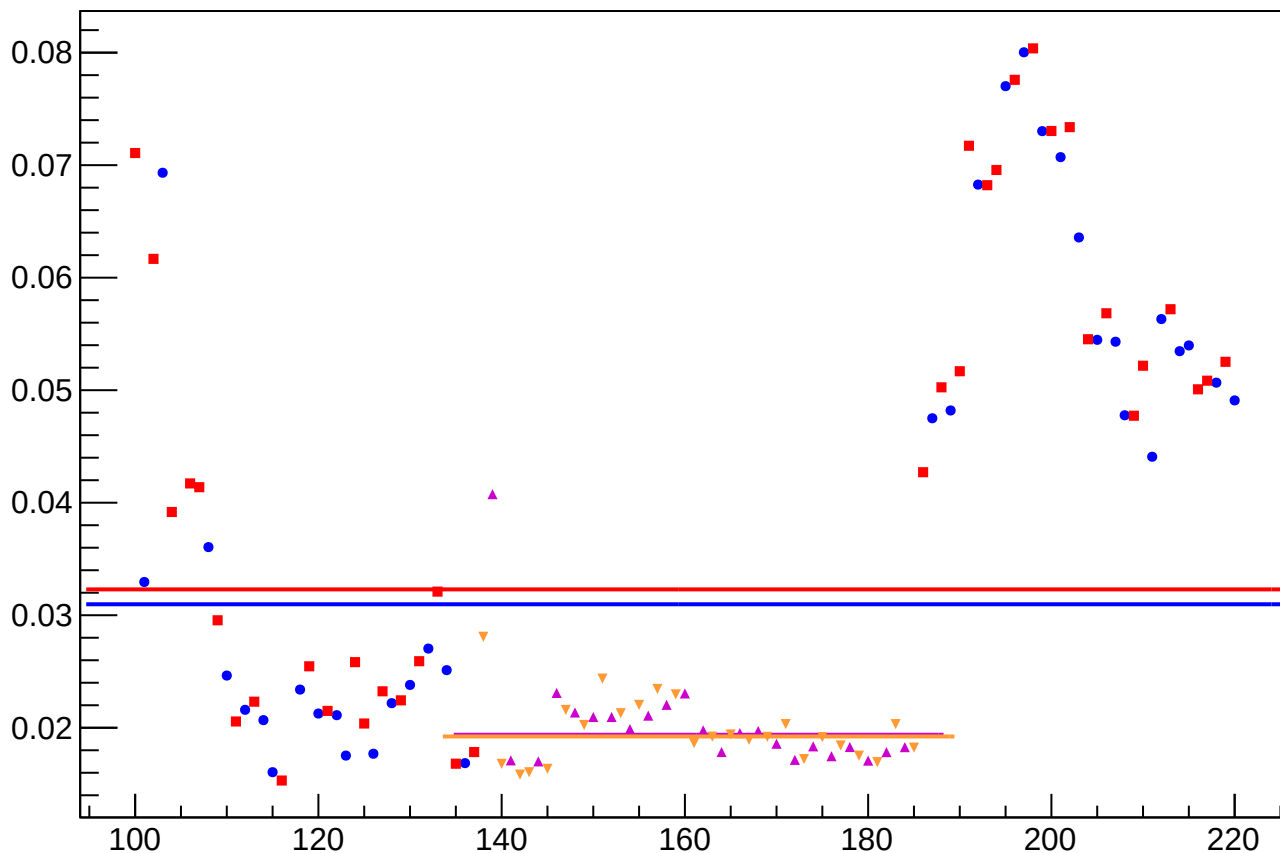
Right: -0.576+/-0.000 χ^2 /NDF: 235267295.7/70

In: -0.484+/-0.000 χ^2 /NDF: 348400411.1/56

Out: -0.489+/-0.000 χ^2 /NDF: 379453690.6/61

All: -0.487+/-0.000 χ^2 /NDF: 728701527.9/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 7991513.1/33

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7835570.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

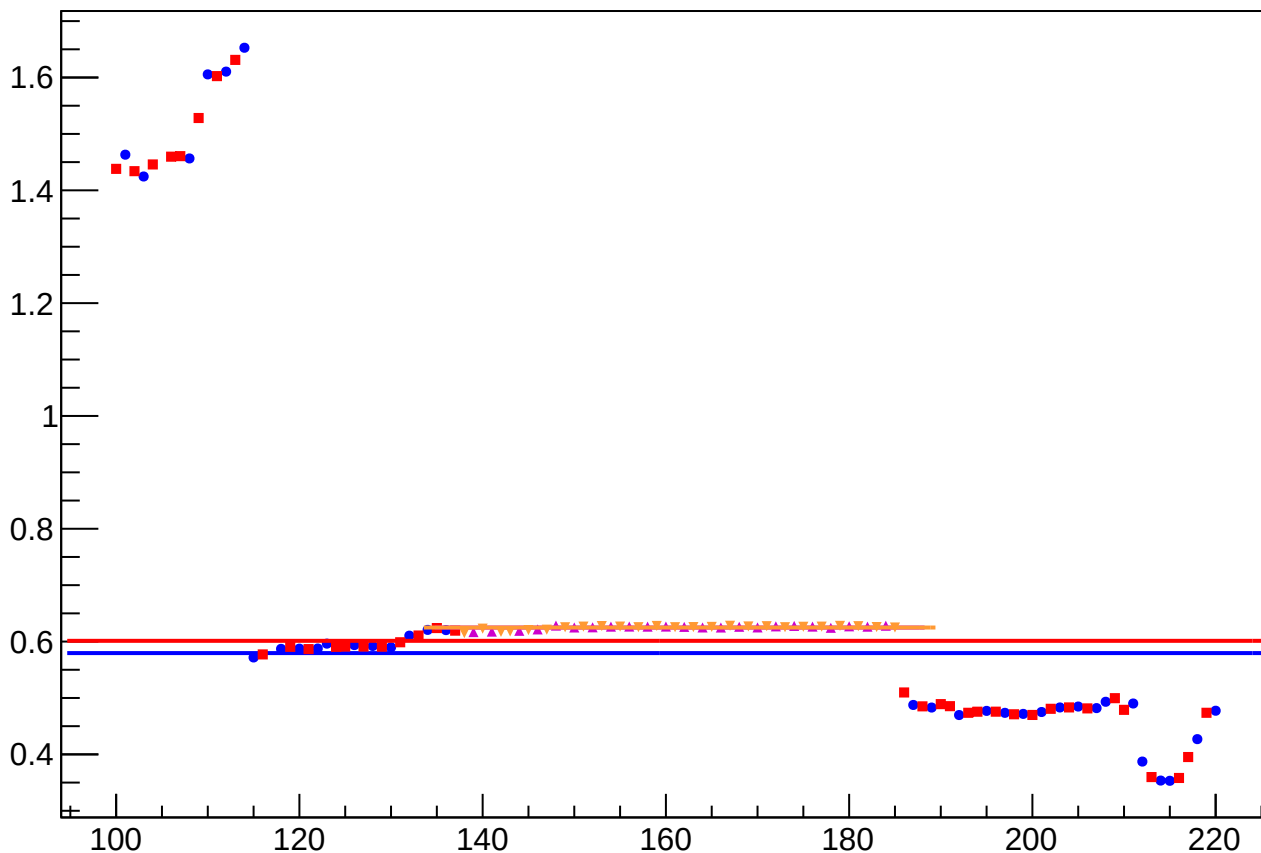
Right: 0.032+/-0.000 χ^2/NDF : 15851164.4/70

In: 0.023+/-0.000 χ^2/NDF : 11400813.3/56

Out: 0.023+/-0.000 χ^2/NDF : 11786116.9/61

All: 0.023+/-0.000 χ^2/NDF : 23187042.1/118

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.580 $\pm$ 0.000 χ^2 /NDF: 5617608355.2/33

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.601 $\pm$ 0.000 χ^2 /NDF: 6628936062.7/36

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

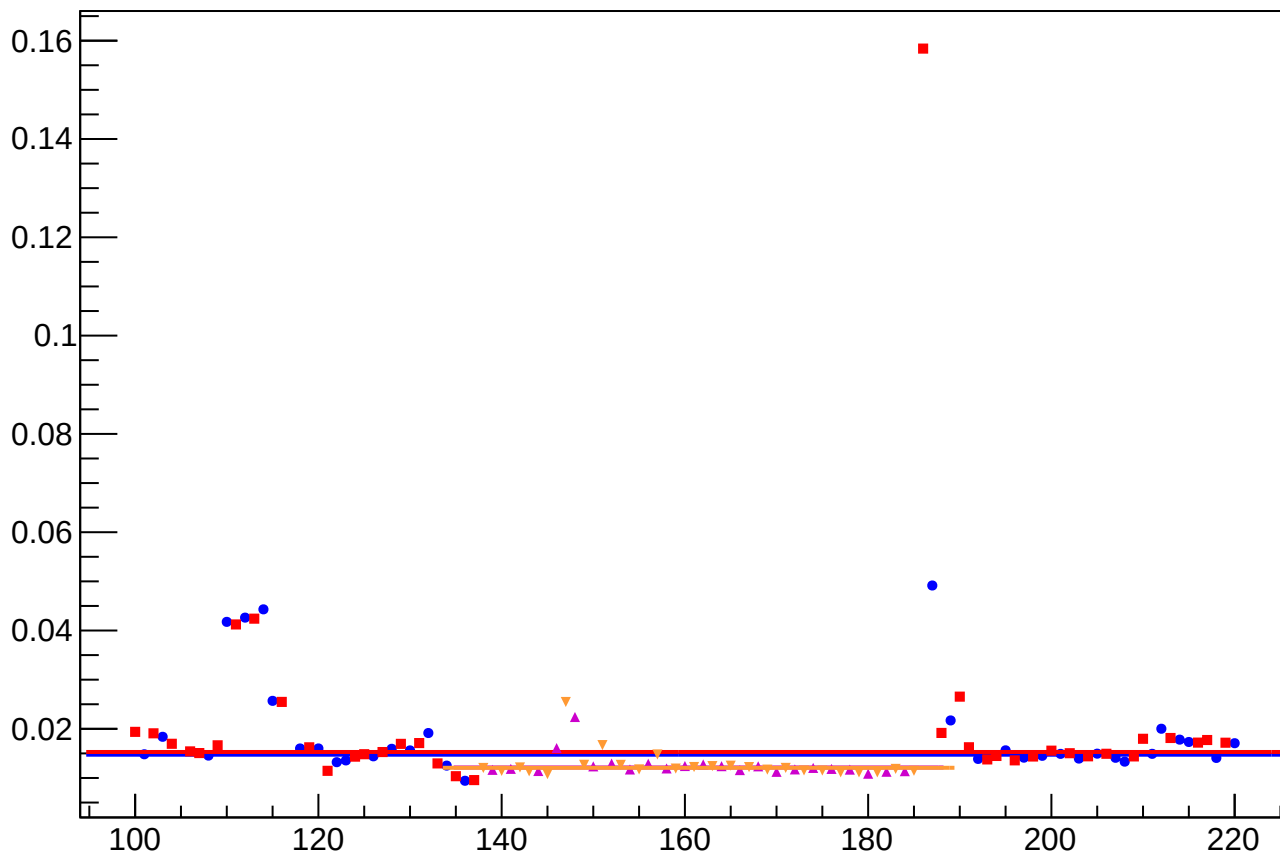
Right: 0.590 $\pm$ 0.000 χ^2 /NDF: 12264679173.9/70

In: 0.606 $\pm$ 0.000 χ^2 /NDF:5714350458.7/56

Out: 0.616 $\pm$ 0.000 χ^2 /NDF:6656138652.6/61

All: 0.611 $\pm$ 0.000 χ^2 /NDF: 12379406927.4/131

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1882630.0/33

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2228304.9/36

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

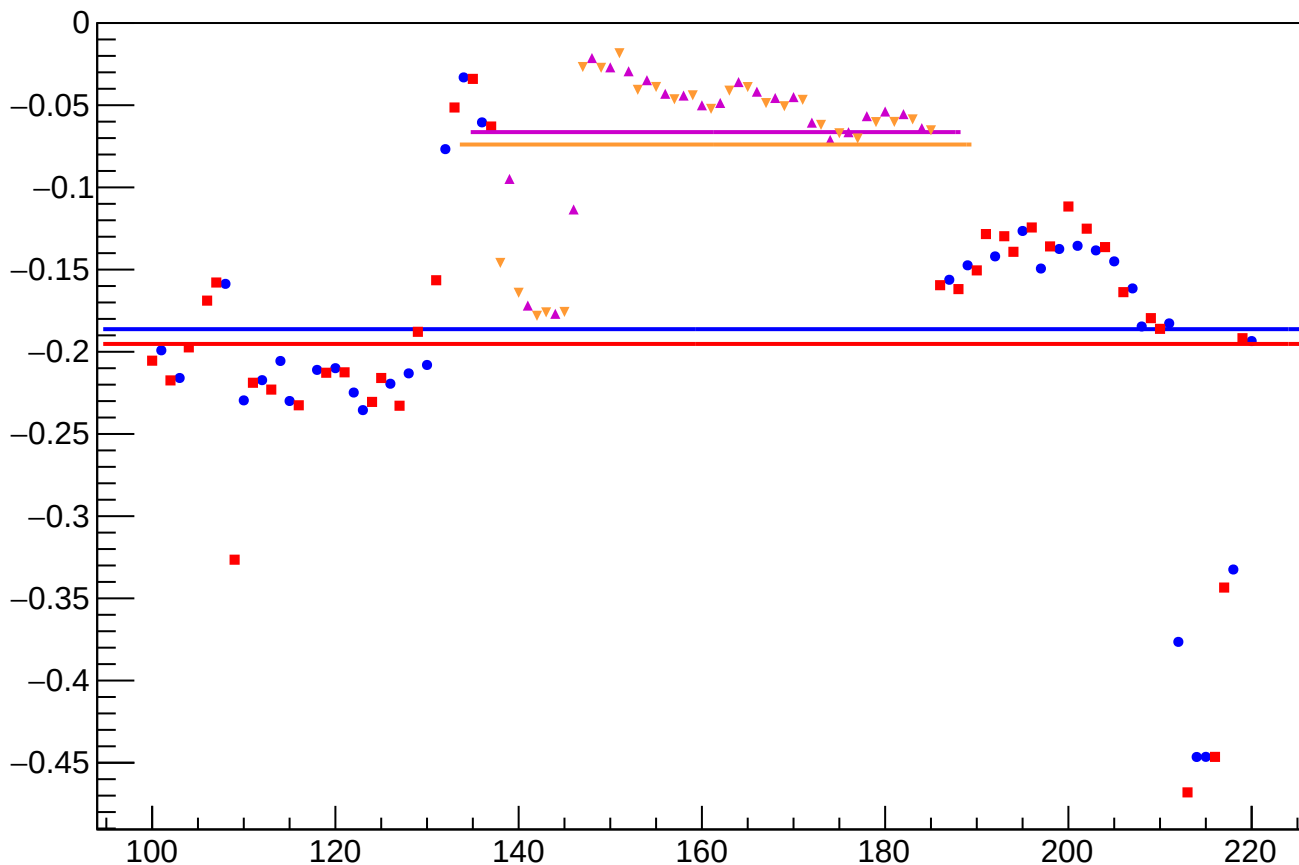
Right: 0.015+/-0.000 χ^2/NDF : 4134347.7/70

In: 0.013+/-0.000 χ^2/NDF : 3003167.6/56

Out: 0.013+/-0.000 χ^2/NDF : 3843241.8/61

All: 0.013+/-0.000 χ^2/NDF : 6848372.7/118

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2/NDF : 127810754.9/33

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134106557.2/36

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

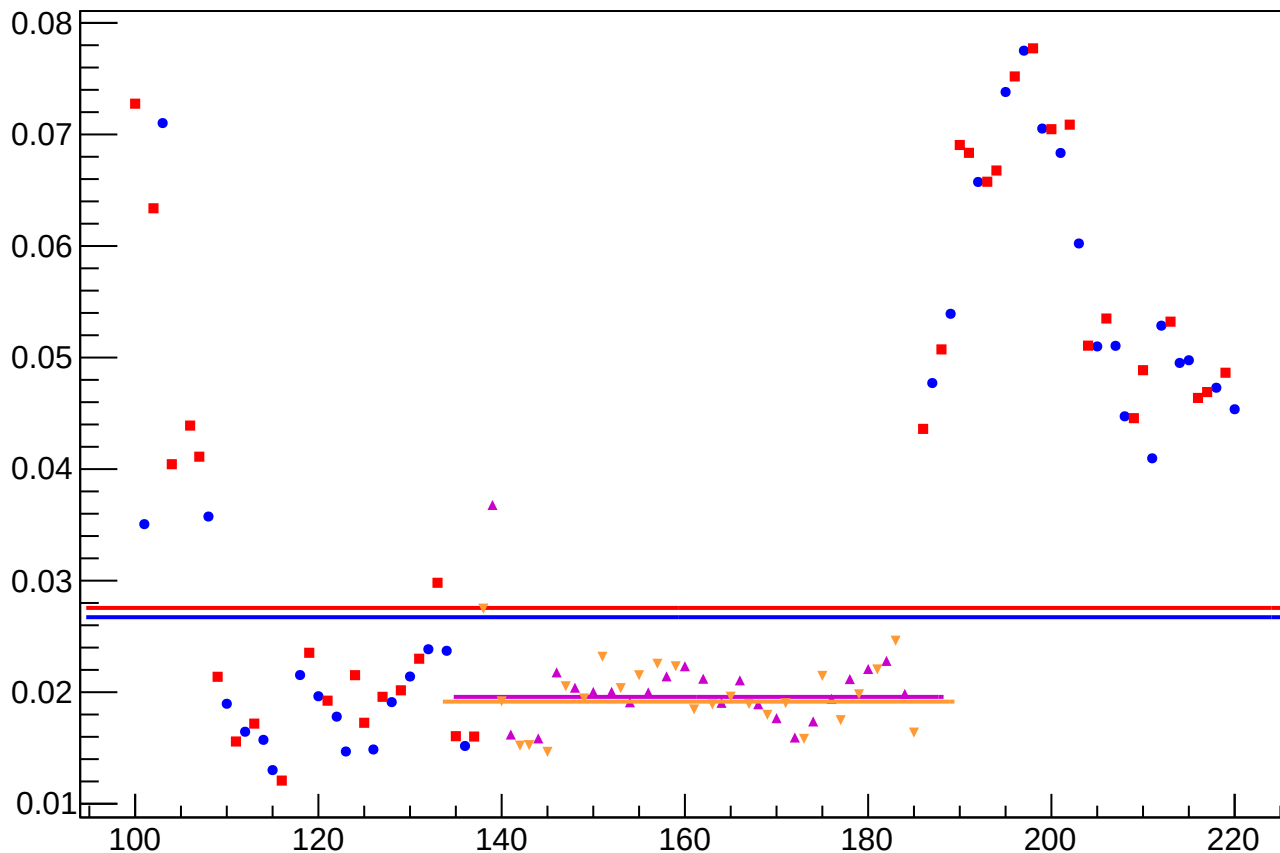
Right: -0.191+/-0.000 χ^2/NDF : 262630671.7/70

In: -0.105+/-0.000 χ^2/NDF : 378565929.8/56

Out: -0.110+/-0.000 χ^2/NDF : 421758453.9/61

All: -0.108+/-0.000 χ^2/NDF : 800941227.3/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2/NDF : 9394850.0/33

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 641027.3/24

Right Out: 0.028 $\pm$ 0.000 χ^2/NDF : 9593347.2/36

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

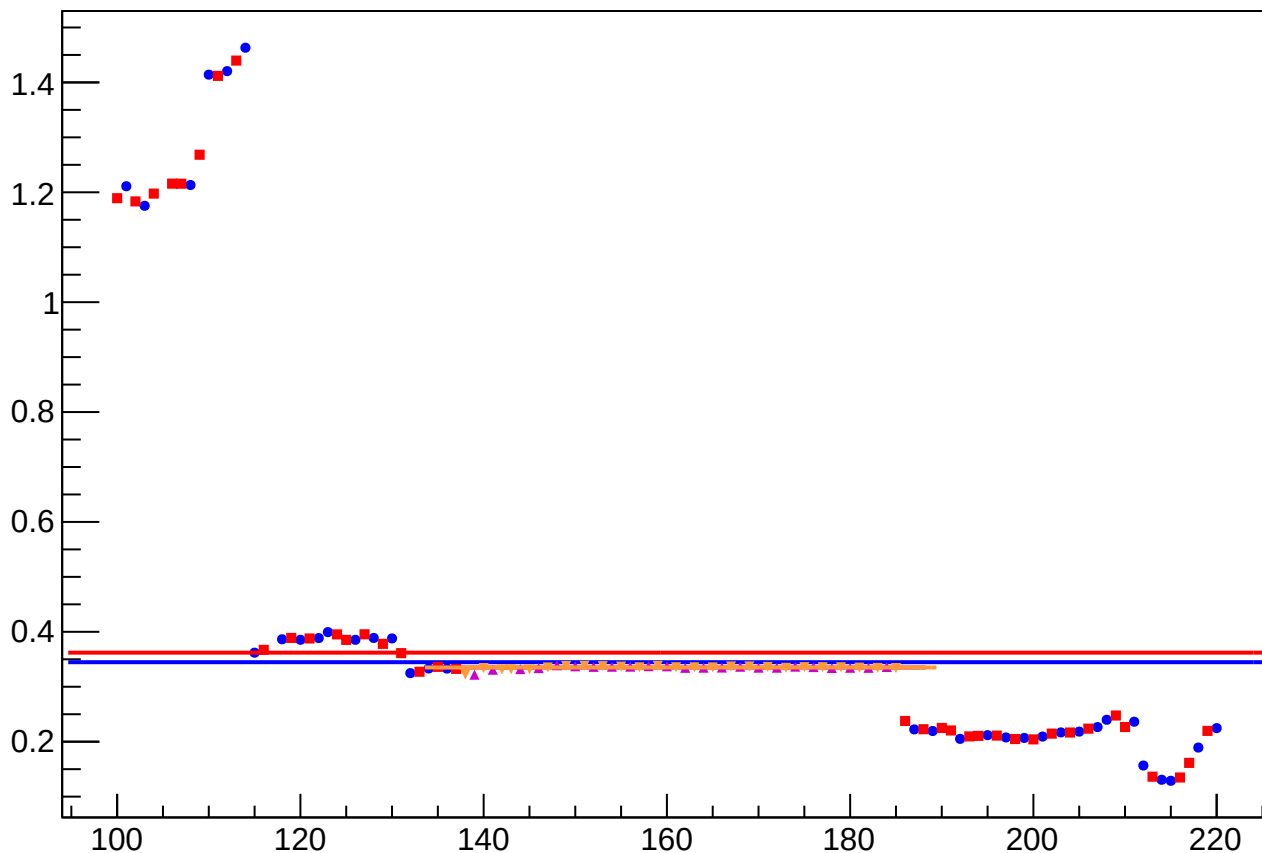
Right: 0.027 $\pm$ 0.000 χ^2/NDF : 19000445.0/70

In: 0.022 $\pm$ 0.000 χ^2/NDF : 11285048.6/56

Out: 0.022 $\pm$ 0.000 χ^2/NDF : 11958839.3/61

All: 0.022 $\pm$ 0.000 χ^2/NDF : 23247463.1/118

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.345+/-0.000 χ^2/NDF : 8092344405.8/33

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.362+/-0.000 χ^2/NDF : 9136216152.3/36

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

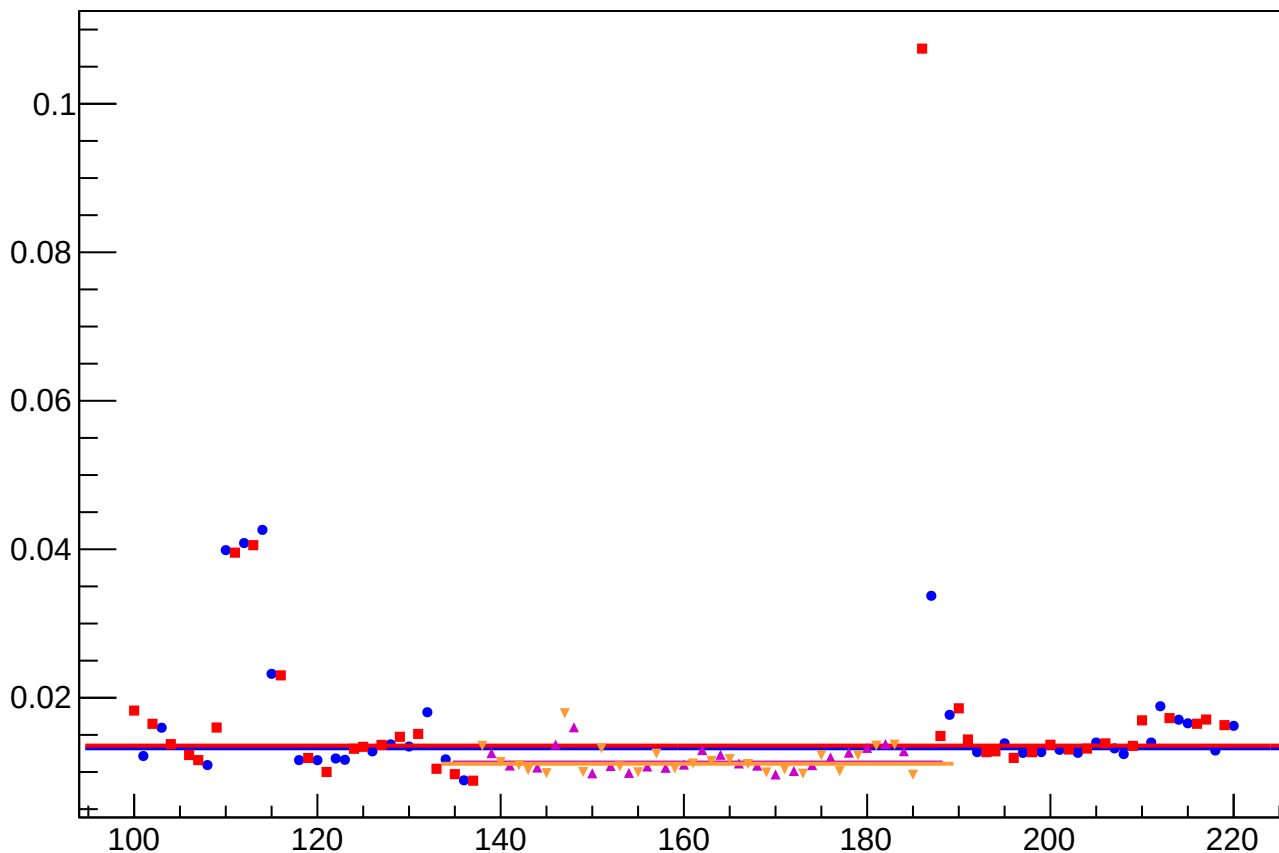
Right: 0.353+/-0.000 χ^2/NDF : 17243130595.7/70

In: 0.339+/-0.000 χ^2/NDF : 8098809674.4/56

Out: 0.346+/-0.000 χ^2/NDF : 9178680597.7/61

All: 0.343+/-0.000 χ^2/NDF : 17282766055.4/13

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1886821.0/33

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2255800.8/36

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

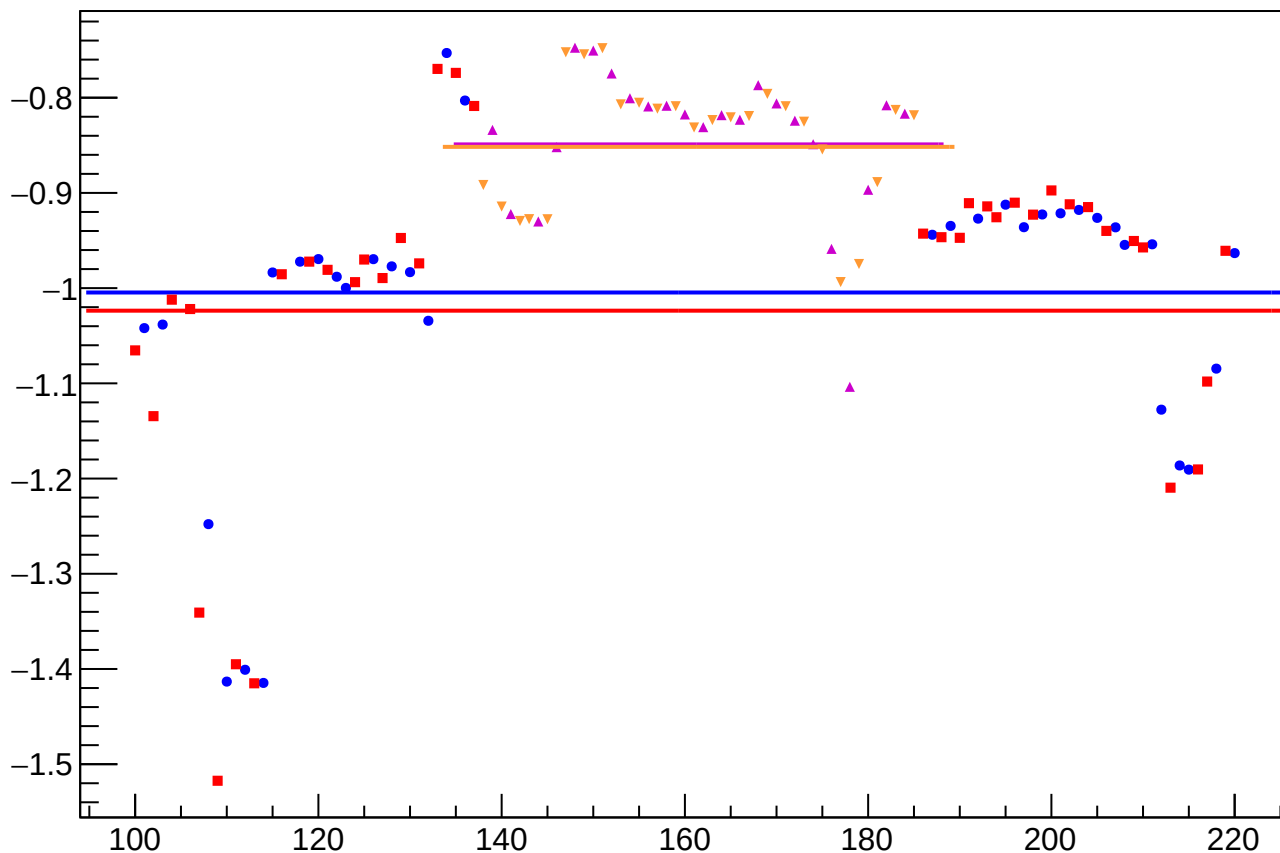
Right: 0.013+/-0.000 χ^2/NDF : 4155165.5/70

In: 0.012+/-0.000 χ^2/NDF : 2804167.3/56

Out: 0.012+/-0.000 χ^2/NDF : 3540603.8/61

All: 0.012+/-0.000 χ^2/NDF : 6344778.5/118

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.005+/-0.000 χ^2/NDF : 429350786.2/33

Left Out: -0.852+/-0.000 χ^2/NDF :189276591.7/24

Right Out: -1.024+/-0.000 χ^2/NDF : 578381828.8/36

Left In: -0.849+/-0.000 χ^2/NDF :256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

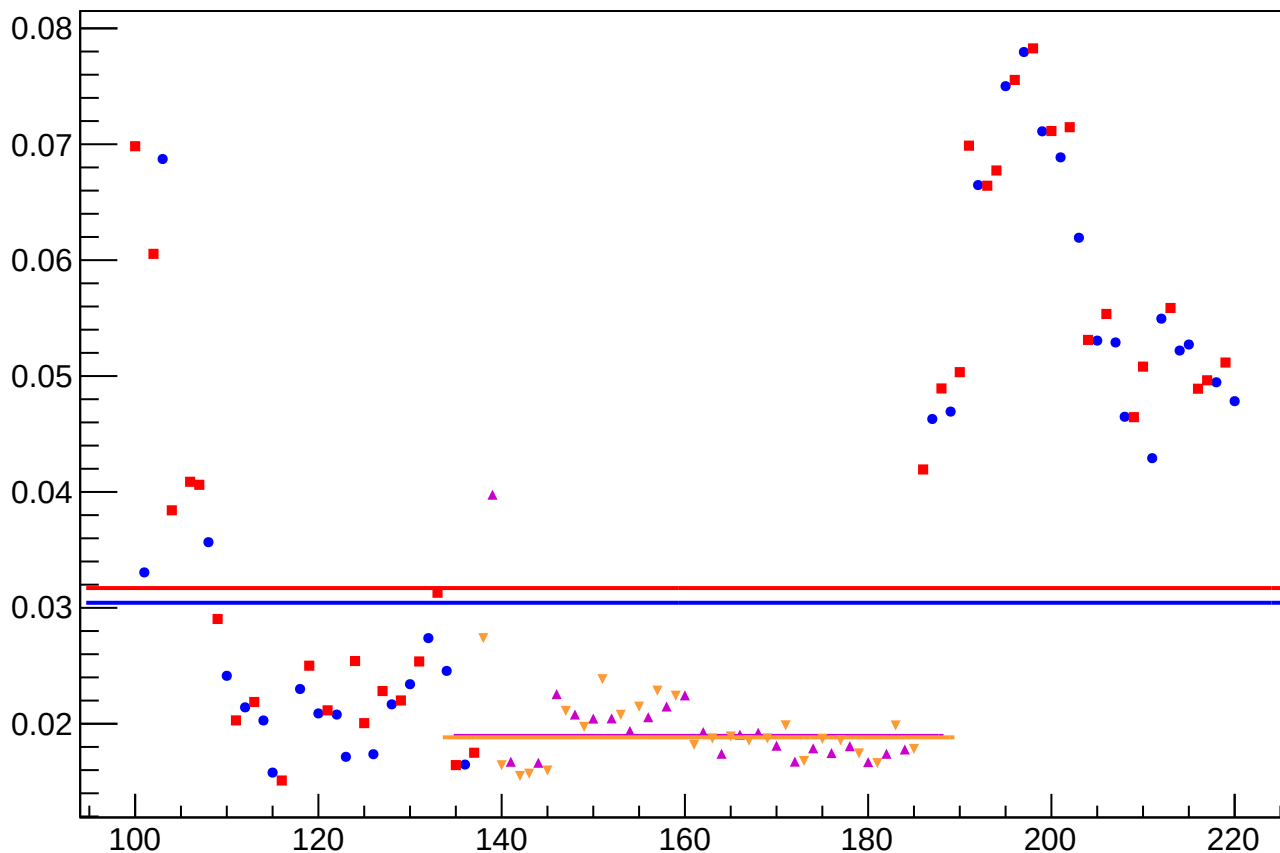
Right: -1.014+/-0.000 χ^2/NDF : 1010341086.2/70

In: -0.891+/-0.000 χ^2/NDF :943443008.5/56

Out: -0.895+/-0.000 χ^2/NDF :1078507018.8/61

All: -0.893+/-0.000 χ^2/NDF : 2022256103.3/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7916481.0/33

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.032 $\pm$ 0.000 χ^2 /NDF: 7743411.6/36

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

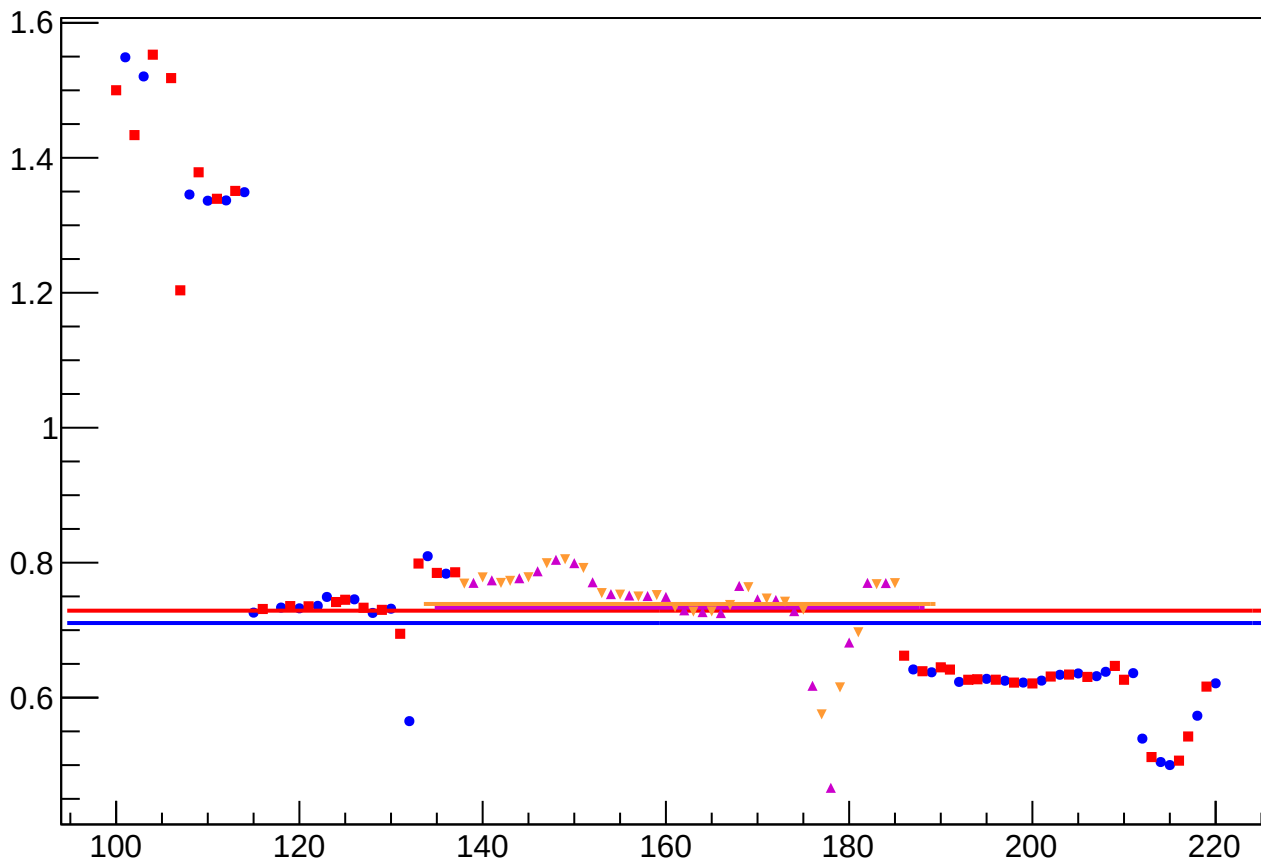
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 15682944.9/70

In: 0.022 $\pm$ 0.000 χ^2 /NDF:11373353.6/56

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11718012.4/61

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 23091394.8/118

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.711 $\pm$ 0.000 χ^2 /NDF: 3925481811.5/33

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.729 $\pm$ 0.000 χ^2 /NDF: 4221995220.5/36

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

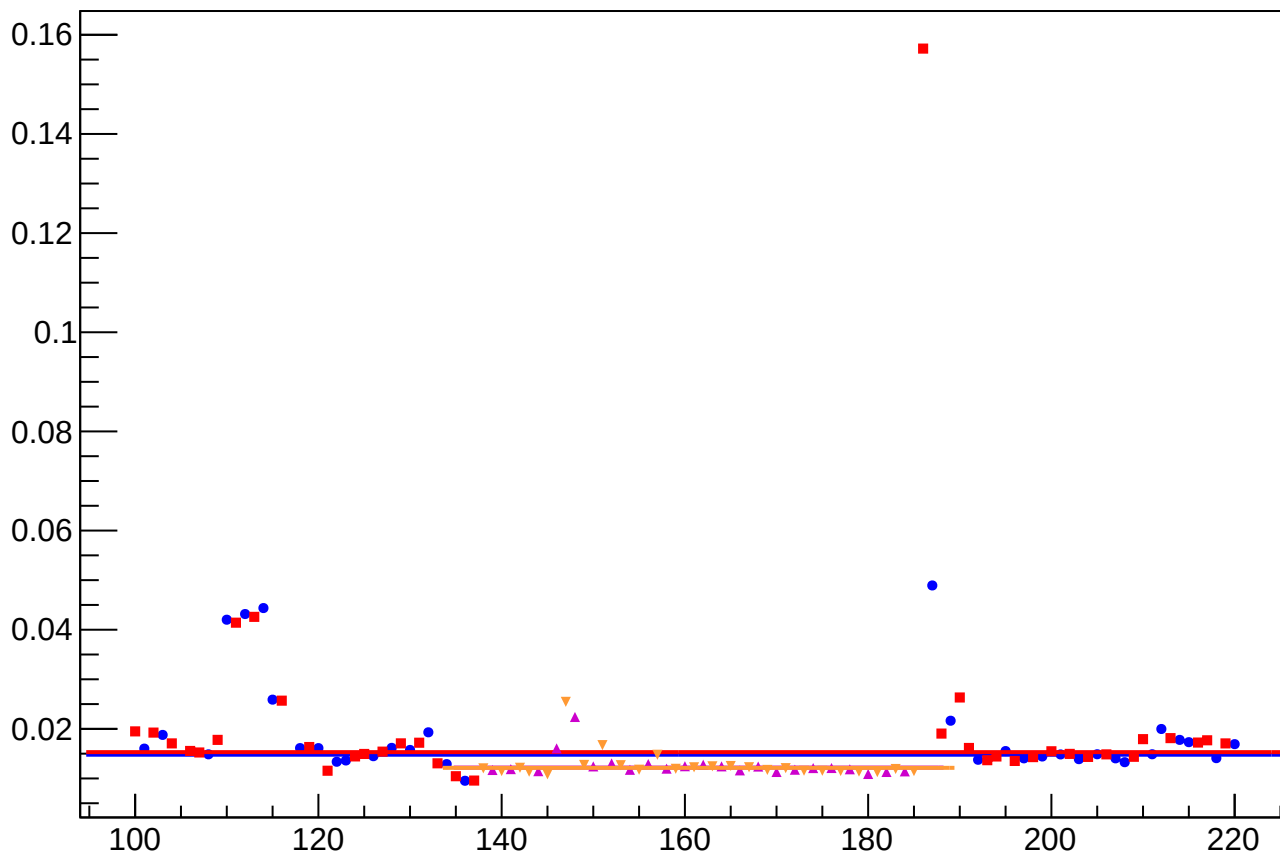
Right: 0.719 $\pm$ 0.000 χ^2 /NDF: 8160296708.6/70

In: 0.724 $\pm$ 0.000 χ^2 /NDF:4519750276.7/56

Out: 0.735 $\pm$ 0.000 χ^2 /NDF:4559619577.2/61

All: 0.730 $\pm$ 0.000 χ^2 /NDF: 9091014423.5/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015 ± 0.000 $\chi^2/\text{NDF}: 1872547.4/33$

Left Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 638211.9/24$

Right Out: 0.015 ± 0.000 $\chi^2/\text{NDF}: 2227729.0/36$

Left In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 481639.6/22$

Left: 0.012 ± 0.000 $\chi^2/\text{NDF}: 1120132.0/47$

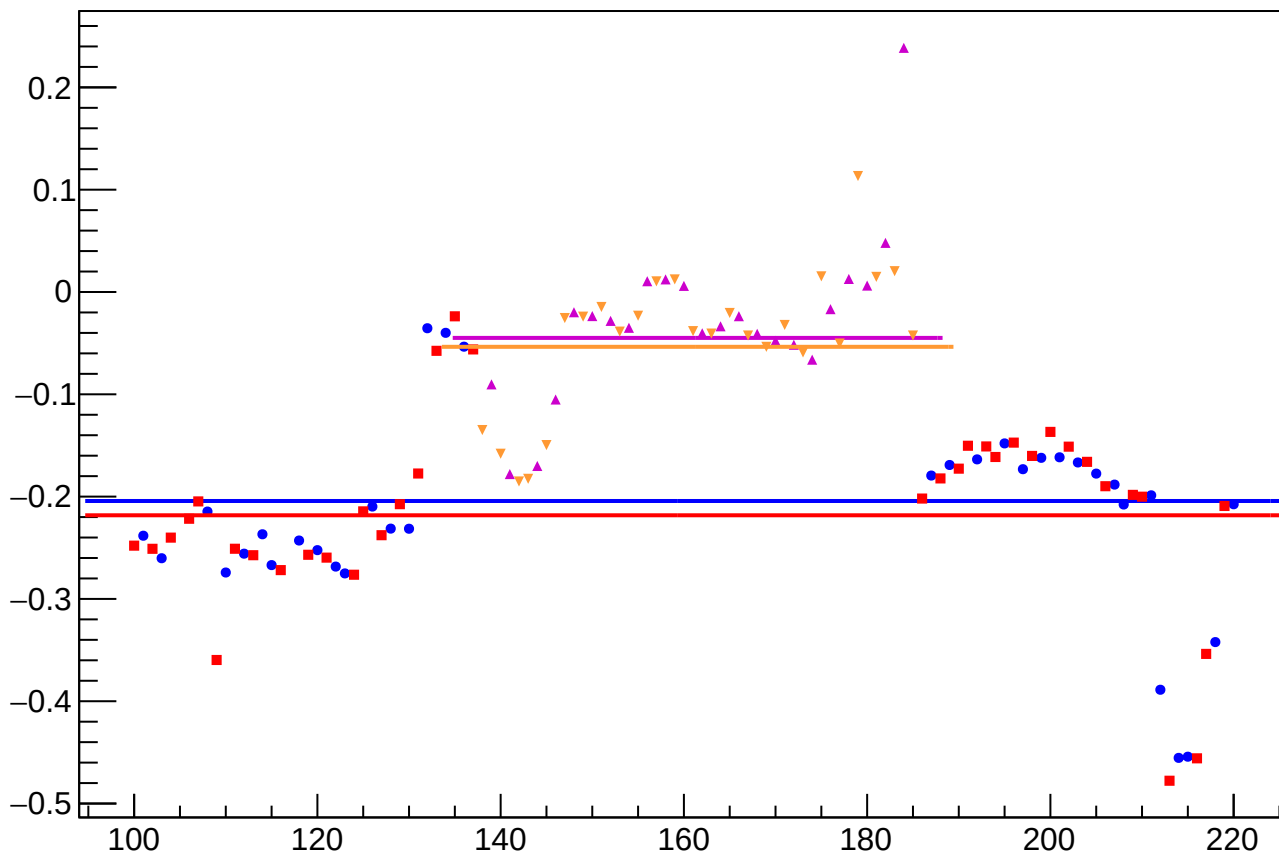
Right: 0.015 ± 0.000 $\chi^2/\text{NDF}: 4120759.8/70$

In: 0.013 ± 0.000 $\chi^2/\text{NDF}: 2980042.6/56$

Out: 0.013 ± 0.000 $\chi^2/\text{NDF}: 3787534.0/61$

All: 0.013 ± 0.000 $\chi^2/\text{NDF}: 6769596.3/118$

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160311648.8/33$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 155523978.7/36$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

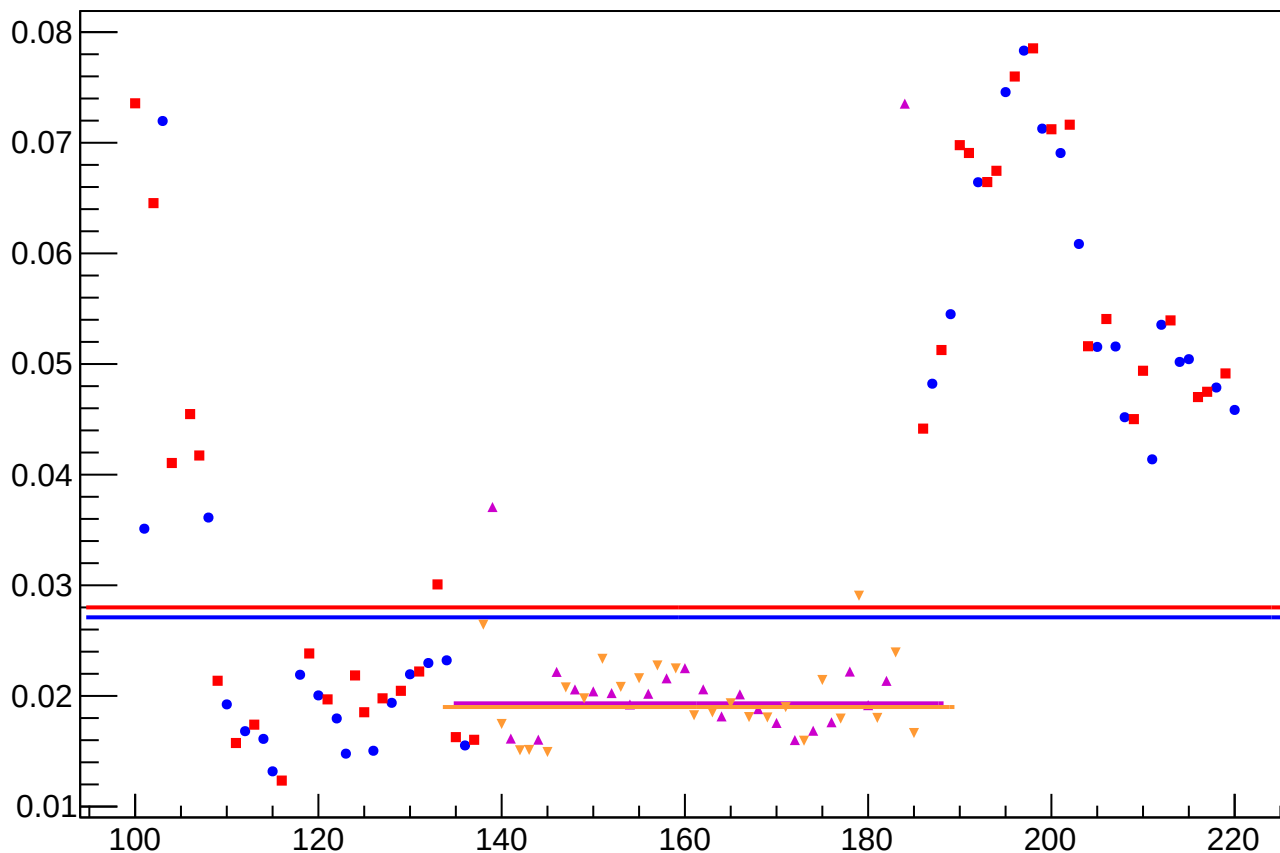
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 317510320.8/70$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 590347214.4/56$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 646132126.6/61$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1237527162.9/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9329398.4/33

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9526207.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

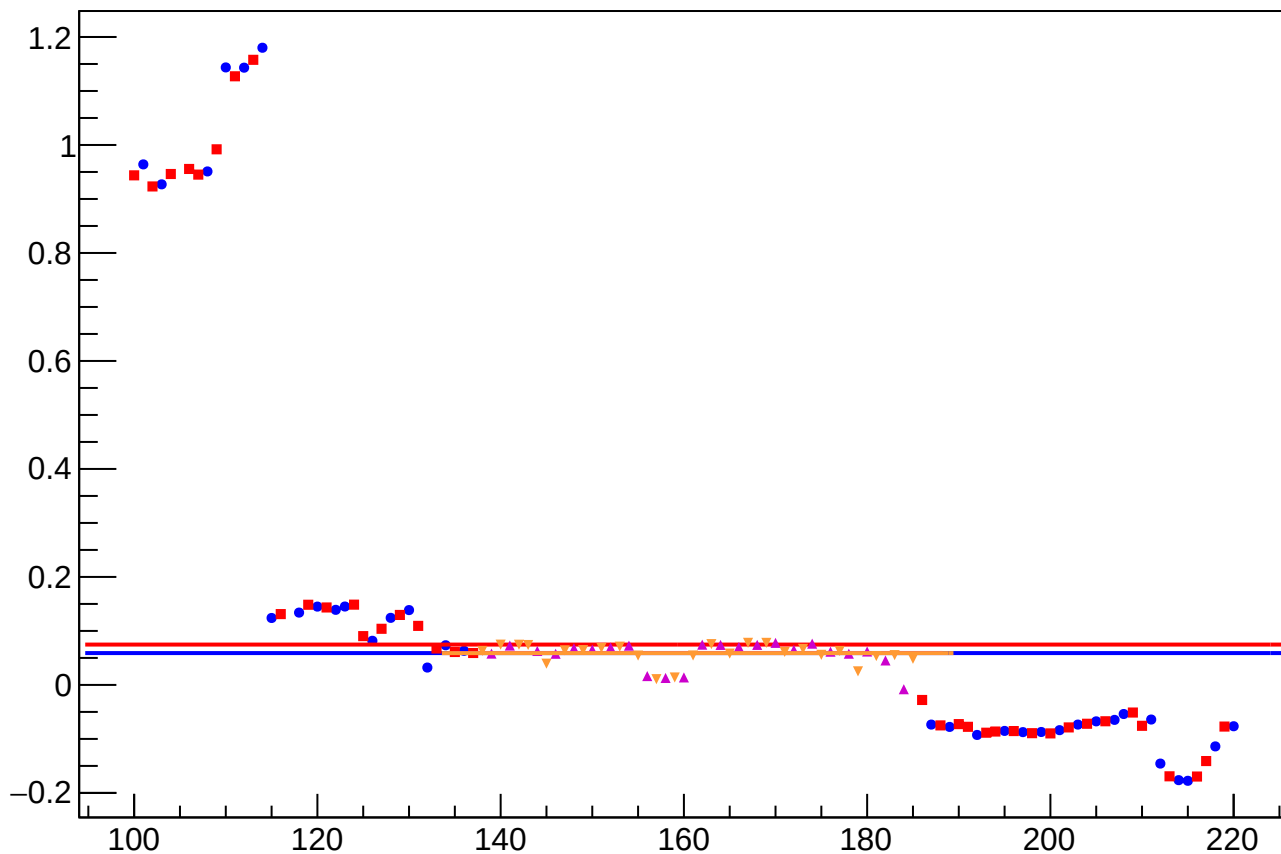
Right: 0.028+/-0.000 χ^2/NDF : 18869487.2/70

In: 0.022+/-0.000 χ^2/NDF : 11661957.7/56

Out: 0.022+/-0.000 χ^2/NDF : 12156325.6/61

All: 0.022+/-0.000 χ^2/NDF : 23819977.9/118

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.059+/-0.000 χ^2/NDF : 8850766836.9/33

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.075+/-0.000 χ^2/NDF : 9721322184.9/36

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

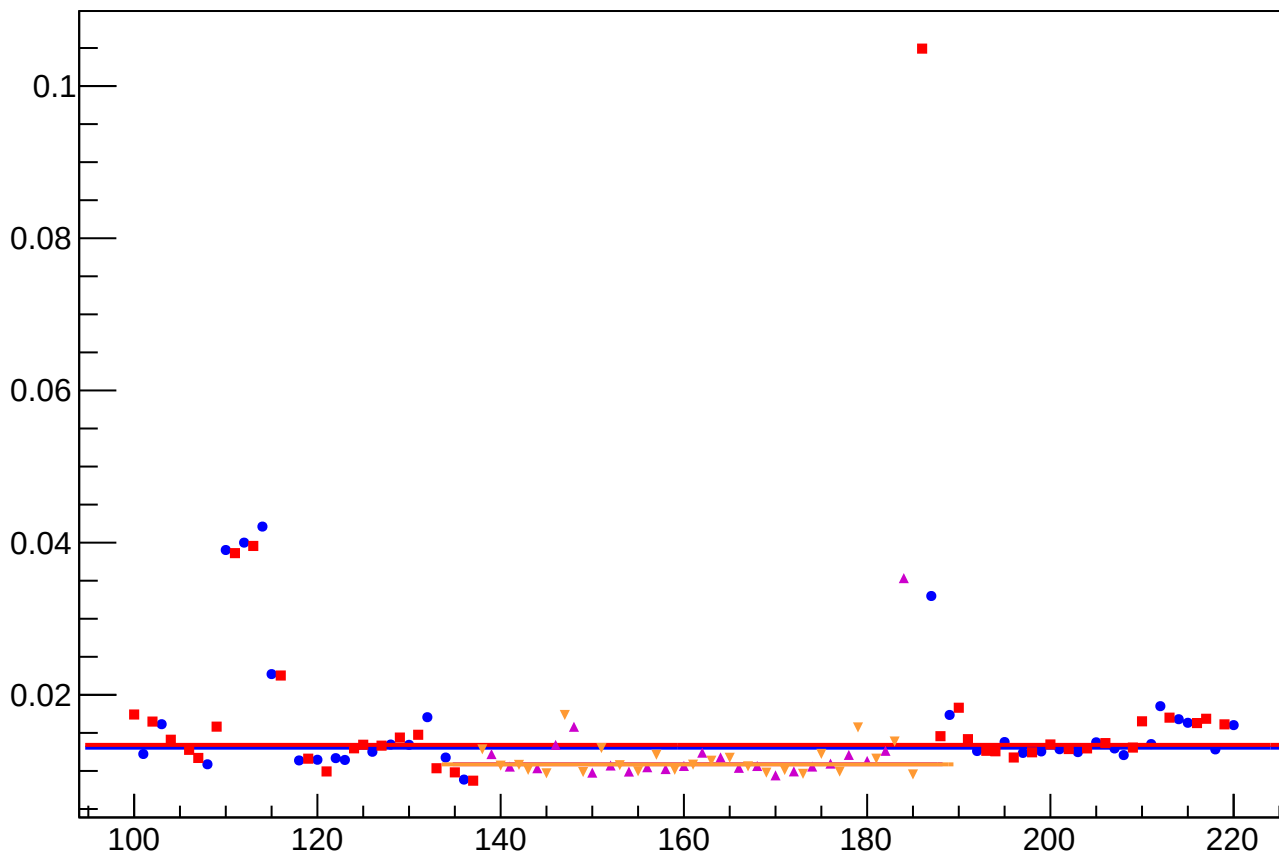
Right: 0.067+/-0.000 χ^2/NDF : 18584312212.2/70

In: 0.059+/-0.000 χ^2/NDF : 8909410398.1/56

Out: 0.065+/-0.000 χ^2/NDF : 9782730726.8/61

All: 0.062+/-0.000 χ^2/NDF : 18696654899.1/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1838523.9/33

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2196452.6/36

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

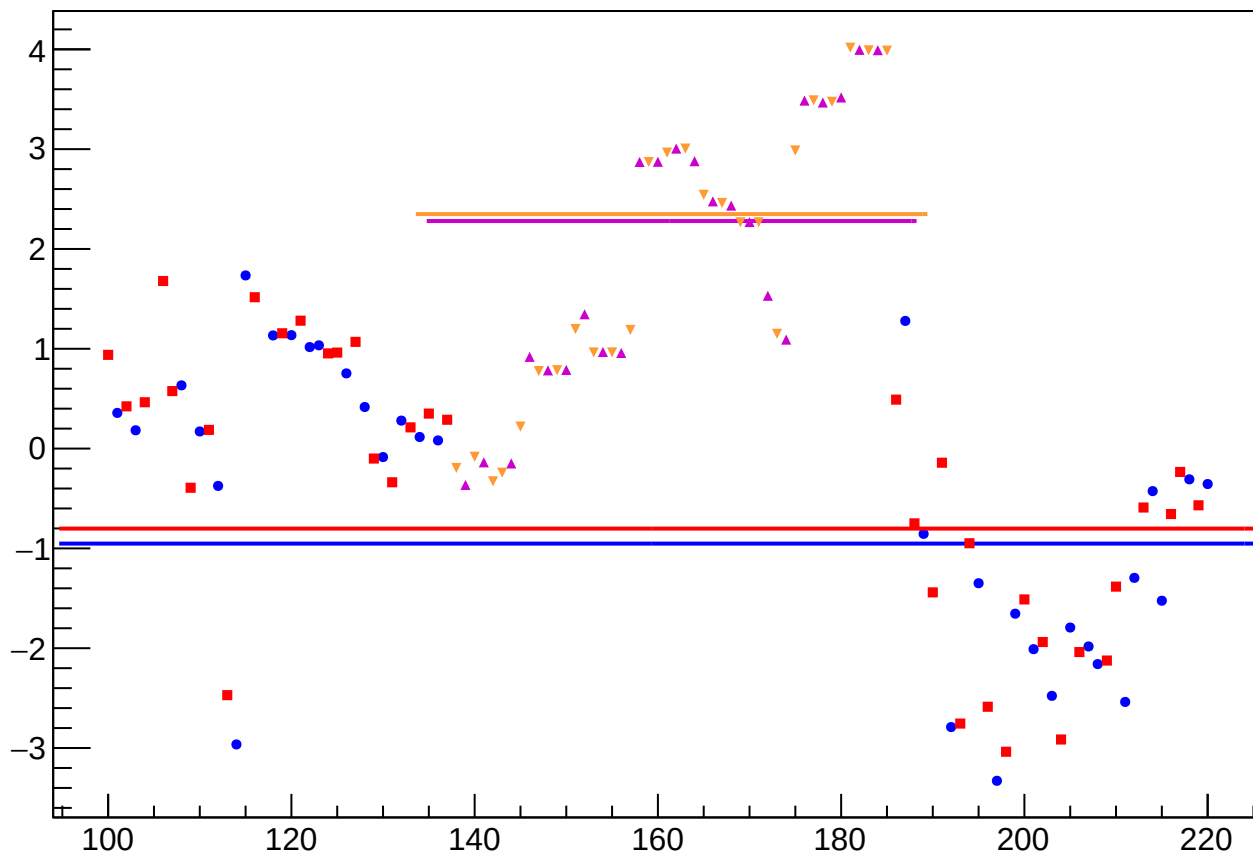
Right: 0.013+/-0.000 χ^2/NDF : 4048299.9/70

In: 0.012+/-0.000 χ^2/NDF : 2912164.5/56

Out: 0.012+/-0.000 χ^2/NDF : 3560643.9/61

All: 0.012+/-0.000 χ^2/NDF : 6474445.6/118

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.952 ± 0.000 χ^2/NDF : 8130254026.0/33

Left Out: 2.349 ± 0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.802 ± 0.000 χ^2/NDF : 8301494693.5/36

Left In: 2.280 ± 0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314 ± 0.000 χ^2/NDF : 125168787170.9/47

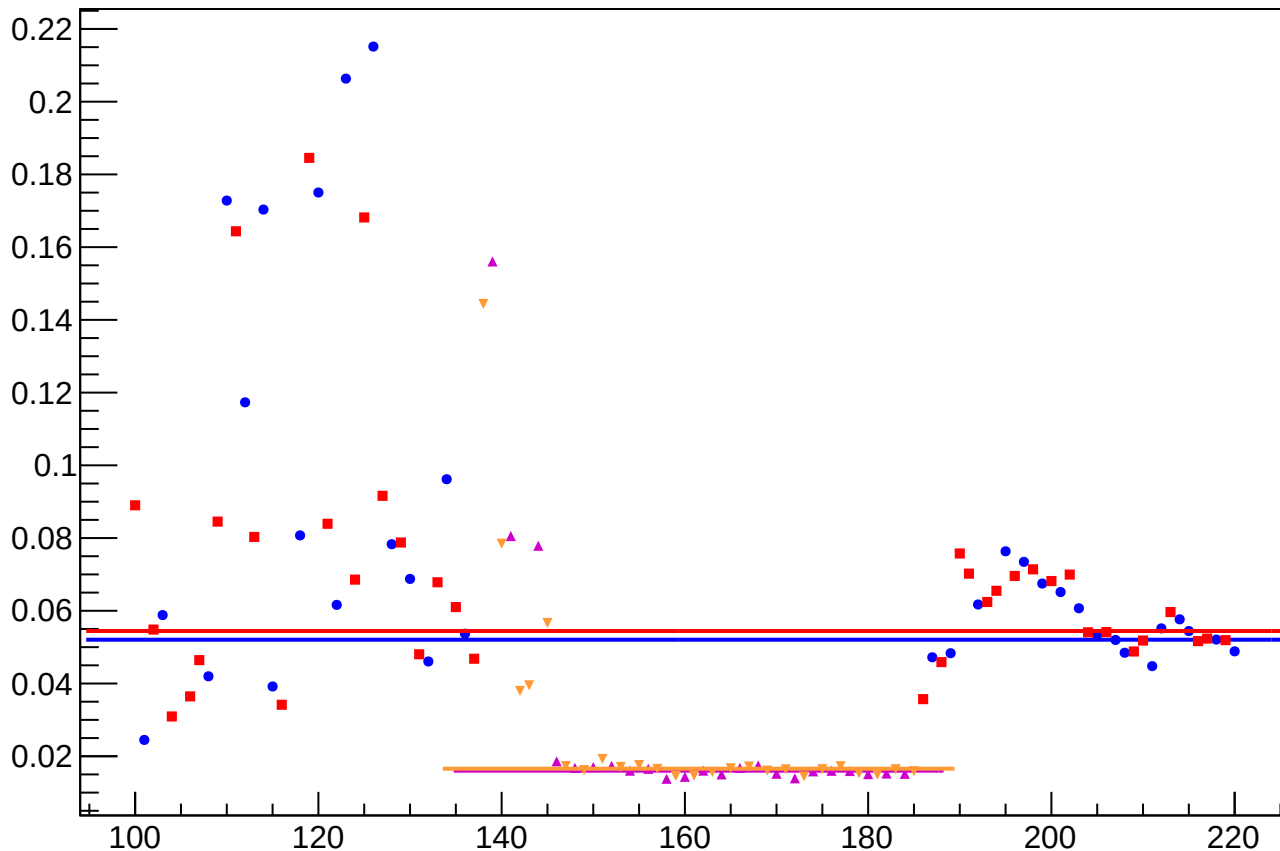
Right: -0.878 ± 0.000 χ^2/NDF : 16492381899.8/70

In: 1.973 ± 0.000 χ^2/NDF : 121411826289.2/56

Out: 2.056 ± 0.000 χ^2/NDF : 119170062992.7/61

All: 2.014 ± 0.000 χ^2/NDF : 240778912692.2

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3533006.6/33

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2885644.2/36

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

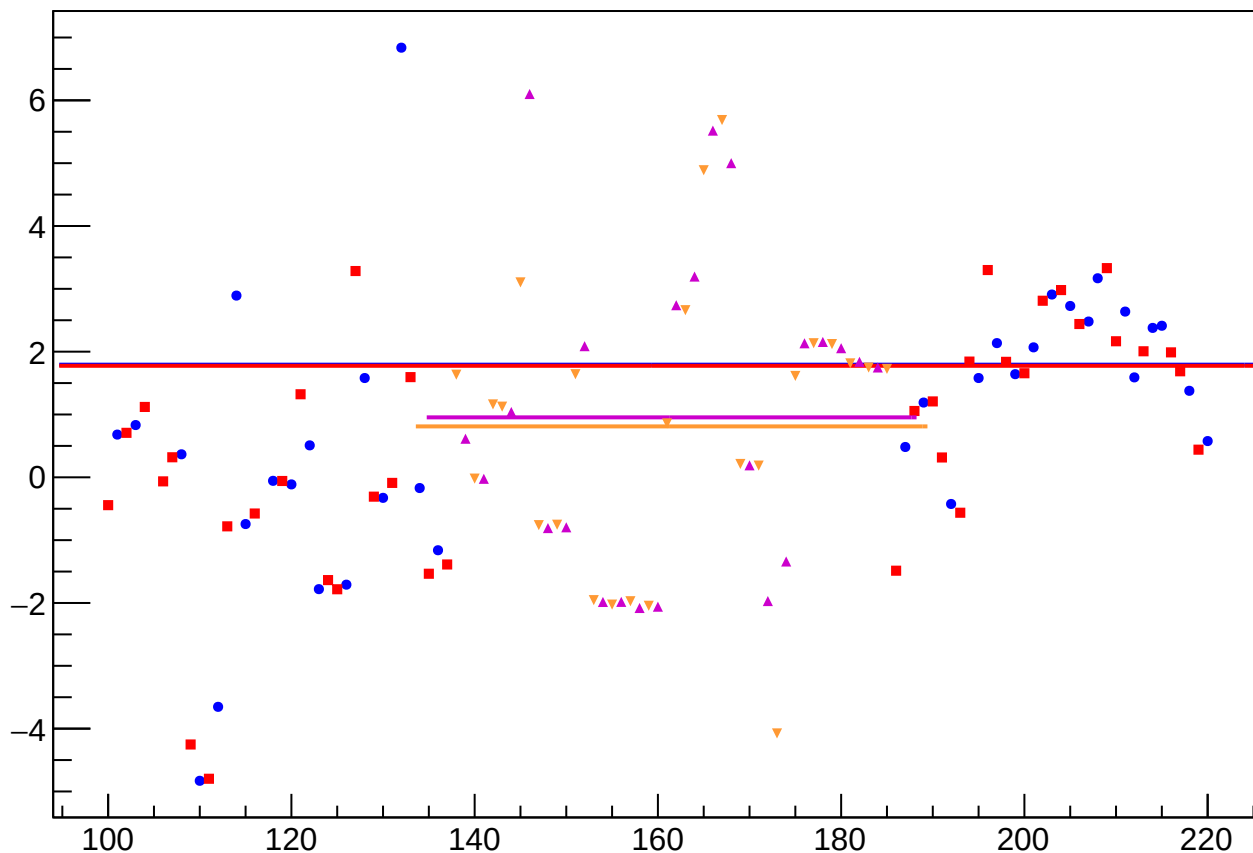
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6449413.6/70

In: 0.019 $\pm$ 0.000 χ^2 /NDF:18872562.2/56

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:19162360.2/61

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 38058905.2/118

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.793+/-0.000

χ^2/NDF : 43962096060.6/33

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right: 1.784+/-0.000

χ^2/NDF : 87844693958.3/70

Right Out: 1.775+/-0.000

χ^2/NDF : 43877243693.8/36

In: 1.203+/-0.000

χ^2/NDF : 636604749372.9/56

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

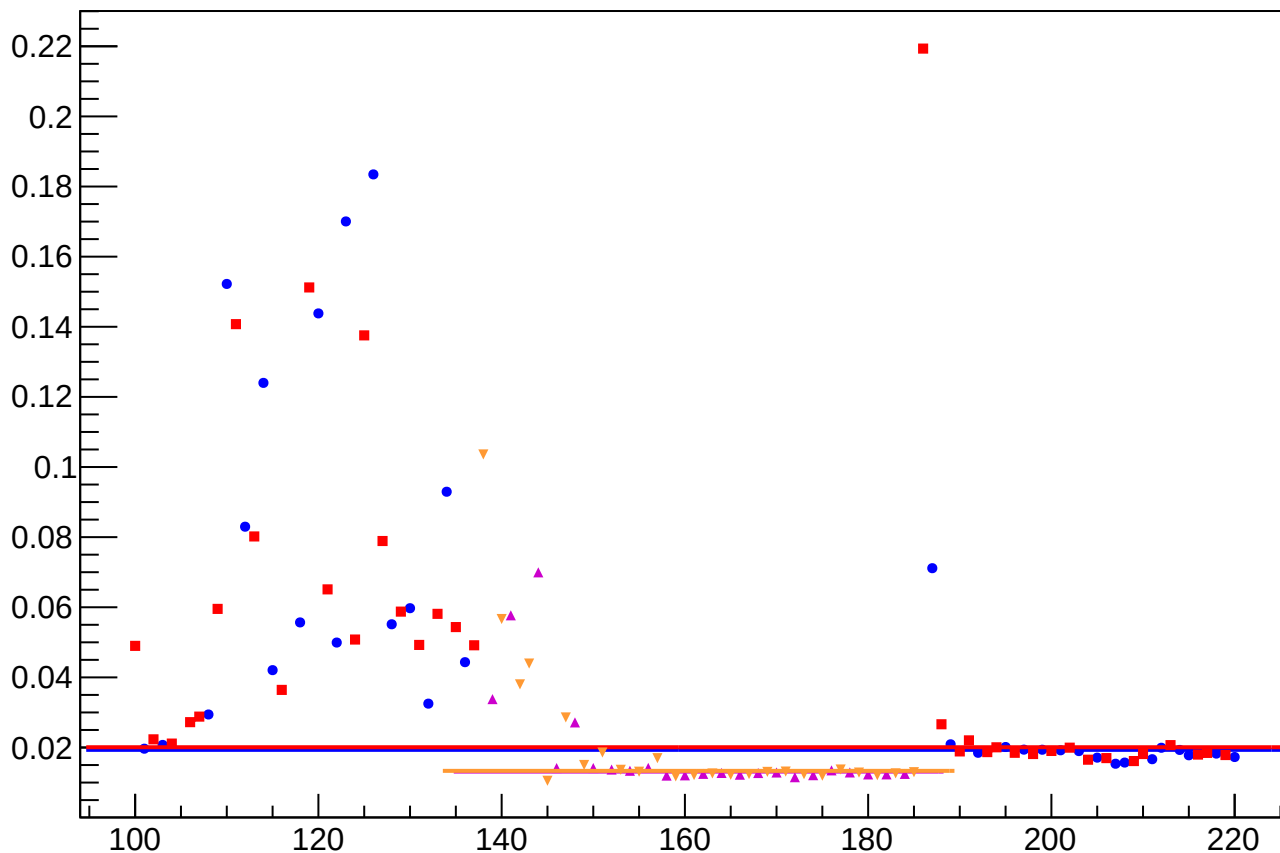
Out: 1.085+/-0.000

χ^2/NDF : 574021825152.0/61

All: 1.145+/-0.000

χ^2/NDF : 1211460706888.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4155091.5/33

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5227376.3/36

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

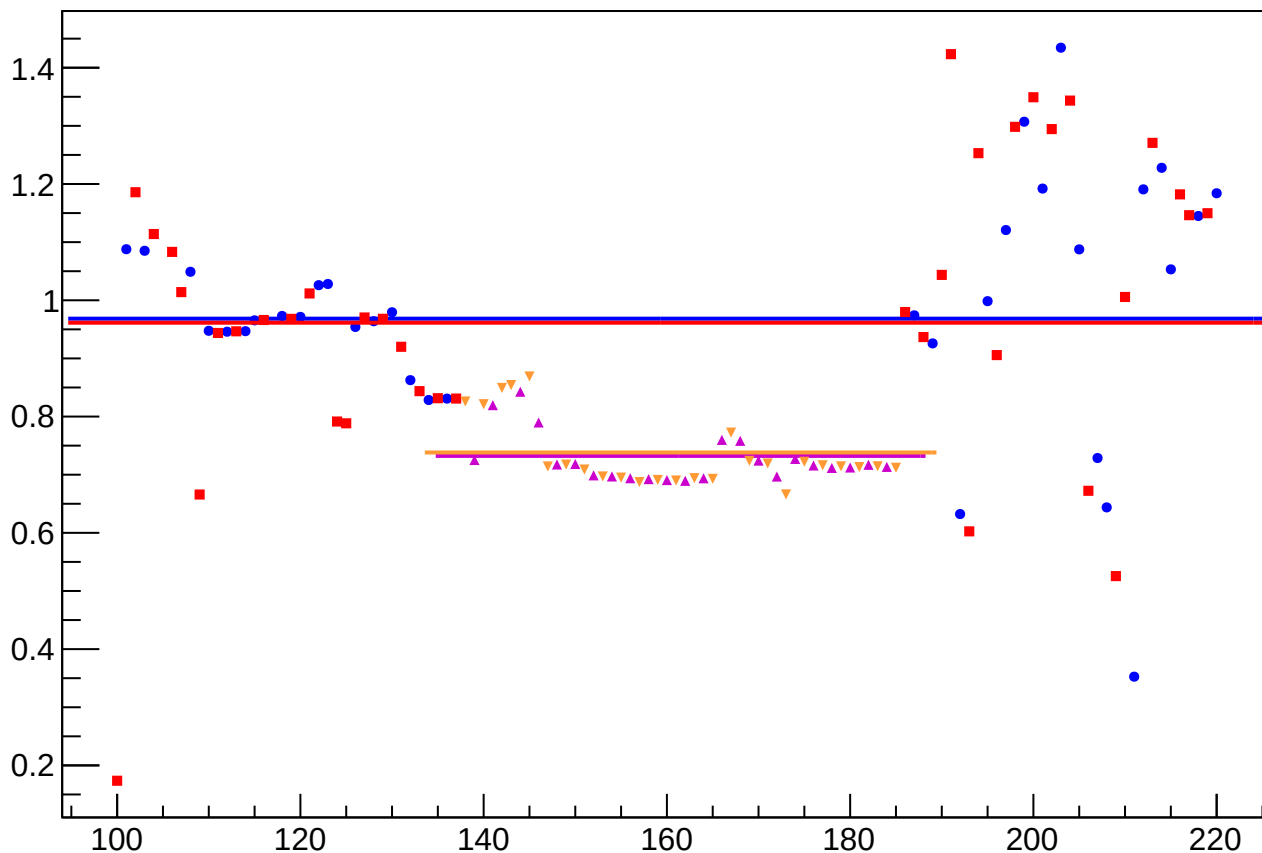
Right: 0.020+/-0.000 χ^2/NDF : 9401899.2/70

In: 0.015+/-0.000 χ^2/NDF :8072781.0/56

Out: 0.015+/-0.000 χ^2/NDF :10255538.8/61

All: 0.015+/-0.000 χ^2/NDF : 18338230.5/118

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.968 $\pm$ 0.000 χ^2 /NDF: 1083545177.9/33

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.961 $\pm$ 0.000 χ^2 /NDF: 1319906774.3/36

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

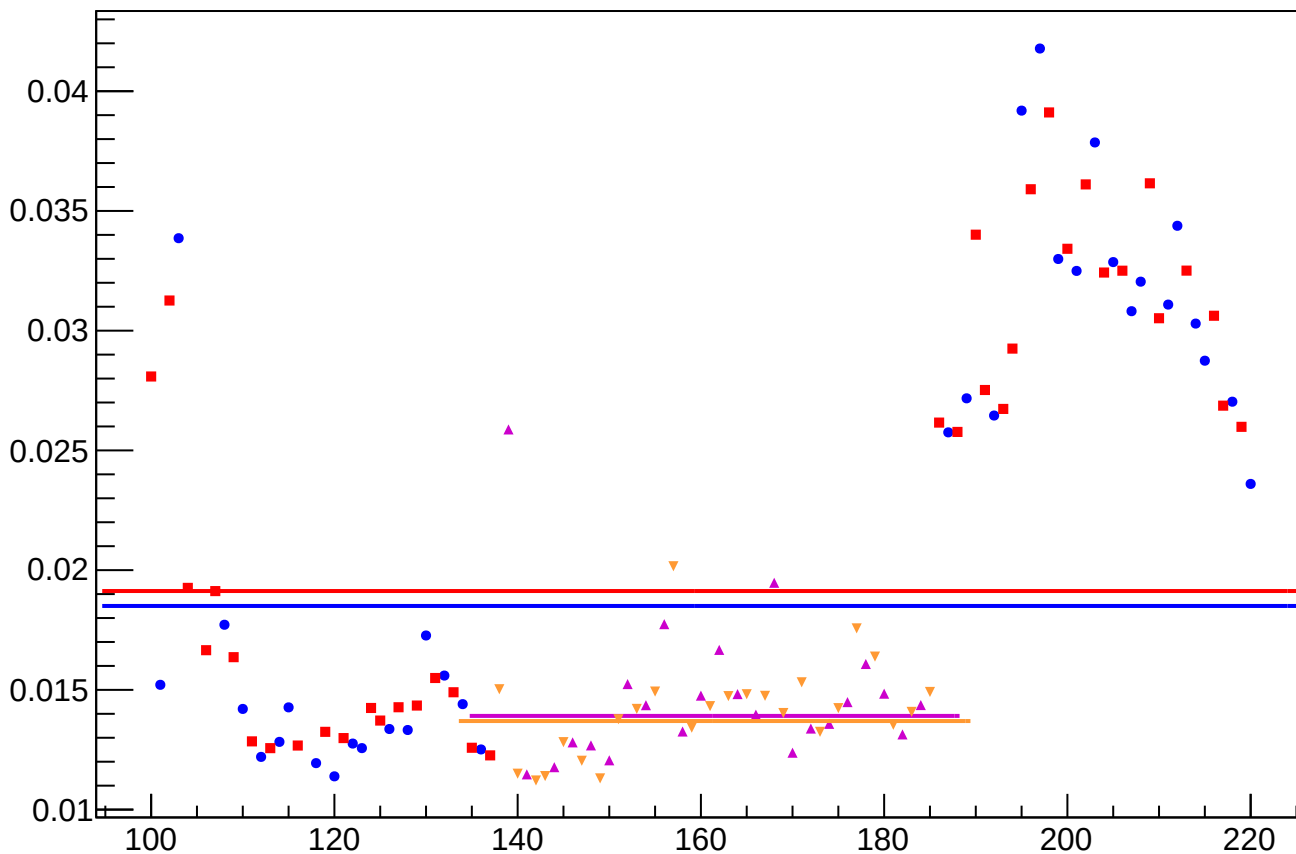
Right: 0.965 $\pm$ 0.000 χ^2 /NDF: 2404469132.1/70

In: 0.814 $\pm$ 0.000 χ^2 /NDF:2801996639.6/56

Out: 0.811 $\pm$ 0.000 χ^2 /NDF:3033865525.8/61

All: 0.812 $\pm$ 0.000 χ^2 /NDF: 5836413035.9/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5799834.3/33

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5243127.1/36

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

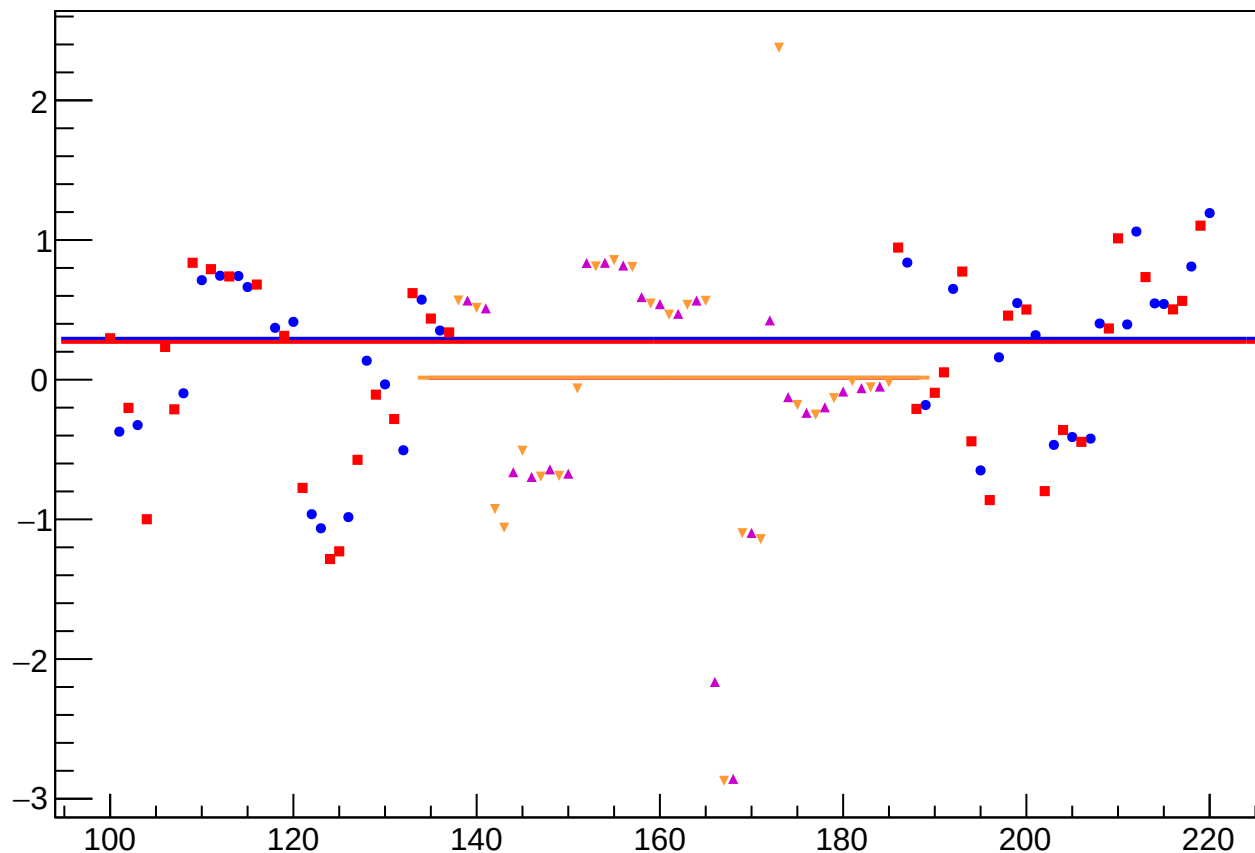
Right: 0.019+/-0.000 χ^2/NDF : 11059324.0/70

In: 0.015+/-0.000 χ^2/NDF : 7765400.9/56

Out: 0.015+/-0.000 χ^2/NDF : 7434793.6/61

All: 0.015+/-0.000 χ^2/NDF : 15200329.2/118

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.293+/-0.000

χ^2/NDF : 44193016749.6/33

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right: 0.282+/-0.000

χ^2/NDF : 94522110213.8/70

Right Out: 0.271+/-0.000

χ^2/NDF : 50298648609.4/36

In: 0.168+/-0.000

χ^2/NDF : 128242430117.8/56

Out: 0.152+/-0.000

χ^2/NDF : 150246439766.6/61

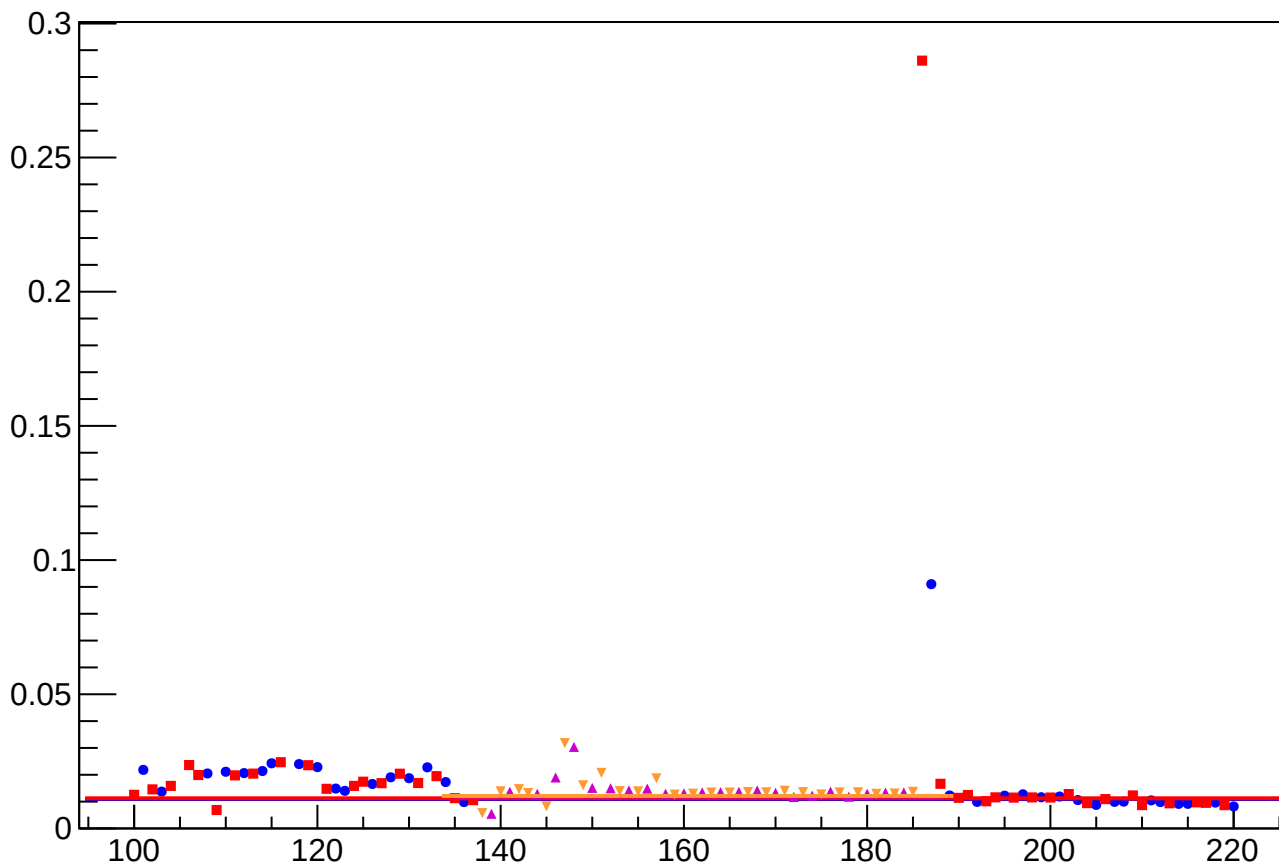
Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.160+/-0.000

χ^2/NDF : 278516602131.2

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2815649.7/33

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3227827.5/36

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

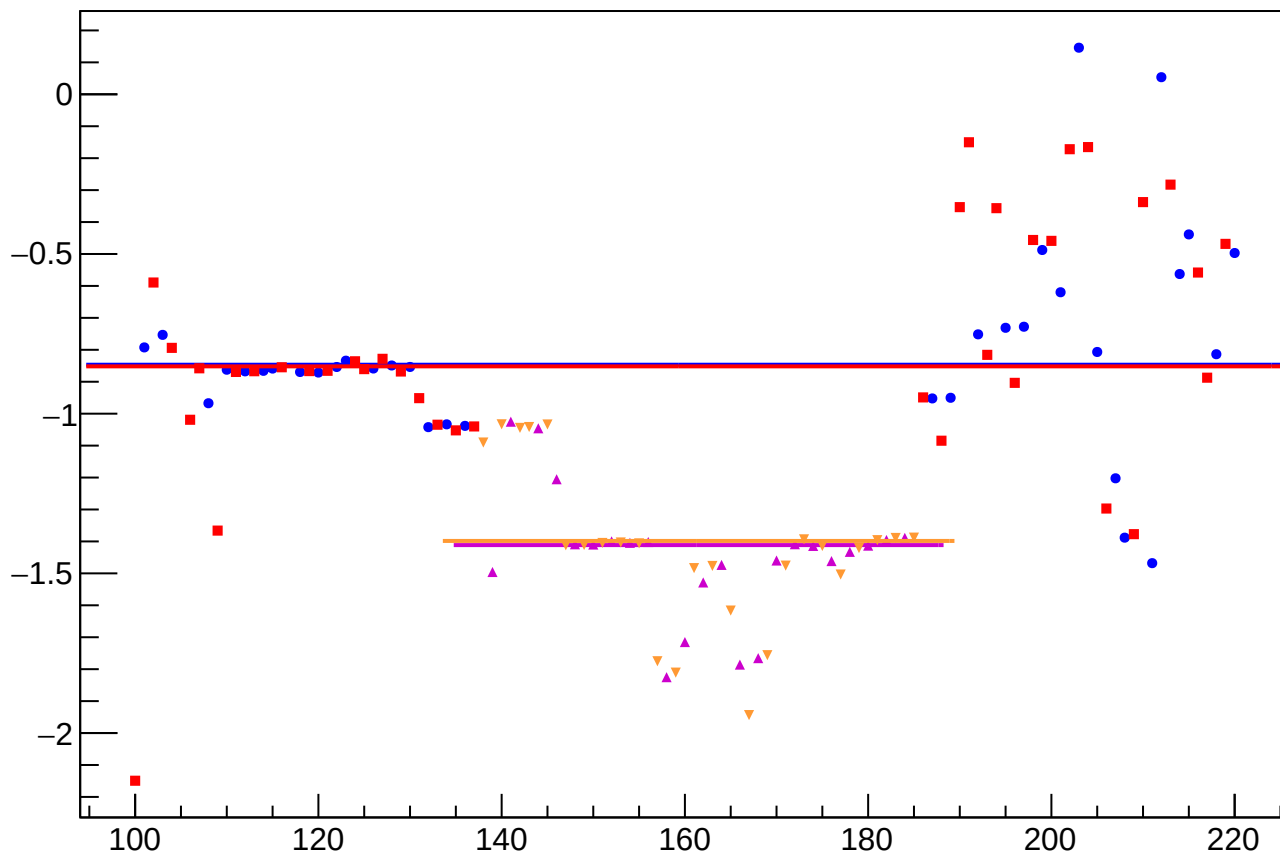
Right: 0.011+/-0.000 χ^2/NDF : 6052484.9/70

In: 0.011+/-0.000 χ^2/NDF :6028640.6/56

Out: 0.012+/-0.000 χ^2/NDF :6425984.4/61

All: 0.012+/-0.000 χ^2/NDF : 12468736.8/118

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.847 ± 0.000 $\chi^2/\text{NDF}: 397690783.6/33$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 517950056.4/36$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

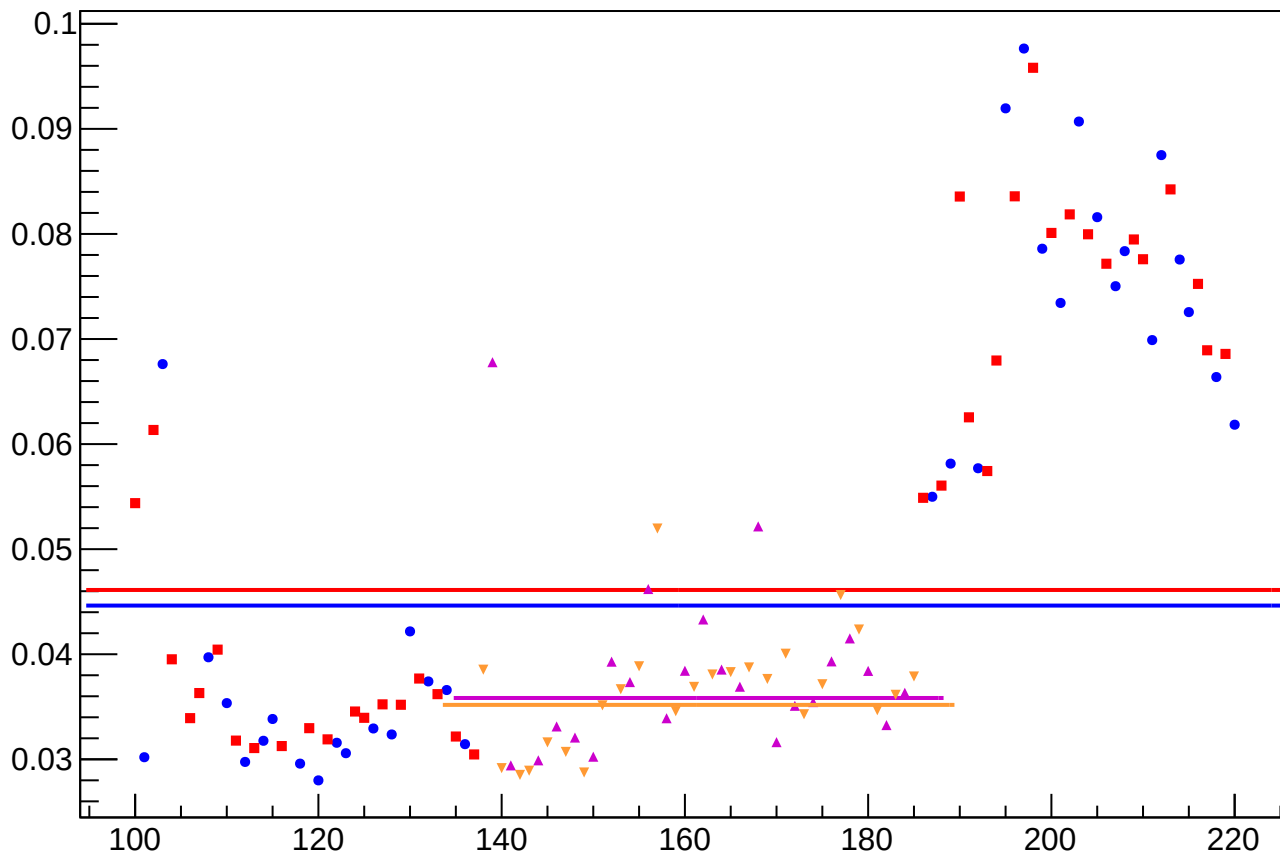
Right: -0.849 ± 0.000 $\chi^2/\text{NDF}: 915736903.5/70$

In: -1.196 ± 0.000 $\chi^2/\text{NDF}: 2371254766.2/56$

Out: -1.202 ± 0.000 $\chi^2/\text{NDF}: 2647453543.1/61$

All: -1.199 ± 0.000 $\chi^2/\text{NDF}: 5019115030.8/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2/NDF : 5672752.0/33

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF :597886.0/24

Right Out: 0.046 $\pm$ 0.000 χ^2/NDF : 4917536.1/36

Left In: 0.036 $\pm$ 0.000 χ^2/NDF :890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1494255.9/47

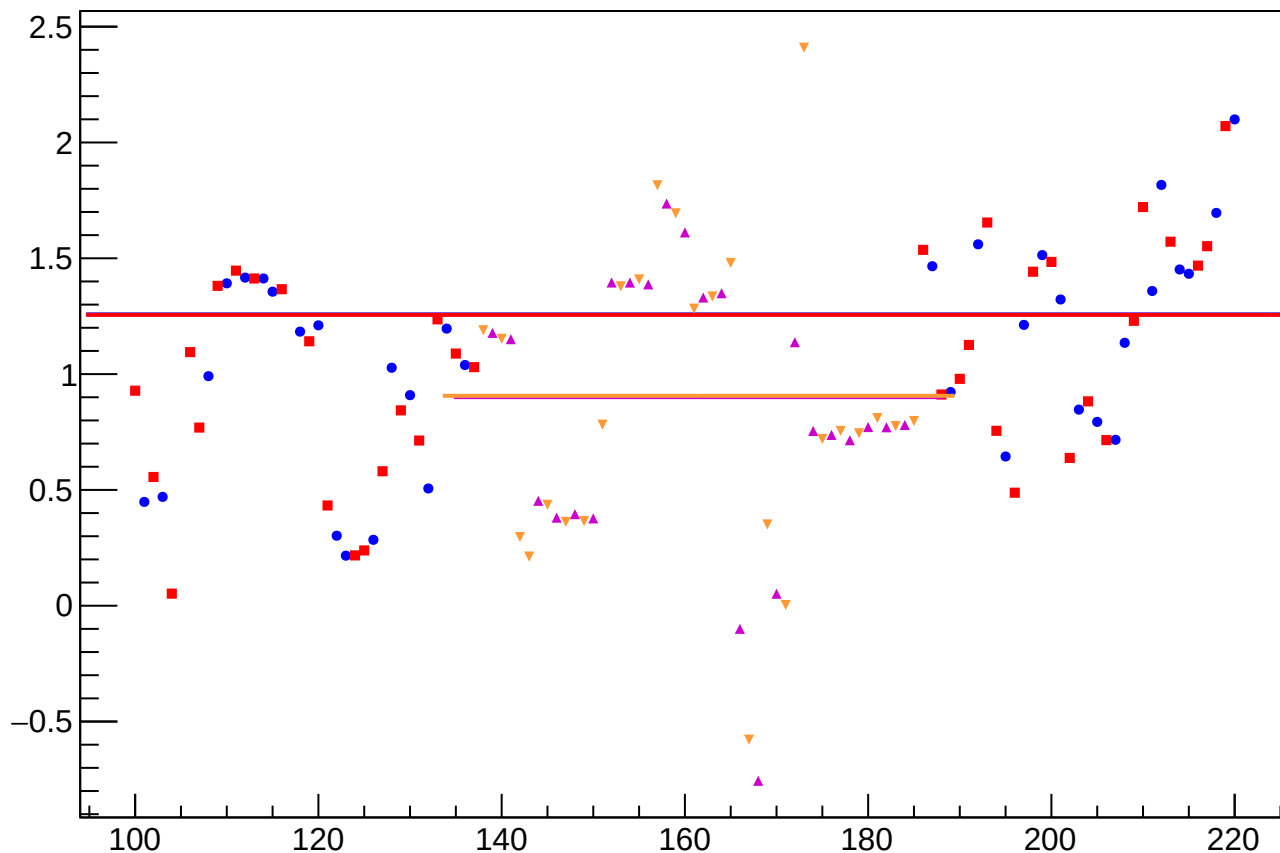
Right: 0.045 $\pm$ 0.000 χ^2/NDF : 10606502.9/70

In: 0.039 $\pm$ 0.000 χ^2/NDF :7272313.5/56

Out: 0.039 $\pm$ 0.000 χ^2/NDF :6632283.2/61

All: 0.039 $\pm$ 0.000 χ^2/NDF : 13904750.4/118

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.258+/-0.000

χ^2/NDF : 74666933363.4/33

Left: 0.904+/-0.000

χ^2/NDF : 151044220035.9/47

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

Right: 1.257+/-0.000

χ^2/NDF : 146295909176.6/70

Right Out: 1.256+/-0.000

χ^2/NDF : 71628392872.4/36

In: 1.128+/-0.000

χ^2/NDF : 158472753764.1/56

Out: 1.114+/-0.000

χ^2/NDF : 171625017946.1/61

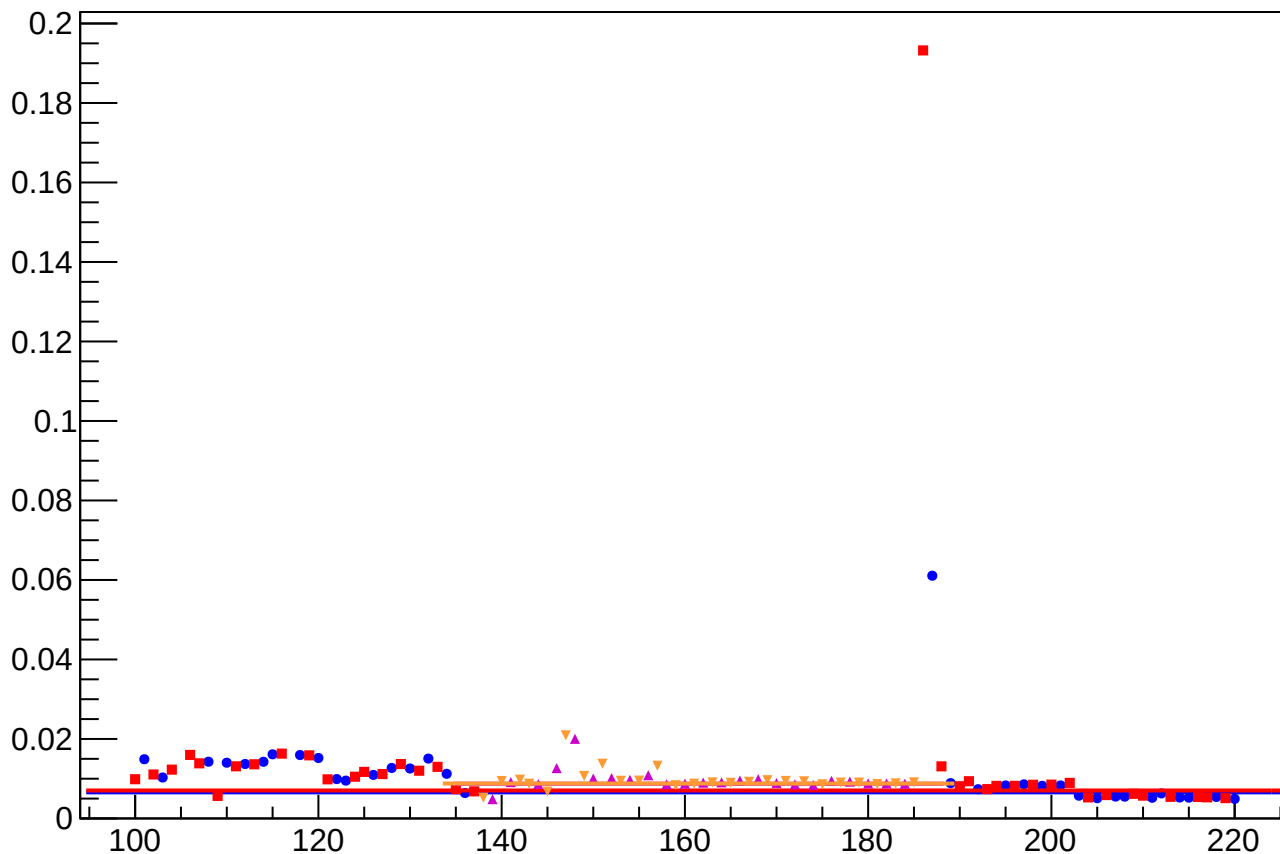
Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.121+/-0.000

χ^2/NDF : 330151476877.3

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3983599.3/33

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4326799.0/36

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

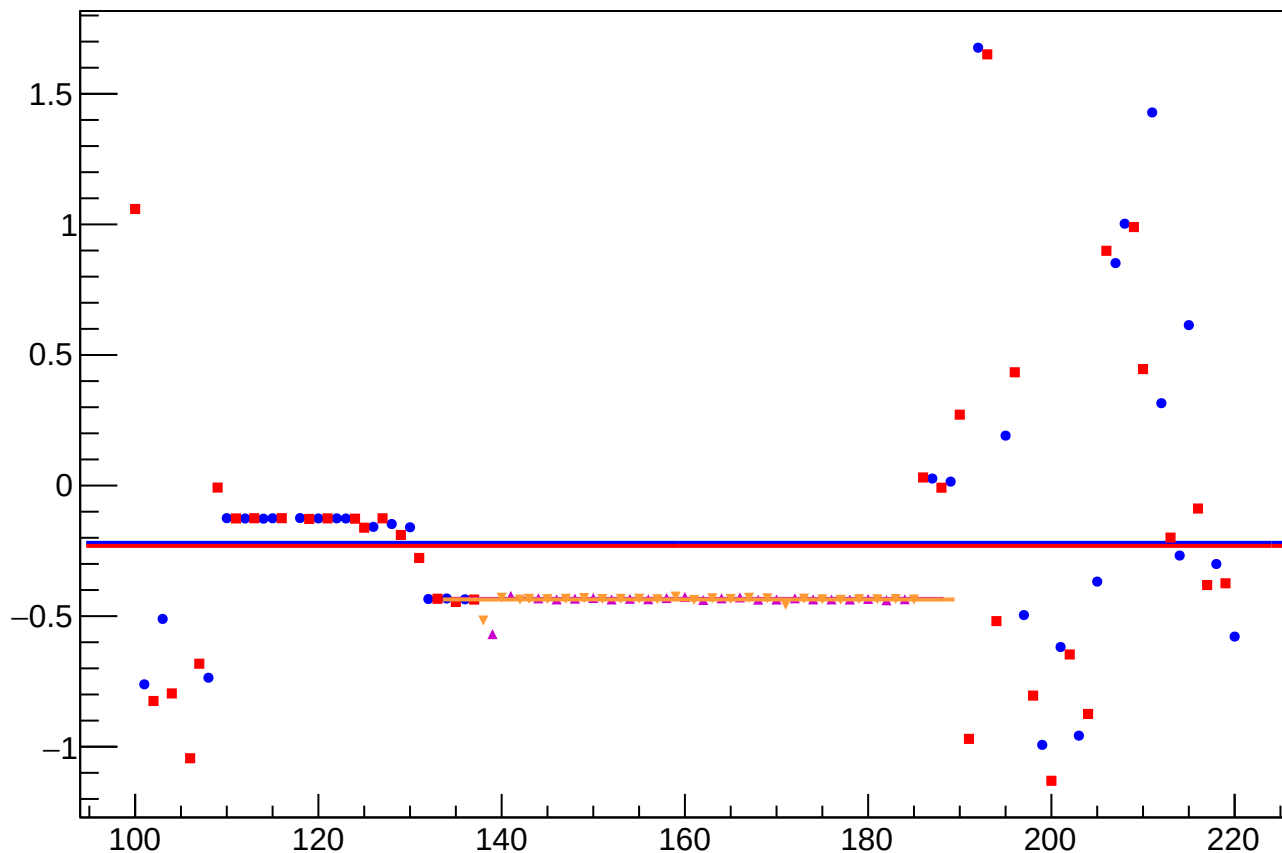
Right: 0.007+/-0.000 χ^2/NDF : 8387667.9/70

In: 0.007+/-0.000 χ^2/NDF :6902847.0/56

Out: 0.008+/-0.000 χ^2/NDF :6817749.8/61

All: 0.008+/-0.000 χ^2/NDF : 13807124.6/118

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.219+/-0.000 χ^2/NDF : 5047056658.3/33

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.231+/-0.000 χ^2/NDF : 3439646750.0/36

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

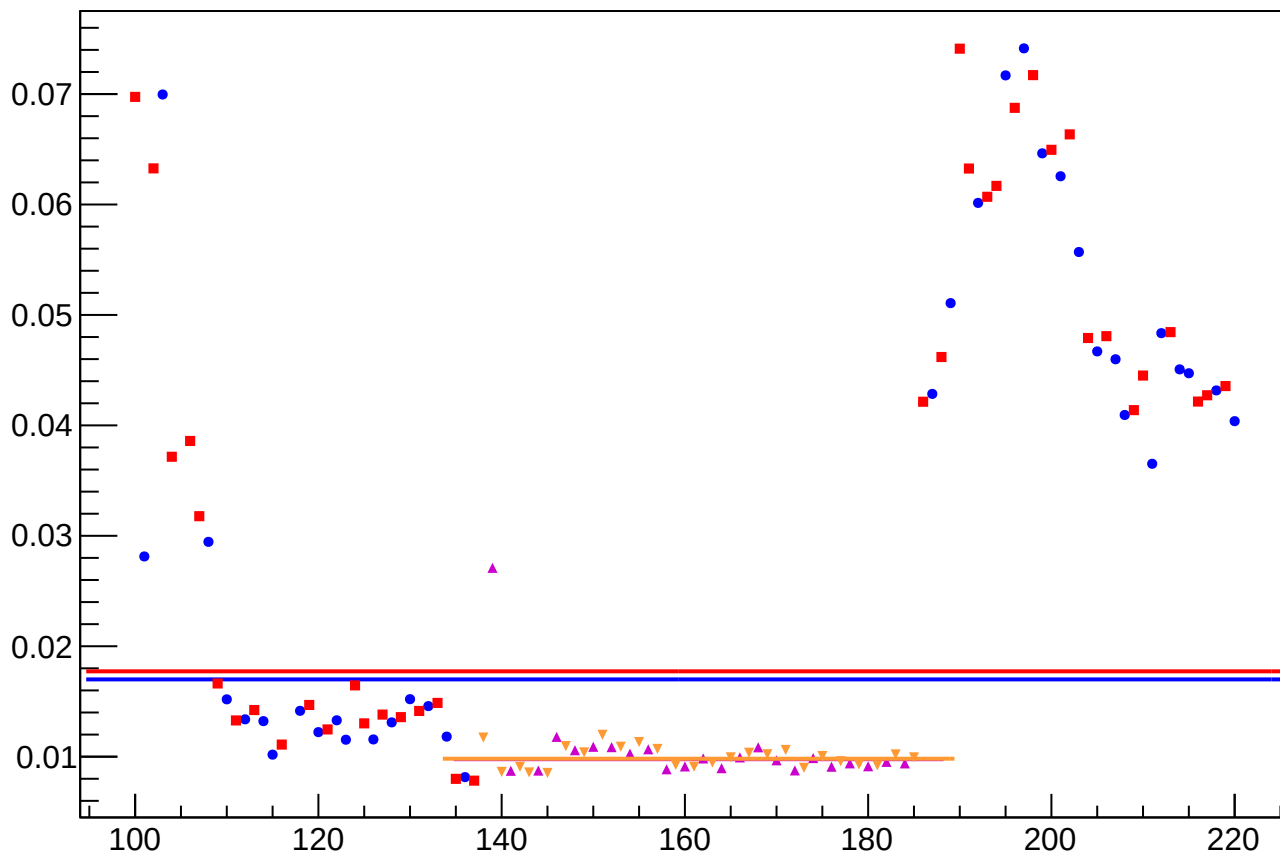
Right: -0.225+/-0.000 χ^2/NDF : 8489057822.5/70

In: -0.393+/-0.000 χ^2/NDF : 6423411178.9/56

Out: -0.400+/-0.000 χ^2/NDF : 4664737091.4/61

All: -0.397+/-0.000 χ^2/NDF : 11093670321.7/111

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 13640508.3/33

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:271172.3/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 13840087.9/36

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1058038.1/47

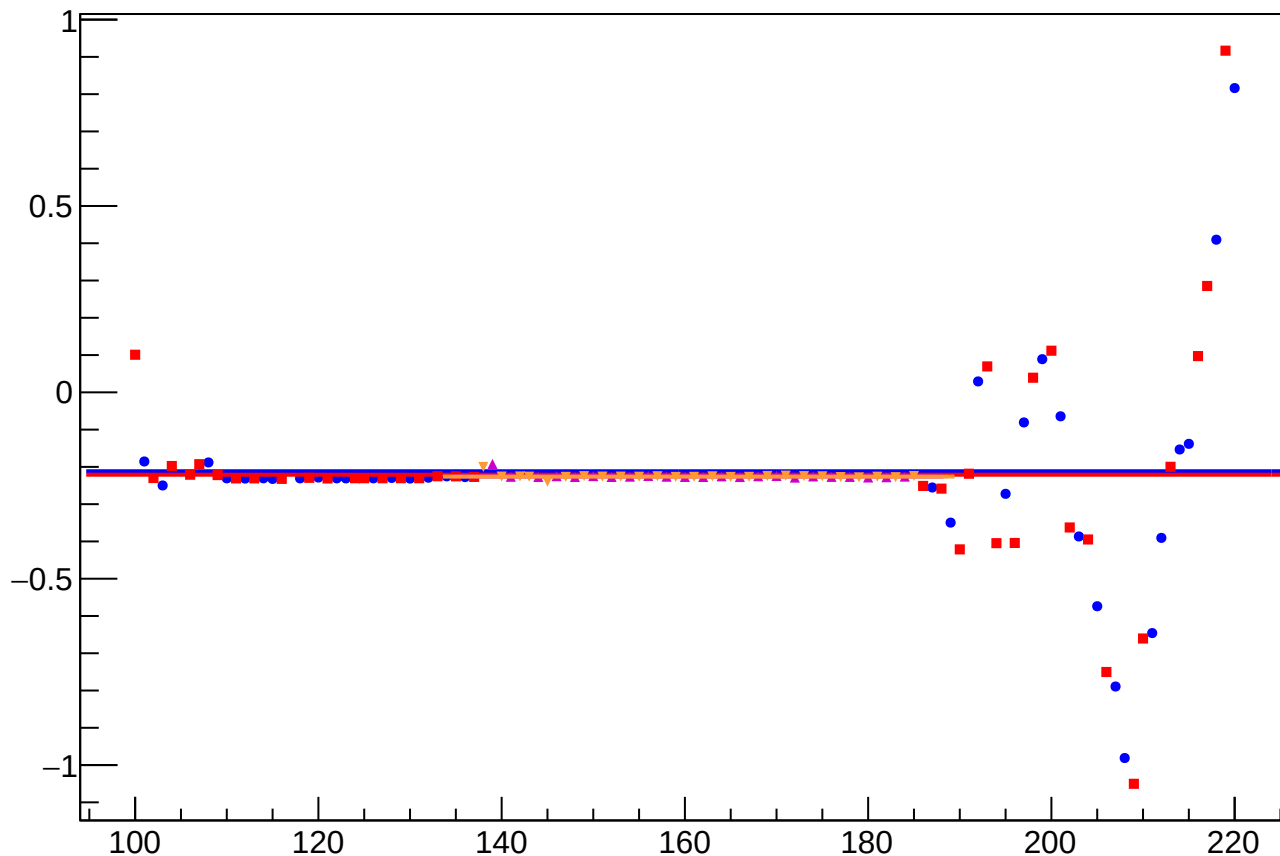
Right: 0.017 $\pm$ 0.000 χ^2 /NDF: 27499431.7/70

In: 0.011 $\pm$ 0.000 χ^2 /NDF:17501450.0/56

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:17665913.8/61

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 35167628.4/118

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.212+/-0.000

χ^2/NDF : 48006318568.2/33

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right Out: -0.221+/-0.000

χ^2/NDF : 46860873277.3/36

Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Right: -0.216+/-0.000

χ^2/NDF : 94890521288.0/70

In: -0.219+/-0.000

χ^2/NDF : 48076815135.8/56

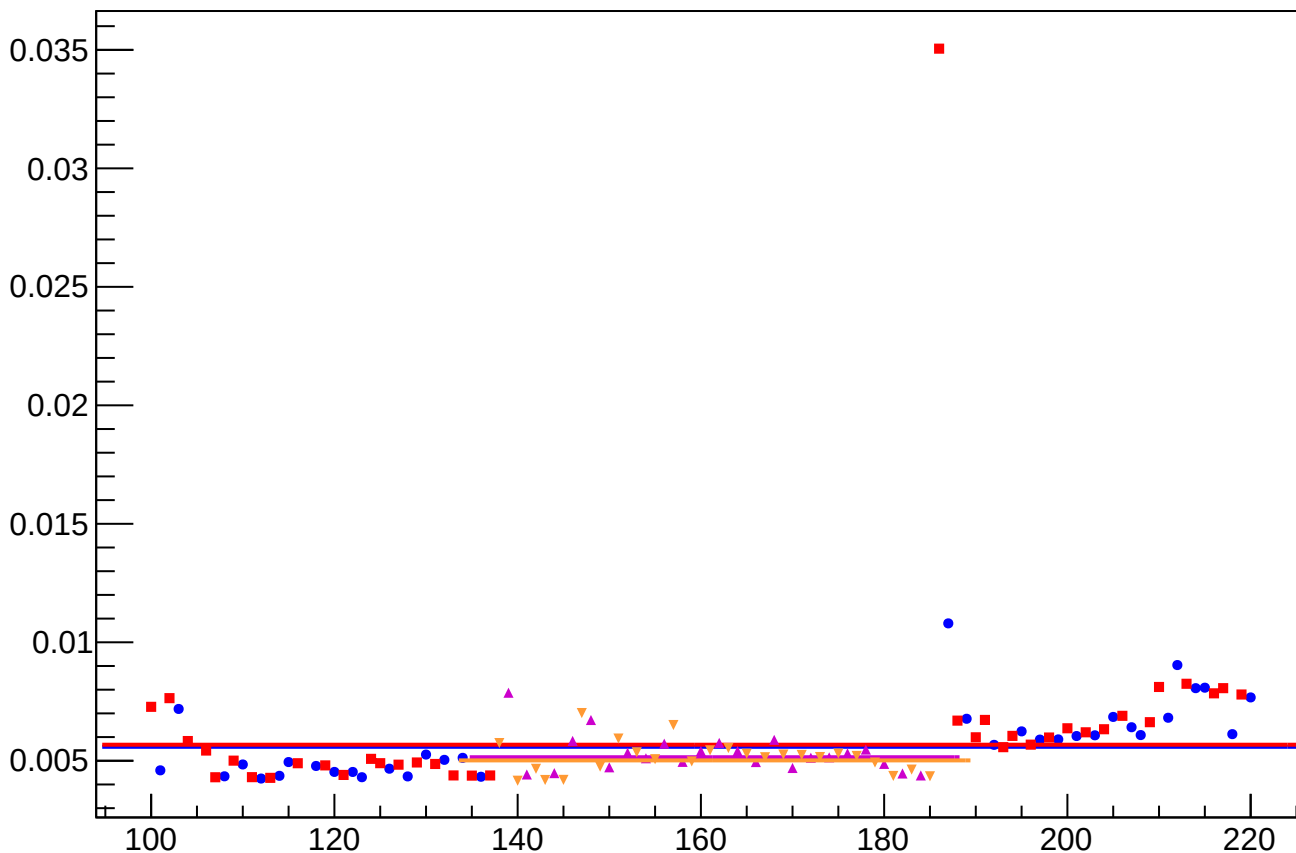
Out: -0.224+/-0.000

χ^2/NDF : 46889678260.5/61

All: -0.222+/-0.000

χ^2/NDF : 94979269516.0/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1489006.1/33

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1980348.1/36

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

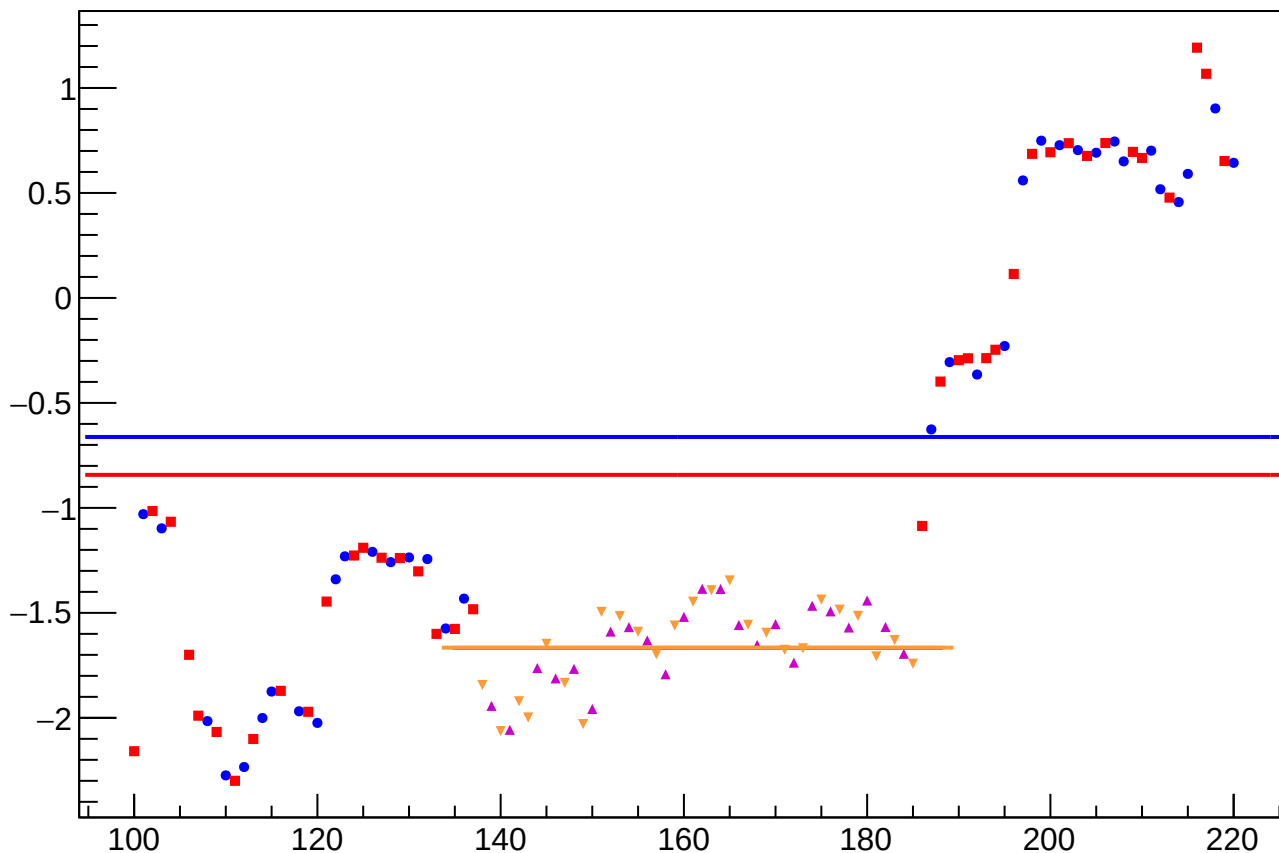
Right: 0.006+/-0.000 χ^2/NDF : 3473506.8/70

In: 0.005+/-0.000 χ^2/NDF : 2105281.0/56

Out: 0.005+/-0.000 χ^2/NDF : 2777433.4/61

All: 0.005+/-0.000 χ^2/NDF : 4885476.3/118

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.662+/-0.000

χ^2/NDF : 265437333915.3/33

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.757+/-0.000

χ^2/NDF : 571796716725.2/70

Right Out: -0.843+/-0.000

χ^2/NDF : 302214633765.0/36

In: -1.297+/-0.000

χ^2/NDF : 433872117800.9/56

Out: -1.354+/-0.000

χ^2/NDF : 433762293181.7/61

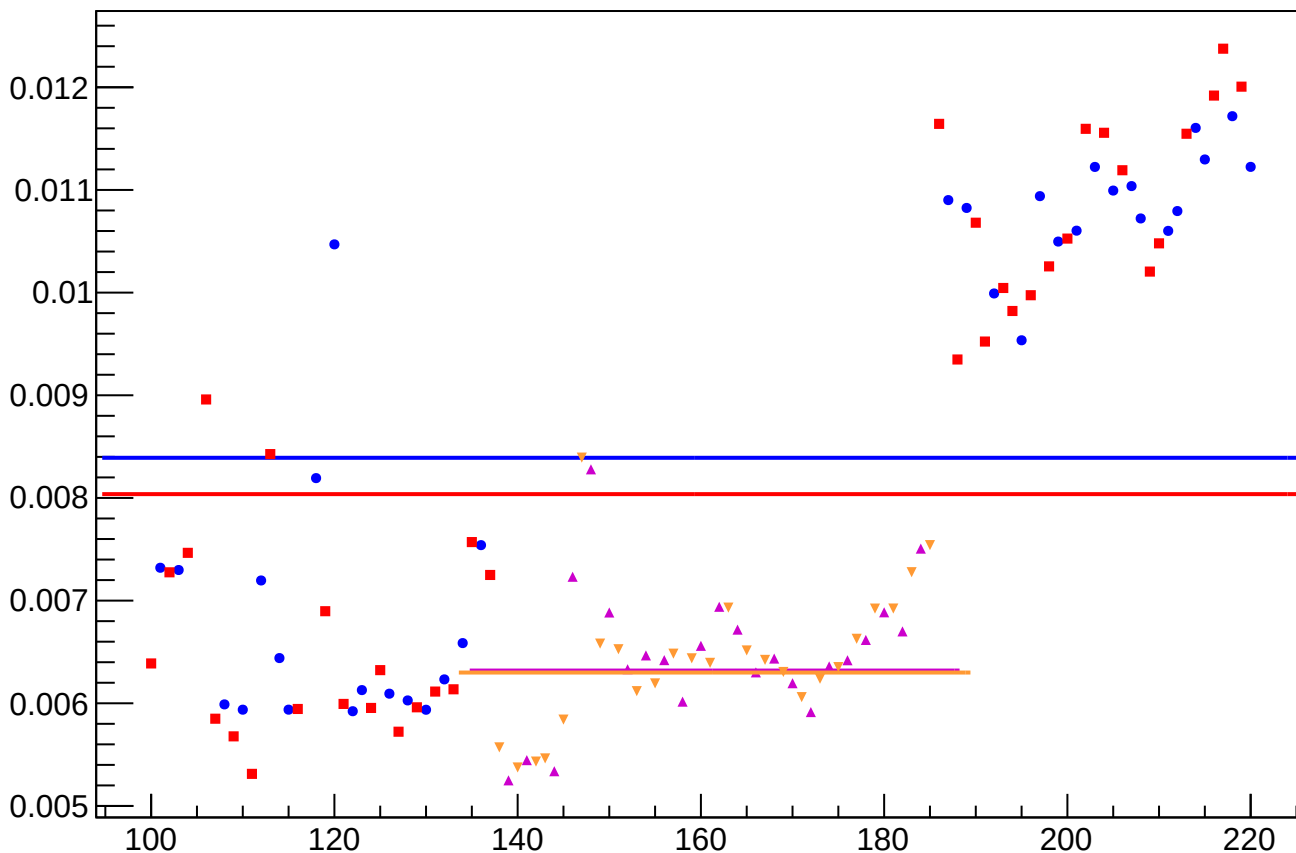
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.327+/-0.000

χ^2/NDF : 868757399884.2/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2316361.4/33

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2775244.2/36

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

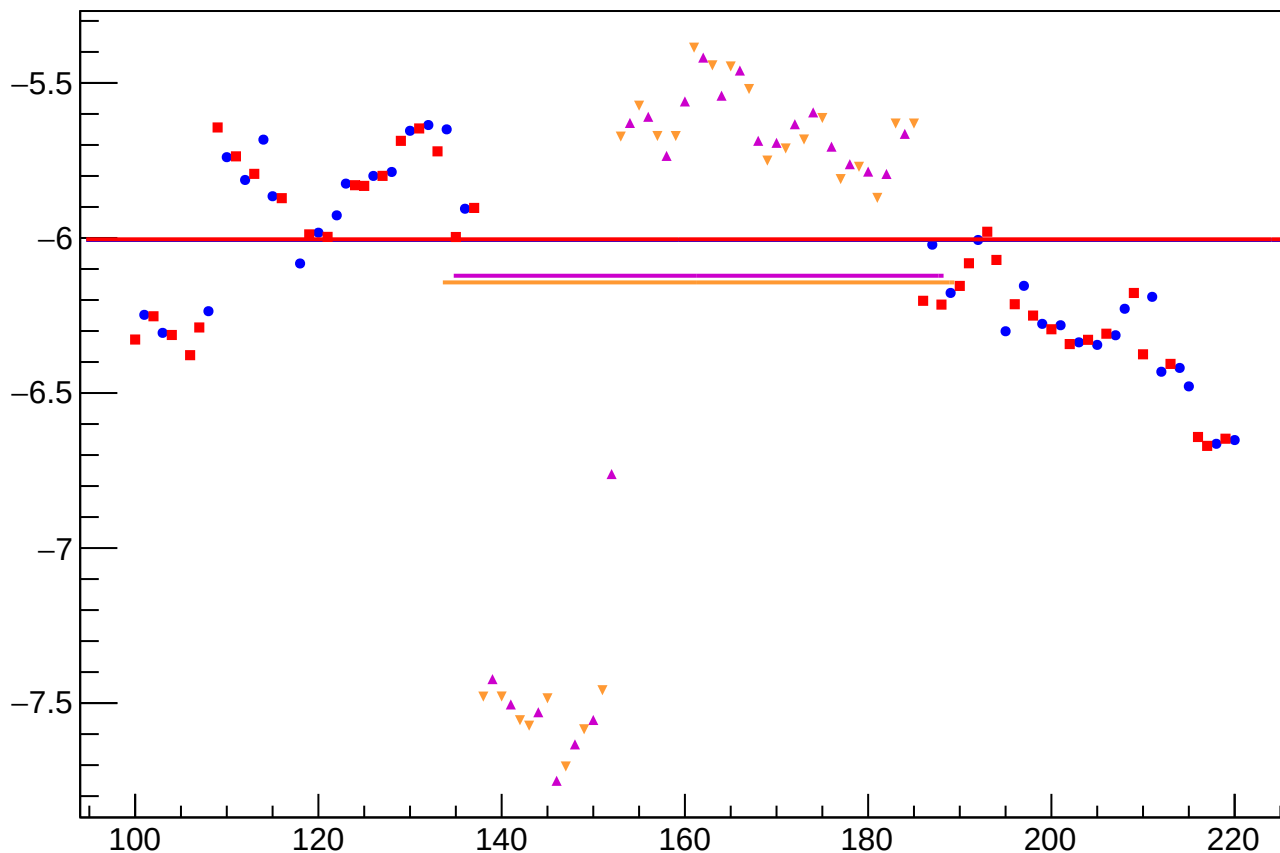
Right: 0.008+/-0.000 χ^2/NDF : 5123470.3/70

In: 0.007+/-0.000 χ^2/NDF : 3959616.5/56

Out: 0.007+/-0.000 χ^2/NDF : 4097450.0/61

All: 0.007+/-0.000 χ^2/NDF : 8067722.0/118

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.006+/-0.000 χ^2/NDF : 20864930290.0/33

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -6.004+/-0.000 χ^2/NDF : 22171013094.8/36

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

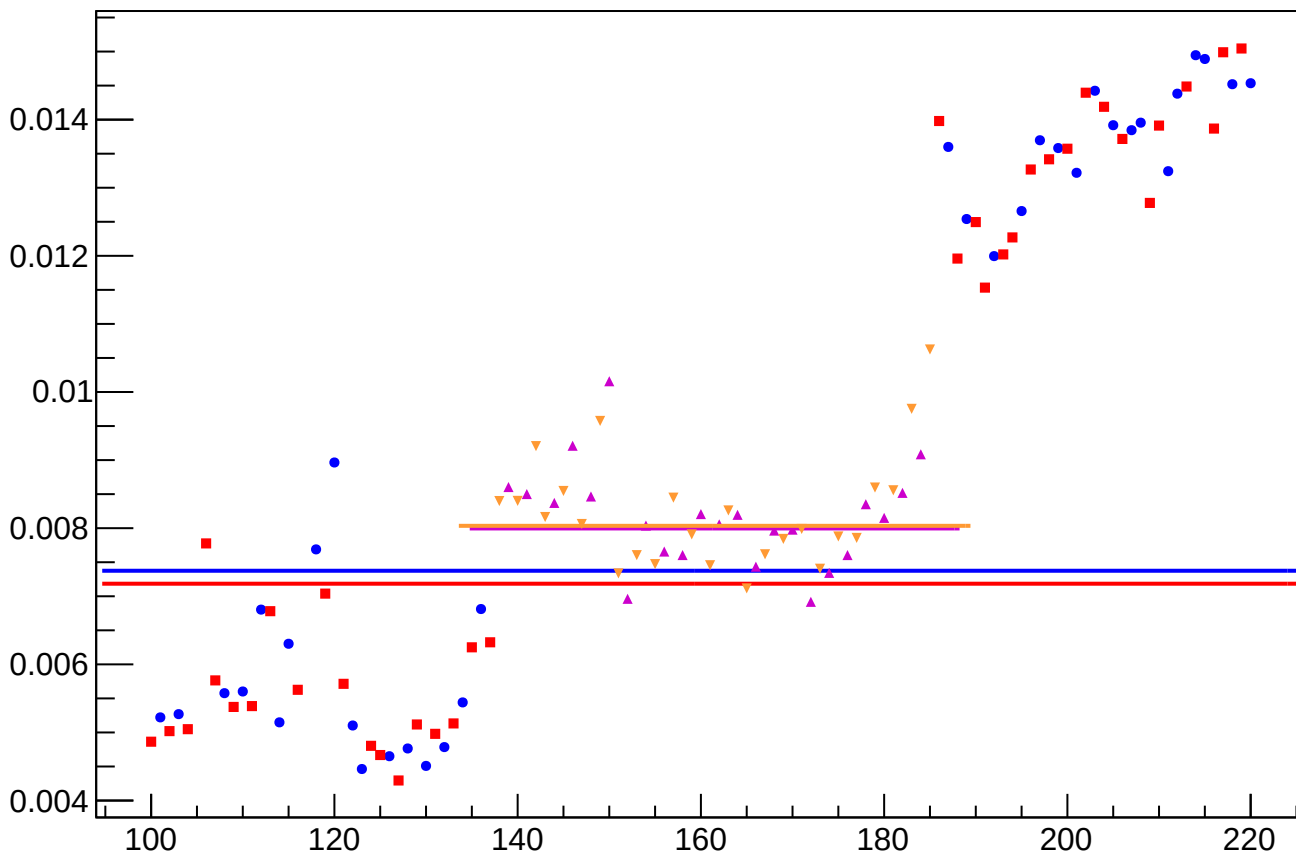
Right: -6.005+/-0.000 χ^2/NDF : 43036580737.3/70

In: -6.062+/-0.000 χ^2/NDF : 182480576669.1/56

Out: -6.070+/-0.000 χ^2/NDF : 210526296354.6/61

All: -6.066+/-0.000 χ^2/NDF : 393021422986.0/100

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7070512.9/33

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6980077.6/36

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

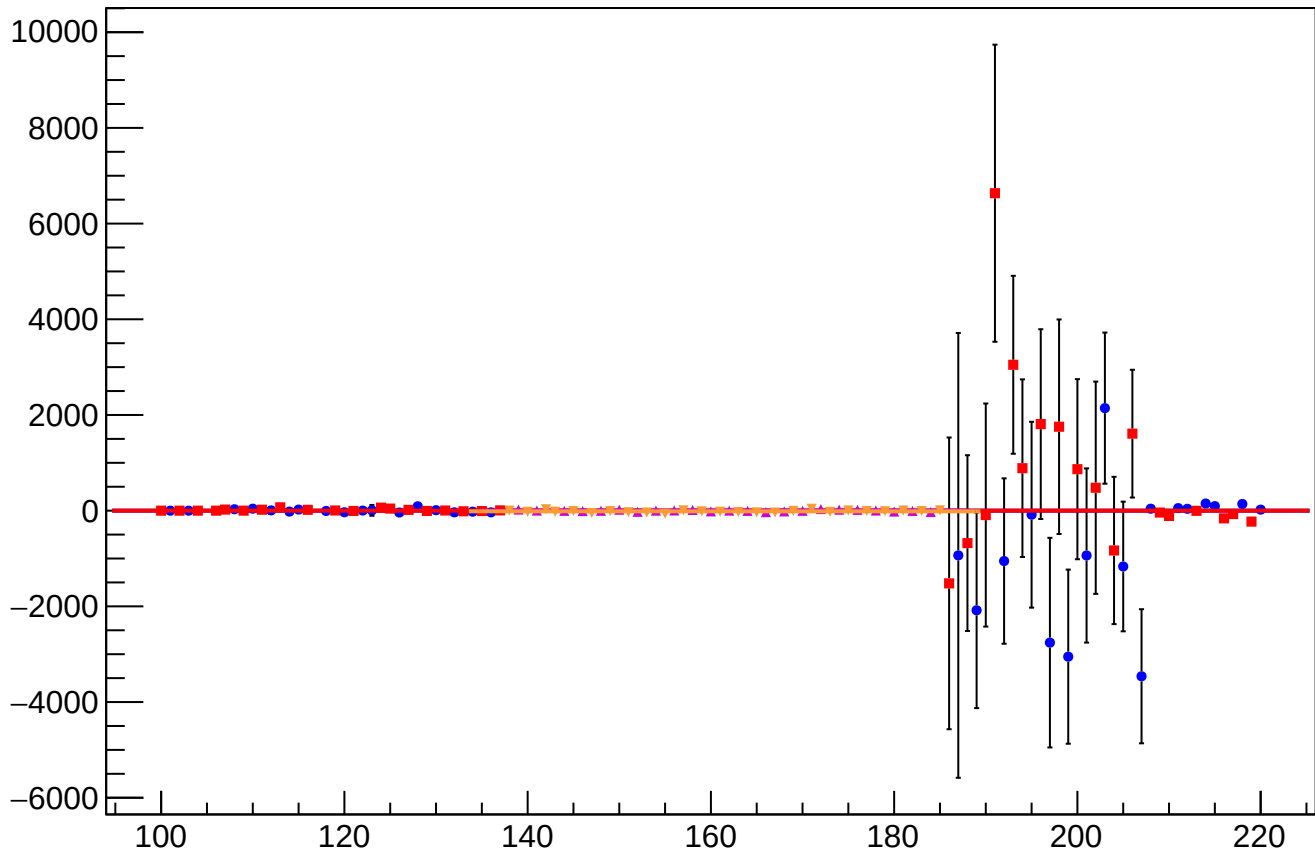
Right: 0.007+/-0.000 χ^2/NDF : 14060611.3/70

In: 0.008+/-0.000 χ^2/NDF :7389743.5/56

Out: 0.008+/-0.000 χ^2/NDF :7383194.2/61

All: 0.008+/-0.000 χ^2/NDF : 14777330.4/118

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 57.2/33$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 63.4/36$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

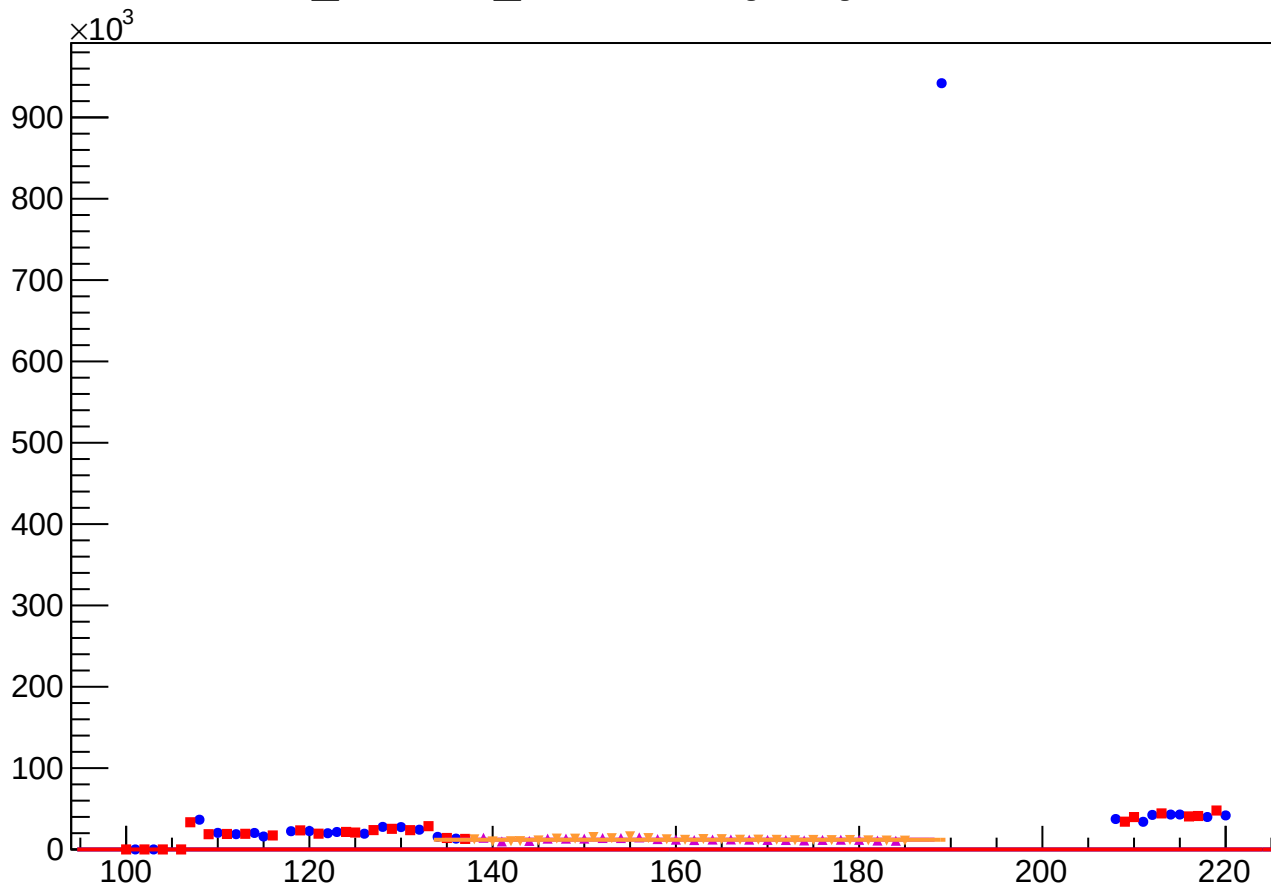
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 121.1/70$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 85.9/56$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 145.1/61$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 231.5/118$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.679+/-0.012 χ^2 /NDF: 21308649.7/24

Left Out: 11909.835+/-1.977 χ^2 /NDF:475310.2/24

Right Out: 18.339+/-0.011 χ^2 /NDF: 19897528.6/24

Left In: 12064.321+/-2.054 χ^2 /NDF:372586.0/22

Left: 11984.125+/-1.425 χ^2 /NDF: 850831.6/47

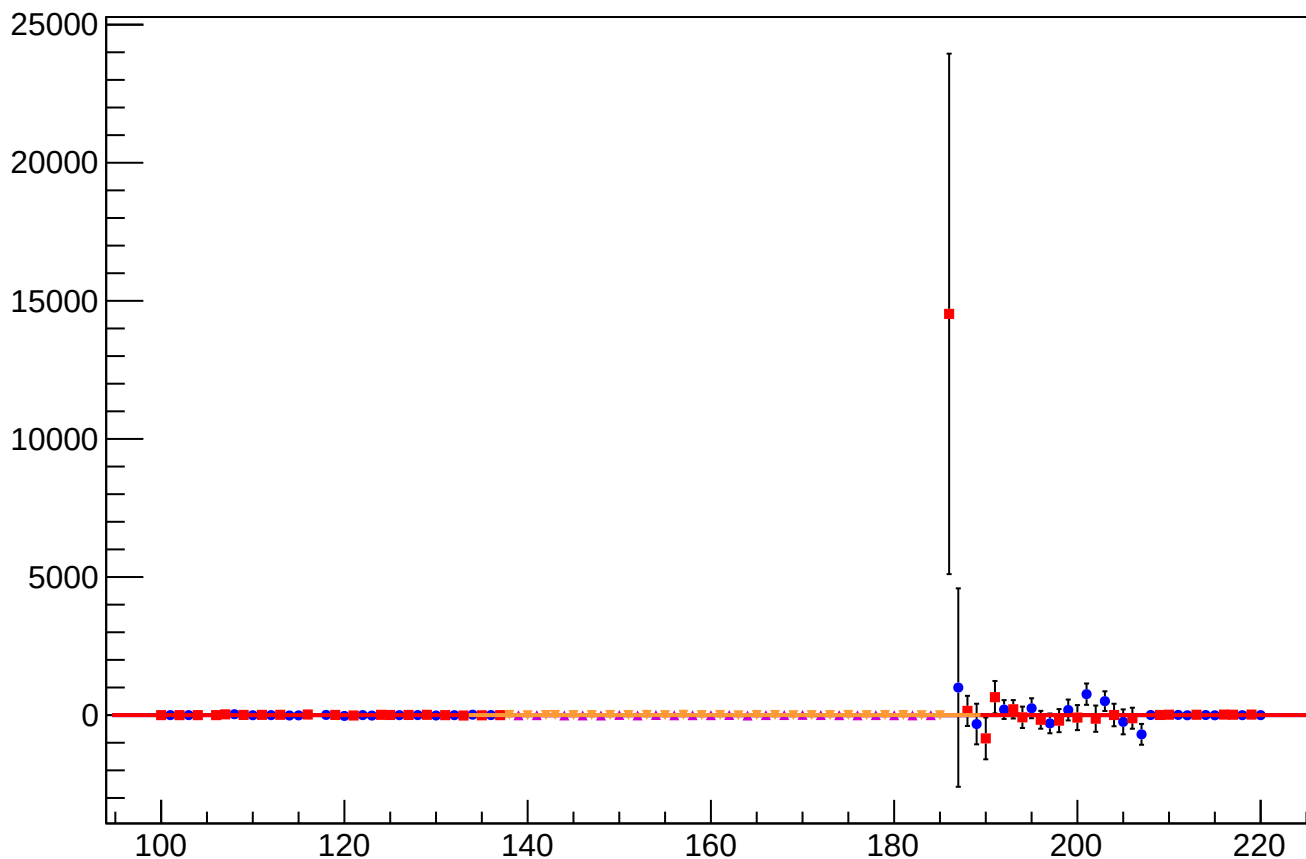
Right: 18.496+/-0.008 χ^2 /NDF: 41206592.8/49

In: 19.108+/-0.012 χ^2 /NDF:56058920.4/47

Out: 18.732+/-0.011 χ^2 /NDF:56539799.9/49

All: 18.906+/-0.008 χ^2 /NDF: 112599226.9/97

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 29.5/33

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 59.3/36

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF:35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

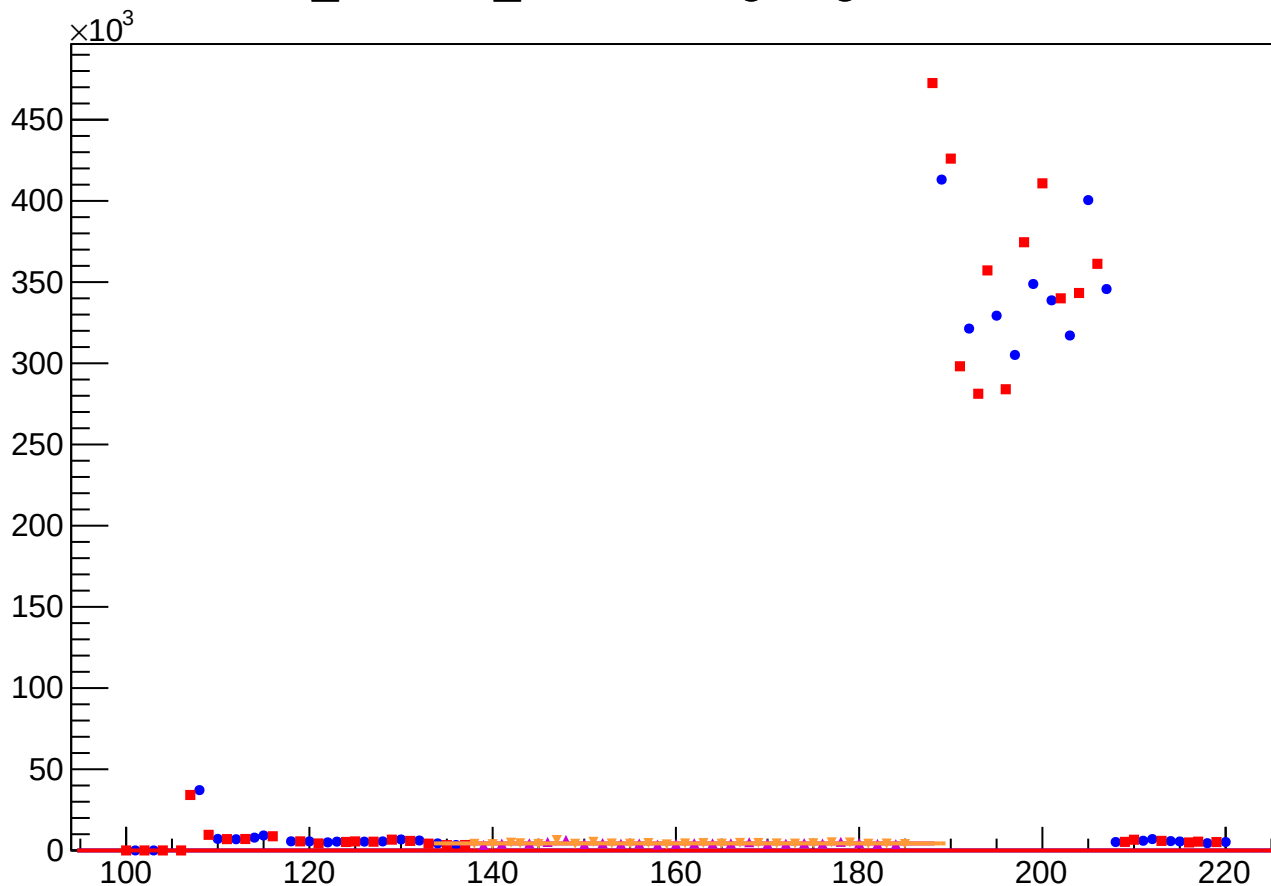
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 90.2/70

In: 0.001 $\pm$ 0.009 χ^2 /NDF:65.8/56

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:80.0/61

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 147.2/118

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.018+/-0.007 χ^2/NDF : 34699431.7/32

Left Out: 4350.545+/-0.722 χ^2/NDF :384749.0/24

Right Out: 9.915+/-0.006 χ^2/NDF : 34667462.6/35

Left In: 4314.568+/-0.738 χ^2/NDF :534594.3/22

Left: 4332.940+/-0.516 χ^2/NDF : 920558.3/47

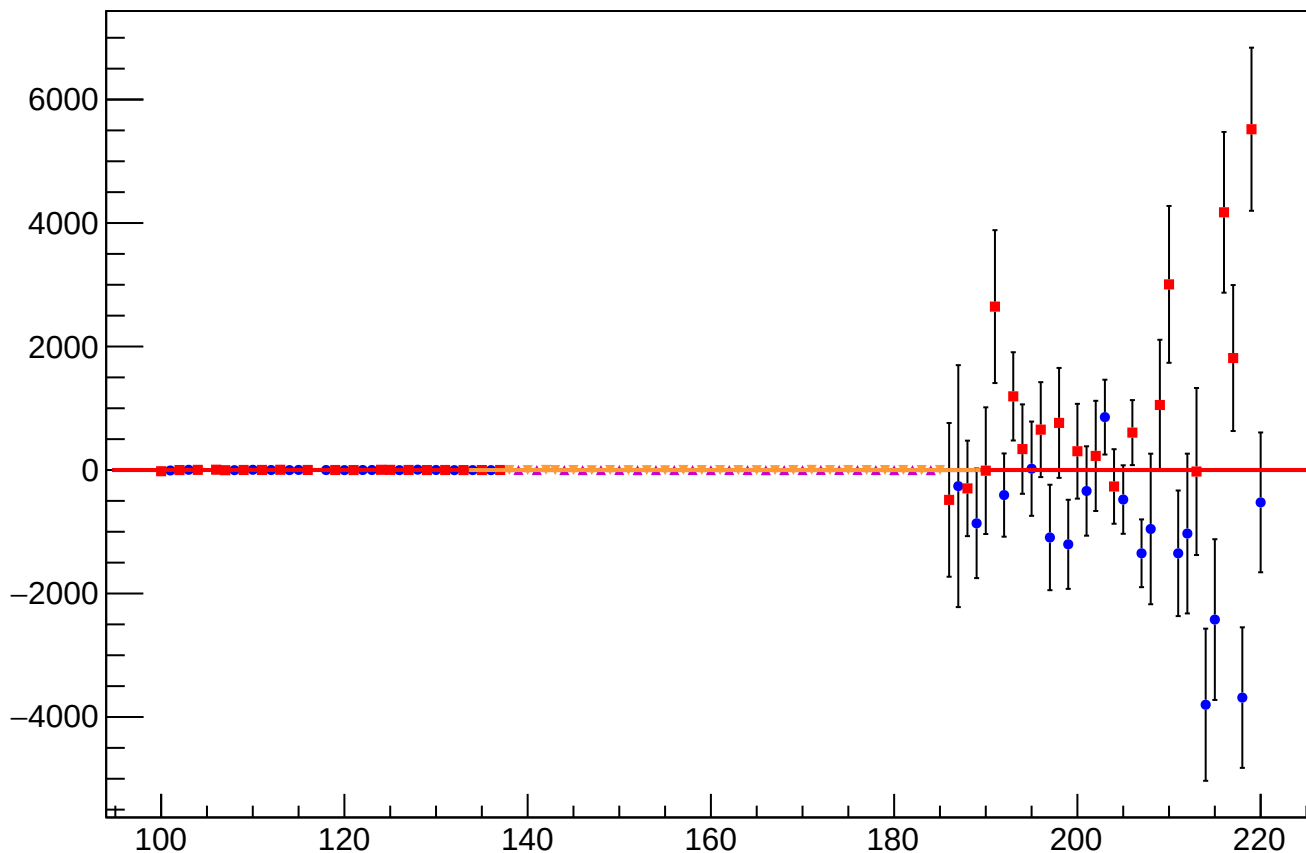
Right: 9.964+/-0.004 χ^2/NDF : 69367027.2/68

In: 10.353+/-0.007 χ^2/NDF :69294189.3/55

Out: 10.227+/-0.006 χ^2/NDF :71196173.5/60

All: 10.286+/-0.004 χ^2/NDF : 140490563.0/117

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 χ^2/NDF : 63.9/33

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.765 ± 0.502 χ^2/NDF : 59.5/36

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

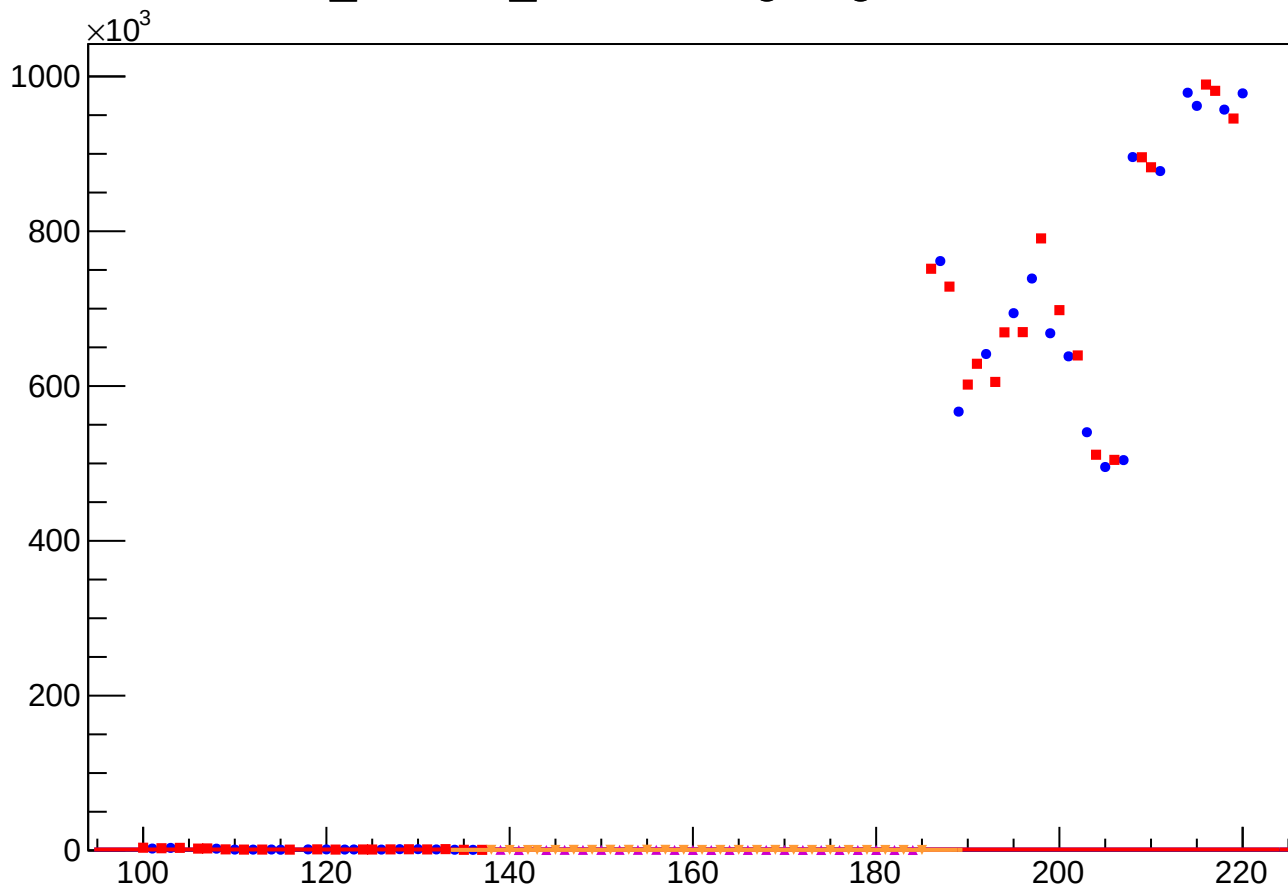
Right: 0.004 ± 0.349 χ^2/NDF : 127.8/70

In: -0.059 ± 0.161 χ^2/NDF : 95.1/56

Out: -0.626 ± 0.156 χ^2/NDF : 126.4/61

All: -0.350 ± 0.112 χ^2/NDF : 227.9/118

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.488+/-0.343 χ^2/NDF : 19713318.2/32

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.677+/-0.355 χ^2/NDF : 19391376.6/35

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

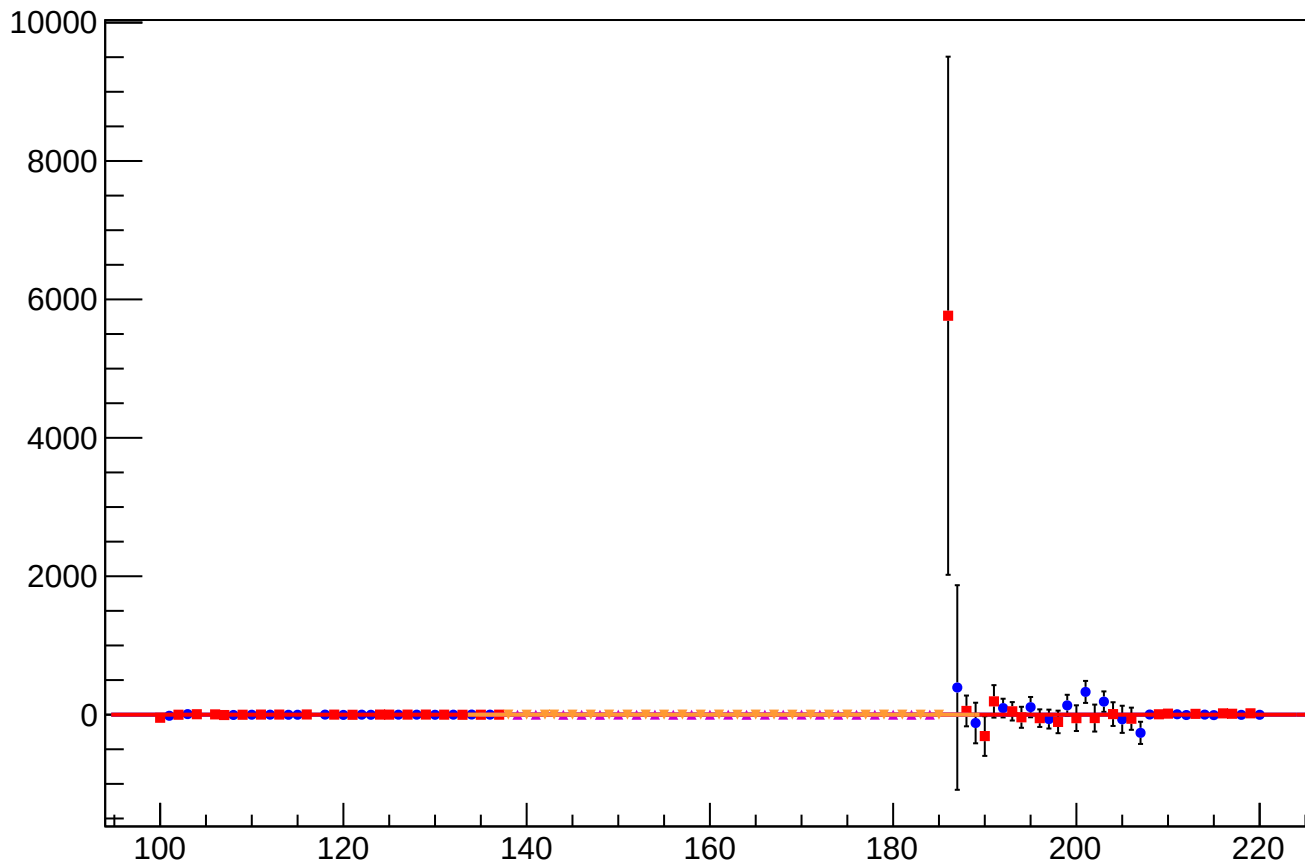
Right: 1208.609+/-0.247 χ^2/NDF : 39134477.7/68

In: 757.403+/-0.114 χ^2/NDF : 21657193.5/55

Out: 754.177+/-0.110 χ^2/NDF : 21966485.7/60

All: 755.746+/-0.079 χ^2/NDF : 43624094.2/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.077 ± 0.268 χ^2/NDF : 35.6/33

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.027 ± 0.263 χ^2/NDF : 76.1/36

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

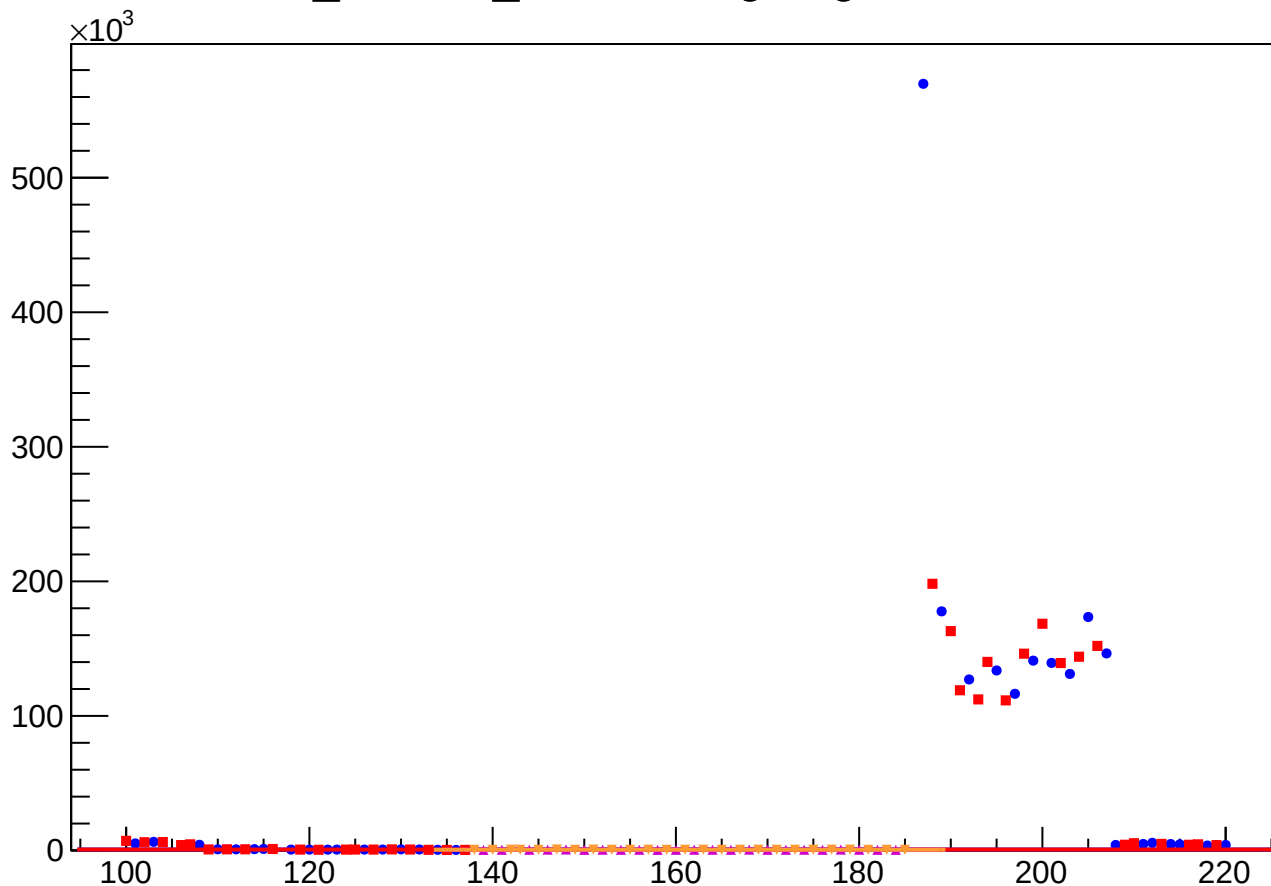
Right: -0.051 ± 0.188 χ^2/NDF : 111.7/70

In: -0.108 ± 0.114 χ^2/NDF : 70.6/56

Out: 0.189 ± 0.111 χ^2/NDF : 94.5/61

All: 0.044 ± 0.079 χ^2/NDF : 168.6/118

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 683.449 $\pm$ 0.189 χ^2 /NDF: 24457062.5/33

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF:331573.1/24

Right Out: 661.976 $\pm$ 0.186 χ^2 /NDF: 24839061.1/35

Left In: 519.909 $\pm$ 0.089 χ^2 /NDF:444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2 /NDF: 776728.3/47

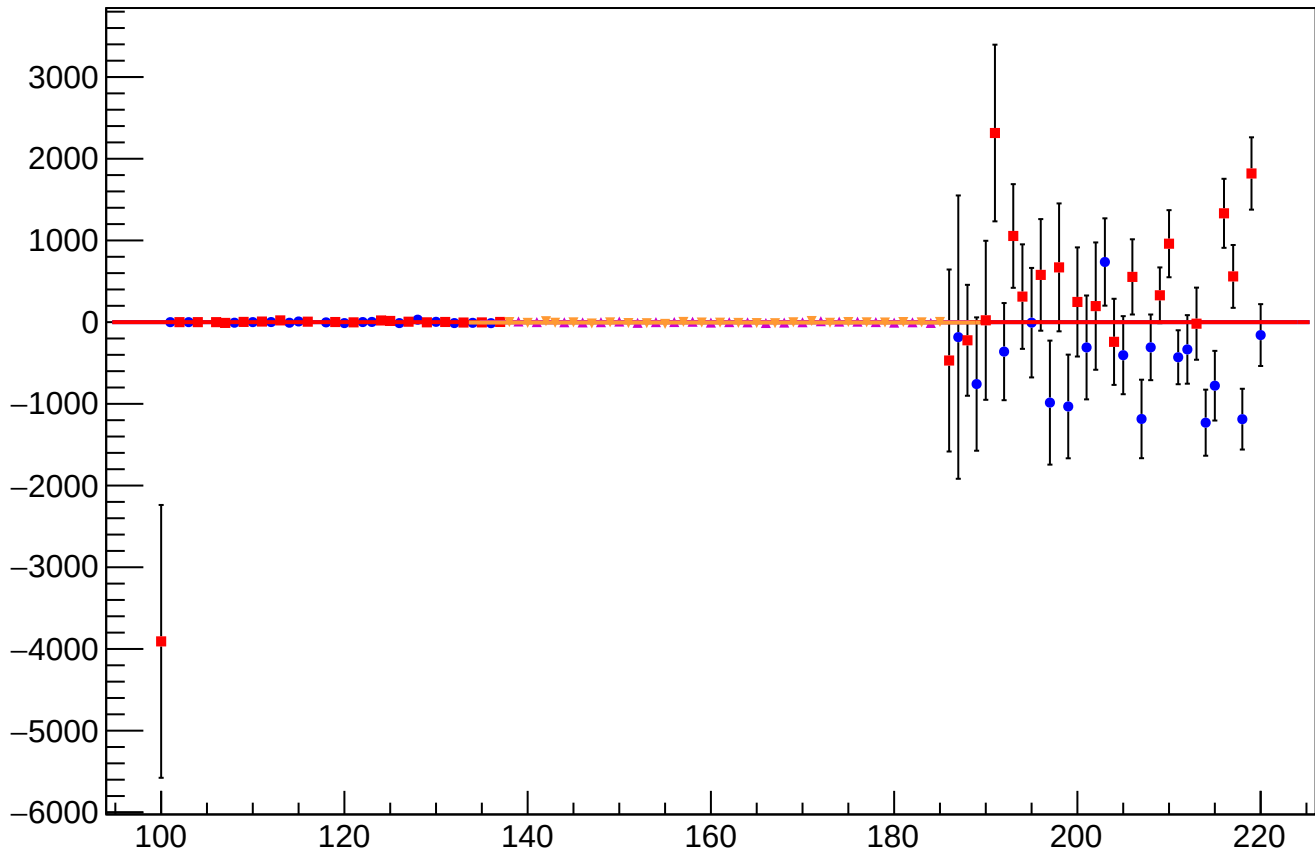
Right: 672.504 $\pm$ 0.133 χ^2 /NDF: 49302669.6/69

In: 549.325 $\pm$ 0.080 χ^2 /NDF:25512721.6/56

Out: 547.318 $\pm$ 0.079 χ^2 /NDF:25633949.6/60

All: 548.298 $\pm$ 0.056 χ^2 /NDF: 51146990.2/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 56.0/33

Left Out: -4.474 $\pm$ 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 63.3/36

Left In: 0.193 $\pm$ 0.990 χ^2/NDF : 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2/NDF : 99.0/47

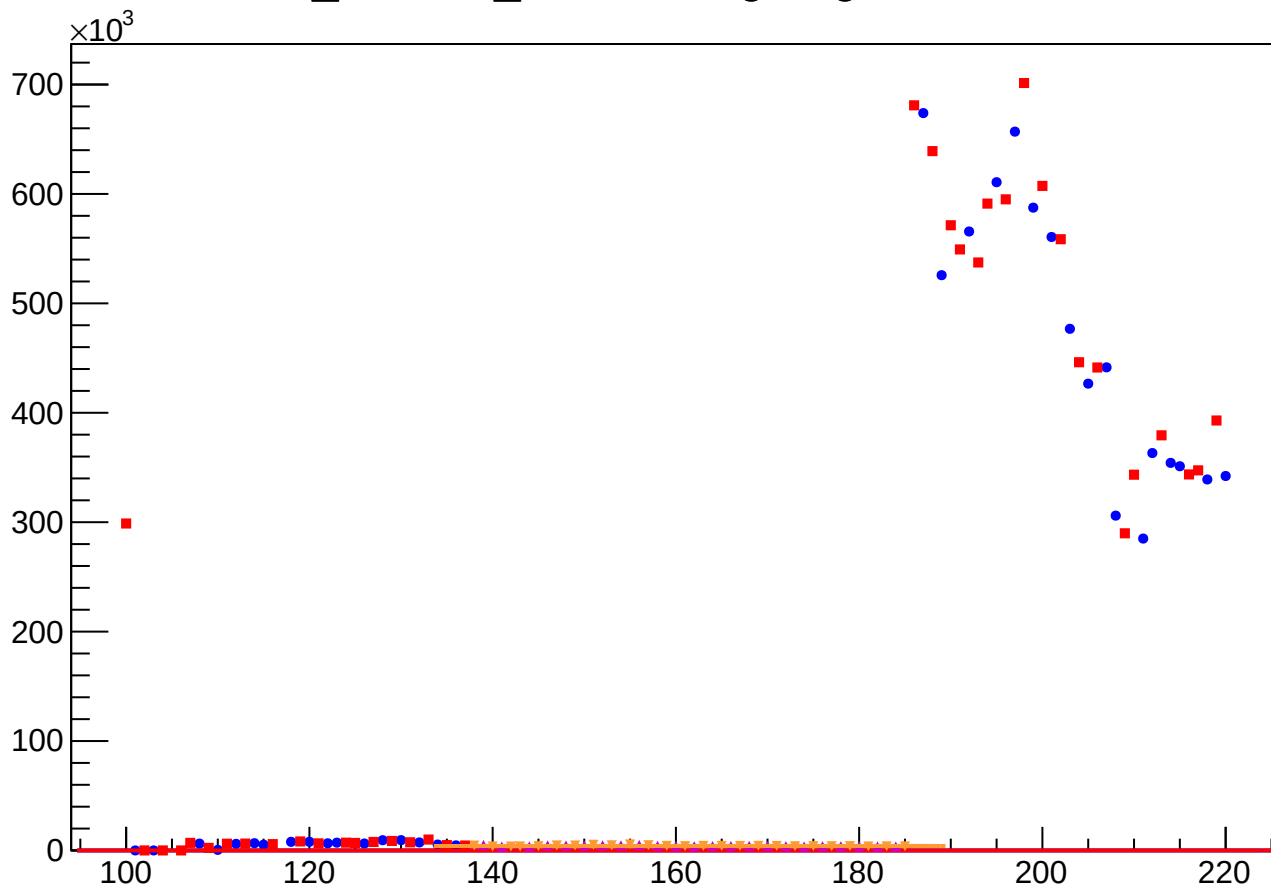
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 122.2/70

In: -0.022 $\pm$ 0.021 χ^2/NDF : 85.3/56

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 143.7/61

All: 0.003 $\pm$ 0.014 χ^2/NDF : 231.6/118

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.348+/-0.015 χ^2/NDF : 34901083.0/33

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.278+/-0.014 χ^2/NDF : 35531892.1/36

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

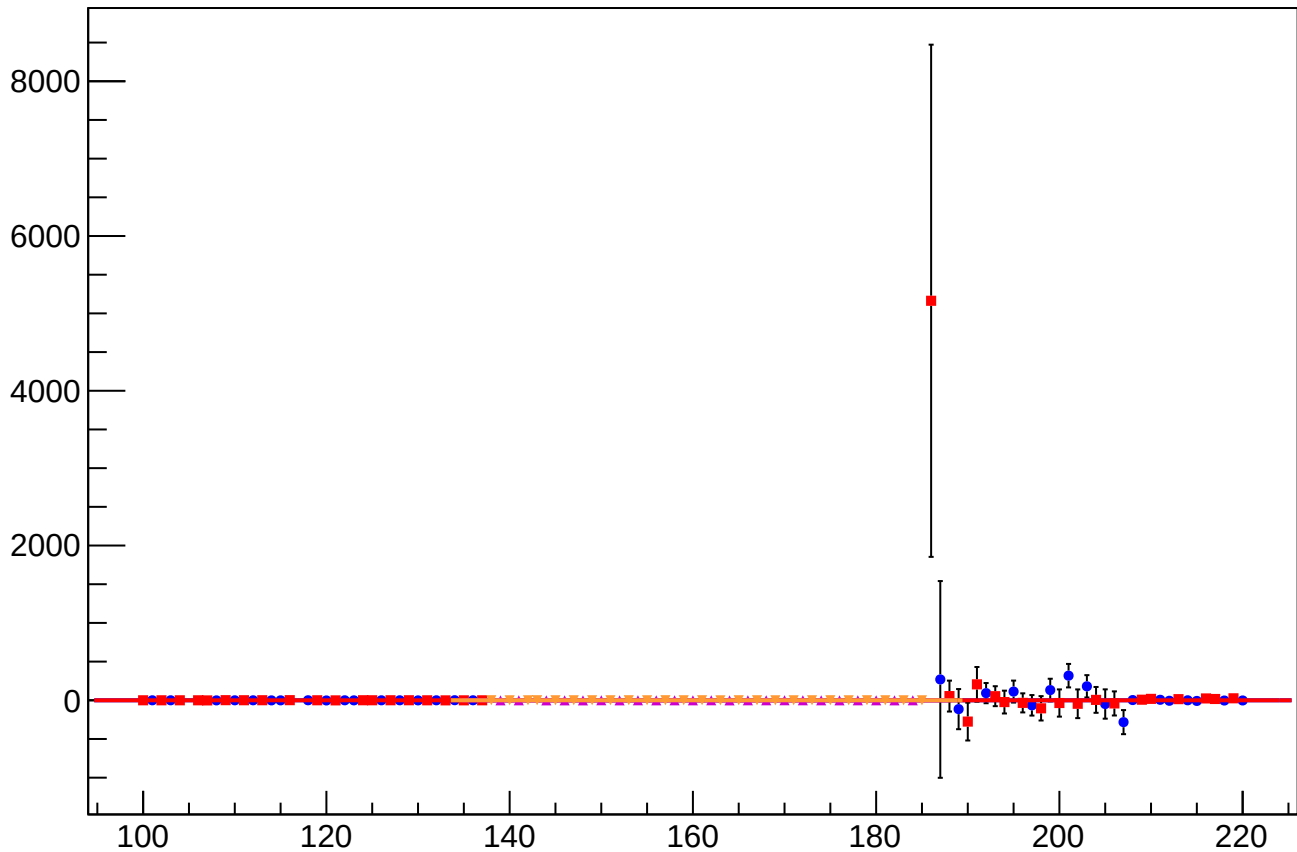
Right: 17.311+/-0.010 χ^2/NDF : 70432987.1/70

In: 19.154+/-0.015 χ^2/NDF : 69470122.5/56

Out: 19.015+/-0.014 χ^2/NDF : 71984700.6/61

All: 19.081+/-0.010 χ^2/NDF : 141454870.2/11

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 30.8/33

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 78.1/36

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

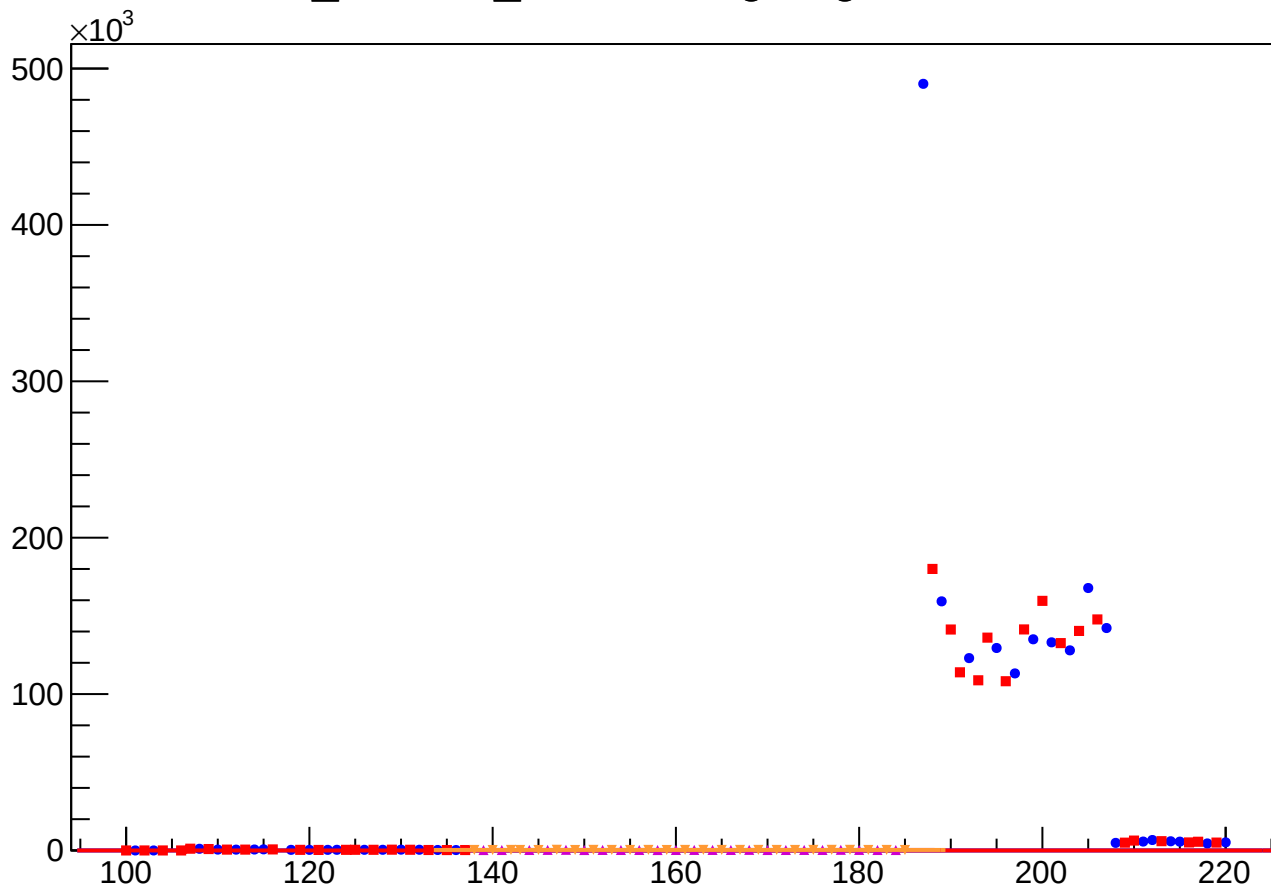
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 109.1/70

In: 0.000 $\pm$ 0.002 χ^2 /NDF:66.5/56

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:98.8/61

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 165.5/118

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.702 $\pm$ 0.001 χ^2 /NDF: 35099347.7/33

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24

Right Out: 1.731 $\pm$ 0.001 χ^2 /NDF: 34469594.3/35

Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47

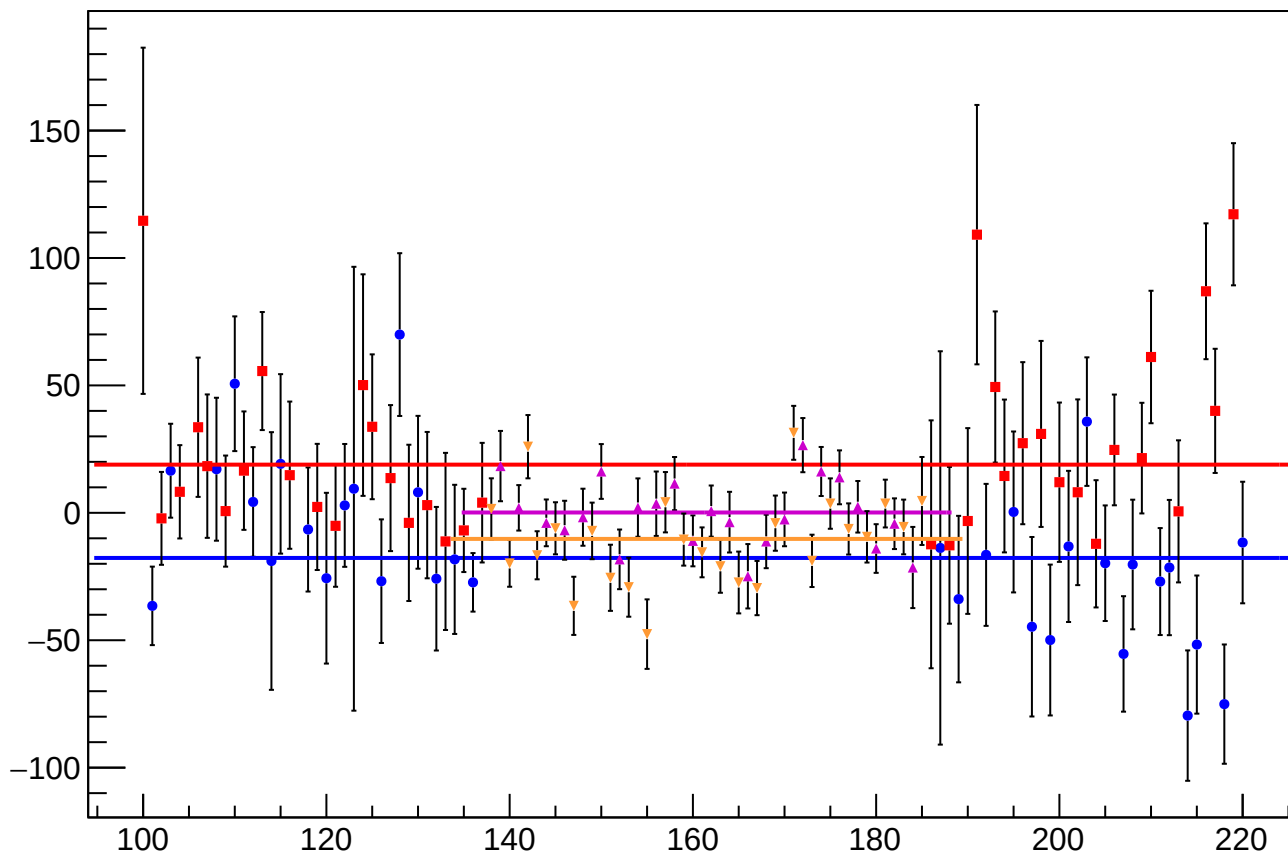
Right: 1.718 $\pm$ 0.001 χ^2 /NDF: 69569156.2/69

In: 1.918 $\pm$ 0.001 χ^2 /NDF:69501953.6/56

Out: 1.940 $\pm$ 0.001 χ^2 /NDF:70776726.9/60

All: 1.929 $\pm$ 0.001 χ^2 /NDF: 140278808.5/117

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -17.706 ± 4.260 $\chi^2/\text{NDF}: 49.0/33$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 18.908 ± 4.375 $\chi^2/\text{NDF}: 44.7/36$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

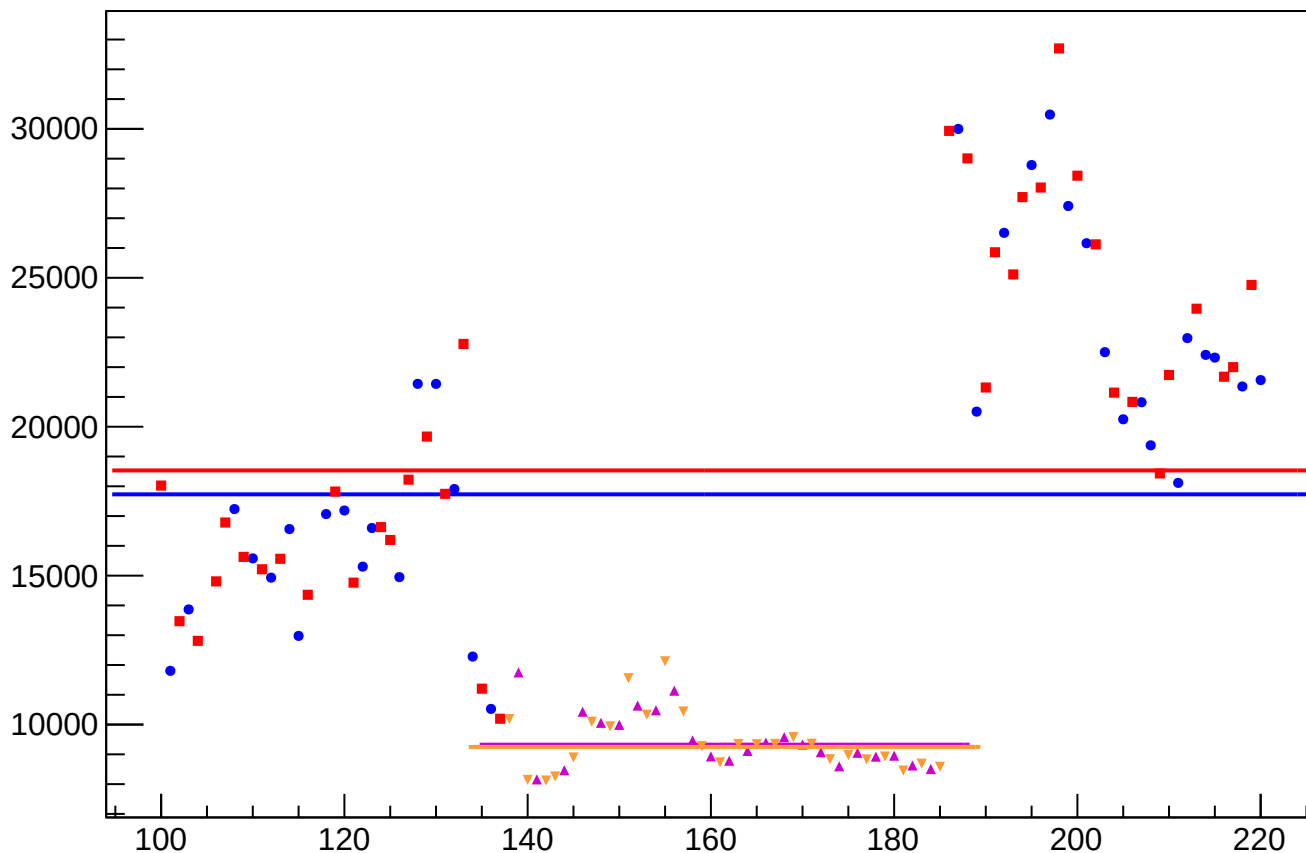
Right: 0.112 ± 3.052 $\chi^2/\text{NDF}: 129.7/70$

In: -3.739 ± 1.984 $\chi^2/\text{NDF}: 92.5/56$

Out: -4.496 ± 1.942 $\chi^2/\text{NDF}: 138.4/61$

All: -4.126 ± 1.388 $\chi^2/\text{NDF}: 230.9/118$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17729.698 $\pm$ 3.012 χ^2 /NDF: 3023038.1/33

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 18532.592 $\pm$ 3.094 χ^2 /NDF: 3069506.2/36

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

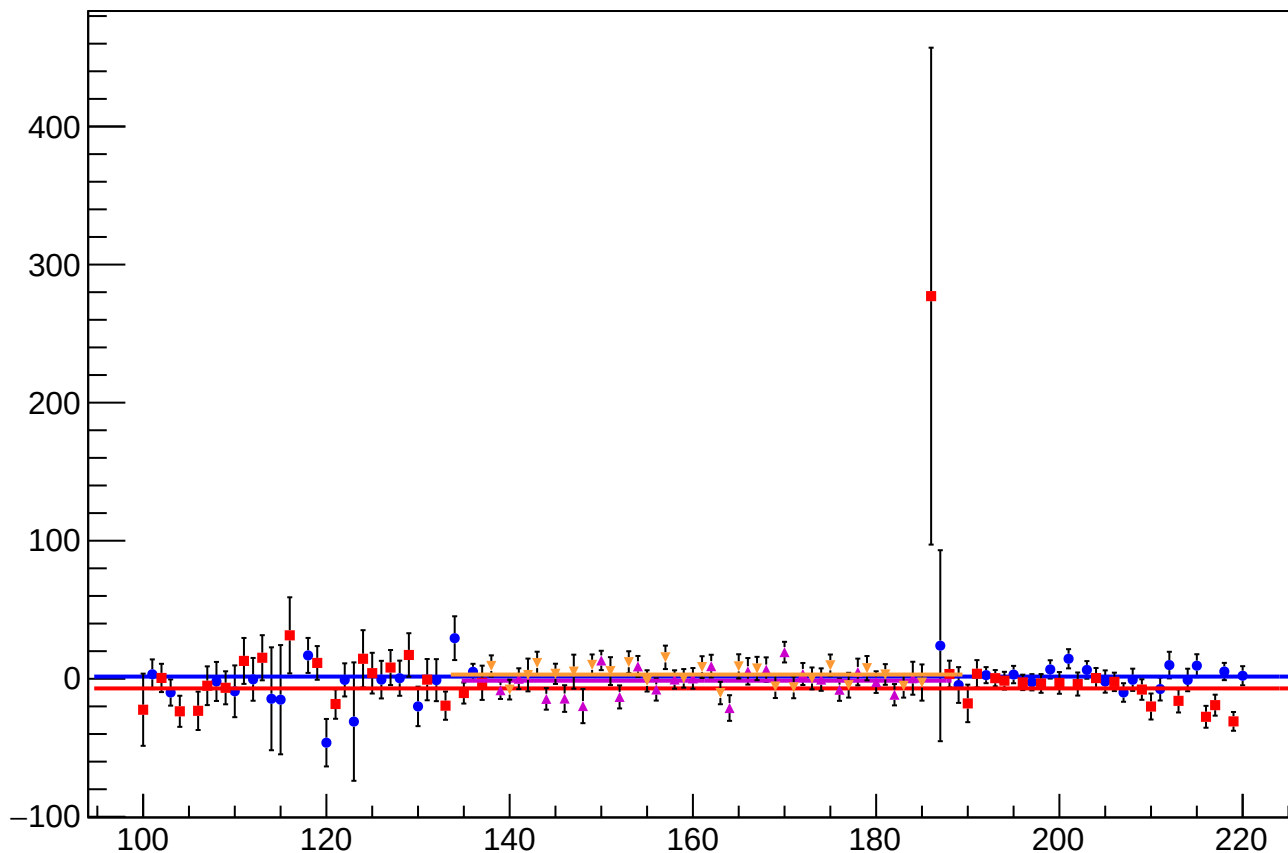
Right: 18120.412 $\pm$ 2.158 χ^2 /NDF: 6127117.3/70

In: 11148.396 $\pm$ 1.403 χ^2 /NDF:9400018.4/56

Out: 11077.434 $\pm$ 1.373 χ^2 /NDF:10631685.1/61

All: 11112.146 $\pm$ 0.981 χ^2 /NDF: 20033010.3/117

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.596 ± 1.549 χ^2/NDF : 29.9/33

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -6.971 ± 1.545 χ^2/NDF : 55.8/36

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

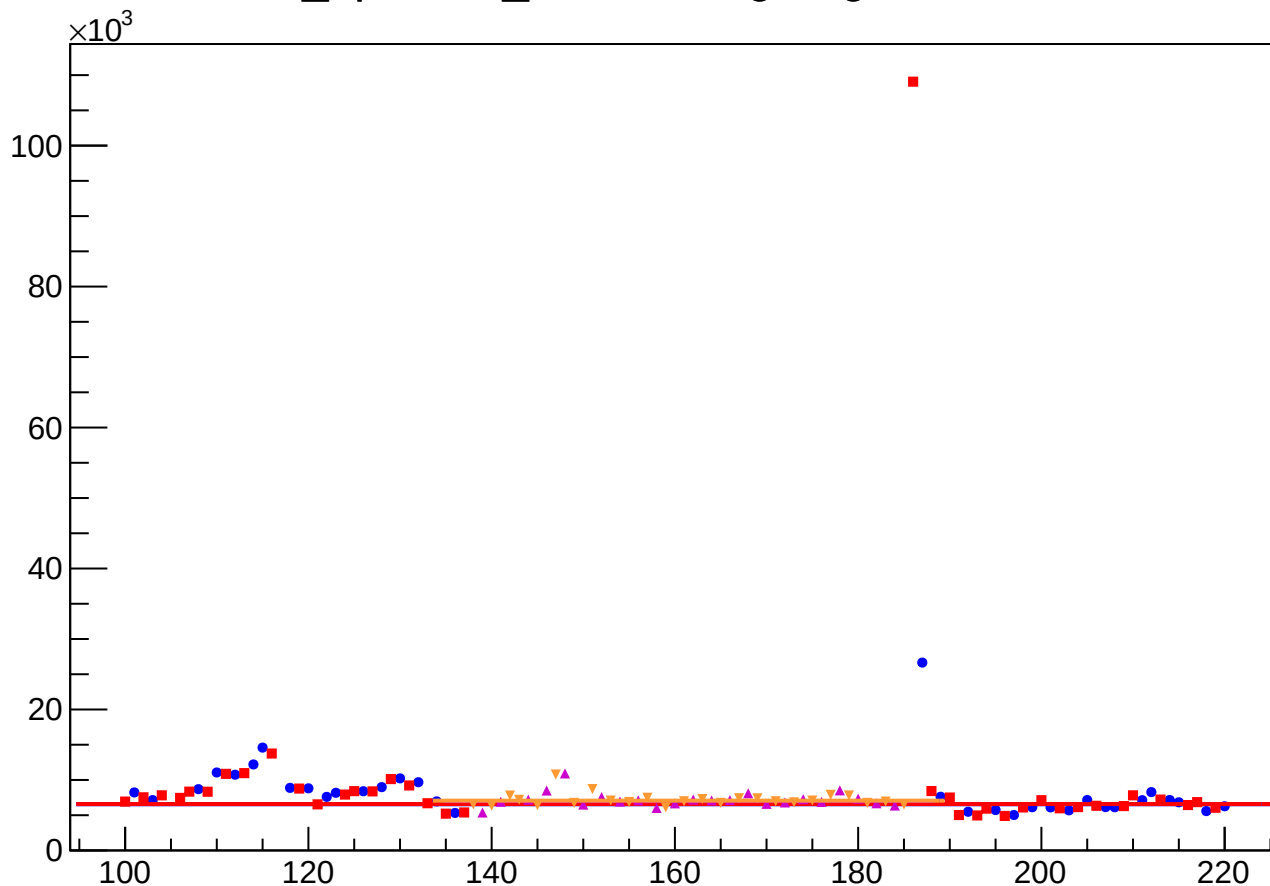
Right: -2.698 ± 1.094 χ^2/NDF : 101.0/70

In: 0.233 ± 1.143 χ^2/NDF : 67.0/56

Out: -2.310 ± 1.131 χ^2/NDF : 93.7/61

All: -1.052 ± 0.804 χ^2/NDF : 163.1/118

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6554.819 ± 1.095 $\chi^2/\text{NDF}: 1664225.2/33$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6582.397 ± 1.093 $\chi^2/\text{NDF}: 2166182.4/36$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

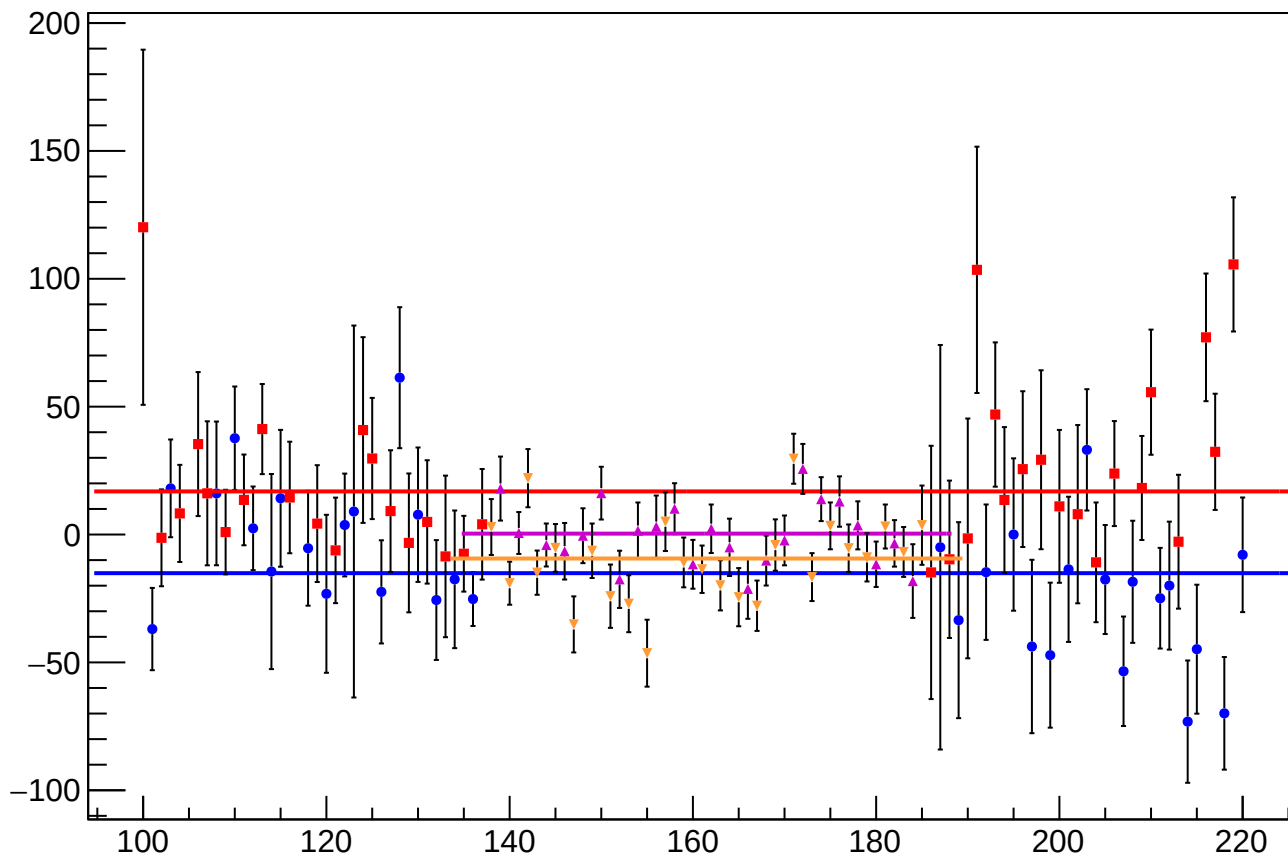
Right: 6568.643 ± 0.774 $\chi^2/\text{NDF}: 3830725.3/70$

In: 6757.926 ± 0.808 $\chi^2/\text{NDF}: 2289690.5/56$

Out: 6807.465 ± 0.800 $\chi^2/\text{NDF}: 2644950.2/61$

All: 6782.963 ± 0.568 $\chi^2/\text{NDF}: 4936539.5/11$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.107 ± 3.907 $\chi^2/\text{NDF}: 50.0/33$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 16.860 ± 3.978 $\chi^2/\text{NDF}: 41.9/36$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

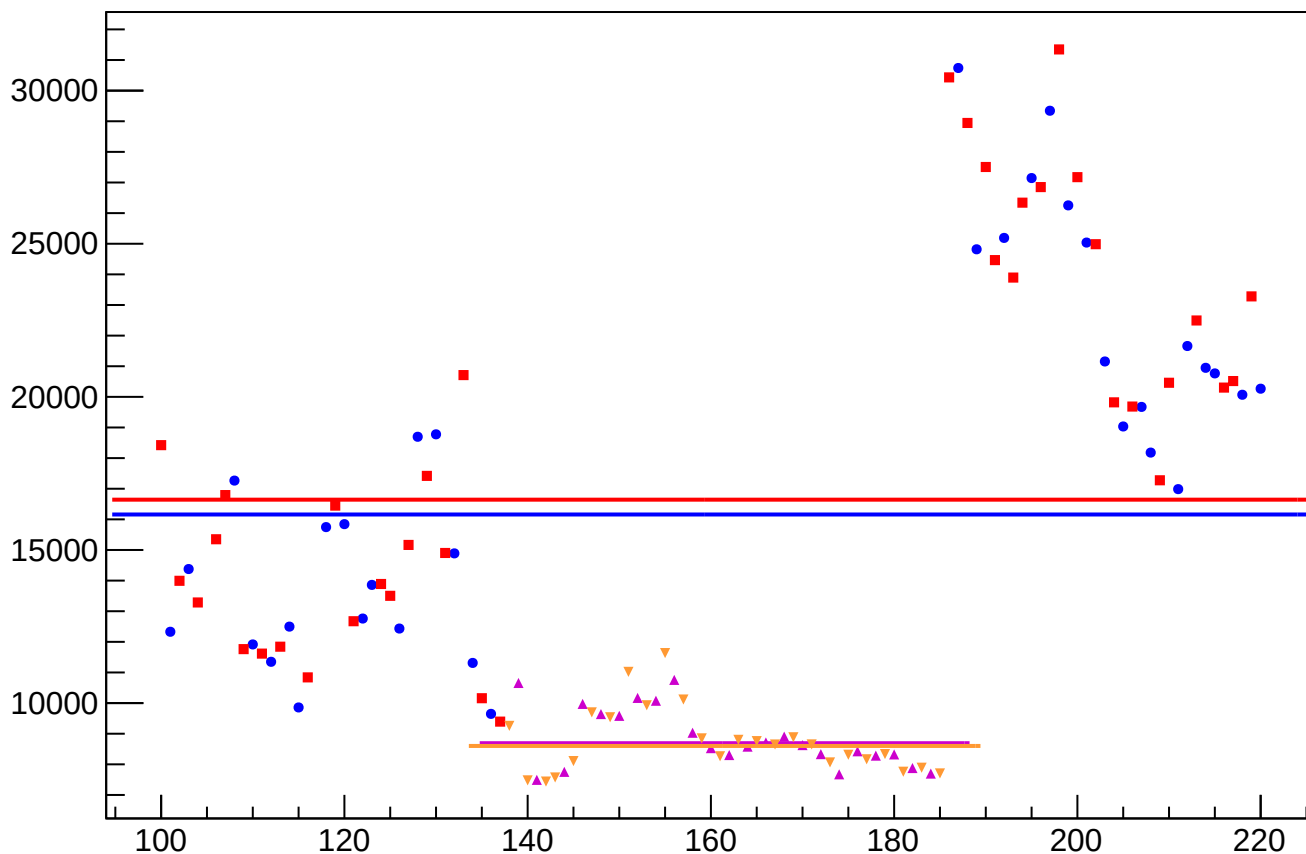
Right: 0.591 ± 2.787 $\chi^2/\text{NDF}: 124.7/70$

In: -3.092 ± 1.844 $\chi^2/\text{NDF}: 91.8/56$

Out: -4.006 ± 1.799 $\chi^2/\text{NDF}: 134.9/61$

All: -3.560 ± 1.288 $\chi^2/\text{NDF}: 226.8/118$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16158.747 $\pm$ 2.763 χ^2 /NDF: 3523129.0/33

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16642.981 $\pm$ 2.813 χ^2 /NDF: 3913659.7/36

Left In: 8690.209 $\pm$ 1.479 χ^2 /NDF:370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2 /NDF: 810970.4/47

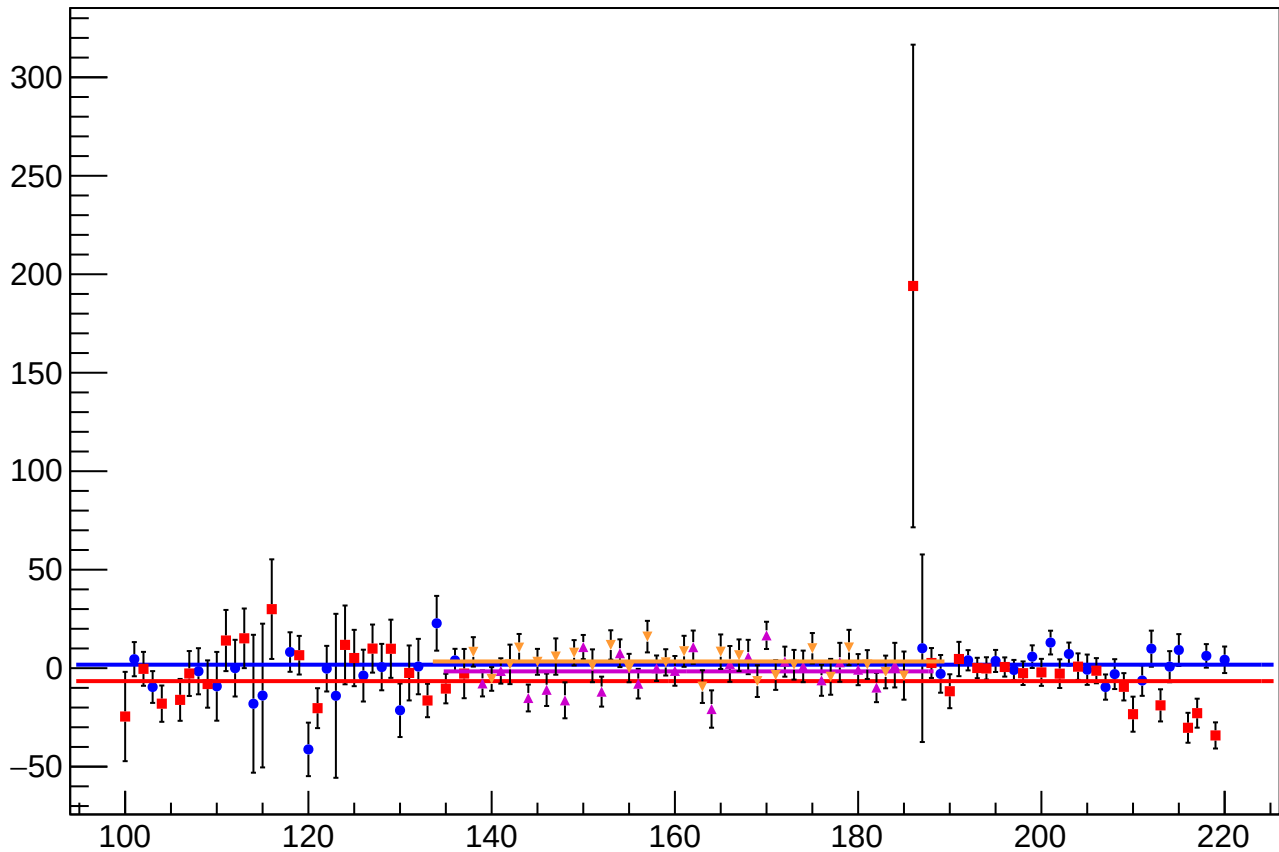
Right: 16396.542 $\pm$ 1.971 χ^2 /NDF: 7451874.5/70

In: 10354.544 $\pm$ 1.304 χ^2 /NDF:9573222.8/56

Out: 10246.533 $\pm$ 1.272 χ^2 /NDF:10855229.4/61

All: 10299.205 $\pm$ 0.911 χ^2 /NDF: 20431966.2/117

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.765 ± 1.412 χ^2/NDF : 32.0/33

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -6.581 ± 1.389 χ^2/NDF : 71.7/36

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

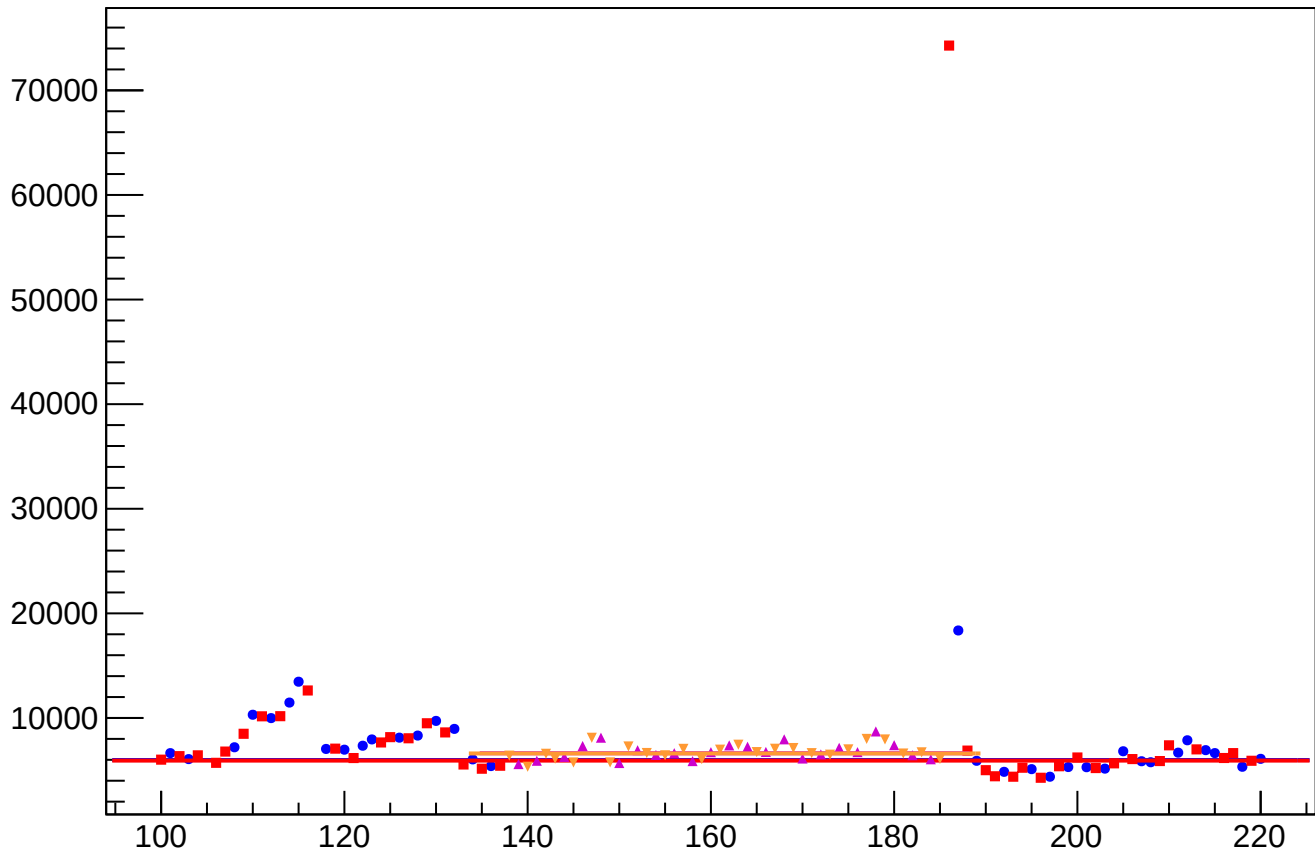
Right: -2.477 ± 0.990 χ^2/NDF : 121.4/70

In: 0.279 ± 1.058 χ^2/NDF : 68.0/56

Out: -2.136 ± 1.034 χ^2/NDF : 111.6/61

All: -0.956 ± 0.740 χ^2/NDF : 182.2/118

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5978.216+/-0.998 χ^2/NDF : 1663993.2/33

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5926.595+/-0.982 χ^2/NDF : 2254524.7/36

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

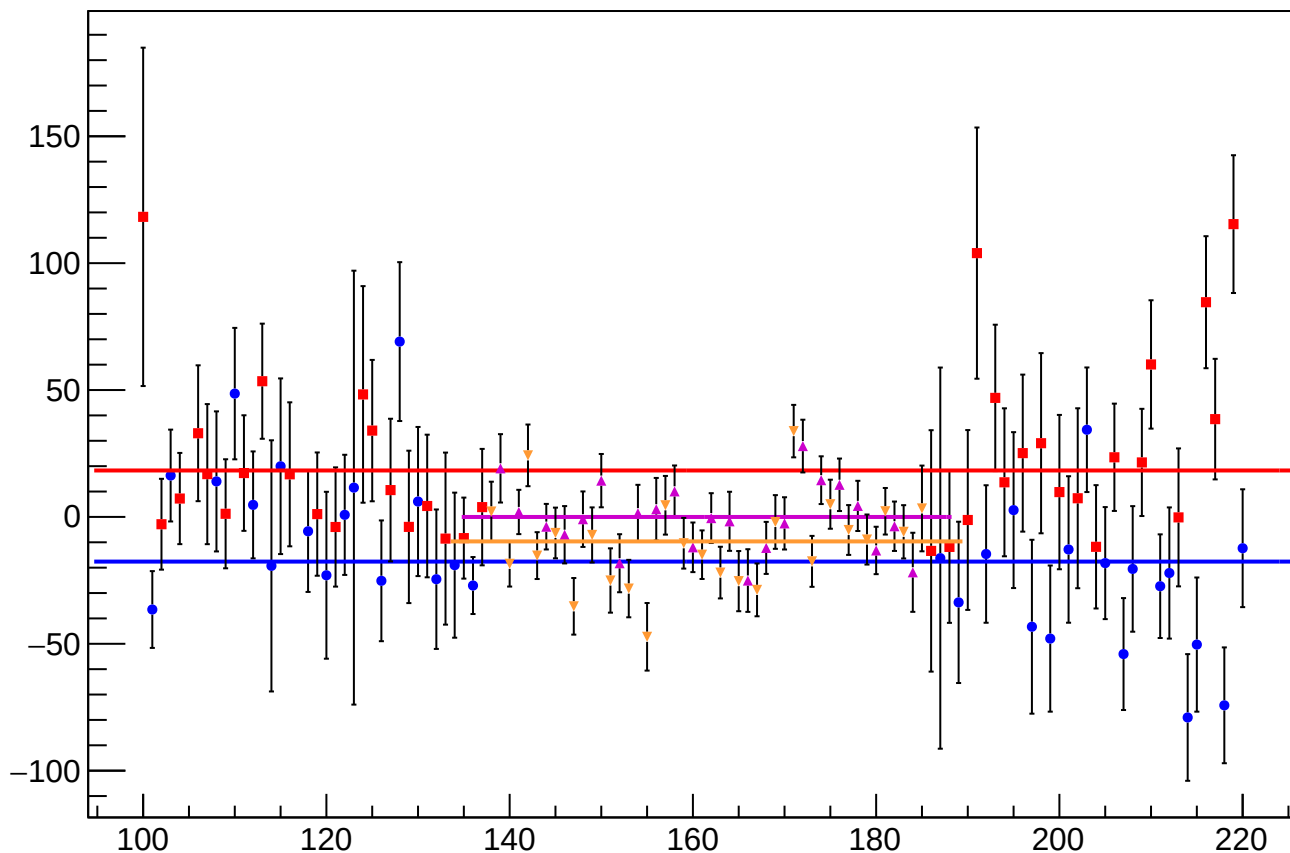
Right: 5951.983+/-0.700 χ^2/NDF : 3919876.9/70

In: 6263.110+/-0.748 χ^2/NDF : 2280235.1/56

Out: 6229.530+/-0.731 χ^2/NDF : 2866710.7/61

All: 6245.938+/-0.523 χ^2/NDF : 5147975.4/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -17.606 $\pm$ 4.163 χ^2/NDF : 49.1/33

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 18.302 $\pm$ 4.277 χ^2/NDF : 45.2/36

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

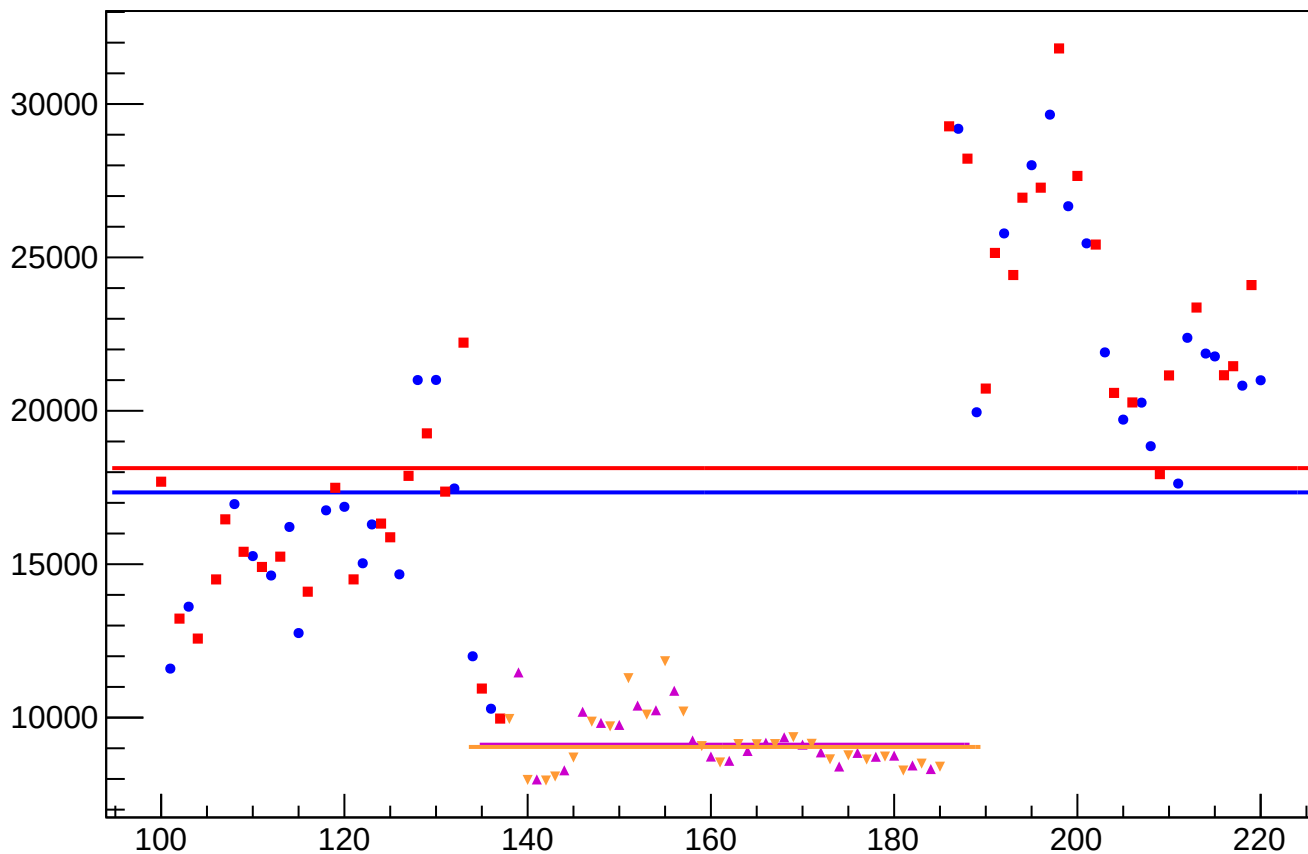
Right: -0.137 $\pm$ 2.983 χ^2/NDF : 130.4/70

In: -3.836 $\pm$ 1.940 χ^2/NDF : 93.7/56

Out: -4.144 $\pm$ 1.898 χ^2/NDF : 139.3/61

All: -3.994 $\pm$ 1.357 χ^2/NDF : 233.0/118

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17340.137 $\pm$ 2.944 χ^2 /NDF: 2972771.3/33

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 18131.521 $\pm$ 3.025 χ^2 /NDF: 3012606.7/36

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF: 277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

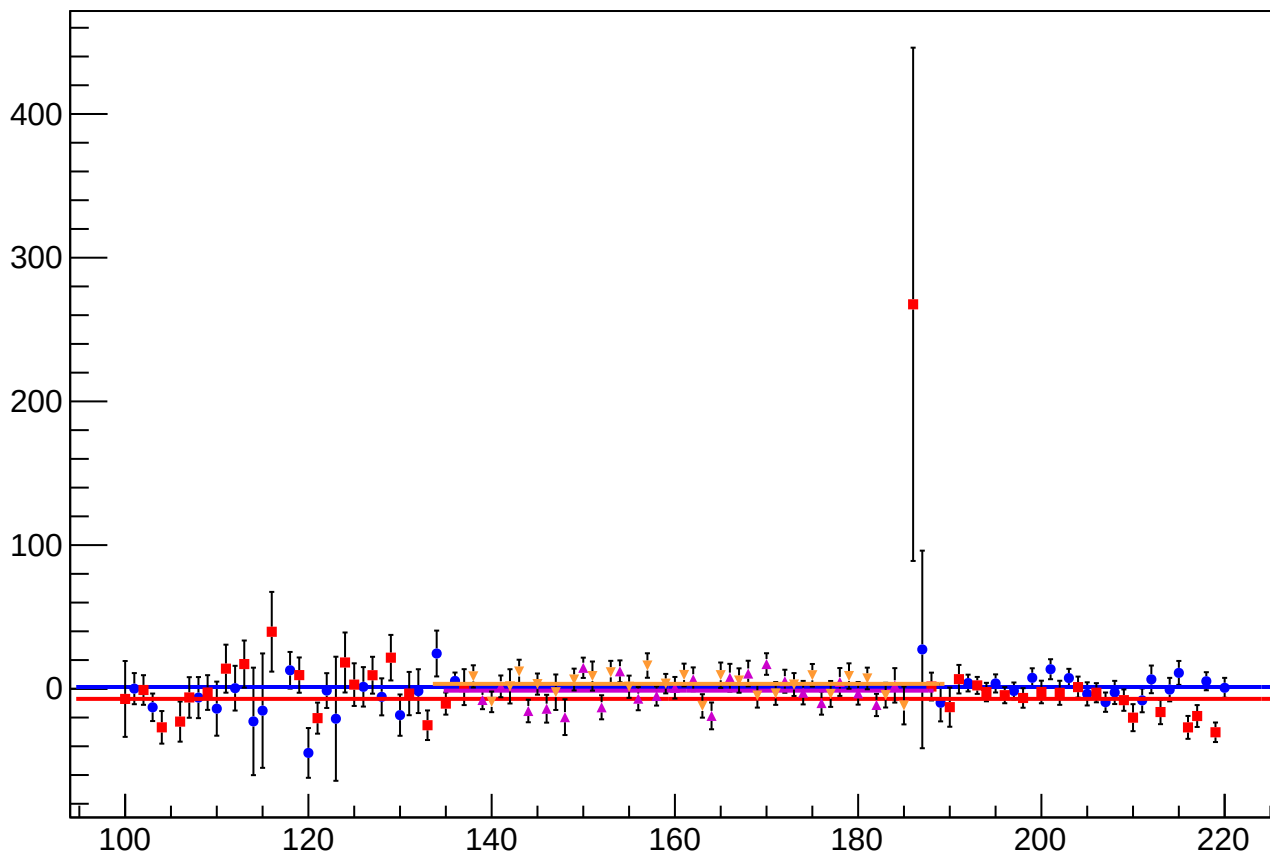
Right: 17725.144 $\pm$ 2.110 χ^2 /NDF: 6020534.6/70

In: 10901.690 $\pm$ 1.371 χ^2 /NDF: 9359429.7/56

Out: 10833.351 $\pm$ 1.342 χ^2 /NDF: 10591408.8/61

All: 10866.784 $\pm$ 0.959 χ^2 /NDF: 19952106.7

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.255 $\pm$ 1.554 χ^2/NDF : 29.6/33

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -7.012 $\pm$ 1.551 χ^2/NDF : 59.8/36

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

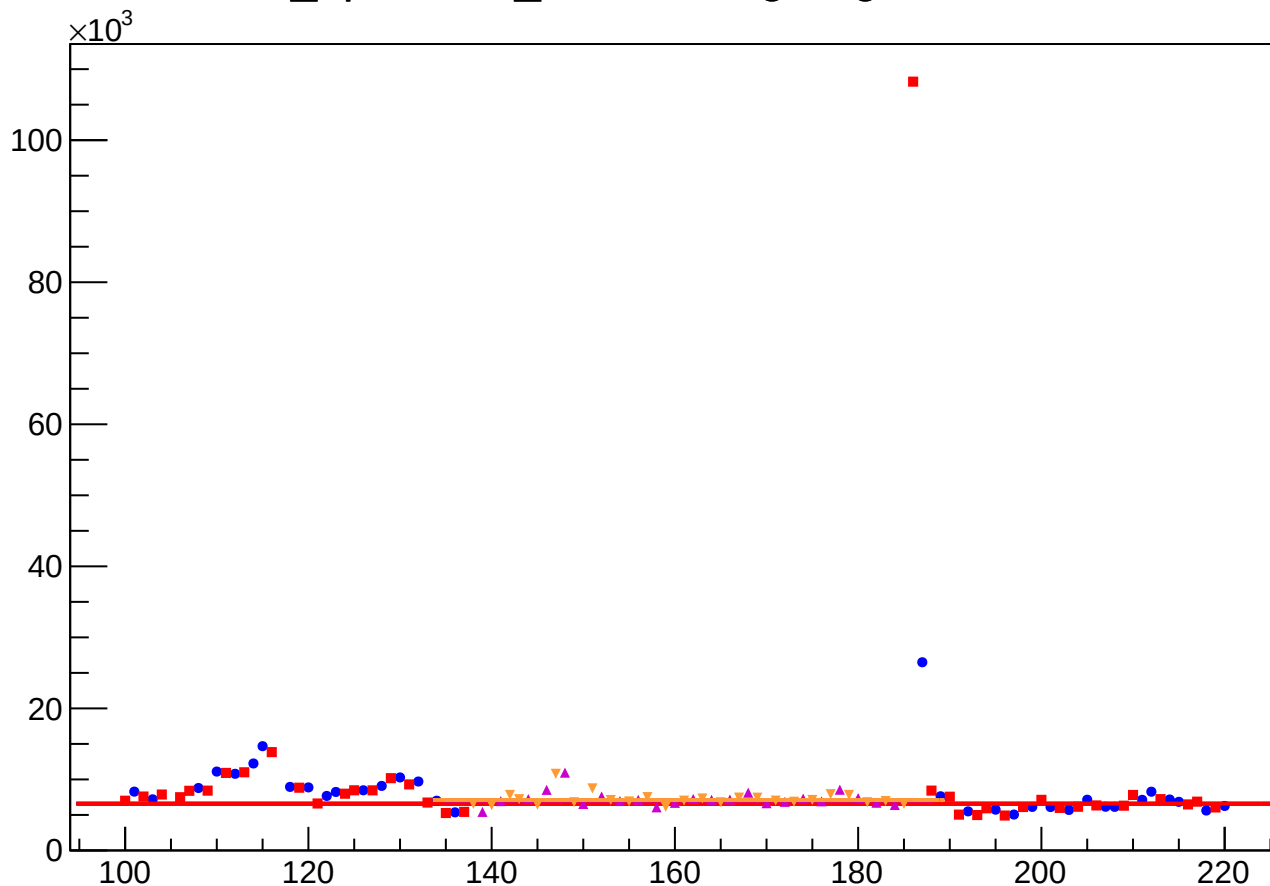
Right: -2.887 $\pm$ 1.098 χ^2/NDF : 103.6/70

In: 0.097 $\pm$ 1.147 χ^2/NDF : 67.4/56

Out: -2.161 $\pm$ 1.135 χ^2/NDF : 99.7/61

All: -1.044 $\pm$ 0.807 χ^2/NDF : 169.1/118

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6574.987 $\pm$ 1.099 χ^2/NDF : 1668816.5/33

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6605.515 $\pm$ 1.096 χ^2/NDF : 2170731.0/36

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

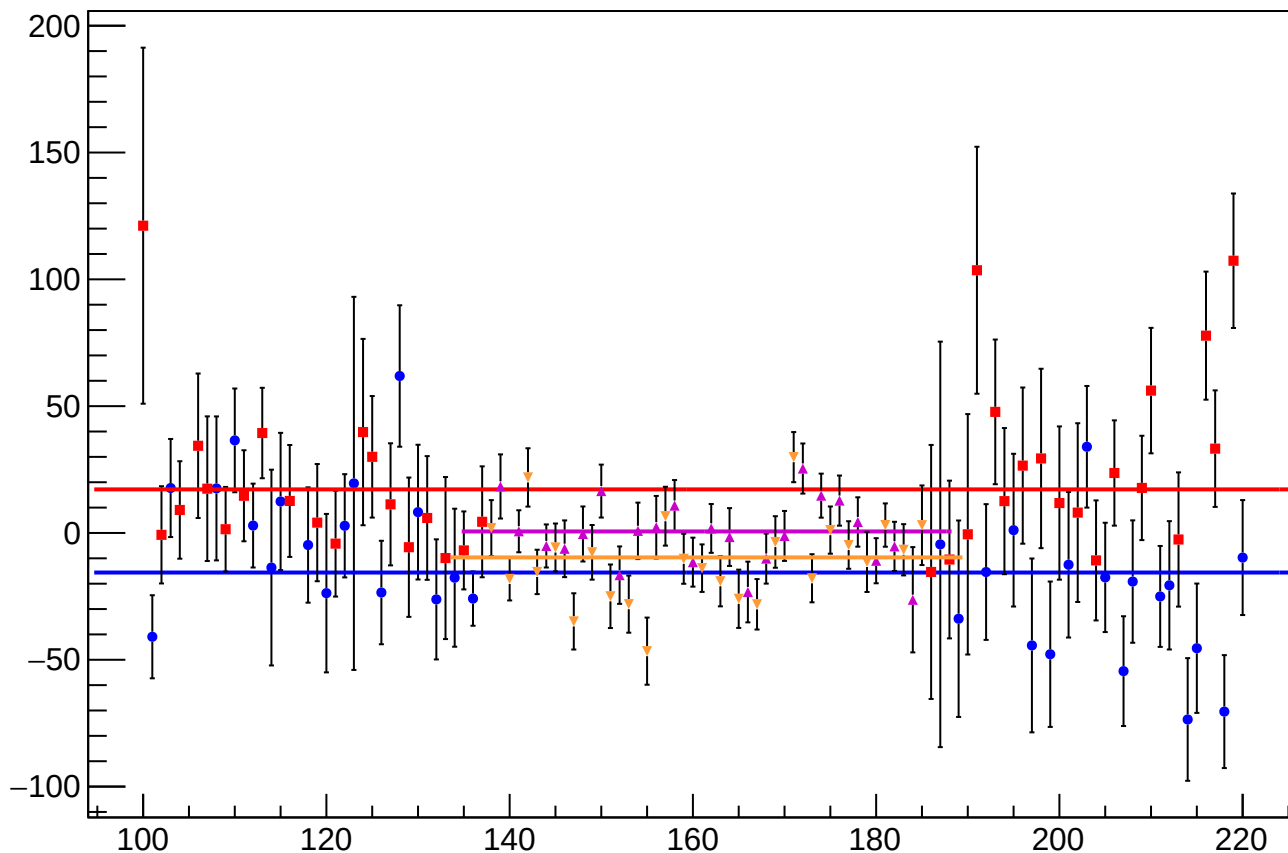
Right: 6590.284 $\pm$ 0.776 χ^2/NDF : 3839934.3/70

In: 6783.664 $\pm$ 0.811 χ^2/NDF : 2289143.9/56

Out: 6834.422 $\pm$ 0.803 χ^2/NDF : 2647204.1/61

All: 6809.314 $\pm$ 0.571 χ^2/NDF : 4938326.6/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -15.600 $\pm$ 3.956 χ^2/NDF : 50.3/33

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 17.184 $\pm$ 4.029 χ^2/NDF : 41.0/36

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

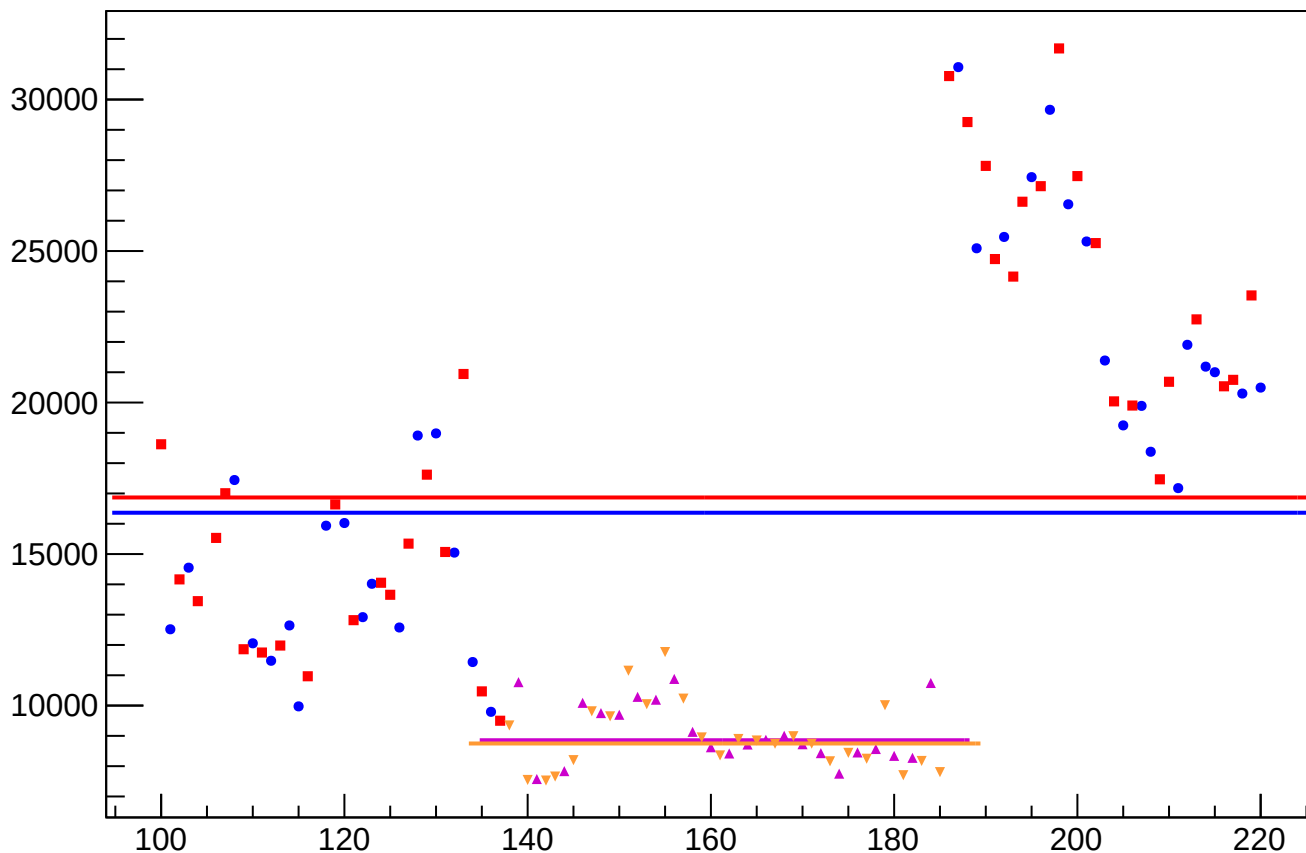
Right: 0.490 $\pm$ 2.823 χ^2/NDF : 124.9/70

In: -3.055 $\pm$ 1.879 χ^2/NDF : 92.9/56

Out: -4.094 $\pm$ 1.832 χ^2/NDF : 133.8/61

All: -3.587 $\pm$ 1.312 χ^2/NDF : 226.8/118

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16363.619+/-2.797 χ^2/NDF : 3497798.8/33

Left Out: 8748.407+/-1.455 χ^2/NDF : 463394.1/24

Right Out: 16867.211+/-2.849 χ^2/NDF : 3871617.8/36

Left In: 8855.591+/-1.510 χ^2/NDF : 367542.7/22

Left: 8800.011+/-1.048 χ^2/NDF : 833550.6/47

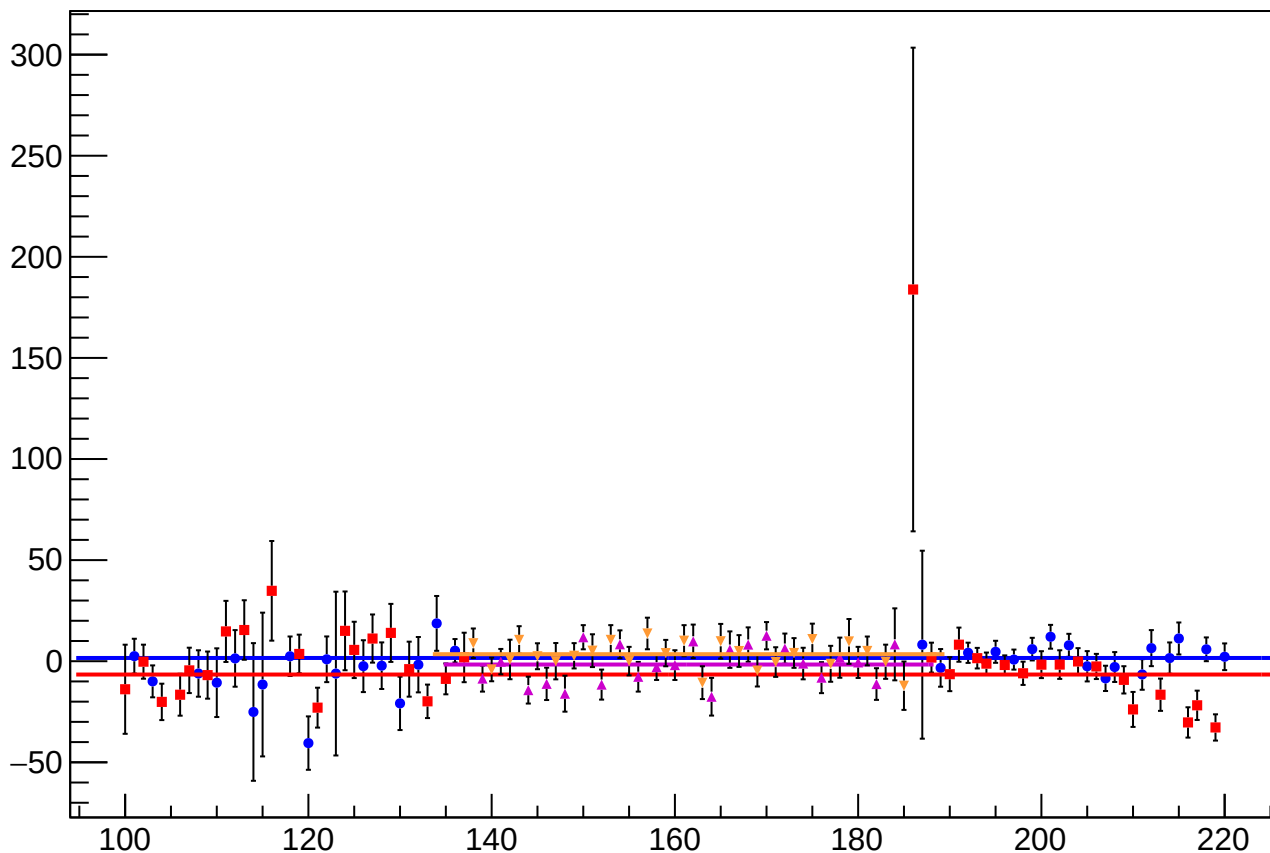
Right: 16610.781+/-1.996 χ^2/NDF : 7385323.5/70

In: 10549.198+/-1.329 χ^2/NDF : 9444386.8/56

Out: 10427.139+/-1.296 χ^2/NDF : 10775578.4/61

All: 10486.636+/-0.928 χ^2/NDF : 20224291.5

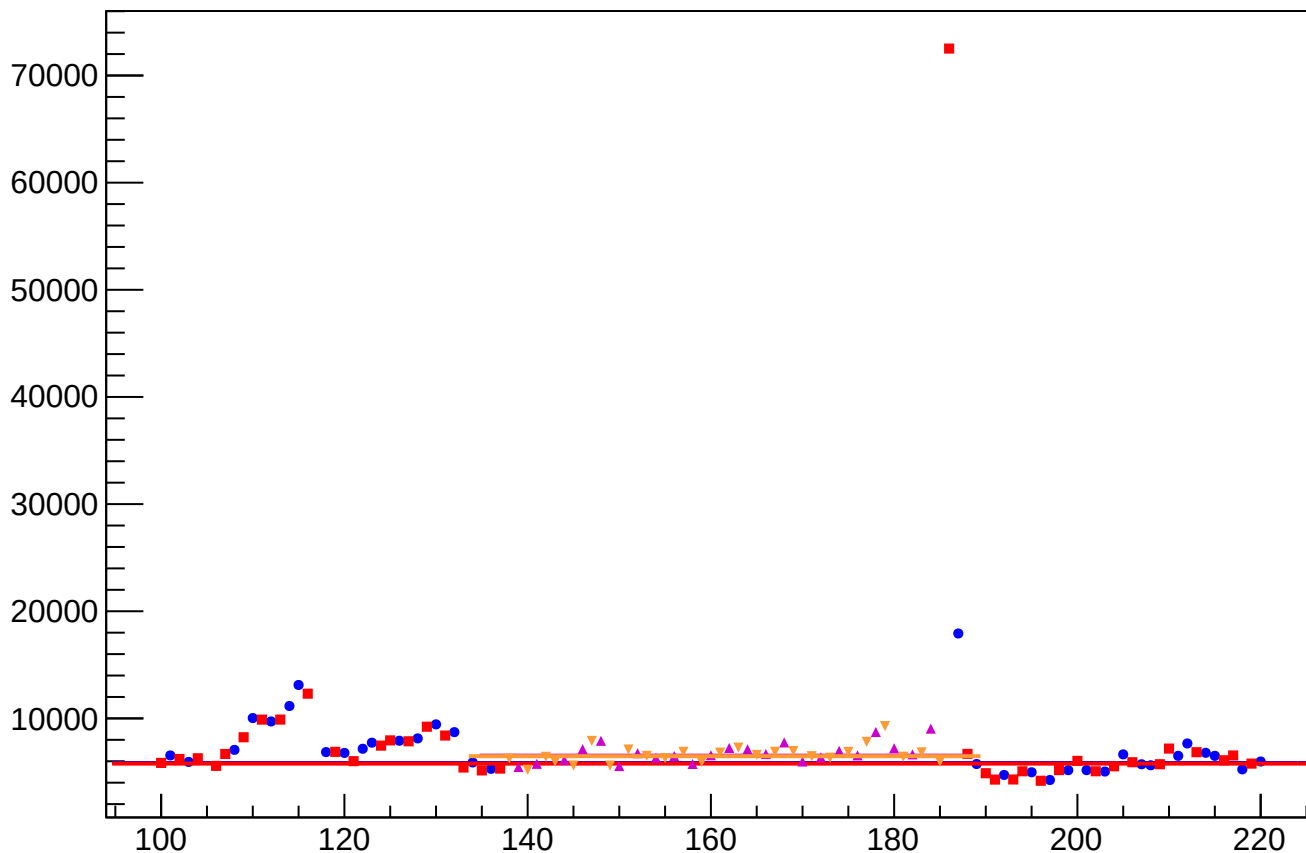
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.604 ± 1.378 χ^2/NDF : 31.9/33
Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24
Right Out: -6.587 ± 1.355 χ^2/NDF : 74.4/36
Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47
Right: -2.561 ± 0.966 χ^2/NDF : 124.2/70
In: 0.201 ± 1.038 χ^2/NDF : 68.0/56
Out: -2.146 ± 1.013 χ^2/NDF : 114.5/61
All: -1.001 ± 0.725 χ^2/NDF : 185.1/118

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5834.285+/-0.975 χ^2/NDF : 1669911.2/33

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5781.141+/-0.958 χ^2/NDF : 2250808.4/36

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

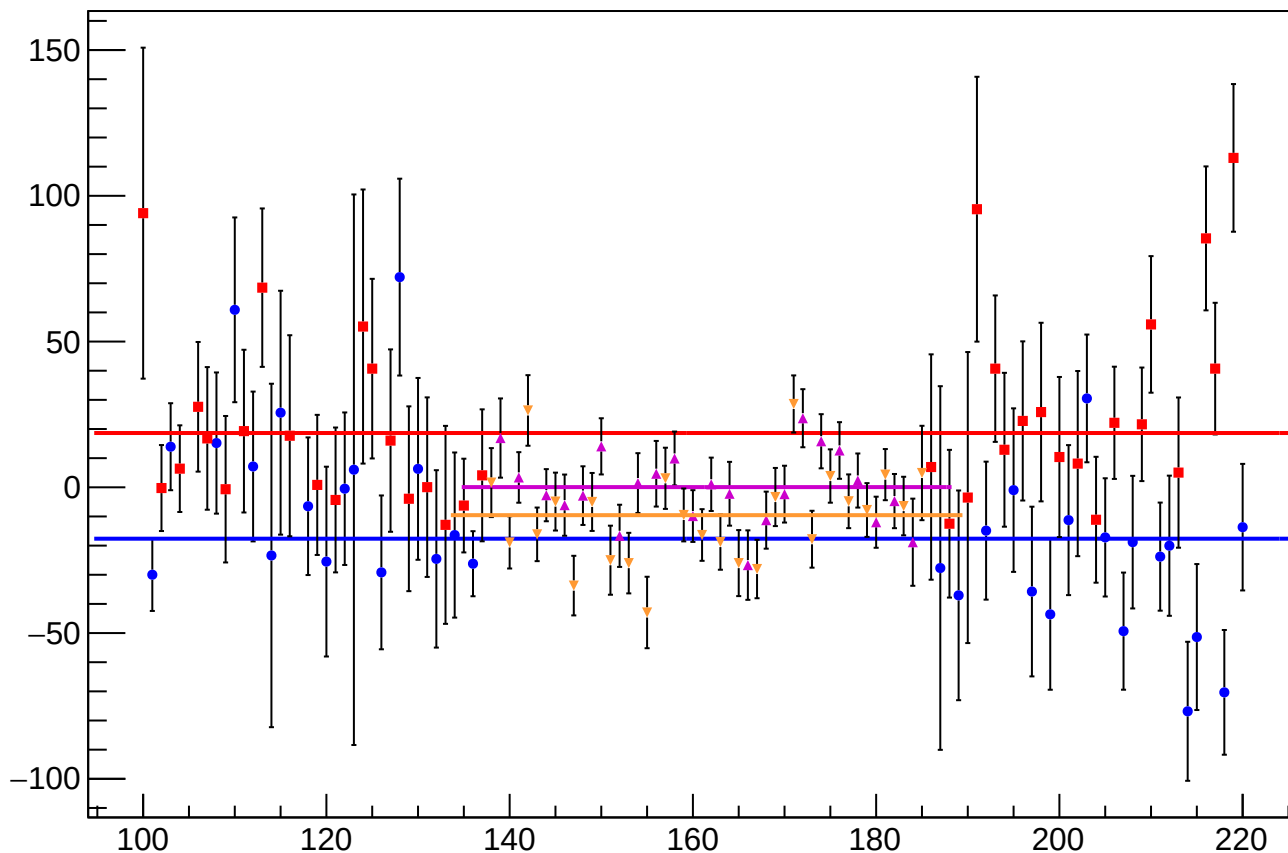
Right: 5807.264+/-0.683 χ^2/NDF : 3922231.5/70

In: 6131.898+/-0.734 χ^2/NDF : 2365435.3/56

Out: 6086.115+/-0.716 χ^2/NDF : 2970544.8/61

All: 6108.443+/-0.513 χ^2/NDF : 5337973.3/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -17.625 $\pm$ 3.967 χ^2/NDF : 48.4/33

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 18.628 $\pm$ 4.095 χ^2/NDF : 47.9/36

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

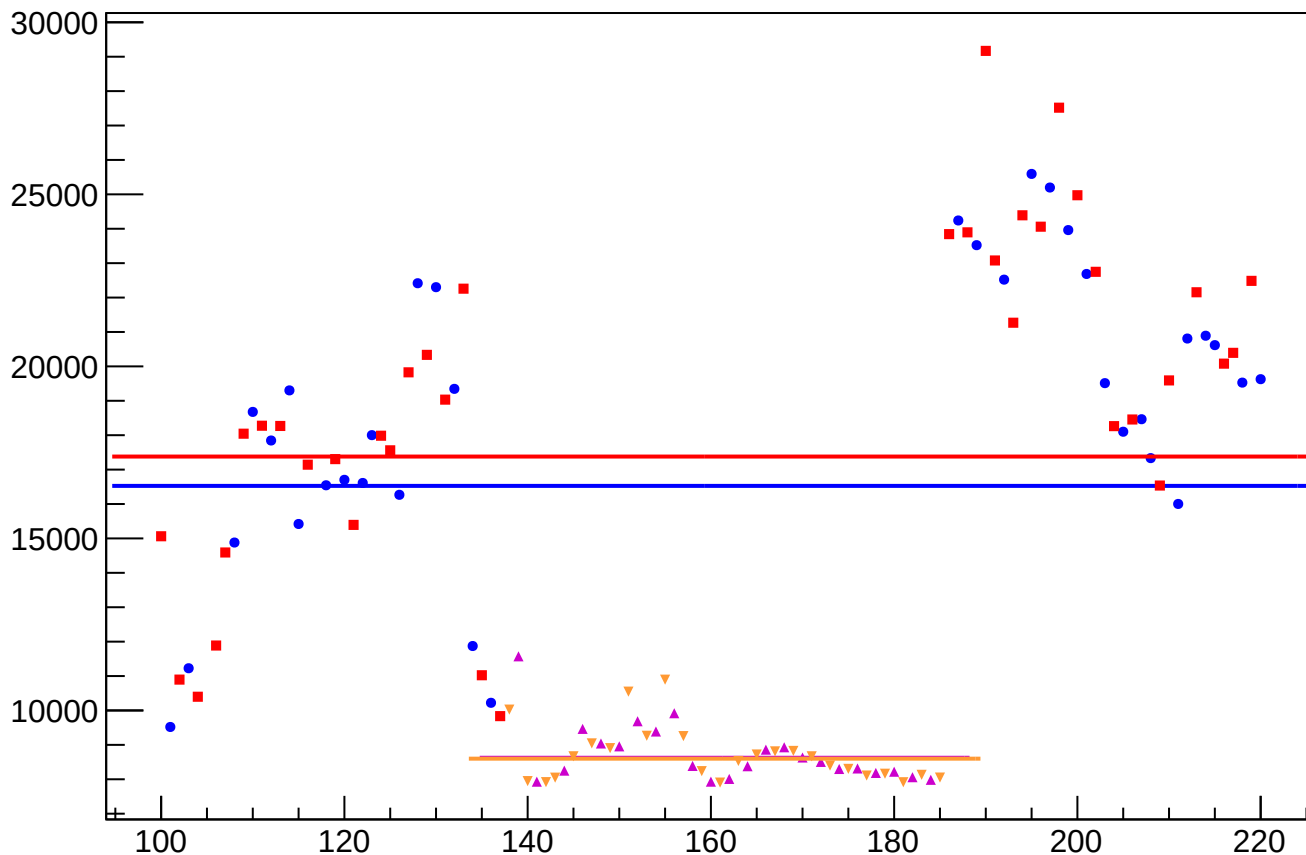
Right: -0.075 $\pm$ 2.849 χ^2/NDF : 136.7/70

In: -3.724 $\pm$ 1.837 χ^2/NDF : 93.8/56

Out: -4.075 $\pm$ 1.806 χ^2/NDF : 145.6/61

All: -3.903 $\pm$ 1.288 χ^2/NDF : 239.5/118

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16526.804 $\pm$ 2.805 χ^2 /NDF: 2994520.3/33

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 17379.358 $\pm$ 2.896 χ^2 /NDF: 2919265.7/36

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF: 237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

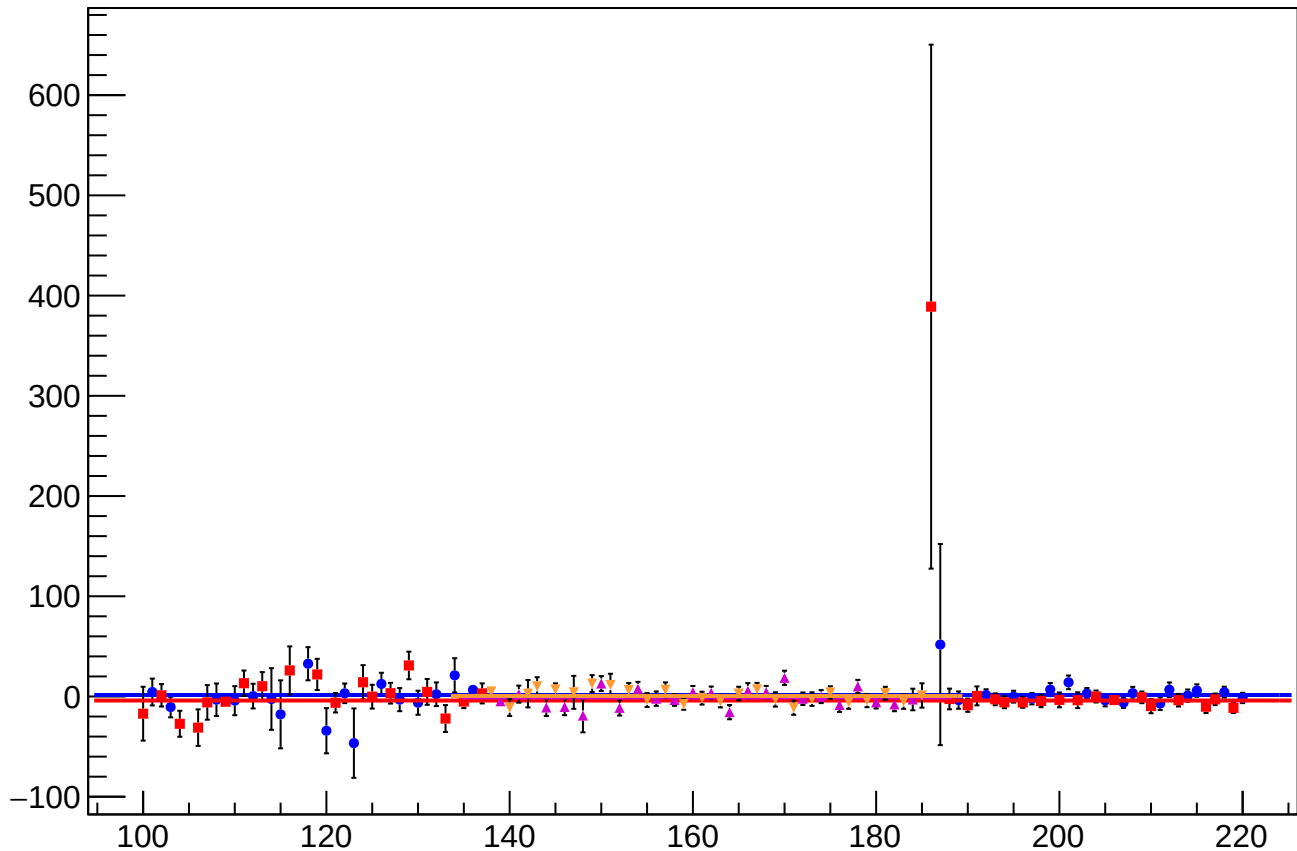
Right: 16939.519 $\pm$ 2.015 χ^2 /NDF: 5958508.7/70

In: 10319.907 $\pm$ 1.299 χ^2 /NDF: 9465492.0/56

Out: 10306.071 $\pm$ 1.277 χ^2 /NDF: 10575405.1/61

All: 10312.869 $\pm$ 0.911 χ^2 /NDF: 20040954.8/111

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.480 ± 1.325 $\chi^2/\text{NDF}: 25.8/33$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -4.014 ± 1.292 $\chi^2/\text{NDF}: 32.0/36$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

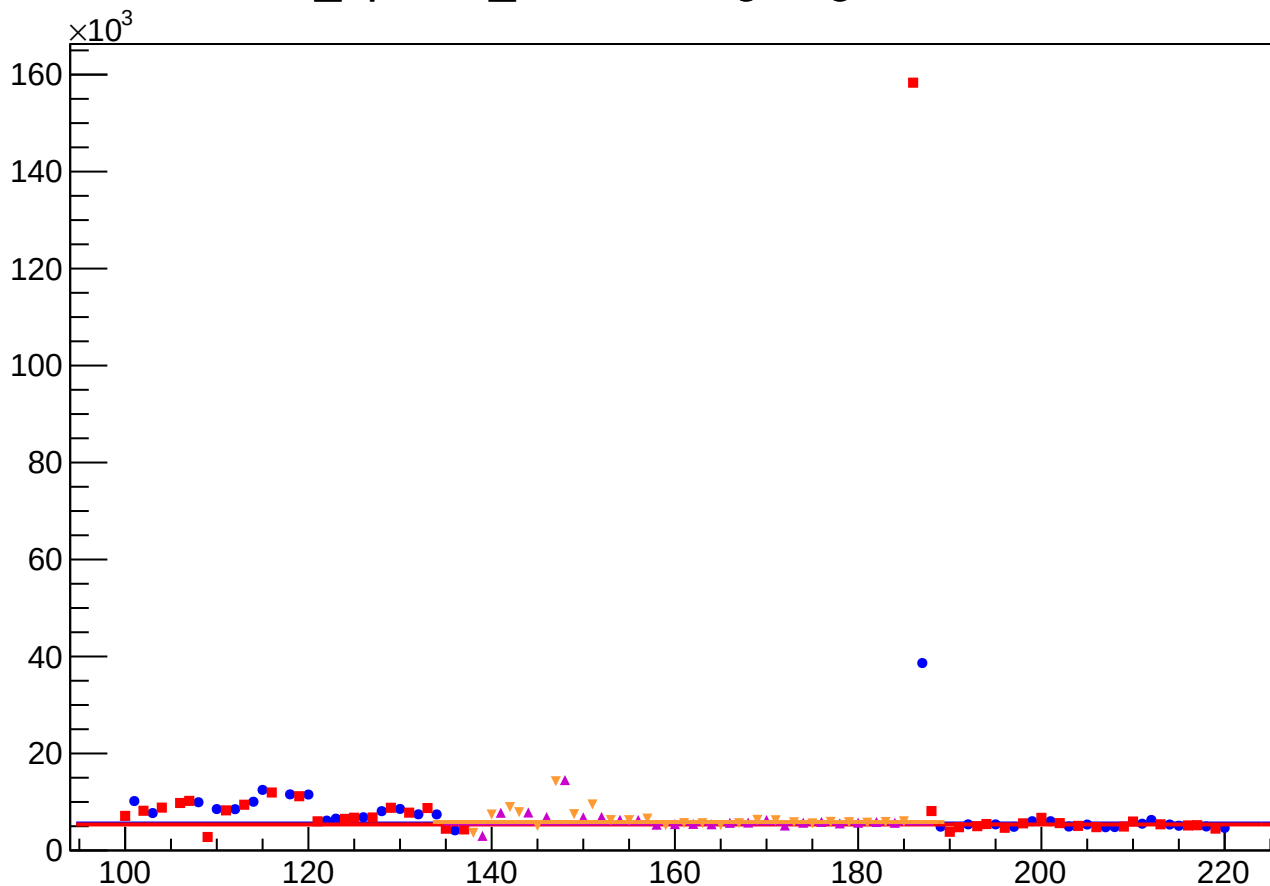
Right: -1.336 ± 0.925 $\chi^2/\text{NDF}: 66.6/70$

In: 0.281 ± 0.961 $\chi^2/\text{NDF}: 60.1/56$

Out: -1.953 ± 0.955 $\chi^2/\text{NDF}: 57.1/61$

All: -0.843 ± 0.677 $\chi^2/\text{NDF}: 119.9/118$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5559.123+/-0.937 χ^2/NDF : 2234489.7/33

Left Out: 5860.605+/-1.002 χ^2/NDF : 1690049.2/24

Right Out: 5359.746+/-0.914 χ^2/NDF : 3529901.3/36

Left In: 5571.330+/-0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698+/-0.703 χ^2/NDF : 3895130.2/47

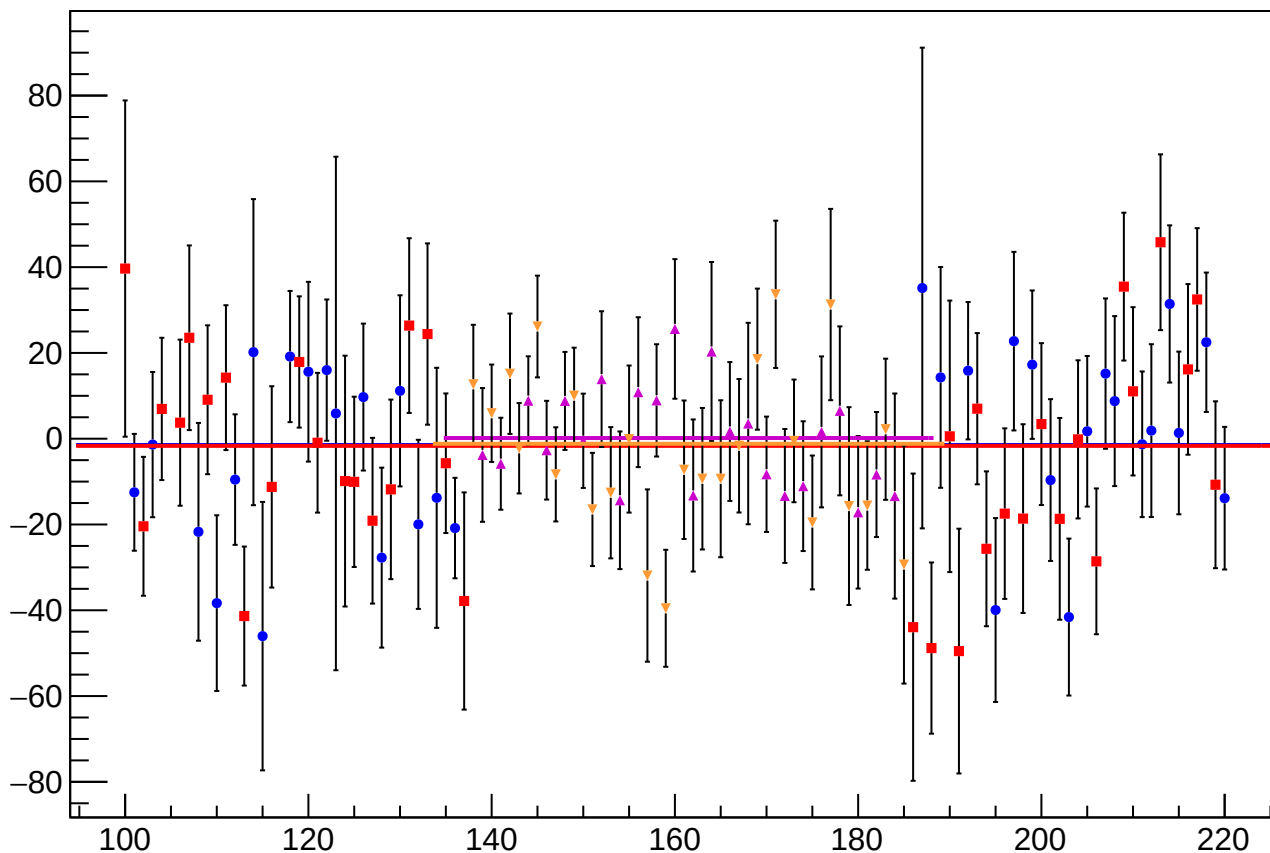
Right: 5456.948+/-0.654 χ^2/NDF : 5787608.8/70

In: 5564.909+/-0.679 χ^2/NDF : 4397358.5/56

Out: 5587.014+/-0.675 χ^2/NDF : 5356323.3/61

All: 5576.029+/-0.479 χ^2/NDF : 9754214.3/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.473 ± 3.234 χ^2/NDF : 36.8/33

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -1.667 ± 3.217 χ^2/NDF : 51.9/36

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

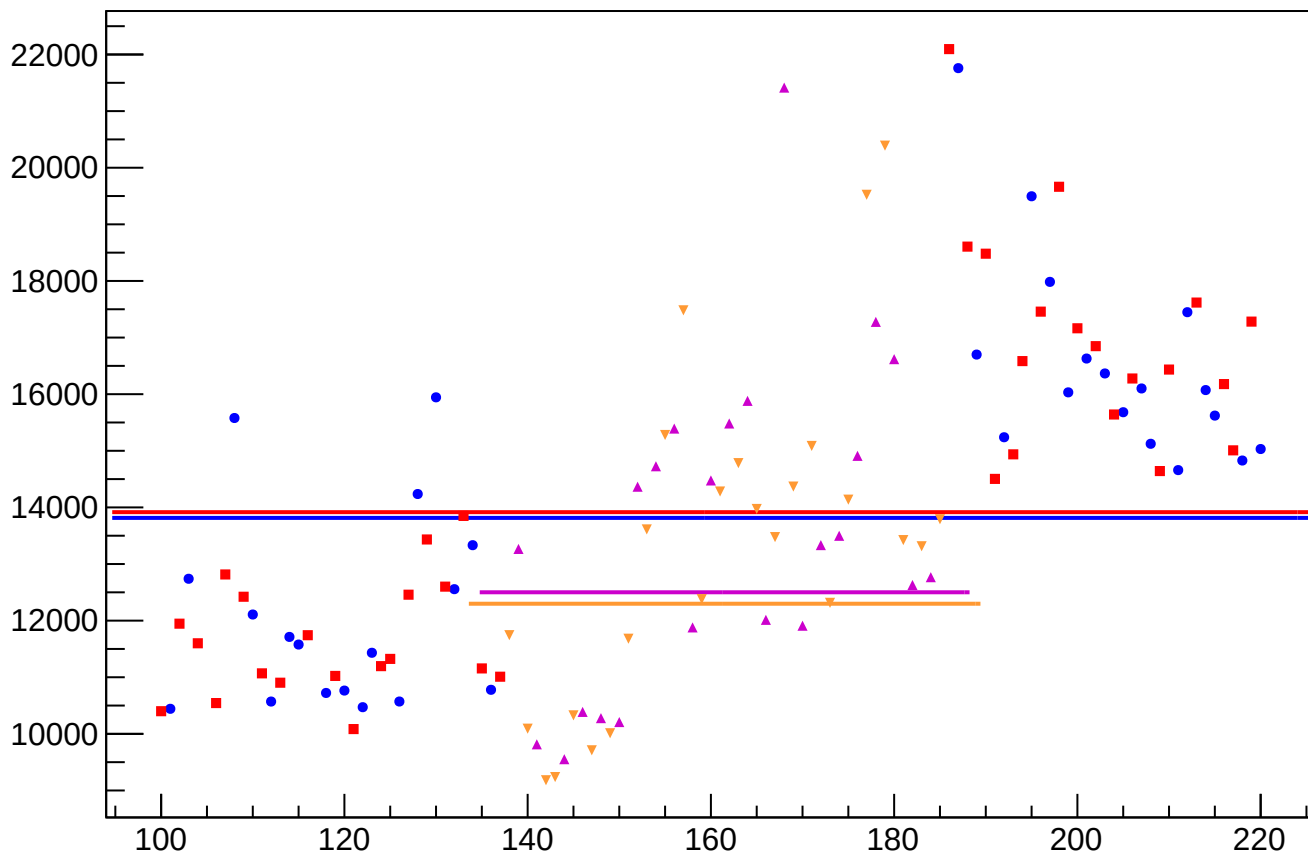
Right: -1.570 ± 2.281 χ^2/NDF : 88.7/70

In: -0.613 ± 2.222 χ^2/NDF : 48.5/56

Out: -1.403 ± 2.170 χ^2/NDF : 85.6/61

All: -1.017 ± 1.552 χ^2/NDF : 134.1/118

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13814.822+/-2.287

χ^2/NDF : 1326456.3/33

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 13865.649+/-1.613 χ^2/NDF : 2824332.4/70

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 13121.050+/-1.571 χ^2/NDF : 2858654.8/56

Right Out: 13915.941+/-2.275

χ^2/NDF : 1496893.4/36

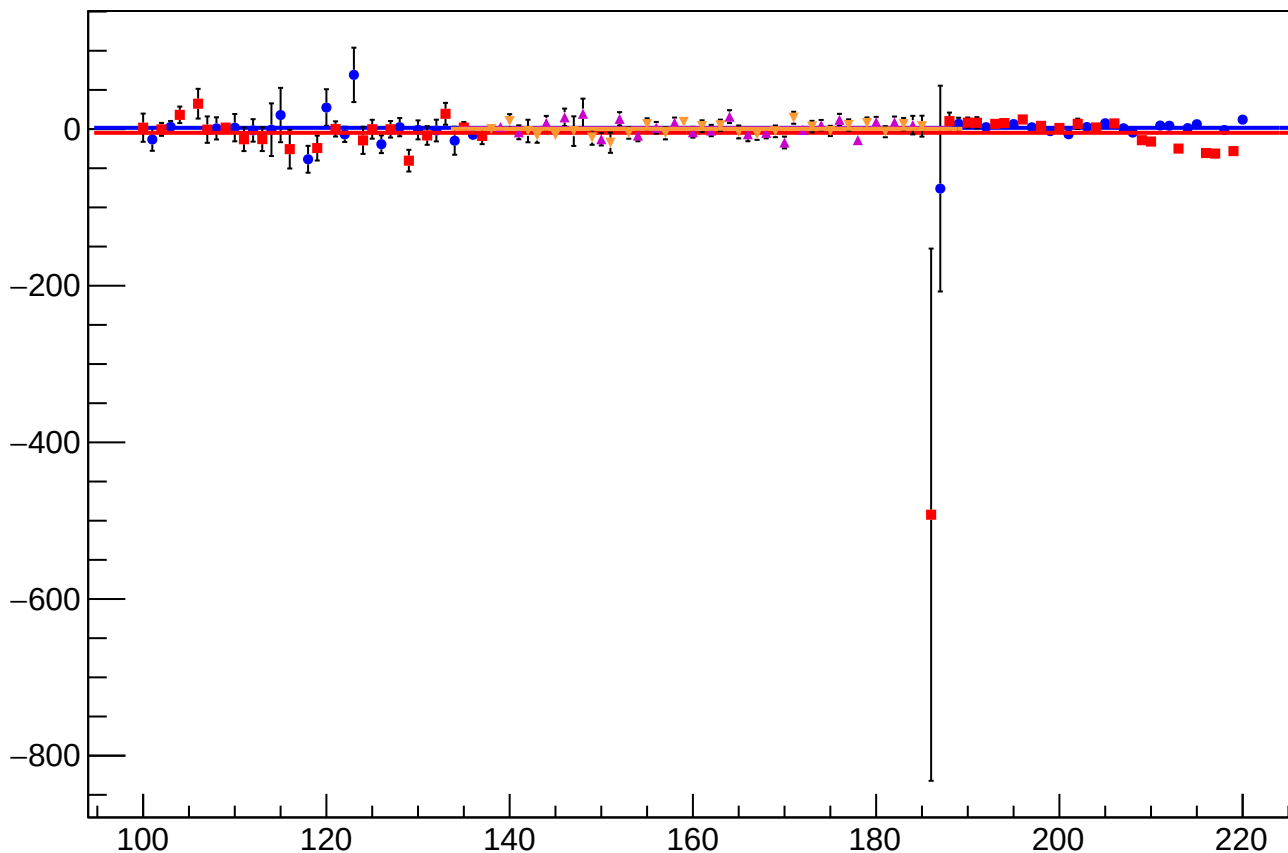
Out: 13034.352+/-1.534 χ^2/NDF : 3278434.0/61

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 13076.670+/-1.098 χ^2/NDF : 6138647.3/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.602 ± 1.097 χ^2/NDF : 35.8/33

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: -4.768 ± 1.108 χ^2/NDF : 179.7/36

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

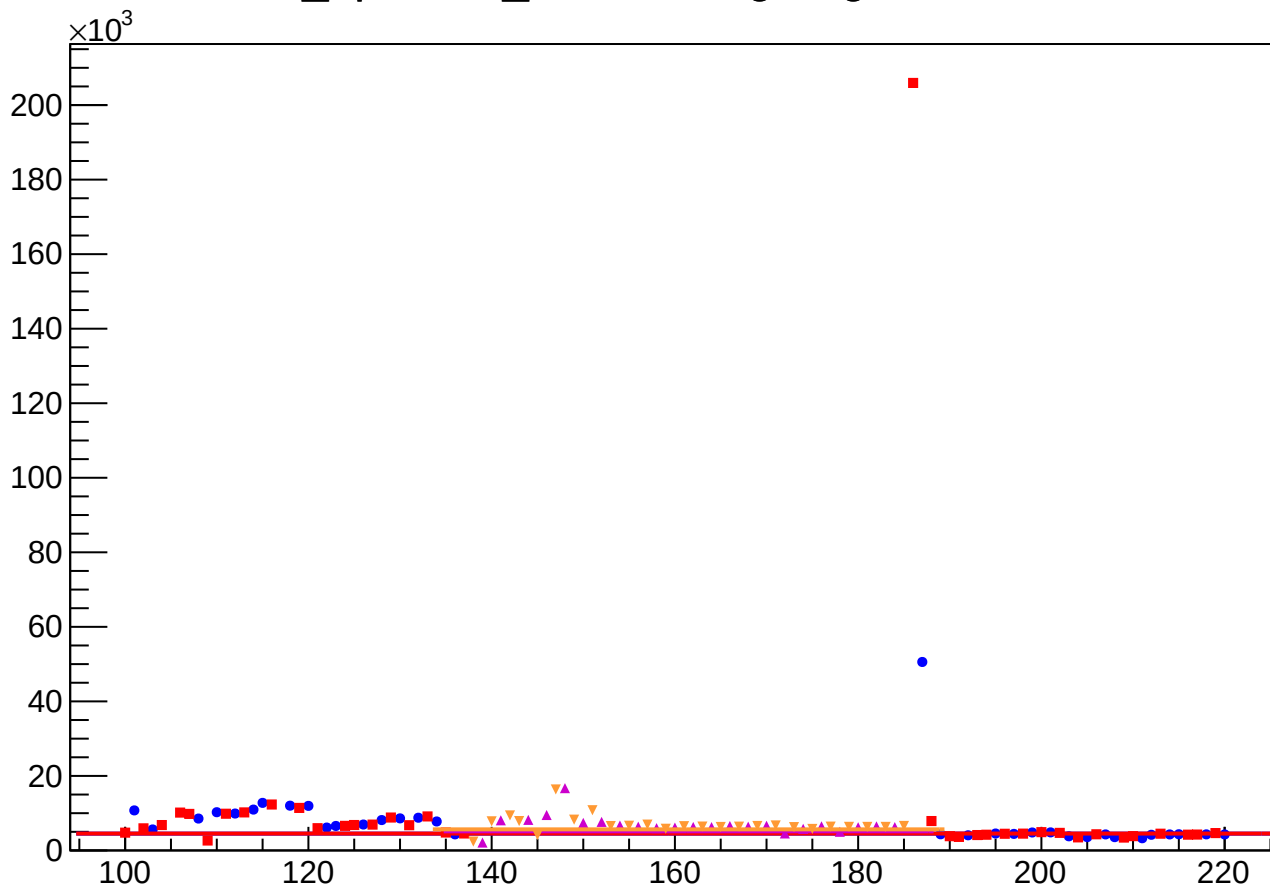
Right: -1.552 ± 0.780 χ^2/NDF : 232.2/70

In: 1.431 ± 0.857 χ^2/NDF : 69.5/56

Out: -2.852 ± 0.877 χ^2/NDF : 206.8/61

All: -0.661 ± 0.613 χ^2/NDF : 288.5/118

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4512.942 ± 0.776 $\chi^2/\text{NDF}: 3452699.1/33$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 4531.239 ± 0.784 $\chi^2/\text{NDF}: 3974046.1/36$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

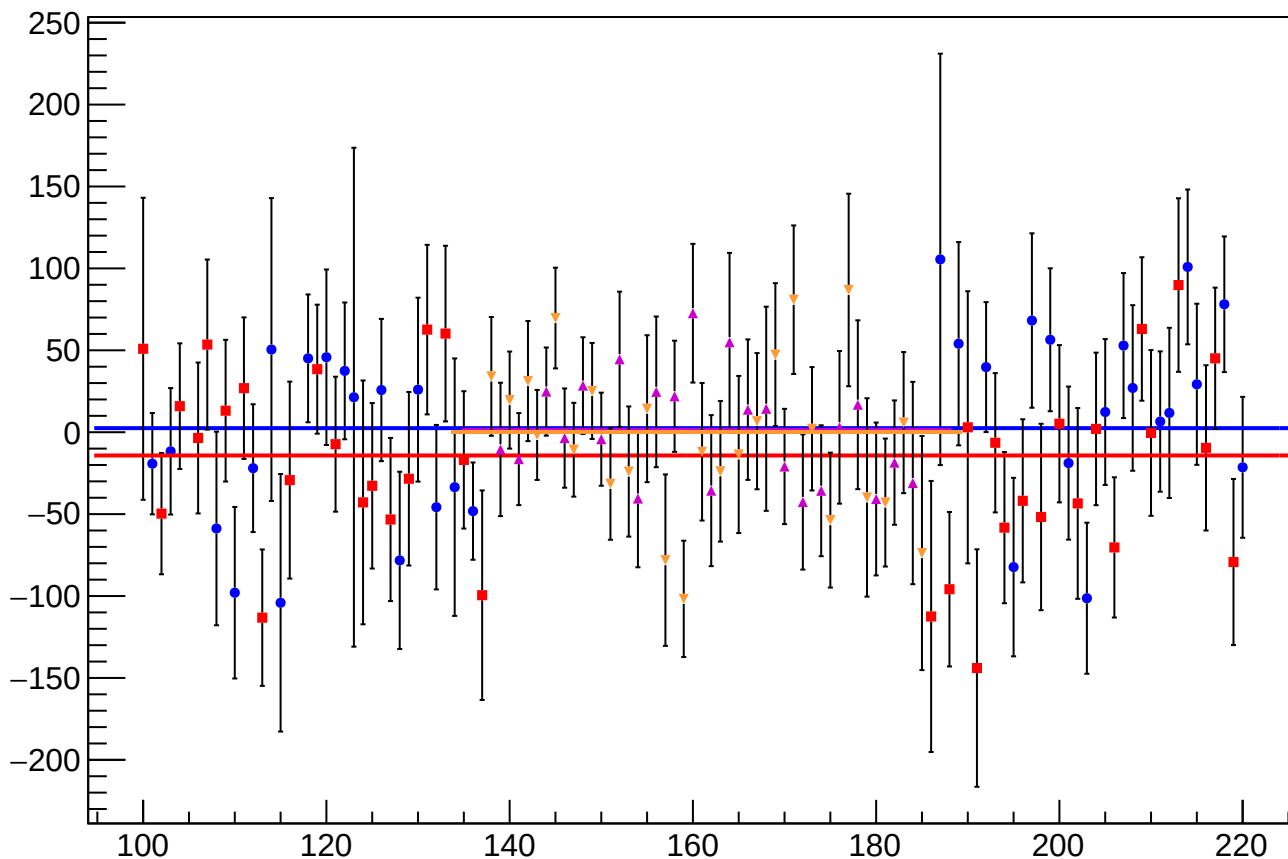
Right: 4522.001 ± 0.551 $\chi^2/\text{NDF}: 7427020.5/70$

In: 4756.848 ± 0.606 $\chi^2/\text{NDF}: 9201420.1/56$

Out: 4953.271 ± 0.620 $\chi^2/\text{NDF}: 8878146.8/61$

All: 4852.808 ± 0.433 $\chi^2/\text{NDF}: 18130916.3/131$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 2.487 ± 8.106 $\chi^2/\text{NDF}: 40.1/33$

Left Out: 0.143 ± 7.683 $\chi^2/\text{NDF}: 31.3/24$

Right Out: -14.193 ± 8.062 $\chi^2/\text{NDF}: 41.7/36$

Left In: 1.374 ± 7.990 $\chi^2/\text{NDF}: 13.3/22$

Left: 0.734 ± 5.538 $\chi^2/\text{NDF}: 44.6/47$

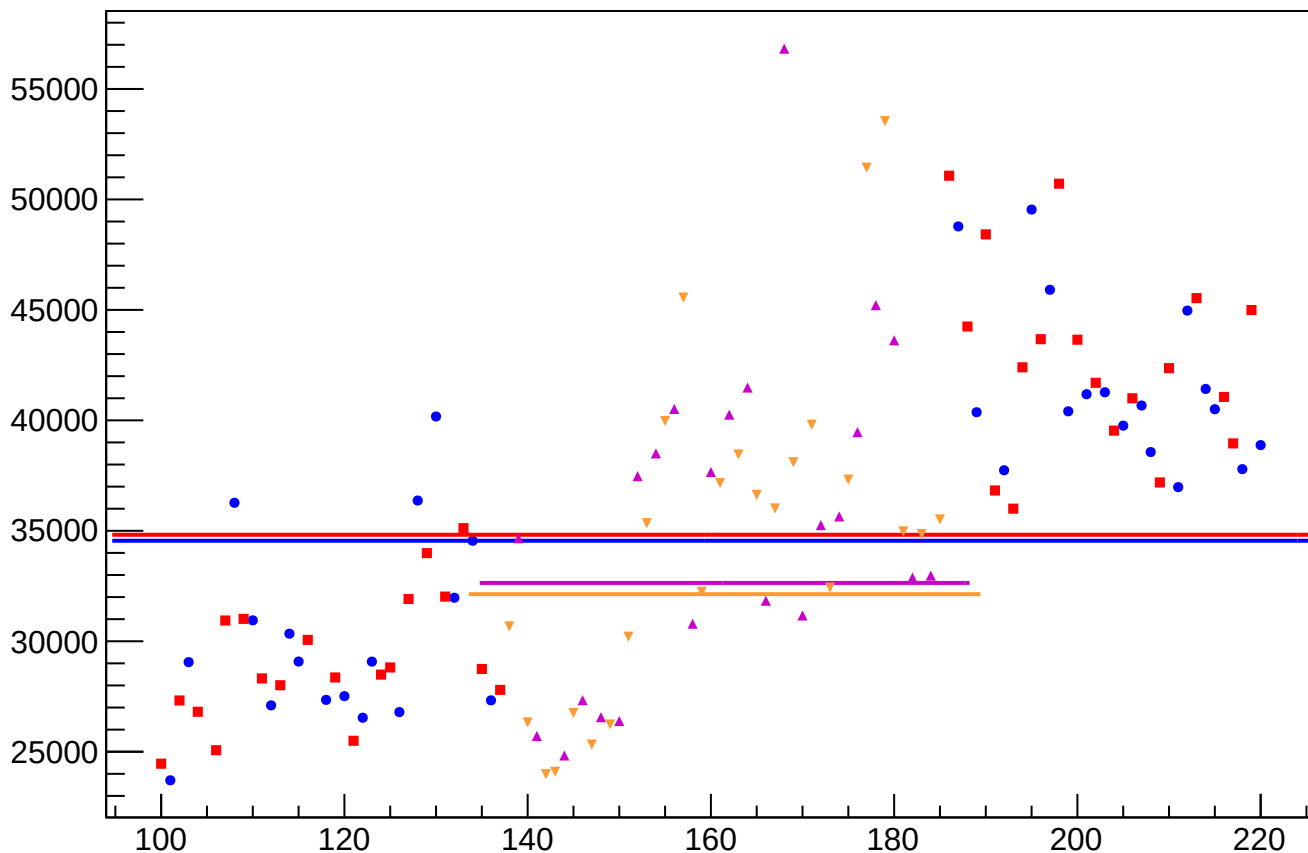
Right: -5.899 ± 5.716 $\chi^2/\text{NDF}: 83.9/70$

In: 1.923 ± 5.691 $\chi^2/\text{NDF}: 53.4/56$

Out: -6.681 ± 5.562 $\chi^2/\text{NDF}: 74.6/61$

All: -2.477 ± 3.978 $\chi^2/\text{NDF}: 129.2/118$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34550.367+/-5.732

χ^2/NDF : 1459888.0/33

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

Right: 34686.714+/-4.042 χ^2/NDF : 3068235.9/70

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

In: 33582.001+/-4.024 χ^2/NDF : 2918320.1/56

Right Out: 34821.569+/-5.701

χ^2/NDF : 1607222.4/36

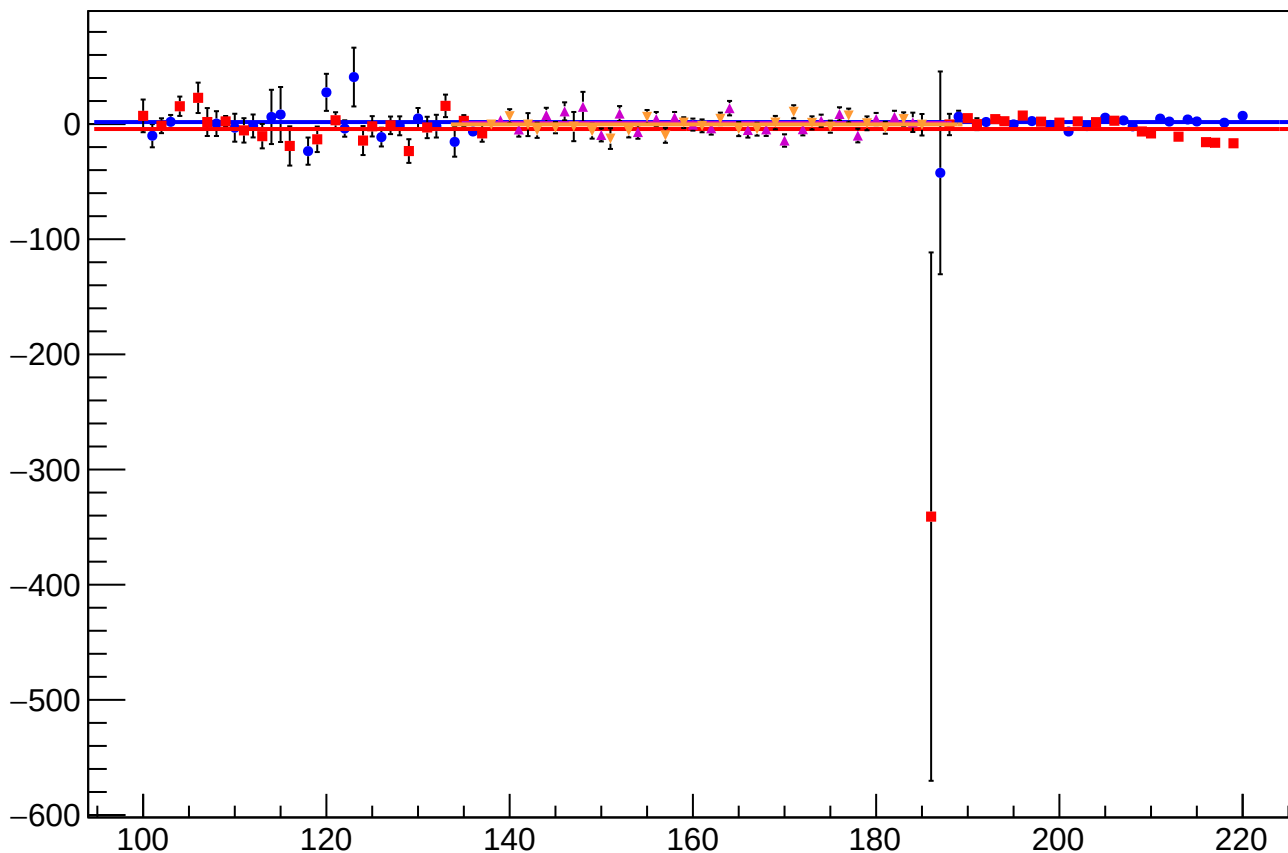
Out: 33412.318+/-3.933 χ^2/NDF : 3263924.1/61

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 33495.220+/-2.813 χ^2/NDF : 6183153.6/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.727 ± 0.624 $\chi^2/\text{NDF}: 46.7/33$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -4.315 ± 0.655 $\chi^2/\text{NDF}: 170.2/36$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

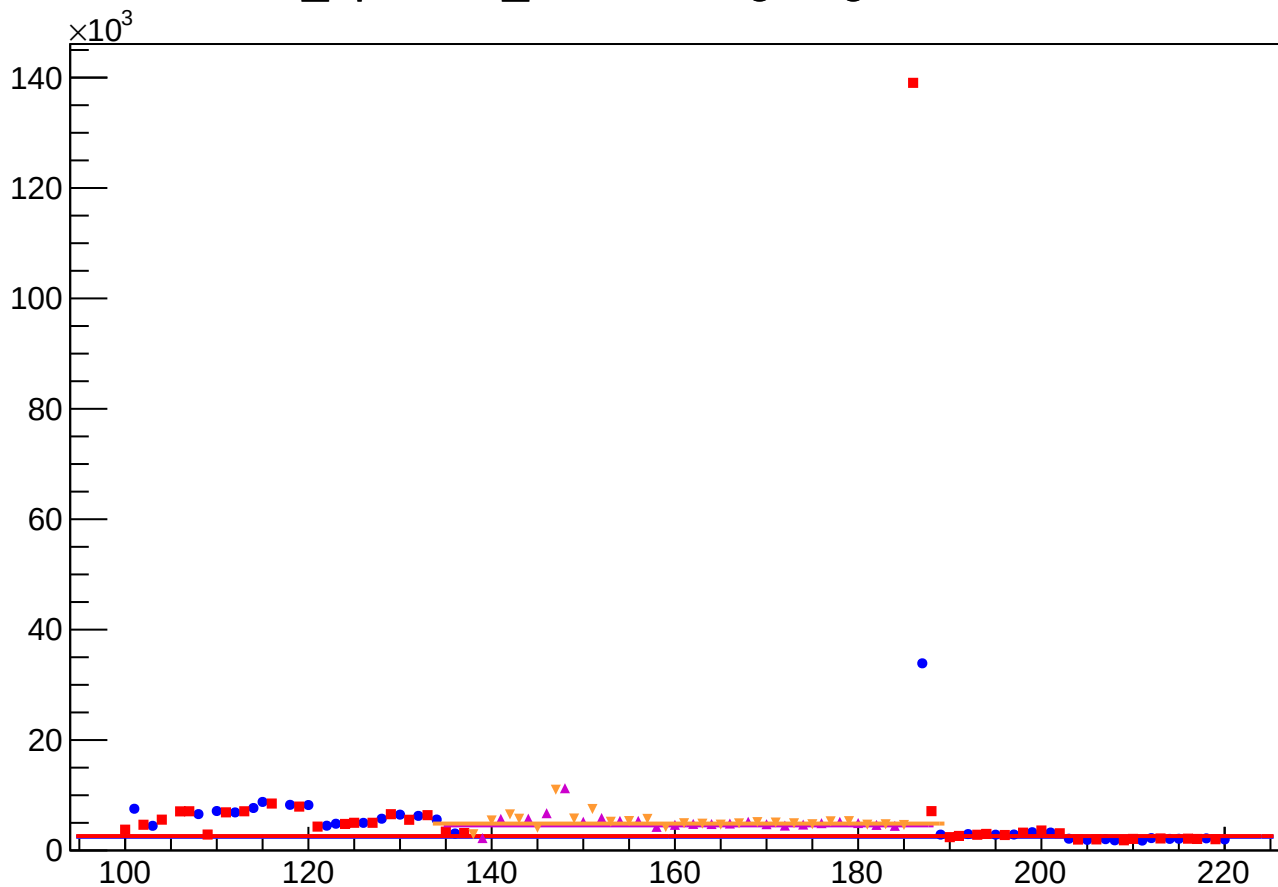
Right: -1.143 ± 0.452 $\chi^2/\text{NDF}: 261.5/70$

In: 1.539 ± 0.547 $\chi^2/\text{NDF}: 83.3/56$

Out: -3.361 ± 0.572 $\chi^2/\text{NDF}: 196.8/61$

All: -0.802 ± 0.395 $\chi^2/\text{NDF}: 318.3/118$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2481.163 $\pm$ 0.441 χ^2/NDF : 5647701.9/33

Left Out: 4868.567 $\pm$ 0.829 χ^2/NDF : 1511151.0/24

Right Out: 2606.576 $\pm$ 0.464 χ^2/NDF : 6206584.5/36

Left In: 4544.337 $\pm$ 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 $\pm$ 0.578 χ^2/NDF : 4223993.0/47

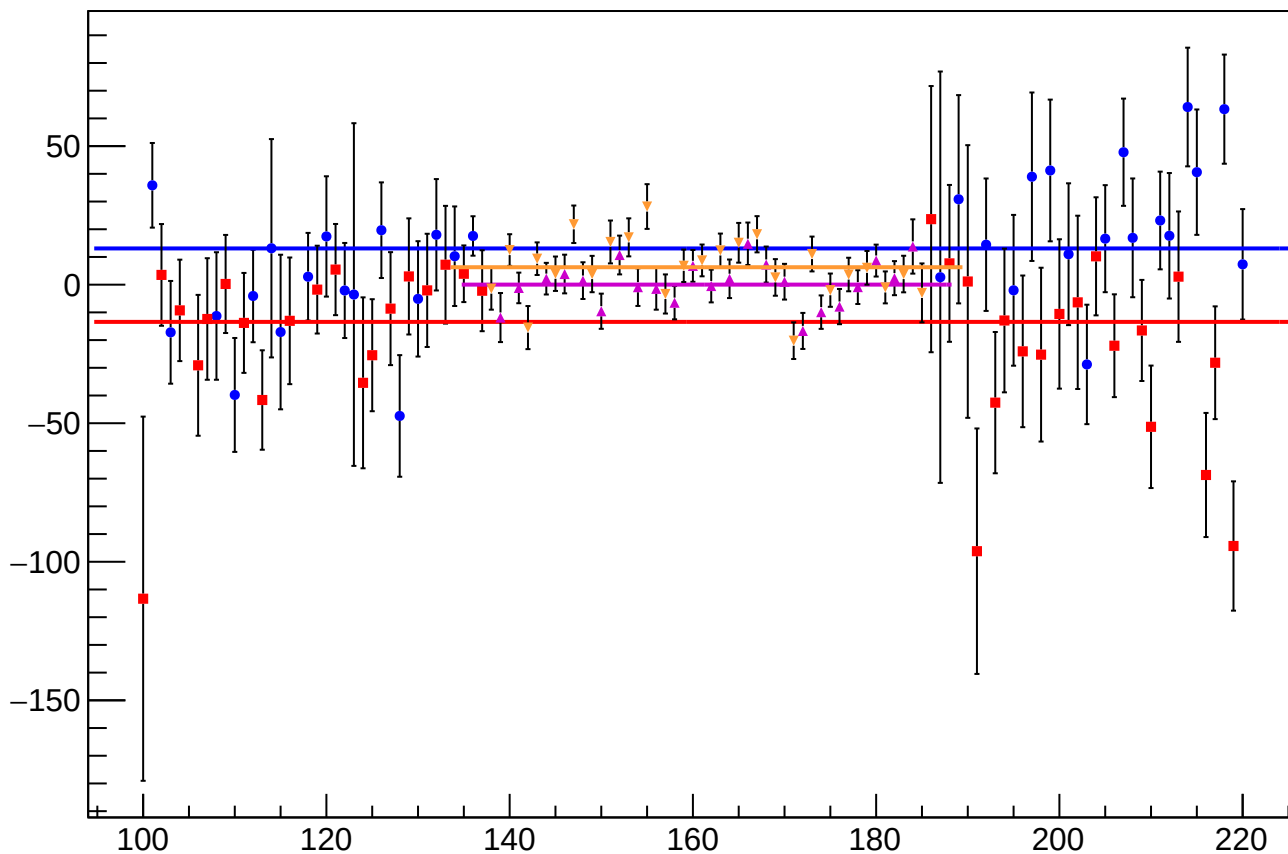
Right: 2540.738 $\pm$ 0.319 χ^2/NDF : 11892719.7/70

In: 2954.864 $\pm$ 0.387 χ^2/NDF : 13309436.2/56

Out: 3145.776 $\pm$ 0.405 χ^2/NDF : 13394959.4/61

All: 3046.098 $\pm$ 0.280 χ^2/NDF : 26820696.5/131

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.076 $\pm$ 3.296 χ^2/NDF : 48.8/33

Left Out: 6.296 $\pm$ 1.310 χ^2/NDF : 56.5/24

Right Out: -13.430 $\pm$ 3.442 χ^2/NDF : 44.7/36

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

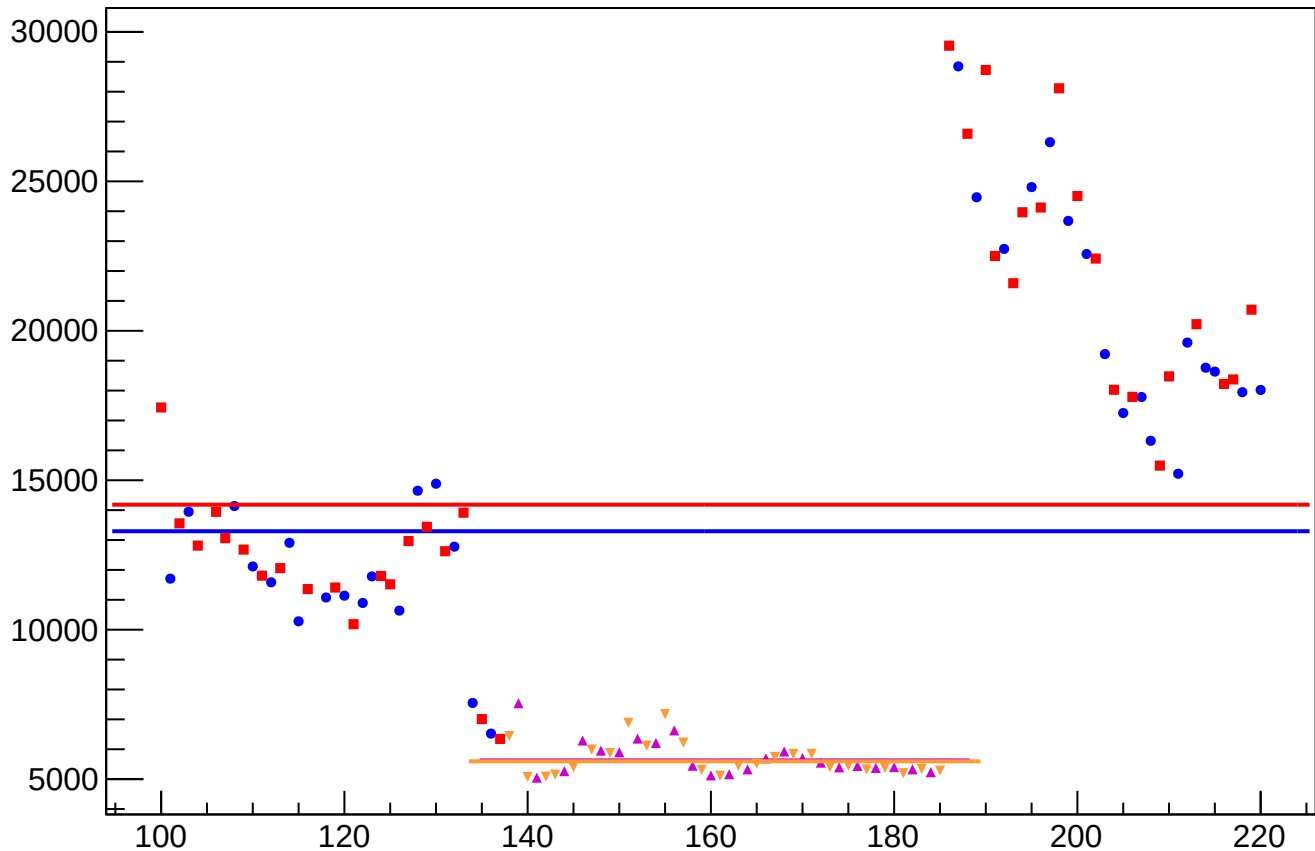
Right: 0.395 $\pm$ 2.381 χ^2/NDF : 124.5/70

In: 1.903 $\pm$ 1.252 χ^2/NDF : 92.2/56

Out: 3.799 $\pm$ 1.224 χ^2/NDF : 129.9/61

All: 2.872 $\pm$ 0.875 χ^2/NDF : 223.3/118

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13294.458 $\pm$ 2.331 χ^2/NDF : 5183227.5/33

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF : 283998.1/24

Right Out: 14182.719 $\pm$ 2.434 χ^2/NDF : 4982562.7/36

Left In: 5627.283 $\pm$ 0.957 χ^2/NDF : 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2/NDF : 563855.6/47

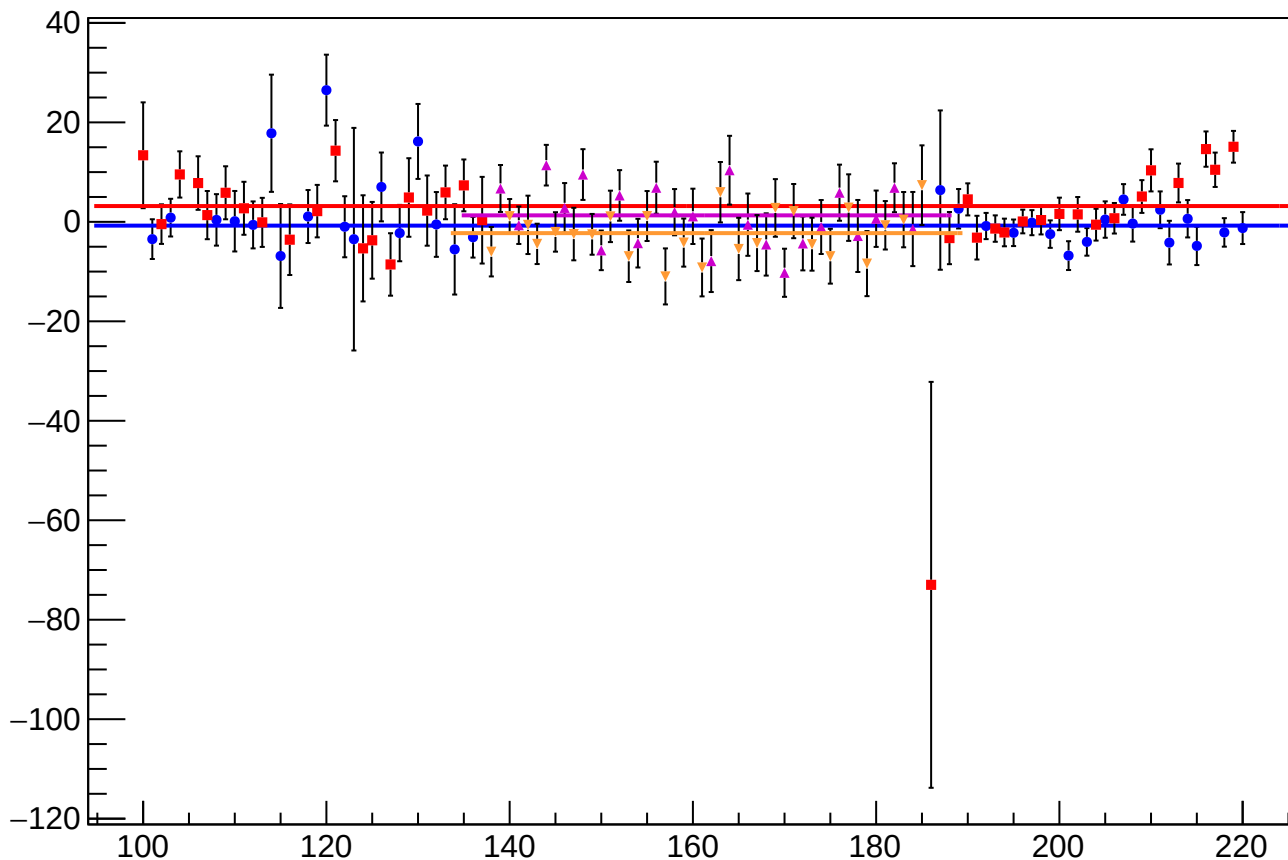
Right: 13719.442 $\pm$ 1.683 χ^2/NDF : 10235271.8/70

In: 6732.853 $\pm$ 0.885 χ^2/NDF : 14722375.0/56

Out: 6683.188 $\pm$ 0.866 χ^2/NDF : 16139110.7/61

All: 6707.473 $\pm$ 0.619 χ^2/NDF : 30863094.7/131

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.760 ± 0.684 χ^2/NDF : 38.5/33

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 3.176 ± 0.679 χ^2/NDF : 67.8/36

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

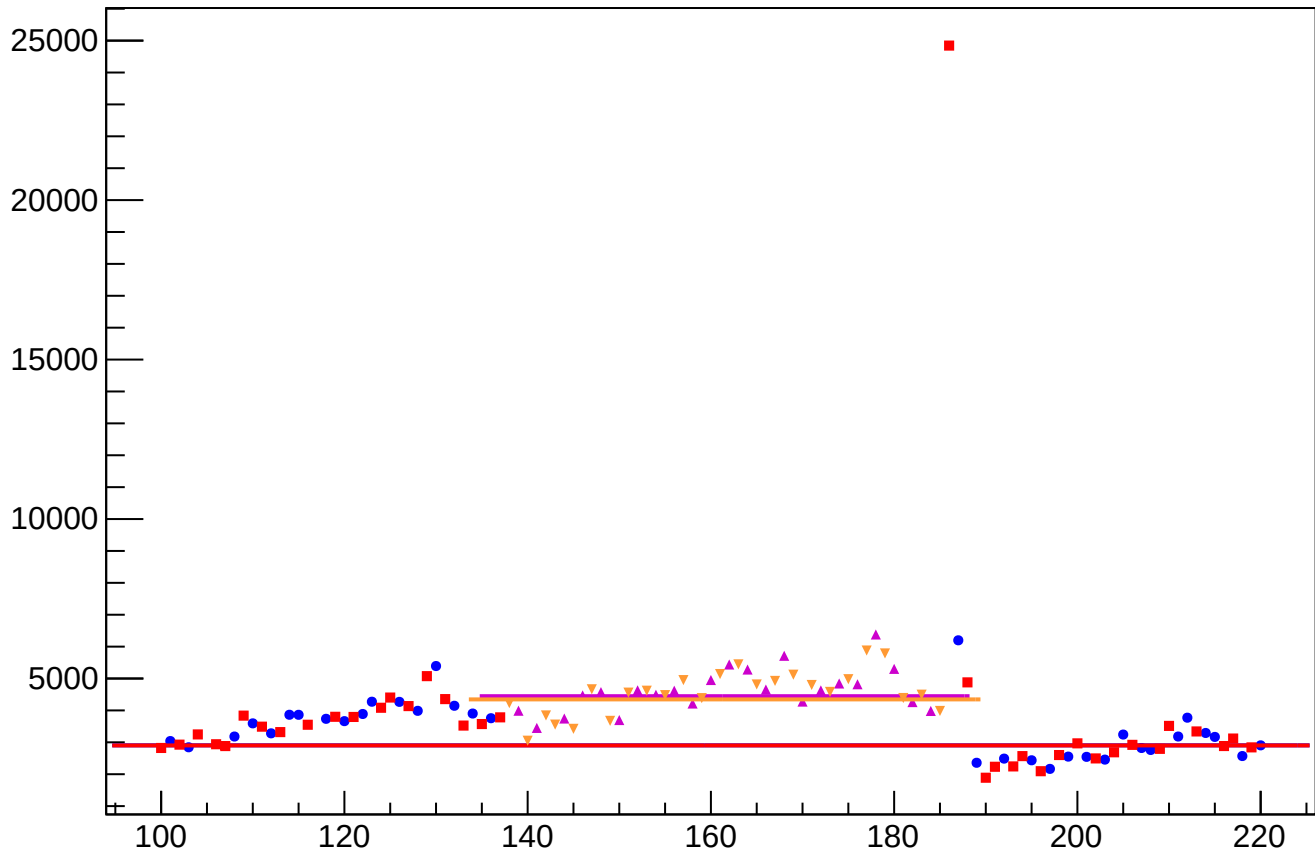
Right: 1.223 ± 0.482 χ^2/NDF : 123.0/70

In: -0.166 ± 0.578 χ^2/NDF : 71.9/56

Out: 1.525 ± 0.567 χ^2/NDF : 102.6/61

All: 0.695 ± 0.405 χ^2/NDF : 178.9/118

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2905.305+/-0.484 χ^2/NDF : 1448908.9/33

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2902.163+/-0.480 χ^2/NDF : 2347149.3/36

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

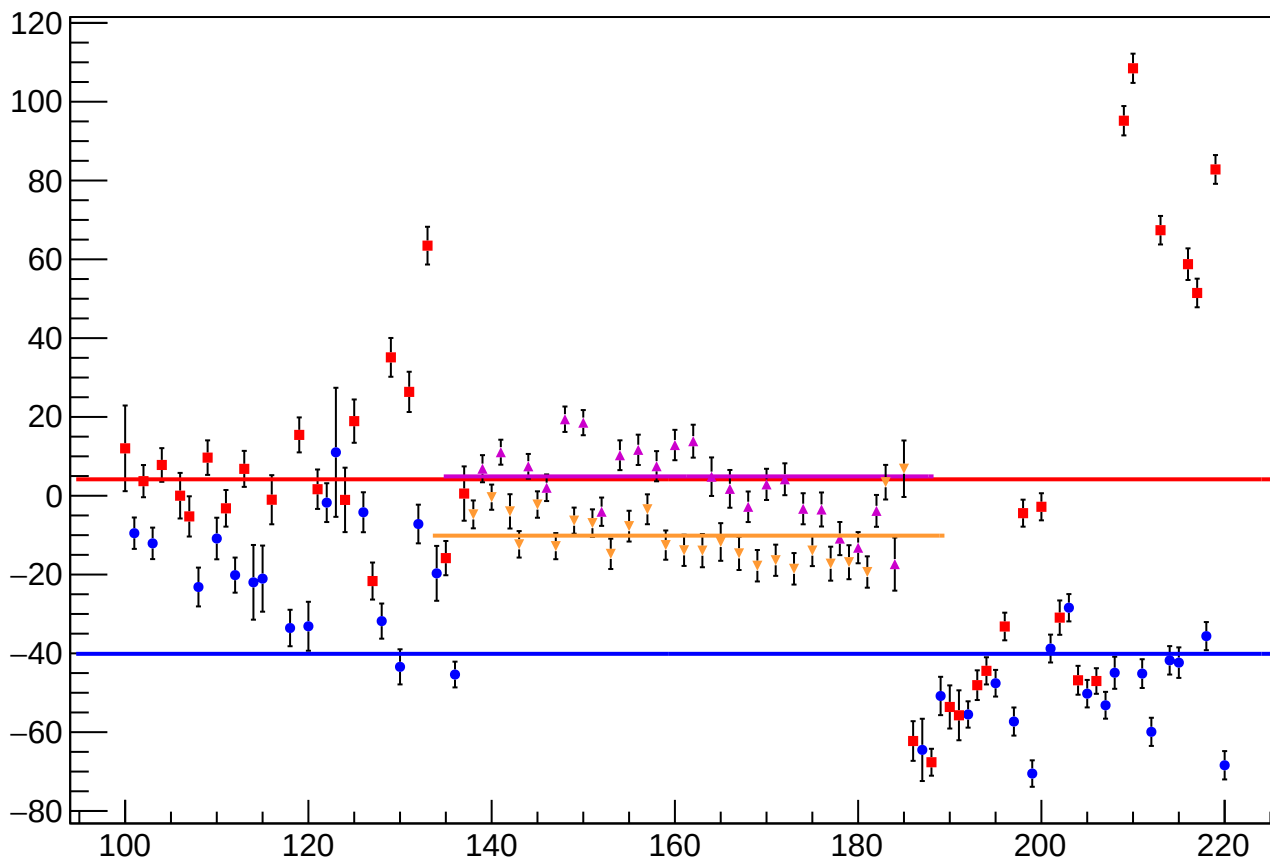
Right: 2903.722+/-0.341 χ^2/NDF : 3796079.4/70

In: 3348.590+/-0.408 χ^2/NDF : 5067544.8/56

Out: 3339.867+/-0.401 χ^2/NDF : 6086522.4/61

All: 3344.146+/-0.286 χ^2/NDF : 11154299.6/117

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.118 $\pm$ 0.718 χ^2/NDF : 642.2/33

Left Out: -10.125 $\pm$ 0.775 χ^2/NDF : 67.9/24

Right Out: 4.170 $\pm$ 0.709 χ^2/NDF : 4637.8/36

Left In: 4.911 $\pm$ 0.797 χ^2/NDF : 127.9/22

Left: -2.814 $\pm$ 0.556 χ^2/NDF : 378.7/47

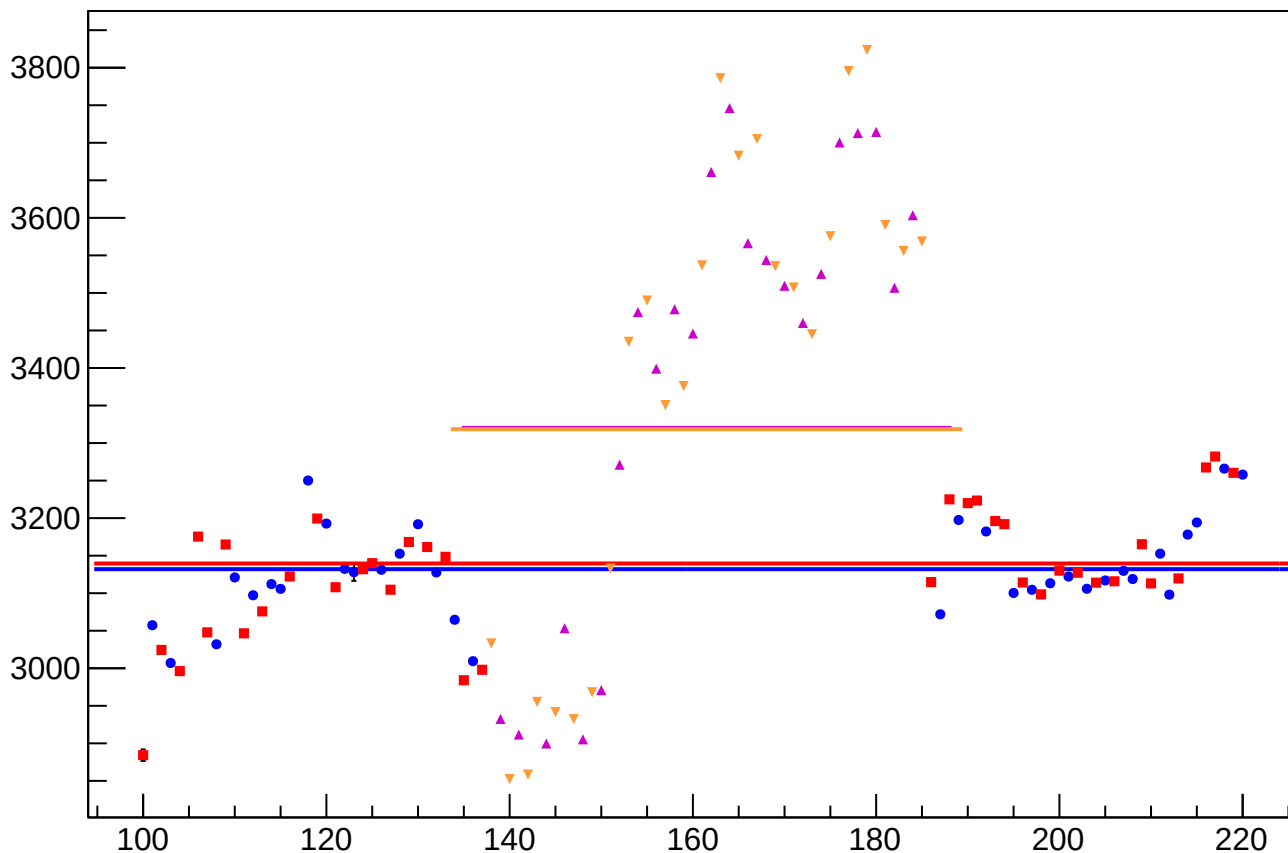
Right: -17.686 $\pm$ 0.505 χ^2/NDF : 7205.6/70

In: -19.940 $\pm$ 0.534 χ^2/NDF : 2531.3/56

Out: -2.339 $\pm$ 0.523 χ^2/NDF : 4890.8/61

All: -10.967 $\pm$ 0.374 χ^2/NDF : 7976.7/118

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3132.017 $\pm$ 0.508 χ^2 /NDF: 16367.4/33

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3139.560 $\pm$ 0.501 χ^2 /NDF: 22191.0/36

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

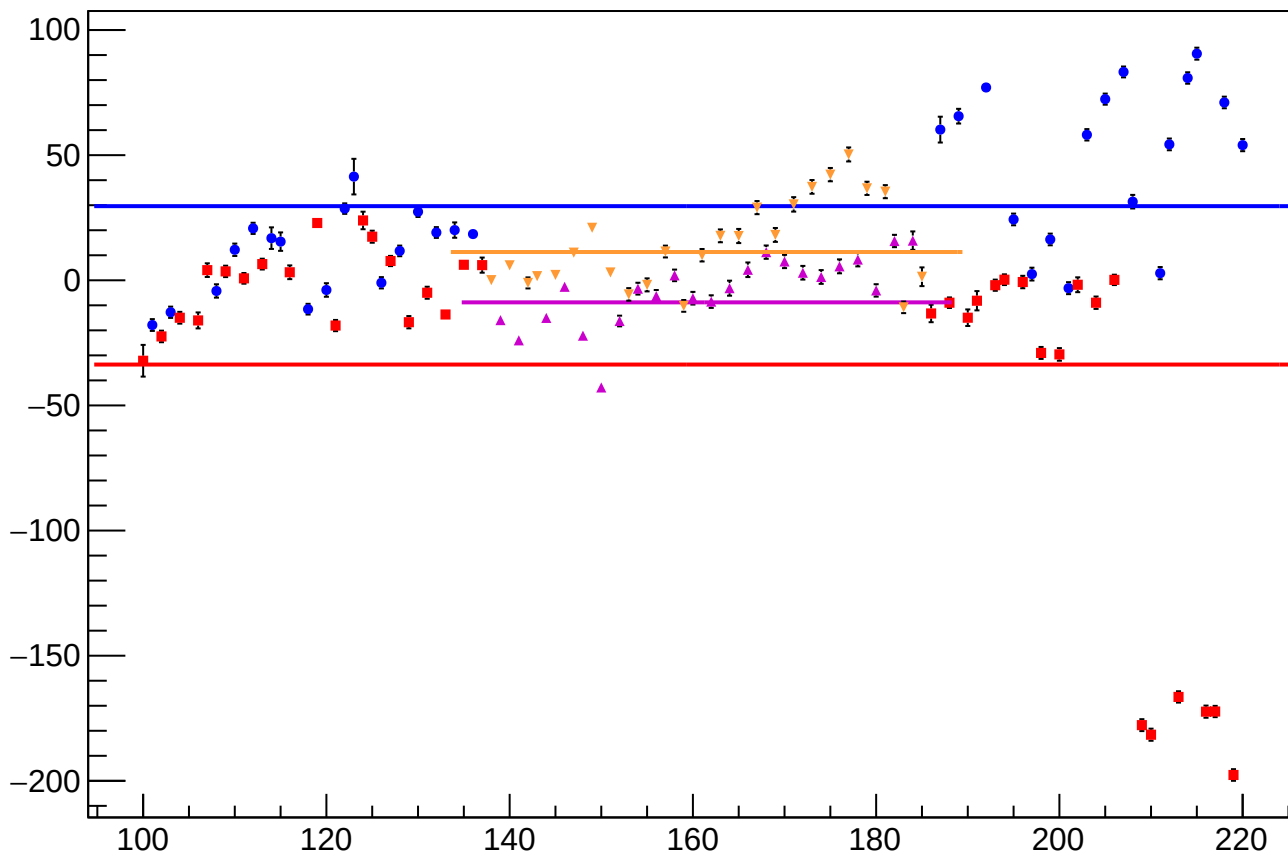
Right: 3135.838 $\pm$ 0.357 χ^2 /NDF: 38670.1/70

In: 3216.331 $\pm$ 0.377 χ^2 /NDF:365498.2/56

Out: 3221.035 $\pm$ 0.370 χ^2 /NDF:417896.2/61

All: 3218.729 $\pm$ 0.264 χ^2 /NDF: 783473.7/118

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 29.625+/-0.406 χ^2/NDF : 5905.6/33

Left Out: 11.305+/-0.454 χ^2/NDF :1144.3/24

Right Out: -33.667+/-0.398 χ^2/NDF : 28505.1/36

Left In: -8.815+/-0.475 χ^2/NDF :942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

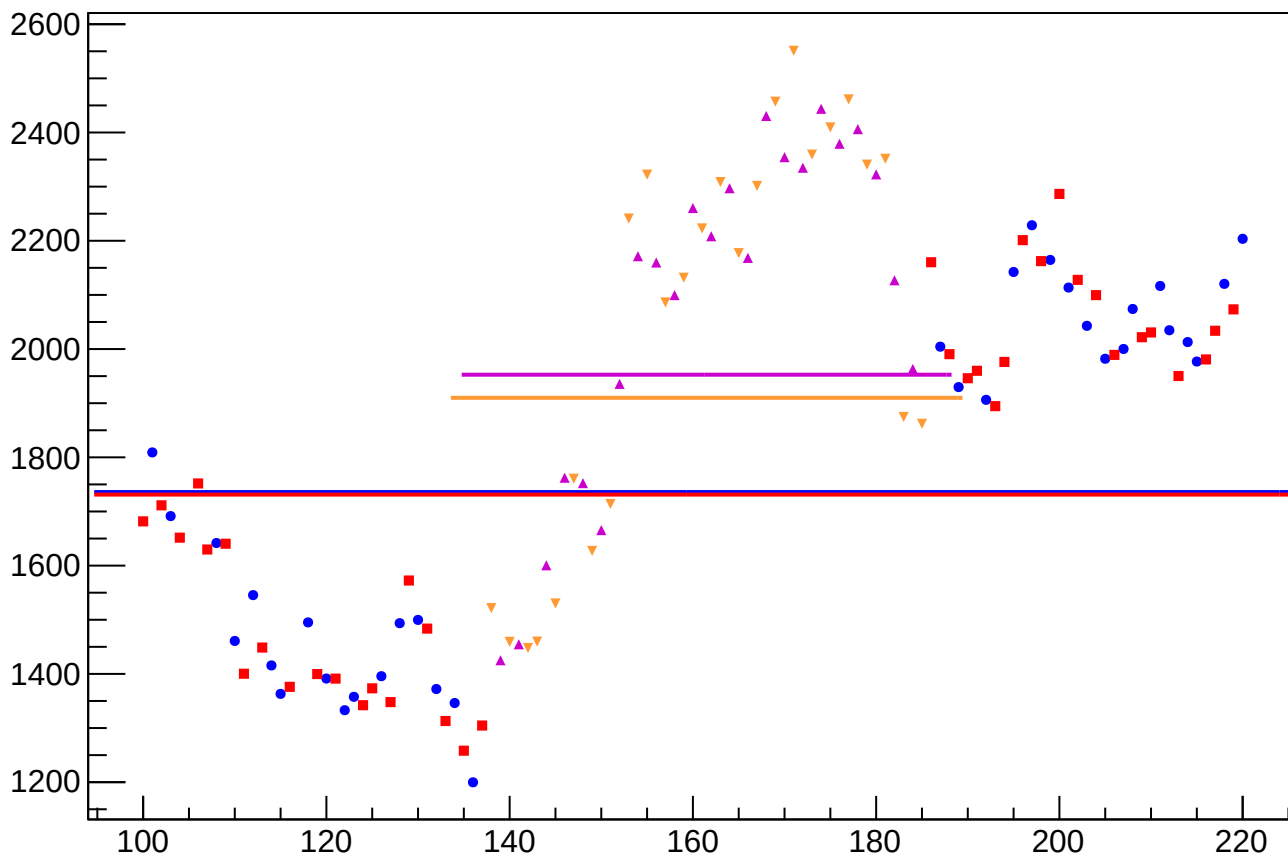
Right: -2.657+/-0.284 χ^2/NDF : 46794.1/70

In: 13.403+/-0.309 χ^2/NDF :10627.3/56

Out: -14.111+/-0.299 χ^2/NDF :35198.3/61

All: -0.785+/-0.215 χ^2/NDF : 49918.9/118

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1735.835 $\pm$ 0.287 χ^2 /NDF: 1394124.9/33

