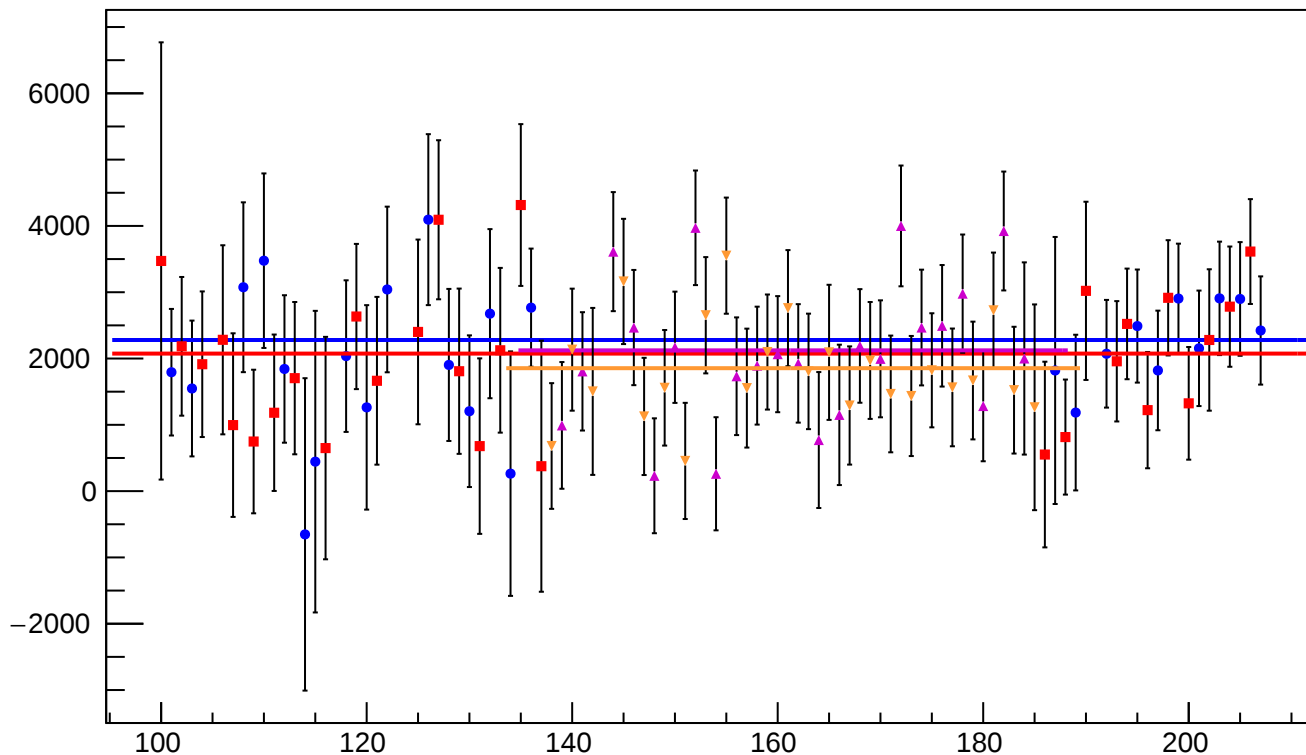


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2279.404+/-210.176

Left Out: 1854.267+/-187.405

Right Out: 2074.382+/-205.149

Left In: 2123.138+/-188.684

χ^2/NDF : 12.7/25

χ^2/NDF : 15.1/23

χ^2/NDF : 23.5/28

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2174.412+/-146.807

In: 2192.875+/-140.405

Out: 1954.396+/-138.364

All: 2071.889+/-98.552

χ^2/NDF : 48.1/46

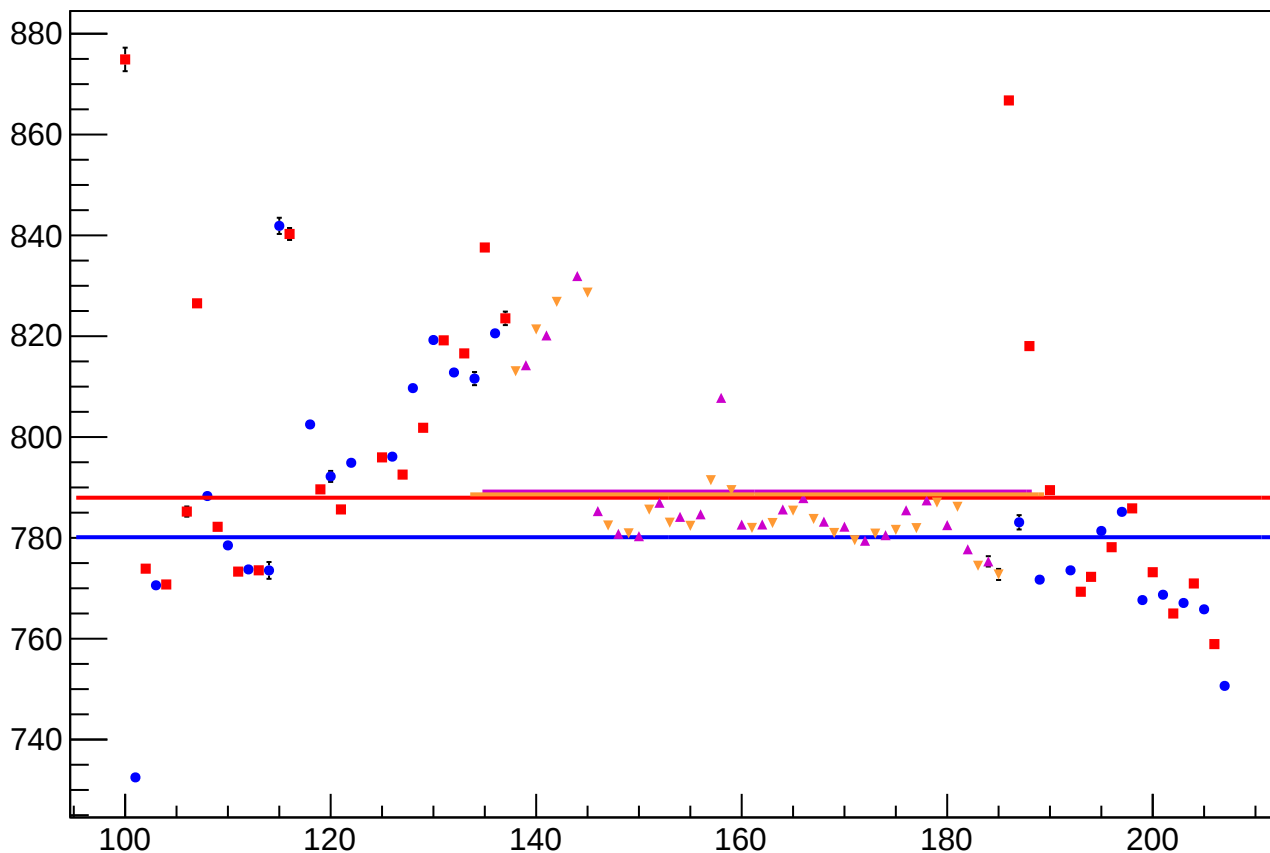
χ^2/NDF : 36.7/54

χ^2/NDF : 45.1/48

χ^2/NDF : 39.2/52

χ^2/NDF : 85.8/101

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 780.131+/-0.149 χ^2/NDF : 22686.8/25

Left Out: 788.629+/-0.133 χ^2/NDF : 11478.1/23

Right Out: 787.968+/-0.145 χ^2/NDF : 28455.8/28

Left In: 789.185+/-0.133 χ^2/NDF : 11343.2/22

Left: 788.905+/-0.094 χ^2/NDF : 22830.1/46

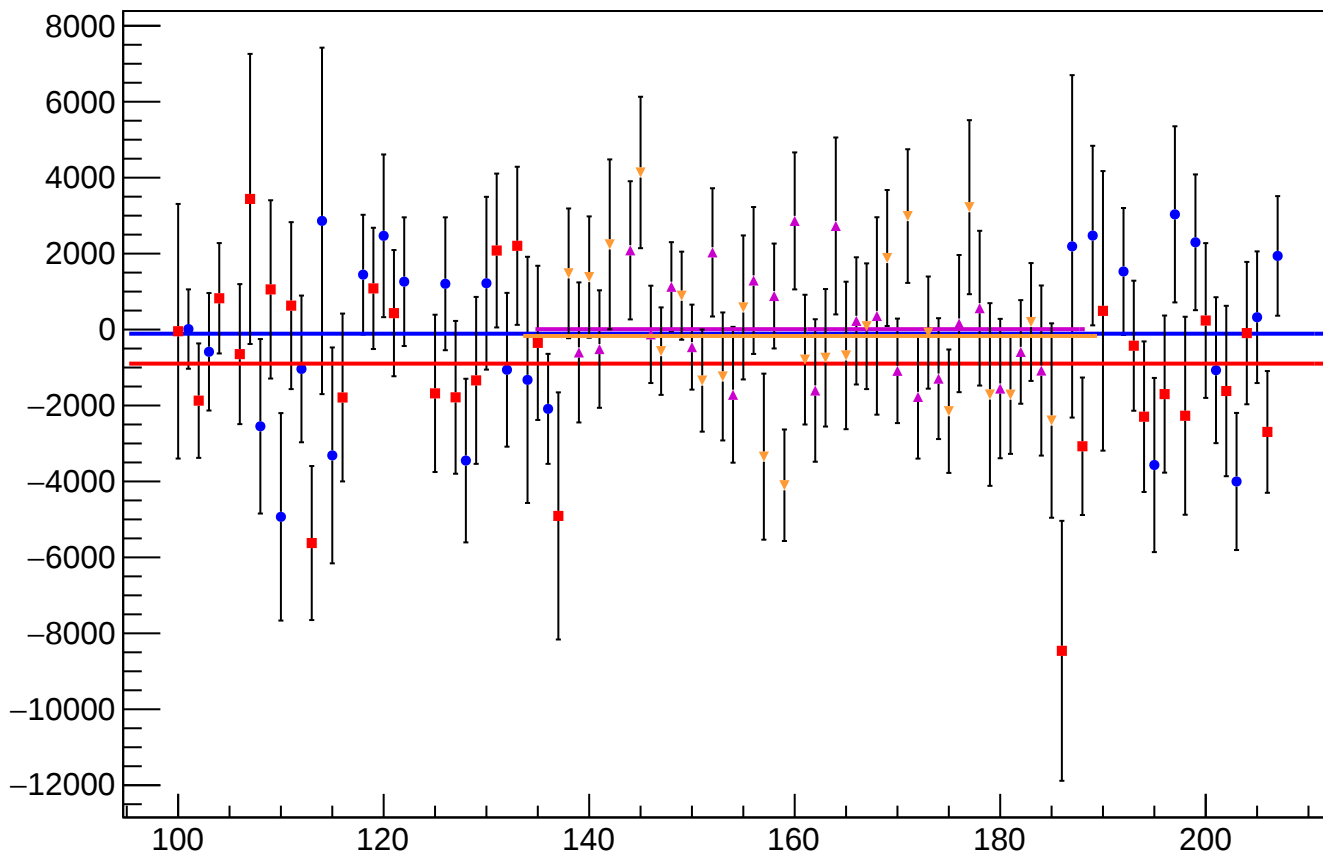
Right: 784.144+/-0.104 χ^2/NDF : 52566.9/54

In: 785.144+/-0.099 χ^2/NDF : 36085.2/48

Out: 788.329+/-0.098 χ^2/NDF : 39945.2/52

All: 786.760+/-0.070 χ^2/NDF : 76552.4/101

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -109.114 $\pm$ 372.579 χ^2 /NDF: 29.9/25

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

Right Out: -897.258 $\pm$ 377.764 χ^2 /NDF: 27.8/28

Left In: 10.093 $\pm$ 337.810 χ^2 /NDF:14.2/22

Left: -78.858 $\pm$ 239.775 χ^2 /NDF: 44.4/46

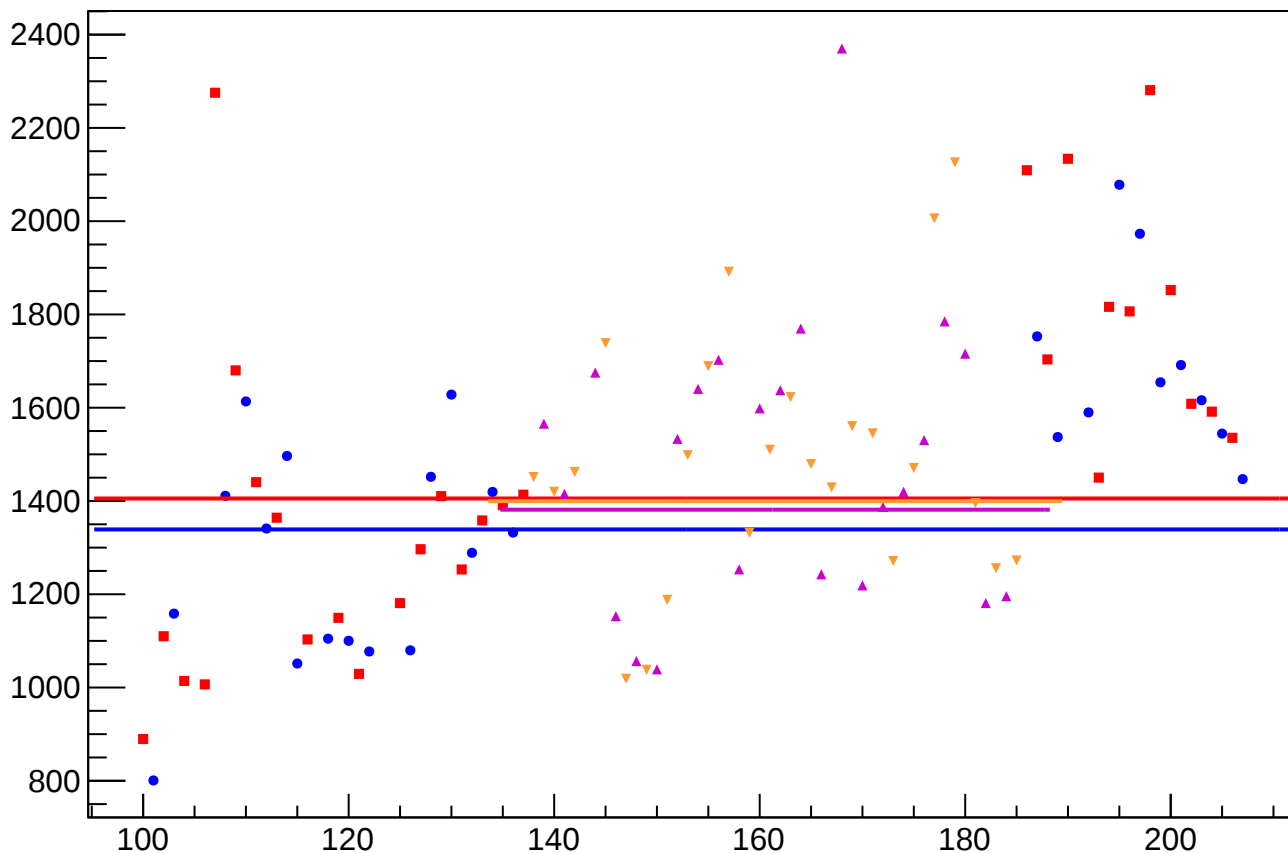
Right: -497.740 $\pm$ 265.267 χ^2 /NDF: 59.9/54

In: -43.690 $\pm$ 250.259 χ^2 /NDF:44.1/48

Out: -495.427 $\pm$ 252.876 χ^2 /NDF:59.9/52

All: -267.209 $\pm$ 177.878 χ^2 /NDF: 105.6/101

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1339.003+/-0.263 χ^2/NDF : 1450868.2/25

Left Out: 1399.587+/-0.241 χ^2/NDF : 1119125.1/23

Right Out: 1405.332+/-0.267 χ^2/NDF : 1478717.1/28

Left In: 1381.359+/-0.239 χ^2/NDF : 1276488.2/22

Left: 1390.403+/-0.170 χ^2/NDF : 2398502.8/46

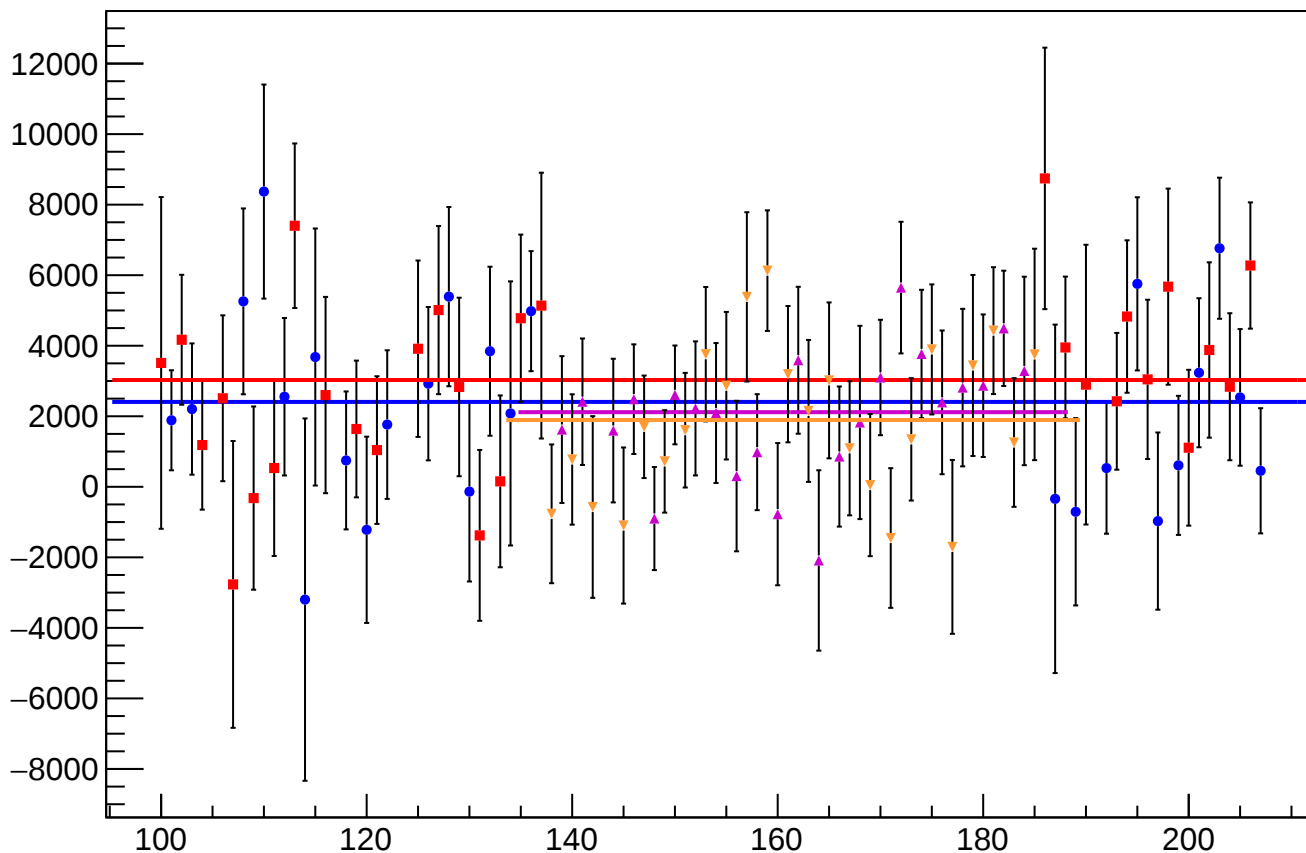
Right: 1371.709+/-0.188 χ^2/NDF : 2960840.9/54

In: 1362.249+/-0.177 χ^2/NDF : 2741542.0/48

Out: 1402.161+/-0.179 χ^2/NDF : 2598097.5/52

All: 1381.998+/-0.126 χ^2/NDF : 5364810.0/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2407.003+/-438.352 χ^2/NDF : 27.6/25

Left Out: 1893.469+/-394.877 χ^2/NDF : 25.9/23

Right Out: 3027.828+/-439.676 χ^2/NDF : 25.9/28

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

Left: 2005.323+/-278.553 χ^2/NDF : 44.9/46

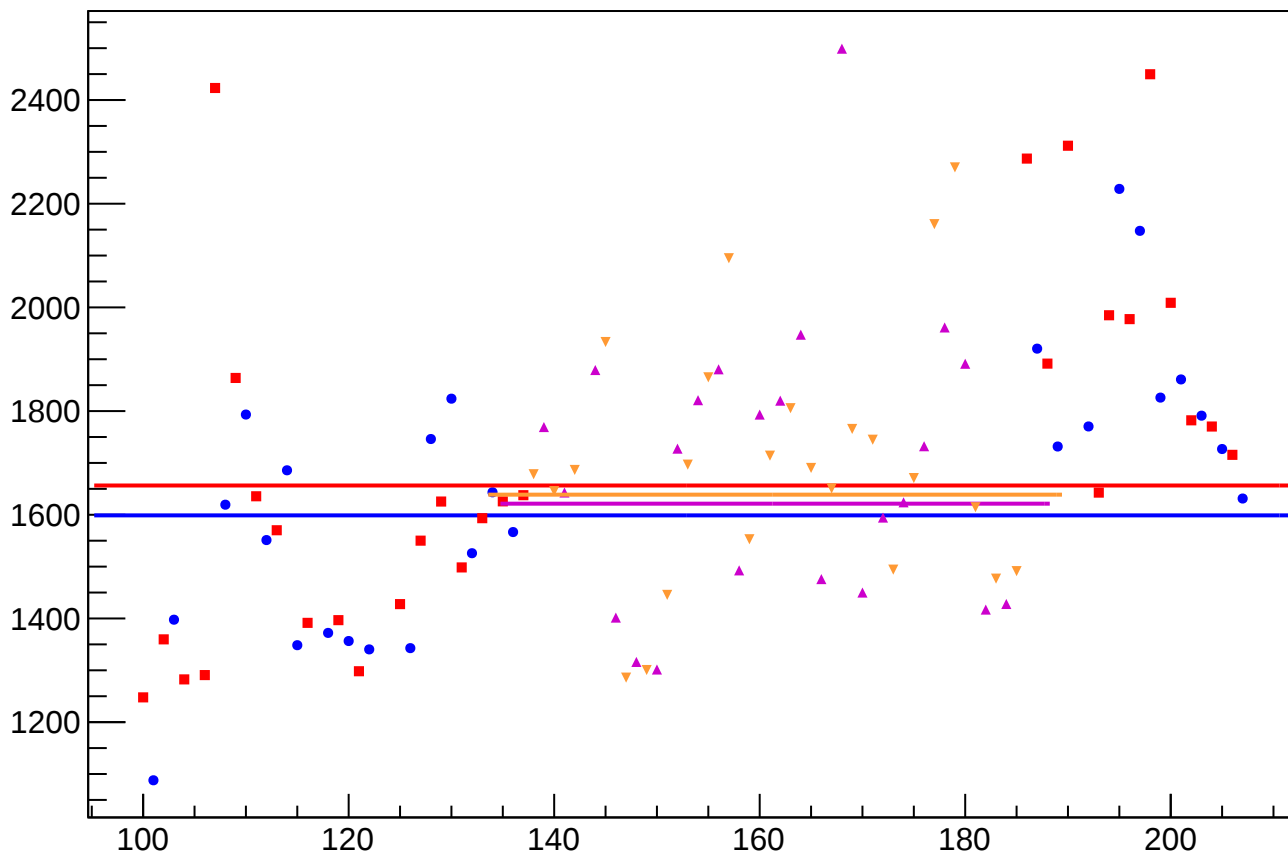
Right: 2716.479+/-310.428 χ^2/NDF : 54.5/54

In: 2245.736+/-292.616 χ^2/NDF : 46.6/48

Out: 2399.931+/-293.786 χ^2/NDF : 55.6/52

All: 2322.526+/-207.323 χ^2/NDF : 102.3/101

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1598.850+/-0.310 χ^2/NDF : 771674.1/25

Left Out: 1638.806+/-0.279 χ^2/NDF : 671906.6/23

Right Out: 1656.476+/-0.311 χ^2/NDF : 882771.2/28

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

Left: 1630.070+/-0.197 χ^2/NDF : 1449165.3/46

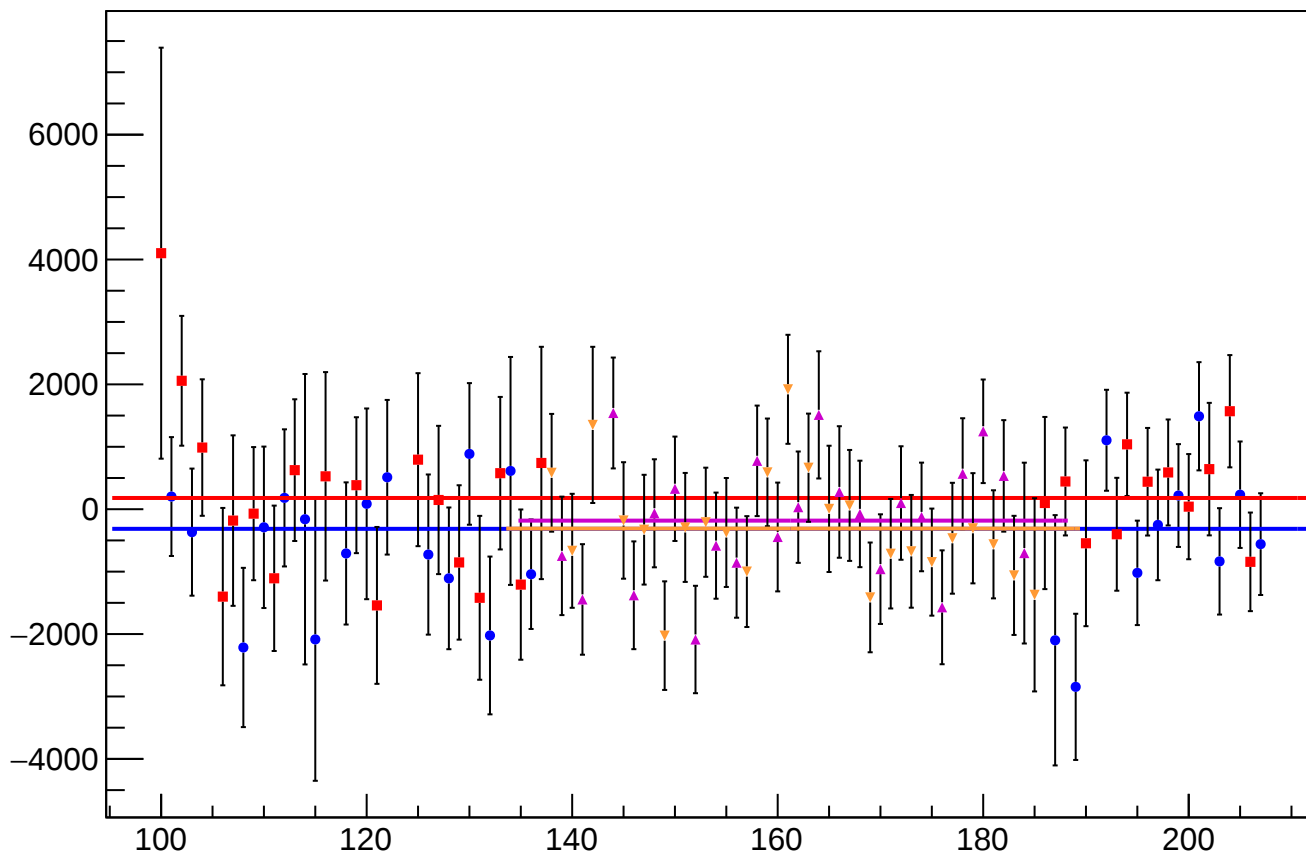
Right: 1627.576+/-0.220 χ^2/NDF : 1671674.7/54

In: 1611.361+/-0.207 χ^2/NDF : 1549922.7/48

Out: 1646.695+/-0.208 χ^2/NDF : 1556465.8/52

All: 1628.958+/-0.147 χ^2/NDF : 3120911.5/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -314.367 ± 208.514 χ^2/NDF : 23.3/25

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

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

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

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

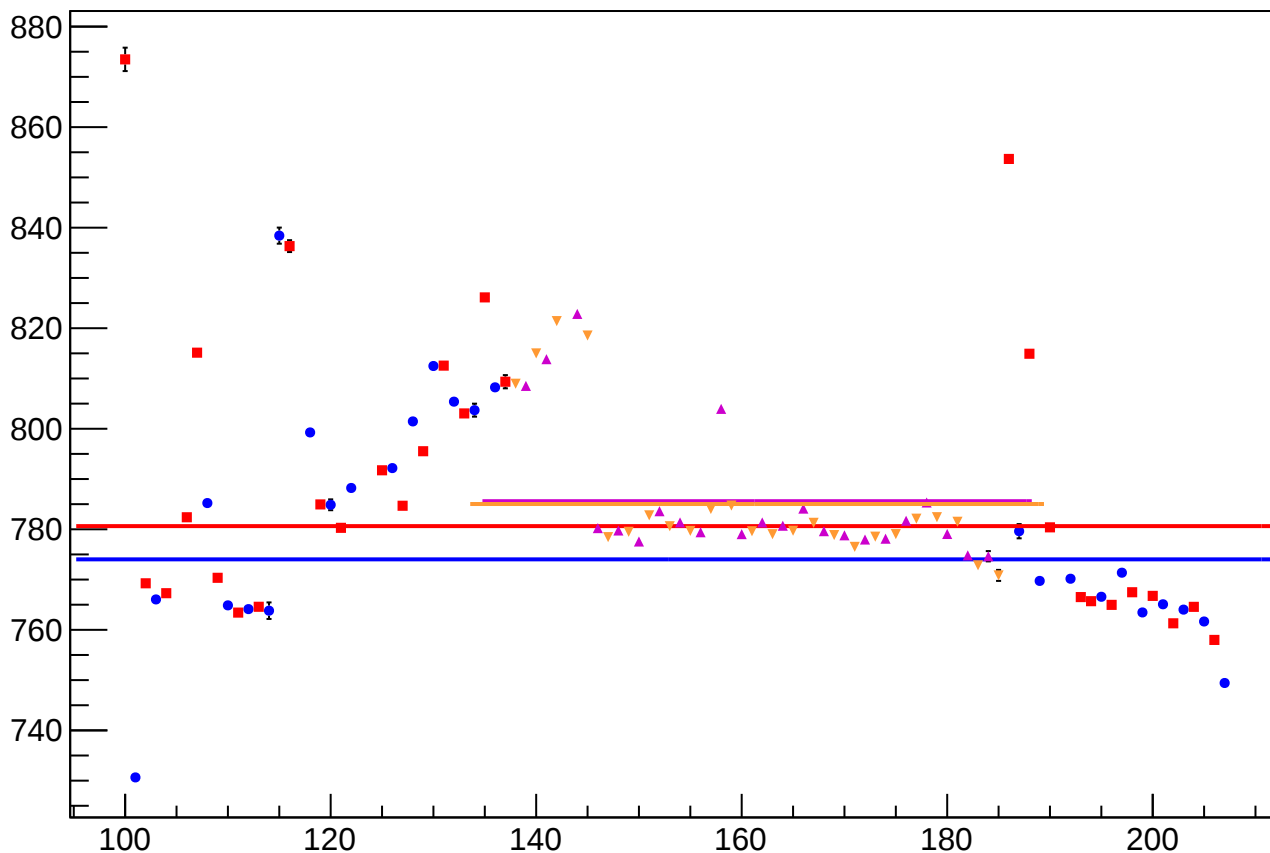
Right: -60.866 ± 145.535 χ^2/NDF : 46.5/54

In: -241.784 ± 139.552 χ^2/NDF : 49.7/48

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

All: -162.834 ± 97.917 χ^2/NDF : 93.8/101

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 774.020 $\pm$ 0.147 χ^2 /NDF: 19686.4/25

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

Right Out: 780.633 $\pm$ 0.144 χ^2 /NDF: 26846.7/28

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

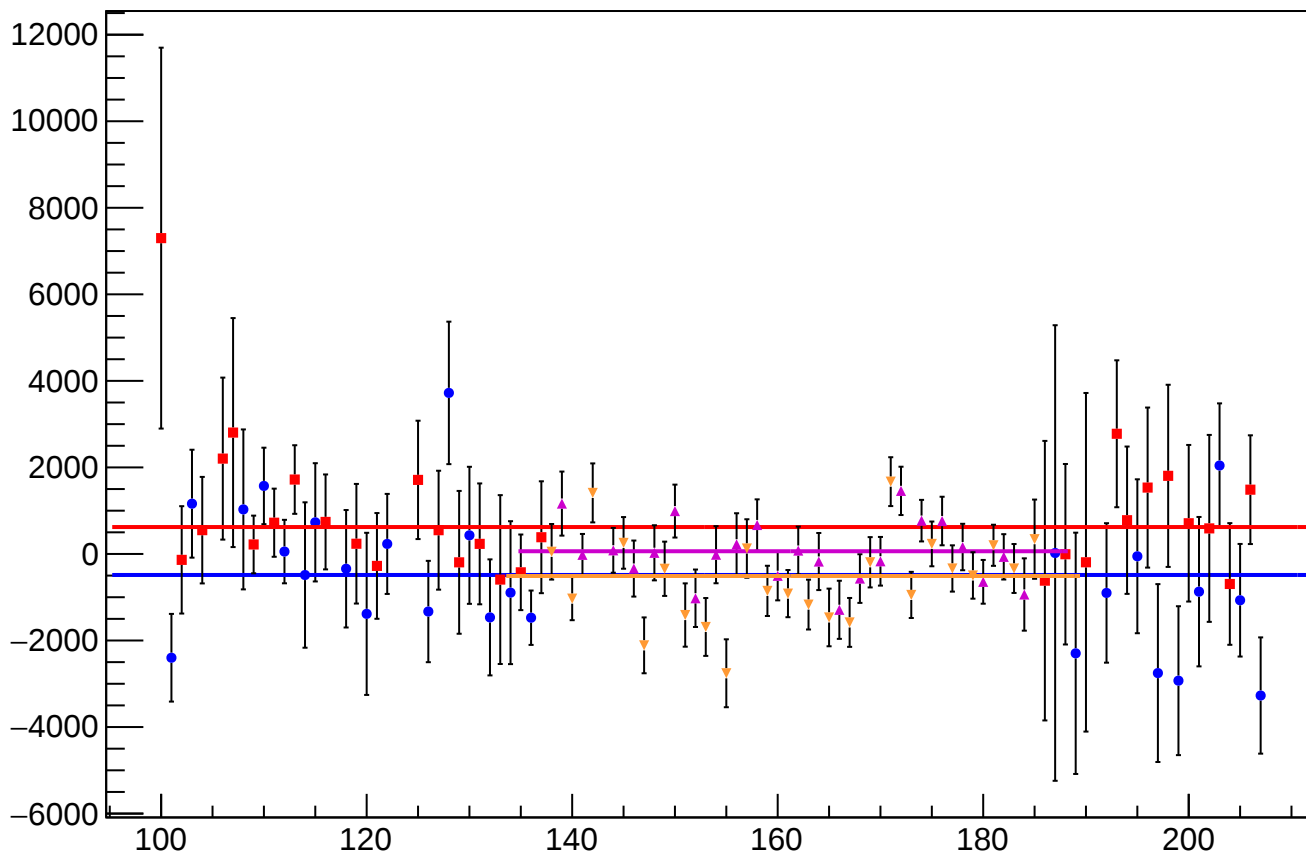
Right: 777.412 $\pm$ 0.103 χ^2 /NDF: 47564.7/54

In: 780.409 $\pm$ 0.099 χ^2 /NDF: 32460.8/48

Out: 783.020 $\pm$ 0.097 χ^2 /NDF: 36722.9/52

All: 781.734 $\pm$ 0.069 χ^2 /NDF: 69539.1/101

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -485.606 $\pm$ 250.983 χ^2/NDF : 35.3/25

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

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

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

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

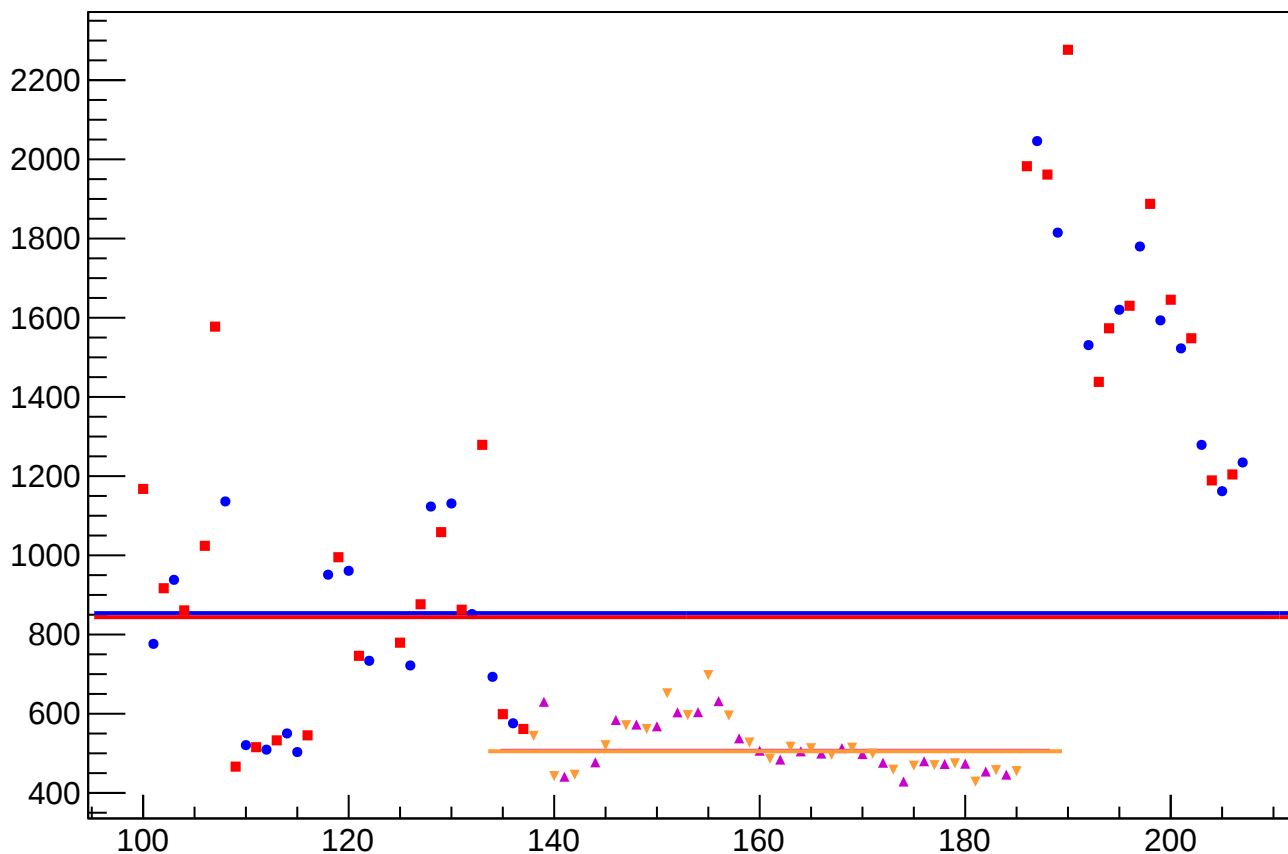
Right: 81.328 $\pm$ 175.355 χ^2/NDF : 58.9/54

In: -42.102 $\pm$ 109.757 χ^2/NDF :67.9/48

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

All: -165.839 $\pm$ 77.210 χ^2/NDF : 161.7/101

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 854.089 $\pm$ 0.177 χ^2 /NDF: 4167187.9/25

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

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

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

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

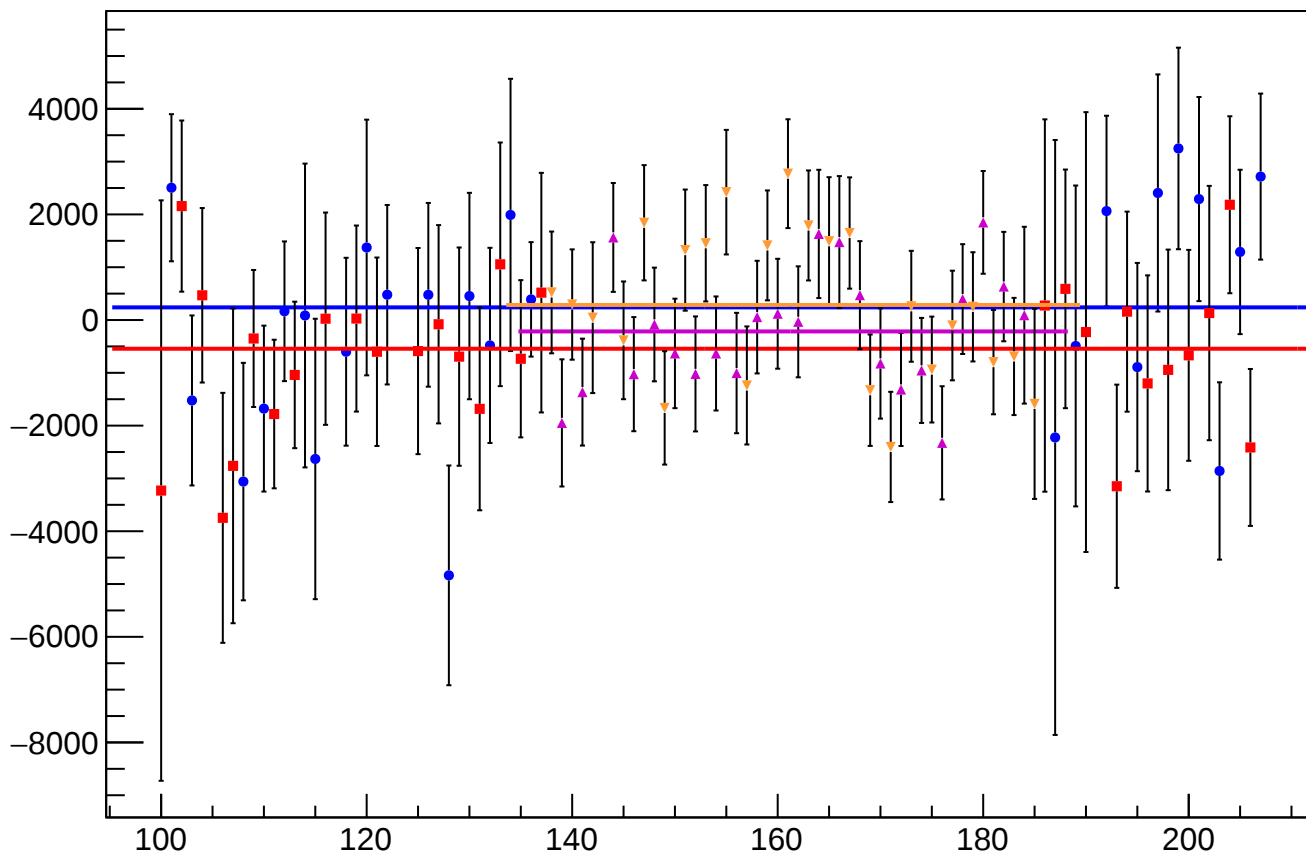
Right: 848.862 $\pm$ 0.124 χ^2 /NDF: 9681005.6/54

In: 572.875 $\pm$ 0.078 χ^2 /NDF:7707986.9/48

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

All: 572.307 $\pm$ 0.055 χ^2 /NDF: 16773961.6/100

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 239.433 ± 355.682 $\chi^2/\text{NDF}: 28.2/25$

Left Out: 285.144 ± 224.378 $\chi^2/\text{NDF}: 38.3/23$

Right Out: -543.728 ± 353.470 $\chi^2/\text{NDF}: 14.7/28$

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

Left: 35.874 ± 159.089 $\chi^2/\text{NDF}: 65.2/46$

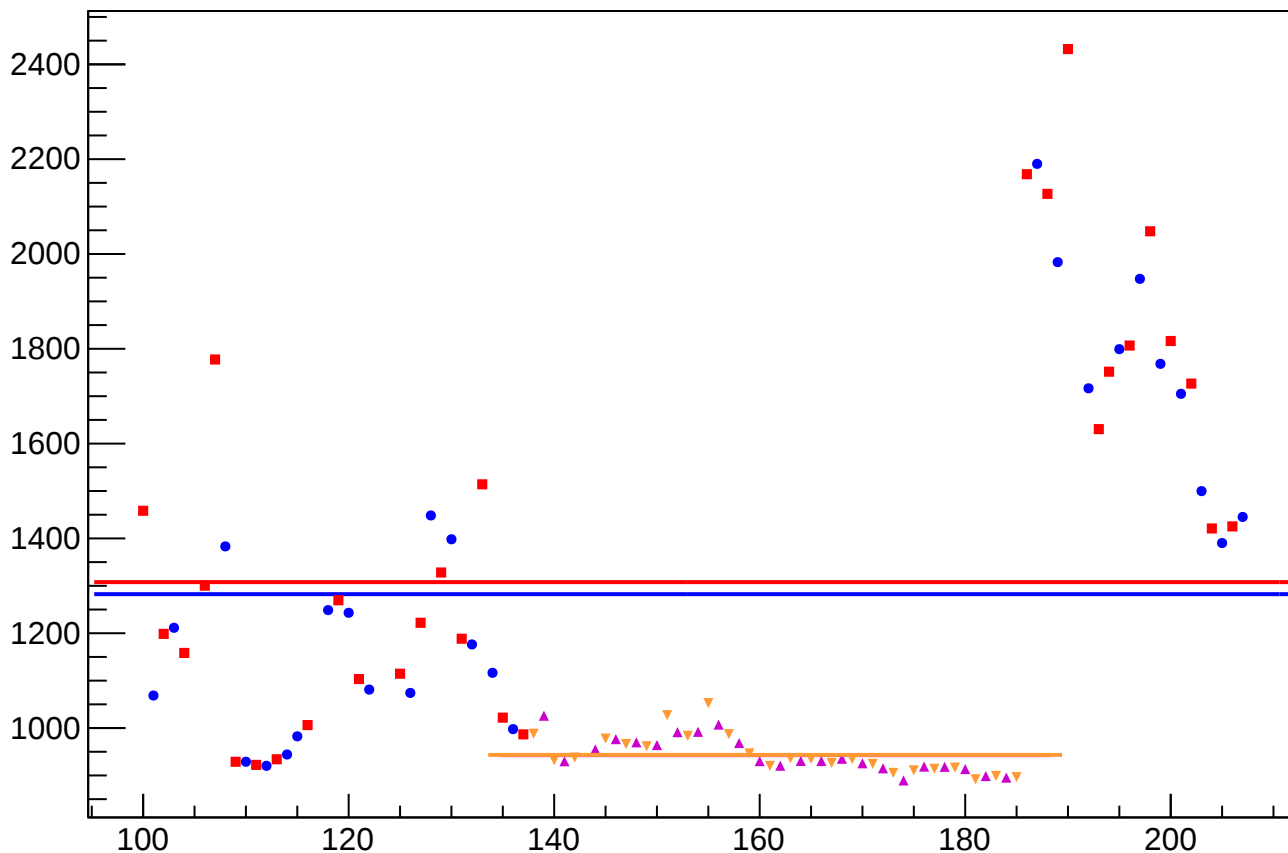
Right: -154.591 ± 250.719 $\chi^2/\text{NDF}: 45.4/54$

In: -85.428 ± 190.510 $\chi^2/\text{NDF}: 53.8/48$

Out: 47.078 ± 189.434 $\chi^2/\text{NDF}: 56.9/52$

All: -18.800 ± 134.329 $\chi^2/\text{NDF}: 111.0/101$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1282.411+/-0.252 χ^2/NDF : 1466308.0/25

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

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

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

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

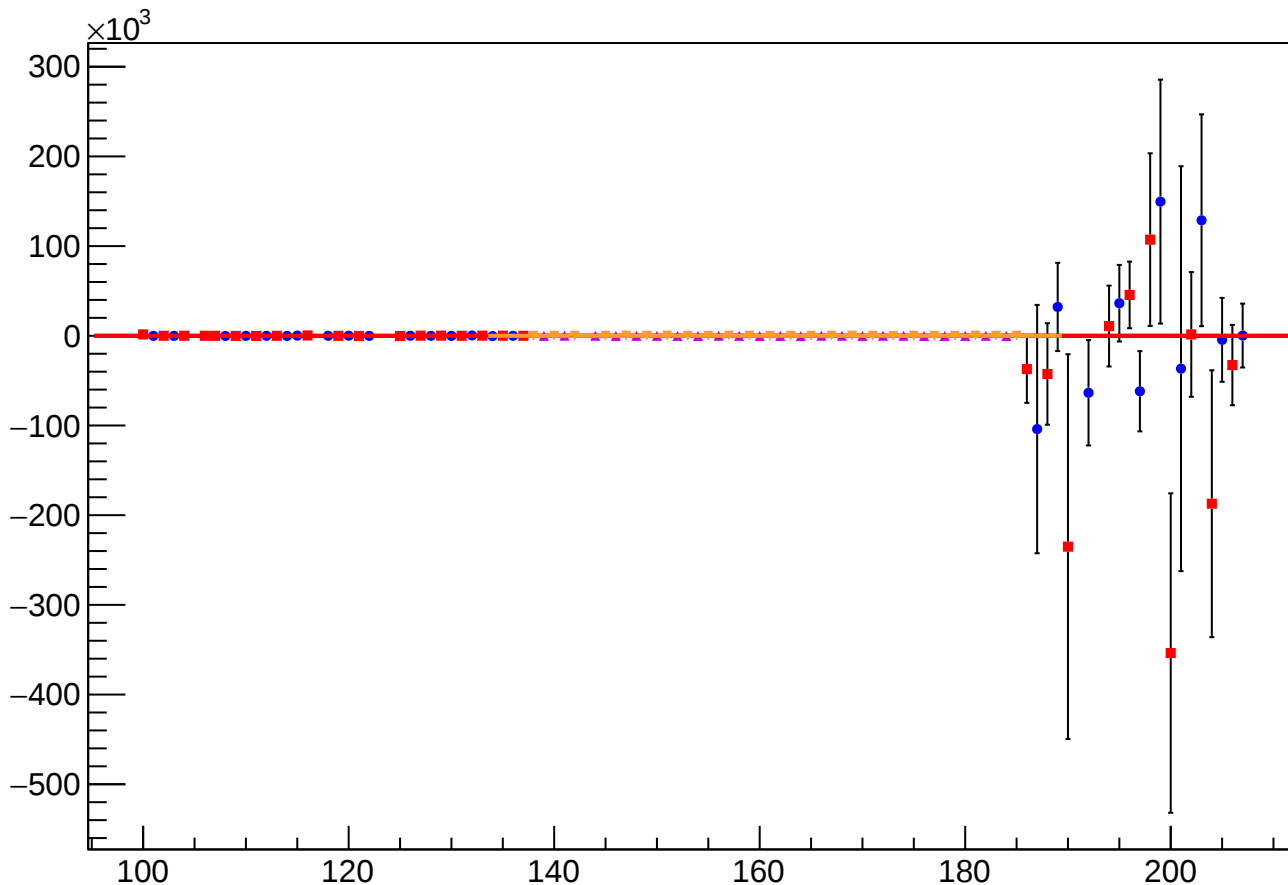
Right: 1295.199+/-0.177 χ^2/NDF : 3482965.7/54

In: 1040.321+/-0.135 χ^2/NDF : 2813991.0/48

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

All: 1044.200+/-0.095 χ^2/NDF : 6403262.7/100

reg_asym_ds_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

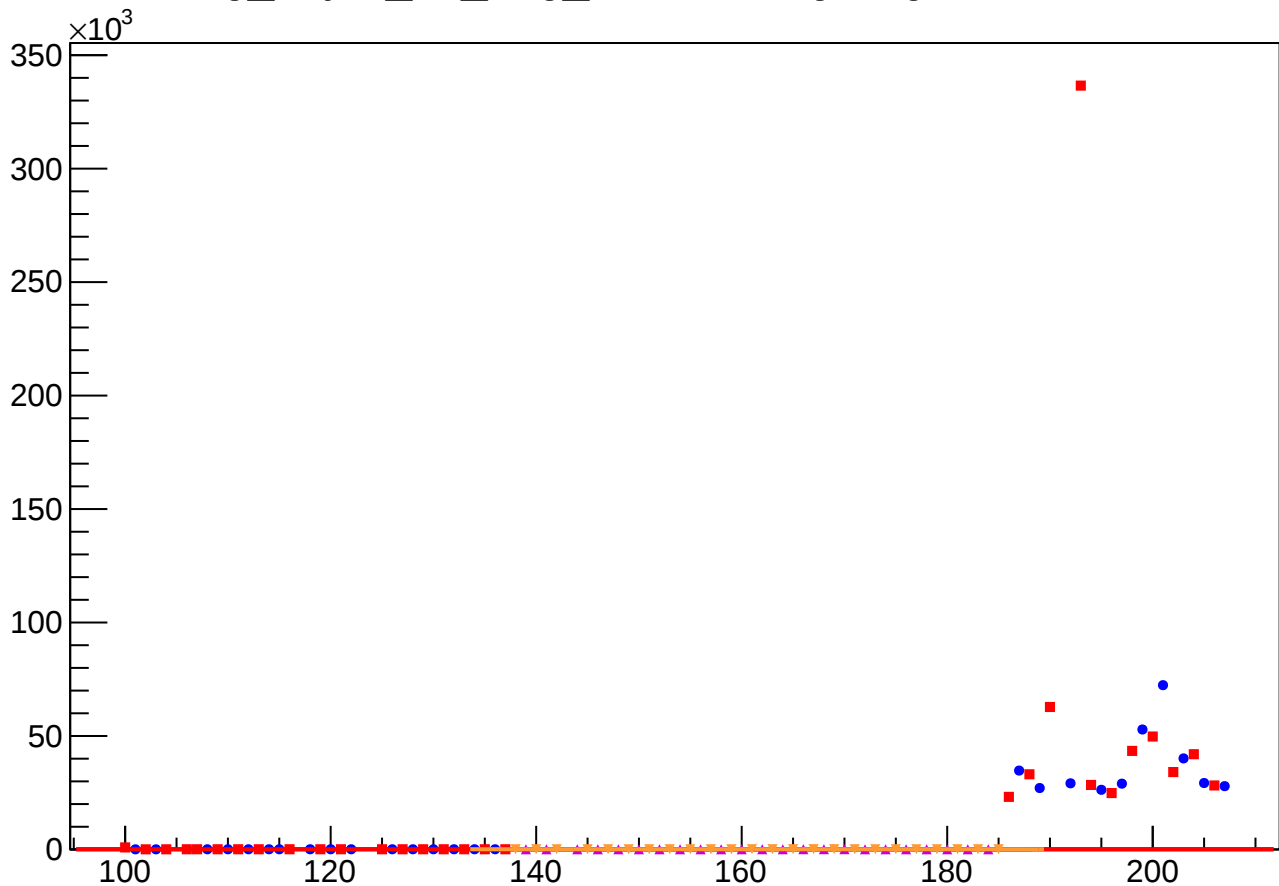
Right: 7.726+/-21.397 χ^2 /NDF: 52.8/53

In: -20.420+/-17.527 χ^2 /NDF:45.7/48

Out: 12.995+/-17.553 χ^2 /NDF:51.4/51

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

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.138 $\pm$ 0.021 χ^2 /NDF: 6093070.6/25

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

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

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

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

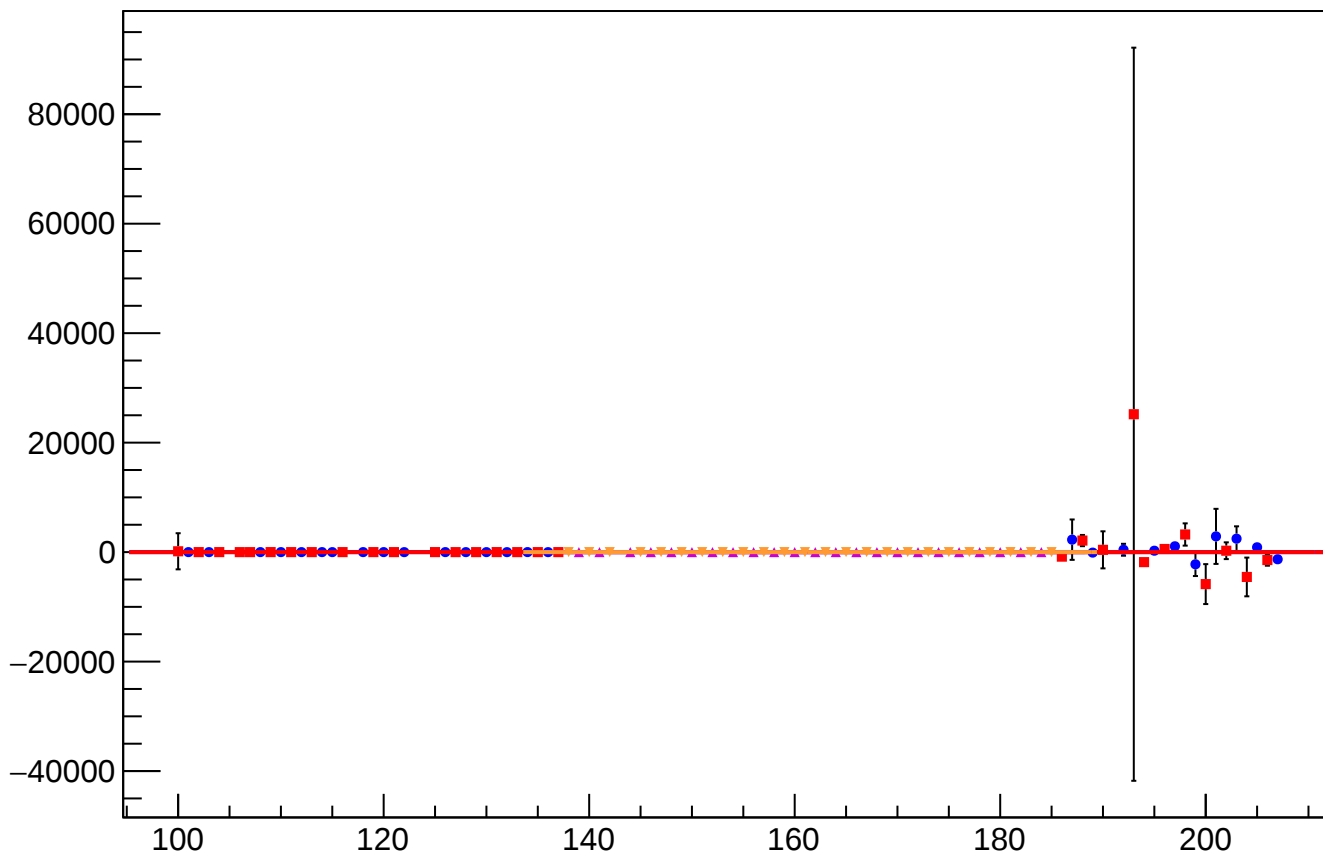
Right: 77.772 $\pm$ 0.015 χ^2 /NDF: 11900113.0/54

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 6866376.2/48

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

All: 85.655 $\pm$ 0.009 χ^2 /NDF: 13283803.5/101

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 30.9/25

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

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

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

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

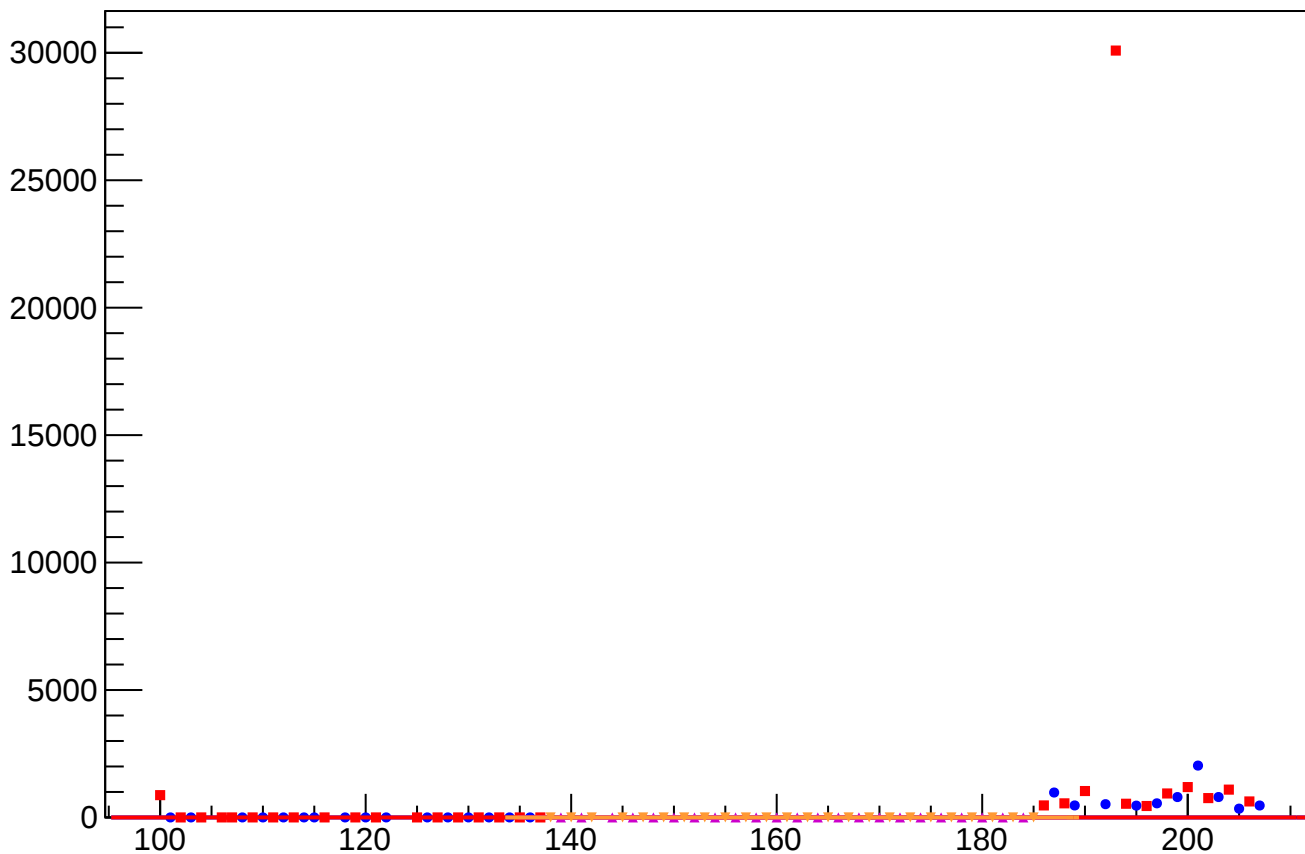
Right: -0.133 ± 0.363 χ^2/NDF : 60.1/54

In: -0.433 ± 0.306 χ^2/NDF : 57.3/48

Out: 0.096 ± 0.306 χ^2/NDF : 50.4/52

All: -0.168 ± 0.217 χ^2/NDF : 109.2/101

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 5307424.3/25

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

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

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

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

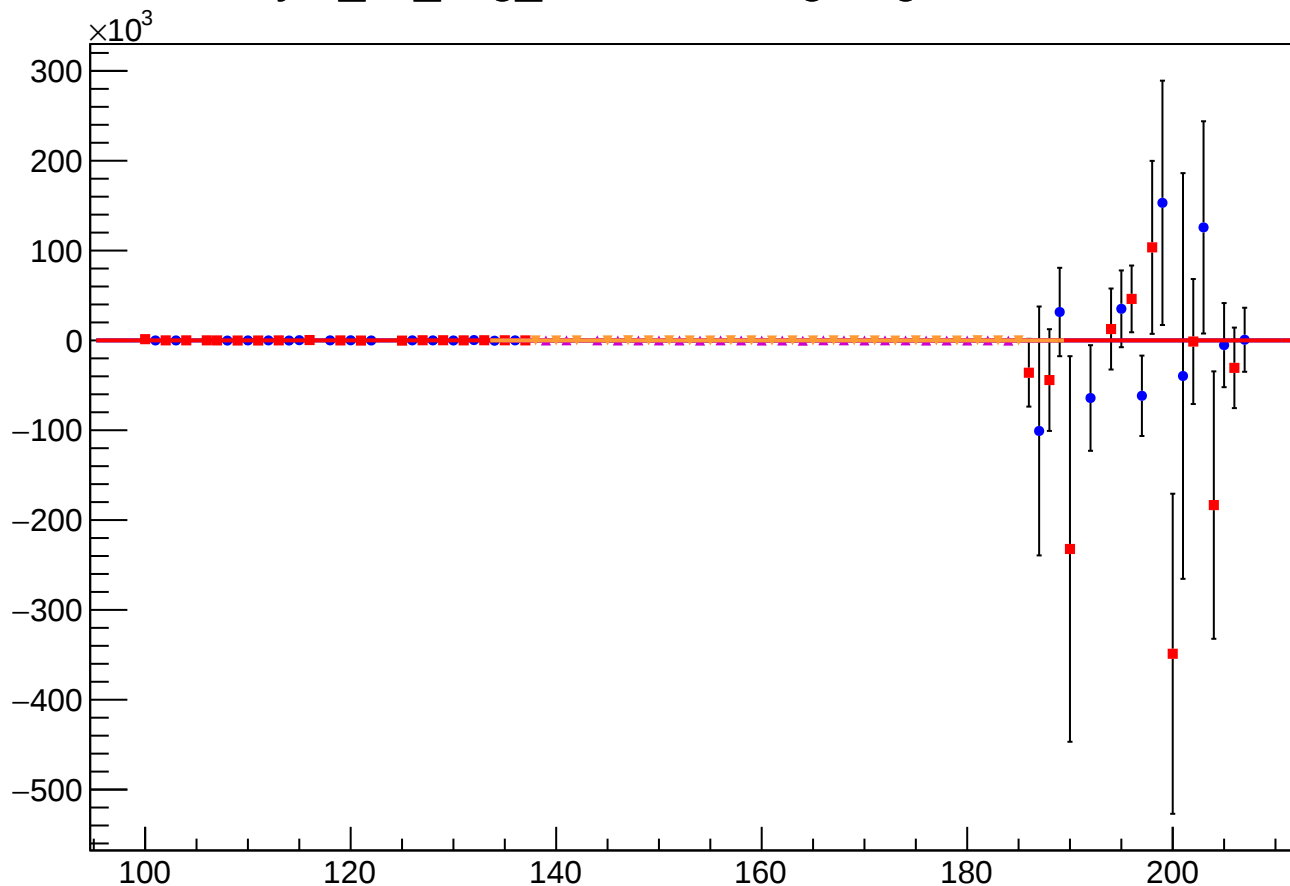
Right: 1.204+/-0.000 χ^2/NDF : 11275715.2/54

In: 1.341+/-0.000 χ^2/NDF : 6751587.9/48

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

All: 1.350+/-0.000 χ^2/NDF : 13772152.1/101

asym_ds_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

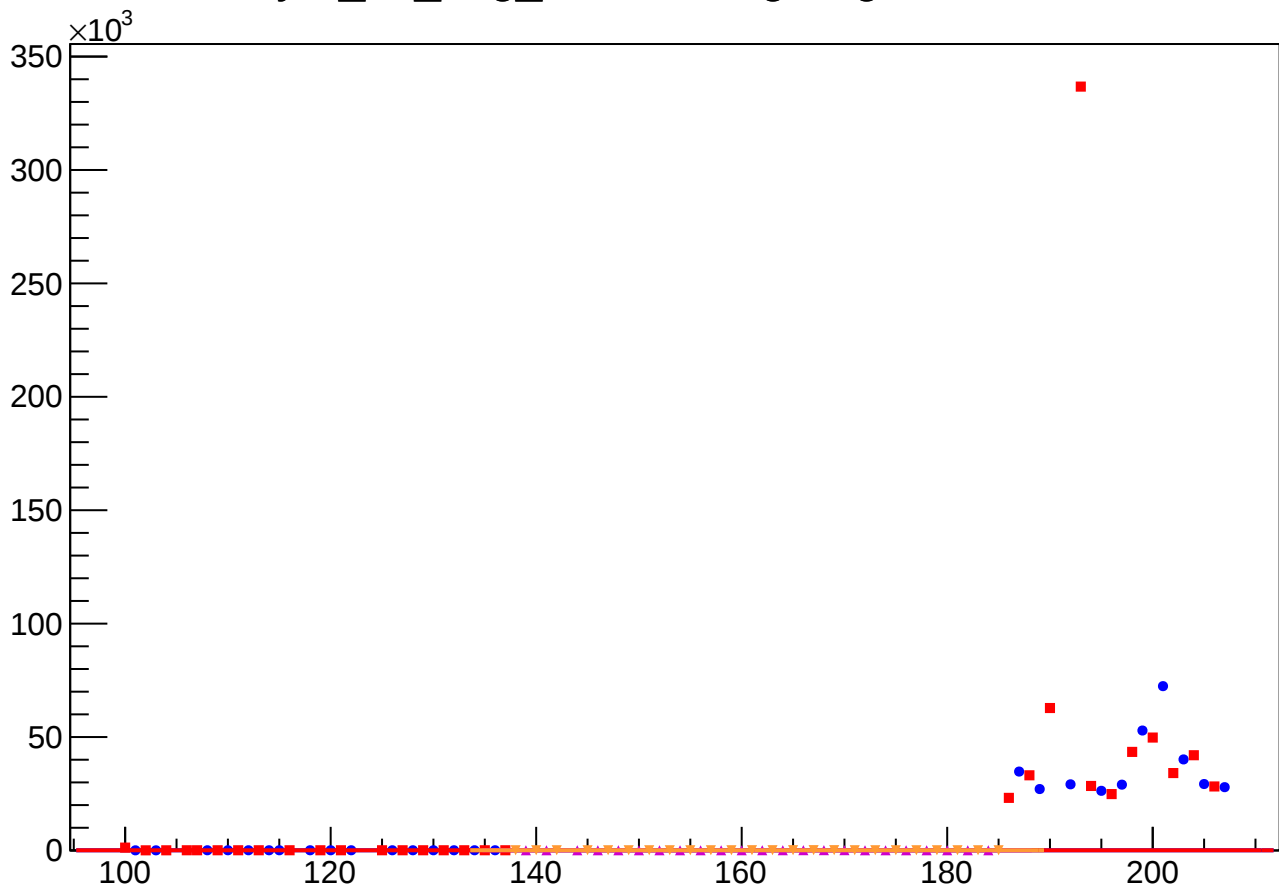
Right: 8.403 ± 21.402 χ^2/NDF : 52.6/53

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

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

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

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.158+/-0.021 χ^2/NDF : 6093177.3/25

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

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

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

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

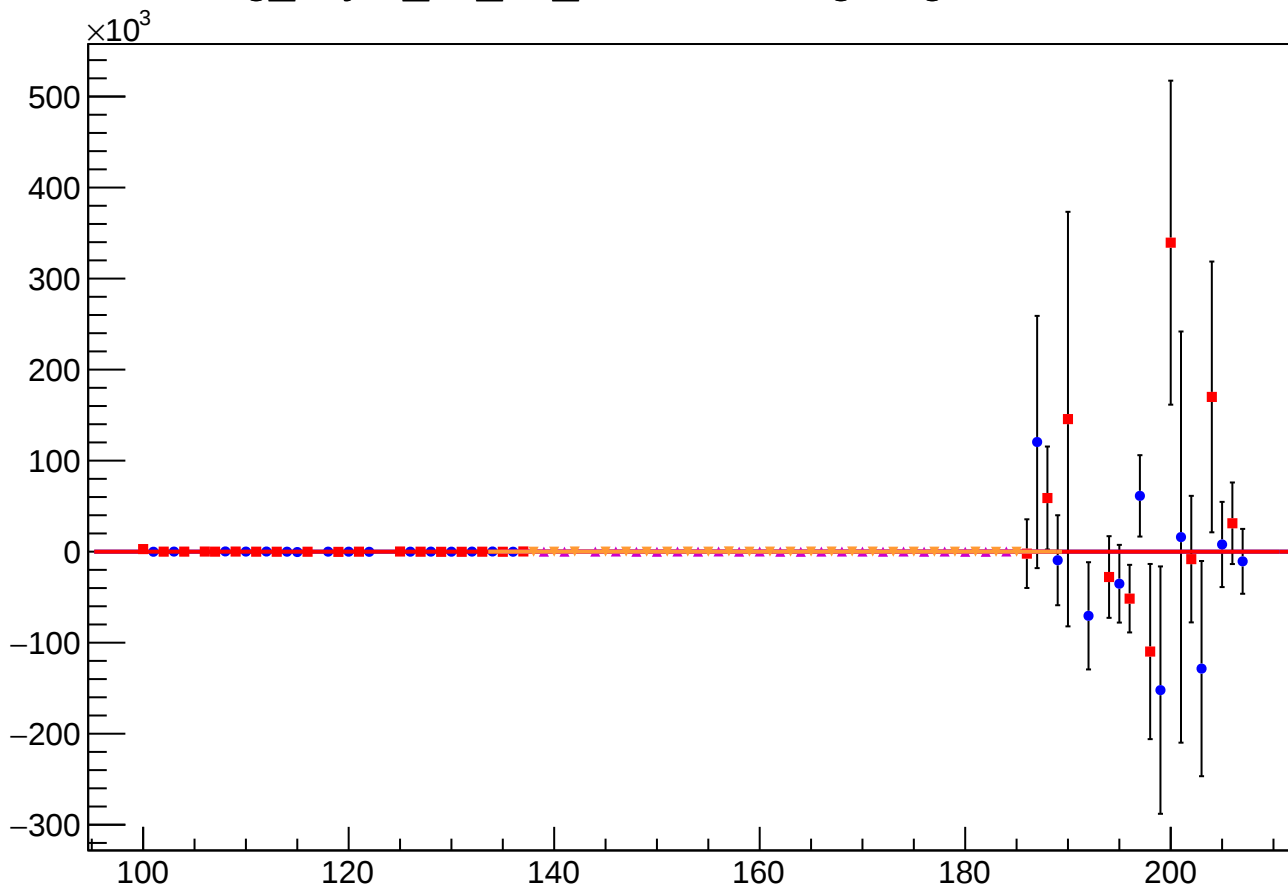
Right: 77.783+/-0.015 χ^2/NDF : 11906719.8/54

In: 85.036+/-0.012 χ^2/NDF : 6867485.7/48

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

All: 85.676+/-0.009 χ^2/NDF : 13292835.6/101

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.088 ± 30.012 $\chi^2/\text{NDF}: 21.4/25$

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

Right Out: -25.785 ± 30.473 $\chi^2/\text{NDF}: 23.3/27$

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

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

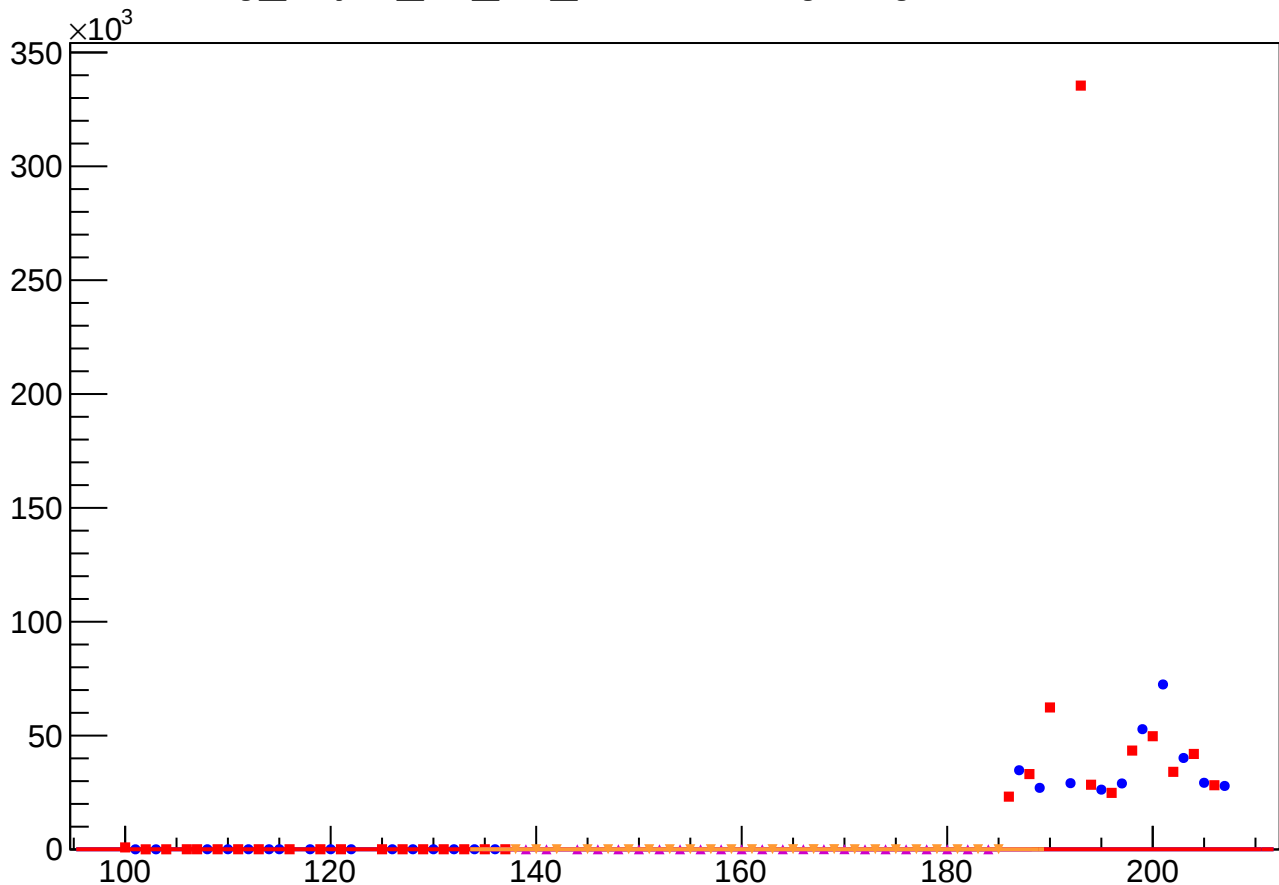
Right: -8.591 ± 21.383 $\chi^2/\text{NDF}: 45.3/53$

In: 31.371 ± 17.528 $\chi^2/\text{NDF}: 53.7/48$

Out: 1.652 ± 17.552 $\chi^2/\text{NDF}: 41.7/51$

All: 16.532 ± 12.403 $\chi^2/\text{NDF}: 96.9/100$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.089 $\pm$ 0.021 χ^2 /NDF: 6092323.9/25

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

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

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

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

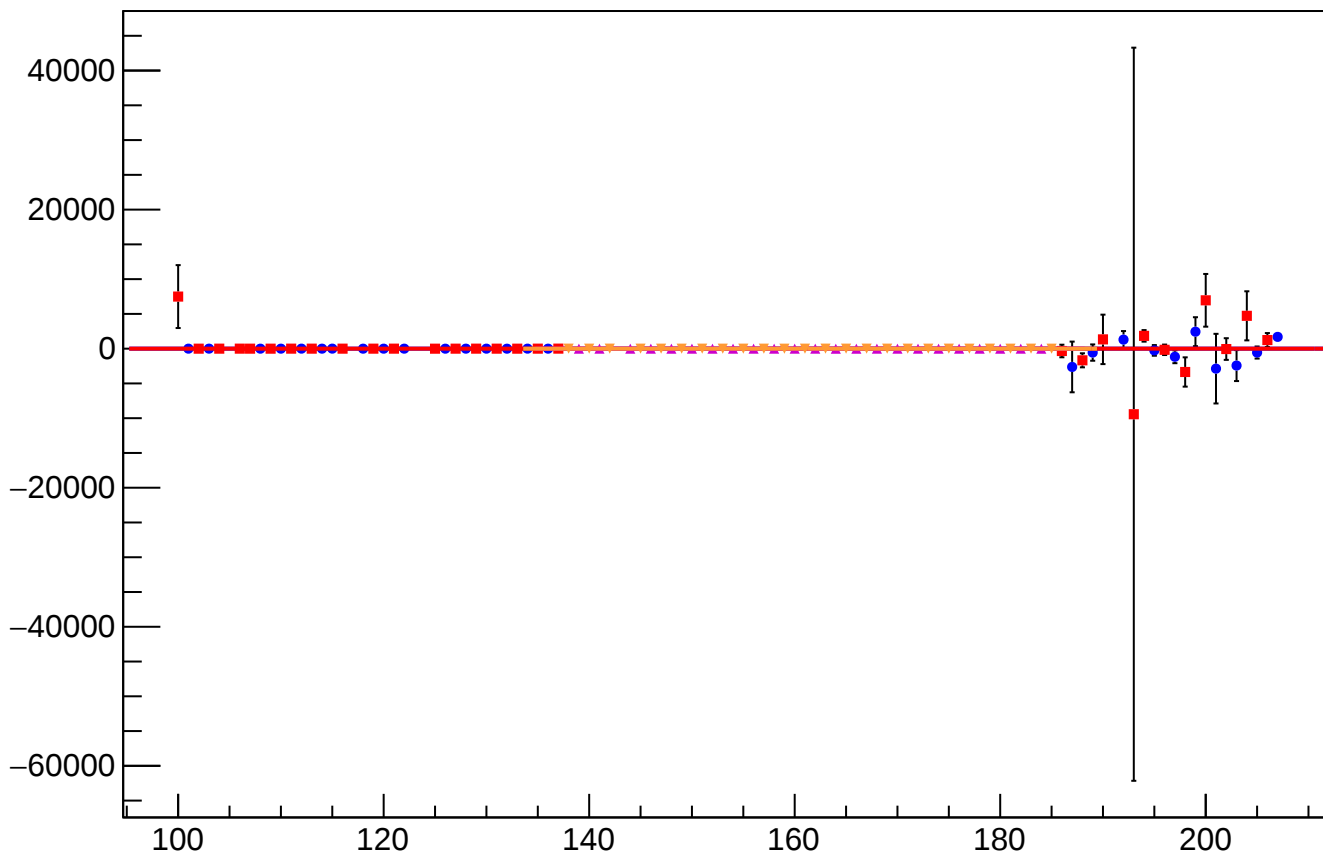
Right: 77.722 $\pm$ 0.015 χ^2 /NDF: 11898668.9/54

In: 85.010 $\pm$ 0.012 χ^2 /NDF: 6871538.6/48

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

All: 85.650 $\pm$ 0.009 χ^2 /NDF: 13289150.4/101

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 25.4/25$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 30.7/28$

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

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

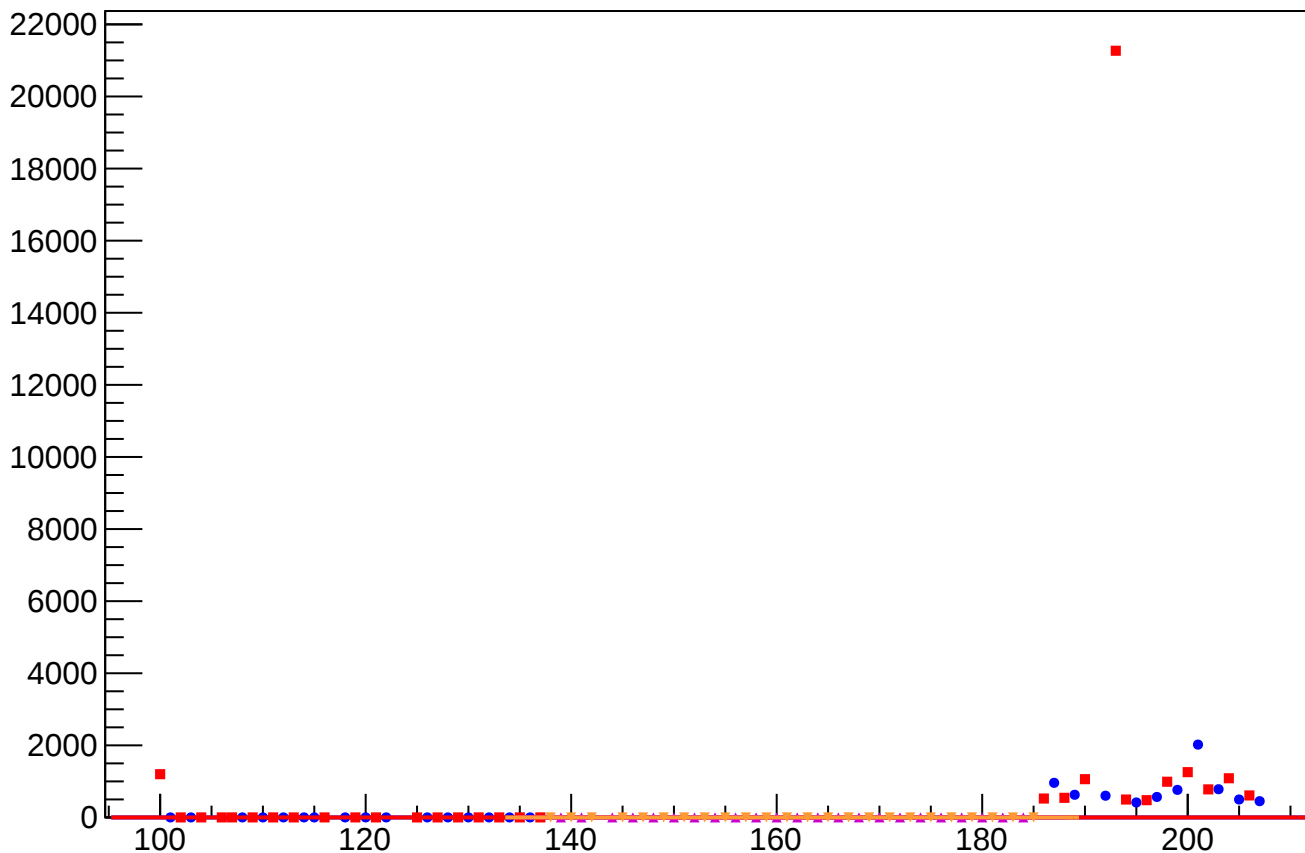
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 56.6/54$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 47.9/48$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 53.0/52$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 102.2/101$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 5592373.5/25

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

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

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

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

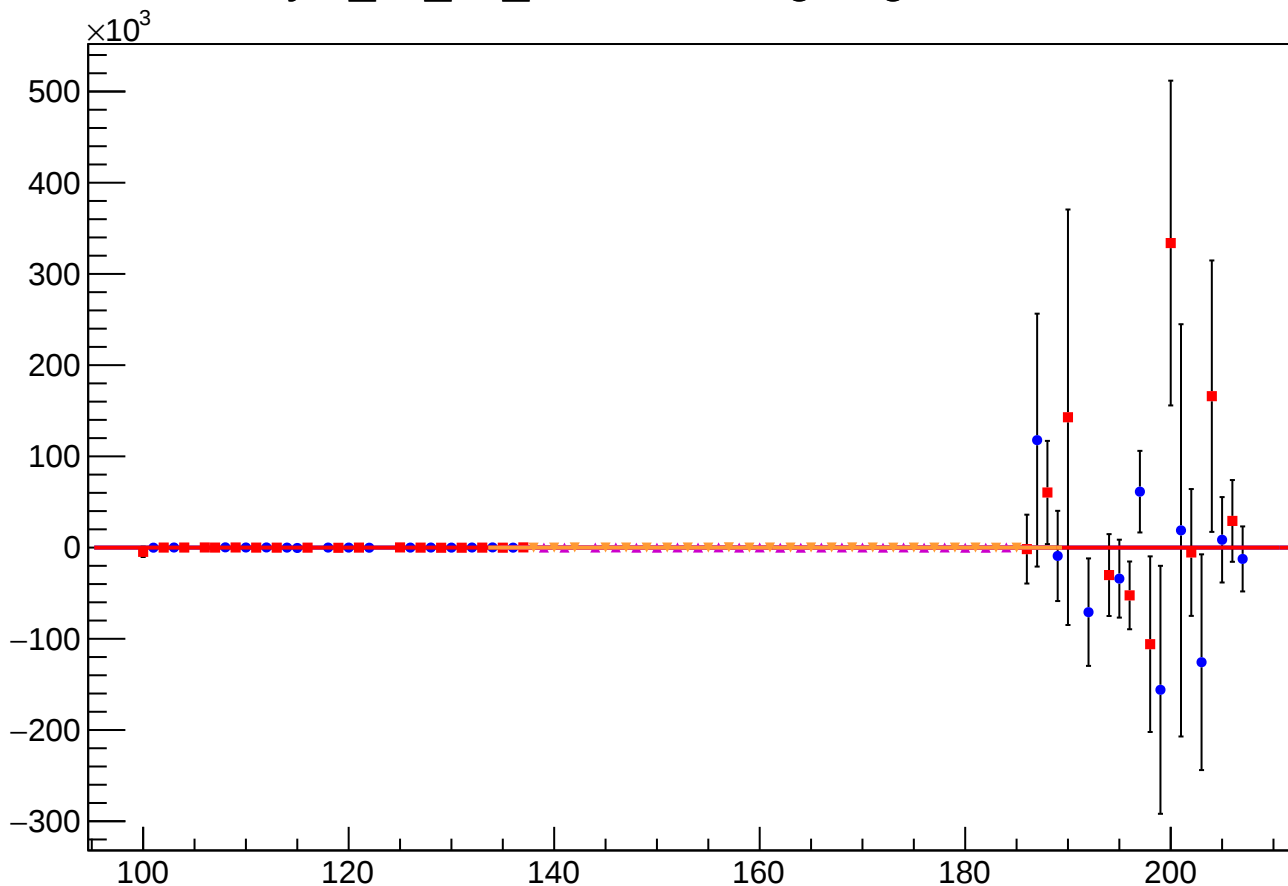
Right: 1.274+/-0.000 χ^2/NDF : 11504400.0/54

In: 1.382+/-0.000 χ^2/NDF : 6877465.3/48

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

All: 1.400+/-0.000 χ^2/NDF : 14038899.6/101

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.380 ± 30.020 $\chi^2/\text{NDF}: 21.2/25$

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

Right Out: -26.395 ± 30.482 $\chi^2/\text{NDF}: 23.4/27$

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

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

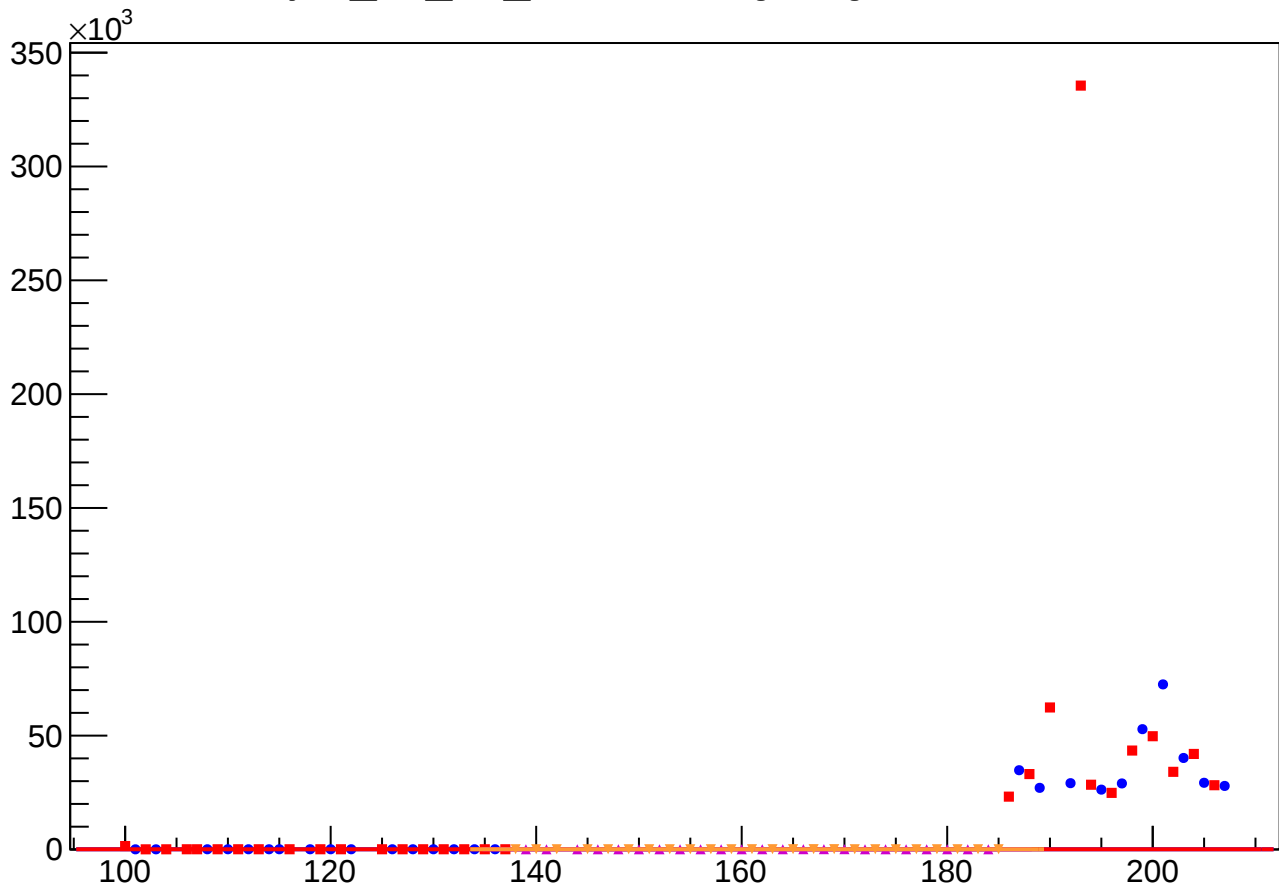
Right: -9.250 ± 21.389 $\chi^2/\text{NDF}: 45.2/53$

In: 31.446 ± 17.533 $\chi^2/\text{NDF}: 53.3/48$

Out: 1.780 ± 17.558 $\chi^2/\text{NDF}: 41.7/51$

All: 16.634 ± 12.407 $\chi^2/\text{NDF}: 96.4/100$

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.110 $\pm$ 0.021 χ^2 /NDF: 6092469.9/25

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

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

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

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

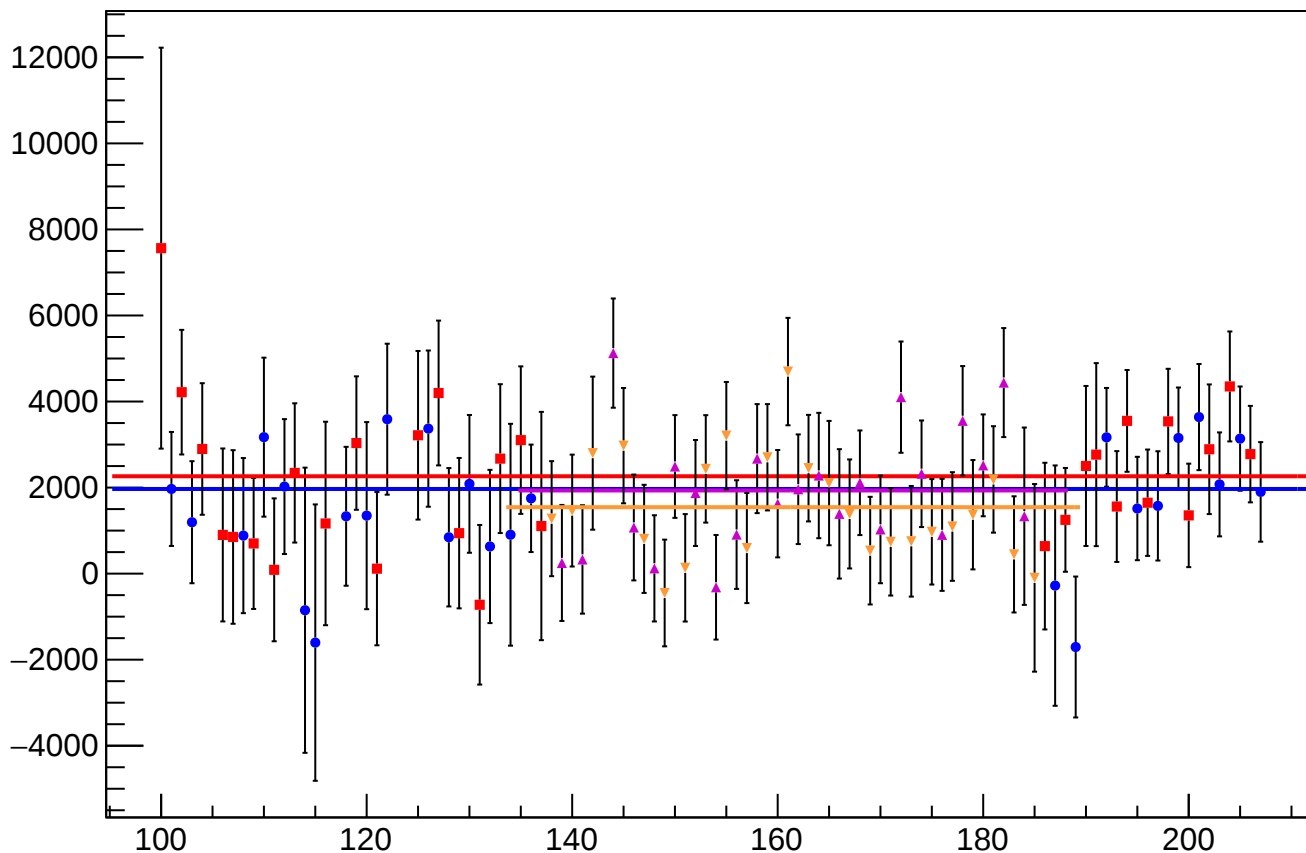
Right: 77.731 $\pm$ 0.015 χ^2 /NDF: 11907977.1/54

In: 85.034 $\pm$ 0.012 χ^2 /NDF: 6872587.0/48

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

All: 85.671 $\pm$ 0.009 χ^2 /NDF: 13301049.3/101

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1967.479 $\pm$ 295.677 χ^2 /NDF: 16.8/25

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

Right Out: 2263.177 $\pm$ 286.038 χ^2 /NDF: 22.1/29

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

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

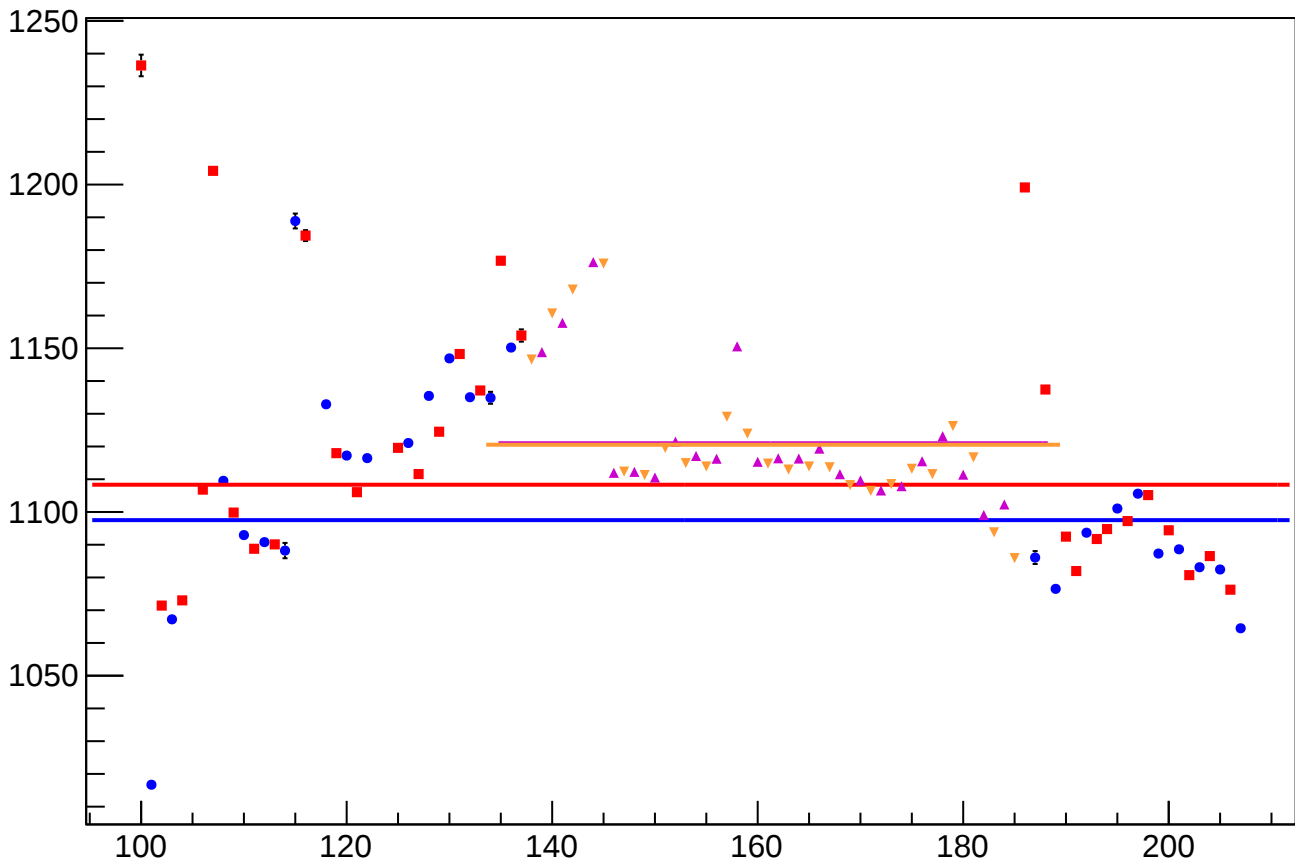
Right: 2120.226 $\pm$ 205.583 χ^2 /NDF: 39.4/55

In: 1948.551 $\pm$ 198.573 χ^2 /NDF: 43.8/48

Out: 1877.935 $\pm$ 194.895 χ^2 /NDF: 45.4/53

All: 1912.583 $\pm$ 139.094 χ^2 /NDF: 89.3/102

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1097.510 $\pm$ 0.209 χ^2 /NDF: 22670.4/25

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

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

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

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

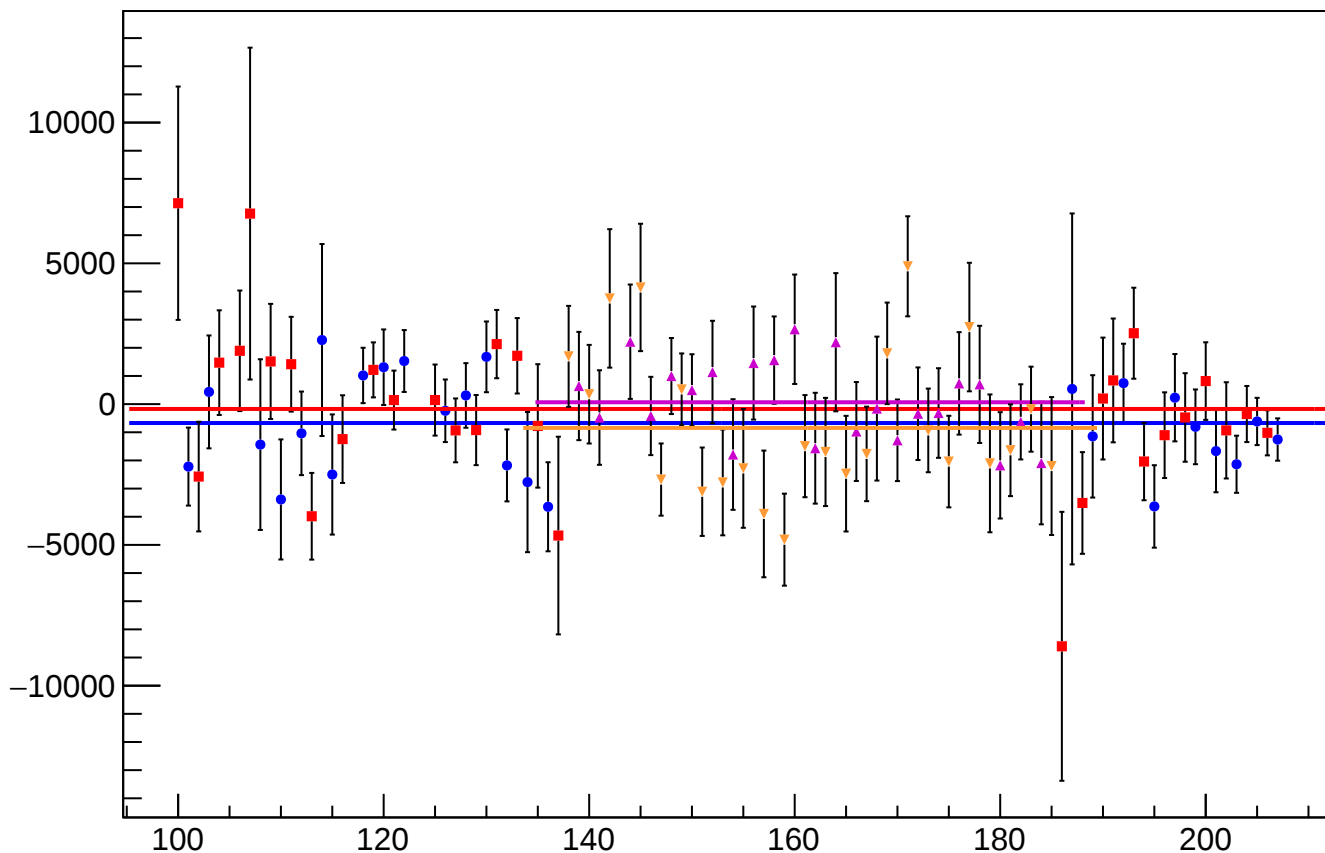
Right: 1103.097 $\pm$ 0.145 χ^2 /NDF: 50627.6/55

In: 1110.400 $\pm$ 0.140 χ^2 /NDF:39236.5/48

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

All: 1112.677 $\pm$ 0.098 χ^2 /NDF: 78535.1/102

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -671.173+/-262.799 χ^2/NDF : 32.7/25

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

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

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

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

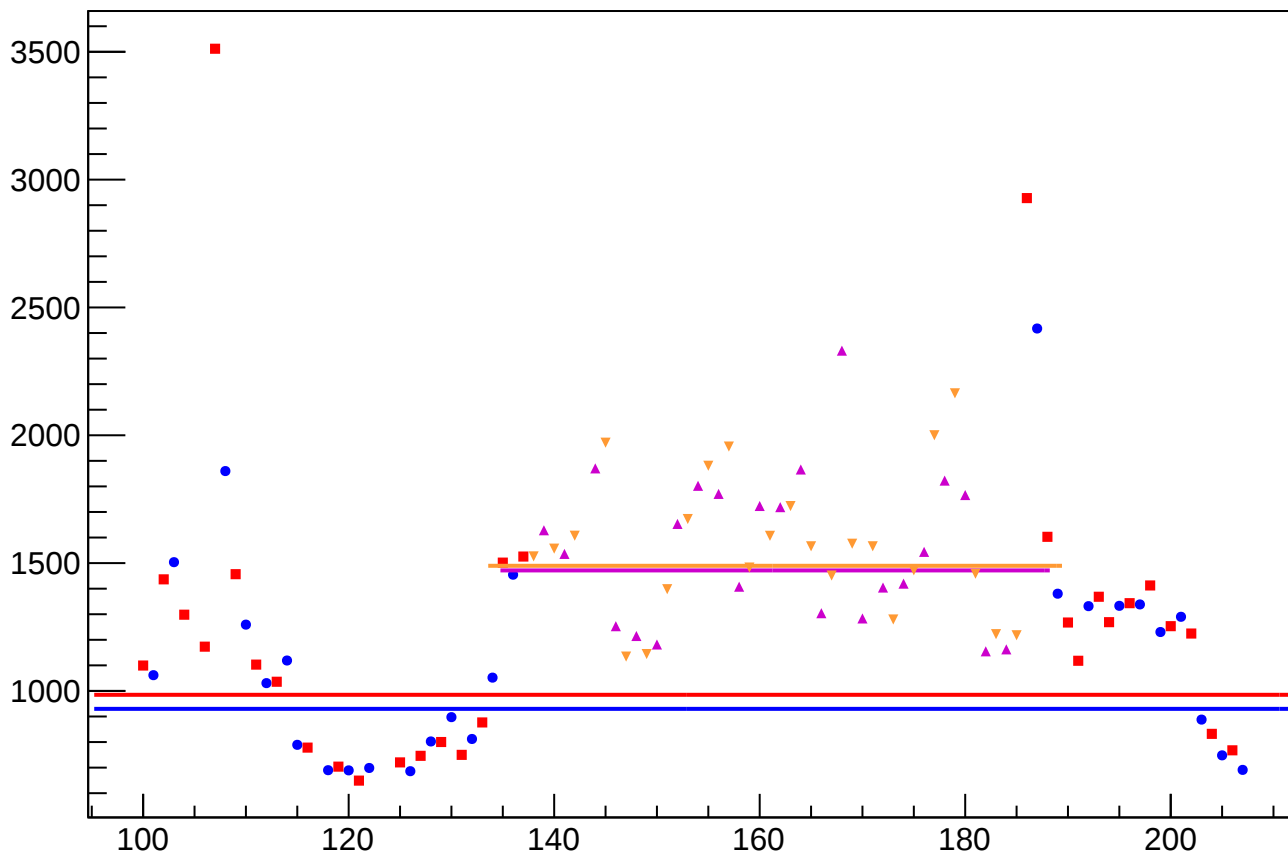
Right: -427.635+/-188.127 χ^2/NDF : 74.3/55

In: -413.862+/-212.010 χ^2/NDF : 47.5/48

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

All: -413.157+/-151.288 χ^2/NDF : 132.9/102

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 929.861+/-0.186 χ^2/NDF : 2256288.8/25

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

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

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

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

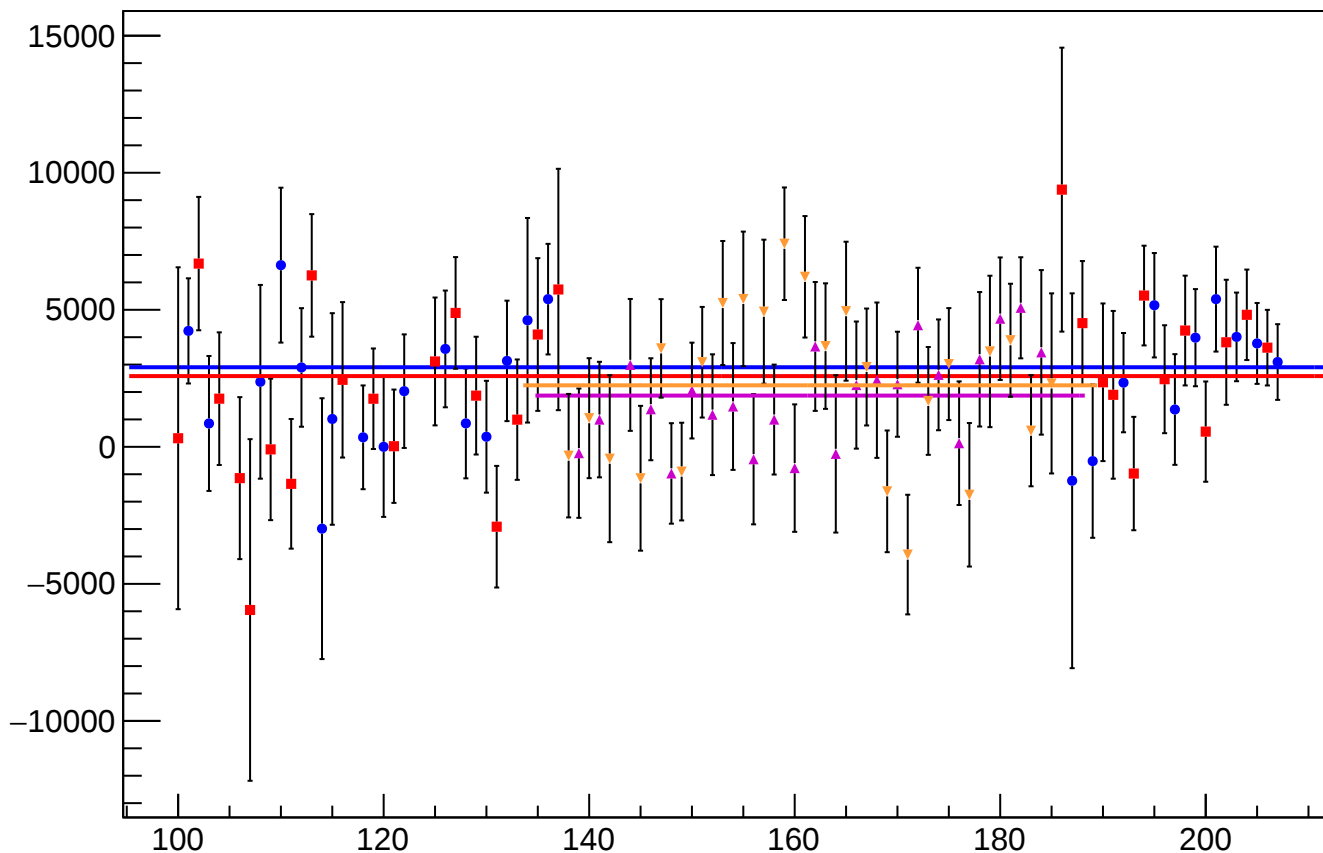
Right: 956.661+/-0.133 χ^2/NDF : 5213011.8/55

In: 1118.951+/-0.150 χ^2/NDF :6326930.6/48

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

All: 1141.692+/-0.107 χ^2/NDF : 12806275.4/106

asym_usl_mean vs Slug, Sign Corrected



Right In: 2903.668 $\pm$ 415.281 χ^2 /NDF: 19.3/25

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

Right Out: 2580.819 $\pm$ 414.905 χ^2 /NDF: 36.4/29

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

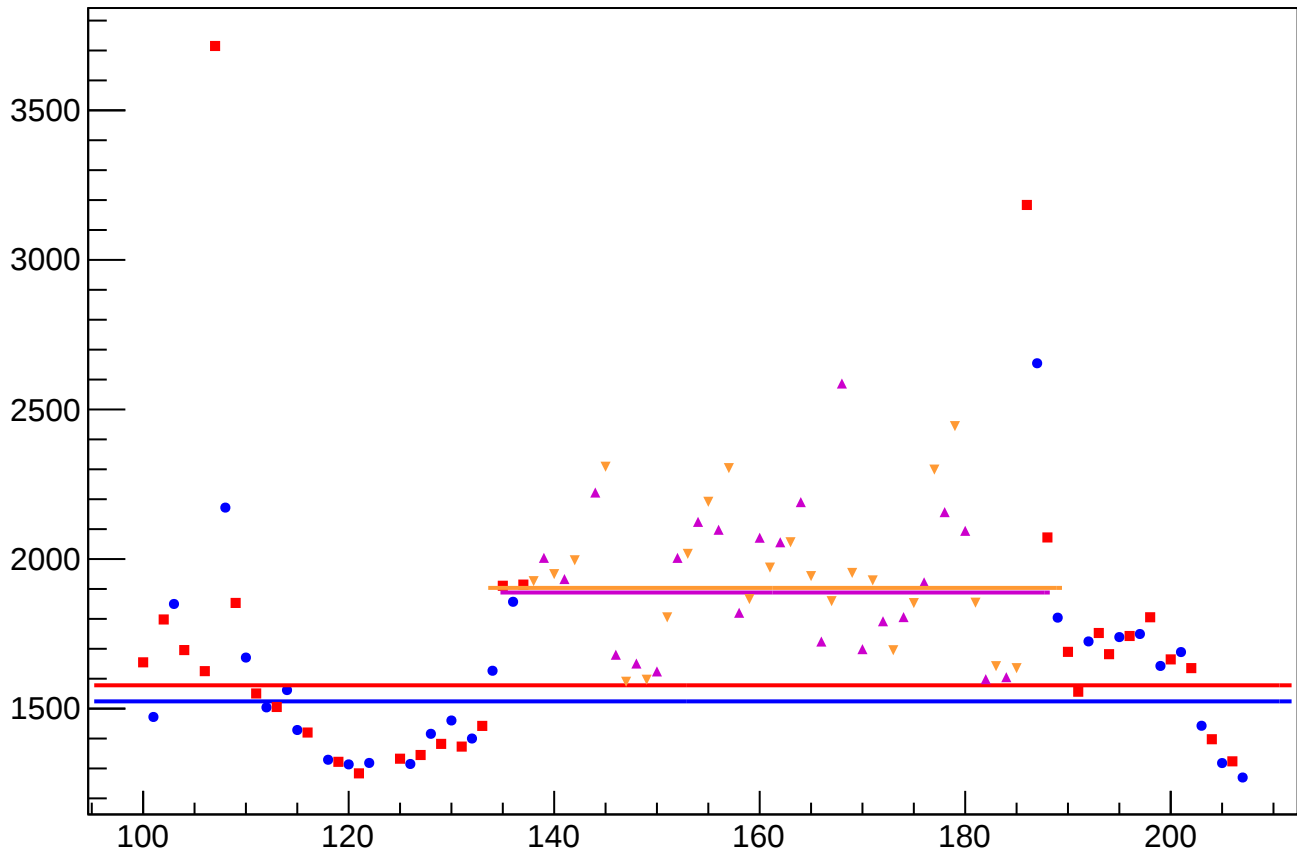
Right: 2742.097 $\pm$ 293.515 χ^2 /NDF: 56.0/55

In: 2434.341 $\pm$ 306.873 χ^2 /NDF: 37.0/48

Out: 2428.629 $\pm$ 307.029 χ^2 /NDF: 75.3/53

All: 2431.486 $\pm$ 217.047 χ^2 /NDF: 112.3/102

asym_usl_rms vs Slug, Sign Corrected



Right In: 1524.235 $\pm$ 0.294 χ^2/NDF : 539912.0/25

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

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

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

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

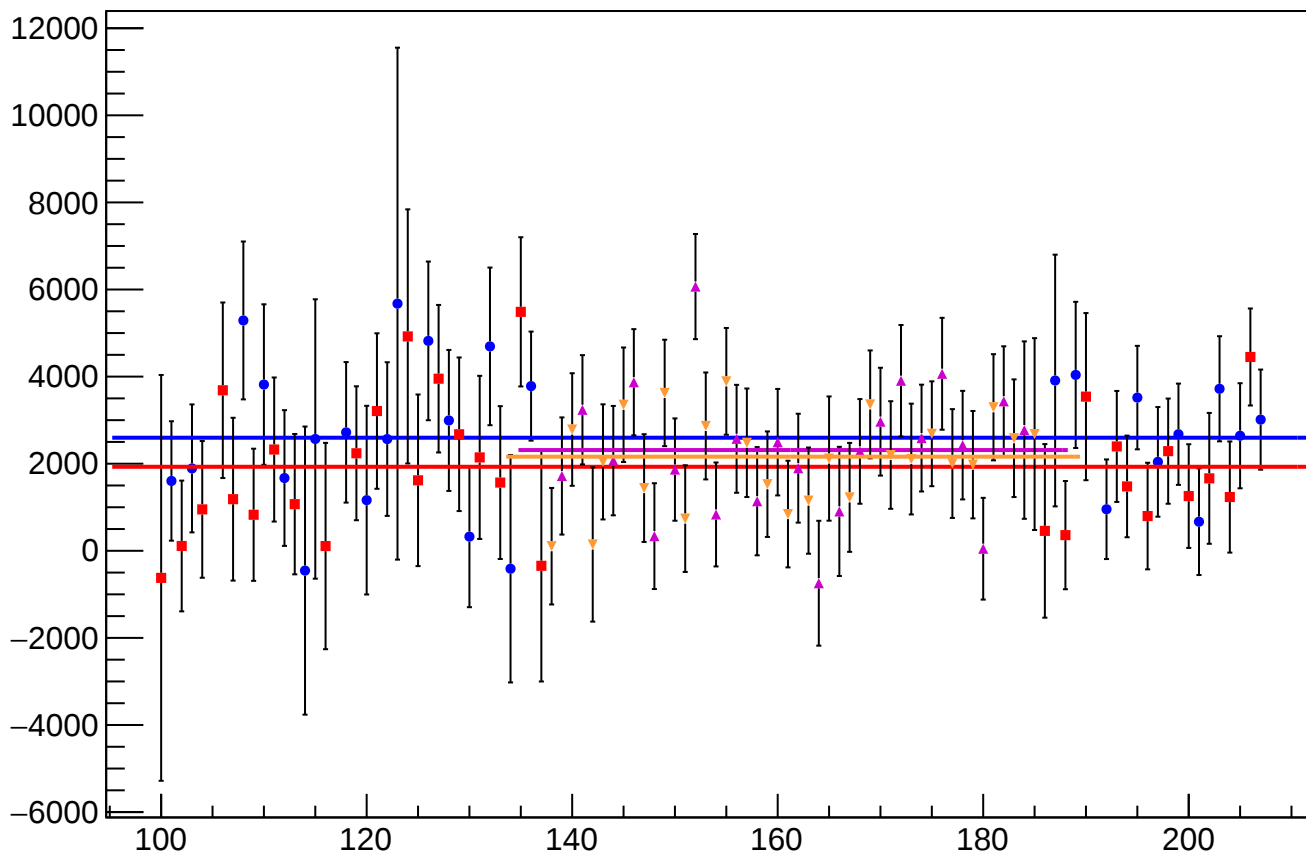
Right: 1551.117 $\pm$ 0.208 χ^2/NDF : 1502999.1/55

In: 1689.421 $\pm$ 0.217 χ^2/NDF : 1741565.3/48

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

All: 1707.335 $\pm$ 0.153 χ^2/NDF : 3720655.1/100

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2596.831 $\pm$ 296.030 χ^2 /NDF: 19.7/26

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

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

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

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

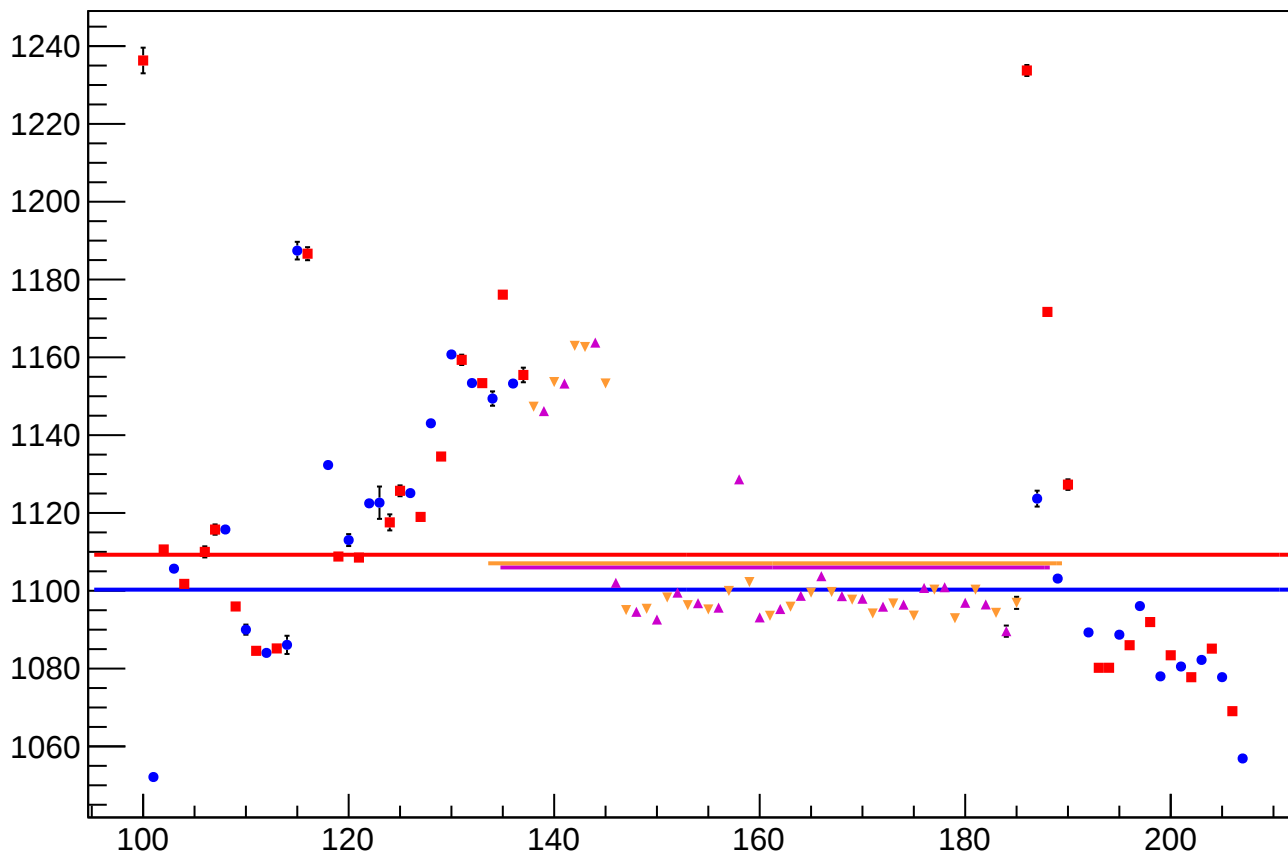
Right: 2253.354 $\pm$ 206.202 χ^2 /NDF: 45.0/56

In: 2439.244 $\pm$ 197.209 χ^2 /NDF:51.5/49

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

All: 2243.411 $\pm$ 137.491 χ^2 /NDF: 91.5/104

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1100.289 $\pm$ 0.209 χ^2 /NDF: 21979.0/26

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

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

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

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

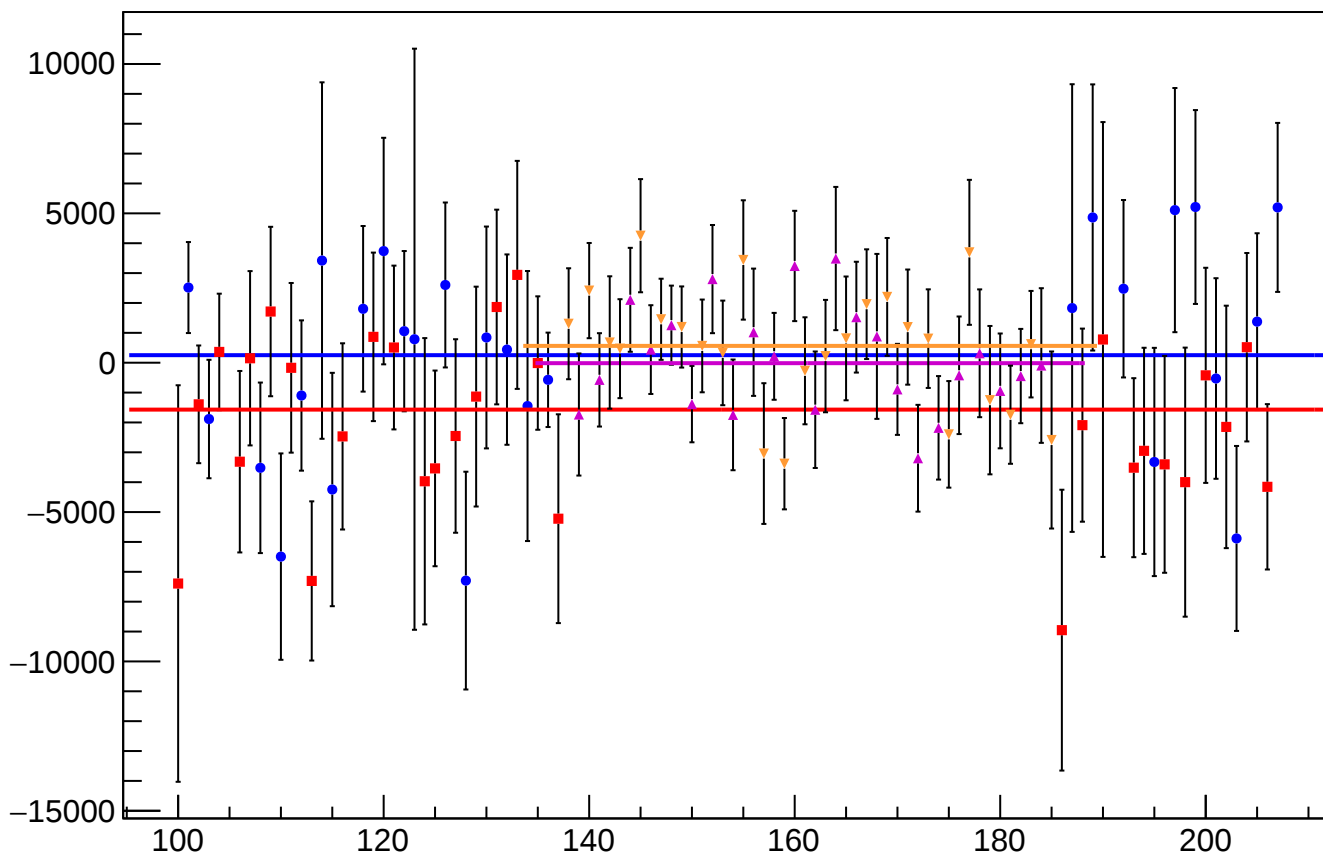
Right: 1104.907 $\pm$ 0.146 χ^2 /NDF: 56212.1/56

In: 1103.464 $\pm$ 0.139 χ^2 /NDF:33943.8/49

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

All: 1105.815 $\pm$ 0.097 χ^2 /NDF: 83025.2/104

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 252.422 $\pm$ 562.863 χ^2 /NDF: 31.0/26

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

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

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

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

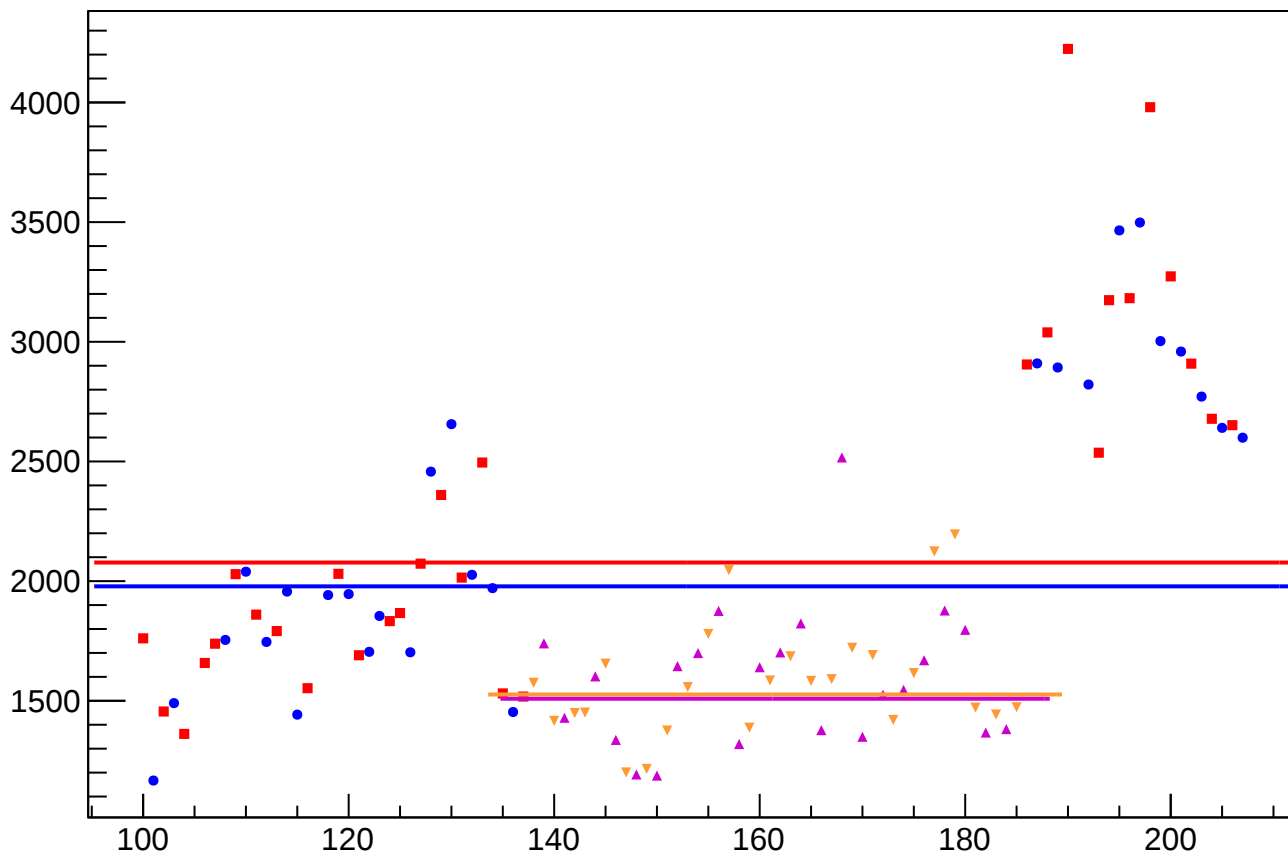
Right: -653.561 $\pm$ 399.145 χ^2 /NDF: 56.2/56

In: 64.366 $\pm$ 307.339 χ^2 /NDF:51.3/49

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

All: 5.005 $\pm$ 216.246 χ^2 /NDF: 108.2/104

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1978.214+/-0.398 χ^2/NDF : 2674057.0/26

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

Right Out: 2077.759+/-0.400 χ^2/NDF : 2559556.8/29

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

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

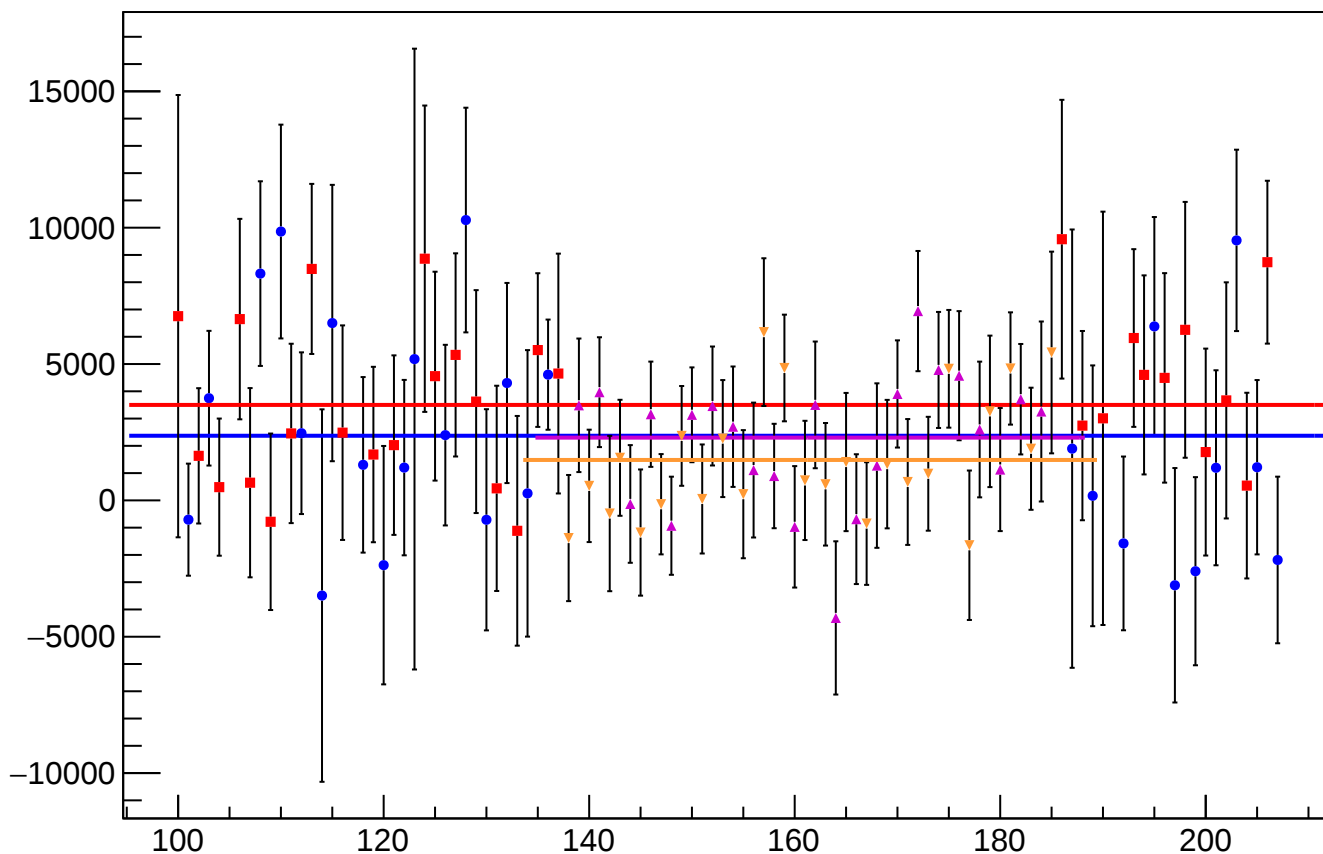
Right: 2027.701+/-0.282 χ^2/NDF : 5264711.5/56

In: 1648.600+/-0.217 χ^2/NDF : 4582953.9/49

Out: 1685.725+/-0.215 χ^2/NDF : 4662244.0/54

All: 1667.346+/-0.153 χ^2/NDF : 9259933.7/100

asym_usr_mean vs Slug, Sign Corrected



Right In: 2370.099 $\pm$ 662.461 χ^2 /NDF: 31.7/26

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

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

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

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

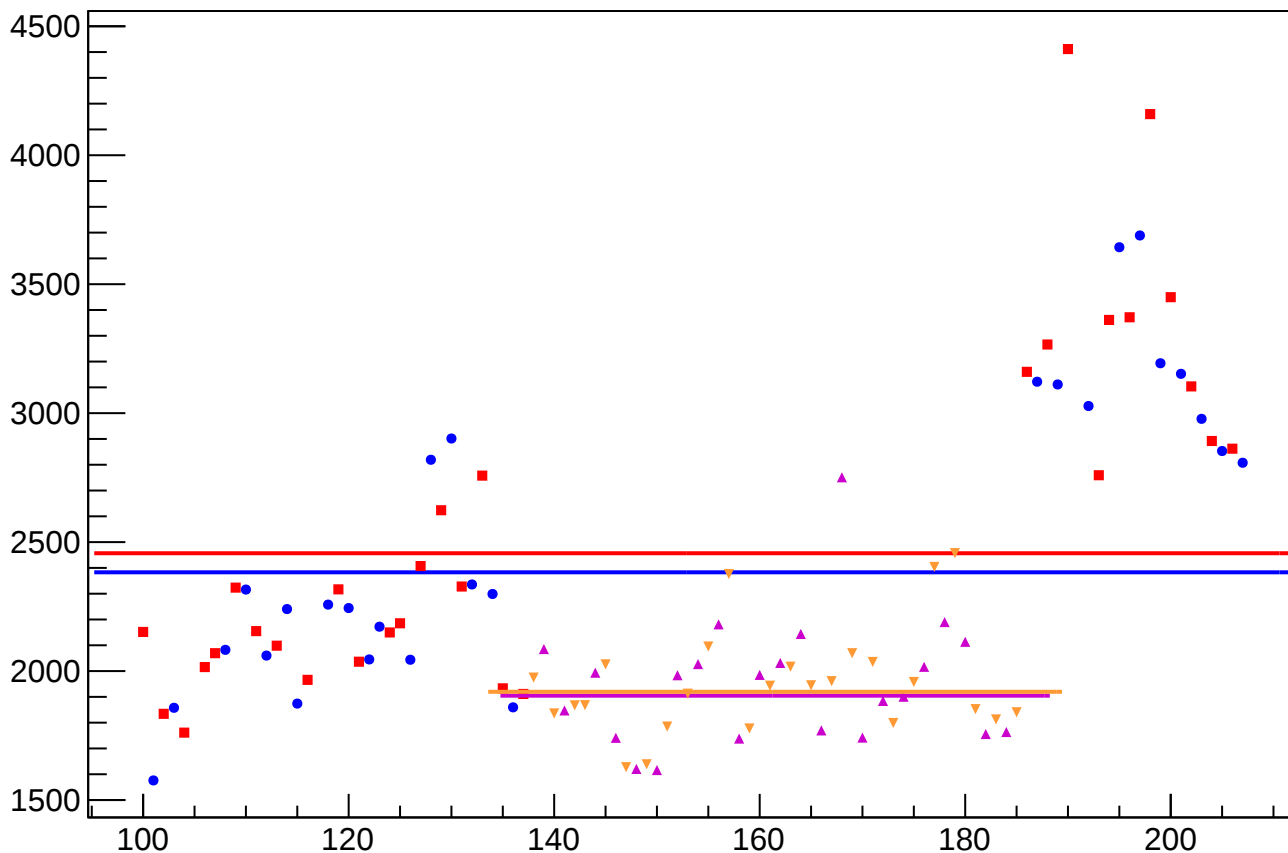
Right: 2939.951 $\pm$ 466.516 χ^2 /NDF: 51.9/56

In: 2323.582 $\pm$ 377.309 χ^2 /NDF:56.5/49

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

All: 2223.550 $\pm$ 264.636 χ^2 /NDF: 102.8/104

asym_usr_rms vs Slug, Sign Corrected



Right In: 2382.919+/-0.468 χ^2/NDF : 1575401.8/26

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

Right Out: 2456.882+/-0.465 χ^2/NDF : 1629876.6/29

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

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

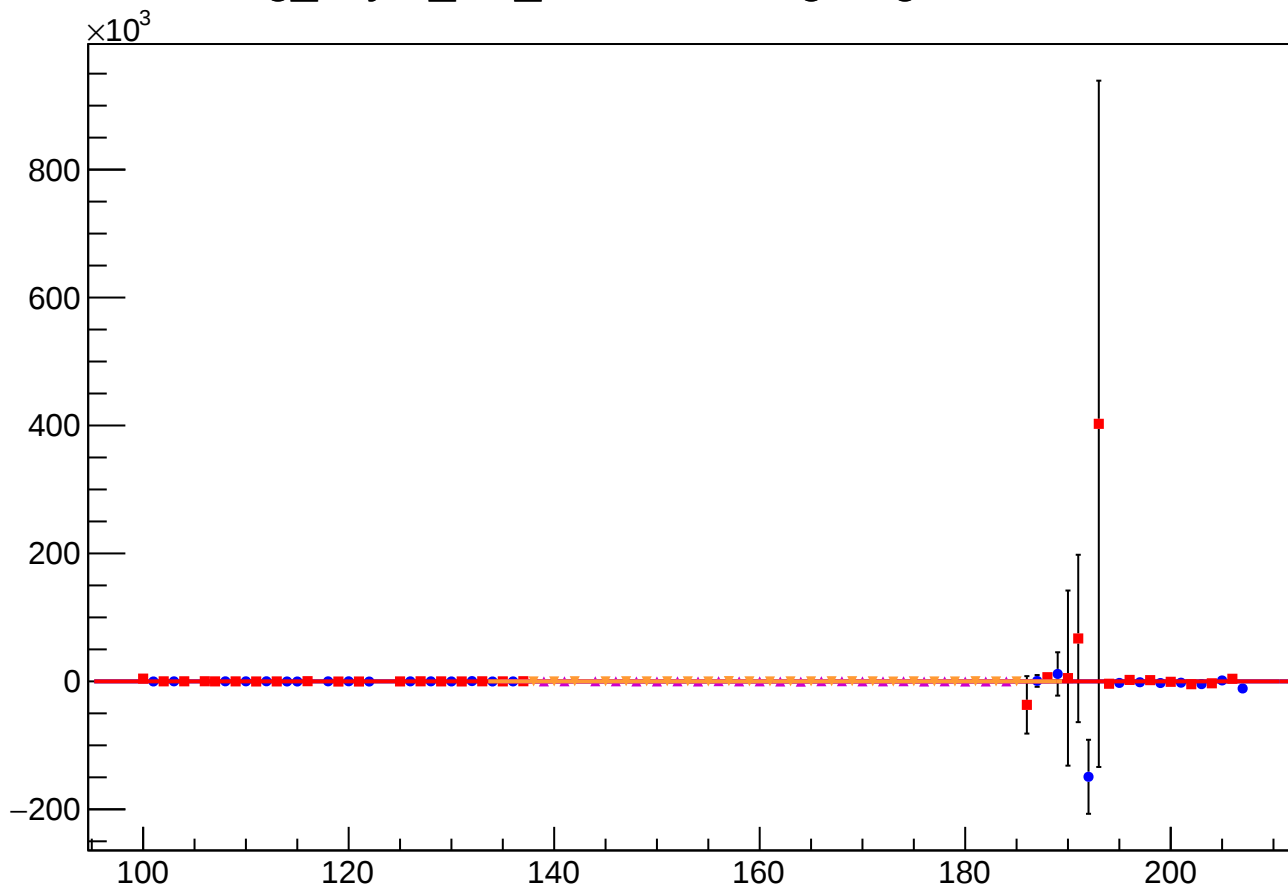
Right: 2420.202+/-0.330 χ^2/NDF : 3217845.6/56

In: 2059.784+/-0.267 χ^2/NDF : 2727099.3/49

Out: 2091.221+/-0.263 χ^2/NDF : 2905946.4/54

All: 2075.756+/-0.187 χ^2/NDF : 5640100.0/100

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.355 ± 36.762 $\chi^2/\text{NDF}: 31.5/25$

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

Right Out: 1.830 ± 36.747 $\chi^2/\text{NDF}: 19.5/29$

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

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

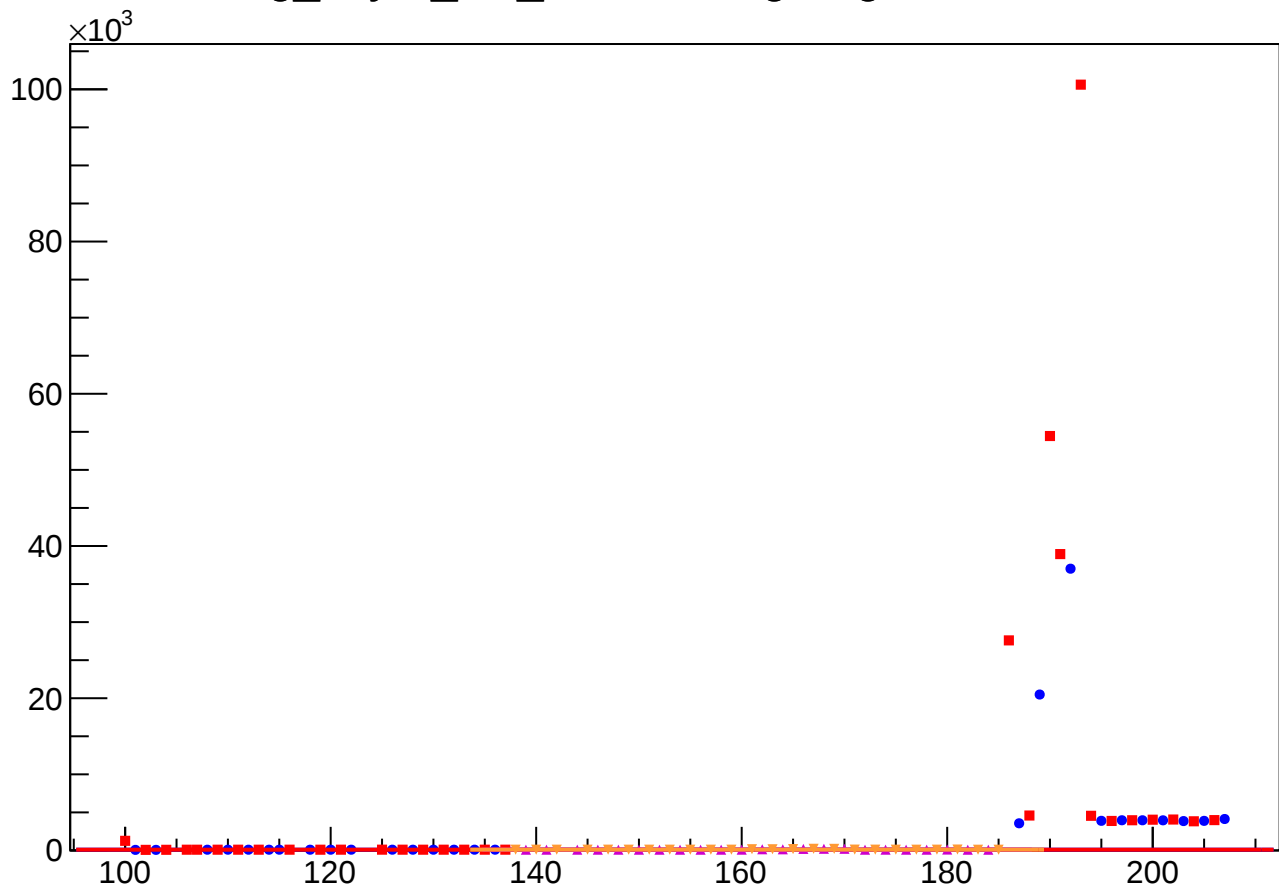
Right: -0.262 ± 25.989 $\chi^2/\text{NDF}: 50.9/55$

In: 15.578 ± 21.413 $\chi^2/\text{NDF}: 68.2/48$

Out: 8.734 ± 21.365 $\chi^2/\text{NDF}: 55.4/53$

All: 12.148 ± 15.124 $\chi^2/\text{NDF}: 123.7/102$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.035+/-0.026

χ^2/NDF : 12792232.7/25

Left Out: 108.059+/-0.019

χ^2/NDF : 1434979.3/23

Right Out: 98.228+/-0.026

χ^2/NDF : 12431916.1/29

Left In: 107.672+/-0.019

χ^2/NDF : 1491034.7/22

Left: 107.867+/-0.013

χ^2/NDF : 2926230.6/46

Right: 97.132+/-0.018

χ^2/NDF : 25227707.7/55

In: 103.724+/-0.015

χ^2/NDF : 14415692.6/48

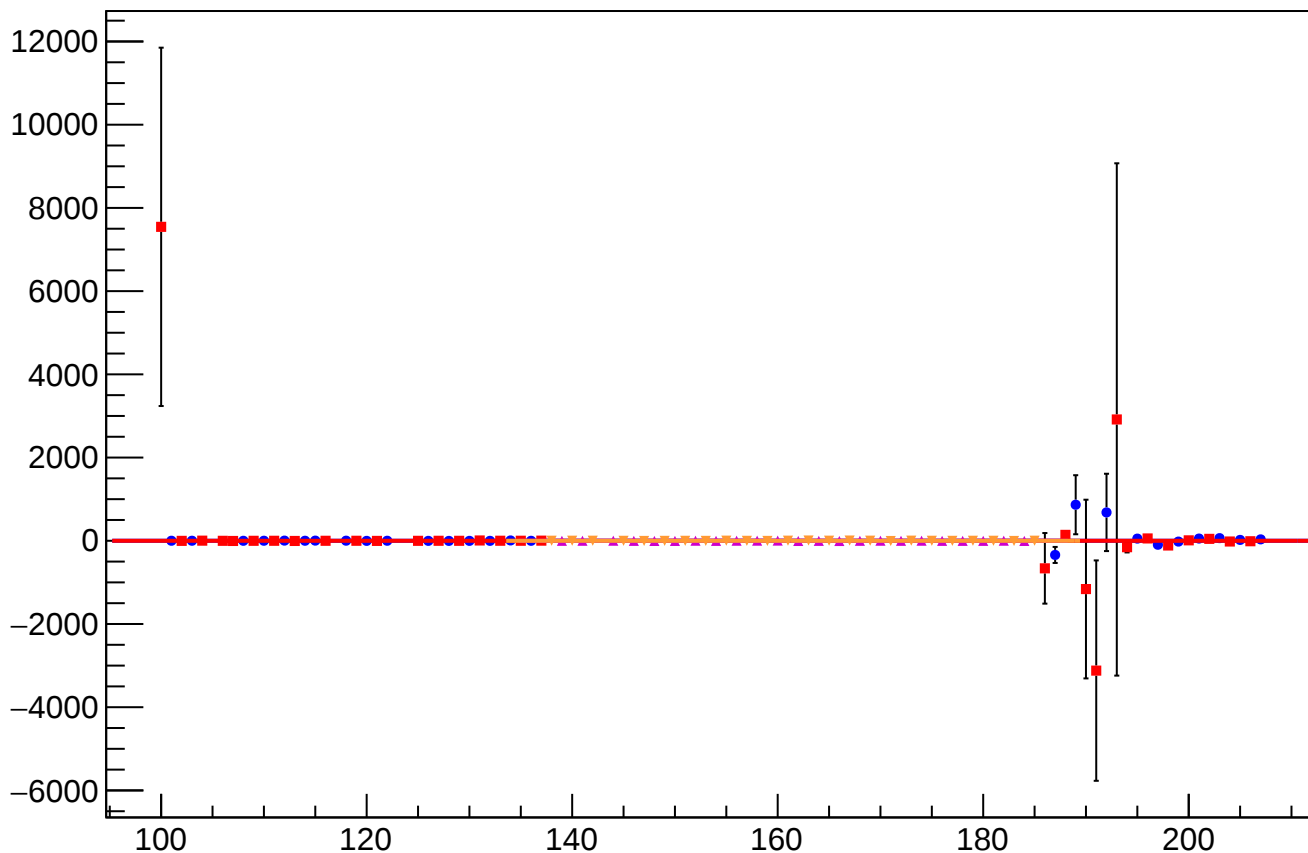
Out: 104.736+/-0.015

χ^2/NDF : 13961669.2/53

All: 104.231+/-0.011

χ^2/NDF : 28379599.9/10

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397+/-0.617 χ^2 /NDF: 19.4/25

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

Right Out: -0.347+/-0.644 χ^2 /NDF: 29.7/29

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

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

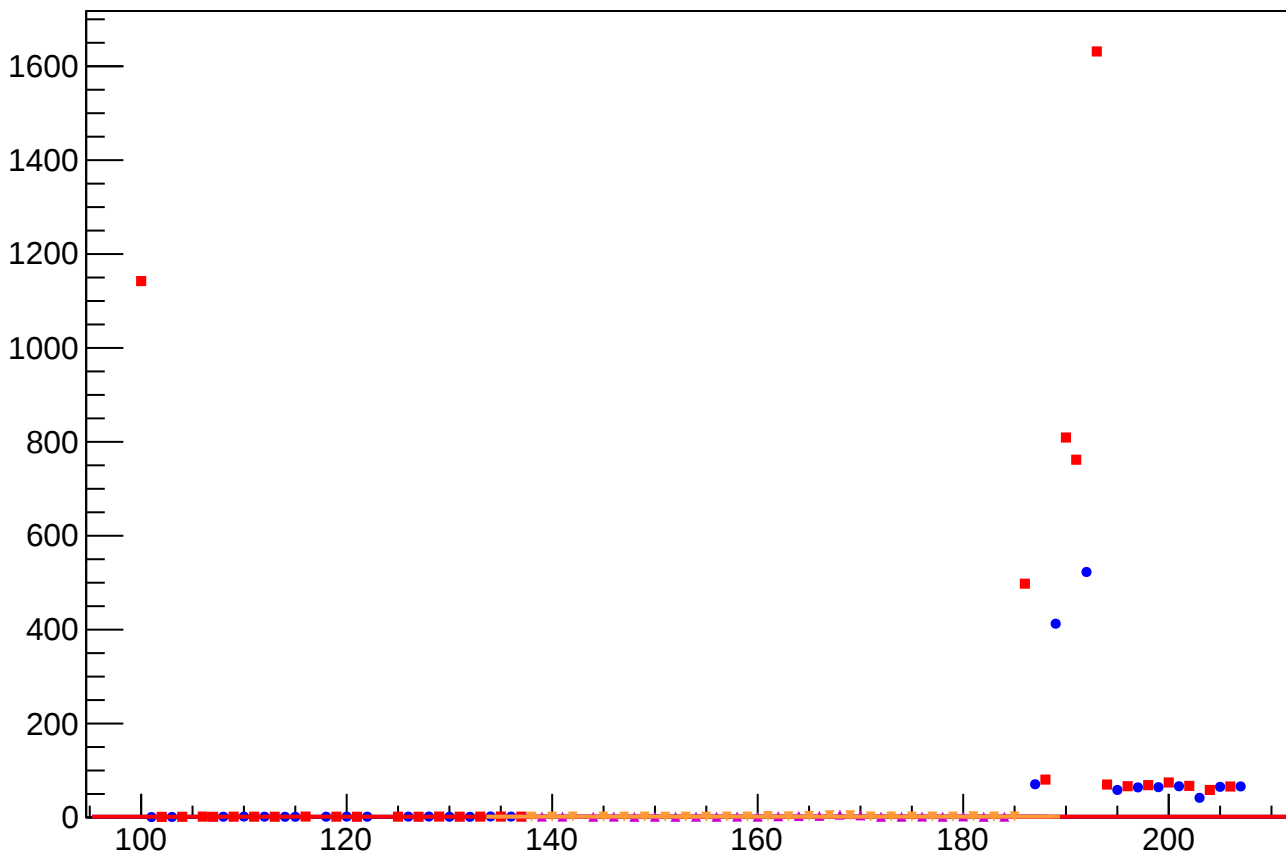
Right: 0.041+/-0.445 χ^2 /NDF: 49.8/55

In: 0.110+/-0.381 χ^2 /NDF:44.7/48

Out: -0.468+/-0.382 χ^2 /NDF:60.3/53

All: -0.178+/-0.270 χ^2 /NDF: 106.2/102

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.450+/-0.000 χ^2/NDF : 11087832.5/25

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

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

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

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

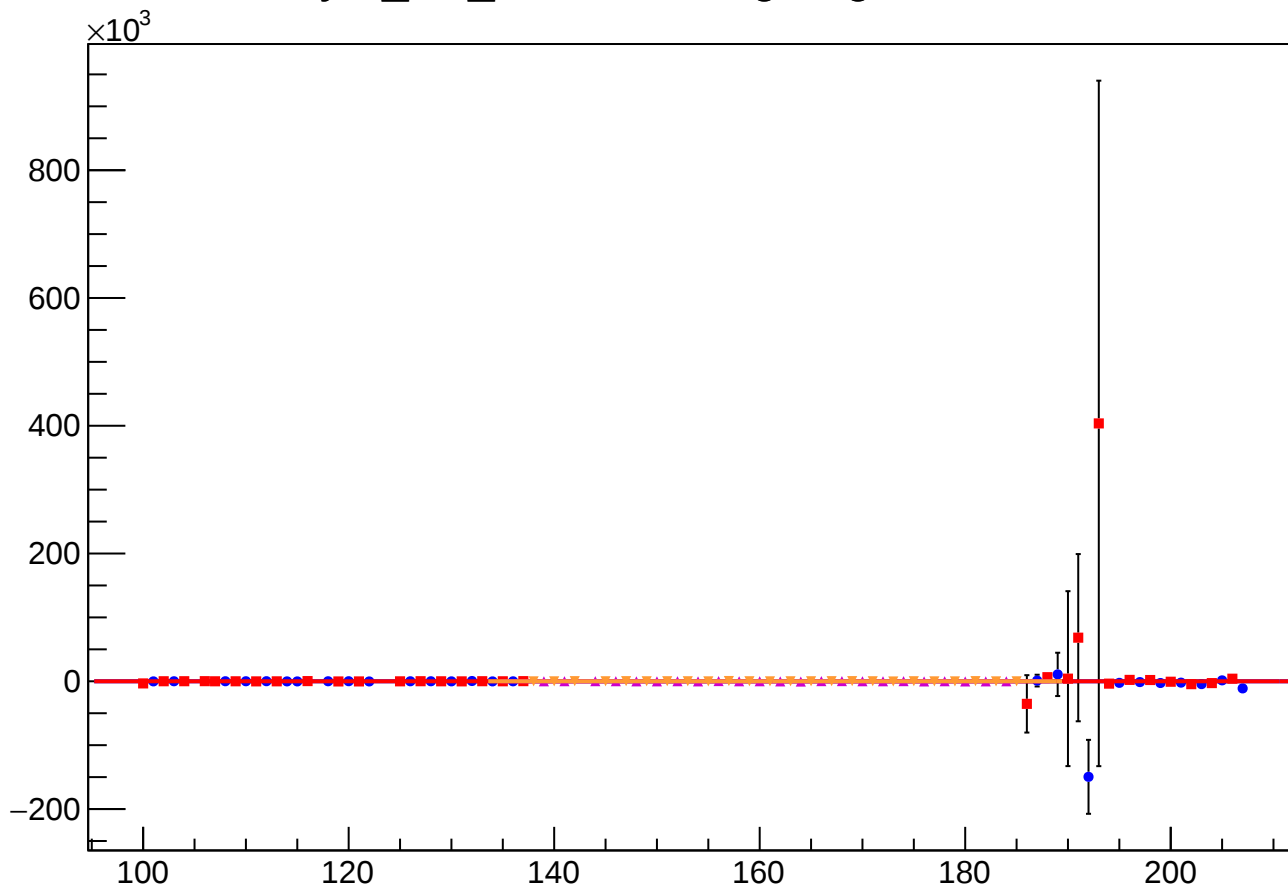
Right: 1.514+/-0.000 χ^2/NDF : 22076460.9/55

In: 1.668+/-0.000 χ^2/NDF :13413675.0/48

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

All: 1.687+/-0.000 χ^2/NDF : 26075305.4/102

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.069 ± 36.772 χ^2/NDF : 31.8/25

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

Right Out: 1.595 ± 36.757 χ^2/NDF : 18.9/29

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

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

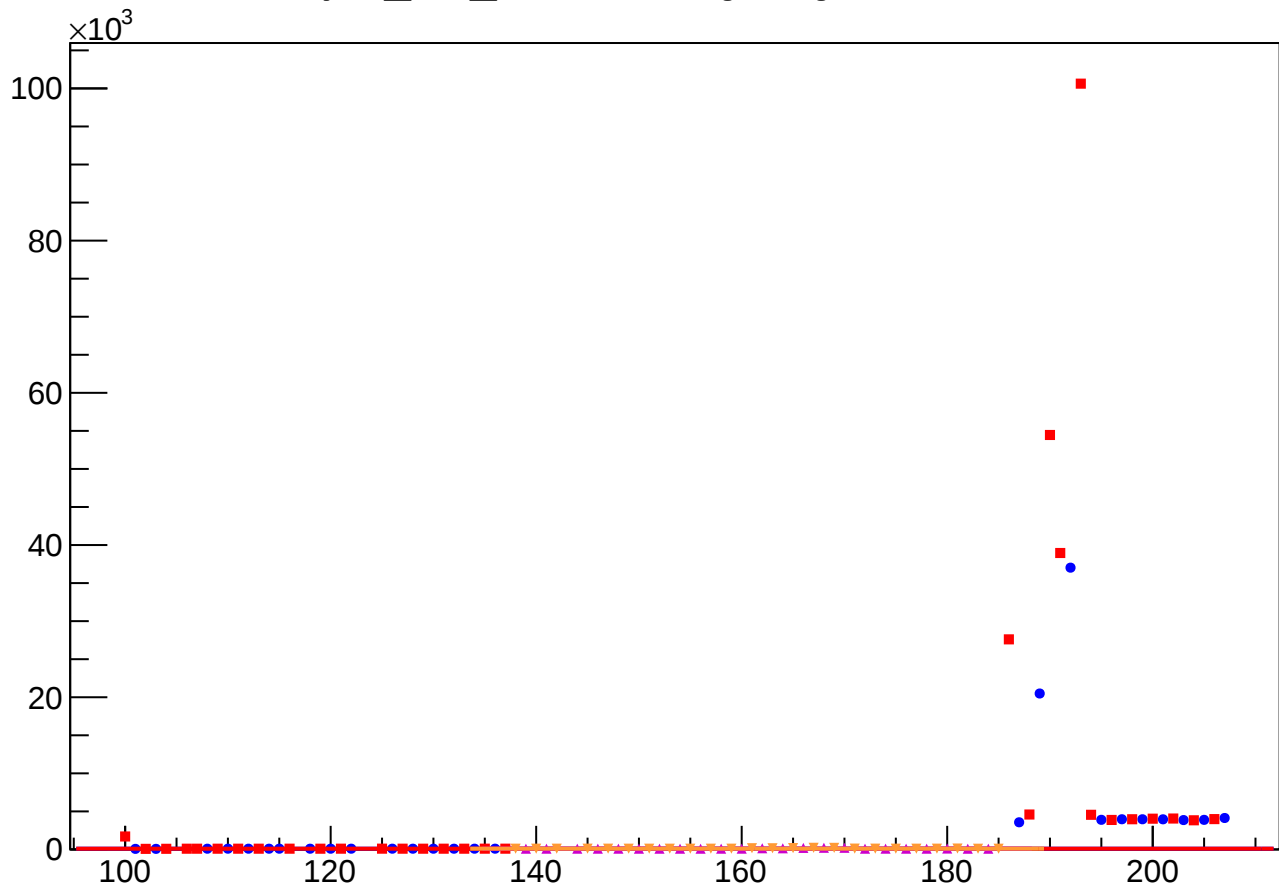
Right: -0.236 ± 25.996 χ^2/NDF : 50.7/55

In: 16.021 ± 21.419 χ^2/NDF : 67.8/48

Out: 9.110 ± 21.372 χ^2/NDF : 54.7/53

All: 12.558 ± 15.129 χ^2/NDF : 122.6/102

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.060 $\pm$ 0.026 χ^2 /NDF: 12792226.8/25

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

Right Out: 98.237 $\pm$ 0.026 χ^2 /NDF: 12437194.6/29

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

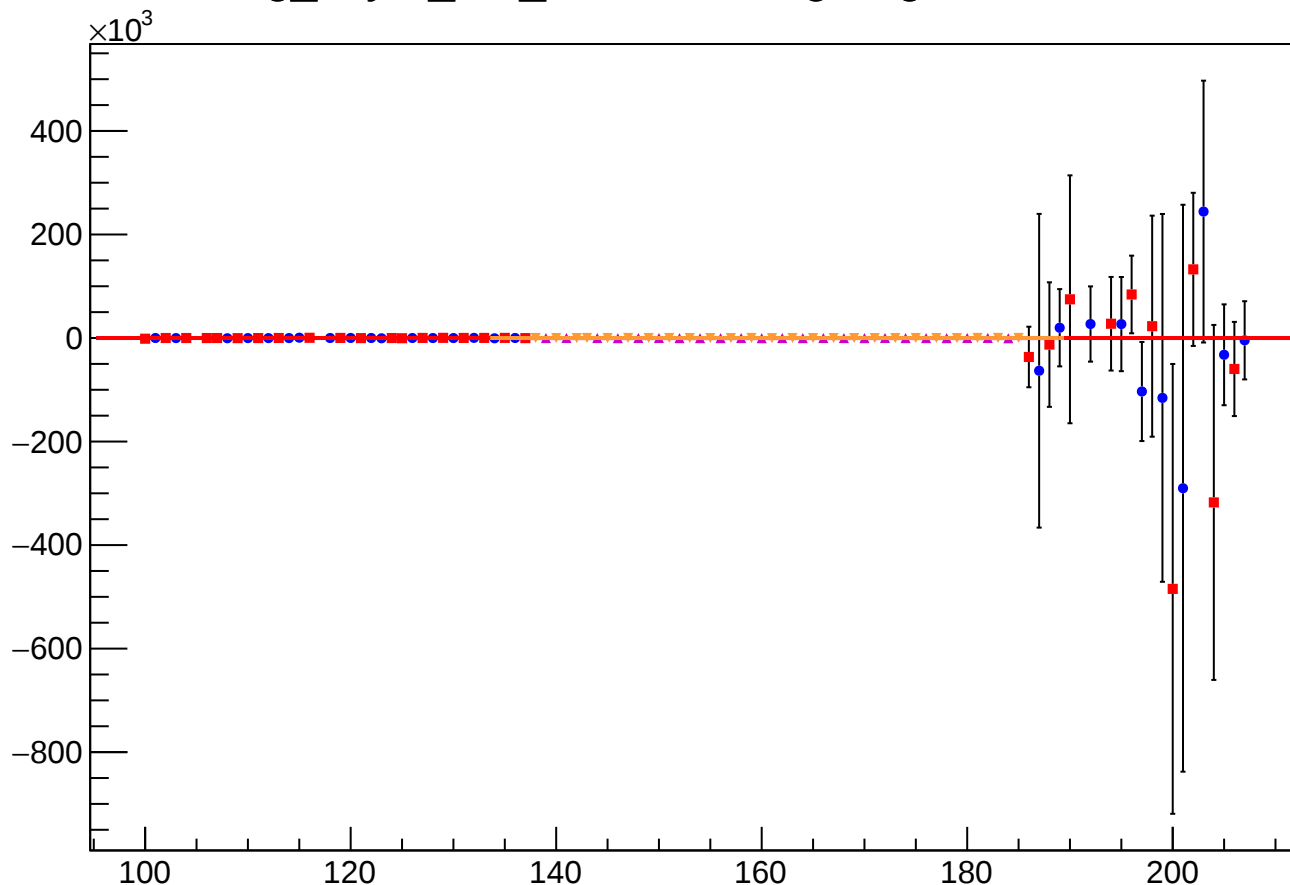
Right: 97.149 $\pm$ 0.018 χ^2 /NDF: 25232928.6/55

In: 103.752 $\pm$ 0.015 χ^2 /NDF: 14417054.3/48

Out: 104.759 $\pm$ 0.015 χ^2 /NDF: 13968697.5/53

All: 104.257 $\pm$ 0.011 χ^2 /NDF: 28387966.3/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.802 ± 46.841 $\chi^2/\text{NDF}: 17.4/26$

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

Right Out: 53.389 ± 47.775 $\chi^2/\text{NDF}: 20.6/28$

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

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

Right: 12.502 ± 33.447 $\chi^2/\text{NDF}: 39.4/55$

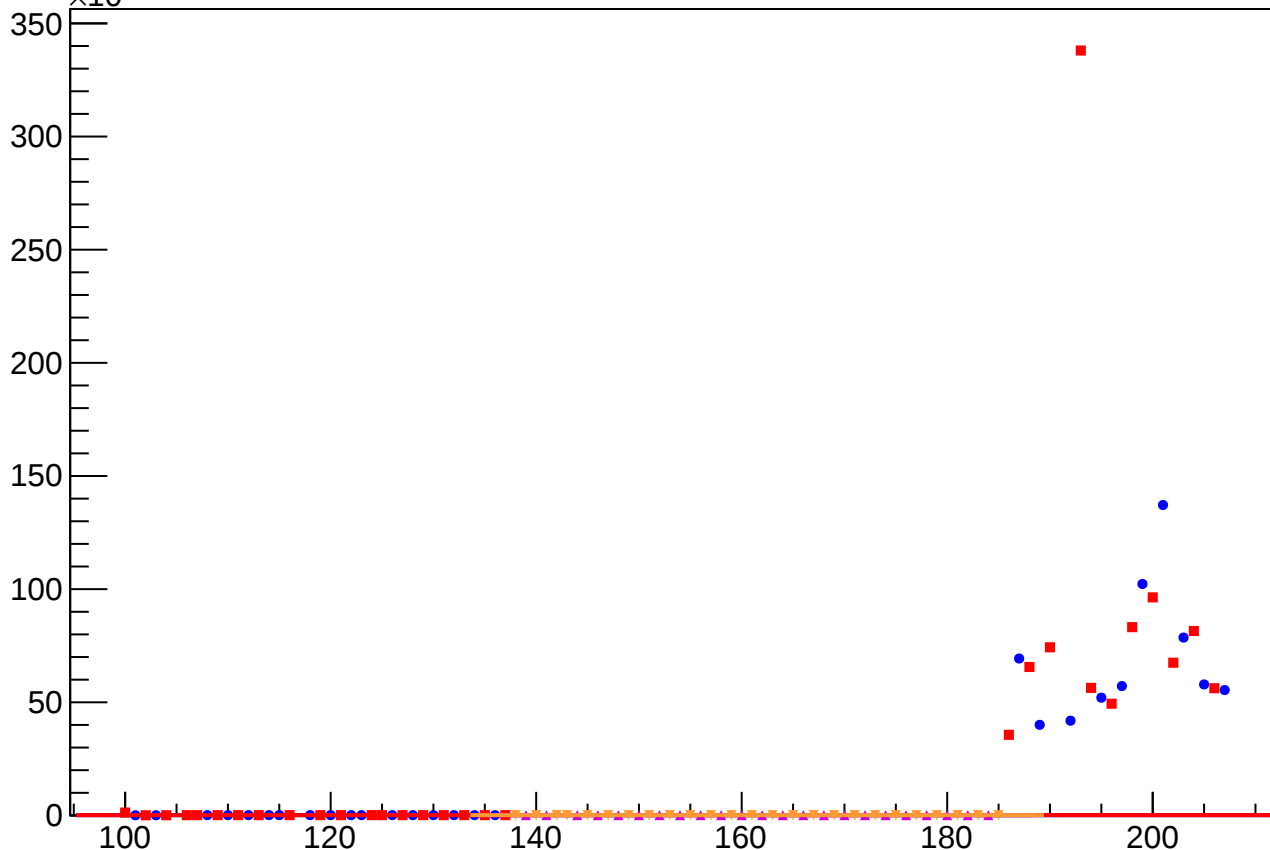
In: -52.583 ± 26.947 $\chi^2/\text{NDF}: 37.1/49$

Out: 7.734 ± 26.623 $\chi^2/\text{NDF}: 33.9/53$

All: -22.060 ± 18.939 $\chi^2/\text{NDF}: 73.6/103$

reg_asym_dsr_rms vs Slug, Sign Corrected

$\times 10^3$



Right In: 117.877 $\pm$ 0.033 χ^2 /NDF: 6424205.5/26

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

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

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

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

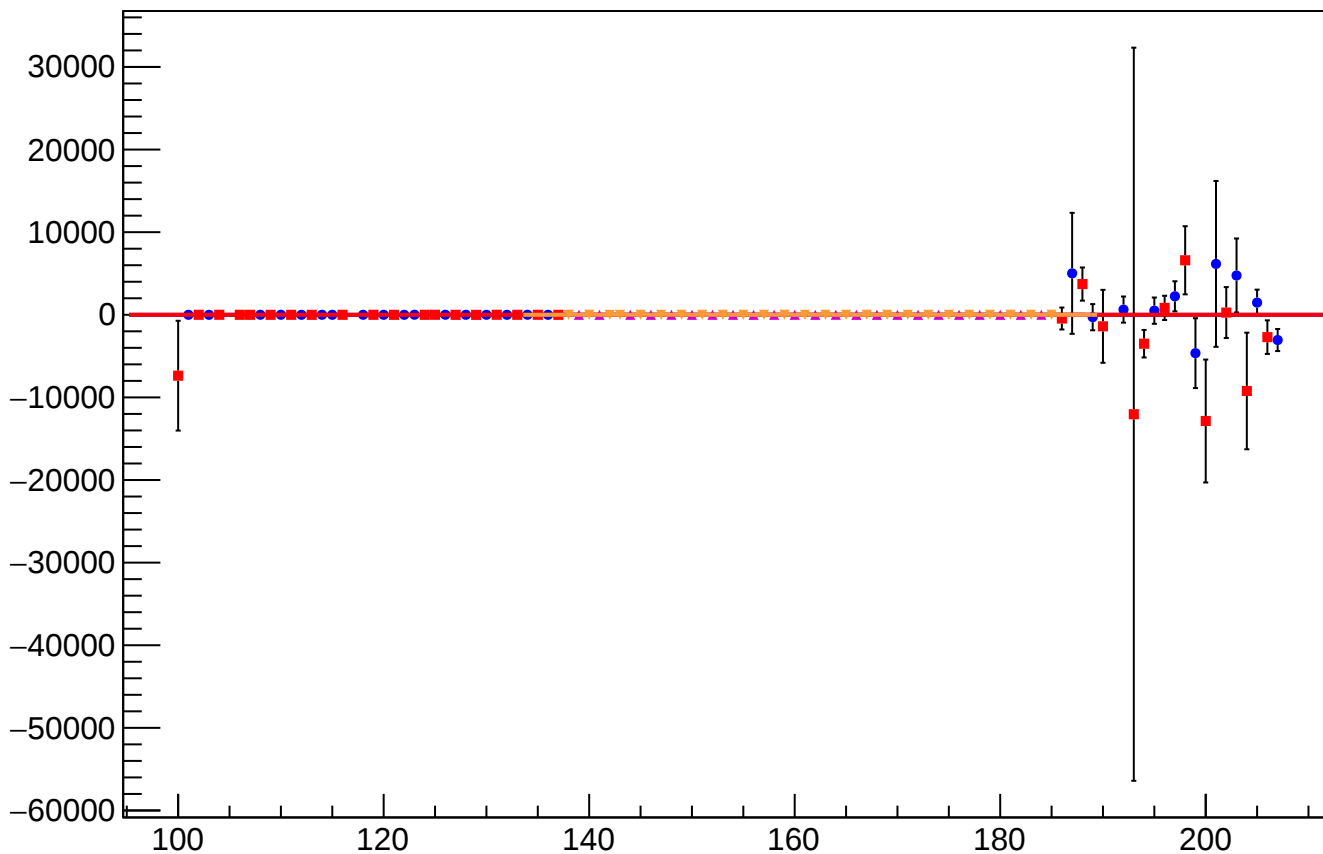
Right: 121.288 $\pm$ 0.024 χ^2 /NDF: 12505672.9/56

In: 131.210 $\pm$ 0.019 χ^2 /NDF:6666843.7/49

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

All: 132.527 $\pm$ 0.013 χ^2 /NDF: 12838988.0/10

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 23.3/26

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

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

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

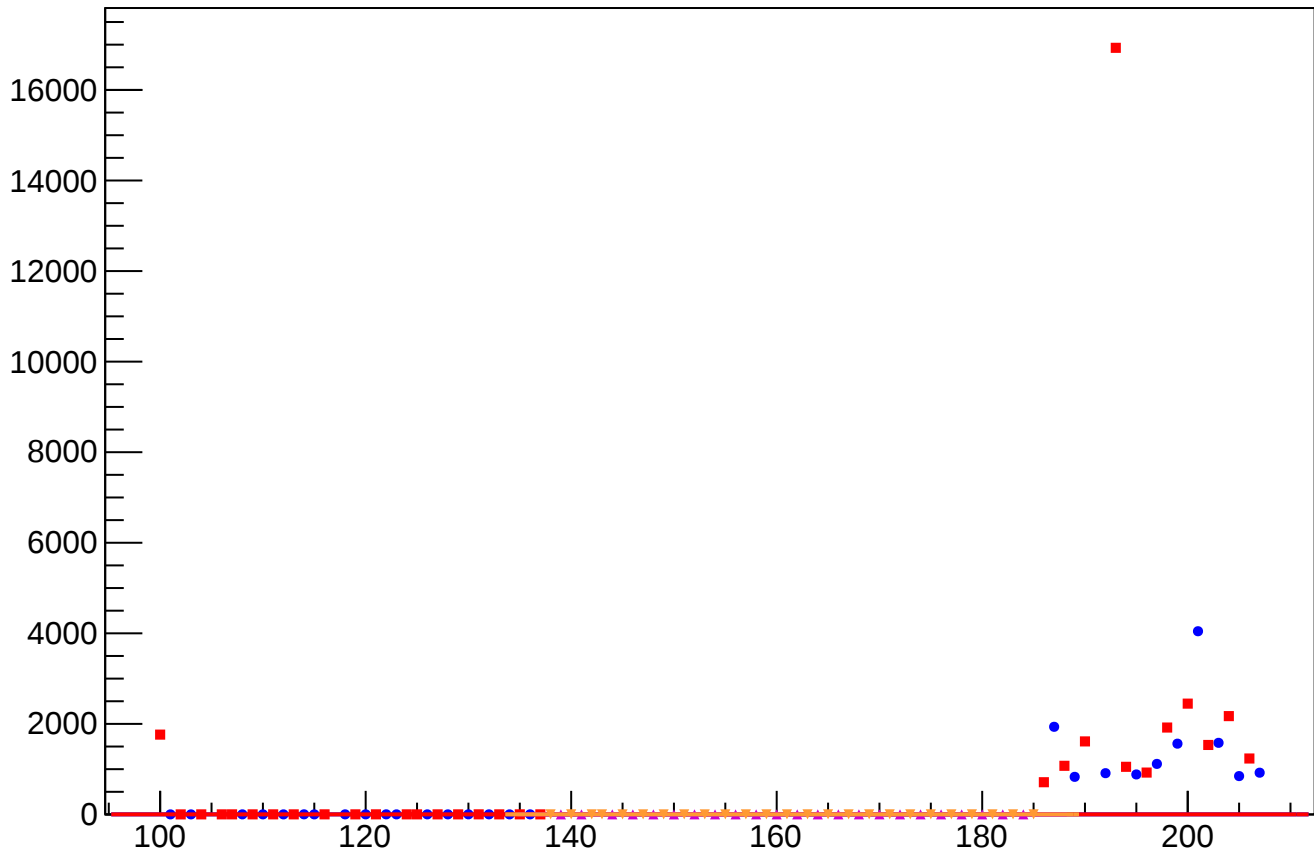
Right: -0.681 ± 0.587 χ^2/NDF : 55.5/56

In: -0.052 ± 0.471 χ^2/NDF : 45.0/49

Out: 0.139 ± 0.475 χ^2/NDF : 62.4/54

All: 0.043 ± 0.334 χ^2/NDF : 107.4/104

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 5578692.3/26

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

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

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

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

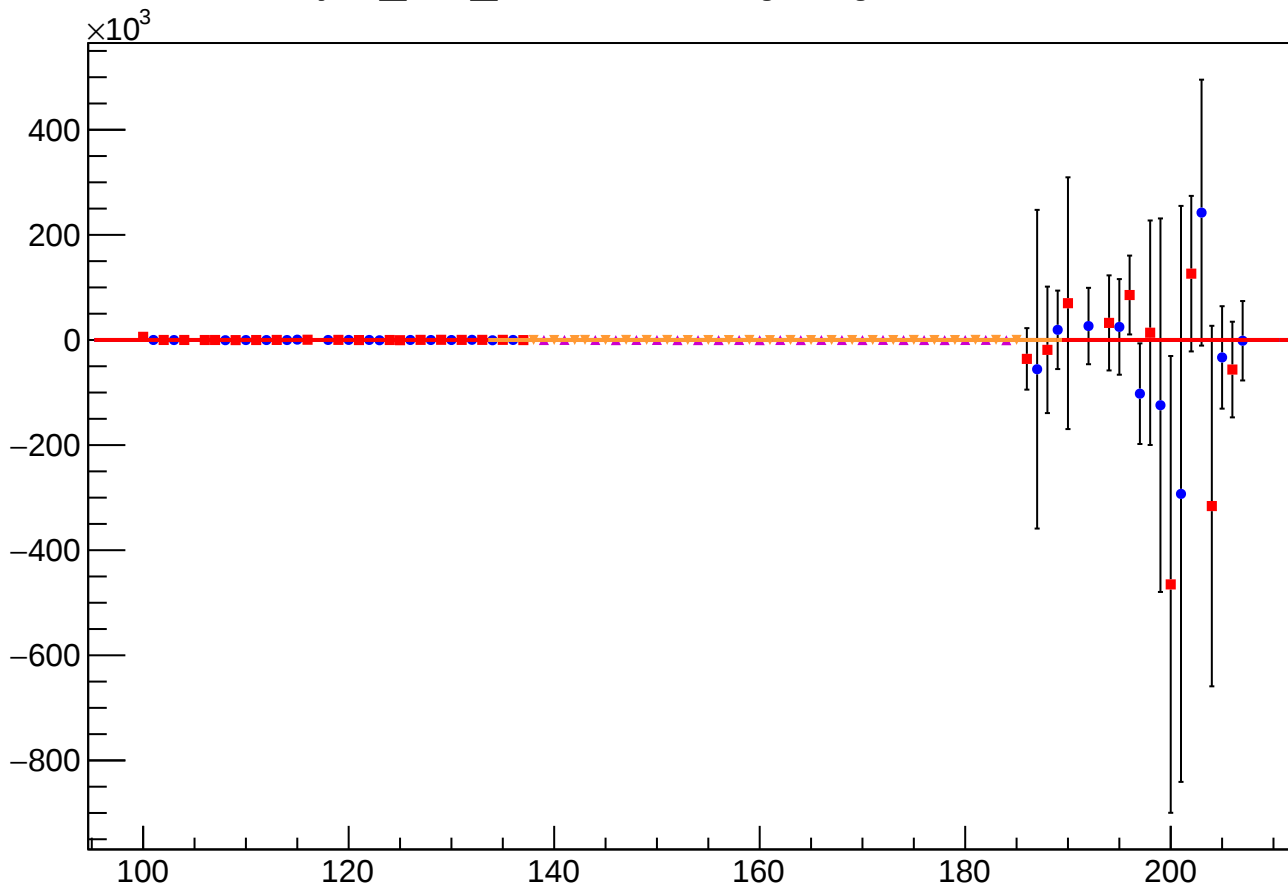
Right: 1.961+/-0.000 χ^2/NDF : 11516588.8/56

In: 2.083+/-0.000 χ^2/NDF : 6303980.9/49

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

All: 2.141+/-0.000 χ^2/NDF : 12695816.6/104

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064+/-46.854 χ^2/NDF : 17.4/26

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

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

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

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

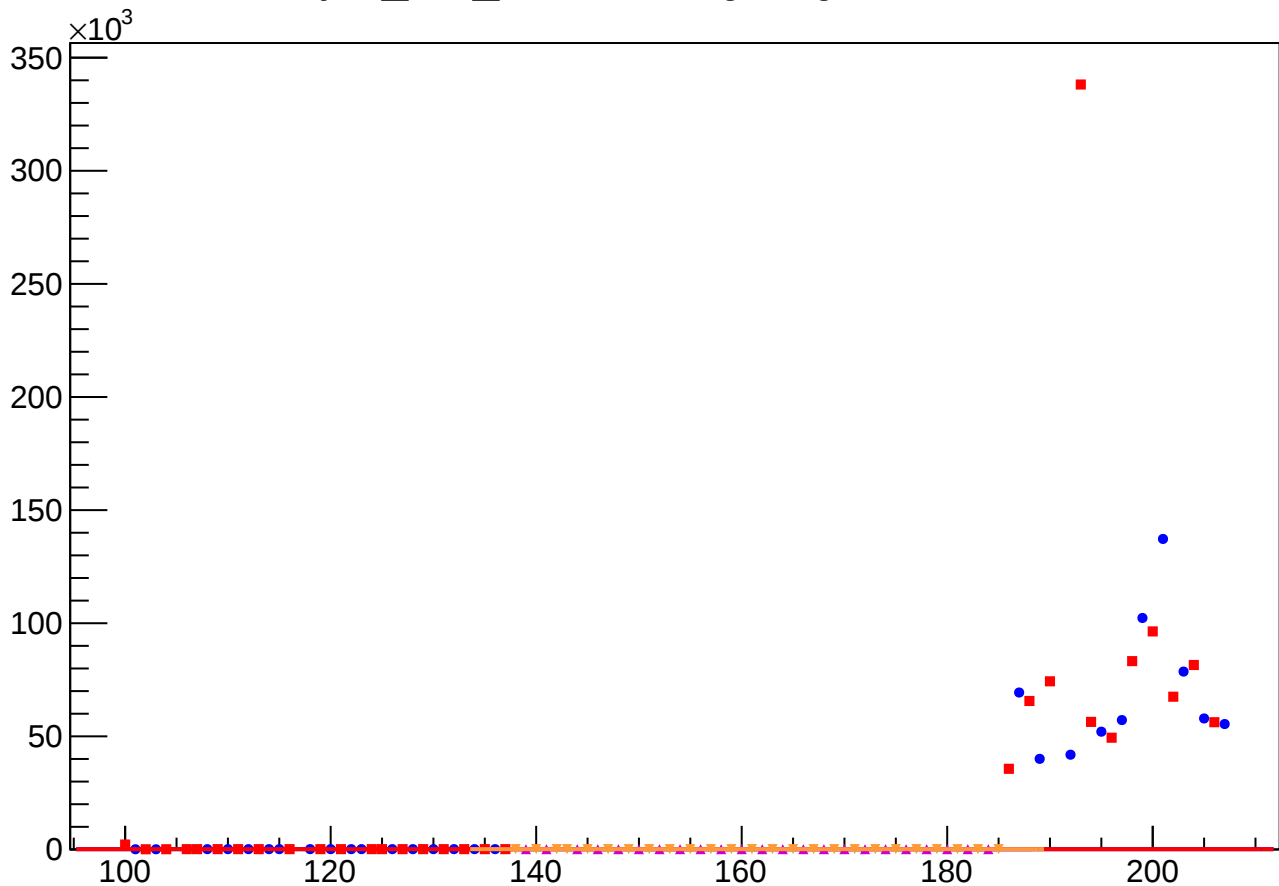
Right: 13.830+/-33.456 χ^2/NDF : 39.9/55

In: -51.938+/-26.954 χ^2/NDF : 37.2/49

Out: 7.632+/-26.631 χ^2/NDF : 34.3/53

All: -21.793+/-18.944 χ^2/NDF : 74.0/103

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.909 $\pm$ 0.033 χ^2 /NDF: 6424327.8/26

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

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

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

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

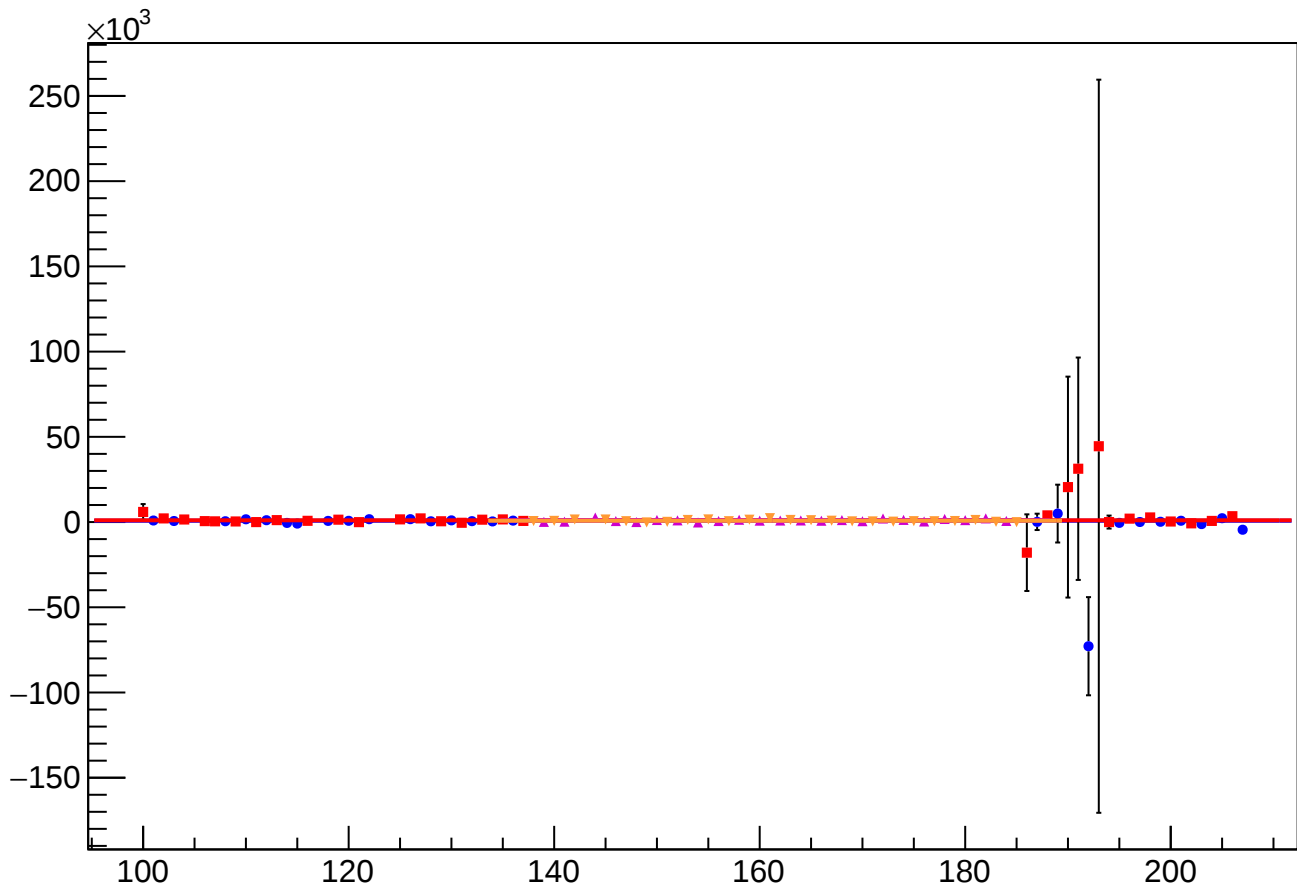
Right: 121.299 $\pm$ 0.024 χ^2 /NDF: 12516194.2/56

In: 131.246 $\pm$ 0.019 χ^2 /NDF:6667001.5/49

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

All: 132.557 $\pm$ 0.013 χ^2 /NDF: 12850442.6/10

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 767.606 $\pm$ 209.879 χ^2/NDF : 18.8/25

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

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

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

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

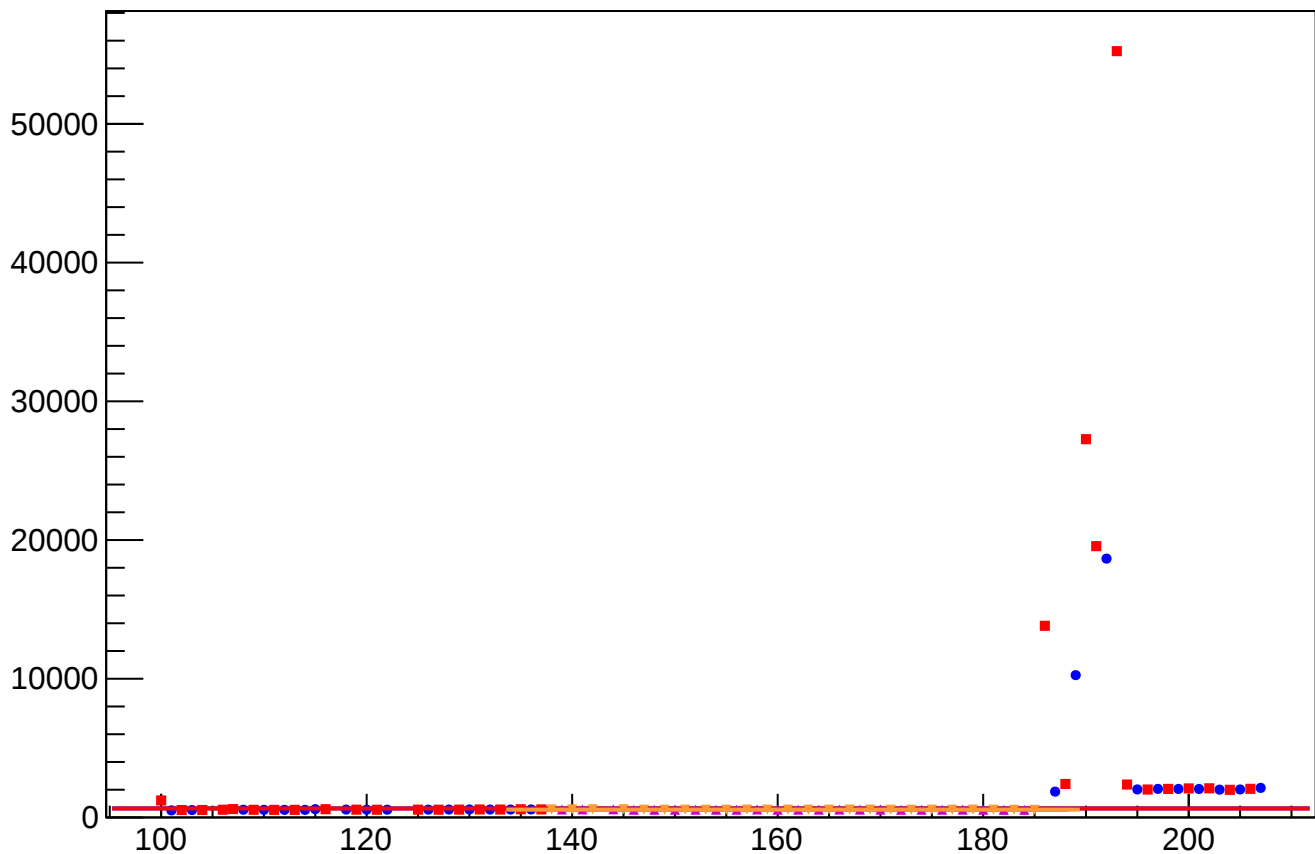
Right: 904.012 $\pm$ 147.484 χ^2/NDF : 38.4/55

In: 913.925 $\pm$ 113.499 χ^2/NDF : 47.0/48

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

All: 886.180 $\pm$ 79.924 χ^2/NDF : 86.0/102

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 650.626+/-0.148 χ^2/NDF : 7232953.0/25

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

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

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

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

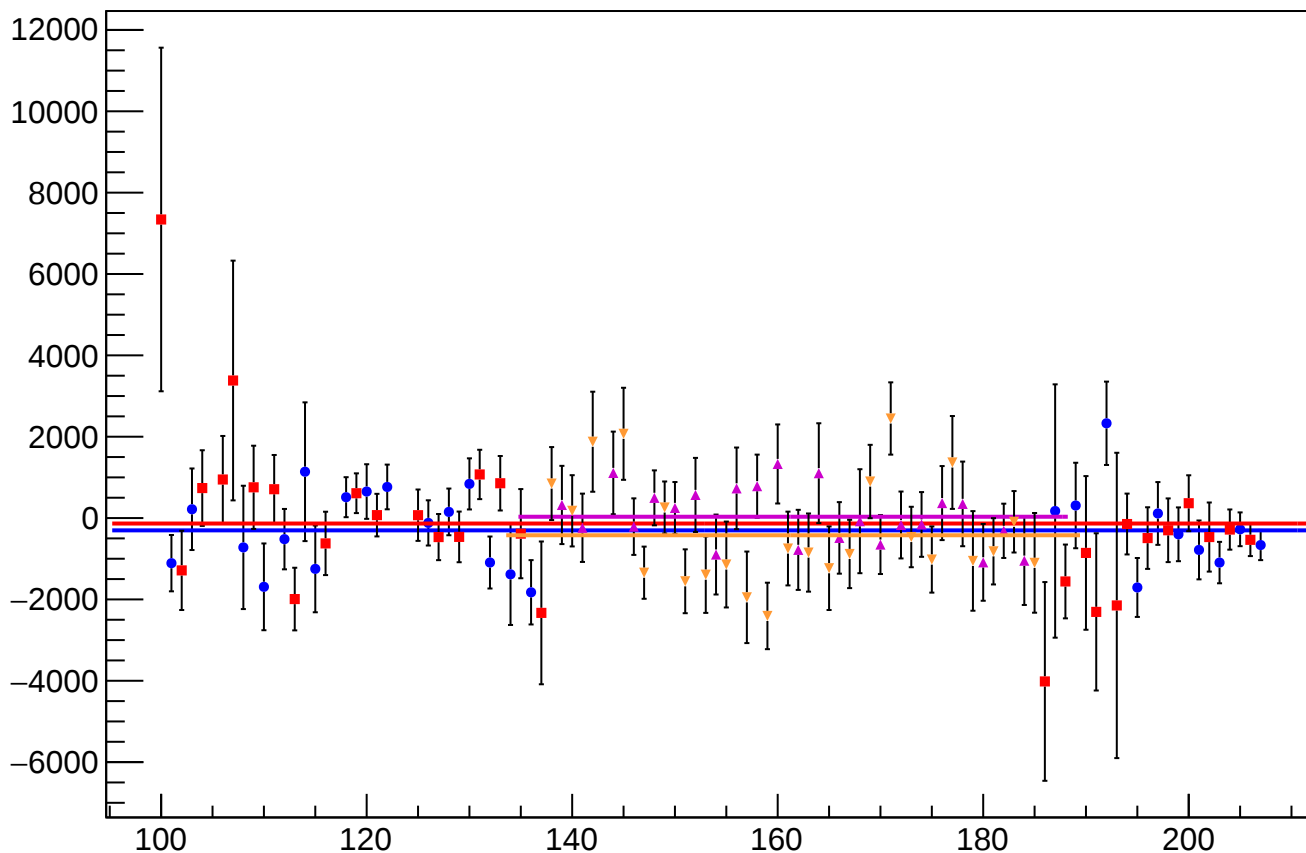
Right: 649.821+/-0.104 χ^2/NDF : 14420116.8/55

In: 589.605+/-0.080 χ^2/NDF : 7481109.4/48

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

All: 589.389+/-0.057 χ^2/NDF : 14914341.1/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -302.492 ± 132.145 $\chi^2/\text{NDF}: 38.4/25$

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

Right Out: -134.390 ± 138.521 $\chi^2/\text{NDF}: 35.5/29$

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

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

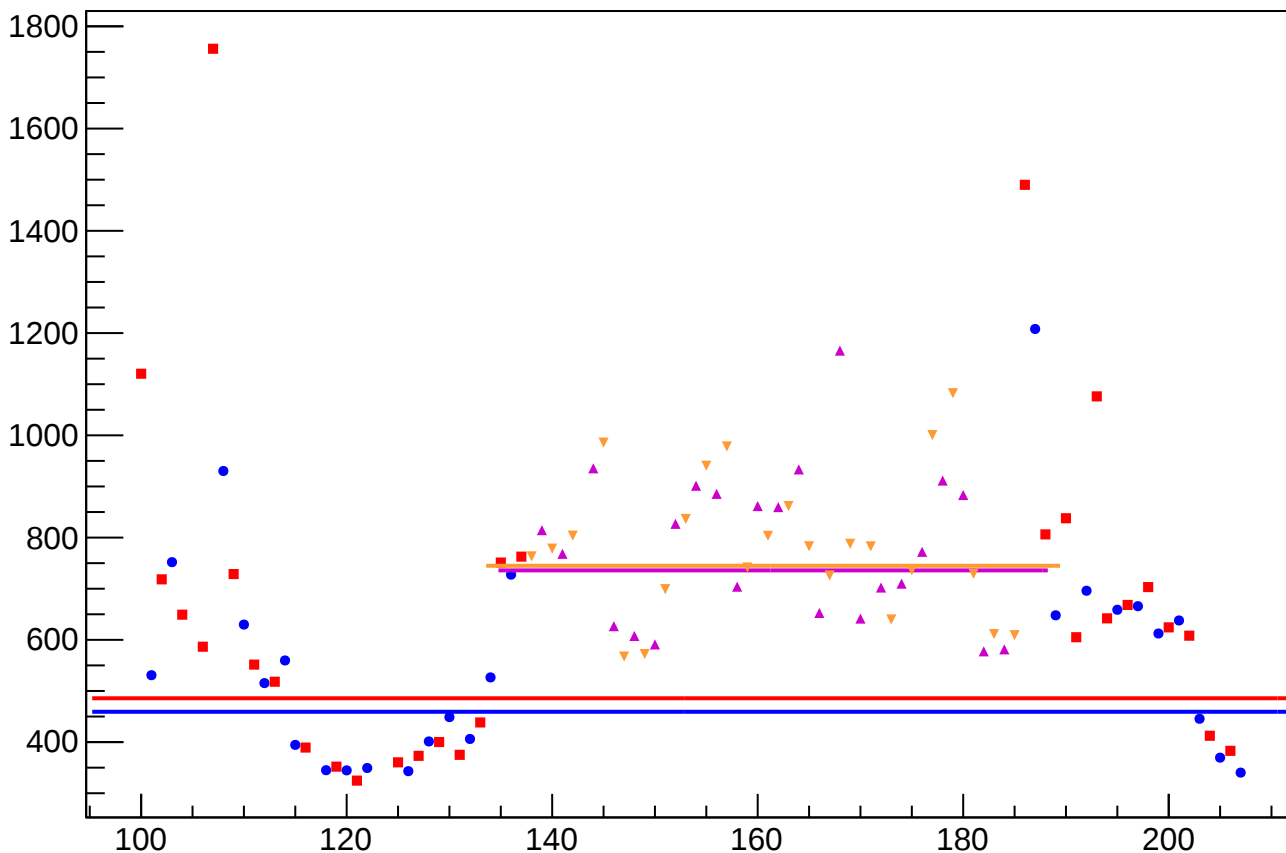
Right: -222.399 ± 95.615 $\chi^2/\text{NDF}: 74.7/55$

In: -184.722 ± 106.403 $\chi^2/\text{NDF}: 52.8/48$

Out: -241.164 ± 109.915 $\chi^2/\text{NDF}: 80.3/53$

All: -212.027 ± 76.450 $\chi^2/\text{NDF}: 133.3/102$

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 459.323+/-0.093 χ^2/NDF : 2177629.5/25

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

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

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

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

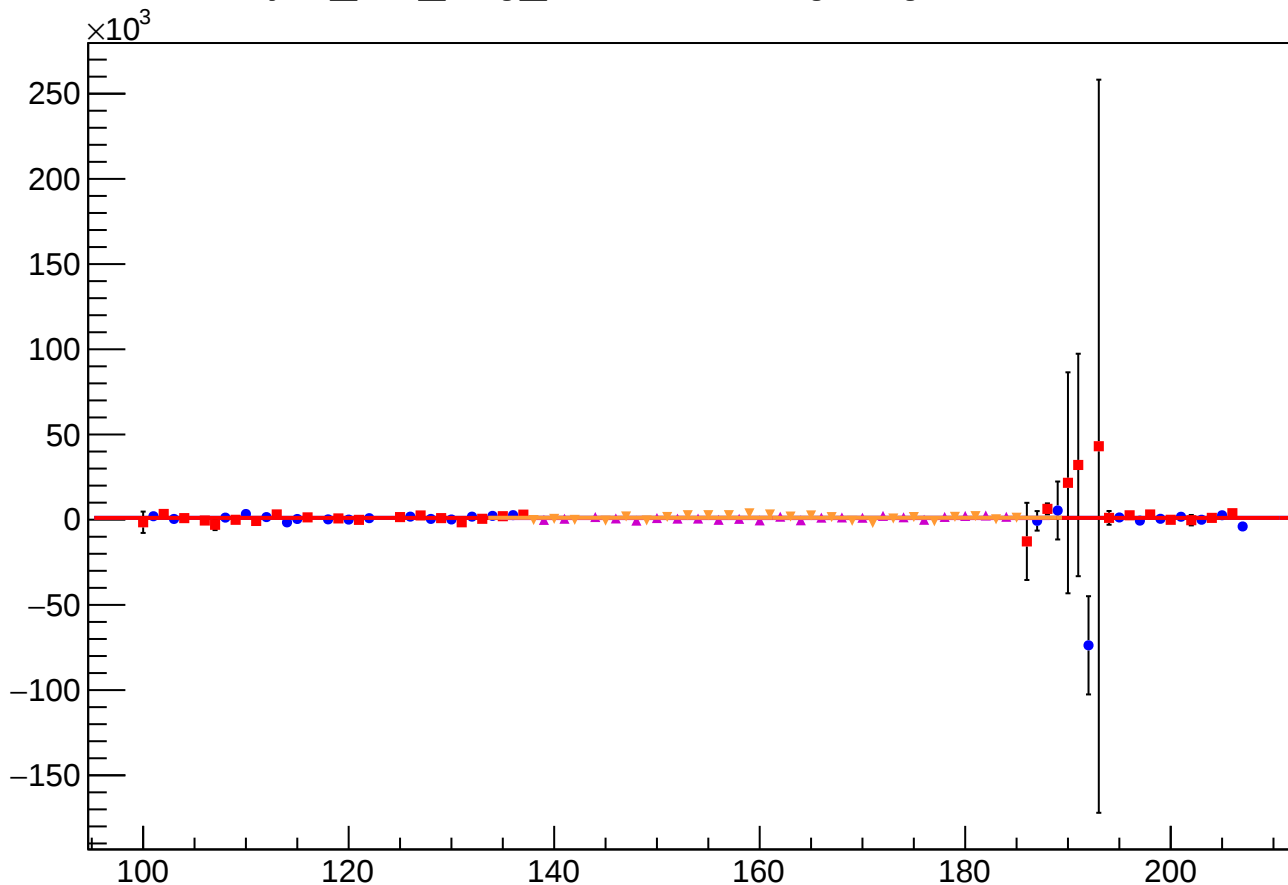
Right: 471.905+/-0.068 χ^2/NDF : 5135085.5/55

In: 556.565+/-0.075 χ^2/NDF :6362803.9/48

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

All: 568.735+/-0.054 χ^2/NDF : 12938313.9/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1091.877+/-280.651 χ^2 /NDF: 24.6/25

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

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

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

Left: 1039.600+/-161.629 χ^2 /NDF: 54.0/46

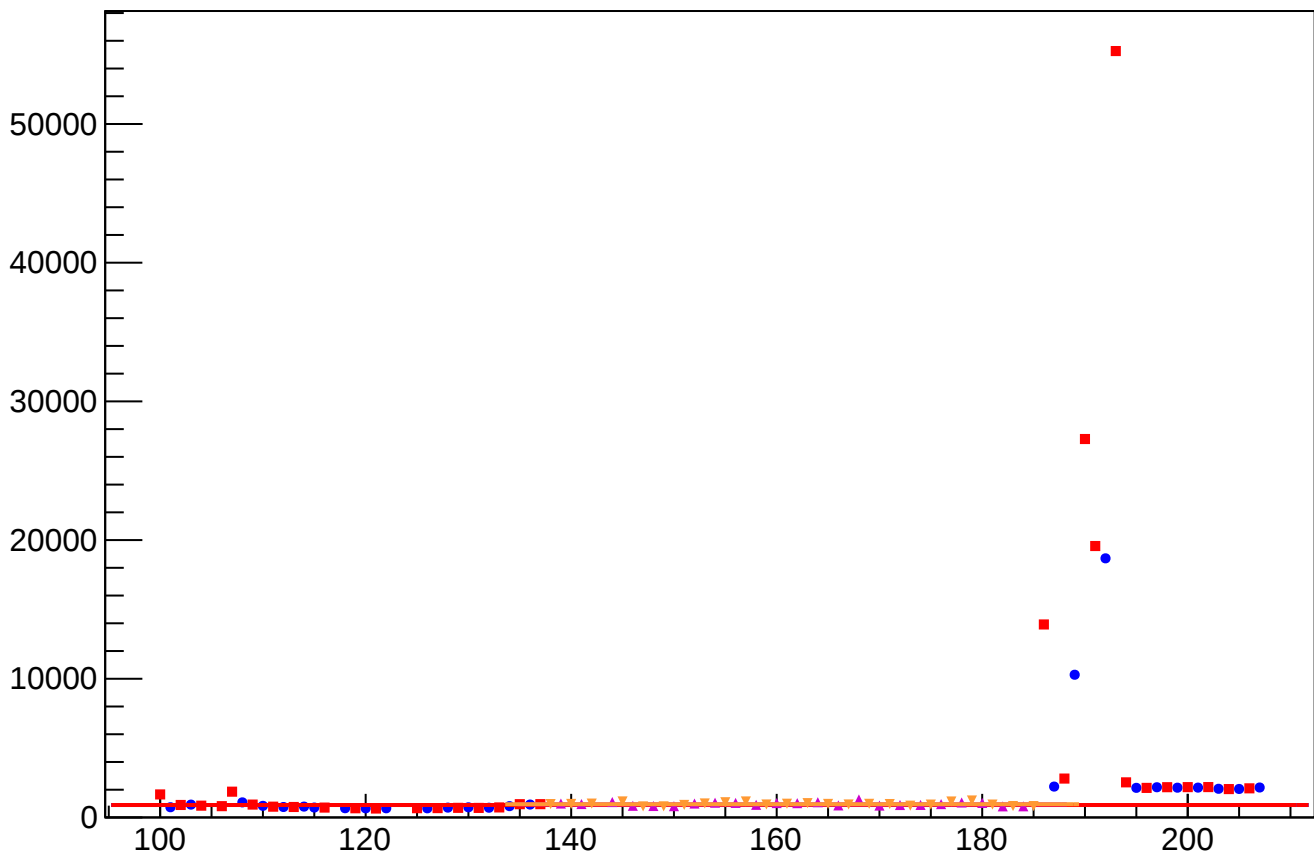
Right: 1075.505+/-198.367 χ^2 /NDF: 54.4/55