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1731.214 $\pm$ 0.282 χ^2 /NDF: 1292797.0/36

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

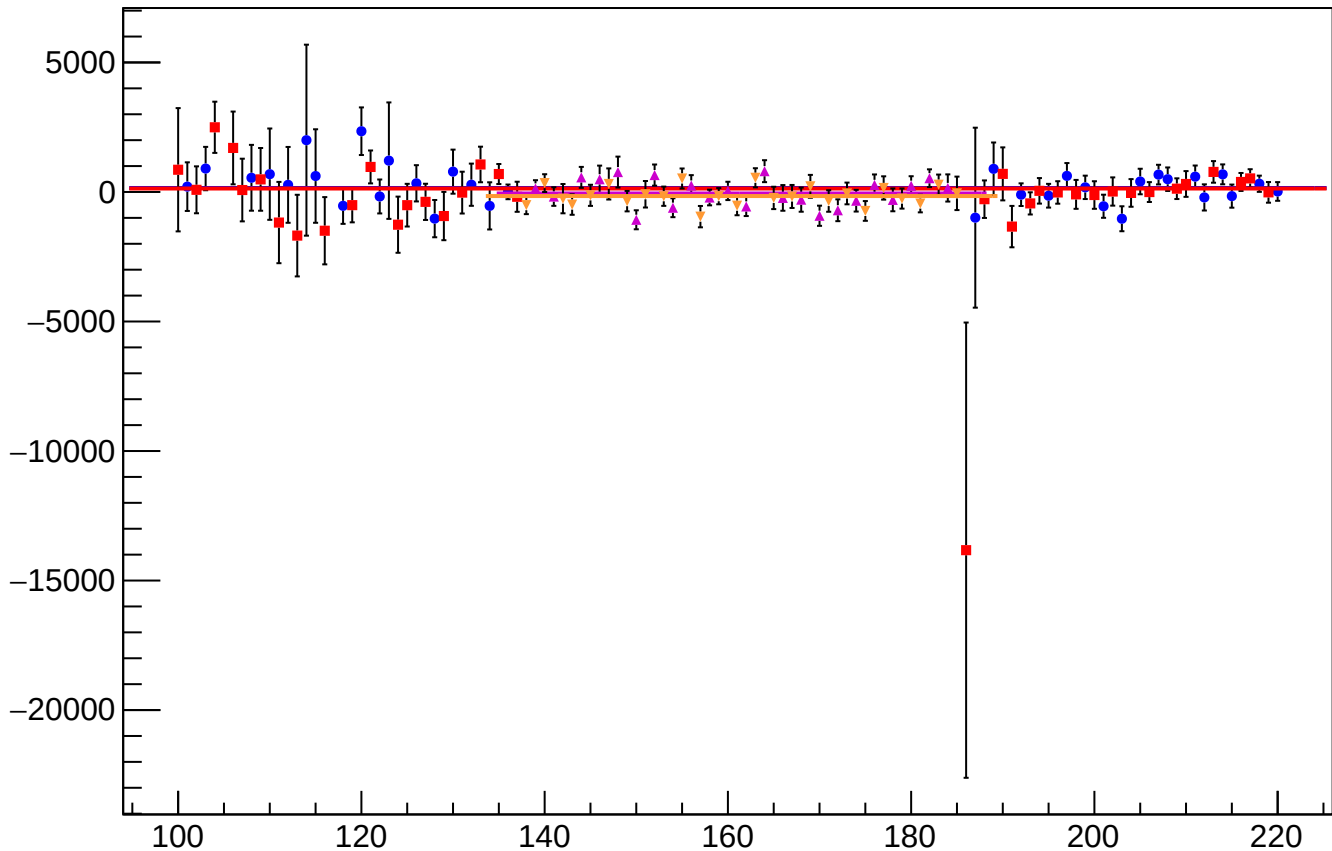
Right: 1733.478 $\pm$ 0.201 χ^2 /NDF: 2687054.0/70

In: 1827.329 $\pm$ 0.218 χ^2 /NDF:2699902.2/56

Out: 1808.944 $\pm$ 0.212 χ^2 /NDF:2867594.1/61

All: 1817.848 $\pm$ 0.152 χ^2 /NDF: 5571151.9/11

asym_sam1_mean vs Slug, Sign Corrected



Right In: 153.799 $\pm$ 93.259 χ^2/NDF : 30.5/33

Left Out: -157.242 $\pm$ 80.796 χ^2/NDF : 22.0/24

Right Out: 133.765 $\pm$ 96.368 χ^2/NDF : 35.3/36

Left In: -58.934 $\pm$ 82.584 χ^2/NDF : 38.5/22

Left: -109.164 $\pm$ 57.753 χ^2/NDF : 61.3/47

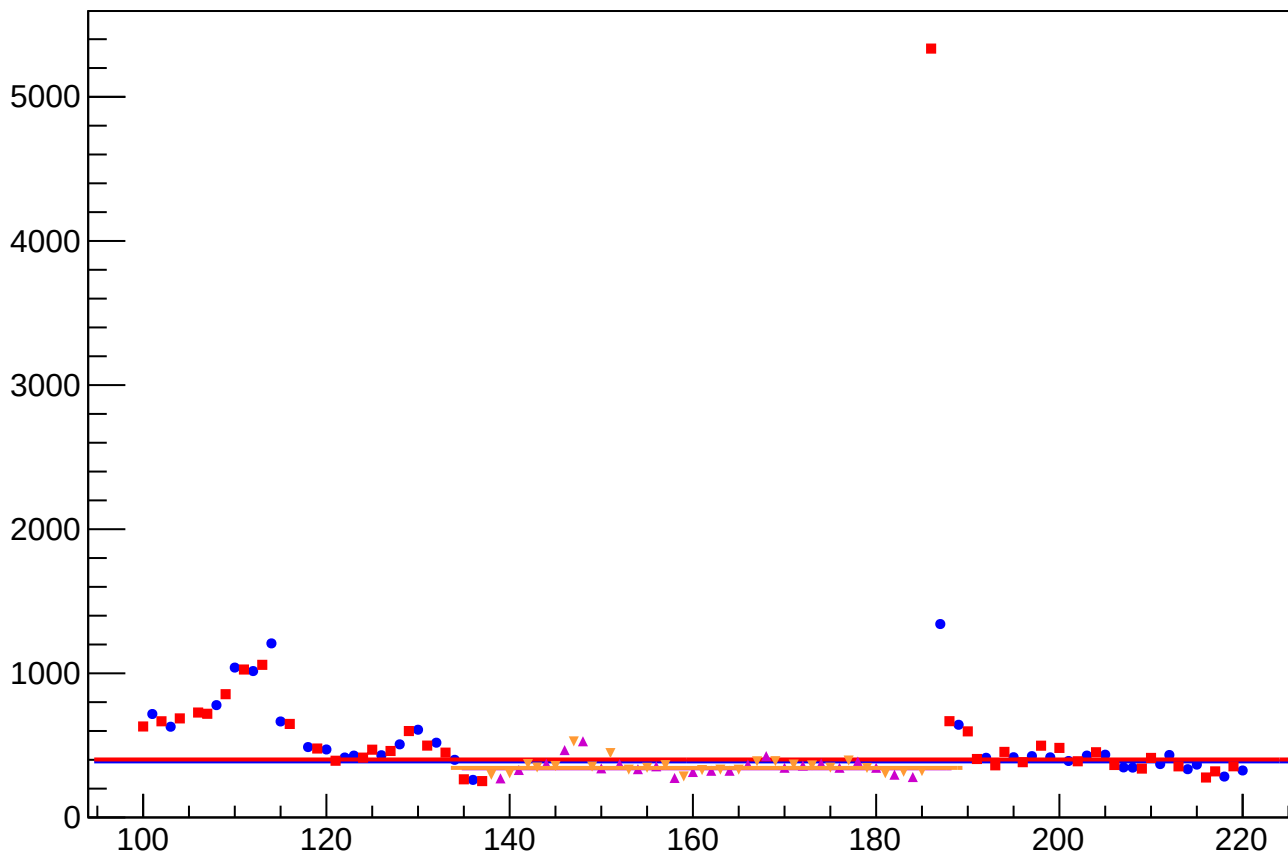
Right: 144.110 $\pm$ 67.016 χ^2/NDF : 65.9/70

In: 34.566 $\pm$ 61.827 χ^2/NDF : 72.0/56

Out: -37.121 $\pm$ 61.914 χ^2/NDF : 62.7/61

All: -1.227 $\pm$ 43.749 χ^2/NDF : 135.4/118

asym_sam1_rms vs Slug, Sign Corrected



Right In: 389.001 $\pm$ 0.066 χ^2 /NDF: 2836856.8/33

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 402.296 $\pm$ 0.068 χ^2 /NDF: 3820527.6/36

Left In: 340.876 $\pm$ 0.058 χ^2 /NDF: 724672.0/22

Left: 342.374 $\pm$ 0.041 χ^2 /NDF: 1265389.7/47

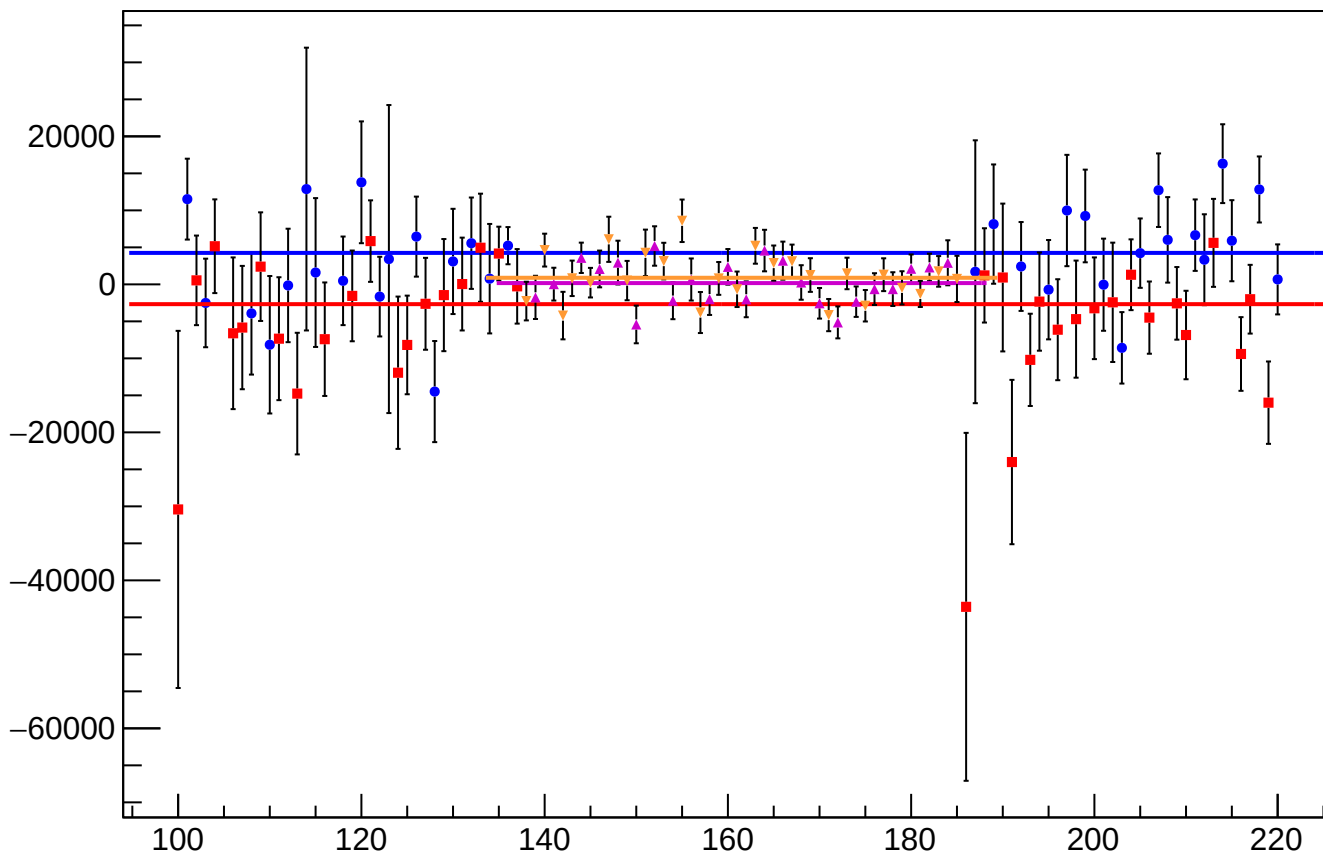
Right: 395.431 $\pm$ 0.047 χ^2 /NDF: 6677039.3/70

In: 362.028 $\pm$ 0.044 χ^2 /NDF: 3860034.2/56

Out: 367.950 $\pm$ 0.044 χ^2 /NDF: 4792587.3/61

All: 364.985 $\pm$ 0.031 χ^2 /NDF: 8661781.8/118

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4252.293 $\pm$ 997.867 χ^2 /NDF: 39.9/33

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2674.625 $\pm$ 1050.260 χ^2 /NDF: 35.6/36

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

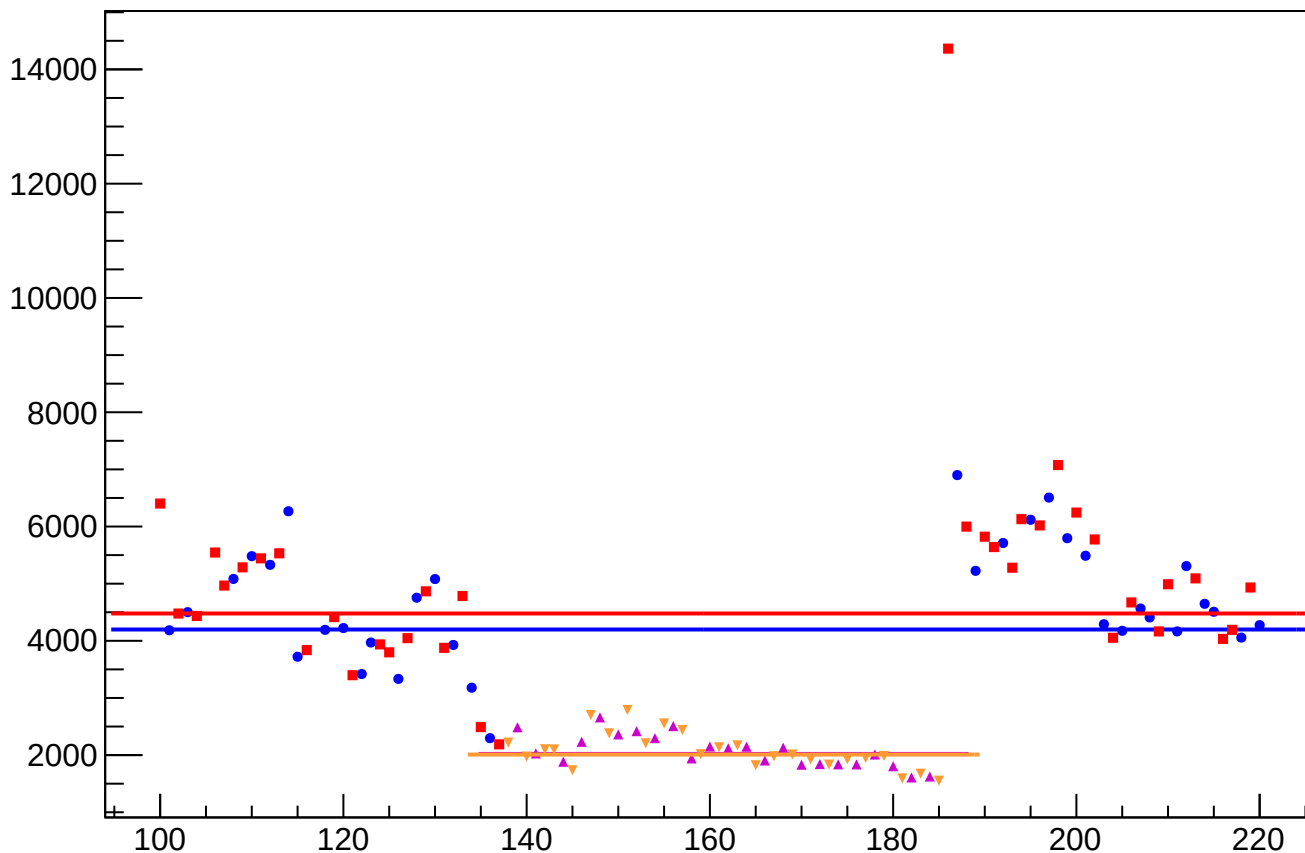
Right: 965.917 $\pm$ 723.412 χ^2 /NDF: 98.4/70

In: 960.003 $\pm$ 438.434 χ^2 /NDF:86.6/56

Out: 288.686 $\pm$ 431.479 χ^2 /NDF:83.1/61

All: 618.978 $\pm$ 307.531 χ^2 /NDF: 170.9/118

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4198.106 $\pm$ 0.706 χ^2 /NDF: 2339332.3/33

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4478.422 $\pm$ 0.743 χ^2 /NDF: 2577422.1/36

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

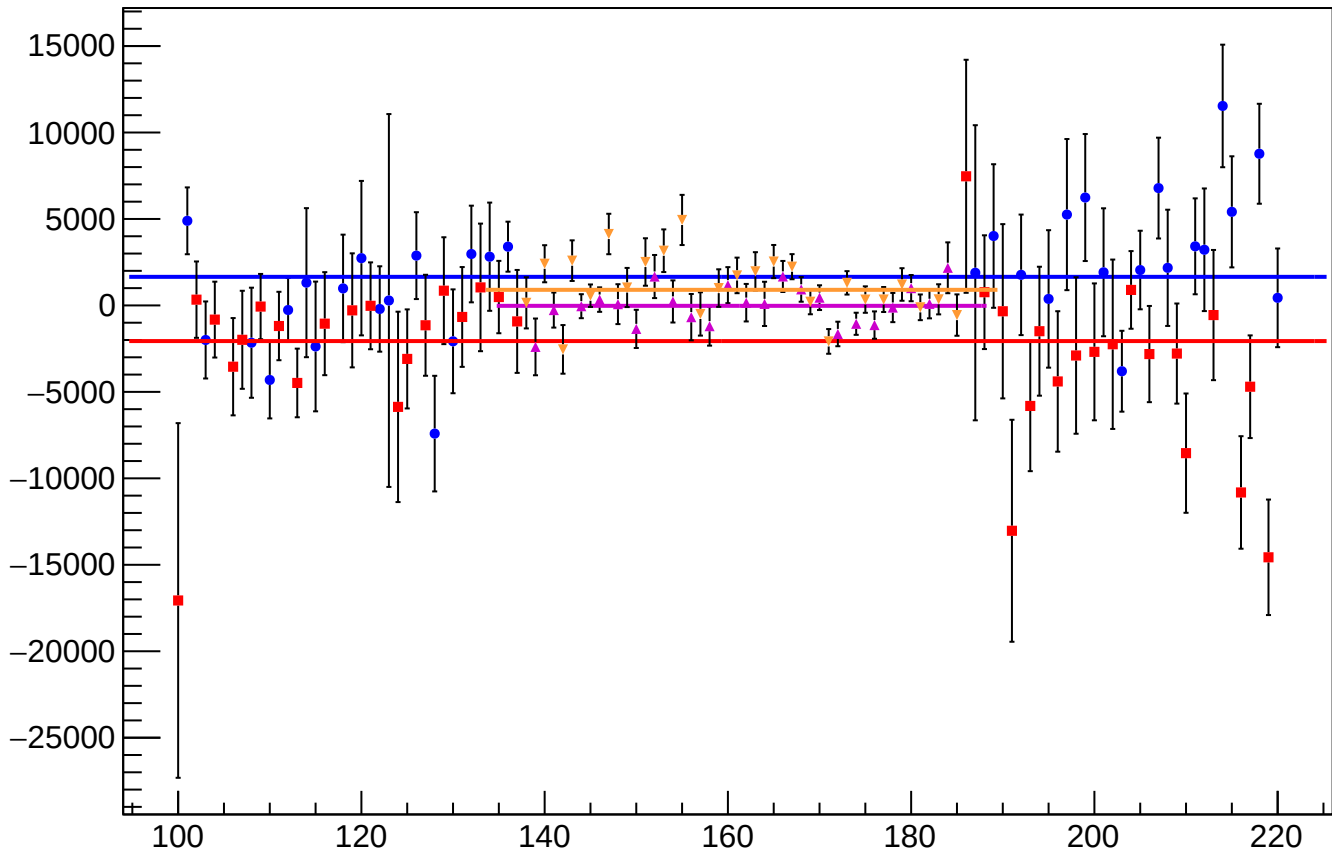
Right: 4331.098 $\pm$ 0.512 χ^2 /NDF: 4991632.9/70

In: 2440.771 $\pm$ 0.310 χ^2 /NDF: 10599616.7/56

Out: 2426.317 $\pm$ 0.305 χ^2 /NDF: 12473262.7/61

All: 2433.429 $\pm$ 0.217 χ^2 /NDF: 23073983.7/121

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1652.921 $\pm$ 487.439 χ^2 /NDF: 55.3/33

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF: 63.5/24

Right Out: -2061.735 $\pm$ 489.576 χ^2 /NDF: 46.7/36

Left In: -23.529 $\pm$ 188.137 χ^2 /NDF: 28.2/22

Left: 444.940 $\pm$ 132.217 χ^2 /NDF: 104.0/47

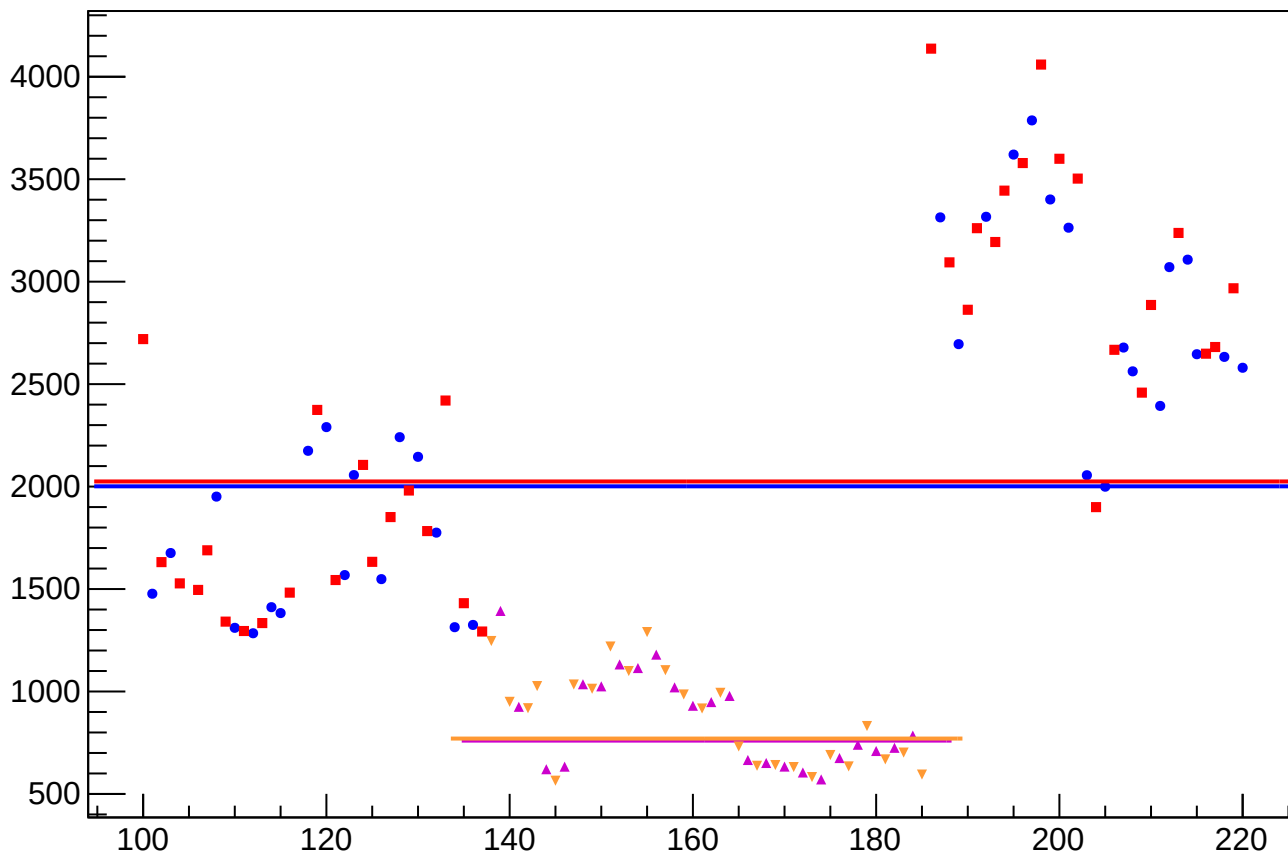
Right: -196.285 $\pm$ 345.424 χ^2 /NDF: 130.9/70

In: 193.834 $\pm$ 175.517 χ^2 /NDF: 93.8/56

Out: 528.779 $\pm$ 173.752 χ^2 /NDF: 142.3/61

All: 362.999 $\pm$ 123.480 χ^2 /NDF: 237.9/118

asym_sam3_rms vs Slug, Sign Corrected



Right In: 2001.267 $\pm$ 0.345 χ^2 /NDF: 3895465.6/33

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF:2287655.1/24

Right Out: 2025.034 $\pm$ 0.346 χ^2 /NDF: 4613699.2/36

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF:1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

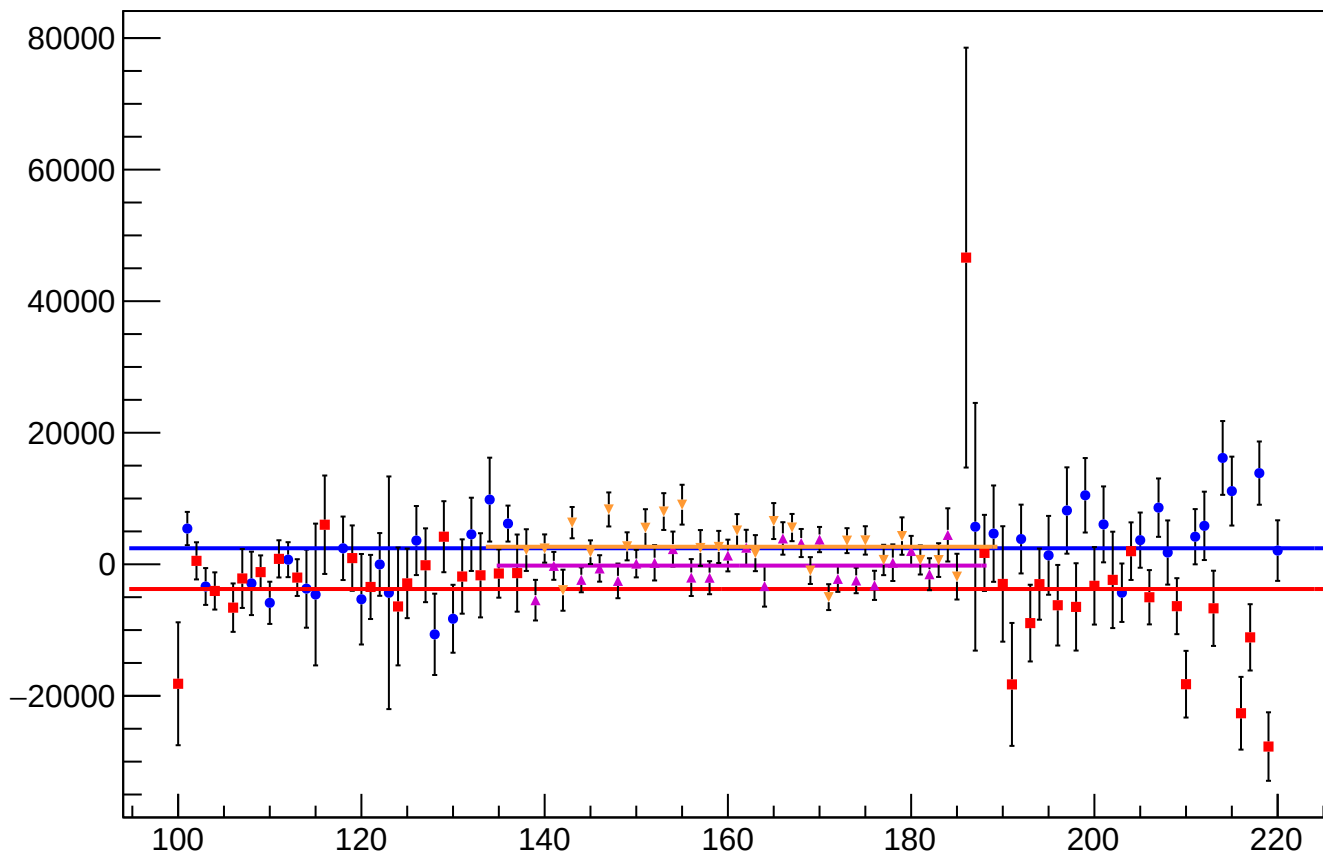
Right: 2013.099 $\pm$ 0.244 χ^2 /NDF: 8511531.8/70

In: 921.245 $\pm$ 0.124 χ^2 /NDF:17163638.3/56

Out: 928.359 $\pm$ 0.123 χ^2 /NDF:18383246.4/61

All: 924.838 $\pm$ 0.087 χ^2 /NDF: 35548543.9/11

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2438.246+/-784.023 χ^2/NDF : 52.2/33

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -3758.799+/-760.938 χ^2/NDF : 68.1/36

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

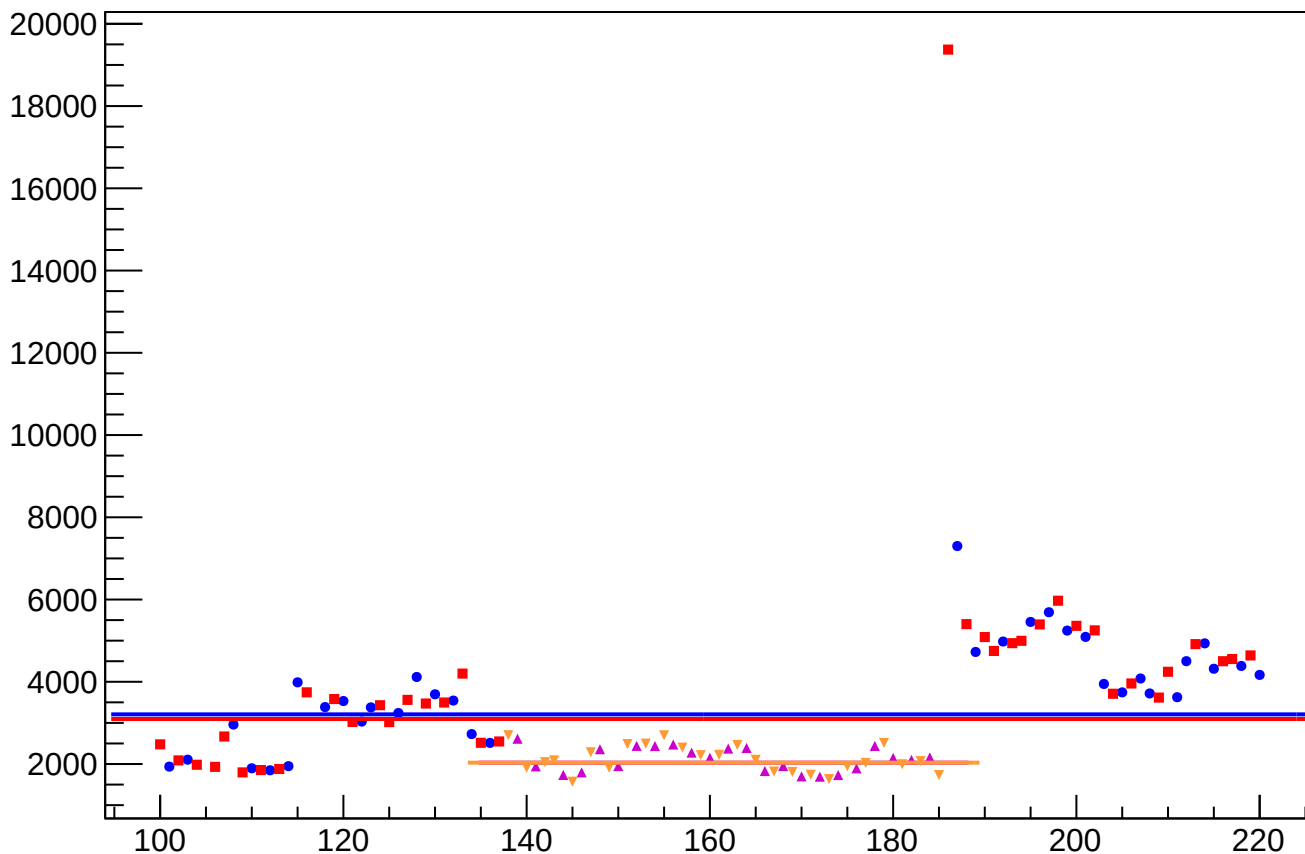
Right: -752.853+/-546.043 χ^2/NDF : 152.5/70

In: 546.028+/-416.790 χ^2/NDF : 86.1/56

Out: 838.148+/-405.840 χ^2/NDF : 168.3/61

All: 695.976+/-290.766 χ^2/NDF : 254.7/118

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3207.762 $\pm$ 0.554 χ^2 /NDF: 4261042.9/33

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 3095.115 $\pm$ 0.538 χ^2 /NDF: 5786790.7/36

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF: 652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

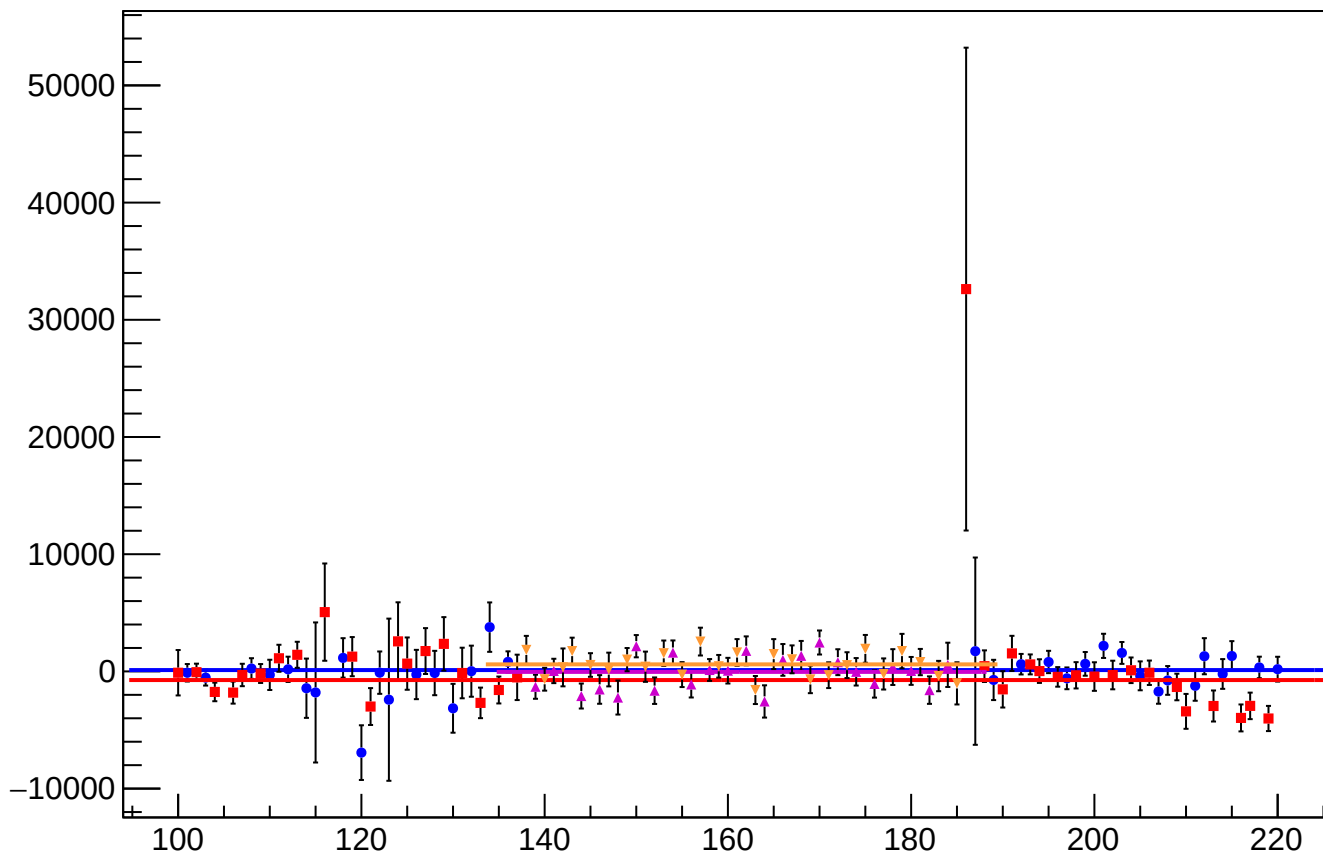
Right: 3149.755 $\pm$ 0.386 χ^2 /NDF: 10069093.7/70

In: 2364.743 $\pm$ 0.295 χ^2 /NDF: 8137001.6/56

Out: 2335.363 $\pm$ 0.287 χ^2 /NDF: 9397209.4/61

All: 2349.662 $\pm$ 0.206 χ^2 /NDF: 17539312.3/113

asym_sam5_mean vs Slug, Sign Corrected



Right In: 113.717 ± 205.174 χ^2/NDF : 32.3/33

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -738.345 ± 196.924 χ^2/NDF : 61.7/36

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

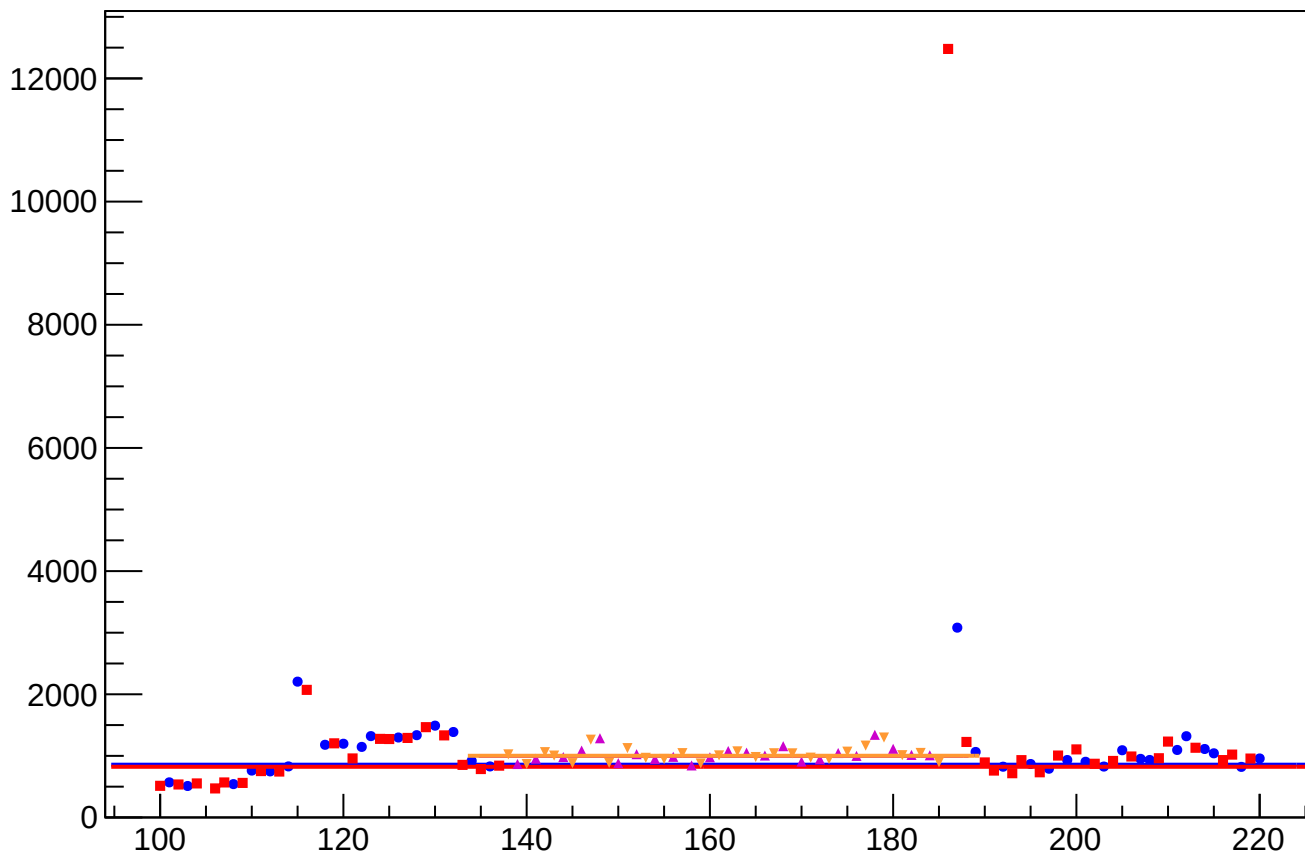
Right: -329.789 ± 142.073 χ^2/NDF : 103.0/70

In: 48.406 ± 156.174 χ^2/NDF : 68.9/56

Out: -186.152 ± 150.928 χ^2/NDF : 99.3/61

All: -72.879 ± 108.529 χ^2/NDF : 169.4/118

asym_sam5_rms vs Slug, Sign Corrected



Right In: 856.675 ± 0.145 χ^2/NDF : 2609668.8/33

Left Out: 1001.472 ± 0.166 χ^2/NDF : 370299.3/24

Right Out: 822.888 ± 0.139 χ^2/NDF : 3585154.5/36

Left In: 998.050 ± 0.170 χ^2/NDF : 404656.2/22

Left: 999.803 ± 0.119 χ^2/NDF : 775162.3/47

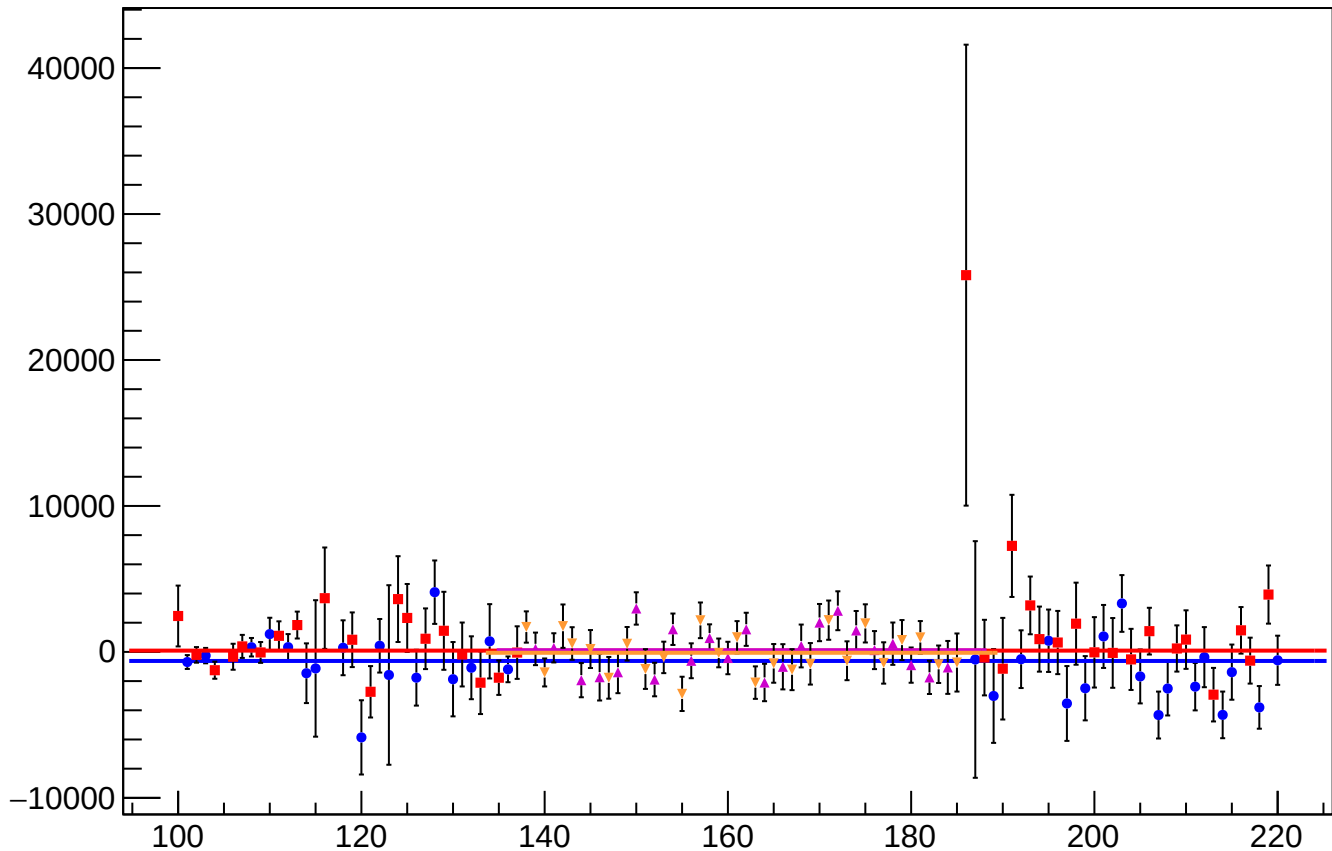
Right: 839.089 ± 0.100 χ^2/NDF : 6223054.7/70

In: 916.139 ± 0.110 χ^2/NDF : 3413723.0/56

Out: 896.570 ± 0.107 χ^2/NDF : 4634090.9/61

All: 906.020 ± 0.077 χ^2/NDF : 8064050.5/118

asym_sam6_mean vs Slug, Sign Corrected



Right In: -620.091+/-221.306 χ^2/NDF : 43.4/33

Left Out: -59.827+/-246.503 χ^2/NDF :31.0/24

Right Out: 88.442+/-220.491 χ^2/NDF : 40.4/36

Left In: 112.398+/-255.409 χ^2/NDF :34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

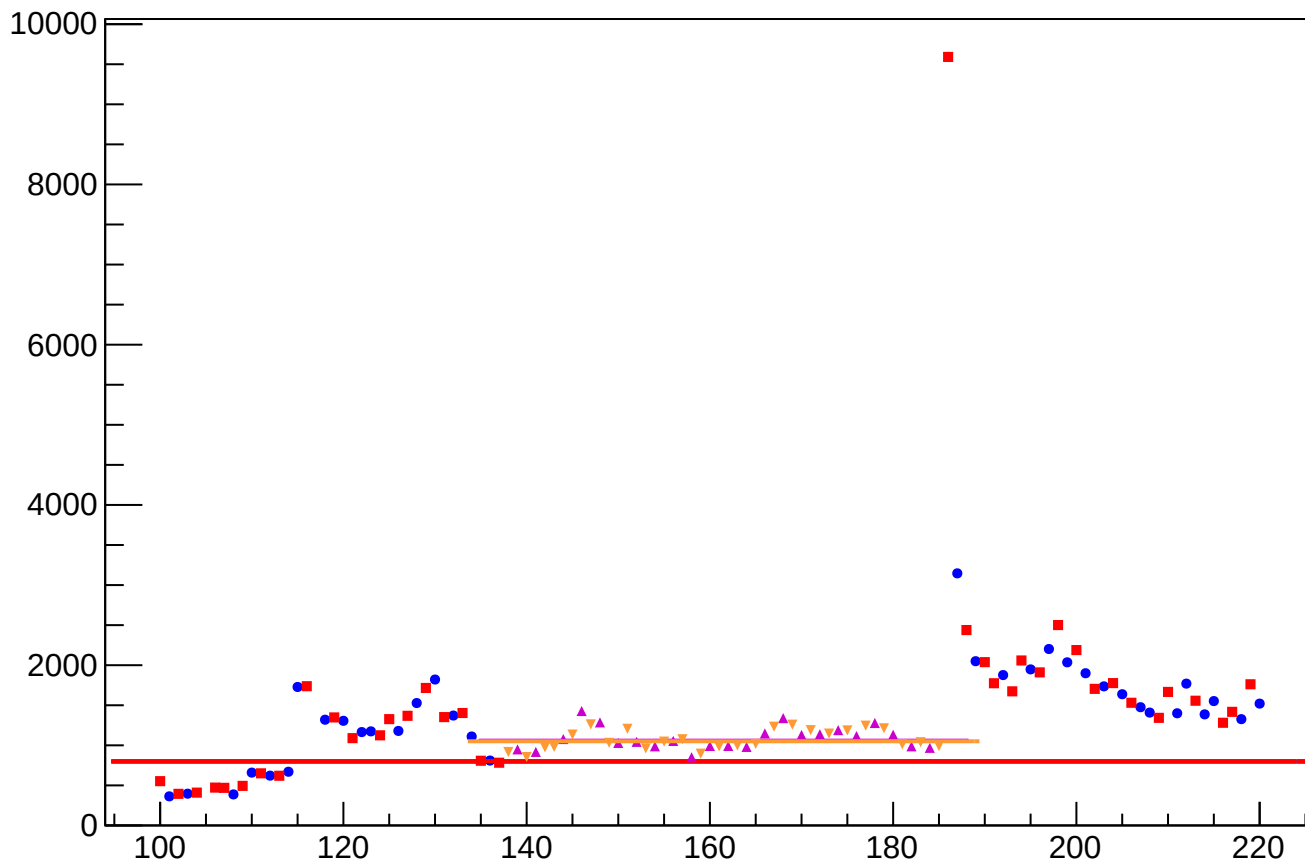
Right: -264.518+/-156.198 χ^2/NDF : 89.0/70

In: -305.981+/-167.254 χ^2/NDF :83.0/56

Out: 22.541+/-164.340 χ^2/NDF :71.6/61

All: -138.833+/-117.223 χ^2/NDF : 156.6/118

asym_sam6_rms vs Slug, Sign Corrected



Right In: 796.084+/-0.156 χ^2/NDF : 11786096.4/33

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 803.696+/-0.156 χ^2/NDF : 12170774.3/36

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

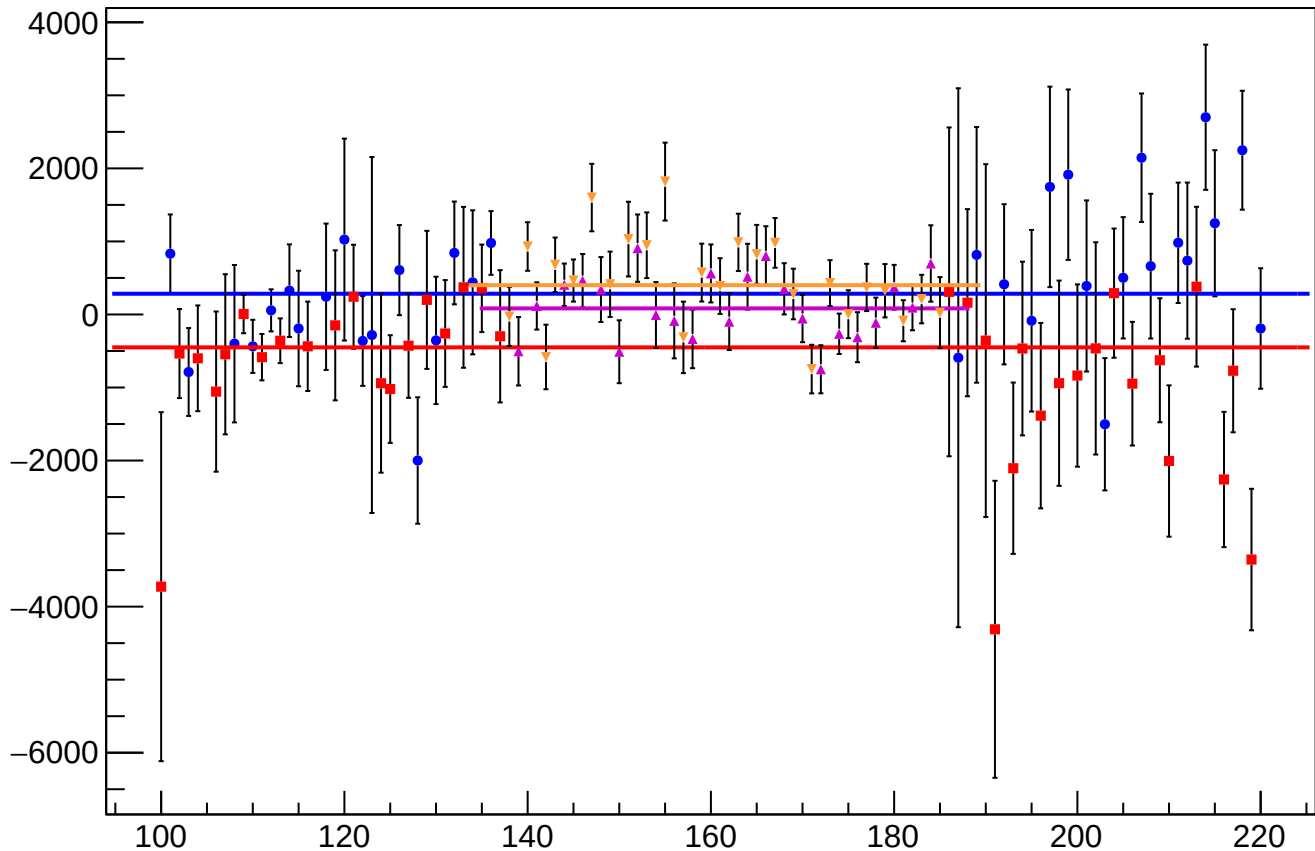
Right: 799.904+/-0.110 χ^2/NDF : 23958058.2/70

In: 908.442+/-0.118 χ^2/NDF : 13516849.9/56

Out: 913.460+/-0.116 χ^2/NDF : 13769031.6/61

All: 910.995+/-0.083 χ^2/NDF : 27286797.4/117

asym_sam7_mean vs Slug, Sign Corrected



Right In: 283.829+/-124.122 χ^2/NDF : 47.8/33

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -450.506+/-116.476 χ^2/NDF : 33.9/36

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

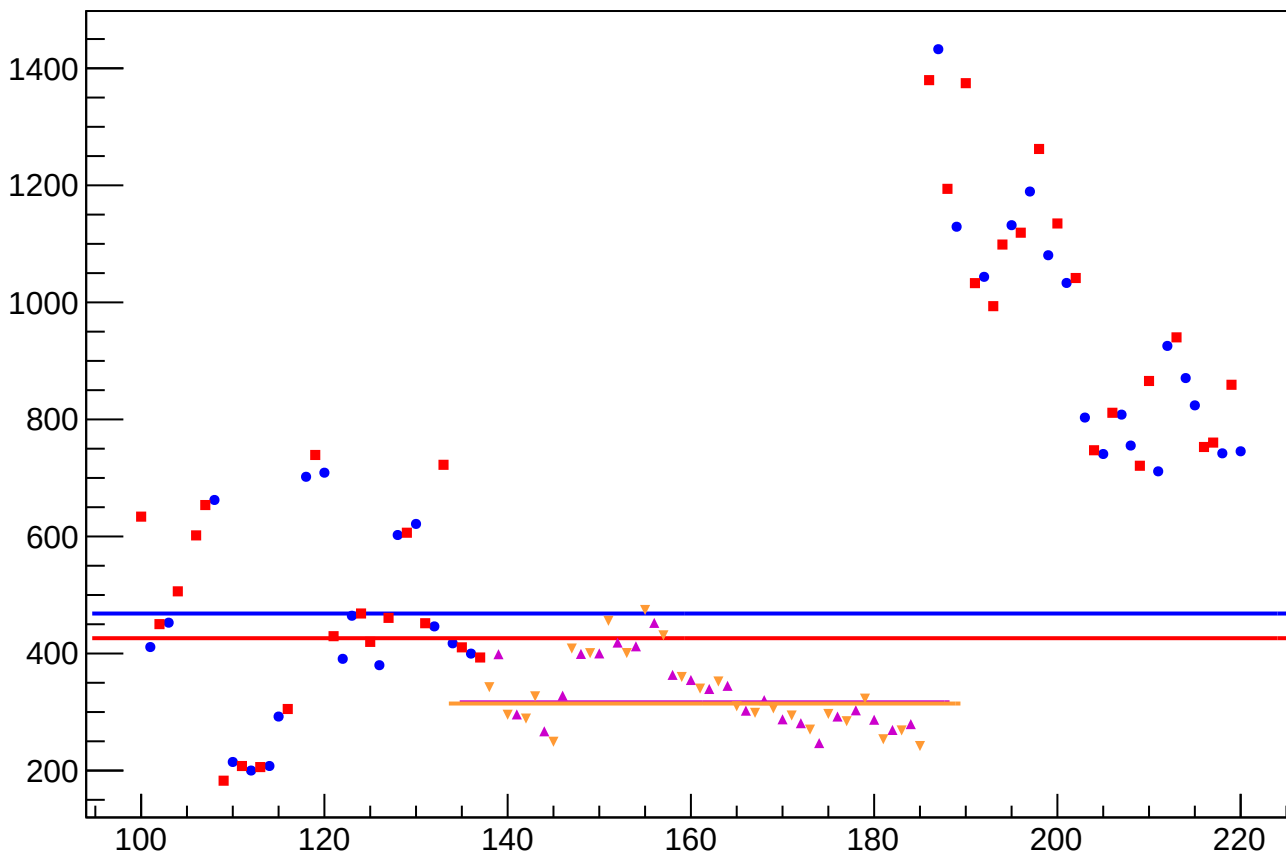
Right: -106.651+/-84.936 χ^2/NDF : 100.2/70

In: 138.629+/-65.373 χ^2/NDF : 78.7/56

Out: 153.555+/-62.788 χ^2/NDF : 123.8/61

All: 146.393+/-45.284 χ^2/NDF : 202.5/118

asym_sam7_rms vs Slug, Sign Corrected



Right In: 468.328+/-0.088 χ^2/NDF : 9282868.0/33

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 426.178+/-0.082 χ^2/NDF : 12030222.4/36

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

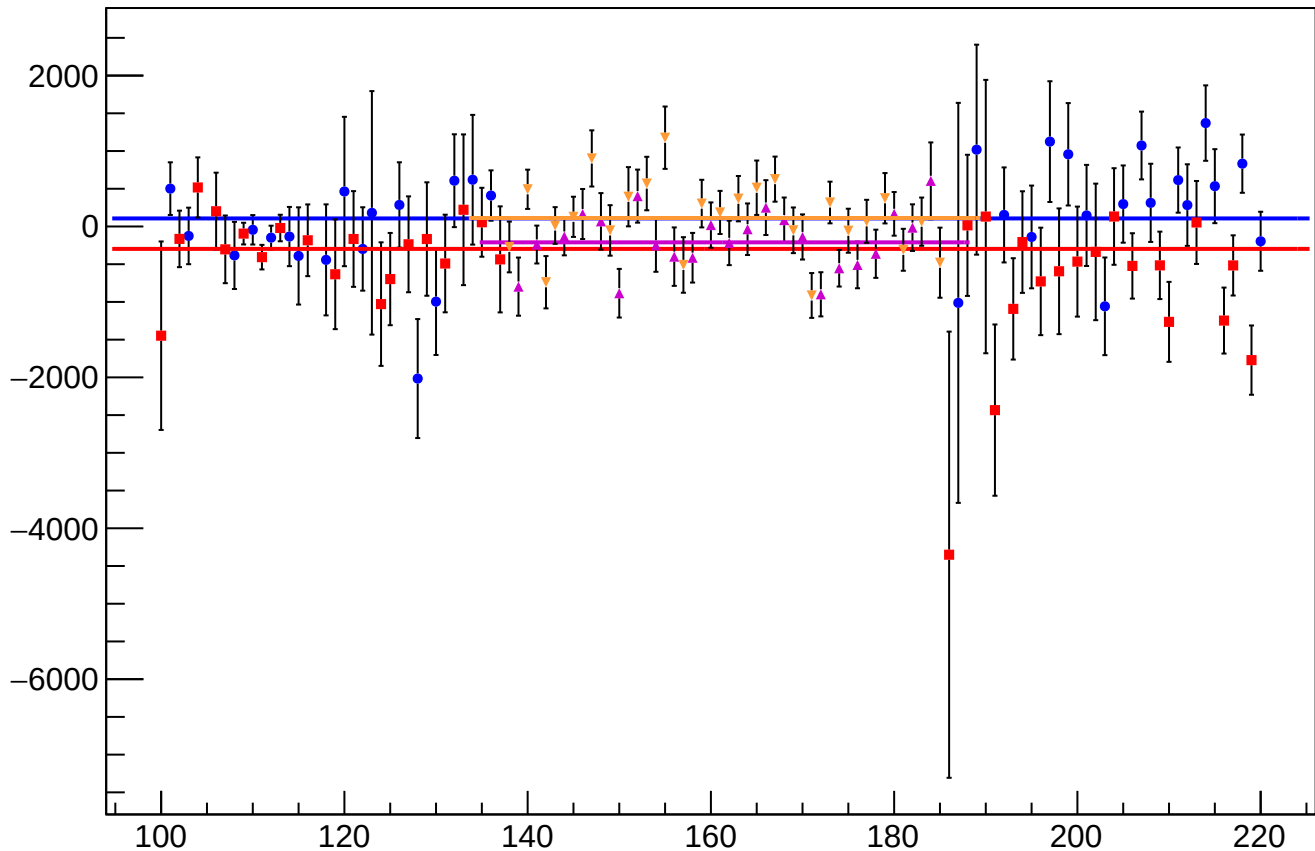
Right: 445.915+/-0.060 χ^2/NDF : 21435733.2/70

In: 358.722+/-0.046 χ^2/NDF : 12361969.8/56

Out: 346.979+/-0.044 χ^2/NDF : 14446104.1/61

All: 352.614+/-0.032 χ^2/NDF : 26841643.8/13

asym_sam8_mean vs Slug, Sign Corrected



Right In: 106.580 $\pm$ 74.965 χ^2/NDF : 44.8/33

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -296.975 $\pm$ 67.731 χ^2/NDF : 41.2/36

Left In: -210.453 $\pm$ 65.510 χ^2/NDF : 29.2/22

Left: -41.890 $\pm$ 45.275 χ^2/NDF : 91.0/47

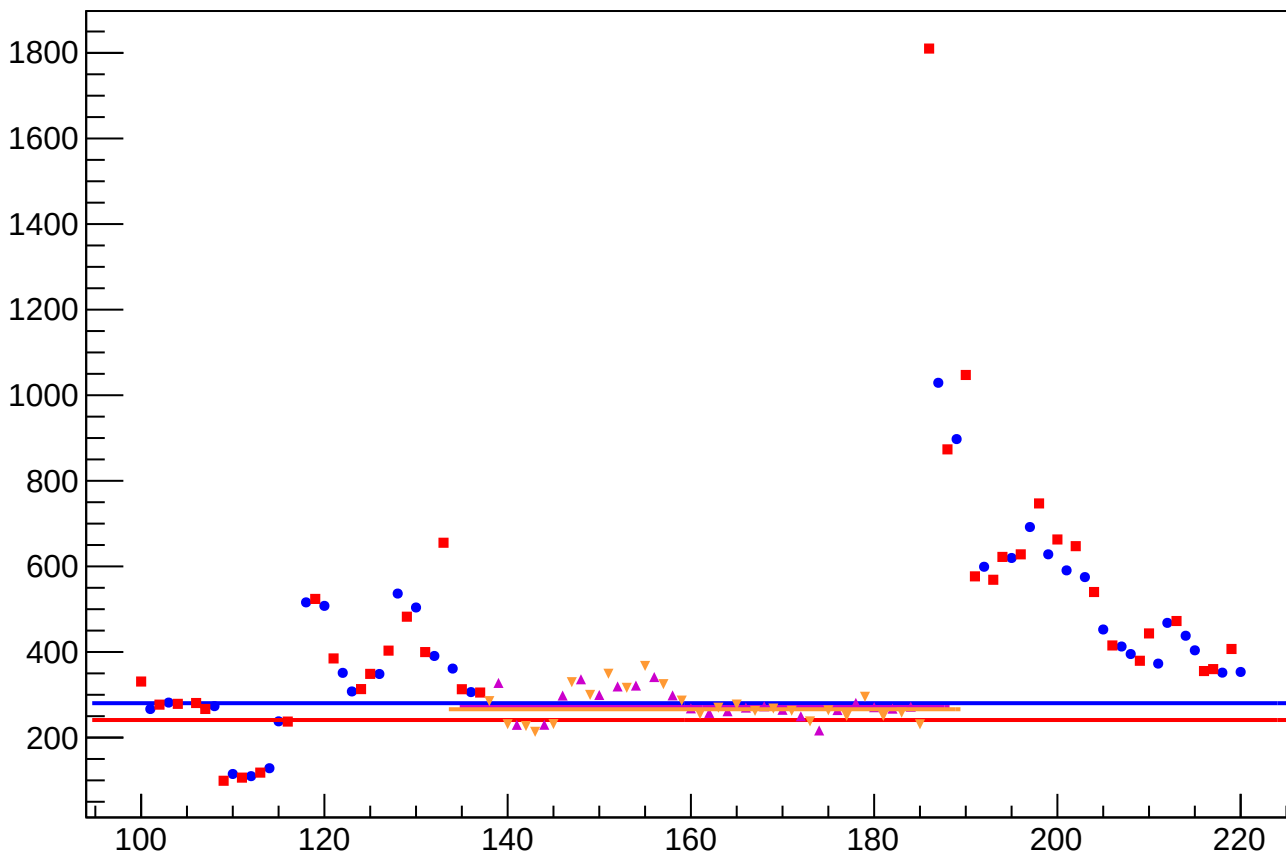
Right: -115.605 $\pm$ 50.256 χ^2/NDF : 101.9/70

In: -73.179 $\pm$ 49.329 χ^2/NDF : 84.1/56

Out: -76.422 $\pm$ 45.989 χ^2/NDF : 110.0/61

All: -74.914 $\pm$ 33.638 χ^2/NDF : 194.0/118

asym_sam8_rms vs Slug, Sign Corrected



Right In: 280.358+/-0.053 χ^2/NDF : 9697555.9/33

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 241.033+/-0.048 χ^2/NDF : 13455257.8/36

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

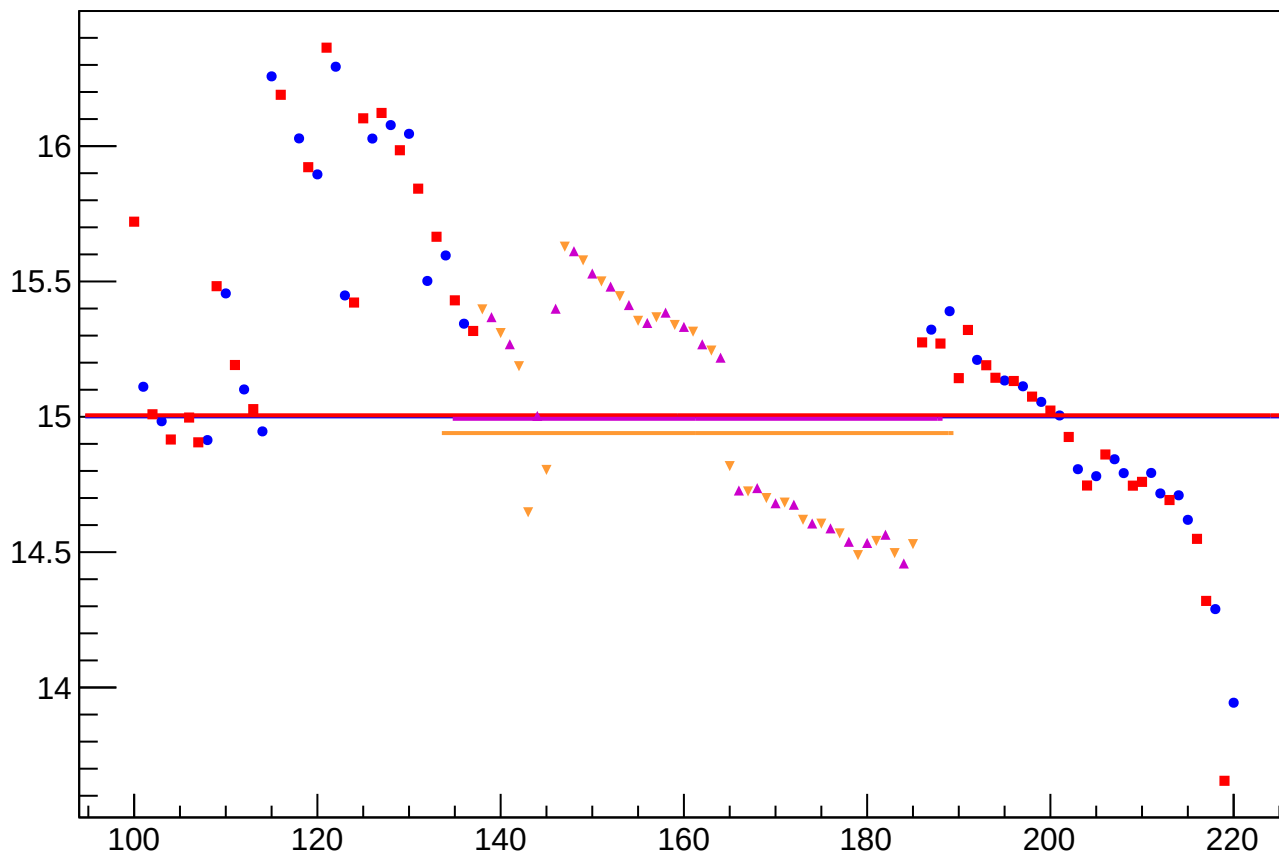
Right: 258.707+/-0.036 χ^2/NDF : 23455830.8/70

In: 275.287+/-0.035 χ^2/NDF : 10235573.1/56

Out: 254.601+/-0.033 χ^2/NDF : 14253800.2/61

All: 264.220+/-0.024 χ^2/NDF : 24677543.6/13

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.001+/-0.000 χ^2/NDF : 36024566964.7/33

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.006+/-0.000 χ^2/NDF : 39961745110.6/36

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

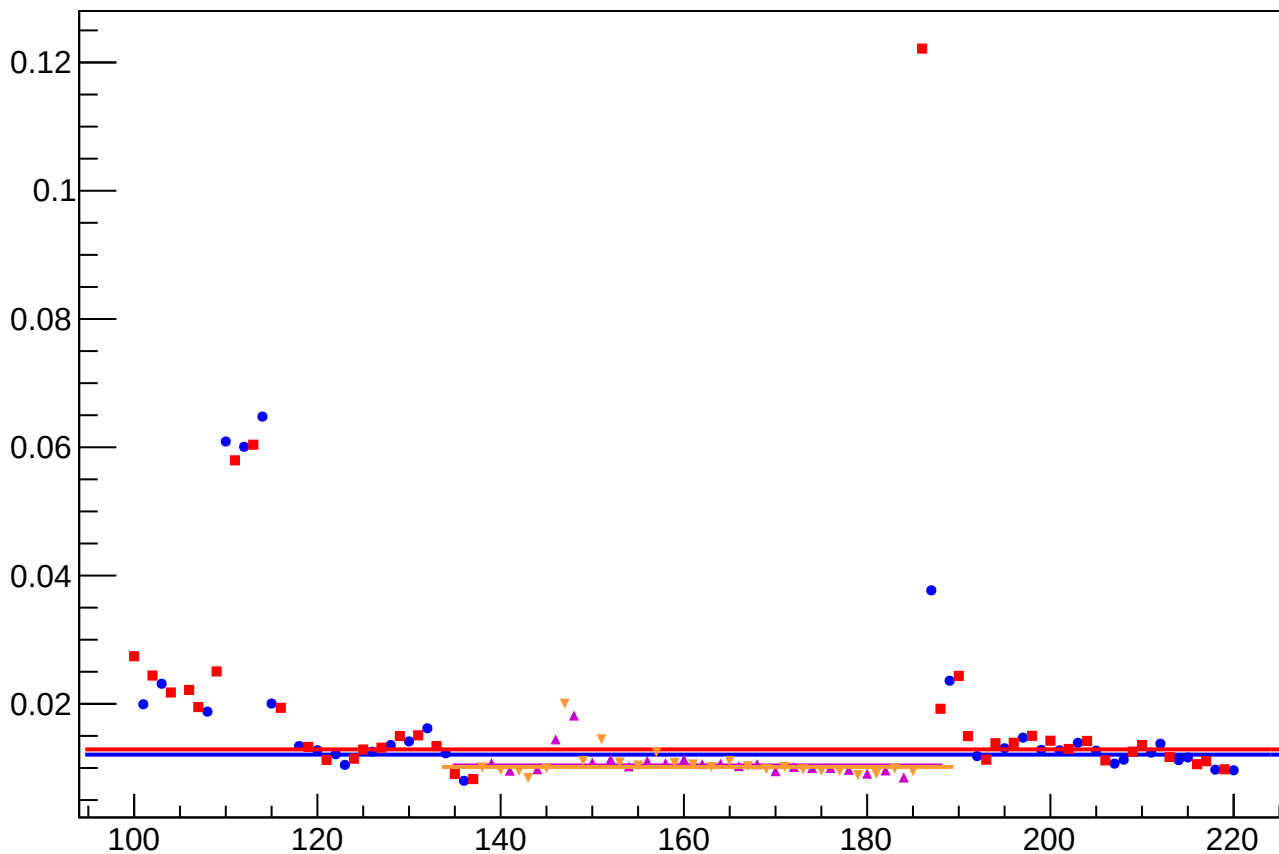
Right: 15.003+/-0.000 χ^2/NDF : 75987218648.4/70

In: 14.996+/-0.000 χ^2/NDF : 58052778773.7/56

Out: 14.965+/-0.000 χ^2/NDF : 64432878614.7/61

All: 14.980+/-0.000 χ^2/NDF : 122621127877.

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2836148.1/33

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3451611.0/36

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 544268.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1270343.0/47

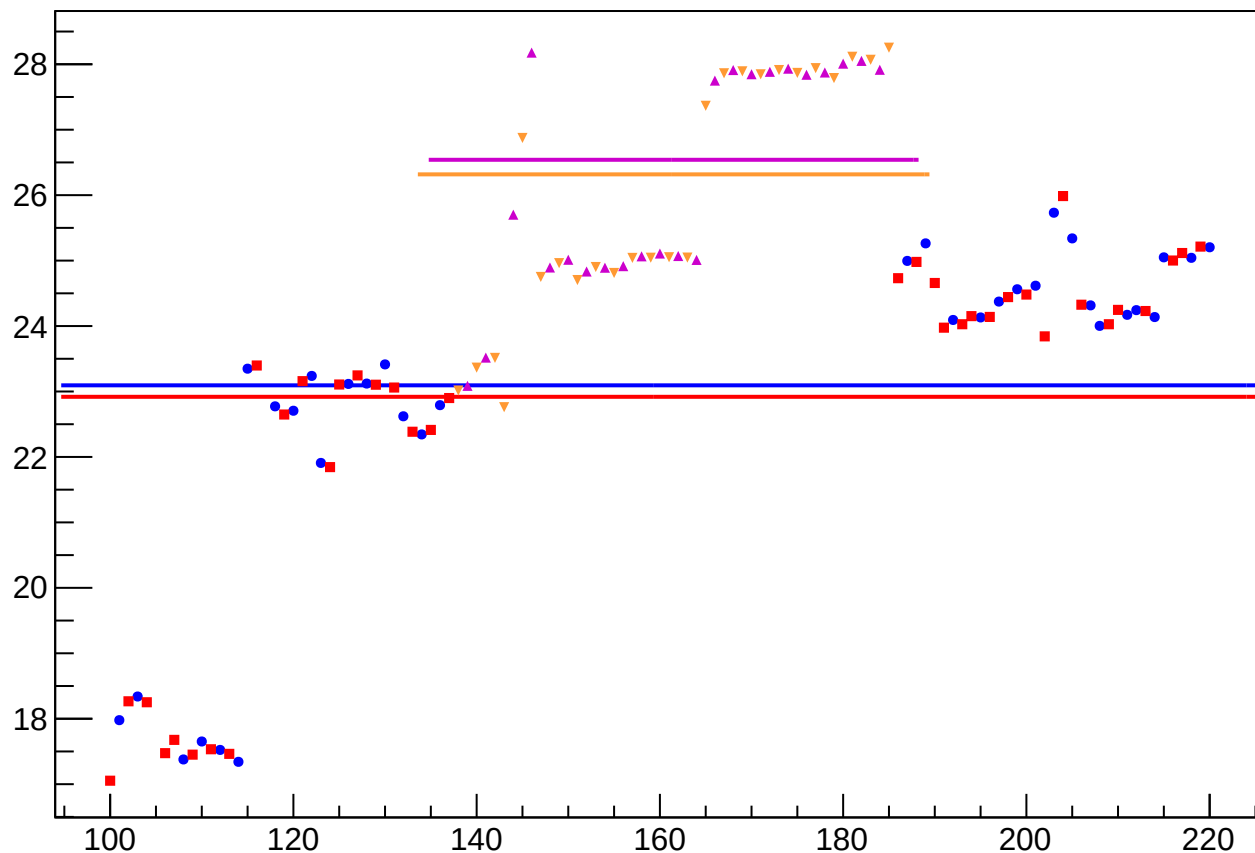
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 6358981.2/70

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3750865.5/56

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 5110012.0/61

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8862271.2/118

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.094+/-0.000

χ^2/NDF : 1581274109.8/33

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 23.011+/-0.000

χ^2/NDF : 3388556445.4/70

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

In: 25.627+/-0.000

χ^2/NDF : 8969940437.0/56

Right Out: 22.919+/-0.000

χ^2/NDF : 1800470020.3/36

Out: 25.535+/-0.000

χ^2/NDF : 10266657608.6/61

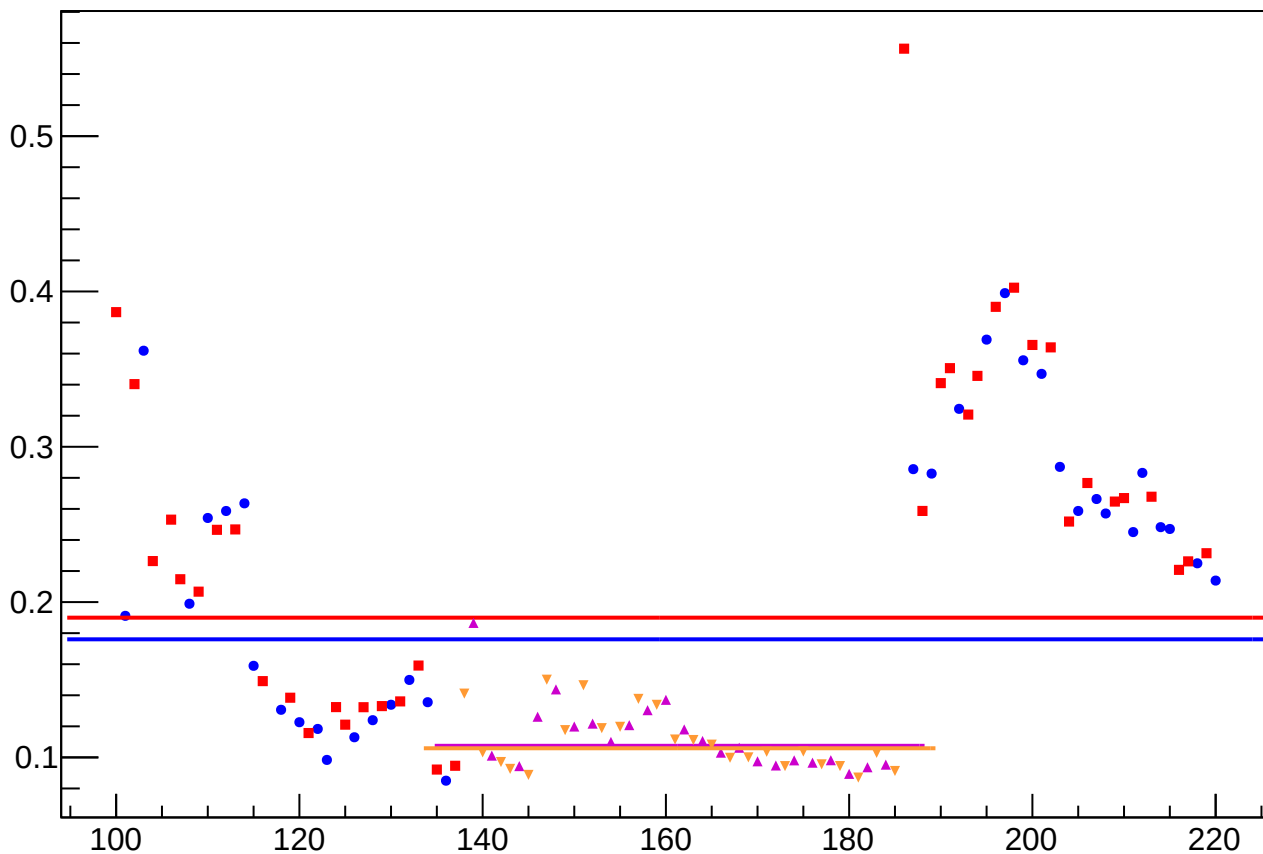
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.580+/-0.000

χ^2/NDF : 19244103445.8

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.176+/-0.000 χ^2/NDF : 6559746.1/33

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.190+/-0.000 χ^2/NDF : 6167642.1/36

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

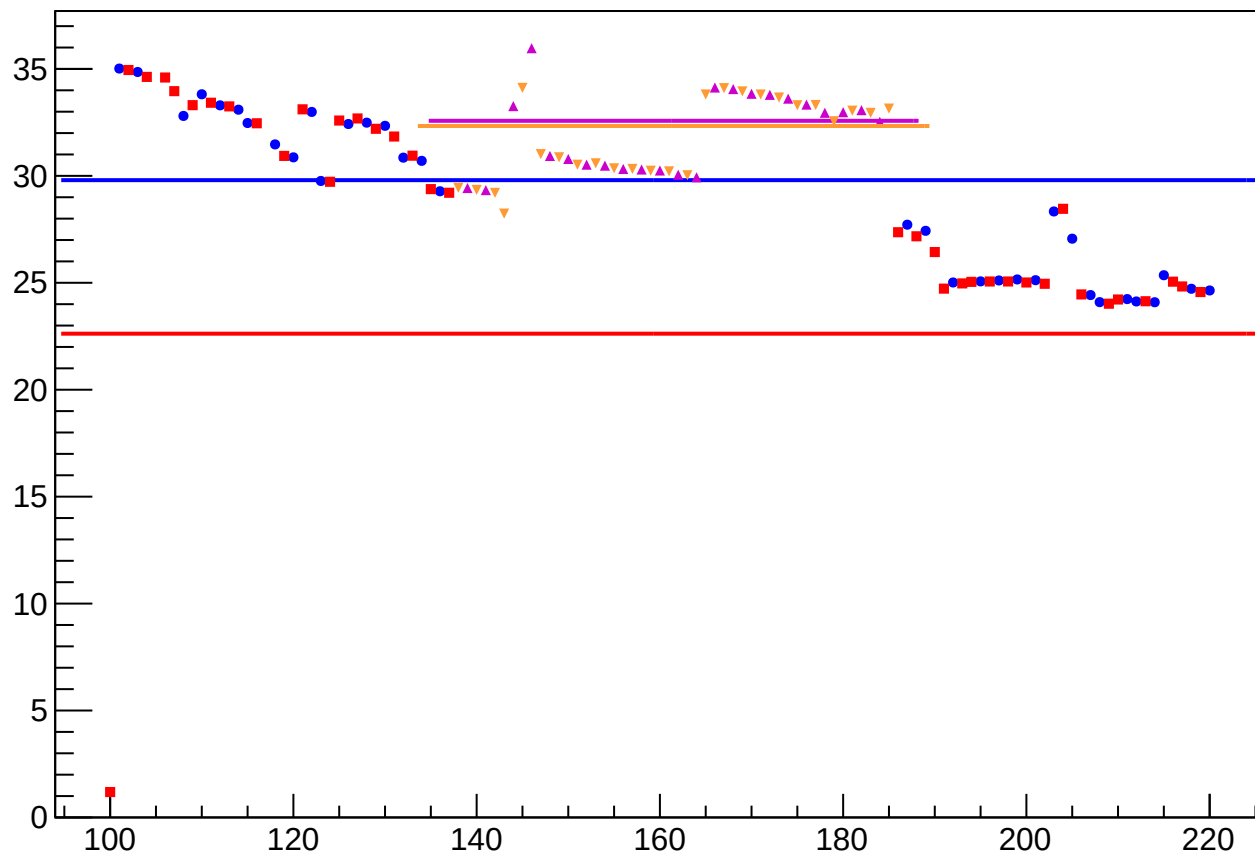
Right: 0.183+/-0.000 χ^2/NDF : 12813611.8/70

In: 0.126+/-0.000 χ^2/NDF : 10560369.4/56

Out: 0.125+/-0.000 χ^2/NDF : 11492952.8/61

All: 0.125+/-0.000 χ^2/NDF : 22053617.4/118

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.799 $\pm$ 0.000 χ^2 /NDF: 12235706723.3/33

Left Out: 32.331 $\pm$ 0.000 χ^2 /NDF: 12850475096.2/24

Right Out: 22.621 $\pm$ 0.000 χ^2 /NDF: 232676444189.4/36

Left In: 32.574 $\pm$ 0.000 χ^2 /NDF: 11797772603.7/22

Left: 32.450 $\pm$ 0.000 χ^2 /NDF: 24766521375.8/47

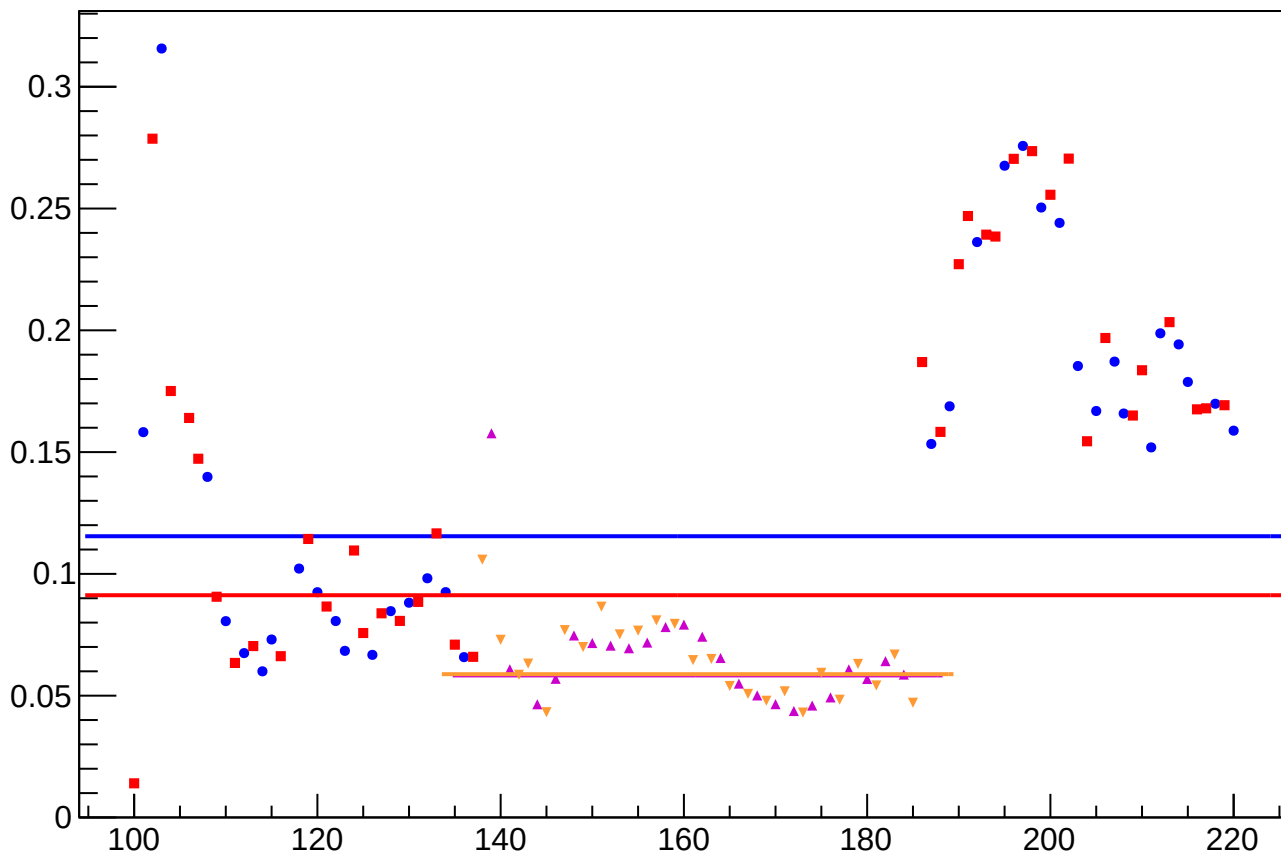
Right: 25.719 $\pm$ 0.000 χ^2 /NDF: 275489145560.7/70

In: 31.990 $\pm$ 0.000 χ^2 /NDF: 30383327073.4/56

Out: 29.891 $\pm$ 0.000 χ^2 /NDF: 342590571405.6/61

All: 30.890 $\pm$ 0.000 χ^2 /NDF: 384446925238.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.115 $\pm$ 0.000 χ^2 /NDF: 6970646.4/33

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 12829404.6/36

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

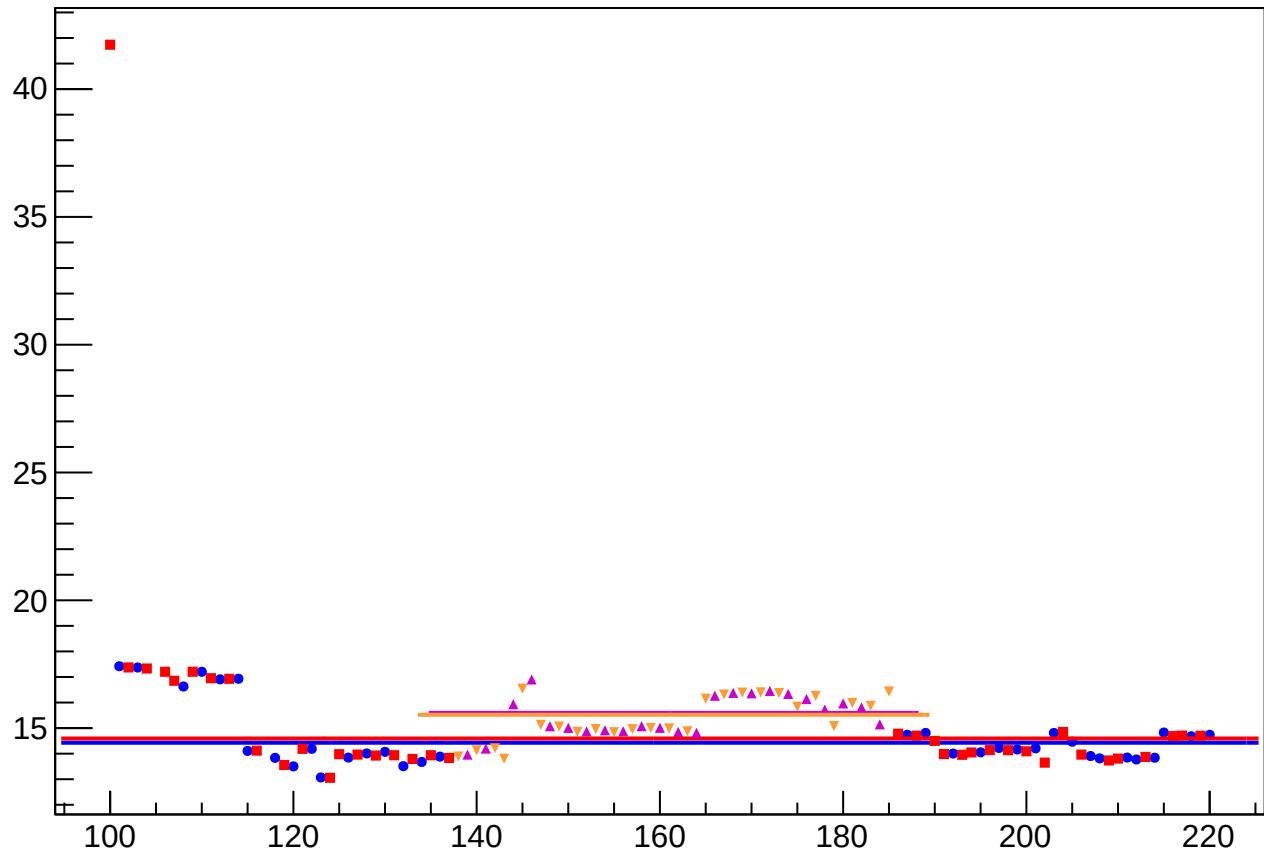
Right: 0.102 $\pm$ 0.000 χ^2 /NDF: 20496341.4/70

In: 0.070 $\pm$ 0.000 χ^2 /NDF:13880769.0/56

Out: 0.067 $\pm$ 0.000 χ^2 /NDF:16394695.9/61

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 30334256.7/118

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.427 $\pm$ 0.000 χ^2 /NDF: 1576105012.5/33

Left Out: 15.521 $\pm$ 0.000 χ^2 /NDF: 2591377740.5/24

Right Out: 14.593 $\pm$ 0.000 χ^2 /NDF: 2039608223.4/36

Left In: 15.595 $\pm$ 0.000 χ^2 /NDF: 1908733580.5/22

Left: 15.557 $\pm$ 0.000 χ^2 /NDF: 4510008259.4/47

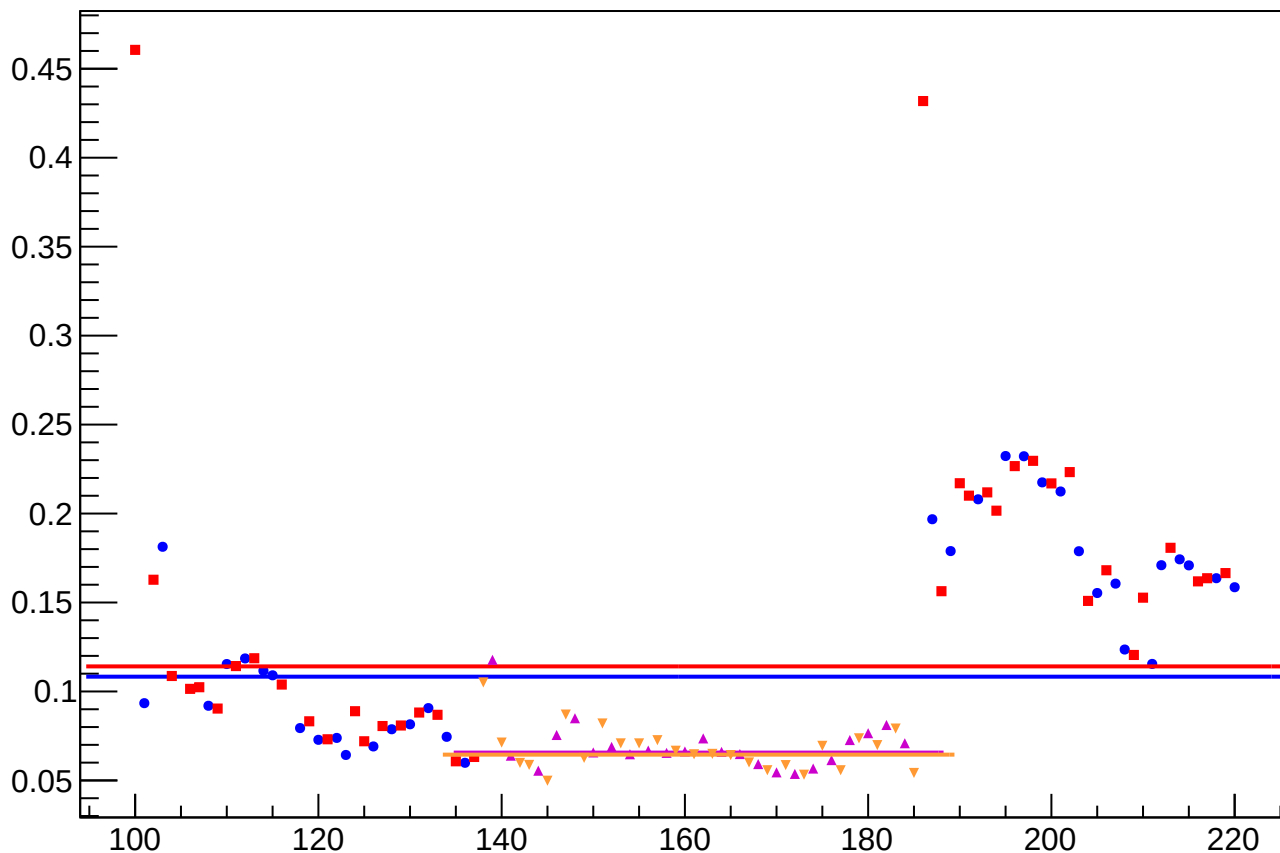
Right: 14.507 $\pm$ 0.000 χ^2 /NDF: 3632687563.5/70

In: 15.280 $\pm$ 0.000 χ^2 /NDF: 4751833494.0/56

Out: 15.298 $\pm$ 0.000 χ^2 /NDF: 5406351073.7/61

All: 15.289 $\pm$ 0.000 χ^2 /NDF: 10158990071.7

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.108+/-0.000 χ^2/NDF : 5910106.9/33

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.114+/-0.000 χ^2/NDF : 5780351.9/36

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

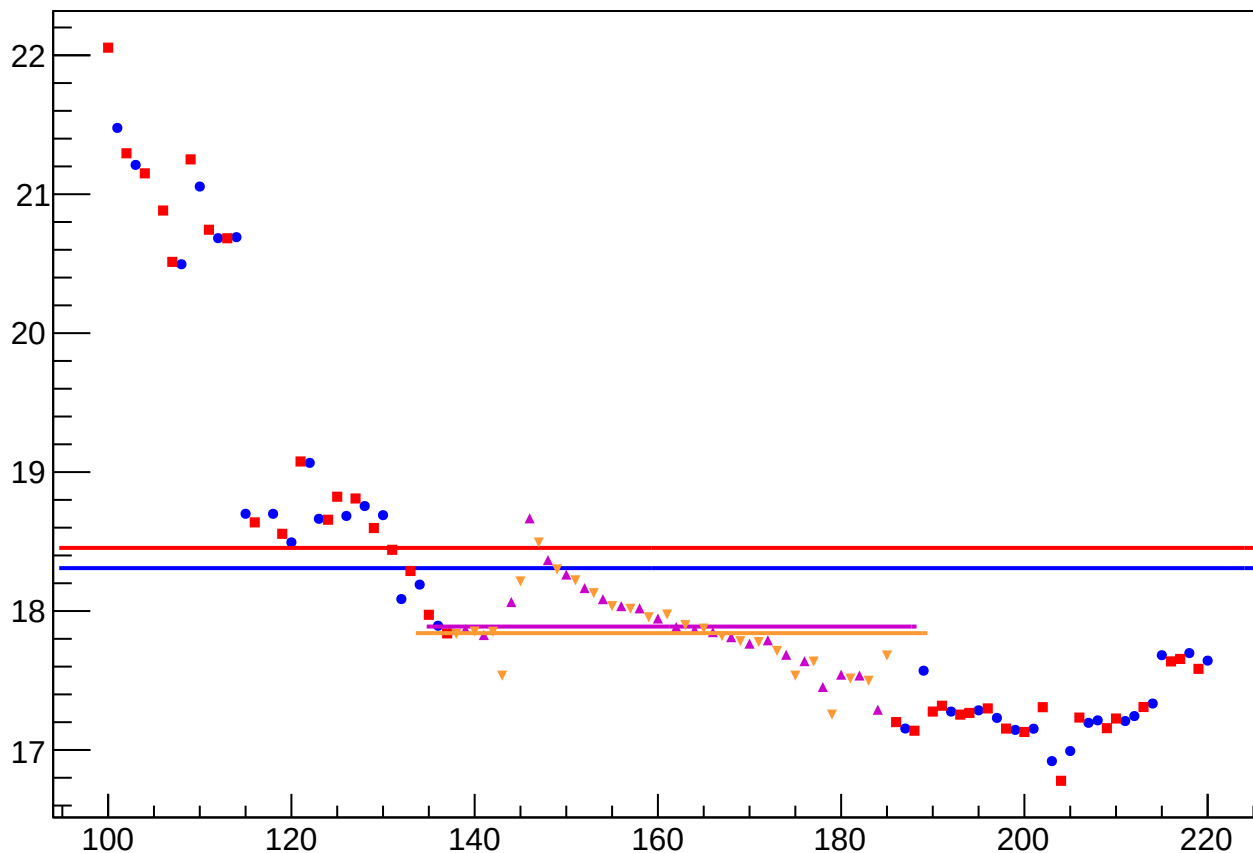
Right: 0.111+/-0.000 χ^2/NDF : 11731435.2/70

In: 0.077+/-0.000 χ^2/NDF : 10005344.2/56

Out: 0.076+/-0.000 χ^2/NDF : 10975092.4/61

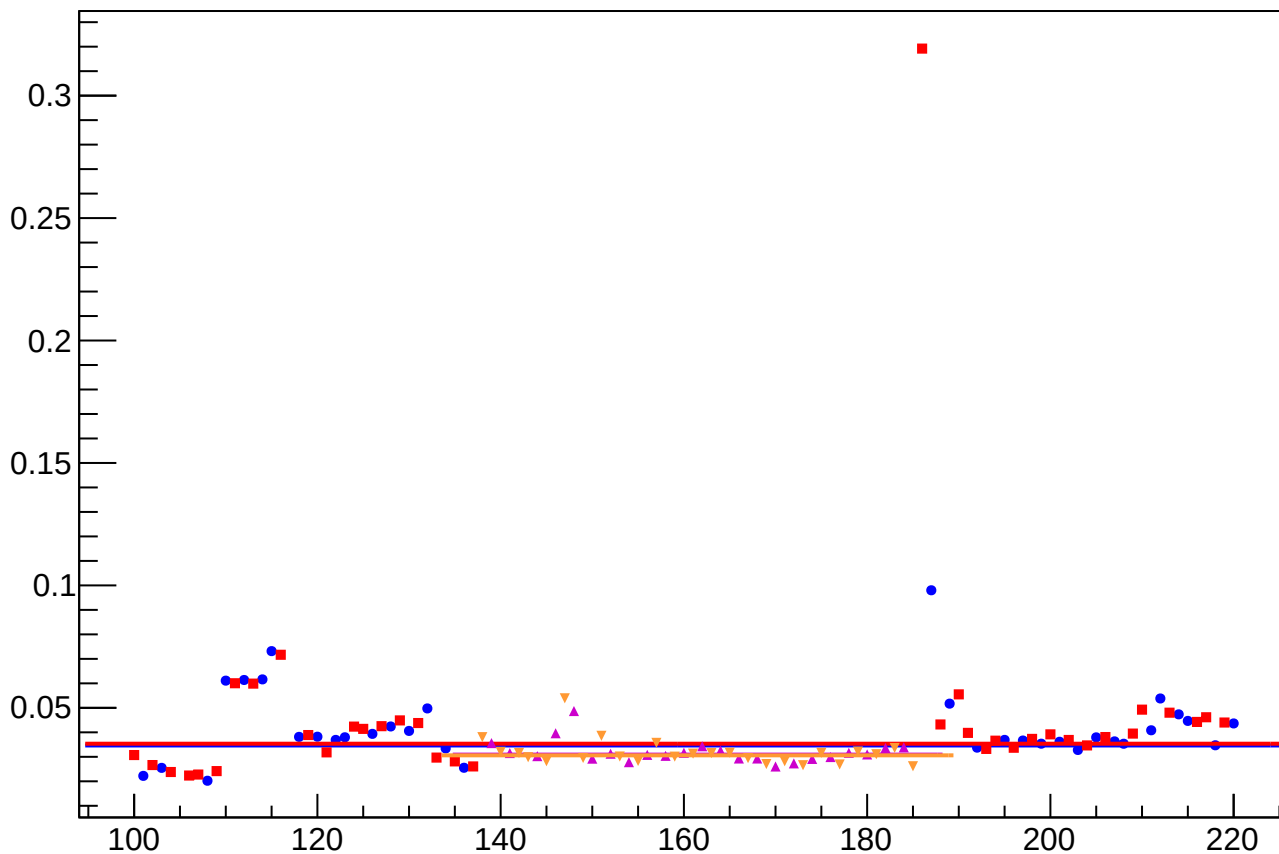
All: 0.077+/-0.000 χ^2/NDF : 20983192.1/118

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.309+/-0.000	χ^2/NDF : 32873907102.8/33	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.381+/-0.000	χ^2/NDF : 68042708489.2/70
Right Out: 18.454+/-0.000	χ^2/NDF : 35021506554.5/36	In: 18.077+/-0.000	χ^2/NDF : 35453331061.1/56
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.101+/-0.000	χ^2/NDF : 39278838797.5/61
		All: 18.089+/-0.000	χ^2/NDF : 74741661735.9

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.000 χ^2 /NDF: 2254992.9/33

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2647174.9/36

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

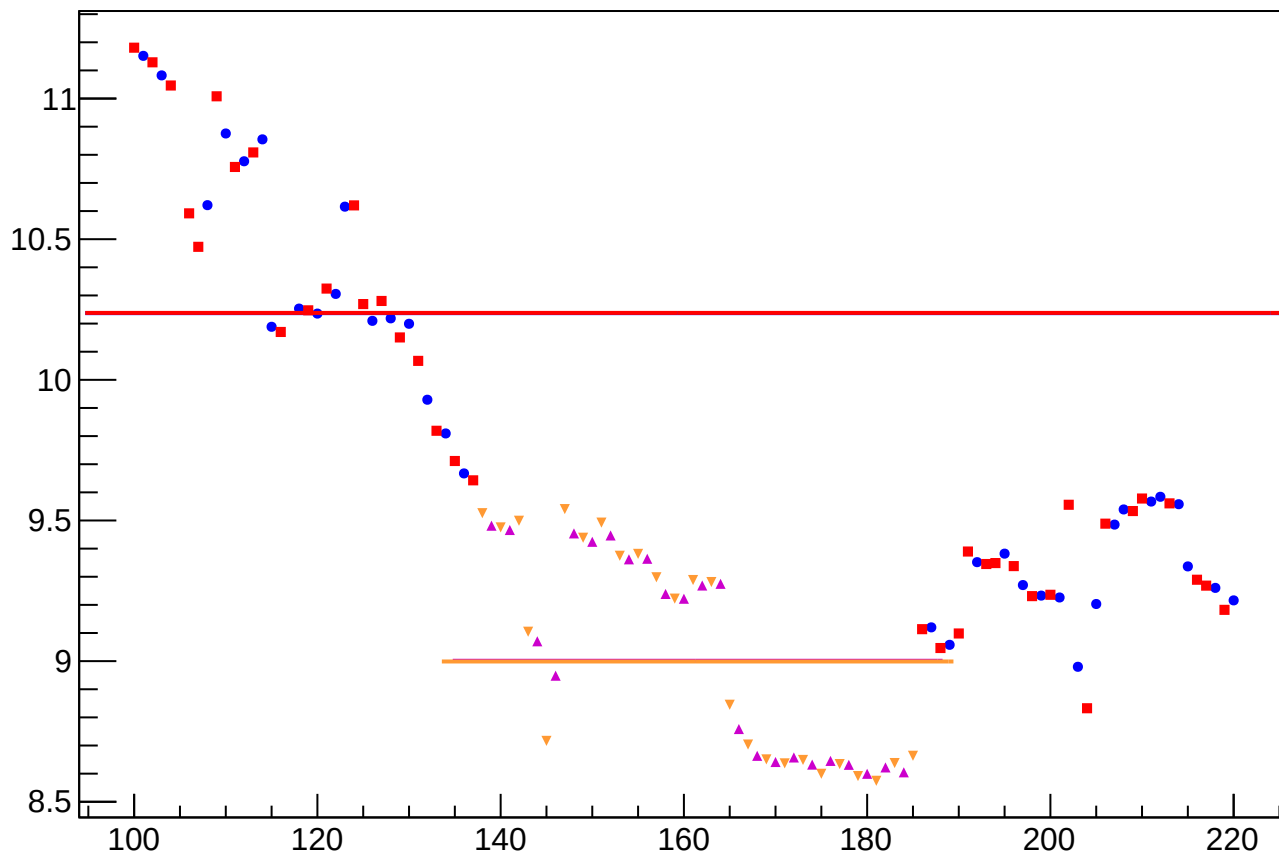
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 4909266.0/70

In: 0.033 $\pm$ 0.000 χ^2 /NDF:2925750.4/56

Out: 0.033 $\pm$ 0.000 χ^2 /NDF:3593519.8/61

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 6519331.7/118

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.237+/-0.000 χ^2/NDF : 18893482127.8/33

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.238+/-0.000 χ^2/NDF : 16953645843.2/36

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

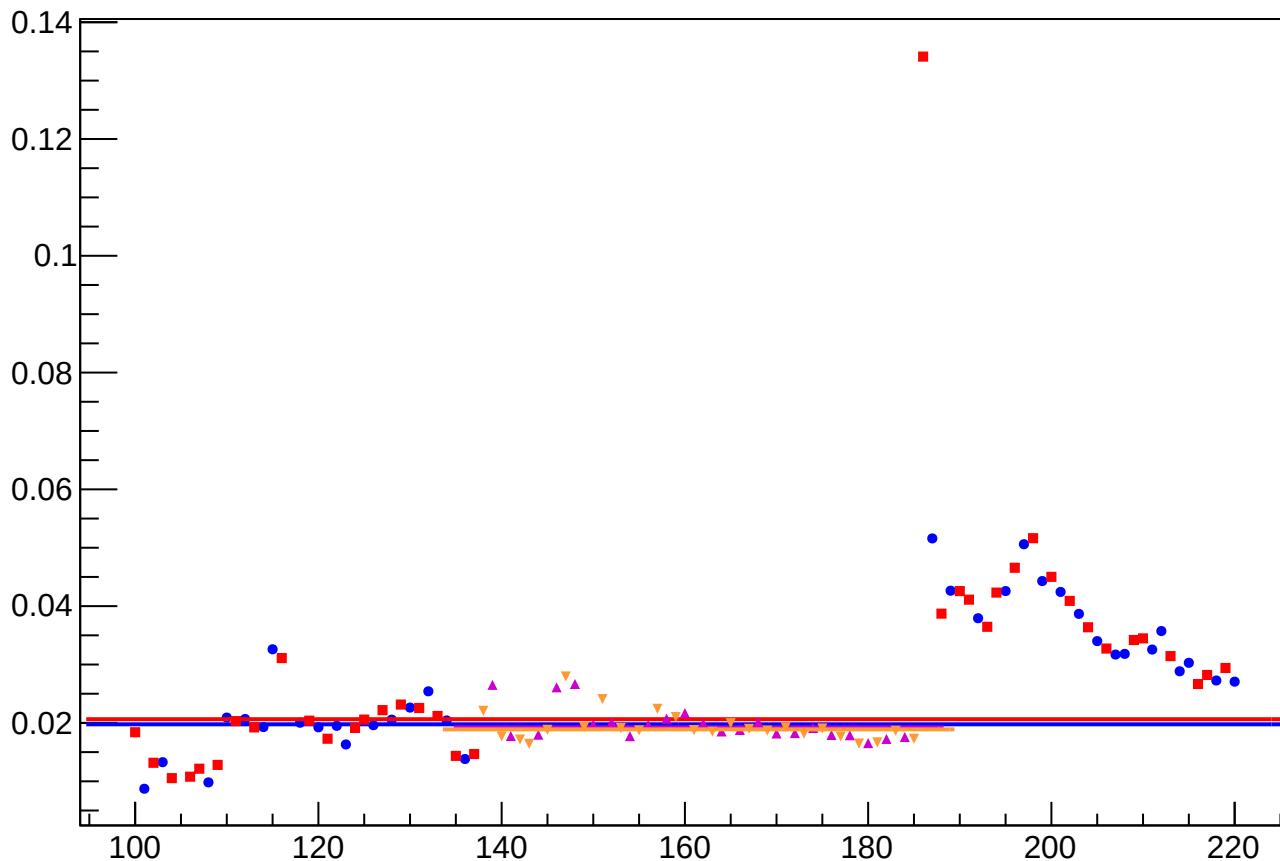
Right: 10.238+/-0.000 χ^2/NDF : 35847139795.3/70

In: 9.566+/-0.000 χ^2/NDF : 54111343158.4/56

Out: 9.523+/-0.000 χ^2/NDF : 53897522140.6/61

All: 9.545+/-0.000 χ^2/NDF : 108082856018.4

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7773837.0/33

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 7544239.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

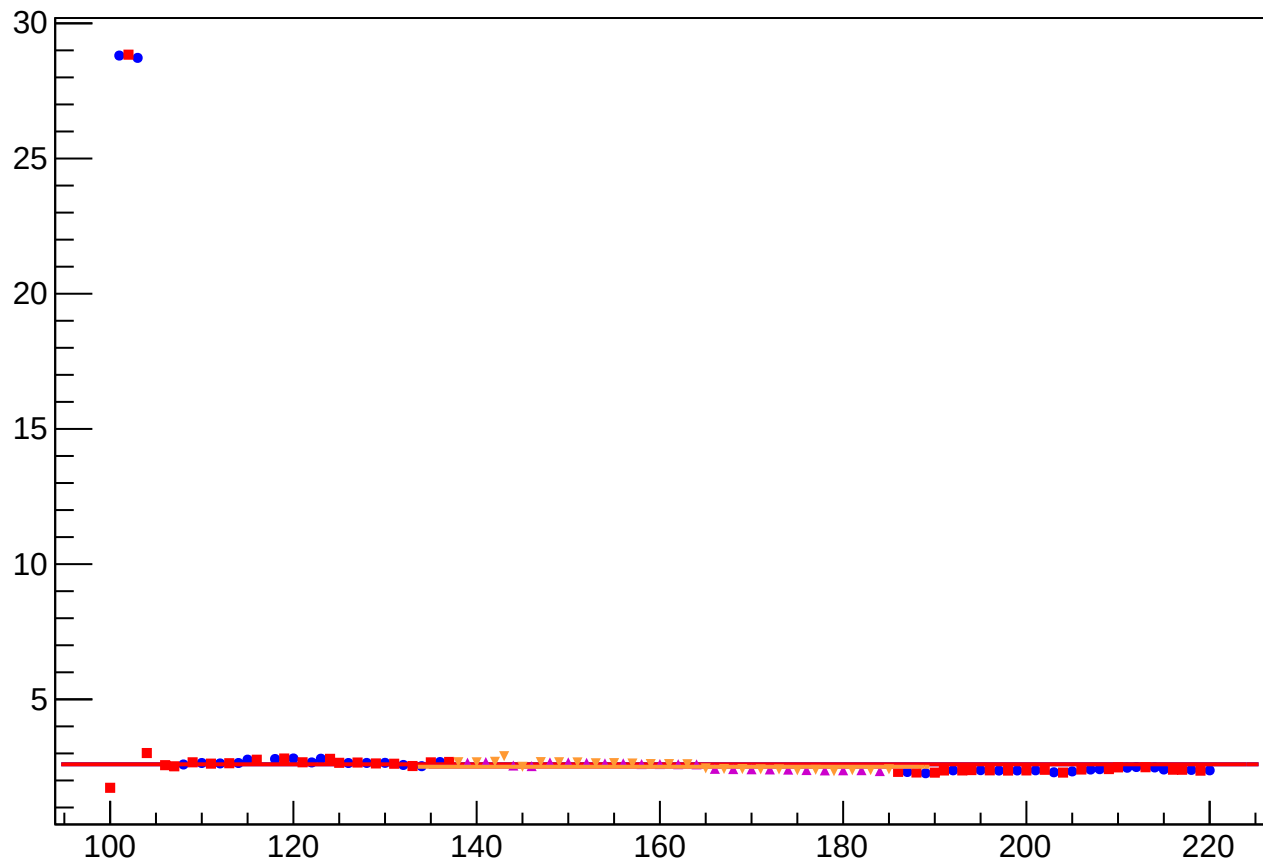
Right: 0.020+/-0.000 χ^2/NDF : 15345052.5/70

In: 0.019+/-0.000 χ^2/NDF : 8266932.4/56

Out: 0.020+/-0.000 χ^2/NDF : 8092677.9/61

All: 0.020+/-0.000 χ^2/NDF : 16361747.8/118

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.599+/-0.000 χ^2/NDF : 188130355850.4/33

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.598+/-0.000 χ^2/NDF : 96757555515.0/36

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

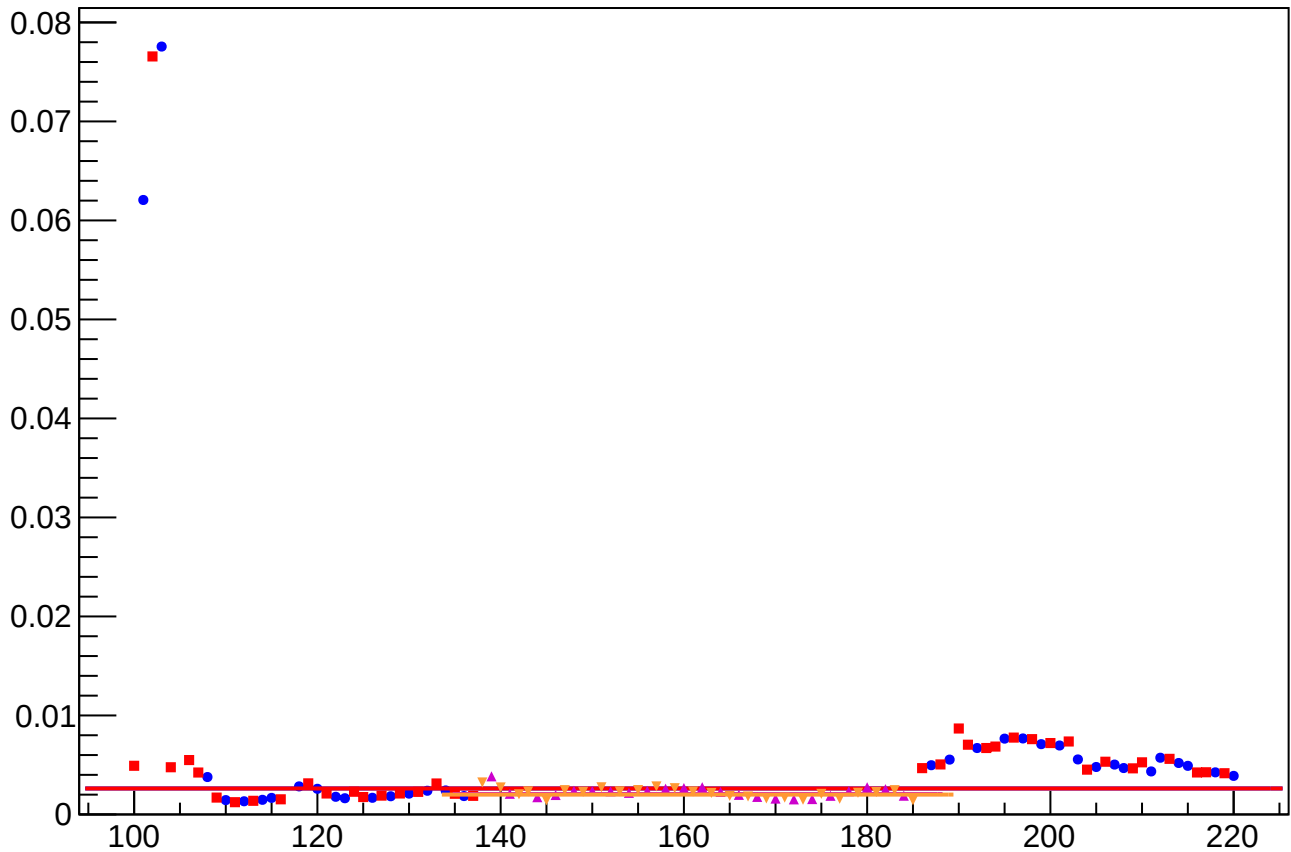
Right: 2.598+/-0.000 χ^2/NDF : 284889586636.1/70

In: 2.538+/-0.000 χ^2/NDF : 241118428100.8/56

Out: 2.537+/-0.000 χ^2/NDF : 171071229853.1/61

All: 2.537+/-0.000 χ^2/NDF : 412193027078.6

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 10979757.7/33

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10987157.4/36

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

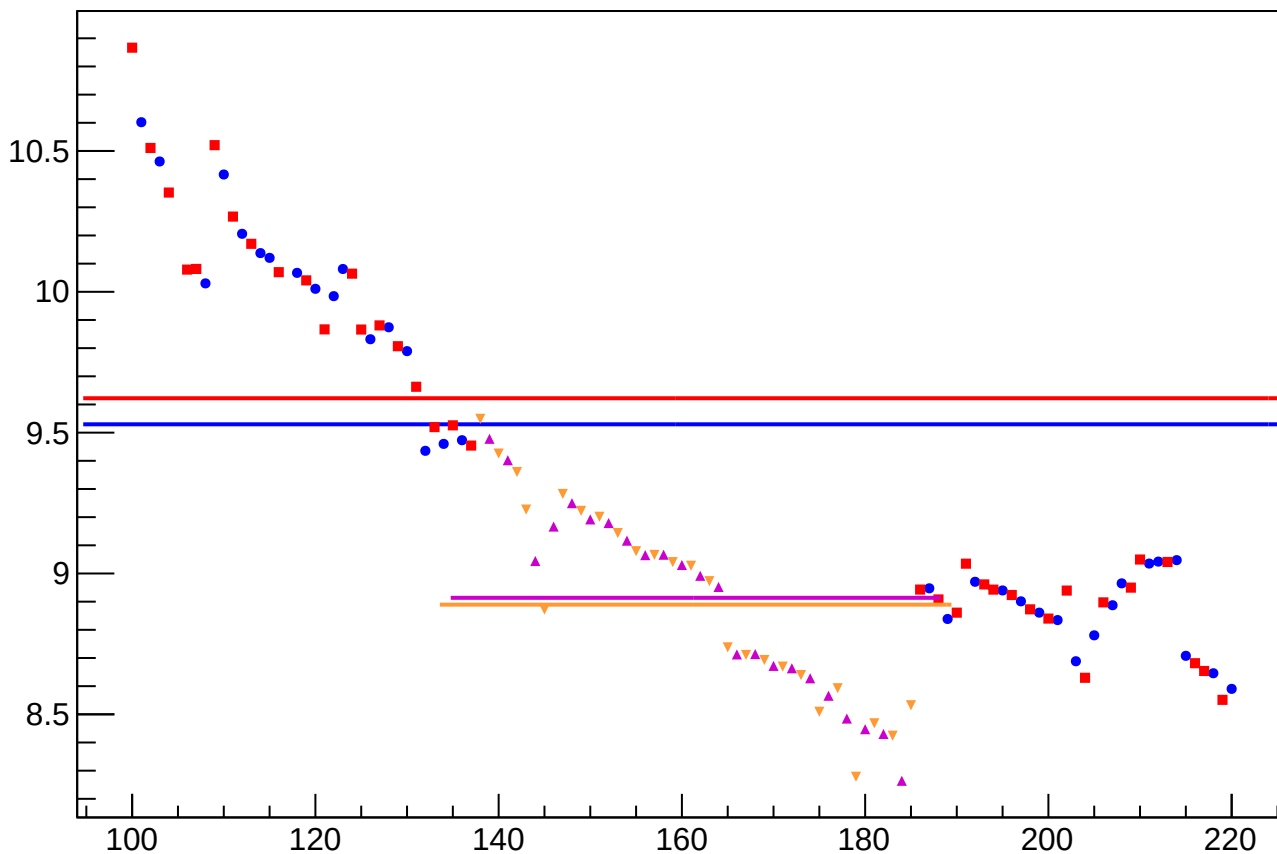
Right: 0.003+/-0.000 χ^2/NDF : 21966924.4/70

In: 0.002+/-0.000 χ^2/NDF :13022182.8/56

Out: 0.002+/-0.000 χ^2/NDF :13379192.2/61

All: 0.002+/-0.000 χ^2/NDF : 26412146.9/118

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.530+/-0.000

χ^2/NDF : 119755305995.4/33

Left Out: 8.889+/-0.000

χ^2/NDF : 34704694045.9/24

Right Out: 9.622+/-0.000

χ^2/NDF : 130355525719.6/36

Left In: 8.914+/-0.000

χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000

χ^2/NDF : 63312247922.6/47

Right: 9.576+/-0.000

χ^2/NDF : 251383864117.6/70

In: 9.198+/-0.000

χ^2/NDF : 209150774327.6/56

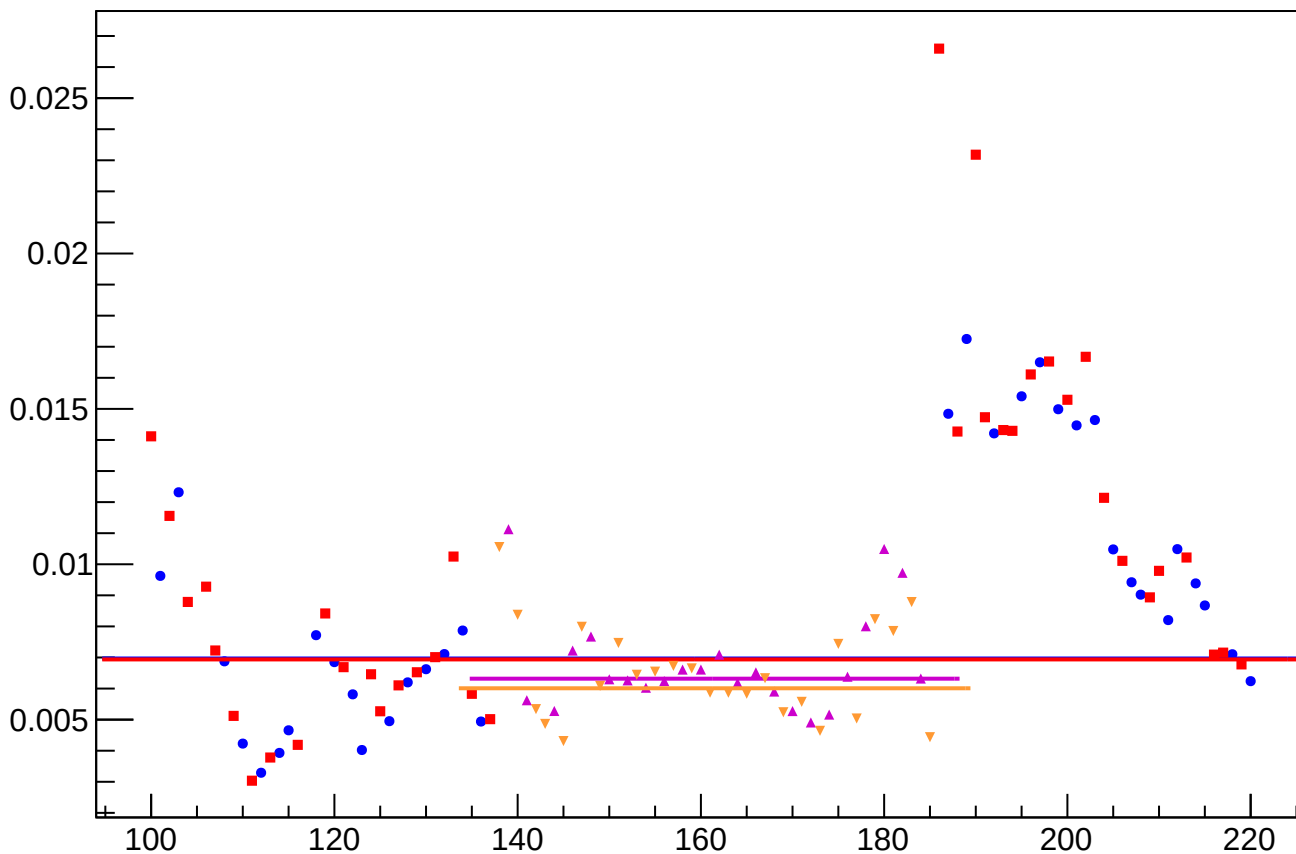
Out: 9.200+/-0.000

χ^2/NDF : 256832457452.8/61

All: 9.199+/-0.000

χ^2/NDF : 465985809765.6

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6117135.7/33

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7553864.3/36

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

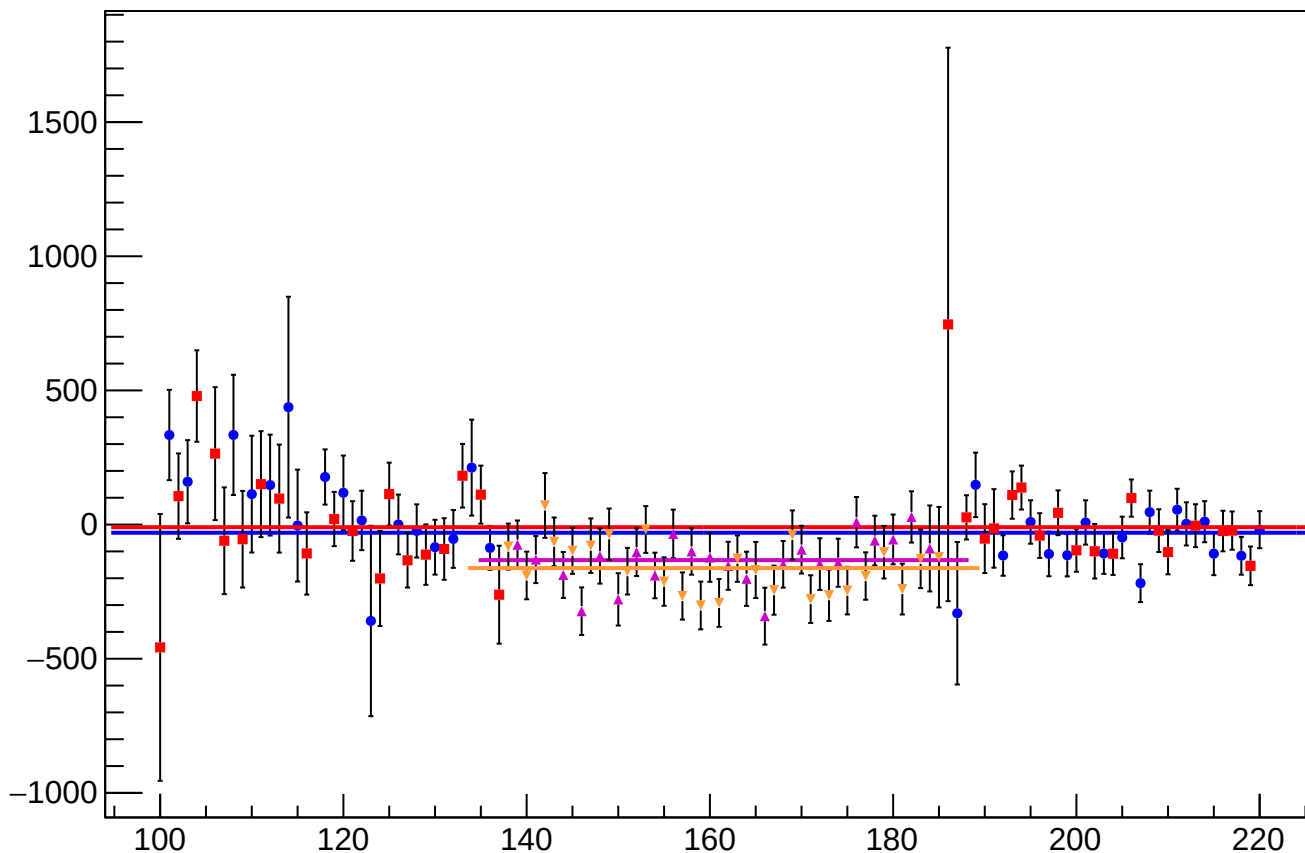
Right: 0.007+/-0.000 χ^2/NDF : 13671262.4/70

In: 0.007+/-0.000 χ^2/NDF :7339434.4/56

Out: 0.006+/-0.000 χ^2/NDF :9160950.6/61

All: 0.007+/-0.000 χ^2/NDF : 16531186.8/118

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -30.367 ± 16.732 $\chi^2/\text{NDF}: 40.9/33$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -9.790 ± 17.066 $\chi^2/\text{NDF}: 41.0/36$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

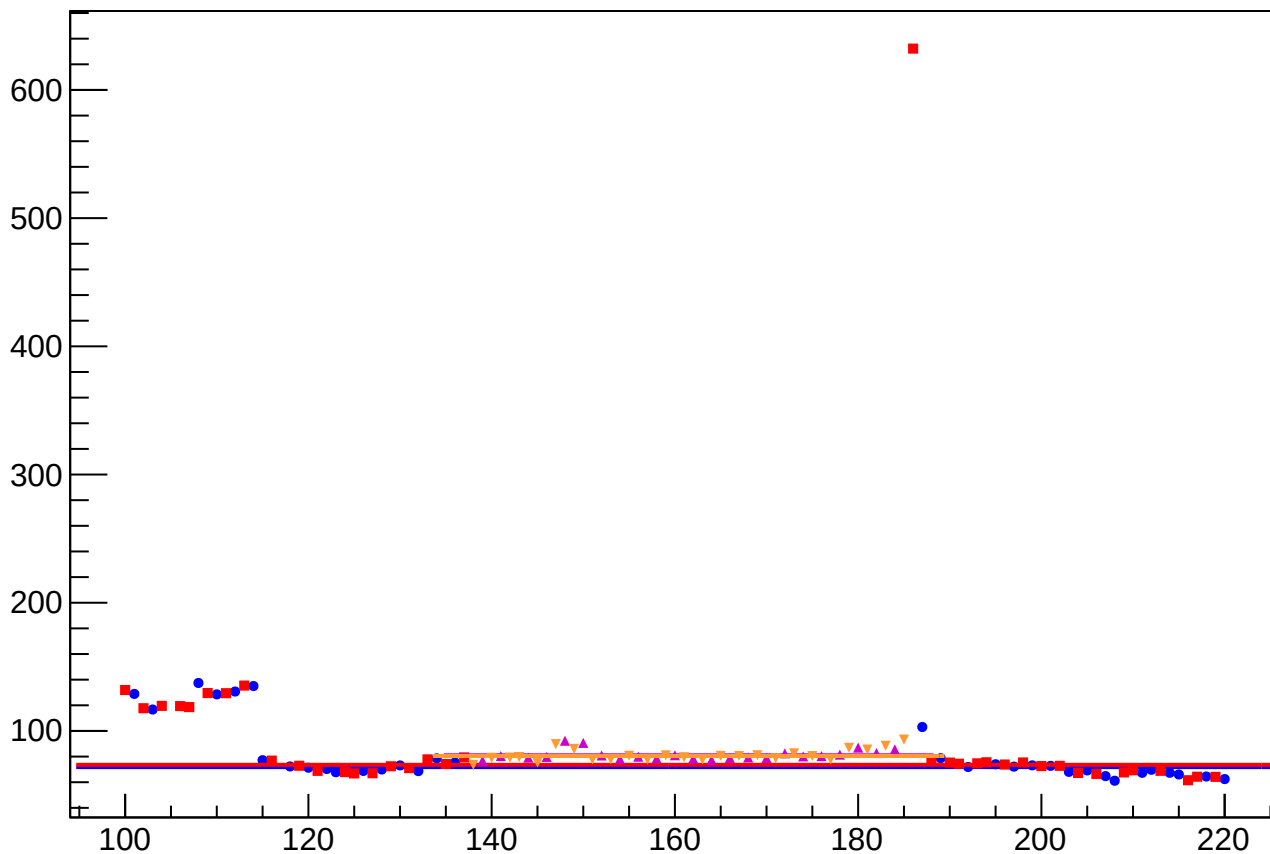
Right: -20.282 ± 11.948 $\chi^2/\text{NDF}: 82.7/70$

In: -73.949 ± 12.671 $\chi^2/\text{NDF}: 77.6/56$

Out: -78.850 ± 12.619 $\chi^2/\text{NDF}: 102.8/61$

All: -76.410 ± 8.942 $\chi^2/\text{NDF}: 180.5/118$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 71.794 $\pm$ 0.012 χ^2 /NDF: 1144209.5/33

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 73.583 $\pm$ 0.012 χ^2 /NDF: 1838014.3/36

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

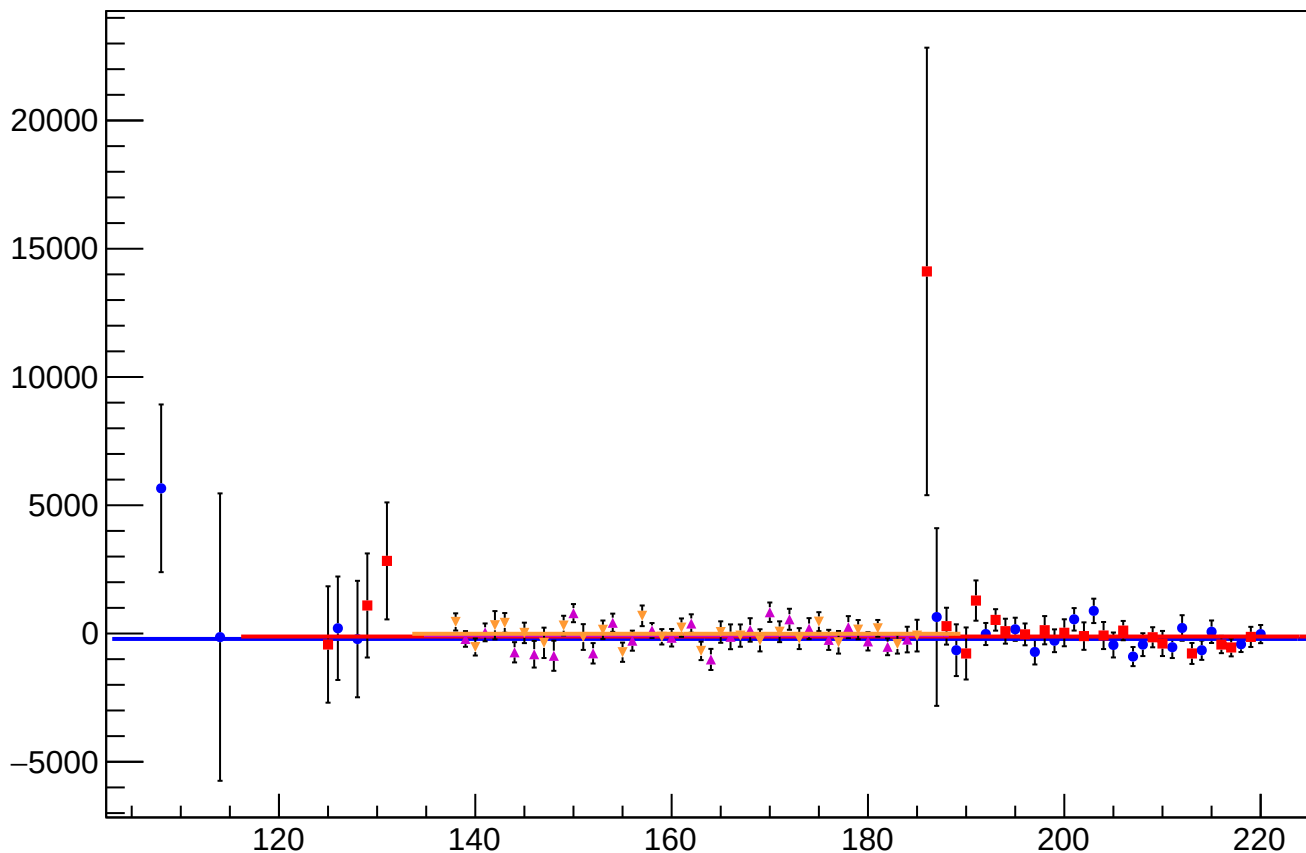
Right: 72.671 $\pm$ 0.008 χ^2 /NDF: 2993431.7/70

In: 75.726 $\pm$ 0.009 χ^2 /NDF: 1475446.2/56

Out: 76.699 $\pm$ 0.009 χ^2 /NDF: 2075085.4/61

All: 76.215 $\pm$ 0.006 χ^2 /NDF: 3556455.3/118

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -211.409 ± 106.567 $\chi^2/\text{NDF}: 21.6/20$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: -117.508 ± 110.435 $\chi^2/\text{NDF}: 17.2/20$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

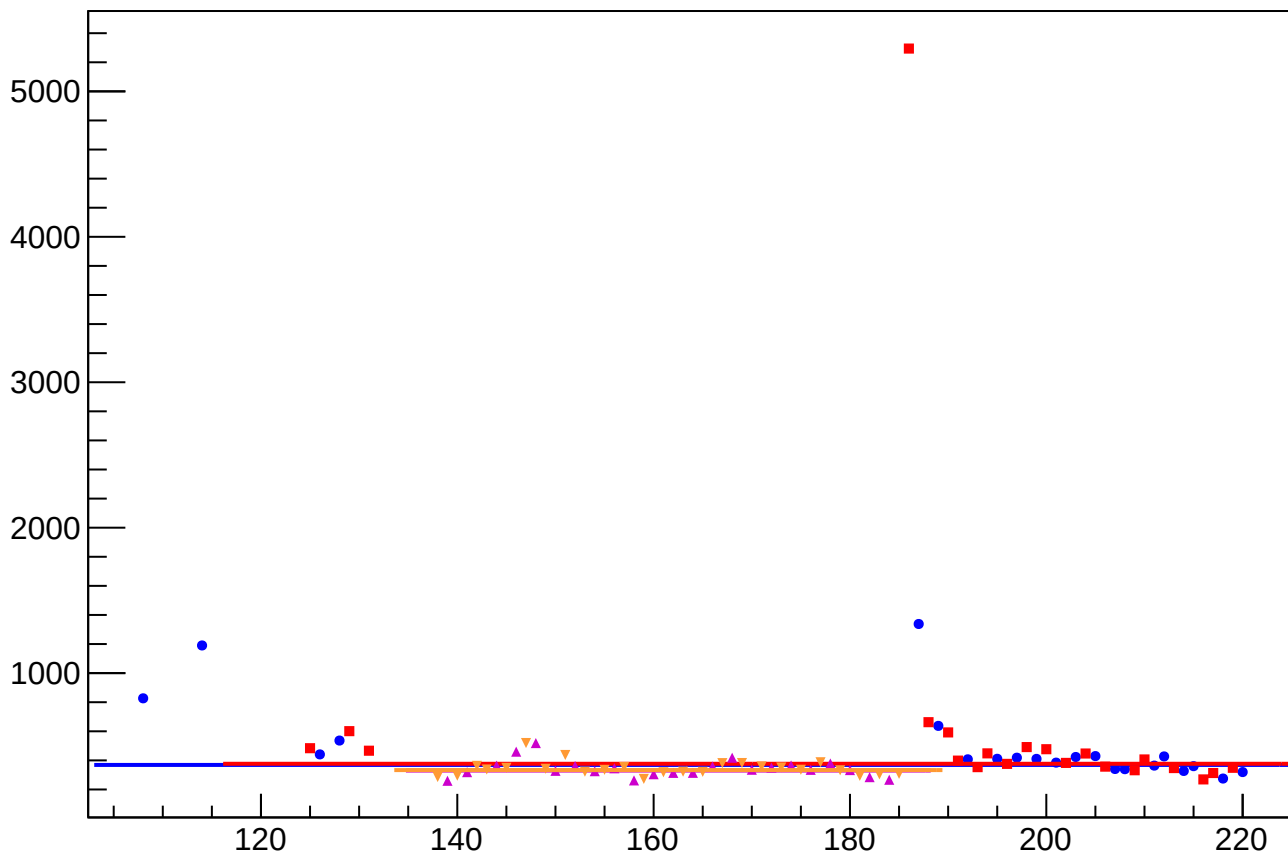
Right: -166.132 ± 76.685 $\chi^2/\text{NDF}: 39.2/41$

In: -117.548 ± 64.002 $\chi^2/\text{NDF}: 60.2/43$

Out: -46.344 ± 63.923 $\chi^2/\text{NDF}: 40.4/45$

All: -81.902 ± 45.229 $\chi^2/\text{NDF}: 101.2/89$

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 368.780+/-0.075 χ^2/NDF : 827020.8/20

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 376.710+/-0.078 χ^2/NDF : 1650929.8/20

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

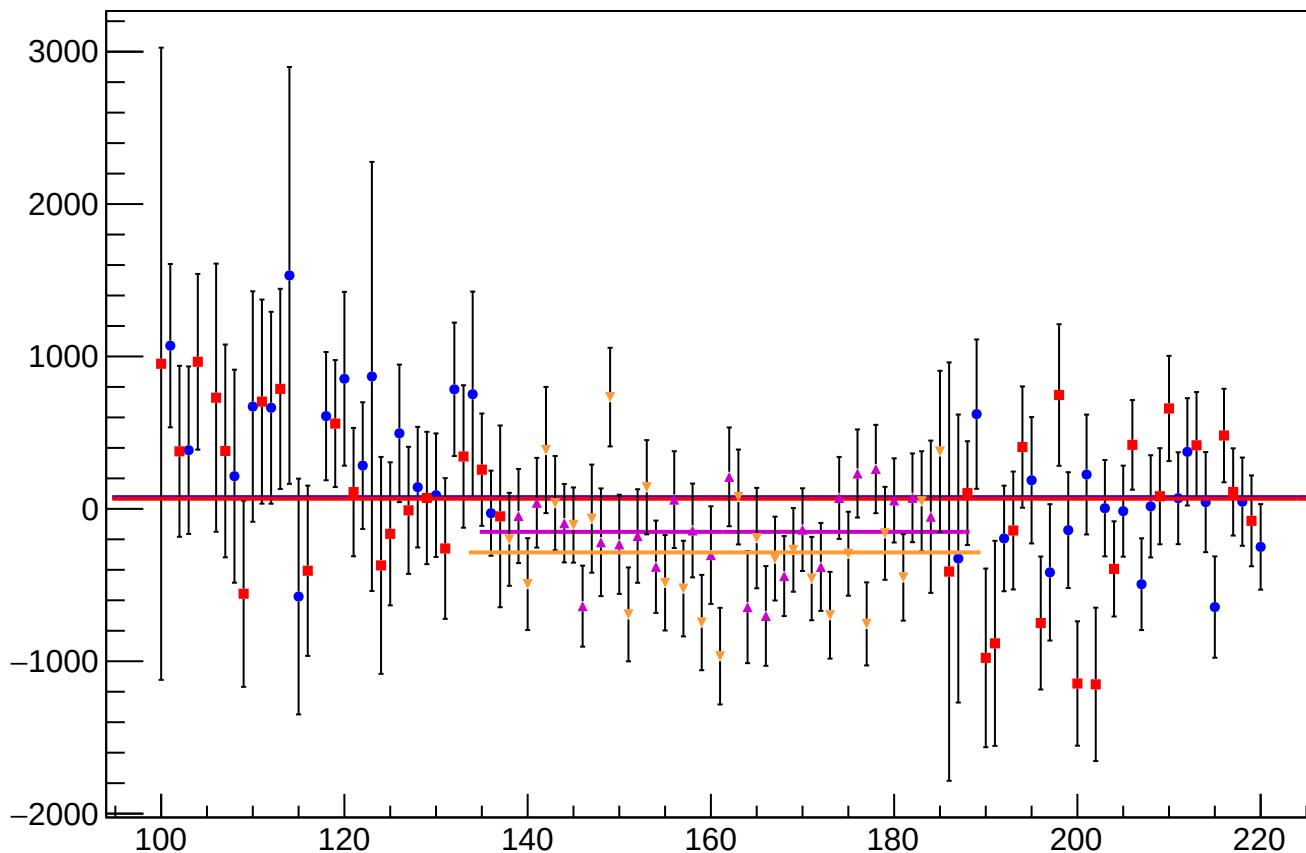
Right: 372.604+/-0.054 χ^2/NDF : 2483290.5/41

In: 343.979+/-0.045 χ^2/NDF : 1792436.1/43

Out: 347.800+/-0.045 χ^2/NDF : 2449172.9/45

All: 345.892+/-0.032 χ^2/NDF : 4245178.4/89

reg_asym_sam2_mean vs Slug, Sign Corrected

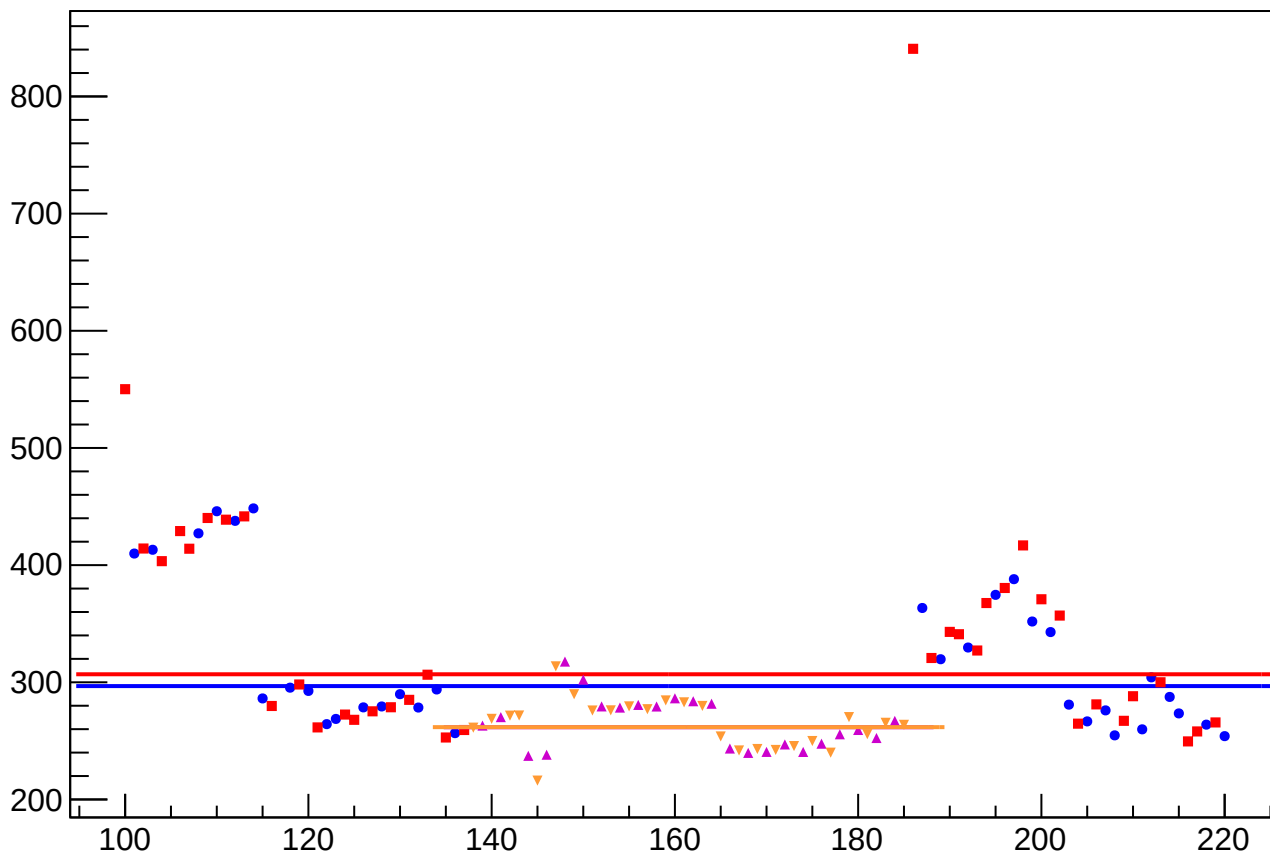


Right In: 76.546 ± 69.180 $\chi^2/\text{NDF}: 30.1/33$
 Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$
 Right Out: 66.573 ± 71.024 $\chi^2/\text{NDF}: 47.1/36$
 Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$
 Right: 71.691 ± 49.557 $\chi^2/\text{NDF}: 77.2/70$
 In: -48.125 ± 46.506 $\chi^2/\text{NDF}: 54.8/56$
 Out: -136.080 ± 46.317 $\chi^2/\text{NDF}: 97.8/61$

All: -92.282 ± 32.817 $\chi^2/\text{NDF}: 154.4/118$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 296.765+/-0.049 χ^2/NDF : 953772.4/33

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 306.851+/-0.050 χ^2/NDF : 1491637.0/36

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

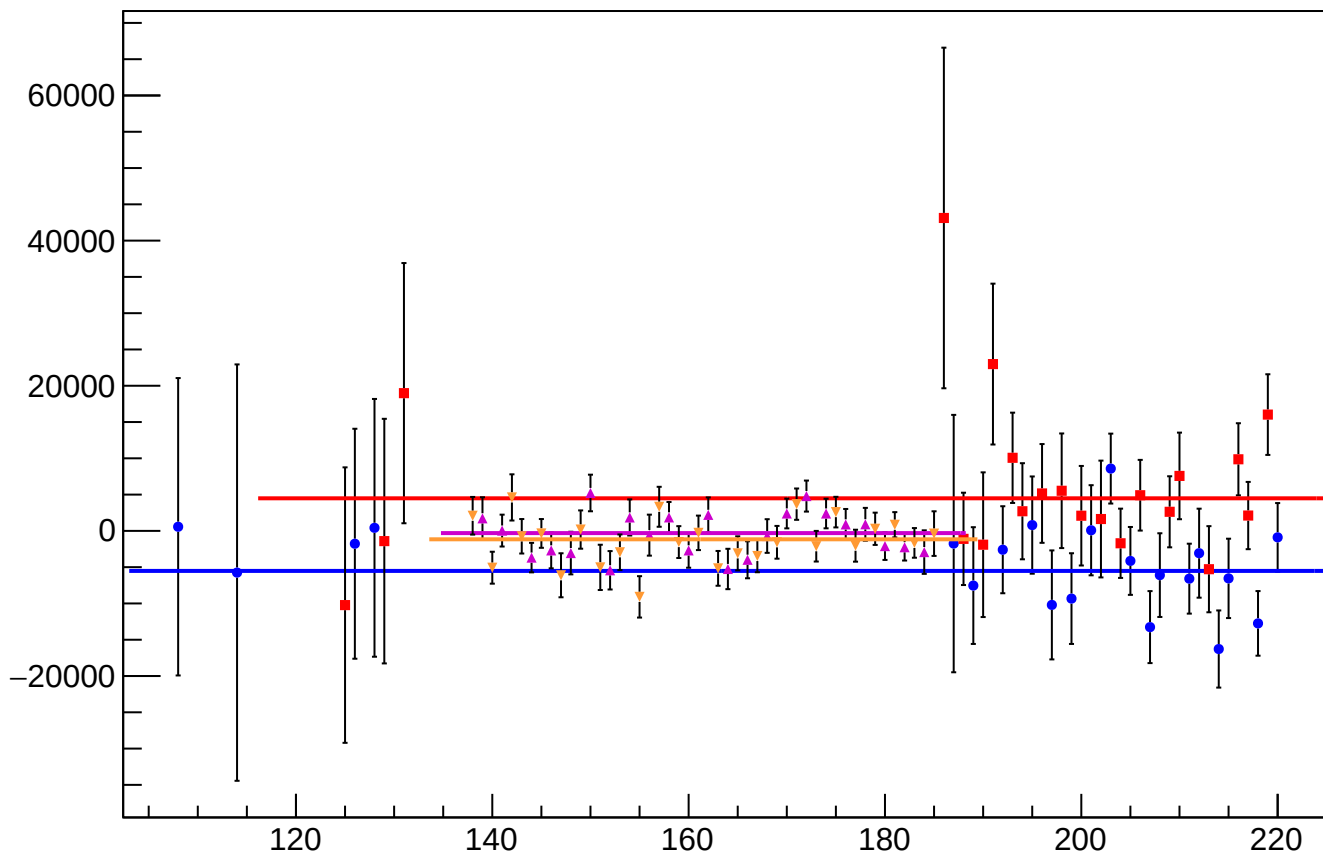
Right: 301.675+/-0.035 χ^2/NDF : 2466104.4/70

In: 277.511+/-0.033 χ^2/NDF : 1464655.4/56

Out: 280.913+/-0.033 χ^2/NDF : 2188941.8/61

All: 279.219+/-0.023 χ^2/NDF : 3658969.9/118

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5516.434 $\pm$ 1358.299 χ^2/NDF : 22.1/20

Left Out: -1161.443 $\pm$ 469.036 χ^2/NDF : 38.8/24

Right Out: 4488.275 $\pm$ 1442.281 χ^2/NDF : 19.8/20

Left In: -304.366 $\pm$ 483.778 χ^2/NDF : 35.4/22

Left: -746.162 $\pm$ 336.750 χ^2/NDF : 75.7/47

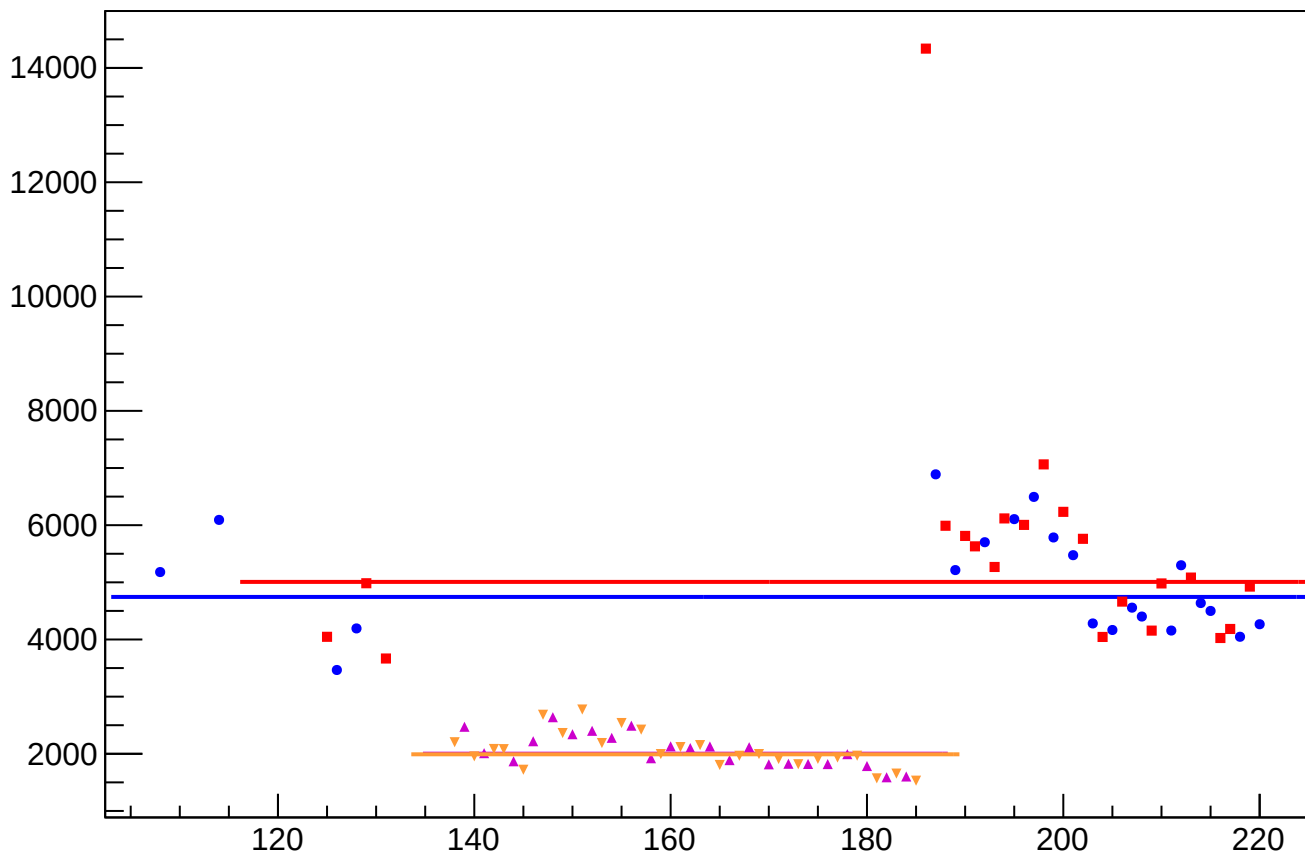
Right: -813.824 $\pm$ 988.820 χ^2/NDF : 67.4/41

In: -891.104 $\pm$ 455.735 χ^2/NDF : 70.5/43

Out: -621.087 $\pm$ 446.043 χ^2/NDF : 72.4/45

All: -753.194 $\pm$ 318.771 χ^2/NDF : 143.1/89

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4744.580+/-0.960 χ^2/NDF : 561087.2/20

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5007.588+/-1.020 χ^2/NDF : 1013122.3/20

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

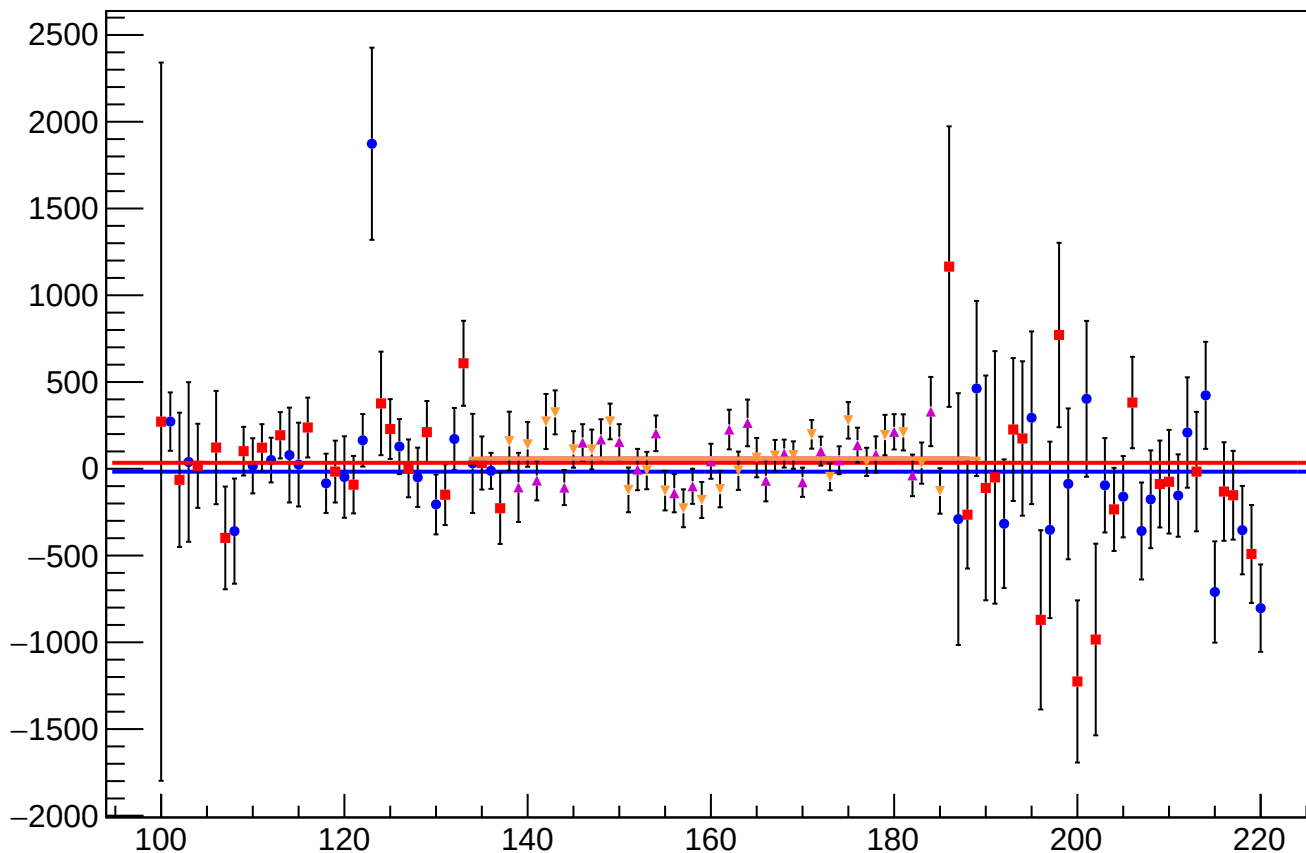
Right: 4868.204+/-0.699 χ^2/NDF : 1609455.5/41

In: 2310.877+/-0.322 χ^2/NDF : 8382085.2/43

Out: 2279.610+/-0.315 χ^2/NDF : 9651168.3/45

All: 2294.907+/-0.225 χ^2/NDF : 18038061.8/86

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: -16.678 ± 37.940 $\chi^2/\text{NDF}: 46.9/33$

Left Out: 58.983 ± 21.137 $\chi^2/\text{NDF}: 46.9/24$

Right Out: 34.610 ± 38.194 $\chi^2/\text{NDF}: 44.9/36$

Left In: 59.235 ± 21.921 $\chi^2/\text{NDF}: 29.4/22$

Left: 59.104 ± 15.216 $\chi^2/\text{NDF}: 76.3/47$

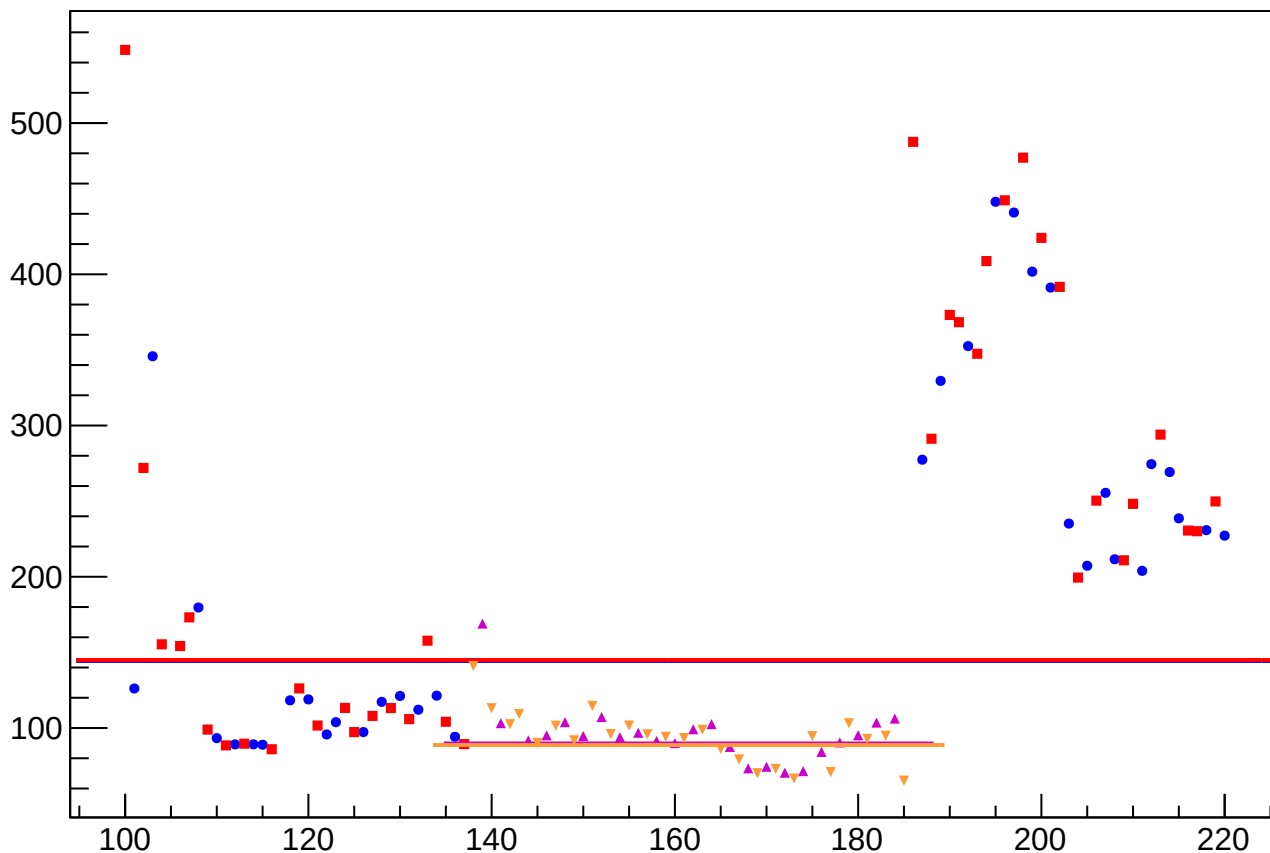
Right: 8.795 ± 26.917 $\chi^2/\text{NDF}: 92.7/70$

In: 40.235 ± 18.981 $\chi^2/\text{NDF}: 79.3/56$

Out: 53.268 ± 18.494 $\chi^2/\text{NDF}: 92.1/61$

All: 46.921 ± 13.246 $\chi^2/\text{NDF}: 171.6/118$

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 144.350 $\pm$ 0.027 χ^2 /NDF: 8229129.5/33

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 144.963 $\pm$ 0.027 χ^2 /NDF: 9216068.1/36

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

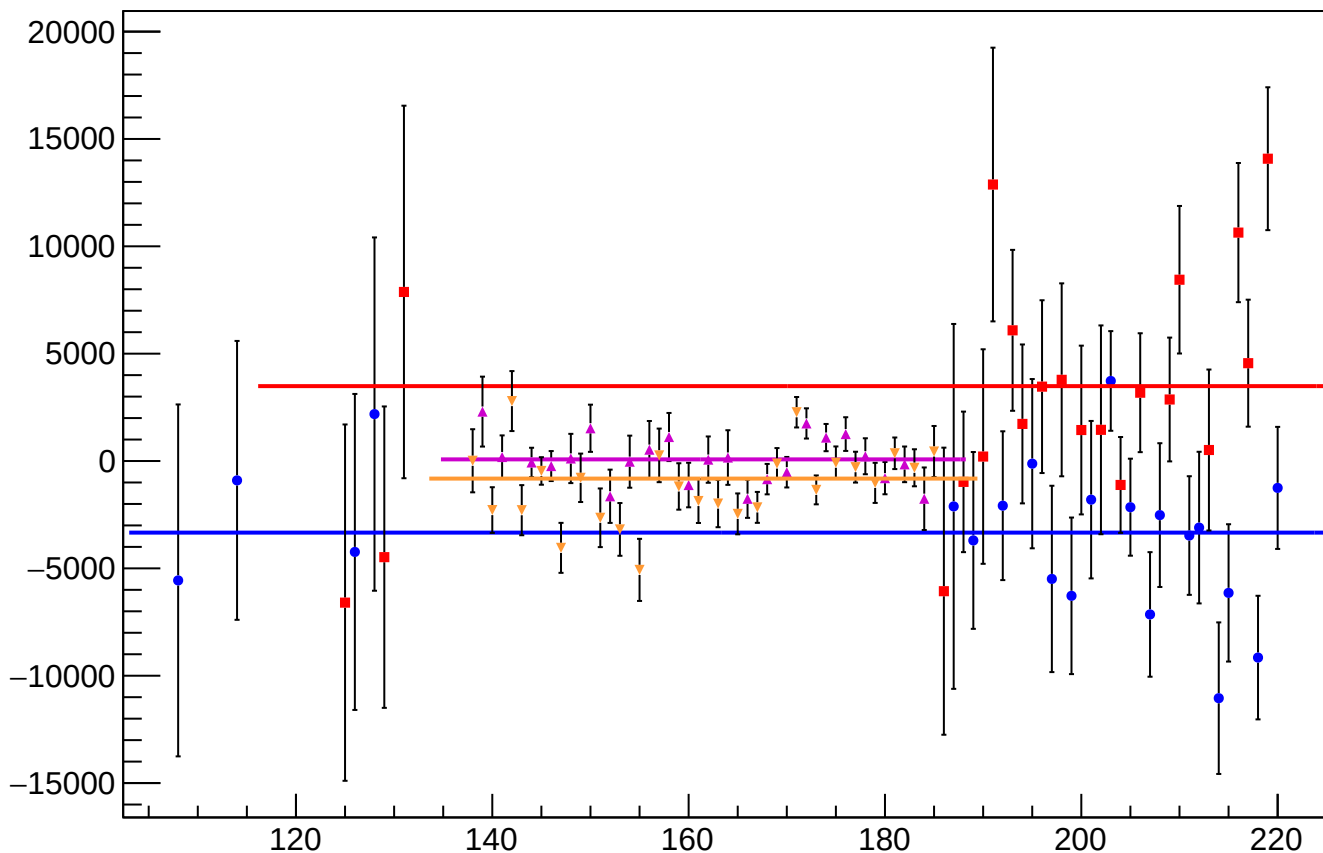
Right: 144.654 $\pm$ 0.019 χ^2 /NDF: 17445456.4/70

In: 103.427 $\pm$ 0.013 χ^2 /NDF:12218542.7/56

Out: 101.928 $\pm$ 0.013 χ^2 /NDF:13612038.0/61

All: 102.658 $\pm$ 0.009 χ^2 /NDF: 25836977.2/117

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3334.880 $\pm$ 762.891 χ^2 /NDF: 24.1/20

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 3487.823 $\pm$ 816.987 χ^2 /NDF: 32.8/20

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

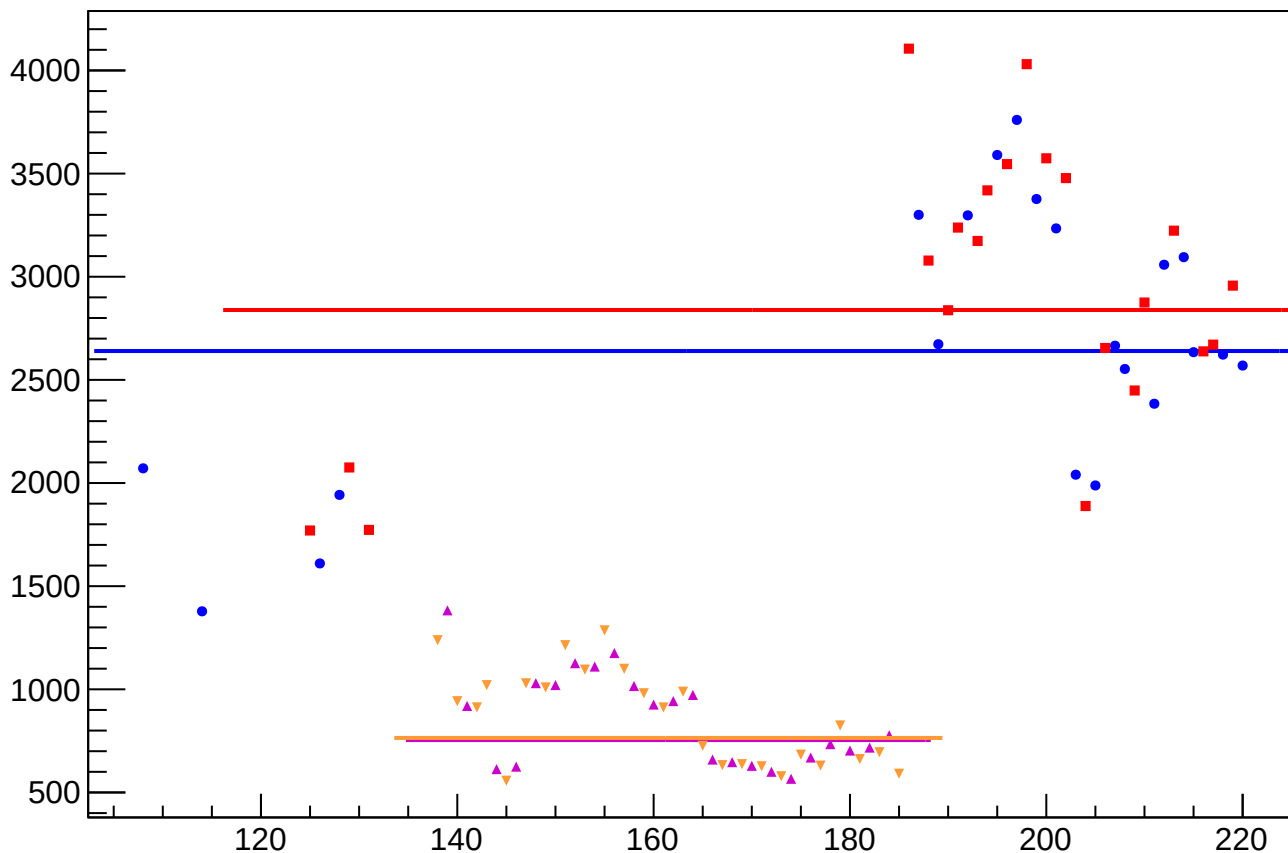
Right: -156.870 $\pm$ 557.589 χ^2 /NDF: 94.2/41

In: -116.450 $\pm$ 181.303 χ^2 /NDF:71.2/43

Out: -609.974 $\pm$ 179.935 χ^2 /NDF:127.5/45

All: -365.082 $\pm$ 127.714 χ^2 /NDF: 202.4/89

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2639.898 $\pm$ 0.539 χ^2 /NDF: 987740.4/20

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2838.779 $\pm$ 0.578 χ^2 /NDF: 995452.8/20

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

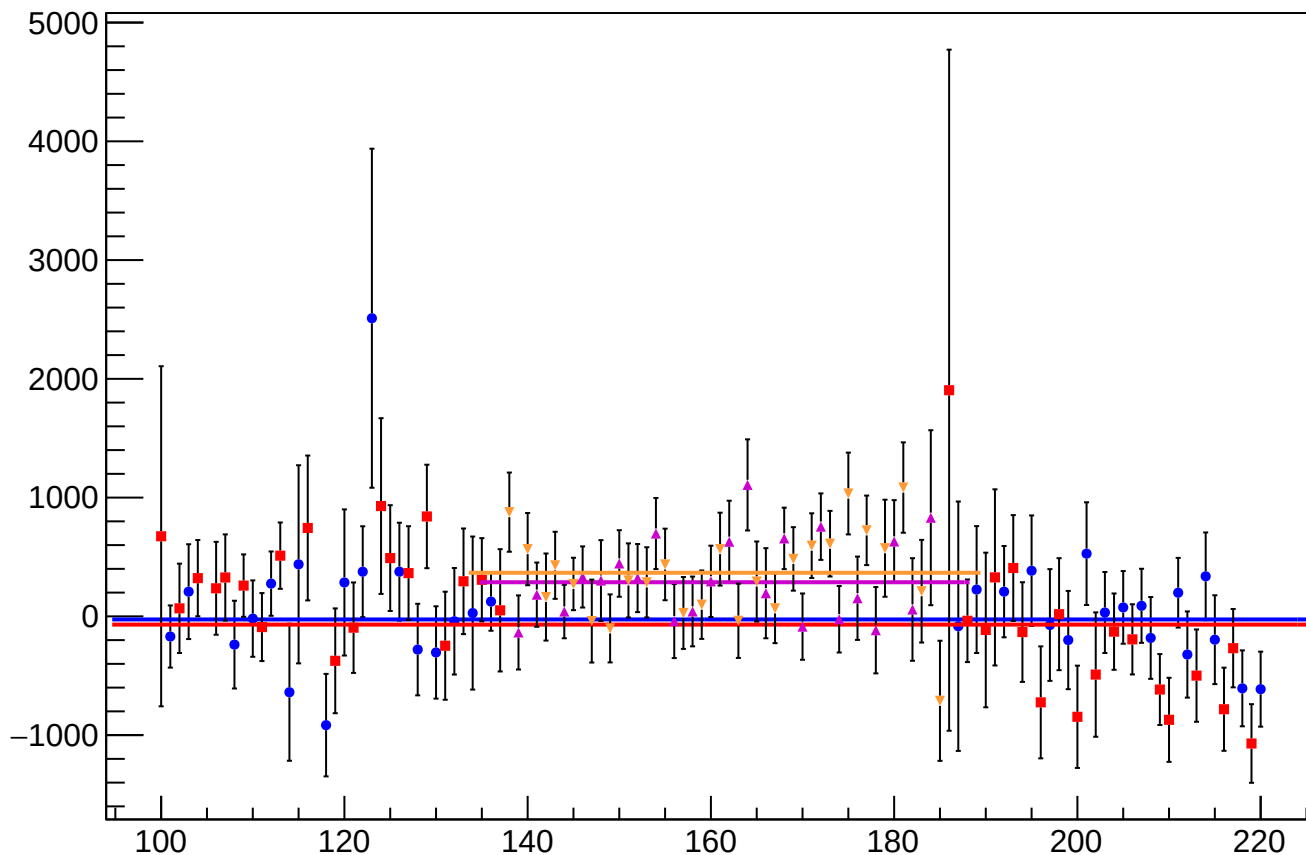
Right: 2732.536 $\pm$ 0.394 χ^2 /NDF: 2046506.0/41

In: 860.539 $\pm$ 0.128 χ^2 /NDF: 14532498.4/43

Out: 864.906 $\pm$ 0.127 χ^2 /NDF: 15581090.1/45

All: 862.739 $\pm$ 0.090 χ^2 /NDF: 30114173.1/89

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -26.052+/-64.893 χ^2/NDF : 27.6/33

Left Out: 367.028+/-61.943 χ^2/NDF :28.2/24

Right Out: -69.459+/-64.456 χ^2/NDF : 54.2/36

Left In: 287.246+/-64.141 χ^2/NDF :23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

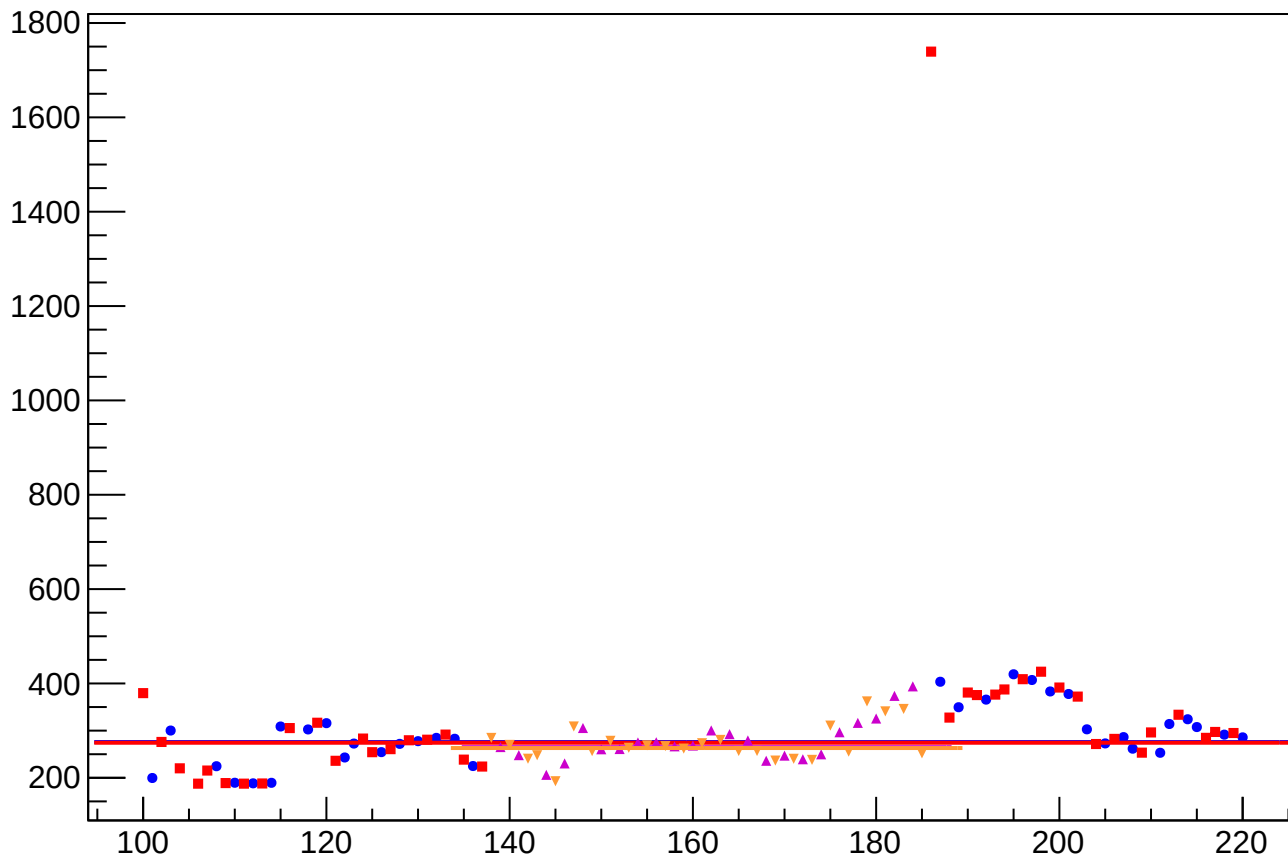
Right: -47.902+/-45.731 χ^2/NDF : 82.0/70

In: 132.423+/-45.618 χ^2/NDF :63.2/56

Out: 157.456+/-44.662 χ^2/NDF :106.3/61

All: 145.205+/-31.913 χ^2/NDF : 169.7/118

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 275.767 $\pm$ 0.046 χ^2 /NDF: 1616818.1/33

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 274.381 $\pm$ 0.046 χ^2 /NDF: 2478569.9/36

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

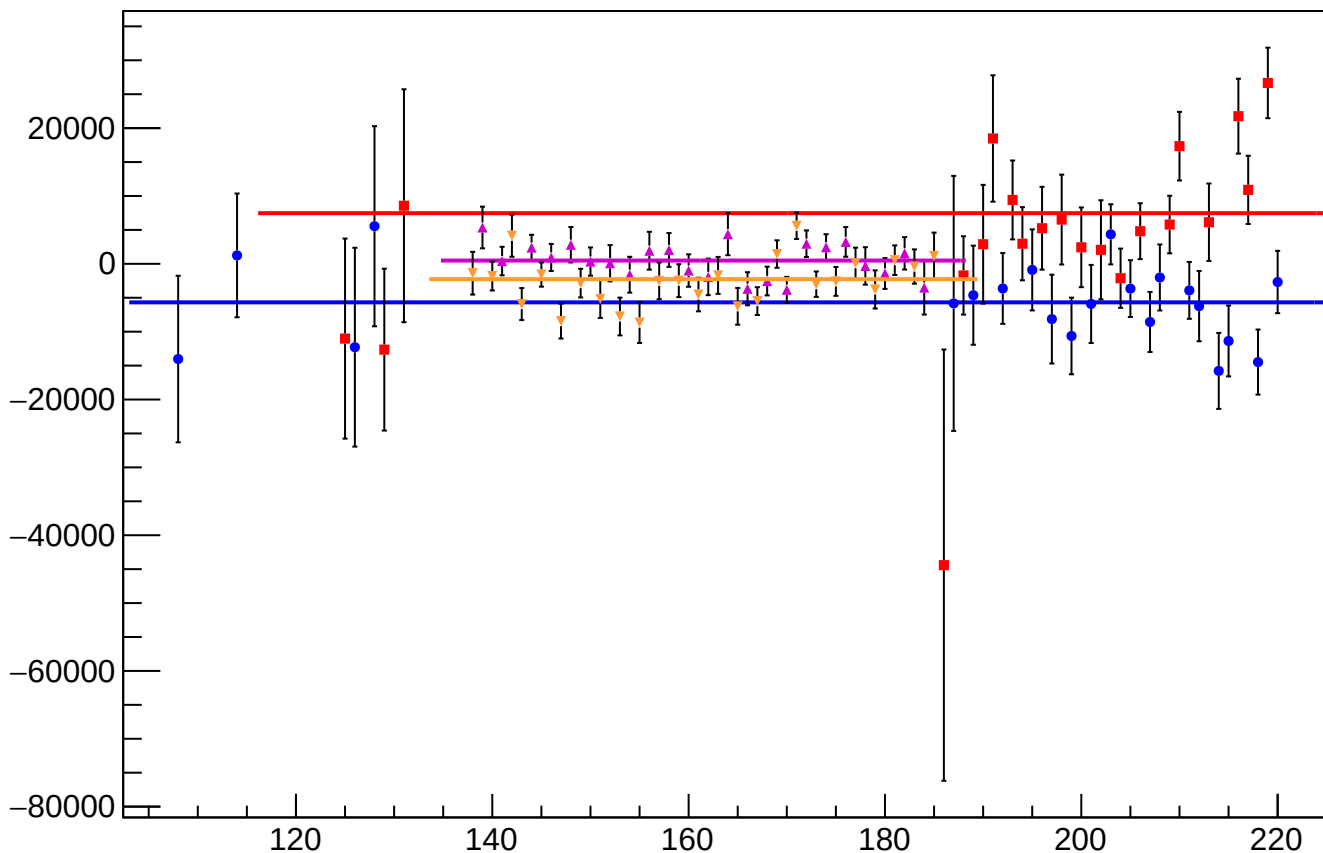
Right: 275.069 $\pm$ 0.032 χ^2 /NDF: 4095847.6/70

In: 270.282 $\pm$ 0.032 χ^2 /NDF: 2254094.5/56

Out: 268.518 $\pm$ 0.032 χ^2 /NDF: 3152628.3/61

All: 269.381 $\pm$ 0.023 χ^2 /NDF: 5408249.9/118

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5677.677 $\pm$ 1236.417 χ^2 /NDF: 18.3/20

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 7468.144 $\pm$ 1315.101 χ^2 /NDF: 43.6/20

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

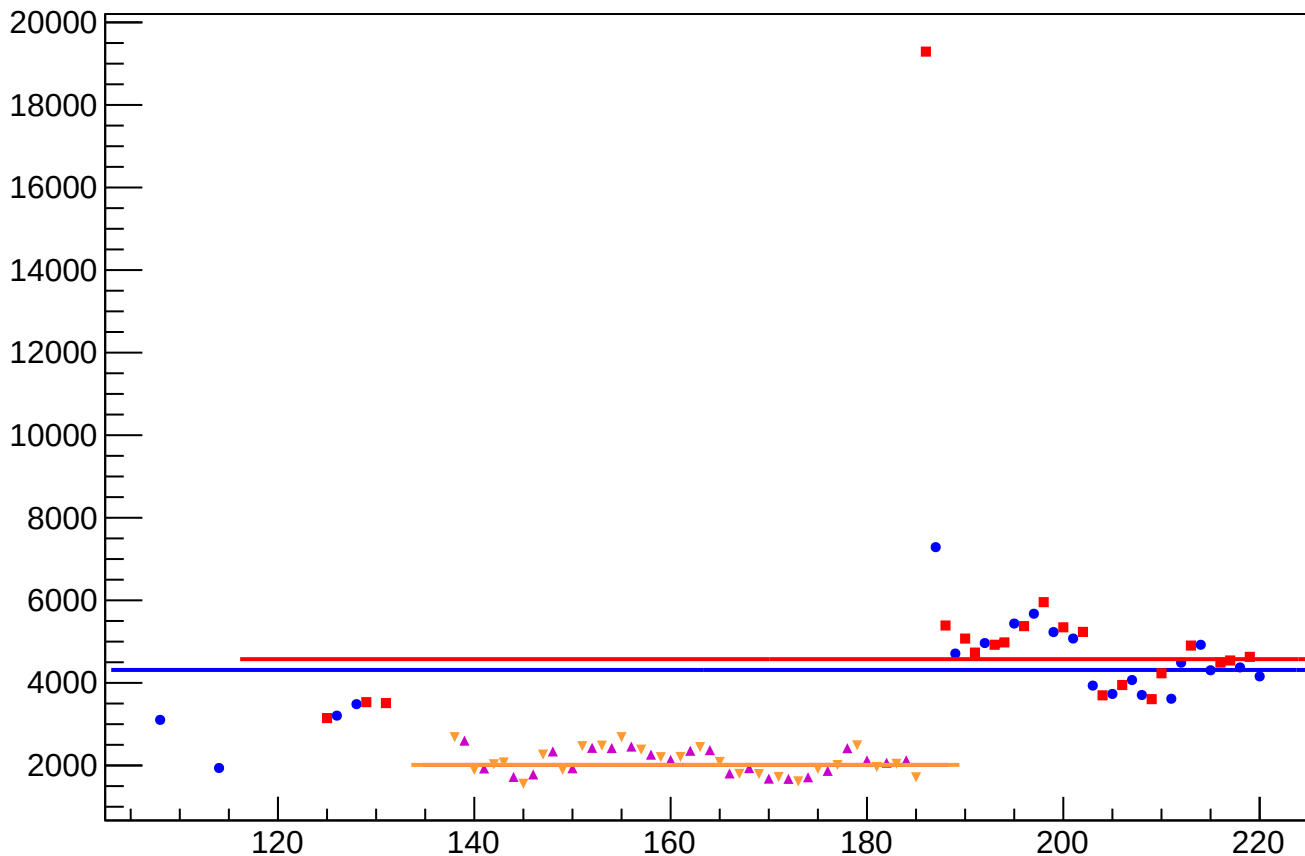
Right: 490.223 $\pm$ 900.812 χ^2 /NDF: 115.0/41

In: -343.539 $\pm$ 453.493 χ^2 /NDF:64.6/43

Out: -1136.119 $\pm$ 447.031 χ^2 /NDF:144.3/45

All: -745.516 $\pm$ 318.359 χ^2 /NDF: 210.5/89

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4313.659+/-0.874 χ^2/NDF : 679794.0/20

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4575.015+/-0.930 χ^2/NDF : 955730.9/20

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

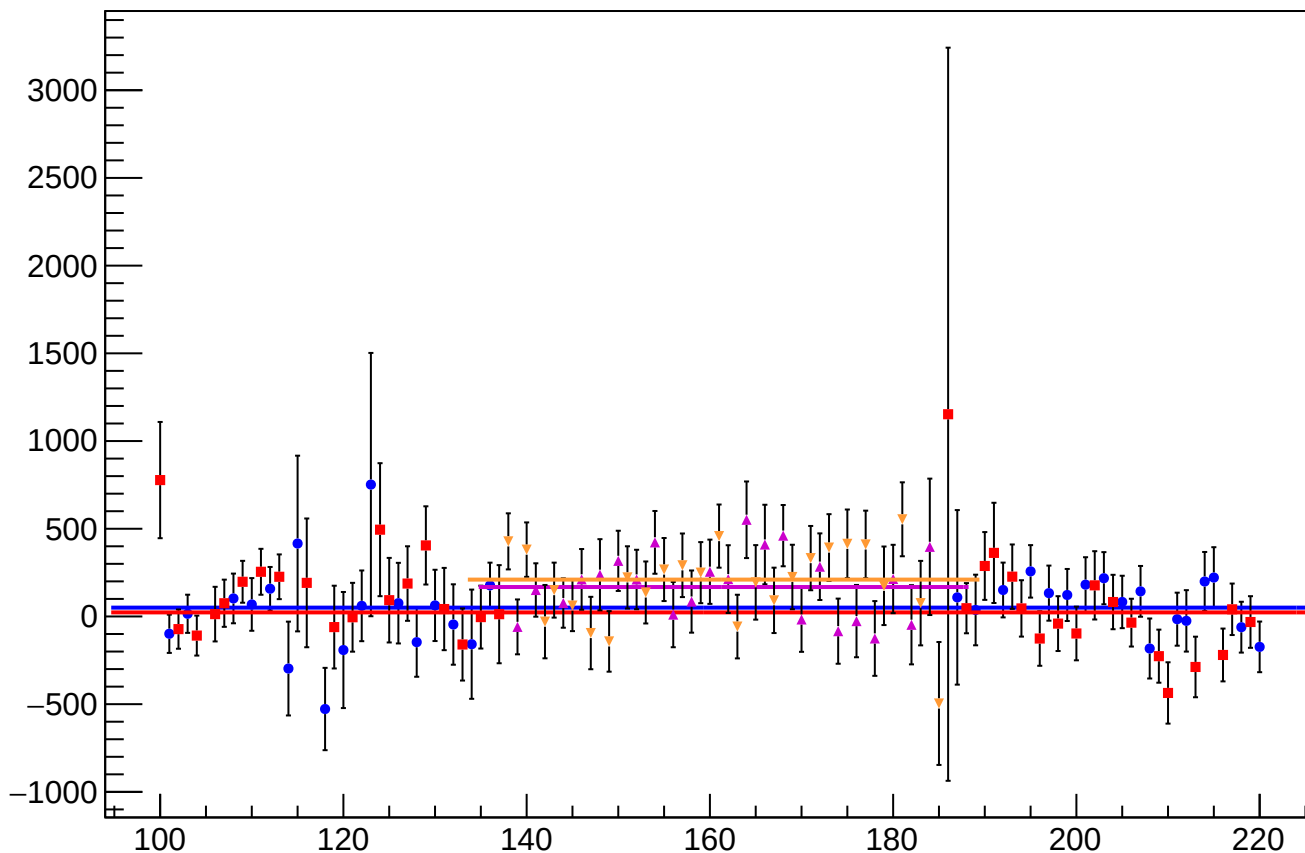
Right: 4436.285+/-0.637 χ^2/NDF : 1677454.0/41

In: 2322.714+/-0.321 χ^2/NDF : 7333786.3/43

Out: 2310.010+/-0.316 χ^2/NDF : 8499110.9/45

All: 2316.271+/-0.225 χ^2/NDF : 15833693.3/86

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 50.334+/-28.735 χ^2/NDF : 27.4/33

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 23.134+/-27.666 χ^2/NDF : 44.7/36

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

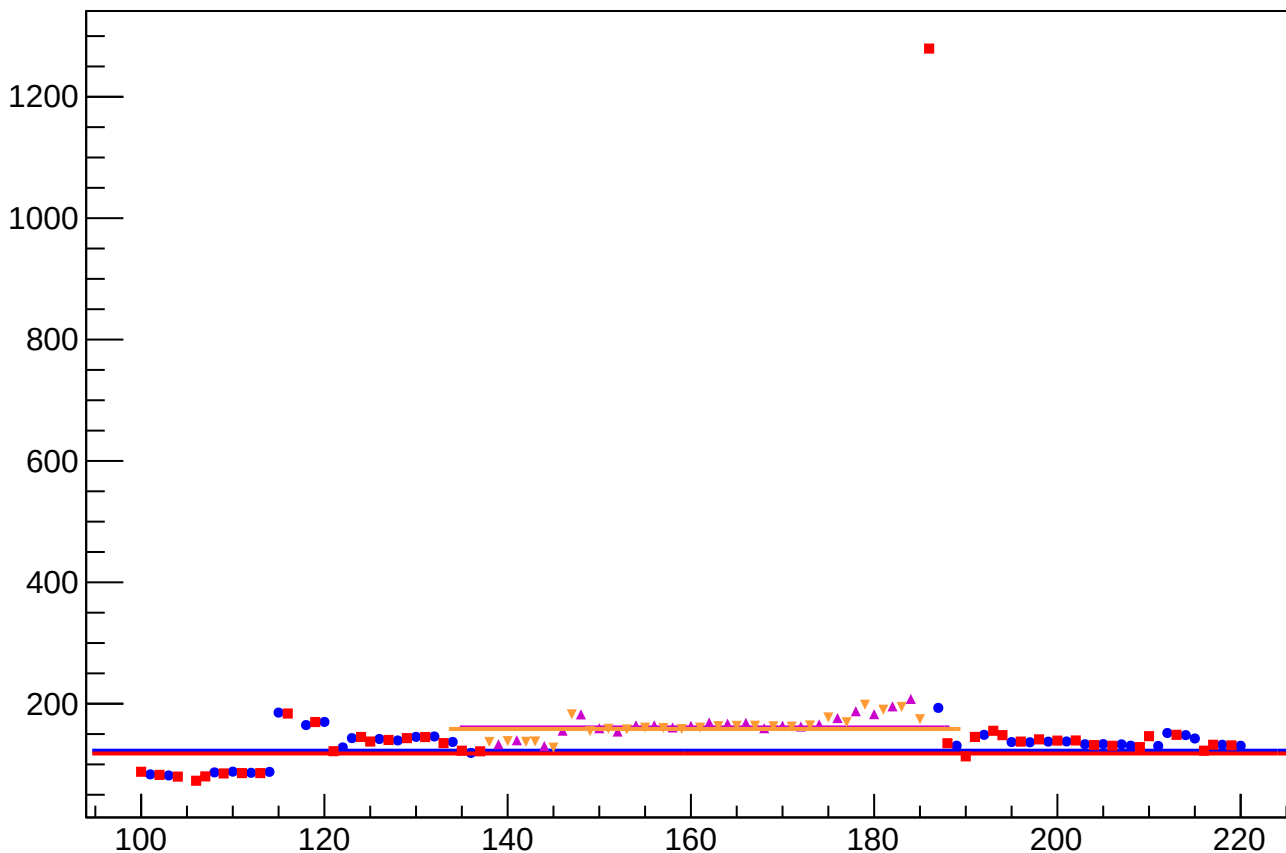
Right: 36.219+/-19.930 χ^2/NDF : 72.6/70

In: 92.064+/-23.075 χ^2/NDF : 54.5/56

Out: 89.961+/-22.177 χ^2/NDF : 88.5/61

All: 90.971+/-15.989 χ^2/NDF : 143.1/118

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 122.593+/-0.020 χ^2/NDF : 1555375.9/33

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 117.979+/-0.020 χ^2/NDF : 2595315.5/36

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

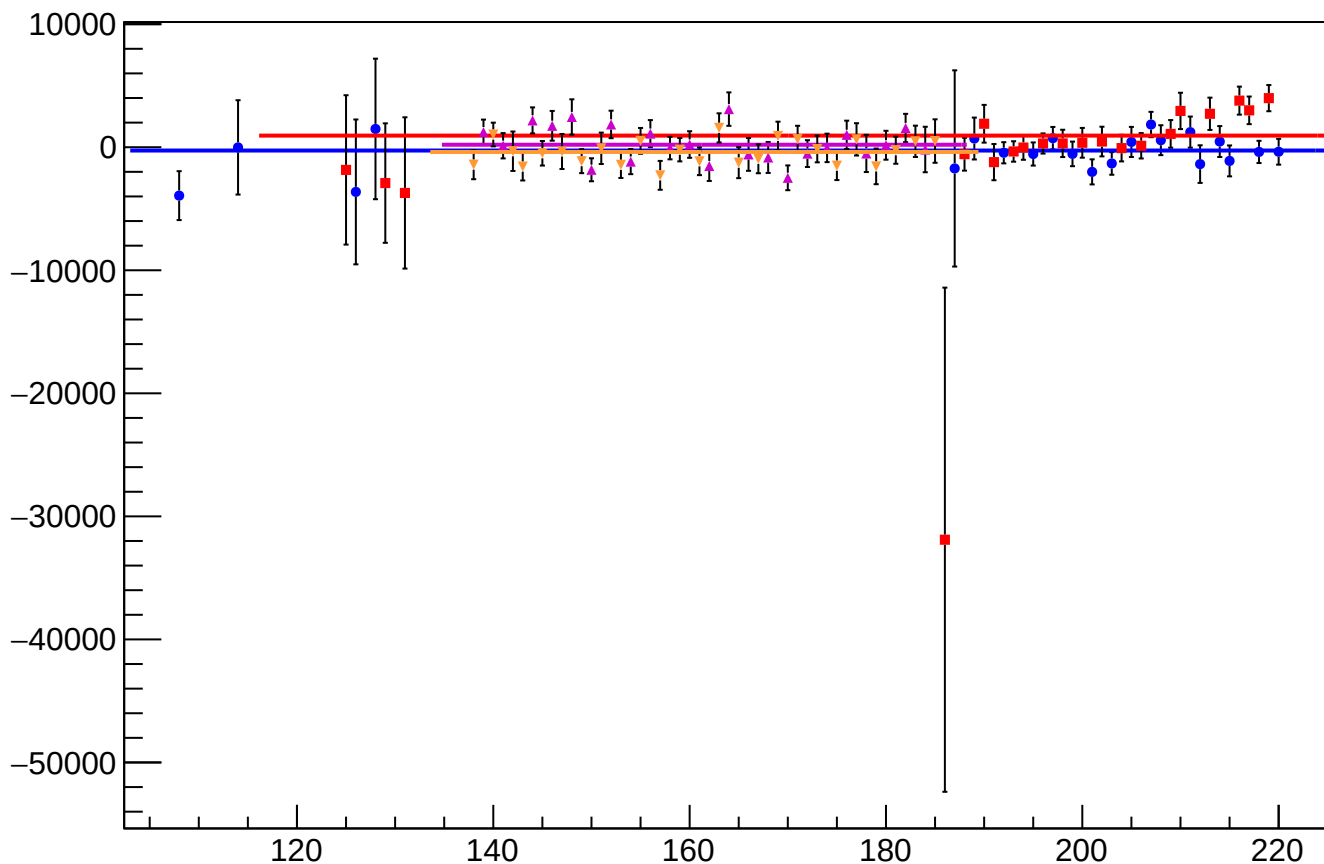
Right: 120.199+/-0.014 χ^2/NDF : 4177451.5/70

In: 136.216+/-0.016 χ^2/NDF : 3200602.3/56

Out: 132.442+/-0.016 χ^2/NDF : 4558653.4/61

All: 134.254+/-0.011 χ^2/NDF : 7787064.5/118

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -268.147 $\pm$ 264.335 χ^2/NDF : 17.6/20

Left Out: -385.018 $\pm$ 231.833 χ^2/NDF : 18.1/24

Right Out: 944.719 $\pm$ 269.628 χ^2/NDF : 35.5/20

Left In: 202.234 $\pm$ 237.460 χ^2/NDF : 35.5/22

Left: -98.432 $\pm$ 165.884 χ^2/NDF : 56.7/47

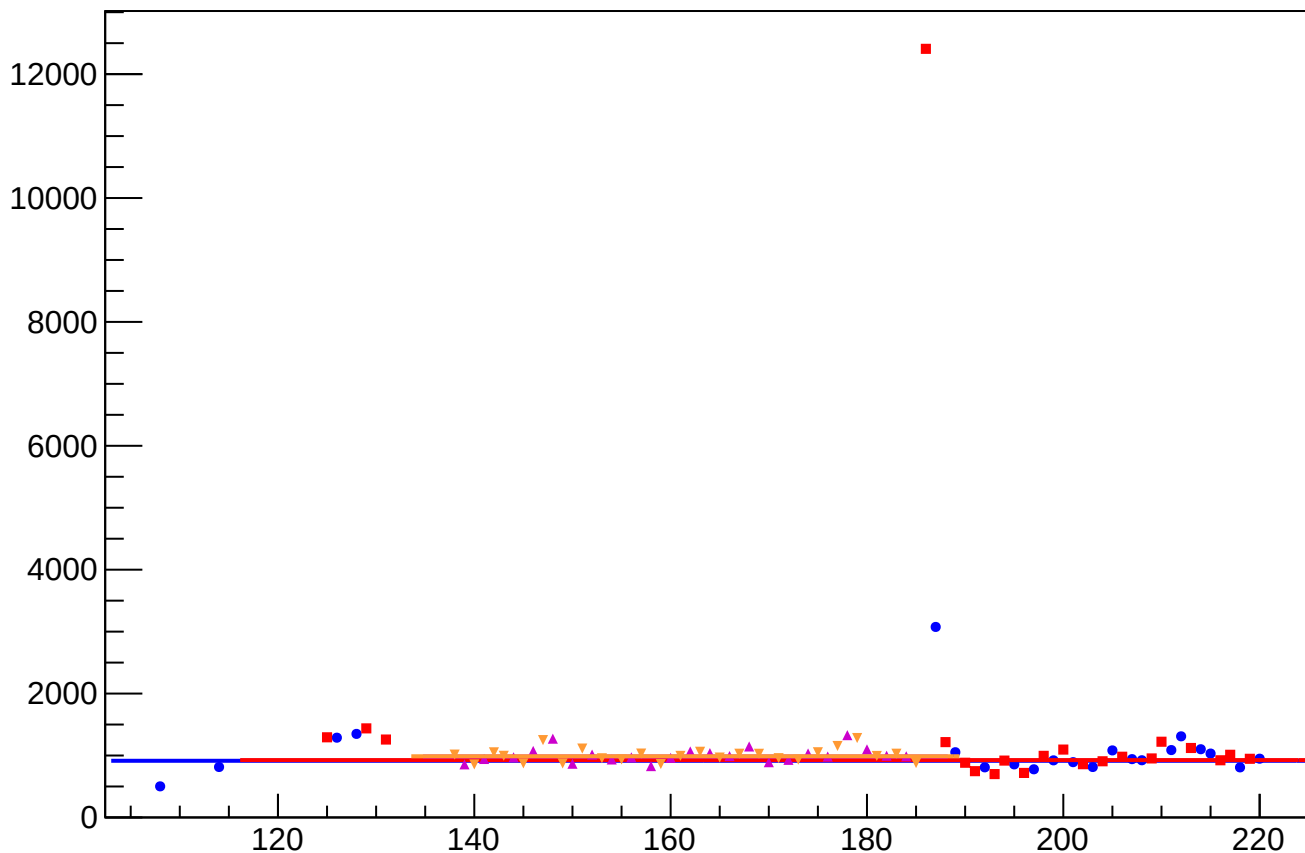
Right: 326.263 $\pm$ 188.757 χ^2/NDF : 63.3/41

In: -7.836 $\pm$ 176.649 χ^2/NDF : 54.8/43

Out: 180.194 $\pm$ 175.788 χ^2/NDF : 67.5/45

All: 86.638 $\pm$ 124.604 χ^2/NDF : 122.9/89

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 914.890+/-0.187 χ^2/NDF : 676491.2/20

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 926.085+/-0.191 χ^2/NDF : 1262507.3/20

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

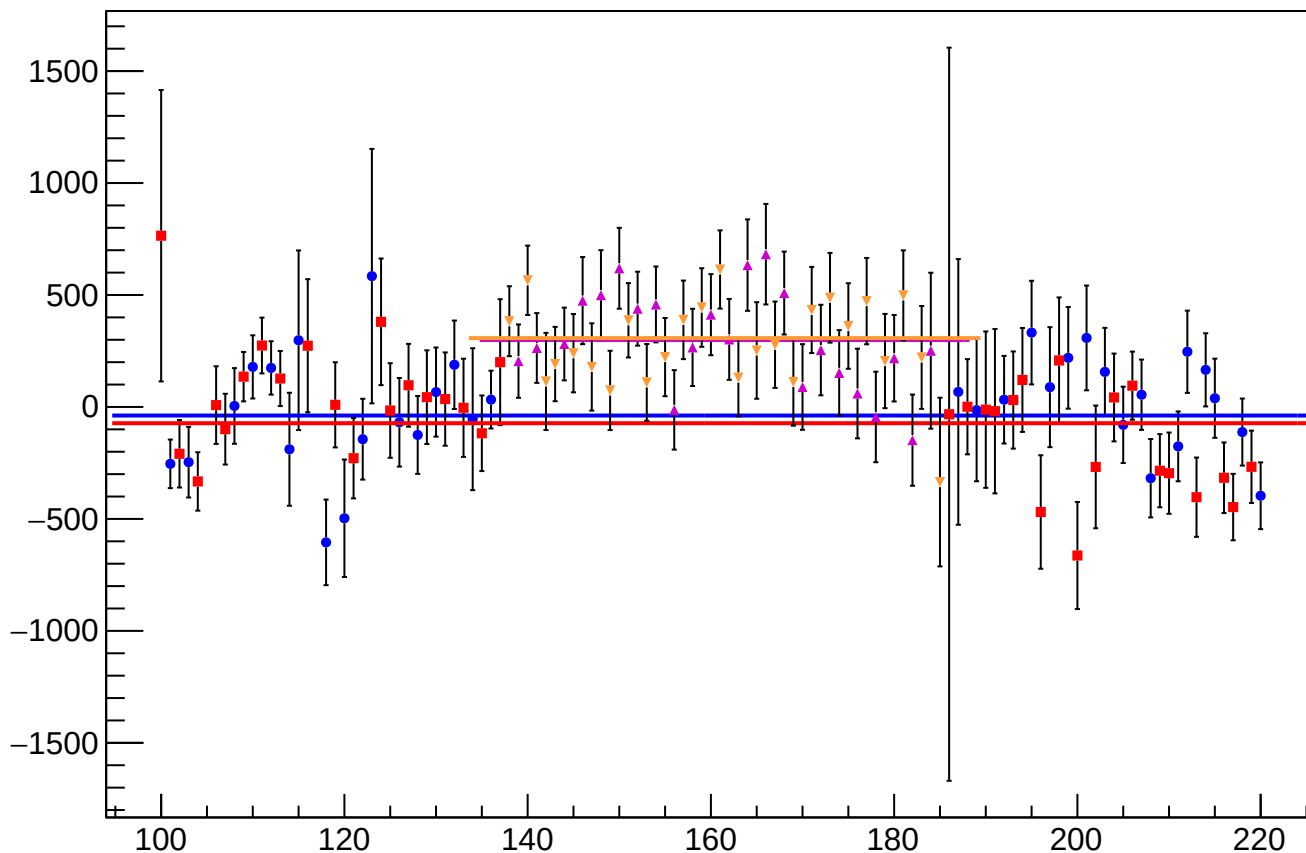
Right: 920.376+/-0.133 χ^2/NDF : 1940756.7/41

In: 953.077+/-0.125 χ^2/NDF : 1168179.9/43

Out: 961.607+/-0.124 χ^2/NDF : 1699843.1/45

All: 957.363+/-0.088 χ^2/NDF : 2870366.4/89

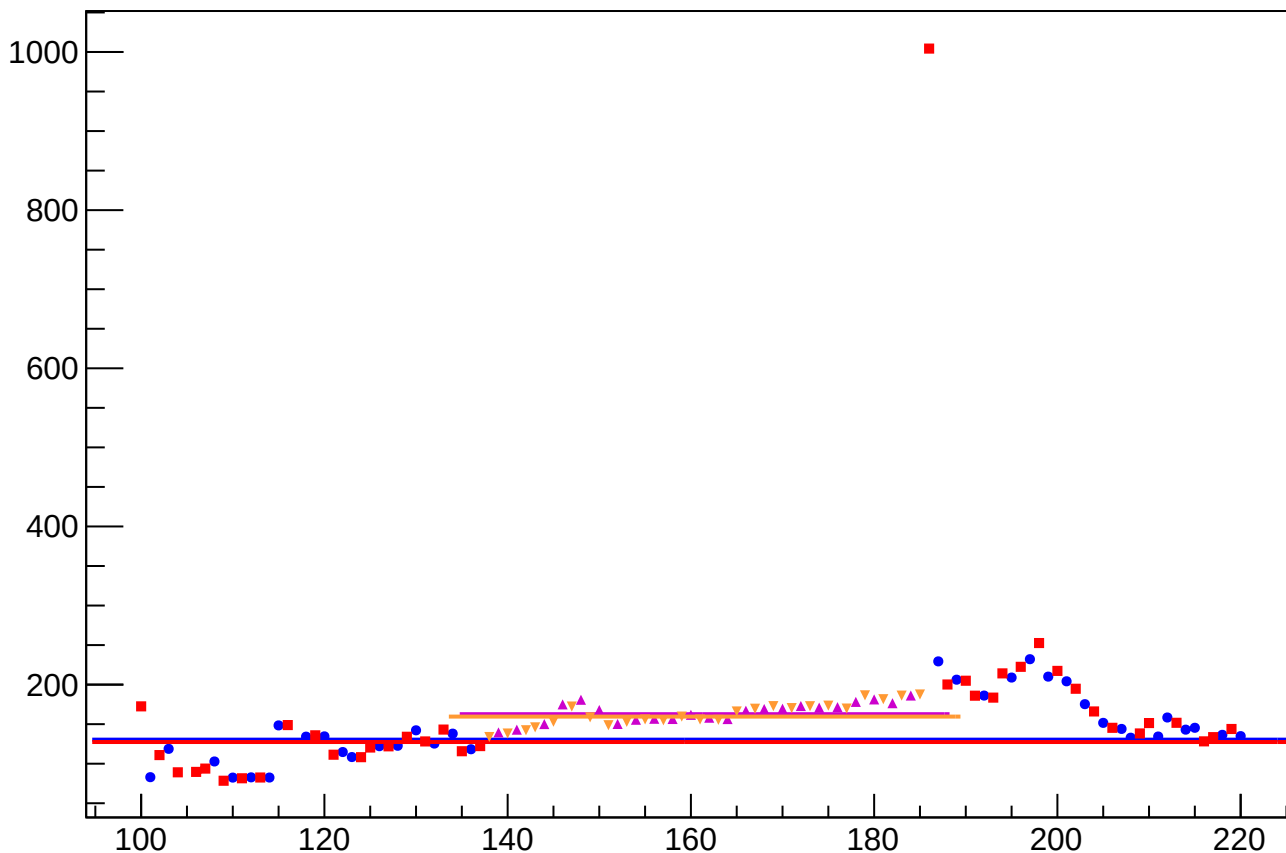
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -38.294 ± 31.152 $\chi^2/\text{NDF}: 49.3/33$
Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
Right Out: -72.546 ± 30.575 $\chi^2/\text{NDF}: 57.7/36$
Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$
Right: -55.740 ± 21.821 $\chi^2/\text{NDF}: 107.6/70$
In: 93.123 ± 24.342 $\chi^2/\text{NDF}: 123.5/56$
Out: 80.291 ± 23.640 $\chi^2/\text{NDF}: 140.5/61$
All: 86.519 ± 16.959 $\chi^2/\text{NDF}: 264.2/118$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 130.412 $\pm$ 0.022 χ^2 /NDF: 2654924.2/33

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 127.418 $\pm$ 0.022 χ^2 /NDF: 4051453.9/36

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

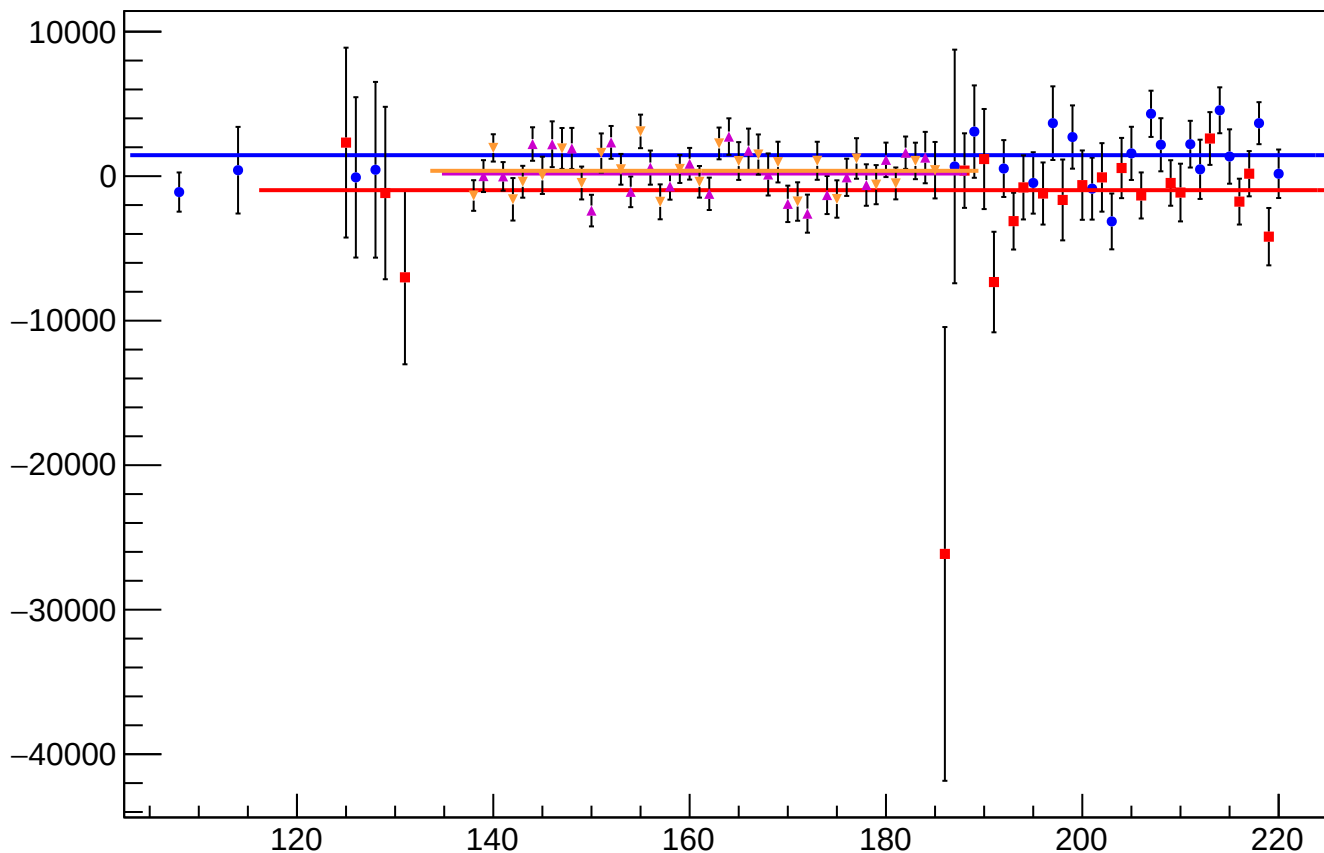
Right: 128.887 $\pm$ 0.015 χ^2 /NDF: 6715786.3/70

In: 142.948 $\pm$ 0.017 χ^2 /NDF:3686290.3/56

Out: 140.348 $\pm$ 0.017 χ^2 /NDF:5228588.8/61

All: 141.610 $\pm$ 0.012 χ^2 /NDF: 8926625.7/118

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1451.931+/-435.791 χ^2 /NDF: 23.5/20

Left Out: 370.001+/-243.521 χ^2 /NDF:30.5/24

Right Out: -969.380+/-488.274 χ^2 /NDF: 17.2/20

Left In: 183.107+/-252.258 χ^2 /NDF:36.5/22

Left: 279.847+/-175.203 χ^2 /NDF: 67.2/47

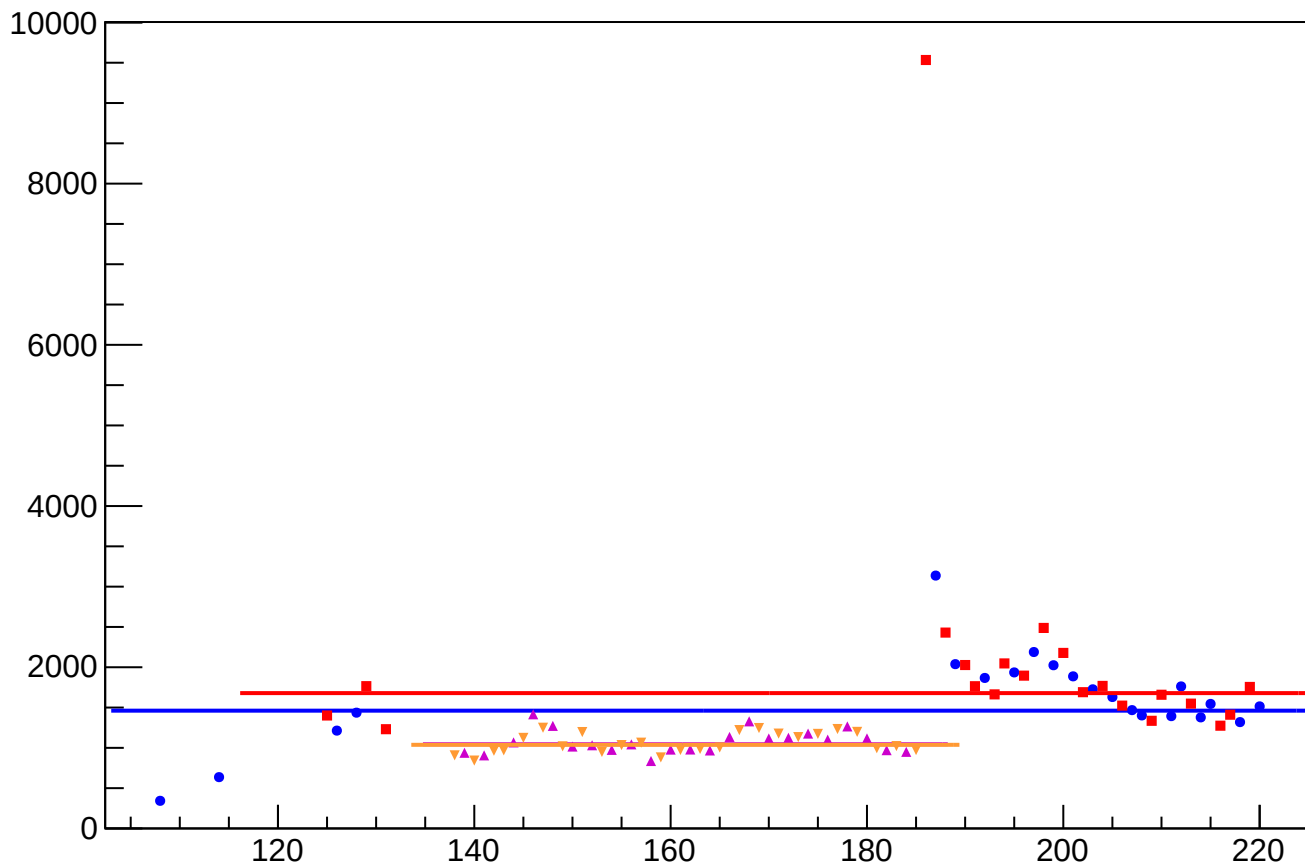
Right: 378.354+/-325.129 χ^2 /NDF: 54.4/41

In: 501.550+/-218.320 χ^2 /NDF:66.3/43

Out: 103.207+/-217.921 χ^2 /NDF:53.7/45

All: 302.014+/-154.234 χ^2 /NDF: 121.7/89

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1461.391+/-0.308 χ^2/NDF : 2358658.7/20

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1679.216+/-0.345 χ^2/NDF : 1355470.1/20

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

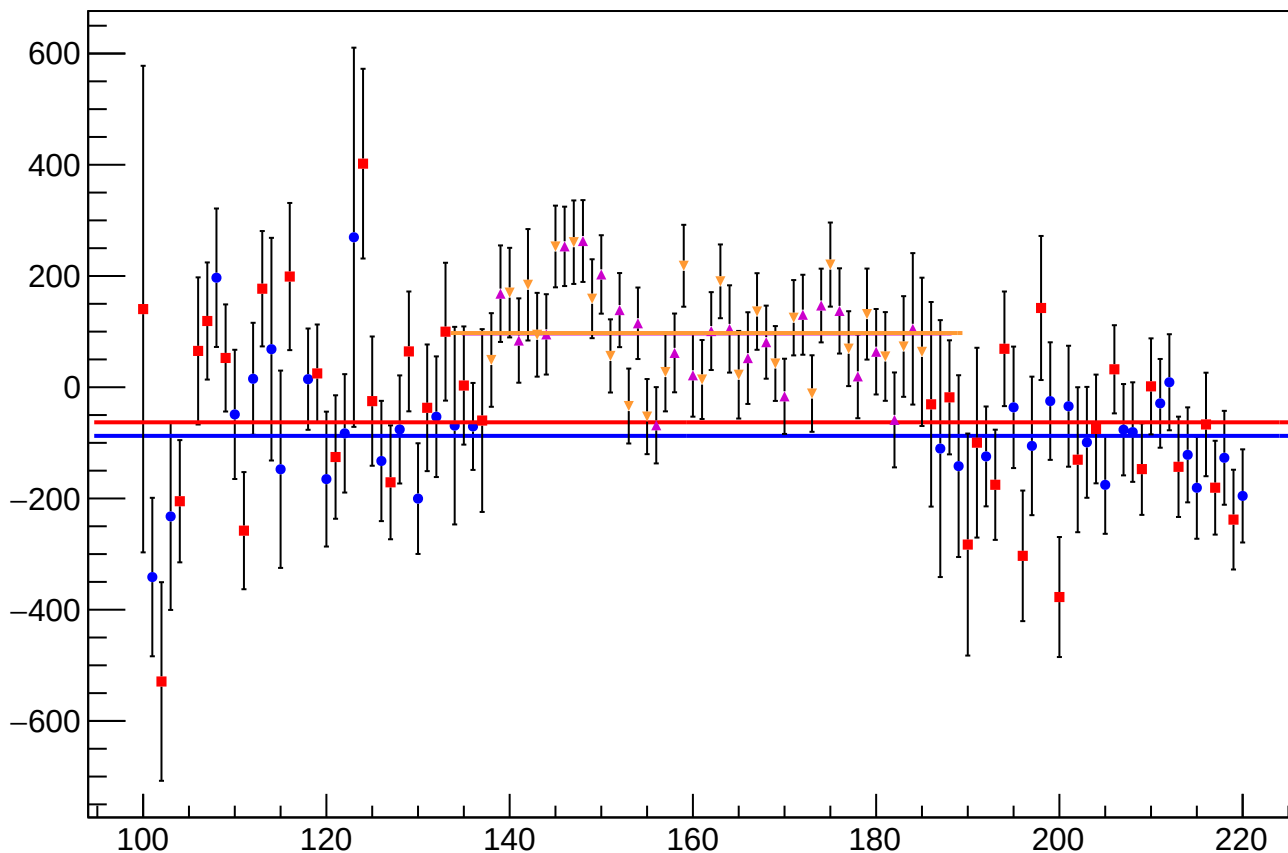
Right: 1557.972+/-0.230 χ^2/NDF : 3935679.0/41

In: 1149.313+/-0.154 χ^2/NDF : 4271288.3/43

Out: 1165.476+/-0.154 χ^2/NDF : 4615232.8/45

All: 1157.410+/-0.109 χ^2/NDF : 8892012.1/89

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -87.452 ± 18.040 χ^2/NDF : 22.4/33

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -63.055 ± 17.993 χ^2/NDF : 69.8/36

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

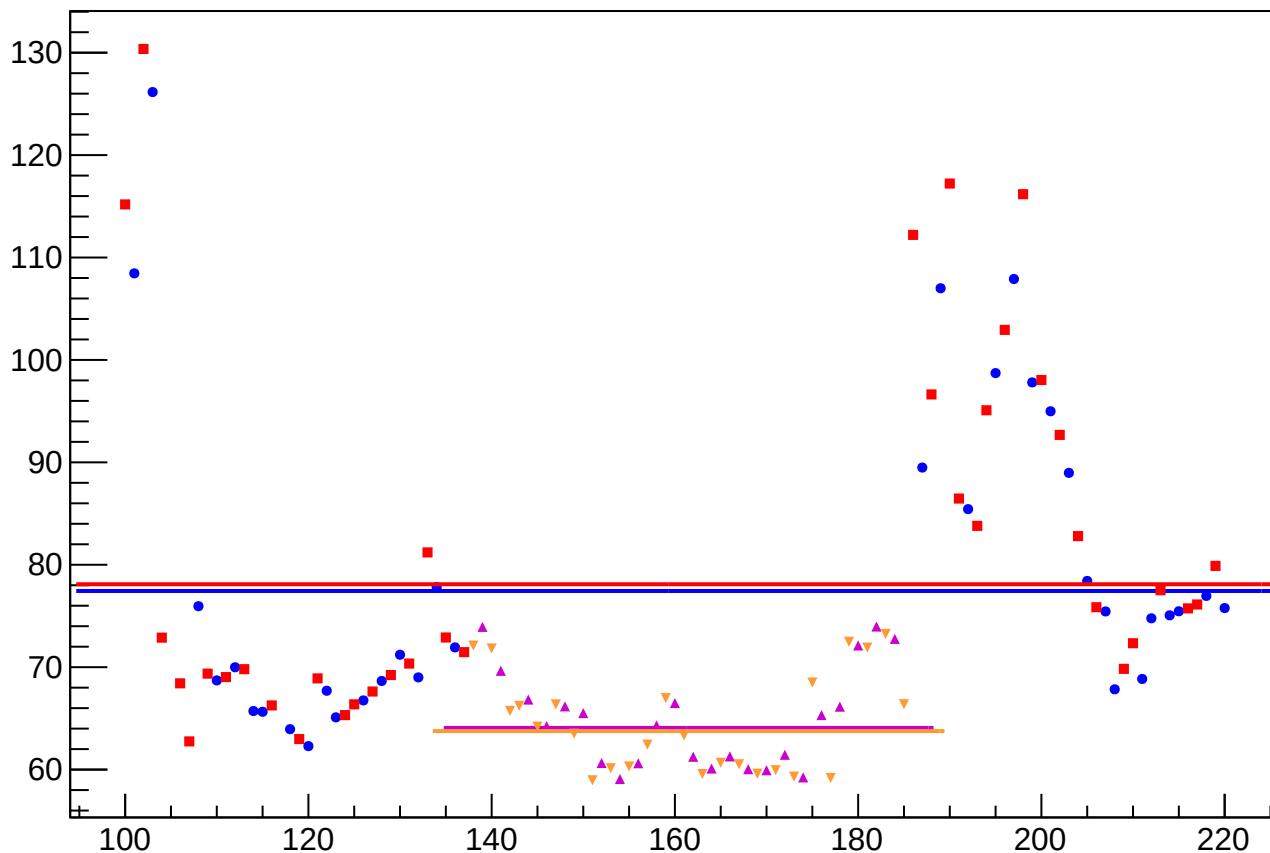
Right: -75.221 ± 12.739 χ^2/NDF : 93.1/70

In: 19.255 ± 11.699 χ^2/NDF : 112.0/56

Out: 32.259 ± 11.467 χ^2/NDF : 153.0/61

All: 25.887 ± 8.189 χ^2/NDF : 265.7/118

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.440 $\pm$ 0.013 χ^2 /NDF: 949448.7/33

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.097 $\pm$ 0.013 χ^2 /NDF: 1132015.8/36

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

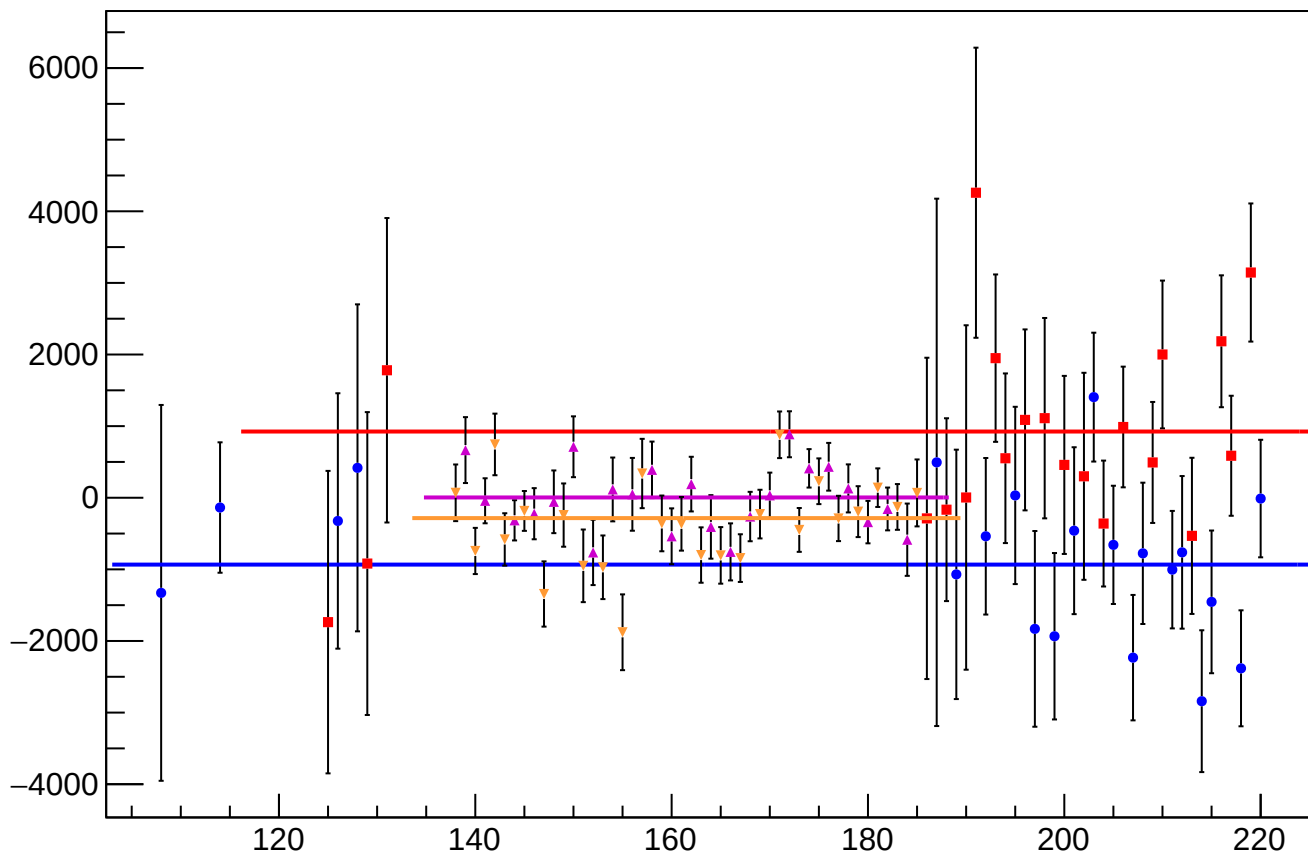
Right: 77.769 $\pm$ 0.009 χ^2 /NDF: 2082794.1/70

In: 69.692 $\pm$ 0.008 χ^2 /NDF: 1750738.0/56

Out: 69.583 $\pm$ 0.008 χ^2 /NDF: 2078773.1/61

All: 69.637 $\pm$ 0.006 χ^2 /NDF: 3829598.9/118

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -933.525 ± 234.386 $\chi^2/\text{NDF}: 21.1/20$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 924.648 ± 256.758 $\chi^2/\text{NDF}: 20.2/20$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

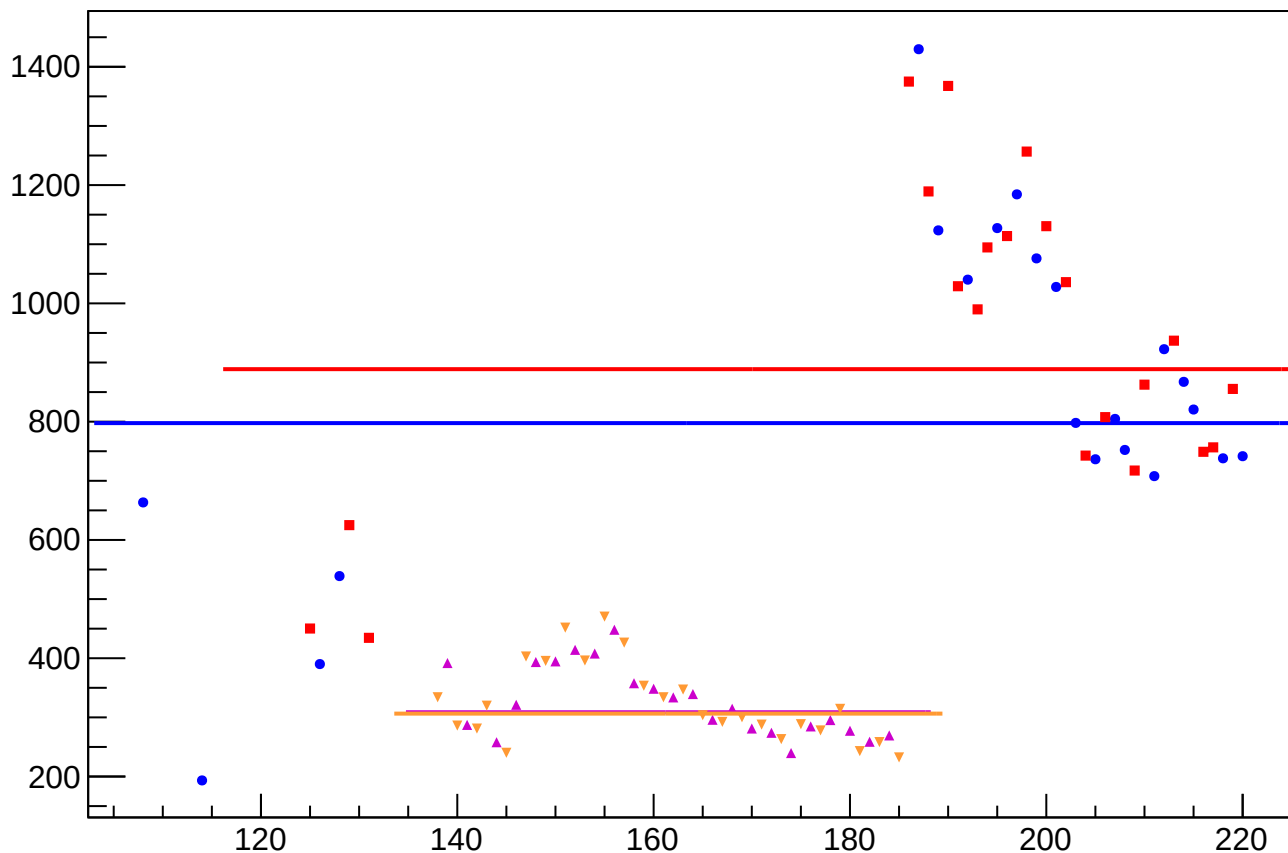
Right: -88.902 ± 173.106 $\chi^2/\text{NDF}: 69.9/41$

In: -83.222 ± 71.505 $\chi^2/\text{NDF}: 67.9/43$

Out: -194.499 ± 69.979 $\chi^2/\text{NDF}: 95.8/45$

All: -140.061 ± 50.013 $\chi^2/\text{NDF}: 165.0/89$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 797.561 ± 0.166 χ^2/NDF : 1836242.2/20

Left Out: 306.363 ± 0.051 χ^2/NDF : 1215669.9/24

Right Out: 888.774 ± 0.182 χ^2/NDF : 1135476.4/20

Left In: 308.727 ± 0.053 χ^2/NDF : 1002947.4/22

Left: 307.507 ± 0.037 χ^2/NDF : 2219640.0/47

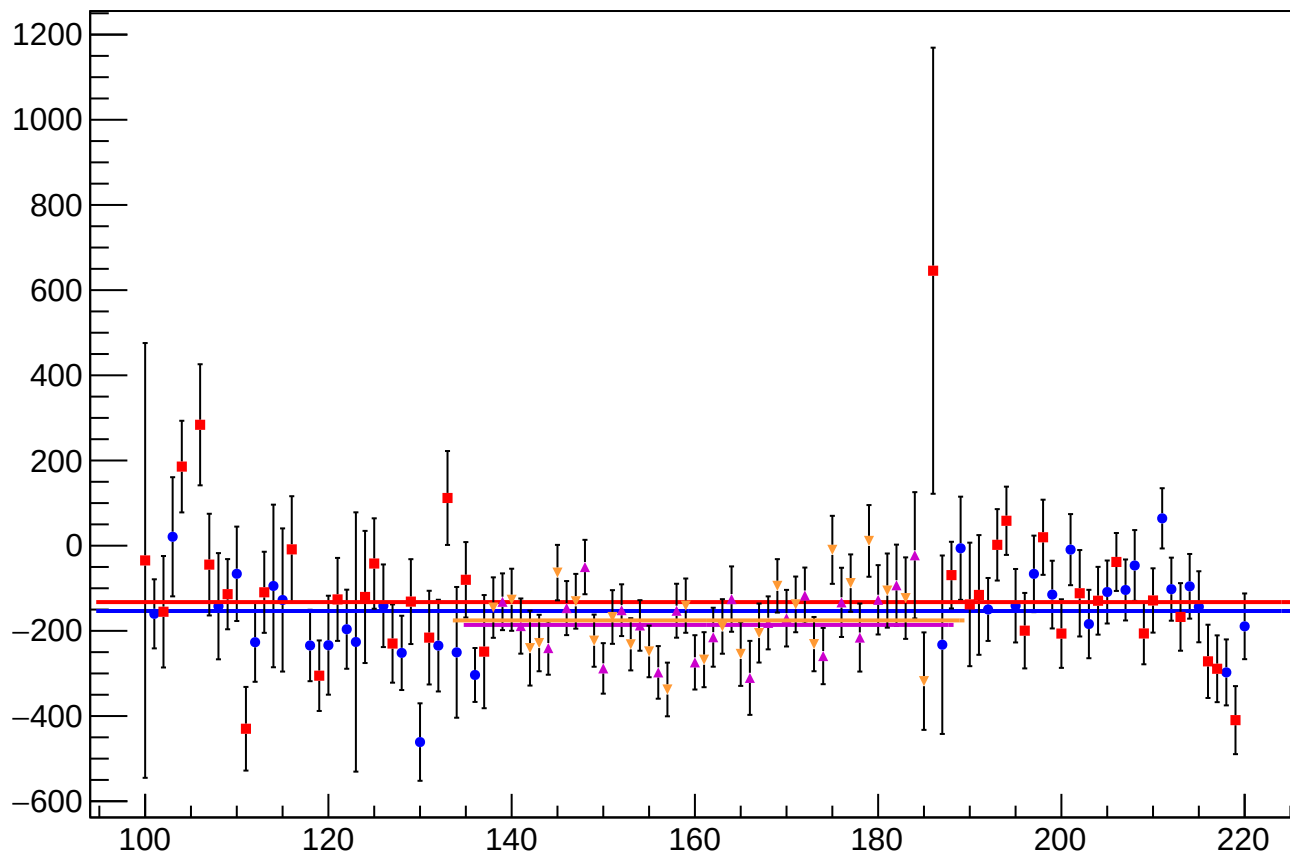
Right: 839.021 ± 0.122 χ^2/NDF : 3109396.2/41

In: 354.222 ± 0.051 χ^2/NDF : 10728922.2/43

Out: 349.626 ± 0.049 χ^2/NDF : 11877388.1/45

All: 351.874 ± 0.035 χ^2/NDF : 22610531.1/89

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -153.373 ± 15.516 $\chi^2/\text{NDF}: 46.6/33$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -132.439 ± 15.679 $\chi^2/\text{NDF}: 78.4/36$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

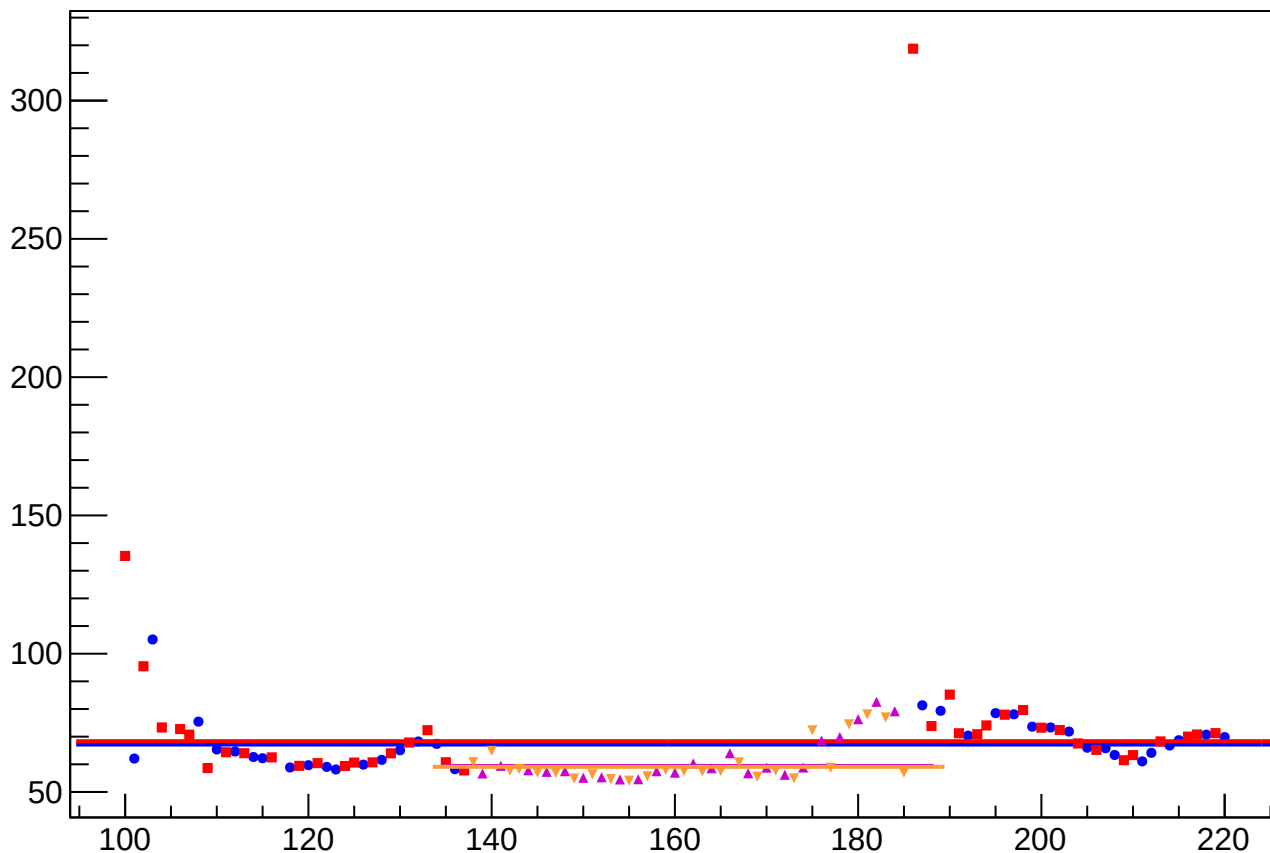
Right: -143.015 ± 11.029 $\chi^2/\text{NDF}: 125.9/70$

In: -171.023 ± 10.521 $\chi^2/\text{NDF}: 72.5/56$

Out: -156.617 ± 10.378 $\chi^2/\text{NDF}: 117.2/61$

All: -163.721 ± 7.389 $\chi^2/\text{NDF}: 190.7/118$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.159 $\pm$ 0.011 χ^2 /NDF: 433056.2/33

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.360 $\pm$ 0.011 χ^2 /NDF: 878334.5/36

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

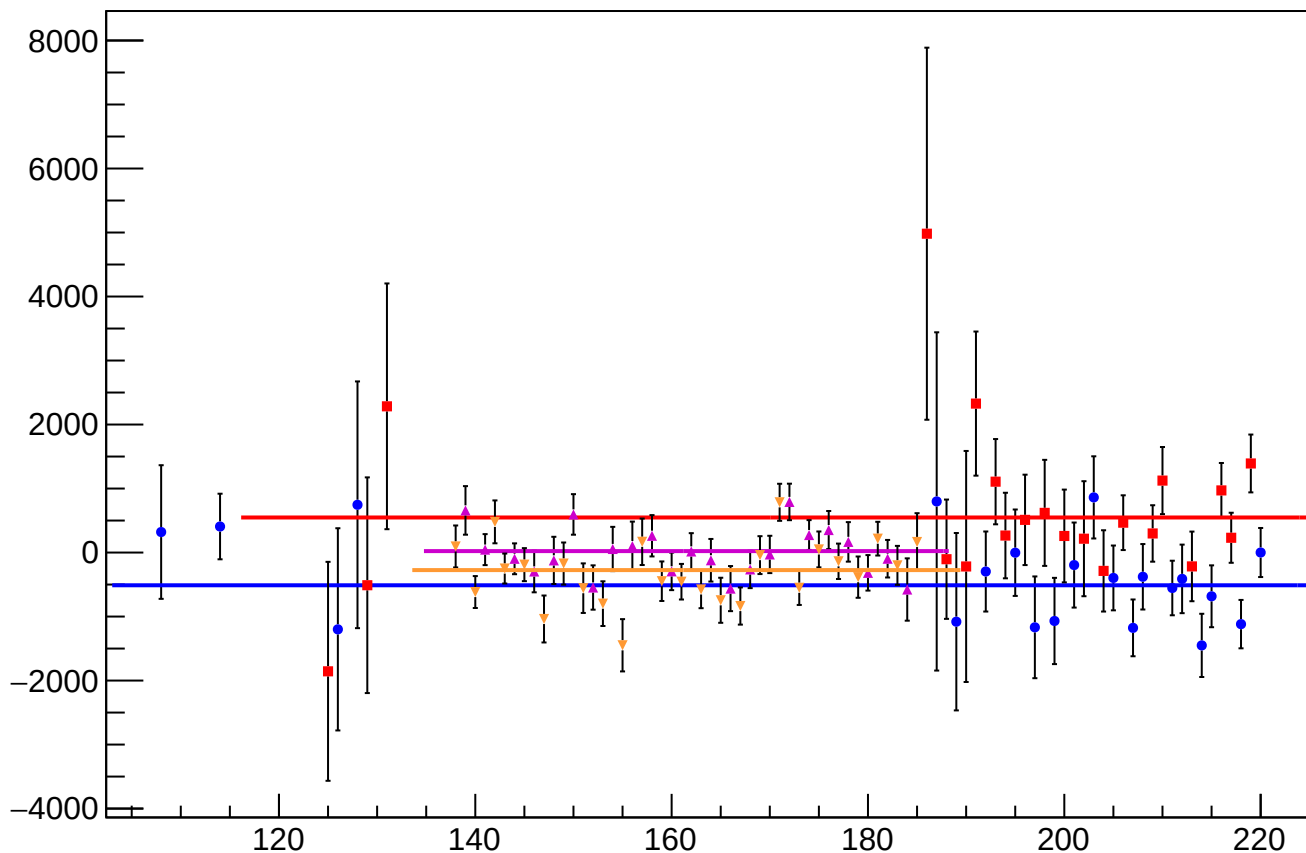
Right: 67.753 $\pm$ 0.008 χ^2 /NDF: 1317317.2/70

In: 62.973 $\pm$ 0.007 χ^2 /NDF: 1075556.6/56

Out: 63.157 $\pm$ 0.007 χ^2 /NDF: 1640116.3/61

All: 63.066 $\pm$ 0.005 χ^2 /NDF: 2715980.7/118

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -511.331 ± 125.707 $\chi^2/\text{NDF}: 22.3/20$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 547.830 ± 139.455 $\chi^2/\text{NDF}: 20.3/20$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

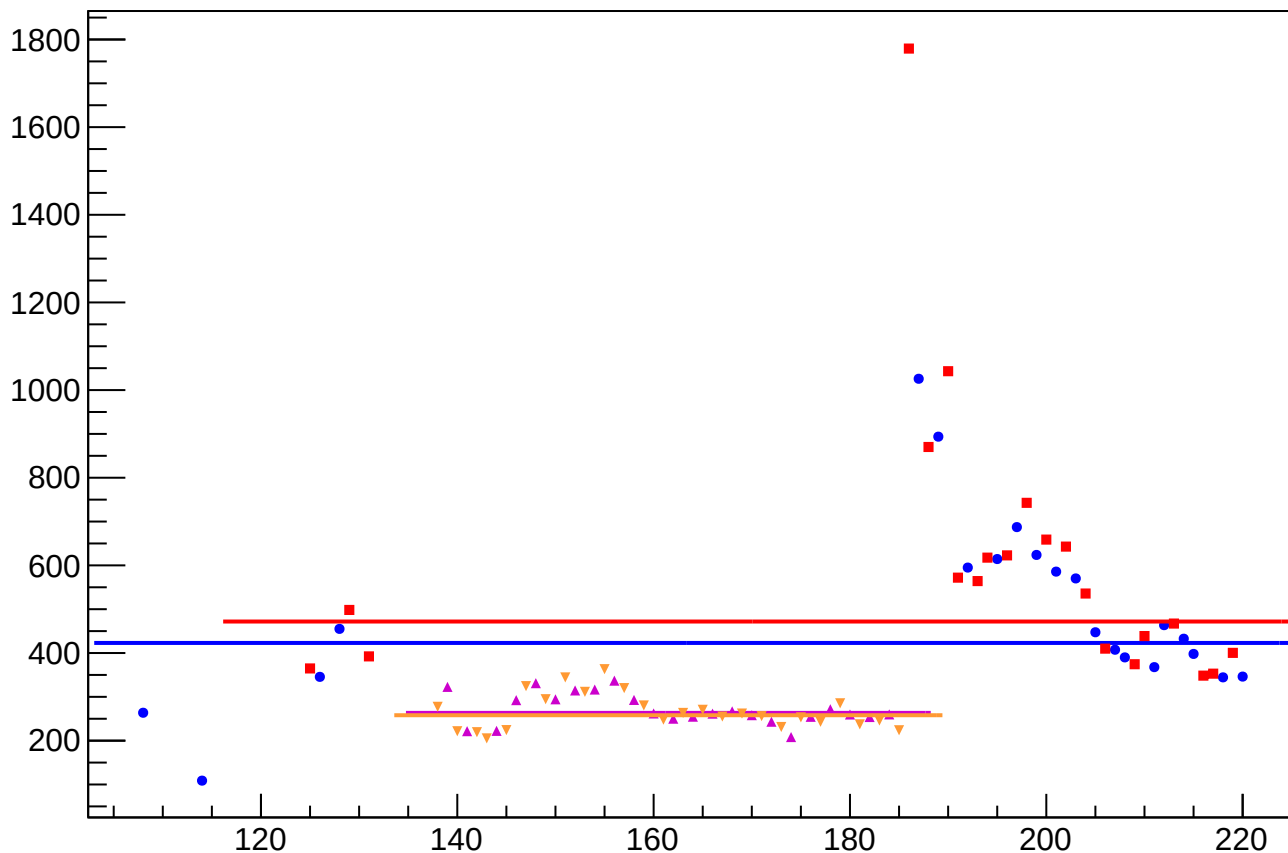
Right: -36.520 ± 93.372 $\chi^2/\text{NDF}: 74.3/41$

In: -86.311 ± 56.781 $\chi^2/\text{NDF}: 65.5/43$

Out: -142.816 ± 55.733 $\chi^2/\text{NDF}: 103.4/45$

All: -115.090 ± 39.774 $\chi^2/\text{NDF}: 169.4/89$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 423.004+/-0.089 χ^2/NDF : 2308418.6/20

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 471.871+/-0.099 χ^2/NDF : 2211284.5/20

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

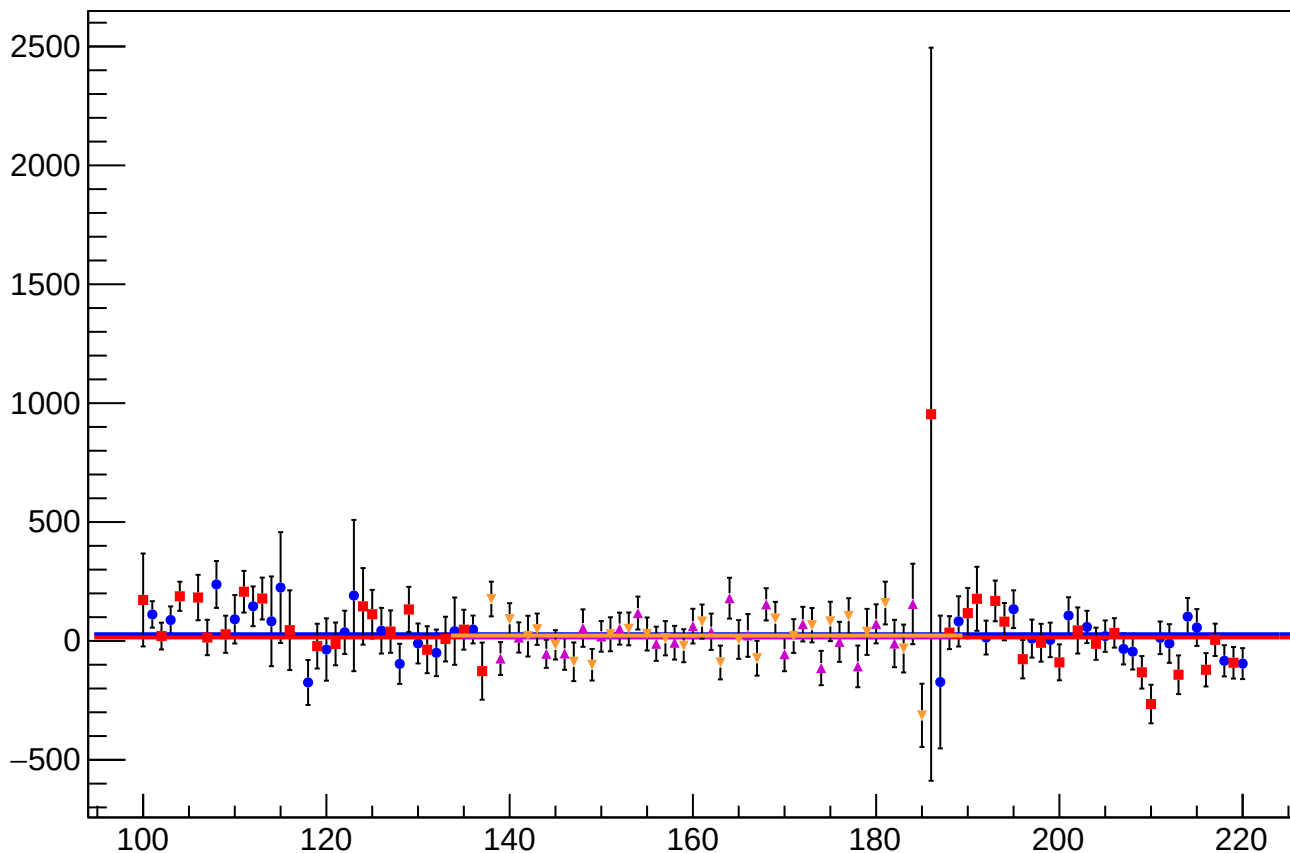
Right: 444.910+/-0.066 χ^2/NDF : 4655190.8/41

In: 295.960+/-0.040 χ^2/NDF : 5460367.1/43

Out: 292.193+/-0.039 χ^2/NDF : 6887266.5/45

All: 294.041+/-0.028 χ^2/NDF : 12352119.2/89

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 28.175+/-13.944 χ^2/NDF : 32.9/33

Left Out: 22.871+/-14.968 χ^2/NDF :29.0/24

Right Out: 14.870+/-13.764 χ^2/NDF : 62.3/36

Left In: 16.198+/-15.531 χ^2/NDF :23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

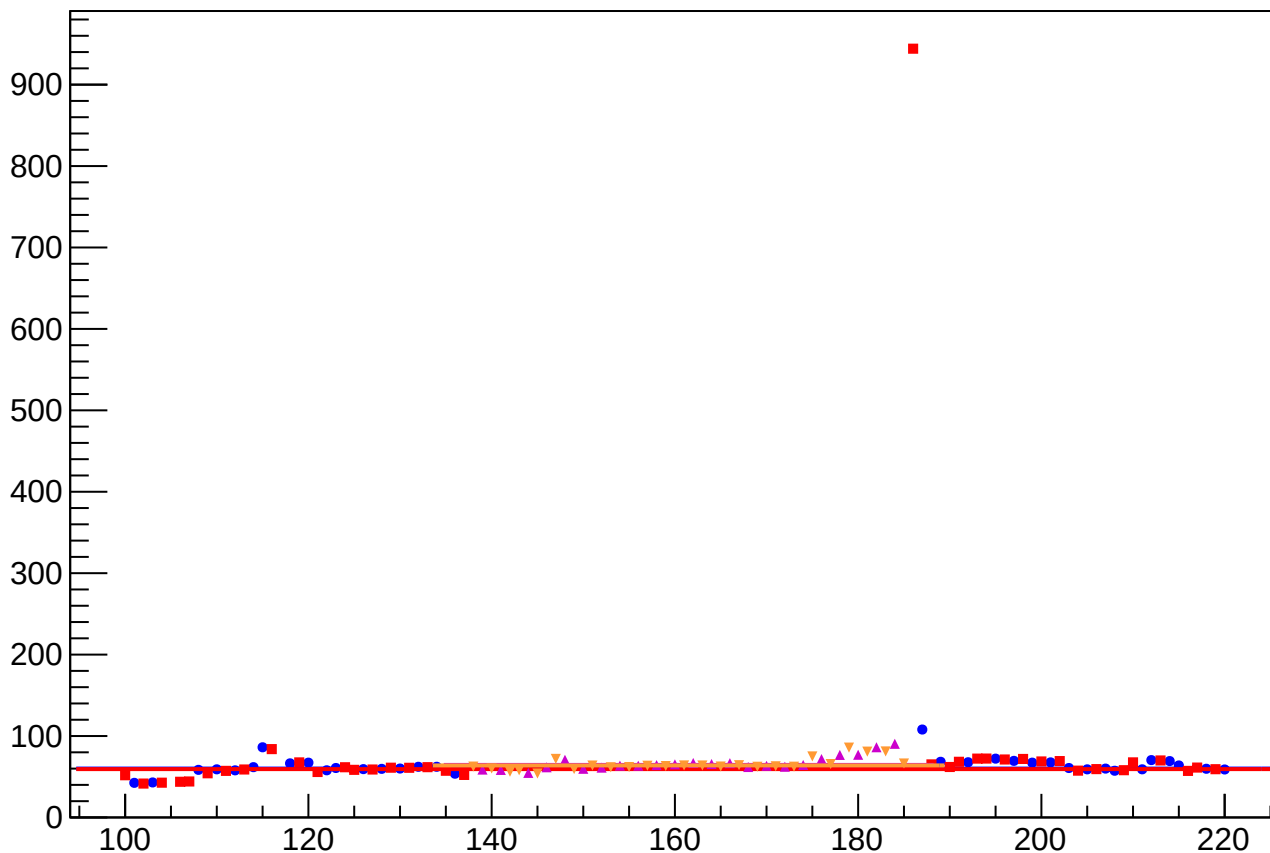
Right: 21.436+/-9.795 χ^2/NDF : 95.7/70

In: 22.830+/-10.375 χ^2/NDF :56.6/56

Out: 18.536+/-10.132 χ^2/NDF :91.5/61

All: 20.632+/-7.249 χ^2/NDF : 148.2/118

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.033+/-0.010 χ^2 /NDF: 723429.6/33

Left Out: 63.920+/-0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.380+/-0.010 χ^2 /NDF: 1556402.0/36

Left In: 64.511+/-0.011 χ^2 /NDF: 370515.2/22

Left: 64.204+/-0.008 χ^2 /NDF: 767426.6/47

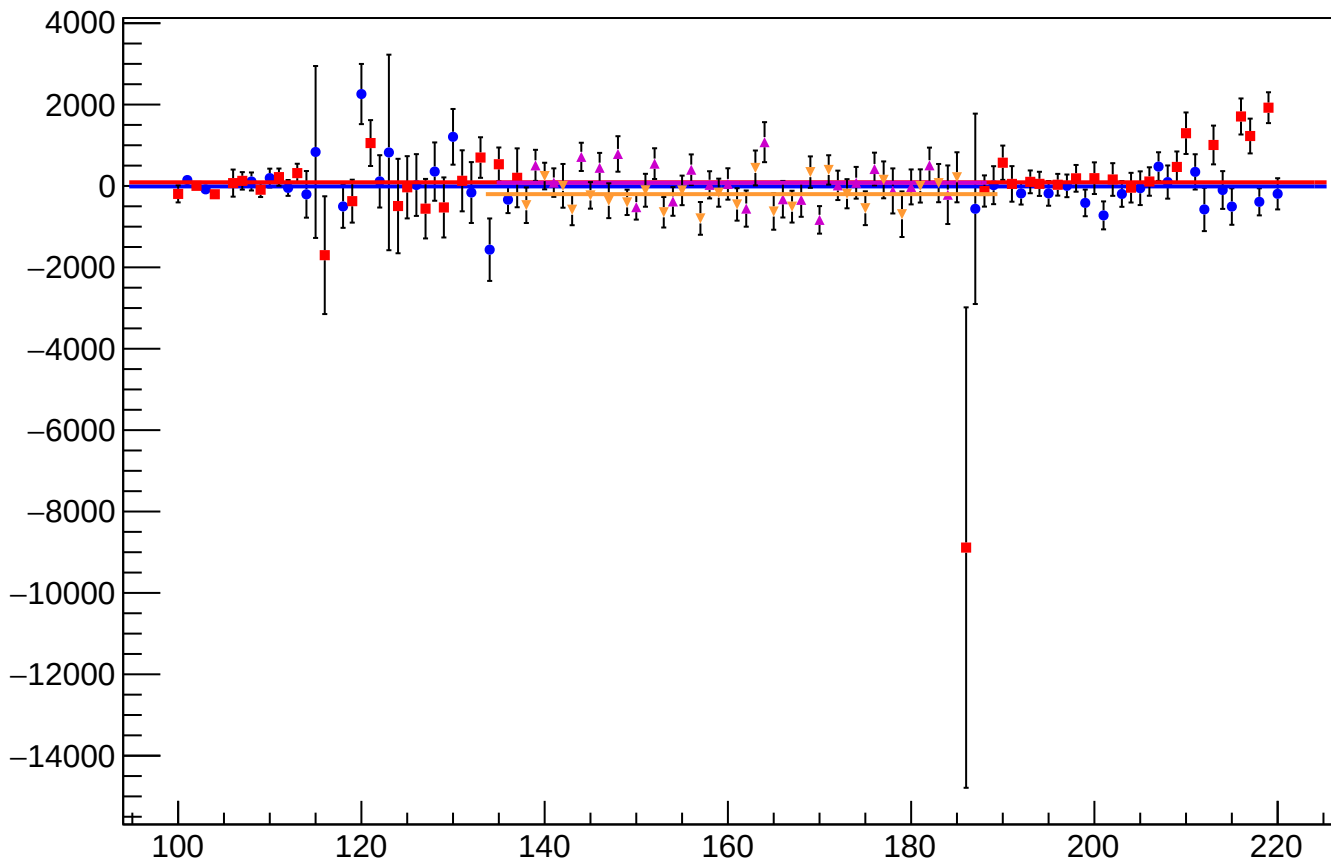
Right: 59.702+/-0.007 χ^2 /NDF: 2282050.7/70

In: 62.031+/-0.007 χ^2 /NDF: 1186006.6/56

Out: 61.460+/-0.007 χ^2 /NDF: 2051497.0/61

All: 61.739+/-0.005 χ^2 /NDF: 3240606.6/118

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -11.218 ± 44.722 χ^2/NDF : 38.3/33

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 90.157 ± 45.717 χ^2/NDF : 81.6/36

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

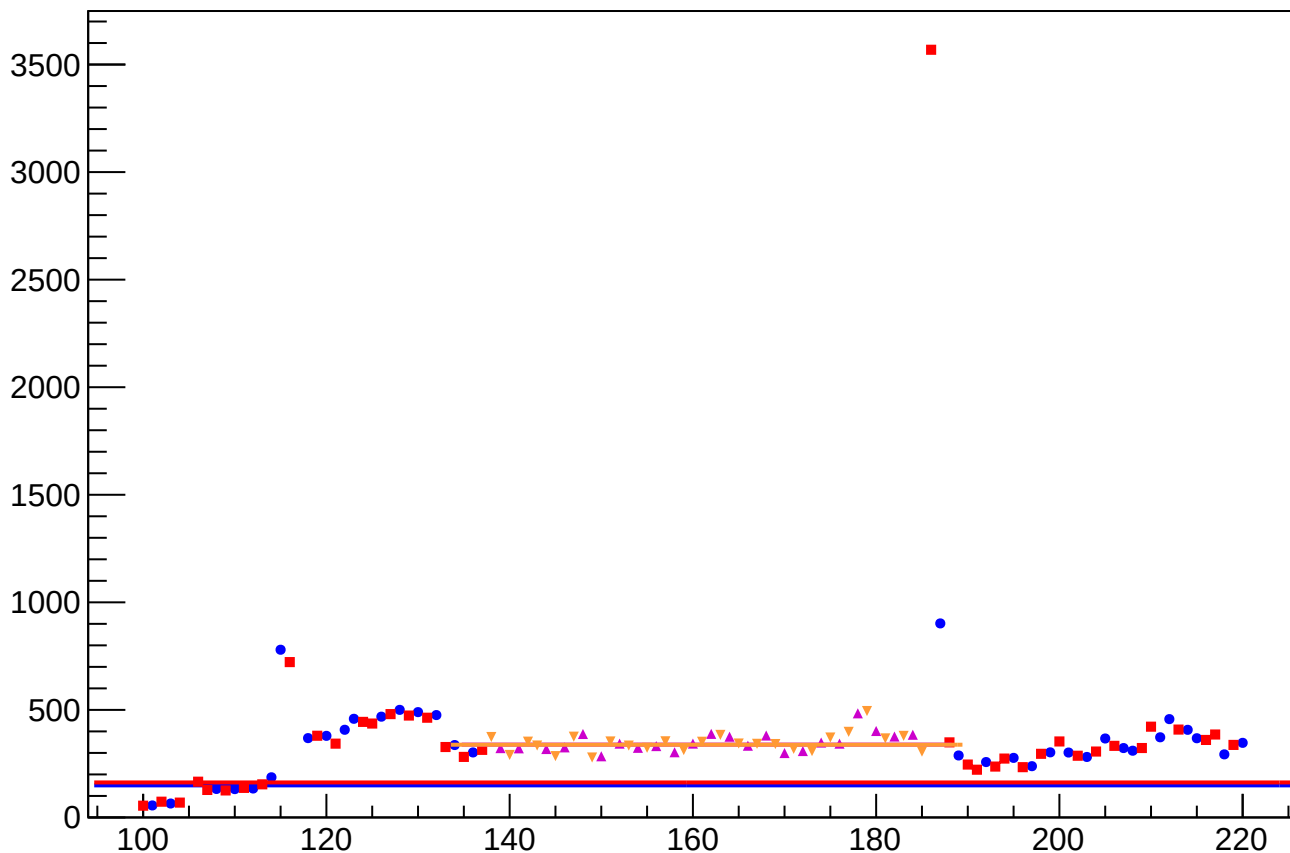
Right: 38.354 ± 31.969 χ^2/NDF : 122.3/70

In: 9.777 ± 39.238 χ^2/NDF : 72.6/56

Out: 17.848 ± 39.637 χ^2/NDF : 111.3/61

All: 13.772 ± 27.886 χ^2/NDF : 183.9/118

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 149.137+/-0.032 χ^2/NDF : 14847404.9/33

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 162.772+/-0.032 χ^2/NDF : 13155676.8/36

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

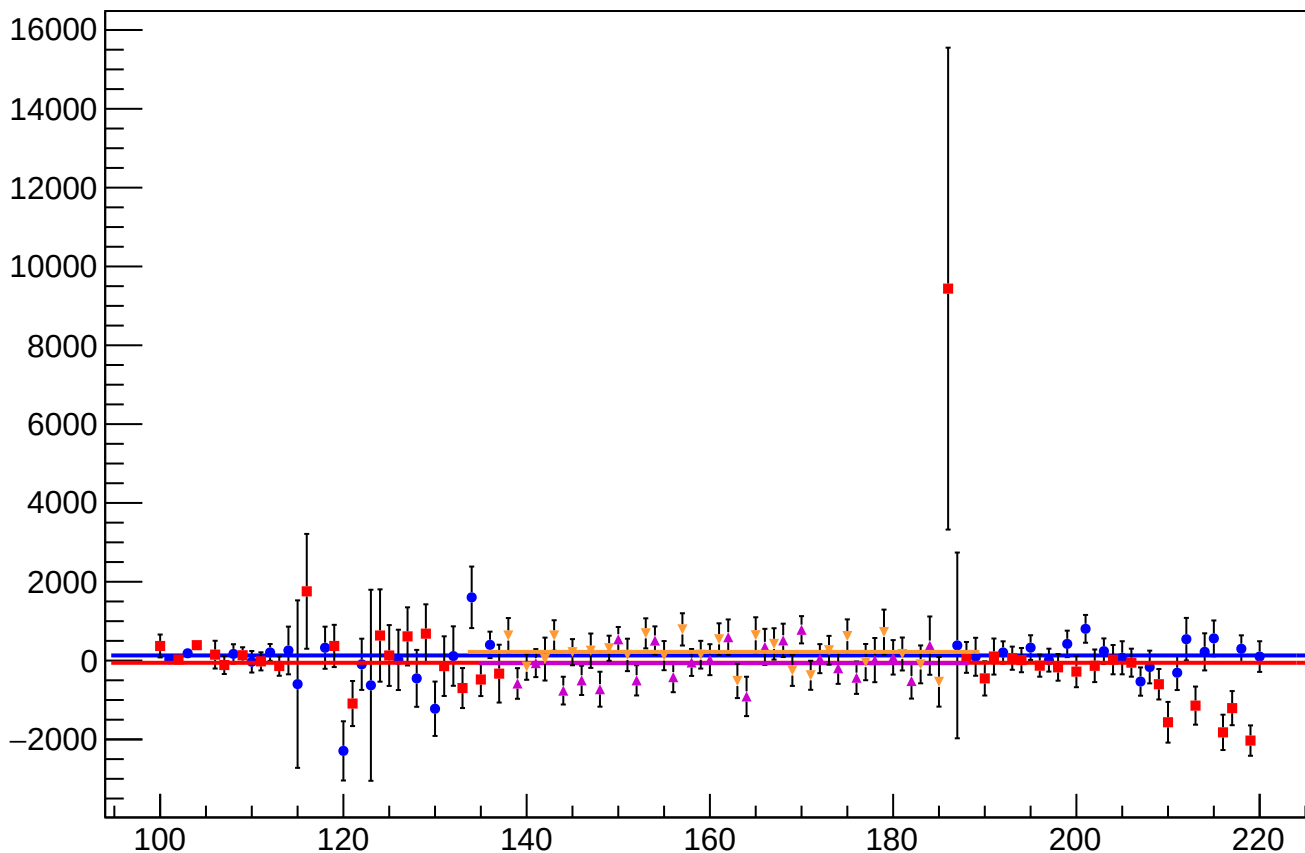
Right: 155.805+/-0.023 χ^2/NDF : 28093991.0/70

In: 192.743+/-0.028 χ^2/NDF : 23544737.0/56

Out: 206.310+/-0.028 χ^2/NDF : 20960083.0/61

All: 199.458+/-0.020 χ^2/NDF : 44623160.8/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 130.447 $\pm$ 52.117 χ^2 /NDF: 33.1/33

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: -55.581 $\pm$ 50.687 χ^2 /NDF: 96.9/36

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

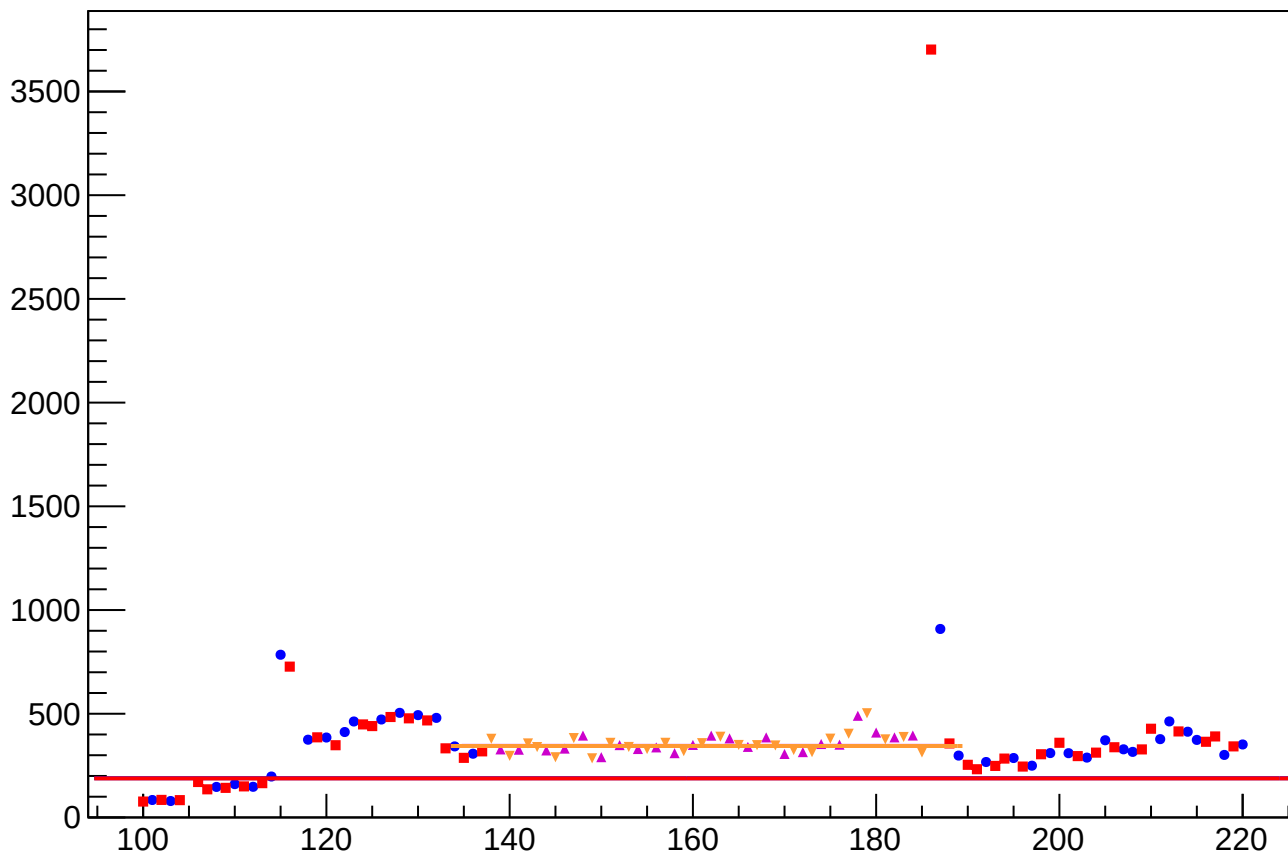
Right: 34.846 $\pm$ 36.336 χ^2 /NDF: 136.5/70

In: 75.337 $\pm$ 44.185 χ^2 /NDF:71.0/56

Out: 22.246 $\pm$ 42.971 χ^2 /NDF:125.0/61

All: 48.052 $\pm$ 30.805 χ^2 /NDF: 196.7/118

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 189.180+/-0.037 χ^2/NDF : 11052775.9/33

Left Out: 344.506+/-0.057 χ^2/NDF :488323.4/24

Right Out: 188.315+/-0.036 χ^2/NDF : 10953564.8/36

Left In: 345.039+/-0.059 χ^2/NDF :427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

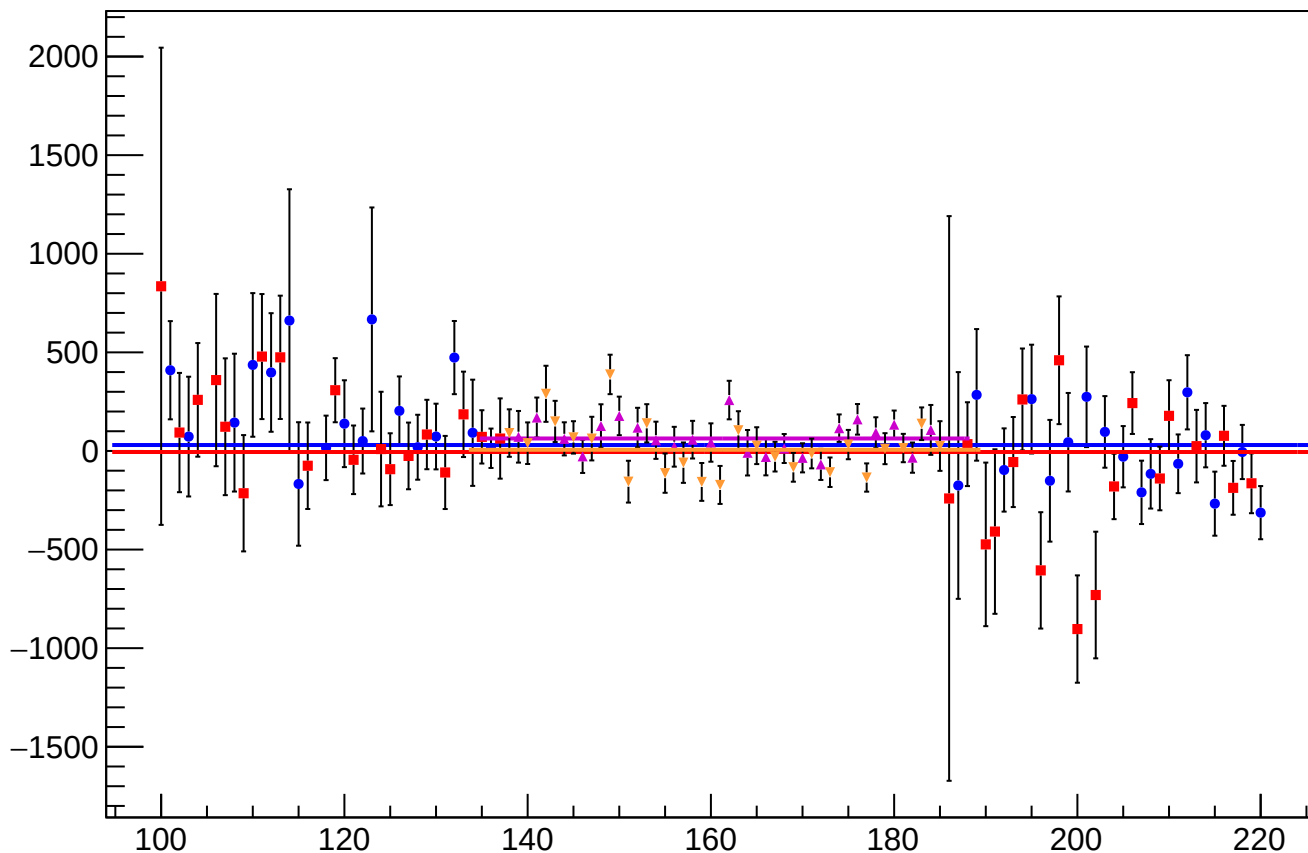
Right: 188.735+/-0.026 χ^2/NDF : 22006623.9/70

In: 233.012+/-0.031 χ^2/NDF :16510507.3/56

Out: 232.252+/-0.030 χ^2/NDF :16784087.1/61

All: 232.622+/-0.022 χ^2/NDF : 33294899.0/13

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 30.114 $\pm$ 33.290 χ^2 /NDF: 33.5/33

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: -5.298 $\pm$ 34.752 χ^2 /NDF: 47.4/36

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

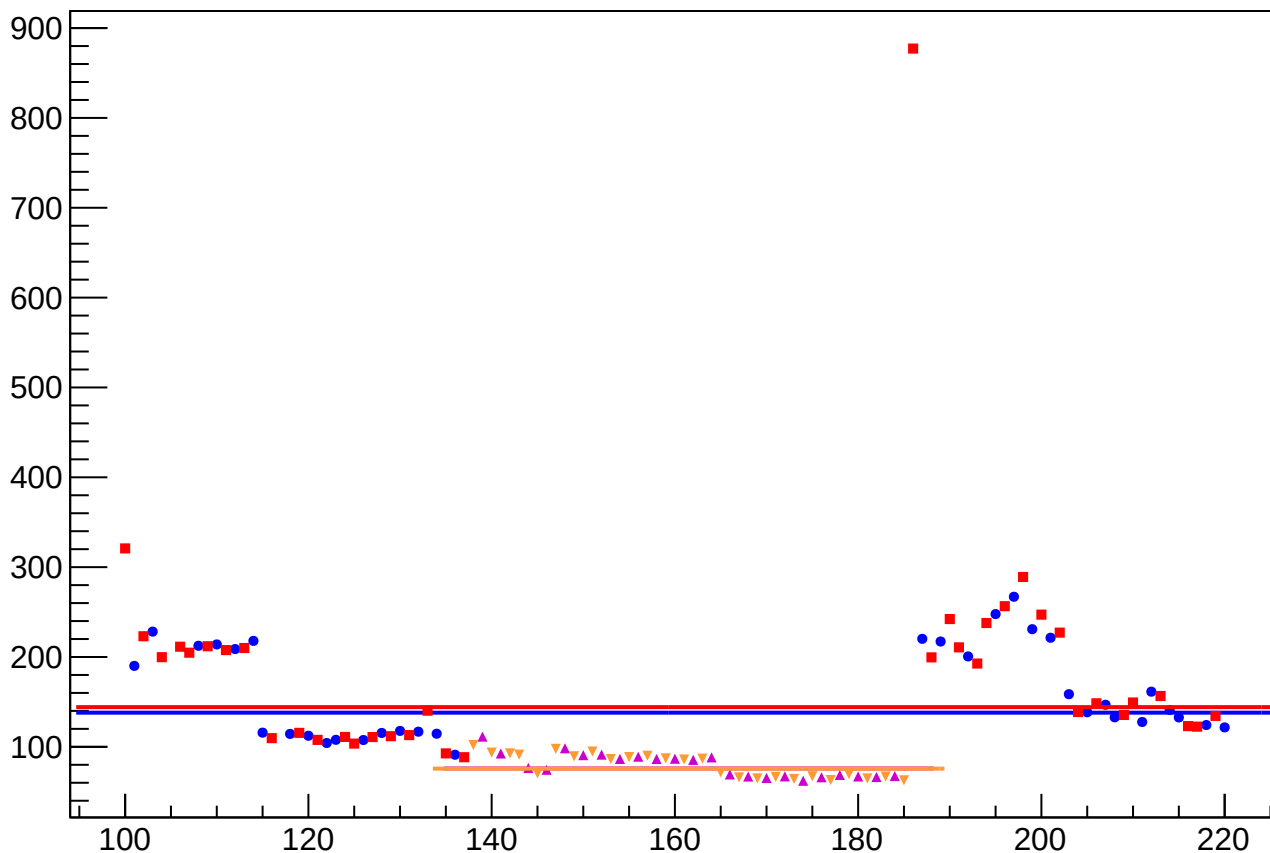
Right: 13.169 $\pm$ 24.040 χ^2 /NDF: 81.5/70

In: 55.488 $\pm$ 16.135 χ^2 /NDF:54.1/56

Out: 3.645 $\pm$ 15.920 χ^2 /NDF:93.5/61

All: 29.219 $\pm$ 11.332 χ^2 /NDF: 152.9/118

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 138.044 $\pm$ 0.024 χ^2 /NDF: 2971554.2/33

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF: 937821.8/24

Right Out: 144.191 $\pm$ 0.025 χ^2 /NDF: 4006391.1/36

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF: 831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

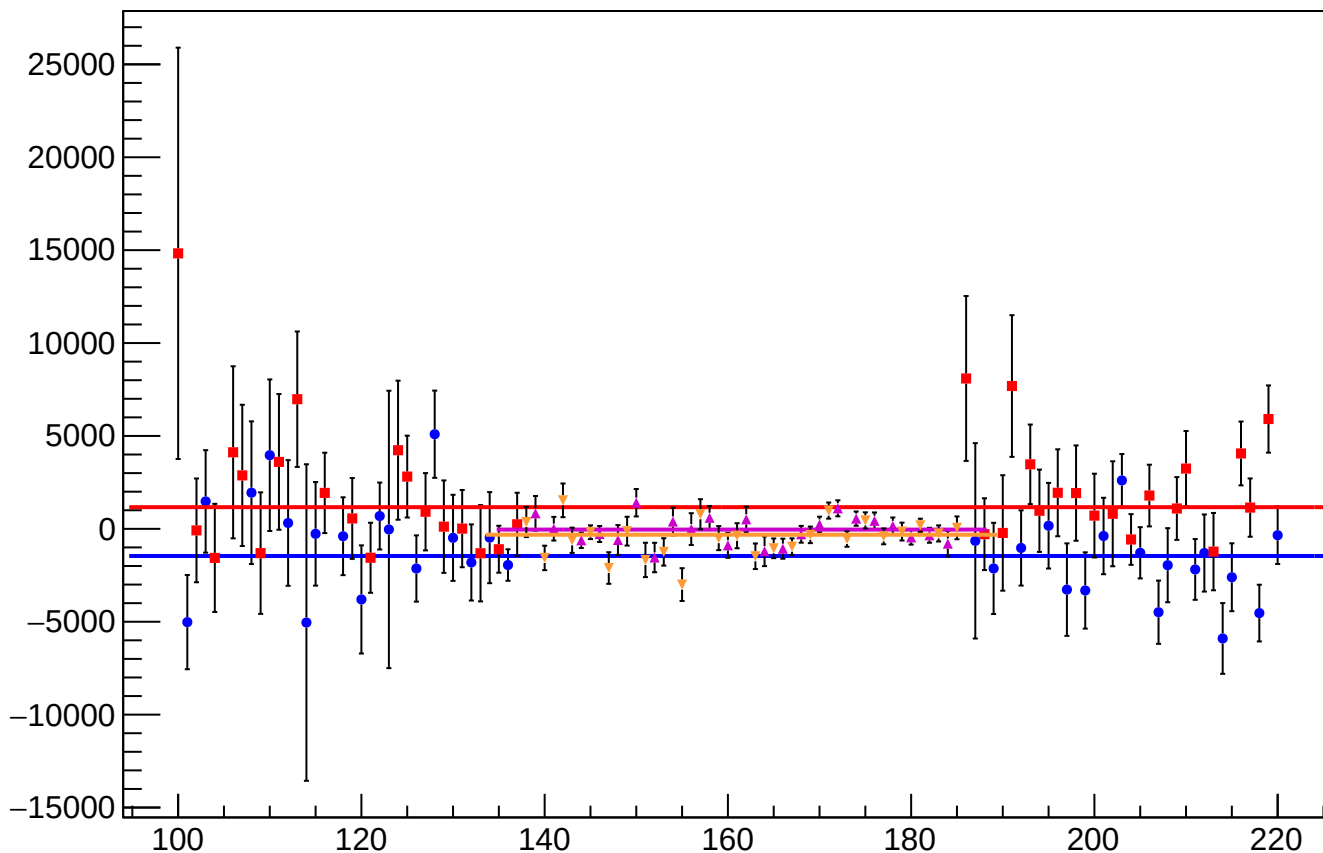
Right: 140.986 $\pm$ 0.017 χ^2 /NDF: 7010583.8/70

In: 90.506 $\pm$ 0.011 χ^2 /NDF: 9133422.3/56

Out: 90.107 $\pm$ 0.011 χ^2 /NDF: 11074816.4/61

All: 90.304 $\pm$ 0.008 χ^2 /NDF: 20208855.9/118

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1460.907 ± 338.838 $\chi^2/\text{NDF}: 41.6/33$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 1166.496 ± 360.600 $\chi^2/\text{NDF}: 36.6/36$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

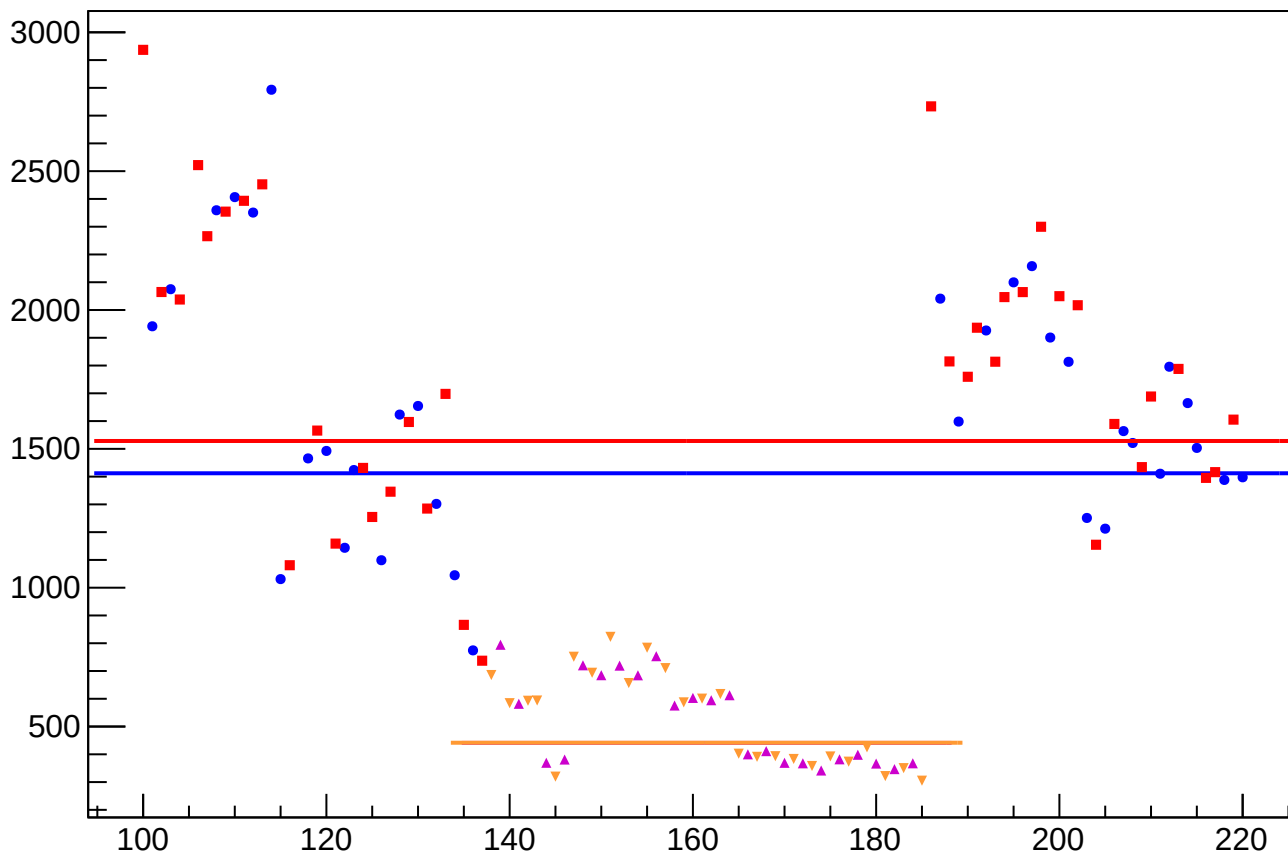
Right: -228.872 ± 246.930 $\chi^2/\text{NDF}: 106.4/70$

In: -176.462 ± 104.842 $\chi^2/\text{NDF}: 92.2/56$

Out: -195.831 ± 103.471 $\chi^2/\text{NDF}: 102.2/61$

All: -186.274 ± 73.645 $\chi^2/\text{NDF}: 194.4/118$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1412.068 $\pm$ 0.240 χ^2 /NDF: 2930856.0/33

Left Out: 441.685 $\pm$ 0.076 χ^2 /NDF:3169140.9/24

Right Out: 1528.315 $\pm$ 0.255 χ^2 /NDF: 2986445.0/36

Left In: 441.009 $\pm$ 0.078 χ^2 /NDF:2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2 /NDF: 5766197.3/47

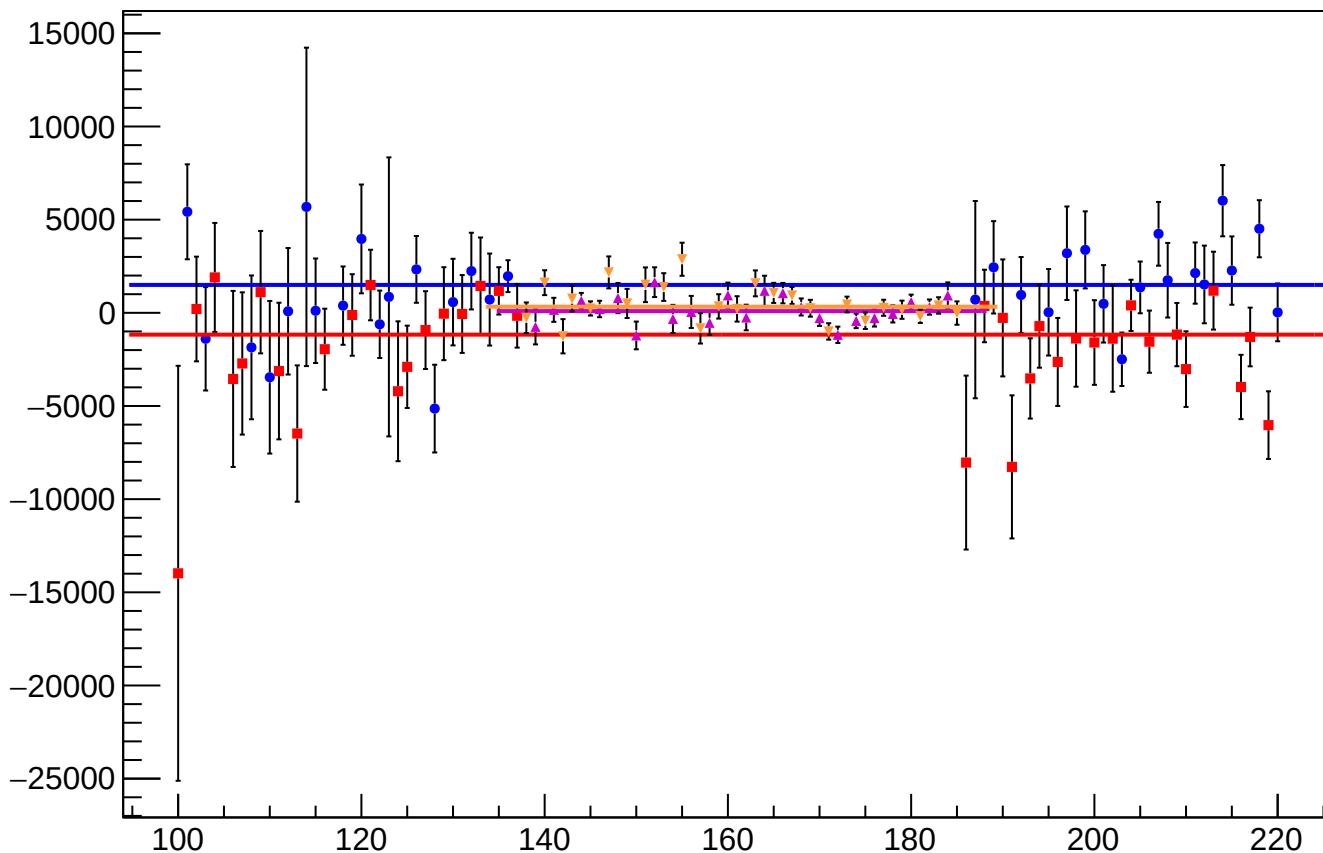
Right: 1466.579 $\pm$ 0.175 χ^2 /NDF: 6027685.4/70

In: 533.976 $\pm$ 0.074 χ^2 /NDF:20381452.0/56

Out: 531.153 $\pm$ 0.073 χ^2 /NDF:22821429.0/61

All: 532.546 $\pm$ 0.052 χ^2 /NDF: 43203615.3/11

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1497.541 $\pm$ 340.824 χ^2 /NDF: 40.7/33

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -1171.440 $\pm$ 362.713 χ^2 /NDF: 36.1/36

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF: 33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

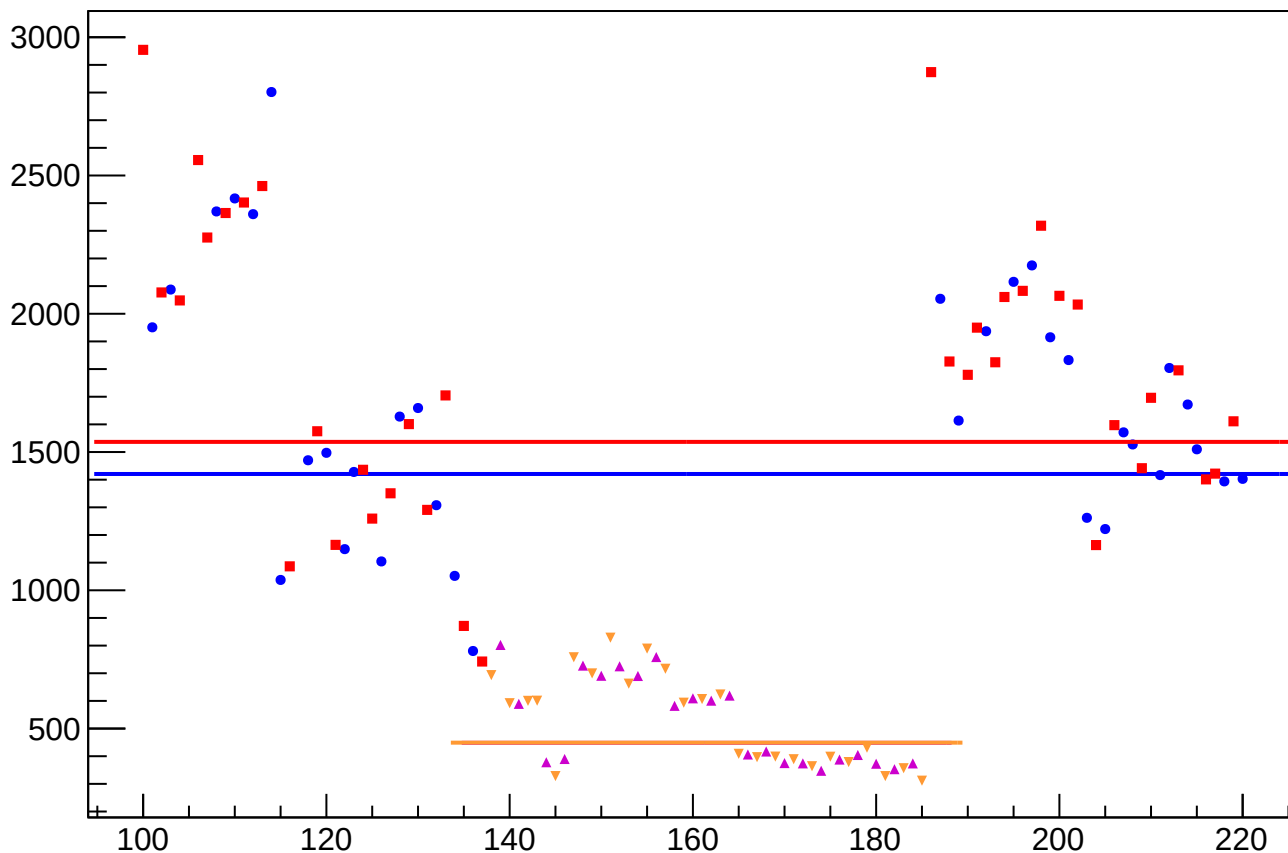
Right: 246.008 $\pm$ 248.377 χ^2 /NDF: 105.5/70

In: 230.082 $\pm$ 106.368 χ^2 /NDF: 89.4/56

Out: 202.953 $\pm$ 104.975 χ^2 /NDF: 99.5/61

All: 216.339 $\pm$ 74.716 χ^2 /NDF: 188.9/118

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1420.604 $\pm$ 0.241 χ^2 /NDF: 2919481.7/33

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF: 3090476.2/24

Right Out: 1536.690 $\pm$ 0.256 χ^2 /NDF: 3006118.4/36

Left In: 448.307 $\pm$ 0.079 χ^2 /NDF: 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2 /NDF: 5627893.2/47

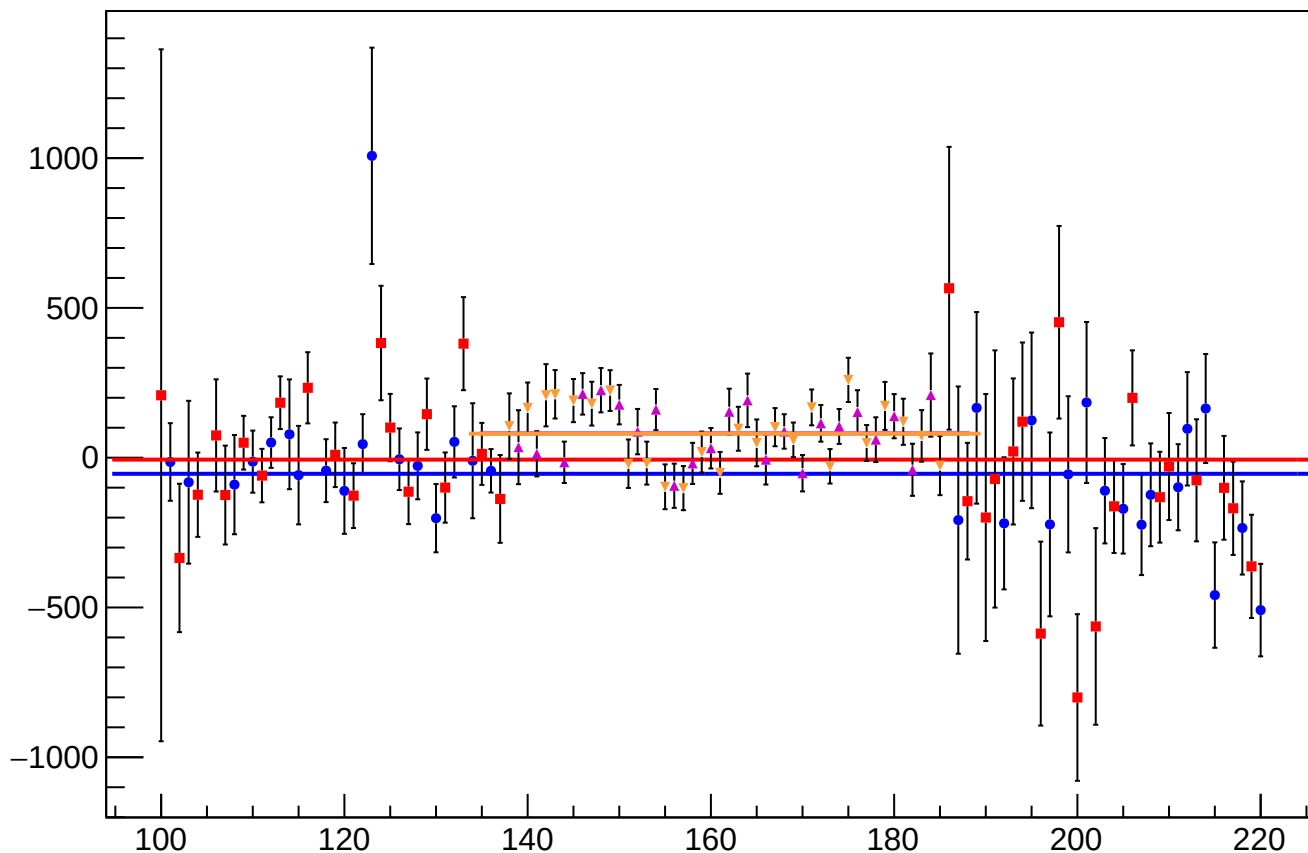
Right: 1475.039 $\pm$ 0.176 χ^2 /NDF: 6034400.1/70

In: 543.008 $\pm$ 0.075 χ^2 /NDF: 20148214.6/56

Out: 540.122 $\pm$ 0.074 χ^2 /NDF: 22574812.0/61

All: 541.546 $\pm$ 0.053 χ^2 /NDF: 42723773.0/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -53.772 ± 24.606 χ^2/NDF : 37.0/33

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: -6.436 ± 24.434 χ^2/NDF : 57.5/36

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

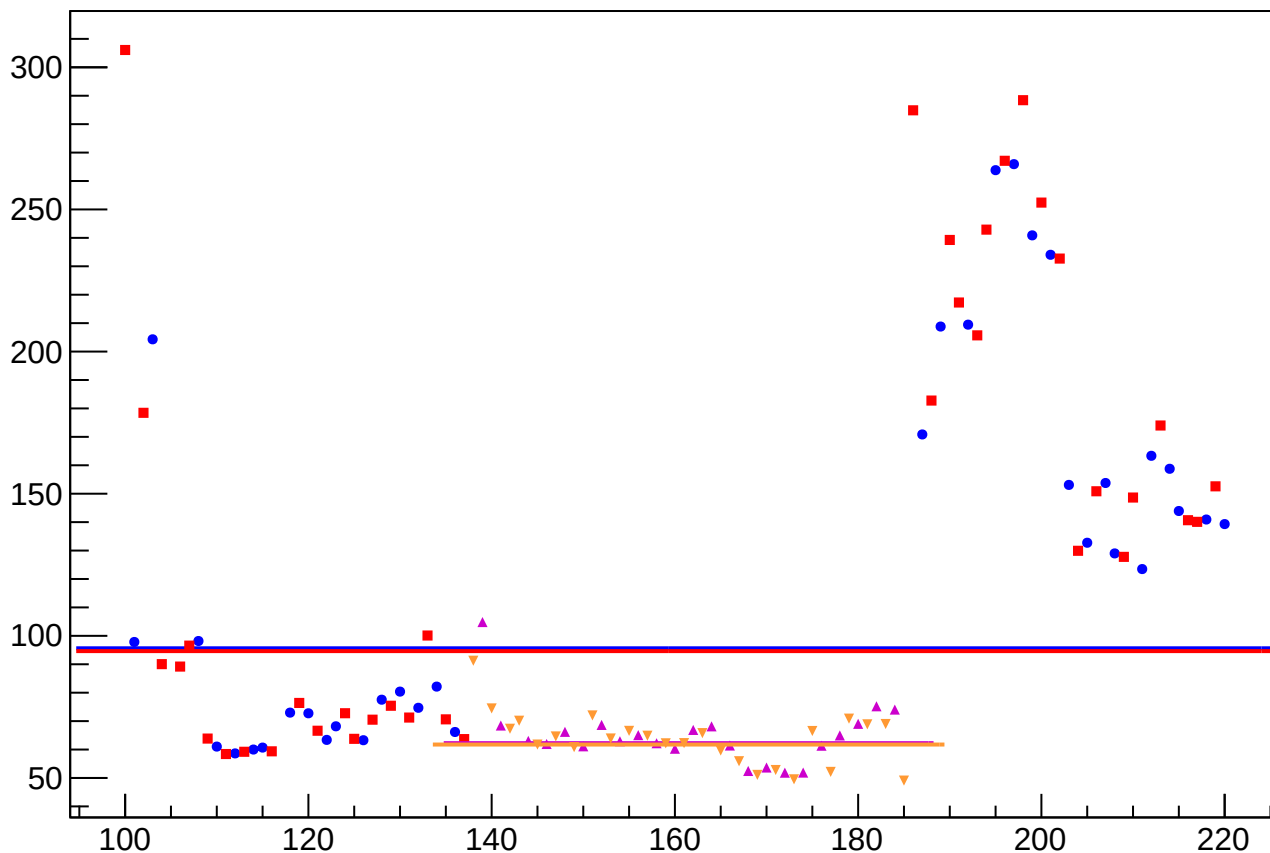
Right: -29.939 ± 17.338 χ^2/NDF : 96.4/70

In: 44.224 ± 12.873 χ^2/NDF : 94.1/56

Out: 57.402 ± 12.528 χ^2/NDF : 115.3/61

All: 50.992 ± 8.978 χ^2/NDF : 210.0/118

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 95.617 $\pm$ 0.017 χ^2 /NDF: 7116670.8/33

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 94.629 $\pm$ 0.017 χ^2 /NDF: 8182273.6/36

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

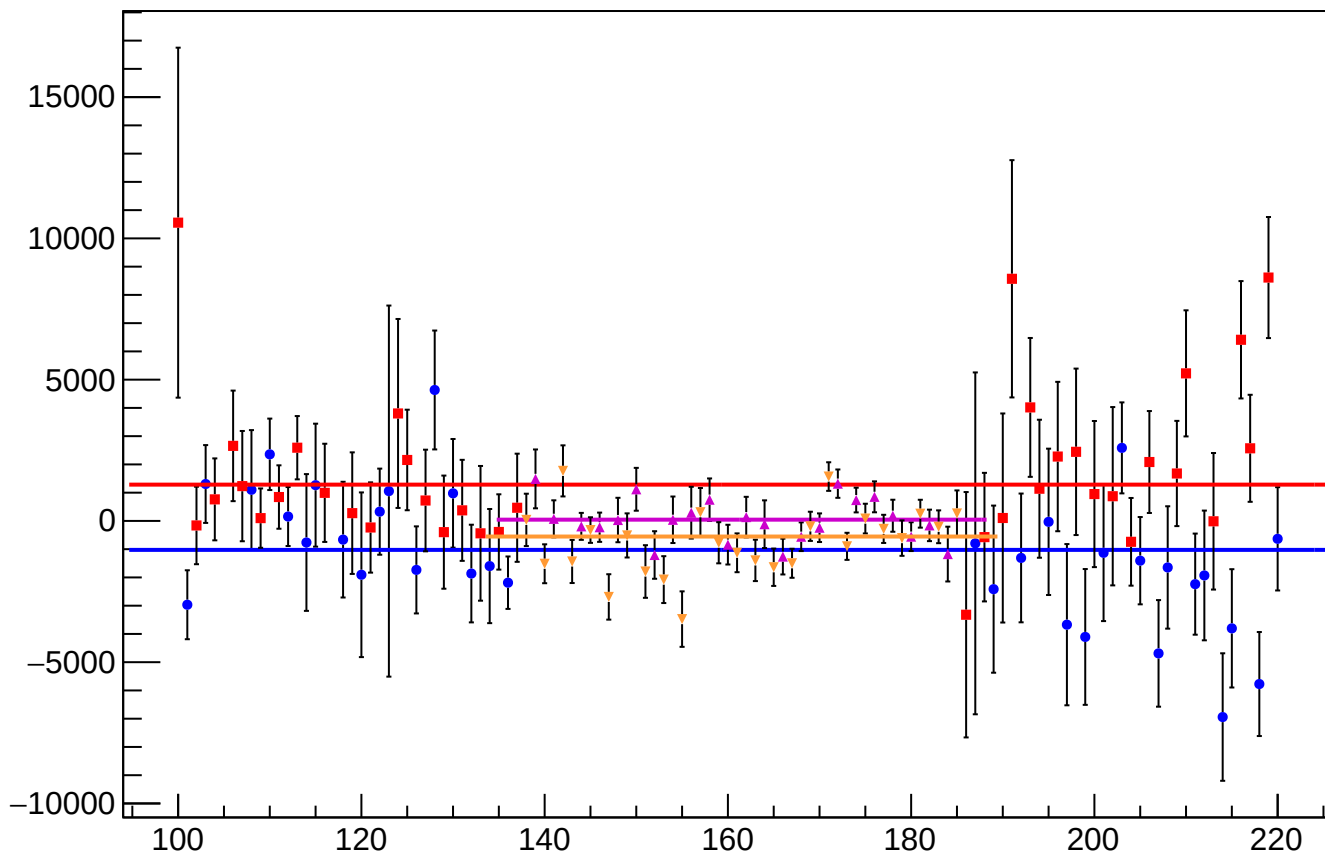
Right: 95.120 $\pm$ 0.012 χ^2 /NDF: 15300568.0/70

In: 71.383 $\pm$ 0.009 χ^2 /NDF: 10378943.9/56

Out: 70.402 $\pm$ 0.009 χ^2 /NDF: 11495359.2/61

All: 70.879 $\pm$ 0.006 χ^2 /NDF: 21880272.7/118

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1025.108 ± 307.315 $\chi^2/\text{NDF}: 55.2/33$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1284.621 ± 306.976 $\chi^2/\text{NDF}: 42.1/36$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

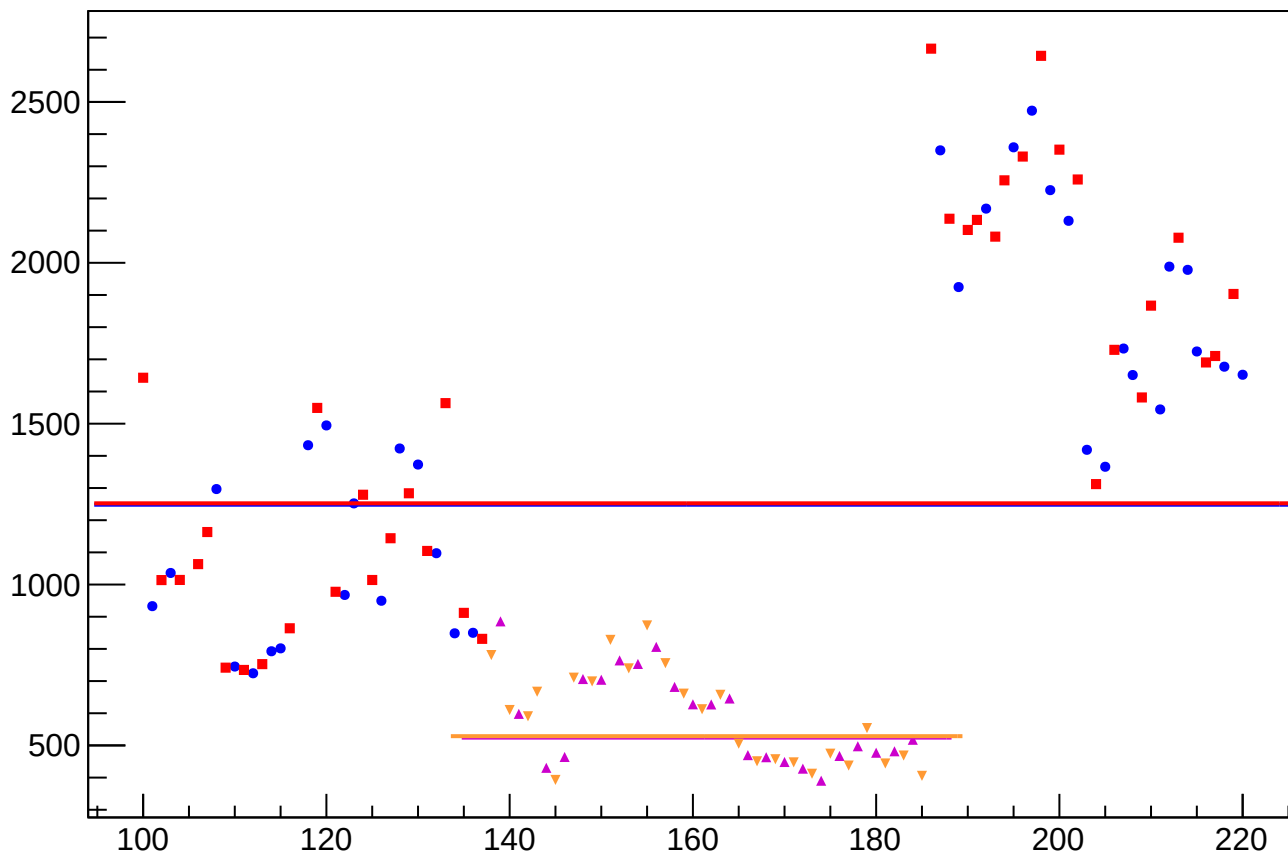
Right: 131.032 ± 217.184 $\chi^2/\text{NDF}: 125.6/70$

In: -115.867 ± 119.020 $\chi^2/\text{NDF}: 95.0/56$

Out: -284.092 ± 117.338 $\chi^2/\text{NDF}: 138.0/61$

All: -201.176 ± 83.559 $\chi^2/\text{NDF}: 234.1/118$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1248.113 $\pm$ 0.217 χ^2 /NDF: 4663938.4/33

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1252.495 $\pm$ 0.217 χ^2 /NDF: 5555542.5/36

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

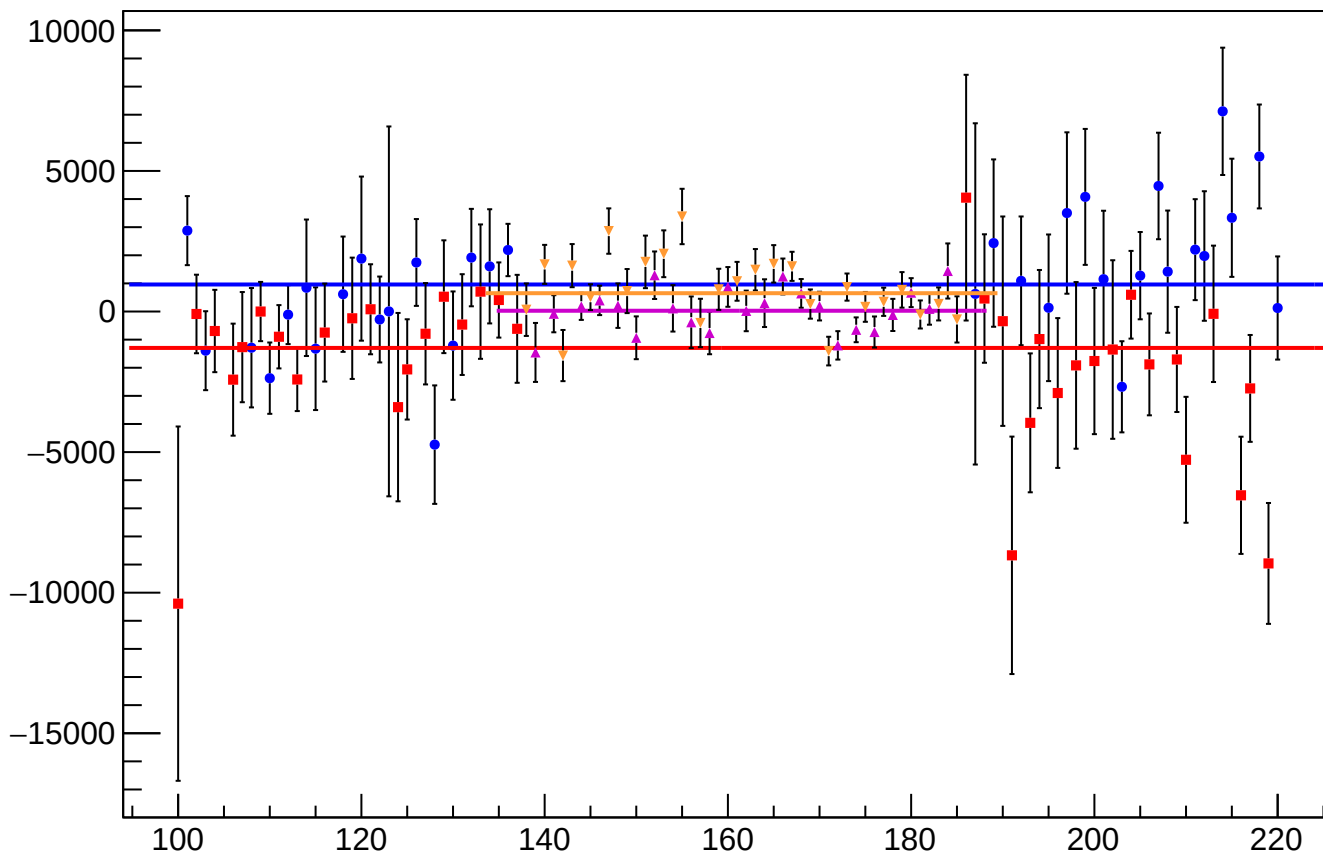
Right: 1250.306 $\pm$ 0.154 χ^2 /NDF: 10219684.4/70

In: 632.840 $\pm$ 0.084 χ^2 /NDF:15811582.5/56

Out: 634.483 $\pm$ 0.083 χ^2 /NDF:17032456.5/61

All: 633.673 $\pm$ 0.059 χ^2 /NDF: 32844232.2/117

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 961.457 $\pm$ 308.723 χ^2/NDF : 54.2/33