In: 1001.511+/-177.114 χ^2 /NDF:39.6/48

Out: 1106.446+/-177.292 χ^2 /NDF:68.7/53

All: 1053.926+/-125.302 χ^2 /NDF: 108.4/102

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 897.266+/-0.198 χ^2/NDF : 5995413.3/25

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

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

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

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

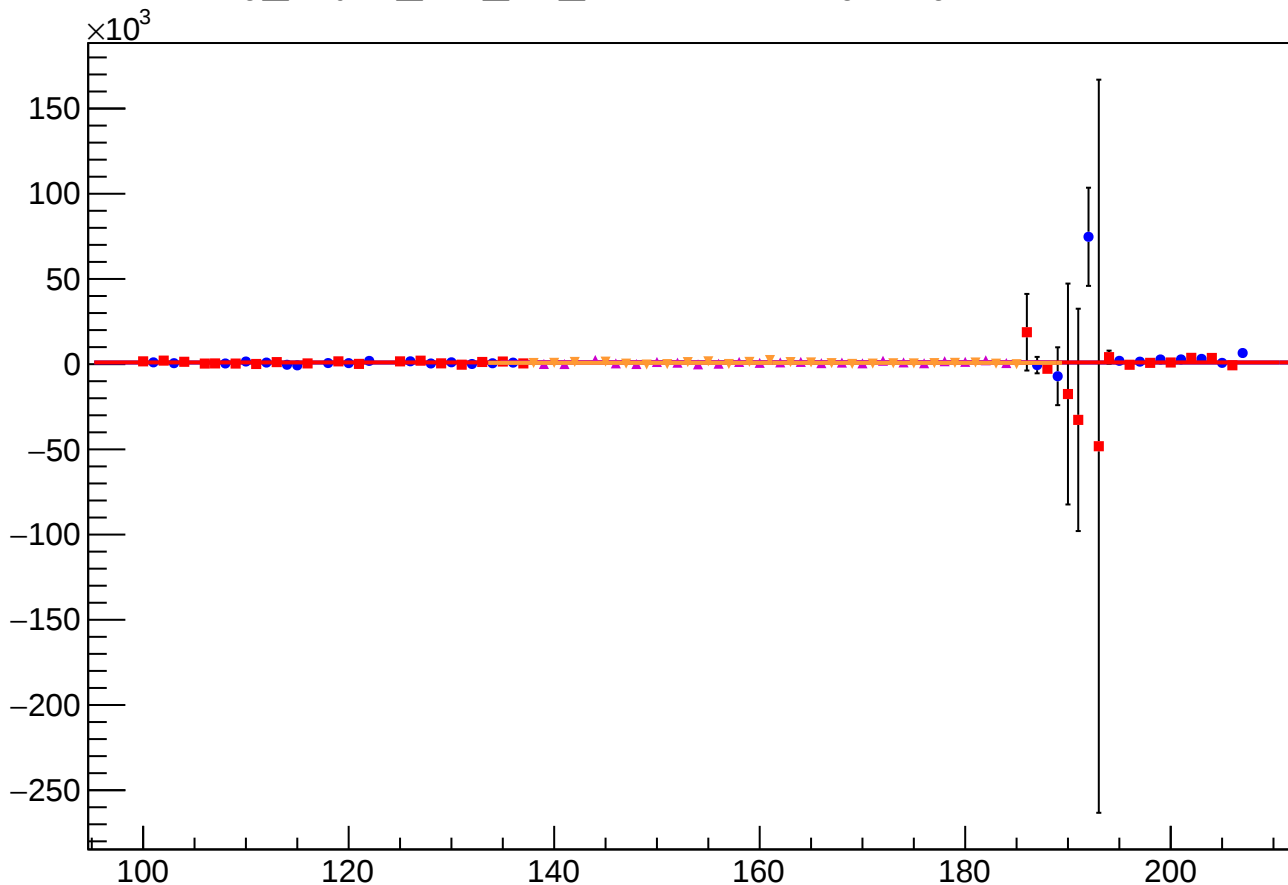
Right: 897.517+/-0.140 χ^2/NDF : 12338002.5/55

In: 926.935+/-0.125 χ^2/NDF : 6533926.7/48

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

All: 929.326+/-0.089 χ^2/NDF : 13386239.8/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 958.620 ± 209.748 χ^2/NDF : 21.5/25

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

Right Out: 1017.996 ± 202.677 χ^2/NDF : 18.8/29

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

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

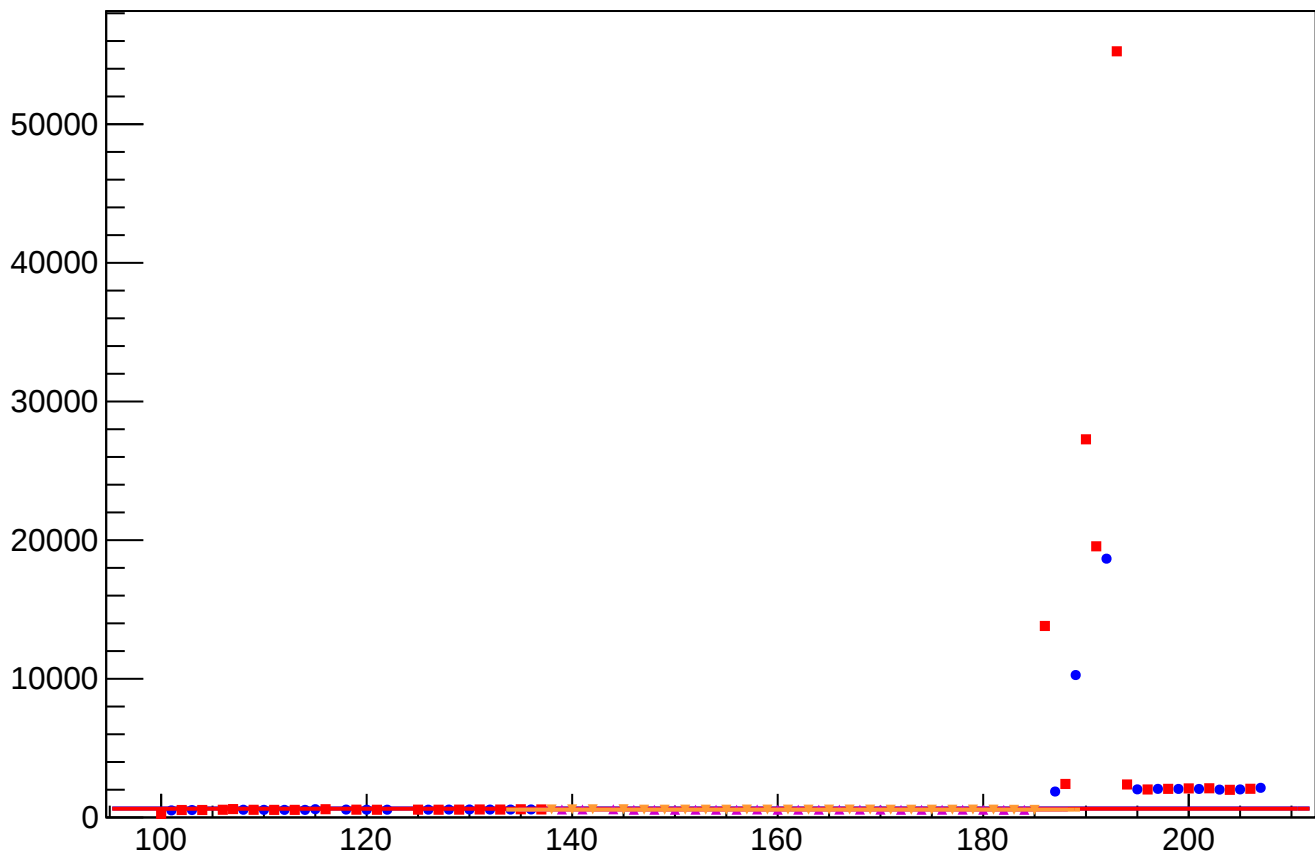
Right: 989.325 ± 145.750 χ^2/NDF : 40.3/55

In: 958.547 ± 113.415 χ^2/NDF : 48.3/48

Out: 836.785 ± 111.745 χ^2/NDF : 41.0/53

All: 896.763 ± 79.599 χ^2/NDF : 89.9/102

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 650.004+/-0.148 χ^2/NDF : 7246081.1/25

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

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

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

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

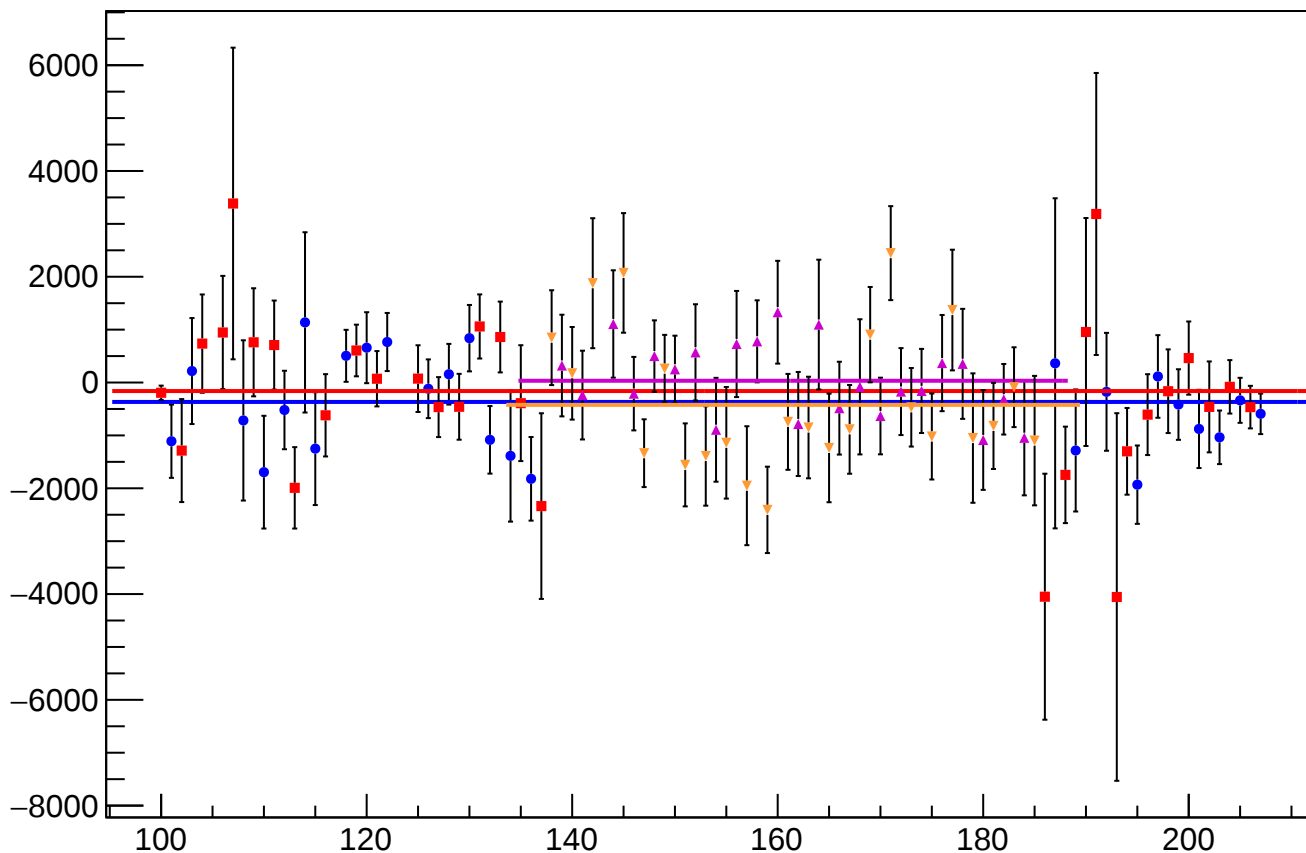
Right: 639.508+/-0.103 χ^2/NDF : 14744292.6/55

In: 589.099+/-0.080 χ^2/NDF : 7493593.7/48

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

All: 586.383+/-0.056 χ^2/NDF : 15141686.8/100

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -367.102 ± 133.577 $\chi^2/\text{NDF}: 32.5/25$

Left Out: -422.324 ± 180.531 $\chi^2/\text{NDF}: 43.3/23$

Right Out: -161.221 ± 97.072 $\chi^2/\text{NDF}: 36.7/29$

Left In: 33.325 ± 179.355 $\chi^2/\text{NDF}: 12.1/22$

Left: -193.010 ± 127.237 $\chi^2/\text{NDF}: 58.6/46$

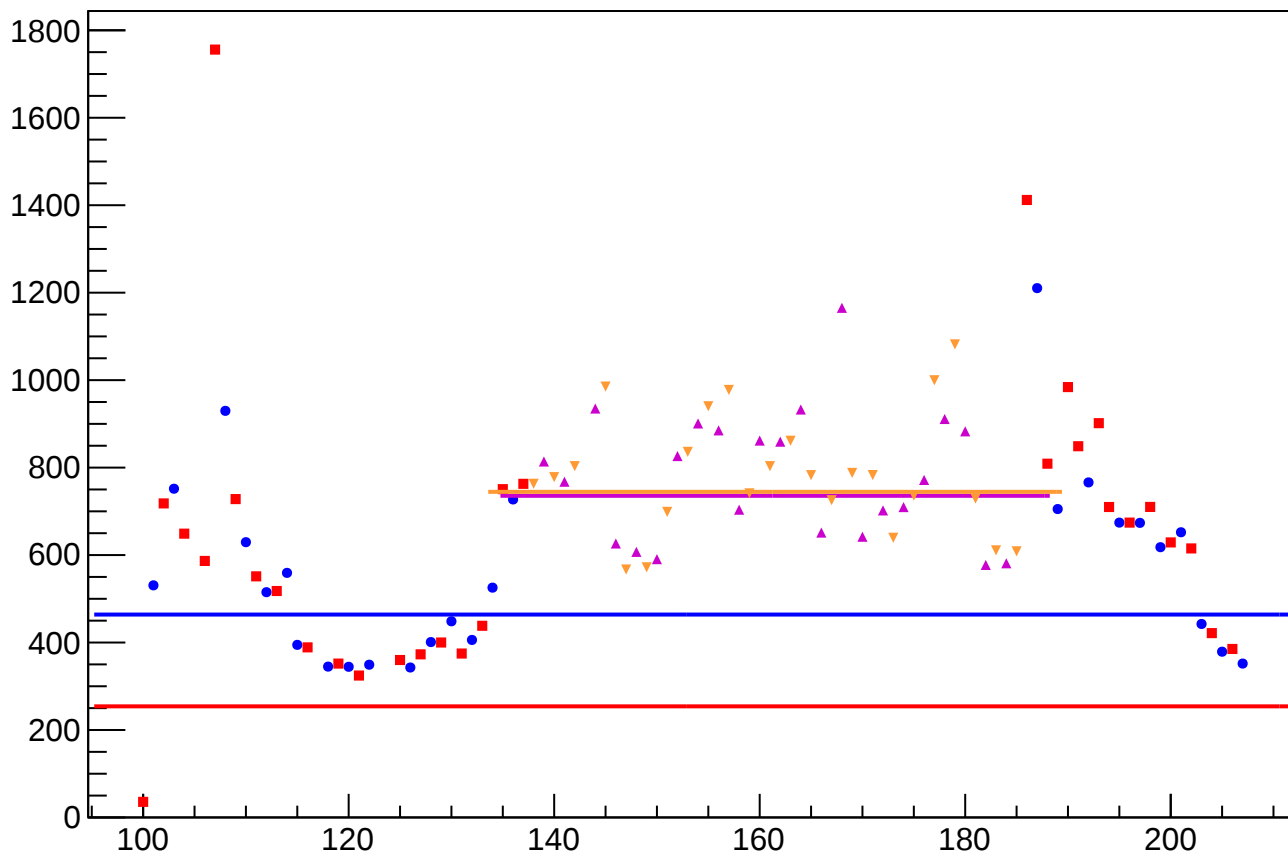
Right: -232.373 ± 78.527 $\chi^2/\text{NDF}: 70.8/55$

In: -224.239 ± 107.130 $\chi^2/\text{NDF}: 47.8/48$

Out: -219.781 ± 85.496 $\chi^2/\text{NDF}: 81.6/53$

All: -221.515 ± 66.825 $\chi^2/\text{NDF}: 129.4/102$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 463.964+/-0.094 χ^2/NDF : 2220660.0/25

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

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

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

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

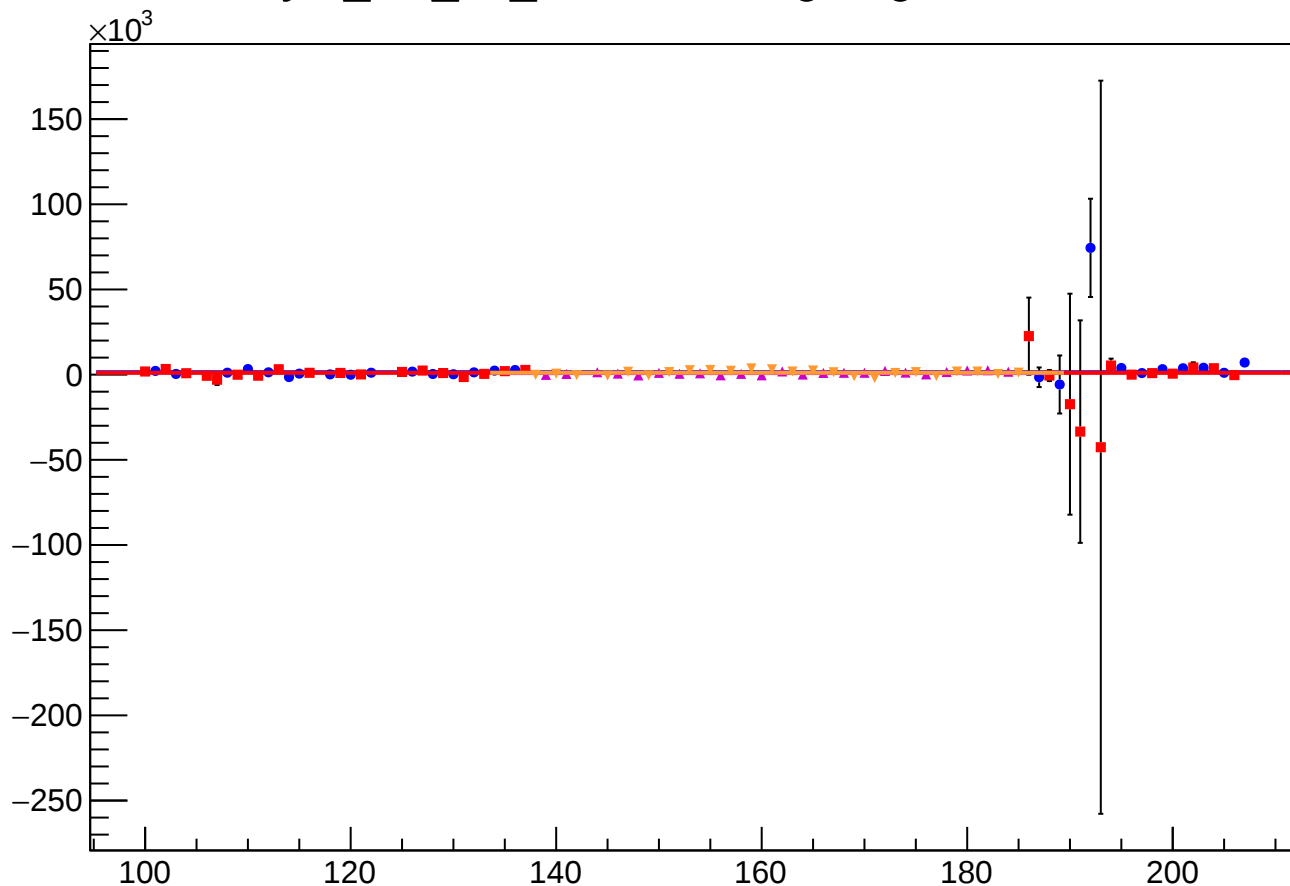
Right: 326.616+/-0.056 χ^2/NDF : 19266121.4/55

In: 560.856+/-0.076 χ^2/NDF :6275443.8/48

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

All: 440.652+/-0.047 χ^2/NDF : 36674393.0/10

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1409.308 $\pm$ 280.555 χ^2 /NDF: 28.9/25

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

Right Out: 1075.557 $\pm$ 269.513 χ^2 /NDF: 28.0/29

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

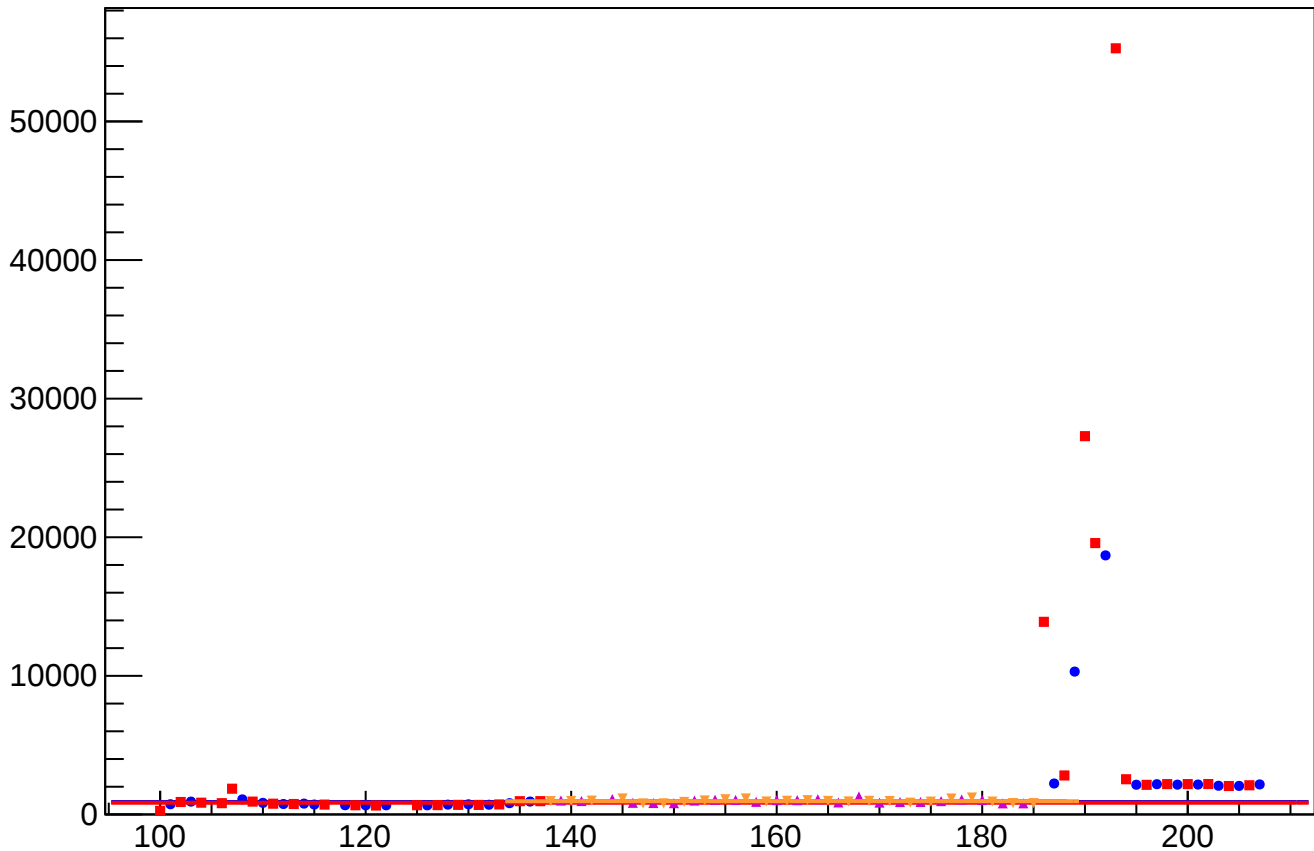
Right: 1235.735 $\pm$ 194.361 χ^2 /NDF: 57.6/55

In: 1118.604 $\pm$ 177.031 χ^2 /NDF:45.8/48

Out: 1092.758 $\pm$ 174.379 χ^2 /NDF:66.3/53

All: 1105.486 $\pm$ 124.231 χ^2 /NDF: 112.1/102

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 896.529+/-0.198 χ^2/NDF : 6015058.0/25

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

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

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

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

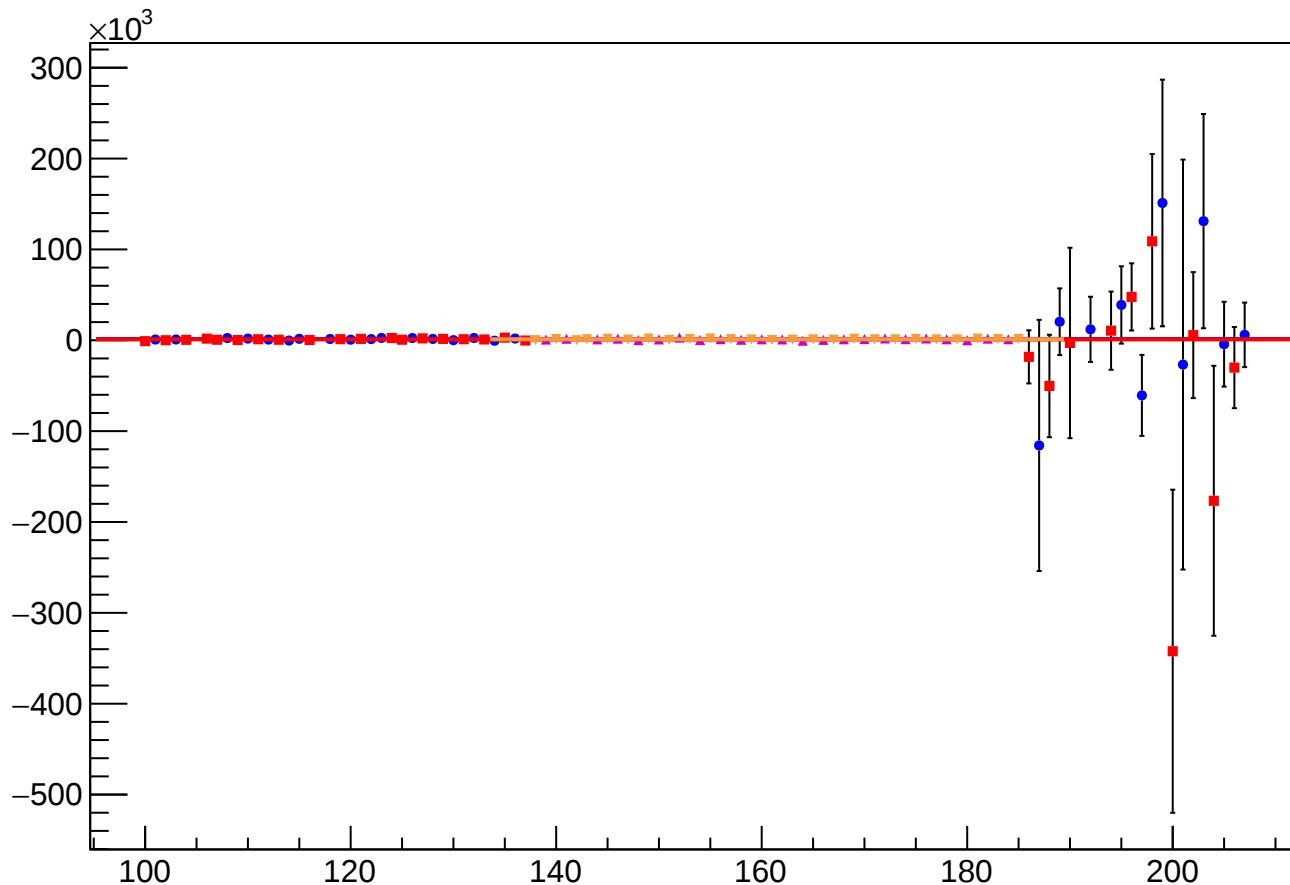
Right: 870.308+/-0.137 χ^2/NDF : 13181622.9/55

In: 926.327+/-0.125 χ^2/NDF : 6553987.9/48

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

All: 917.384+/-0.088 χ^2/NDF : 14342804.0/100

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.194 $\pm$ 218.579 χ^2 /NDF: 19.1/26

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

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

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

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

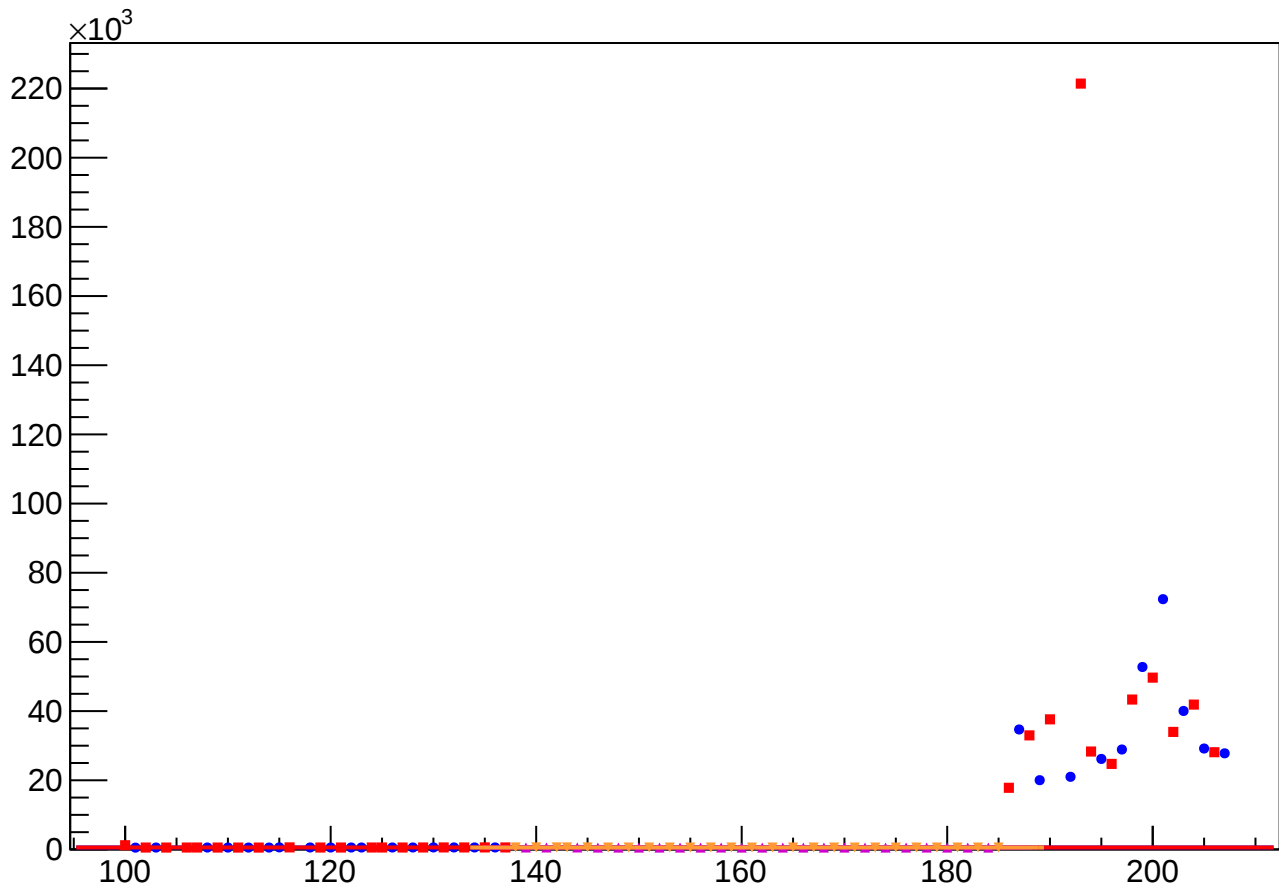
Right: 1178.039 $\pm$ 152.202 χ^2 /NDF: 43.2/55

In: 1178.356 $\pm$ 113.721 χ^2 /NDF:49.7/49

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

All: 1119.784 $\pm$ 79.301 χ^2 /NDF: 88.7/103

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.491+/-0.155 χ^2/NDF : 5666724.8/26

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

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

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

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

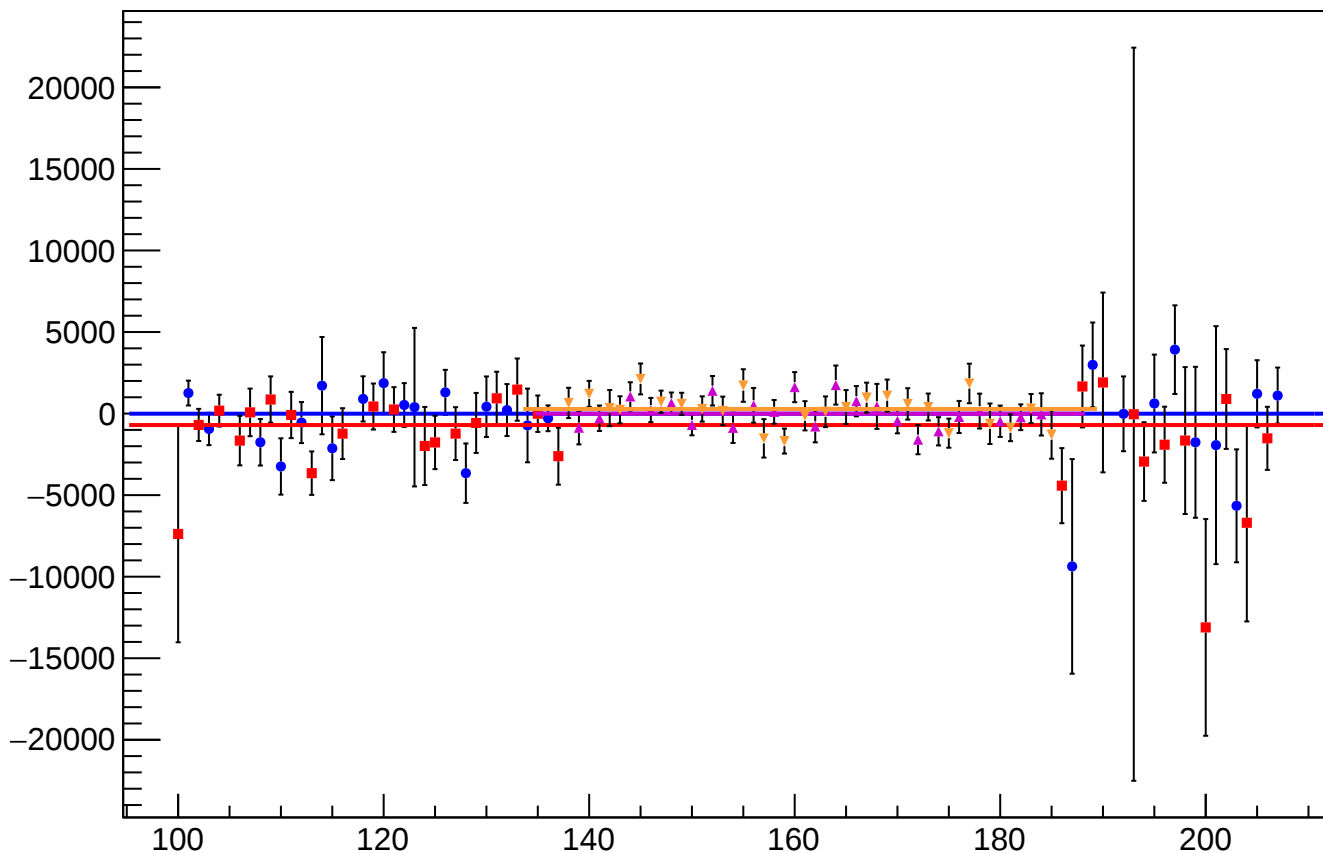
Right: 569.105+/-0.108 χ^2/NDF : 11150063.3/56

In: 560.088+/-0.080 χ^2/NDF : 5681987.3/49

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

All: 560.475+/-0.056 χ^2/NDF : 11184870.4/10

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -7.575 ± 306.982 χ^2/NDF : 26.3/26

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

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

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

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

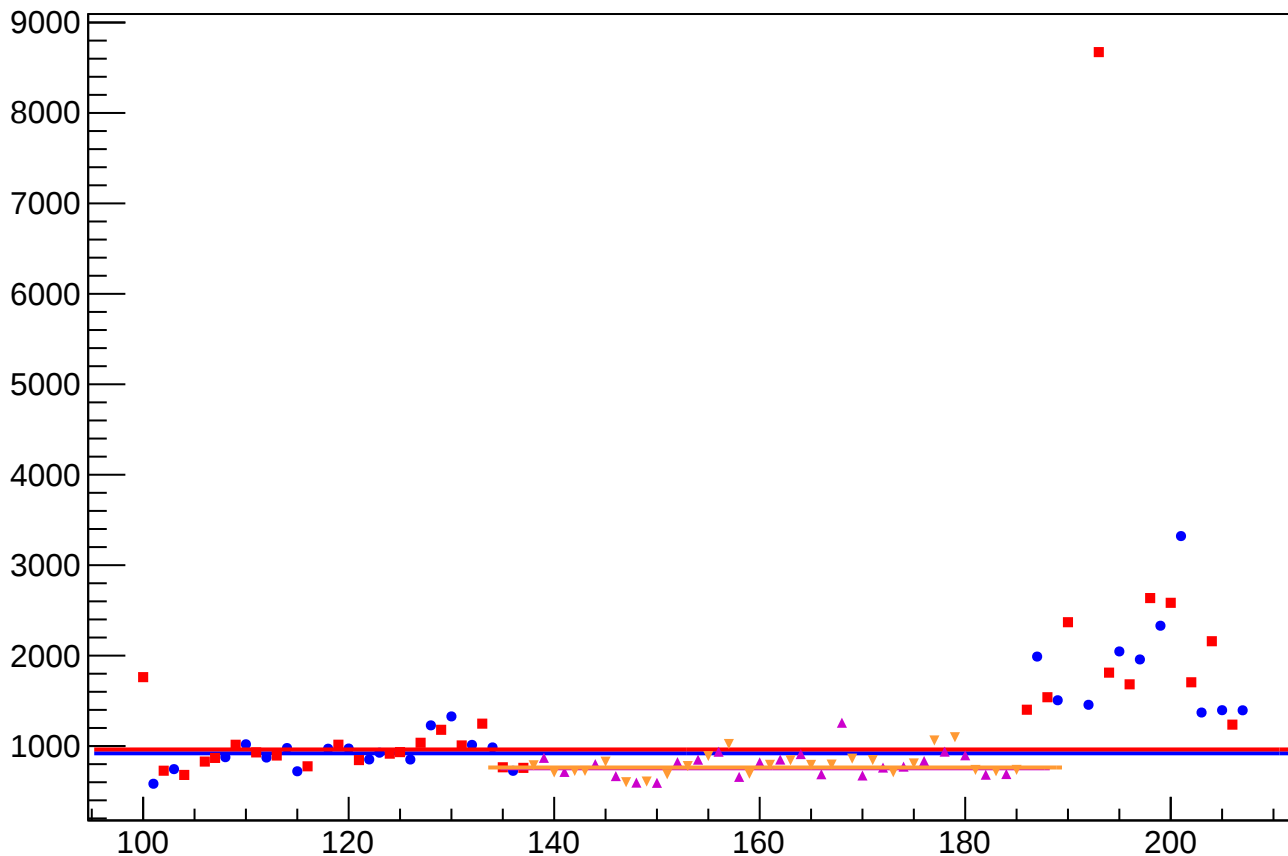
Right: -348.958 ± 219.040 χ^2/NDF : 53.4/56

In: -8.044 ± 157.431 χ^2/NDF : 46.4/49

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

All: 14.043 ± 110.907 χ^2/NDF : 105.2/104

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 919.828+/-0.217 χ^2/NDF : 2317448.4/26

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

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

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

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

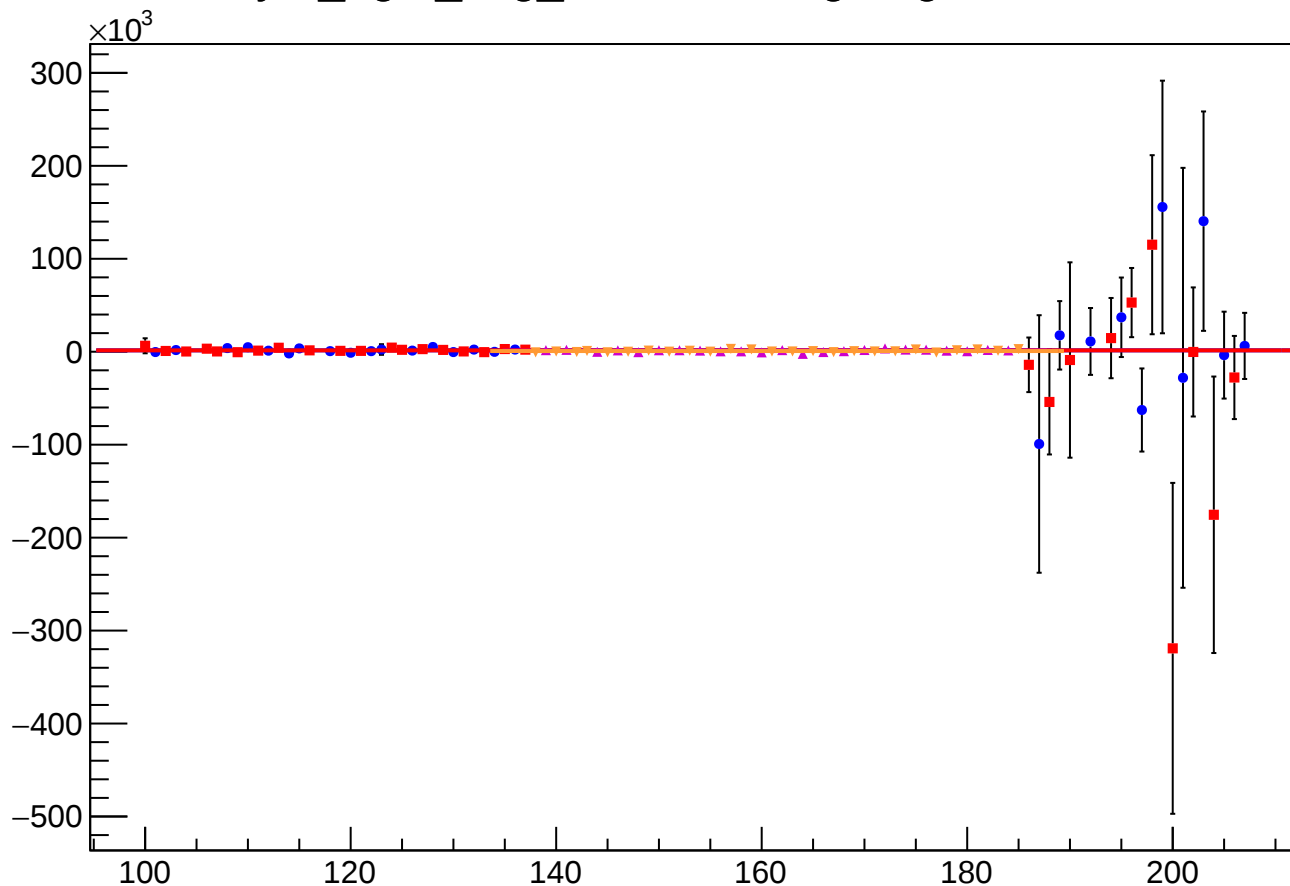
Right: 940.776+/-0.155 χ^2/NDF : 4511207.4/56

In: 797.686+/-0.111 χ^2/NDF : 3678887.9/49

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

All: 805.353+/-0.078 χ^2/NDF : 7227226.0/104

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.295 $\pm$ 402.536 χ^2 /NDF: 23.4/26

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

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

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

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

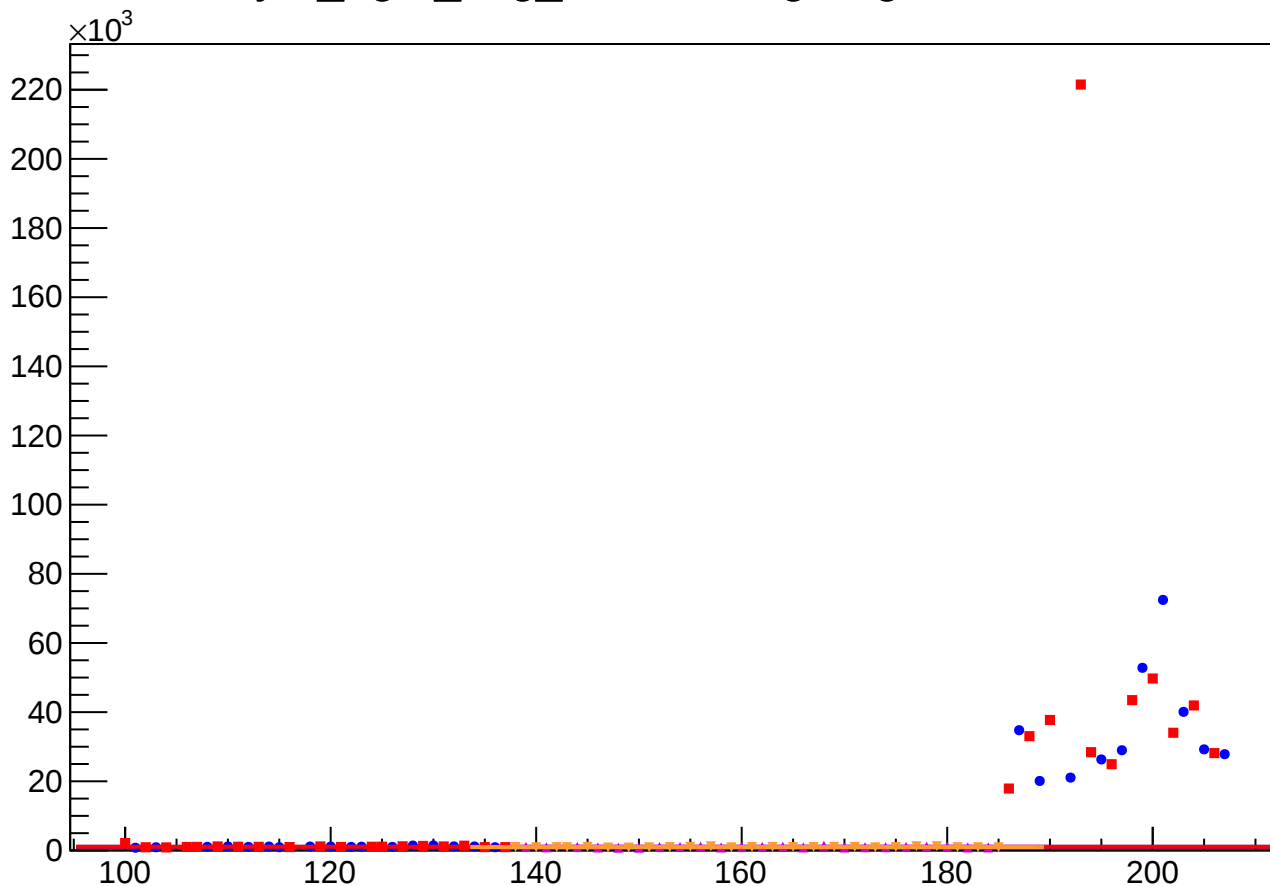
Right: 1493.438 $\pm$ 283.949 χ^2 /NDF: 45.1/55

In: 1217.342 $\pm$ 199.743 χ^2 /NDF: 49.4/49

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

All: 1065.848 $\pm$ 140.090 χ^2 /NDF: 96.4/103

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1038.525+/-0.285 χ^2/NDF : 5803547.2/26

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

Right Out: 1073.106+/-0.283 χ^2/NDF : 5482472.3/29

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

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

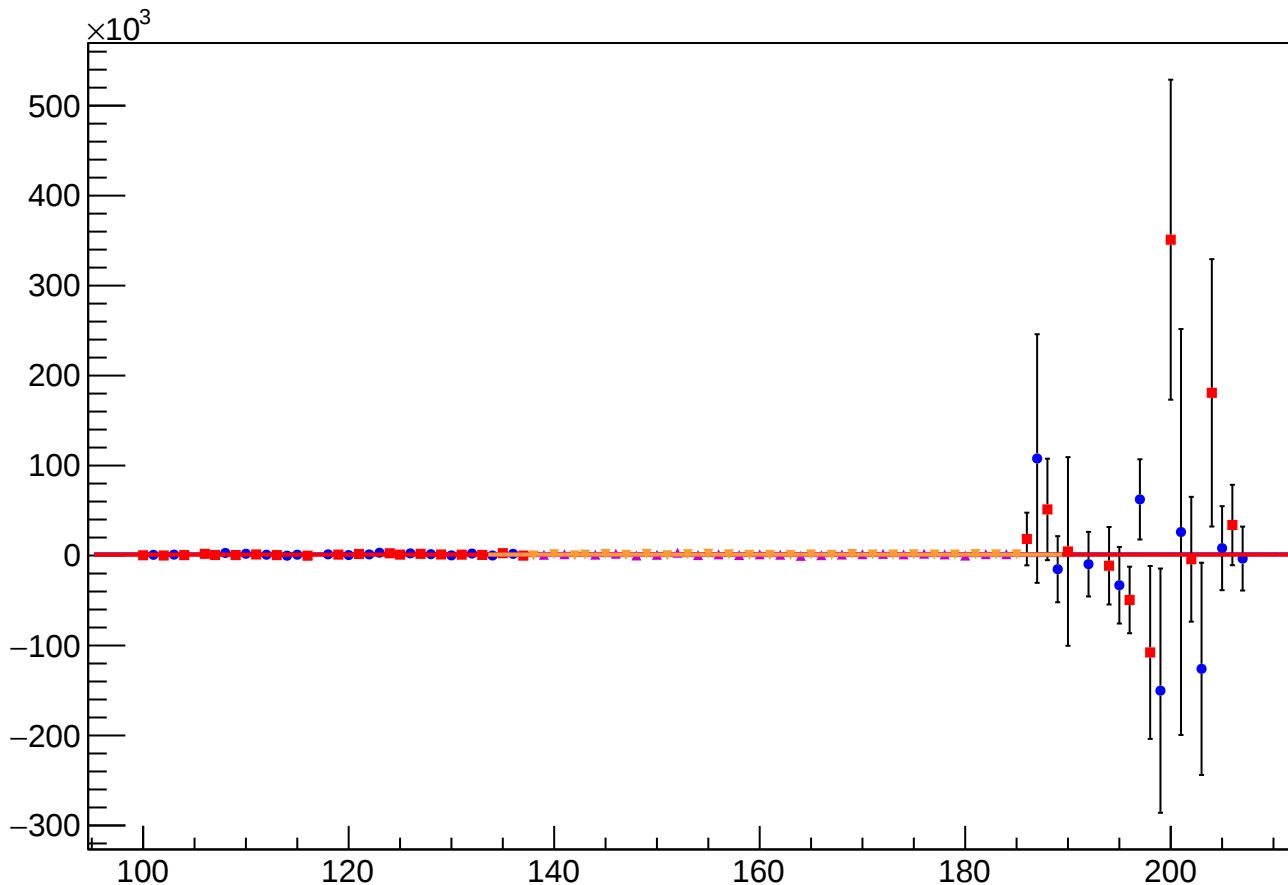
Right: 1055.899+/-0.201 χ^2/NDF : 11293435.7/56

In: 975.297+/-0.141 χ^2/NDF : 6312404.7/49

Out: 988.935+/-0.139 χ^2/NDF : 5961693.3/54

All: 982.227+/-0.099 χ^2/NDF : 12278835.4/100

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.399 ± 218.834 $\chi^2/\text{NDF}: 17.9/26$

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

Right Out: 966.131 ± 208.597 $\chi^2/\text{NDF}: 22.5/28$

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

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

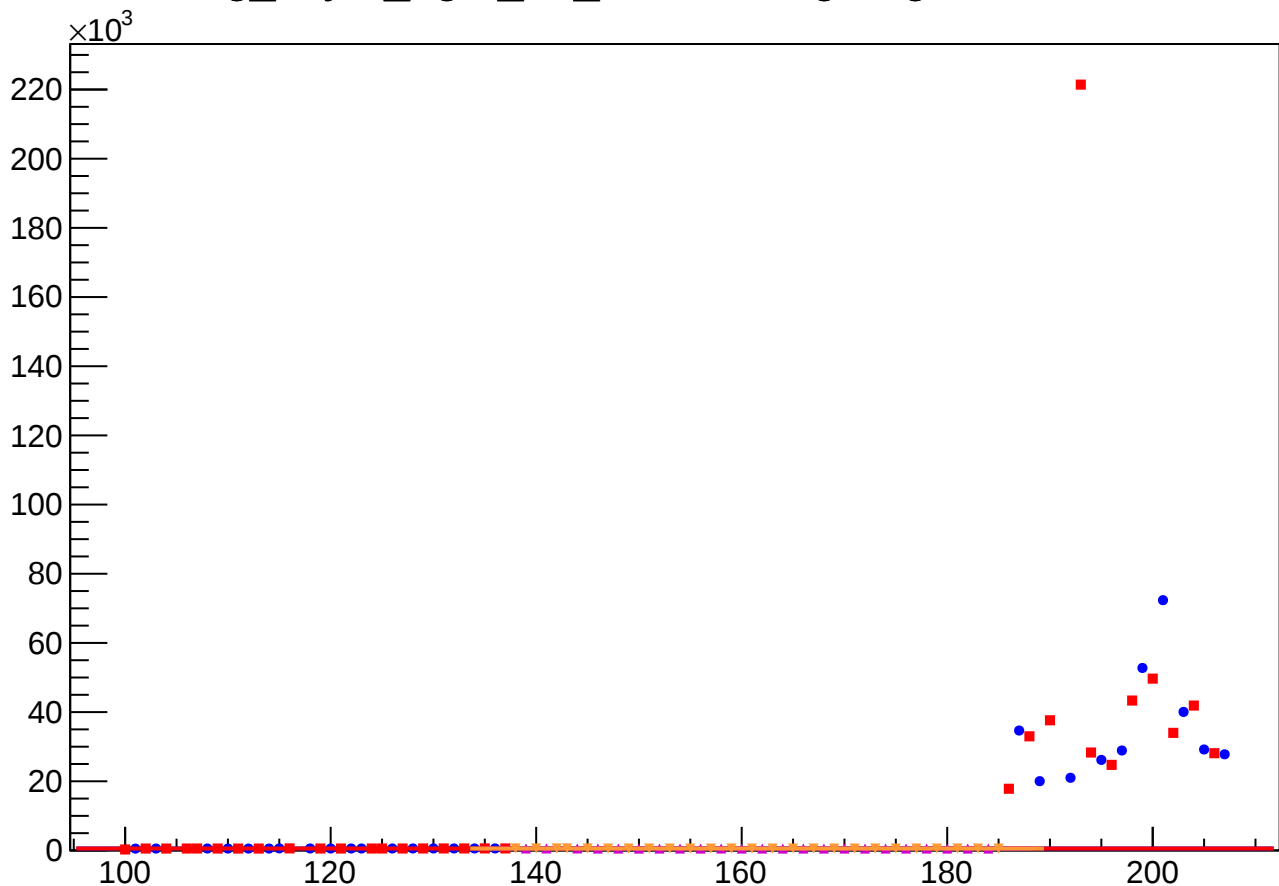
Right: 1146.211 ± 150.990 $\chi^2/\text{NDF}: 41.9/55$

In: 1231.413 ± 113.851 $\chi^2/\text{NDF}: 50.4/49$

Out: 1053.706 ± 110.219 $\chi^2/\text{NDF}: 37.7/53$

All: 1139.680 ± 79.189 $\chi^2/\text{NDF}: 89.3/103$

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.154+/-0.155 χ^2/NDF : 5666908.3/26

Left Out: 558.099+/-0.092 χ^2/NDF : 14785.2/24

Right Out: 558.678+/-0.148 χ^2/NDF : 5570968.7/29

Left In: 557.597+/-0.094 χ^2/NDF : 11276.8/22

Left: 557.854+/-0.066 χ^2/NDF : 26076.6/47

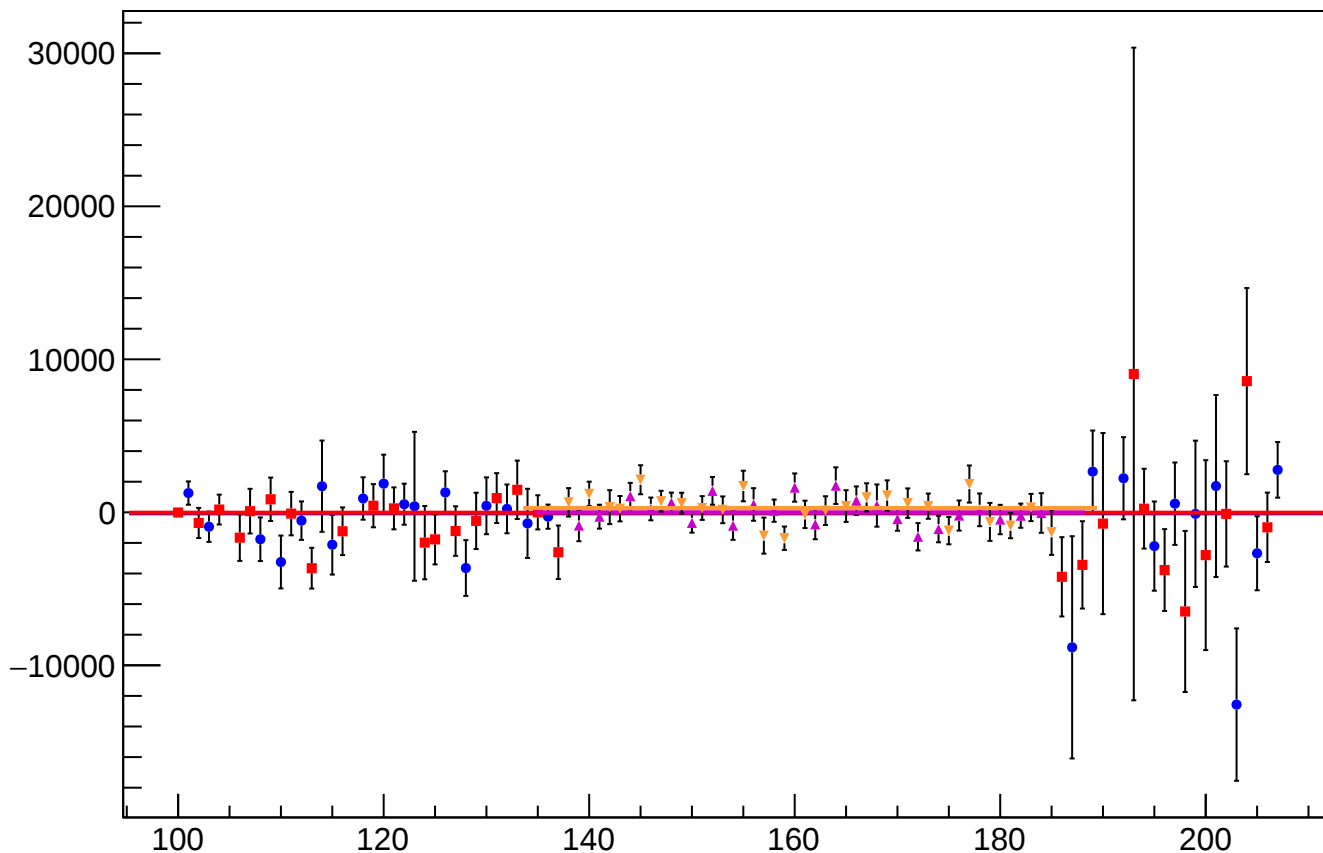
Right: 563.665+/-0.107 χ^2/NDF : 11240278.4/56

In: 560.725+/-0.081 χ^2/NDF : 5682253.6/49

Out: 558.261+/-0.078 χ^2/NDF : 5585765.0/54

All: 559.453+/-0.056 χ^2/NDF : 11268502.3/100

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -67.477 ± 309.897 $\chi^2/\text{NDF}: 30.9/26$

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

Right Out: -22.806 ± 38.927 $\chi^2/\text{NDF}: 26.0/29$

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

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

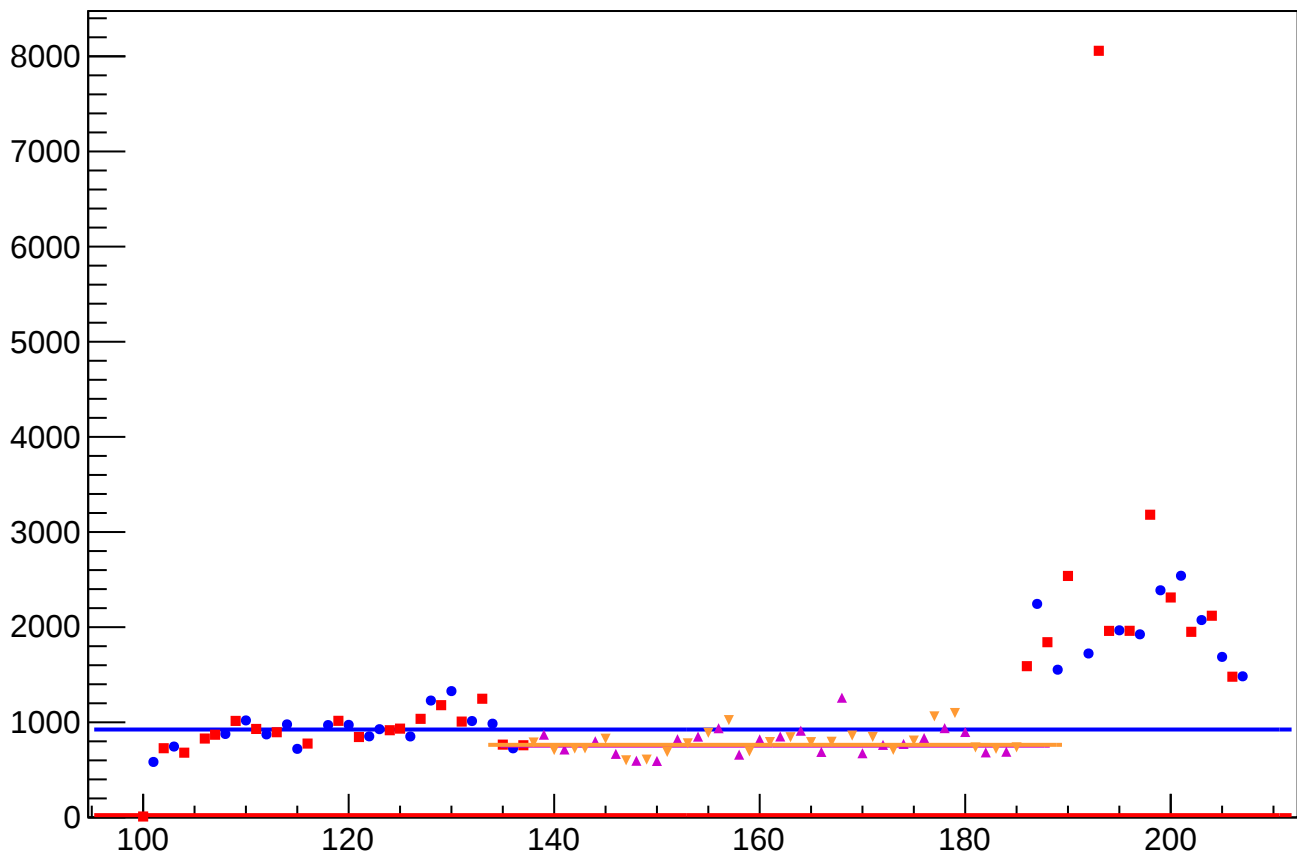
Right: -23.500 ± 38.623 $\chi^2/\text{NDF}: 56.9/56$

In: -22.923 ± 157.878 $\chi^2/\text{NDF}: 51.0/49$

Out: -9.283 ± 38.052 $\chi^2/\text{NDF}: 55.5/54$

All: -10.032 ± 36.992 $\chi^2/\text{NDF}: 106.5/104$

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 924.265 ± 0.219 χ^2/NDF : 2512924.2/26

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

Right Out: 24.468 ± 0.028 χ^2/NDF : 20506278.2/29

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

Left: 758.967 ± 0.091 χ^2/NDF : 1687616.8/47

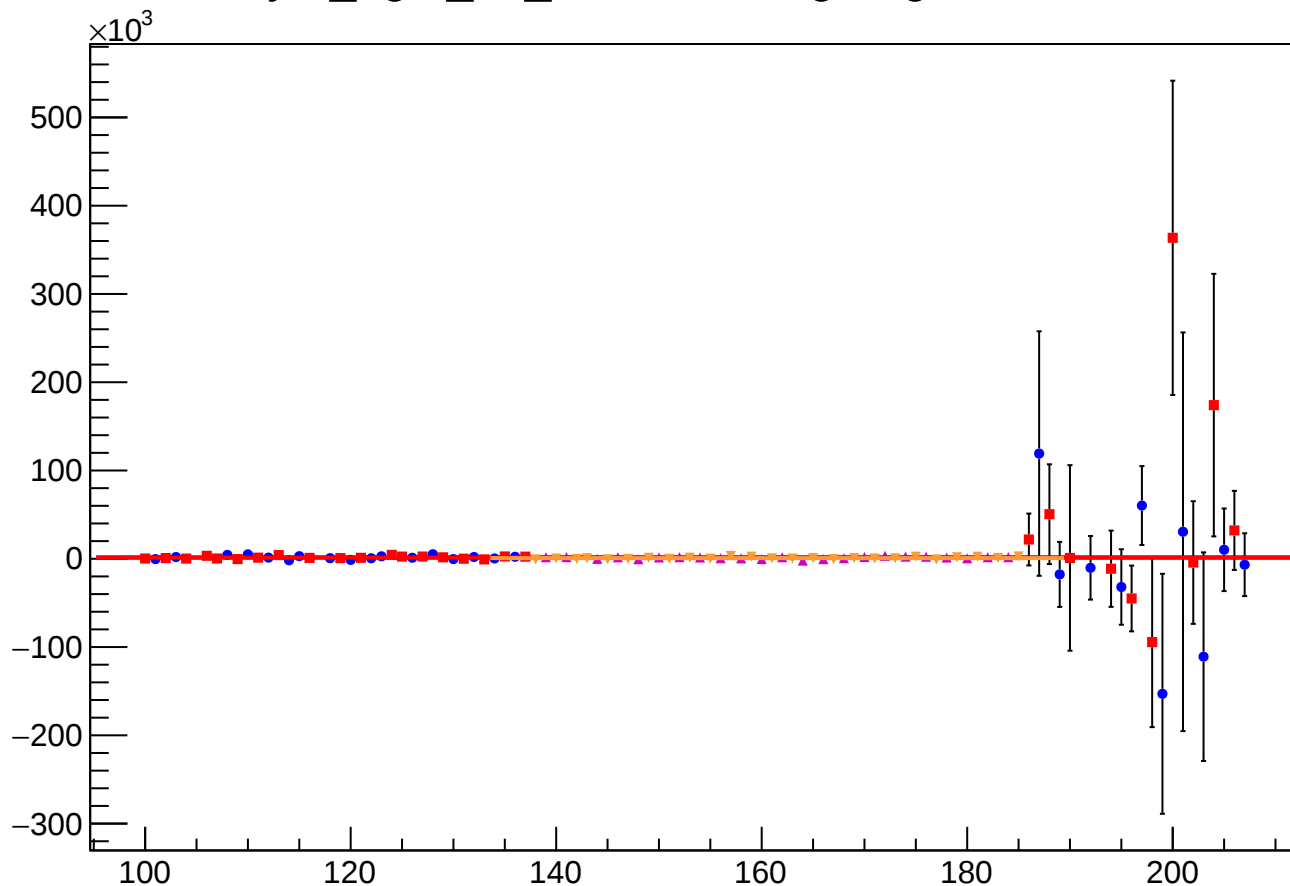
Right: 38.444 ± 0.027 χ^2/NDF : 39618421.2/56

In: 798.549 ± 0.112 χ^2/NDF : 3888972.1/49

Out: 57.311 ± 0.027 χ^2/NDF : 53288230.4/54

All: 98.006 ± 0.026 χ^2/NDF : 98842833.8/104

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.533 $\pm$ 402.760 χ^2 /NDF: 23.5/26

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

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

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

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

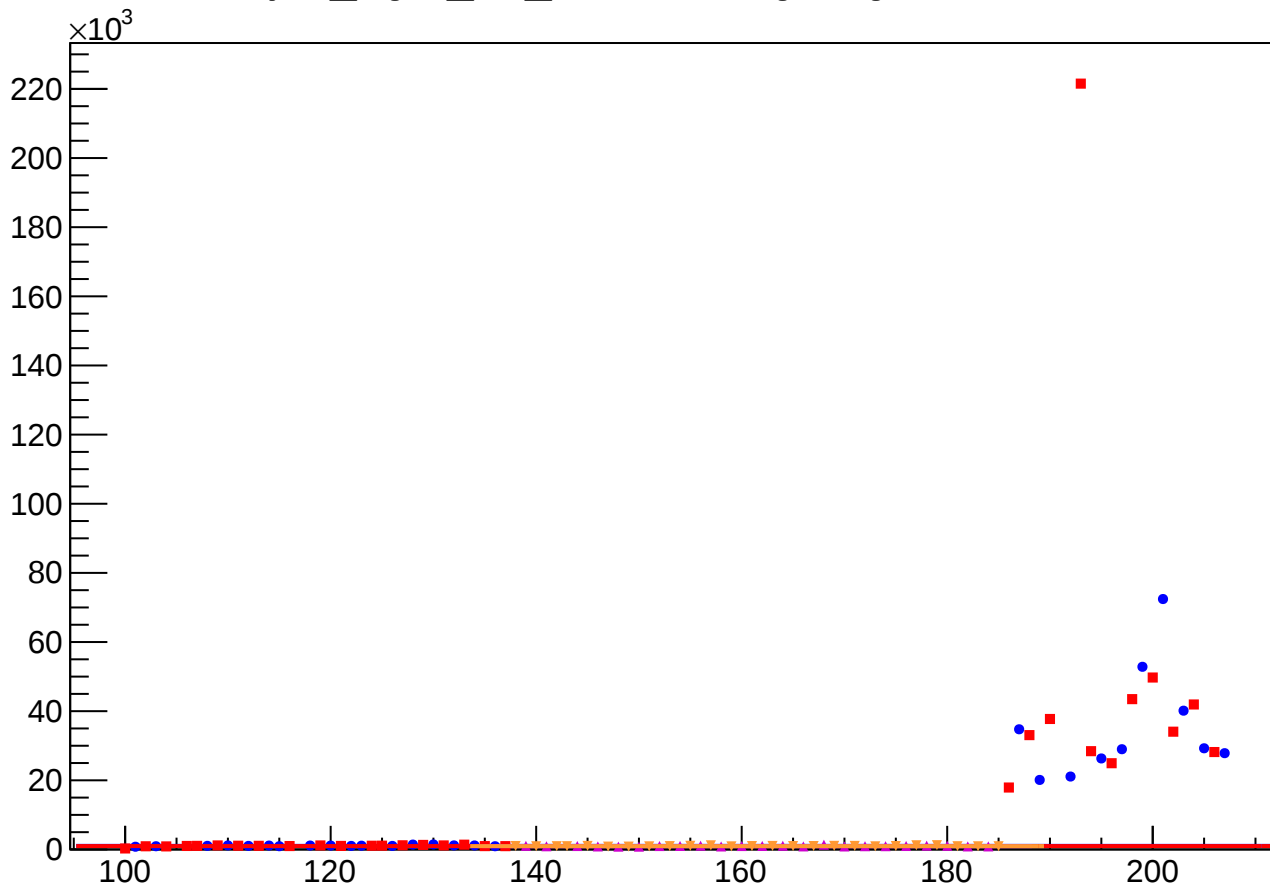
Right: 1395.570 $\pm$ 275.072 χ^2 /NDF: 45.9/55

In: 1259.838 $\pm$ 199.877 χ^2 /NDF: 48.3/49

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

All: 1067.737 $\pm$ 139.049 χ^2 /NDF: 94.1/103

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.107 $\pm$ 0.285 χ^2 /NDF: 5804269.7/26

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

Right Out: 977.630 $\pm$ 0.266 χ^2 /NDF: 6354710.1/29

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

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

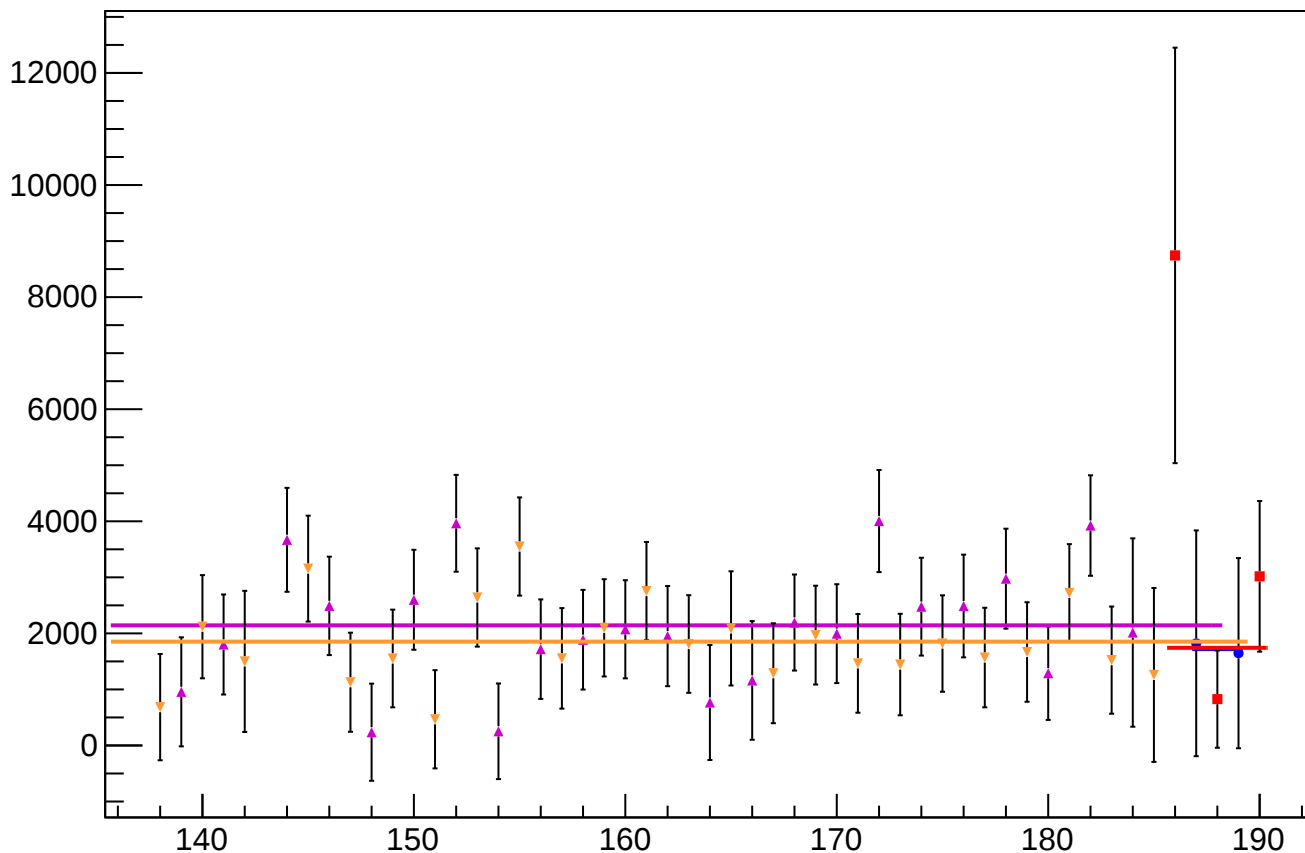
Right: 1006.305 $\pm$ 0.195 χ^2 /NDF: 12183842.7/56

In: 975.963 $\pm$ 0.141 χ^2 /NDF: 6312560.1/49

Out: 966.701 $\pm$ 0.137 χ^2 /NDF: 6719837.2/54

All: 971.184 $\pm$ 0.098 χ^2 /NDF: 13034613.8/10

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

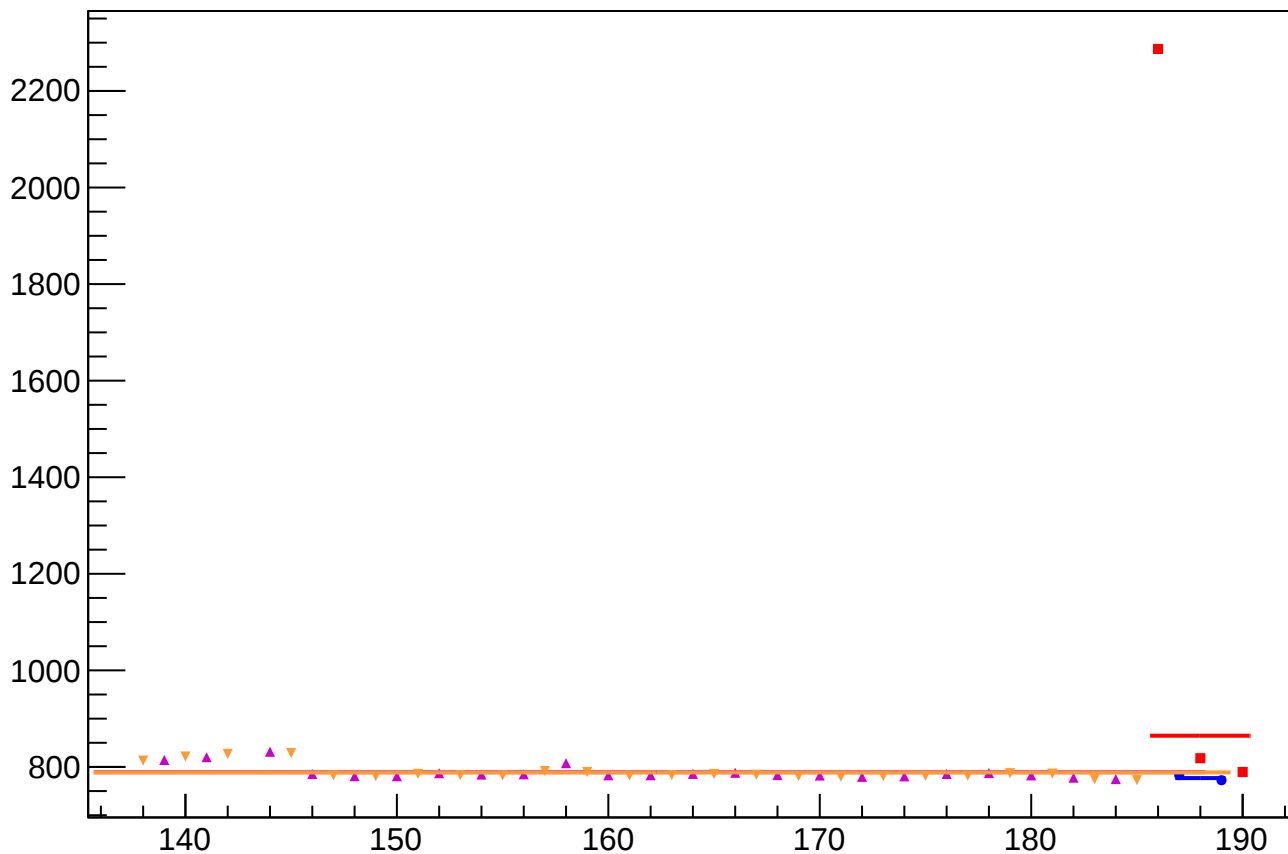
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

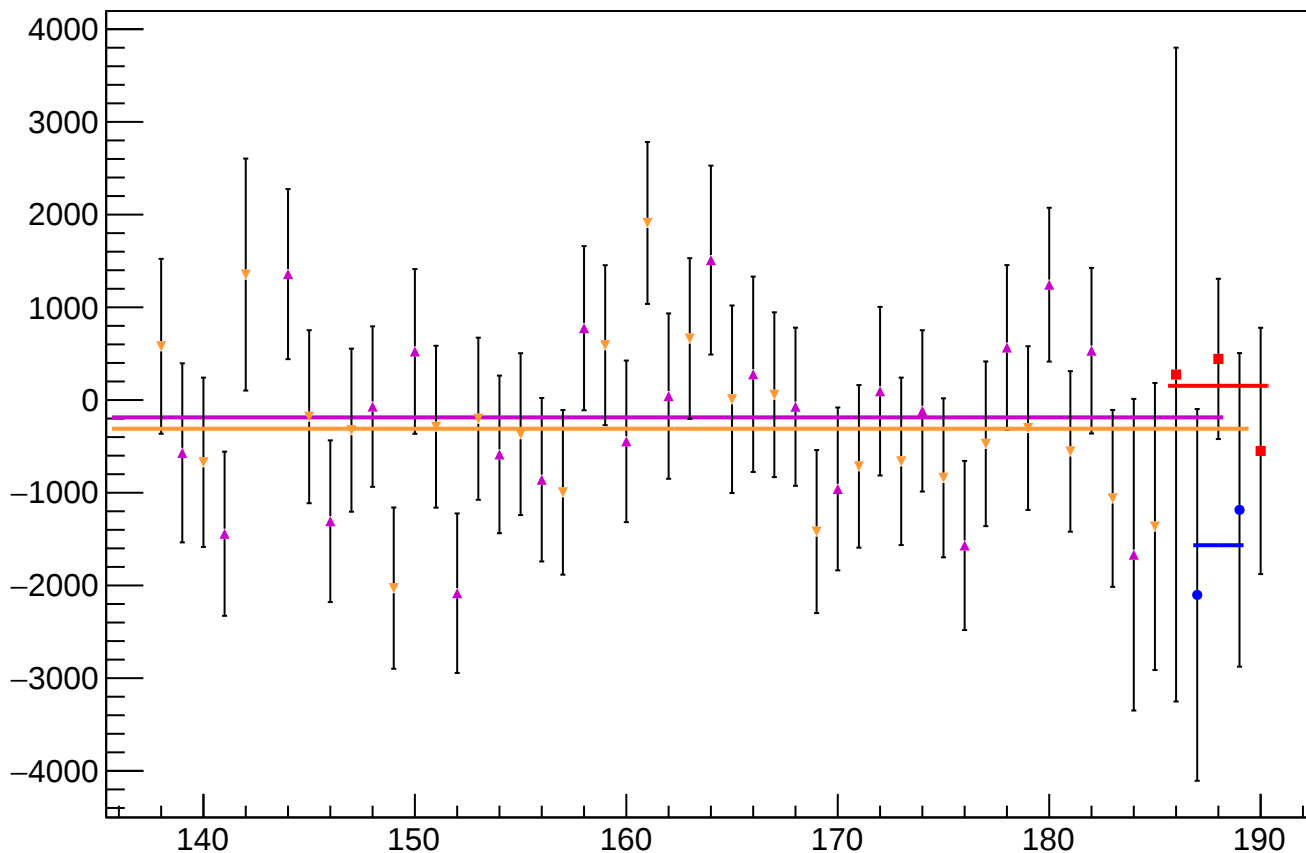
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

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

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

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

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

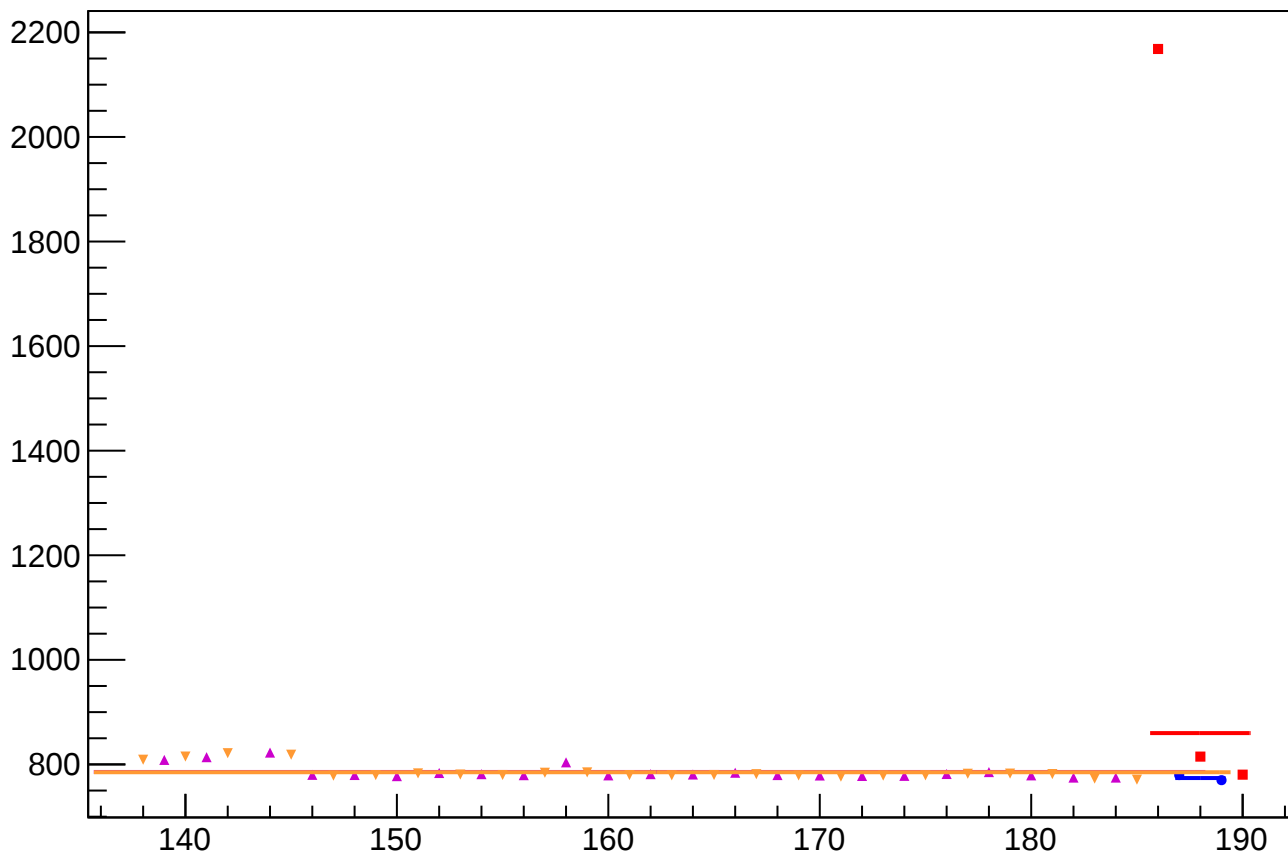
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

Right Out: 859.900+/-0.502 χ^2/NDF : 287948.2/2

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

Left: 785.302+/-0.094 χ^2/NDF : 18405.7/46

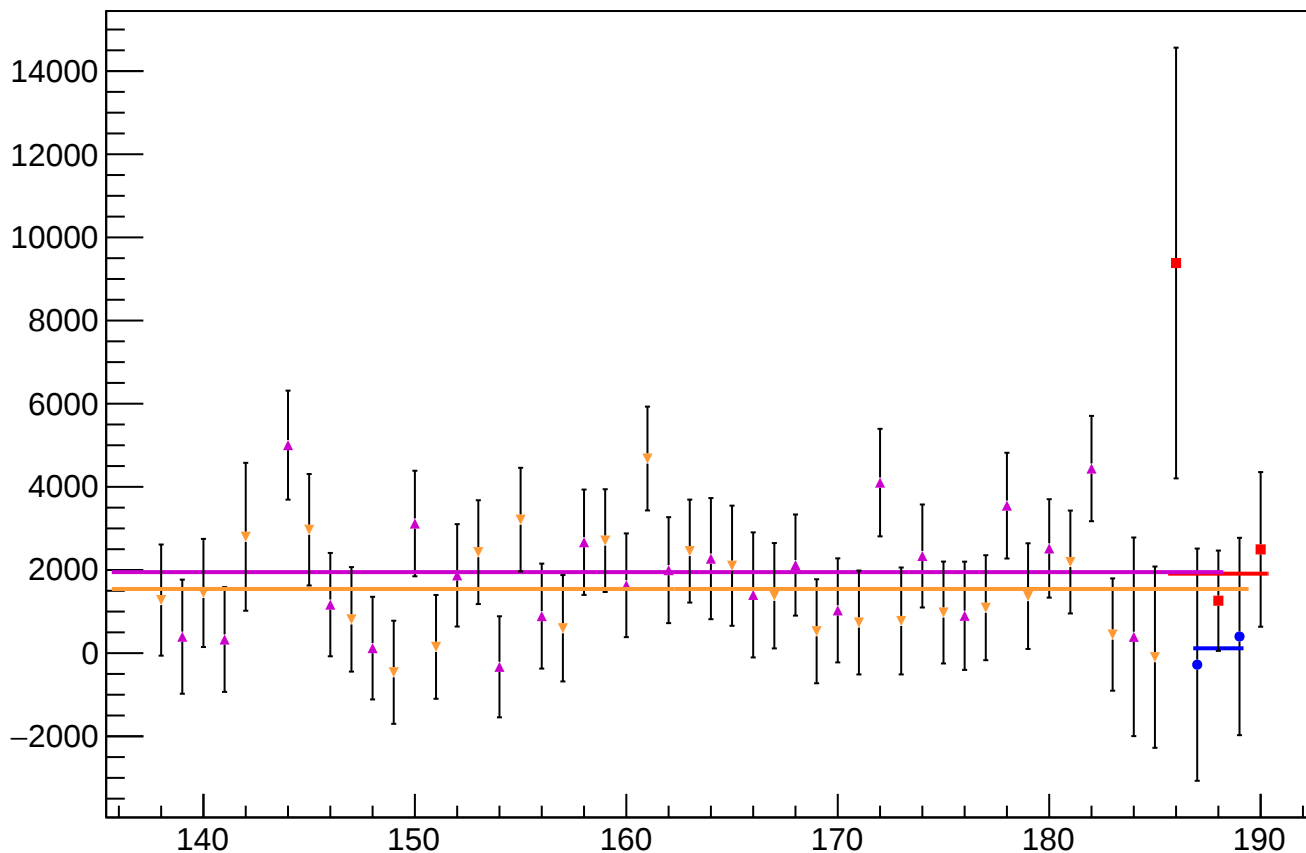
Right: 839.990+/-0.440 χ^2/NDF : 294774.5/4

In: 785.318+/-0.132 χ^2/NDF : 9219.5/24

Out: 789.888+/-0.128 χ^2/NDF : 318126.2/26

All: 787.688+/-0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

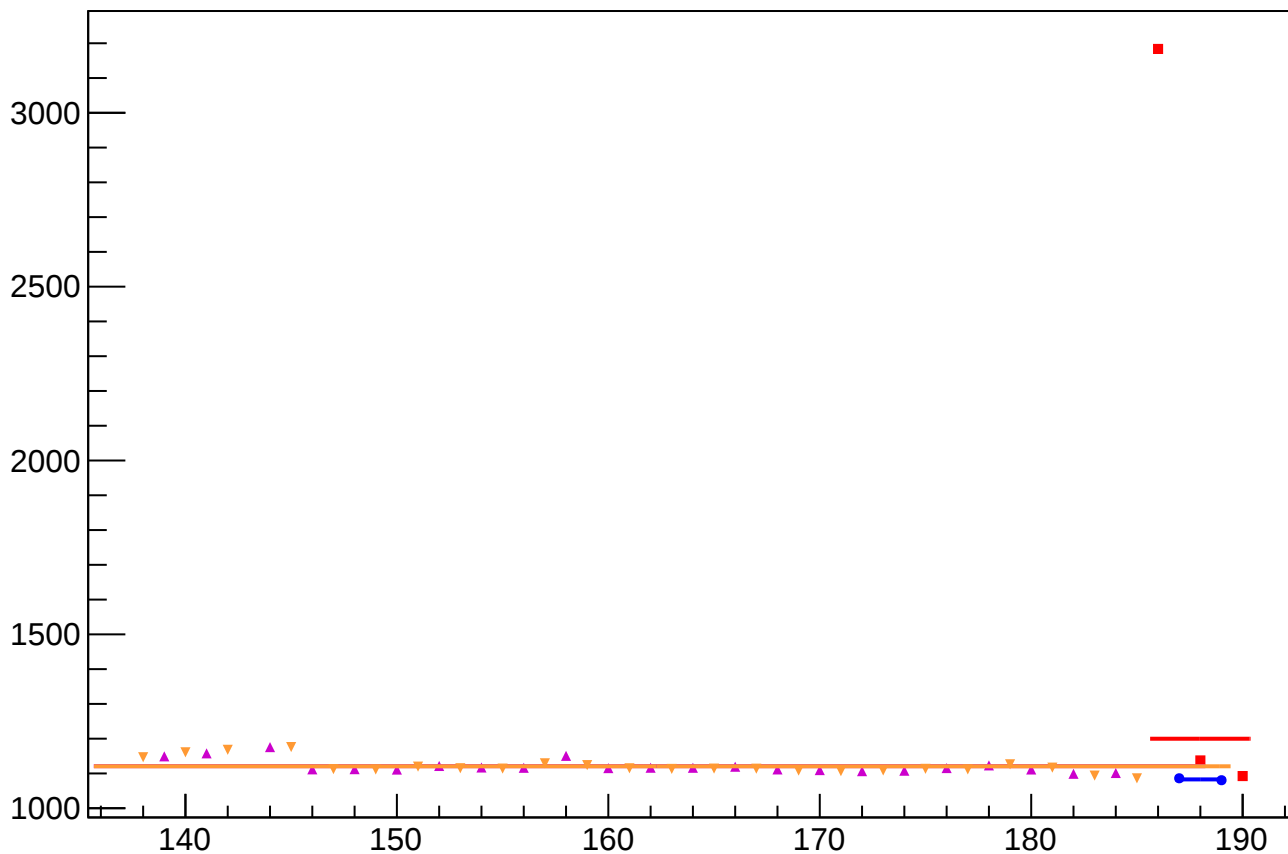
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



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

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

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

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

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

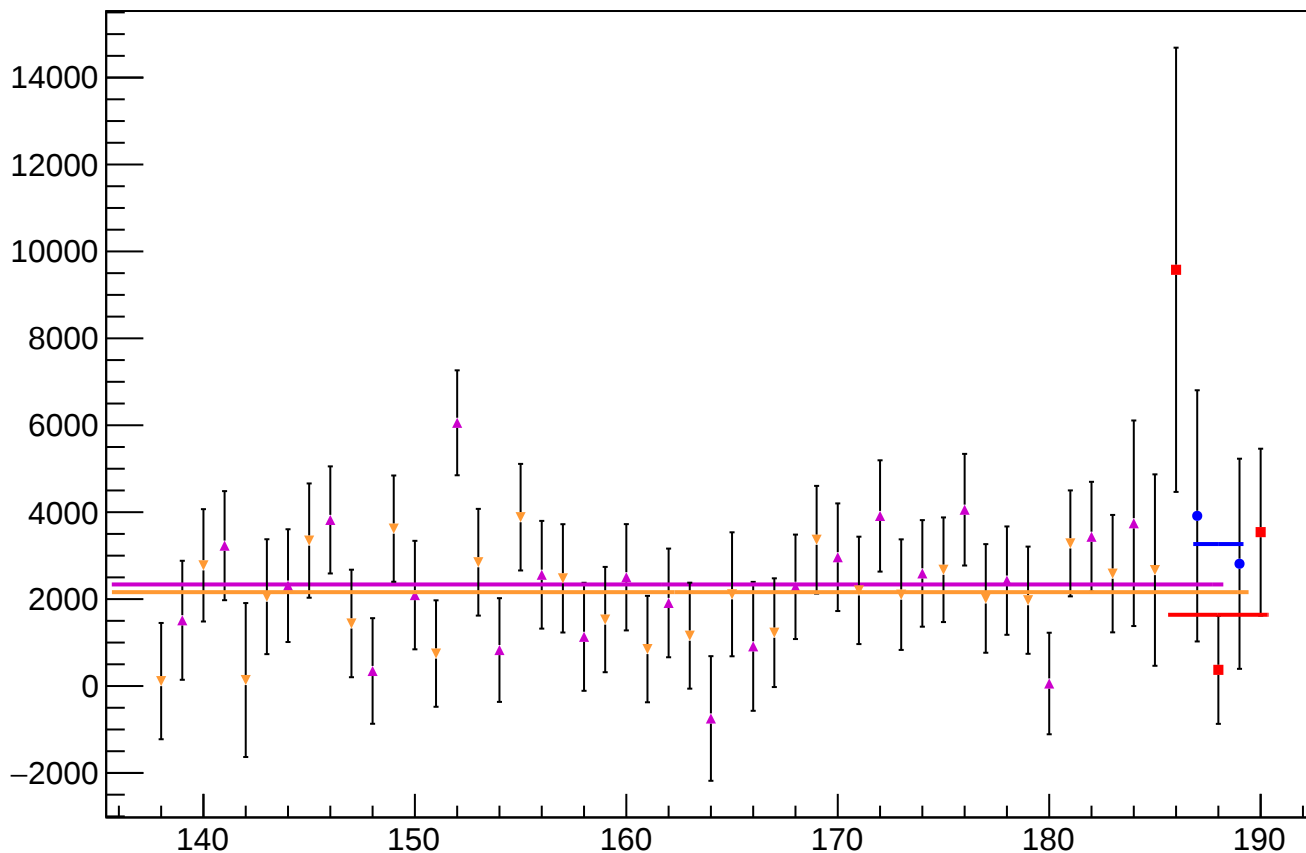
Right: 1172.741 $\pm$ 0.616 χ^2/NDF : 311788.3/4

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

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

All: 1123.129 $\pm$ 0.131 χ^2/NDF : 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

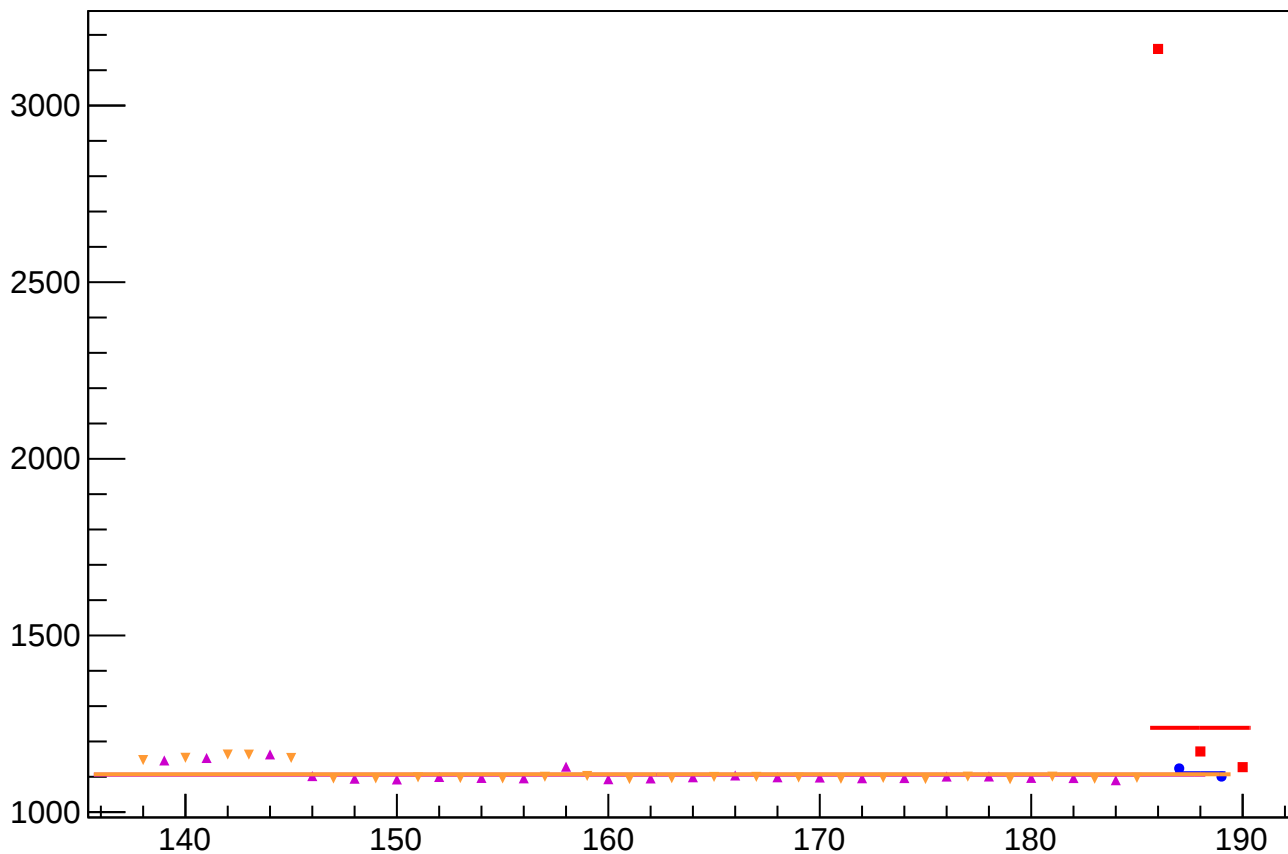
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

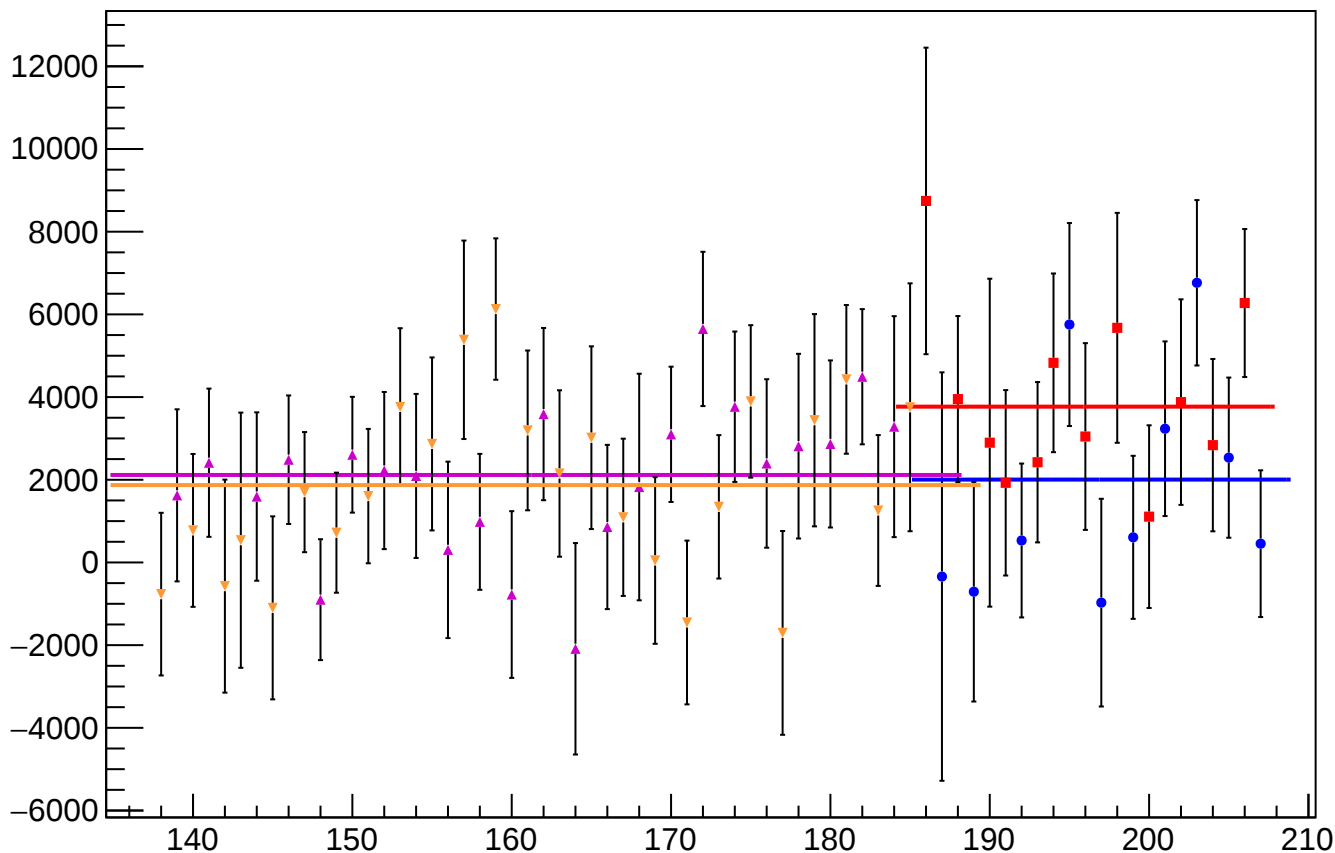
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2004.334+/-688.242 χ^2/NDF : 13.0/9