Left Out: 651.560 $\pm$ 127.961 χ^2/NDF : 61.1/24

Right Out: -1294.962 $\pm$ 308.487 χ^2/NDF : 42.6/36

Left In: 27.483 $\pm$ 130.127 χ^2/NDF : 28.5/22

Left: 344.758 $\pm$ 91.238 χ^2/NDF : 101.2/47

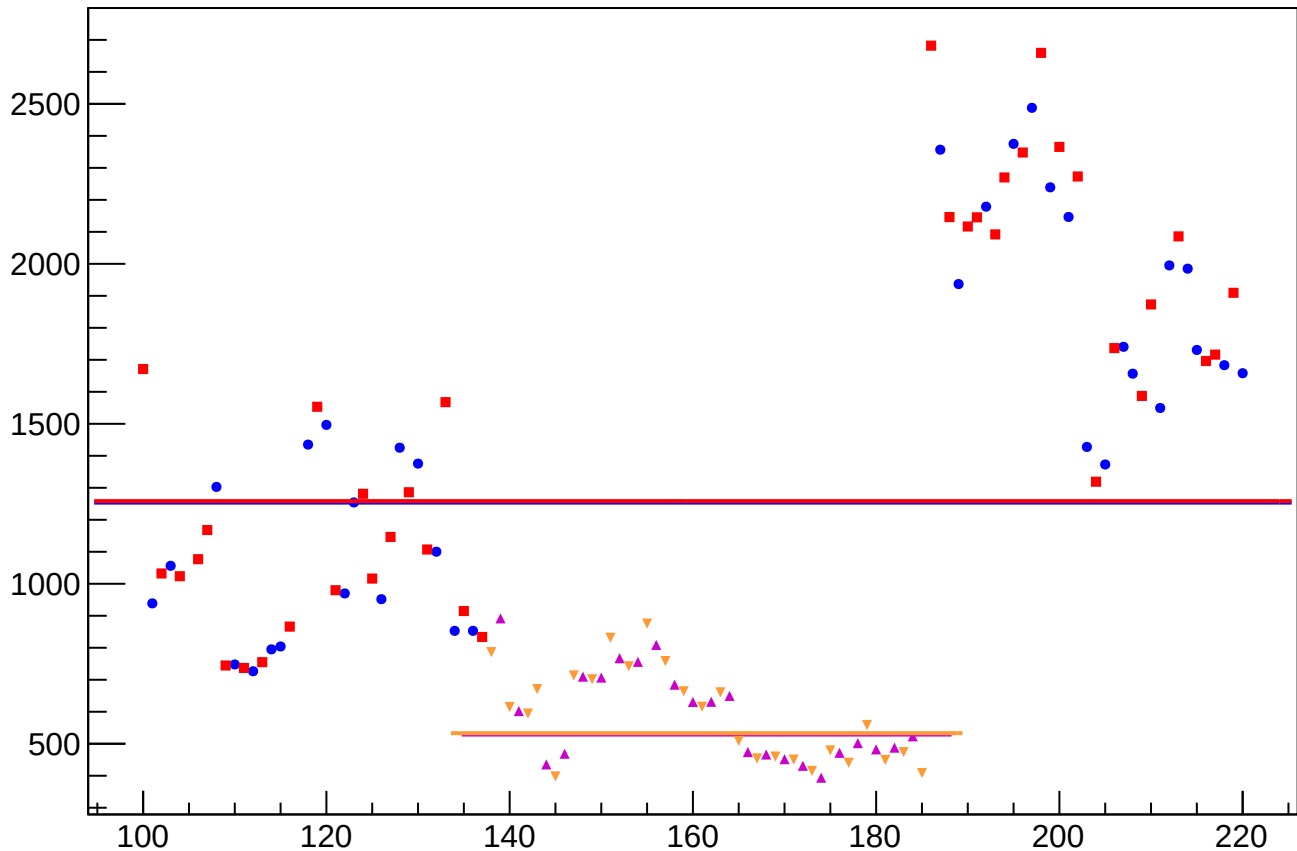
Right: -167.616 $\pm$ 218.217 χ^2/NDF : 123.6/70

In: 168.382 $\pm$ 119.910 χ^2/NDF : 90.4/56

Out: 365.807 $\pm$ 118.196 χ^2/NDF : 137.7/61

All: 268.516 $\pm$ 84.177 χ^2/NDF : 229.5/118

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1253.777 $\pm$ 0.218 χ^2 /NDF: 4667156.3/33

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1258.429 $\pm$ 0.218 χ^2 /NDF: 5560514.2/36

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF: 1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

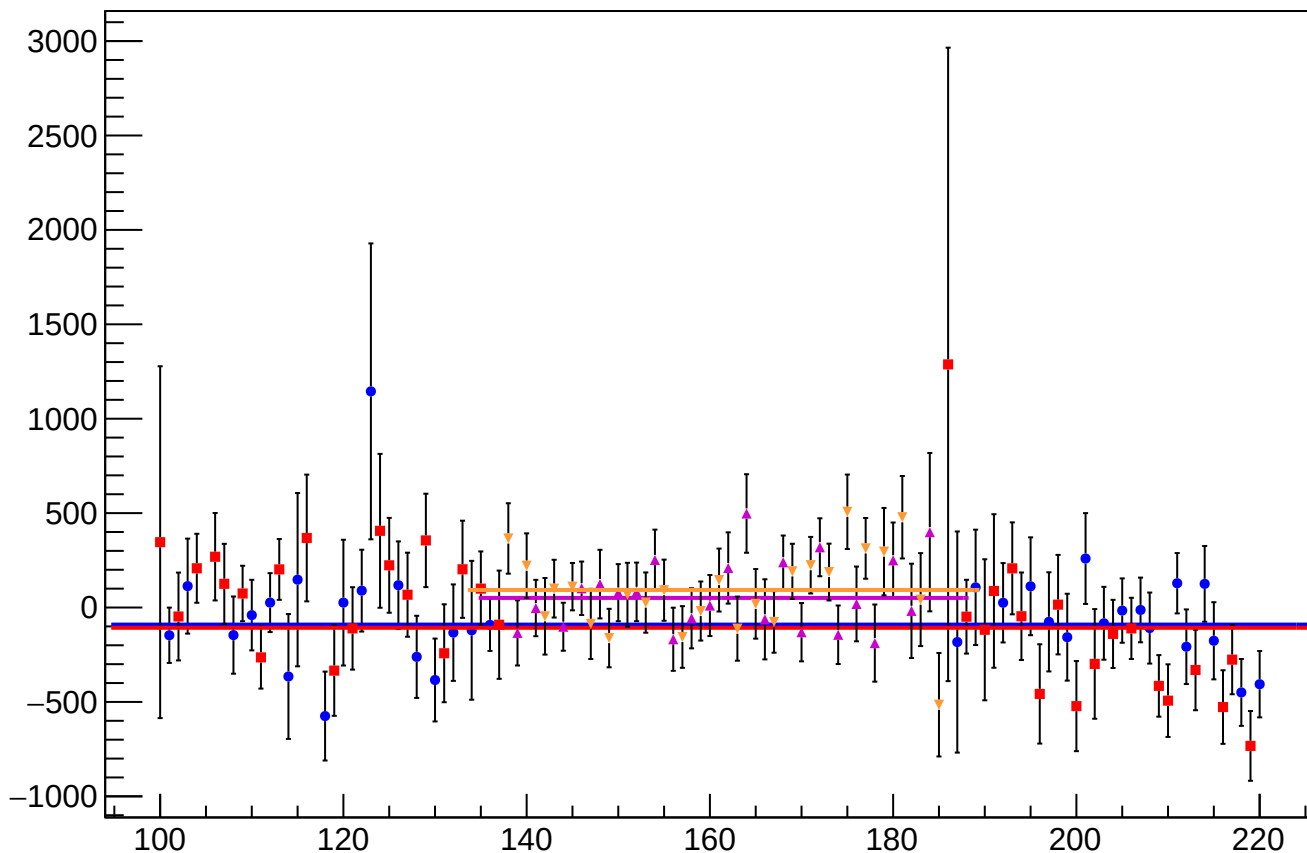
Right: 1256.105 $\pm$ 0.154 χ^2 /NDF: 10227897.8/70

In: 638.080 $\pm$ 0.085 χ^2 /NDF: 15723642.2/56

Out: 639.546 $\pm$ 0.084 χ^2 /NDF: 16946654.1/61

All: 638.823 $\pm$ 0.060 χ^2 /NDF: 32670447.9/131

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -90.448 ± 36.295 $\chi^2/\text{NDF}: 28.1/33$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -107.292 ± 36.275 $\chi^2/\text{NDF}: 60.3/36$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

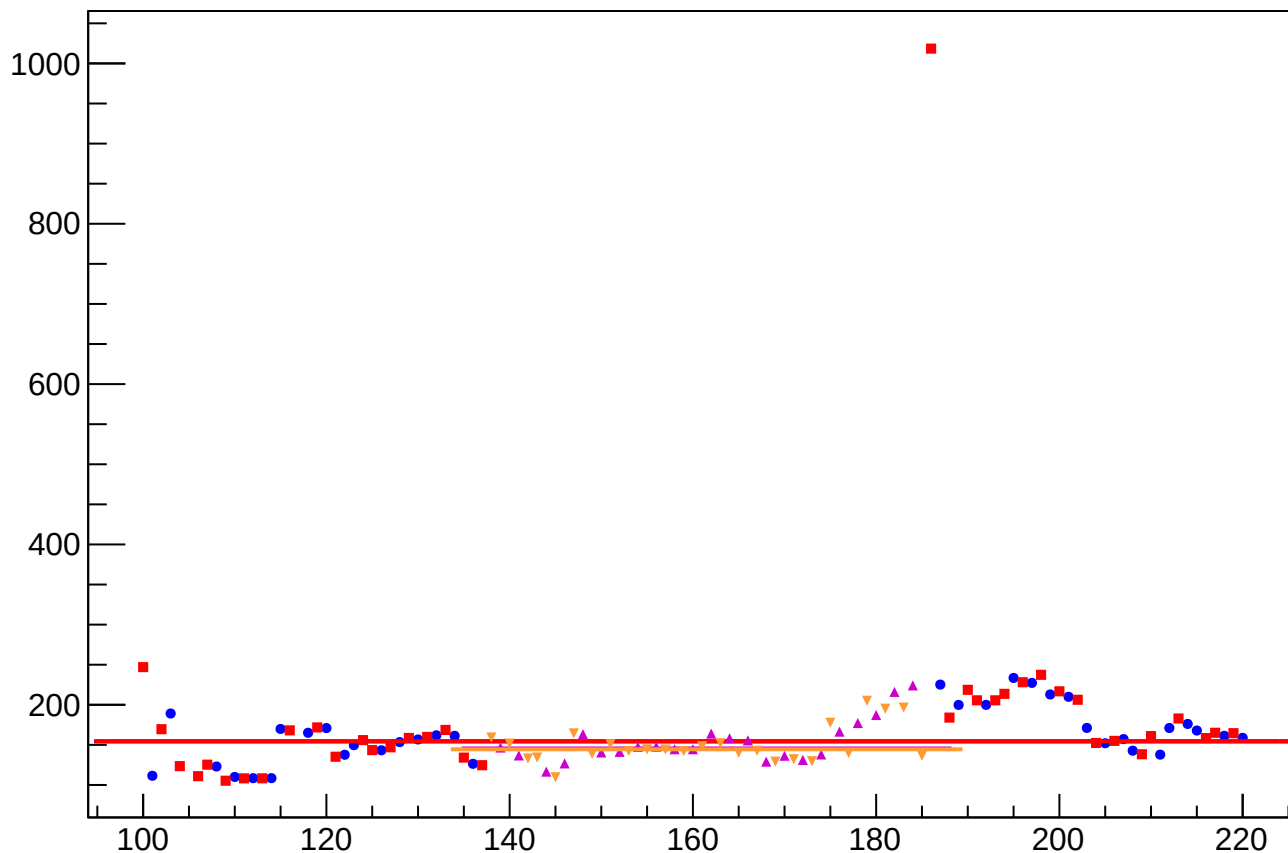
Right: -98.874 ± 25.657 $\chi^2/\text{NDF}: 88.5/70$

In: -17.772 ± 25.298 $\chi^2/\text{NDF}: 59.4/56$

Out: -0.829 ± 24.828 $\chi^2/\text{NDF}: 105.9/61$

All: -9.141 ± 17.720 $\chi^2/\text{NDF}: 165.5/118$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.339 $\pm$ 0.026 χ^2 /NDF: 1534749.3/33

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.578 $\pm$ 0.026 χ^2 /NDF: 2337469.8/36

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

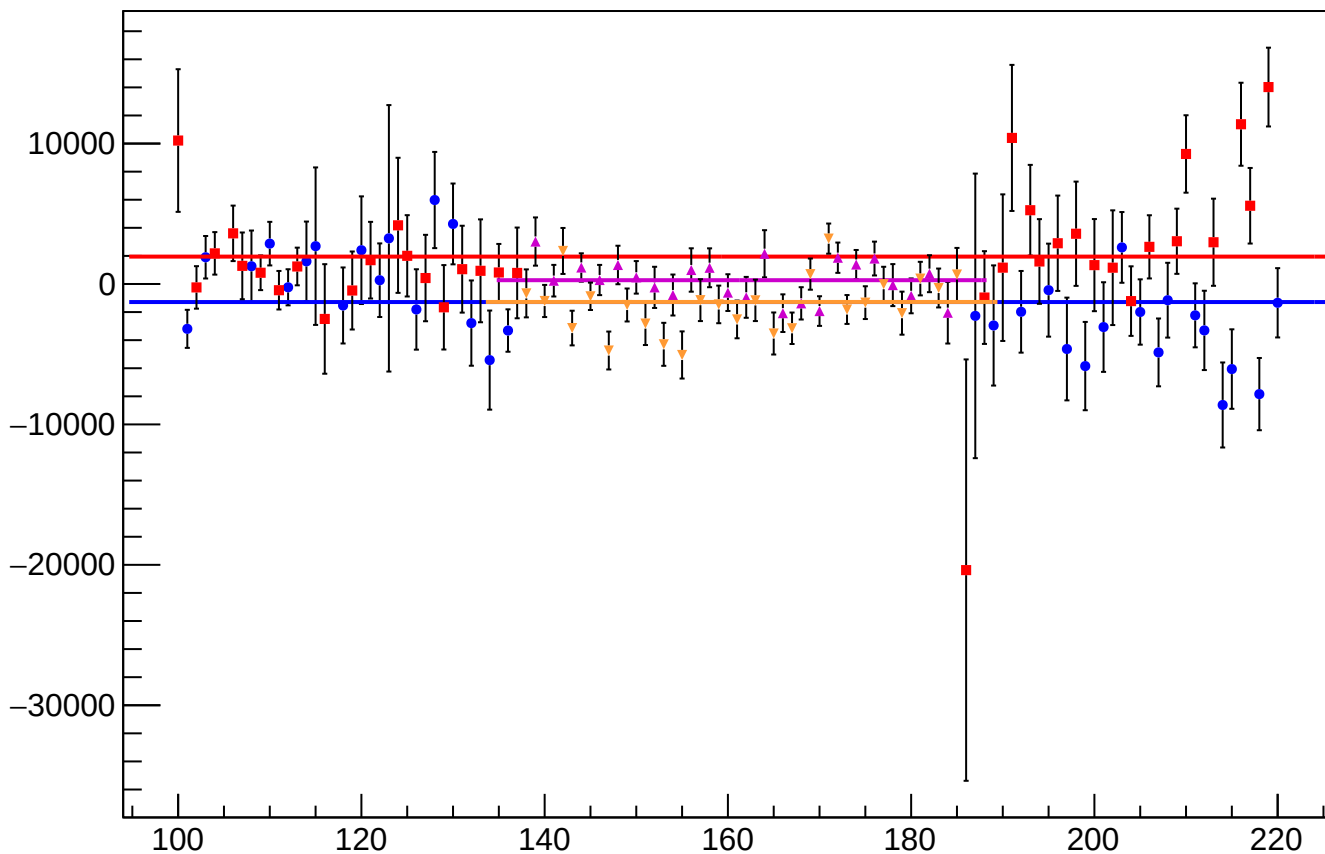
Right: 154.459 $\pm$ 0.018 χ^2 /NDF: 3872262.4/70

In: 149.812 $\pm$ 0.018 χ^2 /NDF: 2238791.4/56

Out: 149.208 $\pm$ 0.018 χ^2 /NDF: 3090416.6/61

All: 149.504 $\pm$ 0.013 χ^2 /NDF: 5329789.2/118

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1286.046 $\pm$ 418.867 χ^2 /NDF: 54.1/33

Left Out: -1279.328 $\pm$ 259.299 χ^2 /NDF:55.9/24

Right Out: 1950.243 $\pm$ 402.880 χ^2 /NDF: 61.0/36

Left In: 269.952 $\pm$ 266.245 χ^2 /NDF:24.3/22

Left: -525.161 $\pm$ 185.759 χ^2 /NDF: 97.6/47

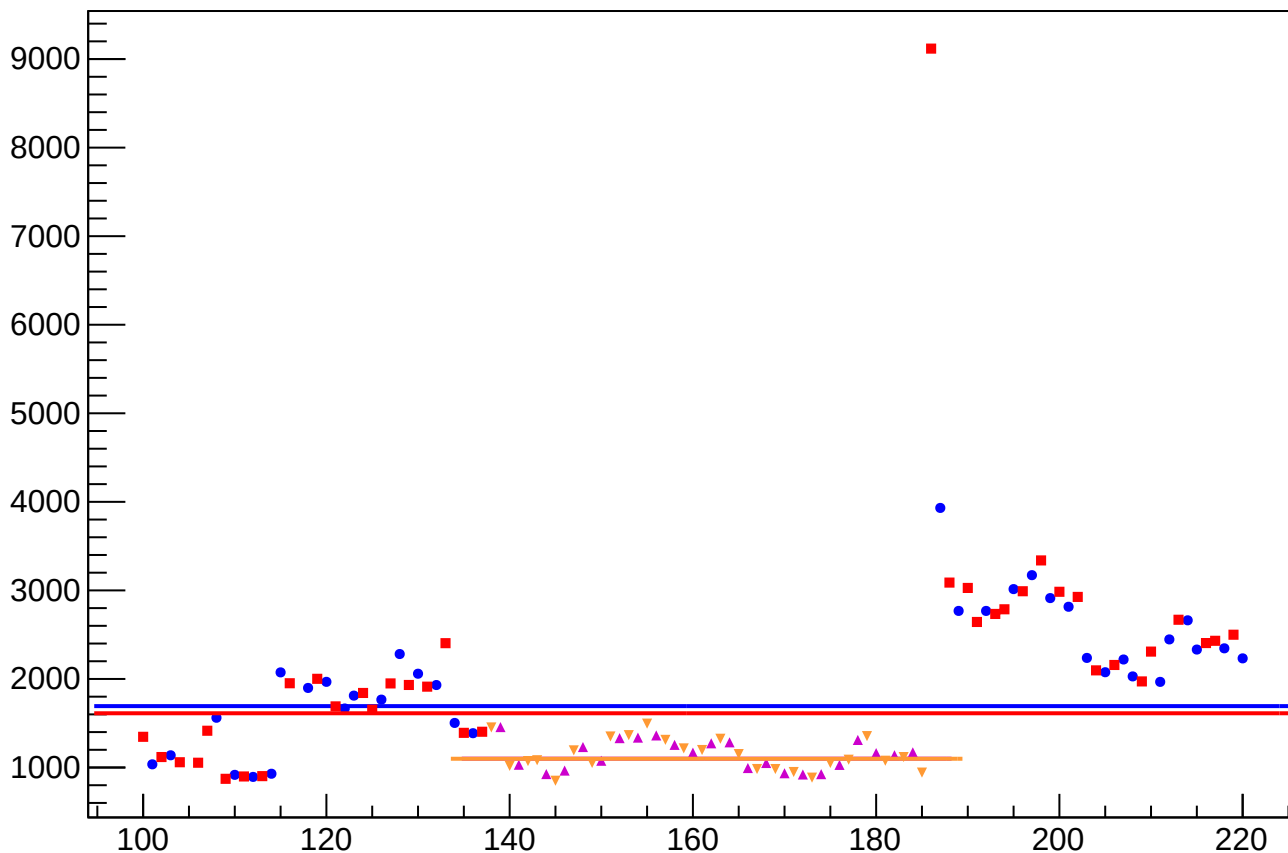
Right: 395.035 $\pm$ 290.366 χ^2 /NDF: 146.1/70

In: -177.808 $\pm$ 224.695 χ^2 /NDF:88.3/56

Out: -333.368 $\pm$ 218.042 χ^2 /NDF:162.3/61

All: -257.925 $\pm$ 156.478 χ^2 /NDF: 250.8/118

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1693.302 ± 0.296 $\chi^2/\text{NDF}: 5055511.3/33$

Left Out: 1098.909 ± 0.183 $\chi^2/\text{NDF}: 824328.7/24$

Right Out: 1612.527 ± 0.285 $\chi^2/\text{NDF}: 6848334.4/36$

Left In: 1099.585 ± 0.188 $\chi^2/\text{NDF}: 679896.1/22$

Left: 1099.238 ± 0.131 $\chi^2/\text{NDF}: 1504231.4/47$

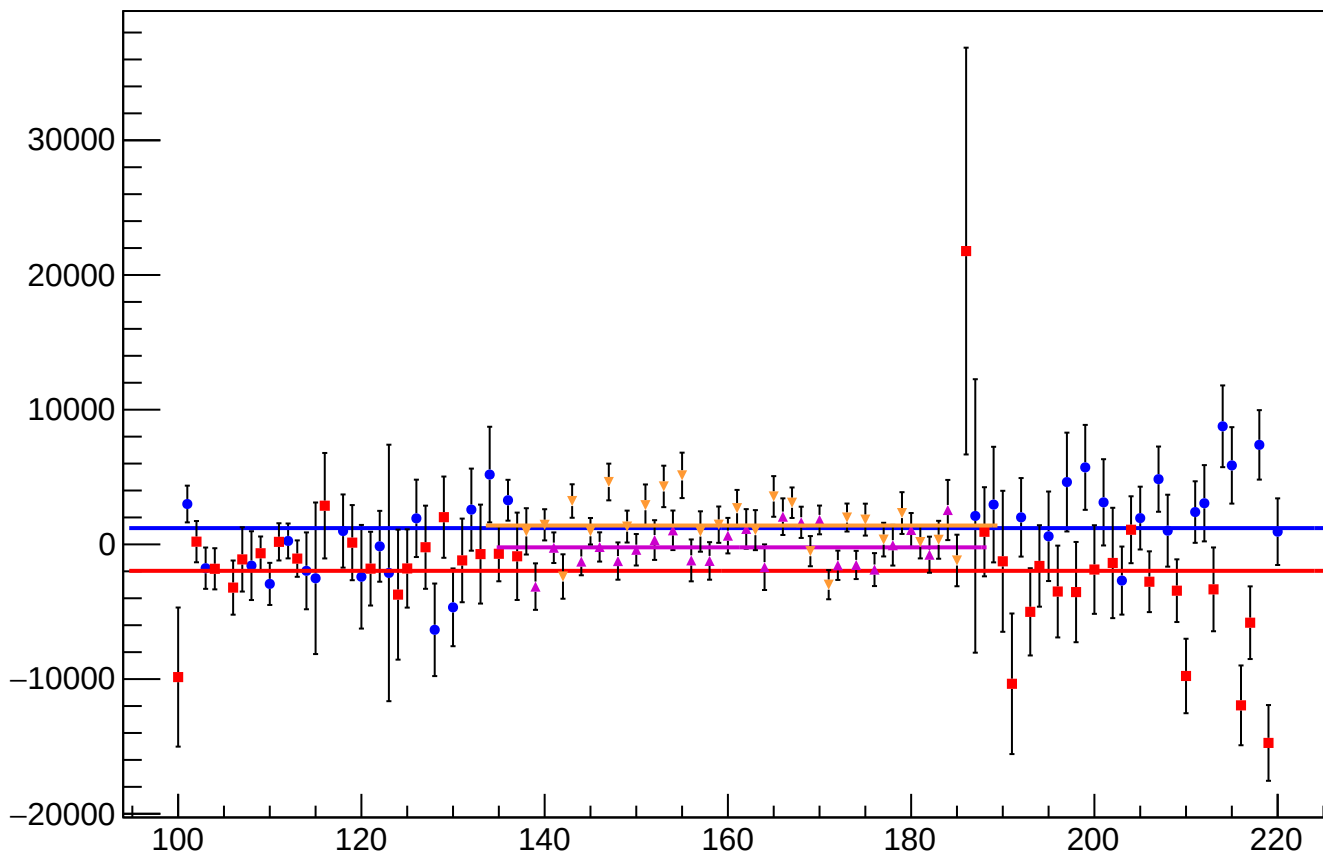
Right: 1651.344 ± 0.205 $\chi^2/\text{NDF}: 11942480.5/70$

In: 1270.435 ± 0.159 $\chi^2/\text{NDF}: 8597359.1/56$

Out: 1249.351 ± 0.154 $\chi^2/\text{NDF}: 9971123.2/61$

All: 1259.576 ± 0.111 $\chi^2/\text{NDF}: 18577552.4/1$

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1208.820+/-421.006 χ^2/NDF : 53.2/33

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1963.477+/-405.352 χ^2/NDF : 65.2/36

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

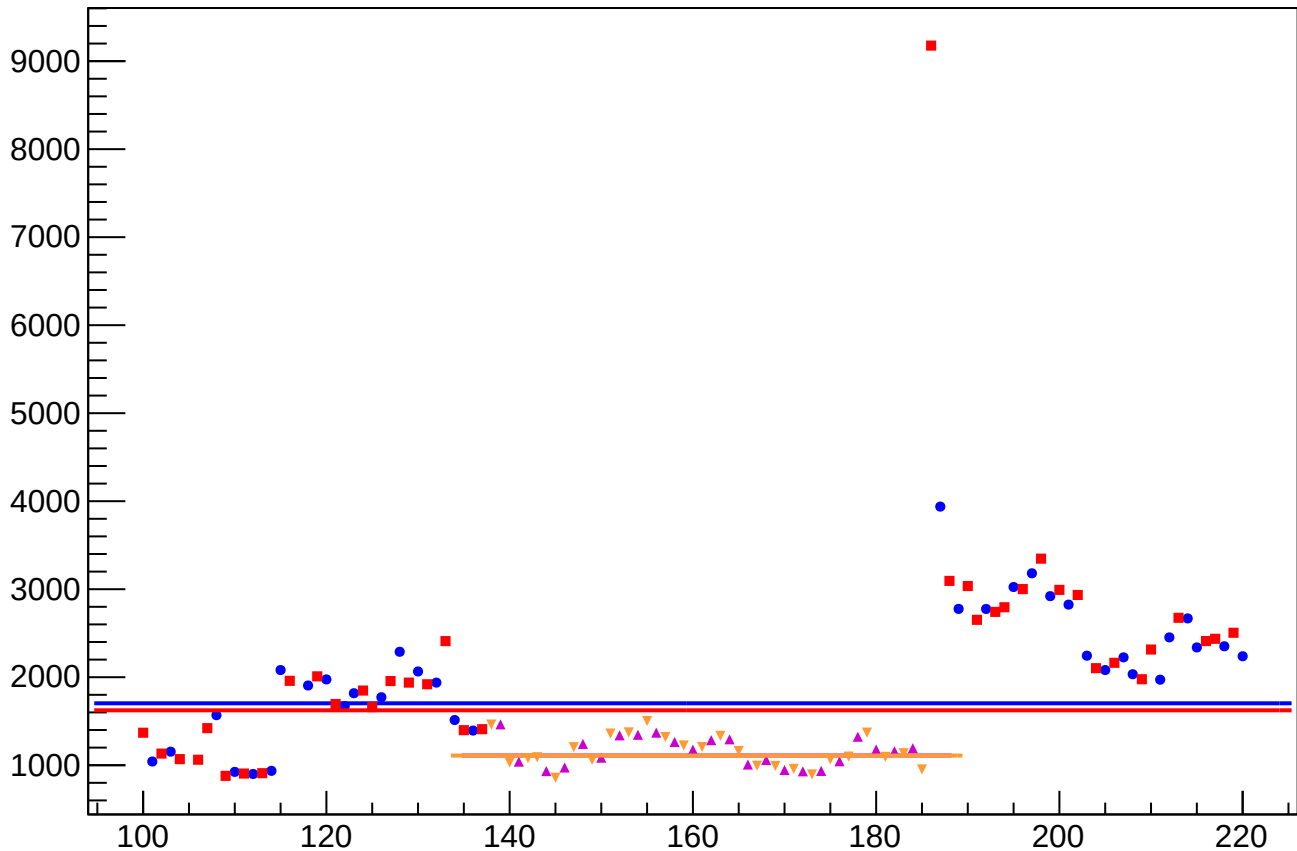
Right: -437.402+/-292.004 χ^2/NDF : 147.8/70

In: 194.322+/-226.591 χ^2/NDF : 86.4/56

Out: 410.263+/-219.922 χ^2/NDF : 166.0/61

All: 305.517+/-157.813 χ^2/NDF : 252.9/118

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1703.425 $\pm$ 0.298 χ^2/NDF : 5000227.1/33

Left Out: 1109.761 $\pm$ 0.185 χ^2/NDF : 812174.9/24

Right Out: 1623.983 $\pm$ 0.287 χ^2/NDF : 6777257.7/36

Left In: 1110.542 $\pm$ 0.190 χ^2/NDF : 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2/NDF : 1482112.5/47

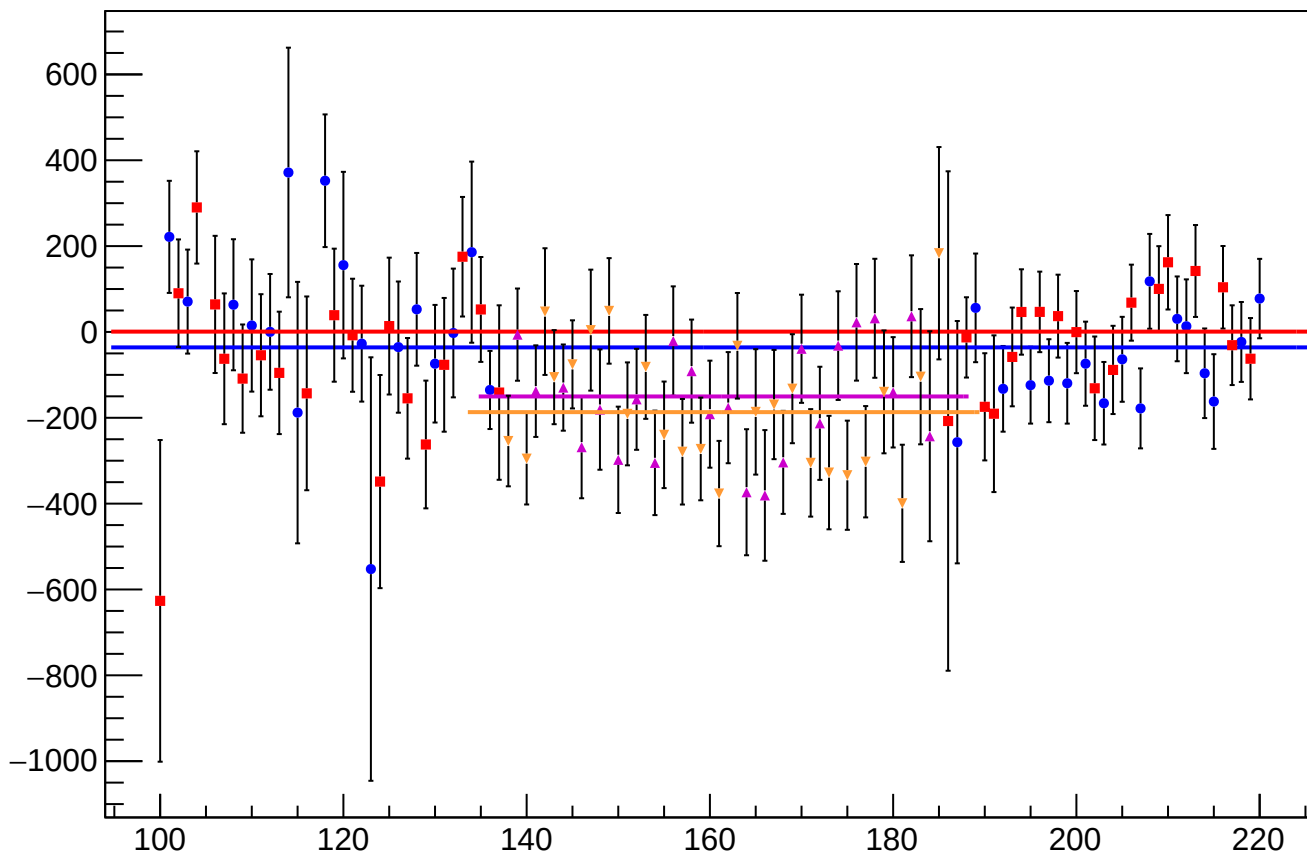
Right: 1662.200 $\pm$ 0.206 χ^2/NDF : 11814438.8/70

In: 1282.284 $\pm$ 0.160 χ^2/NDF : 8487562.0/56

Out: 1261.126 $\pm$ 0.156 χ^2/NDF : 9860616.7/61

All: 1271.389 $\pm$ 0.112 χ^2/NDF : 18357158.3/1

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -35.995 ± 20.509 χ^2/NDF : 33.2/33

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 0.756 ± 20.237 χ^2/NDF : 32.4/36

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

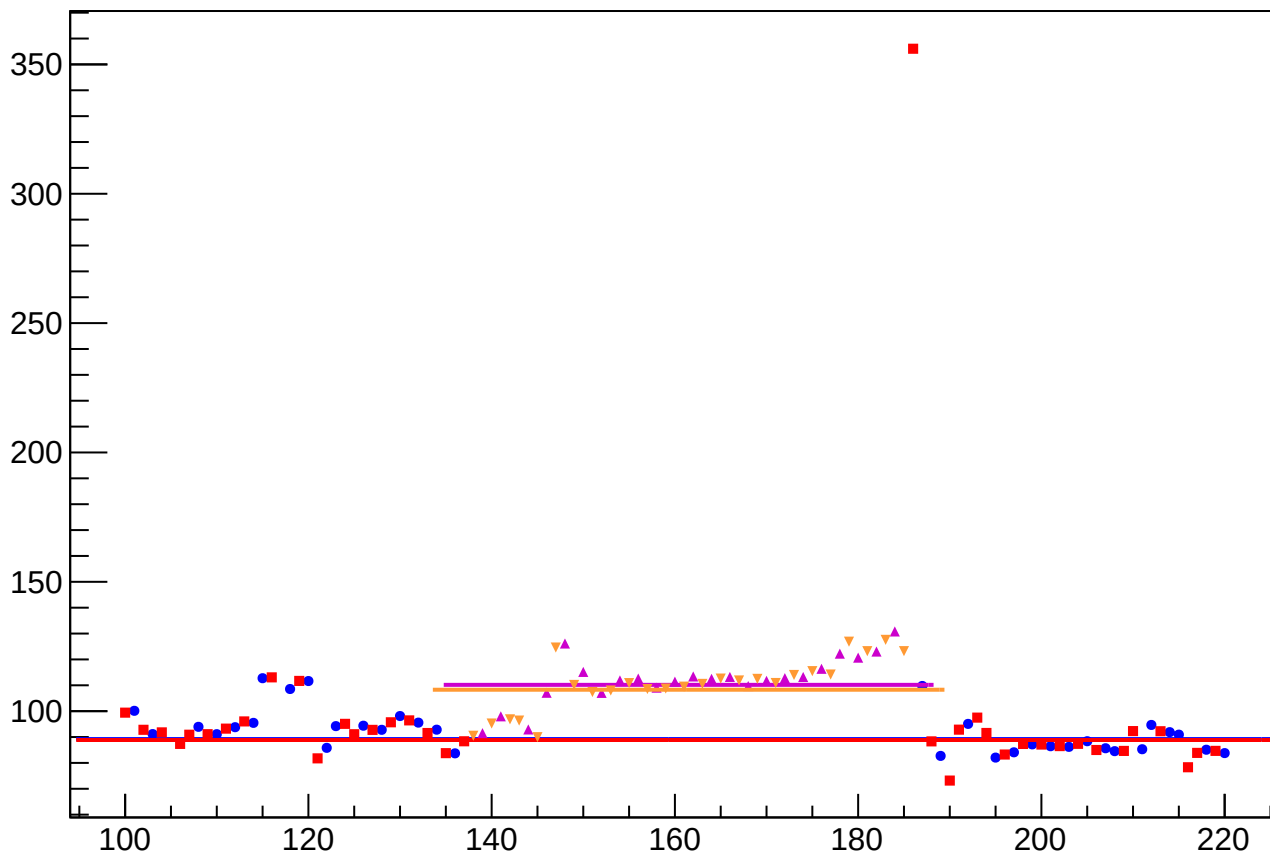
Right: -17.374 ± 14.405 χ^2/NDF : 67.2/70

In: -78.929 ± 16.206 χ^2/NDF : 65.5/56

Out: -72.409 ± 15.805 χ^2/NDF : 92.5/61

All: -75.587 ± 11.315 χ^2/NDF : 158.1/118

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.201 $\pm$ 0.015 χ^2 /NDF: 182780.9/33

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 88.856 $\pm$ 0.014 χ^2 /NDF: 623201.1/36

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

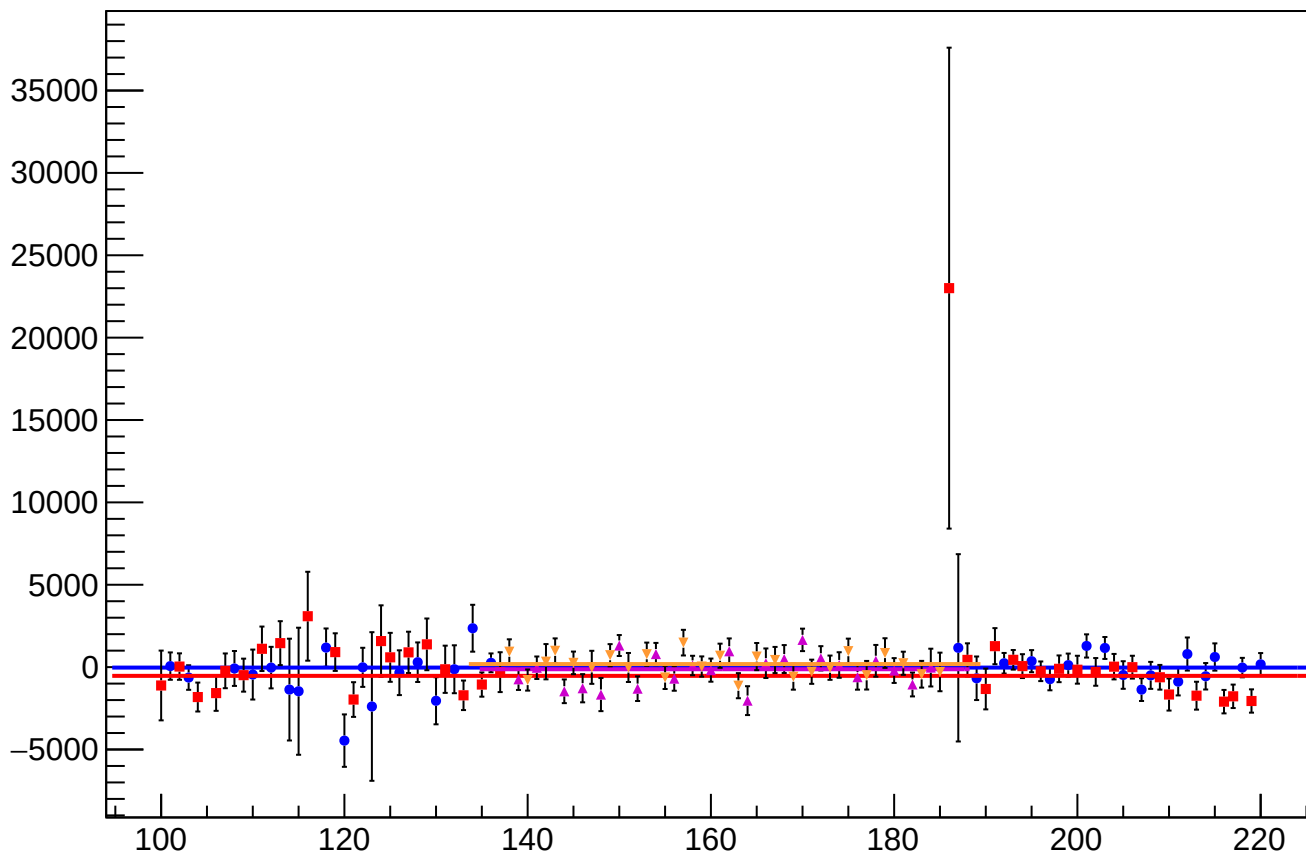
Right: 89.026 $\pm$ 0.010 χ^2 /NDF: 806267.7/70

In: 97.077 $\pm$ 0.011 χ^2 /NDF: 1215220.0/56

Out: 96.435 $\pm$ 0.011 χ^2 /NDF: 1673046.5/61

All: 96.748 $\pm$ 0.008 χ^2 /NDF: 2889876.8/118

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -28.325 ± 153.628 $\chi^2/\text{NDF}: 31.2/33$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -530.553 ± 152.524 $\chi^2/\text{NDF}: 47.1/36$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

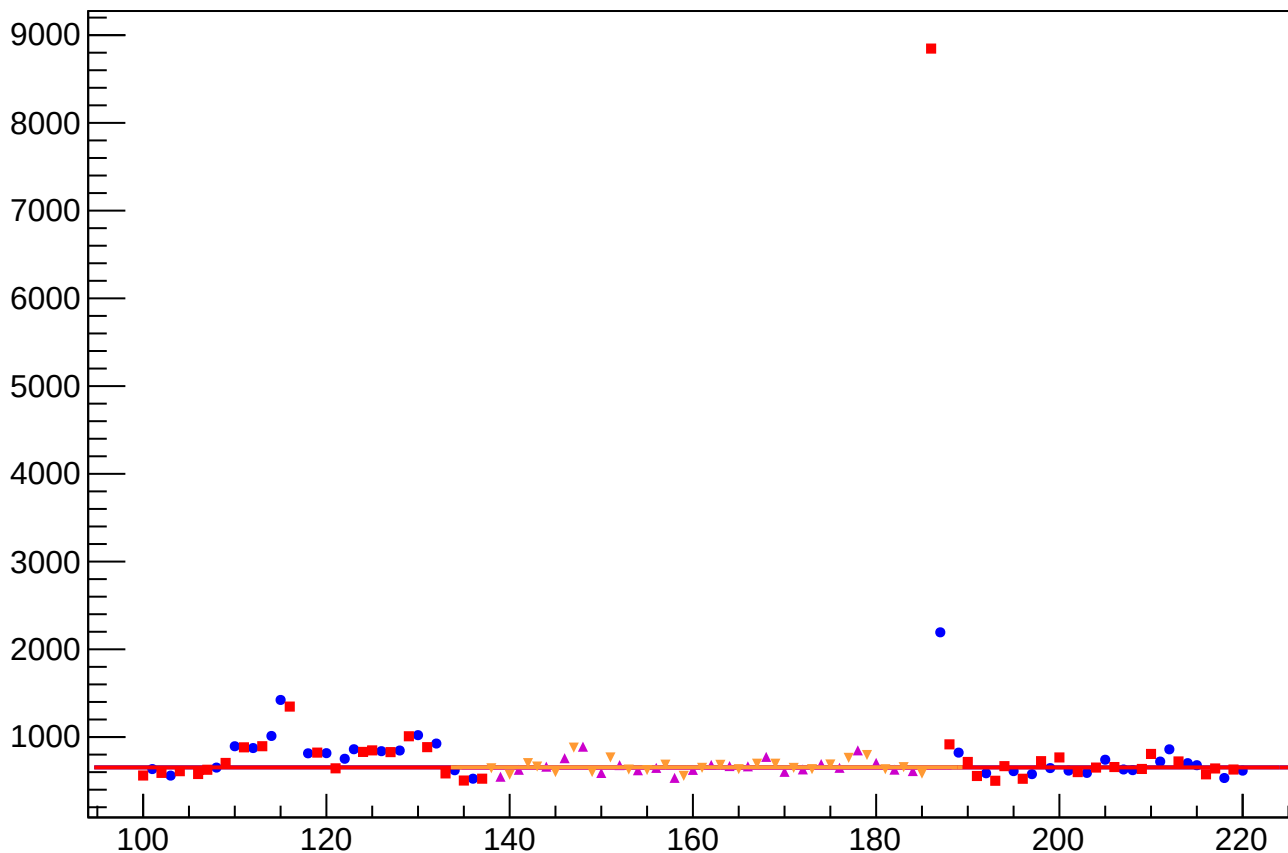
Right: -281.251 ± 108.239 $\chi^2/\text{NDF}: 83.7/70$

In: -77.413 ± 109.857 $\chi^2/\text{NDF}: 67.6/56$

Out: -175.291 ± 108.258 $\chi^2/\text{NDF}: 76.5/61$

All: -127.070 ± 77.109 $\chi^2/\text{NDF}: 144.5/118$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 654.654+/-0.109 χ^2/NDF : 1202852.8/33

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 653.851+/-0.108 χ^2/NDF : 1856707.6/36

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

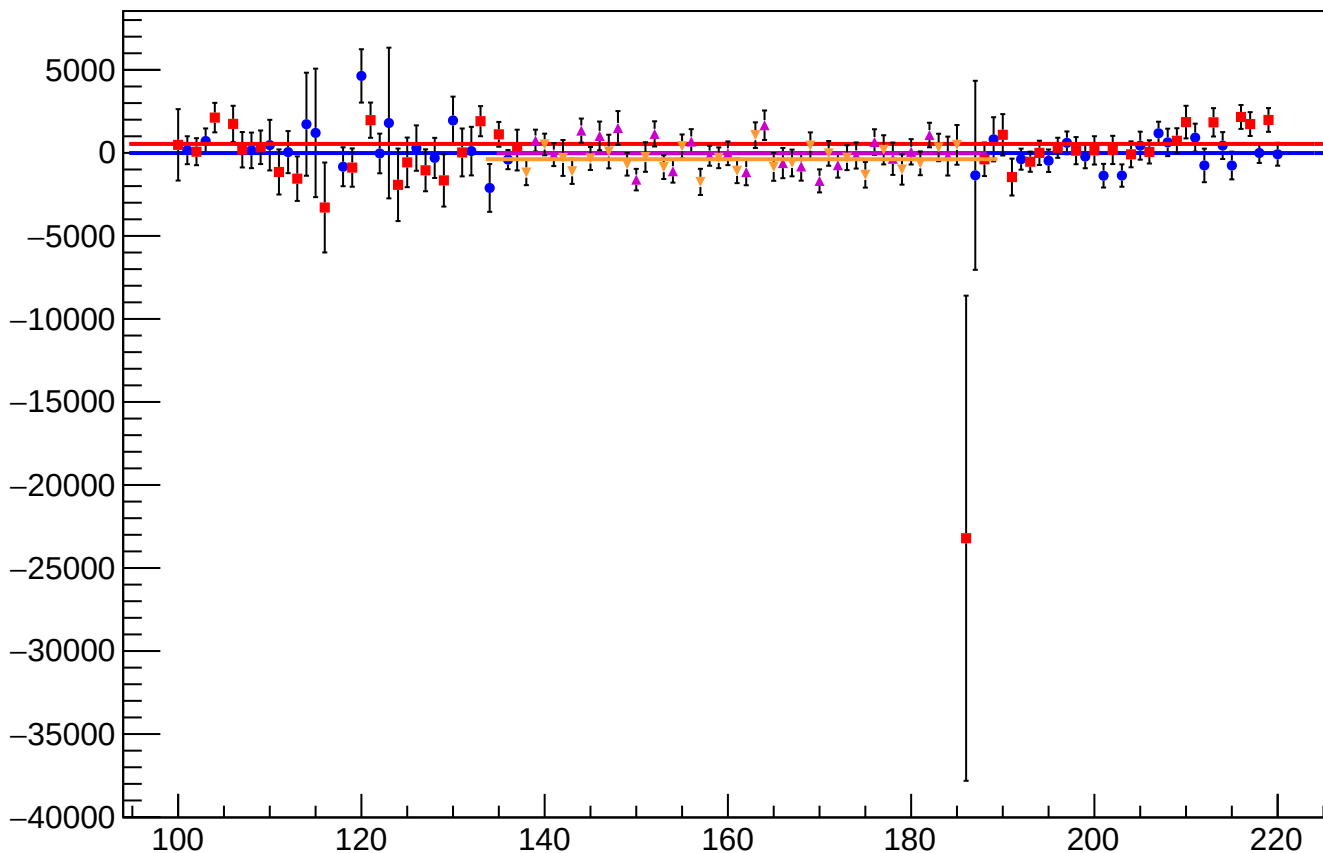
Right: 654.250+/-0.077 χ^2/NDF : 3059587.9/70

In: 652.811+/-0.078 χ^2/NDF : 1669558.4/56

Out: 654.498+/-0.077 χ^2/NDF : 2224129.9/61

All: 653.667+/-0.055 χ^2/NDF : 3893927.6/118

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -9.740 ± 155.171 χ^2/NDF : 31.7/33

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 540.174 ± 154.093 χ^2/NDF : 51.3/36

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

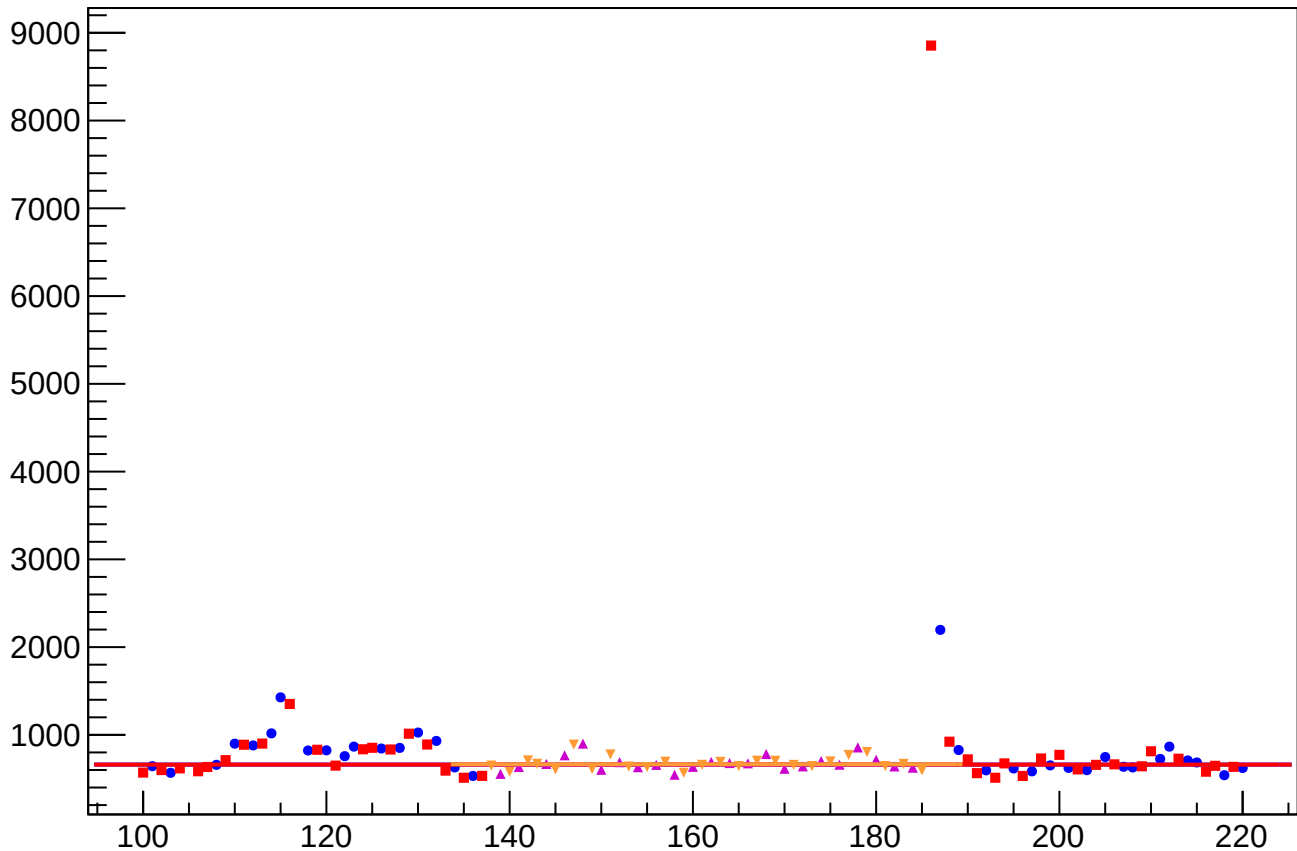
Right: 267.134 ± 109.340 χ^2/NDF : 89.3/70

In: -12.185 ± 111.226 χ^2/NDF : 68.9/56

Out: 85.689 ± 109.591 χ^2/NDF : 87.7/61

All: 37.477 ± 78.064 χ^2/NDF : 157.0/118

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 661.625+/-0.110 χ^2/NDF : 1174817.8/33

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.067+/-0.109 χ^2/NDF : 1819303.1/36

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

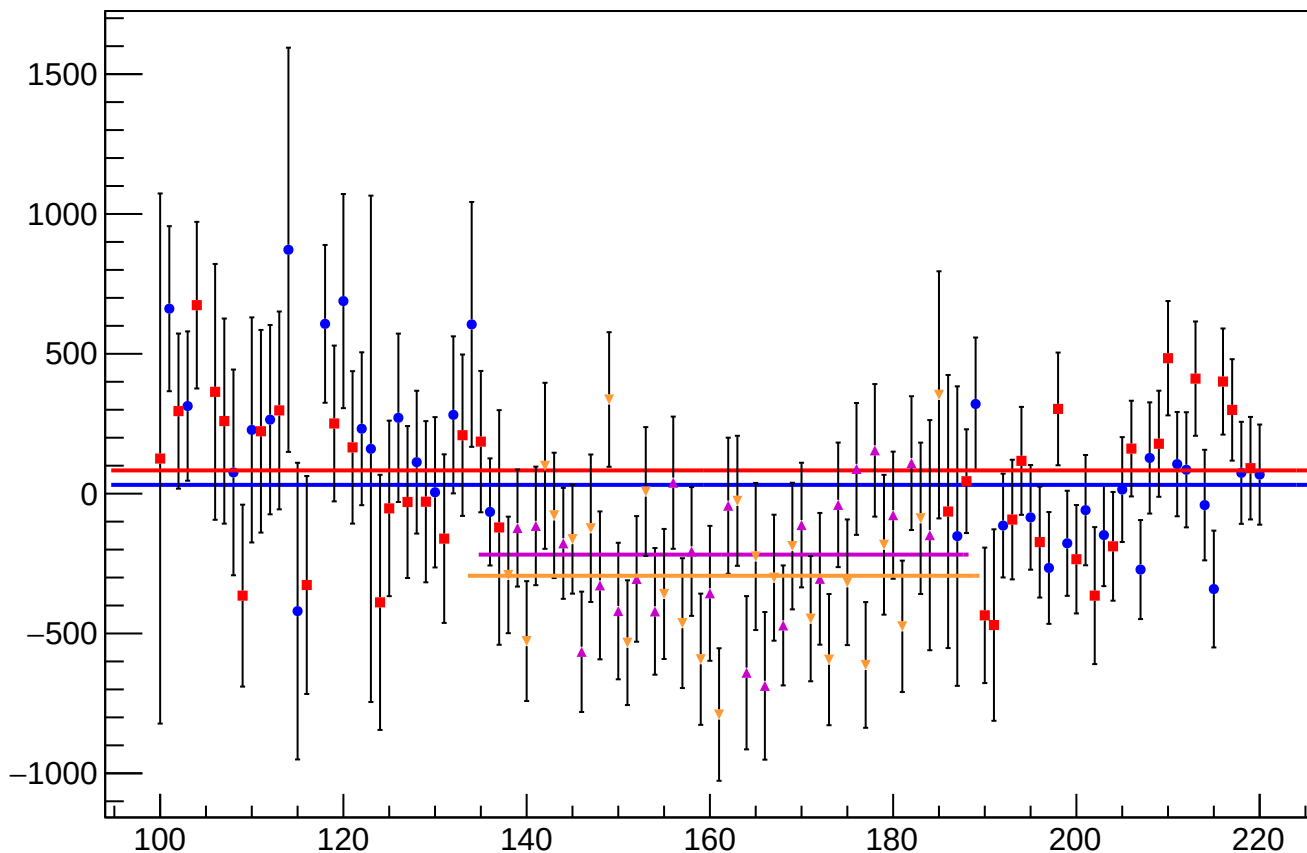
Right: 661.344+/-0.077 χ^2/NDF : 2994133.9/70

In: 661.268+/-0.079 χ^2/NDF : 1624019.6/56

Out: 662.898+/-0.077 χ^2/NDF : 2176928.6/61

All: 662.095+/-0.055 χ^2/NDF : 3801166.2/118

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

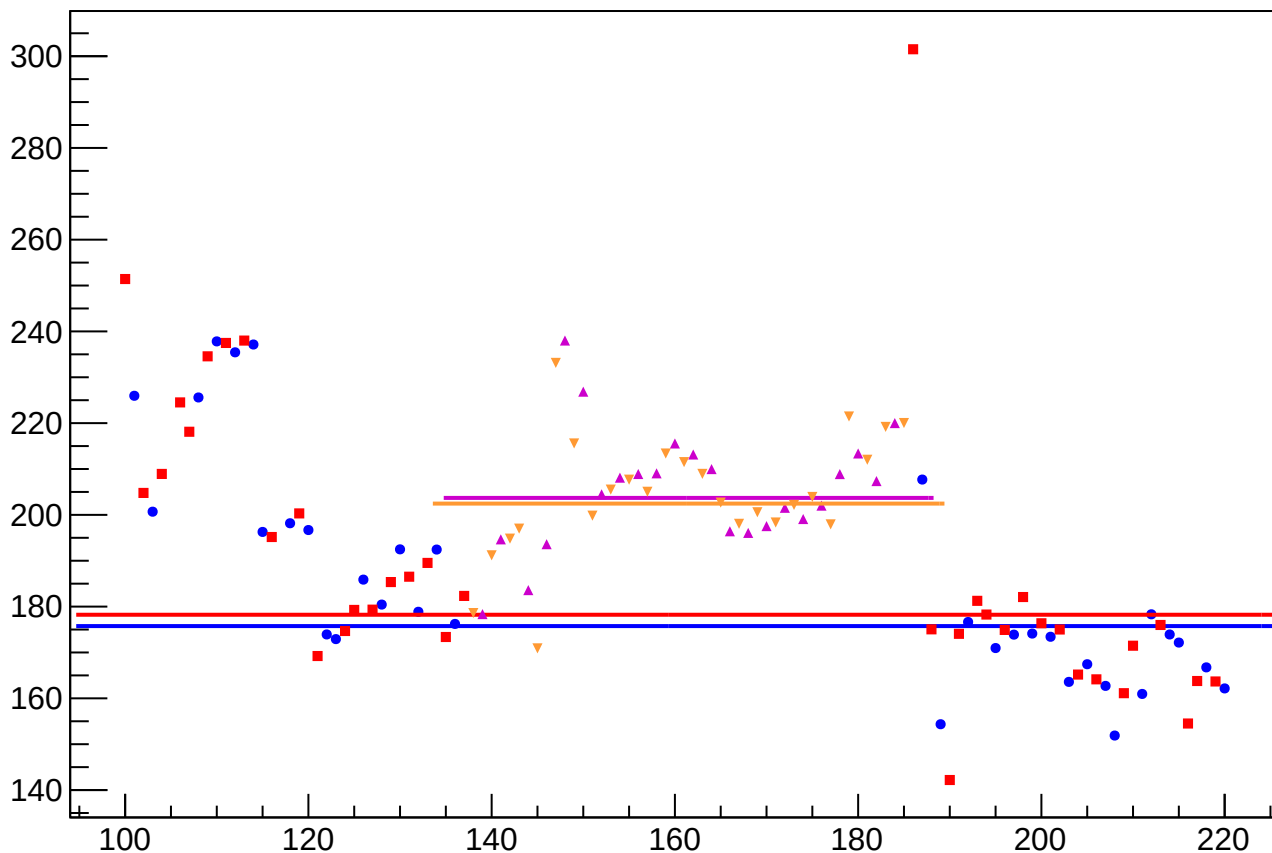


Right In: 31.386 ± 40.543 $\chi^2/\text{NDF}: 33.7/33$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 83.074 ± 40.635 $\chi^2/\text{NDF}: 41.9/36$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 57.172 ± 28.701 $\chi^2/\text{NDF}: 76.4/70$
 In: -70.393 ± 31.190 $\chi^2/\text{NDF}: 70.4/56$
 Out: -77.249 ± 30.796 $\chi^2/\text{NDF}: 108.8/61$

All: -73.865 ± 21.914 $\chi^2/\text{NDF}: 179.3/118$

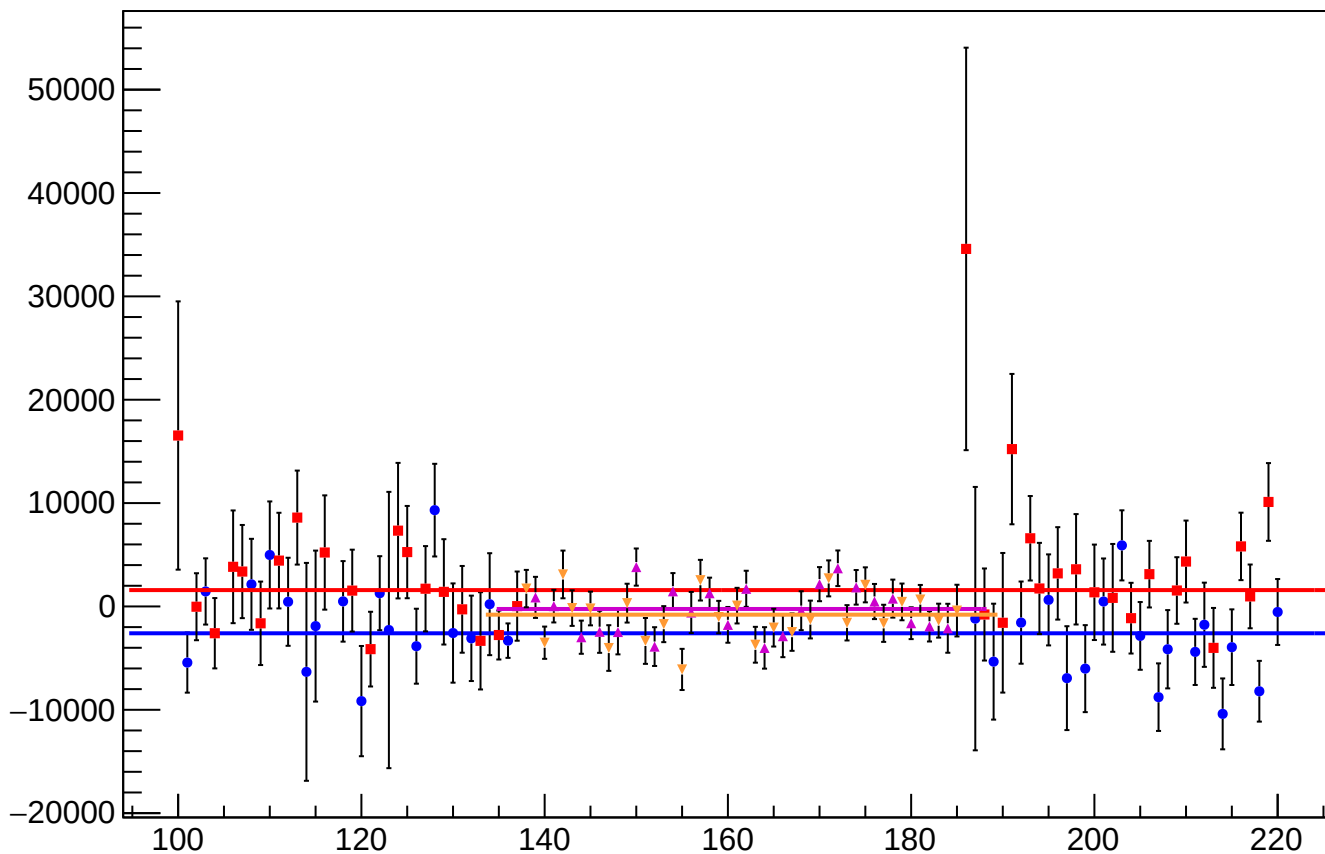
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 175.753+/-0.029 χ^2/NDF : 379678.7/33
 Left Out: 202.459+/-0.033 χ^2/NDF :158582.3/24
 Right Out: 178.224+/-0.029 χ^2/NDF : 564475.7/36
 Left In: 203.699+/-0.035 χ^2/NDF :136193.4/22

Left: 203.058+/-0.024 χ^2/NDF : 295442.7/47
 Right: 176.986+/-0.020 χ^2/NDF : 947862.4/70
 In: 187.160+/-0.022 χ^2/NDF :903743.7/56
 Out: 188.539+/-0.022 χ^2/NDF :1025849.7/61
 All: 187.858+/-0.015 χ^2/NDF : 1931575.1/118

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2597.083+/-647.882 χ^2/NDF : 40.1/33

Left Out: -796.528+/-357.851 χ^2/NDF : 35.7/24

Right Out: 1581.431+/-675.346 χ^2/NDF : 35.0/36

Left In: -245.102+/-369.846 χ^2/NDF : 35.7/22

Left: -529.902+/-257.175 χ^2/NDF : 72.6/47

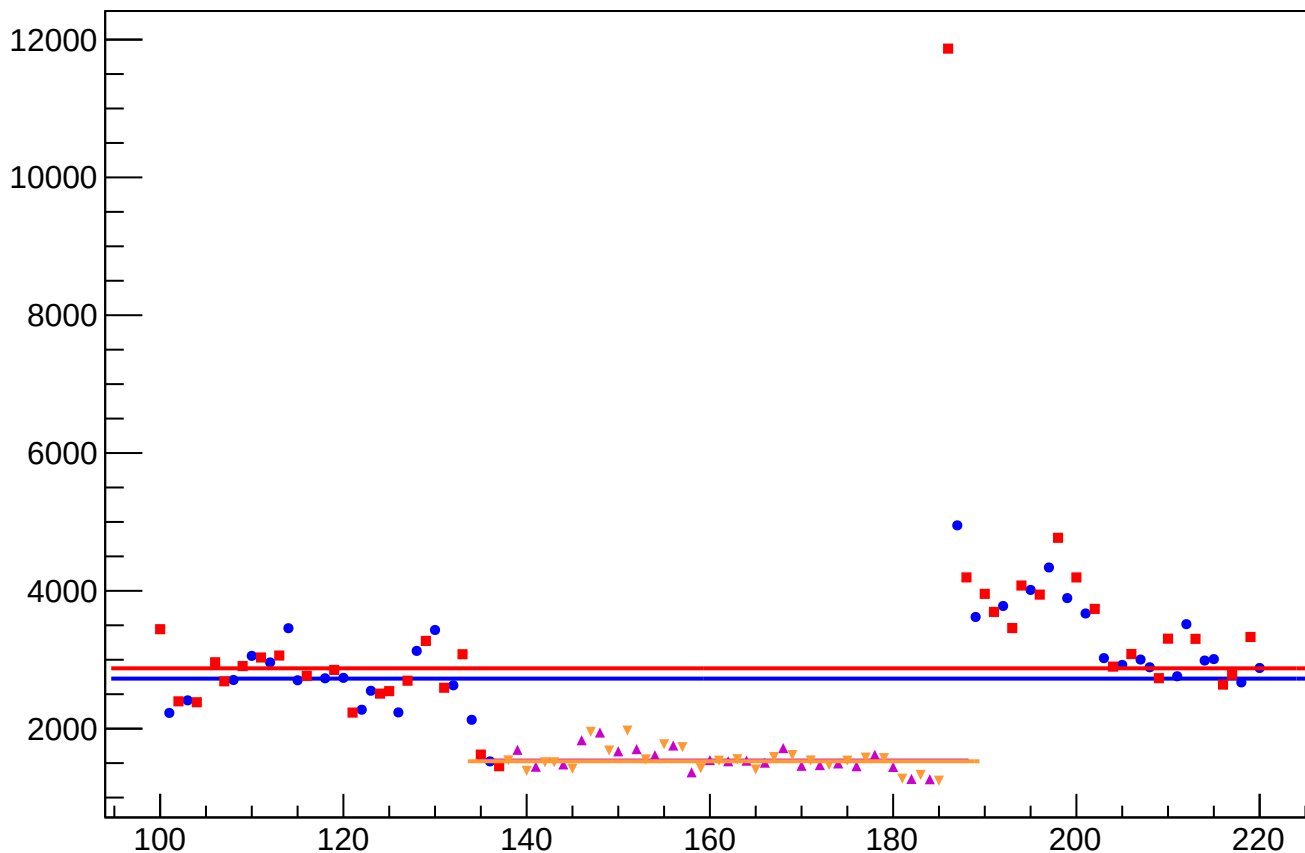
Right: -594.517+/-467.530 χ^2/NDF : 95.1/70

In: -823.174+/-321.196 χ^2/NDF : 85.7/56

Out: -275.232+/-316.203 χ^2/NDF : 80.5/61

All: -544.912+/-225.334 χ^2/NDF : 167.7/118

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2726.269 $\pm$ 0.458 χ^2/NDF : 2332151.5/33

Left Out: 1526.712 $\pm$ 0.253 χ^2/NDF : 394892.7/24

Right Out: 2875.539 $\pm$ 0.478 χ^2/NDF : 2682924.0/36

Left In: 1536.538 $\pm$ 0.262 χ^2/NDF : 350373.3/22

Left: 1531.463 $\pm$ 0.182 χ^2/NDF : 745995.2/47

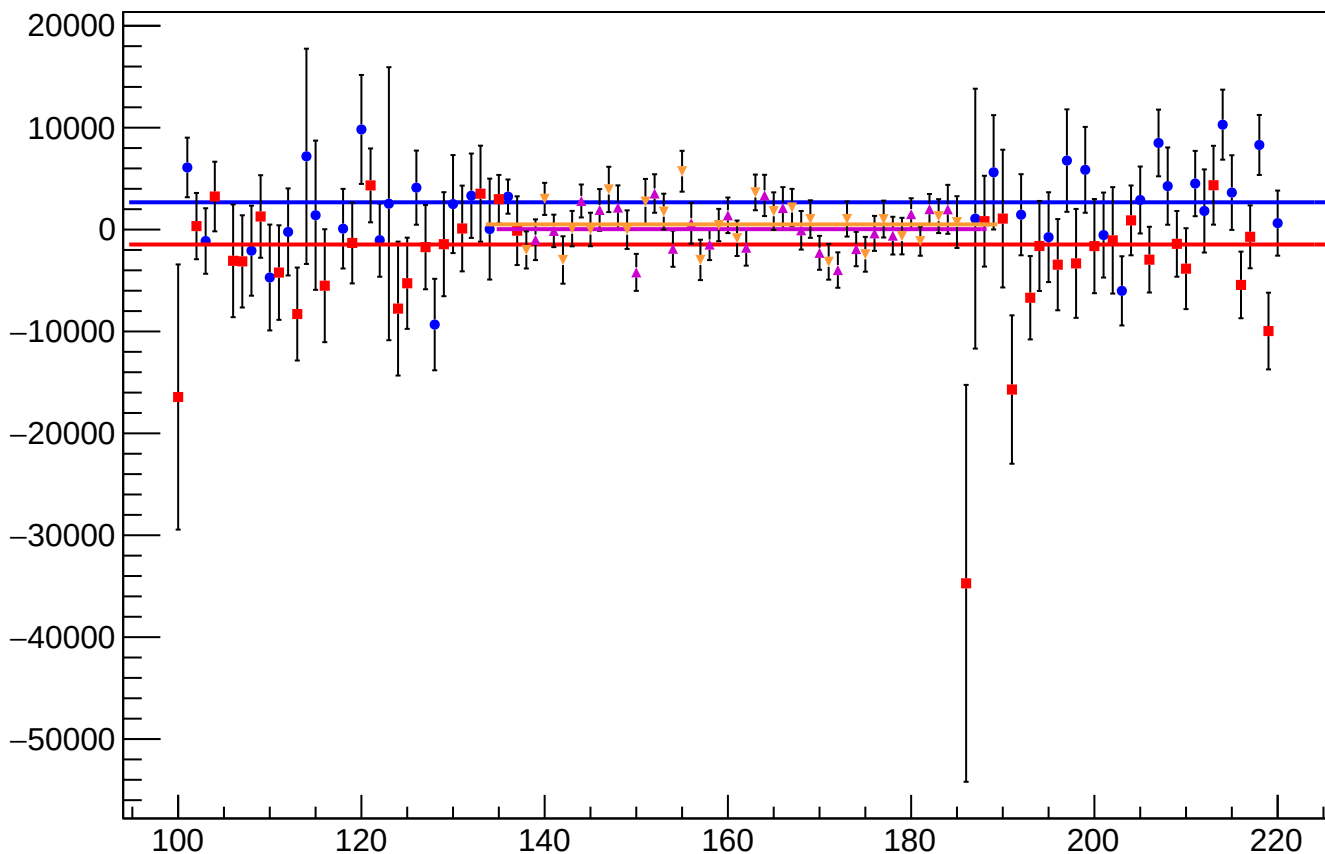
Right: 2797.807 $\pm$ 0.331 χ^2/NDF : 5065955.7/70

In: 1828.951 $\pm$ 0.227 χ^2/NDF : 7769196.3/56

Out: 1822.401 $\pm$ 0.224 χ^2/NDF : 9306817.7/61

All: 1825.625 $\pm$ 0.159 χ^2/NDF : 17076436.3/100

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2677.435 $\pm$ 649.797 χ^2 /NDF: 39.8/33

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1464.109 $\pm$ 677.228 χ^2 /NDF: 35.5/36

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

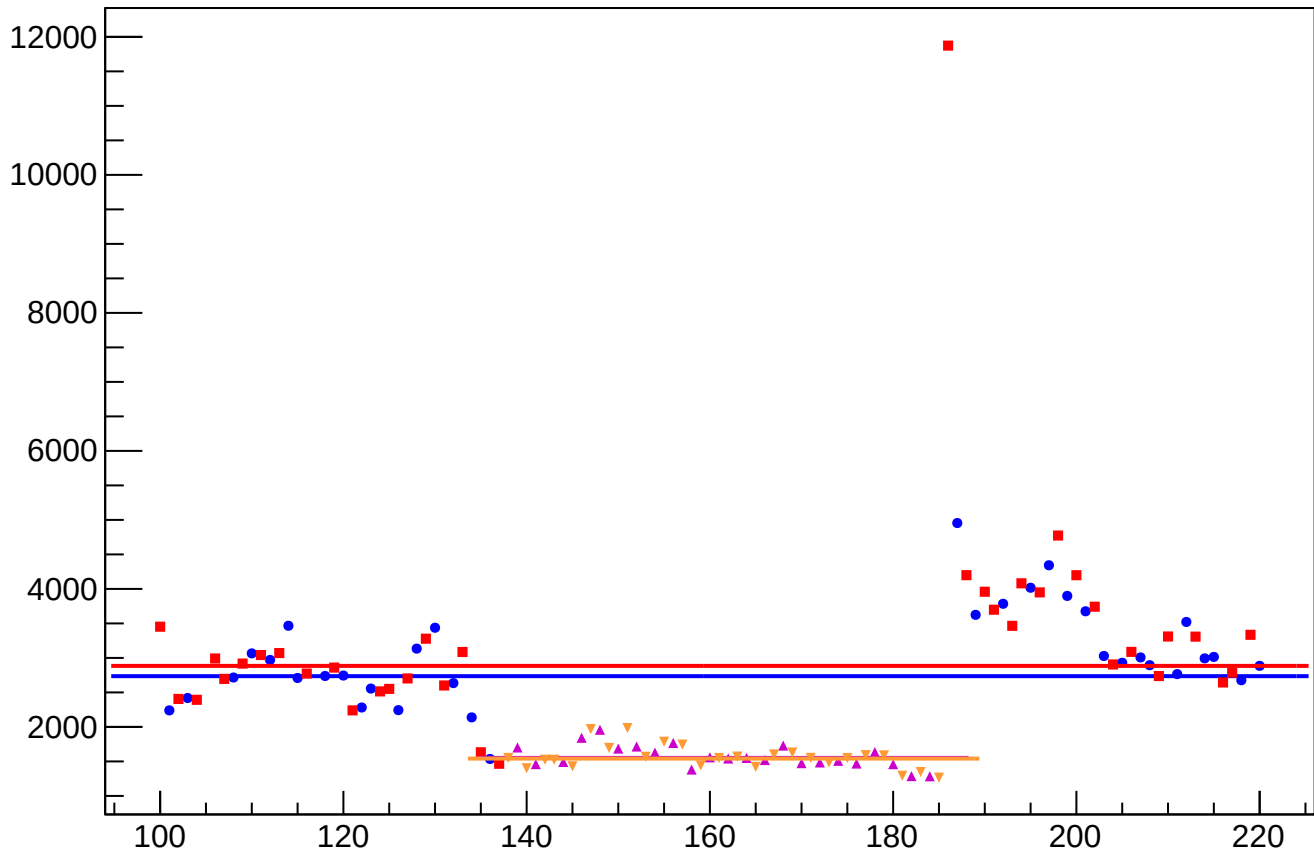
Right: 692.235 $\pm$ 468.873 χ^2 /NDF: 94.7/70

In: 694.411 $\pm$ 323.663 χ^2 /NDF:85.7/56

Out: 71.285 $\pm$ 318.685 χ^2 /NDF:77.4/61

All: 378.020 $\pm$ 227.084 χ^2 /NDF: 165.1/118

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2735.693 $\pm$ 0.459 χ^2 /NDF: 2298831.7/33

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2884.430 $\pm$ 0.479 χ^2 /NDF: 2656631.9/36

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

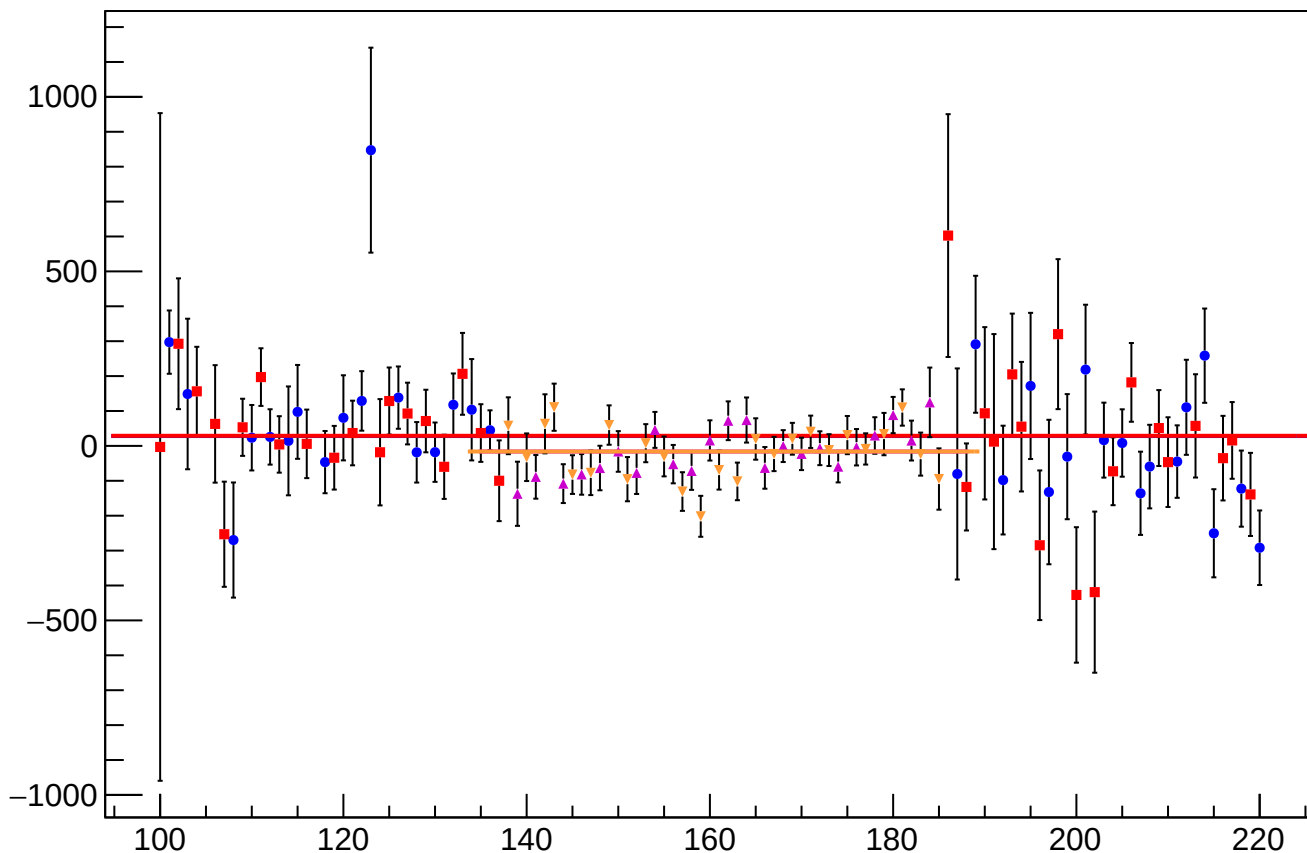
Right: 2806.988 $\pm$ 0.332 χ^2 /NDF: 5005692.4/70

In: 1844.972 $\pm$ 0.229 χ^2 /NDF: 7635763.7/56

Out: 1838.688 $\pm$ 0.225 χ^2 /NDF: 9163826.1/61

All: 1841.781 $\pm$ 0.161 χ^2 /NDF: 16799972.6/1

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 28.239 ± 19.172 $\chi^2/\text{NDF}: 53.0/33$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 28.916 ± 19.527 $\chi^2/\text{NDF}: 41.9/36$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

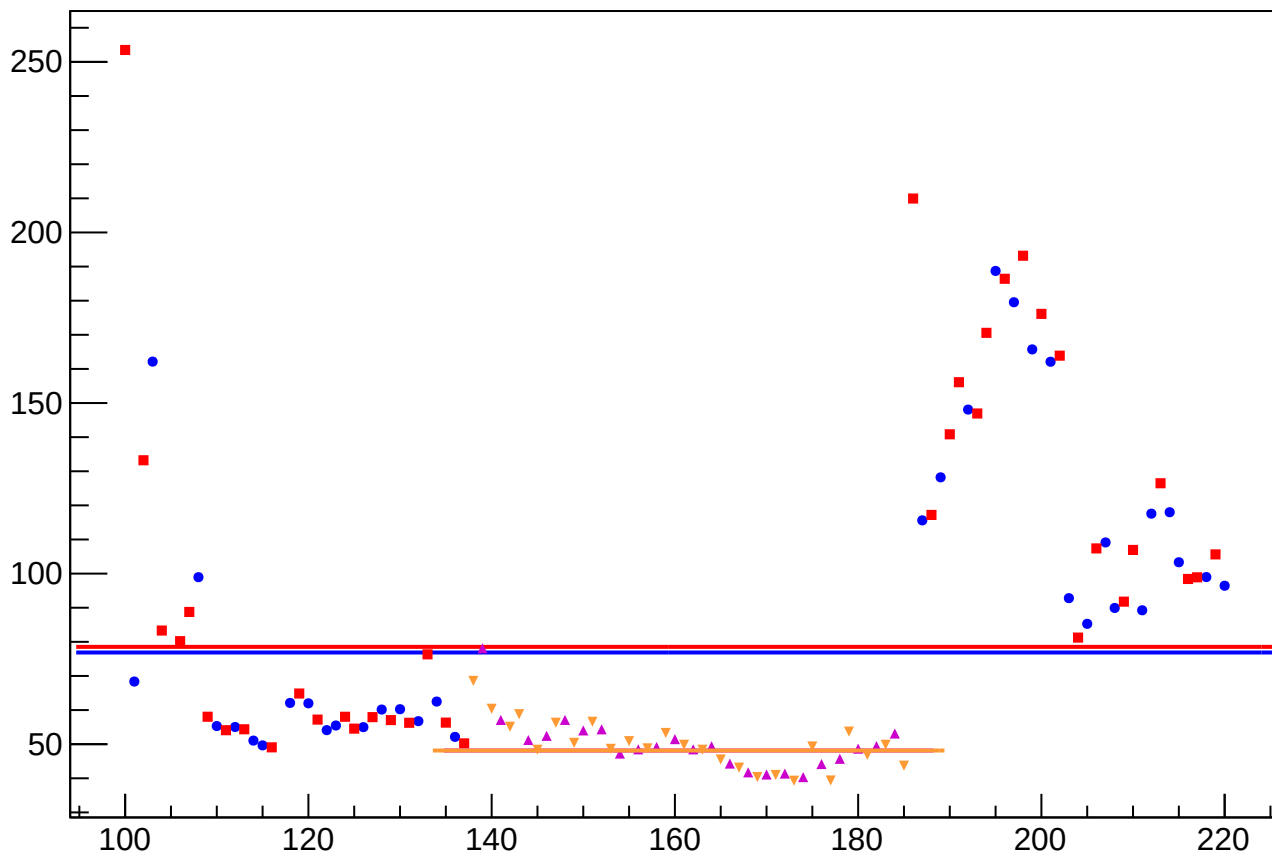
Right: 28.571 ± 13.680 $\chi^2/\text{NDF}: 94.9/70$

In: -4.189 ± 9.956 $\chi^2/\text{NDF}: 82.1/56$

Out: -4.709 ± 9.806 $\chi^2/\text{NDF}: 85.5/61$

All: -4.453 ± 6.986 $\chi^2/\text{NDF}: 167.7/118$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 76.876 $\pm$ 0.014 χ^2 /NDF: 5185004.8/33

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 78.527 $\pm$ 0.014 χ^2 /NDF: 5909298.8/36

Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47

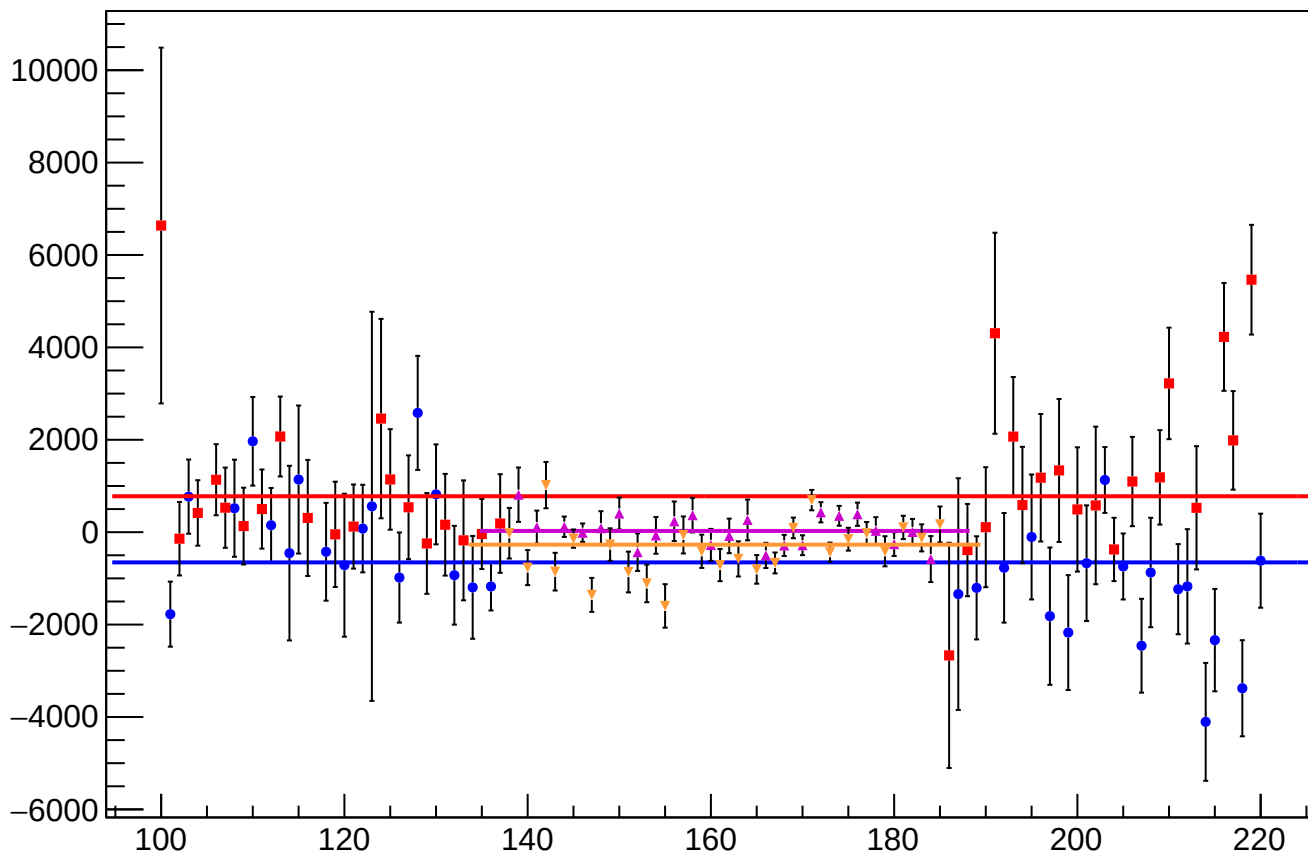
Right: 77.686 $\pm$ 0.010 χ^2 /NDF: 11101579.8/70

In: 55.888 $\pm$ 0.007 χ^2 /NDF: 9041825.6/56

Out: 55.804 $\pm$ 0.007 χ^2 /NDF: 10186110.6/61

All: 55.845 $\pm$ 0.005 χ^2 /NDF: 19228009.0/118

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -653.723 ± 174.662 χ^2/NDF : 56.6/33

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 777.903 ± 174.289 χ^2/NDF : 52.7/36

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

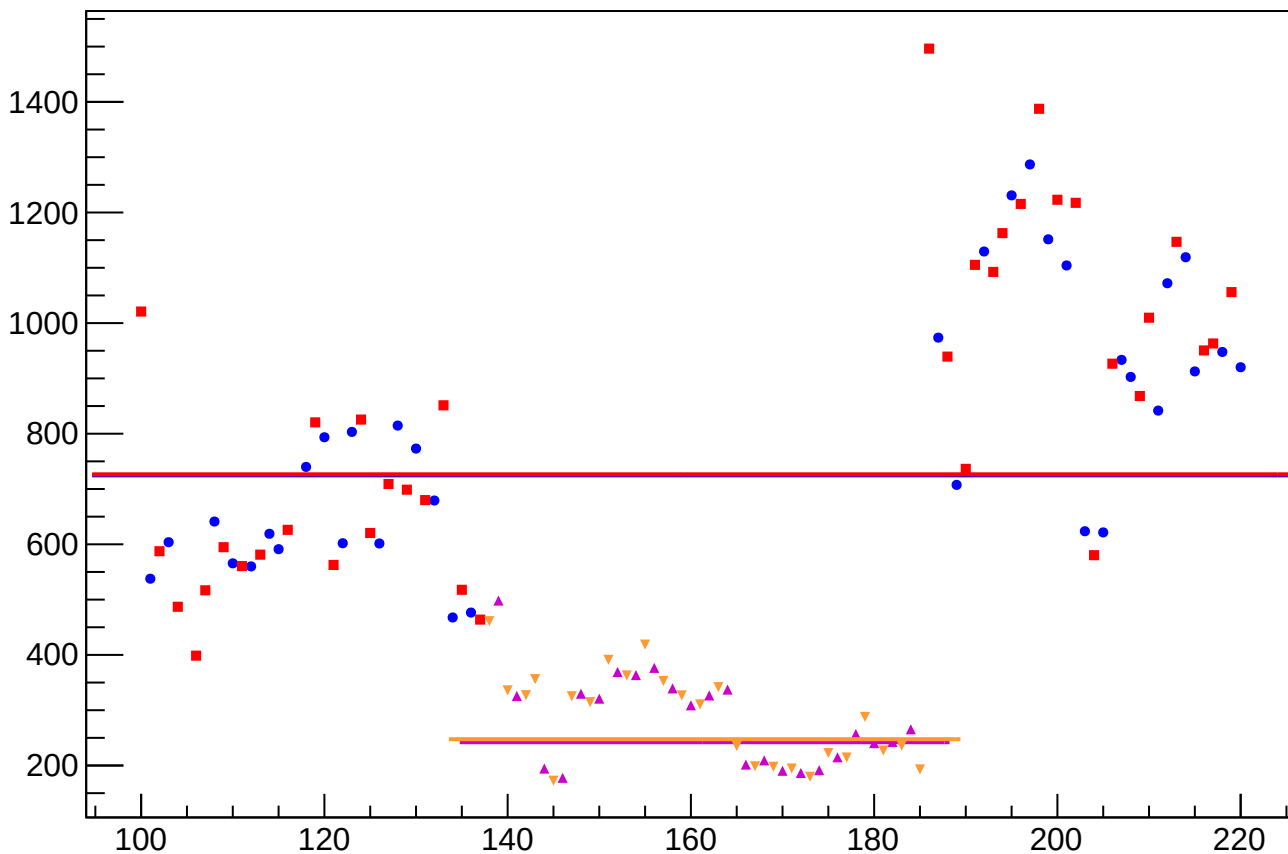
Right: 63.619 ± 123.373 χ^2/NDF : 142.9/70

In: -45.532 ± 57.109 χ^2/NDF : 95.2/56

Out: -158.573 ± 56.882 χ^2/NDF : 155.1/61

All: -102.277 ± 40.302 χ^2/NDF : 252.3/118

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 724.657 $\pm$ 0.124 χ^2 /NDF: 3059813.6/33

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 726.586 $\pm$ 0.123 χ^2 /NDF: 4030575.7/36

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

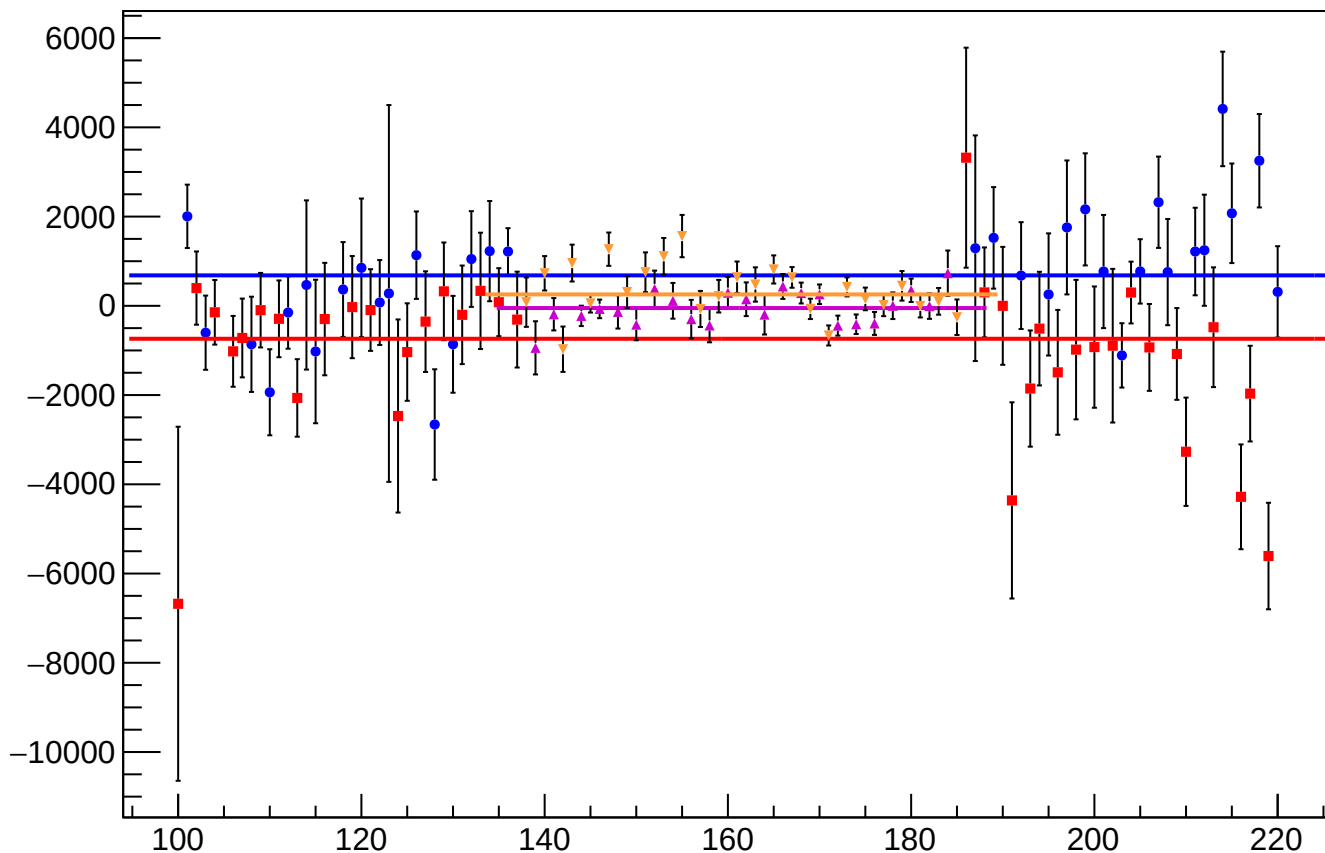
Right: 725.624 $\pm$ 0.087 χ^2 /NDF: 7090511.5/70

In: 293.704 $\pm$ 0.040 χ^2 /NDF: 19159082.2/56

Out: 298.593 $\pm$ 0.040 χ^2 /NDF: 20309638.0/61

All: 296.158 $\pm$ 0.028 χ^2 /NDF: 39476078.1/111

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 682.399+/-176.190 χ^2/NDF : 57.0/33

Left Out: 255.995+/-61.418 χ^2/NDF : 63.6/24

Right Out: -738.155+/-176.107 χ^2/NDF : 54.9/36

Left In: -49.832+/-61.781 χ^2/NDF : 27.5/22

Left: 103.982+/-43.557 χ^2/NDF : 103.4/47

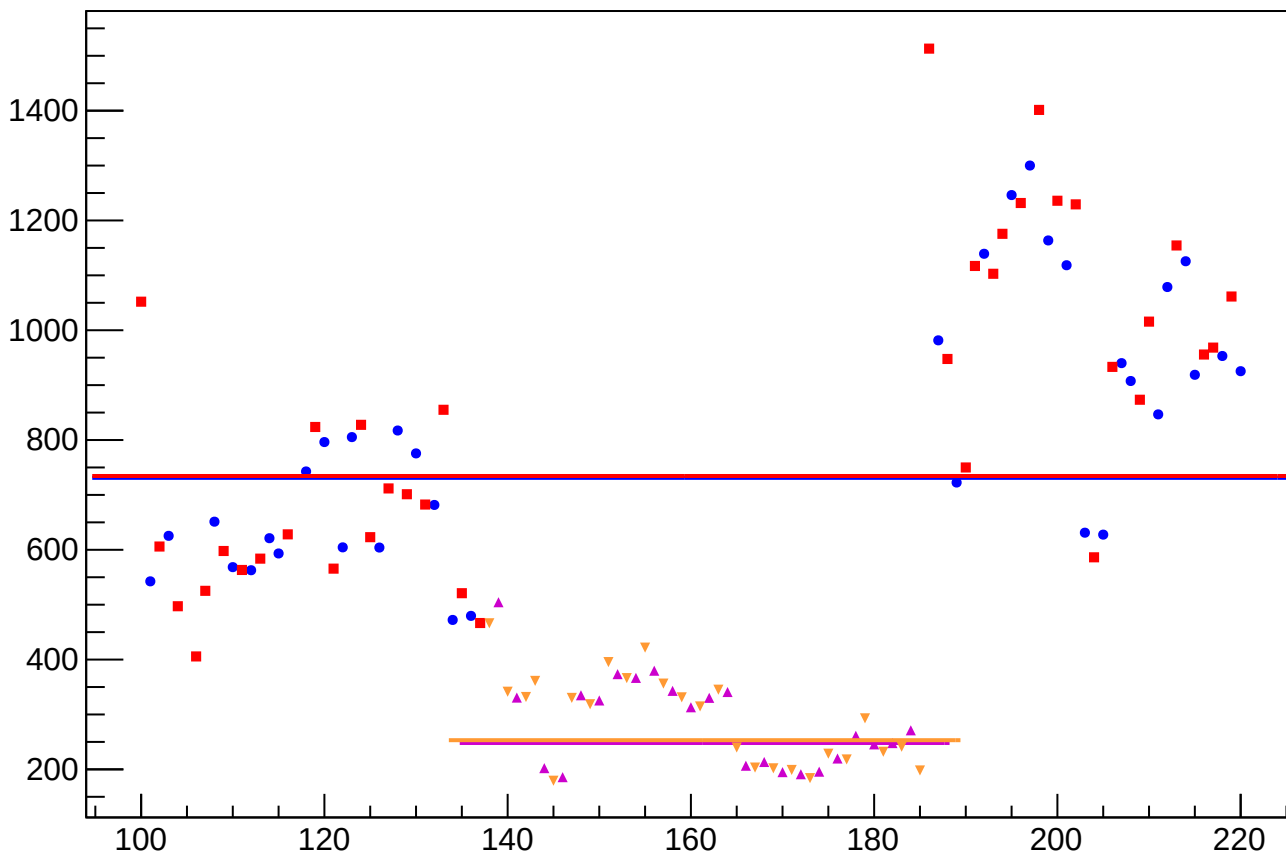
Right: -28.213+/-124.556 χ^2/NDF : 144.4/70

In: 30.343+/-58.301 χ^2/NDF : 99.9/56

Out: 148.188+/-57.993 χ^2/NDF : 146.9/61

All: 89.578+/-41.116 χ^2/NDF : 248.9/118

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 731.117 $\pm$ 0.125 χ^2 /NDF: 3052644.5/33

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 734.462 $\pm$ 0.125 χ^2 /NDF: 3984694.5/36

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF: 2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

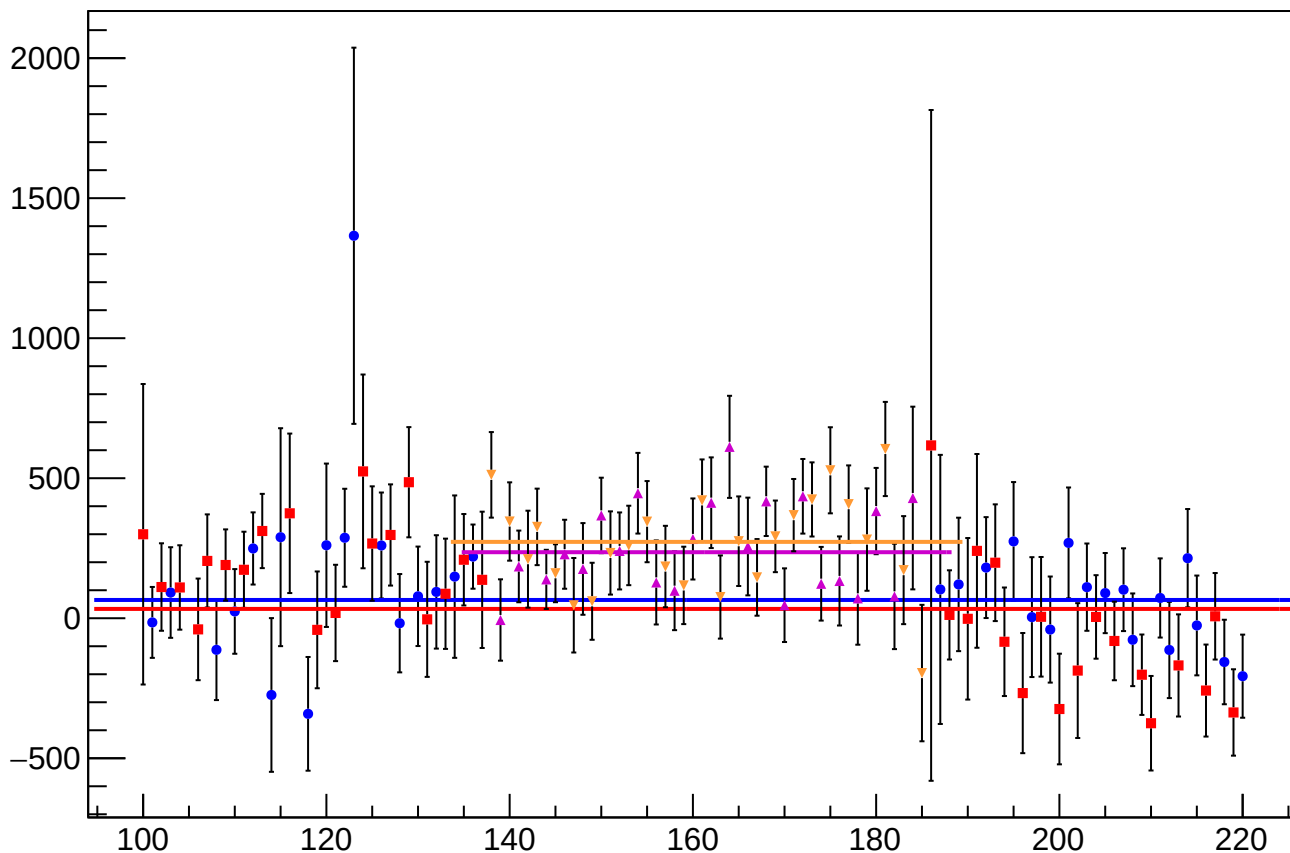
Right: 732.790 $\pm$ 0.088 χ^2 /NDF: 7037699.5/70

In: 300.959 $\pm$ 0.041 χ^2 /NDF: 18783096.6/56

Out: 305.332 $\pm$ 0.041 χ^2 /NDF: 19970703.0/61

All: 303.157 $\pm$ 0.029 χ^2 /NDF: 38759456.2/11

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 65.258+/-30.278 χ^2/NDF : 29.8/33

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 33.279+/-29.924 χ^2/NDF : 49.8/36

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

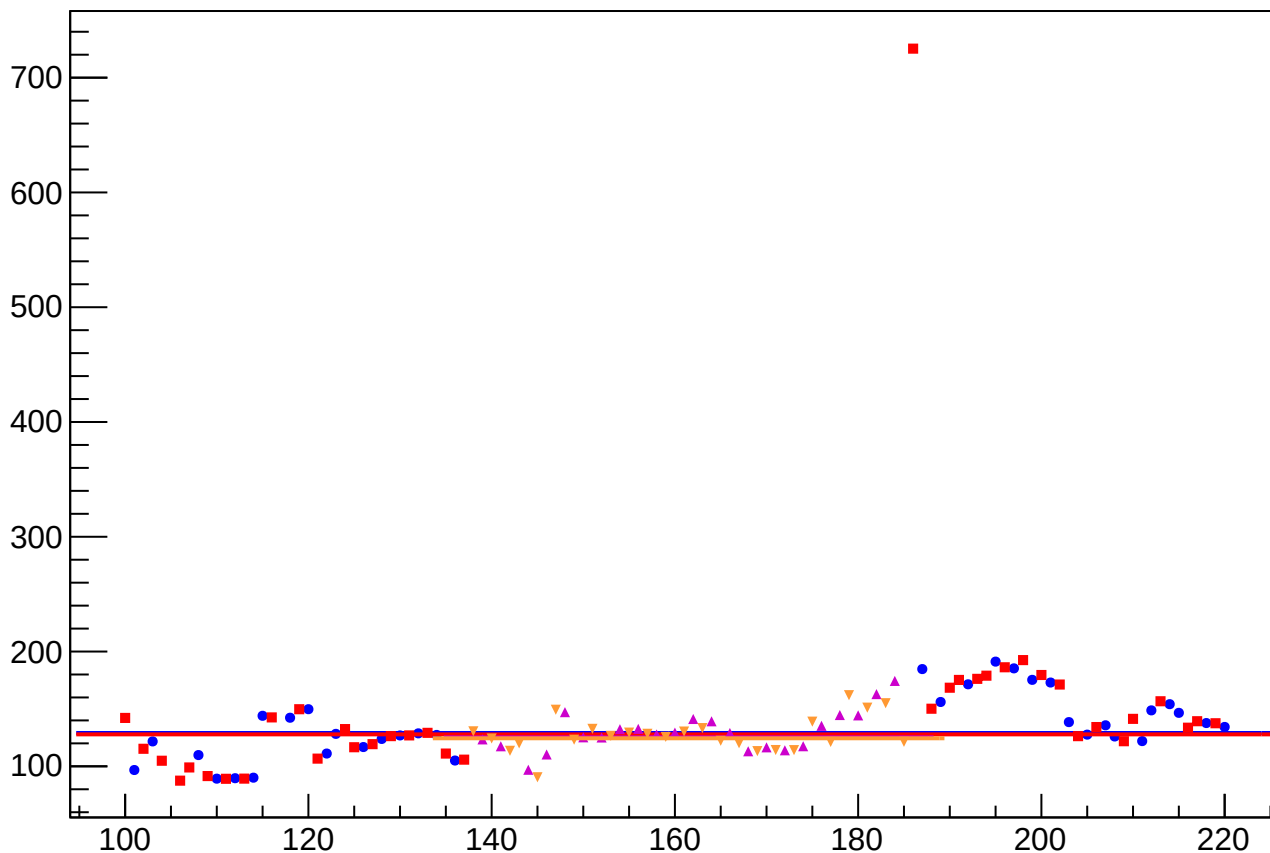
Right: 49.080+/-21.284 χ^2/NDF : 80.2/70

In: 150.661+/-21.393 χ^2/NDF : 70.3/56

Out: 155.825+/-20.906 χ^2/NDF : 110.0/61

All: 153.302+/-14.952 χ^2/NDF : 180.4/118

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 129.034 $\pm$ 0.021 χ^2 /NDF: 1468929.1/33

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 127.843 $\pm$ 0.021 χ^2 /NDF: 2307916.8/36

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

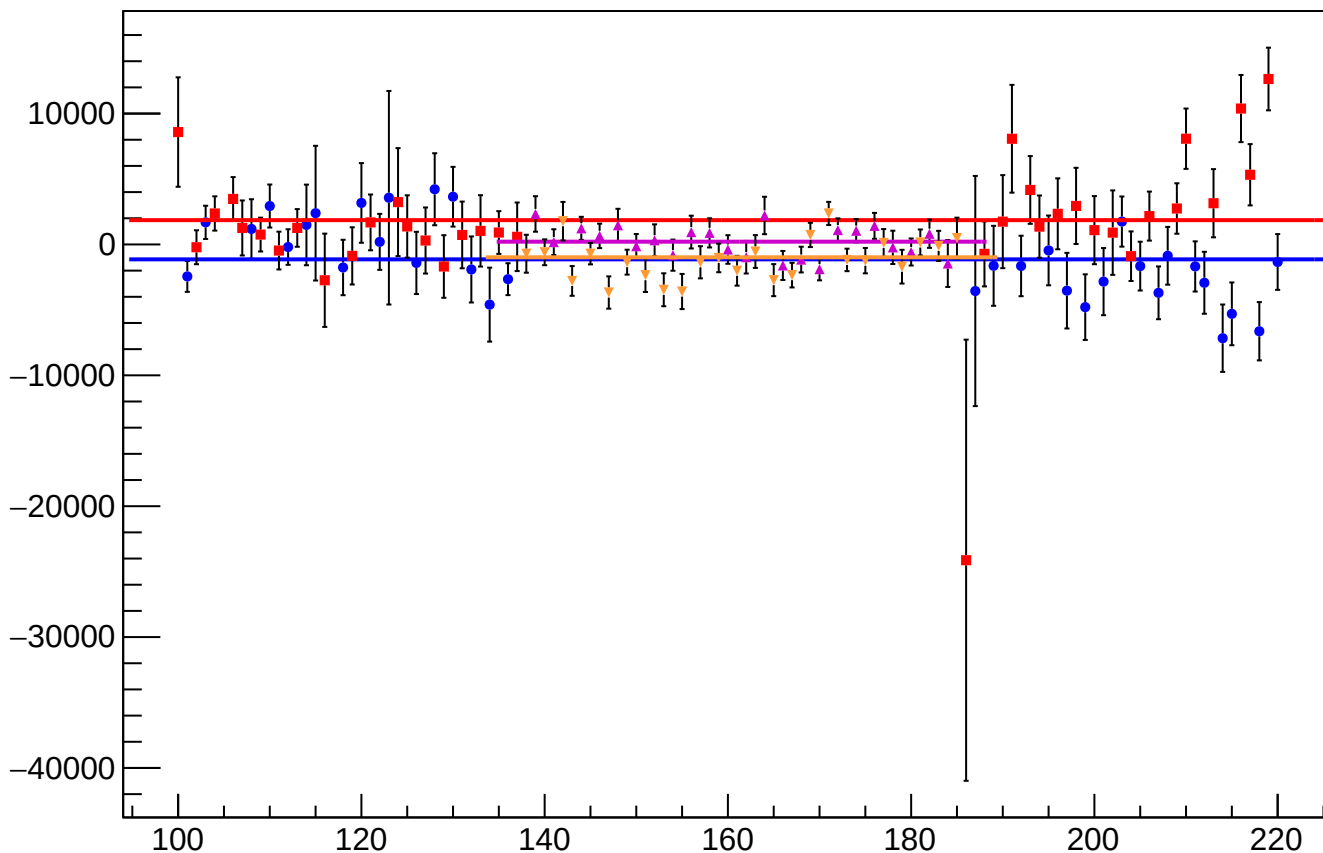
Right: 128.431 $\pm$ 0.015 χ^2 /NDF: 3778411.2/70

In: 127.116 $\pm$ 0.015 χ^2 /NDF: 1986330.6/56

Out: 126.095 $\pm$ 0.015 χ^2 /NDF: 2860974.4/61

All: 126.594 $\pm$ 0.011 χ^2 /NDF: 4849636.2/118

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1139.748 $\pm$ 360.428 χ^2 /NDF: 51.9/33

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF: 47.2/24

Right Out: 1856.708 $\pm$ 352.031 χ^2 /NDF: 66.9/36

Left In: 211.420 $\pm$ 223.296 χ^2 /NDF: 25.7/22

Left: -399.983 $\pm$ 155.996 χ^2 /NDF: 87.5/47

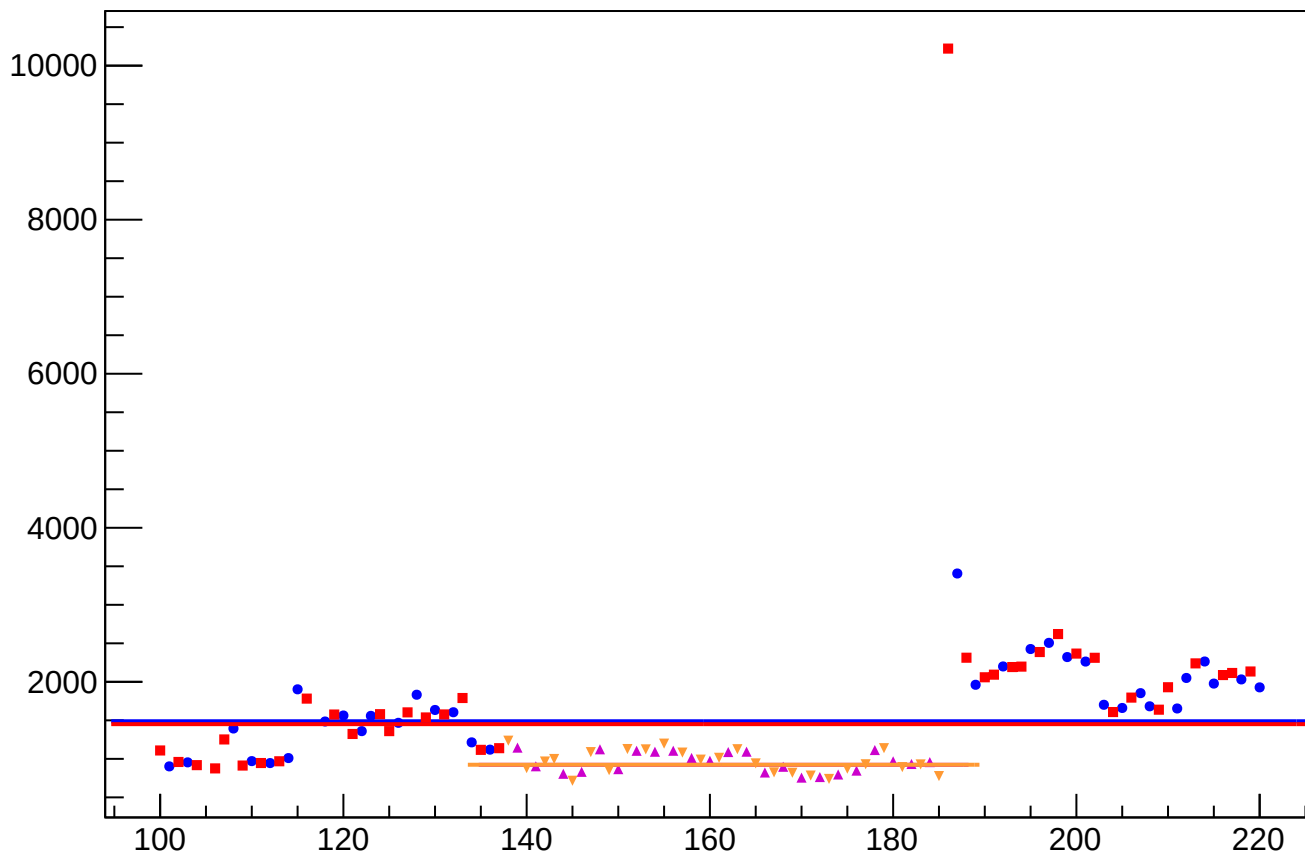
Right: 393.792 $\pm$ 251.840 χ^2 /NDF: 154.2/70

In: -163.343 $\pm$ 189.820 χ^2 /NDF: 87.7/56

Out: -195.636 $\pm$ 185.353 χ^2 /NDF: 161.2/61

All: -179.874 $\pm$ 132.615 χ^2 /NDF: 248.9/118

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1488.204+/-0.255 χ^2/NDF : 3636200.3/33

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1450.559+/-0.249 χ^2/NDF : 4914742.8/36

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

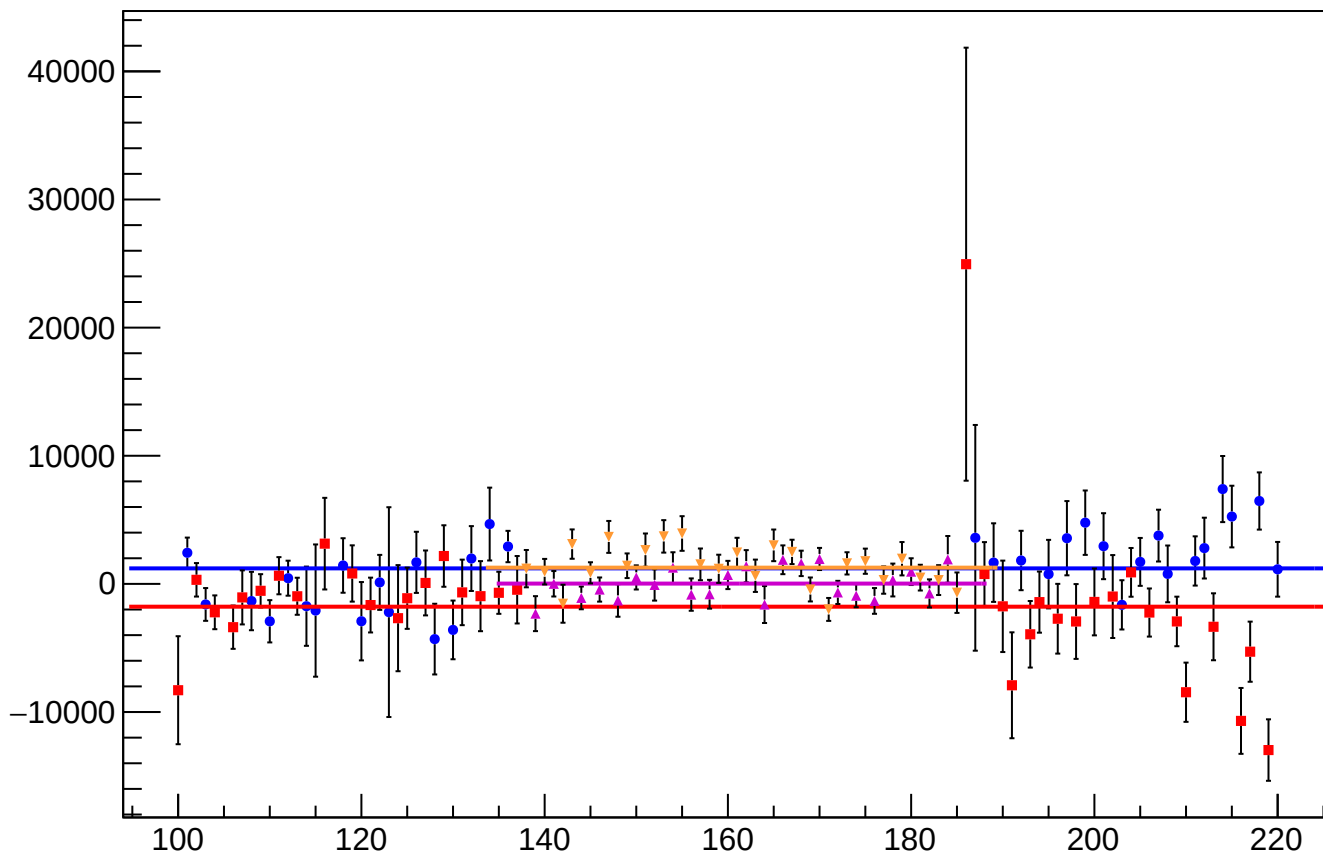
Right: 1468.938+/-0.178 χ^2/NDF : 8562109.0/70

In: 1079.221+/-0.134 χ^2/NDF : 7834470.7/56

Out: 1069.678+/-0.131 χ^2/NDF : 8996766.6/61

All: 1074.336+/-0.094 χ^2/NDF : 16833824.9/131

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1210.179+/-361.903 χ^2/NDF : 51.1/33

Left Out: 1267.344+/-220.133 χ^2/NDF : 44.9/24

Right Out: -1779.475+/-353.631 χ^2/NDF : 71.7/36

Left In: 23.478+/-225.490 χ^2/NDF : 27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

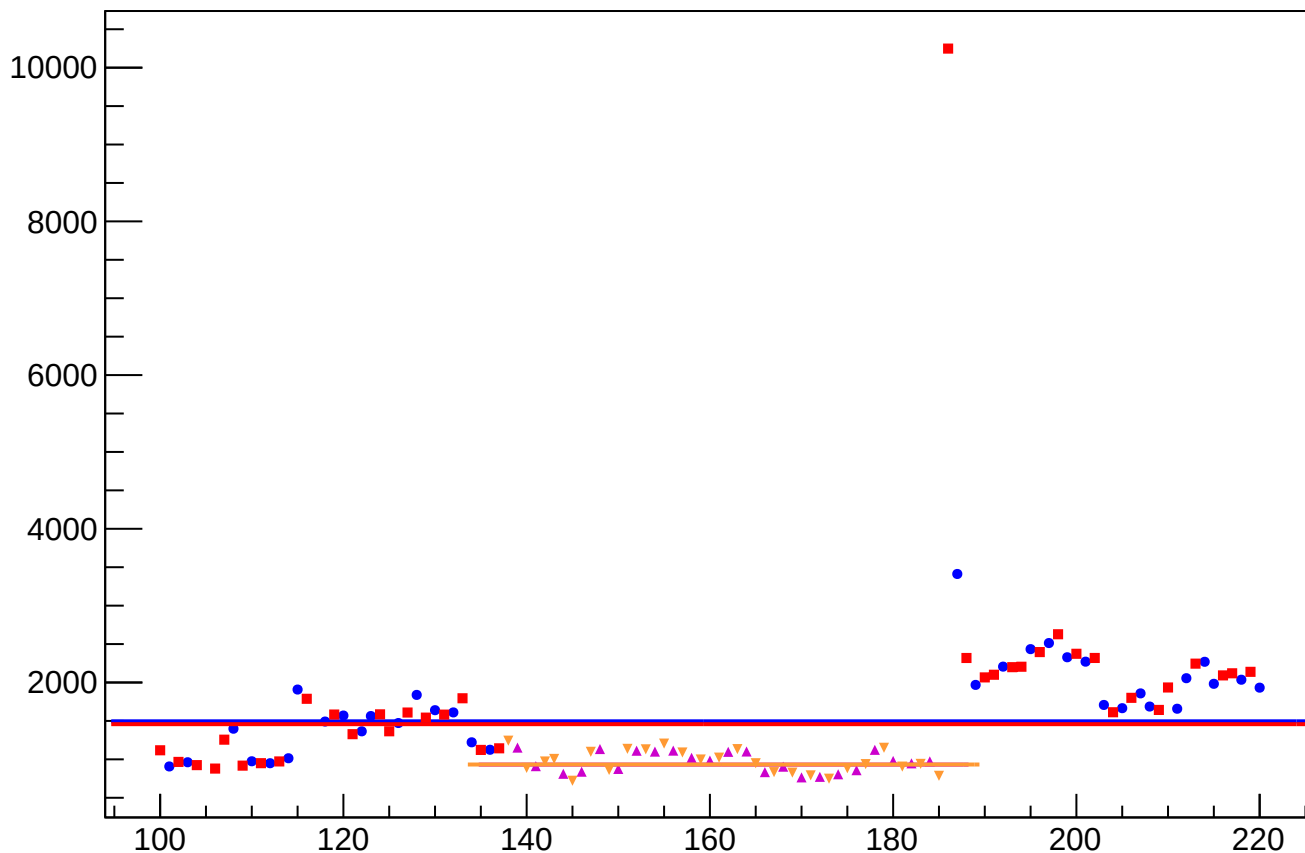
Right: -319.203+/-252.929 χ^2/NDF : 157.7/70

In: 355.339+/-191.381 χ^2/NDF : 86.0/56

Out: 416.433+/-186.883 χ^2/NDF : 170.1/61

All: 386.612+/-133.708 χ^2/NDF : 256.2/118

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1494.884+/-0.256 χ^2/NDF : 3610663.5/33

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1457.679+/-0.250 χ^2/NDF : 4882896.7/36

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

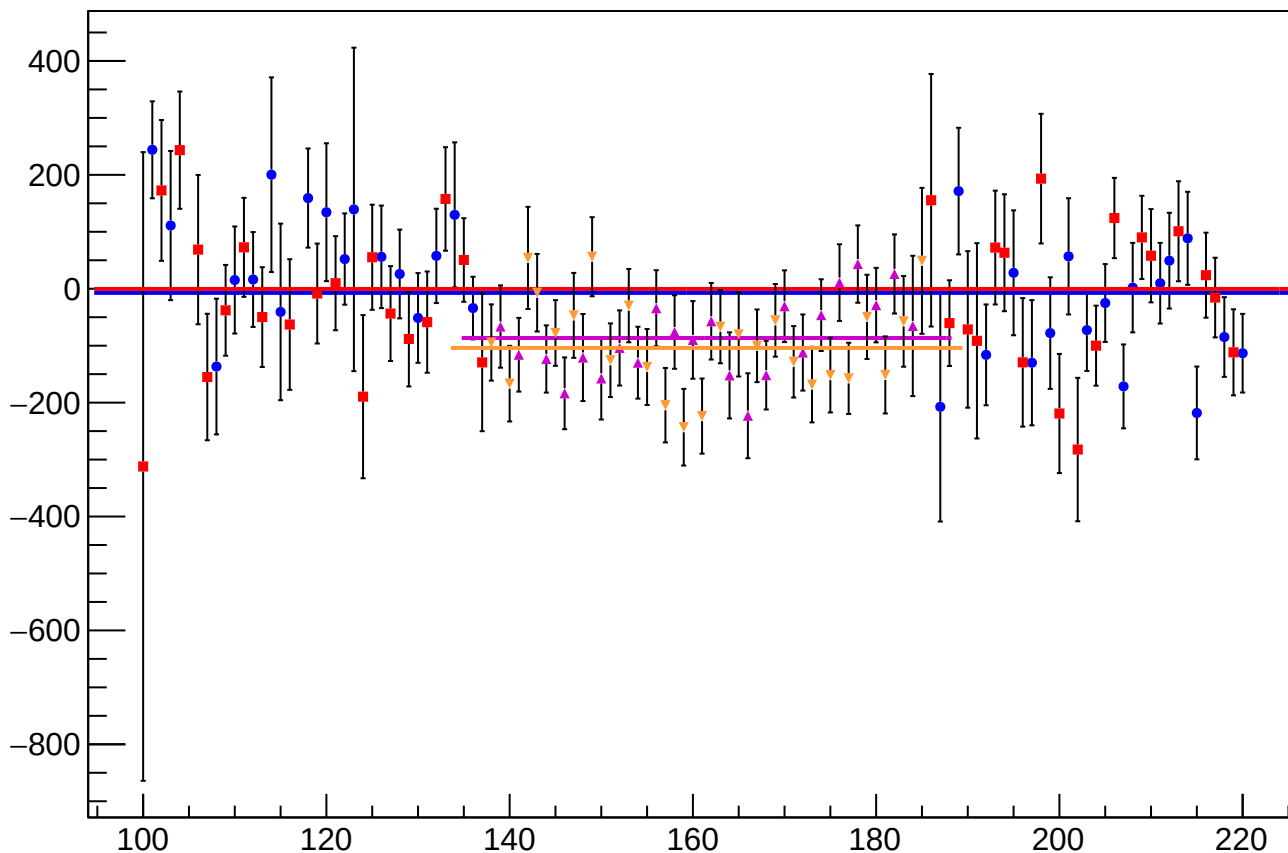
Right: 1475.852+/-0.179 χ^2/NDF : 8504373.3/70

In: 1089.045+/-0.135 χ^2/NDF : 7726589.5/56

Out: 1079.361+/-0.132 χ^2/NDF : 8888652.0/61

All: 1084.088+/-0.095 χ^2/NDF : 16617862.8/117

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -7.284 ± 15.137 $\chi^2/\text{NDF}: 46.6/33$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: -0.356 ± 15.343 $\chi^2/\text{NDF}: 47.2/36$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

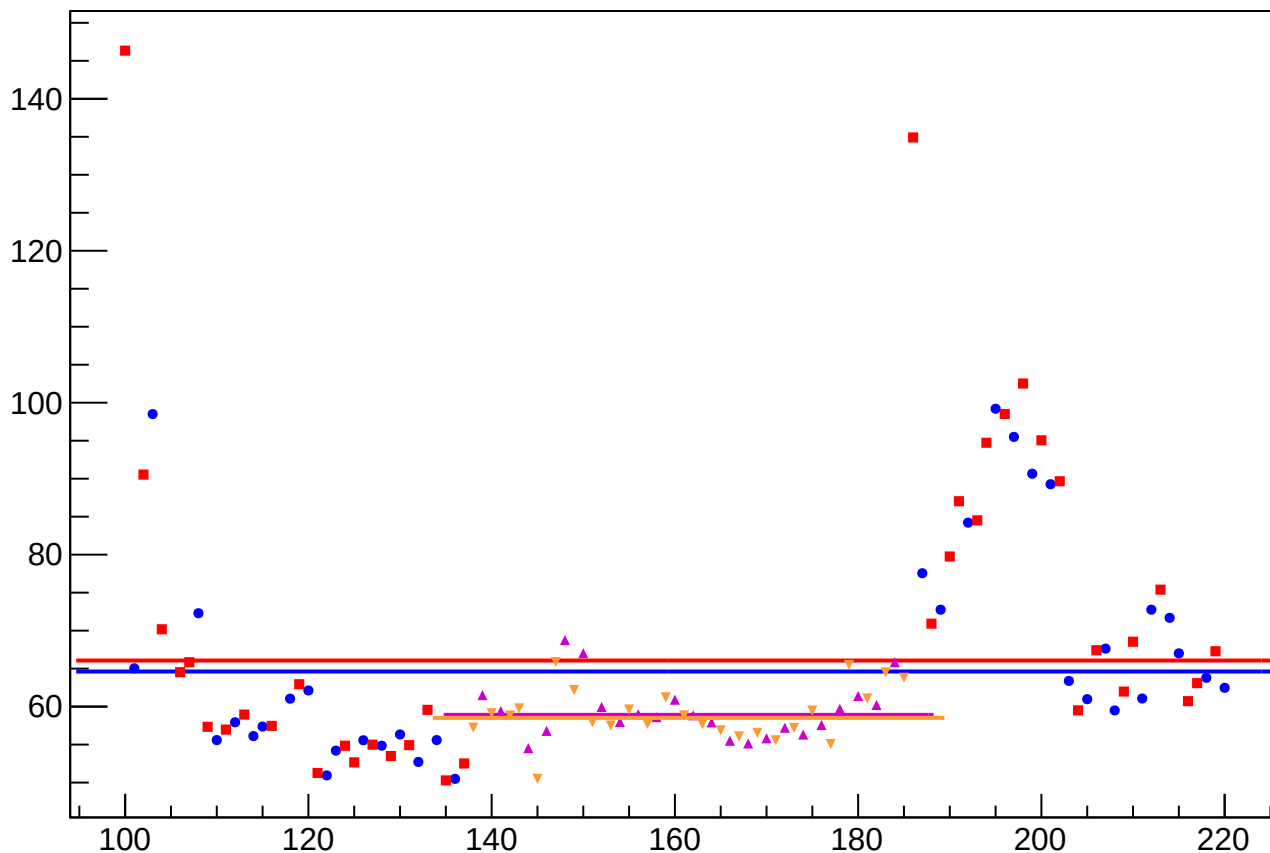
Right: -3.866 ± 10.775 $\chi^2/\text{NDF}: 93.9/70$

In: -49.665 ± 10.325 $\chi^2/\text{NDF}: 82.6/56$

Out: -58.181 ± 10.195 $\chi^2/\text{NDF}: 102.6/61$

All: -53.977 ± 7.254 $\chi^2/\text{NDF}: 185.6/118$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.620 ± 0.011 $\chi^2/\text{NDF}: 1297401.3/33$

Left Out: 58.513 ± 0.010 $\chi^2/\text{NDF}: 123221.6/24$

Right Out: 66.064 ± 0.011 $\chi^2/\text{NDF}: 1687757.7/36$

Left In: 58.913 ± 0.010 $\chi^2/\text{NDF}: 109968.0/22$

Left: 58.706 ± 0.007 $\chi^2/\text{NDF}: 234021.7/47$

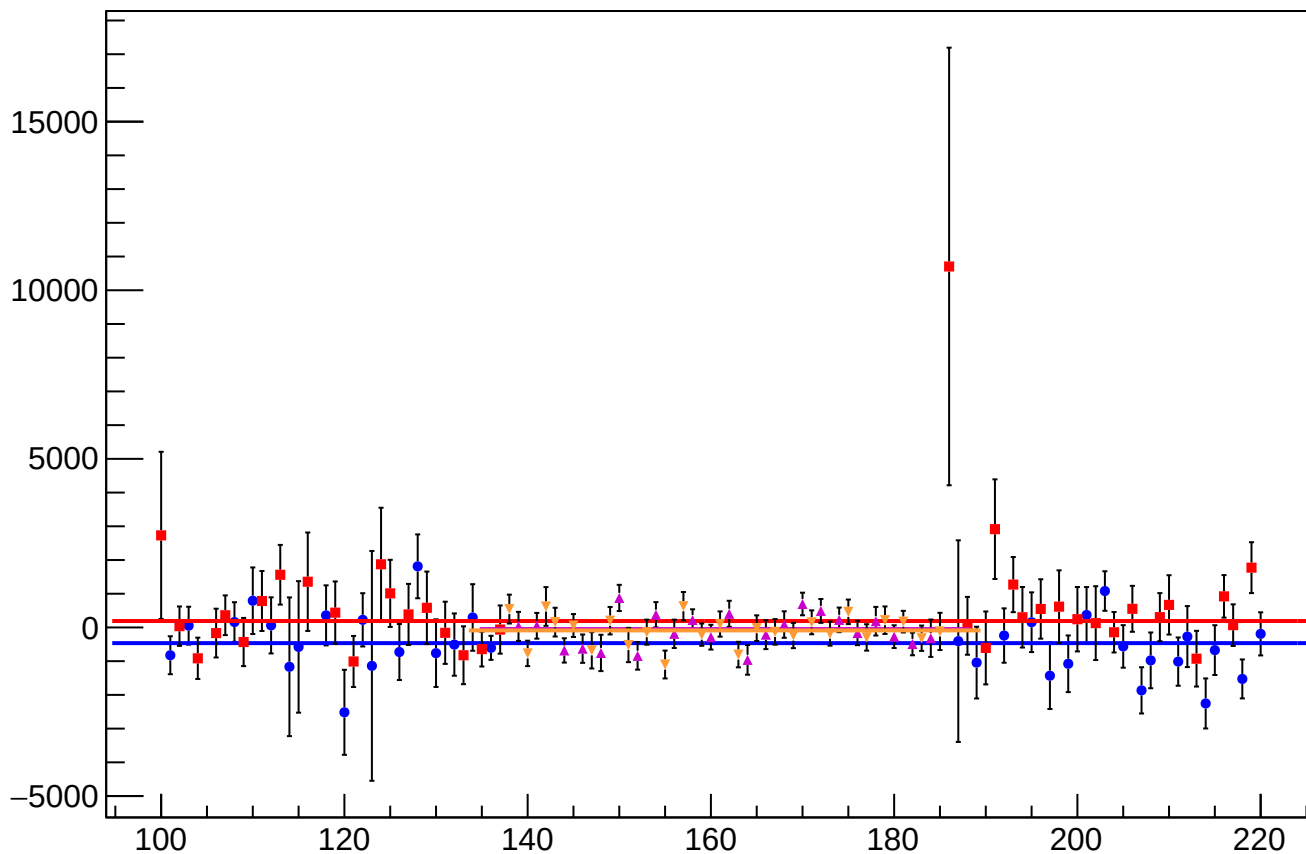
Right: 65.332 ± 0.008 $\chi^2/\text{NDF}: 2994138.7/70$

In: 61.568 ± 0.007 $\chi^2/\text{NDF}: 1559345.3/56$

Out: 61.847 ± 0.007 $\chi^2/\text{NDF}: 2081512.0/61$

All: 61.709 ± 0.005 $\chi^2/\text{NDF}: 3641594.2/118$

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -464.800 ± 130.868 $\chi^2/\text{NDF}: 40.5/33$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 190.737 ± 133.374 $\chi^2/\text{NDF}: 34.9/36$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

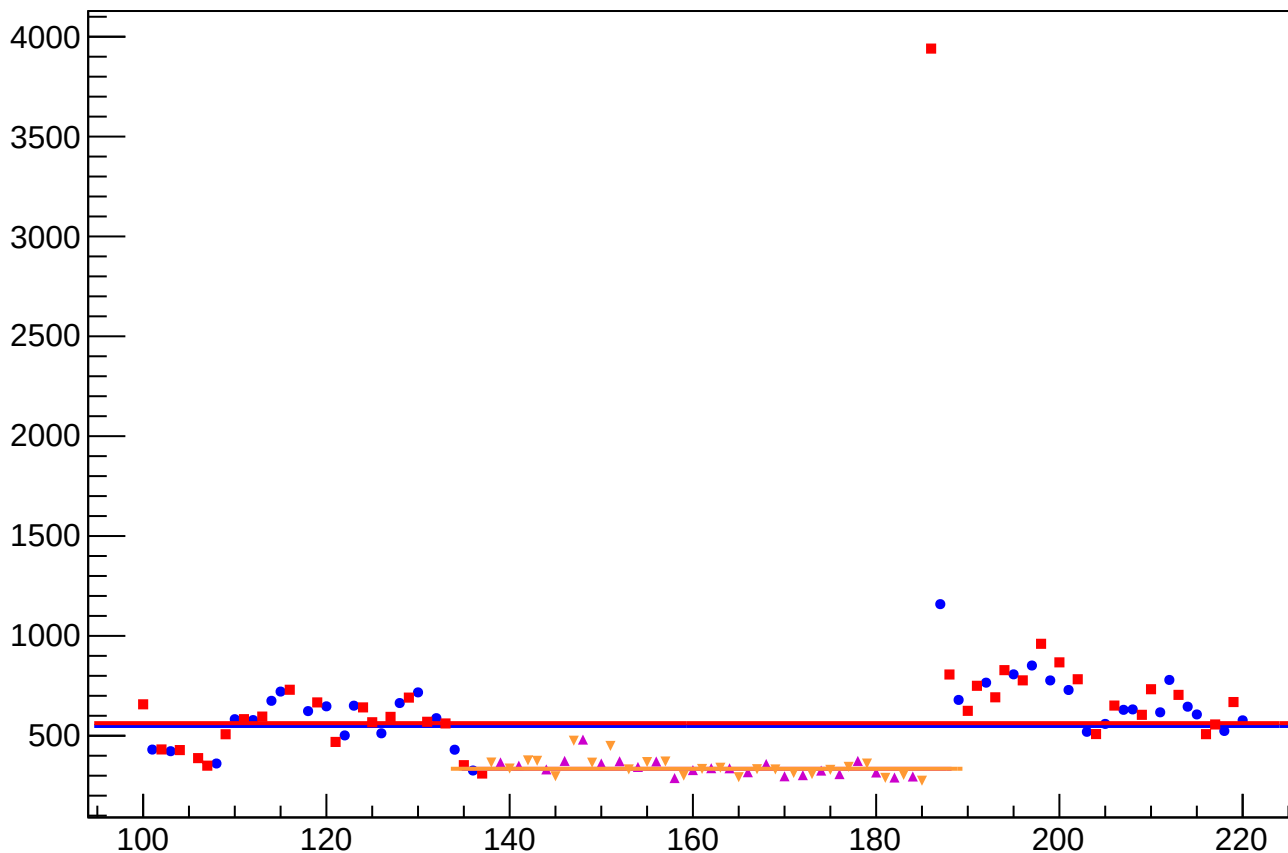
Right: -143.248 ± 93.411 $\chi^2/\text{NDF}: 87.7/70$

In: -163.052 ± 68.596 $\chi^2/\text{NDF}: 83.2/56$

Out: -15.806 ± 67.688 $\chi^2/\text{NDF}: 65.9/61$

All: -88.448 ± 48.180 $\chi^2/\text{NDF}: 151.4/118$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 548.949+/-0.093 χ^2/NDF : 2476802.1/33

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 563.125+/-0.094 χ^2/NDF : 3181943.9/36

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

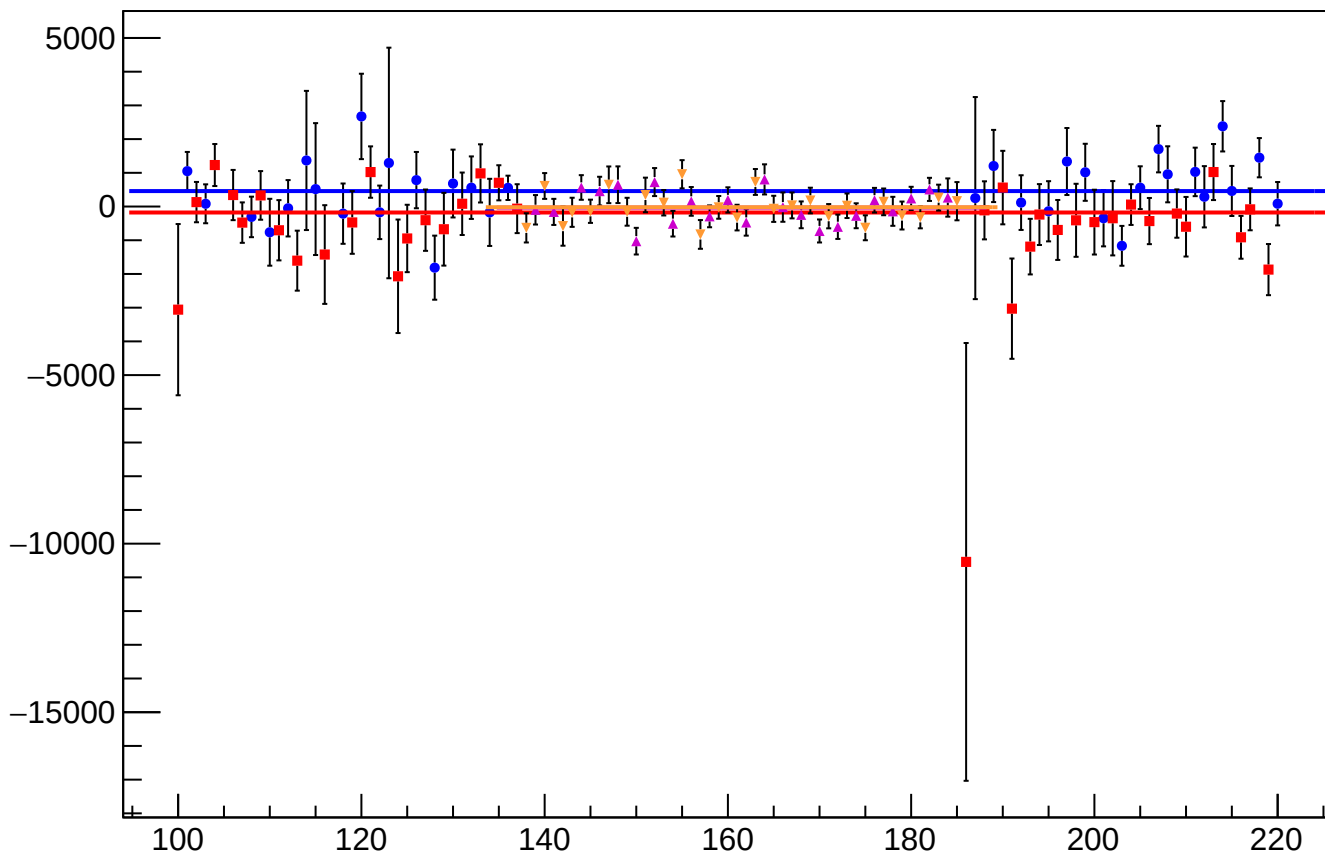
Right: 555.903+/-0.066 χ^2/NDF : 5670258.5/70

In: 393.163+/-0.049 χ^2/NDF : 6781799.9/56

Out: 393.570+/-0.048 χ^2/NDF : 8026952.2/61

All: 393.369+/-0.034 χ^2/NDF : 14808787.8/11

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 458.419+/-132.066 χ^2/NDF : 40.9/33

Left Out: -20.895+/-79.812 χ^2/NDF :27.2/24

Right Out: -176.972+/-134.650 χ^2/NDF : 38.7/36

Left In: -31.800+/-81.839 χ^2/NDF :34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

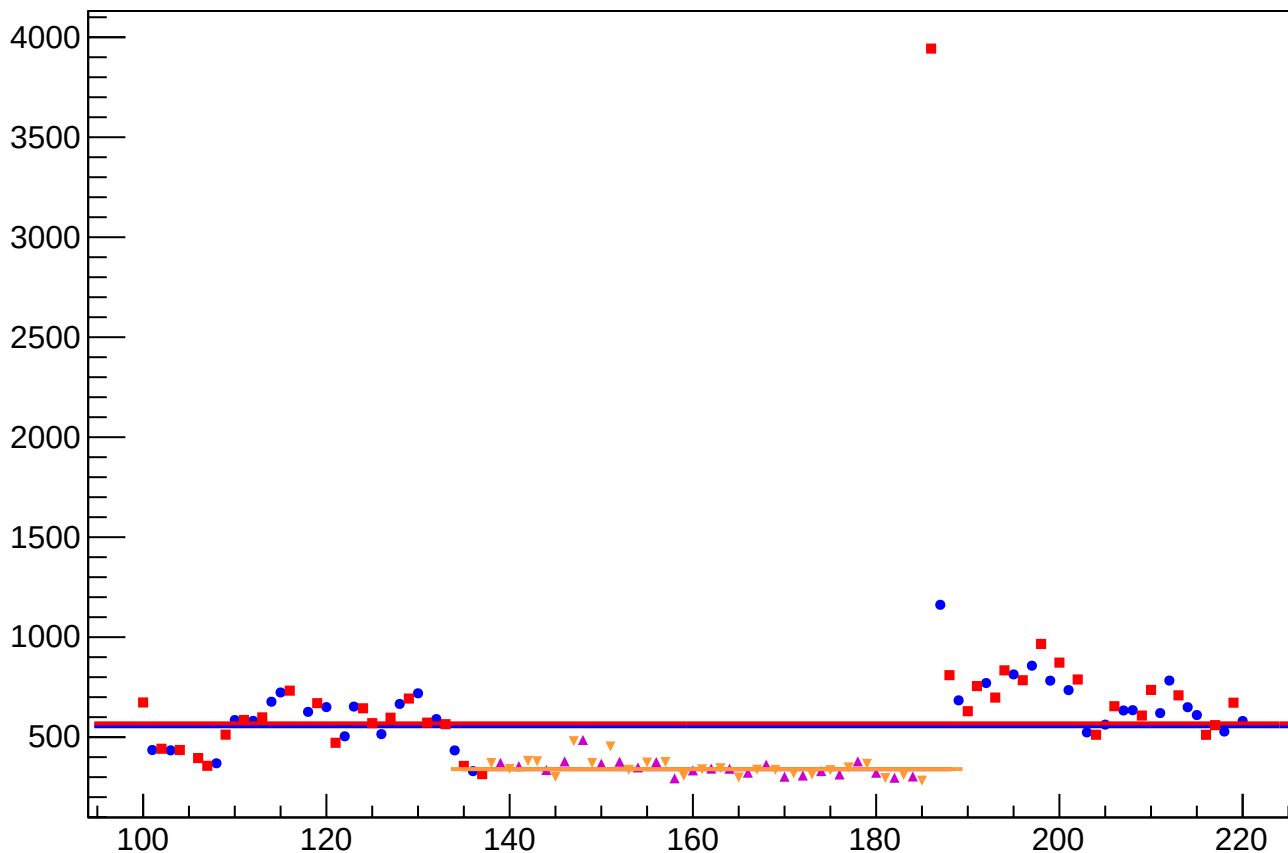
Right: 146.880+/-94.285 χ^2/NDF : 90.9/70

In: 104.217+/-69.565 χ^2/NDF :84.9/56

Out: -61.474+/-68.657 χ^2/NDF :66.9/61

All: 20.283+/-48.866 χ^2/NDF : 154.6/118

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 554.558 $\pm$ 0.093 χ^2 /NDF: 2407746.8/33

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 569.046 $\pm$ 0.095 χ^2 /NDF: 3109690.3/36

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

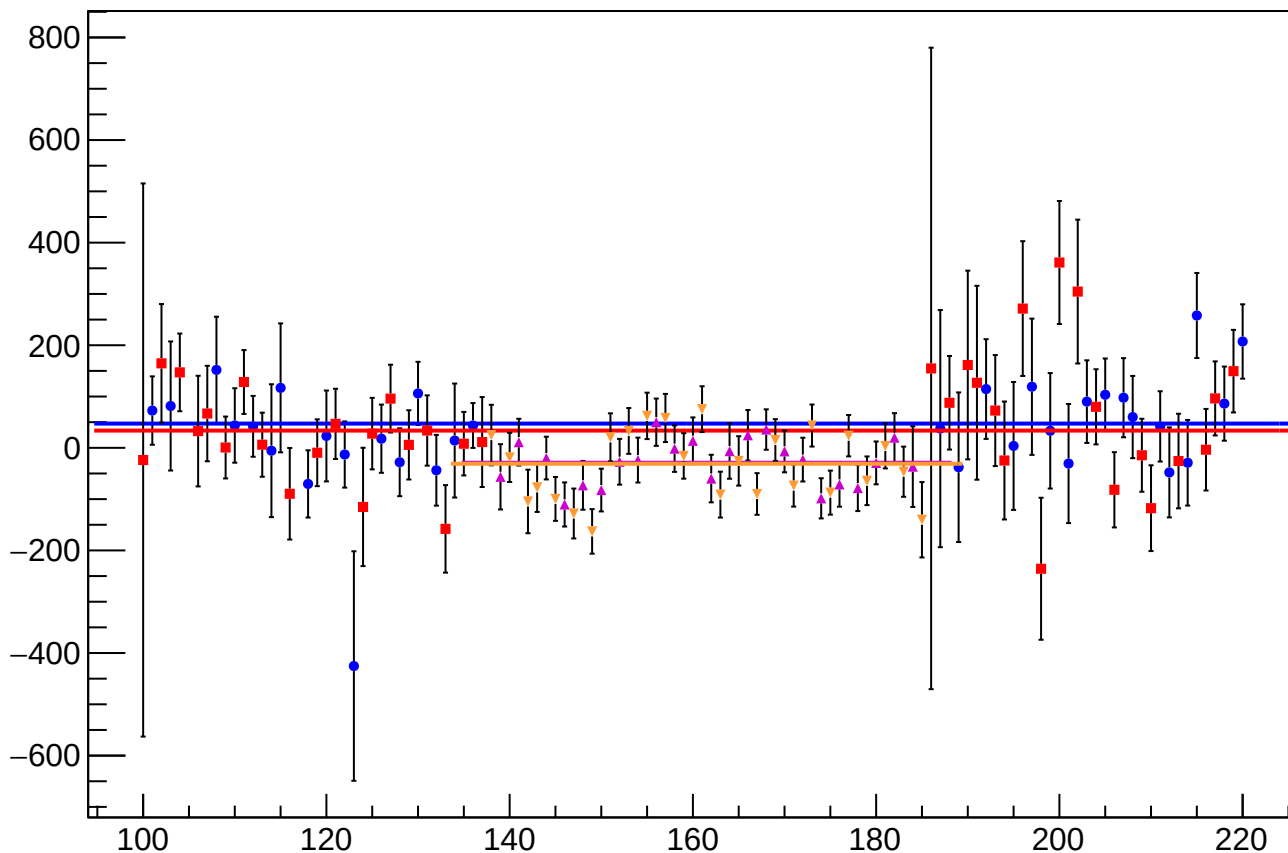
Right: 561.662 $\pm$ 0.067 χ^2 /NDF: 5529237.6/70

In: 399.258 $\pm$ 0.049 χ^2 /NDF: 6615201.6/56

Out: 399.725 $\pm$ 0.049 χ^2 /NDF: 7852157.8/61

All: 399.495 $\pm$ 0.035 χ^2 /NDF: 14467405.1/117

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 47.246 ± 13.777 $\chi^2/\text{NDF}: 31.3/33$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 33.631 ± 13.873 $\chi^2/\text{NDF}: 46.7/36$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

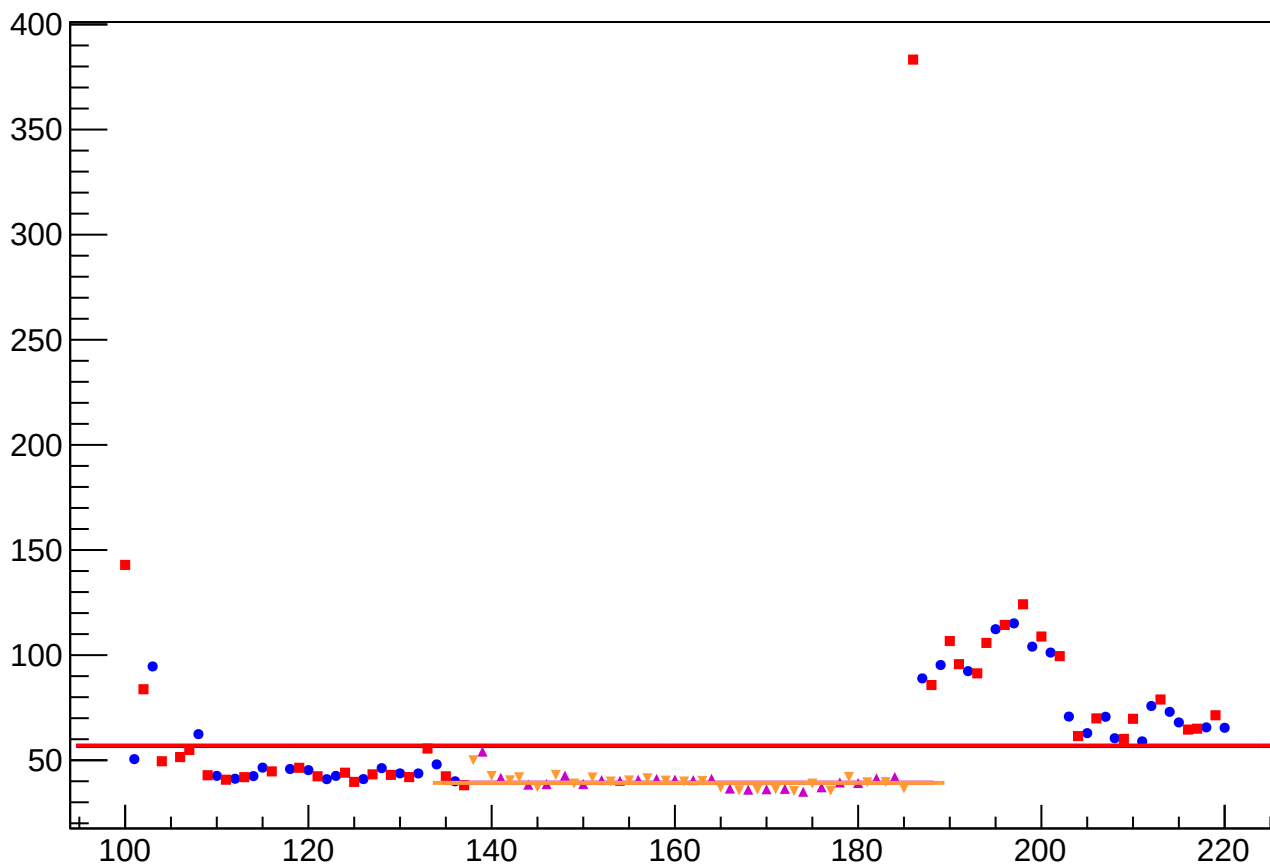
Right: 40.486 ± 9.776 $\chi^2/\text{NDF}: 78.5/70$

In: -4.644 ± 7.793 $\chi^2/\text{NDF}: 74.6/56$

Out: -11.392 ± 7.650 $\chi^2/\text{NDF}: 114.4/61$

All: -8.081 ± 5.459 $\chi^2/\text{NDF}: 189.4/118$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.737 $\pm$ 0.010 χ^2 /NDF: 3592275.6/33

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 57.008 $\pm$ 0.010 χ^2 /NDF: 4634800.3/36

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

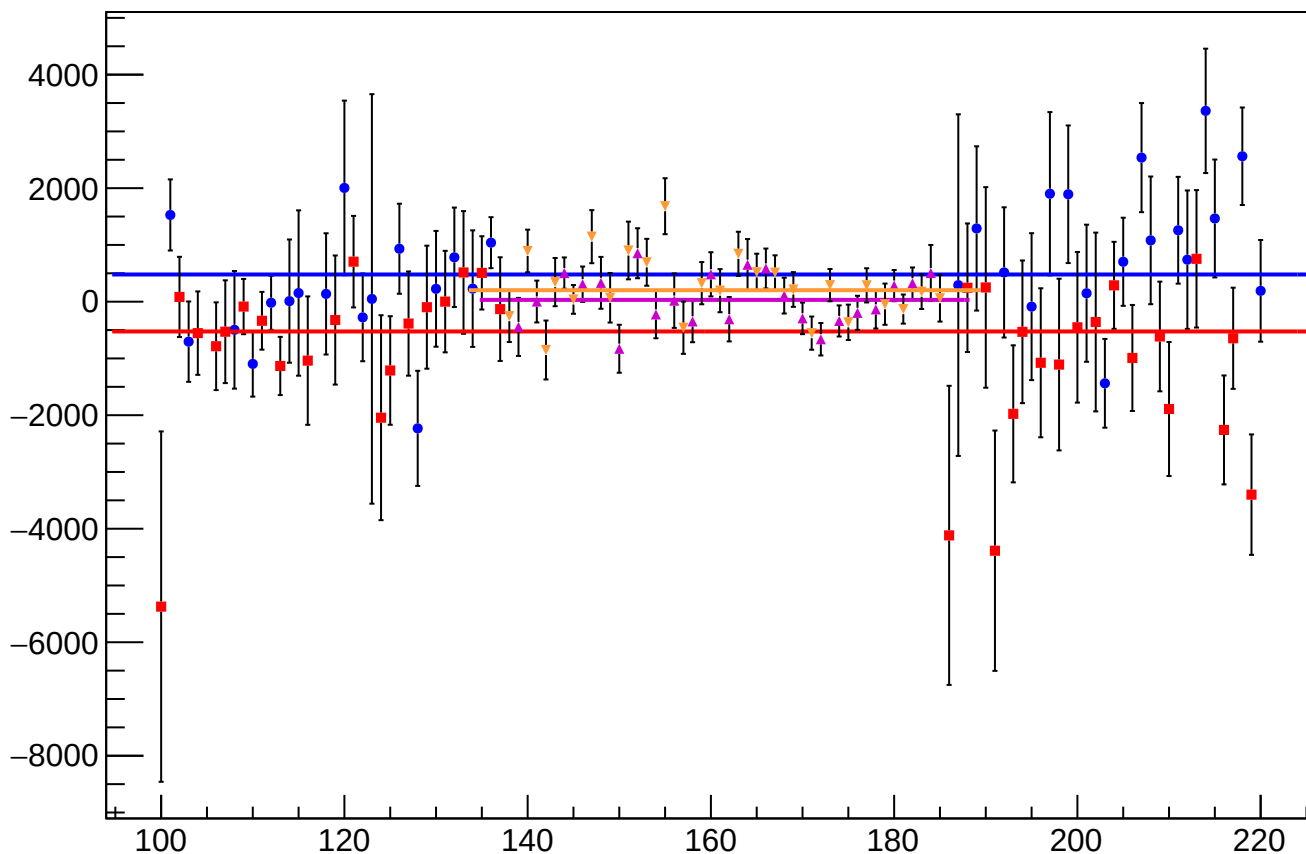
Right: 56.871 $\pm$ 0.007 χ^2 /NDF: 8227459.9/70

In: 44.905 $\pm$ 0.006 χ^2 /NDF: 5977181.6/56

Out: 44.639 $\pm$ 0.005 χ^2 /NDF: 7121252.8/61

All: 44.769 $\pm$ 0.004 χ^2 /NDF: 13099619.1/118

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 479.132 $\pm$ 152.306 χ^2 /NDF: 55.0/33

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -524.734 $\pm$ 150.249 χ^2 /NDF: 35.8/36

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

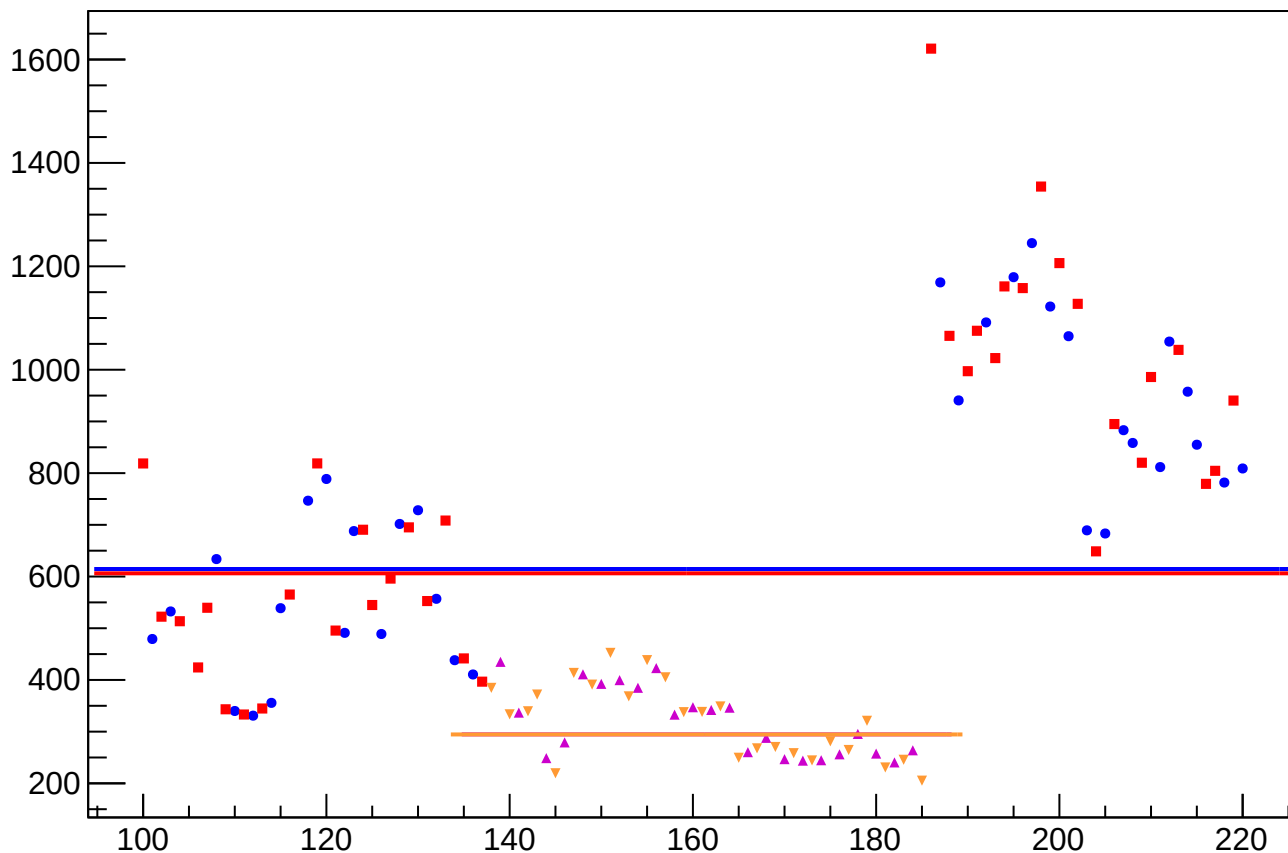
Right: -29.625 $\pm$ 106.962 χ^2 /NDF: 112.8/70

In: 113.488 $\pm$ 65.167 χ^2 /NDF:95.5/56

Out: 71.396 $\pm$ 63.768 χ^2 /NDF:99.8/61

All: 91.986 $\pm$ 45.577 χ^2 /NDF: 195.4/118

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 614.570 $\pm$ 0.108 χ^2 /NDF: 5093483.9/33

Left Out: 294.591 $\pm$ 0.050 χ^2 /NDF:1680474.5/24

Right Out: 606.236 $\pm$ 0.106 χ^2 /NDF: 6306200.5/36

Left In: 294.722 $\pm$ 0.051 χ^2 /NDF:1297310.3/22

Left: 294.655 $\pm$ 0.036 χ^2 /NDF: 2977788.1/47

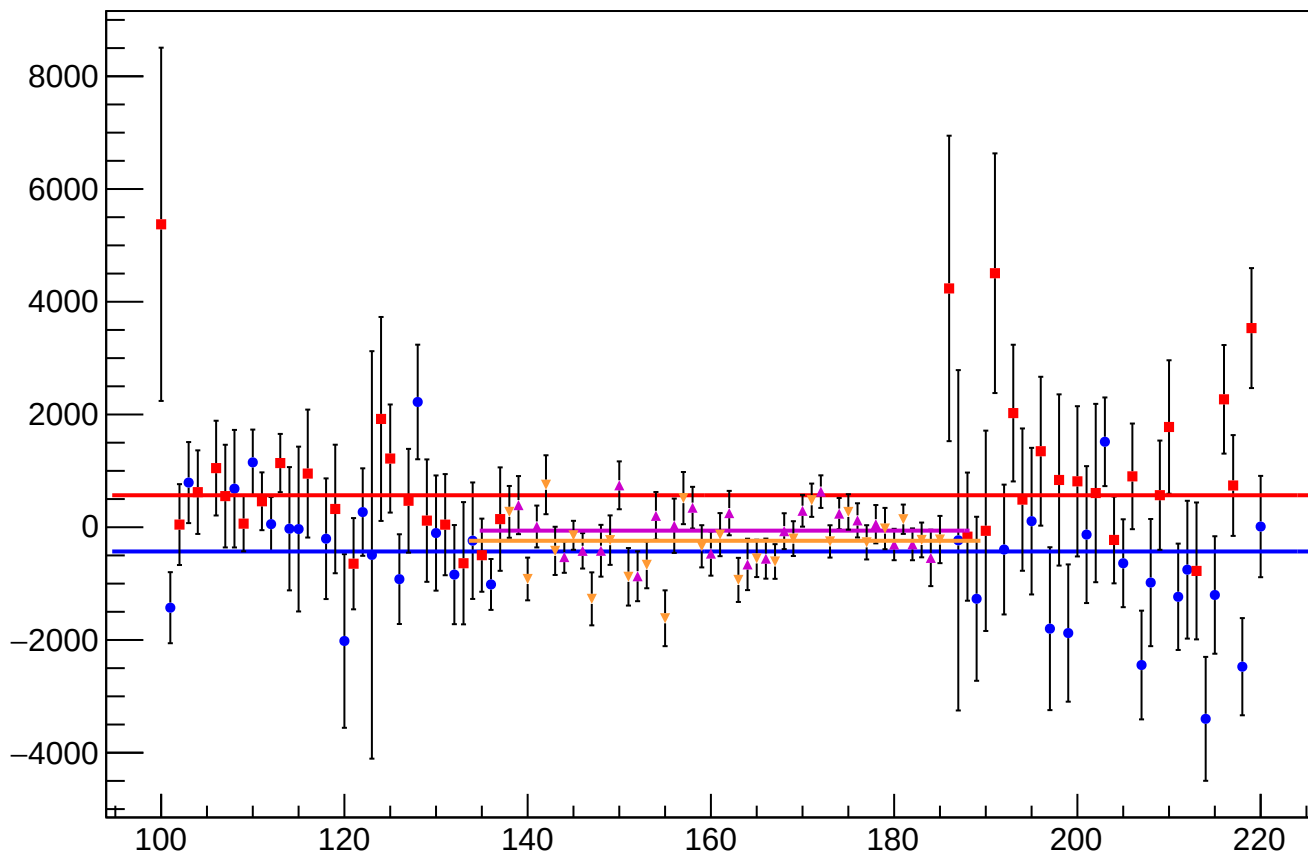
Right: 610.346 $\pm$ 0.076 χ^2 /NDF: 11402719.6/70

In: 353.277 $\pm$ 0.046 χ^2 /NDF:13596390.1/56

Out: 350.728 $\pm$ 0.045 χ^2 /NDF:15041244.9/61

All: 351.975 $\pm$ 0.032 χ^2 /NDF: 28639198.3/111

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -429.856 ± 153.128 $\chi^2/\text{NDF}: 54.5/33$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 567.422 ± 151.531 $\chi^2/\text{NDF}: 35.7/36$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

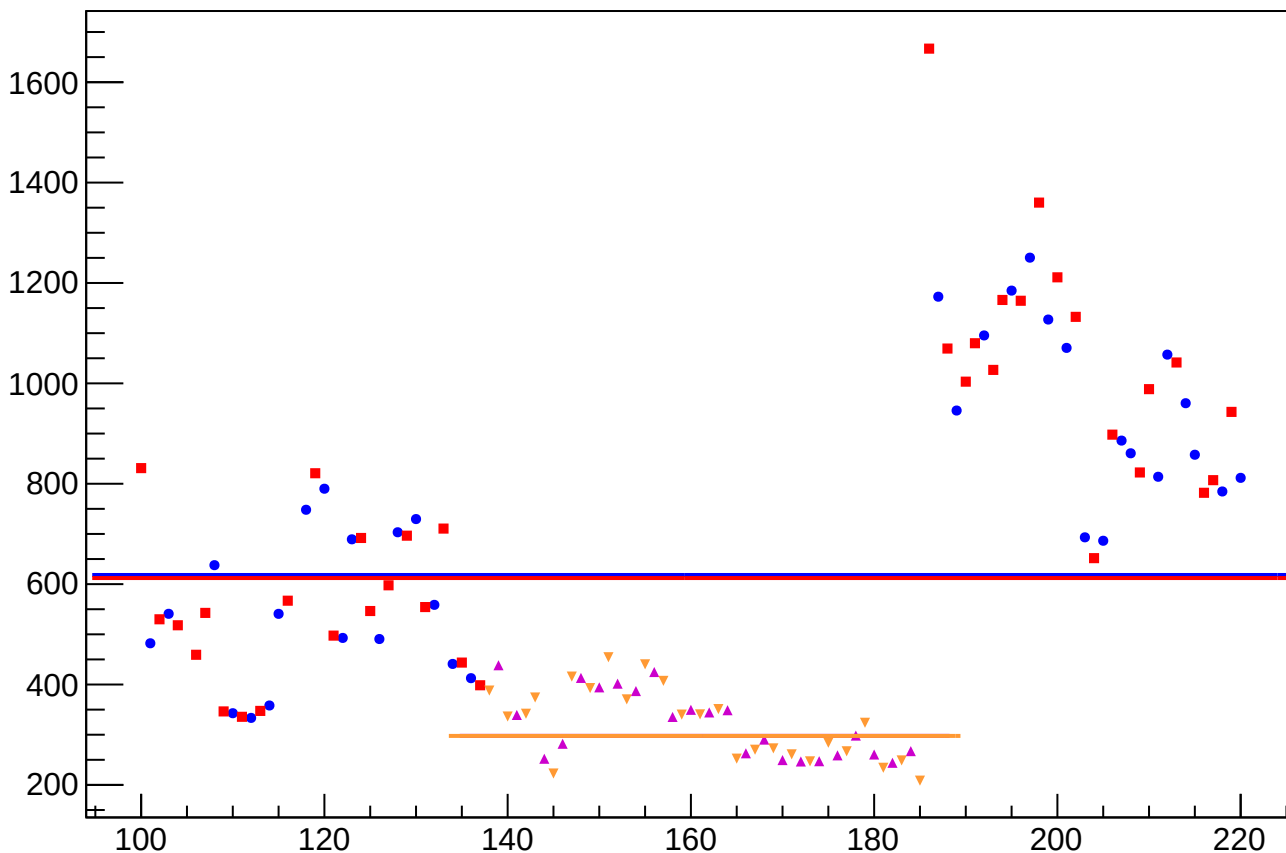
Right: 74.010 ± 107.709 $\chi^2/\text{NDF}: 111.6/70$

In: -128.435 ± 65.739 $\chi^2/\text{NDF}: 90.1/56$

Out: -94.605 ± 64.367 $\chi^2/\text{NDF}: 101.9/61$

All: -111.163 ± 45.992 $\chi^2/\text{NDF}: 192.2/118$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 618.232 $\pm$ 0.108 χ^2 /NDF: 5059048.5/33

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF: 1637757.8/24

Right Out: 612.130 $\pm$ 0.107 χ^2 /NDF: 6225842.4/36

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF: 1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

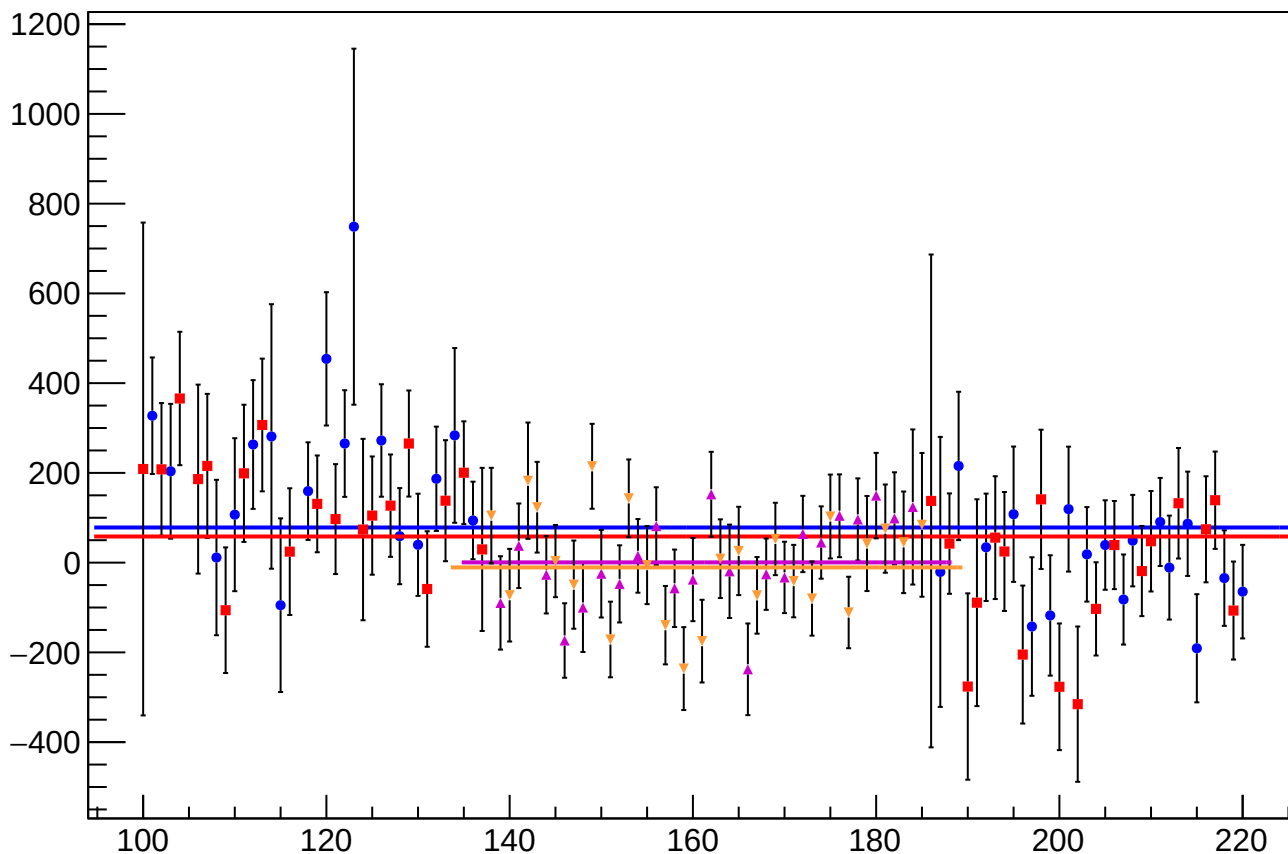
Right: 615.149 $\pm$ 0.076 χ^2 /NDF: 11286495.6/70

In: 356.775 $\pm$ 0.046 χ^2 /NDF: 13473479.8/56

Out: 354.363 $\pm$ 0.046 χ^2 /NDF: 14925080.3/61

All: 355.543 $\pm$ 0.033 χ^2 /NDF: 28399934.9/117

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 78.330 $\pm$ 21.689 χ^2 /NDF: 41.3/33

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 58.254 $\pm$ 22.168 χ^2 /NDF: 41.6/36

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

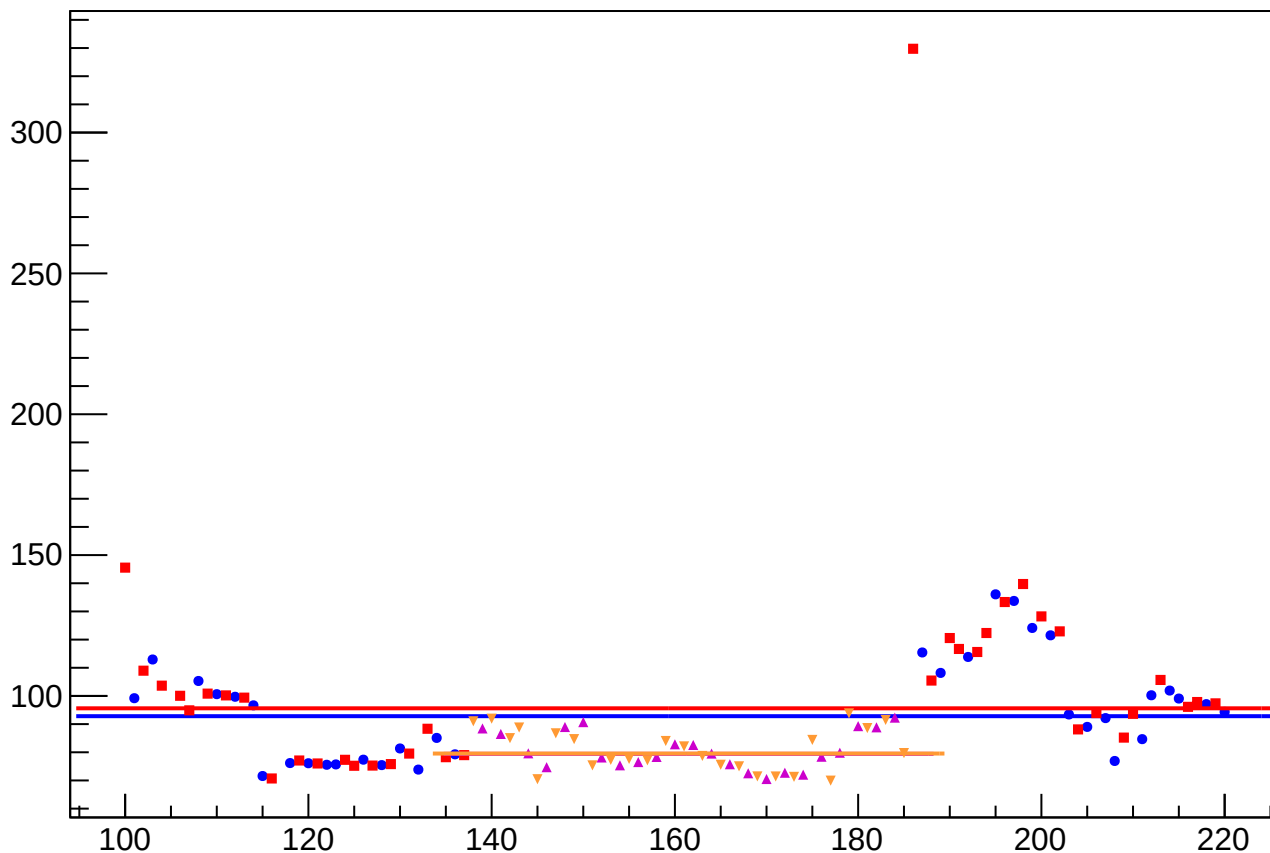
Right: 68.511 $\pm$ 15.503 χ^2 /NDF: 83.3/70

In: 34.520 $\pm$ 14.330 χ^2 /NDF:72.3/56

Out: 17.825 $\pm$ 14.253 χ^2 /NDF:83.6/61

All: 26.127 $\pm$ 10.106 χ^2 /NDF: 156.6/118

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.815 $\pm$ 0.015 χ^2 /NDF: 1095618.1/33

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 95.608 $\pm$ 0.016 χ^2 /NDF: 1536787.7/36

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

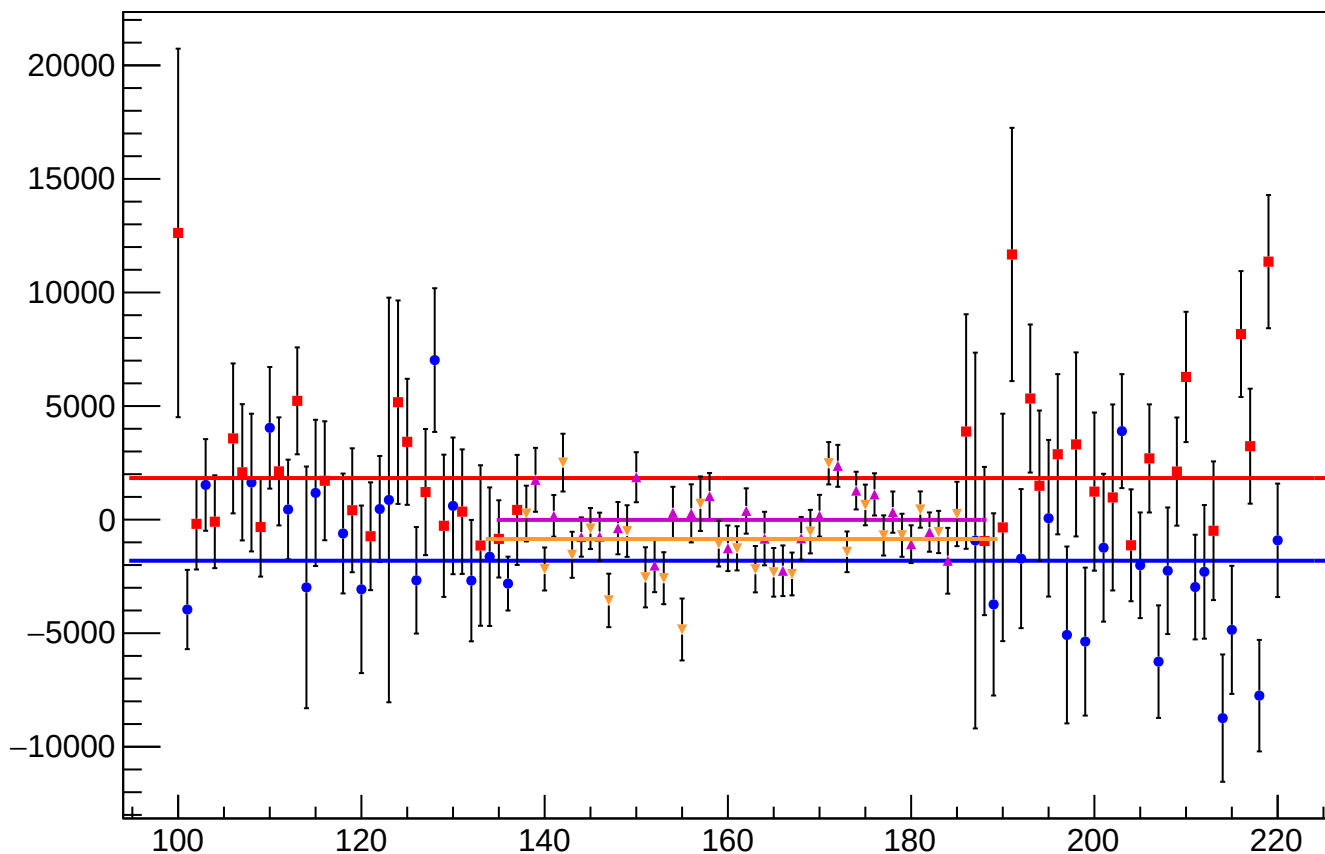
Right: 94.181 $\pm$ 0.011 χ^2 /NDF: 2648629.5/70

In: 85.277 $\pm$ 0.010 χ^2 /NDF: 1736810.4/56

Out: 86.189 $\pm$ 0.010 χ^2 /NDF: 2461387.9/61

All: 85.735 $\pm$ 0.007 χ^2 /NDF: 4202270.1/118

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1809.722 ± 448.665 $\chi^2/\text{NDF}: 47.5/33$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1830.561 ± 461.645 $\chi^2/\text{NDF}: 40.0/36$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

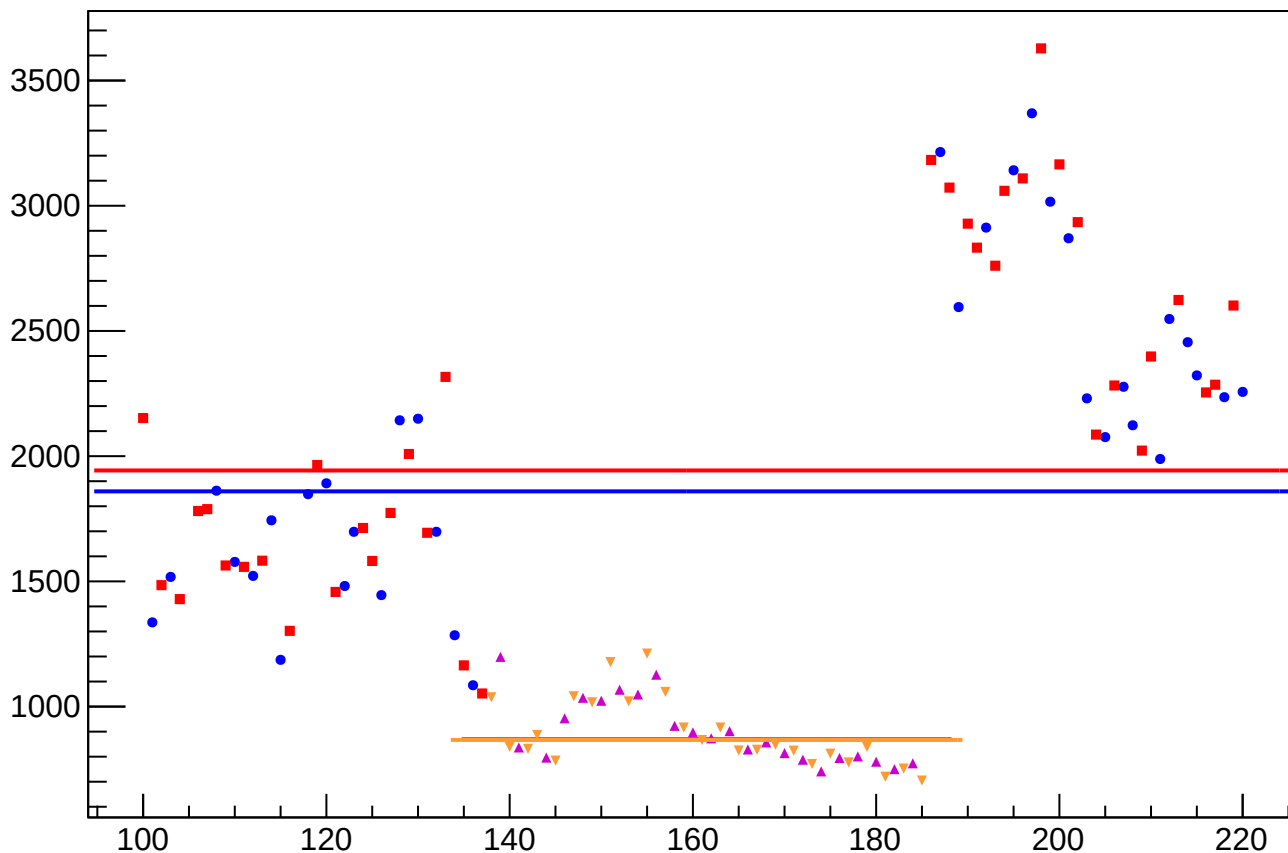
Right: -41.473 ± 321.745 $\chi^2/\text{NDF}: 119.4/70$

In: -334.989 ± 190.251 $\chi^2/\text{NDF}: 91.9/56$

Out: -415.203 ± 186.662 $\chi^2/\text{NDF}: 124.2/61$

All: -375.860 ± 133.241 $\chi^2/\text{NDF}: 216.2/118$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1859.472 $\pm$ 0.317 χ^2 /NDF: 3350175.7/33

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1942.895 $\pm$ 0.326 χ^2 /NDF: 3508152.8/36

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

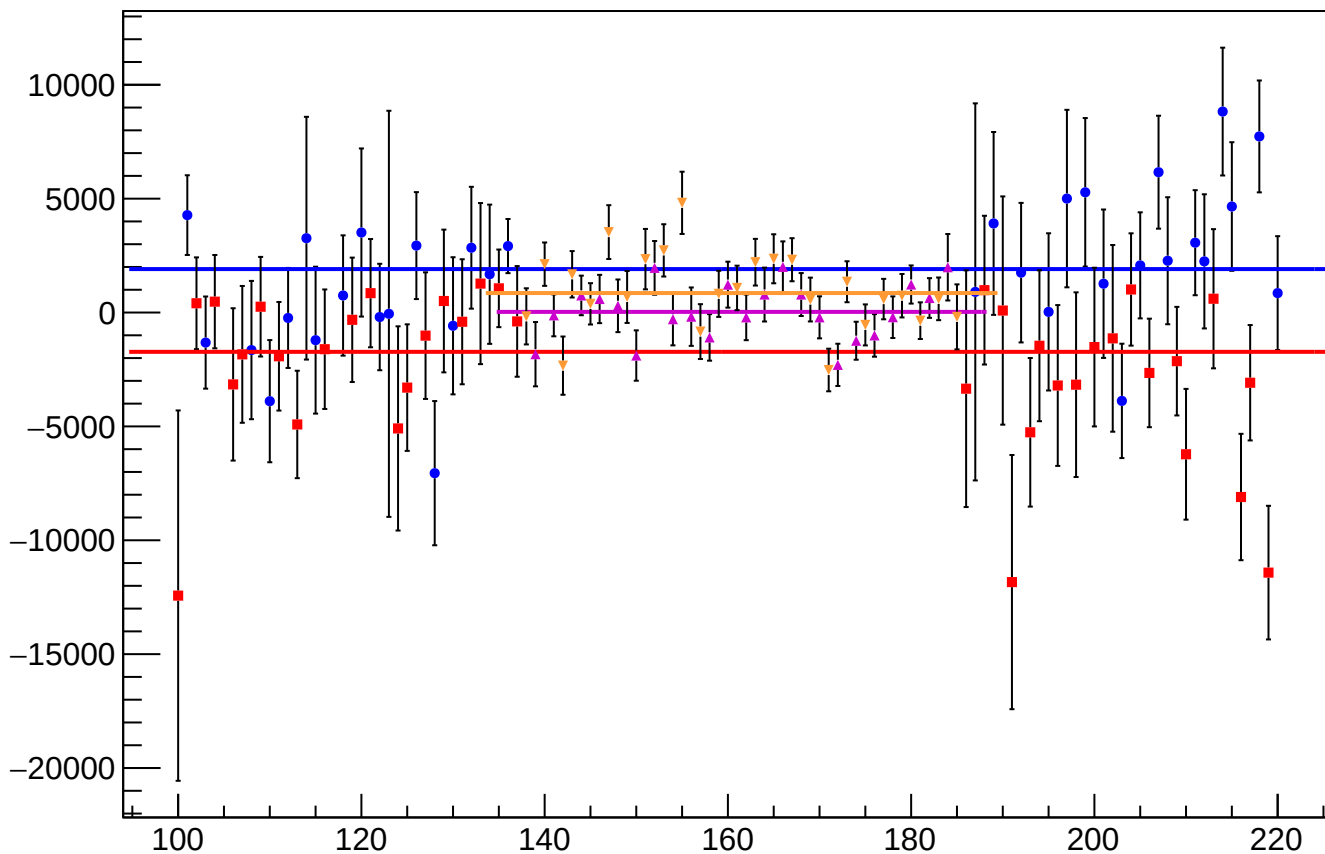
Right: 1899.994 $\pm$ 0.228 χ^2 /NDF: 6891914.6/70

In: 1047.562 $\pm$ 0.135 χ^2 /NDF: 11917672.6/56

Out: 1042.811 $\pm$ 0.132 χ^2 /NDF: 13258731.2/61

All: 1045.141 $\pm$ 0.094 χ^2 /NDF: 25177039.2/113

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1908.032 $\pm$ 449.378 χ^2 /NDF: 47.0/33

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF: 54.1/24

Right Out: -1726.044 $\pm$ 462.454 χ^2 /NDF: 40.3/36

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF: 29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

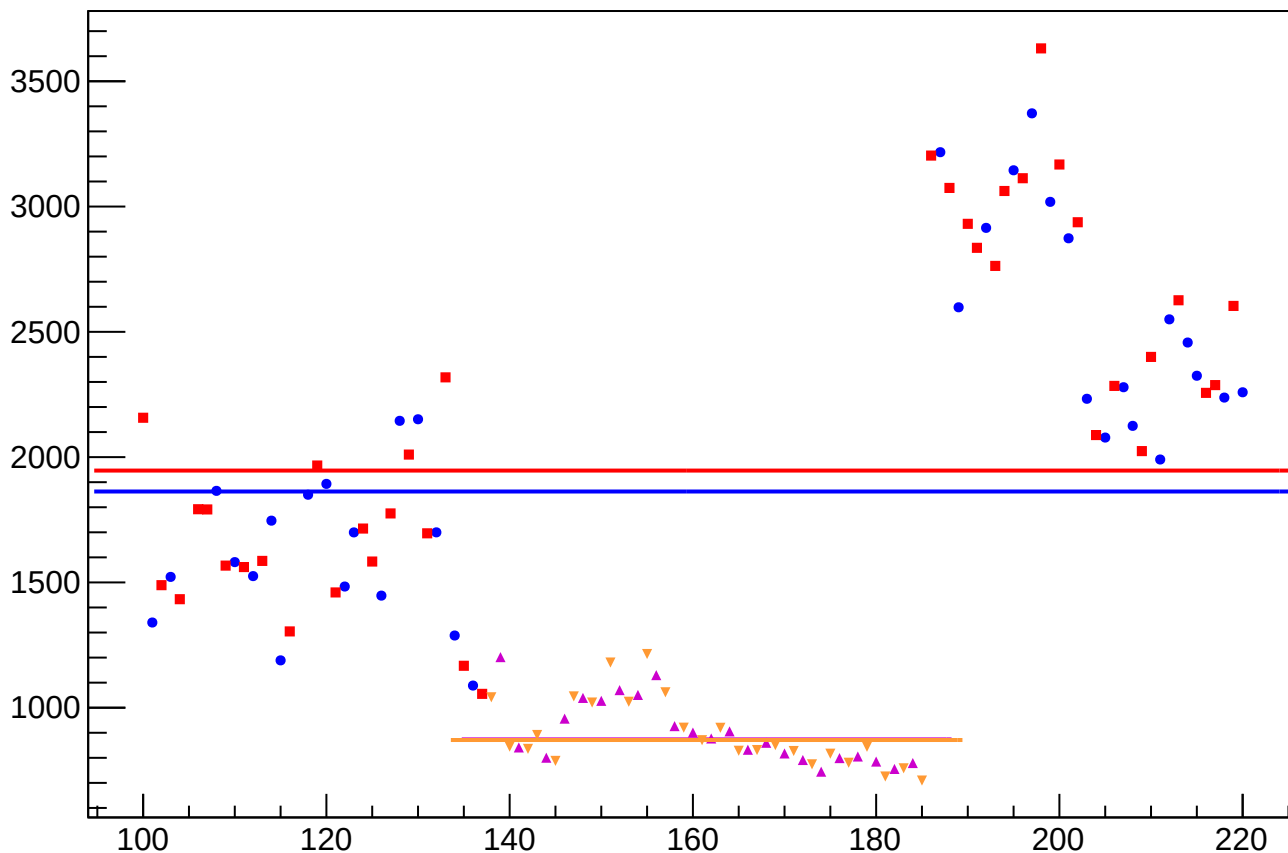
Right: 143.099 $\pm$ 322.282 χ^2 /NDF: 119.1/70

In: 368.153 $\pm$ 191.019 χ^2 /NDF: 91.1/56

Out: 431.505 $\pm$ 187.448 χ^2 /NDF: 120.4/61

All: 400.426 $\pm$ 133.790 χ^2 /NDF: 211.6/118

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1862.840 $\pm$ 0.318 χ^2/NDF : 3335582.7/33

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1946.389 $\pm$ 0.327 χ^2/NDF : 3497418.8/36

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

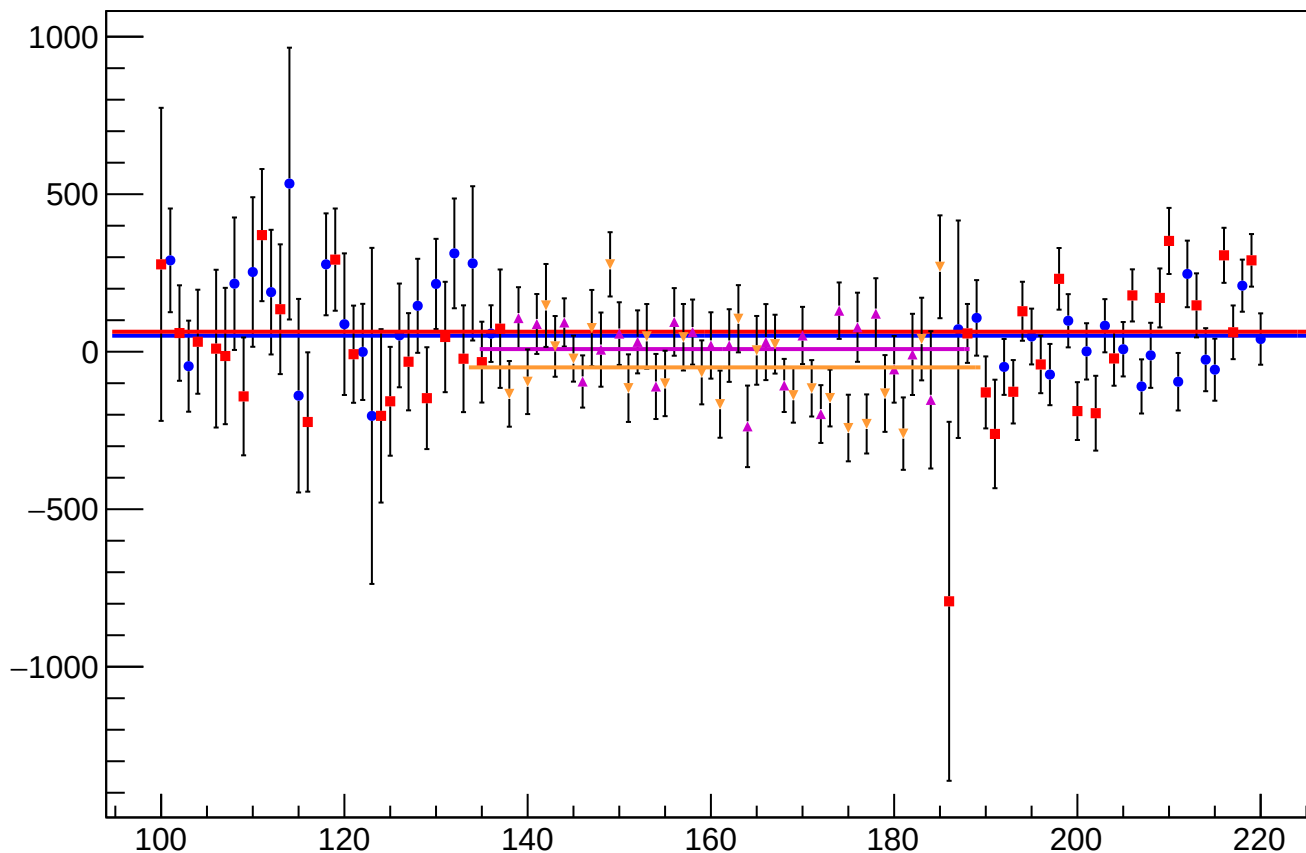
Right: 1903.417 $\pm$ 0.228 χ^2/NDF : 6866577.2/70

In: 1052.406 $\pm$ 0.135 χ^2/NDF : 11848910.5/56

Out: 1047.771 $\pm$ 0.133 χ^2/NDF : 13185442.5/61

All: 1050.045 $\pm$ 0.095 χ^2/NDF : 25034952.7/13

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 50.835 ± 20.036 χ^2/NDF : 32.7/33

Left Out: -49.717 ± 20.580 χ^2/NDF : 39.4/24

Right Out: 63.474 ± 20.292 χ^2/NDF : 70.0/36

Left In: 8.343 ± 21.271 χ^2/NDF : 22.0/22

Left: -21.646 ± 14.791 χ^2/NDF : 65.3/47

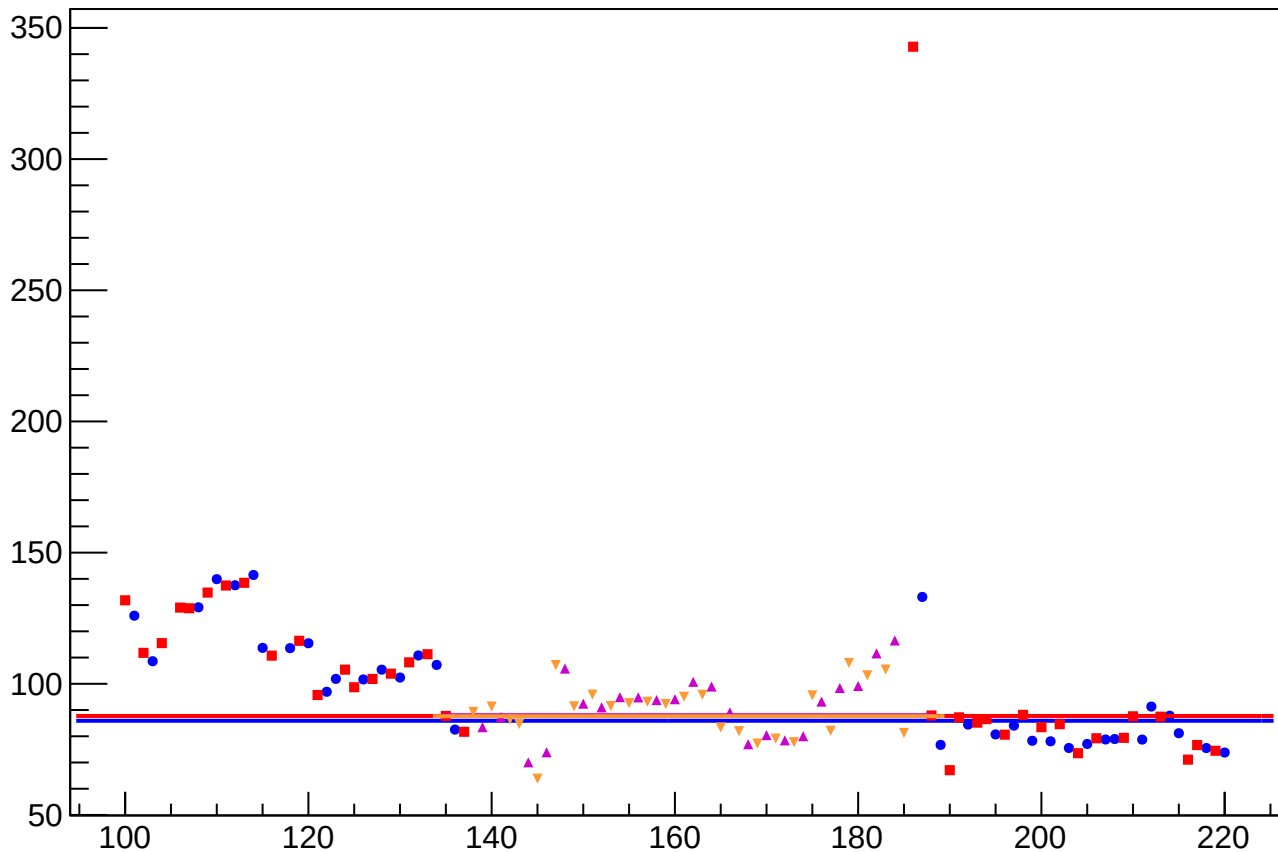
Right: 57.074 ± 14.257 χ^2/NDF : 102.9/70

In: 30.859 ± 14.585 χ^2/NDF : 56.8/56

Out: 7.677 ± 14.449 χ^2/NDF : 124.7/61

All: 19.160 ± 10.265 χ^2/NDF : 182.8/118

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 85.908 $\pm$ 0.014 χ^2 /NDF: 1046236.4/33

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 87.741 $\pm$ 0.014 χ^2 /NDF: 1553214.5/36

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

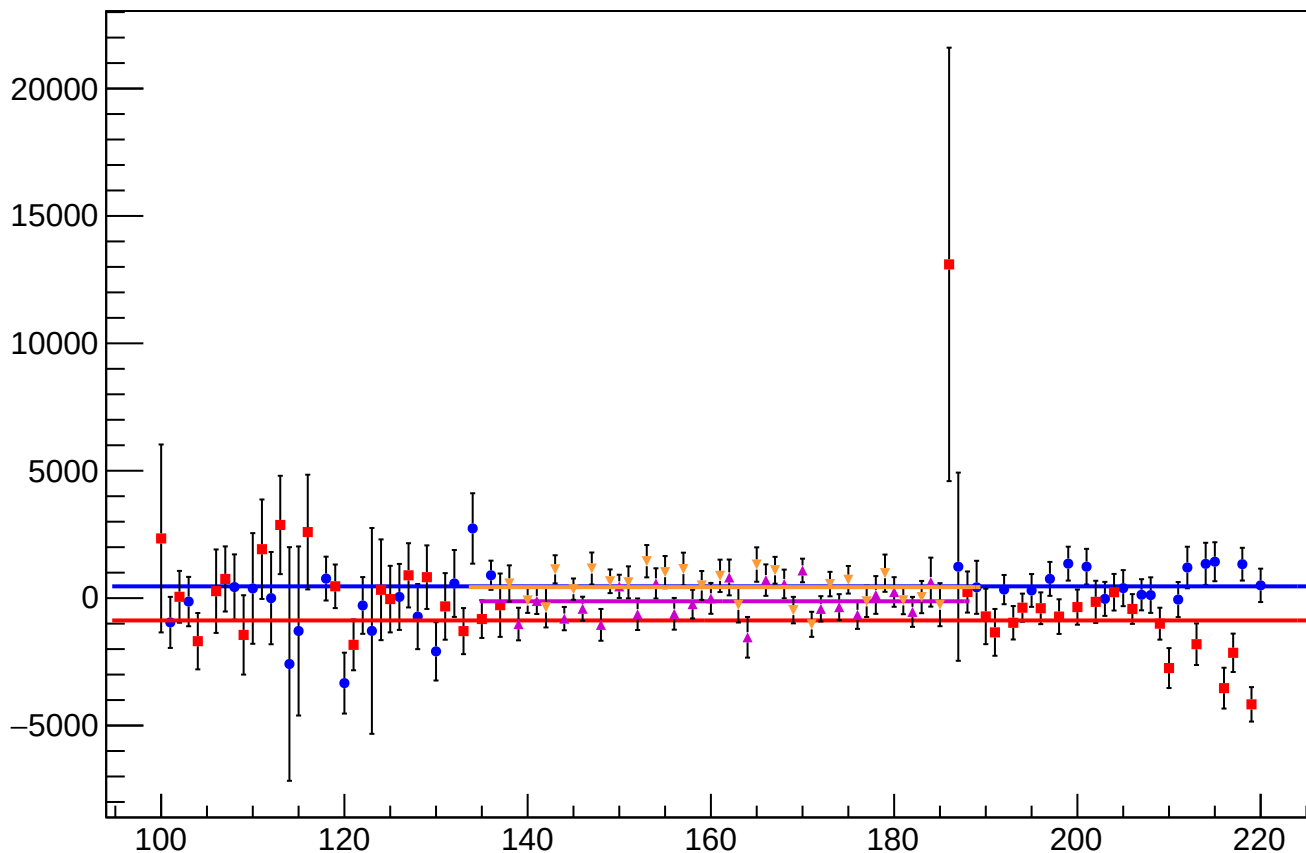
Right: 86.813 $\pm$ 0.010 χ^2 /NDF: 2607709.5/70

In: 86.907 $\pm$ 0.010 χ^2 /NDF: 1580513.6/56

Out: 87.684 $\pm$ 0.010 χ^2 /NDF: 2107936.9/61

All: 87.299 $\pm$ 0.007 χ^2 /NDF: 3691316.5/118

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 462.576+/-147.627 χ^2/NDF : 33.7/33

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -875.367+/-146.998 χ^2/NDF : 76.5/36

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

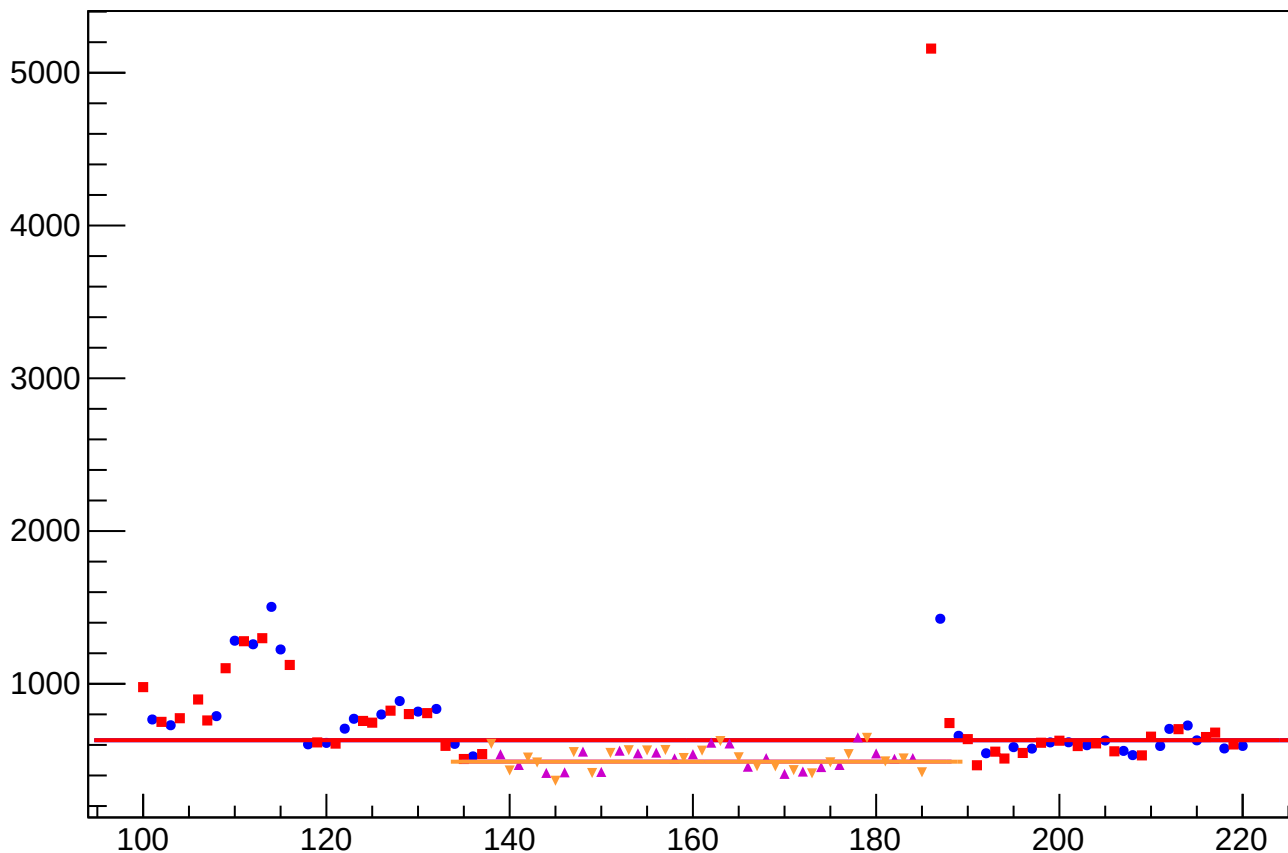
Right: -209.251+/-104.165 χ^2/NDF : 151.4/70

In: 107.269+/-92.576 χ^2/NDF :72.5/56

Out: -68.345+/-90.919 χ^2/NDF :155.8/61

All: 17.876+/-64.868 χ^2/NDF : 230.1/118

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 630.540 $\pm$ 0.104 χ^2 /NDF: 1248113.7/33

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 631.053 $\pm$ 0.104 χ^2 /NDF: 2052216.7/36

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

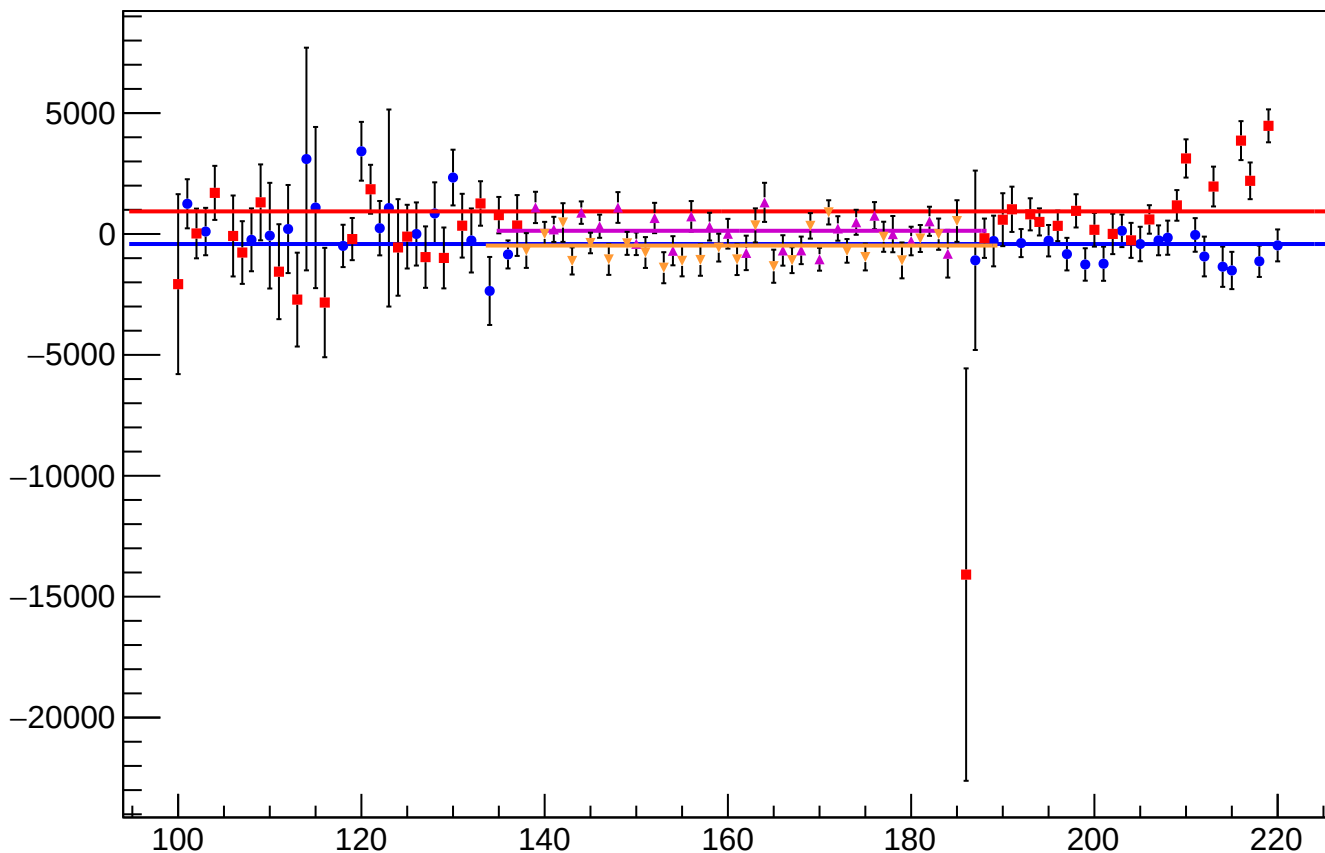
Right: 630.798 $\pm$ 0.074 χ^2 /NDF: 3300342.5/70

In: 545.820 $\pm$ 0.065 χ^2 /NDF: 2922952.3/56

Out: 544.125 $\pm$ 0.064 χ^2 /NDF: 3935226.7/61

All: 544.957 $\pm$ 0.046 χ^2 /NDF: 6858520.3/118

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -414.716 $\pm$ 149.127 χ^2 /NDF: 33.0/33

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 934.825 $\pm$ 148.600 χ^2 /NDF: 85.3/36

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

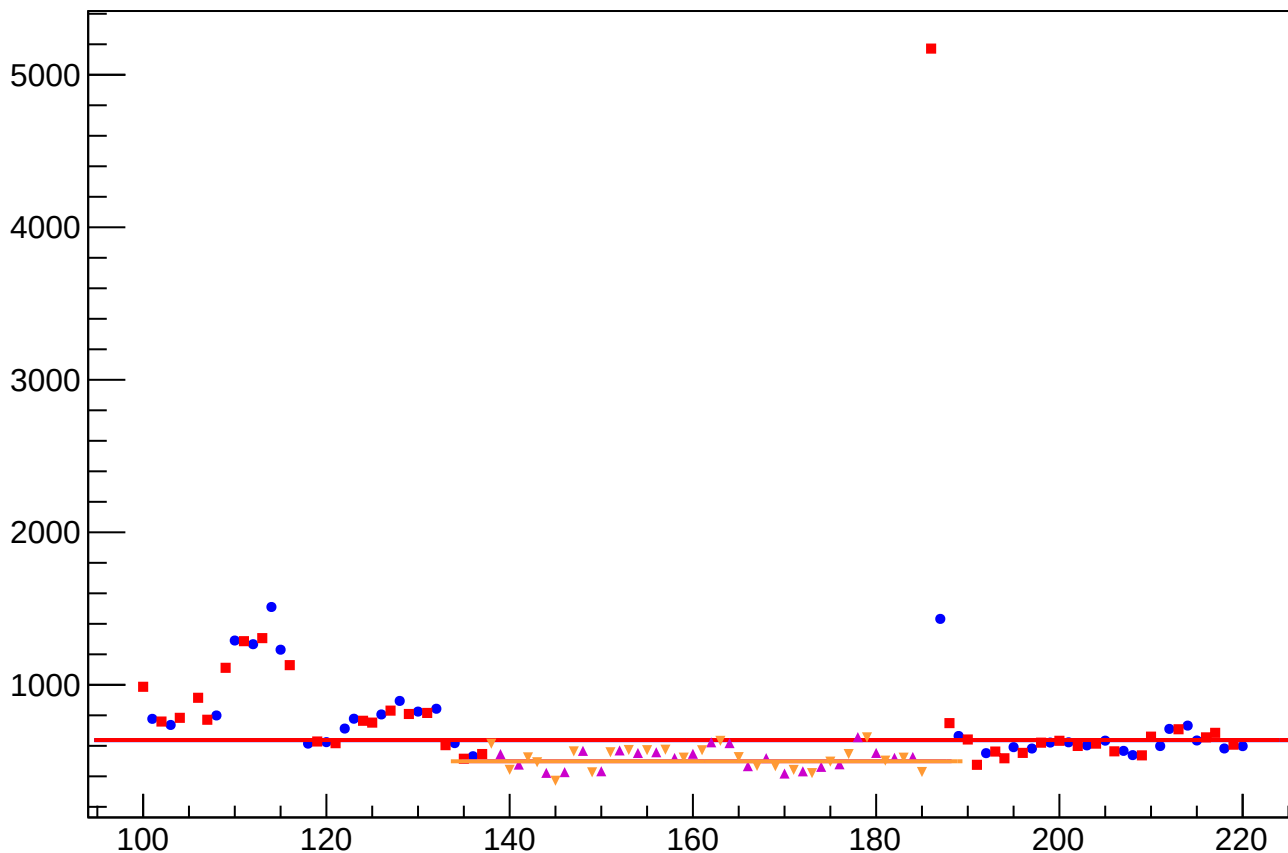
Right: 262.443 $\pm$ 105.262 χ^2 /NDF: 159.4/70

In: -84.425 $\pm$ 93.898 χ^2 /NDF:70.7/56

Out: 66.301 $\pm$ 92.245 χ^2 /NDF:168.7/61

All: -7.723 $\pm$ 65.804 χ^2 /NDF: 240.7/118

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 637.110+/-0.105 χ^2/NDF : 1236786.0/33

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 638.152+/-0.105 χ^2/NDF : 2030178.3/36

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

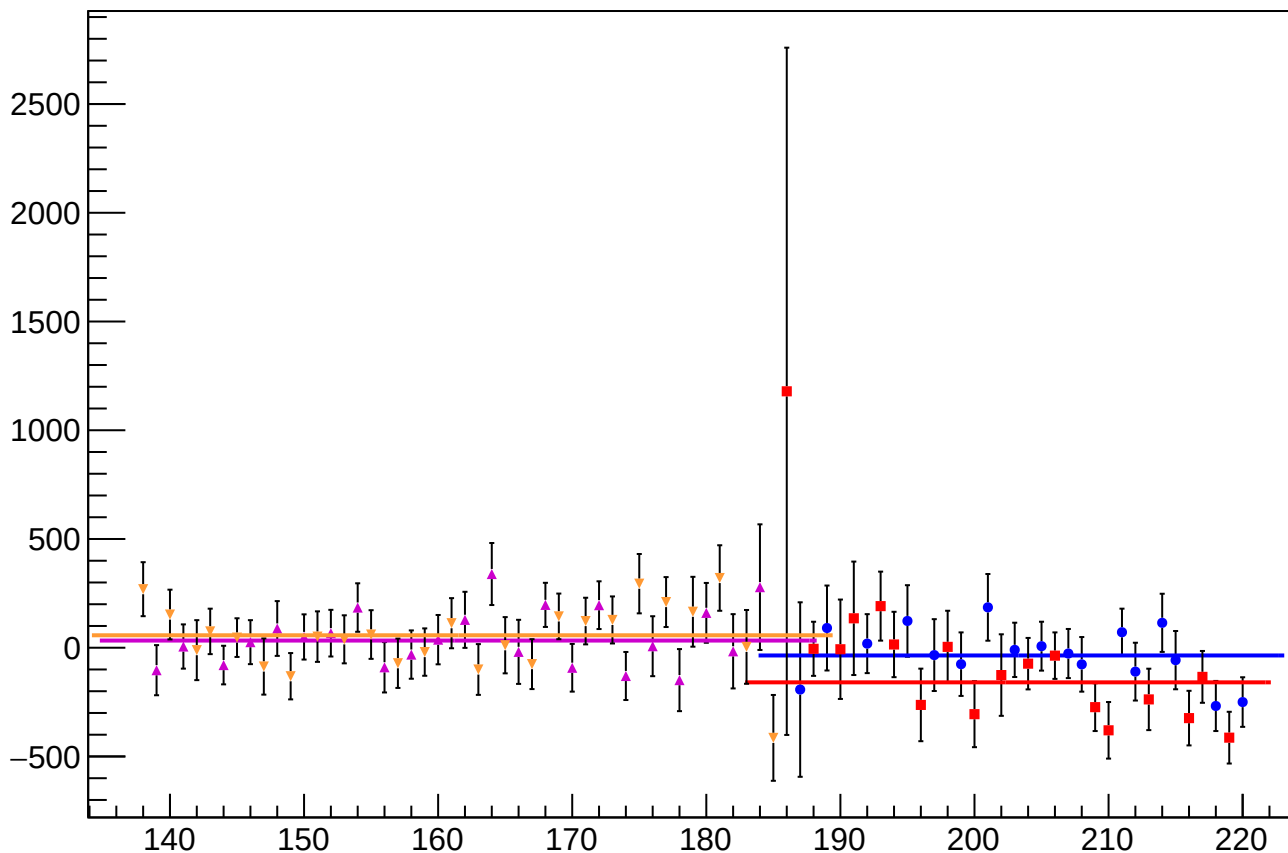
Right: 637.633+/-0.074 χ^2/NDF : 3267013.3/70

In: 553.992+/-0.066 χ^2/NDF : 2842756.9/56

Out: 552.470+/-0.065 χ^2/NDF : 3846262.7/61

All: 553.218+/-0.047 χ^2/NDF : 6689287.1/118

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -35.595 ± 32.604 $\chi^2/\text{NDF}: 14.3/16$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -159.212 ± 33.662 $\chi^2/\text{NDF}: 25.0/17$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

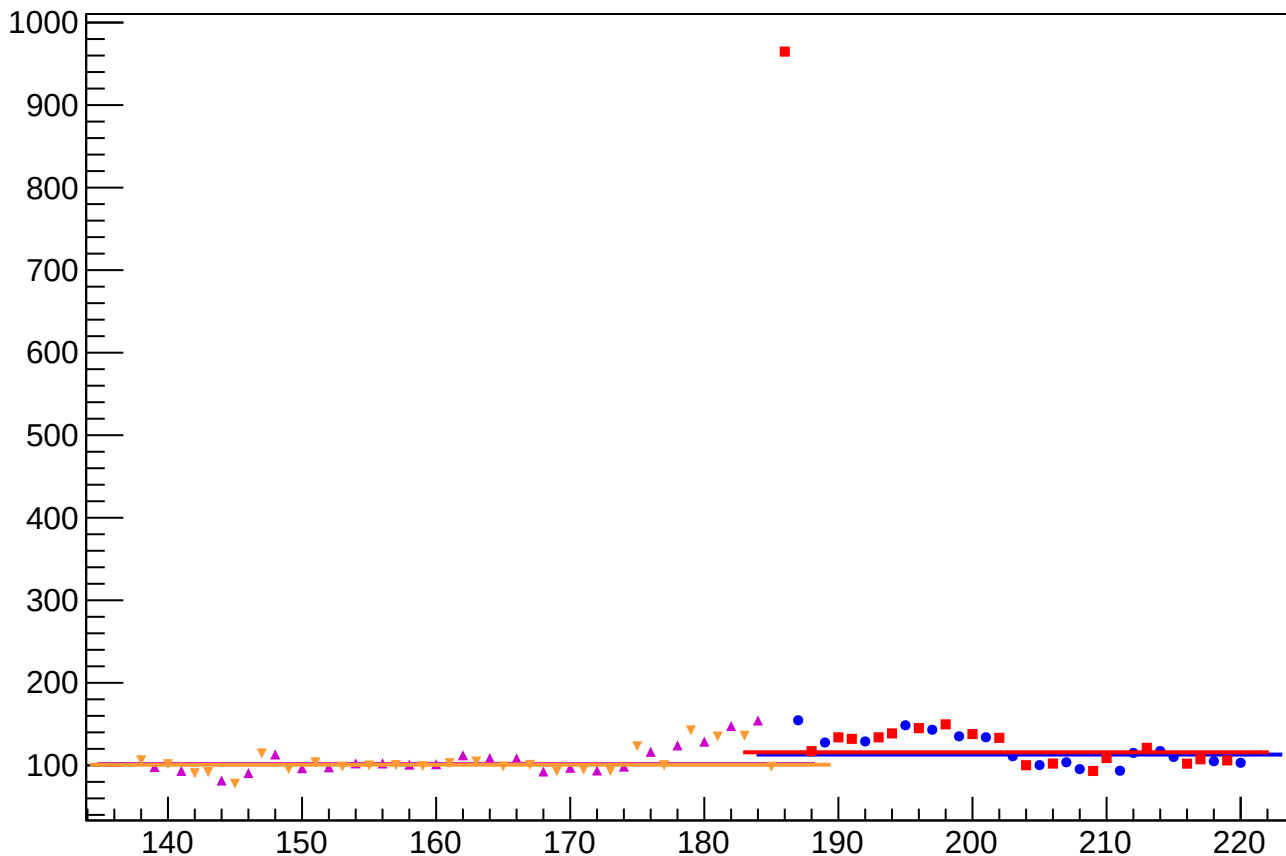
Right: -95.431 ± 23.420 $\chi^2/\text{NDF}: 46.2/34$

In: 8.100 ± 19.631 $\chi^2/\text{NDF}: 40.7/39$

Out: -14.571 ± 19.386 $\chi^2/\text{NDF}: 81.8/42$

All: -3.378 ± 13.794 $\chi^2/\text{NDF}: 123.2/82$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 113.087 $\pm$ 0.023 χ^2 /NDF: 476154.2/16

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 115.835 $\pm$ 0.024 χ^2 /NDF: 1083551.3/17

Left In: 101.622 $\pm$ 0.017 χ^2 /NDF: 582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2 /NDF: 1183987.6/47

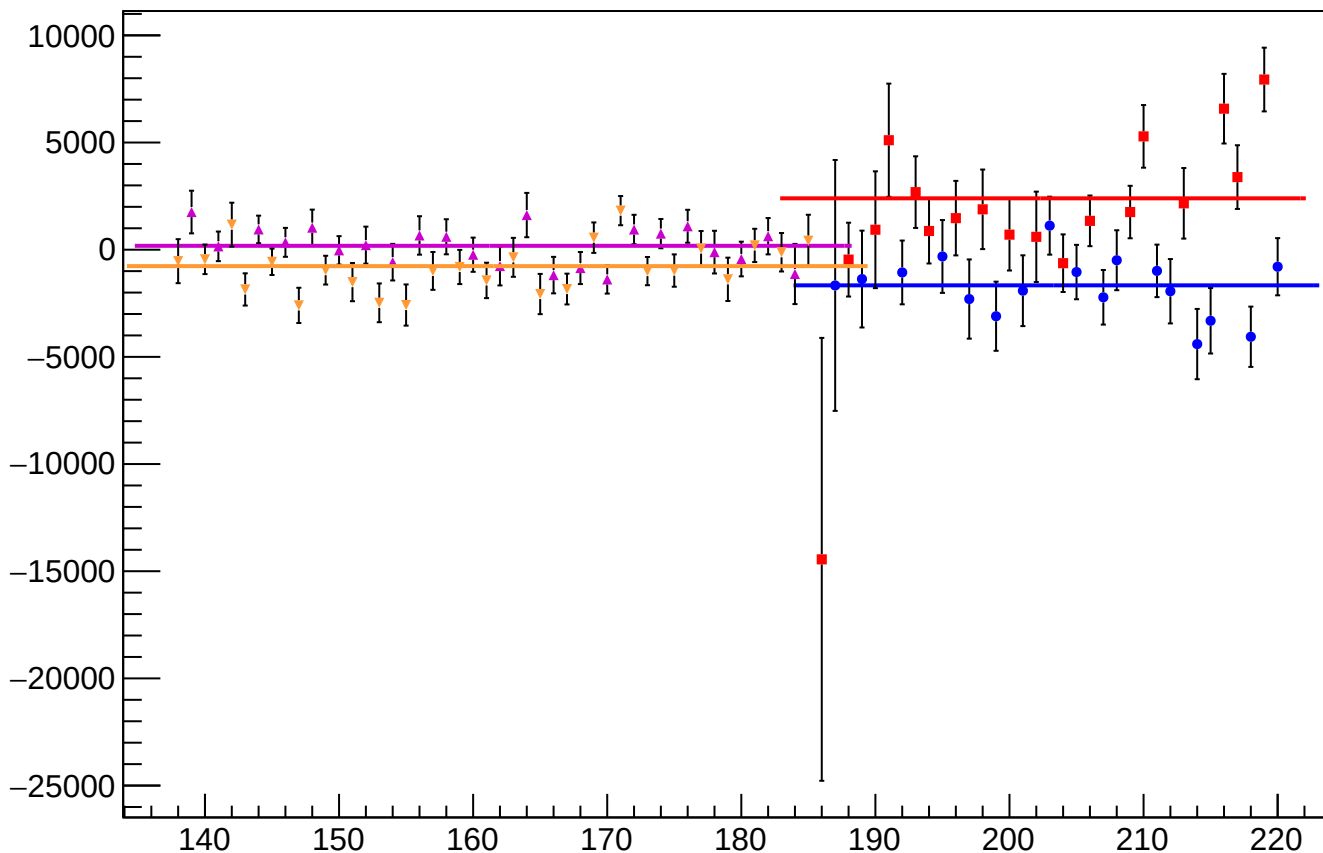
Right: 114.417 $\pm$ 0.017 χ^2 /NDF: 1566583.7/34

In: 105.778 $\pm$ 0.014 χ^2 /NDF: 1216145.8/39

Out: 105.787 $\pm$ 0.014 χ^2 /NDF: 1950705.2/42

All: 105.783 $\pm$ 0.010 χ^2 /NDF: 3166851.2/82

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1662.905 $\pm$ 369.069 χ^2 /NDF: 14.8/16

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 2396.501 $\pm$ 386.877 χ^2 /NDF: 40.9/17

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

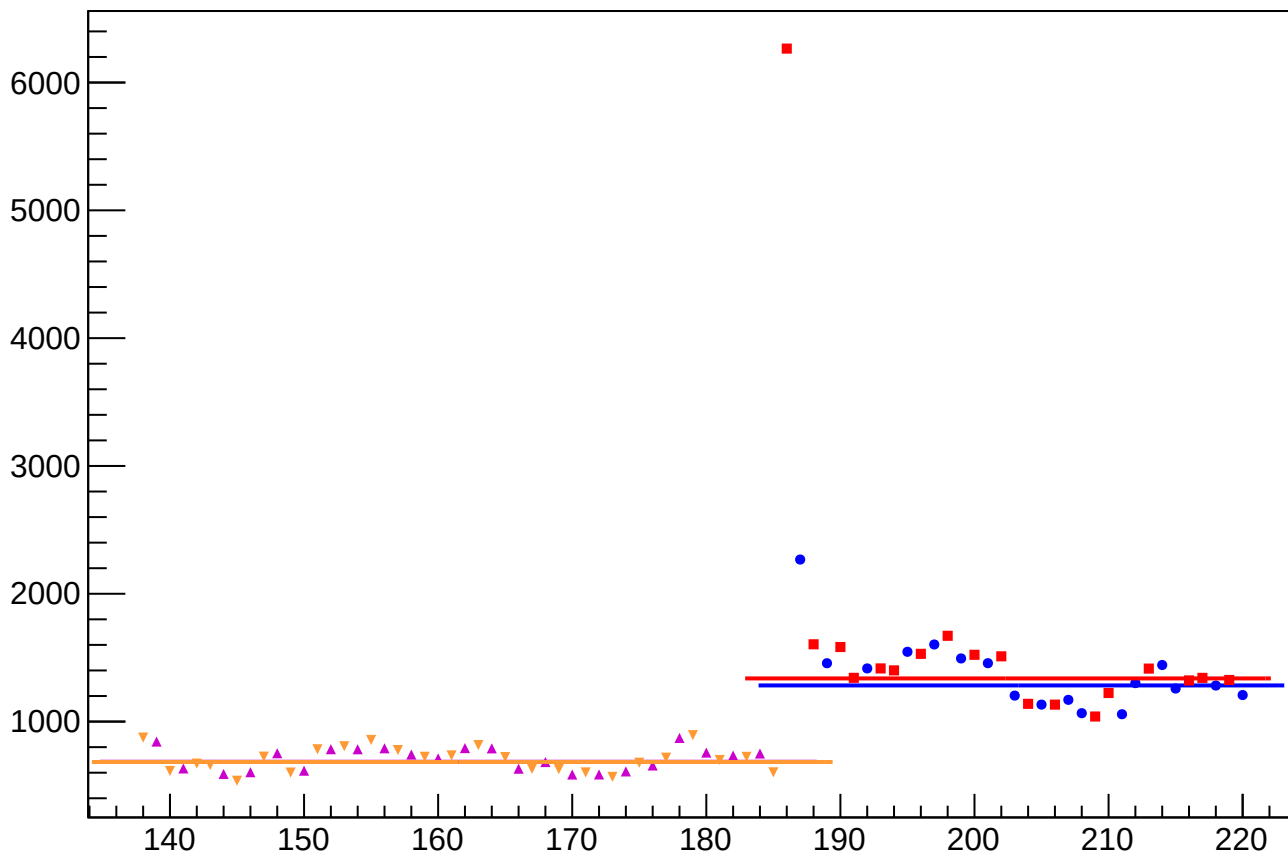
Right: 271.221 $\pm$ 267.045 χ^2 /NDF: 113.3/34

In: -127.751 $\pm$ 151.142 χ^2 /NDF:60.5/39

Out: -299.135 $\pm$ 148.695 χ^2 /NDF:144.5/42

All: -214.842 $\pm$ 105.998 χ^2 /NDF: 205.7/82

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1282.845 $\pm$ 0.261 χ^2 /NDF: 441692.9/16

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1337.716 $\pm$ 0.274 χ^2 /NDF: 893571.0/17

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

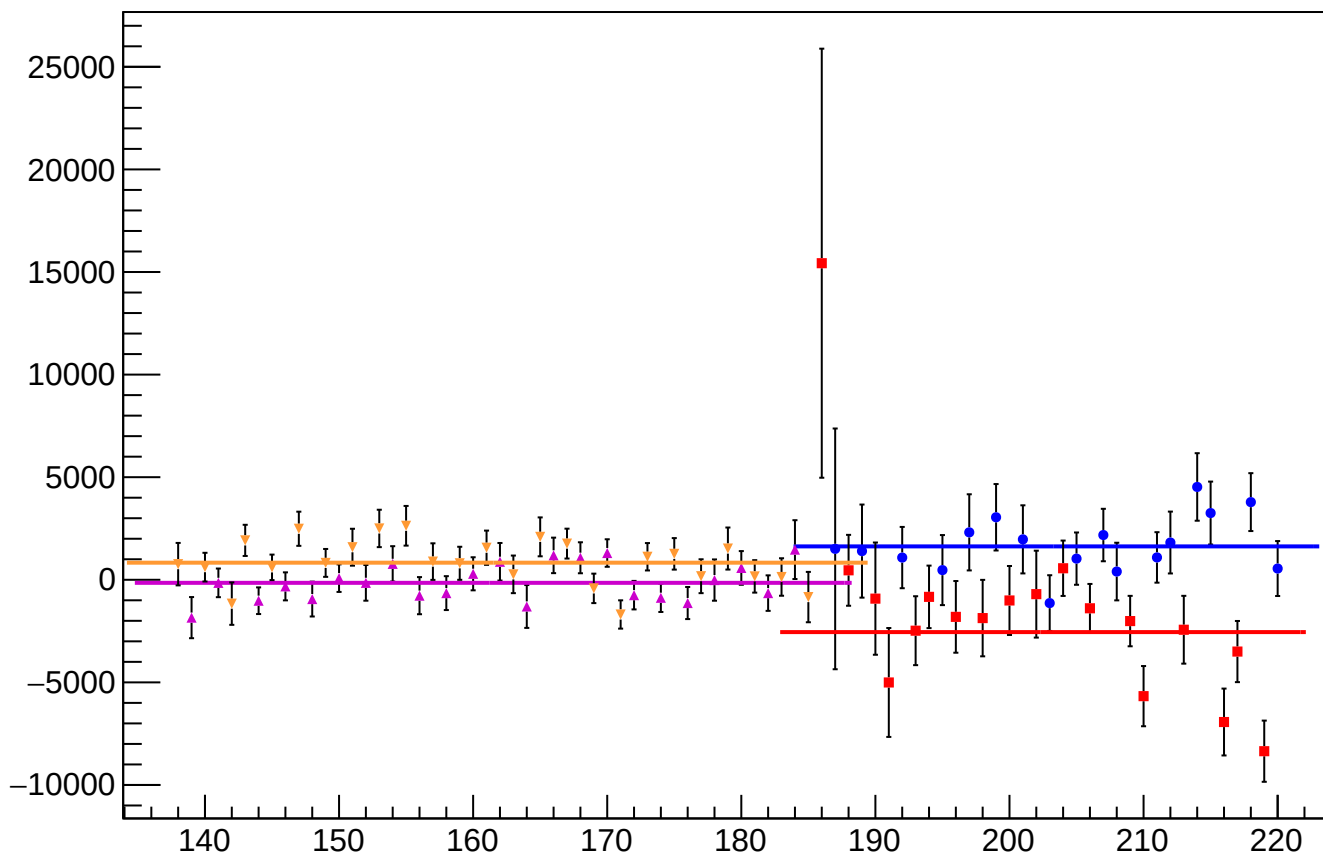
Right: 1308.988 $\pm$ 0.189 χ^2 /NDF: 1356327.3/34

In: 785.756 $\pm$ 0.107 χ^2 /NDF: 5330237.5/39

Out: 780.469 $\pm$ 0.105 χ^2 /NDF: 6429246.9/42

All: 783.070 $\pm$ 0.075 χ^2 /NDF: 11760728.0/82

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1627.259+/-370.557 χ^2/NDF : 14.3/16

Left Out: 833.395+/-162.965 χ^2/NDF : 43.2/24

Right Out: -2549.542+/-388.432 χ^2/NDF : 44.2/17

Left In: -148.814+/-167.644 χ^2/NDF : 26.0/22

Left: 356.189+/-116.853 χ^2/NDF : 86.9/47

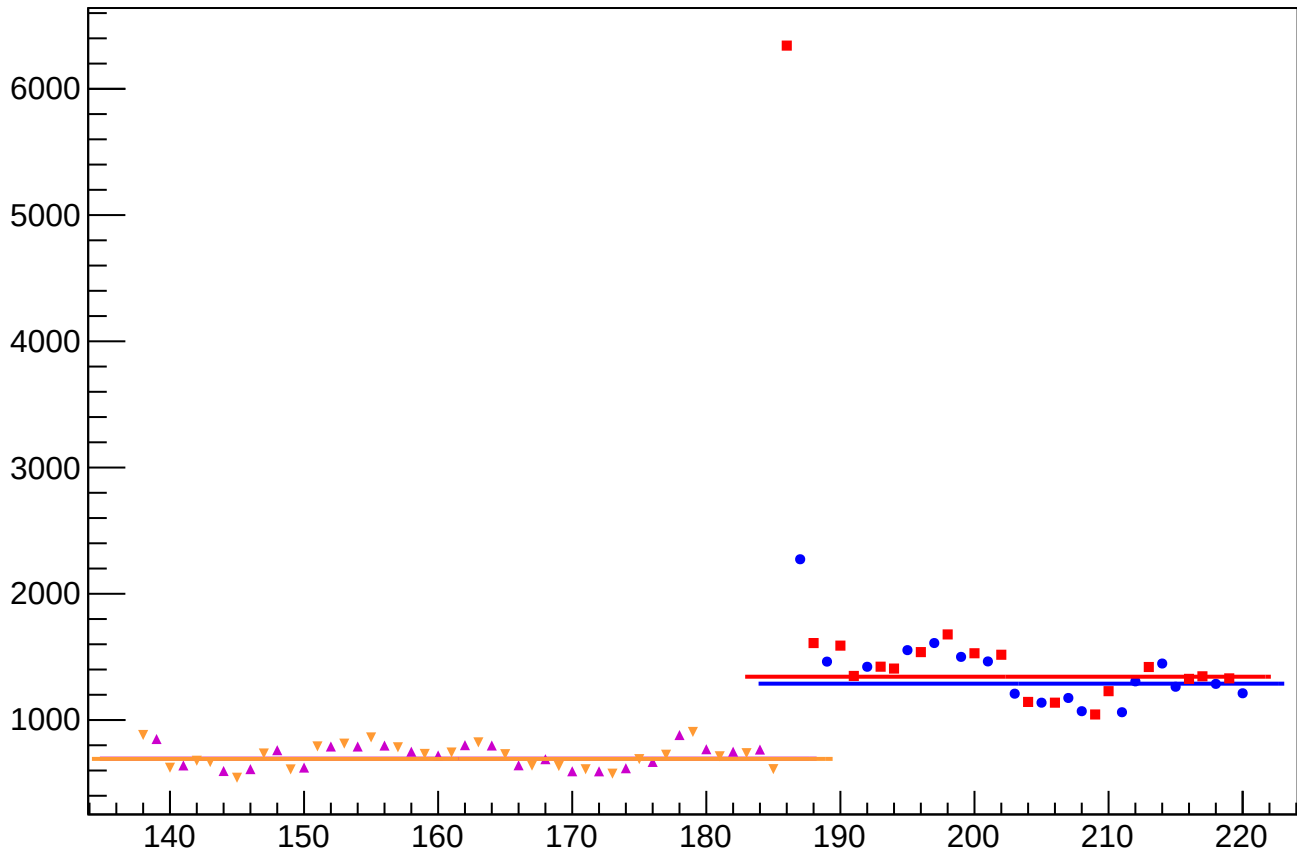
Right: -362.832+/-268.120 χ^2/NDF : 119.0/34

In: 152.942+/-152.740 χ^2/NDF : 59.4/39

Out: 327.059+/-150.275 χ^2/NDF : 151.9/42

All: 241.417+/-107.121 χ^2/NDF : 211.9/82

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1288.016 $\pm$ 0.262 χ^2 /NDF: 442259.9/16

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1343.055 $\pm$ 0.275 χ^2 /NDF: 896057.7/17

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

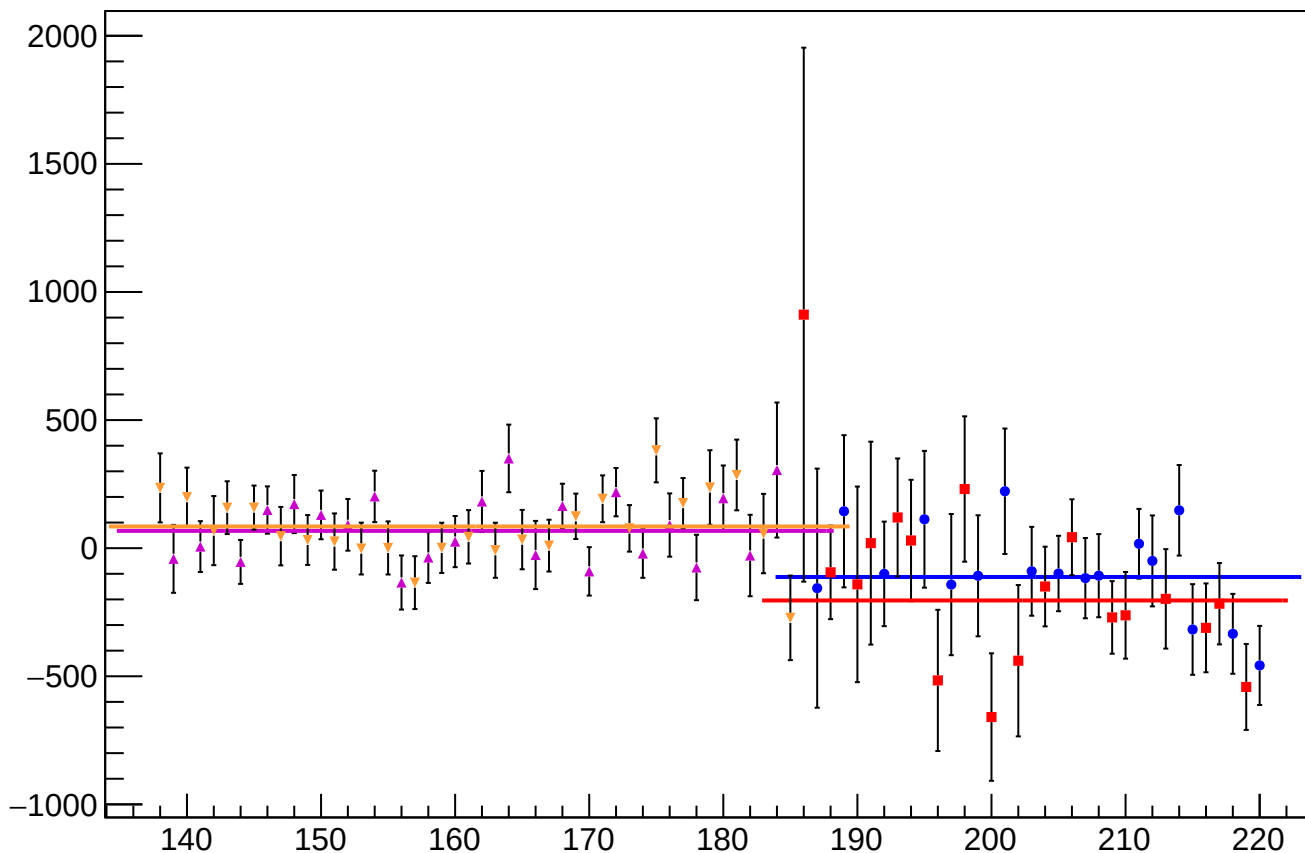
Right: 1314.240 $\pm$ 0.190 χ^2 /NDF: 1359340.9/34

In: 794.813 $\pm$ 0.108 χ^2 /NDF: 5232457.7/39

Out: 789.528 $\pm$ 0.106 χ^2 /NDF: 6329632.3/42

All: 792.128 $\pm$ 0.076 χ^2 /NDF: 11563306.8/82

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -112.504 ± 45.060 $\chi^2/\text{NDF}: 14.9/16$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -204.063 ± 47.632 $\chi^2/\text{NDF}: 20.1/17$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

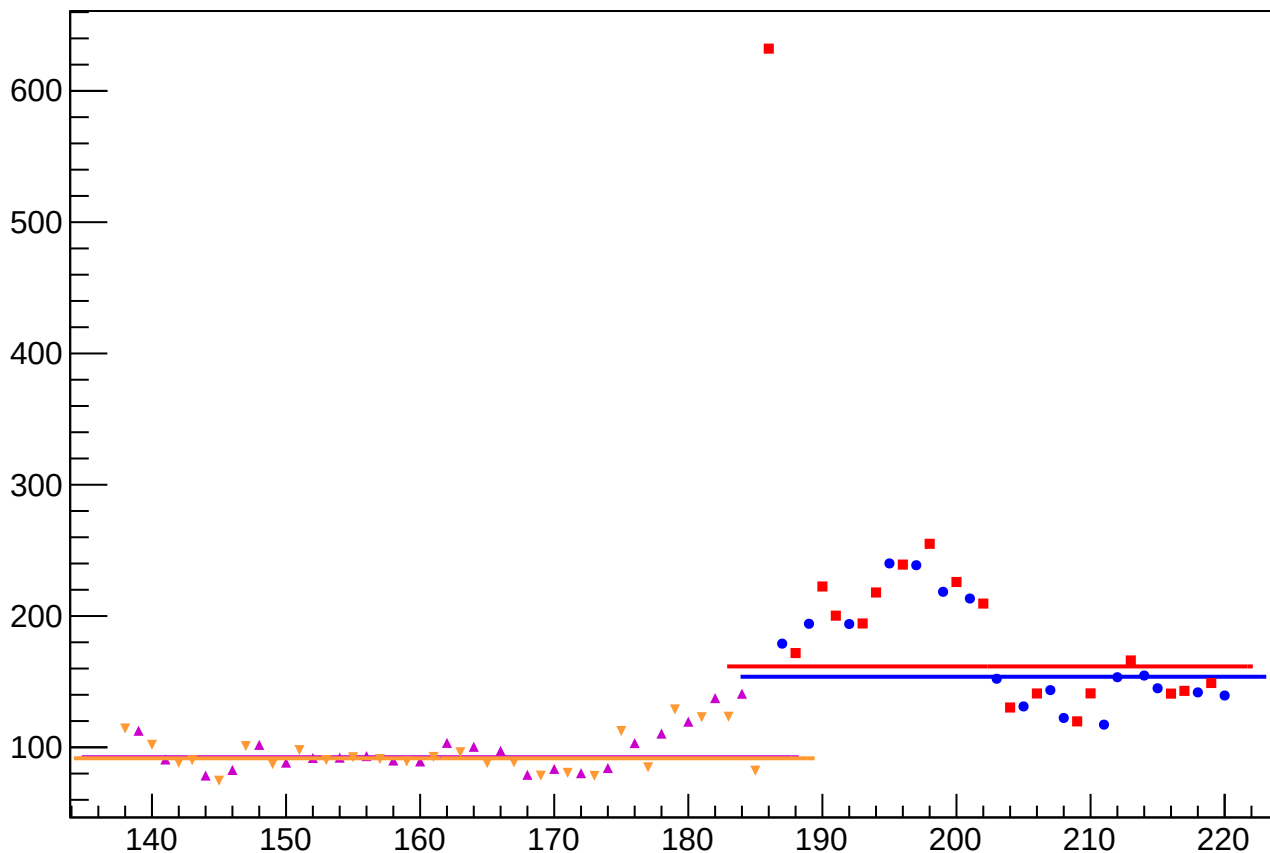
Right: -155.745 ± 32.733 $\chi^2/\text{NDF}: 37.0/34$

In: 31.747 ± 20.094 $\chi^2/\text{NDF}: 56.6/39$

Out: 35.416 ± 19.704 $\chi^2/\text{NDF}: 79.1/42$

All: 33.618 ± 14.069 $\chi^2/\text{NDF}: 135.7/82$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 153.751 $\pm$ 0.032 χ^2 /NDF: 1096143.0/16

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 161.607 $\pm$ 0.034 χ^2 /NDF: 1591226.8/17

Left In: 92.466 $\pm$ 0.016 χ^2 /NDF: 655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2 /NDF: 1350250.3/47

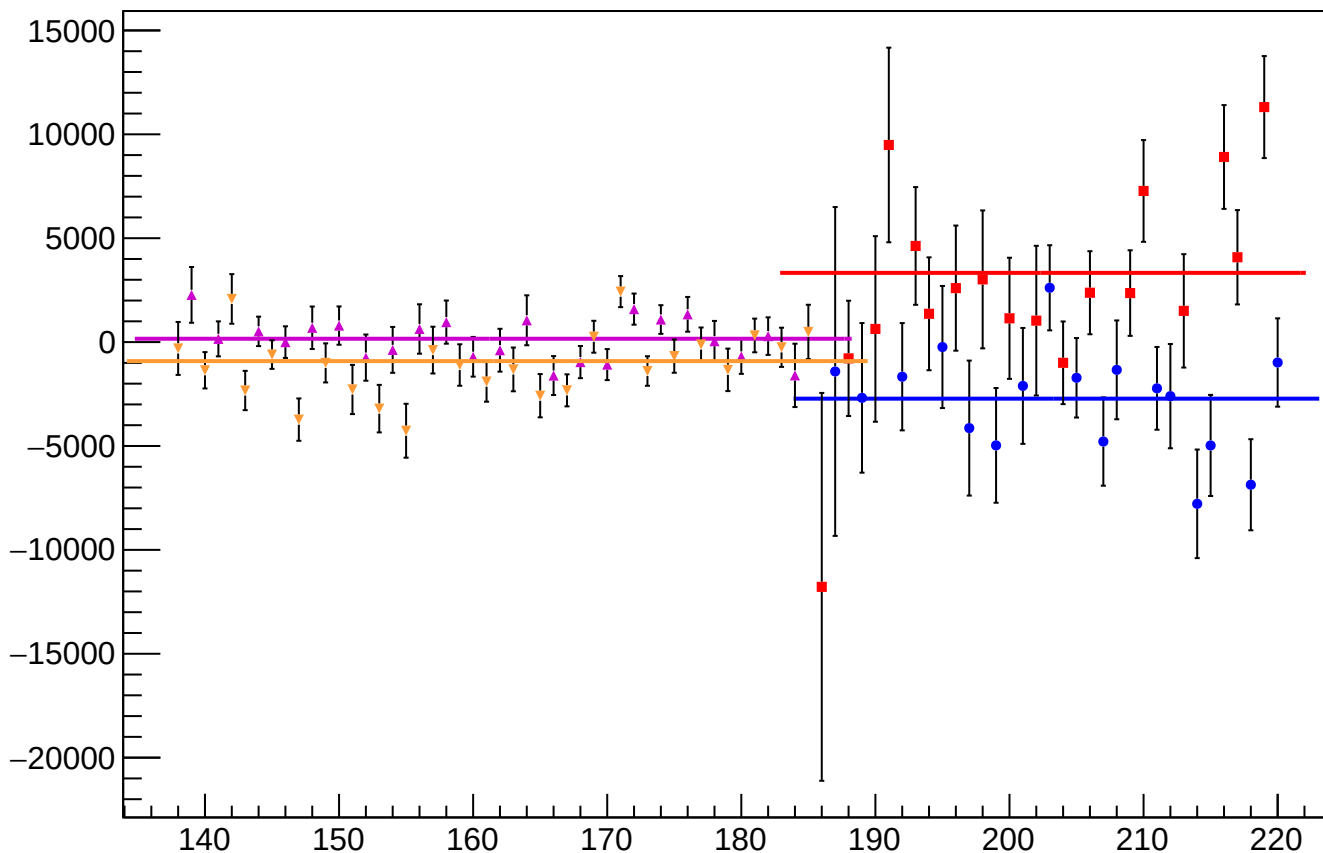
Right: 157.461 $\pm$ 0.023 χ^2 /NDF: 2716077.6/34

In: 104.653 $\pm$ 0.014 χ^2 /NDF: 4715823.4/39

Out: 103.607 $\pm$ 0.014 χ^2 /NDF: 5862013.2/42

All: 104.120 $\pm$ 0.010 χ^2 /NDF: 10580596.6/82

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2722.356 $\pm$ 599.850 χ^2 /NDF: 19.1/16

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 3332.538 $\pm$ 638.465 χ^2 /NDF: 32.6/17

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF:25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

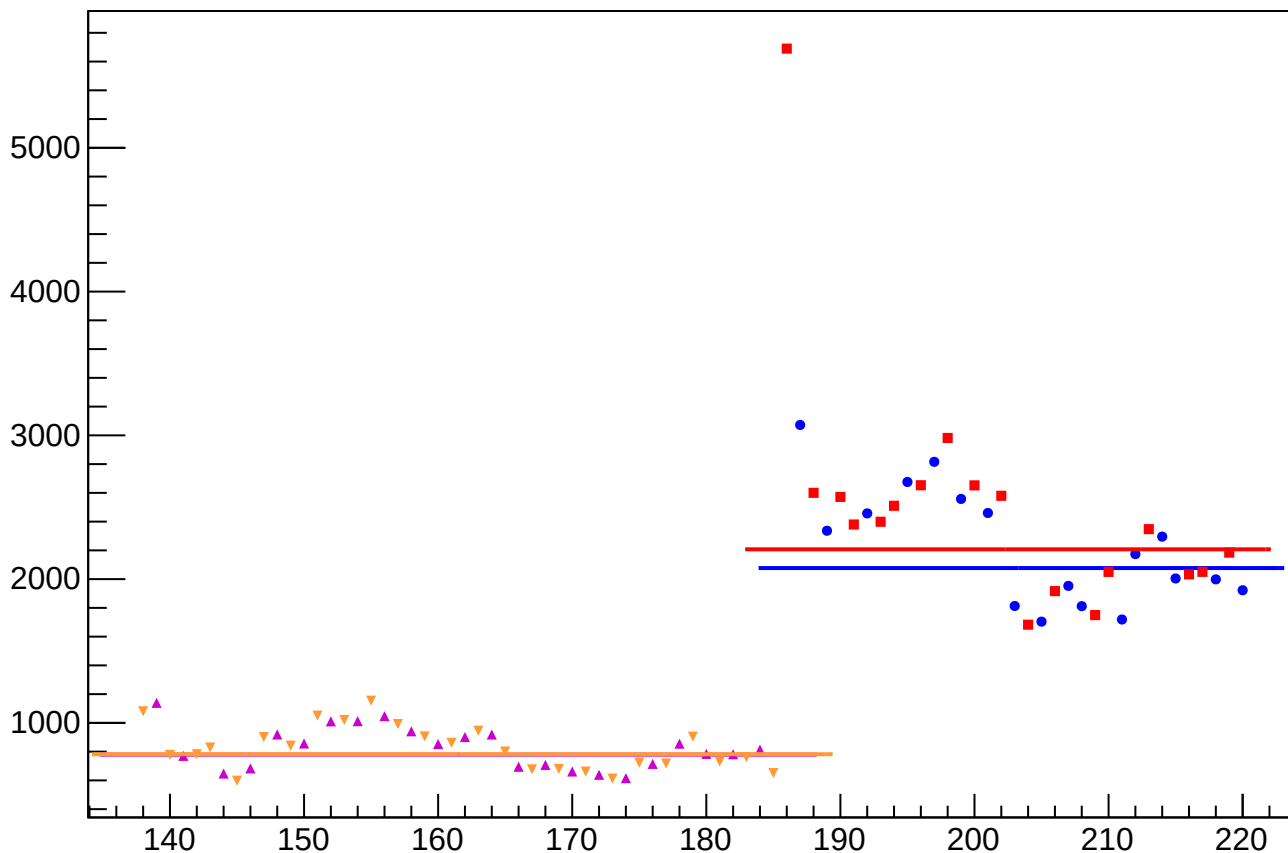
Right: 116.463 $\pm$ 437.172 χ^2 /NDF: 99.4/34

In: -100.555 $\pm$ 180.689 χ^2 /NDF:65.2/39

Out: -584.624 $\pm$ 177.993 χ^2 /NDF:137.6/42

All: -346.228 $\pm$ 126.803 χ^2 /NDF: 206.4/82

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2076.976 $\pm$ 0.424 χ^2 /NDF: 607596.7/16

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2207.331 $\pm$ 0.451 χ^2 /NDF: 902161.2/17

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

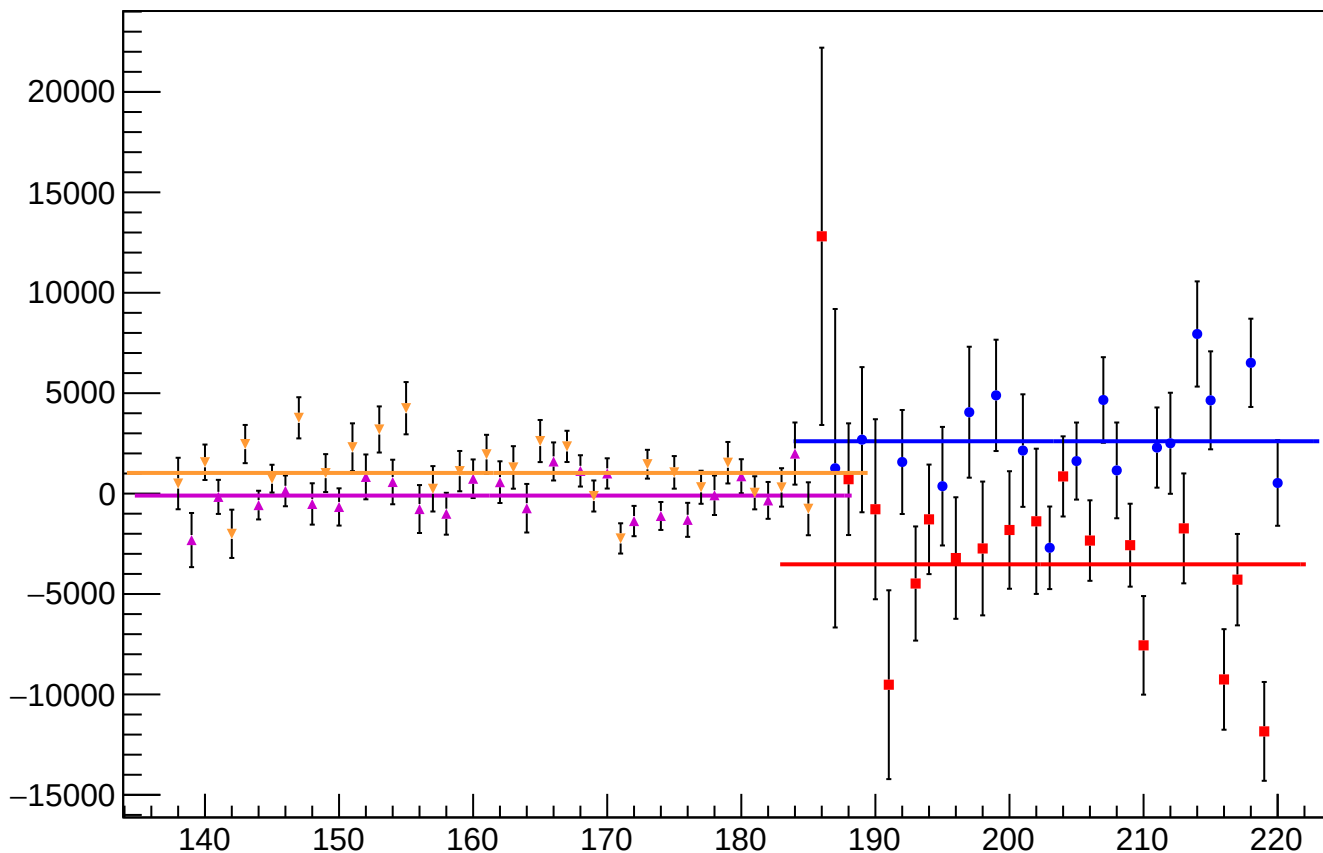
Right: 2138.093 $\pm$ 0.309 χ^2 /NDF: 1554040.3/34

In: 896.768 $\pm$ 0.128 χ^2 /NDF: 10102578.9/39

Out: 892.815 $\pm$ 0.126 χ^2 /NDF: 11225458.8/42

All: 894.762 $\pm$ 0.090 χ^2 /NDF: 21328523.7/82

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2606.200+/-601.683 χ^2/NDF : 18.9/16

Left Out: 1028.864+/-186.810 χ^2/NDF : 60.2/24

Right Out: -3521.611+/-640.416 χ^2/NDF : 34.2/17

Left In: -98.691+/-191.027 χ^2/NDF : 25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

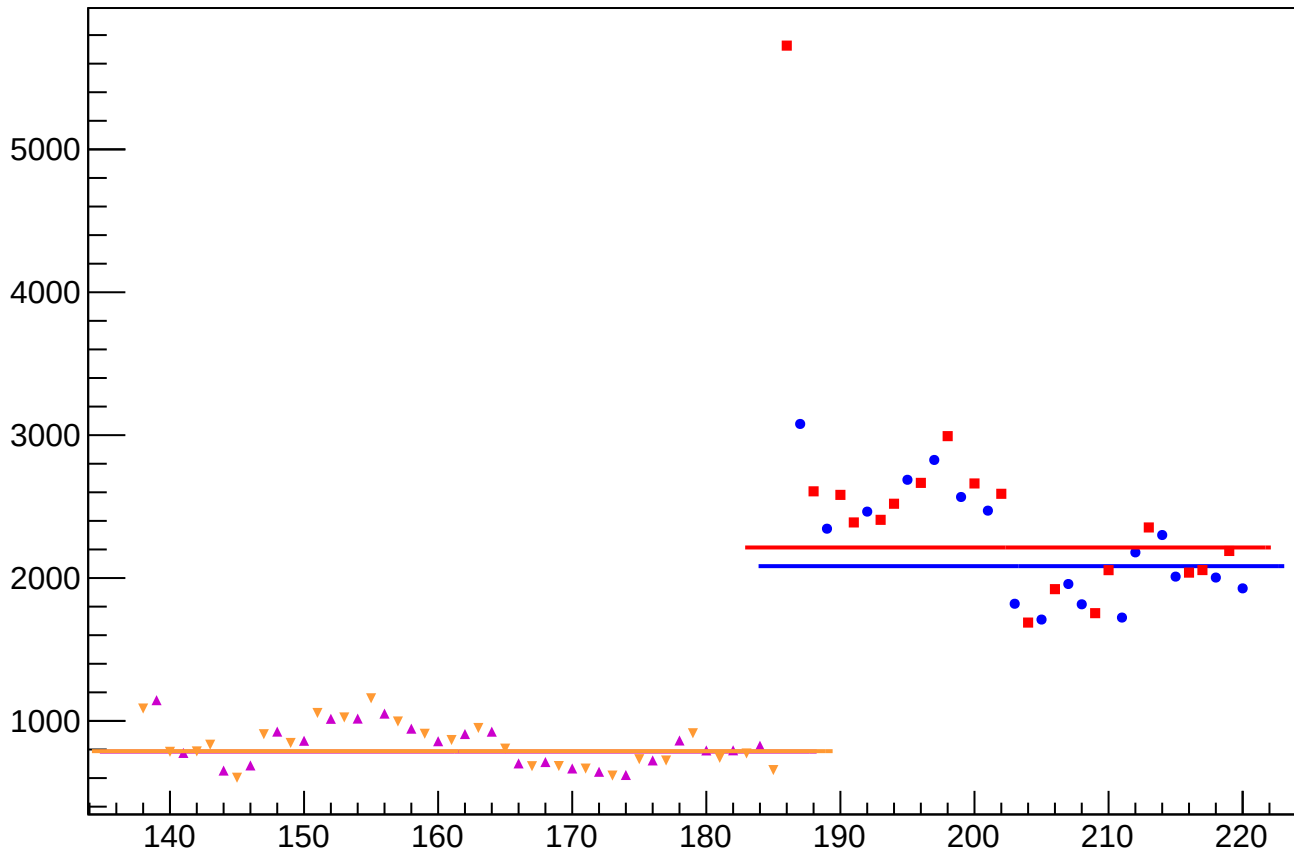
Right: -266.805+/-438.508 χ^2/NDF : 101.7/34

In: 148.992+/-182.071 χ^2/NDF : 62.6/39

Out: 672.028+/-179.336 χ^2/NDF : 140.9/42

All: 414.468+/-127.766 χ^2/NDF : 207.7/82

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2083.209 $\pm$ 0.425 χ^2 /NDF: 610185.1/16

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2213.892 $\pm$ 0.453 χ^2 /NDF: 906331.4/17

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

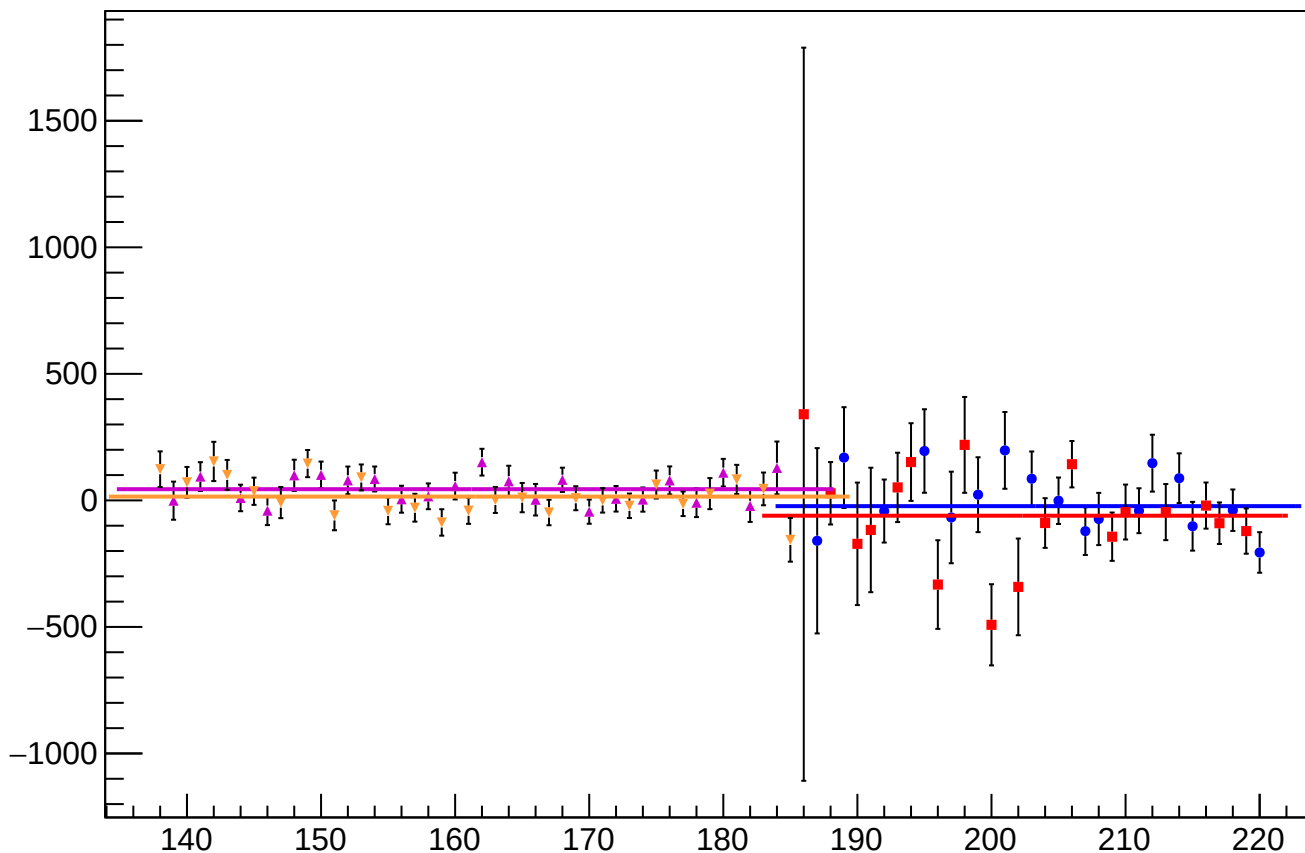
Right: 2144.479 $\pm$ 0.310 χ^2 /NDF: 1560751.3/34

In: 904.320 $\pm$ 0.129 χ^2 /NDF: 10027296.0/39

Out: 900.222 $\pm$ 0.127 χ^2 /NDF: 11151617.3/42

All: 902.240 $\pm$ 0.090 χ^2 /NDF: 21179427.7/82

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -22.724 ± 26.849 χ^2/NDF : 17.0/16

Left Out: 15.099 ± 11.154 χ^2/NDF : 34.2/24

Right Out: -60.531 ± 28.690 χ^2/NDF : 24.0/17

Left In: 44.297 ± 11.530 χ^2/NDF : 22.3/22

Left: 29.215 ± 8.017 χ^2/NDF : 59.8/47

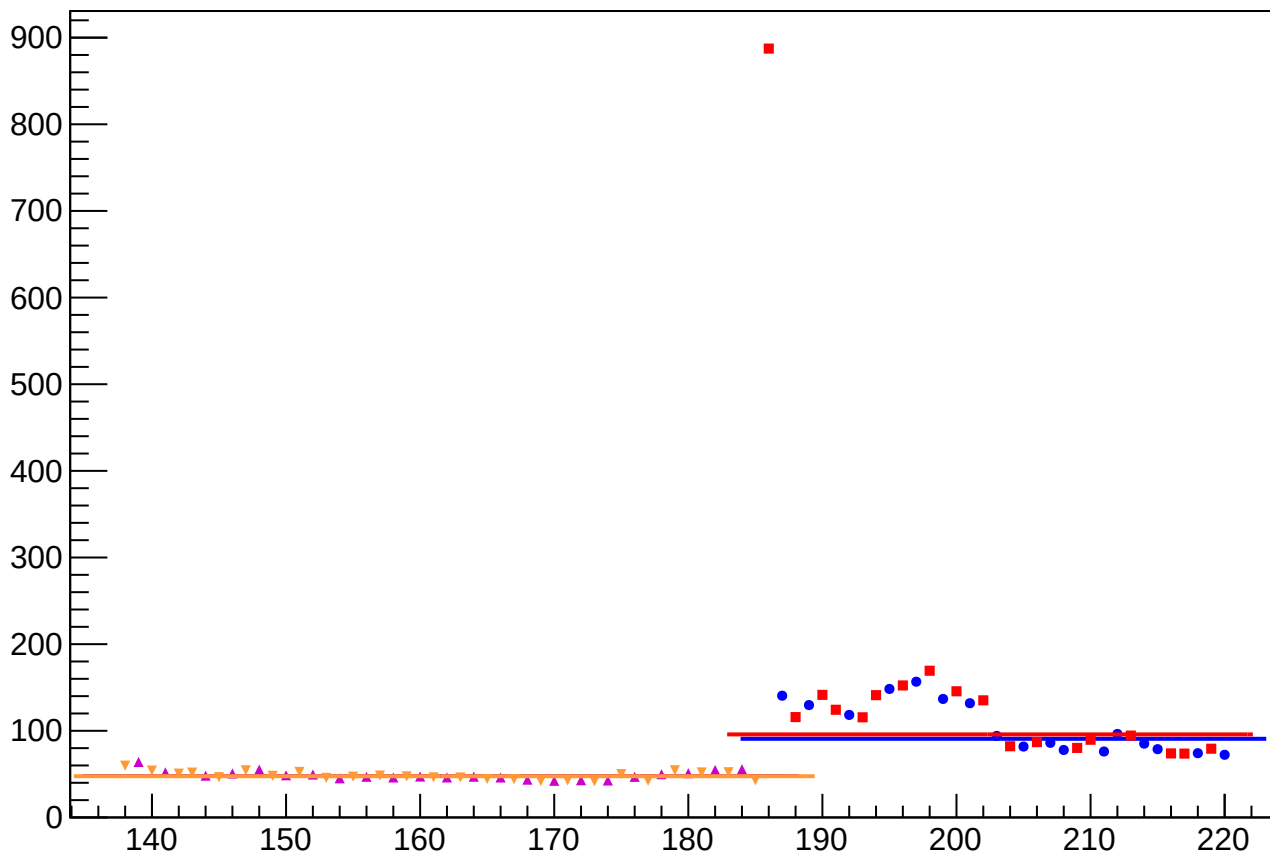
Right: -40.376 ± 19.604 χ^2/NDF : 42.0/34

In: 33.862 ± 10.594 χ^2/NDF : 44.6/39

Out: 5.168 ± 10.396 χ^2/NDF : 64.2/42

All: 19.245 ± 7.420 χ^2/NDF : 112.6/82

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 90.779+/-0.019 χ^2/NDF : 1402047.5/16

Left Out: 47.586+/-0.008 χ^2/NDF : 312874.8/24

Right Out: 95.847+/-0.020 χ^2/NDF : 2198049.1/17

Left In: 47.846+/-0.008 χ^2/NDF : 281790.1/22

Left: 47.712+/-0.006 χ^2/NDF : 595189.7/47

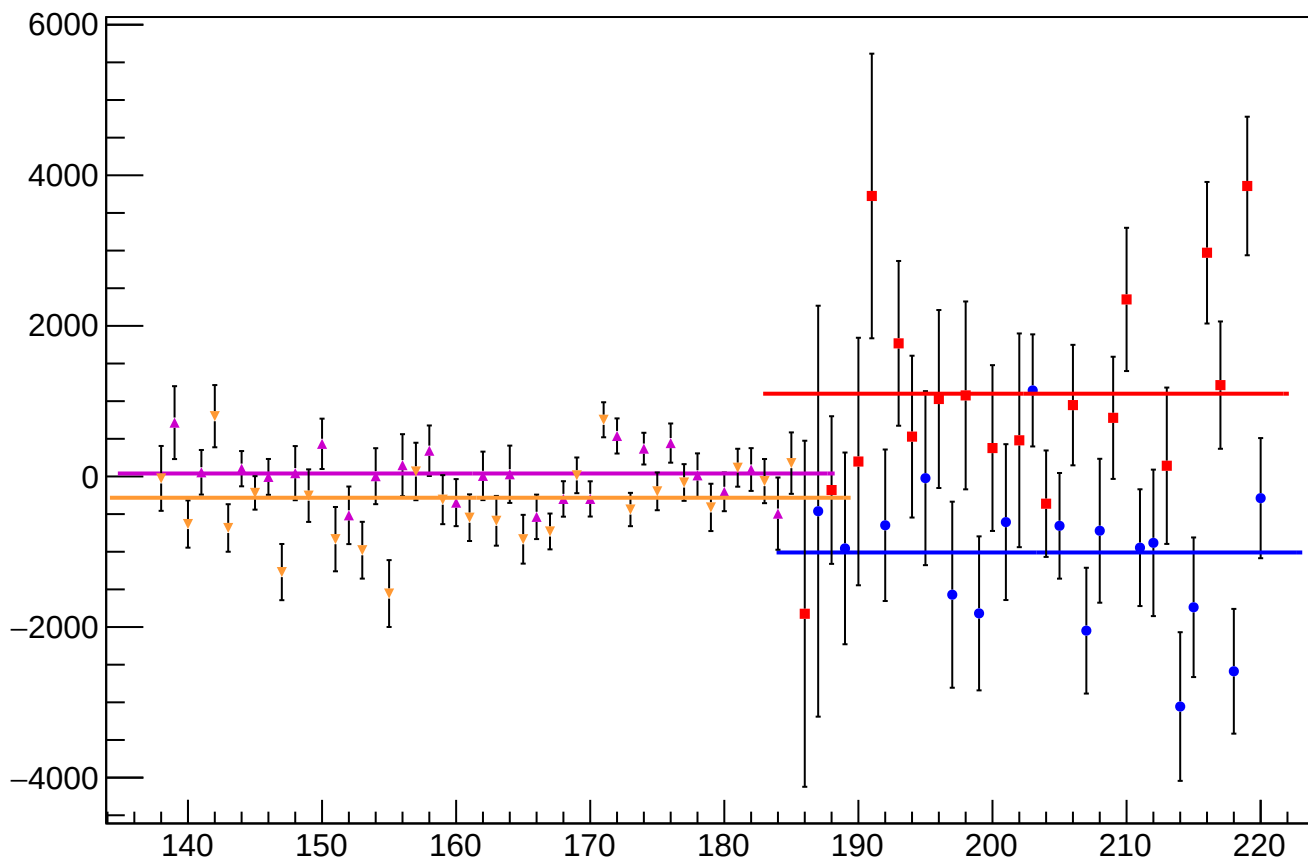
Right: 93.145+/-0.014 χ^2/NDF : 3633373.7/34

In: 54.530+/-0.007 χ^2/NDF : 6001438.8/39

Out: 53.923+/-0.007 χ^2/NDF : 7427077.1/42

All: 54.221+/-0.005 χ^2/NDF : 13431863.1/82

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1009.654 ± 227.442 $\chi^2/\text{NDF}: 21.5/16$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 1099.211 ± 241.932 $\chi^2/\text{NDF}: 26.8/17$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

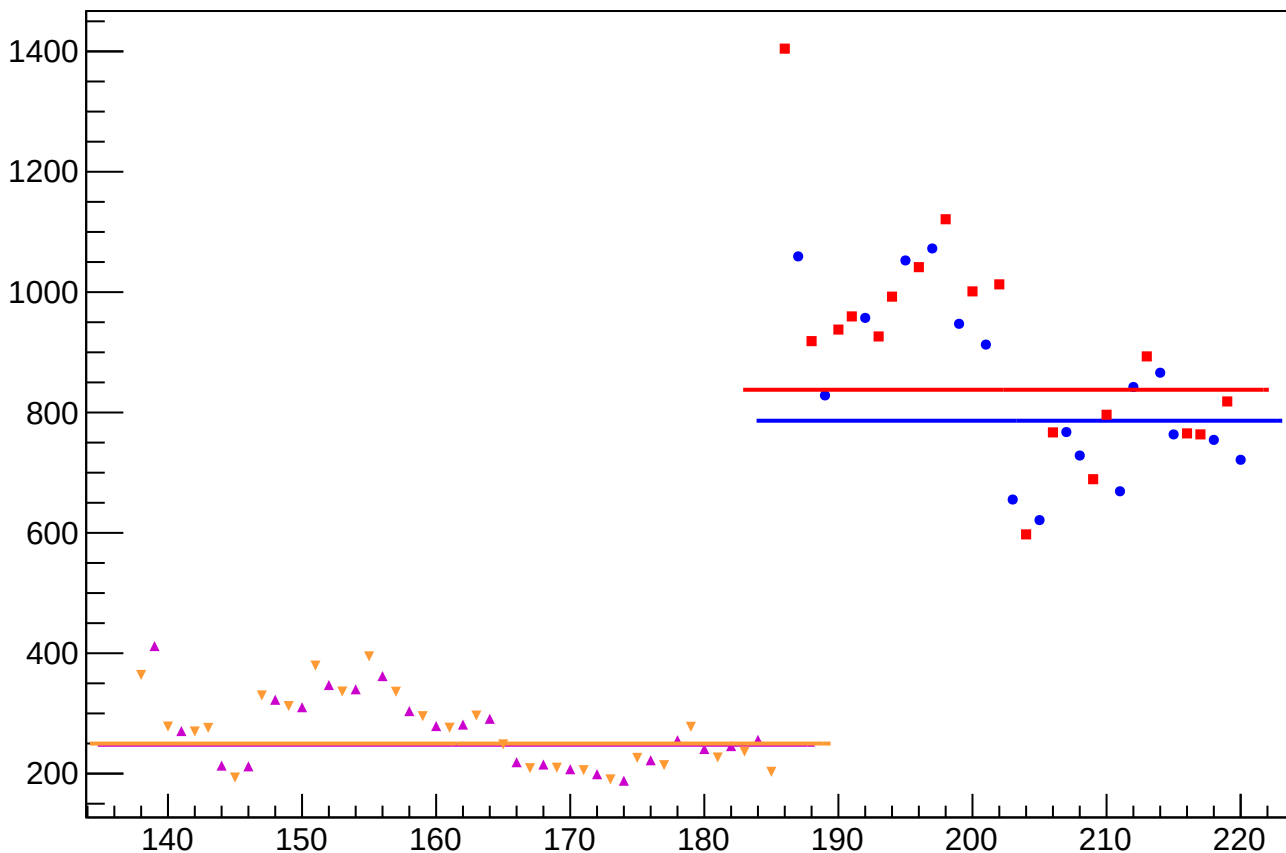
Right: -20.265 ± 165.712 $\chi^2/\text{NDF}: 88.7/34$

In: -30.448 ± 58.700 $\chi^2/\text{NDF}: 68.9/39$

Out: -203.501 ± 57.952 $\chi^2/\text{NDF}: 124.1/42$

All: -118.084 ± 41.240 $\chi^2/\text{NDF}: 197.4/82$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 786.340 $\pm$ 0.161 χ^2 /NDF: 636577.4/16

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 837.781 $\pm$ 0.171 χ^2 /NDF: 794013.0/17

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

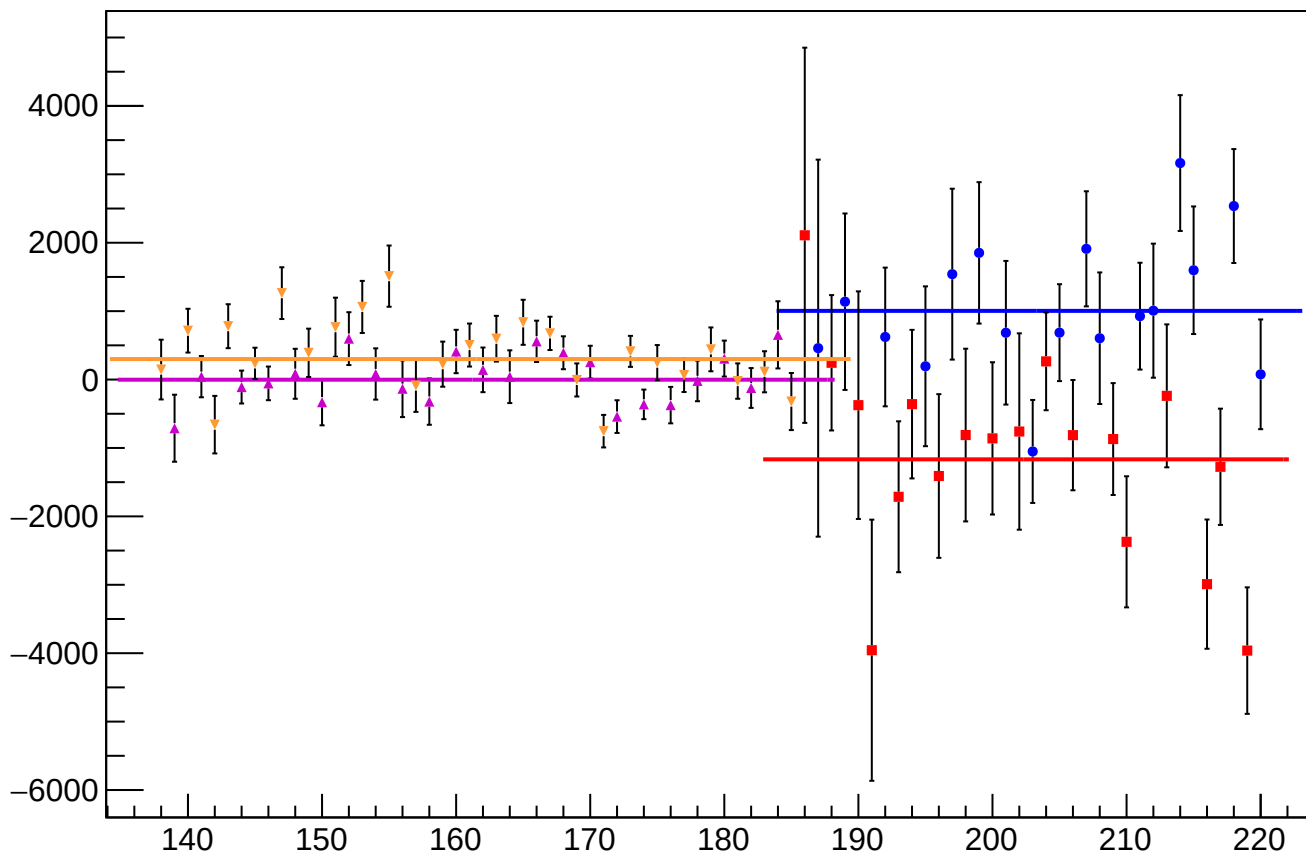
Right: 810.474 $\pm$ 0.117 χ^2 /NDF: 1478589.2/34

In: 283.781 $\pm$ 0.042 χ^2 /NDF:12509086.0/39

Out: 283.685 $\pm$ 0.041 χ^2 /NDF:13537719.6/42

All: 283.733 $\pm$ 0.029 χ^2 /NDF: 26046808.3/82

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1003.998 $\pm$ 229.296 χ^2 /NDF: 20.5/16

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -1166.350 $\pm$ 244.294 χ^2 /NDF: 26.5/17

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

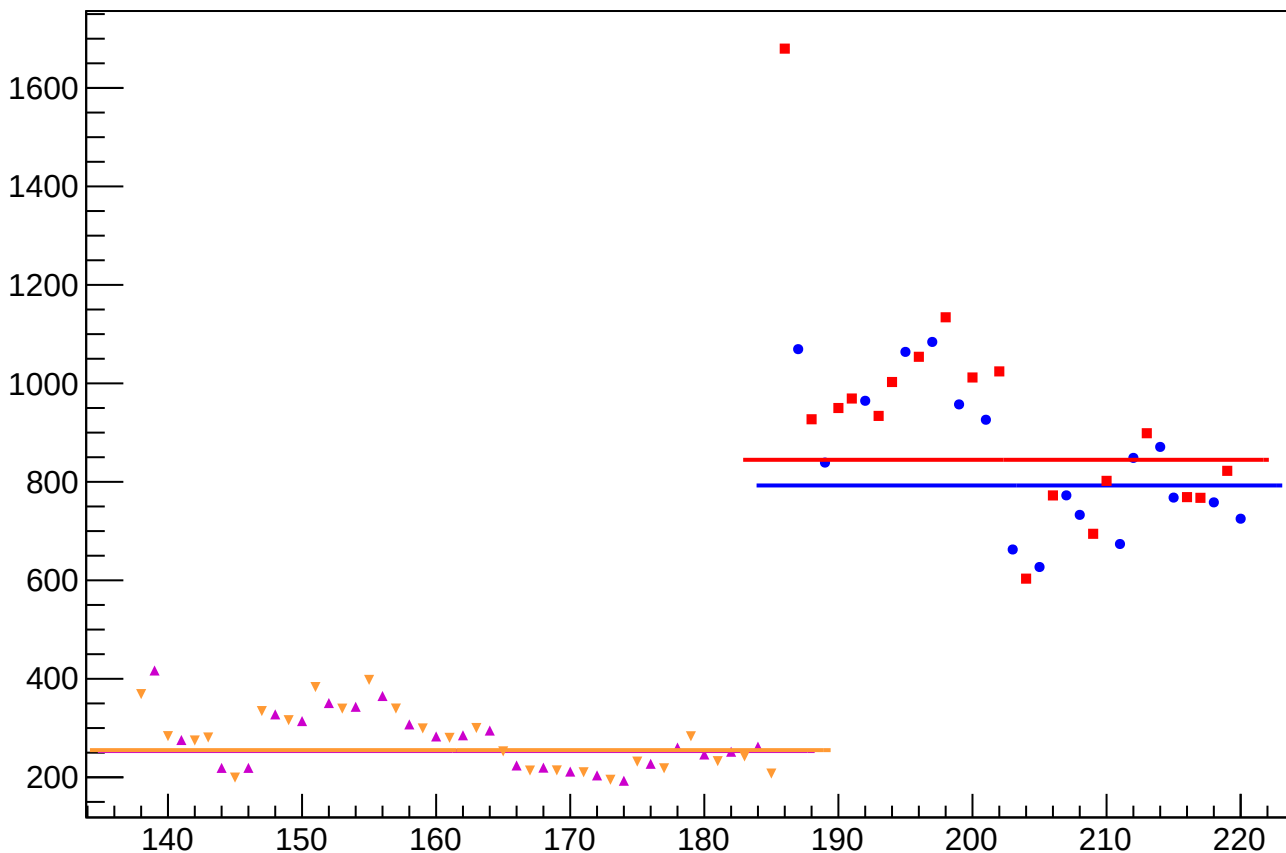
Right: -12.513 $\pm$ 167.187 χ^2 /NDF: 89.0/34

In: 66.377 $\pm$ 59.855 χ^2 /NDF:67.6/39

Out: 213.899 $\pm$ 59.055 χ^2 /NDF:122.9/42

All: 141.131 $\pm$ 42.038 χ^2 /NDF: 193.6/82

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 792.655+/-0.162 χ^2/NDF : 642360.8/16

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 844.769+/-0.173 χ^2/NDF : 865991.5/17

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

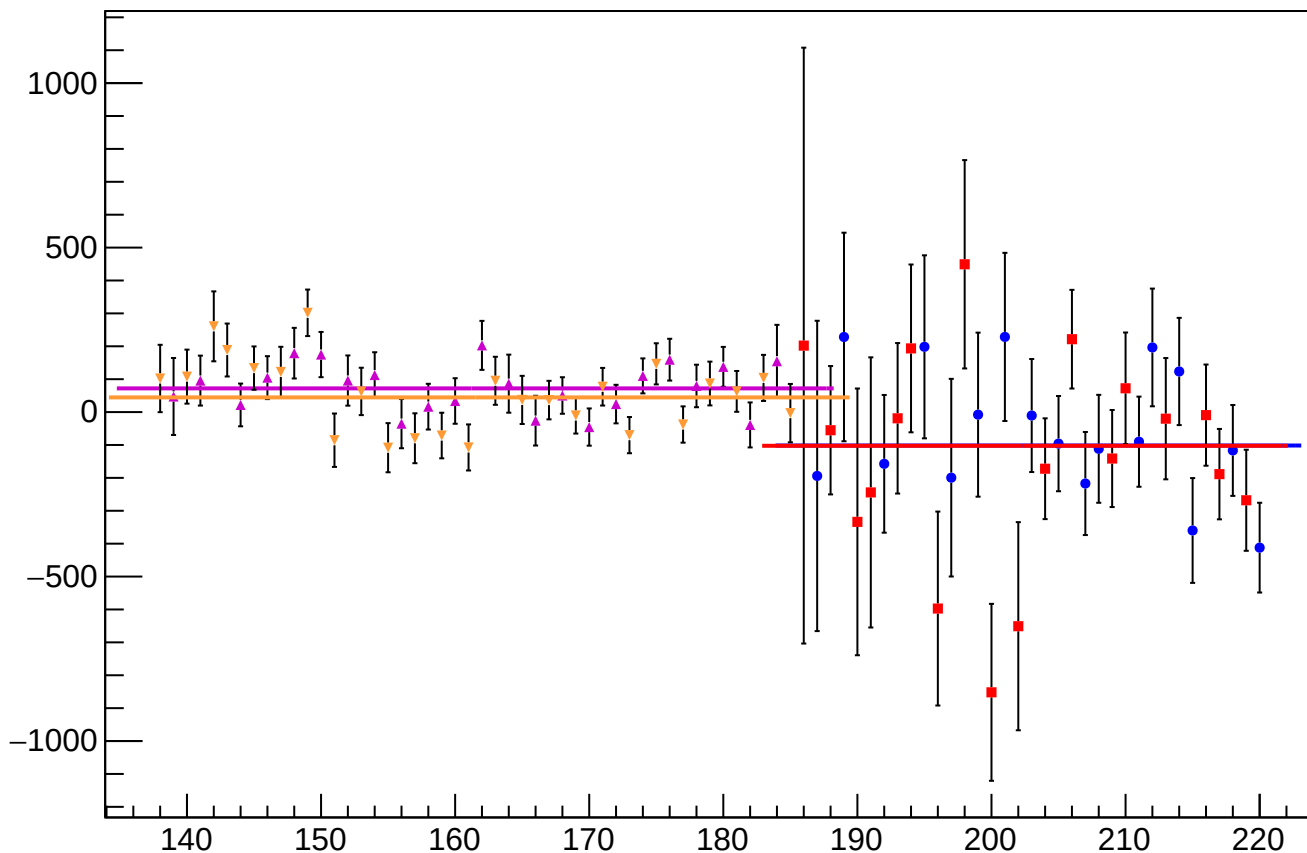
Right: 817.064+/-0.118 χ^2/NDF : 1556739.3/34

In: 290.040+/-0.042 χ^2/NDF : 12296392.7/39

Out: 289.591+/-0.042 χ^2/NDF : 13378382.2/42

All: 289.813+/-0.030 χ^2/NDF : 25674831.9/82

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -101.630 ± 43.859 χ^2/NDF : 17.6/16

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -102.459 ± 46.927 χ^2/NDF : 26.8/17

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

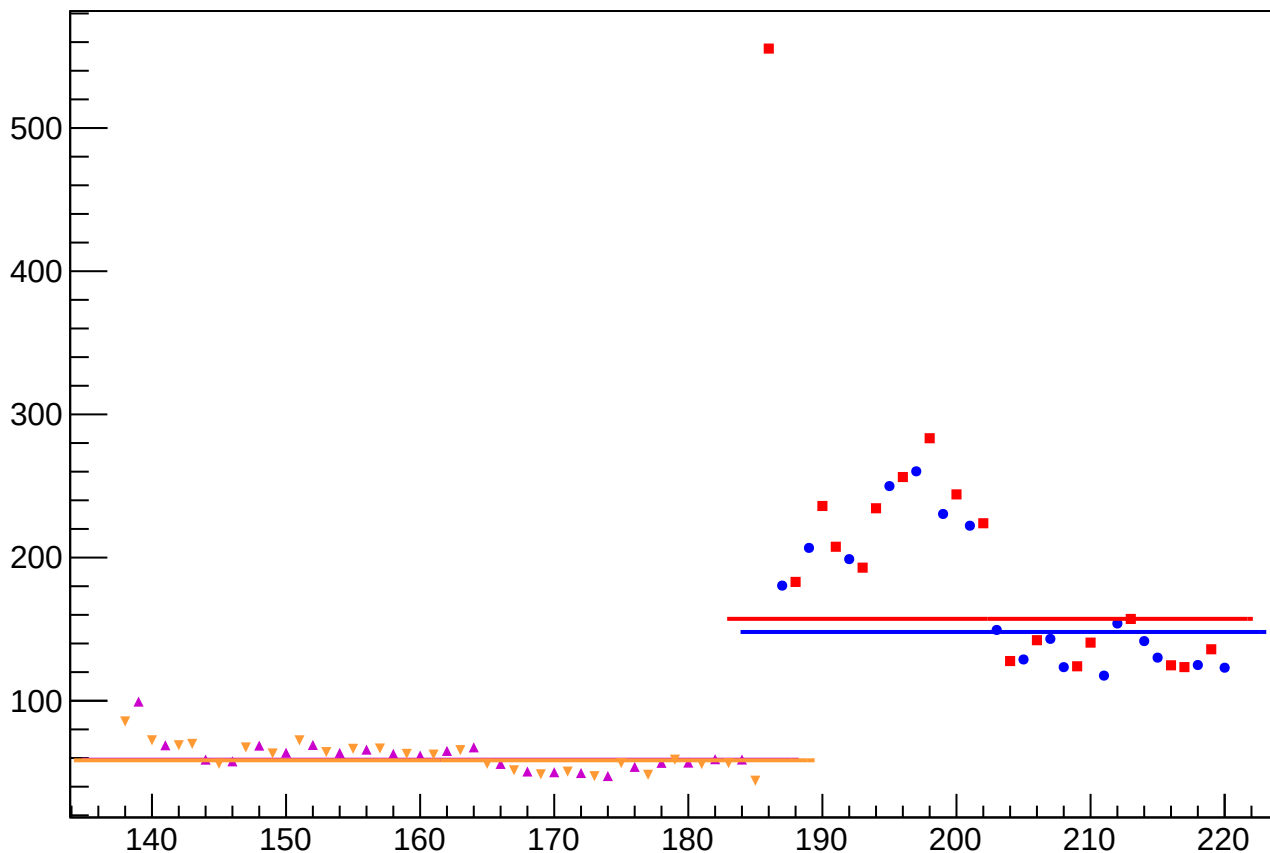
Right: -102.016 ± 32.043 χ^2/NDF : 44.5/34

In: 55.357 ± 13.592 χ^2/NDF : 57.1/39

Out: 32.858 ± 13.261 χ^2/NDF : 89.8/42

All: 43.830 ± 9.492 χ^2/NDF : 148.3/82

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 148.048 $\pm$ 0.031 χ^2 /NDF: 1464836.8/16

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 157.219 $\pm$ 0.033 χ^2 /NDF: 2062121.8/17

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

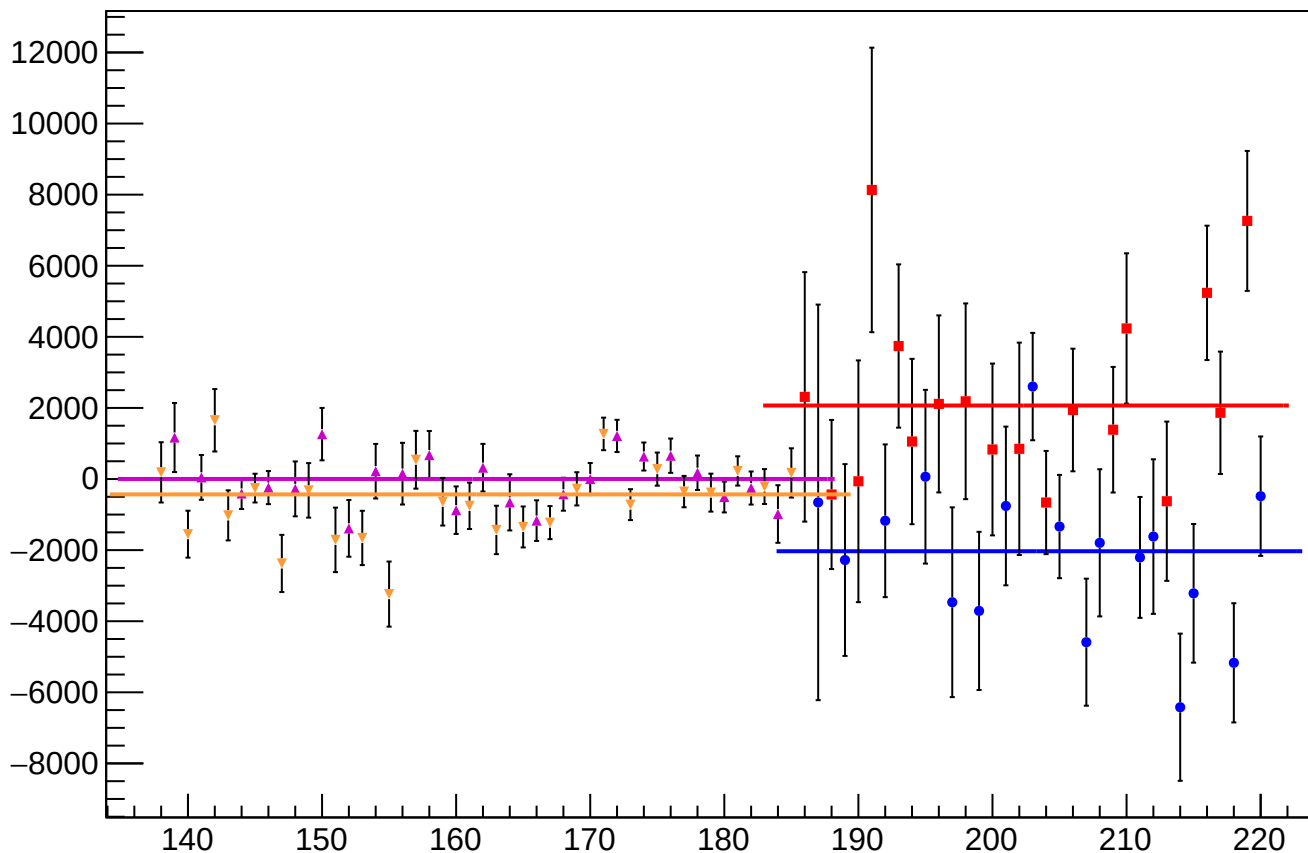
Right: 152.324 $\pm$ 0.023 χ^2 /NDF: 3567729.4/34

In: 67.408 $\pm$ 0.010 χ^2 /NDF: 9624205.5/39

Out: 66.312 $\pm$ 0.009 χ^2 /NDF: 11009121.1/42

All: 66.846 $\pm$ 0.007 χ^2 /NDF: 20639985.4/82

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2031.329 $\pm$ 481.167 χ^2 /NDF: 23.1/16

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 2068.251 $\pm$ 510.462 χ^2 /NDF: 21.2/17

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

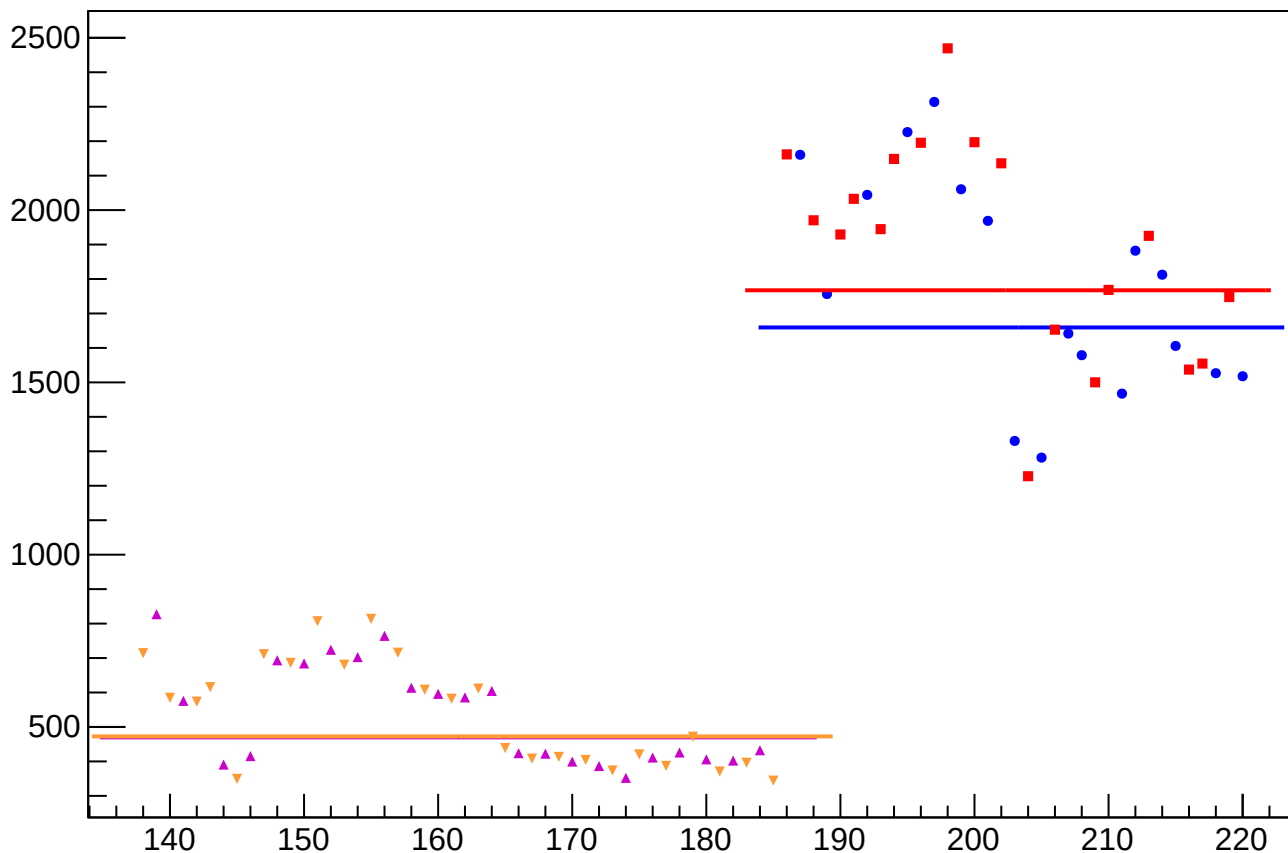
Right: -102.543 $\pm$ 350.135 χ^2 /NDF: 78.5/34

In: -110.687 $\pm$ 113.191 χ^2 /NDF:72.3/39

Out: -312.727 $\pm$ 111.638 χ^2 /NDF:103.5/42

All: -213.102 $\pm$ 79.483 χ^2 /NDF: 177.4/82

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1659.423+/-0.340 χ^2/NDF : 733375.2/16

Left Out: 472.569+/-0.081 χ^2/NDF :2508168.9/24

Right Out: 1767.267+/-0.361 χ^2/NDF : 807117.2/17

Left In: 469.761+/-0.082 χ^2/NDF :2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

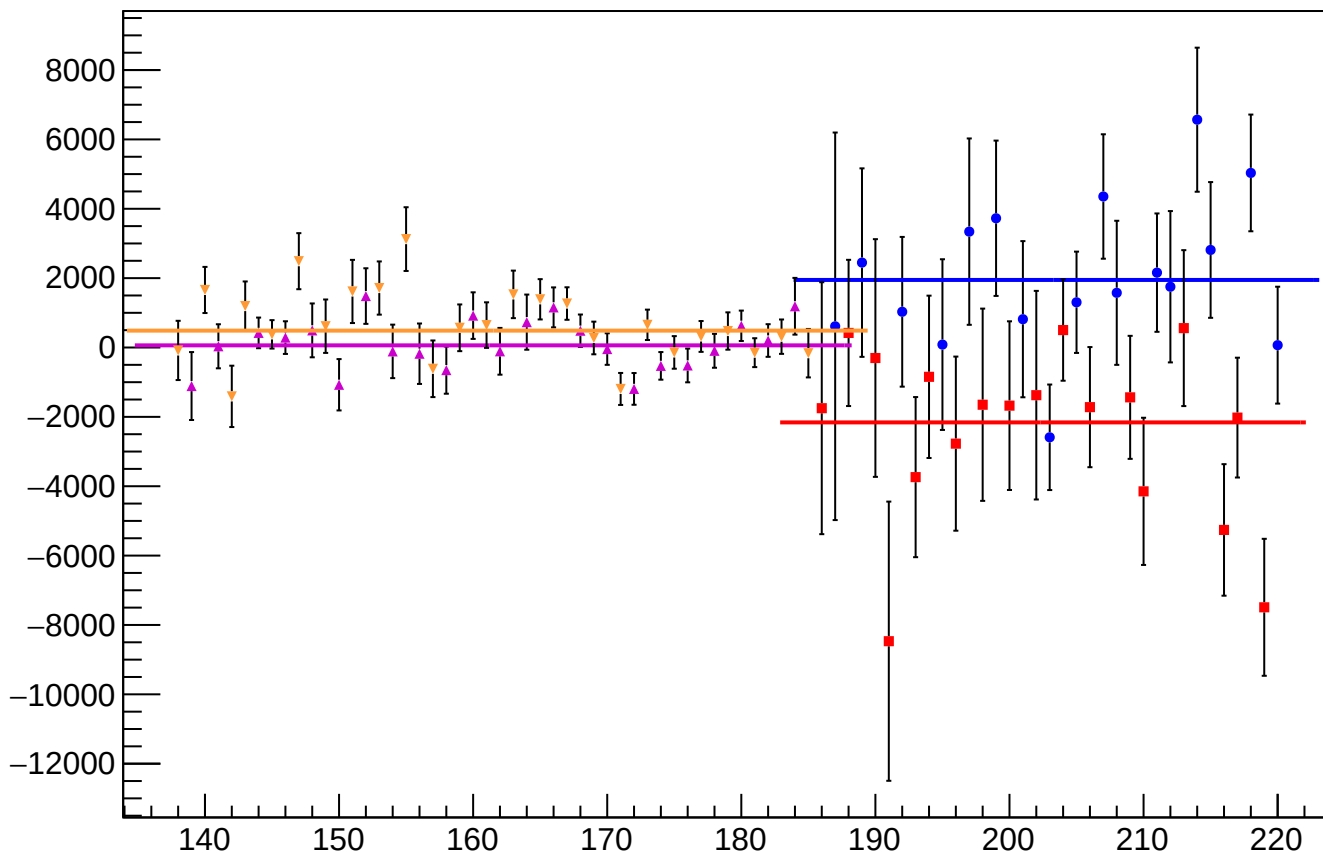
Right: 1710.162+/-0.248 χ^2/NDF : 1587761.2/34

In: 535.596+/-0.080 χ^2/NDF :14399702.8/39

Out: 534.494+/-0.079 χ^2/NDF :15565813.9/42

All: 535.037+/-0.056 χ^2/NDF : 29965612.6/82

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1947.837 $\pm$ 483.504 χ^2 /NDF: 22.7/16

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -2159.608 $\pm$ 513.232 χ^2 /NDF: 21.1/17

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

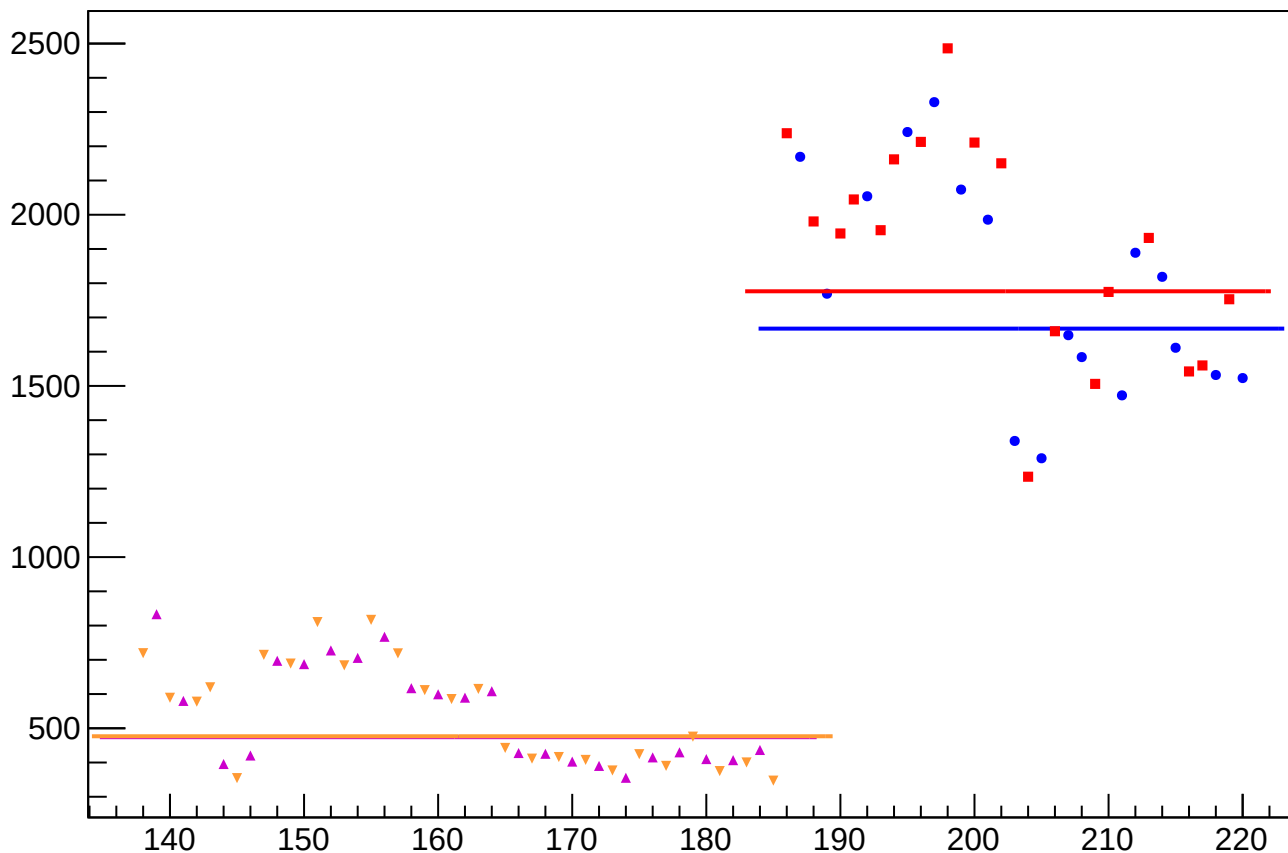
Right: 16.511 $\pm$ 351.929 χ^2 /NDF: 77.7/34

In: 166.863 $\pm$ 114.130 χ^2 /NDF:68.2/39

Out: 359.409 $\pm$ 112.539 χ^2 /NDF:102.4/42

All: 264.488 $\pm$ 80.134 χ^2 /NDF: 172.1/82

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1667.371 $\pm$ 0.342 χ^2 /NDF: 736517.1/16

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1776.420 $\pm$ 0.363 χ^2 /NDF: 819802.9/17

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

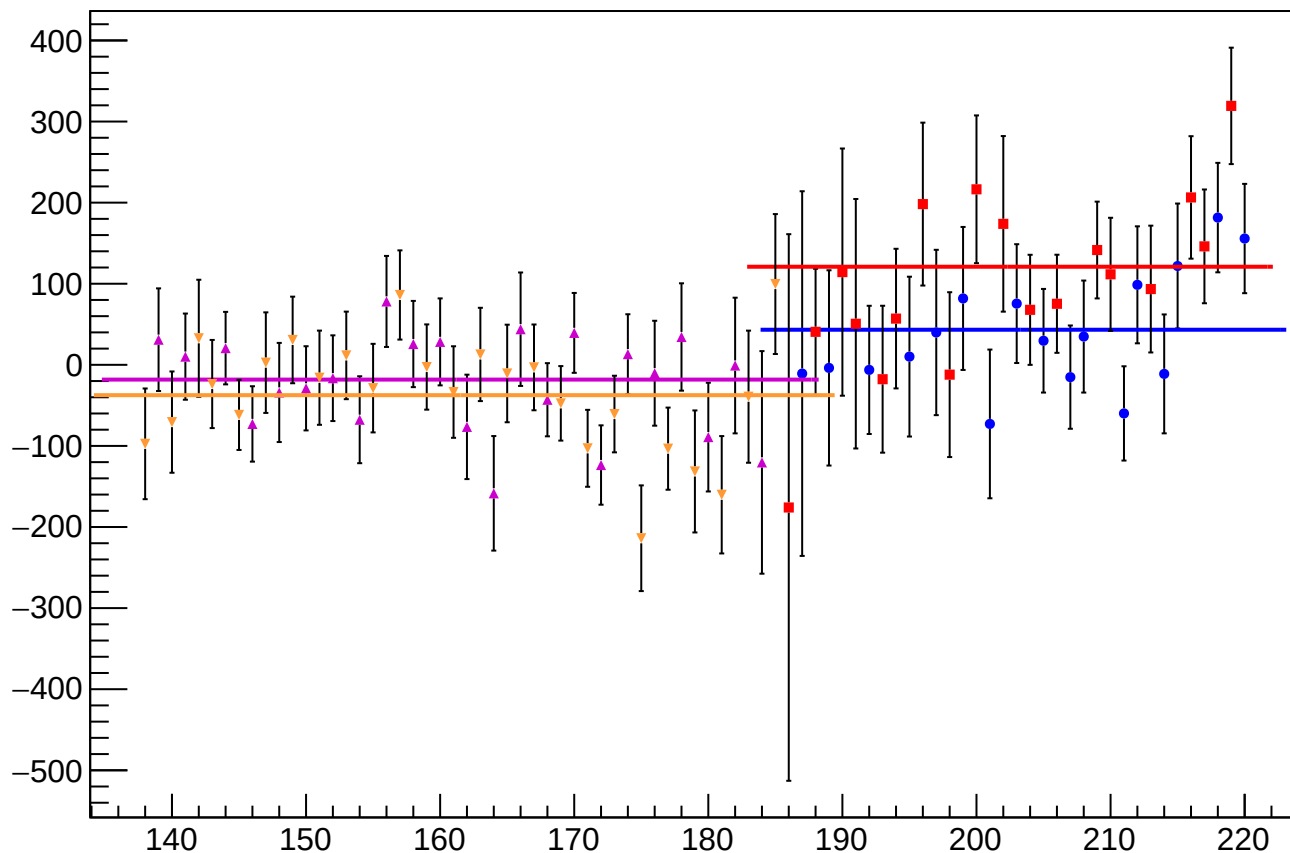
Right: 1718.646 $\pm$ 0.249 χ^2 /NDF: 1604155.7/34

In: 540.477 $\pm$ 0.081 χ^2 /NDF: 14328839.4/39

Out: 539.183 $\pm$ 0.080 χ^2 /NDF: 15502341.6/42

All: 539.821 $\pm$ 0.057 χ^2 /NDF: 29831311.4/82

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 43.271+/-18.682 χ^2/NDF : 15.9/16

Left Out: -37.413+/-11.390 χ^2/NDF : 30.5/24

Right Out: 120.968+/-19.495 χ^2/NDF : 19.1/17

Left In: -18.210+/-11.788 χ^2/NDF : 23.0/22

Left: -28.141+/-8.191 χ^2/NDF : 54.8/47

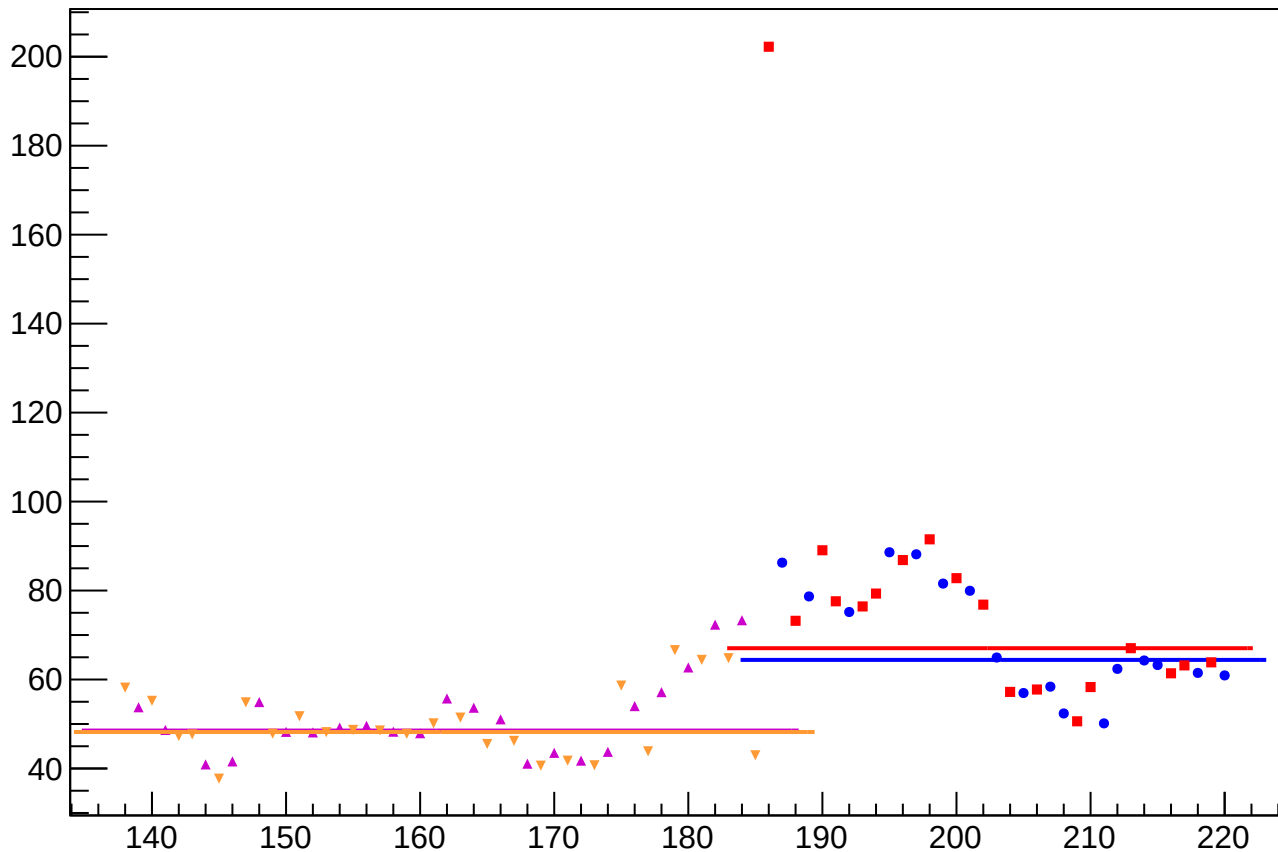
Right: 80.465+/-13.488 χ^2/NDF : 43.3/34