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

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

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

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

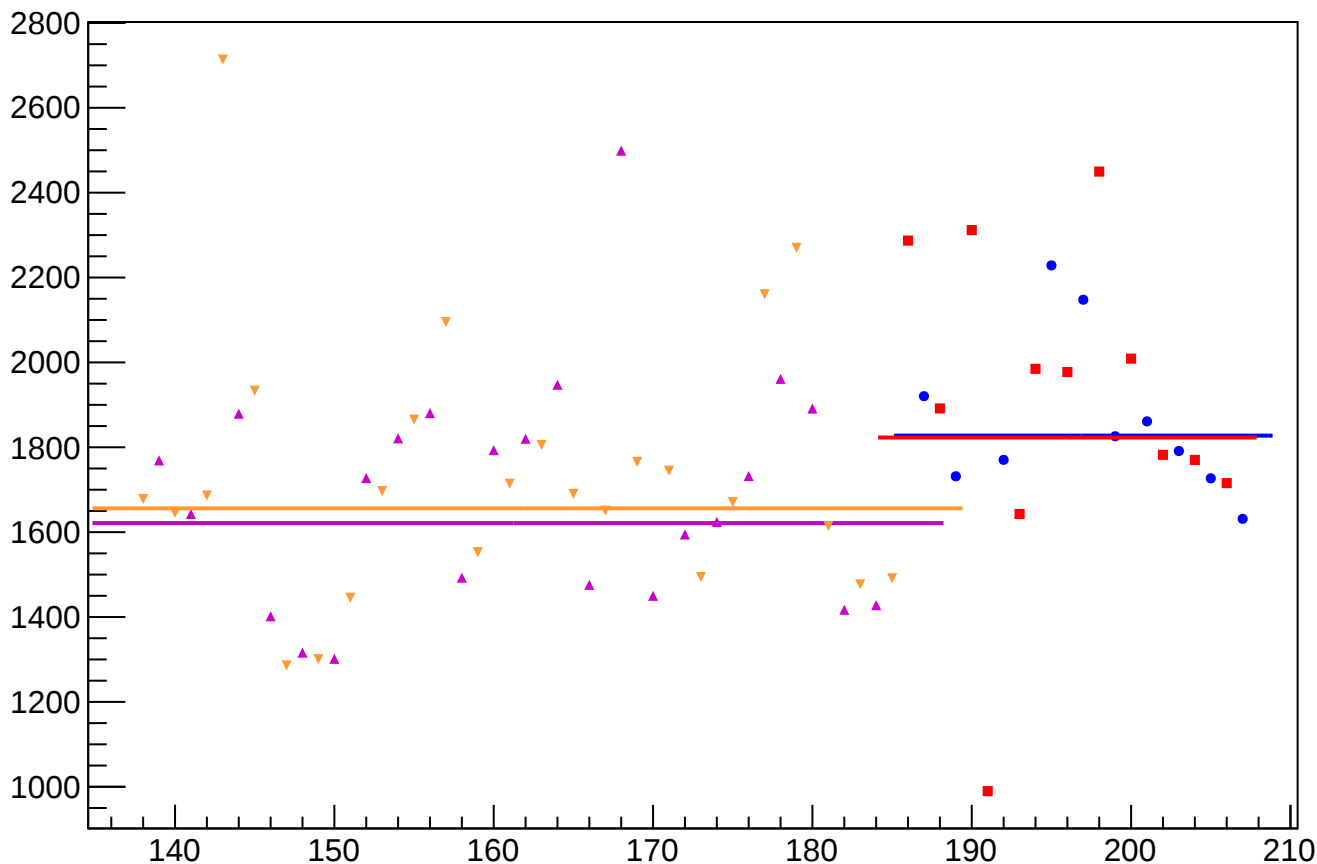
Right: 2923.800+/-476.267 χ^2/NDF : 23.8/21

In: 2088.629+/-341.277 χ^2/NDF : 31.8/32

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

All: 2229.161+/-239.721 χ^2/NDF : 71.8/69

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1827.473+/-0.487 χ^2/NDF : 122059.4/9

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

Right Out: 1822.986+/-0.467 χ^2/NDF : 502848.0/11

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

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

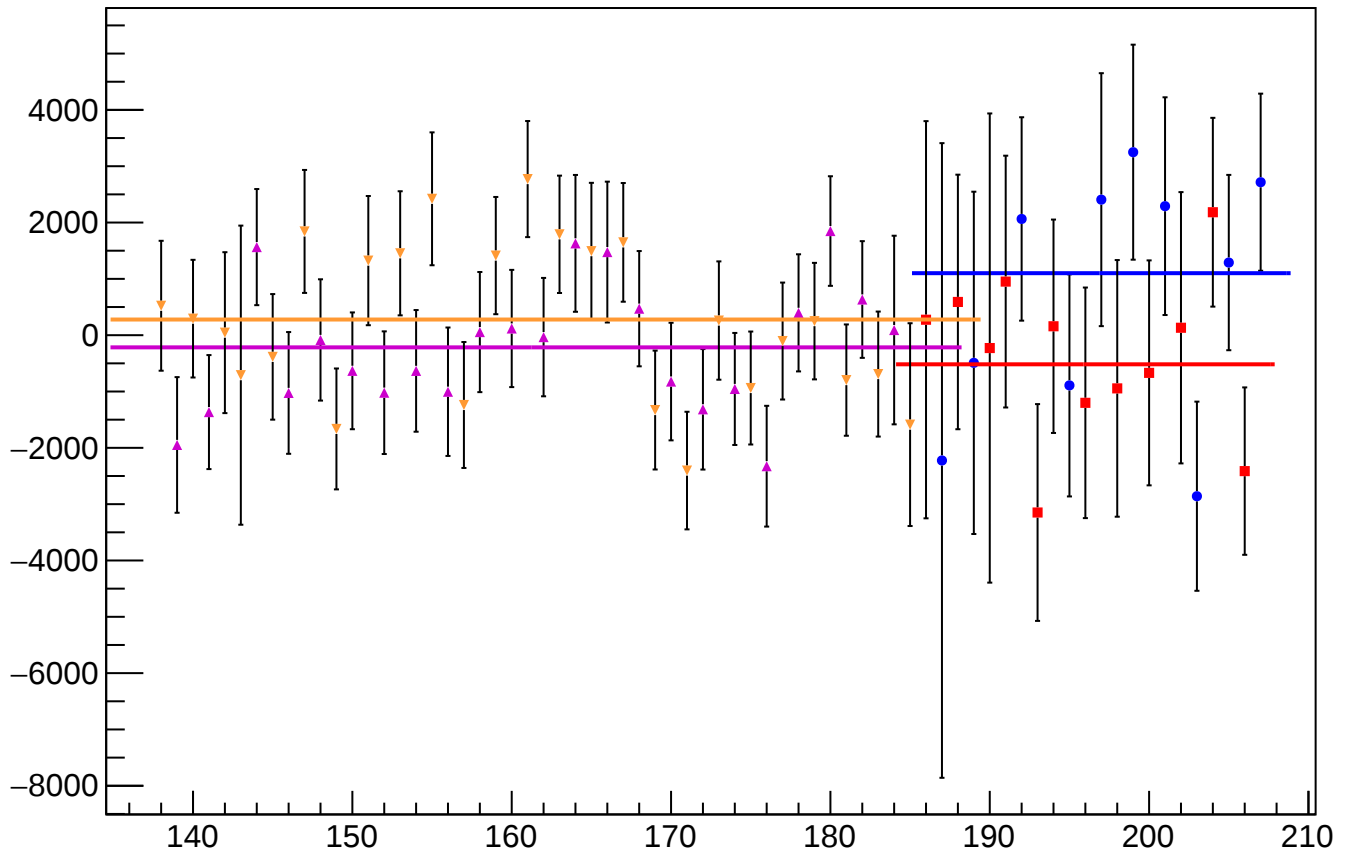
Right: 1825.135+/-0.337 χ^2/NDF : 624951.8/21

In: 1672.083+/-0.241 χ^2/NDF : 1032563.6/32

Out: 1699.606+/-0.238 χ^2/NDF : 1508020.3/36

All: 1686.026+/-0.170 χ^2/NDF : 2547173.7/69

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1100.970 $\pm$ 618.239 χ^2 /NDF: 10.5/9

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

Right Out: -517.032 $\pm$ 603.459 χ^2 /NDF: 7.2/11

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

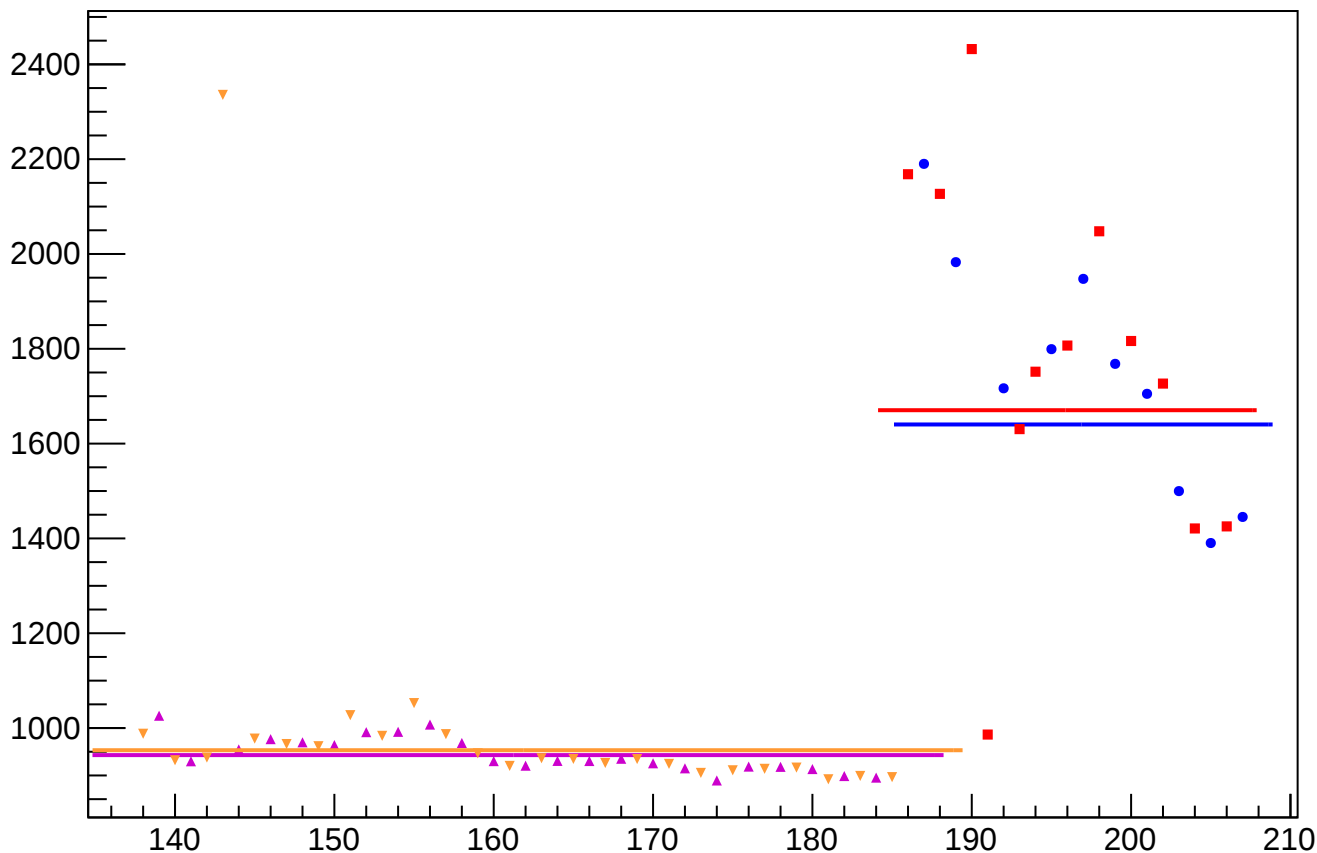
Right: 272.397 $\pm$ 431.841 χ^2 /NDF: 21.2/21

In: -61.349 $\pm$ 211.931 χ^2 /NDF:39.0/32

Out: 182.118 $\pm$ 209.654 χ^2 /NDF:47.1/36

All: 61.700 $\pm$ 149.046 χ^2 /NDF: 86.7/69

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1640.373 +/- 0.437 χ^2/NDF : 206049.0/9

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

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

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

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

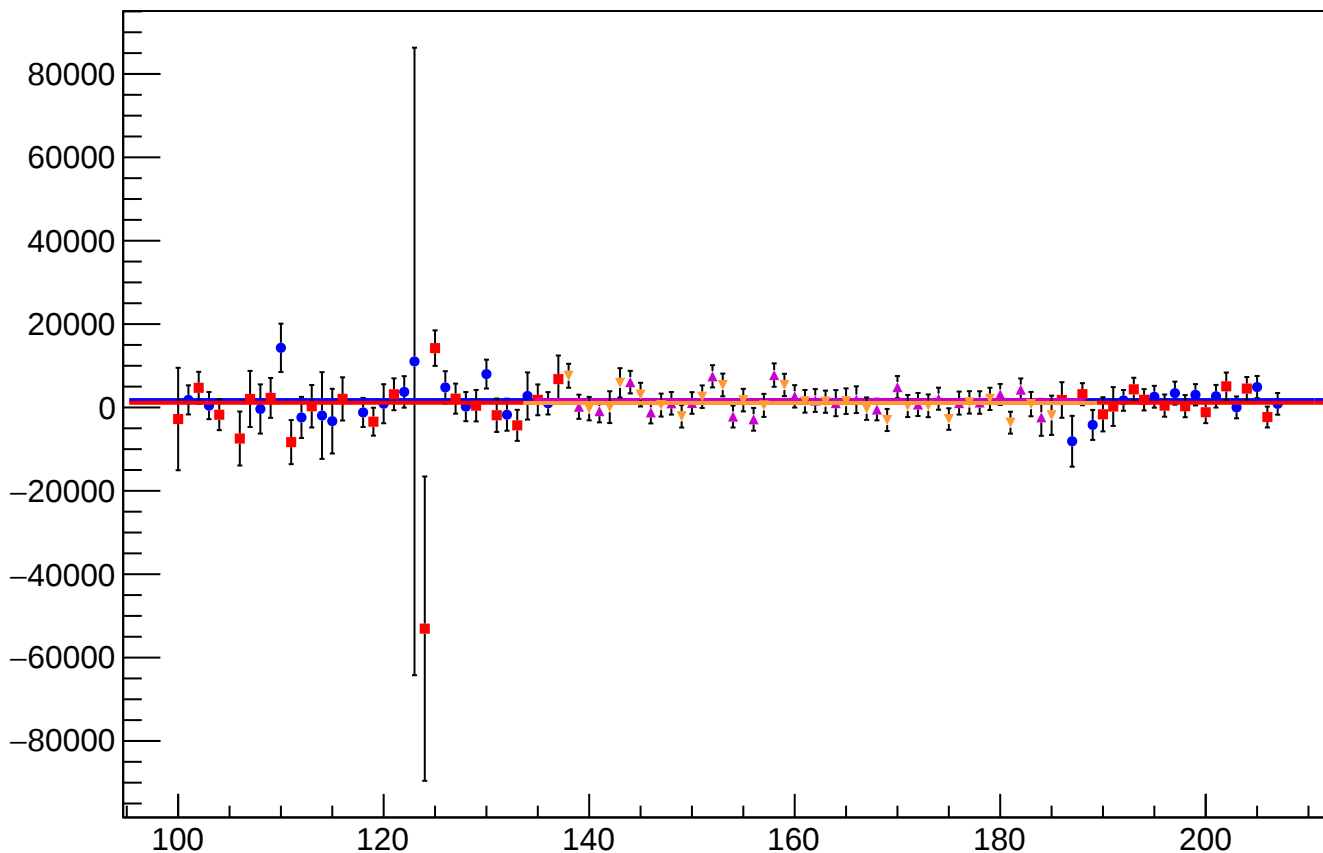
Right: 1655.781 +/- 0.305 χ^2/NDF : 762970.0/21

In: 1024.884 +/- 0.150 χ^2/NDF : 2500652.2/32

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

All: 1032.419 +/- 0.105 χ^2/NDF : 6150699.2/69

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1773.659 $\pm$ 668.841 χ^2 /NDF: 20.4/26

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

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

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

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

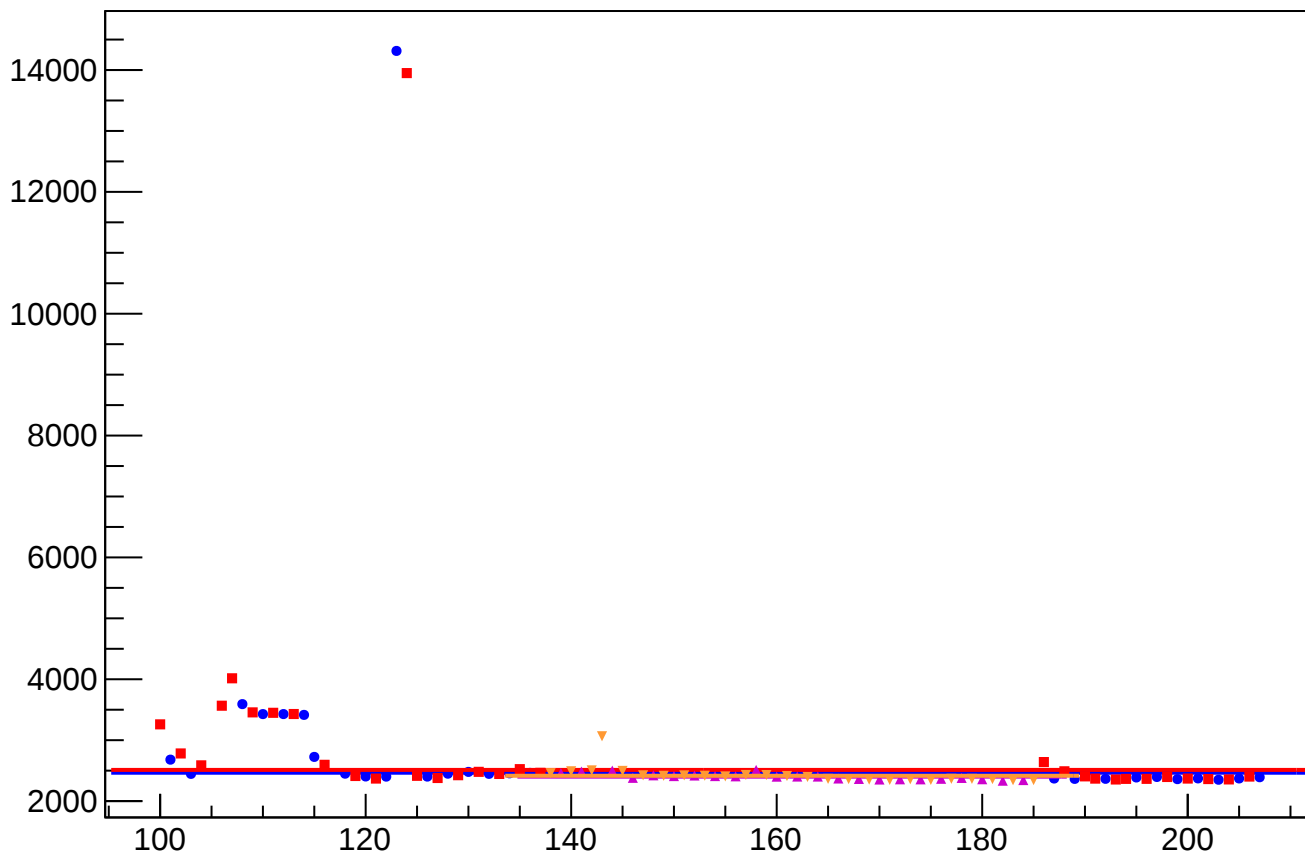
Right: 1442.286 $\pm$ 467.294 χ^2 /NDF: 53.4/57

In: 1775.635 $\pm$ 436.412 χ^2 /NDF:44.5/49

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

All: 1429.669 $\pm$ 305.163 χ^2 /NDF: 101.8/105

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2465.889+/-0.473 χ^2/NDF : 304058.2/26

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

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

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

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

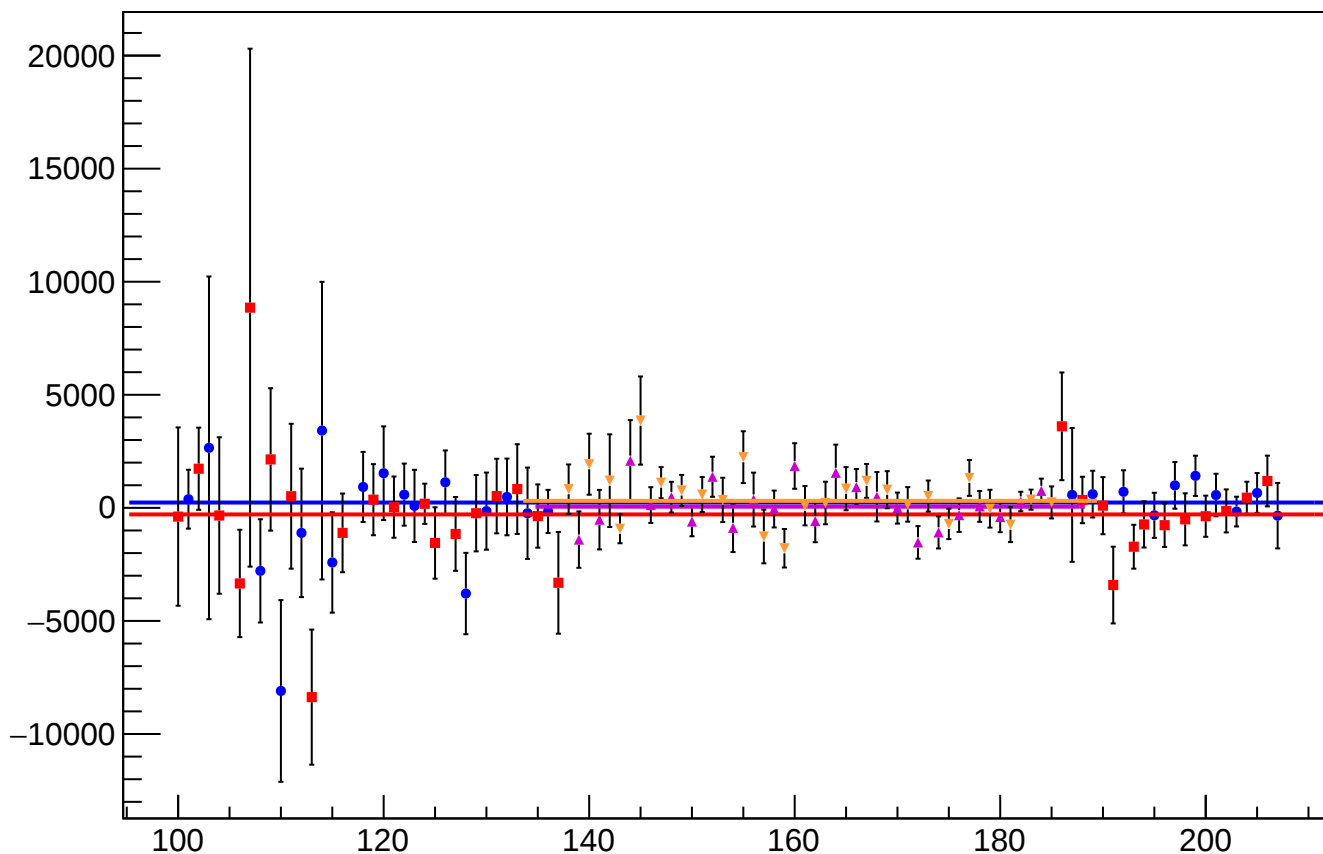
Right: 2489.512+/-0.330 χ^2/NDF : 941022.4/57

In: 2428.868+/-0.309 χ^2/NDF : 328475.9/49

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

All: 2443.263+/-0.216 χ^2/NDF : 1072221.1/10

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 235.455 $\pm$ 248.415 χ^2/NDF : 18.3/26

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

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

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

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

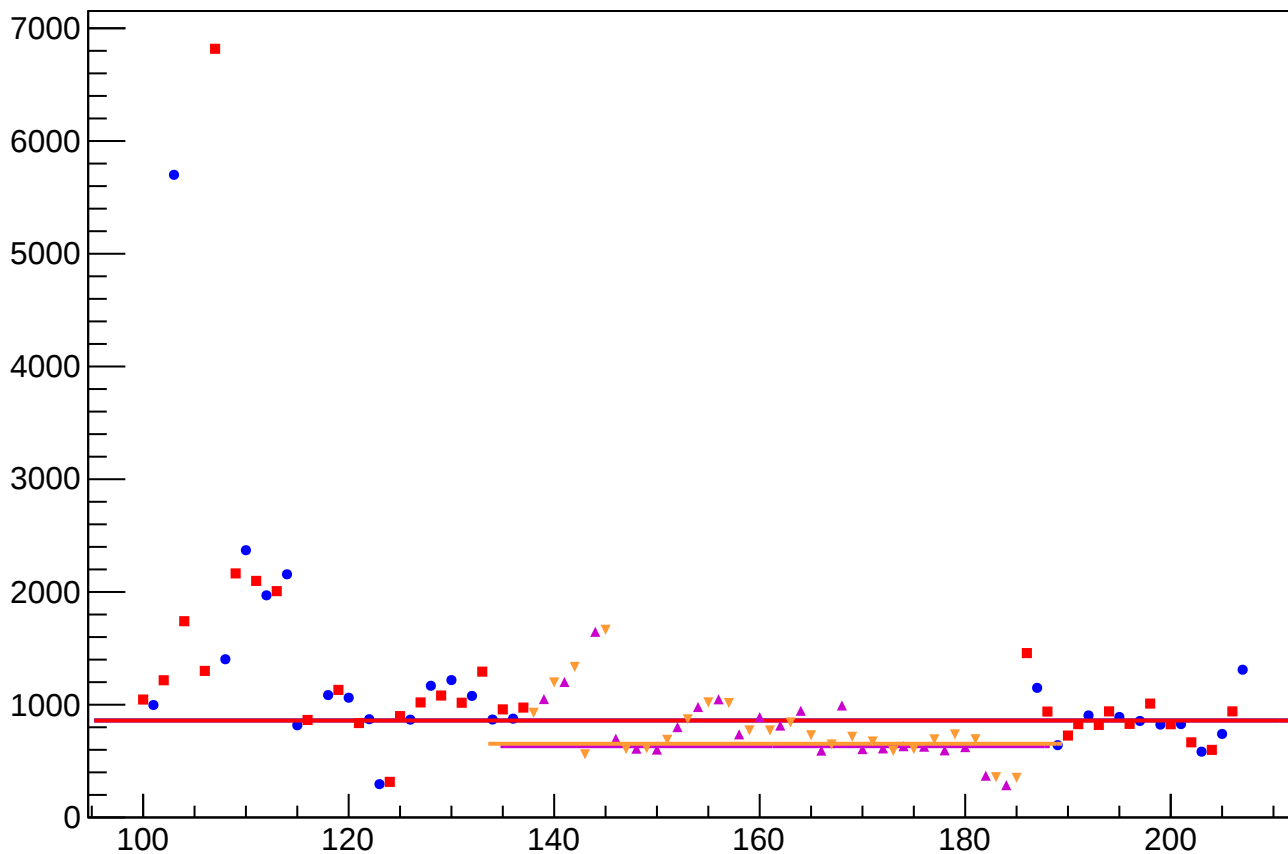
Right: -33.606 $\pm$ 173.506 χ^2/NDF : 48.2/57

In: 106.235 $\pm$ 135.545 χ^2/NDF :42.6/49

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

All: 117.033 $\pm$ 95.264 χ^2/NDF : 104.1/105

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 860.579 $\pm$ 0.176 χ^2 /NDF: 2815440.9/26

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

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

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

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

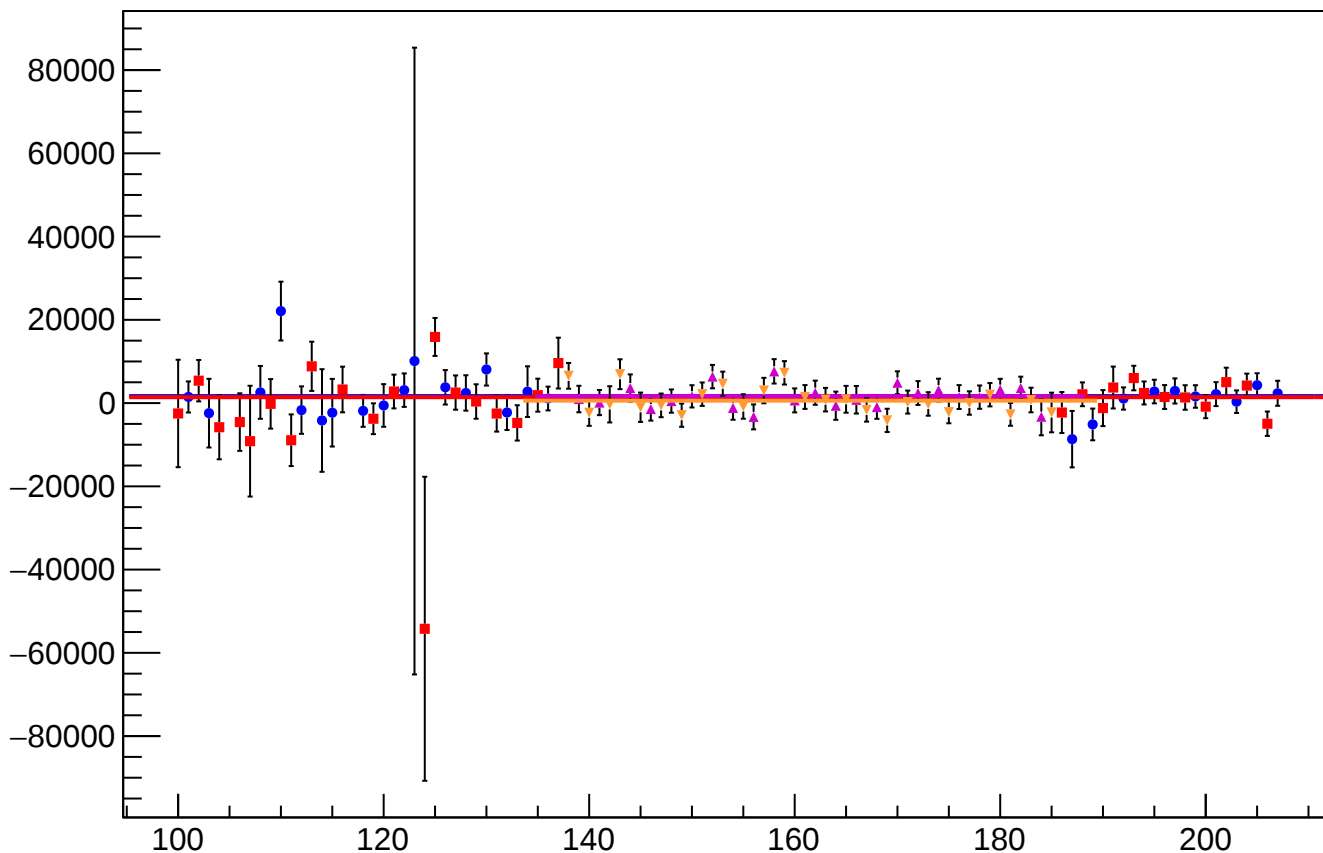
Right: 860.155 $\pm$ 0.123 χ^2 /NDF: 6147329.7/57

In: 700.090 $\pm$ 0.096 χ^2 /NDF:7946945.3/49

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

All: 708.465 $\pm$ 0.067 χ^2 /NDF: 15551489.3/100

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1677.574+/-739.418 χ^2/NDF : 21.6/26

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

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

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

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

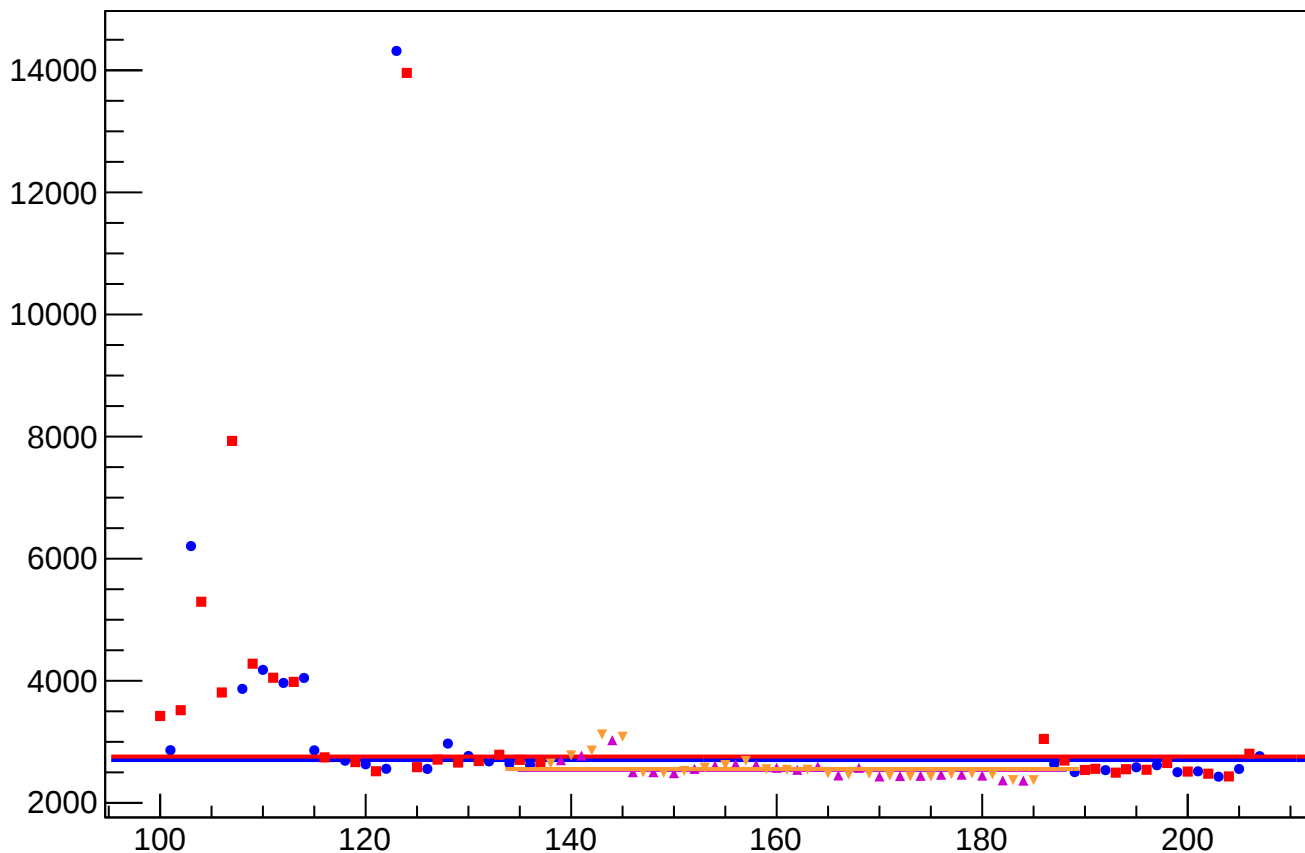
Right: 1544.979+/-518.130 χ^2/NDF : 59.8/57

In: 1678.763+/-470.595 χ^2/NDF : 39.8/49

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

All: 1290.856+/-329.411 χ^2/NDF : 105.4/105

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2701.867+/-0.523 χ^2/NDF : 769334.0/26

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

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

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

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

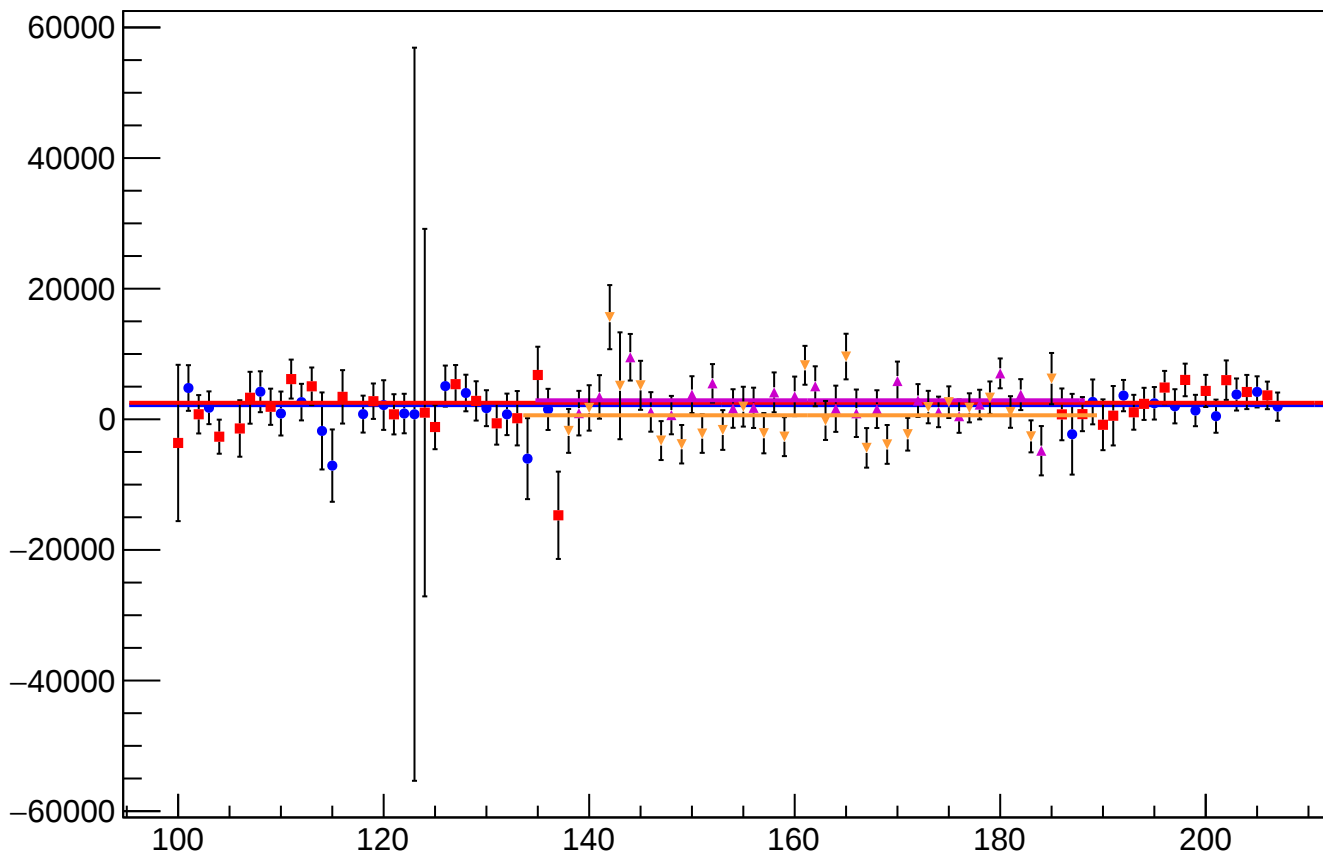
Right: 2730.913+/-0.366 χ^2/NDF : 2009618.8/57

In: 2606.152+/-0.333 χ^2/NDF :920418.7/49

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

All: 2622.105+/-0.233 χ^2/NDF : 2407718.4/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2169.487 $\pm$ 578.537 χ^2 /NDF: 10.8/26

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

Right Out: 2526.411 $\pm$ 560.540 χ^2 /NDF: 26.4/30

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

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

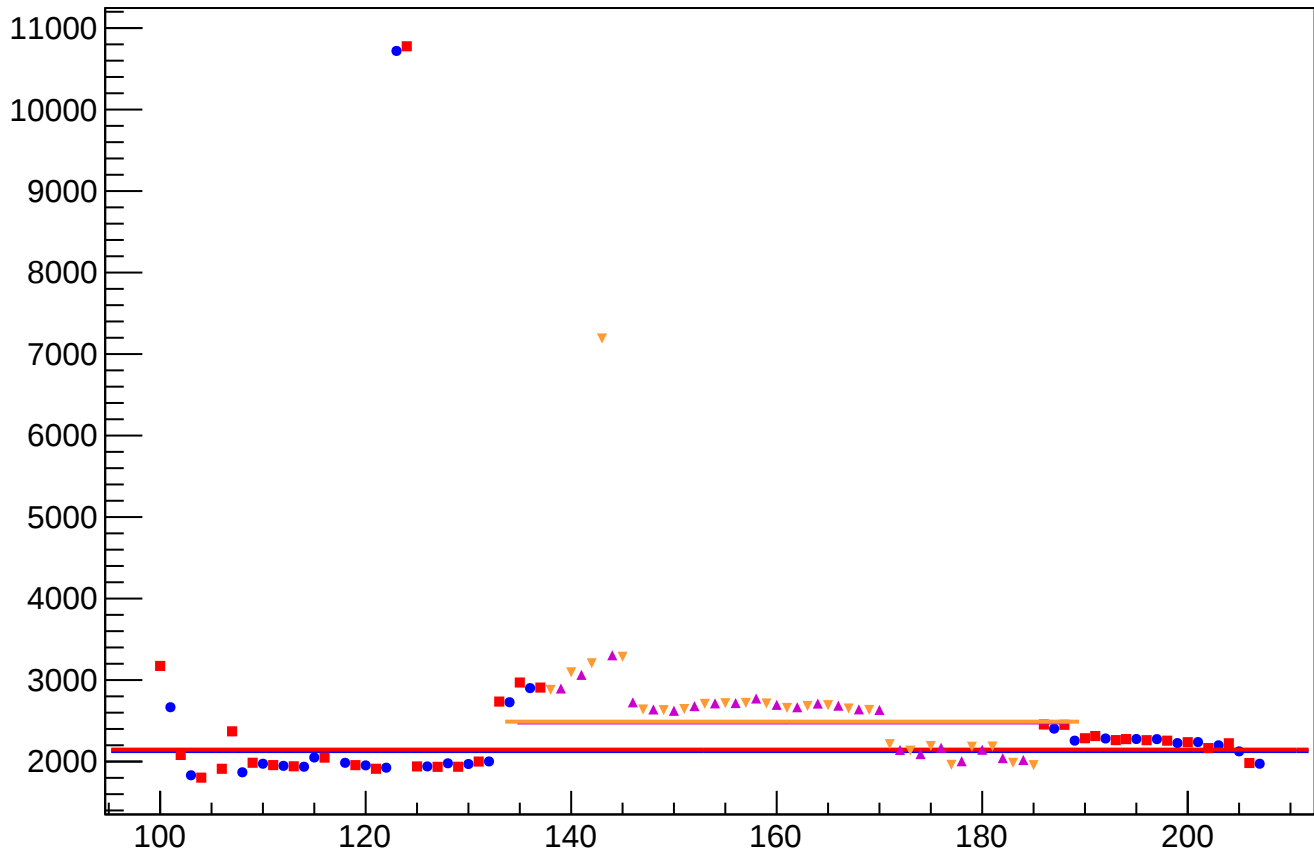
Right: 2353.587 $\pm$ 402.574 χ^2 /NDF: 37.4/57

In: 2526.033 $\pm$ 416.359 χ^2 /NDF: 29.0/49

Out: 1621.406 $\pm$ 406.752 χ^2 /NDF: 77.1/55

All: 2063.162 $\pm$ 290.954 χ^2 /NDF: 108.5/105

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2128.531+/-0.409 χ^2/NDF : 379086.8/26

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

Right Out: 2146.520+/-0.396 χ^2/NDF : 547033.7/30

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

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

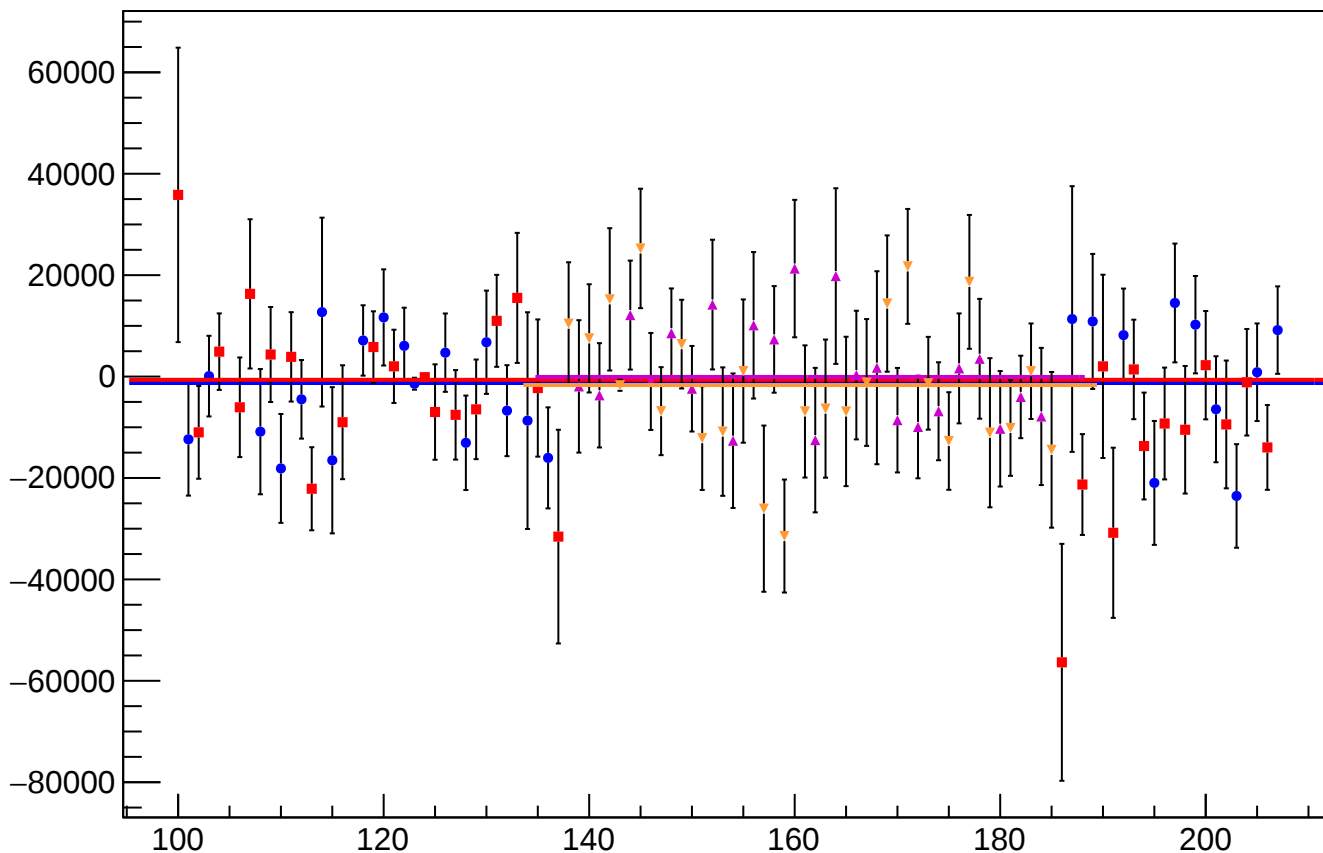
Right: 2137.810+/-0.285 χ^2/NDF : 927117.9/57

In: 2297.648+/-0.294 χ^2/NDF :1402003.6/49

Out: 2308.937+/-0.288 χ^2/NDF :2265900.4/55

All: 2303.424+/-0.206 χ^2/NDF : 3668656.4/100

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1267.673+/-1007.183 χ^2/NDF : 30.2/26

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

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

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

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

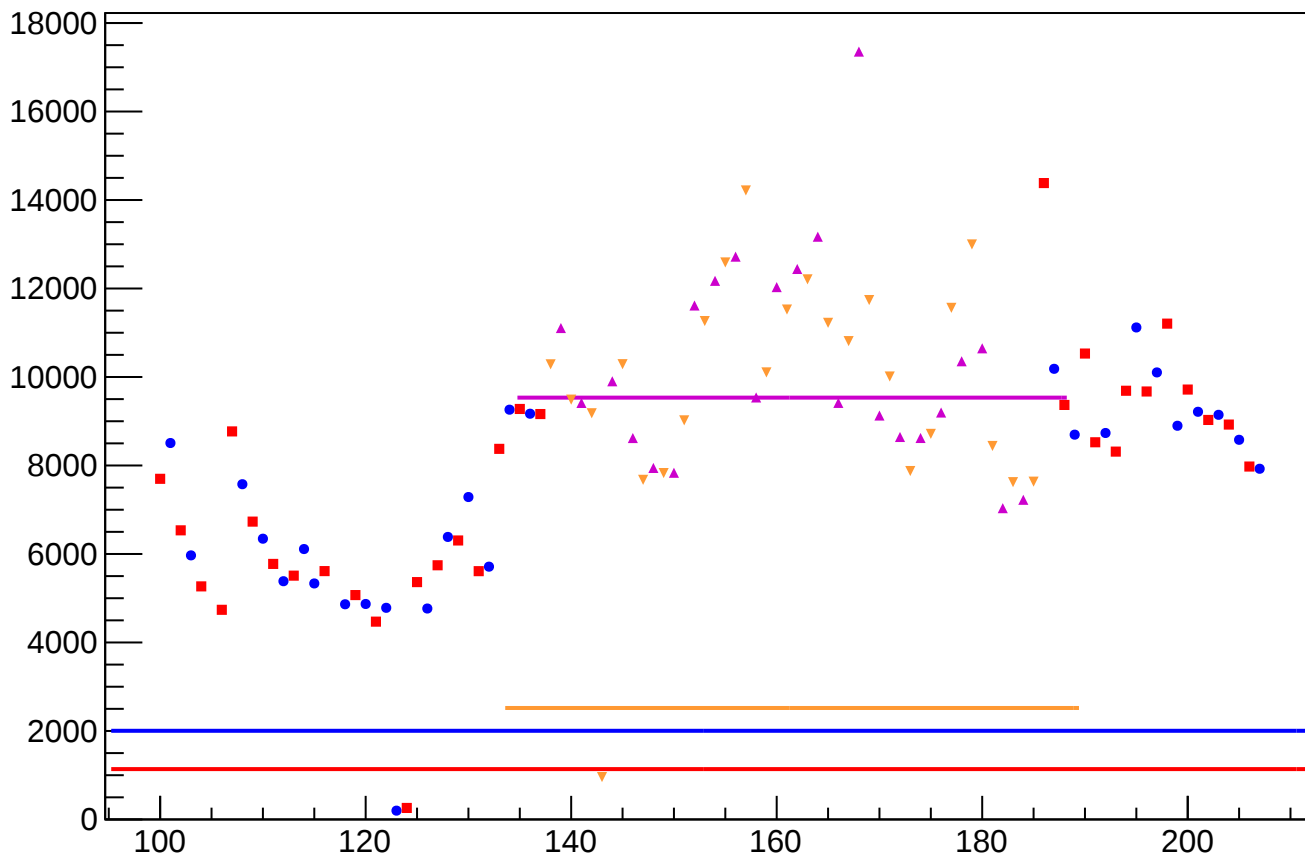
Right: -835.479+/-563.885 χ^2/NDF : 71.0/57

In: -1080.939+/-924.601 χ^2/NDF : 44.3/49

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

All: -997.270+/-479.851 χ^2/NDF : 117.9/105

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2003.857+/-0.712

χ^2/NDF : 19534330.6/26

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right: 1409.473+/-0.399

χ^2/NDF : 44802696.1/57

Right Out: 1138.105+/-0.481

χ^2/NDF : 24253815.1/30

In: 3188.001+/-0.654

χ^2/NDF : 38430035.3/49

Out: 1579.494+/-0.397

χ^2/NDF : 50528732.8/55

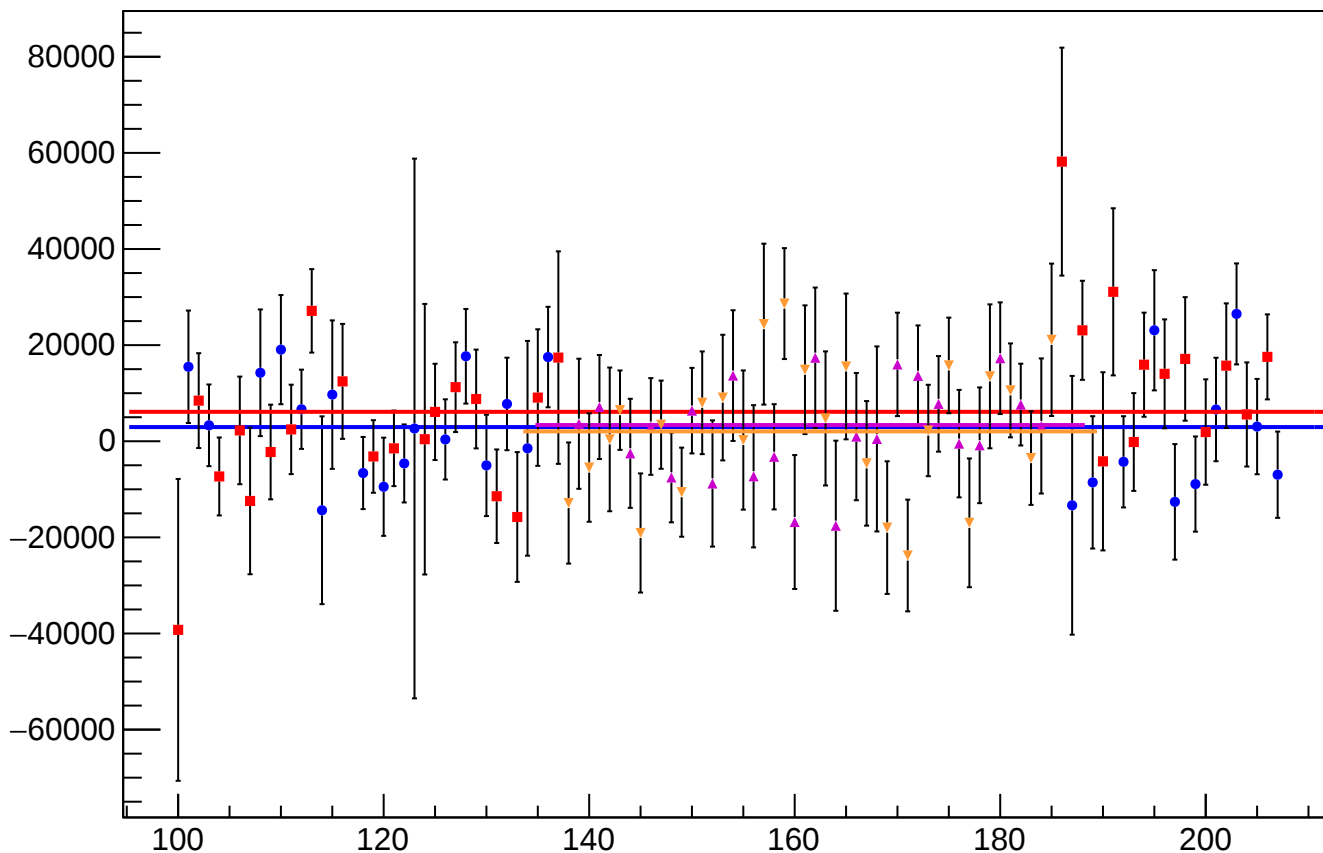
Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2012.733+/-0.339

χ^2/NDF : 93381397.0/1

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2950.346+/-2057.760 χ^2/NDF : 27.9/26

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

Right Out: 6123.633+/-1981.145 χ^2/NDF : 37.2/30

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

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

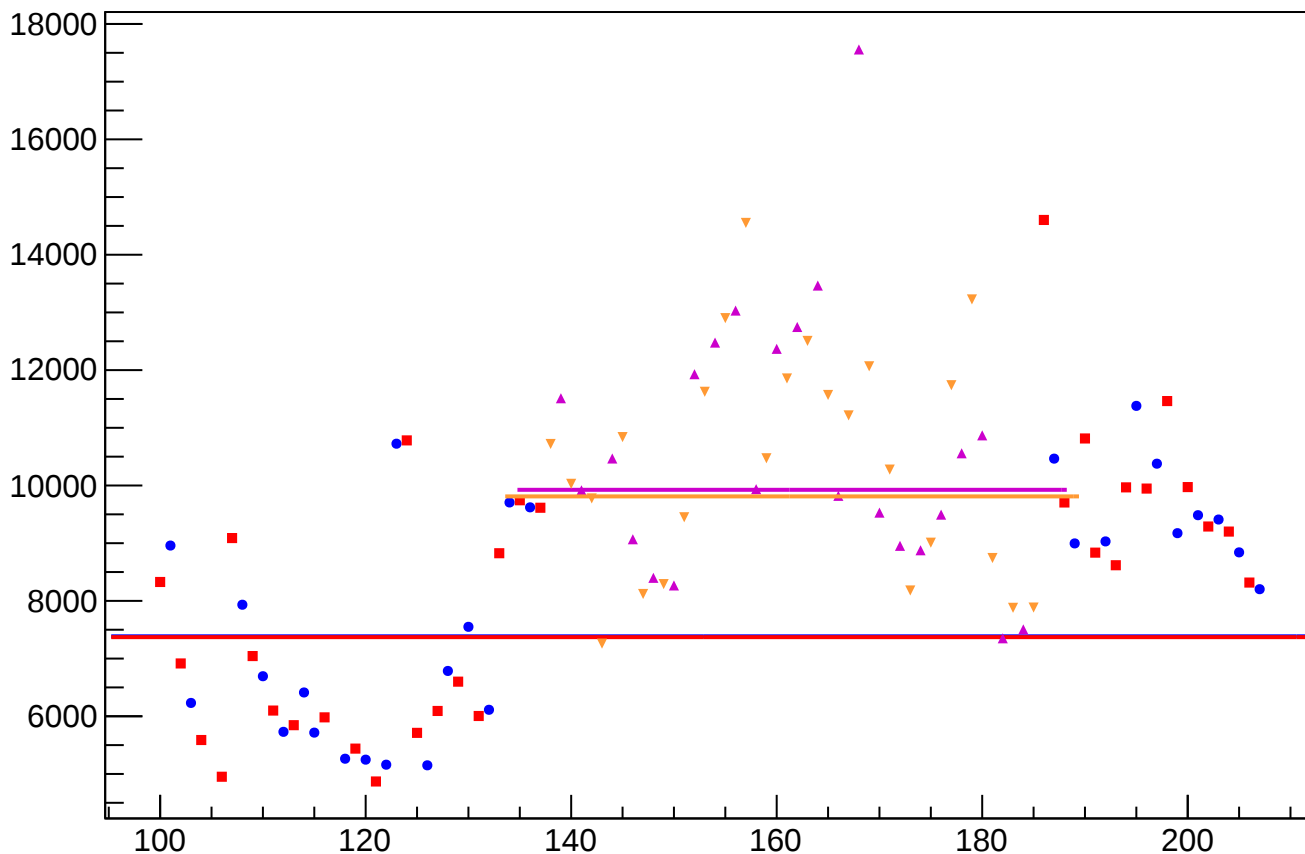
Right: 4597.163+/-1427.198 χ^2/NDF : 66.4/57

In: 3126.980+/-1568.526 χ^2/NDF :41.0/49

Out: 4419.772+/-1510.255 χ^2/NDF :69.7/55

All: 3797.836+/-1087.929 χ^2/NDF : 111.1/105

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7385.723+/-1.455

χ^2/NDF : 1614065.2/26

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right Out: 7371.324+/-1.401

χ^2/NDF : 2014545.7/30

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

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

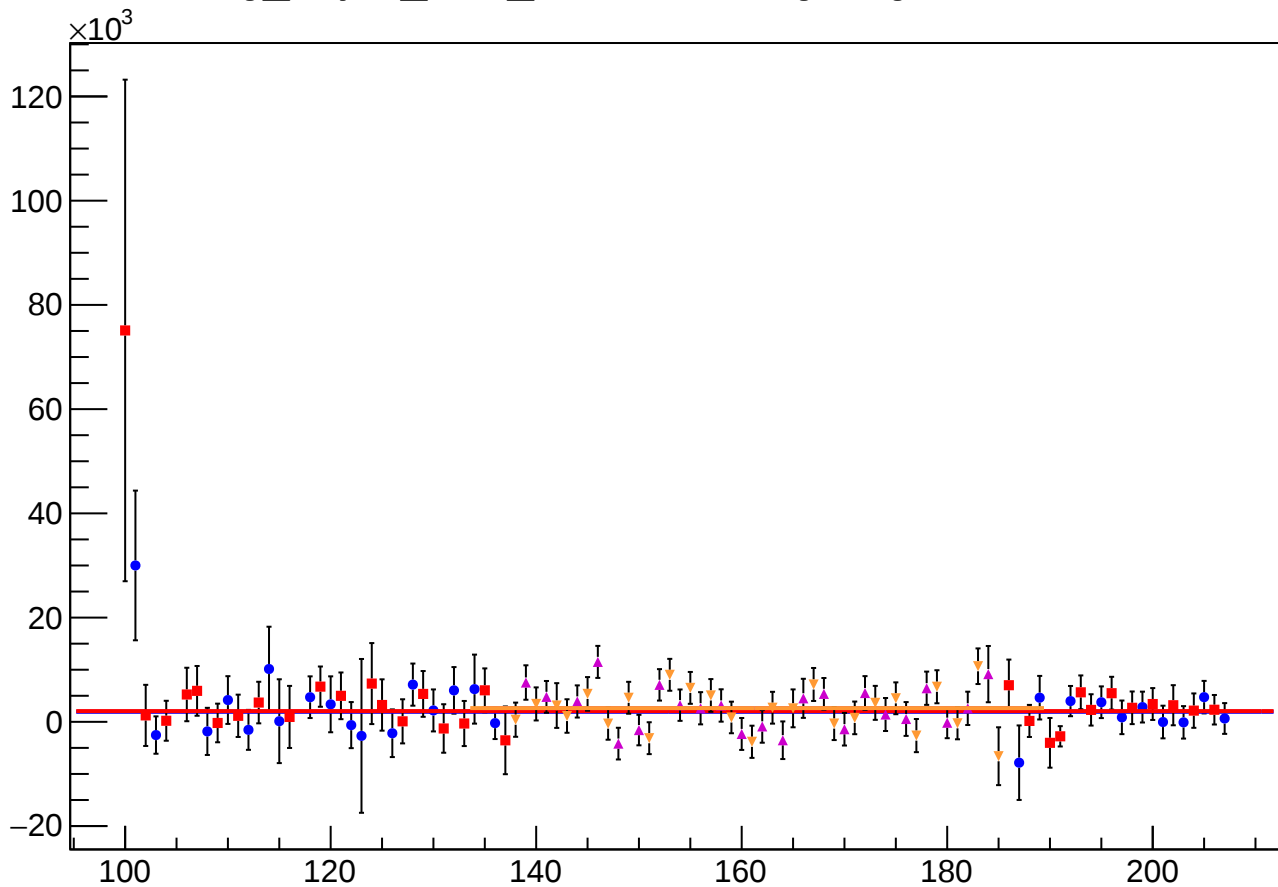
Right: 7378.250+/-1.009 χ^2/NDF : 3628661.7/57

In: 8449.725+/-1.109 χ^2/NDF : 4101989.1/49

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

All: 8420.392+/-0.769 χ^2/NDF : 8602257.3/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1925.181 ± 762.990 $\chi^2/\text{NDF}: 18.6/26$

Left Out: 2635.833 ± 646.121 $\chi^2/\text{NDF}: 35.1/24$

Right Out: 2058.794 ± 686.730 $\chi^2/\text{NDF}: 21.9/30$

Left In: 2638.607 ± 664.569 $\chi^2/\text{NDF}: 35.2/22$

Left: 2637.181 ± 463.261 $\chi^2/\text{NDF}: 70.3/47$

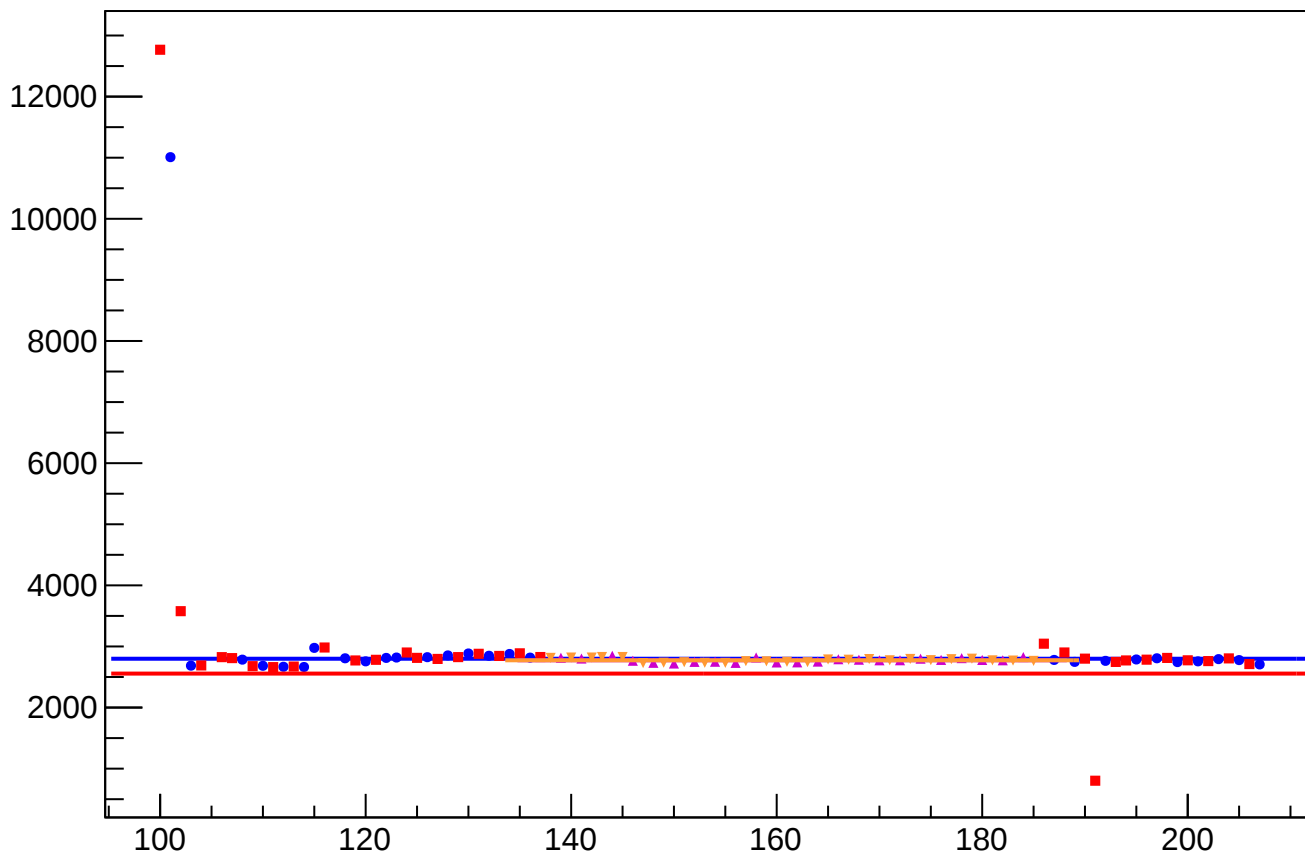
Right: 1998.996 ± 510.429 $\chi^2/\text{NDF}: 40.5/57$

In: 2330.847 ± 501.130 $\chi^2/\text{NDF}: 54.3/49$

Out: 2364.878 ± 470.578 $\chi^2/\text{NDF}: 57.3/55$

All: 2348.932 ± 343.041 $\chi^2/\text{NDF}: 111.6/105$

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2799.016+/-0.540 χ^2/NDF : 666605.5/26

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

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

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

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

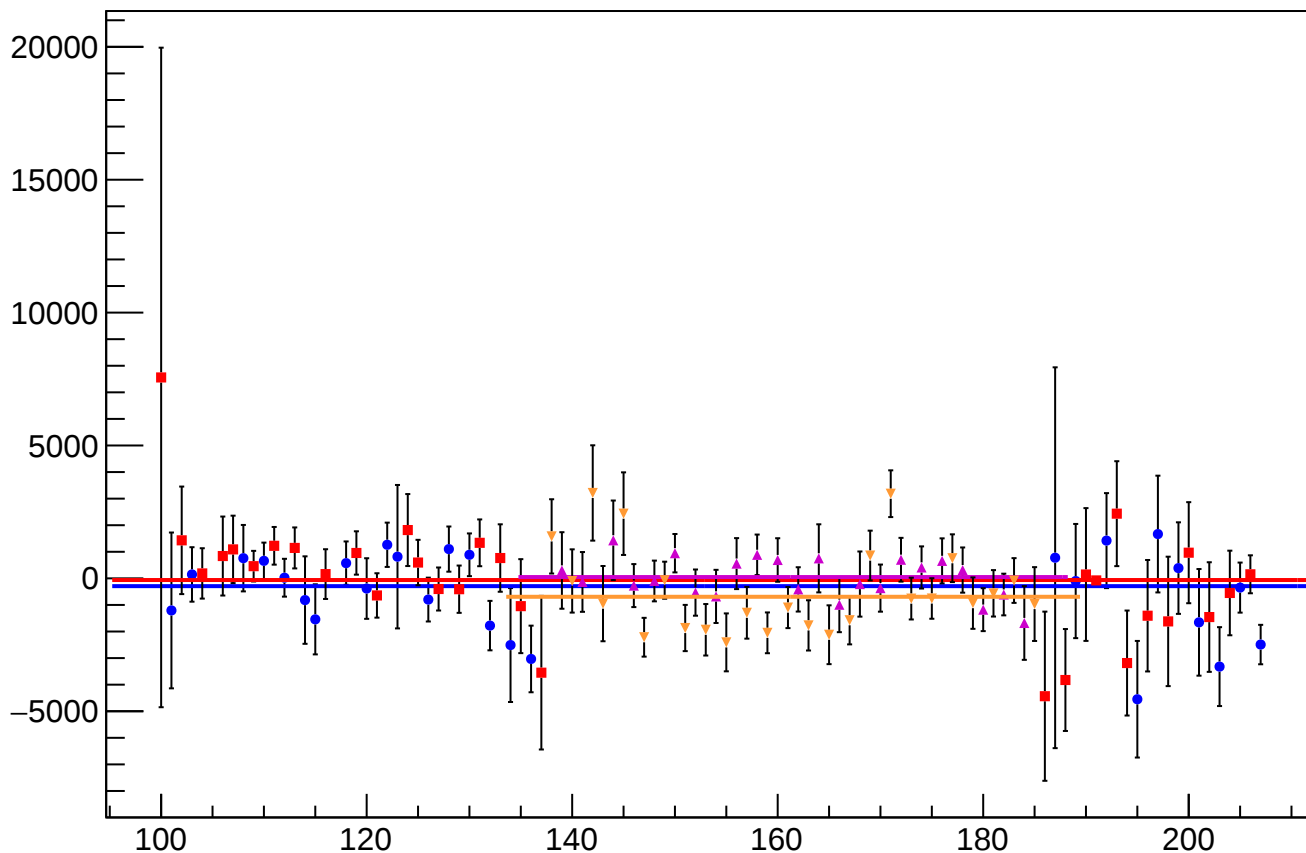
Right: 2664.706+/-0.361 χ^2/NDF : 2772792.8/57

In: 2784.812+/-0.354 χ^2/NDF : 672809.8/49

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

All: 2724.564+/-0.243 χ^2/NDF : 2832555.4/100

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -292.717 ± 213.400 $\chi^2/\text{NDF}: 41.6/26$

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

Right Out: -62.628 ± 37.823 $\chi^2/\text{NDF}: 30.2/30$

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

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

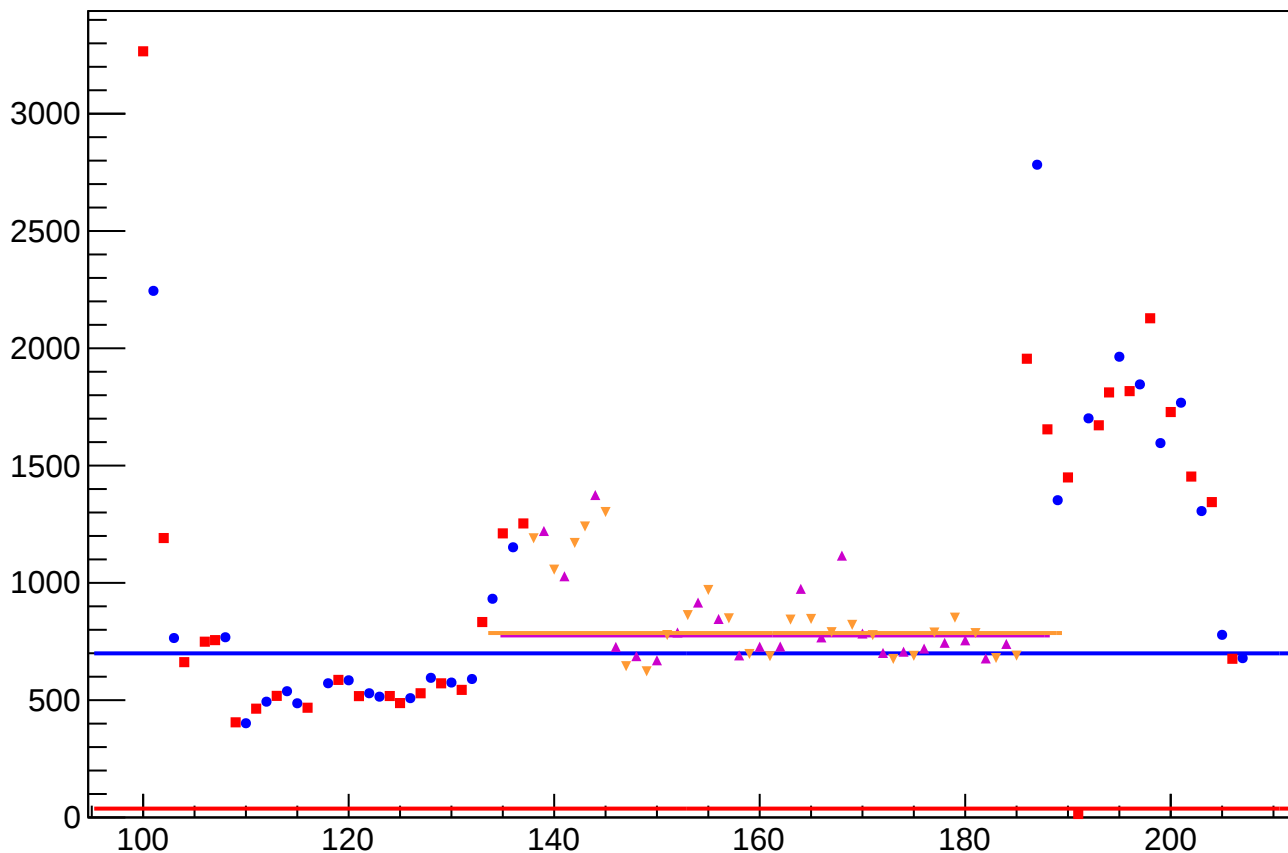
Right: -69.635 ± 37.242 $\chi^2/\text{NDF}: 72.9/57$

In: -101.247 ± 141.566 $\chi^2/\text{NDF}: 56.7/49$

Out: -87.319 ± 37.074 $\chi^2/\text{NDF}: 97.0/55$

All: -88.213 ± 35.865 $\chi^2/\text{NDF}: 153.7/105$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 699.531+/-0.151 χ^2/NDF : 5494254.9/26

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

Right Out: 37.734+/-0.027 χ^2/NDF : 26872225.3/30

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

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

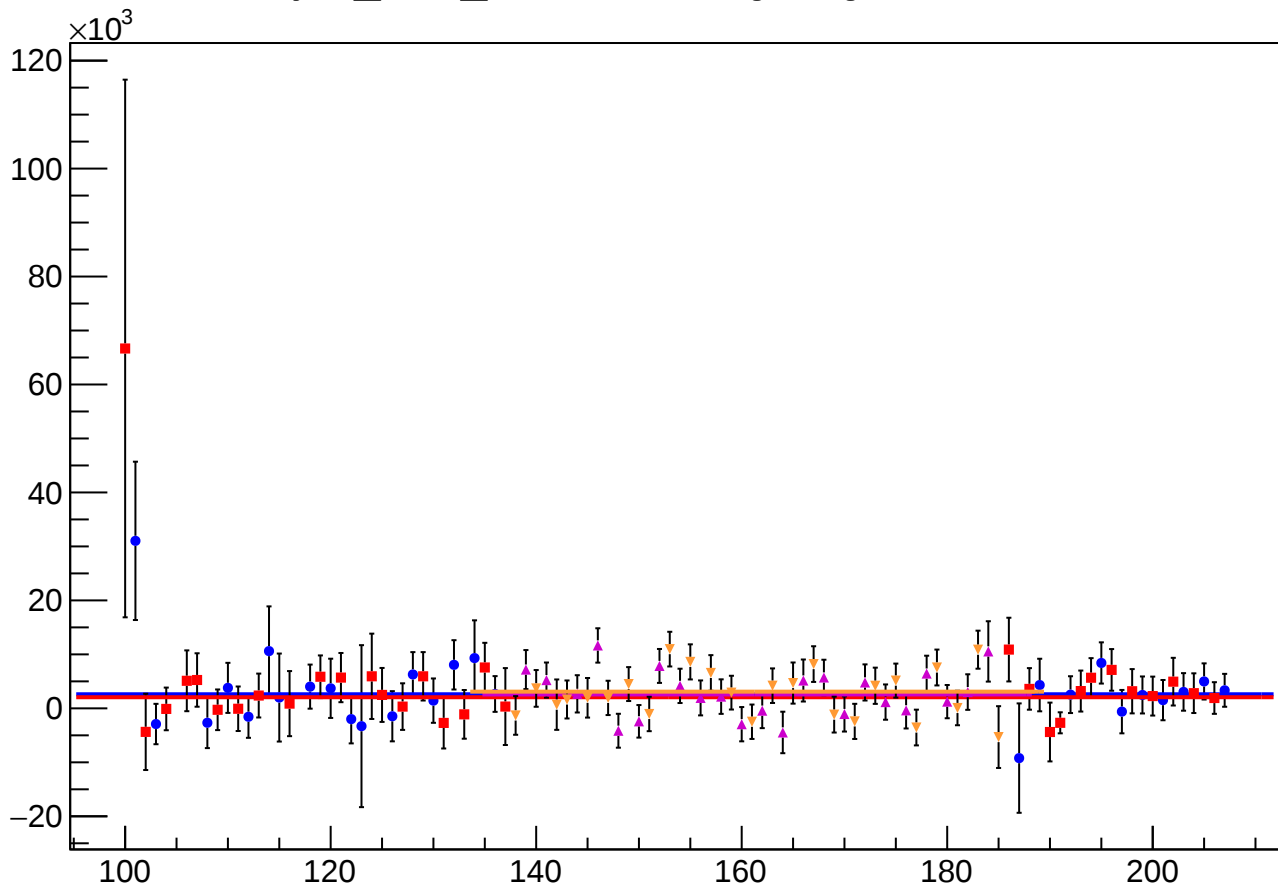
Right: 57.890+/-0.026 χ^2/NDF : 51015589.5/57

In: 742.308+/-0.100 χ^2/NDF : 6694553.3/49

Out: 67.059+/-0.026 χ^2/NDF : 58806411.6/55

All: 110.399+/-0.025 χ^2/NDF : 108083179.3/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2609.883 $\pm$ 833.688 χ^2 /NDF: 19.8/26

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

Right Out: 2057.571 $\pm$ 747.306 χ^2 /NDF: 23.0/30

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

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

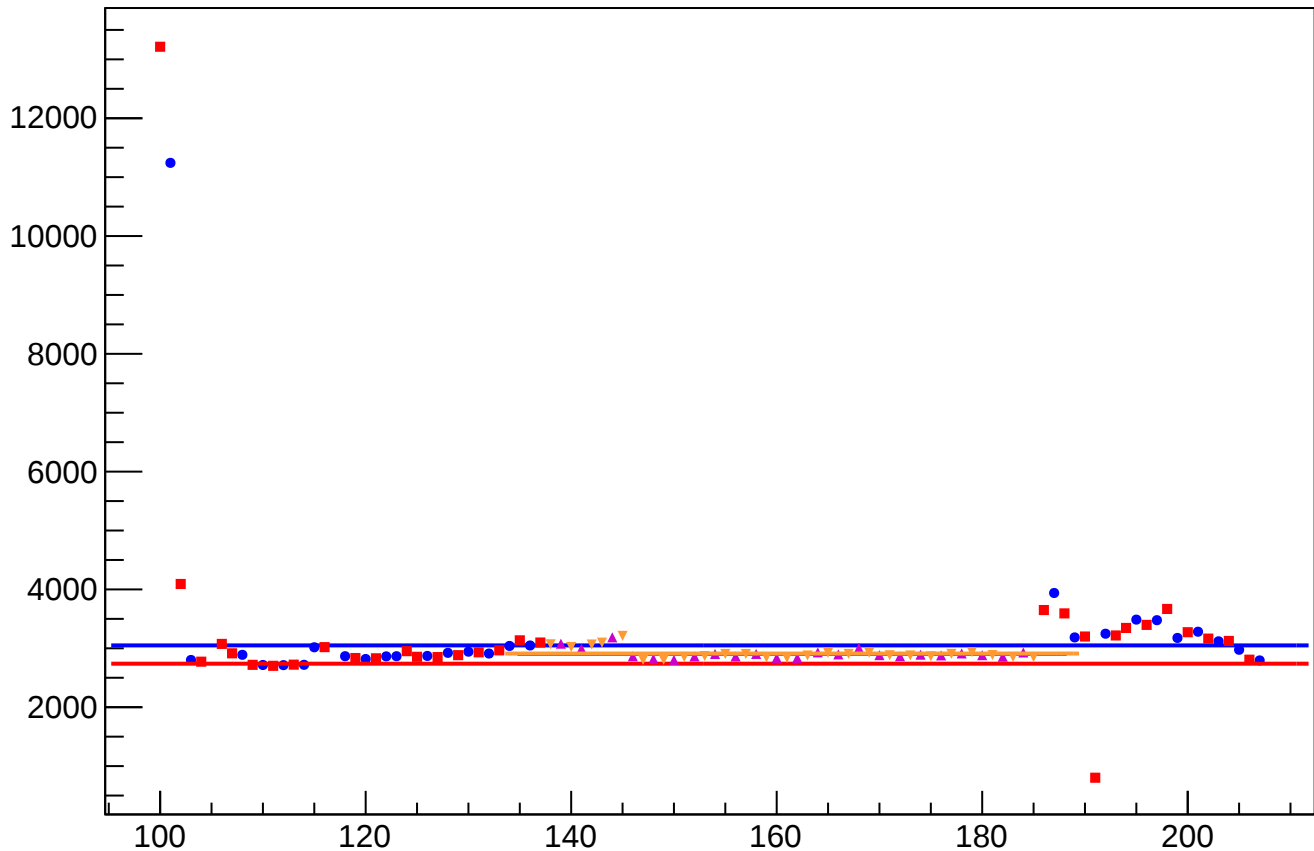
Right: 2303.639 $\pm$ 556.467 χ^2 /NDF: 43.0/57

In: 2588.252 $\pm$ 534.192 χ^2 /NDF:55.5/49

Out: 2626.129 $\pm$ 502.344 χ^2 /NDF:62.7/55

All: 2608.353 $\pm$ 365.952 χ^2 /NDF: 118.2/105

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3049.367+/-0.590 χ^2/NDF : 781860.5/26

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

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

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

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

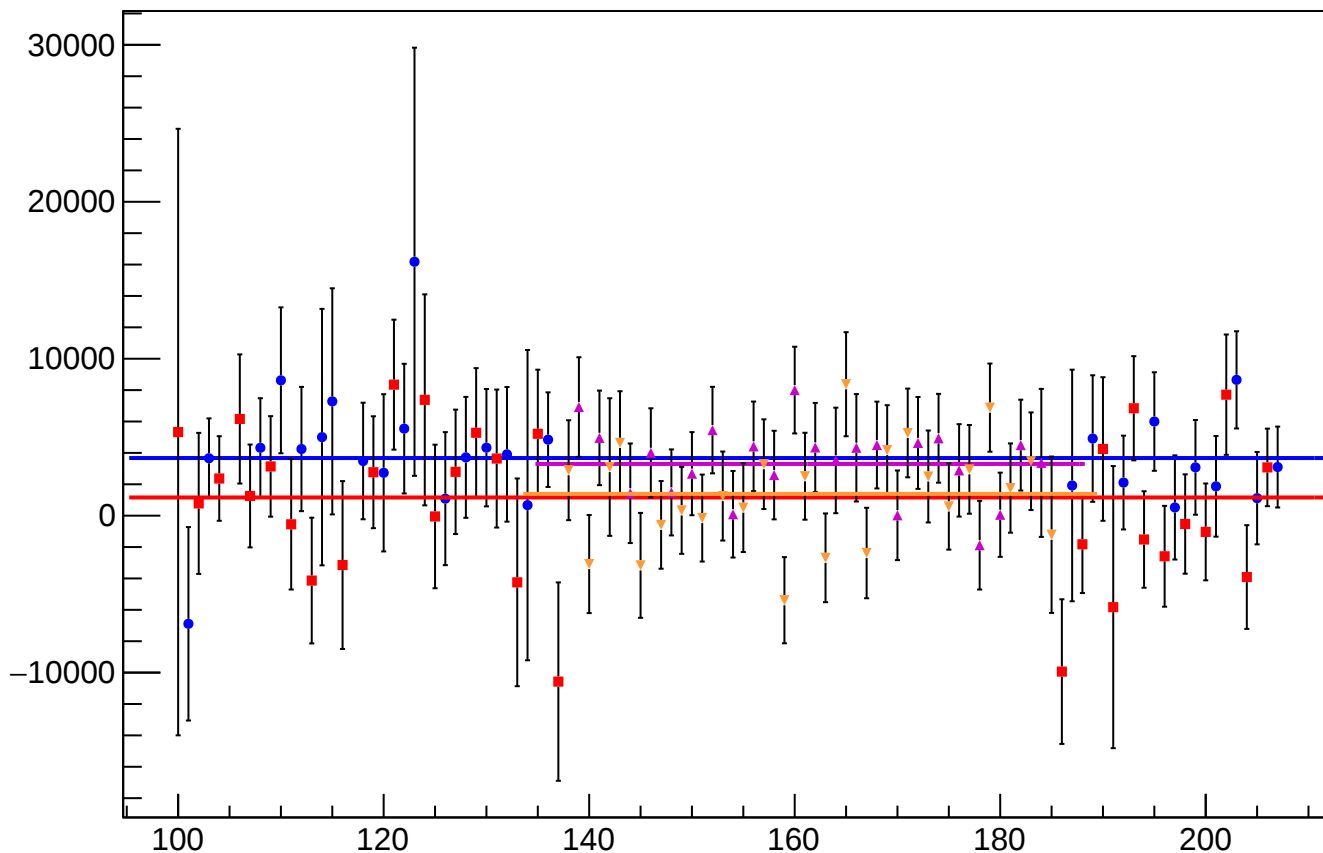
Right: 2877.206+/-0.393 χ^2/NDF : 3617692.0/57

In: 2963.336+/-0.378 χ^2/NDF : 846831.6/49

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

All: 2894.351+/-0.259 χ^2/NDF : 3686649.6/100

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3672.391+/-719.195 χ^2/NDF : 11.8/26

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

Right Out: 1159.311+/-687.409 χ^2/NDF : 34.9/30

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

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

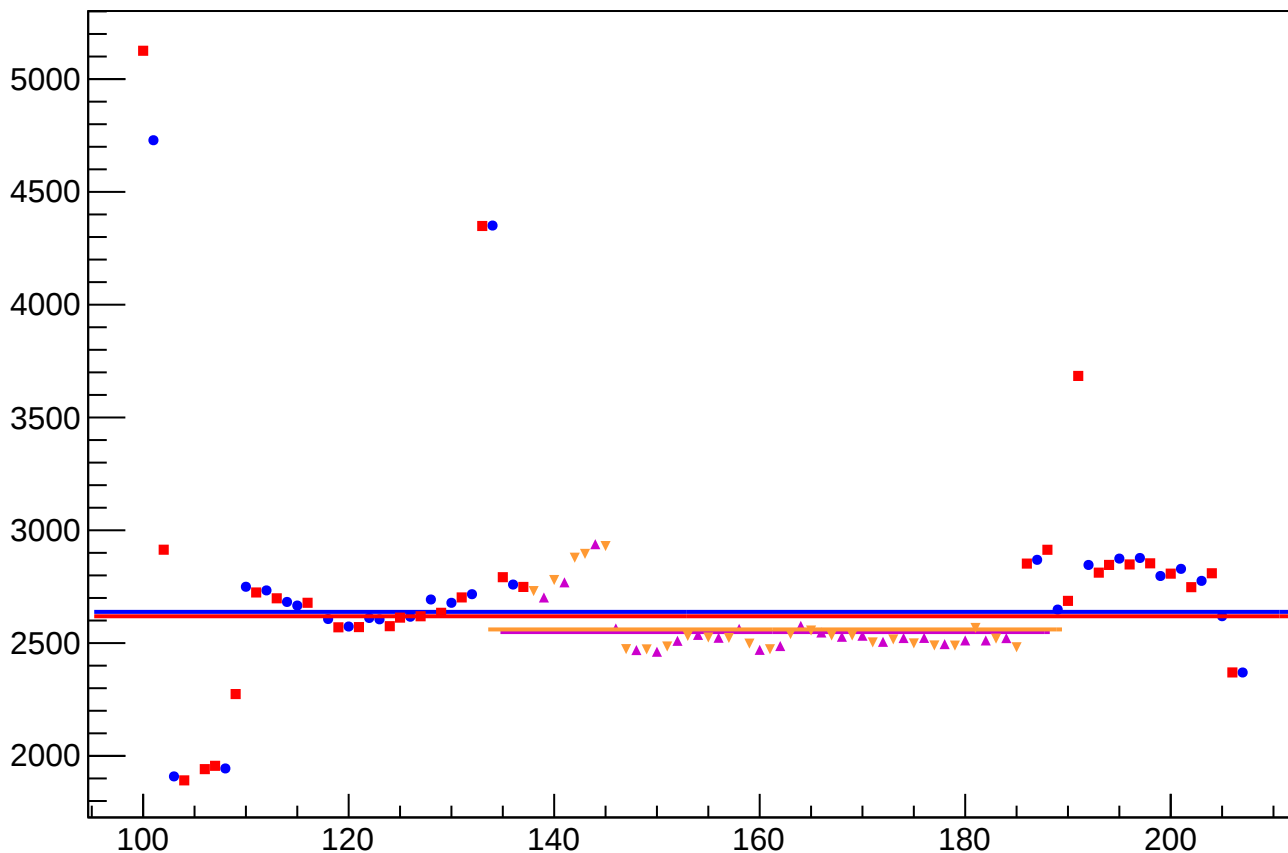
Right: 2359.091+/-496.929 χ^2/NDF : 53.1/57

In: 3453.111+/-465.199 χ^2/NDF : 26.8/49

Out: 1291.062+/-450.534 χ^2/NDF : 64.1/55

All: 2337.471+/-323.636 χ^2/NDF : 102.1/105

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2638.381+/-0.509 χ^2/NDF : 631193.1/26

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

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

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

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

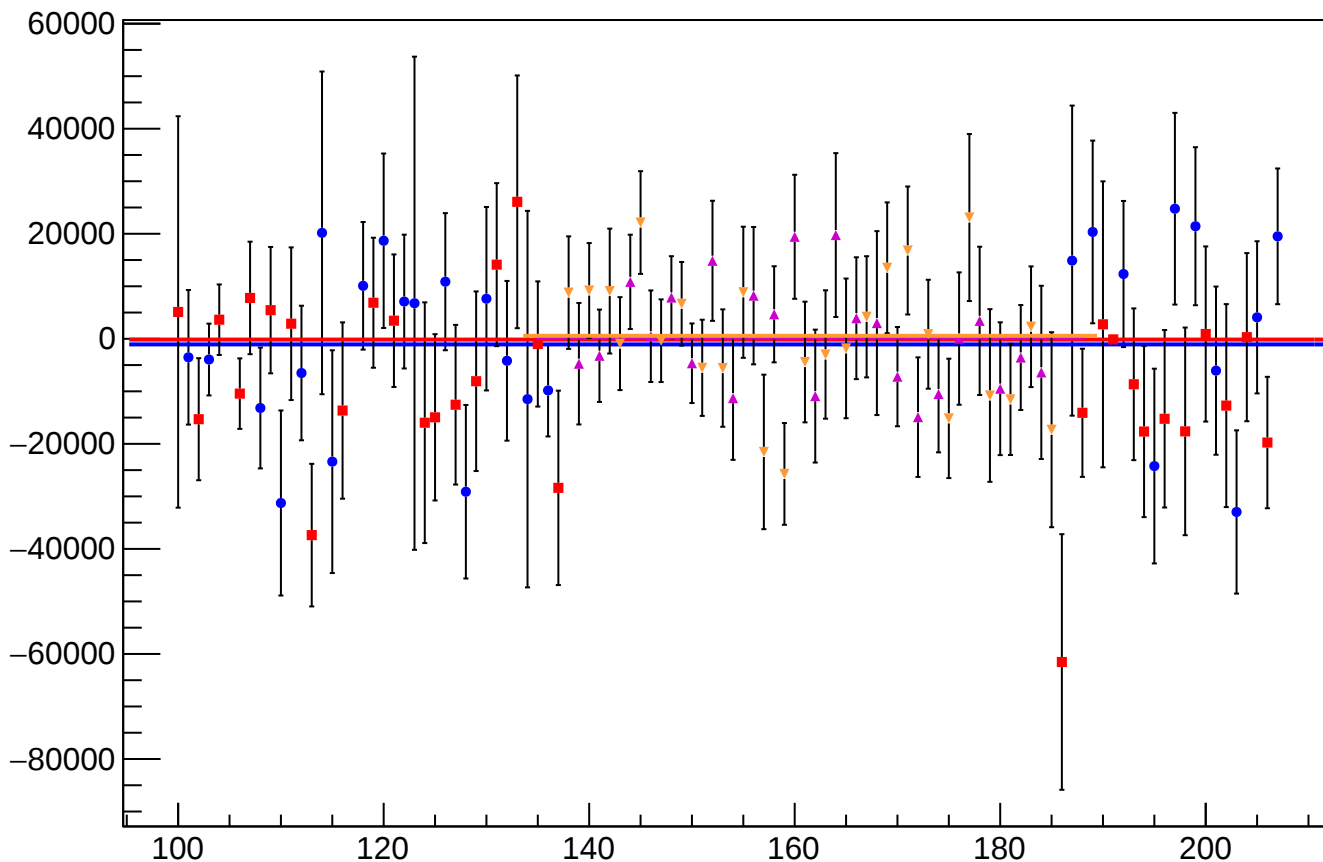
Right: 2628.186+/-0.351 χ^2/NDF : 1251476.2/57

In: 2586.320+/-0.329 χ^2/NDF : 704477.7/49

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

All: 2585.945+/-0.229 χ^2/NDF : 1418984.0/100

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -1066.047 $\pm$ 2728.183 χ^2 /NDF: 29.3/26

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

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

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

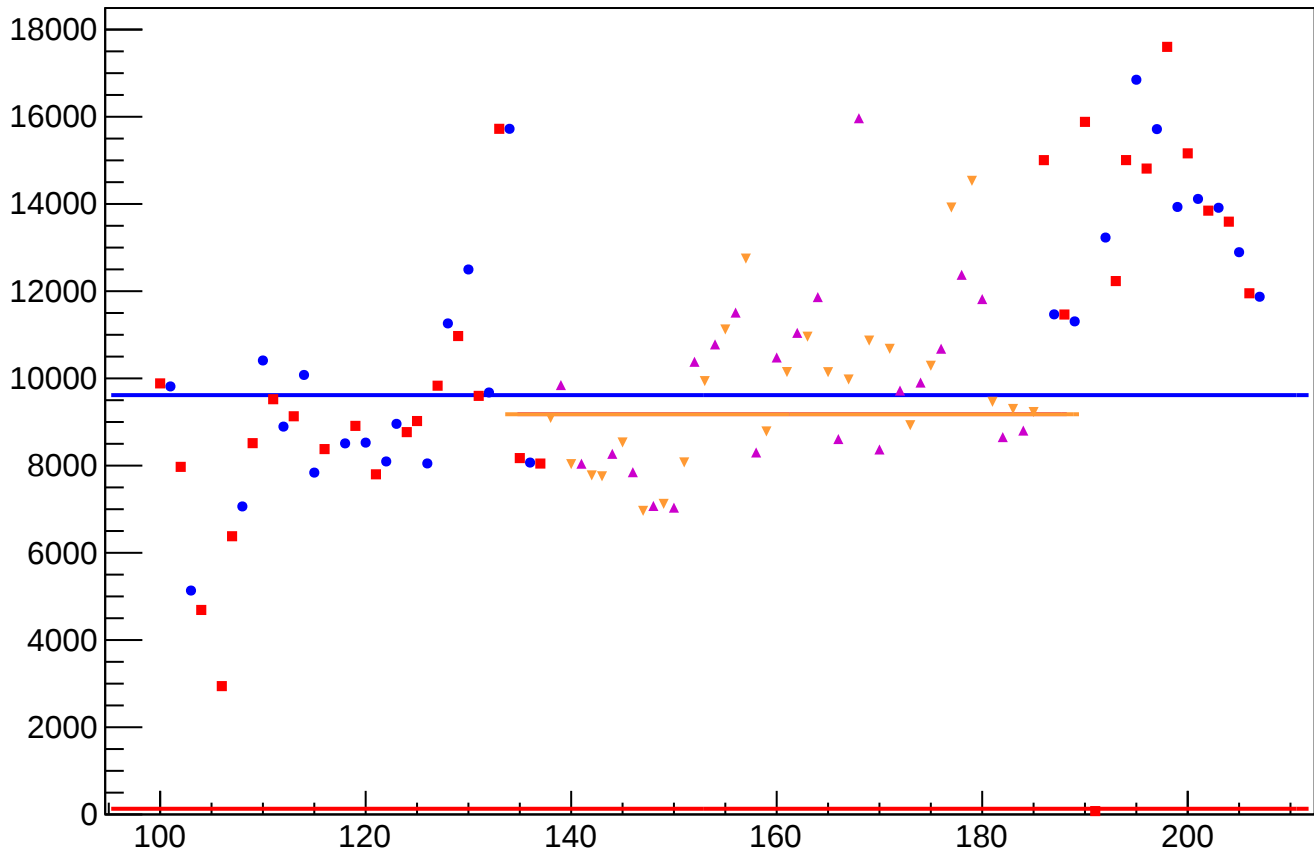
Right: -150.441 $\pm$ 194.447 χ^2 /NDF: 63.5/57

In: -265.757 $\pm$ 1732.529 χ^2 /NDF:45.2/49

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

All: -141.650 $\pm$ 192.963 χ^2 /NDF: 107.6/105

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9616.460+/-1.929

χ^2/NDF : 2590030.4/26

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 130.495+/-0.138

χ^2/NDF : 28579608.8/30

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 178.683+/-0.137

χ^2/NDF : 55226231.2/57

In: 9356.767+/-1.225

χ^2/NDF : 3856869.6/49

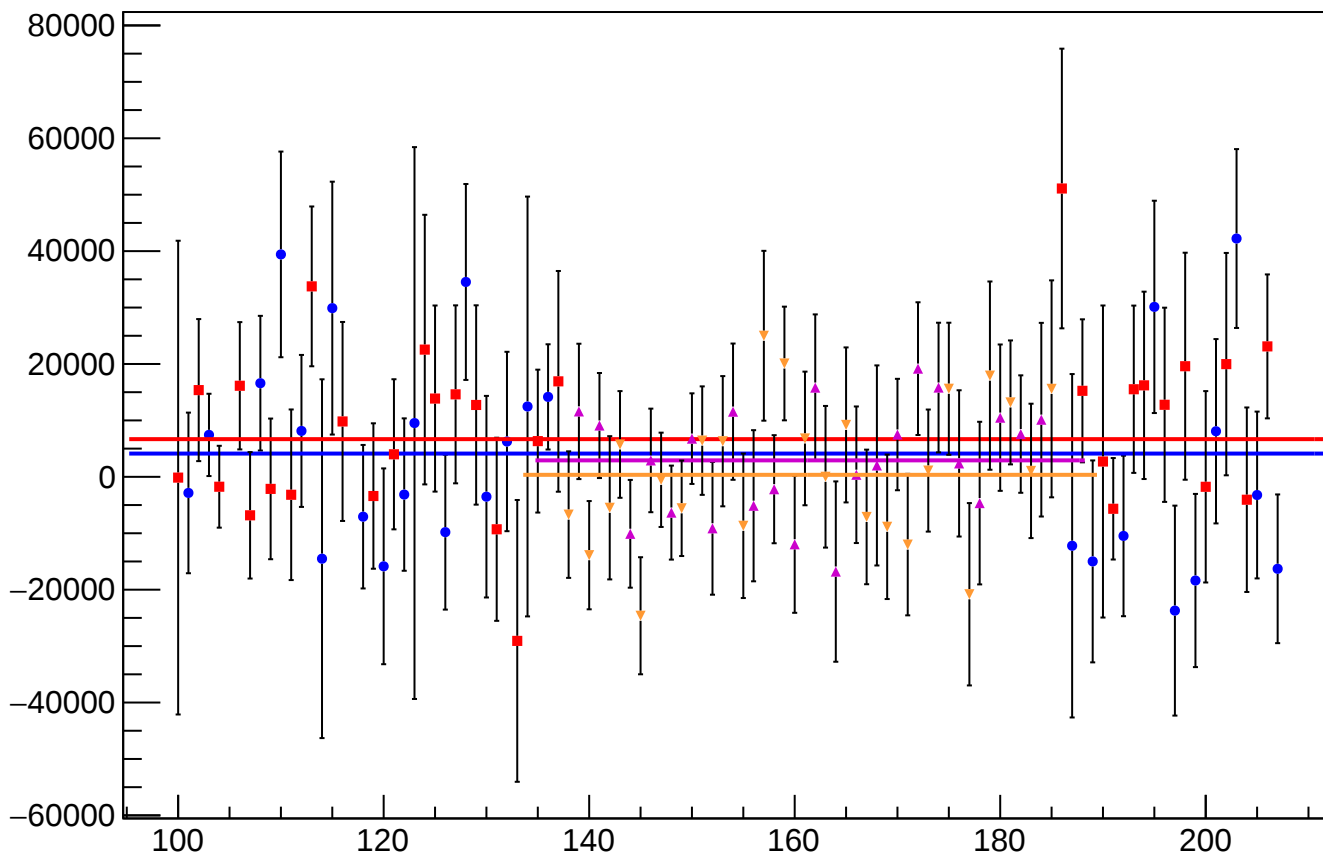
Out: 201.982+/-0.137

χ^2/NDF : 63793302.6/55

All: 315.545+/-0.136

χ^2/NDF : 122800026.6/57

asym_atr2_mean vs Slug, Sign Corrected



Right In: 4123.020 $\pm$ 2853.900 χ^2/NDF : 32.2/26

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

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

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

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

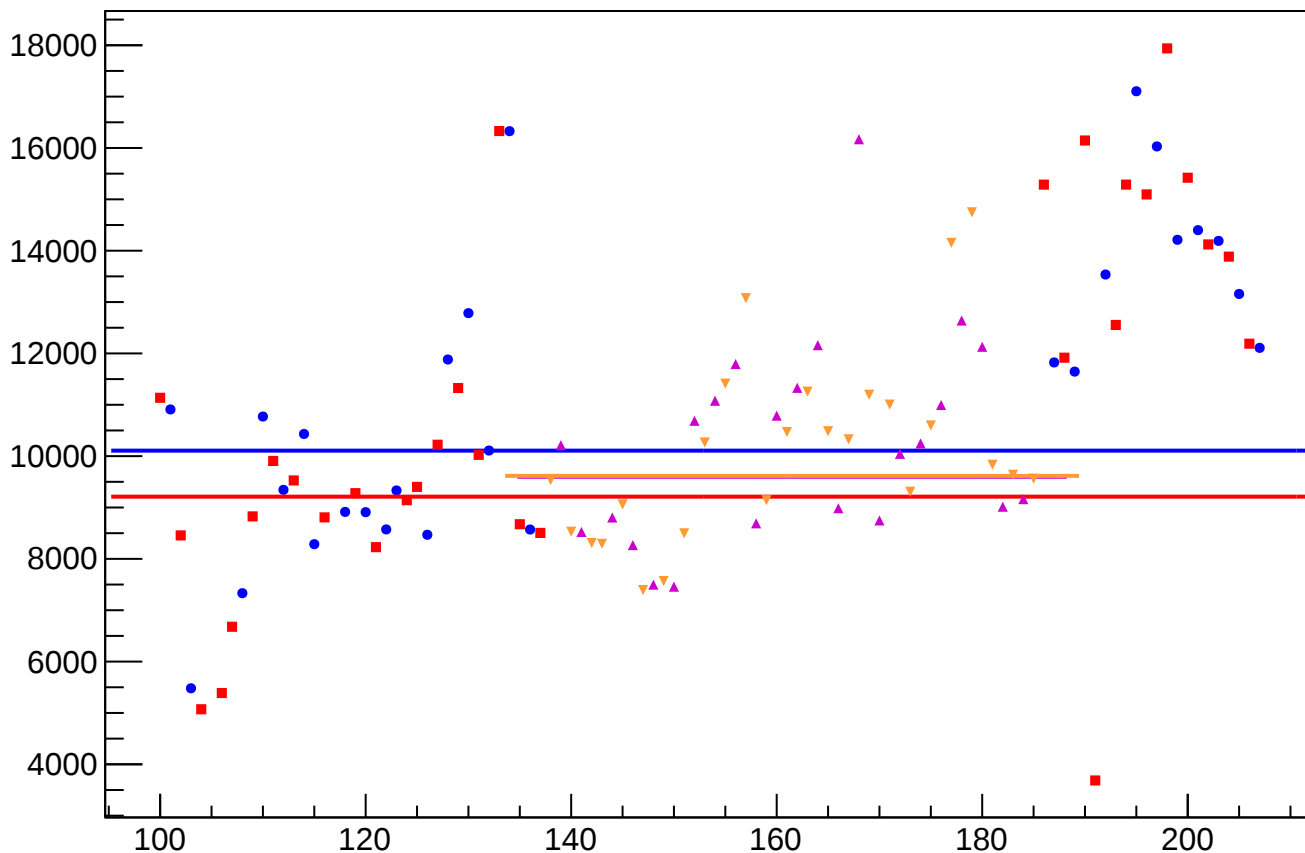
Right: 5532.184 $\pm$ 1911.855 χ^2/NDF : 55.8/57

In: 3402.269 $\pm$ 1808.796 χ^2/NDF : 47.3/49

Out: 3136.951 $\pm$ 1707.747 χ^2/NDF : 52.8/55

All: 3261.992 $\pm$ 1241.747 χ^2/NDF : 100.0/105

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10107.359+/-2.018 χ^2/NDF : 2362297.5/26

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

Right Out: 9211.211+/-1.821 χ^2/NDF : 3962431.9/30

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

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

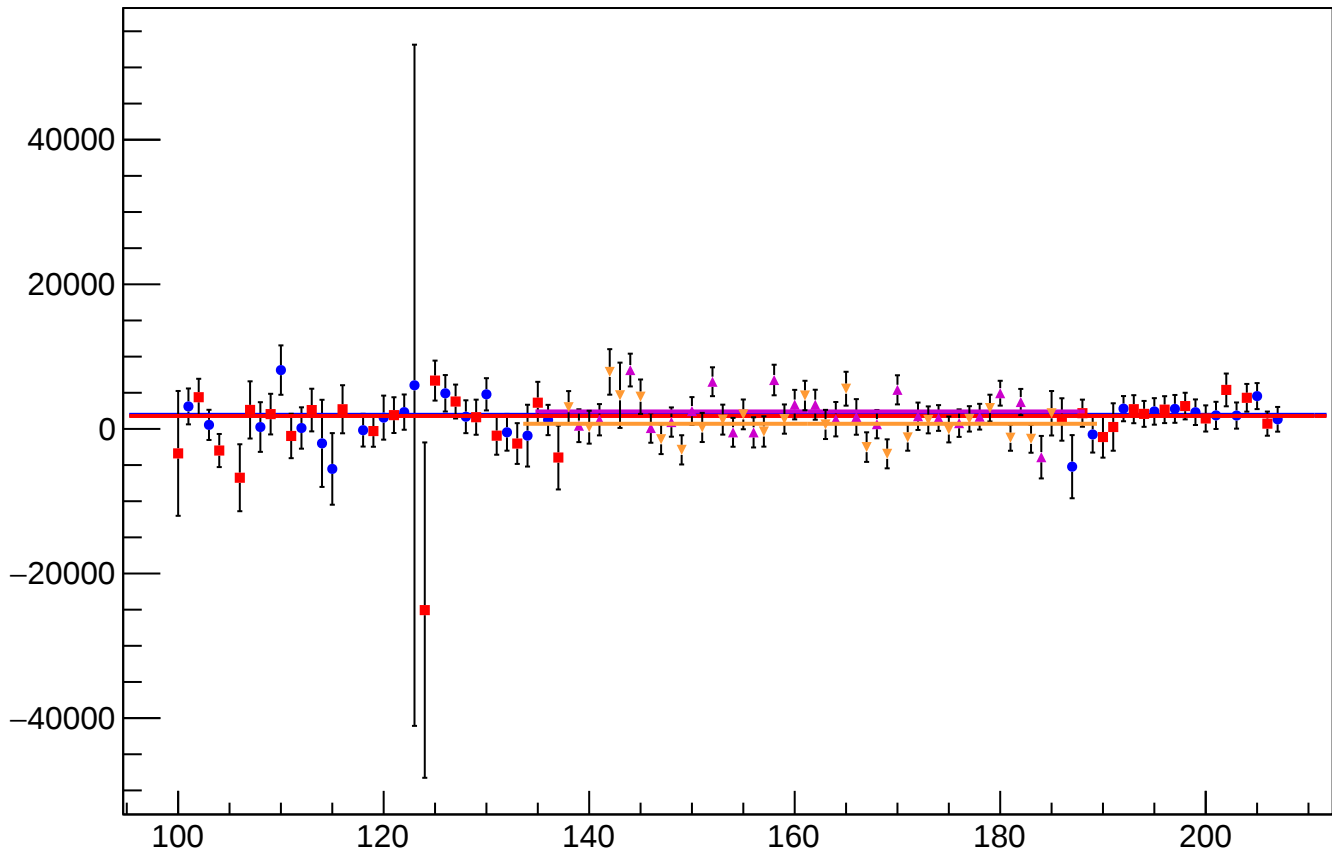
Right: 9613.369+/-1.352 χ^2/NDF : 6433434.7/57

In: 9802.927+/-1.279 χ^2/NDF : 3482506.8/49

Out: 9438.102+/-1.208 χ^2/NDF : 5001816.8/55

All: 9610.037+/-0.878 χ^2/NDF : 8527341.2/10

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1950.254+/-452.654 χ^2/NDF : 19.4/26

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

Right Out: 1789.381+/-442.167 χ^2/NDF : 28.3/30

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

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

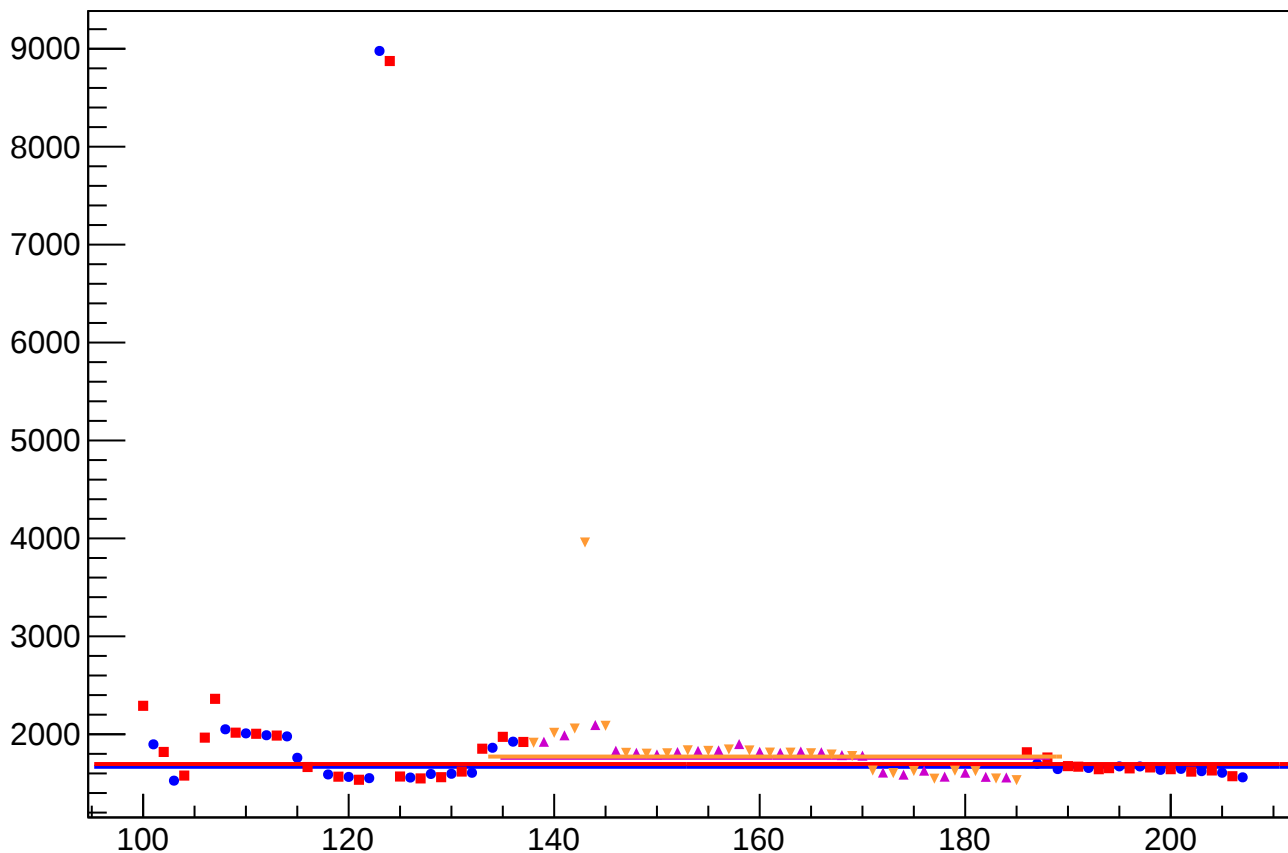
Right: 1867.932+/-316.302 χ^2/NDF : 47.8/57

In: 2197.956+/-309.242 χ^2/NDF : 53.9/49

Out: 1218.440+/-303.516 χ^2/NDF : 66.3/55

All: 1699.045+/-216.614 χ^2/NDF : 125.3/105

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1667.889+/-0.320 χ^2/NDF : 215682.1/26

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1695.984+/-0.312 χ^2/NDF : 436450.2/30

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

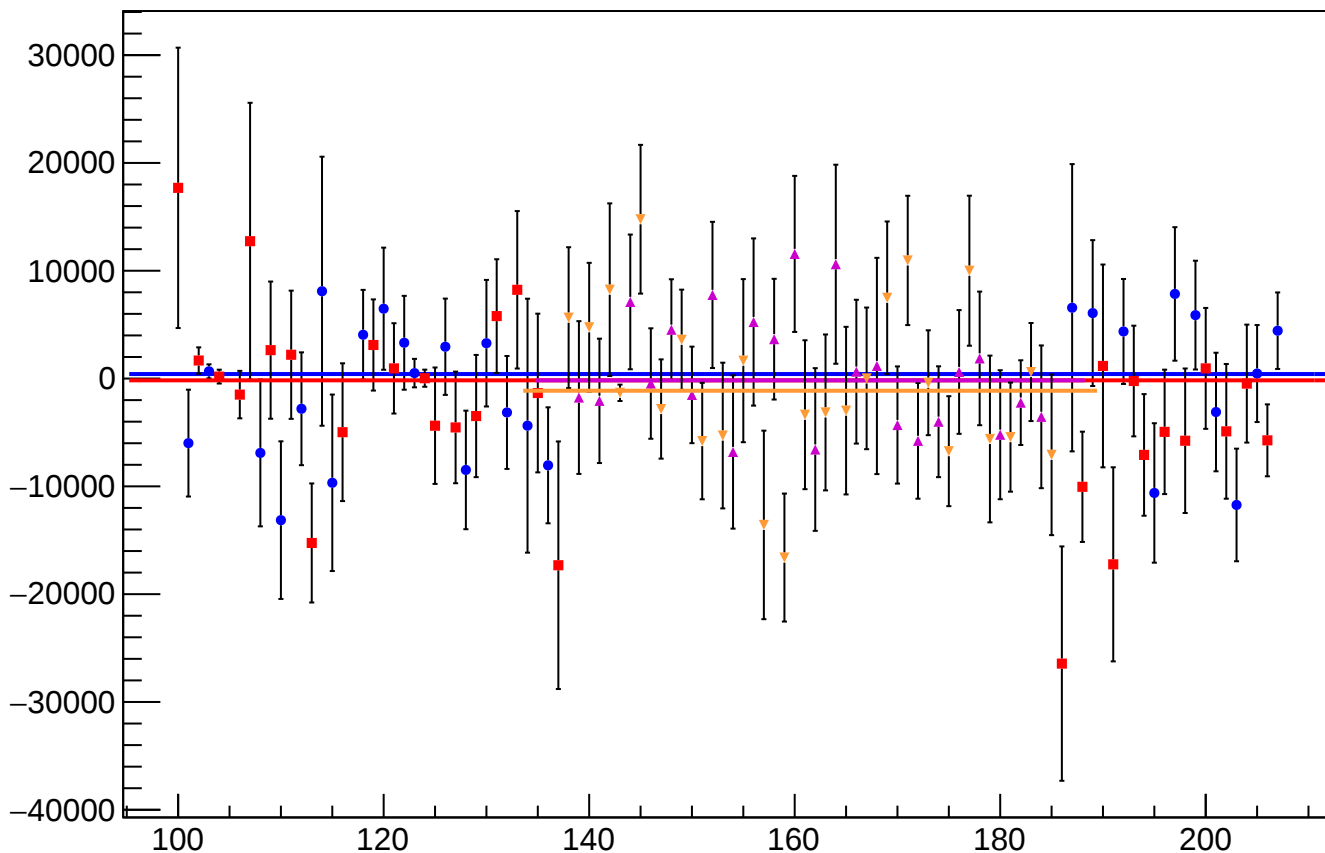
Right: 1682.293+/-0.223 χ^2/NDF : 656082.5/57

In: 1716.796+/-0.219 χ^2/NDF : 474354.5/49

Out: 1736.133+/-0.214 χ^2/NDF : 1170283.0/55

All: 1726.654+/-0.153 χ^2/NDF : 1648624.4/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 417.675+/-514.453 χ^2/NDF : 31.5/26

Left Out: -1129.807+/-647.600 χ^2/NDF :31.5/24

Right Out: -165.293+/-419.231 χ^2/NDF : 40.9/30

Left In: -168.182+/-1232.411 χ^2/NDF :14.2/22

Left: -921.734+/-573.272 χ^2/NDF : 46.1/47

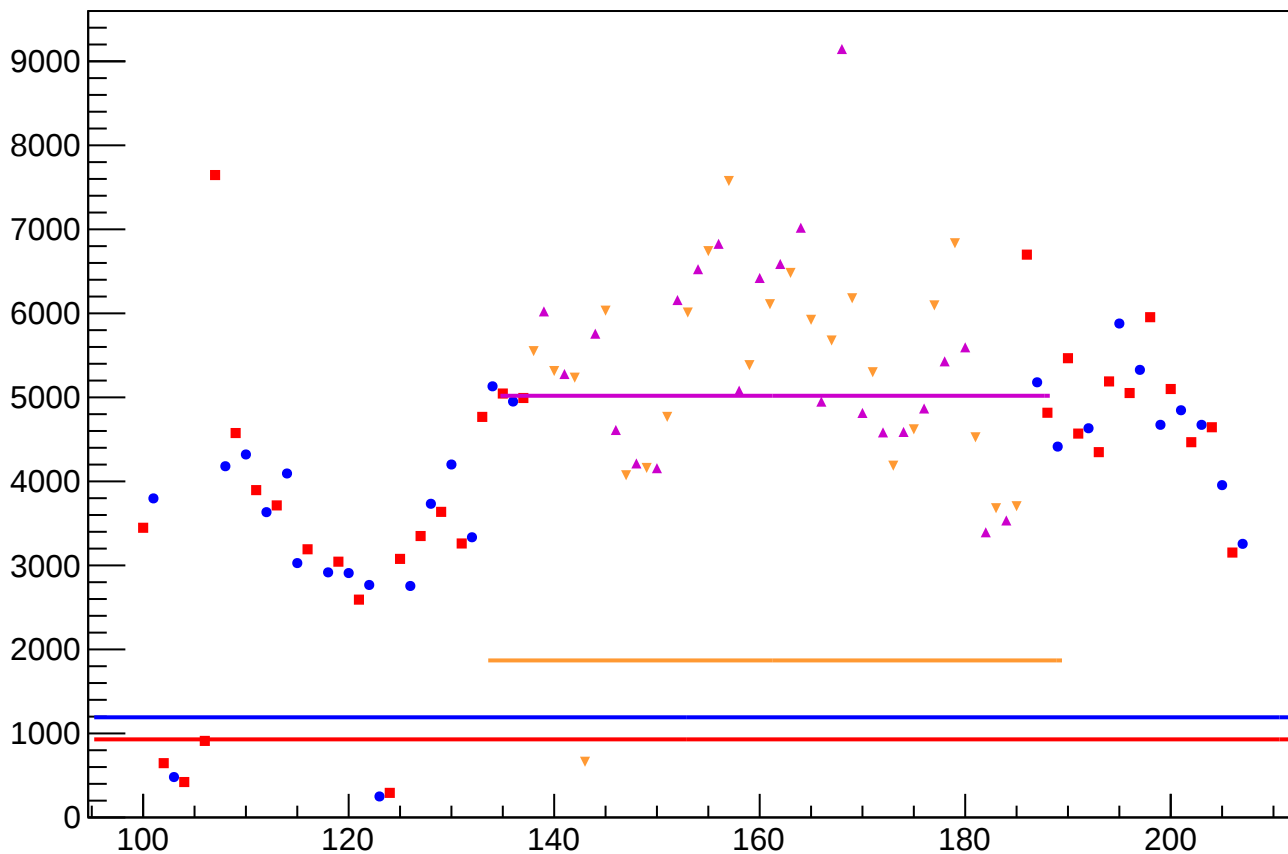
Right: 67.349+/-324.988 χ^2/NDF : 73.2/57

In: 330.737+/-474.750 χ^2/NDF :45.9/49

Out: -450.130+/-351.926 χ^2/NDF :74.0/55

All: -173.209+/-282.718 χ^2/NDF : 121.6/105

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1192.080+/-0.364

χ^2/NDF : 16620165.9/26

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 1034.211+/-0.230

χ^2/NDF : 36207408.0/57

Right Out: 929.374+/-0.296

χ^2/NDF : 19273837.1/30

In: 1759.991+/-0.336

χ^2/NDF : 34613306.4/49

Out: 1206.856+/-0.249

χ^2/NDF : 42093168.2/55

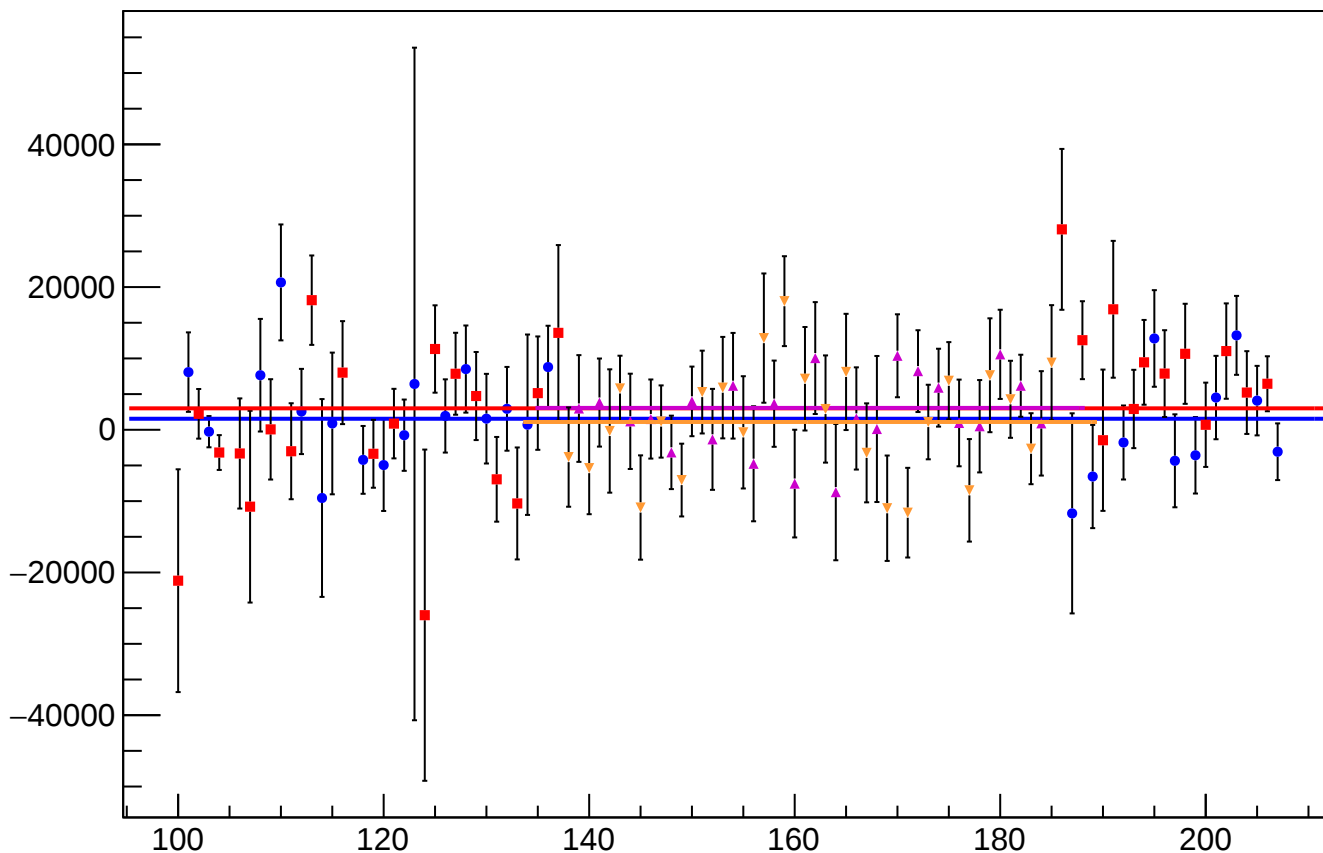
Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1403.016+/-0.200

χ^2/NDF : 78458614.3/131

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1546.078 $\pm$ 1060.694 χ^2 /NDF: 27.9/26

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 3004.996 $\pm$ 1041.476 χ^2 /NDF: 46.5/30

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

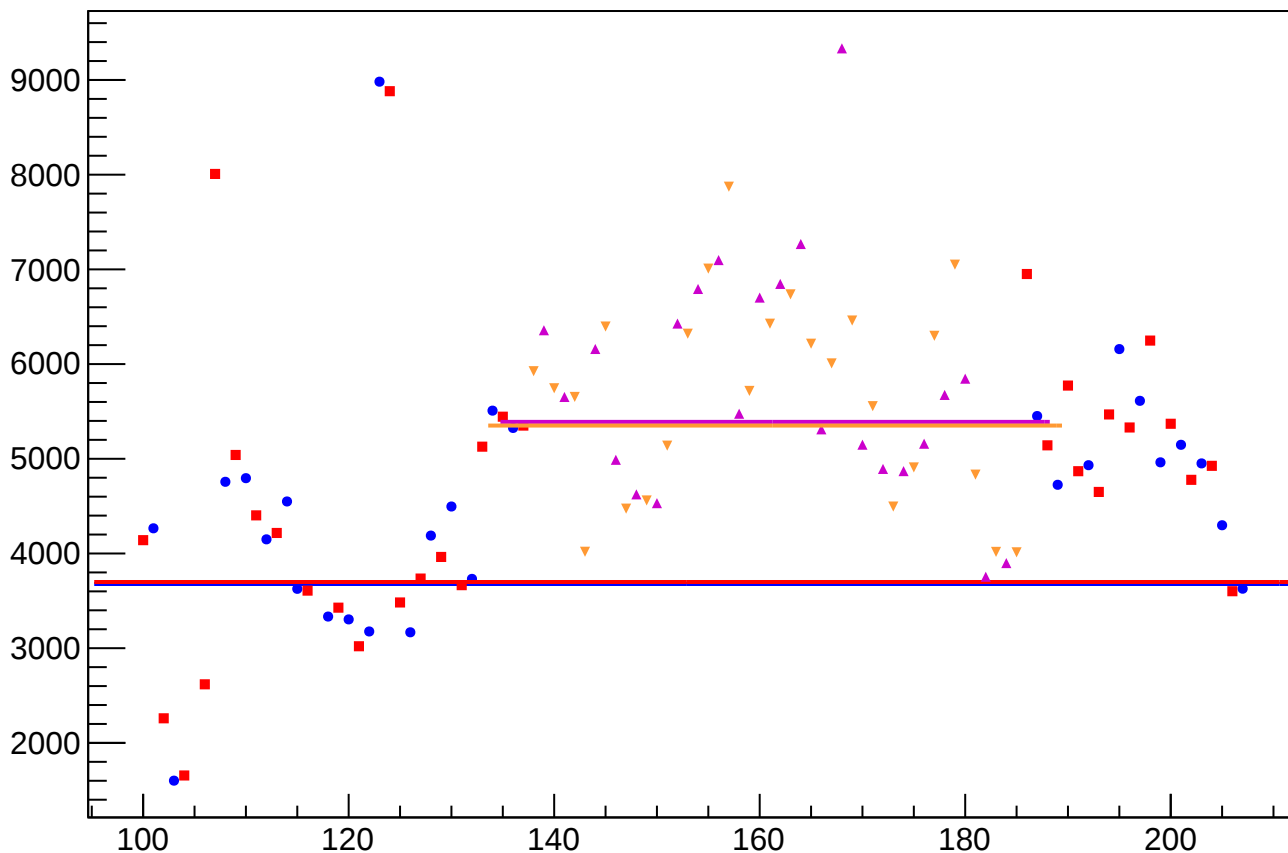
Right: 2288.873 $\pm$ 743.136 χ^2 /NDF: 75.3/57

In: 2142.952 $\pm$ 826.377 χ^2 /NDF:41.3/49

Out: 2238.975 $\pm$ 806.108 χ^2 /NDF:79.8/55

All: 2192.155 $\pm$ 577.037 χ^2 /NDF: 121.1/105

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3677.861 $\pm$ 0.750

χ^2 /NDF: 3269030.2/26

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

Right Out: 3698.990 $\pm$ 0.729

χ^2 /NDF: 3863358.4/30

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: 3688.720 $\pm$ 0.523

χ^2 /NDF: 7132796.5/57

In: 4350.649 $\pm$ 0.584

χ^2 /NDF: 6626284.0/49

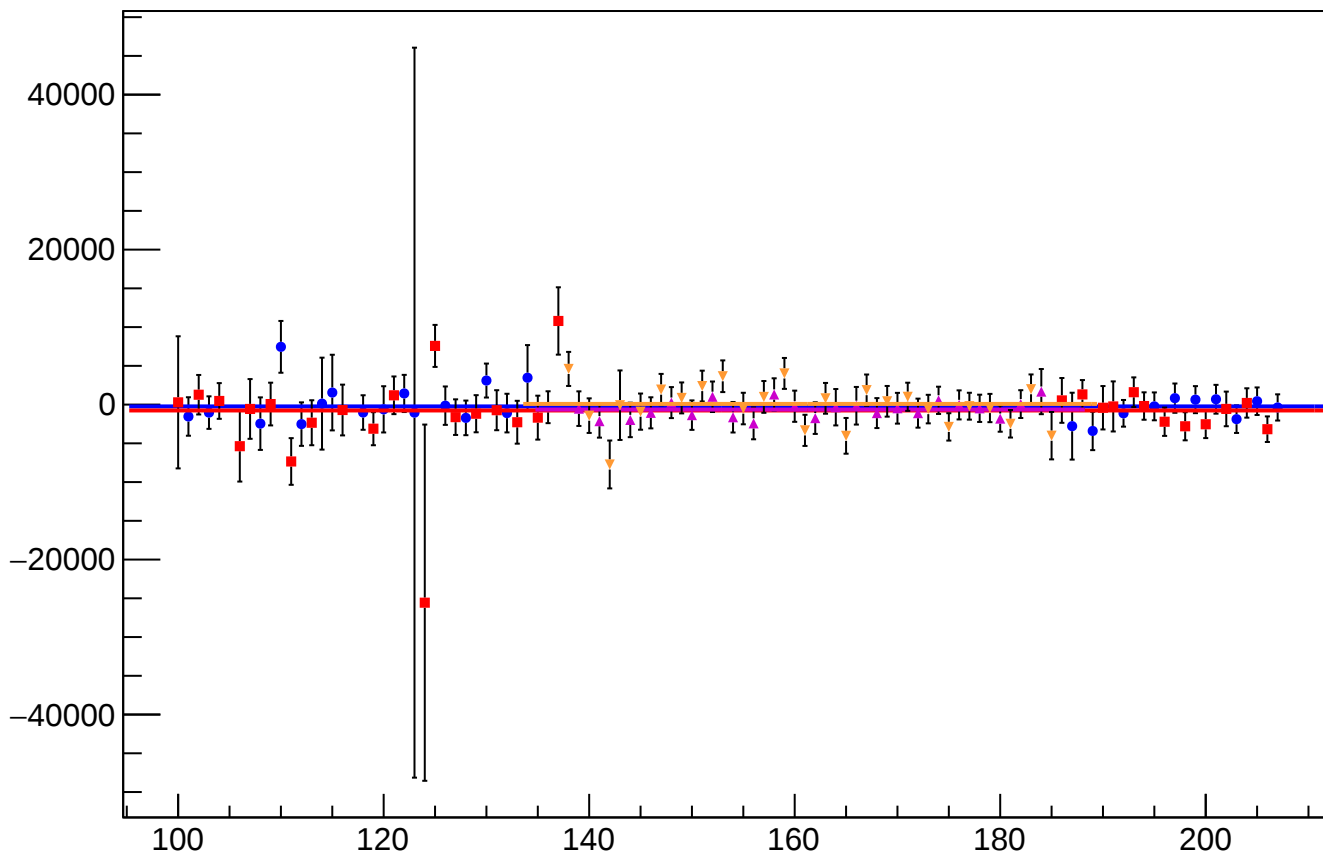
Out: 4353.615 $\pm$ 0.567

χ^2 /NDF: 7137378.1/55

All: 4352.178 $\pm$ 0.407

χ^2 /NDF: 13763675.4/131

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -235.133 ± 446.371 χ^2/NDF : 15.3/26

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -756.951 ± 435.842 χ^2/NDF : 35.7/30

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

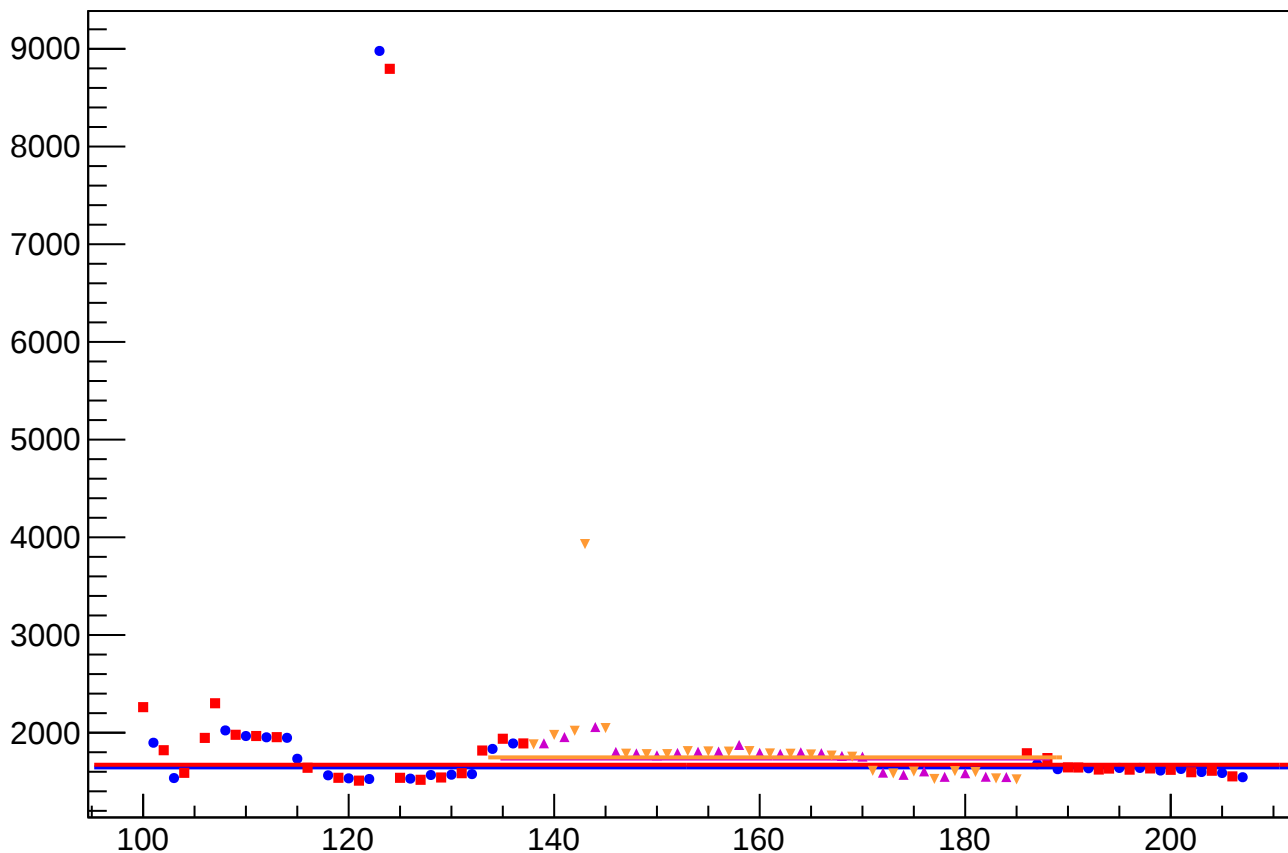
Right: -502.269 ± 311.843 χ^2/NDF : 51.6/57

In: -451.138 ± 304.970 χ^2/NDF : 21.9/49

Out: -311.197 ± 299.222 χ^2/NDF : 73.7/55

All: -379.836 ± 213.585 χ^2/NDF : 95.7/105

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1644.815 $\pm$ 0.316 χ^2 /NDF: 212929.9/26

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1671.992 $\pm$ 0.308 χ^2 /NDF: 432082.3/30

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

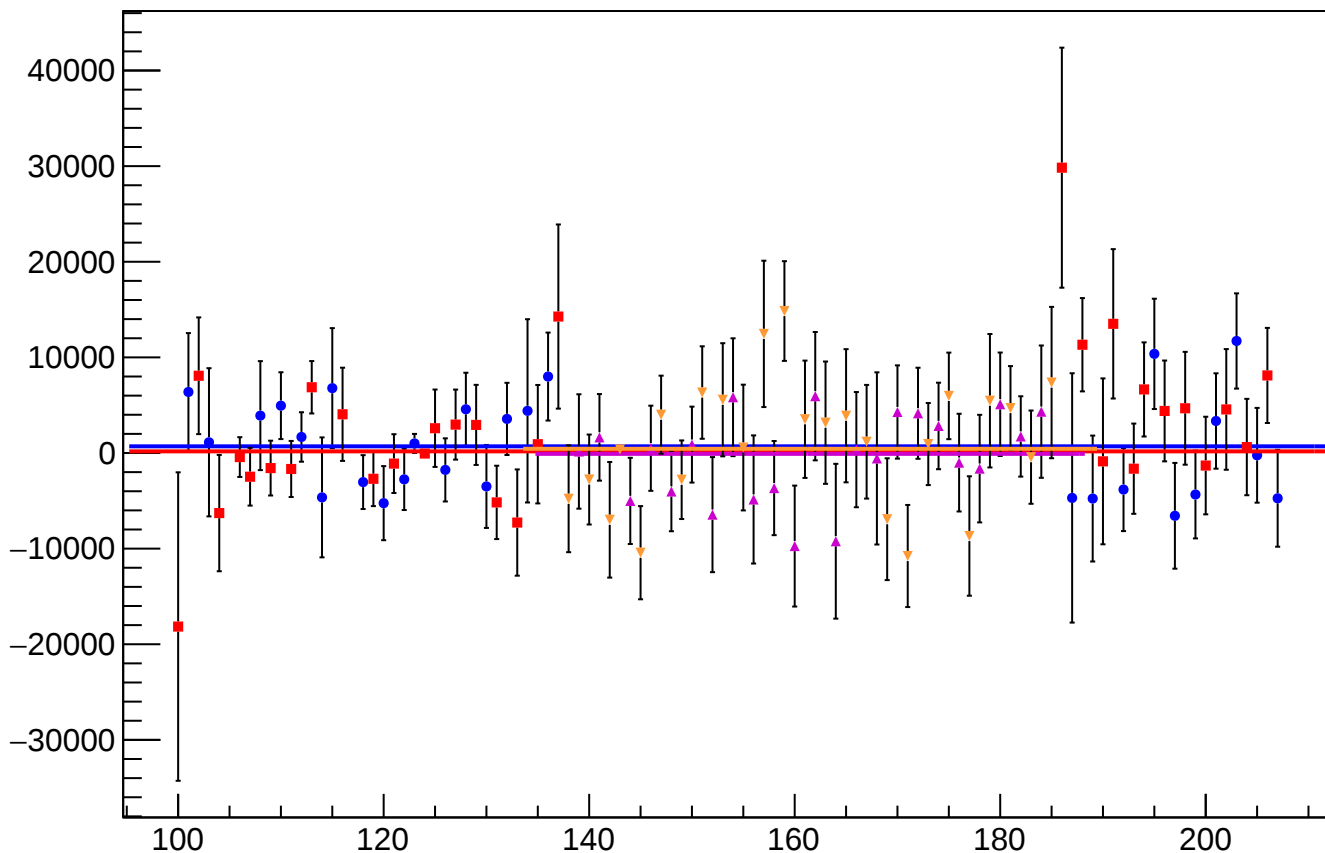
Right: 1658.753 $\pm$ 0.220 χ^2 /NDF: 648814.5/57

In: 1693.191 $\pm$ 0.216 χ^2 /NDF: 463751.7/49

Out: 1711.744 $\pm$ 0.211 χ^2 /NDF: 1161922.3/55

All: 1702.652 $\pm$ 0.151 χ^2 /NDF: 1629448.9/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 697.291+/-651.782 χ^2/NDF : 29.6/26

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 172.181+/-349.107 χ^2/NDF : 41.1/30

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

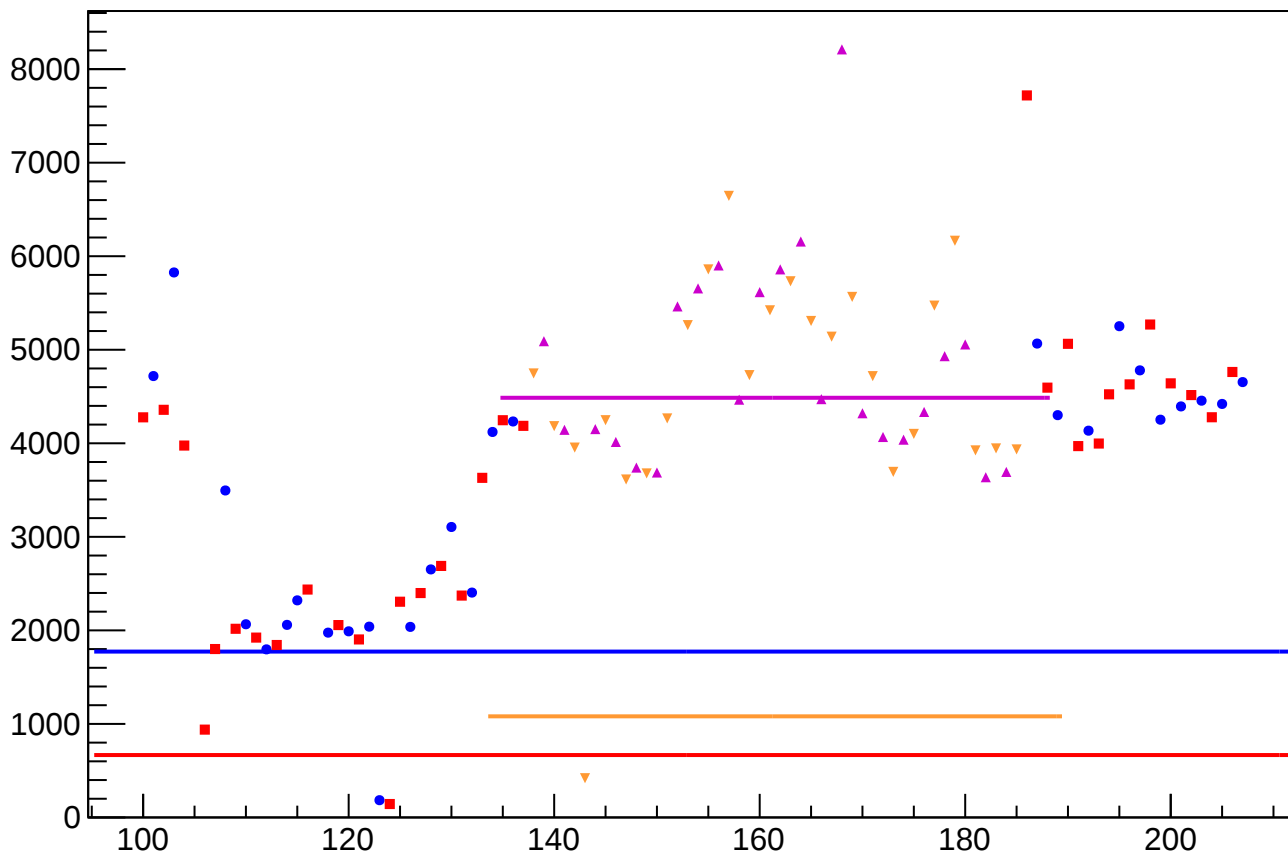
Right: 289.244+/-307.743 χ^2/NDF : 71.2/57

In: 491.671+/-560.051 χ^2/NDF :43.5/49

Out: 276.393+/-273.562 χ^2/NDF :75.2/55

All: 317.862+/-245.805 χ^2/NDF : 118.8/105

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1773.236 $\pm$ 0.461

χ^2 /NDF: 12691180.2/26

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right Out: 667.194 $\pm$ 0.247

χ^2 /NDF: 22374360.9/30

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Right: 913.765 $\pm$ 0.218

χ^2 /NDF: 39540898.0/57

In: 2483.237 $\pm$ 0.396

χ^2 /NDF: 22942348.6/49

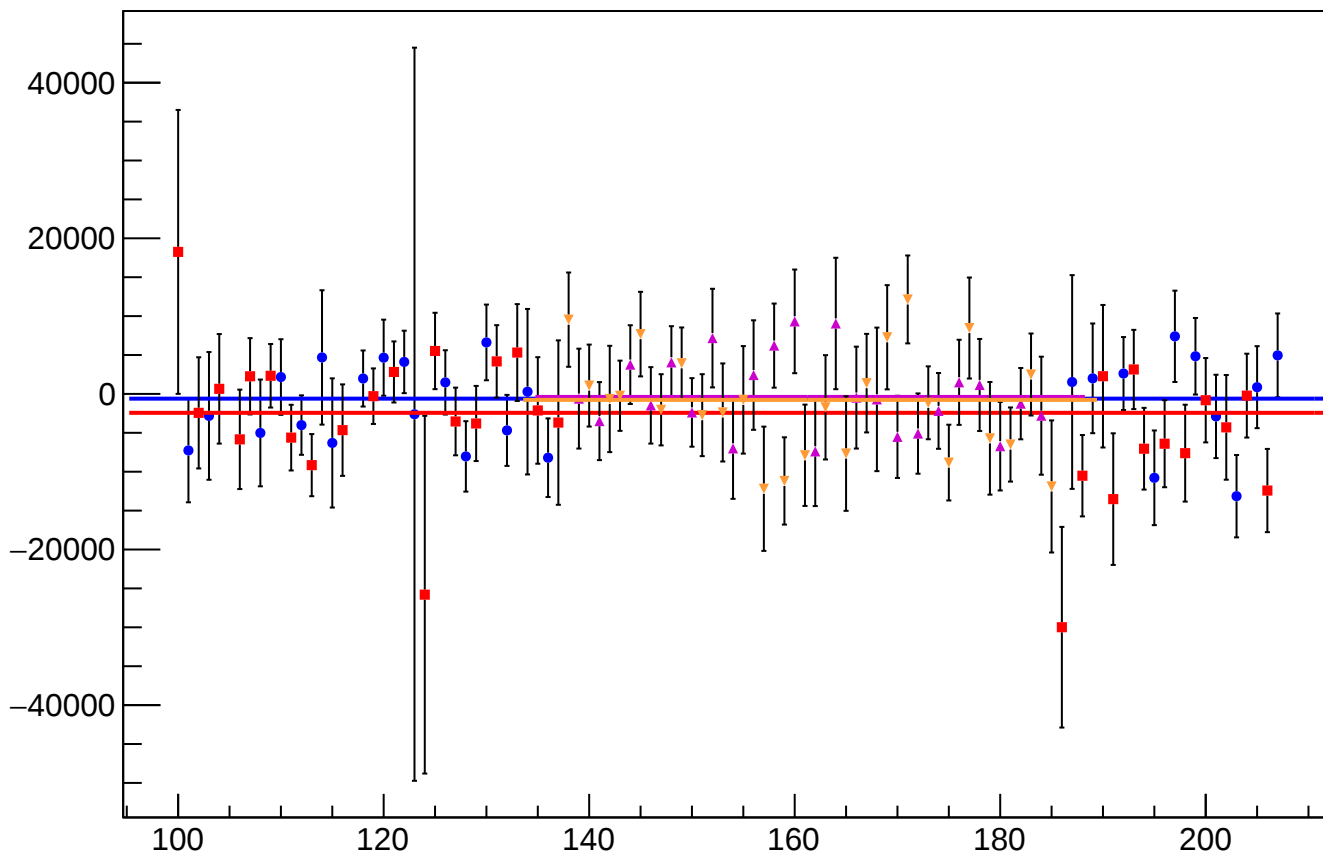
Out: 826.909 $\pm$ 0.193

χ^2 /NDF: 47915184.7/55

All: 1145.970 $\pm$ 0.174

χ^2 /NDF: 84980923.1/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -608.549 ± 1034.938 $\chi^2/\text{NDF}: 28.2/26$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -2429.858 ± 986.390 $\chi^2/\text{NDF}: 33.0/30$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

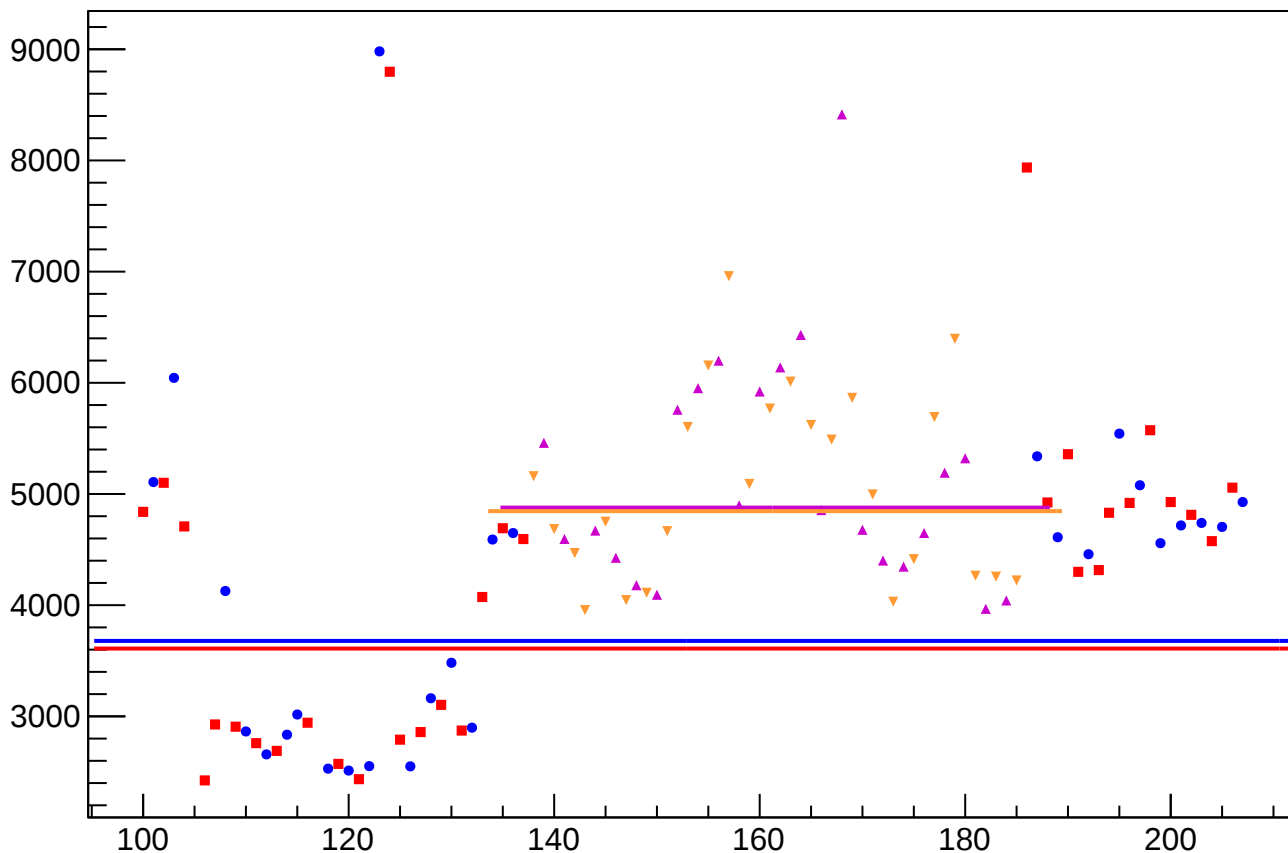
Right: -1562.923 ± 714.029 $\chi^2/\text{NDF}: 62.8/57$

In: -513.641 ± 779.871 $\chi^2/\text{NDF}: 42.4/49$

Out: -1722.752 ± 747.979 $\chi^2/\text{NDF}: 64.2/55$

All: -1143.425 ± 539.824 $\chi^2/\text{NDF}: 107.8/105$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3678.555+/-0.732 χ^2/NDF : 2146067.4/26

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3609.733+/-0.691 χ^2/NDF : 2576640.0/30

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

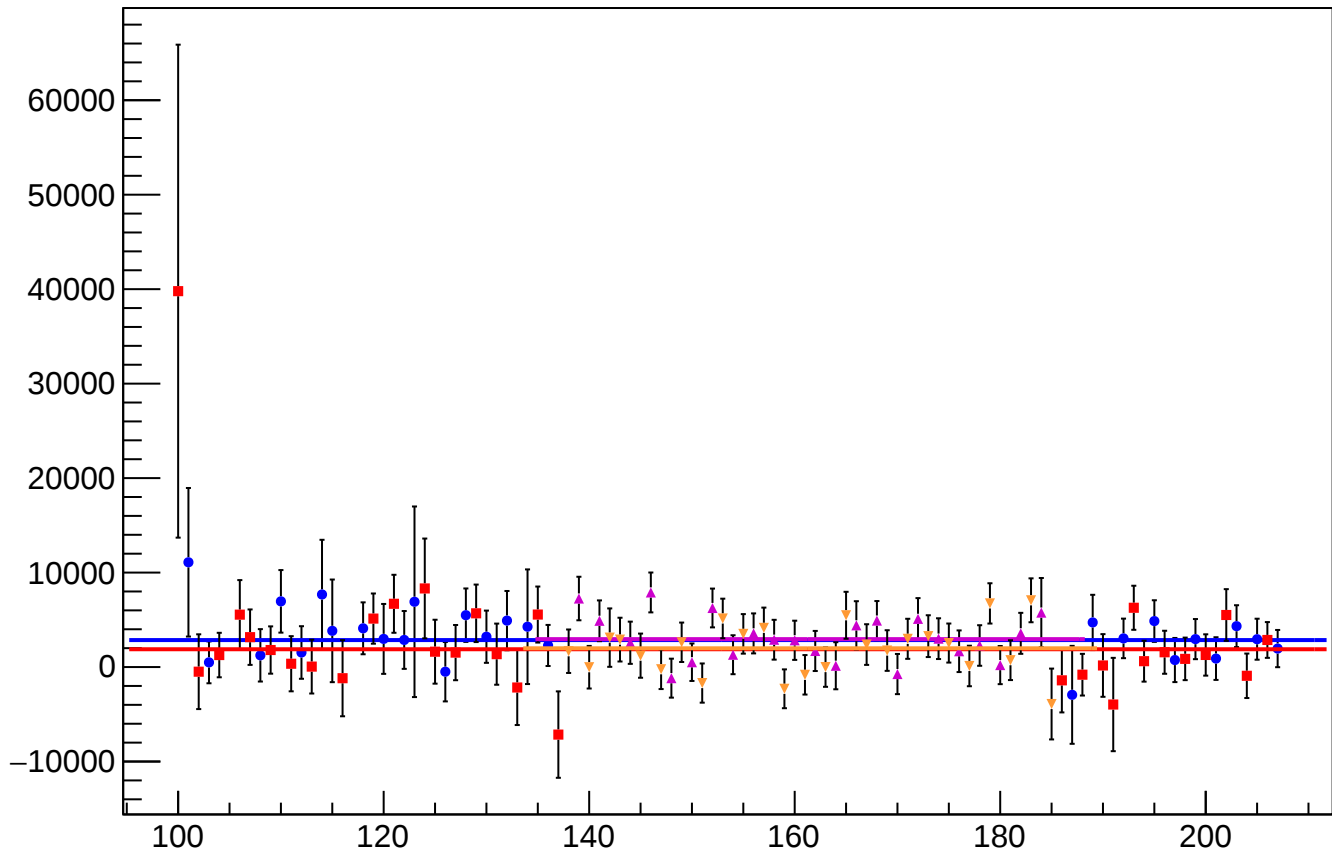
Right: 3642.196+/-0.503 χ^2/NDF : 4727379.9/57

In: 4196.684+/-0.551 χ^2/NDF : 4264603.6/49

Out: 4129.822+/-0.526 χ^2/NDF : 4830259.1/55

All: 4161.692+/-0.381 χ^2/NDF : 9102556.5/100

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2855.734+/-533.220 χ^2/NDF : 12.7/26

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1884.561+/-511.027 χ^2/NDF : 30.3/30

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

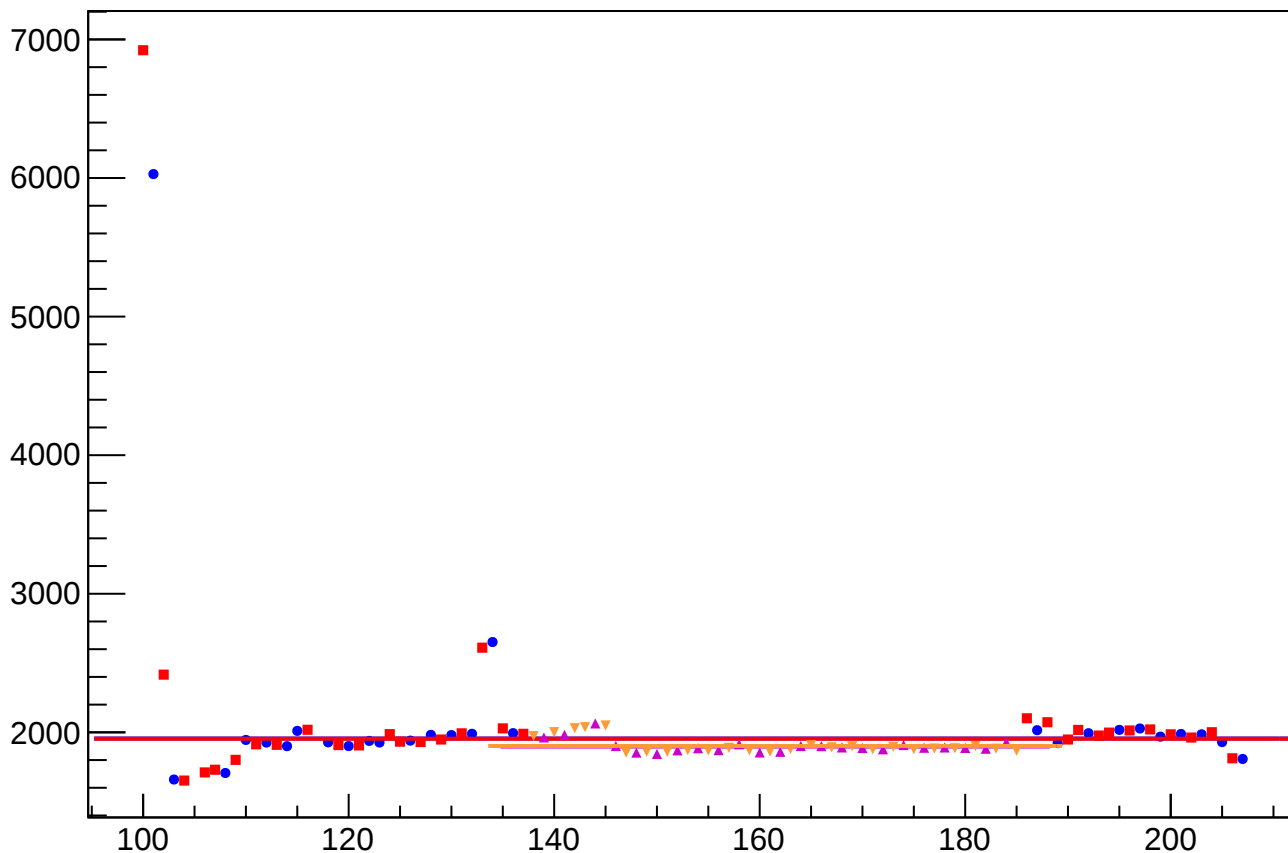
Right: 2349.517+/-368.947 χ^2/NDF : 44.7/57

In: 2913.745+/-345.919 χ^2/NDF : 41.2/49

Out: 1942.153+/-334.816 χ^2/NDF : 62.7/55

All: 2412.106+/-240.580 χ^2/NDF : 108.0/105

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1955.382+/-0.377 χ^2/NDF : 634520.3/26

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1953.938+/-0.361 χ^2/NDF : 247232.1/30

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

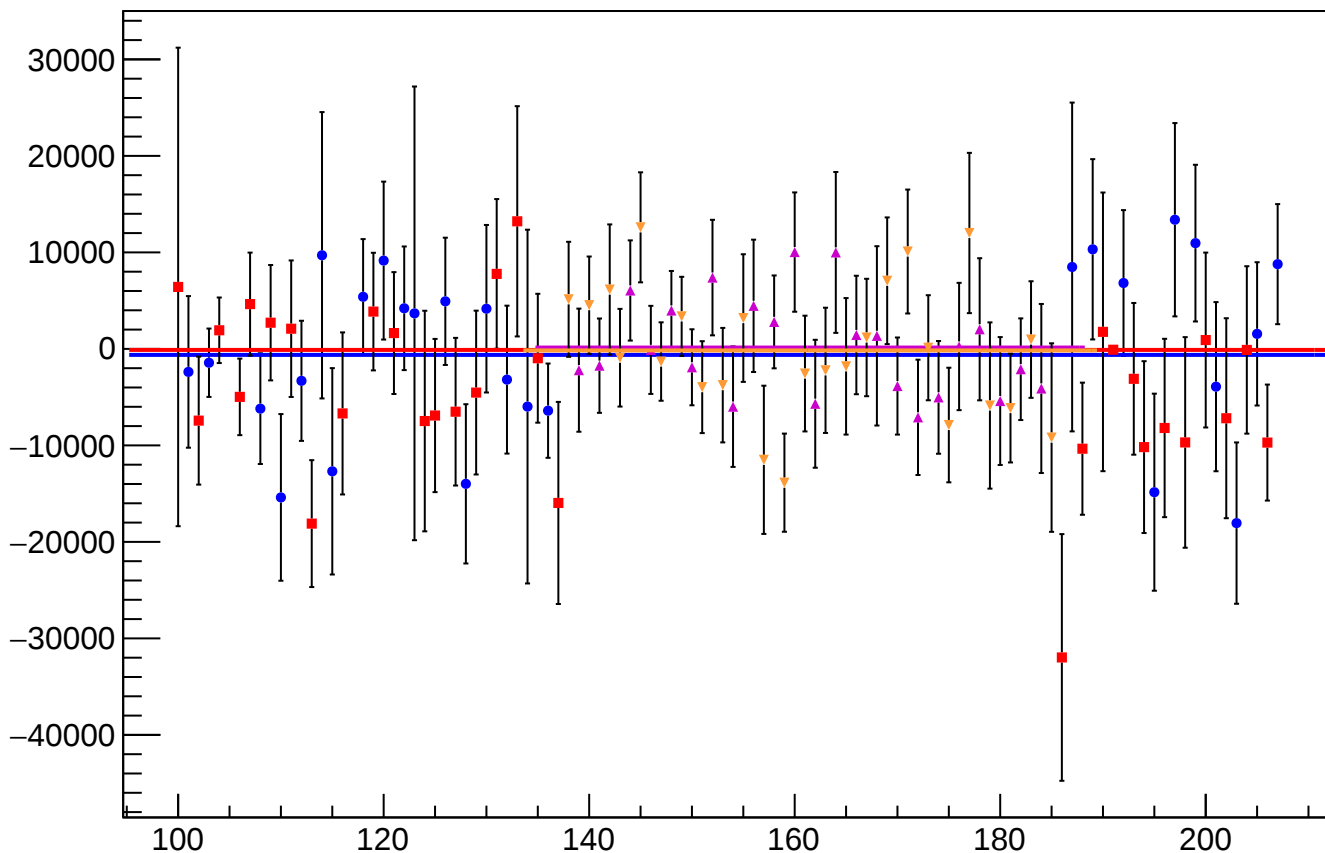
Right: 1954.629+/-0.261 χ^2/NDF : 881760.1/57

In: 1921.834+/-0.245 χ^2/NDF : 669369.8/49

Out: 1924.257+/-0.237 χ^2/NDF : 289537.9/55

All: 1923.086+/-0.170 χ^2/NDF : 958958.3/105

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -621.228+/-1415.380 χ^2/NDF : 29.6/26

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -106.075+/-109.551 χ^2/NDF : 34.1/30

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

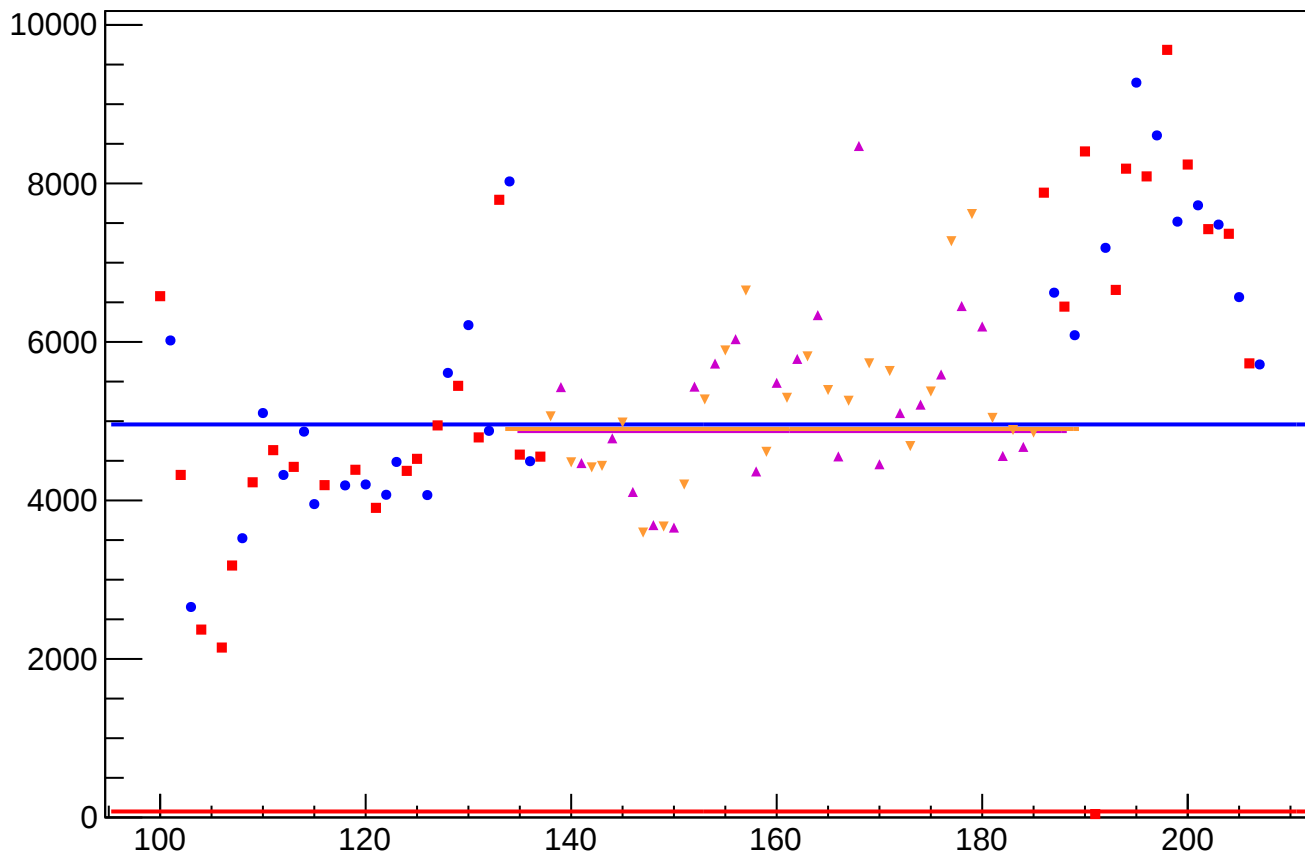
Right: -109.143+/-109.225 χ^2/NDF : 63.8/57

In: -176.114+/-911.245 χ^2/NDF : 44.5/49

Out: -106.526+/-109.071 χ^2/NDF : 63.6/55

All: -107.509+/-108.298 χ^2/NDF : 108.1/105

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4959.097+/-1.001 χ^2 /NDF: 2847825.0/26

Left Out: 4901.357+/-0.824 χ^2 /NDF: 1136916.0/24

Right Out: 75.373+/-0.077 χ^2 /NDF: 28604980.9/30

Left In: 4875.112+/-0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513+/-0.589 χ^2 /NDF: 2366610.1/47

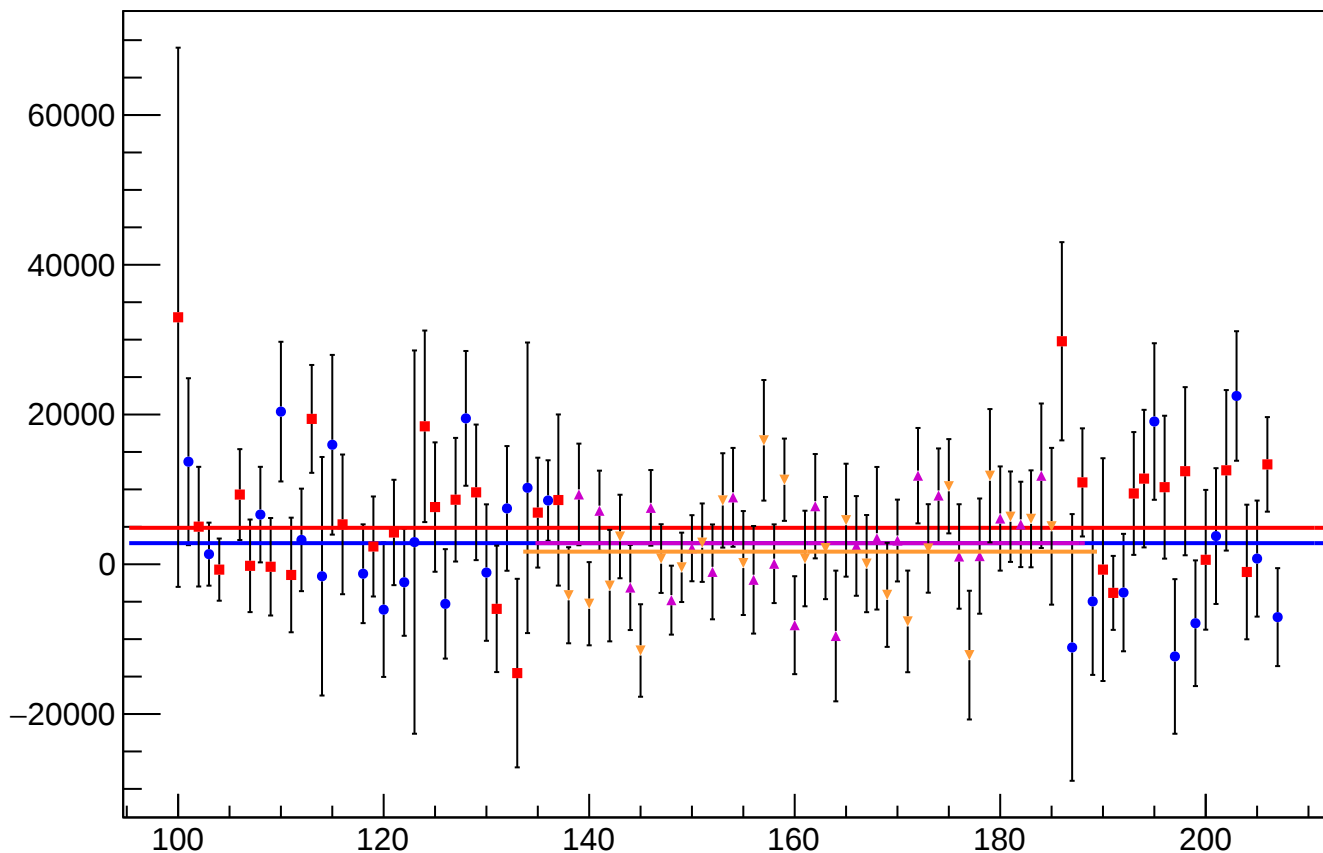
Right: 104.457+/-0.077 χ^2 /NDF: 55122457.0/57

In: 4909.924+/-0.644 χ^2 /NDF: 4081146.0/49

Out: 117.613+/-0.077 χ^2 /NDF: 63712441.5/55

All: 185.302+/-0.077 χ^2 /NDF: 122328150.0/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2820.502+/-1557.707 χ^2/NDF : 30.2/26

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4868.030+/-1402.533 χ^2/NDF : 27.1/30

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

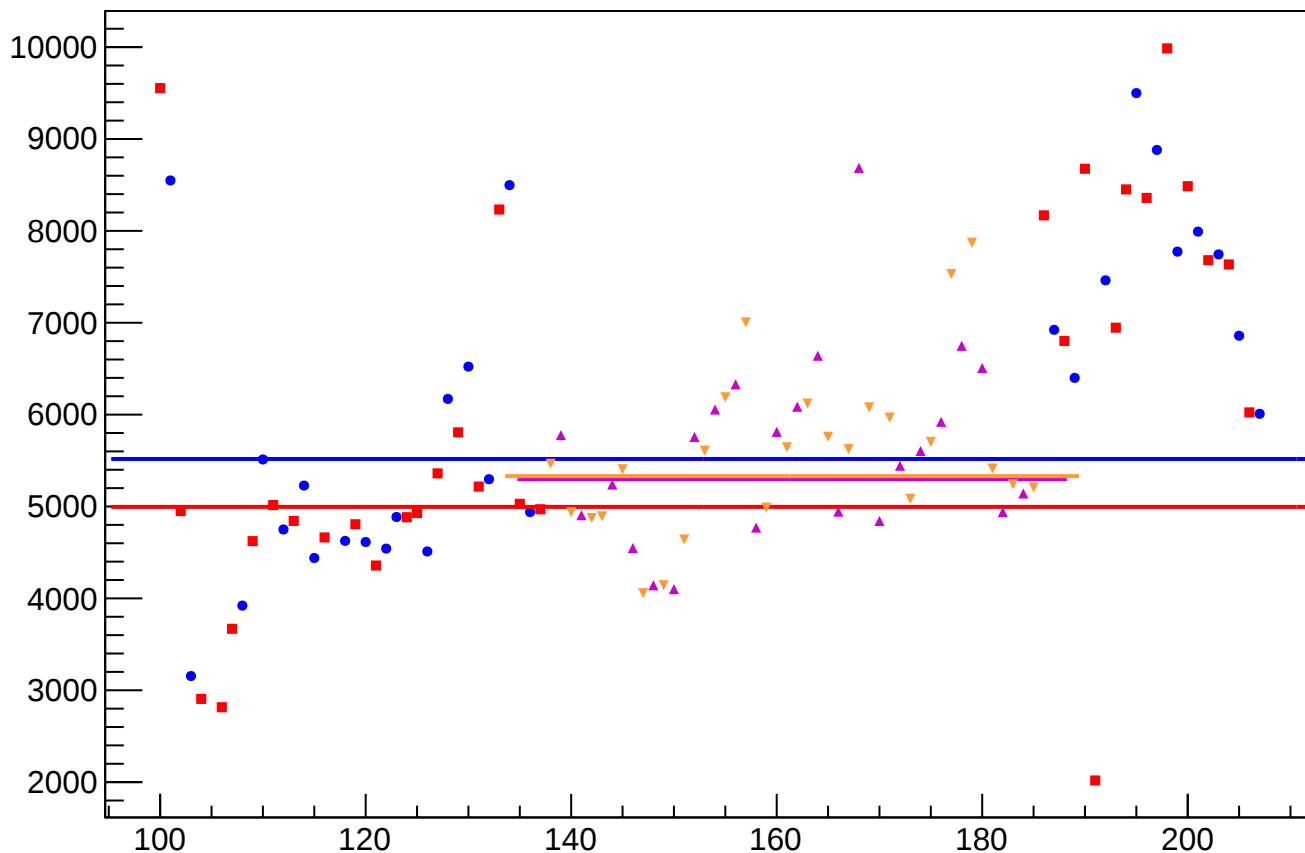
Right: 3951.303+/-1042.296 χ^2/NDF : 58.3/57

In: 2822.626+/-992.813 χ^2/NDF : 48.3/49

Out: 3109.512+/-937.986 χ^2/NDF : 55.4/55

All: 2974.209+/-681.816 χ^2/NDF : 103.7/105

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5517.325 $\pm$ 1.101 χ^2/NDF : 2335875.9/26

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF : 868061.7/24

Right Out: 4995.952 $\pm$ 0.988 χ^2/NDF : 3866814.4/30

Left In: 5298.329 $\pm$ 0.911 χ^2/NDF : 956021.6/22

Left: 5314.867 $\pm$ 0.637 χ^2/NDF : 1824728.8/47

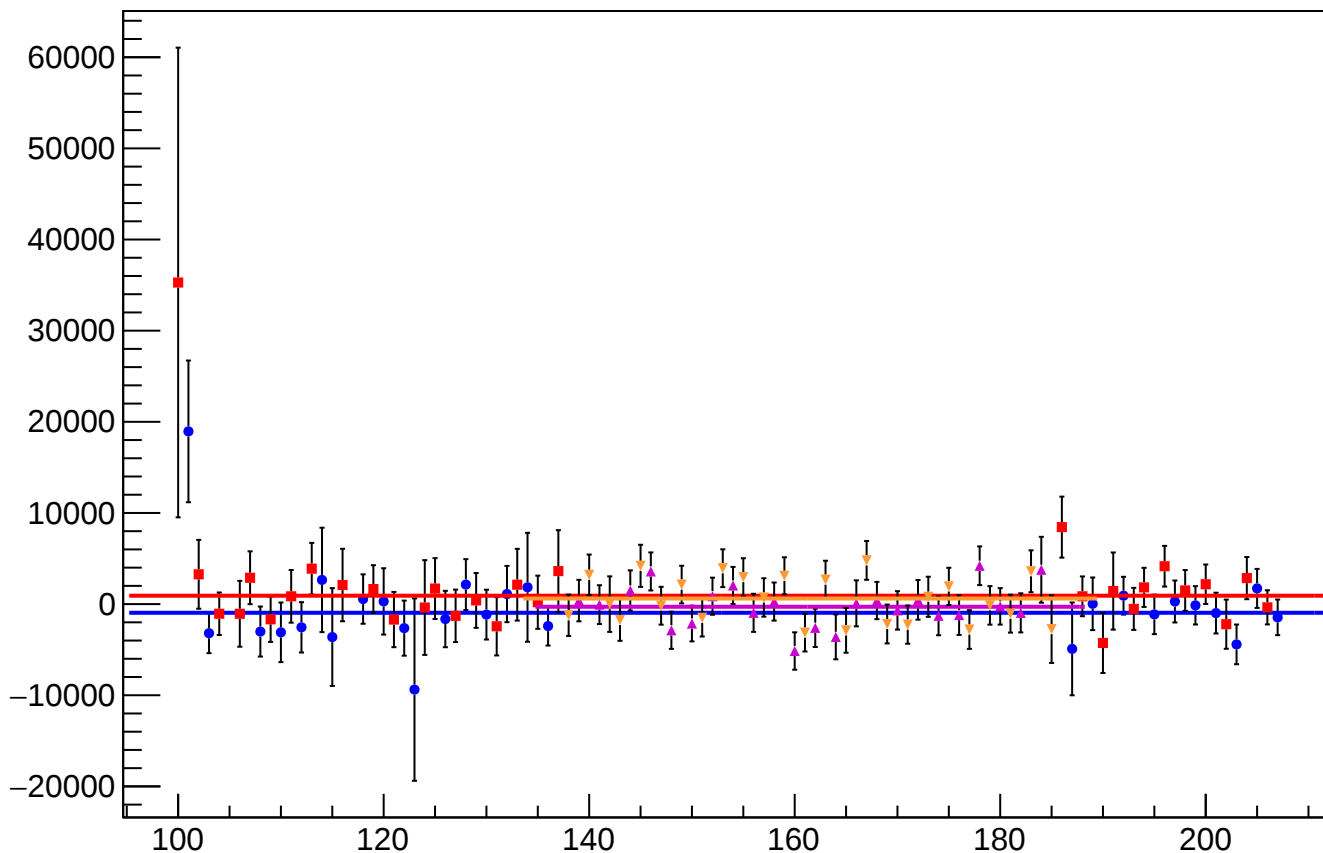
Right: 5228.395 $\pm$ 0.735 χ^2/NDF : 6326855.6/57

In: 5387.290 $\pm$ 0.702 χ^2/NDF : 3315369.7/49

Out: 5180.357 $\pm$ 0.662 χ^2/NDF : 4798125.8/55

All: 5277.775 $\pm$ 0.482 χ^2/NDF : 8159478.9/100

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -952.305+/-526.480 χ^2/NDF : 19.6/26

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 921.259+/-503.866 χ^2/NDF : 22.2/30

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

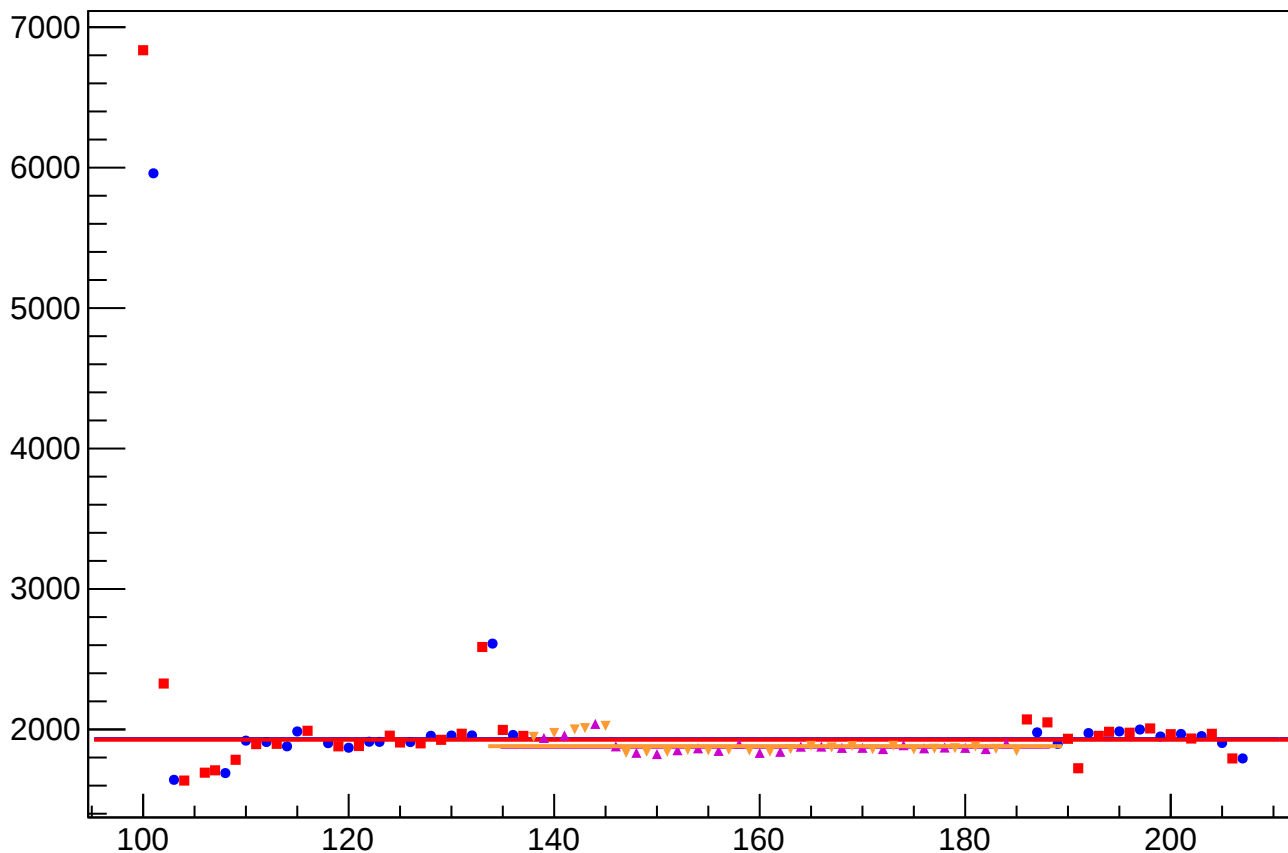
Right: 25.578+/-364.019 χ^2/NDF : 48.4/57

In: -571.030+/-341.886 χ^2/NDF : 44.1/49

Out: 745.378+/-330.678 χ^2/NDF : 55.1/55

All: 109.105+/-237.688 χ^2/NDF : 106.9/105

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1930.815 $\pm$ 0.372 χ^2 /NDF: 631435.1/26

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1927.101 $\pm$ 0.356 χ^2 /NDF: 245124.0/30

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

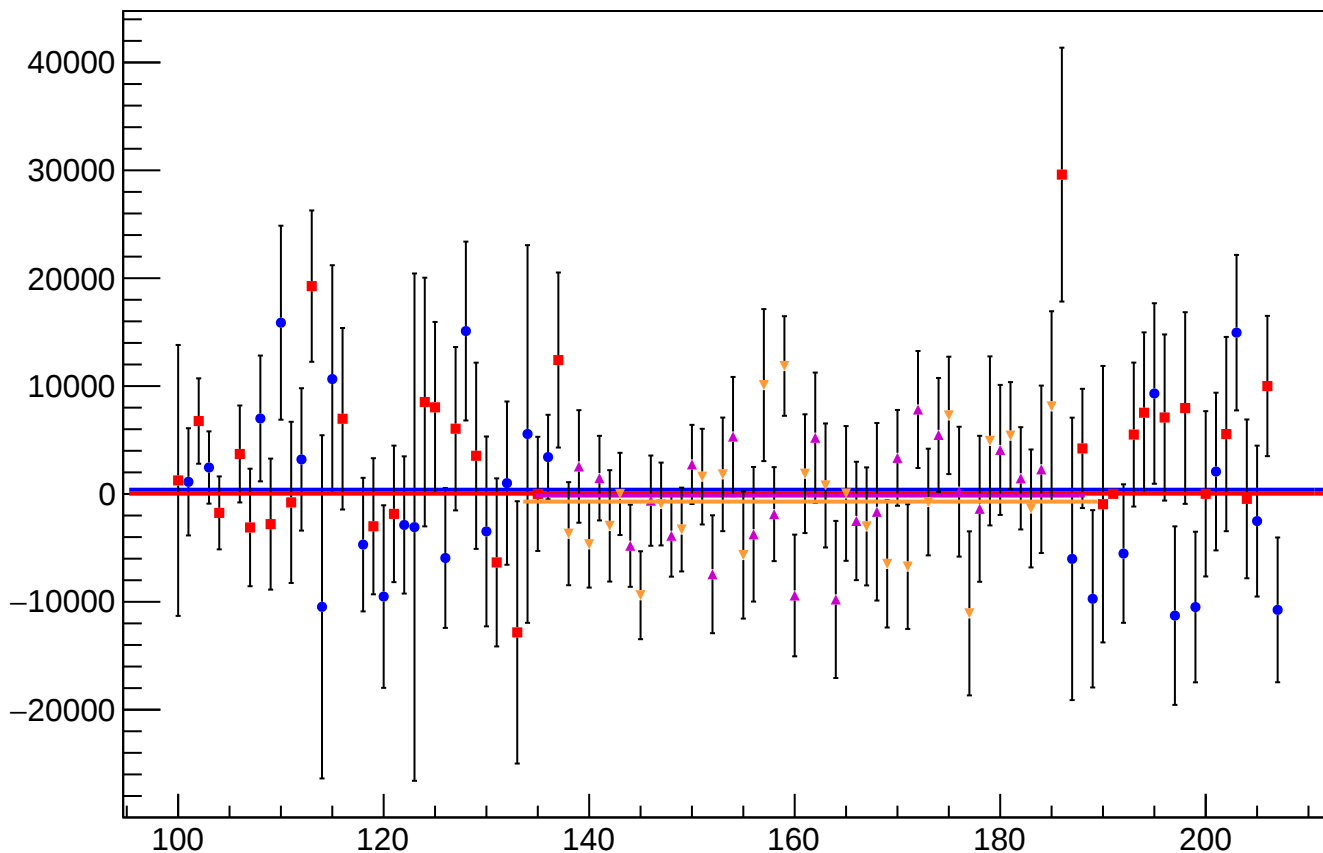
Right: 1928.875 $\pm$ 0.257 χ^2 /NDF: 876611.0/57

In: 1899.511 $\pm$ 0.242 χ^2 /NDF: 664161.5/49

Out: 1900.771 $\pm$ 0.234 χ^2 /NDF: 283402.1/55

All: 1900.163 $\pm$ 0.168 χ^2 /NDF: 947577.6/105

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 393.582 ± 1306.485 $\chi^2/\text{NDF}: 28.8/26$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 24.573 ± 85.796 $\chi^2/\text{NDF}: 32.4/30$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

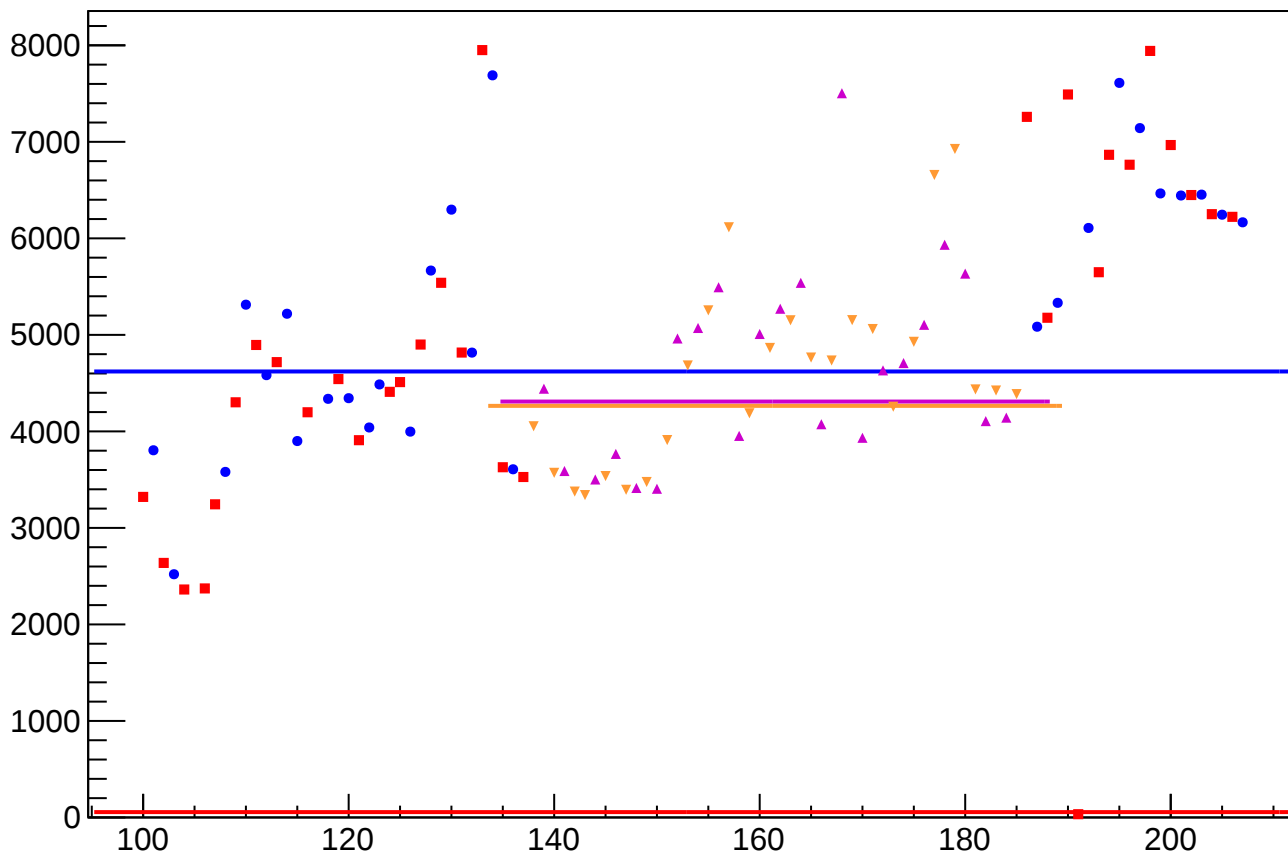
Right: 26.158 ± 85.612 $\chi^2/\text{NDF}: 61.3/57$

In: 63.920 ± 820.167 $\chi^2/\text{NDF}: 45.8/49$

Out: 19.405 ± 85.493 $\chi^2/\text{NDF}: 60.1/55$

All: 19.884 ± 85.032 $\chi^2/\text{NDF}: 105.8/105$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4620.767+/-0.924 χ^2/NDF : 2443810.2/26

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 55.405+/-0.061 χ^2/NDF : 28776814.0/30

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

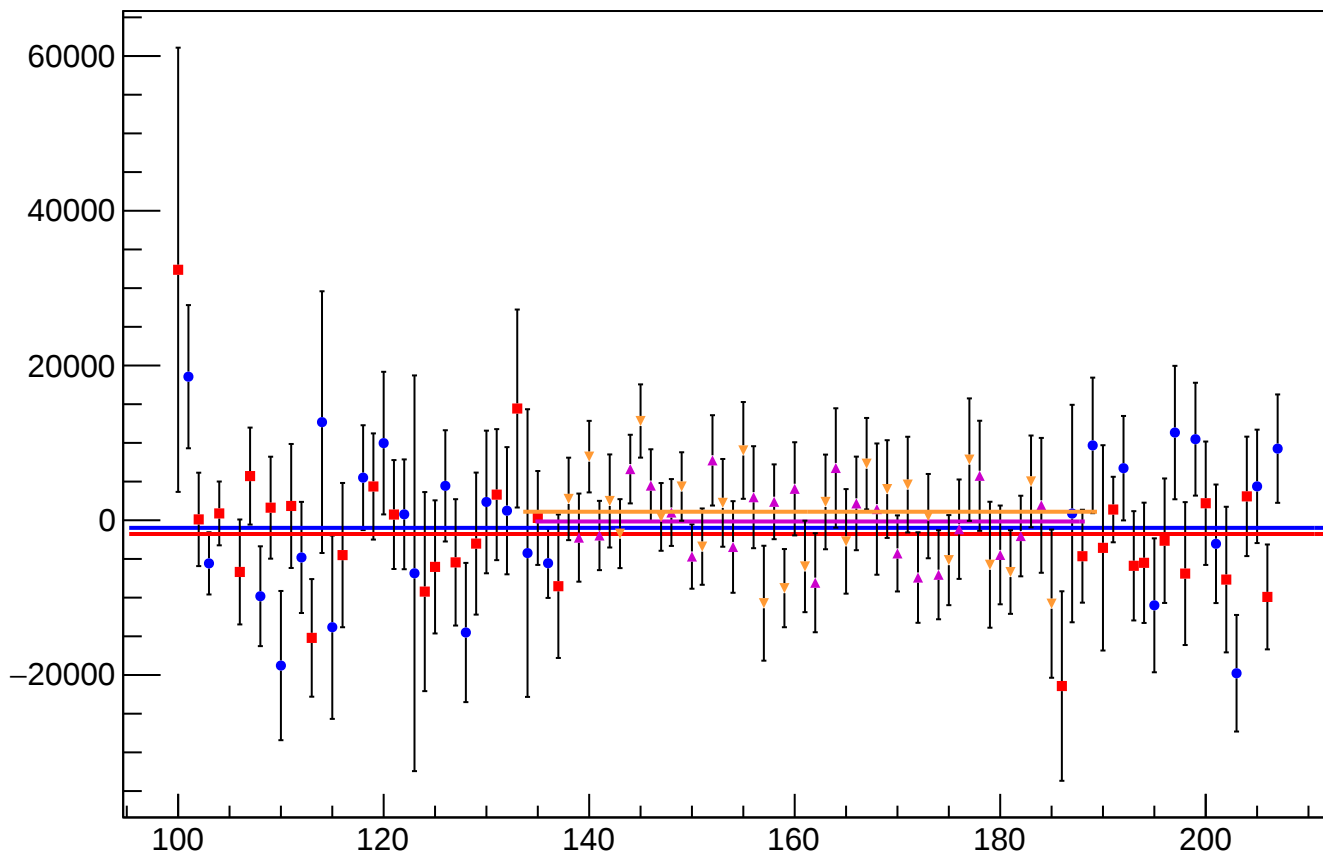
Right: 75.009+/-0.061 χ^2/NDF : 55537232.6/57

In: 4431.885+/-0.580 χ^2/NDF : 3817935.1/49

Out: 85.107+/-0.060 χ^2/NDF : 64099116.1/55

All: 131.831+/-0.060 χ^2/NDF : 123490419.4/1

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -981.942 ± 1468.998 $\chi^2/\text{NDF}: 37.3/26$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1775.559 ± 1319.876 $\chi^2/\text{NDF}: 18.6/30$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

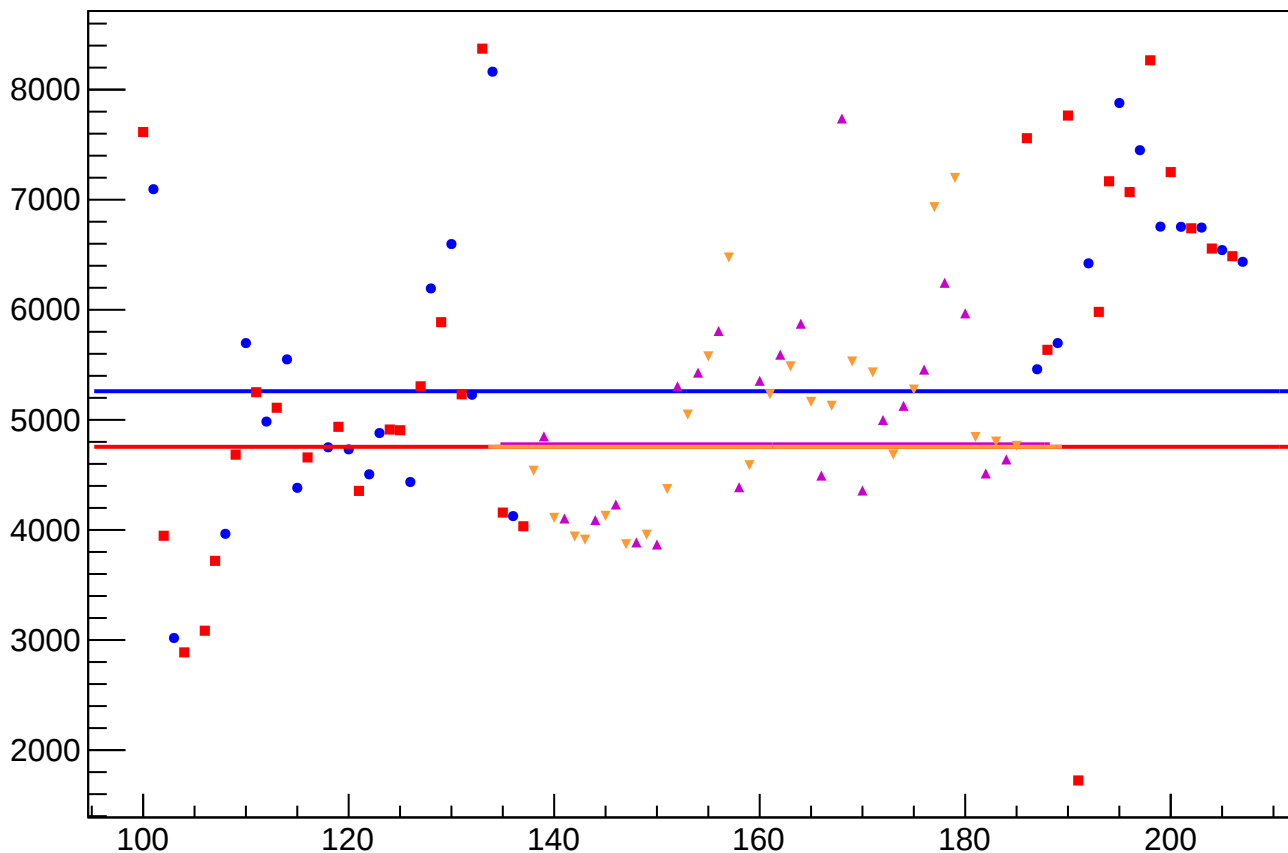
Right: -1421.064 ± 981.794 $\chi^2/\text{NDF}: 56.1/57$

In: -475.375 ± 911.112 $\chi^2/\text{NDF}: 53.0/49$

Out: -110.818 ± 856.919 $\chi^2/\text{NDF}: 49.9/55$

All: -281.933 ± 624.213 $\chi^2/\text{NDF}: 103.1/105$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5260.095+/-1.039 χ^2/NDF : 1839539.5/26

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4755.213+/-0.930 χ^2/NDF : 3429918.2/30

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

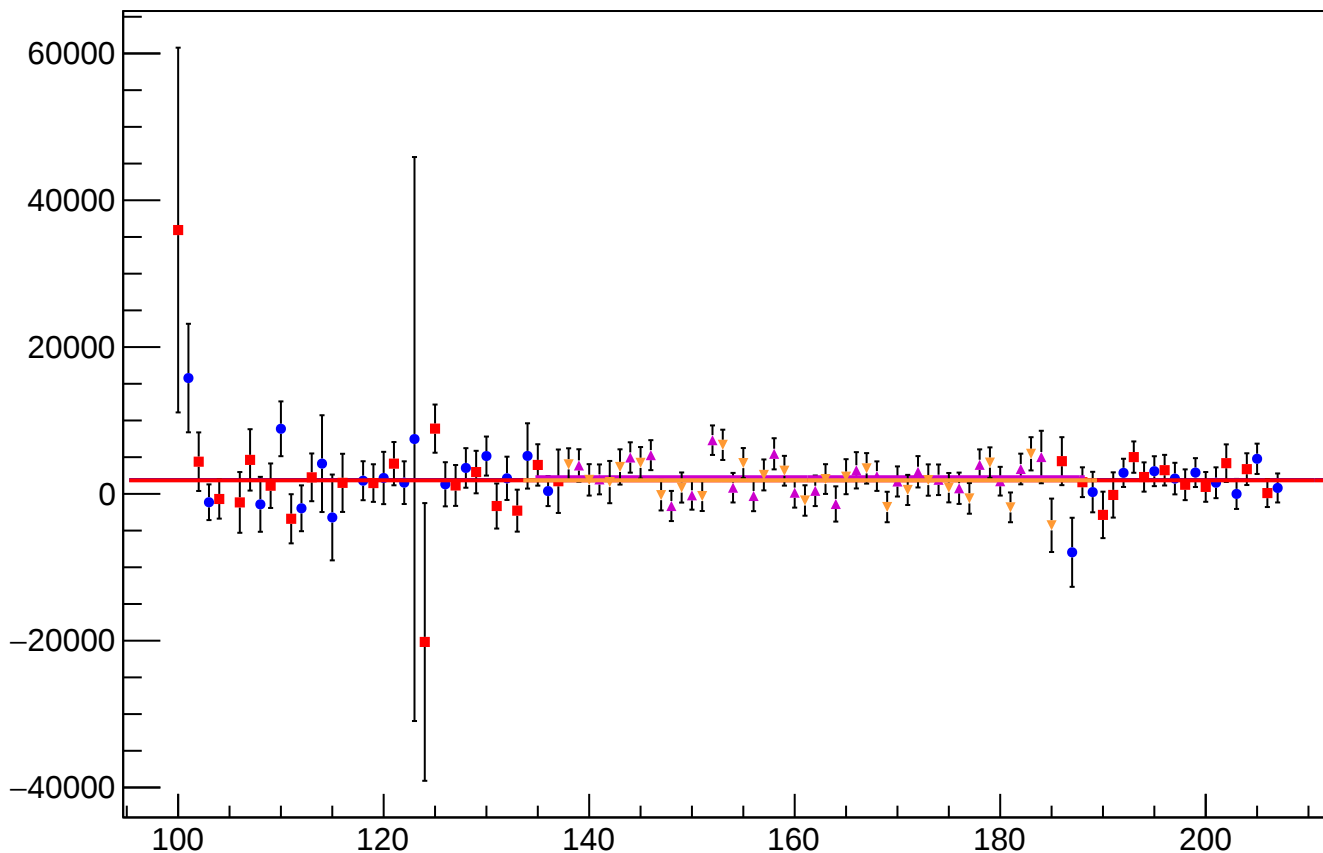
Right: 4979.887+/-0.693 χ^2/NDF : 5400574.6/57

In: 4963.349+/-0.644 χ^2/NDF : 2922465.8/49

Out: 4755.311+/-0.605 χ^2/NDF : 4383246.2/55

All: 4852.811+/-0.441 χ^2/NDF : 7361116.0/100

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1888.129+/-517.199 χ^2/NDF : 23.6/26

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1848.238+/-496.900 χ^2/NDF : 25.8/30

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

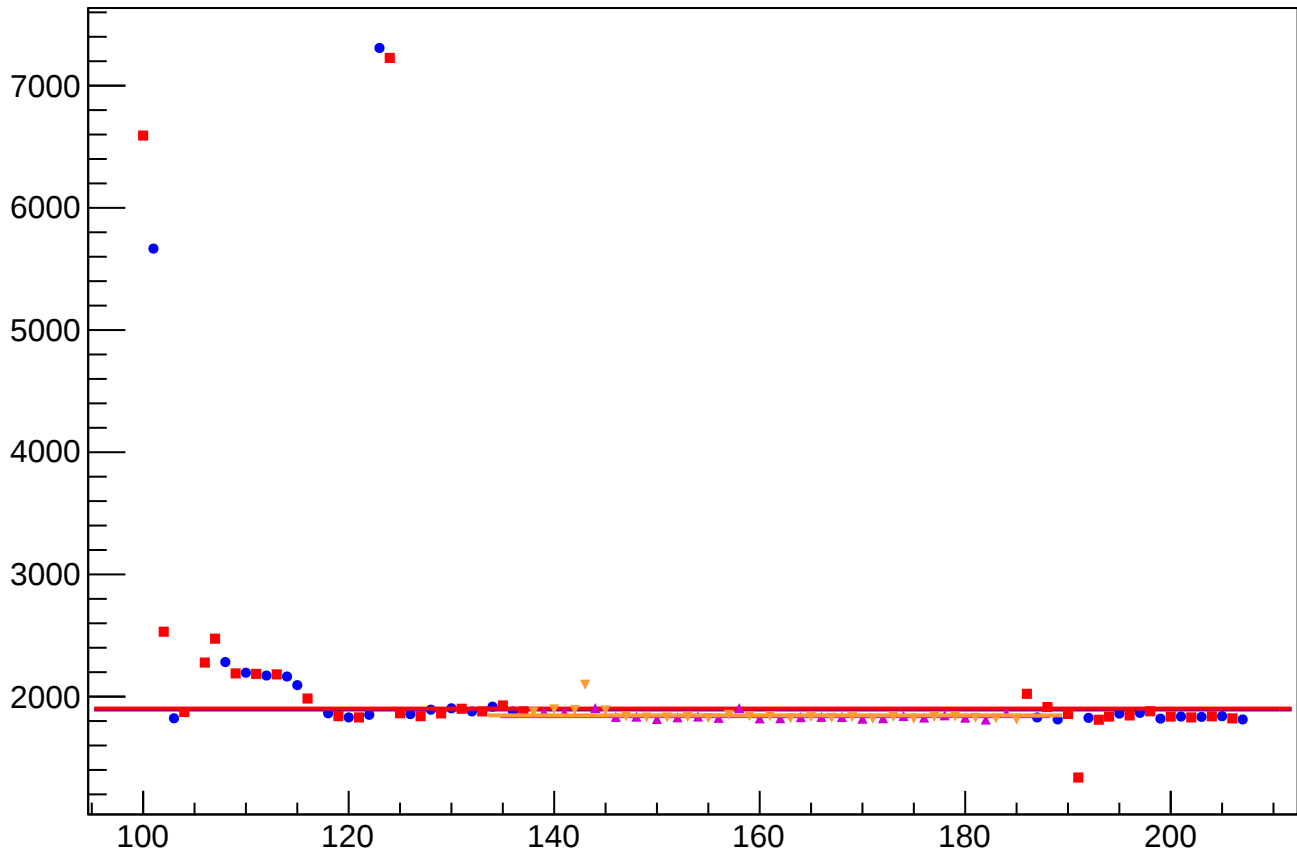
Right: 1867.385+/-358.323 χ^2/NDF : 49.4/57

In: 2108.053+/-335.885 χ^2/NDF :50.7/49

Out: 1852.993+/-325.577 χ^2/NDF :55.8/55

All: 1976.549+/-233.777 χ^2/NDF : 106.9/105

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1894.978 $\pm$ 0.366 χ^2 /NDF: 636693.3/26

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1902.044 $\pm$ 0.351 χ^2 /NDF: 472725.0/30