In: -0.703+/-9.969 χ^2/NDF : 46.7/39

Out: 2.892+/-9.834 χ^2/NDF : 98.8/42

All: 1.119+/-7.001 χ^2/NDF : 145.5/82

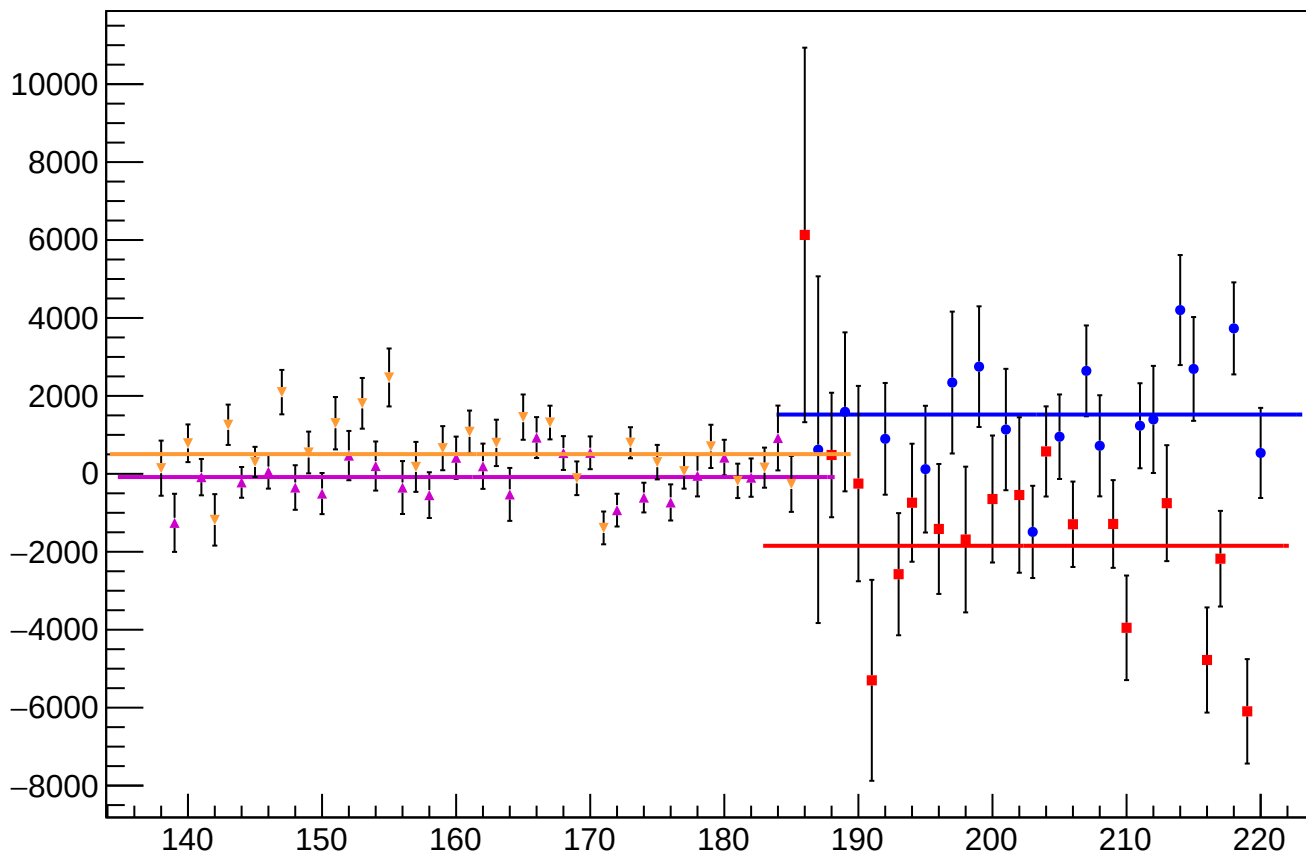
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.411 $\pm$ 0.013 χ^2 /NDF: 683743.2/16
 Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24
 Right Out: 67.038 $\pm$ 0.014 χ^2 /NDF: 1010830.6/17
 Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47
 Right: 65.669 $\pm$ 0.010 χ^2 /NDF: 1713512.1/34
 In: 53.050 $\pm$ 0.007 χ^2 /NDF: 2393221.6/39
 Out: 52.994 $\pm$ 0.007 χ^2 /NDF: 3153410.9/42
 All: 53.021 $\pm$ 0.005 χ^2 /NDF: 5546664.8/82

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1521.367+/-331.860 χ^2/NDF : 18.6/16

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1846.423+/-353.359 χ^2/NDF : 31.6/17

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

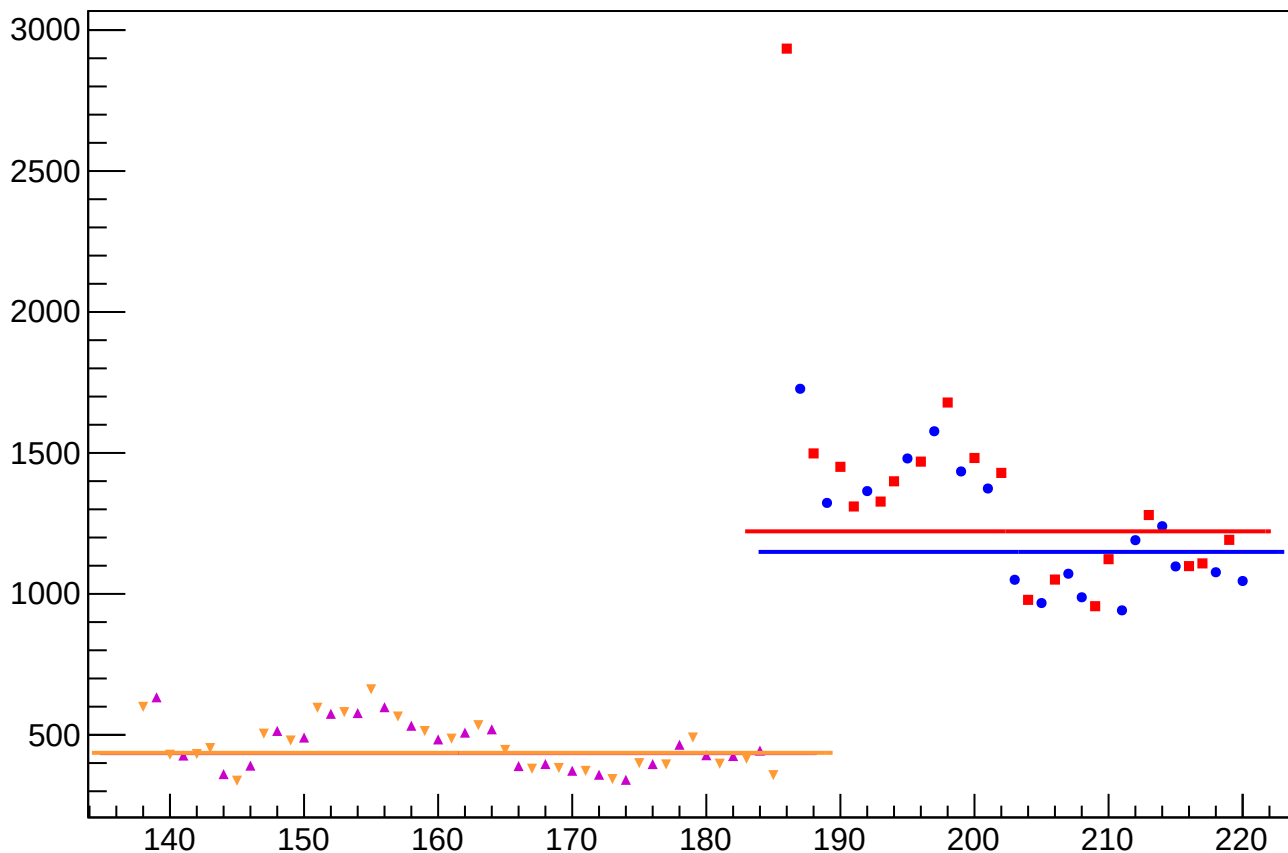
Right: -56.965+/-241.904 χ^2/NDF : 98.5/34

In: 65.891+/-100.918 χ^2/NDF : 65.2/39

Out: 320.423+/-99.298 χ^2/NDF : 138.1/42

All: 195.216+/-70.780 χ^2/NDF : 206.5/82

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1149.036 ± 0.235 χ^2/NDF : 615254.8/16

Left Out: 436.301 ± 0.073 χ^2/NDF : 1179348.4/24

Right Out: 1221.913 ± 0.250 χ^2/NDF : 902505.7/17

Left In: 435.275 ± 0.075 χ^2/NDF : 1027713.1/22

Left: 435.800 ± 0.052 χ^2/NDF : 2207157.7/47

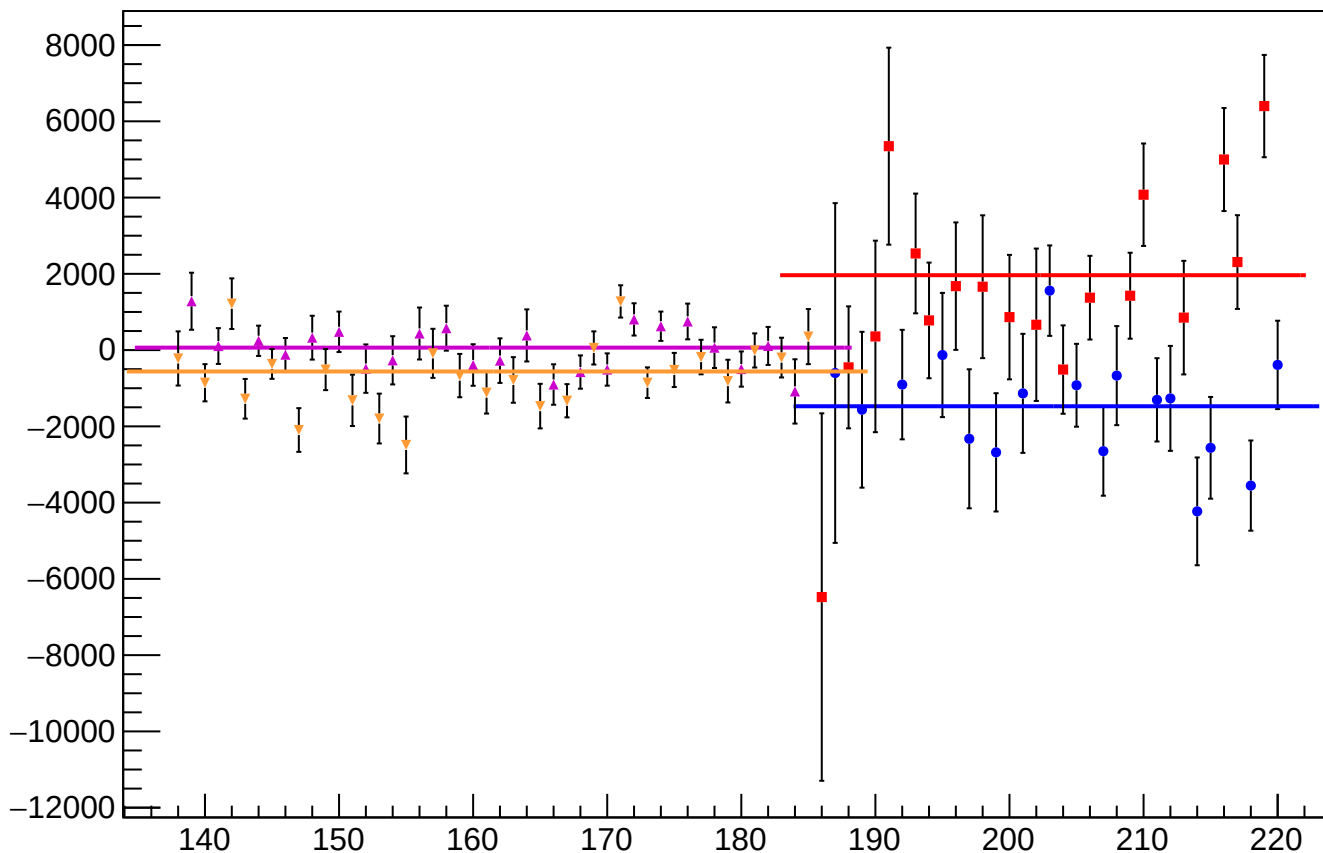
Right: 1183.190 ± 0.171 χ^2/NDF : 1562962.1/34

In: 501.281 ± 0.071 χ^2/NDF : 10039196.6/39

Out: 498.340 ± 0.070 χ^2/NDF : 11187019.5/42

All: 499.786 ± 0.050 χ^2/NDF : 21227079.2/82

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1473.121 ± 332.414 χ^2/NDF : 18.4/16

Left Out: -560.684 ± 104.207 χ^2/NDF : 61.8/24

Right Out: 1963.961 ± 353.931 χ^2/NDF : 33.3/17

Left In: 64.594 ± 106.708 χ^2/NDF : 25.2/22

Left: -255.457 ± 74.554 χ^2/NDF : 104.5/47

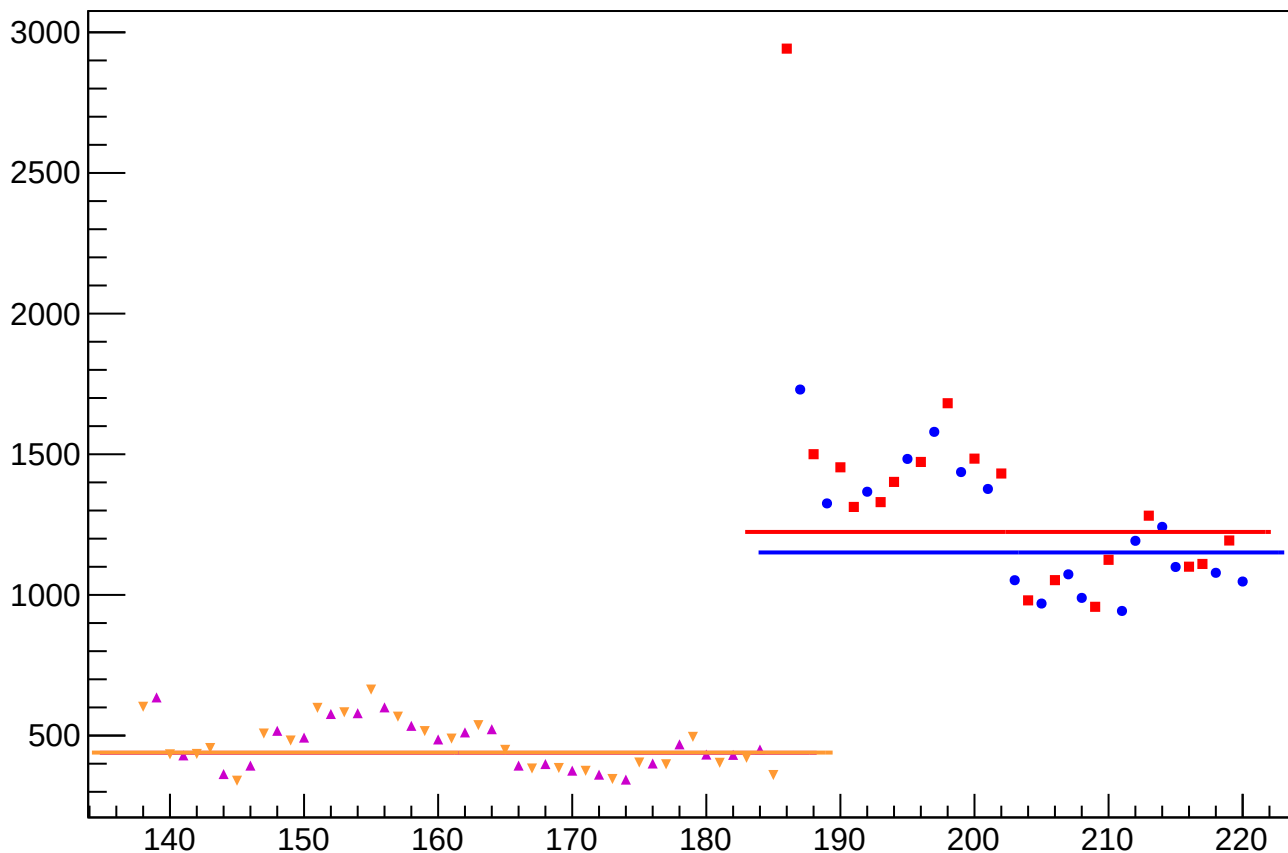
Right: 137.772 ± 242.302 χ^2/NDF : 101.8/34

In: -79.058 ± 101.601 χ^2/NDF : 63.0/39

Out: -359.287 ± 99.964 χ^2/NDF : 141.9/42

All: -221.448 ± 71.257 χ^2/NDF : 208.7/82

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1150.952 $\pm$ 0.235 χ^2 /NDF: 615596.6/16

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24

Right Out: 1223.878 $\pm$ 0.250 χ^2 /NDF: 903197.8/17

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF:1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

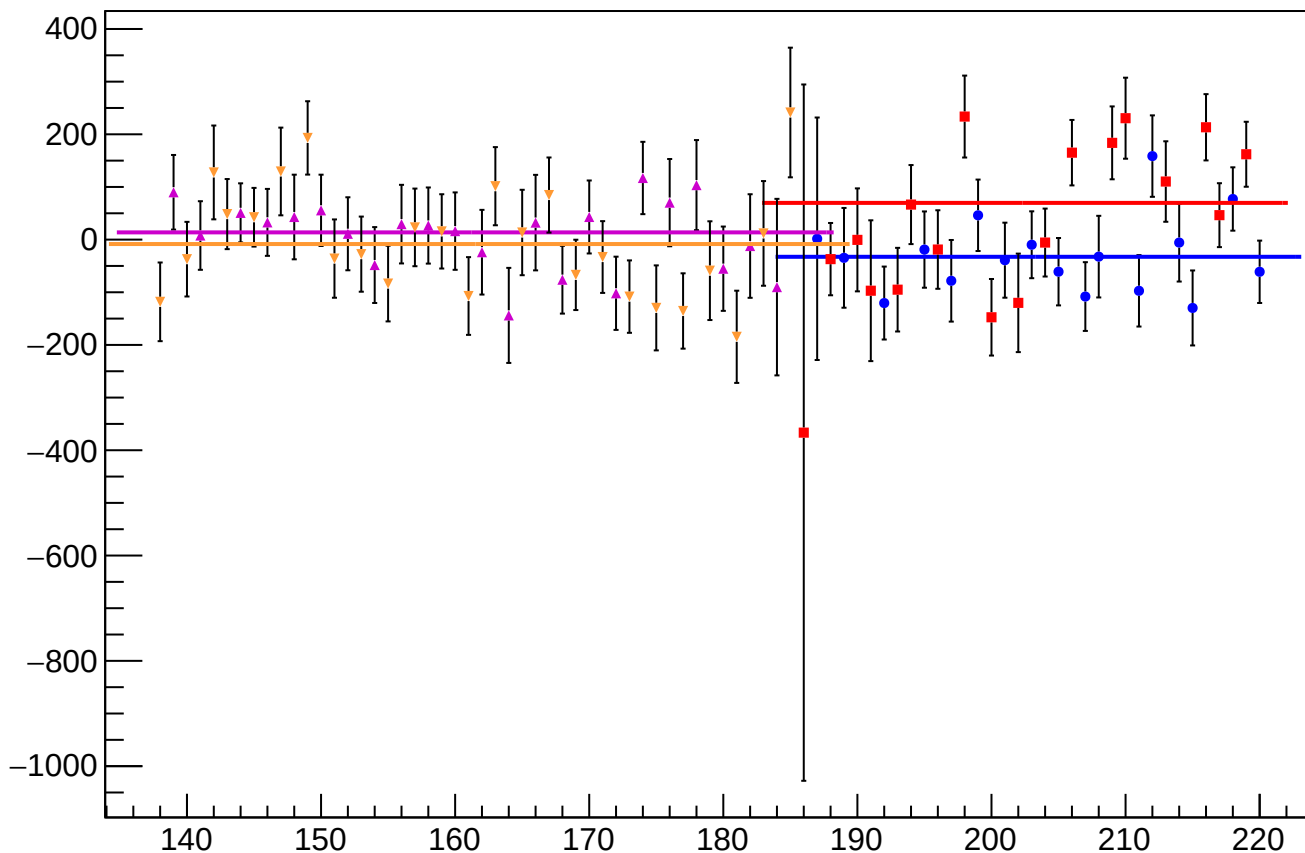
Right: 1185.131 $\pm$ 0.171 χ^2 /NDF: 1563907.9/34

In: 505.100 $\pm$ 0.072 χ^2 /NDF:9956466.7/39

Out: 502.096 $\pm$ 0.071 χ^2 /NDF:11105282.3/42

All: 503.574 $\pm$ 0.050 χ^2 /NDF: 21062637.2/82

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -32.637 ± 17.331 χ^2/NDF : 17.6/16

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 69.741 ± 17.694 χ^2/NDF : 46.8/17

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

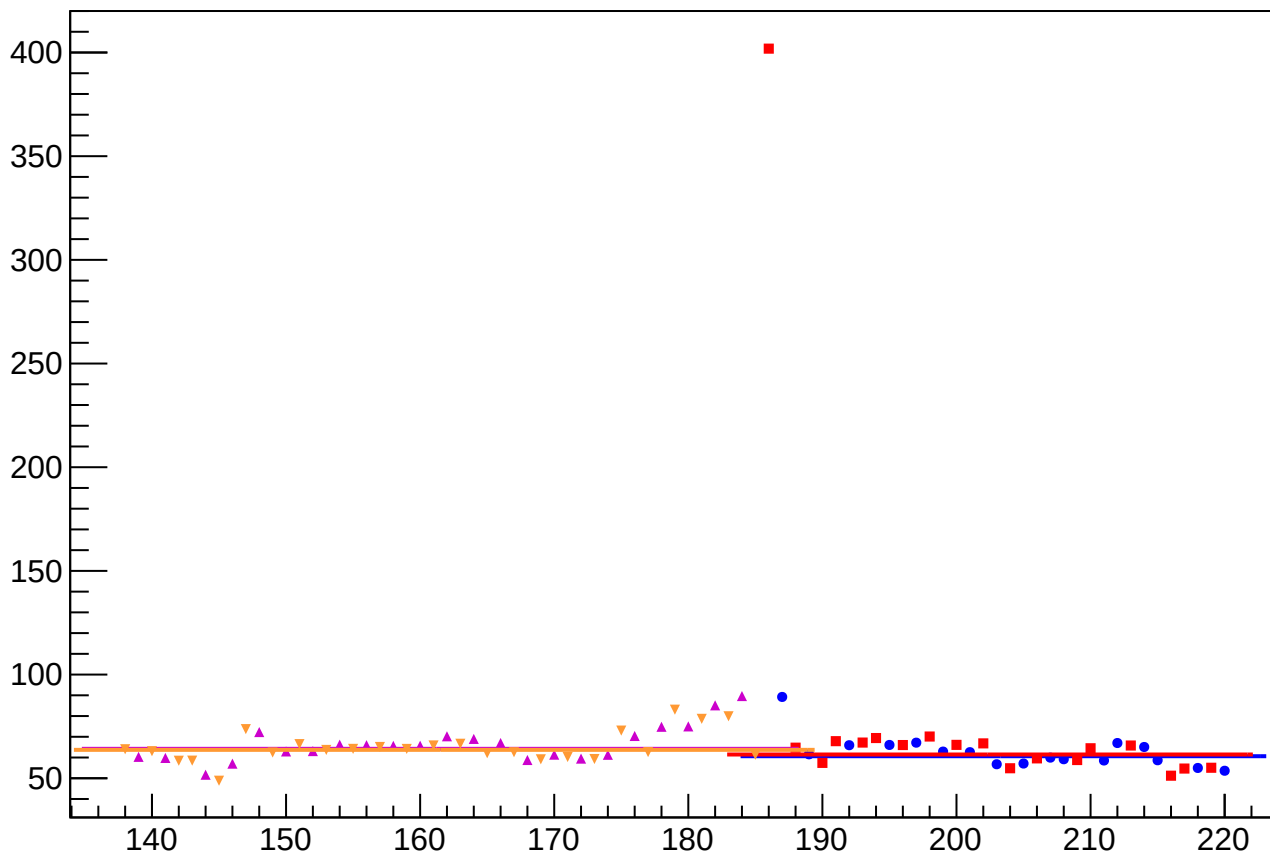
Right: 17.492 ± 12.381 χ^2/NDF : 81.5/34

In: -6.847 ± 11.544 χ^2/NDF : 37.8/39

Out: 24.101 ± 11.413 χ^2/NDF : 99.8/42

All: 8.804 ± 8.116 χ^2/NDF : 141.3/82

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 60.628 $\pm$ 0.012 χ^2 /NDF: 156238.2/16

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 61.453 $\pm$ 0.013 χ^2 /NDF: 757318.6/17

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

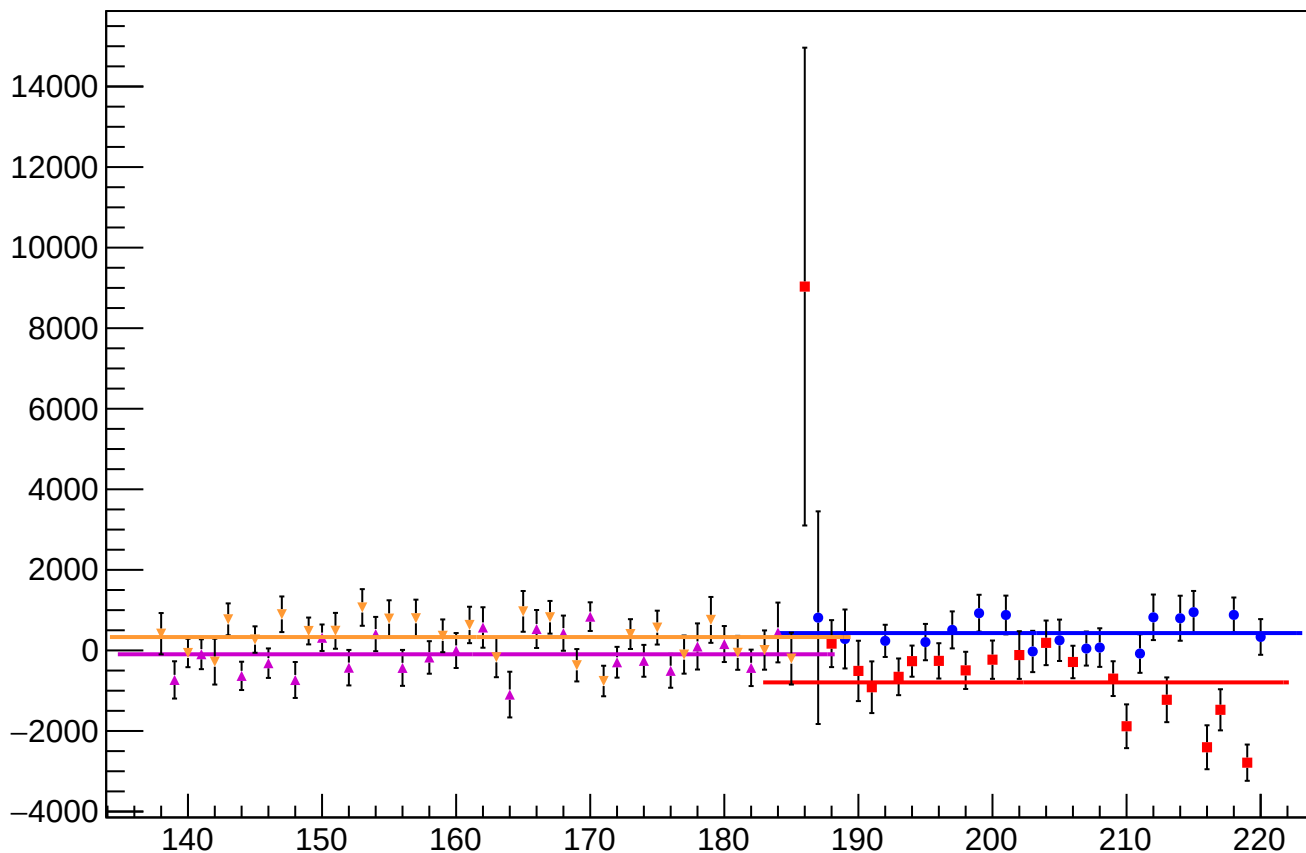
Right: 61.032 $\pm$ 0.009 χ^2 /NDF: 915774.5/34

In: 62.609 $\pm$ 0.008 χ^2 /NDF: 632876.5/39

Out: 62.763 $\pm$ 0.008 χ^2 /NDF: 1224525.8/42

All: 62.687 $\pm$ 0.006 χ^2 /NDF: 1857581.5/82

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 430.547 ± 120.082 χ^2/NDF : 9.1/16

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -793.762 ± 120.035 χ^2/NDF : 51.7/17

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

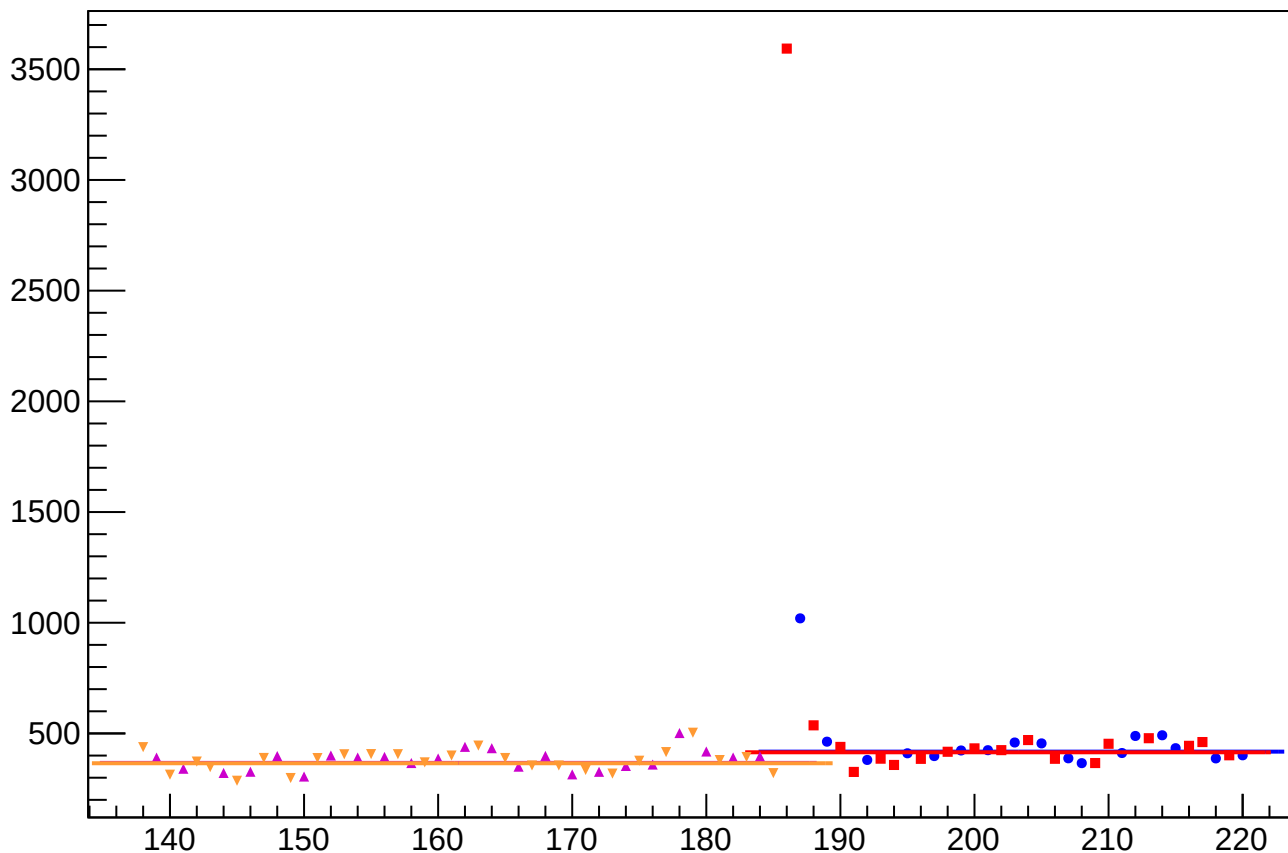
Right: -181.846 ± 84.894 χ^2/NDF : 112.8/34

In: 89.816 ± 71.323 χ^2/NDF : 50.2/39

Out: -50.444 ± 69.947 χ^2/NDF : 139.7/42

All: 18.320 ± 49.940 χ^2/NDF : 191.8/82

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 417.777 $\pm$ 0.085 χ^2 /NDF: 272504.4/16

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 414.846 $\pm$ 0.085 χ^2 /NDF: 882088.9/17

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

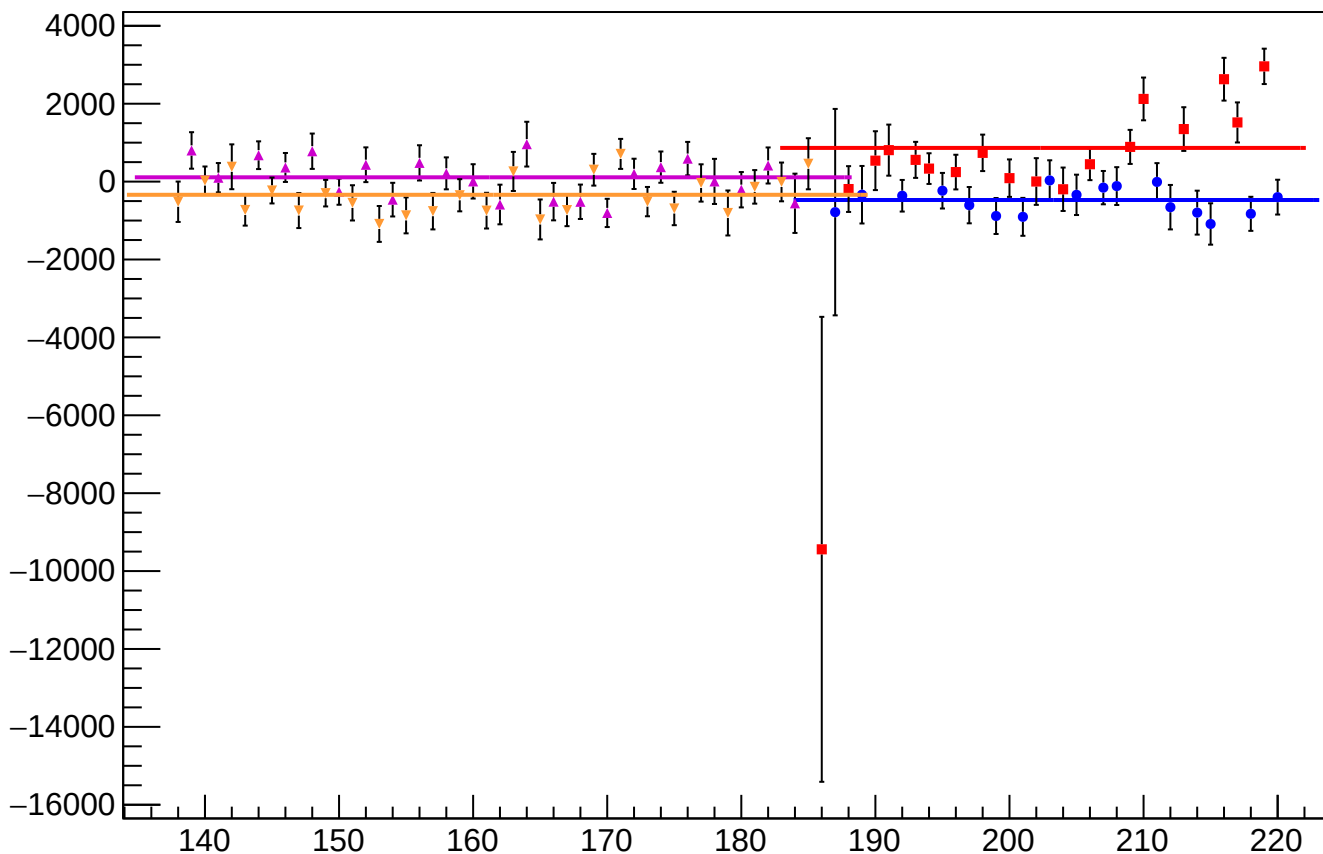
Right: 416.311 $\pm$ 0.060 χ^2 /NDF: 1155189.2/34

In: 384.864 $\pm$ 0.050 χ^2 /NDF: 982719.7/39

Out: 382.161 $\pm$ 0.049 χ^2 /NDF: 1725079.7/42

All: 383.486 $\pm$ 0.035 χ^2 /NDF: 2709264.5/82

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -472.272 $\pm$ 121.440 χ^2 /NDF: 7.5/16

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 865.125 $\pm$ 121.512 χ^2 /NDF: 59.2/17

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

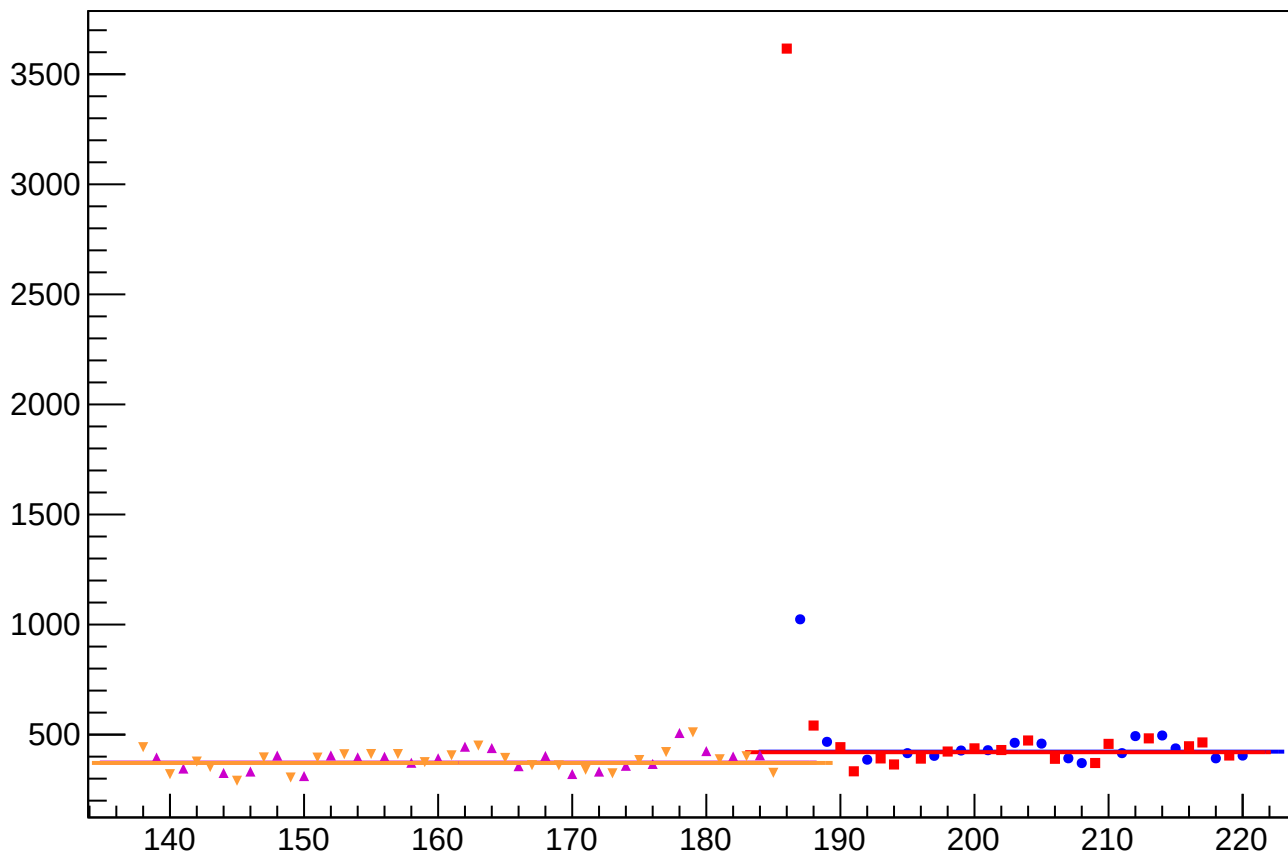
Right: 196.032 $\pm$ 85.896 χ^2 /NDF: 127.4/34

In: -96.456 $\pm$ 72.351 χ^2 /NDF:51.6/39

Out: 72.178 $\pm$ 70.979 χ^2 /NDF:152.1/42

All: -10.526 $\pm$ 50.668 χ^2 /NDF: 206.5/82

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 422.640 $\pm$ 0.086 χ^2 /NDF: 264907.7/16

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 420.139 $\pm$ 0.086 χ^2 /NDF: 865078.5/17

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

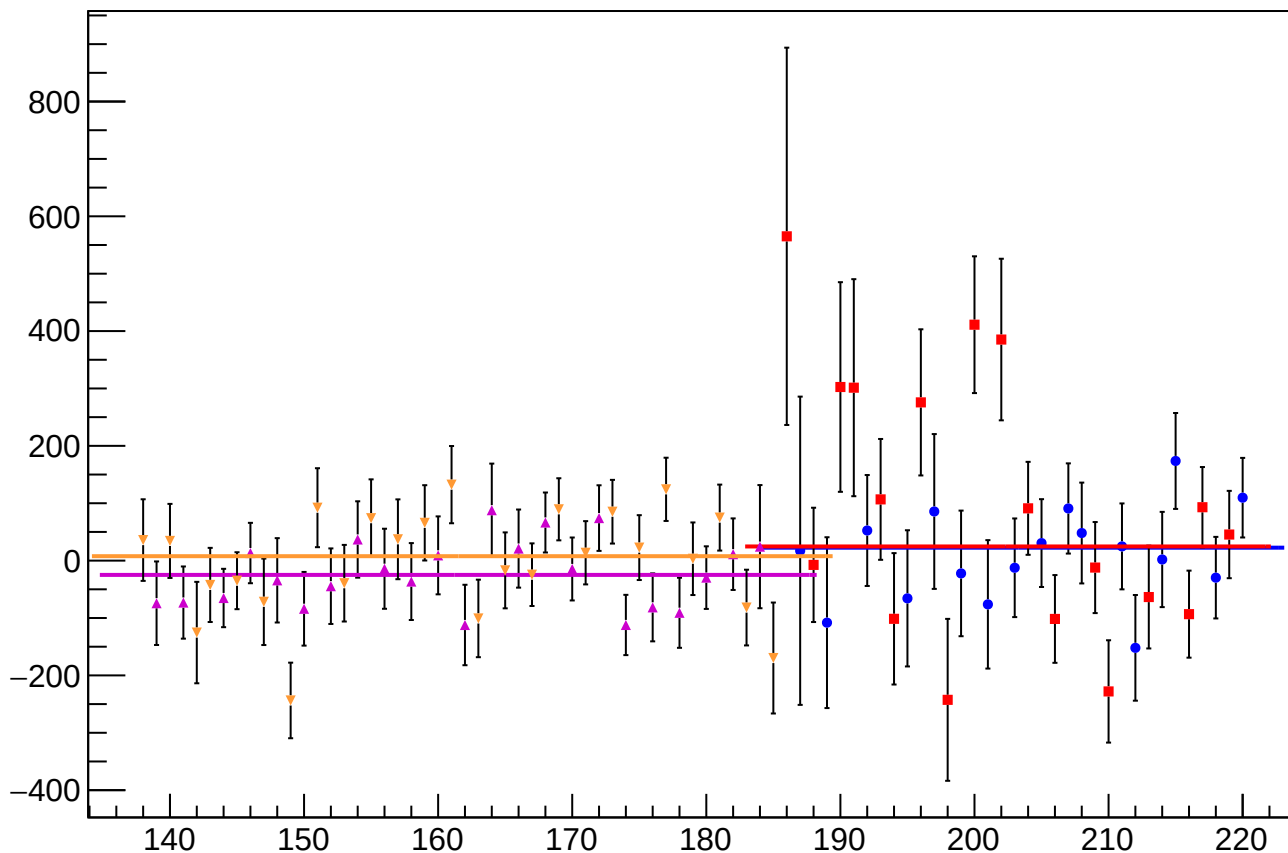
Right: 421.390 $\pm$ 0.061 χ^2 /NDF: 1130410.1/34

In: 390.579 $\pm$ 0.051 χ^2 /NDF: 948348.7/39

Out: 388.001 $\pm$ 0.050 χ^2 /NDF: 1681511.9/42

All: 389.266 $\pm$ 0.036 χ^2 /NDF: 2631154.5/82

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 22.569+/-22.120 χ^2/NDF : 12.6/16

Left Out: 7.723+/-12.656 χ^2/NDF : 45.4/24

Right Out: 24.678+/-23.245 χ^2/NDF : 49.7/17

Left In: -24.887+/-13.029 χ^2/NDF : 19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

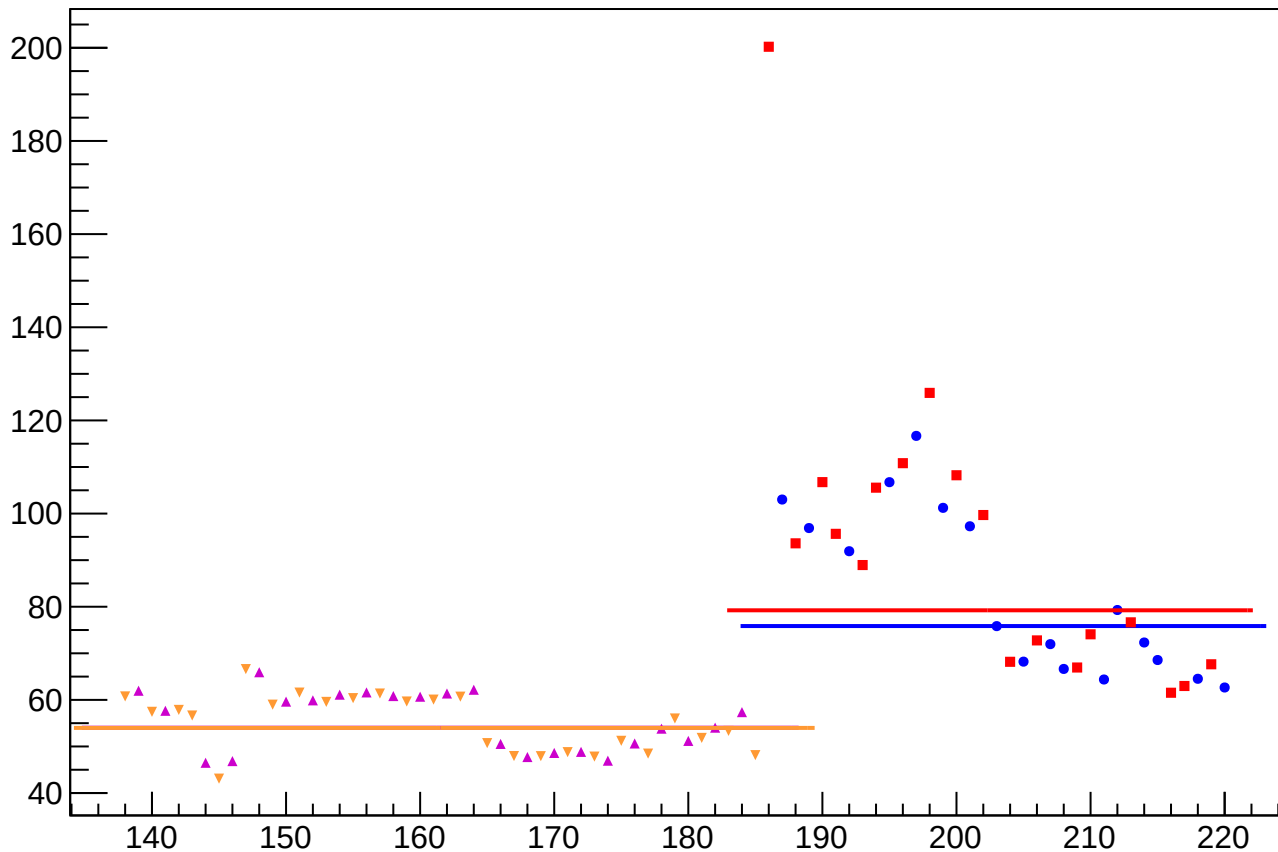
Right: 23.571+/-16.024 χ^2/NDF : 62.3/34

In: -12.664+/-11.226 χ^2/NDF : 35.8/39

Out: 11.600+/-11.115 χ^2/NDF : 95.5/42

All: -0.411+/-7.898 χ^2/NDF : 133.7/82

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 75.853 $\pm$ 0.016 χ^2 /NDF: 853833.9/16

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 79.233 $\pm$ 0.016 χ^2 /NDF: 1369426.2/17

Left In: 54.028 $\pm$ 0.009 χ^2 /NDF: 443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47

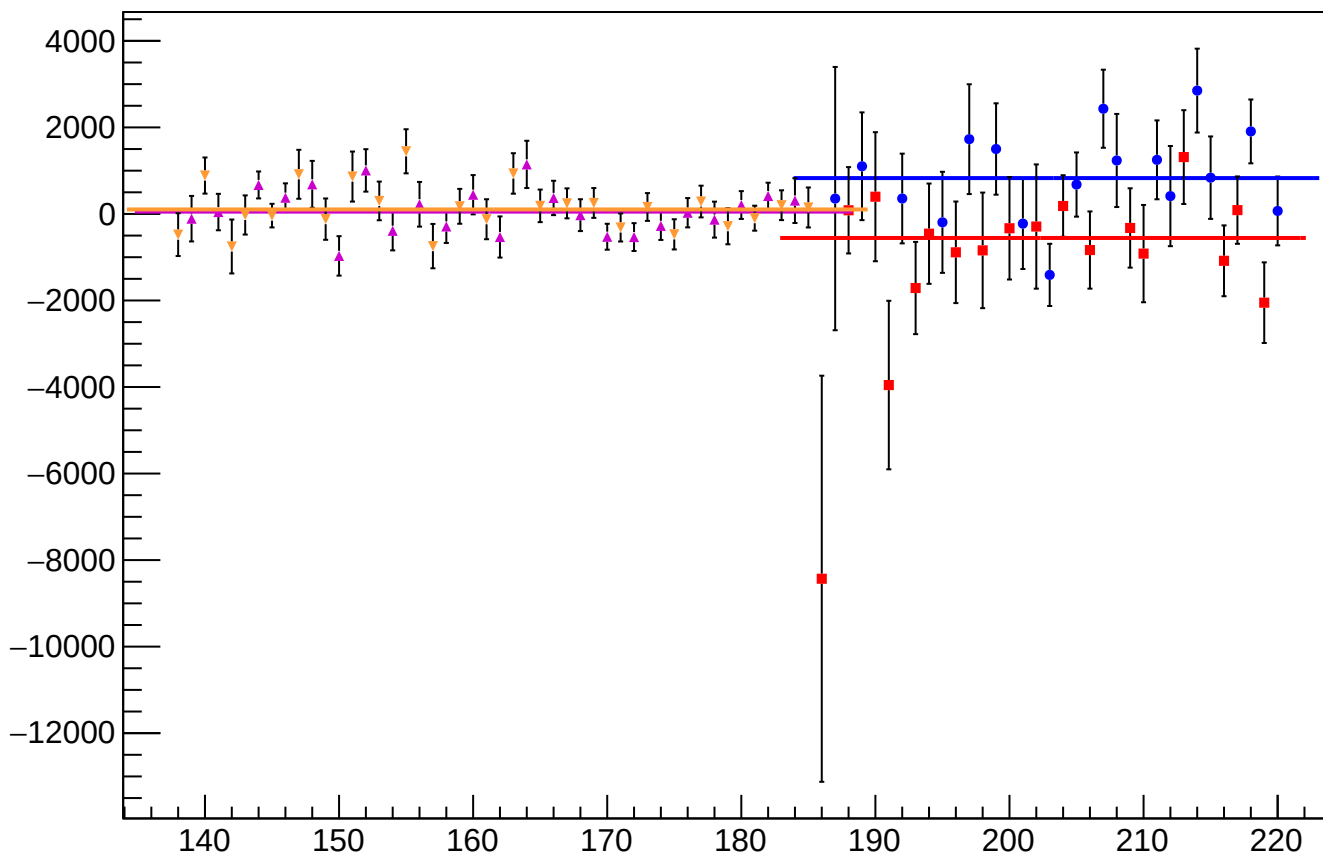
Right: 77.459 $\pm$ 0.011 χ^2 /NDF: 2245460.8/34

In: 59.649 $\pm$ 0.008 χ^2 /NDF: 2743200.6/39

Out: 59.757 $\pm$ 0.008 χ^2 /NDF: 3648644.6/42

All: 59.704 $\pm$ 0.006 χ^2 /NDF: 6391938.1/82

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 828.912 ± 234.263 χ^2/NDF : 23.7/16

Left Out: 103.768 ± 79.344 χ^2/NDF : 31.0/24

Right Out: -555.176 ± 248.217 χ^2/NDF : 16.1/17

Left In: 53.493 ± 81.201 χ^2/NDF : 34.1/22

Left: 79.212 ± 56.750 χ^2/NDF : 65.3/47

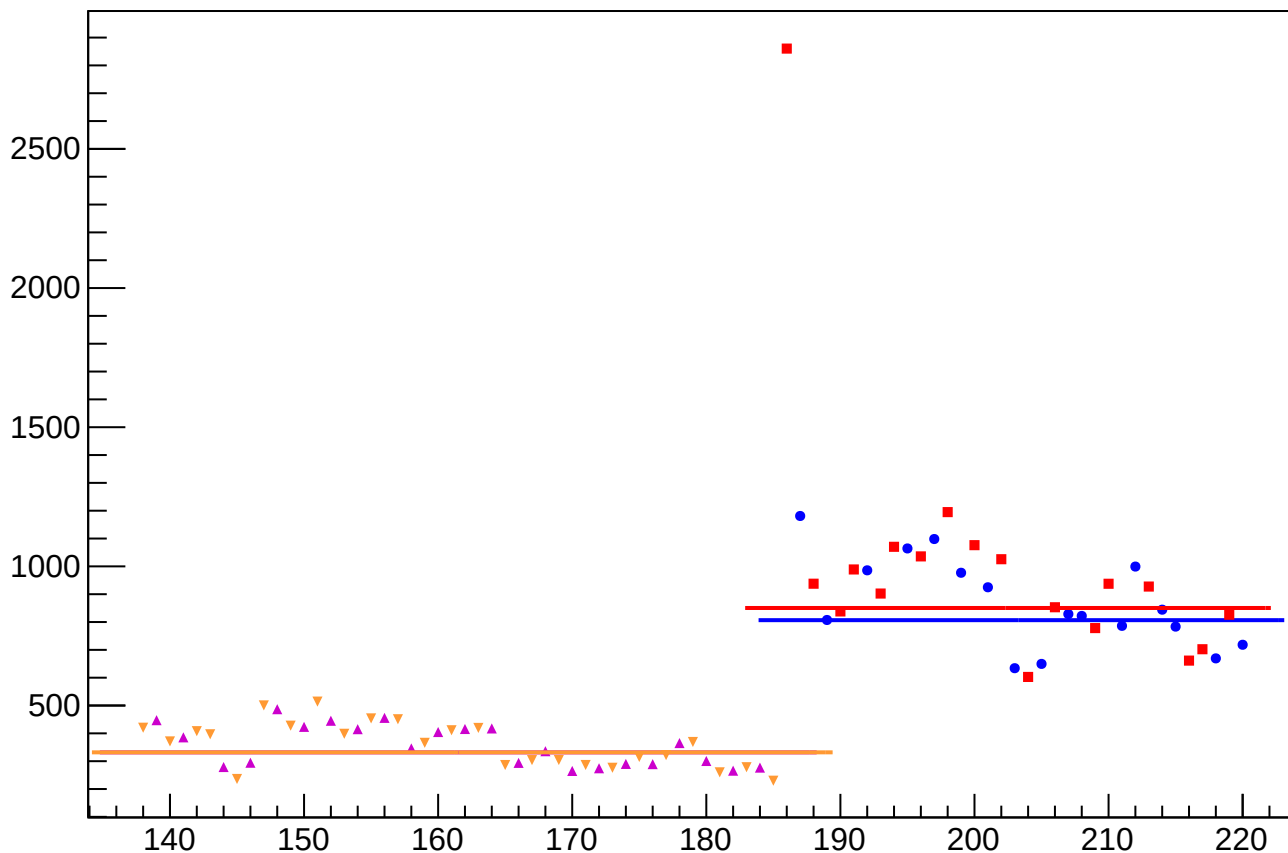
Right: 176.864 ± 170.369 χ^2/NDF : 56.2/34

In: 136.665 ± 76.723 χ^2/NDF : 67.6/39

Out: 42.679 ± 75.577 χ^2/NDF : 53.4/42

All: 88.965 ± 53.841 χ^2/NDF : 121.8/82

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 806.694+/-0.166 χ^2/NDF : 731465.0/16

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 850.467+/-0.176 χ^2/NDF : 1212154.9/17

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

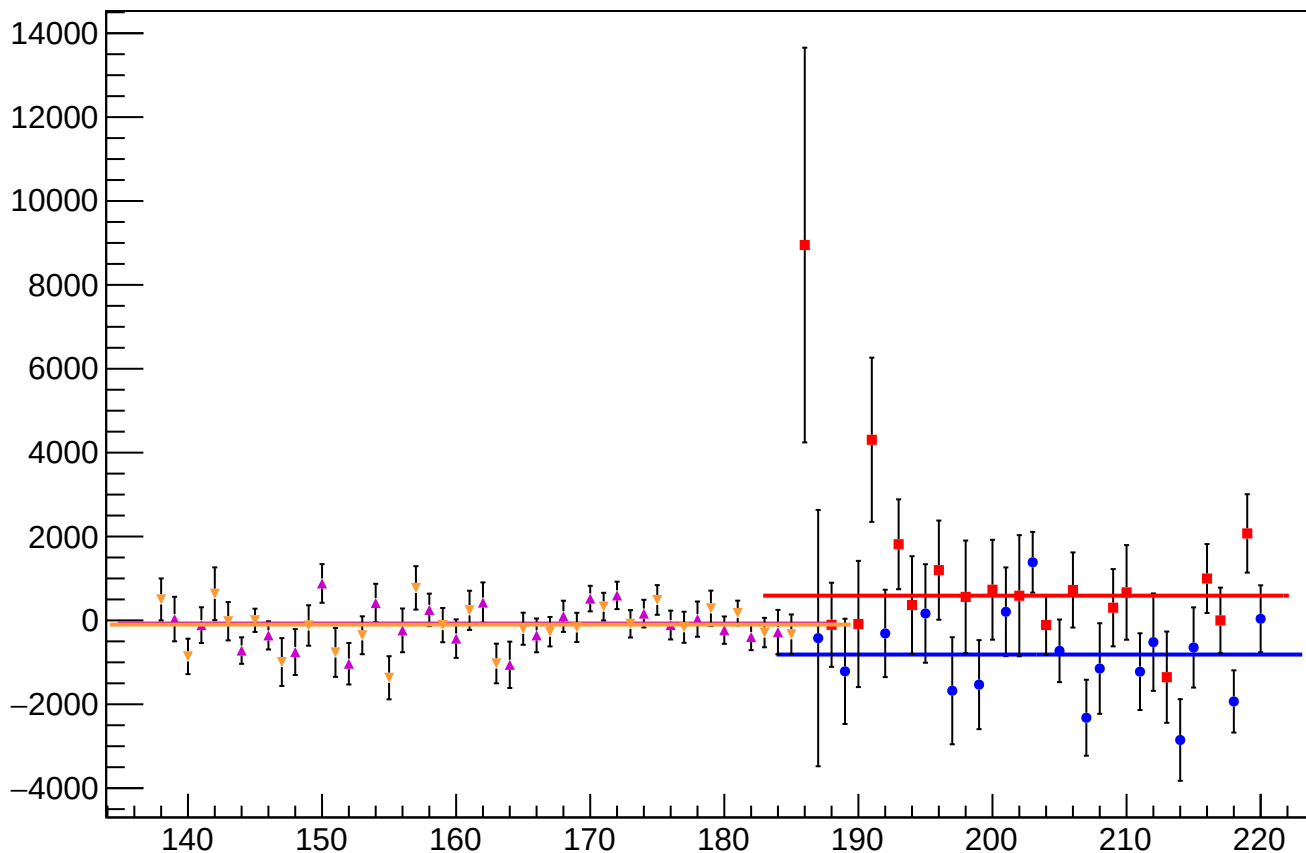
Right: 827.316+/-0.120 χ^2/NDF : 1976517.0/34

In: 382.618+/-0.054 χ^2/NDF : 9376170.0/39

Out: 379.857+/-0.053 χ^2/NDF : 10847809.8/42

All: 381.217+/-0.038 χ^2/NDF : 20225293.8/82

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -814.167+/-235.455 χ^2 /NDF: 23.1/16

Left Out: -99.785+/-80.428 χ^2 /NDF:30.7/24

Right Out: 589.759+/-249.442 χ^2 /NDF: 16.7/17

Left In: -75.579+/-82.319 χ^2 /NDF:32.1/22

Left: -87.963+/-57.528 χ^2 /NDF: 62.8/47

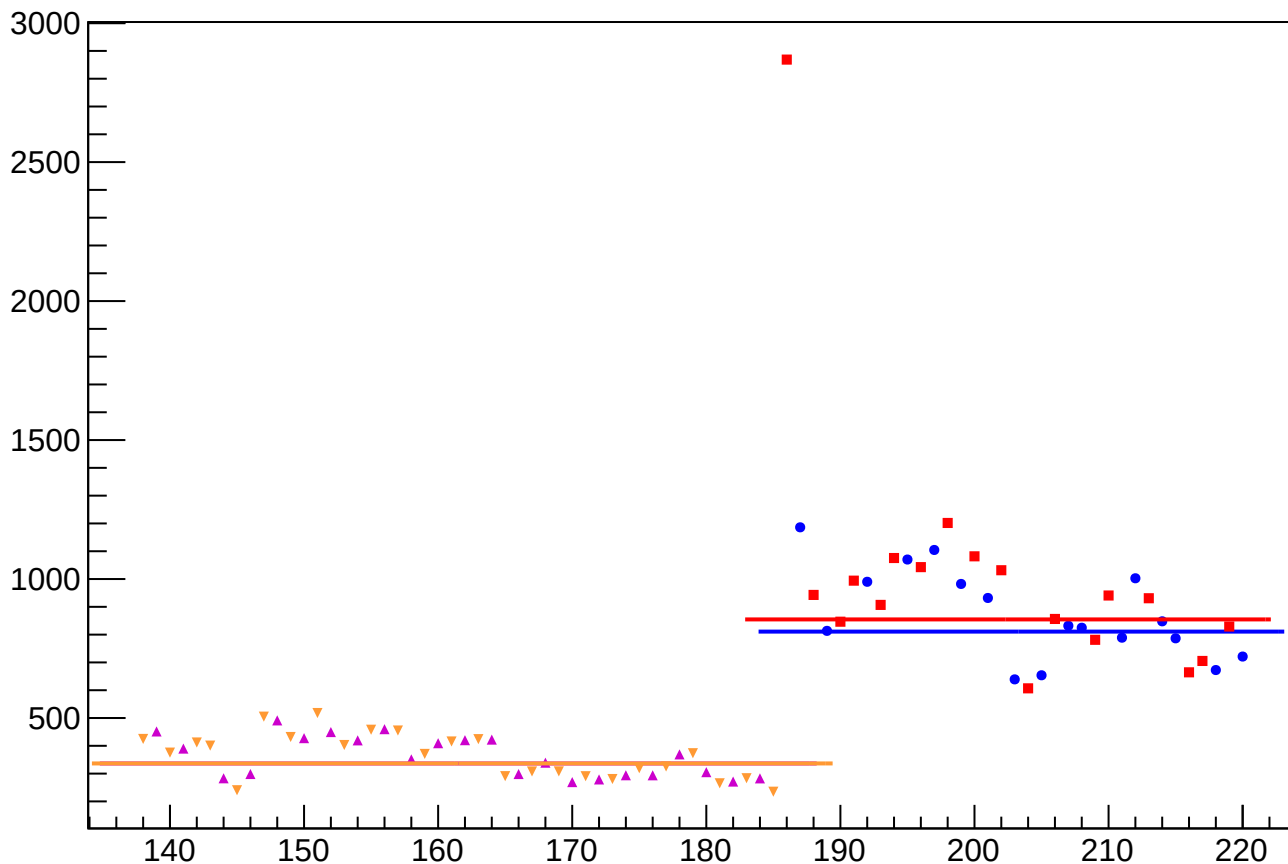
Right: -152.665+/-171.223 χ^2 /NDF: 56.5/34

In: -156.024+/-77.706 χ^2 /NDF:63.9/39

Out: -34.849+/-76.547 χ^2 /NDF:54.3/42

All: -94.526+/-54.532 χ^2 /NDF: 119.4/82

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 810.880 $\pm$ 0.166 χ^2 /NDF: 728685.4/16

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 854.721 $\pm$ 0.176 χ^2 /NDF: 1211169.1/17

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF: 1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

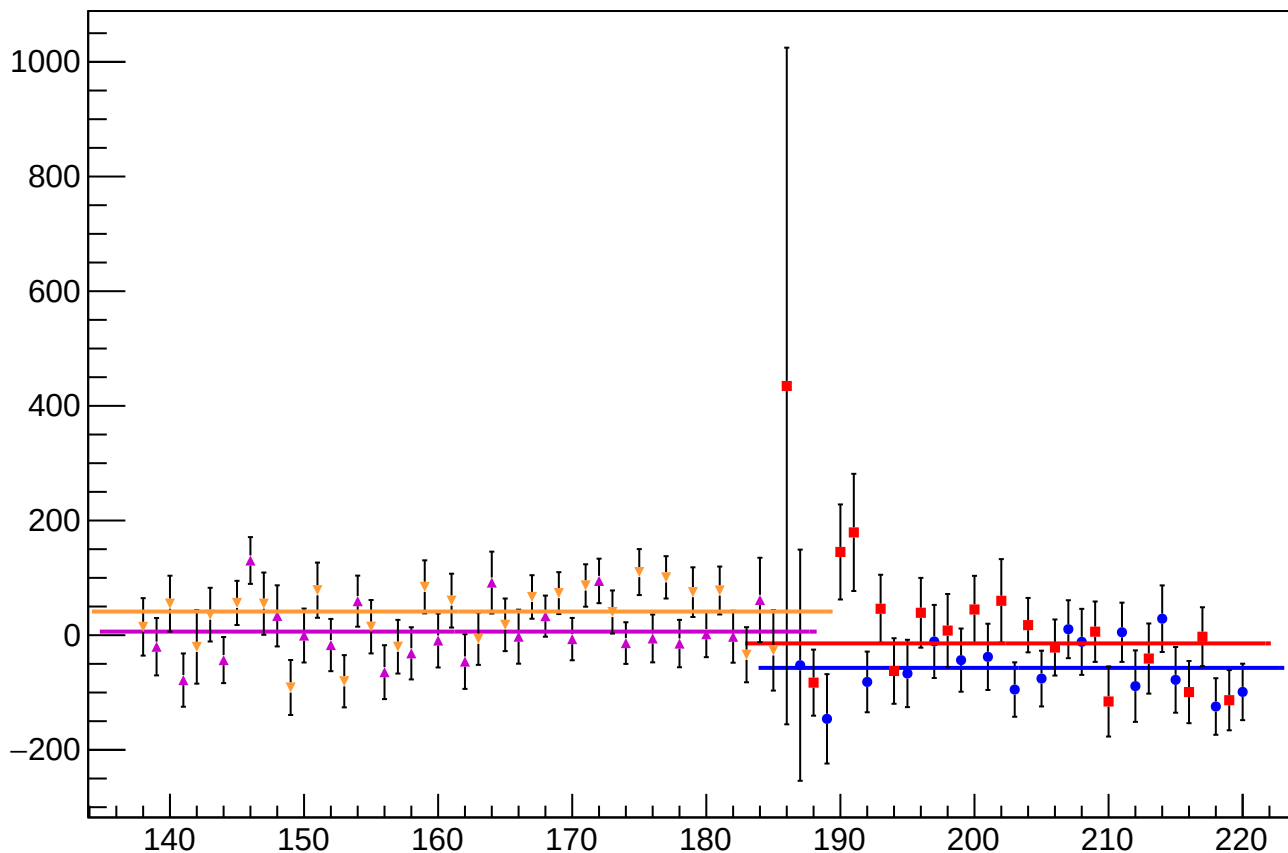
Right: 831.537 $\pm$ 0.121 χ^2 /NDF: 1972525.8/34

In: 388.114 $\pm$ 0.055 χ^2 /NDF: 9233672.7/39

Out: 385.354 $\pm$ 0.054 χ^2 /NDF: 10694644.0/42

All: 386.713 $\pm$ 0.039 χ^2 /NDF: 19929597.5/82

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -57.011 ± 13.701 χ^2/NDF : 12.0/16

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: -14.322 ± 14.188 χ^2/NDF : 23.6/17

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

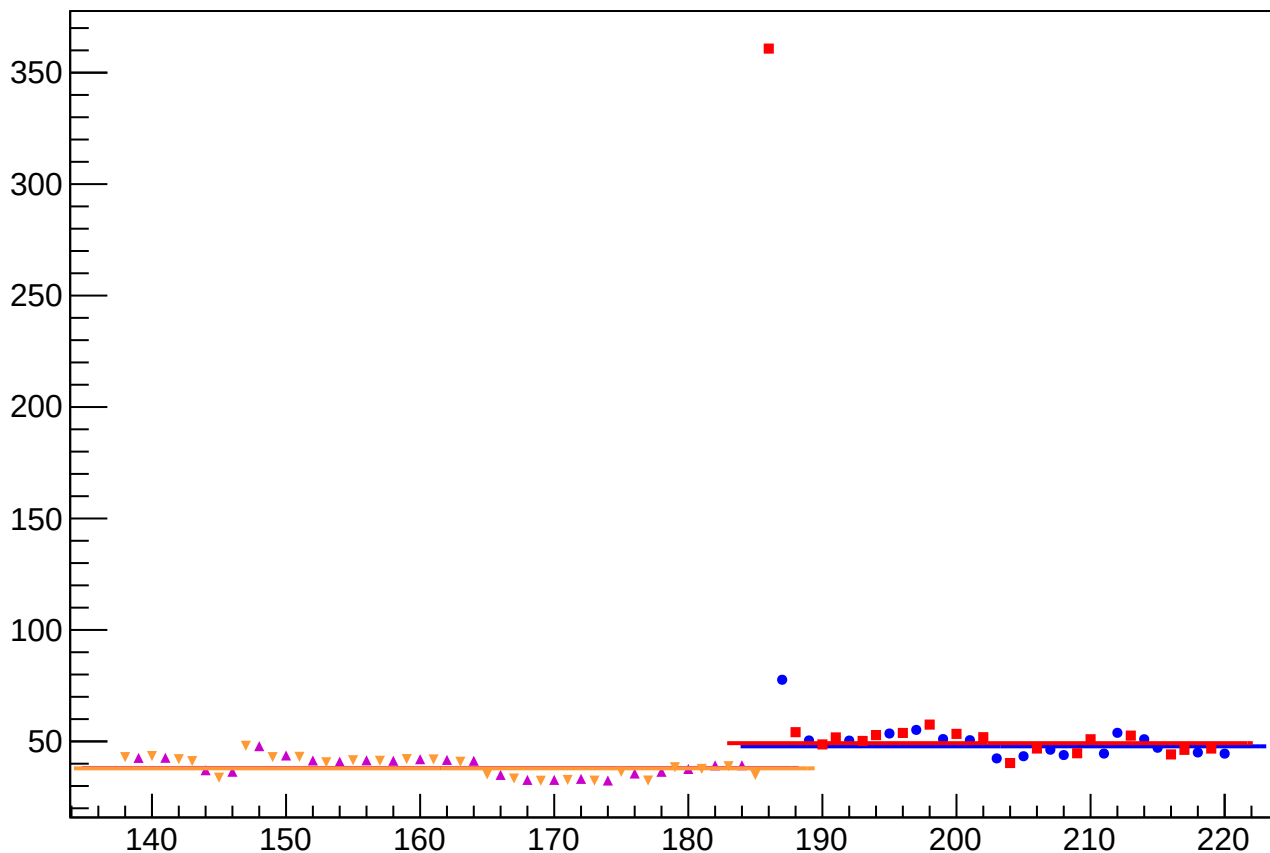
Right: -36.411 ± 9.855 χ^2/NDF : 40.3/34

In: -13.333 ± 7.623 χ^2/NDF : 57.0/39

Out: 25.608 ± 7.533 χ^2/NDF : 69.0/42

All: 6.370 ± 5.358 χ^2/NDF : 139.2/82

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 47.796 $\pm$ 0.010 χ^2 /NDF: 210252.5/16

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.208 $\pm$ 0.010 χ^2 /NDF: 766684.0/17

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

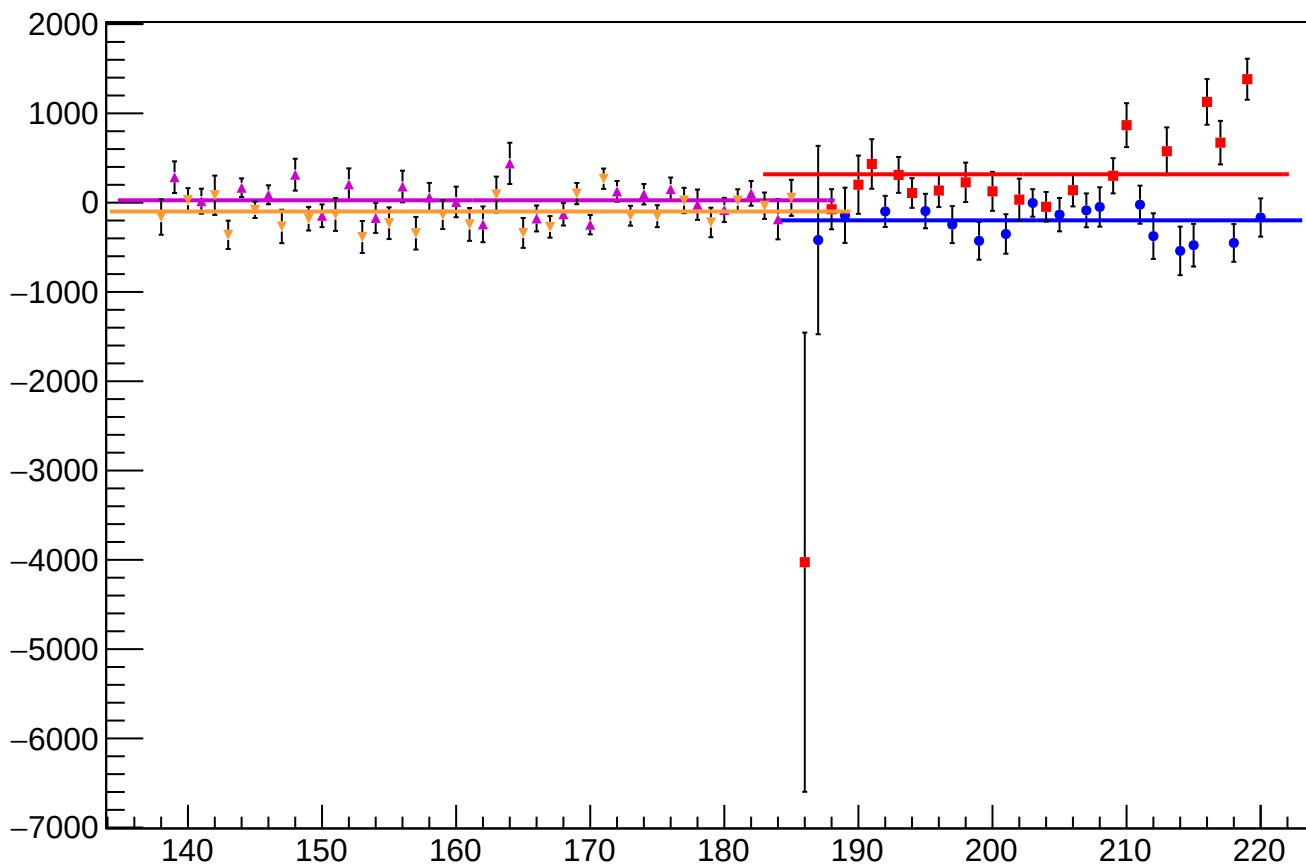
Right: 48.477 $\pm$ 0.007 χ^2 /NDF: 987194.7/34

In: 41.093 $\pm$ 0.005 χ^2 /NDF: 1299928.7/39

Out: 41.106 $\pm$ 0.005 χ^2 /NDF: 2162139.9/42

All: 41.100 $\pm$ 0.004 χ^2 /NDF: 3462071.5/82

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -198.016 ± 52.070 χ^2/NDF : 10.5/16

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 317.787 ± 52.247 χ^2/NDF : 56.5/17

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

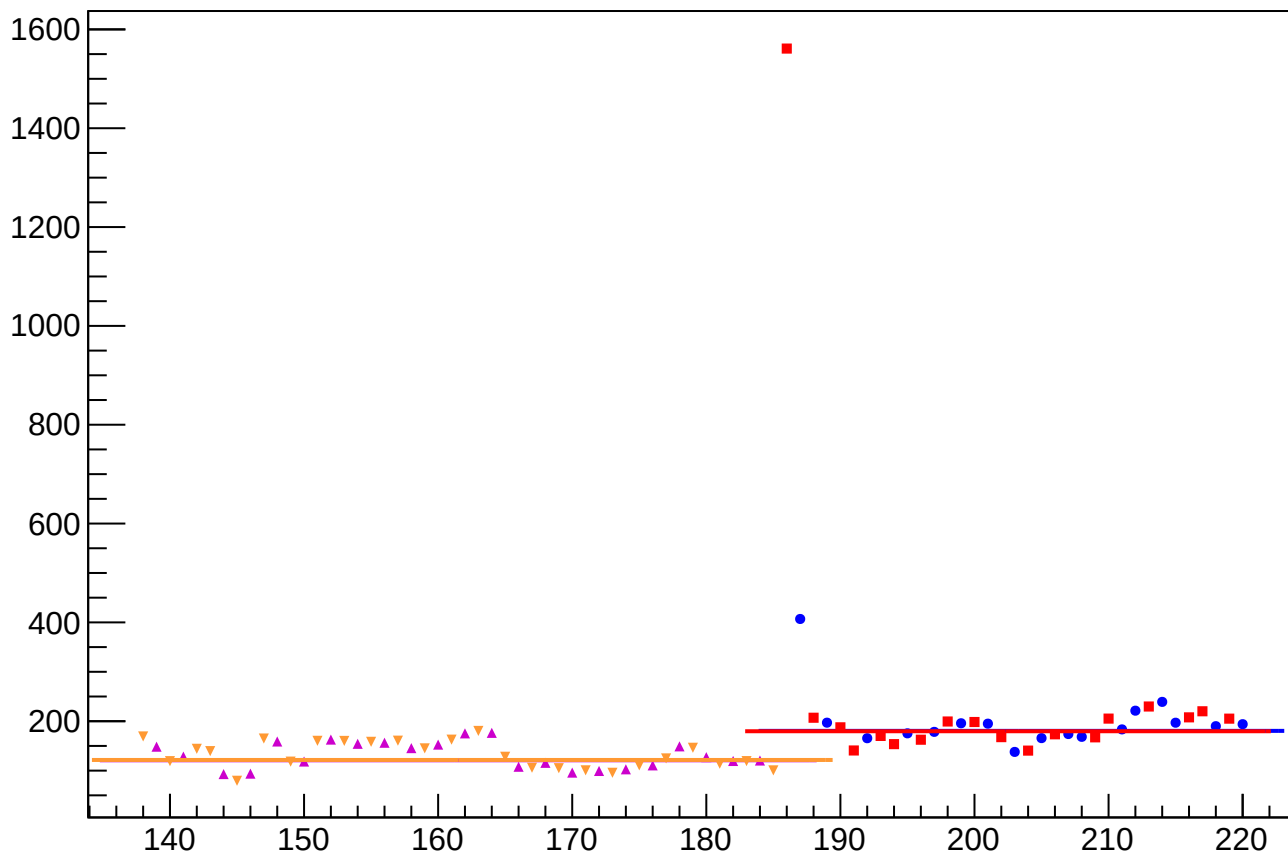
Right: 59.009 ± 36.881 χ^2/NDF : 115.9/34

In: -28.755 ± 25.782 χ^2/NDF : 55.2/39

Out: -0.146 ± 25.420 χ^2/NDF : 137.8/42

All: -14.247 ± 18.101 χ^2/NDF : 193.5/82

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 180.464 $\pm$ 0.037 χ^2 /NDF: 472324.5/16

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 179.720 $\pm$ 0.037 χ^2 /NDF: 1071984.2/17

Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47

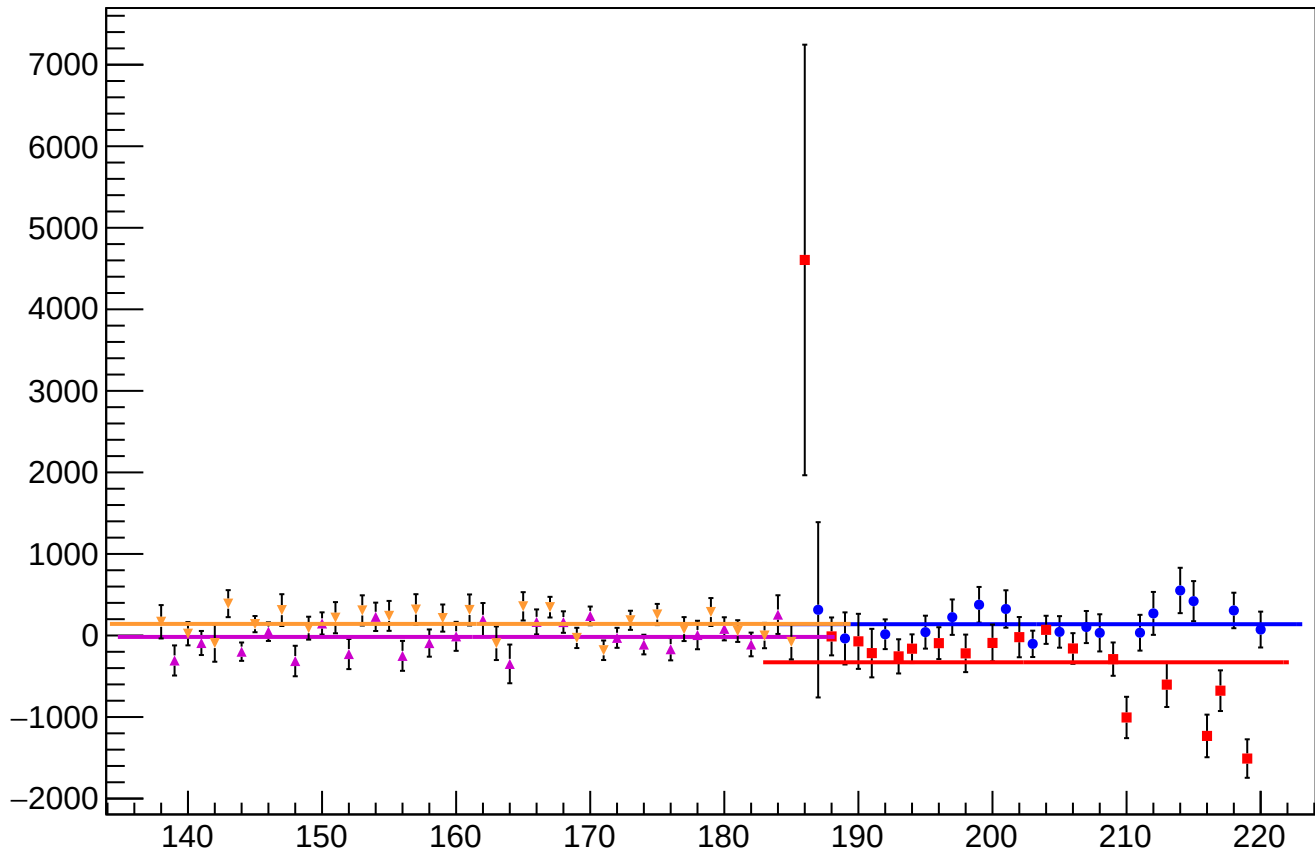
Right: 180.094 $\pm$ 0.026 χ^2 /NDF: 1544512.0/34

In: 135.524 $\pm$ 0.018 χ^2 /NDF:3828894.9/39

Out: 135.351 $\pm$ 0.018 χ^2 /NDF:4673035.2/42

All: 135.436 $\pm$ 0.013 χ^2 /NDF: 8501975.4/82

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 138.320 $\pm$ 54.000 χ^2 /NDF: 10.4/16

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF: 26.9/24

Right Out: -328.661 $\pm$ 54.371 χ^2 /NDF: 64.6/17

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF: 30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

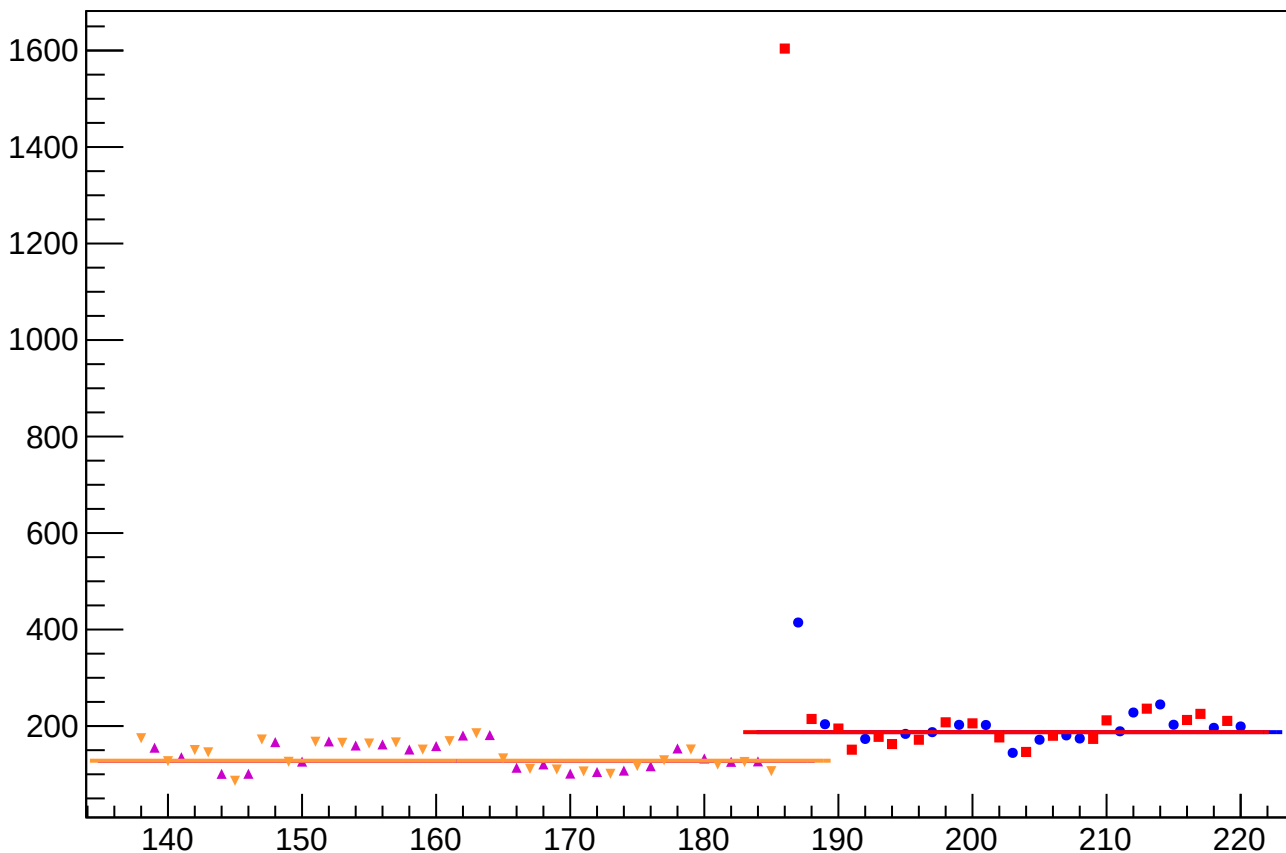
Right: -93.572 $\pm$ 38.314 χ^2 /NDF: 112.2/34

In: 21.380 $\pm$ 27.021 χ^2 /NDF: 46.8/39

Out: 28.937 $\pm$ 26.650 χ^2 /NDF: 148.4/42

All: 25.211 $\pm$ 18.974 χ^2 /NDF: 195.3/82

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 187.354 $\pm$ 0.038 χ^2 /NDF: 438643.2/16

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 187.333 $\pm$ 0.038 χ^2 /NDF: 1014633.8/17

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF:1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

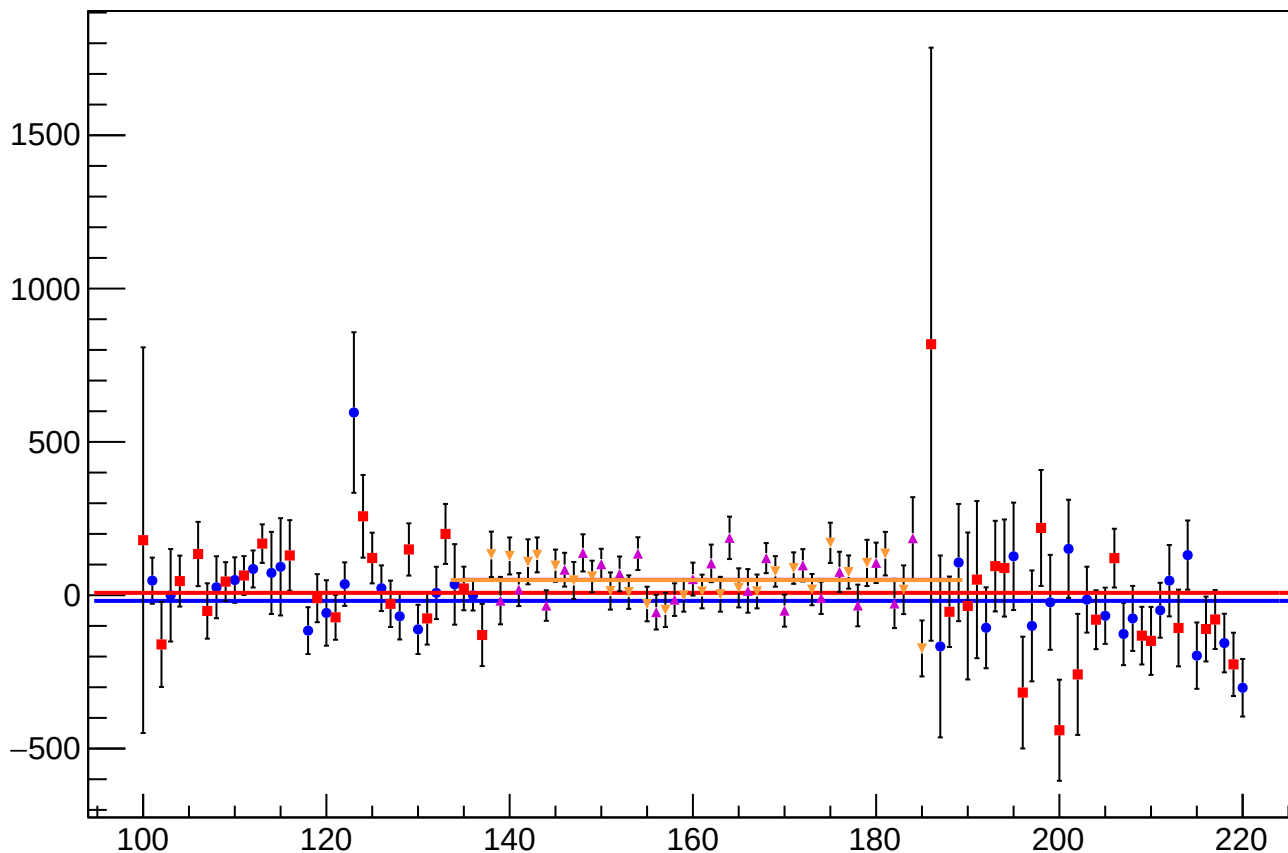
Right: 187.343 $\pm$ 0.027 χ^2 /NDF: 1453277.2/34

In: 142.519 $\pm$ 0.019 χ^2 /NDF:3513560.3/39

Out: 142.387 $\pm$ 0.019 χ^2 /NDF:4346401.2/42

All: 142.452 $\pm$ 0.013 χ^2 /NDF: 7859985.5/82

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -18.412 ± 16.505 $\chi^2/\text{NDF}: 37.0/33$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 7.771 ± 16.387 $\chi^2/\text{NDF}: 58.4/36$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

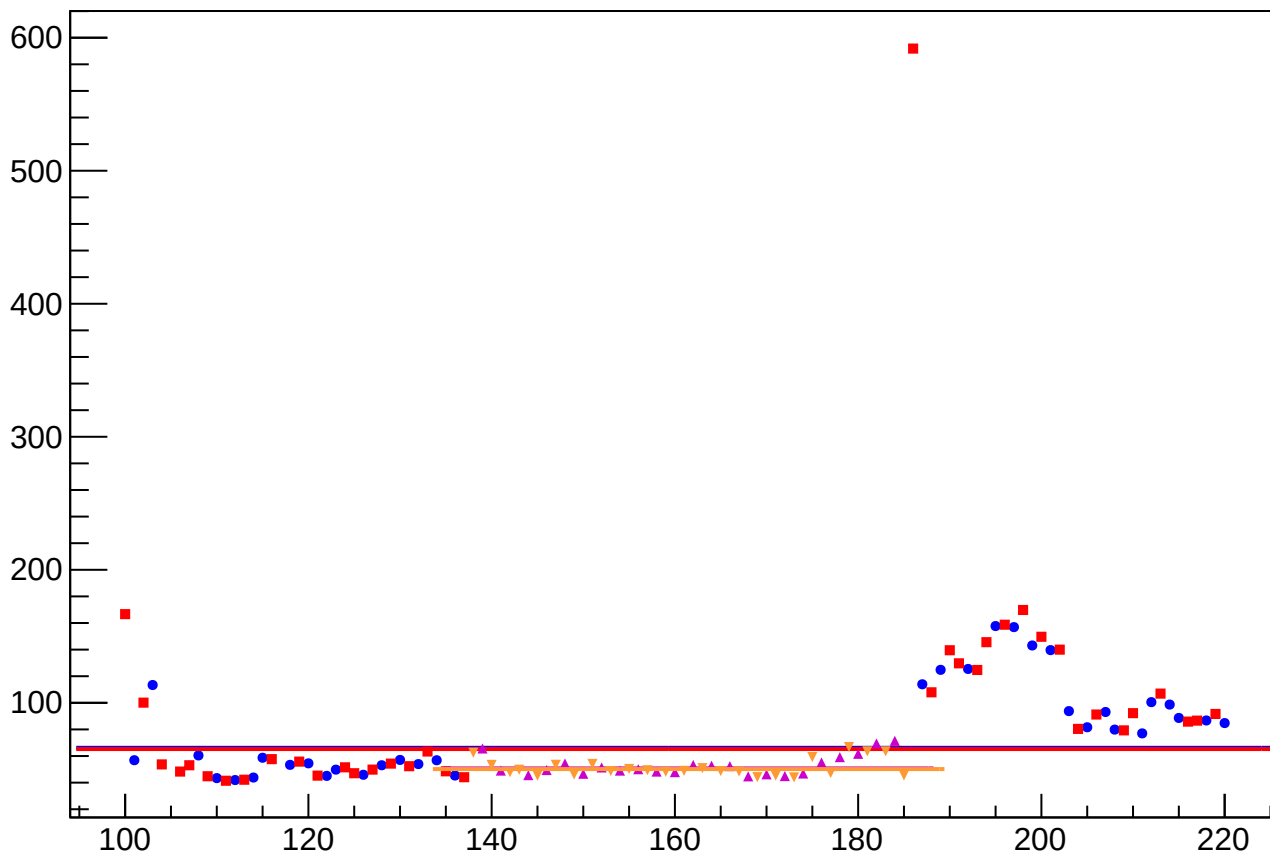
Right: -5.227 ± 11.629 $\chi^2/\text{NDF}: 96.6/70$

In: 25.905 ± 9.839 $\chi^2/\text{NDF}: 80.4/56$

Out: 35.177 ± 9.579 $\chi^2/\text{NDF}: 90.7/61$

All: 30.665 ± 6.863 $\chi^2/\text{NDF}: 171.5/118$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 66.179+/-0.012 χ^2/NDF : 5301547.5/33

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 65.242+/-0.012 χ^2/NDF : 6594054.2/36

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

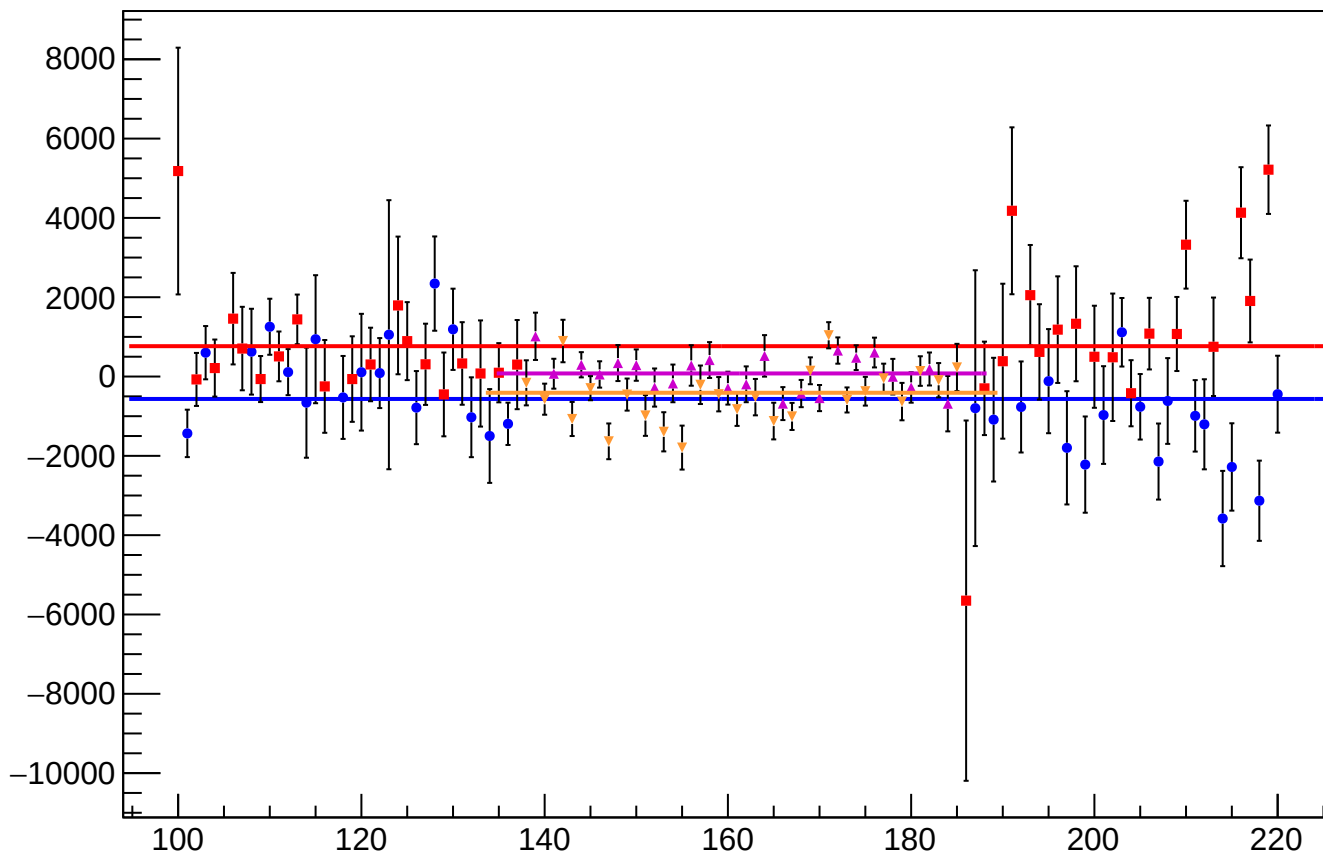
Right: 65.707+/-0.008 χ^2/NDF : 11898844.9/70

In: 56.189+/-0.007 χ^2/NDF : 6907280.3/56

Out: 55.332+/-0.007 χ^2/NDF : 8172677.1/61

All: 55.749+/-0.005 χ^2/NDF : 15087737.9/118

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -565.179+/-165.508 χ^2/NDF : 52.6/33

Left Out: -409.164+/-82.348 χ^2/NDF : 61.7/24

Right Out: 765.543+/-165.817 χ^2/NDF : 53.0/36

Left In: 77.872+/-84.072 χ^2/NDF : 24.8/22

Left: -170.691+/-58.829 χ^2/NDF : 103.6/47

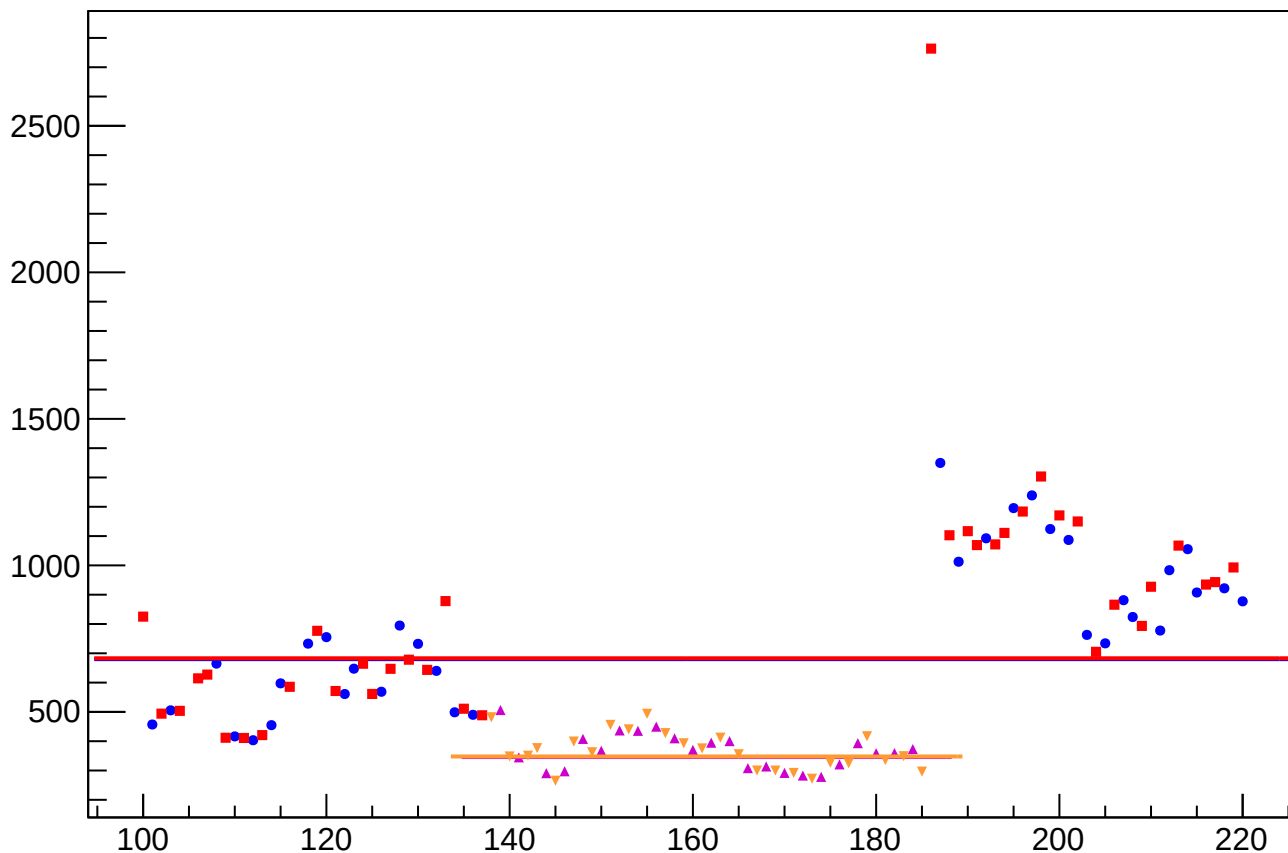
Right: 98.942+/-117.141 χ^2/NDF : 137.9/70

In: -54.021+/-74.956 χ^2/NDF : 89.5/56

Out: -176.760+/-73.754 χ^2/NDF : 154.9/61

All: -116.383+/-52.572 χ^2/NDF : 245.8/118

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 680.044+/-0.117 χ^2/NDF : 3924721.9/33

Left Out: 347.875+/-0.058 χ^2/NDF :1044096.7/24

Right Out: 682.962+/-0.117 χ^2/NDF : 4922869.9/36

Left In: 345.954+/-0.059 χ^2/NDF :900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

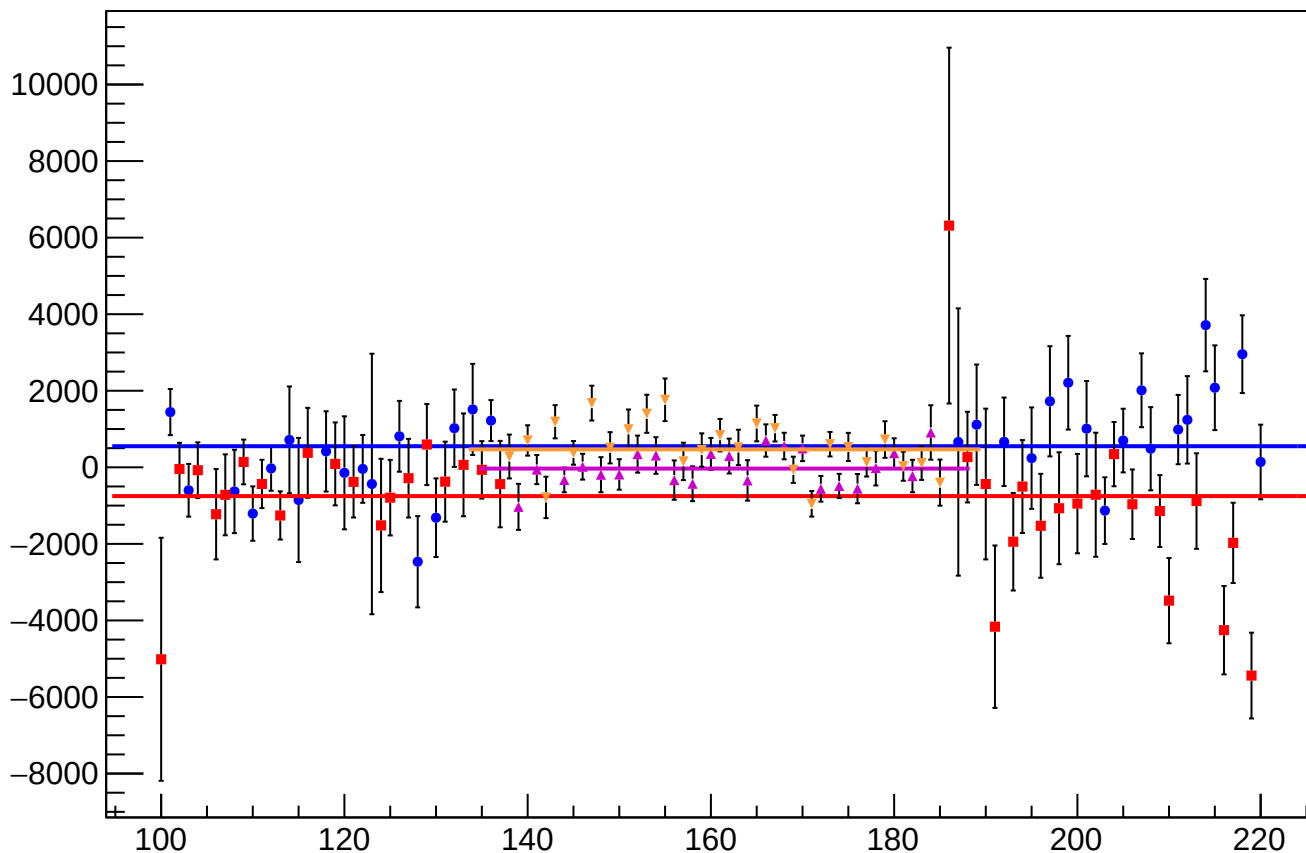
Right: 681.500+/-0.083 χ^2/NDF : 8847902.1/70

In: 414.478+/-0.053 χ^2/NDF :11303376.3/56

Out: 414.169+/-0.052 χ^2/NDF :12518569.7/61

All: 414.321+/-0.037 χ^2/NDF : 23821963.3/117

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 551.172 $\pm$ 166.630 χ^2 /NDF: 51.1/33

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -752.120 $\pm$ 167.026 χ^2 /NDF: 55.3/36

Left In: -32.801 $\pm$ 85.064 χ^2 /NDF:25.7/22

Left: 223.299 $\pm$ 59.514 χ^2 /NDF: 100.9/47

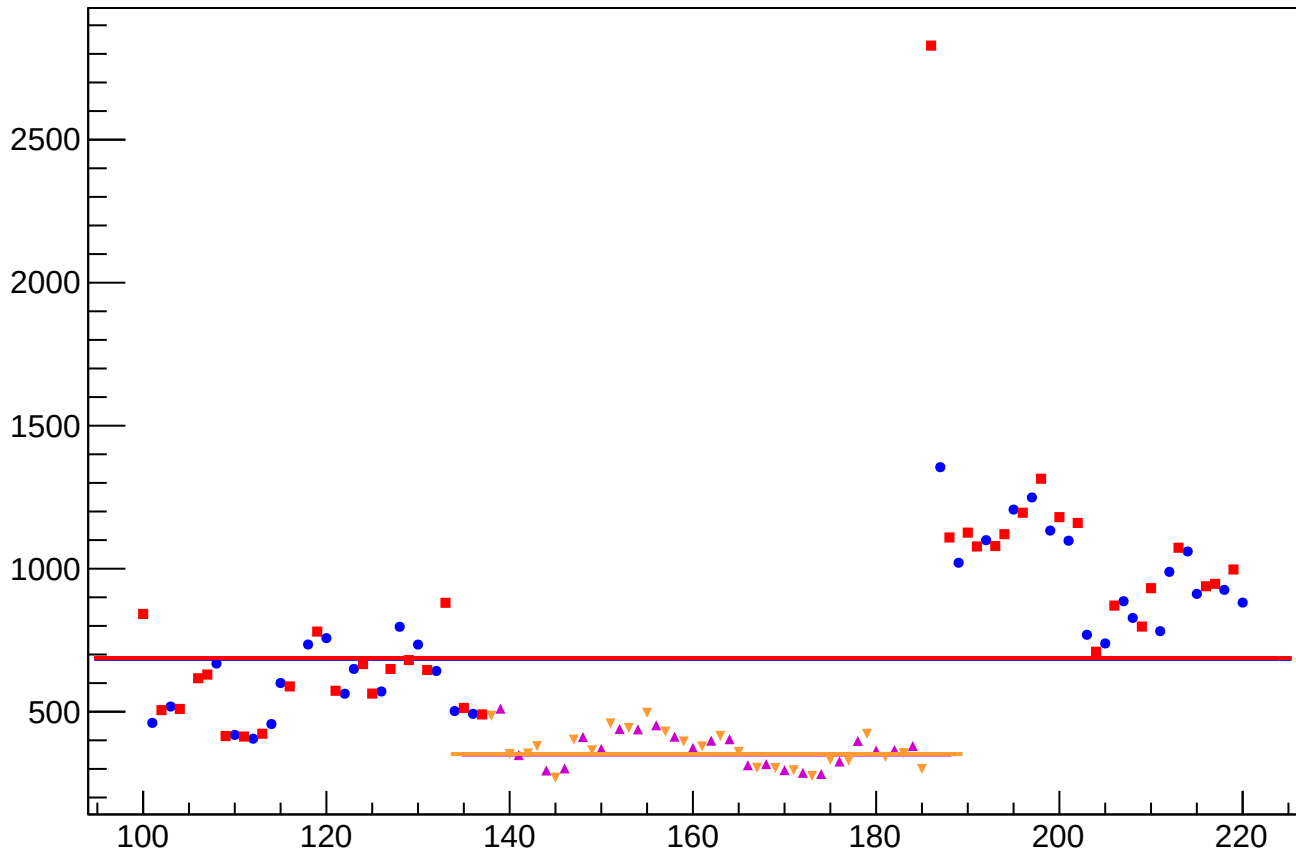
Right: -98.925 $\pm$ 117.965 χ^2 /NDF: 136.9/70

In: 87.924 $\pm$ 75.762 χ^2 /NDF:86.5/56

Out: 225.685 $\pm$ 74.541 χ^2 /NDF:155.6/61

All: 157.924 $\pm$ 53.135 χ^2 /NDF: 243.8/118

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 684.788 $\pm$ 0.118 χ^2 /NDF: 3911989.6/33

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 687.820 $\pm$ 0.118 χ^2 /NDF: 4915586.1/36

Left In: 350.160 $\pm$ 0.060 χ^2 /NDF: 878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2 /NDF: 1896060.8/47

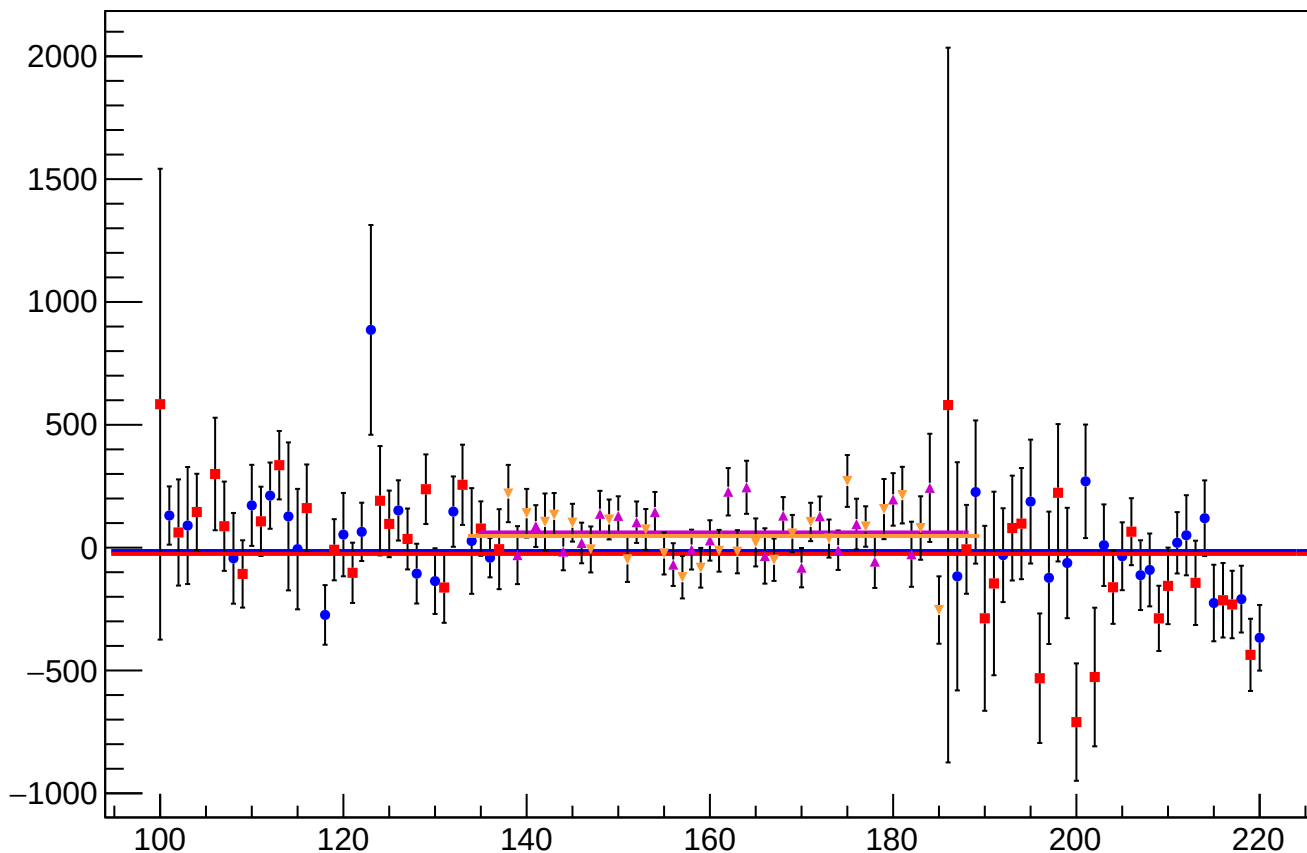
Right: 686.301 $\pm$ 0.083 χ^2 /NDF: 8827906.0/70

In: 419.338 $\pm$ 0.054 χ^2 /NDF: 11188755.4/56

Out: 418.896 $\pm$ 0.053 χ^2 /NDF: 12406867.6/61

All: 419.113 $\pm$ 0.038 χ^2 /NDF: 23595657.7/117

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -13.730 ± 26.497 χ^2/NDF : 36.0/33

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: -25.507 ± 27.284 χ^2/NDF : 59.0/36

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

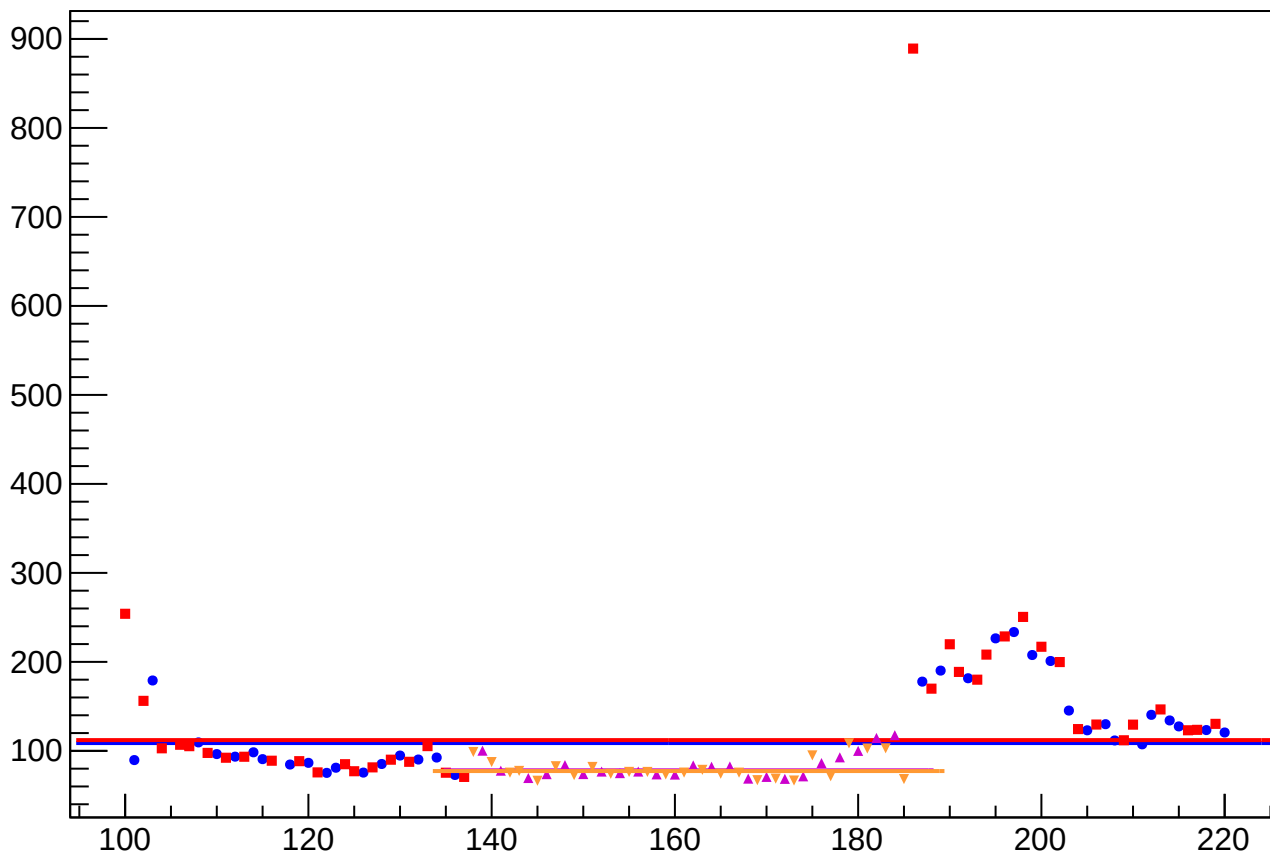
Right: -19.446 ± 19.008 χ^2/NDF : 95.1/70

In: 36.247 ± 15.418 χ^2/NDF : 65.4/56

Out: 24.877 ± 15.171 χ^2/NDF : 93.3/61

All: 30.470 ± 10.814 χ^2/NDF : 158.9/118

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 108.776 $\pm$ 0.019 χ^2 /NDF: 3671388.8/33

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 112.093 $\pm$ 0.019 χ^2 /NDF: 4513124.0/36

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF:582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

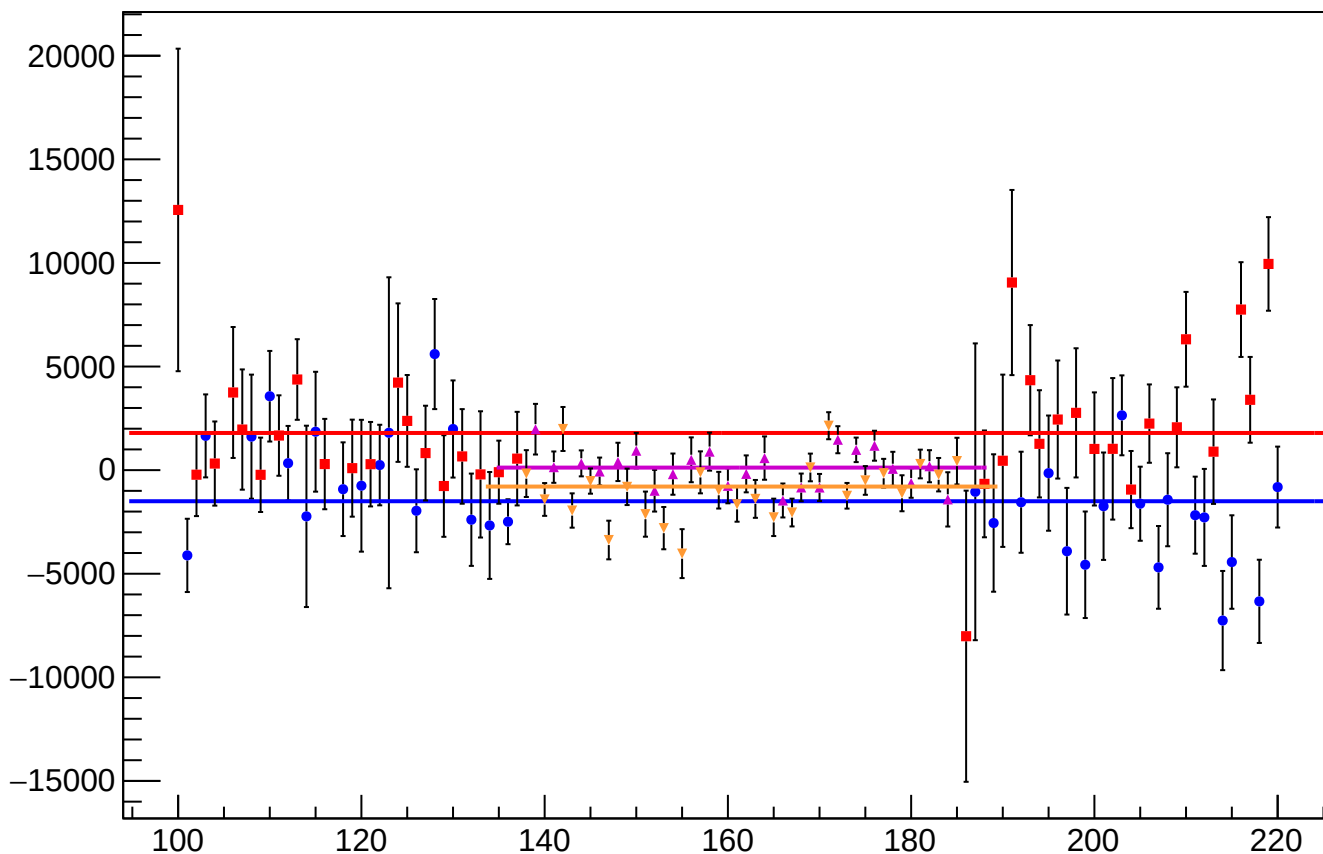
Right: 110.386 $\pm$ 0.013 χ^2 /NDF: 8199726.5/70

In: 88.512 $\pm$ 0.011 χ^2 /NDF:6022087.3/56

Out: 88.068 $\pm$ 0.011 χ^2 /NDF:7393480.6/61

All: 88.287 $\pm$ 0.008 χ^2 /NDF: 13416408.8/118

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1500.586 ± 380.062 $\chi^2/\text{NDF}: 48.5/33$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1793.999 ± 389.842 $\chi^2/\text{NDF}: 46.2/36$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

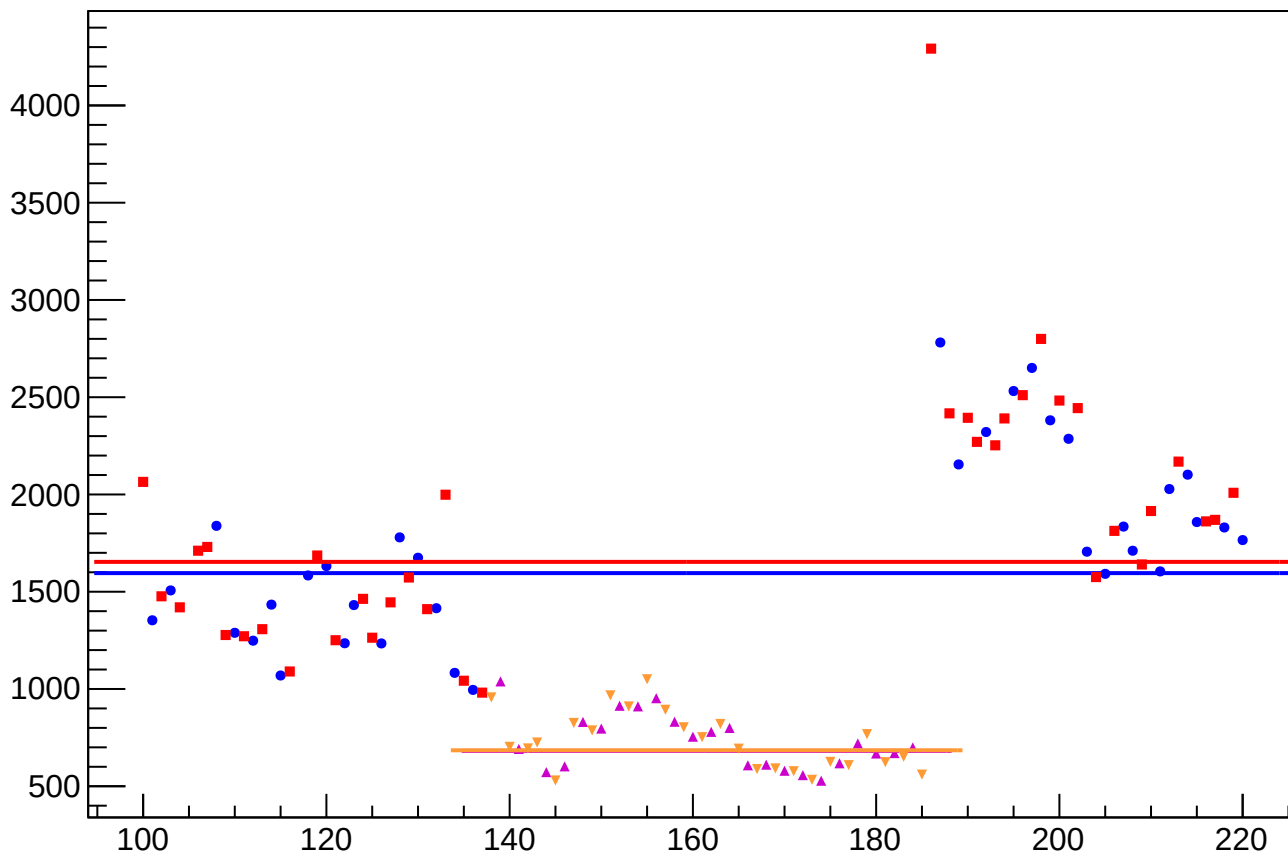
Right: 104.860 ± 272.136 $\chi^2/\text{NDF}: 131.3/70$

In: -138.292 ± 152.272 $\chi^2/\text{NDF}: 89.7/56$

Out: -409.215 ± 150.116 $\chi^2/\text{NDF}: 150.3/61$

All: -275.685 ± 106.902 $\chi^2/\text{NDF}: 241.7/118$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1595.696 ± 0.269 $\chi^2/\text{NDF}: 2440370.6/33$

Left Out: 684.785 ± 0.115 $\chi^2/\text{NDF}: 1280146.2/24$

Right Out: 1653.482 ± 0.276 $\chi^2/\text{NDF}: 2905605.9/36$

Left In: 681.712 ± 0.118 $\chi^2/\text{NDF}: 1119637.0/22$

Left: 683.282 ± 0.082 $\chi^2/\text{NDF}: 2400132.5/47$

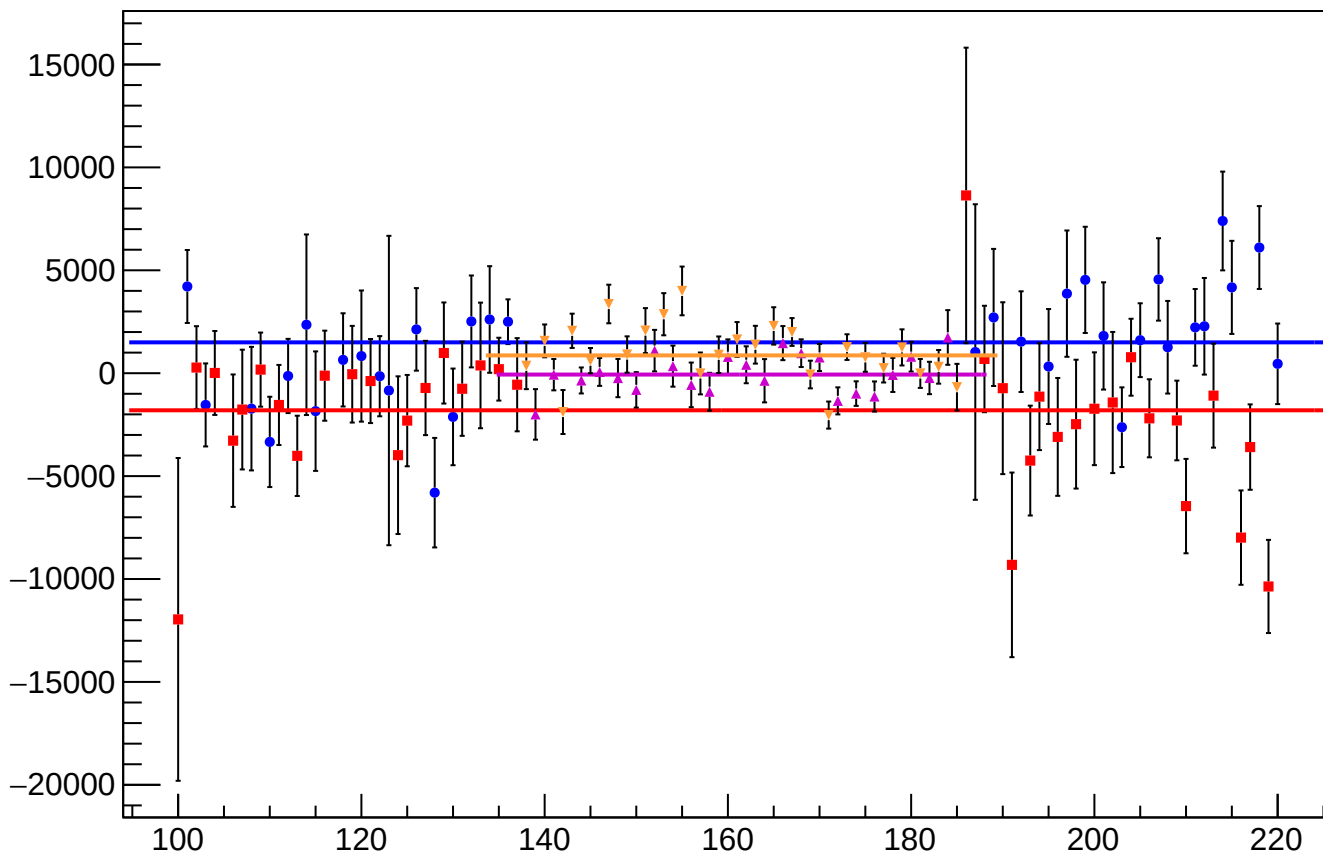
Right: 1623.855 ± 0.192 $\chi^2/\text{NDF}: 5368507.0/70$

In: 828.425 ± 0.108 $\chi^2/\text{NDF}: 13269782.9/56$

Out: 828.421 ± 0.106 $\chi^2/\text{NDF}: 14703590.9/61$

All: 828.423 ± 0.076 $\chi^2/\text{NDF}: 27973373.9/117$

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1498.680 $\pm$ 381.177 χ^2 /NDF: 47.5/33

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1802.297 $\pm$ 391.113 χ^2 /NDF: 48.1/36

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF:26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

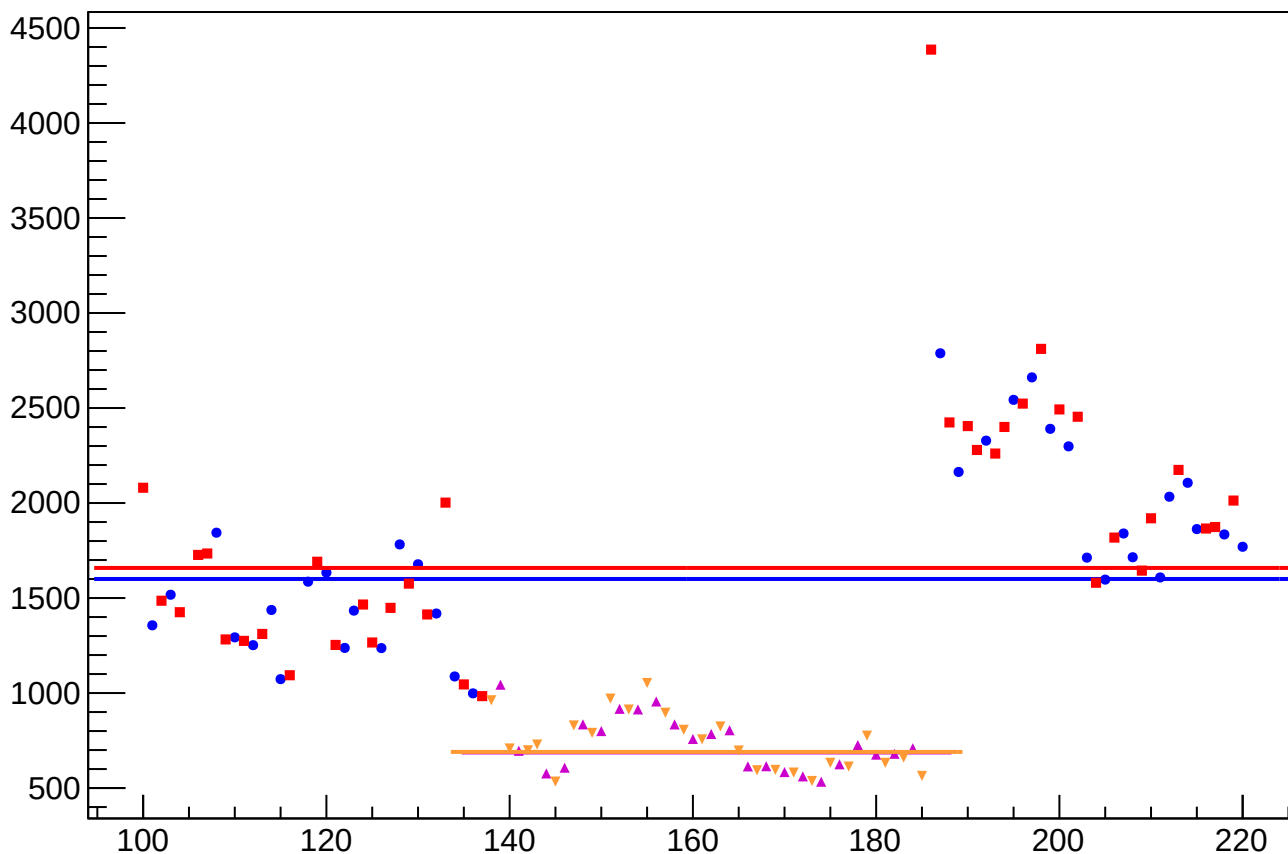
Right: -109.345 $\pm$ 272.978 χ^2 /NDF: 132.1/70

In: 187.261 $\pm$ 153.336 χ^2 /NDF:88.0/56

Out: 467.130 $\pm$ 151.152 χ^2 /NDF:150.6/61

All: 329.202 $\pm$ 107.644 χ^2 /NDF: 240.3/118

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1600.318 $\pm$ 0.270 χ^2 /NDF: 2443243.5/33

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1658.392 $\pm$ 0.277 χ^2 /NDF: 2916786.8/36

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

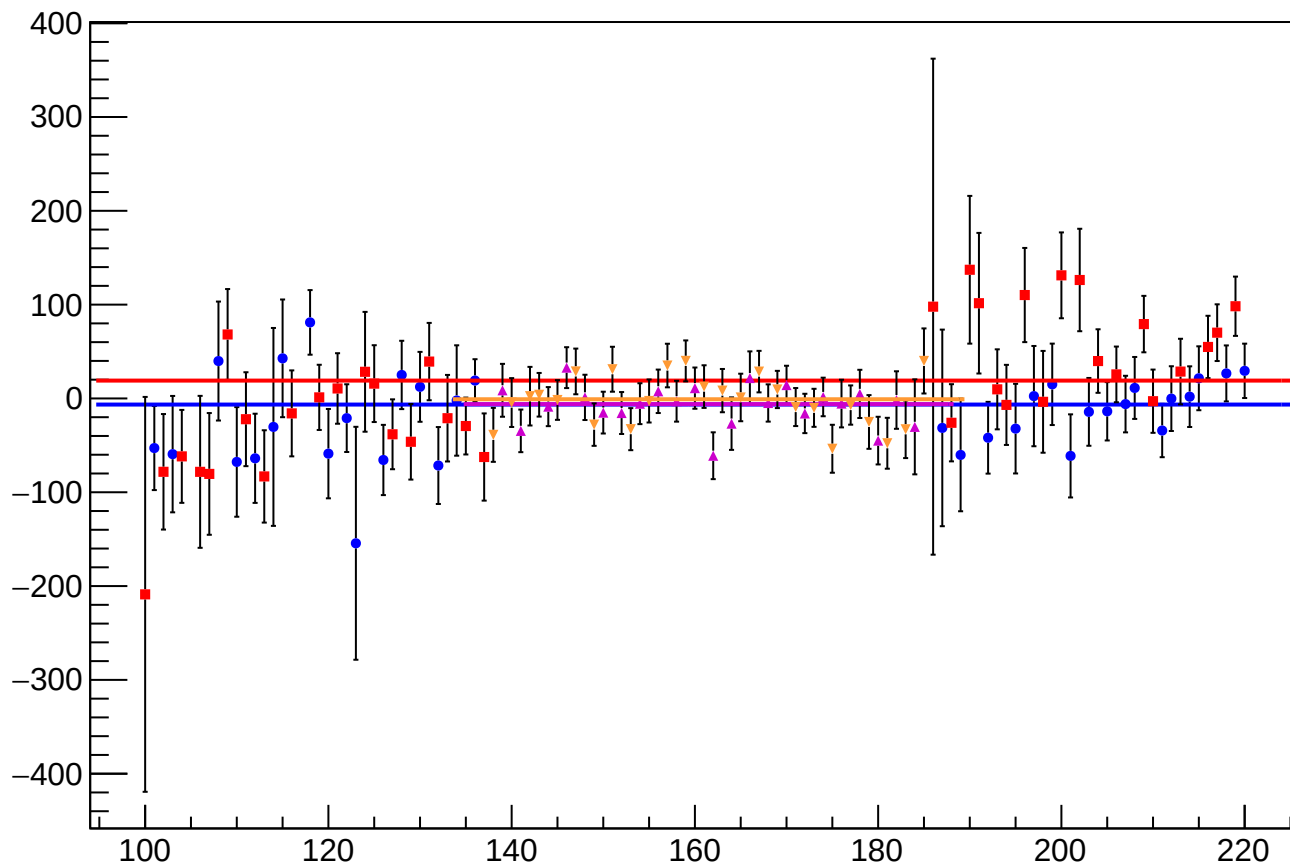
Right: 1628.608 $\pm$ 0.193 χ^2 /NDF: 5382645.0/70

In: 834.975 $\pm$ 0.108 χ^2 /NDF: 13162456.4/56

Out: 834.777 $\pm$ 0.107 χ^2 /NDF: 14601158.5/61

All: 834.875 $\pm$ 0.076 χ^2 /NDF: 27763616.6/117

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -6.522 ± 6.725 χ^2/NDF : 30.8/33

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 19.025 ± 6.980 χ^2/NDF : 62.4/36

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

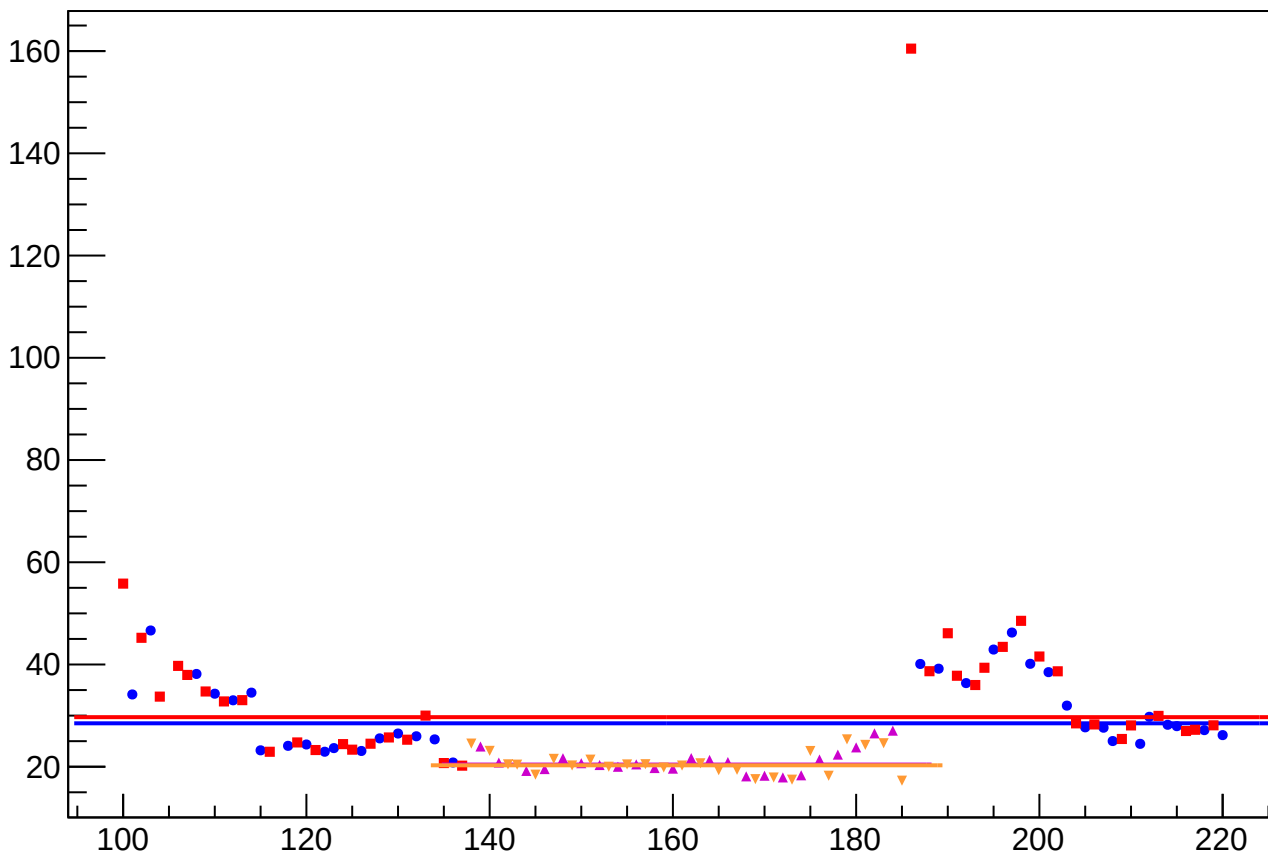
Right: 5.777 ± 4.843 χ^2/NDF : 100.1/70

In: -6.210 ± 3.974 χ^2/NDF : 47.7/56

Out: 5.452 ± 3.933 χ^2/NDF : 95.9/61

All: -0.318 ± 2.795 χ^2/NDF : 147.9/118

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.494+/-0.005 χ^2/NDF : 1632195.5/33

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.697+/-0.005 χ^2/NDF : 2322077.1/36

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

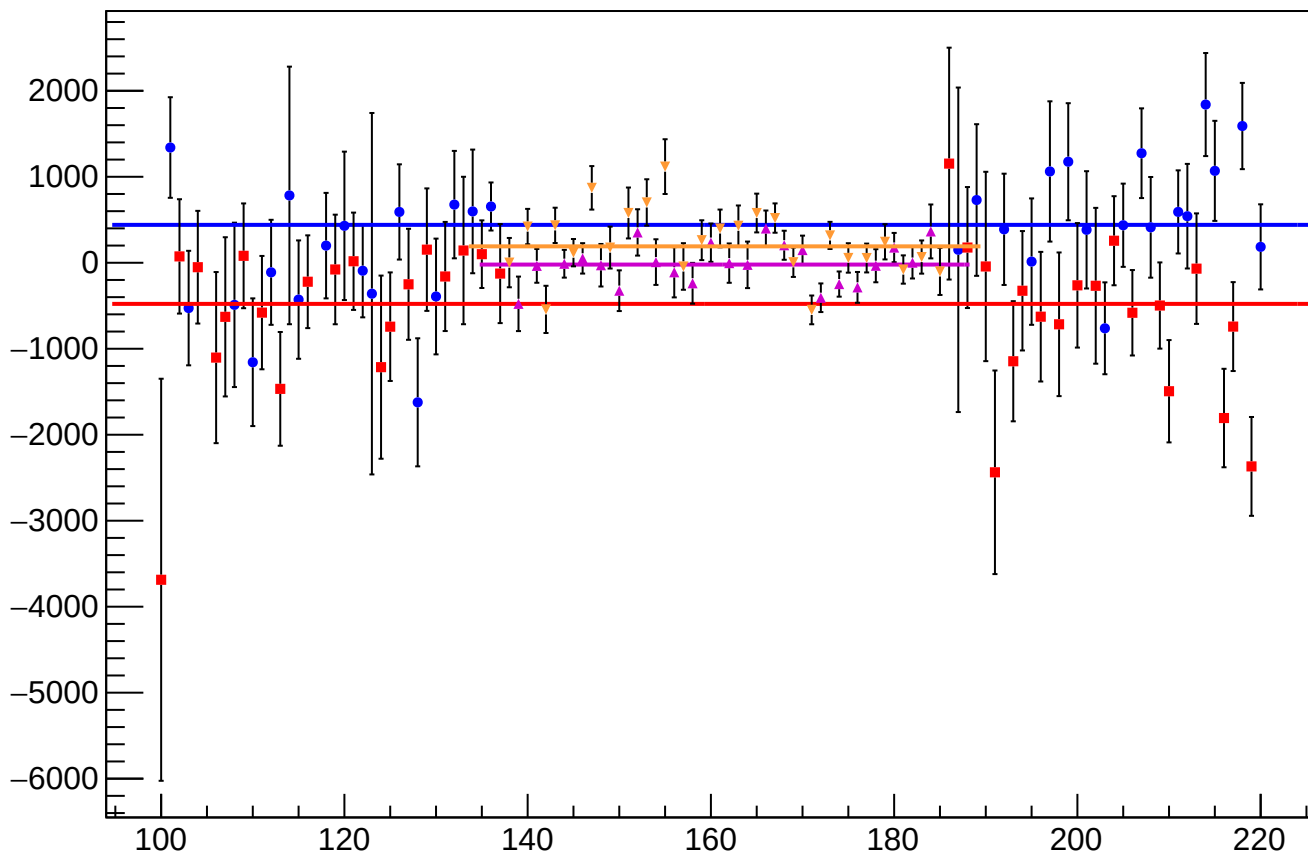
Right: 29.073+/-0.003 χ^2/NDF : 3985113.2/70

In: 23.241+/-0.003 χ^2/NDF : 3830215.7/56

Out: 23.269+/-0.003 χ^2/NDF : 5214671.4/61

All: 23.255+/-0.002 χ^2/NDF : 9044937.7/118

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 440.766 $\pm$ 104.095 χ^2 /NDF: 46.0/33

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -478.240 $\pm$ 108.020 χ^2 /NDF: 41.1/36

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

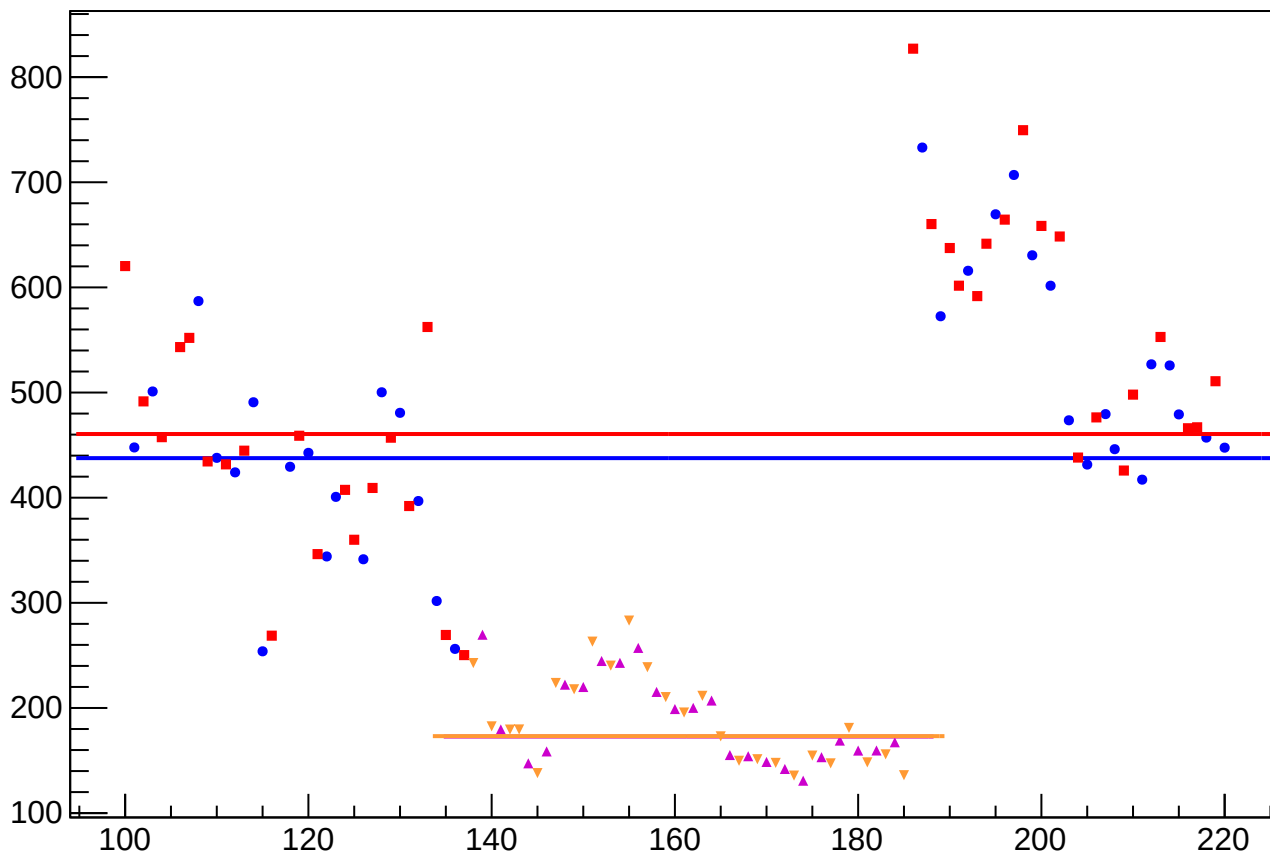
Right: -1.738 $\pm$ 74.955 χ^2 /NDF: 124.5/70

In: 44.421 $\pm$ 39.181 χ^2 /NDF: 90.6/56

Out: 105.480 $\pm$ 38.588 χ^2 /NDF: 142.4/61

All: 75.416 $\pm$ 27.493 χ^2 /NDF: 234.2/118

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 437.621+/-0.074 χ^2/NDF : 2347686.0/33

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 460.551+/-0.076 χ^2/NDF : 2545073.7/36

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

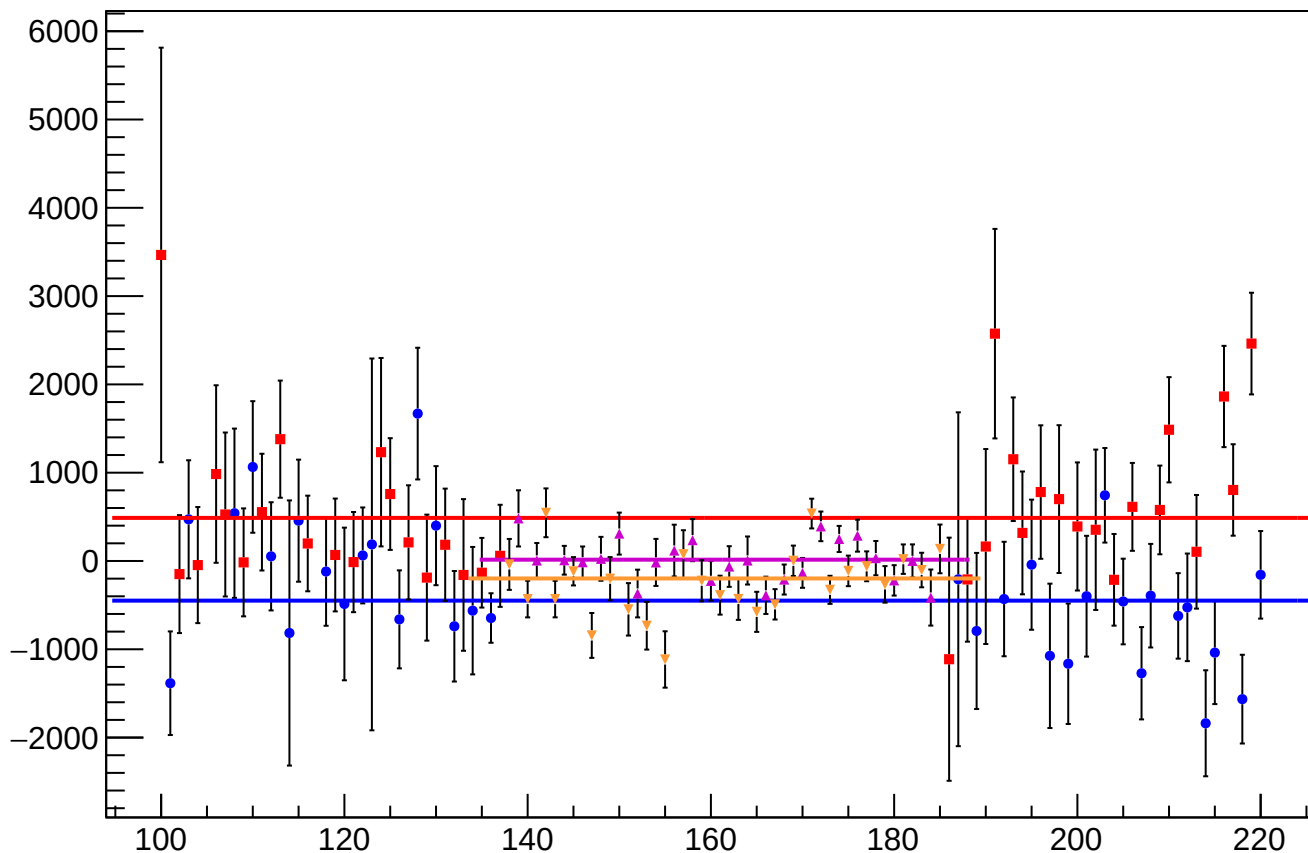
Right: 448.662+/-0.053 χ^2/NDF : 4939488.9/70

In: 210.342+/-0.028 χ^2/NDF :14827904.7/56

Out: 209.879+/-0.027 χ^2/NDF :16452444.5/61

All: 210.107+/-0.019 χ^2/NDF : 31280491.0/11

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -449.043 $\pm$ 104.348 χ^2/NDF : 45.3/33

Left Out: -197.918 $\pm$ 41.638 χ^2/NDF : 64.3/24

Right Out: 487.951 $\pm$ 108.301 χ^2/NDF : 42.7/36

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

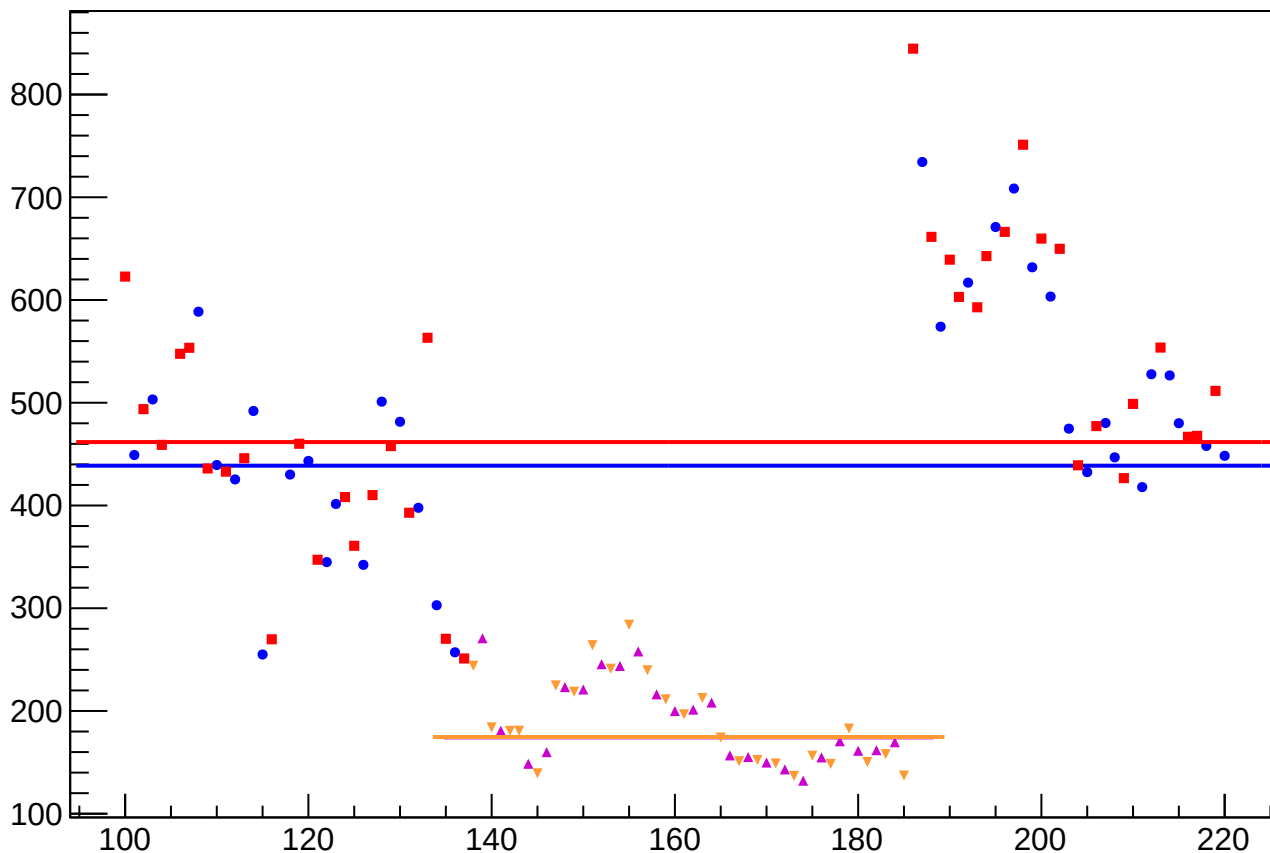
Right: 2.040 $\pm$ 75.144 χ^2/NDF : 126.8/70

In: -51.701 $\pm$ 39.463 χ^2/NDF : 89.9/56

Out: -109.592 $\pm$ 38.865 χ^2/NDF : 141.9/61

All: -81.089 $\pm$ 27.691 χ^2/NDF : 232.9/118

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 438.737 $\pm$ 0.074 χ^2/NDF : 2339869.9/33

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 461.725 $\pm$ 0.077 χ^2/NDF : 2547187.7/36

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

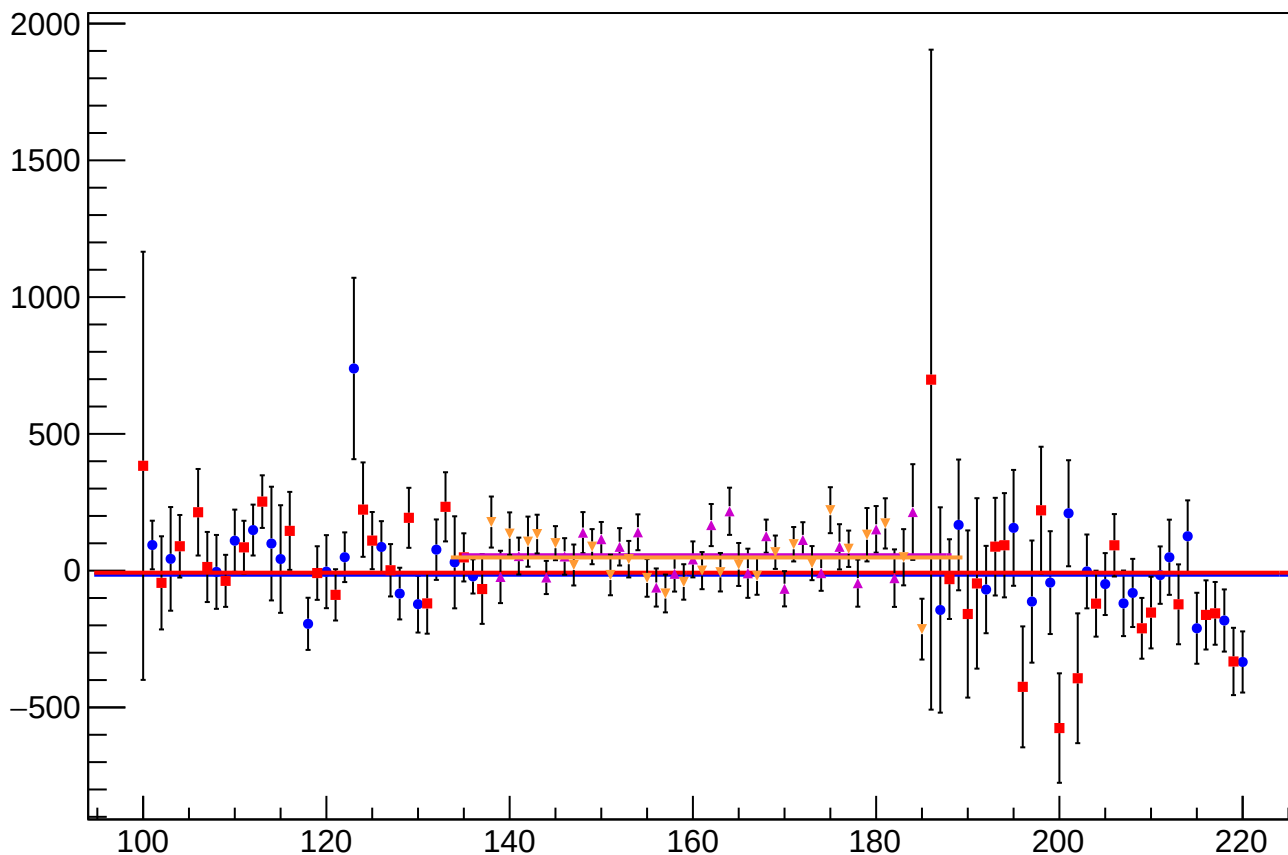
Right: 449.804 $\pm$ 0.053 χ^2/NDF : 4933786.9/70

In: 212.112 $\pm$ 0.028 χ^2/NDF :14692829.6/56

Out: 211.617 $\pm$ 0.027 χ^2/NDF :16322285.2/61

All: 211.861 $\pm$ 0.020 χ^2/NDF : 31015274.0/117

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -14.844 ± 20.924 χ^2/NDF : 37.1/33

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: -7.449 ± 21.305 χ^2/NDF : 58.3/36

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

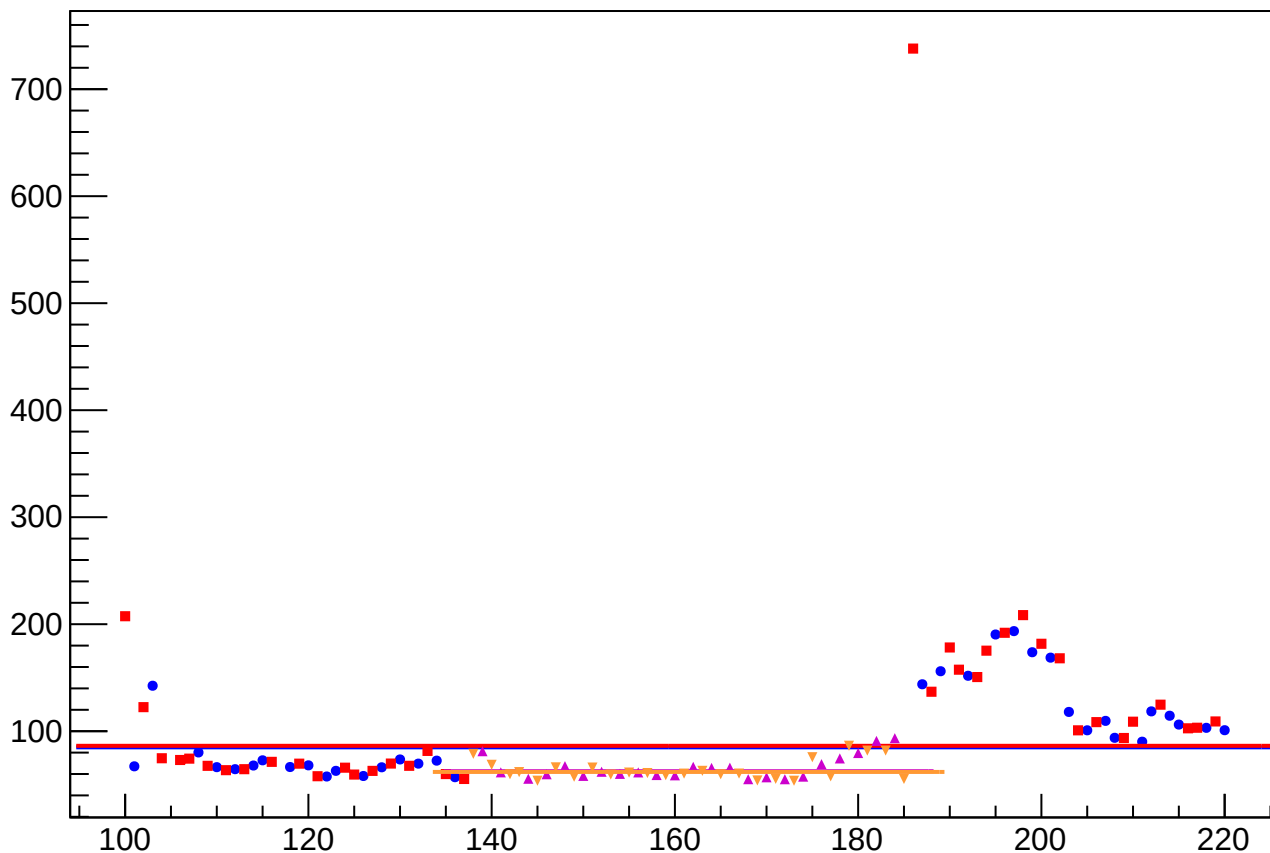
Right: -11.213 ± 14.928 χ^2/NDF : 95.5/70

In: 31.830 ± 12.288 χ^2/NDF : 72.2/56

Out: 30.414 ± 12.052 χ^2/NDF : 92.2/61

All: 31.109 ± 8.604 χ^2/NDF : 164.4/118

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 84.928+/-0.015 χ^2/NDF : 4436596.1/33

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 86.349+/-0.015 χ^2/NDF : 5388418.1/36

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

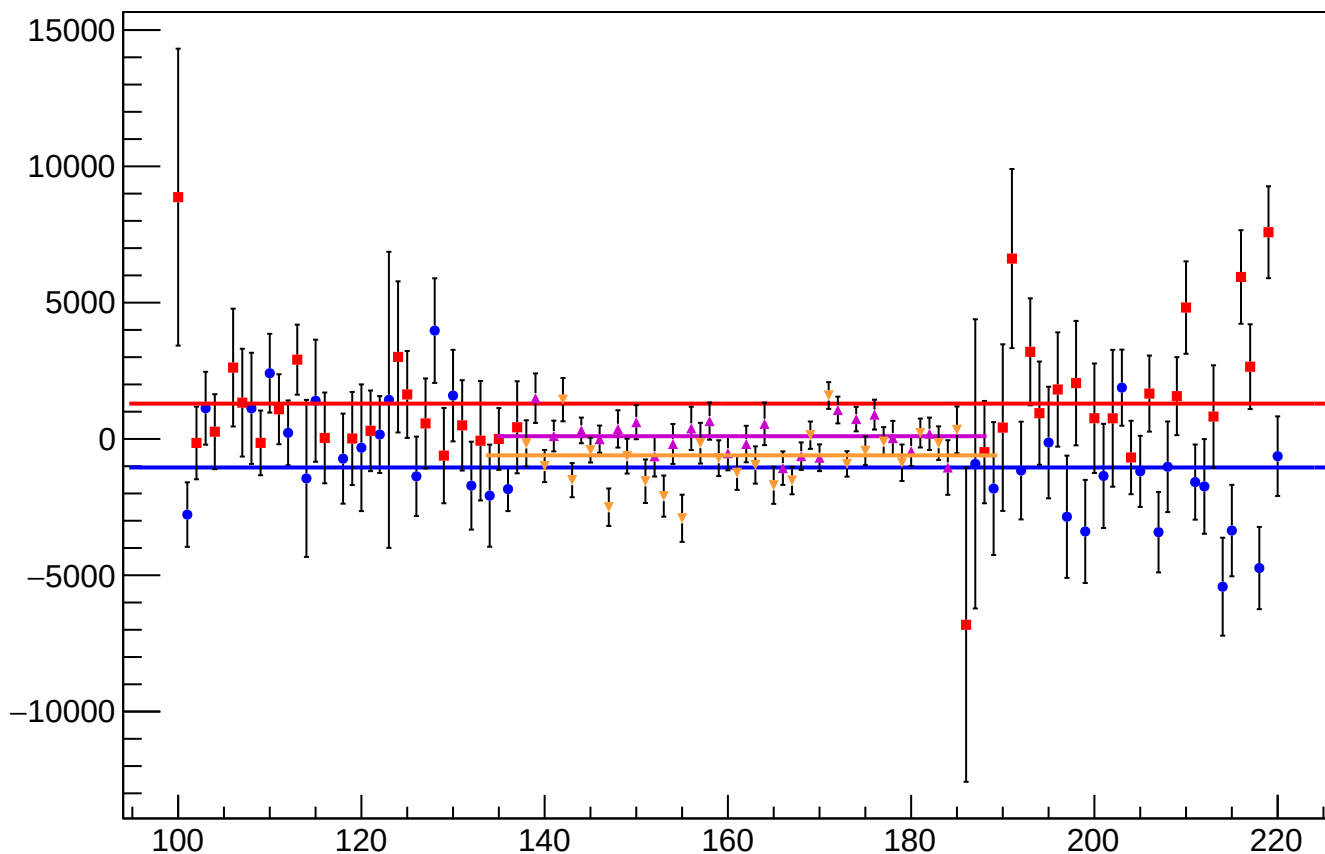
Right: 85.626+/-0.011 χ^2/NDF : 9829544.6/70

In: 70.305+/-0.009 χ^2/NDF : 6503116.6/56

Out: 69.756+/-0.009 χ^2/NDF : 7777566.9/61

All: 70.025+/-0.006 χ^2/NDF : 14282725.0/118

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1046.020 $\pm$ 274.499 χ^2/NDF : 49.6/33

Left Out: -601.486 $\pm$ 122.119 χ^2/NDF : 65.4/24

Right Out: 1296.537 $\pm$ 279.851 χ^2/NDF : 48.2/36

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

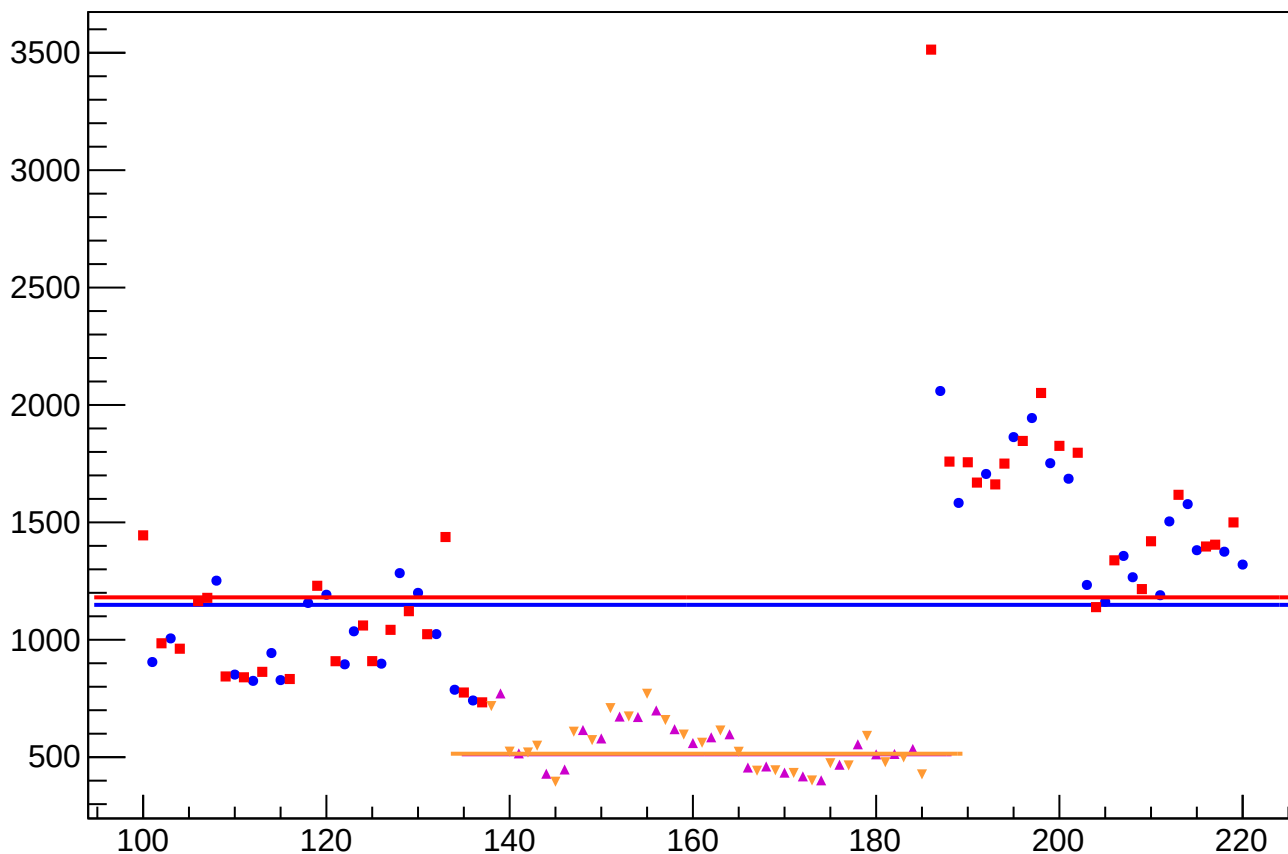
Right: 102.645 $\pm$ 195.965 χ^2/NDF : 133.5/70

In: -95.658 $\pm$ 113.553 χ^2/NDF : 89.5/56

Out: -297.879 $\pm$ 111.926 χ^2/NDF : 152.2/61

All: -198.227 $\pm$ 79.713 χ^2/NDF : 243.3/118

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1148.707+/-0.194 χ^2/NDF : 2670307.2/33

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1180.717+/-0.198 χ^2/NDF : 3274352.1/36

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

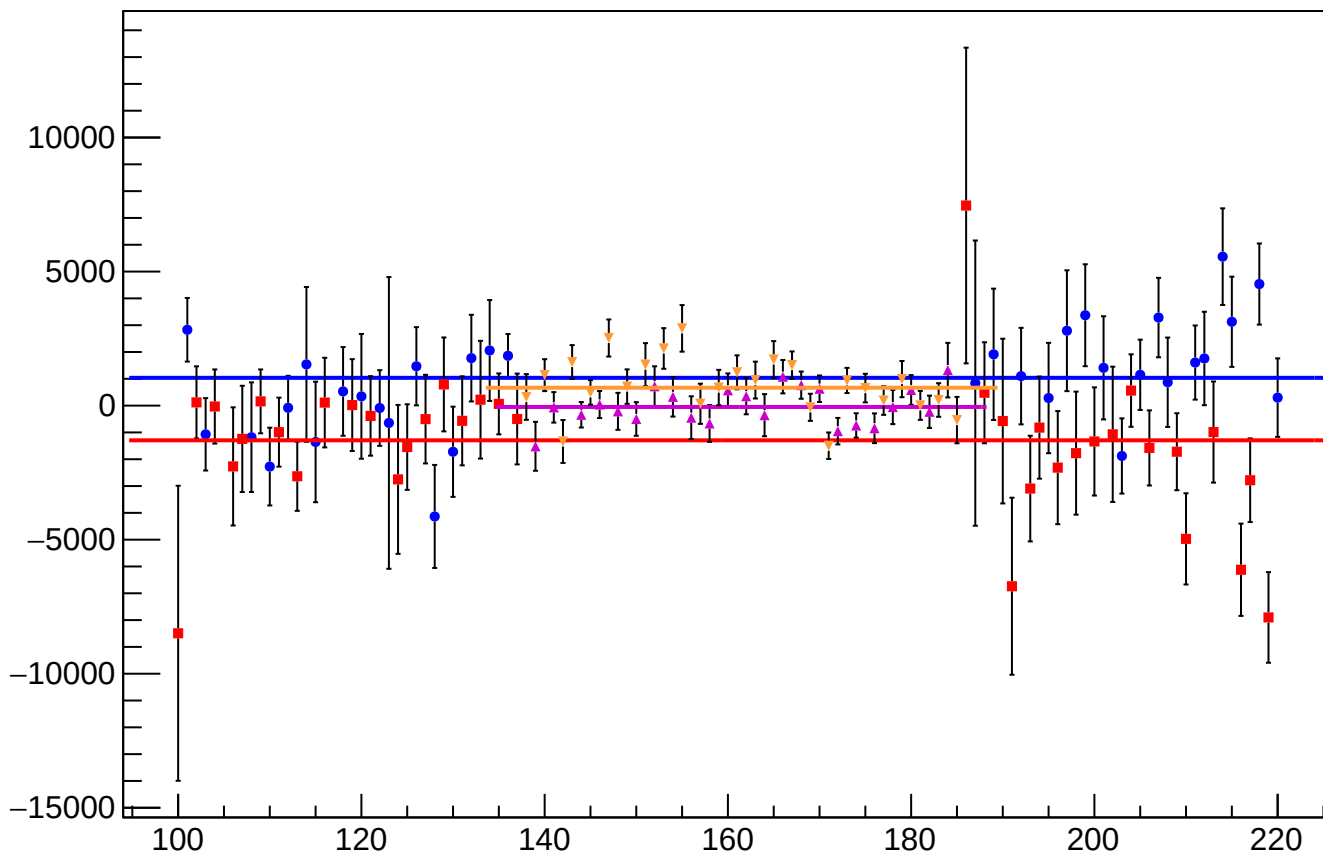
Right: 1164.403+/-0.139 χ^2/NDF : 5957995.5/70

In: 621.121+/-0.080 χ^2/NDF : 12625029.7/56

Out: 621.284+/-0.079 χ^2/NDF : 13983487.5/61

All: 621.204+/-0.056 χ^2/NDF : 26608519.3/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1036.745 $\pm$ 275.491 χ^2 /NDF: 48.4/33

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -1294.397 $\pm$ 280.967 χ^2 /NDF: 50.2/36

Left In: -50.079 $\pm$ 125.805 χ^2 /NDF:26.1/22

Left: 316.439 $\pm$ 88.002 χ^2 /NDF: 104.2/47

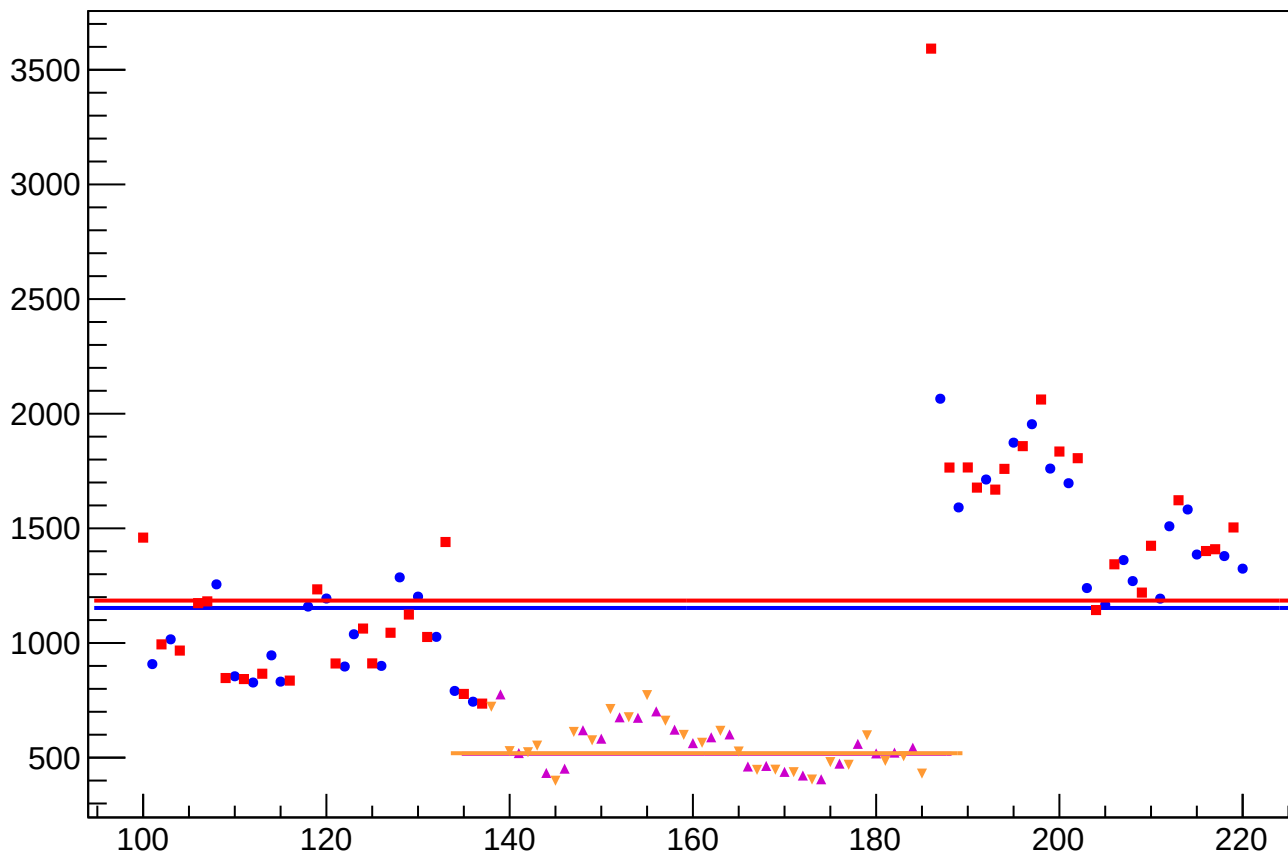
Right: -105.884 $\pm$ 196.709 χ^2 /NDF: 133.8/70

In: 137.456 $\pm$ 114.437 χ^2 /NDF:87.4/56

Out: 351.457 $\pm$ 112.788 χ^2 /NDF:152.6/61

All: 246.010 $\pm$ 80.330 χ^2 /NDF: 241.8/118

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1152.771 $\pm$ 0.195 χ^2 /NDF: 2675688.7/33

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1184.998 $\pm$ 0.199 χ^2 /NDF: 3287153.1/36

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

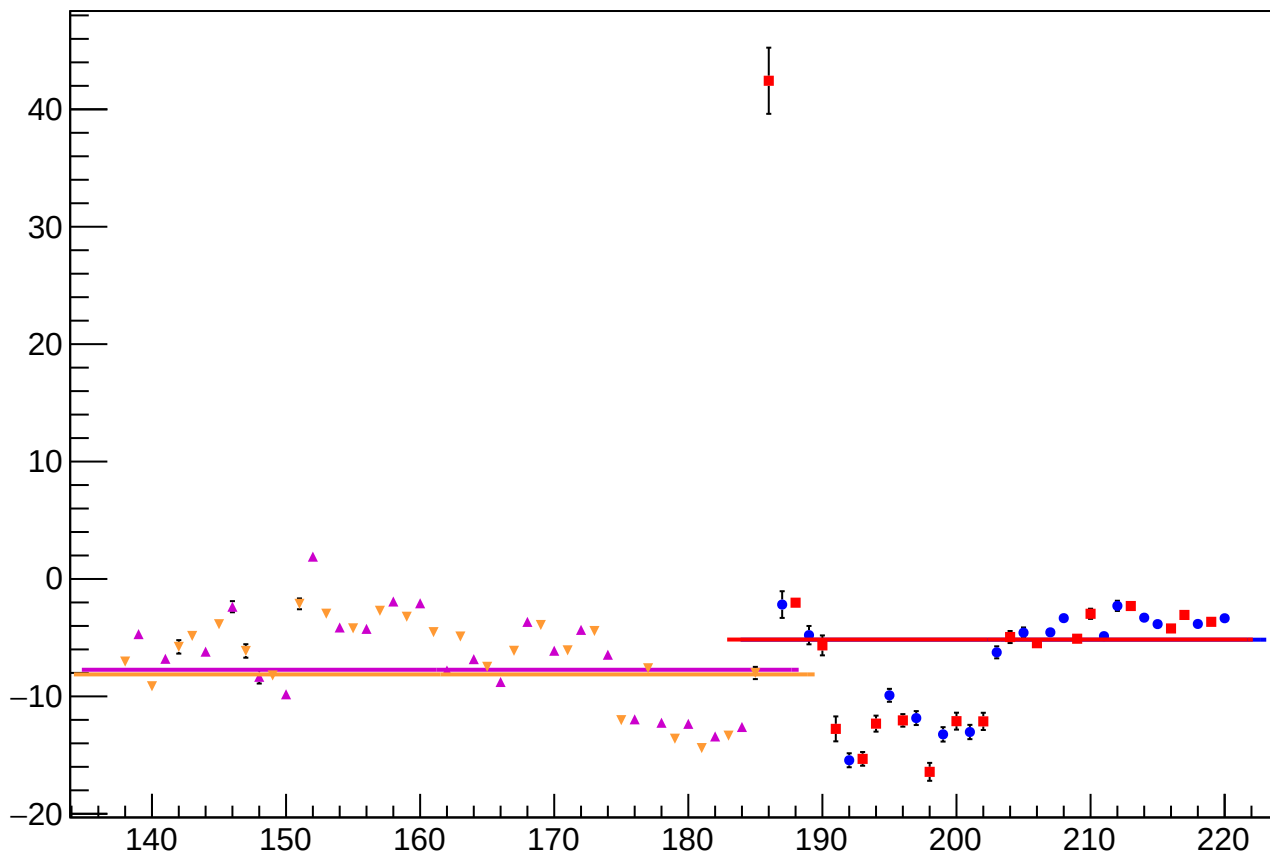
Right: 1168.567 $\pm$ 0.139 χ^2 /NDF: 5976256.9/70

In: 626.532 $\pm$ 0.081 χ^2 /NDF:12516530.0/56

Out: 626.534 $\pm$ 0.080 χ^2 /NDF:13878898.2/61

All: 626.533 $\pm$ 0.057 χ^2 /NDF: 26395428.1/117

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected

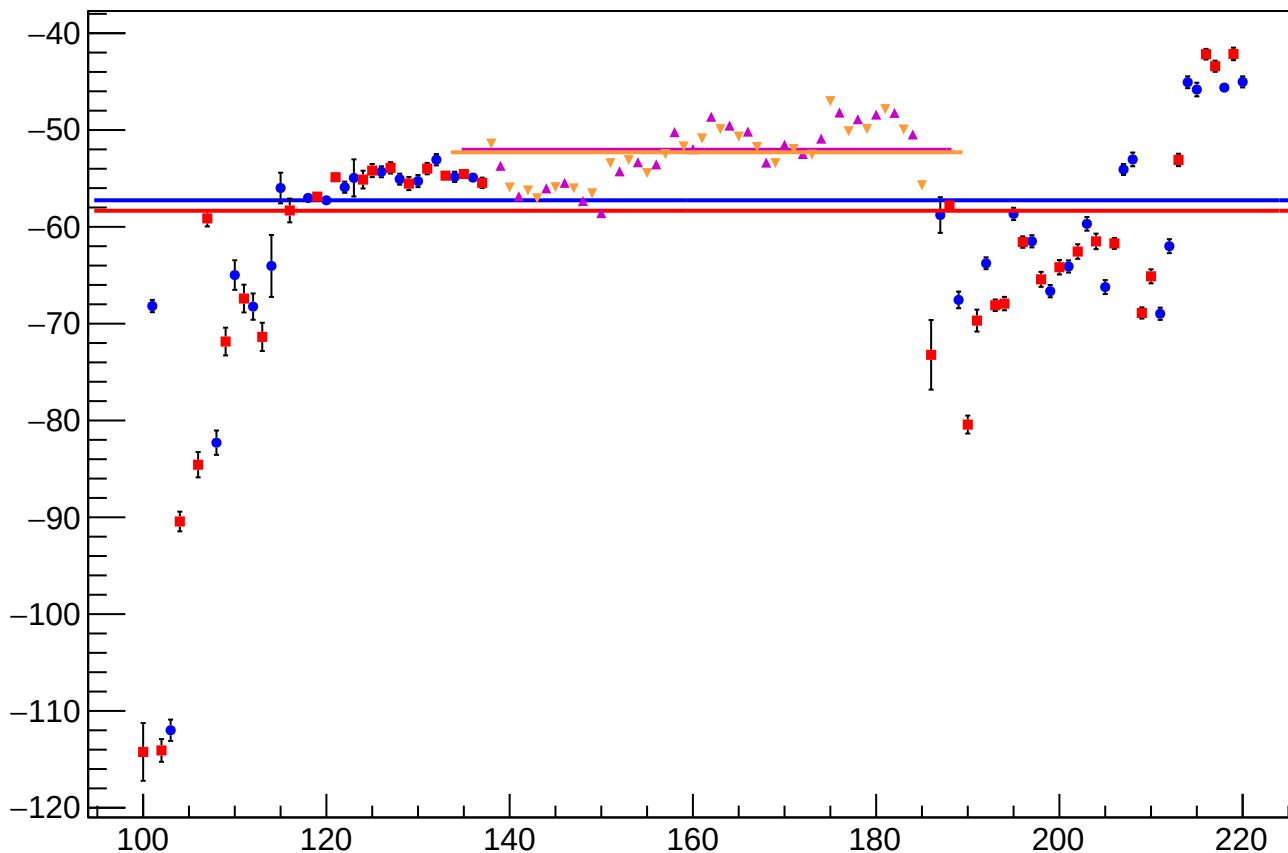


Right In: -5.171 ± 0.102 $\chi^2/\text{NDF}: 1033.5/16$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -5.159 ± 0.103 $\chi^2/\text{NDF}: 1595.2/17$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: -5.165 ± 0.072 $\chi^2/\text{NDF}: 2628.7/34$
 In: -6.928 ± 0.057 $\chi^2/\text{NDF}: 5187.3/39$
 Out: -7.238 ± 0.056 $\chi^2/\text{NDF}: 5811.7/42$

All: -7.085 ± 0.040 $\chi^2/\text{NDF}: 11014.1/82$

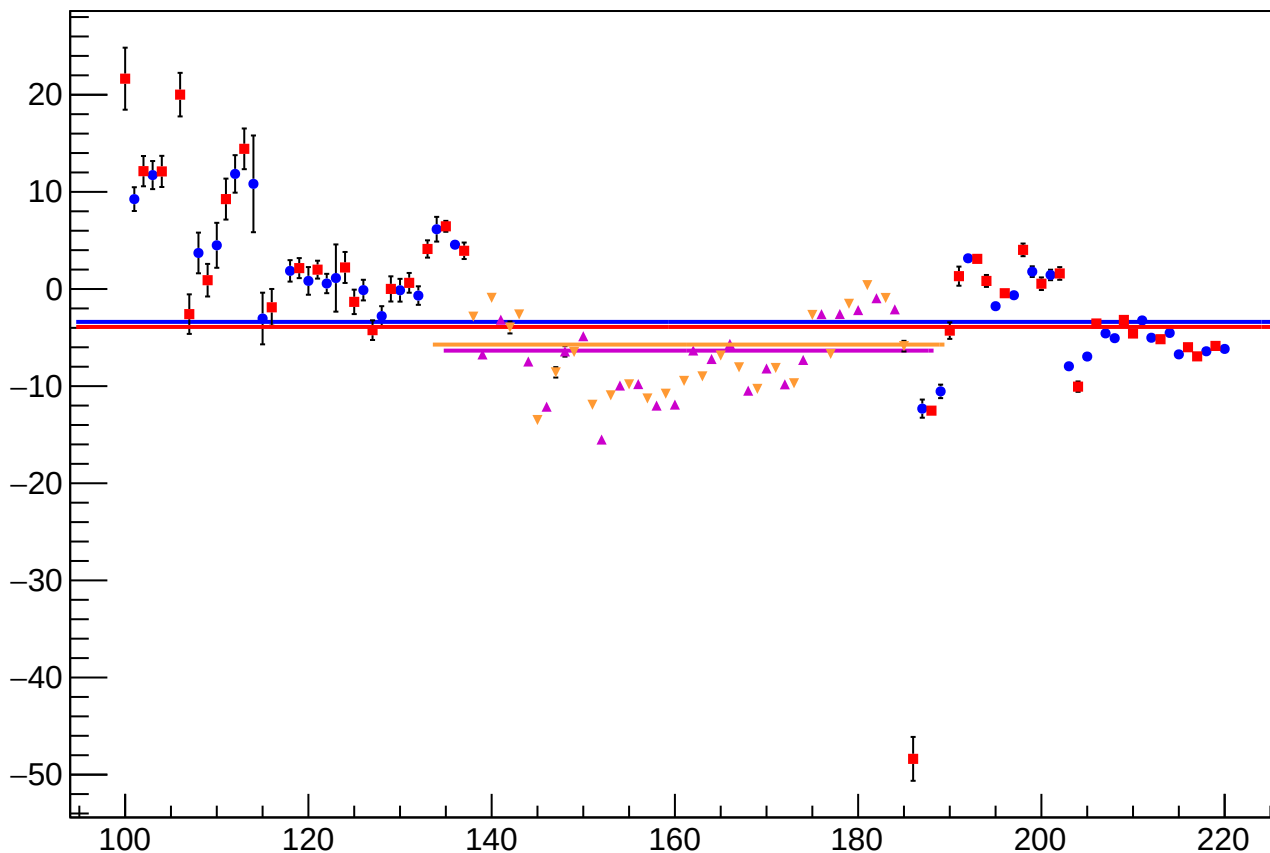
reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.258+/-0.106 χ^2/NDF : 6445.8/33
 Left Out: -52.297+/-0.055 χ^2/NDF : 2657.5/24
 Right Out: -58.337+/-0.106 χ^2/NDF : 8784.2/36
 Left In: -52.038+/-0.057 χ^2/NDF : 3180.4/22

Left: -52.172+/-0.040 χ^2/NDF : 5848.6/47
 Right: -57.797+/-0.075 χ^2/NDF : 15281.5/70
 In: -53.211+/-0.050 χ^2/NDF : 11500.0/56
 Out: -53.575+/-0.049 χ^2/NDF : 13987.7/61
 All: -53.398+/-0.035 χ^2/NDF : 25514.7/118

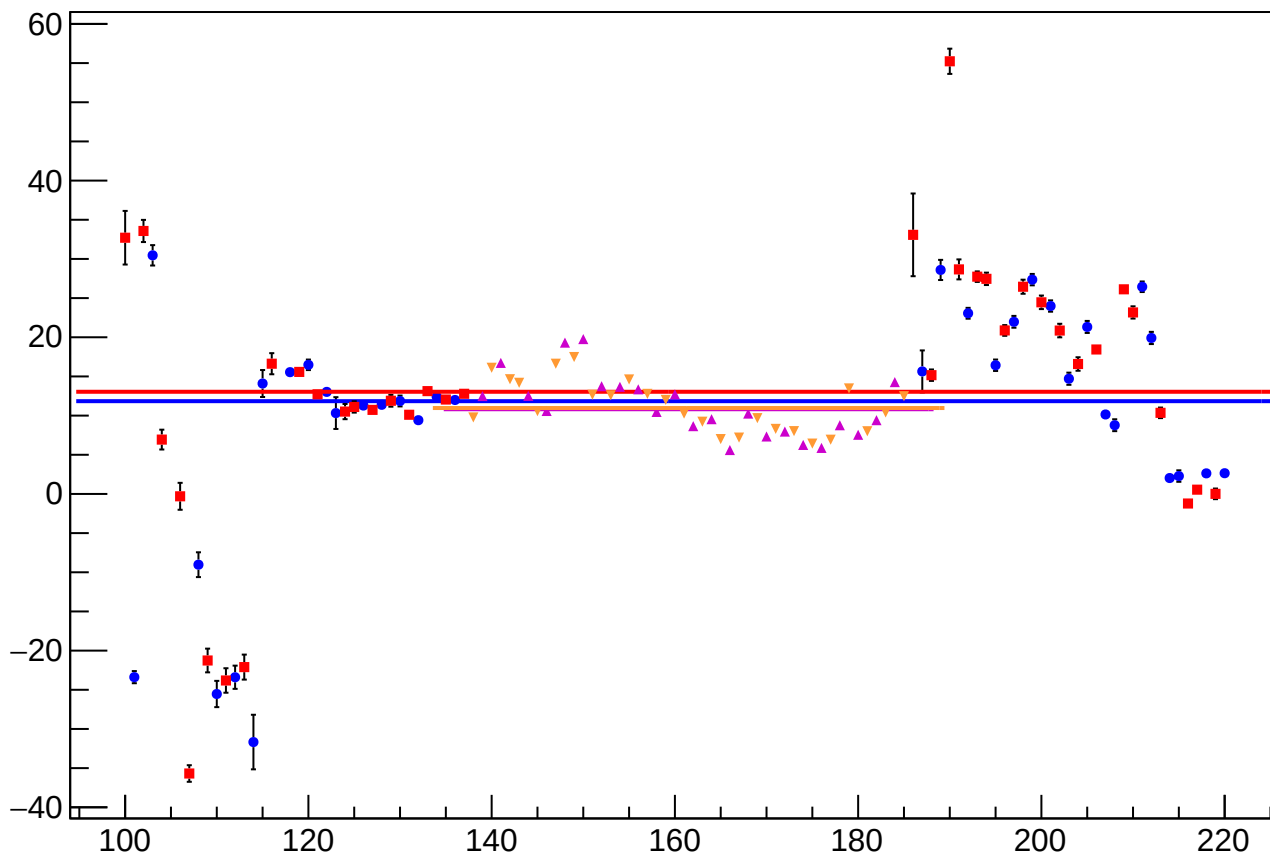
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.386 ± 0.096 $\chi^2/\text{NDF}: 1826.1/33$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -3.905 ± 0.096 $\chi^2/\text{NDF}: 3434.5/36$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -3.645 ± 0.068 $\chi^2/\text{NDF}: 5275.3/70$
 In: -5.342 ± 0.056 $\chi^2/\text{NDF}: 5839.3/56$
 Out: -5.121 ± 0.055 $\chi^2/\text{NDF}: 7656.6/61$
 All: -5.230 ± 0.039 $\chi^2/\text{NDF}: 13503.8/118$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.842 $\pm$ 0.117 χ^2 /NDF: 6922.5/33

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.044 $\pm$ 0.119 χ^2 /NDF: 8536.6/36

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

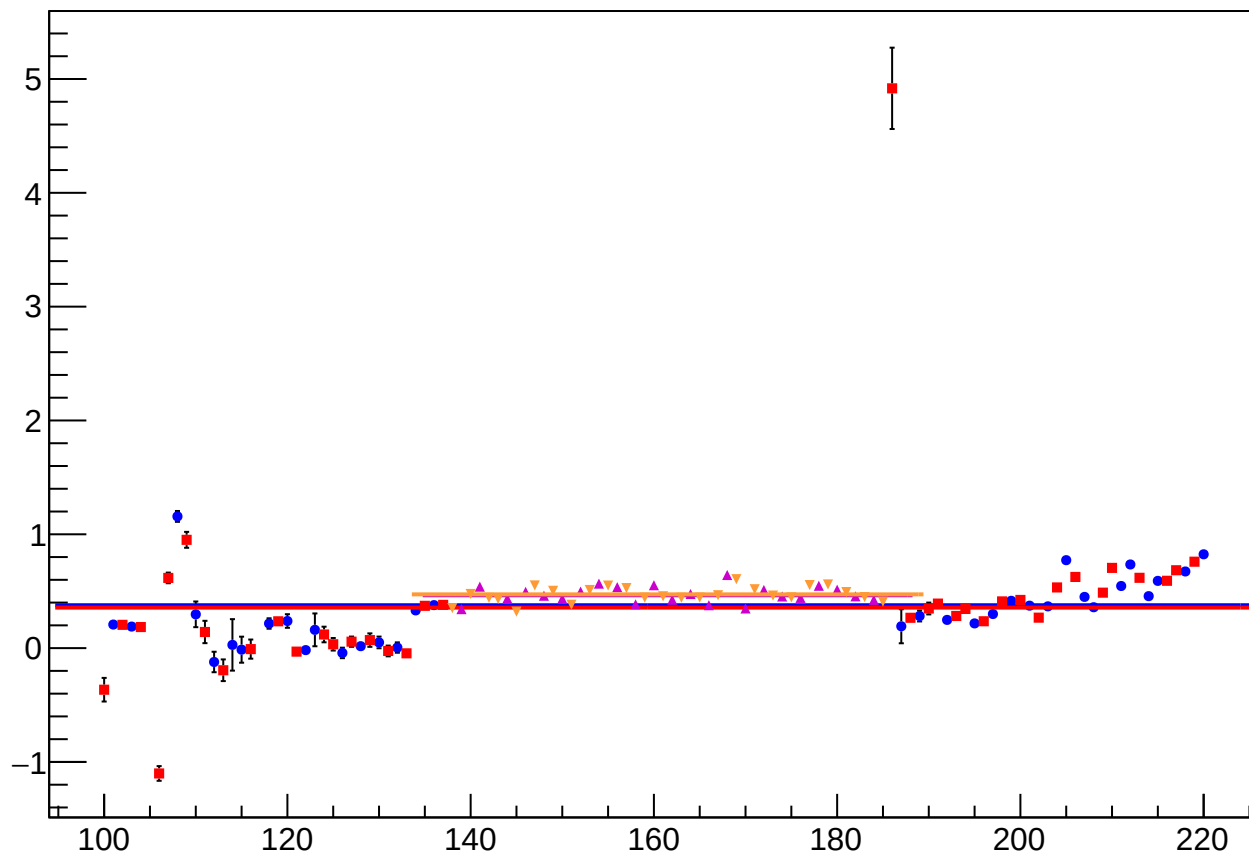
Right: 12.432 $\pm$ 0.084 χ^2 /NDF: 15510.7/70

In: 11.045 $\pm$ 0.056 χ^2 /NDF: 10529.2/56

Out: 11.402 $\pm$ 0.055 χ^2 /NDF: 11414.0/61

All: 11.227 $\pm$ 0.039 χ^2 /NDF: 21964.2/118

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.377+/-0.005 χ^2/NDF : 1399.5/33

Left Out: 0.472+/-0.003 χ^2/NDF : 519.0/24

Right Out: 0.356+/-0.005 χ^2/NDF : 1977.7/36

Left In: 0.464+/-0.003 χ^2/NDF : 733.1/22

Left: 0.468+/-0.002 χ^2/NDF : 1256.2/47

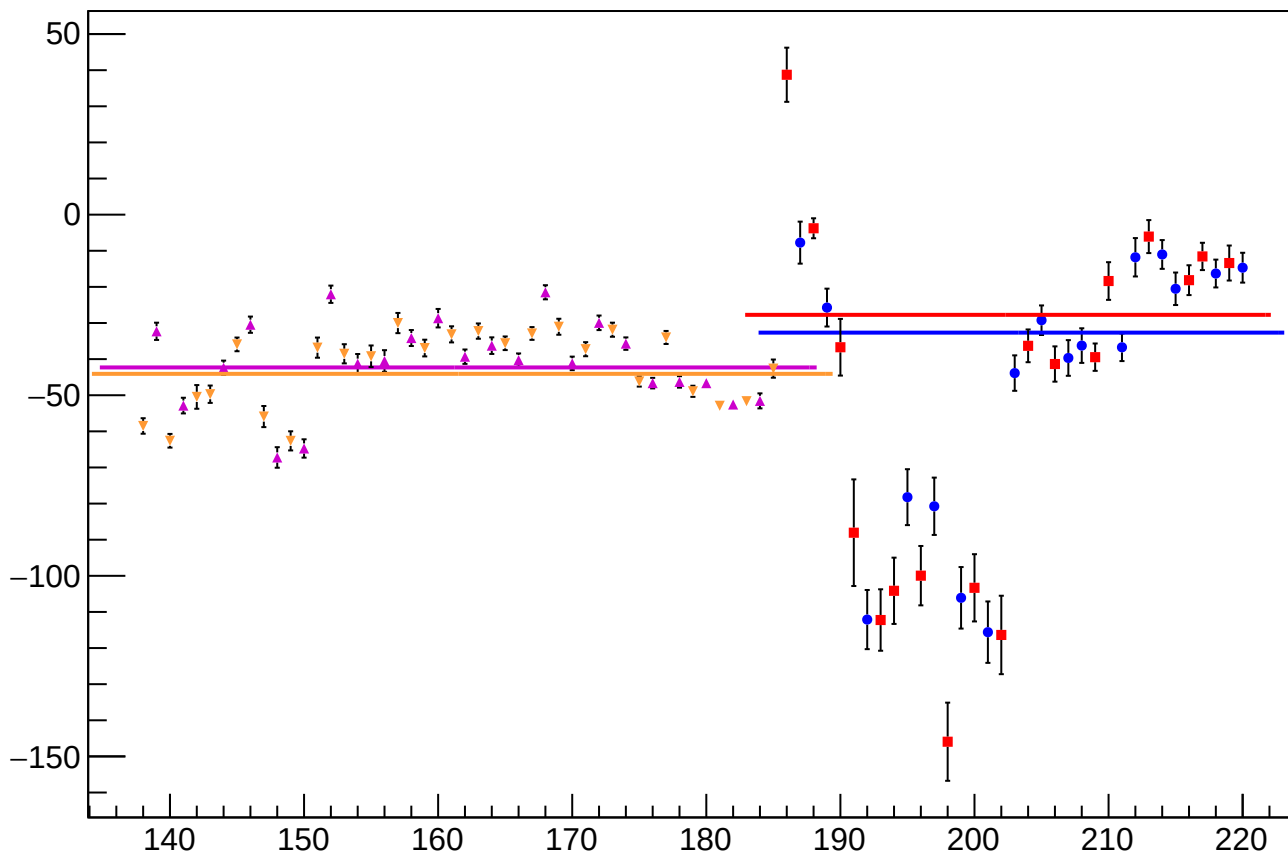
Right: 0.367+/-0.004 χ^2/NDF : 3384.8/70

In: 0.445+/-0.002 χ^2/NDF : 2349.4/56

Out: 0.448+/-0.002 χ^2/NDF : 2867.6/61

All: 0.446+/-0.002 χ^2/NDF : 5217.7/118

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.665 ± 1.222 χ^2/NDF : 453.8/16

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -27.741 ± 1.236 χ^2/NDF : 747.9/17

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

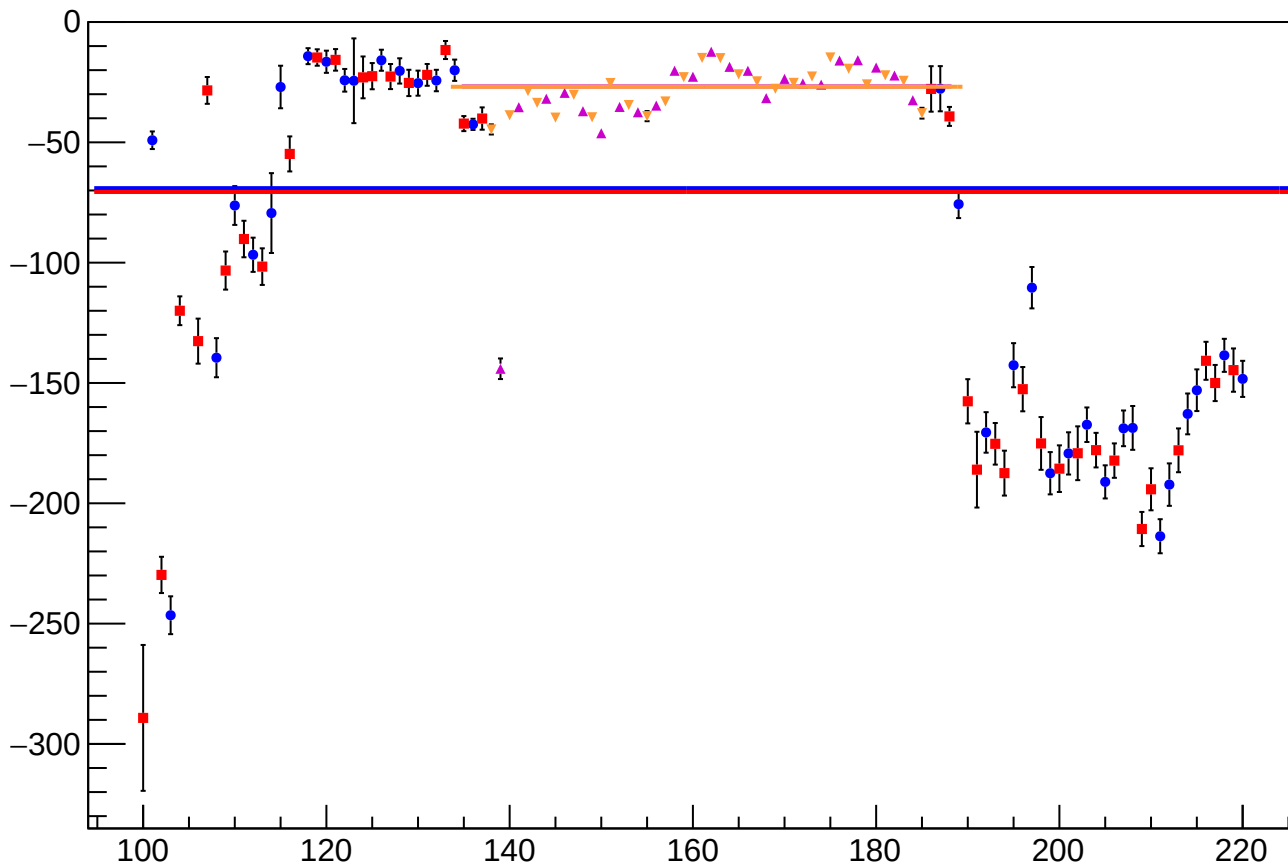
Right: -30.230 ± 0.869 χ^2/NDF : 1209.7/34

In: -41.375 ± 0.379 χ^2/NDF : 1150.6/39

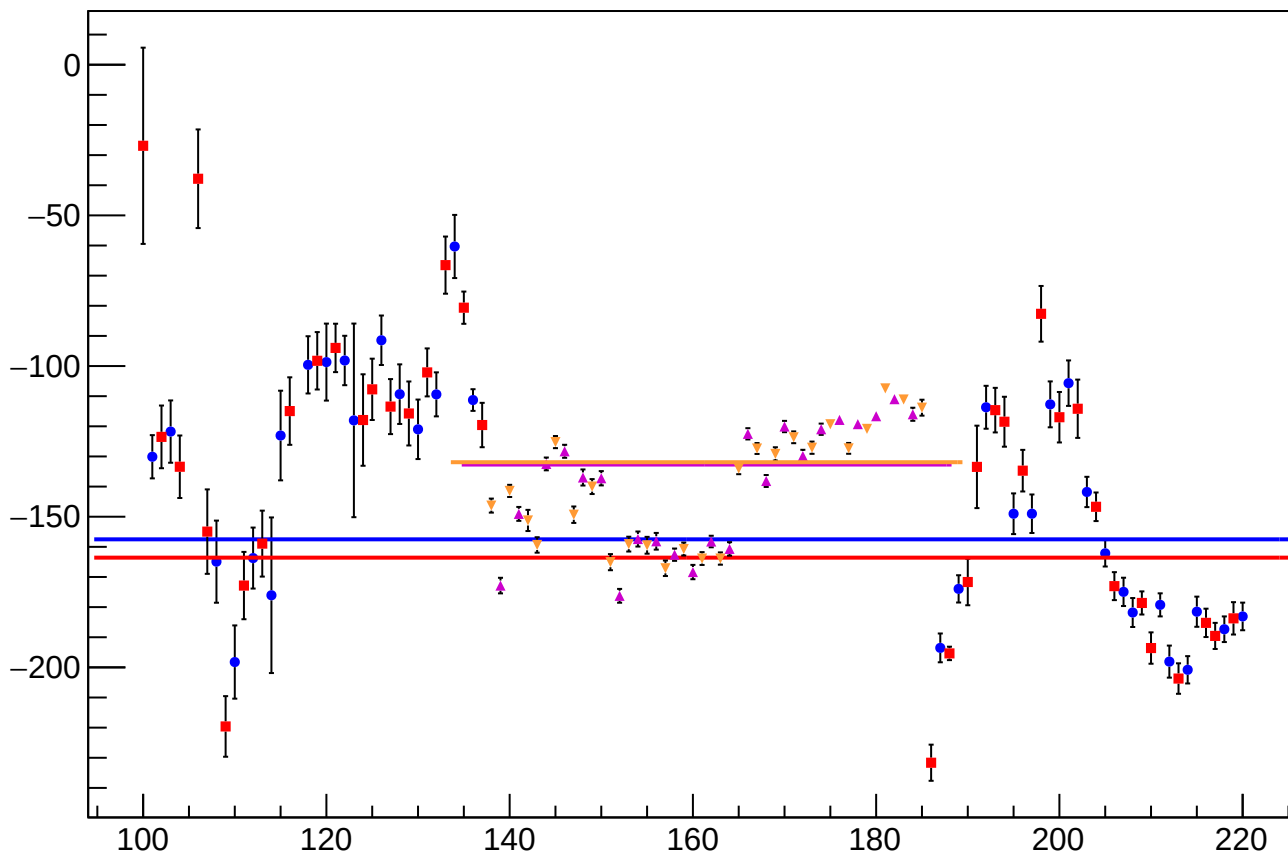
Out: -42.608 ± 0.371 χ^2/NDF : 1539.4/42

All: -42.006 ± 0.265 χ^2/NDF : 2695.4/82

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -157.508 ± 1.055 χ^2/NDF : 1081.8/33

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -163.583 ± 1.046 χ^2/NDF : 1565.5/36

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

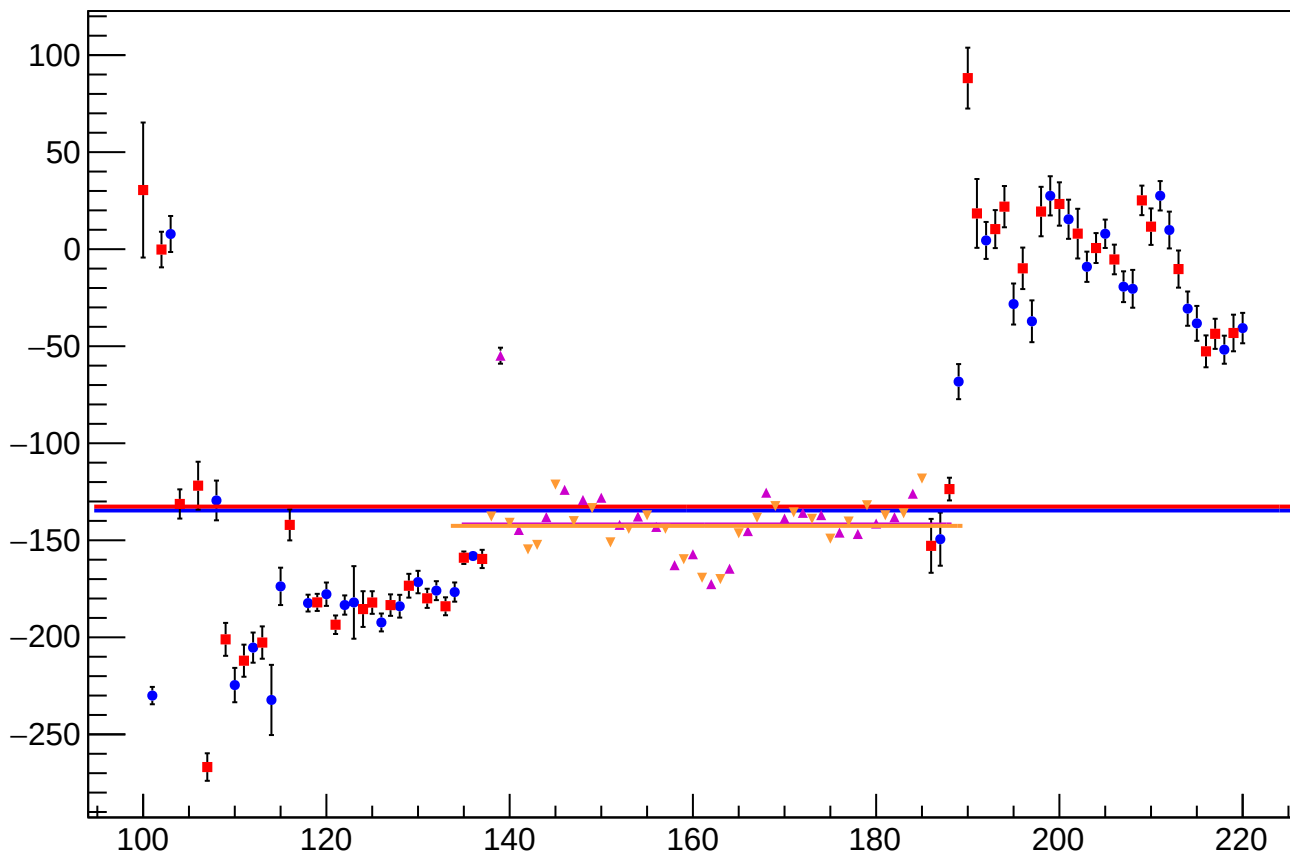
Right: -160.570 ± 0.743 χ^2/NDF : 2664.0/70

In: -135.803 ± 0.374 χ^2/NDF : 4046.2/56

Out: -135.802 ± 0.367 χ^2/NDF : 4808.8/61

All: -135.802 ± 0.262 χ^2/NDF : 8855.1/118

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -134.639 ± 1.099 $\chi^2/\text{NDF}: 4850.2/33$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -132.635 ± 1.156 $\chi^2/\text{NDF}: 4667.6/36$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

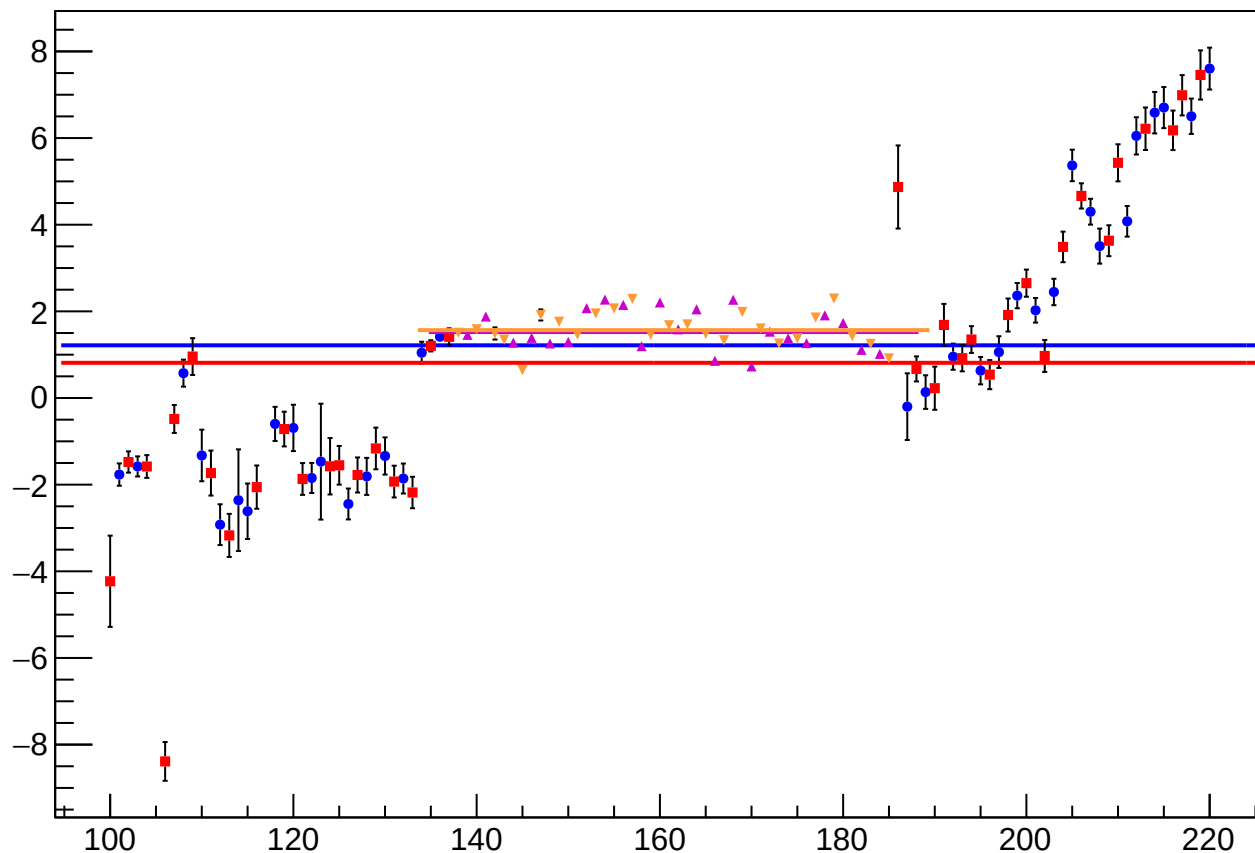
Right: -133.688 ± 0.797 $\chi^2/\text{NDF}: 9519.4/70$

In: -141.144 ± 0.345 $\chi^2/\text{NDF}: 6433.3/56$

Out: -141.713 ± 0.339 $\chi^2/\text{NDF}: 5882.7/61$

All: -141.434 ± 0.242 $\chi^2/\text{NDF}: 12317.4/118$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.216 $\pm$ 0.053 χ^2 /NDF: 1933.6/33

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF: 542.8/24

Right Out: 0.813 $\pm$ 0.056 χ^2 /NDF: 2116.2/36

Left In: 1.523 $\pm$ 0.017 χ^2 /NDF: 738.5/22

Left: 1.545 $\pm$ 0.012 χ^2 /NDF: 1284.8/47

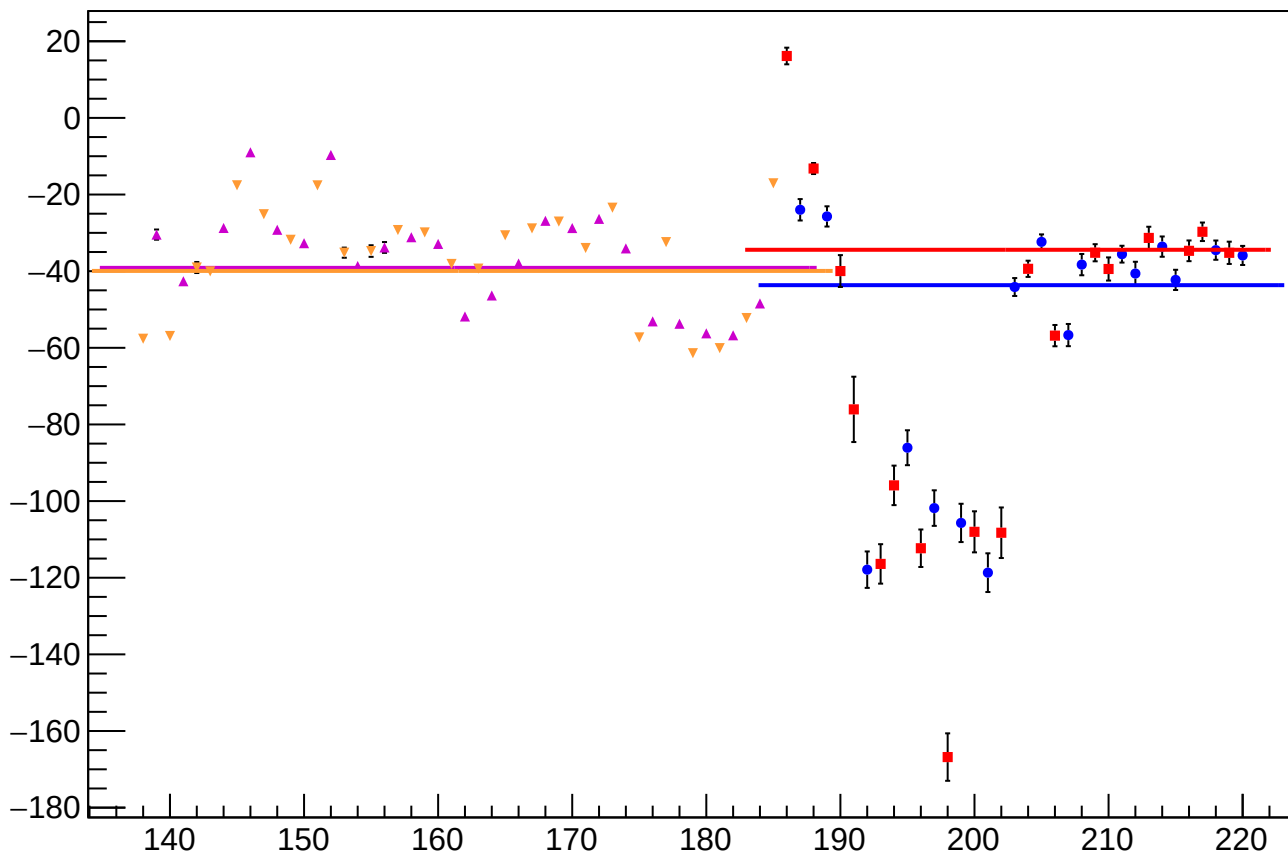
Right: 1.023 $\pm$ 0.039 χ^2 /NDF: 4077.1/70

In: 1.496 $\pm$ 0.016 χ^2 /NDF: 2702.3/56

Out: 1.508 $\pm$ 0.016 χ^2 /NDF: 2827.6/61

All: 1.502 $\pm$ 0.011 χ^2 /NDF: 5530.1/118

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -43.652 ± 0.689 $\chi^2/\text{NDF}: 1067.9/16$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.417 ± 0.678 $\chi^2/\text{NDF}: 2283.5/17$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

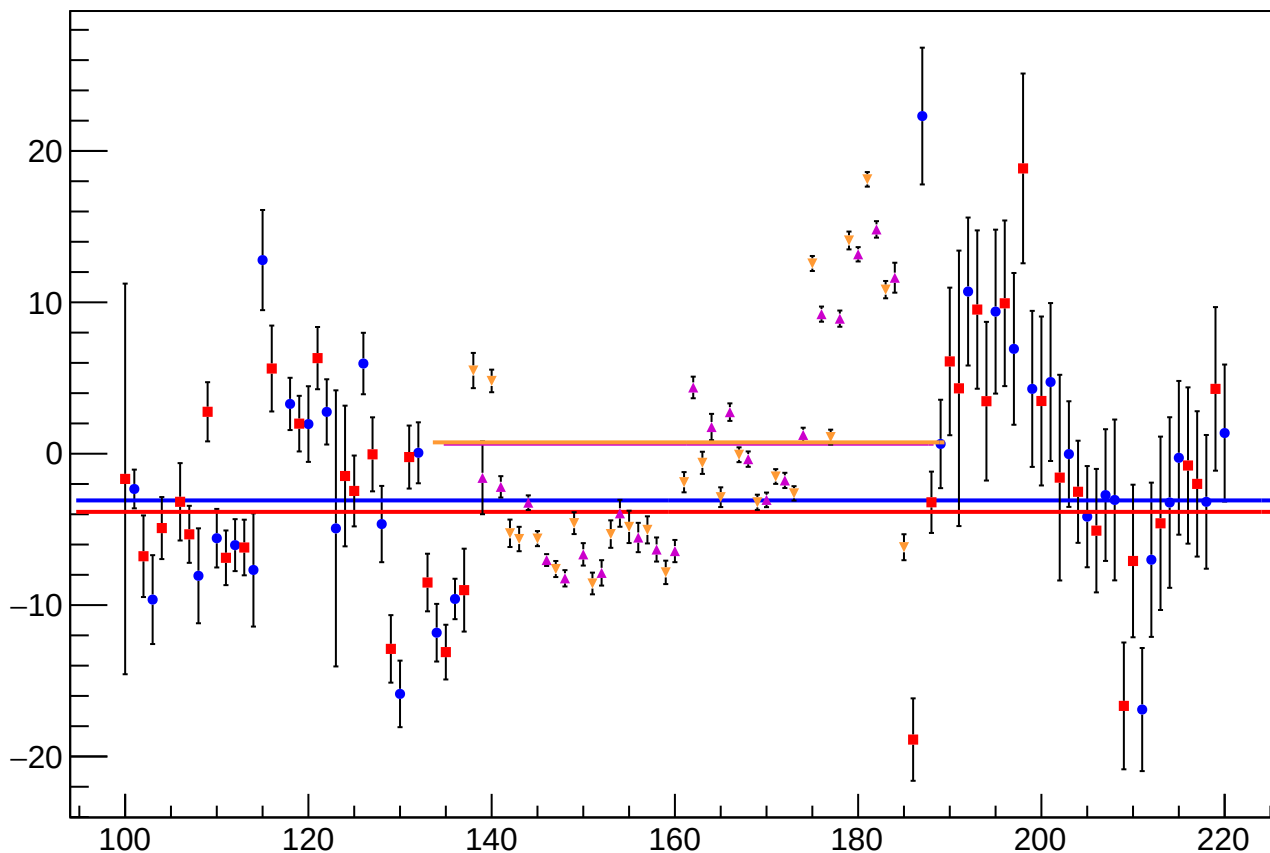
Right: -38.959 ± 0.483 $\chi^2/\text{NDF}: 3442.6/34$

In: -39.353 ± 0.151 $\chi^2/\text{NDF}: 9643.3/39$

Out: -39.667 ± 0.149 $\chi^2/\text{NDF}: 12153.0/42$

All: -39.512 ± 0.106 $\chi^2/\text{NDF}: 21798.5/82$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.085 ± 0.452 $\chi^2/\text{NDF}: 232.5/33$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.842 ± 0.452 $\chi^2/\text{NDF}: 200.2/36$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

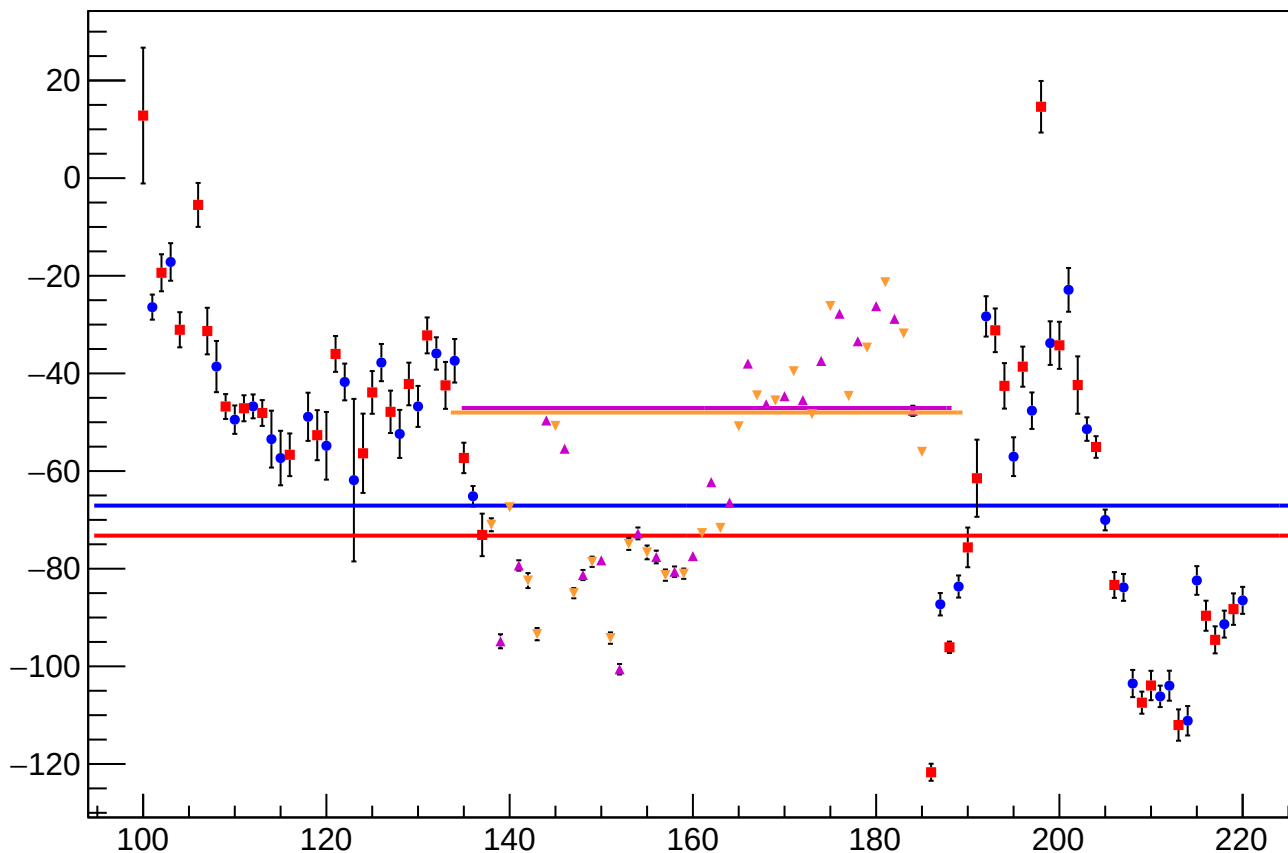
Right: -3.464 ± 0.320 $\chi^2/\text{NDF}: 434.1/70$

In: 0.396 ± 0.120 $\chi^2/\text{NDF}: 3634.2/56$

Out: 0.427 ± 0.120 $\chi^2/\text{NDF}: 4266.9/61$

All: 0.412 ± 0.085 $\chi^2/\text{NDF}: 7901.1/118$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.074 ± 0.542 $\chi^2/\text{NDF}: 2334.4/33$

Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$

Right Out: -73.224 ± 0.514 $\chi^2/\text{NDF}: 3839.0/36$

Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$

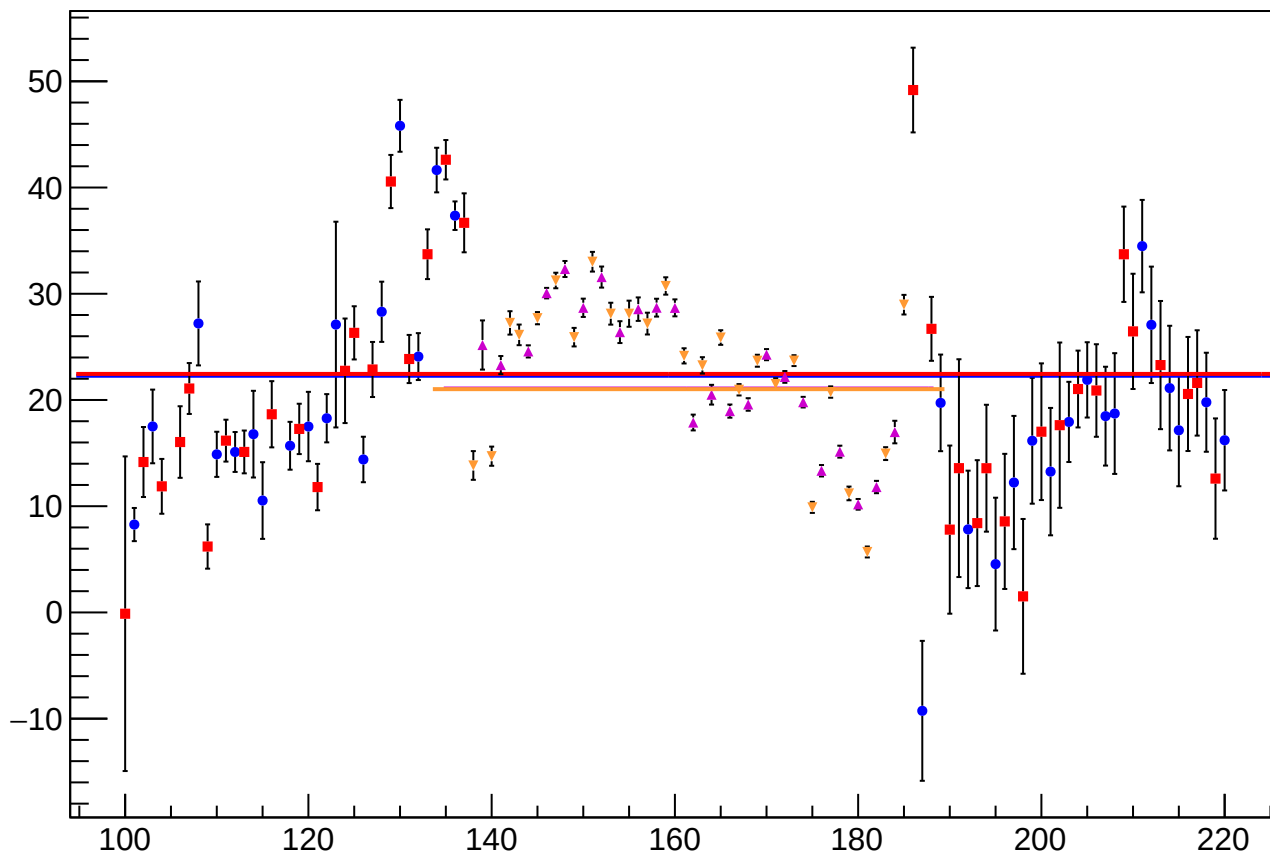
Right: -70.310 ± 0.373 $\chi^2/\text{NDF}: 6241.3/70$

In: -48.605 ± 0.149 $\chi^2/\text{NDF}: 19108.6/56$

Out: -50.103 ± 0.148 $\chi^2/\text{NDF}: 22997.2/61$

All: -49.360 ± 0.105 $\chi^2/\text{NDF}: 42156.6/118$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.282 $\pm$ 0.508 χ^2 /NDF: 517.6/33

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF: 2799.3/24

Right Out: 22.453 $\pm$ 0.518 χ^2 /NDF: 449.7/36

Left In: 21.079 $\pm$ 0.140 χ^2 /NDF: 2173.2/22

Left: 21.049 $\pm$ 0.098 χ^2 /NDF: 4972.6/47

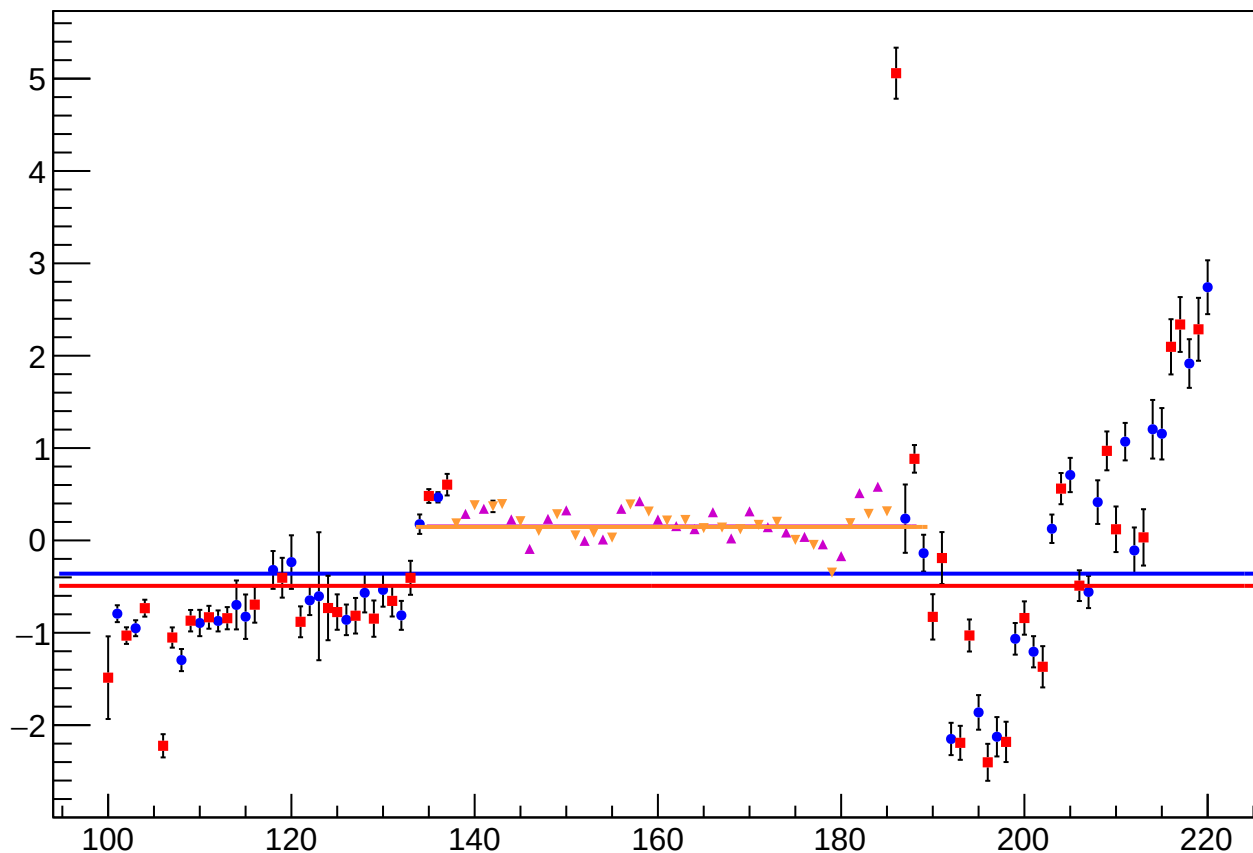
Right: 22.366 $\pm$ 0.363 χ^2 /NDF: 967.3/70

In: 21.163 $\pm$ 0.135 χ^2 /NDF: 2696.0/56

Out: 21.116 $\pm$ 0.134 χ^2 /NDF: 3256.1/61

All: 21.139 $\pm$ 0.095 χ^2 /NDF: 5952.1/118

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.360 ± 0.026 χ^2/NDF : 1068.9/33

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.492 ± 0.026 χ^2/NDF : 1649.7/36

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

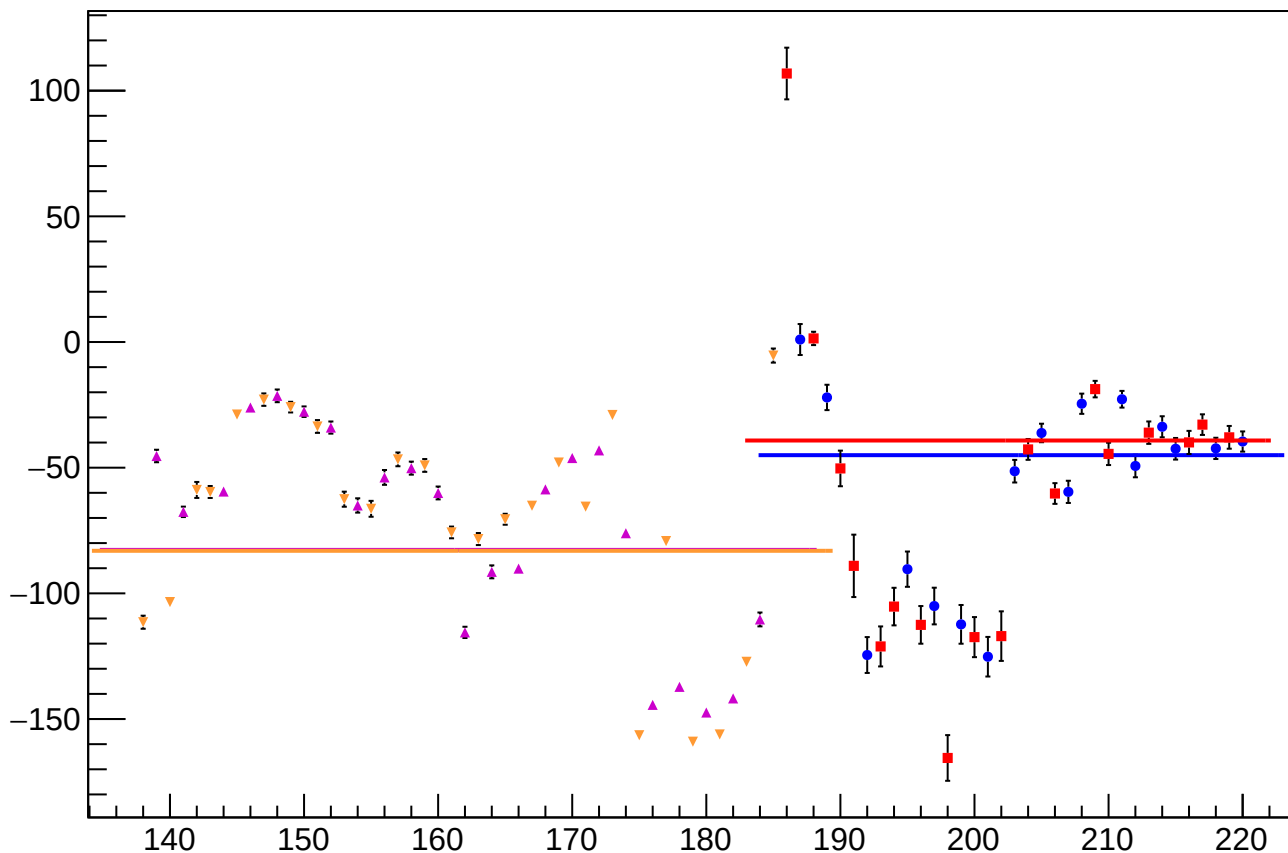
Right: -0.426 ± 0.018 χ^2/NDF : 2731.6/70

In: 0.122 ± 0.006 χ^2/NDF : 2306.6/56

Out: 0.110 ± 0.006 χ^2/NDF : 2832.8/61

All: 0.116 ± 0.004 χ^2/NDF : 5141.1/118

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.021 ± 1.145 χ^2/NDF : 590.3/16

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -39.186 ± 1.167 χ^2/NDF : 1156.5/17

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

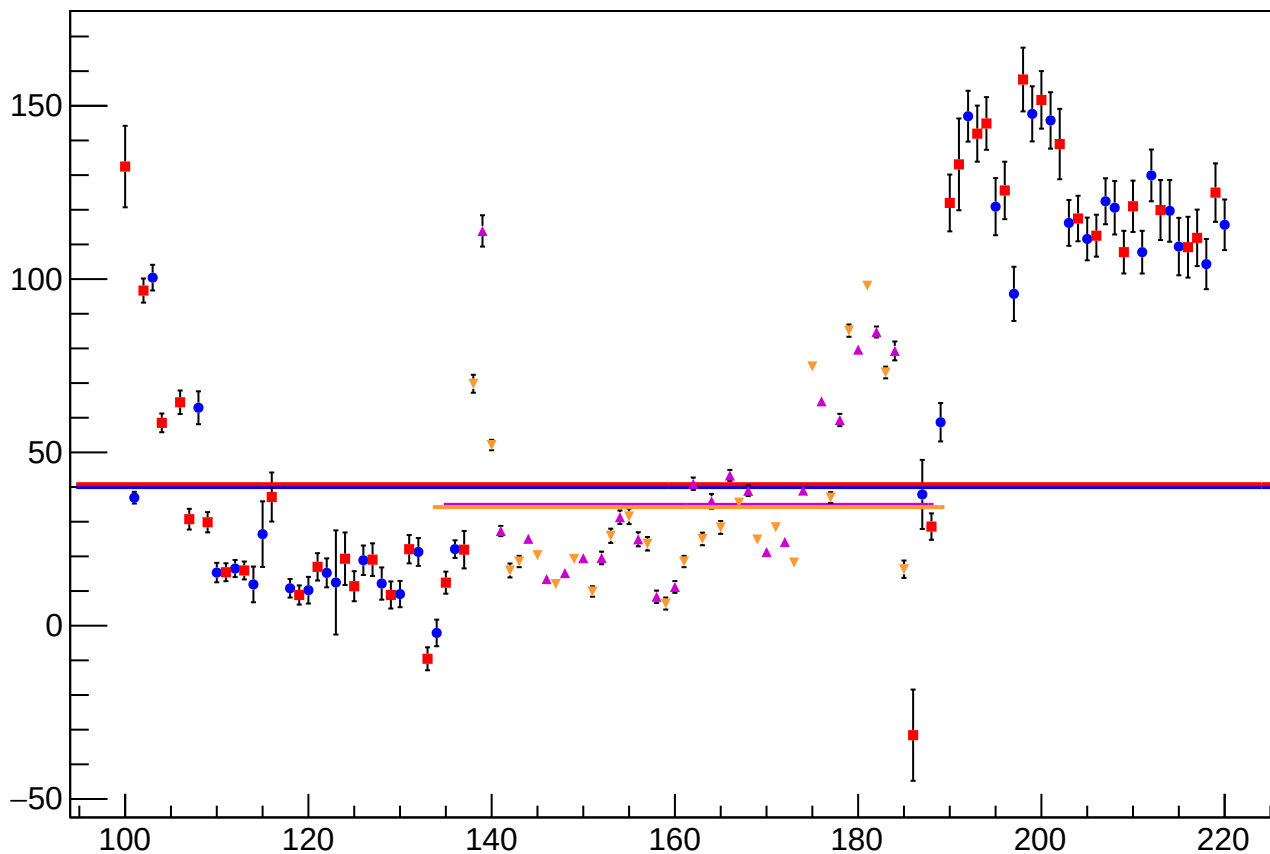
Right: -42.158 ± 0.817 χ^2/NDF : 1759.5/34

In: -78.334 ± 0.390 χ^2/NDF : 12388.8/39

Out: -78.323 ± 0.384 χ^2/NDF : 16234.8/42

All: -78.329 ± 0.274 χ^2/NDF : 28623.6/82

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 40.001+/-0.734 χ^2/NDF : 2887.2/33

Left Out: 34.219+/-0.320 χ^2/NDF : 6192.6/24

Right Out: 40.819+/-0.735 χ^2/NDF : 3181.4/36

Left In: 34.870+/-0.329 χ^2/NDF : 4716.1/22

Left: 34.535+/-0.230 χ^2/NDF : 10910.7/47

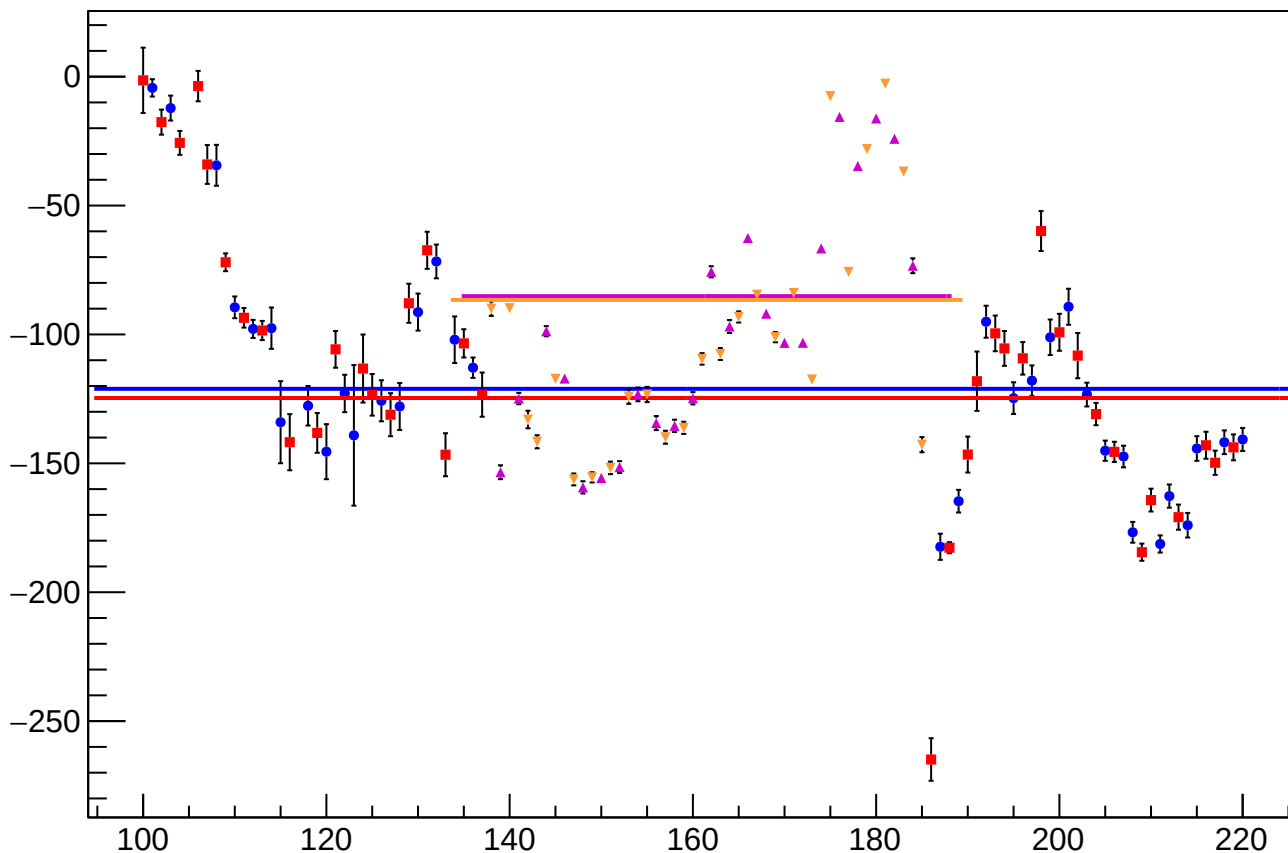
Right: 40.409+/-0.520 χ^2/NDF : 6069.2/70

In: 35.728+/-0.300 χ^2/NDF : 7644.0/56

Out: 35.271+/-0.294 χ^2/NDF : 9441.7/61

All: 35.495+/-0.210 χ^2/NDF : 17086.9/118

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -121.095 ± 0.889 χ^2/NDF : 3184.8/33

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -124.658 ± 0.862 χ^2/NDF : 3798.6/36

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

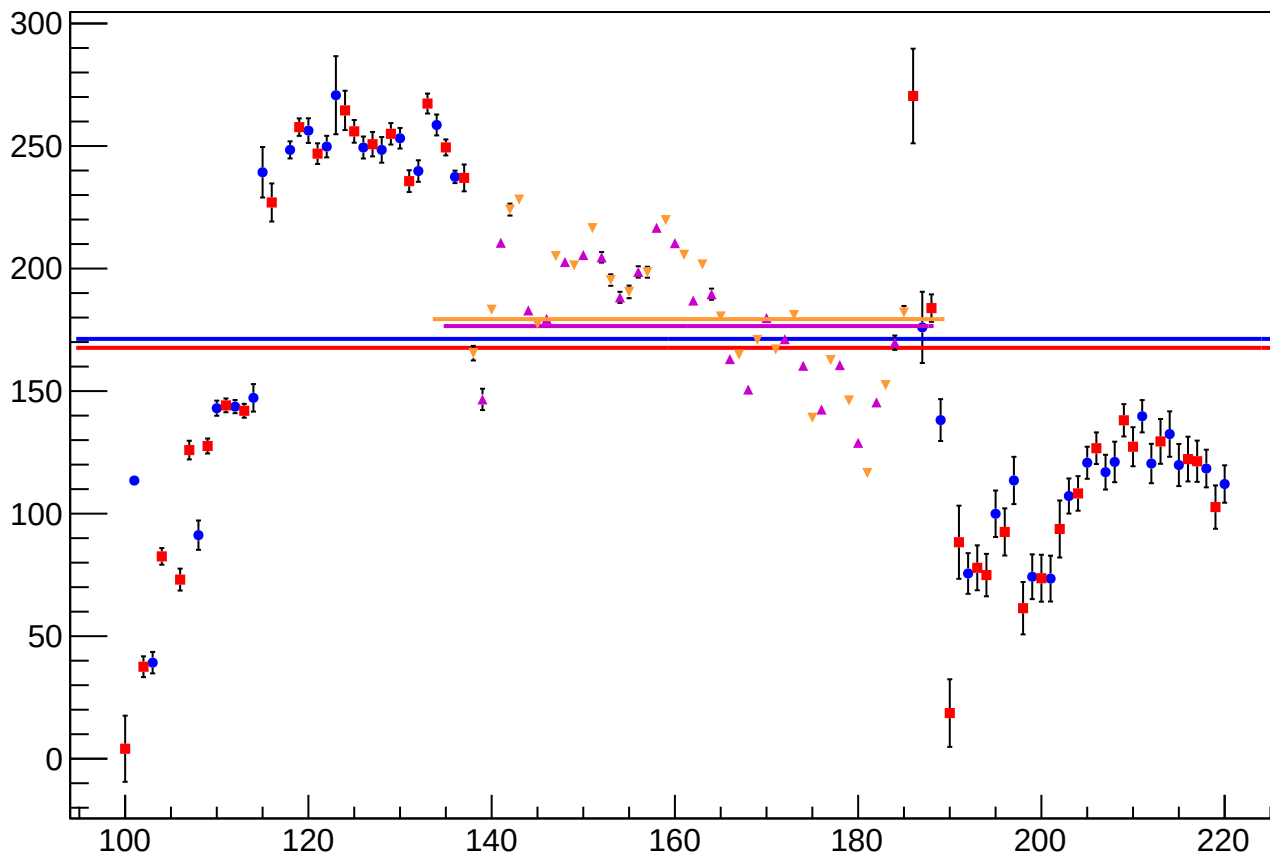
Right: -122.932 ± 0.619 χ^2/NDF : 6991.7/70

In: -91.566 ± 0.376 χ^2/NDF : 17369.0/56

Out: -93.575 ± 0.369 χ^2/NDF : 19906.8/61

All: -92.589 ± 0.263 χ^2/NDF : 37290.3/118

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 171.300 ± 0.835 $\chi^2/\text{NDF}: 6415.2/33$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 167.650 ± 0.842 $\chi^2/\text{NDF}: 7430.8/36$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

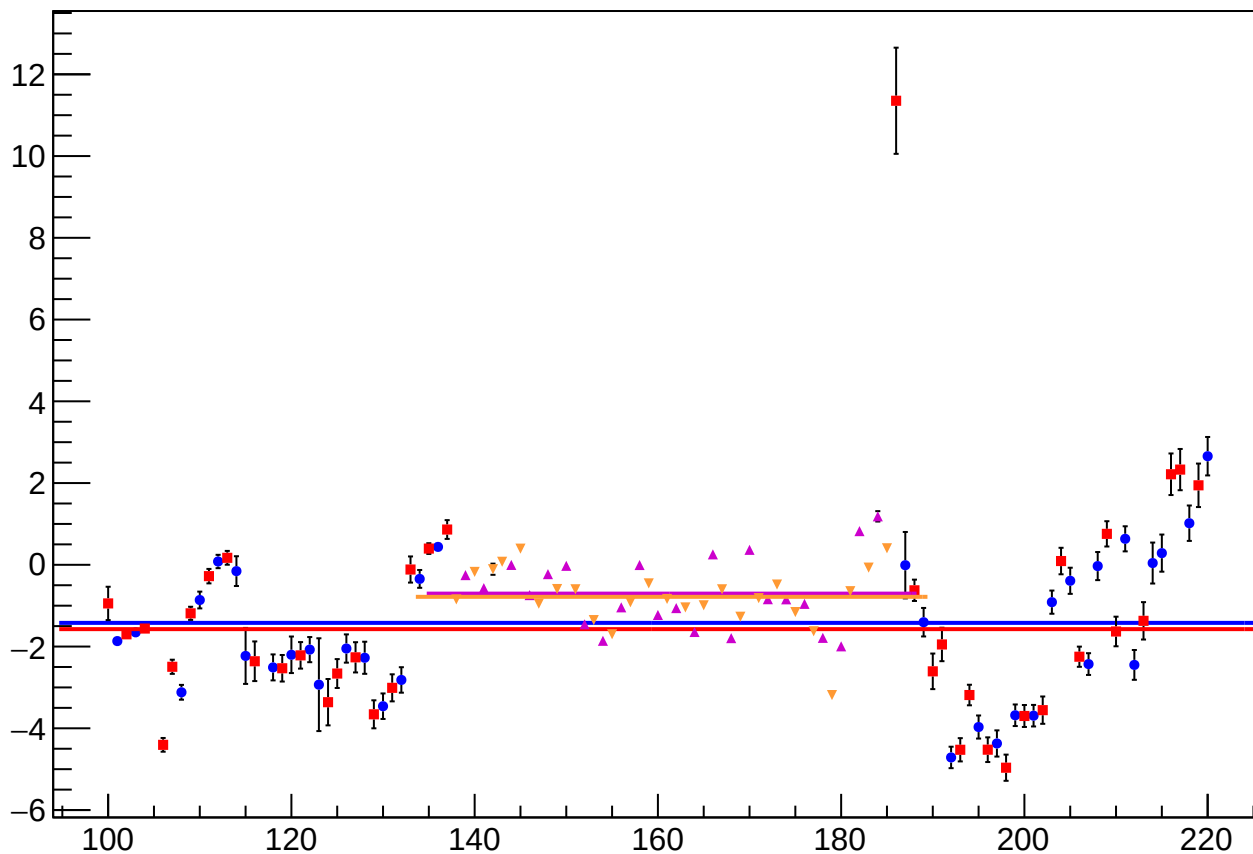
Right: 169.491 ± 0.593 $\chi^2/\text{NDF}: 13855.4/70$

In: 175.669 ± 0.339 $\chi^2/\text{NDF}: 10873.9/56$

Out: 177.534 ± 0.332 $\chi^2/\text{NDF}: 13576.2/61$

All: 176.620 ± 0.237 $\chi^2/\text{NDF}: 24465.5/118$

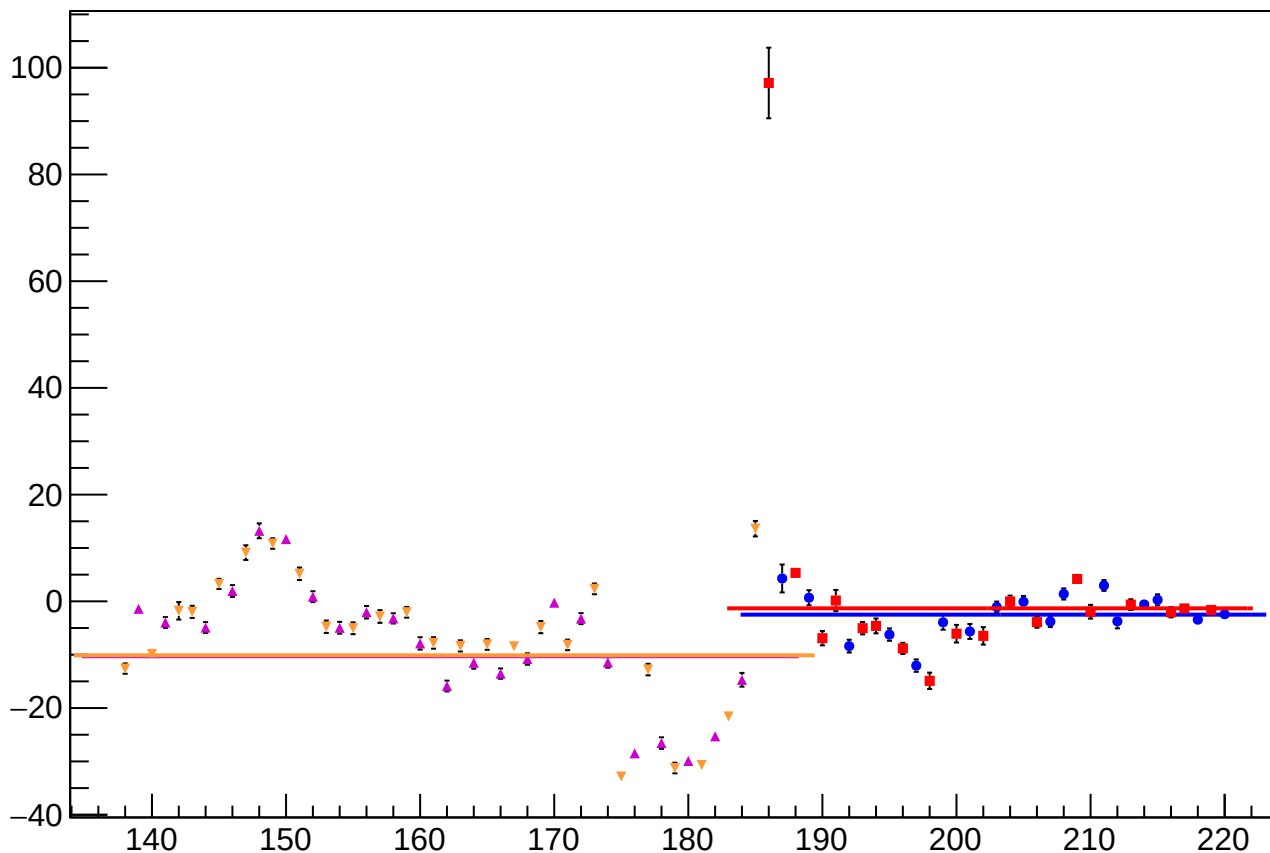
reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.421 ± 0.041 χ^2/NDF : 1343.0/33
 Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24
 Right Out: -1.574 ± 0.040 χ^2/NDF : 1758.5/36
 Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47
 Right: -1.500 ± 0.029 χ^2/NDF : 3108.7/70
 In: -0.808 ± 0.016 χ^2/NDF : 4008.3/56
 Out: -0.901 ± 0.015 χ^2/NDF : 3867.3/61
 All: -0.855 ± 0.011 χ^2/NDF : 7893.6/118

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.494 ± 0.270 χ^2/NDF : 185.0/16

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.315 ± 0.261 χ^2/NDF : 559.3/17

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

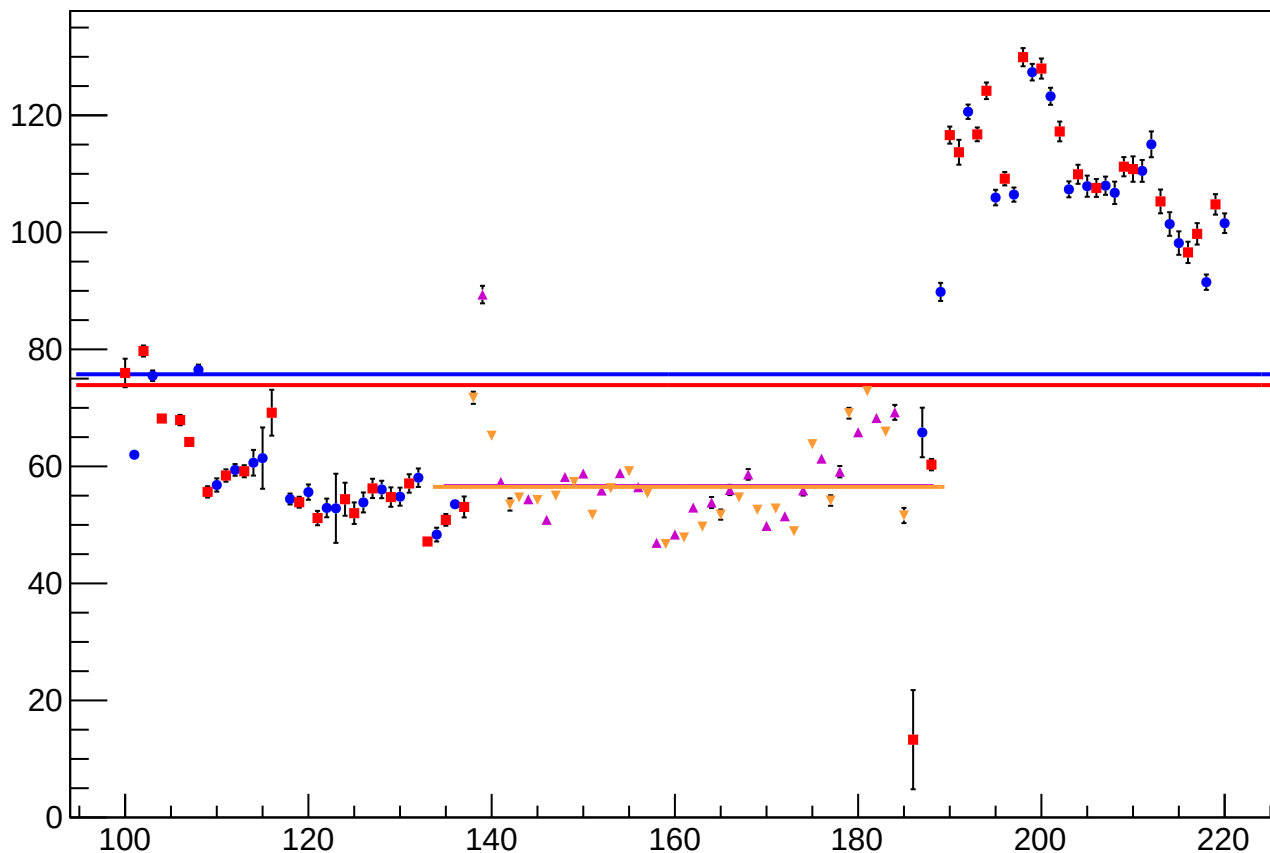
Right: -1.884 ± 0.188 χ^2/NDF : 754.2/34

In: -7.436 ± 0.164 χ^2/NDF : 4163.4/39

Out: -6.833 ± 0.159 χ^2/NDF : 5410.0/42

All: -7.127 ± 0.114 χ^2/NDF : 9580.4/82

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 75.741+/-0.217 χ^2/NDF : 12070.1/33

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 73.893+/-0.206 χ^2/NDF : 15347.5/36

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

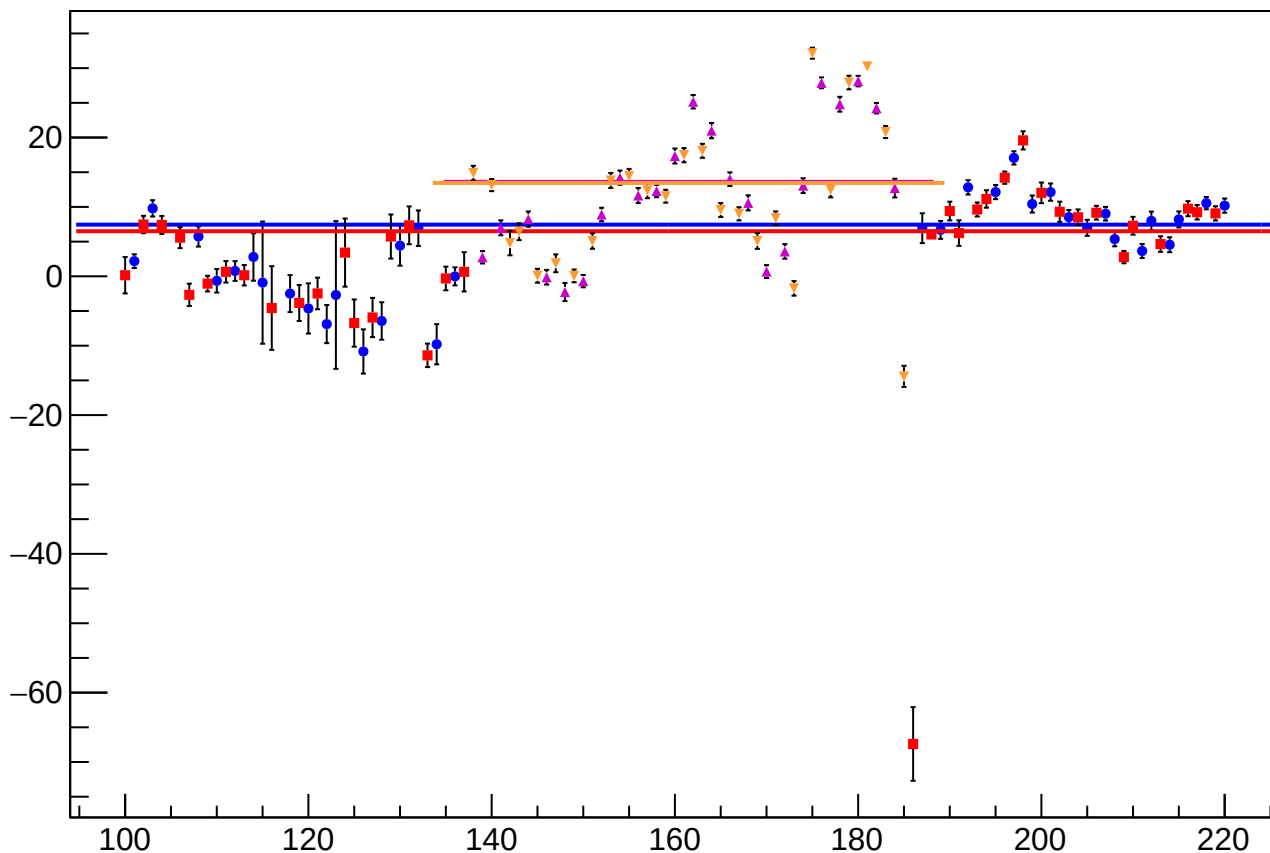
Right: 74.767+/-0.149 χ^2/NDF : 27455.8/70

In: 63.640+/-0.131 χ^2/NDF :18586.2/56

Out: 63.002+/-0.126 χ^2/NDF :21799.7/61

All: 63.307+/-0.091 χ^2/NDF : 40398.1/118

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.444 ± 0.230 χ^2/NDF : 481.6/33

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.498 ± 0.215 χ^2/NDF : 788.7/36

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

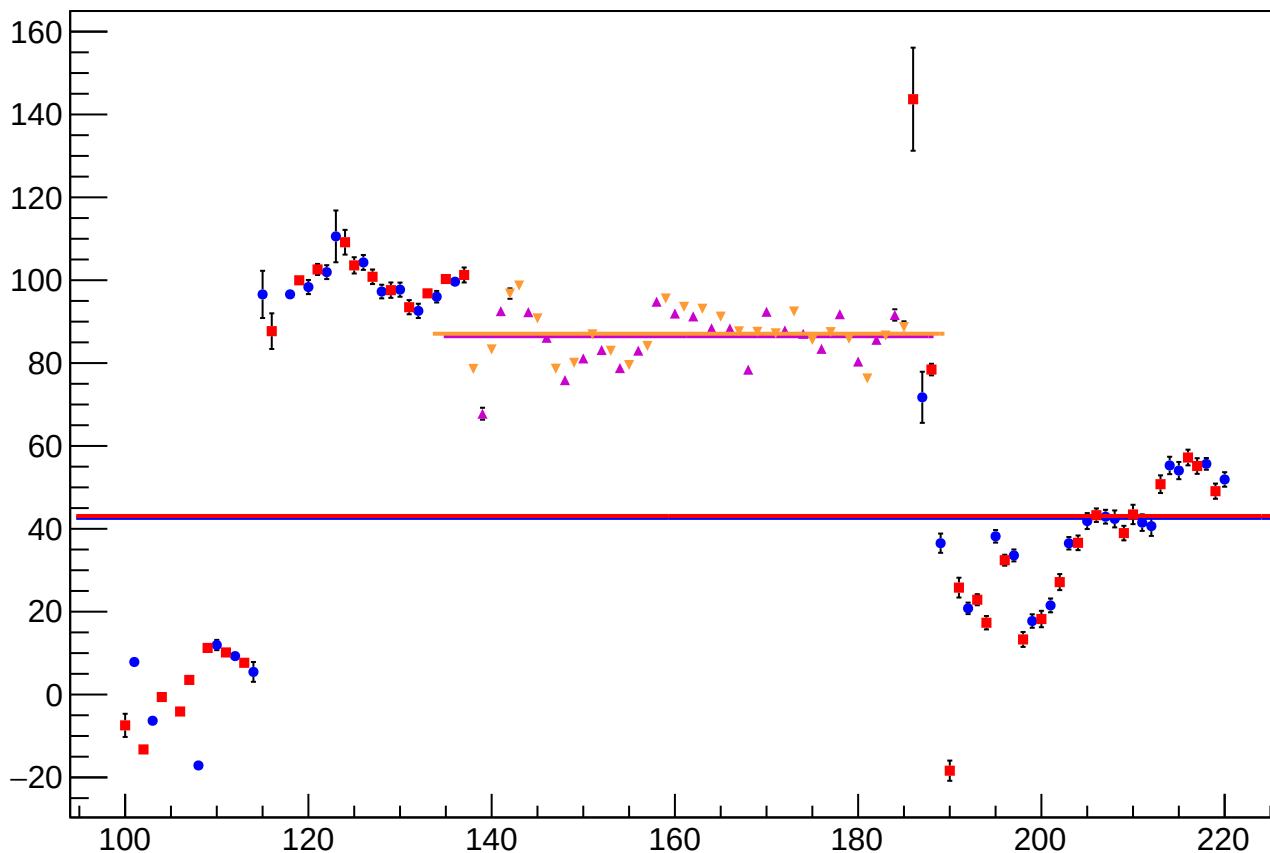
Right: 6.938 ± 0.157 χ^2/NDF : 1279.3/70

In: 10.897 ± 0.153 χ^2/NDF : 3199.2/56

Out: 10.203 ± 0.147 χ^2/NDF : 4084.1/61

All: 10.536 ± 0.106 χ^2/NDF : 7294.0/118

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.638 $\pm$ 0.249 χ^2 /NDF: 25665.4/33

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 43.095 $\pm$ 0.240 χ^2 /NDF: 30888.0/36

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

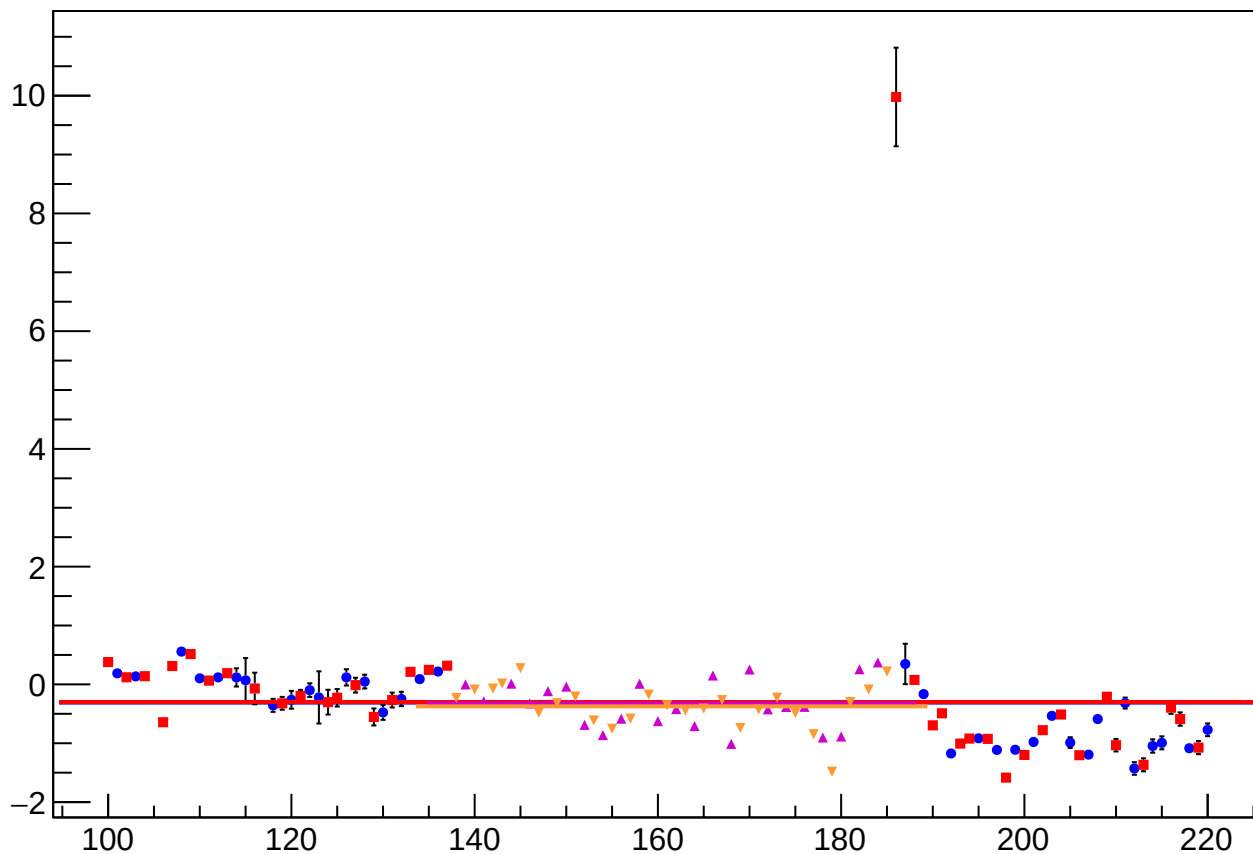
Right: 42.875 $\pm$ 0.173 χ^2 /NDF: 56555.1/70

In: 70.918 $\pm$ 0.148 χ^2 /NDF:46690.2/56

Out: 71.335 $\pm$ 0.143 χ^2 /NDF:53581.3/61

All: 71.134 $\pm$ 0.103 χ^2 /NDF: 100275.6/118

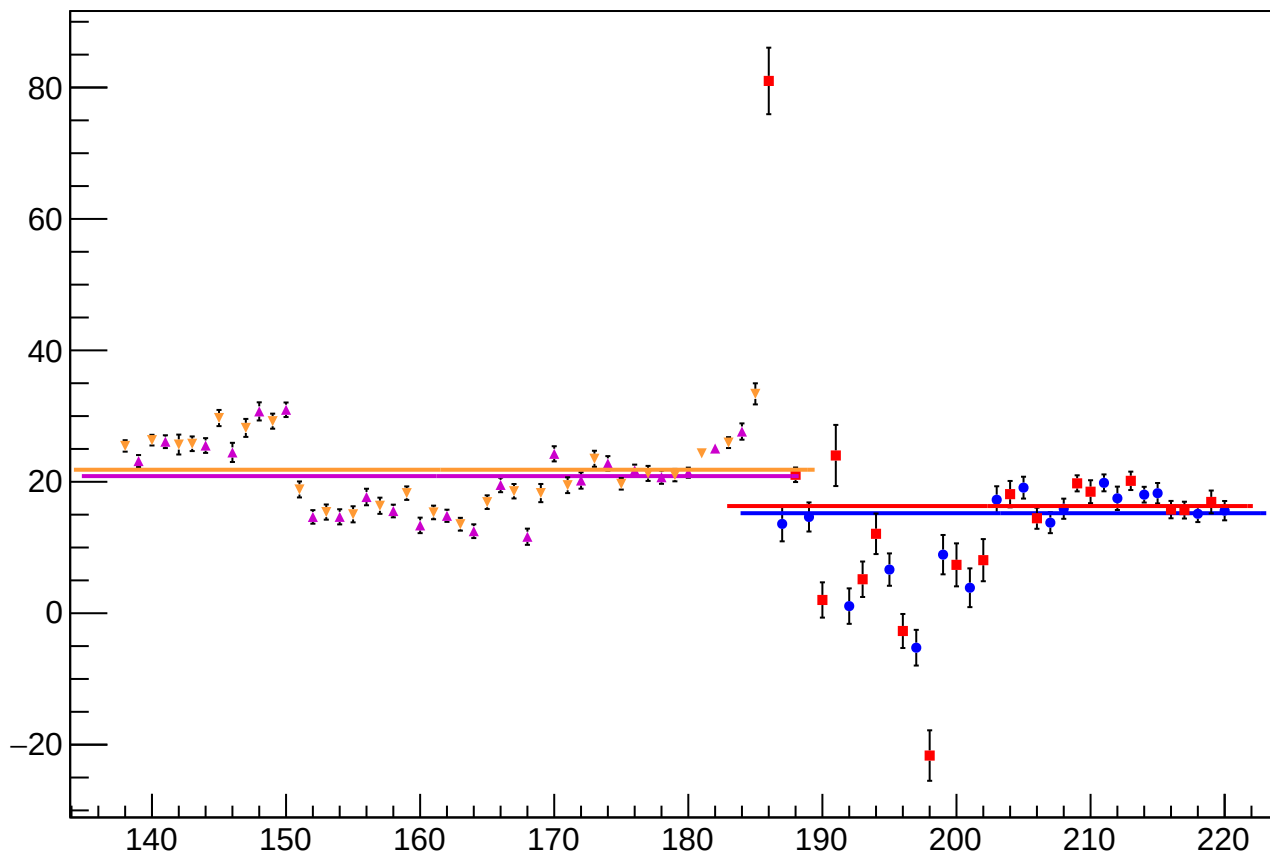
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.309 ± 0.010 χ^2/NDF : 3514.6/33
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.299 ± 0.010 χ^2/NDF : 3761.0/36
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.304 ± 0.007 χ^2/NDF : 7276.1/70
 In: -0.319 ± 0.006 χ^2/NDF : 5800.1/56
 Out: -0.343 ± 0.006 χ^2/NDF : 5463.3/61
 All: -0.332 ± 0.005 χ^2/NDF : 11270.7/118

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.221 $\pm$ 0.424 χ^2 /NDF: 147.5/16

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 16.310 $\pm$ 0.432 χ^2 /NDF: 417.2/17

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF: 576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

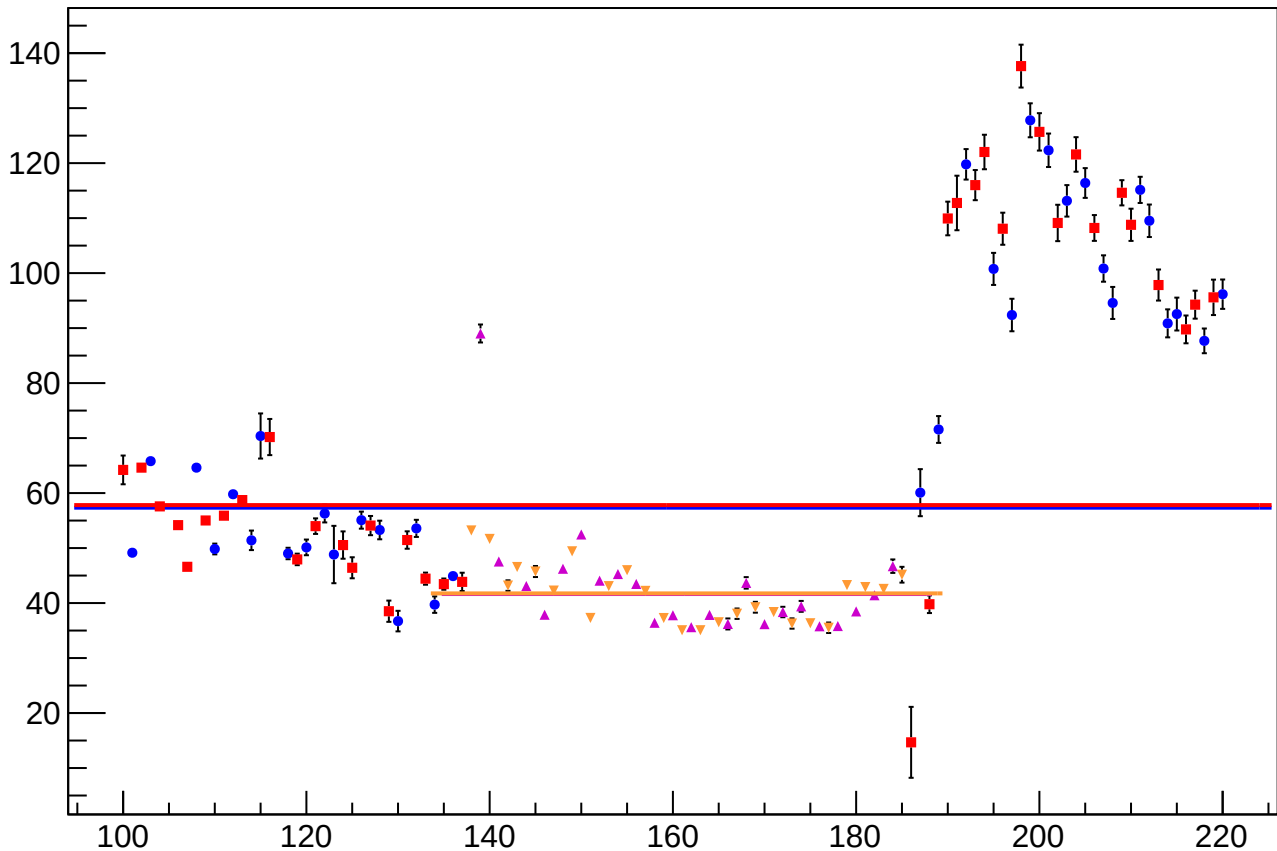
Right: 15.756 $\pm$ 0.303 χ^2 /NDF: 567.9/34

In: 19.699 $\pm$ 0.193 χ^2 /NDF: 864.7/39

Out: 20.783 $\pm$ 0.189 χ^2 /NDF: 1073.8/42

All: 20.253 $\pm$ 0.135 χ^2 /NDF: 1954.7/82

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.347 +/- 0.201 χ^2/NDF : 6457.8/33

Left Out: 41.757 +/- 0.165 χ^2/NDF : 1015.7/24

Right Out: 57.814 +/- 0.215 χ^2/NDF : 6571.8/36

Left In: 41.643 +/- 0.174 χ^2/NDF : 1611.0/22

Left: 41.703 +/- 0.120 χ^2/NDF : 2626.9/47

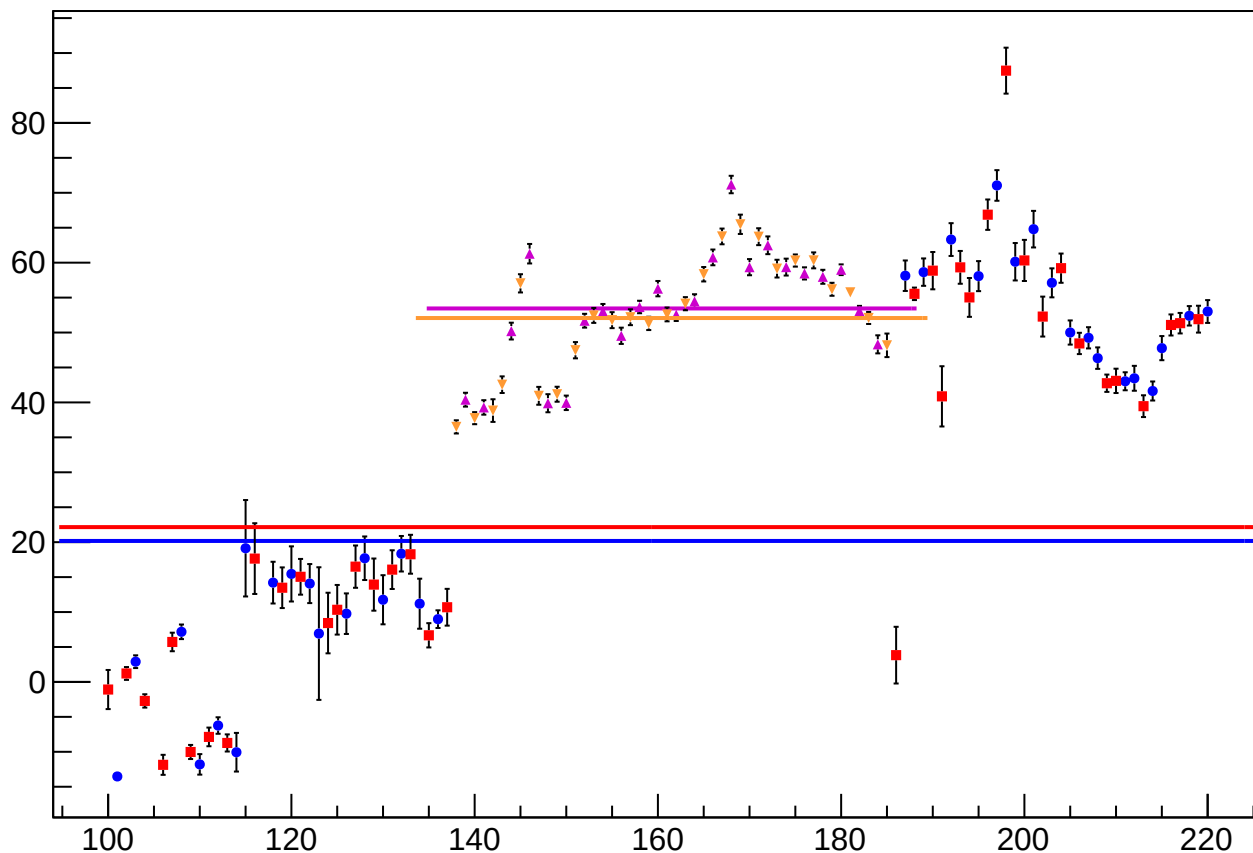
Right: 57.566 +/- 0.147 χ^2/NDF : 13032.0/70

In: 48.352 +/- 0.132 χ^2/NDF : 11557.4/56

Out: 47.739 +/- 0.131 χ^2/NDF : 11100.2/61

All: 48.044 +/- 0.093 χ^2/NDF : 22668.5/118

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 20.175+/-0.277 χ^2/NDF : 10256.1/33

Left Out: 52.076+/-0.210 χ^2/NDF :1450.9/24

Right Out: 22.156+/-0.282 χ^2/NDF : 9565.4/36

Left In: 53.447+/-0.215 χ^2/NDF :1169.0/22

Left: 52.744+/-0.150 χ^2/NDF : 2640.6/47

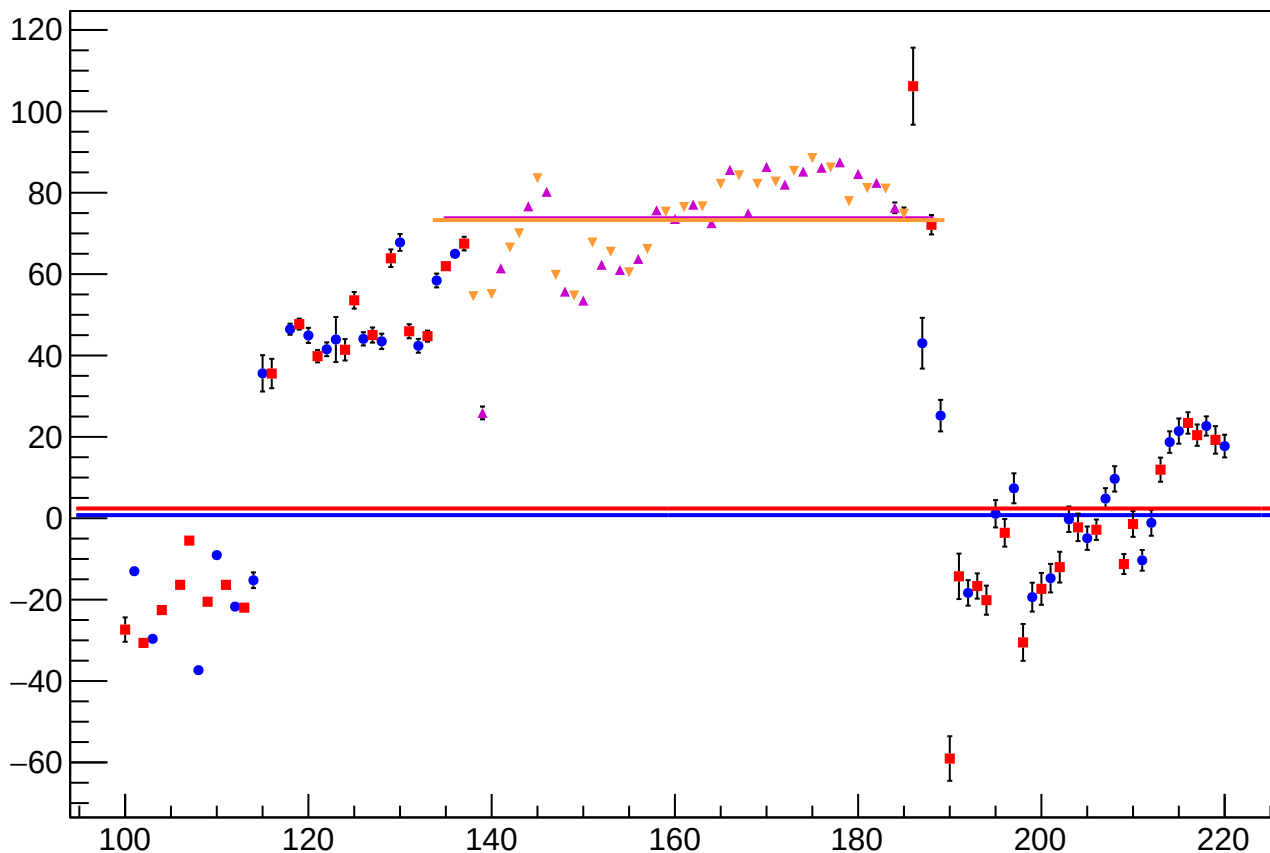
Right: 21.151+/-0.198 χ^2/NDF : 19846.6/70

In: 40.938+/-0.170 χ^2/NDF :20399.3/56

Out: 41.379+/-0.168 χ^2/NDF :18273.7/61

All: 41.161+/-0.120 χ^2/NDF : 38676.4/118

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.770 ± 0.235 $\chi^2/\text{NDF}: 18649.0/33$

Left Out: 73.284 ± 0.187 $\chi^2/\text{NDF}: 3144.2/24$

Right Out: 2.398 ± 0.252 $\chi^2/\text{NDF}: 16886.0/36$

Left In: 73.730 ± 0.194 $\chi^2/\text{NDF}: 3775.8/22$

Left: 73.498 ± 0.135 $\chi^2/\text{NDF}: 6922.7/47$

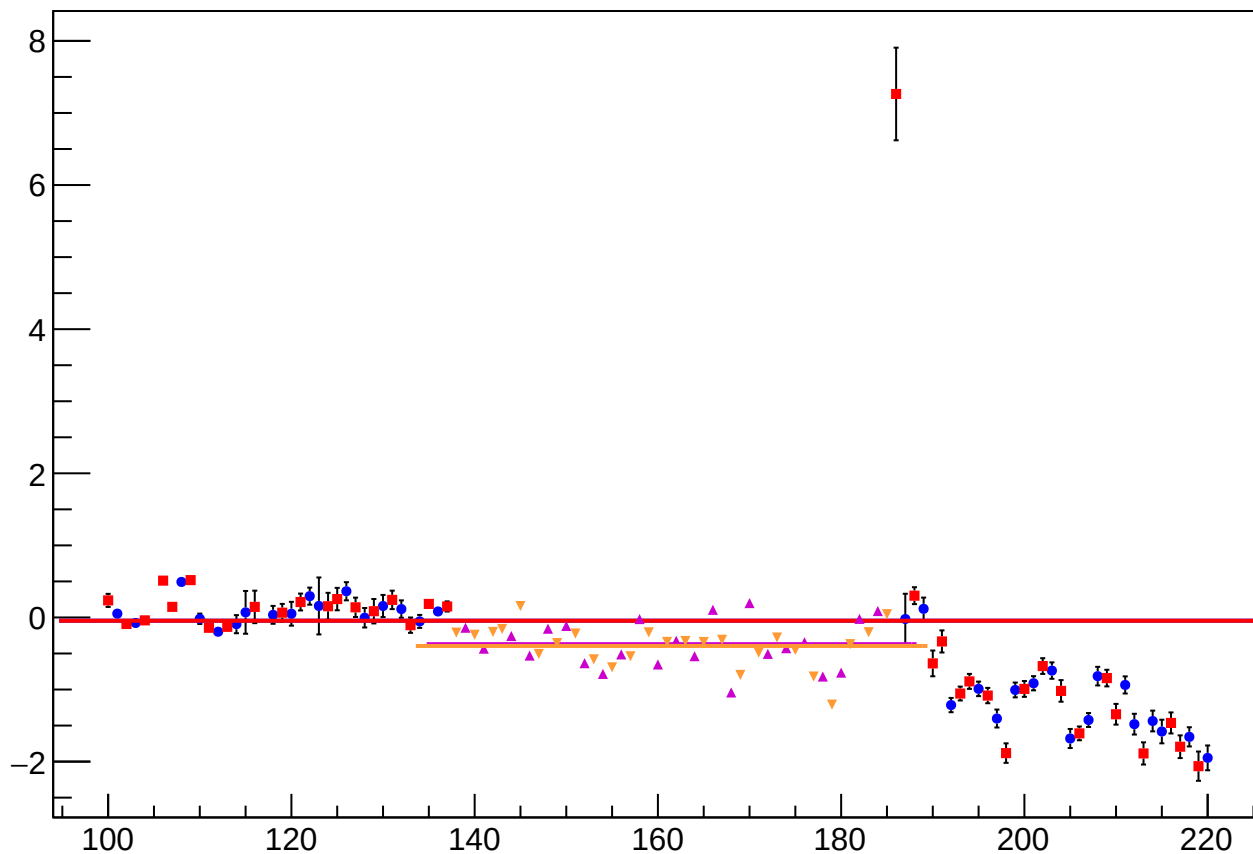
Right: 1.527 ± 0.172 $\chi^2/\text{NDF}: 35557.3/70$

In: 44.100 ± 0.150 $\chi^2/\text{NDF}: 79667.7/56$

Out: 48.125 ± 0.150 $\chi^2/\text{NDF}: 71113.6/61$

All: 46.108 ± 0.106 $\chi^2/\text{NDF}: 151141.8/118$

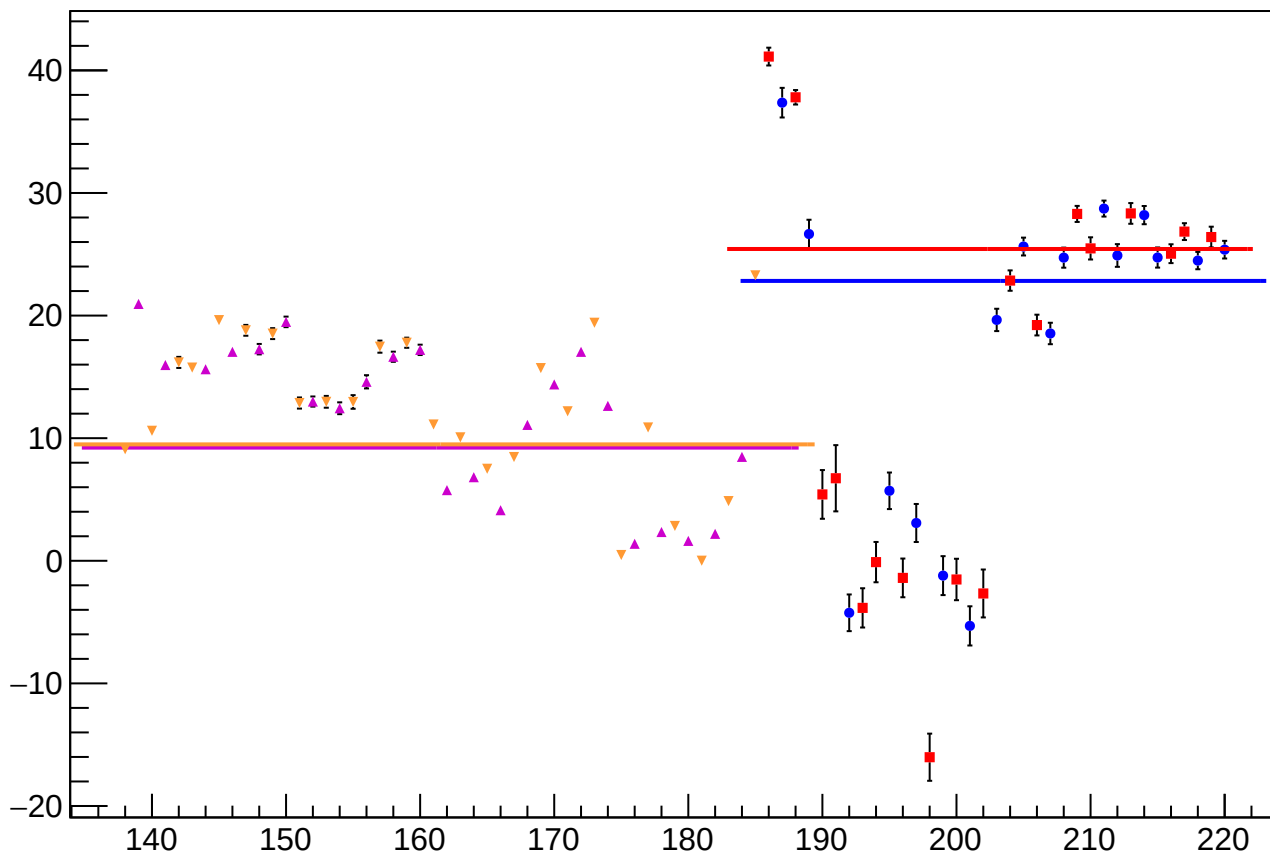
reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.045 ± 0.010 $\chi^2/\text{NDF}: 2132.1/33$
 Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$
 Right Out: -0.046 ± 0.010 $\chi^2/\text{NDF}: 2149.4/36$
 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: -0.045 ± 0.007 $\chi^2/\text{NDF}: 4281.4/70$
 In: -0.236 ± 0.007 $\chi^2/\text{NDF}: 4025.3/56$
 Out: -0.254 ± 0.007 $\chi^2/\text{NDF}: 3779.7/61$
 All: -0.245 ± 0.005 $\chi^2/\text{NDF}: 7808.5/118$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.827 ± 0.223 χ^2/NDF : 1535.0/16

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 25.432 ± 0.222 χ^2/NDF : 2944.3/17

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

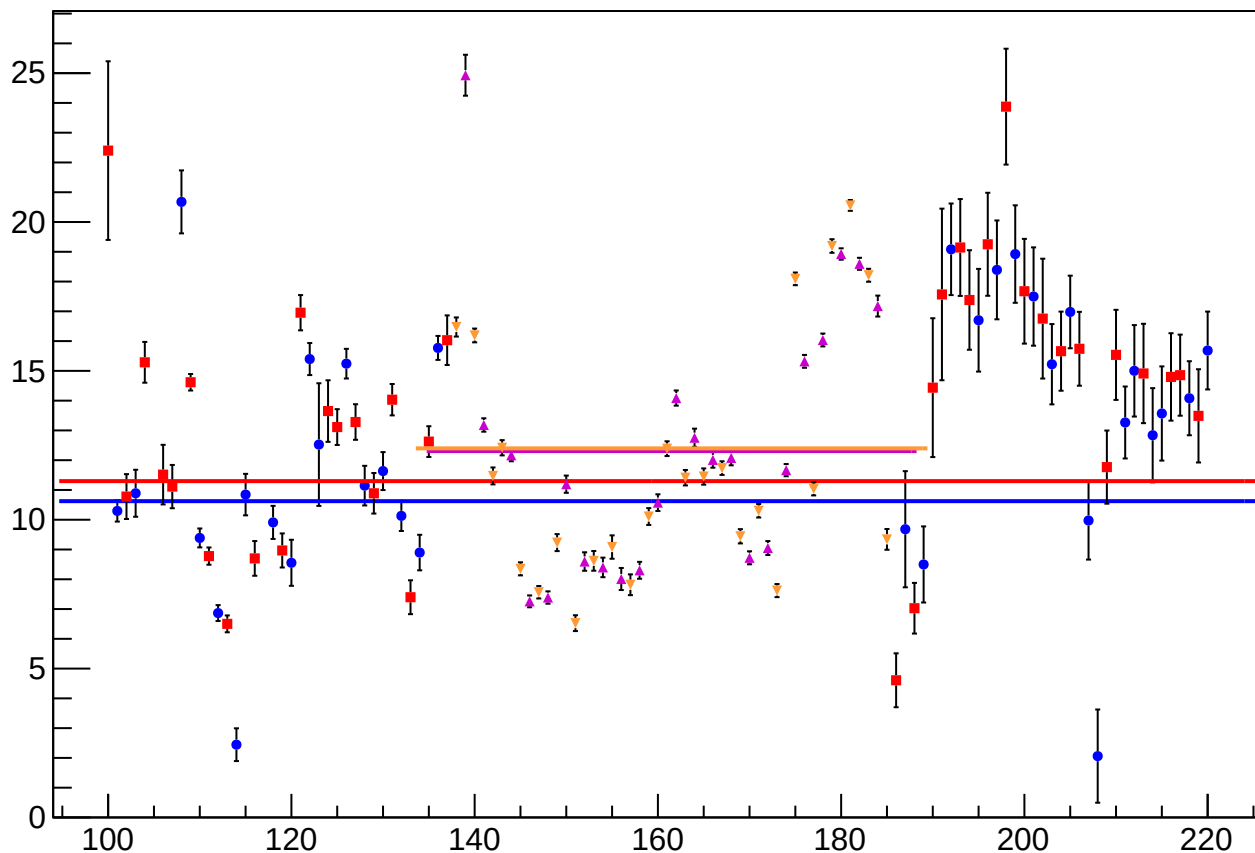
Right: 24.132 ± 0.157 χ^2/NDF : 4547.8/34

In: 10.239 ± 0.061 χ^2/NDF : 15720.8/39

Out: 10.618 ± 0.059 χ^2/NDF : 20325.8/42

All: 10.434 ± 0.042 χ^2/NDF : 36066.7/82

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.624 $\pm$ 0.113 χ^2 /NDF: 1096.6/33

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.297 $\pm$ 0.110 χ^2 /NDF: 1076.8/36

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

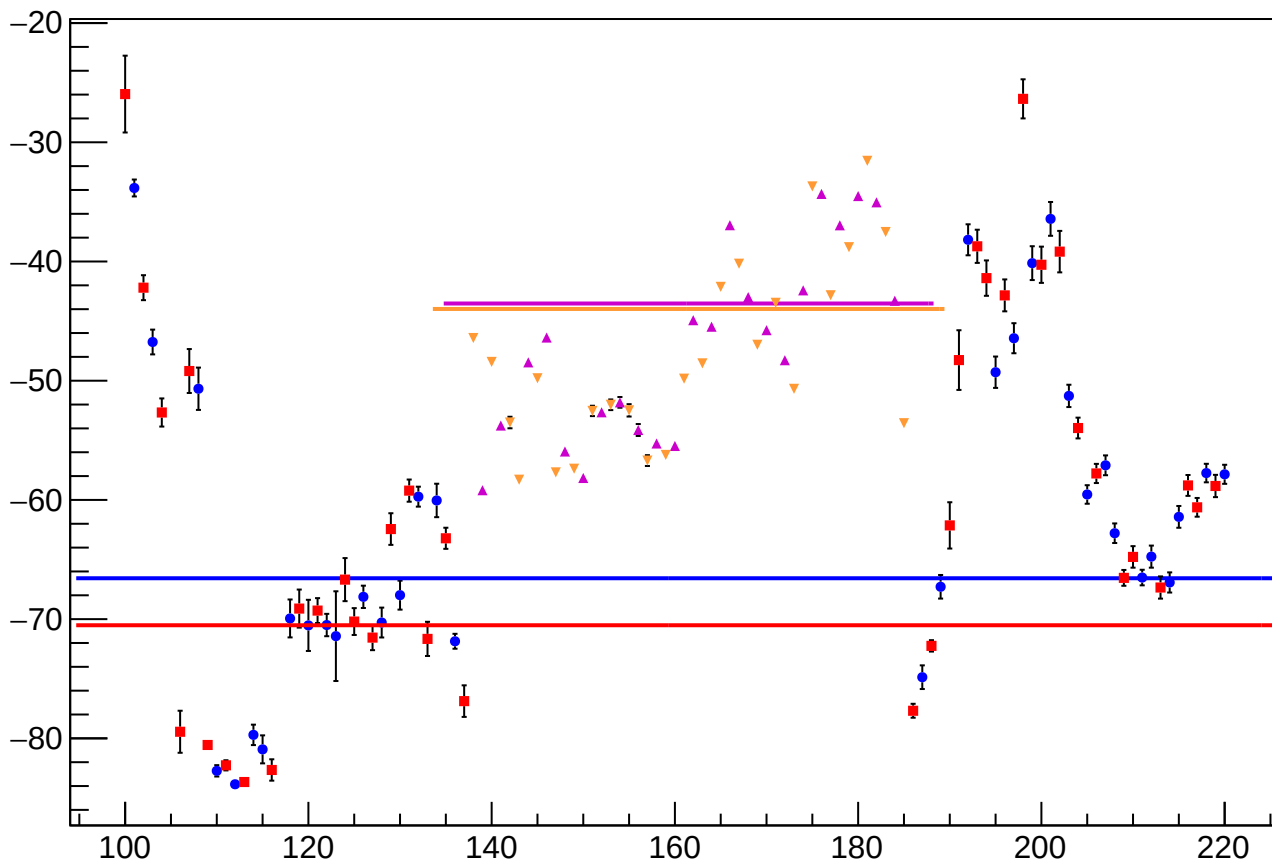
Right: 10.970 $\pm$ 0.079 χ^2 /NDF: 2191.6/70

In: 12.021 $\pm$ 0.047 χ^2 /NDF: 6881.7/56

Out: 12.211 $\pm$ 0.045 χ^2 /NDF: 8702.6/61

All: 12.119 $\pm$ 0.032 χ^2 /NDF: 15592.8/118

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.570 $\pm$ 0.149 χ^2 /NDF: 8924.5/33

Left Out: -43.982 $\pm$ 0.062 χ^2 /NDF:17736.8/24

Right Out: -70.513 $\pm$ 0.138 χ^2 /NDF: 8618.7/36

Left In: -43.523 $\pm$ 0.063 χ^2 /NDF:15267.1/22

Left: -43.757 $\pm$ 0.044 χ^2 /NDF: 33030.8/47

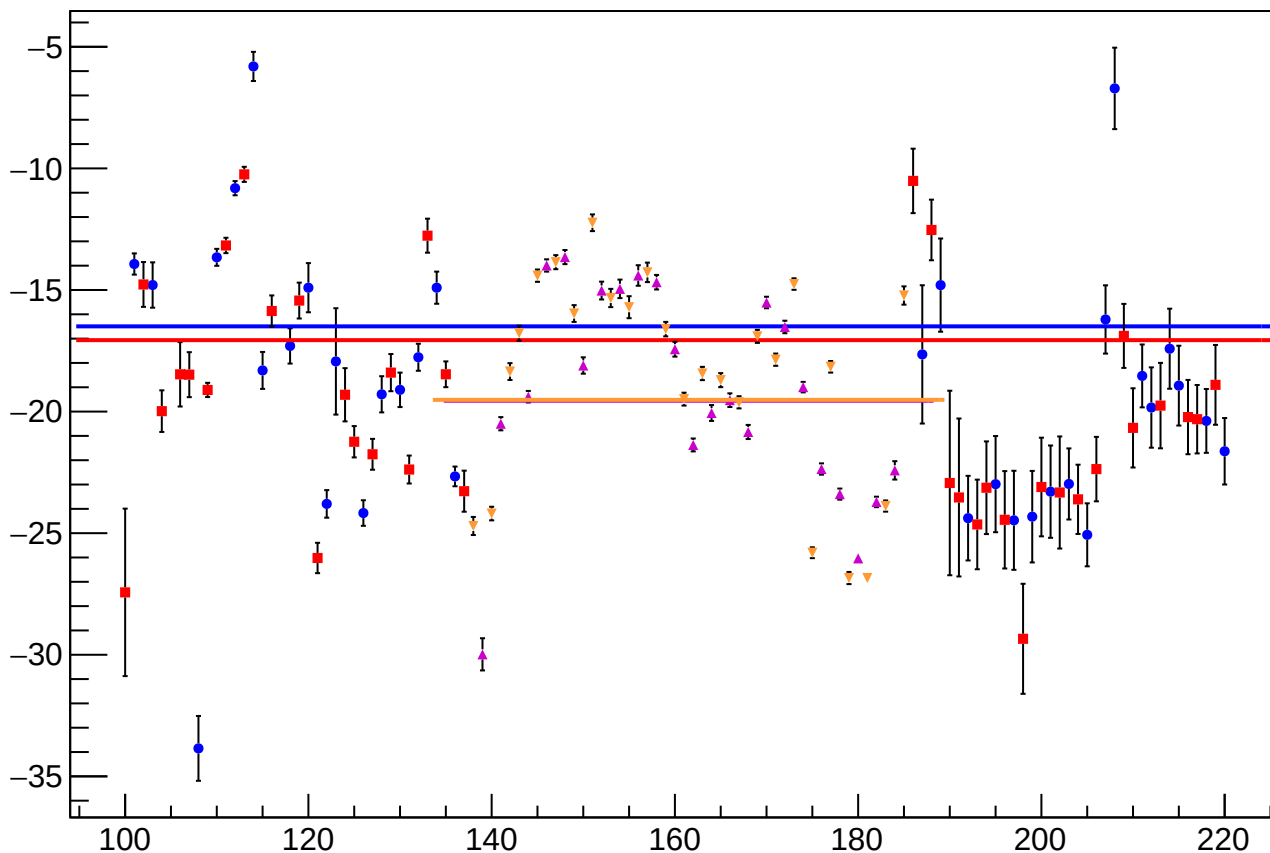
Right: -68.686 $\pm$ 0.101 χ^2 /NDF: 17920.9/70

In: -47.064 $\pm$ 0.058 χ^2 /NDF:44544.9/56

Out: -48.426 $\pm$ 0.057 χ^2 /NDF:57092.7/61

All: -47.766 $\pm$ 0.041 χ^2 /NDF: 101919.1/118

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.496 $\pm$ 0.126 χ^2 /NDF: 1837.5/33

Left Out: -19.517 $\pm$ 0.056 χ^2 /NDF: 6518.3/24

Right Out: -17.063 $\pm$ 0.122 χ^2 /NDF: 1401.8/36

Left In: -19.555 $\pm$ 0.057 χ^2 /NDF: 4311.2/22

Left: -19.536 $\pm$ 0.040 χ^2 /NDF: 10829.6/47

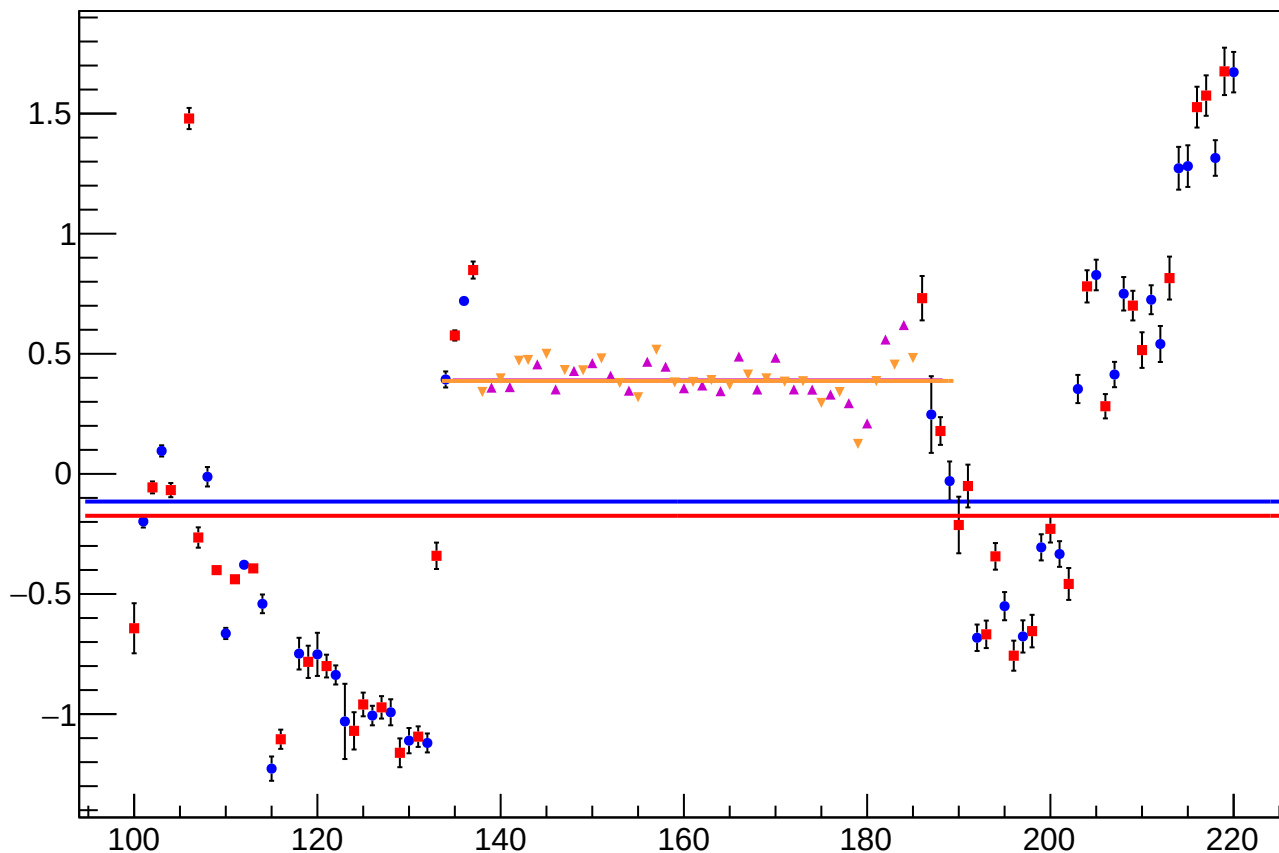
Right: -16.788 $\pm$ 0.088 χ^2 /NDF: 3249.7/70

In: -19.029 $\pm$ 0.052 χ^2 /NDF: 6638.4/56

Out: -19.093 $\pm$ 0.051 χ^2 /NDF: 8254.8/61

All: -19.062 $\pm$ 0.036 χ^2 /NDF: 14893.9/118

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.115 ± 0.007 χ^2/NDF : 8829.1/33

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.174 ± 0.007 χ^2/NDF : 8508.0/36

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

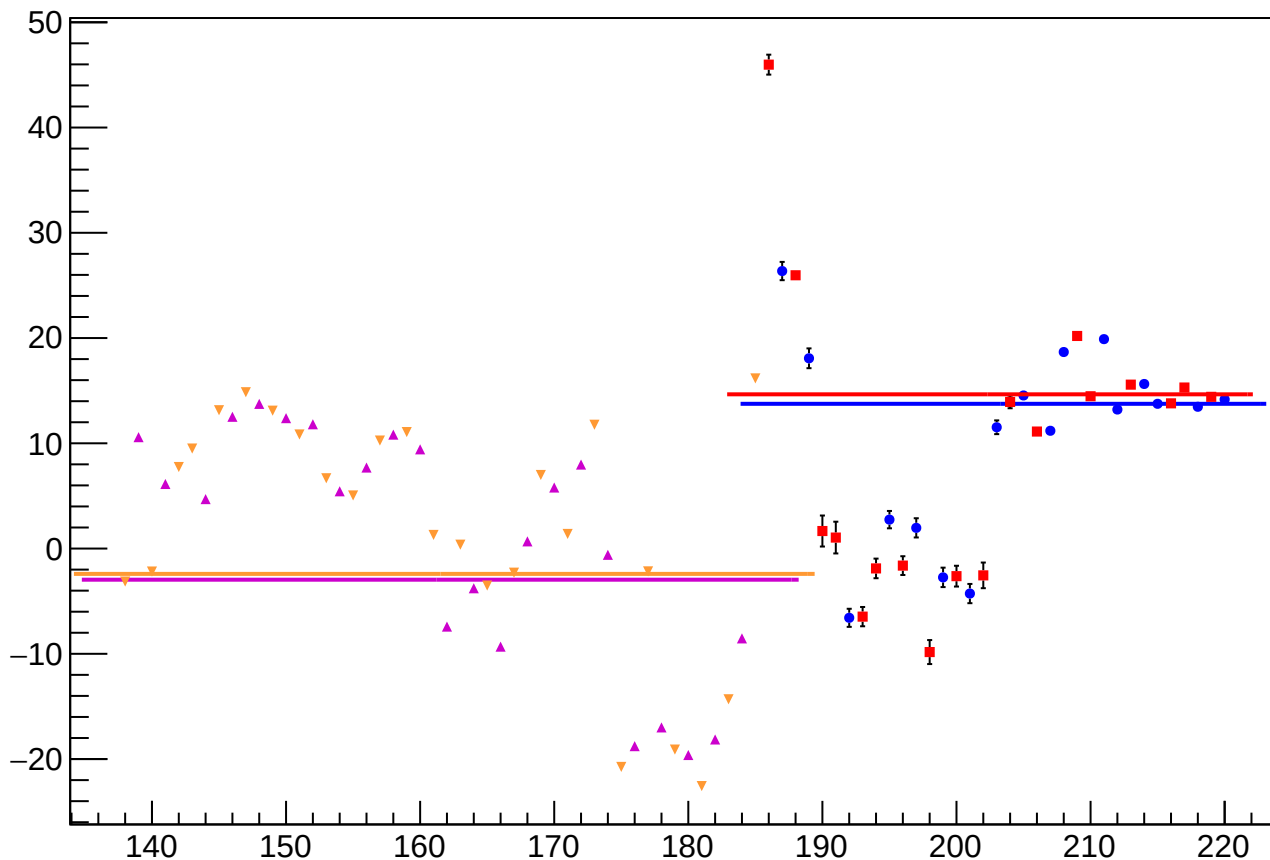
Right: -0.146 ± 0.005 χ^2/NDF : 17376.1/70