Left In: 1840.541 $\pm$ 0.312 χ^2 /NDF: 6740.2/22

Left: 1843.646 $\pm$ 0.218 χ^2 /NDF: 34235.8/47

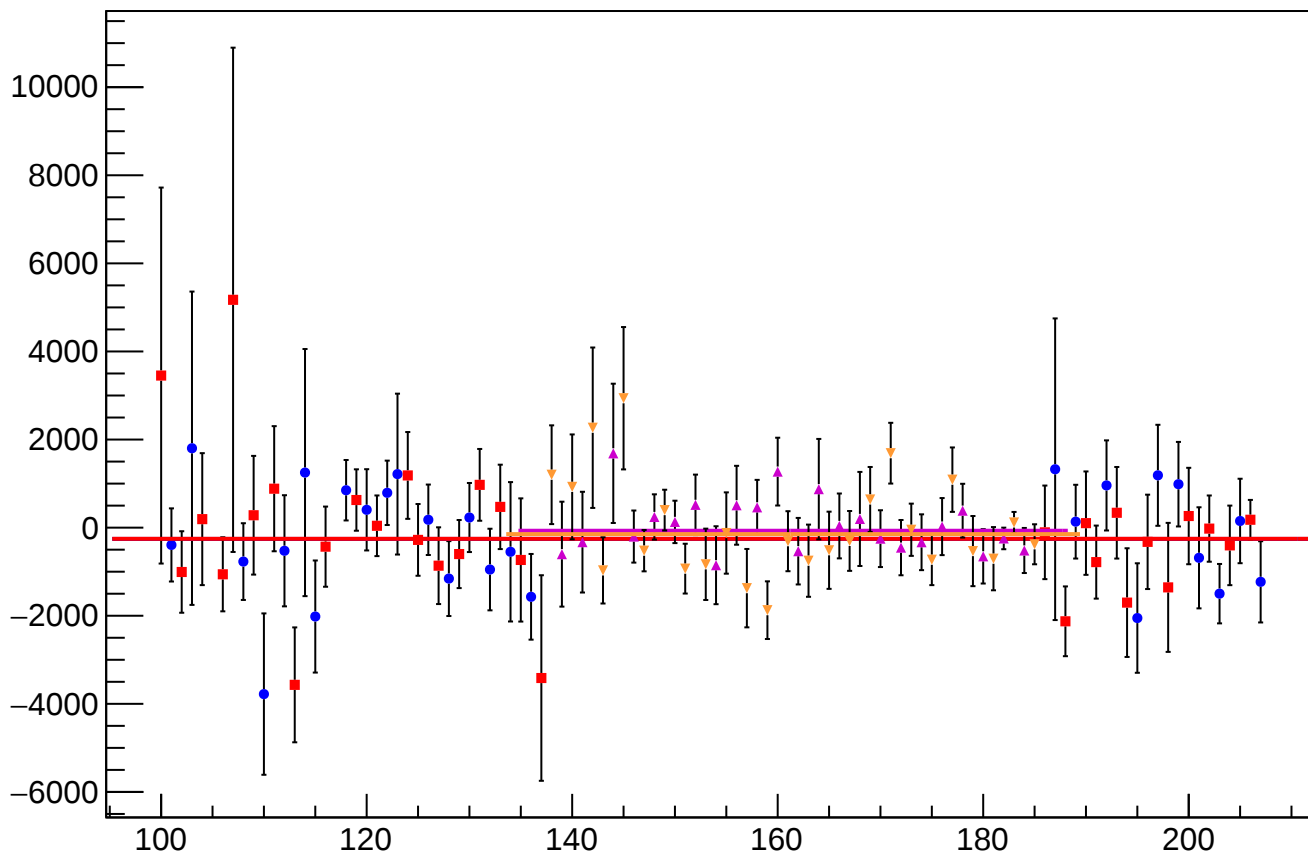
Right: 1898.652 $\pm$ 0.253 χ^2 /NDF: 1109612.4/57

In: 1863.501 $\pm$ 0.238 χ^2 /NDF: 656245.2/49

Out: 1870.404 $\pm$ 0.230 χ^2 /NDF: 514236.8/55

All: 1867.060 $\pm$ 0.165 χ^2 /NDF: 1170917.5/100

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -256.571 ± 191.144 χ^2/NDF : 28.7/26

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -253.487 ± 168.342 χ^2/NDF : 29.7/30

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

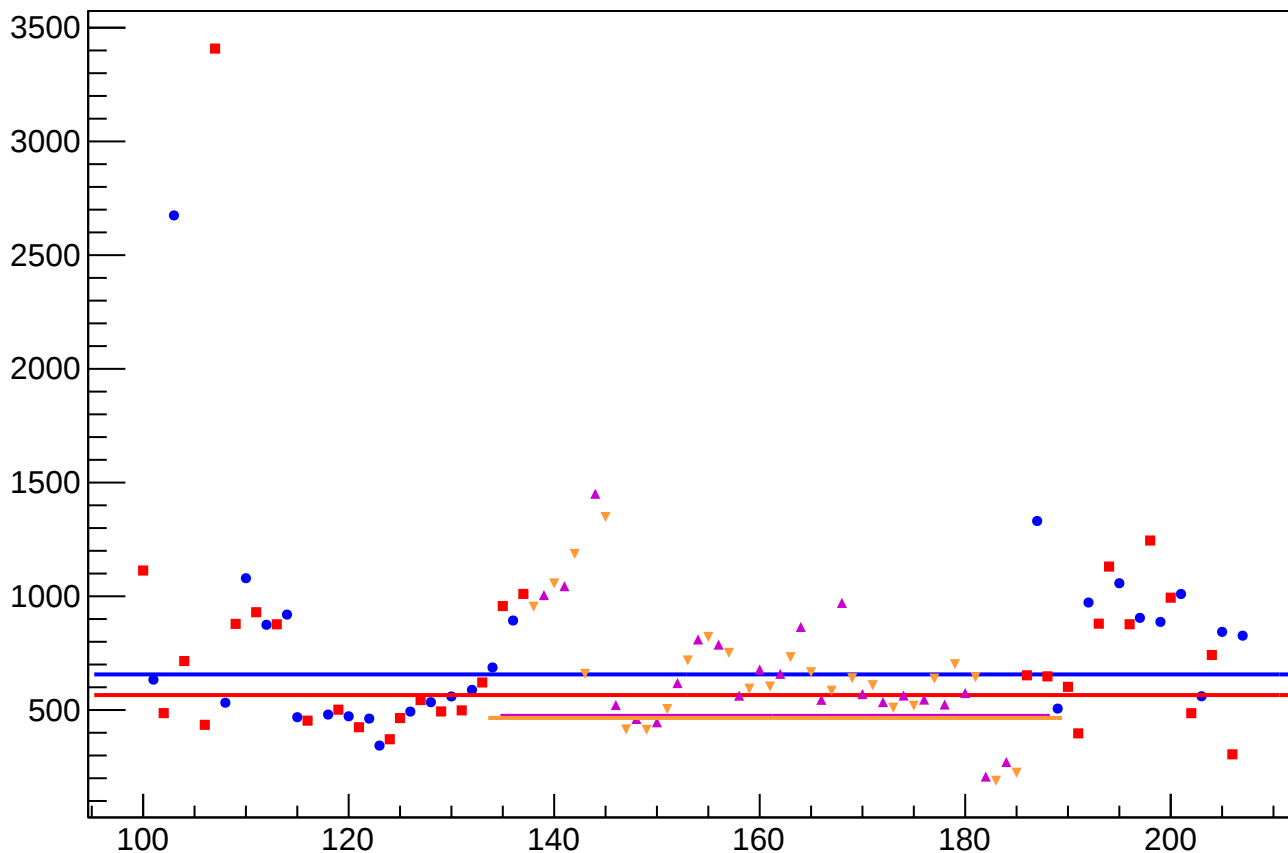
Right: -254.834 ± 126.332 χ^2/NDF : 58.4/57

In: -126.983 ± 105.417 χ^2/NDF : 41.7/49

Out: -183.662 ± 98.777 χ^2/NDF : 67.6/55

All: -157.164 ± 72.079 χ^2/NDF : 109.4/105

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 656.552 ± 0.135 $\chi^2/\text{NDF}: 2737785.3/26$

Left Out: 465.080 ± 0.086 $\chi^2/\text{NDF}: 7086137.6/24$

Right Out: 565.674 ± 0.119 $\chi^2/\text{NDF}: 3866401.1/30$

Left In: 474.263 ± 0.089 $\chi^2/\text{NDF}: 6173100.1/22$

Left: 469.509 ± 0.062 $\chi^2/\text{NDF}: 13264703.6/47$

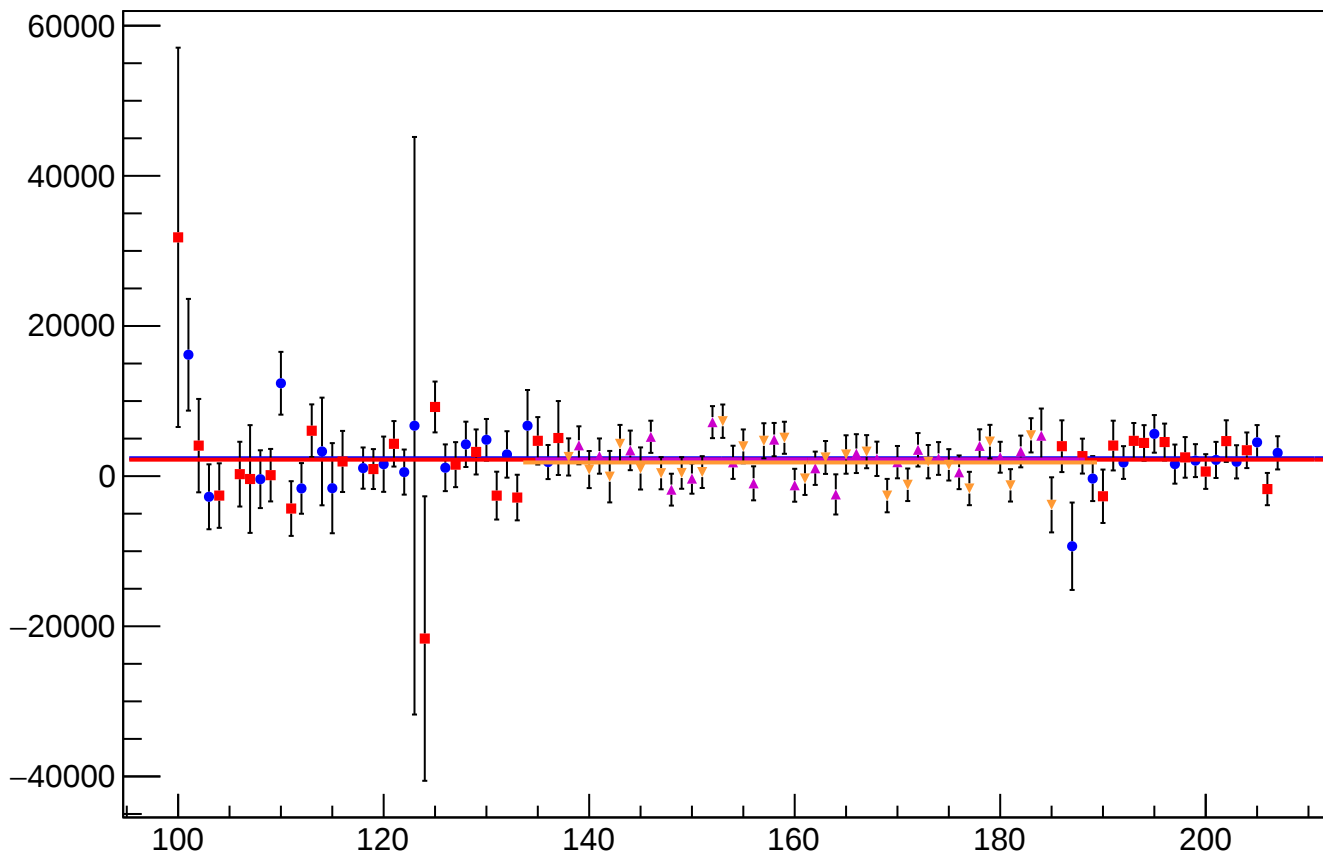
Right: 605.372 ± 0.089 $\chi^2/\text{NDF}: 6858790.7/57$

In: 529.707 ± 0.075 $\chi^2/\text{NDF}: 10176616.5/49$

Out: 499.714 ± 0.070 $\chi^2/\text{NDF}: 11420813.0/55$

All: 513.737 ± 0.051 $\chi^2/\text{NDF}: 21683637.2/100$

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2382.142 $\pm$ 580.128 χ^2 /NDF: 23.6/26

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 2195.393 $\pm$ 561.482 χ^2 /NDF: 30.8/30

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

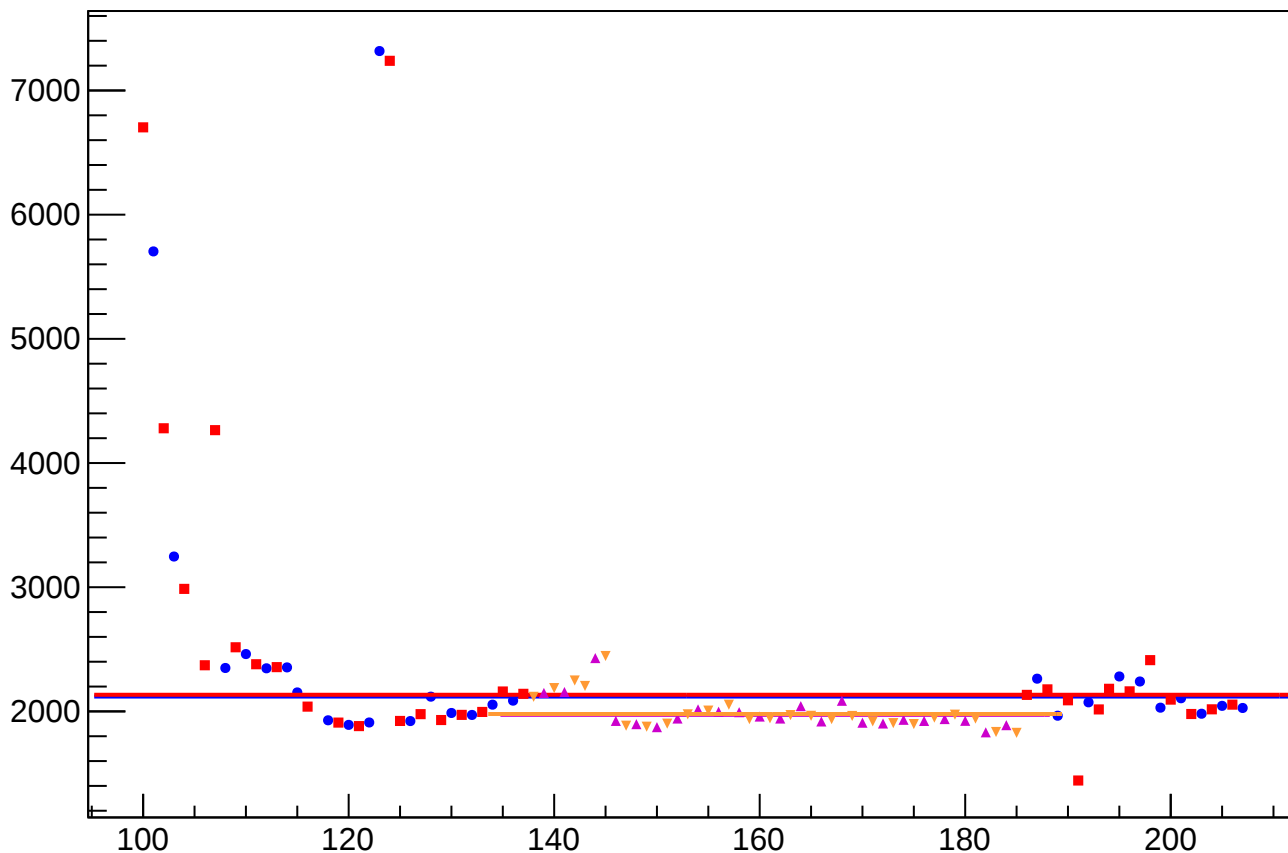
Right: 2285.718 $\pm$ 403.459 χ^2 /NDF: 54.5/57

In: 2277.792 $\pm$ 367.081 χ^2 /NDF:49.0/49

Out: 1974.243 $\pm$ 357.075 χ^2 /NDF:63.2/55

All: 2121.824 $\pm$ 255.954 χ^2 /NDF: 112.5/105

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2119.581 $\pm$ 0.410 χ^2 /NDF: 750364.5/26

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2133.968 $\pm$ 0.397 χ^2 /NDF: 941538.2/30

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

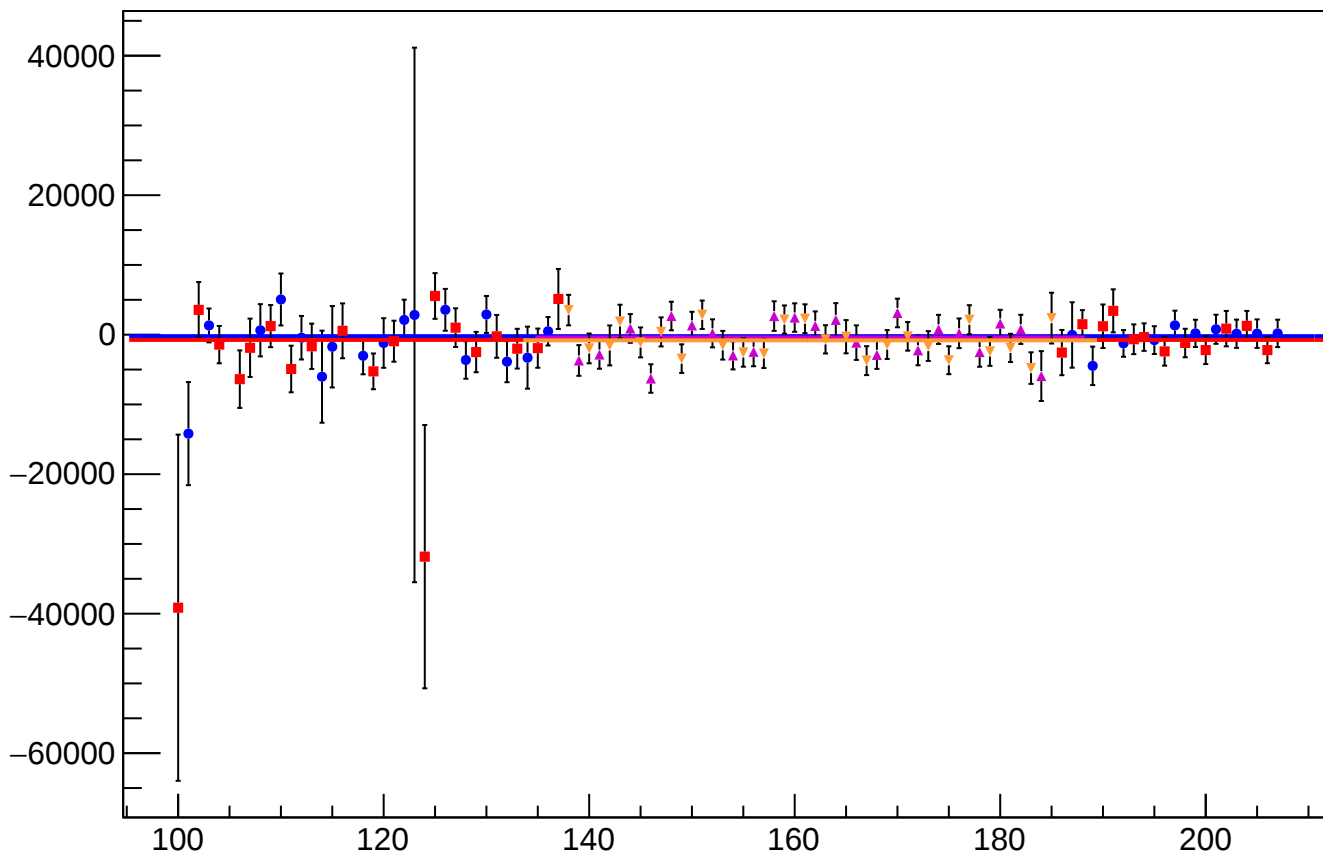
Right: 2127.010 $\pm$ 0.285 χ^2 /NDF: 1692537.8/57

In: 2031.189 $\pm$ 0.260 χ^2 /NDF:944252.3/49

Out: 2041.673 $\pm$ 0.252 χ^2 /NDF:1171576.2/55

All: 2036.575 $\pm$ 0.181 χ^2 /NDF: 2116666.7/100

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -210.918 $\pm$ 513.866 χ^2 /NDF: 19.1/26

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF:27.9/24

Right Out: -749.550 $\pm$ 493.525 χ^2 /NDF: 27.2/30

Left In: -398.797 $\pm$ 441.246 χ^2 /NDF:34.4/22

Left: -608.759 $\pm$ 308.066 χ^2 /NDF: 62.8/47

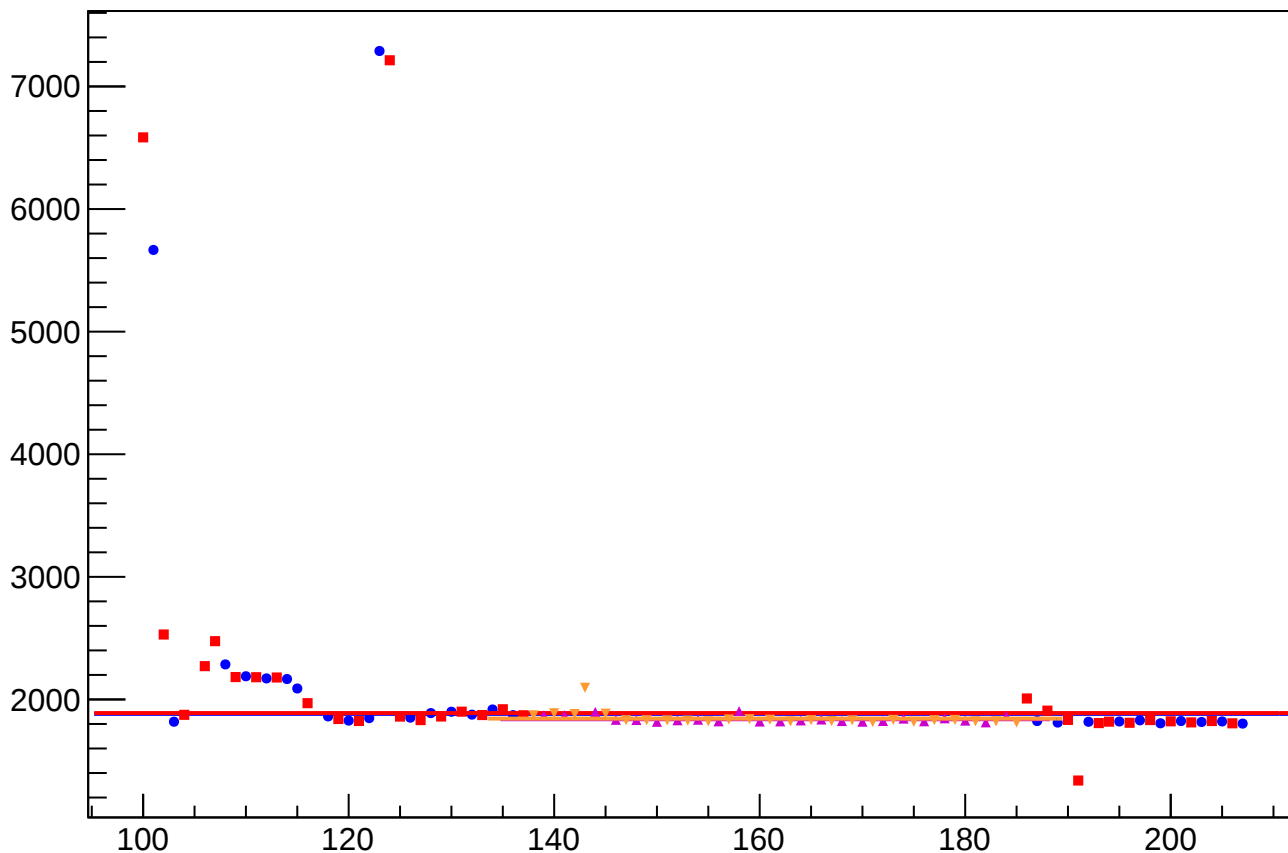
Right: -491.106 $\pm$ 355.949 χ^2 /NDF: 46.9/57

In: -319.061 $\pm$ 334.765 χ^2 /NDF:53.6/49

Out: -783.004 $\pm$ 324.334 χ^2 /NDF:55.1/55

All: -558.372 $\pm$ 232.939 χ^2 /NDF: 109.7/105

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1882.438 $\pm$ 0.363 χ^2 /NDF: 645906.4/26

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1888.911 $\pm$ 0.349 χ^2 /NDF: 480101.5/30

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

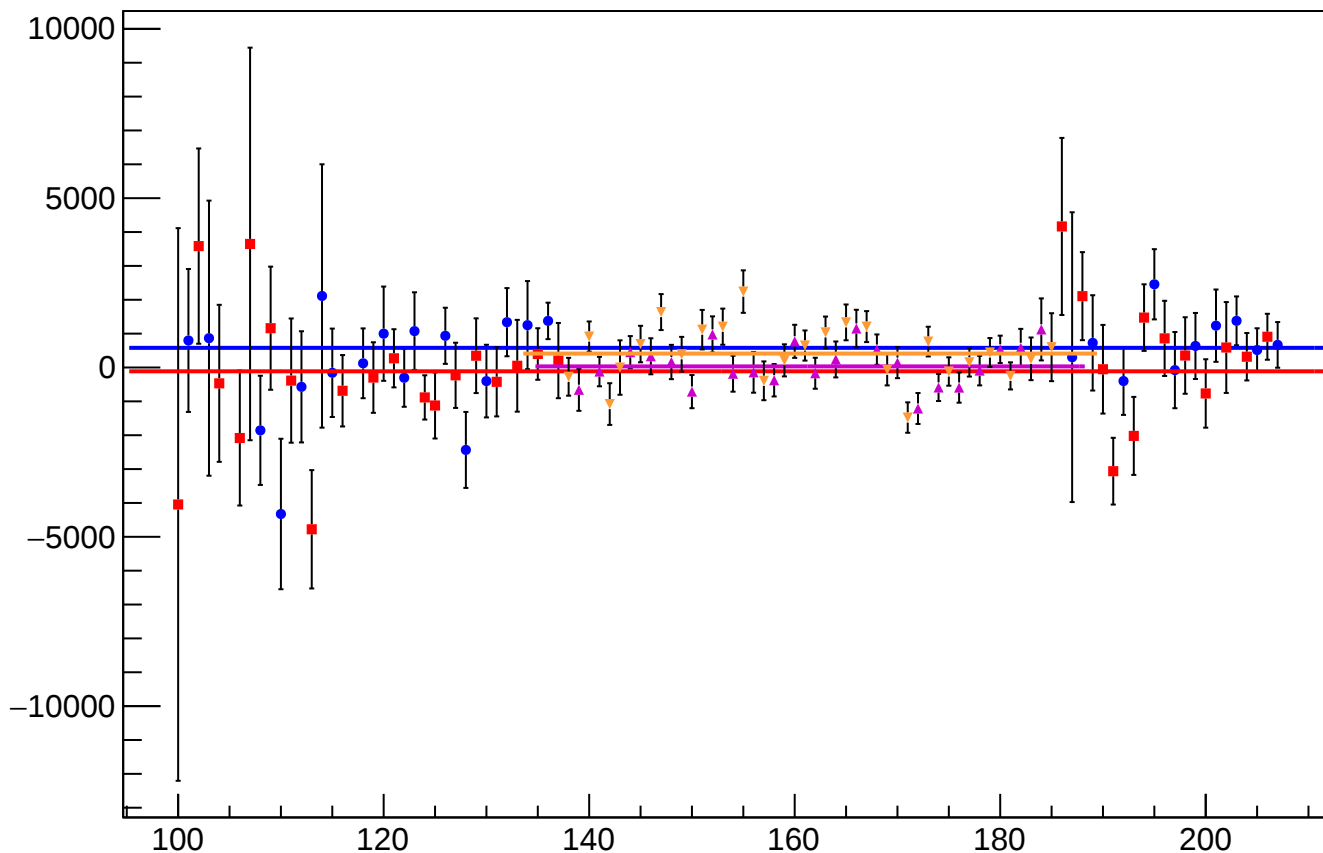
Right: 1885.805 $\pm$ 0.252 χ^2 /NDF: 1126173.0/57

In: 1857.211 $\pm$ 0.237 χ^2 /NDF: 660615.3/49

Out: 1863.252 $\pm$ 0.229 χ^2 /NDF: 516484.5/55

All: 1860.327 $\pm$ 0.165 χ^2 /NDF: 1177435.7/100

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 580.441+/-198.516 χ^2/NDF : 27.1/26

Left Out: 411.072+/-100.456 χ^2/NDF : 61.2/24

Right Out: -112.515+/-197.953 χ^2/NDF : 38.9/30

Left In: 32.456+/-102.403 χ^2/NDF : 32.7/22

Left: 225.398+/-71.712 χ^2/NDF : 100.9/47

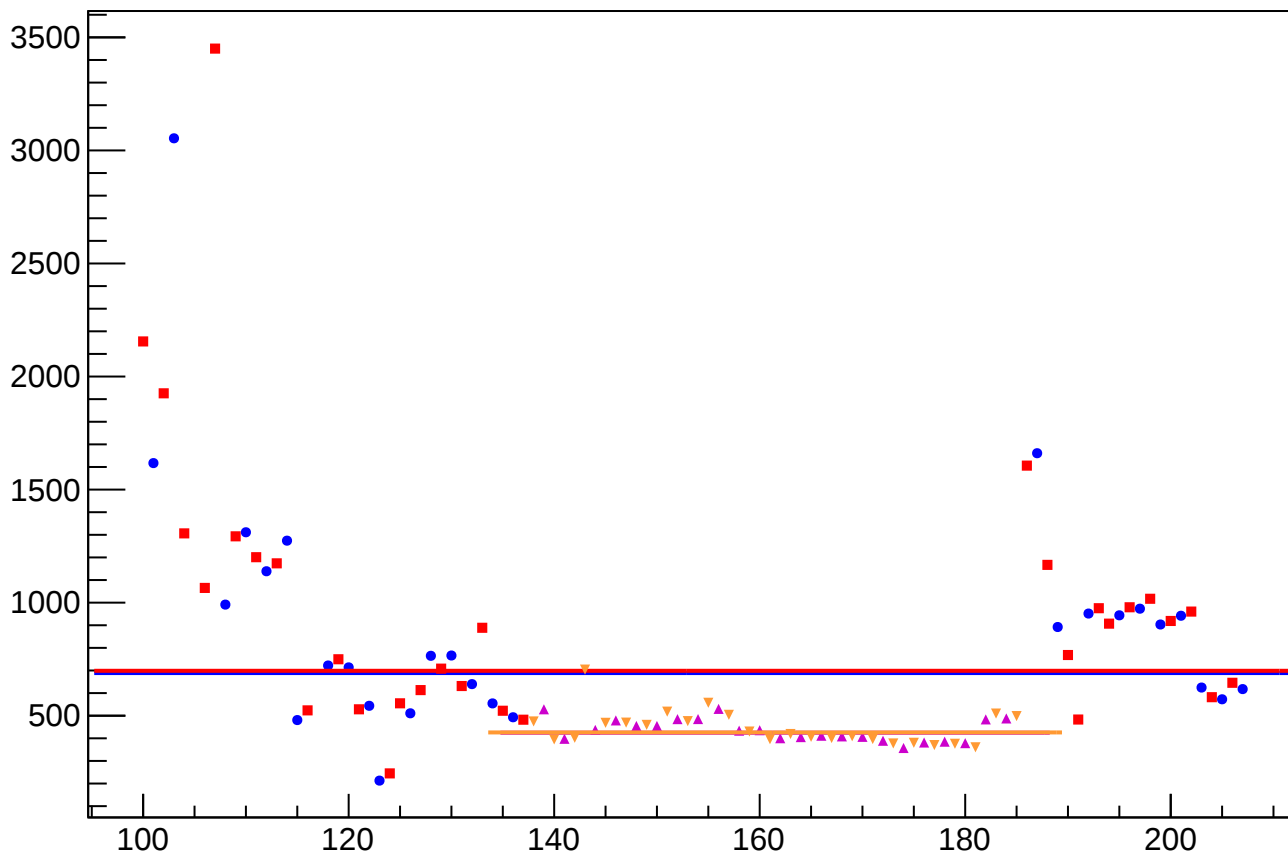
Right: 232.978+/-140.172 χ^2/NDF : 72.2/57

In: 147.626+/-91.008 χ^2/NDF : 65.9/49

Out: 303.846+/-89.581 χ^2/NDF : 105.7/55

All: 226.970+/-63.842 χ^2/NDF : 173.1/105

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 688.602 $\pm$ 0.140 χ^2 /NDF: 3191241.4/26

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 698.637 $\pm$ 0.140 χ^2 /NDF: 4320831.7/30

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF: 391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

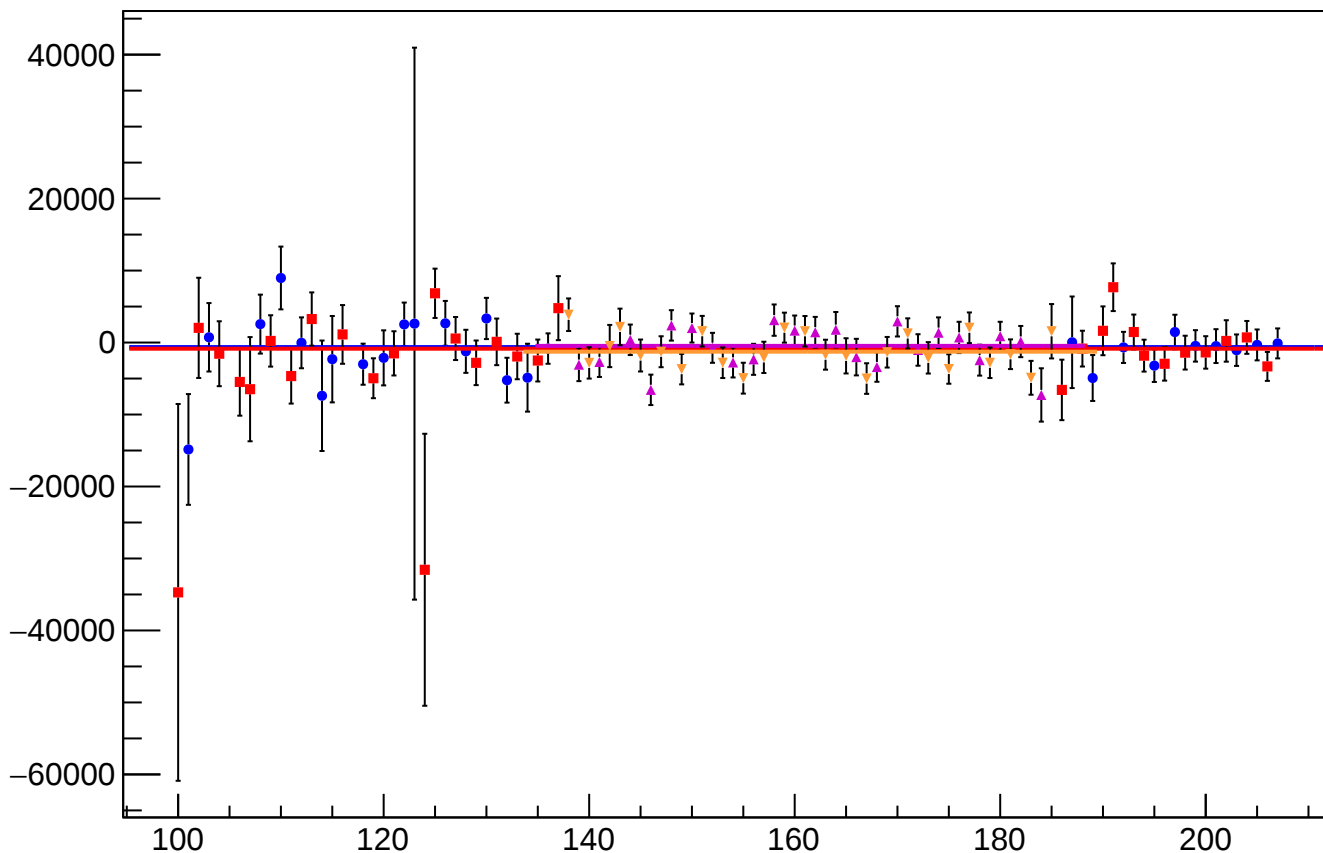
Right: 693.634 $\pm$ 0.099 χ^2 /NDF: 7514635.4/57

In: 480.116 $\pm$ 0.064 χ^2 /NDF: 6375793.8/49

Out: 481.855 $\pm$ 0.063 χ^2 /NDF: 8070178.7/55

All: 480.999 $\pm$ 0.045 χ^2 /NDF: 14446343.6/100

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -632.343+/-571.552 χ^2/NDF : 21.9/26

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -852.763+/-558.051 χ^2/NDF : 31.8/30

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

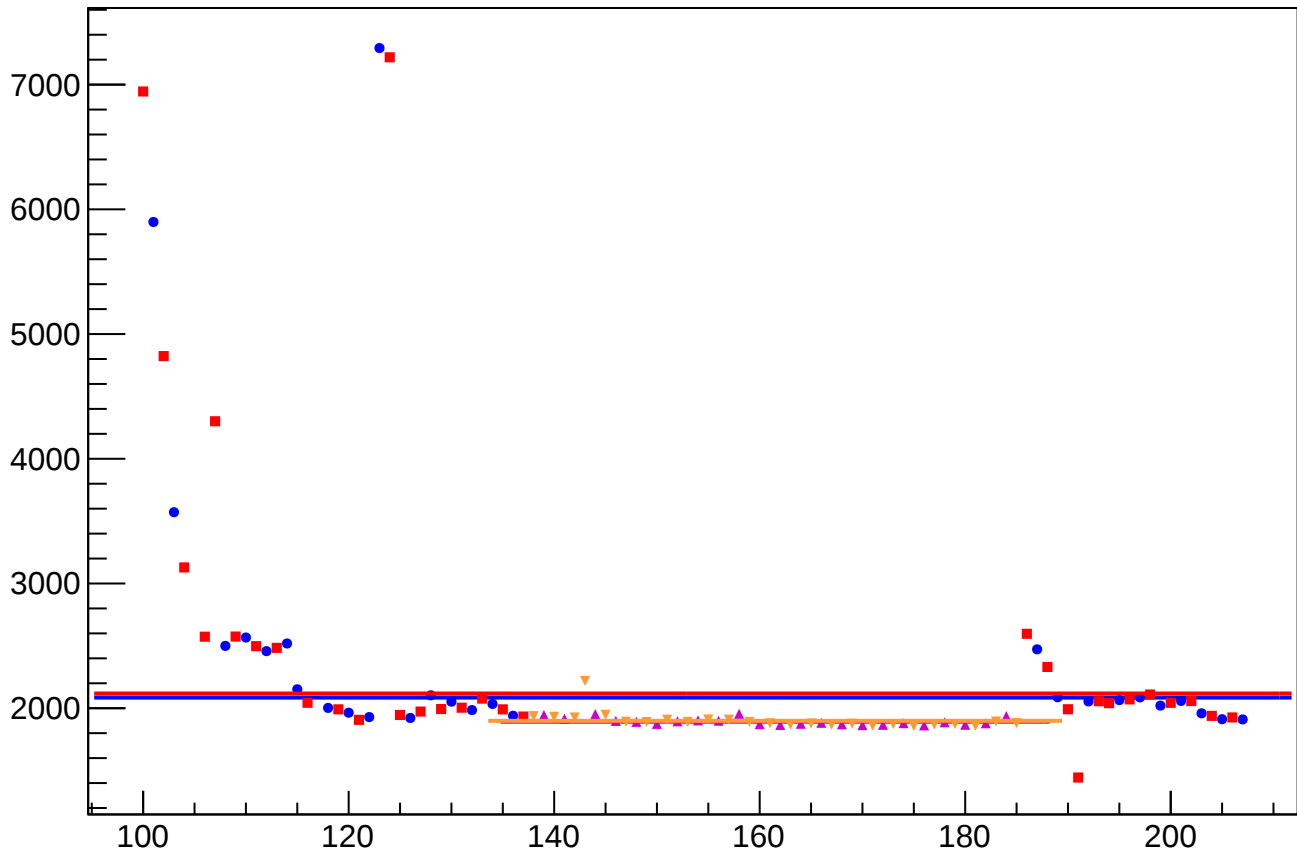
Right: -745.187+/-399.289 χ^2/NDF : 53.8/57

In: -528.257+/-355.470 χ^2/NDF :54.5/49

Out: -1107.315+/-347.071 χ^2/NDF :63.0/55

All: -824.708+/-248.333 χ^2/NDF : 118.8/105

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2085.290+/-0.404 χ^2/NDF : 867888.6/26

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2118.080+/-0.395 χ^2/NDF : 1090972.8/30

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

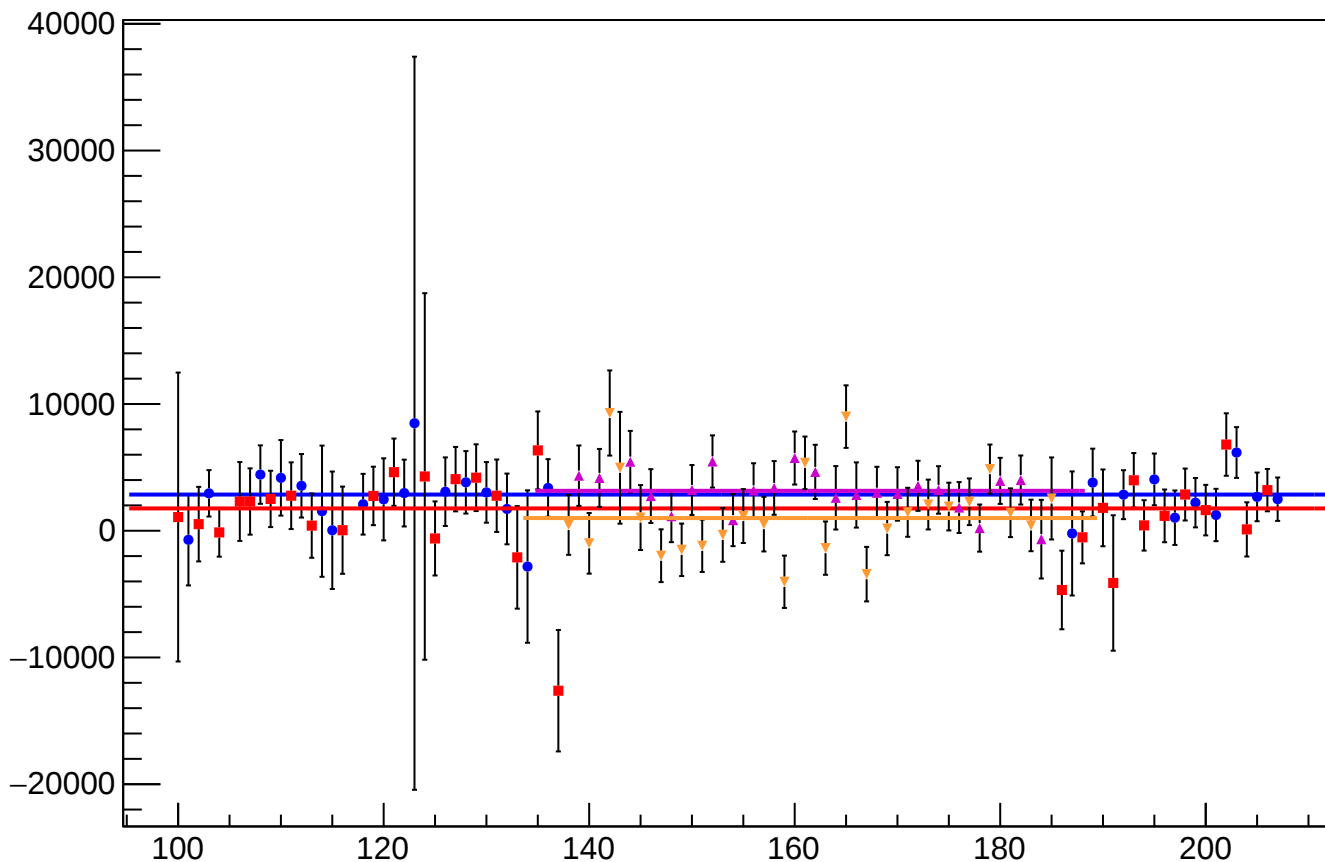
Right: 2102.077+/-0.282 χ^2/NDF : 1962231.4/57

In: 1966.578+/-0.251 χ^2/NDF : 1016016.1/49

Out: 1983.717+/-0.245 χ^2/NDF : 1318731.4/55

All: 1975.352+/-0.176 χ^2/NDF : 2337127.8/100

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2854.532 $\pm$ 475.383 χ^2 /NDF: 8.7/26

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1760.528 $\pm$ 459.596 χ^2 /NDF: 32.2/30

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

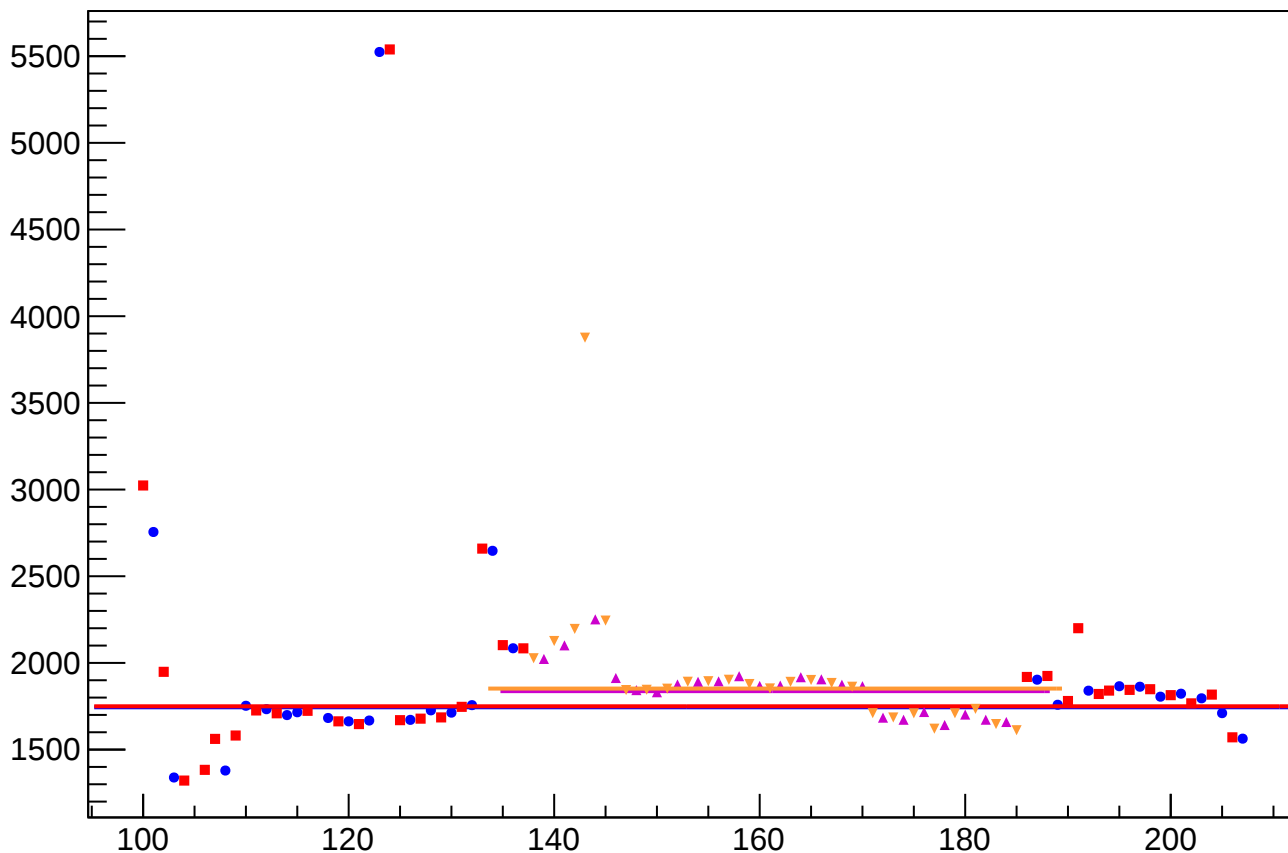
Right: 2289.063 $\pm$ 330.423 χ^2 /NDF: 43.6/57

In: 3013.523 $\pm$ 323.364 χ^2 /NDF:20.7/49

Out: 1360.251 $\pm$ 316.023 χ^2 /NDF:78.2/55

All: 2167.910 $\pm$ 226.013 χ^2 /NDF: 112.4/105

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1744.040 $\pm$ 0.336 χ^2 /NDF: 485737.4/26

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1749.785 $\pm$ 0.325 χ^2 /NDF: 546654.9/30

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

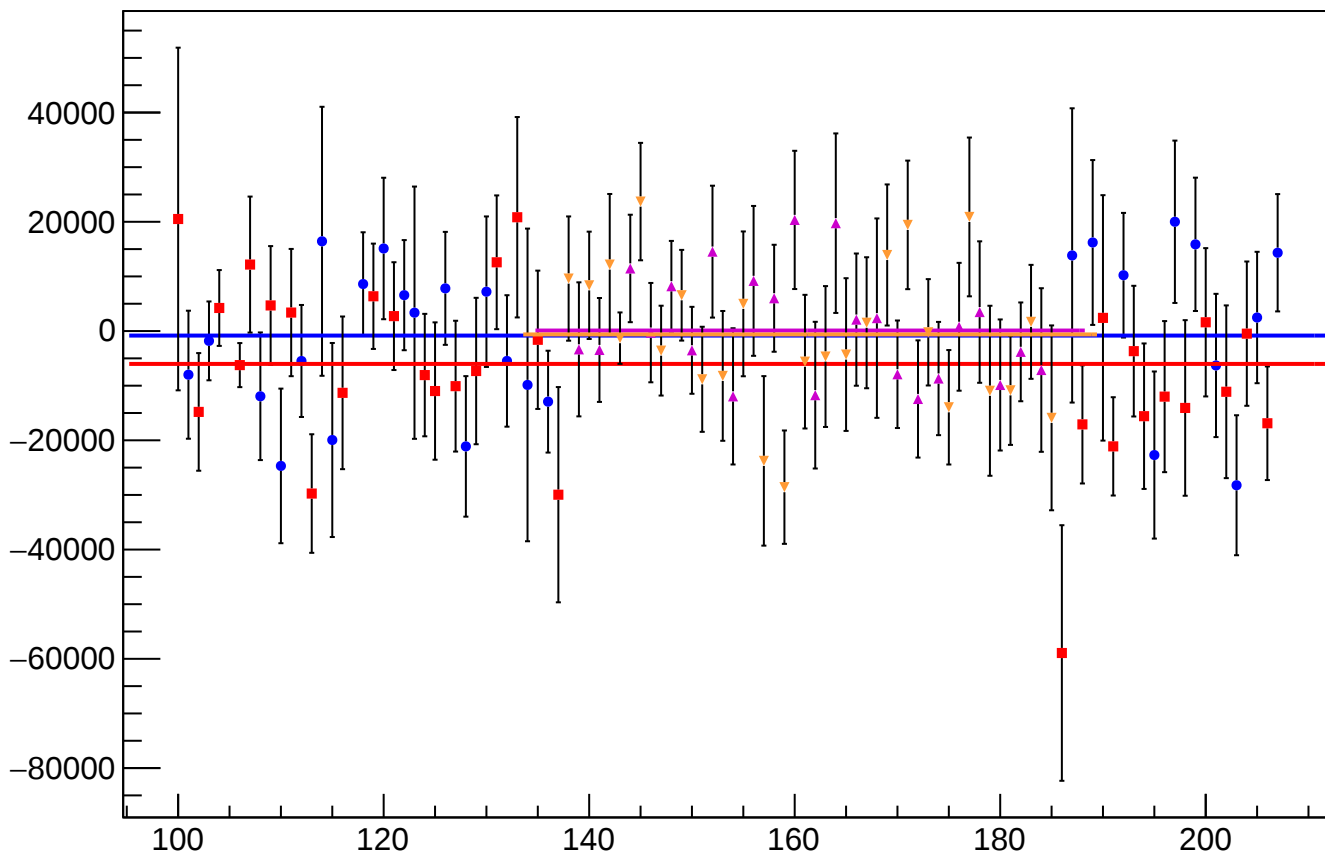
Right: 1747.009 $\pm$ 0.234 χ^2 /NDF: 1032543.3/57

In: 1794.069 $\pm$ 0.229 χ^2 /NDF: 727476.4/49

Out: 1803.650 $\pm$ 0.223 χ^2 /NDF: 1247720.1/55

All: 1798.969 $\pm$ 0.160 χ^2 /NDF: 1976094.5/10

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -827.963 $\pm$ 2365.322 χ^2 /NDF: 29.7/26

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -6016.792 $\pm$ 1942.747 χ^2 /NDF: 32.8/30

Left In: 93.334 $\pm$ 2293.826 χ^2 /NDF:14.6/22

Left: -299.532 $\pm$ 1536.638 χ^2 /NDF: 44.8/47

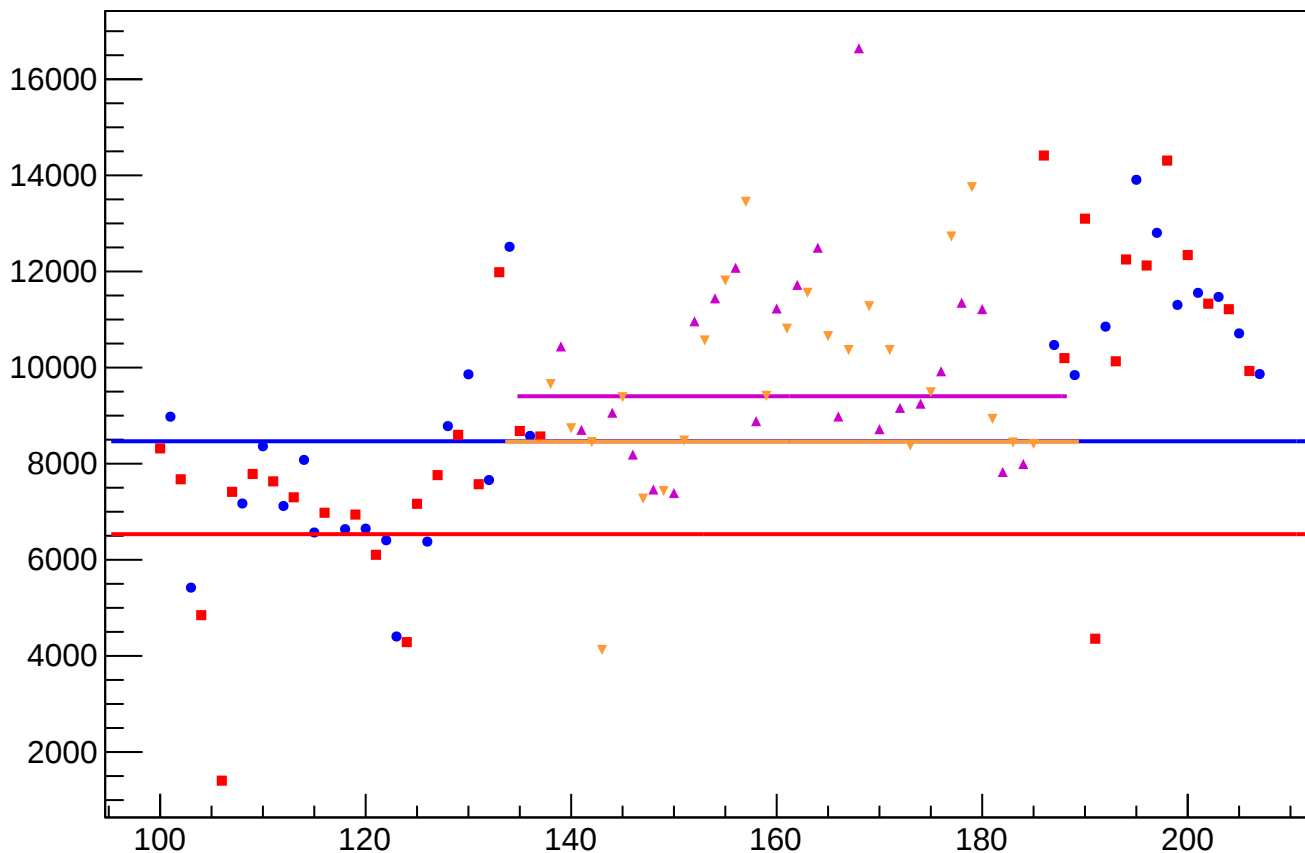
Right: -3926.496 $\pm$ 1501.273 χ^2 /NDF: 65.5/57

In: -353.180 $\pm$ 1646.676 χ^2 /NDF:44.4/49

Out: -3488.667 $\pm$ 1416.481 χ^2 /NDF:66.6/55

All: -2155.231 $\pm$ 1073.845 χ^2 /NDF: 113.1/10

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8466.963+/-1.673

χ^2/NDF : 1825899.1/26

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

Right: 7312.468+/-1.062 χ^2/NDF : 9606433.3/57

Right Out: 6533.635+/-1.374

χ^2/NDF : 6982637.3/30

In: 8949.590+/-1.164 χ^2/NDF : 3130122.2/49

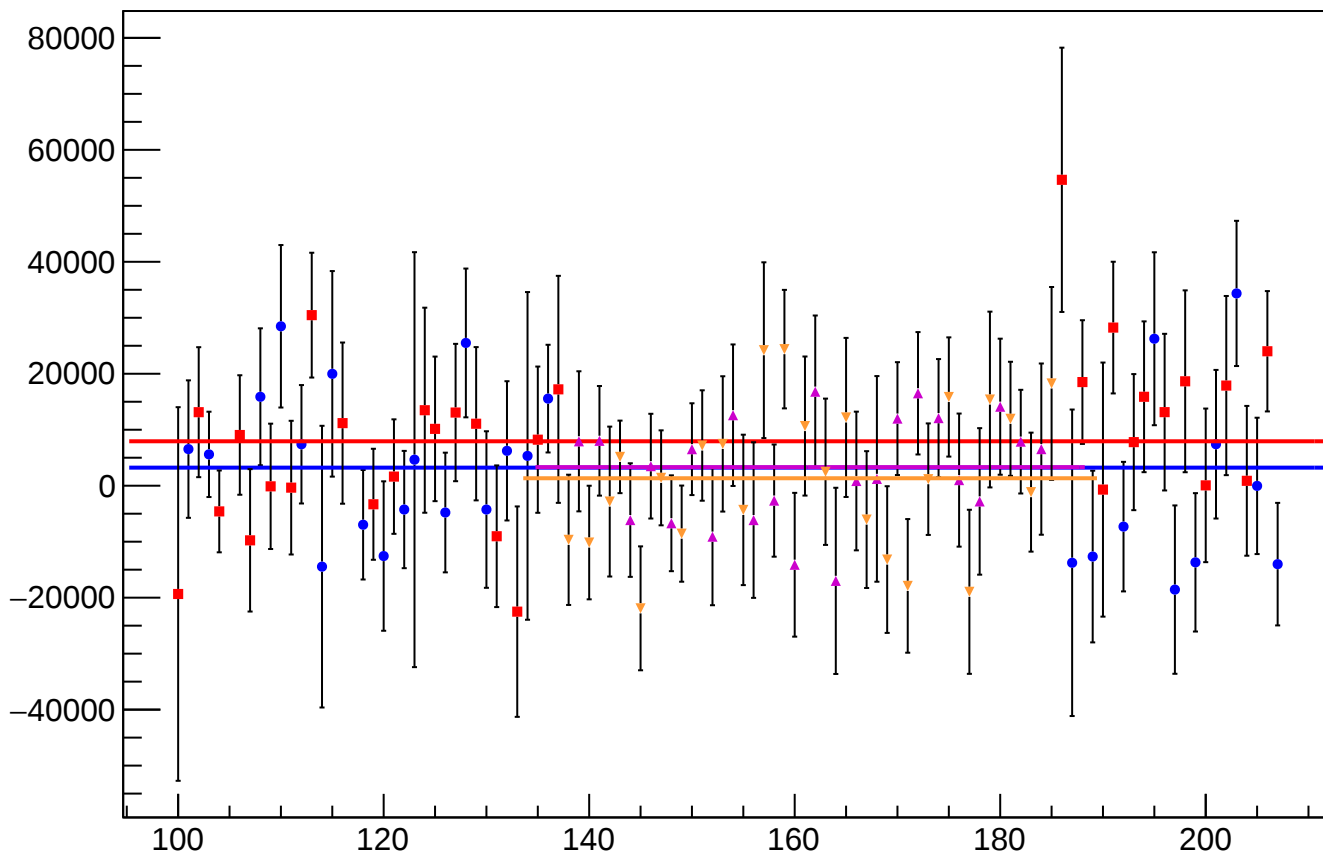
Out: 7435.917+/-1.002 χ^2/NDF : 10990857.4/55

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

All: 8079.640+/-0.759 χ^2/NDF : 15092249.5/1

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3228.618 $\pm$ 2442.956 χ^2 /NDF: 31.0/26

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF: 28.0/24

Right Out: 7936.906 $\pm$ 2283.881 χ^2 /NDF: 29.6/30

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

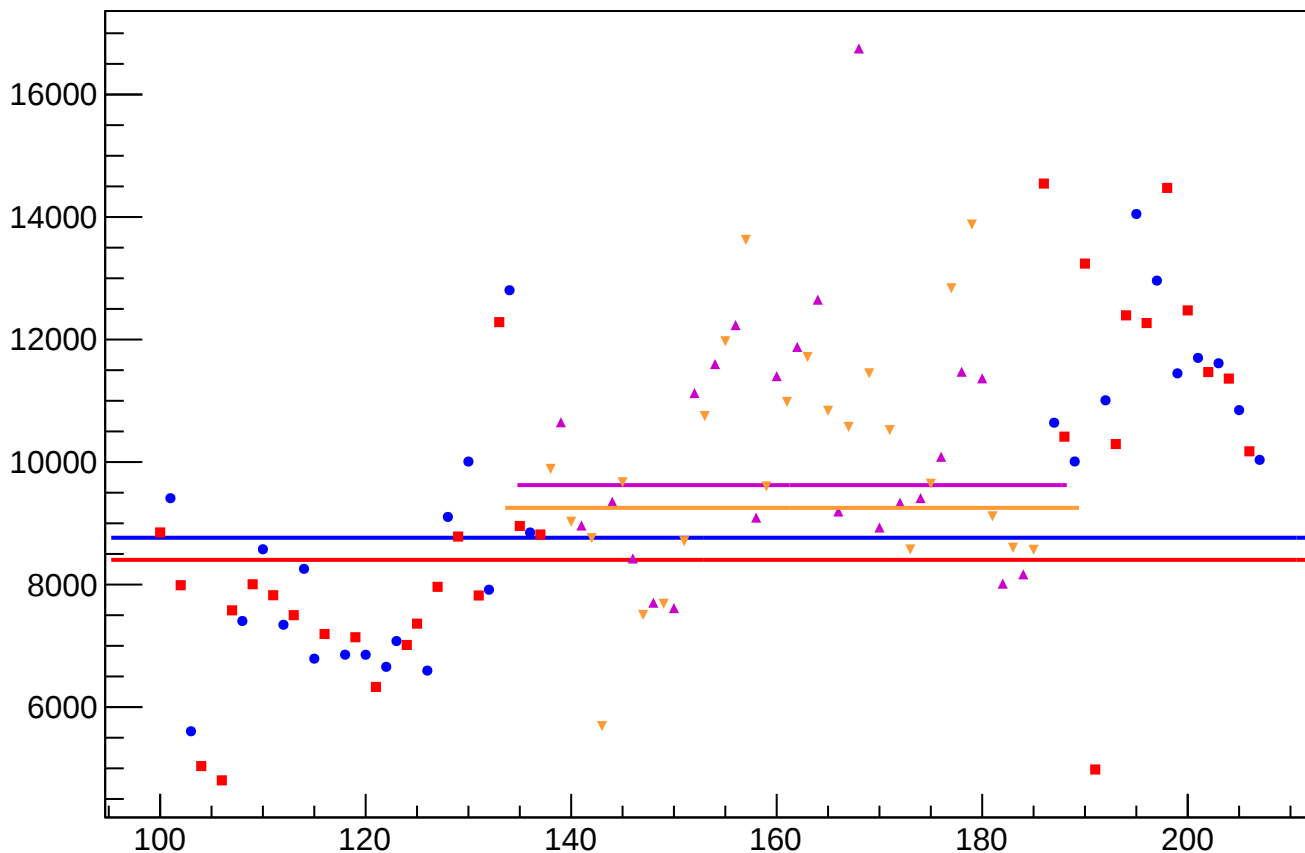
Right: 5741.034 $\pm$ 1668.352 χ^2 /NDF: 62.6/57

In: 3274.577 $\pm$ 1691.564 χ^2 /NDF: 44.7/49

Out: 4531.891 $\pm$ 1589.566 χ^2 /NDF: 62.0/55

All: 3942.282 $\pm$ 1158.374 χ^2 /NDF: 107.0/105

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8764.495 ± 1.727 $\chi^2/\text{NDF}: 1645411.3/26$

Left Out: 9252.712 ± 1.565 $\chi^2/\text{NDF}: 1597668.9/24$

Right Out: 8403.499 ± 1.615 $\chi^2/\text{NDF}: 2455421.7/30$

Left In: 9623.485 ± 1.658 $\chi^2/\text{NDF}: 1069924.0/22$

Left: 9427.467 ± 1.138 $\chi^2/\text{NDF}: 2694036.4/47$

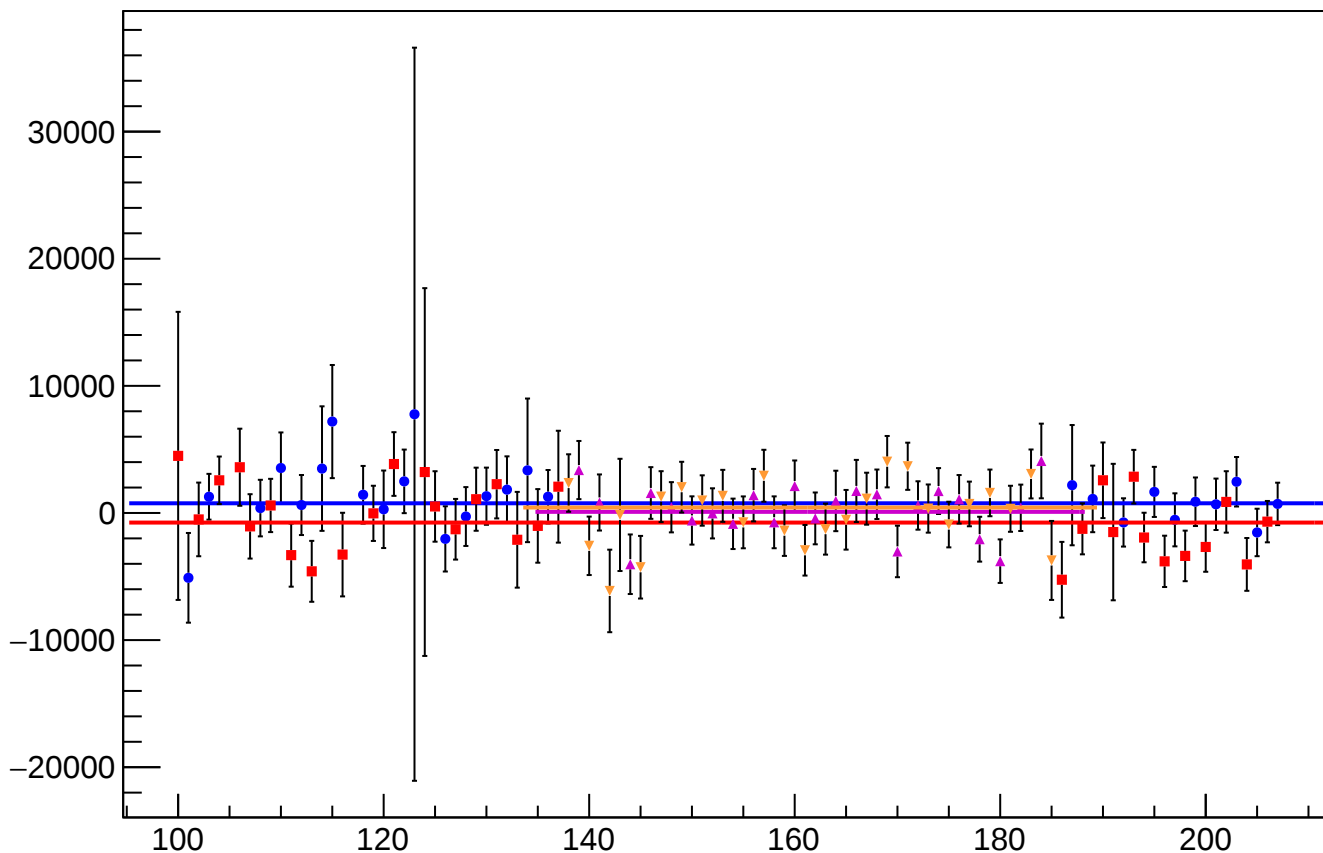
Right: 8571.846 ± 1.180 $\chi^2/\text{NDF}: 4124139.9/57$

In: 9211.633 ± 1.196 $\chi^2/\text{NDF}: 2844054.7/49$

Out: 8841.303 ± 1.124 $\chi^2/\text{NDF}: 4195674.6/55$

All: 9014.959 ± 0.819 $\chi^2/\text{NDF}: 7090638.6/10$

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 761.798 $\pm$ 457.600 χ^2 /NDF: 12.4/26

Left Out: 429.447 $\pm$ 416.378 χ^2 /NDF: 28.7/24

Right Out: -755.150 $\pm$ 442.961 χ^2 /NDF: 31.1/30

Left In: 88.373 $\pm$ 421.957 χ^2 /NDF: 21.0/22

Left: 261.180 $\pm$ 296.376 χ^2 /NDF: 50.0/47

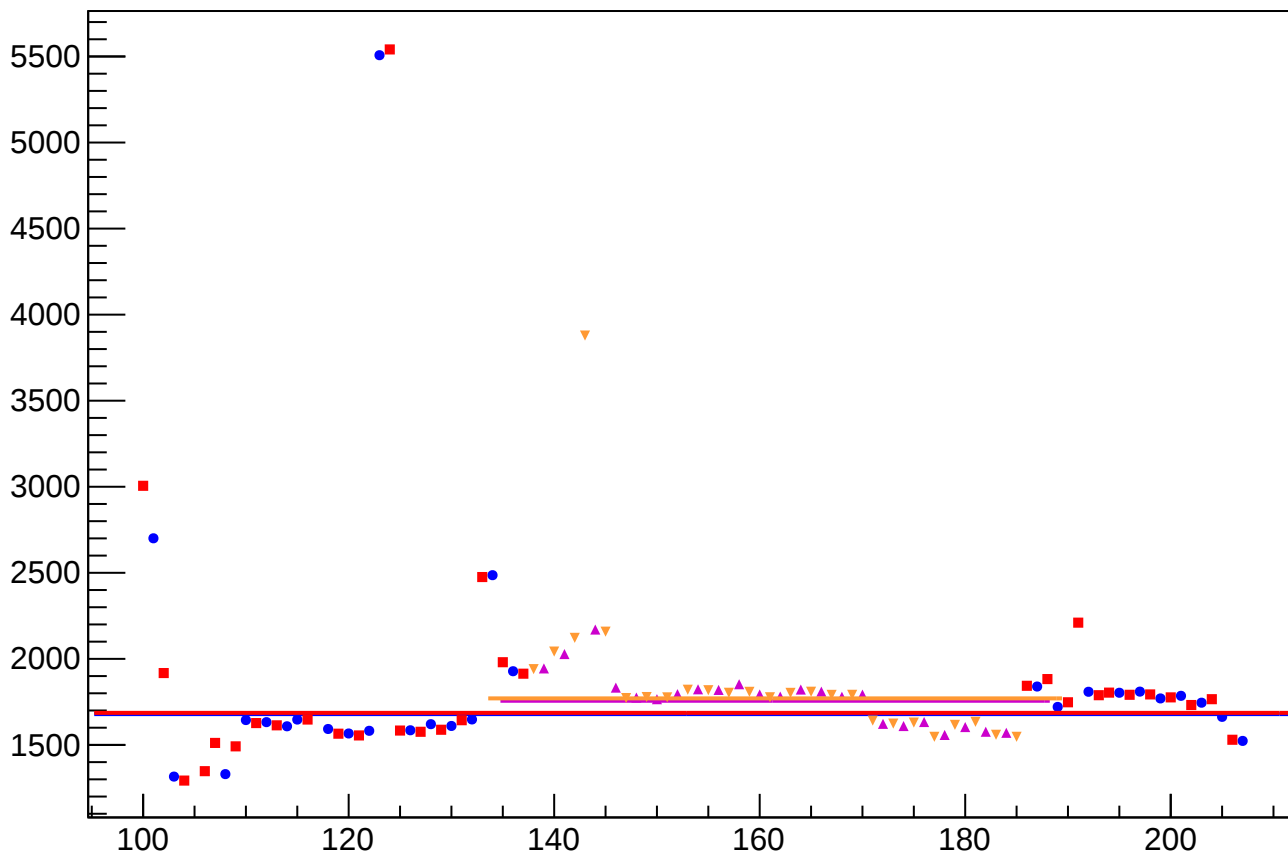
Right: -21.329 $\pm$ 318.270 χ^2 /NDF: 49.2/57

In: 397.840 $\pm$ 310.205 χ^2 /NDF: 34.5/49

Out: -126.242 $\pm$ 303.386 χ^2 /NDF: 63.6/55

All: 129.975 $\pm$ 216.897 χ^2 /NDF: 99.6/105

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1679.016 $\pm$ 0.324 χ^2 /NDF: 476487.7/26

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1686.289 $\pm$ 0.313 χ^2 /NDF: 555668.3/30

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

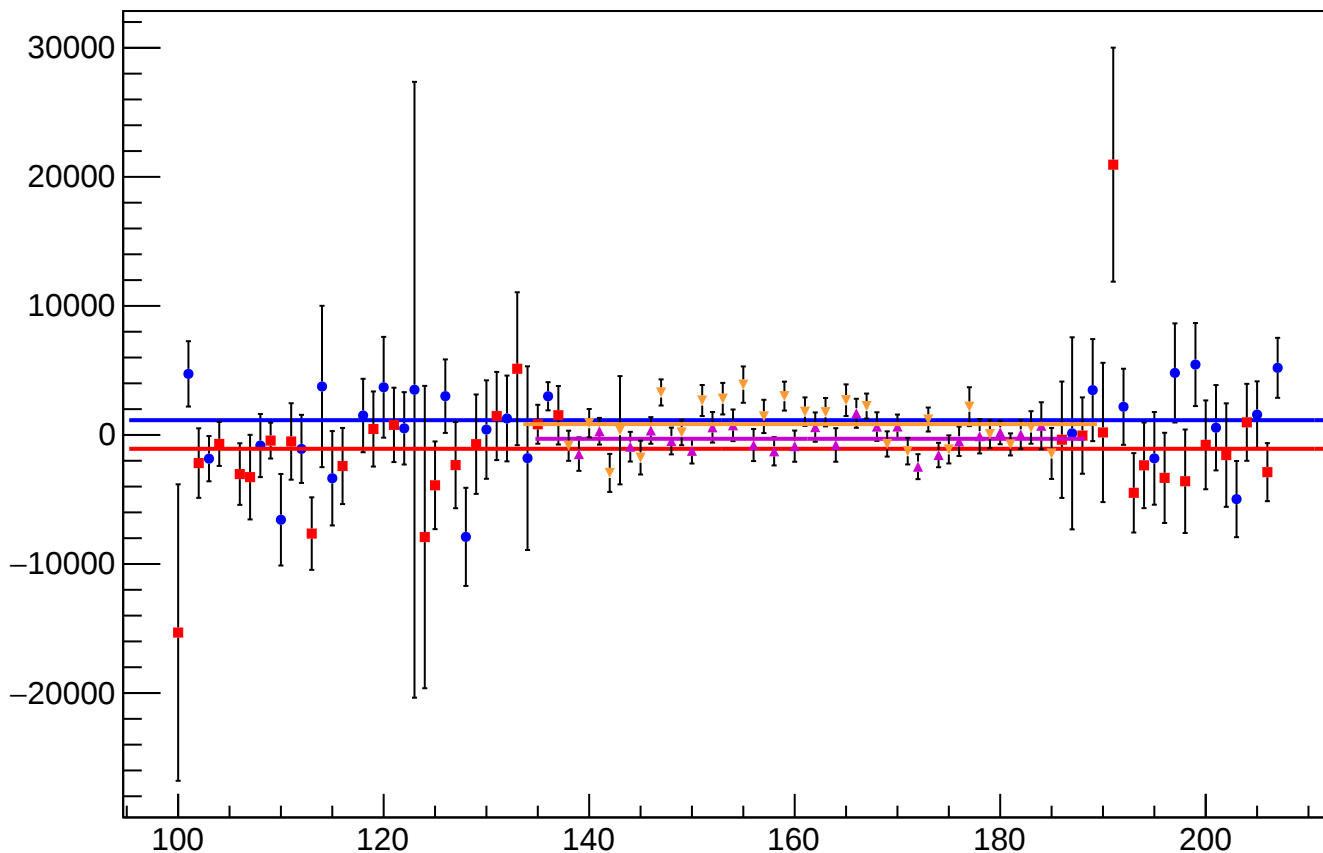
Right: 1682.771 $\pm$ 0.225 χ^2 /NDF: 1032416.9/57

In: 1720.960 $\pm$ 0.219 χ^2 /NDF: 730655.1/49

Out: 1730.935 $\pm$ 0.215 χ^2 /NDF: 1293474.7/55

All: 1726.058 $\pm$ 0.153 χ^2 /NDF: 2025187.0/100

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1144.710 $\pm$ 536.193 χ^2 /NDF: 33.6/26

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF:54.4/24

Right Out: -1072.707 $\pm$ 507.978 χ^2 /NDF: 24.7/30

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF:18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

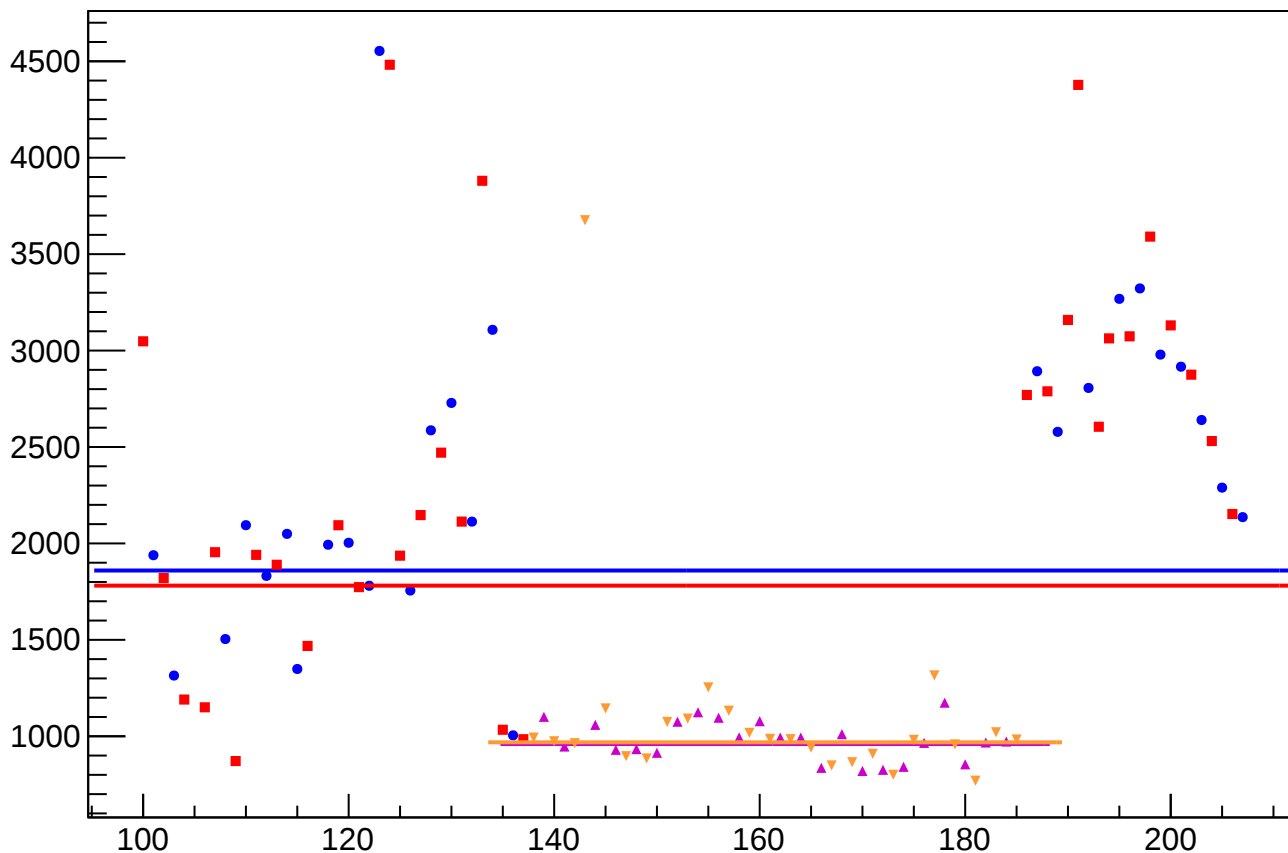
Right: -23.873 $\pm$ 368.766 χ^2 /NDF: 67.3/57

In: -72.165 $\pm$ 212.459 χ^2 /NDF:58.1/49

Out: 512.957 $\pm$ 209.875 χ^2 /NDF:90.8/55

All: 223.976 $\pm$ 149.309 χ^2 /NDF: 152.7/105

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1859.530+/-0.379 χ^2/NDF : 3375007.6/26

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1781.078+/-0.359 χ^2/NDF : 4908949.7/30

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

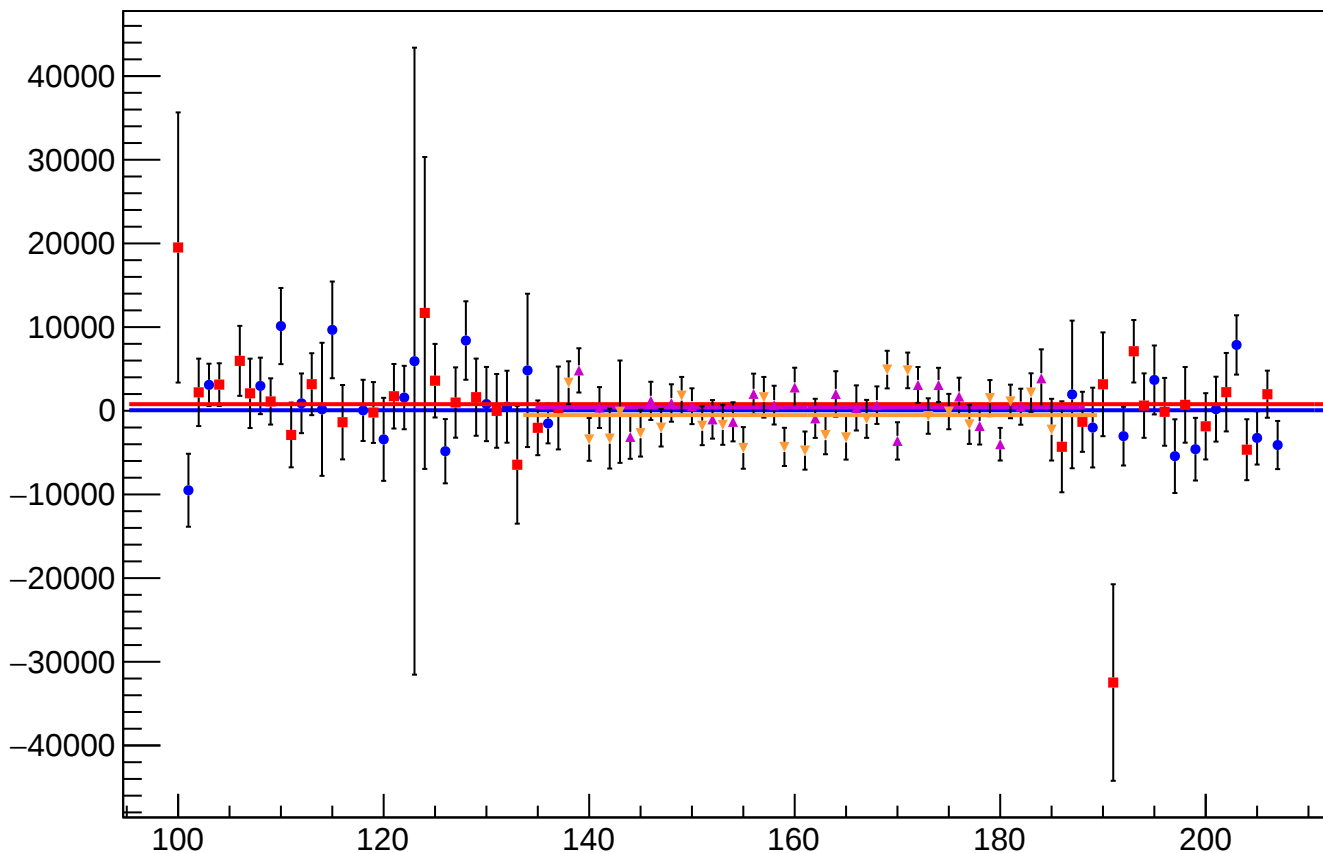
Right: 1818.186+/-0.261 χ^2/NDF : 8306520.4/57

In: 1101.064+/-0.150 χ^2/NDF : 8493371.6/49

Out: 1107.383+/-0.148 χ^2/NDF : 10544511.2/55

All: 1104.262+/-0.106 χ^2/NDF : 19038777.9/100

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 63.830 ± 756.633 χ^2/NDF : 33.8/26

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 789.496 ± 731.756 χ^2/NDF : 23.5/30

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

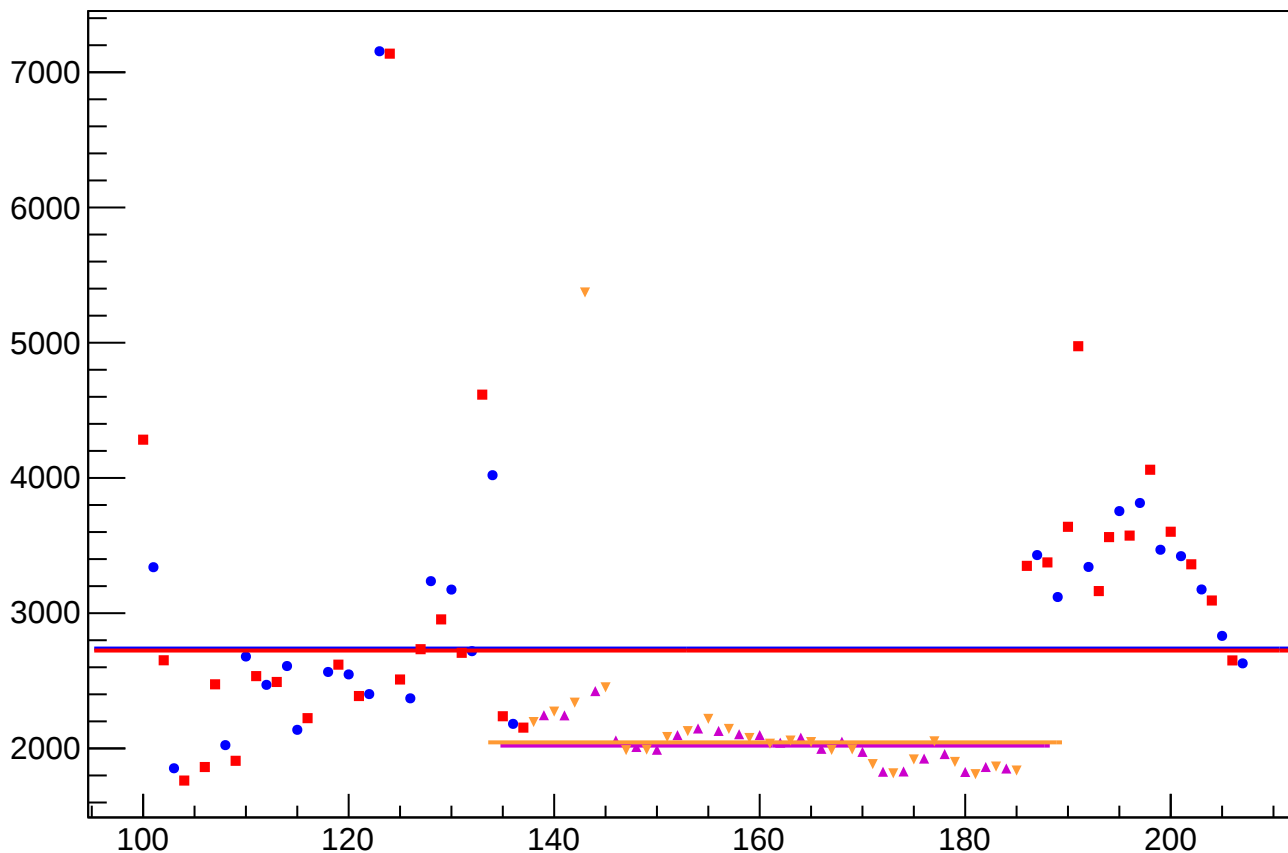
Right: 438.789 ± 526.004 χ^2/NDF : 57.8/57

In: 300.243 ± 408.345 χ^2/NDF : 55.7/49

Out: -122.760 ± 402.225 χ^2/NDF : 59.8/55

All: 85.547 ± 286.555 χ^2/NDF : 116.1/105

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2738.386 $\pm$ 0.535 χ^2 /NDF: 1164654.8/26

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2723.797 $\pm$ 0.517 χ^2 /NDF: 1713834.4/30

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

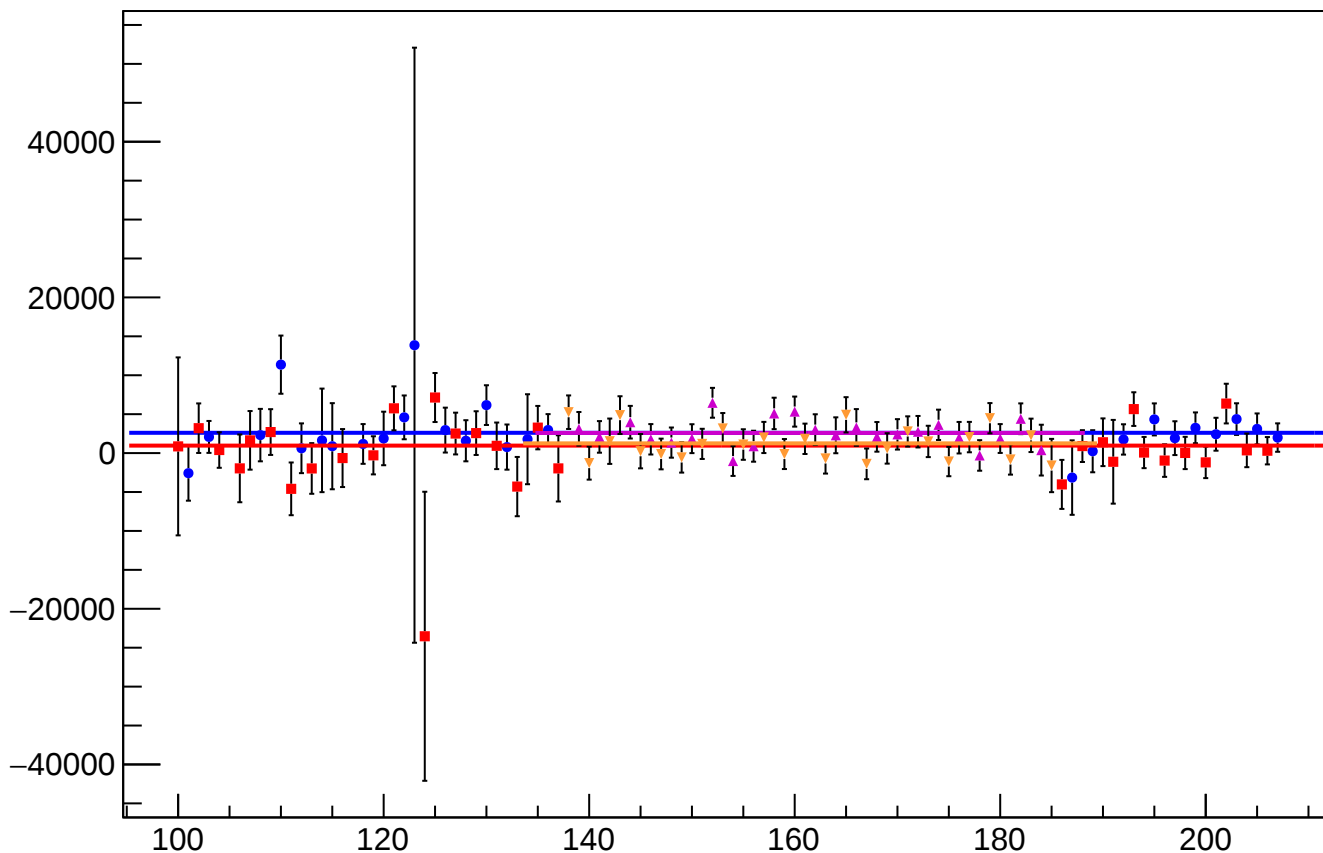
Right: 2730.848 $\pm$ 0.372 χ^2 /NDF: 2878873.5/57

In: 2229.807 $\pm$ 0.289 χ^2 /NDF: 2613105.8/49

Out: 2249.898 $\pm$ 0.284 χ^2 /NDF: 3704539.6/55

All: 2240.004 $\pm$ 0.203 χ^2 /NDF: 6320102.5/100

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2606.684 $\pm$ 502.049 χ^2 /NDF: 16.0/26

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 961.612 $\pm$ 490.314 χ^2 /NDF: 32.0/30

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

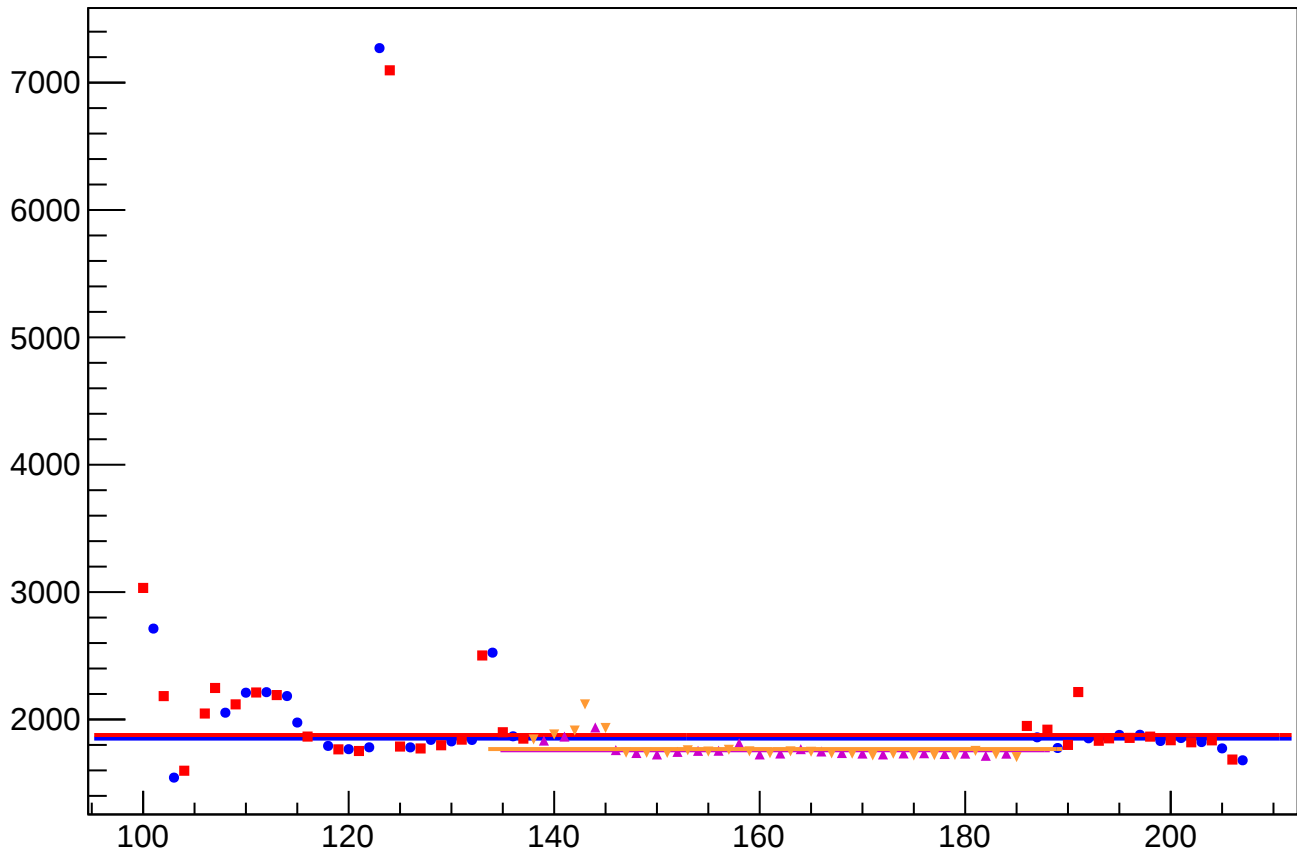
Right: 1764.697 $\pm$ 350.780 χ^2 /NDF: 53.5/57

In: 2595.101 $\pm$ 322.819 χ^2 /NDF:33.4/49

Out: 1130.435 $\pm$ 315.645 χ^2 /NDF:55.2/55

All: 1846.313 $\pm$ 225.688 χ^2 /NDF: 99.2/105

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1849.738 $\pm$ 0.355 χ^2 /NDF: 317496.5/26

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1877.825 $\pm$ 0.346 χ^2 /NDF: 409071.4/30

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

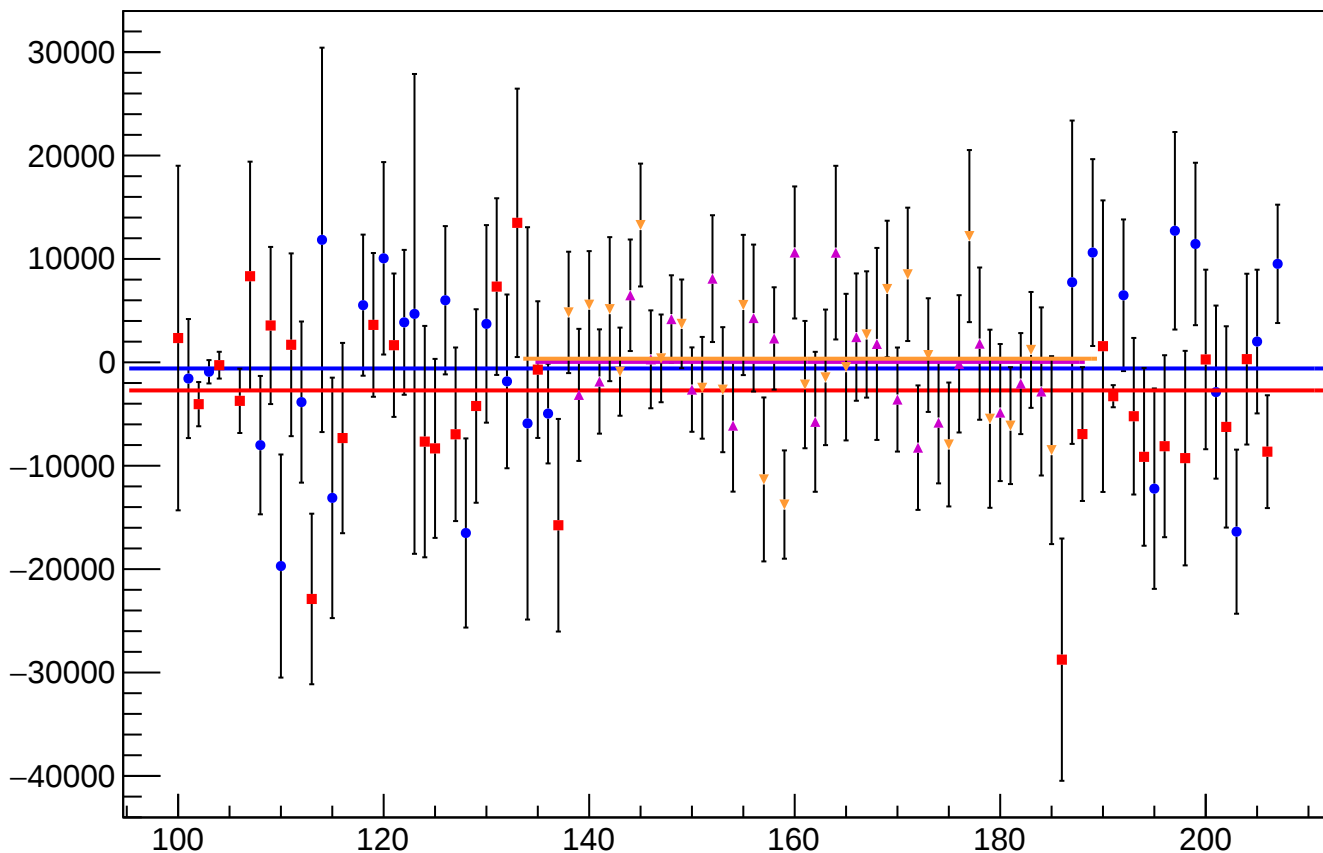
Right: 1864.123 $\pm$ 0.248 χ^2 /NDF: 729773.8/57

In: 1795.974 $\pm$ 0.228 χ^2 /NDF: 386406.1/49

Out: 1813.268 $\pm$ 0.223 χ^2 /NDF: 546069.6/55

All: 1804.818 $\pm$ 0.160 χ^2 /NDF: 935411.1/105

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -592.936+/-918.902 χ^2/NDF : 29.6/26

Left Out: 351.227+/-1170.051 χ^2/NDF : 27.8/24

Right Out: -2717.174+/-680.160 χ^2/NDF : 27.8/30

Left In: 40.618+/-1207.491 χ^2/NDF : 16.0/22

Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

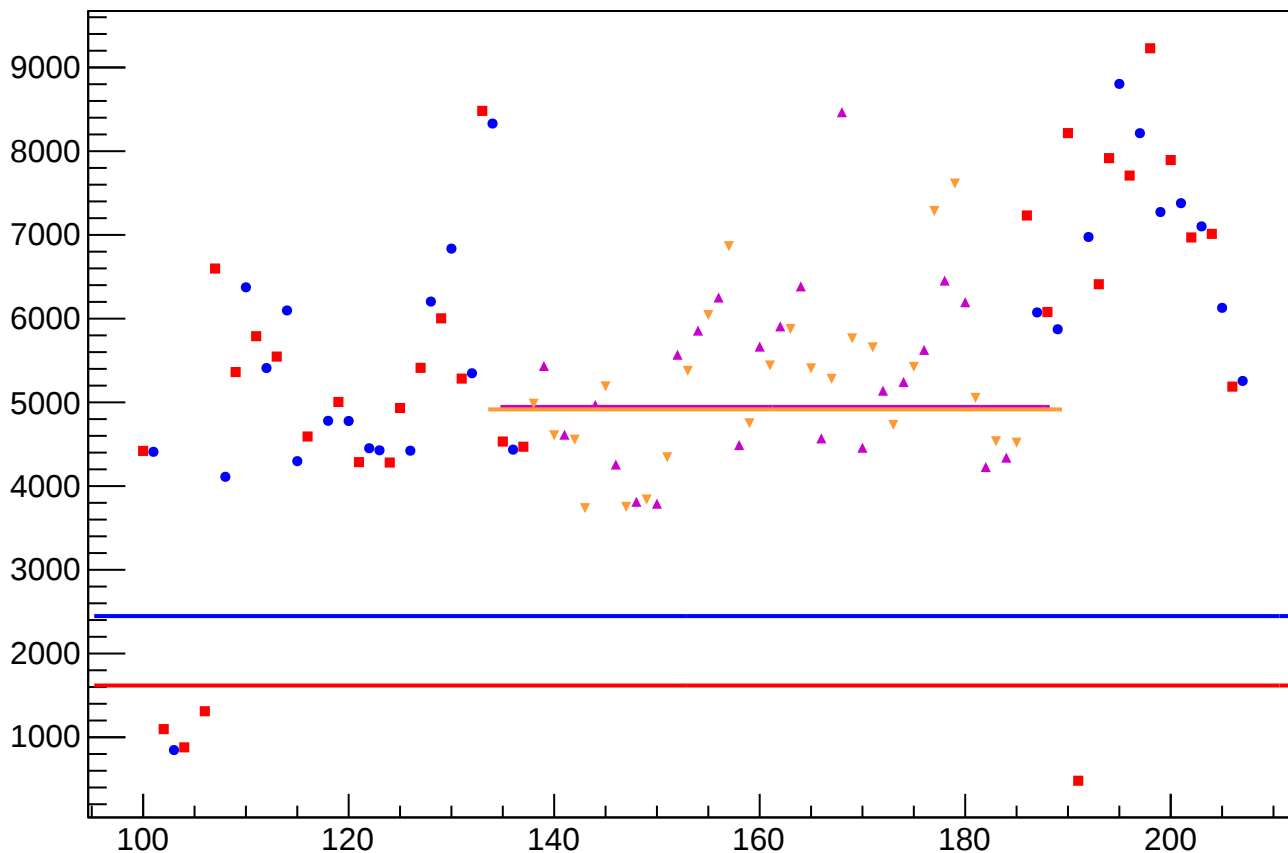
Right: -1965.291+/-546.692 χ^2/NDF : 60.9/57