In: 0.325 ± 0.002 χ^2/NDF : 14826.0/56

Out: 0.313 ± 0.002 χ^2/NDF : 15852.6/61

All: 0.319 ± 0.002 χ^2/NDF : 30690.2/118

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.752 ± 0.119 $\chi^2/\text{NDF}: 2376.5/16$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.653 ± 0.125 $\chi^2/\text{NDF}: 4440.2/17$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

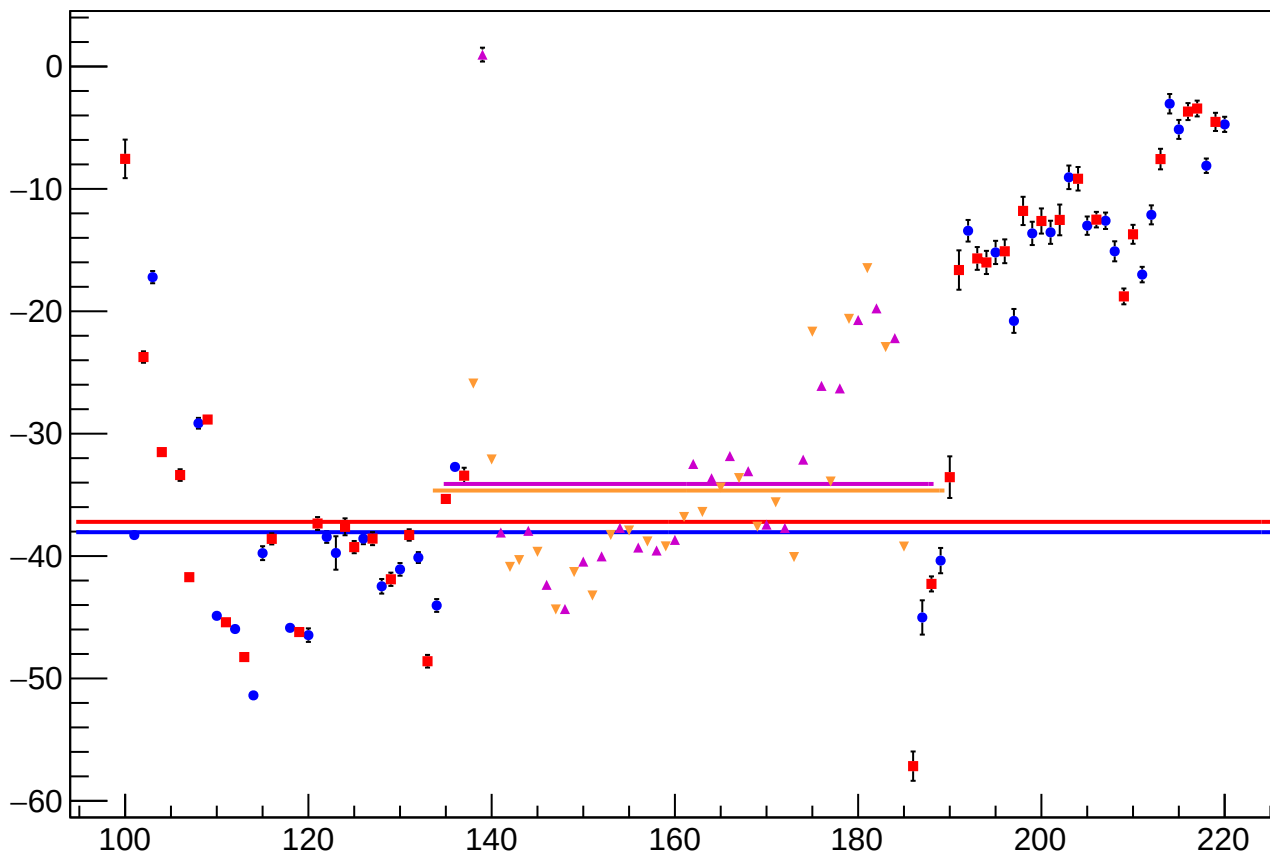
Right: 14.180 ± 0.086 $\chi^2/\text{NDF}: 6843.9/34$

In: -0.043 ± 0.050 $\chi^2/\text{NDF}: 64490.7/39$

Out: 0.161 ± 0.049 $\chi^2/\text{NDF}: 76539.1/42$

All: 0.061 ± 0.035 $\chi^2/\text{NDF}: 141038.5/82$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.049 ± 0.073 $\chi^2/\text{NDF}: 27991.8/33$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -37.205 ± 0.068 $\chi^2/\text{NDF}: 28724.1/36$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

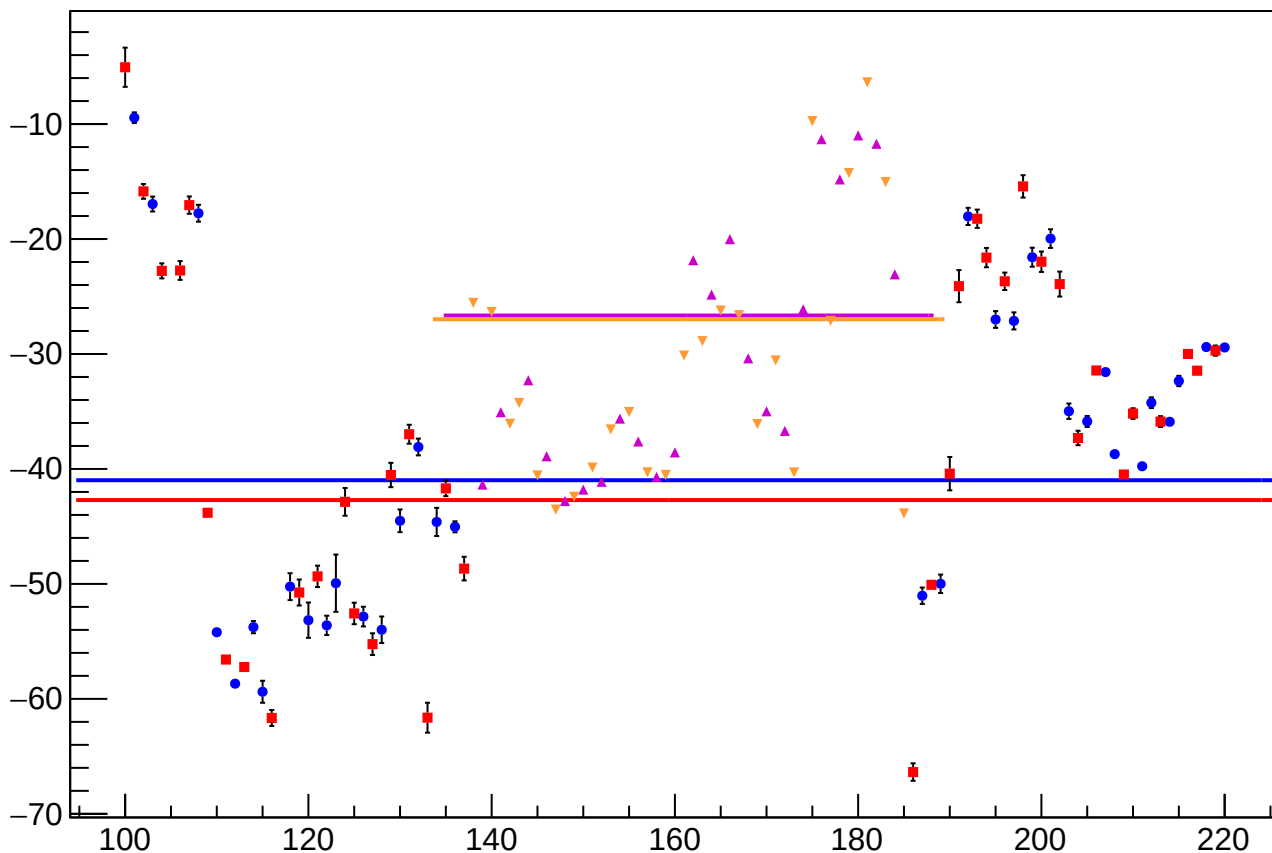
Right: -37.603 ± 0.050 $\chi^2/\text{NDF}: 56787.5/70$

In: -35.167 ± 0.038 $\chi^2/\text{NDF}: 59204.8/56$

Out: -35.341 ± 0.036 $\chi^2/\text{NDF}: 64418.4/61$

All: -35.259 ± 0.026 $\chi^2/\text{NDF}: 123634.5/118$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.981 ± 0.087 $\chi^2/\text{NDF}: 25082.7/33$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -42.709 ± 0.082 $\chi^2/\text{NDF}: 23754.8/36$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

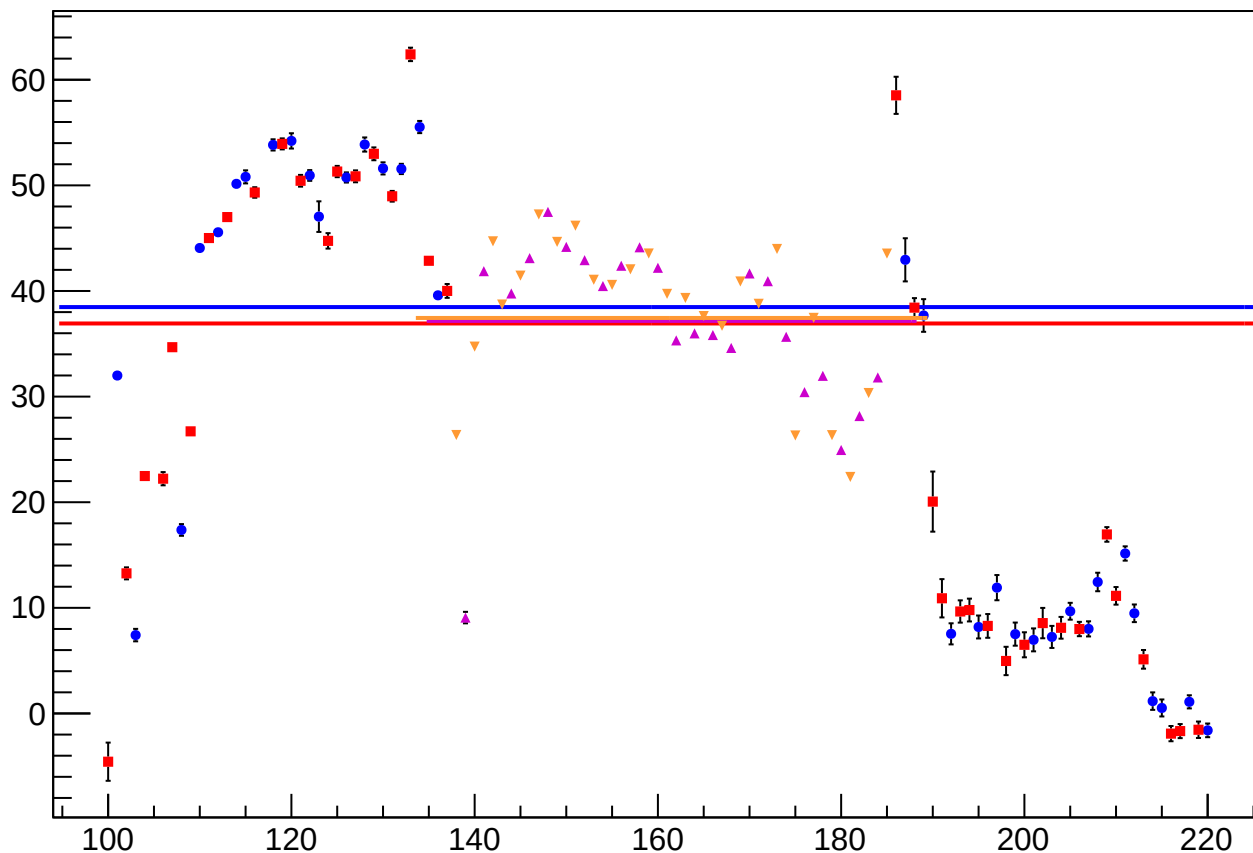
Right: -41.901 ± 0.060 $\chi^2/\text{NDF}: 49046.8/70$

In: -30.727 ± 0.046 $\chi^2/\text{NDF}: 86527.9/56$

Out: -31.663 ± 0.045 $\chi^2/\text{NDF}: 99168.6/61$

All: -31.215 ± 0.032 $\chi^2/\text{NDF}: 185907.6/118$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.477 ± 0.081 $\chi^2/\text{NDF}: 37038.9/33$

Left Out: 37.447 ± 0.047 $\chi^2/\text{NDF}: 21570.6/24$

Right Out: 36.924 ± 0.076 $\chi^2/\text{NDF}: 37934.6/36$

Left In: 37.169 ± 0.049 $\chi^2/\text{NDF}: 17236.9/22$

Left: 37.314 ± 0.034 $\chi^2/\text{NDF}: 38824.1/47$

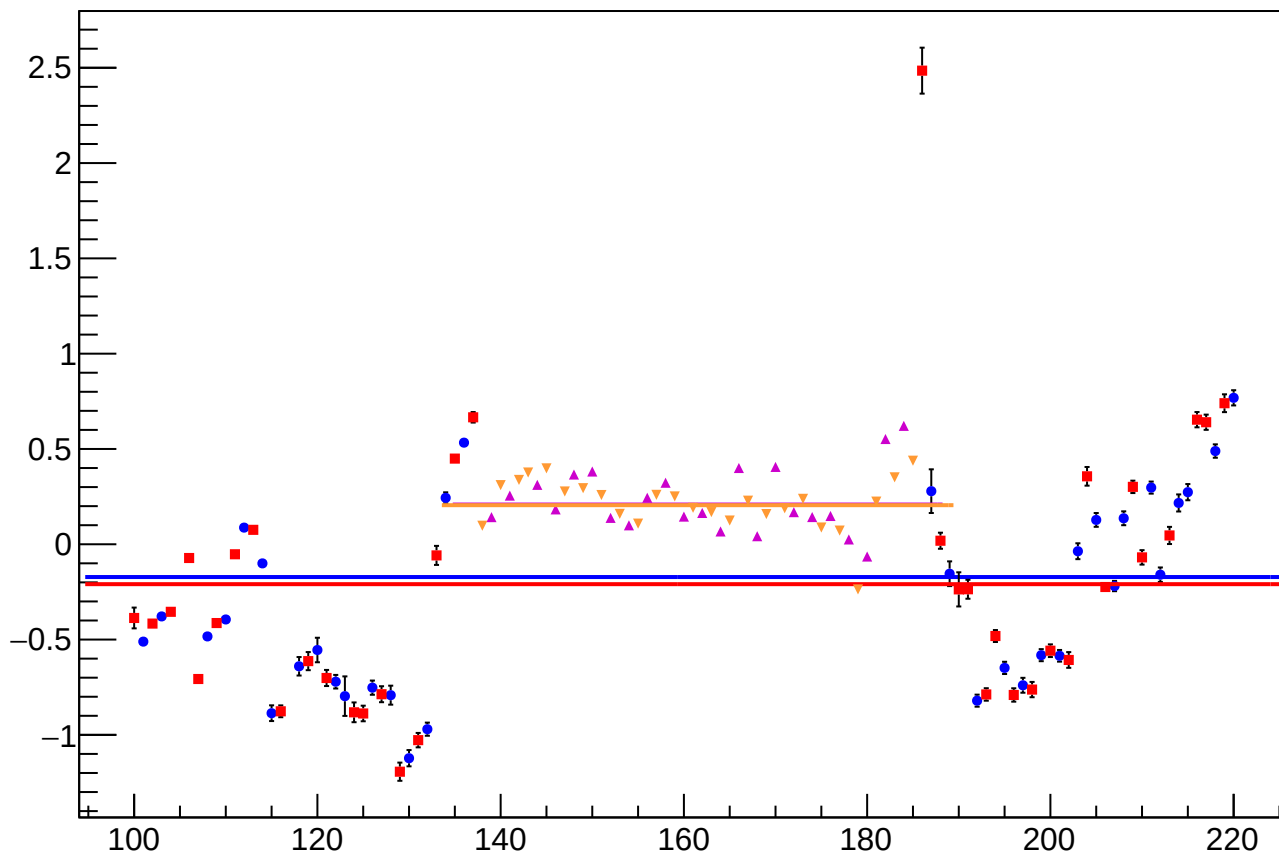
Right: 37.650 ± 0.055 $\chi^2/\text{NDF}: 75171.4/70$

In: 37.525 ± 0.042 $\chi^2/\text{NDF}: 54467.7/56$

Out: 37.300 ± 0.040 $\chi^2/\text{NDF}: 59539.8/61$

All: 37.407 ± 0.029 $\chi^2/\text{NDF}: 114022.5/118$

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.172 ± 0.004 χ^2/NDF : 10040.6/33

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.209 ± 0.004 χ^2/NDF : 10760.3/36

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

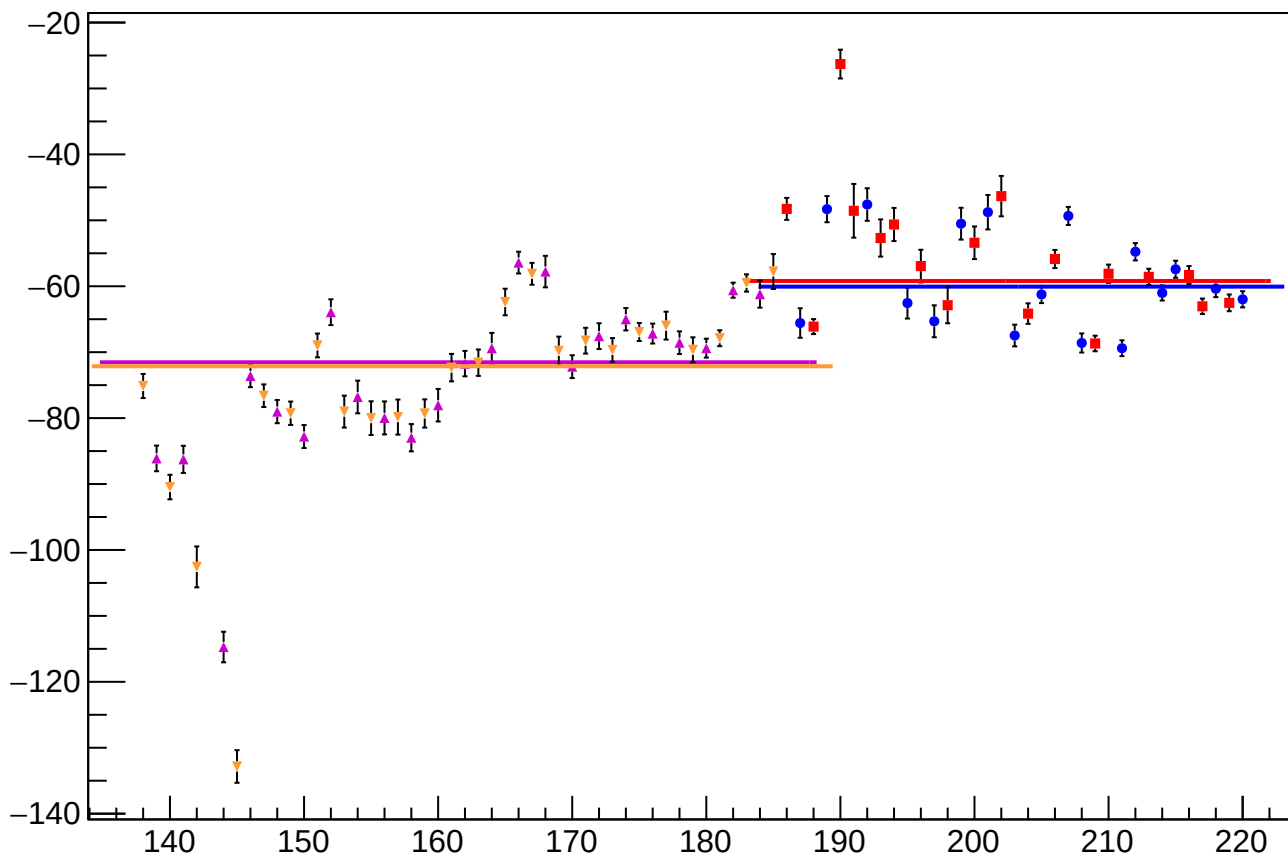
Right: -0.192 ± 0.003 χ^2/NDF : 20843.0/70

In: 0.126 ± 0.002 χ^2/NDF : 21385.2/56

Out: 0.107 ± 0.002 χ^2/NDF : 23200.2/61

All: 0.116 ± 0.001 χ^2/NDF : 44632.2/118

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -60.059 $\pm$ 0.373 χ^2/NDF : 308.3/16

Left Out: -72.138 $\pm$ 0.383 χ^2/NDF : 1121.3/23

Right Out: -59.198 $\pm$ 0.378 χ^2/NDF : 455.5/17

Left In: -71.534 $\pm$ 0.382 χ^2/NDF : 851.4/22

Left: -71.835 $\pm$ 0.270 χ^2/NDF : 1974.0/46

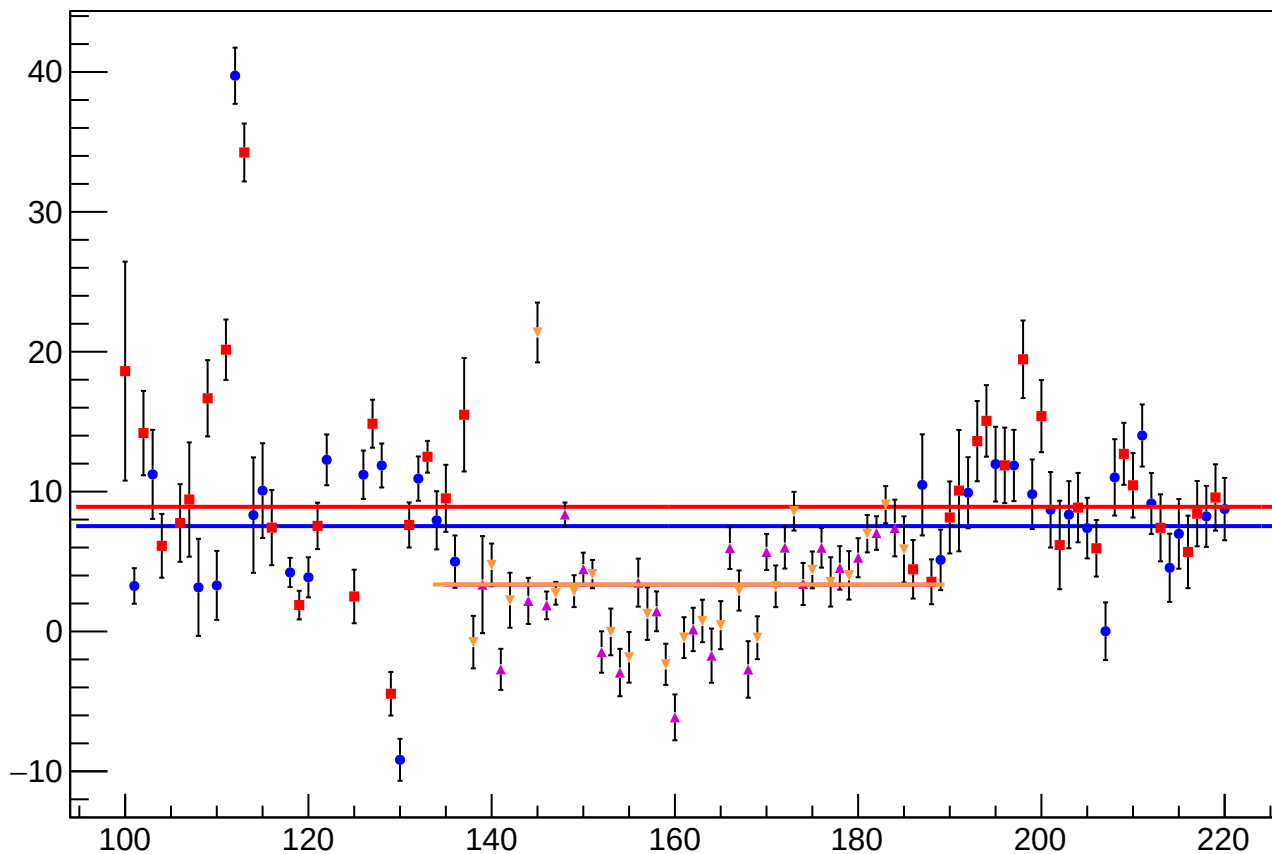
Right: -59.634 $\pm$ 0.266 χ^2/NDF : 766.4/34

In: -65.670 $\pm$ 0.267 χ^2/NDF : 1621.6/39

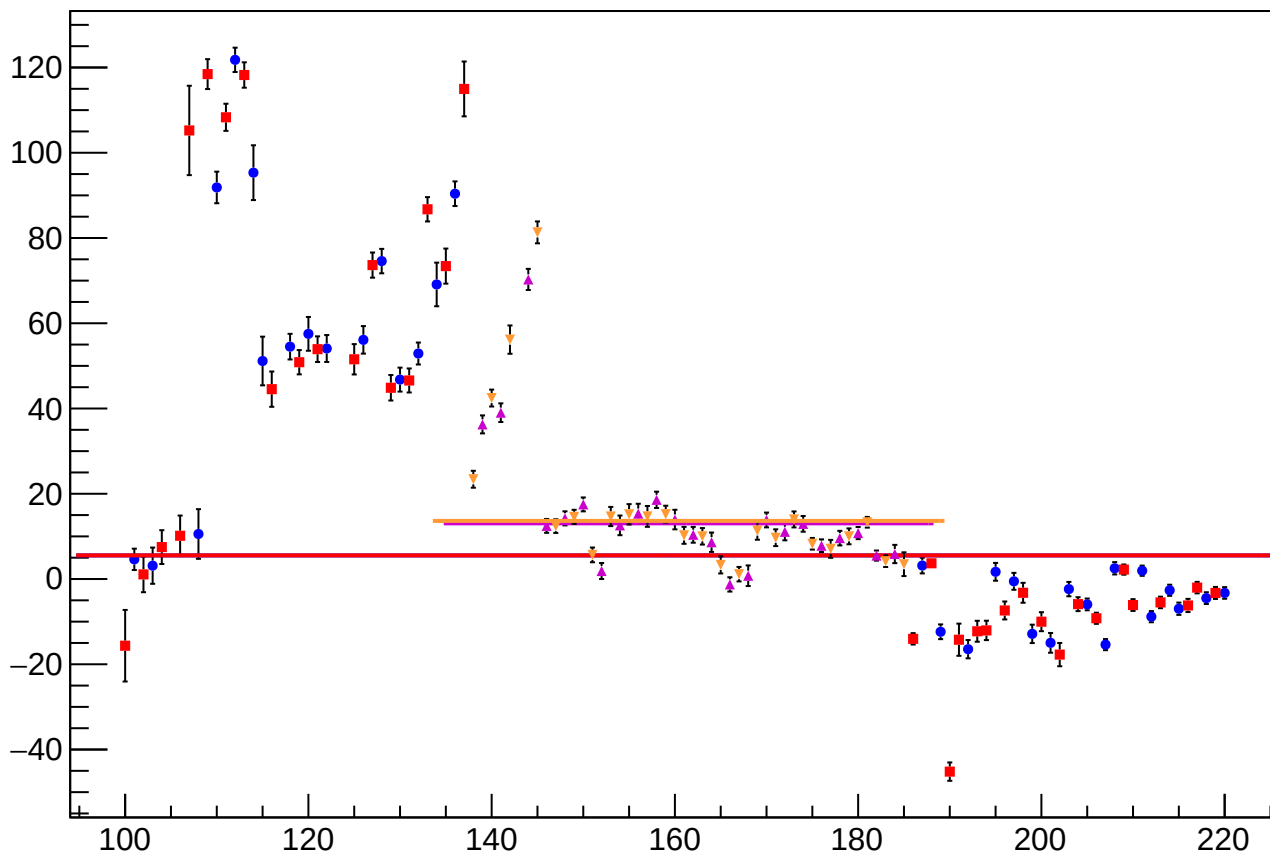
Out: -65.592 $\pm$ 0.269 χ^2/NDF : 2154.8/41

All: -65.631 $\pm$ 0.190 χ^2/NDF : 3776.4/81

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.530 $\pm$ 0.343 χ^2 /NDF: 6597.7/32

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 5.546 $\pm$ 0.338 χ^2 /NDF: 8205.2/35

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

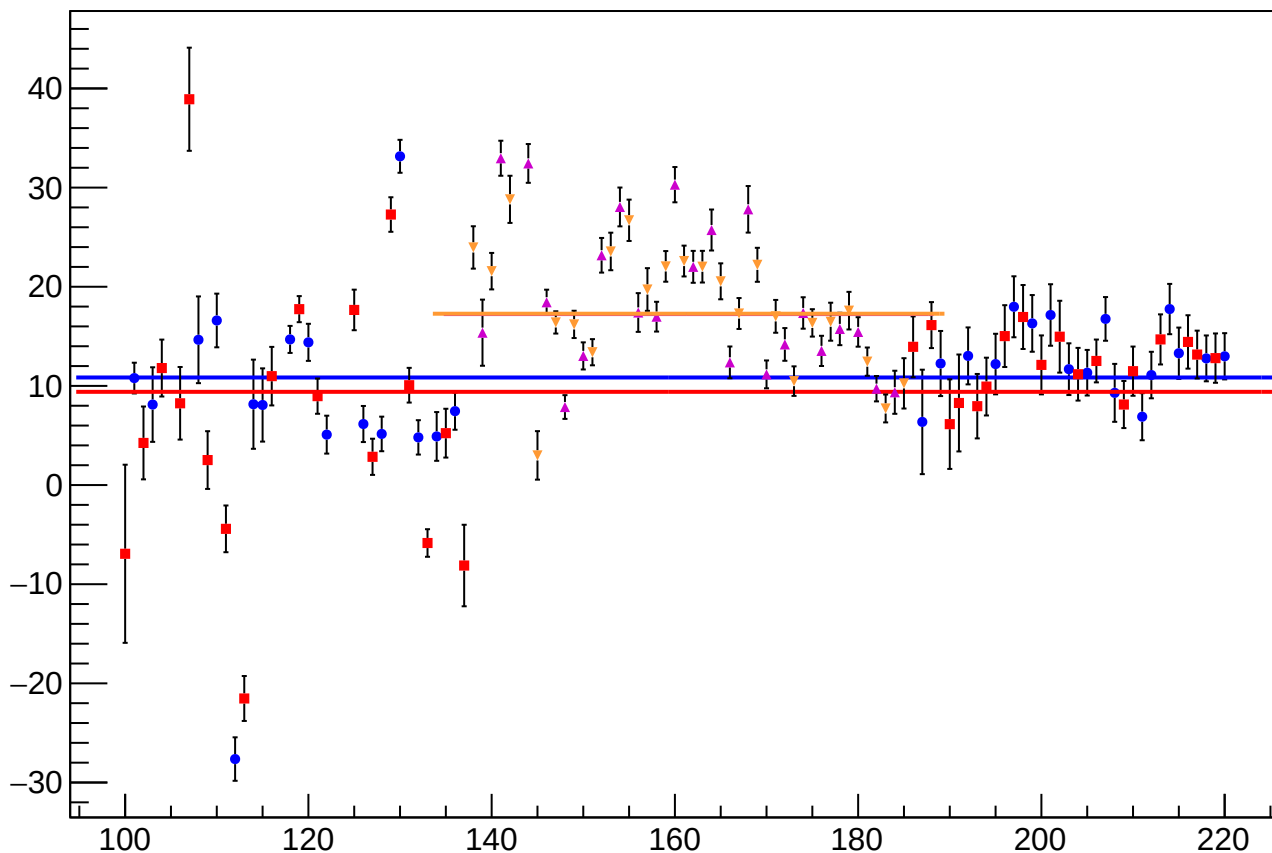
Right: 5.538 $\pm$ 0.241 χ^2 /NDF: 14802.9/68

In: 8.912 $\pm$ 0.255 χ^2 /NDF:7838.8/55

Out: 9.100 $\pm$ 0.253 χ^2 /NDF:9756.7/59

All: 9.007 $\pm$ 0.179 χ^2 /NDF: 17595.7/115

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.849 ± 0.400 $\chi^2/\text{NDF}: 589.4/32$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 9.403 ± 0.406 $\chi^2/\text{NDF}: 619.8/35$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

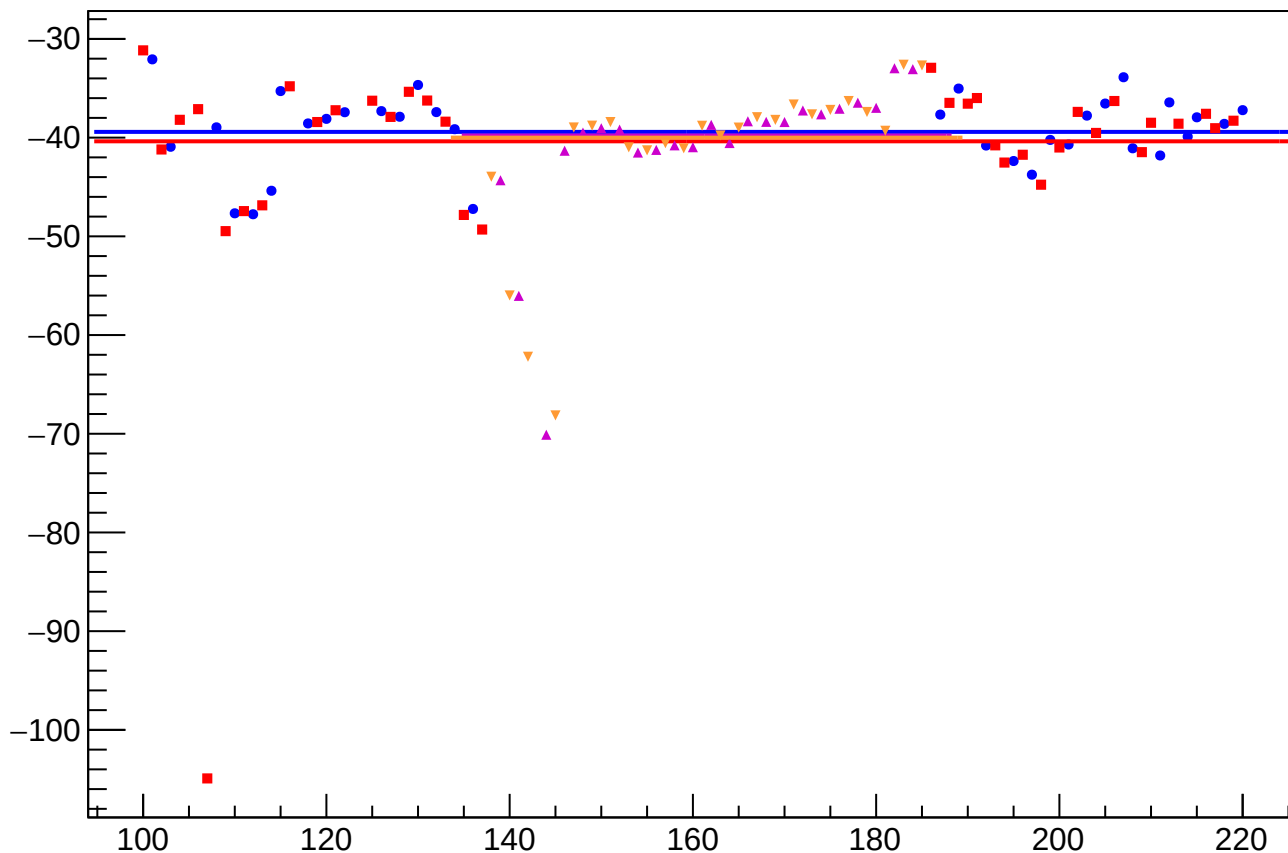
Right: 10.138 ± 0.285 $\chi^2/\text{NDF}: 1215.6/68$

In: 14.564 ± 0.259 $\chi^2/\text{NDF}: 1179.0/55$

Out: 14.066 ± 0.259 $\chi^2/\text{NDF}: 1086.5/59$

All: 14.316 ± 0.183 $\chi^2/\text{NDF}: 2267.3/115$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.418 ± 0.020 $\chi^2/\text{NDF}: 38184.5/32$

Left Out: -39.999 ± 0.016 $\chi^2/\text{NDF}: 172263.8/23$

Right Out: -40.374 ± 0.020 $\chi^2/\text{NDF}: 107993.6/35$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.891 ± 0.011 $\chi^2/\text{NDF}: 316851.8/46$

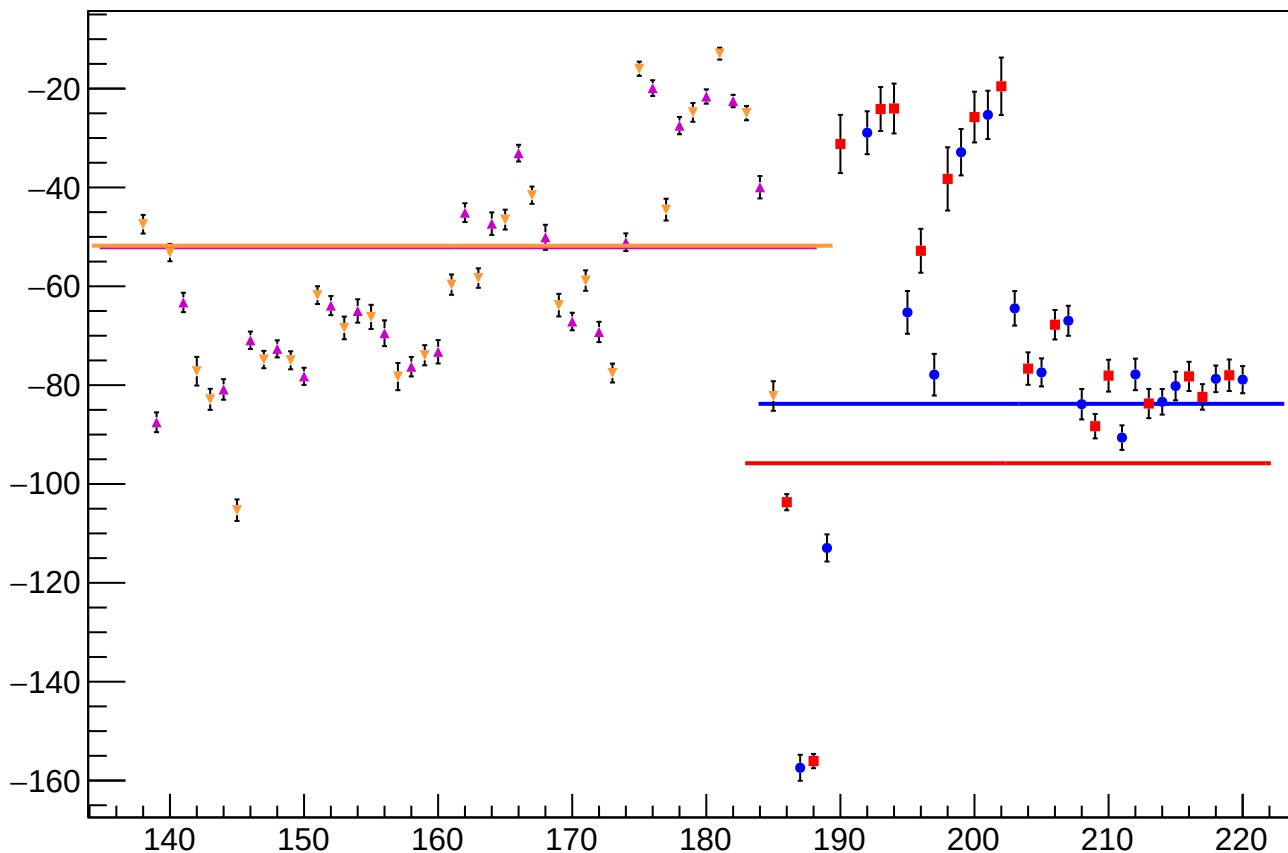
Right: -39.897 ± 0.014 $\chi^2/\text{NDF}: 147319.4/68$

In: -39.646 ± 0.012 $\chi^2/\text{NDF}: 182887.2/55$

Out: -40.143 ± 0.012 $\chi^2/\text{NDF}: 280474.0/59$

All: -39.893 ± 0.009 $\chi^2/\text{NDF}: 464171.3/115$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -83.779 ± 0.757 χ^2/NDF : 1421.9/16

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -95.801 ± 0.697 χ^2/NDF : 3146.8/16

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

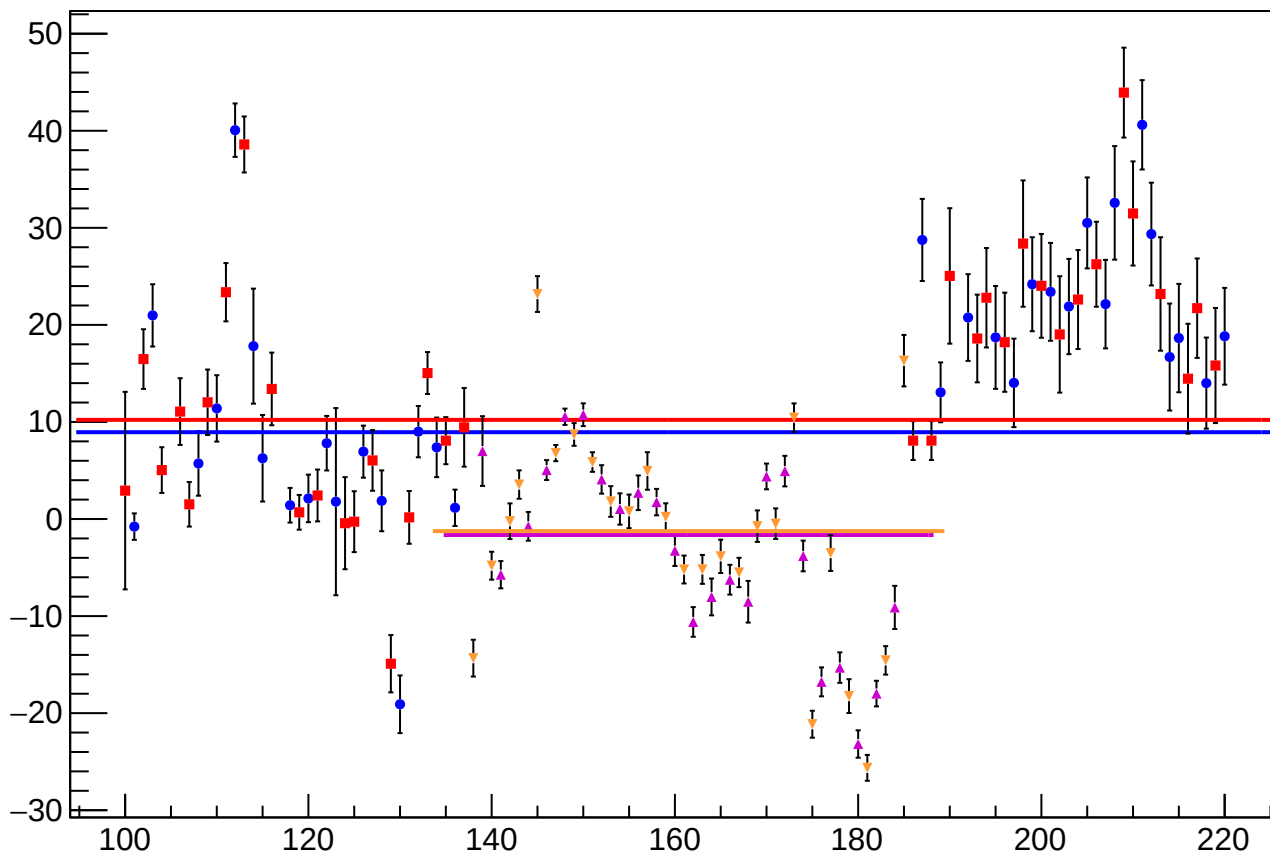
Right: -90.281 ± 0.513 χ^2/NDF : 4705.1/33

In: -58.716 ± 0.346 χ^2/NDF : 6088.4/39

Out: -61.974 ± 0.335 χ^2/NDF : 10374.2/41

All: -60.394 ± 0.241 χ^2/NDF : 16508.4/81

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.945 ± 0.550 $\chi^2/\text{NDF}: 514.1/33$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.215 ± 0.543 $\chi^2/\text{NDF}: 422.3/35$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

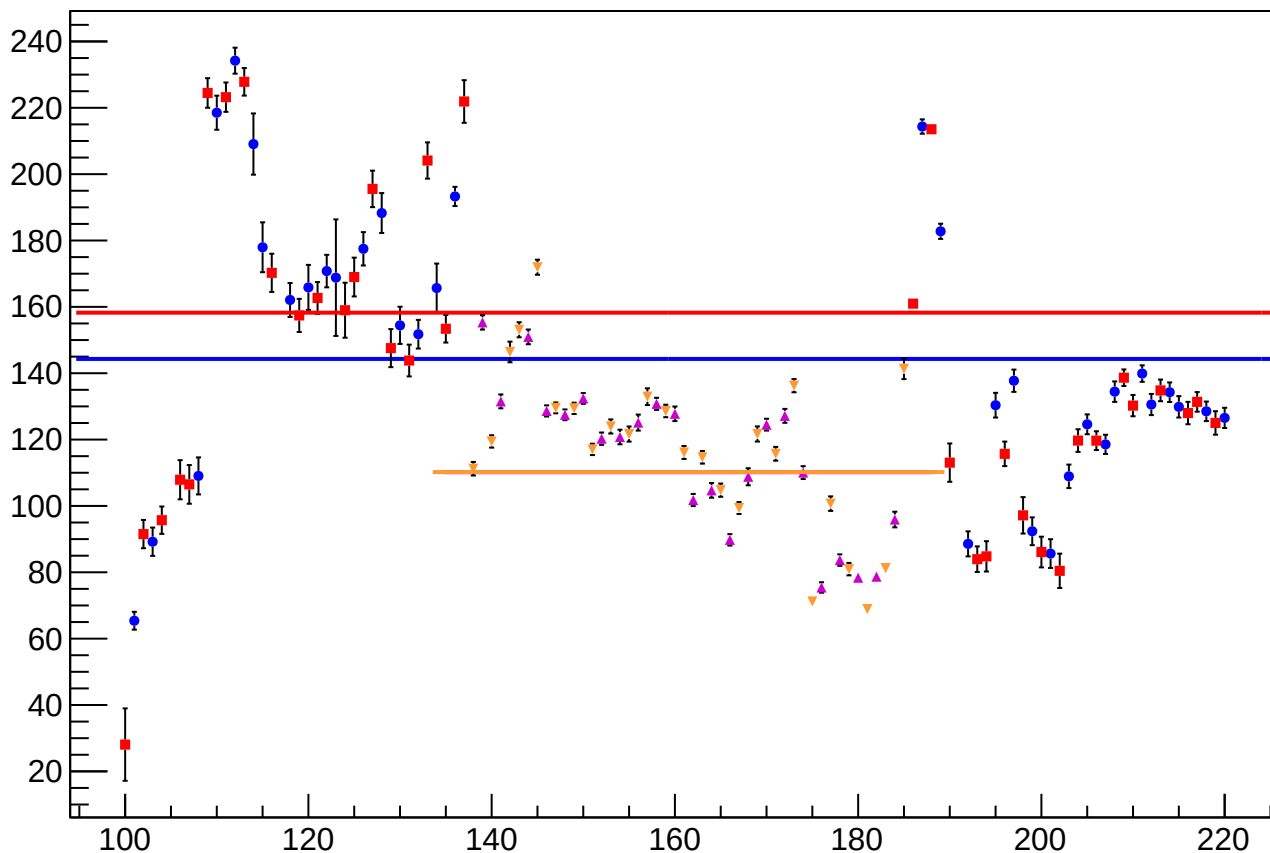
Right: 9.588 ± 0.386 $\chi^2/\text{NDF}: 939.1/69$

In: 0.781 ± 0.263 $\chi^2/\text{NDF}: 1892.2/56$

Out: 1.320 ± 0.257 $\chi^2/\text{NDF}: 2090.5/60$

All: 1.057 ± 0.184 $\chi^2/\text{NDF}: 3984.8/117$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 144.308 $\pm$ 0.619 χ^2 /NDF: 4579.9/33

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 158.252 $\pm$ 0.557 χ^2 /NDF: 6163.6/35

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

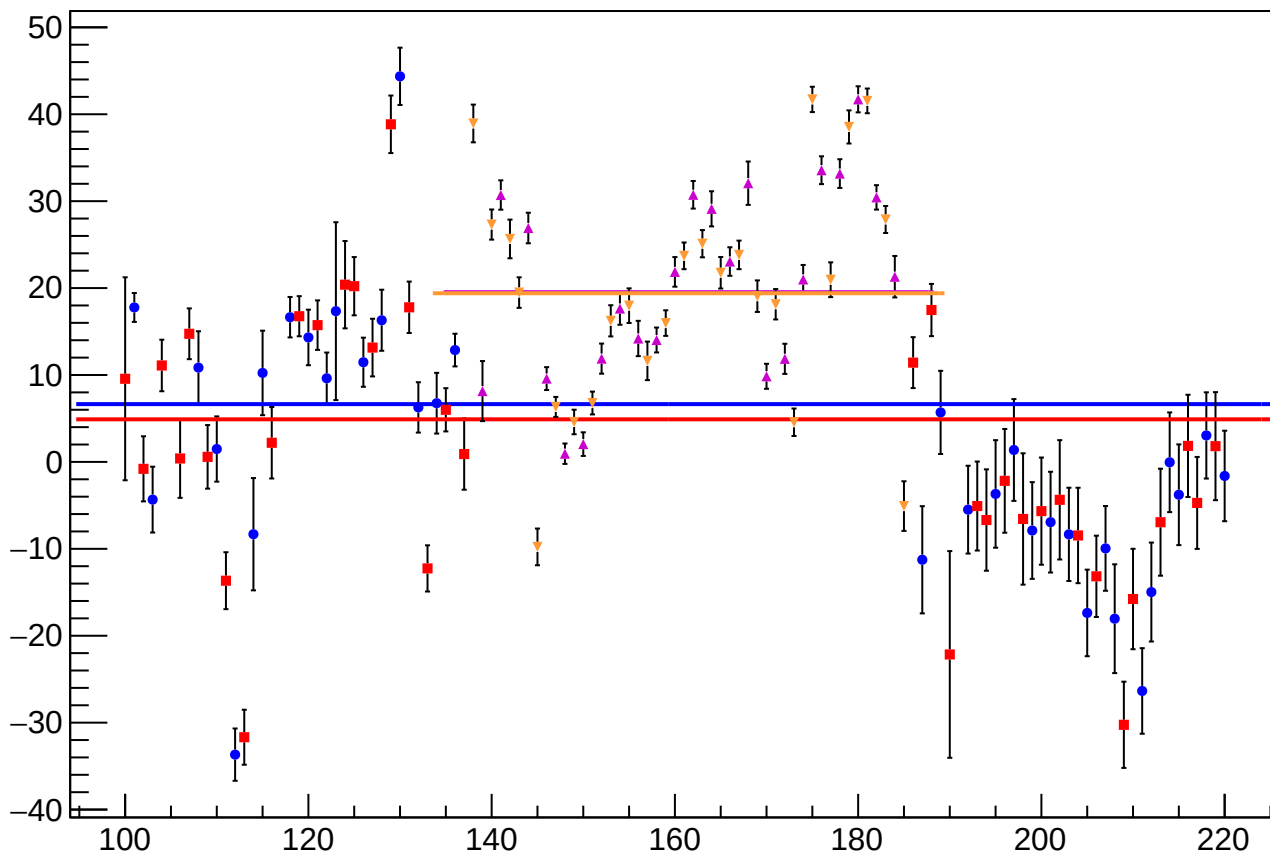
Right: 152.019 $\pm$ 0.414 χ^2 /NDF: 11024.1/69

In: 119.727 $\pm$ 0.328 χ^2 /NDF:10472.0/56

Out: 125.598 $\pm$ 0.315 χ^2 /NDF:15821.1/60

All: 122.777 $\pm$ 0.227 χ^2 /NDF: 26460.1/117

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.648 $\pm$ 0.632 χ^2/NDF : 575.7/33

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 4.900 $\pm$ 0.639 χ^2/NDF : 566.6/35

Left In: 19.530 $\pm$ 0.342 χ^2/NDF :1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2/NDF : 2634.8/47

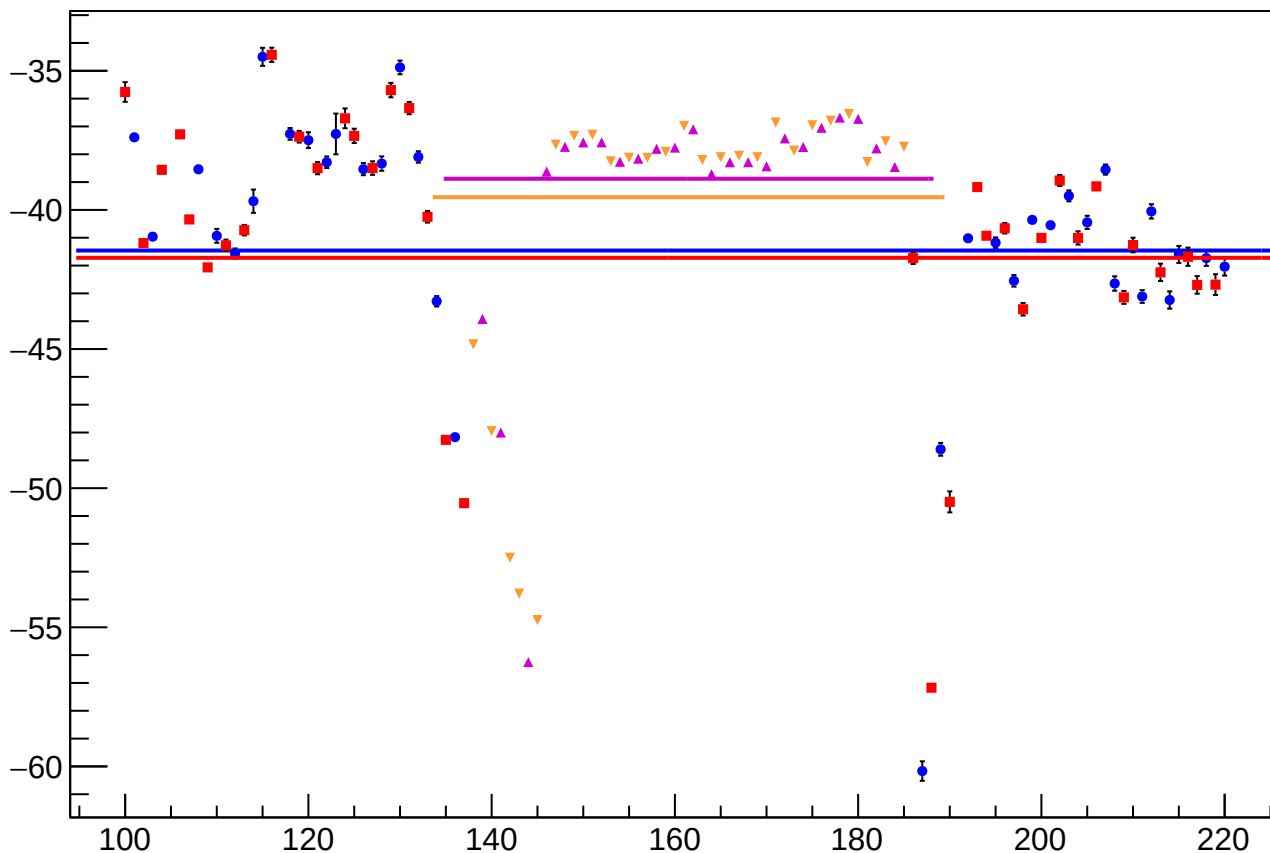
Right: 5.784 $\pm$ 0.449 χ^2/NDF : 1146.1/69

In: 16.605 $\pm$ 0.301 χ^2/NDF :2078.3/56

Out: 16.286 $\pm$ 0.297 χ^2/NDF :2423.9/60

All: 16.443 $\pm$ 0.211 χ^2/NDF : 4502.7/117

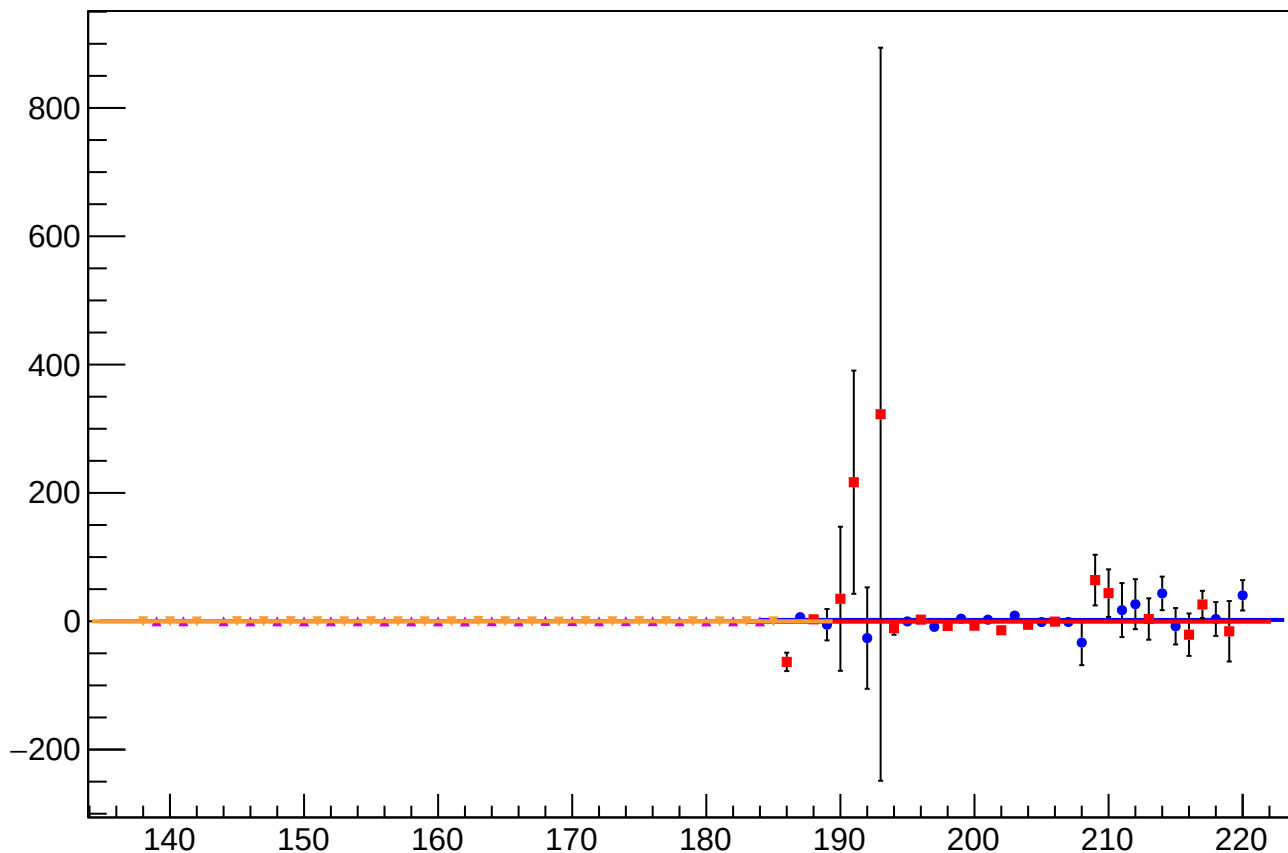
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.459 ± 0.031 $\chi^2/\text{NDF}: 16960.9/33$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.721 ± 0.031 $\chi^2/\text{NDF}: 23130.1/35$
 Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$
 Right: -41.591 ± 0.022 $\chi^2/\text{NDF}: 40126.6/69$
 In: -39.410 ± 0.014 $\chi^2/\text{NDF}: 75808.4/56$
 Out: -39.987 ± 0.014 $\chi^2/\text{NDF}: 119072.0/60$
 All: -39.701 ± 0.010 $\chi^2/\text{NDF}: 195717.4/117$

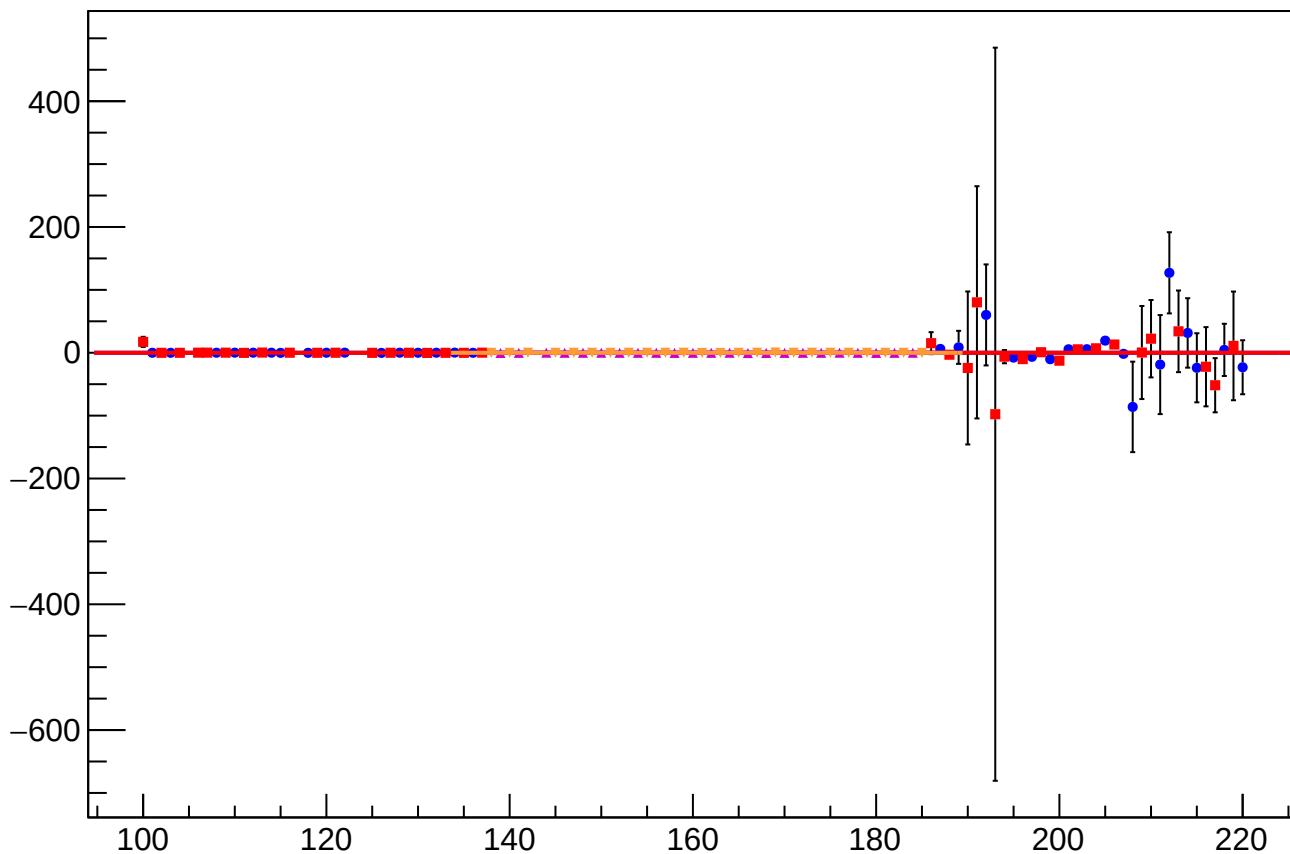
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.035 ± 1.523 $\chi^2/\text{NDF}: 18.1/16$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.768 ± 1.414 $\chi^2/\text{NDF}: 38.8/17$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.529 ± 1.036 $\chi^2/\text{NDF}: 58.7/34$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 53.2/39$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 78.7/41$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 136.0/81$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 38.1/32

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.1/35

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

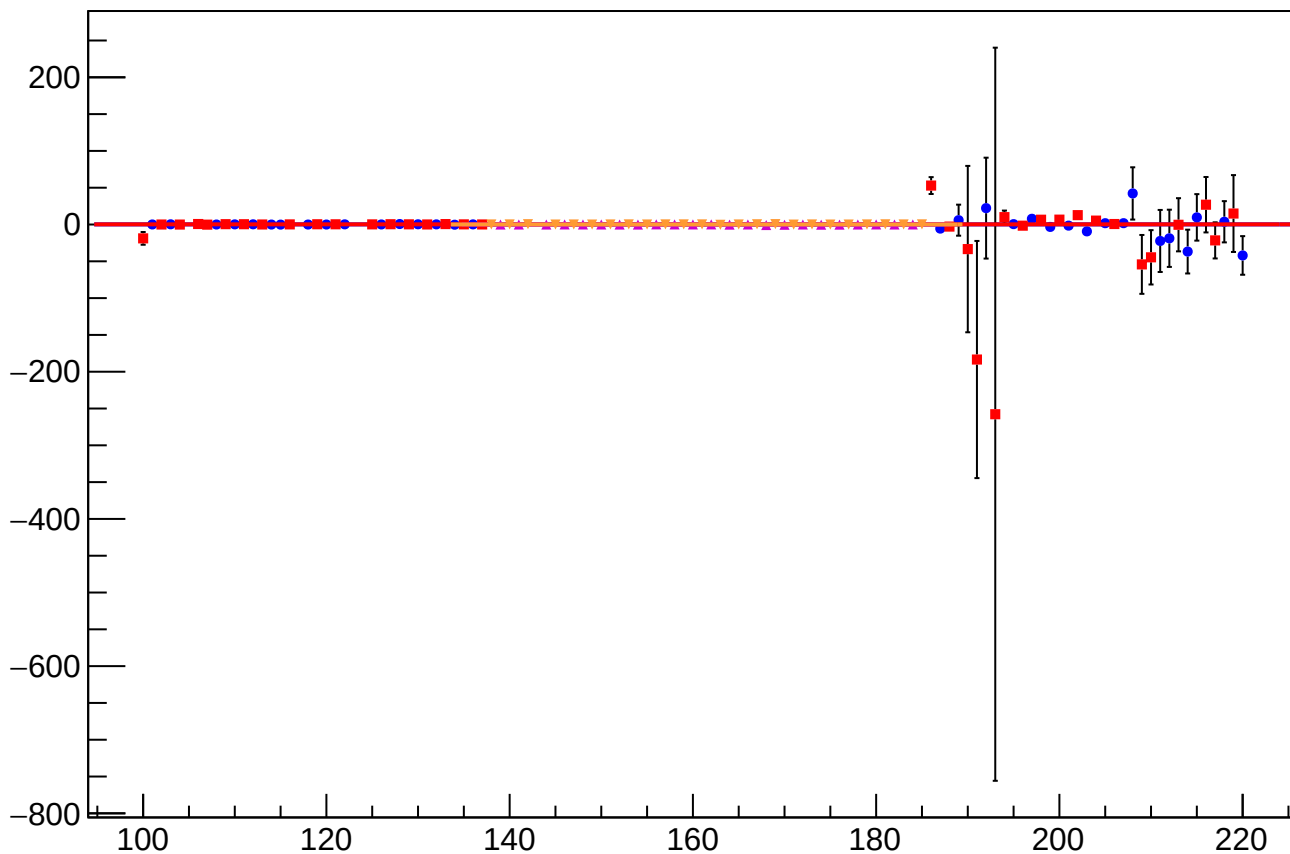
Right: -0.025 ± 0.020 χ^2/NDF : 82.6/68

In: -0.038 ± 0.015 χ^2/NDF : 72.1/55

Out: -0.073 ± 0.015 χ^2/NDF : 69.7/59

All: -0.056 ± 0.011 χ^2/NDF : 144.5/115

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 33.3/32

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 61.7/35

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

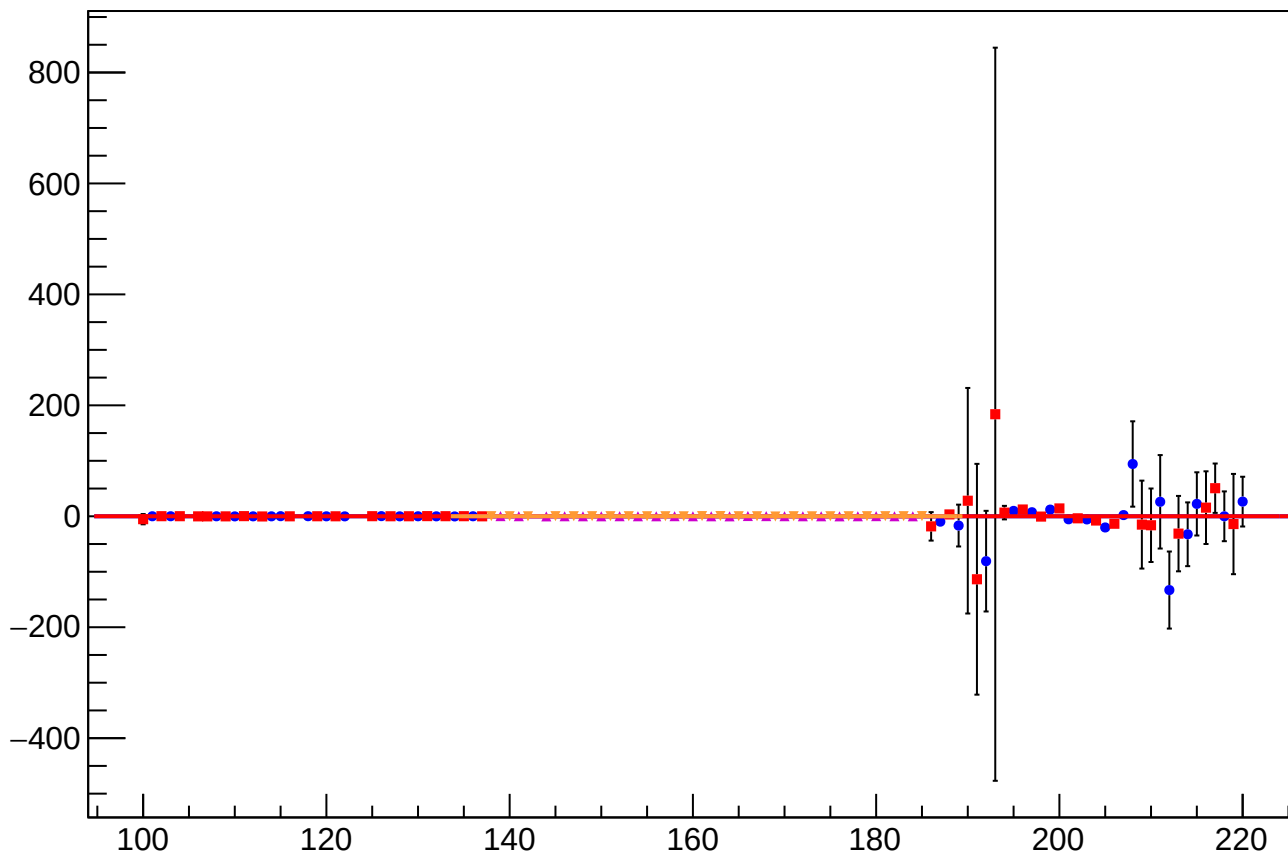
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 95.7/68

In: 0.043 $\pm$ 0.020 χ^2 /NDF:75.9/55

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:107.1/59

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 187.4/115

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 39.5/32

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 36.3/35

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

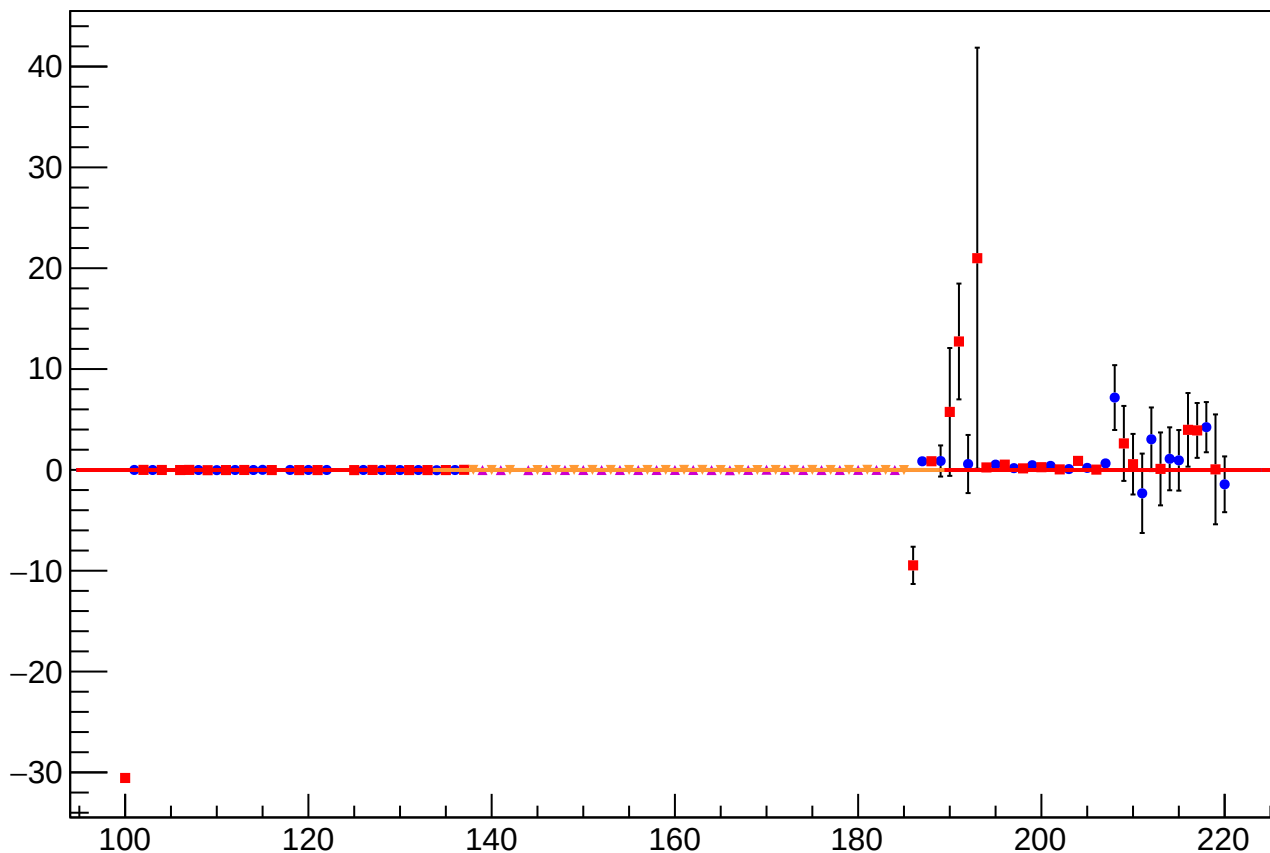
Right: 0.024 ± 0.024 χ^2/NDF : 77.6/68

In: 0.049 ± 0.017 χ^2/NDF : 74.8/55

Out: 0.093 ± 0.017 χ^2/NDF : 67.2/59

All: 0.071 ± 0.012 χ^2/NDF : 145.4/115

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 51.3/32

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.1/35

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

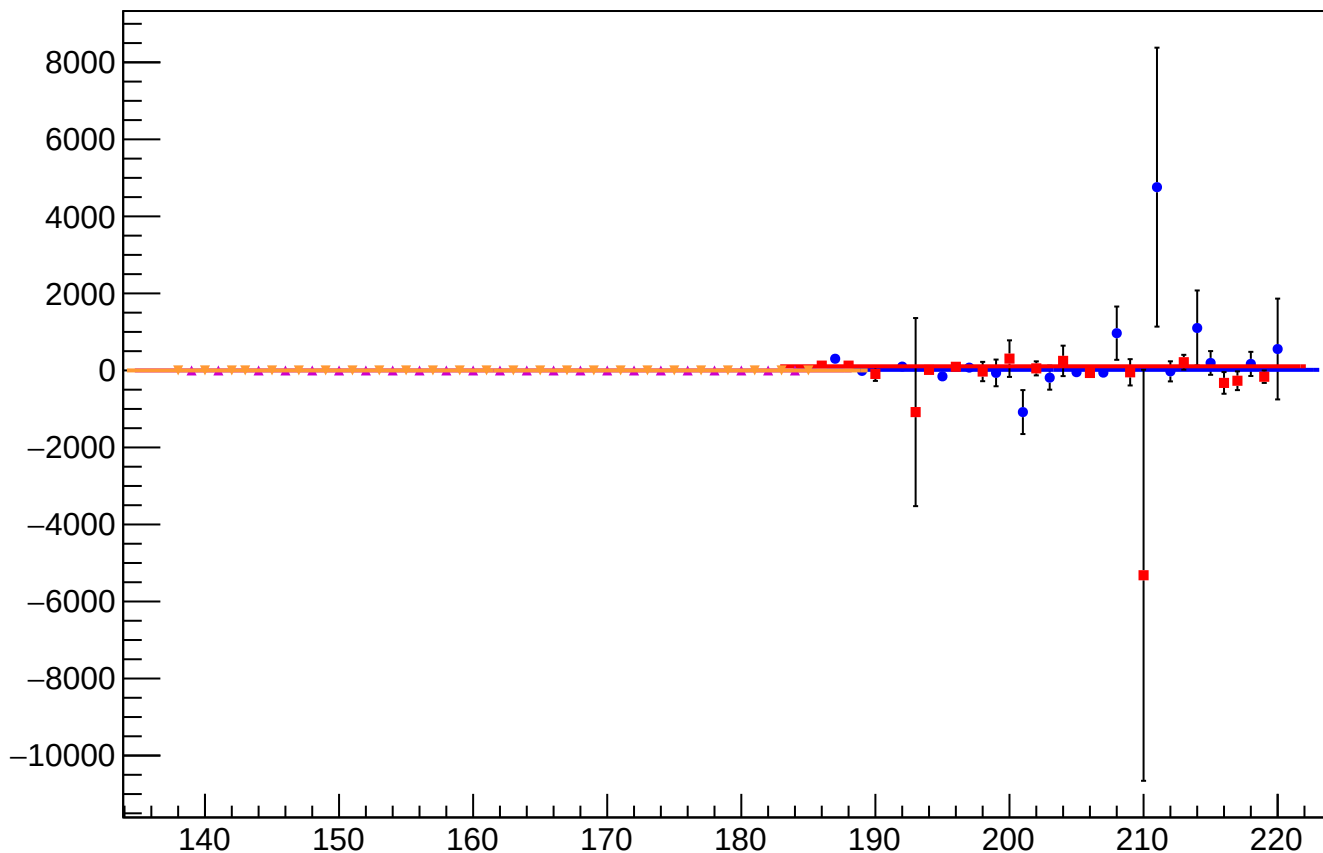
Right: -0.012 ± 0.001 χ^2/NDF : 12009.4/68

In: -0.009 ± 0.001 χ^2/NDF : 94.2/55

Out: -0.009 ± 0.001 χ^2/NDF : 11992.0/59

All: -0.009 ± 0.001 χ^2/NDF : 12086.5/115

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.084+/-25.716 χ^2/NDF : 26.0/16

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 107.475+/-15.970 χ^2/NDF : 16.5/16

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

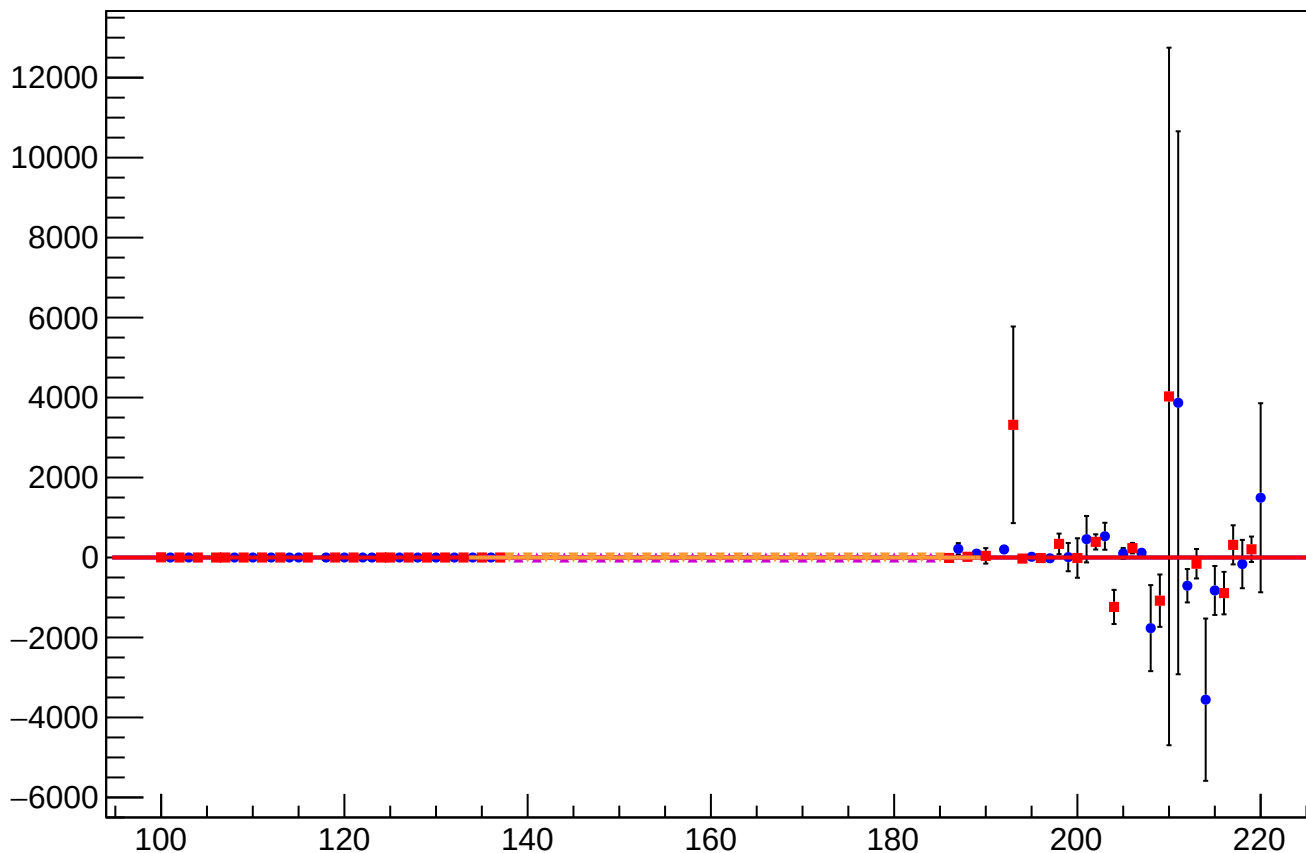
Right: 81.761+/-13.567 χ^2/NDF : 51.8/33

In: 0.002+/-0.028 χ^2/NDF :55.3/39

Out: 0.018+/-0.027 χ^2/NDF :92.7/41

All: 0.010+/-0.019 χ^2/NDF : 148.2/81

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 50.3/33$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 45.0/35$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

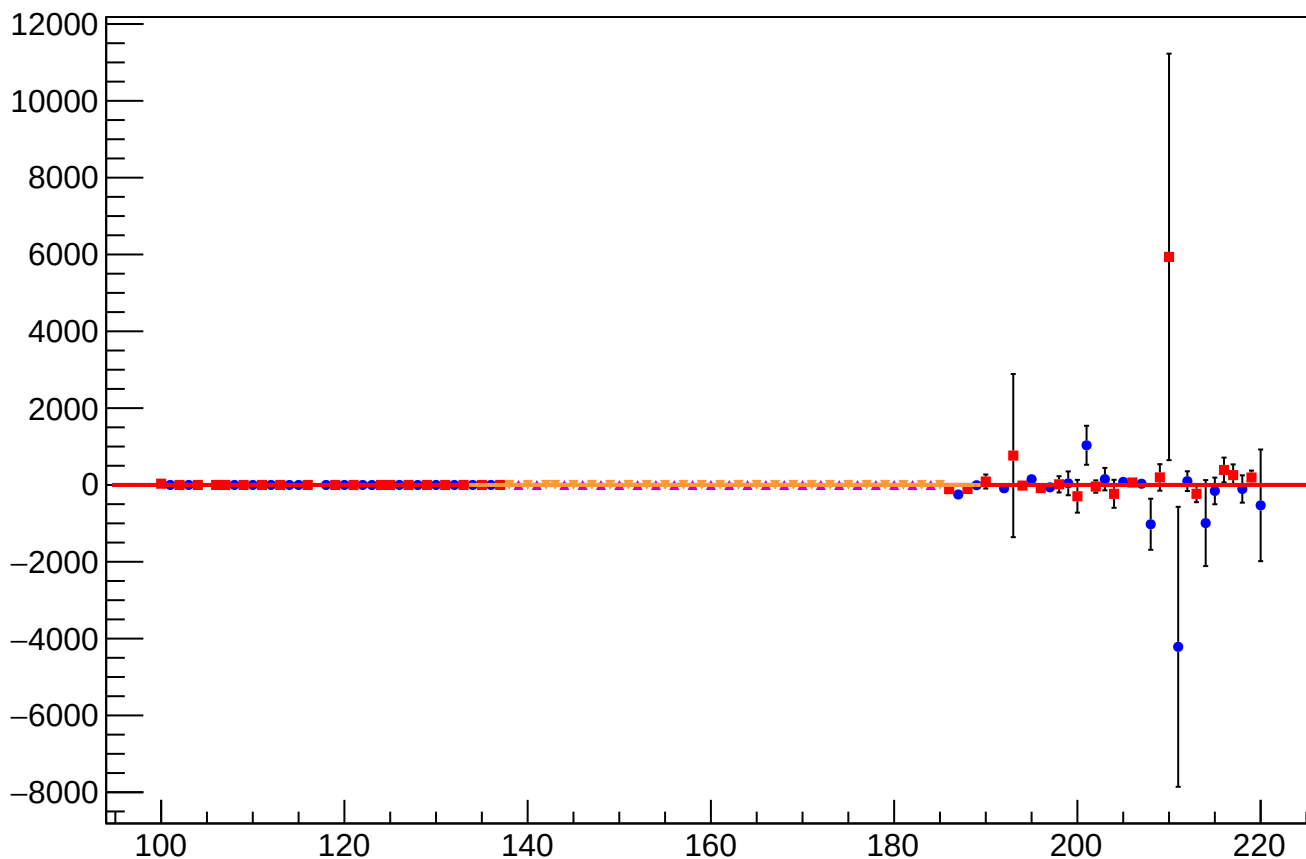
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 98.6/69$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.5/56$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 71.5/60$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 172.4/117$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 51.2/33$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 85.3/35$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

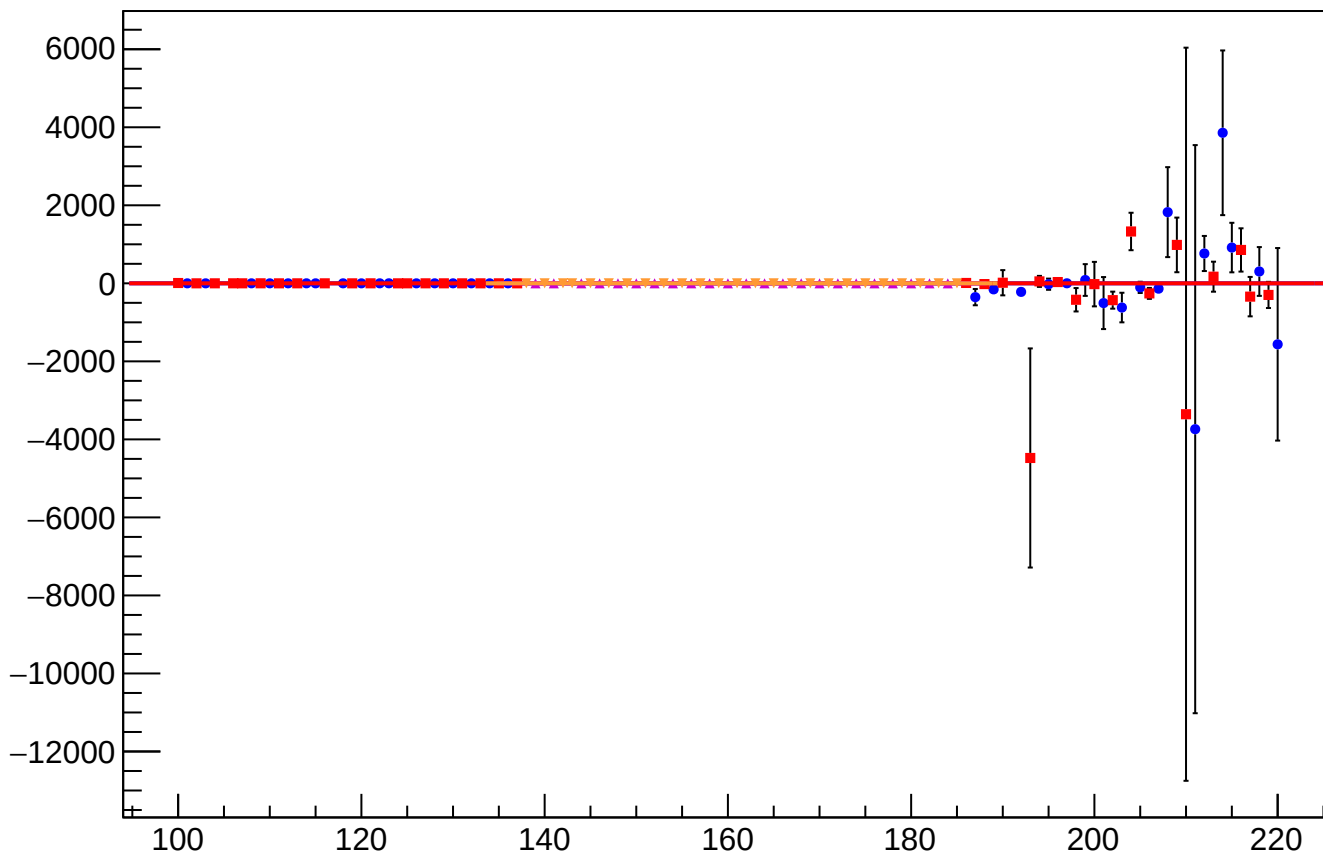
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 136.6/69$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 81.6/56$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 118.1/60$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 199.9/117$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.8/33

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 42.6/35

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

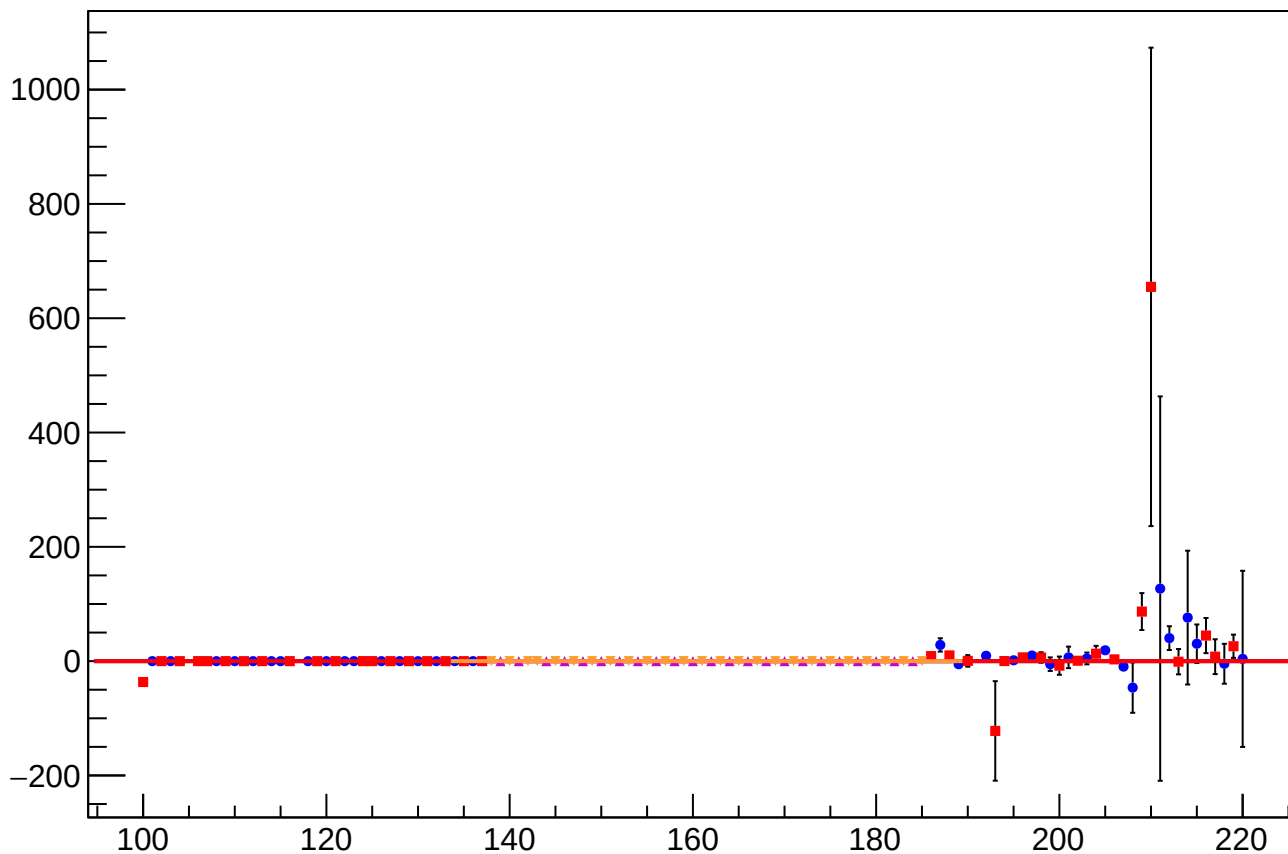
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 96.4/69

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.7/56

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:69.7/60

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 173.0/117

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.2/33

Left Out: 0.008+/-0.001 χ^2/NDF :26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10487.8/35

Left In: 0.009+/-0.001 χ^2/NDF :15.0/22

Left: 0.009 ± 0.001 χ^2/NDF : 41.4/47

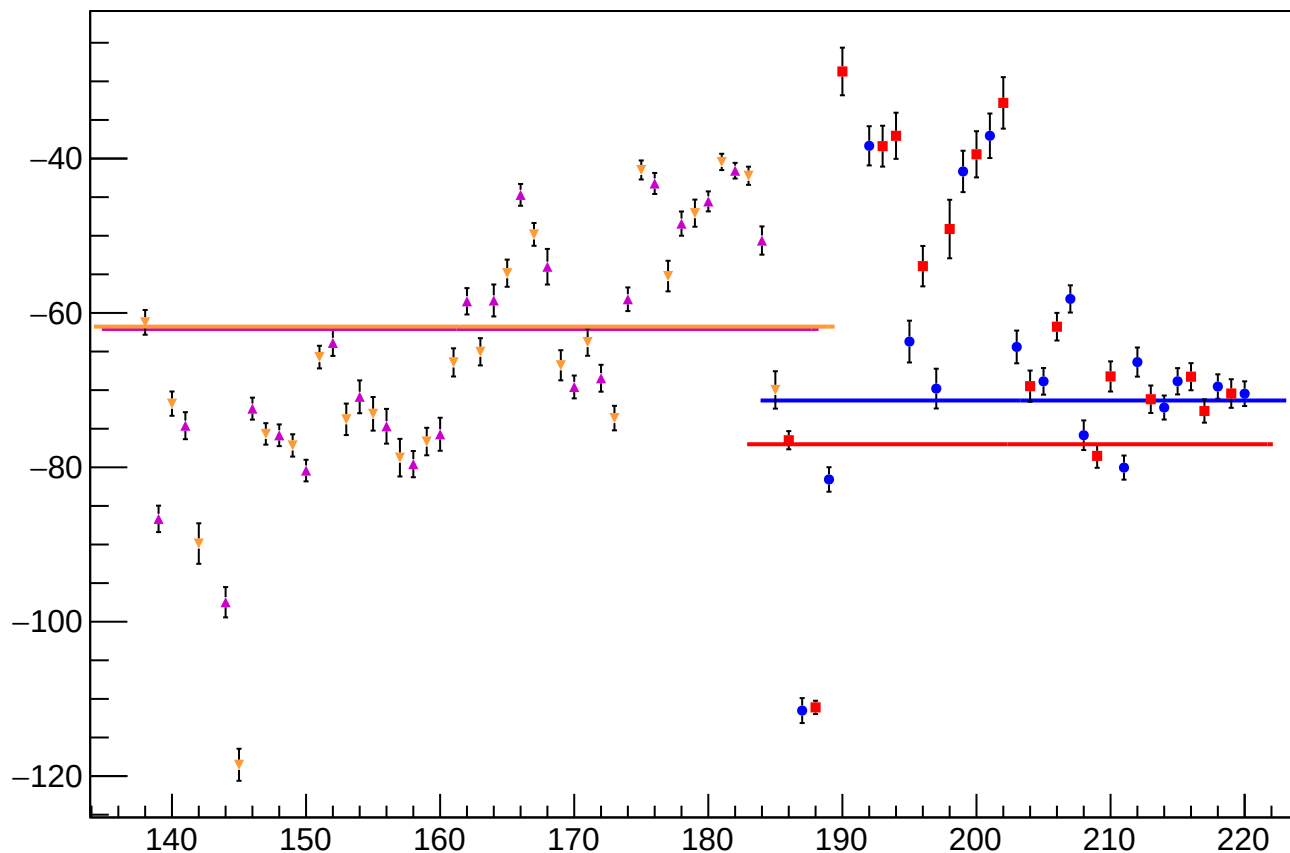
Right: 0.001+/-0.002 χ^2/NDF : 10557.0/69

ln: 0.007+/-0.001 χ^2 /NDF:93.7/56

Out: 0.007+/-0.001 χ^2/NDF :10523.1/60

All: 0.007 ± 0.001 χ^2/NDF : 10616.8/117

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.343 ± 0.453 $\chi^2/\text{NDF}: 1215.1/16$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -77.011 ± 0.429 $\chi^2/\text{NDF}: 2822.7/16$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

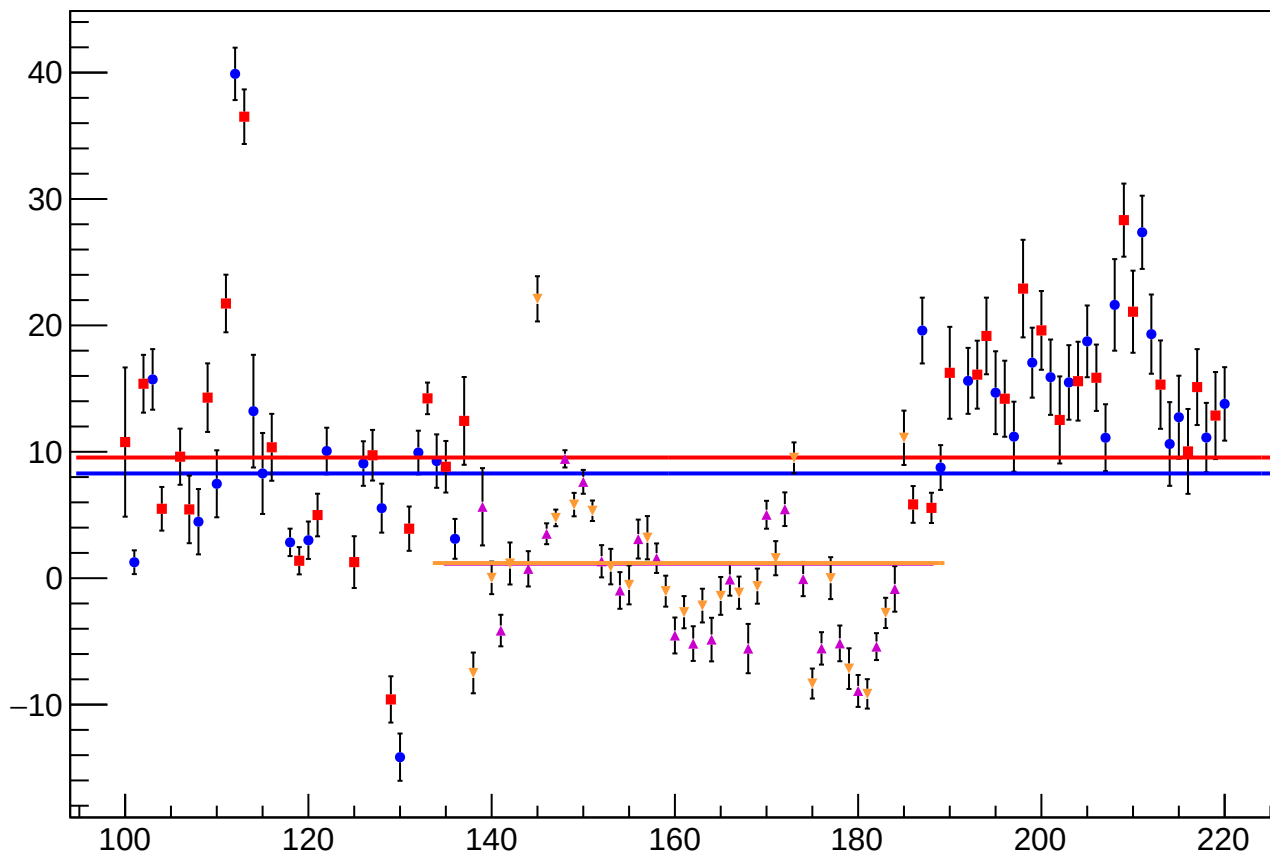
Right: -74.335 ± 0.311 $\chi^2/\text{NDF}: 4120.4/33$

In: -65.315 ± 0.268 $\chi^2/\text{NDF}: 3679.2/39$

Out: -67.528 ± 0.263 $\chi^2/\text{NDF}: 6114.6/40$

All: -66.441 ± 0.188 $\chi^2/\text{NDF}: 9828.5/80$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.286 $\pm$ 0.363 χ^2 /NDF: 643.9/32

Left Out: 1.198 $\pm$ 0.253 χ^2 /NDF:526.3/23

Right Out: 9.547 $\pm$ 0.364 χ^2 /NDF: 551.5/34

Left In: 1.146 $\pm$ 0.255 χ^2 /NDF:462.9/22

Left: 1.172 $\pm$ 0.180 χ^2 /NDF: 989.3/46

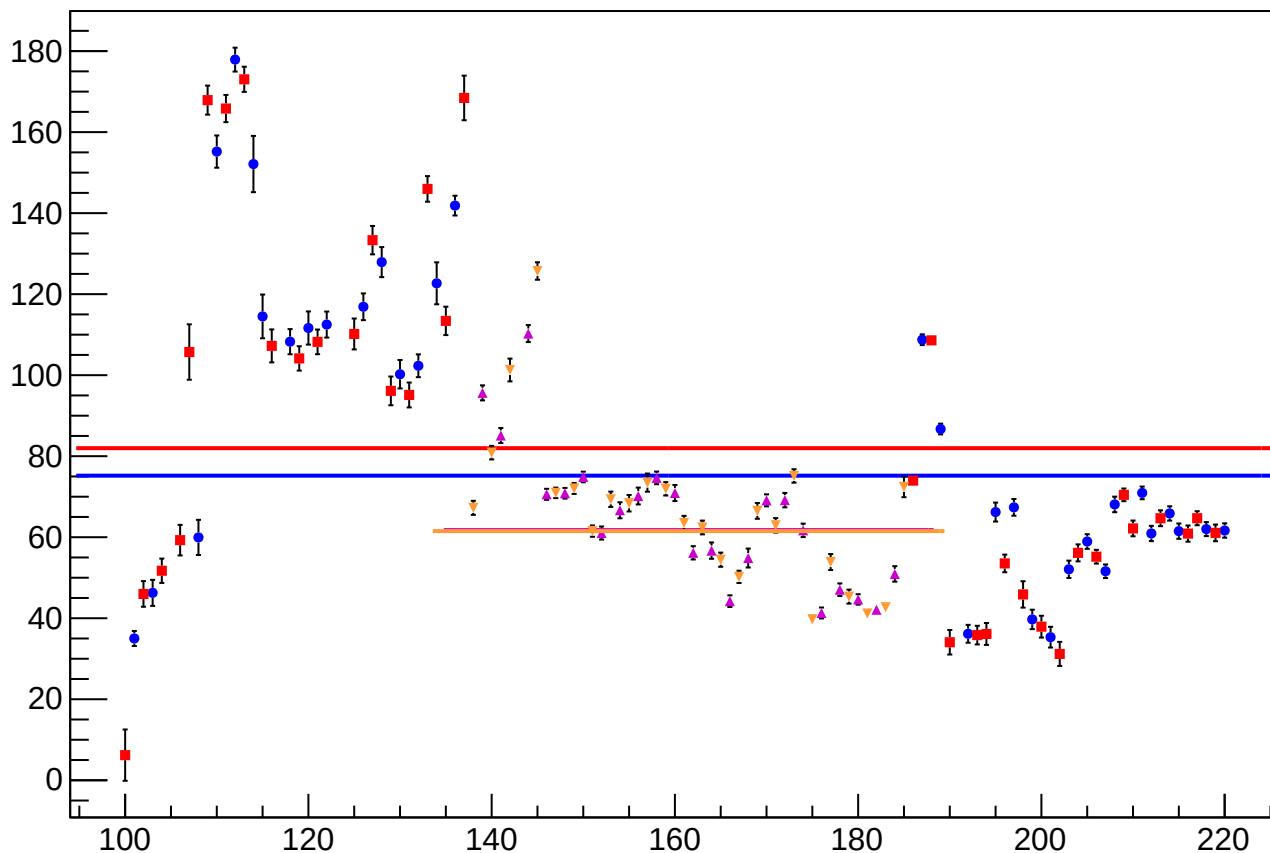
Right: 8.915 $\pm$ 0.257 χ^2 /NDF: 1201.4/67

In: 3.513 $\pm$ 0.209 χ^2 /NDF:1366.1/55

Out: 3.914 $\pm$ 0.207 χ^2 /NDF:1433.3/58

All: 3.715 $\pm$ 0.147 χ^2 /NDF: 2801.2/114

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 75.195+/-0.387 χ^2/NDF : 6205.2/32

Left Out: 61.512+/-0.332 χ^2/NDF : 2606.0/23

Right Out: 81.980+/-0.355 χ^2/NDF : 7971.3/34

Left In: 61.762+/-0.330 χ^2/NDF : 2418.2/22

Left: 61.638+/-0.234 χ^2/NDF : 5024.5/46

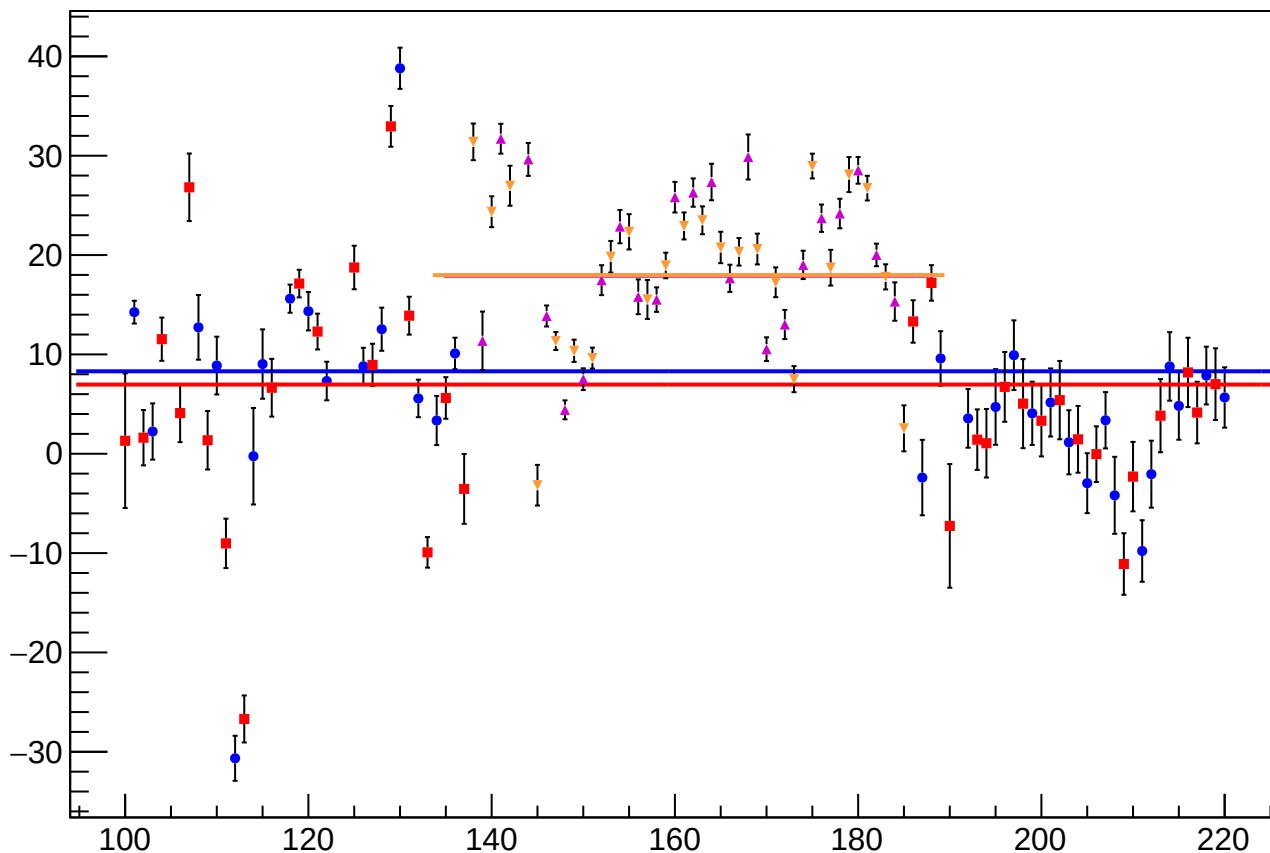
Right: 78.882+/-0.262 χ^2/NDF : 14343.4/67

In: 67.416+/-0.251 χ^2/NDF : 9321.0/55

Out: 71.079+/-0.243 χ^2/NDF : 12350.4/58

All: 69.311+/-0.174 χ^2/NDF : 21781.5/114

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.301 ± 0.420 χ^2/NDF : 688.7/32

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.964 ± 0.430 χ^2/NDF : 793.5/34

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

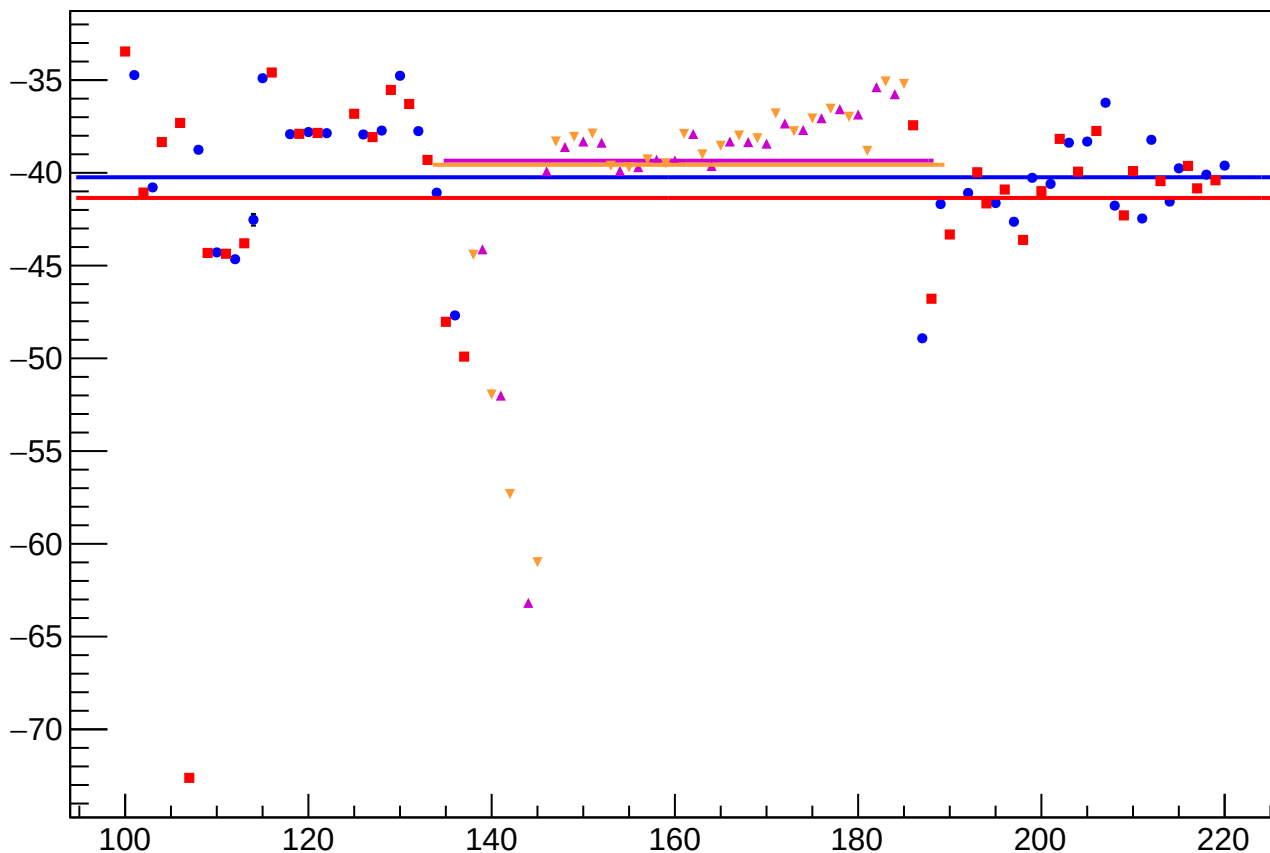
Right: 7.648 ± 0.301 χ^2/NDF : 1487.1/67

In: 14.779 ± 0.240 χ^2/NDF : 1768.2/55

Out: 14.525 ± 0.241 χ^2/NDF : 1917.7/58

All: 14.652 ± 0.170 χ^2/NDF : 3686.4/114

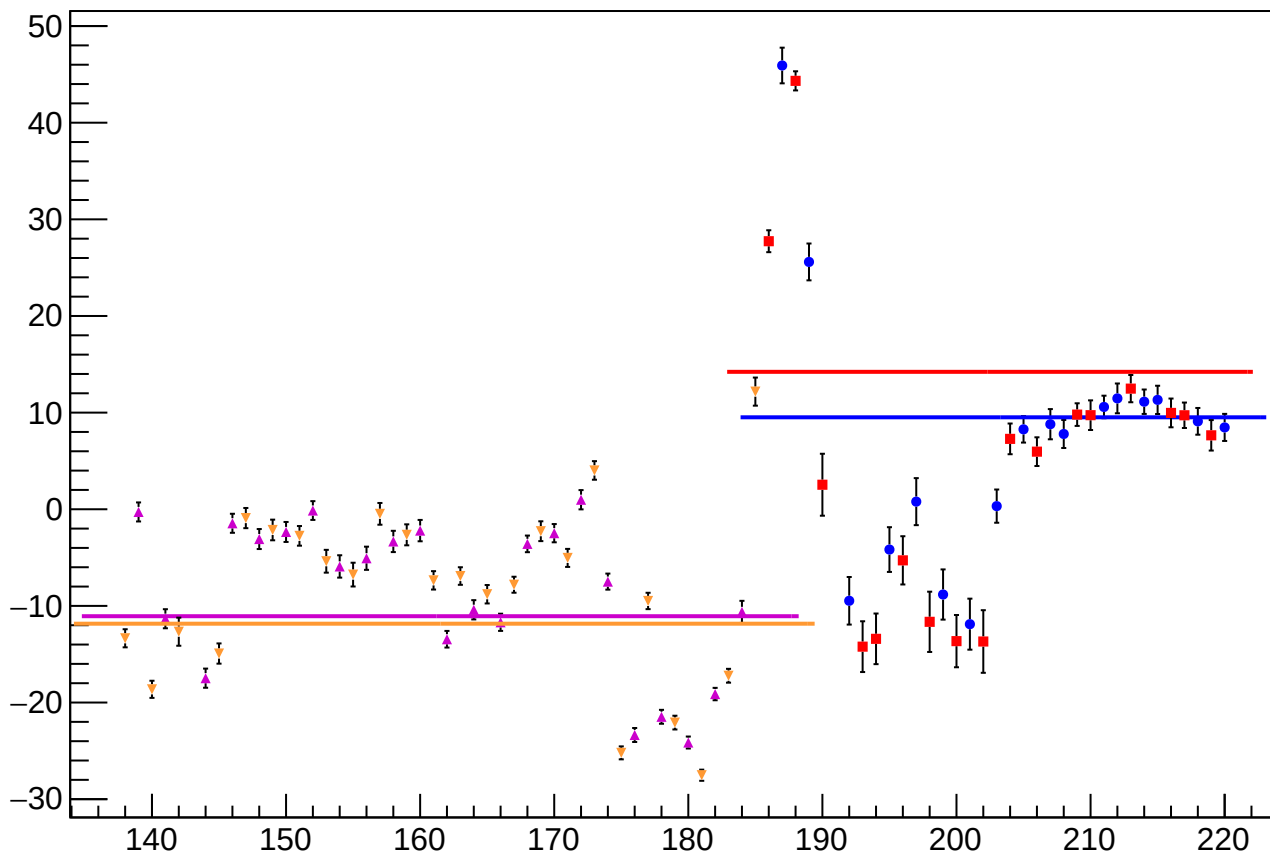
reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.239 ± 0.021 χ^2/NDF : 29910.5/32
 Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23
 Right Out: -41.353 ± 0.021 χ^2/NDF : 68814.7/34
 Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46
 Right: -40.794 ± 0.015 χ^2/NDF : 100134.9/67
 In: -39.609 ± 0.011 χ^2/NDF : 147809.1/55
 Out: -40.100 ± 0.012 χ^2/NDF : 215075.1/58
 All: -39.853 ± 0.008 χ^2/NDF : 363804.2/114

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



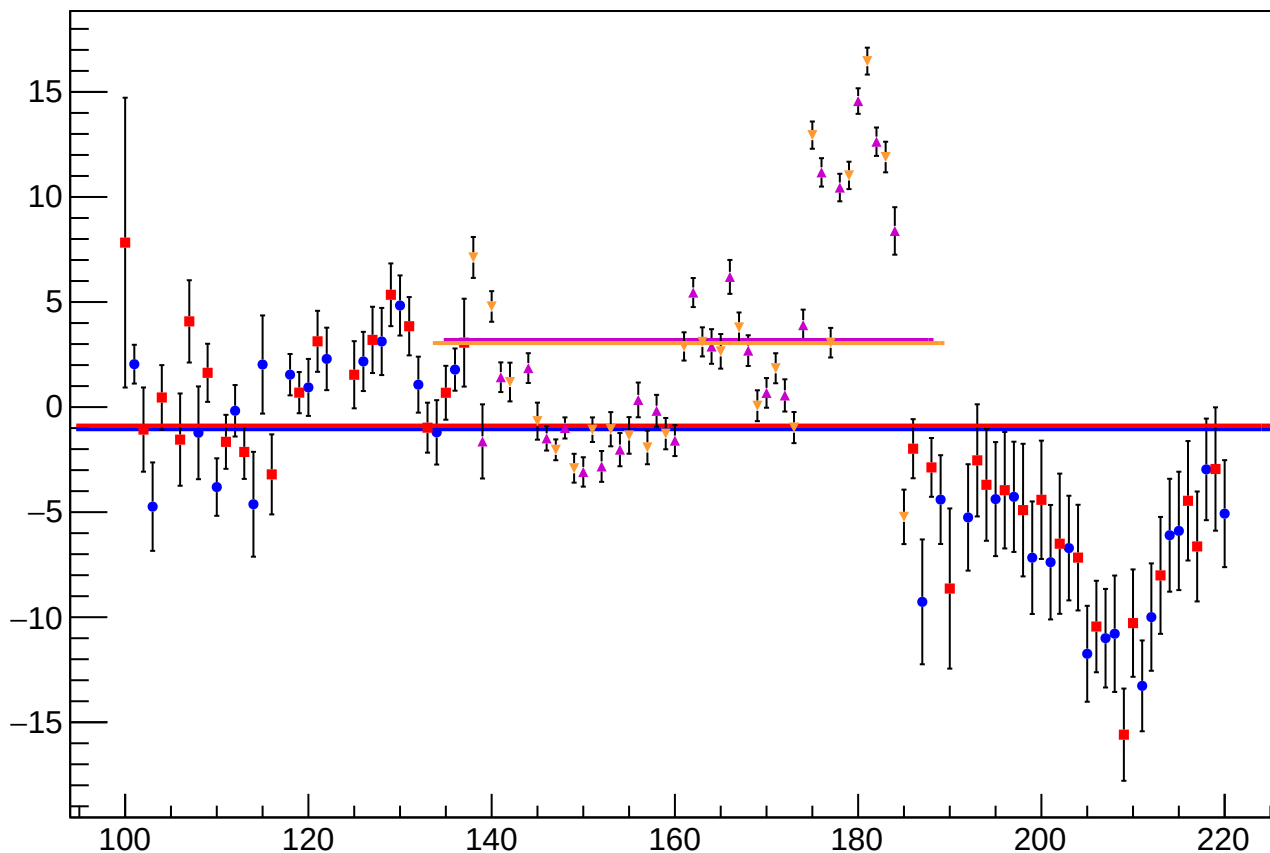
Right In: 9.515 ± 0.395 $\chi^2/\text{NDF}: 720.7/16$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 14.221 ± 0.389 $\chi^2/\text{NDF}: 1730.4/16$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 11.904 ± 0.277 $\chi^2/\text{NDF}: 2523.2/33$

In: -7.262 ± 0.170 $\chi^2/\text{NDF}: 5042.0/39$
 Out: -6.951 ± 0.168 $\chi^2/\text{NDF}: 8123.1/40$

All: -7.105 ± 0.120 $\chi^2/\text{NDF}: 13166.8/80$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.054 ± 0.299 χ^2/NDF : 214.1/32

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.879 ± 0.301 χ^2/NDF : 181.2/34

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

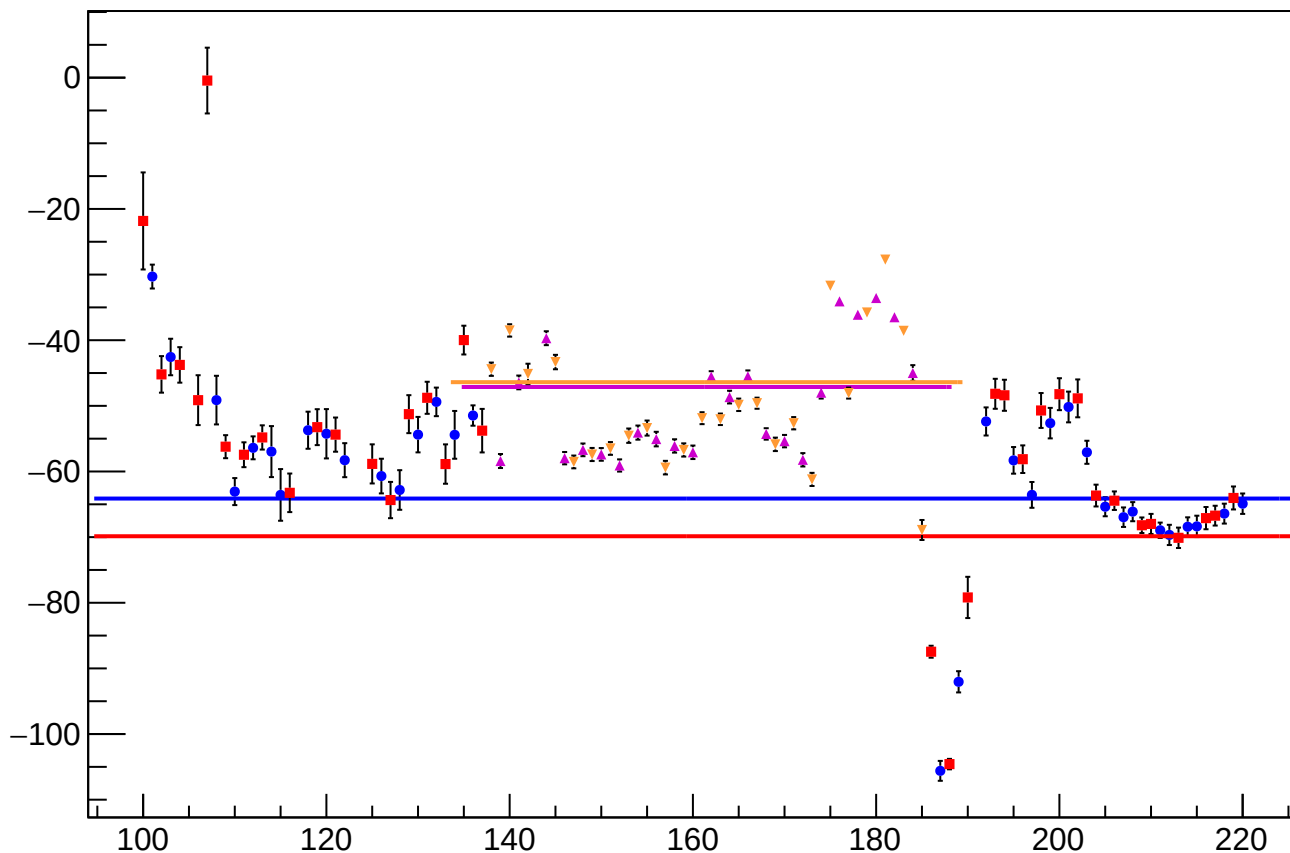
Right: -0.967 ± 0.212 χ^2/NDF : 395.5/67

In: 2.339 ± 0.134 χ^2/NDF : 1670.7/55

Out: 2.283 ± 0.133 χ^2/NDF : 1775.6/58

All: 2.311 ± 0.094 χ^2/NDF : 3446.3/114

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.123 ± 0.331 χ^2/NDF : 1821.7/32

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -69.865 ± 0.315 χ^2/NDF : 3752.6/34

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

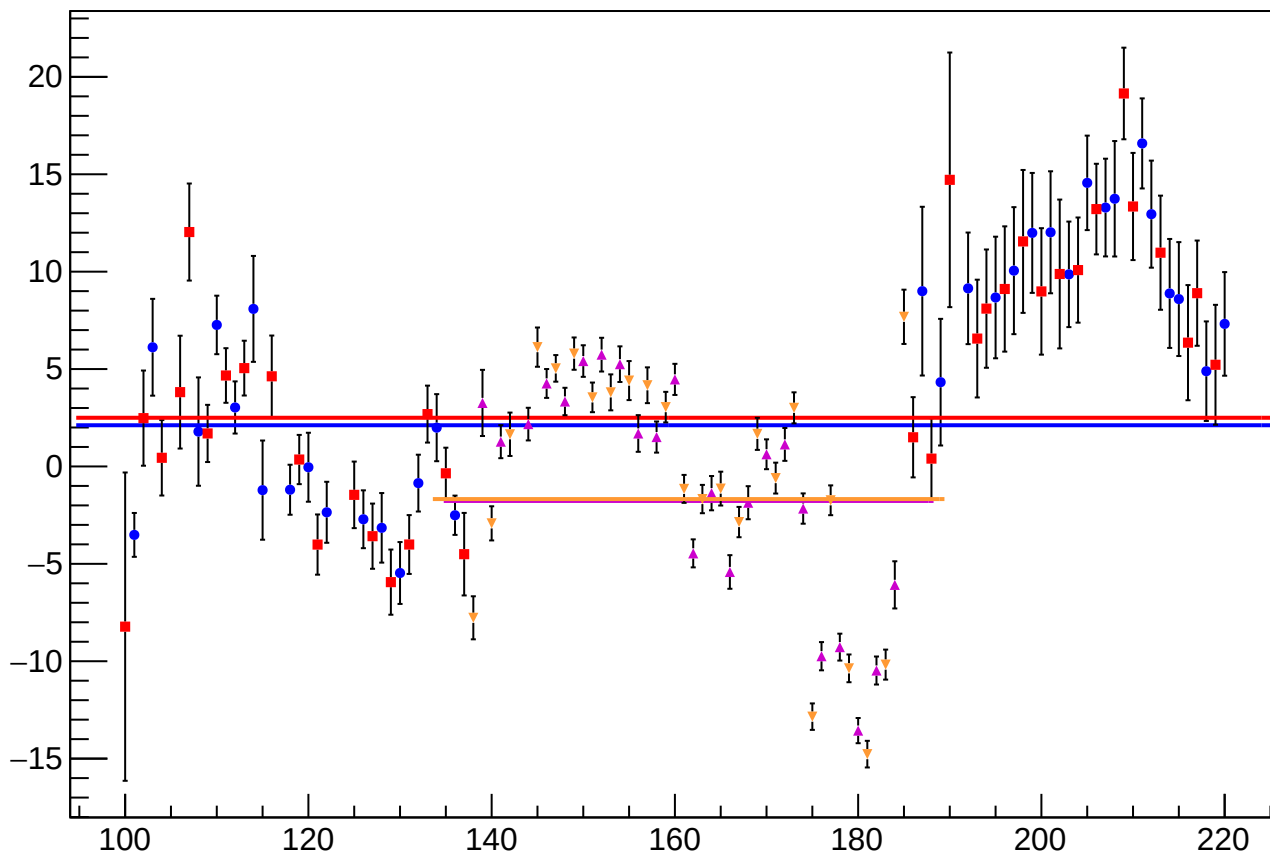
Right: -67.134 ± 0.228 χ^2/NDF : 5732.1/67

In: -51.246 ± 0.163 χ^2/NDF : 6335.4/55

Out: -52.482 ± 0.161 χ^2/NDF : 11146.1/58

All: -51.873 ± 0.114 χ^2/NDF : 17510.6/114

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.115 ± 0.338 $\chi^2/\text{NDF}: 309.7/32$

Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$

Right Out: 2.499 ± 0.345 $\chi^2/\text{NDF}: 262.9/34$

Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$

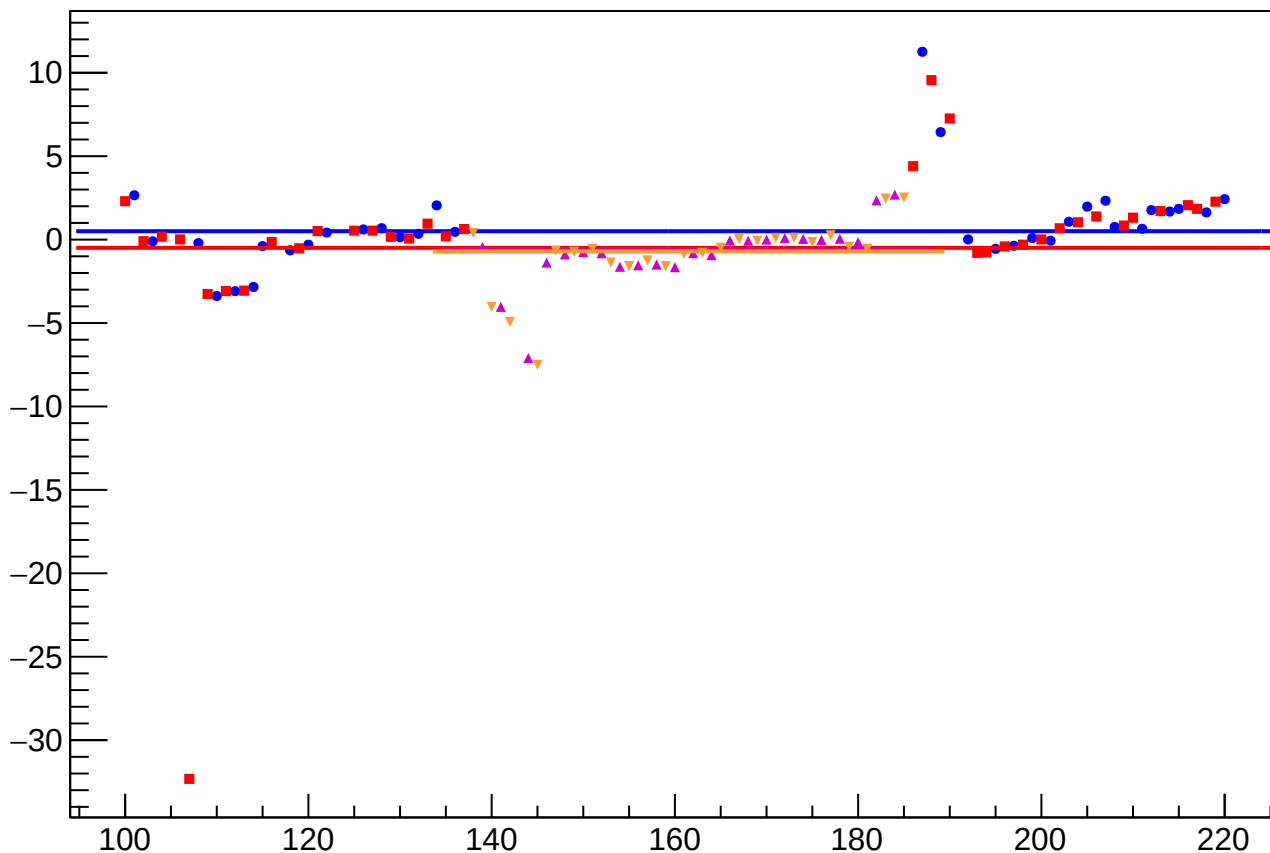
Right: 2.303 ± 0.241 $\chi^2/\text{NDF}: 573.3/67$

In: -0.993 ± 0.151 $\chi^2/\text{NDF}: 1666.9/55$

Out: -0.883 ± 0.150 $\chi^2/\text{NDF}: 1865.2/58$

All: -0.938 ± 0.107 $\chi^2/\text{NDF}: 3532.5/114$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.503 $\pm$ 0.017 χ^2 /NDF: 10430.3/32

Left Out: -0.702 $\pm$ 0.008 χ^2 /NDF: 53834.9/23

Right Out: -0.492 $\pm$ 0.017 χ^2 /NDF: 94725.6/34

Left In: -0.644 $\pm$ 0.008 χ^2 /NDF: 44169.2/22

Left: -0.673 $\pm$ 0.005 χ^2 /NDF: 98032.6/46

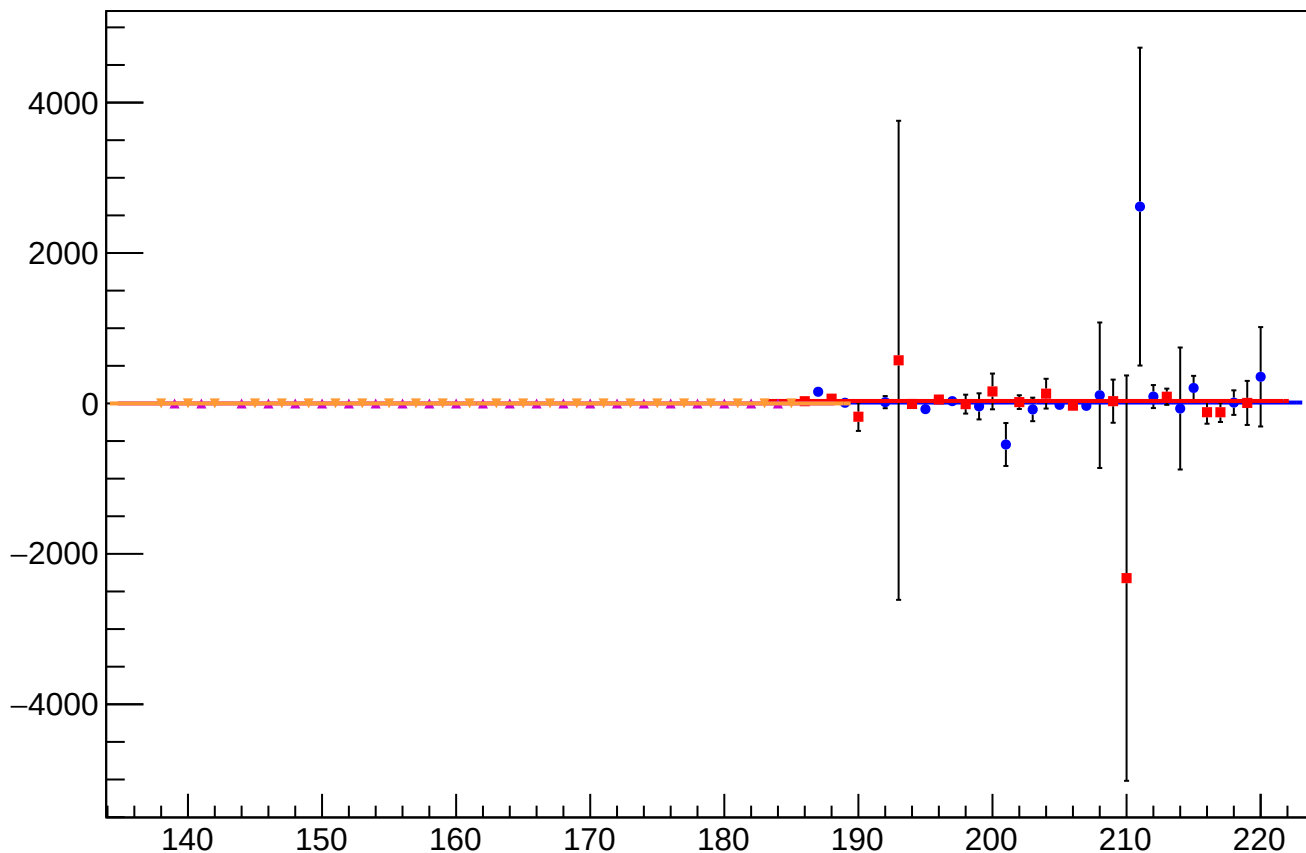
Right: 0.011 $\pm$ 0.012 χ^2 /NDF: 106846.8/67

In: -0.450 $\pm$ 0.007 χ^2 /NDF: 58375.3/55

Out: -0.667 $\pm$ 0.007 χ^2 /NDF: 148684.2/58

All: -0.559 $\pm$ 0.005 χ^2 /NDF: 207541.2/114

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.831 $\pm$ 15.003 χ^2/NDF : 23.0/16

Left Out: -0.037 $\pm$ 0.018 χ^2/NDF : 35.4/23

Right Out: 32.944 $\pm$ 9.582 χ^2/NDF : 9.9/16

Left In: -0.010 $\pm$ 0.018 χ^2/NDF : 35.1/22

Left: -0.024 $\pm$ 0.013 χ^2/NDF : 71.7/46

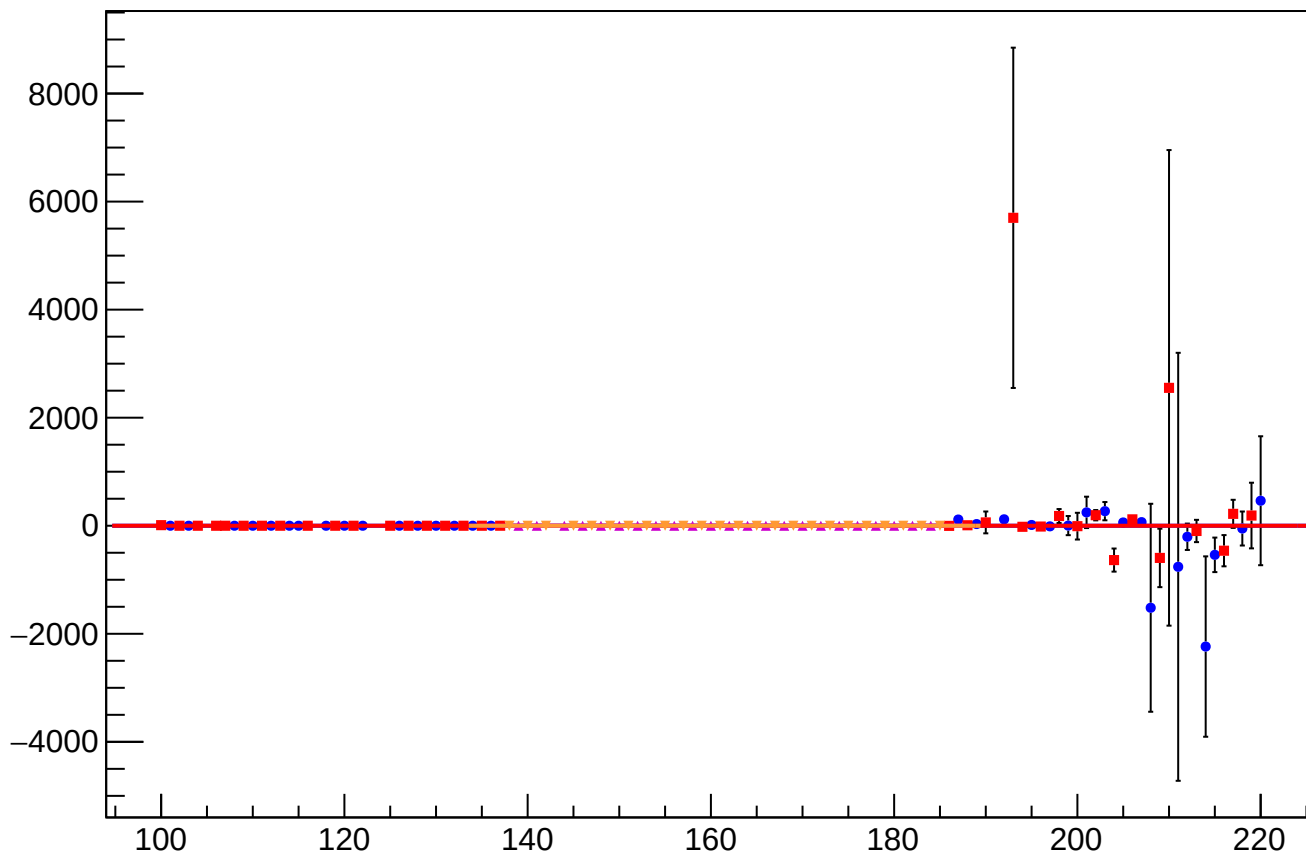
Right: 26.827 $\pm$ 8.075 χ^2/NDF : 34.3/33

In: -0.010 $\pm$ 0.018 χ^2/NDF : 58.7/39

Out: -0.037 $\pm$ 0.018 χ^2/NDF : 57.2/40

All: -0.024 $\pm$ 0.013 χ^2/NDF : 117.0/80

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013+/-0.023 χ^2/NDF : 29.7/32

Left Out: -0.073+/-0.014 χ^2/NDF : 27.8/23

Right Out: -0.088+/-0.025 χ^2/NDF : 39.9/34

Left In: -0.064+/-0.014 χ^2/NDF : 41.1/22

Left: -0.068+/-0.010 χ^2/NDF : 69.1/46

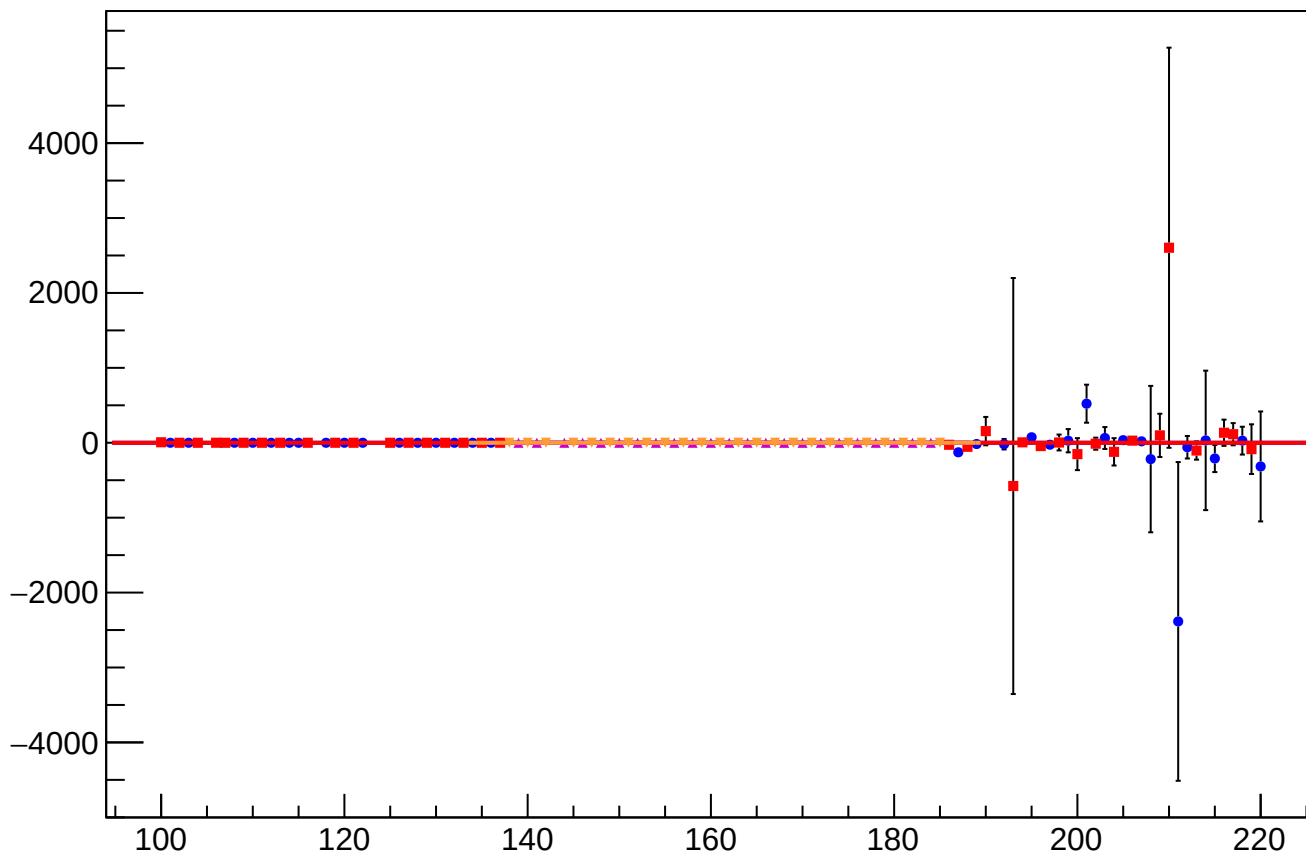
Right: -0.048+/-0.017 χ^2/NDF : 74.3/67

In: -0.050+/-0.012 χ^2/NDF : 74.1/55

Out: -0.076+/-0.012 χ^2/NDF : 68.0/58

All: -0.063+/-0.009 χ^2/NDF : 144.4/114

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 33.2/32

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 33.7/34

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

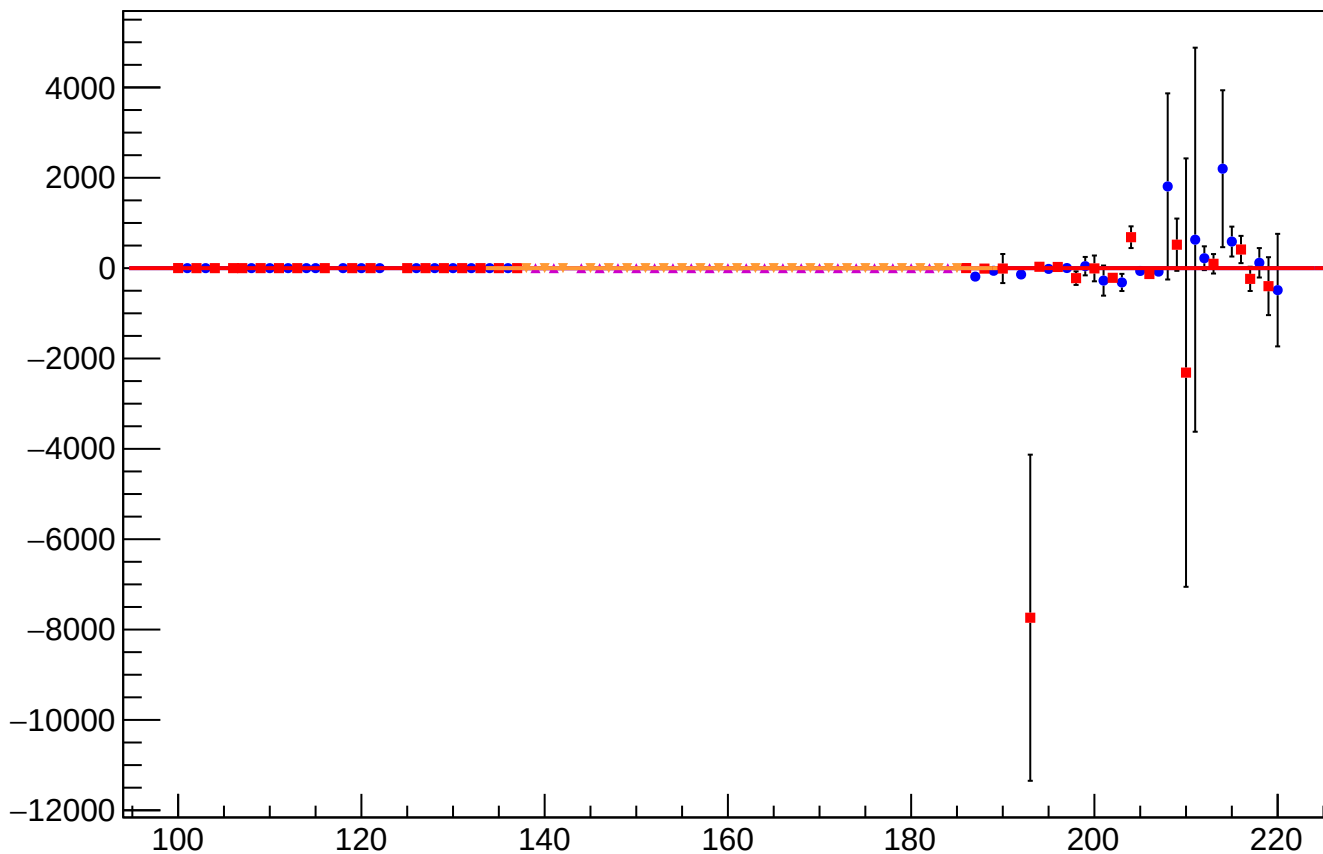
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 66.9/67

In: -0.005 $\pm$ 0.017 χ^2 /NDF:70.3/55

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:65.9/58

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 139.0/114

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 31.2/32

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 35.0/34

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

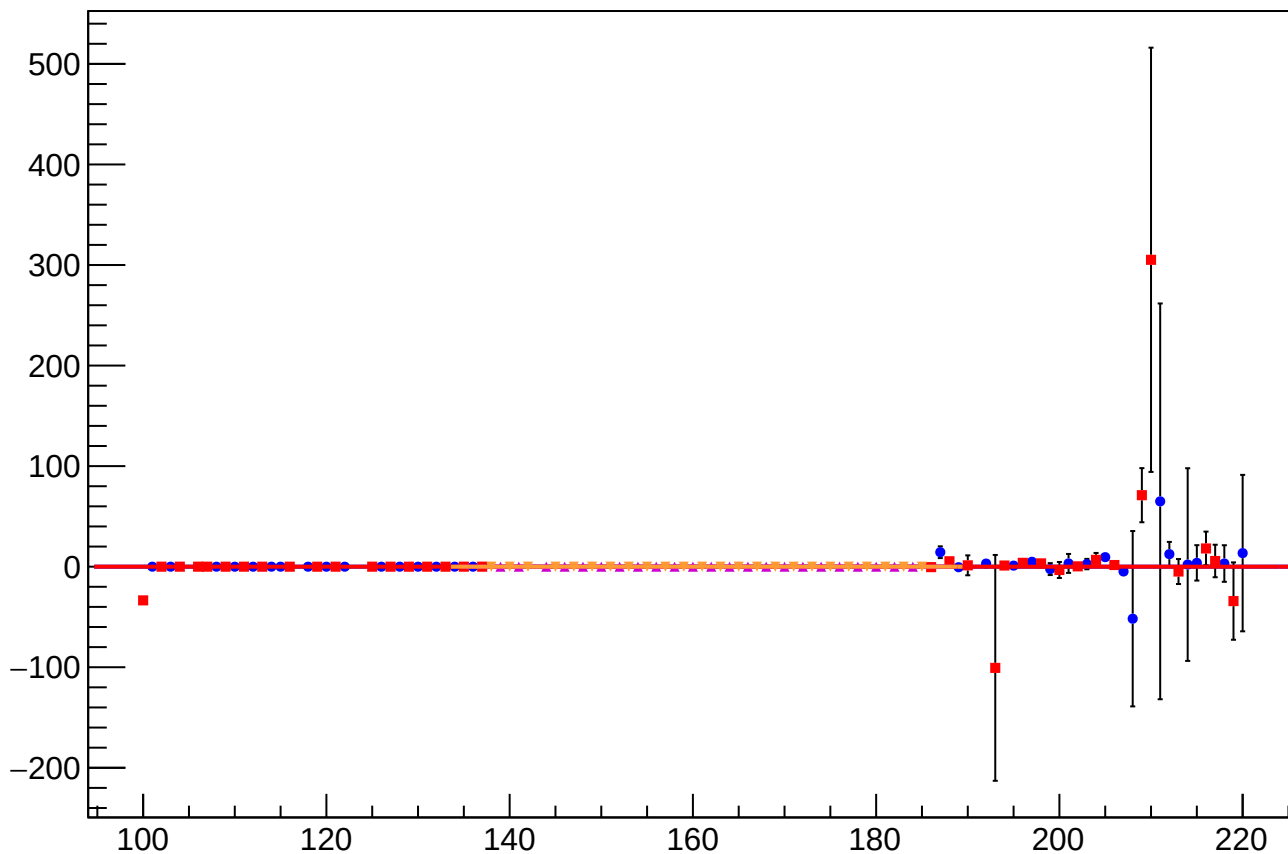
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 72.3/67

In: 0.053 $\pm$ 0.014 χ^2 /NDF:79.8/55

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:63.0/58

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 146.4/114

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.9/32

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26532.9/34

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

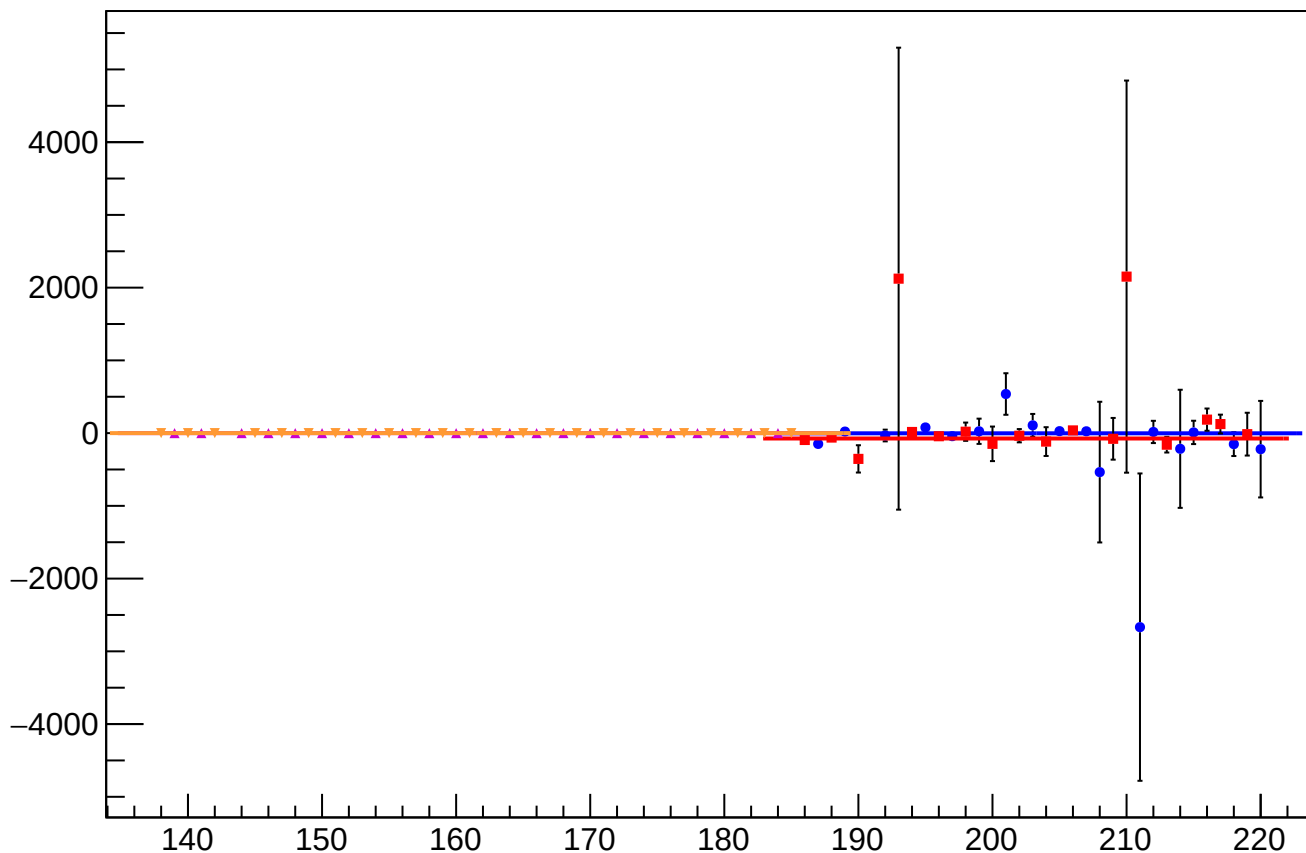
Right: -0.006 ± 0.001 χ^2/NDF : 26580.8/67

In: -0.001 ± 0.001 χ^2/NDF : 81.9/55

Out: -0.001 ± 0.001 χ^2/NDF : 26571.6/58

All: -0.001 ± 0.000 χ^2/NDF : 26653.5/114

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.544 ± 14.999 $\chi^2/\text{NDF}: 22.8/16$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.001 ± 9.584 $\chi^2/\text{NDF}: 21.9/16$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

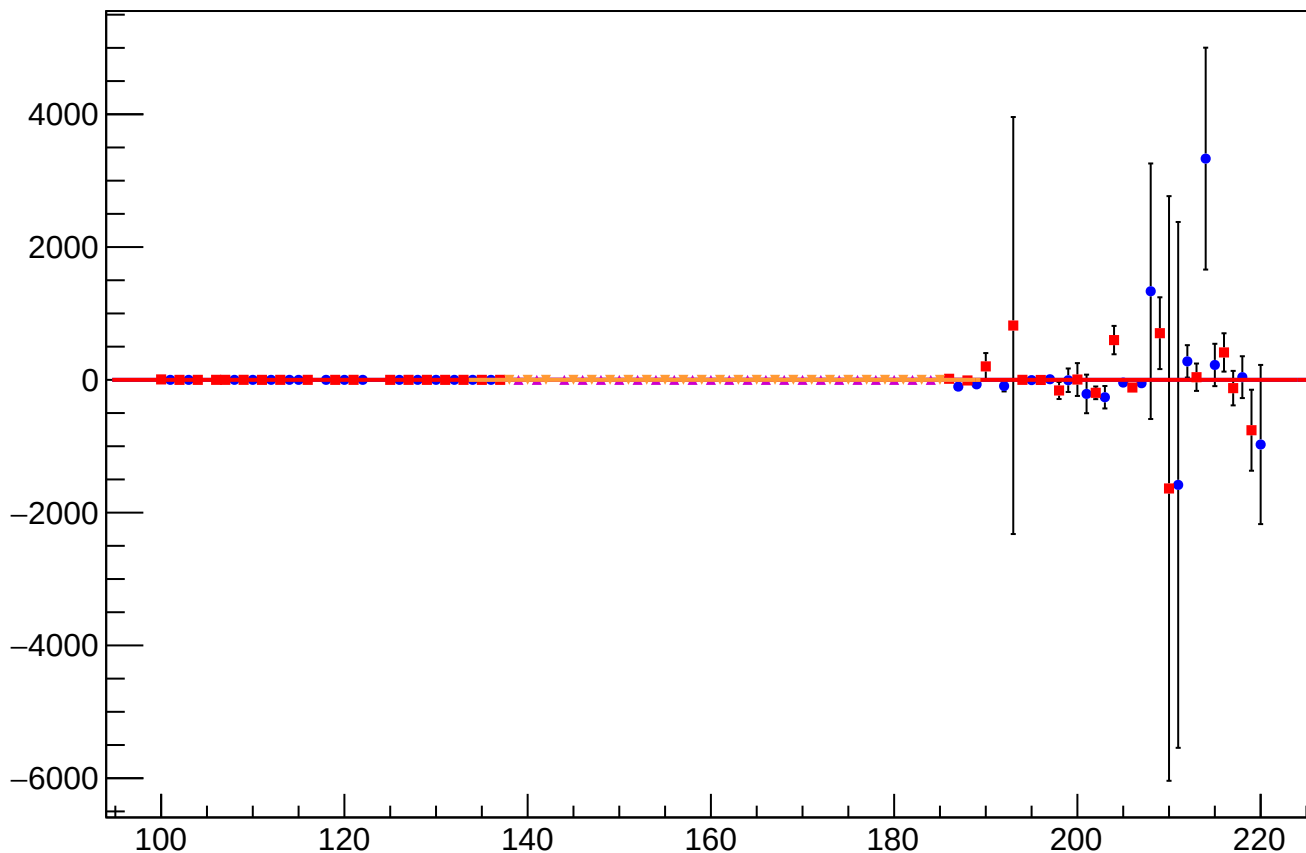
Right: -53.283 ± 8.076 $\chi^2/\text{NDF}: 60.8/33$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 57.9/39$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 118.8/40$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 179.6/80$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 44.4/32

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF: 29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 53.4/34

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF: 49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

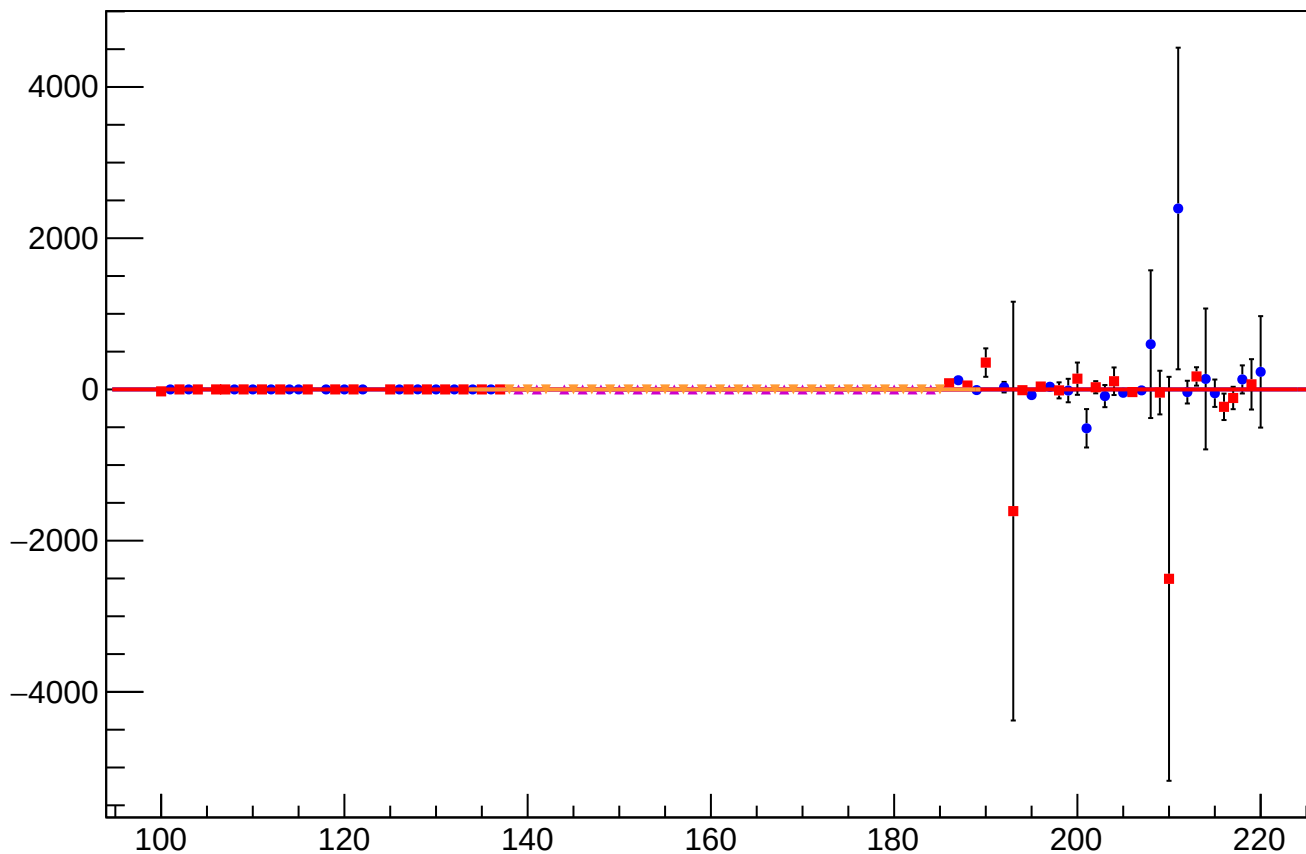
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 98.5/67

In: 0.006 $\pm$ 0.012 χ^2 /NDF: 93.9/55

Out: 0.001 $\pm$ 0.012 χ^2 /NDF: 85.8/58

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 179.7/114

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 52.6/32

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 113.9/34

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

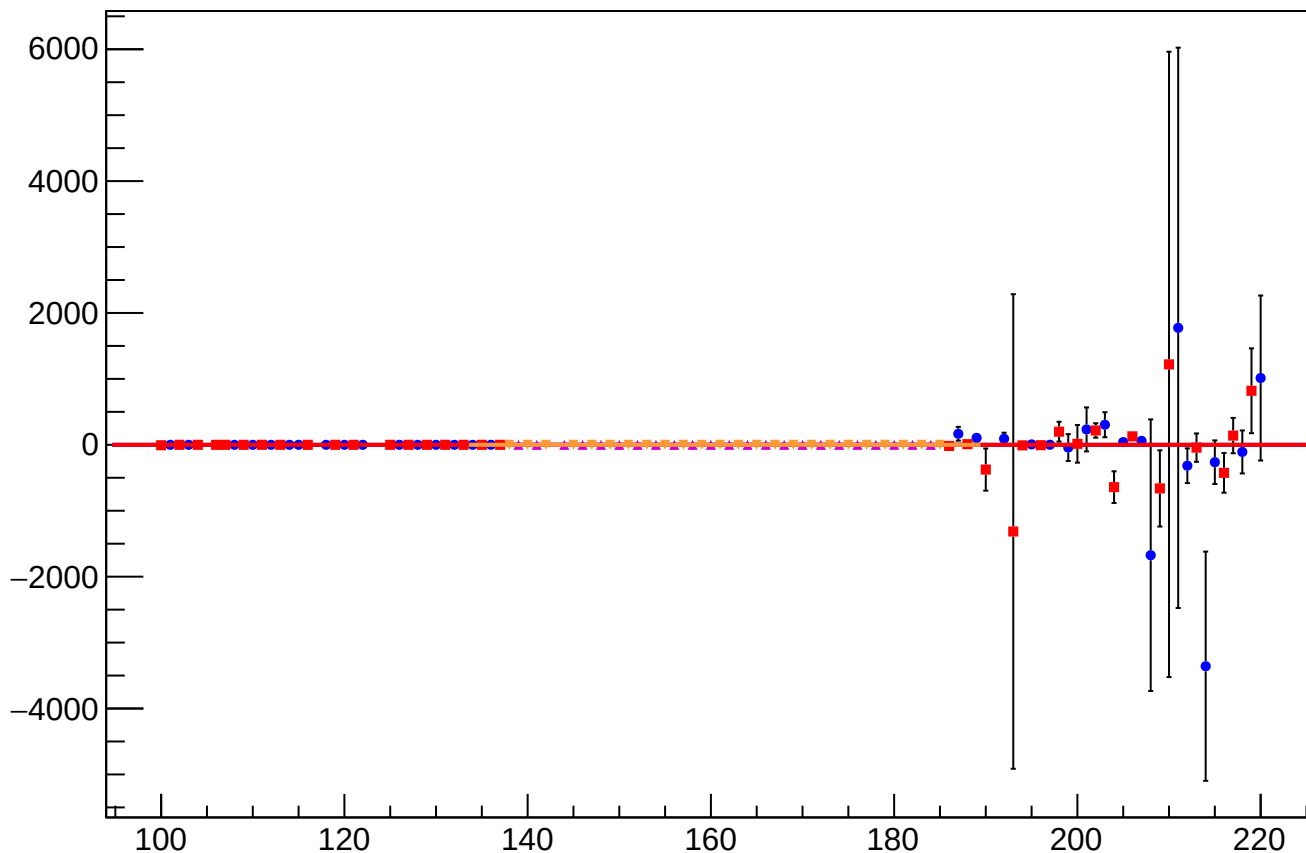
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 166.9/67

In: 0.040 $\pm$ 0.017 χ^2 /NDF:97.0/55

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:158.8/58

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 257.2/114

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 44.2/32

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 49.9/34

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

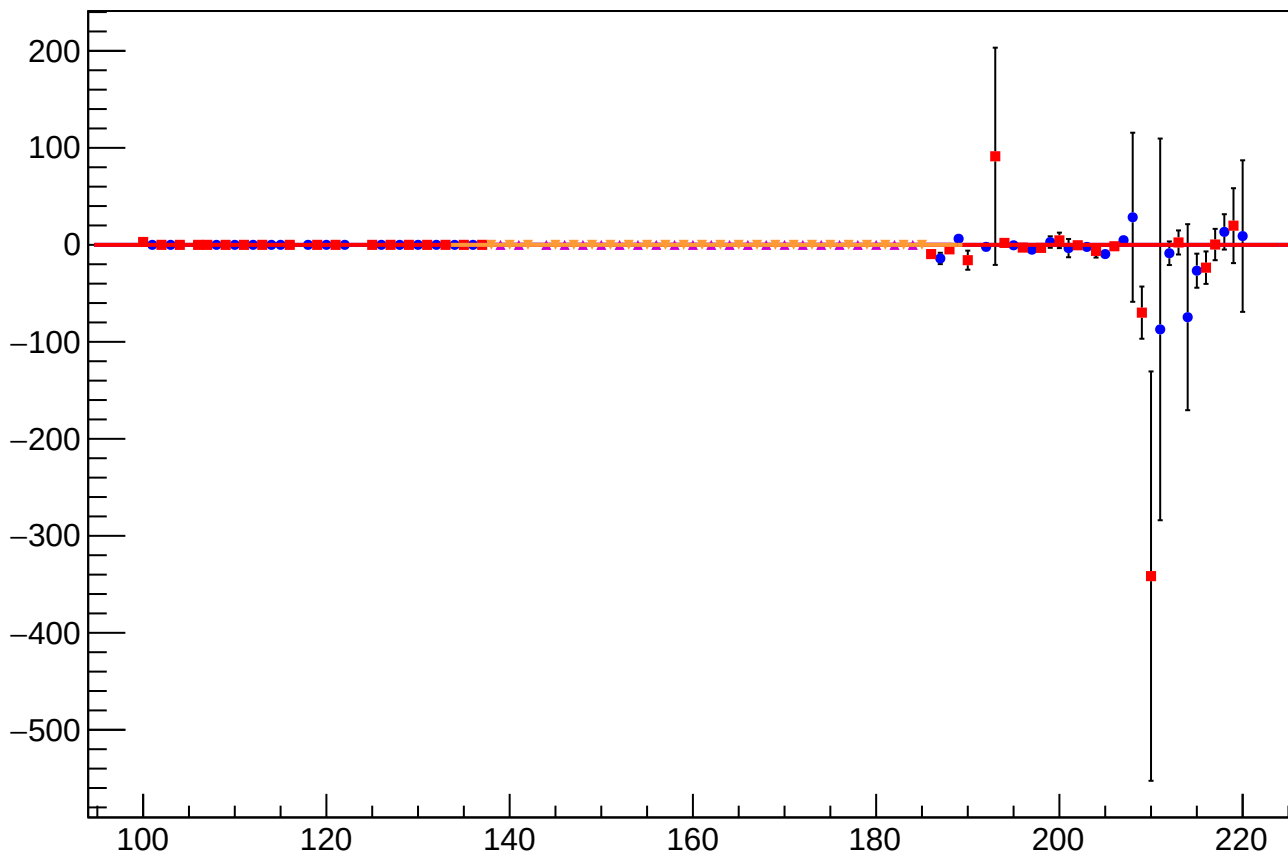
Right: -0.027 ± 0.020 χ^2/NDF : 95.0/67

In: 0.002 ± 0.014 χ^2/NDF : 94.6/55

Out: 0.005 ± 0.014 χ^2/NDF : 87.5/58

All: 0.004 ± 0.010 χ^2/NDF : 182.2/114

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 61.9/32

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 226.5/34

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

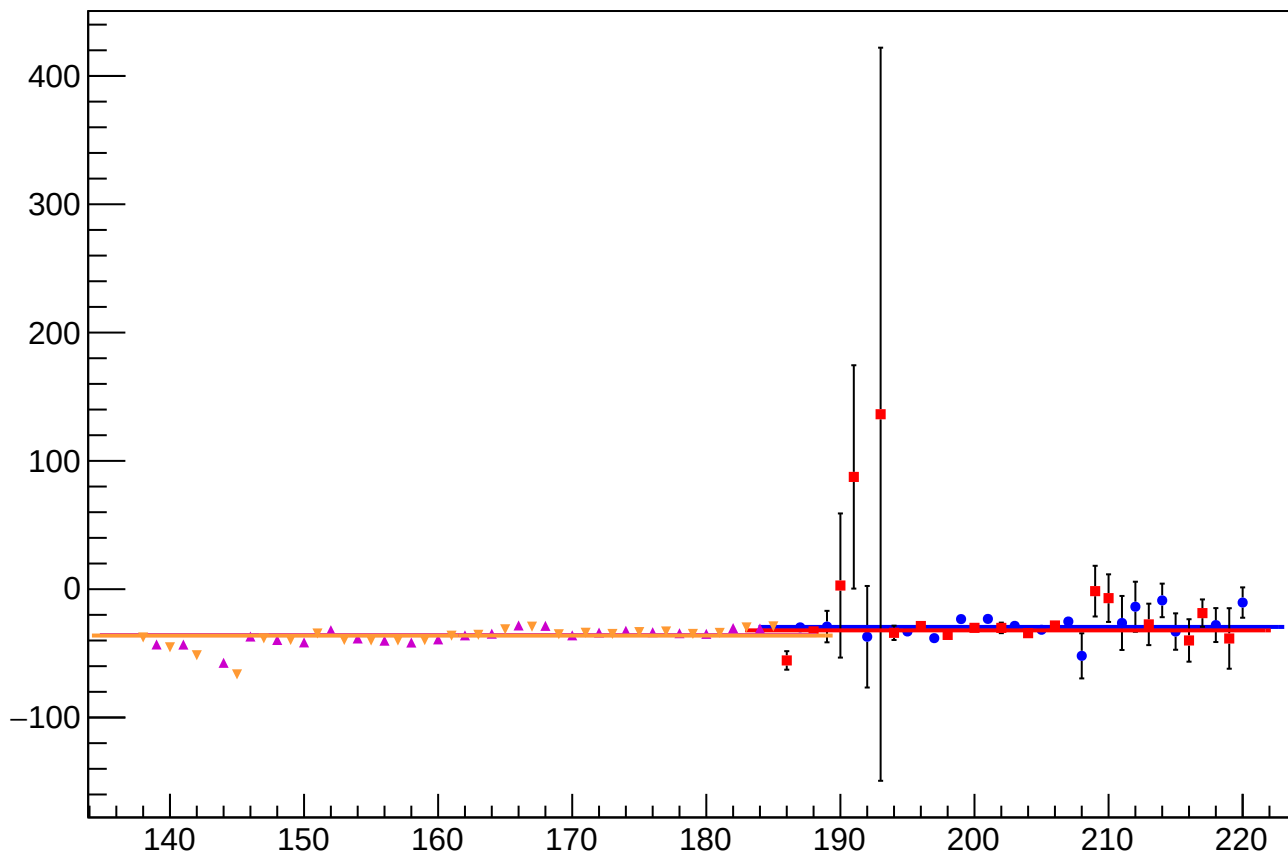
Right: -0.006 ± 0.001 χ^2/NDF : 288.4/67

In: -0.008 ± 0.001 χ^2/NDF : 101.7/55

Out: -0.008 ± 0.001 χ^2/NDF : 260.5/58

All: -0.008 ± 0.000 χ^2/NDF : 362.4/114

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.411 ± 0.849 χ^2/NDF : 31.6/16

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.092 ± 0.802 χ^2/NDF : 27.0/17

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

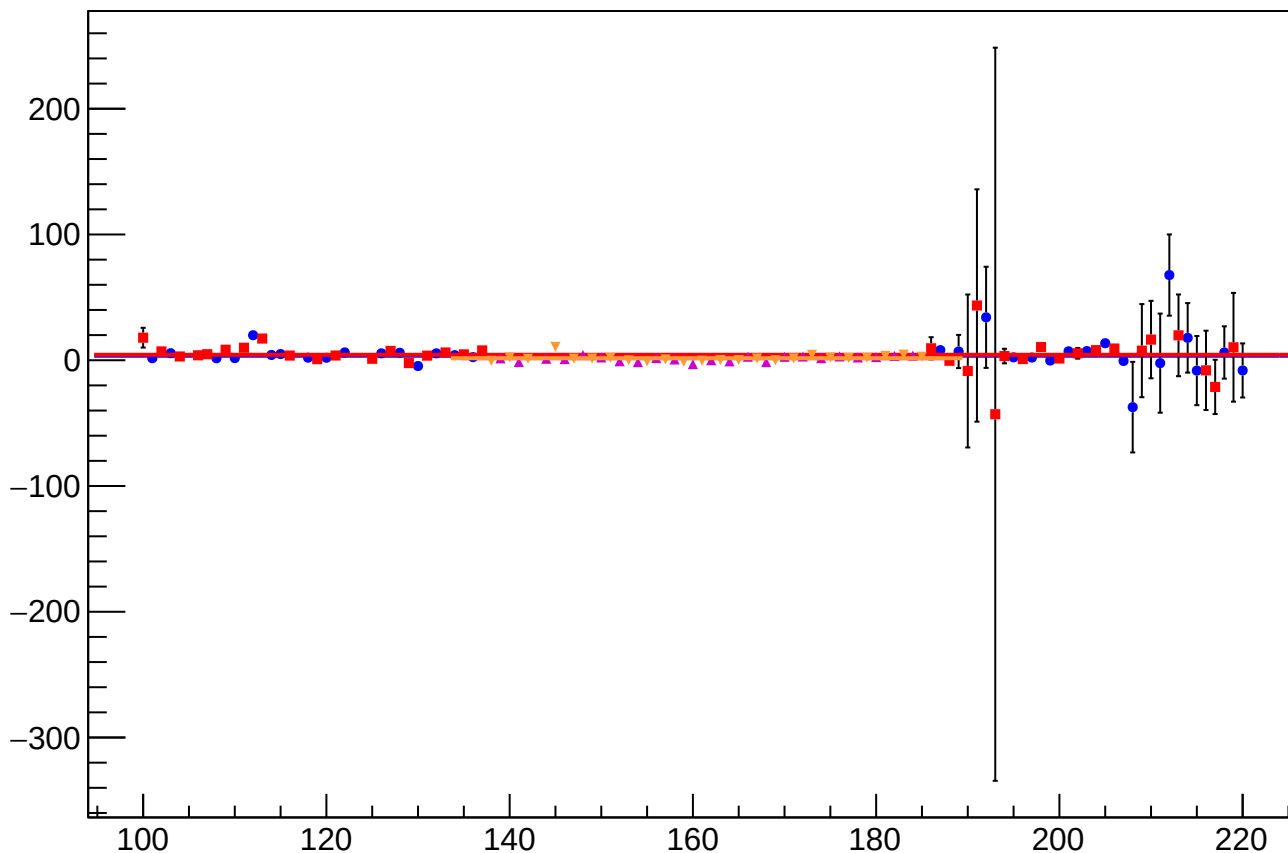
Right: -30.828 ± 0.583 χ^2/NDF : 63.8/34

In: -35.472 ± 0.187 χ^2/NDF : 939.2/39

Out: -35.902 ± 0.187 χ^2/NDF : 1165.7/41

All: -35.687 ± 0.132 χ^2/NDF : 2107.6/81

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 ± 0.217 χ^2/NDF : 462.9/32

Left Out: 1.634 ± 0.148 χ^2/NDF : 166.5/23

Right Out: 4.347 ± 0.221 χ^2/NDF : 370.9/35

Left In: 1.641 ± 0.150 χ^2/NDF : 163.2/22

Left: 1.638 ± 0.105 χ^2/NDF : 329.7/46

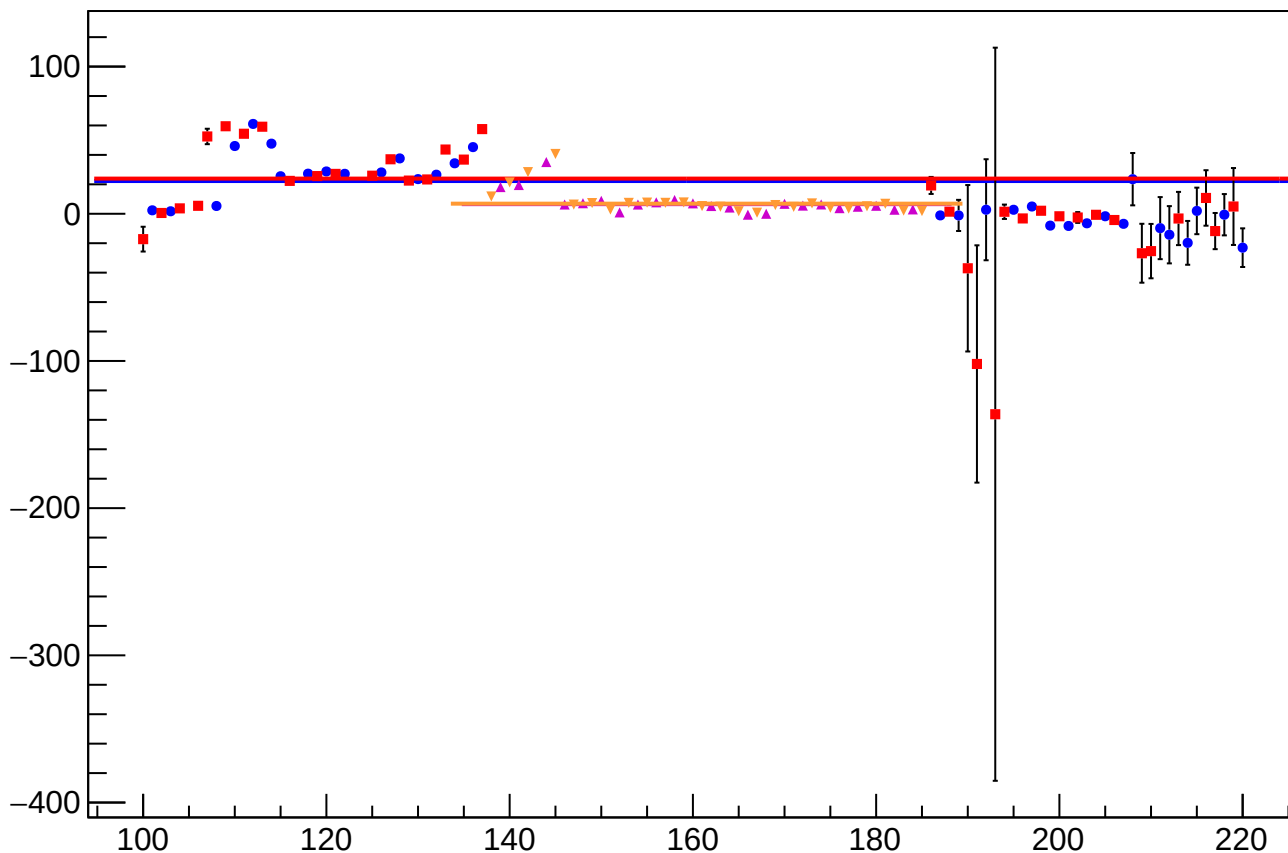
Right: 3.968 ± 0.155 χ^2/NDF : 839.6/68

In: 2.274 ± 0.123 χ^2/NDF : 681.6/55

Out: 2.475 ± 0.123 χ^2/NDF : 641.9/59

All: 2.374 ± 0.087 χ^2/NDF : 1324.8/115

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.236 $\pm$ 0.369 χ^2 /NDF: 2836.2/32

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF: 1295.7/23

Right Out: 23.896 $\pm$ 0.361 χ^2 /NDF: 3308.9/35

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

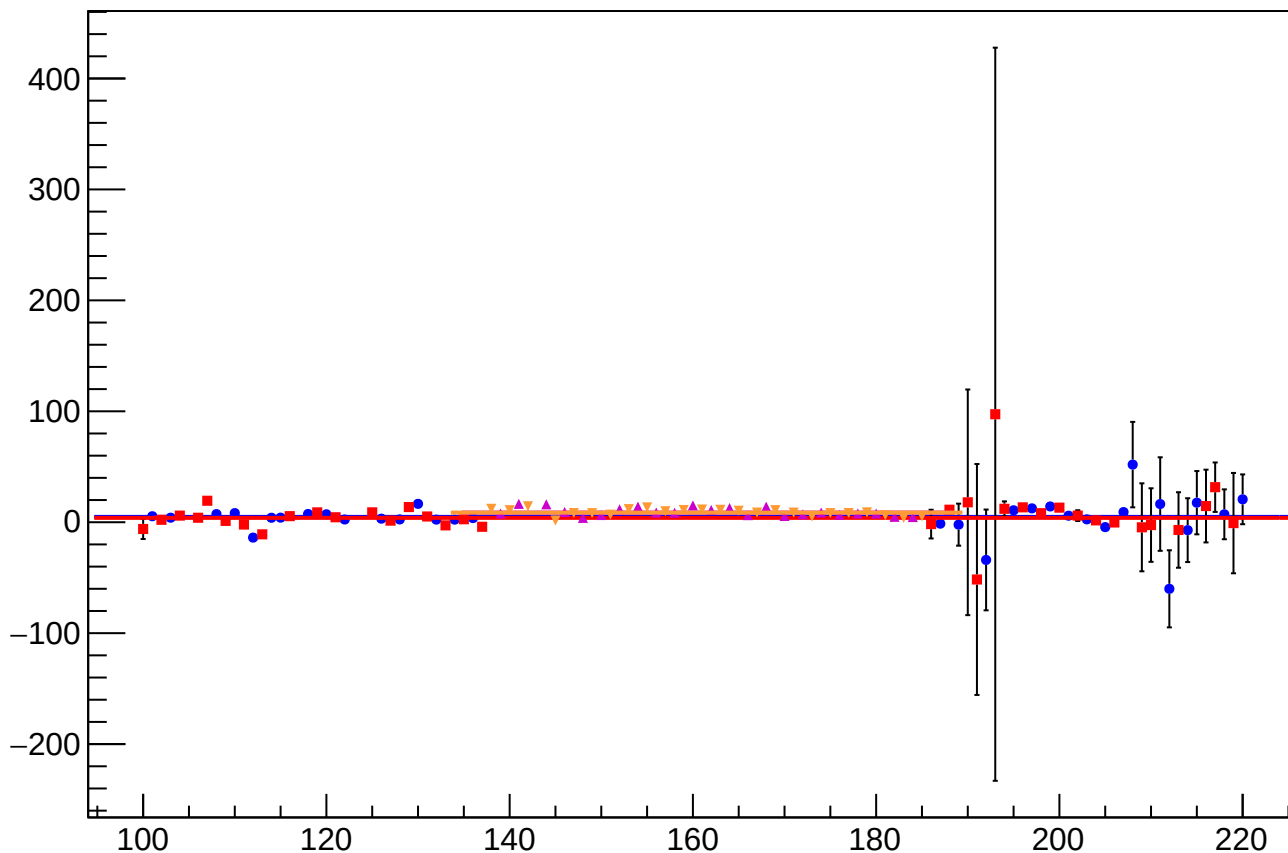
Right: 23.084 $\pm$ 0.258 χ^2 /NDF: 6155.4/68

In: 9.832 $\pm$ 0.169 χ^2 /NDF: 5288.7/55

Out: 10.596 $\pm$ 0.169 χ^2 /NDF: 6338.8/59

All: 10.214 $\pm$ 0.120 χ^2 /NDF: 11637.6/115

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.807 $\pm$ 0.250 χ^2 /NDF: 577.1/32

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.940 $\pm$ 0.254 χ^2 /NDF: 590.9/35

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

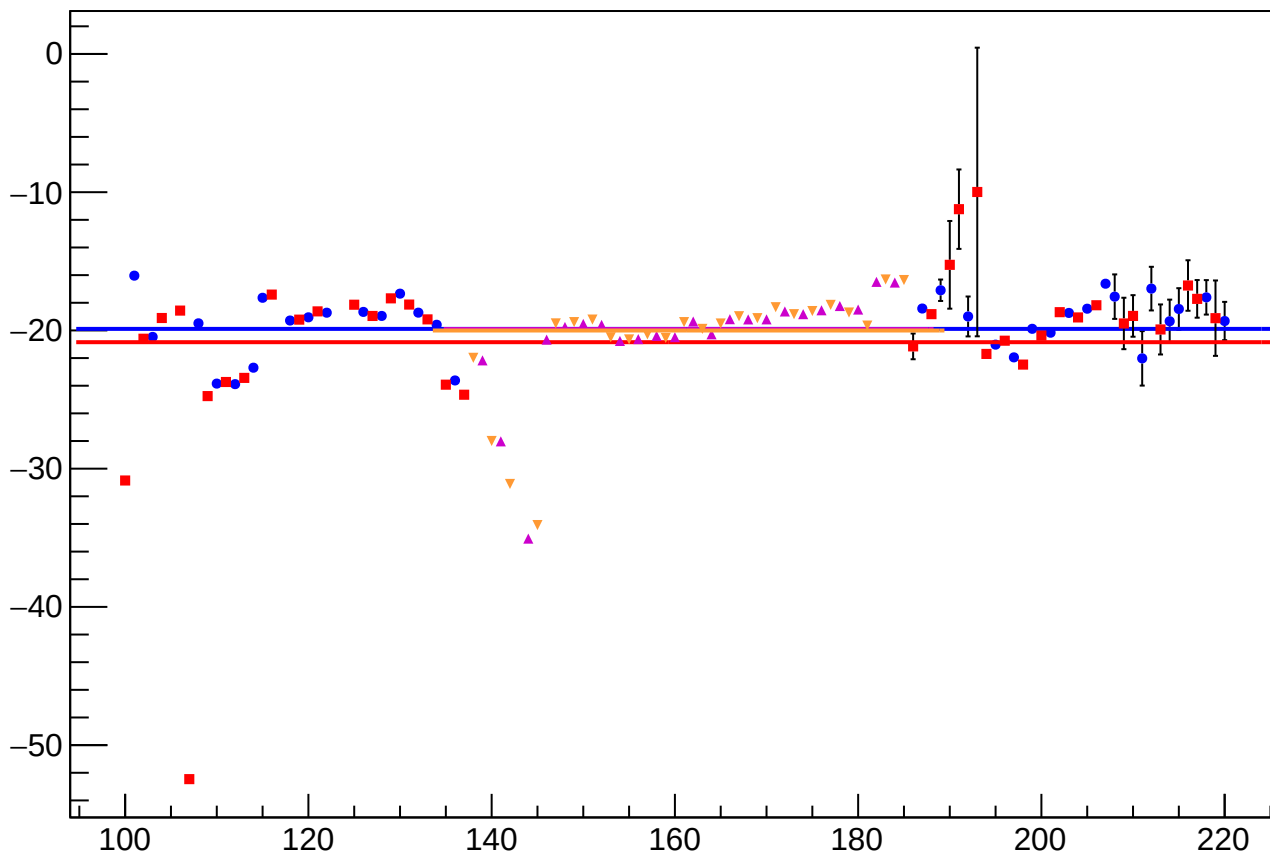
Right: 4.381 $\pm$ 0.178 χ^2 /NDF: 1174.0/68

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1177.0/55

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1074.4/59

All: 7.342 $\pm$ 0.099 χ^2 /NDF: 2252.5/115

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 ± 0.015 χ^2/NDF : 27152.2/32

Left Out: -20.006 ± 0.008 χ^2/NDF : 171763.9/23

Right Out: -20.851 ± 0.015 χ^2/NDF : 95251.3/35

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.951 ± 0.006 χ^2/NDF : 316049.4/46

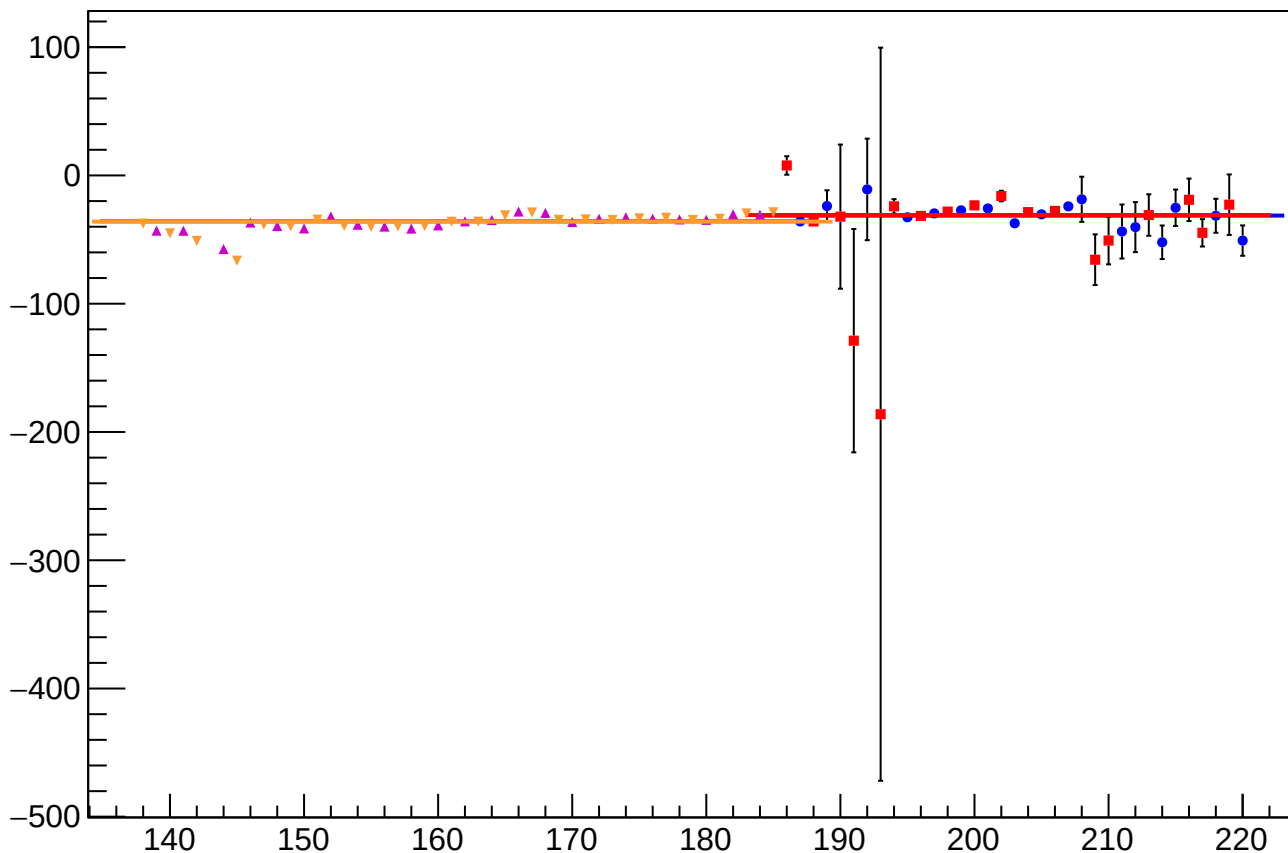
Right: -20.367 ± 0.011 χ^2/NDF : 124492.7/68

In: -19.896 ± 0.007 χ^2/NDF : 171344.4/55

Out: -20.190 ± 0.007 χ^2/NDF : 269519.3/59

All: -20.042 ± 0.005 χ^2/NDF : 441758.6/115

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.300 ± 0.852 $\chi^2/\text{NDF}: 34.1/16$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -30.894 ± 0.804 $\chi^2/\text{NDF}: 78.5/17$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

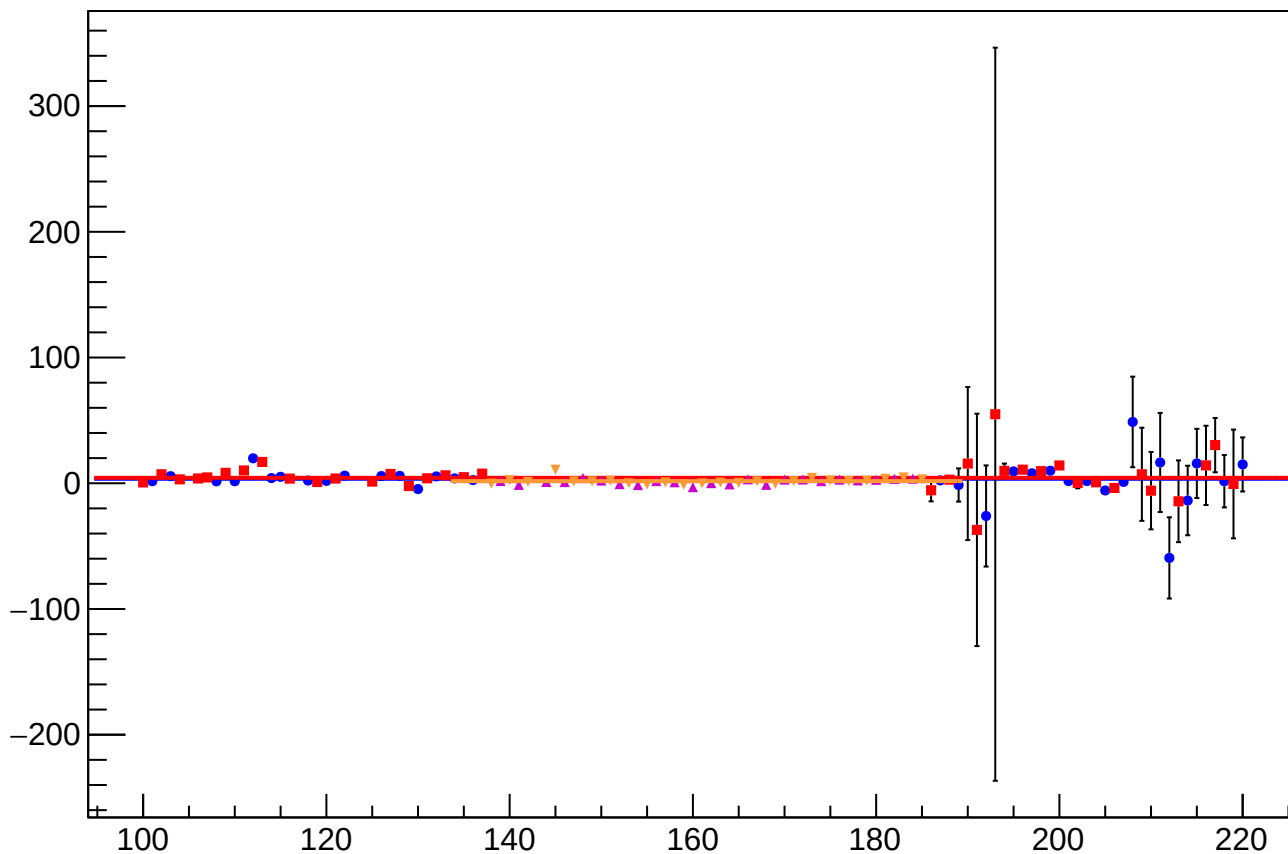
Right: -31.085 ± 0.585 $\chi^2/\text{NDF}: 112.7/34$

In: -35.552 ± 0.187 $\chi^2/\text{NDF}: 902.8/39$

Out: -35.754 ± 0.187 $\chi^2/\text{NDF}: 1238.4/41$

All: -35.653 ± 0.132 $\chi^2/\text{NDF}: 2141.8/81$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.568 $\pm$ 0.217 χ^2 /NDF: 462.4/32

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.323 $\pm$ 0.217 χ^2 /NDF: 380.3/35

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

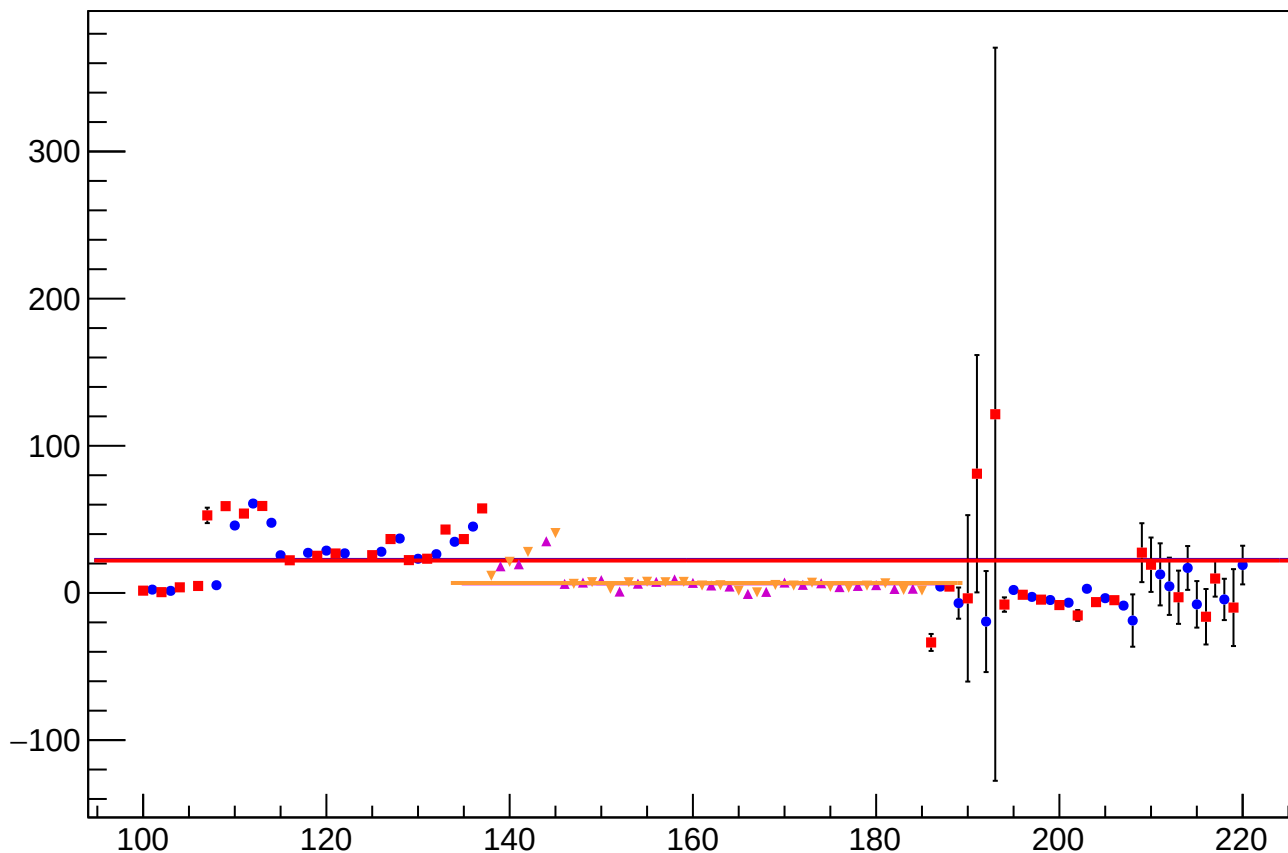
Right: 3.944 $\pm$ 0.153 χ^2 /NDF: 848.7/68

In: 2.306 $\pm$ 0.123 χ^2 /NDF:675.5/55

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:646.5/59

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1323.9/115

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.442 $\pm$ 0.369 χ^2 /NDF: 2708.2/32

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.025 $\pm$ 0.349 χ^2 /NDF: 3667.8/35

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

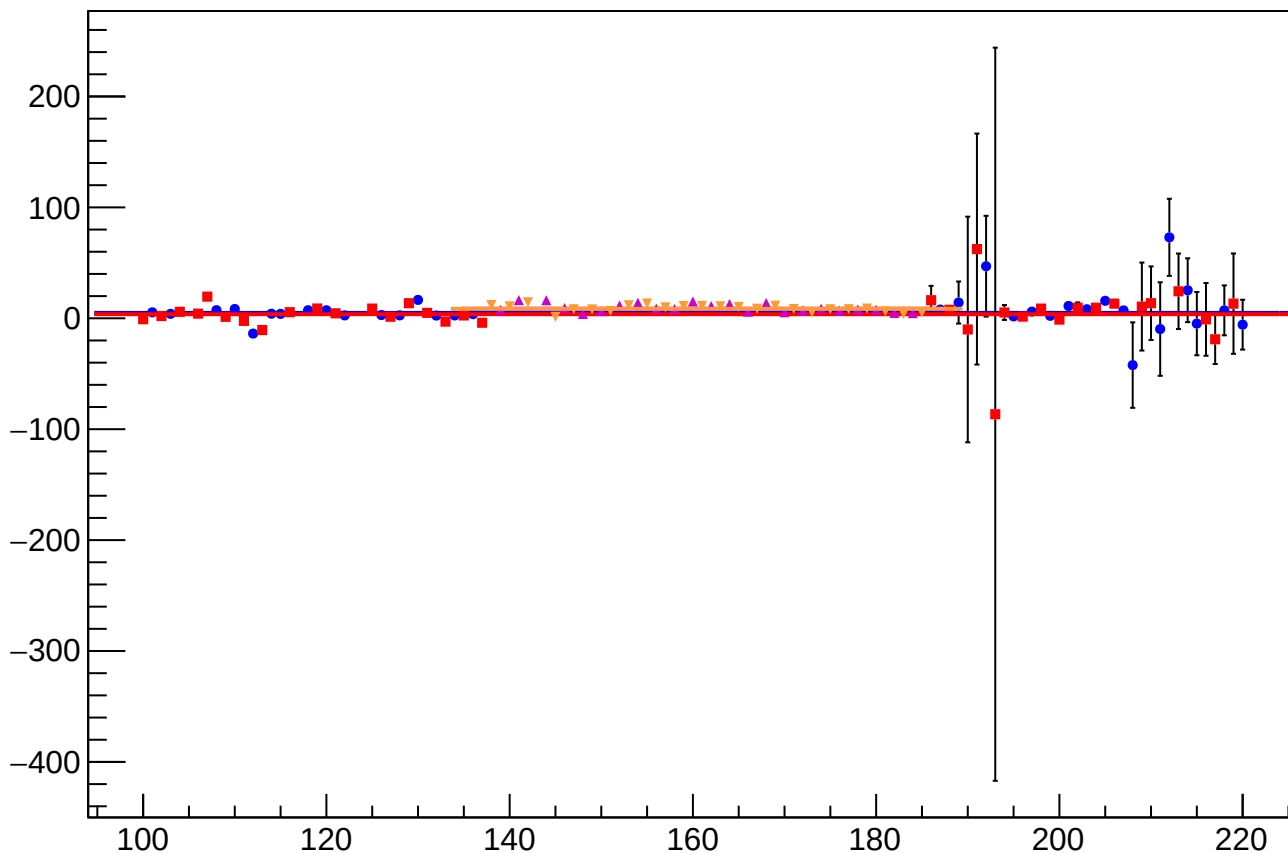
Right: 22.222 $\pm$ 0.254 χ^2 /NDF: 6376.7/68

In: 9.868 $\pm$ 0.169 χ^2 /NDF:5192.3/55

Out: 10.306 $\pm$ 0.168 χ^2 /NDF:6435.2/59

All: 10.089 $\pm$ 0.119 χ^2 /NDF: 11630.9/115

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.848 $\pm$ 0.250 χ^2 /NDF: 565.2/32

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.697 $\pm$ 0.250 χ^2 /NDF: 590.5/35

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

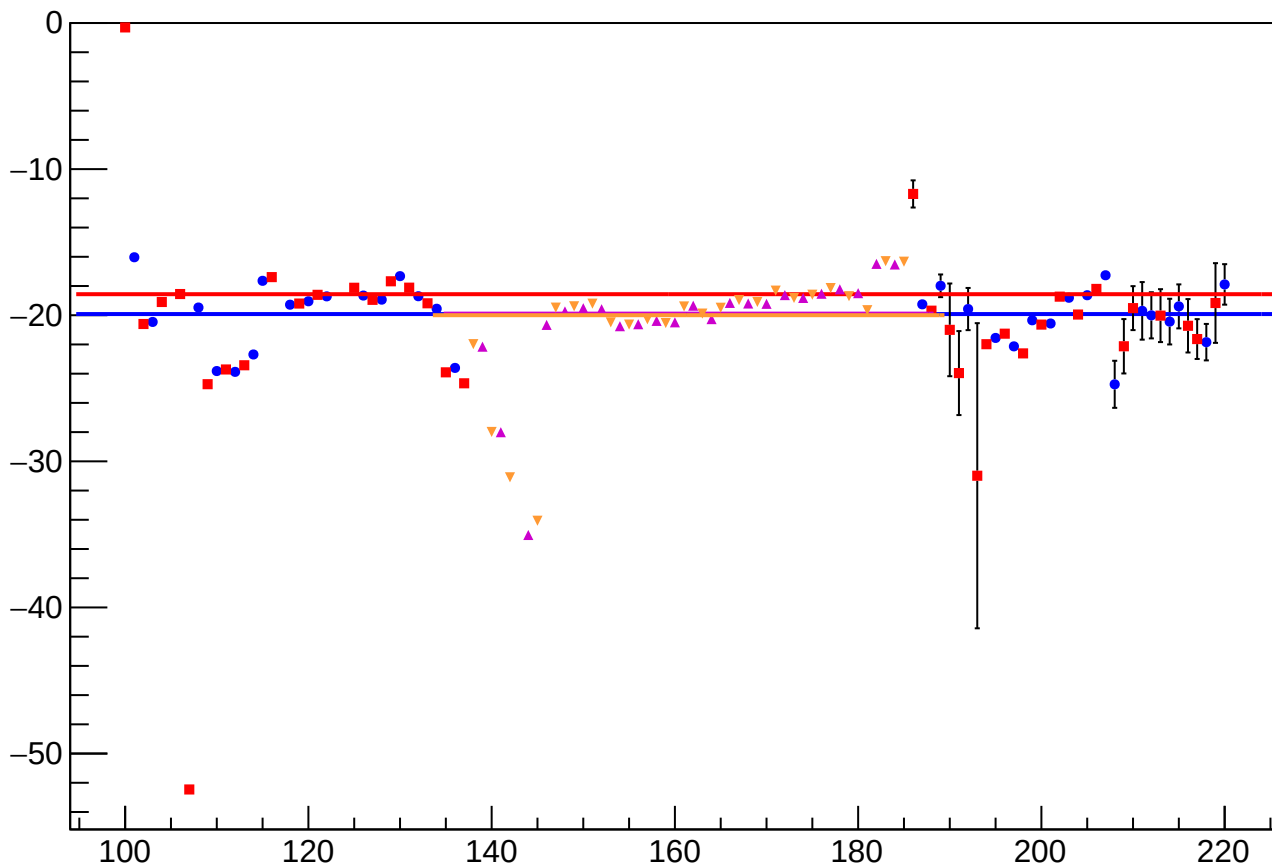
Right: 4.273 $\pm$ 0.177 χ^2 /NDF: 1166.3/68

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1159.9/55

Out: 7.054 $\pm$ 0.140 χ^2 /NDF:1098.4/59

All: 7.227 $\pm$ 0.099 χ^2 /NDF: 2261.4/115

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 $\pm$ 0.015 χ^2 /NDF: 27101.9/32

Left Out: -19.998 $\pm$ 0.008 χ^2 /NDF:171944.6/23

Right Out: -18.560 $\pm$ 0.014 χ^2 /NDF: 303735.3/35

Left In: -19.890 $\pm$ 0.008 χ^2 /NDF:144055.2/22

Left: -19.944 $\pm$ 0.006 χ^2 /NDF: 316093.4/46

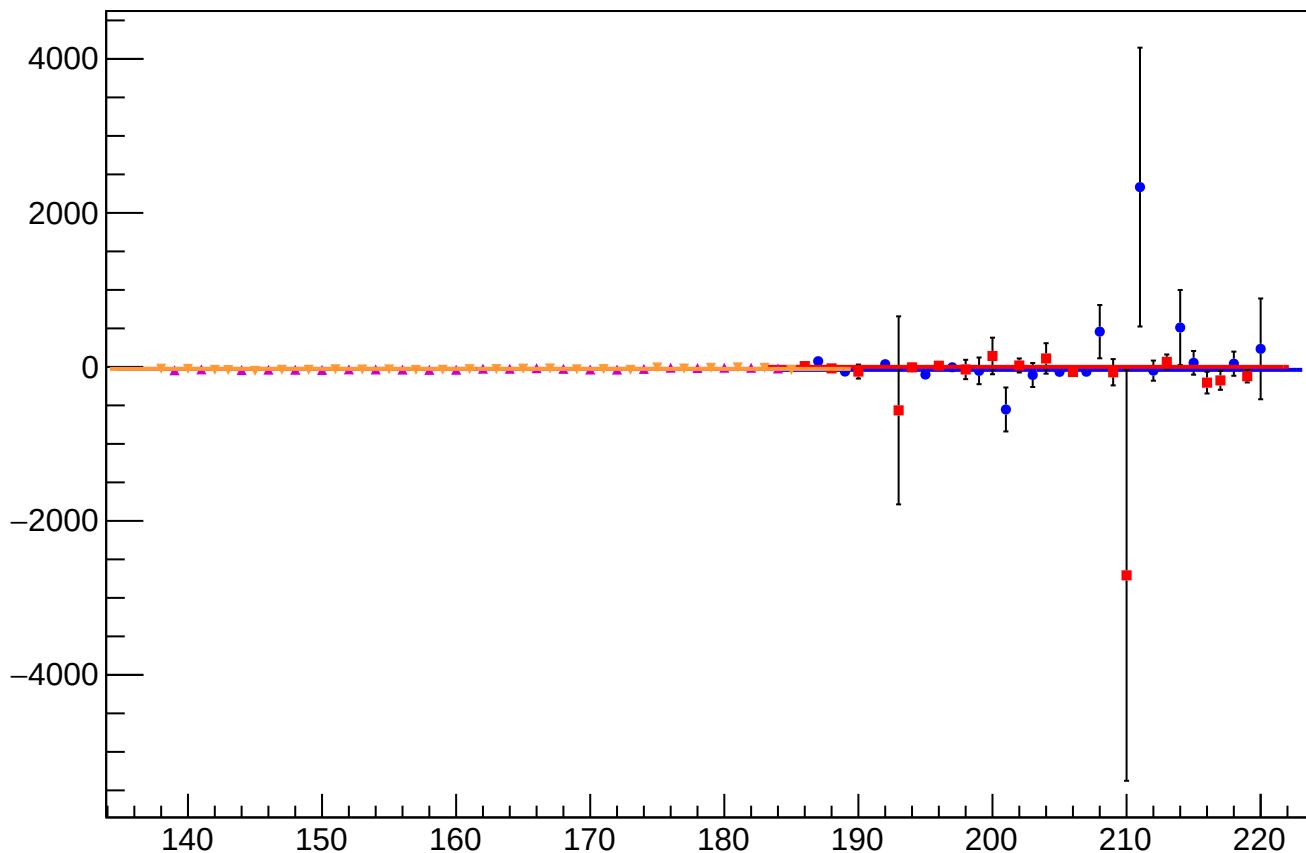
Right: -19.205 $\pm$ 0.010 χ^2 /NDF: 335255.8/68

In: -19.897 $\pm$ 0.007 χ^2 /NDF:171160.2/55

Out: -19.655 $\pm$ 0.007 χ^2 /NDF:483606.5/59

All: -19.775 $\pm$ 0.005 χ^2 /NDF: 655380.2/115

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.268 ± 12.888 χ^2/NDF : 21.8/16

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 0.535 ± 8.012 χ^2/NDF : 13.8/16

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

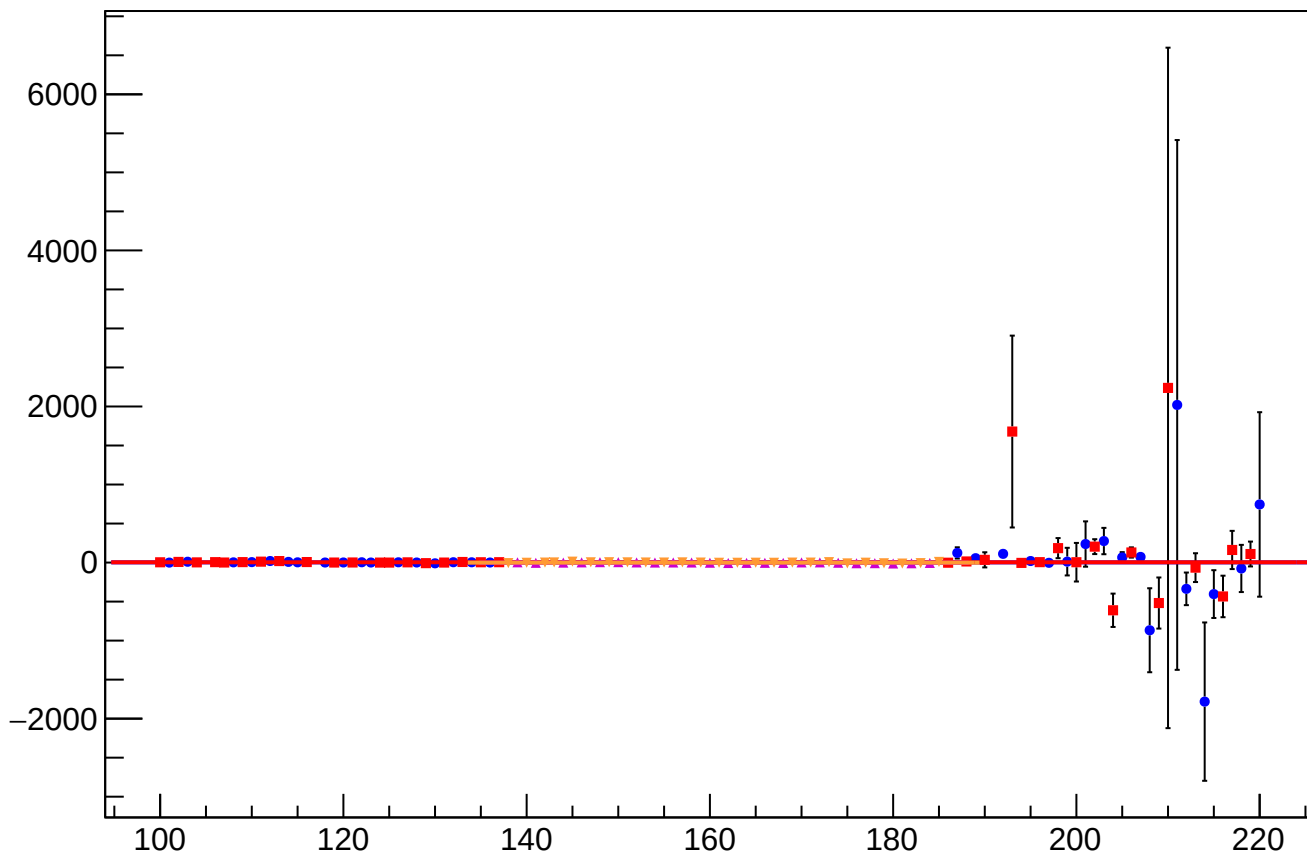
Right: -10.280 ± 6.804 χ^2/NDF : 42.2/33

In: -26.055 ± 0.195 χ^2/NDF : 3302.2/39

Out: -25.869 ± 0.192 χ^2/NDF : 4182.7/41

All: -25.961 ± 0.137 χ^2/NDF : 7485.3/81

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.5/33

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 296.2/35

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

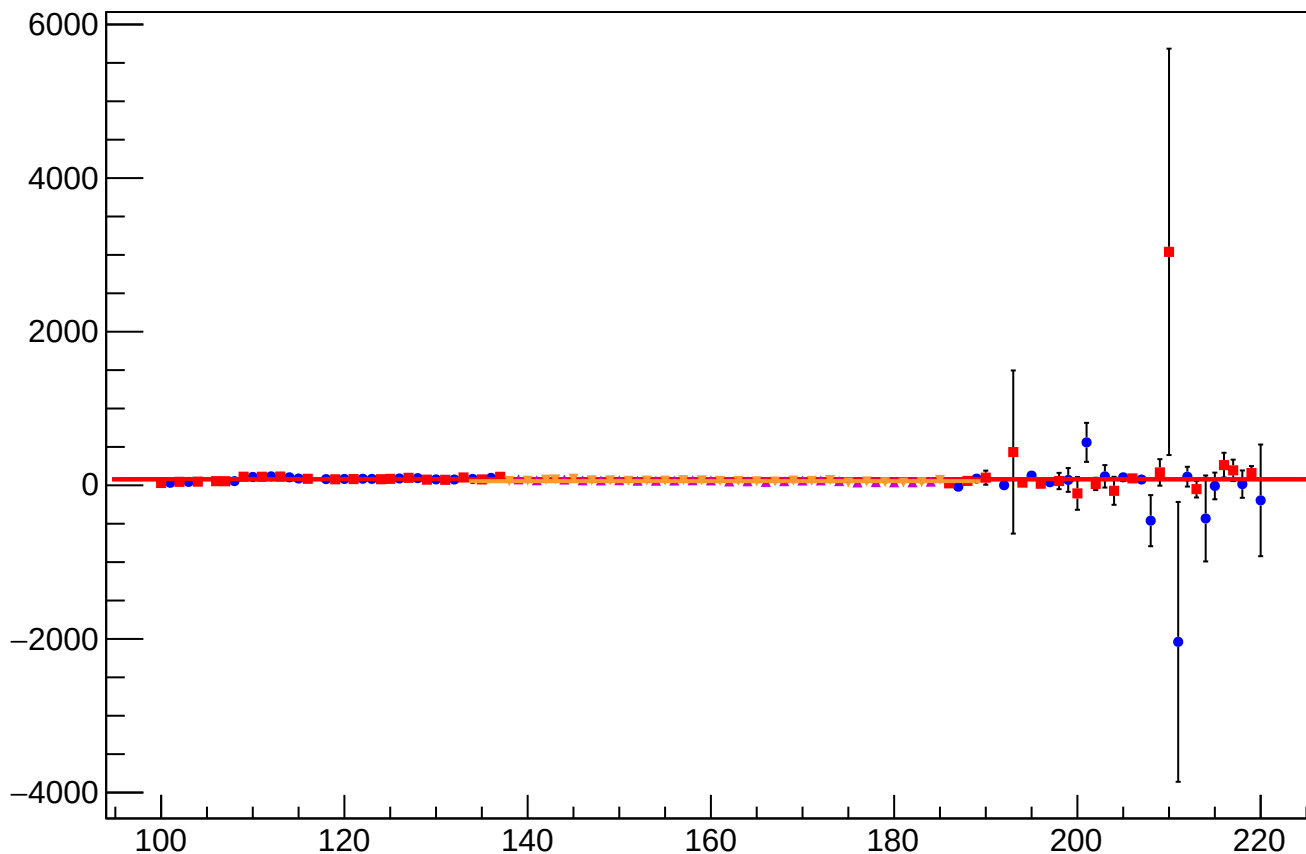
Right: 3.072+/-0.227 χ^2/NDF : 628.2/69

In: -0.242+/-0.136 χ^2/NDF : 1482.6/56

Out: 0.075+/-0.133 χ^2/NDF : 1766.2/60

All: -0.081+/-0.095 χ^2/NDF : 3251.6/117

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.530 $\pm$ 0.576 χ^2 /NDF: 2274.7/33

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.495 $\pm$ 0.590 χ^2 /NDF: 1638.3/35

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

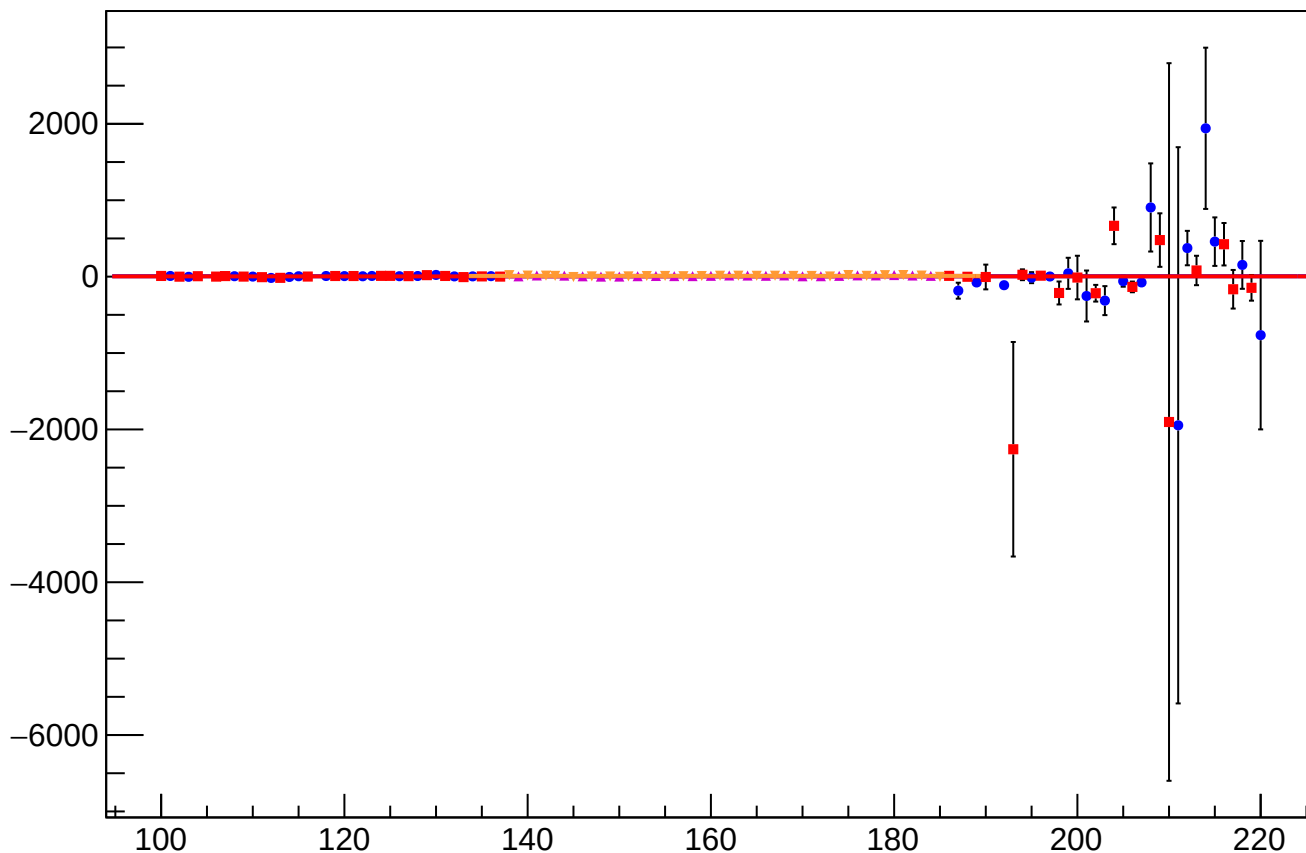
Right: 78.952 $\pm$ 0.412 χ^2 /NDF: 3949.2/69

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.2/56

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8026.0/60

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15252.2/117

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 416.1/33

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 447.8/35

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

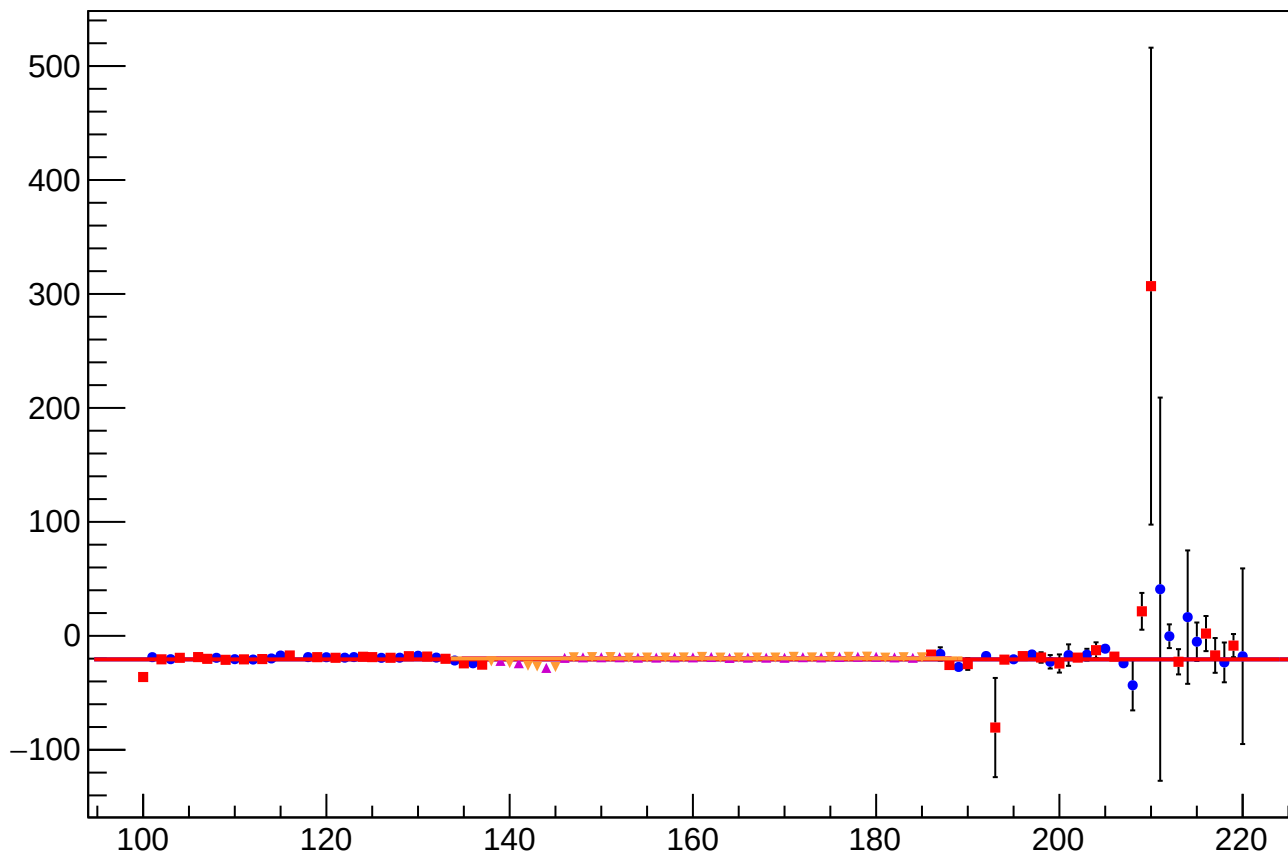
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 876.2/69

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.8/56

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2122.2/60

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3819.7/117

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12460.3/33$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13822.8/35$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

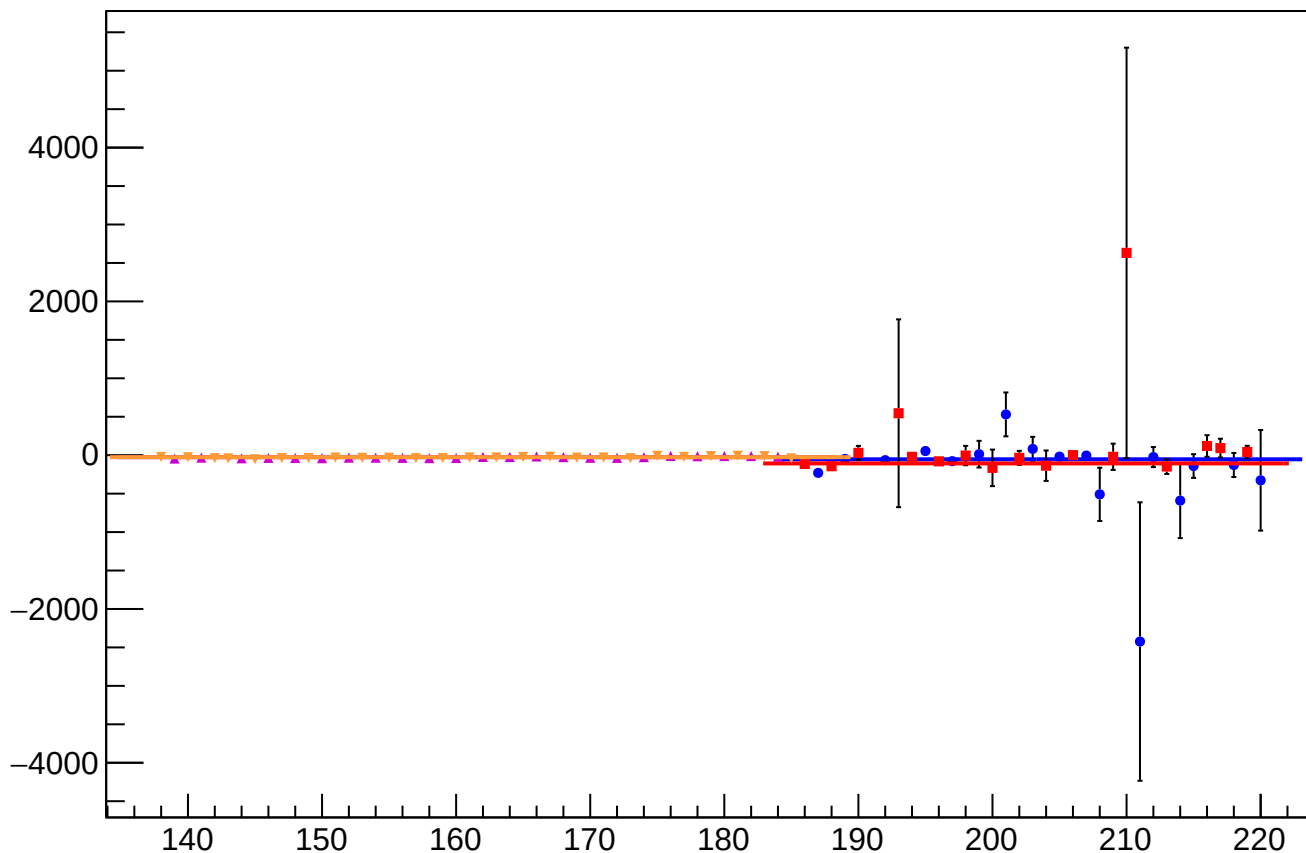
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26283.1/69$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68968.4/56$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107162.0/60$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176858.9/117$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.462 $\pm$ 12.898 χ^2 /NDF: 33.0/16

Left Out: -25.899 $\pm$ 0.192 χ^2 /NDF:4127.5/24

Right Out: -106.957 $\pm$ 8.017 χ^2 /NDF: 25.8/16

Left In: -26.046 $\pm$ 0.195 χ^2 /NDF:3246.7/22

Left: -25.971 $\pm$ 0.137 χ^2 /NDF: 7374.6/47

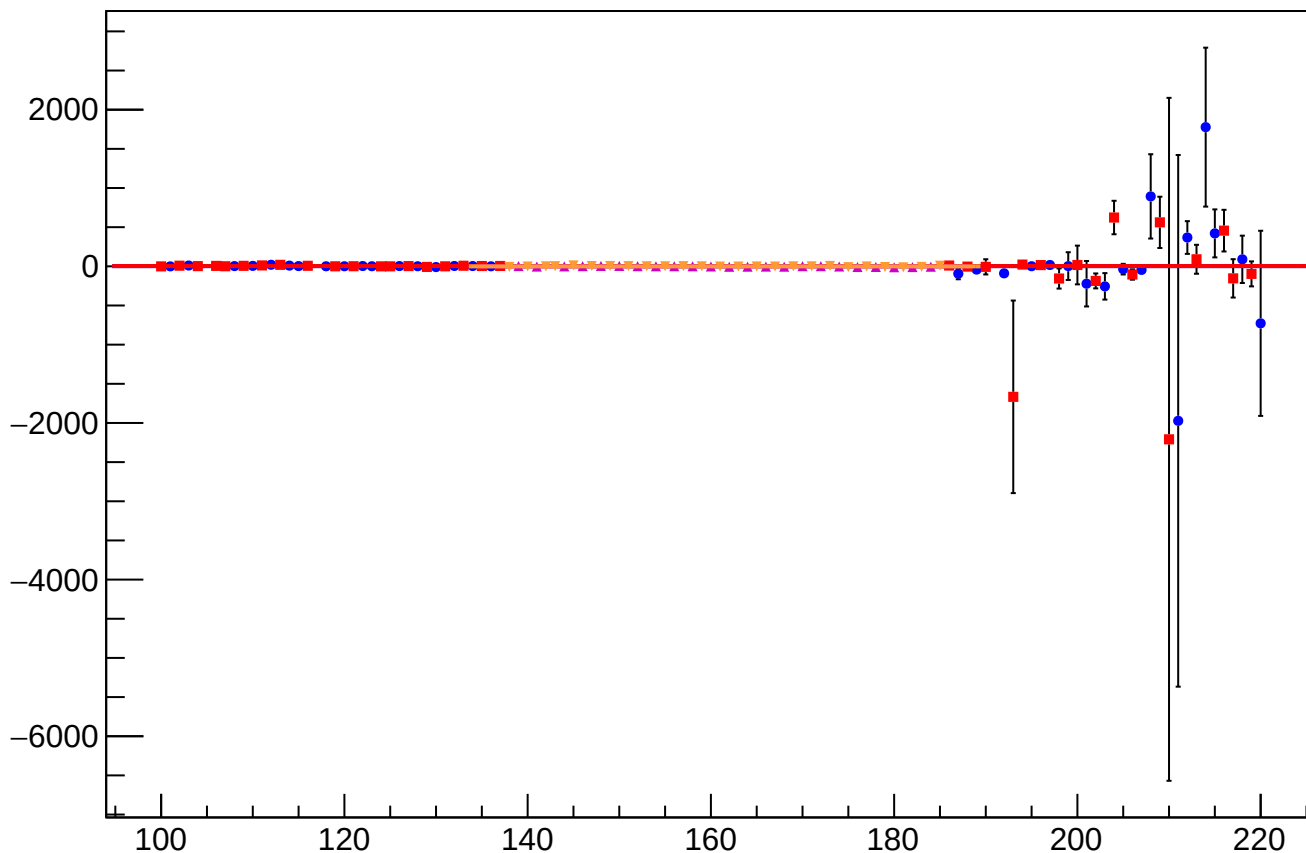
Right: -92.048 $\pm$ 6.809 χ^2 /NDF: 71.2/33

In: -26.052 $\pm$ 0.195 χ^2 /NDF:3284.3/39

Out: -25.945 $\pm$ 0.192 χ^2 /NDF:4255.5/41

All: -25.998 $\pm$ 0.137 χ^2 /NDF: 7539.9/81

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 $\pm$ 0.315 χ^2 /NDF: 317.0/33

Left Out: -0.596 $\pm$ 0.146 χ^2 /NDF: 1310.7/24

Right Out: 3.593 $\pm$ 0.318 χ^2 /NDF: 306.1/35

Left In: -0.795 $\pm$ 0.151 χ^2 /NDF: 1106.3/22

Left: -0.693 $\pm$ 0.105 χ^2 /NDF: 2417.9/47

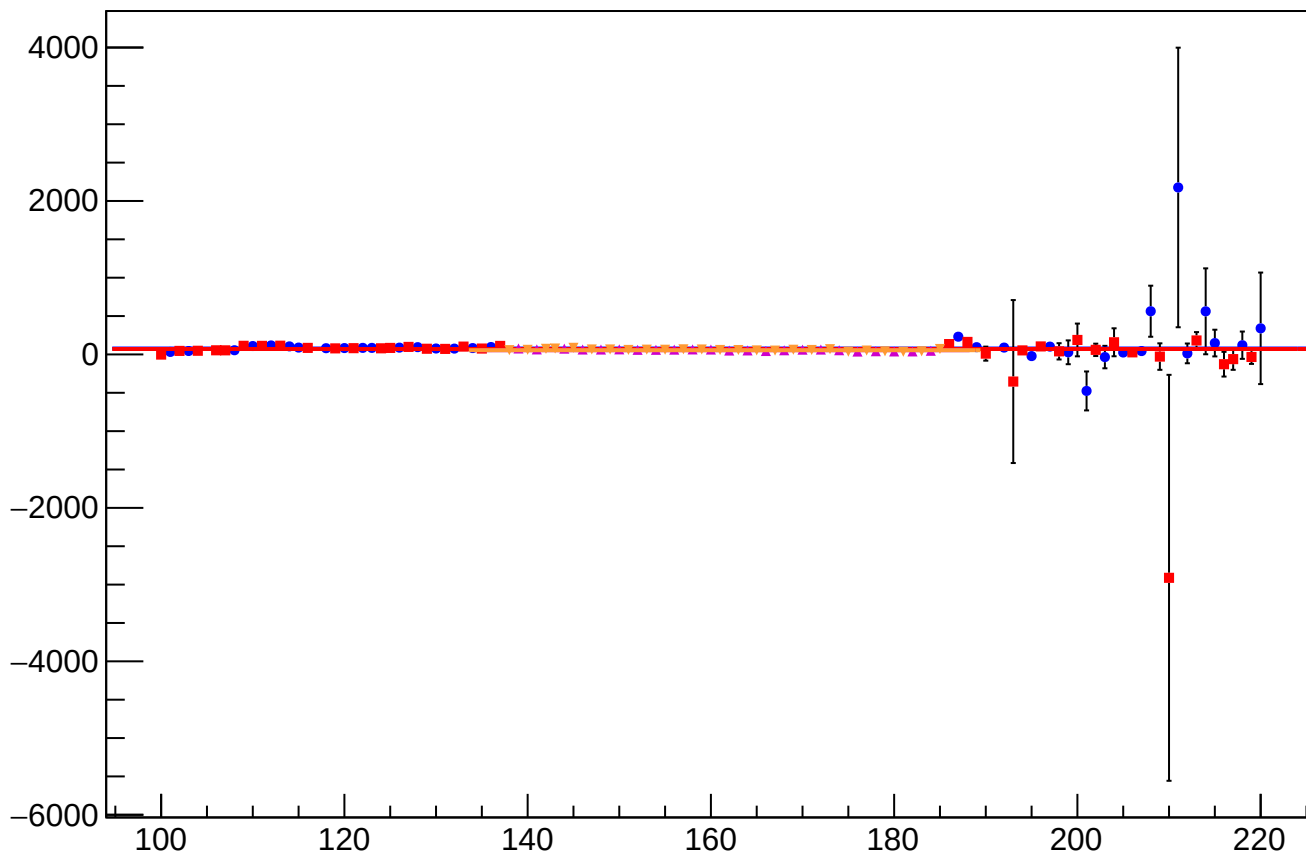
Right: 3.011 $\pm$ 0.224 χ^2 /NDF: 629.8/69

In: -0.193 $\pm$ 0.136 χ^2 /NDF: 1509.1/56

Out: 0.136 $\pm$ 0.133 χ^2 /NDF: 1760.1/60

All: -0.025 $\pm$ 0.095 χ^2 /NDF: 3272.3/117

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.711 $\pm$ 0.576 χ^2 /NDF: 2301.1/33

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.742 $\pm$ 0.549 χ^2 /NDF: 4498.8/35

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

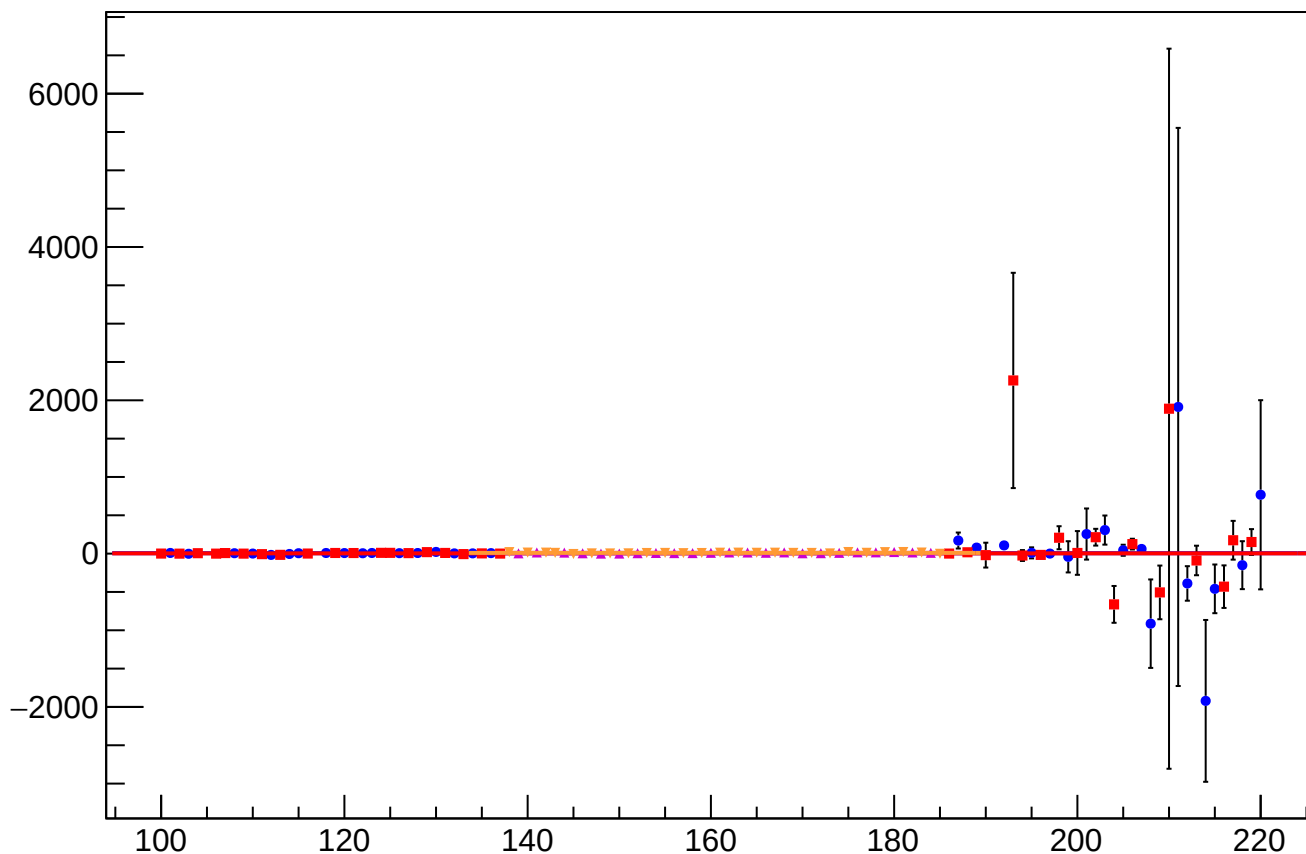
Right: 73.579 $\pm$ 0.397 χ^2 /NDF: 6856.2/69

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.3/56

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9782.6/60

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17015.3/117

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443 $\pm$ 0.361 χ^2 /NDF: 410.3/33

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 450.4/35

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

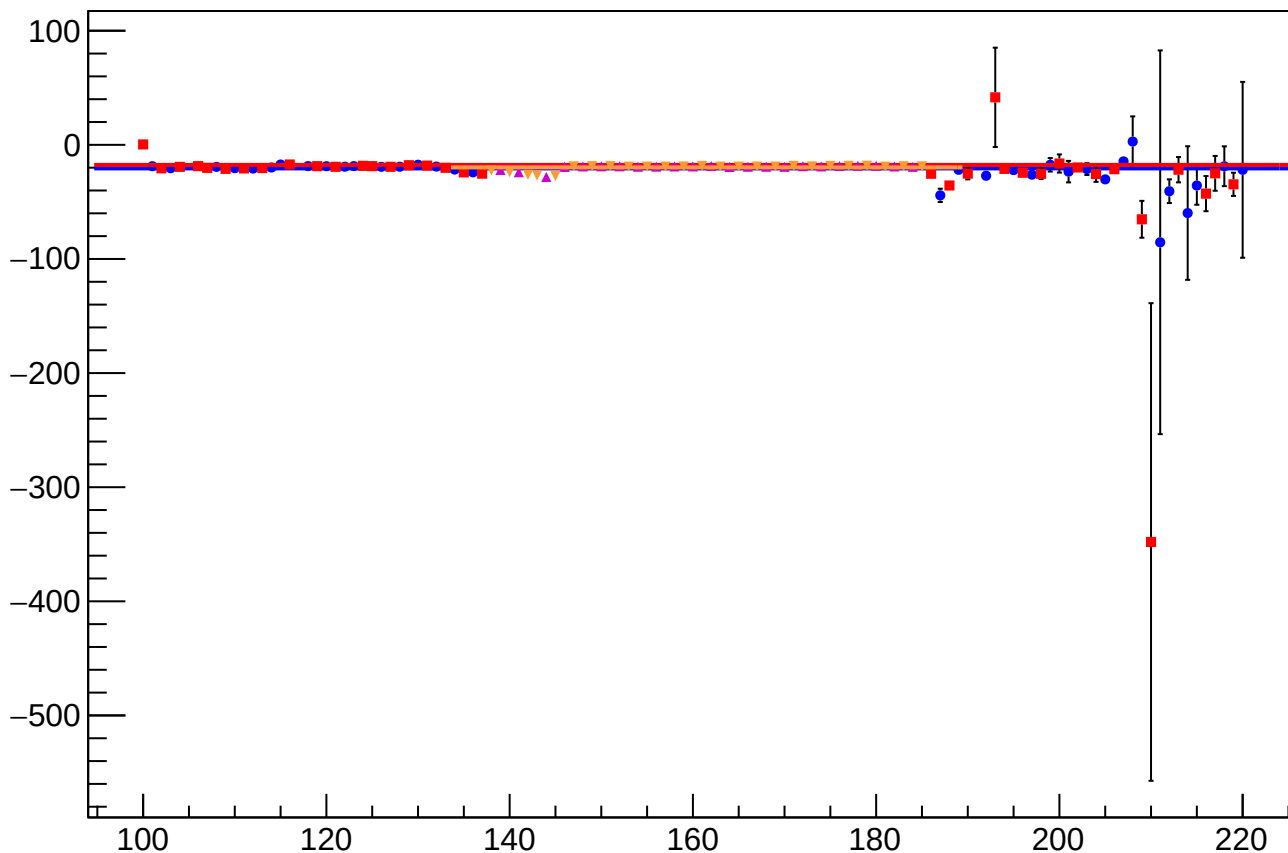
Right: 4.376 $\pm$ 0.257 χ^2 /NDF: 878.4/69

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1716.8/56

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2144.4/60

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3864.3/117

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12521.0/33$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178458.6/35$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

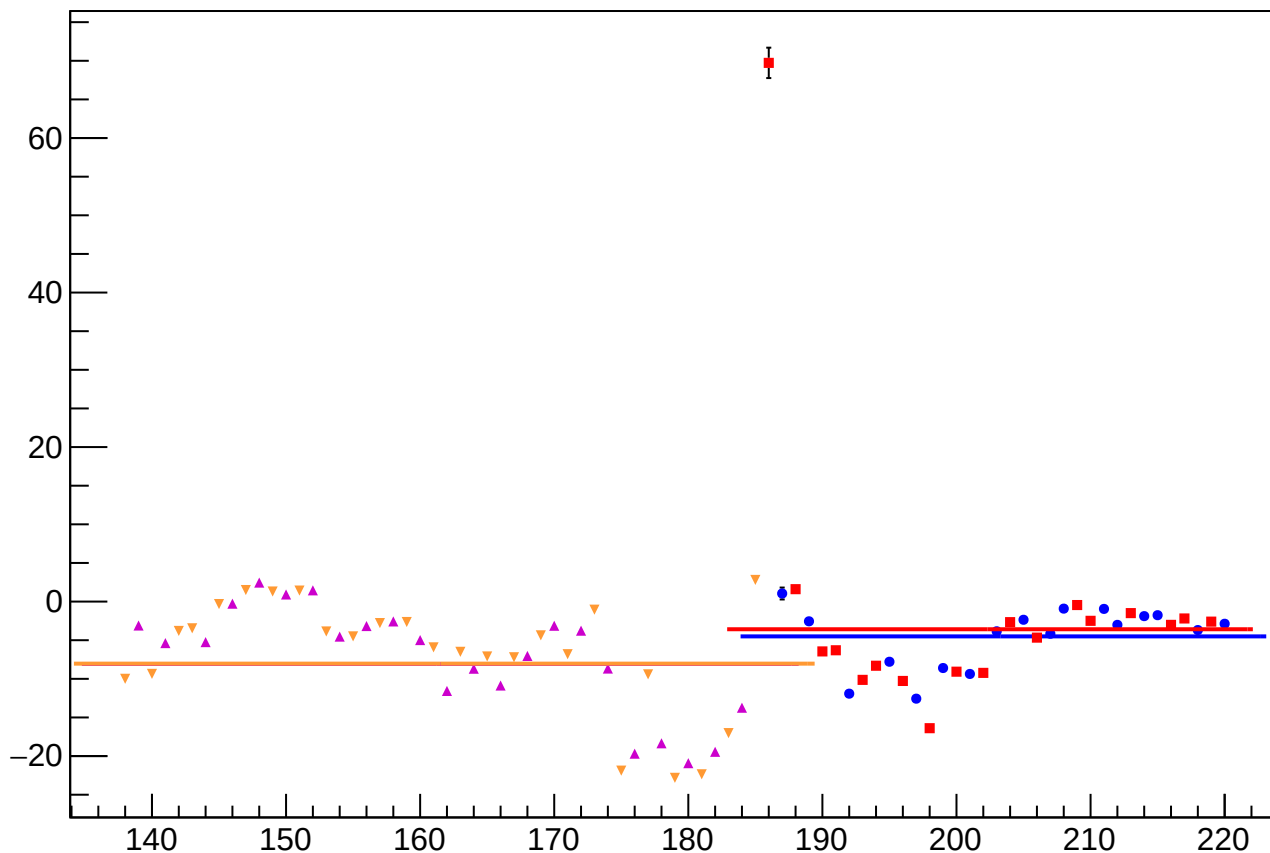
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204449.1/69$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68942.9/56$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282444.3/60$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351750.4/117$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

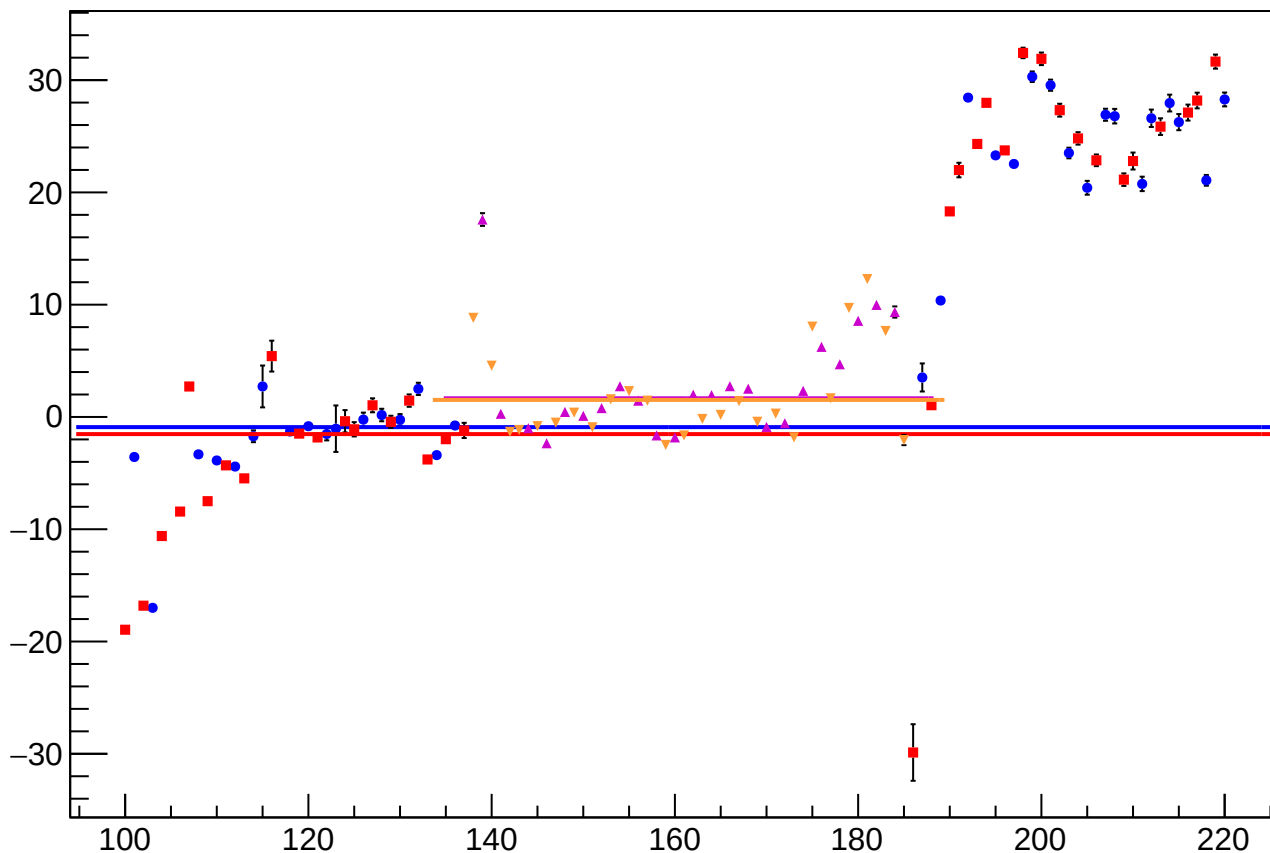


Right In: -4.505 ± 0.093 $\chi^2/\text{NDF}: 1587.1/16$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.581 ± 0.086 $\chi^2/\text{NDF}: 4172.9/17$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -4.011 ± 0.063 $\chi^2/\text{NDF}: 5813.2/34$
 In: -6.737 ± 0.057 $\chi^2/\text{NDF}: 13055.0/39$
 Out: -6.261 ± 0.055 $\chi^2/\text{NDF}: 18338.0/42$

All: -6.489 ± 0.039 $\chi^2/\text{NDF}: 31429.5/82$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.905 ± 0.050 $\chi^2/\text{NDF}: 55204.0/33$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.527 ± 0.053 $\chi^2/\text{NDF}: 64315.6/36$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

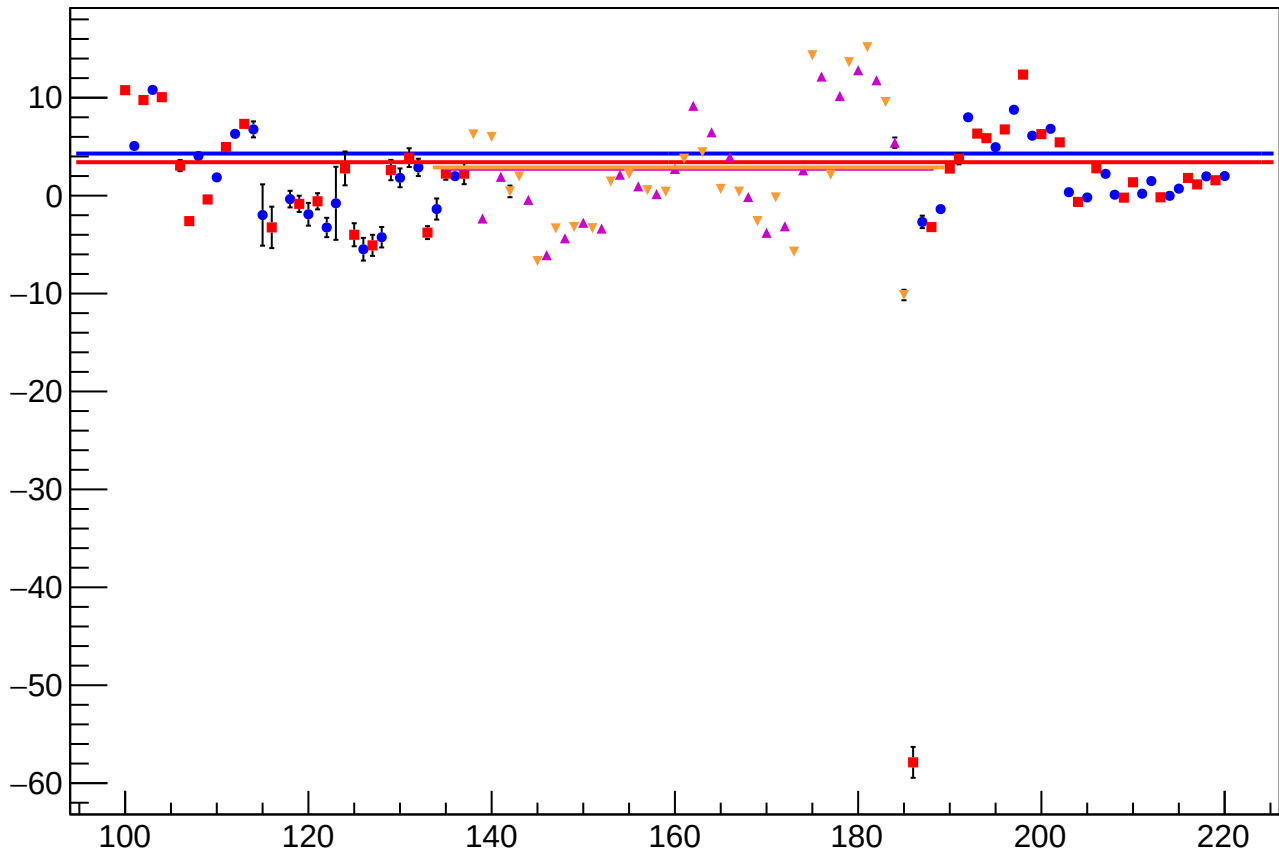
Right: -1.202 ± 0.037 $\chi^2/\text{NDF}: 119592.0/70$

In: 0.232 ± 0.038 $\chi^2/\text{NDF}: 60385.1/56$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 70775.7/61$

All: 0.094 ± 0.027 $\chi^2/\text{NDF}: 131188.0/118$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.298+/-0.064 χ^2/NDF : 3386.0/33

Left Out: 2.884+/-0.070 χ^2/NDF : 8893.2/24

Right Out: 3.415+/-0.061 χ^2/NDF : 8149.6/36

Left In: 2.745+/-0.071 χ^2/NDF : 7183.1/22

Left: 2.816+/-0.050 χ^2/NDF : 16078.2/47

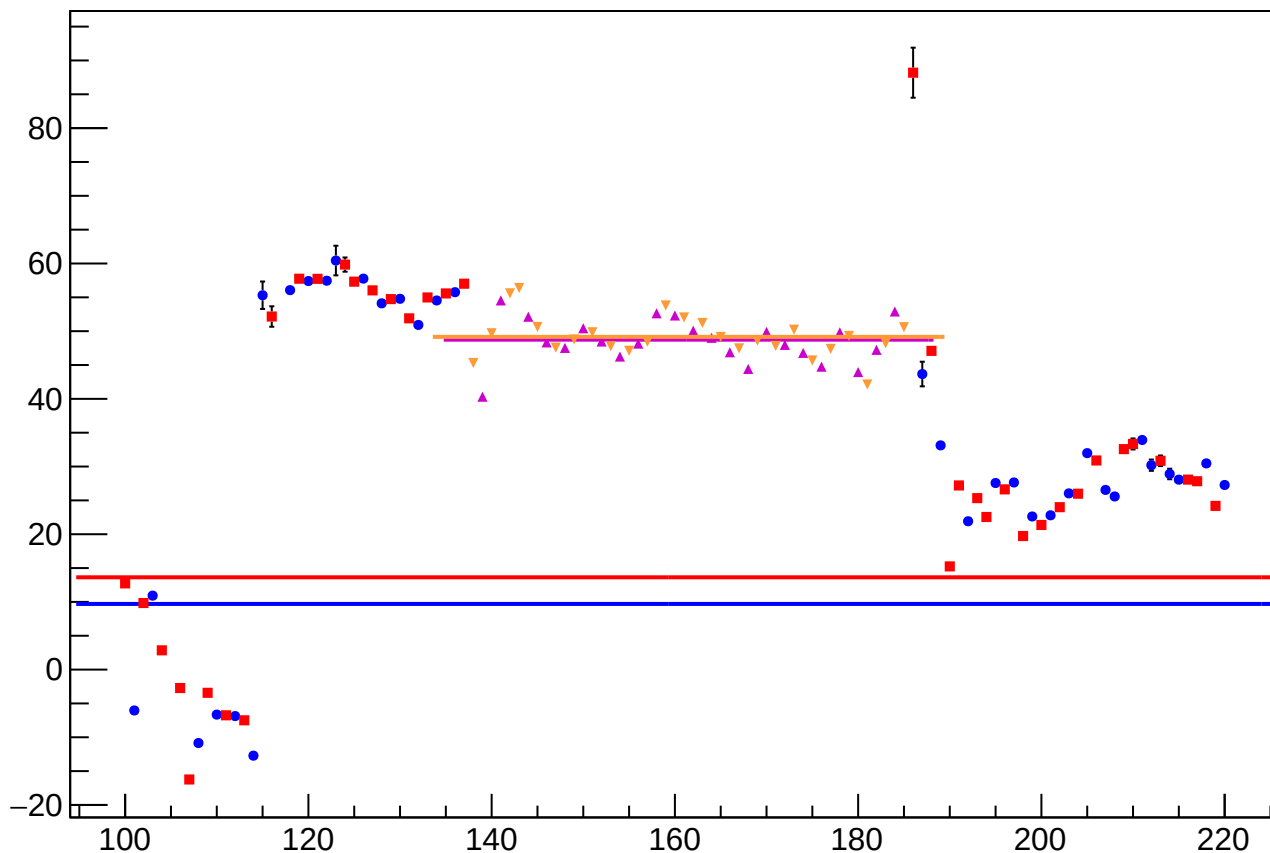
Right: 3.839+/-0.044 χ^2/NDF : 11635.9/70

In: 3.611+/-0.048 χ^2/NDF : 10832.6/56

Out: 3.186+/-0.046 χ^2/NDF : 17075.3/61

All: 3.392+/-0.033 χ^2/NDF : 27949.1/118

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.701+/-0.059 χ^2/NDF : 138696.1/33

Left Out: 49.163+/-0.062 χ^2/NDF : 2259.9/24

Right Out: 13.635+/-0.063 χ^2/NDF : 138810.7/36

Left In: 48.744+/-0.064 χ^2/NDF : 2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

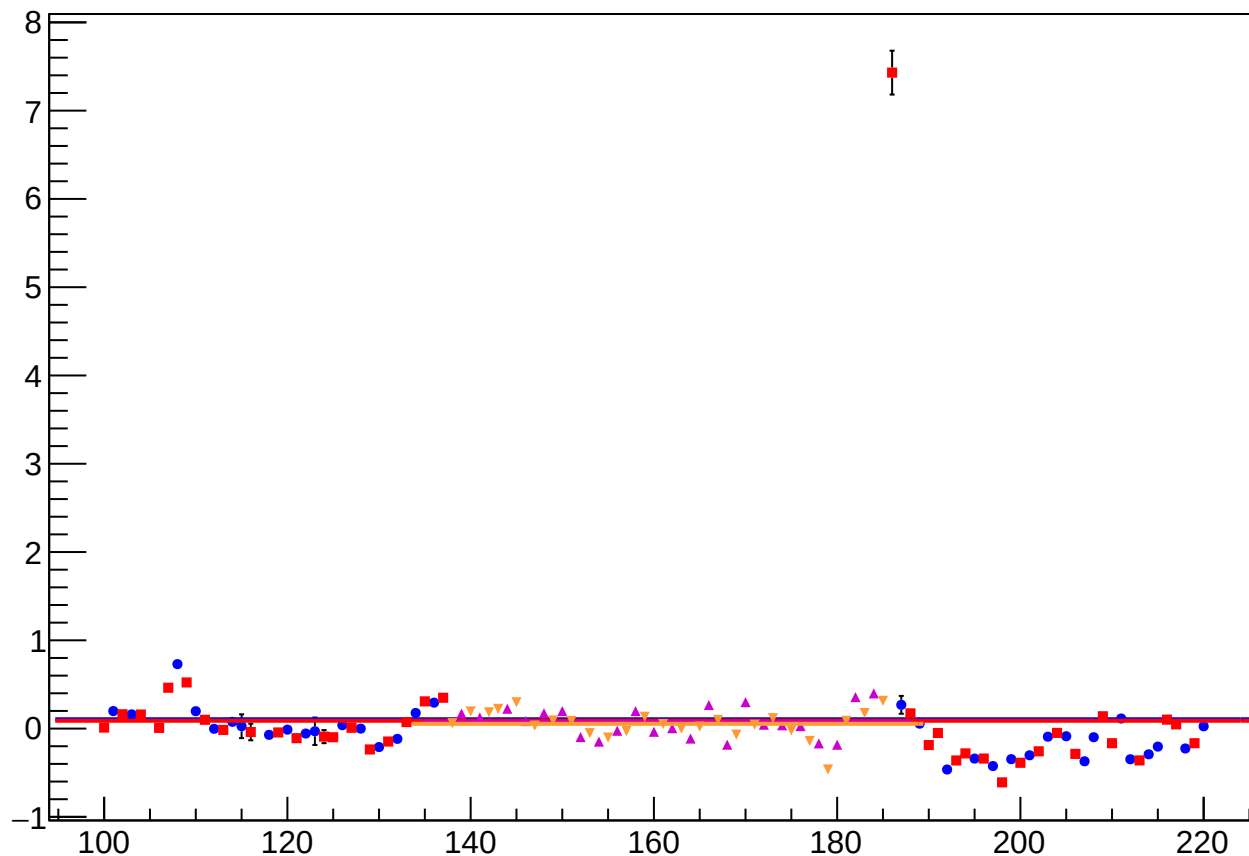
Right: 11.562+/-0.043 χ^2/NDF : 279592.3/70

In: 27.792+/-0.043 χ^2/NDF : 341972.6/56

Out: 31.628+/-0.044 χ^2/NDF : 304505.0/61

All: 29.687+/-0.031 χ^2/NDF : 650334.9/118

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.106+/-0.002 χ^2/NDF : 12002.5/33

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.089+/-0.002 χ^2/NDF : 11152.9/36

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

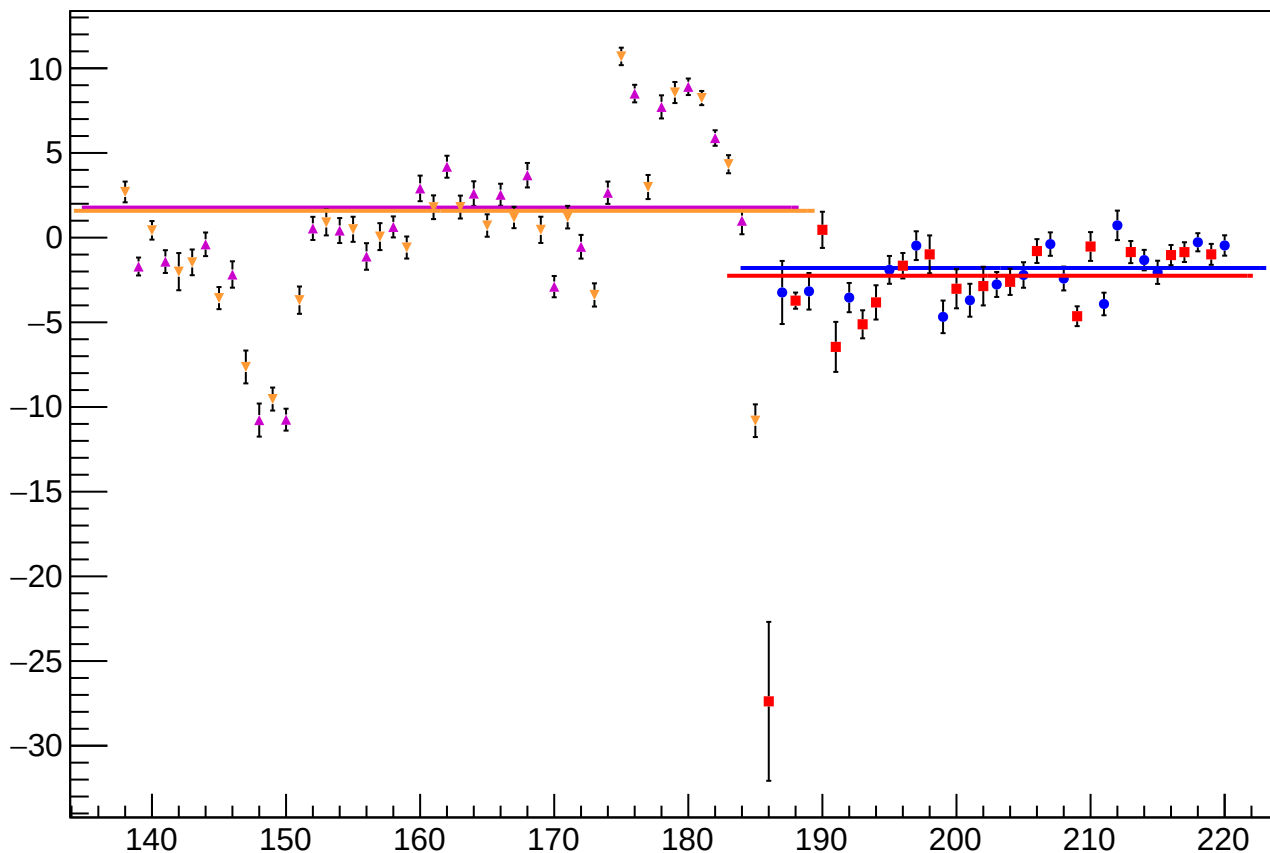
Right: 0.097+/-0.002 χ^2/NDF : 23180.7/70

In: 0.091+/-0.002 χ^2/NDF : 15325.4/56

Out: 0.074+/-0.002 χ^2/NDF : 13621.8/61

All: 0.082+/-0.001 χ^2/NDF : 28987.2/118

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.792 ± 0.183 χ^2/NDF : 60.8/16

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.250 ± 0.180 χ^2/NDF : 113.8/17

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

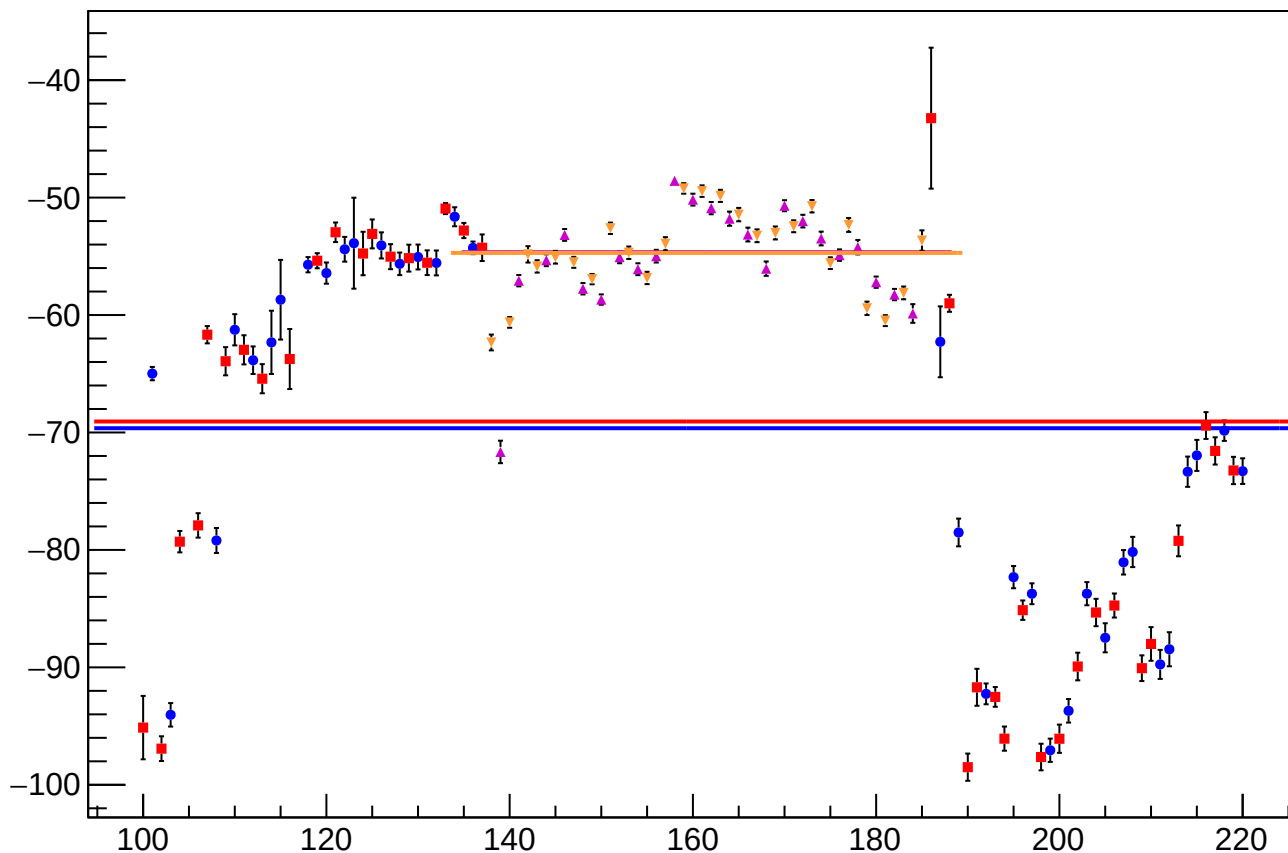
Right: -2.025 ± 0.128 χ^2/NDF : 177.7/34

In: 0.513 ± 0.109 χ^2/NDF : 1603.9/39

Out: 0.230 ± 0.107 χ^2/NDF : 1867.6/42

All: 0.369 ± 0.076 χ^2/NDF : 3474.9/82

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.637 ± 0.172 $\chi^2/\text{NDF}: 7346.7/33$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -69.066 ± 0.164 $\chi^2/\text{NDF}: 10393.1/36$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

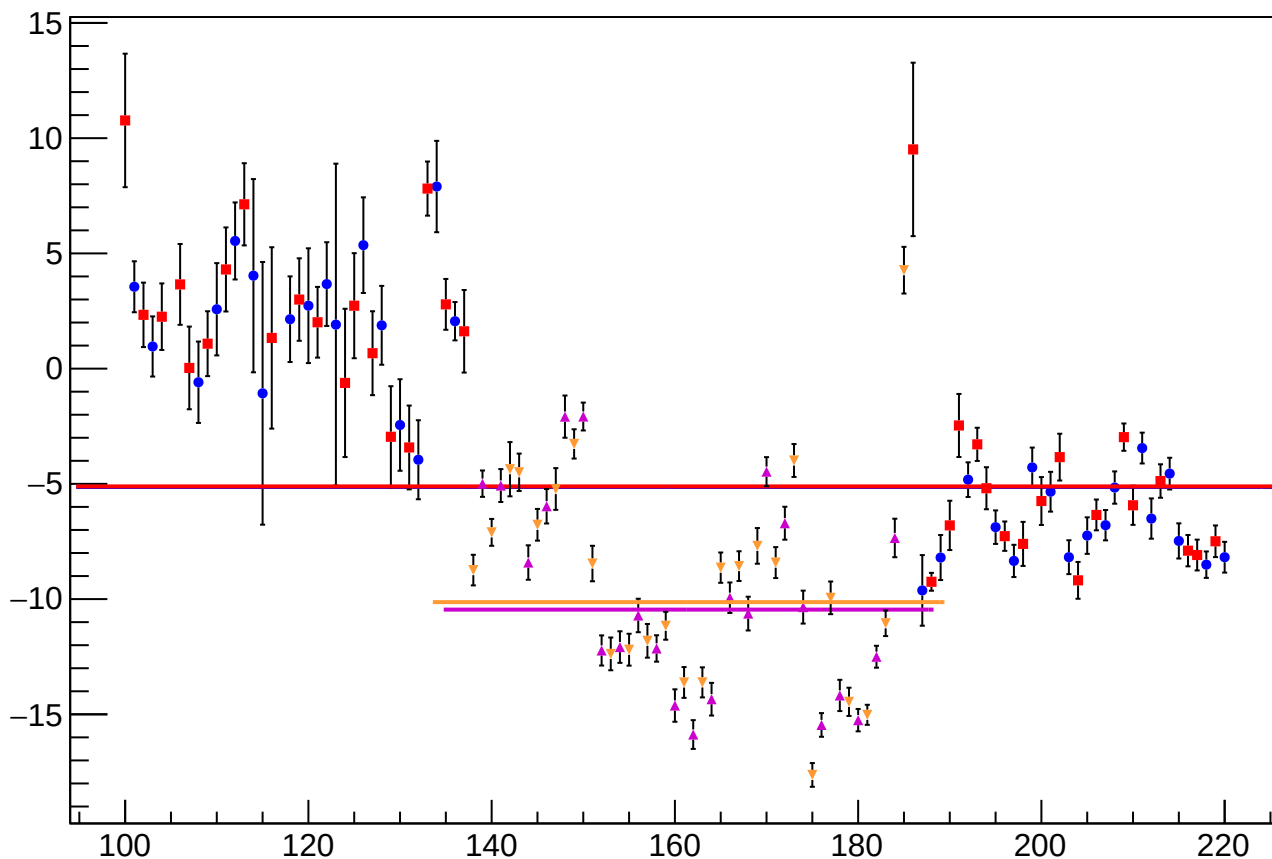
Right: -69.338 ± 0.119 $\chi^2/\text{NDF}: 17745.6/70$

In: -58.995 ± 0.093 $\chi^2/\text{NDF}: 13827.0/56$

Out: -58.919 ± 0.089 $\chi^2/\text{NDF}: 16932.7/61$

All: -58.956 ± 0.064 $\chi^2/\text{NDF}: 30760.1/118$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.134 ± 0.166 $\chi^2/\text{NDF}: 515.1/33$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -5.111 ± 0.158 $\chi^2/\text{NDF}: 722.0/36$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

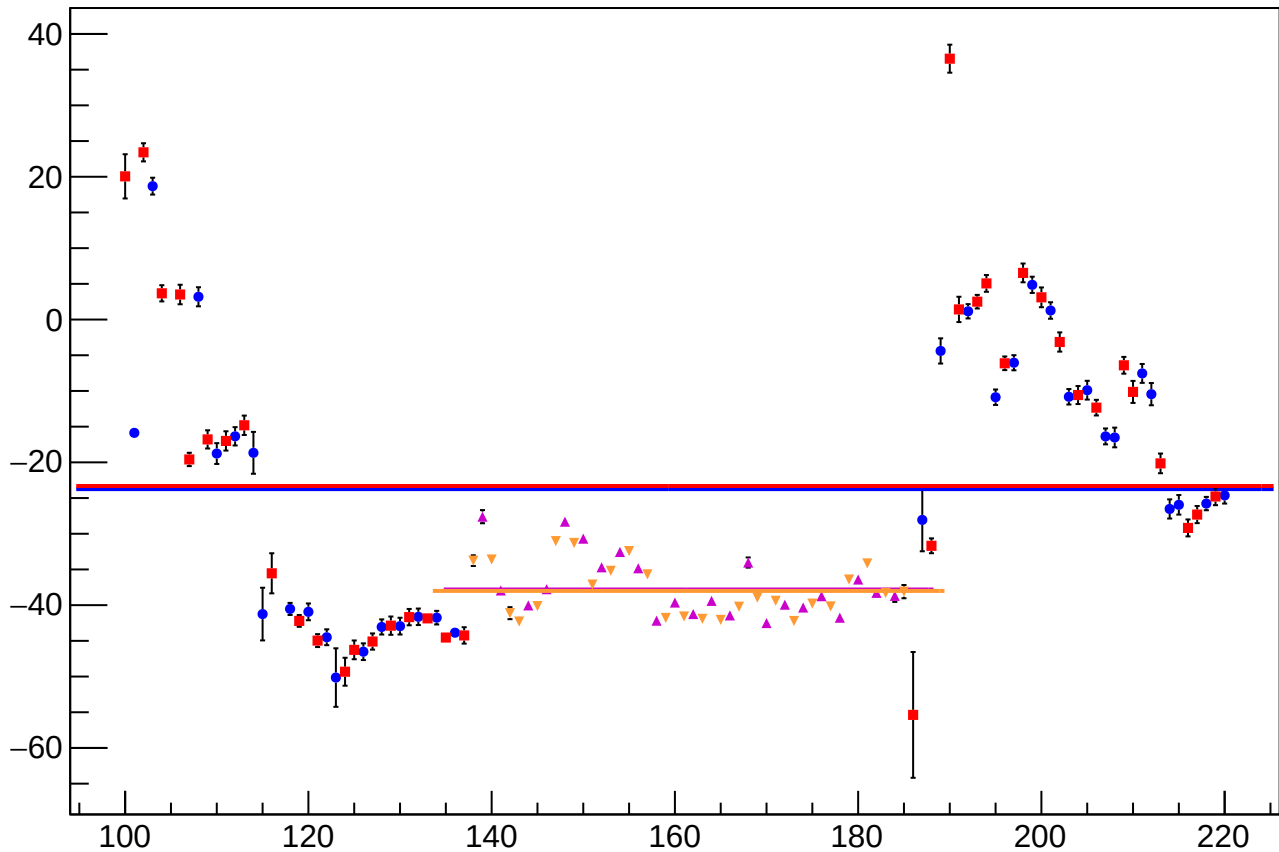
Right: -5.122 ± 0.115 $\chi^2/\text{NDF}: 1237.1/70$

In: -8.341 ± 0.105 $\chi^2/\text{NDF}: 2138.8/56$

Out: -8.060 ± 0.102 $\chi^2/\text{NDF}: 2366.9/61$

All: -8.197 ± 0.073 $\chi^2/\text{NDF}: 4509.4/118$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.747 ± 0.194 $\chi^2/\text{NDF}: 8674.9/33$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.314 ± 0.189 $\chi^2/\text{NDF}: 11929.9/36$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

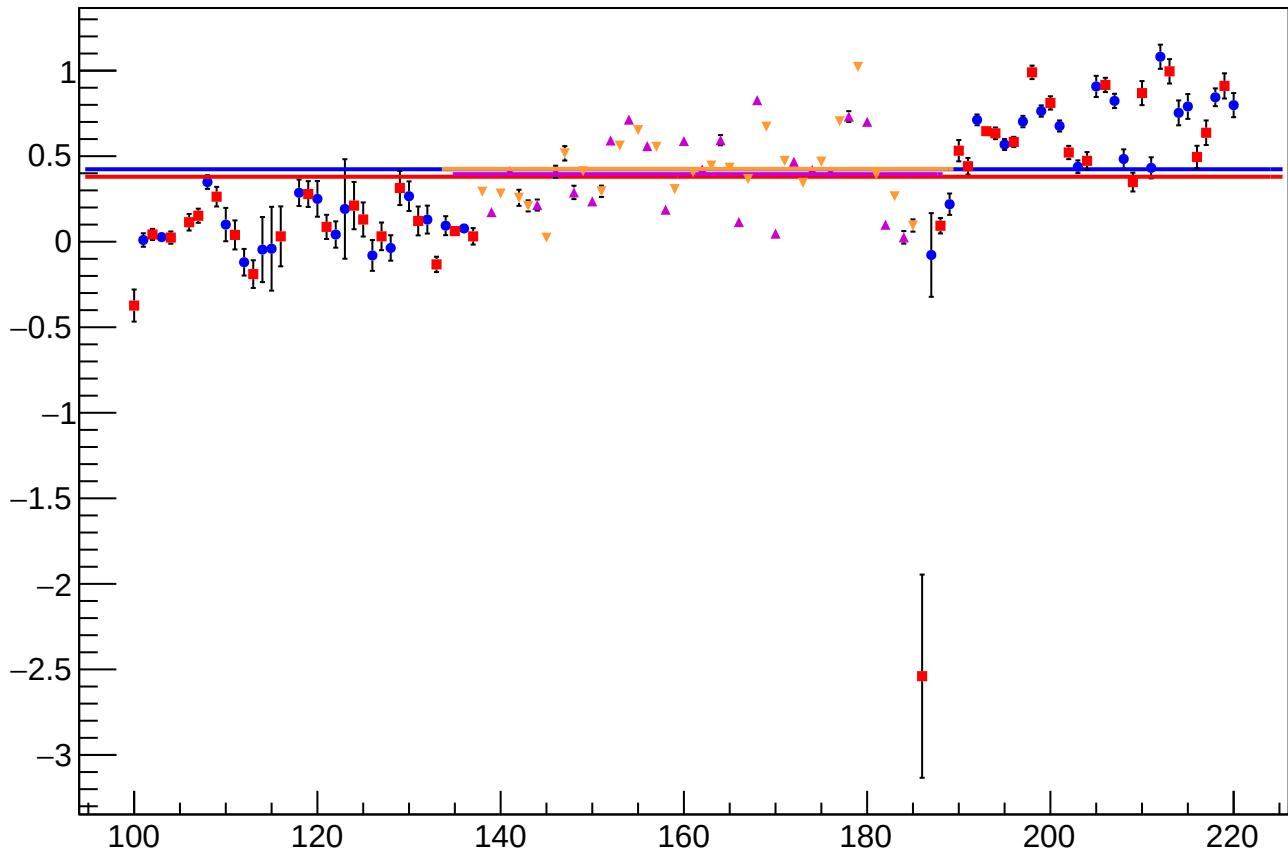
Right: -23.525 ± 0.135 $\chi^2/\text{NDF}: 20607.3/70$

In: -33.805 ± 0.103 $\chi^2/\text{NDF}: 13479.9/56$

Out: -33.842 ± 0.101 $\chi^2/\text{NDF}: 17215.1/61$

All: -33.824 ± 0.072 $\chi^2/\text{NDF}: 30695.1/118$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.424 ± 0.008 χ^2/NDF : 1499.5/33

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.380 ± 0.008 χ^2/NDF : 1776.3/36

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

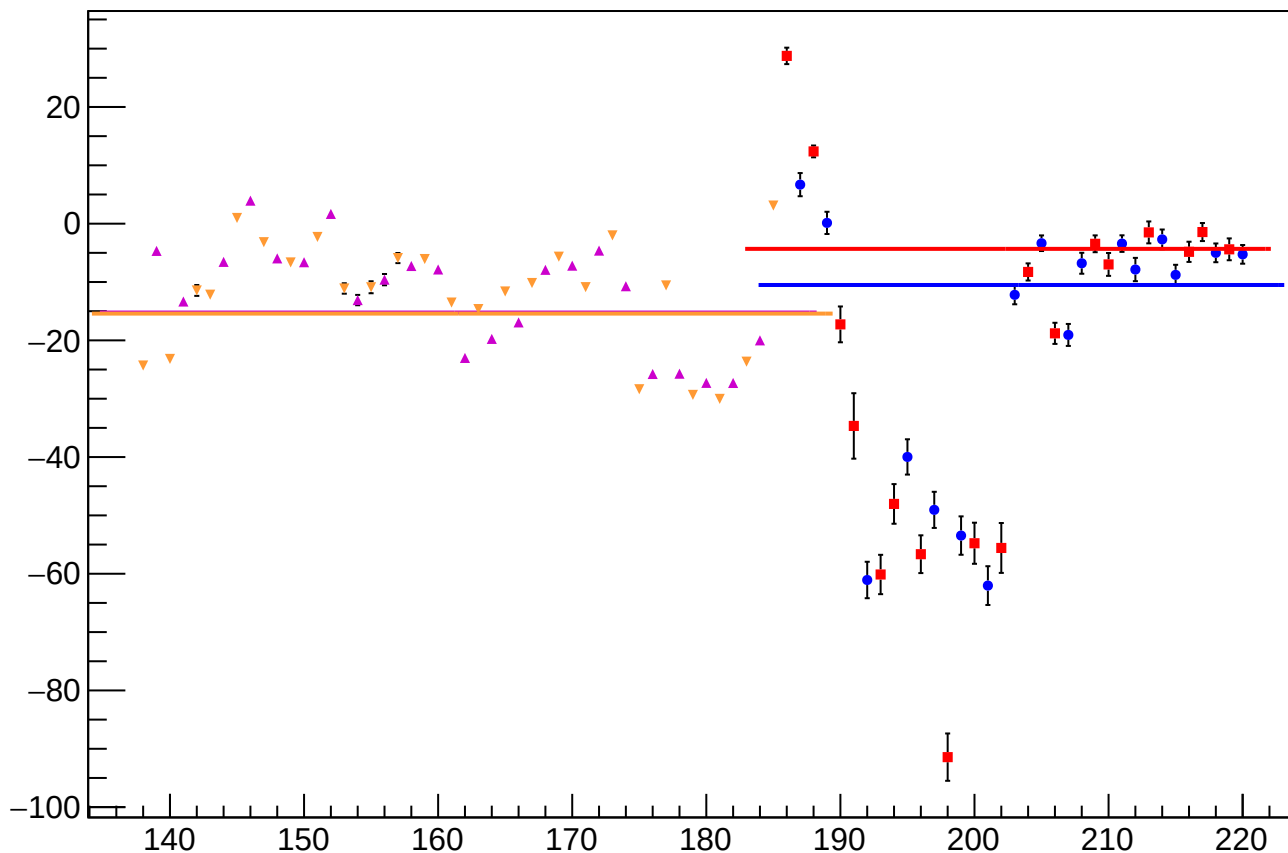
Right: 0.401 ± 0.006 χ^2/NDF : 3290.0/70

In: 0.404 ± 0.005 χ^2/NDF : 3305.9/56

Out: 0.412 ± 0.004 χ^2/NDF : 3102.5/61

All: 0.408 ± 0.003 χ^2/NDF : 6410.0/118

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.509 ± 0.458 $\chi^2/\text{NDF}: 1155.3/16$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.317 ± 0.451 $\chi^2/\text{NDF}: 2460.5/17$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

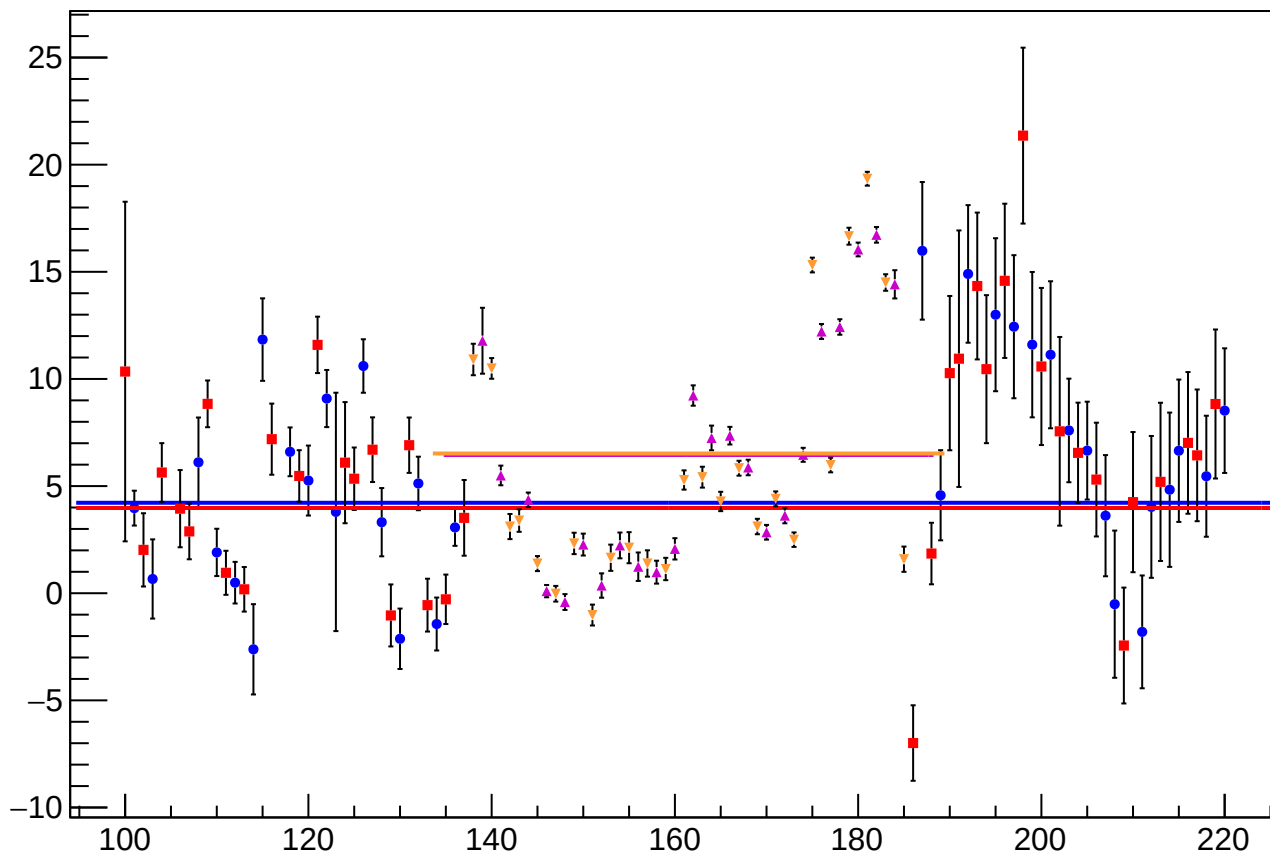
Right: -7.366 ± 0.321 $\chi^2/\text{NDF}: 3708.6/34$

In: -14.986 ± 0.104 $\chi^2/\text{NDF}: 9913.4/39$

Out: -14.840 ± 0.102 $\chi^2/\text{NDF}: 13543.4/42$

All: -14.912 ± 0.073 $\chi^2/\text{NDF}: 23457.8/82$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.221 ± 0.285 χ^2/NDF : 196.7/33

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.978 ± 0.286 χ^2/NDF : 232.9/36

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

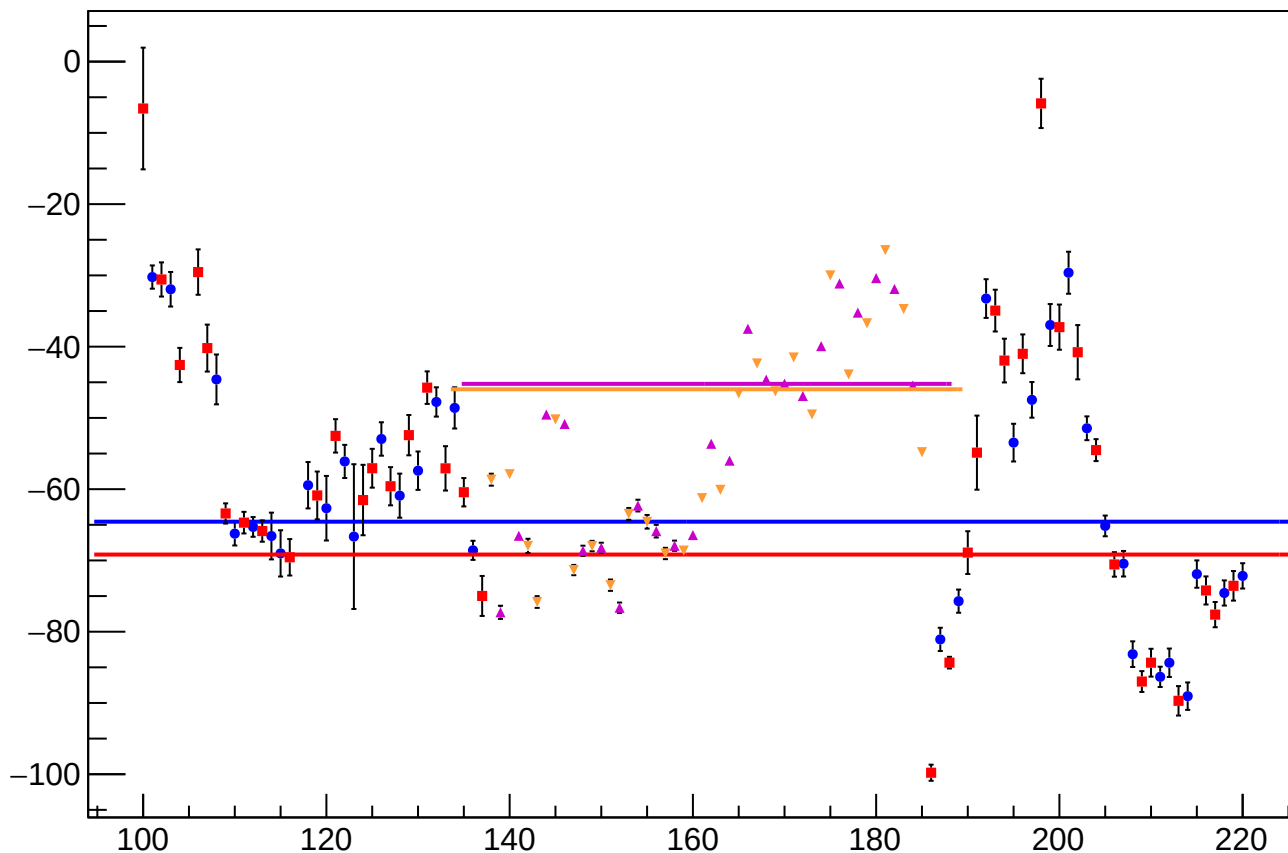
Right: 4.100 ± 0.202 χ^2/NDF : 429.9/70

In: 6.265 ± 0.082 χ^2/NDF : 4200.9/56

Out: 6.313 ± 0.082 χ^2/NDF : 5290.7/61

All: 6.289 ± 0.058 χ^2/NDF : 9491.8/118

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.562 ± 0.350 χ^2/NDF : 2128.7/33

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -69.174 ± 0.333 χ^2/NDF : 3298.7/36

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

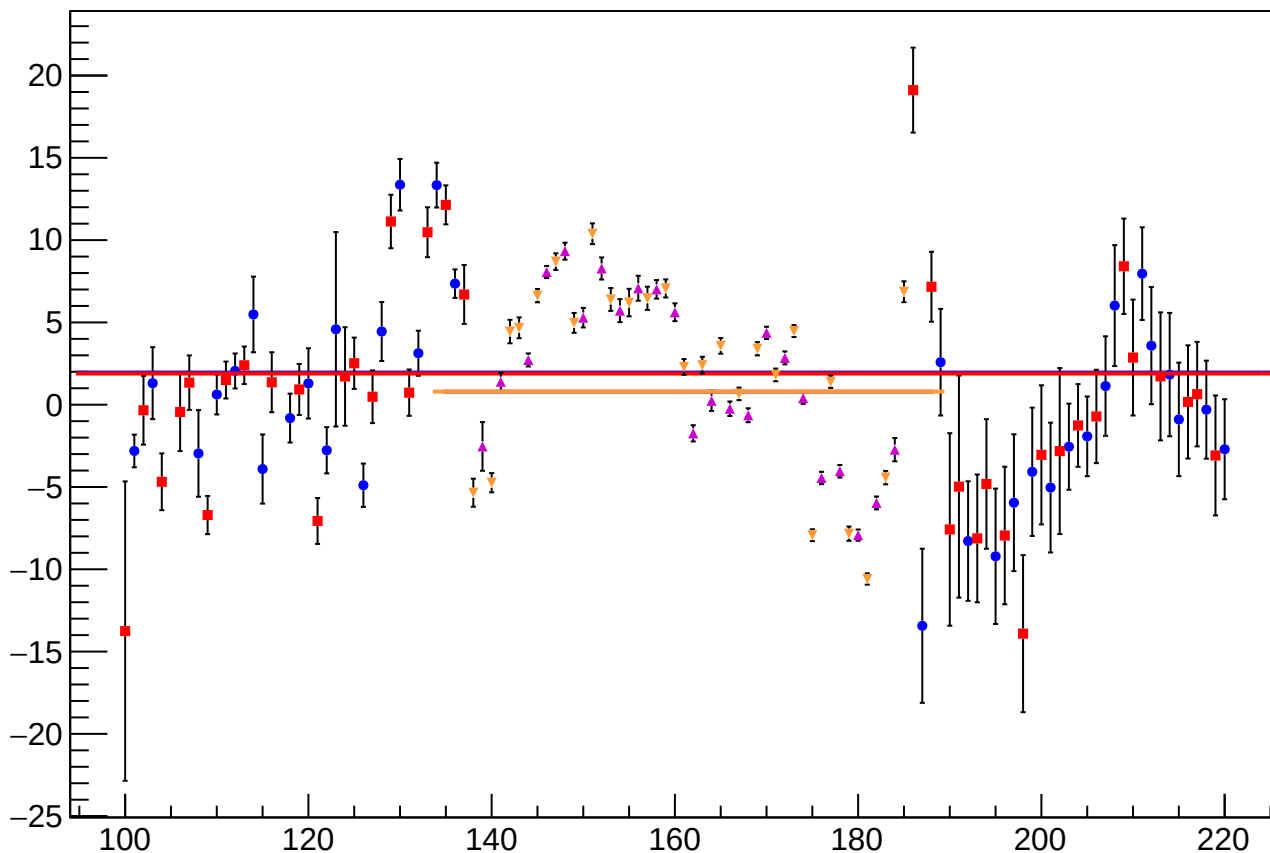
Right: -66.984 ± 0.241 χ^2/NDF : 5518.8/70

In: -46.882 ± 0.102 χ^2/NDF : 20523.7/56

Out: -48.130 ± 0.101 χ^2/NDF : 25070.7/61

All: -47.514 ± 0.072 χ^2/NDF : 45669.3/118

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.952 ± 0.319 χ^2/NDF : 295.3/33

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.896 ± 0.325 χ^2/NDF : 357.1/36

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

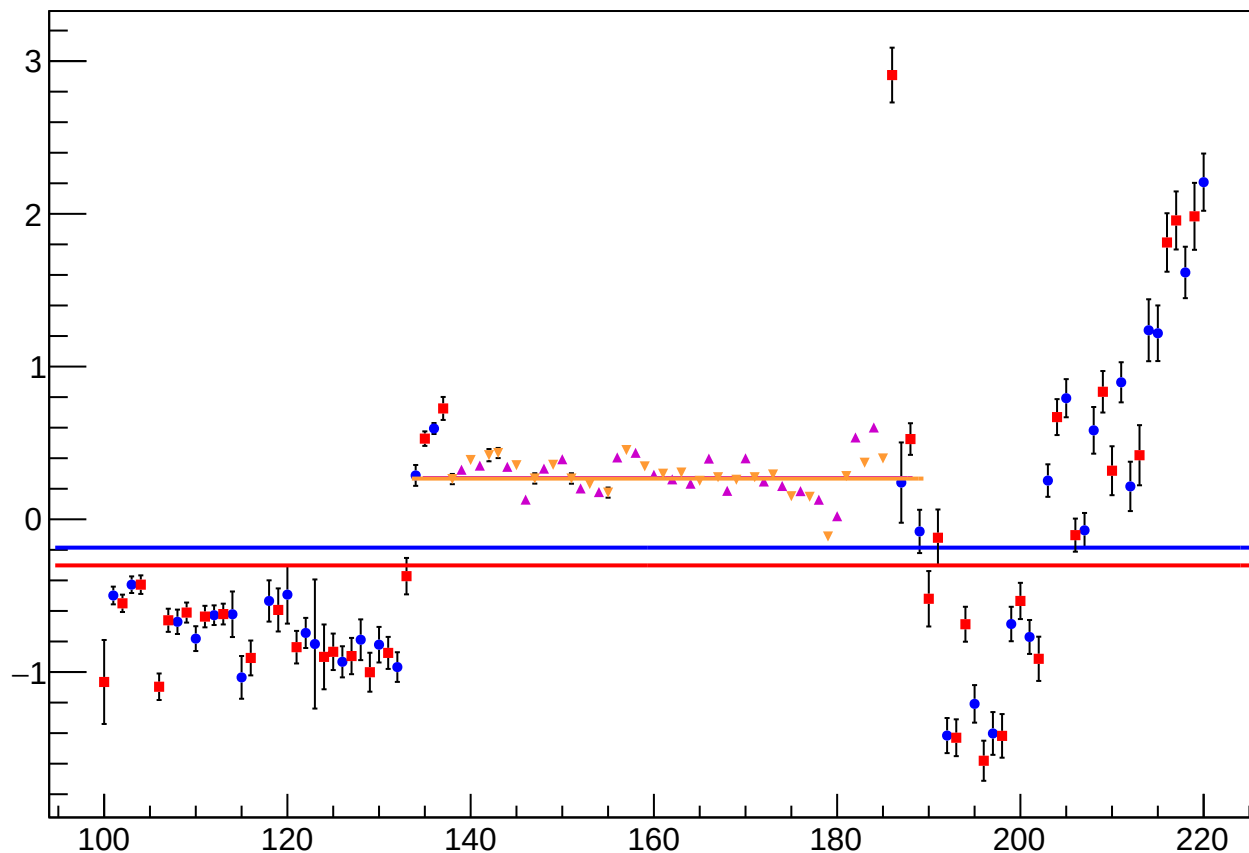
Right: 1.924 ± 0.228 χ^2/NDF : 652.4/70

In: 0.889 ± 0.092 χ^2/NDF : 2999.9/56

Out: 0.885 ± 0.092 χ^2/NDF : 4127.5/61

All: 0.887 ± 0.065 χ^2/NDF : 7127.4/118

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.185 ± 0.016 χ^2/NDF : 1838.3/33

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.302 ± 0.016 χ^2/NDF : 2072.5/36

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

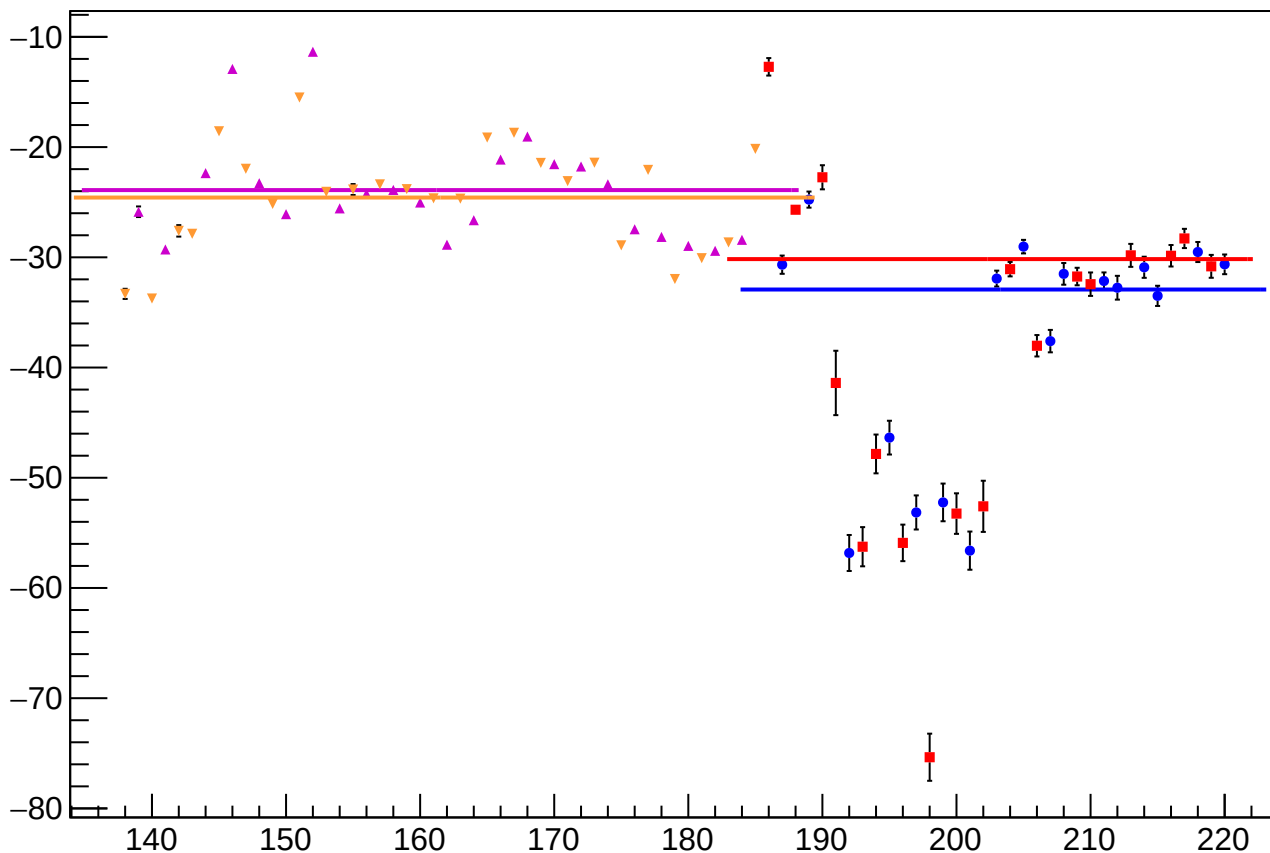
Right: -0.243 ± 0.012 χ^2/NDF : 3935.8/70

In: 0.240 ± 0.004 χ^2/NDF : 3524.3/56

Out: 0.229 ± 0.004 χ^2/NDF : 3882.6/61

All: 0.234 ± 0.003 χ^2/NDF : 7409.7/118

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.922±/0.229 χ^2/NDF : 1000.8/16

Left Out: -24.577±/0.051 χ^2/NDF :8590.4/24

Right Out: -30.162±/0.225 χ^2/NDF : 1988.6/17

Left In: -23.901±/0.051 χ^2/NDF :9154.9/22

Left: -24.240±/0.036 χ^2/NDF : 17833.1/47

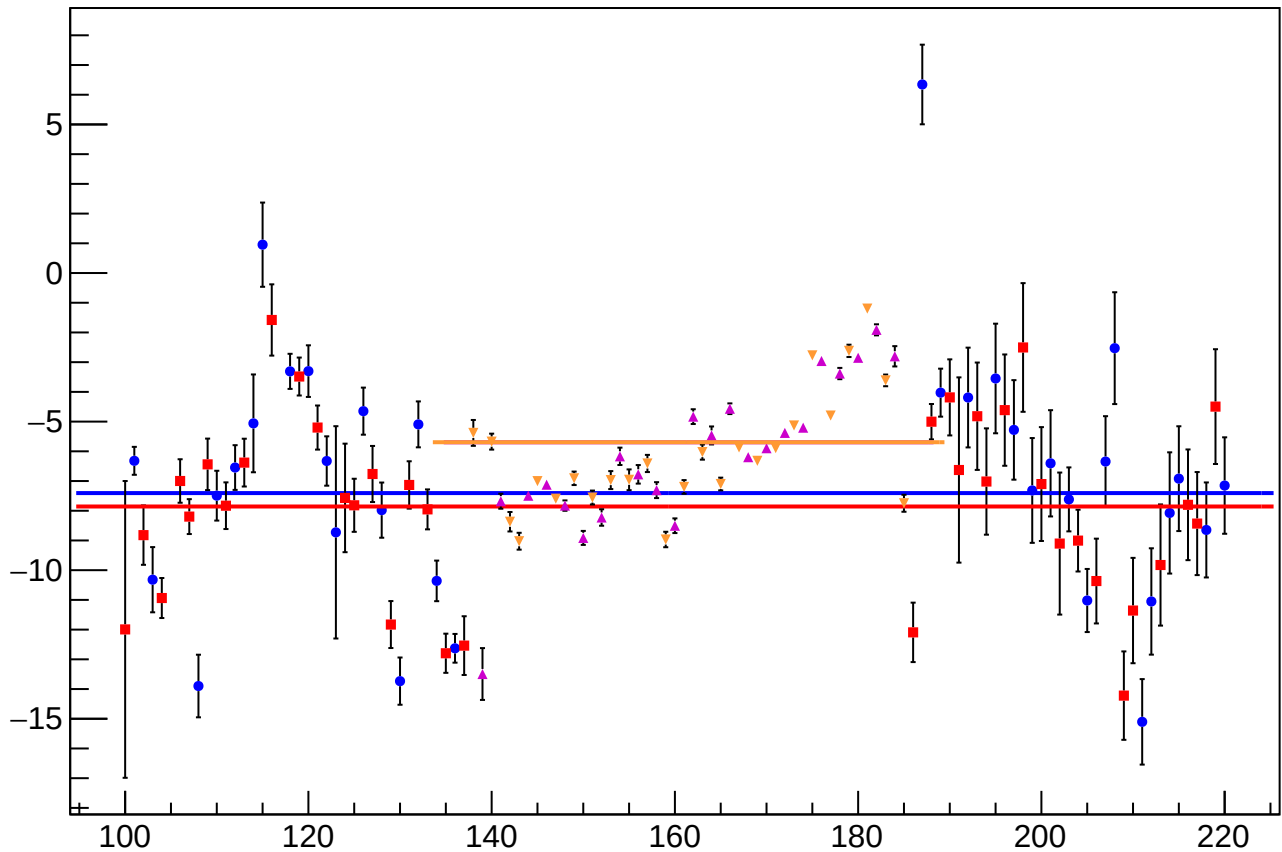
Right: -31.518±/0.161 χ^2/NDF : 3063.1/34

In: -24.329±/0.050 χ^2/NDF :11633.1/39

Out: -24.849±/0.050 χ^2/NDF :11163.9/42

All: -24.590±/0.035 χ^2/NDF : 22851.7/82

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.405 ± 0.165 χ^2/NDF : 566.4/33

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.857 ± 0.162 χ^2/NDF : 316.1/36

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

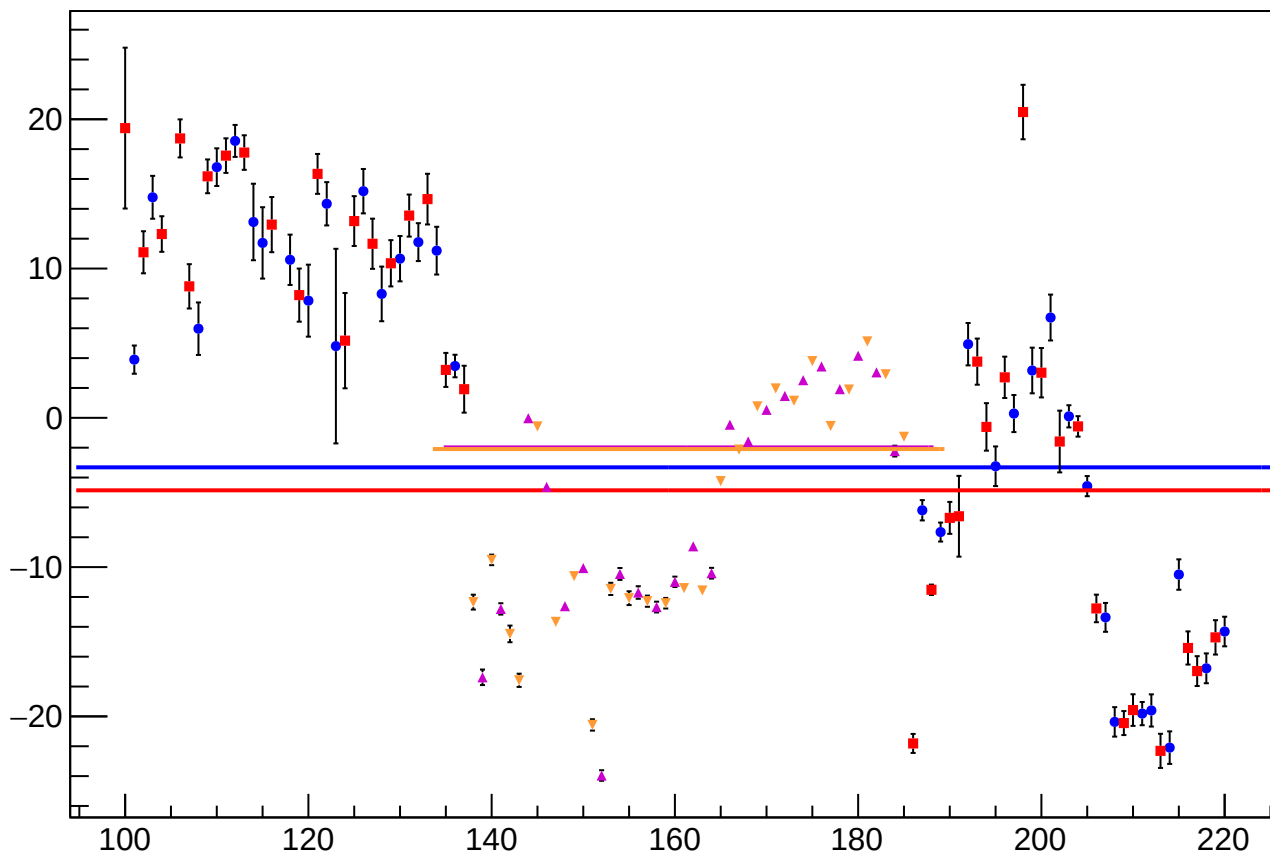
Right: -7.636 ± 0.115 χ^2/NDF : 886.3/70

In: -5.795 ± 0.040 χ^2/NDF : 2977.5/56

Out: -5.825 ± 0.040 χ^2/NDF : 2742.6/61

All: -5.810 ± 0.028 χ^2/NDF : 5720.4/118

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

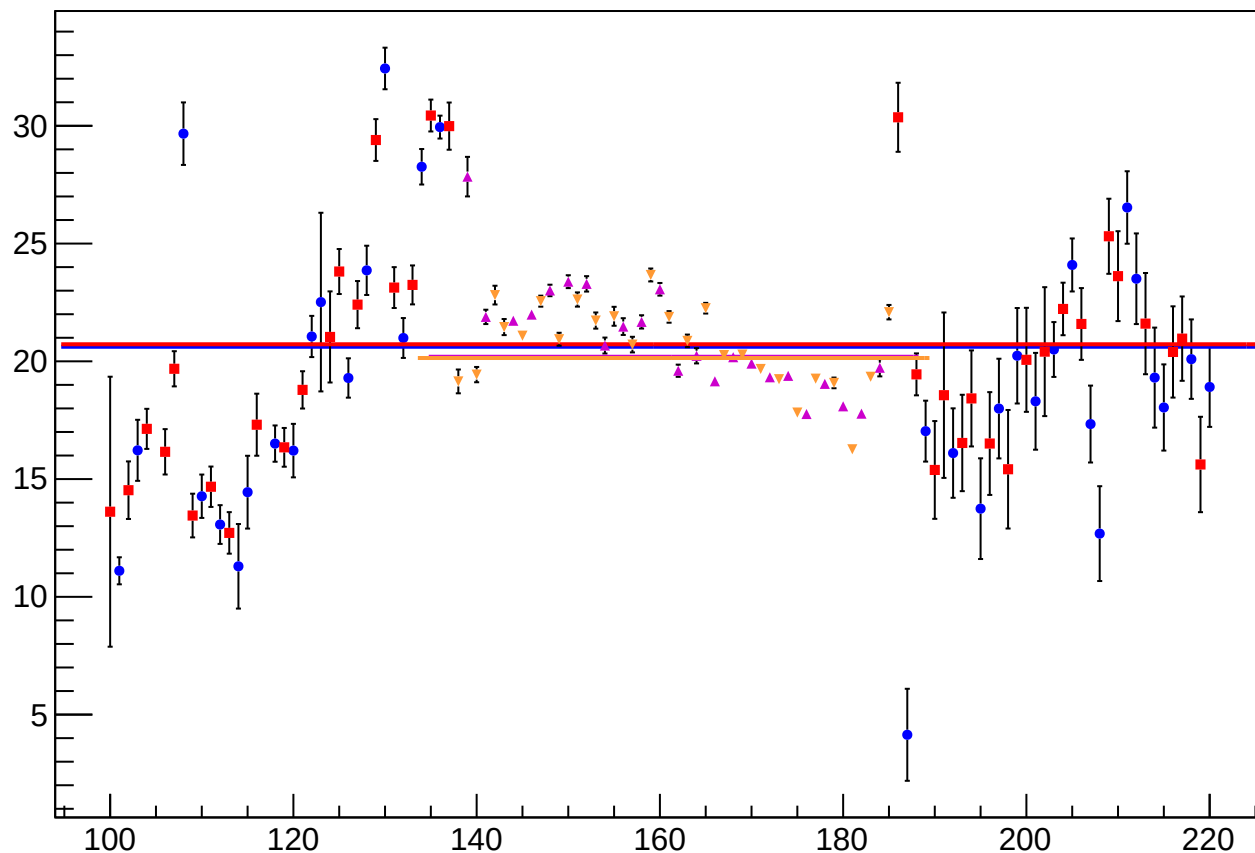


Right In: -3.316 ± 0.188 χ^2/NDF : 3745.5/33
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -4.857 ± 0.176 χ^2/NDF : 5566.8/36
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -4.135 ± 0.129 χ^2/NDF : 9348.0/70
 In: -2.073 ± 0.049 χ^2/NDF : 19174.9/56
 Out: -2.308 ± 0.049 χ^2/NDF : 22098.5/61

All: -2.191 ± 0.035 χ^2/NDF : 41284.8/118

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.619 $\pm$ 0.187 χ^2 /NDF: 1360.7/33

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.724 $\pm$ 0.188 χ^2 /NDF: 807.0/36

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF: 1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