In: -360.588+/-731.242 χ^2/NDF : 45.8/49

Out: -1942.187+/-588.026 χ^2/NDF : 60.8/55

All: -1321.082+/-458.243 χ^2/NDF : 109.4/105

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2447.293 $\pm$ 0.650

χ^2 /NDF: 13202866.1/26

Left: 4930.370 $\pm$ 0.594

χ^2 /NDF: 2375402.9/47

Left Out: 4915.865 $\pm$ 0.827

χ^2 /NDF: 1186479.7/24

Right: 1911.574 $\pm$ 0.387

χ^2 /NDF: 31969237.4/57

Right Out: 1618.065 $\pm$ 0.481

χ^2 /NDF: 17714161.7/30

In: 3363.594 $\pm$ 0.517

χ^2 /NDF: 19813825.3/49

Out: 2450.992 $\pm$ 0.416

χ^2 /NDF: 30775787.3/55

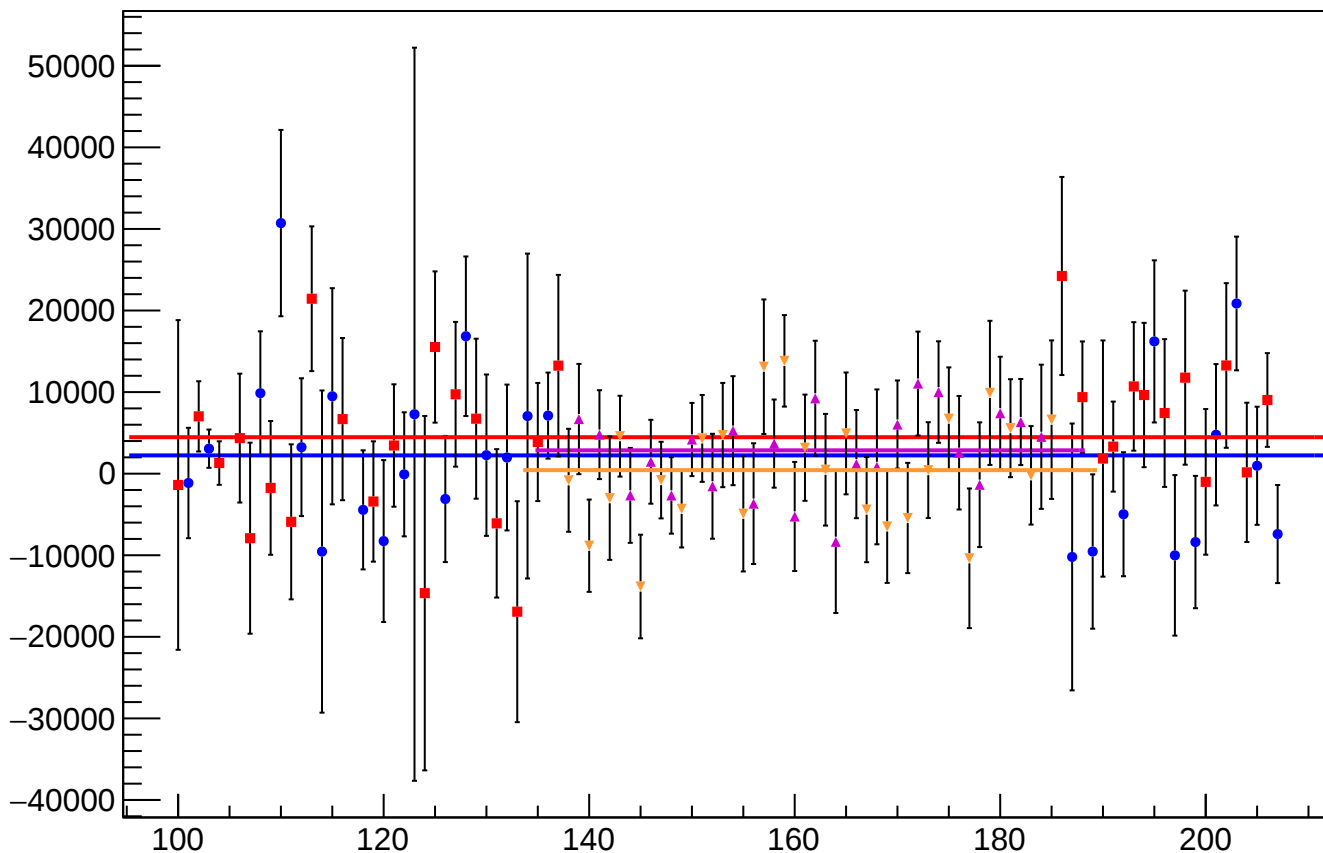
Left In: 4945.817 $\pm$ 0.854

χ^2 /NDF: 1188288.6/22

All: 2809.377 $\pm$ 0.324

χ^2 /NDF: 52481383.5/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2241.175+/-1374.923 χ^2/NDF : 30.1/26

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4470.674+/-1325.918 χ^2/NDF : 23.5/30

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

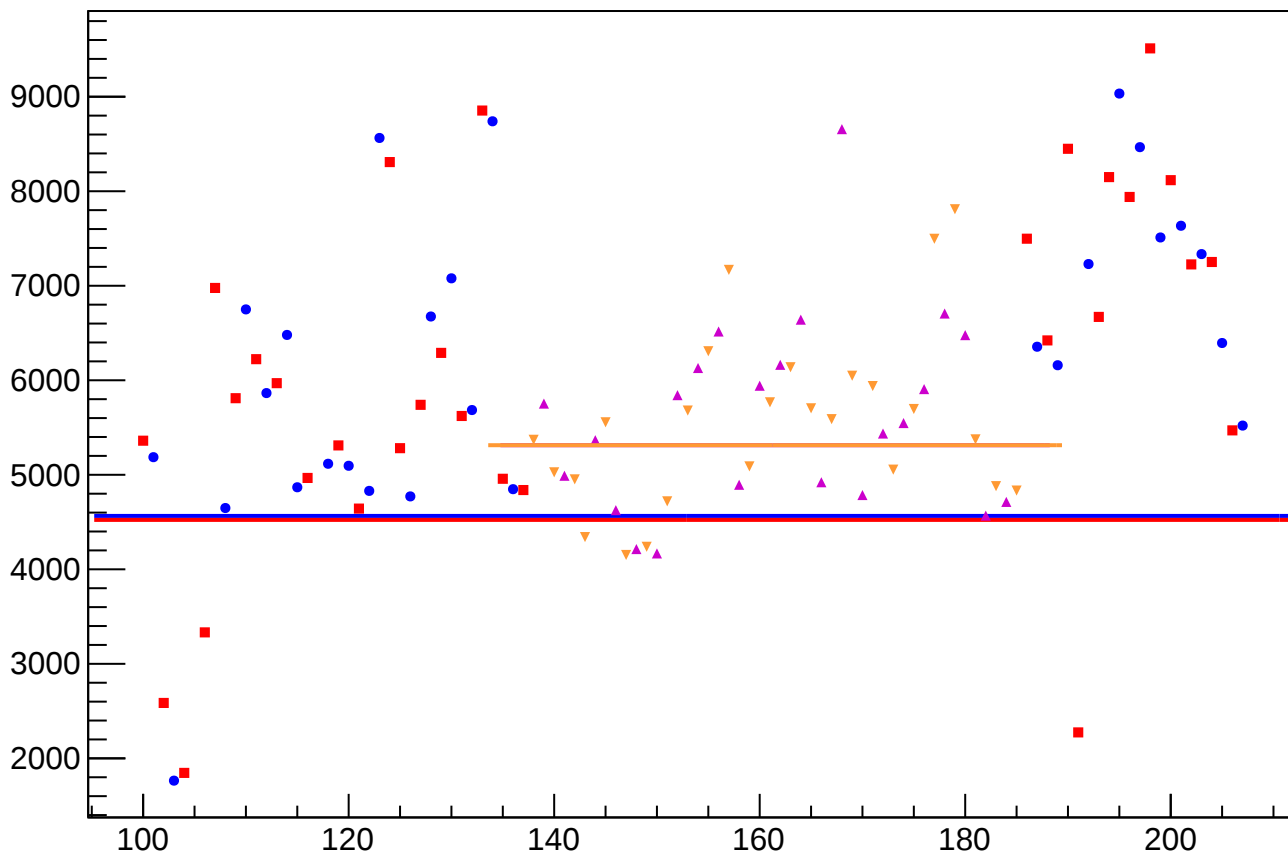
Right: 3396.364+/-954.420 χ^2/NDF : 54.9/57

In: 2569.865+/-941.660 χ^2/NDF : 43.1/49

Out: 2345.092+/-912.711 χ^2/NDF : 55.5/55

All: 2453.970+/-655.379 χ^2/NDF : 98.6/105

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4564.899 ± 0.972 $\chi^2/\text{NDF}: 5362235.6/26$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 4522.766 ± 0.933 $\chi^2/\text{NDF}: 5869727.2/30$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

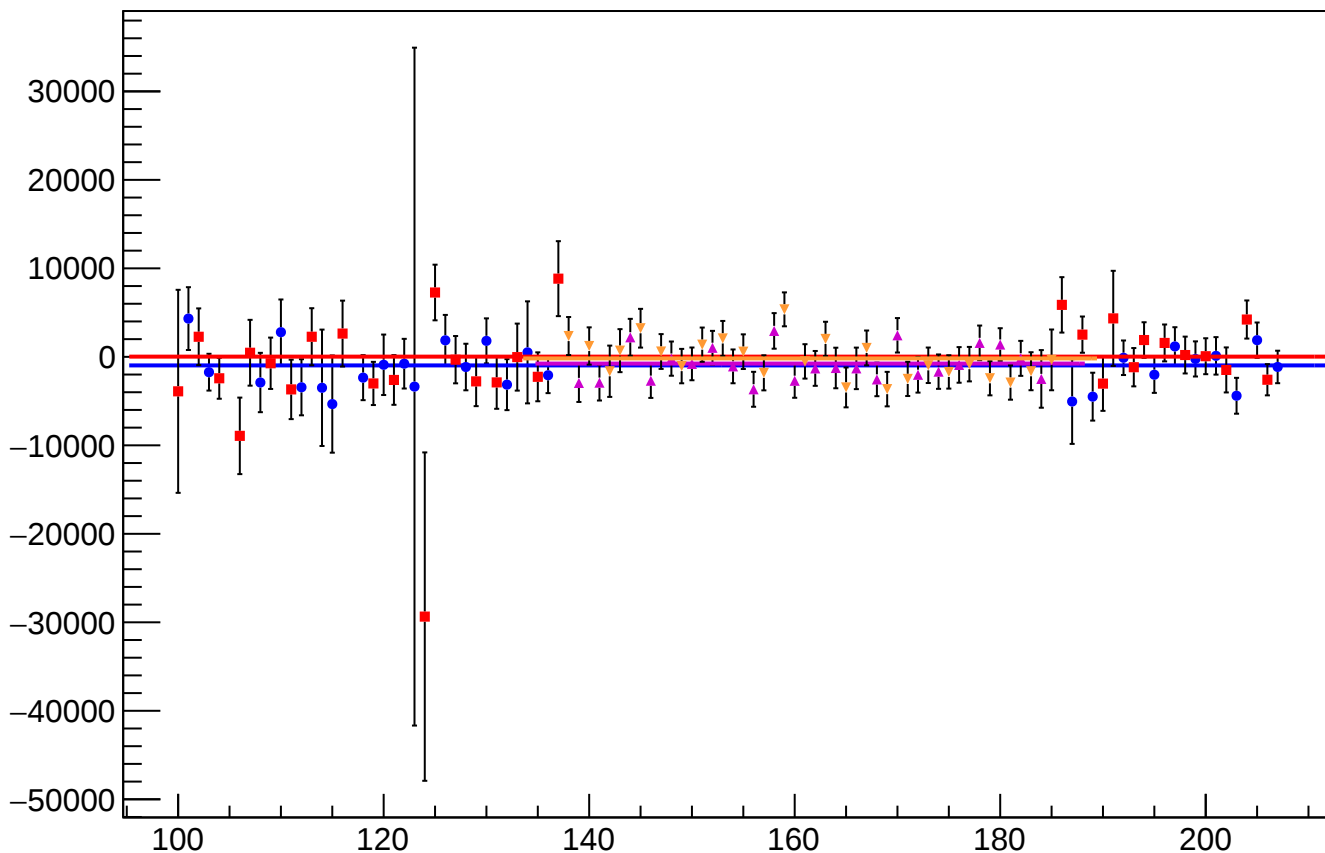
Right: 4542.972 ± 0.673 $\chi^2/\text{NDF}: 11232940.1/57$

In: 4962.019 ± 0.666 $\chi^2/\text{NDF}: 6633886.2/49$

Out: 4936.764 ± 0.644 $\chi^2/\text{NDF}: 7139683.1/55$

All: 4948.970 ± 0.463 $\chi^2/\text{NDF}: 13774312.6/102$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -968.554+/-501.663 χ^2/NDF : 17.7/26

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 24.330+/-490.001 χ^2/NDF : 40.2/30

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

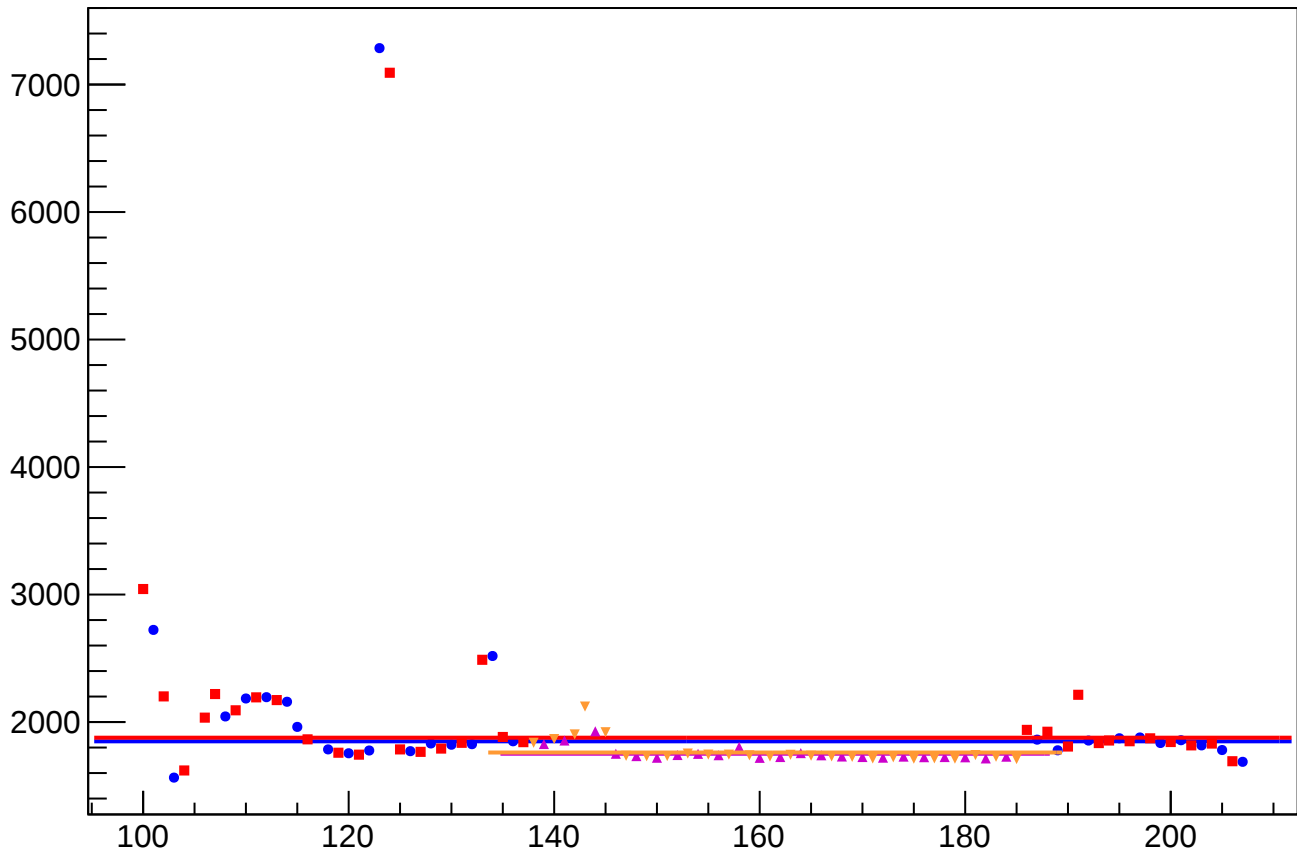
Right: -460.437+/-350.533 χ^2/NDF : 59.9/57

In: -845.775+/-321.994 χ^2/NDF : 38.1/49

Out: -95.499+/-314.884 χ^2/NDF : 69.5/55

All: -462.261+/-225.128 χ^2/NDF : 110.4/105

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1848.790+/-0.355 χ^2/NDF : 304799.7/26

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1877.315+/-0.346 χ^2/NDF : 394358.3/30

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

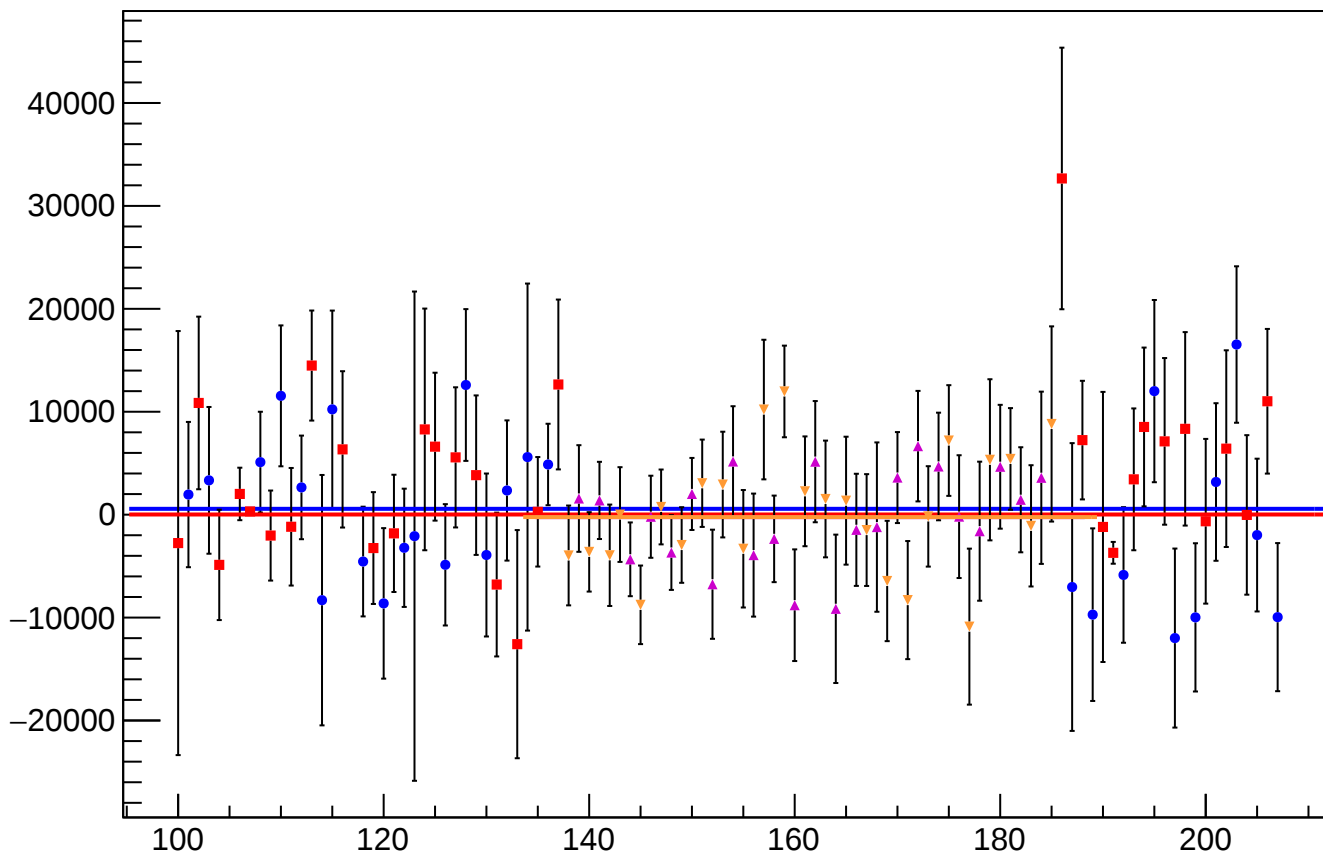
Right: 1863.398+/-0.248 χ^2/NDF : 702469.7/57

In: 1791.533+/-0.228 χ^2/NDF : 377685.0/49

Out: 1809.126+/-0.223 χ^2/NDF : 537934.7/55

All: 1800.528+/-0.159 χ^2/NDF : 918672.5/105

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 567.118+/-1339.456 χ^2/NDF : 28.9/26

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: 15.847+/-411.099 χ^2/NDF : 45.6/30

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

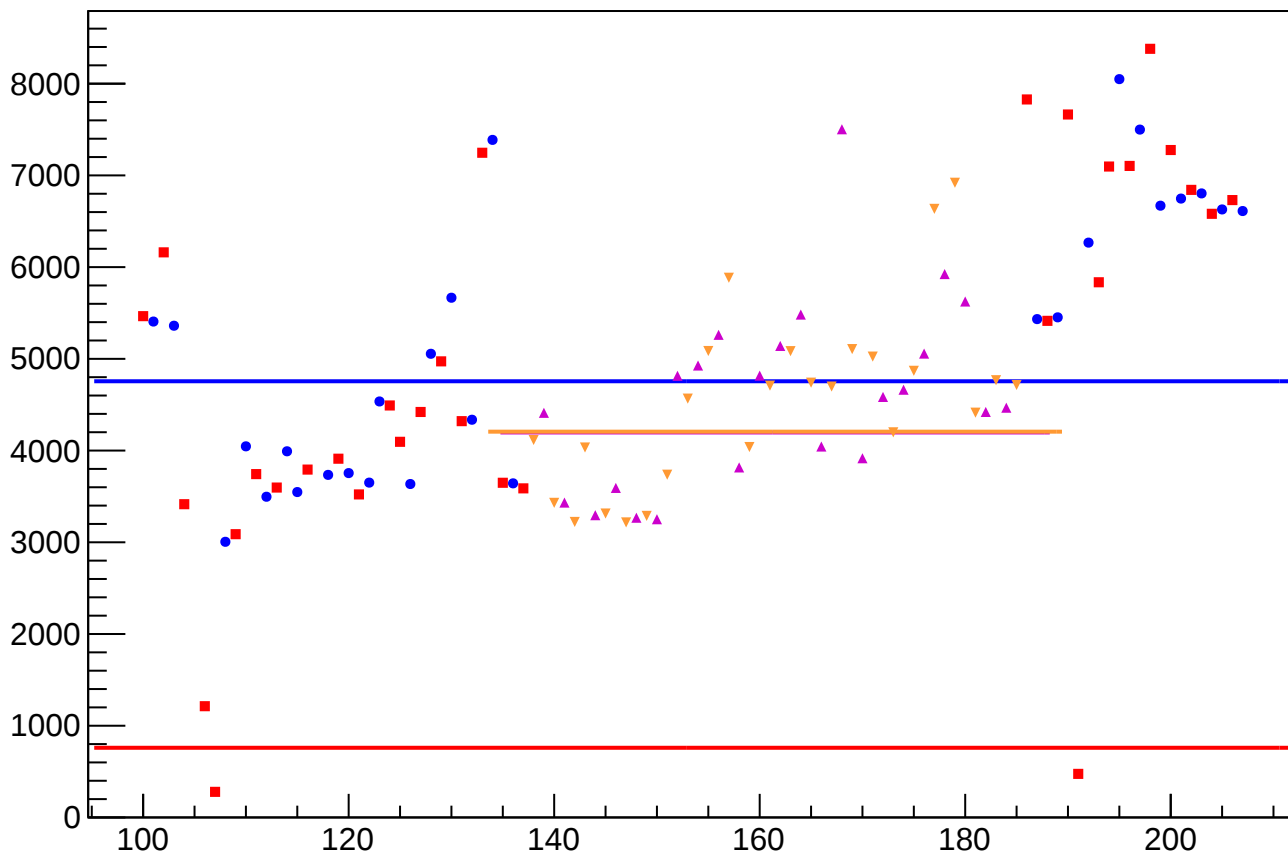
Right: 63.304+/-393.005 χ^2/NDF : 74.6/57

In: 59.995+/-815.949 χ^2/NDF : 44.4/49

Out: -20.217+/-380.504 χ^2/NDF : 74.5/55

All: -5.889+/-344.850 χ^2/NDF : 118.9/105

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4755.612 $\pm$ 0.947 χ^2 /NDF: 2256747.9/26

Left Out: 4206.076 $\pm$ 0.711 χ^2 /NDF:1442269.3/24

Right Out: 759.705 $\pm$ 0.291 χ^2 /NDF: 22754966.9/30

Left In: 4197.267 $\pm$ 0.728 χ^2 /NDF:1471012.9/22

Left: 4201.775 $\pm$ 0.508 χ^2 /NDF: 2913357.2/47

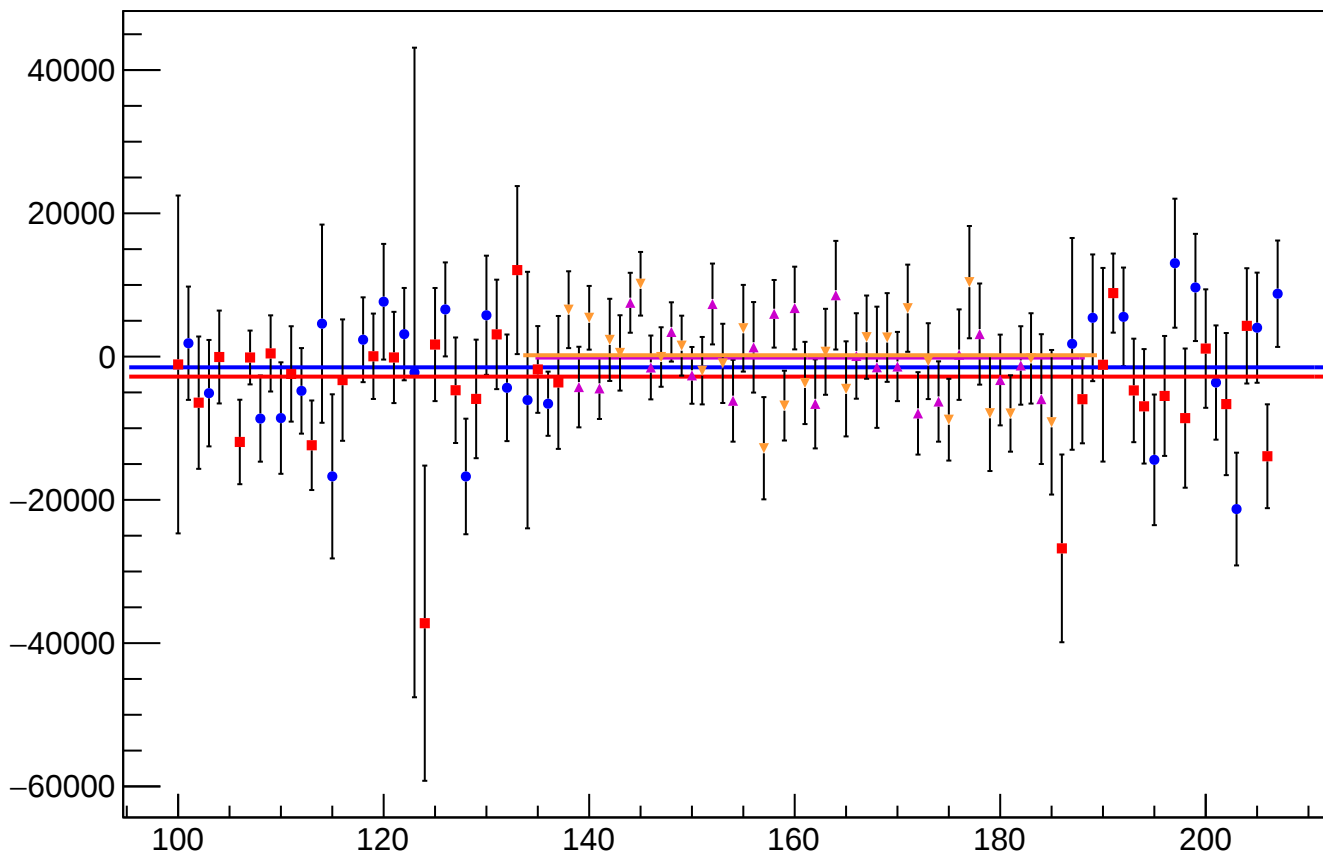
Right: 1103.703 $\pm$ 0.278 χ^2 /NDF: 41278743.7/57

In: 4404.459 $\pm$ 0.577 χ^2 /NDF:3946321.3/49

Out: 1253.589 $\pm$ 0.269 χ^2 /NDF:44340219.8/55

All: 1816.404 $\pm$ 0.244 χ^2 /NDF: 72783239.8/102

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1496.187+/-1475.647 χ^2/NDF : 31.9/26

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2795.679+/-1300.763 χ^2/NDF : 24.0/30

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

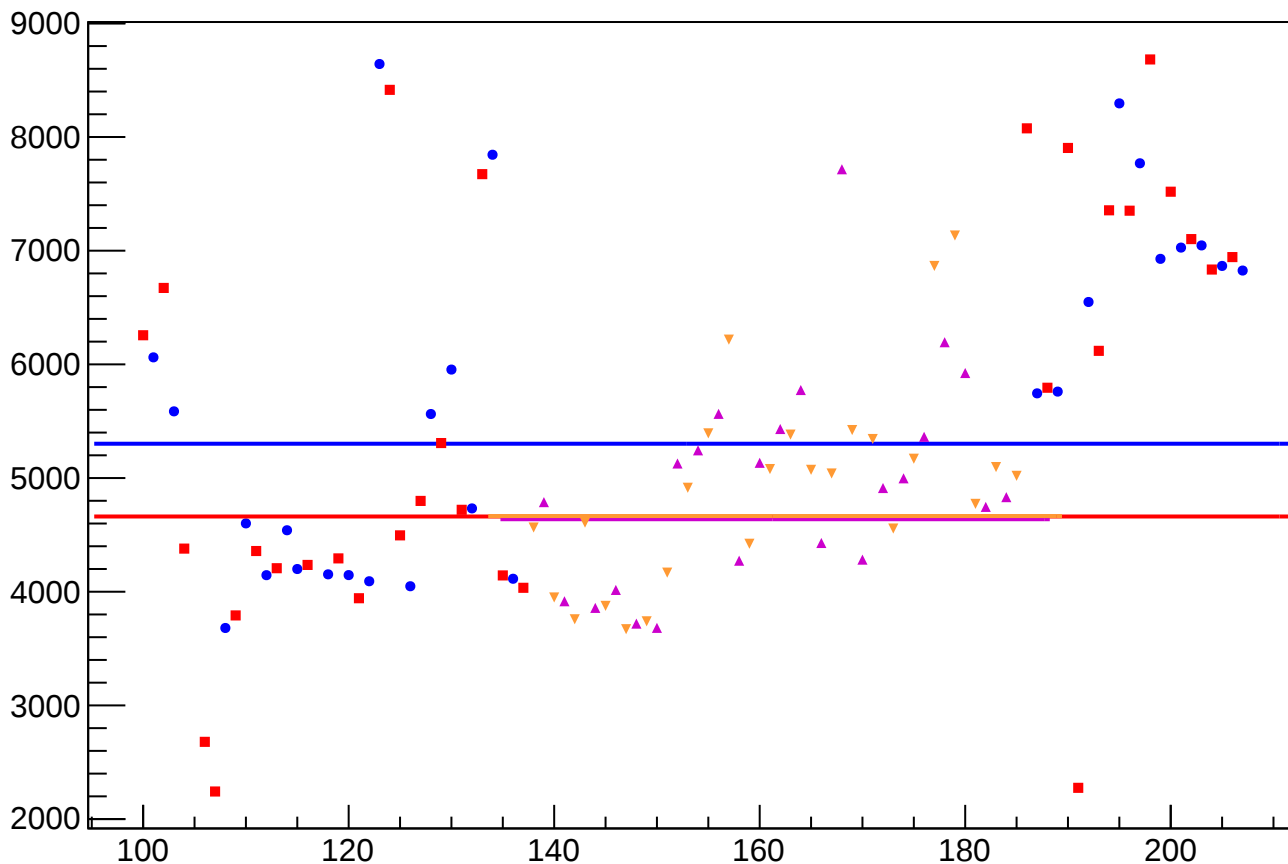
Right: -2227.464+/-975.781 χ^2/NDF : 56.3/57

In: -639.519+/-896.993 χ^2/NDF : 51.0/49

Out: -1064.082+/-842.969 χ^2/NDF : 52.0/55

All: -864.970+/-614.280 χ^2/NDF : 103.1/105

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5301.896+/-1.043

χ^2/NDF : 1651832.8/26

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

Right: 4940.320+/-0.688 χ^2/NDF : 5655869.7/57

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

In: 4883.168+/-0.634 χ^2/NDF : 2972462.1/49

Right Out: 4661.820+/-0.916

χ^2/NDF : 3791470.1/30

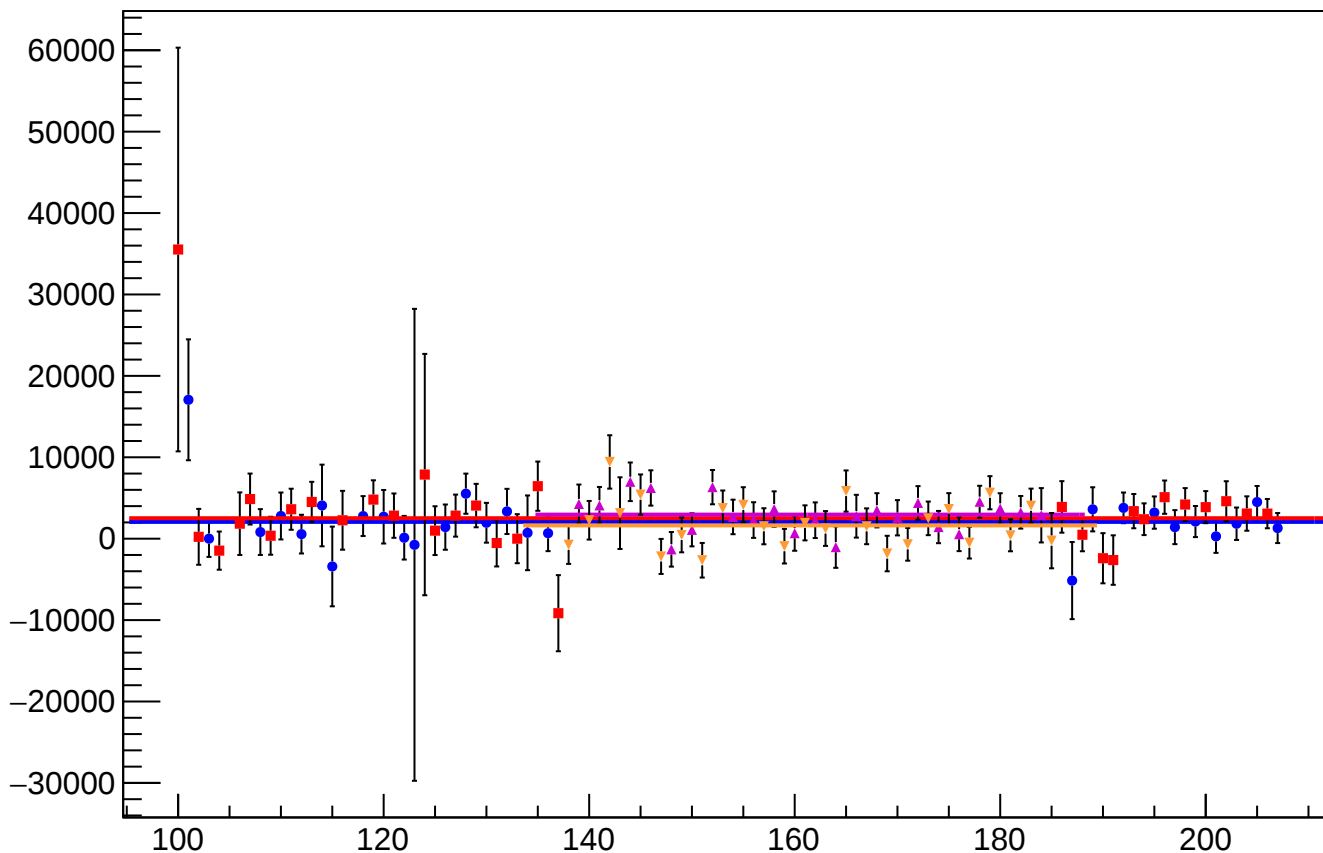
Out: 4664.016+/-0.595 χ^2/NDF : 4808715.0/55

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

All: 4766.593+/-0.434 χ^2/NDF : 7844681.7/10

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2064.966+/-486.086 χ^2/NDF : 16.8/26

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2514.956+/-465.669 χ^2/NDF : 29.3/30

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

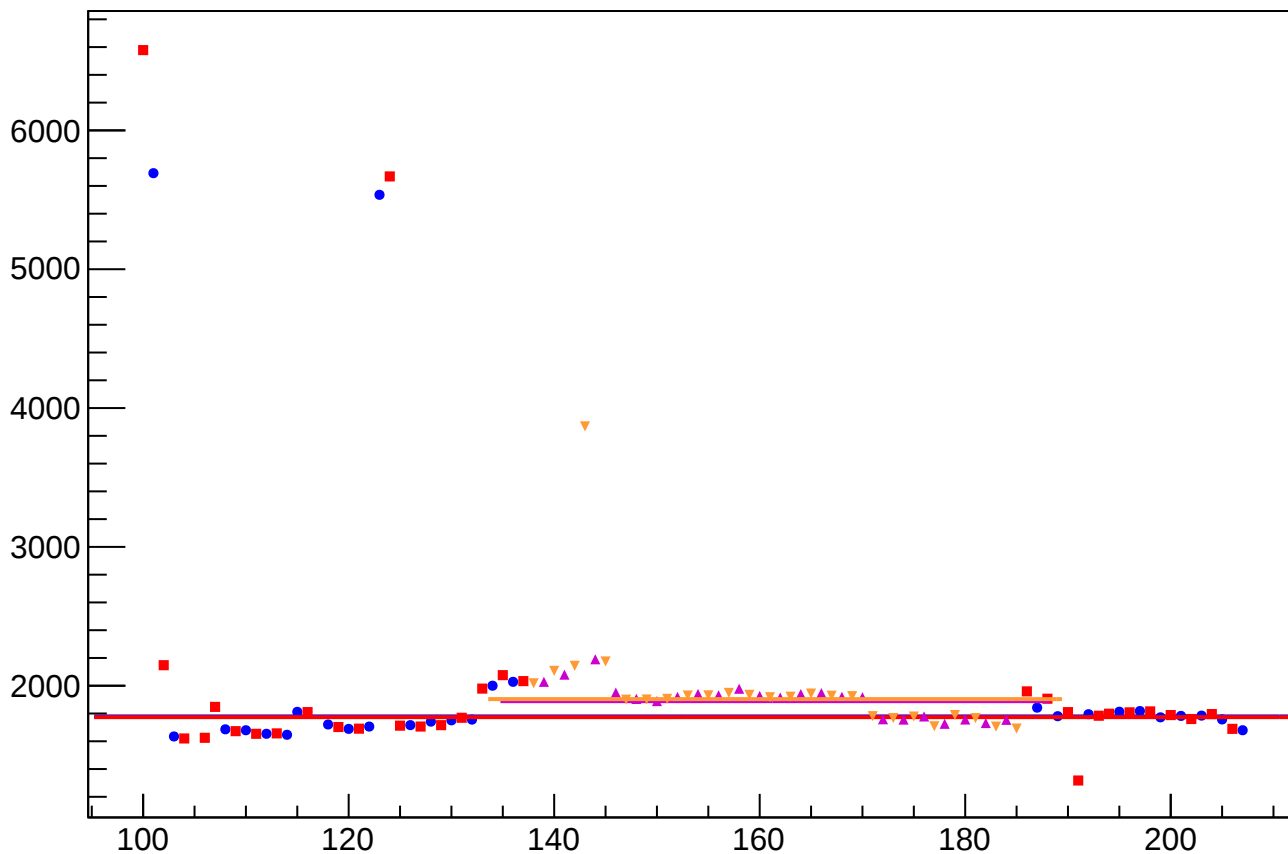
Right: 2299.610+/-336.264 χ^2/NDF : 46.5/57

In: 2542.565+/-331.668 χ^2/NDF : 39.0/49

Out: 2054.465+/-322.498 χ^2/NDF : 66.6/55

All: 2291.674+/-231.215 χ^2/NDF : 106.7/105

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1778.871+/-0.344 χ^2/NDF : 652580.1/26

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1773.712+/-0.328 χ^2/NDF : 373544.8/30

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

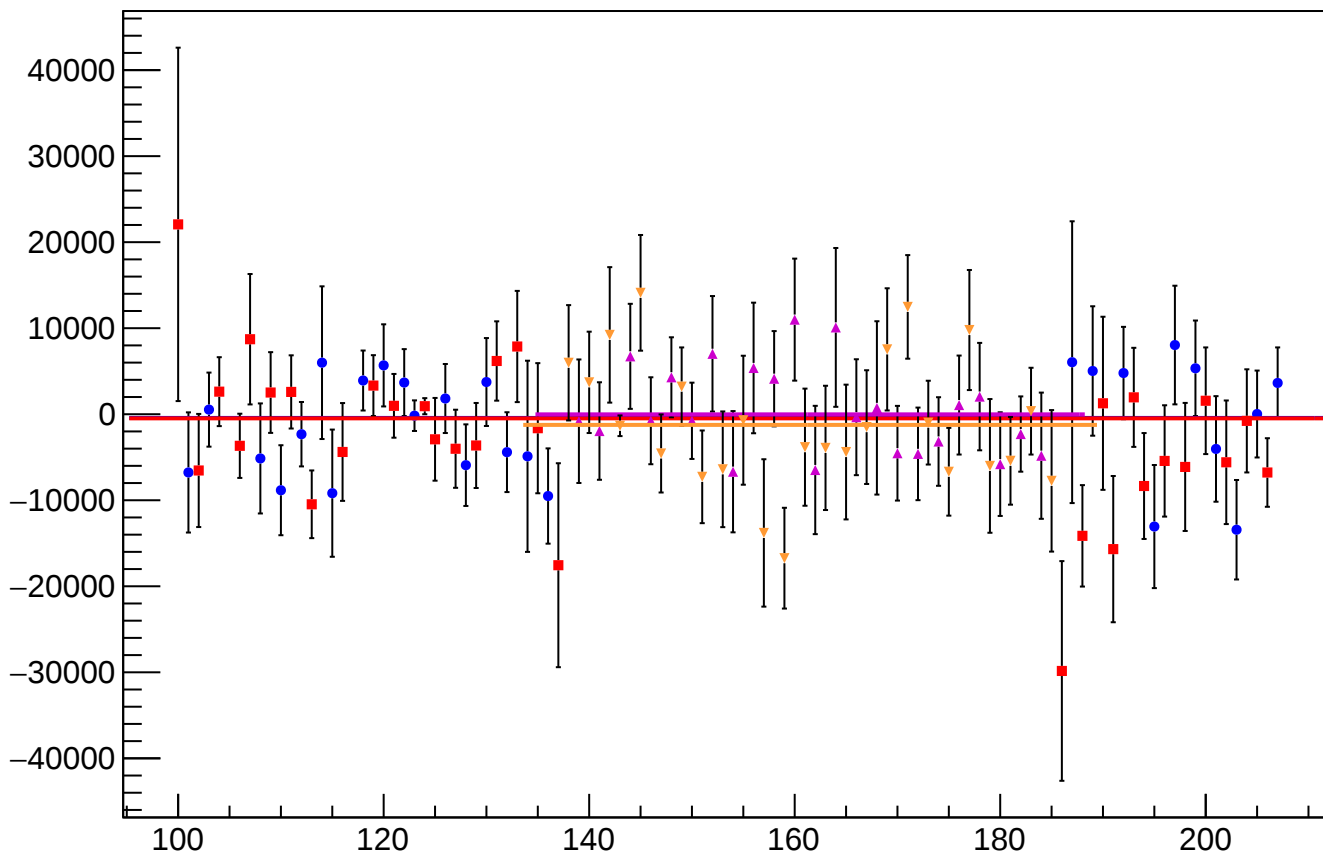
Right: 1776.173+/-0.237 χ^2/NDF : 1026242.7/57

In: 1837.689+/-0.235 χ^2/NDF : 833790.1/49

Out: 1841.105+/-0.228 χ^2/NDF : 996383.4/55

All: 1839.447+/-0.163 χ^2/NDF : 1830282.8/100

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -431.488+/-890.233 χ^2/NDF : 30.1/26

Left Out: -1239.833+/-865.201 χ^2/NDF :33.9/24

Right Out: -479.603+/-675.554 χ^2/NDF : 43.4/30

Left In: -15.863+/-1243.317 χ^2/NDF :13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

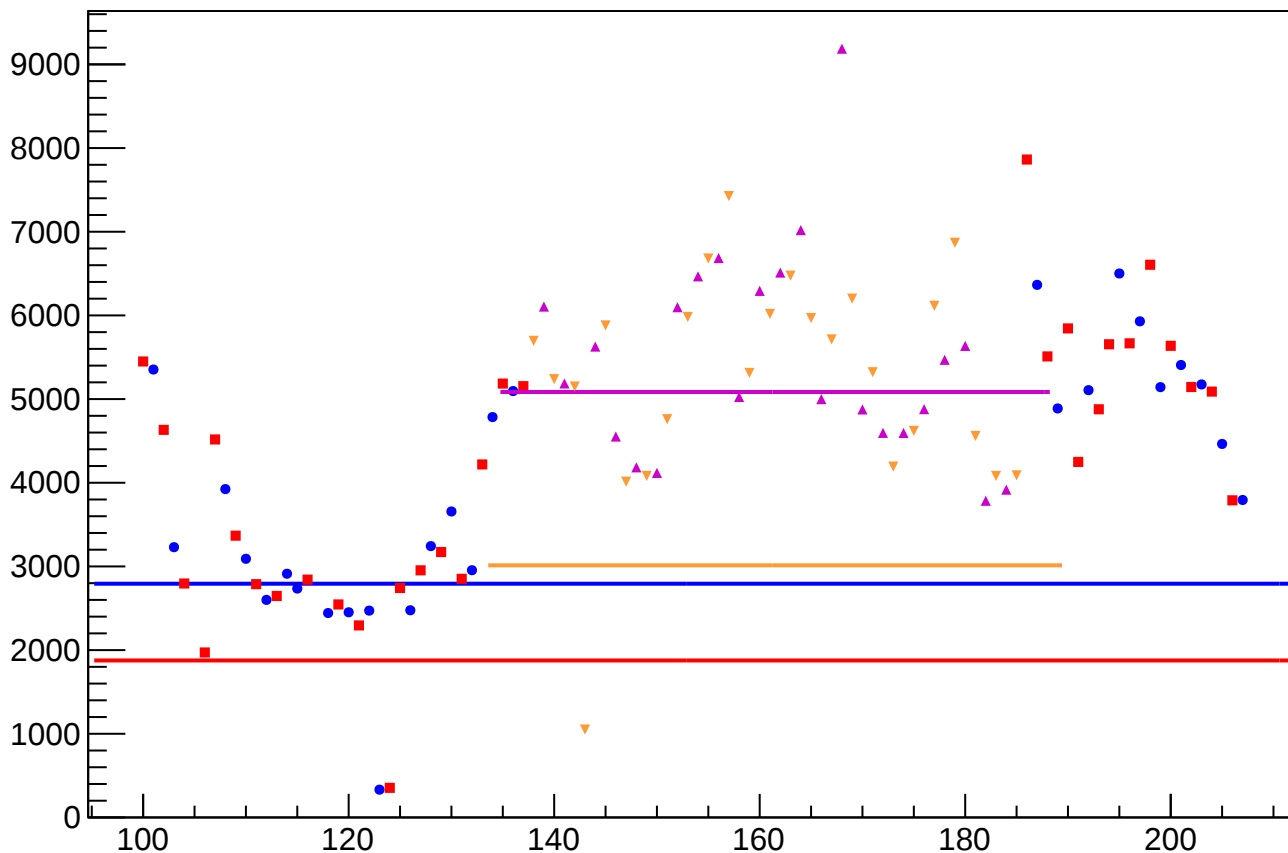
Right: -462.021+/-538.148 χ^2/NDF : 73.5/57

In: -290.624+/-723.820 χ^2/NDF :43.4/49

Out: -767.540+/-532.468 χ^2/NDF :77.8/55

All: -600.077+/-428.913 χ^2/NDF : 121.5/105

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2793.459 $\pm$ 0.629

χ^2/NDF : 7708000.3/26

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: 2211.396 $\pm$ 0.381

χ^2/NDF : 23489433.1/57

Right Out: 1876.214 $\pm$ 0.478

χ^2/NDF : 14434092.5/30

In: 3569.988 $\pm$ 0.512

χ^2/NDF : 13501530.0/49

Out: 2306.873 $\pm$ 0.377

χ^2/NDF : 28850823.4/55

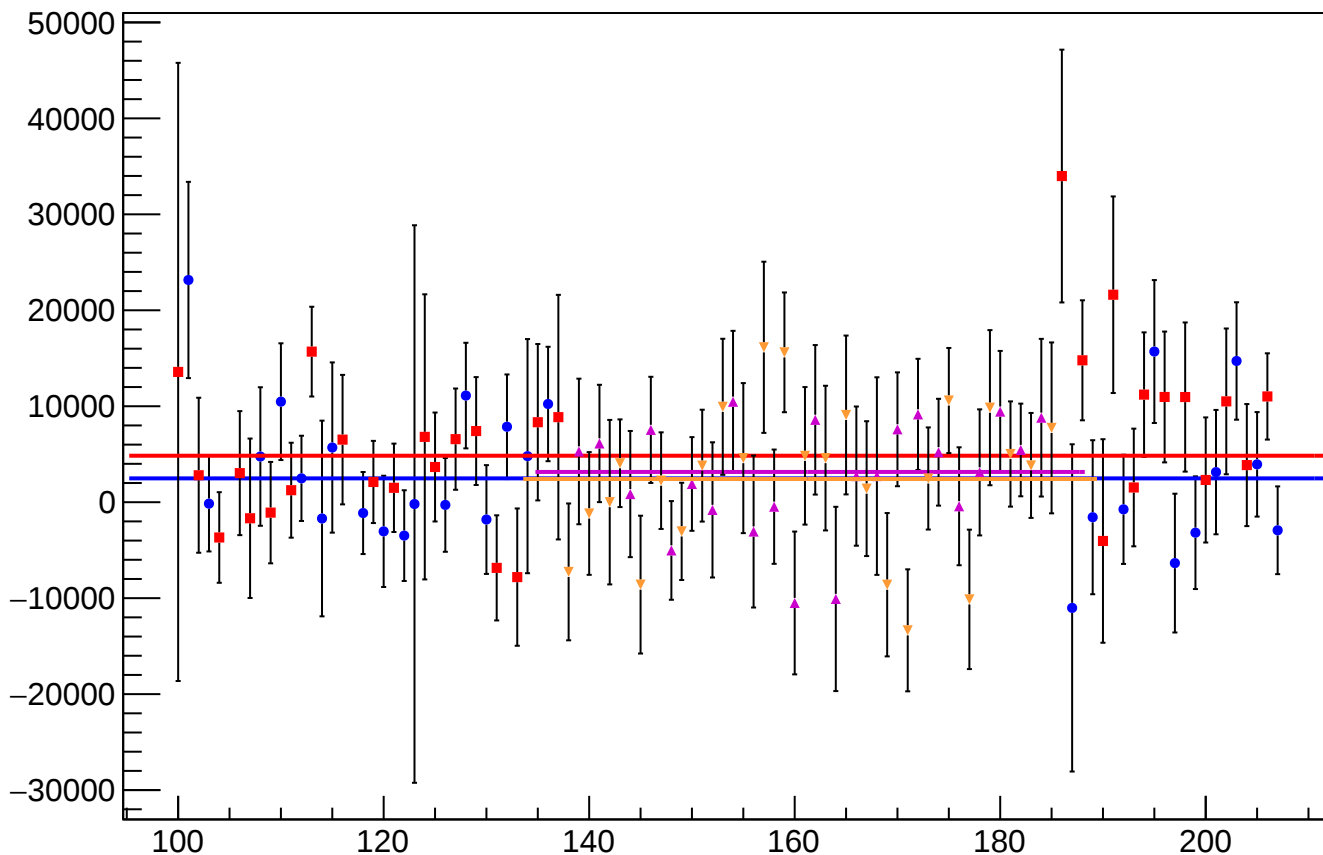
Left In: 5084.645 $\pm$ 0.879

χ^2/NDF : 1303587.7/22

All: 2750.400 $\pm$ 0.303

χ^2/NDF : 46304263.4/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2483.039+/-1176.666 χ^2/NDF : 28.0/26

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4844.158+/-1135.072 χ^2/NDF : 36.7/30

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

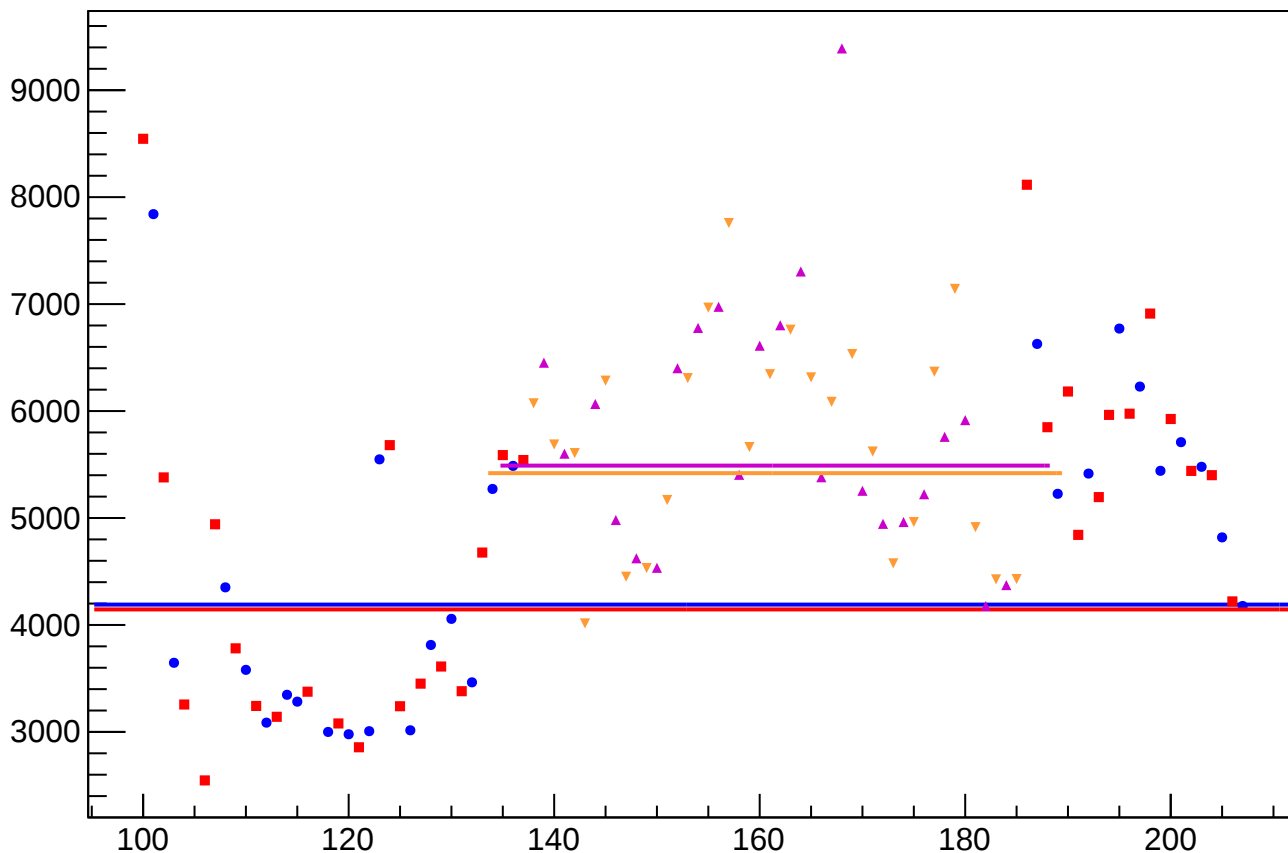
Right: 3706.067+/-816.926 χ^2/NDF : 66.8/57

In: 2775.562+/-883.413 χ^2/NDF : 43.7/49

Out: 3781.840+/-851.140 χ^2/NDF : 68.6/55

All: 3297.418+/-612.939 χ^2/NDF : 112.9/105

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4190.434+/-0.832 χ^2/NDF : 1984611.3/26

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4145.339+/-0.795 χ^2/NDF : 2421059.2/30

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

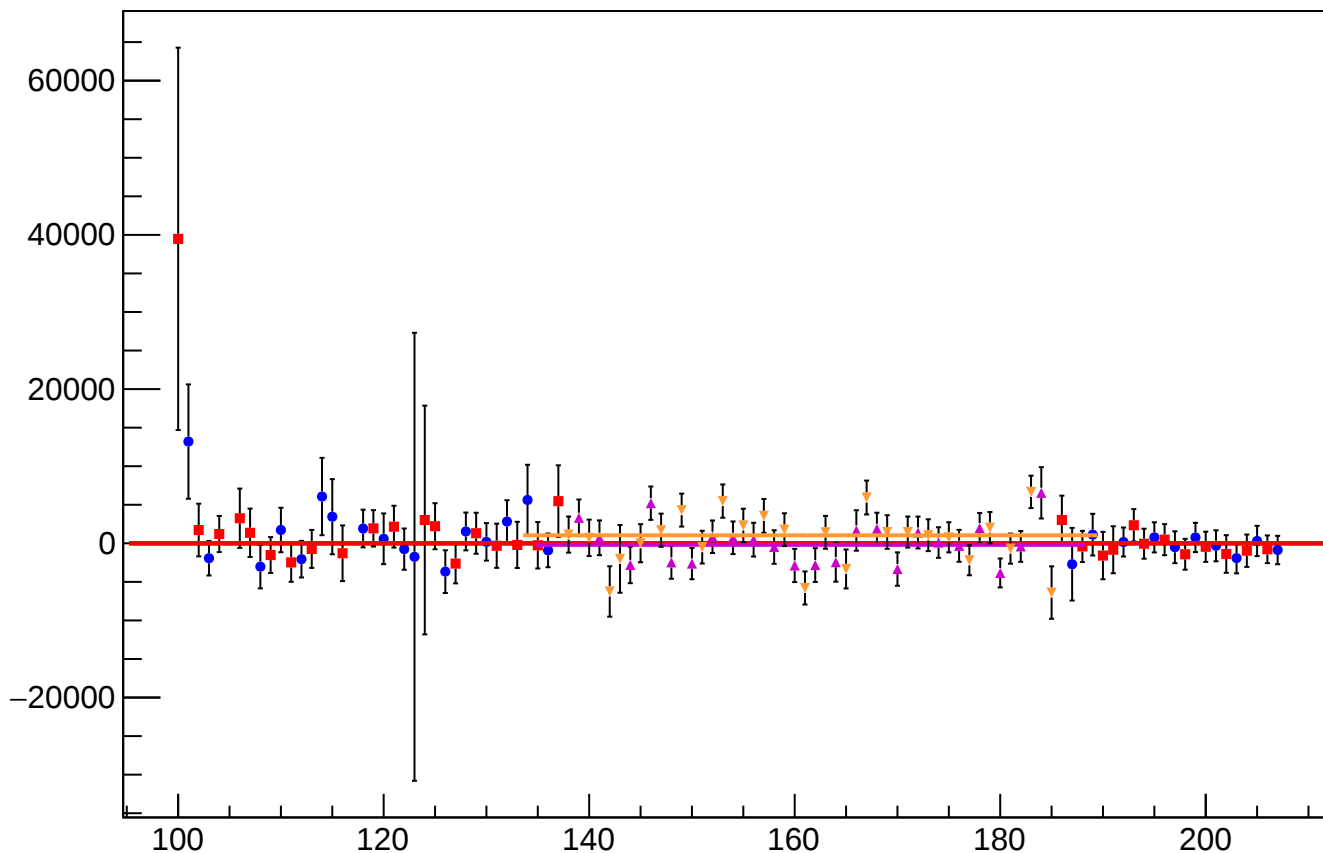
Right: 4166.861+/-0.575 χ^2/NDF : 4407206.0/57

In: 4757.427+/-0.625 χ^2/NDF : 4113264.8/49

Out: 4697.009+/-0.599 χ^2/NDF : 4643007.0/55

All: 4725.932+/-0.432 χ^2/NDF : 8761148.3/100

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -33.610 ± 483.765 $\chi^2/\text{NDF}: 15.9/26$

Left Out: 1041.262 ± 446.249 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 39.112 ± 463.623 $\chi^2/\text{NDF}: 14.0/30$

Left In: -191.966 ± 453.055 $\chi^2/\text{NDF}: 30.0/22$

Left: 433.980 ± 317.925 $\chi^2/\text{NDF}: 82.3/47$

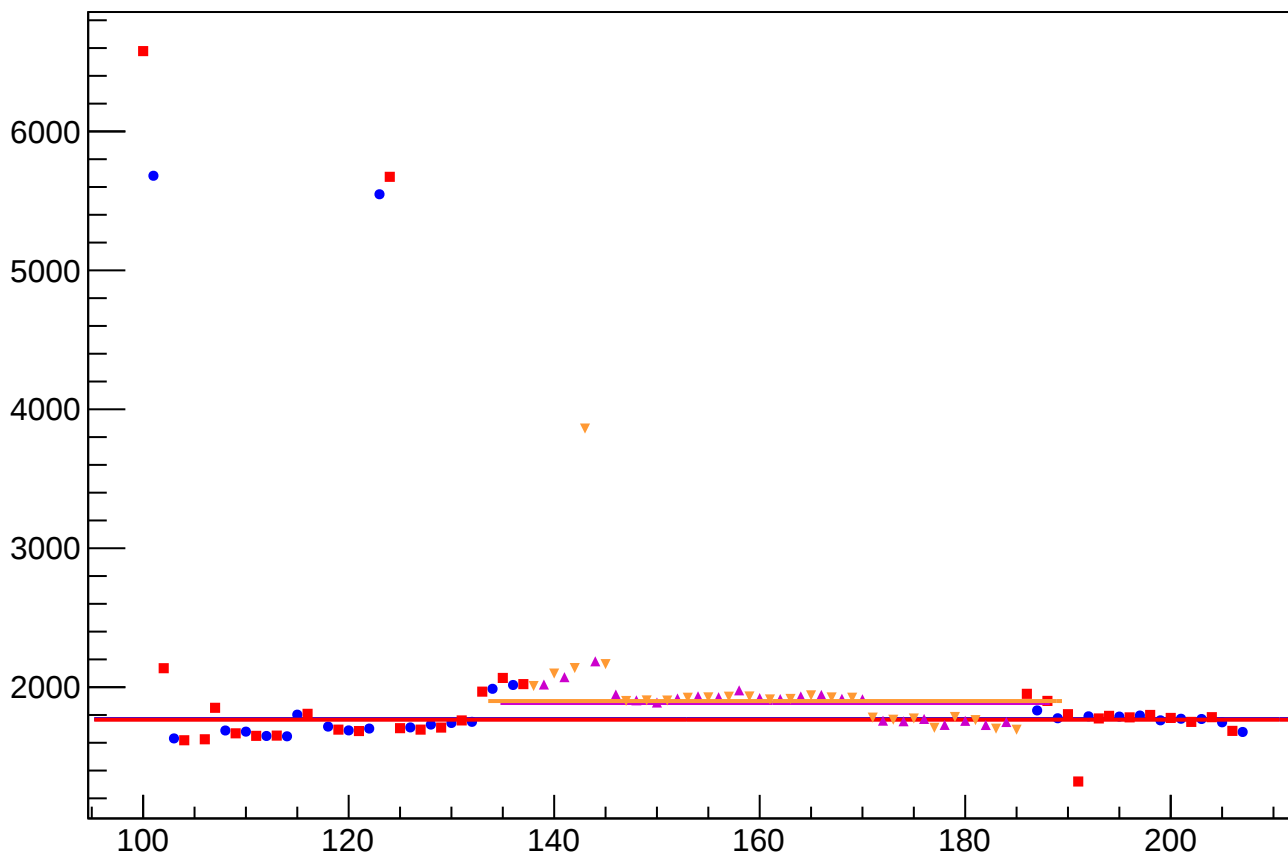
Right: 4.296 ± 334.725 $\chi^2/\text{NDF}: 29.9/57$

In: -117.974 ± 330.682 $\chi^2/\text{NDF}: 45.9/49$

Out: 559.315 ± 321.512 $\chi^2/\text{NDF}: 65.0/55$

All: 230.192 ± 230.517 $\chi^2/\text{NDF}: 113.1/105$

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1770.509+/-0.342 χ^2/NDF : 649676.0/26

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1766.137+/-0.327 χ^2/NDF : 369798.9/30

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

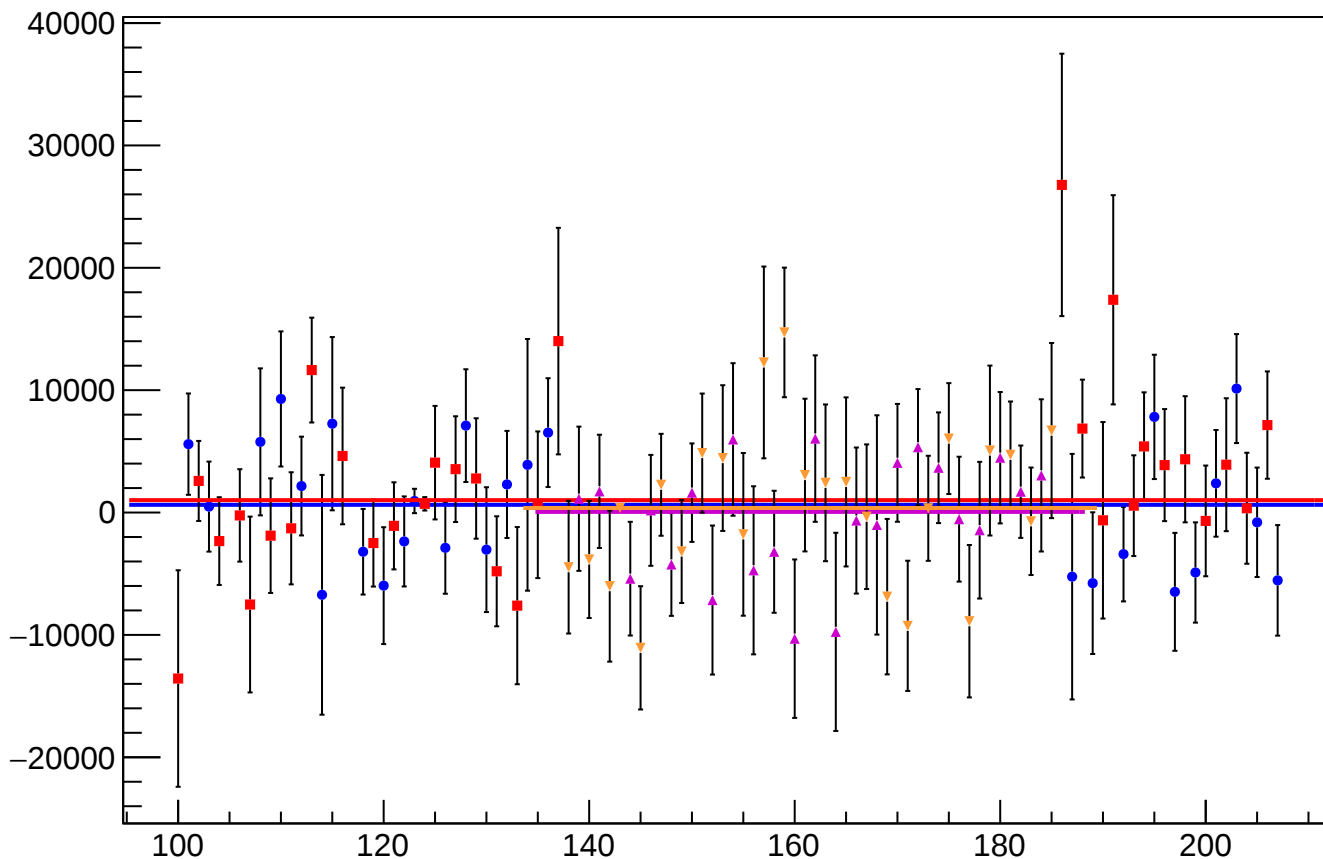
Right: 1768.223+/-0.236 χ^2/NDF : 1019560.3/57

In: 1832.237+/-0.234 χ^2/NDF : 834321.0/49

Out: 1835.564+/-0.227 χ^2/NDF : 994907.8/55

All: 1833.950+/-0.163 χ^2/NDF : 1829333.1/10

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 630.799+/-672.336 χ^2/NDF : 30.8/26

Left Out: 373.277+/-382.071 χ^2/NDF : 30.8/24

Right Out: 1013.236+/-462.561 χ^2/NDF : 36.4/30

Left In: 53.099+/-1089.888 χ^2/NDF : 14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

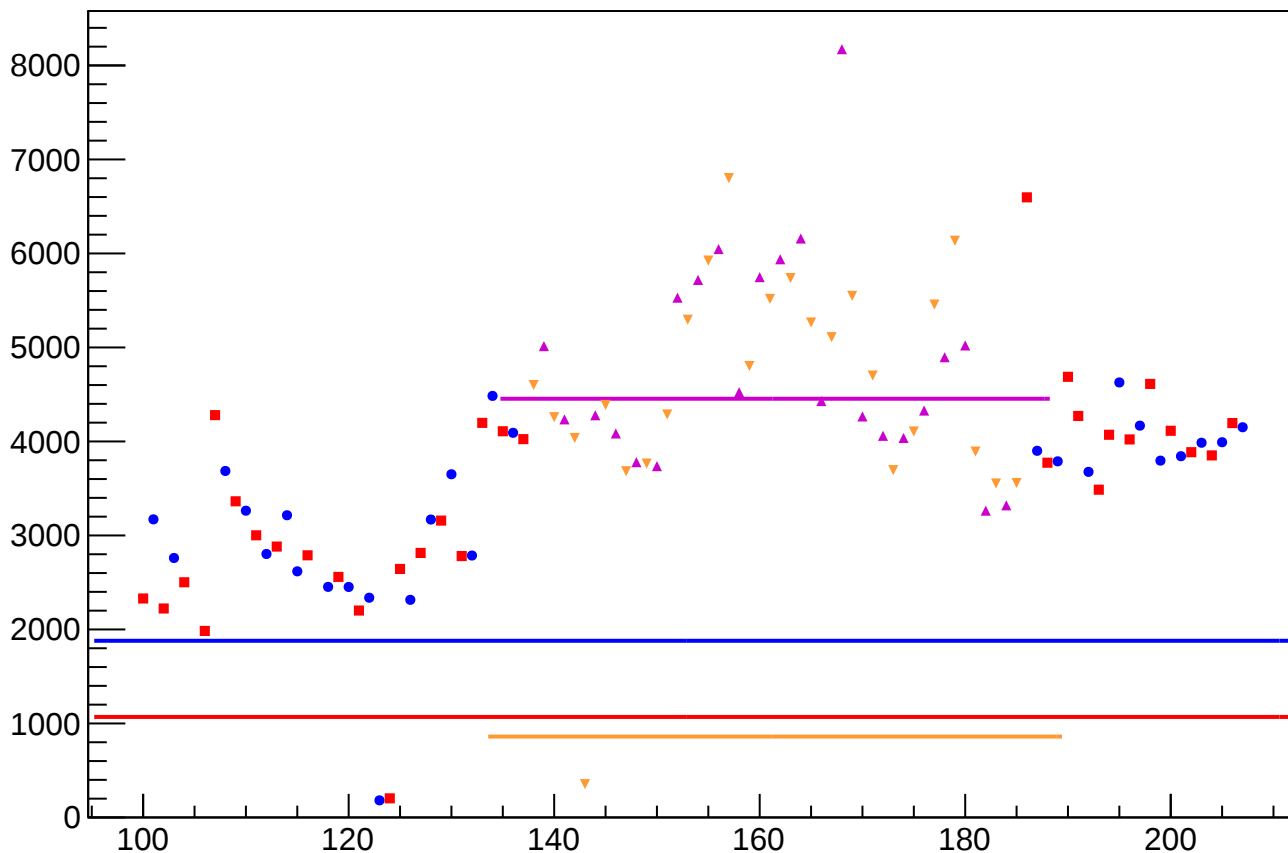
Right: 890.372+/-381.082 χ^2/NDF : 67.4/57

In: 471.556+/-572.217 χ^2/NDF : 45.5/49

Out: 632.821+/-294.576 χ^2/NDF : 68.3/55

All: 599.036+/-261.908 χ^2/NDF : 113.9/105

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1879.577 $\pm$ 0.475 χ^2 /NDF: 11854421.4/26

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1069.252 $\pm$ 0.327 χ^2 /NDF: 19188645.4/30

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

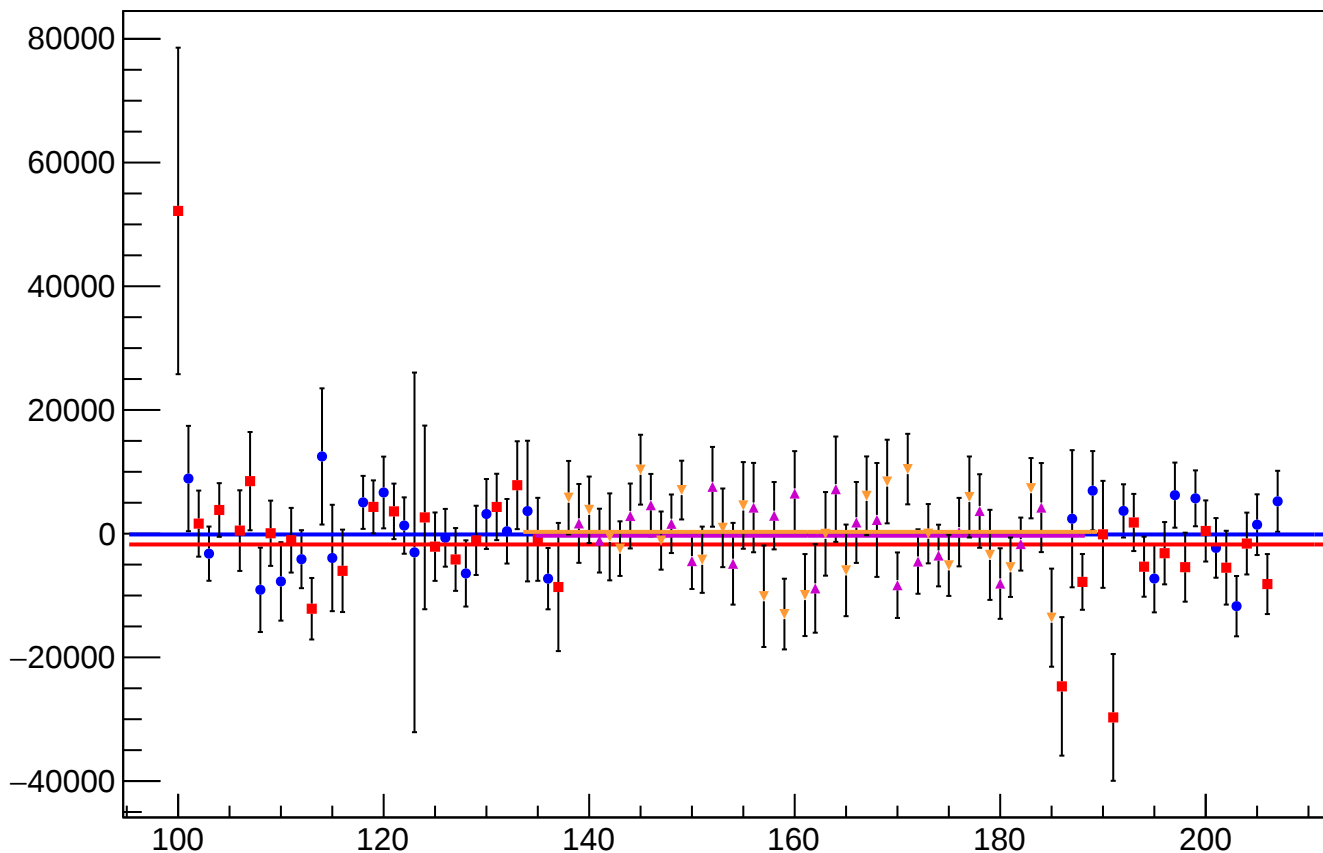
Right: 1329.582 $\pm$ 0.269 χ^2 /NDF: 33014924.9/57

In: 2589.326 $\pm$ 0.405 χ^2 /NDF: 21289747.8/49

Out: 945.189 $\pm$ 0.208 χ^2 /NDF: 45770783.3/55

All: 1289.631 $\pm$ 0.185 χ^2 /NDF: 80112886.5/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -127.594 ± 1064.229 $\chi^2/\text{NDF}: 27.9/26$

Left Out: 288.508 ± 1155.419 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -1746.465 ± 1023.316 $\chi^2/\text{NDF}: 37.7/30$

Left In: -332.488 ± 1196.011 $\chi^2/\text{NDF}: 14.7/22$

Left: -11.273 ± 830.984 $\chi^2/\text{NDF}: 47.2/47$

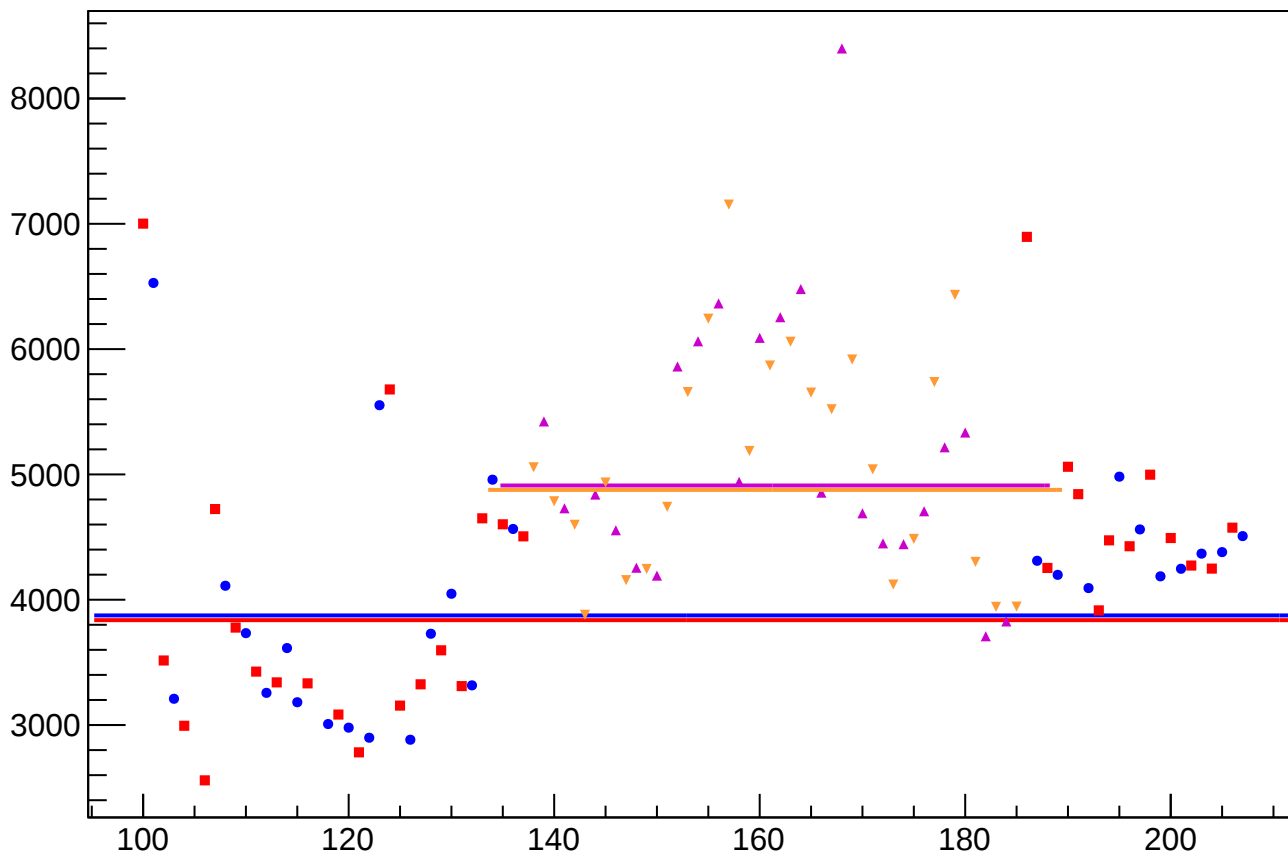
Right: -968.745 ± 737.633 $\chi^2/\text{NDF}: 66.8/57$

In: -218.135 ± 795.049 $\chi^2/\text{NDF}: 42.6/49$

Out: -851.913 ± 766.060 $\chi^2/\text{NDF}: 71.8/55$

All: -546.789 ± 551.650 $\chi^2/\text{NDF}: 114.8/105$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3874.638+/-0.753 χ^2/NDF : 919261.4/26

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3837.005+/-0.718 χ^2/NDF : 1123655.7/30

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

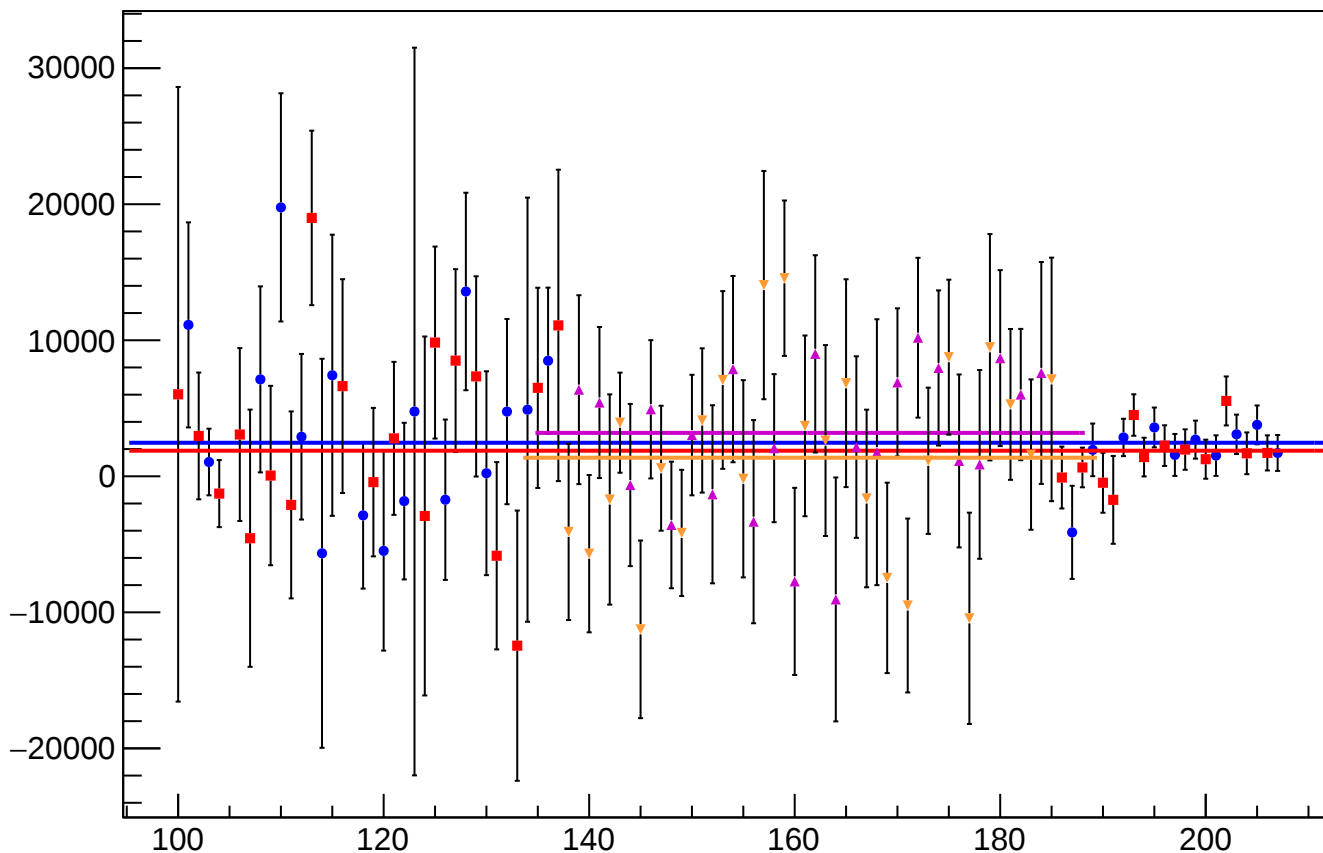
Right: 3854.939+/-0.519 χ^2/NDF : 2044226.3/57

In: 4332.839+/-0.562 χ^2/NDF : 2801419.9/49

Out: 4290.013+/-0.539 χ^2/NDF : 3009677.7/55

All: 4310.538+/-0.389 χ^2/NDF : 5814119.5/100

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2465.500+/-459.019 χ^2/NDF : 20.6/26

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1880.106+/-441.423 χ^2/NDF : 29.0/30

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

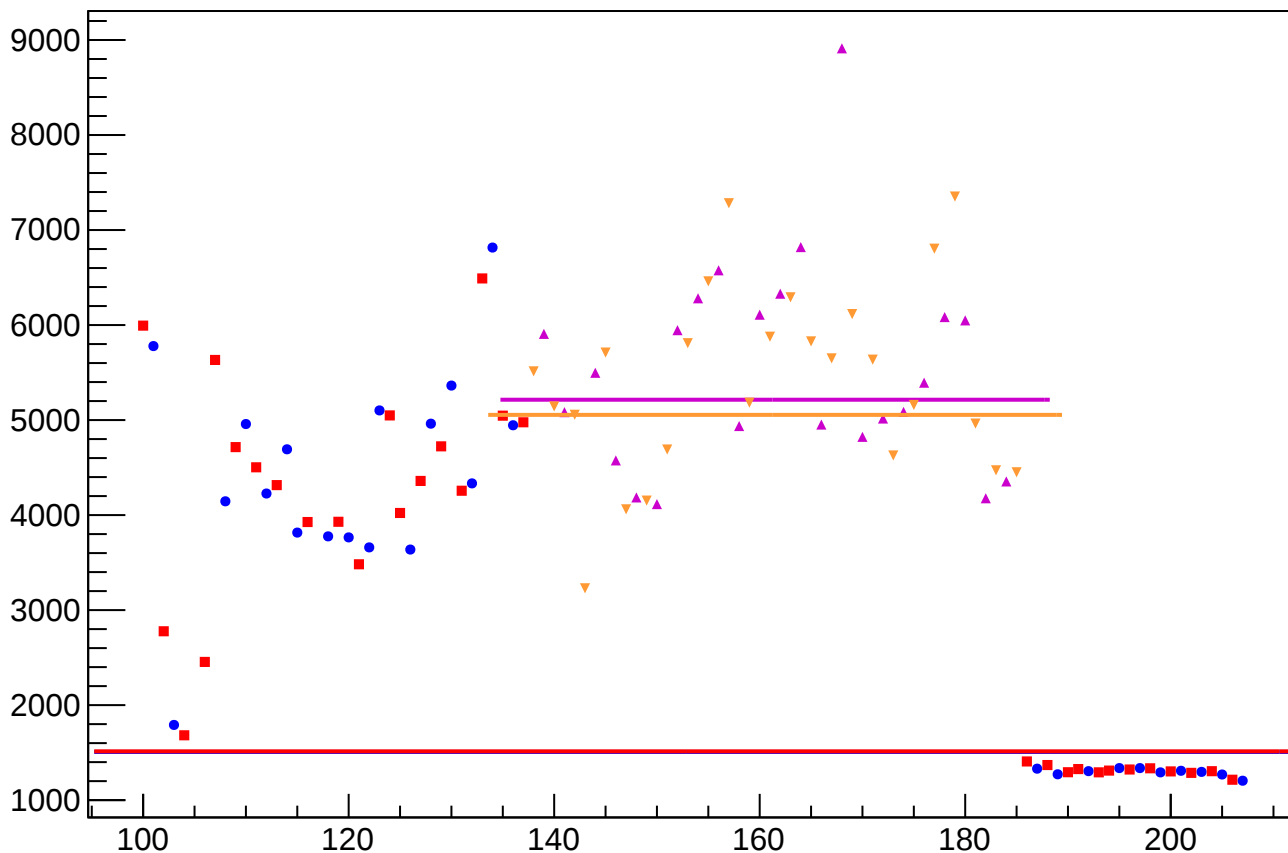
Right: 2161.368+/-318.172 χ^2/NDF : 50.4/57

In: 2549.340+/-431.689 χ^2/NDF : 34.8/49

Out: 1819.283+/-414.539 χ^2/NDF : 57.1/55

All: 2169.522+/-299.002 χ^2/NDF : 93.4/105

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1507.369+/-0.325 χ^2/NDF : 5817984.9/26

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1513.553+/-0.312 χ^2/NDF : 5746095.3/30

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

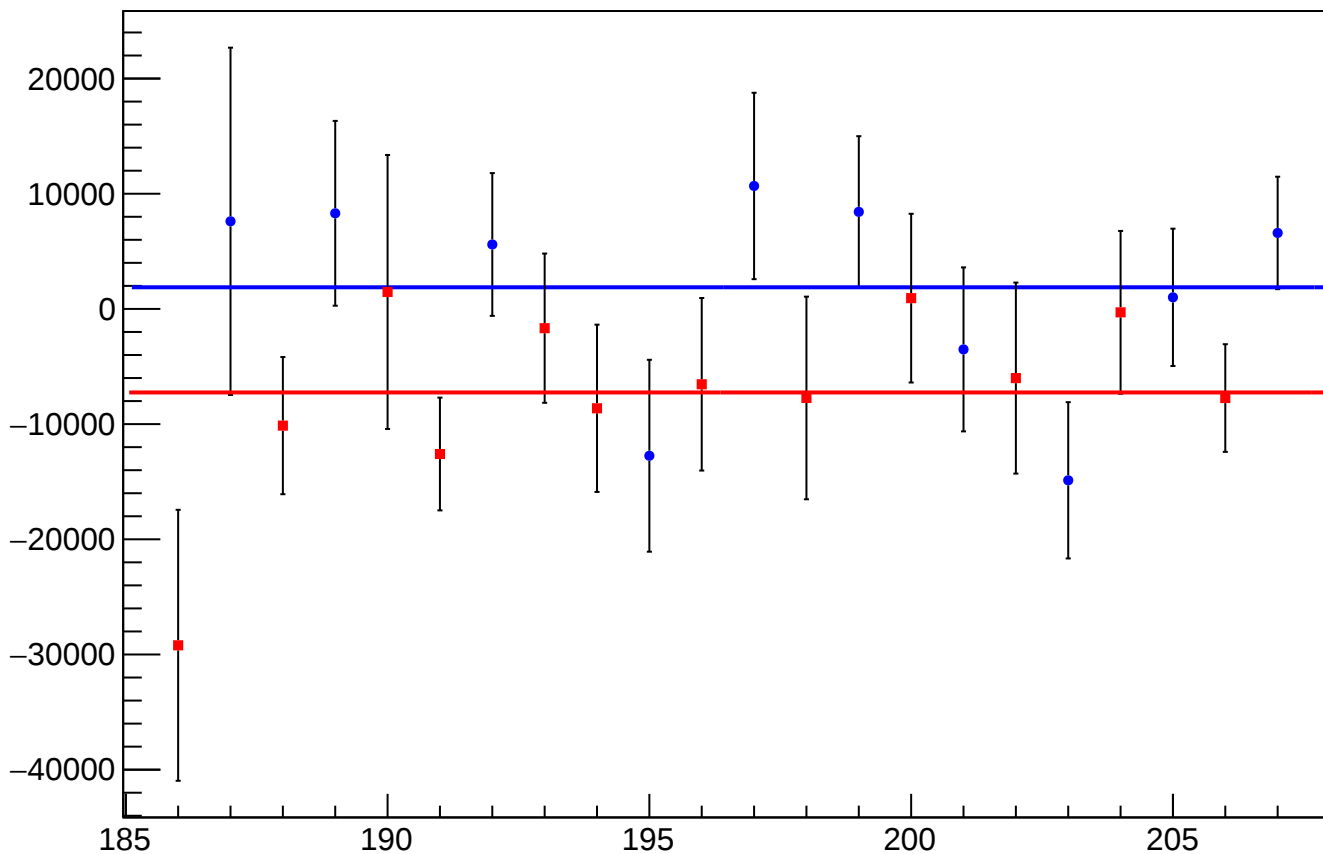
Right: 1510.585+/-0.225 χ^2/NDF : 11564269.0/57

In: 1935.632+/-0.305 χ^2/NDF : 21939163.2/49

Out: 1931.058+/-0.293 χ^2/NDF : 22387069.0/55

All: 1933.251+/-0.211 χ^2/NDF : 44326349.1/11

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 1879.225+/-2179.820 χ^2/NDF : 14.0/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -7251.852+/-1973.248 χ^2/NDF : 8.5/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

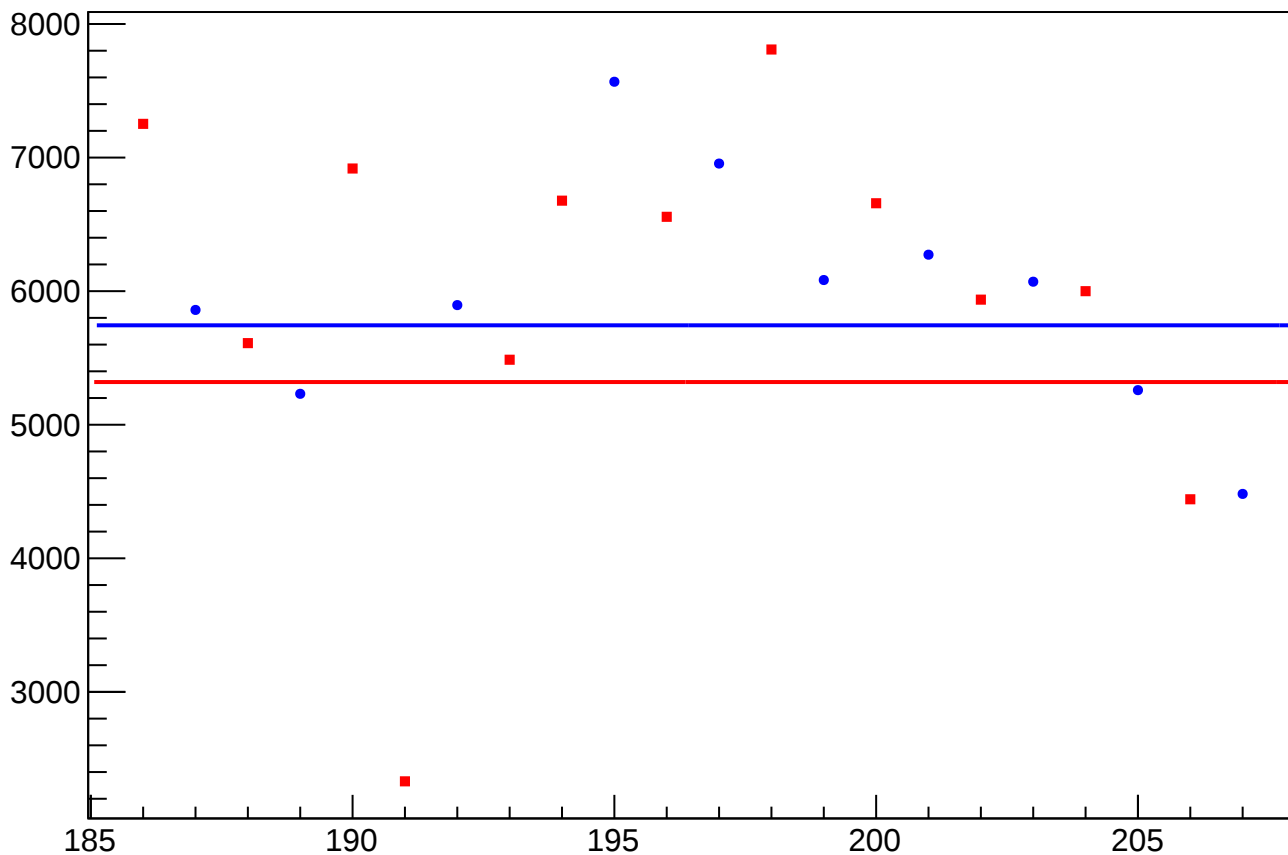
Right: -3139.368+/-1462.890 χ^2/NDF : 32.2/21

In: 1879.225+/-2179.820 χ^2/NDF : 14.0/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -3139.368+/-1462.890 χ^2/NDF : 32.2/21

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5744.316+/-1.541 χ^2/NDF : 318122.2/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5319.633+/-1.395 χ^2/NDF : 1294076.0/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

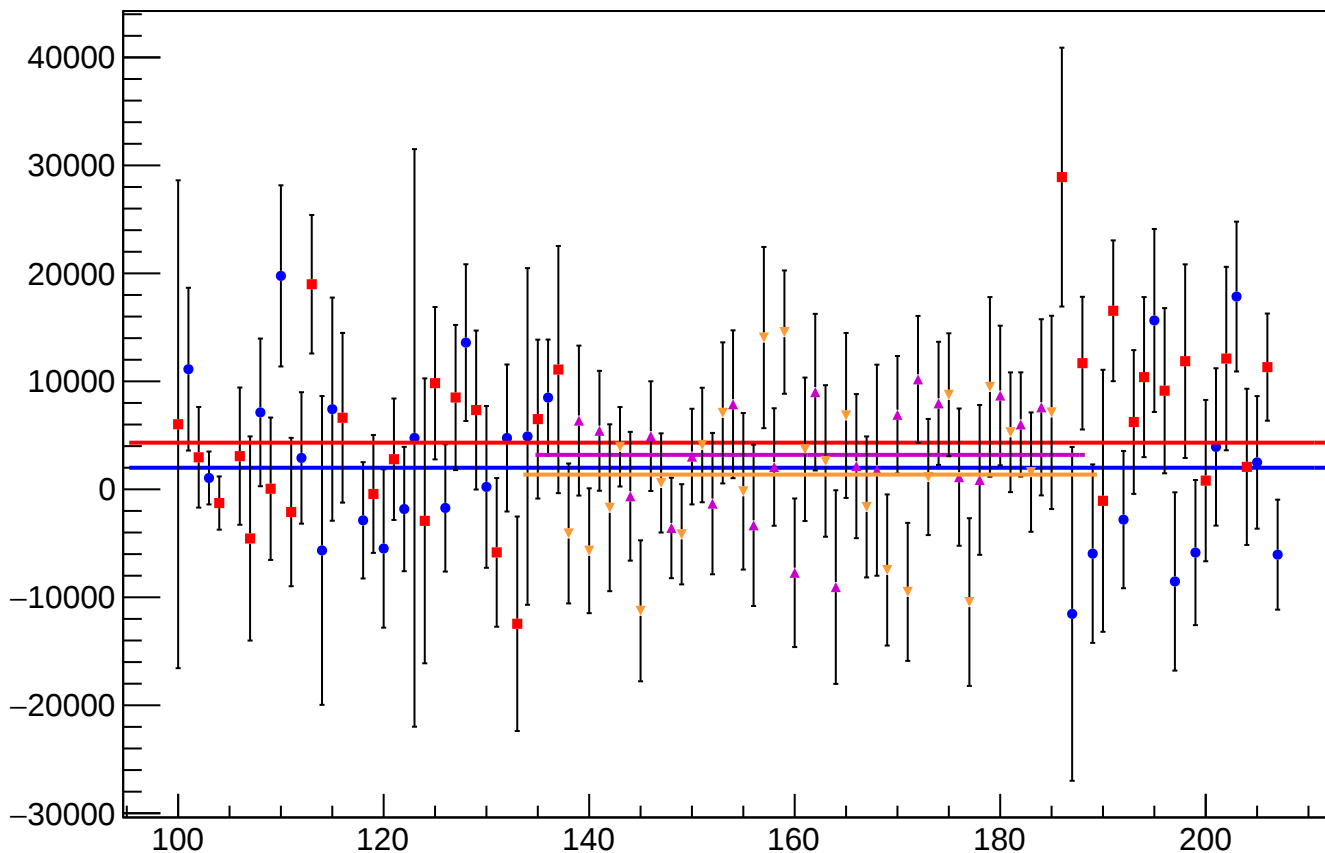
Right: 5510.903+/-1.034 χ^2/NDF : 1653921.4/21

In: 5744.316+/-1.541 χ^2/NDF : 318122.2/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5510.903+/-1.034 χ^2/NDF : 1653921.4/21

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1997.828 $\pm$ 1220.992 χ^2 /NDF: 29.9/26

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 4321.137 $\pm$ 1156.490 χ^2 /NDF: 34.9/30

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

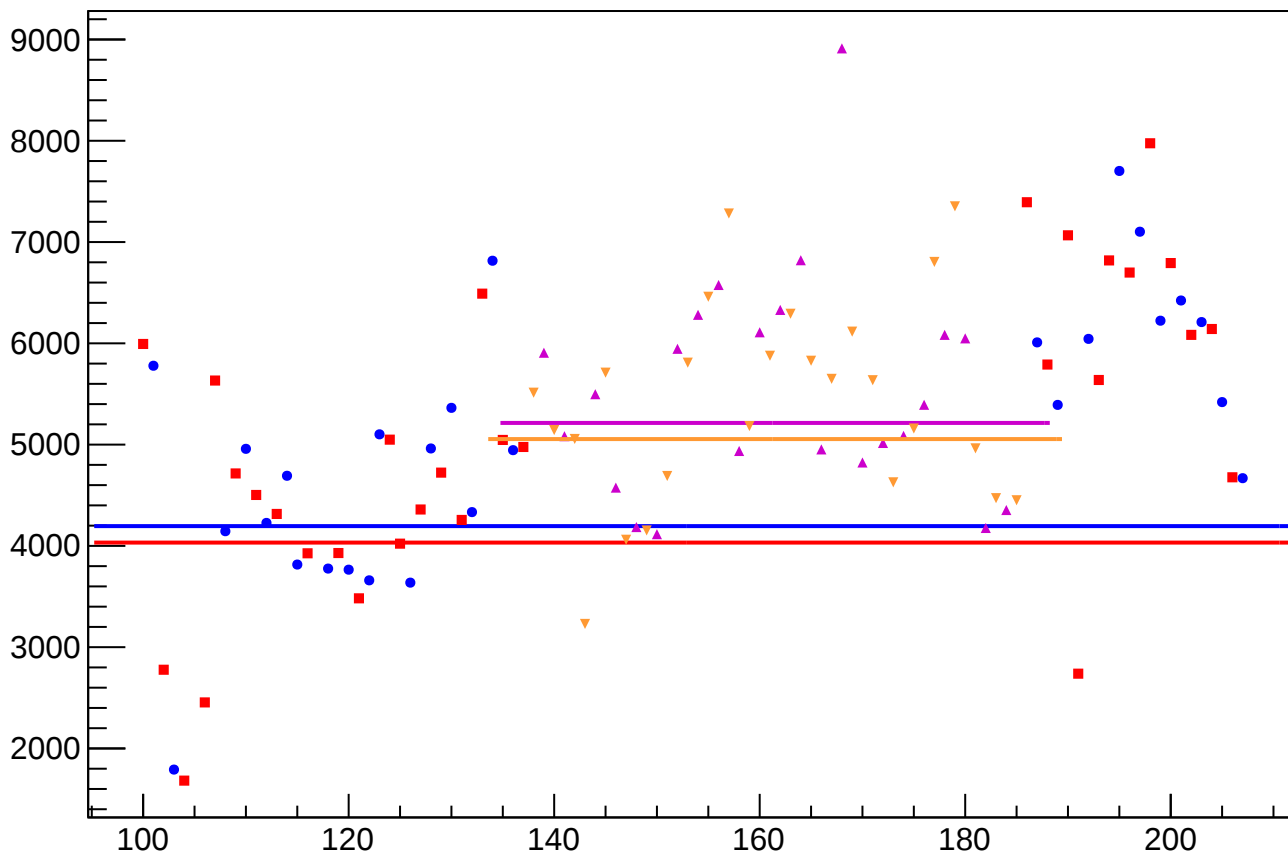
Right: 3222.468 $\pm$ 839.639 χ^2 /NDF: 66.7/57