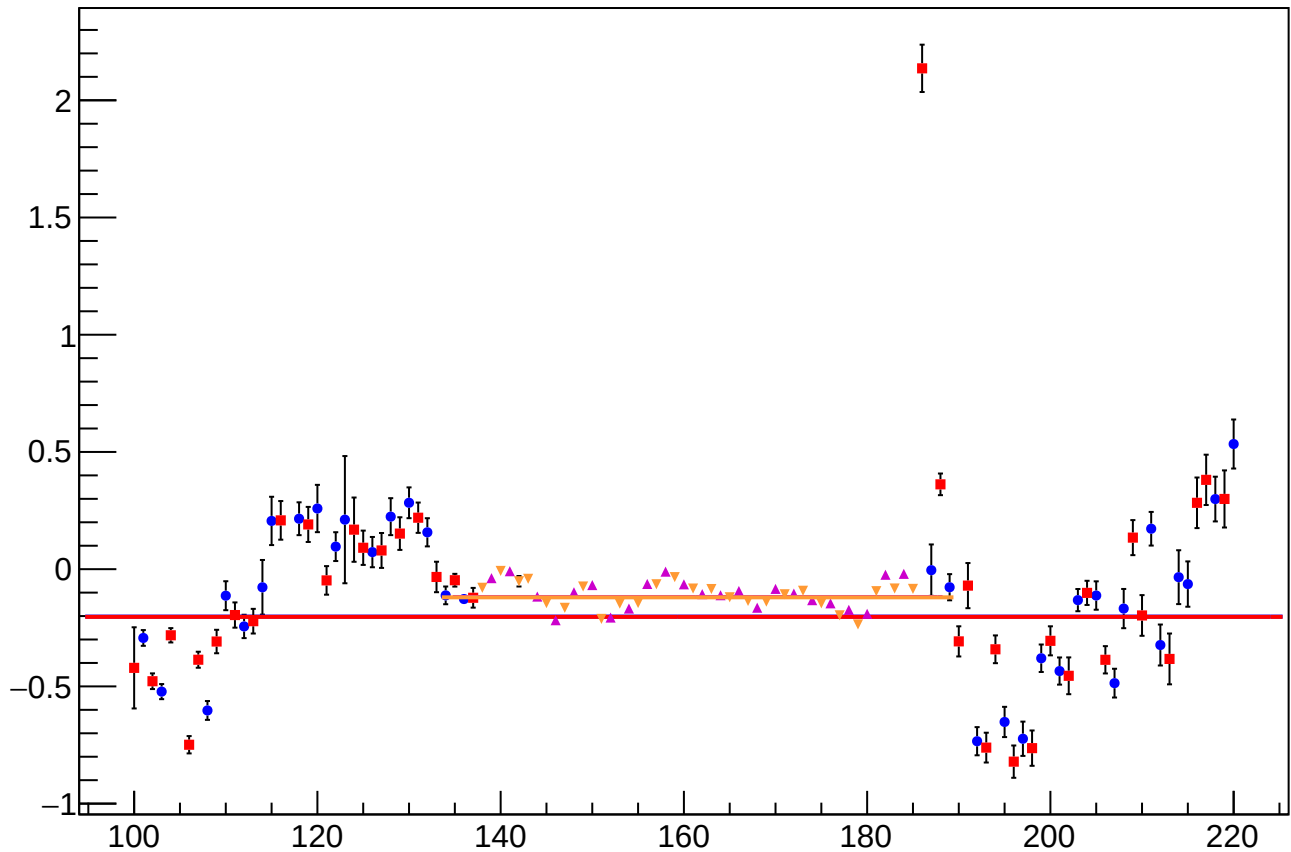
Right: 20.671 $\pm$ 0.133 χ^2 /NDF: 2167.9/70

In: 20.218 $\pm$ 0.045 χ^2 /NDF: 2812.9/56

Out: 20.174 $\pm$ 0.045 χ^2 /NDF: 2235.2/61

All: 20.196 $\pm$ 0.032 χ^2 /NDF: 5048.6/118

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.009 χ^2/NDF : 812.4/33

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.203 ± 0.009 χ^2/NDF : 1563.1/36

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

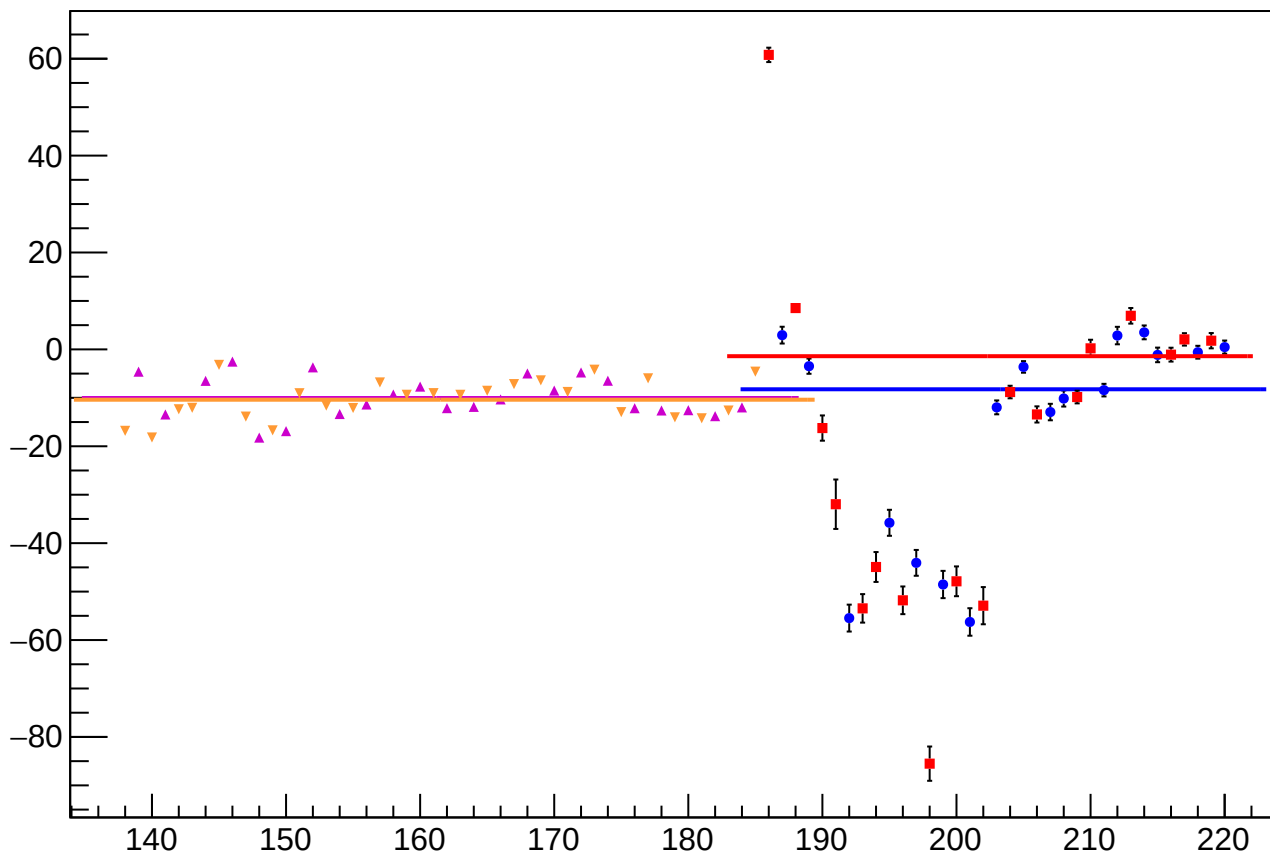
Right: -0.203 ± 0.007 χ^2/NDF : 2375.4/70

In: -0.123 ± 0.002 χ^2/NDF : 1610.4/56

Out: -0.124 ± 0.002 χ^2/NDF : 2171.9/61

All: -0.123 ± 0.001 χ^2/NDF : 3782.5/118

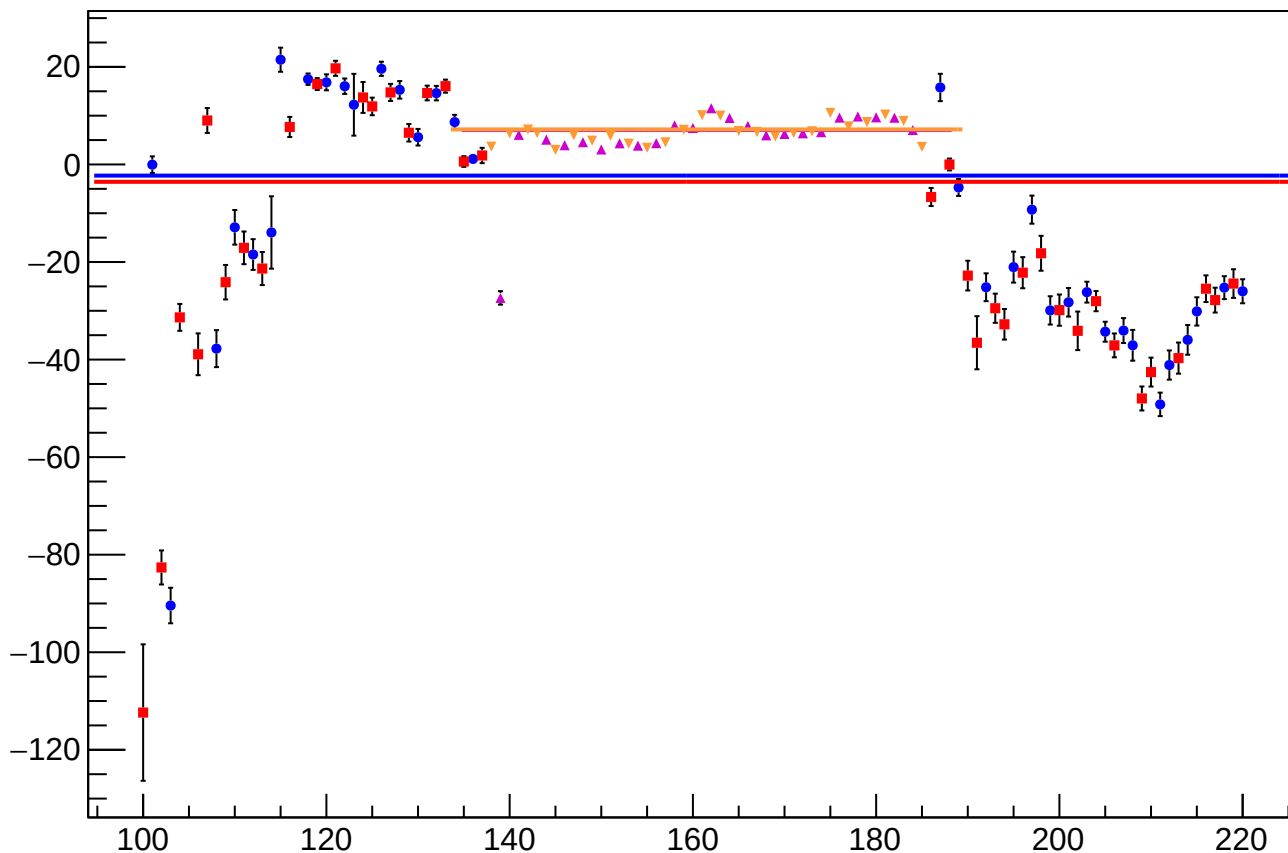
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.236 ± 0.400 χ^2/NDF : 1350.6/16
 Left Out: -10.391 ± 0.088 χ^2/NDF : 2111.6/24
 Right Out: -1.405 ± 0.398 χ^2/NDF : 3914.2/17
 Left In: -10.036 ± 0.090 χ^2/NDF : 1758.7/22

Left: -10.217 ± 0.063 χ^2/NDF : 3878.3/47
 Right: -4.797 ± 0.282 χ^2/NDF : 5411.4/34
 In: -9.950 ± 0.087 χ^2/NDF : 3128.5/39
 Out: -9.973 ± 0.086 χ^2/NDF : 6512.8/42
 All: -9.962 ± 0.061 χ^2/NDF : 9641.4/82

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.288 ± 0.340 χ^2/NDF : 3831.2/33

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -3.557 ± 0.351 χ^2/NDF : 3591.1/36

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

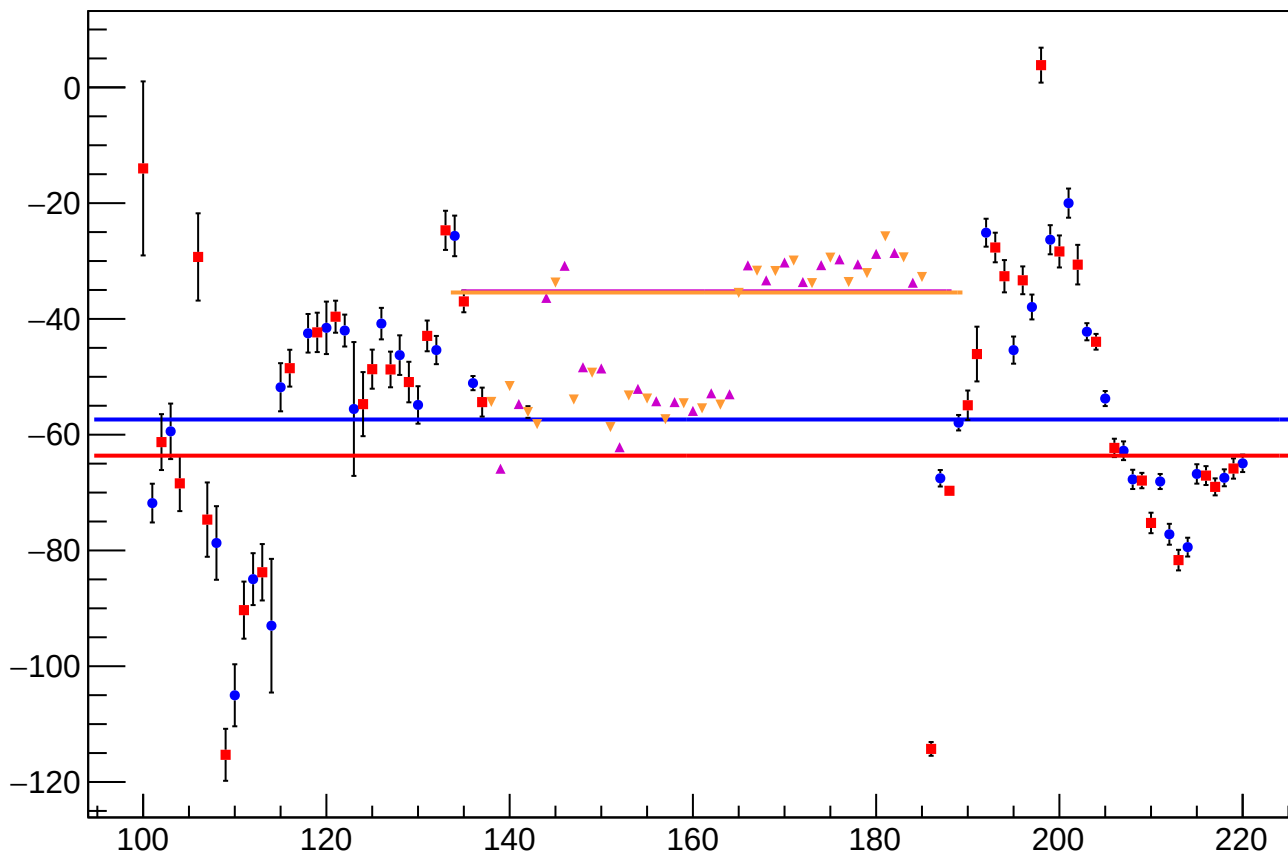
Right: -2.903 ± 0.244 χ^2/NDF : 7429.0/70

In: 6.629 ± 0.072 χ^2/NDF : 6086.6/56

Out: 6.732 ± 0.072 χ^2/NDF : 5407.0/61

All: 6.681 ± 0.051 χ^2/NDF : 11494.6/118

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.375 ± 0.352 χ^2/NDF : 1751.9/33

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -63.622 ± 0.340 χ^2/NDF : 4362.3/36

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

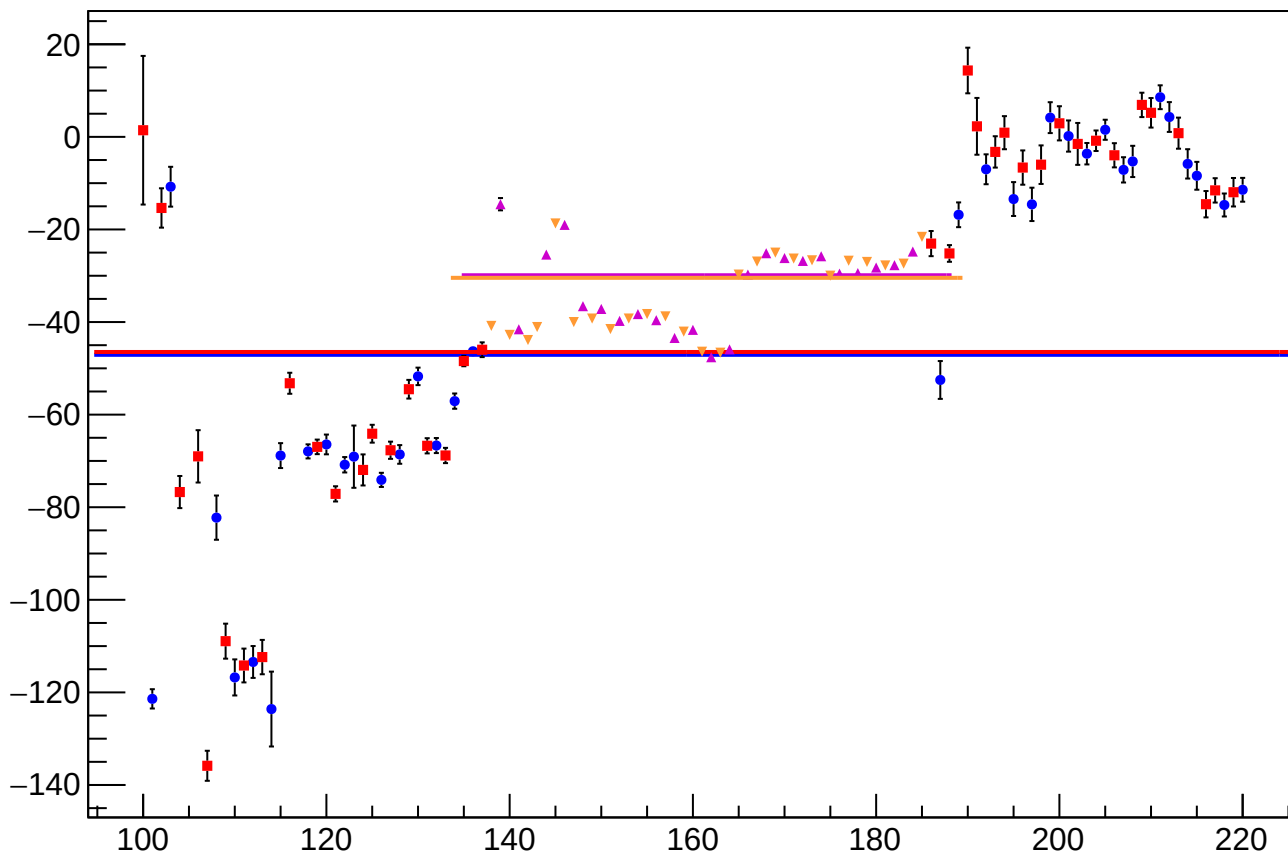
Right: -60.602 ± 0.244 χ^2/NDF : 6277.3/70

In: -36.594 ± 0.087 χ^2/NDF : 17078.1/56

Out: -37.241 ± 0.086 χ^2/NDF : 23573.0/61

All: -36.922 ± 0.061 χ^2/NDF : 40679.0/118

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -47.078 ± 0.379 $\chi^2/\text{NDF}: 6865.7/33$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -46.465 ± 0.400 $\chi^2/\text{NDF}: 6241.9/36$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

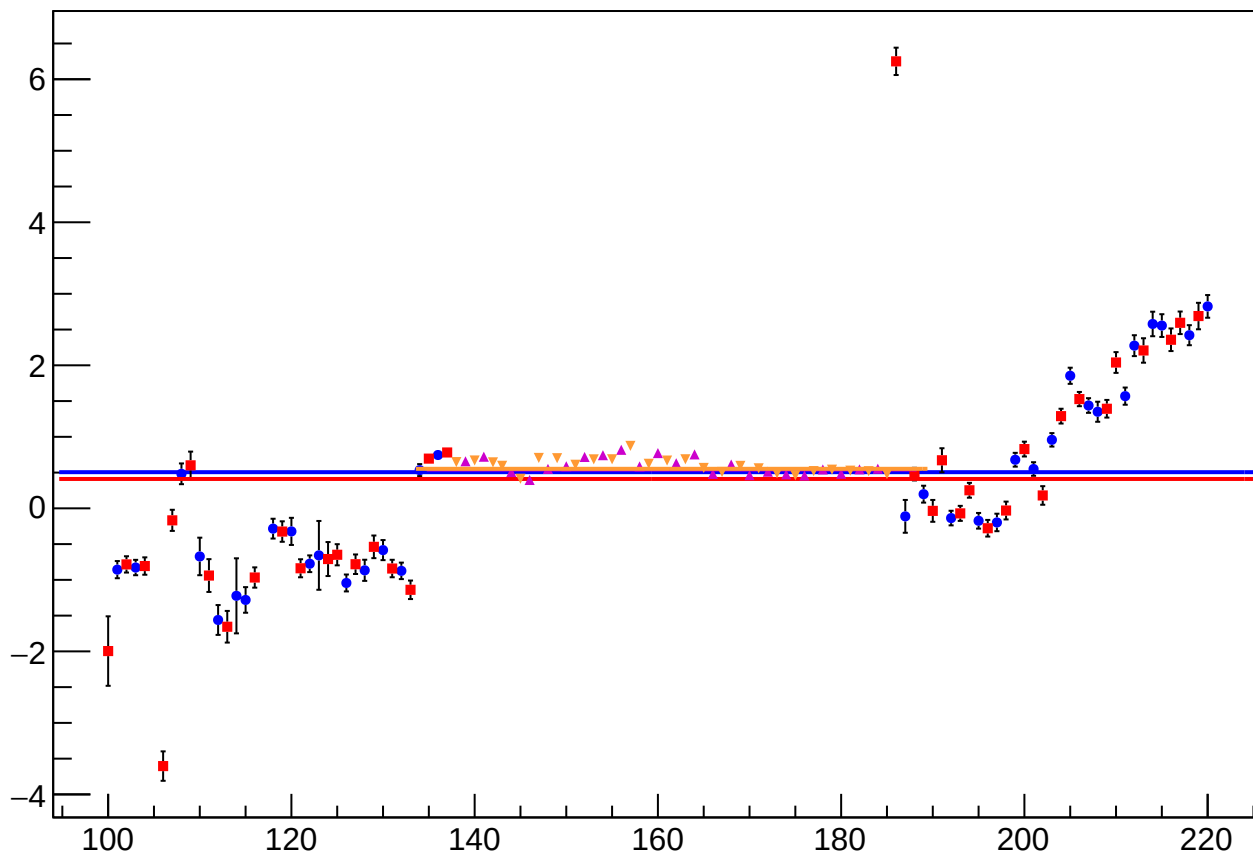
Right: -46.788 ± 0.275 $\chi^2/\text{NDF}: 13108.9/70$

In: -30.672 ± 0.081 $\chi^2/\text{NDF}: 15946.8/56$

Out: -31.087 ± 0.080 $\chi^2/\text{NDF}: 15950.6/61$

All: -30.882 ± 0.057 $\chi^2/\text{NDF}: 31910.8/118$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.506 $\pm$ 0.019 χ^2 /NDF: 2554.0/33

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.411 $\pm$ 0.020 χ^2 /NDF: 3504.3/36

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

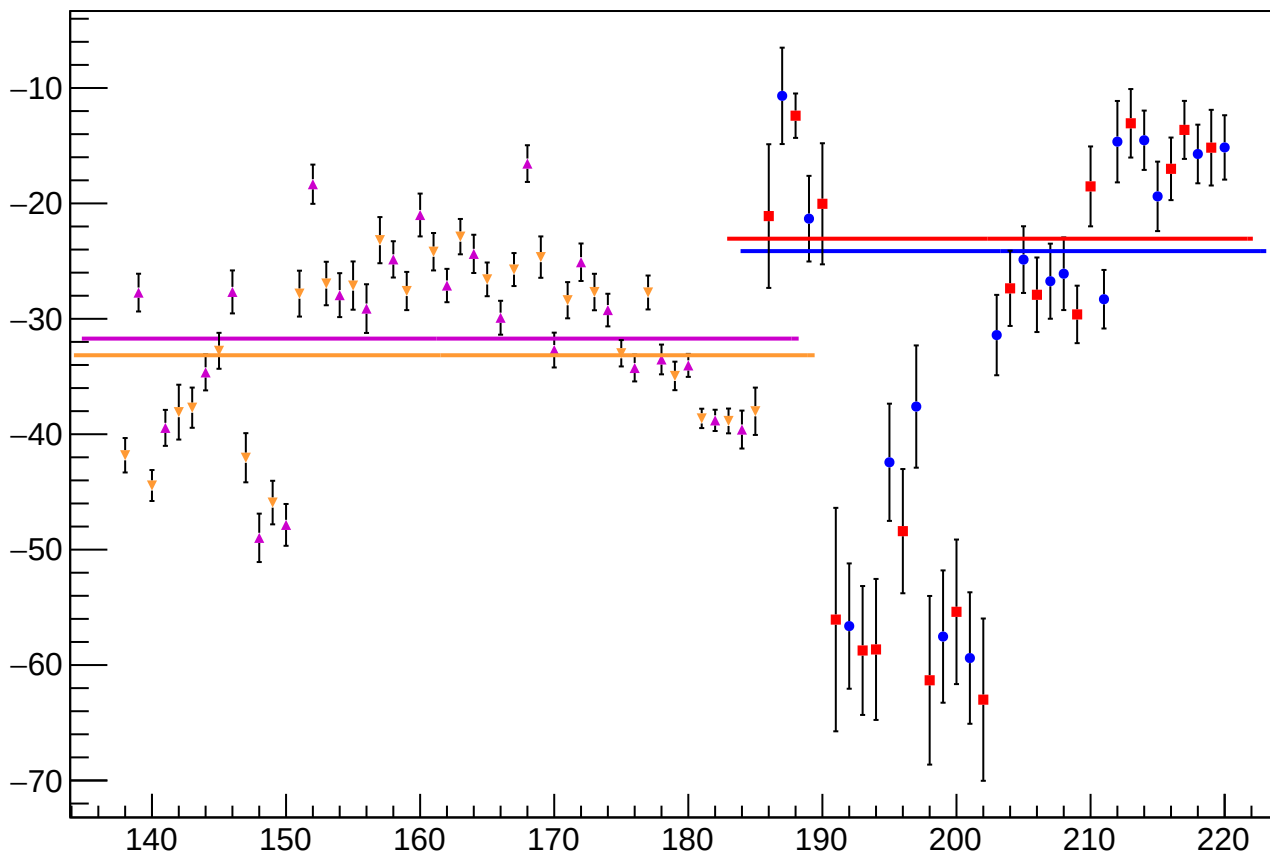
Right: 0.461 $\pm$ 0.013 χ^2 /NDF: 6070.7/70

In: 0.542 $\pm$ 0.004 χ^2 /NDF:3213.9/56

Out: 0.548 $\pm$ 0.004 χ^2 /NDF:4097.1/61

All: 0.545 $\pm$ 0.003 χ^2 /NDF: 7312.2/118

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

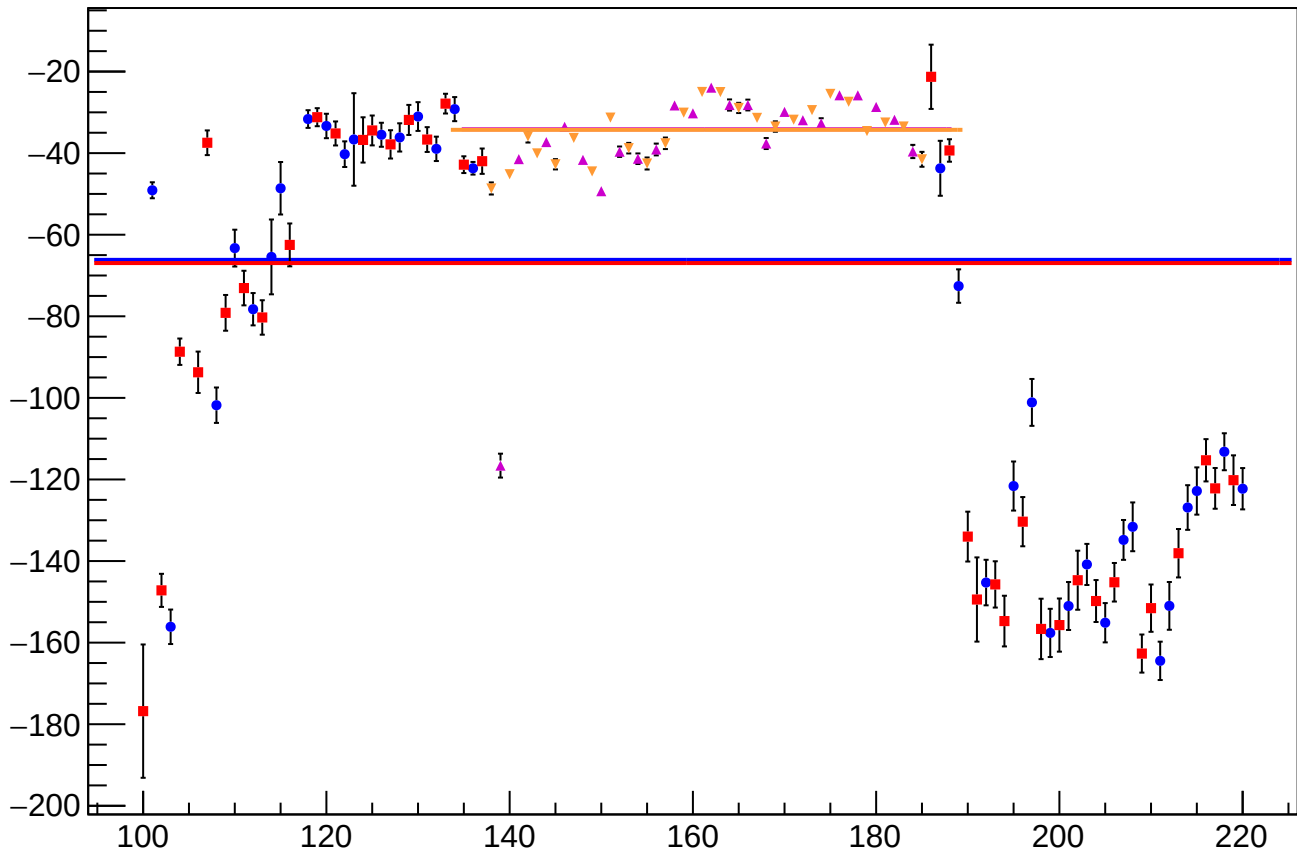


Right In: -24.134 ± 0.822 χ^2/NDF : 191.7/16
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -23.058 ± 0.834 χ^2/NDF : 274.9/17
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -23.604 ± 0.586 χ^2/NDF : 467.4/34
 In: -30.777 ± 0.289 χ^2/NDF : 808.4/39
 Out: -31.999 ± 0.282 χ^2/NDF : 904.7/42

All: -31.403 ± 0.202 χ^2/NDF : 1722.2/82

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -66.164 ± 0.635 $\chi^2/\text{NDF}: 4552.6/33$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -66.950 ± 0.655 $\chi^2/\text{NDF}: 4699.5/36$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

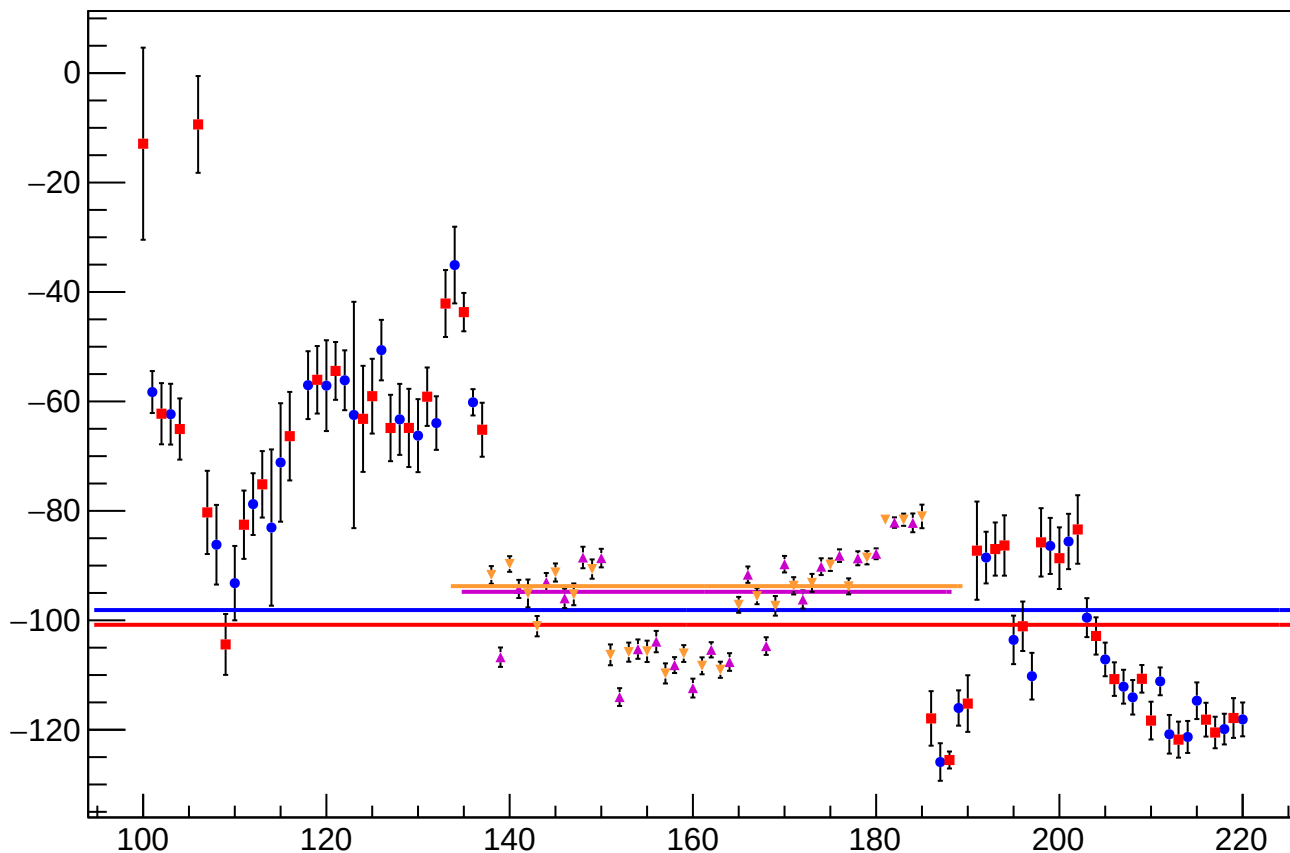
Right: -66.545 ± 0.456 $\chi^2/\text{NDF}: 9252.9/70$

In: -38.467 ± 0.233 $\chi^2/\text{NDF}: 8205.2/56$

Out: -38.196 ± 0.227 $\chi^2/\text{NDF}: 7584.5/61$

All: -38.328 ± 0.163 $\chi^2/\text{NDF}: 15790.4/118$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -98.127 +/- 0.699 χ^2/NDF : 1239.9/33

Left Out: -93.754 +/- 0.302 χ^2/NDF : 883.1/24

Right Out: -100.823 +/- 0.696 χ^2/NDF : 1488.0/36

Left In: -94.796 +/- 0.308 χ^2/NDF : 974.7/22

Left: -94.264 +/- 0.216 χ^2/NDF : 1863.6/47

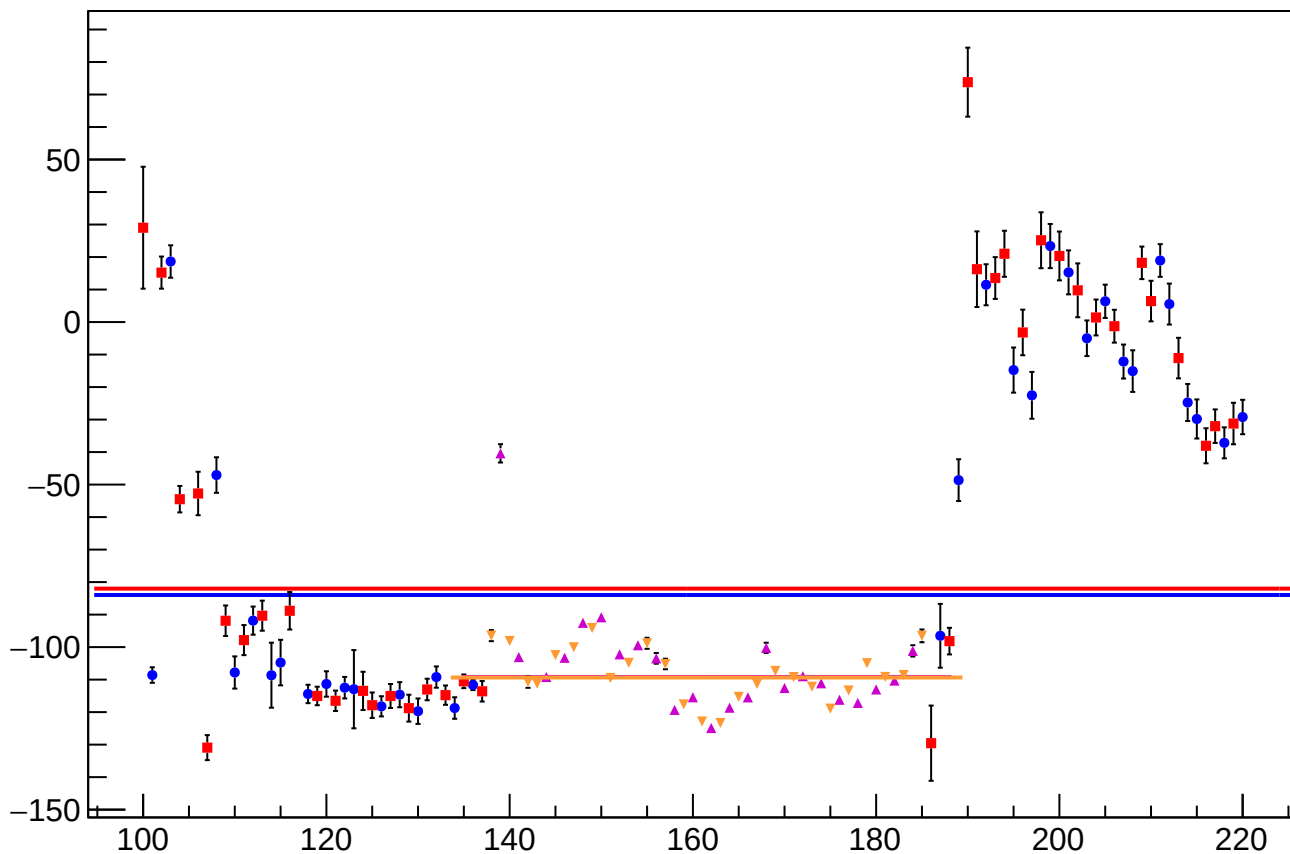
Right: -99.480 +/- 0.493 χ^2/NDF : 2735.3/70

In: -95.339 +/- 0.282 χ^2/NDF : 2233.6/56

Out: -94.871 +/- 0.277 χ^2/NDF : 2457.8/61

All: -95.101 +/- 0.198 χ^2/NDF : 4692.8/118

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -83.965 ± 0.712 $\chi^2/\text{NDF}: 4349.7/33$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -82.009 ± 0.746 $\chi^2/\text{NDF}: 4469.9/36$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

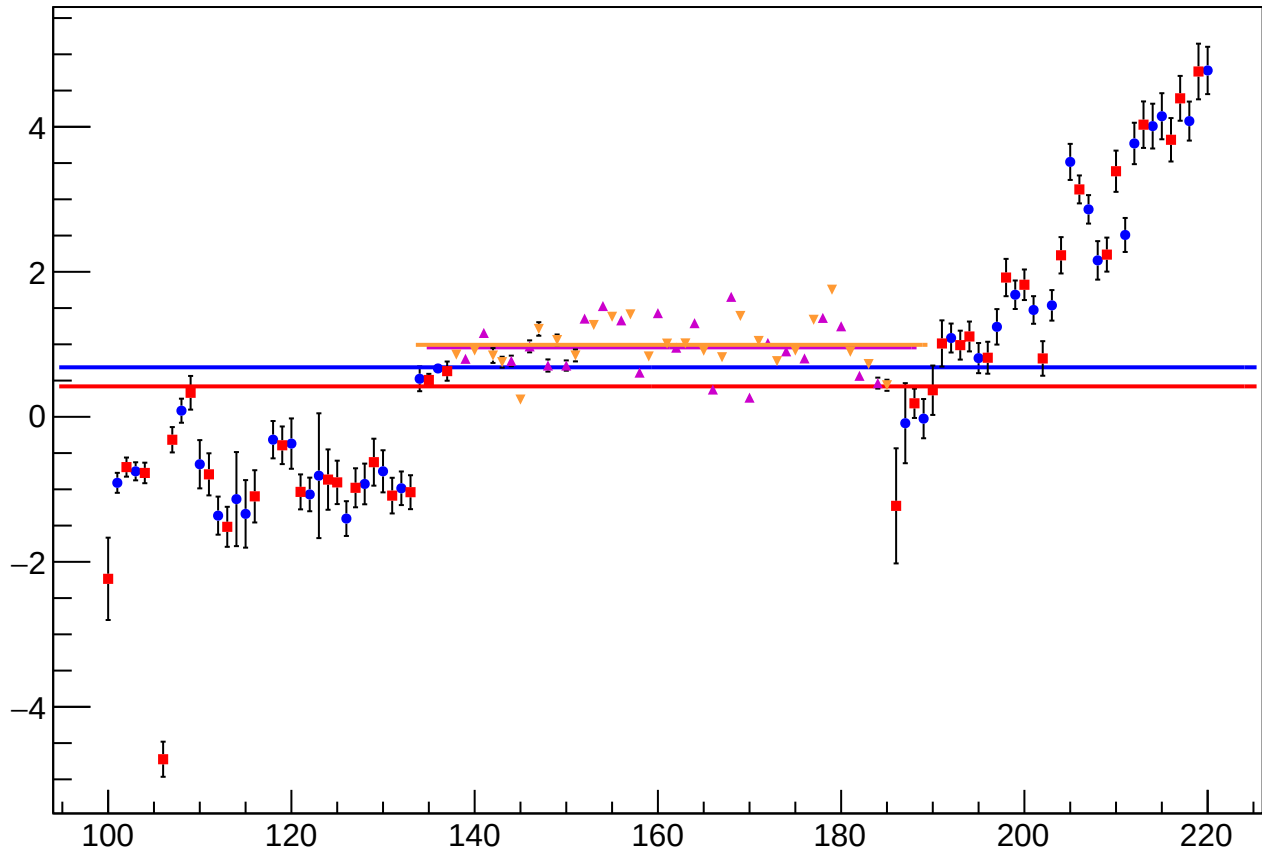
Right: -83.032 ± 0.515 $\chi^2/\text{NDF}: 8823.2/70$

In: -105.809 ± 0.260 $\chi^2/\text{NDF}: 6937.4/56$

Out: -106.158 ± 0.255 $\chi^2/\text{NDF}: 6483.6/61$

All: -105.987 ± 0.182 $\chi^2/\text{NDF}: 13421.9/118$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.683 $\pm$ 0.034 χ^2 /NDF: 1743.8/33

Left Out: 0.993 $\pm$ 0.012 χ^2 /NDF:638.6/24

Right Out: 0.420 $\pm$ 0.035 χ^2 /NDF: 1991.0/36

Left In: 0.958 $\pm$ 0.013 χ^2 /NDF:894.5/22

Left: 0.976 $\pm$ 0.009 χ^2 /NDF: 1537.0/47

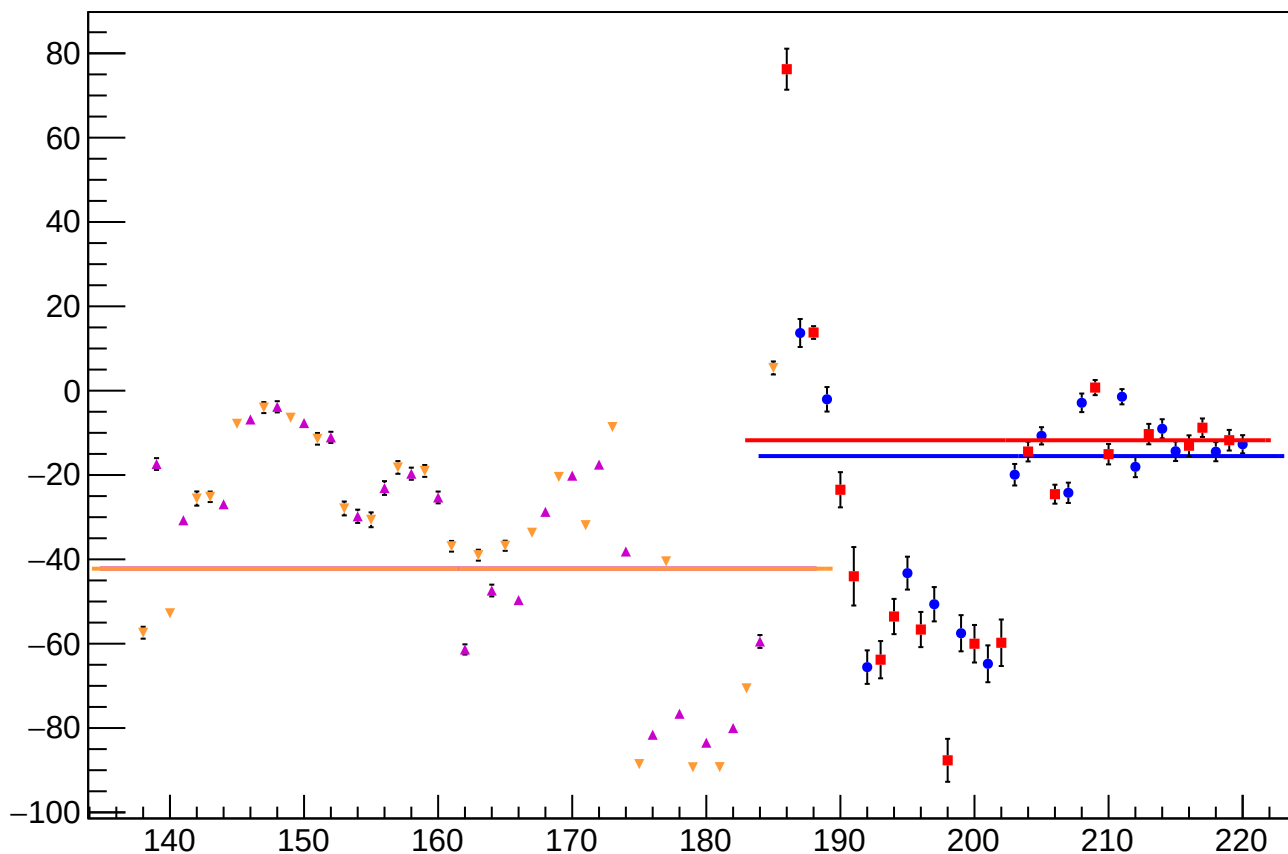
Right: 0.556 $\pm$ 0.025 χ^2 /NDF: 3763.2/70

In: 0.925 $\pm$ 0.012 χ^2 /NDF:2694.6/56

Out: 0.930 $\pm$ 0.012 χ^2 /NDF:2862.5/61

All: 0.928 $\pm$ 0.008 χ^2 /NDF: 5557.2/118

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

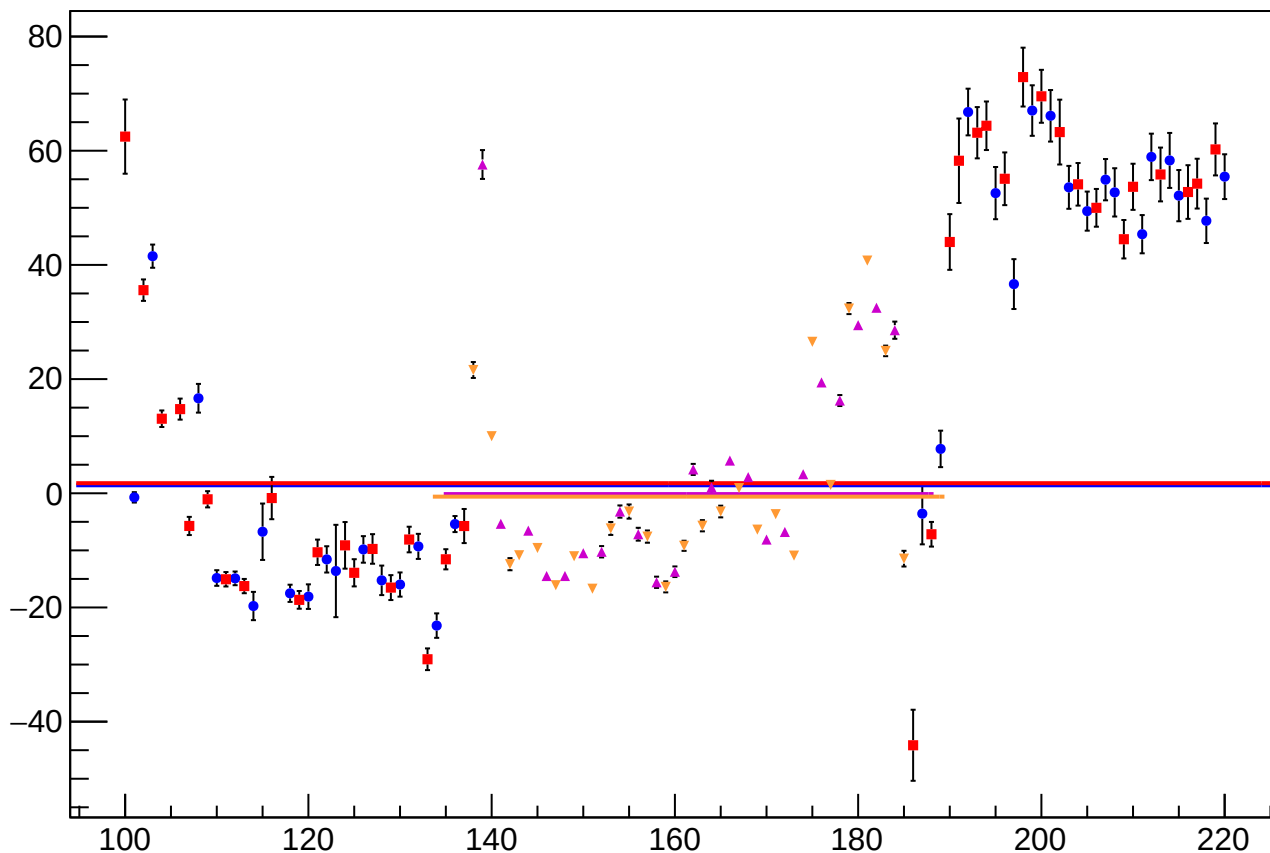
Right: -13.680 ± 0.449 $\chi^2/\text{NDF}: 2248.2/34$

In: -39.094 ± 0.214 $\chi^2/\text{NDF}: 16900.9/39$

Out: -38.970 ± 0.210 $\chi^2/\text{NDF}: 21812.3/42$

All: -39.031 ± 0.150 $\chi^2/\text{NDF}: 38713.3/82$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.402 ± 0.394 $\chi^2/\text{NDF}: 4023.3/33$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 1.768 ± 0.392 $\chi^2/\text{NDF}: 4180.4/36$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

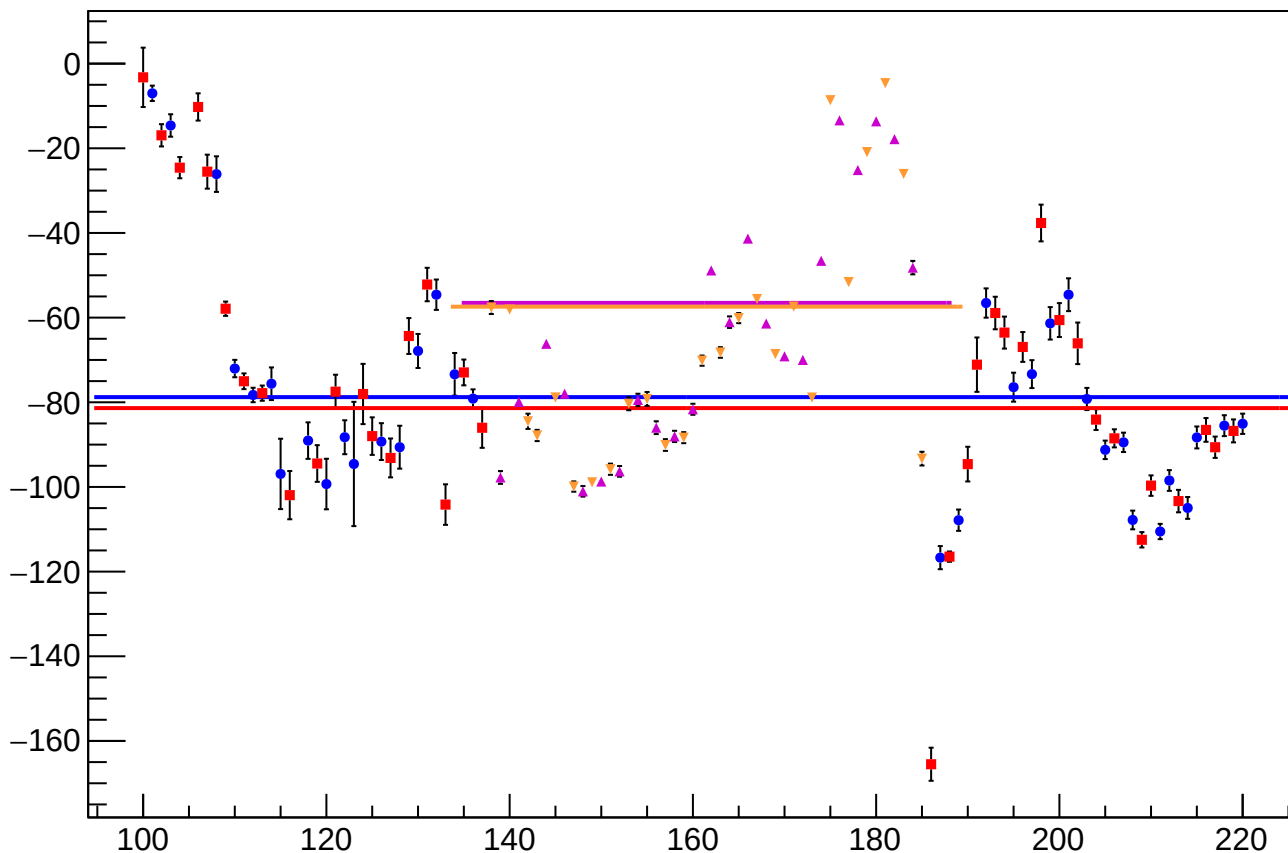
Right: 1.586 ± 0.278 $\chi^2/\text{NDF}: 8204.1/70$

In: 0.123 ± 0.163 $\chi^2/\text{NDF}: 10898.5/56$

Out: -0.201 ± 0.159 $\chi^2/\text{NDF}: 12961.5/61$

All: -0.043 ± 0.114 $\chi^2/\text{NDF}: 23862.0/118$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -78.781 ± 0.480 χ^2/NDF : 3569.7/33

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -81.374 ± 0.465 χ^2/NDF : 4231.9/36

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

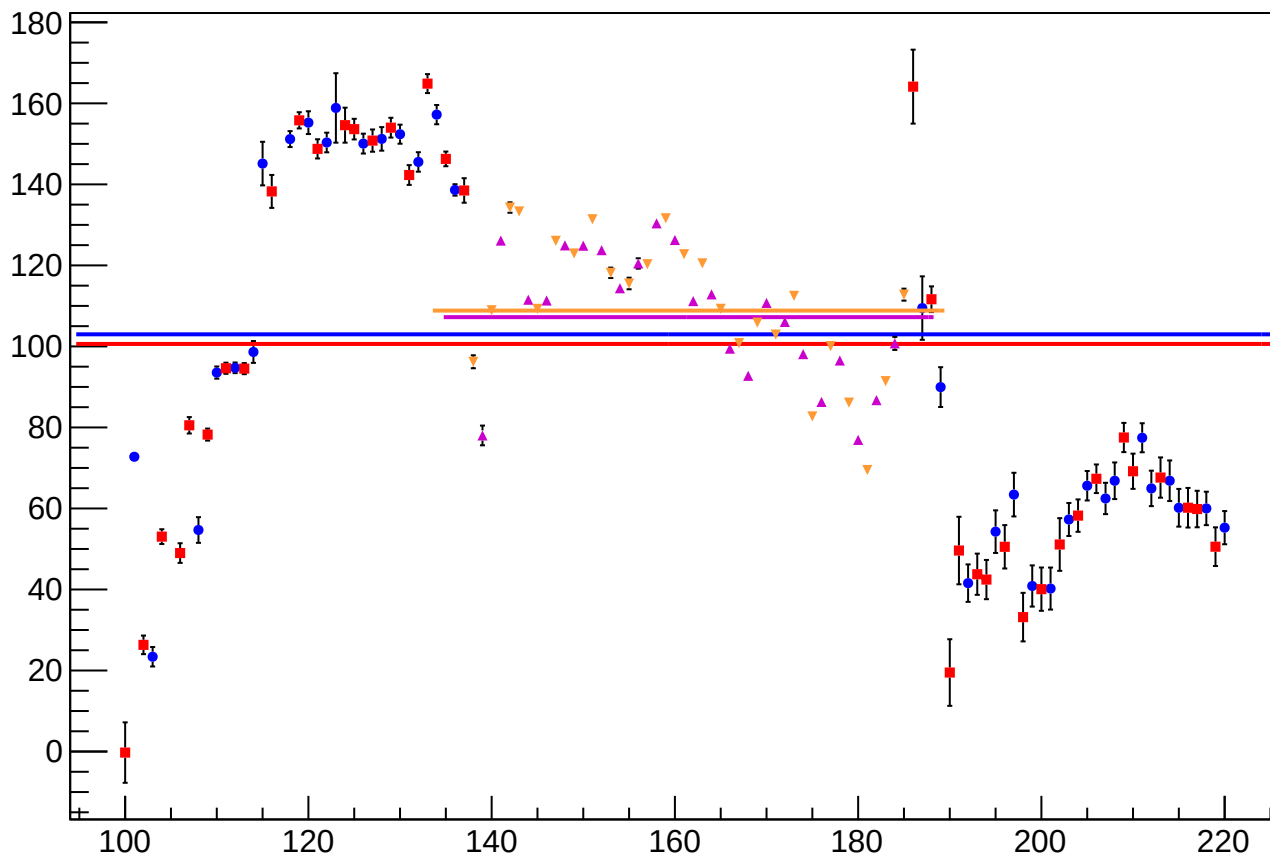
Right: -80.120 ± 0.334 χ^2/NDF : 7816.6/70

In: -60.588 ± 0.205 χ^2/NDF : 21679.4/56

Out: -61.906 ± 0.201 χ^2/NDF : 24996.7/61

All: -61.260 ± 0.144 χ^2/NDF : 46697.1/118

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 102.985 $\pm$ 0.447 χ^2 /NDF: 7672.0/33

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF:7400.2/24

Right Out: 100.611 $\pm$ 0.448 χ^2 /NDF: 8688.2/36

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF:5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

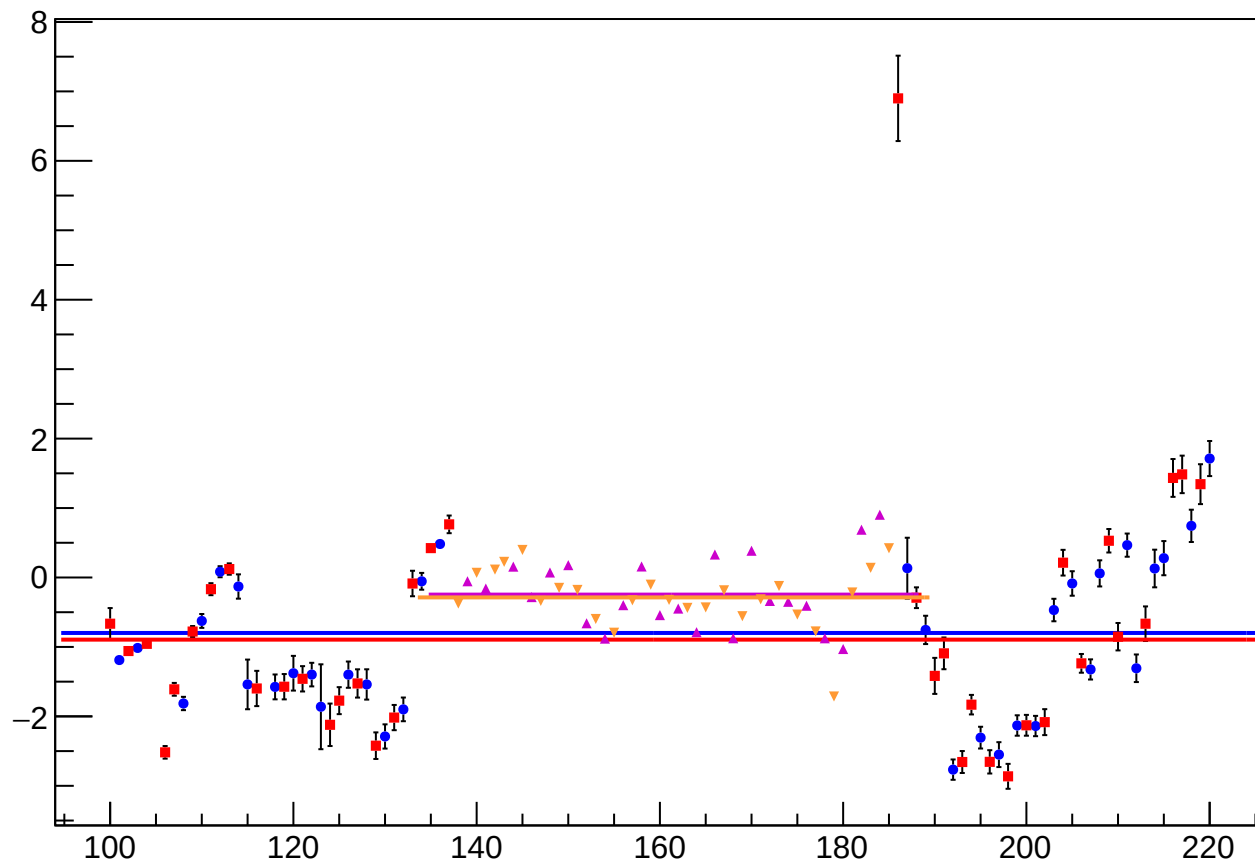
Right: 101.800 $\pm$ 0.316 χ^2 /NDF: 16374.3/70

In: 106.504 $\pm$ 0.184 χ^2 /NDF:13312.0/56

Out: 107.508 $\pm$ 0.181 χ^2 /NDF:16371.6/61

All: 107.016 $\pm$ 0.129 χ^2 /NDF: 29698.7/118

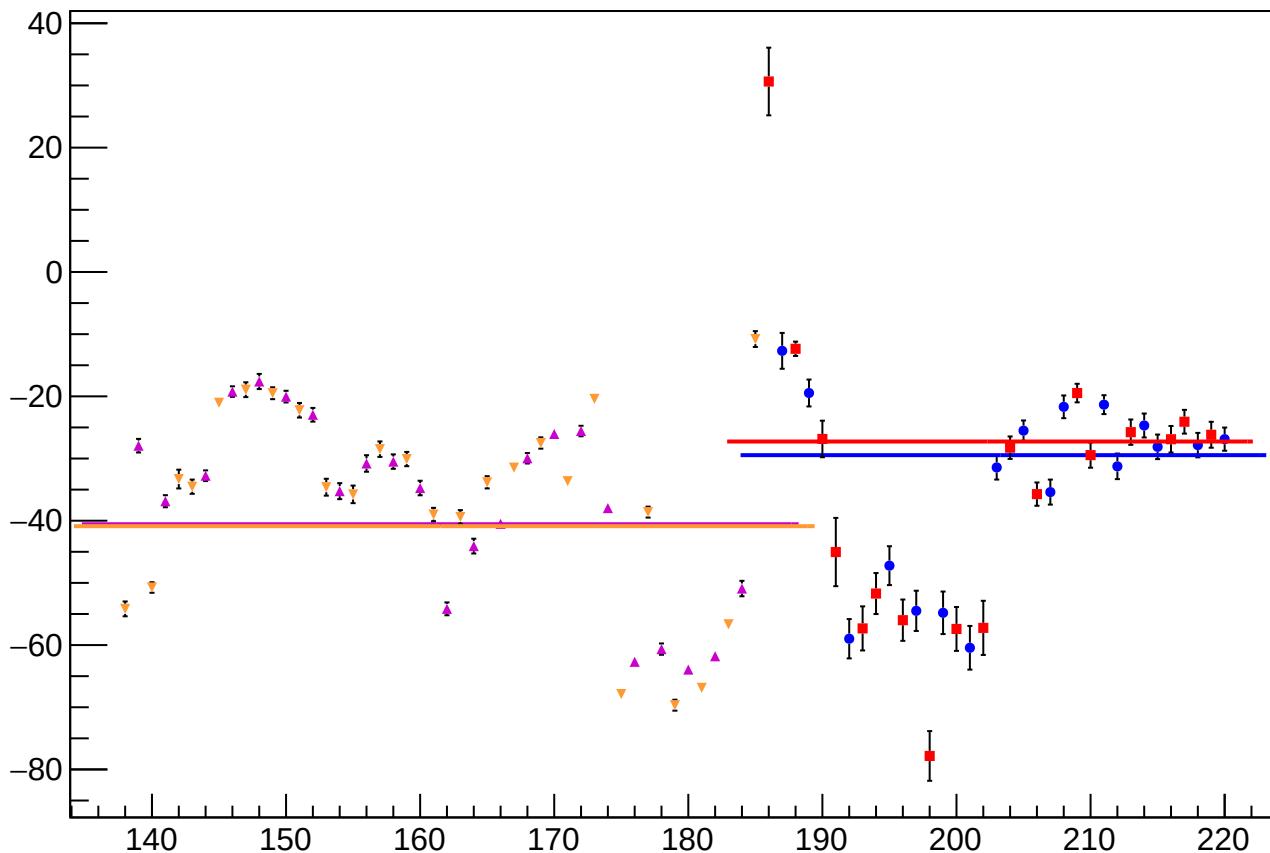
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.799 ± 0.022 $\chi^2/\text{NDF}: 1837.9/33$
 Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$
 Right Out: -0.895 ± 0.021 $\chi^2/\text{NDF}: 2327.4/36$
 Left In: -0.247 ± 0.009 $\chi^2/\text{NDF}: 2792.8/22$

Left: -0.267 ± 0.006 $\chi^2/\text{NDF}: 4855.3/47$
 Right: -0.849 ± 0.015 $\chi^2/\text{NDF}: 4175.1/70$
 In: -0.328 ± 0.009 $\chi^2/\text{NDF}: 5153.3/56$
 Out: -0.380 ± 0.008 $\chi^2/\text{NDF}: 5067.4/61$
 All: -0.354 ± 0.006 $\chi^2/\text{NDF}: 10239.8/118$

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected

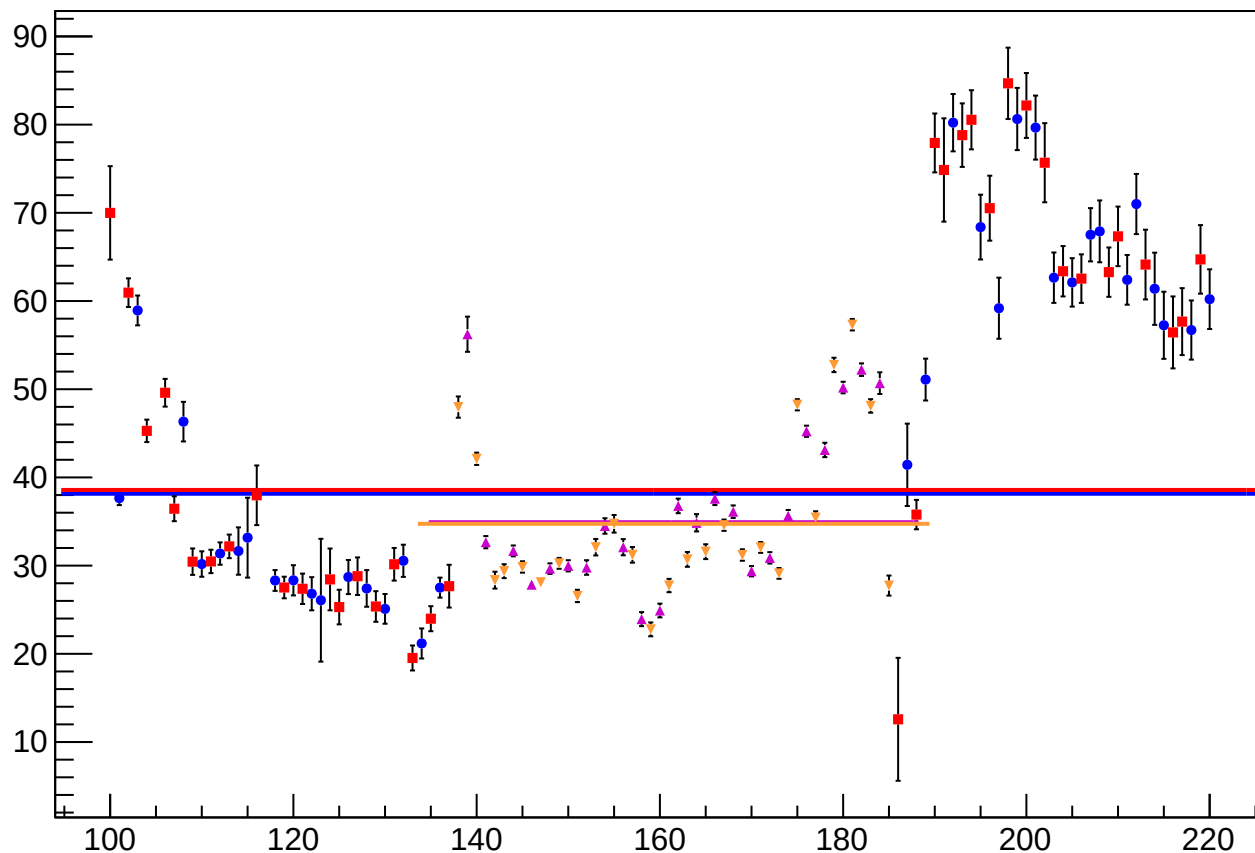


Right In: -29.457 ± 0.518 $\chi^2/\text{NDF}: 439.5/16$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -27.263 ± 0.524 $\chi^2/\text{NDF}: 825.2/17$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -28.372 ± 0.369 $\chi^2/\text{NDF}: 1273.5/34$
 In: -39.252 ± 0.178 $\chi^2/\text{NDF}: 7799.4/39$
 Out: -39.355 ± 0.175 $\chi^2/\text{NDF}: 10547.6/42$

All: -39.304 ± 0.125 $\chi^2/\text{NDF}: 18347.1/82$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.149 $\pm$ 0.340 χ^2 /NDF: 1879.9/33

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF: 3693.2/24

Right Out: 38.580 $\pm$ 0.341 χ^2 /NDF: 2301.2/36

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF: 2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

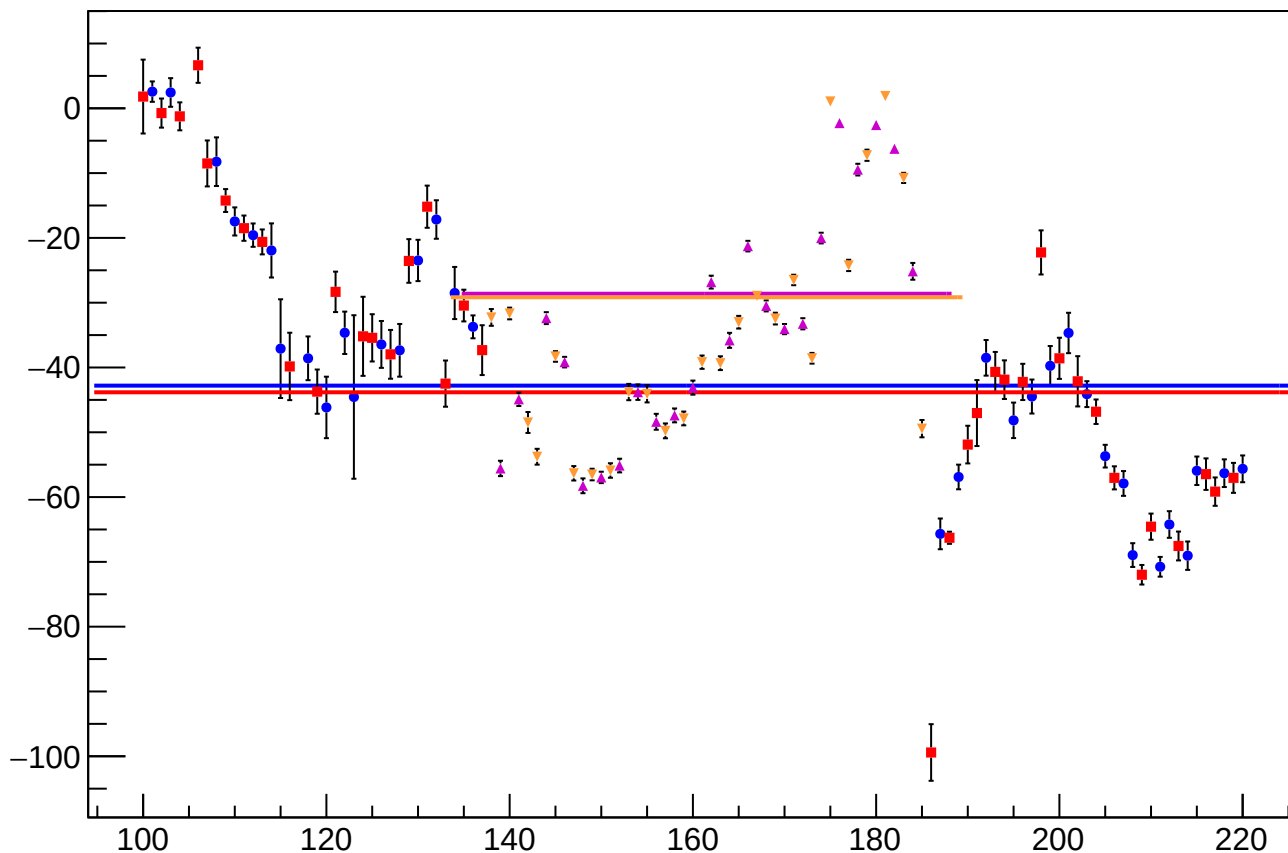
Right: 38.364 $\pm$ 0.241 χ^2 /NDF: 4181.9/70

In: 35.458 $\pm$ 0.138 χ^2 /NDF: 4628.0/56

Out: 35.346 $\pm$ 0.135 χ^2 /NDF: 6101.2/61

All: 35.401 $\pm$ 0.097 χ^2 /NDF: 10729.6/118

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.800 ± 0.408 χ^2/NDF : 2997.3/33

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -43.827 ± 0.395 χ^2/NDF : 3568.6/36

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

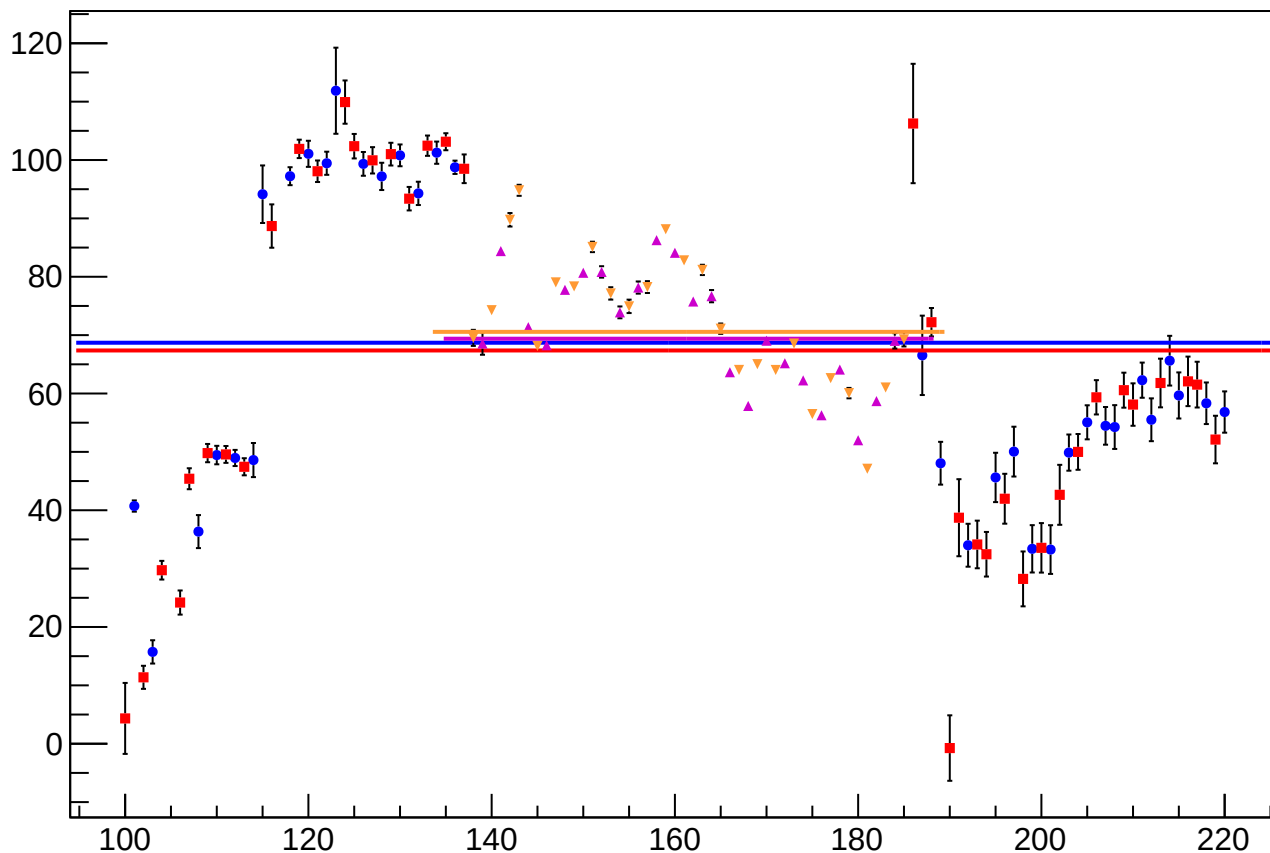
Right: -43.330 ± 0.284 χ^2/NDF : 6569.1/70

In: -31.136 ± 0.172 χ^2/NDF : 13030.0/56

Out: -31.847 ± 0.169 χ^2/NDF : 14819.9/61

All: -31.498 ± 0.121 χ^2/NDF : 27858.6/118

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.699 ± 0.387 χ^2/NDF : 5205.6/33

Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24

Right Out: 67.373 ± 0.392 χ^2/NDF : 6153.4/36

Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47

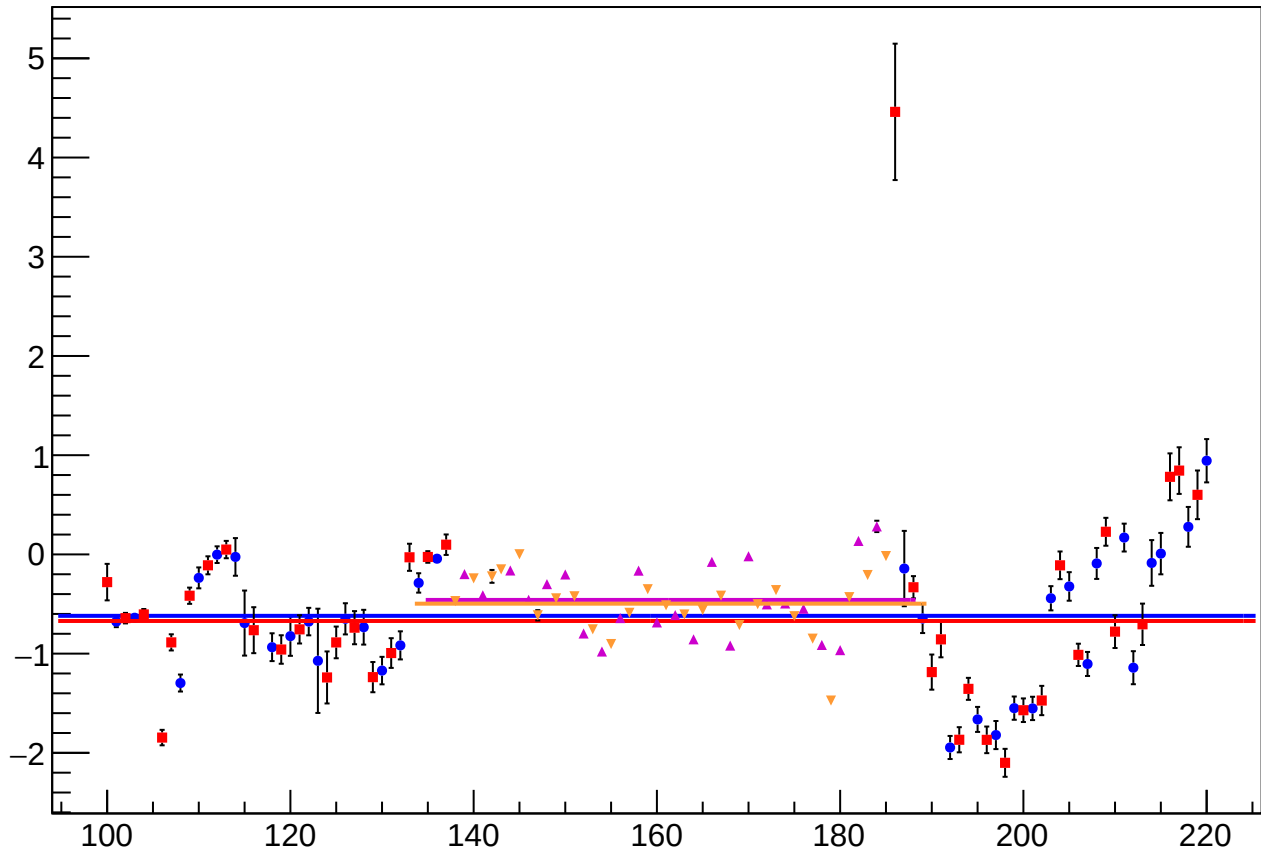
Right: 68.045 ± 0.275 χ^2/NDF : 11364.8/70

In: 69.275 ± 0.156 χ^2/NDF : 8530.1/56

Out: 70.076 ± 0.153 χ^2/NDF : 10798.7/61

All: 69.683 ± 0.109 χ^2/NDF : 19342.2/118

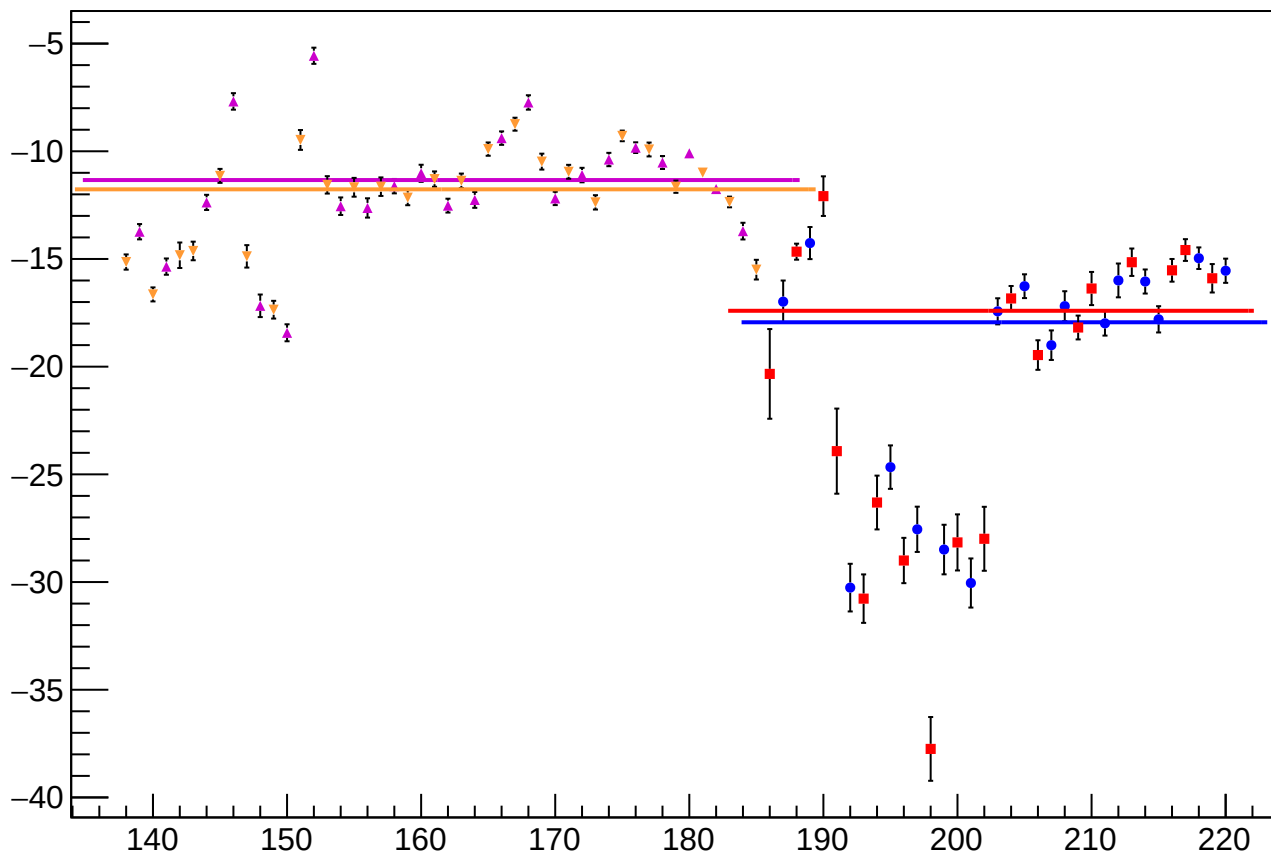
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.619 ± 0.019 χ^2/NDF : 890.5/33
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.671 ± 0.018 χ^2/NDF : 1230.0/36
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.646 ± 0.013 χ^2/NDF : 2124.4/70
 In: -0.482 ± 0.007 χ^2/NDF : 2910.3/56
 Out: -0.522 ± 0.007 χ^2/NDF : 2756.5/61
 All: -0.502 ± 0.005 χ^2/NDF : 5683.1/118

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.939 ± 0.169 $\chi^2/\text{NDF}: 558.6/16$

Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$

Right Out: -17.406 ± 0.169 $\chi^2/\text{NDF}: 797.3/17$

Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$

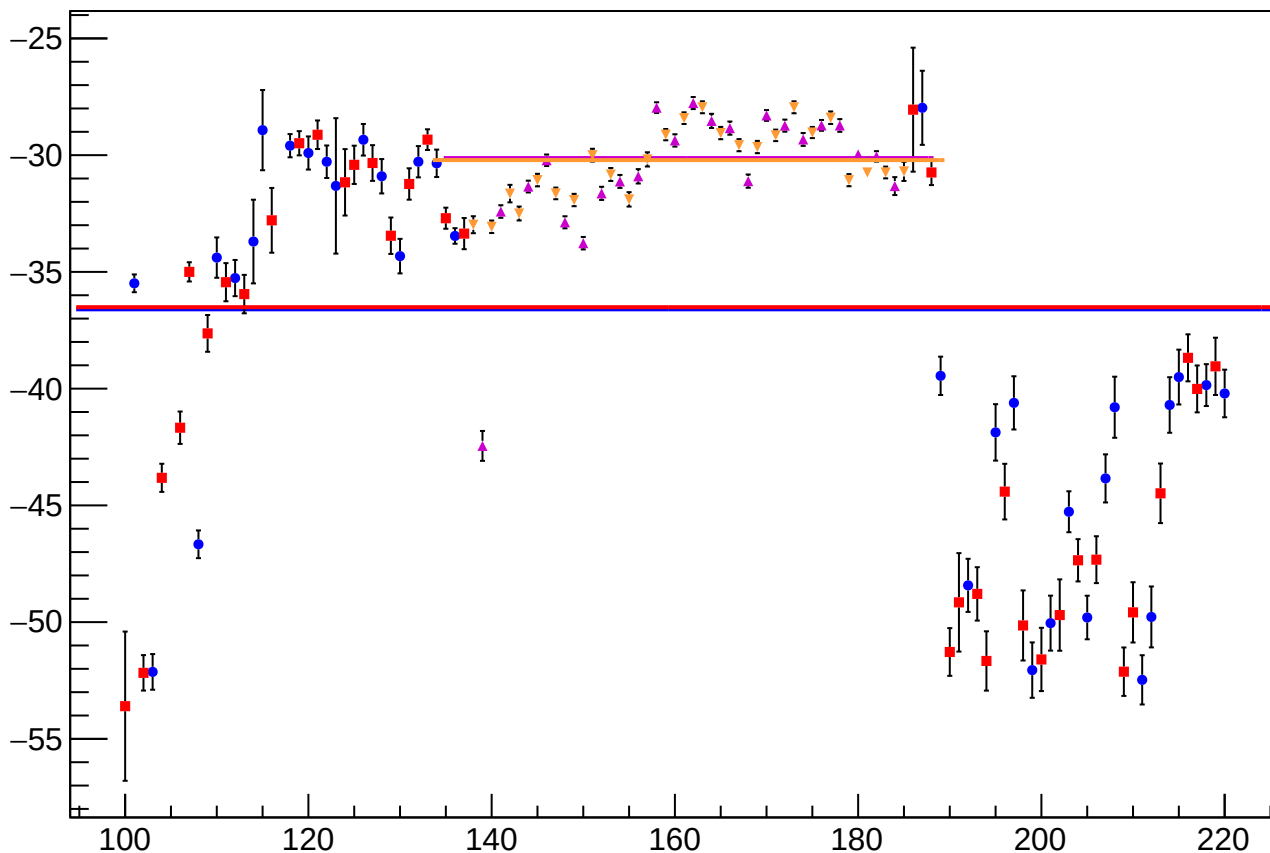
Right: -17.672 ± 0.119 $\chi^2/\text{NDF}: 1360.9/34$

In: -12.257 ± 0.063 $\chi^2/\text{NDF}: 3142.3/39$

Out: -12.527 ± 0.062 $\chi^2/\text{NDF}: 2782.8/42$

All: -12.395 ± 0.044 $\chi^2/\text{NDF}: 5934.4/82$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.603 ± 0.131 χ^2/NDF : 2801.6/33

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -36.511 ± 0.130 χ^2/NDF : 3178.7/36

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

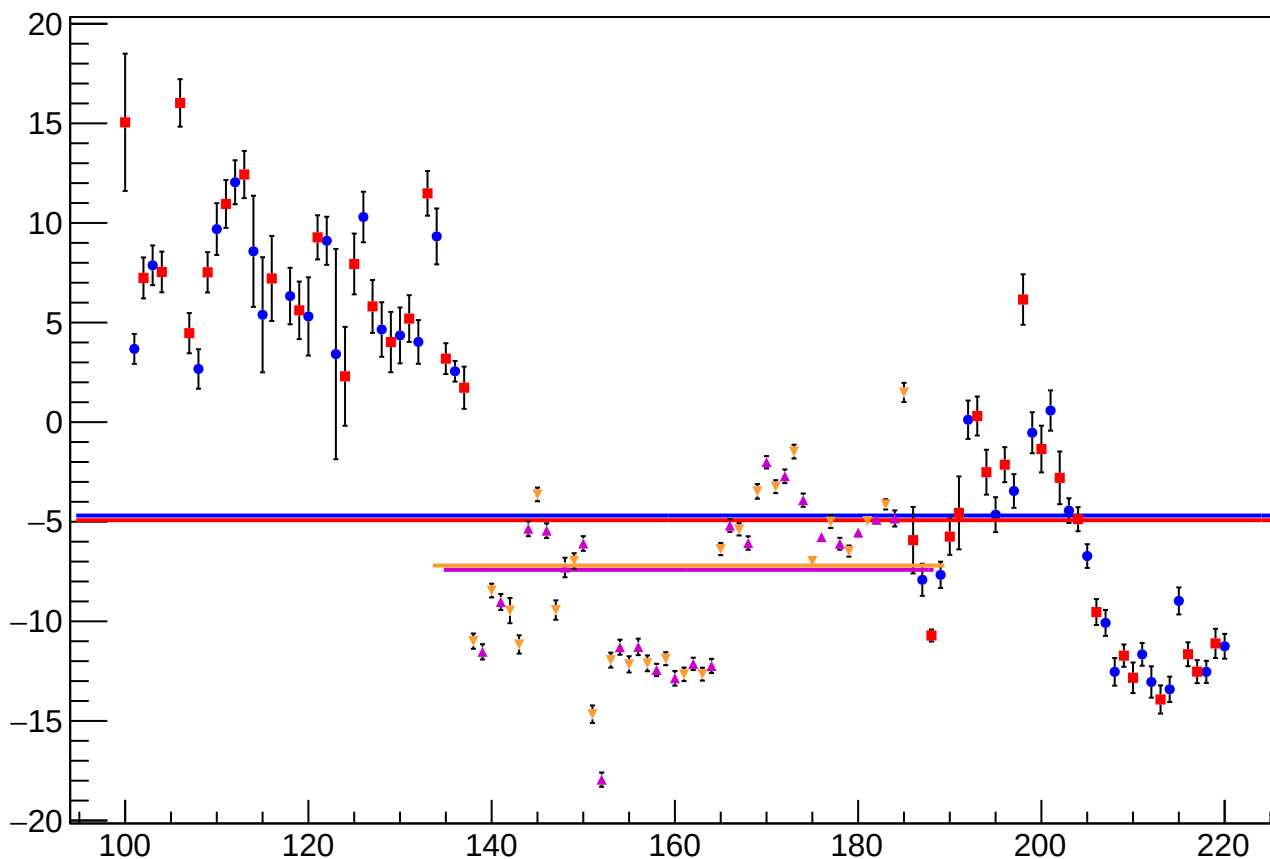
Right: -36.557 ± 0.092 χ^2/NDF : 5980.5/70

In: -31.105 ± 0.051 χ^2/NDF : 6091.6/56

Out: -31.134 ± 0.050 χ^2/NDF : 5914.7/61

All: -31.120 ± 0.036 χ^2/NDF : 12006.4/118

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.689 ± 0.144 χ^2/NDF : 2645.5/33

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -4.923 ± 0.140 χ^2/NDF : 3465.2/36

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

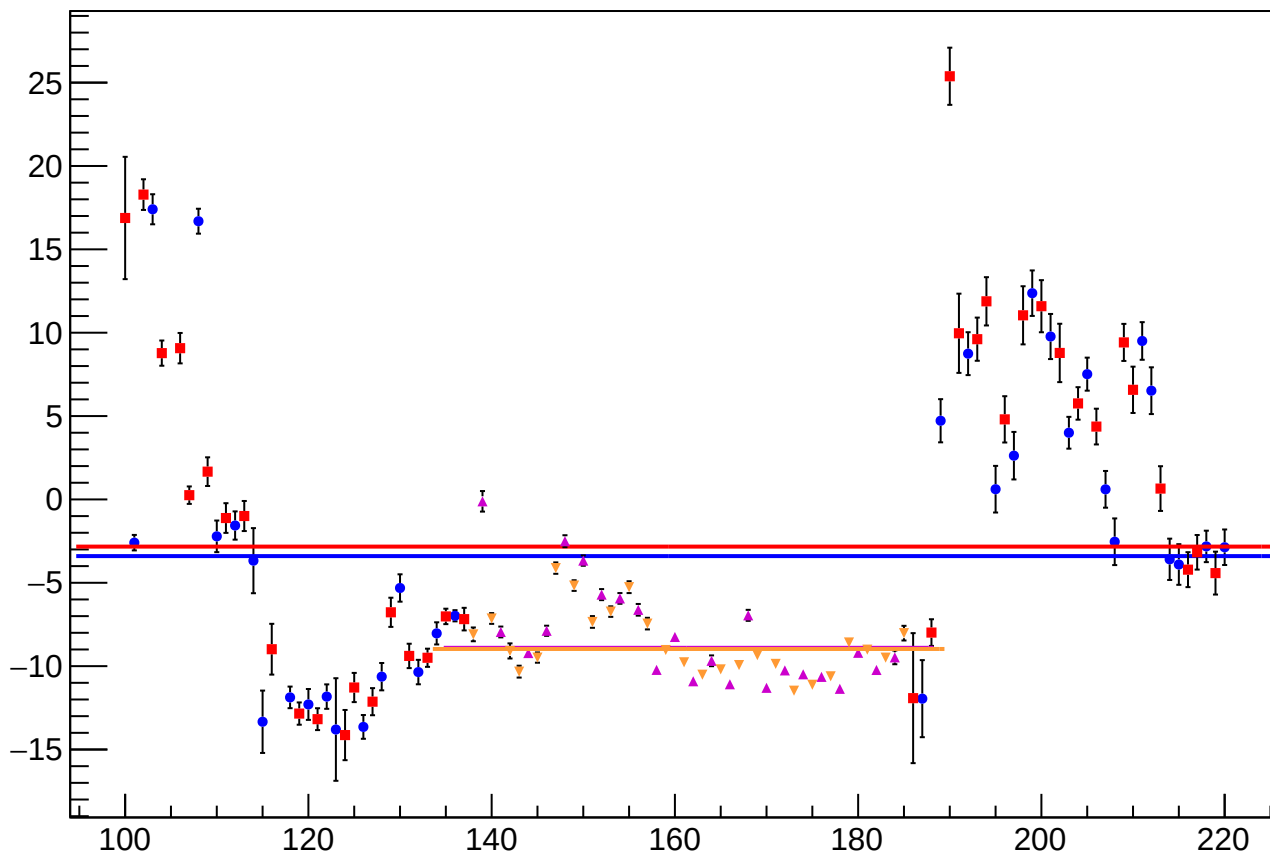
Right: -4.809 ± 0.100 χ^2/NDF : 6112.0/70

In: -6.920 ± 0.061 χ^2/NDF : 6061.8/56

Out: -6.777 ± 0.060 χ^2/NDF : 6716.9/61

All: -6.847 ± 0.043 χ^2/NDF : 12781.4/118

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.399 ± 0.148 χ^2/NDF : 3014.2/33

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.829 ± 0.150 χ^2/NDF : 3240.7/36

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

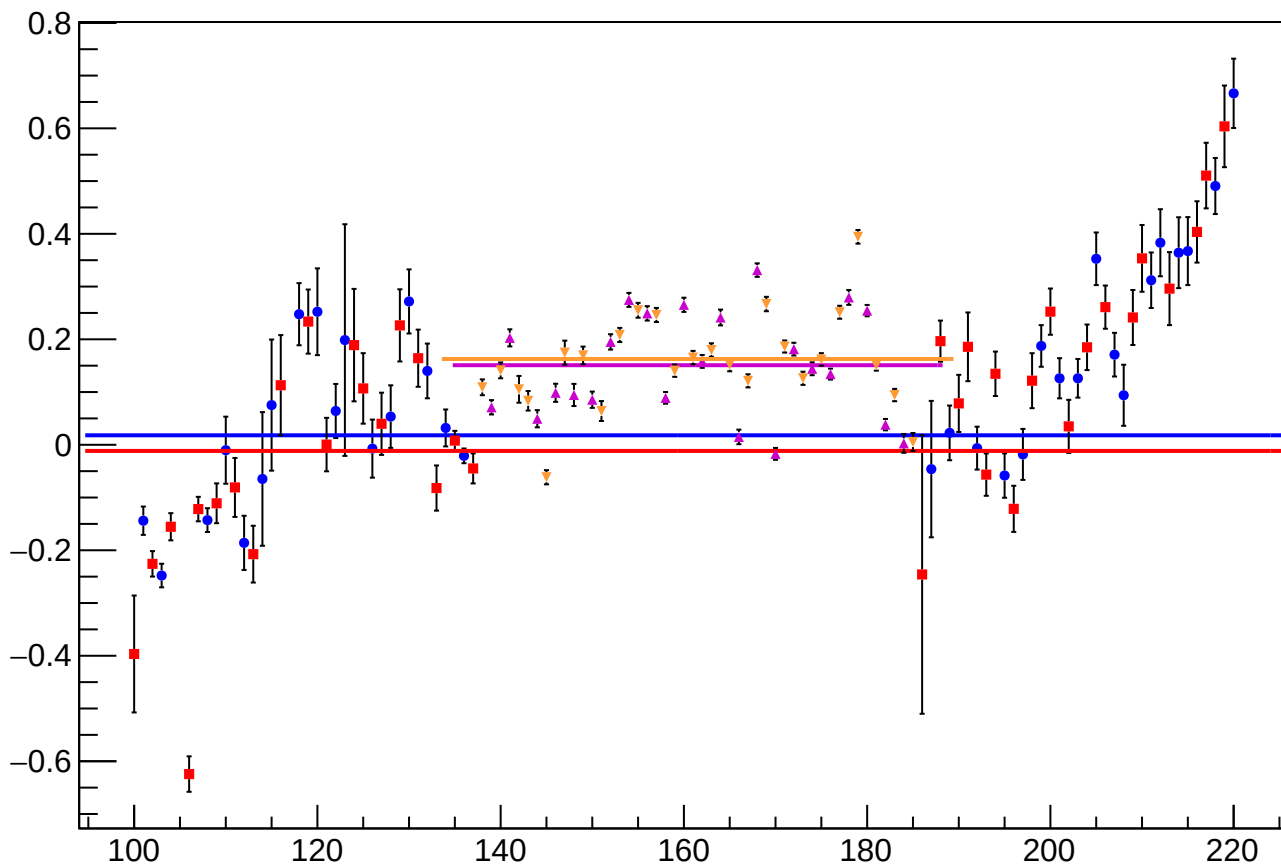
Right: -3.119 ± 0.105 χ^2/NDF : 6262.1/70

In: -8.086 ± 0.057 χ^2/NDF : 5726.9/56

Out: -8.120 ± 0.056 χ^2/NDF : 5561.9/61

All: -8.103 ± 0.040 χ^2/NDF : 11289.0/118

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.007 χ^2 /NDF: 697.9/33

Left Out: 0.163 $\pm$ 0.003 χ^2 /NDF:1018.1/24

Right Out: -0.012 $\pm$ 0.007 χ^2 /NDF: 982.5/36

Left In: 0.151 $\pm$ 0.003 χ^2 /NDF:1286.5/22

Left: 0.157 $\pm$ 0.002 χ^2 /NDF: 2313.9/47

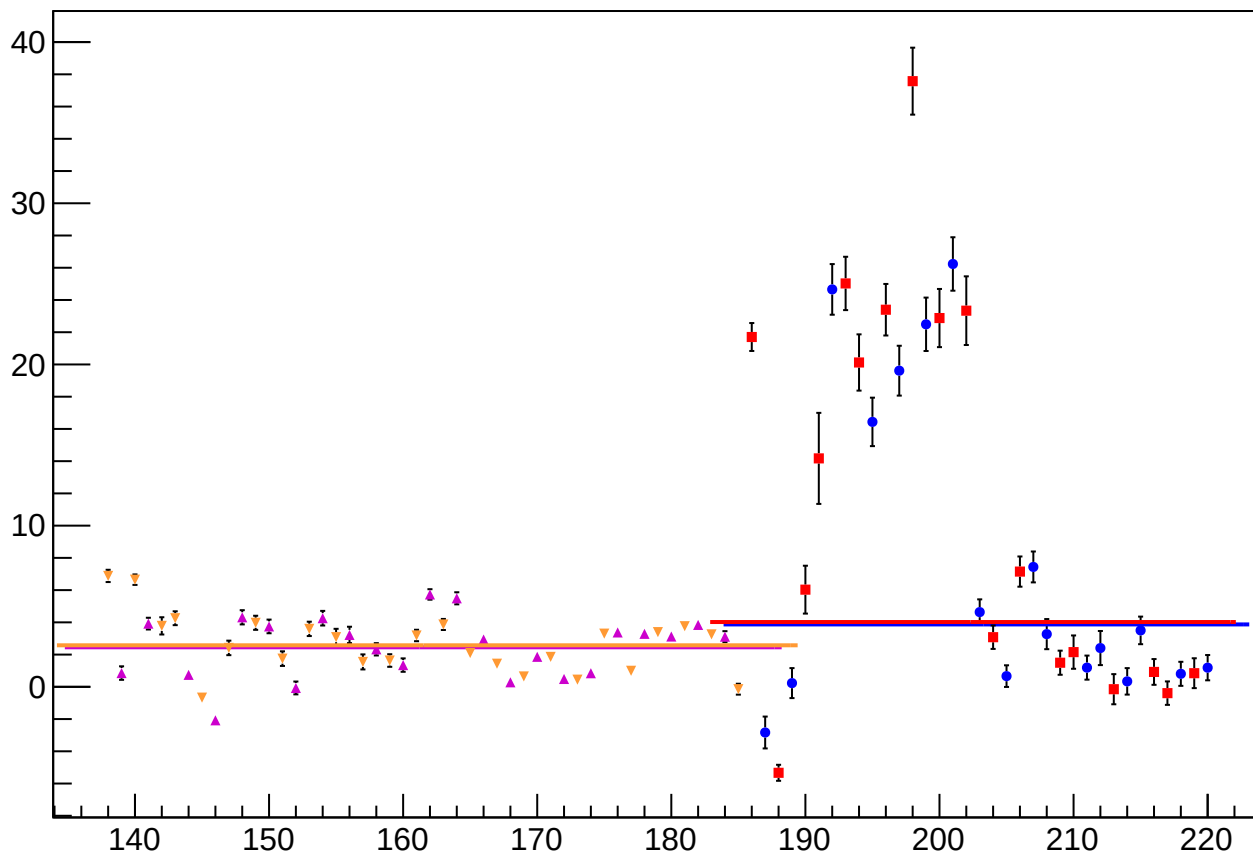
Right: 0.003 $\pm$ 0.005 χ^2 /NDF: 1689.7/70

In: 0.132 $\pm$ 0.003 χ^2 /NDF:2306.4/56

Out: 0.139 $\pm$ 0.003 χ^2 /NDF:2551.1/61

All: 0.136 $\pm$ 0.002 χ^2 /NDF: 4861.2/118

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.872 ± 0.228 $\chi^2/\text{NDF}: 818.3/16$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 4.020 ± 0.227 $\chi^2/\text{NDF}: 1742.7/17$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

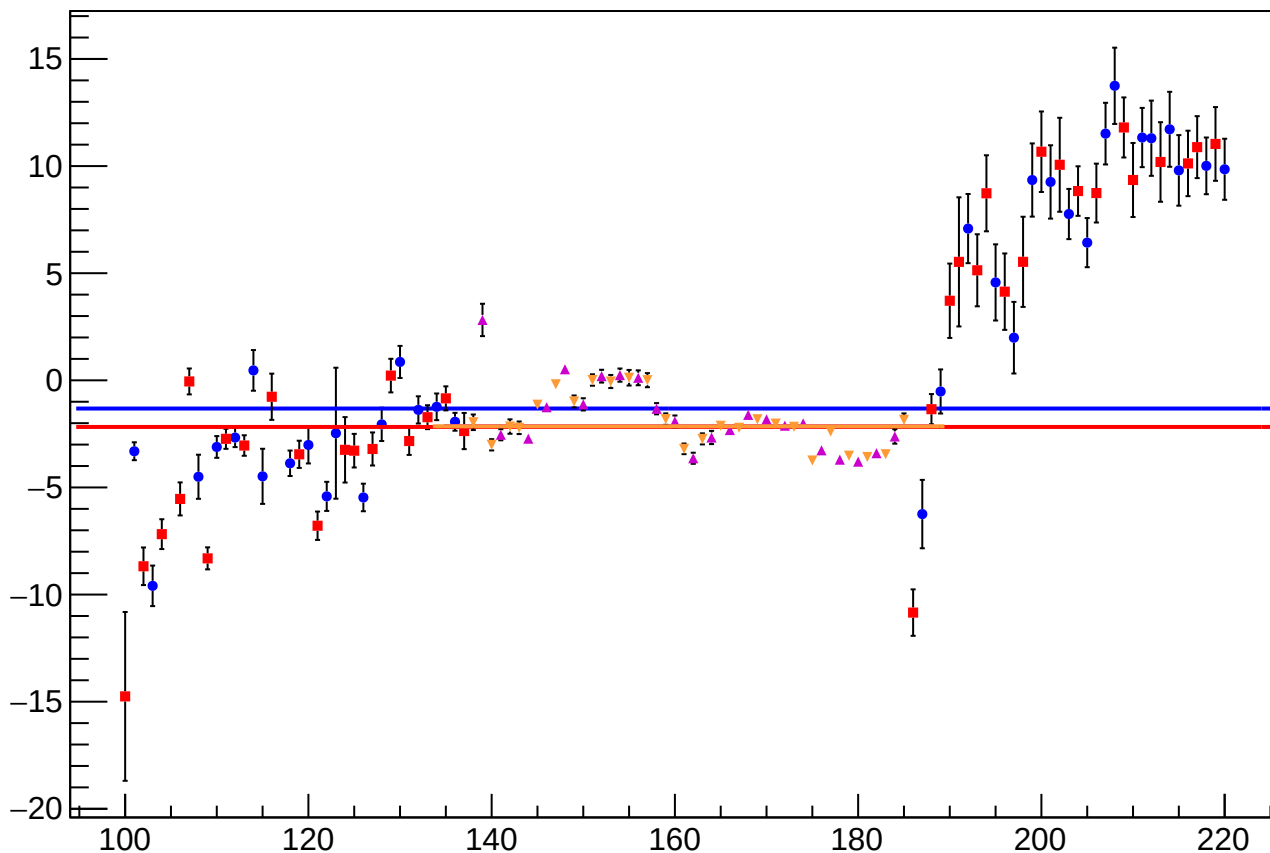
Right: 3.946 ± 0.161 $\chi^2/\text{NDF}: 2561.2/34$

In: 2.542 ± 0.057 $\chi^2/\text{NDF}: 1725.7/39$

Out: 2.666 ± 0.056 $\chi^2/\text{NDF}: 2648.0/42$

All: 2.605 ± 0.040 $\chi^2/\text{NDF}: 4376.1/82$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



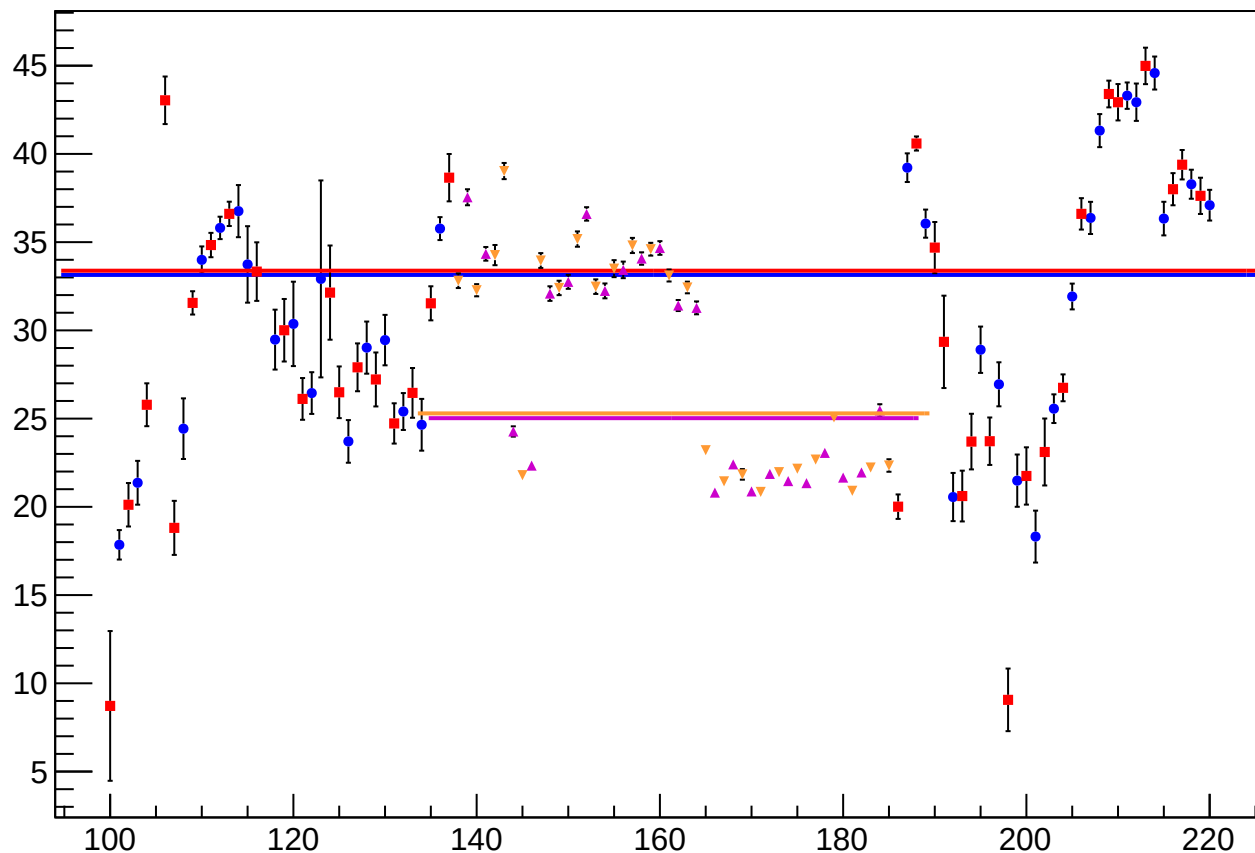
Right In: -1.317 ± 0.142 $\chi^2/\text{NDF}: 1009.3/33$
 Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$
 Right Out: -2.177 ± 0.141 $\chi^2/\text{NDF}: 1161.8/36$
 Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$
 Right: -1.751 ± 0.100 $\chi^2/\text{NDF}: 2189.5/70$

In: -2.051 ± 0.046 $\chi^2/\text{NDF}: 1730.3/56$
 Out: -2.149 ± 0.045 $\chi^2/\text{NDF}: 1735.2/61$

All: -2.101 ± 0.032 $\chi^2/\text{NDF}: 3467.8/118$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.143 $\pm$ 0.174 χ^2 /NDF: 1715.9/33

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24

Right Out: 33.382 $\pm$ 0.166 χ^2 /NDF: 2268.2/36

Left In: 25.025 $\pm$ 0.060 χ^2 /NDF: 7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47

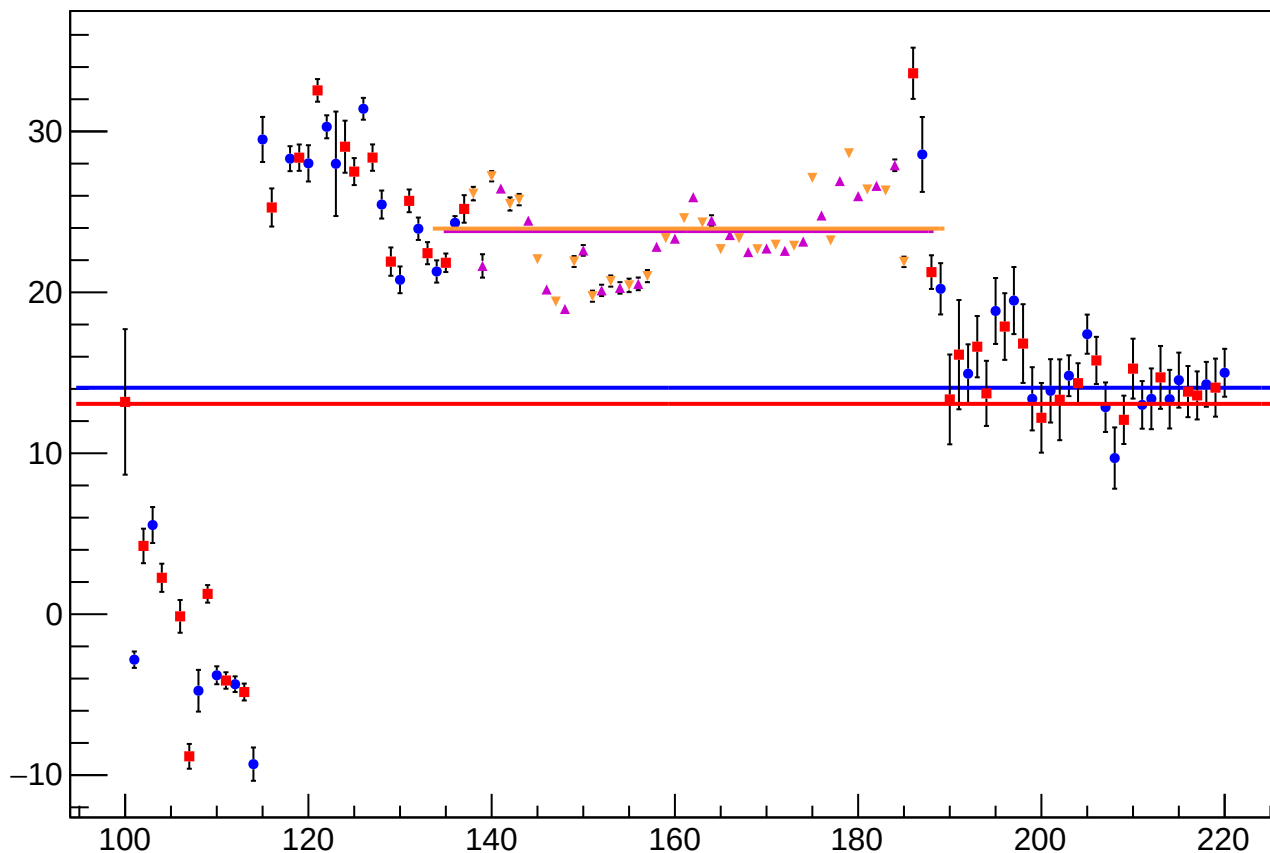
Right: 33.268 $\pm$ 0.120 χ^2 /NDF: 3985.1/70

In: 25.881 $\pm$ 0.056 χ^2 /NDF: 11281.7/56

Out: 26.199 $\pm$ 0.055 χ^2 /NDF: 12649.3/61

All: 26.042 $\pm$ 0.040 χ^2 /NDF: 23947.1/118

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.071 $\pm$ 0.159 χ^2 /NDF: 7358.0/33

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.071 $\pm$ 0.160 χ^2 /NDF: 7215.5/36

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

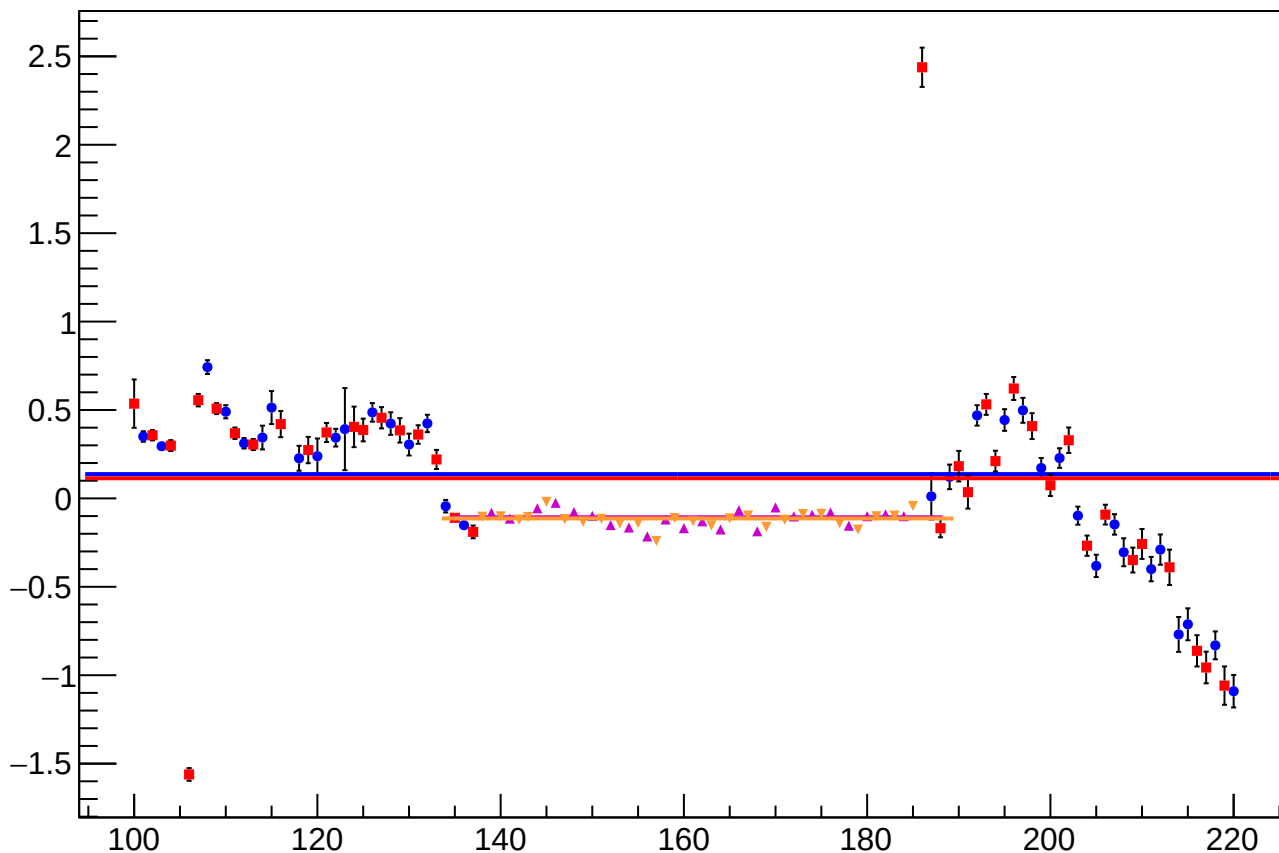
Right: 13.574 $\pm$ 0.113 χ^2 /NDF: 14593.2/70

In: 22.796 $\pm$ 0.051 χ^2 /NDF:12483.6/56

Out: 22.878 $\pm$ 0.050 χ^2 /NDF:13315.0/61

All: 22.838 $\pm$ 0.036 χ^2 /NDF: 25799.9/118

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137+/-0.008 χ^2/NDF : 1718.7/33

Left Out: -0.113+/-0.002 χ^2/NDF : 291.0/24

Right Out: 0.114+/-0.008 χ^2/NDF : 4158.2/36

Left In: -0.107+/-0.002 χ^2/NDF : 321.8/22

Left: -0.110+/-0.002 χ^2/NDF : 616.6/47

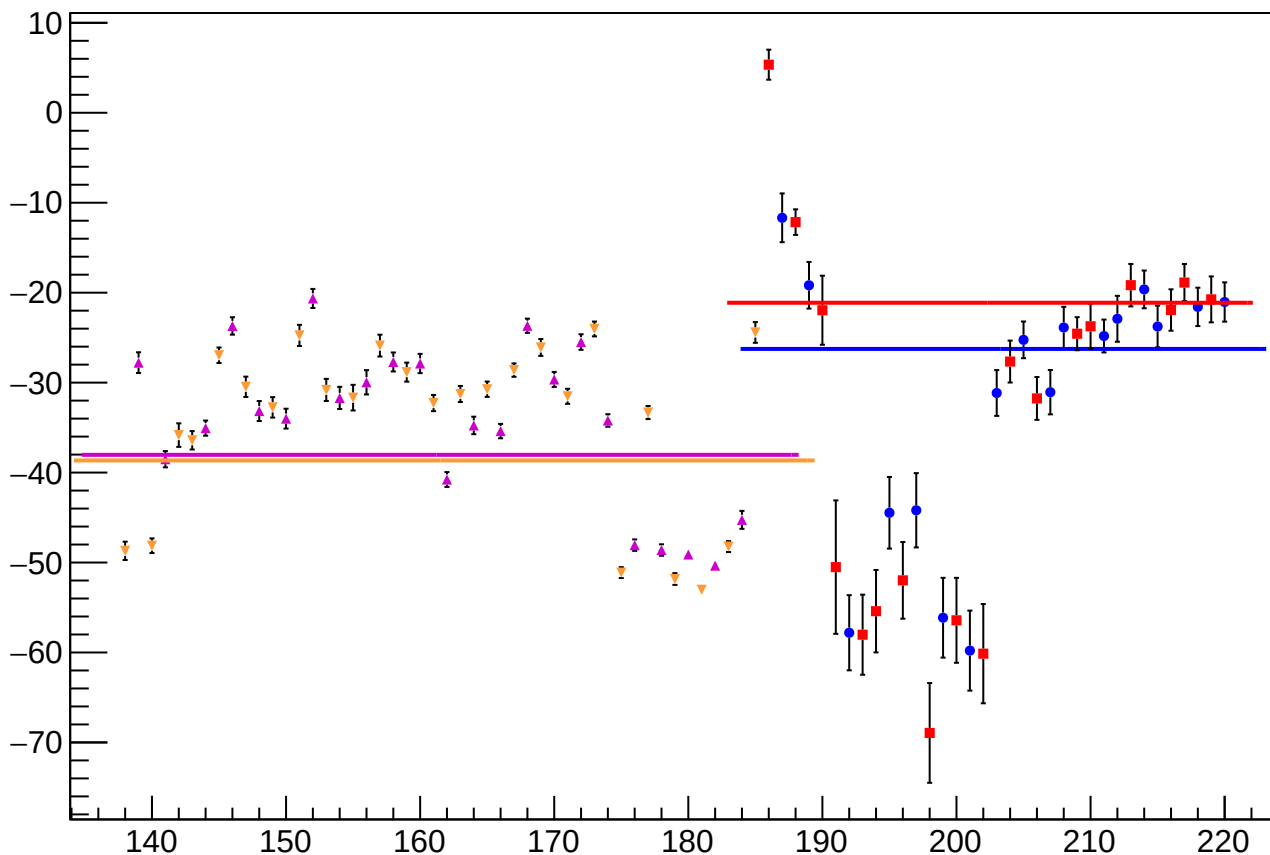
Right: 0.126+/-0.006 χ^2/NDF : 5881.1/70

In: -0.086+/-0.002 χ^2/NDF : 2858.0/56

Out: -0.095+/-0.002 χ^2/NDF : 5176.8/61

All: -0.091+/-0.002 χ^2/NDF : 8041.2/118

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.254 ± 0.619 χ^2/NDF : 268.2/16

Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24

Right Out: -21.119 ± 0.600 χ^2/NDF : 698.9/17

Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47

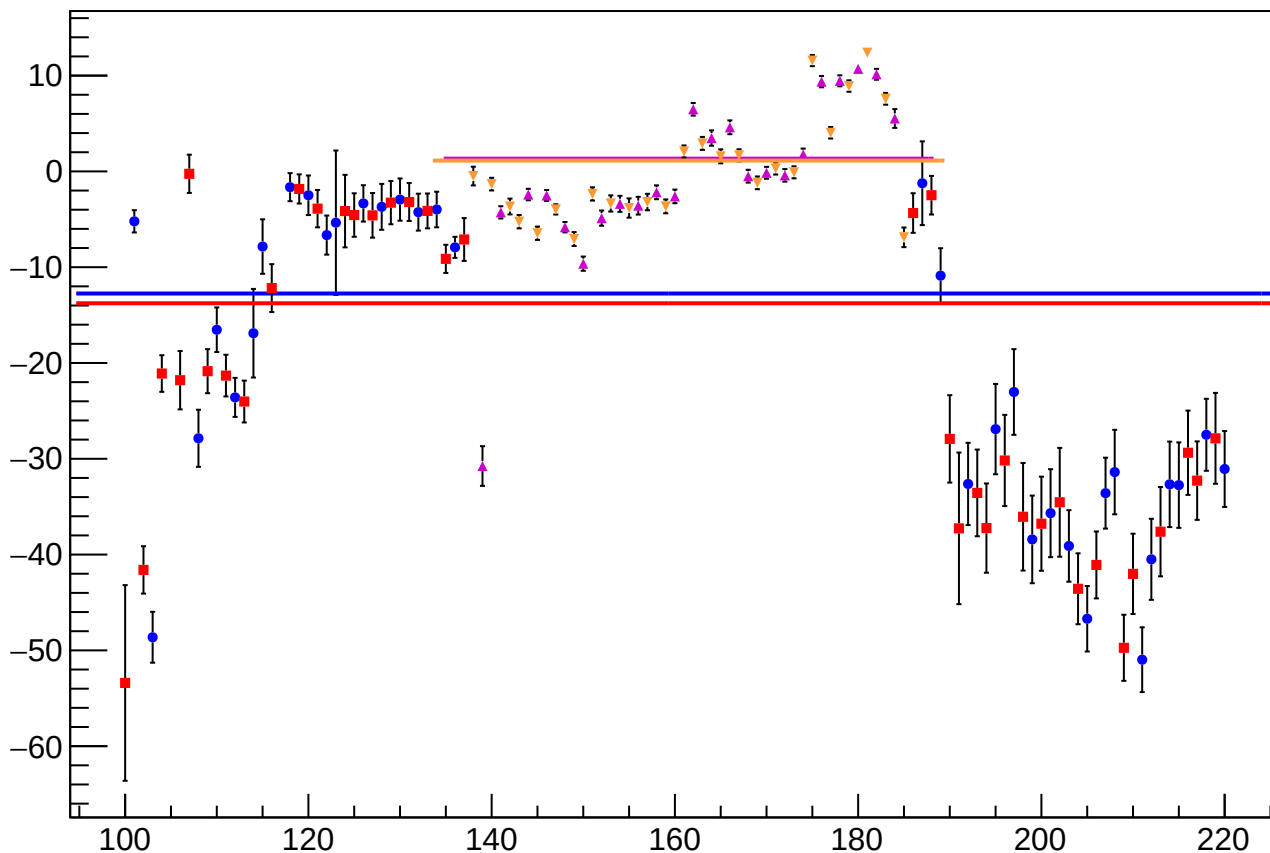
Right: -23.608 ± 0.431 χ^2/NDF : 1002.5/34

In: -37.172 ± 0.167 χ^2/NDF : 3695.6/39

Out: -37.361 ± 0.163 χ^2/NDF : 5566.3/42

All: -37.269 ± 0.116 χ^2/NDF : 9262.5/82

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.748 ± 0.420 χ^2/NDF : 1041.5/33

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.766 ± 0.429 χ^2/NDF : 1002.2/36

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

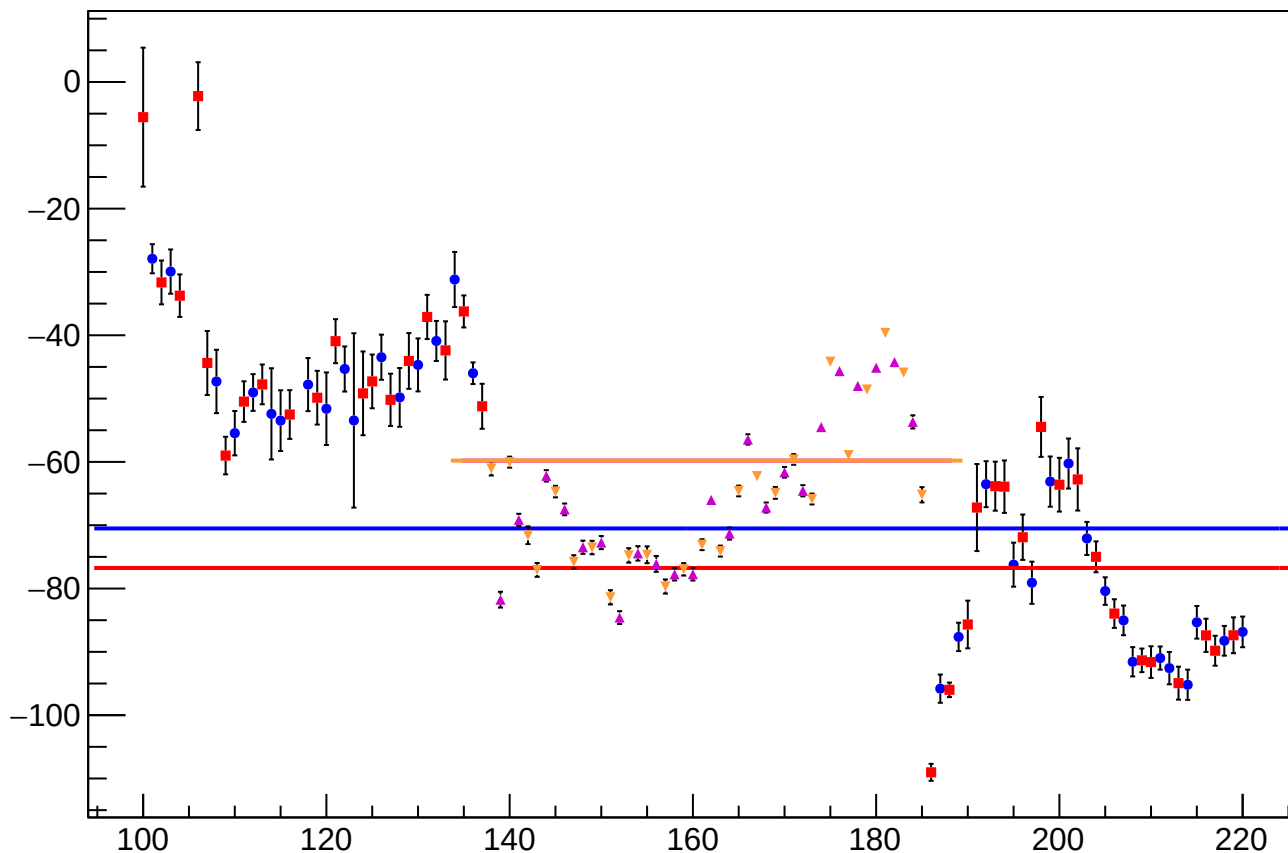
Right: -13.245 ± 0.300 χ^2/NDF : 2046.6/70

In: -0.076 ± 0.133 χ^2/NDF : 4101.3/56

Out: -0.227 ± 0.130 χ^2/NDF : 3894.9/61

All: -0.154 ± 0.093 χ^2/NDF : 7996.9/118

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.510 ± 0.496 χ^2/NDF : 1969.5/33

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -76.753 ± 0.472 χ^2/NDF : 2791.5/36

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

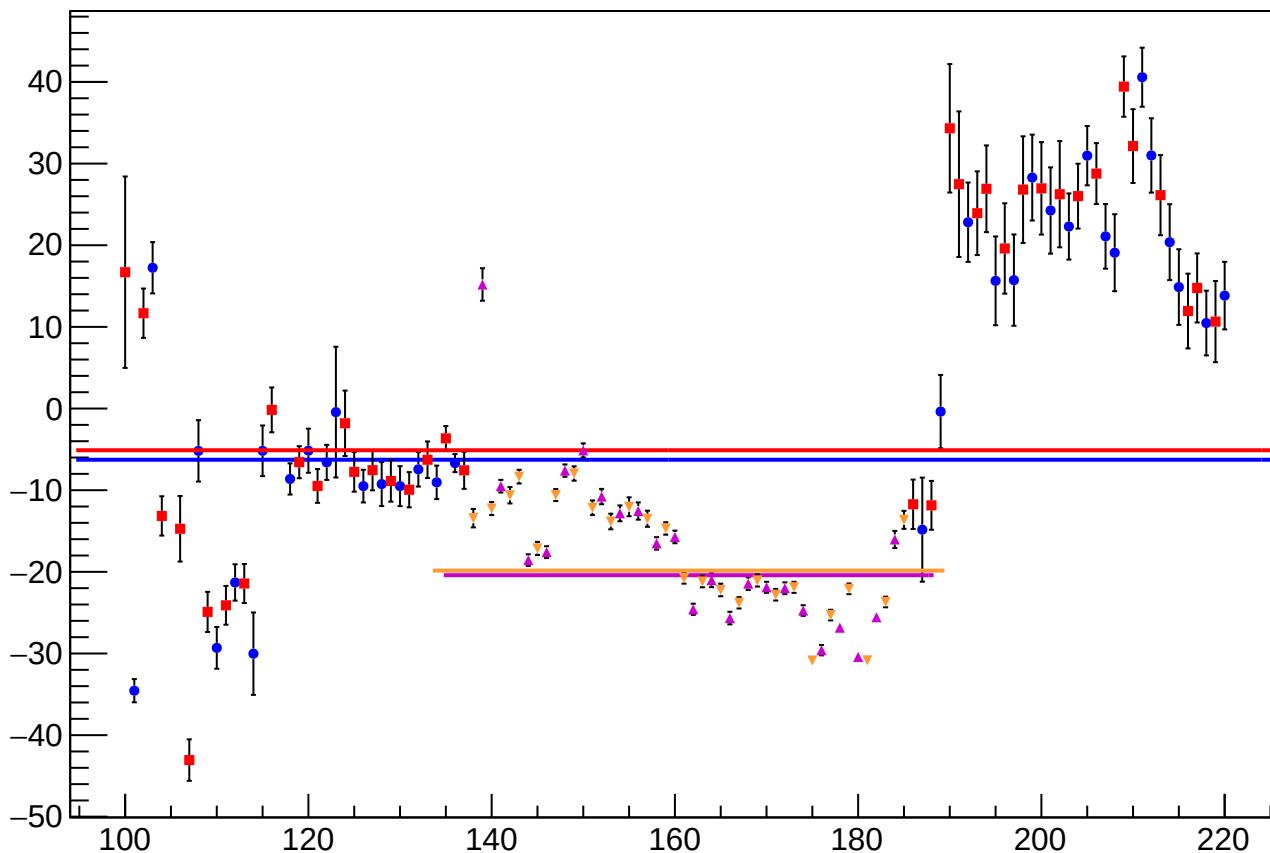
Right: -73.790 ± 0.342 χ^2/NDF : 4844.1/70

In: -60.965 ± 0.164 χ^2/NDF : 7601.8/56

Out: -61.740 ± 0.160 χ^2/NDF : 9773.0/61

All: -61.361 ± 0.114 χ^2/NDF : 17386.3/118

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.269 ± 0.472 $\chi^2/\text{NDF}: 1320.2/33$

Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$

Right Out: -5.106 ± 0.492 $\chi^2/\text{NDF}: 1130.5/36$

Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$

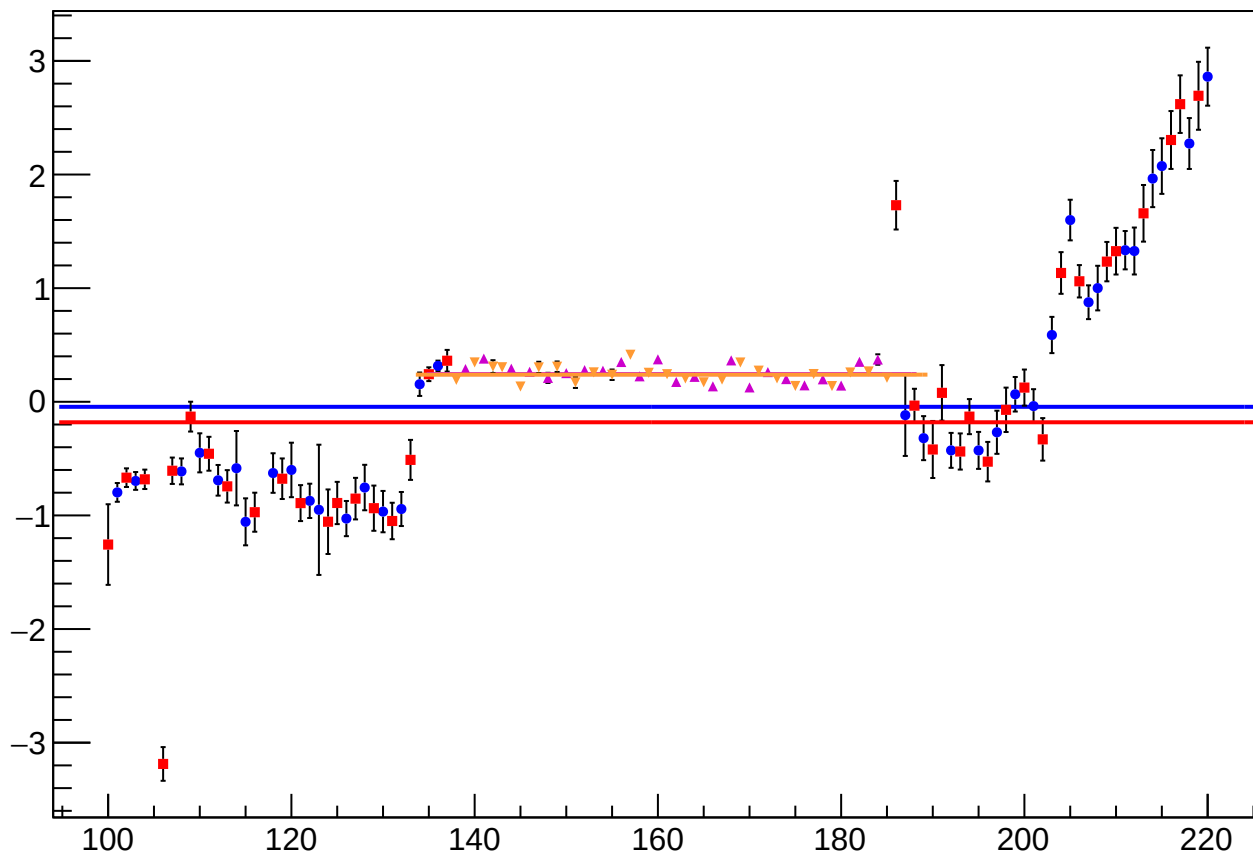
Right: -5.712 ± 0.341 $\chi^2/\text{NDF}: 2453.6/70$

In: -19.008 ± 0.149 $\chi^2/\text{NDF}: 4430.0/56$

Out: -18.552 ± 0.146 $\chi^2/\text{NDF}: 3880.0/61$

All: -18.776 ± 0.104 $\chi^2/\text{NDF}: 8314.8/118$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.044 ± 0.023 χ^2/NDF : 1130.5/33

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.180 ± 0.024 χ^2/NDF : 1443.4/36

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

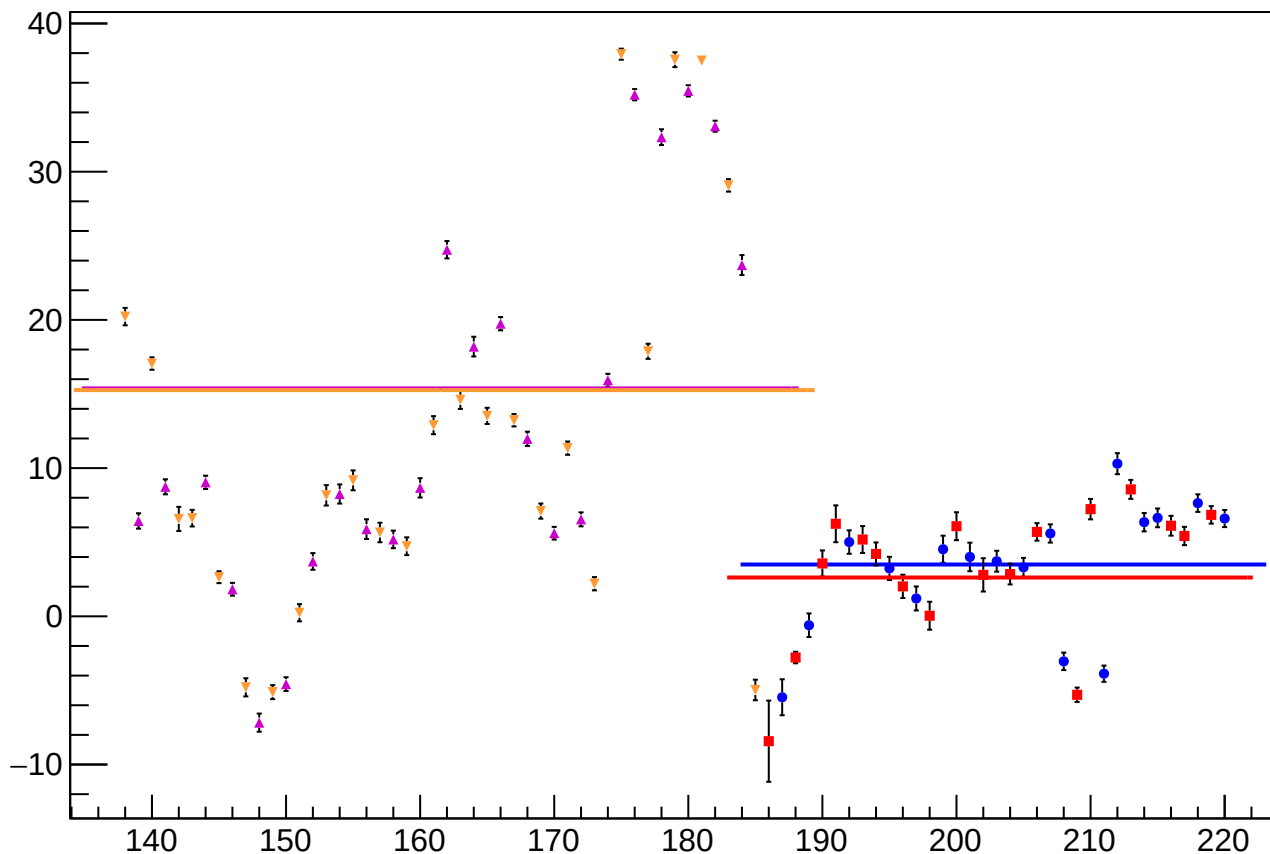
Right: -0.111 ± 0.017 χ^2/NDF : 2590.2/70

In: 0.219 ± 0.007 χ^2/NDF : 1405.9/56

Out: 0.206 ± 0.007 χ^2/NDF : 1815.6/61

All: 0.212 ± 0.005 χ^2/NDF : 3223.2/118

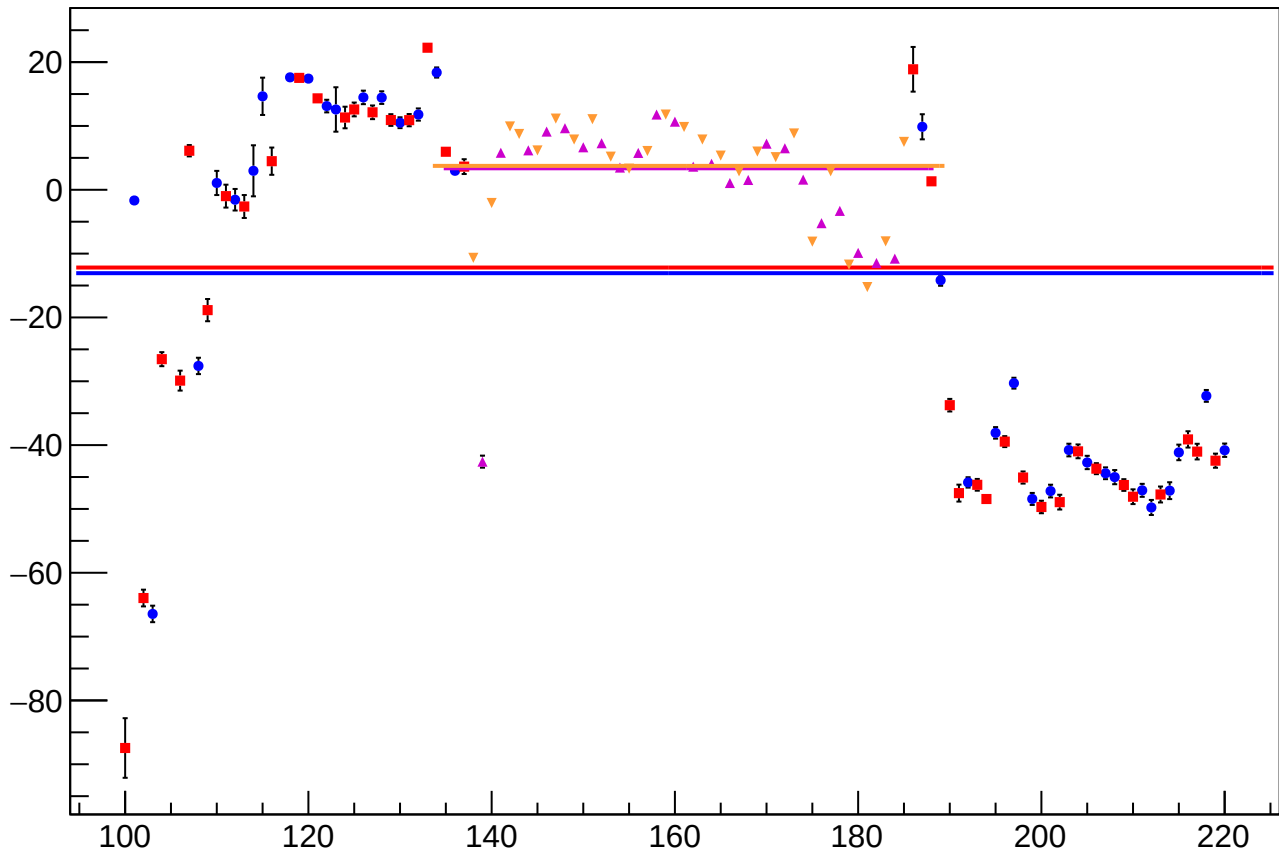
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.496 $\pm$ 0.168 χ^2 /NDF: 623.7/16
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 2.618 $\pm$ 0.163 χ^2 /NDF: 771.8/17
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 3.045 $\pm$ 0.117 χ^2 /NDF: 1409.5/34
 In: 12.137 $\pm$ 0.088 χ^2 /NDF:20538.5/39
 Out: 11.783 $\pm$ 0.086 χ^2 /NDF:24303.9/42
 All: 11.956 $\pm$ 0.061 χ^2 /NDF: 44850.7/82

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.065 ± 0.163 $\chi^2/\text{NDF}: 27867.1/33$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -12.182 ± 0.157 $\chi^2/\text{NDF}: 33040.6/36$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

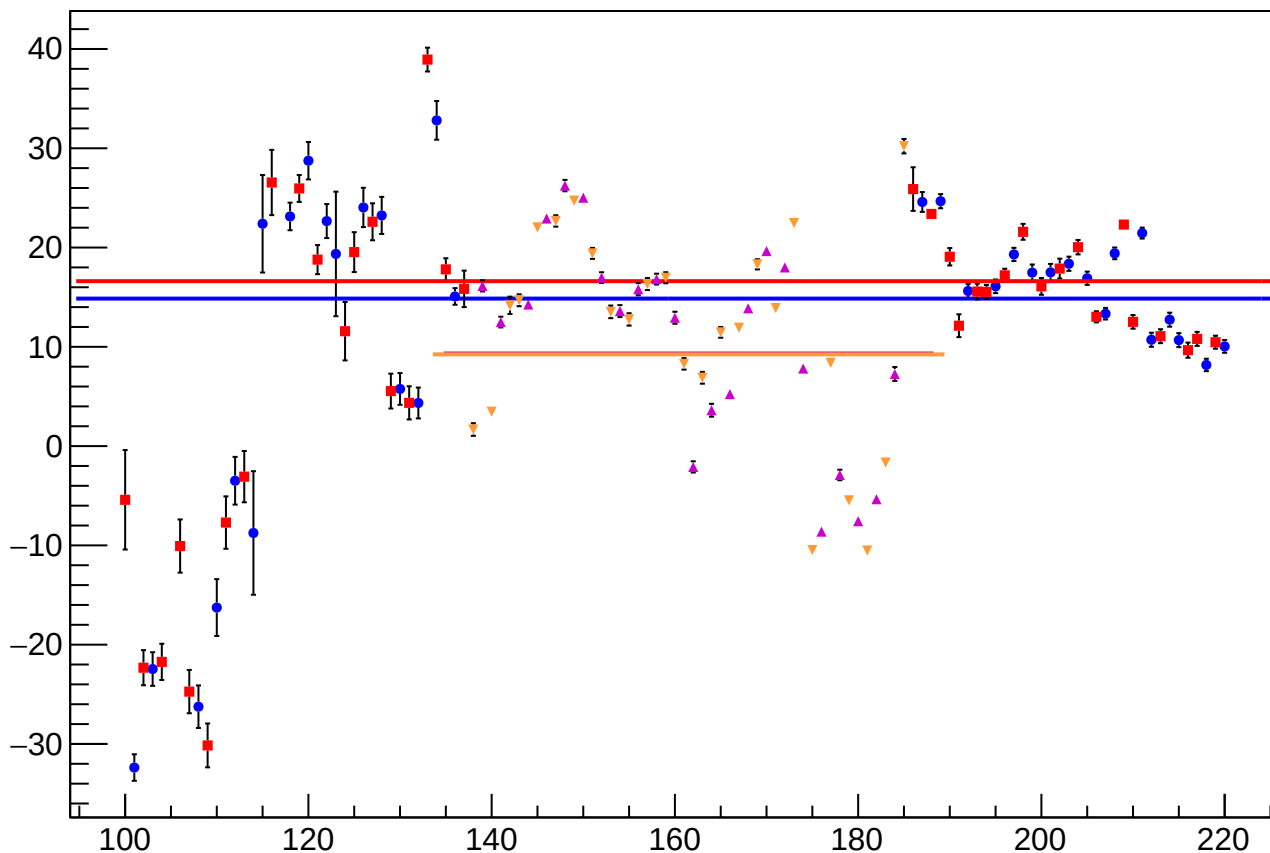
Right: -12.607 ± 0.113 $\chi^2/\text{NDF}: 60923.0/70$

In: 0.090 ± 0.073 $\chi^2/\text{NDF}: 44547.6/56$

Out: 0.544 ± 0.070 $\chi^2/\text{NDF}: 50511.4/61$

All: 0.324 ± 0.051 $\chi^2/\text{NDF}: 95079.1/118$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.858 $\pm$ 0.154 χ^2 /NDF: 3460.8/33

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 16.614 $\pm$ 0.145 χ^2 /NDF: 3589.5/36

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

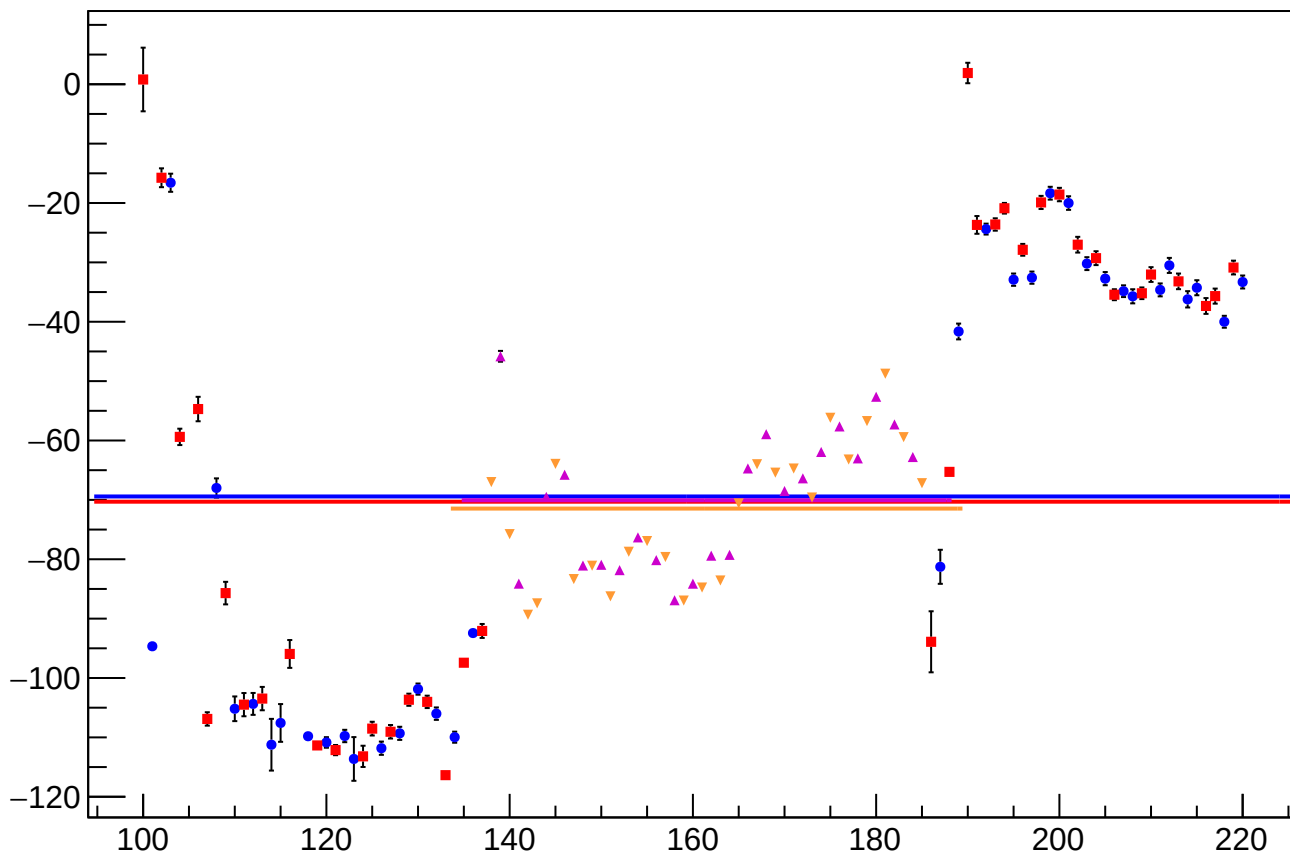
Right: 15.785 $\pm$ 0.106 χ^2 /NDF: 7119.0/70

In: 11.030 $\pm$ 0.085 χ^2 /NDF:16324.3/56

Out: 11.636 $\pm$ 0.083 χ^2 /NDF:18956.1/61

All: 11.342 $\pm$ 0.059 χ^2 /NDF: 35306.3/118

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.426 ± 0.185 $\chi^2/\text{NDF}: 38871.4/33$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -70.304 ± 0.182 $\chi^2/\text{NDF}: 46118.6/36$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

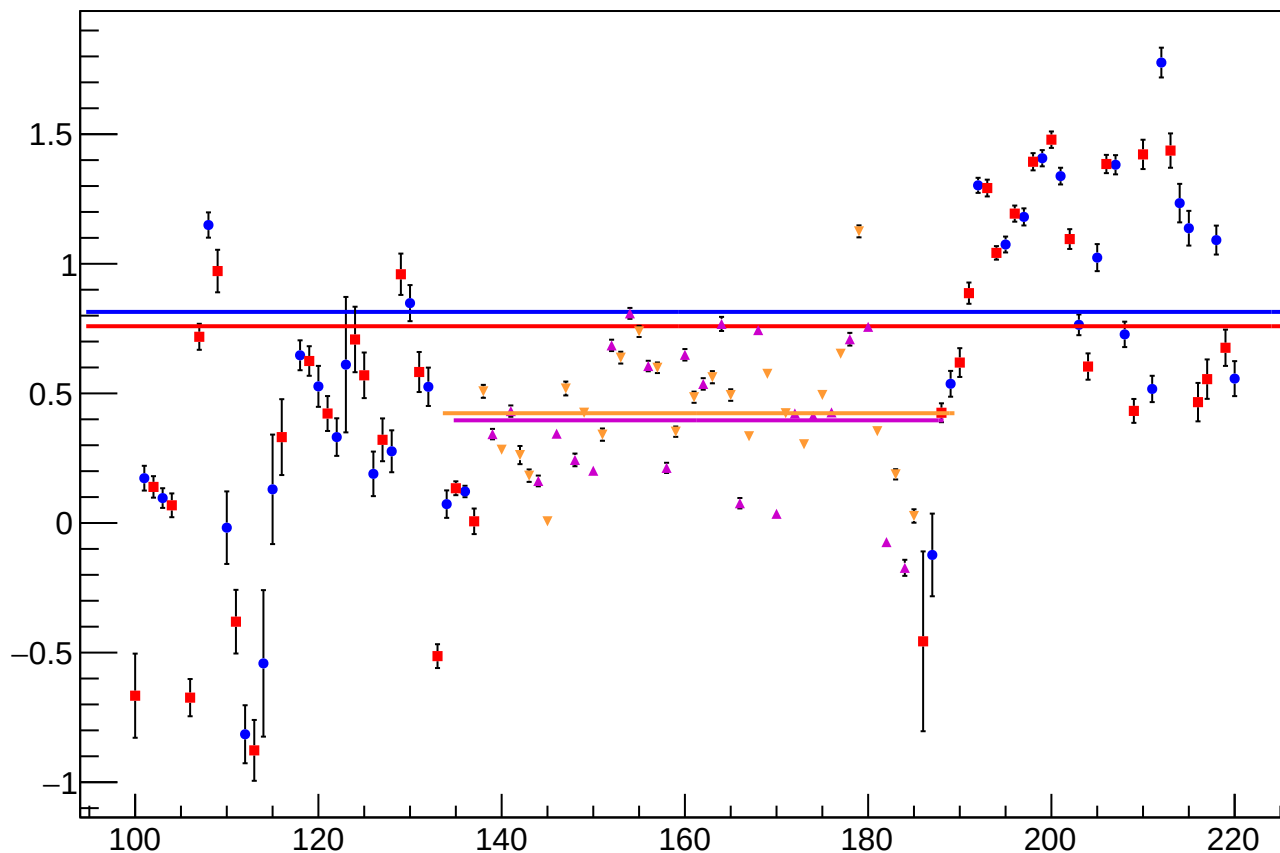
Right: -69.873 ± 0.130 $\chi^2/\text{NDF}: 85001.5/70$

In: -69.936 ± 0.082 $\chi^2/\text{NDF}: 51939.3/56$

Out: -71.240 ± 0.080 $\chi^2/\text{NDF}: 62561.1/61$

All: -70.605 ± 0.057 $\chi^2/\text{NDF}: 114629.4/118$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.814 $\pm$ 0.008 χ^2 /NDF: 4053.8/33

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.759 $\pm$ 0.008 χ^2 /NDF: 5138.1/36

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

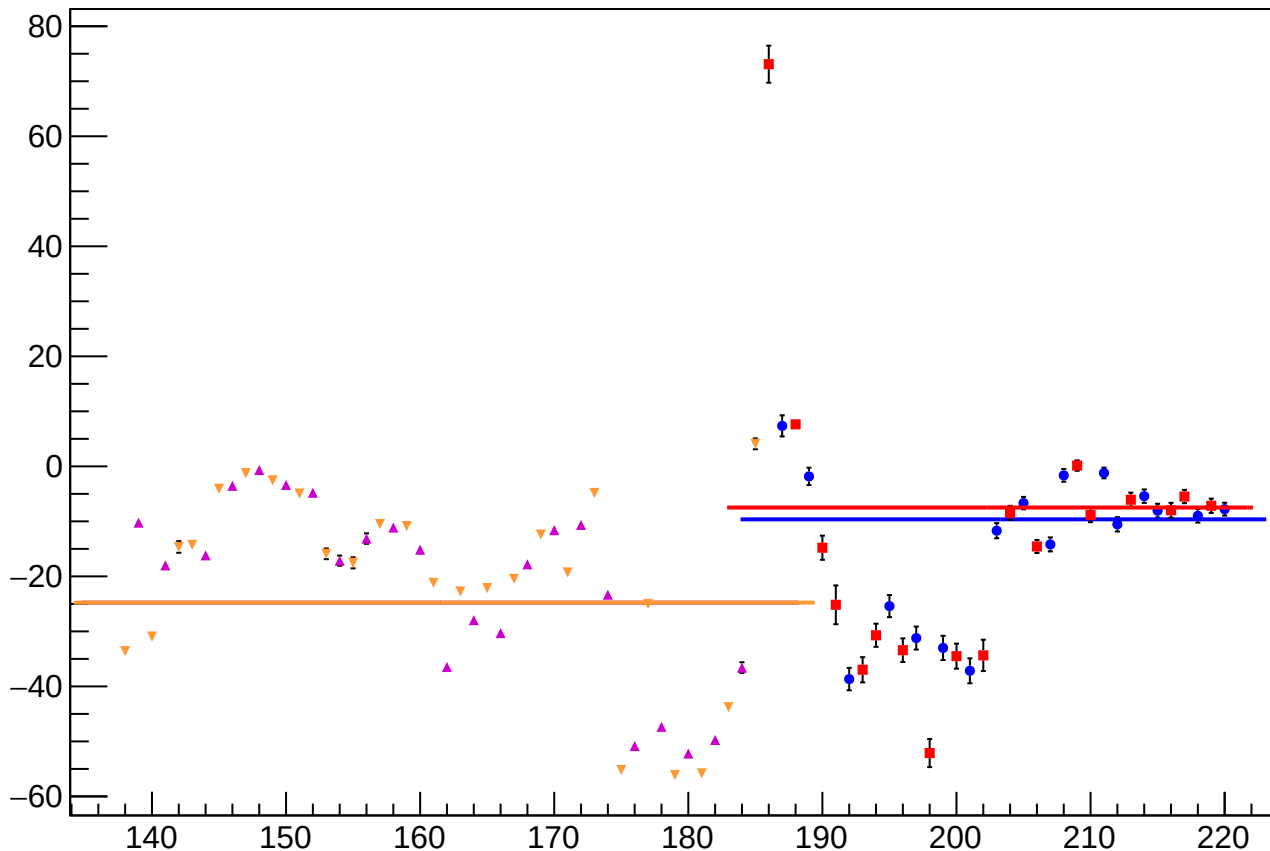
Right: 0.786 $\pm$ 0.006 χ^2 /NDF: 9215.4/70

In: 0.482 $\pm$ 0.004 χ^2 /NDF:10169.3/56

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9442.9/61

All: 0.488 $\pm$ 0.003 χ^2 /NDF: 19618.2/118

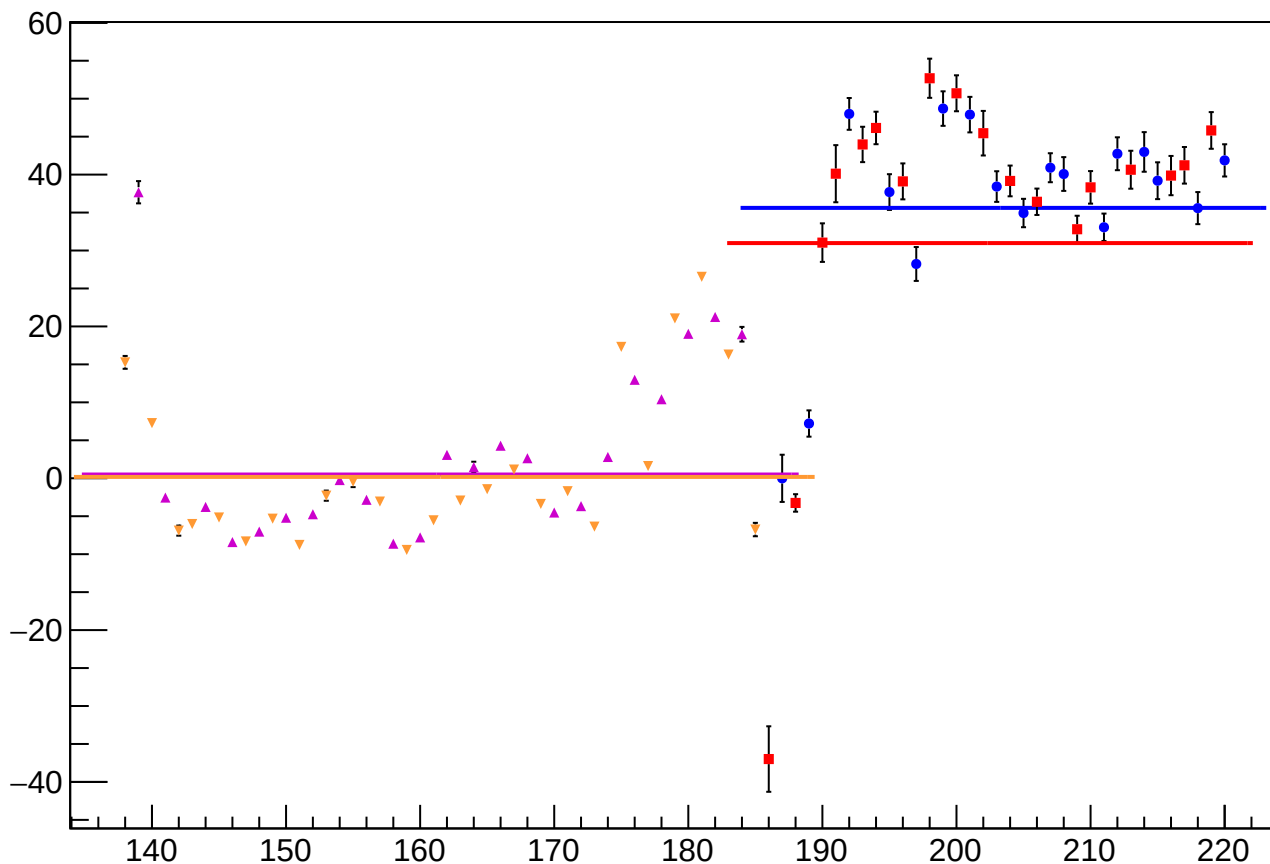
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.632 ± 0.337 χ^2/NDF : 895.4/16
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.484 ± 0.343 χ^2/NDF : 2040.6/17
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -8.575 ± 0.241 χ^2/NDF : 2956.0/34
 In: -22.476 ± 0.131 χ^2/NDF : 17410.7/39
 Out: -22.318 ± 0.129 χ^2/NDF : 22540.0/42
 All: -22.395 ± 0.092 χ^2/NDF : 39951.4/82

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.616 $\pm$ 0.519 χ^2 /NDF: 552.9/16

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF: 8295.6/24

Right Out: 30.979 $\pm$ 0.512 χ^2 /NDF: 1515.2/17

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

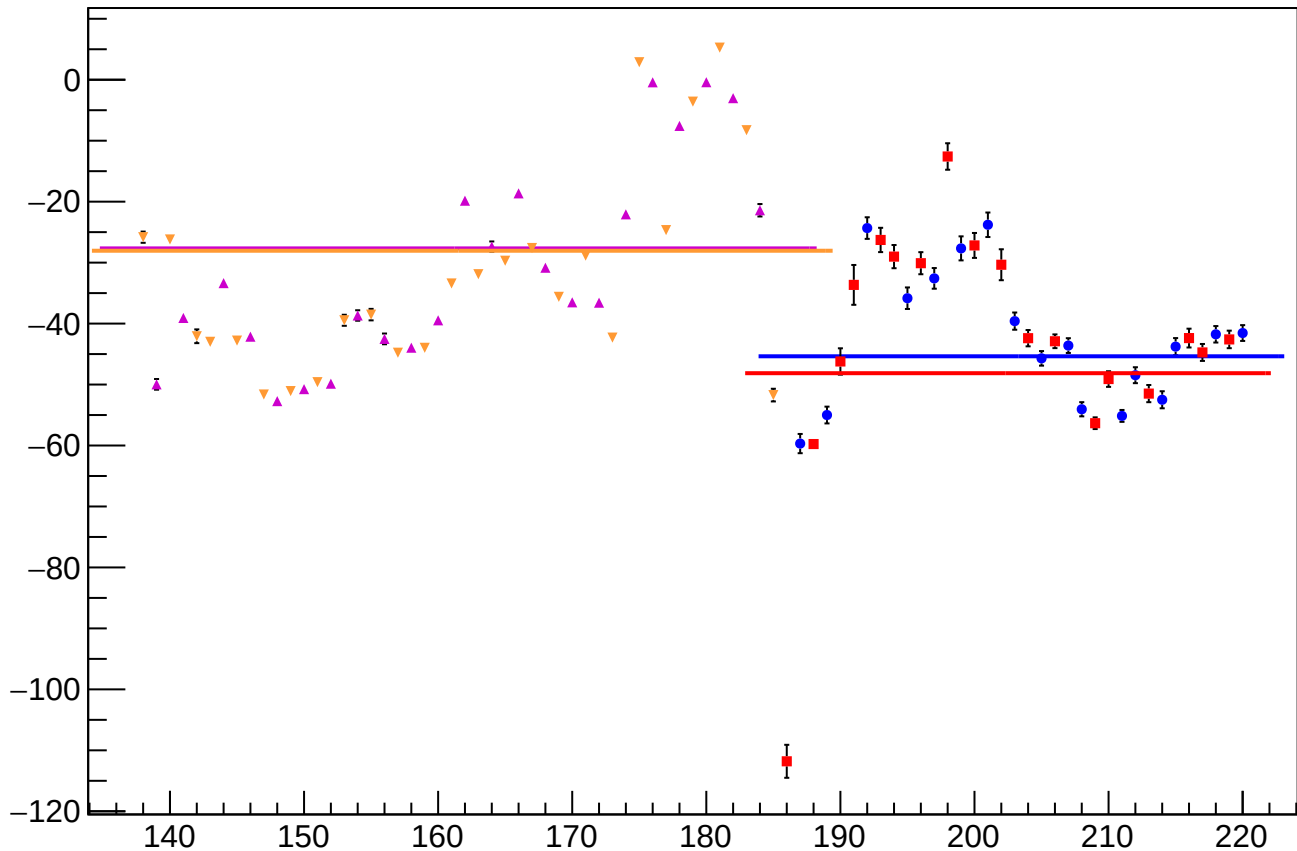
Right: 33.265 $\pm$ 0.364 χ^2 /NDF: 2108.6/34

In: 2.060 $\pm$ 0.110 χ^2 /NDF: 11484.9/39

Out: 1.503 $\pm$ 0.106 χ^2 /NDF: 13278.4/42

All: 1.773 $\pm$ 0.076 χ^2 /NDF: 24776.6/82

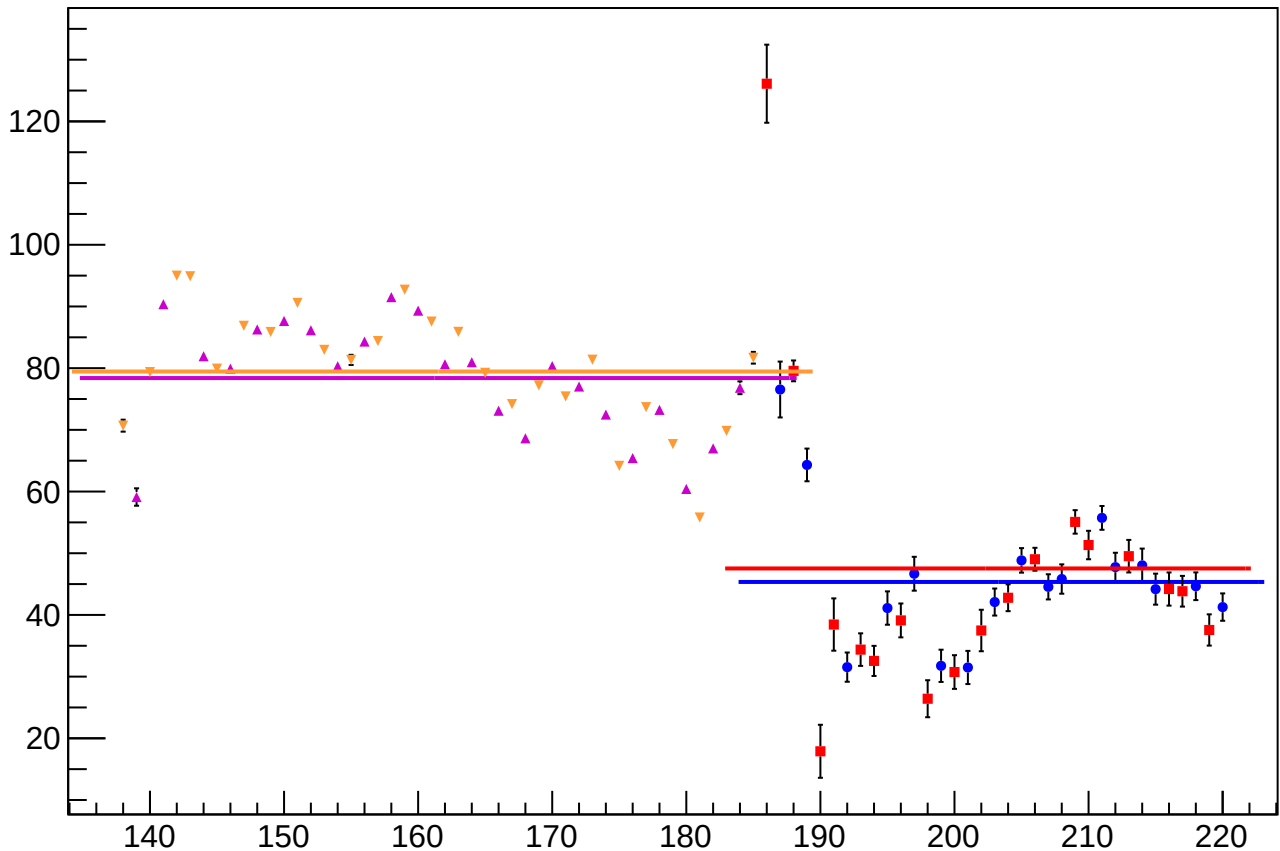
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.364 ± 0.336 $\chi^2/\text{NDF}: 778.1/16$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -48.137 ± 0.329 $\chi^2/\text{NDF}: 1793.0/17$
 Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$
 Right: -46.780 ± 0.235 $\chi^2/\text{NDF}: 2605.9/34$
 In: -30.361 ± 0.131 $\chi^2/\text{NDF}: 18131.7/39$
 Out: -31.125 ± 0.129 $\chi^2/\text{NDF}: 22094.3/42$
 All: -30.750 ± 0.092 $\chi^2/\text{NDF}: 40243.3/82$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.345+/-0.582 χ^2/NDF : 229.2/16

Left Out: 79.456+/-0.123 χ^2/NDF : 6077.1/24

Right Out: 47.532+/-0.595 χ^2/NDF : 779.0/17

Left In: 78.396+/-0.127 χ^2/NDF : 4707.3/22

Left: 78.941+/-0.088 χ^2/NDF : 10820.4/47

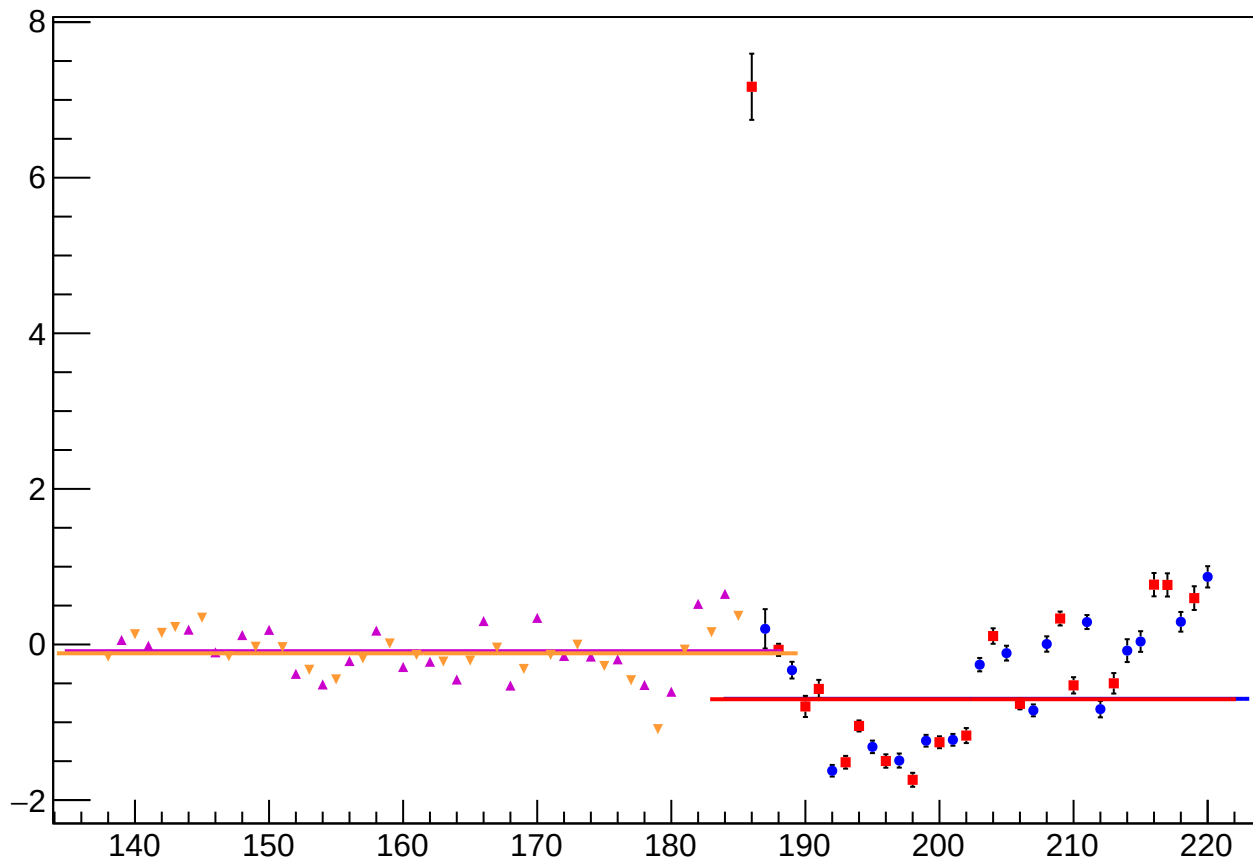
Right: 46.416+/-0.416 χ^2/NDF : 1015.1/34

In: 76.901+/-0.124 χ^2/NDF : 8013.0/39

Out: 78.142+/-0.121 χ^2/NDF : 9620.2/42

All: 77.538+/-0.086 χ^2/NDF : 17684.7/82

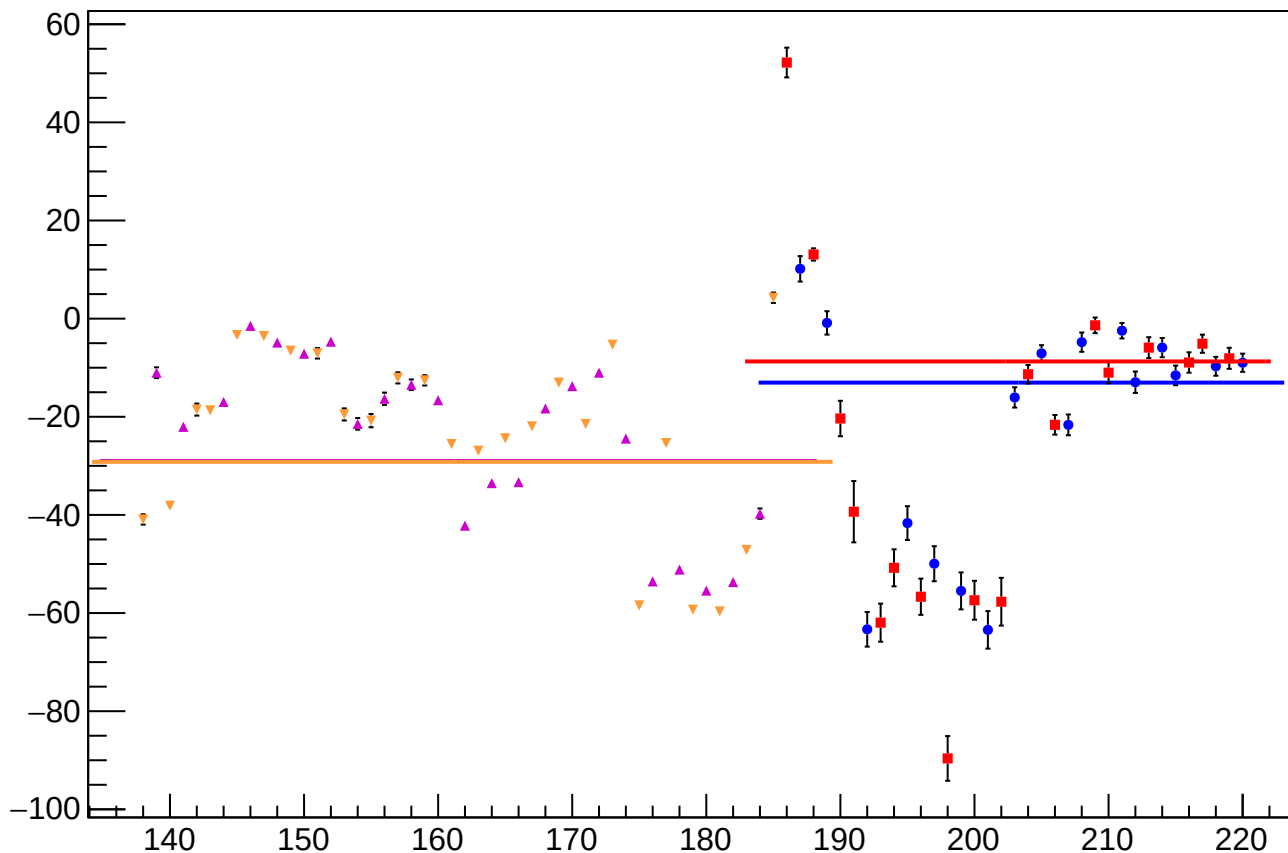
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.698 ± 0.023 χ^2/NDF : 892.7/16
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.704 ± 0.023 χ^2/NDF : 1298.5/17
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.701 ± 0.016 χ^2/NDF : 2191.2/34
 In: -0.122 ± 0.006 χ^2/NDF : 4679.2/39
 Out: -0.147 ± 0.006 χ^2/NDF : 4222.0/42
 All: -0.135 ± 0.004 χ^2/NDF : 8911.4/82

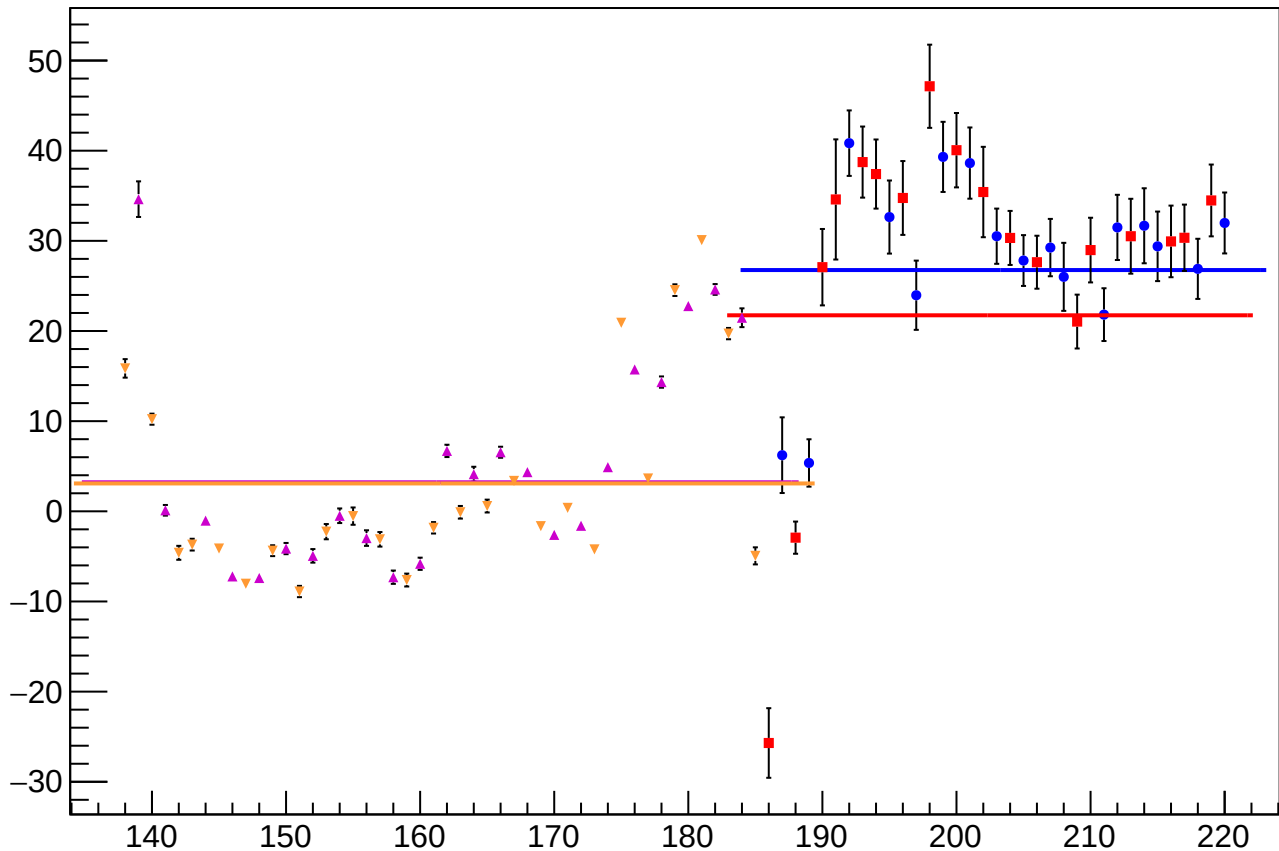
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.035 ± 0.538 χ^2/NDF : 899.8/16
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -8.723 ± 0.549 χ^2/NDF : 1861.7/17
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -10.924 ± 0.384 χ^2/NDF : 2793.0/34
 In: -27.707 ± 0.153 χ^2/NDF : 15127.0/39
 Out: -27.638 ± 0.151 χ^2/NDF : 20057.8/42
 All: -27.672 ± 0.107 χ^2/NDF : 35184.9/82

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.761 $\pm$ 0.835 χ^2 /NDF: 138.5/16

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 21.742 $\pm$ 0.824 χ^2 /NDF: 490.8/17

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF:6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

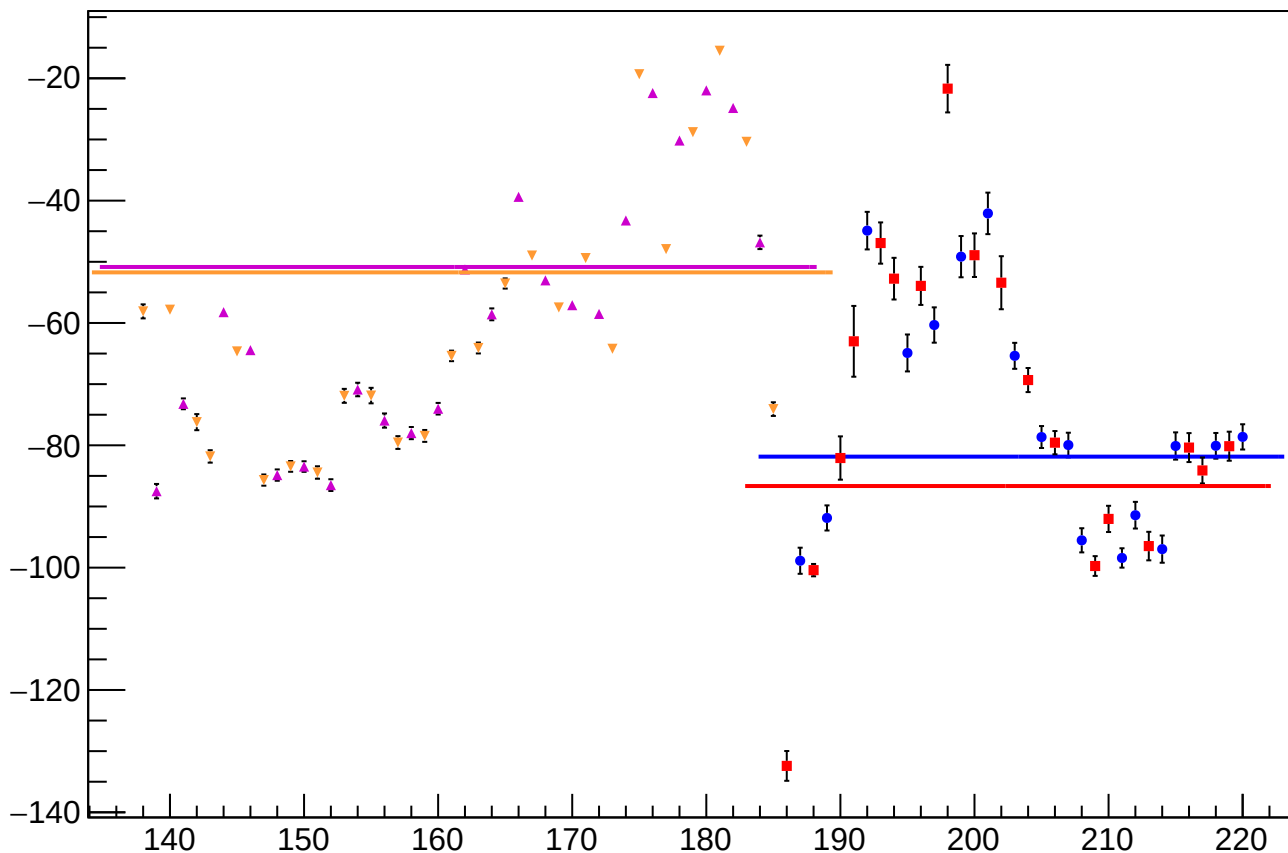
Right: 24.218 $\pm$ 0.587 χ^2 /NDF: 647.6/34

In: 3.753 $\pm$ 0.125 χ^2 /NDF:7152.6/39

Out: 3.506 $\pm$ 0.123 χ^2 /NDF:9075.6/42

All: 3.627 $\pm$ 0.088 χ^2 /NDF: 16230.1/82

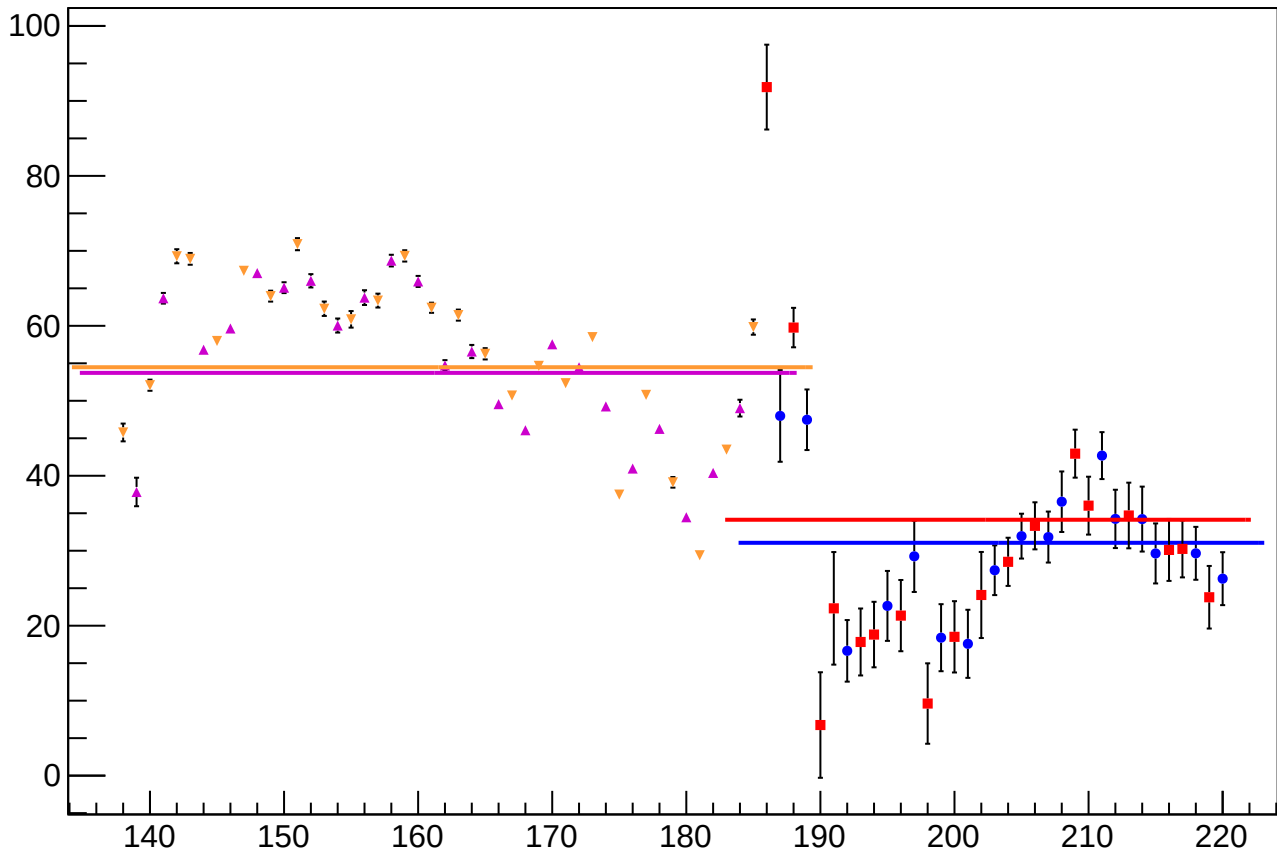
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.852 ± 0.536 χ^2/NDF : 841.5/16
 Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24
 Right Out: -86.657 ± 0.525 χ^2/NDF : 1552.3/17
 Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47
 Right: -84.306 ± 0.375 χ^2/NDF : 2434.8/34
 In: -53.381 ± 0.153 χ^2/NDF : 21182.5/39
 Out: -54.628 ± 0.151 χ^2/NDF : 25151.2/42
 All: -54.014 ± 0.108 χ^2/NDF : 46367.2/82

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.058 $\pm$ 0.940 χ^2 /NDF: 77.0/16

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.132 $\pm$ 0.967 χ^2 /NDF: 303.1/17

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

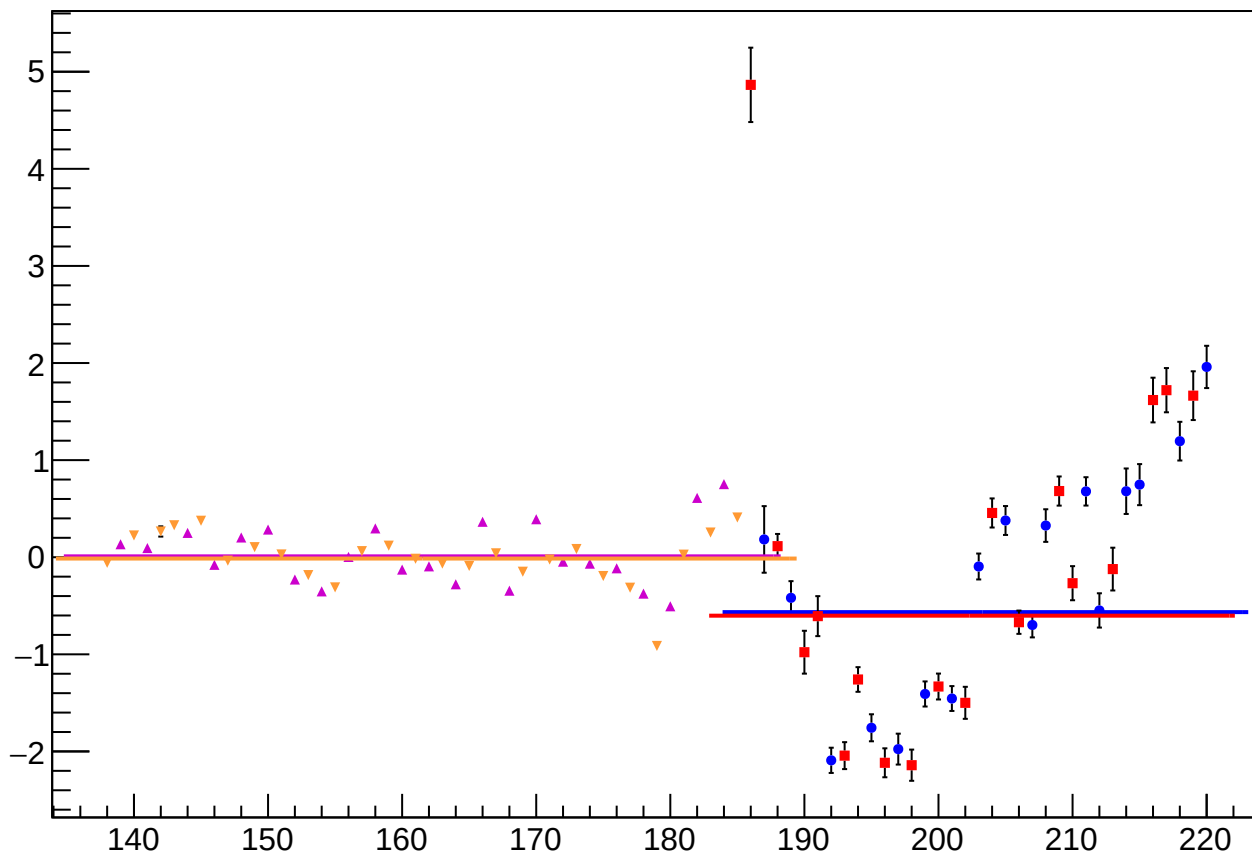
Right: 32.553 $\pm$ 0.674 χ^2 /NDF: 385.3/34

In: 53.211 $\pm$ 0.141 χ^2 /NDF: 5230.5/39

Out: 54.057 $\pm$ 0.139 χ^2 /NDF: 7003.8/42

All: 53.642 $\pm$ 0.099 χ^2 /NDF: 12252.5/82

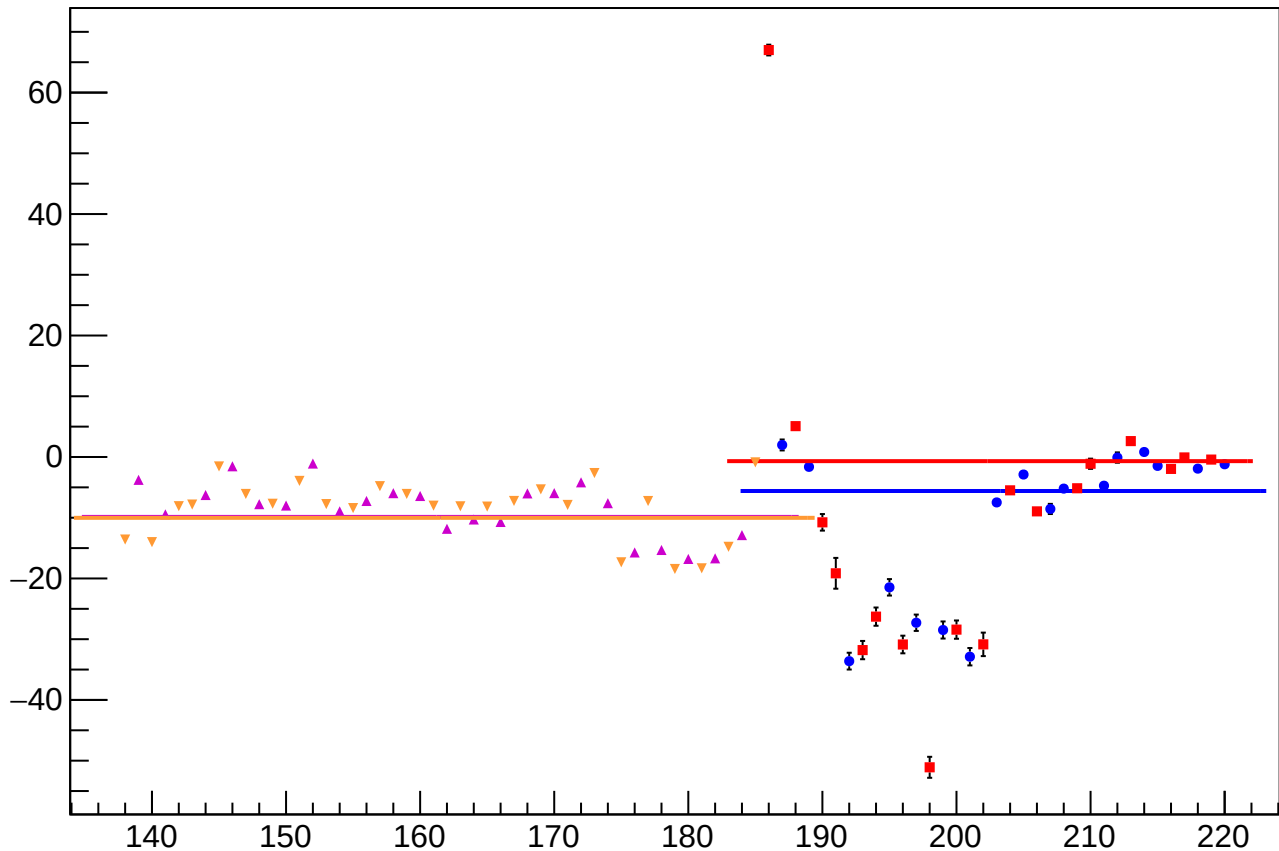
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.565±/0.038 χ^2/NDF : 820.0/16
 Left Out: -0.014±/0.006 χ^2/NDF :1654.7/24
 Right Out: -0.602±/0.039 χ^2/NDF : 1038.5/17
 Left In: 0.009±/0.007 χ^2/NDF :2220.5/22

Left: -0.003±/0.005 χ^2/NDF : 3881.4/47
 Right: -0.584±/0.027 χ^2/NDF : 1858.9/34
 In: -0.007±/0.006 χ^2/NDF :3257.7/39
 Out: -0.030±/0.006 χ^2/NDF :2919.0/42
 All: -0.019±/0.005 χ^2/NDF : 6182.8/82

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.599 ± 0.203 $\chi^2/\text{NDF}: 1780.4/16$

Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$

Right Out: -0.684 ± 0.205 $\chi^2/\text{NDF}: 8936.9/17$

Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$

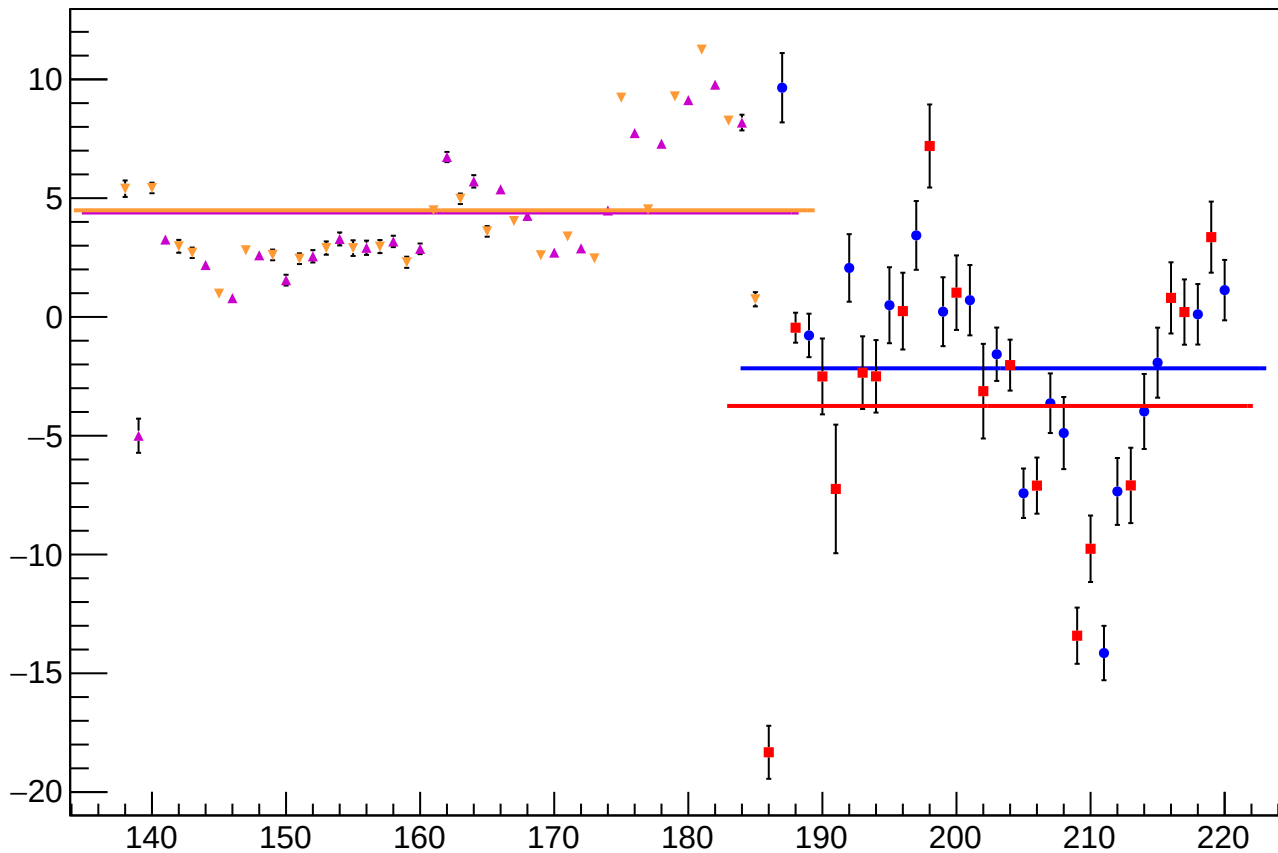
Right: -3.160 ± 0.144 $\chi^2/\text{NDF}: 11007.9/34$

In: -9.609 ± 0.050 $\chi^2/\text{NDF}: 11540.4/39$

Out: -9.478 ± 0.049 $\chi^2/\text{NDF}: 23449.6/42$

All: -9.543 ± 0.035 $\chi^2/\text{NDF}: 34993.5/82$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.162 ± 0.315 χ^2/NDF : 265.4/16

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -3.746 ± 0.306 χ^2/NDF : 396.7/17

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

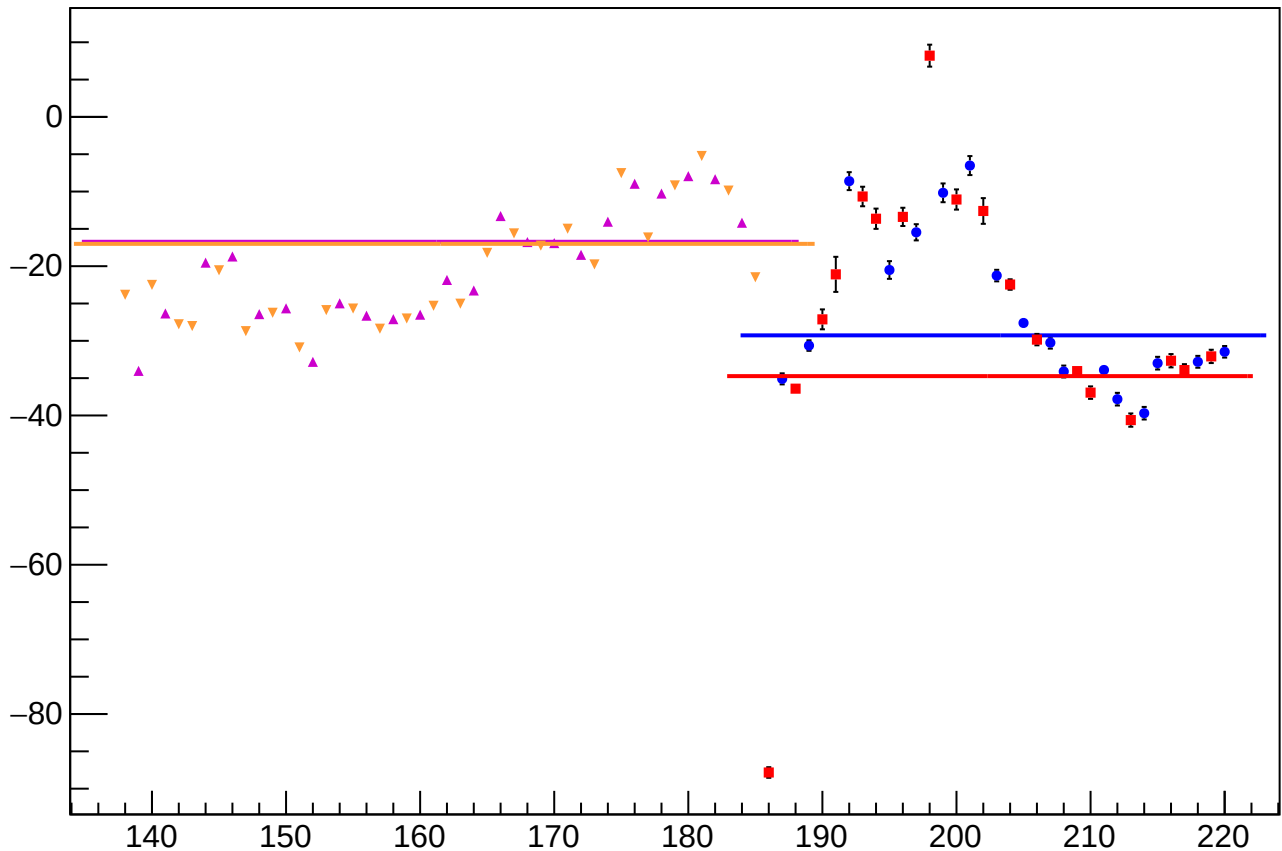
Right: -2.977 ± 0.219 χ^2/NDF : 675.1/34

In: 4.285 ± 0.041 χ^2/NDF : 4923.1/39

Out: 4.345 ± 0.040 χ^2/NDF : 5942.0/42

All: 4.316 ± 0.029 χ^2/NDF : 10866.2/82

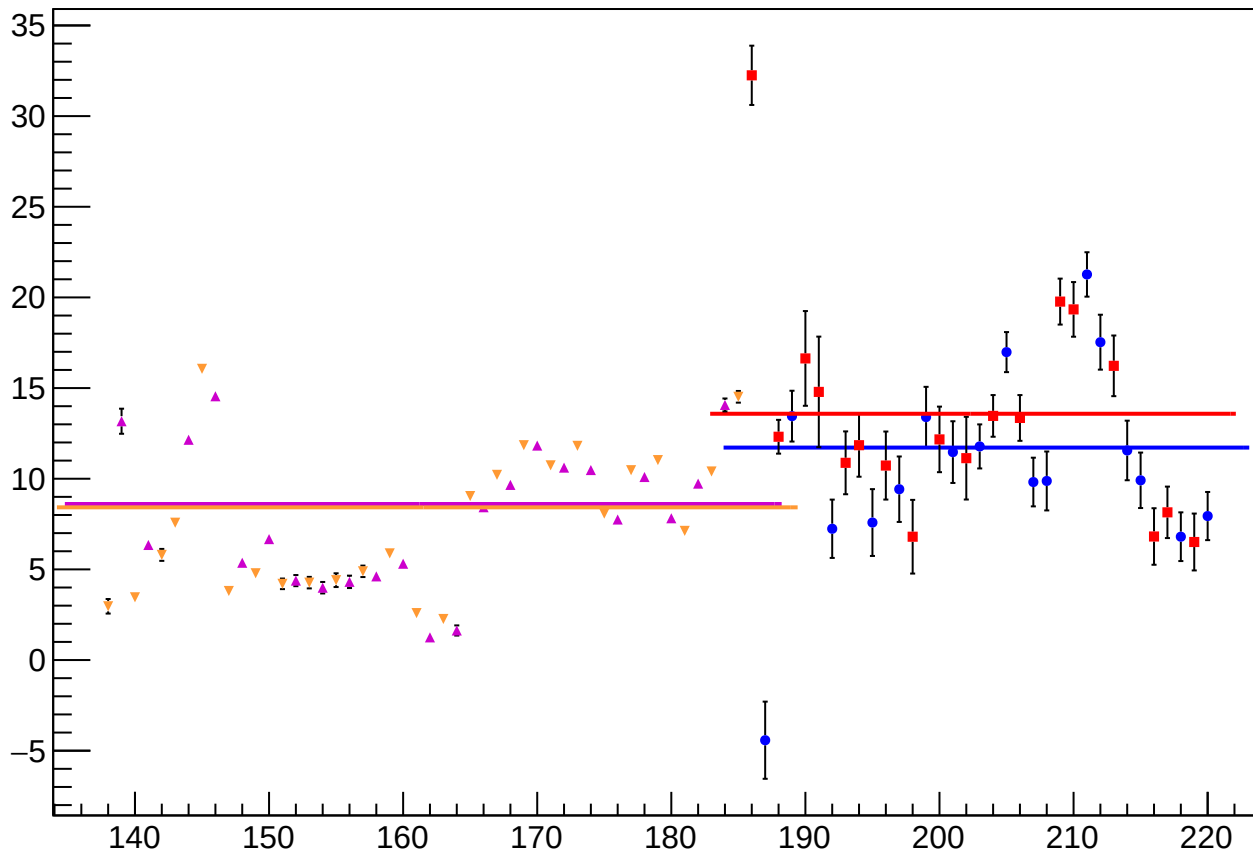
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.268 ± 0.202 $\chi^2/\text{NDF}: 1636.9/16$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.729 ± 0.194 $\chi^2/\text{NDF}: 8284.3/17$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$
 Right: -32.111 ± 0.140 $\chi^2/\text{NDF}: 10300.9/34$
 In: -17.496 ± 0.050 $\chi^2/\text{NDF}: 24021.9/39$
 Out: -18.156 ± 0.049 $\chi^2/\text{NDF}: 38179.7/42$
 All: -17.830 ± 0.035 $\chi^2/\text{NDF}: 62290.0/82$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.718 $\pm$ 0.356 χ^2 /NDF: 198.9/16

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 13.583 $\pm$ 0.363 χ^2 /NDF: 247.1/17

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

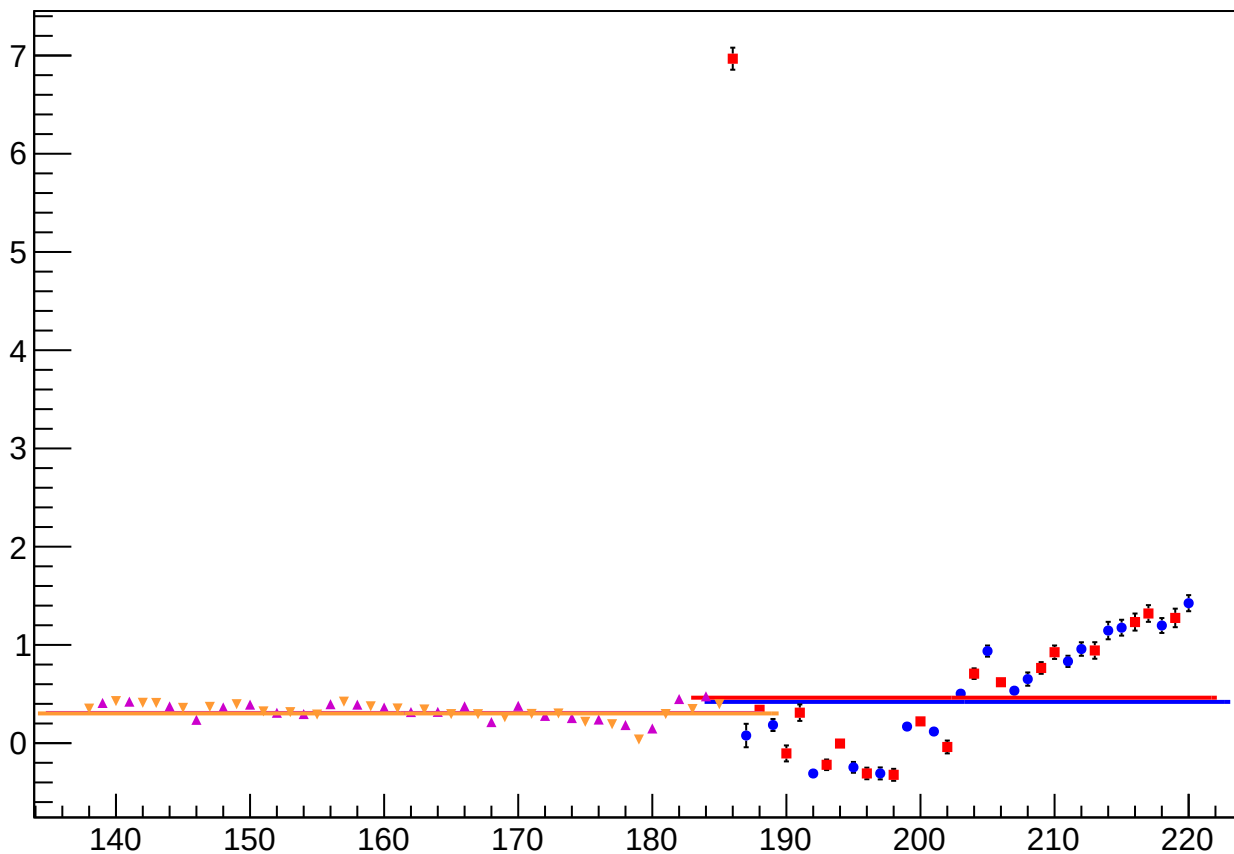
Right: 12.633 $\pm$ 0.254 χ^2 /NDF: 459.5/34

In: 8.658 $\pm$ 0.046 χ^2 /NDF: 5778.1/39

Out: 8.502 $\pm$ 0.045 χ^2 /NDF: 6916.3/42

All: 8.579 $\pm$ 0.032 χ^2 /NDF: 12700.3/82

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.420+/-0.015 χ^2/NDF : 1209.9/16

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.463+/-0.015 χ^2/NDF : 4476.1/17

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

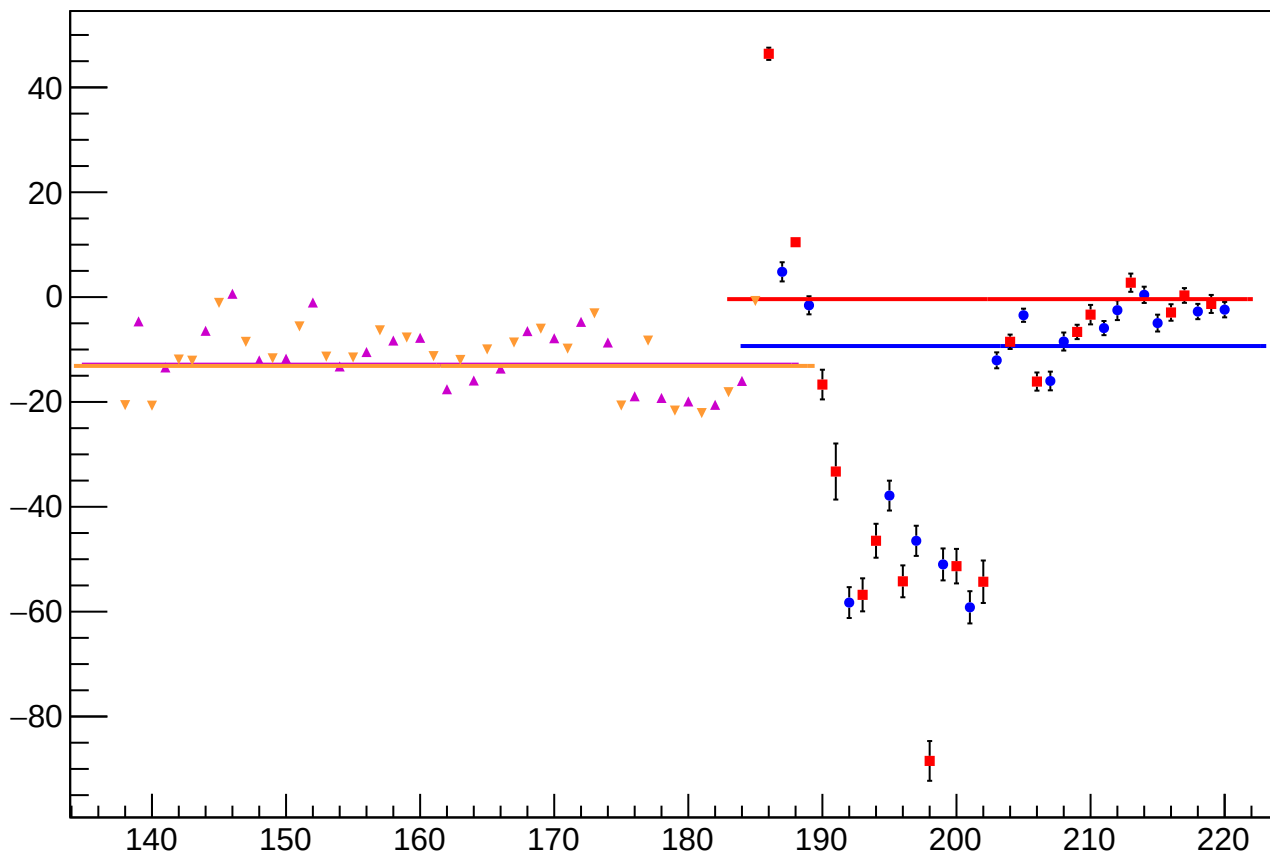
Right: 0.441+/-0.010 χ^2/NDF : 5690.2/34

In: 0.310+/-0.002 χ^2/NDF :2967.1/39

Out: 0.306+/-0.002 χ^2/NDF :6182.4/42

All: 0.308+/-0.001 χ^2/NDF : 9151.3/82

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected

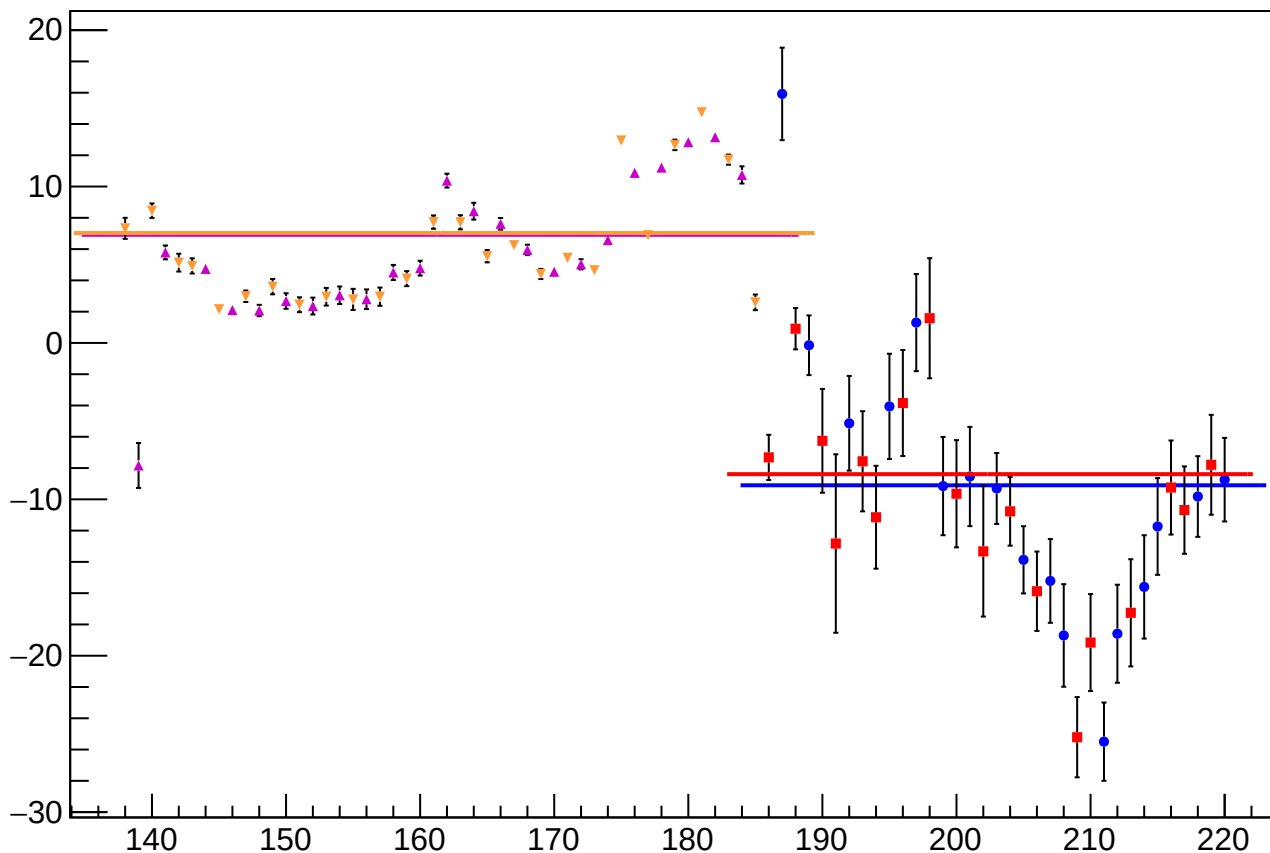


Right In: -9.334 ± 0.427 $\chi^2/\text{NDF}: 1221.7/16$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: -0.387 ± 0.414 $\chi^2/\text{NDF}: 3755.8/17$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$
 Right: -4.722 ± 0.297 $\chi^2/\text{NDF}: 5203.9/34$
 In: -12.717 ± 0.093 $\chi^2/\text{NDF}: 6063.8/39$
 Out: -12.504 ± 0.091 $\chi^2/\text{NDF}: 10634.6/42$

All: -12.609 ± 0.065 $\chi^2/\text{NDF}: 16701.1/82$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.102 ± 0.662 χ^2/NDF : 184.4/16

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.390 ± 0.608 χ^2/NDF : 134.5/17

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

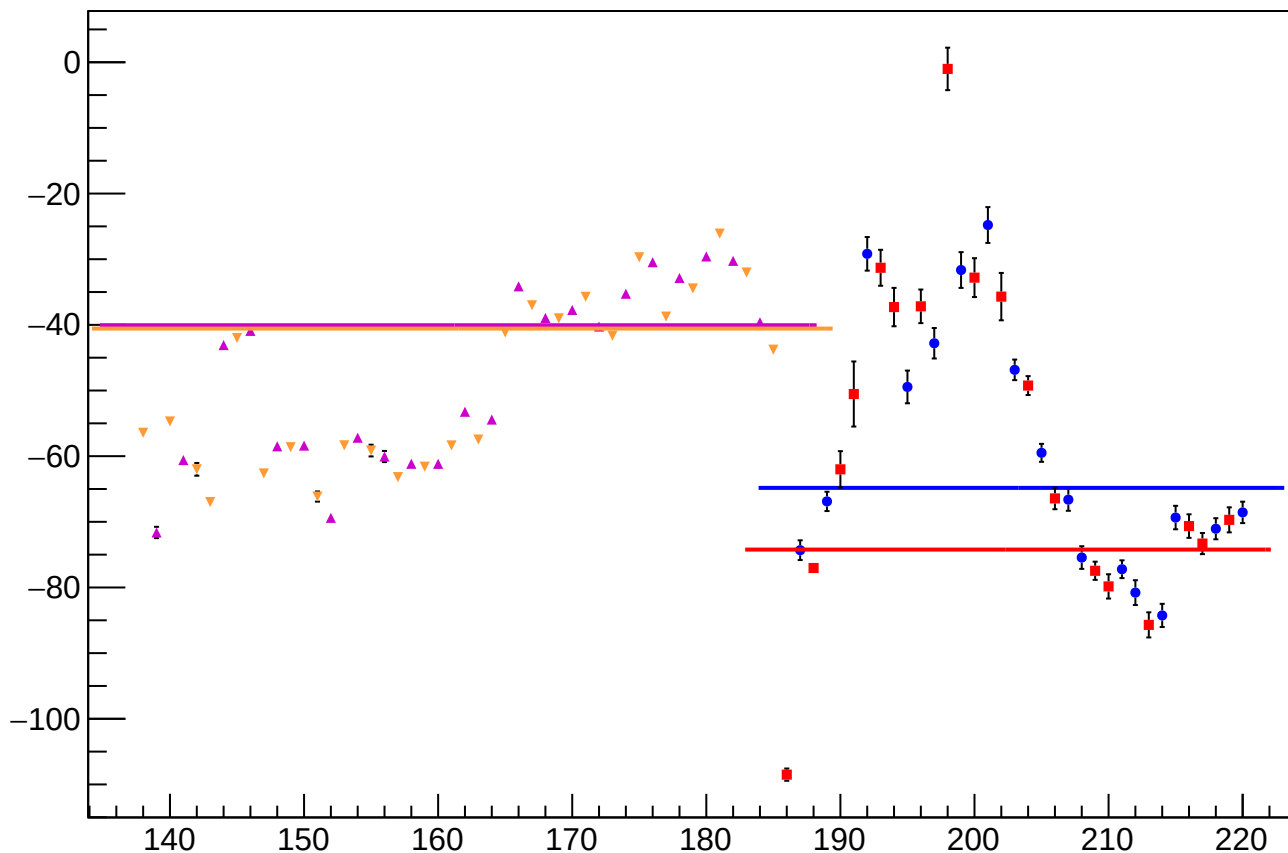
Right: -8.716 ± 0.448 χ^2/NDF : 319.5/34

In: 6.696 ± 0.077 χ^2/NDF : 3190.0/39

Out: 6.783 ± 0.077 χ^2/NDF : 3432.0/42

All: 6.740 ± 0.054 χ^2/NDF : 6622.7/82

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.829 ± 0.426 χ^2/NDF : 1216.7/16

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.228 ± 0.387 χ^2/NDF : 3219.0/17

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

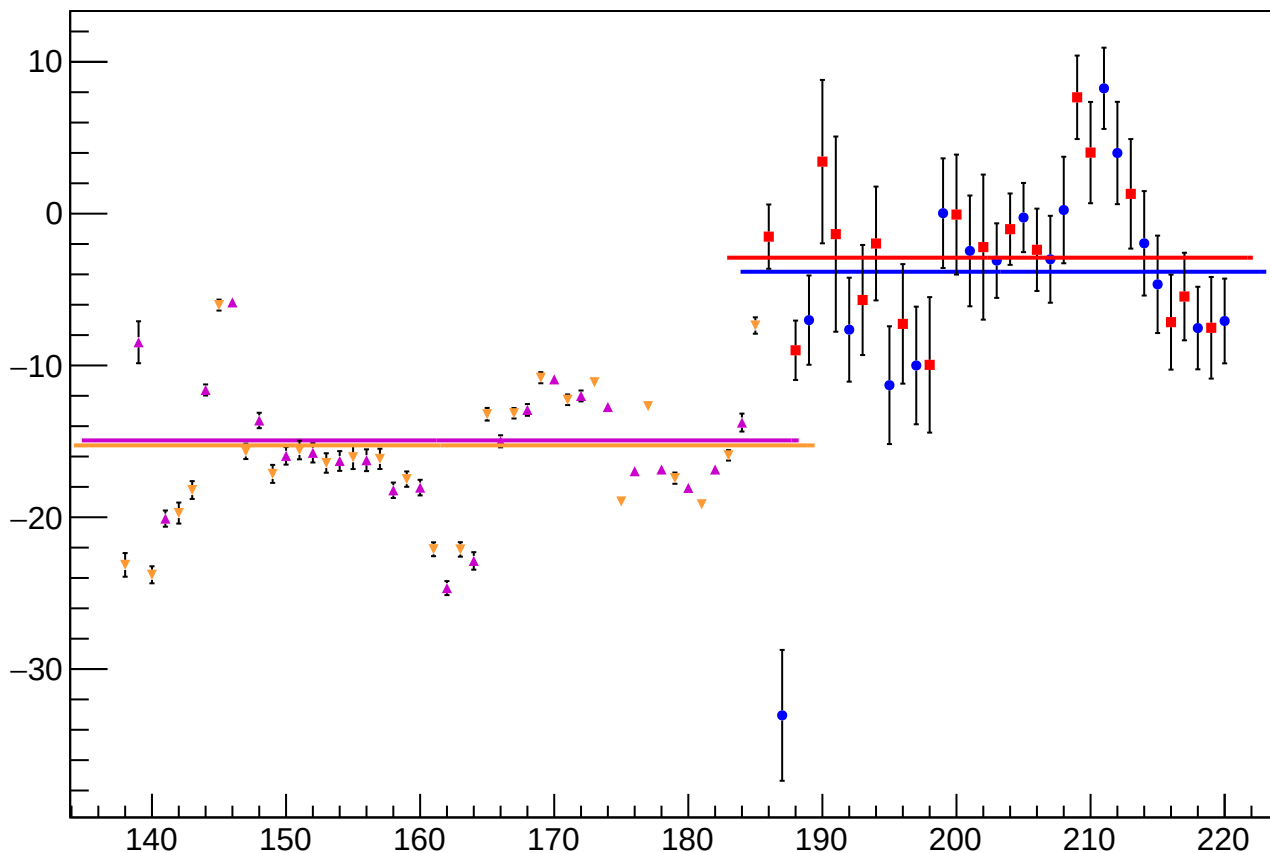
Right: -69.975 ± 0.286 χ^2/NDF : 4702.8/34

In: -41.245 ± 0.093 χ^2/NDF : 18370.6/39

Out: -42.467 ± 0.092 χ^2/NDF : 26000.5/42

All: -41.865 ± 0.066 χ^2/NDF : 44458.1/82

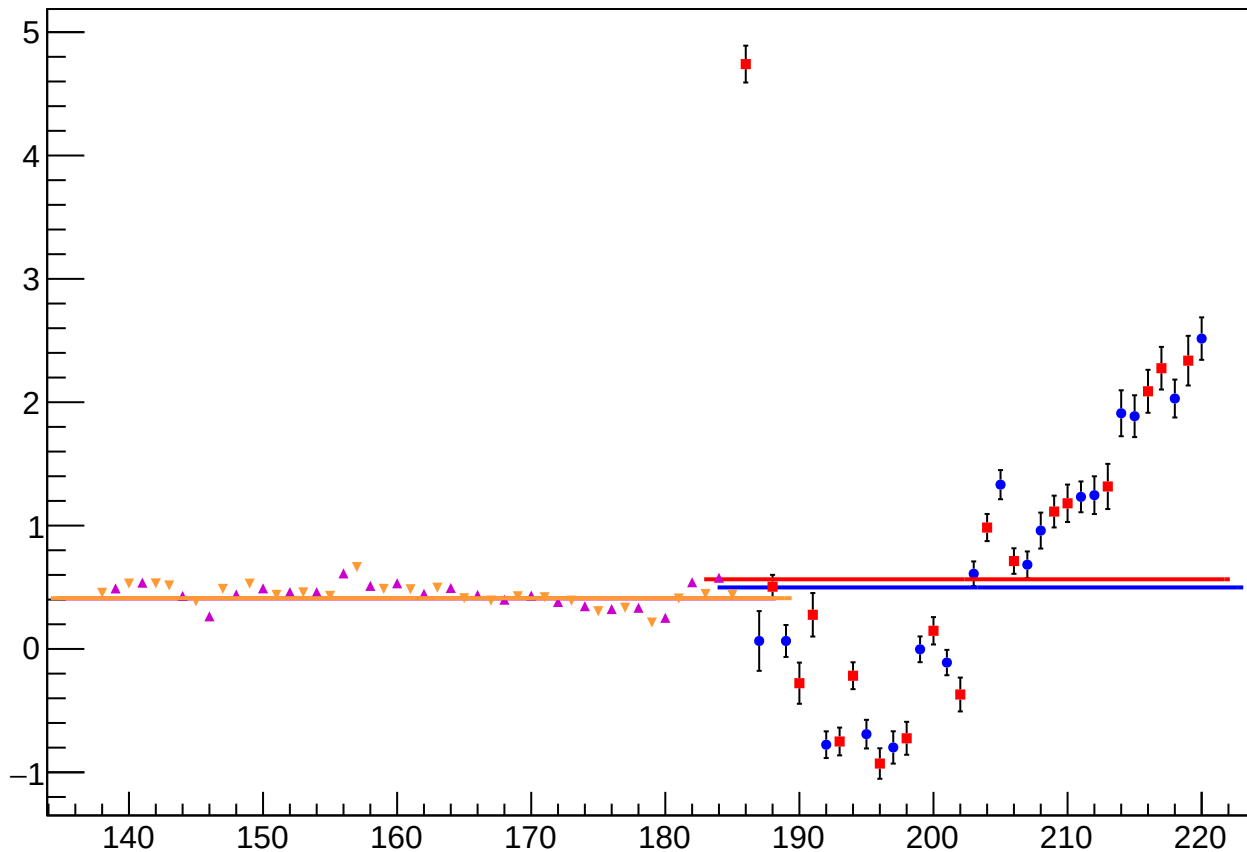
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.827 ± 0.751 χ^2/NDF : 89.2/16
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -2.901 ± 0.737 χ^2/NDF : 42.2/17
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -3.355 ± 0.526 χ^2/NDF : 132.1/34
 In: -14.790 ± 0.086 χ^2/NDF : 2505.0/39
 Out: -15.100 ± 0.085 χ^2/NDF : 2915.2/42
 All: -14.946 ± 0.061 χ^2/NDF : 5426.7/82

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.499 ± 0.031 χ^2/NDF : 897.7/16

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.565 ± 0.031 χ^2/NDF : 1617.7/17

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

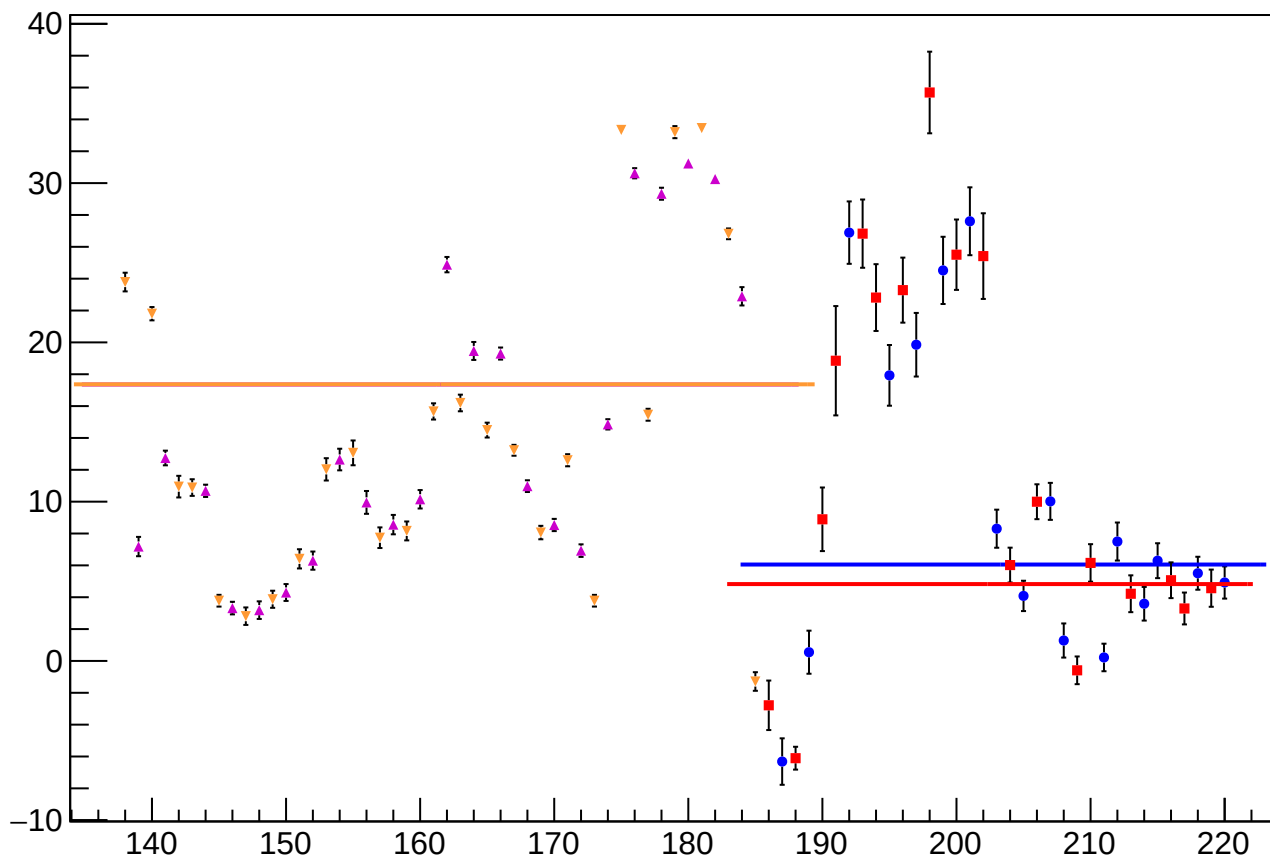
Right: 0.532 ± 0.022 χ^2/NDF : 2517.7/34

In: 0.411 ± 0.004 χ^2/NDF : 1463.7/39

Out: 0.414 ± 0.004 χ^2/NDF : 2070.4/42

All: 0.412 ± 0.003 χ^2/NDF : 3534.4/82

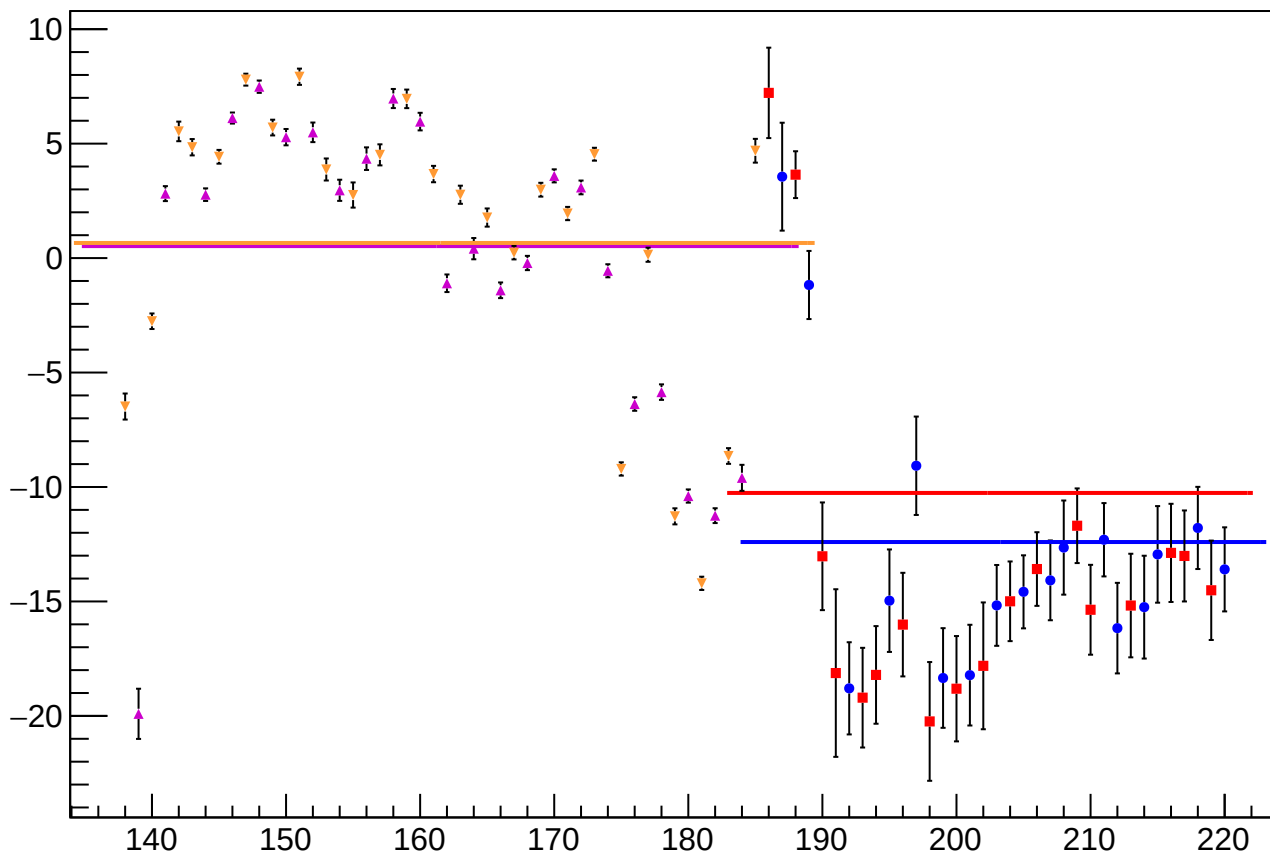
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.053 ± 0.297 $\chi^2/\text{NDF}: 560.5/16$
 Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$
 Right Out: 4.826 ± 0.303 $\chi^2/\text{NDF}: 895.6/17$
 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: 5.452 ± 0.212 $\chi^2/\text{NDF}: 1464.4/34$
 In: 16.425 ± 0.085 $\chi^2/\text{NDF}: 14635.7/39$
 Out: 16.412 ± 0.084 $\chi^2/\text{NDF}: 18812.3/42$
 All: 16.419 ± 0.060 $\chi^2/\text{NDF}: 33448.1/82$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.404 ± 0.463 χ^2/NDF : 142.1/16

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.260 ± 0.457 χ^2/NDF : 373.5/17

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

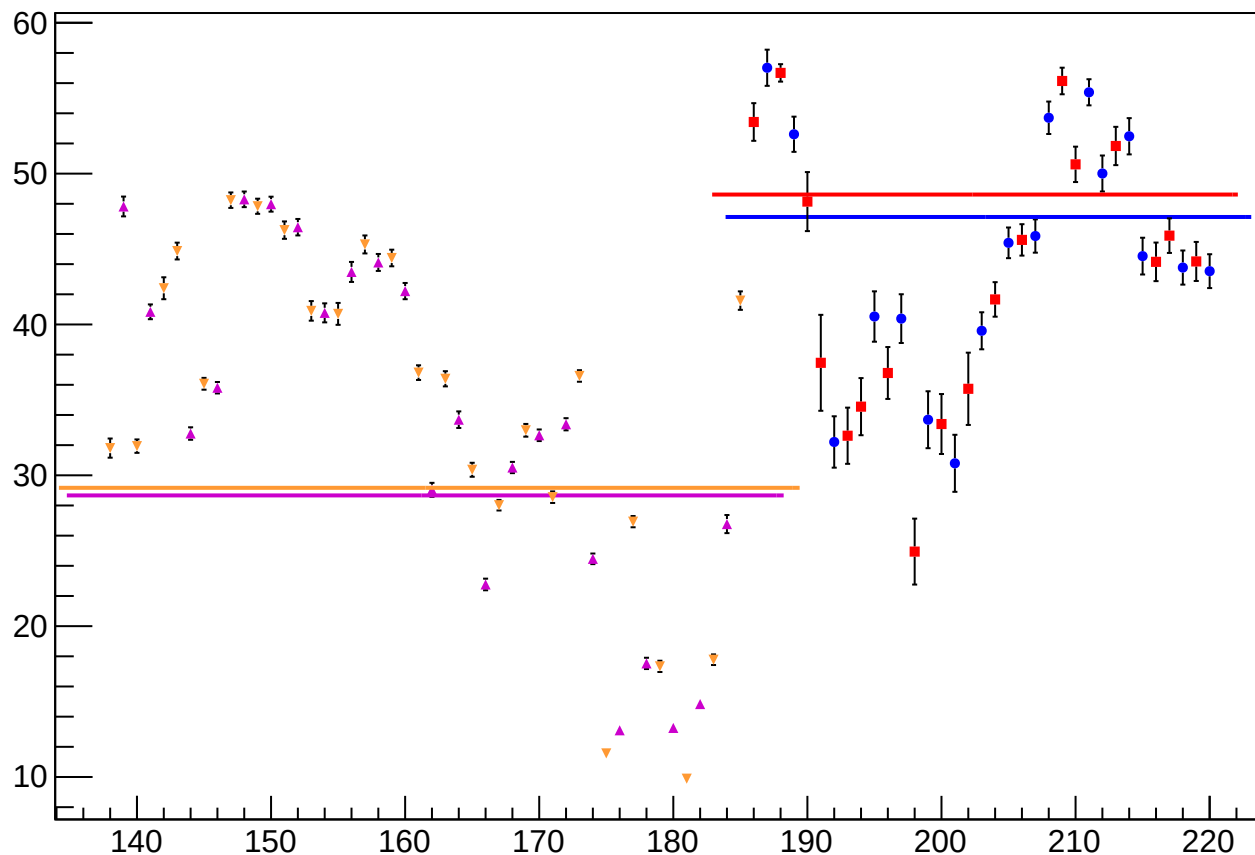
Right: -11.318 ± 0.325 χ^2/NDF : 526.5/34

In: 0.228 ± 0.070 χ^2/NDF : 7633.9/39

Out: 0.415 ± 0.069 χ^2/NDF : 9486.0/42

All: 0.323 ± 0.049 χ^2/NDF : 17123.4/82

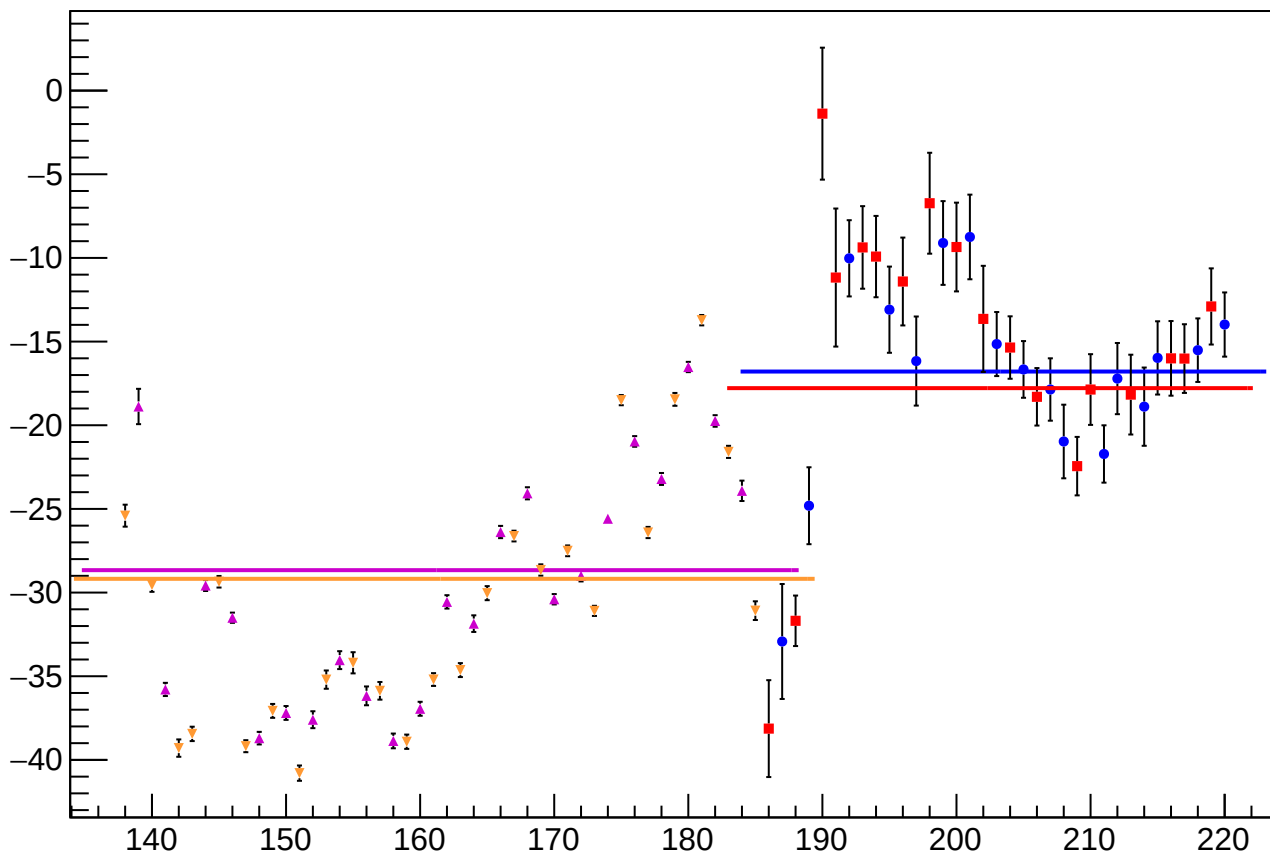
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.126 $\pm$ 0.297 χ^2 /NDF: 544.9/16
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 48.613 $\pm$ 0.291 χ^2 /NDF: 759.5/17
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 47.884 $\pm$ 0.208 χ^2 /NDF: 1317.2/34
 In: 30.196 $\pm$ 0.085 χ^2 /NDF:20945.7/39
 Out: 30.794 $\pm$ 0.084 χ^2 /NDF:23829.7/42
 All: 30.500 $\pm$ 0.060 χ^2 /NDF: 44800.3/82

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



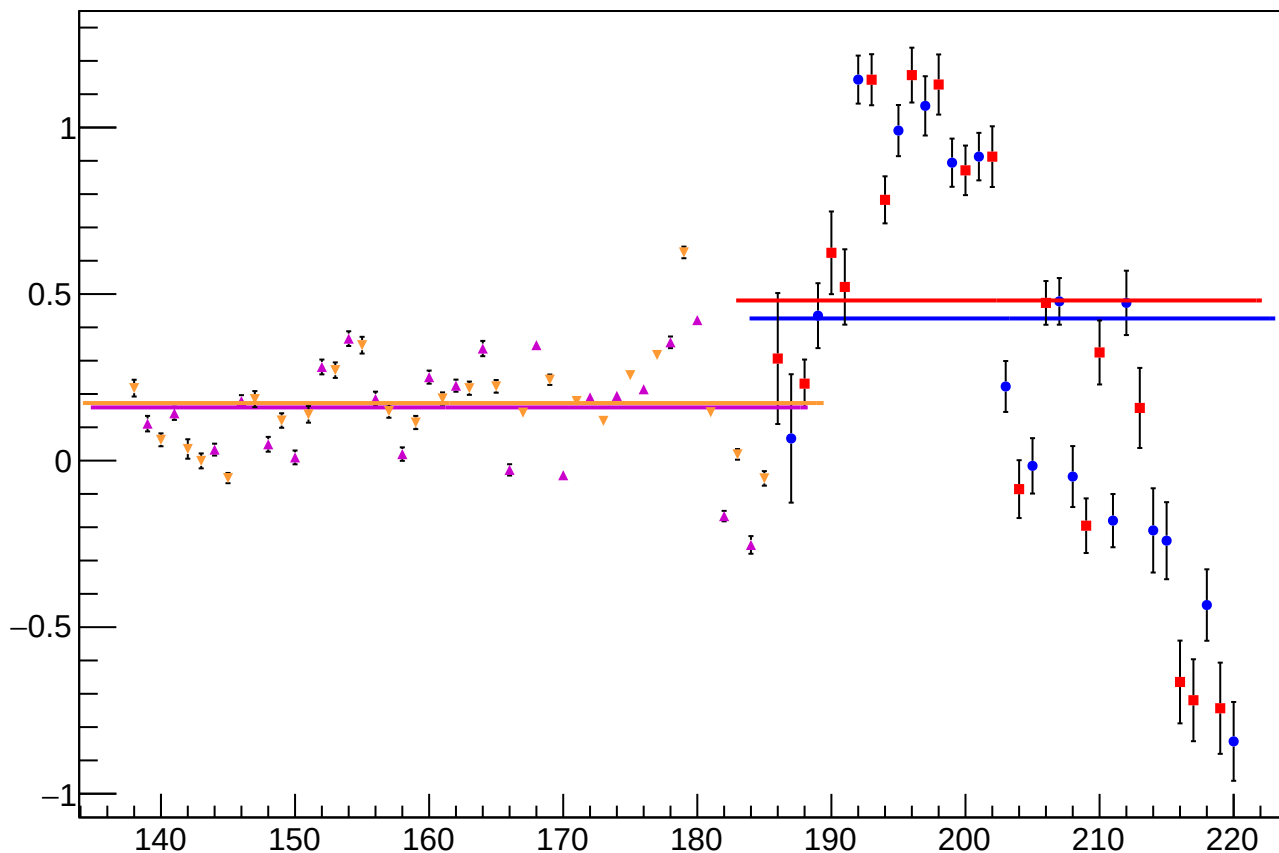
Right In: -16.790 ± 0.520 $\chi^2/\text{NDF}: 81.2/16$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -17.783 ± 0.535 $\chi^2/\text{NDF}: 222.3/17$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.273 ± 0.373 $\chi^2/\text{NDF}: 305.3/34$

In: -28.388 ± 0.079 $\chi^2/\text{NDF}: 7259.7/39$
 Out: -28.940 ± 0.077 $\chi^2/\text{NDF}: 9748.2/42$

All: -28.669 ± 0.055 $\chi^2/\text{NDF}: 17032.9/82$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.427 ± 0.021 χ^2/NDF : 655.1/16

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.481 ± 0.021 χ^2/NDF : 656.9/17

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

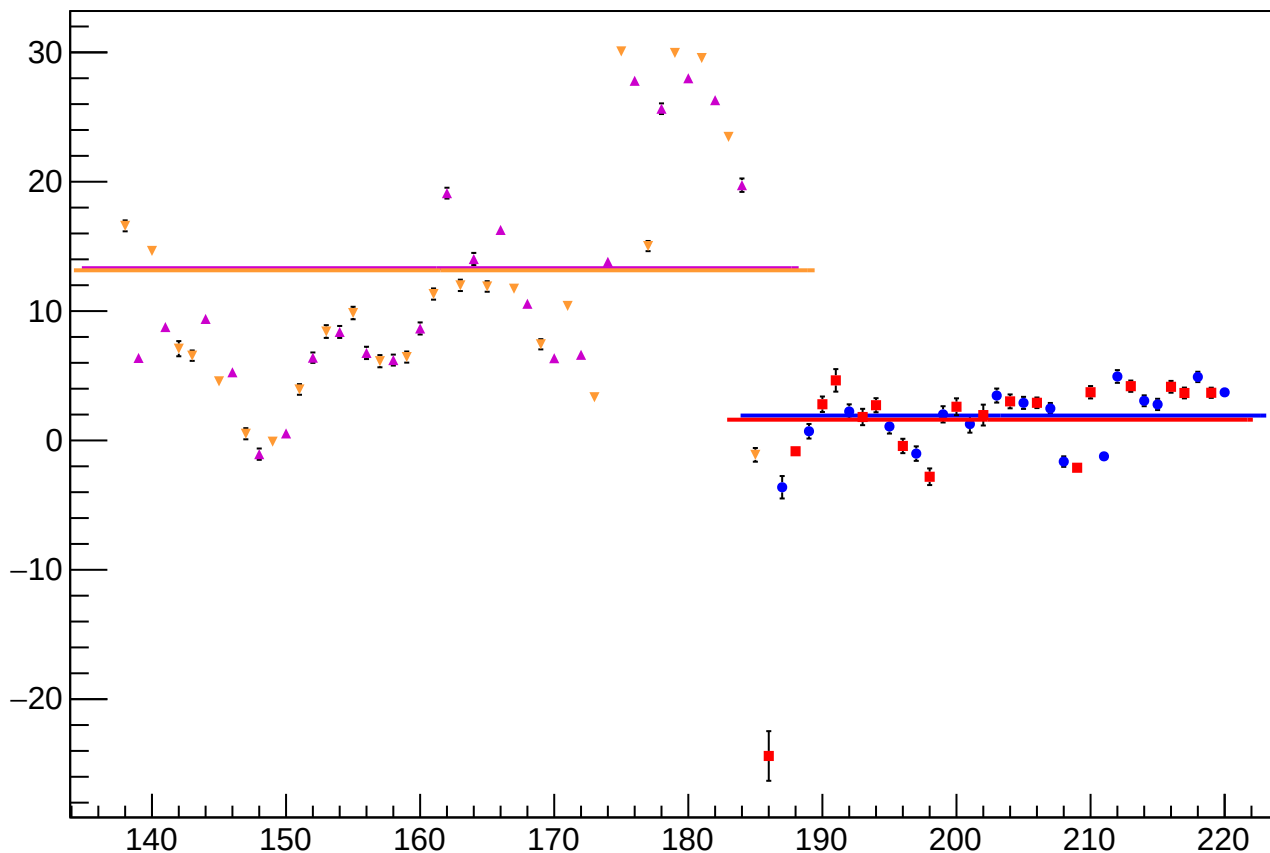
Right: 0.454 ± 0.015 χ^2/NDF : 1315.3/34

In: 0.167 ± 0.004 χ^2/NDF : 2866.0/39

Out: 0.181 ± 0.004 χ^2/NDF : 2336.2/42

All: 0.174 ± 0.003 χ^2/NDF : 5209.7/82

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.924 ± 0.117 χ^2/NDF : 361.3/16

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: 1.605 ± 0.114 χ^2/NDF : 618.7/17

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

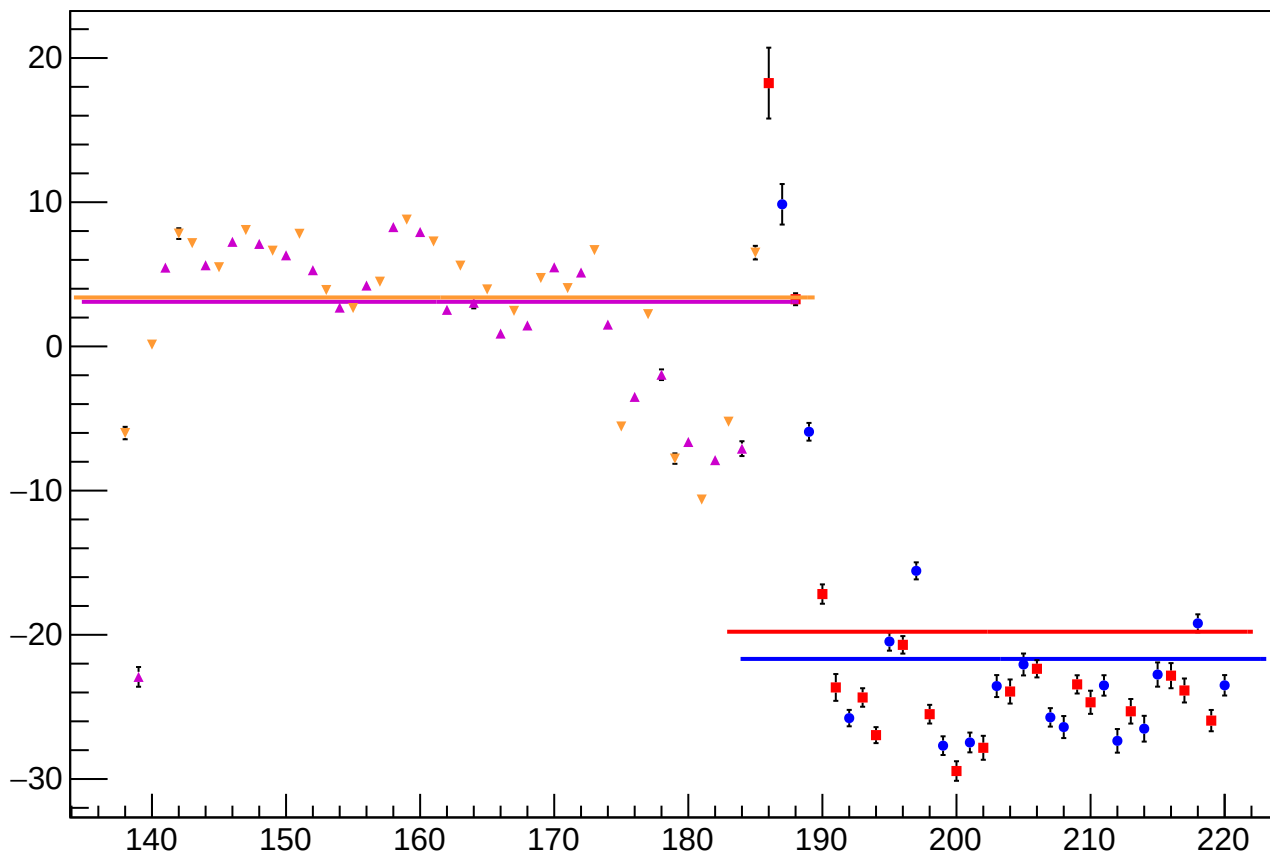
Right: 1.760 ± 0.081 χ^2/NDF : 983.8/34

In: 9.858 ± 0.064 χ^2/NDF : 20963.0/39

Out: 9.640 ± 0.063 χ^2/NDF : 24868.5/42

All: 9.746 ± 0.045 χ^2/NDF : 45837.3/82

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.672 ± 0.170 $\chi^2/\text{NDF}: 1674.1/16$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.787 ± 0.162 $\chi^2/\text{NDF}: 4224.9/17$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

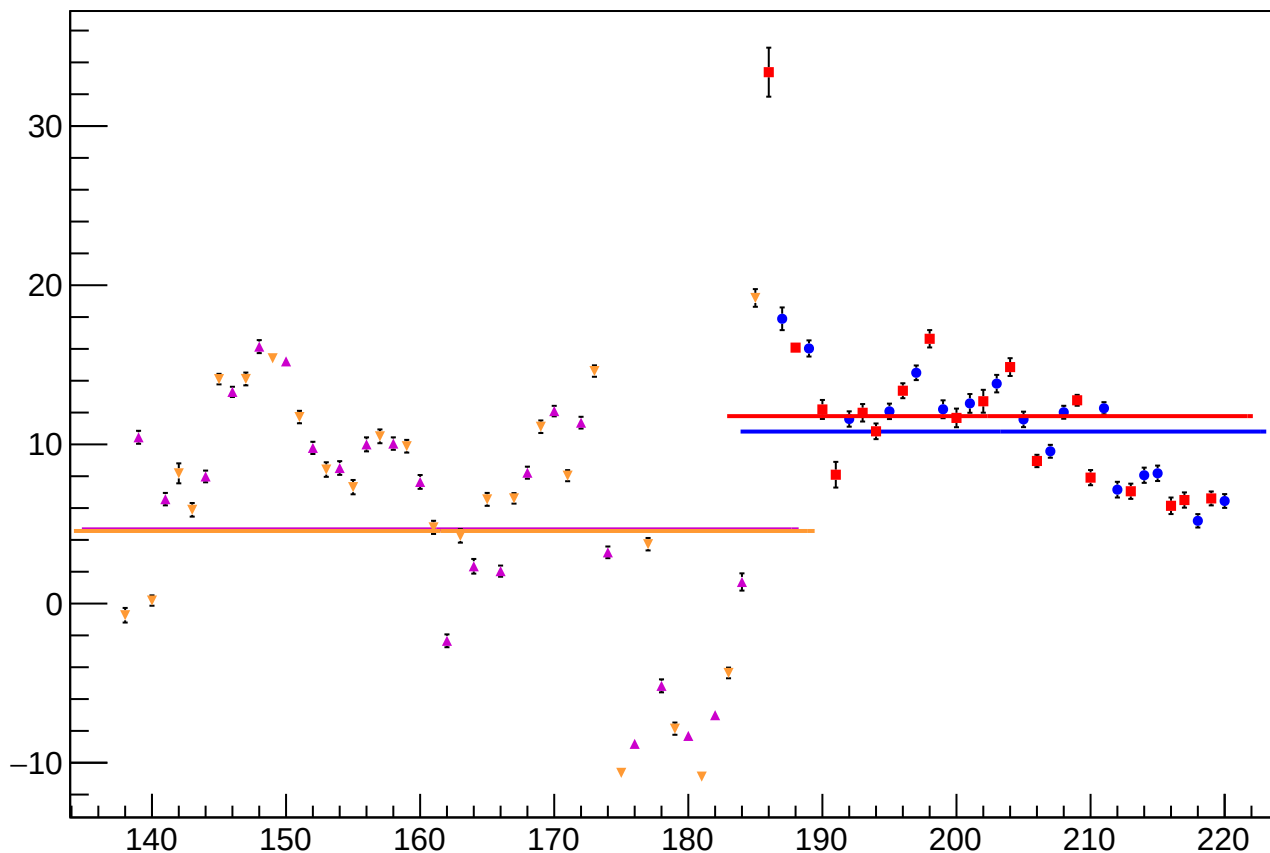
Right: -20.682 ± 0.117 $\chi^2/\text{NDF}: 5963.3/34$

In: 0.316 ± 0.057 $\chi^2/\text{NDF}: 27516.5/39$

Out: 0.735 ± 0.055 $\chi^2/\text{NDF}: 30425.0/42$

All: 0.534 ± 0.040 $\chi^2/\text{NDF}: 57969.4/82$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.807 ± 0.115 χ^2/NDF : 754.5/16

Left Out: 4.561 ± 0.075 χ^2/NDF : 13592.1/24

Right Out: 11.776 ± 0.109 χ^2/NDF : 1301.8/17

Left In: 4.662 ± 0.077 χ^2/NDF : 11281.5/22

Left: 4.610 ± 0.054 χ^2/NDF : 24874.4/47

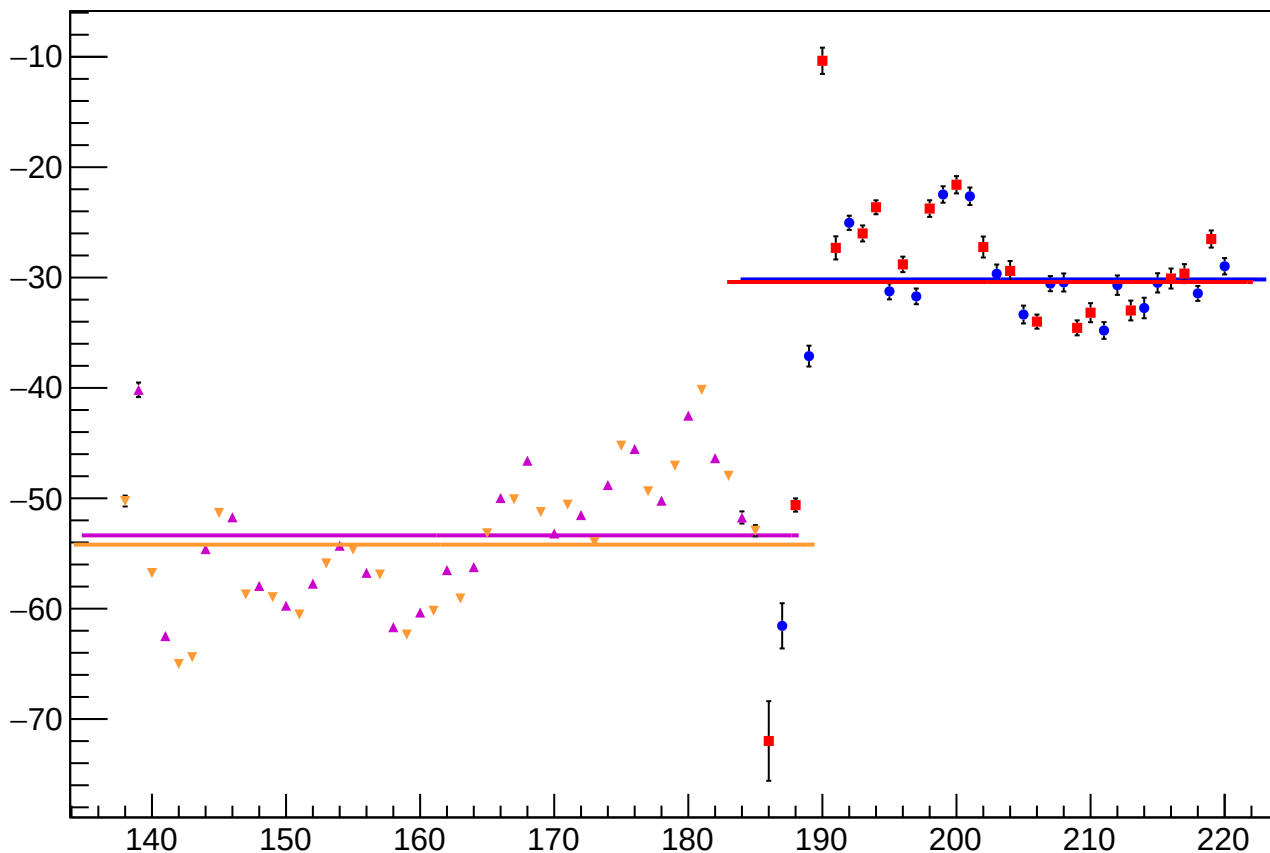
Right: 11.319 ± 0.079 χ^2/NDF : 2093.7/34

In: 6.553 ± 0.064 χ^2/NDF : 14006.0/39

Out: 6.902 ± 0.062 χ^2/NDF : 17865.9/42

All: 6.733 ± 0.044 χ^2/NDF : 31887.2/82

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.171 ± 0.192 $\chi^2/\text{NDF}: 625.6/16$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -30.402 ± 0.189 $\chi^2/\text{NDF}: 2052.5/17$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

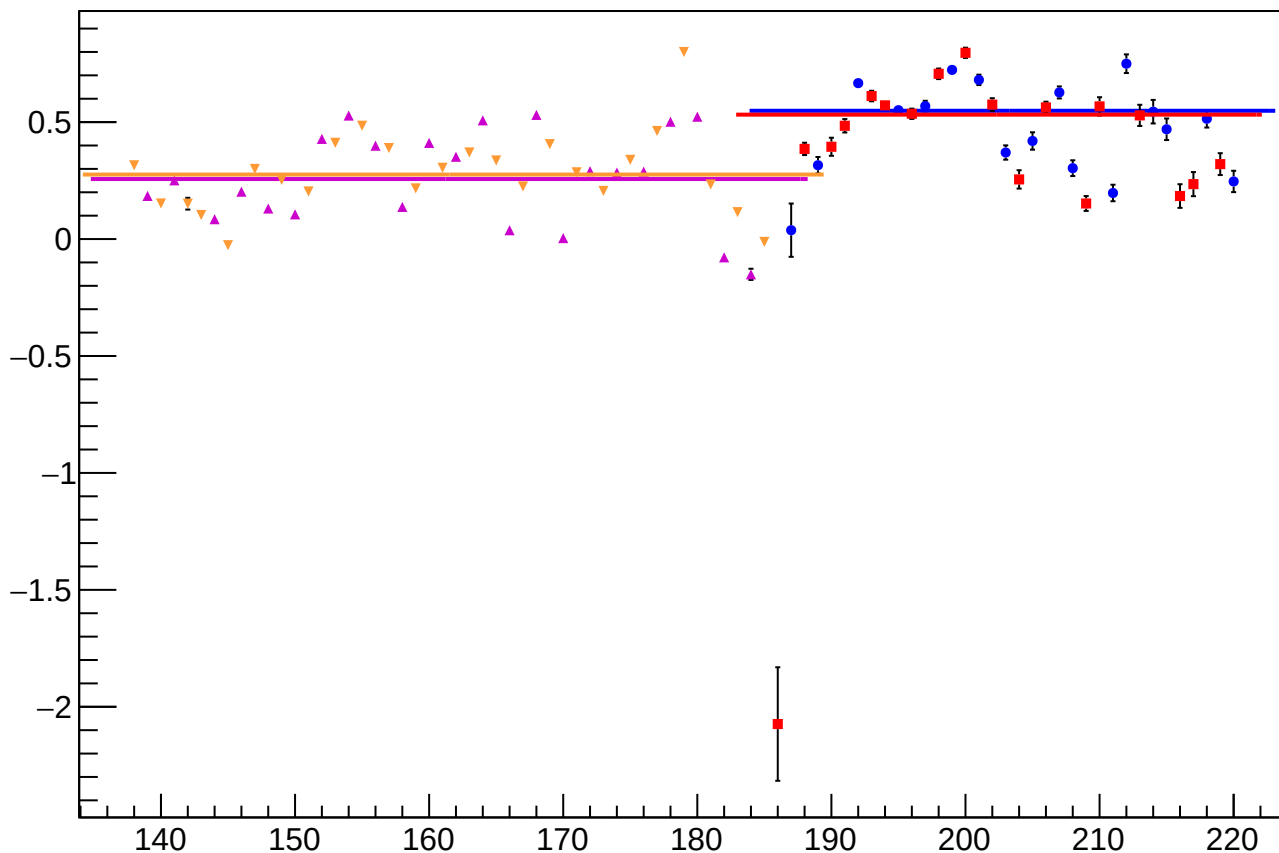
Right: -30.289 ± 0.135 $\chi^2/\text{NDF}: 2678.8/34$

In: -50.739 ± 0.064 $\chi^2/\text{NDF}: 20461.5/39$

Out: -51.576 ± 0.063 $\chi^2/\text{NDF}: 24669.2/42$

All: -51.170 ± 0.045 $\chi^2/\text{NDF}: 45217.4/82$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.549 $\pm$ 0.007 χ^2 /NDF: 480.6/16

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.532 $\pm$ 0.007 χ^2 /NDF: 682.1/17

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

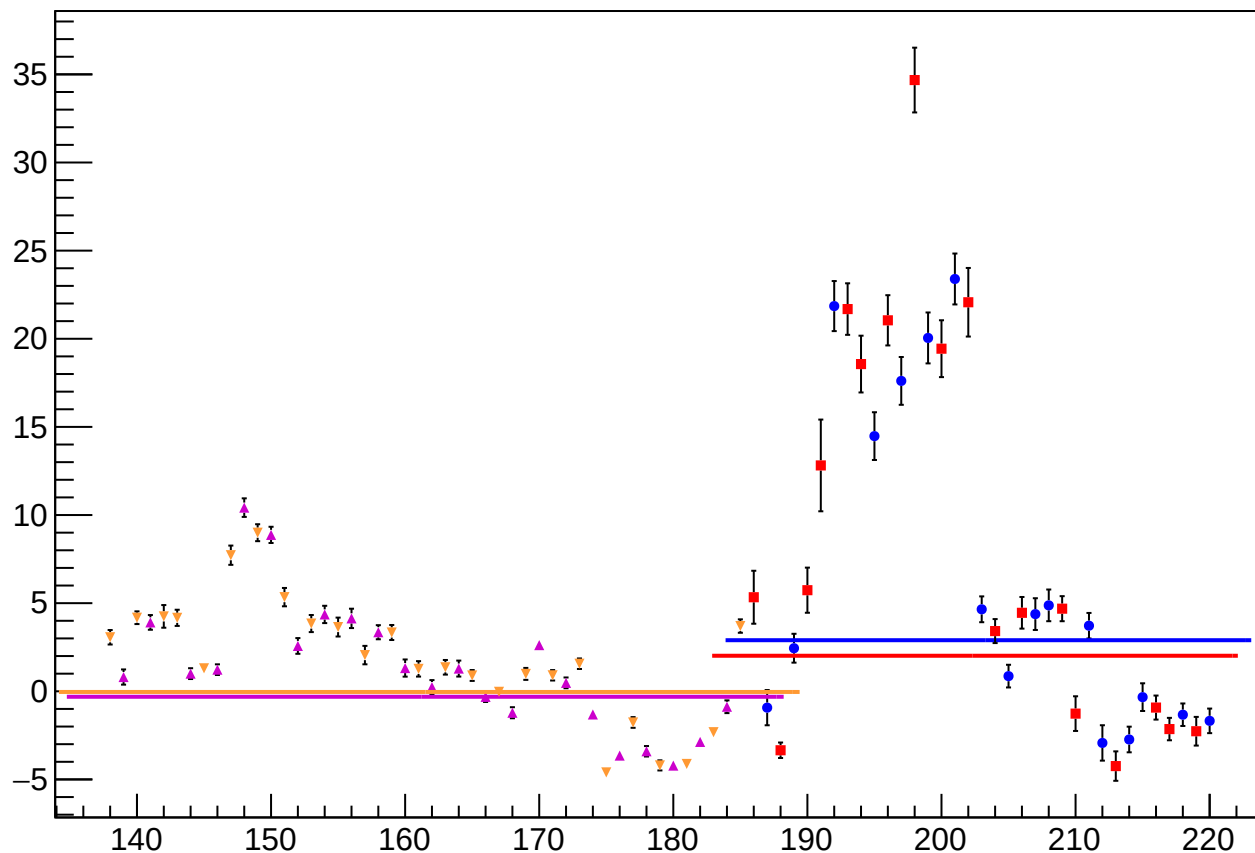
Right: 0.540 $\pm$ 0.005 χ^2 /NDF: 1165.4/34

In: 0.302 $\pm$ 0.003 χ^2 /NDF:5486.8/39

Out: 0.318 $\pm$ 0.003 χ^2 /NDF:4475.8/42

All: 0.311 $\pm$ 0.002 χ^2 /NDF: 9978.9/82

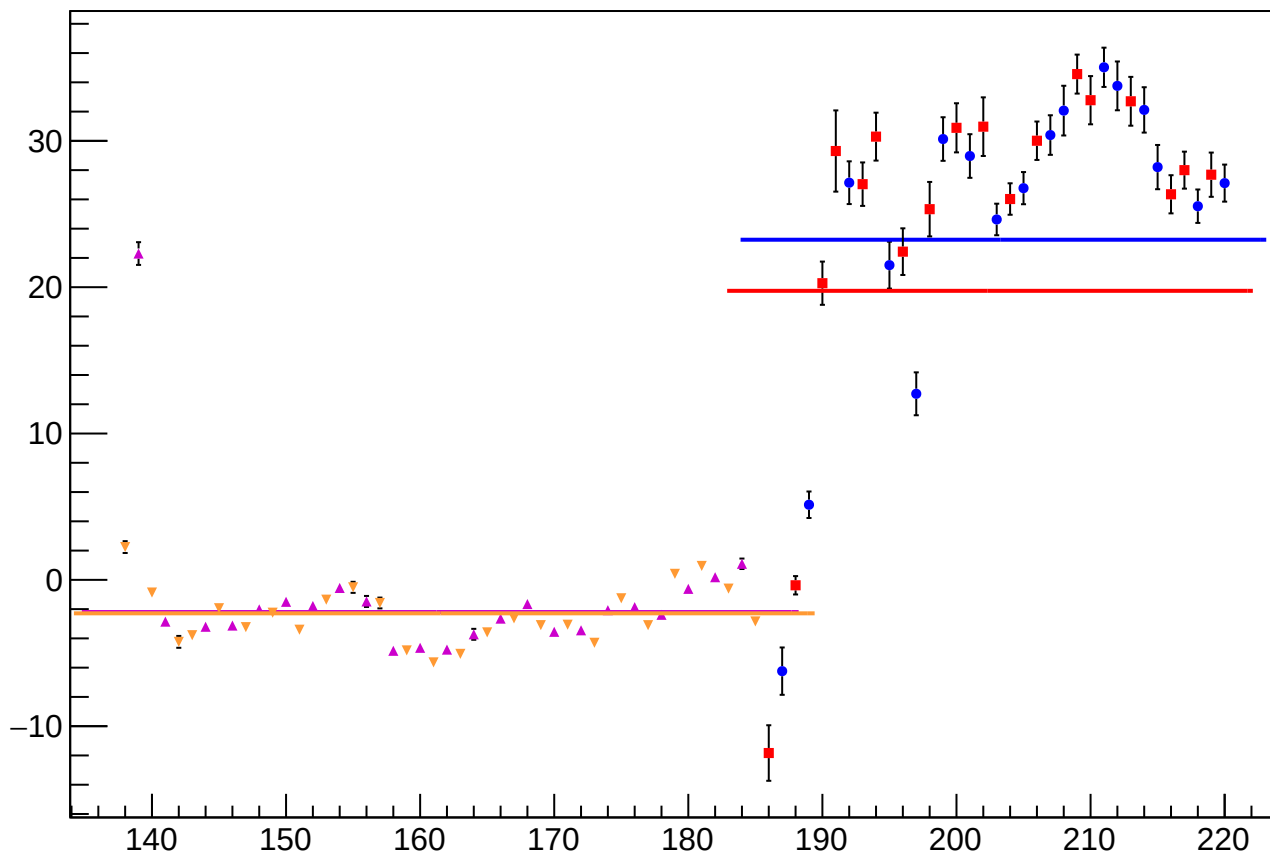
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.899 ± 0.210 χ^2/NDF : 948.4/16
 Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24
 Right Out: 2.017 ± 0.210 χ^2/NDF : 1365.6/17
 Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47
 Right: 2.458 ± 0.148 χ^2/NDF : 2322.9/34
 In: -0.011 ± 0.064 χ^2/NDF : 3410.9/39
 Out: 0.147 ± 0.063 χ^2/NDF : 4090.3/42
 All: 0.070 ± 0.045 χ^2/NDF : 7504.3/82

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 23.244 ± 0.323 χ^2/NDF : 1069.0/16

Left Out: -2.288 ± 0.054 χ^2/NDF : 1137.7/24

Right Out: 19.752 ± 0.318 χ^2/NDF : 1906.2/17

Left In: -2.198 ± 0.055 χ^2/NDF : 1673.9/22

Left: -2.244 ± 0.039 χ^2/NDF : 2813.0/47

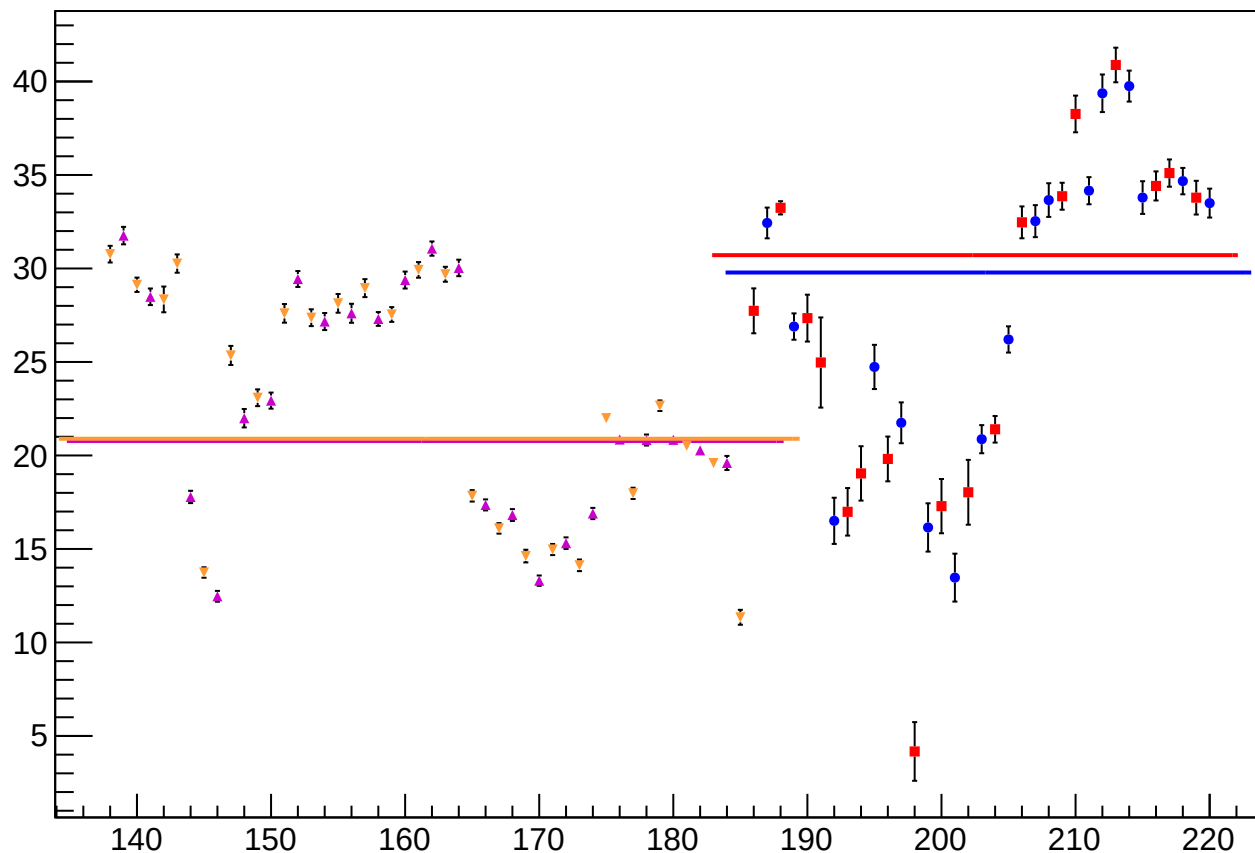
Right: 21.468 ± 0.227 χ^2/NDF : 3034.5/34

In: -1.480 ± 0.054 χ^2/NDF : 8760.8/39

Out: -1.666 ± 0.053 χ^2/NDF : 7719.1/42

All: -1.575 ± 0.038 χ^2/NDF : 16485.9/82

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.784 $\pm$ 0.210 χ^2 /NDF: 1048.4/16

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 30.712 $\pm$ 0.201 χ^2 /NDF: 1204.6/17

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

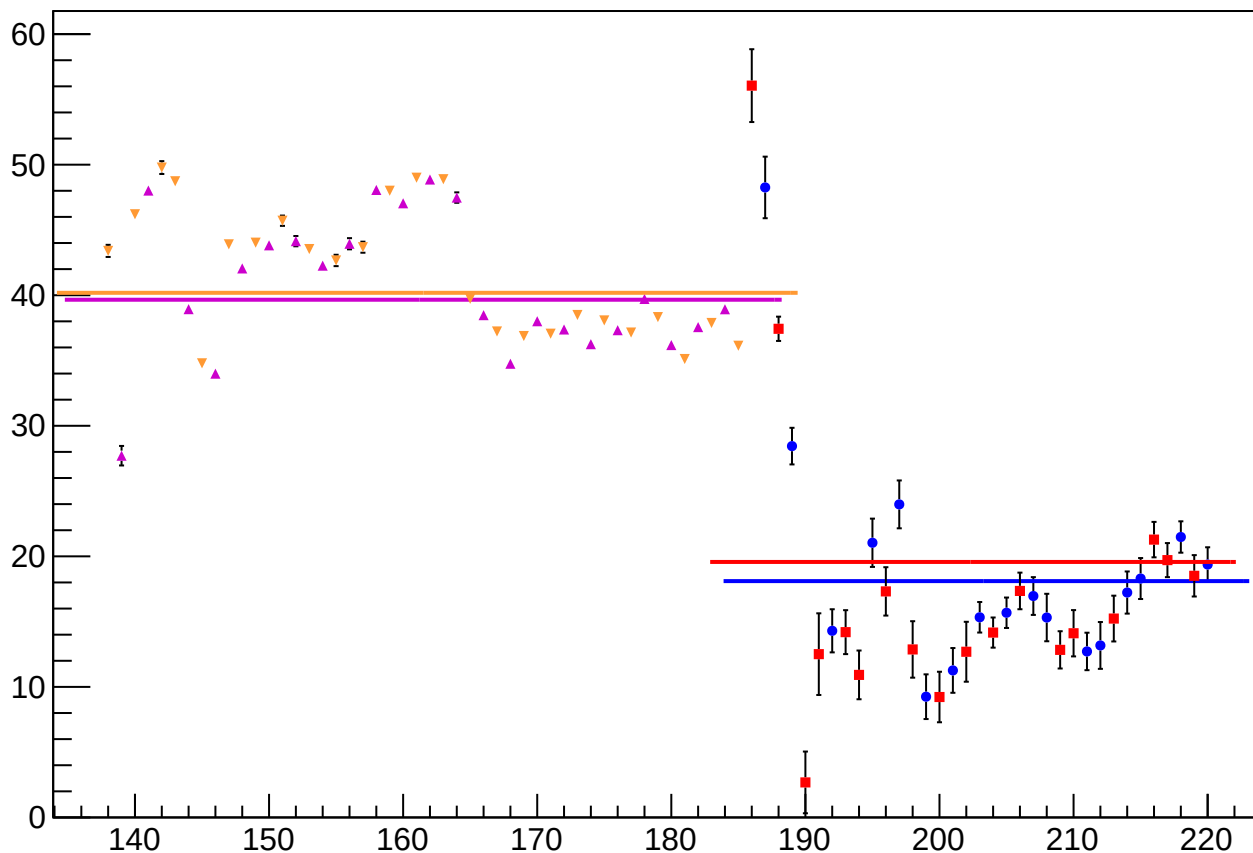
Right: 30.268 $\pm$ 0.145 χ^2 /NDF: 2263.1/34

In: 21.618 $\pm$ 0.064 χ^2 /NDF:8642.3/39

Out: 21.868 $\pm$ 0.063 χ^2 /NDF:10008.0/42

All: 21.744 $\pm$ 0.045 χ^2 /NDF: 18658.0/82

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.104 $\pm$ 0.367 χ^2 /NDF: 322.4/16

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.571 $\pm$ 0.376 χ^2 /NDF: 740.6/17

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

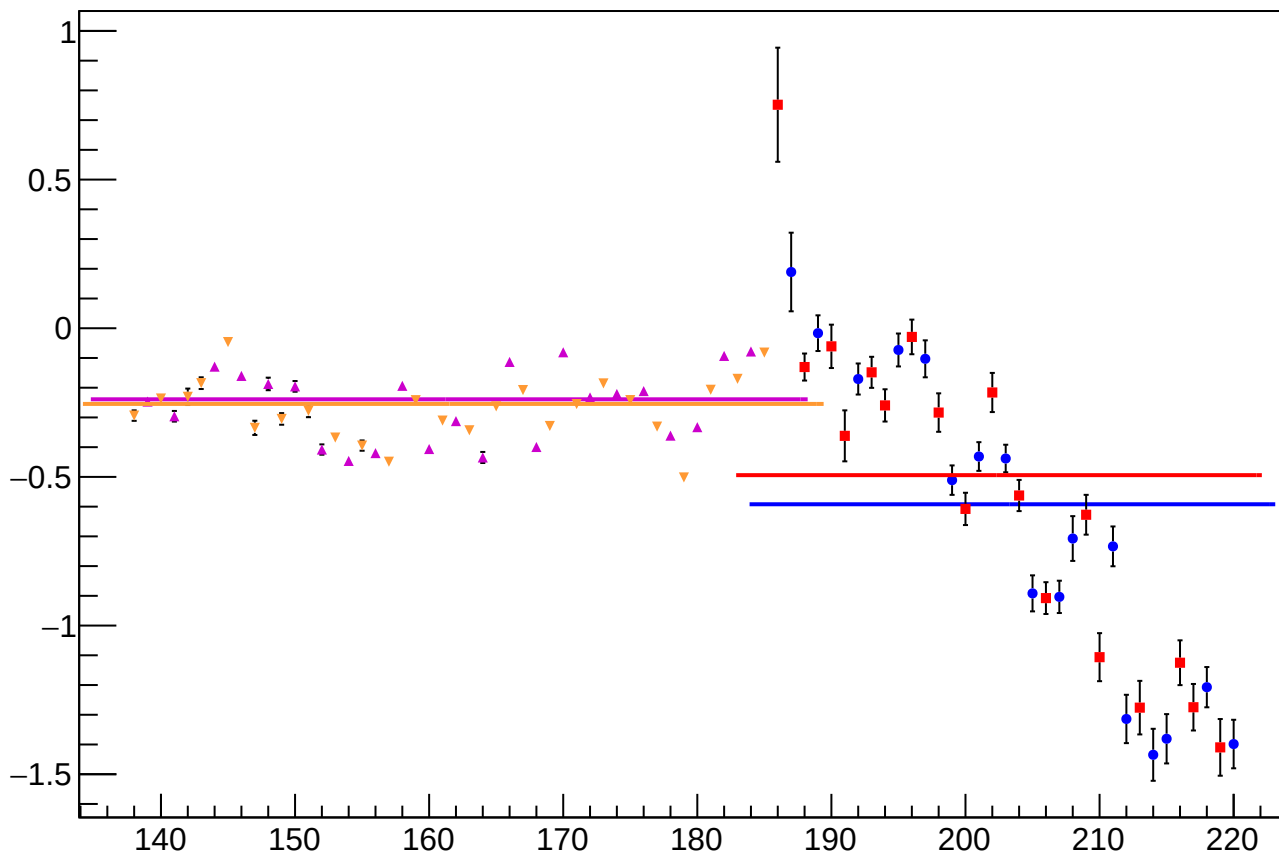
Right: 18.820 $\pm$ 0.262 χ^2 /NDF: 1070.8/34

In: 39.067 $\pm$ 0.061 χ^2 /NDF: 8976.1/39

Out: 39.666 $\pm$ 0.060 χ^2 /NDF: 9610.0/42

All: 39.372 $\pm$ 0.043 χ^2 /NDF: 18635.7/82

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.592 ± 0.015 χ^2/NDF : 872.9/16

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.494 ± 0.015 χ^2/NDF : 762.9/17

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

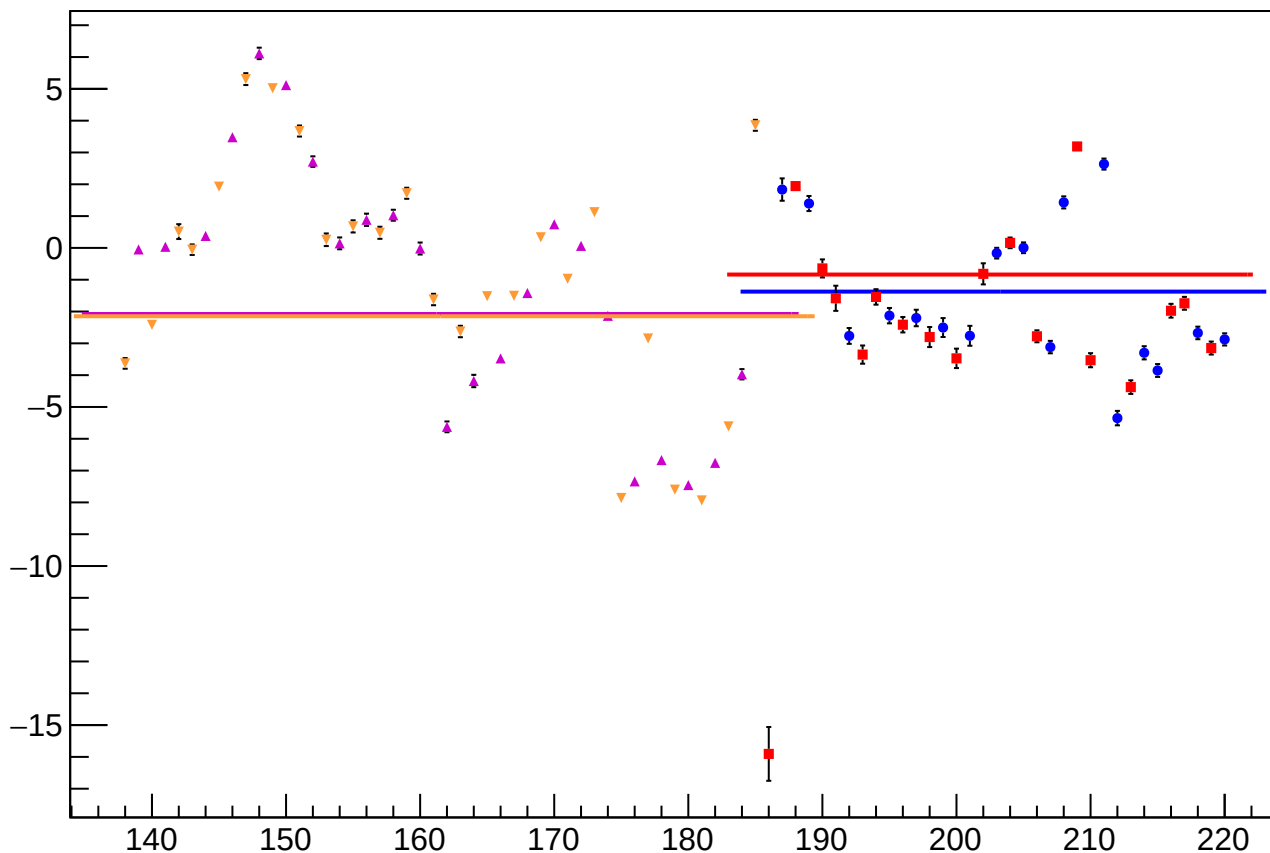
Right: -0.544 ± 0.011 χ^2/NDF : 1656.7/34

In: -0.251 ± 0.003 χ^2/NDF : 3153.2/39

Out: -0.262 ± 0.003 χ^2/NDF : 2422.8/42

All: -0.256 ± 0.002 χ^2/NDF : 5584.7/82

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

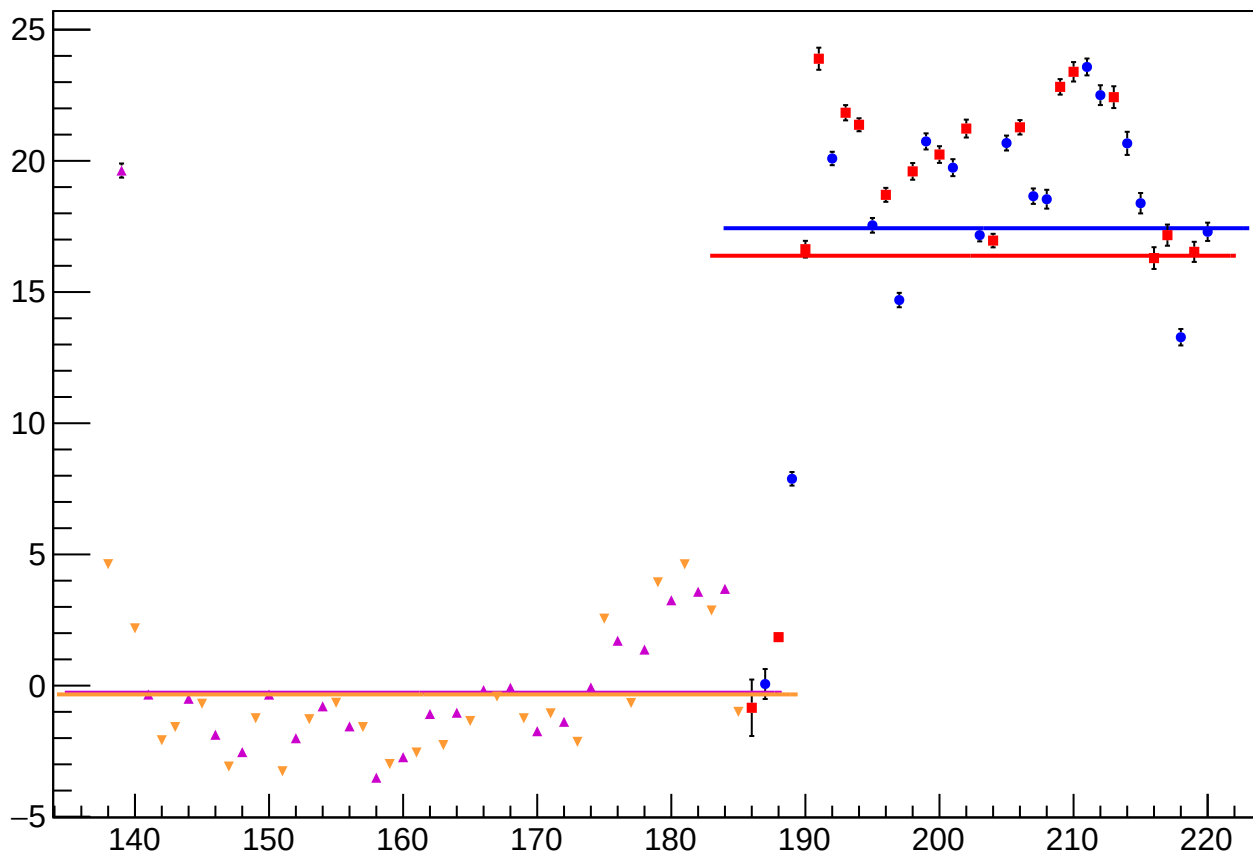


Right In: -1.374 ± 0.052 $\chi^2/\text{NDF}: 1900.0/16$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.837 ± 0.050 $\chi^2/\text{NDF}: 2595.5/17$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -1.098 ± 0.036 $\chi^2/\text{NDF}: 4550.7/34$
 In: -1.936 ± 0.023 $\chi^2/\text{NDF}: 25293.1/39$
 Out: -1.879 ± 0.023 $\chi^2/\text{NDF}: 27671.1/42$

All: -1.907 ± 0.016 $\chi^2/\text{NDF}: 52967.3/82$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.433 ± 0.076 $\chi^2/\text{NDF}: 3598.3/16$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 16.384 ± 0.071 $\chi^2/\text{NDF}: 11338.1/17$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

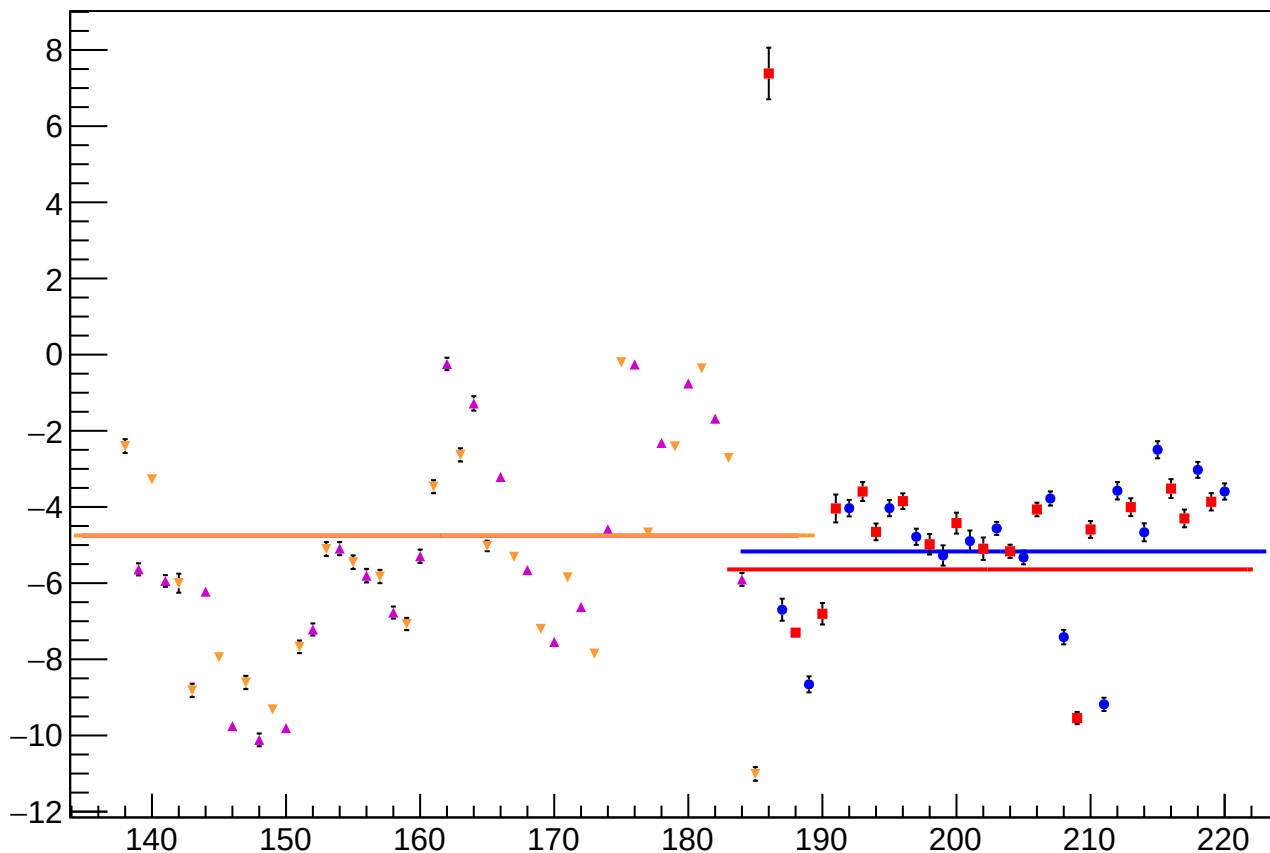
Right: 16.878 ± 0.052 $\chi^2/\text{NDF}: 15038.5/34$

In: 0.995 ± 0.020 $\chi^2/\text{NDF}: 67960.2/39$

Out: 0.952 ± 0.020 $\chi^2/\text{NDF}: 74706.0/42$

All: 0.973 ± 0.014 $\chi^2/\text{NDF}: 142668.7/82$

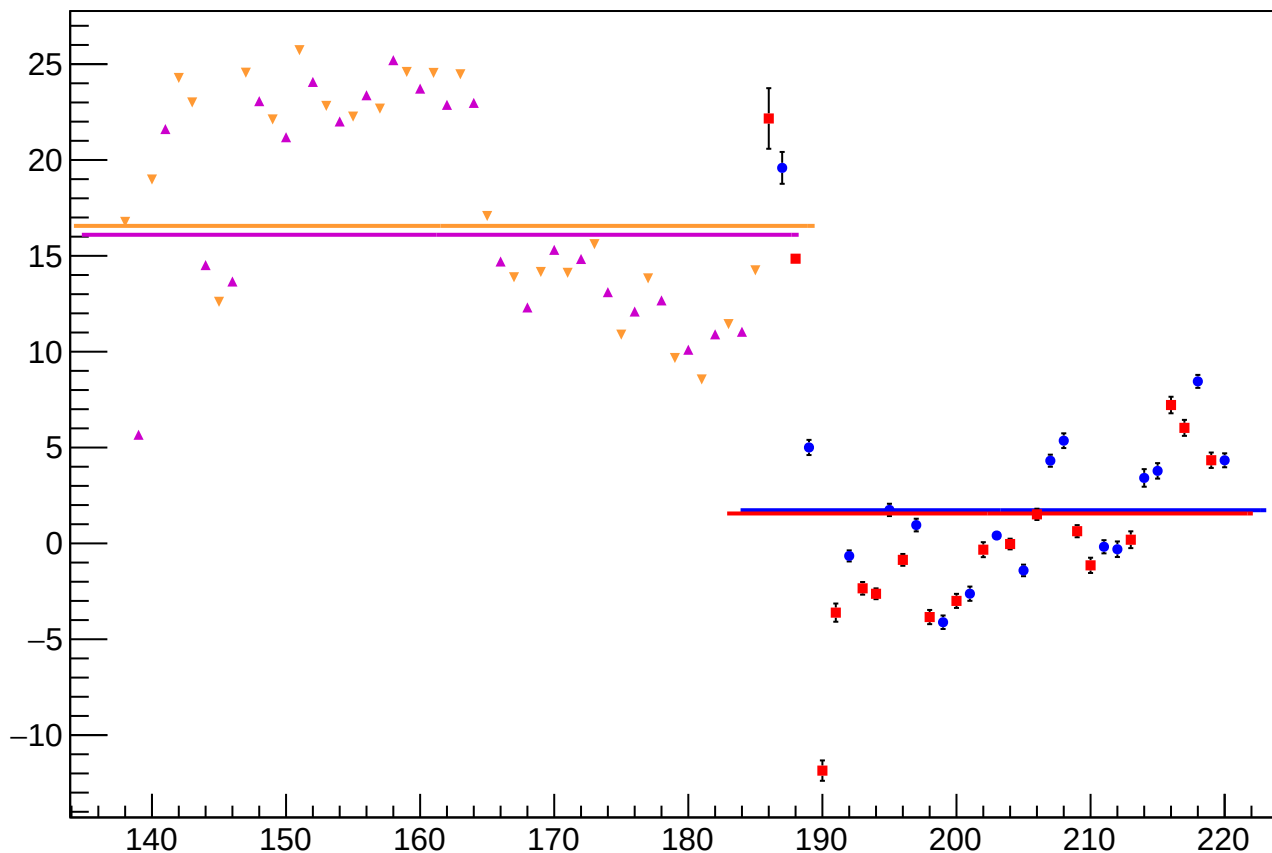
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.168 ± 0.051 $\chi^2/\text{NDF}: 1458.7/16$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.639 ± 0.047 $\chi^2/\text{NDF}: 1868.7/17$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.421 ± 0.035 $\chi^2/\text{NDF}: 3373.1/34$
 In: -4.839 ± 0.023 $\chi^2/\text{NDF}: 15630.1/39$
 Out: -4.952 ± 0.023 $\chi^2/\text{NDF}: 15430.8/42$
 All: -4.897 ± 0.016 $\chi^2/\text{NDF}: 31073.0/82$

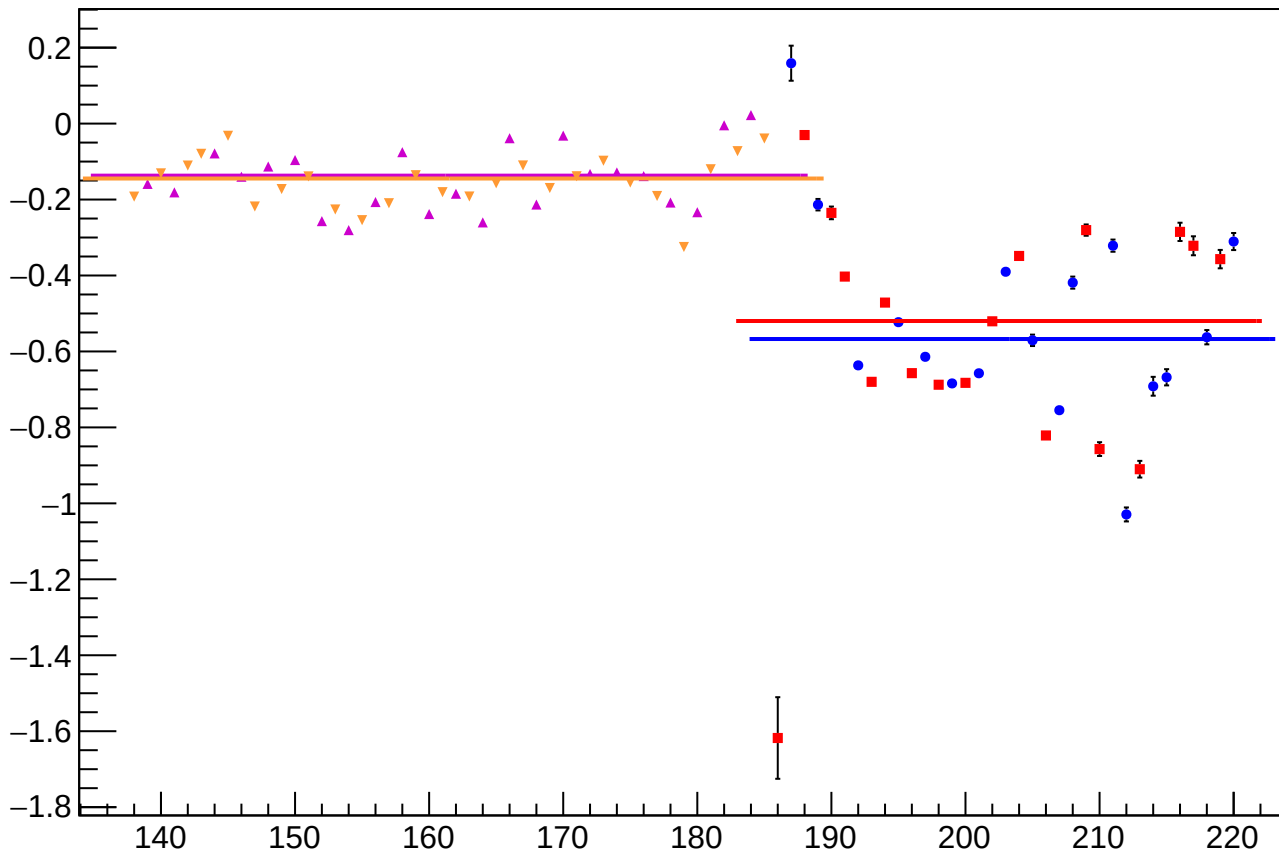
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.731 ± 0.085 $\chi^2/\text{NDF}: 1845.8/16$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 1.561 ± 0.083 $\chi^2/\text{NDF}: 5397.4/17$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 1.644 ± 0.060 $\chi^2/\text{NDF}: 7245.3/34$
 In: 15.075 ± 0.023 $\chi^2/\text{NDF}: 70667.7/39$
 Out: 15.492 ± 0.022 $\chi^2/\text{NDF}: 89237.6/42$
 All: 15.287 ± 0.016 $\chi^2/\text{NDF}: 160076.6/82$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.567 ± 0.003 χ^2/NDF : 2816.4/16

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.520 ± 0.003 χ^2/NDF : 5698.5/17

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

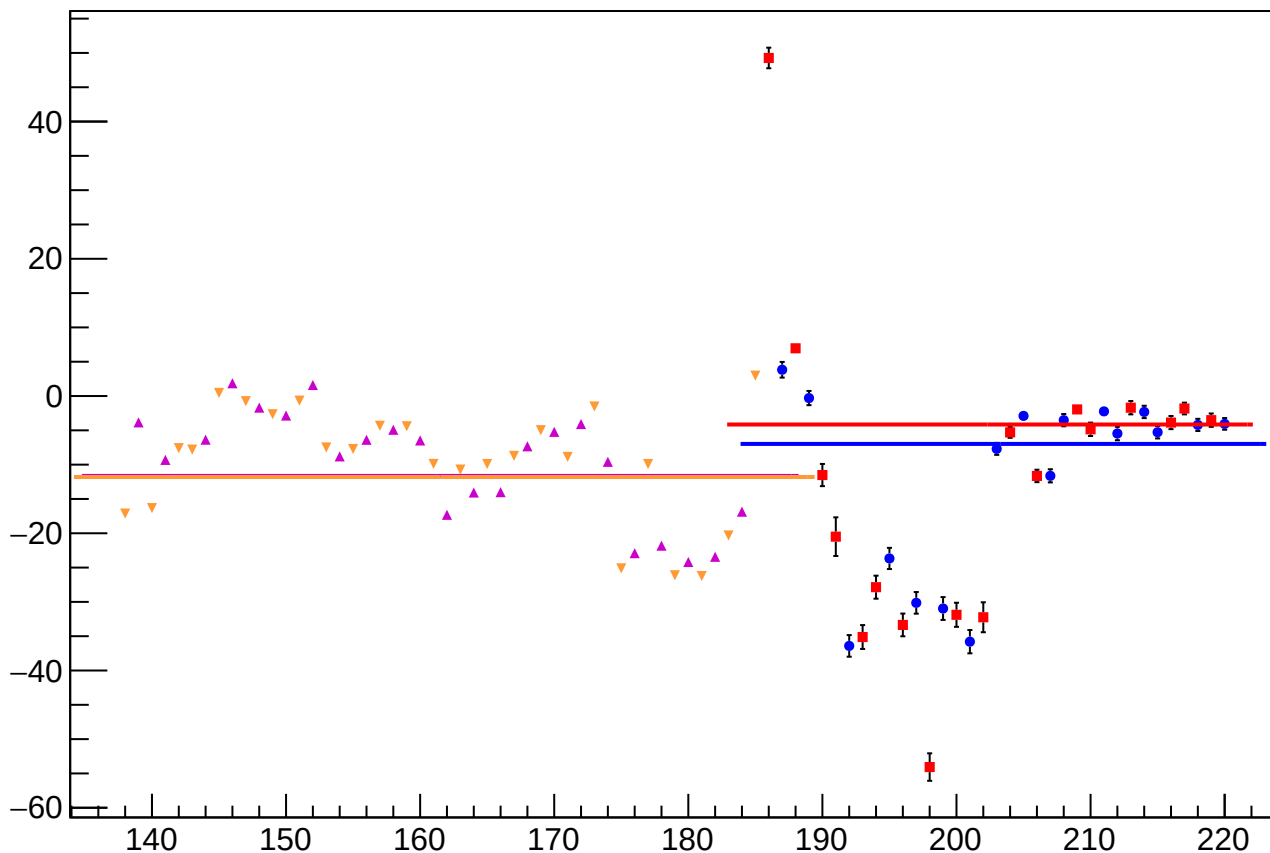
Right: -0.542 ± 0.002 χ^2/NDF : 8630.5/34

In: -0.180 ± 0.001 χ^2/NDF : 24388.4/39

Out: -0.185 ± 0.001 χ^2/NDF : 23151.5/42

All: -0.183 ± 0.001 χ^2/NDF : 47551.9/82

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.979 ± 0.241 χ^2/NDF : 1476.8/16

Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24

Right Out: -4.151 ± 0.245 χ^2/NDF : 3710.9/17

Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

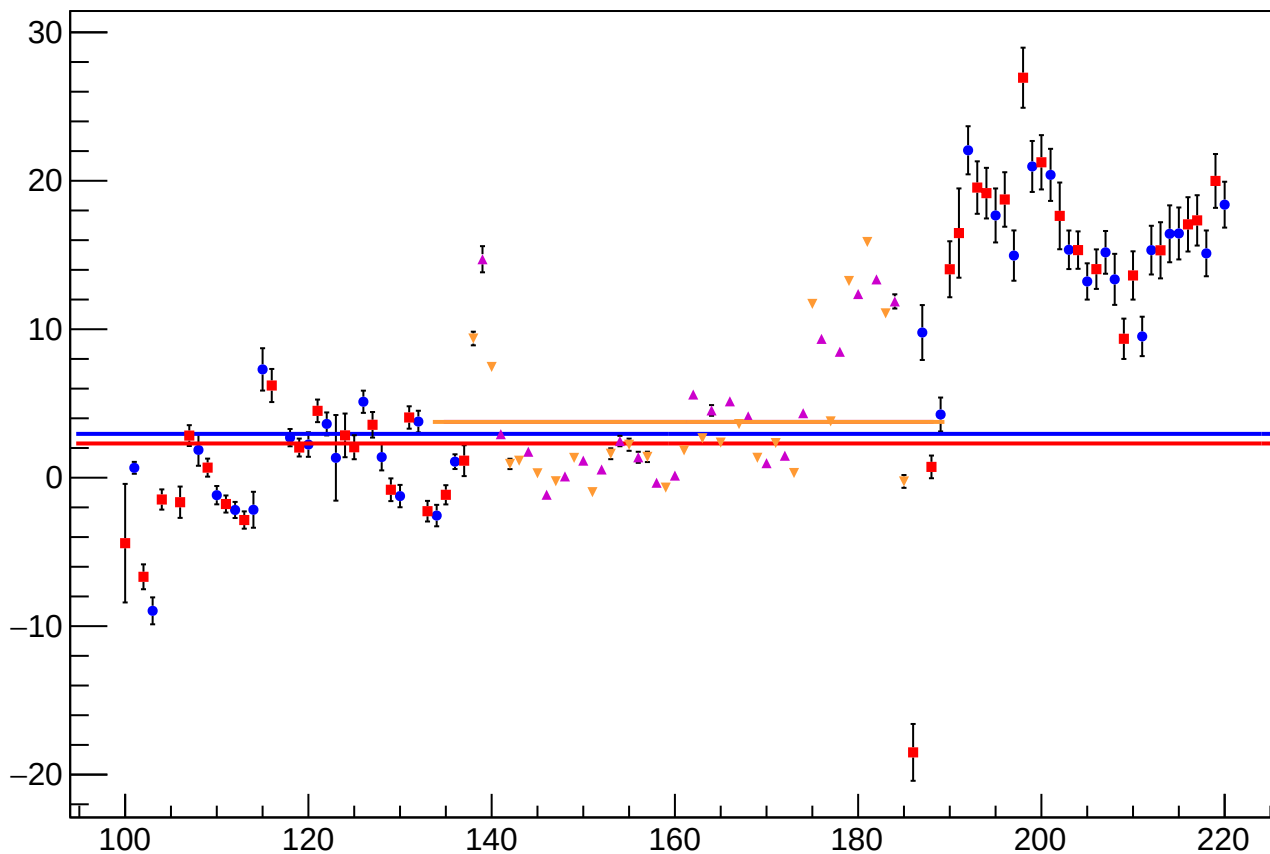
Right: -5.592 ± 0.172 χ^2/NDF : 5255.4/34

In: -11.263 ± 0.069 χ^2/NDF : 15942.8/39

Out: -11.221 ± 0.068 χ^2/NDF : 21917.5/42

All: -11.242 ± 0.048 χ^2/NDF : 37860.5/82

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.952 $\pm$ 0.155 χ^2 /NDF: 1586.8/33

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 2.305 $\pm$ 0.158 χ^2 /NDF: 1720.9/36

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF: 5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

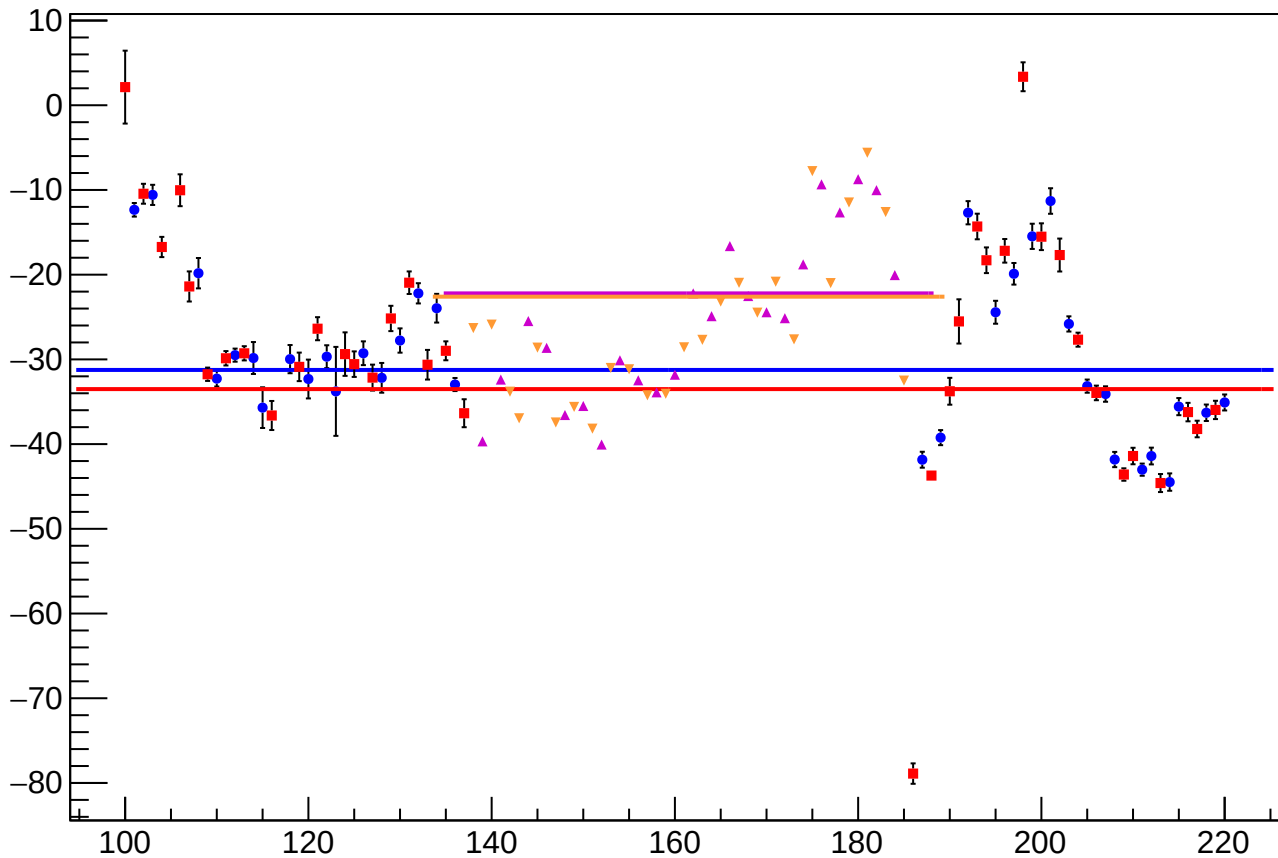
Right: 2.634 $\pm$ 0.111 χ^2 /NDF: 3316.2/70

In: 3.662 $\pm$ 0.053 χ^2 /NDF: 7239.9/56

Out: 3.597 $\pm$ 0.052 χ^2 /NDF: 9246.9/61

All: 3.629 $\pm$ 0.037 χ^2 /NDF: 16487.6/118

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.245 ± 0.188 χ^2/NDF : 2575.4/33

Left Out: -22.598 ± 0.071 χ^2/NDF : 19933.4/24

Right Out: -33.507 ± 0.184 χ^2/NDF : 4576.9/36

Left In: -22.209 ± 0.072 χ^2/NDF : 17627.4/22

Left: -22.406 ± 0.050 χ^2/NDF : 37575.6/47

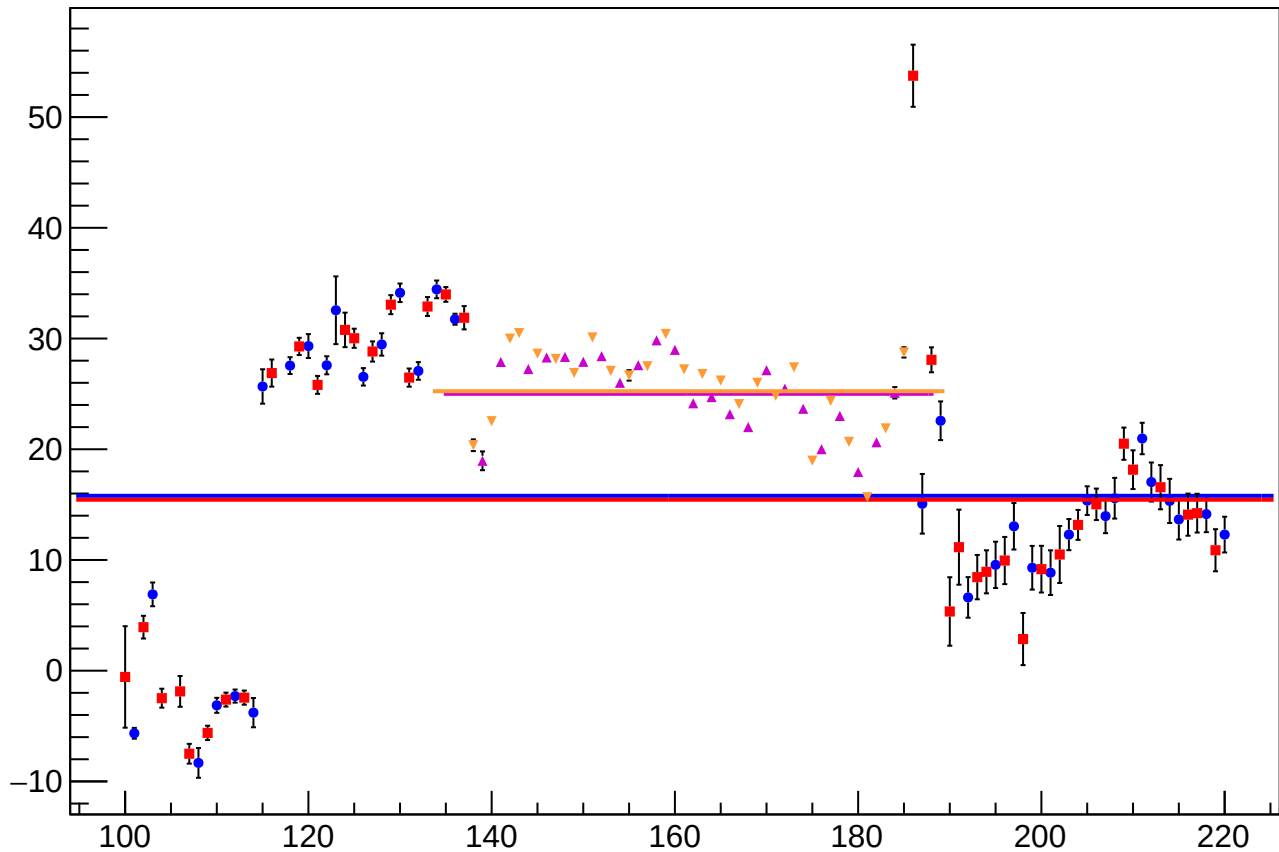
Right: -32.398 ± 0.131 χ^2/NDF : 7226.4/70

In: -23.358 ± 0.067 χ^2/NDF : 22228.9/56

Out: -24.002 ± 0.066 χ^2/NDF : 27575.0/61

All: -23.684 ± 0.047 χ^2/NDF : 49850.9/118

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.794 $\pm$ 0.175 χ^2 /NDF: 7647.0/33

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.440 $\pm$ 0.179 χ^2 /NDF: 7682.5/36

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF:2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

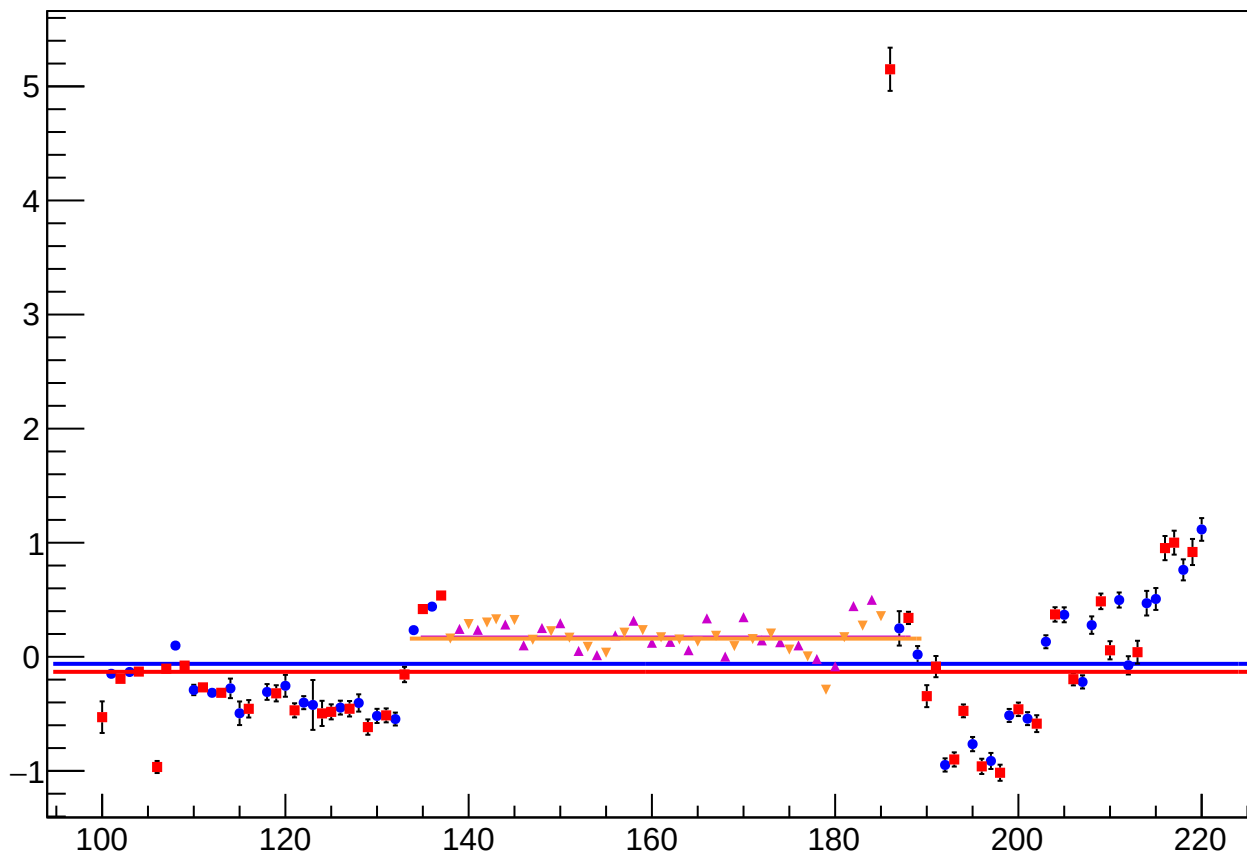
Right: 15.621 $\pm$ 0.125 χ^2 /NDF: 15331.5/70

In: 23.926 $\pm$ 0.060 χ^2 /NDF:12817.8/56

Out: 24.178 $\pm$ 0.059 χ^2 /NDF:14127.9/61

All: 24.054 $\pm$ 0.042 χ^2 /NDF: 26954.8/118

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.062 ± 0.009 χ^2/NDF : 2097.5/33

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.132 ± 0.009 χ^2/NDF : 3050.4/36

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

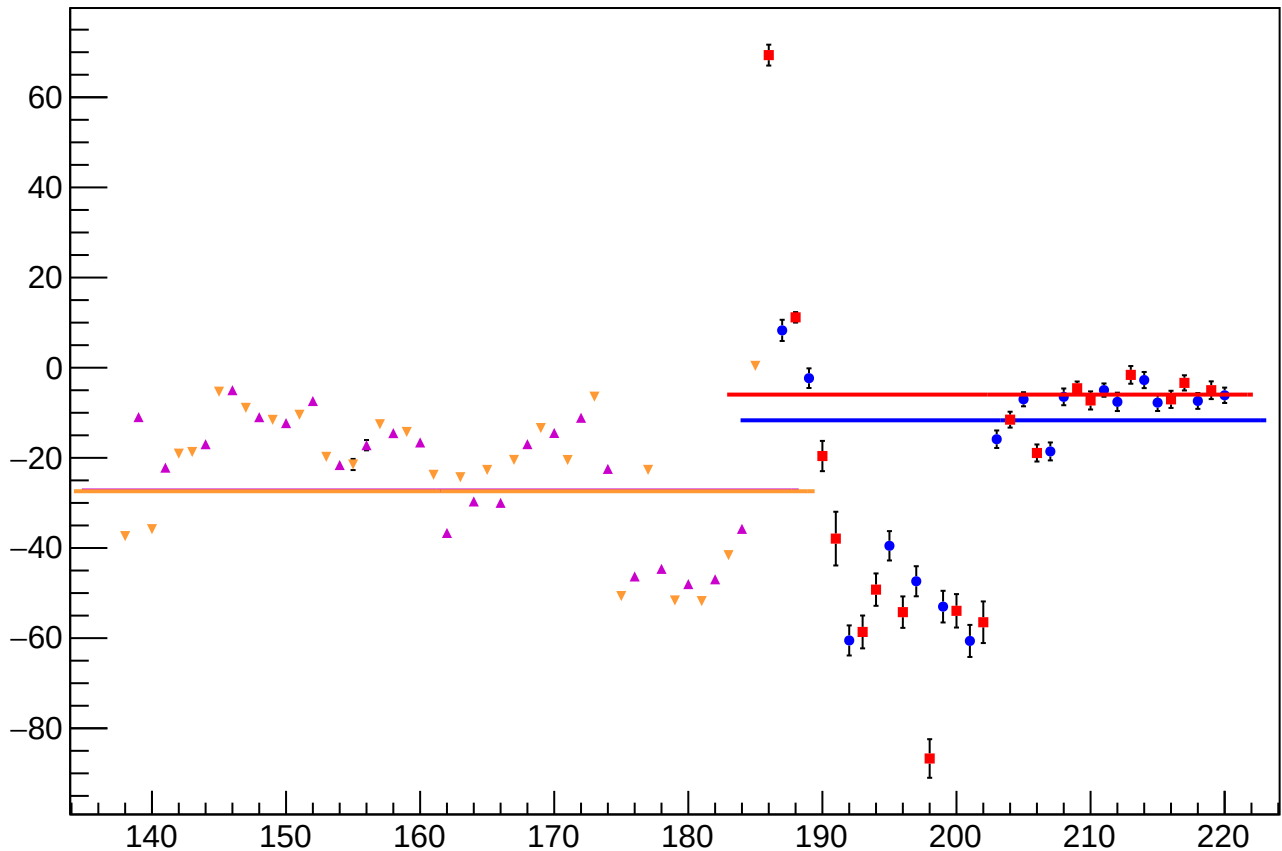
Right: -0.097 ± 0.006 χ^2/NDF : 5179.1/70

In: 0.146 ± 0.003 χ^2/NDF : 5128.1/56

Out: 0.132 ± 0.003 χ^2/NDF : 5886.4/61

All: 0.139 ± 0.002 χ^2/NDF : 11028.3/118

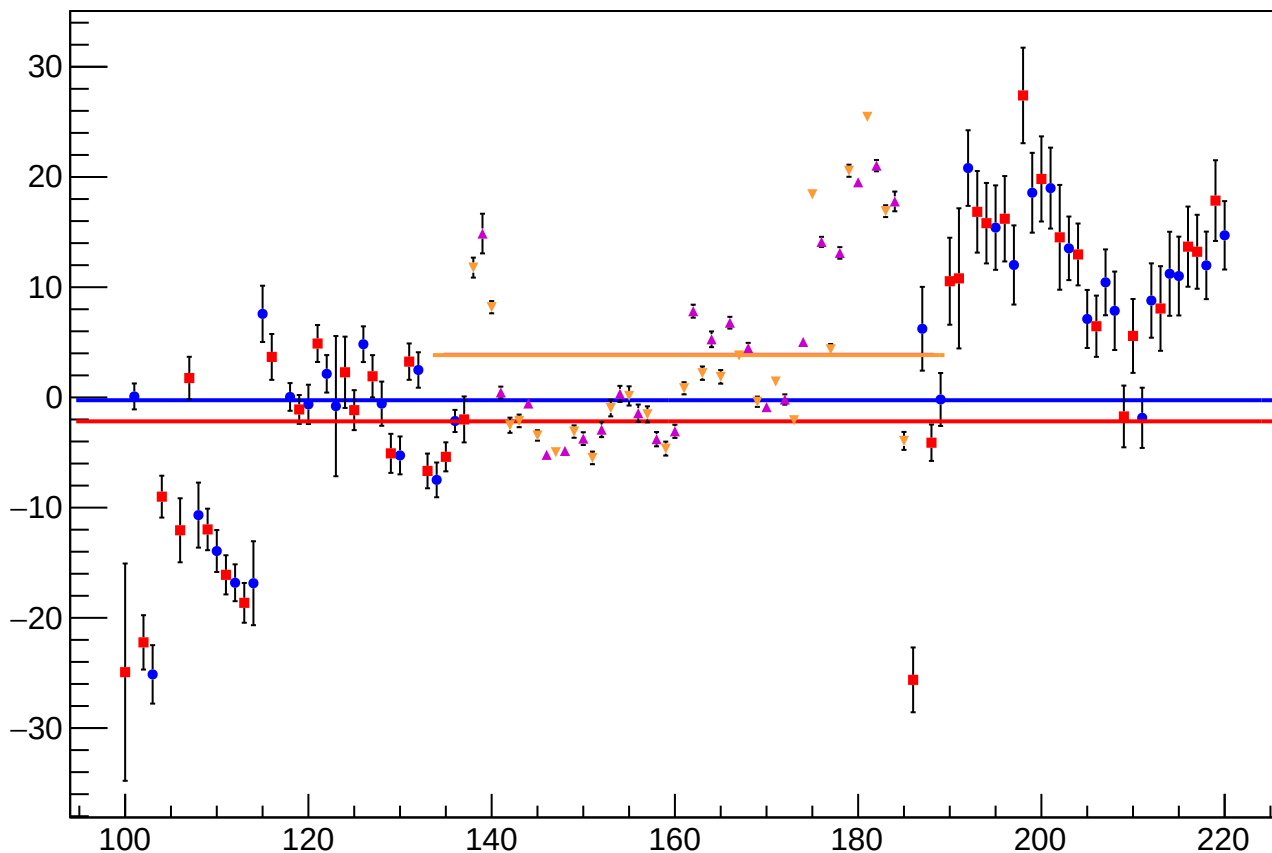
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.672 ± 0.499 $\chi^2/\text{NDF}: 924.3/16$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.966 ± 0.507 $\chi^2/\text{NDF}: 2573.0/17$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -8.861 ± 0.356 $\chi^2/\text{NDF}: 3561.7/34$
 In: -26.117 ± 0.134 $\chi^2/\text{NDF}: 13132.1/39$
 Out: -25.950 ± 0.132 $\chi^2/\text{NDF}: 19093.2/42$
 All: -26.032 ± 0.094 $\chi^2/\text{NDF}: 32226.0/82$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.255 ± 0.364 χ^2/NDF : 564.5/33

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.171 ± 0.372 χ^2/NDF : 697.7/36

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

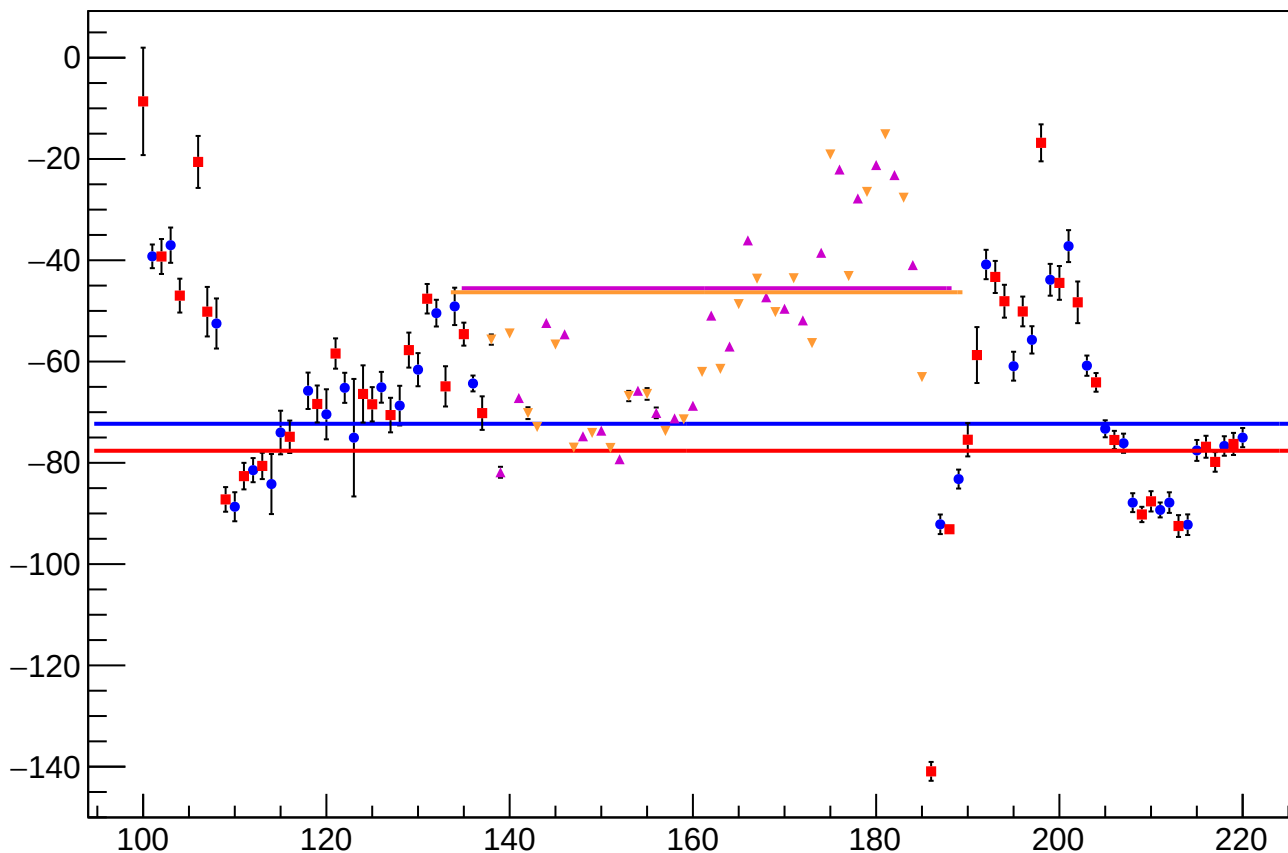
Right: -1.190 ± 0.260 χ^2/NDF : 1275.8/70

In: 3.514 ± 0.106 χ^2/NDF : 6106.0/56

Out: 3.365 ± 0.105 χ^2/NDF : 7877.0/61

All: 3.438 ± 0.075 χ^2/NDF : 13983.9/118

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.288 ± 0.414 χ^2/NDF : 1454.5/33

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.617 ± 0.407 χ^2/NDF : 3100.7/36

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

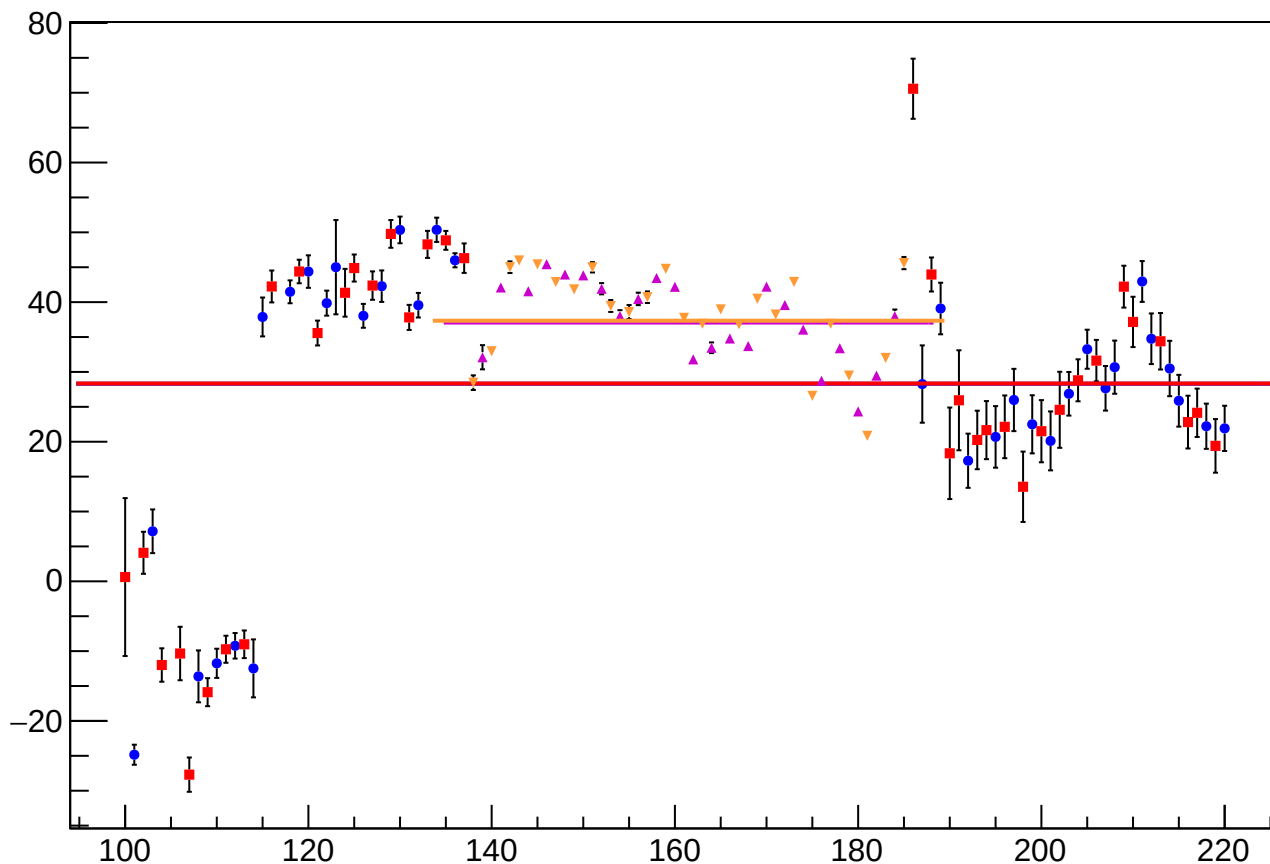
Right: -74.997 ± 0.290 χ^2/NDF : 4639.7/70

In: -48.265 ± 0.132 χ^2/NDF : 22740.4/56

Out: -49.546 ± 0.131 χ^2/NDF : 28546.5/61

All: -48.914 ± 0.093 χ^2/NDF : 51334.3/118

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.313 $\pm$ 0.408 χ^2 /NDF: 3376.7/33

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.340 $\pm$ 0.423 χ^2 /NDF: 3234.5/36

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

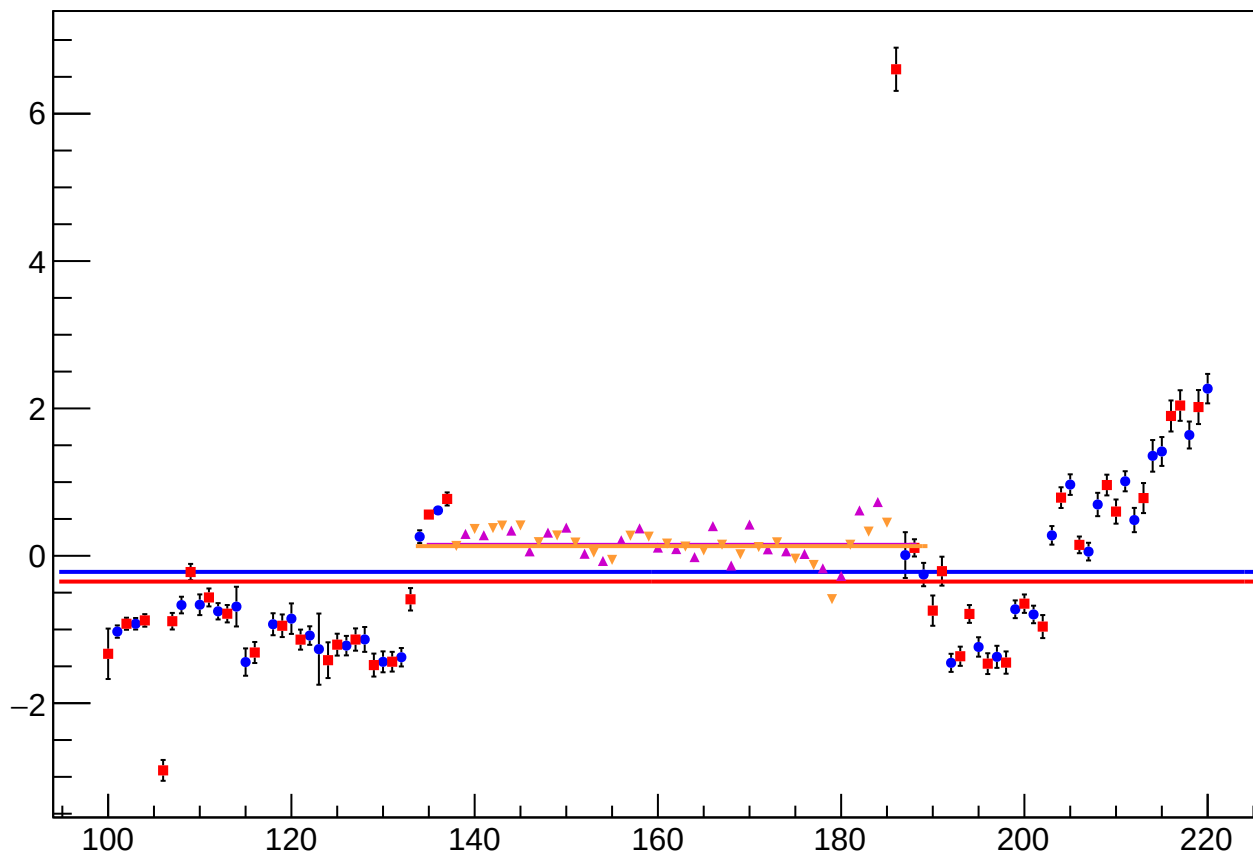
Right: 28.326 $\pm$ 0.294 χ^2 /NDF: 6611.1/70

In: 36.319 $\pm$ 0.120 χ^2 /NDF:6195.8/56

Out: 36.639 $\pm$ 0.118 χ^2 /NDF:6801.3/61

All: 36.482 $\pm$ 0.084 χ^2 /NDF: 13000.8/118

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.218 ± 0.021 χ^2/NDF : 1896.5/33

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.350 ± 0.021 χ^2/NDF : 2579.0/36

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

Right: -0.283 ± 0.015 χ^2/NDF : 4495.6/70

In: 0.122 ± 0.006 χ^2/NDF : 3997.0/56

Out: 0.099 ± 0.005 χ^2/NDF : 4495.6/61

All: 0.110 ± 0.004 χ^2/NDF : 8501.5/118

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.358 ± 0.130 χ^2/NDF : 549.0/16

Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24

Right Out: 1.033 ± 0.130 χ^2/NDF : 1488.2/17

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

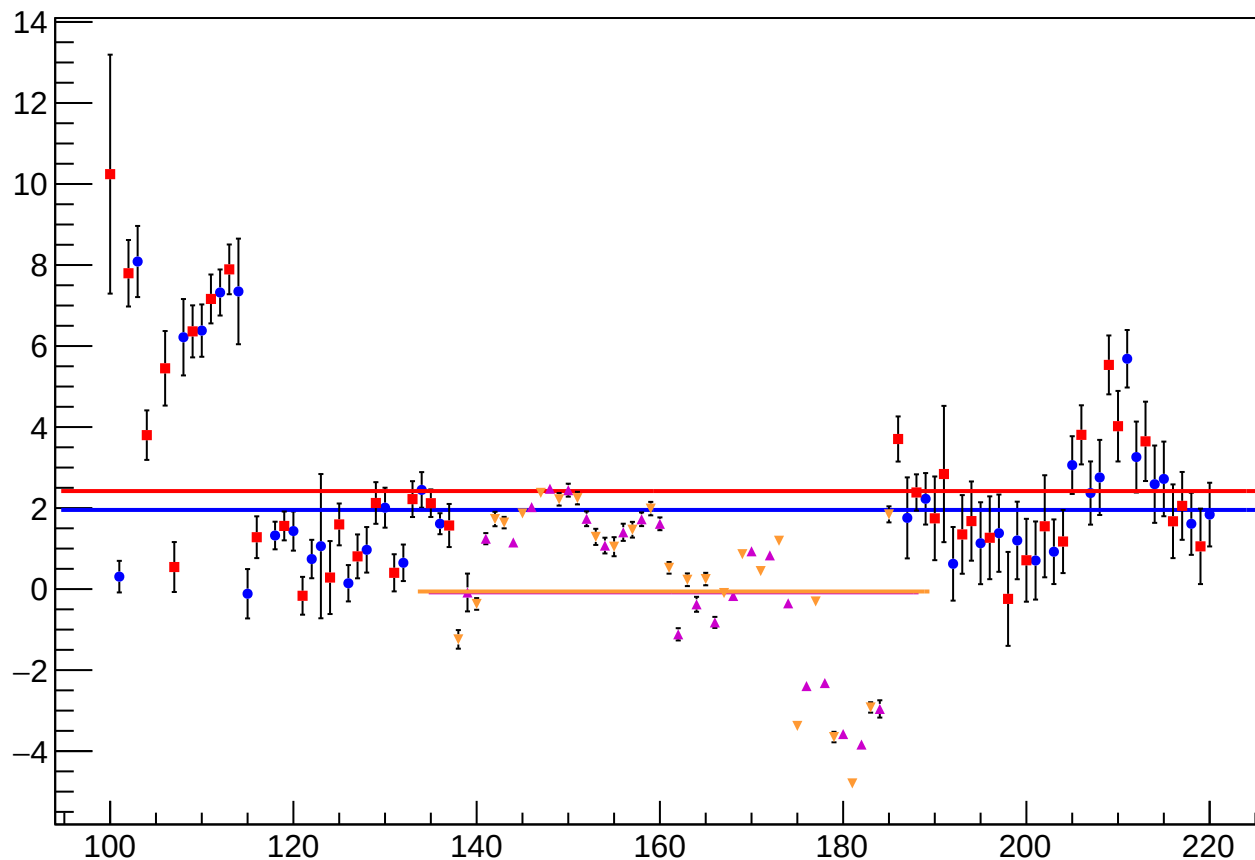
Right: 1.695 ± 0.092 χ^2/NDF : 2089.1/34

In: 7.388 ± 0.034 χ^2/NDF : 10497.4/39

Out: 7.317 ± 0.033 χ^2/NDF : 15722.6/42

All: 7.352 ± 0.024 χ^2/NDF : 26222.2/82

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.954 $\pm$ 0.102 χ^2 /NDF: 336.0/33

Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF:6068.8/24

Right Out: 2.420 $\pm$ 0.104 χ^2 /NDF: 385.6/36

Left In: -0.080 $\pm$ 0.028 χ^2 /NDF:4979.5/22

Left: -0.070 $\pm$ 0.020 χ^2 /NDF: 11048.5/47

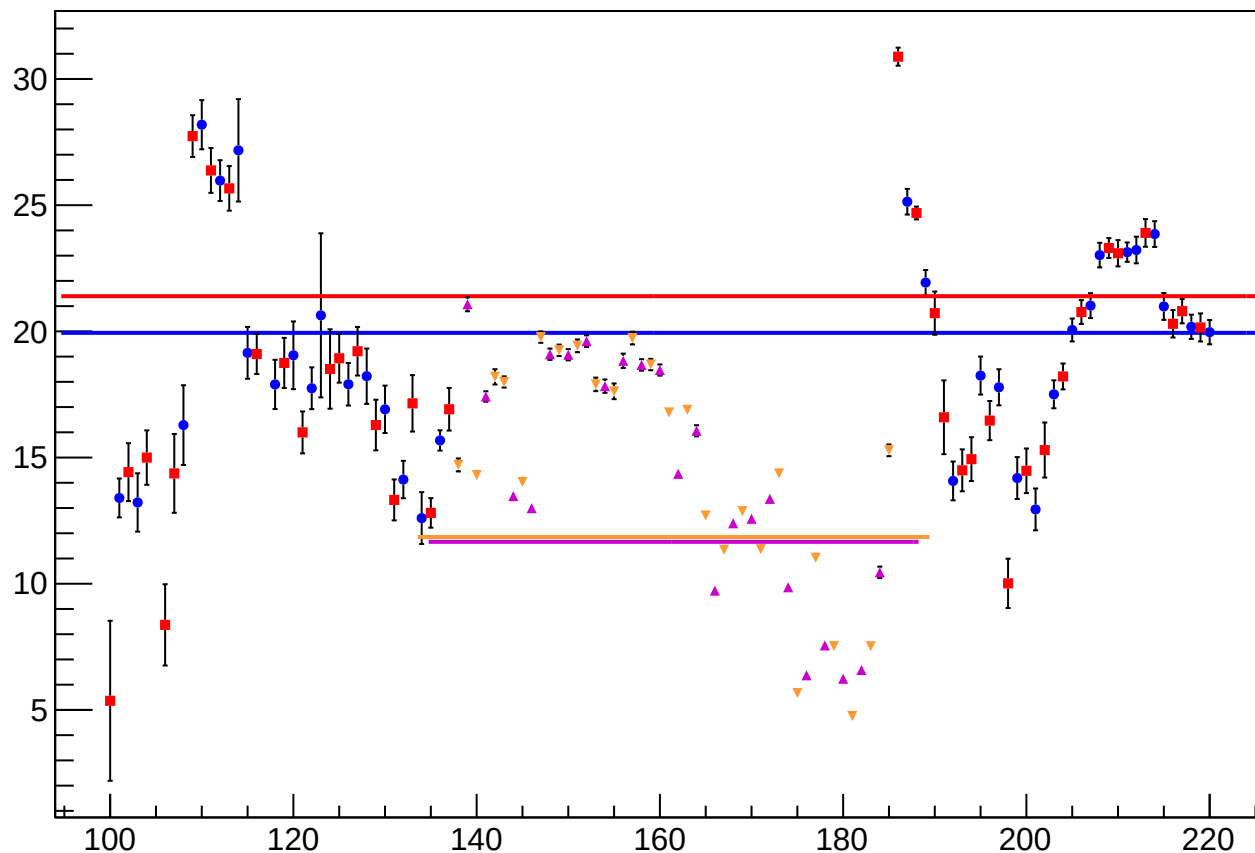
Right: 2.182 $\pm$ 0.073 χ^2 /NDF: 731.9/70

In: 0.066 $\pm$ 0.027 χ^2 /NDF:5687.4/56

Out: 0.106 $\pm$ 0.027 χ^2 /NDF:6986.9/61

All: 0.086 $\pm$ 0.019 χ^2 /NDF: 12675.5/118

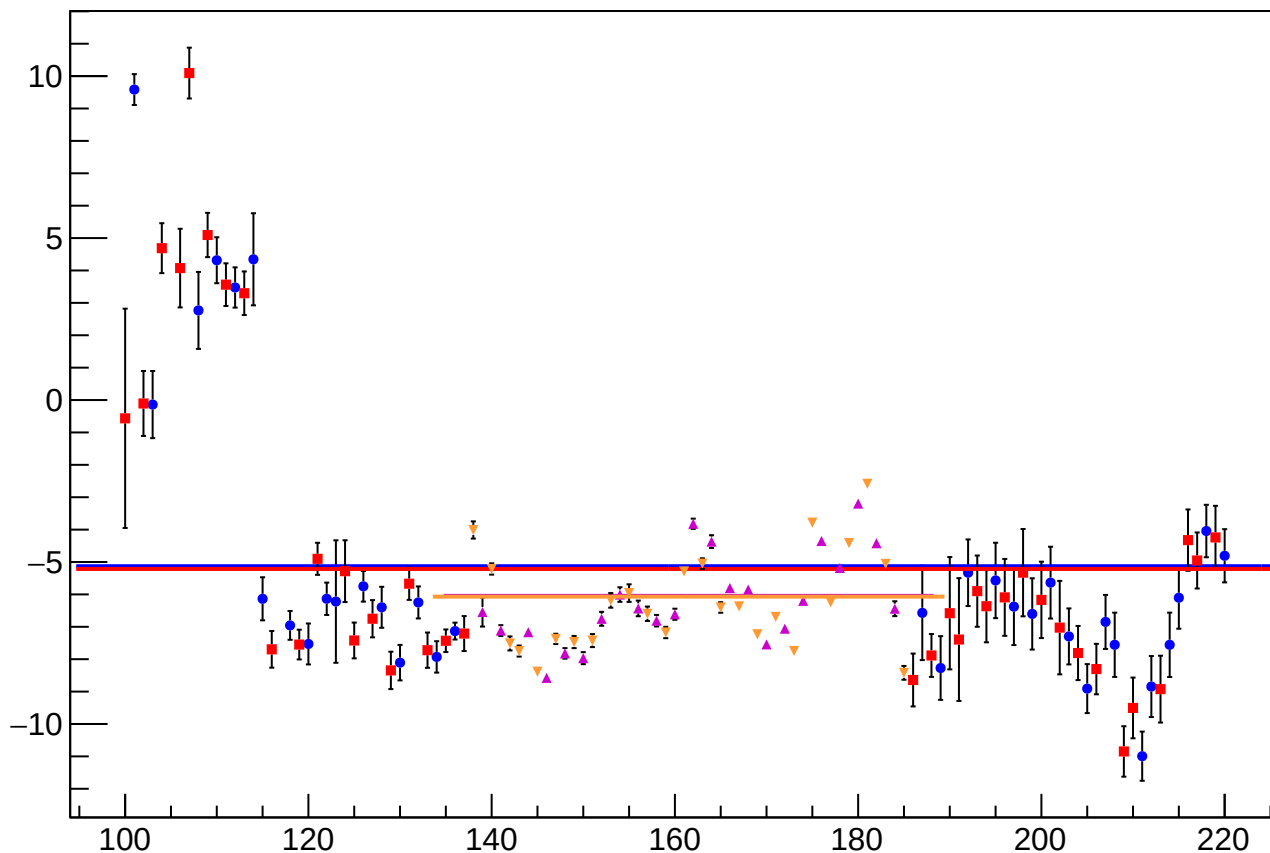
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.941 $\pm$ 0.111 χ^2 /NDF: 1054.6/33
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.393 $\pm$ 0.108 χ^2 /NDF: 2138.2/36
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 20.690 $\pm$ 0.077 χ^2 /NDF: 3281.0/70
 In: 12.416 $\pm$ 0.034 χ^2 /NDF:22823.6/56
 Out: 12.750 $\pm$ 0.033 χ^2 /NDF:28403.4/61
 All: 12.586 $\pm$ 0.024 χ^2 /NDF: 51277.2/118

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.130 ± 0.113 $\chi^2/\text{NDF}: 1746.5/33$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.214 ± 0.118 $\chi^2/\text{NDF}: 1524.5/36$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

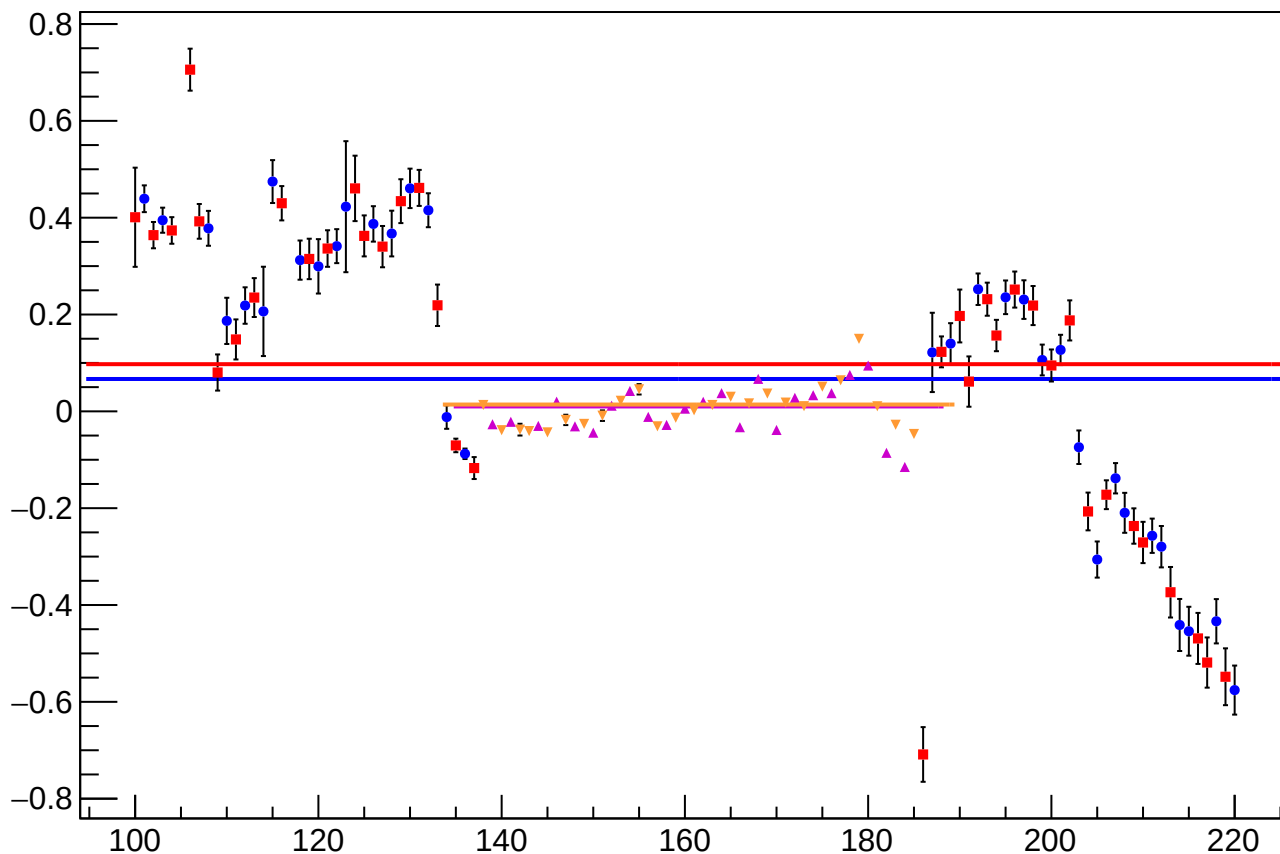
Right: -5.171 ± 0.082 $\chi^2/\text{NDF}: 3271.3/70$

In: -5.979 ± 0.031 $\chi^2/\text{NDF}: 4100.5/56$

Out: -6.013 ± 0.030 $\chi^2/\text{NDF}: 4245.3/61$

All: -5.996 ± 0.021 $\chi^2/\text{NDF}: 8346.4/118$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.067 ± 0.006 χ^2/NDF : 2082.7/33

Left Out: 0.014 ± 0.001 χ^2/NDF : 956.2/24

Right Out: 0.097 ± 0.006 χ^2/NDF : 2149.9/36

Left In: 0.010 ± 0.001 χ^2/NDF : 1216.1/22

Left: 0.012 ± 0.001 χ^2/NDF : 2176.2/47

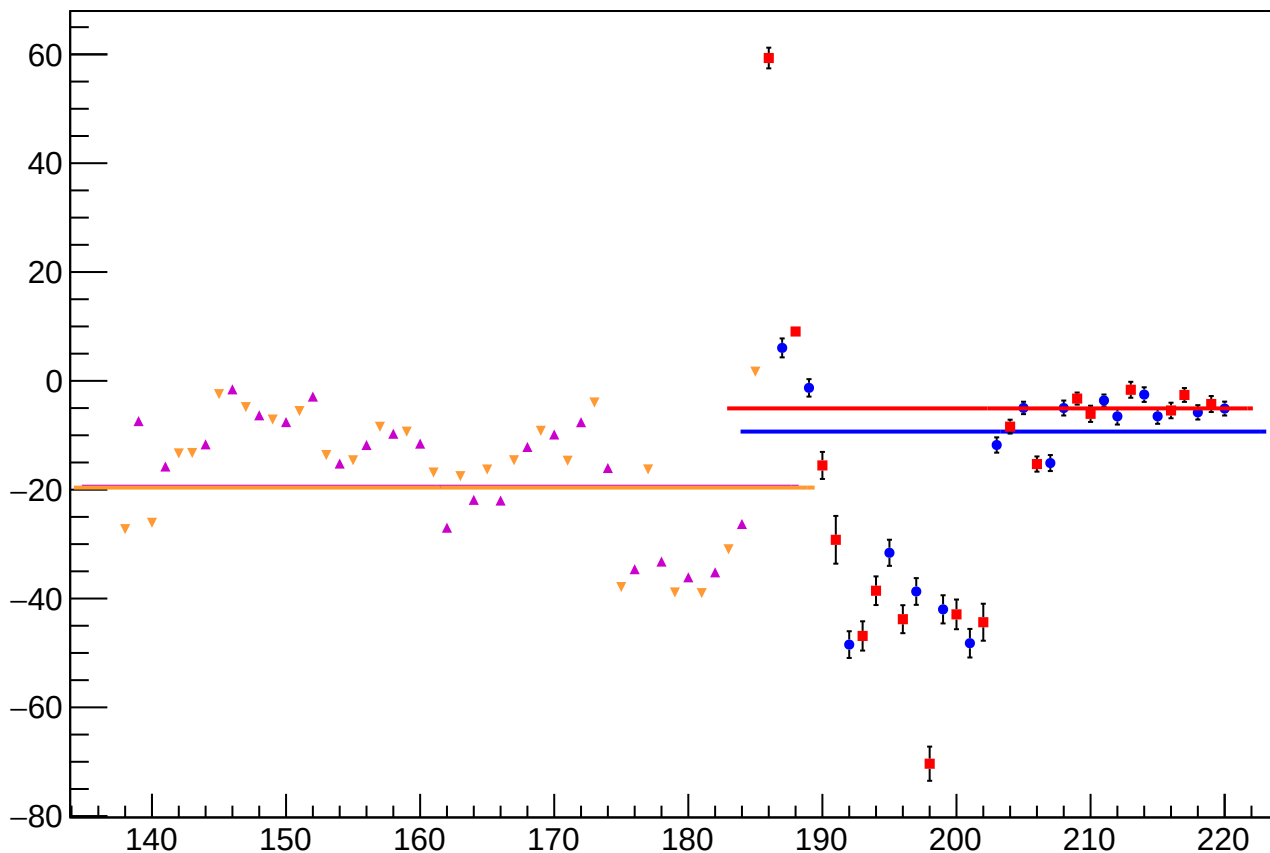
Right: 0.082 ± 0.004 χ^2/NDF : 4246.7/70

In: 0.014 ± 0.001 χ^2/NDF : 3393.2/56

Out: 0.019 ± 0.001 χ^2/NDF : 3298.3/61

All: 0.016 ± 0.001 χ^2/NDF : 6698.3/118

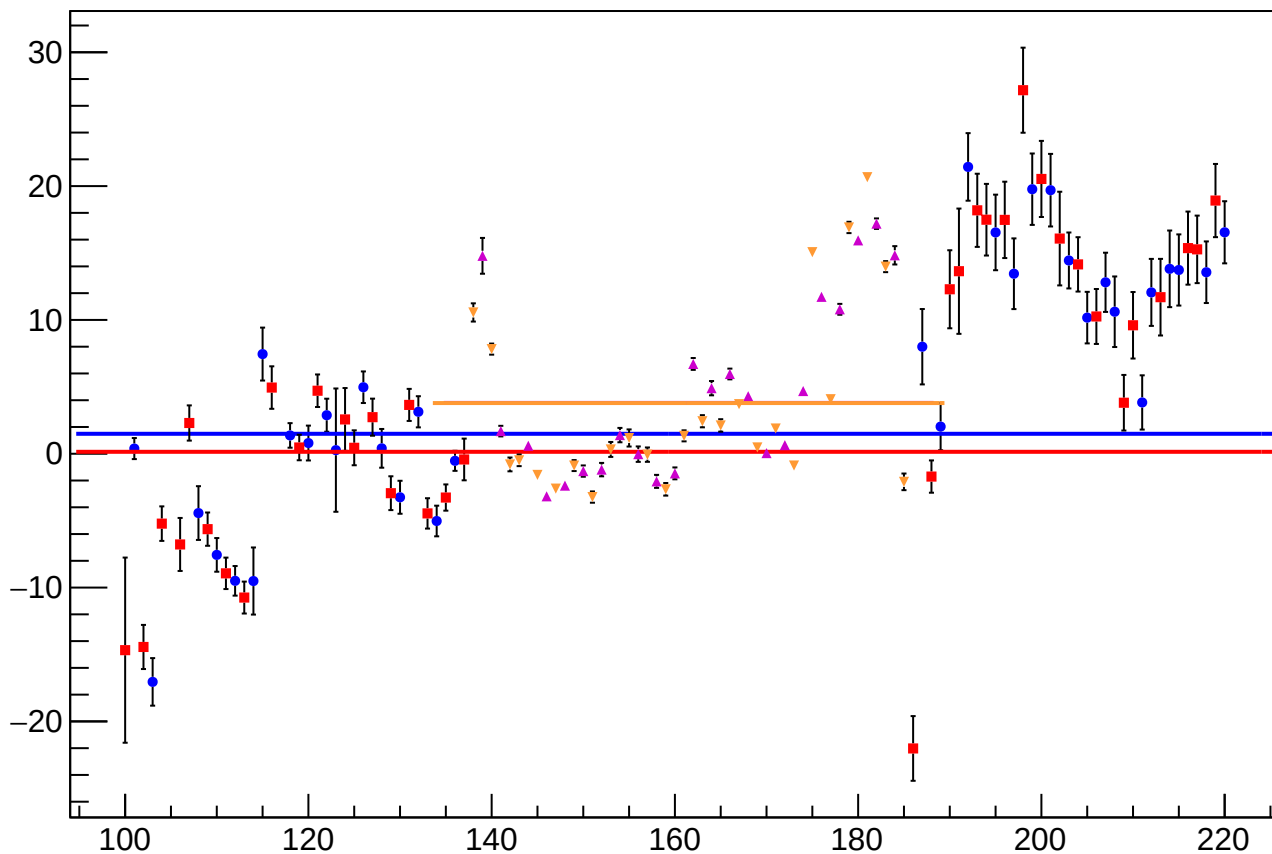
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.320 ± 0.370 χ^2/NDF : 1086.9/16
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: -5.061 ± 0.376 χ^2/NDF : 2935.2/17
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47
 Right: -7.227 ± 0.264 χ^2/NDF : 4087.4/34
 In: -18.693 ± 0.101 χ^2/NDF : 14064.8/39
 Out: -18.593 ± 0.100 χ^2/NDF : 20088.3/42
 All: -18.643 ± 0.071 χ^2/NDF : 34153.6/82

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.492 $\pm$ 0.261 χ^2 /NDF: 799.8/33

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF:7150.5/24

Right Out: 0.146 $\pm$ 0.267 χ^2 /NDF: 949.8/36

Left In: 3.799 $\pm$ 0.084 χ^2 /NDF:5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2 /NDF: 12667.5/47

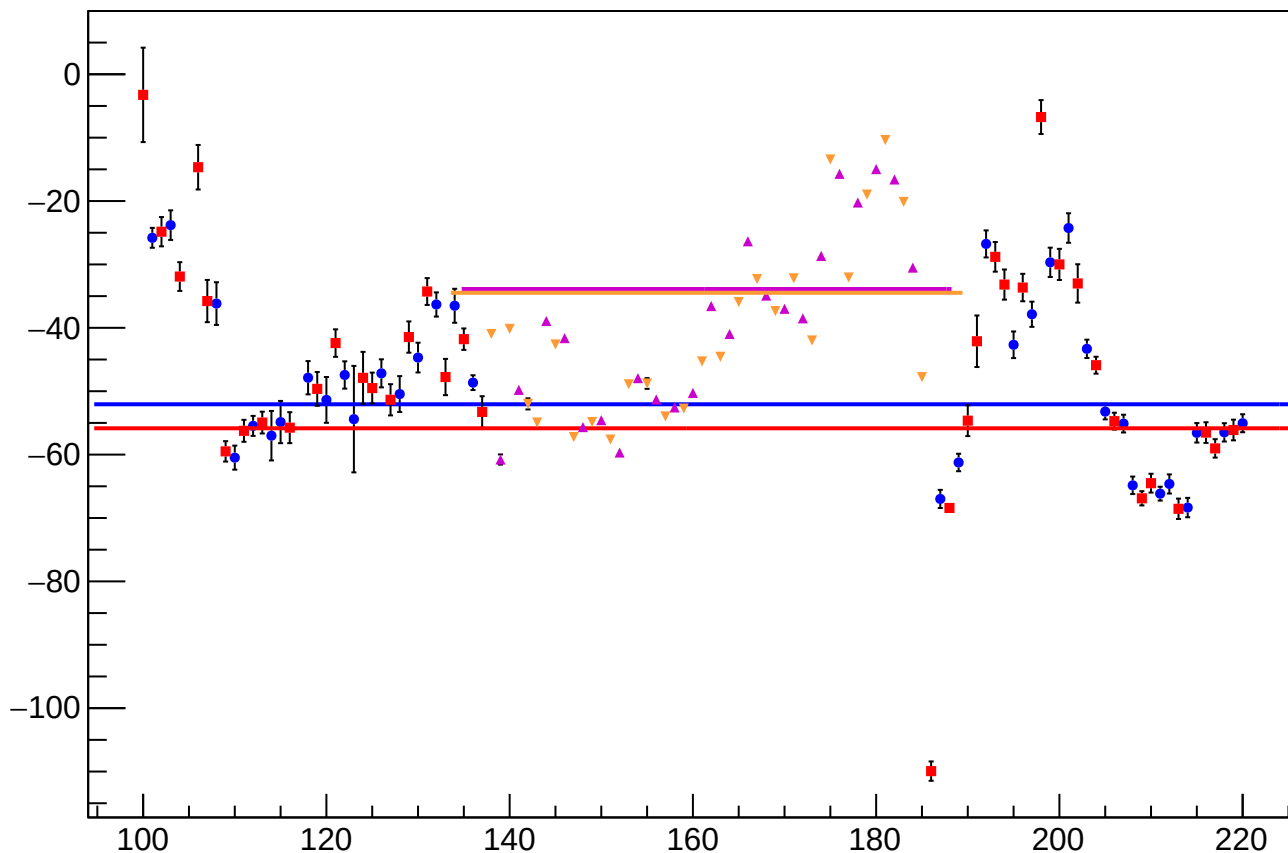
Right: 0.834 $\pm$ 0.187 χ^2 /NDF: 1762.7/70

In: 3.584 $\pm$ 0.080 χ^2 /NDF:6387.7/56

Out: 3.473 $\pm$ 0.078 χ^2 /NDF:8270.6/61

All: 3.528 $\pm$ 0.056 χ^2 /NDF: 14659.3/118

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

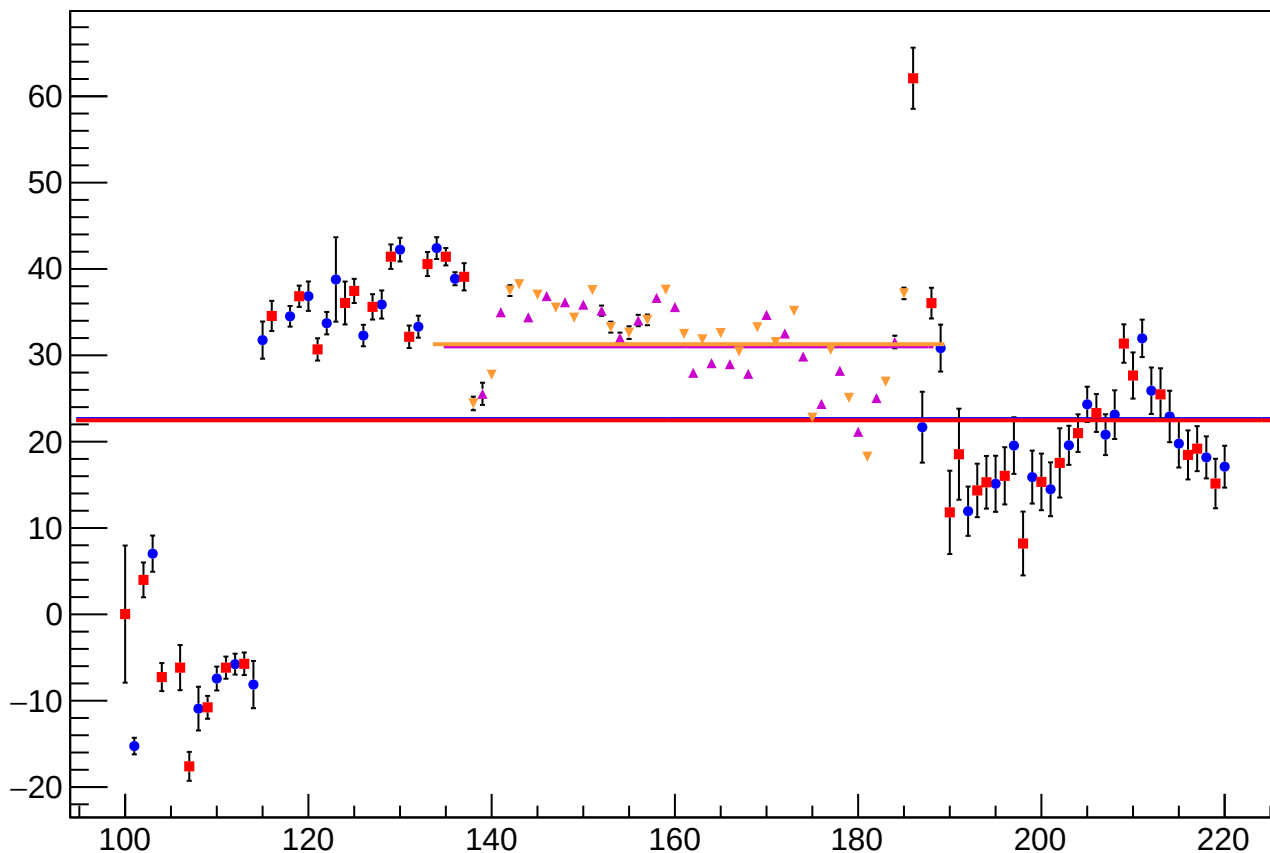


Right In: -52.060 ± 0.302 $\chi^2/\text{NDF}: 1707.8/33$
 Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$
 Right Out: -55.850 ± 0.297 $\chi^2/\text{NDF}: 3485.7/36$
 Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$
 Right: -53.985 ± 0.212 $\chi^2/\text{NDF}: 5273.6/70$
 In: -35.849 ± 0.099 $\chi^2/\text{NDF}: 22585.0/56$
 Out: -36.804 ± 0.098 $\chi^2/\text{NDF}: 28297.5/61$

All: -36.333 ± 0.070 $\chi^2/\text{NDF}: 50929.2/118$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.613 $\pm$ 0.293 χ^2 /NDF: 4391.7/33

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.478 $\pm$ 0.303 χ^2 /NDF: 4288.6/36

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

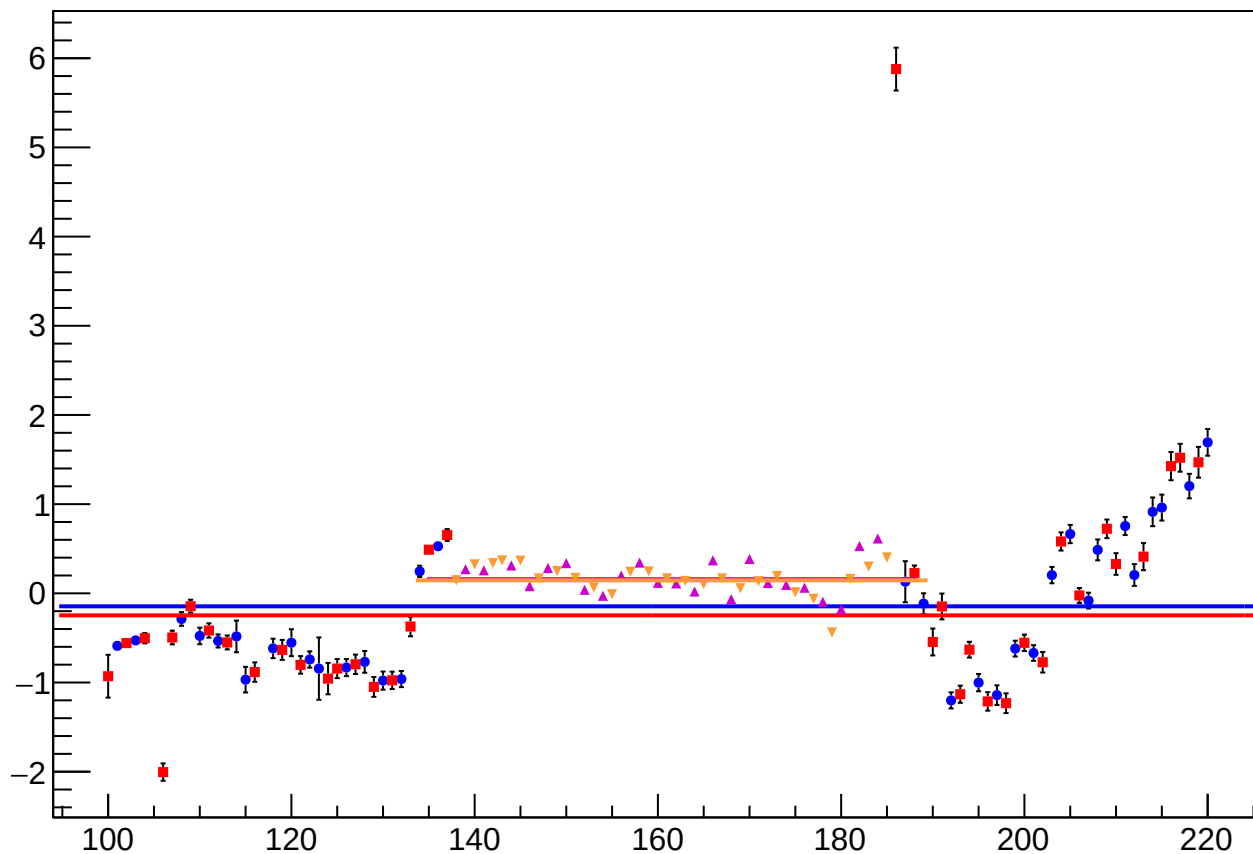
Right: 22.548 $\pm$ 0.211 χ^2 /NDF: 8680.5/70

In: 30.250 $\pm$ 0.090 χ^2 /NDF:7621.2/56

Out: 30.537 $\pm$ 0.088 χ^2 /NDF:8407.4/61

All: 30.396 $\pm$ 0.063 χ^2 /NDF: 16033.8/118

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.146 ± 0.015 χ^2/NDF : 1902.8/33

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.247 ± 0.015 χ^2/NDF : 2718.8/36

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

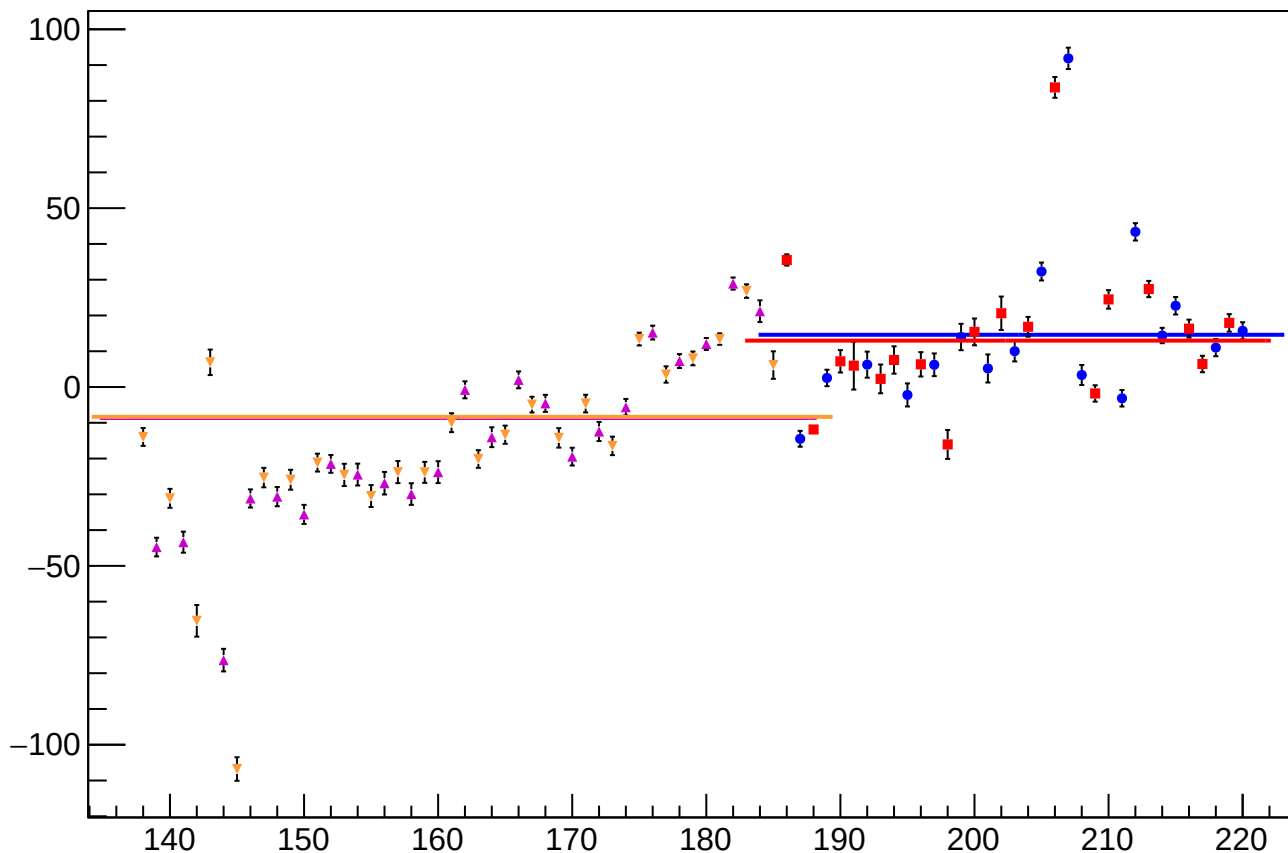
Right: -0.195 ± 0.011 χ^2/NDF : 4644.7/70

In: 0.135 ± 0.004 χ^2/NDF : 4304.6/56

Out: 0.117 ± 0.004 χ^2/NDF : 4928.6/61

All: 0.126 ± 0.003 χ^2/NDF : 9243.2/118

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.602 $\pm$ 0.644 χ^2 /NDF: 1195.0/16

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.968 $\pm$ 0.590 χ^2 /NDF: 1388.6/17

Left In: -8.652 $\pm$ 0.507 χ^2 /NDF: 2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

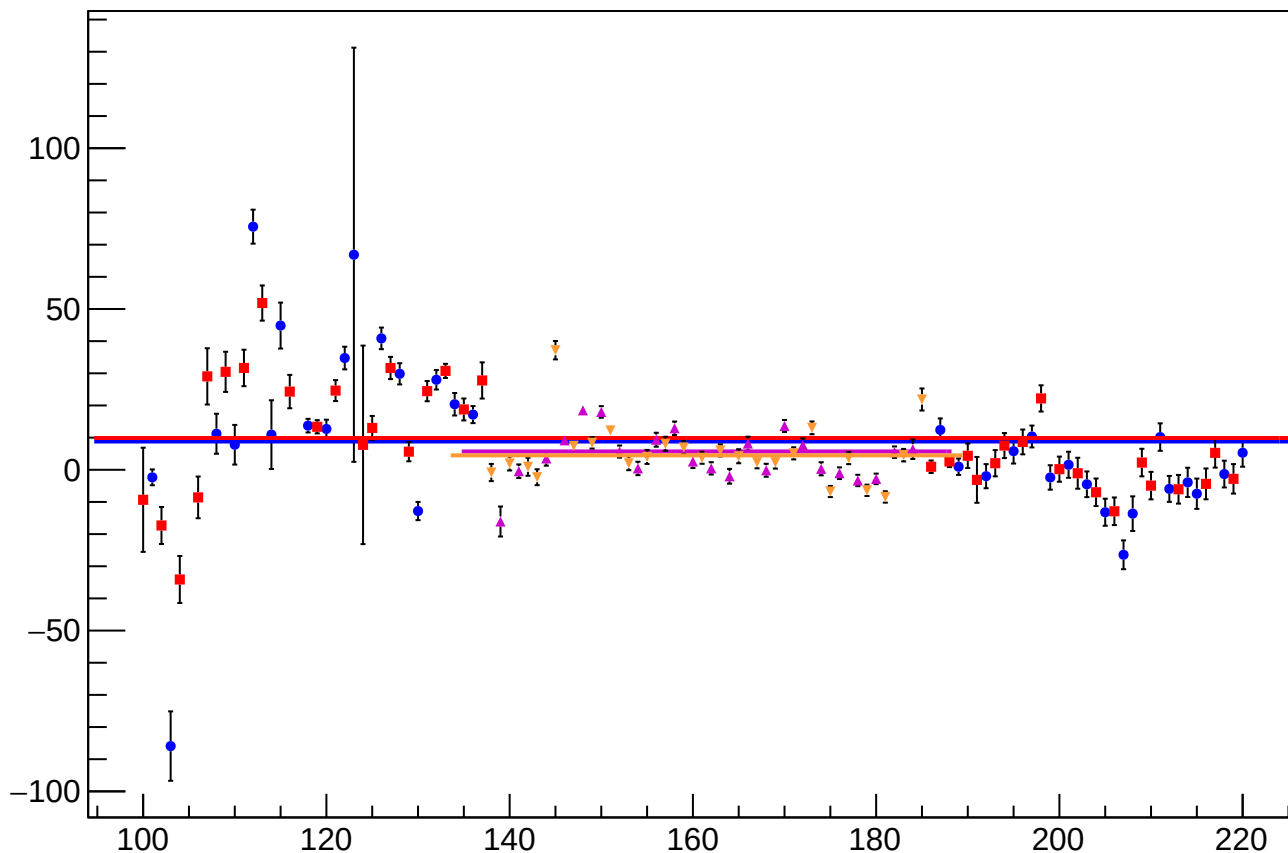
Right: 13.714 $\pm$ 0.435 χ^2 /NDF: 2587.1/34

In: 0.253 $\pm$ 0.398 χ^2 /NDF: 4223.8/39

Out: 0.563 $\pm$ 0.381 χ^2 /NDF: 4373.9/42

All: 0.415 $\pm$ 0.275 χ^2 /NDF: 8598.1/82

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.791 ± 0.637 χ^2/NDF : 785.0/33

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 9.883 ± 0.609 χ^2/NDF : 517.9/36

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

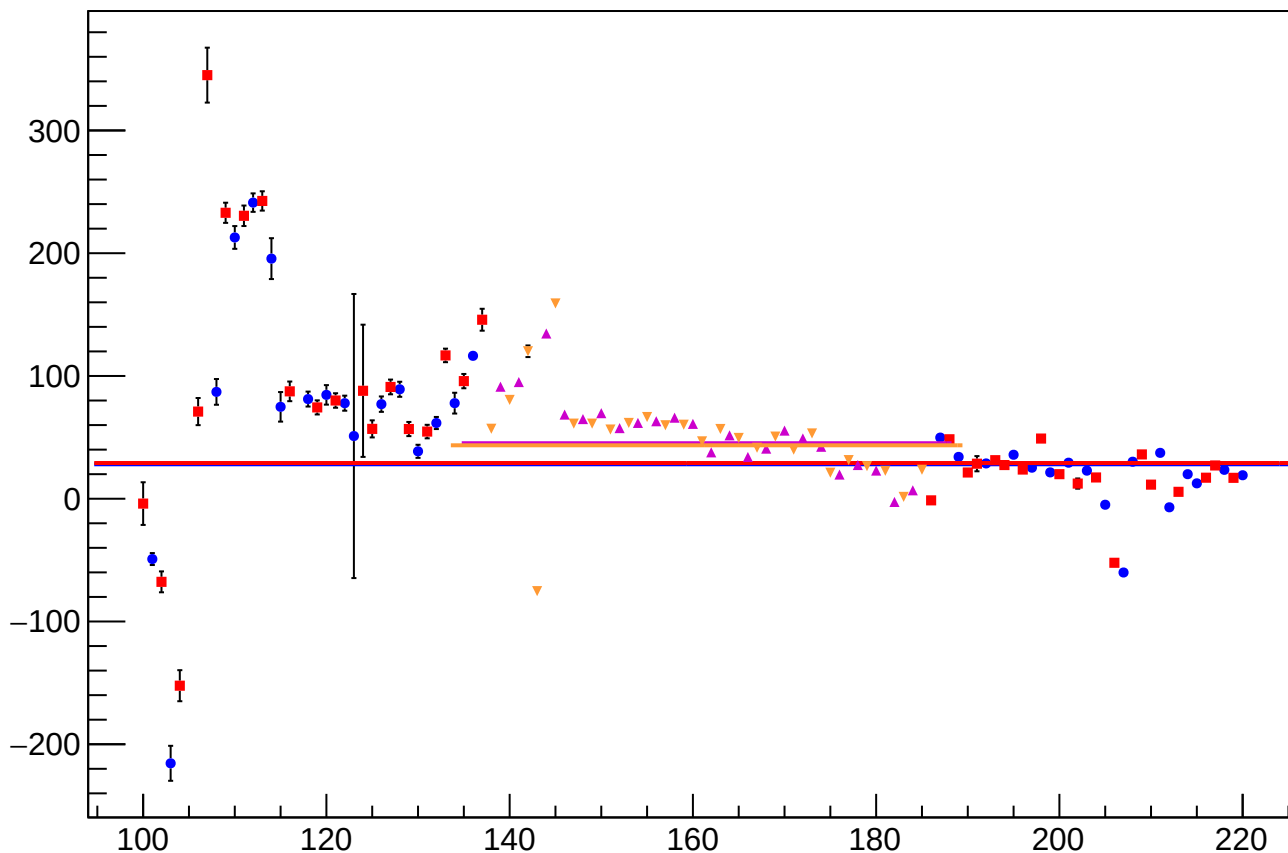
Right: 9.362 ± 0.440 χ^2/NDF : 1304.4/70

In: 6.590 ± 0.341 χ^2/NDF : 1125.7/56

Out: 6.067 ± 0.330 χ^2/NDF : 945.3/61

All: 6.319 ± 0.237 χ^2/NDF : 2072.3/118

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.073+/-0.583 χ^2/NDF : 4362.1/33

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 29.097+/-0.514 χ^2/NDF : 5487.3/36

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

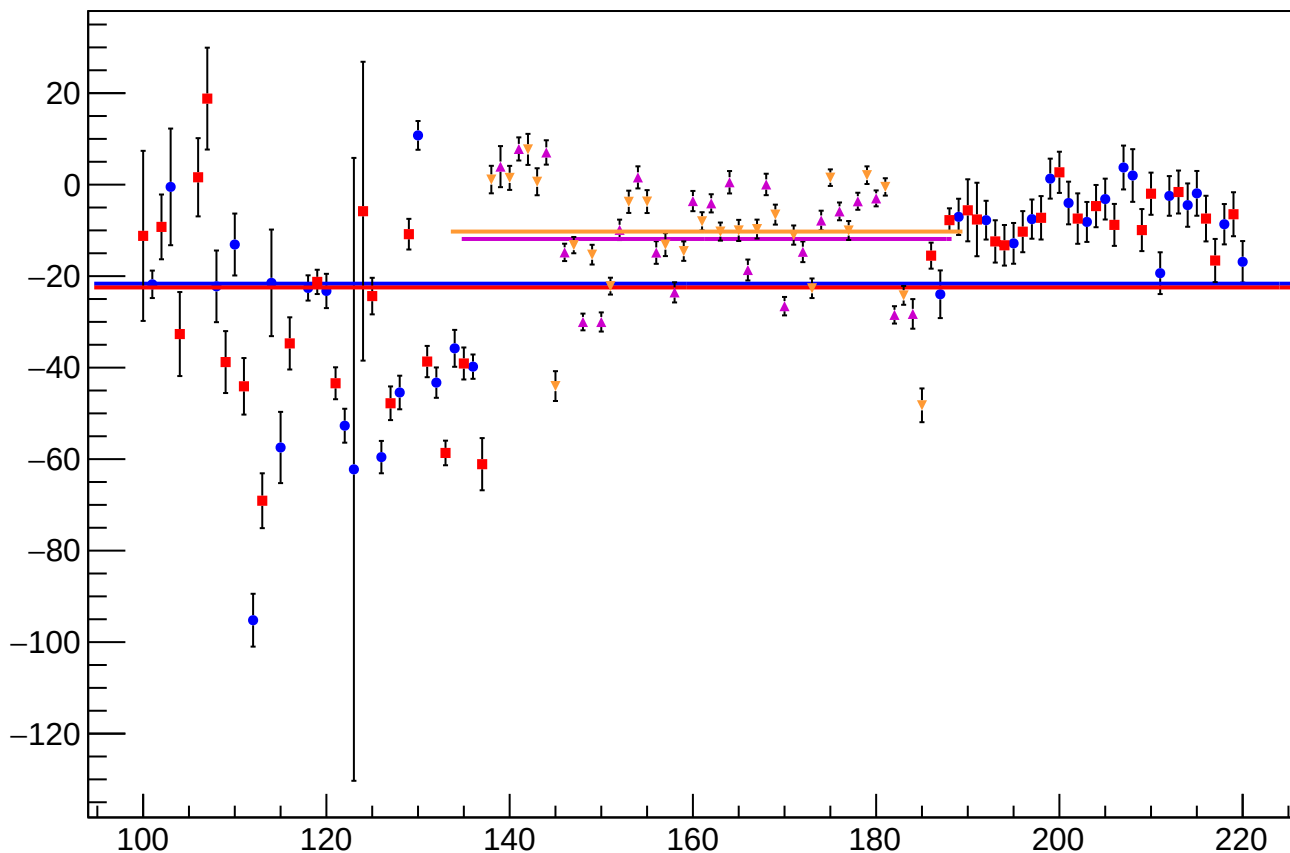
Right: 28.649+/-0.386 χ^2/NDF : 9851.1/70

In: 37.870+/-0.381 χ^2/NDF : 7905.3/56

Out: 36.537+/-0.358 χ^2/NDF : 9723.8/61

All: 37.161+/-0.261 χ^2/NDF : 17635.6/118

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.650 ± 0.734 χ^2/NDF : 834.7/33

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -22.474 ± 0.726 χ^2/NDF : 683.6/36

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

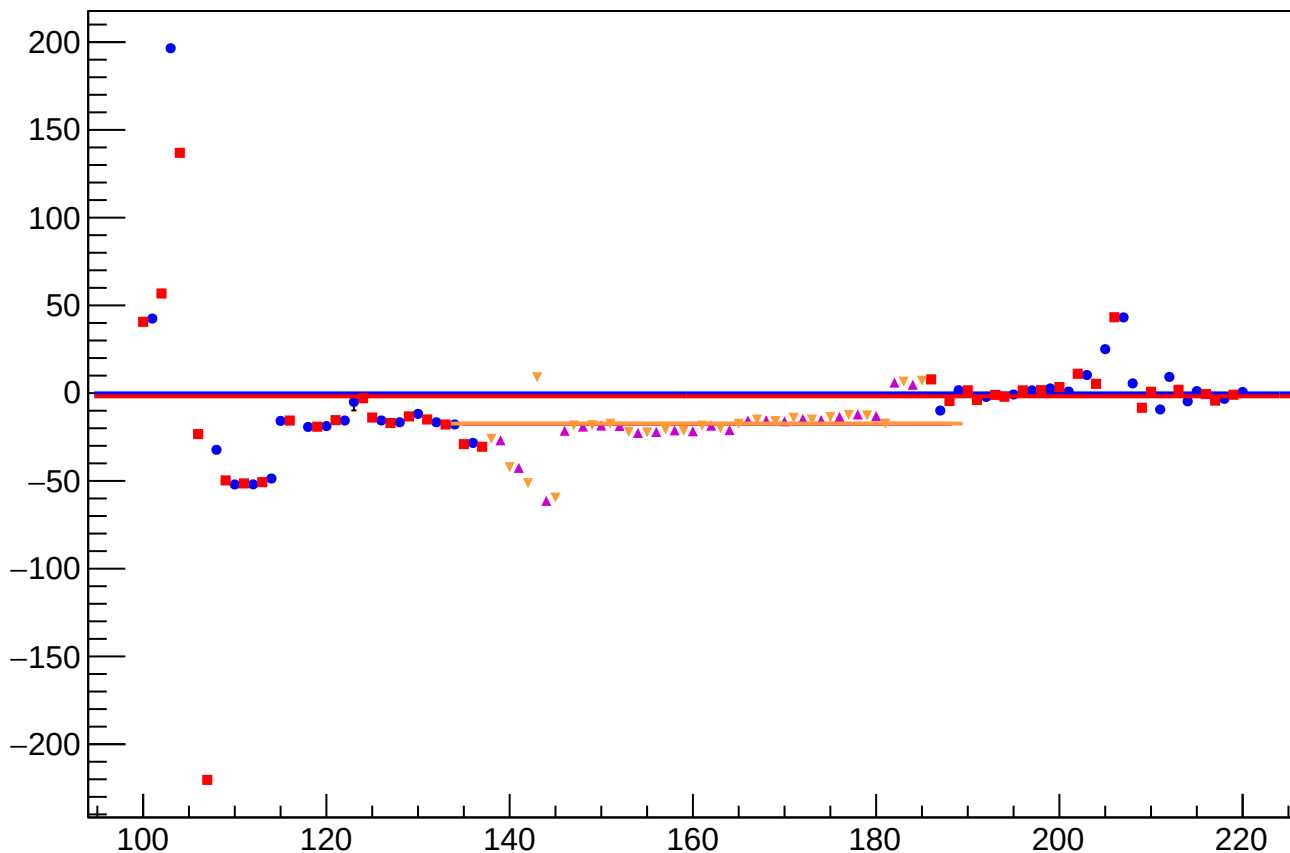
Right: -22.066 ± 0.516 χ^2/NDF : 1519.0/70

In: -14.599 ± 0.387 χ^2/NDF : 1628.9/56

Out: -13.585 ± 0.379 χ^2/NDF : 1442.0/61

All: -14.081 ± 0.271 χ^2/NDF : 3074.4/118

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.143 ± 0.035 χ^2/NDF : 678480.5/33

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.804 ± 0.034 χ^2/NDF : 672422.7/36

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

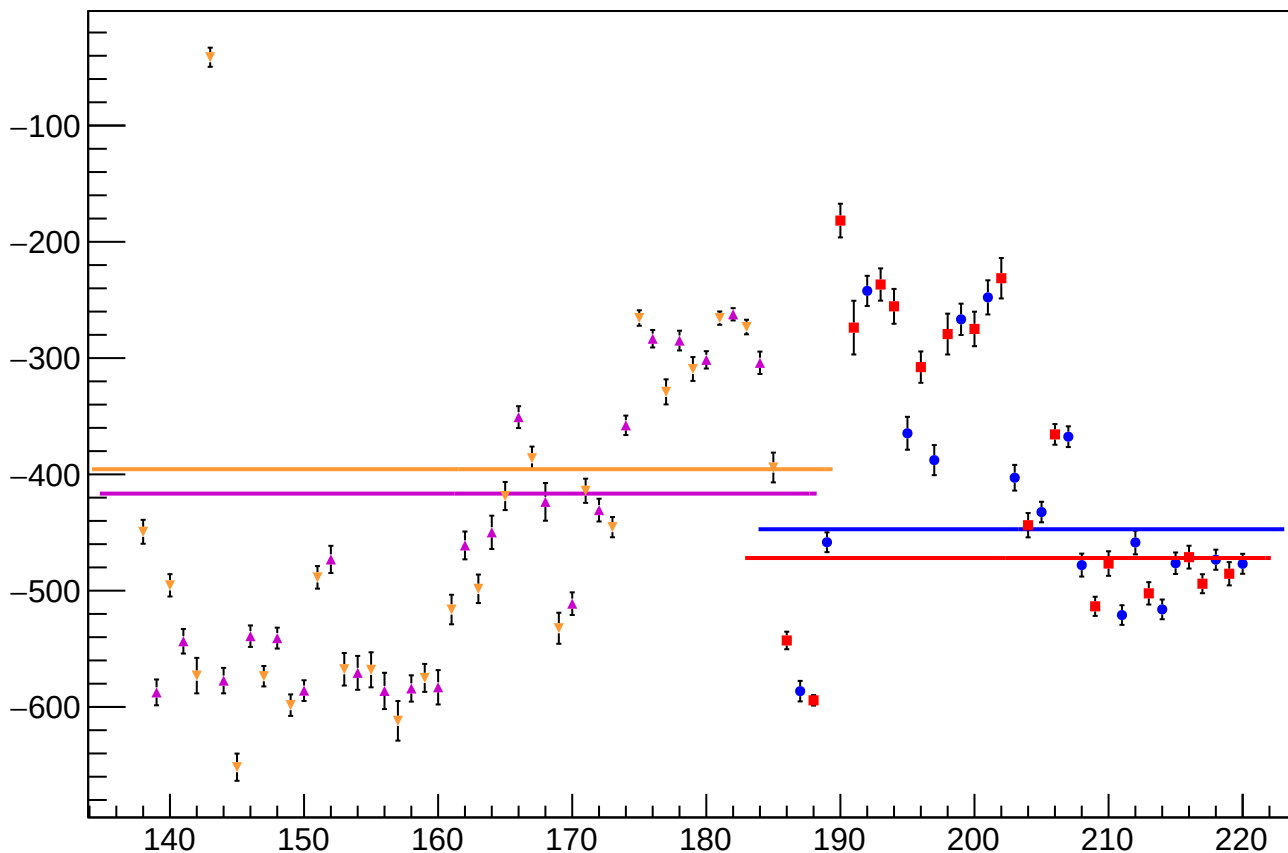
Right: -0.990 ± 0.024 χ^2/NDF : 1352056.2/70

In: -12.986 ± 0.018 χ^2/NDF : 1120525.0/56

Out: -13.263 ± 0.018 χ^2/NDF : 1149467.8/61

All: -13.127 ± 0.012 χ^2/NDF : 2270116.1/118

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -447.174 $\pm$ 2.400 χ^2 /NDF: 1203.9/16

Left Out: -395.547 $\pm$ 1.953 χ^2 /NDF: 5946.5/24

Right Out: -471.926 $\pm$ 2.283 χ^2 /NDF: 2636.0/17

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

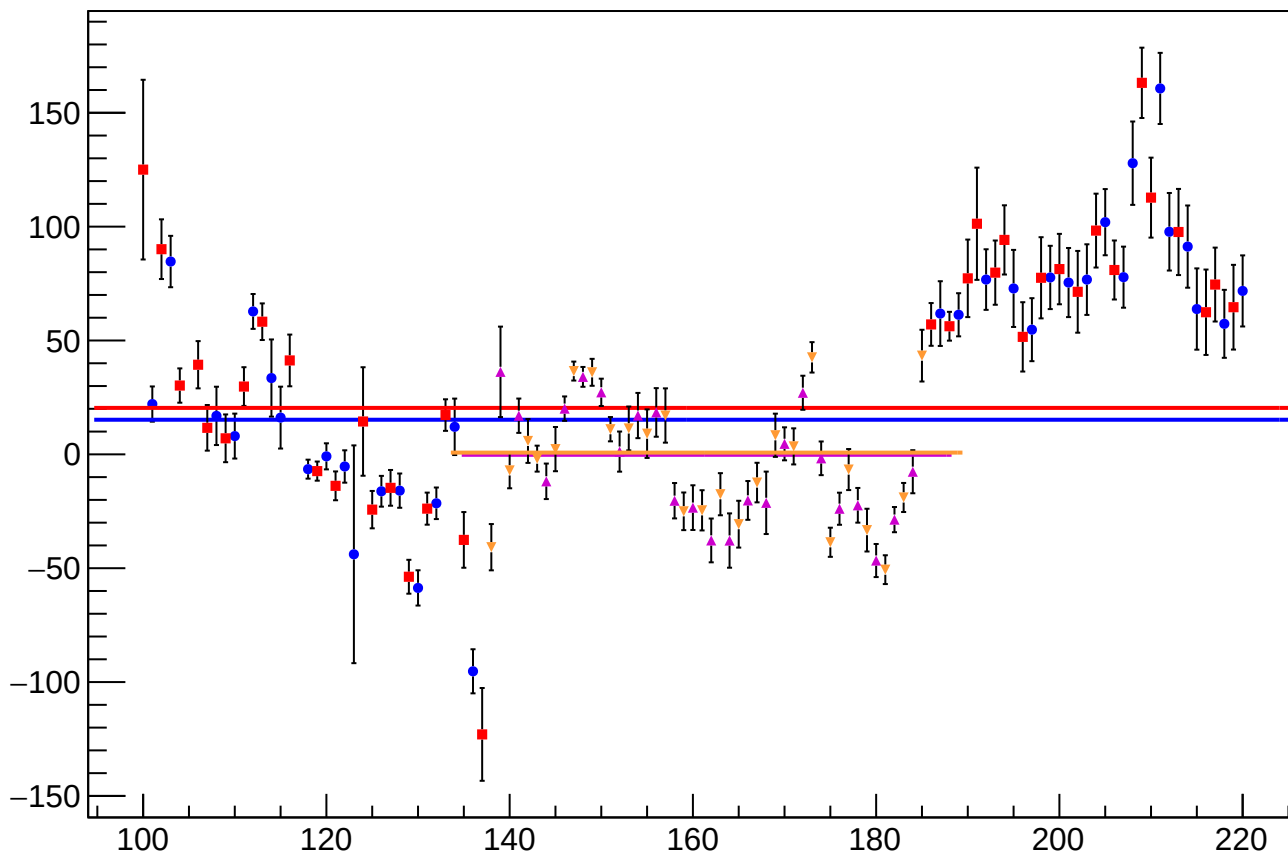
Right: -460.169 $\pm$ 1.654 χ^2 /NDF: 3895.7/34

In: -429.118 $\pm$ 1.539 χ^2 /NDF: 5217.0/39

Out: -427.833 $\pm$ 1.484 χ^2 /NDF: 9228.7/42

All: -428.452 $\pm$ 1.068 χ^2 /NDF: 14446.0/82

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.200 ± 1.692 $\chi^2/\text{NDF}: 791.0/33$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 20.400 ± 1.650 $\chi^2/\text{NDF}: 748.2/36$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

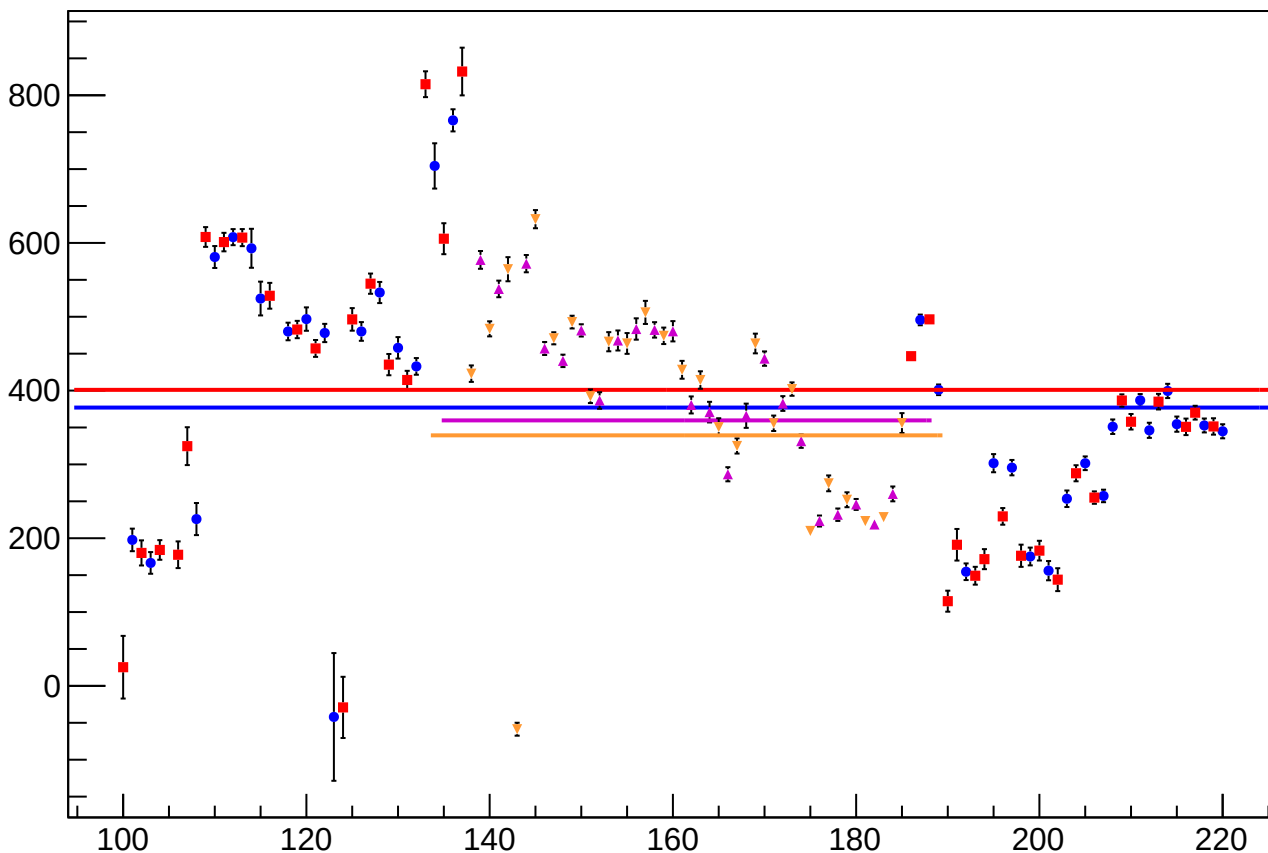
Right: 17.865 ± 1.181 $\chi^2/\text{NDF}: 1544.1/70$

In: 6.948 ± 1.153 $\chi^2/\text{NDF}: 1096.2/56$

Out: 9.667 ± 1.111 $\chi^2/\text{NDF}: 1175.7/61$

All: 8.357 ± 0.800 $\chi^2/\text{NDF}: 2274.8/118$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 376.985 ± 1.966 $\chi^2/\text{NDF}: 4154.7/33$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 400.980 ± 1.802 $\chi^2/\text{NDF}: 6165.0/36$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

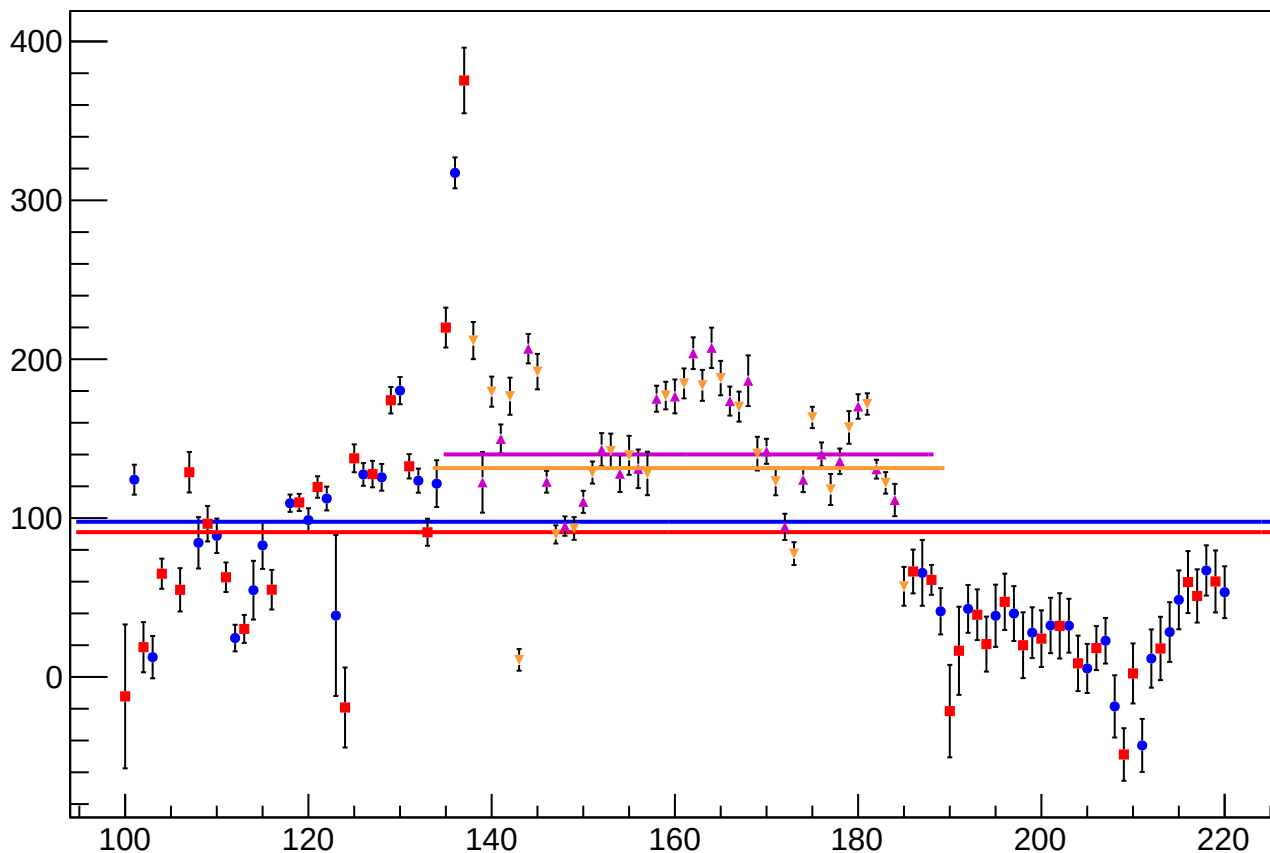
Right: 390.024 ± 1.328 $\chi^2/\text{NDF}: 10400.7/70$

In: 368.458 ± 1.403 $\chi^2/\text{NDF}: 7591.5/56$

Out: 372.789 ± 1.327 $\chi^2/\text{NDF}: 12202.4/61$

All: 370.743 ± 0.964 $\chi^2/\text{NDF}: 19799.0/118$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 97.687 $\pm$ 1.958 χ^2/NDF : 1110.3/33

Left Out: 131.464 $\pm$ 1.728 χ^2/NDF :809.3/24

Right Out: 91.156 $\pm$ 1.930 χ^2/NDF : 906.3/36

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

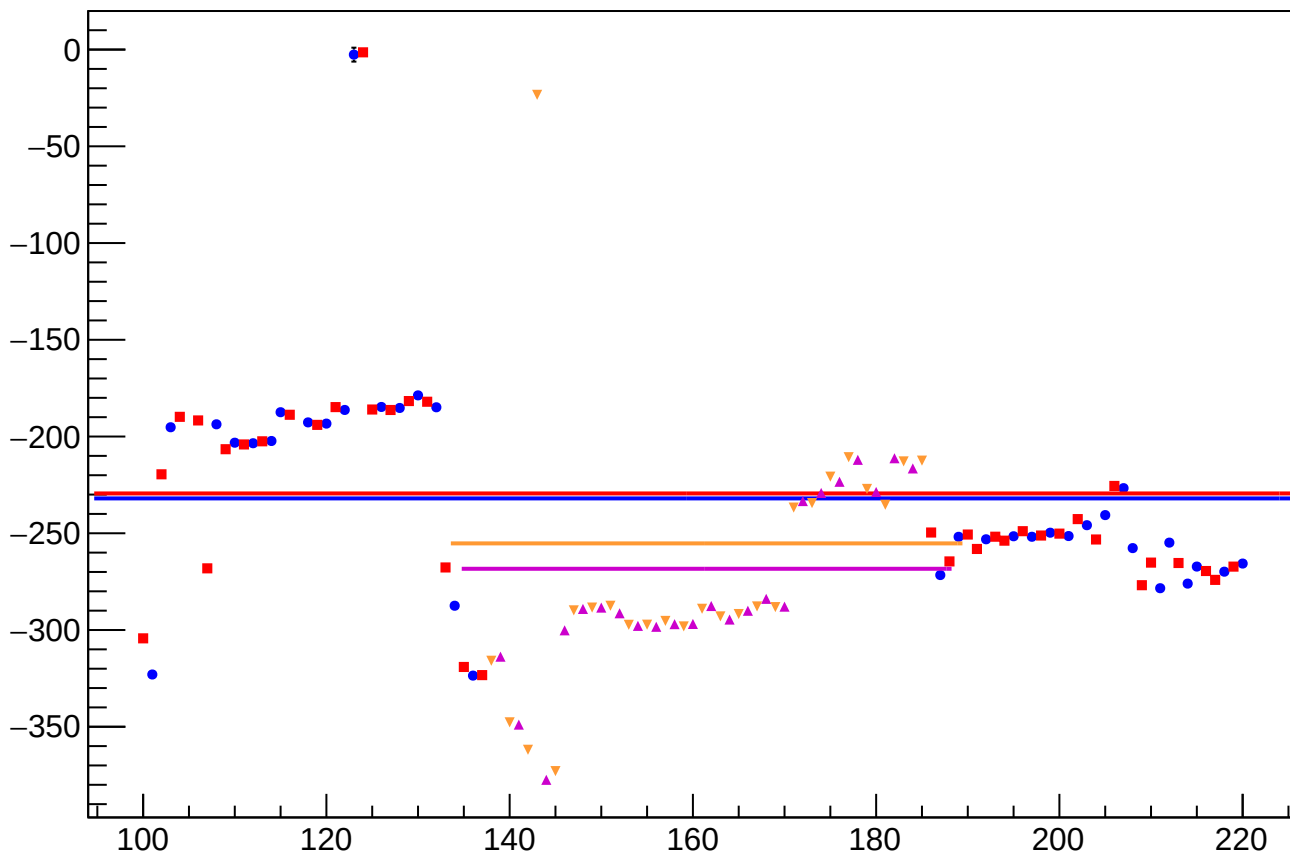
Right: 94.374 $\pm$ 1.374 χ^2/NDF : 2022.3/70

In: 120.715 $\pm$ 1.323 χ^2/NDF :1681.4/56

Out: 113.533 $\pm$ 1.287 χ^2/NDF :1957.8/61

All: 117.025 $\pm$ 0.923 χ^2/NDF : 3654.3/118

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -231.983 ± 0.104 $\chi^2/\text{NDF}: 179611.2/33$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -229.415 ± 0.100 $\chi^2/\text{NDF}: 161045.5/36$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

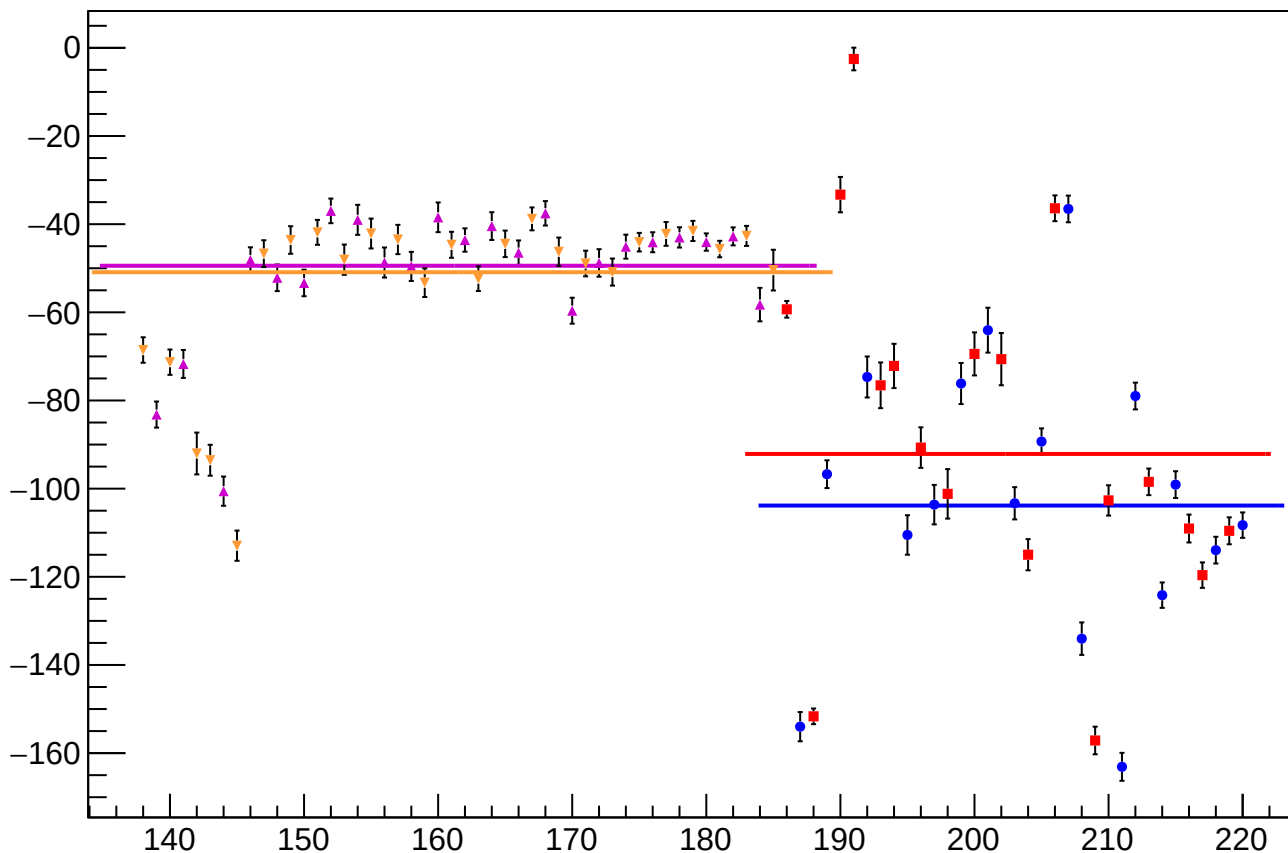
Right: -230.649 ± 0.072 $\chi^2/\text{NDF}: 340973.4/70$

In: -254.077 ± 0.065 $\chi^2/\text{NDF}: 516338.4/56$

Out: -244.860 ± 0.063 $\chi^2/\text{NDF}: 928922.7/61$

All: -249.341 ± 0.045 $\chi^2/\text{NDF}: 1455537.9/11$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -103.838 ± 0.829 $\chi^2/\text{NDF}: 1437.2/16$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -92.126 ± 0.734 $\chi^2/\text{NDF}: 3914.8/17$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

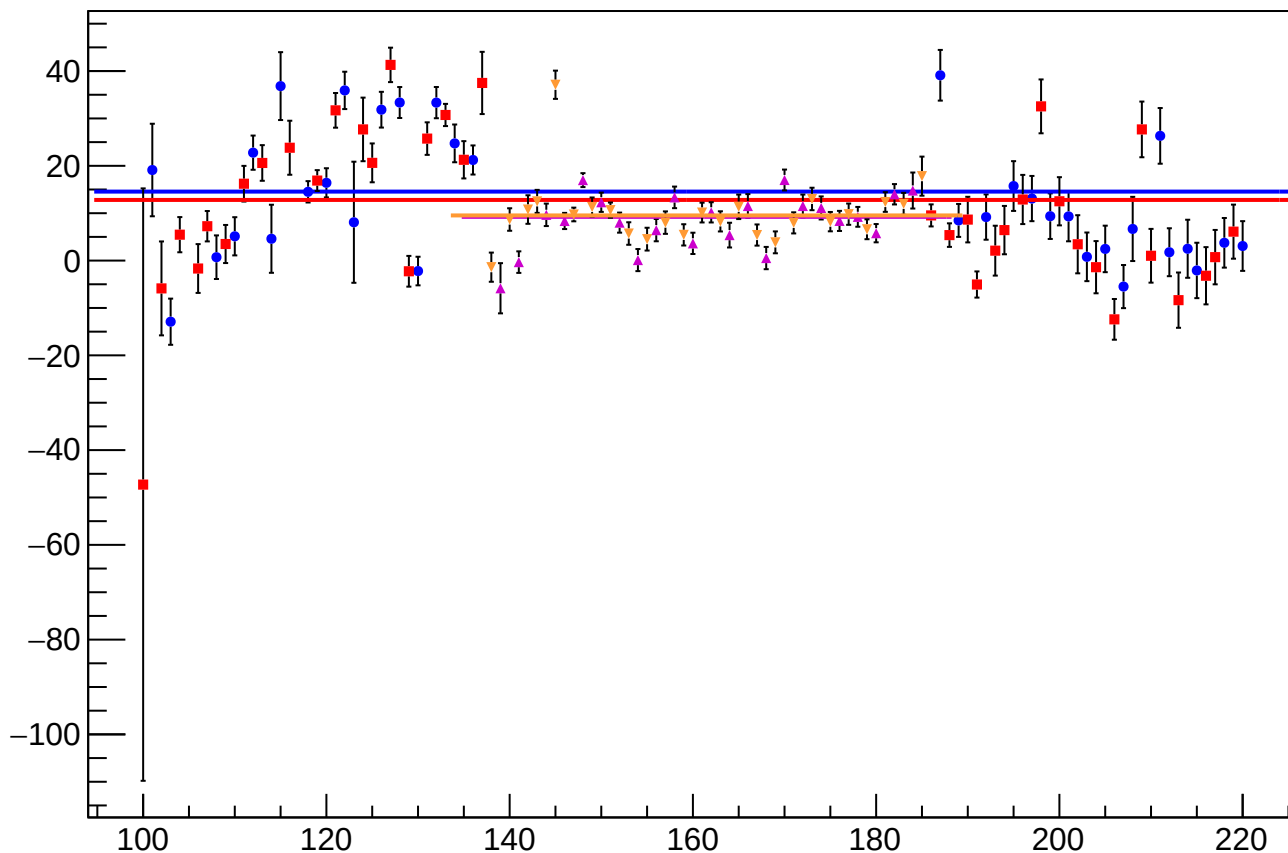
Right: -97.275 ± 0.549 $\chi^2/\text{NDF}: 5464.0/34$

In: -67.488 ± 0.477 $\chi^2/\text{NDF}: 4861.7/39$

Out: -66.505 ± 0.452 $\chi^2/\text{NDF}: 6637.5/42$

All: -66.969 ± 0.328 $\chi^2/\text{NDF}: 11501.5/82$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.561 ± 0.735 χ^2/NDF : 315.1/33

Left Out: 9.530 ± 0.446 χ^2/NDF : 134.4/24

Right Out: 12.801 ± 0.655 χ^2/NDF : 398.0/36

Left In: 9.231 ± 0.462 χ^2/NDF : 124.0/22

Left: 9.386 ± 0.321 χ^2/NDF : 258.5/47

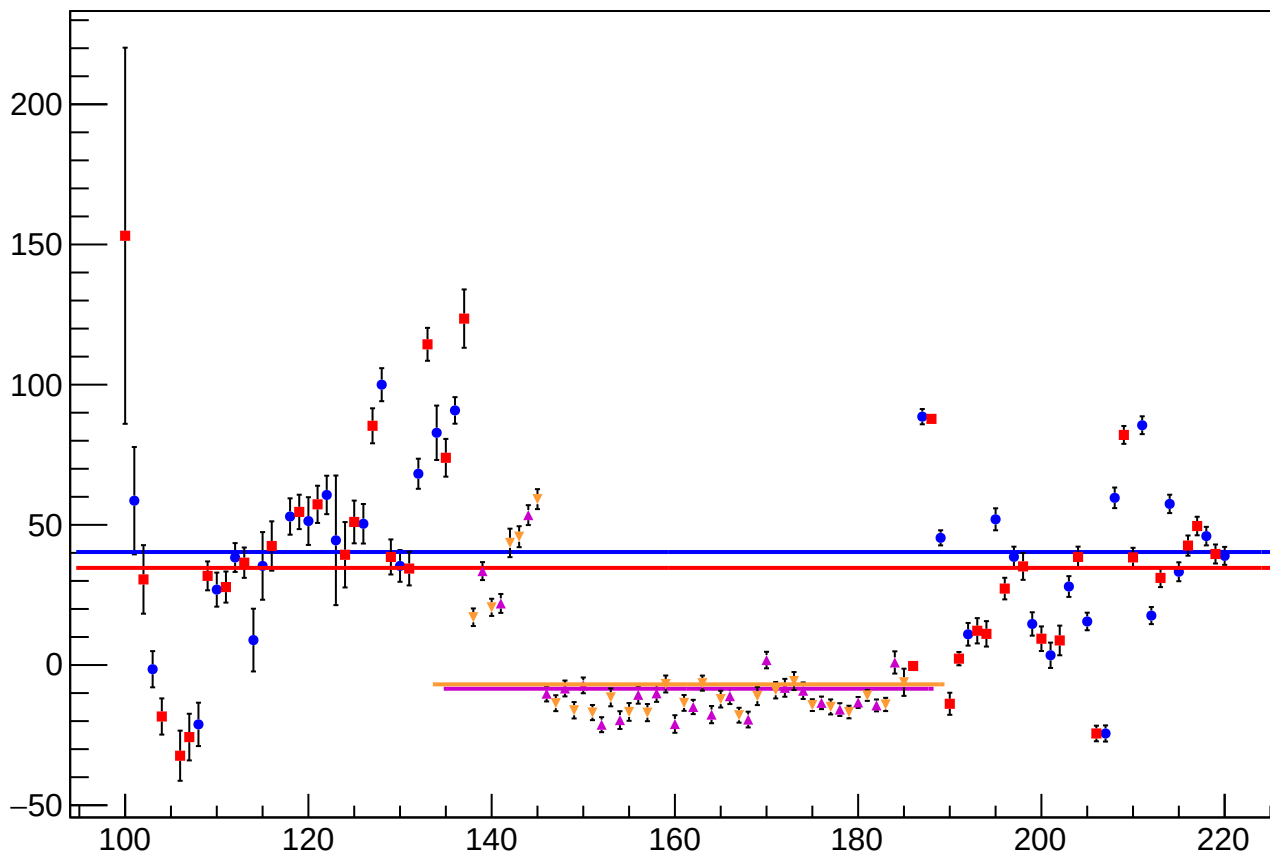
Right: 13.580 ± 0.489 χ^2/NDF : 716.3/70

In: 10.740 ± 0.391 χ^2/NDF : 476.8/56

Out: 10.567 ± 0.369 χ^2/NDF : 549.4/61

All: 10.648 ± 0.268 χ^2/NDF : 1026.3/118

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.309+/-0.729 χ^2/NDF : 1780.9/33

Left Out: -6.888+/-0.571 χ^2/NDF : 914.2/24

Right Out: 34.645+/-0.622 χ^2/NDF : 3626.6/36

Left In: -8.451+/-0.580 χ^2/NDF : 688.9/22

Left: -7.658+/-0.407 χ^2/NDF : 1606.8/47

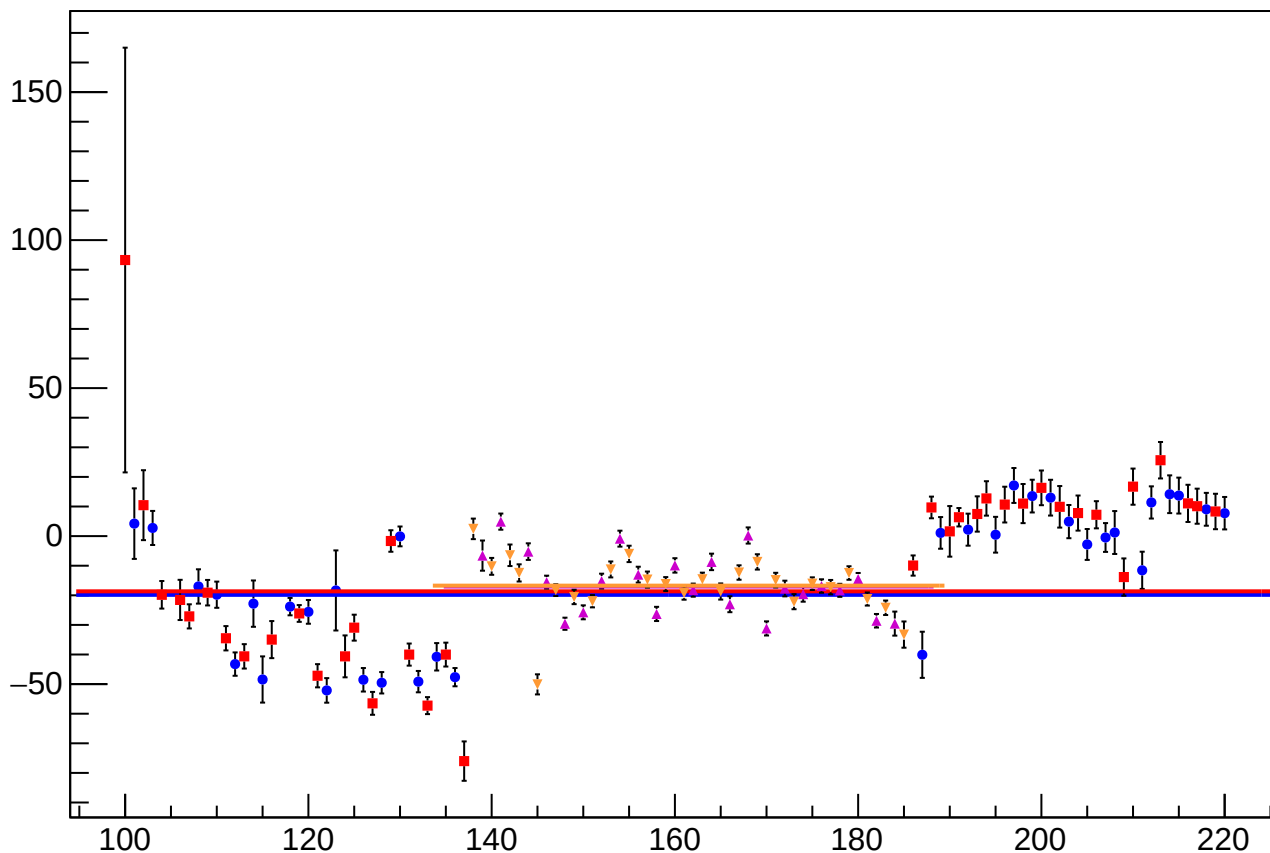
Right: 37.031+/-0.473 χ^2/NDF : 5442.5/70

In: 10.436+/-0.454 χ^2/NDF : 5209.2/56

Out: 12.104+/-0.421 χ^2/NDF : 6960.3/61

All: 11.333+/-0.309 χ^2/NDF : 12176.8/118

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -19.841 ± 0.838 χ^2/NDF : 811.2/33

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -18.654 ± 0.770 χ^2/NDF : 1058.8/36

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

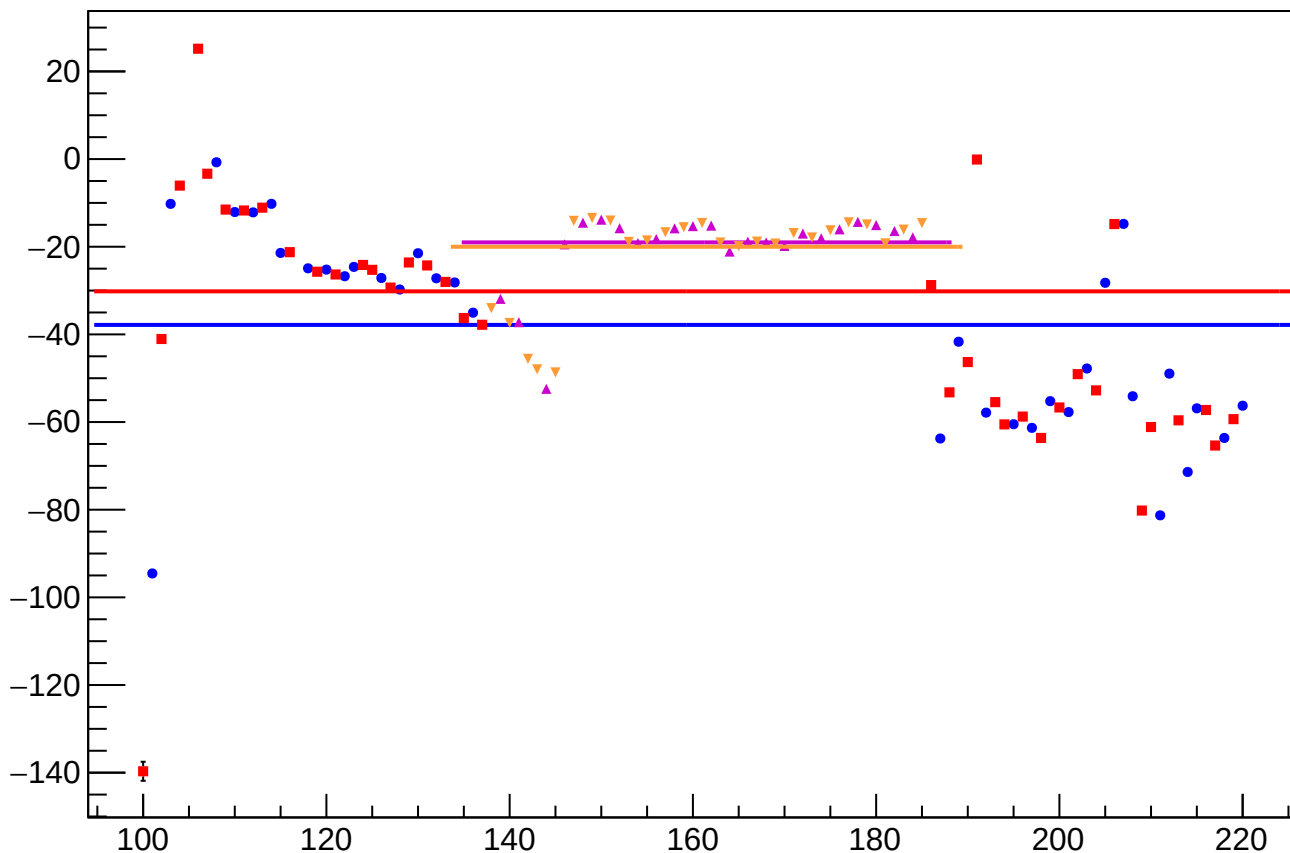
Right: -19.197 ± 0.567 χ^2/NDF : 1871.0/70

In: -17.810 ± 0.443 χ^2/NDF : 1146.9/56

Out: -17.313 ± 0.423 χ^2/NDF : 1286.4/61

All: -17.550 ± 0.306 χ^2/NDF : 2434.0/118

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.837 $\pm$ 0.040 χ^2 /NDF: 268889.6/33

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF:145623.8/24

Right Out: -30.179 $\pm$ 0.036 χ^2 /NDF: 492513.6/36

Left In: -19.007 $\pm$ 0.024 χ^2 /NDF:90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2 /NDF: 237400.2/47

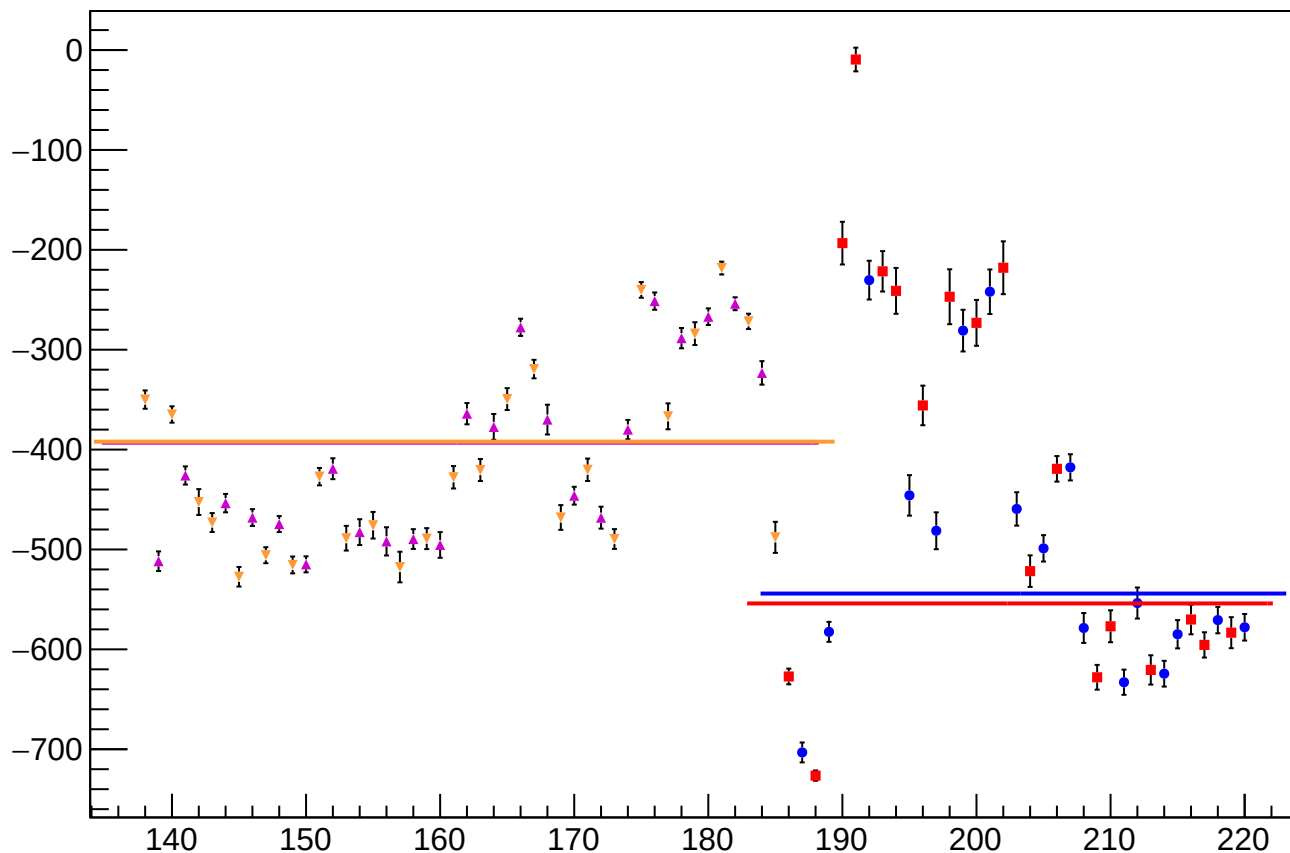
Right: -33.558 $\pm$ 0.027 χ^2 /NDF: 781813.2/70

In: -23.880 $\pm$ 0.020 χ^2 /NDF:523470.1/56

Out: -23.056 $\pm$ 0.019 χ^2 /NDF:695308.6/61

All: -23.450 $\pm$ 0.014 χ^2 /NDF: 1219632.2/118

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -544.133+/-3.434 χ^2/NDF : 1151.7/16

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -554.037+/-2.956 χ^2/NDF : 4769.8/17

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

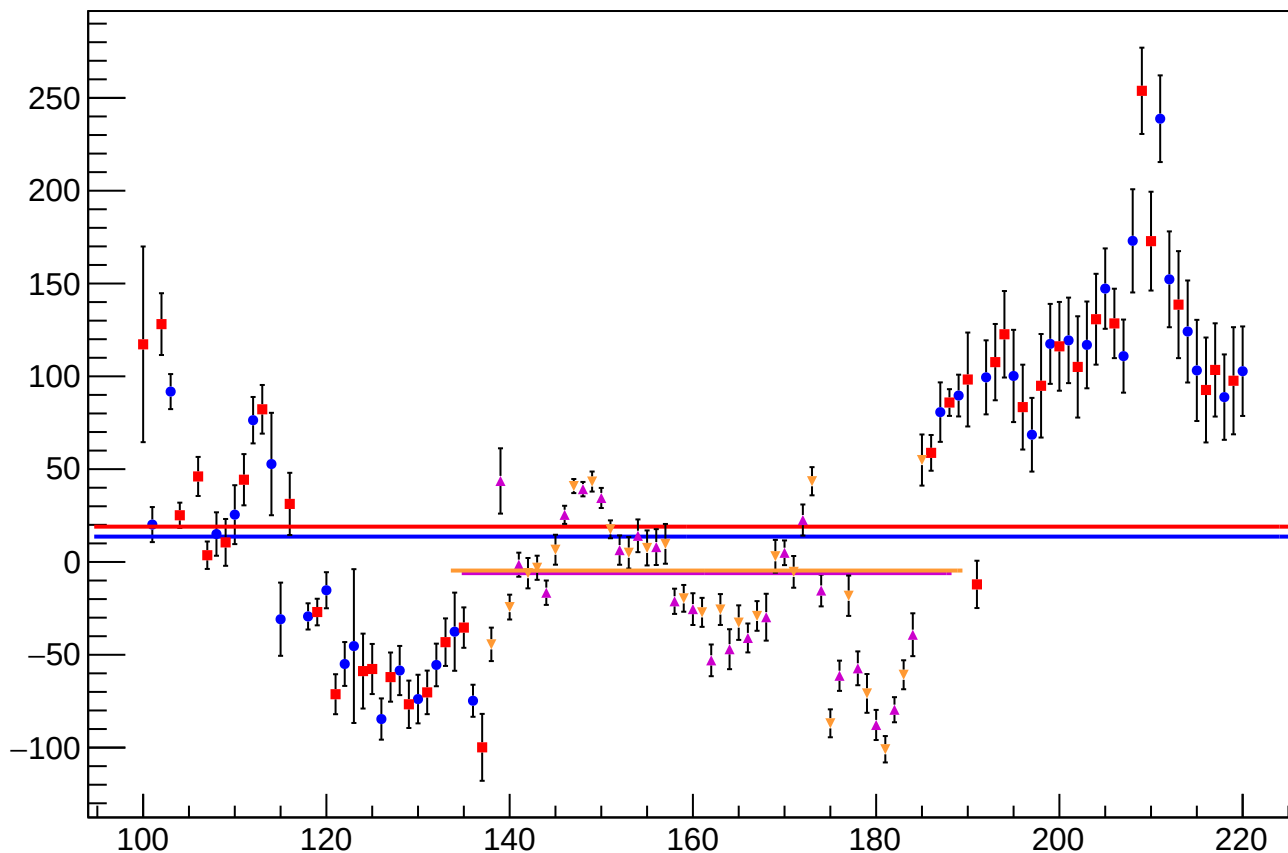
Right: -549.823+/-2.240 χ^2/NDF : 5926.3/34

In: -431.518+/-1.732 χ^2/NDF : 4847.0/39

Out: -441.756+/-1.637 χ^2/NDF : 9568.7/42

All: -436.924+/-1.190 χ^2/NDF : 14434.1/82

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.663+/-2.460 χ^2/NDF : 916.6/33

Left Out: -4.624+/-1.462 χ^2/NDF : 772.9/24

Right Out: 19.028+/-2.193 χ^2/NDF : 920.5/36

Left In: -6.019+/-1.516 χ^2/NDF : 654.1/22

Left: -5.296+/-1.053 χ^2/NDF : 1427.4/47

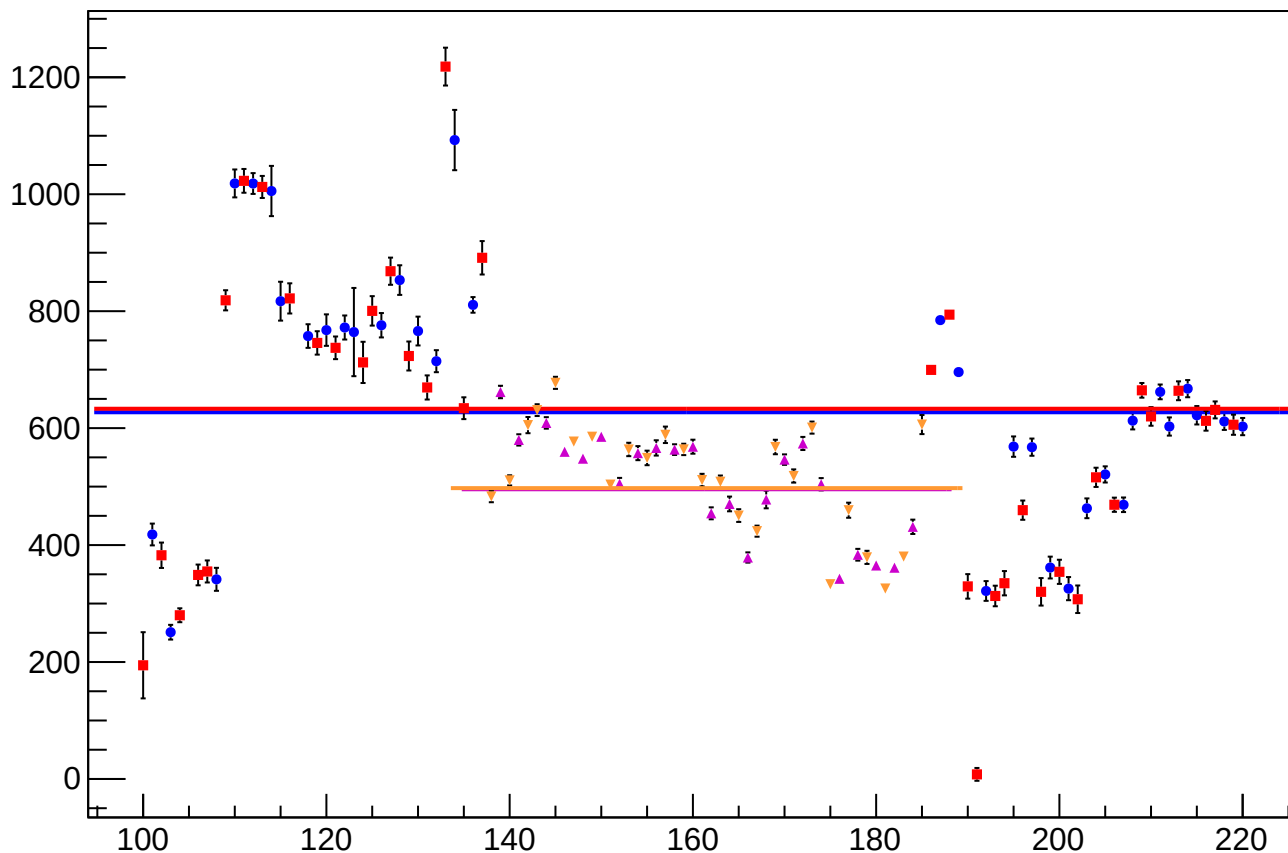
Right: 16.652+/-1.637 χ^2/NDF : 1839.7/70

In: -0.601+/-1.291 χ^2/NDF : 1617.1/56

Out: 2.656+/-1.217 χ^2/NDF : 1773.9/61

All: 1.124+/-0.885 χ^2/NDF : 3394.3/118

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 627.123+/-2.740 χ^2/NDF : 4234.5/33

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 633.154+/-2.298 χ^2/NDF : 9636.5/36

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

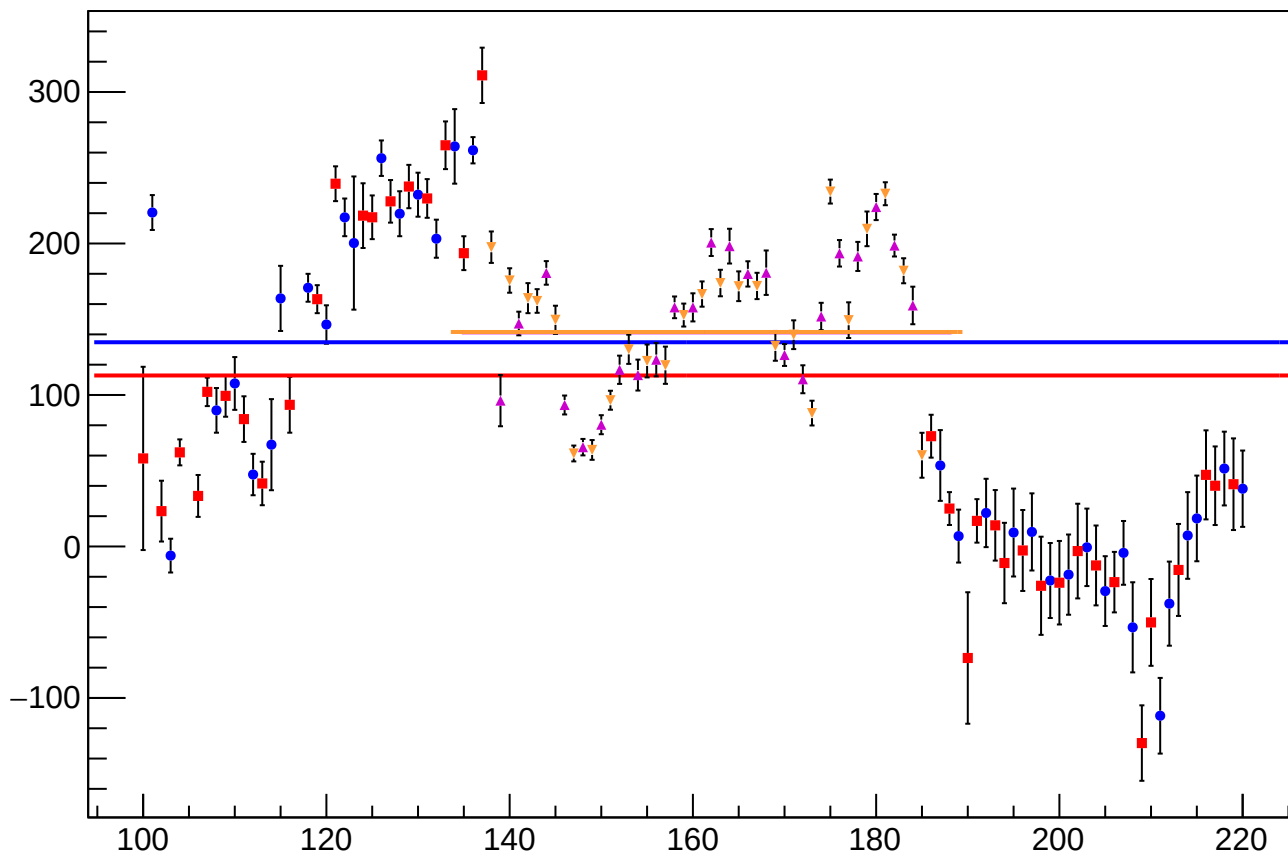
Right: 630.663+/-1.761 χ^2/NDF : 13873.9/70

In: 540.988+/-1.611 χ^2/NDF : 7999.0/56

Out: 554.754+/-1.494 χ^2/NDF : 14266.7/61

All: 548.391+/-1.095 χ^2/NDF : 22304.9/118

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 134.810 $\pm$ 2.849 χ^2 /NDF: 1362.1/33

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 112.871 $\pm$ 2.615 χ^2 /NDF: 1322.9/36

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

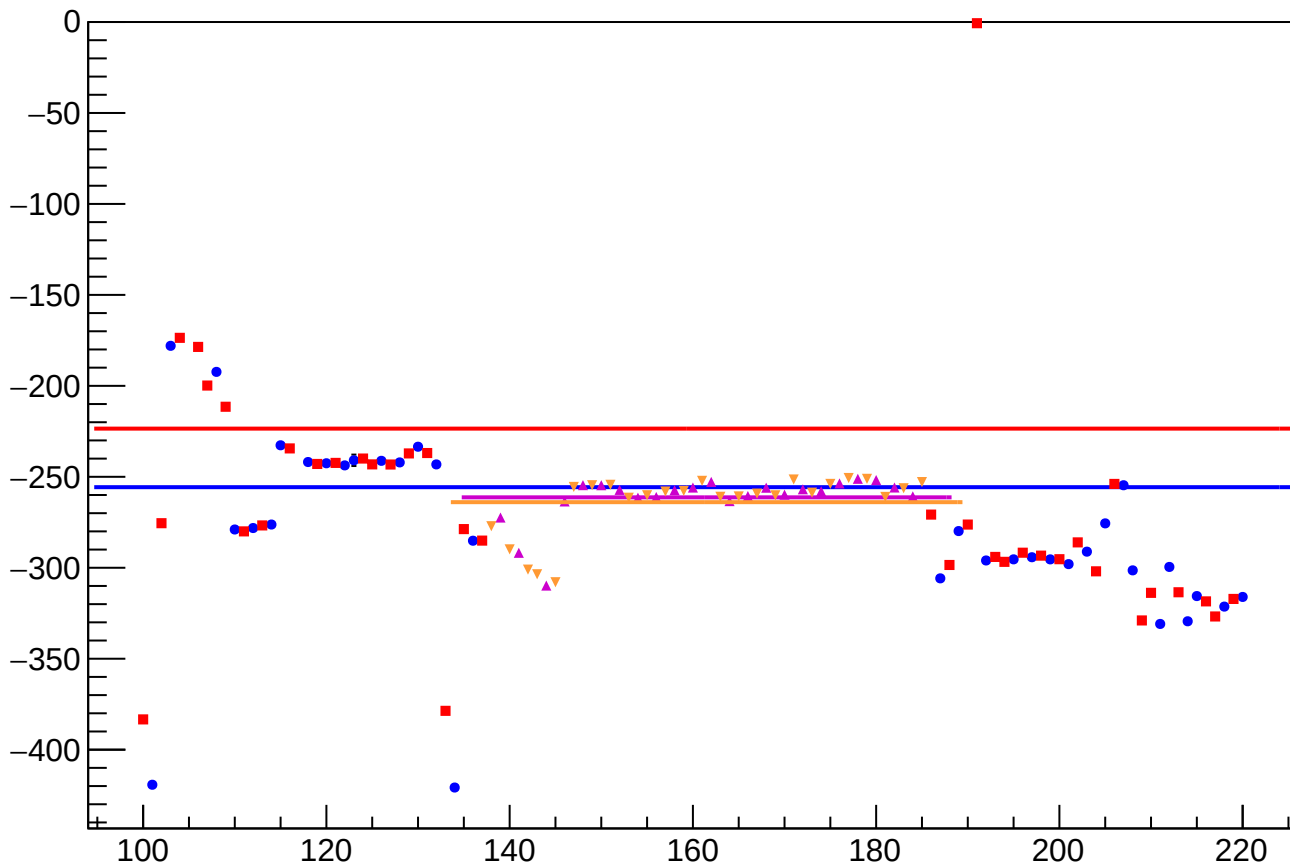
Right: 122.906 $\pm$ 1.926 χ^2 /NDF: 2717.2/70

In: 139.569 $\pm$ 1.490 χ^2 /NDF:2107.2/56

Out: 133.069 $\pm$ 1.424 χ^2 /NDF:2367.3/61

All: 136.173 $\pm$ 1.030 χ^2 /NDF: 4484.4/118

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -255.702+/-0.133 χ^2 /NDF: 210731.0/33

Left Out: -263.943+/-0.081 χ^2 /NDF:39085.0/24

Right Out: -223.509+/-0.121 χ^2 /NDF: 520966.7/36

Left In: -261.286+/-0.082 χ^2 /NDF:23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

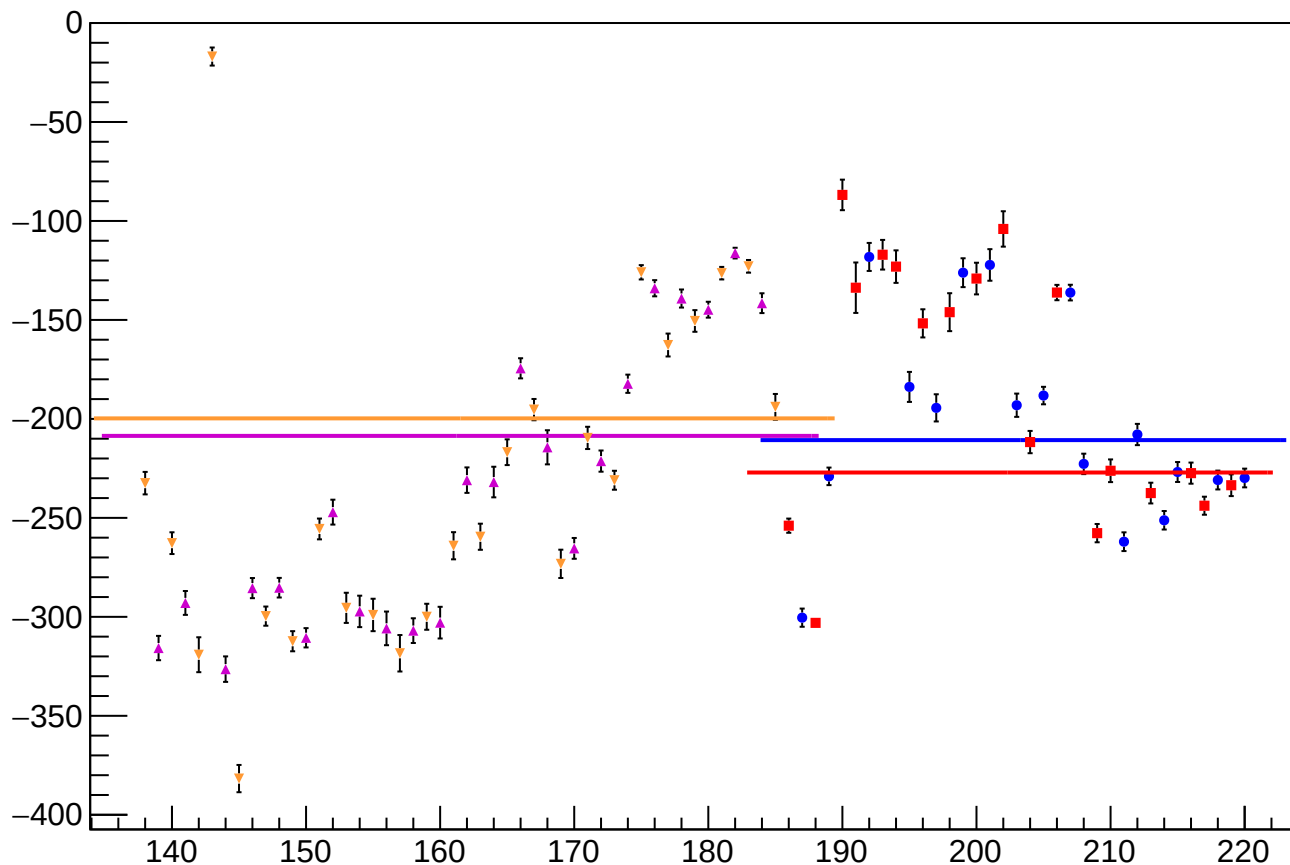
Right: -238.000+/-0.089 χ^2 /NDF: 763820.5/70

In: -259.752+/-0.070 χ^2 /NDF:235354.2/56

Out: -251.308+/-0.067 χ^2 /NDF:637450.1/61

All: -255.379+/-0.048 χ^2 /NDF: 880381.2/118

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -210.717+/-1.264 χ^2/NDF : 1478.2/16

Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24

Right Out: -227.085+/-1.197 χ^2/NDF : 2987.2/17

Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47

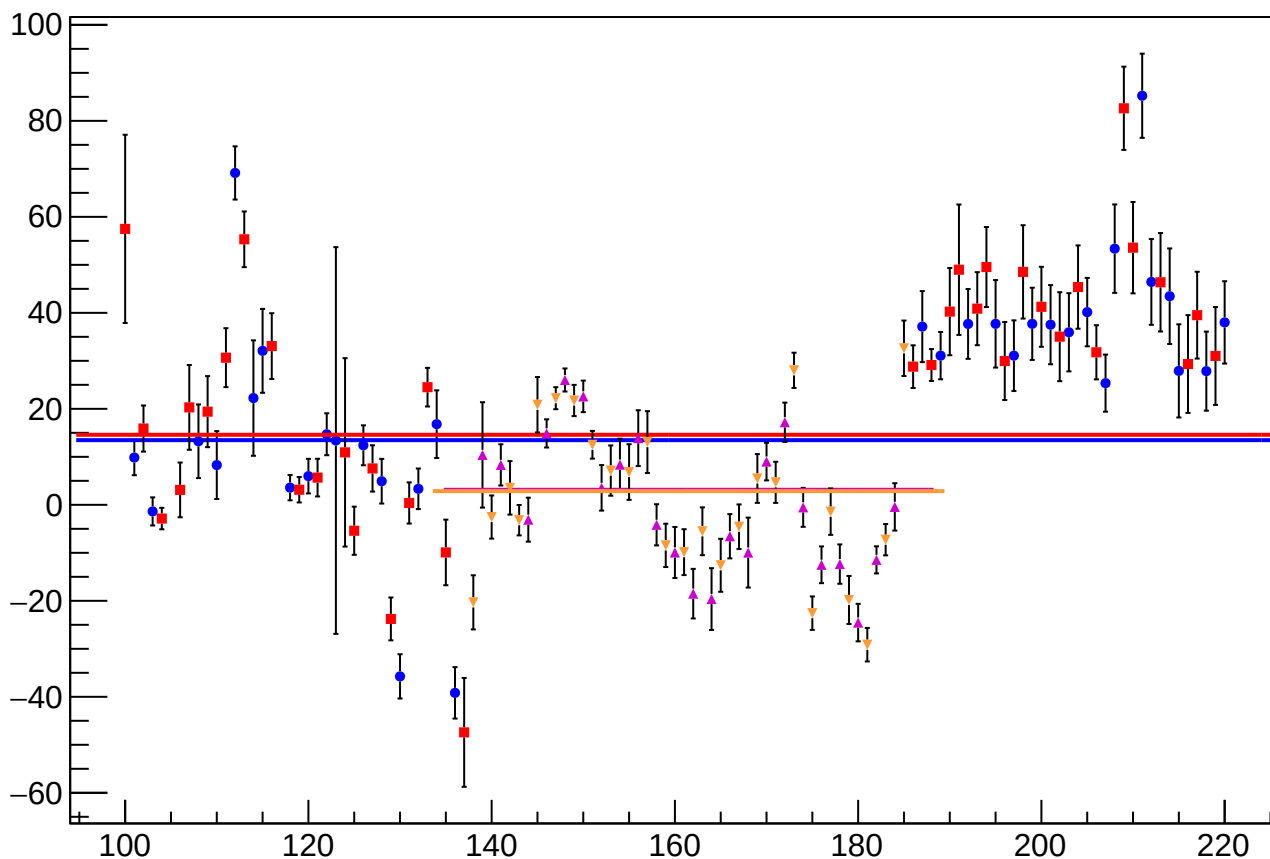
Right: -219.347+/-0.869 χ^2/NDF : 4553.8/34

In: -209.484+/-0.822 χ^2/NDF : 6284.9/39

Out: -211.779+/-0.794 χ^2/NDF : 9641.0/42

All: -210.671+/-0.571 χ^2/NDF : 15930.0/82

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.474 ± 0.951 χ^2/NDF : 584.7/33

Left Out: 2.853 ± 0.820 χ^2/NDF : 419.8/24

Right Out: 14.595 ± 0.903 χ^2/NDF : 535.7/36

Left In: 3.136 ± 0.857 χ^2/NDF : 319.8/22

Left: 2.988 ± 0.592 χ^2/NDF : 739.7/47

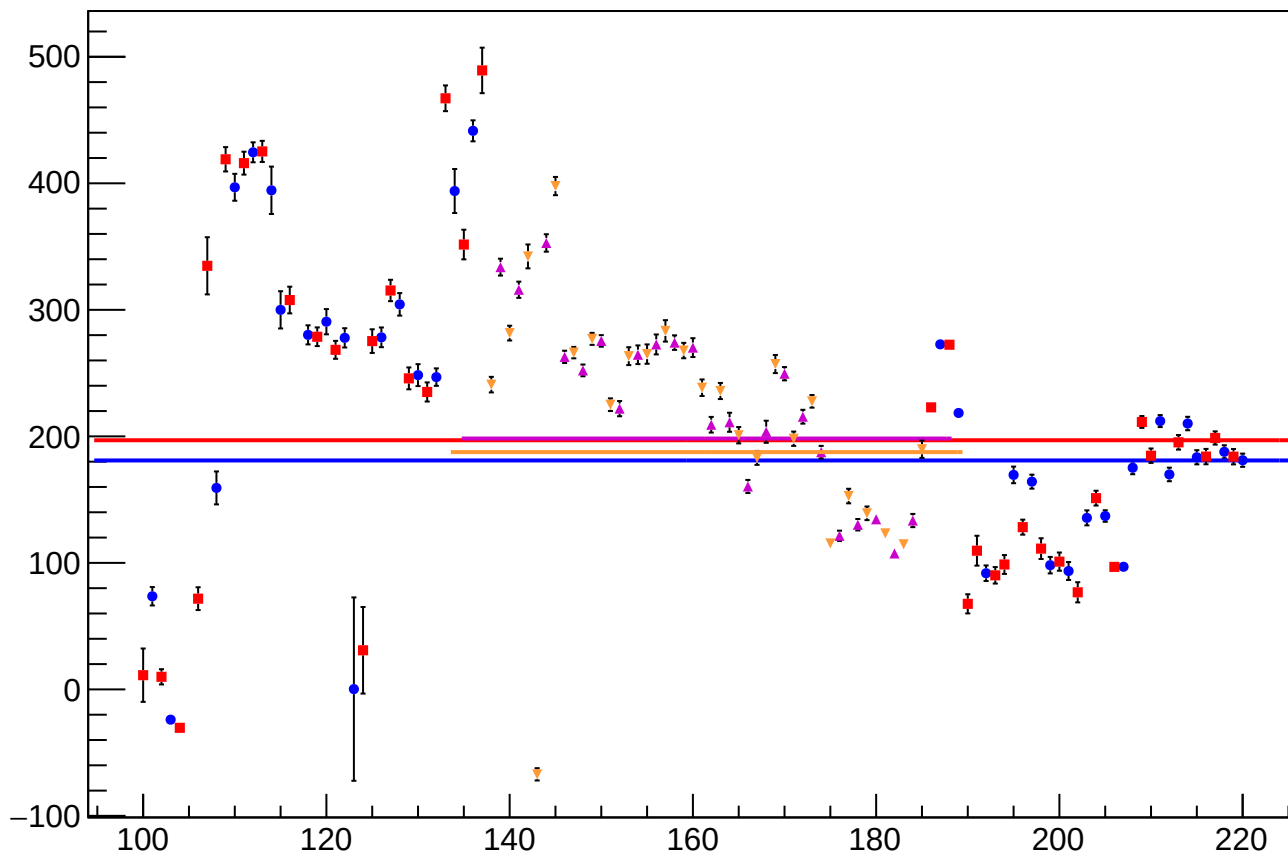
Right: 14.063 ± 0.655 χ^2/NDF : 1121.1/70

In: 7.768 ± 0.636 χ^2/NDF : 969.8/56

Out: 8.157 ± 0.607 χ^2/NDF : 1048.2/61

All: 7.972 ± 0.439 χ^2/NDF : 2018.1/118

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.956 $\pm$ 1.039 χ^2 /NDF: 8771.9/33

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 196.922 $\pm$ 0.949 χ^2 /NDF: 12154.4/36

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

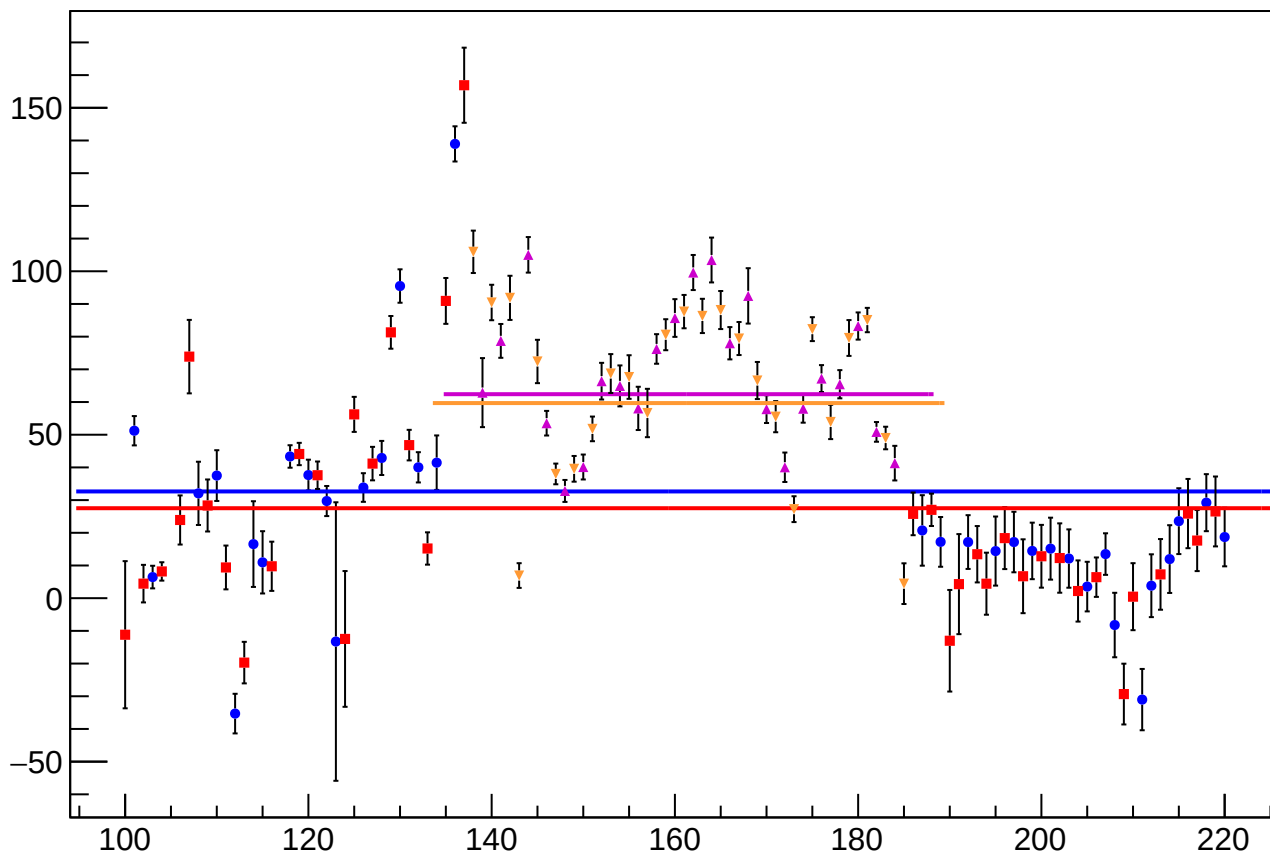
Right: 189.664 $\pm$ 0.701 χ^2 /NDF: 21055.1/70

In: 189.267 $\pm$ 0.749 χ^2 /NDF: 13420.9/56

Out: 192.785 $\pm$ 0.709 χ^2 /NDF: 19279.5/61

All: 191.124 $\pm$ 0.515 χ^2 /NDF: 32712.0/118

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.651 $\pm$ 1.102 χ^2 /NDF: 899.8/33

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.520 $\pm$ 1.071 χ^2 /NDF: 663.3/36

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF: 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

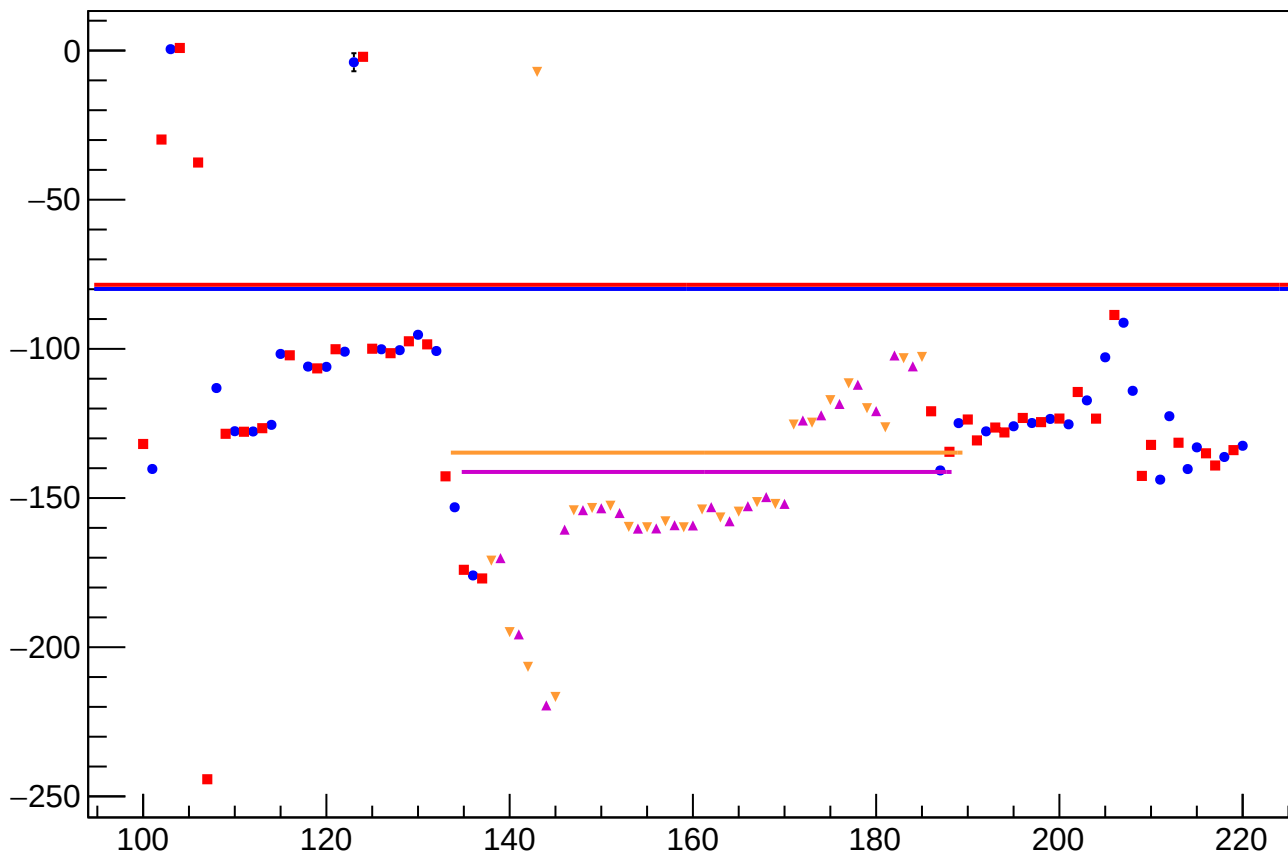
Right: 30.012 $\pm$ 0.768 χ^2 /NDF: 1574.3/70

In: 49.356 $\pm$ 0.730 χ^2 /NDF: 1715.0/56

Out: 45.681 $\pm$ 0.707 χ^2 /NDF: 1929.8/61

All: 47.460 $\pm$ 0.508 χ^2 /NDF: 3657.8/118

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -79.915+/-0.050 χ^2/NDF : 1491982.0/33

Left Out: -134.780+/-0.045 χ^2/NDF : 804747.3/24

Right Out: -78.518+/-0.049 χ^2/NDF : 1471912.0/36

Left In: -141.255+/-0.045 χ^2/NDF : 347229.8/22

Left: -137.961+/-0.032 χ^2/NDF : 1162377.9/47

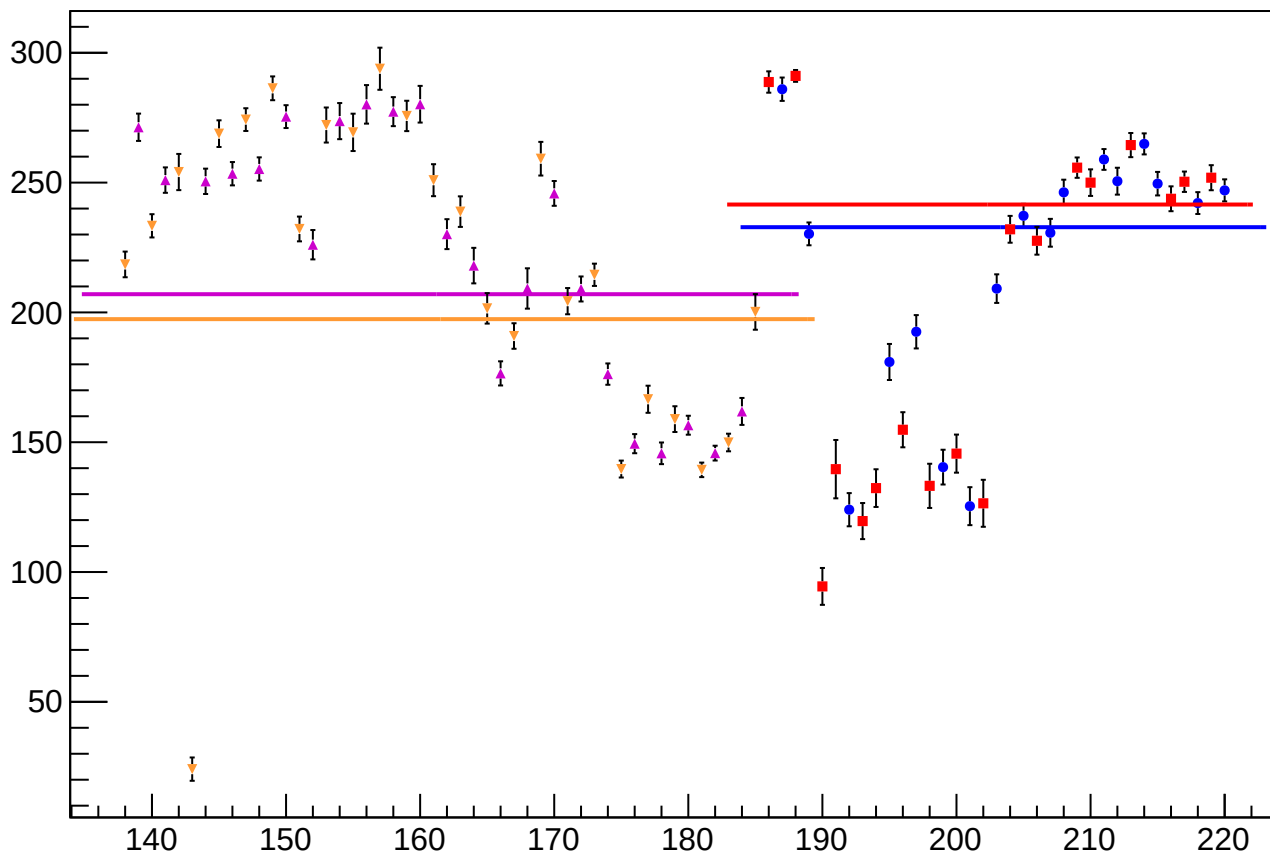
Right: -79.199+/-0.035 χ^2/NDF : 2964298.2/70

In: -113.458+/-0.033 χ^2/NDF : 2670451.7/56

Out: -109.083+/-0.033 χ^2/NDF : 3006651.3/61

All: -111.225+/-0.023 χ^2/NDF : 5685811.5/111

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 232.826+/-1.204 χ^2/NDF : 1105.0/16

Left Out: 197.408+/-0.963 χ^2/NDF : 4384.2/24

Right Out: 241.555+/-1.148 χ^2/NDF : 2369.1/17

Left In: 207.014+/-0.990 χ^2/NDF : 2611.5/22

Left: 202.077+/-0.690 χ^2/NDF : 7044.1/47

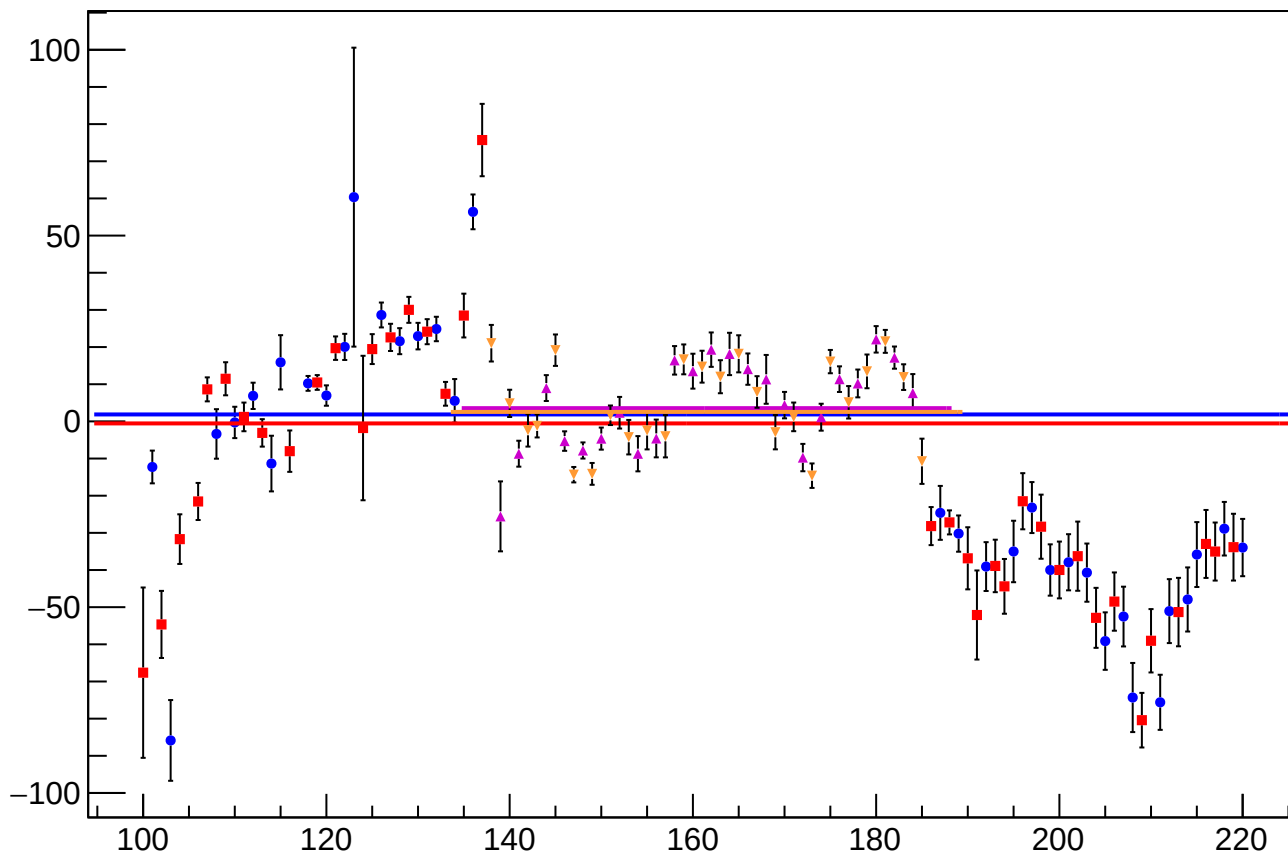
Right: 237.398+/-0.831 χ^2/NDF : 3501.6/34

In: 217.431+/-0.765 χ^2/NDF : 3990.7/39

Out: 215.642+/-0.738 χ^2/NDF : 7621.5/42

All: 216.505+/-0.531 χ^2/NDF : 11615.1/82

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.867 ± 0.831 χ^2/NDF : 1086.7/33

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.548 ± 0.799 χ^2/NDF : 1039.7/36

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

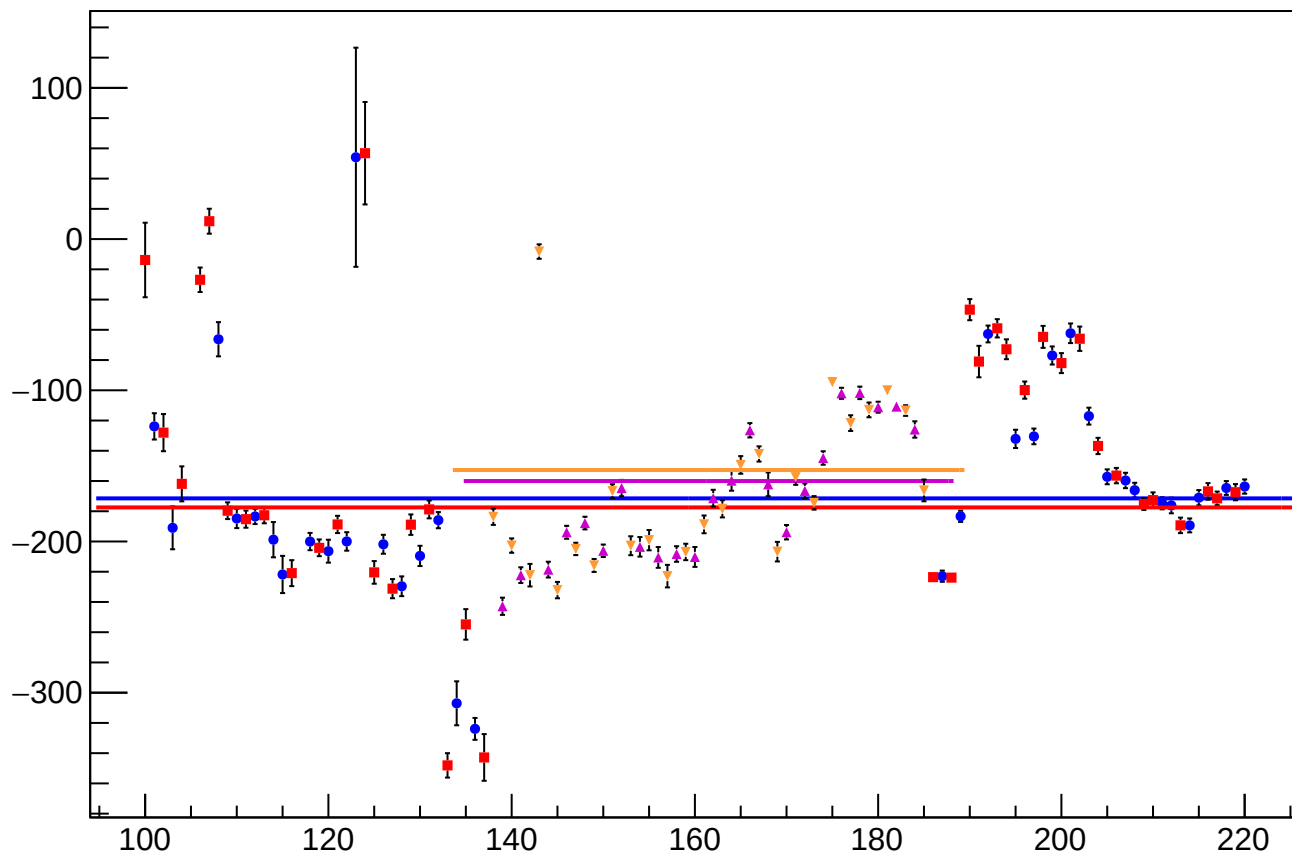
Right: 0.613 ± 0.576 χ^2/NDF : 2130.8/70

In: 2.773 ± 0.566 χ^2/NDF : 1280.9/56

Out: 1.117 ± 0.543 χ^2/NDF : 1323.2/61

All: 1.911 ± 0.392 χ^2/NDF : 2608.6/118

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.488 ± 0.983 $\chi^2/\text{NDF}: 2253.8/33$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -177.470 ± 0.900 $\chi^2/\text{NDF}: 4594.8/36$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

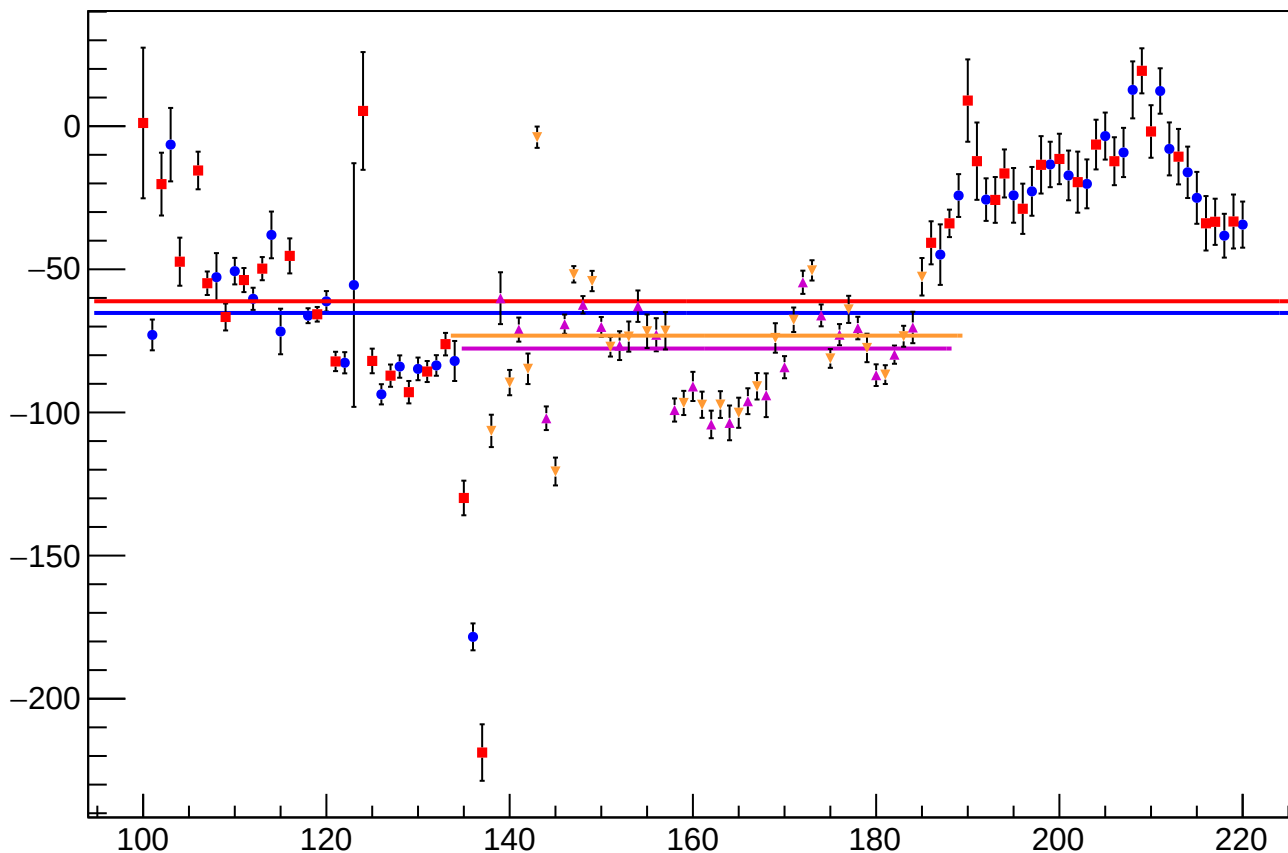
Right: -174.741 ± 0.664 $\chi^2/\text{NDF}: 6868.7/70$

In: -165.788 ± 0.697 $\chi^2/\text{NDF}: 4345.8/56$

Out: -165.985 ± 0.659 $\chi^2/\text{NDF}: 8023.0/61$

All: -165.892 ± 0.479 $\chi^2/\text{NDF}: 12368.8/118$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.244 ± 0.959 $\chi^2/\text{NDF}: 1373.4/33$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.159 ± 0.932 $\chi^2/\text{NDF}: 1205.5/36$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

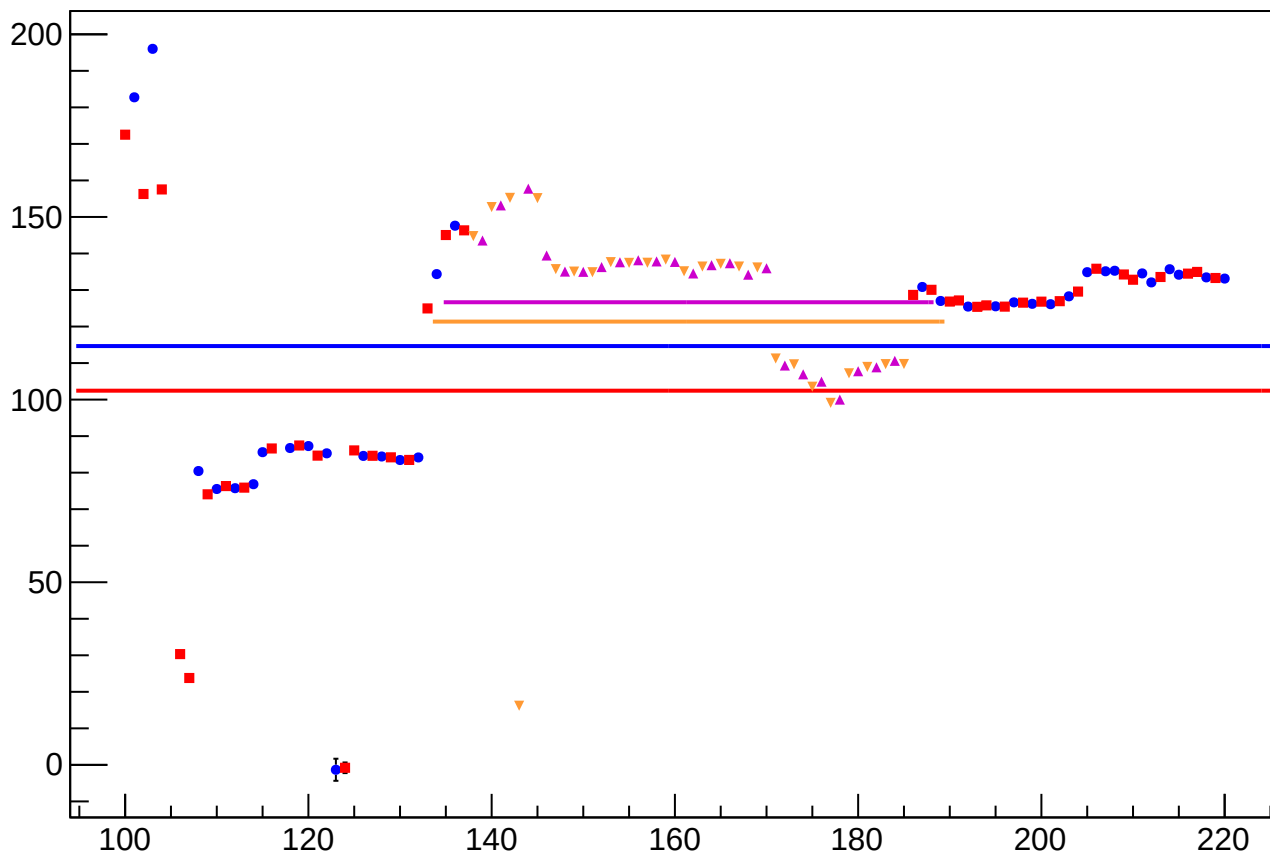
Right: -63.143 ± 0.669 $\chi^2/\text{NDF}: 2588.2/70$

In: -71.976 ± 0.650 $\chi^2/\text{NDF}: 1712.6/56$

Out: -67.707 ± 0.629 $\chi^2/\text{NDF}: 2084.6/61$

All: -69.771 ± 0.452 $\chi^2/\text{NDF}: 3819.5/118$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.656 $\pm$ 0.053 χ^2 /NDF: 331554.0/33

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 102.440 $\pm$ 0.050 χ^2 /NDF: 610956.5/36

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

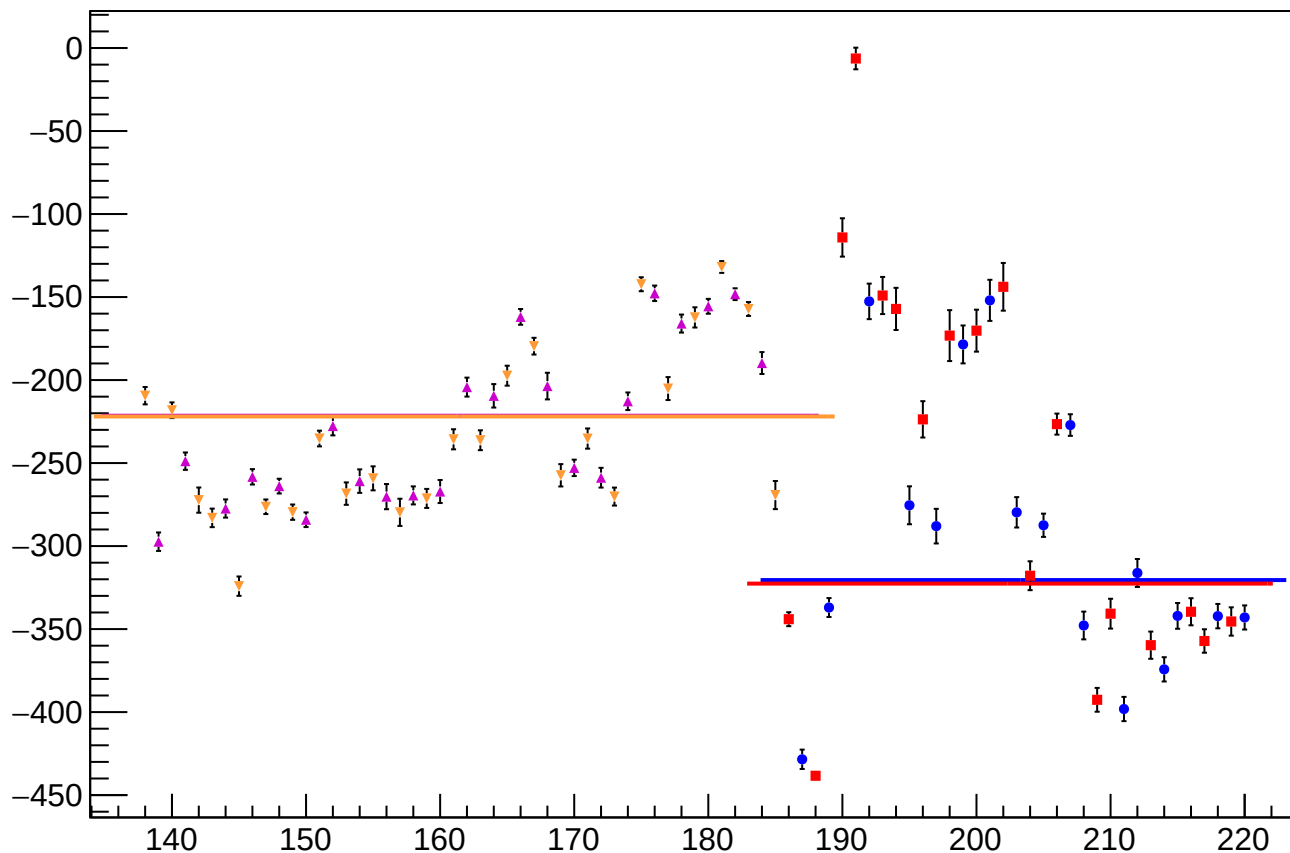
Right: 108.087 $\pm$ 0.036 χ^2 /NDF: 970645.6/70

In: 122.193 $\pm$ 0.033 χ^2 /NDF: 526309.5/56

Out: 113.818 $\pm$ 0.031 χ^2 /NDF: 1180709.4/61

All: 117.835 $\pm$ 0.023 χ^2 /NDF: 1741451.9/118

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -320.479 ± 1.904 $\chi^2/\text{NDF}: 1414.5/16$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -322.604 ± 1.649 $\chi^2/\text{NDF}: 5432.1/17$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

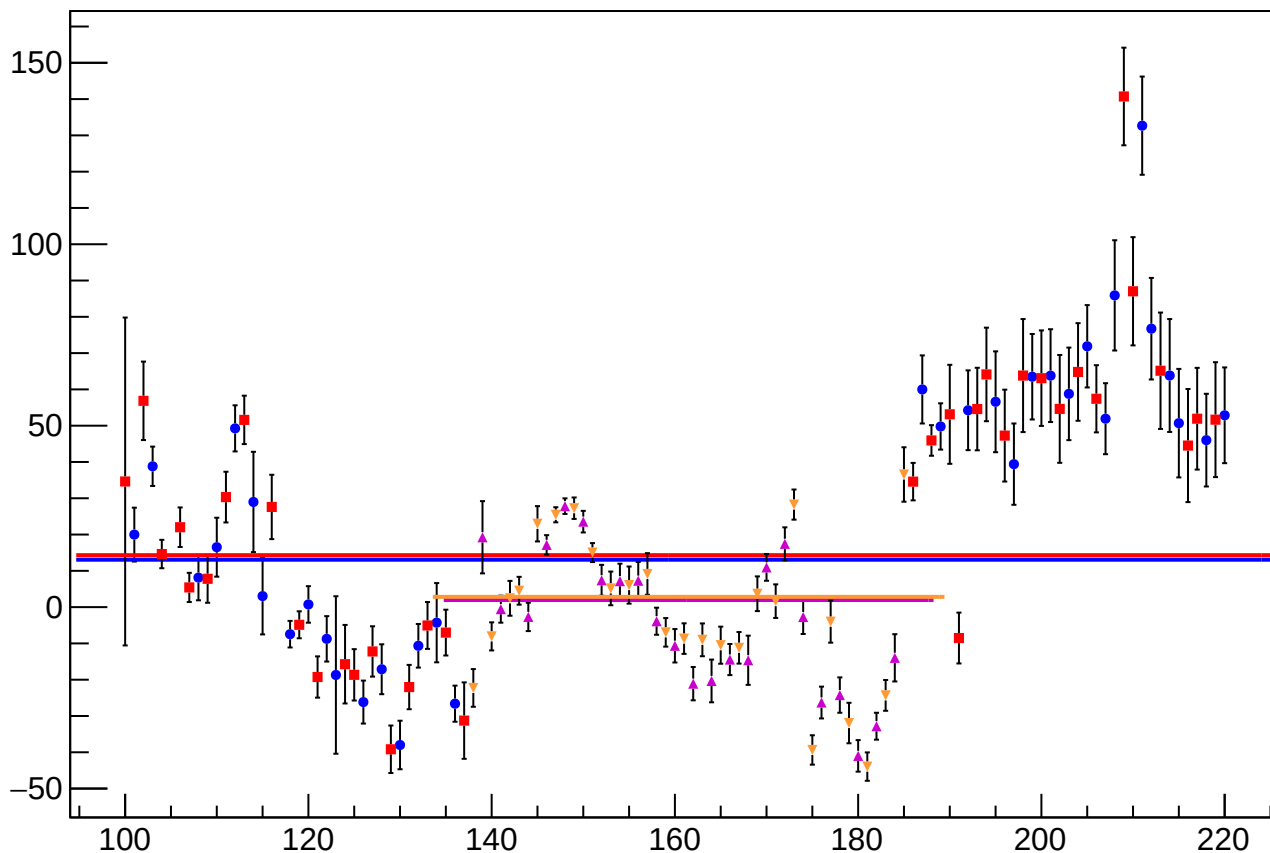
Right: -321.693 ± 1.247 $\chi^2/\text{NDF}: 6847.3/34$

In: -246.338 ± 0.954 $\chi^2/\text{NDF}: 5589.6/39$

Out: -252.316 ± 0.906 $\chi^2/\text{NDF}: 10611.3/42$

All: -249.481 ± 0.657 $\chi^2/\text{NDF}: 16221.6/82$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.069+/-1.345 χ^2 /NDF: 645.4/33

Left Out: 2.832+/-0.807 χ^2 /NDF:686.9/24

Right Out: 14.315+/-1.189 χ^2 /NDF: 639.4/36

Left In: 1.969+/-0.835 χ^2 /NDF:589.1/22

Left: 2.415+/-0.580 χ^2 /NDF: 1276.5/47

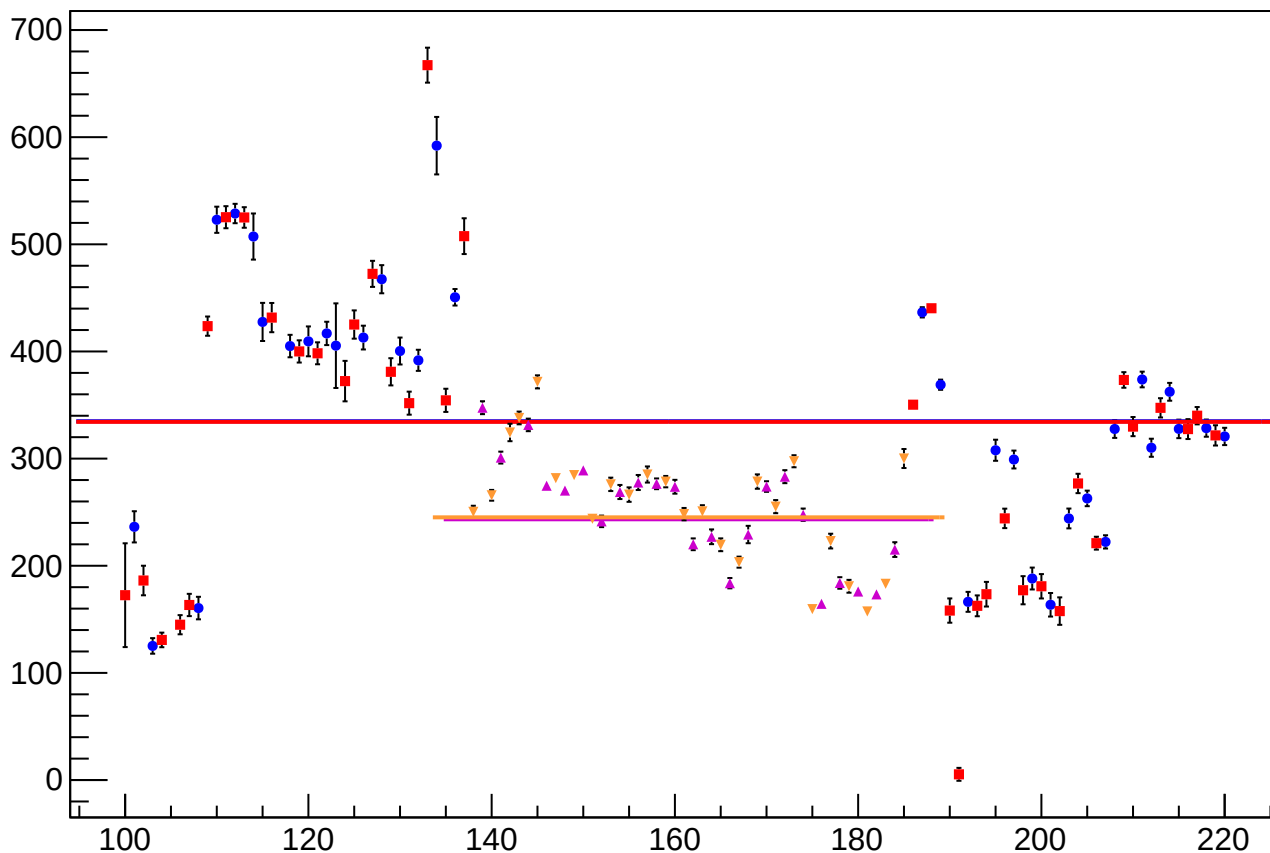
Right: 13.769+/-0.891 χ^2 /NDF: 1285.3/70

In: 5.055+/-0.709 χ^2 /NDF:1283.6/56

Out: 6.455+/-0.668 χ^2 /NDF:1390.2/61

All: 5.797+/-0.486 χ^2 /NDF: 2675.9/118

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 334.895 ± 1.518 $\chi^2/\text{NDF}: 4489.5/33$

Left Out: 245.179 ± 1.082 $\chi^2/\text{NDF}: 2597.4/24$

Right Out: 334.309 ± 1.275 $\chi^2/\text{NDF}: 10102.4/36$

Left In: 243.366 ± 1.094 $\chi^2/\text{NDF}: 2236.7/22$

Left: 244.282 ± 0.769 $\chi^2/\text{NDF}: 4835.5/47$

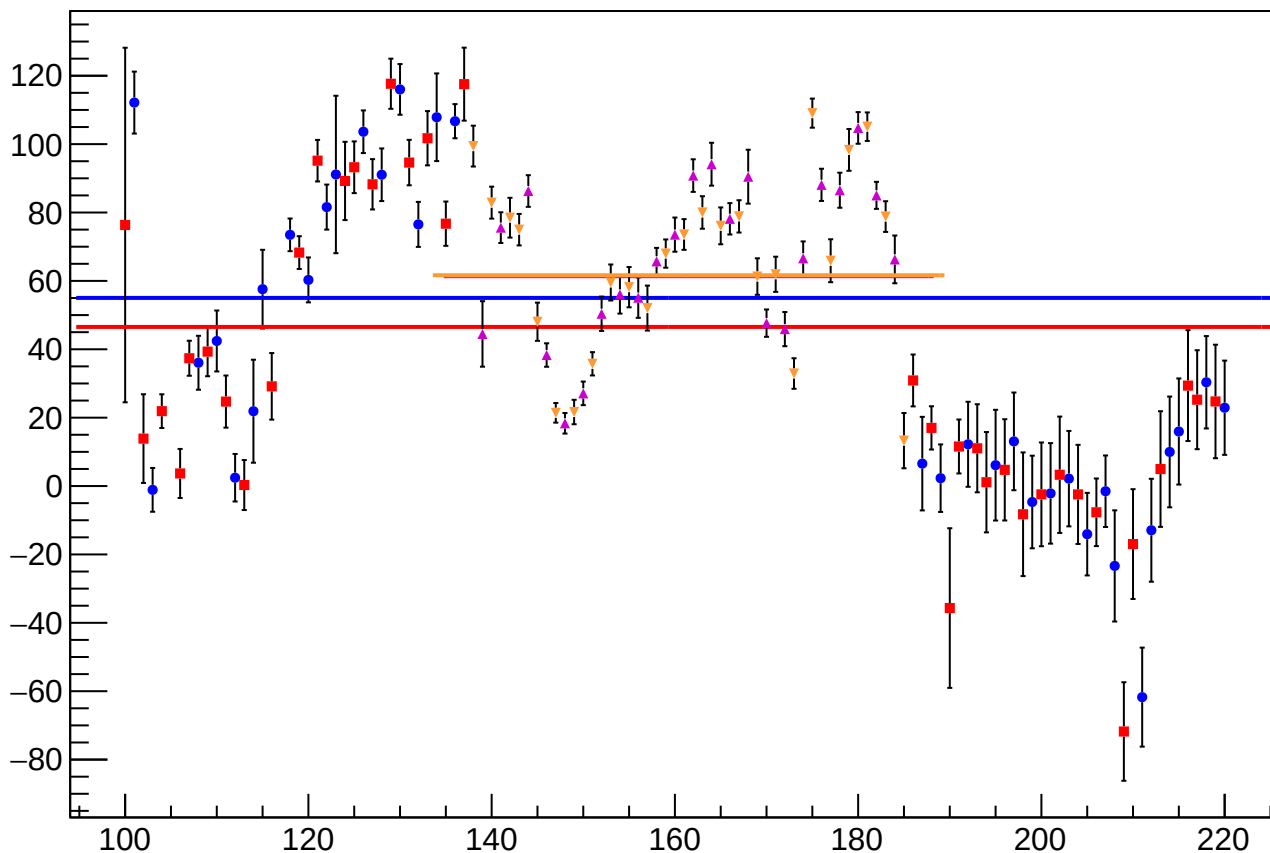
Right: 334.551 ± 0.976 $\chi^2/\text{NDF}: 14591.9/70$

In: 274.636 ± 0.887 $\chi^2/\text{NDF}: 9119.2/56$

Out: 282.512 ± 0.825 $\chi^2/\text{NDF}: 15541.9/61$

All: 278.861 ± 0.604 $\chi^2/\text{NDF}: 24703.3/118$

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.025 $\pm$ 1.555 χ^2 /NDF: 818.9/33

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 46.541 $\pm$ 1.413 χ^2 /NDF: 797.4/36

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

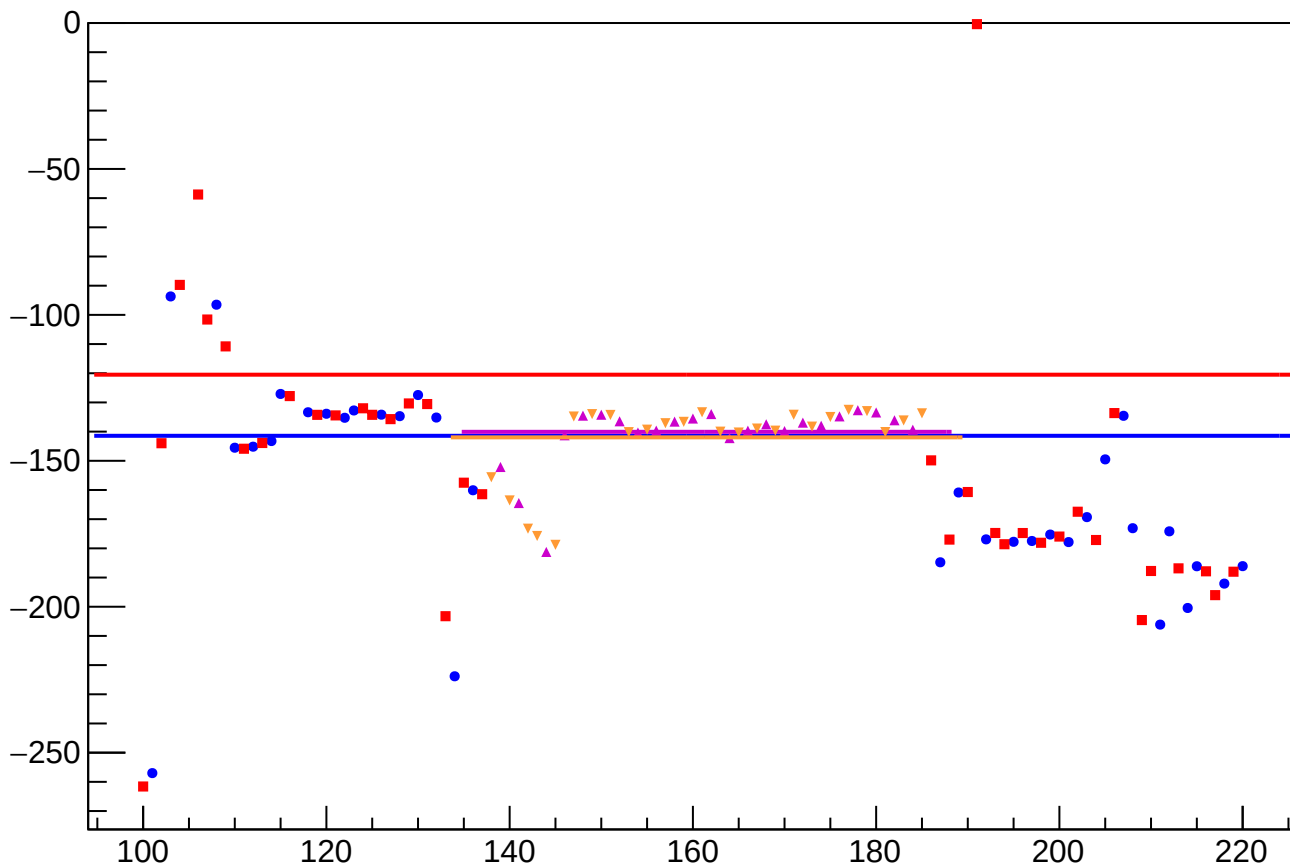
Right: 50.379 $\pm$ 1.046 χ^2 /NDF: 1632.7/70

In: 59.620 $\pm$ 0.818 χ^2 /NDF:1530.7/56

Out: 57.041 $\pm$ 0.781 χ^2 /NDF:1748.4/61

All: 58.271 $\pm$ 0.565 χ^2 /NDF: 3284.2/118

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.433 ± 0.074 $\chi^2/\text{NDF}: 263479.1/33$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -120.496 ± 0.066 $\chi^2/\text{NDF}: 658464.4/36$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

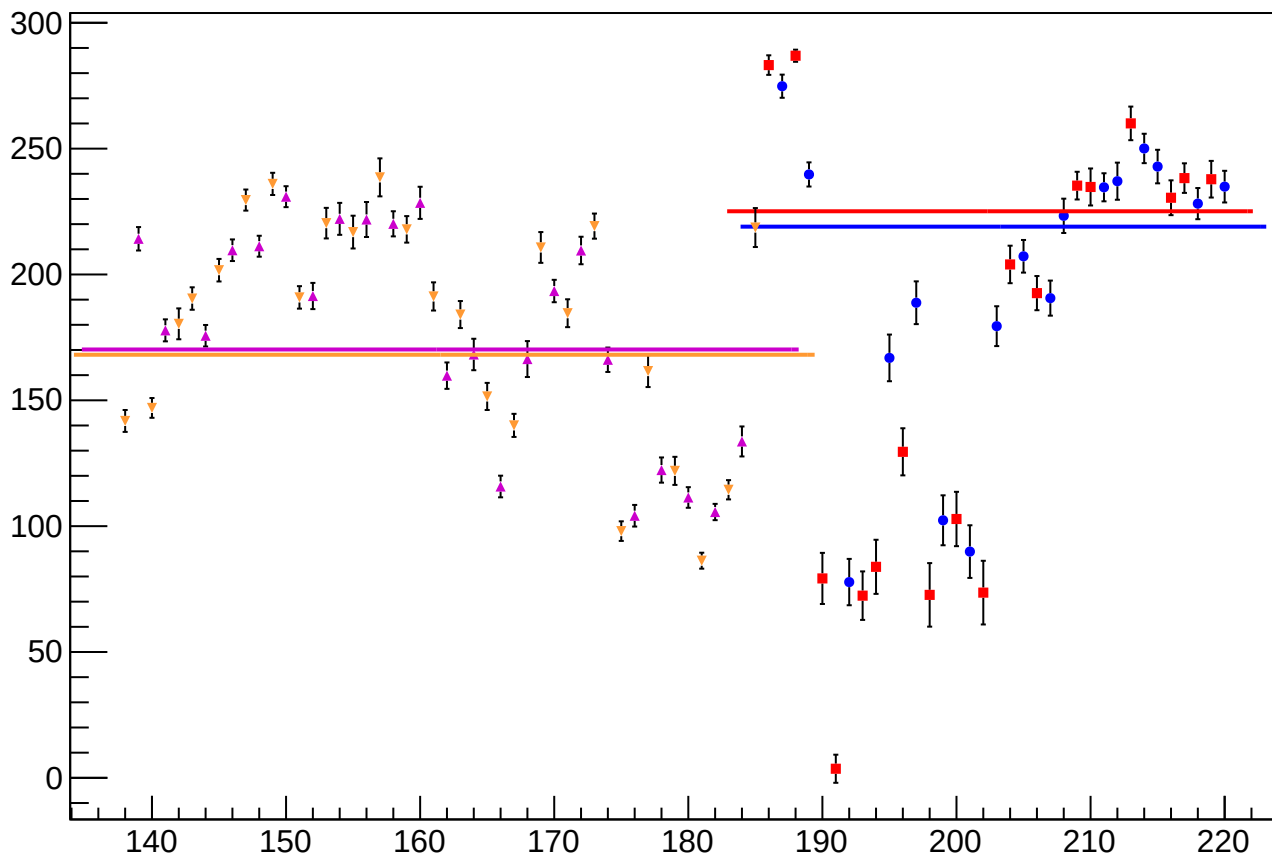
Right: -129.805 ± 0.049 $\chi^2/\text{NDF}: 966532.5/70$

In: -140.437 ± 0.038 $\chi^2/\text{NDF}: 311758.4/56$

Out: -135.232 ± 0.037 $\chi^2/\text{NDF}: 811112.4/61$

All: -137.738 ± 0.027 $\chi^2/\text{NDF}: 1132381.9/111$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.003 $\pm$ 1.616 χ^2 /NDF: 844.7/16

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 225.114 $\pm$ 1.394 χ^2 /NDF: 3678.3/17

Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47

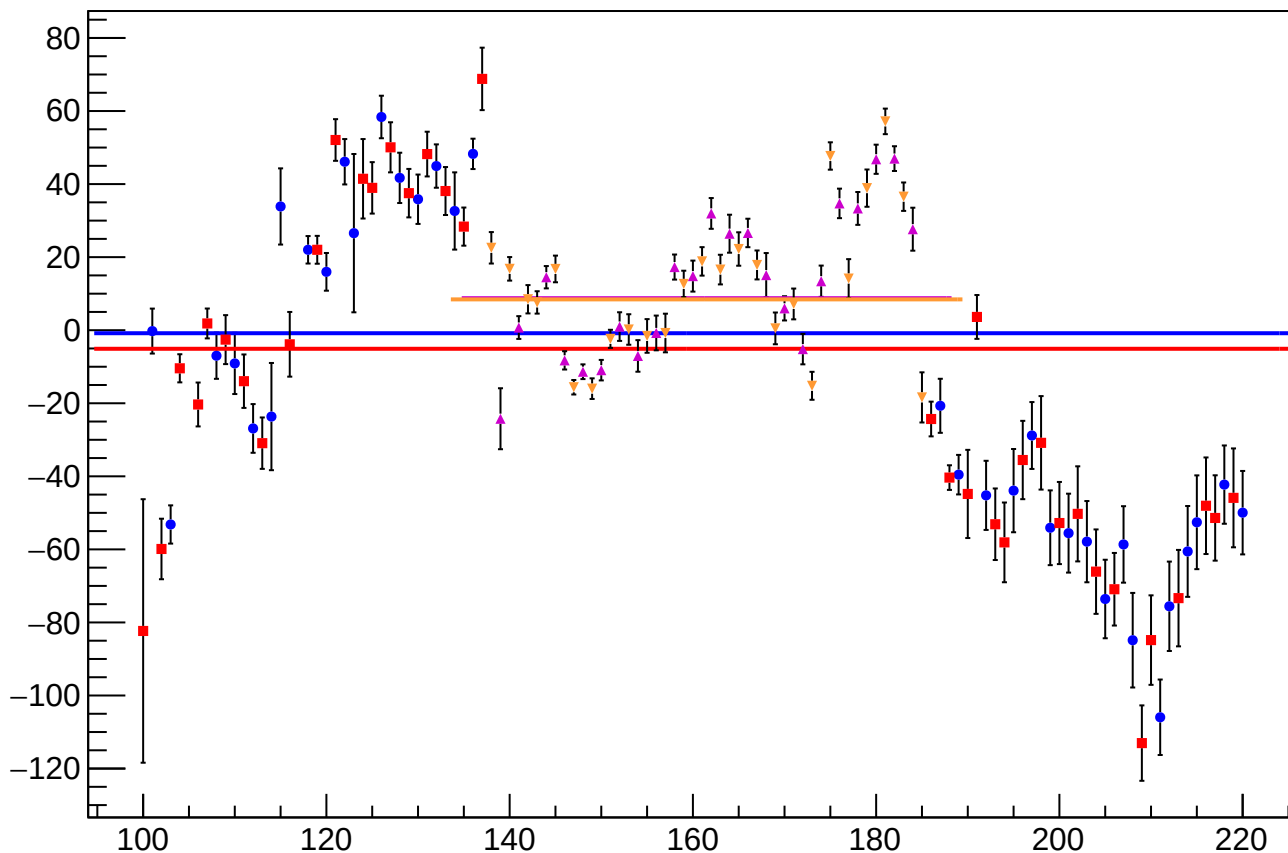
Right: 222.506 $\pm$ 1.056 χ^2 /NDF: 4531.2/34

In: 183.620 $\pm$ 0.848 χ^2 /NDF:3530.3/39

Out: 186.705 $\pm$ 0.796 χ^2 /NDF:7273.4/42

All: 185.258 $\pm$ 0.580 χ^2 /NDF: 10810.8/82

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.825±1.269 χ^2/NDF : 1132.5/33

Left Out: 8.436±0.728 χ^2/NDF : 752.0/24

Right Out: -5.086±1.126 χ^2/NDF : 1138.1/36

Left In: 8.769±0.758 χ^2/NDF : 626.8/22

Left: 8.596±0.525 χ^2/NDF : 1379.0/47

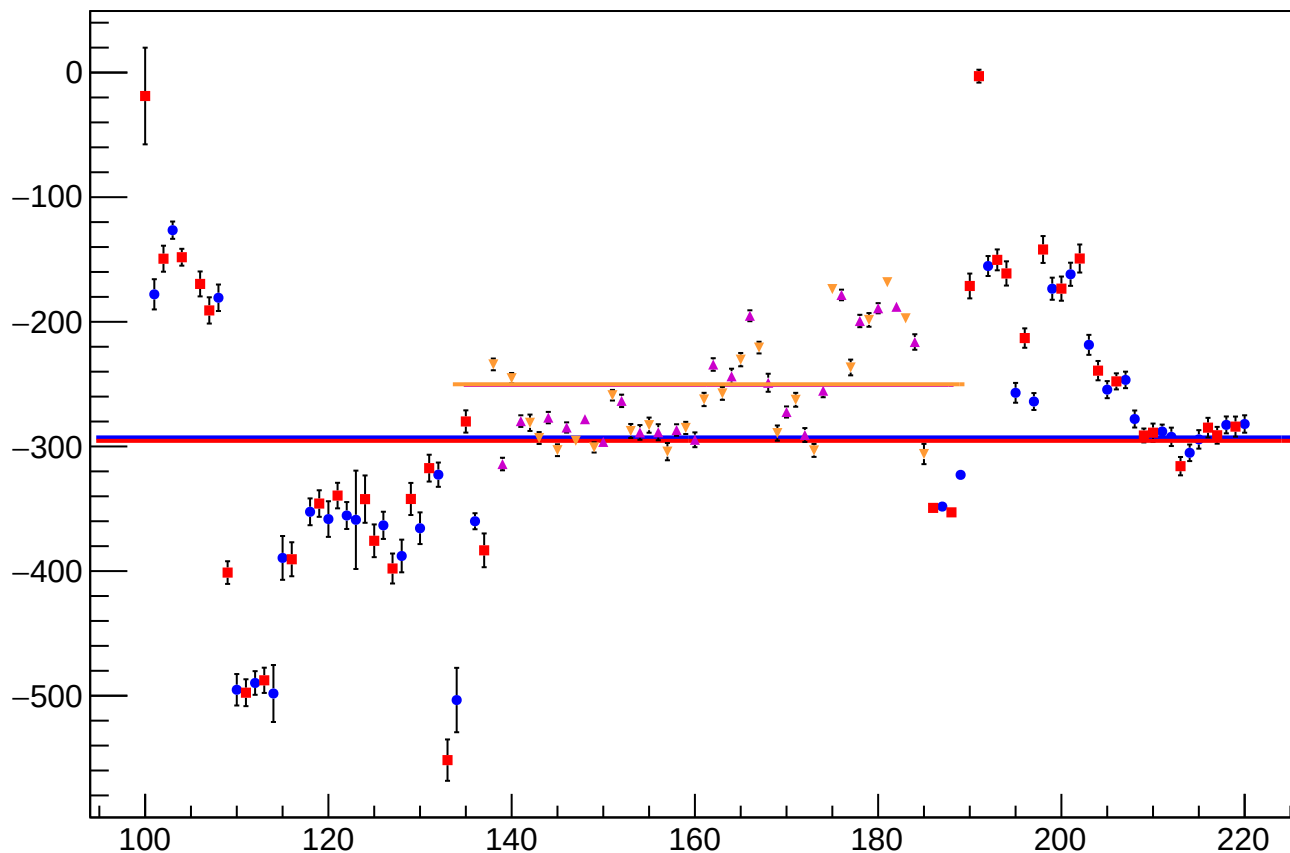
Right: -3.210±0.842 χ^2/NDF : 2276.9/70

In: 6.245±0.651 χ^2/NDF : 1801.4/56

Out: 4.449±0.611 χ^2/NDF : 1991.8/61

All: 5.291±0.446 χ^2/NDF : 3797.3/118

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -292.744 ± 1.332 χ^2/NDF : 3140.1/33

Left Out: -250.119 ± 0.972 χ^2/NDF : 2246.9/24

Right Out: -295.500 ± 1.113 χ^2/NDF : 8123.3/36

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

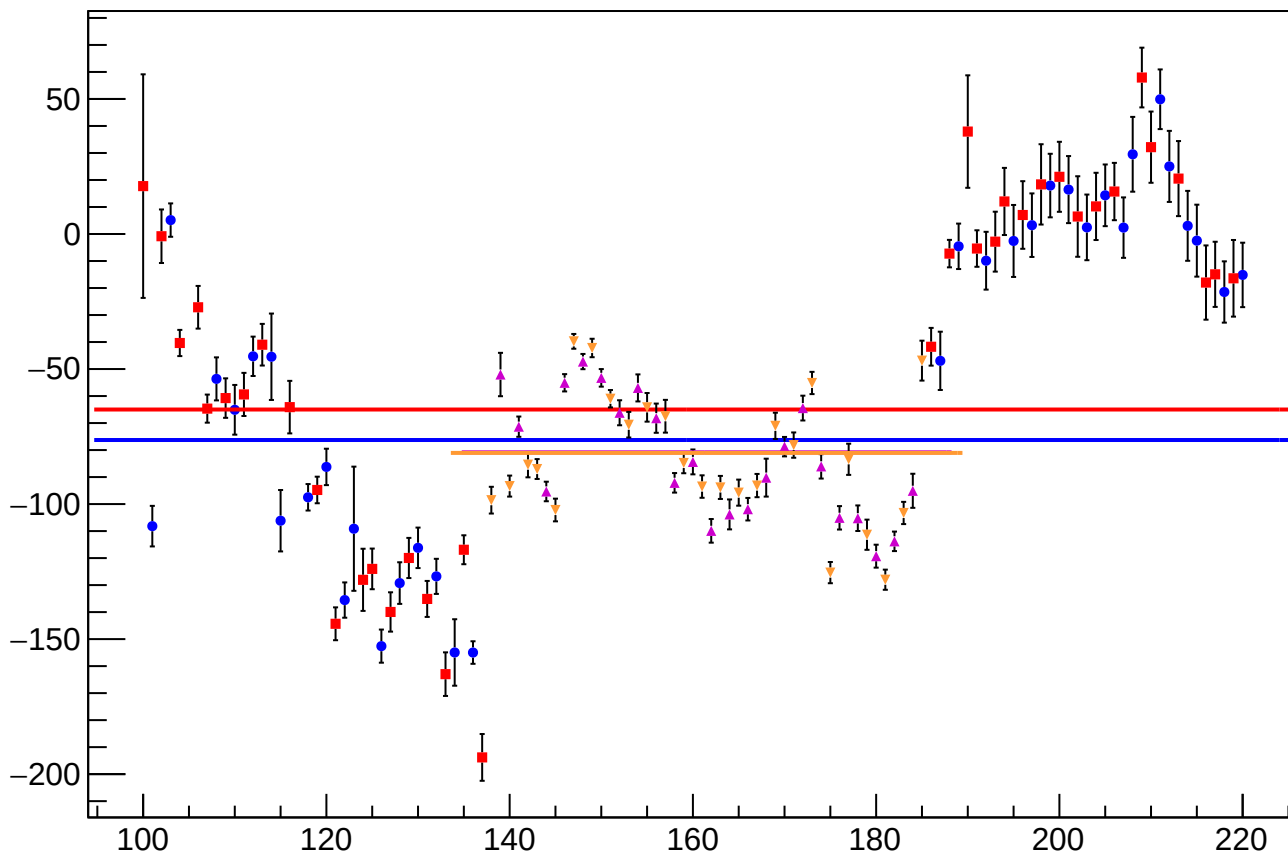
Right: -294.366 ± 0.854 χ^2/NDF : 11265.9/70

In: -265.629 ± 0.795 χ^2/NDF : 5721.3/56

Out: -269.762 ± 0.732 χ^2/NDF : 11313.1/61

All: -267.864 ± 0.538 χ^2/NDF : 17049.0/118

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.281 ± 1.465 $\chi^2/\text{NDF}: 1857.2/33$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -64.989 ± 1.342 $\chi^2/\text{NDF}: 1931.9/36$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

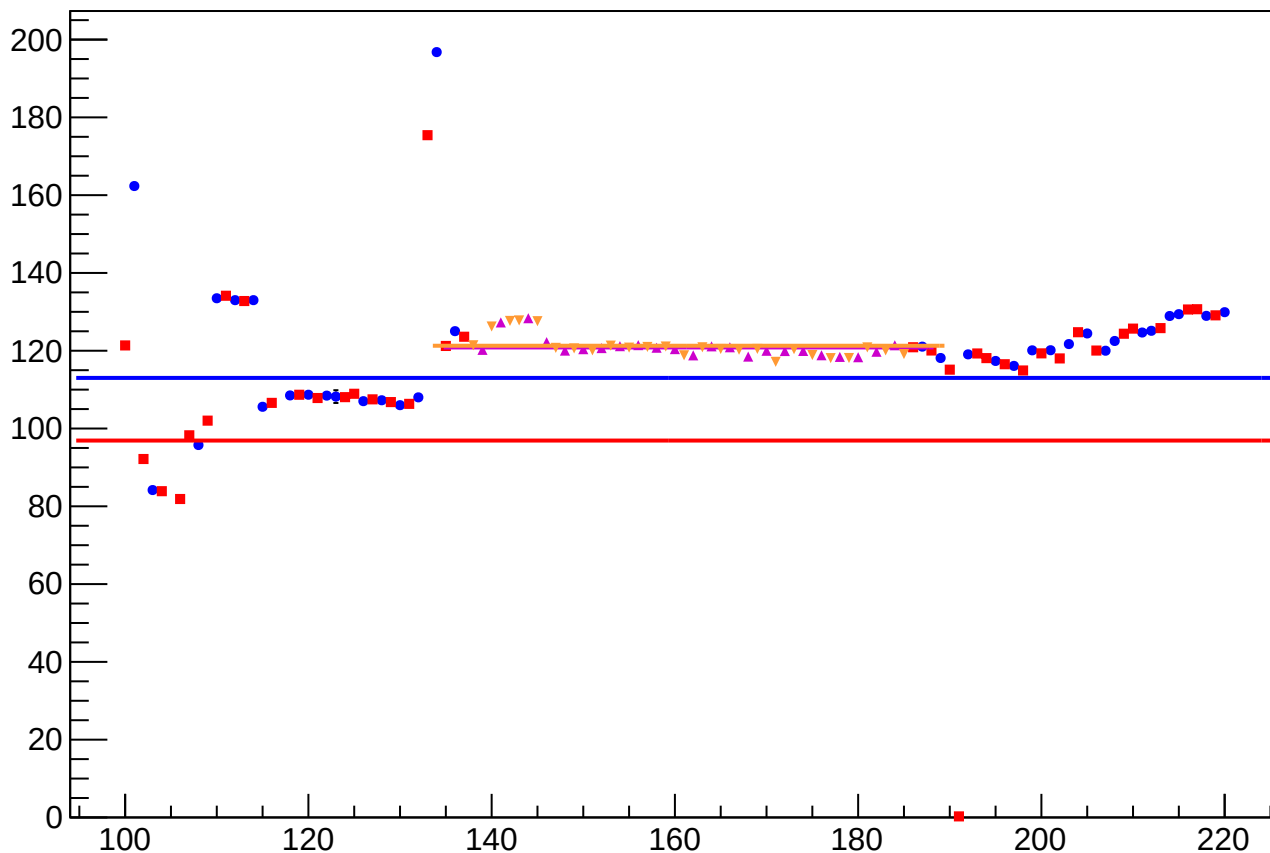
Right: -70.139 ± 0.990 $\chi^2/\text{NDF}: 3821.3/70$

In: -79.643 ± 0.749 $\chi^2/\text{NDF}: 2557.4/56$

Out: -76.509 ± 0.714 $\chi^2/\text{NDF}: 2947.7/61$

All: -78.000 ± 0.517 $\chi^2/\text{NDF}: 5514.3/118$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 113.013 $\pm$ 0.068 χ^2 /NDF: 82299.0/33

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.906 $\pm$ 0.061 χ^2 /NDF: 376441.4/36

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

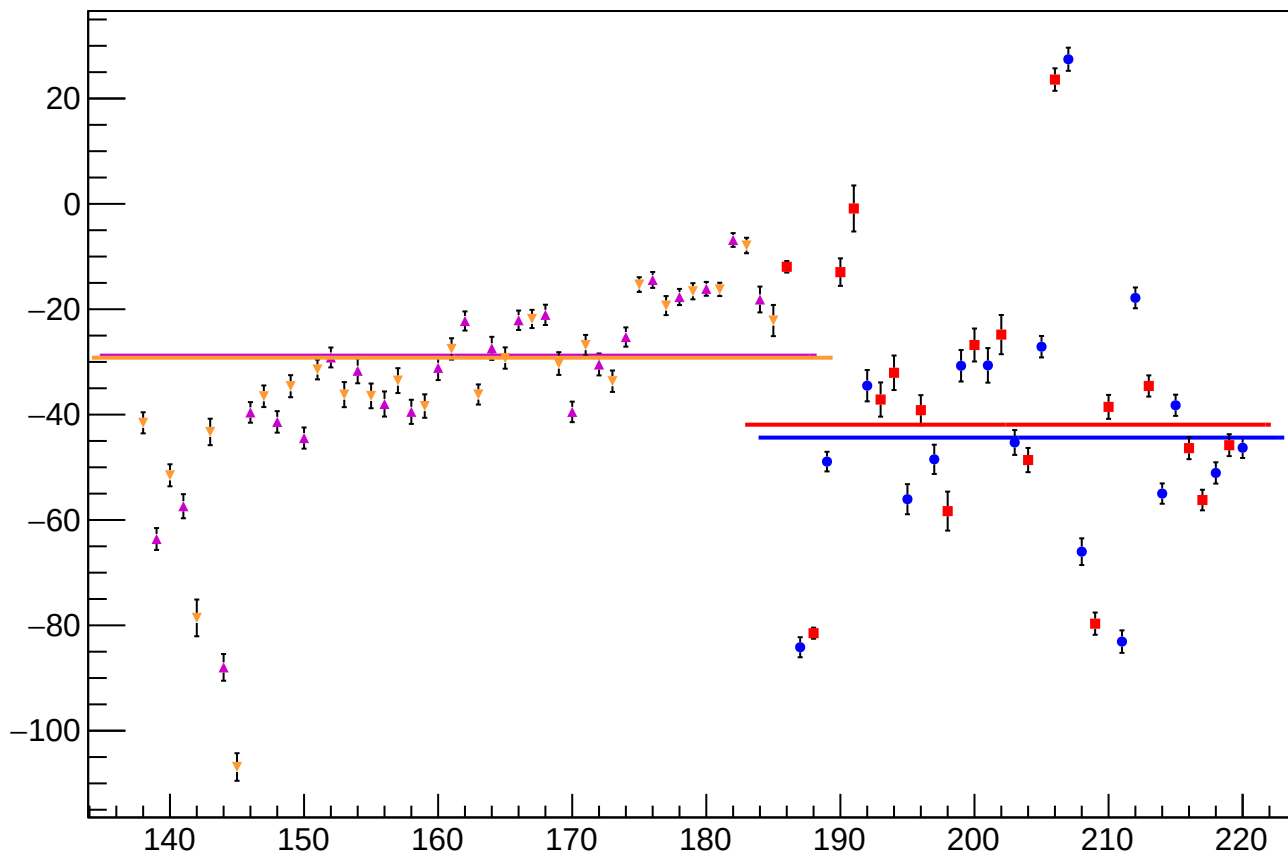
Right: 104.062 $\pm$ 0.045 χ^2 /NDF: 489834.0/70

In: 118.782 $\pm$ 0.035 χ^2 /NDF: 95409.8/56

Out: 113.907 $\pm$ 0.033 χ^2 /NDF: 493187.9/61

All: 116.242 $\pm$ 0.024 χ^2 /NDF: 598748.6/118

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.364 ± 0.541 χ^2/NDF : 2284.7/16

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -41.912 ± 0.483 χ^2/NDF : 3799.6/17

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

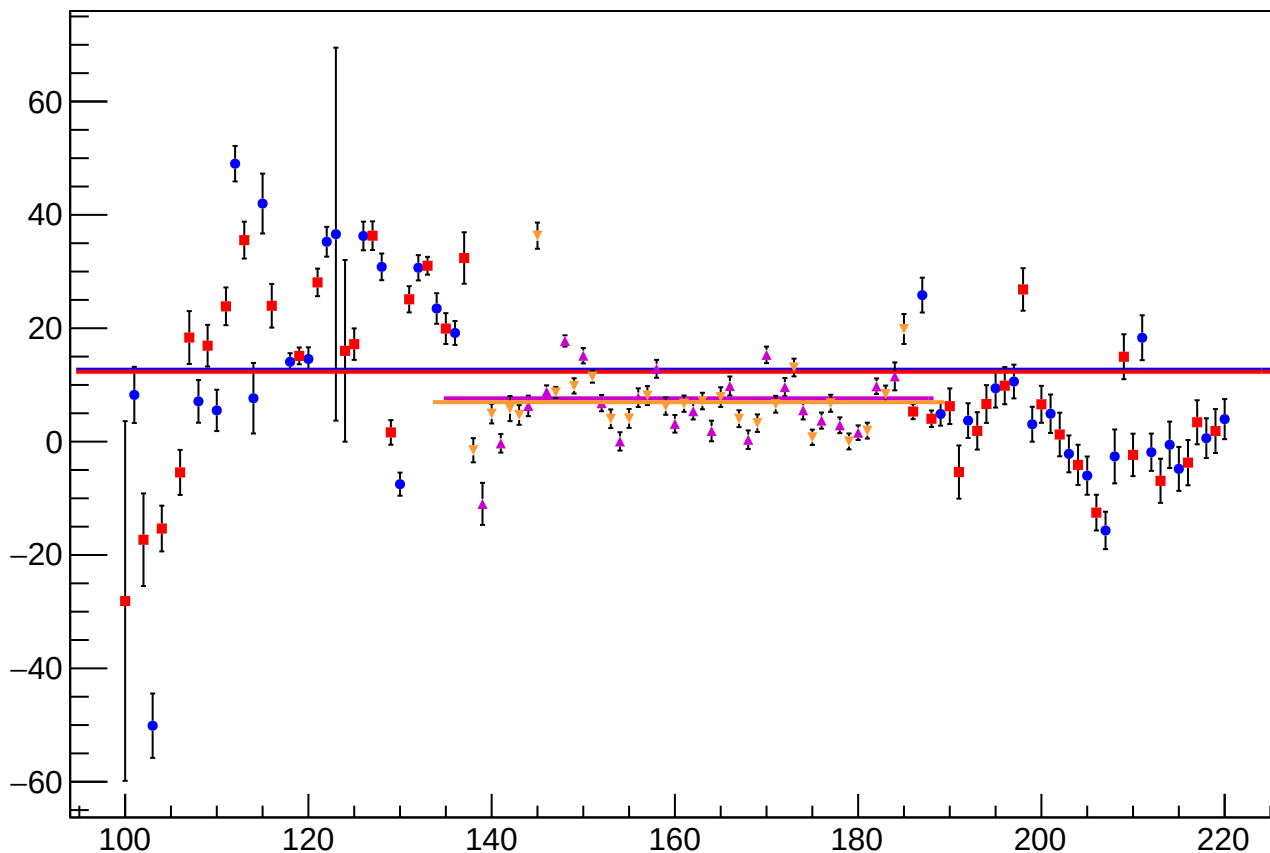
Right: -42.999 ± 0.360 χ^2/NDF : 6095.8/34

In: -34.227 ± 0.319 χ^2/NDF : 4587.7/39

Out: -34.195 ± 0.303 χ^2/NDF : 6101.8/42

All: -34.210 ± 0.220 χ^2/NDF : 10689.4/82

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.691 $\pm$ 0.504 χ^2 /NDF: 971.2/33

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.326 $\pm$ 0.463 χ^2 /NDF: 790.3/36

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

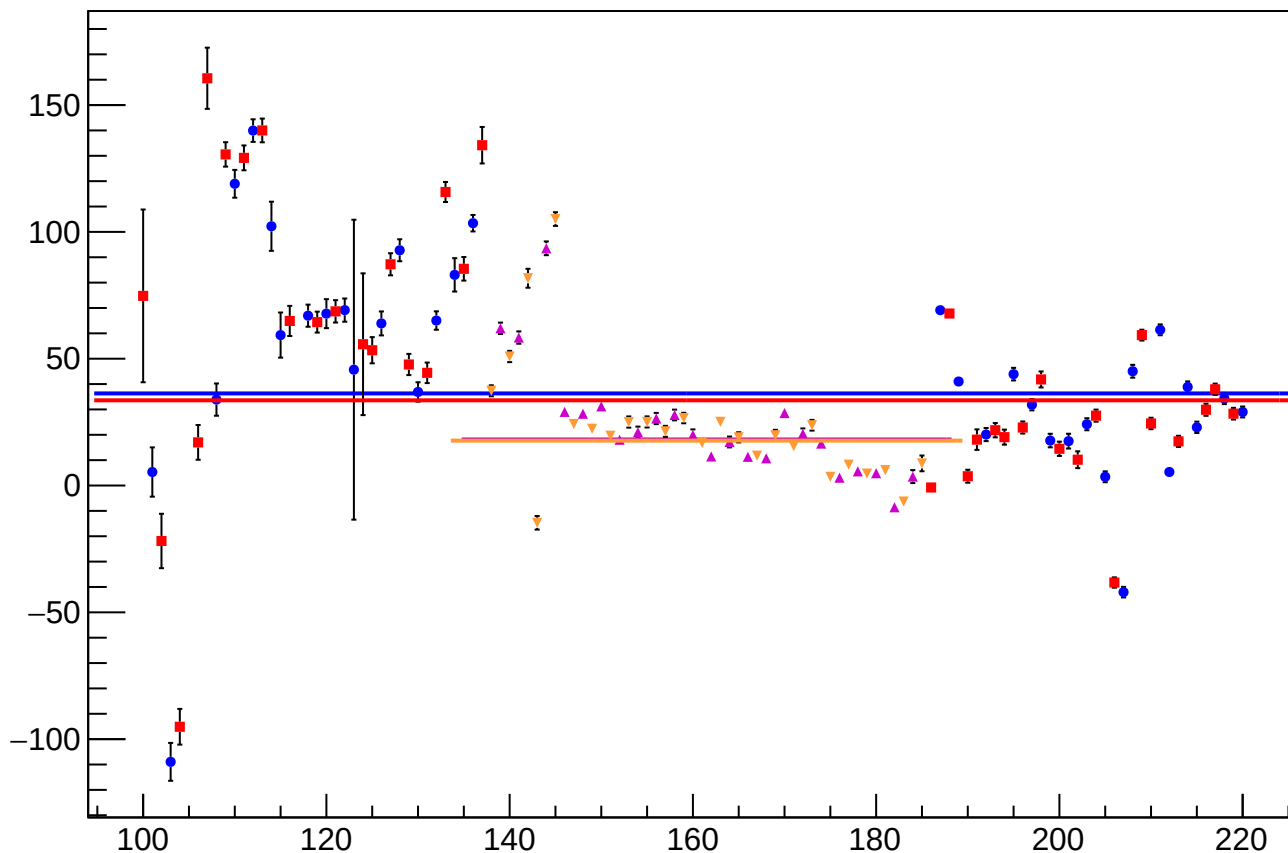
Right: 12.493 $\pm$ 0.341 χ^2 /NDF: 1761.8/70

In: 9.049 $\pm$ 0.266 χ^2 /NDF:1381.4/56

Out: 8.570 $\pm$ 0.253 χ^2 /NDF:1205.7/61

All: 8.798 $\pm$ 0.184 χ^2 /NDF: 2588.9/118

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.312 $\pm$ 0.482 χ^2 /NDF: 4787.6/33

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.593 $\pm$ 0.411 χ^2 /NDF: 7836.9/36

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

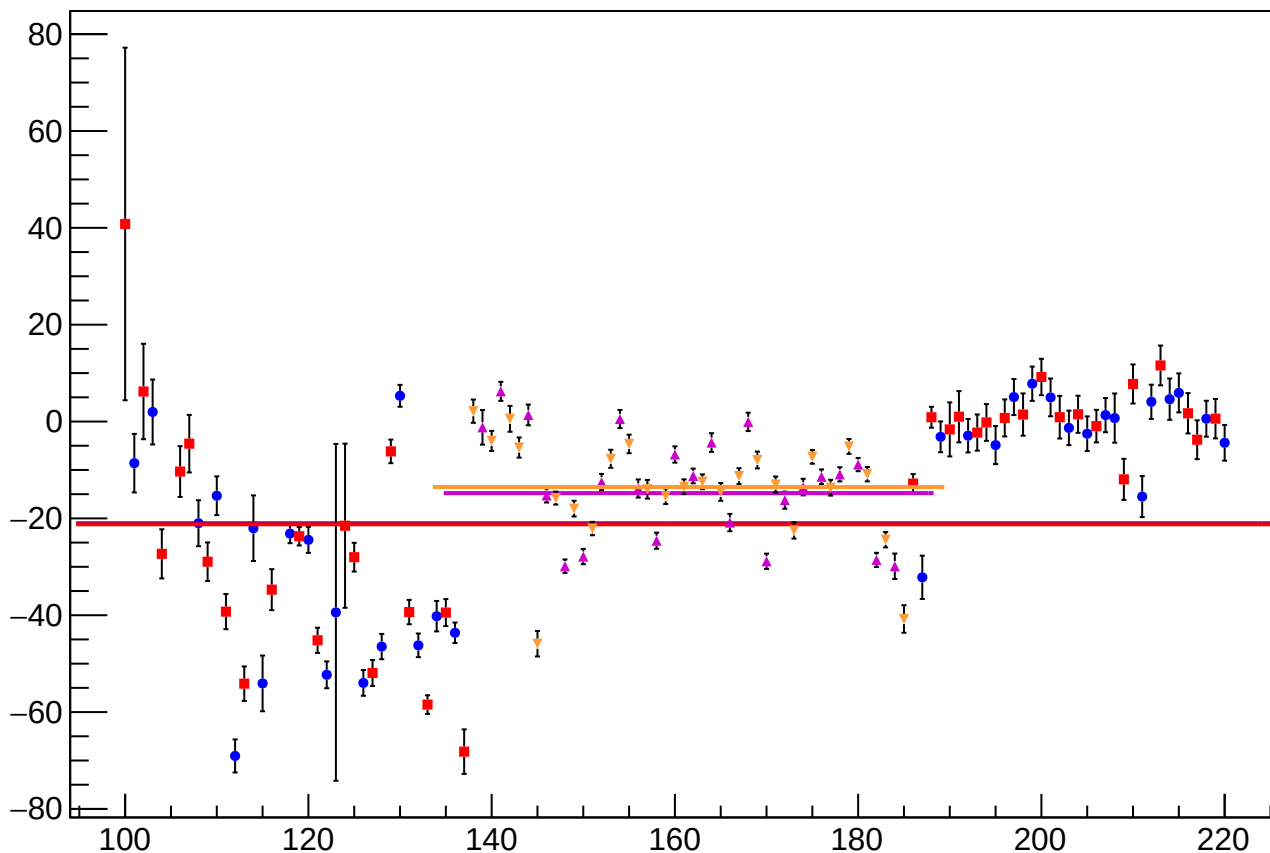
Right: 34.739 $\pm$ 0.313 χ^2 /NDF: 12642.9/70

In: 25.401 $\pm$ 0.304 χ^2 /NDF:7981.5/56

Out: 25.171 $\pm$ 0.282 χ^2 /NDF:11060.1/61

All: 25.277 $\pm$ 0.207 χ^2 /NDF: 19041.9/118

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.024 ± 0.579 χ^2/NDF : 1566.7/33

Left Out: -13.531 ± 0.344 χ^2/NDF : 572.8/24

Right Out: -21.216 ± 0.553 χ^2/NDF : 1611.9/36

Left In: -14.778 ± 0.354 χ^2/NDF : 838.0/22

Left: -14.136 ± 0.247 χ^2/NDF : 1417.2/47

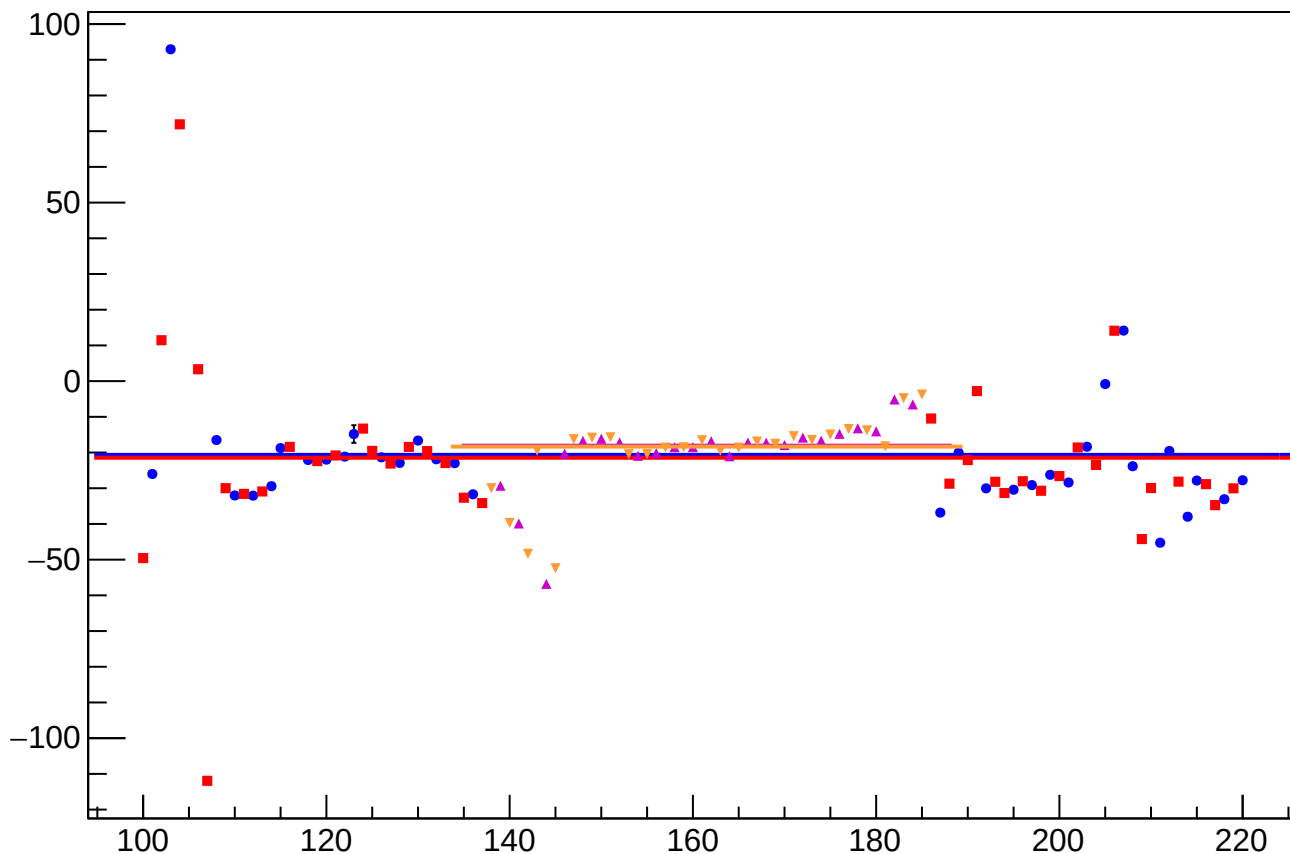
Right: -21.125 ± 0.400 χ^2/NDF : 3178.7/70

In: -16.479 ± 0.302 χ^2/NDF : 2489.5/56

Out: -15.678 ± 0.292 χ^2/NDF : 2324.2/61

All: -16.065 ± 0.210 χ^2/NDF : 4817.3/118

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.654 ± 0.028 $\chi^2/\text{NDF}: 624033.2/33$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -21.457 ± 0.027 $\chi^2/\text{NDF}: 584818.5/36$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

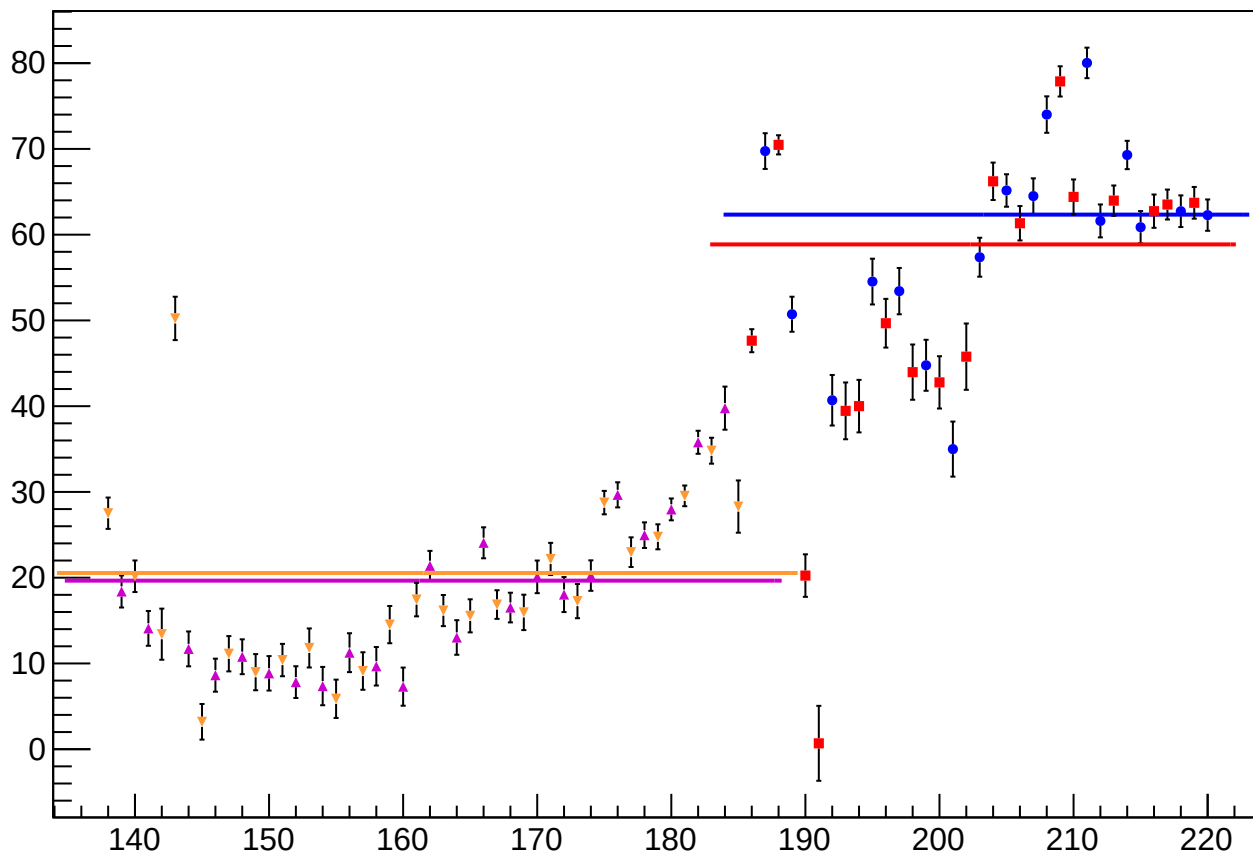
Right: -21.068 ± 0.019 $\chi^2/\text{NDF}: 1209278.4/70$

In: -18.725 ± 0.014 $\chi^2/\text{NDF}: 872354.0/56$

Out: -19.133 ± 0.014 $\chi^2/\text{NDF}: 878908.2/61$

All: -18.933 ± 0.010 $\chi^2/\text{NDF}: 1751699.4/118$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.338 ± 0.511 χ^2/NDF : 381.5/16

Left Out: 20.550 ± 0.373 χ^2/NDF : 626.4/24

Right Out: 58.865 ± 0.477 χ^2/NDF : 903.7/17

Left In: 19.656 ± 0.380 χ^2/NDF : 571.8/22

Left: 20.112 ± 0.266 χ^2/NDF : 1201.0/47

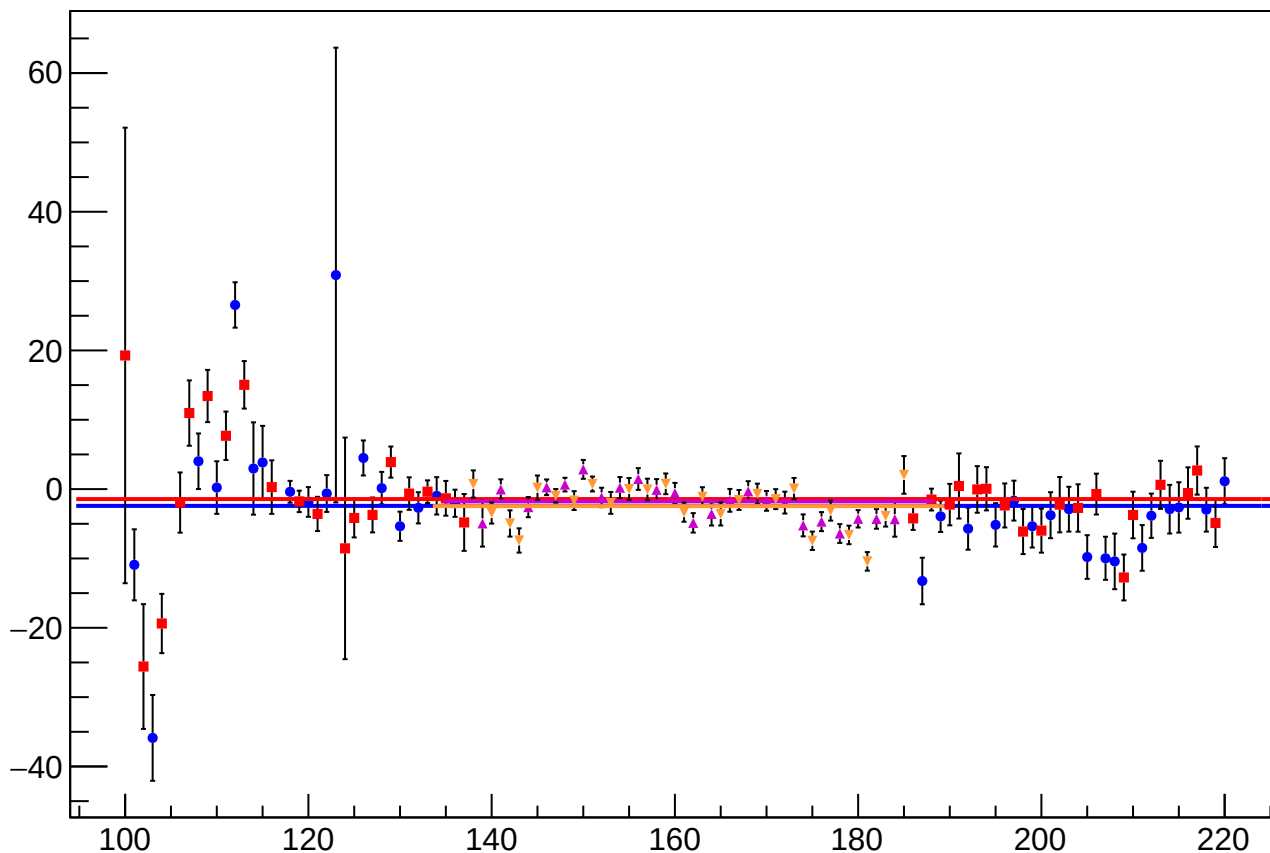
Right: 60.483 ± 0.349 χ^2/NDF : 1309.9/34

In: 34.873 ± 0.305 χ^2/NDF : 5441.7/39

Out: 35.082 ± 0.294 χ^2/NDF : 5530.8/42

All: 34.981 ± 0.212 χ^2/NDF : 10972.7/82

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.419 ± 0.501 $\chi^2/\text{NDF}: 163.8/33$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.437 ± 0.472 $\chi^2/\text{NDF}: 110.4/36$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

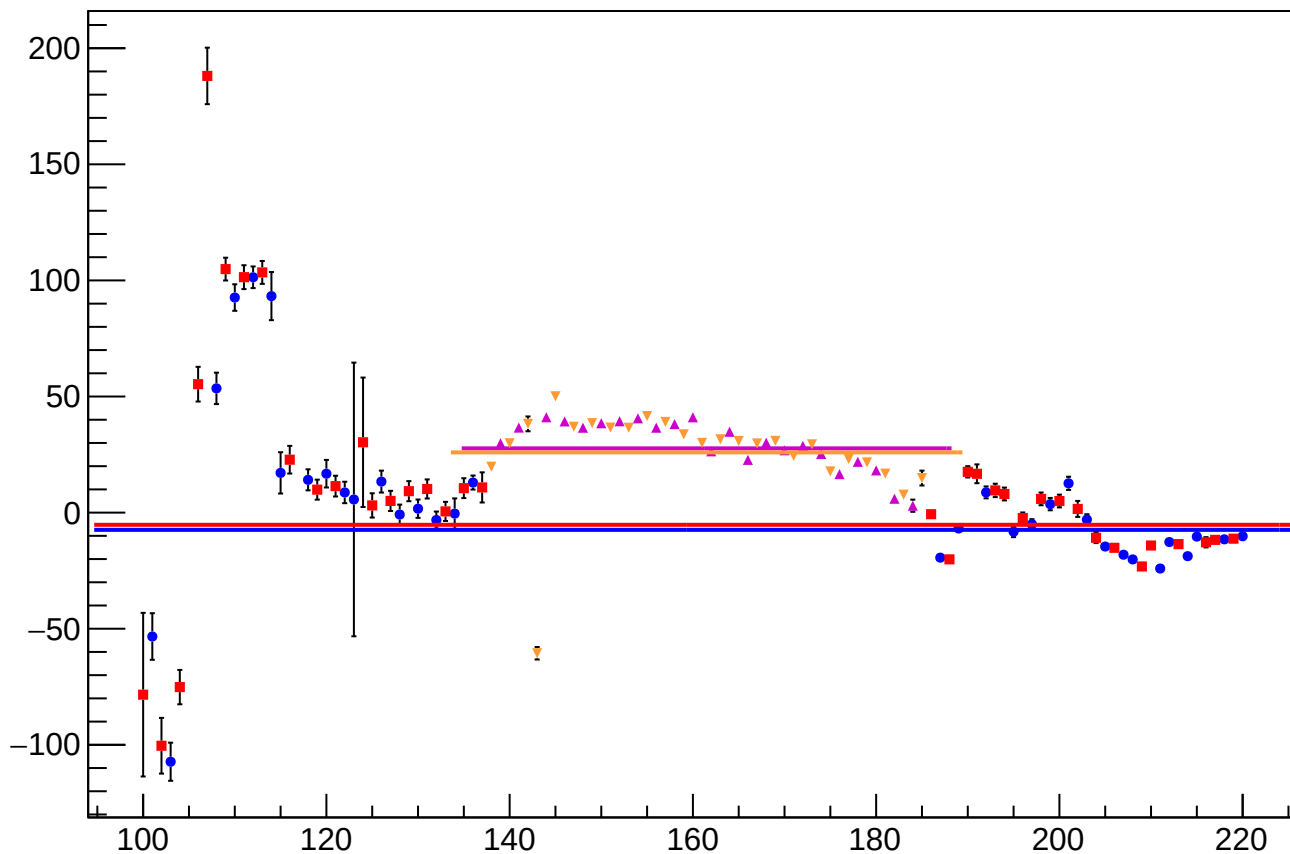
Right: -1.899 ± 0.343 $\chi^2/\text{NDF}: 276.3/70$

In: -1.934 ± 0.259 $\chi^2/\text{NDF}: 232.5/56$

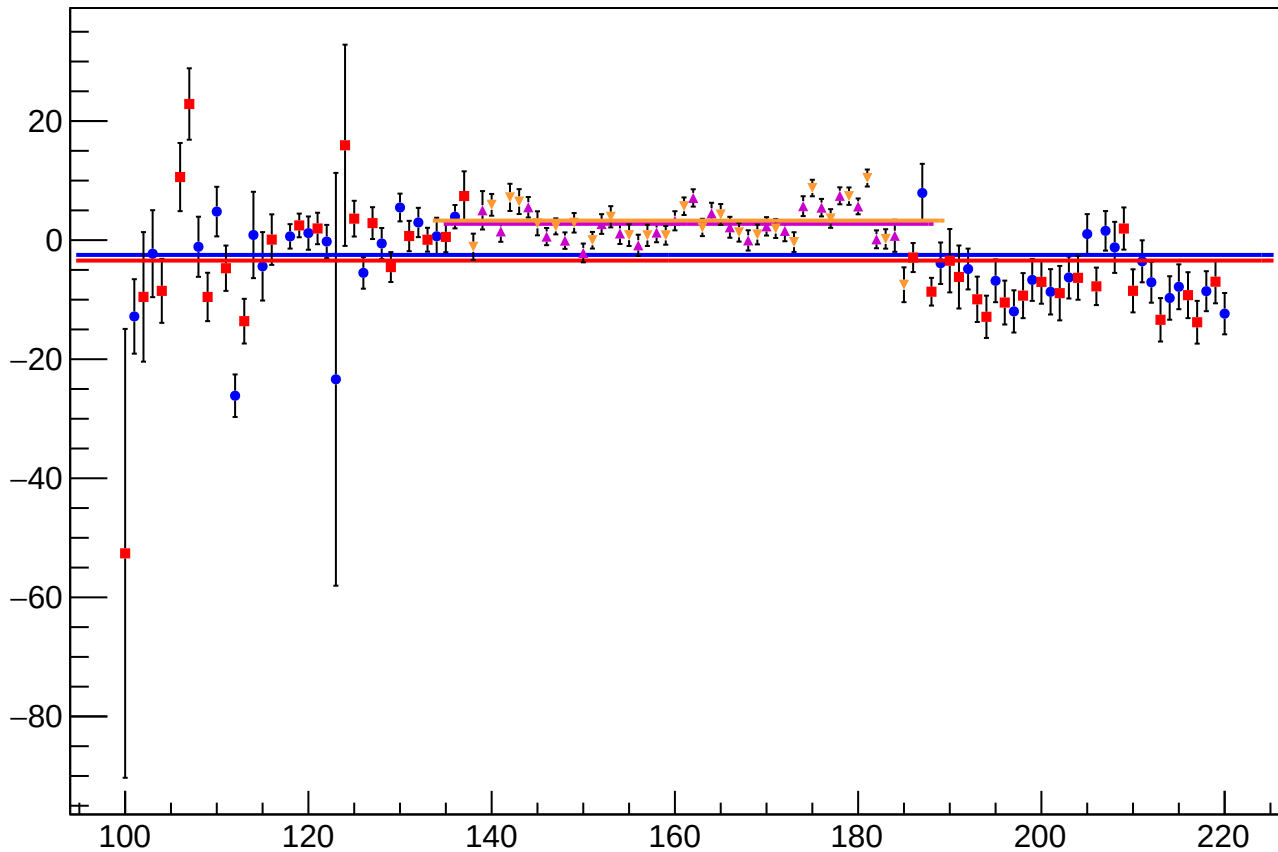
Out: -2.173 ± 0.248 $\chi^2/\text{NDF}: 219.7/61$

All: -2.058 ± 0.179 $\chi^2/\text{NDF}: 452.7/118$

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.481 ± 0.570 χ^2/NDF : 125.9/33

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.431 ± 0.555 χ^2/NDF : 128.5/36

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

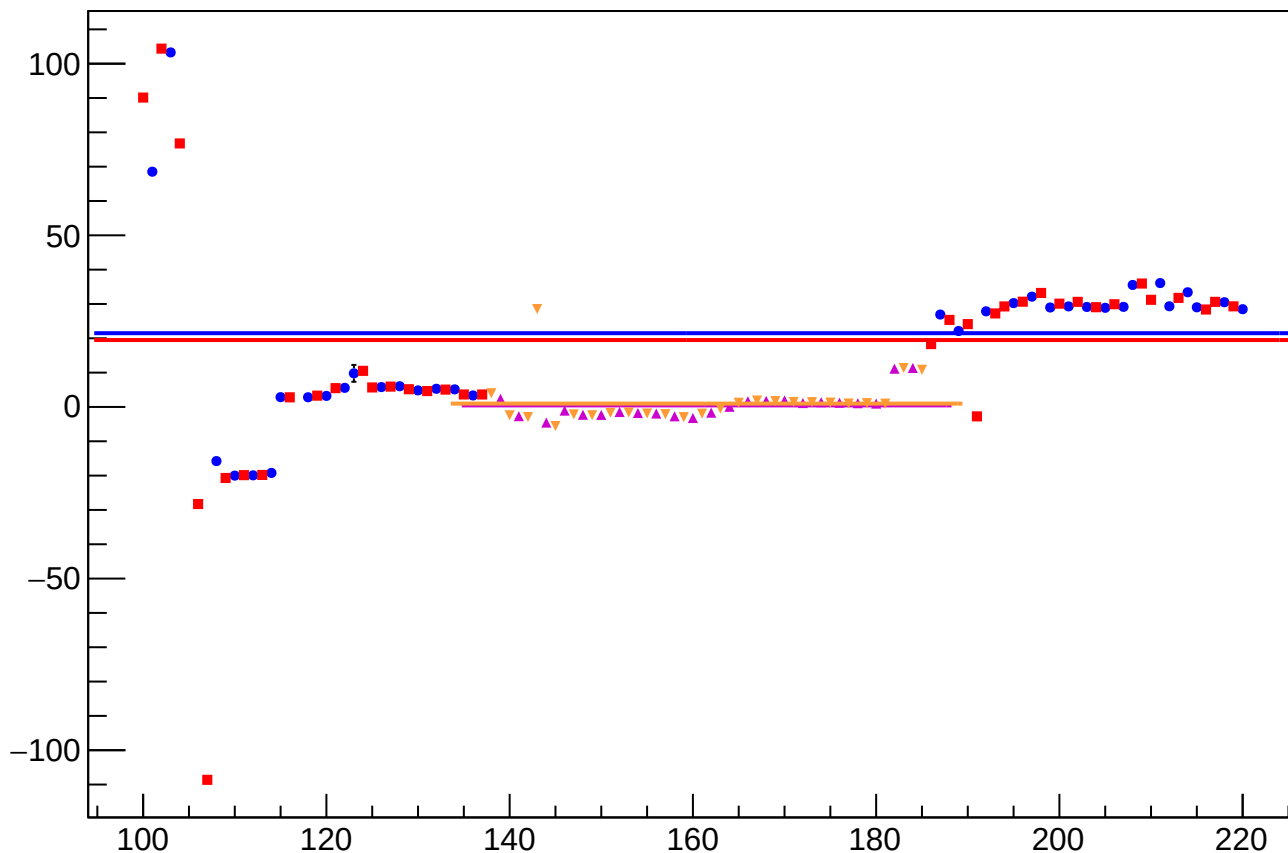
Right: -2.969 ± 0.398 χ^2/NDF : 255.8/70

In: 1.362 ± 0.293 χ^2/NDF : 252.0/56

Out: 1.520 ± 0.285 χ^2/NDF : 338.6/61

All: 1.443 ± 0.204 χ^2/NDF : 590.8/118

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.490 $\pm$ 0.027 χ^2 /NDF: 517548.0/33

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 19.491 $\pm$ 0.027 χ^2 /NDF: 751955.1/36

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

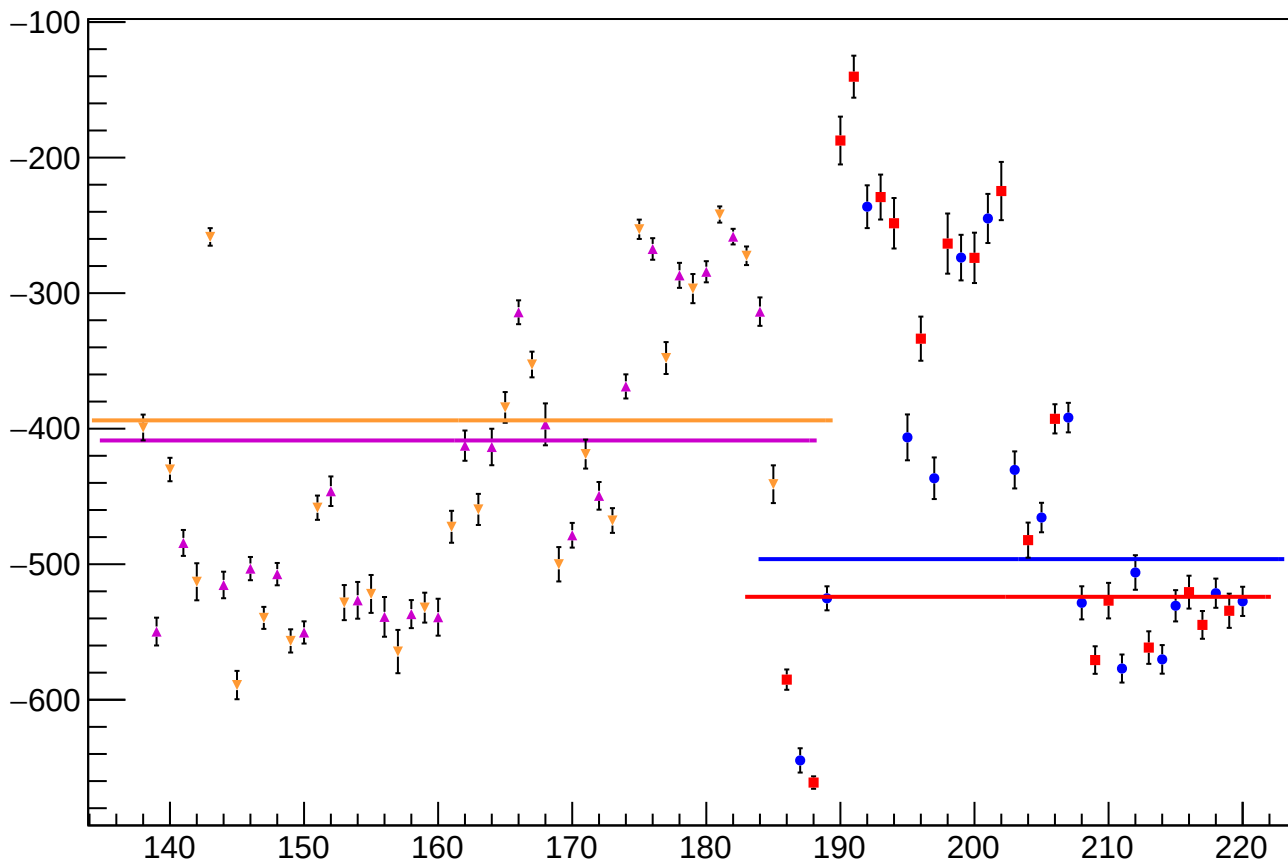
Right: 20.468 $\pm$ 0.019 χ^2 /NDF: 1272272.2/70

In: 5.587 $\pm$ 0.013 χ^2 /NDF: 1022006.5/56

Out: 5.541 $\pm$ 0.013 χ^2 /NDF: 1235312.1/61

All: 5.564 $\pm$ 0.009 χ^2 /NDF: 2257324.6/118

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -496.240 ± 2.867 $\chi^2/\text{NDF}: 1230.2/16$

Left Out: -393.871 ± 1.897 $\chi^2/\text{NDF}: 3772.8/24$

Right Out: -524.047 ± 2.586 $\chi^2/\text{NDF}: 3313.5/17$

Left In: -408.696 ± 1.979 $\chi^2/\text{NDF}: 3062.9/22$

Left: -400.970 ± 1.369 $\chi^2/\text{NDF}: 6864.9/47$

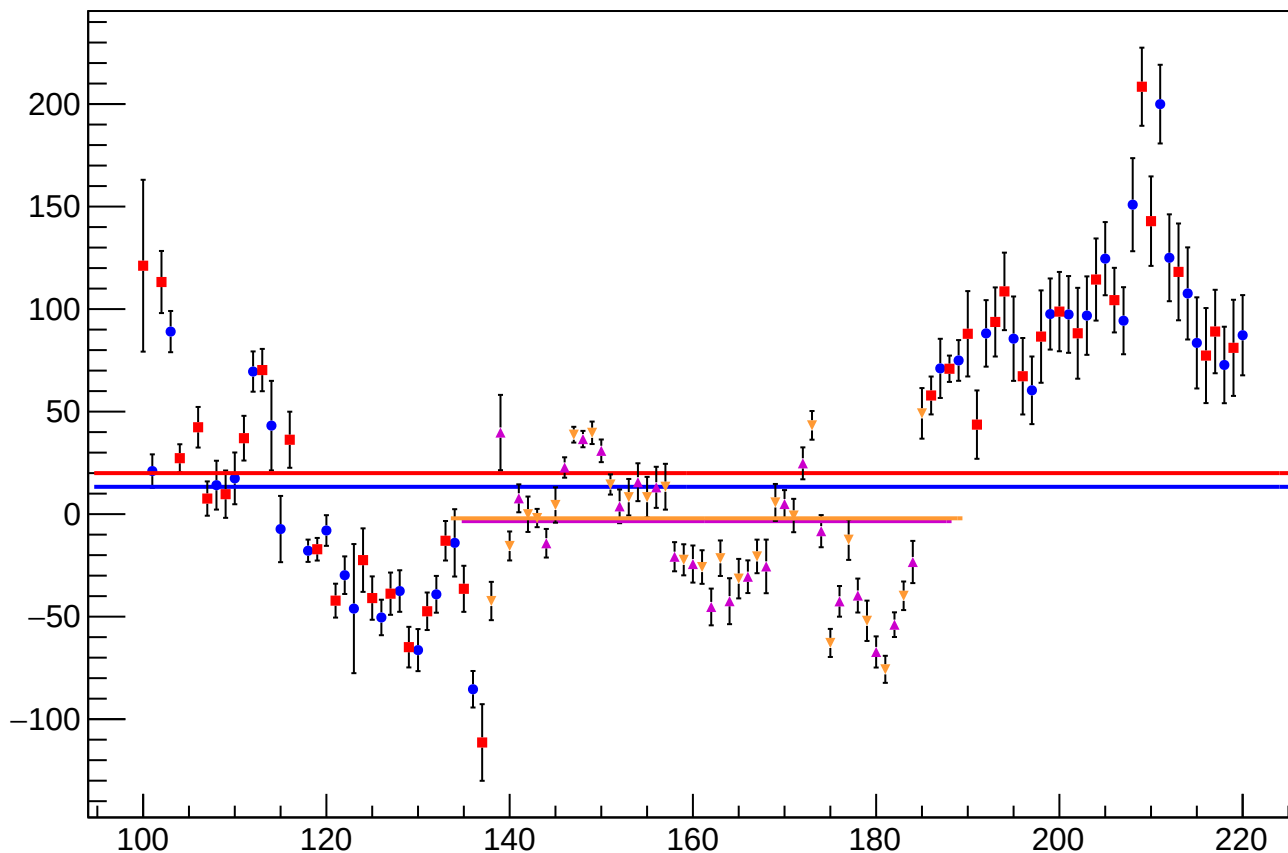
Right: -511.575 ± 1.920 $\chi^2/\text{NDF}: 4595.5/34$

In: -436.943 ± 1.629 $\chi^2/\text{NDF}: 4924.5/39$

Out: -439.422 ± 1.530 $\chi^2/\text{NDF}: 8734.0/42$

All: -438.260 ± 1.115 $\chi^2/\text{NDF}: 13659.7/82$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.319 ± 2.052 $\chi^2/\text{NDF}: 893.9/33$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 20.000 ± 1.915 $\chi^2/\text{NDF}: 866.6/36$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

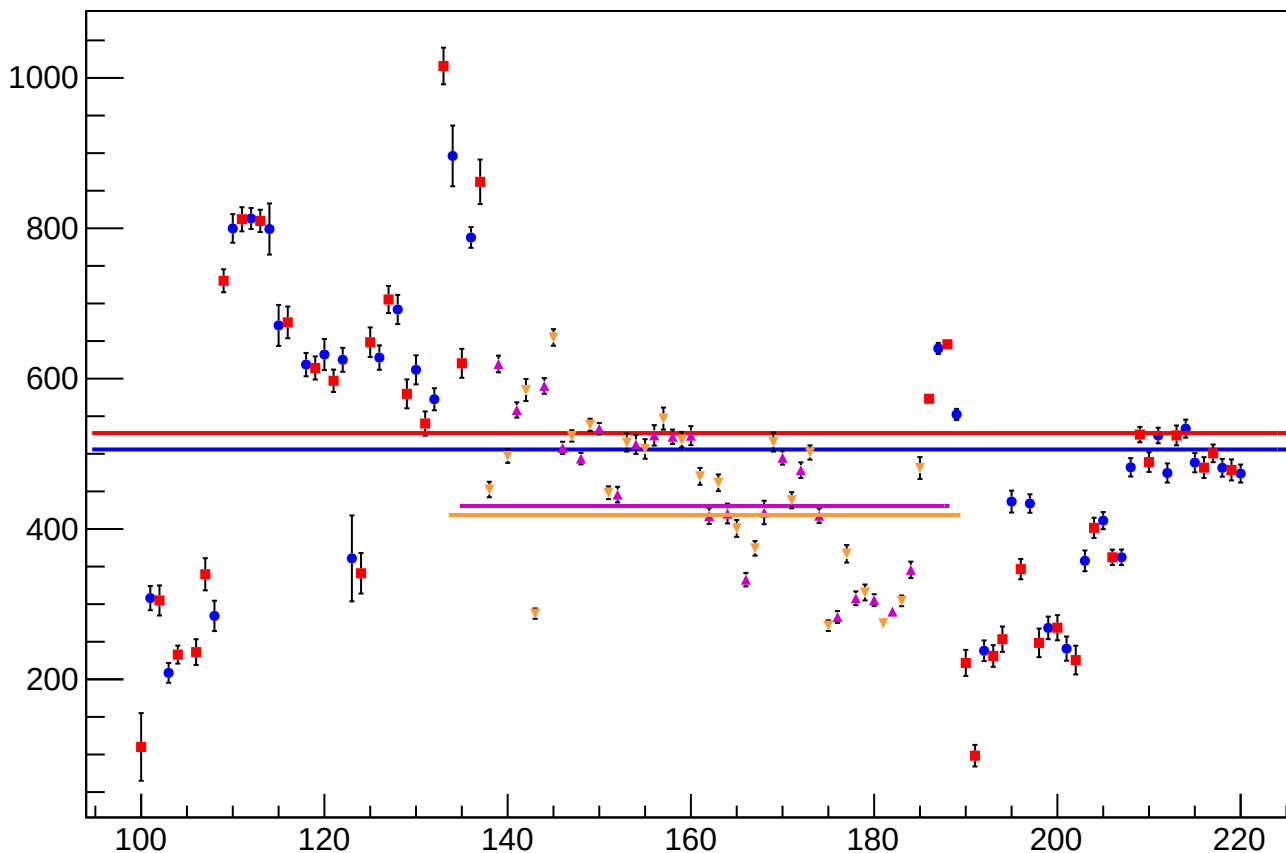
Right: 16.889 ± 1.400 $\chi^2/\text{NDF}: 1766.2/70$

In: 2.512 ± 1.221 $\chi^2/\text{NDF}: 1387.8/56$

Out: 5.808 ± 1.143 $\chi^2/\text{NDF}: 1515.7/61$

All: 4.269 ± 0.835 $\chi^2/\text{NDF}: 2907.3/118$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 505.798 ± 2.320 $\chi^2/\text{NDF}: 4216.8/33$

Left Out: 418.680 ± 1.905 $\chi^2/\text{NDF}: 3296.5/24$

Right Out: 527.637 ± 2.023 $\chi^2/\text{NDF}: 7118.8/36$

Left In: 430.640 ± 1.971 $\chi^2/\text{NDF}: 2850.6/22$

Left: 424.457 ± 1.370 $\chi^2/\text{NDF}: 6166.1/47$

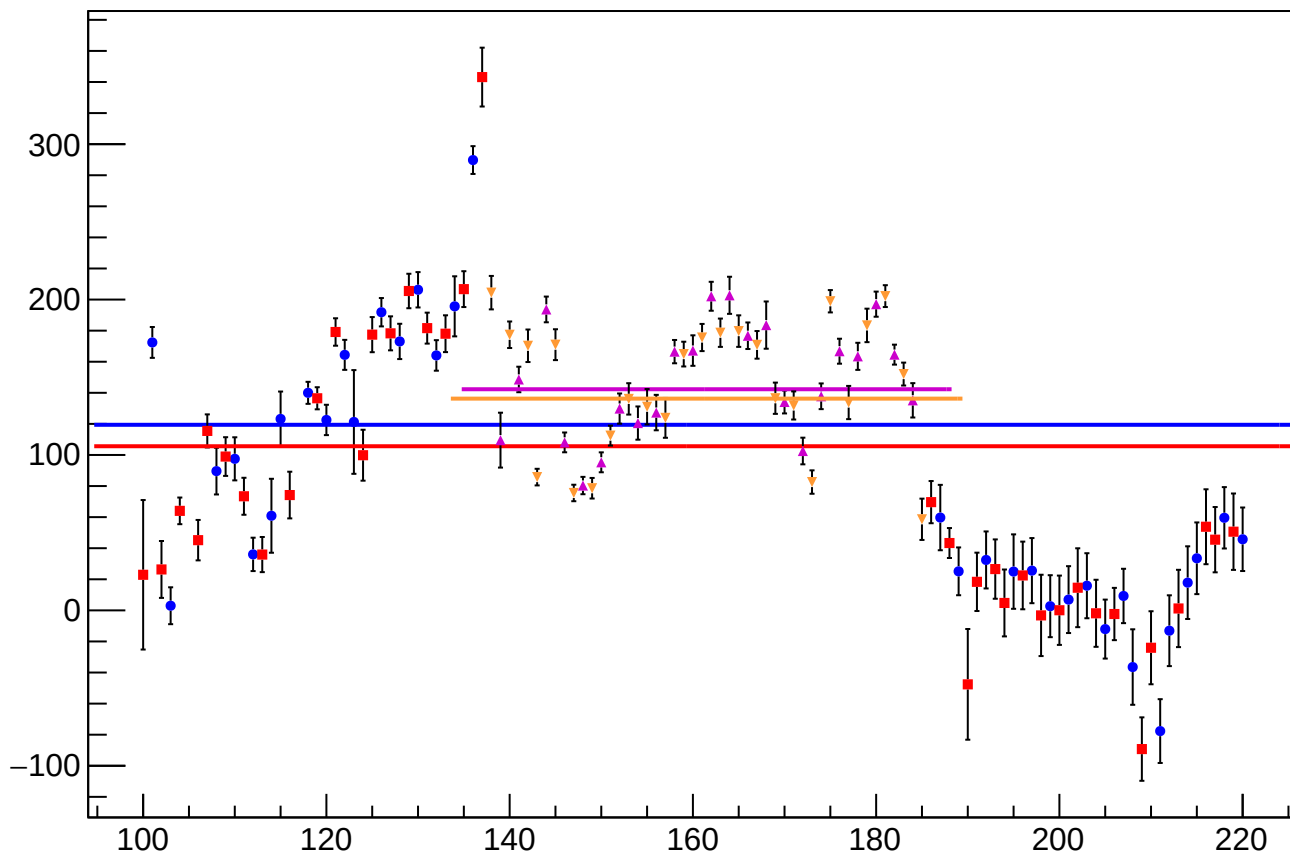
Right: 518.203 ± 1.525 $\chi^2/\text{NDF}: 11386.0/70$

In: 462.146 ± 1.502 $\chi^2/\text{NDF}: 7677.1/56$

Out: 469.888 ± 1.387 $\chi^2/\text{NDF}: 11953.0/61$

All: 466.325 ± 1.019 $\chi^2/\text{NDF}: 19644.4/118$

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 119.416 $\pm$ 2.378 χ^2/NDF : 1270.2/33

Left Out: 136.258 $\pm$ 1.651 χ^2/NDF : 758.3/24

Right Out: 105.616 $\pm$ 2.266 χ^2/NDF : 1119.7/36

Left In: 142.296 $\pm$ 1.745 χ^2/NDF : 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2/NDF : 1224.4/47

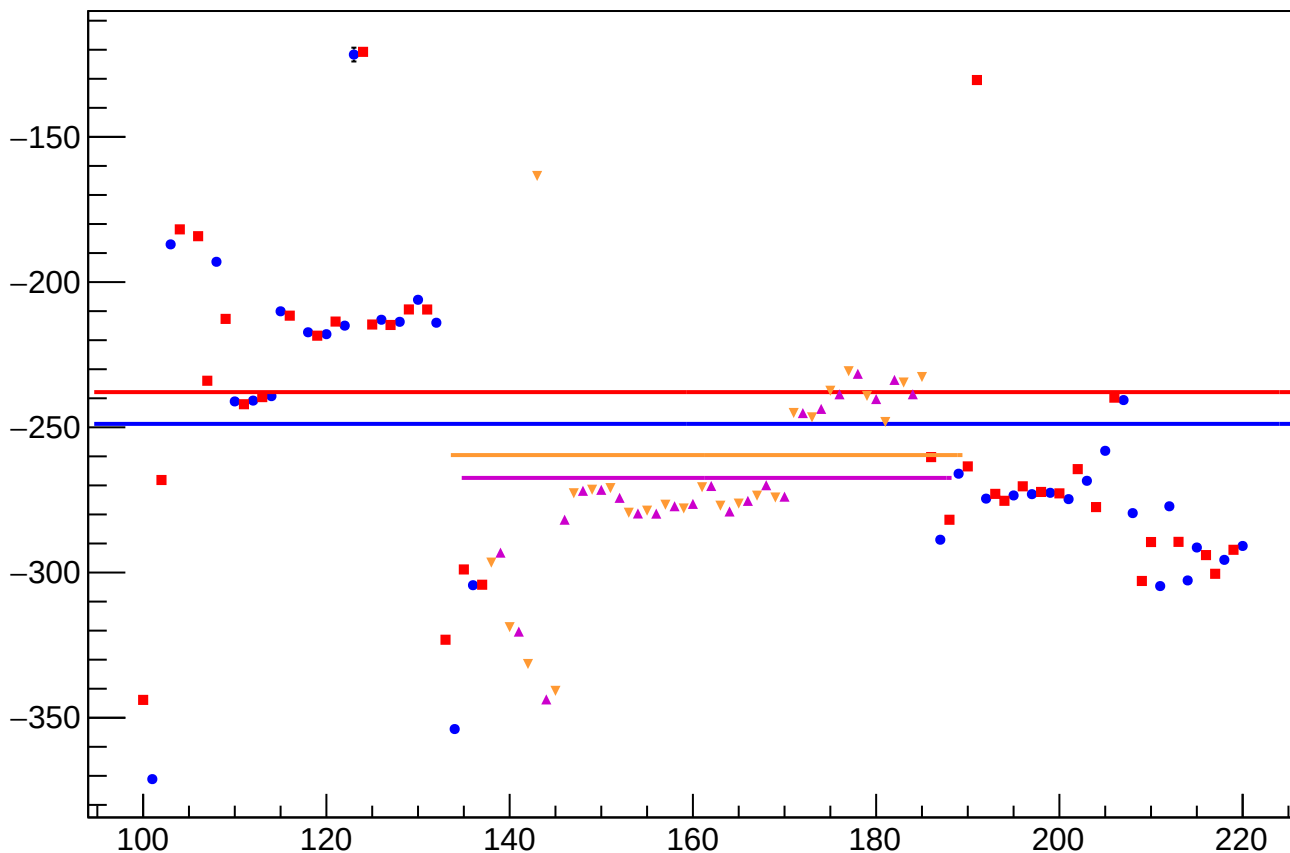
Right: 112.184 $\pm$ 1.641 χ^2/NDF : 2407.6/70

In: 134.291 $\pm$ 1.407 χ^2/NDF : 1790.2/56

Out: 125.634 $\pm$ 1.334 χ^2/NDF : 1997.5/61

All: 129.734 $\pm$ 0.968 χ^2/NDF : 3807.6/118

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.815 $\pm$ 0.119 χ^2 /NDF: 175526.0/33

Left Out: -259.557 $\pm$ 0.079 χ^2 /NDF:238235.2/24

Right Out: -237.880 $\pm$ 0.111 χ^2 /NDF: 189121.1/36

Left In: -267.417 $\pm$ 0.082 χ^2 /NDF:98035.5/22

Left: -263.361 $\pm$ 0.057 χ^2 /NDF: 341051.4/47

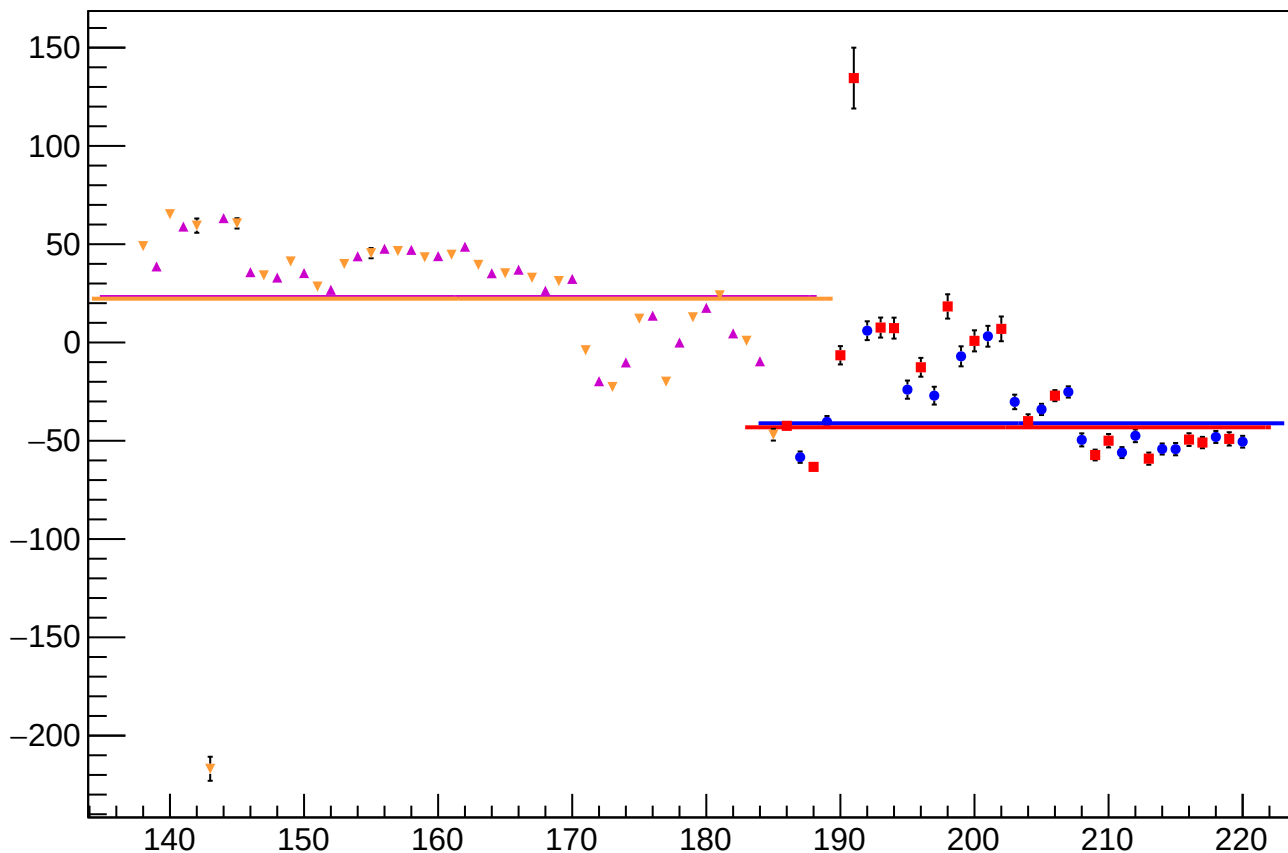
Right: -242.993 $\pm$ 0.081 χ^2 /NDF: 369167.6/70

In: -261.438 $\pm$ 0.067 χ^2 /NDF:290237.4/56

Out: -252.276 $\pm$ 0.064 χ^2 /NDF:452586.6/61

All: -256.661 $\pm$ 0.047 χ^2 /NDF: 752492.7/118

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.113 ± 0.810 $\chi^2/\text{NDF}: 409.2/16$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -43.153 ± 0.740 $\chi^2/\text{NDF}: 923.4/17$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

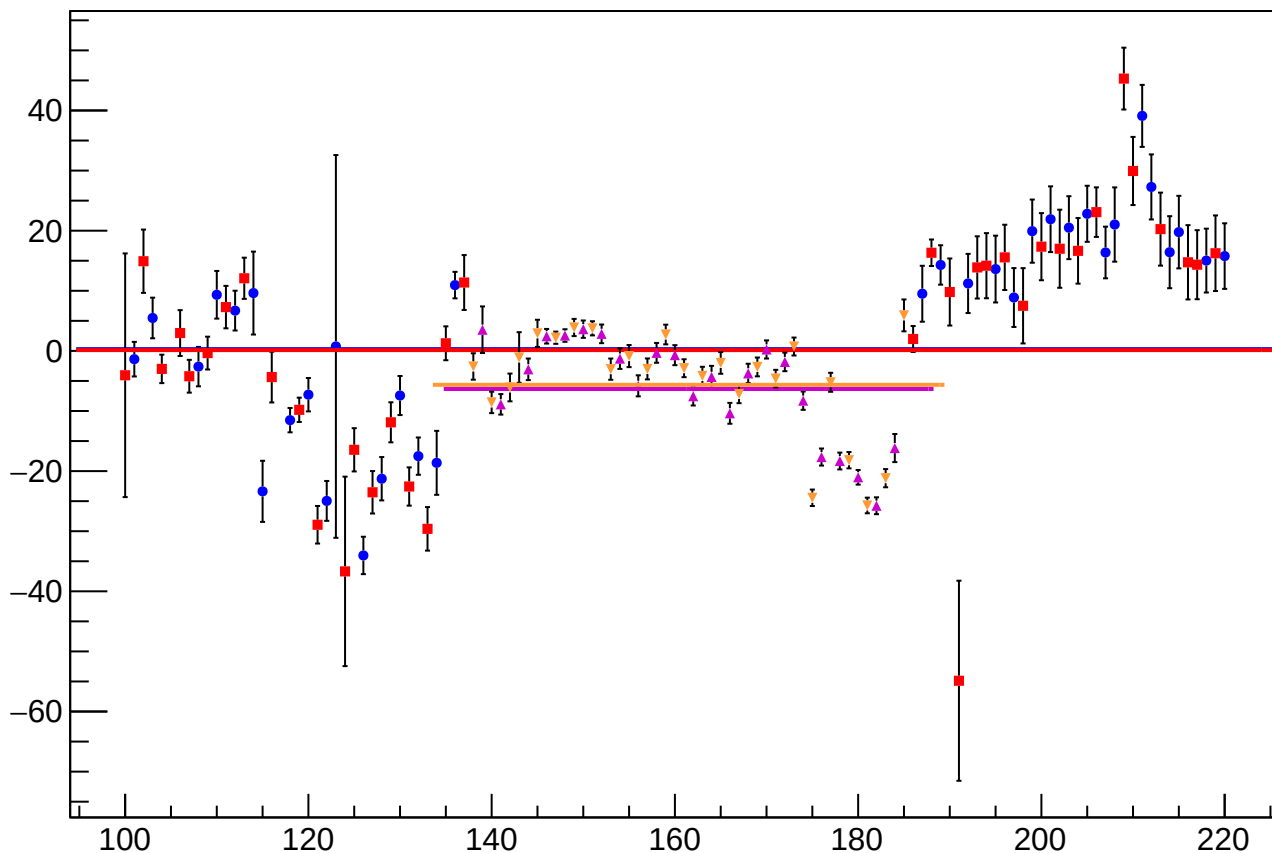
Right: -42.225 ± 0.546 $\chi^2/\text{NDF}: 1336.0/34$

In: 10.459 ± 0.360 $\chi^2/\text{NDF}: 8207.6/39$

Out: 7.555 ± 0.351 $\chi^2/\text{NDF}: 12153.4/42$

All: 8.972 ± 0.251 $\chi^2/\text{NDF}: 20394.4/82$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.290 ± 0.662 χ^2/NDF : 611.2/33

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: 0.132 ± 0.616 χ^2/NDF : 632.0/36

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

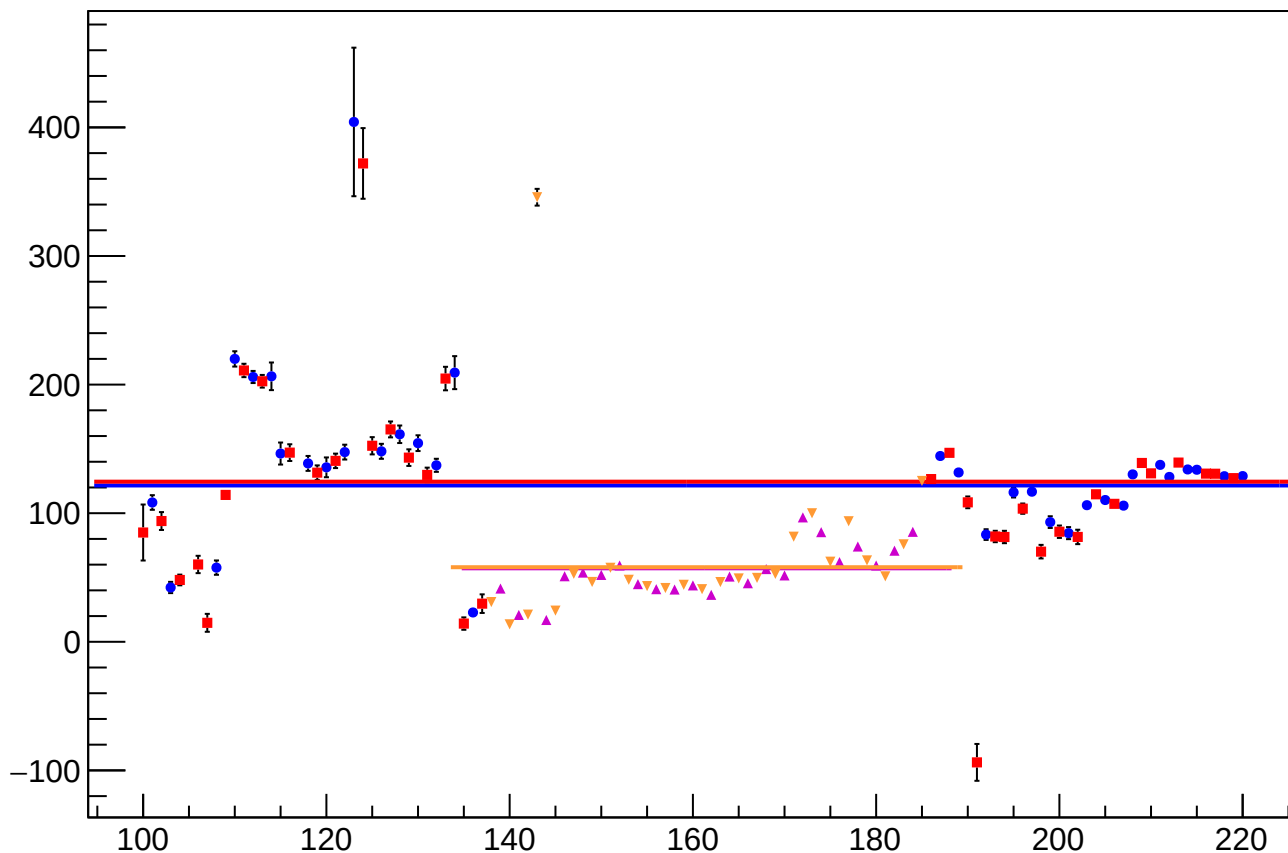
Right: 0.205 ± 0.451 χ^2/NDF : 1243.2/70

In: -5.074 ± 0.289 χ^2/NDF : 1475.3/56

Out: -4.442 ± 0.281 χ^2/NDF : 1595.3/61

All: -4.749 ± 0.201 χ^2/NDF : 3073.1/118

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.561 $\pm$ 0.688 χ^2 /NDF: 2612.7/33

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.520 $\pm$ 0.603 χ^2 /NDF: 3279.8/36

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

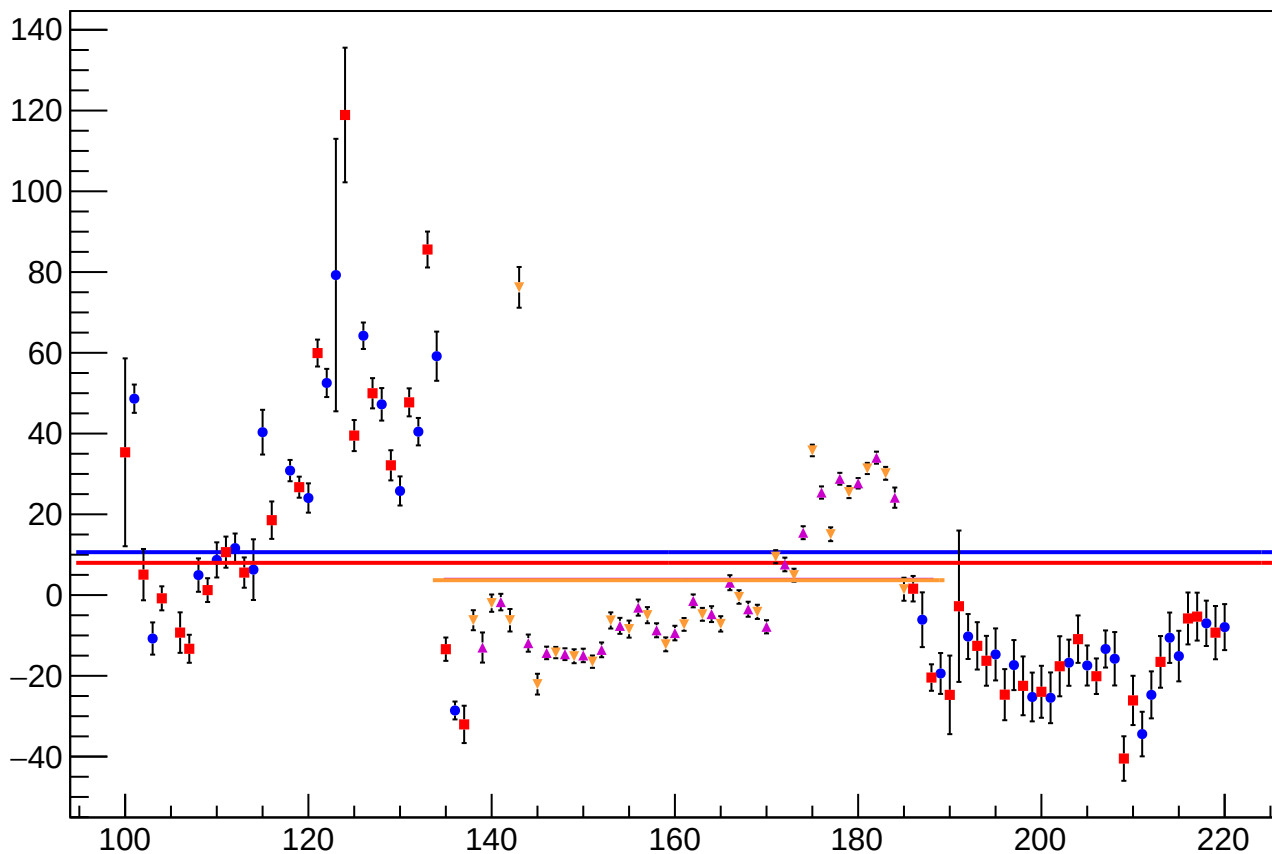
Right: 123.235 $\pm$ 0.453 χ^2 /NDF: 5902.9/70

In: 73.393 $\pm$ 0.345 χ^2 /NDF:10975.2/56

Out: 78.195 $\pm$ 0.332 χ^2 /NDF:16404.2/61

All: 75.889 $\pm$ 0.239 χ^2 /NDF: 27479.8/118

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.623+/-0.757 χ^2 /NDF: 1630.2/33

Left Out: 3.684+/-0.357 χ^2 /NDF:2541.7/24

Right Out: 7.981+/-0.725 χ^2 /NDF: 1599.1/36

Left In: 3.786+/-0.362 χ^2 /NDF:2198.8/22

Left: 3.734+/-0.254 χ^2 /NDF: 4740.5/47

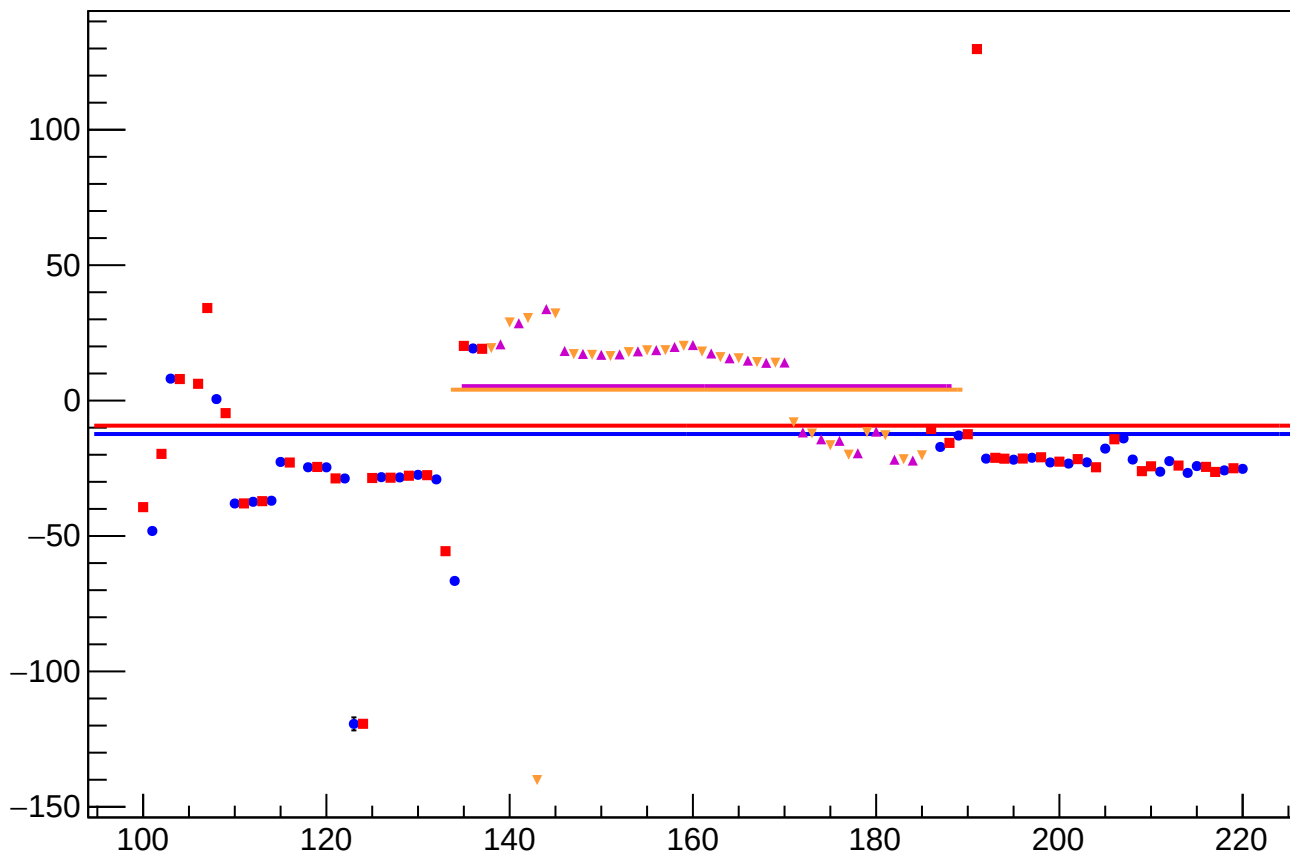
Right: 9.246+/-0.524 χ^2 /NDF: 3235.6/70

In: 5.058+/-0.326 χ^2 /NDF:3895.5/56

Out: 4.522+/-0.320 χ^2 /NDF:4169.0/61

All: 4.785+/-0.229 χ^2 /NDF: 8065.9/118

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.348 ± 0.036 χ^2/NDF : 310206.7/33

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.259 ± 0.035 χ^2/NDF : 403282.2/36

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

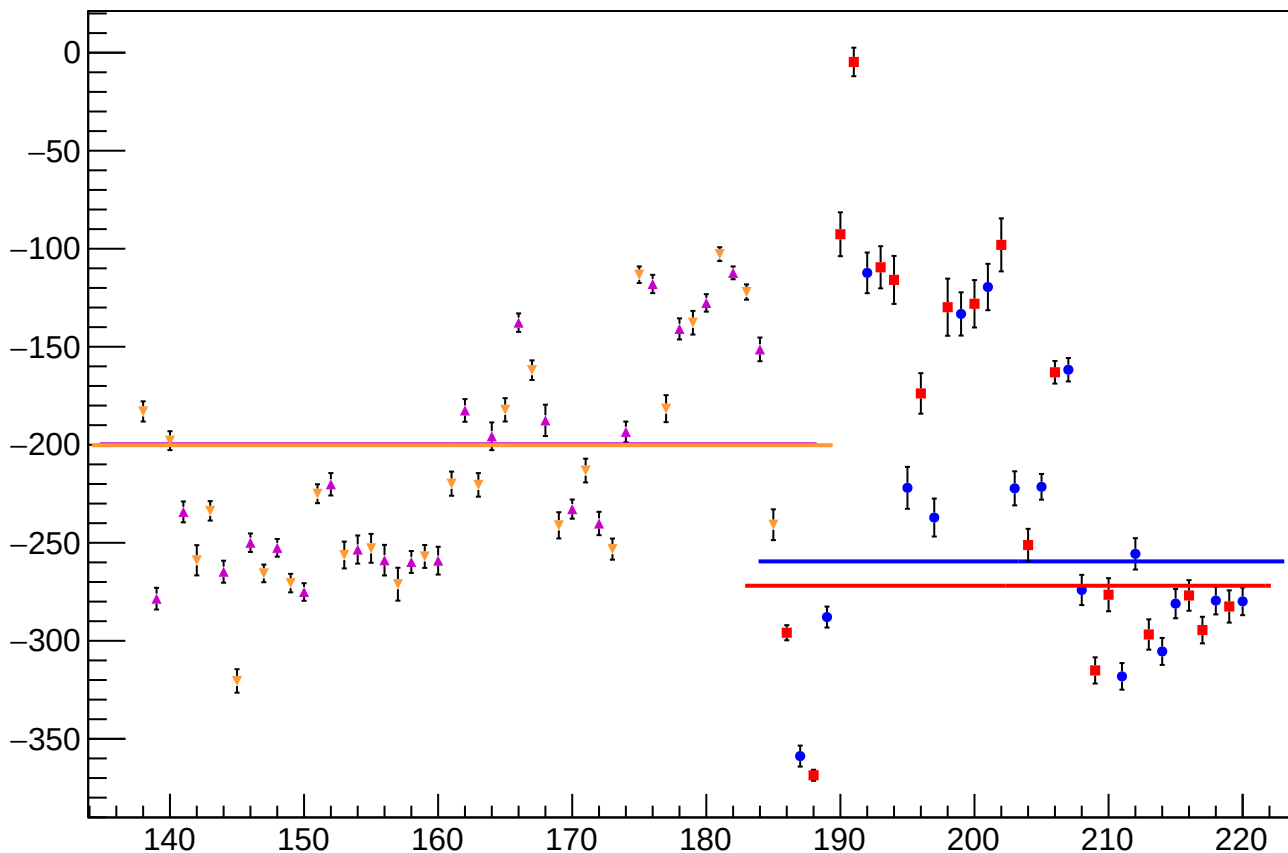
Right: -10.776 ± 0.025 χ^2/NDF : 717326.5/70

In: 2.228 ± 0.015 χ^2/NDF : 1591691.8/56

Out: 1.638 ± 0.015 χ^2/NDF : 1904906.9/61

All: 1.931 ± 0.011 χ^2/NDF : 3497388.7/118

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -259.495 ± 1.790 $\chi^2/\text{NDF}: 1329.1/16$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -271.908 ± 1.556 $\chi^2/\text{NDF}: 4136.0/17$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

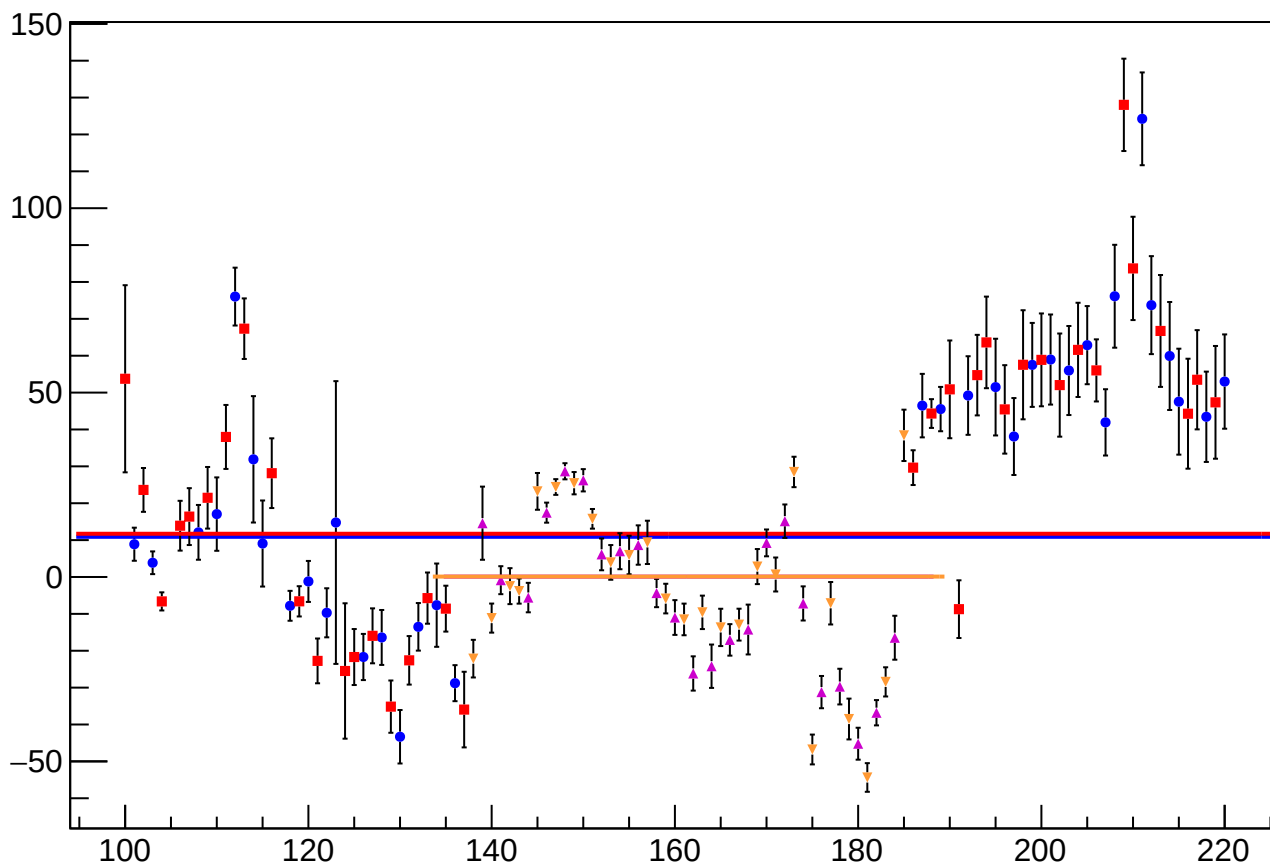
Right: -266.567 ± 1.174 $\chi^2/\text{NDF}: 5492.5/34$

In: -216.057 ± 0.936 $\chi^2/\text{NDF}: 5106.8/39$

Out: -223.473 ± 0.886 $\chi^2/\text{NDF}: 8795.3/42$

All: -219.967 ± 0.643 $\chi^2/\text{NDF}: 13935.2/82$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.899 $\pm$ 1.280 χ^2 /NDF: 614.3/33

Left Out: 0.109 $\pm$ 0.807 χ^2 /NDF:831.2/24

Right Out: 11.722 $\pm$ 1.168 χ^2 /NDF: 682.6/36

Left In: 0.097 $\pm$ 0.838 χ^2 /NDF:715.5/22

Left: 0.103 $\pm$ 0.581 χ^2 /NDF: 1546.7/47

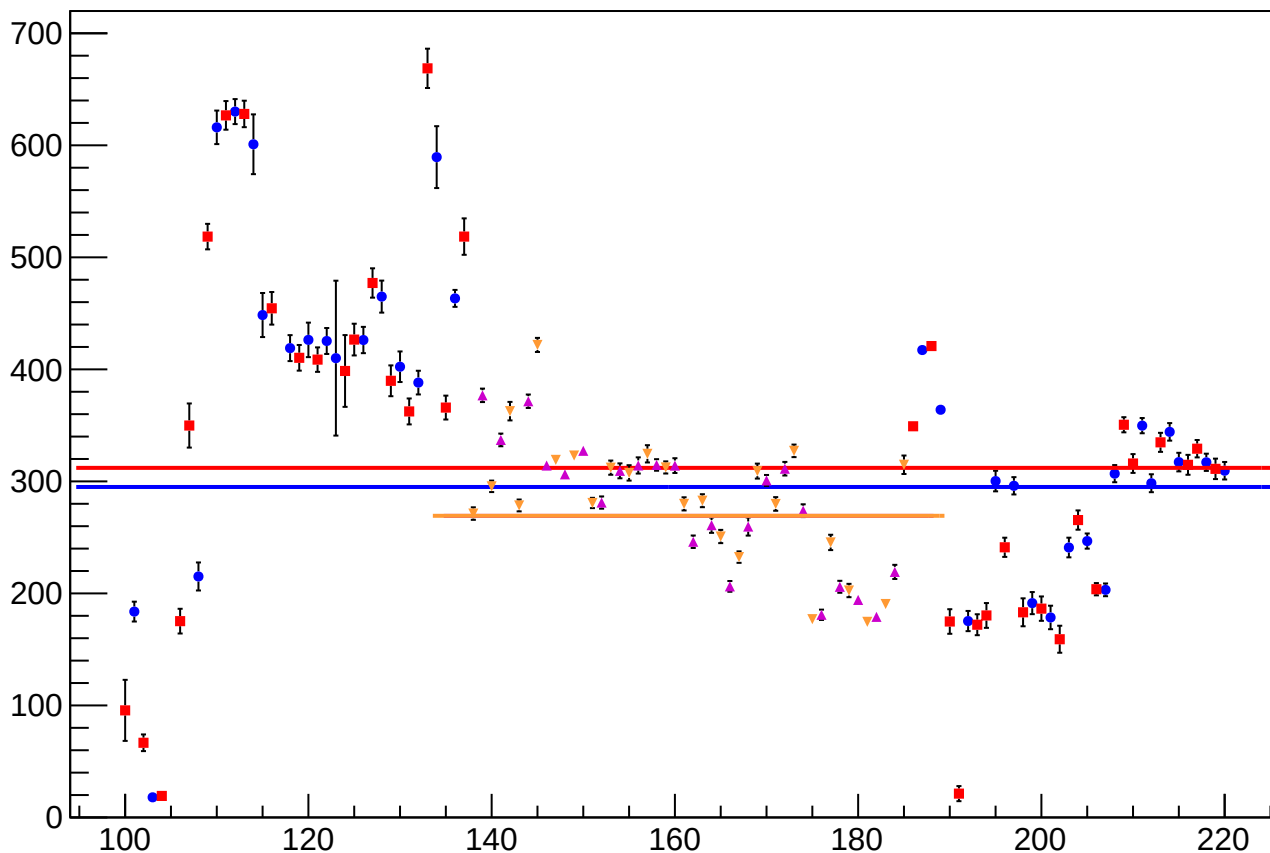
Right: 11.348 $\pm$ 0.863 χ^2 /NDF: 1297.1/70

In: 3.337 $\pm$ 0.701 χ^2 /NDF:1379.6/56

Out: 3.862 $\pm$ 0.664 χ^2 /NDF:1580.8/61

All: 3.613 $\pm$ 0.482 χ^2 /NDF: 2960.6/118

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 295.007 $\pm$ 1.404 χ^2 /NDF: 9657.5/33

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 312.067 $\pm$ 1.203 χ^2 /NDF: 14408.7/36

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

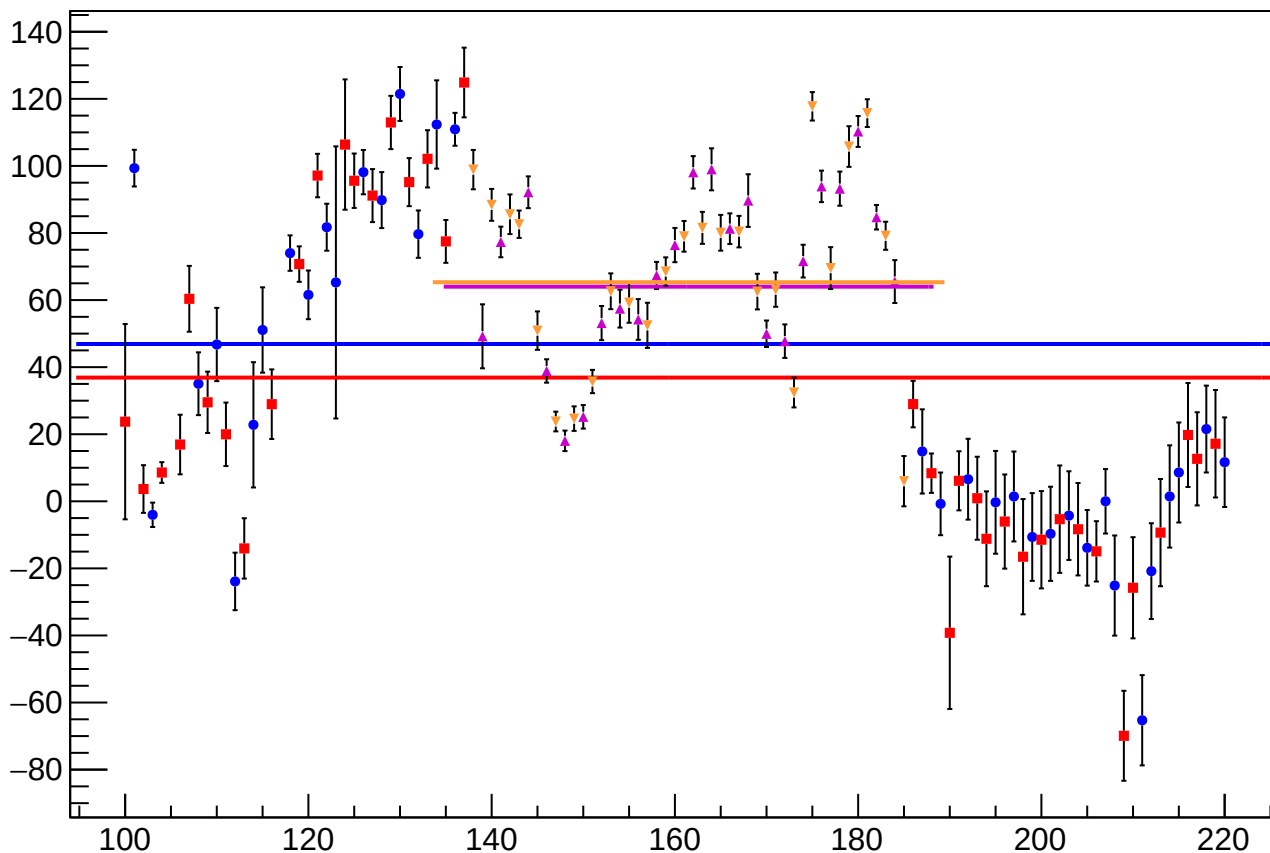
Right: 304.839 $\pm$ 0.914 χ^2 /NDF: 24151.4/70

In: 278.910 $\pm$ 0.861 χ^2 /NDF:13038.7/56

Out: 288.319 $\pm$ 0.803 χ^2 /NDF:18257.0/61

All: 283.944 $\pm$ 0.587 χ^2 /NDF: 31359.6/118

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 46.903 ± 1.487 $\chi^2/\text{NDF}: 1113.7/33$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 36.883 ± 1.403 $\chi^2/\text{NDF}: 965.6/36$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

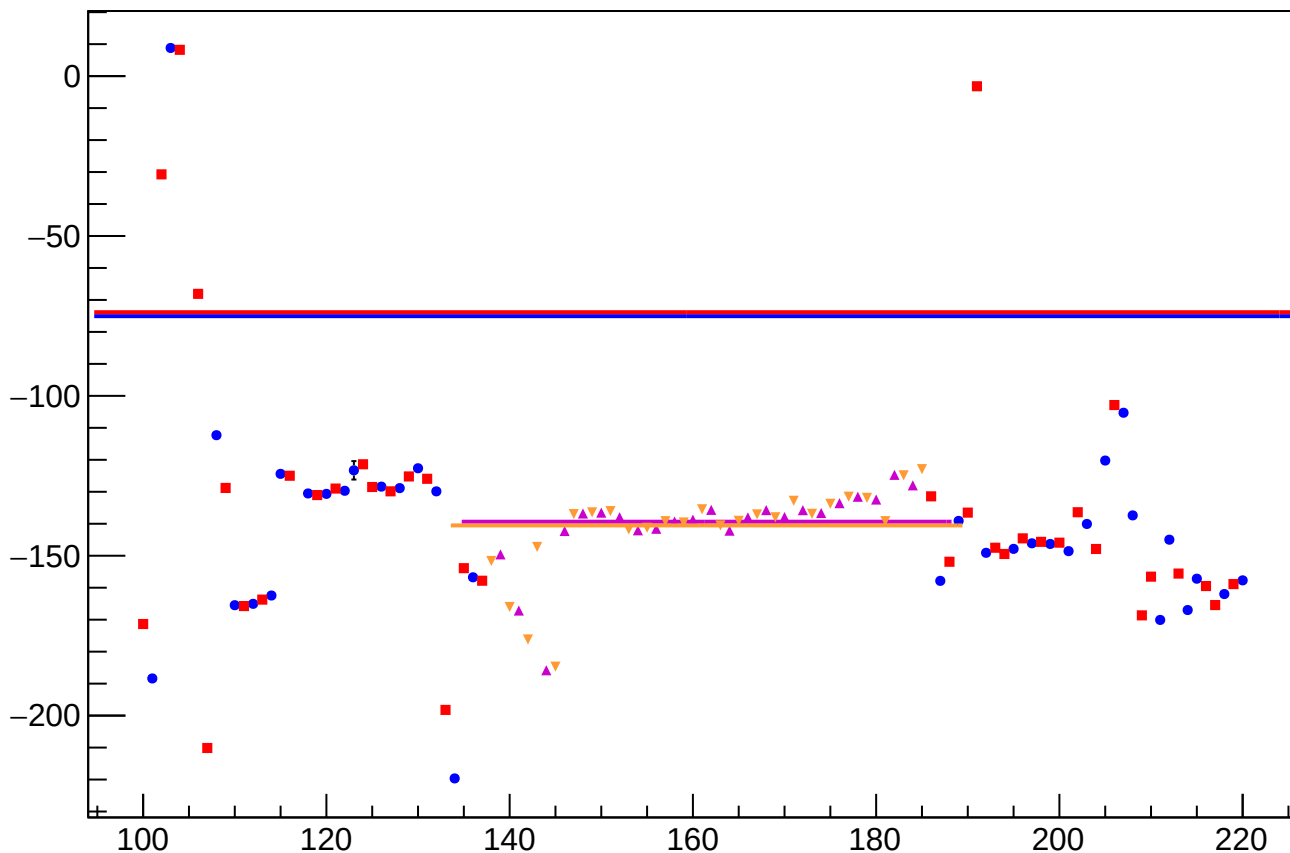
Right: 41.603 ± 1.020 $\chi^2/\text{NDF}: 2103.3/70$

In: 58.947 ± 0.808 $\chi^2/\text{NDF}: 2006.3/56$

Out: 56.580 ± 0.778 $\chi^2/\text{NDF}: 2257.3/61$

All: 57.718 ± 0.560 $\chi^2/\text{NDF}: 4268.1/118$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -75.075 ± 0.061 $\chi^2/\text{NDF}: 1633856.5/33$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.836 ± 0.060 $\chi^2/\text{NDF}: 1465971.0/36$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

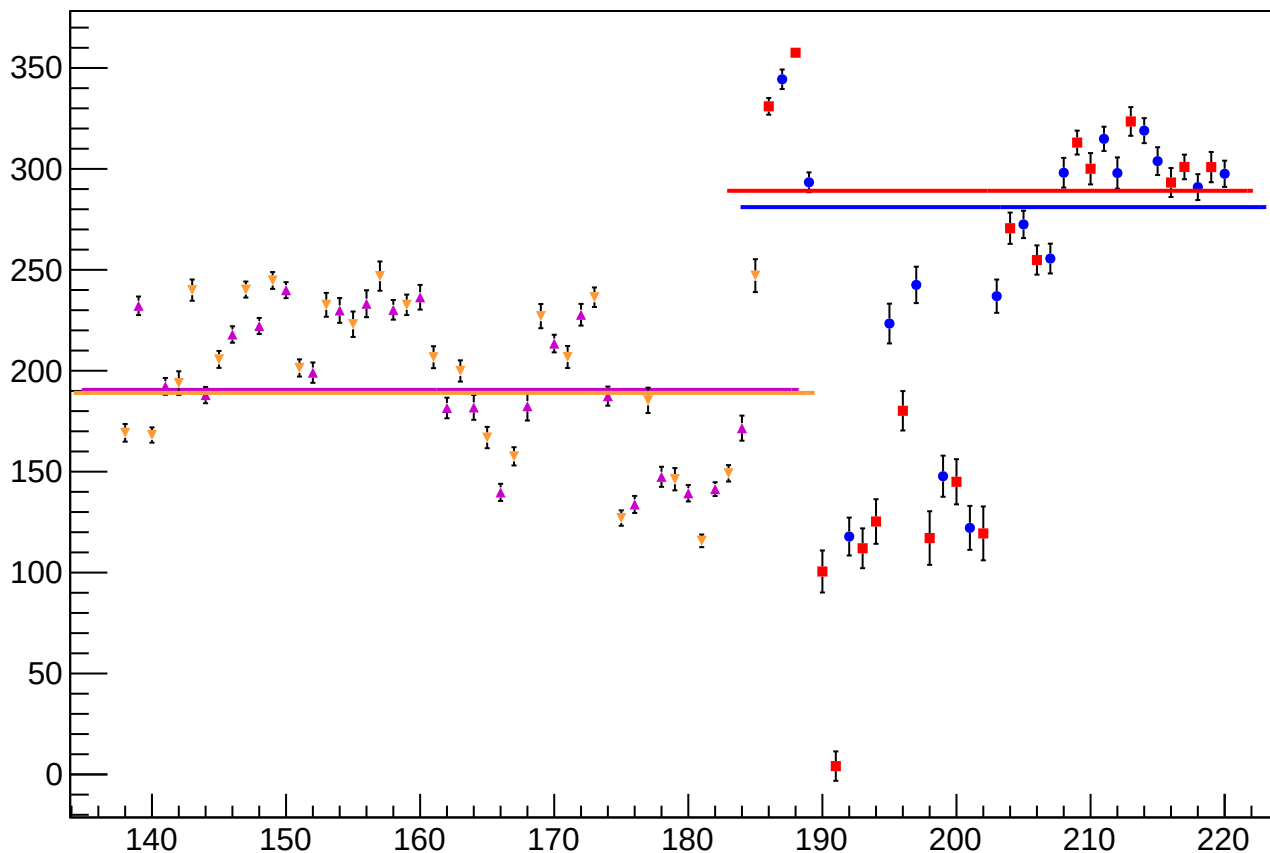
Right: -74.442 ± 0.043 $\chi^2/\text{NDF}: 3100037.5/70$

In: -116.768 ± 0.036 $\chi^2/\text{NDF}: 2413203.2/56$

Out: -116.700 ± 0.036 $\chi^2/\text{NDF}: 2343609.4/61$

All: -116.733 ± 0.025 $\chi^2/\text{NDF}: 4756814.4/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 281.054 $\pm$ 1.694 χ^2 /NDF: 1057.6/16

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 289.162 $\pm$ 1.477 χ^2 /NDF: 3947.6/17

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

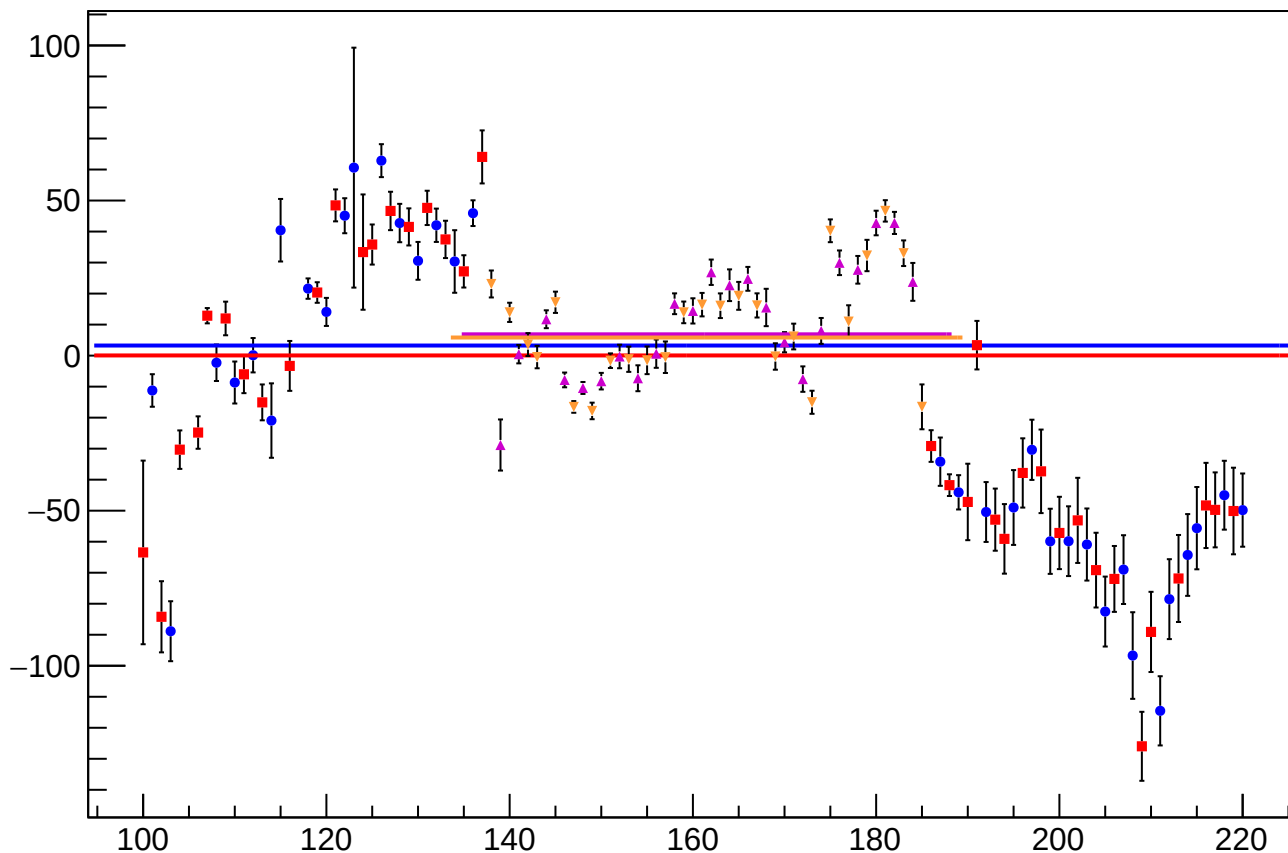
Right: 285.659 $\pm$ 1.113 χ^2 /NDF: 5018.2/34

In: 213.050 $\pm$ 0.845 χ^2 /NDF:4617.2/39

Out: 218.581 $\pm$ 0.803 χ^2 /NDF:9167.0/42

All: 215.958 $\pm$ 0.582 χ^2 /NDF: 13806.7/82

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.250 ± 1.217 $\chi^2/\text{NDF}: 1210.8/33$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.054 ± 1.053 $\chi^2/\text{NDF}: 1233.0/36$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

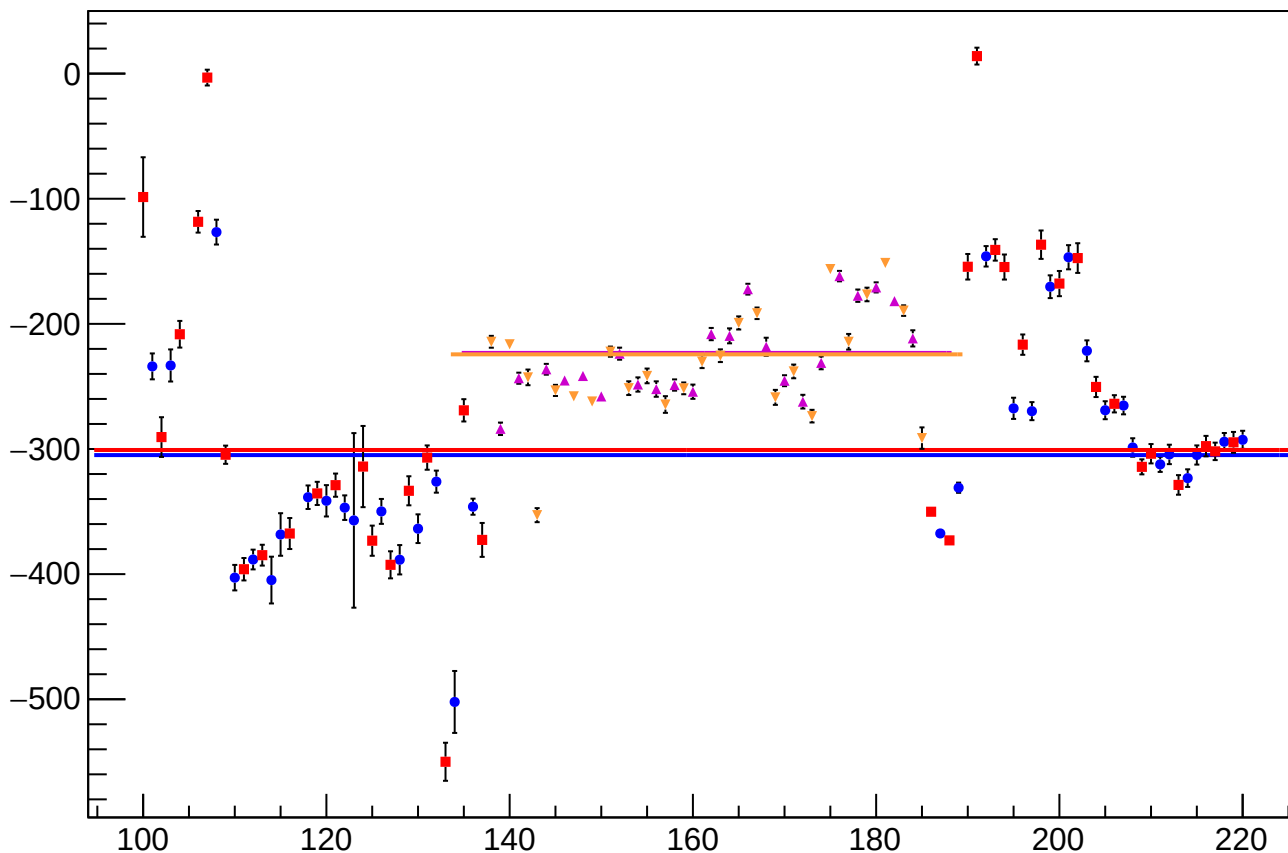
Right: 1.423 ± 0.796 $\chi^2/\text{NDF}: 2447.7/70$

In: 5.894 ± 0.630 $\chi^2/\text{NDF}: 1740.0/56$

Out: 4.019 ± 0.590 $\chi^2/\text{NDF}: 1905.9/61$

All: 4.896 ± 0.431 $\chi^2/\text{NDF}: 3650.6/118$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -304.874 ± 1.364 χ^2/NDF : 2262.5/33

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.791 ± 1.143 χ^2/NDF : 8678.3/36

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

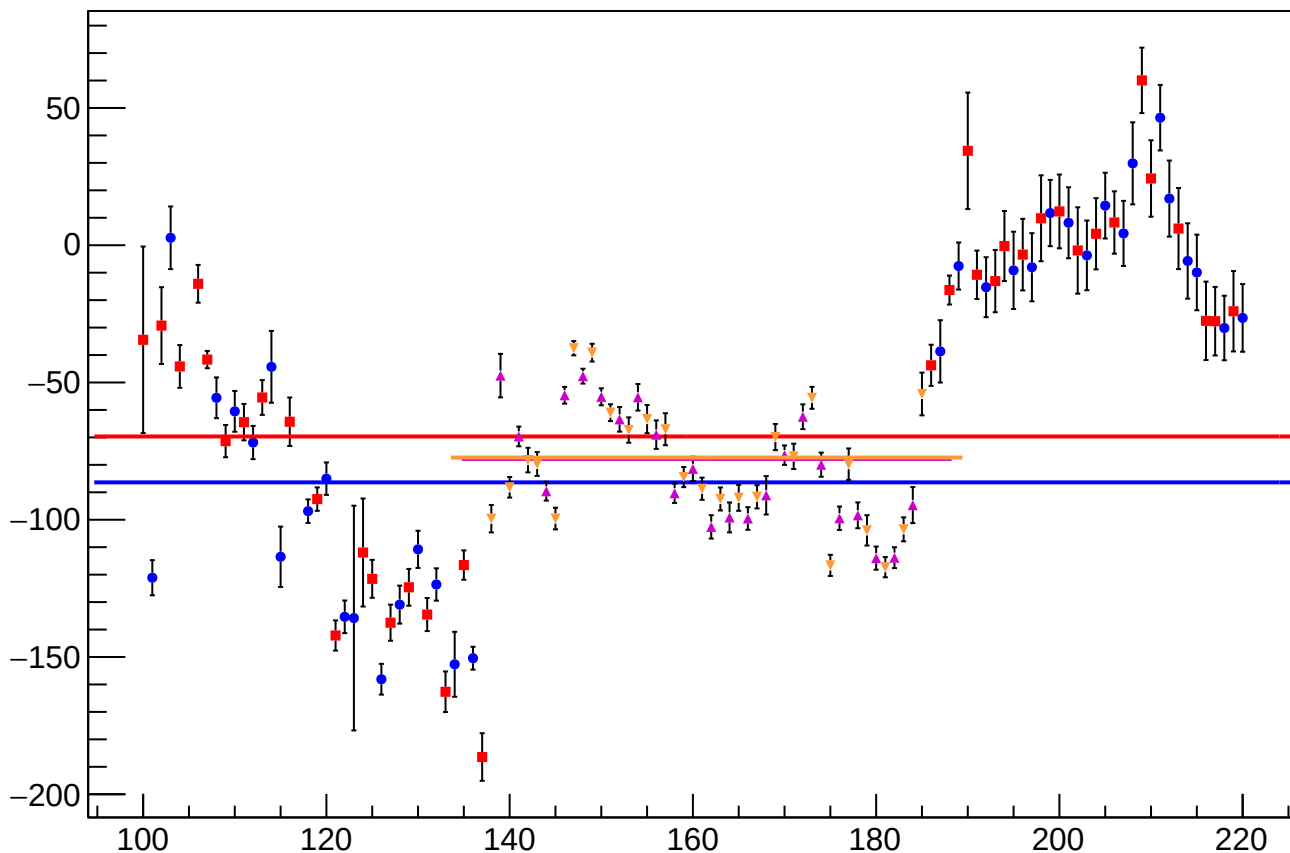
Right: -302.476 ± 0.876 χ^2/NDF : 10946.1/70

In: -250.611 ± 0.790 χ^2/NDF : 5912.6/56

Out: -255.811 ± 0.733 χ^2/NDF : 13411.2/61

All: -253.404 ± 0.538 χ^2/NDF : 19347.0/118

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.384 ± 1.406 $\chi^2/\text{NDF}: 1601.6/33$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -69.663 ± 1.255 $\chi^2/\text{NDF}: 1785.8/36$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

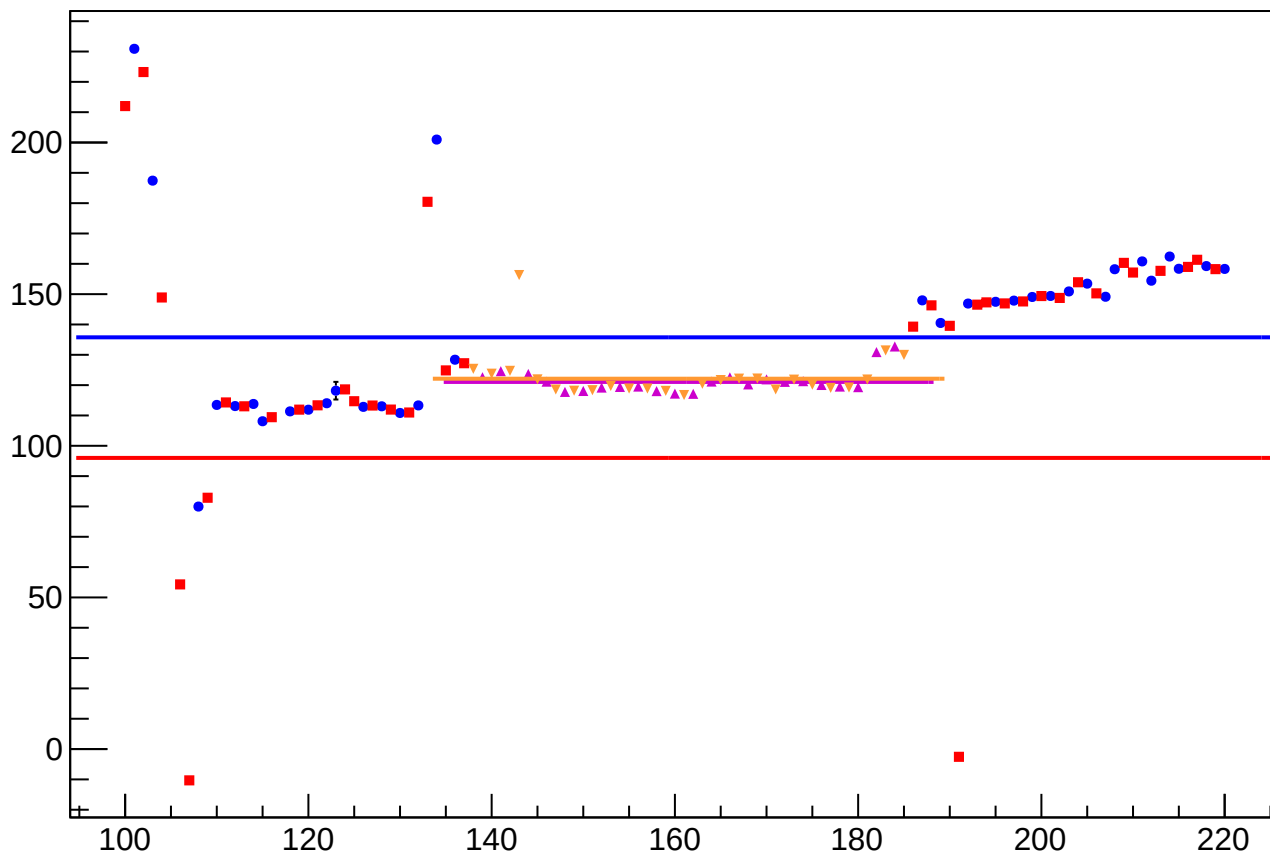
Right: -77.080 ± 0.937 $\chi^2/\text{NDF}: 3466.1/70$

In: -80.120 ± 0.727 $\chi^2/\text{NDF}: 2251.4/56$

Out: -75.021 ± 0.690 $\chi^2/\text{NDF}: 2658.2/61$

All: -77.440 ± 0.501 $\chi^2/\text{NDF}: 4935.5/118$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.764 $\pm$ 0.071 χ^2 /NDF: 213942.8/33

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 96.004 $\pm$ 0.061 χ^2 /NDF: 1180432.9/36

Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47

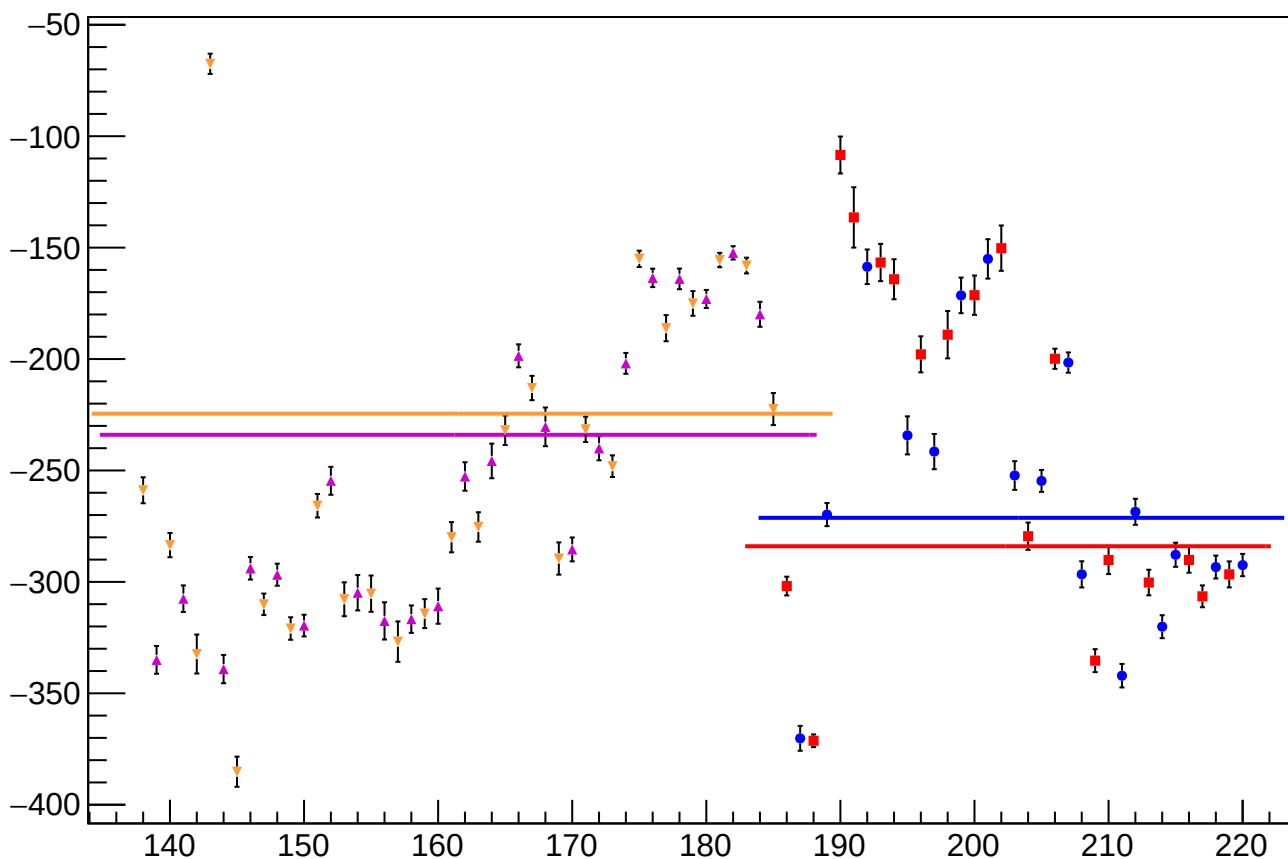
Right: 112.757 $\pm$ 0.046 χ^2 /NDF: 1573753.7/70

In: 124.533 $\pm$ 0.035 χ^2 /NDF:254269.1/56

Out: 114.417 $\pm$ 0.033 χ^2 /NDF:1340404.4/61

All: 119.232 $\pm$ 0.024 χ^2 /NDF: 1639148.6/118

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -271.246+/-1.413 χ^2/NDF : 1475.1/16

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -284.002+/-1.358 χ^2/NDF : 2944.1/17

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

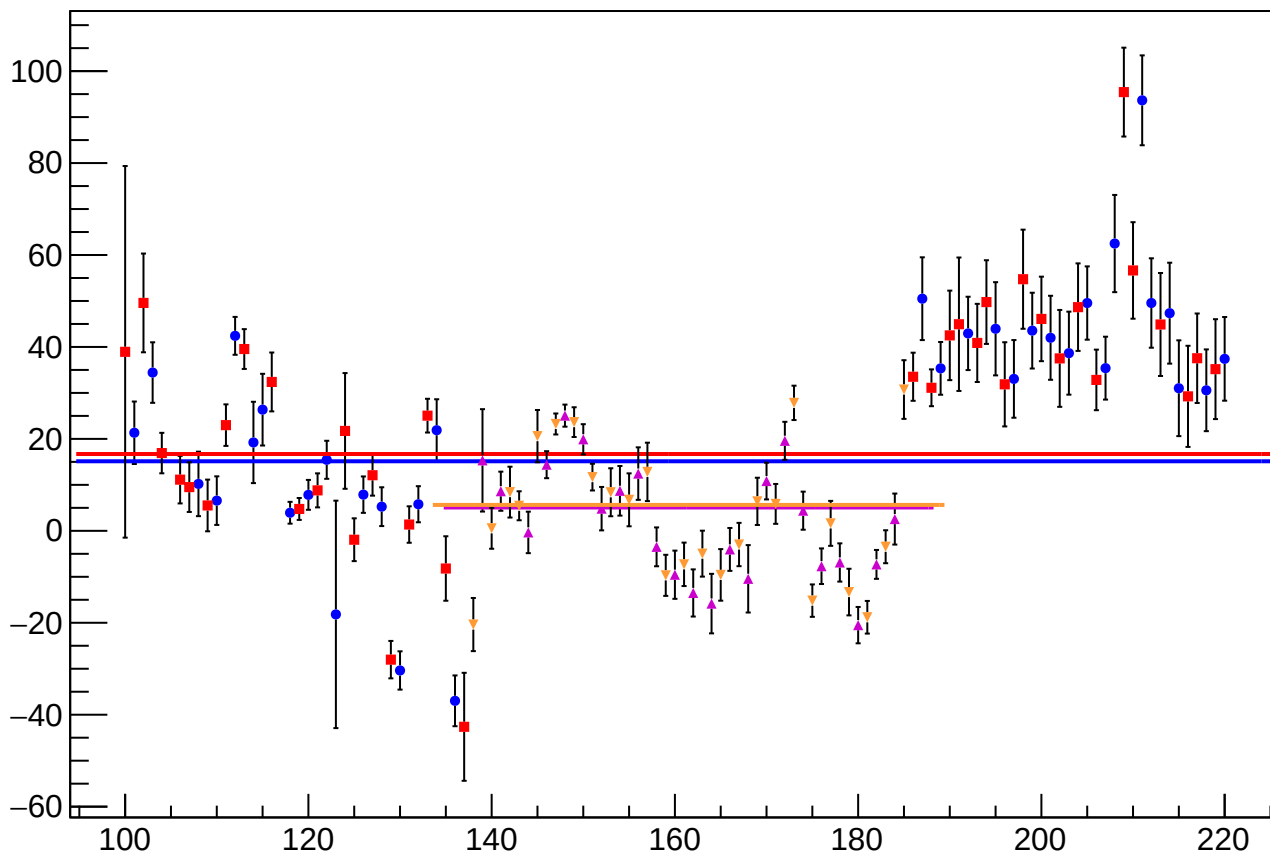
Right: -277.878+/-0.979 χ^2/NDF : 4461.6/34

In: -248.189+/-0.872 χ^2/NDF : 5444.1/39

Out: -247.539+/-0.845 χ^2/NDF : 8991.9/42

All: -247.853+/-0.607 χ^2/NDF : 14436.3/82

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.131 $\pm$ 0.976 χ^2 /NDF: 536.2/33

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.711 $\pm$ 0.937 χ^2 /NDF: 476.2/36

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

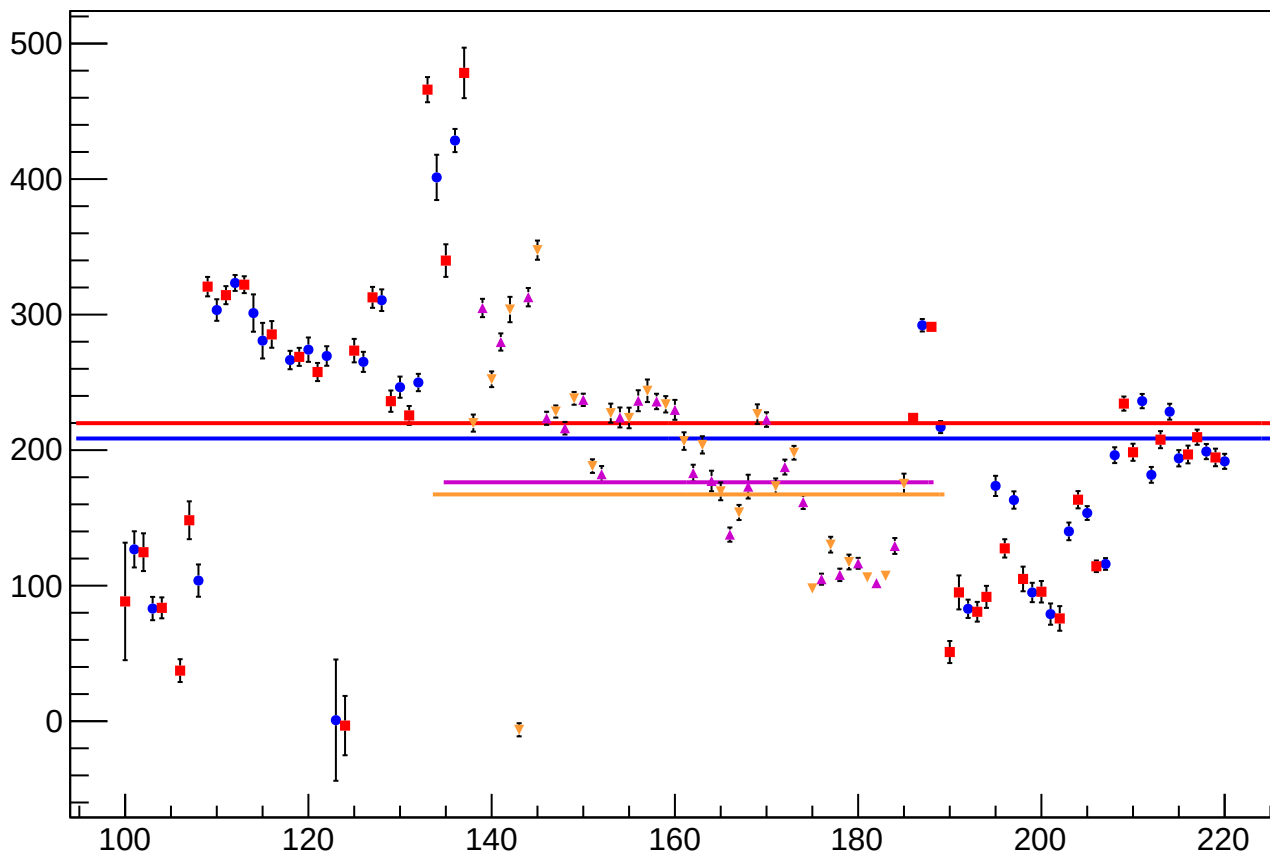
Right: 15.953 $\pm$ 0.676 χ^2 /NDF: 1013.7/70

In: 9.521 $\pm$ 0.649 χ^2 /NDF:835.1/56

Out: 10.494 $\pm$ 0.620 χ^2 /NDF:868.3/61

All: 10.029 $\pm$ 0.448 χ^2 /NDF: 1704.5/118

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.592 $\pm$ 1.149 χ^2 /NDF: 4274.0/33

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 219.889 $\pm$ 1.057 χ^2 /NDF: 6629.3/36

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

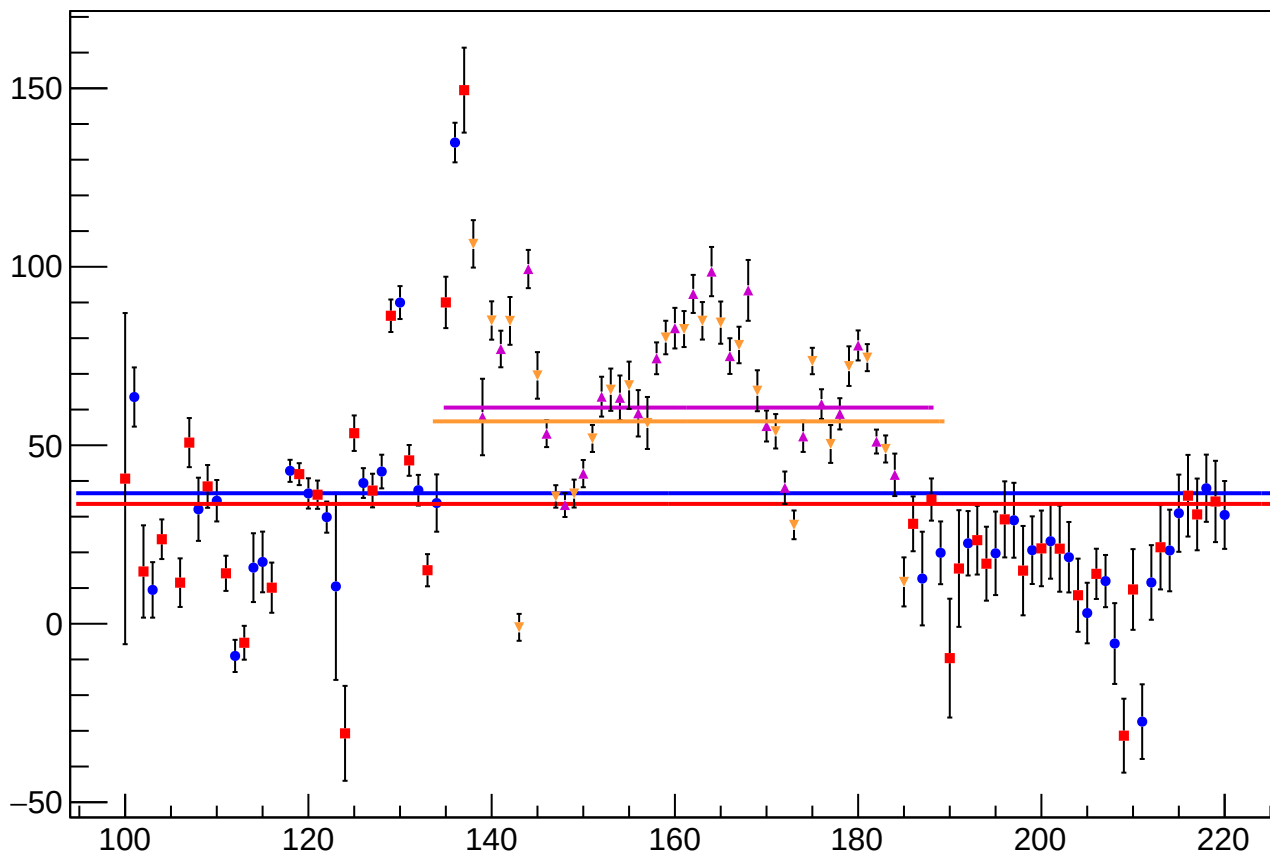
Right: 214.710 $\pm$ 0.778 χ^2 /NDF: 10955.7/70

In: 191.810 $\pm$ 0.797 χ^2 /NDF:7854.3/56

Out: 194.228 $\pm$ 0.756 χ^2 /NDF:12290.5/61

All: 193.082 $\pm$ 0.549 χ^2 /NDF: 20149.6/118

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.562 $\pm$ 1.126 χ^2/NDF : 699.3/33

Left Out: 56.695 $\pm$ 0.952 χ^2/NDF :690.4/24

Right Out: 33.572 $\pm$ 1.093 χ^2/NDF : 555.6/36

Left In: 60.555 $\pm$ 0.990 χ^2/NDF :335.6/22

Left: 58.548 $\pm$ 0.686 χ^2/NDF : 1034.0/47

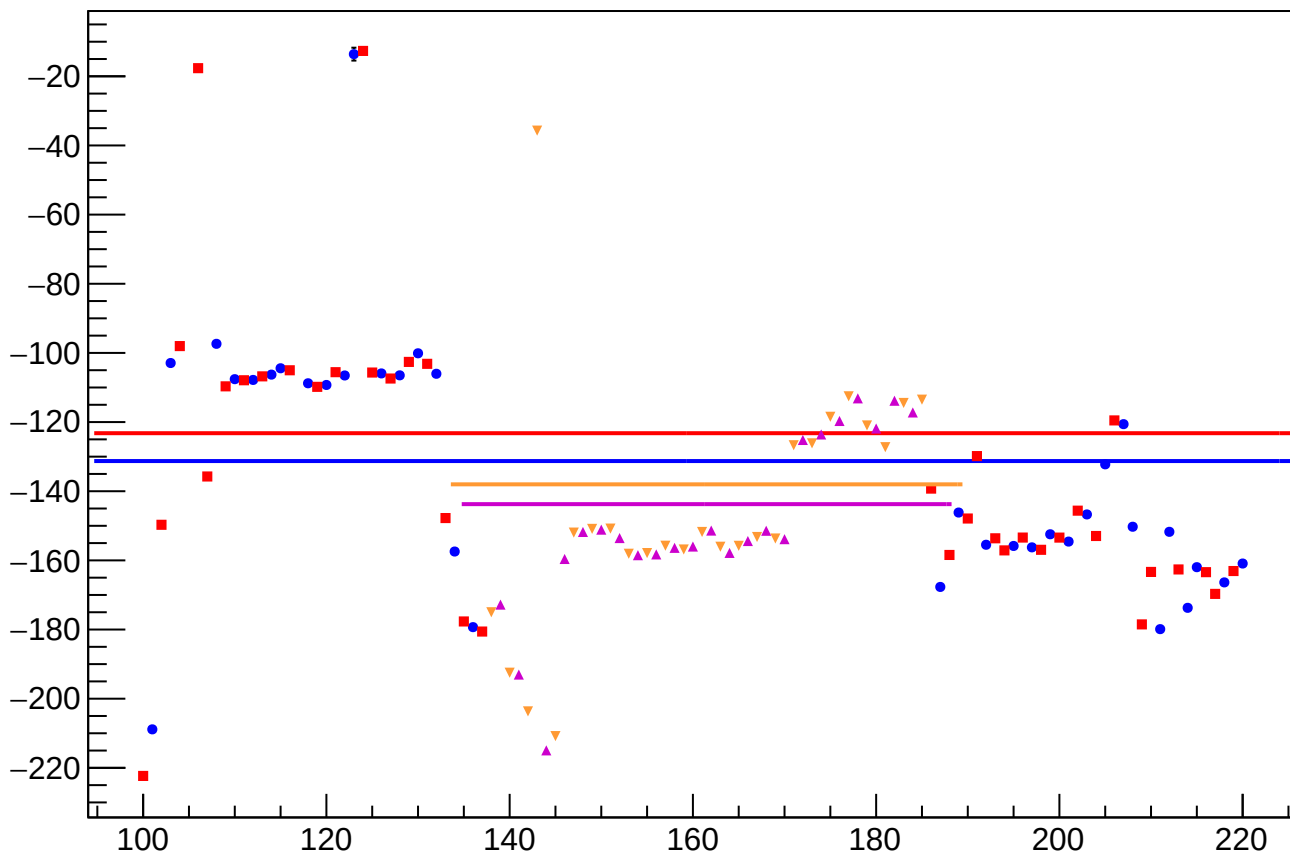
Right: 35.023 $\pm$ 0.784 χ^2/NDF : 1258.6/70

In: 50.092 $\pm$ 0.744 χ^2/NDF :1291.0/56

Out: 46.724 $\pm$ 0.718 χ^2/NDF :1500.6/61

All: 48.349 $\pm$ 0.516 χ^2/NDF : 2802.2/118

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.274 $\pm$ 0.060 χ^2 /NDF: 236453.0/33

Left Out: -138.008 $\pm$ 0.045 χ^2 /NDF: 565767.2/24

Right Out: -123.217 $\pm$ 0.057 χ^2 /NDF: 494161.9/36

Left In: -143.735 $\pm$ 0.046 χ^2 /NDF: 258408.3/22

Left: -140.811 $\pm$ 0.032 χ^2 /NDF: 832055.2/47

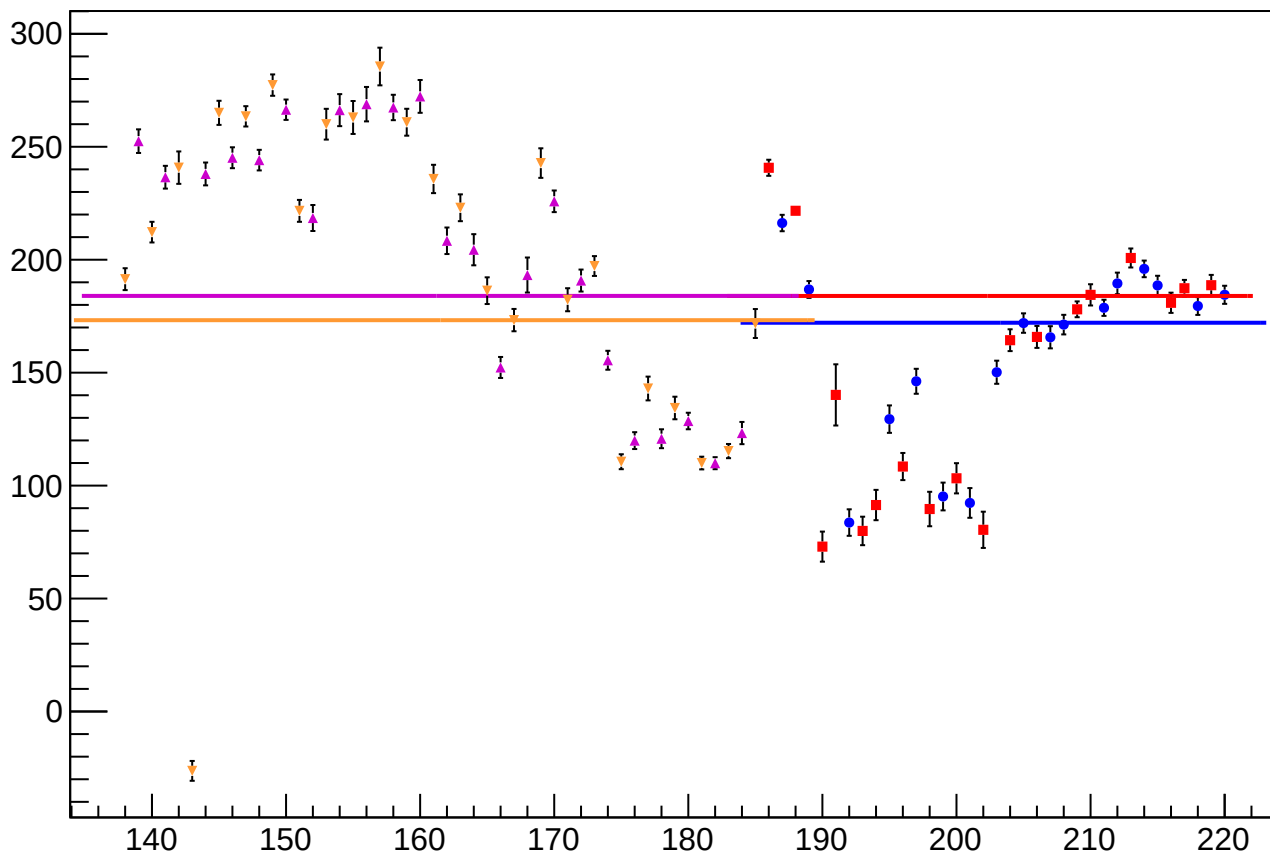
Right: -127.032 $\pm$ 0.041 χ^2 /NDF: 740074.1/70

In: -139.119 $\pm$ 0.037 χ^2 /NDF: 521927.0/56

Out: -132.310 $\pm$ 0.035 χ^2 /NDF: 1101315.7/61

All: -135.602 $\pm$ 0.025 χ^2 /NDF: 1641145.6/111

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 172.102 $\pm$ 1.084 χ^2 /NDF: 872.4/16

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24

Right Out: 183.962 $\pm$ 1.018 χ^2 /NDF: 2088.9/17

Left In: 183.984 $\pm$ 0.991 χ^2 /NDF:3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47

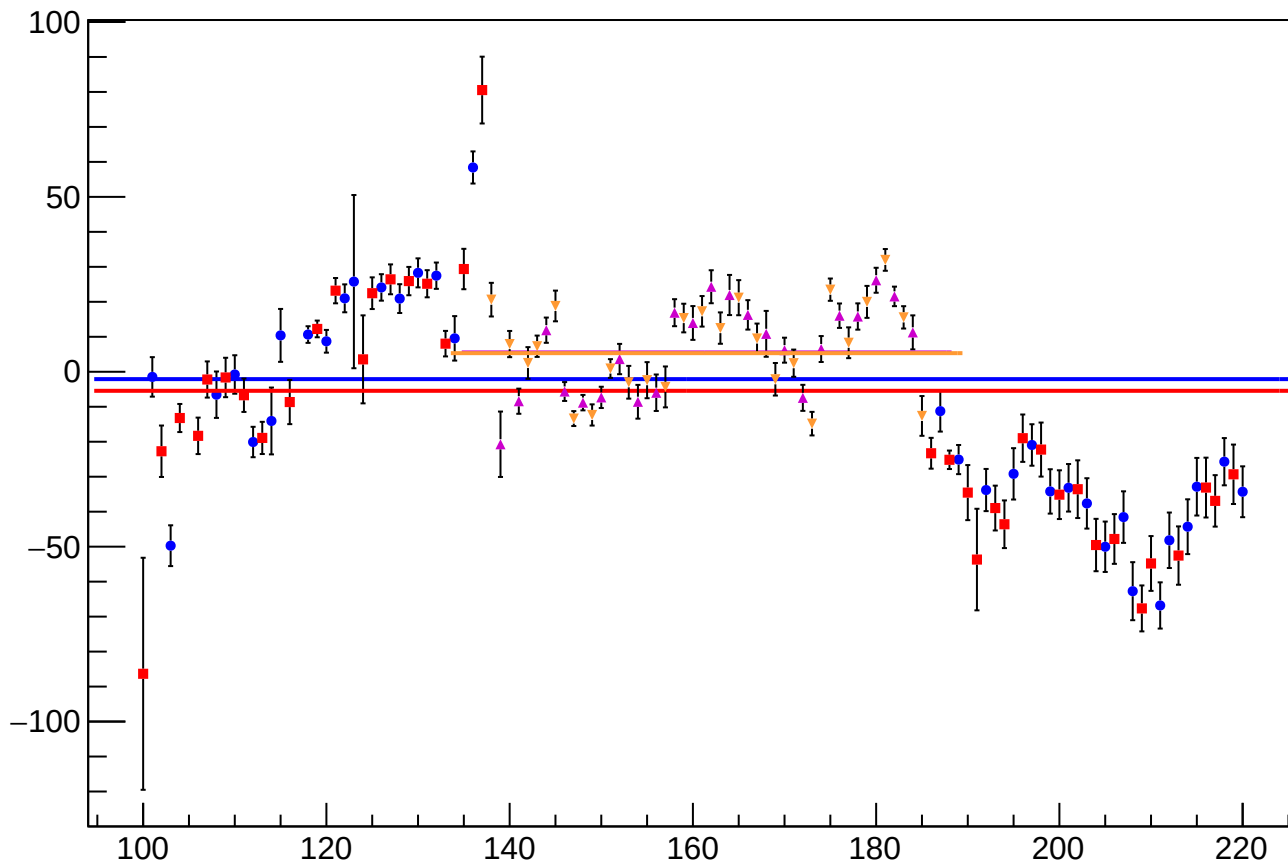
Right: 178.403 $\pm$ 0.742 χ^2 /NDF: 3024.9/34

In: 178.575 $\pm$ 0.731 χ^2 /NDF:4551.5/39

Out: 178.311 $\pm$ 0.701 χ^2 /NDF:7993.4/42

All: 178.437 $\pm$ 0.506 χ^2 /NDF: 12544.9/82

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.102 ± 0.893 χ^2/NDF : 1020.7/33

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.443 ± 0.851 χ^2/NDF : 958.4/36

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

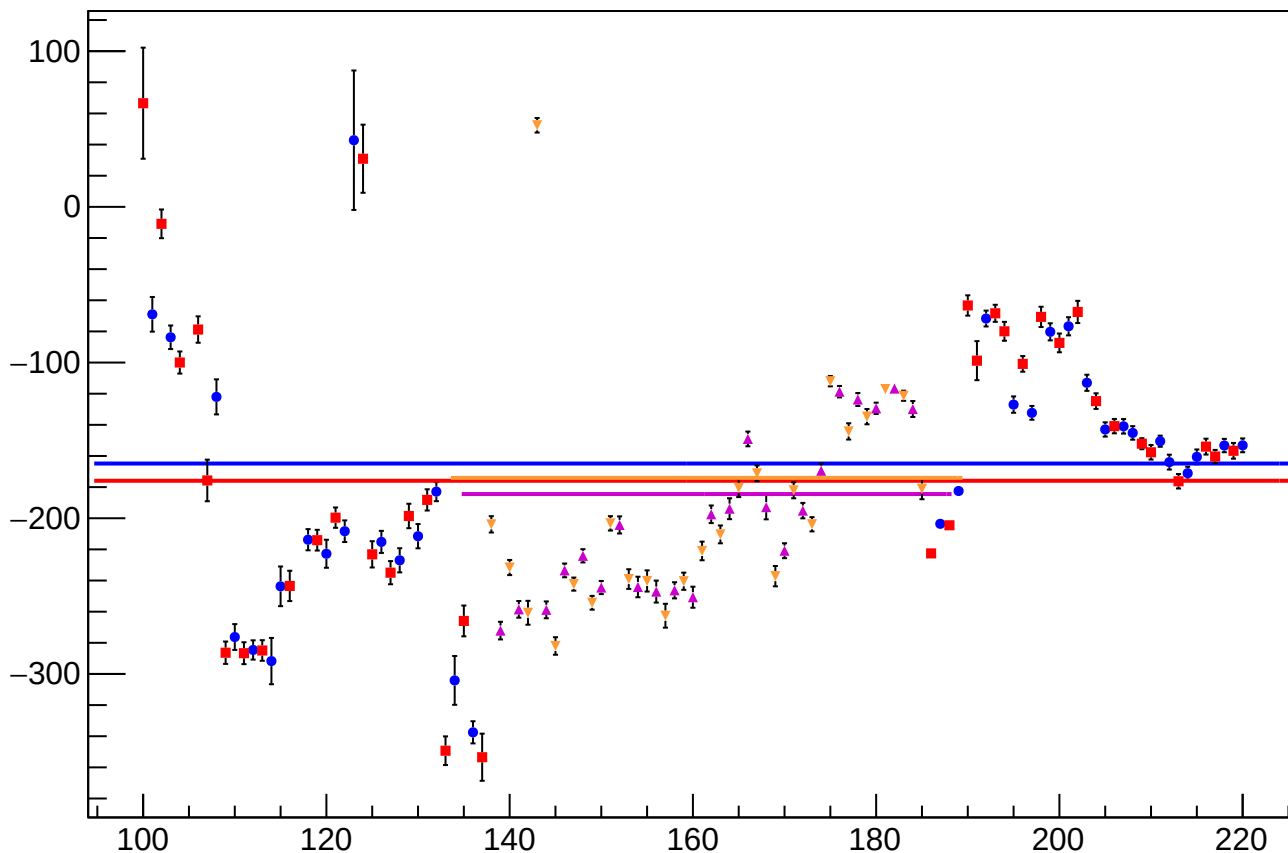
Right: -3.854 ± 0.616 χ^2/NDF : 1986.4/70

In: 2.221 ± 0.588 χ^2/NDF : 1318.3/56

Out: 0.633 ± 0.561 χ^2/NDF : 1394.3/61

All: 1.391 ± 0.406 χ^2/NDF : 2716.5/118

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -164.852 ± 0.929 χ^2/NDF : 3158.6/33

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -175.918 ± 0.836 χ^2/NDF : 5034.7/36

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

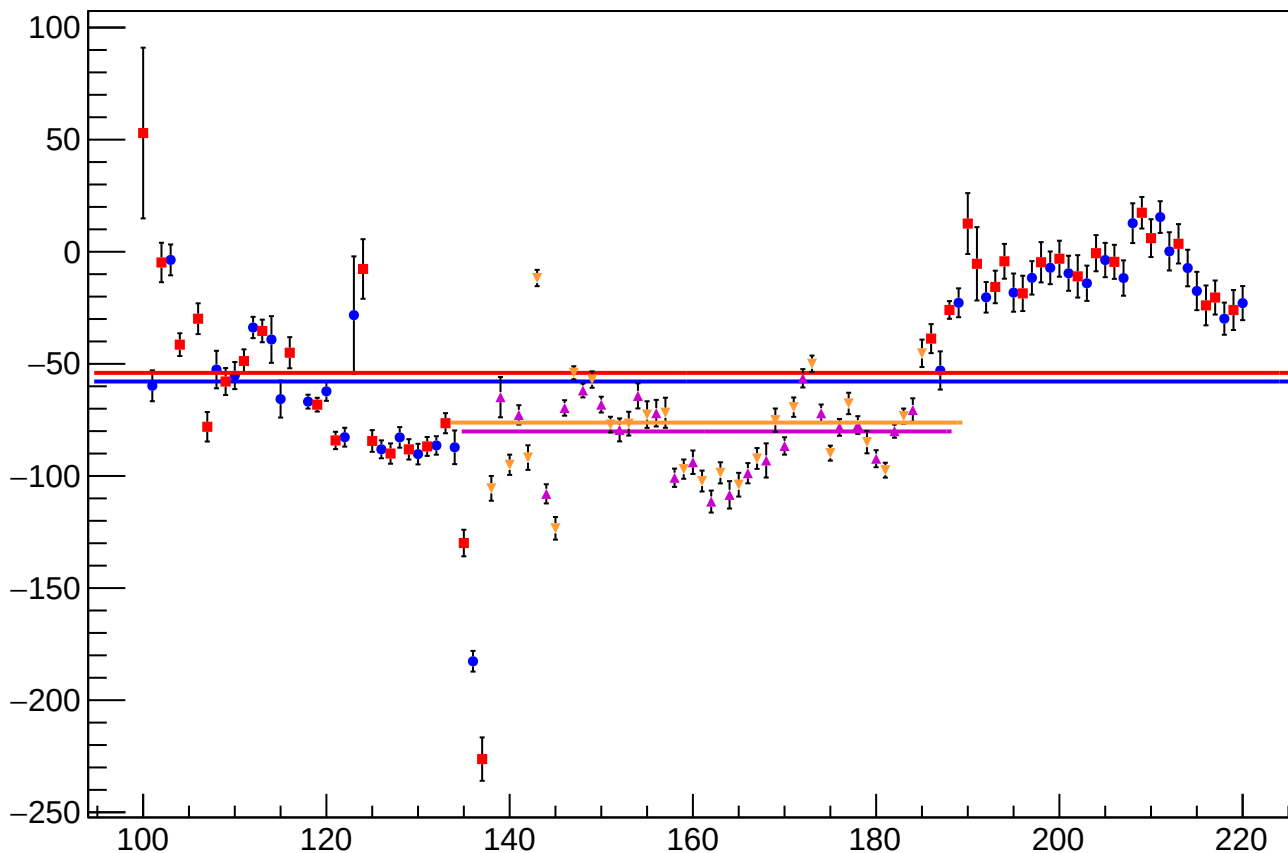
Right: -170.964 ± 0.622 χ^2/NDF : 8271.6/70

In: -174.026 ± 0.678 χ^2/NDF : 6418.5/56

Out: -175.127 ± 0.634 χ^2/NDF : 10480.0/61

All: -174.613 ± 0.463 χ^2/NDF : 16900.0/118

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.866 ± 1.032 $\chi^2/\text{NDF}: 1706.7/33$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -54.020 ± 1.003 $\chi^2/\text{NDF}: 1500.6/36$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

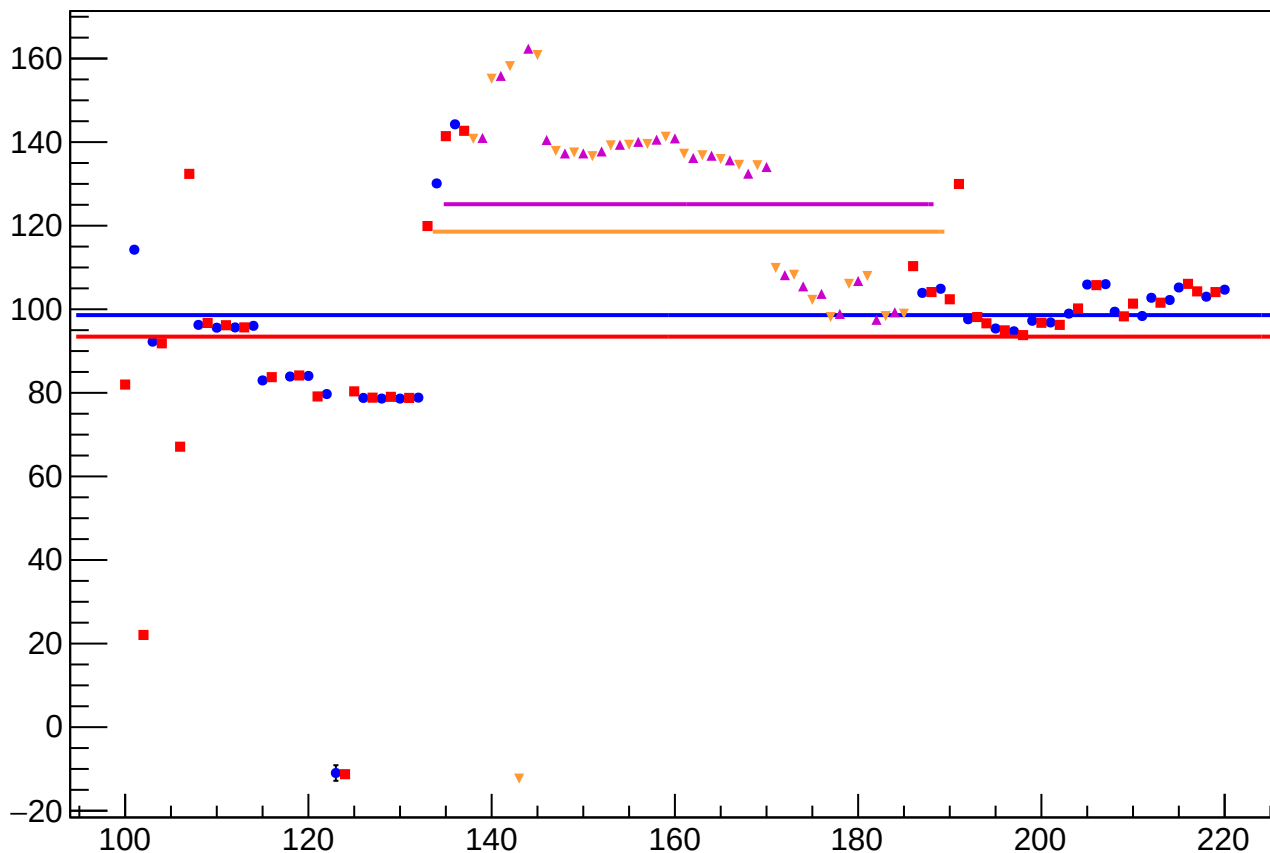
Right: -55.887 ± 0.719 $\chi^2/\text{NDF}: 3214.4/70$

In: -70.658 ± 0.674 $\chi^2/\text{NDF}: 2257.5/56$

Out: -66.822 ± 0.652 $\chi^2/\text{NDF}: 2583.9/61$

All: -68.676 ± 0.468 $\chi^2/\text{NDF}: 4858.1/118$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.602 $\pm$ 0.052 χ^2 /NDF: 96826.3/33

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 93.452 $\pm$ 0.049 χ^2 /NDF: 245951.5/36

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

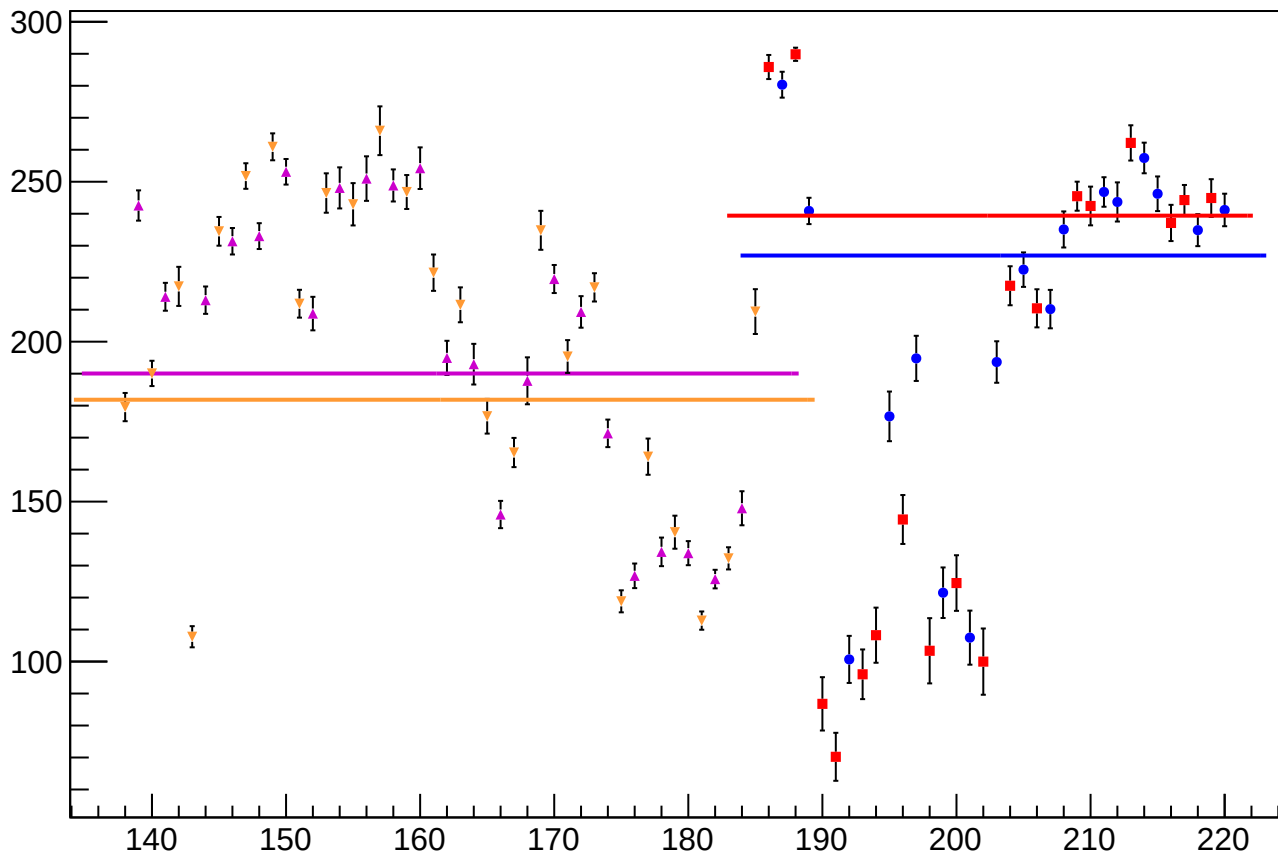
Right: 95.892 $\pm$ 0.036 χ^2 /NDF: 347912.4/70

In: 114.912 $\pm$ 0.032 χ^2 /NDF: 477004.6/56

Out: 108.491 $\pm$ 0.031 χ^2 /NDF: 1129019.7/61

All: 111.597 $\pm$ 0.023 χ^2 /NDF: 1626342.0/118

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 226.929 $\pm$ 1.345 χ^2/NDF : 1047.0/16

Left Out: 181.850 $\pm$ 0.913 χ^2/NDF : 3303.4/24

Right Out: 239.396 $\pm$ 1.209 χ^2/NDF : 2909.5/17

Left In: 190.048 $\pm$ 0.953 χ^2/NDF : 2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2/NDF : 5780.3/47

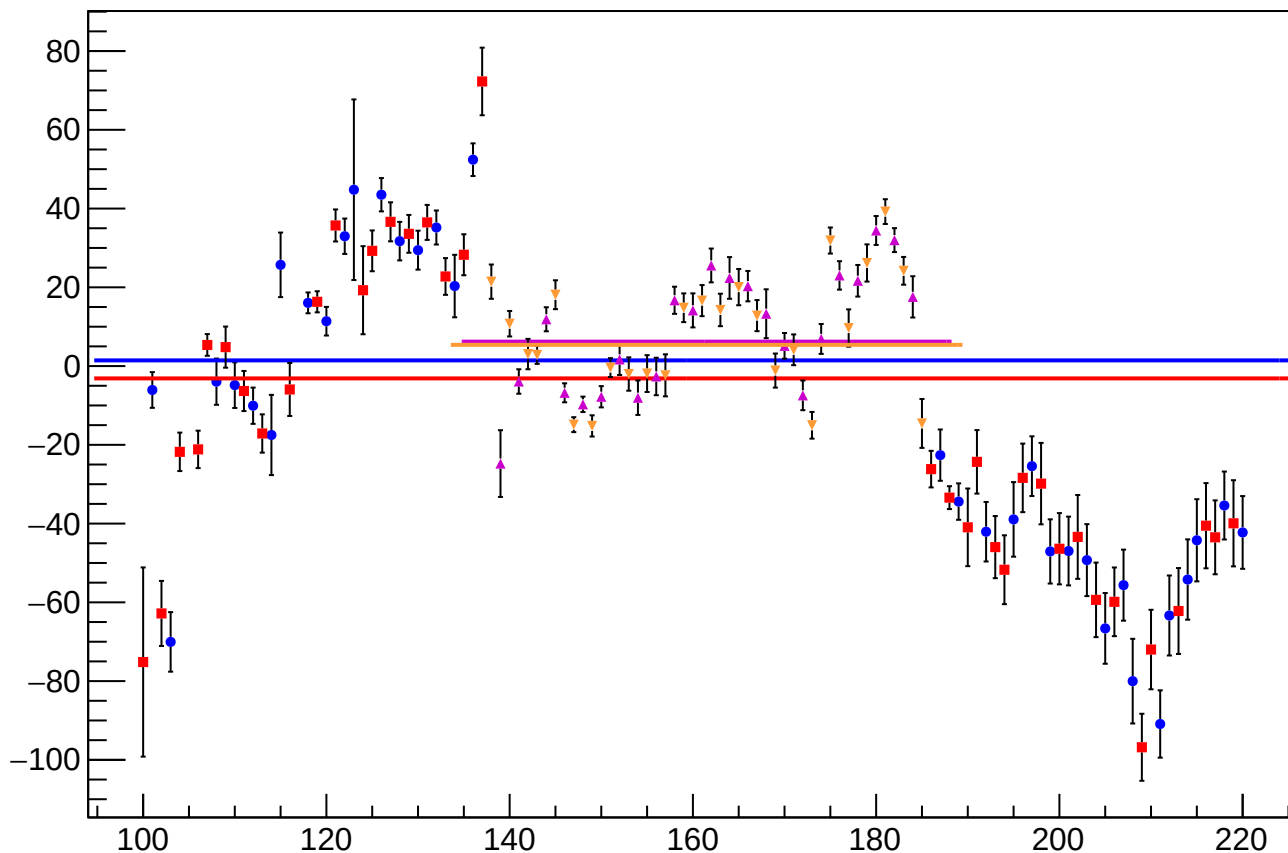
Right: 233.827 $\pm$ 0.899 χ^2/NDF : 4004.0/34

In: 202.372 $\pm$ 0.778 χ^2/NDF : 3986.0/39

Out: 202.769 $\pm$ 0.729 χ^2/NDF : 7655.8/42

All: 202.583 $\pm$ 0.532 χ^2/NDF : 11642.0/82

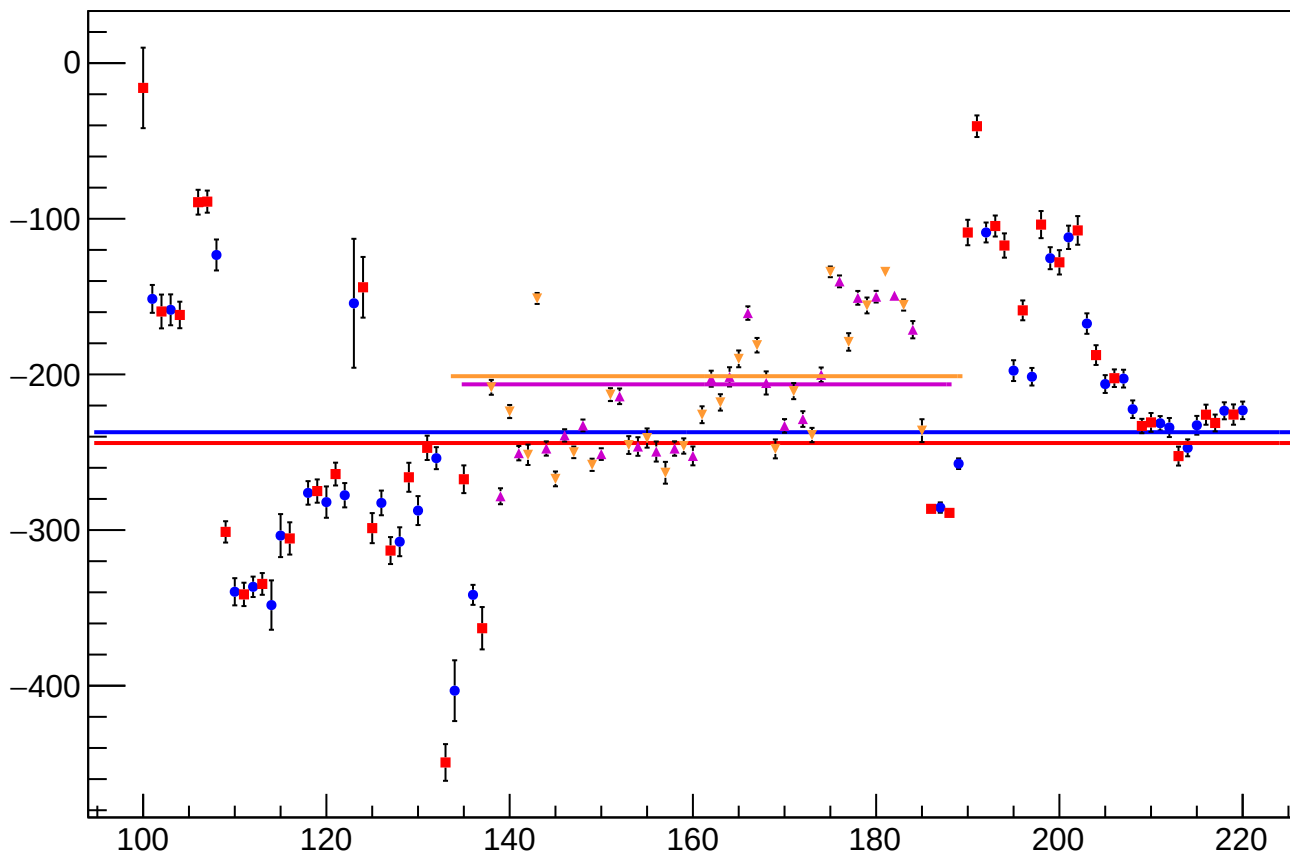
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47
 Right: -1.060 ± 0.676 χ^2/NDF : 2466.7/70
 In: 4.557 ± 0.591 χ^2/NDF : 1649.1/56
 Out: 2.309 ± 0.550 χ^2/NDF : 1810.5/61
 All: 3.351 ± 0.403 χ^2/NDF : 3467.3/118

Right In: 1.445 ± 1.005 χ^2/NDF : 1226.9/33
 Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24
 Right Out: -3.131 ± 0.914 χ^2/NDF : 1228.4/36
 Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -237.126+/-1.107 χ^2/NDF : 2720.7/33

Left Out: -201.144+/-0.918 χ^2/NDF : 2488.8/24

Right Out: -244.081+/-0.955 χ^2/NDF : 5859.9/36

Left In: -206.379+/-0.950 χ^2/NDF : 2111.6/22

Left: -203.672+/-0.660 χ^2/NDF : 4616.1/47

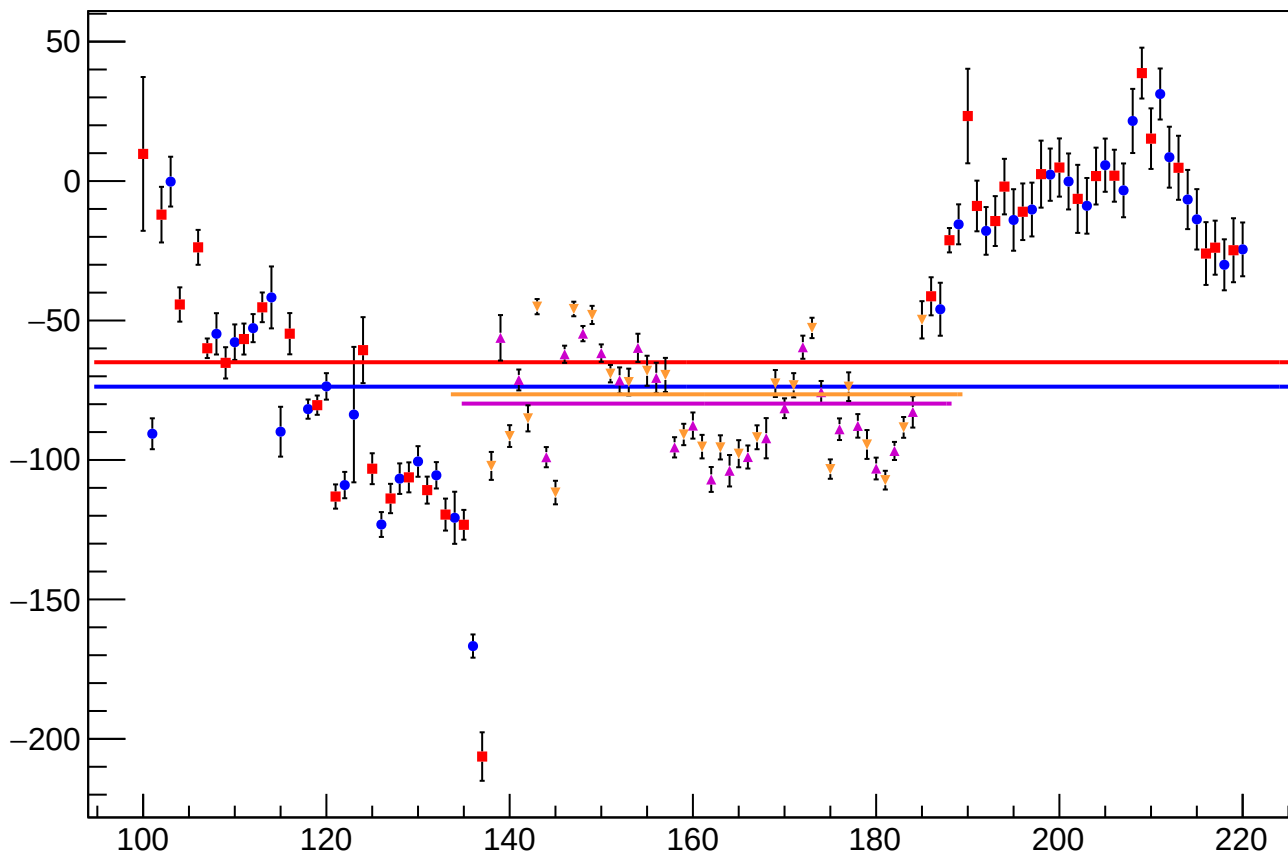
Right: -241.114+/-0.723 χ^2/NDF : 8603.2/70

In: -219.413+/-0.721 χ^2/NDF : 5276.7/56

Out: -221.765+/-0.662 χ^2/NDF : 9399.7/61

All: -220.690+/-0.487 χ^2/NDF : 14682.2/118

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.715 ± 1.164 $\chi^2/\text{NDF}: 1783.1/33$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -64.957 ± 1.084 $\chi^2/\text{NDF}: 1744.0/36$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

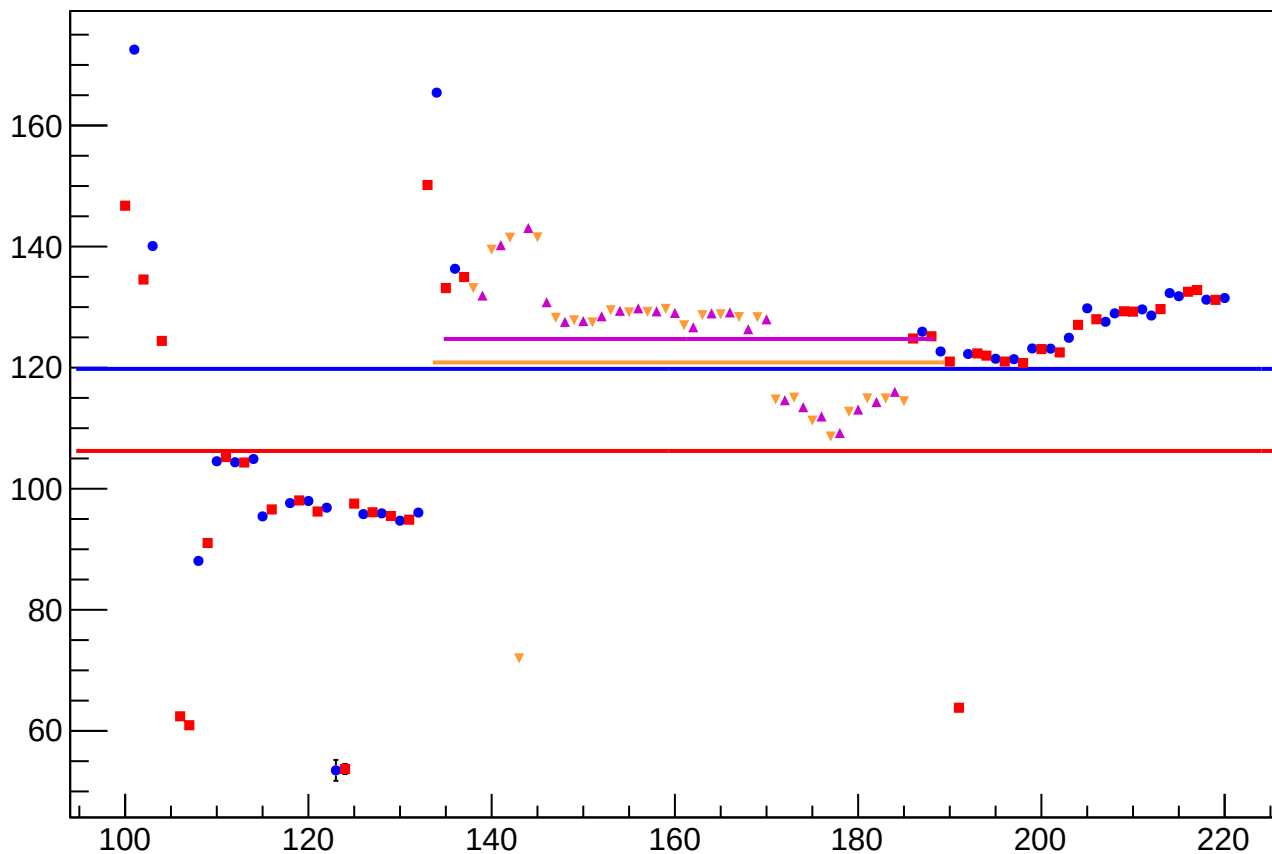
Right: -69.025 ± 0.793 $\chi^2/\text{NDF}: 3557.4/70$

In: -77.711 ± 0.681 $\chi^2/\text{NDF}: 2213.3/56$

Out: -72.425 ± 0.642 $\chi^2/\text{NDF}: 2598.4/61$

All: -74.913 ± 0.467 $\chi^2/\text{NDF}: 4843.7/118$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.797 ± 0.060 χ^2/NDF : 112783.6/33

Left Out: 120.855 ± 0.038 χ^2/NDF : 182759.1/24

Right Out: 106.238 ± 0.053 χ^2/NDF : 255320.8/36

Left In: 124.738 ± 0.039 χ^2/NDF : 51298.3/22

Left: 122.737 ± 0.027 χ^2/NDF : 239101.1/47

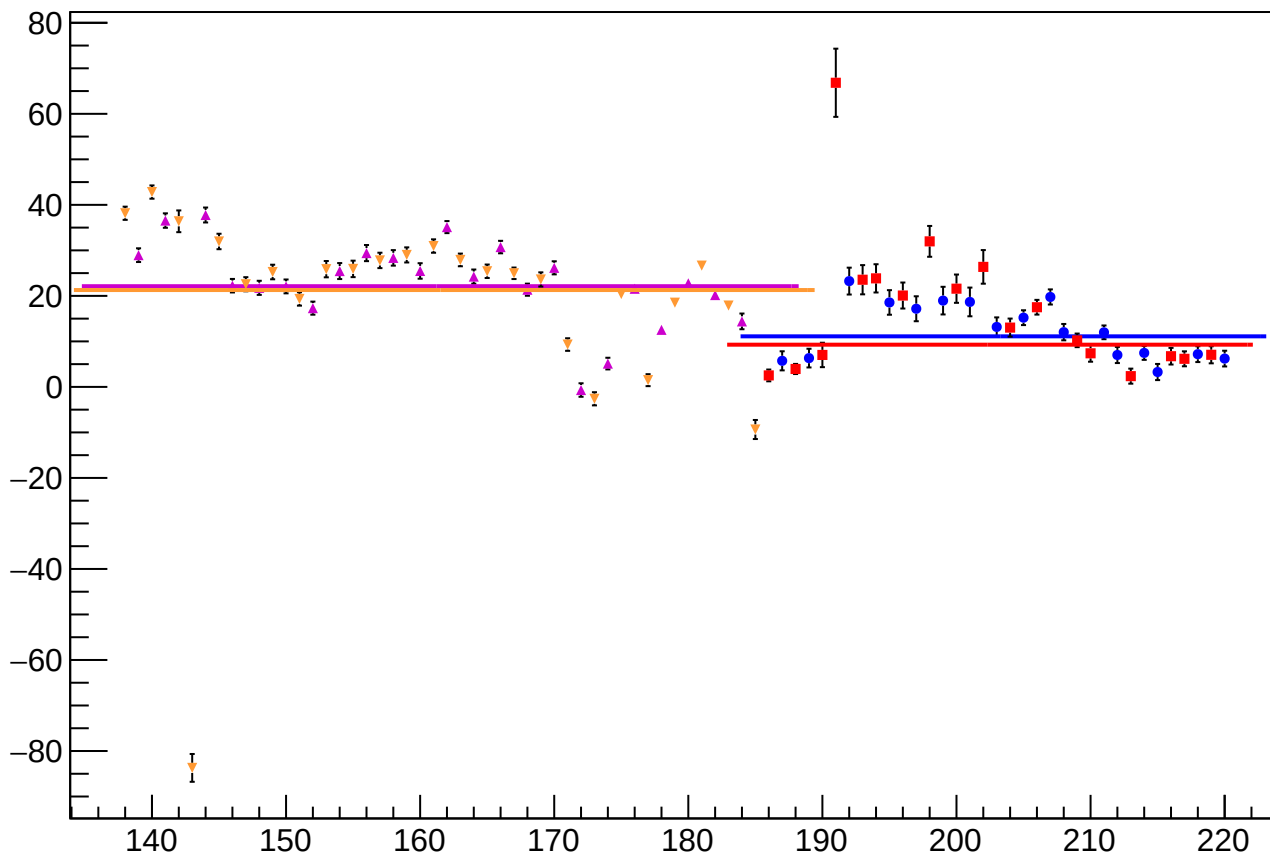
Right: 112.236 ± 0.040 χ^2/NDF : 396554.0/70

In: 123.258 ± 0.033 χ^2/NDF : 168828.0/56

Out: 115.940 ± 0.031 χ^2/NDF : 487692.6/61

All: 119.387 ± 0.023 χ^2/NDF : 682771.4/118

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.109 $\pm$ 0.471 χ^2 /NDF: 132.4/16

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.276 $\pm$ 0.454 χ^2 /NDF: 303.3/17

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

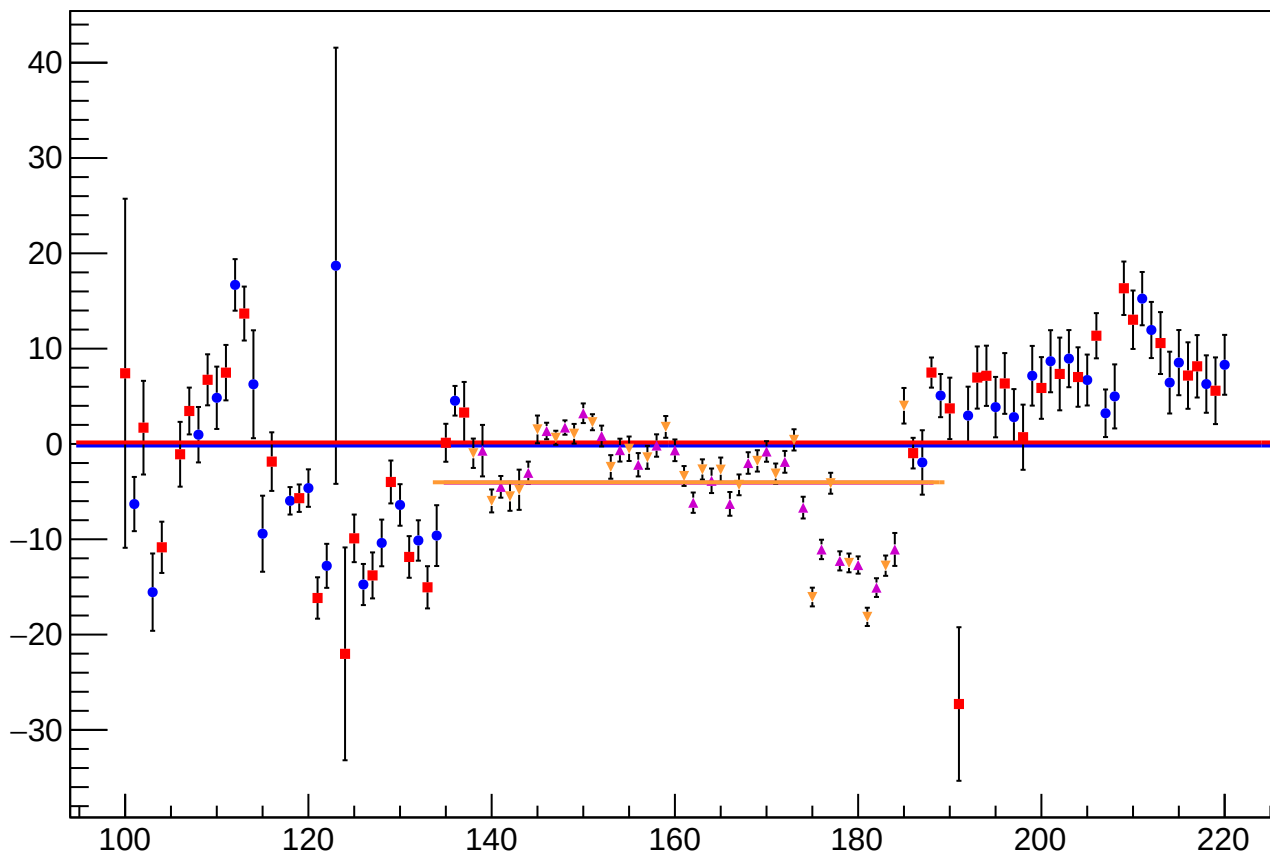
Right: 10.159 $\pm$ 0.327 χ^2 /NDF: 443.5/34

In: 19.168 $\pm$ 0.244 χ^2 /NDF:1432.6/39

Out: 17.936 $\pm$ 0.240 χ^2 /NDF:3407.3/42

All: 18.541 $\pm$ 0.171 χ^2 /NDF: 4852.8/82

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.162 ± 0.455 χ^2/NDF : 342.3/33

Left Out: -4.022 ± 0.223 χ^2/NDF : 734.1/24

Right Out: 0.157 ± 0.437 χ^2/NDF : 418.1/36

Left In: -4.059 ± 0.228 χ^2/NDF : 577.2/22

Left: -4.040 ± 0.159 χ^2/NDF : 1311.4/47

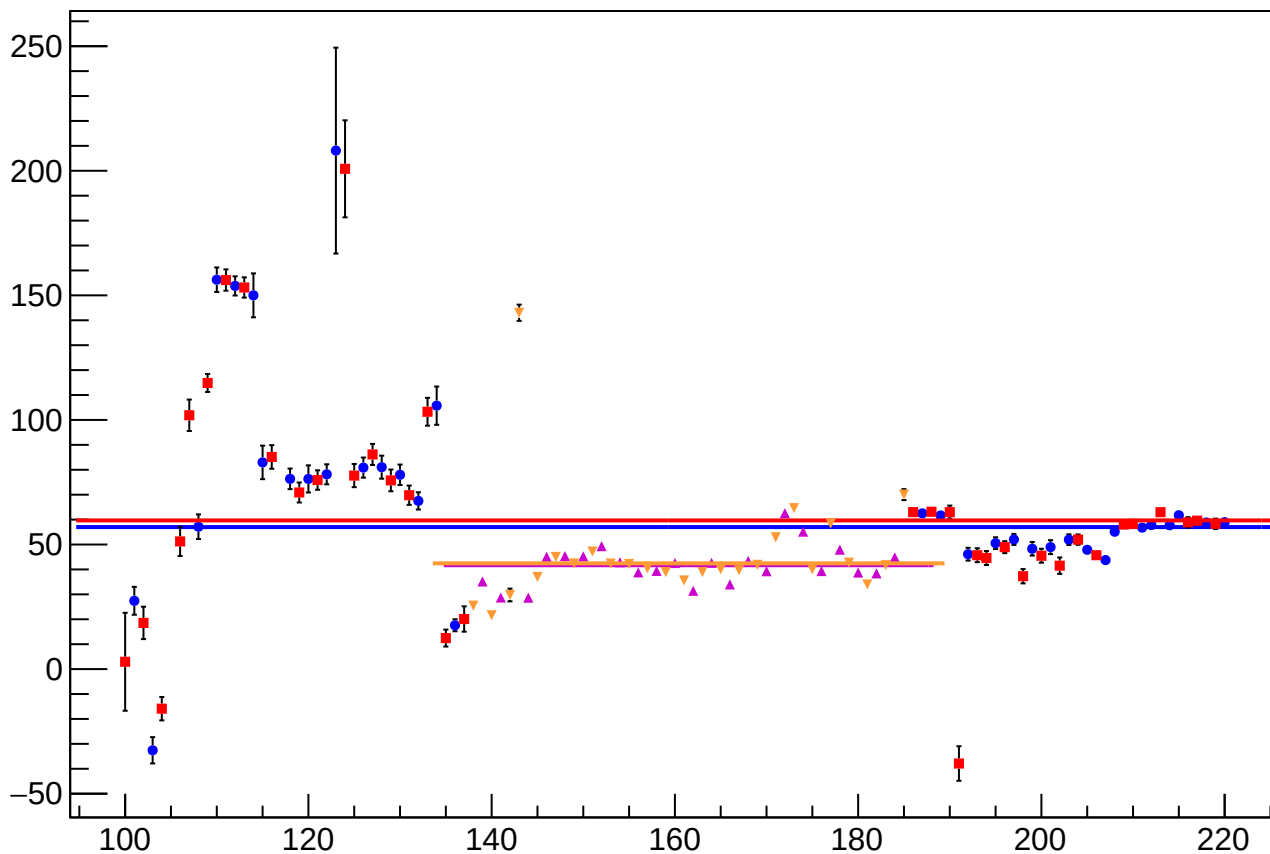
Right: 0.004 ± 0.315 χ^2/NDF : 760.7/70

In: -3.278 ± 0.204 χ^2/NDF : 978.1/56

Out: -3.159 ± 0.199 χ^2/NDF : 1224.7/61

All: -3.217 ± 0.142 χ^2/NDF : 2202.9/118

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 57.001 $\pm$ 0.428 χ^2 /NDF: 2144.6/33

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF: 2016.0/24

Right Out: 59.675 $\pm$ 0.395 χ^2 /NDF: 2633.4/36

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF: 630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

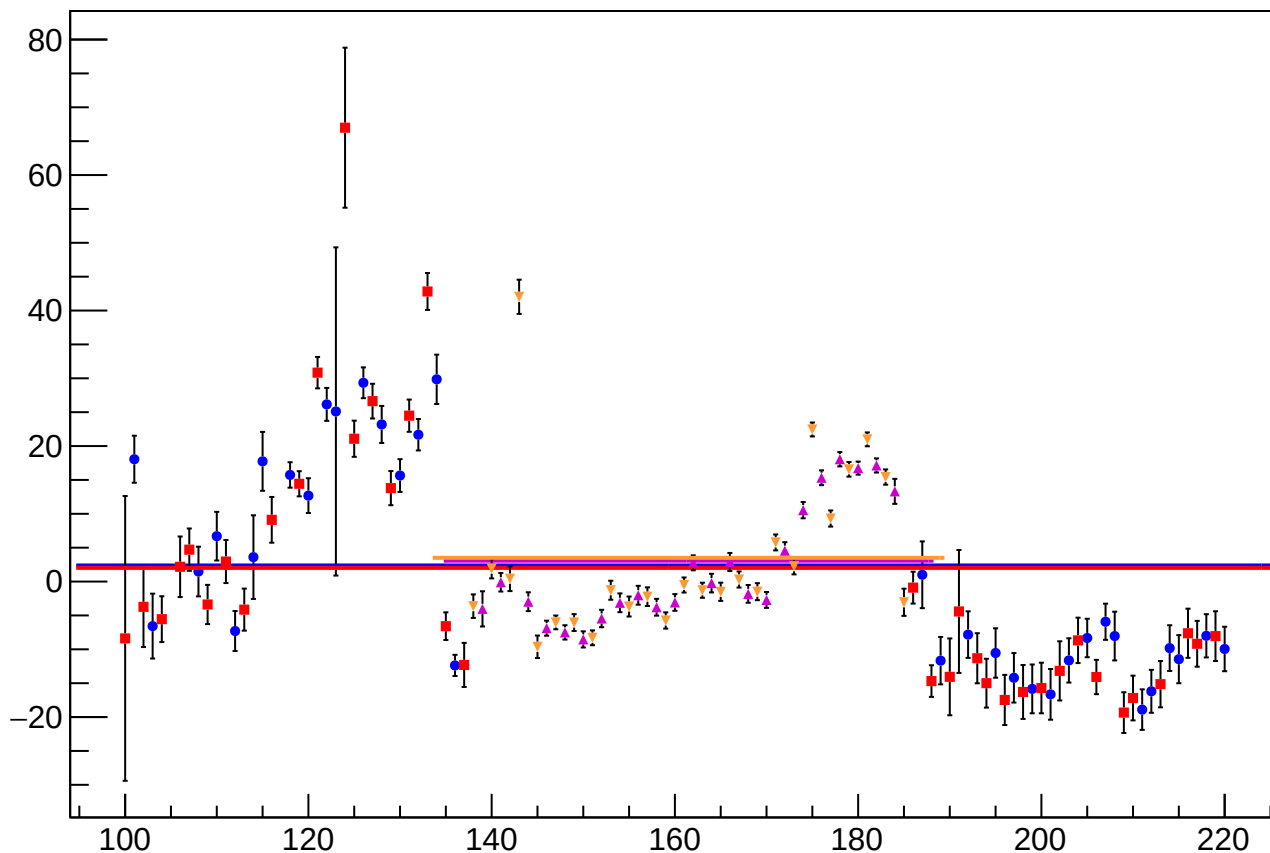
Right: 58.443 $\pm$ 0.290 χ^2 /NDF: 4799.1/70

In: 46.384 $\pm$ 0.237 χ^2 /NDF: 3663.8/56

Out: 48.261 $\pm$ 0.230 χ^2 /NDF: 5908.0/61

All: 47.351 $\pm$ 0.165 χ^2 /NDF: 9604.3/118

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.375 ± 0.516 χ^2/NDF : 954.4/33

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 2.020 ± 0.510 χ^2/NDF : 1130.5/36

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

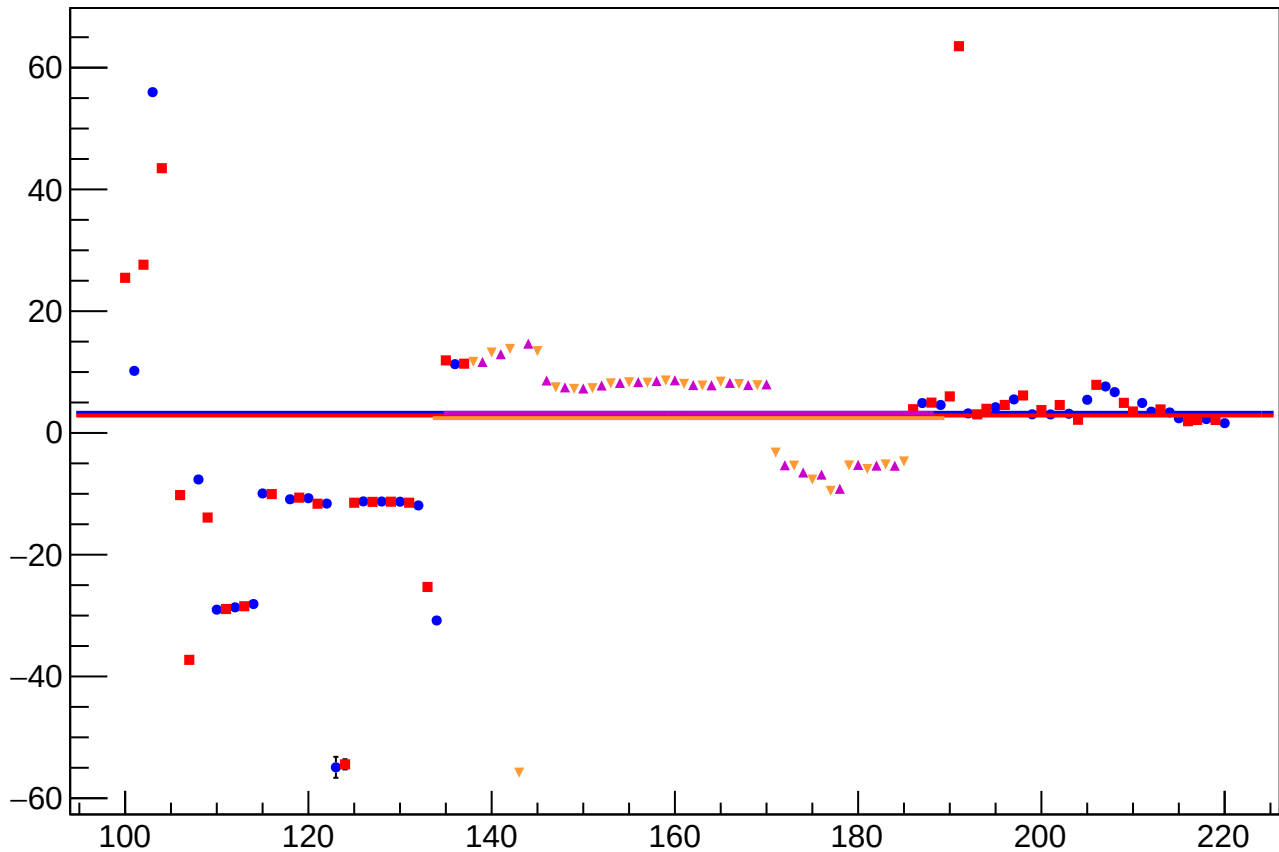
Right: 2.195 ± 0.363 χ^2/NDF : 2085.1/70

In: 2.941 ± 0.230 χ^2/NDF : 2221.6/56

Out: 3.213 ± 0.226 χ^2/NDF : 2828.6/61

All: 3.079 ± 0.161 χ^2/NDF : 5050.9/118

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.305 $\pm$ 0.024 χ^2 /NDF: 362530.1/33

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.865 $\pm$ 0.024 χ^2 /NDF: 434578.6/36

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

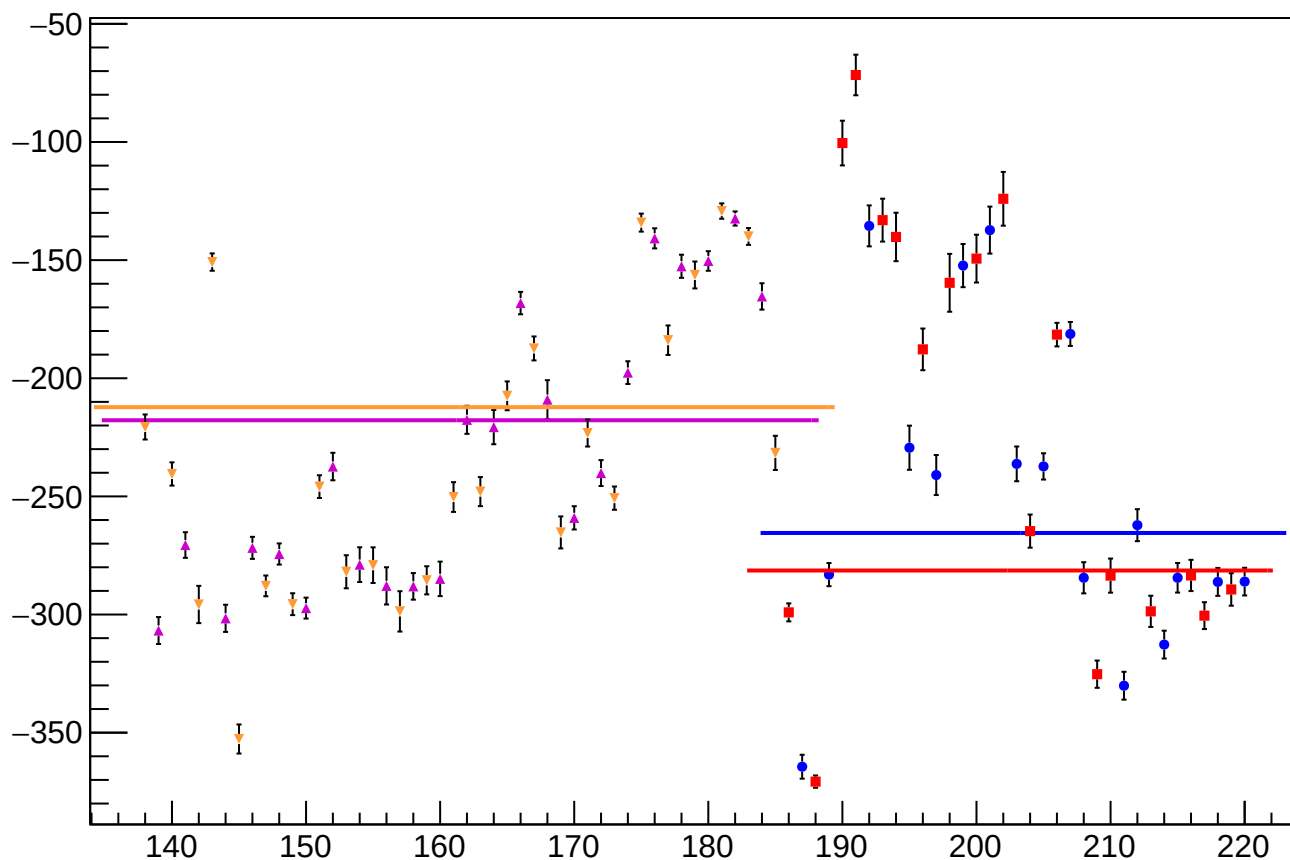
Right: 3.083 $\pm$ 0.017 χ^2 /NDF: 797272.4/70

In: 3.295 $\pm$ 0.011 χ^2 /NDF: 766854.0/56

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051228.6/61

All: 2.898 $\pm$ 0.007 χ^2 /NDF: 1820912.4/118

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -265.484 $\pm$ 1.549 χ^2 /NDF: 1507.0/16

Left Out: -212.231 $\pm$ 1.029 χ^2 /NDF:3875.4/24

Right Out: -281.366 $\pm$ 1.405 χ^2 /NDF: 3666.4/17

Left In: -217.779 $\pm$ 1.067 χ^2 /NDF:3448.9/22

Left: -214.906 $\pm$ 0.741 χ^2 /NDF: 7338.3/47

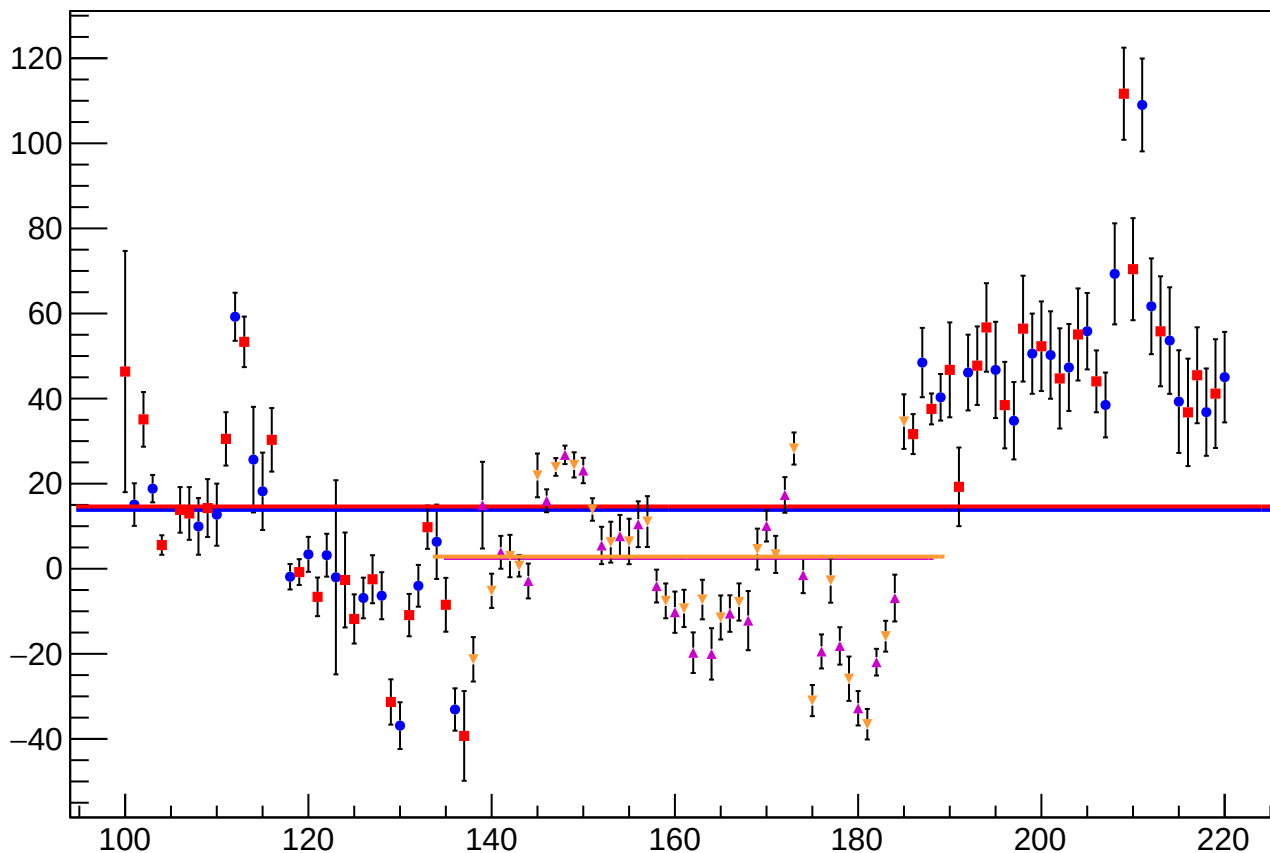
Right: -274.196 $\pm$ 1.041 χ^2 /NDF: 5231.1/34

In: -233.131 $\pm$ 0.879 χ^2 /NDF:5599.5/39

Out: -236.378 $\pm$ 0.830 χ^2 /NDF:9117.2/42

All: -234.846 $\pm$ 0.603 χ^2 /NDF: 14723.9/82

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.839+/-1.091 χ^2/NDF : 610.8/33

Left Out: 2.848+/-0.775 χ^2/NDF : 582.1/24

Right Out: 14.631+/-0.996 χ^2/NDF : 585.9/36

Left In: 2.540+/-0.822 χ^2/NDF : 473.6/22

Left: 2.703+/-0.564 χ^2/NDF : 1055.8/47

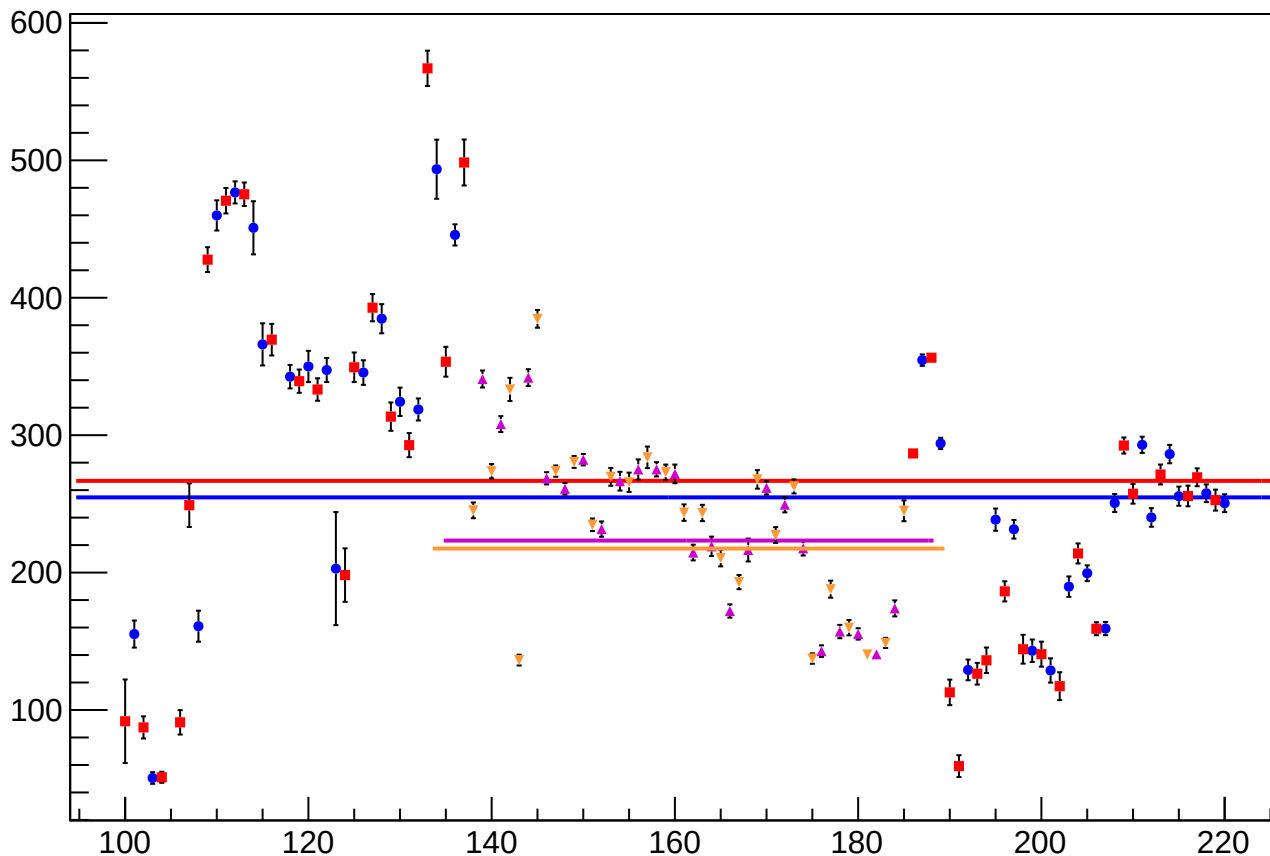
Right: 14.271+/-0.736 χ^2/NDF : 1197.1/70

In: 6.634+/-0.657 χ^2/NDF : 1152.9/56

Out: 7.290+/-0.611 χ^2/NDF : 1255.3/61

All: 6.986+/-0.448 χ^2/NDF : 2408.7/118

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.728 $\pm$ 1.231 χ^2 /NDF: 7141.4/33

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 266.753 $\pm$ 1.079 χ^2 /NDF: 11058.0/36

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF:3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

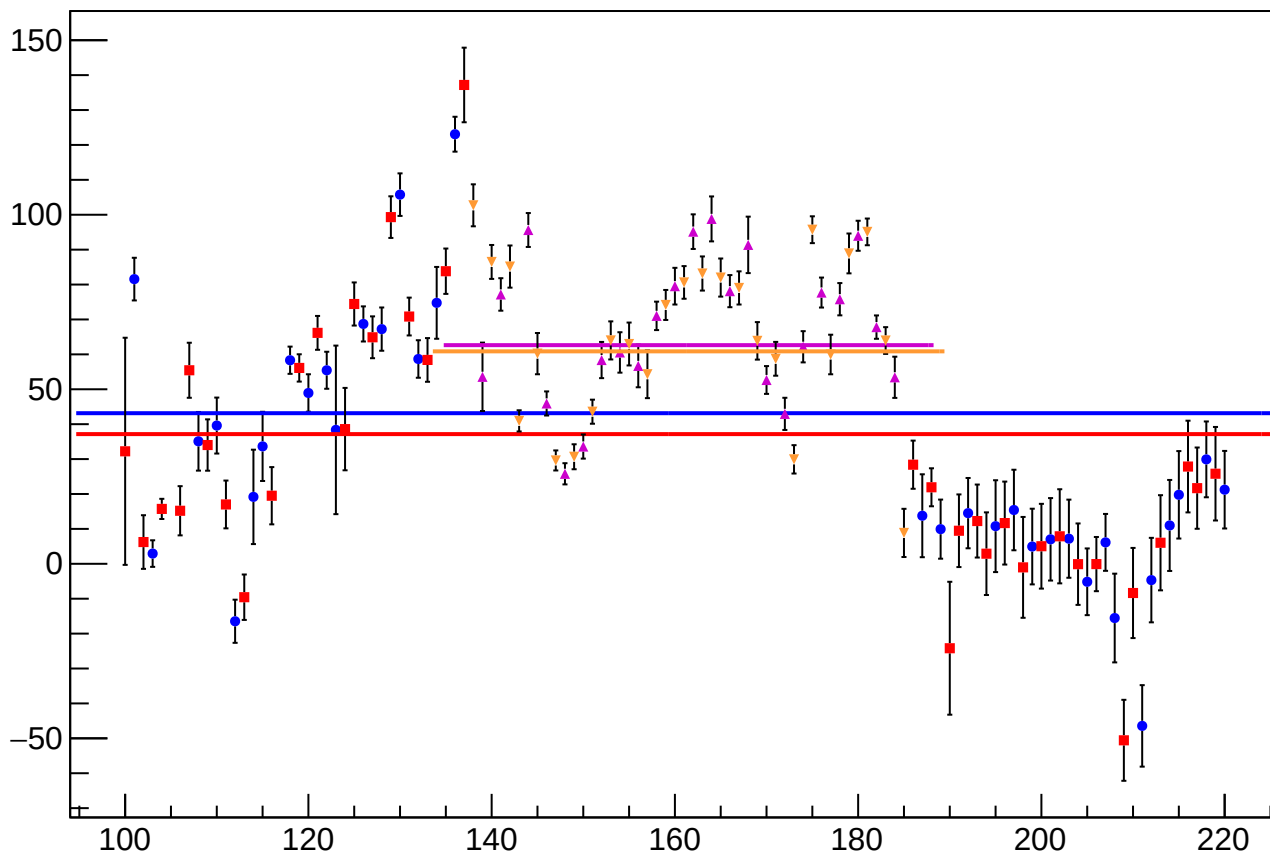
Right: 261.529 $\pm$ 0.811 χ^2 /NDF: 18253.4/70

In: 236.720 $\pm$ 0.804 χ^2 /NDF:10893.1/56

Out: 241.040 $\pm$ 0.746 χ^2 /NDF:15916.5/61

All: 239.042 $\pm$ 0.547 χ^2 /NDF: 26825.1/118

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.147 $\pm$ 1.265 χ^2 /NDF: 921.6/33

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF:731.6/24

Right Out: 37.155 $\pm$ 1.187 χ^2 /NDF: 741.8/36

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF:515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

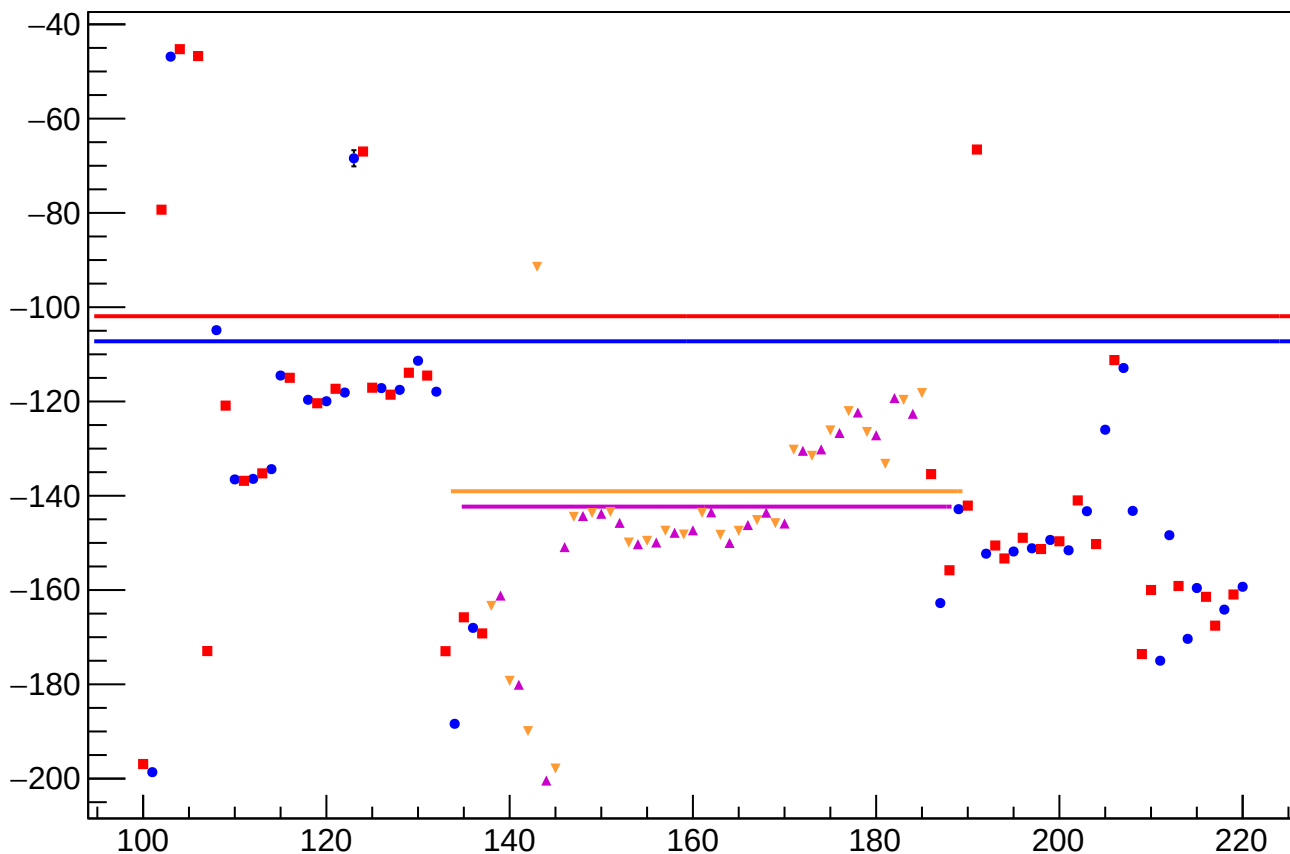
Right: 39.960 $\pm$ 0.866 χ^2 /NDF: 1675.4/70

In: 55.681 $\pm$ 0.756 χ^2 /NDF:1589.7/56

Out: 52.247 $\pm$ 0.715 χ^2 /NDF:1727.5/61

All: 53.869 $\pm$ 0.520 χ^2 /NDF: 3328.1/118

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -107.235 ± 0.057 $\chi^2/\text{NDF}: 751629.1/33$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -101.915 ± 0.054 $\chi^2/\text{NDF}: 785773.0/36$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

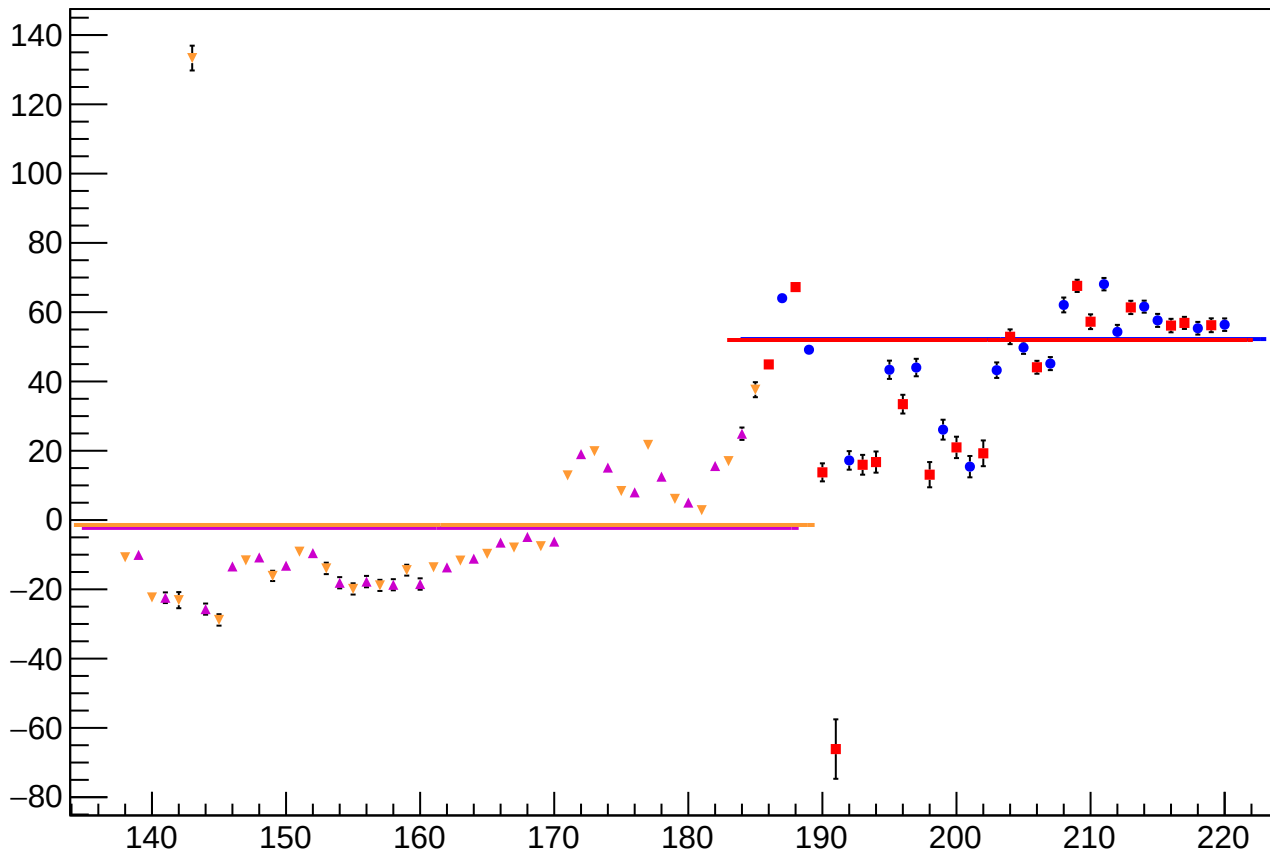
Right: -104.439 ± 0.039 $\chi^2/\text{NDF}: 1542002.3/70$

In: -129.139 ± 0.035 $\chi^2/\text{NDF}: 1132642.8/56$

Out: -124.695 ± 0.034 $\chi^2/\text{NDF}: 1333676.0/61$

All: -126.835 ± 0.024 $\chi^2/\text{NDF}: 2474756.8/111$

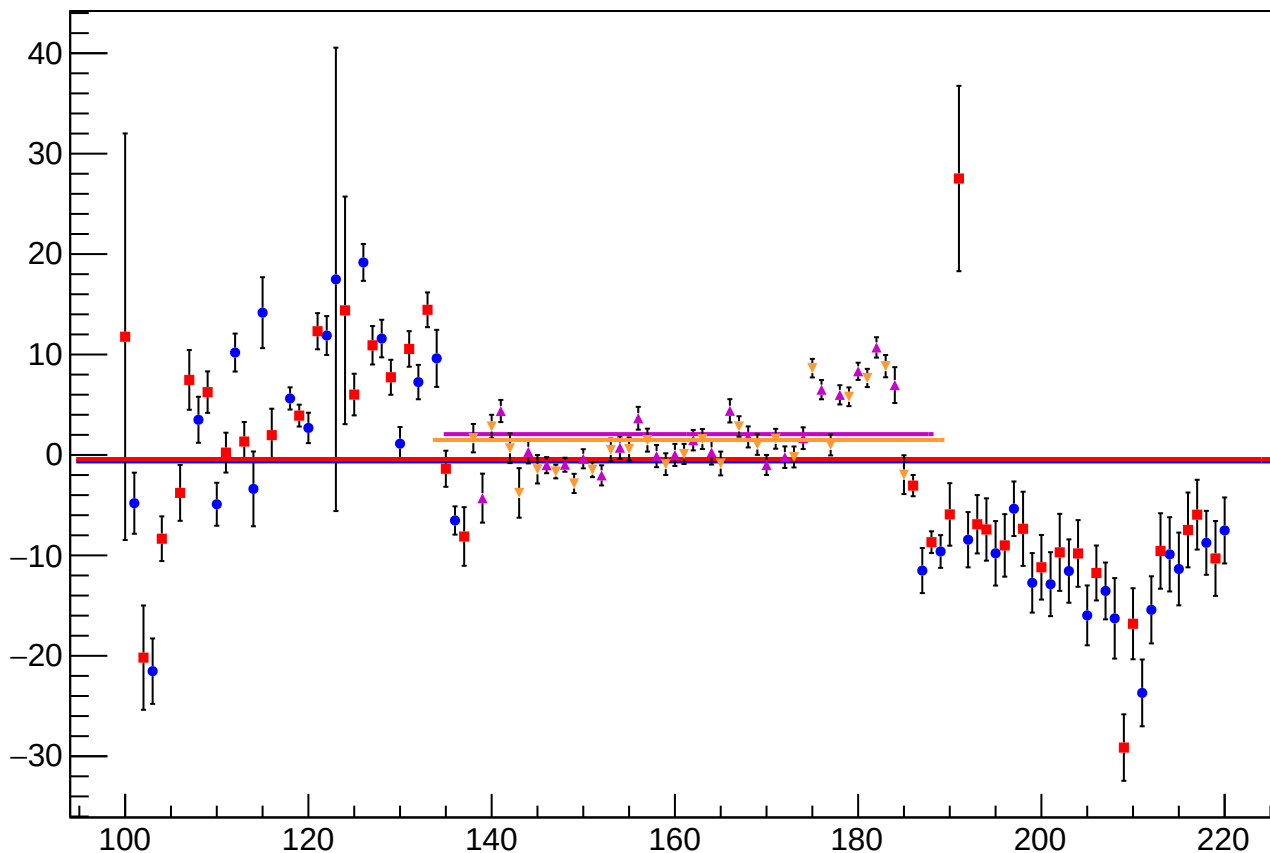
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.237 ± 0.475 χ^2/NDF : 672.8/16
 Left Out: -1.427 ± 0.268 χ^2/NDF : 4339.0/24
 Right Out: 51.969 ± 0.410 χ^2/NDF : 1635.0/17
 Left In: -2.270 ± 0.271 χ^2/NDF : 2521.6/22

Left: -1.844 ± 0.190 χ^2/NDF : 6865.5/47
 Right: 52.083 ± 0.310 χ^2/NDF : 2308.0/34
 In: 11.096 ± 0.235 χ^2/NDF : 13133.5/39
 Out: 14.522 ± 0.224 χ^2/NDF : 17863.6/42
 All: 12.892 ± 0.162 χ^2/NDF : 31108.3/82

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.644 ± 0.390 χ^2/NDF : 665.3/33

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.404 ± 0.363 χ^2/NDF : 557.8/36

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

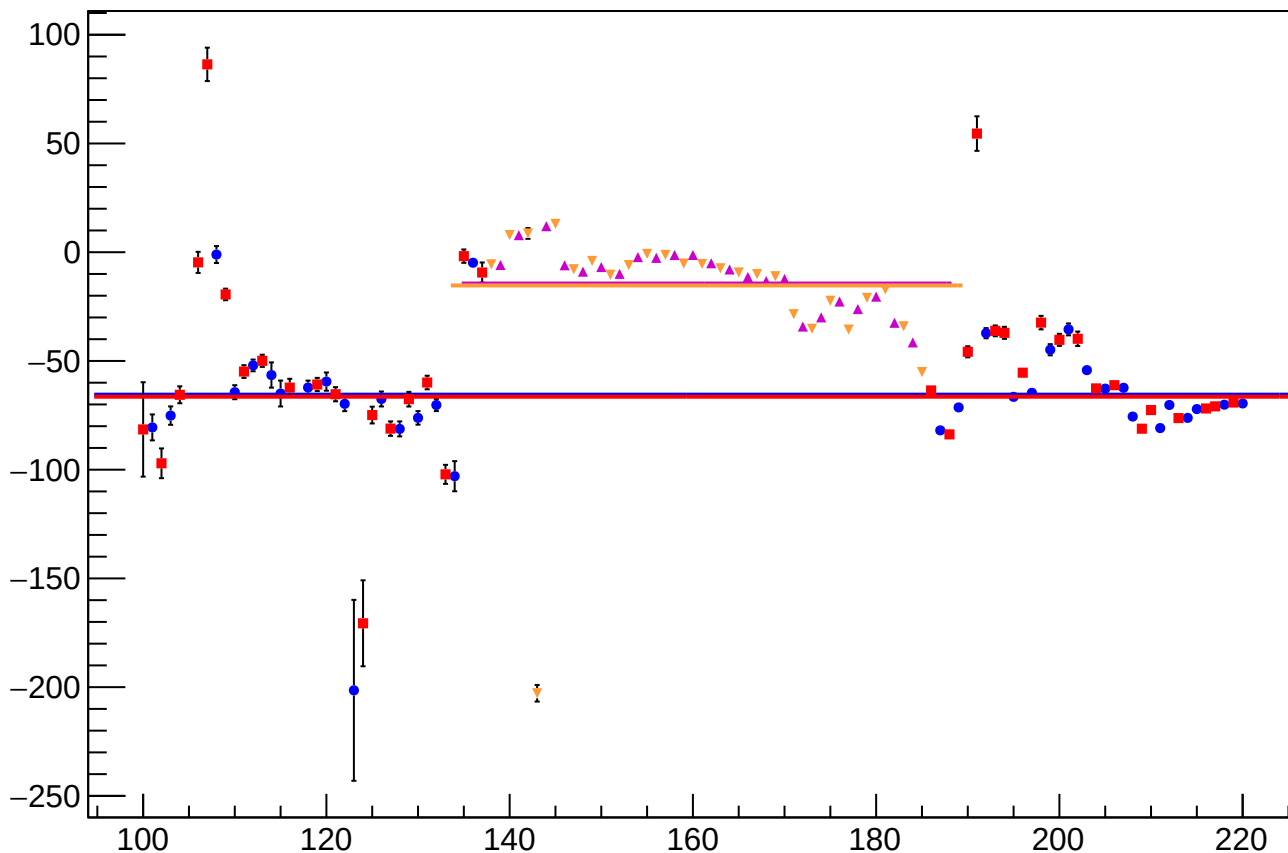
Right: -0.515 ± 0.266 χ^2/NDF : 1223.4/70

In: 1.441 ± 0.189 χ^2/NDF : 977.0/56

Out: 1.015 ± 0.182 χ^2/NDF : 837.3/61

All: 1.221 ± 0.131 χ^2/NDF : 1817.0/118

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.502 $\pm$ 0.401 χ^2 /NDF: 1920.0/33

Left Out: -15.279 $\pm$ 0.267 χ^2 /NDF: 4820.1/24

Right Out: -66.444 $\pm$ 0.334 χ^2 /NDF: 3433.7/36

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

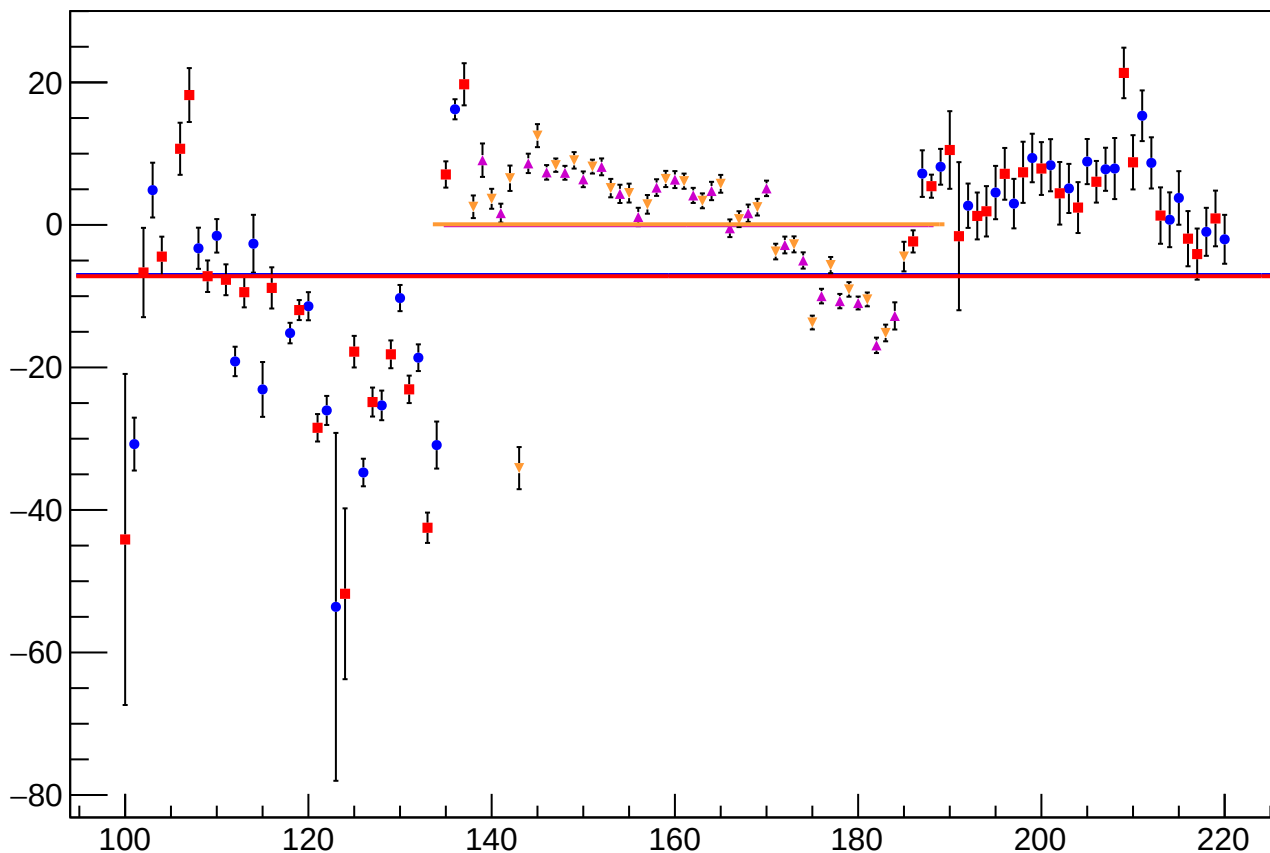
Right: -66.058 $\pm$ 0.257 χ^2 /NDF: 5357.0/70

In: -30.256 $\pm$ 0.224 χ^2 /NDF: 15135.5/56

Out: -35.182 $\pm$ 0.209 χ^2 /NDF: 22560.6/61

All: -32.889 $\pm$ 0.152 χ^2 /NDF: 37955.8/118

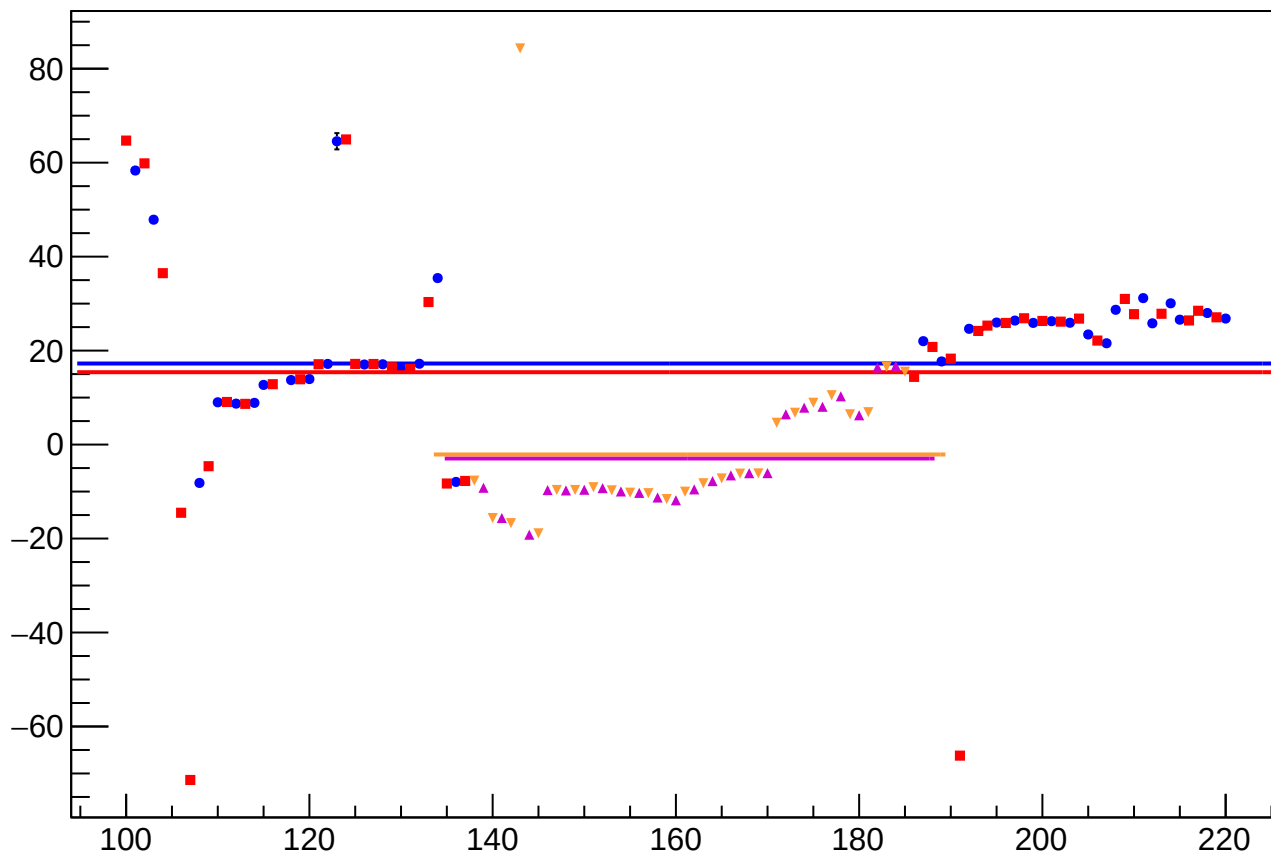
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.030 ± 0.450 χ^2/NDF : 1161.2/33
 Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24
 Right Out: -7.201 ± 0.433 χ^2/NDF : 1104.5/36
 Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47
 Right: -7.119 ± 0.312 χ^2/NDF : 2265.7/70
 In: -1.623 ± 0.214 χ^2/NDF : 2376.1/56
 Out: -1.606 ± 0.209 χ^2/NDF : 2494.2/61
 All: -1.615 ± 0.149 χ^2/NDF : 4870.3/118

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.253+/-0.022 χ^2/NDF : 497962.0/33

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.402+/-0.022 χ^2/NDF : 776652.2/36

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

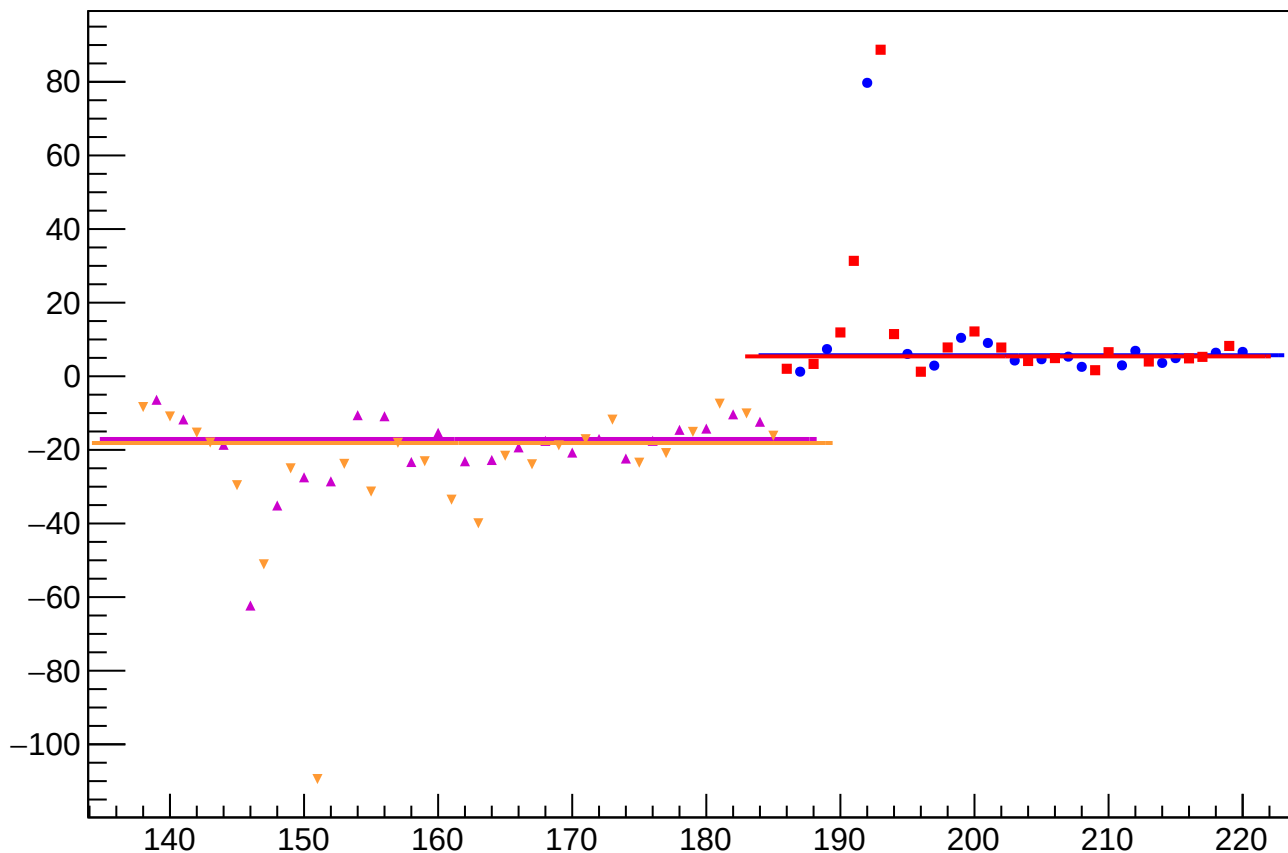
Right: 16.315+/-0.016 χ^2/NDF : 1278072.1/70

In: 0.968+/-0.010 χ^2/NDF : 1916810.1/56

Out: 1.331+/-0.010 χ^2/NDF : 2374003.5/61

All: 1.151+/-0.007 χ^2/NDF : 4291492.7/118

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.716 $\pm$ 0.045 χ^2 /NDF: 26514.2/16

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF:88551.6/24

Right Out: 5.403 $\pm$ 0.045 χ^2 /NDF: 27114.4/17

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF:44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

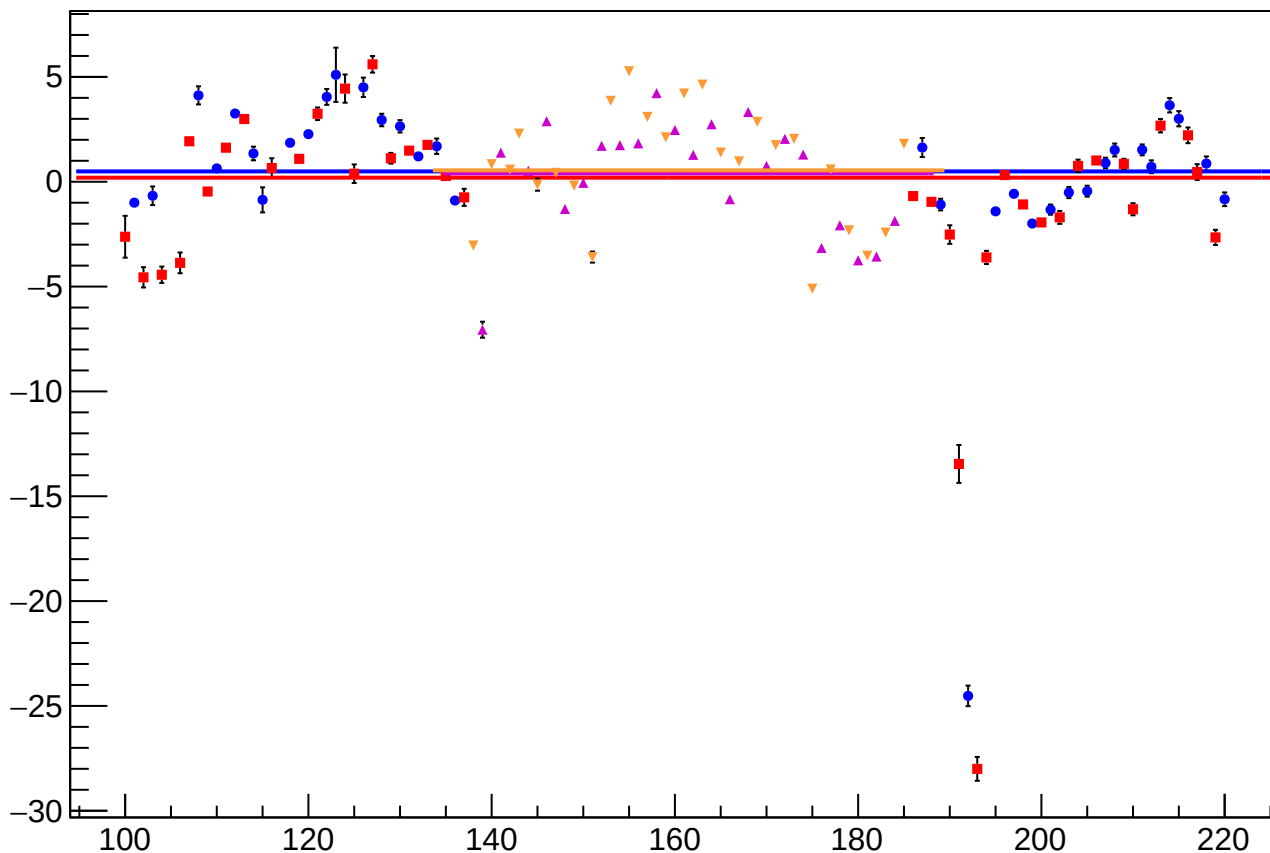
Right: 5.559 $\pm$ 0.032 χ^2 /NDF: 53652.3/34

In: -7.642 $\pm$ 0.029 χ^2 /NDF:217531.5/39

Out: -8.105 $\pm$ 0.029 χ^2 /NDF:271427.2/42

All: -7.871 $\pm$ 0.021 χ^2 /NDF: 489083.0/82

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.493 $\pm$ 0.045 χ^2 /NDF: 4012.4/33

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF:7085.3/24

Right Out: 0.194 $\pm$ 0.043 χ^2 /NDF: 4450.6/36

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

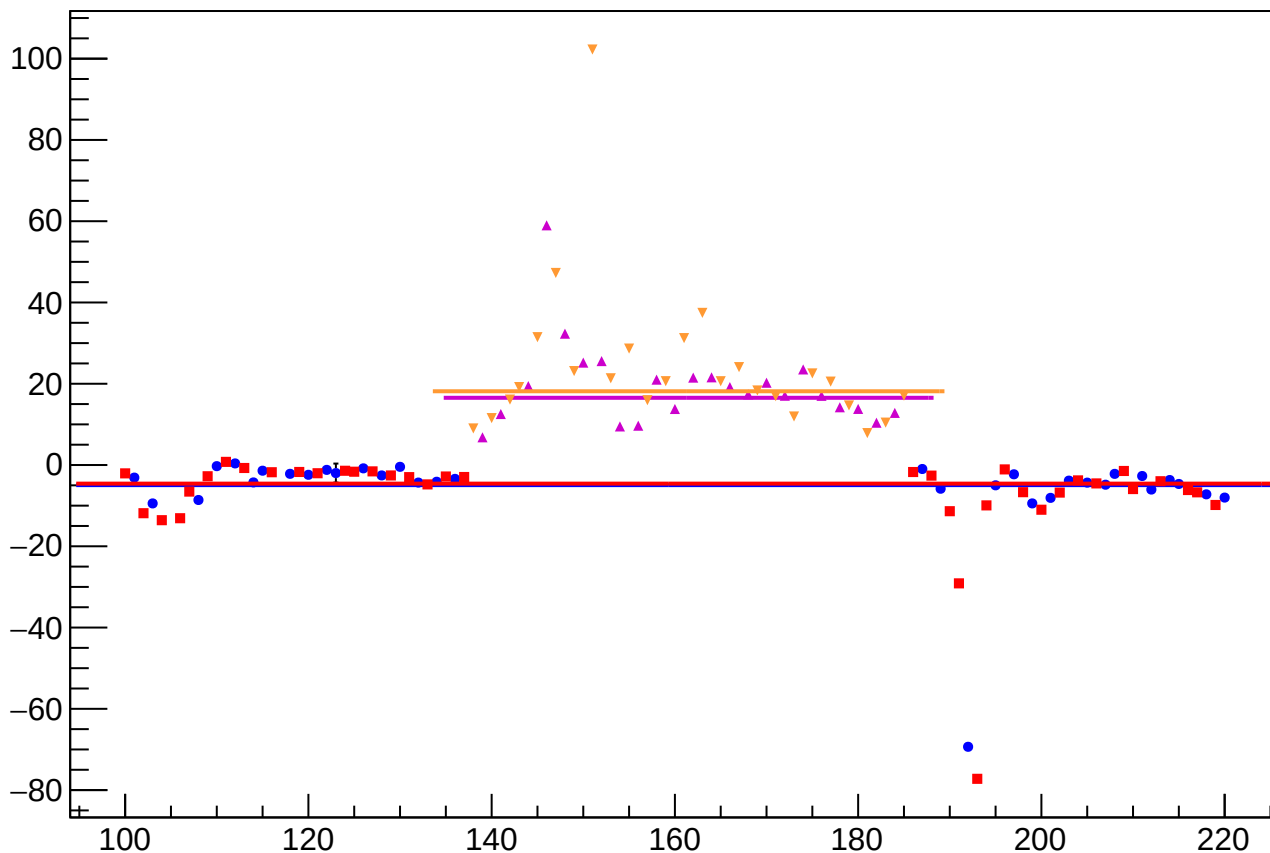
Right: 0.337 $\pm$ 0.031 χ^2 /NDF: 8485.7/70

In: 0.427 $\pm$ 0.025 χ^2 /NDF:10251.1/56

Out: 0.418 $\pm$ 0.026 χ^2 /NDF:11577.5/61

All: 0.423 $\pm$ 0.018 χ^2 /NDF: 21828.6/118

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.948 ± 0.041 χ^2/NDF : 27648.4/33

Left Out: 18.150 ± 0.039 χ^2/NDF : 77847.8/24

Right Out: -4.582 ± 0.039 χ^2/NDF : 29038.1/36

Left In: 16.543 ± 0.038 χ^2/NDF : 40855.0/22

Left: 17.318 ± 0.027 χ^2/NDF : 119577.9/47

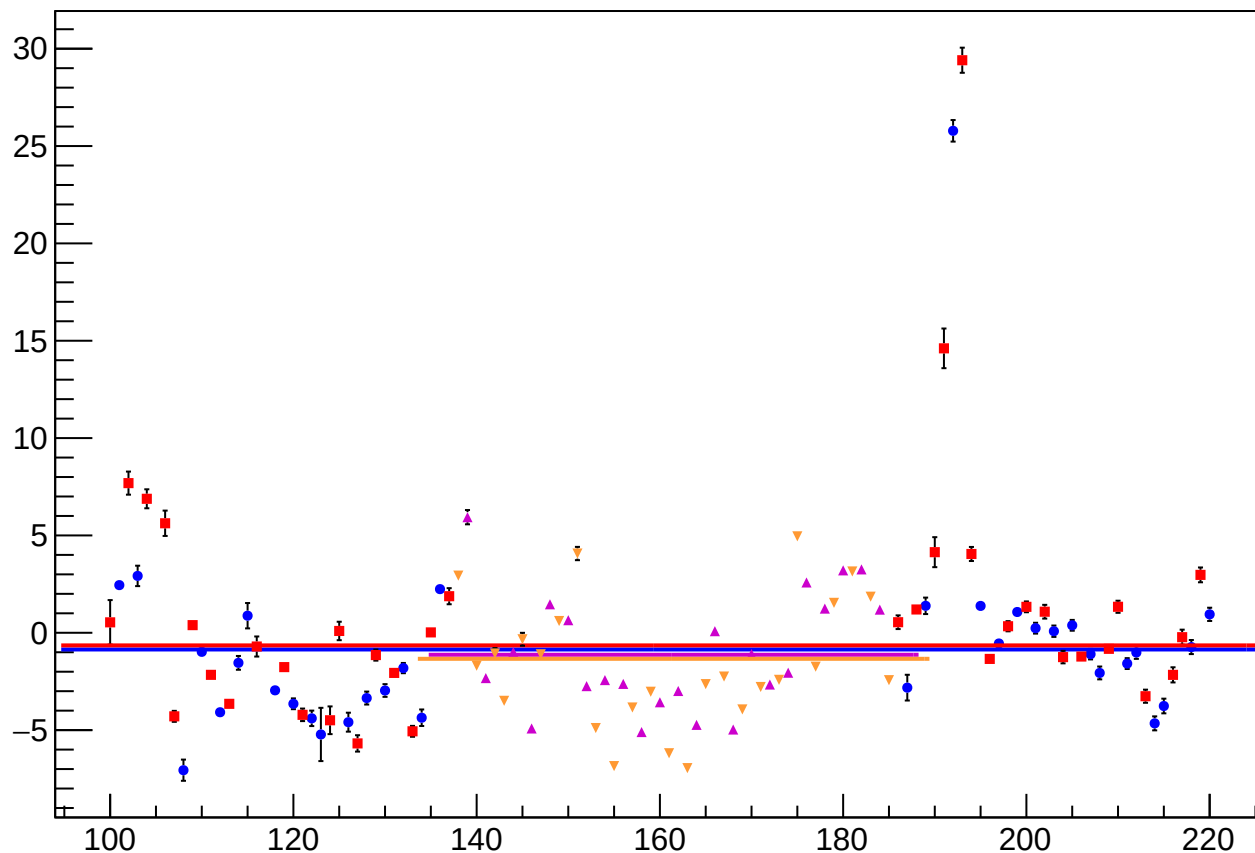
Right: -4.755 ± 0.028 χ^2/NDF : 56728.5/70

In: 6.685 ± 0.028 χ^2/NDF : 217107.6/56

Out: 6.730 ± 0.028 χ^2/NDF : 276739.5/61

All: 6.707 ± 0.020 χ^2/NDF : 493848.4/118

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected

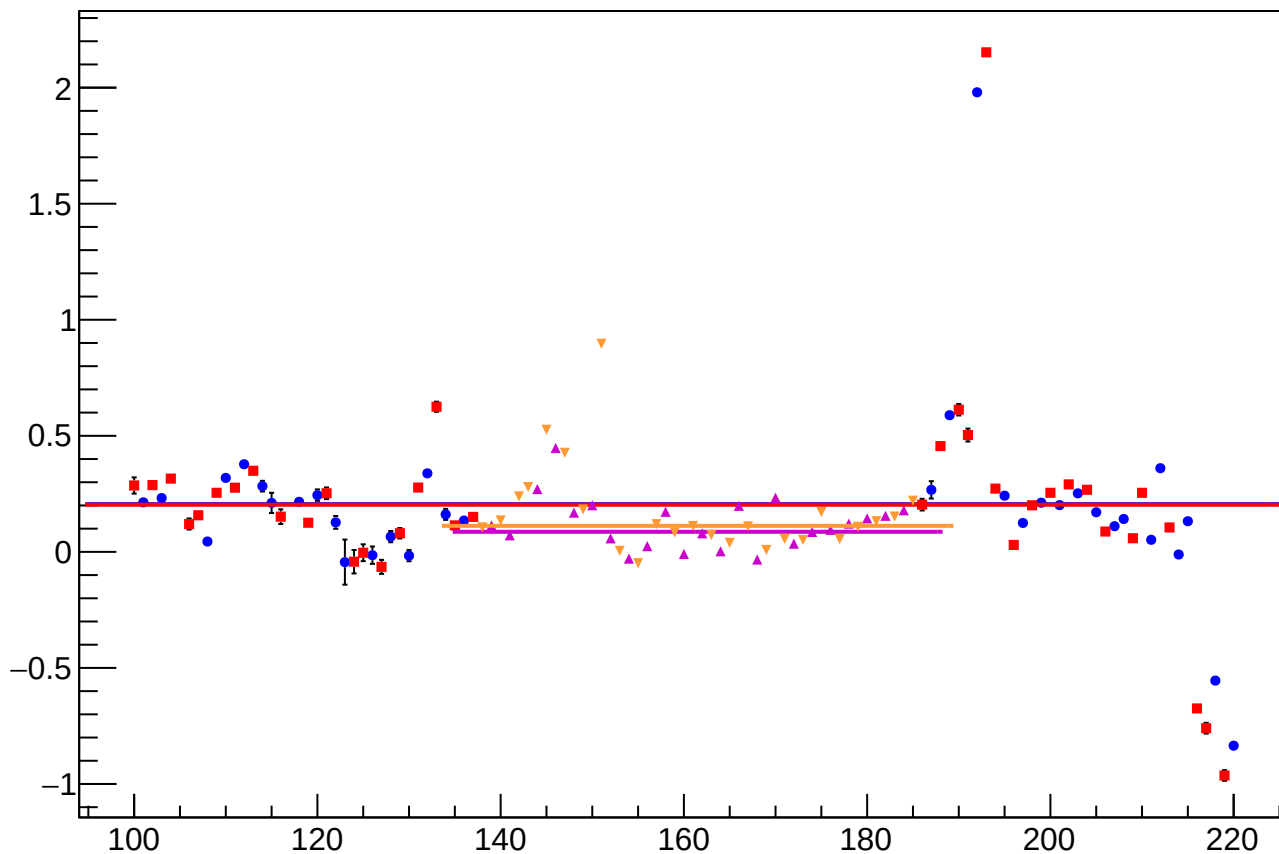


Right In: -0.858 ± 0.052 $\chi^2/\text{NDF}: 4143.9/33$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -0.648 ± 0.050 $\chi^2/\text{NDF}: 4683.2/36$
 Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$
 Right: -0.749 ± 0.036 $\chi^2/\text{NDF}: 8835.6/70$
 In: -1.047 ± 0.028 $\chi^2/\text{NDF}: 10903.4/56$
 Out: -1.102 ± 0.029 $\chi^2/\text{NDF}: 12752.3/61$

All: -1.074 ± 0.020 $\chi^2/\text{NDF}: 23657.5/118$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.002 χ^2/NDF : 15830.2/33

Left Out: 0.112 $\pm$ 0.002 χ^2/NDF :4503.9/24

Right Out: 0.203 $\pm$ 0.002 χ^2/NDF : 18310.7/36

Left In: 0.087 $\pm$ 0.002 χ^2/NDF :3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2/NDF : 8295.3/47

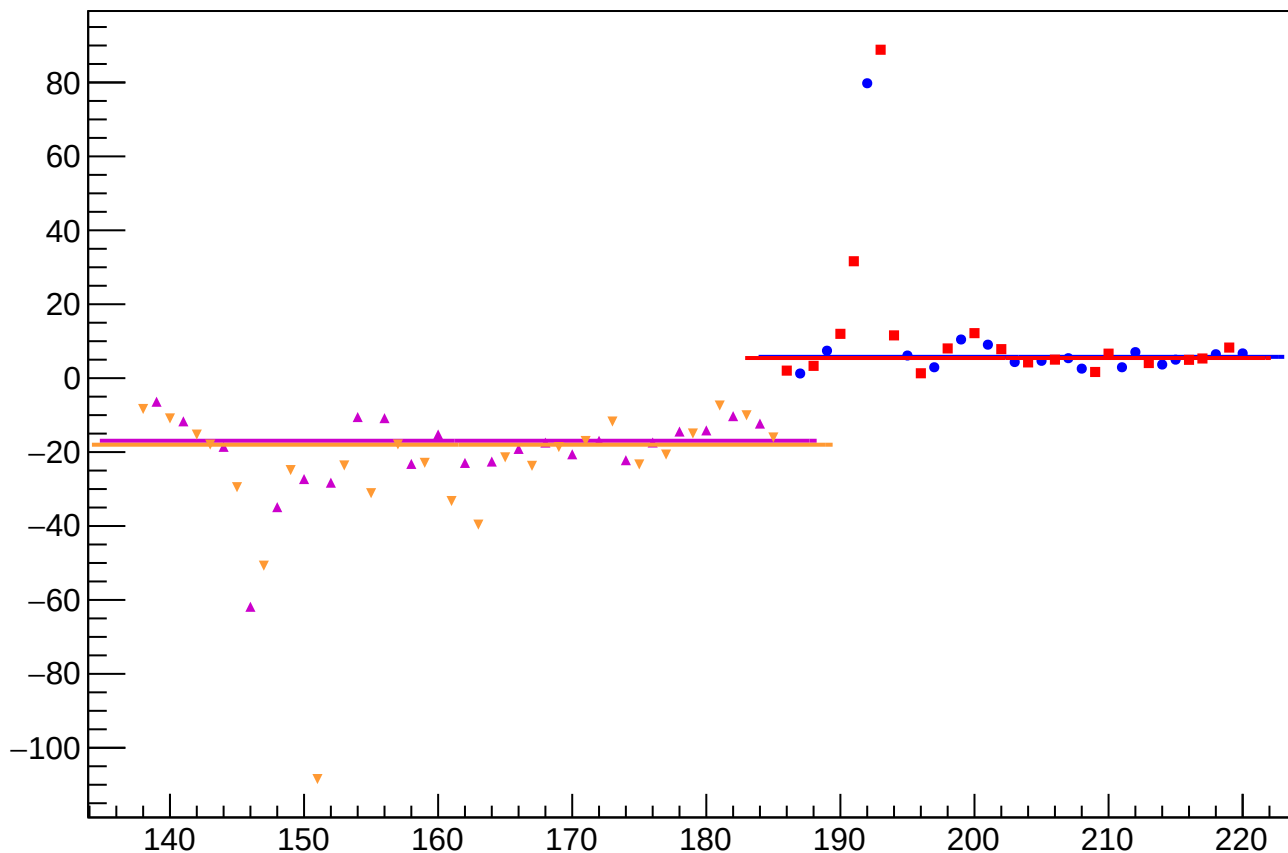
Right: 0.204 $\pm$ 0.002 χ^2/NDF : 34141.4/70

In: 0.122 $\pm$ 0.001 χ^2/NDF :21338.0/56

Out: 0.142 $\pm$ 0.001 χ^2/NDF :23885.4/61

All: 0.132 $\pm$ 0.001 χ^2/NDF : 45352.5/118

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.768+/-0.045 χ^2/NDF : 26731.6/16

Left Out: -18.005+/-0.039 χ^2/NDF : 88391.0/24

Right Out: 5.449+/-0.045 χ^2/NDF : 27470.4/17

Left In: -16.934+/-0.038 χ^2/NDF : 44060.6/22

Left: -17.459+/-0.027 χ^2/NDF : 132843.0/47

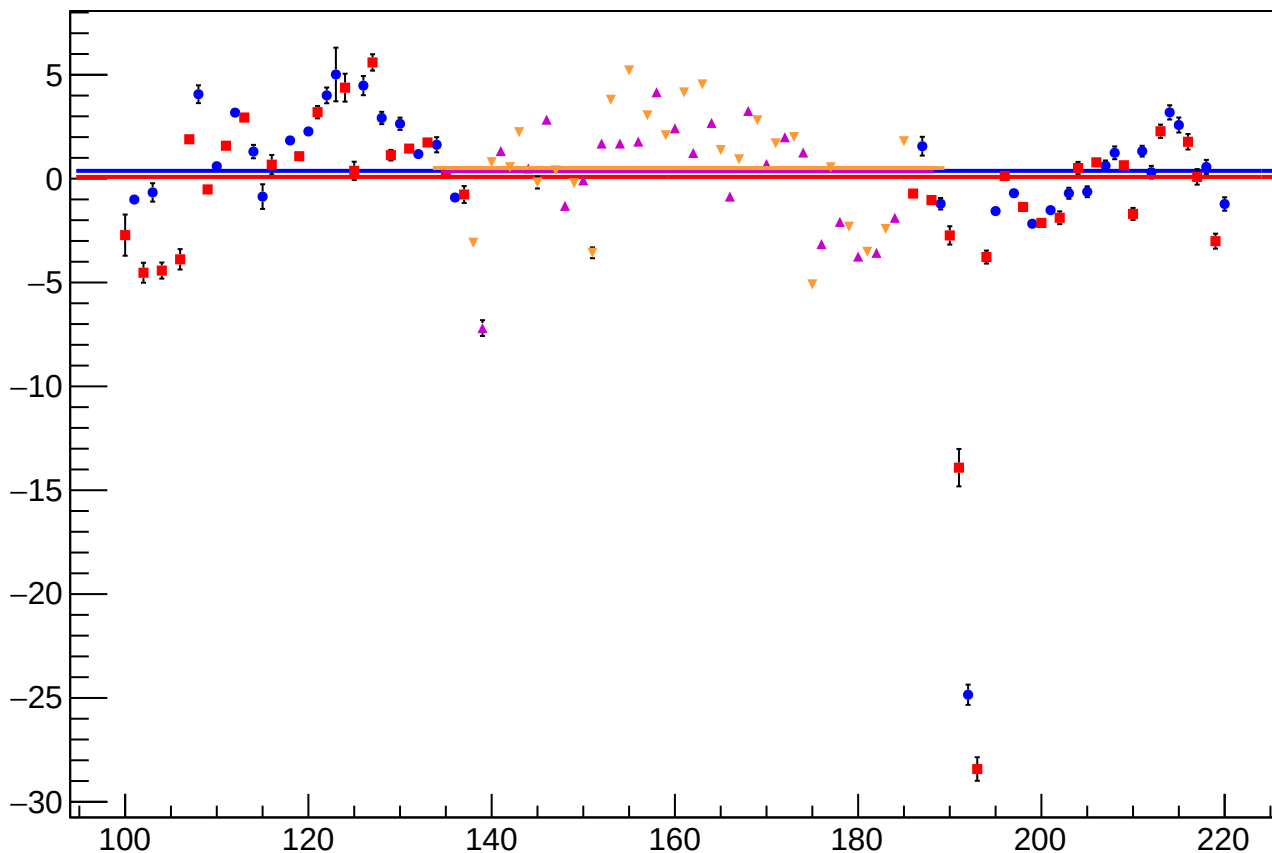
Right: 5.607+/-0.032 χ^2/NDF : 54227.0/34

In: -7.585+/-0.029 χ^2/NDF : 218535.8/39

Out: -8.026+/-0.029 χ^2/NDF : 272604.7/42

All: -7.804+/-0.021 χ^2/NDF : 491255.1/82

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.376 ± 0.045 χ^2/NDF : 4115.5/33

Left Out: 0.511 ± 0.032 χ^2/NDF : 7070.4/24

Right Out: 0.081 ± 0.043 χ^2/NDF : 4609.1/36

Left In: 0.360 ± 0.031 χ^2/NDF : 6221.1/22

Left: 0.432 ± 0.022 χ^2/NDF : 13303.2/47

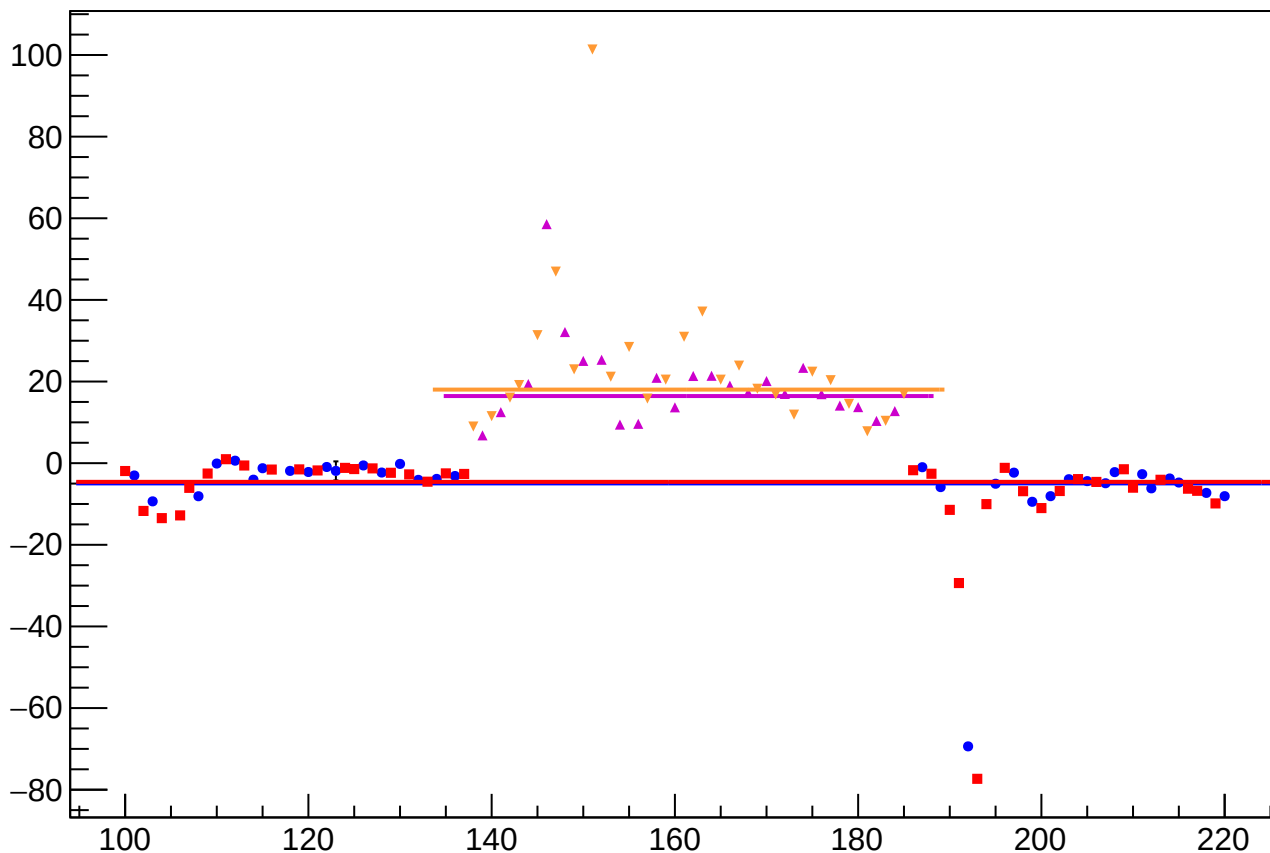
Right: 0.222 ± 0.031 χ^2/NDF : 8746.9/70

In: 0.365 ± 0.025 χ^2/NDF : 10336.7/56

Out: 0.358 ± 0.026 χ^2/NDF : 11743.5/61

All: 0.361 ± 0.018 χ^2/NDF : 22080.2/118

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.957+/-0.041 χ^2/NDF : 27989.1/33

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.575+/-0.039 χ^2/NDF : 29534.9/36

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

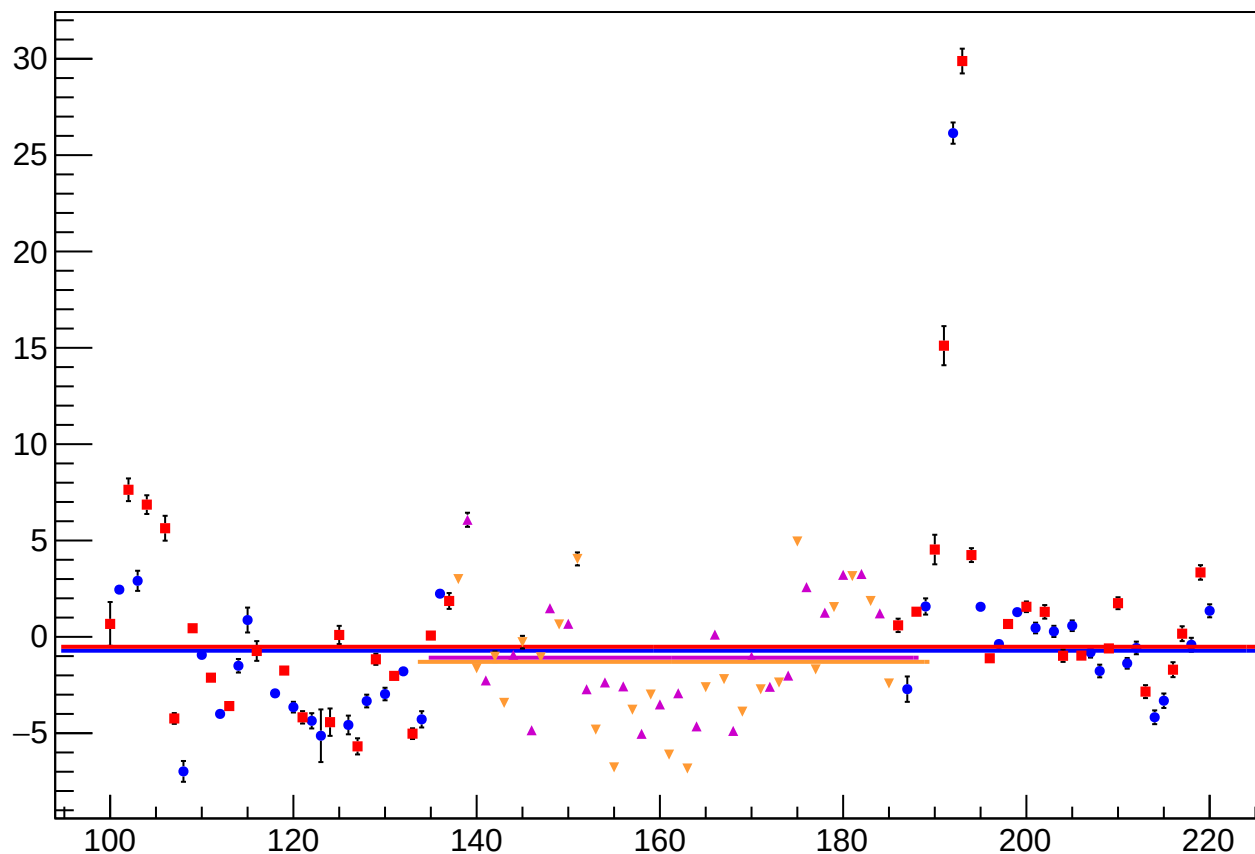
Right: -4.756+/-0.028 χ^2/NDF : 57570.2/70

In: 6.650+/-0.028 χ^2/NDF : 217723.3/56

Out: 6.679+/-0.027 χ^2/NDF : 277442.7/61

All: 6.665+/-0.019 χ^2/NDF : 495166.6/118

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

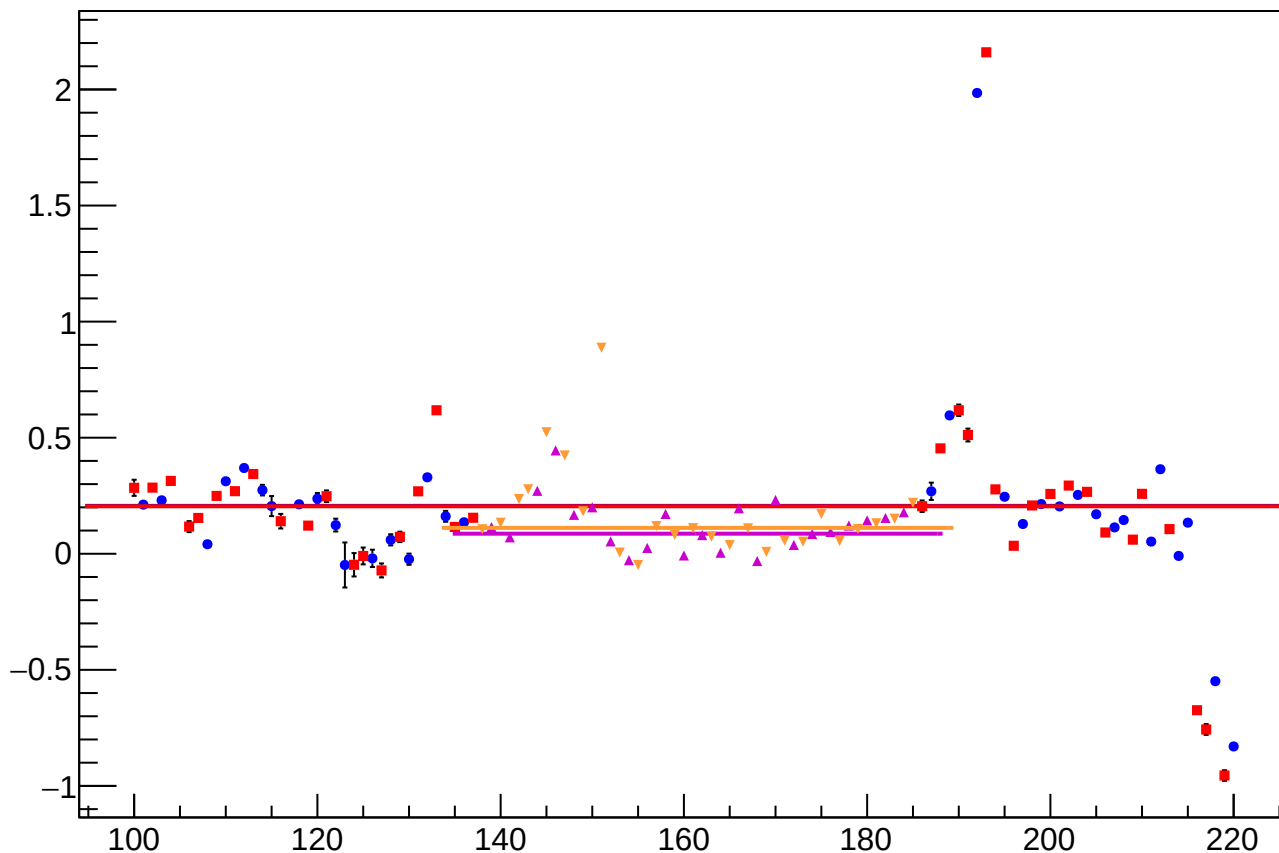


Right In: -0.719 ± 0.051 $\chi^2/\text{NDF}: 4225.6/33$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.515 ± 0.050 $\chi^2/\text{NDF}: 4844.7/36$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.613 ± 0.036 $\chi^2/\text{NDF}: 9078.4/70$
 In: -0.972 ± 0.028 $\chi^2/\text{NDF}: 10984.4/56$
 Out: -1.030 ± 0.029 $\chi^2/\text{NDF}: 12933.9/61$

All: -1.000 ± 0.020 $\chi^2/\text{NDF}: 23920.3/118$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.206 ± 0.002 χ^2/NDF : 15961.7/33

Left Out: 0.111 ± 0.002 χ^2/NDF : 4496.0/24

Right Out: 0.205 ± 0.002 χ^2/NDF : 18459.9/36

Left In: 0.087 ± 0.001 χ^2/NDF : 3625.5/22

Left: 0.098 ± 0.001 χ^2/NDF : 8251.9/47

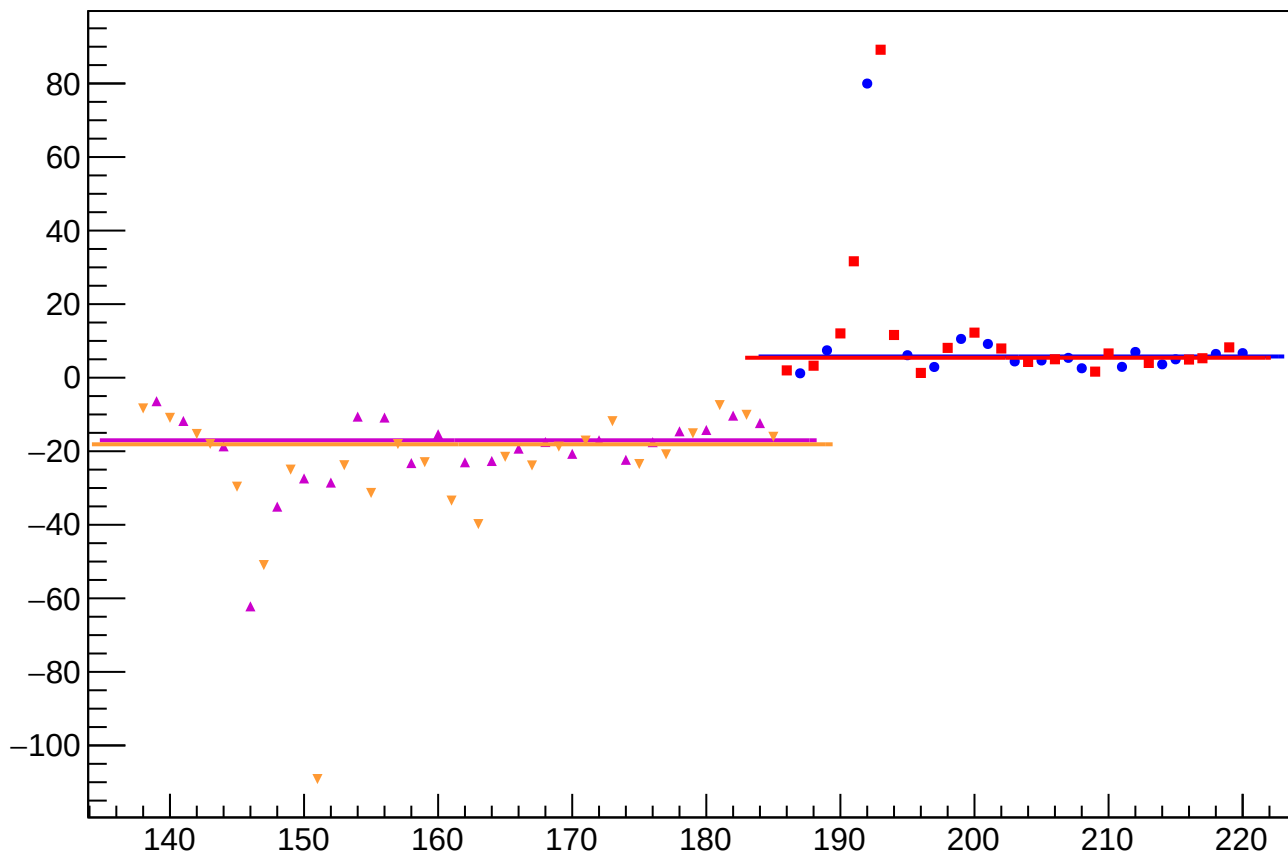
Right: 0.205 ± 0.002 χ^2/NDF : 34421.8/70

In: 0.122 ± 0.001 χ^2/NDF : 21484.0/56

Out: 0.142 ± 0.001 χ^2/NDF : 24084.9/61

All: 0.132 ± 0.001 χ^2/NDF : 45695.8/118

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.767 $\pm$ 0.046 χ^2 /NDF: 26723.8/16

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF:88529.7/24

Right Out: 5.423 $\pm$ 0.045 χ^2 /NDF: 27487.5/17

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF:44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

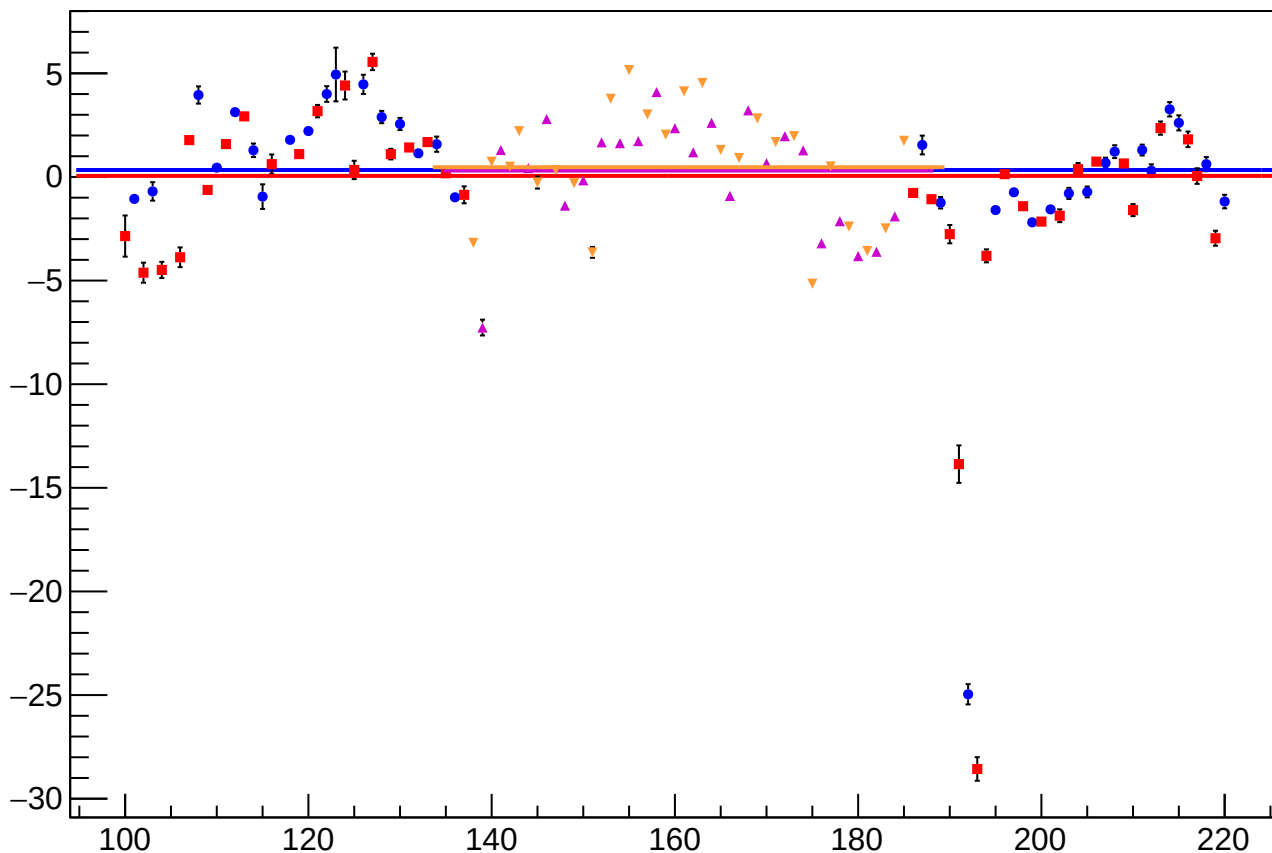
Right: 5.593 $\pm$ 0.032 χ^2 /NDF: 54240.1/34

In: -7.672 $\pm$ 0.029 χ^2 /NDF:218084.7/39

Out: -8.107 $\pm$ 0.029 χ^2 /NDF:272377.8/42

All: -7.888 $\pm$ 0.021 χ^2 /NDF: 490572.9/82

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.336 $\pm$ 0.045 χ^2 /NDF: 4108.5/33

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF:7093.0/24

Right Out: 0.052 $\pm$ 0.043 χ^2 /NDF: 4597.2/36

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

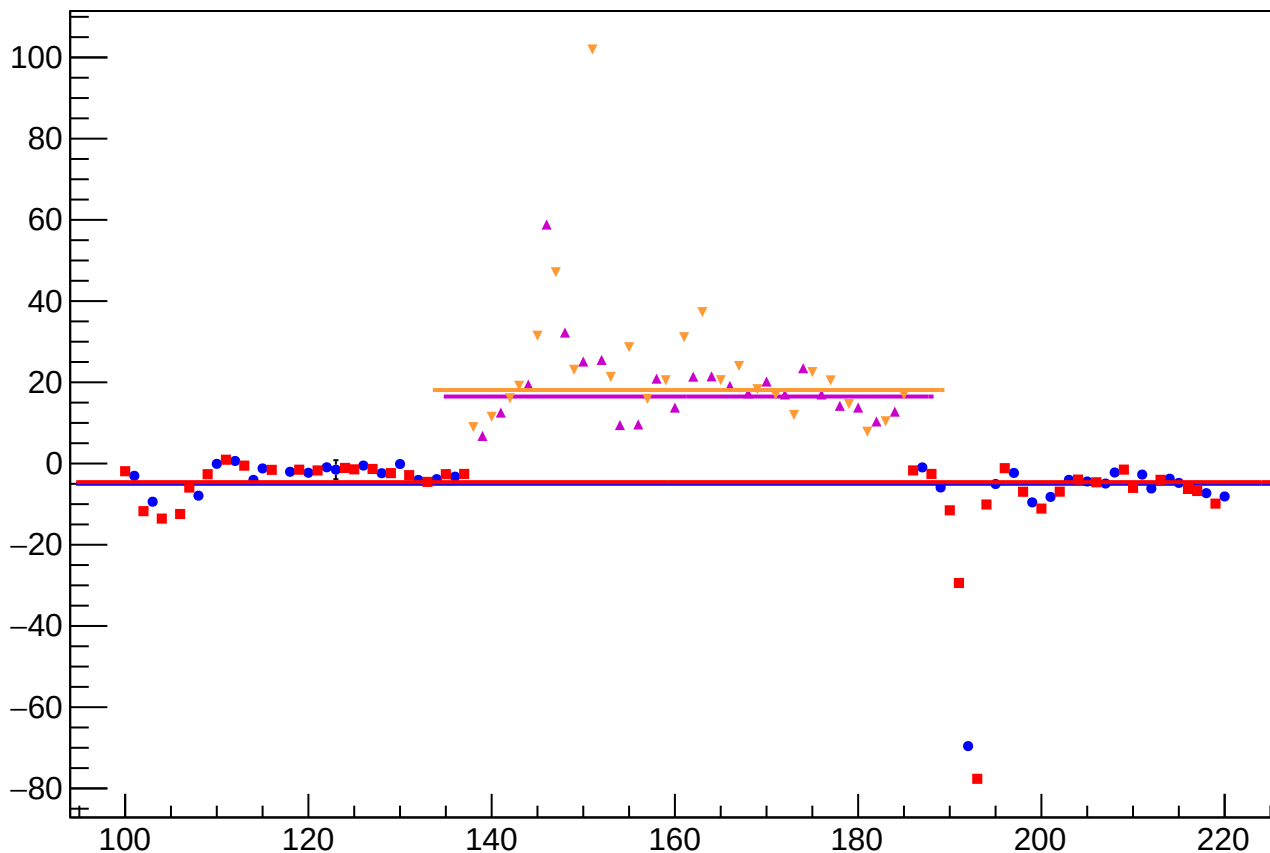
Right: 0.187 $\pm$ 0.031 χ^2 /NDF: 8726.2/70

In: 0.319 $\pm$ 0.025 χ^2 /NDF:10291.8/56

Out: 0.320 $\pm$ 0.026 χ^2 /NDF:11749.9/61

All: 0.319 $\pm$ 0.018 χ^2 /NDF: 22041.7/118

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.985 ± 0.041 $\chi^2/\text{NDF}: 27975.2/33$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -4.581 ± 0.039 $\chi^2/\text{NDF}: 29531.4/36$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

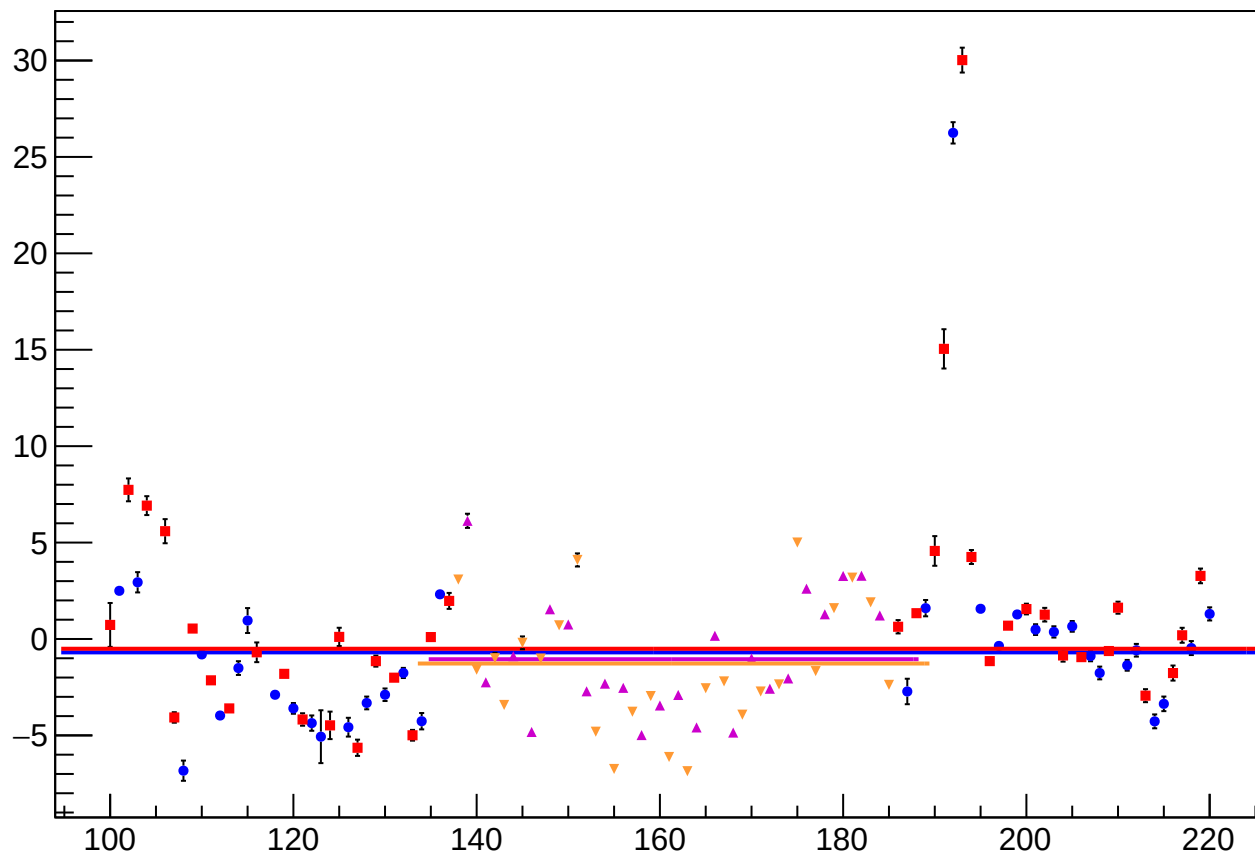
Right: -4.772 ± 0.028 $\chi^2/\text{NDF}: 57557.6/70$

In: 6.696 ± 0.028 $\chi^2/\text{NDF}: 217317.6/56$

Out: 6.714 ± 0.028 $\chi^2/\text{NDF}: 277291.0/61$

All: 6.705 ± 0.020 $\chi^2/\text{NDF}: 494608.8/118$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

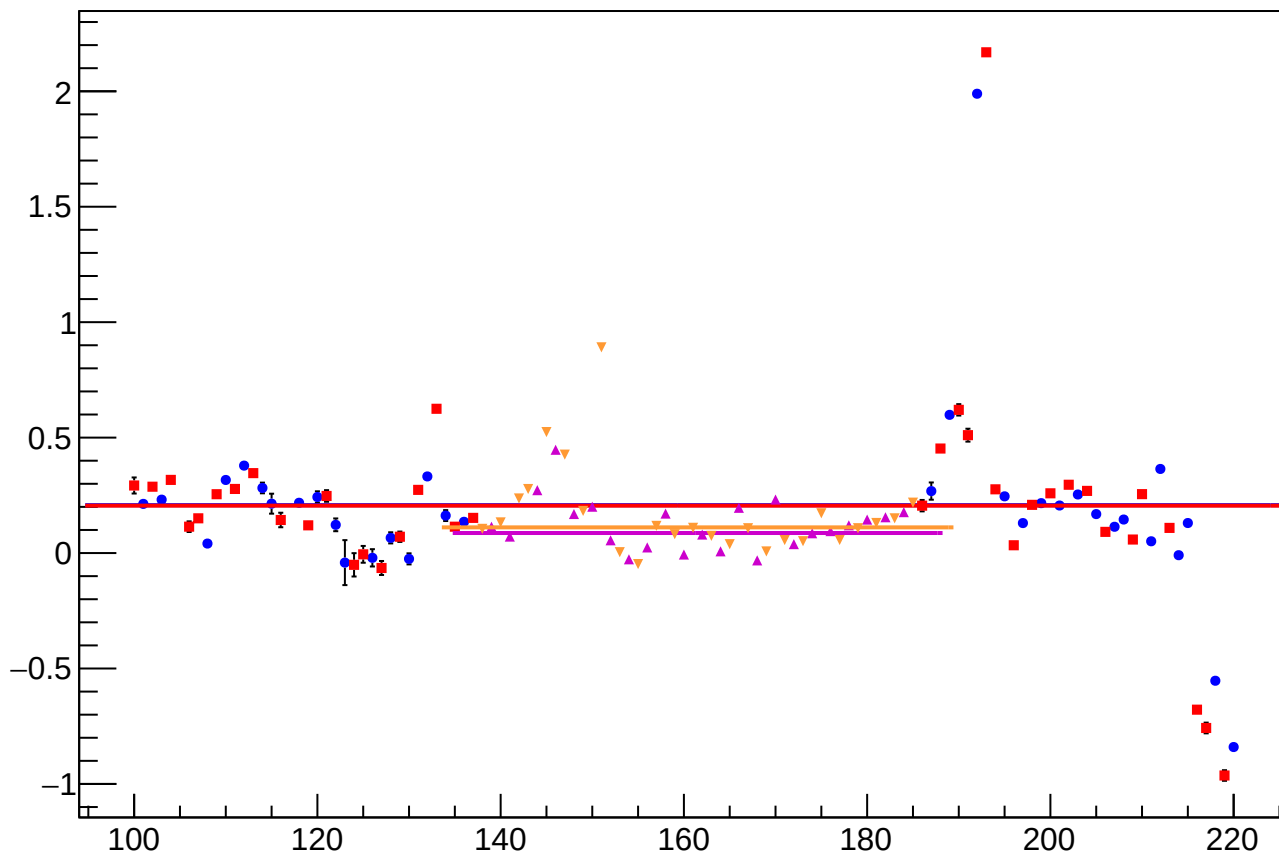


Right In: -0.695 ± 0.052 $\chi^2/\text{NDF}: 4222.2/33$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.506 ± 0.050 $\chi^2/\text{NDF}: 4833.3/36$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.597 ± 0.036 $\chi^2/\text{NDF}: 9062.5/70$
 In: -0.943 ± 0.028 $\chi^2/\text{NDF}: 10928.5/56$
 Out: -1.012 ± 0.029 $\chi^2/\text{NDF}: 12941.2/61$

All: -0.977 ± 0.020 $\chi^2/\text{NDF}: 23872.5/118$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.207 ± 0.002 χ^2/NDF : 15969.3/33

Left Out: 0.111 ± 0.002 χ^2/NDF : 4474.5/24

Right Out: 0.205 ± 0.002 χ^2/NDF : 18455.5/36

Left In: 0.087 ± 0.001 χ^2/NDF : 3598.5/22

Left: 0.098 ± 0.001 χ^2/NDF : 8197.1/47

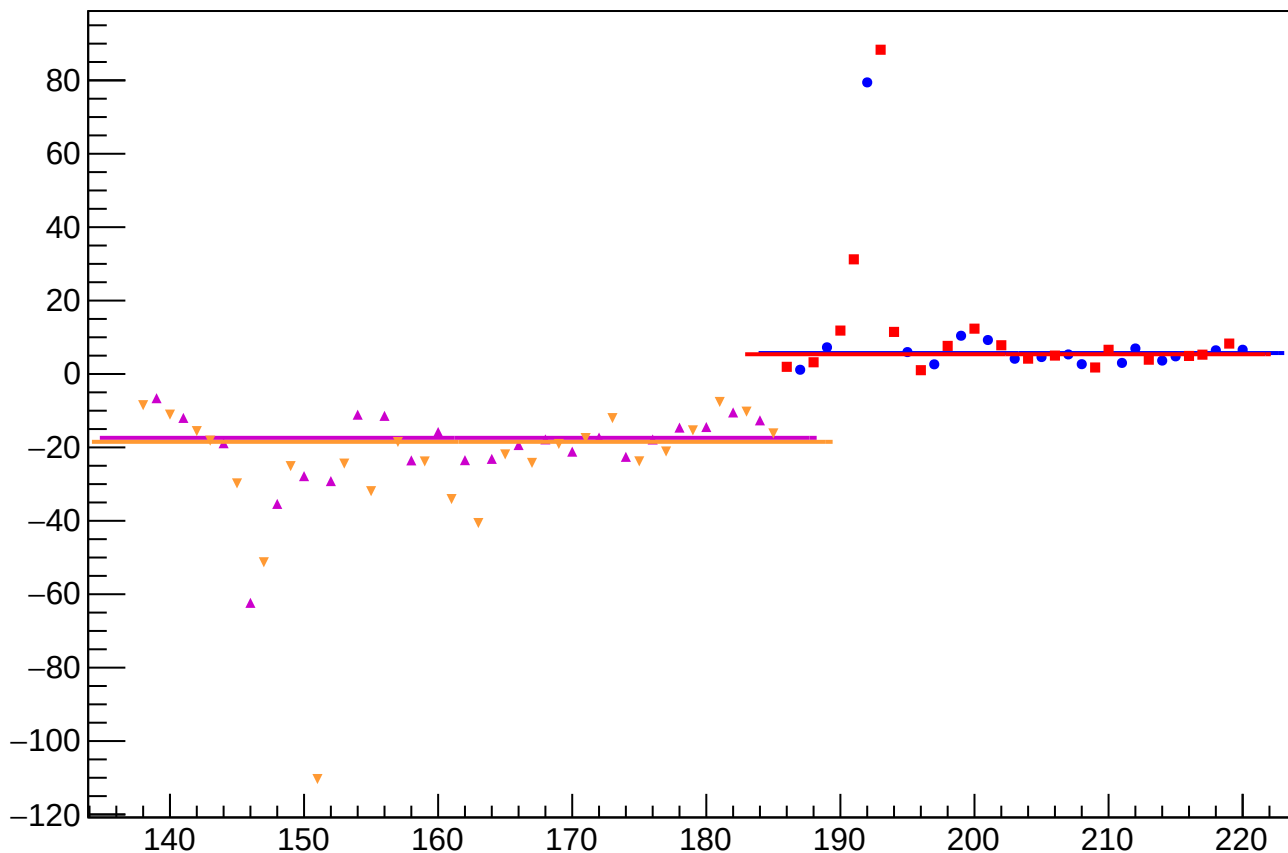
Right: 0.206 ± 0.002 χ^2/NDF : 34425.2/70

In: 0.122 ± 0.001 χ^2/NDF : 21469.6/56

Out: 0.142 ± 0.001 χ^2/NDF : 24071.8/61

All: 0.132 ± 0.001 χ^2/NDF : 45663.3/118

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.707 ± 0.046 $\chi^2/\text{NDF}: 26246.3/16$

Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$

Right Out: 5.379 ± 0.045 $\chi^2/\text{NDF}: 26914.2/17$

Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$

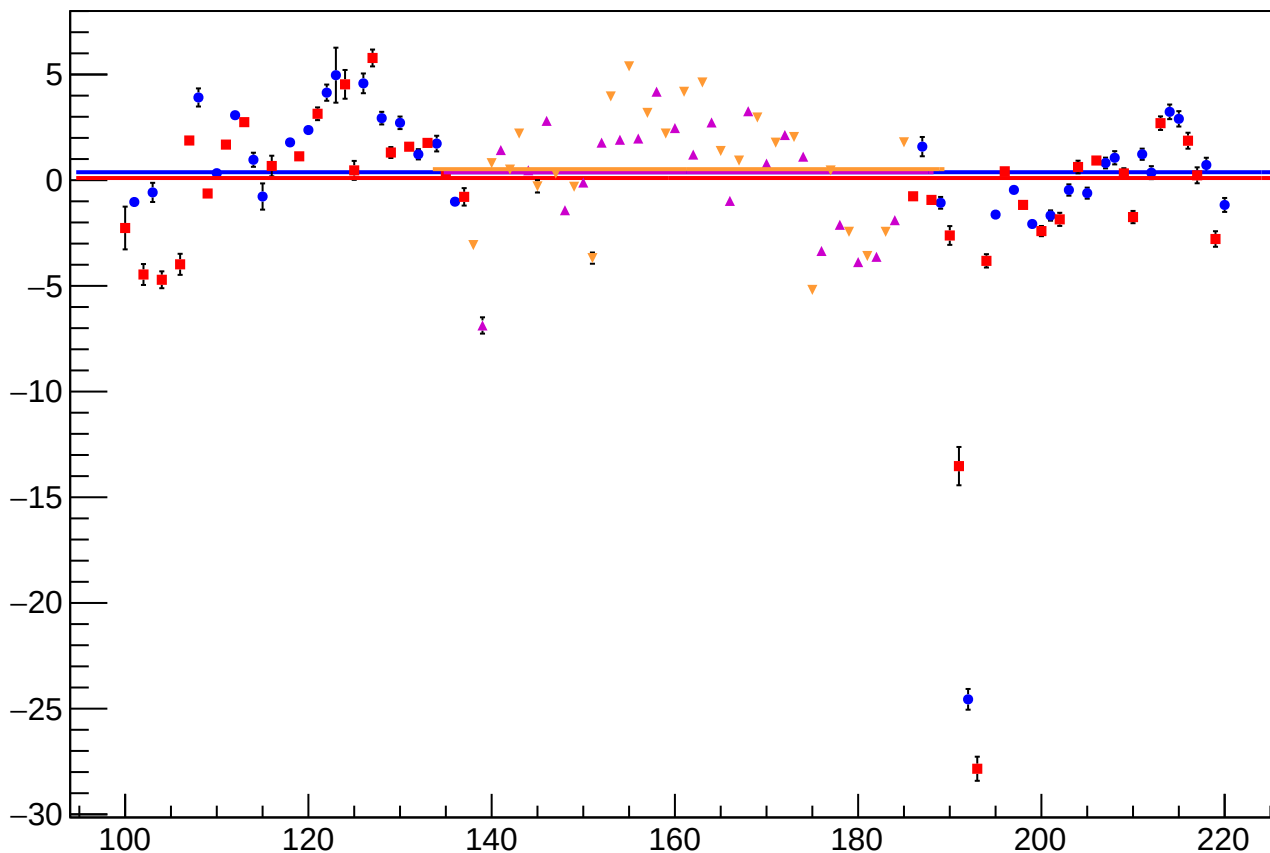
Right: 5.541 ± 0.032 $\chi^2/\text{NDF}: 53186.3/34$

In: -7.709 ± 0.030 $\chi^2/\text{NDF}: 216800.3/39$

Out: -8.125 ± 0.030 $\chi^2/\text{NDF}: 271526.8/42$

All: -7.916 ± 0.021 $\chi^2/\text{NDF}: 488424.6/82$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.377 ± 0.046 $\chi^2/\text{NDF}: 3977.3/33$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.102 ± 0.044 $\chi^2/\text{NDF}: 4450.0/36$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

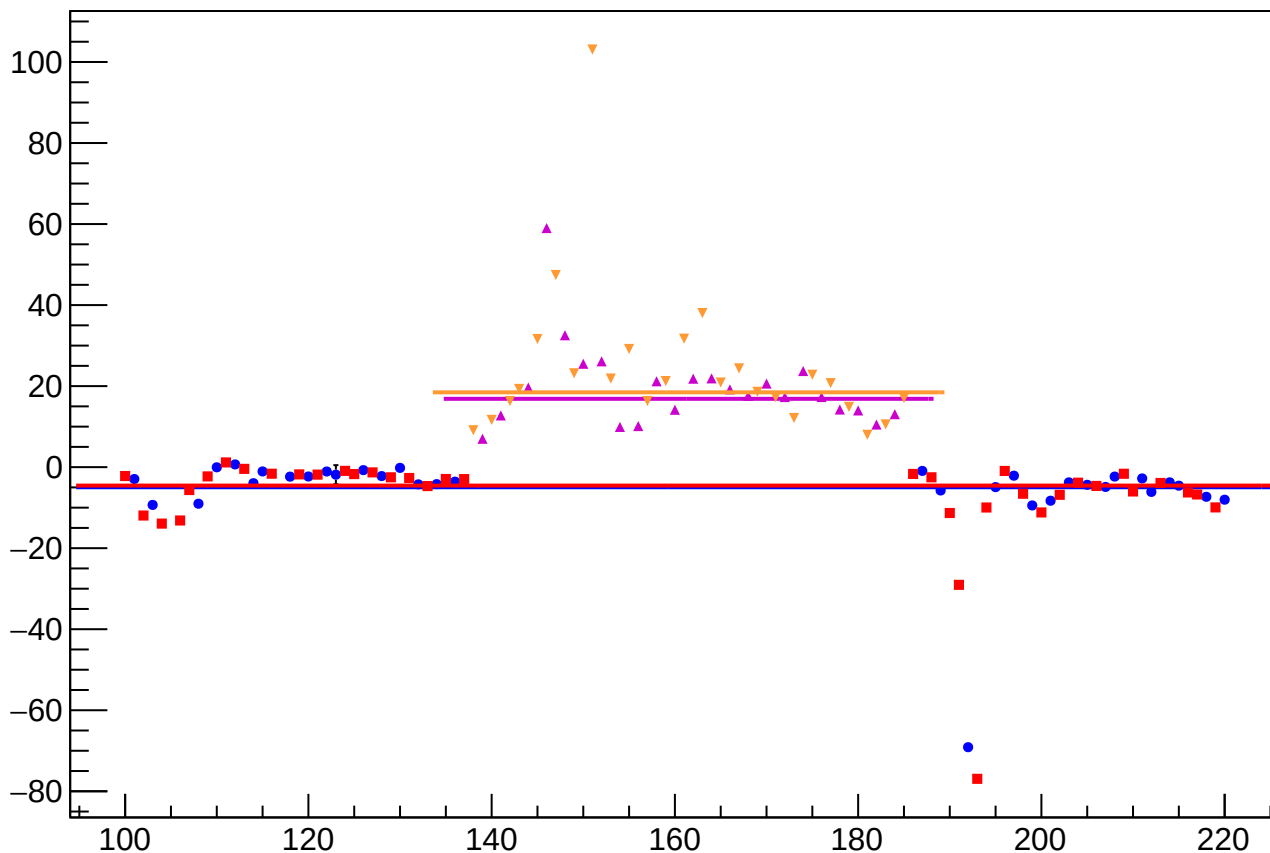
Right: 0.233 ± 0.032 $\chi^2/\text{NDF}: 8446.1/70$

In: 0.373 ± 0.026 $\chi^2/\text{NDF}: 10194.7/56$

Out: 0.370 ± 0.026 $\chi^2/\text{NDF}: 11563.6/61$

All: 0.372 ± 0.018 $\chi^2/\text{NDF}: 21758.3/118$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.958 ± 0.041 $\chi^2/\text{NDF}: 27452.5/33$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.547 ± 0.039 $\chi^2/\text{NDF}: 28983.1/36$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

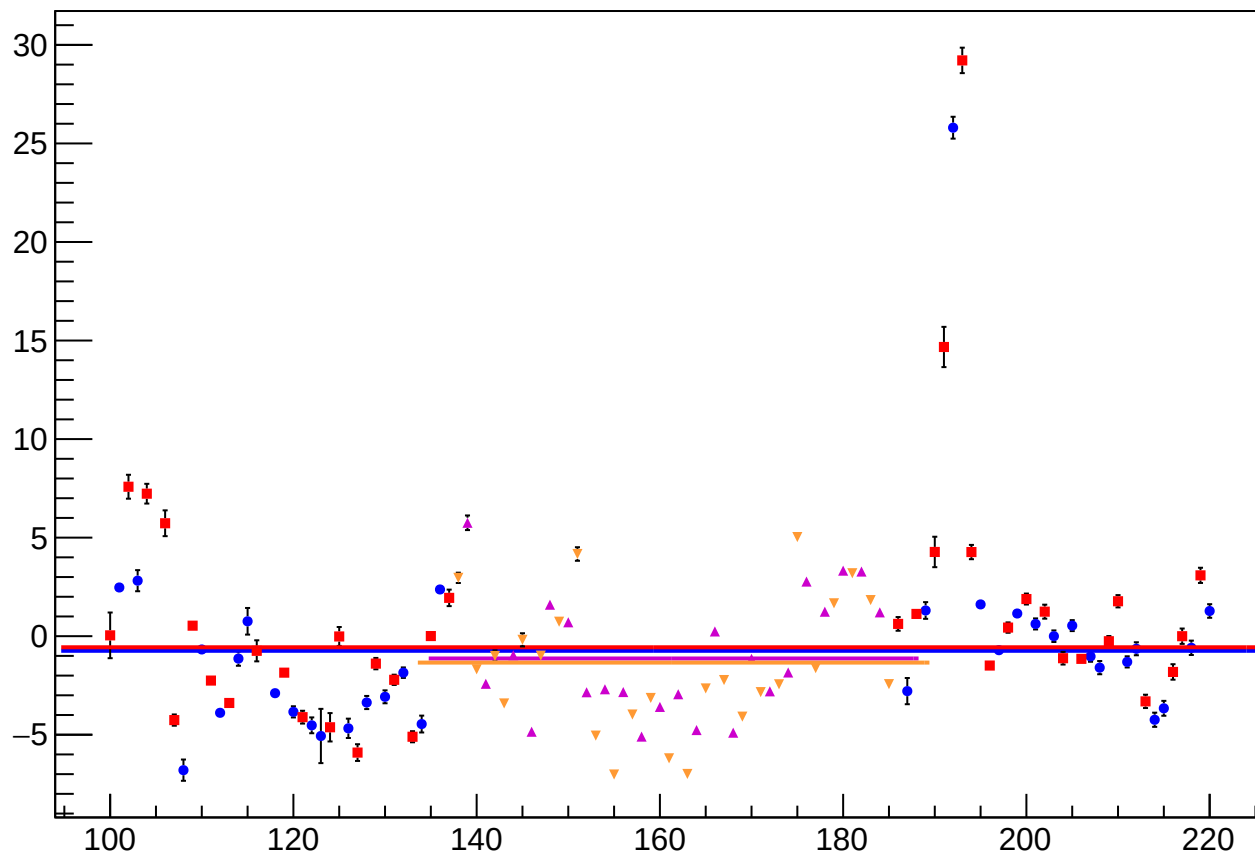
Right: -4.741 ± 0.028 $\chi^2/\text{NDF}: 56487.6/70$

In: 6.729 ± 0.028 $\chi^2/\text{NDF}: 215988.1/56$

Out: 6.732 ± 0.028 $\chi^2/\text{NDF}: 275984.5/61$

All: 6.731 ± 0.020 $\chi^2/\text{NDF}: 491972.6/118$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

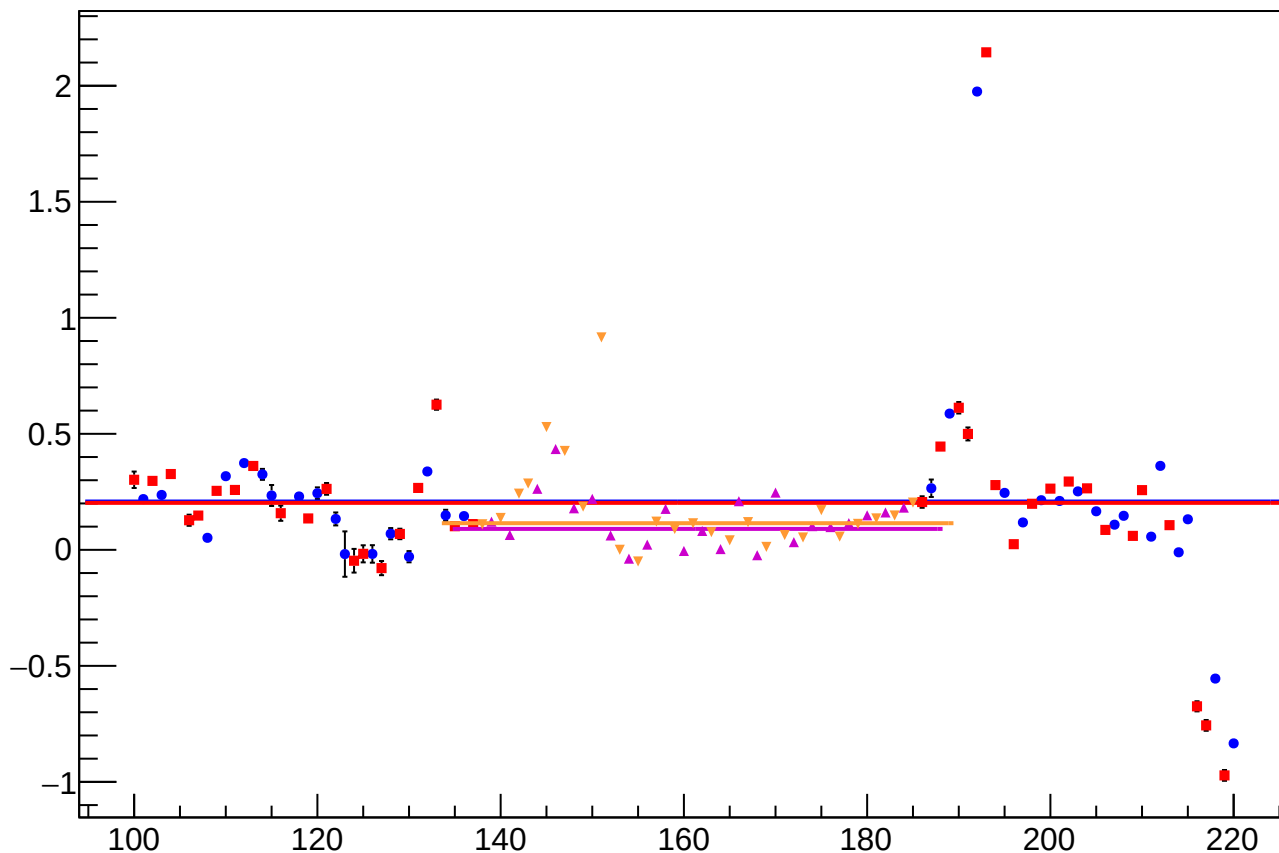


Right In: -0.742 ± 0.052 χ^2/NDF : 4106.7/33
 Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24
 Right Out: -0.563 ± 0.050 χ^2/NDF : 4694.8/36
 Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47
 Right: -0.649 ± 0.036 χ^2/NDF : 8807.6/70
 In: -1.012 ± 0.029 χ^2/NDF : 10853.8/56
 Out: -1.072 ± 0.030 χ^2/NDF : 12757.6/61

All: -1.042 ± 0.021 χ^2/NDF : 23613.5/118

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.208 $\pm$ 0.002 χ^2 /NDF: 15622.3/33

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.203 $\pm$ 0.002 χ^2 /NDF: 18199.5/36

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

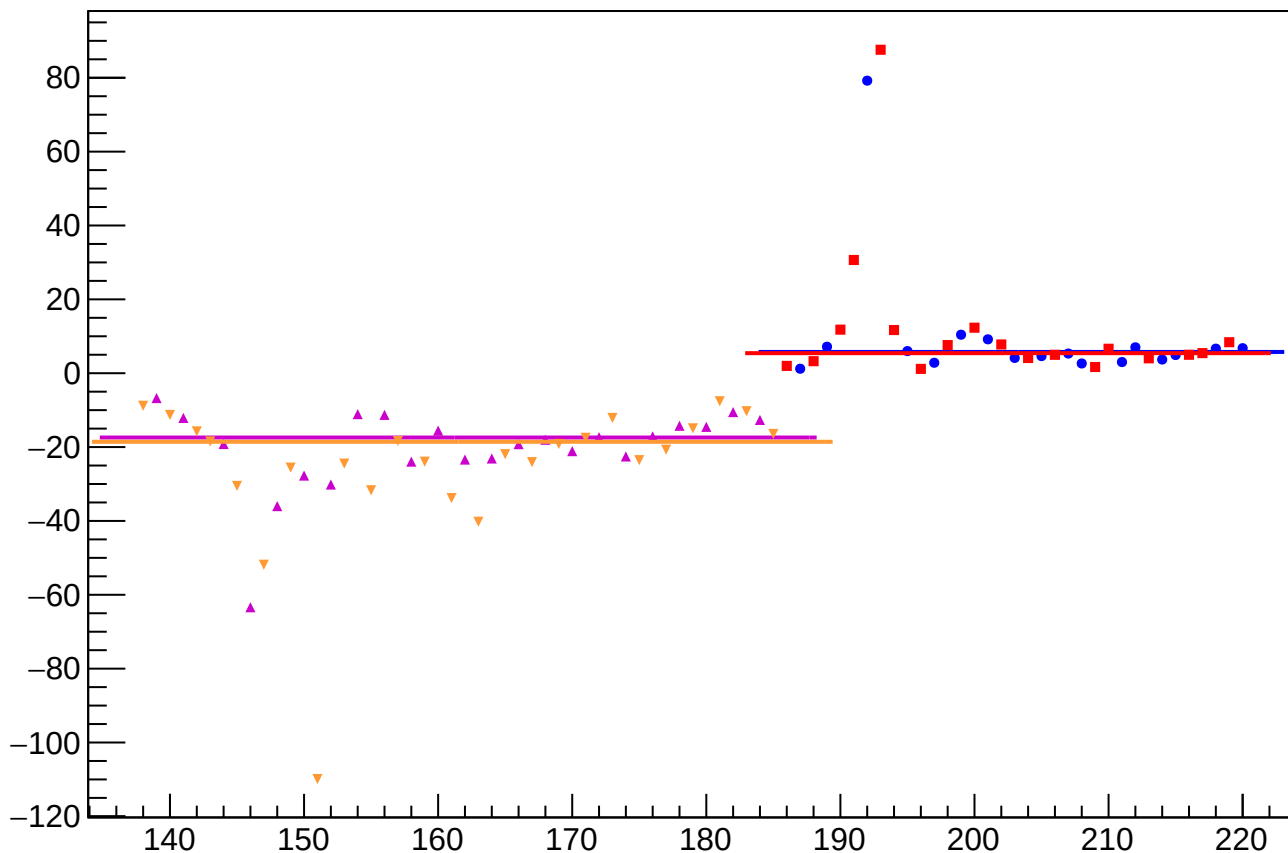
Right: 0.205 $\pm$ 0.002 χ^2 /NDF: 33824.9/70

In: 0.126 $\pm$ 0.001 χ^2 /NDF:21071.7/56

Out: 0.144 $\pm$ 0.001 χ^2 /NDF:23596.4/61

All: 0.135 $\pm$ 0.001 χ^2 /NDF: 44768.3/118

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.758 ± 0.046 χ^2/NDF : 25761.1/16

Left Out: -18.566 ± 0.040 χ^2/NDF : 86389.6/24

Right Out: 5.429 ± 0.046 χ^2/NDF : 26287.2/17

Left In: -17.414 ± 0.039 χ^2/NDF : 43504.1/22

Left: -17.979 ± 0.028 χ^2/NDF : 130314.7/47

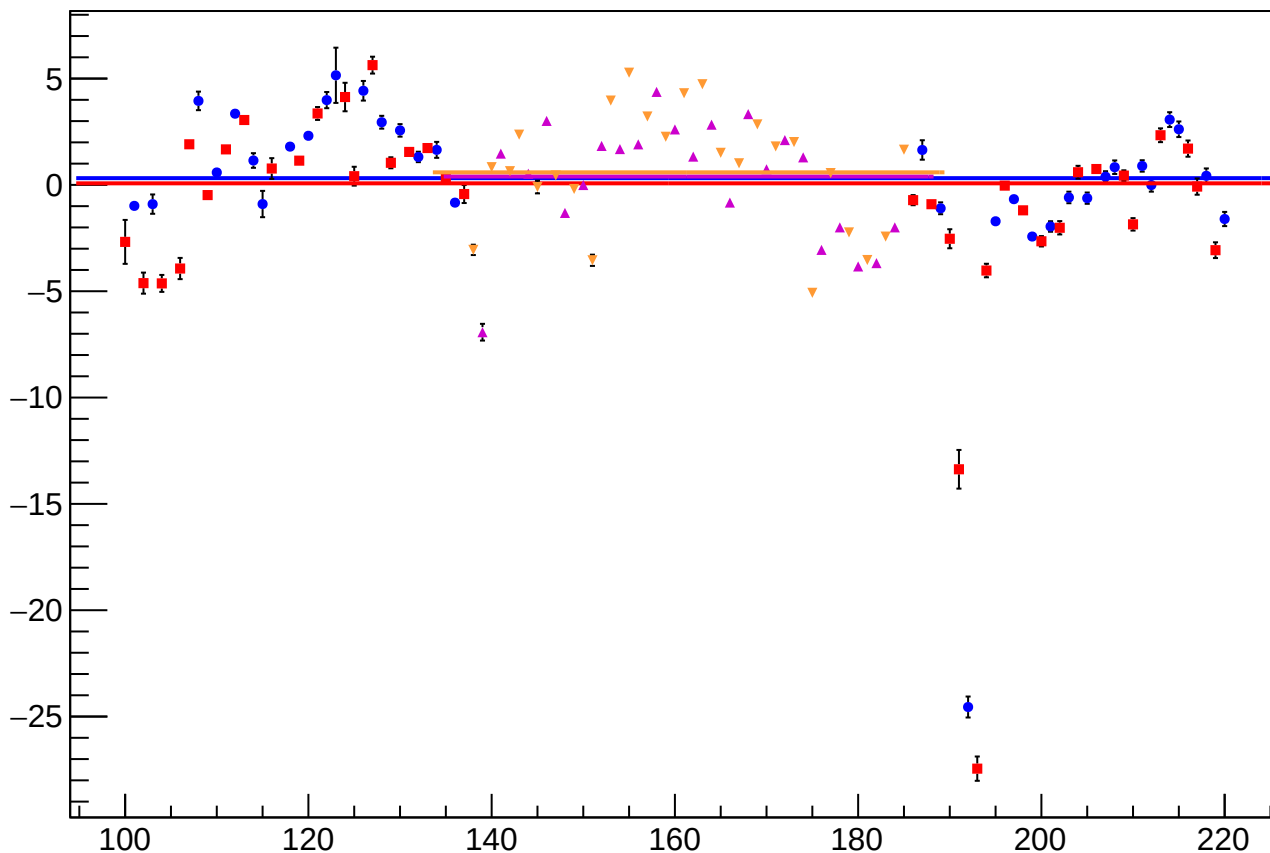
Right: 5.592 ± 0.033 χ^2/NDF : 52073.6/34

In: -7.731 ± 0.030 χ^2/NDF : 214522.0/39

Out: -8.181 ± 0.030 χ^2/NDF : 267675.9/42

All: -7.954 ± 0.021 χ^2/NDF : 482309.4/82

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.317 $\pm$ 0.046 χ^2 /NDF: 4003.4/33

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF:6796.5/24

Right Out: 0.074 $\pm$ 0.044 χ^2 /NDF: 4397.1/36

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF:6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

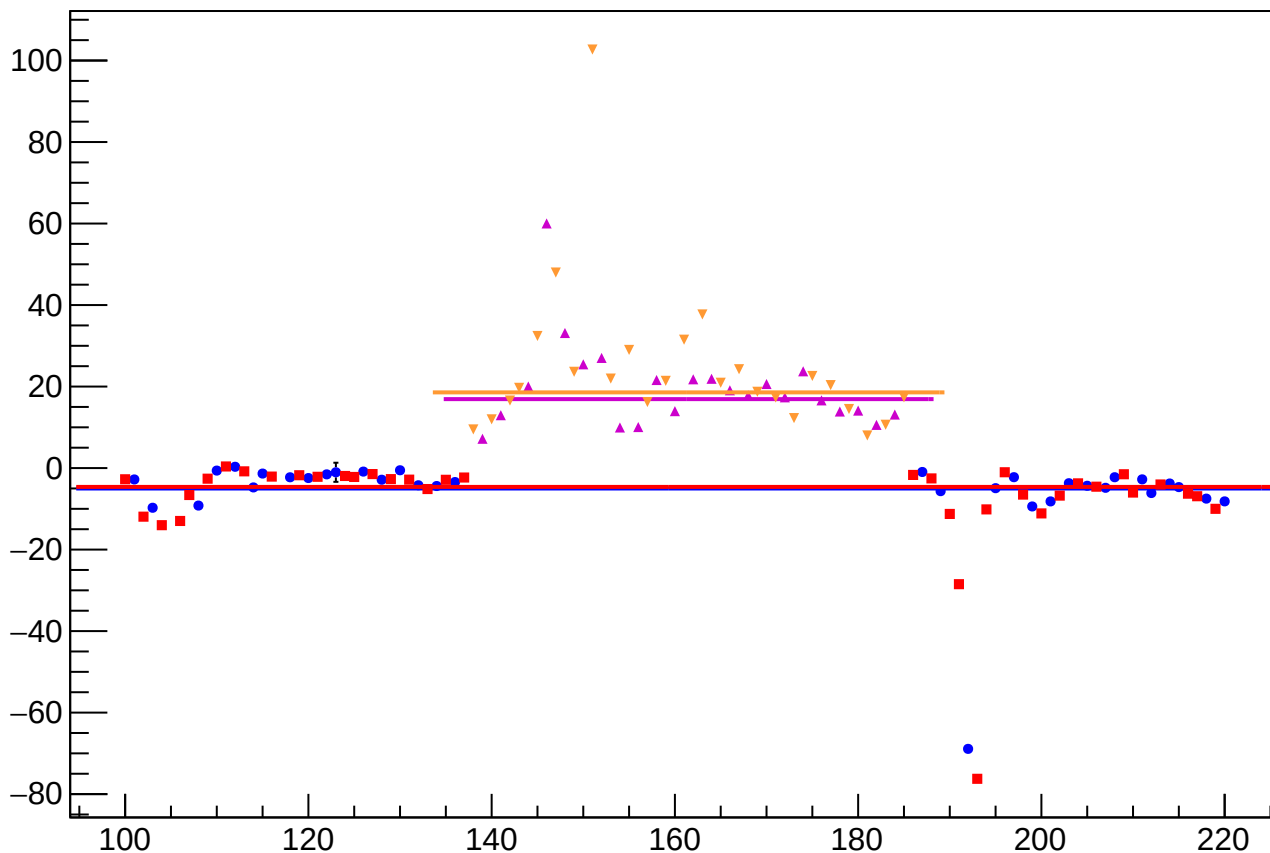
Right: 0.190 $\pm$ 0.032 χ^2 /NDF: 8414.9/70

In: 0.370 $\pm$ 0.026 χ^2 /NDF:10065.0/56

Out: 0.405 $\pm$ 0.027 χ^2 /NDF:11280.4/61

All: 0.387 $\pm$ 0.019 χ^2 /NDF: 21346.3/118

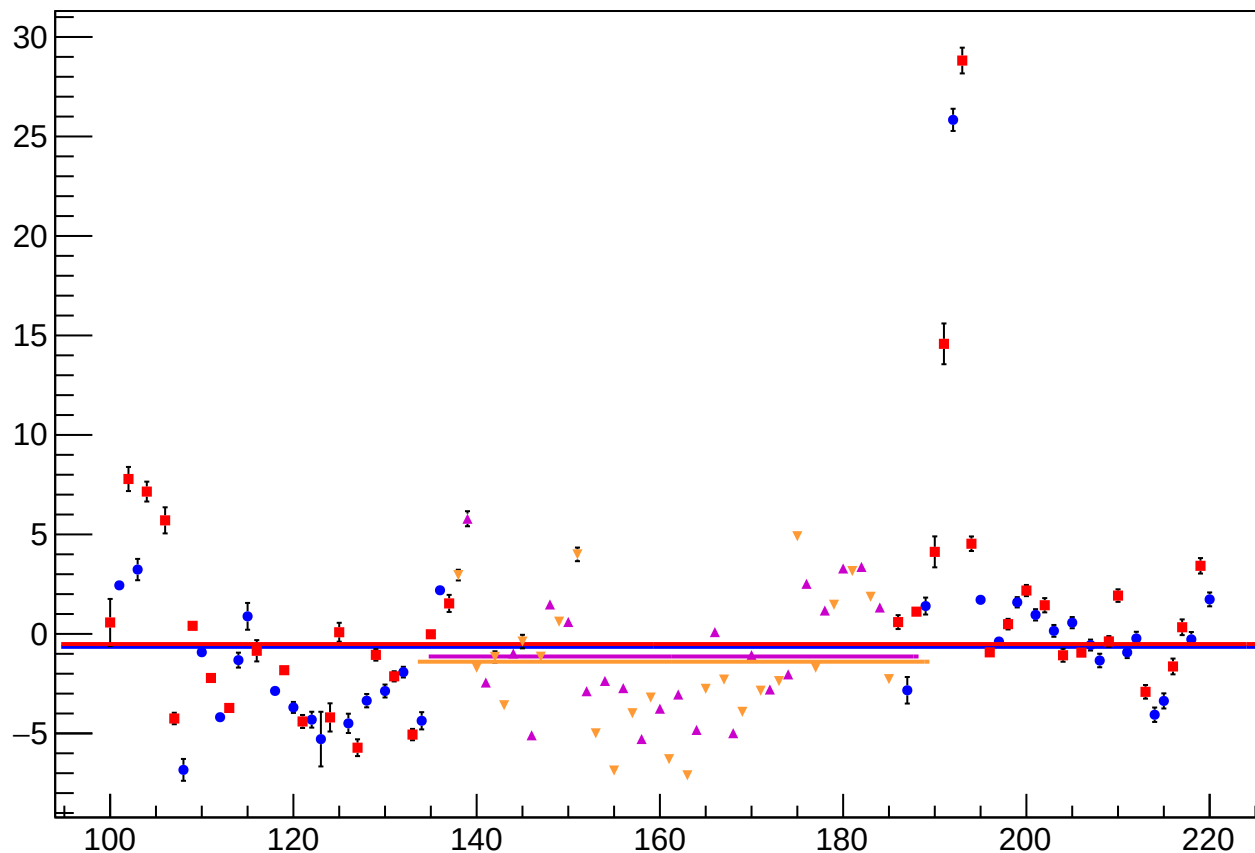
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.010+/-0.042 χ^2/NDF : 26808.0/33
 Left Out: 18.573+/-0.040 χ^2/NDF : 76029.9/24
 Right Out: -4.621+/-0.040 χ^2/NDF : 28114.2/36
 Left In: 16.919+/-0.039 χ^2/NDF : 40154.5/22

Left: 17.718+/-0.028 χ^2/NDF : 117057.3/47
 Right: -4.805+/-0.029 χ^2/NDF : 54967.8/70
 In: 6.768+/-0.029 χ^2/NDF : 214013.0/56
 Out: 6.798+/-0.028 χ^2/NDF : 272639.6/61
 All: 6.783+/-0.020 χ^2/NDF : 486653.2/118

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

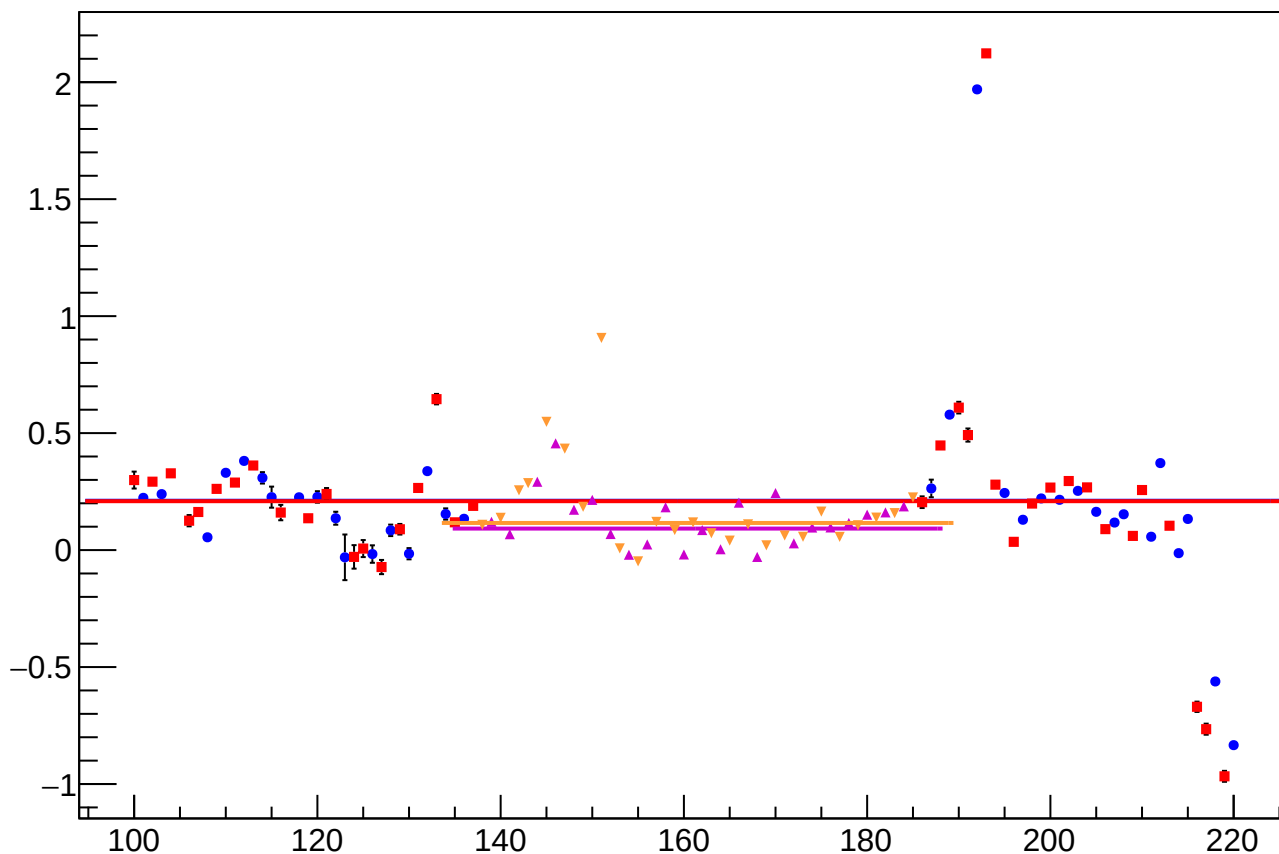


Right In: -0.649 ± 0.053 $\chi^2/\text{NDF}: 4095.2/33$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.510 ± 0.051 $\chi^2/\text{NDF}: 4634.0/36$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.577 ± 0.037 $\chi^2/\text{NDF}: 8732.9/70$
 In: -0.986 ± 0.029 $\chi^2/\text{NDF}: 10751.2/56$
 Out: -1.093 ± 0.030 $\chi^2/\text{NDF}: 12483.1/61$

All: -1.038 ± 0.021 $\chi^2/\text{NDF}: 23240.8/118$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.211 ± 0.002 $\chi^2/\text{NDF}: 15320.8/33$

Left Out: 0.116 ± 0.002 $\chi^2/\text{NDF}: 4463.0/24$

Right Out: 0.209 ± 0.002 $\chi^2/\text{NDF}: 17640.3/36$

Left In: 0.092 ± 0.002 $\chi^2/\text{NDF}: 3631.4/22$

Left: 0.103 ± 0.001 $\chi^2/\text{NDF}: 8207.3/47$

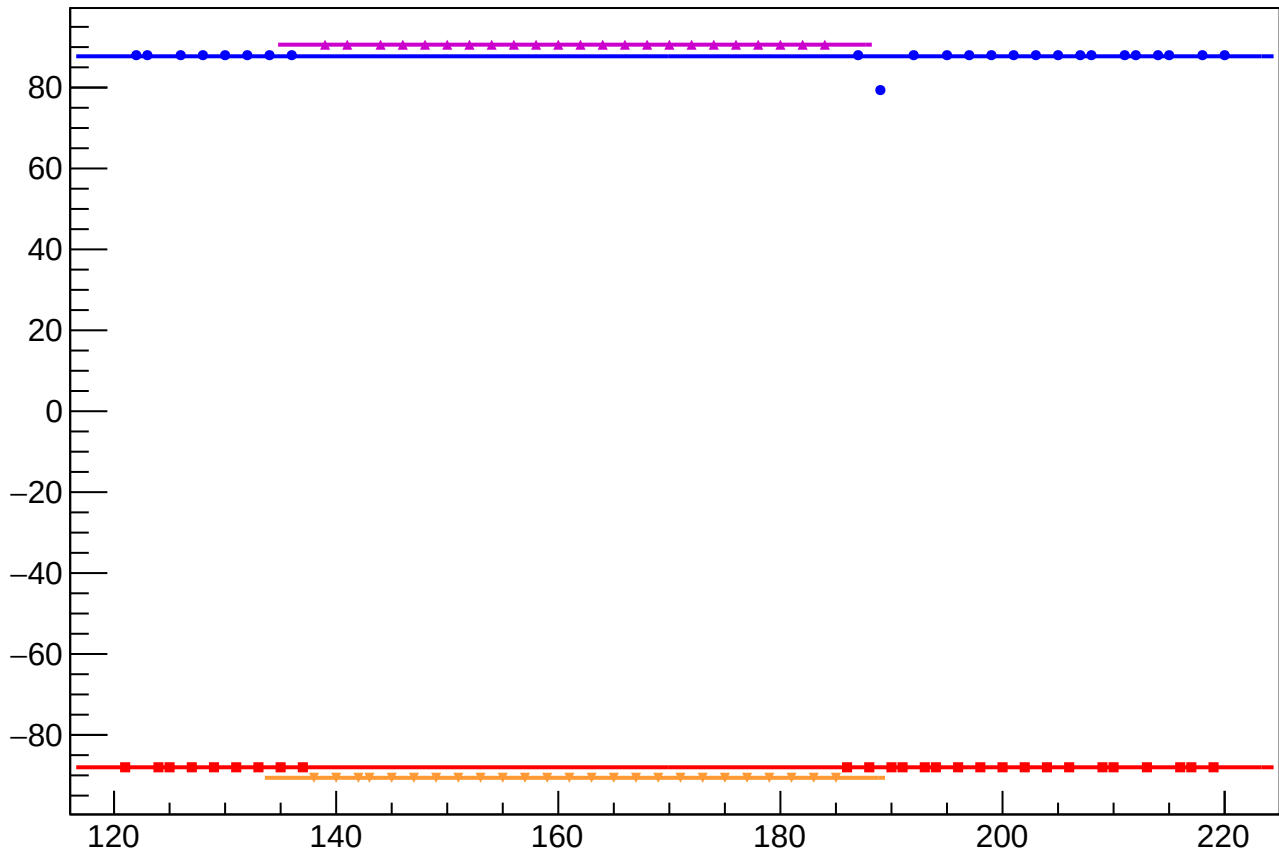
Right: 0.210 ± 0.002 $\chi^2/\text{NDF}: 32961.5/70$

In: 0.127 ± 0.001 $\chi^2/\text{NDF}: 20710.7/56$

Out: 0.147 ± 0.001 $\chi^2/\text{NDF}: 23159.9/61$

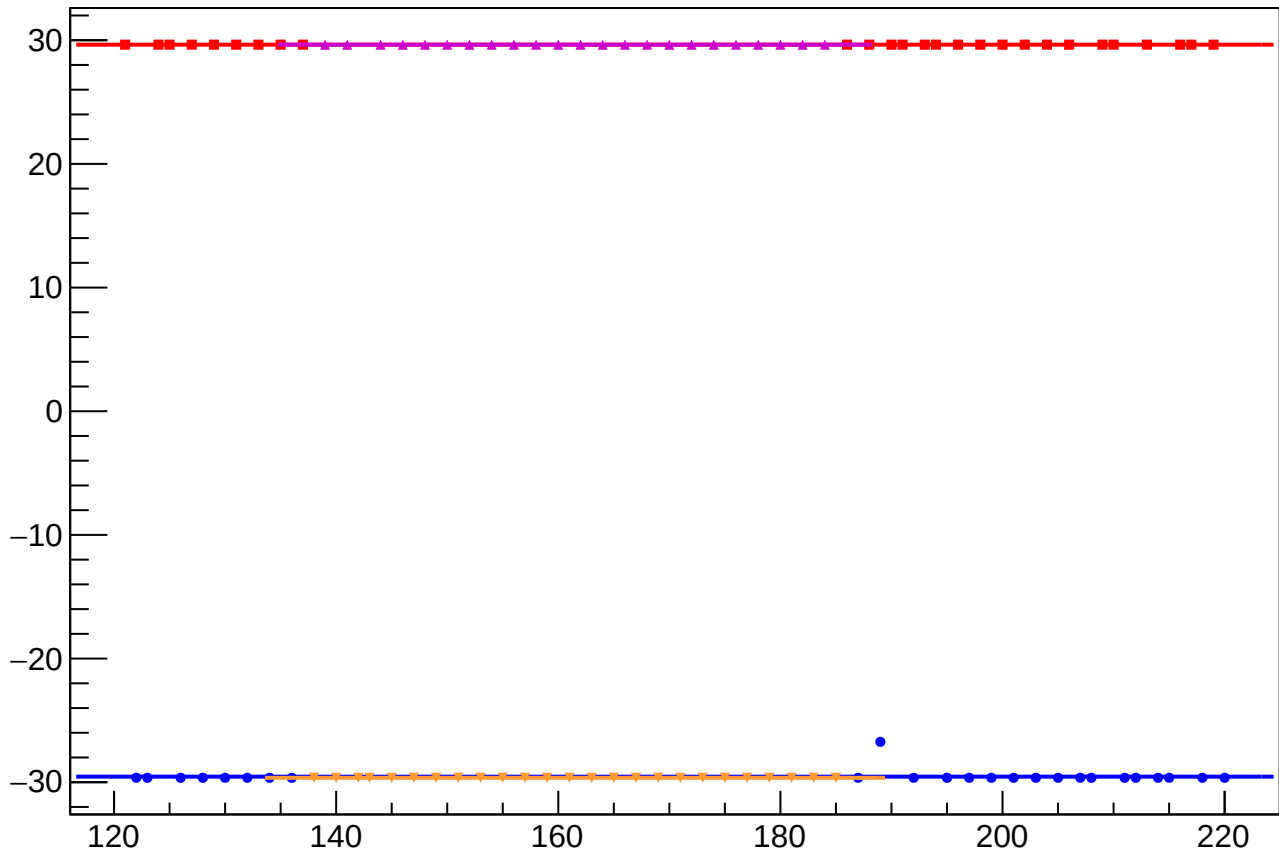
All: 0.137 ± 0.001 $\chi^2/\text{NDF}: 43978.2/118$

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.727+/-0.000	χ^2/NDF : 3675813988493141143605788576579584.0/24	Left: -2.410+/-0.000	χ^2/NDF : 30521213250005045
Left Out: -90.599+/-0.000	χ^2/NDF : 6053403.0/24	Right: 0.082+/-0.000	χ^2/NDF : 24784970428178947
Right Out: -88.001+/-0.000	χ^2/NDF : 1624472.9/26	In: 89.248+/-0.000	χ^2/NDF : 107038619001290587
Left In: 90.599+/-0.000	χ^2/NDF : 5932436.0/22	Out: -89.414+/-0.000	χ^2/NDF : 5881263651454965
		All: -1.256+/-0.000	χ^2/NDF : 5531689174123

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.549+/-0.000

χ^2/NDF : 417021306912621839562538037018624.0/24

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1635920.8/26

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

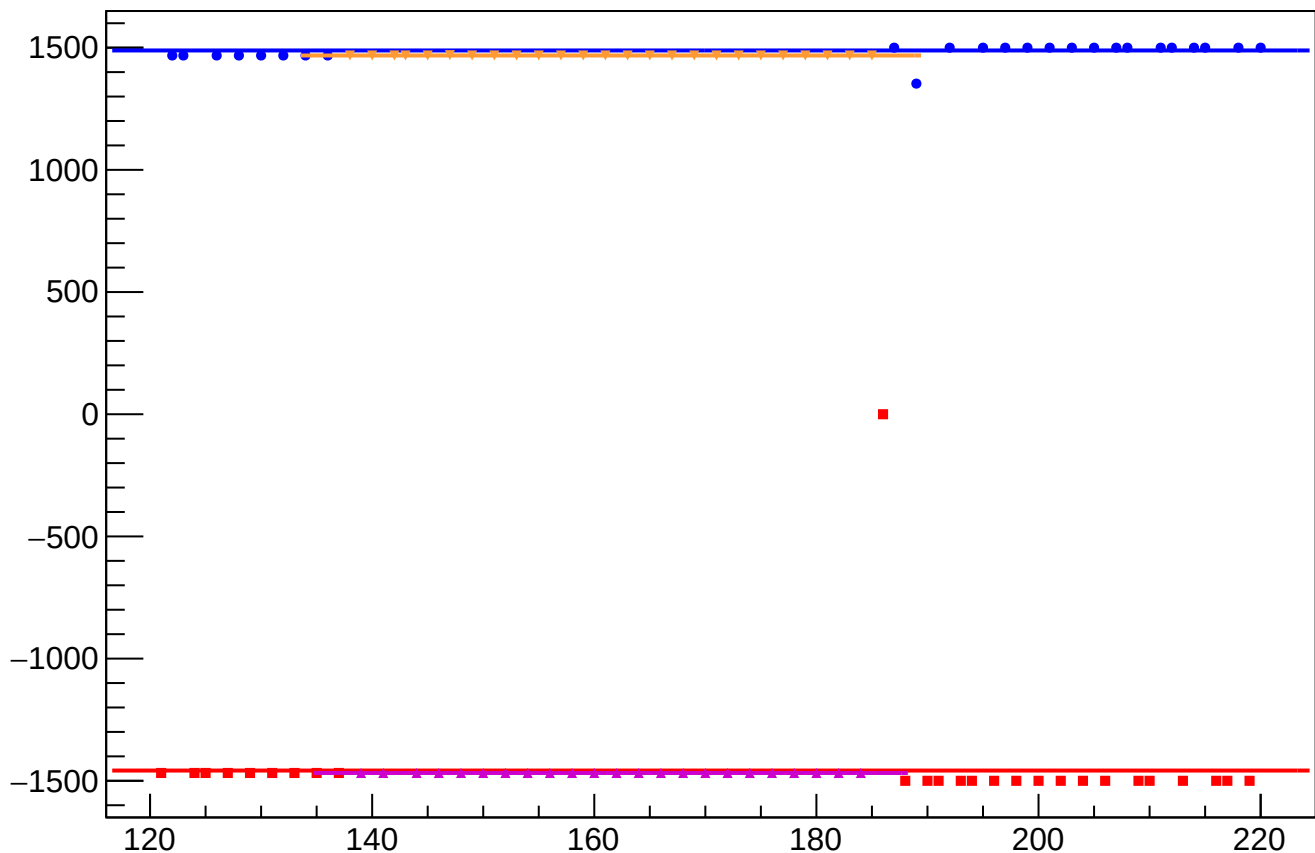
Right: -0.028+/-0.000 χ^2/NDF : 2811856310494989

In: 1.794+/-0.000 χ^2/NDF : 2985351169596893714

Out: -2.609+/-0.000 χ^2/NDF : 30607711855983623

All: -0.436+/-0.000 χ^2/NDF : 6079703705529

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1488.593+/-0.000

χ^2/NDF : 1241155365435570854758341071563915264.0/24

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1458.058+/-0.000

χ^2/NDF : 83007557534286417755834562519731535872.0/26

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/24

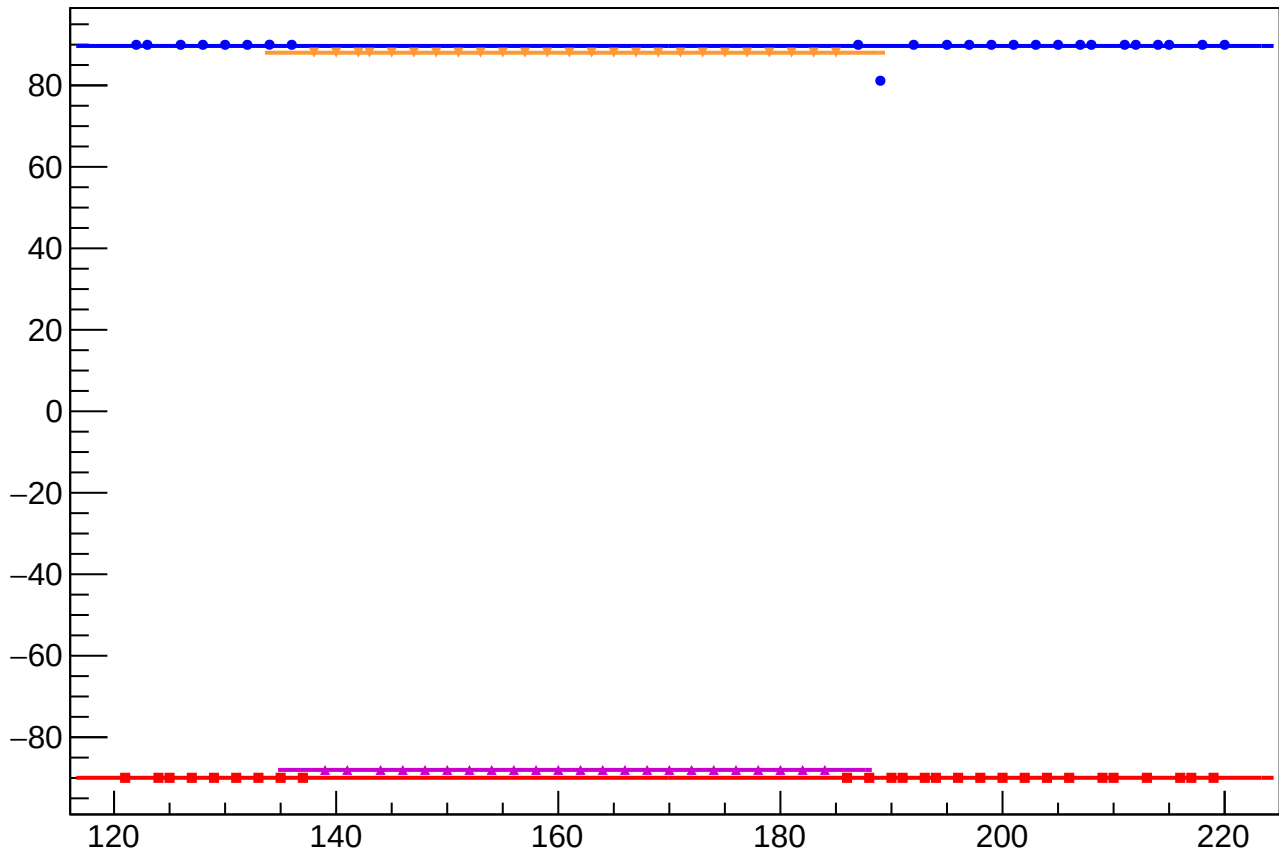
Right: 18.939+/-0.000 χ^2/NDF : 7052112975438499.0/24

In: -77.015+/-0.000 χ^2/NDF : 74490691115977276.0/24

Out: 133.757+/-0.000 χ^2/NDF : 7540174190585511.0/24

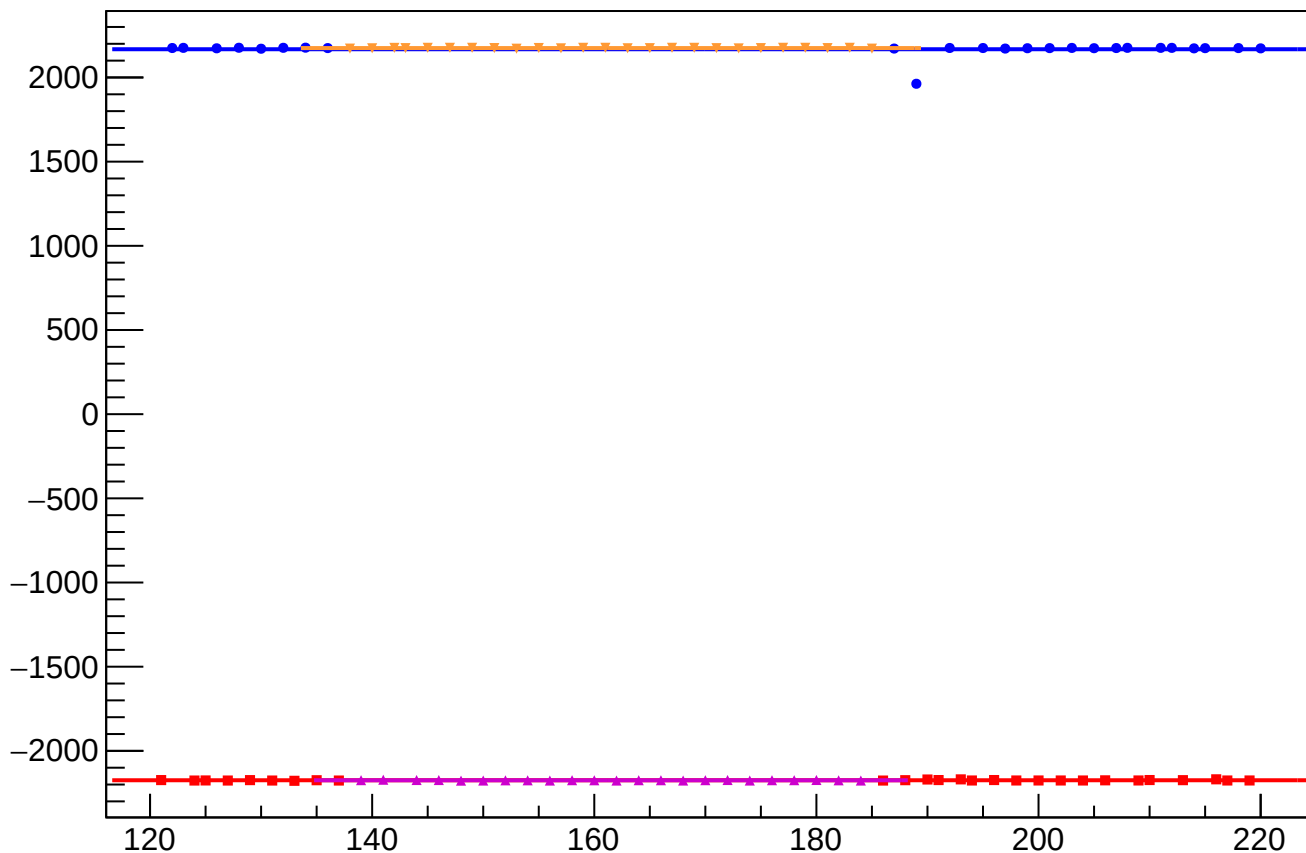
All: 29.755+/-0.000 χ^2/NDF : 1506620697189.0/24

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.680+/-0.000	χ^2/NDF : 3841667509169872116171761594138624.0/24	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: 0.084+/-0.000	χ^2/NDF : 25900629384492871
Right Out: -89.959+/-0.000	χ^2/NDF : 4758913.9/26	In: -4.418+/-0.000	χ^2/NDF : 269085042786971995
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 6.863+/-0.000	χ^2/NDF : 275890200353072769
		All: 1.296+/-0.000	χ^2/NDF : 54717989458614

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2167.686+/-0.000

χ^2/NDF : 2218076605956935246611649696511295488.0/24

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.538+/-0.000

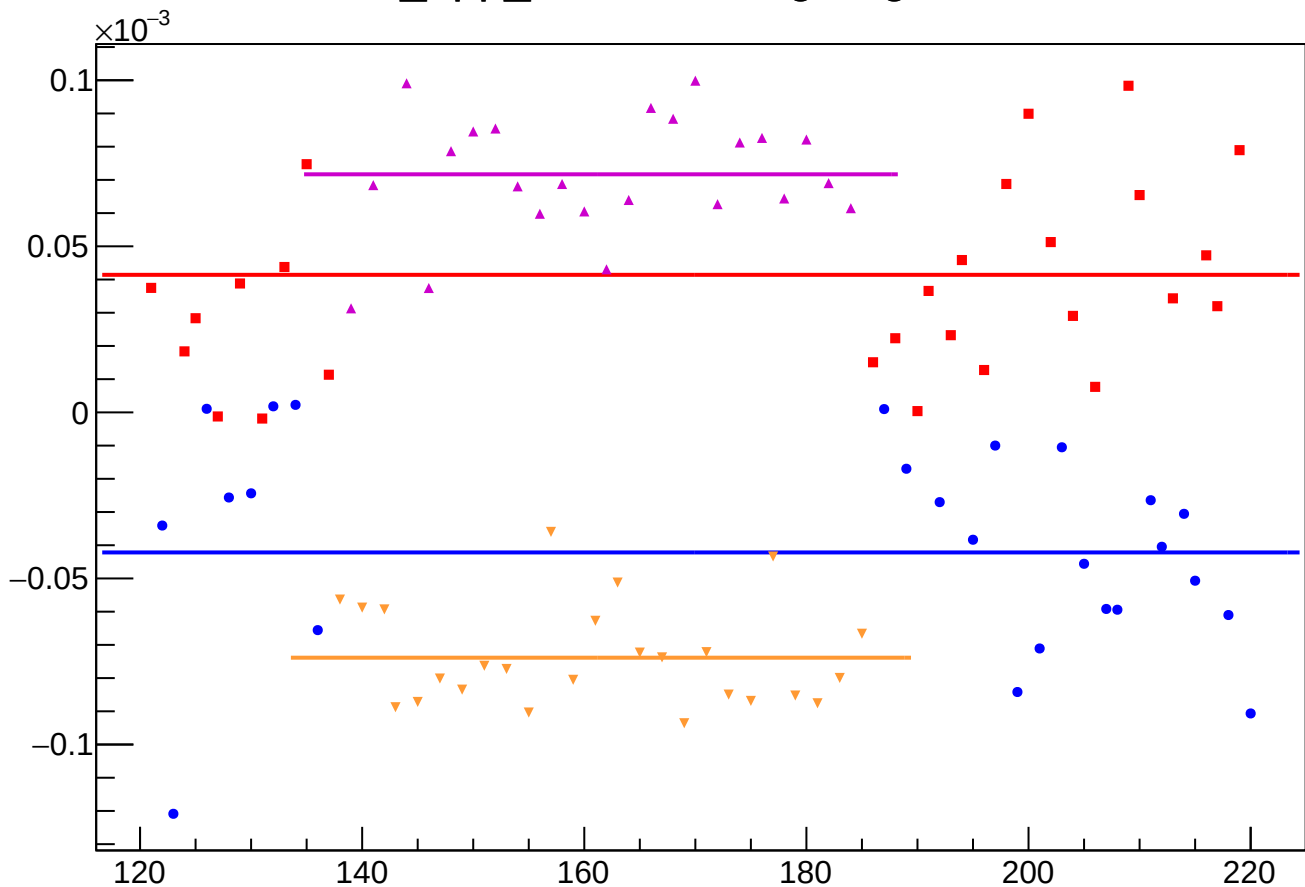
χ^2/NDF : 7287483634271028865642845219848192.0/26

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

All: 32.002+/-0.000 χ^2/NDF : 3272200366013

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 1080023758987886891892736.0/24

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1247090835950715807989760.0/26

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: -0.000+/-0.000

χ^2/NDF : 7933441807319314

In: 0.000+/-0.000

χ^2/NDF : 1268549782588260405

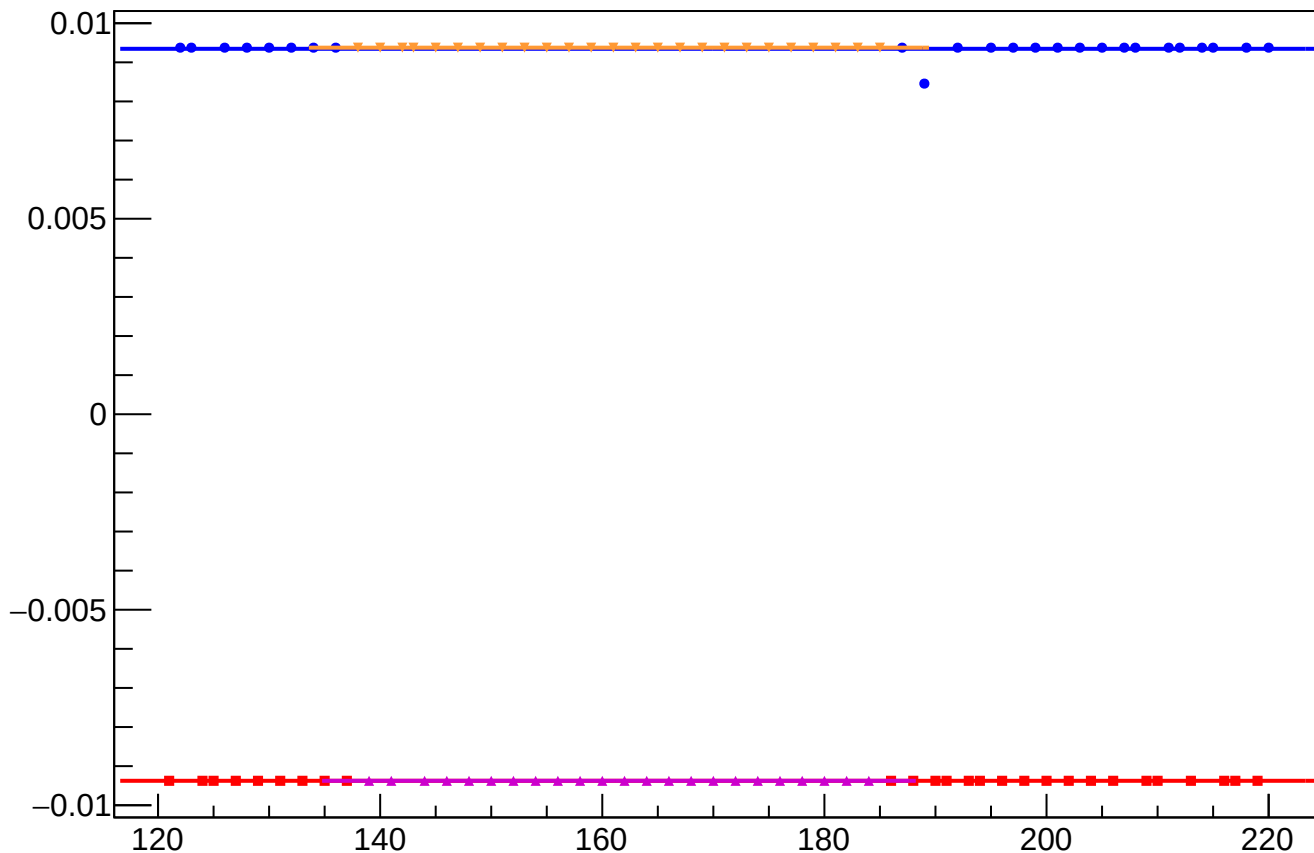
Out: -0.000+/-0.000

χ^2/NDF : 13270700524442328

All: -0.000+/-0.000

χ^2/NDF : 2864729818469

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41718030243482207992676352.0/24

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: 0.000+/-0.000

χ^2/NDF : 28129283721739212

In: -0.001+/-0.000

χ^2/NDF : 298648937874902502

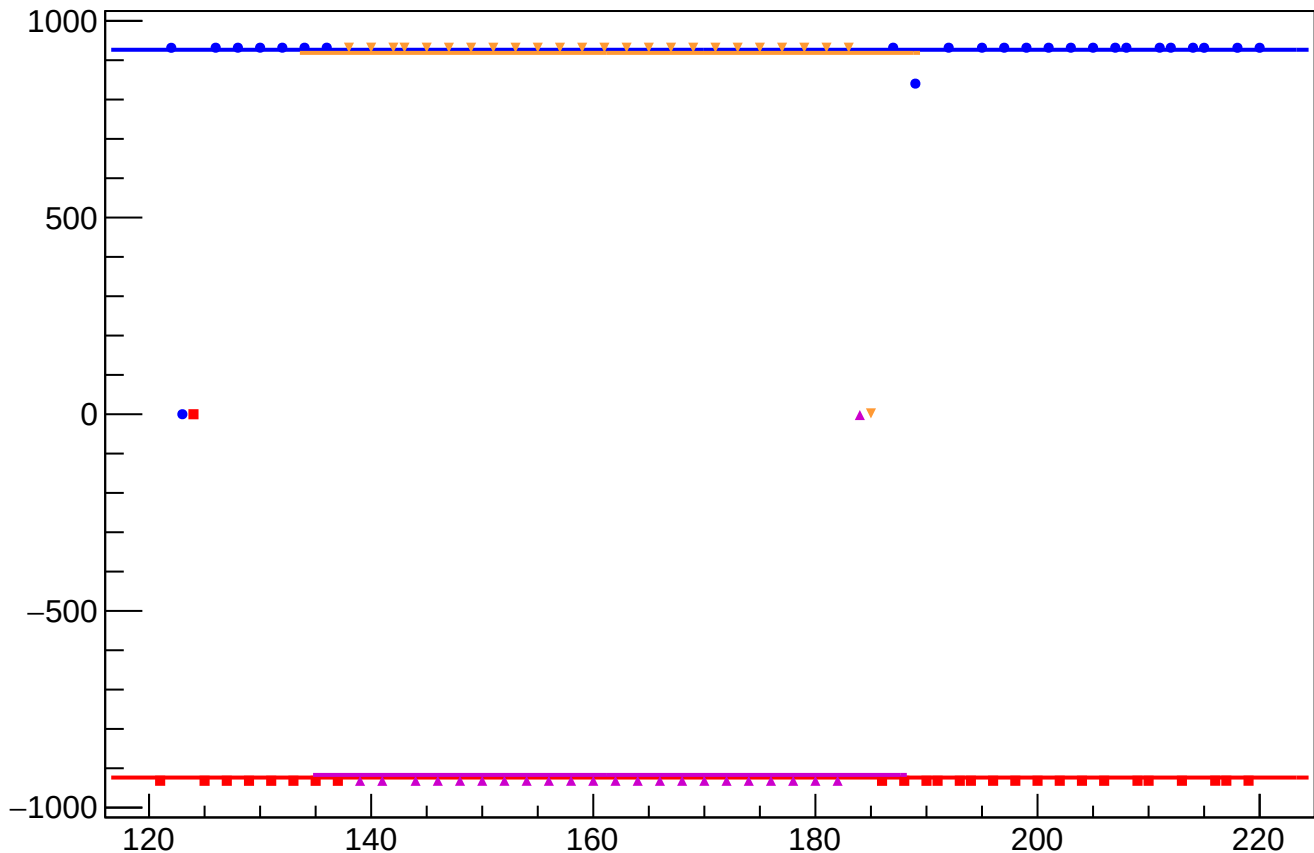
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

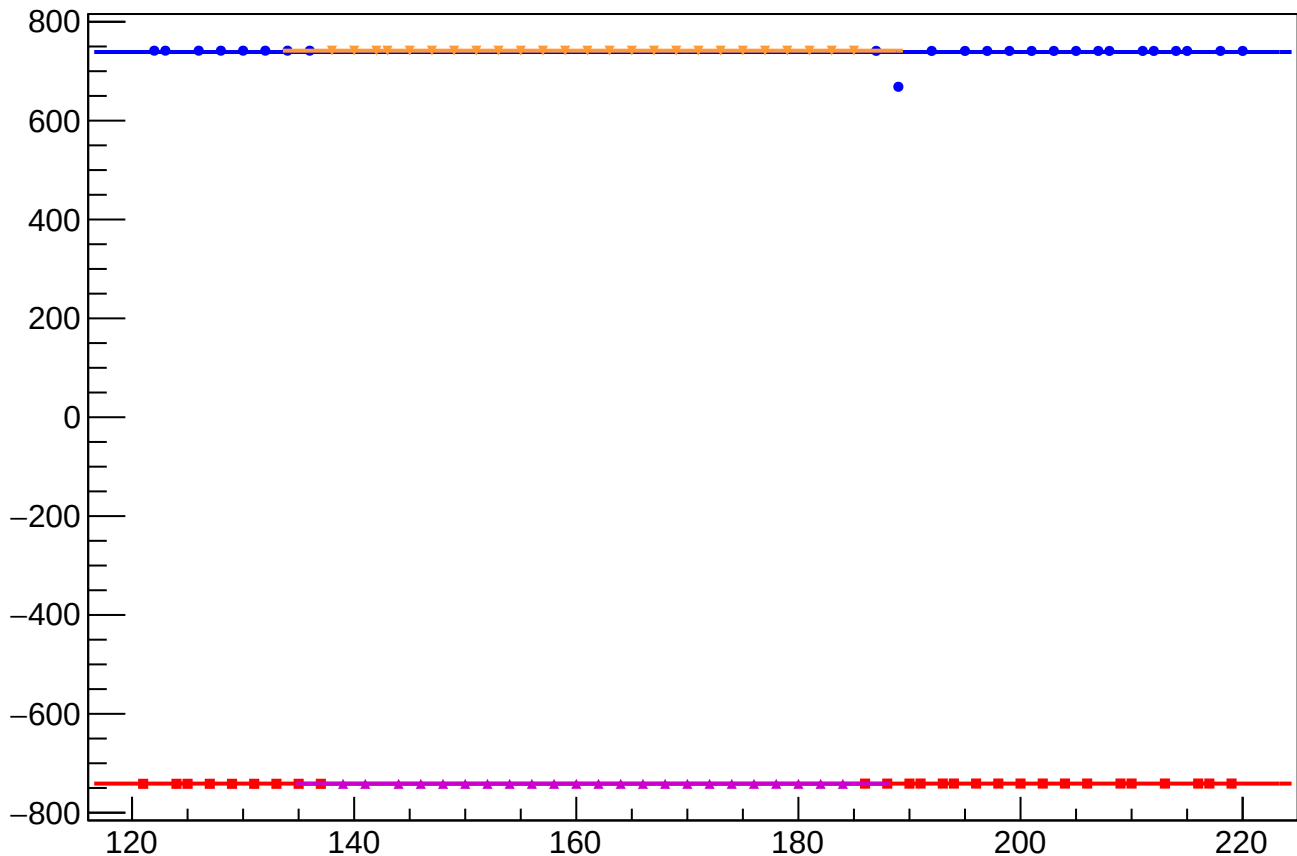
χ^2/NDF : 60820216822120

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



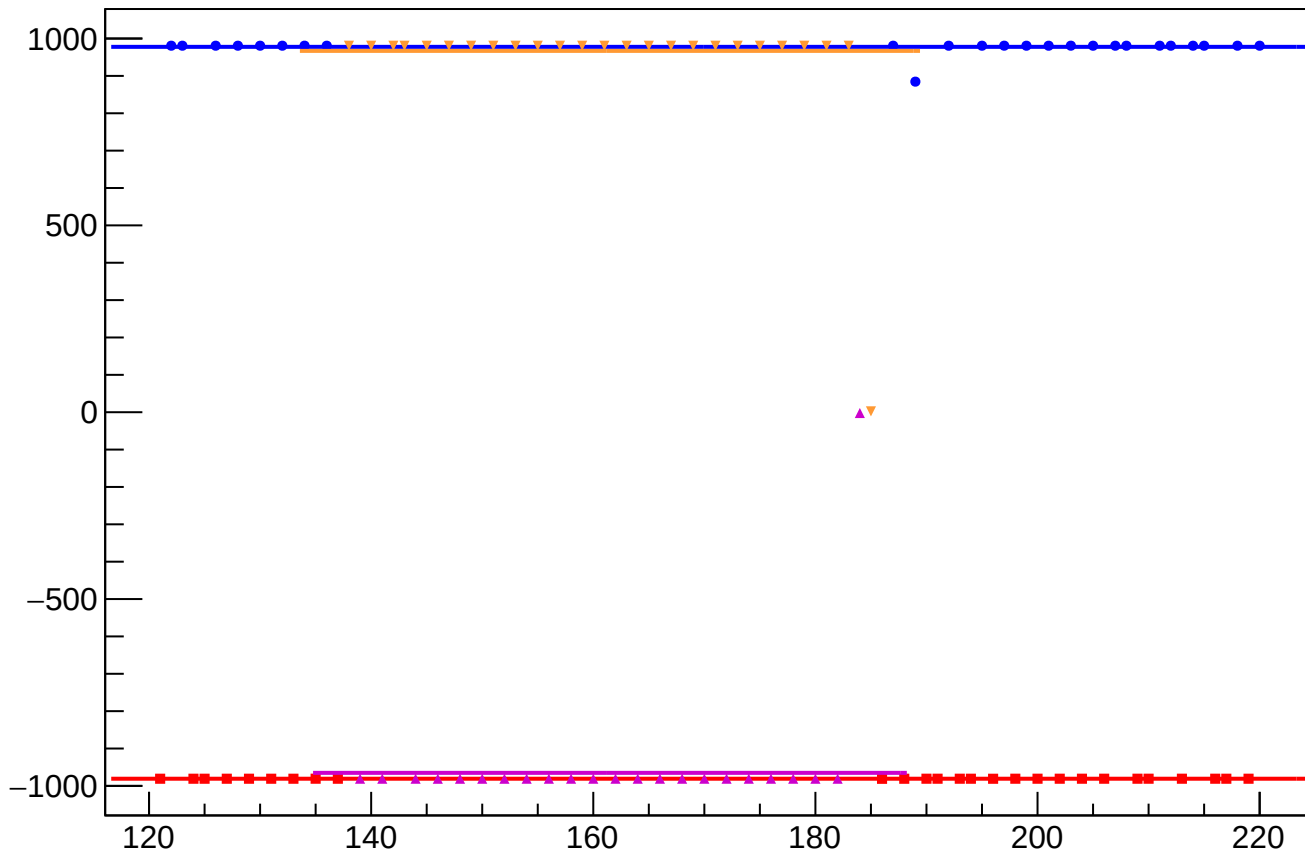
Right In: 926.550+/-0.000 χ^2/NDF : 3853638281101893759593180168603041792.0/24
 Left Out: 918.645+/-0.000 χ^2/NDF : 230034987040560849397524325213363224096.0/24
 Right Out: -923.623+/-0.000 χ^2/NDF : 12047653448681008205248449089676247040.0/26
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: 15.326+/-0.000 χ^2/NDF : 5943392671445

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.834+/-0.000	χ^2/NDF : 260608922485352236124700295200505856.0/24	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: 0.691+/-0.000	χ^2/NDF : 17579826880763954
Right Out: -741.140+/-0.000	χ^2/NDF : 62390899526182309743103892783104.0/26	In: -45.057+/-0.000	χ^2/NDF : 18673920497507151
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 65.430+/-0.000	χ^2/NDF : 19145763386983709
	All: 10.912+/-0.000		χ^2/NDF : 3803117139752

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.760+/-0.000

χ^2/NDF : 456717040624128552004250771283509248.0/24

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.816+/-0.000

χ^2/NDF : 3536932158628458017817819611136.0/26

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

Left: 26.619+/-0.000 χ^2/NDF : 35227684296675597

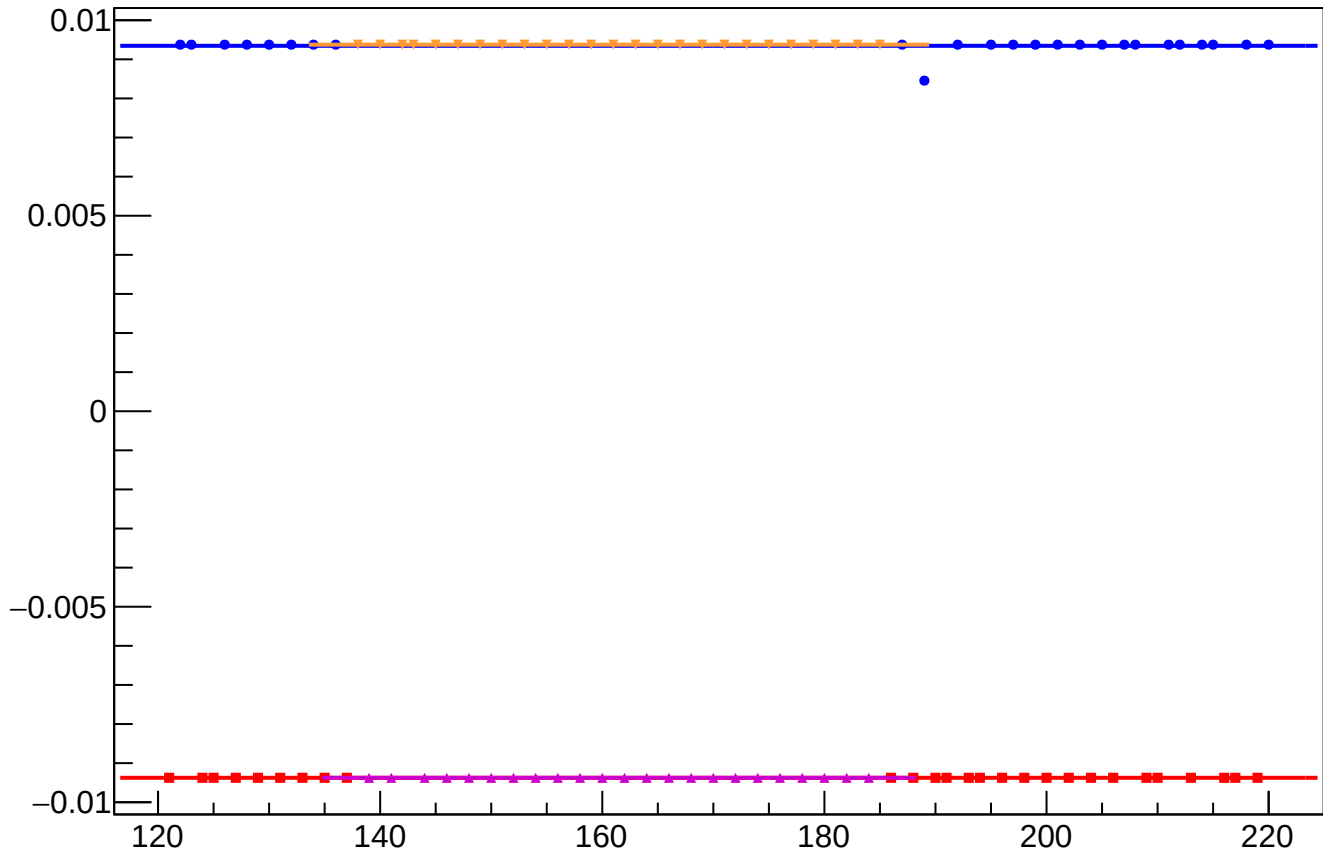
Right: 0.913+/-0.000 χ^2/NDF : 30788436529909446

In: -51.048+/-0.000 χ^2/NDF : 32439084384074452

Out: 78.770+/-0.000 χ^2/NDF : 33296459253255371

All: 14.713+/-0.000 χ^2/NDF : 6602750842630

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41718030243482207992676352.0/24

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: 0.000+/-0.000

χ^2/NDF : 28129283721739212

In: -0.001+/-0.000

χ^2/NDF : 298648937874902502

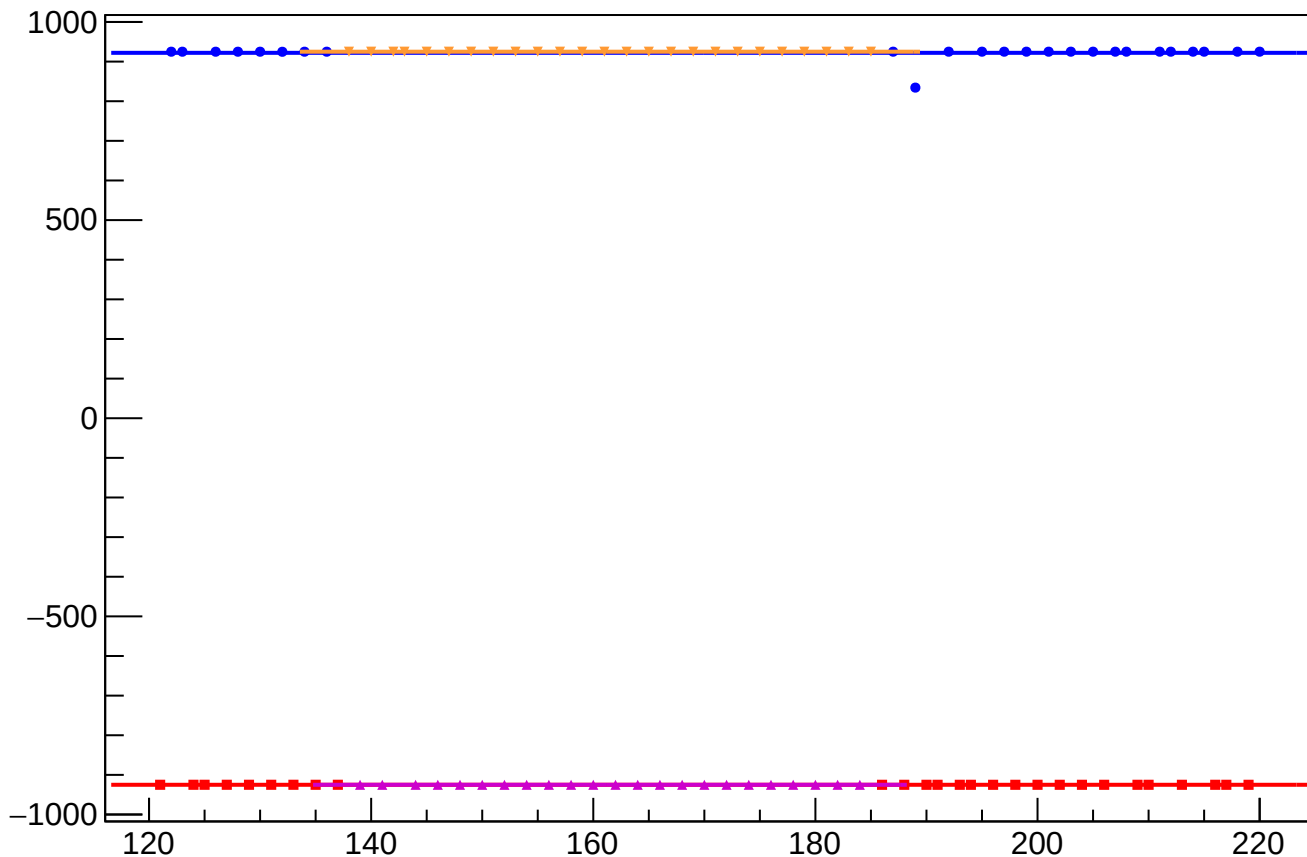
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

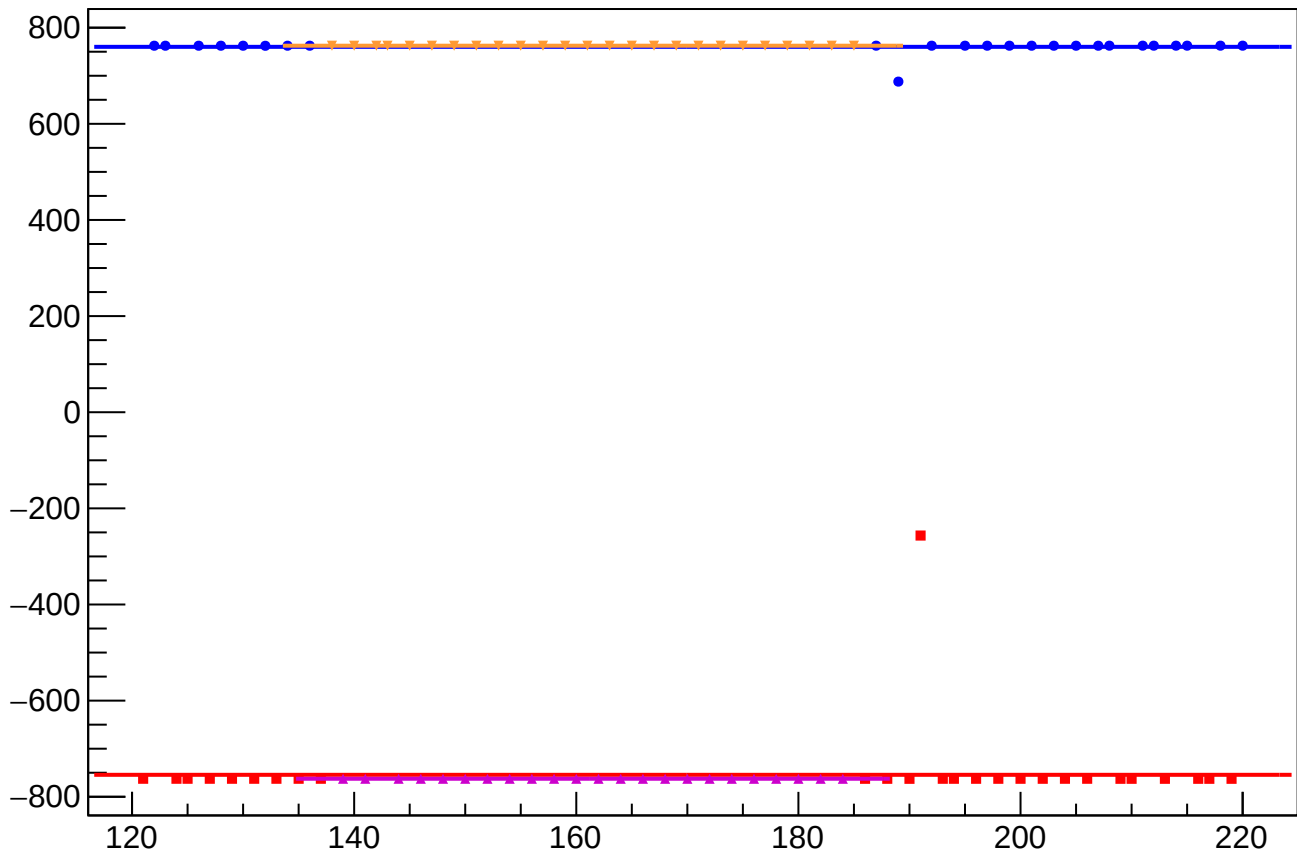
χ^2/NDF : 60820216822120

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 922.123 ± 0.000 $\chi^2/\text{NDF}: 405854276379394183003829941426978816.0/24$
 Left Out: 924.983 ± 0.000 $\chi^2/\text{NDF}: 1041831865443970524066476982272.0/24$
 Right Out: -925.000 ± 0.000 $\chi^2/\text{NDF}: 946095739731195692794521845760.0/26$
 Left In: -924.983 ± 0.000 $\chi^2/\text{NDF}: 888539224321534960792212865024.0/22$
 All: 13.612 ± 0.000 $\chi^2/\text{NDF}: 5920789011289$

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 760.166+/-0.000

χ^2/NDF : 275739223138804765774200883296337920.0/24

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -754.326+/-0.000

χ^2/NDF : 6548638176054627650031123488097435648.0/26

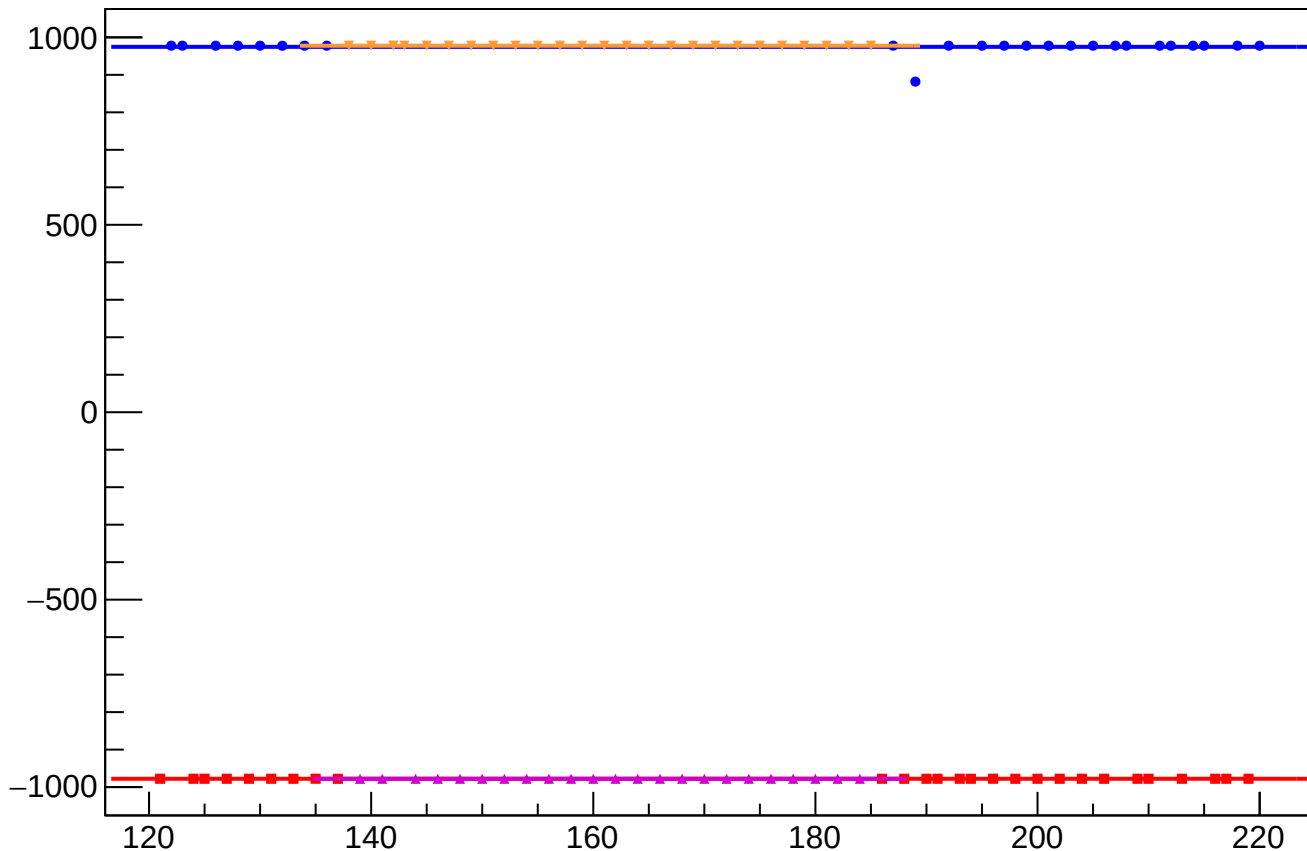
Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

All: 13.118+/-0.000

χ^2/NDF : 4009898256392

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.723+/-0.000

χ^2/NDF : 453611887330466754850376086649307136.0/24

Left Out: 977.738+/-0.000

χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.758+/-0.000

χ^2/NDF : 1860431267044362431091676545024.0/26

Left In: -977.735+/-0.000

χ^2/NDF : 976503887937607318263199432704.0/22

Left: 26.015+/-0.000 χ^2/NDF : 35546397150663117

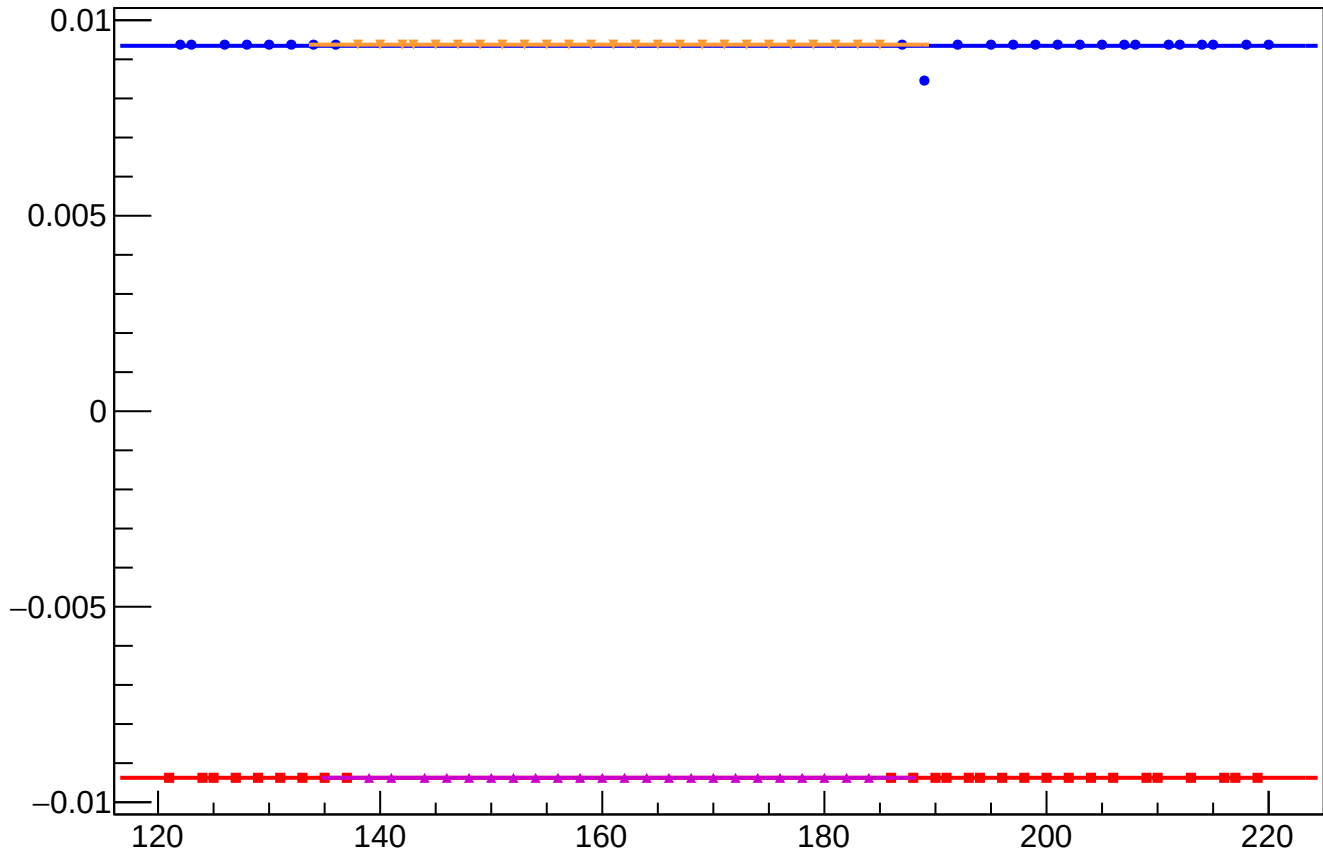
Right: 0.916+/-0.000 χ^2/NDF : 30597085714778388

In: -59.166+/-0.000 χ^2/NDF : 32484207142858480

Out: 86.041+/-0.000 χ^2/NDF : 33304843036028333

All: 14.390+/-0.000 χ^2/NDF : 6615433934477

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41718030243482207992676352.0/24

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

Right: 0.000+/-0.000

In: -0.001+/-0.000

Out: 0.001+/-0.000

All: 0.000+/-0.000

χ^2/NDF : 326809514411447718

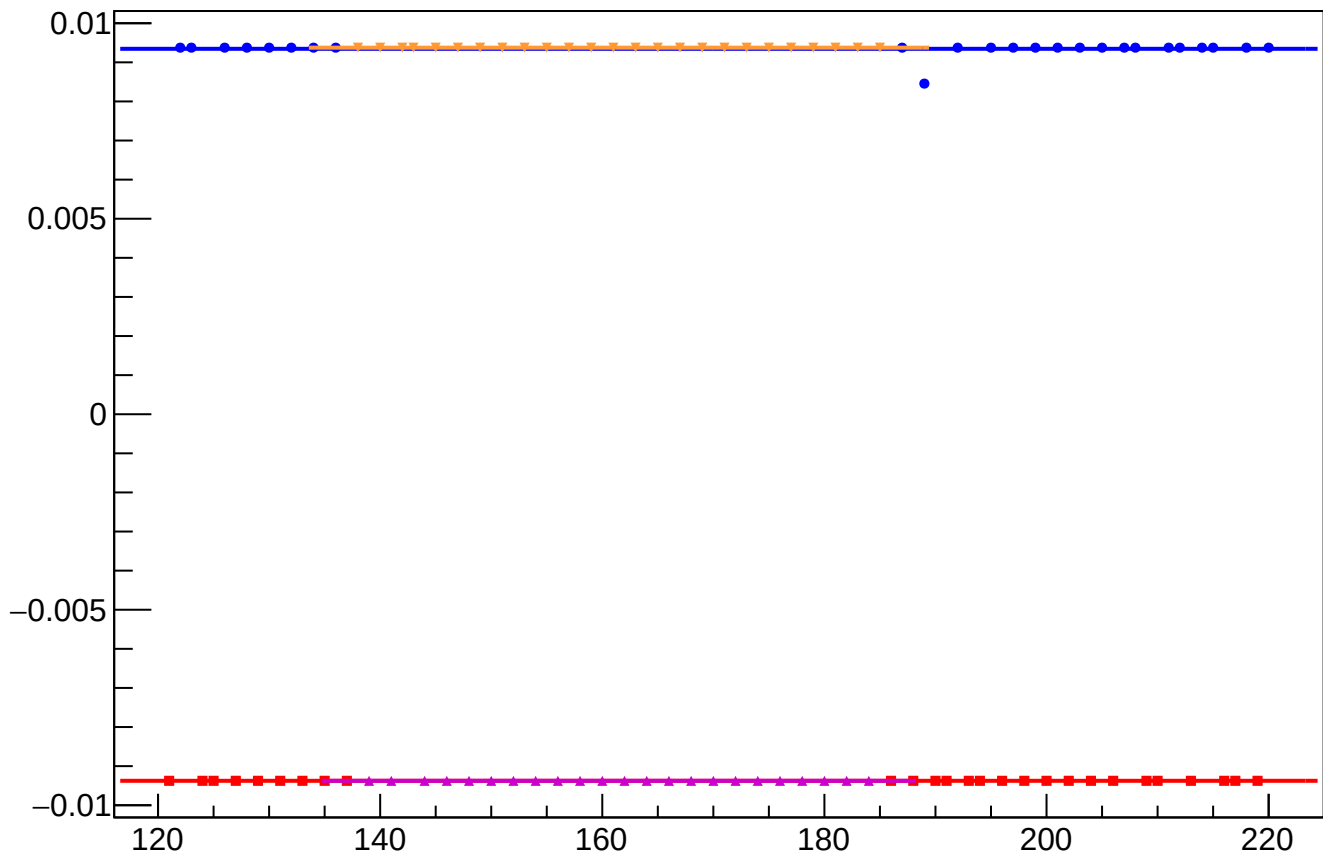
χ^2/NDF : 28129283721739212

χ^2/NDF : 298648937874902502

χ^2/NDF : 306193814974365545

χ^2/NDF : 60820216822120

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41718030243482207992676352.0/24

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: 0.000+/-0.000

χ^2/NDF : 28129283721739212

In: -0.001+/-0.000

χ^2/NDF : 298648937874902502

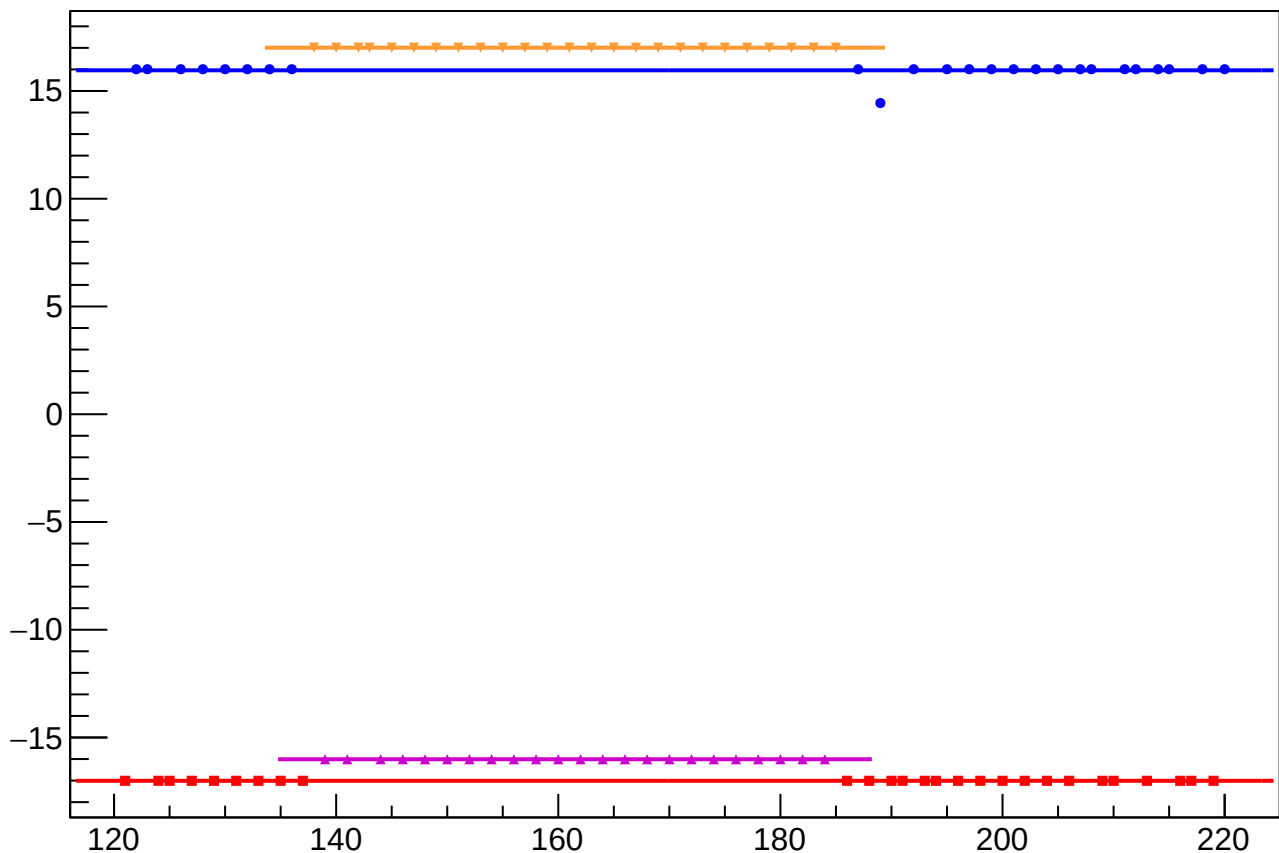
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

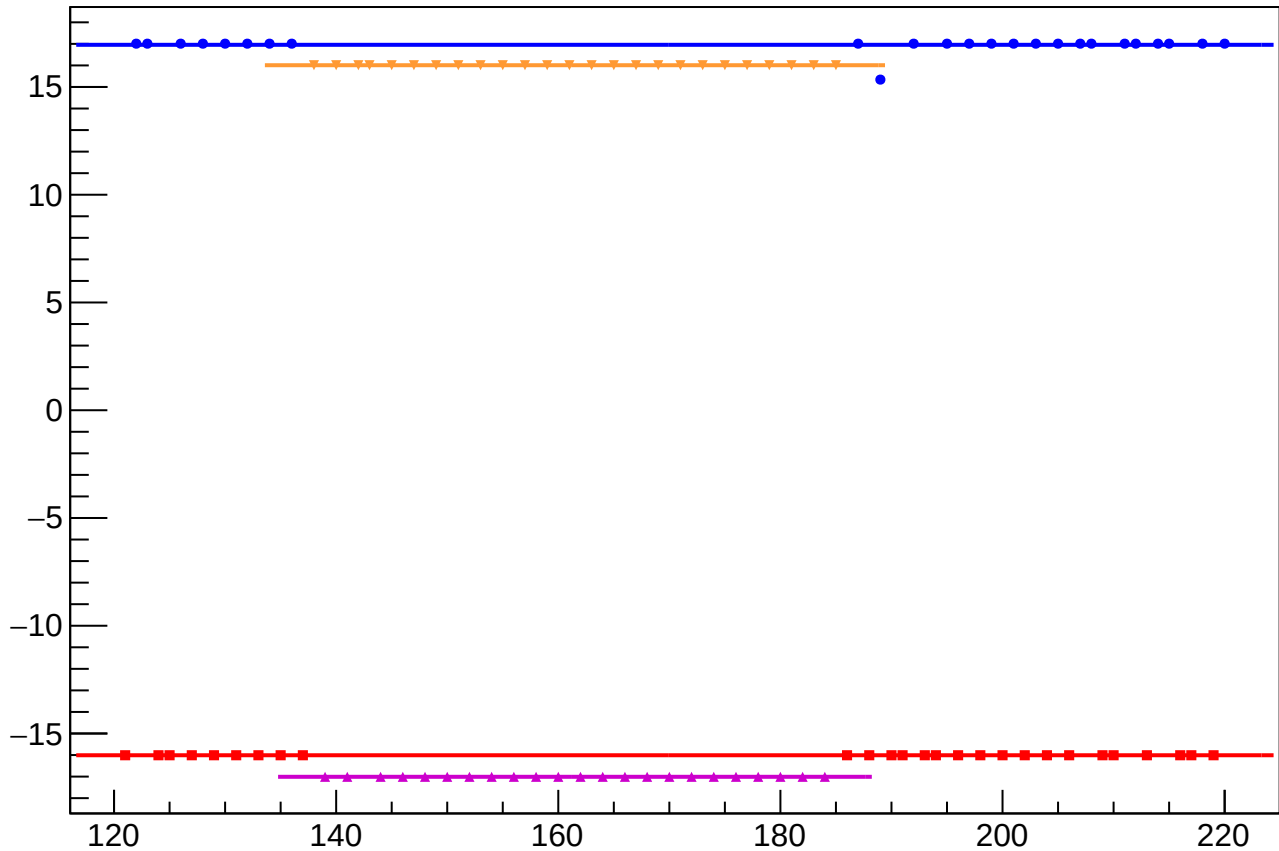
χ^2/NDF : 60820216822120

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



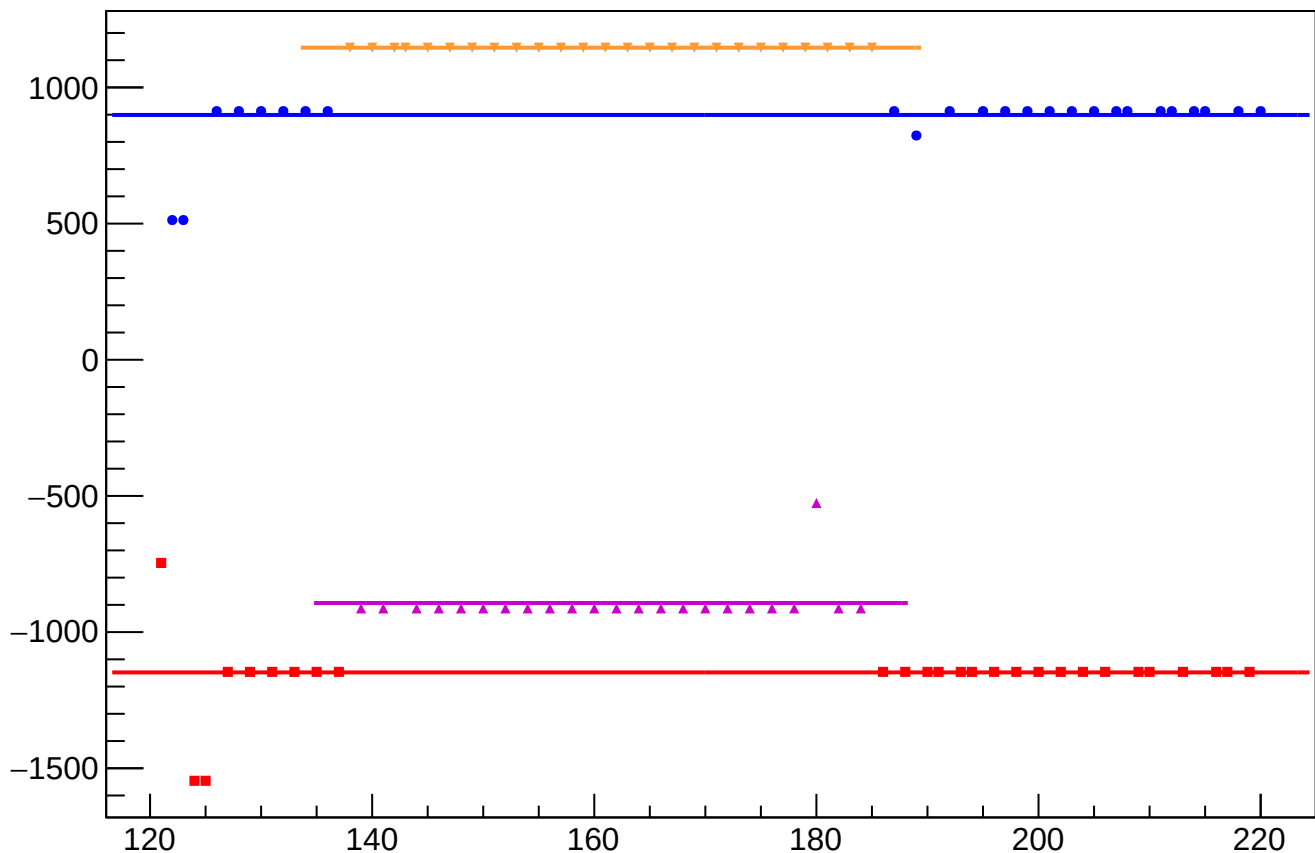
Right In: 15.959 $\pm$ 0.000 χ^2 /NDF: 121588497040149669815414540992512.0/24
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 18464155514781331791806464.0/26
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.234 $\pm$ 0.000 χ^2 /NDF: 18063764478853

IGL1I00OD16_16_mean vs Slug, Sign Corrected



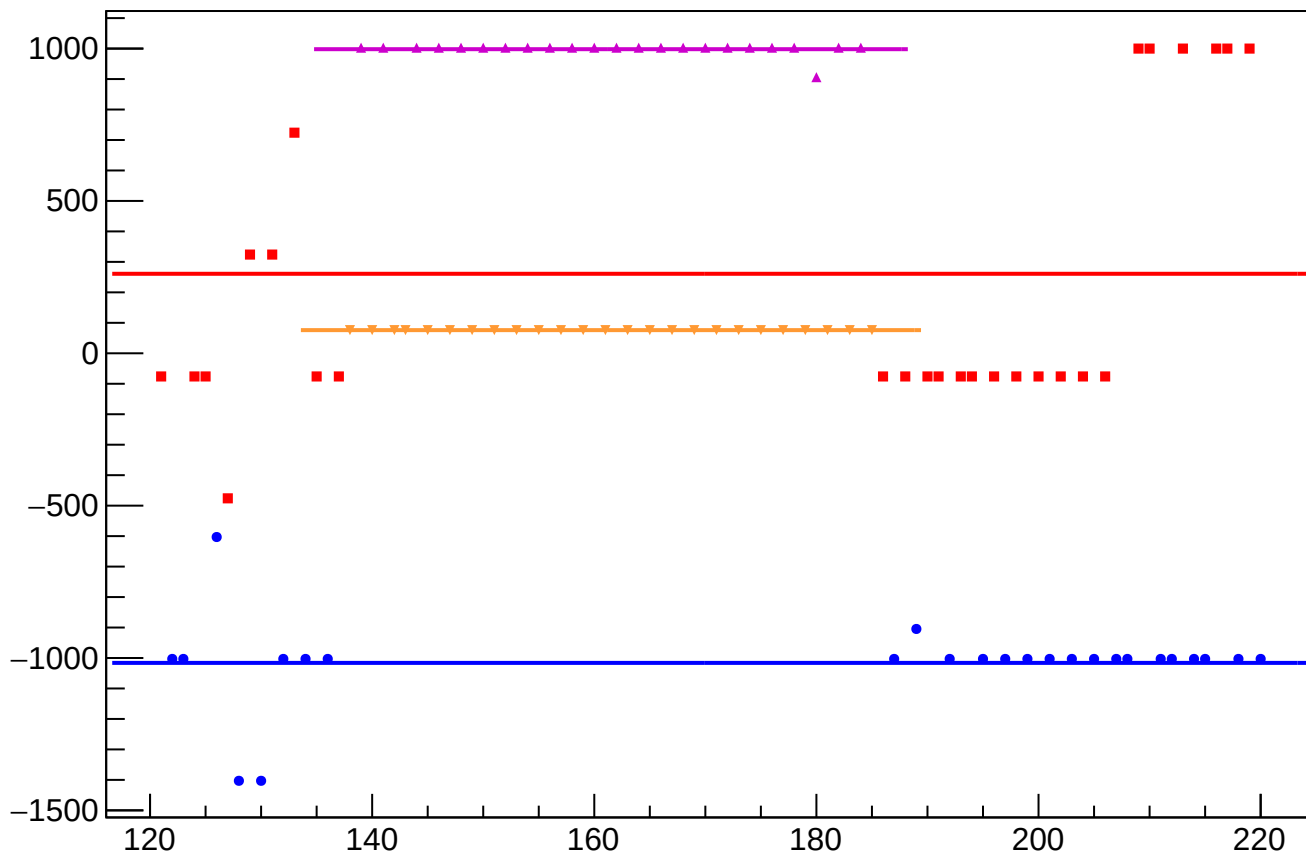
Right In: 16.957+/-0.000 χ^2/NDF : 137326483679513162892551609384960.0/24
 Left Out: 16.009+/-0.000 χ^2/NDF : 89740.8/24
 Right Out: -16.009+/-0.000 χ^2/NDF : 253331.6/26
 Left In: -17.009+/-0.000 χ^2/NDF : 115033472633445654986752.0/22
 All: 0.263+/-0.000 χ^2/NDF : 18669417189251

RTPAPOSUCNT_mean vs Slug, Sign Corrected



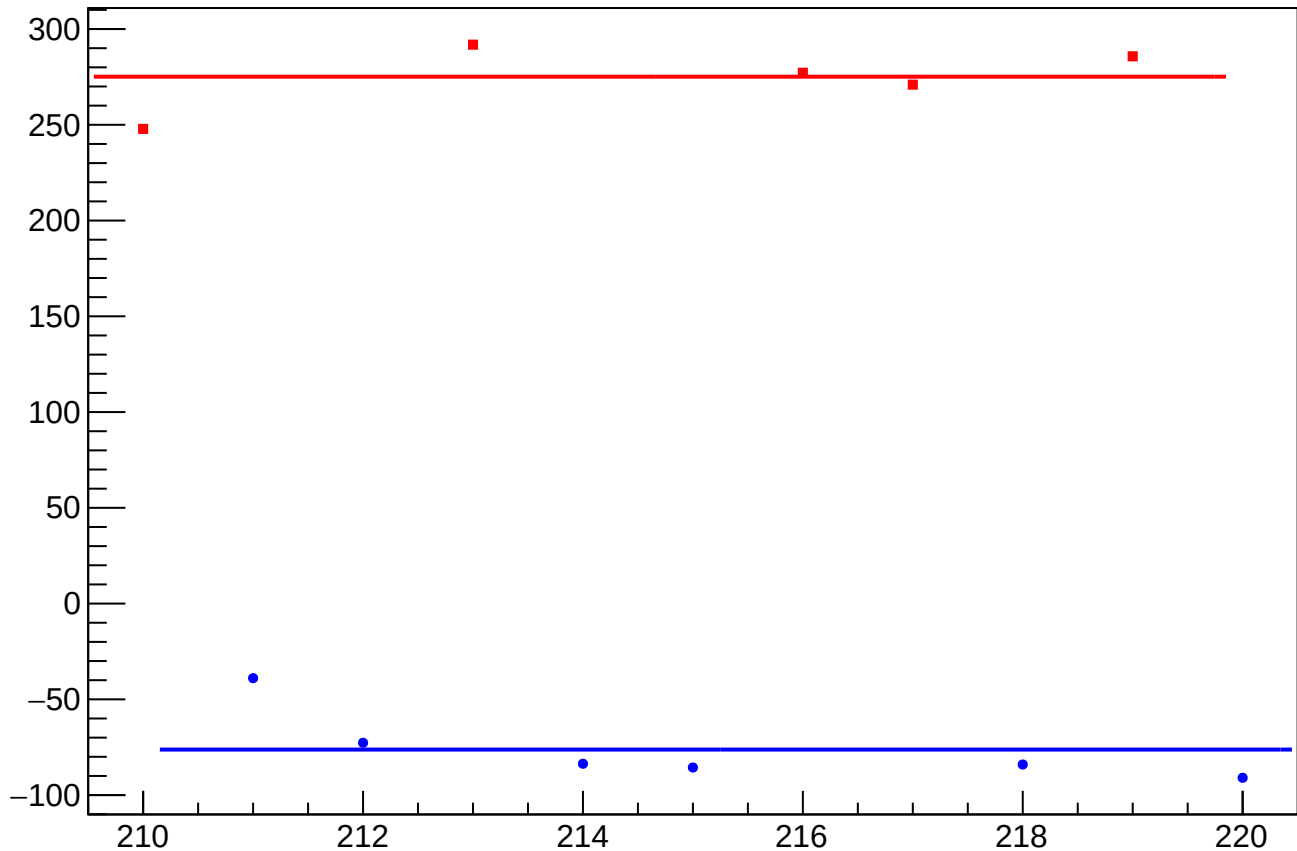
Right In: 898.969 $\pm$ 0.000 χ^2/NDF : 7292201971946521657532773135959457792.0/24
 Left Out: 1146.011 $\pm$ 0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.009 $\pm$ 0.000 χ^2/NDF : 13754271185883278485733122331782414336.0/26
 Left In: -893.116 $\pm$ 0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 25.960 $\pm$ 0.000 χ^2/NDF : 7392936435806

RTPAPOSVCNT_mean vs Slug, Sign Corrected



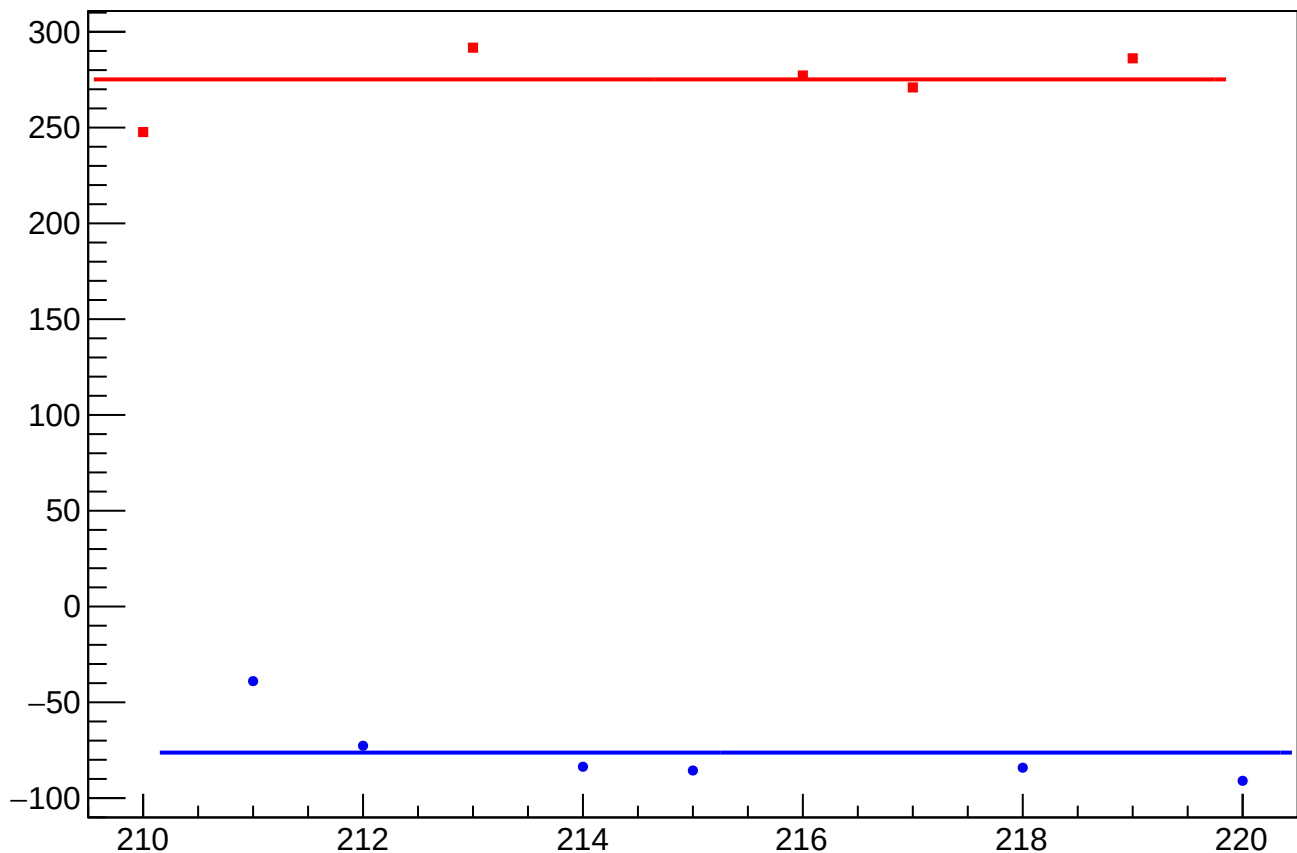
Right In: -1016.031 $\pm$ 0.000 χ^2 /NDF: 23419120959455195311698407487394807808.0/24
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 11003263624957134120836661248.0/24
 Right Out: 260.938 $\pm$ 0.000 χ^2 /NDF: 393215478595281931183613211087833399296.0/26
 Left In: 998.020 $\pm$ 0.000 χ^2 /NDF: 826231736084035689068445378231140352.0/22
 All: 106.127 $\pm$ 0.000 χ^2 /NDF: 392428044623

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: -76.225 ± 0.000 $\chi^2/\text{NDF}: 141867958285202270567808775252606976.0/5$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 275.123 ± 0.000 $\chi^2/\text{NDF}: 86164430592231083349779893945630720.0/4$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 81.633 ± 0.000 $\chi^2/\text{NDF}: 2612937252007713$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -76.245 ± 0.000 $\chi^2/\text{NDF}: 142011984631896394853390918522765312.0/5$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 275.151 ± 0.000 $\chi^2/\text{NDF}: 87316479018886398499496763095777280.0/4$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 81.635 ± 0.000 $\chi^2/\text{NDF}: 2613770502055679$