In: 2571.015 $\pm$ 880.195 χ^2 /NDF:44.3/49

Out: 2905.358 $\pm$ 834.805 χ^2 /NDF:66.0/55

All: 2747.029 $\pm$ 605.707 χ^2 /NDF: 110.4/105

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4195.311+/-0.863

χ^2/NDF : 3725312.9/26

Left Out: 5054.711+/-0.853

χ^2/NDF : 1437224.7/24

Right Out: 4032.680+/-0.812

χ^2/NDF : 4618557.2/30

Left In: 5214.120+/-0.898

χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618

χ^2/NDF : 2506291.2/47

Right: 4109.064+/-0.592

χ^2/NDF : 8362687.8/57

In: 4684.662+/-0.622

χ^2/NDF : 5446670.0/49

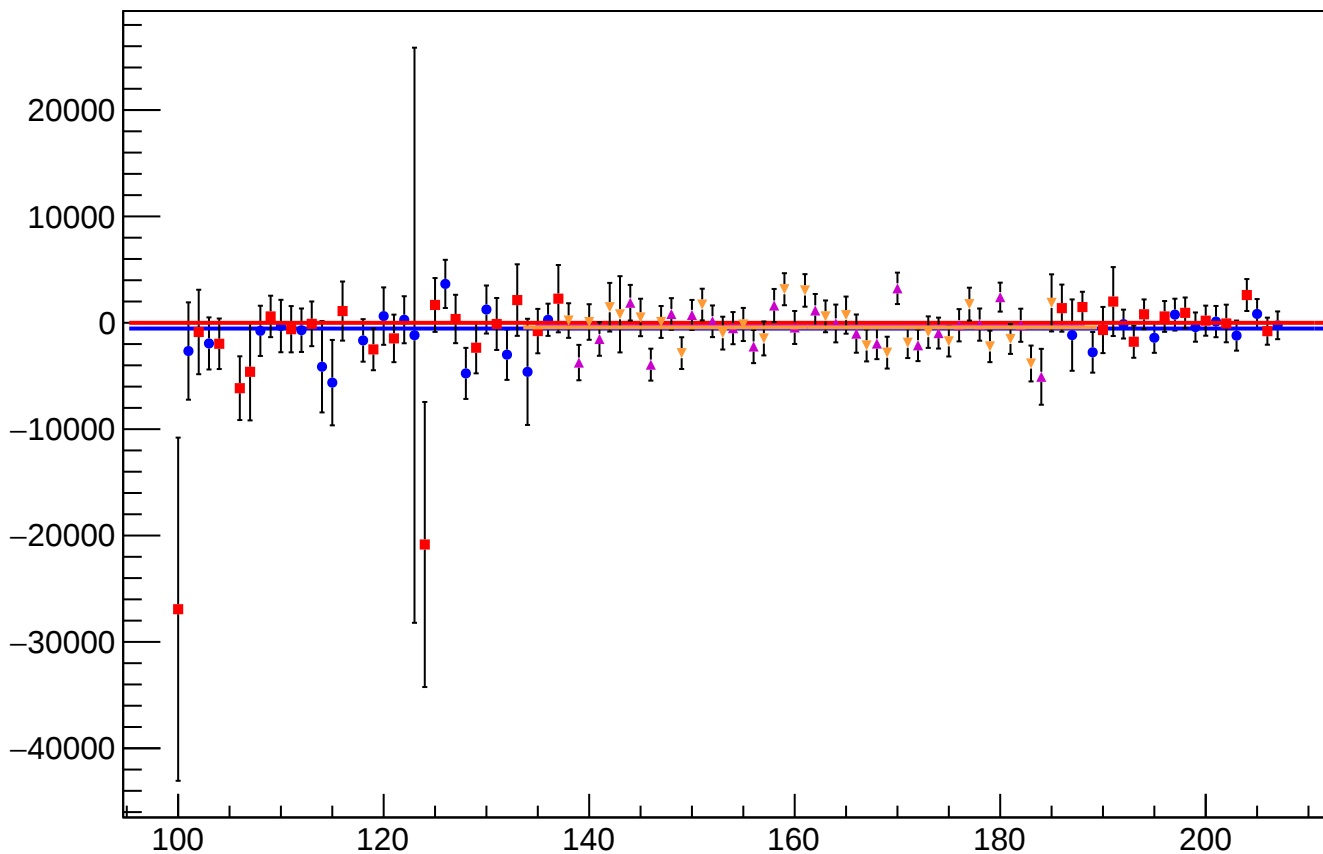
Out: 4518.876+/-0.588

χ^2/NDF : 6808510.6/55

All: 4597.106+/-0.428

χ^2/NDF : 12292653.3/100

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -541.072 $\pm$ 373.513 χ^2 /NDF: 16.8/26

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: -4.300 $\pm$ 362.925 χ^2 /NDF: 23.7/30

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

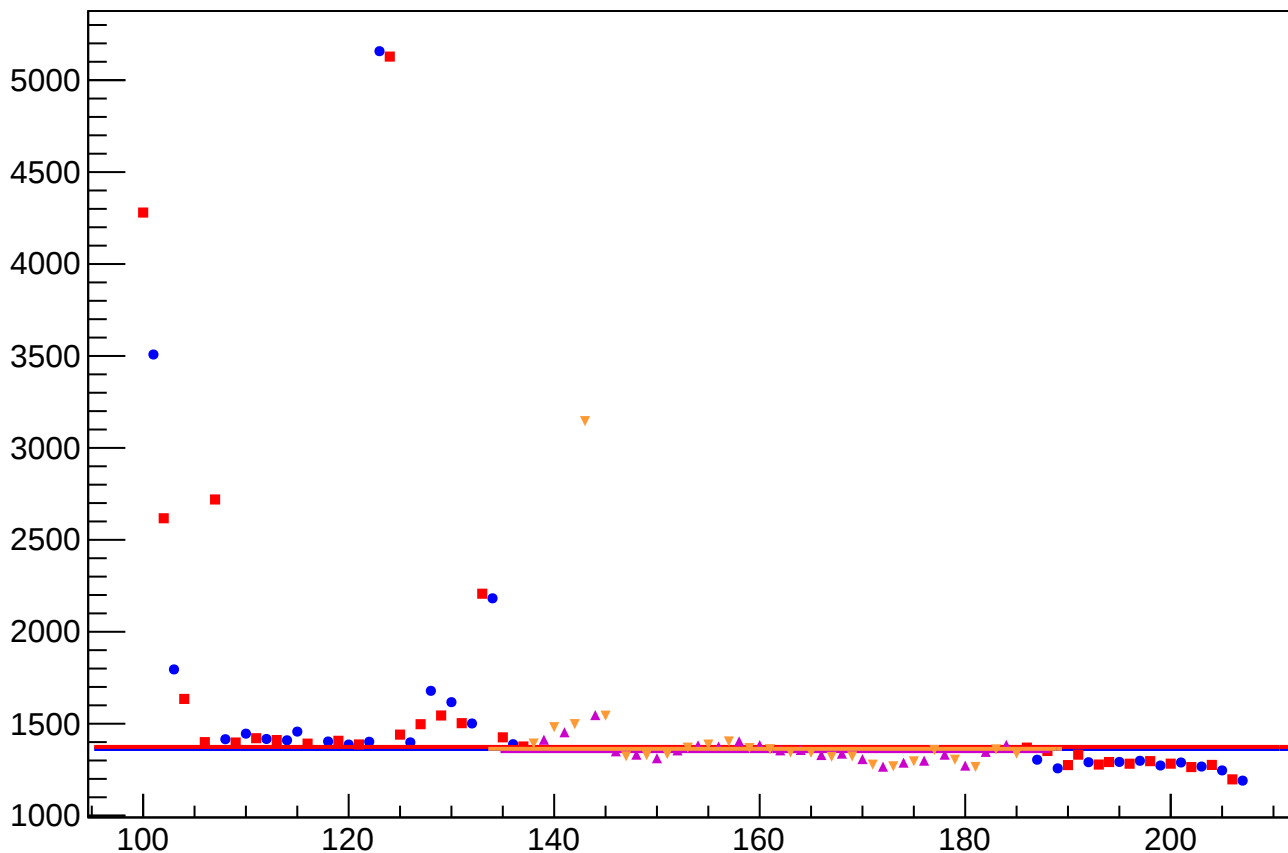
Right: -264.971 $\pm$ 260.290 χ^2 /NDF: 41.5/57

In: -428.577 $\pm$ 244.908 χ^2 /NDF:50.7/49

Out: -244.412 $\pm$ 240.251 χ^2 /NDF:57.5/55

All: -334.727 $\pm$ 171.506 χ^2 /NDF: 108.5/105

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1362.632+/-0.264 χ^2/NDF : 763581.7/26

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1373.836+/-0.257 χ^2/NDF : 862013.7/30

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

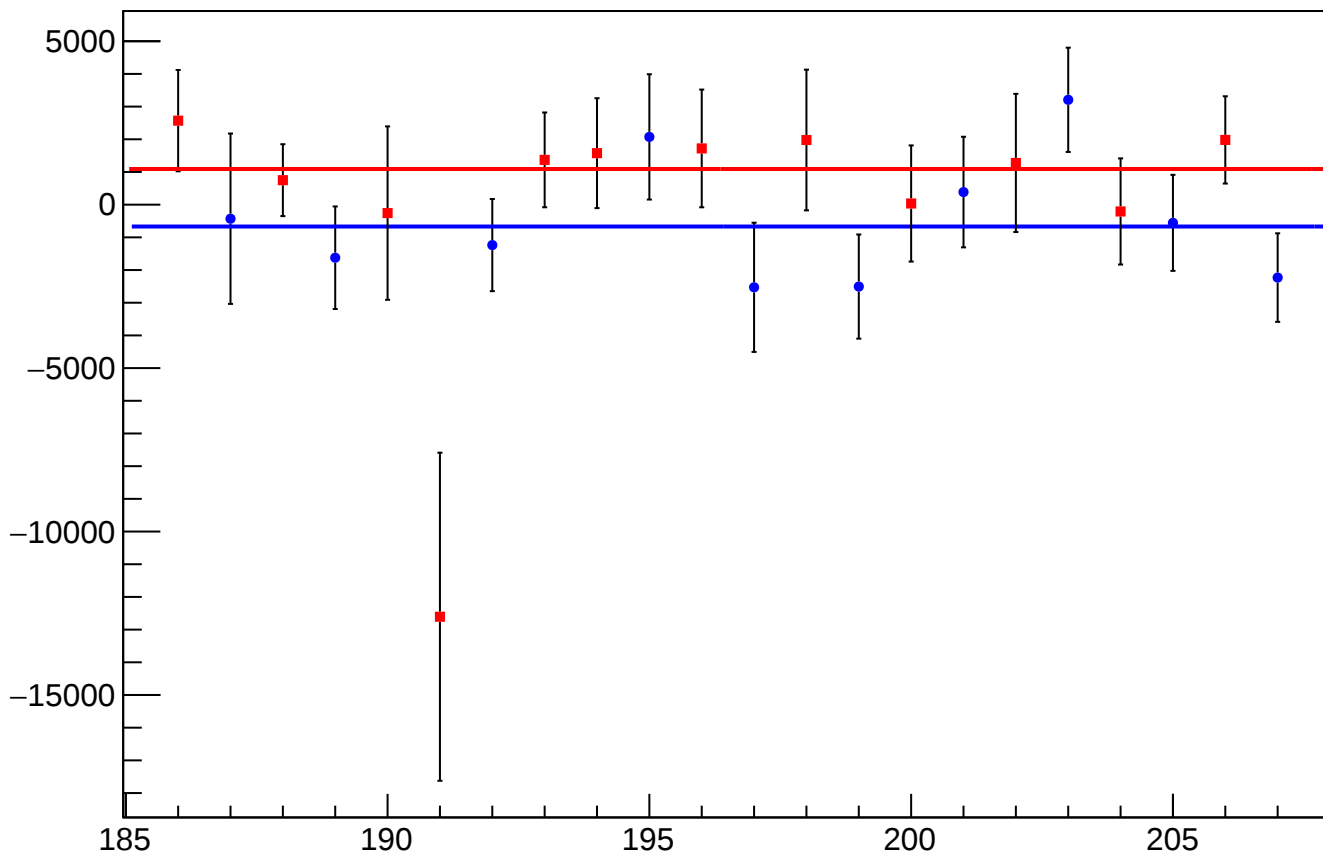
Right: 1368.395+/-0.184 χ^2/NDF : 1626520.9/57

In: 1355.949+/-0.173 χ^2/NDF : 831849.4/49

Out: 1368.064+/-0.170 χ^2/NDF : 1438140.8/55

All: 1362.123+/-0.121 χ^2/NDF : 2272484.1/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -668.686+/-517.778 χ^2/NDF : 12.4/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1091.282+/-484.504 χ^2/NDF : 10.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

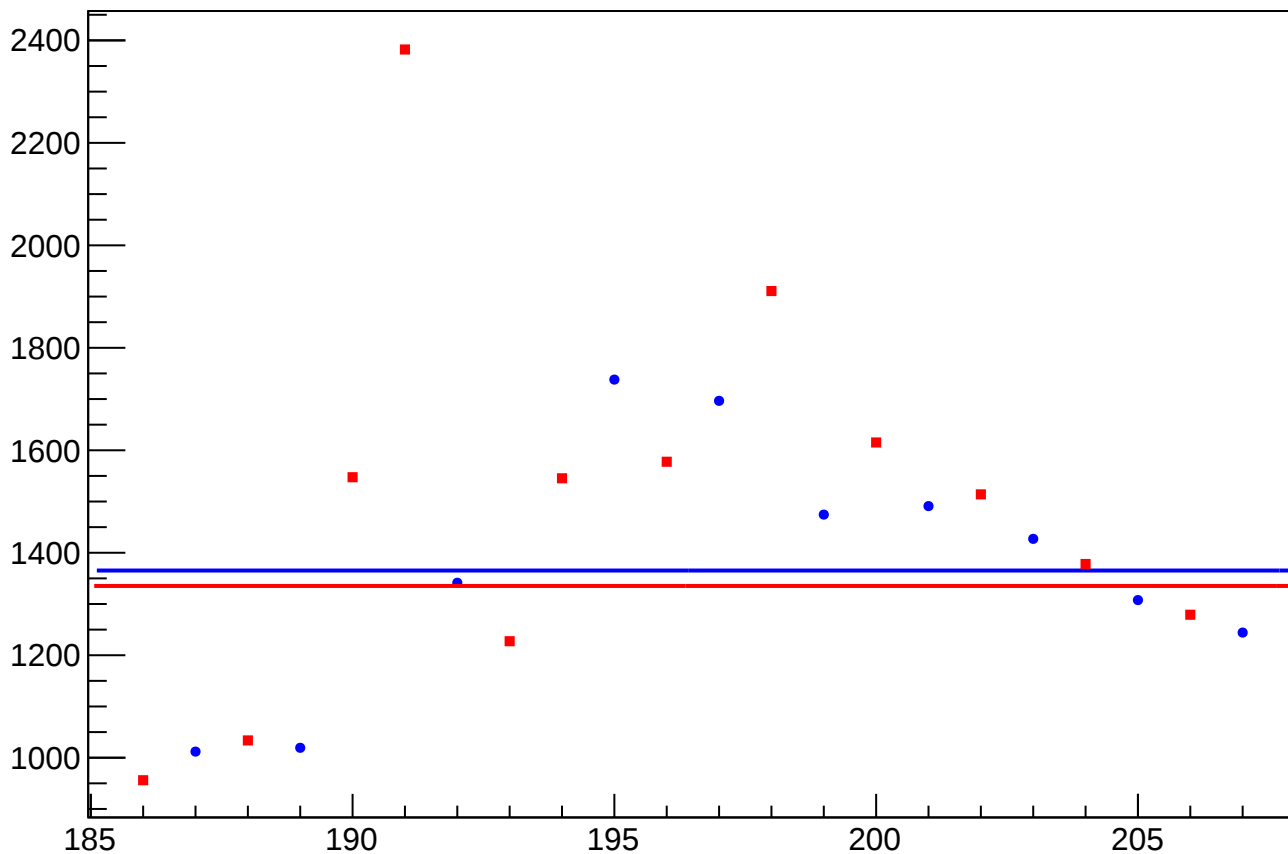
Right: 269.661+/-353.775 χ^2/NDF : 29.2/21

In: -668.686+/-517.778 χ^2/NDF : 12.4/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 269.661+/-353.775 χ^2/NDF : 29.2/21

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1365.348+/-0.366 χ^2/NDF : 308945.0/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1335.239+/-0.343 χ^2/NDF : 660359.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

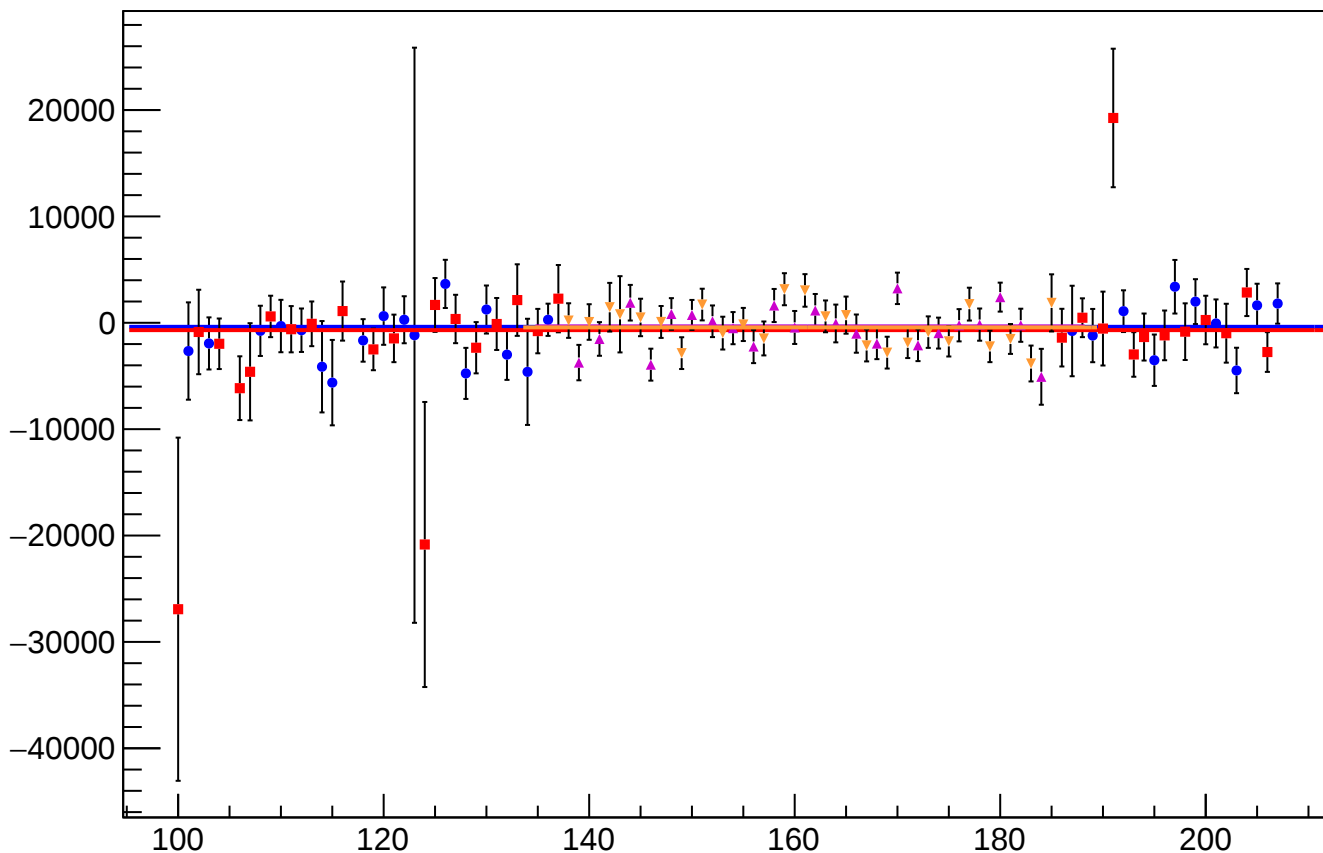
Right: 1349.295+/-0.250 χ^2/NDF : 972910.5/21

In: 1365.348+/-0.366 χ^2/NDF : 308945.0/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1349.295+/-0.250 χ^2/NDF : 972910.5/21

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -379.170+/-461.709 χ^2/NDF : 24.9/26

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -689.206+/-450.735 χ^2/NDF : 29.5/30

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

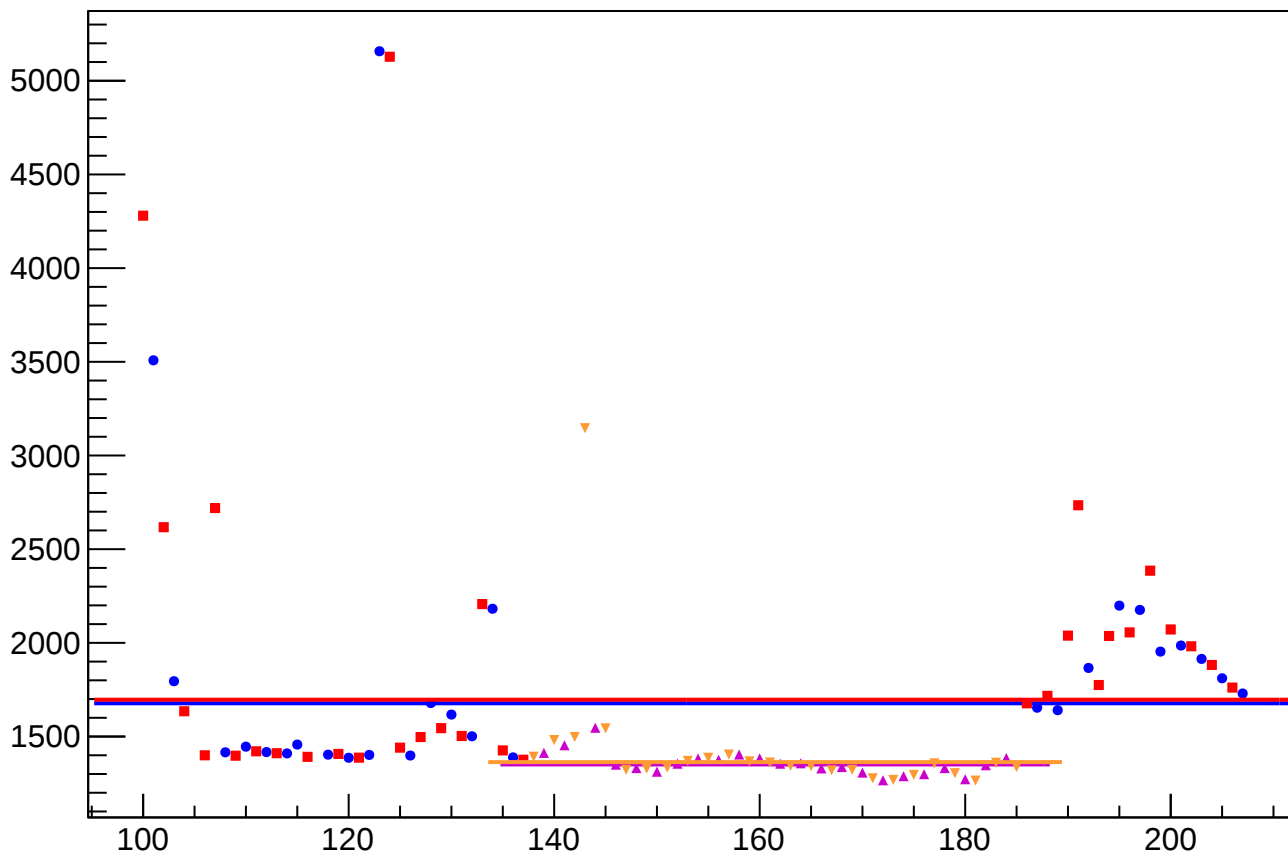
Right: -537.917+/-322.528 χ^2/NDF : 54.6/57

In: -355.446+/-265.416 χ^2/NDF :58.6/49

Out: -518.199+/-261.221 χ^2/NDF :62.8/55

All: -438.119+/-186.177 χ^2/NDF : 121.6/105

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1677.343 $\pm$ 0.326 χ^2 /NDF: 971038.2/26

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1696.634 $\pm$ 0.319 χ^2 /NDF: 1183462.6/30

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

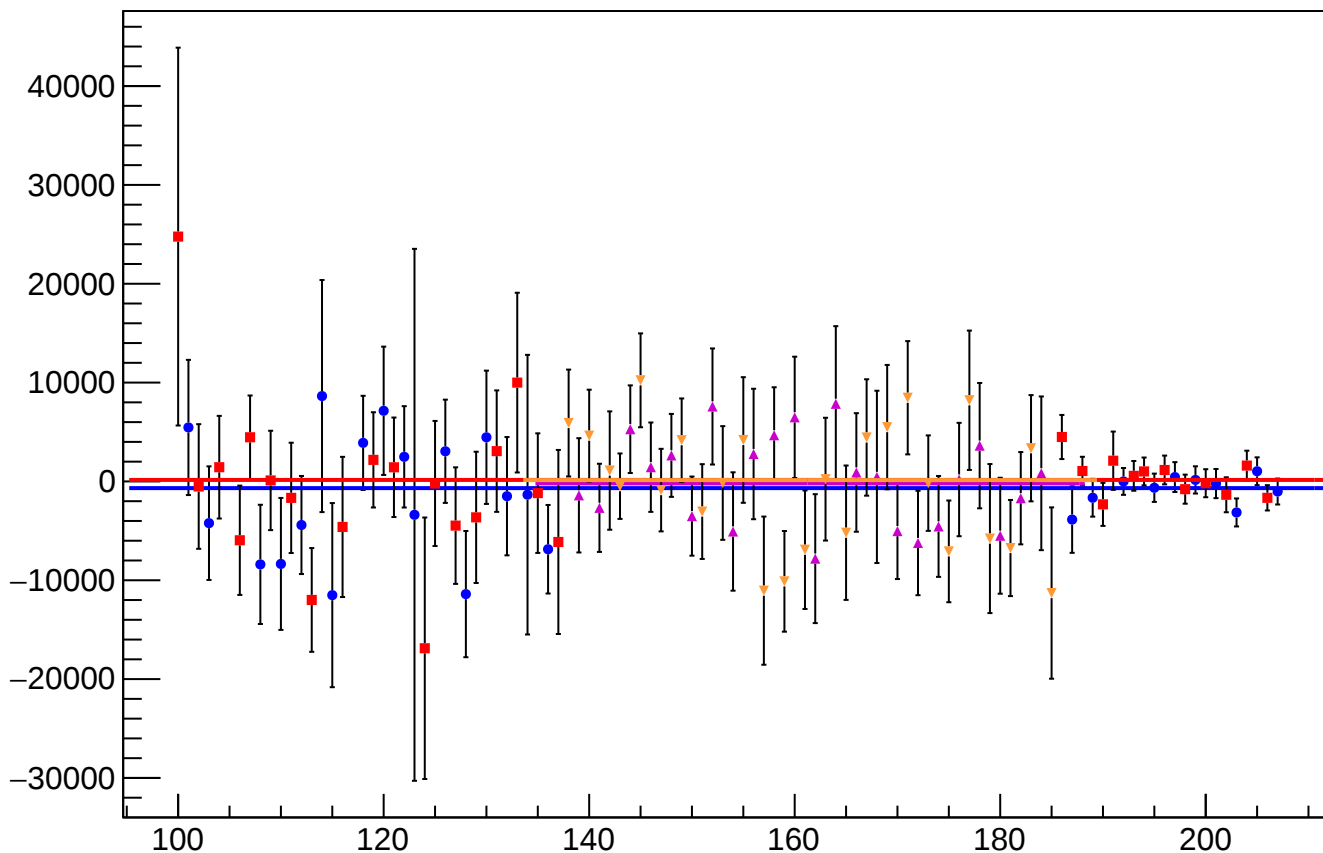
Right: 1687.220 $\pm$ 0.228 χ^2 /NDF: 2156288.4/57

In: 1458.782 $\pm$ 0.188 χ^2 /NDF: 1707547.4/49

Out: 1475.432 $\pm$ 0.185 χ^2 /NDF: 2483994.0/55

All: 1467.240 $\pm$ 0.132 χ^2 /NDF: 4195539.1/100

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -677.104+/-454.644 χ^2/NDF : 22.3/26

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: 151.179+/-435.109 χ^2/NDF : 25.6/30

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

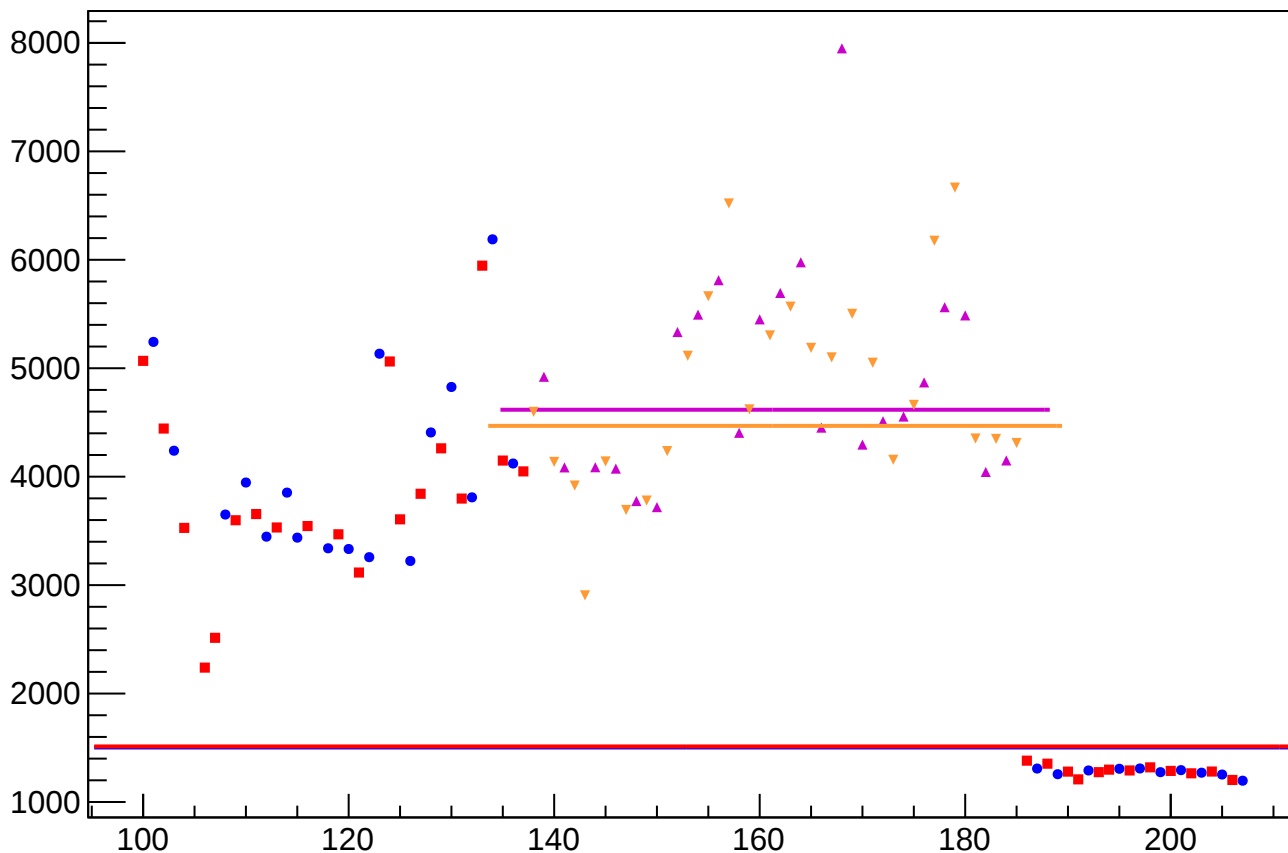
Right: -244.785+/-314.348 χ^2/NDF : 49.6/57

In: -609.995+/-421.445 χ^2/NDF : 37.2/49

Out: 148.459+/-402.819 χ^2/NDF : 53.7/55

All: -213.638+/-291.198 χ^2/NDF : 92.6/105

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1502.838 $\pm$ 0.321 χ^2 /NDF: 5571495.5/26

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 1512.238 $\pm$ 0.307 χ^2 /NDF: 5397317.8/30

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF: 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

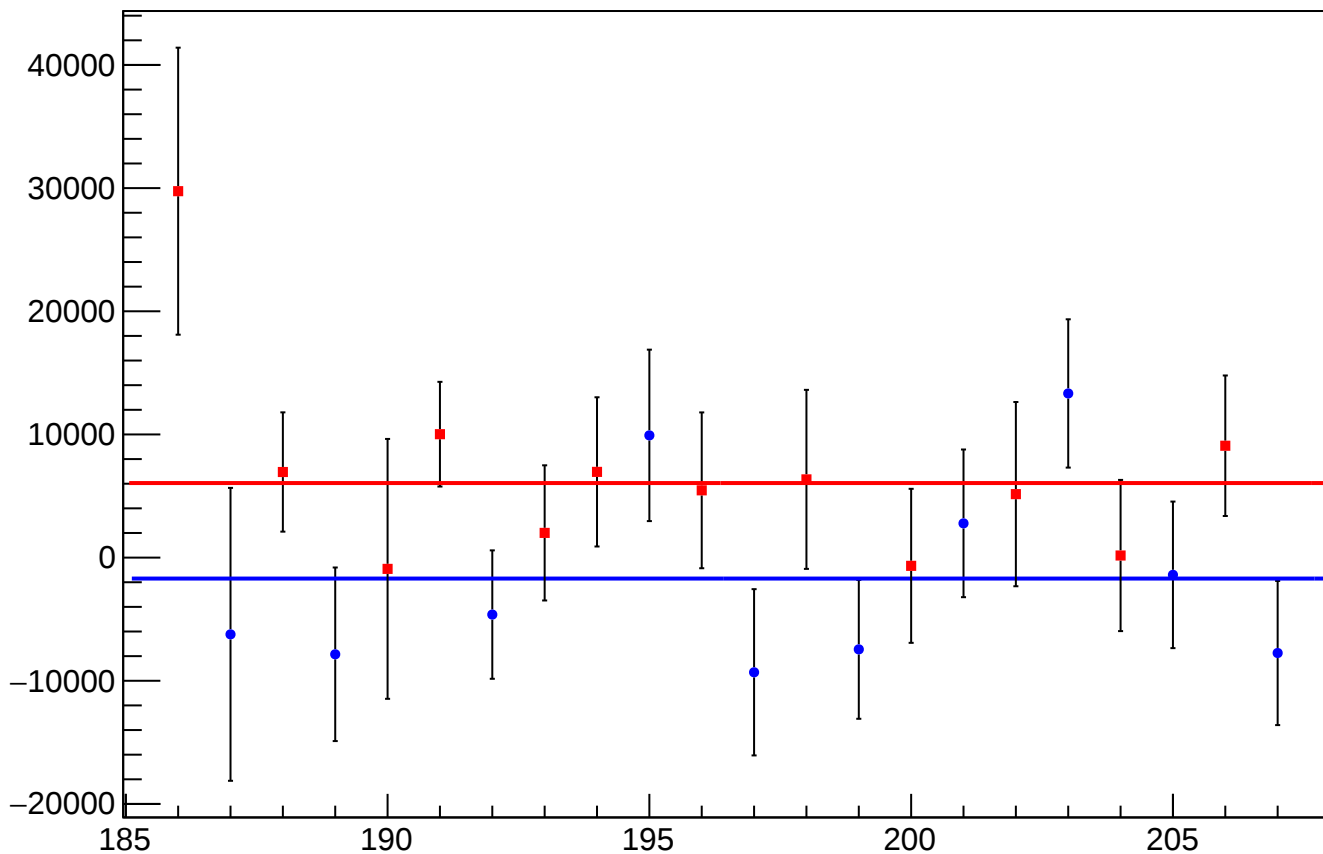
Right: 1507.749 $\pm$ 0.222 χ^2 /NDF: 10969259.9/57

In: 1941.082 $\pm$ 0.298 χ^2 /NDF: 19777569.3/49

Out: 1934.069 $\pm$ 0.285 χ^2 /NDF: 19976211.5/55

All: 1937.414 $\pm$ 0.206 χ^2 /NDF: 39754070.3/102

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1700.683 ± 1996.387 $\chi^2/\text{NDF}: 14.2/9$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Right Out: 6053.642 ± 1769.234 $\chi^2/\text{NDF}: 8.4/11$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

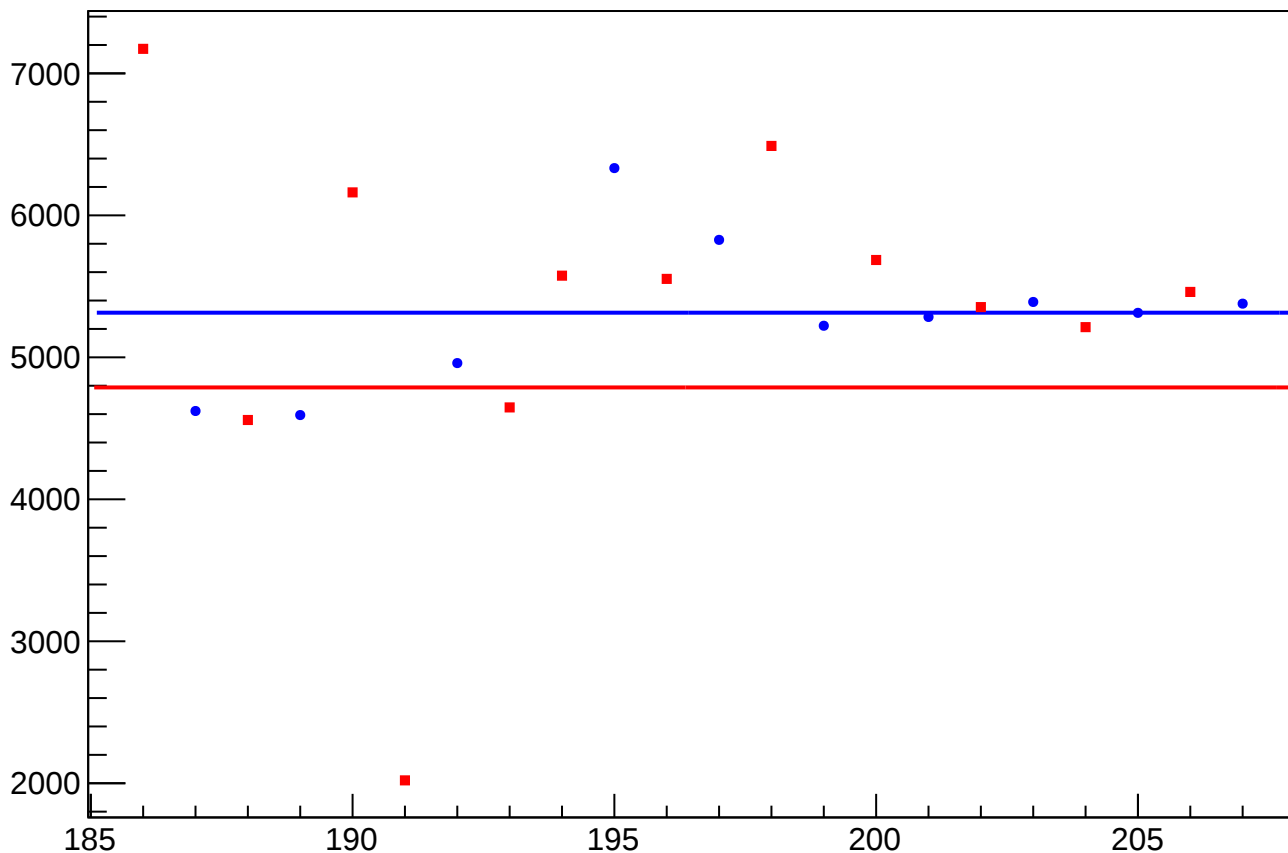
Right: 2642.547 ± 1324.097 $\chi^2/\text{NDF}: 31.1/21$

In: -1700.683 ± 1996.387 $\chi^2/\text{NDF}: 14.2/9$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

All: 2642.547 ± 1324.097 $\chi^2/\text{NDF}: 31.1/21$

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5314.421+/-1.412 χ^2/NDF : 92499.5/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4787.976+/-1.251 χ^2/NDF : 1234325.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

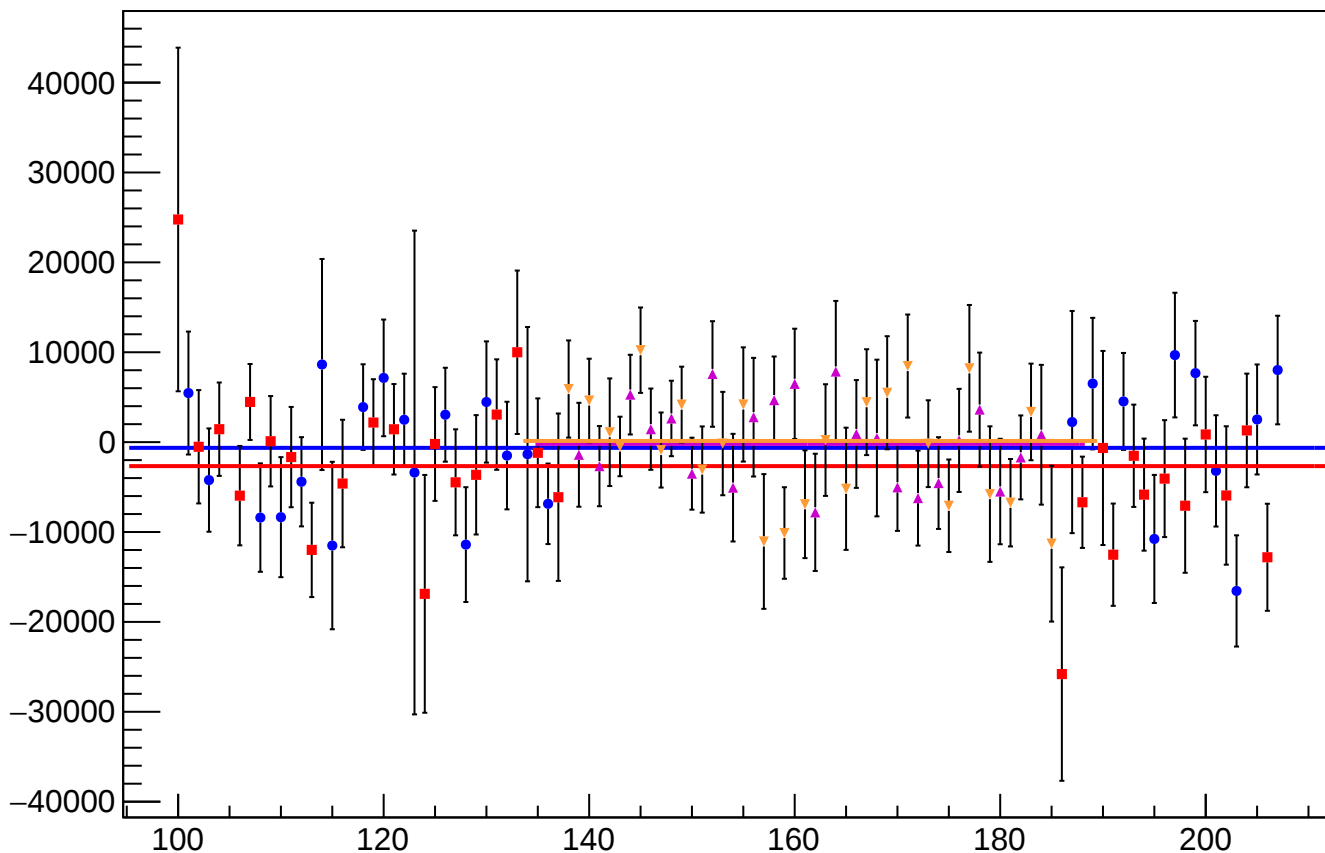
Right: 5019.557+/-0.936 χ^2/NDF : 1404721.1/21

In: 5314.421+/-1.412 χ^2/NDF : 92499.5/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5019.557+/-0.936 χ^2/NDF : 1404721.1/21

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -635.964 $\pm$ 1221.504 χ^2 /NDF: 32.7/26

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: -2668.379 $\pm$ 1116.899 χ^2 /NDF: 27.6/30

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF:14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

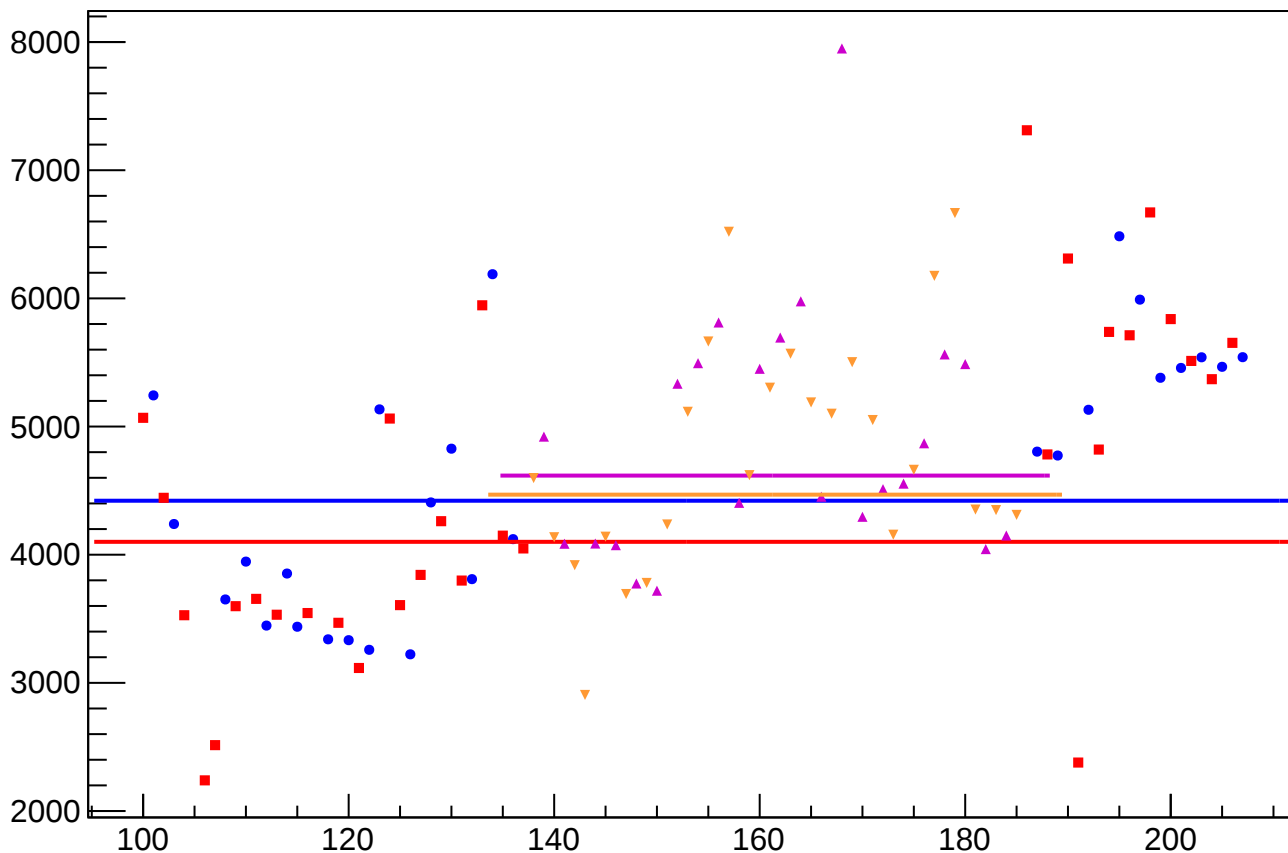
Right: -1742.908 $\pm$ 824.271 χ^2 /NDF: 61.8/57

In: -399.892 $\pm$ 826.914 χ^2 /NDF:47.5/49

Out: -1202.255 $\pm$ 770.969 χ^2 /NDF:59.0/55

All: -829.131 $\pm$ 563.899 χ^2 /NDF: 107.0/105

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4421.160+/-0.864 χ^2/NDF : 1229479.3/26

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 4100.458+/-0.785 χ^2/NDF : 2315879.5/30

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

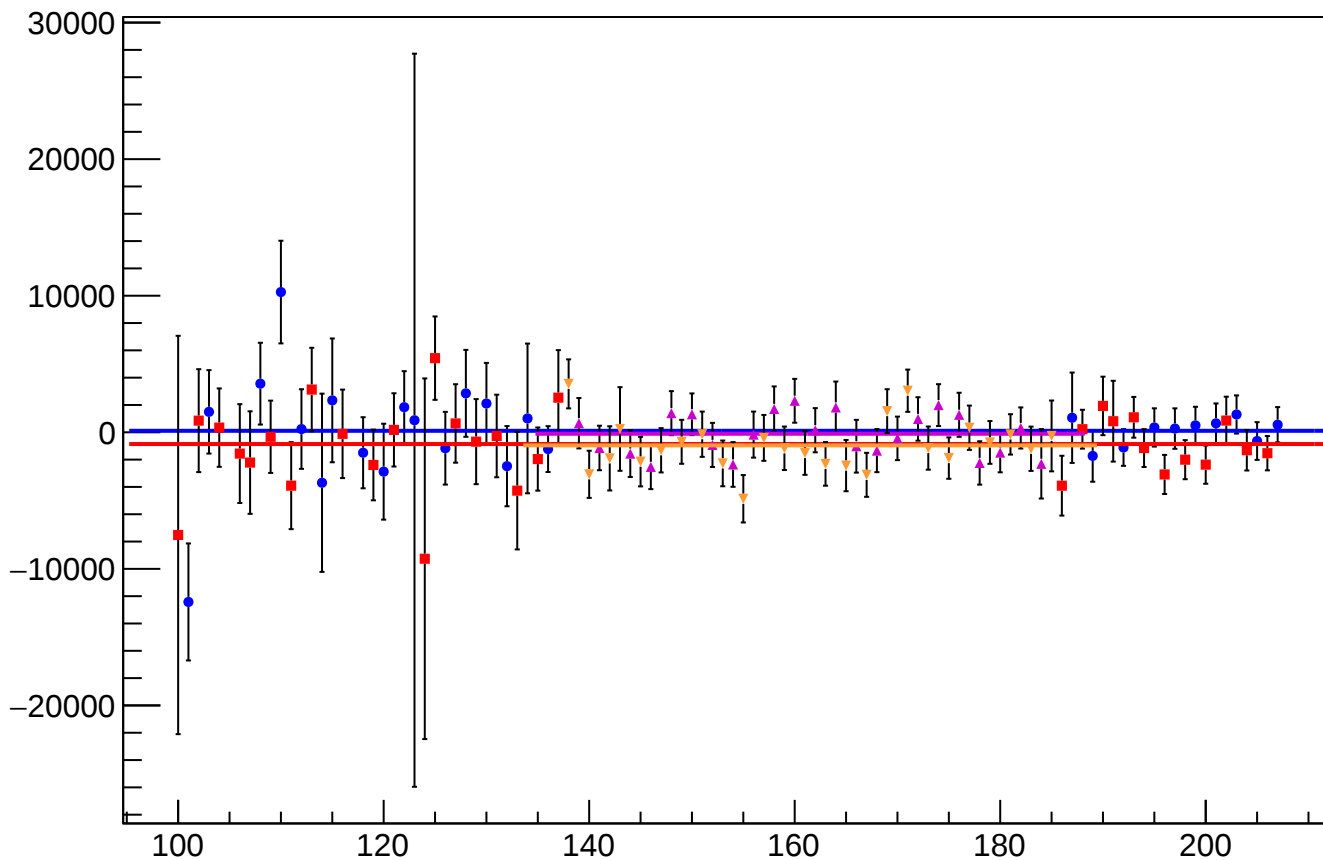
Right: 4245.536+/-0.581 χ^2/NDF : 3620857.3/57

In: 4527.407+/-0.585 χ^2/NDF : 2257012.7/49

Out: 4292.038+/-0.544 χ^2/NDF : 3810901.9/55

All: 4401.156+/-0.398 χ^2/NDF : 6154831.1/100

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 109.213 $\pm$ 398.325 χ^2 /NDF: 25.7/26

Left Out: -958.410 $\pm$ 339.496 χ^2 /NDF:28.5/24

Right Out: -859.862 $\pm$ 384.909 χ^2 /NDF: 22.6/30

Left In: -107.512 $\pm$ 343.663 χ^2 /NDF:19.5/22

Left: -538.150 $\pm$ 241.520 χ^2 /NDF: 51.1/47

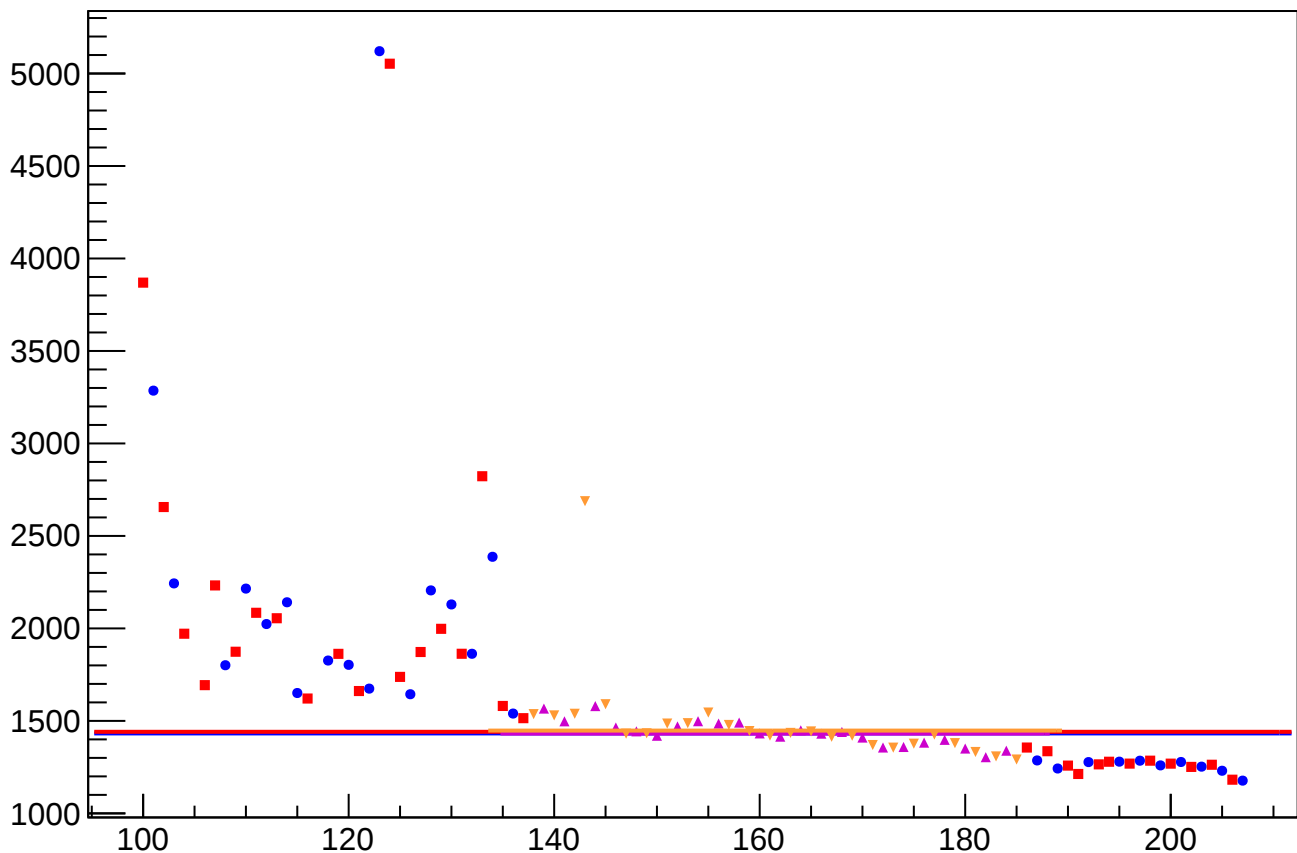
Right: -391.918 $\pm$ 276.793 χ^2 /NDF: 51.3/57

In: -15.029 $\pm$ 260.203 χ^2 /NDF:45.3/49

Out: -915.290 $\pm$ 254.610 χ^2 /NDF:51.2/55

All: -474.940 $\pm$ 181.982 χ^2 /NDF: 102.6/105

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1432.278+/-0.282 χ^2/NDF : 1520935.5/26

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1441.066+/-0.272 χ^2/NDF : 1565215.5/30

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

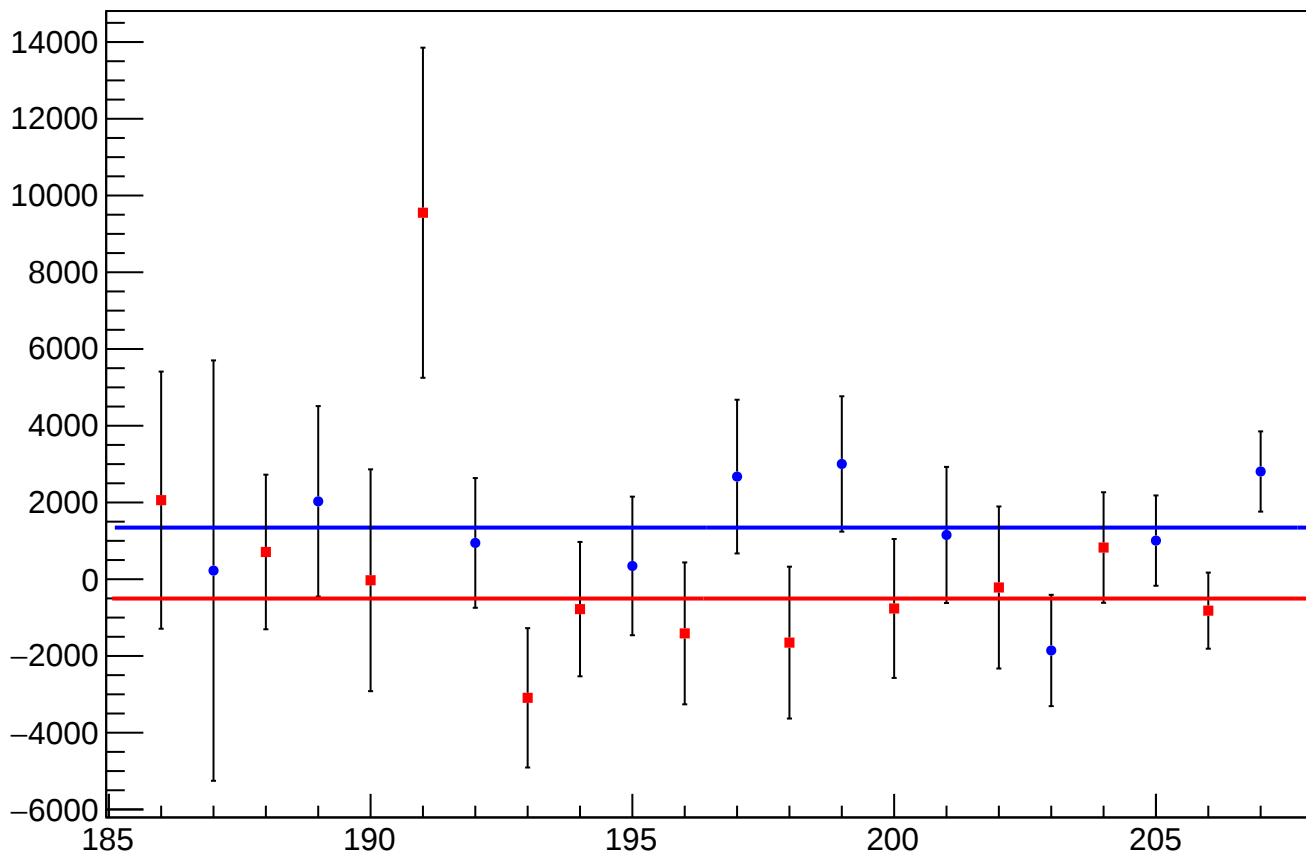
Right: 1436.823+/-0.196 χ^2/NDF : 3086654.4/57

In: 1431.806+/-0.184 χ^2/NDF : 1596070.8/49

Out: 1444.715+/-0.180 χ^2/NDF : 1984789.8/55

All: 1438.401+/-0.129 χ^2/NDF : 3583375.4/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1345.655+/-509.473 χ^2/NDF : 8.7/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -503.770+/-518.877 χ^2/NDF : 10.1/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

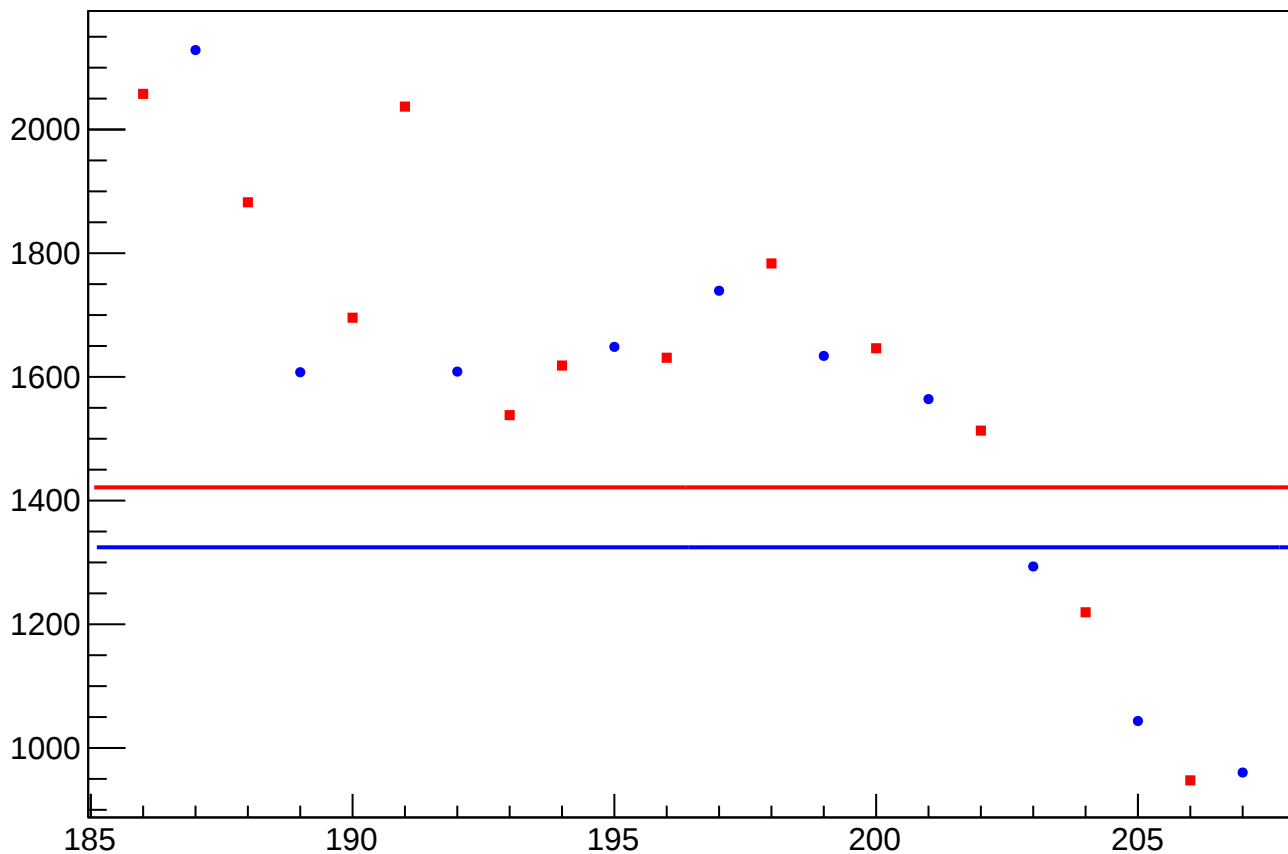
Right: 437.853+/-363.531 χ^2/NDF : 25.3/21

In: 1345.655+/-509.473 χ^2/NDF : 8.7/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 437.853+/-363.531 χ^2/NDF : 25.3/21

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1324.492+/-0.360 χ^2/NDF : 731200.5/9

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1421.407+/-0.367 χ^2/NDF : 892334.8/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

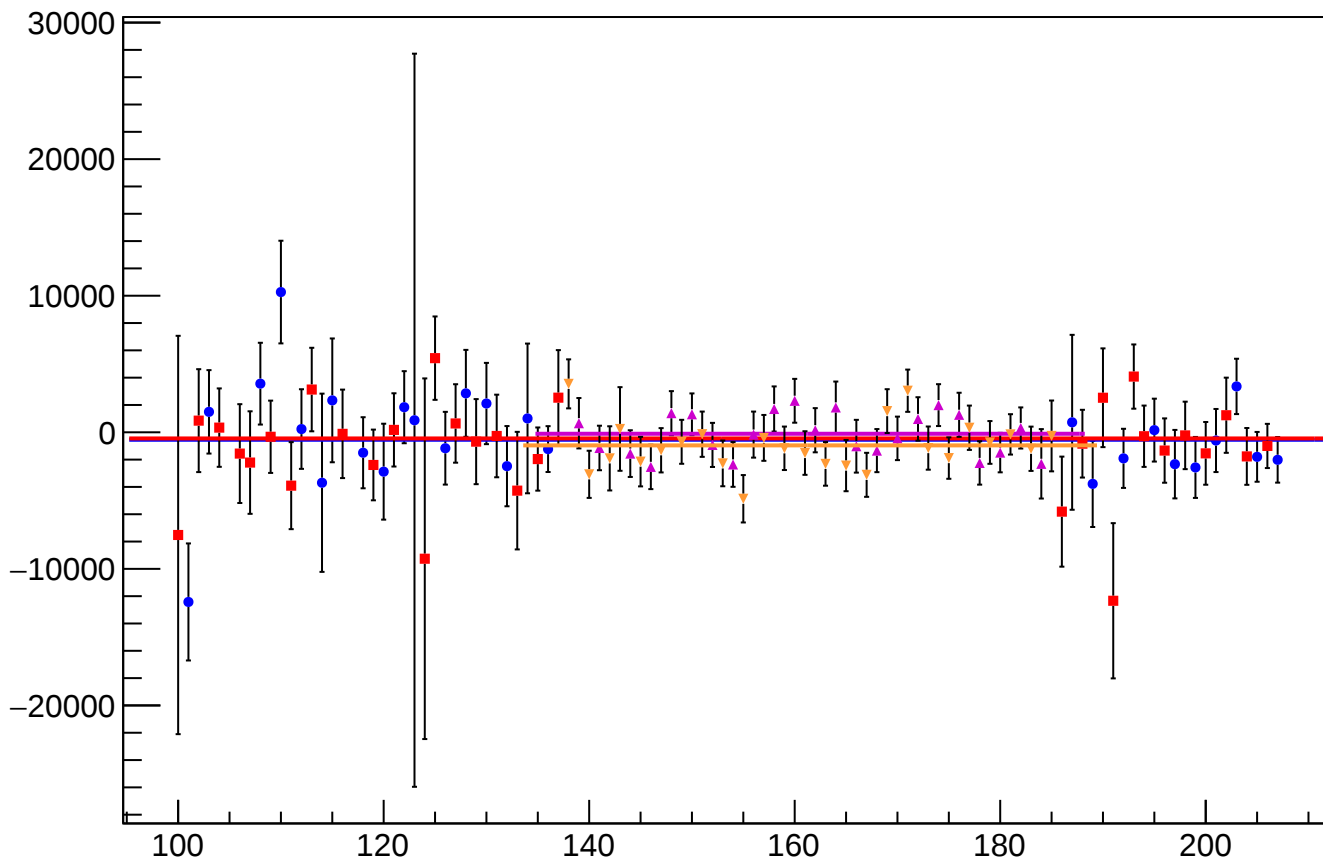
Right: 1372.063+/-0.257 χ^2/NDF : 1659059.5/21

In: 1324.492+/-0.360 χ^2/NDF : 731200.5/9

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1372.063+/-0.257 χ^2/NDF : 1659059.5/21

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -546.936+/-517.024 χ^2/NDF : 30.9/26

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -450.852+/-510.631 χ^2/NDF : 22.0/30

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

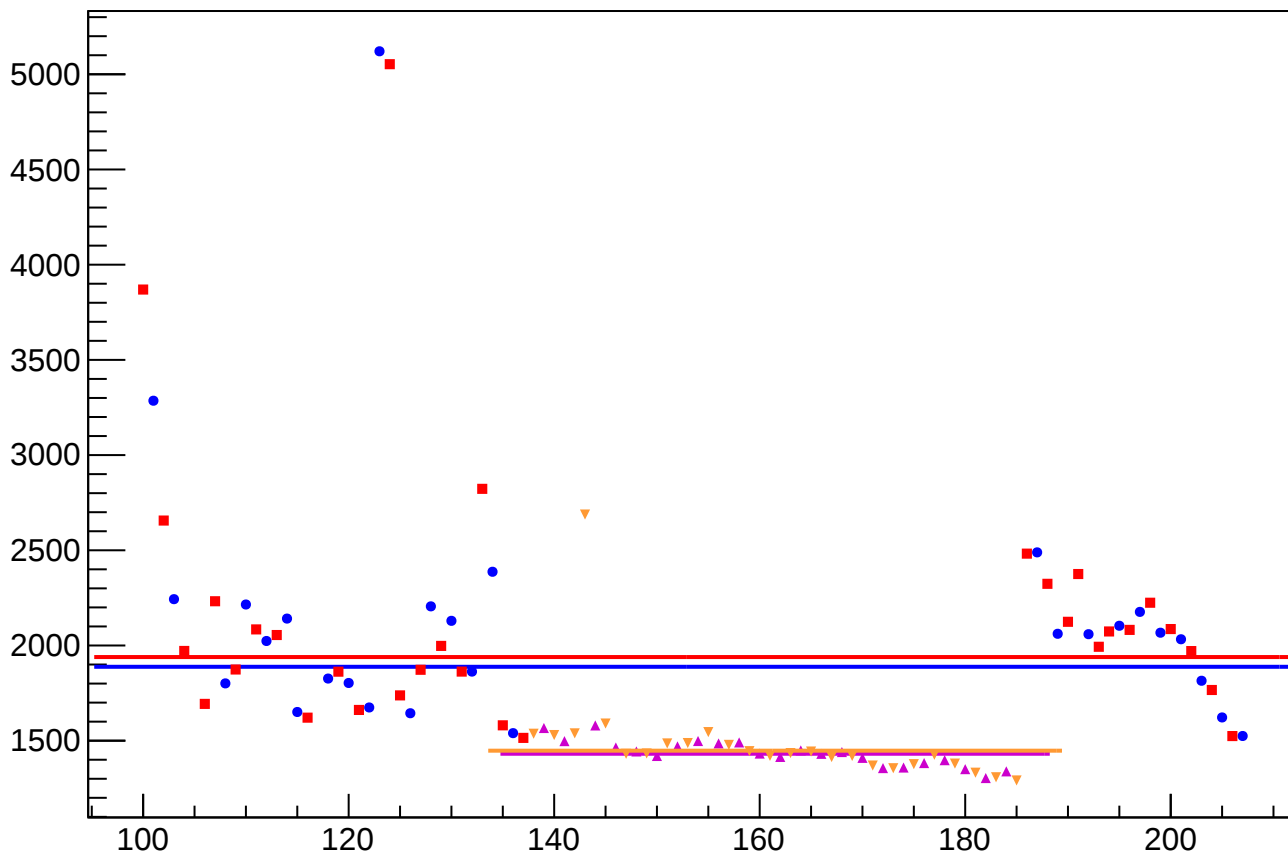
Right: -498.296+/-363.310 χ^2/NDF : 53.0/57

In: -242.166+/-286.205 χ^2/NDF : 50.9/49

Out: -802.826+/-282.714 χ^2/NDF : 51.2/55

All: -525.936+/-201.132 χ^2/NDF : 104.1/105

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1888.144+/-0.366 χ^2/NDF : 707260.5/26

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1939.291+/-0.361 χ^2/NDF : 762465.5/30

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

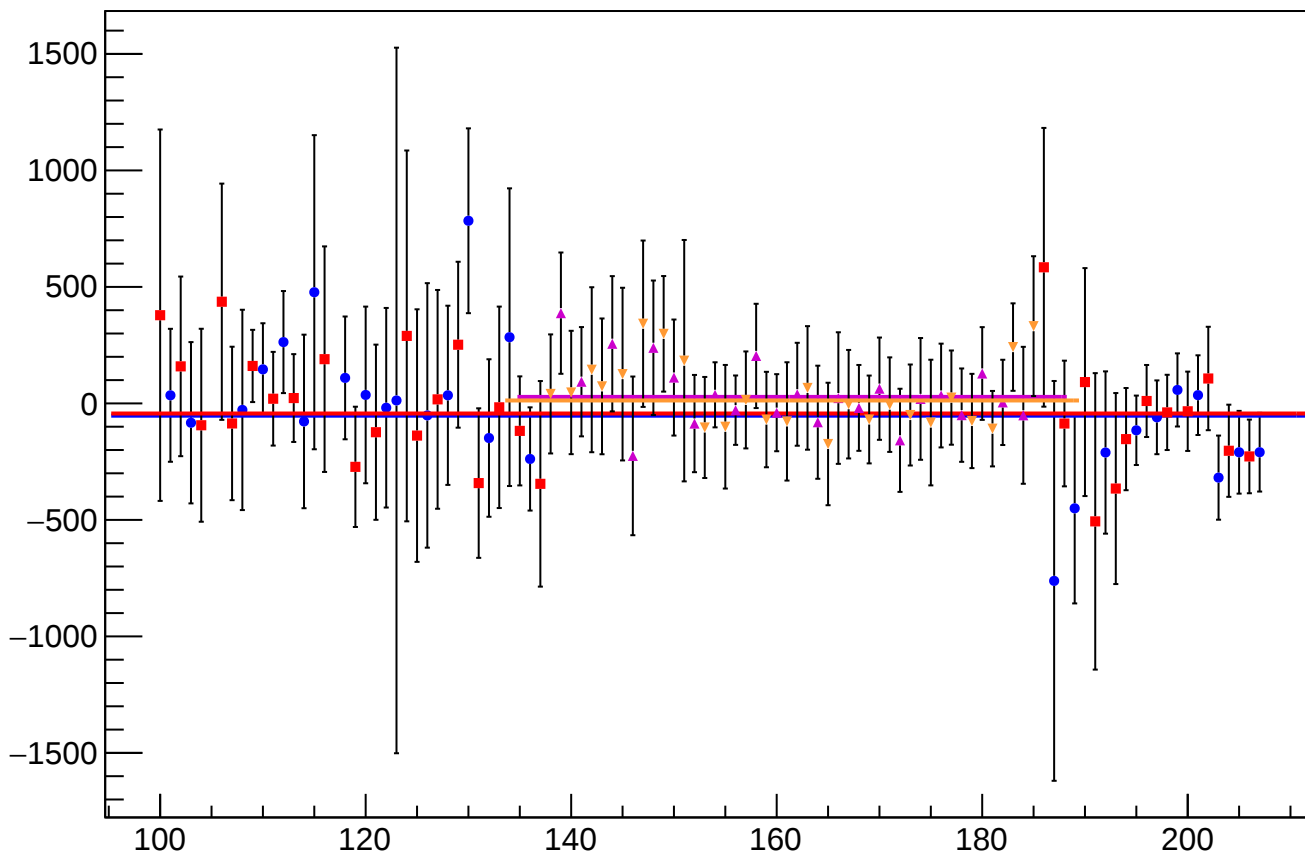
Right: 1914.036+/-0.257 χ^2/NDF : 1479634.1/57

In: 1571.400+/-0.202 χ^2/NDF : 1864673.7/49

Out: 1598.291+/-0.200 χ^2/NDF : 2467926.6/55

All: 1585.011+/-0.142 χ^2/NDF : 4341536.8/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -52.658 ± 48.245 χ^2/NDF : 16.4/26

Left Out: 12.618 ± 47.486 χ^2/NDF : 7.7/24

Right Out: -43.358 ± 46.908 χ^2/NDF : 12.0/30

Left In: 27.921 ± 44.523 χ^2/NDF : 6.5/22

Left: 20.762 ± 32.480 χ^2/NDF : 14.3/47

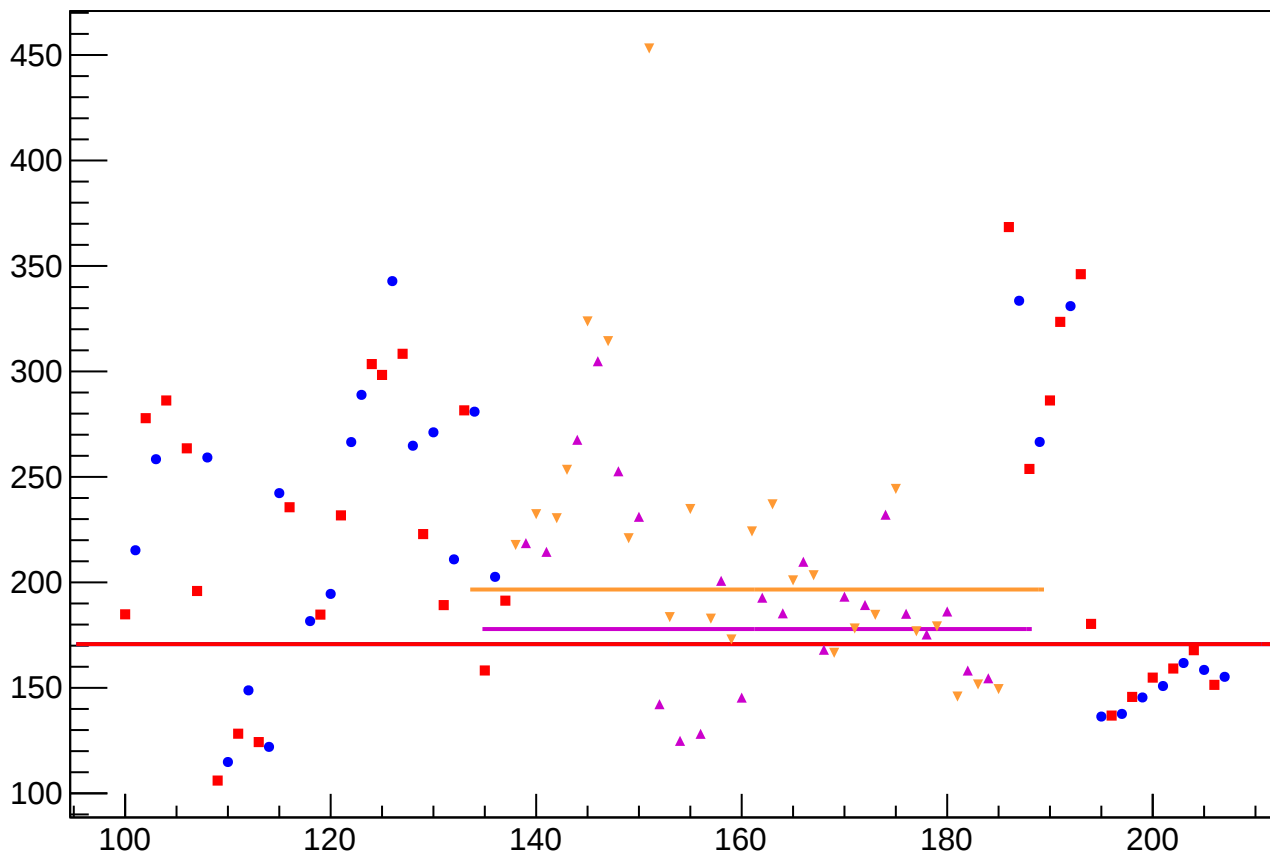
Right: -47.877 ± 33.632 χ^2/NDF : 28.5/57

In: -9.141 ± 32.720 χ^2/NDF : 24.5/49

Out: -15.712 ± 33.372 χ^2/NDF : 20.4/55

All: -12.362 ± 23.363 χ^2/NDF : 44.9/105

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.723+/-0.034 χ^2/NDF : 2091458.5/26

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 170.734+/-0.033 χ^2/NDF : 2773915.4/30

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

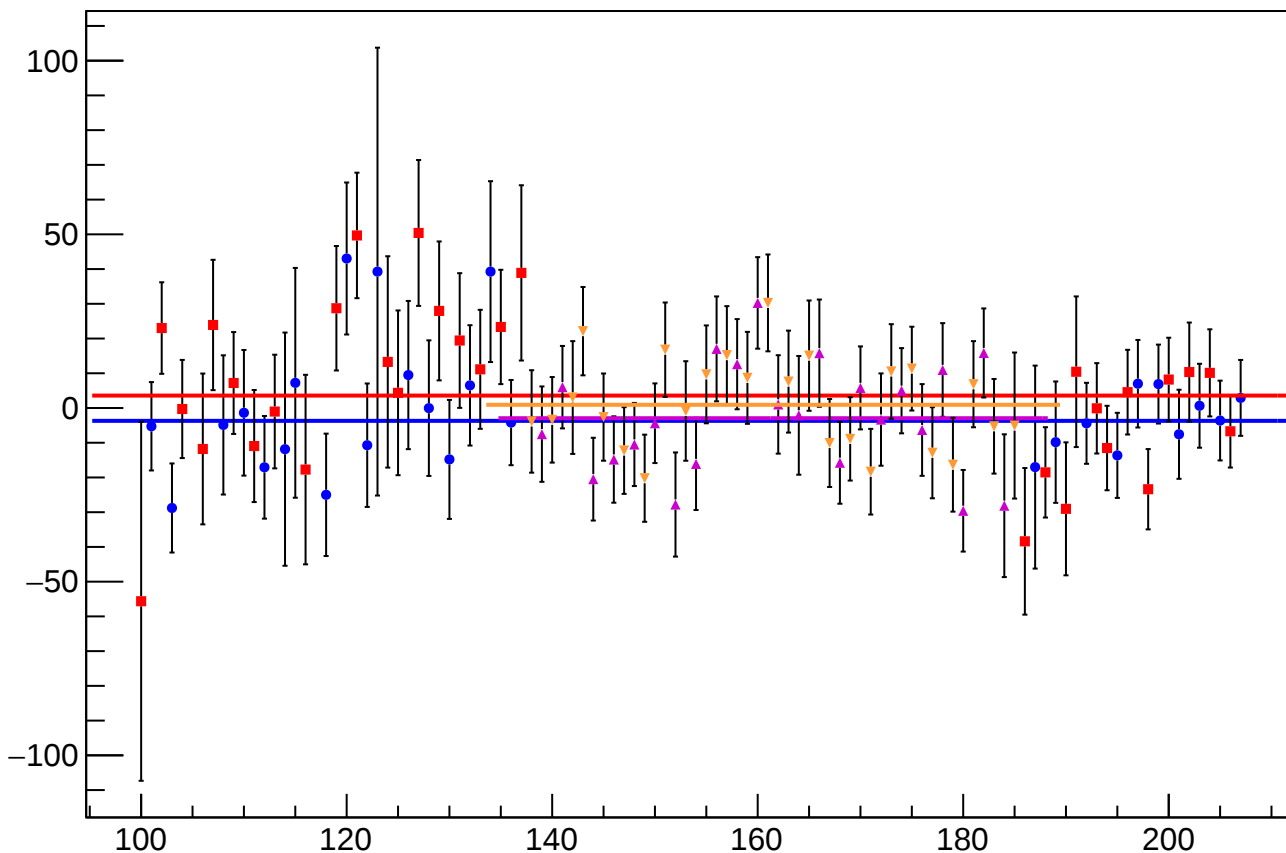
Right: 170.729+/-0.024 χ^2/NDF : 4865374.0/57

In: 174.587+/-0.023 χ^2/NDF :3759297.4/49

Out: 183.519+/-0.024 χ^2/NDF :4868207.7/55

All: 178.965+/-0.017 χ^2/NDF : 8700550.1/105

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.699 ± 2.962 χ^2/NDF : 18.6/26

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 3.579 ± 2.862 χ^2/NDF : 44.6/30

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

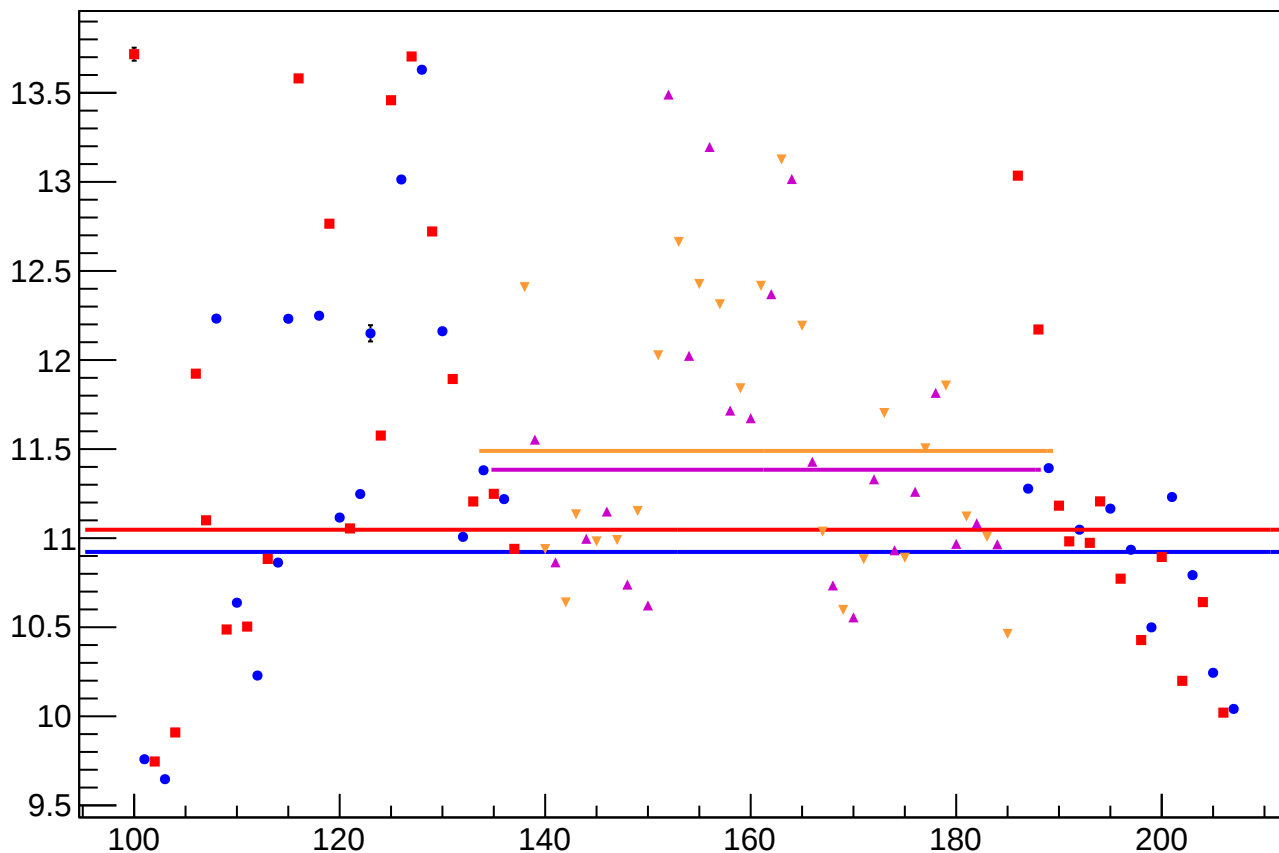
Right: 0.064 ± 2.058 χ^2/NDF : 66.3/57

In: -3.291 ± 2.013 χ^2/NDF : 49.6/49

Out: 2.170 ± 1.963 χ^2/NDF : 69.1/55

All: -0.491 ± 1.405 χ^2/NDF : 122.5/105

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.923+/-0.002 χ^2/NDF : 162869.1/26

Left Out: 11.490+/-0.002 χ^2/NDF : 132399.1/24

Right Out: 11.047+/-0.002 χ^2/NDF : 222500.8/30

Left In: 11.384+/-0.002 χ^2/NDF : 149799.6/22

Left: 11.438+/-0.001 χ^2/NDF : 283707.5/47

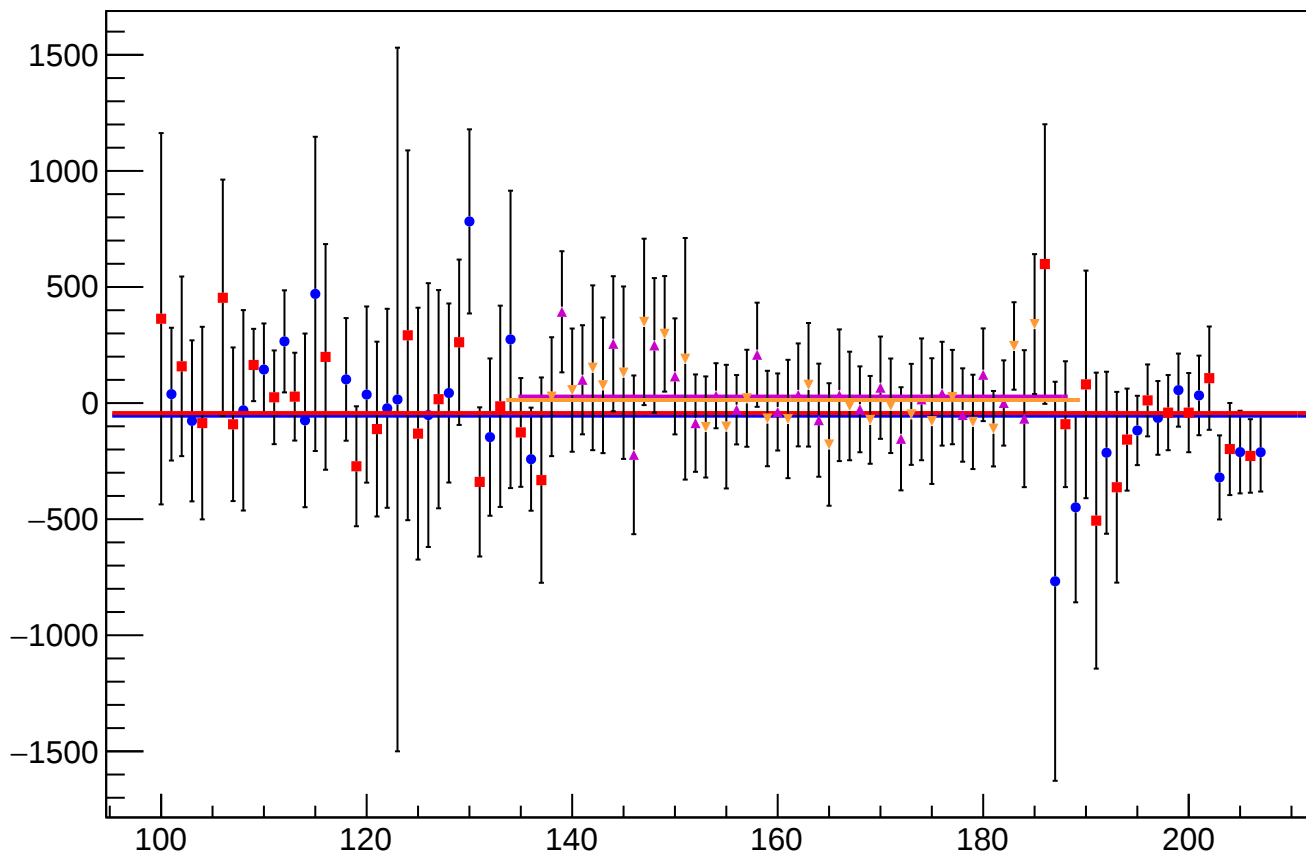
Right: 10.987+/-0.001 χ^2/NDF : 387198.8/57

In: 11.171+/-0.001 χ^2/NDF : 338774.7/49

Out: 11.282+/-0.001 χ^2/NDF : 380225.8/55

All: 11.228+/-0.001 χ^2/NDF : 722107.1/105

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.273 ± 48.369 χ^2/NDF : 16.4/26

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -42.881 ± 47.035 χ^2/NDF : 12.2/30

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

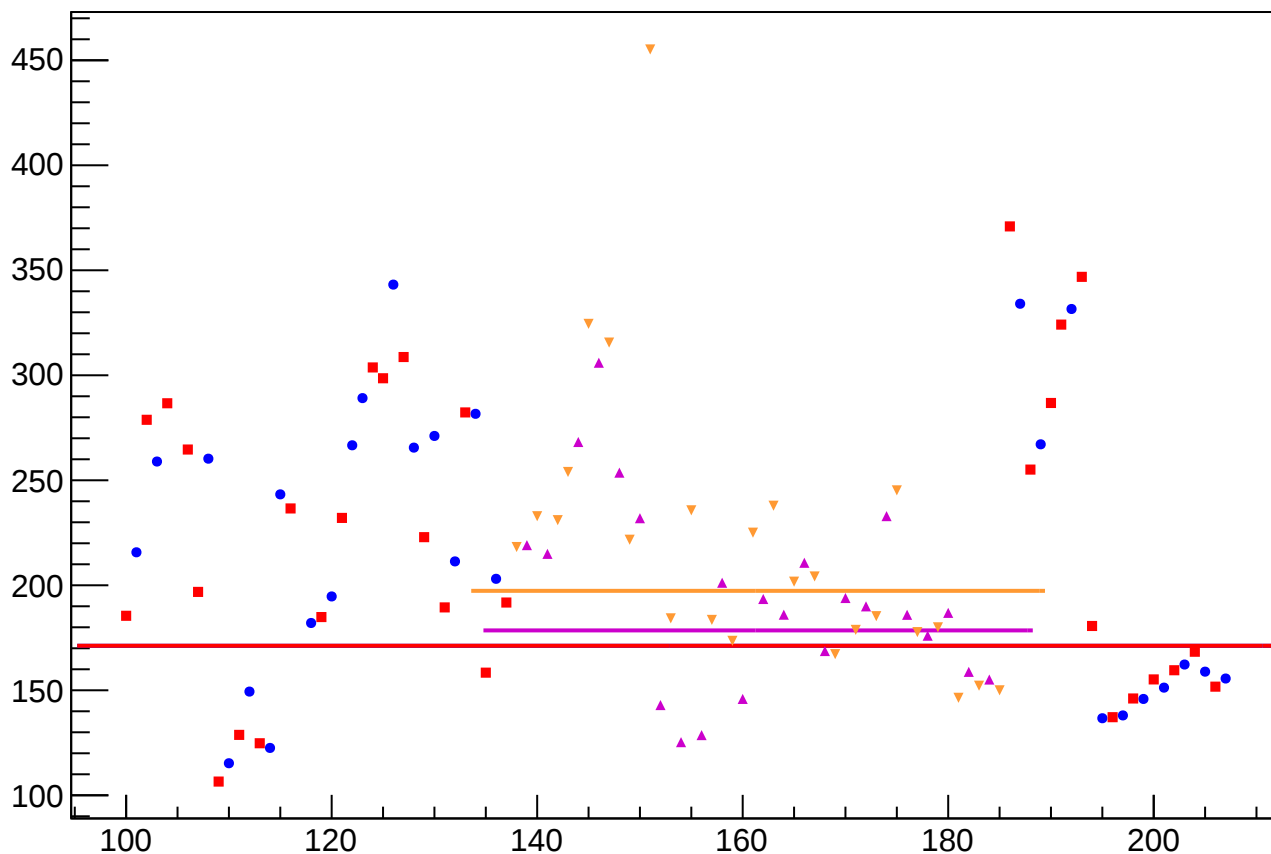
Right: -48.418 ± 33.721 χ^2/NDF : 28.6/57

In: -9.854 ± 32.821 χ^2/NDF : 24.6/49

Out: -15.152 ± 33.478 χ^2/NDF : 20.7/55

All: -12.450 ± 23.437 χ^2/NDF : 45.3/105

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.180 $\pm$ 0.034 χ^2 /NDF: 2086289.9/26

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 171.207 $\pm$ 0.033 χ^2 /NDF: 2770280.3/30

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

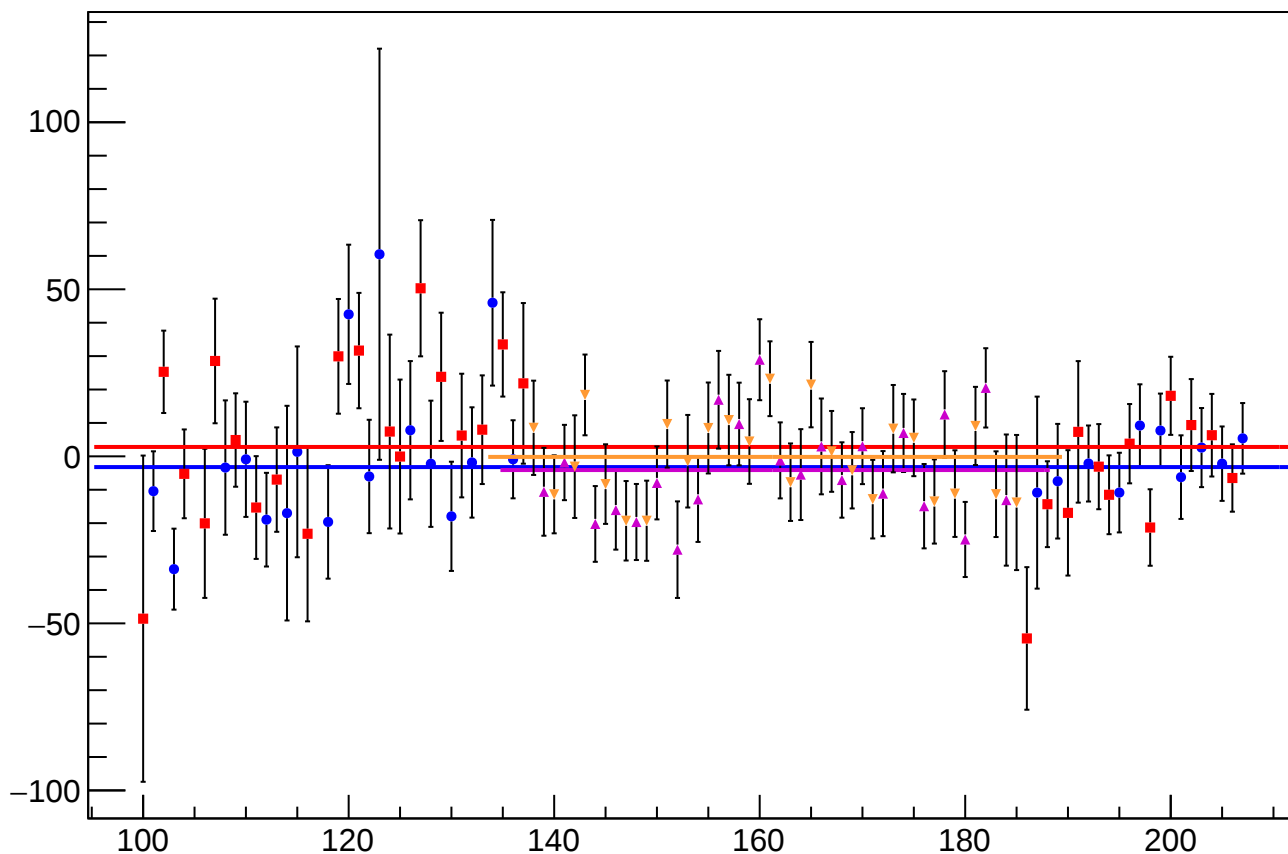
Right: 171.194 $\pm$ 0.024 χ^2 /NDF: 4856570.5/57

In: 175.136 $\pm$ 0.023 χ^2 /NDF:3753393.3/49

Out: 184.108 $\pm$ 0.024 χ^2 /NDF:4866070.2/55

All: 179.533 $\pm$ 0.017 χ^2 /NDF: 8692708.6/105

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.216 ± 2.859 $\chi^2/\text{NDF}: 23.6/26$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 2.809 ± 2.770 $\chi^2/\text{NDF}: 46.3/30$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

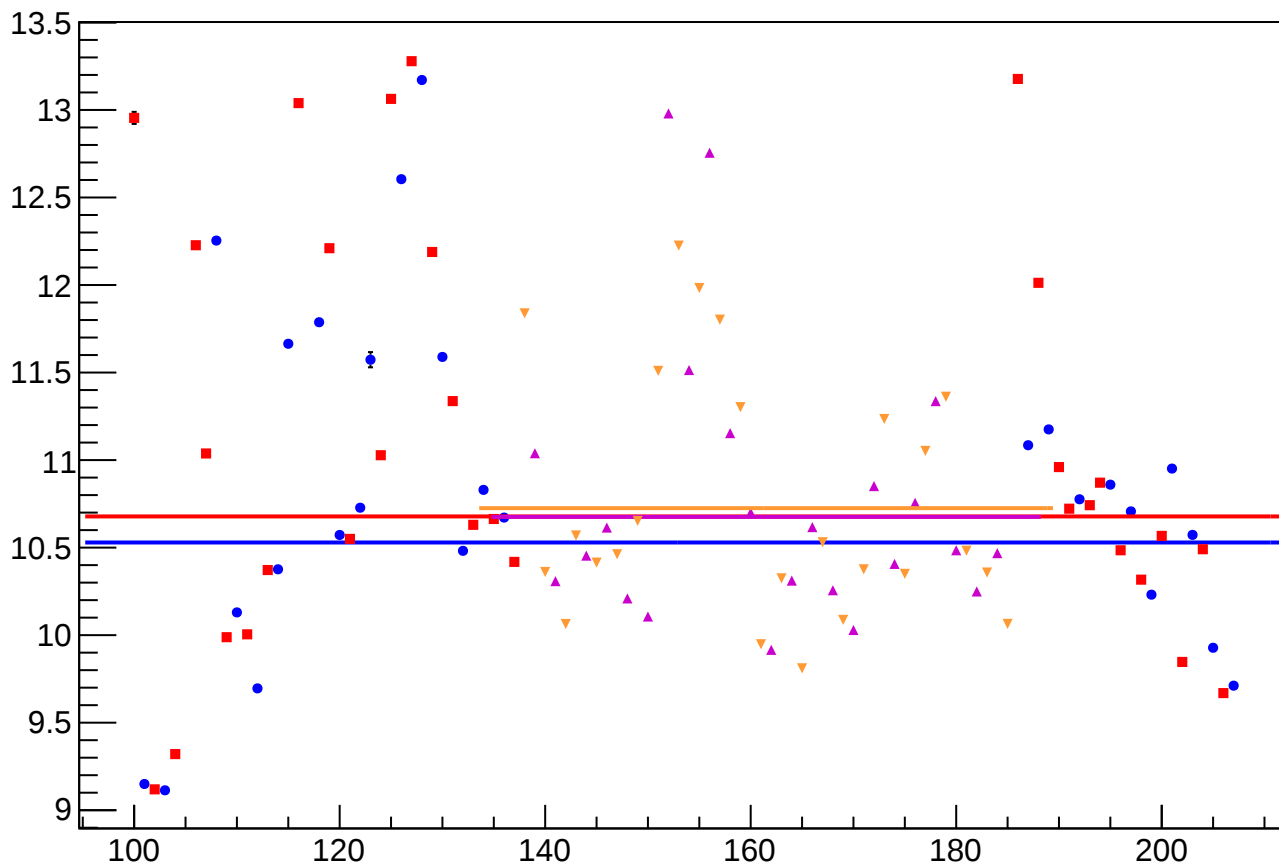
Right: -0.109 ± 1.989 $\chi^2/\text{NDF}: 72.2/57$

In: -3.707 ± 1.914 $\chi^2/\text{NDF}: 55.2/49$

Out: 1.179 ± 1.864 $\chi^2/\text{NDF}: 71.3/55$

All: -1.200 ± 1.336 $\chi^2/\text{NDF}: 129.9/105$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.529 $\pm$ 0.002 χ^2 /NDF: 187647.1/26

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.678 $\pm$ 0.002 χ^2 /NDF: 259329.6/30

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

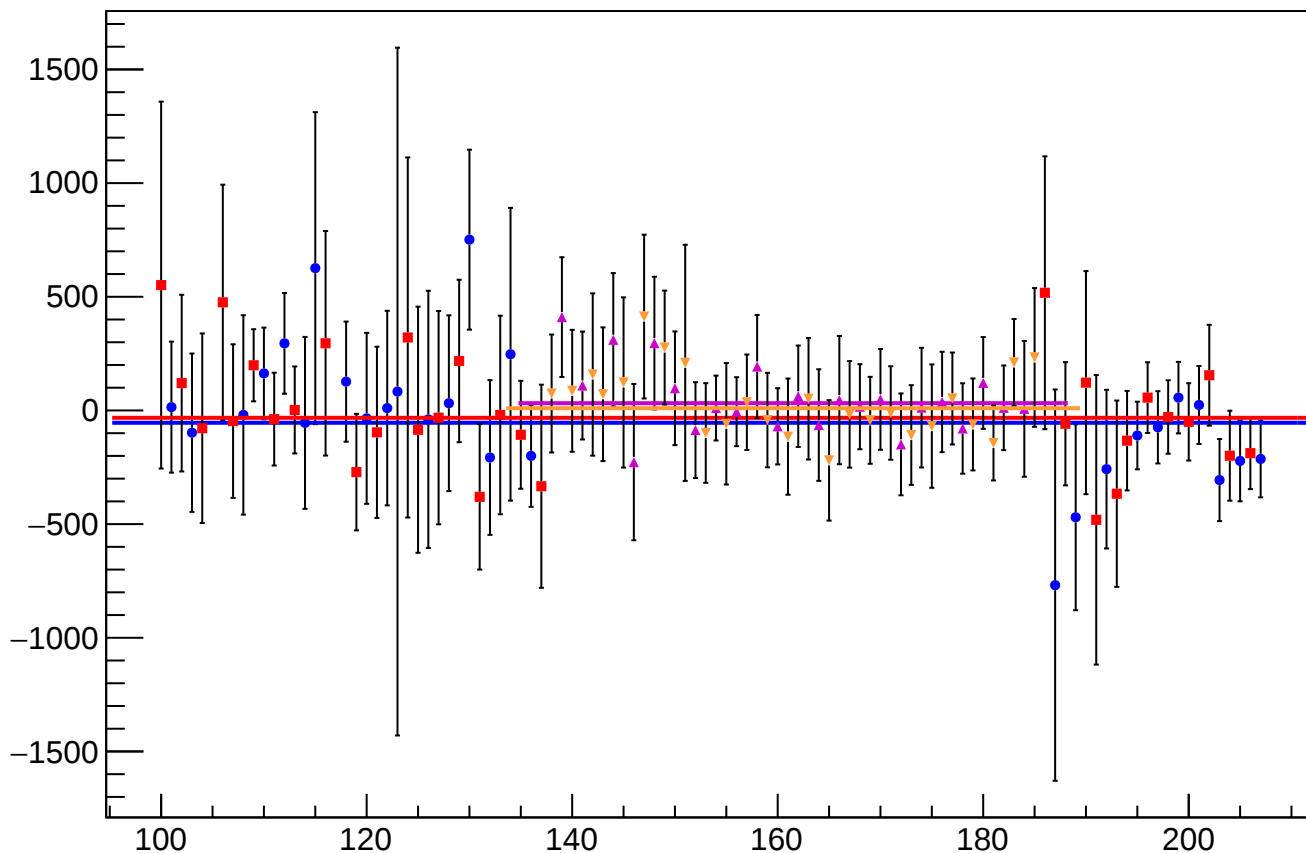
Right: 10.606 $\pm$ 0.001 χ^2 /NDF: 449772.6/57

In: 10.610 $\pm$ 0.001 χ^2 /NDF:336468.5/49

Out: 10.704 $\pm$ 0.001 χ^2 /NDF:391819.9/55

All: 10.658 $\pm$ 0.001 χ^2 /NDF: 730770.0/105

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.160 ± 48.443 χ^2/NDF : 16.9/26

Left Out: 9.801 ± 47.979 χ^2/NDF : 7.5/24

Right Out: -32.367 ± 47.204 χ^2/NDF : 12.6/30

Left In: 31.989 ± 45.038 χ^2/NDF : 7.2/22

Left: 21.596 ± 32.837 χ^2/NDF : 14.8/47

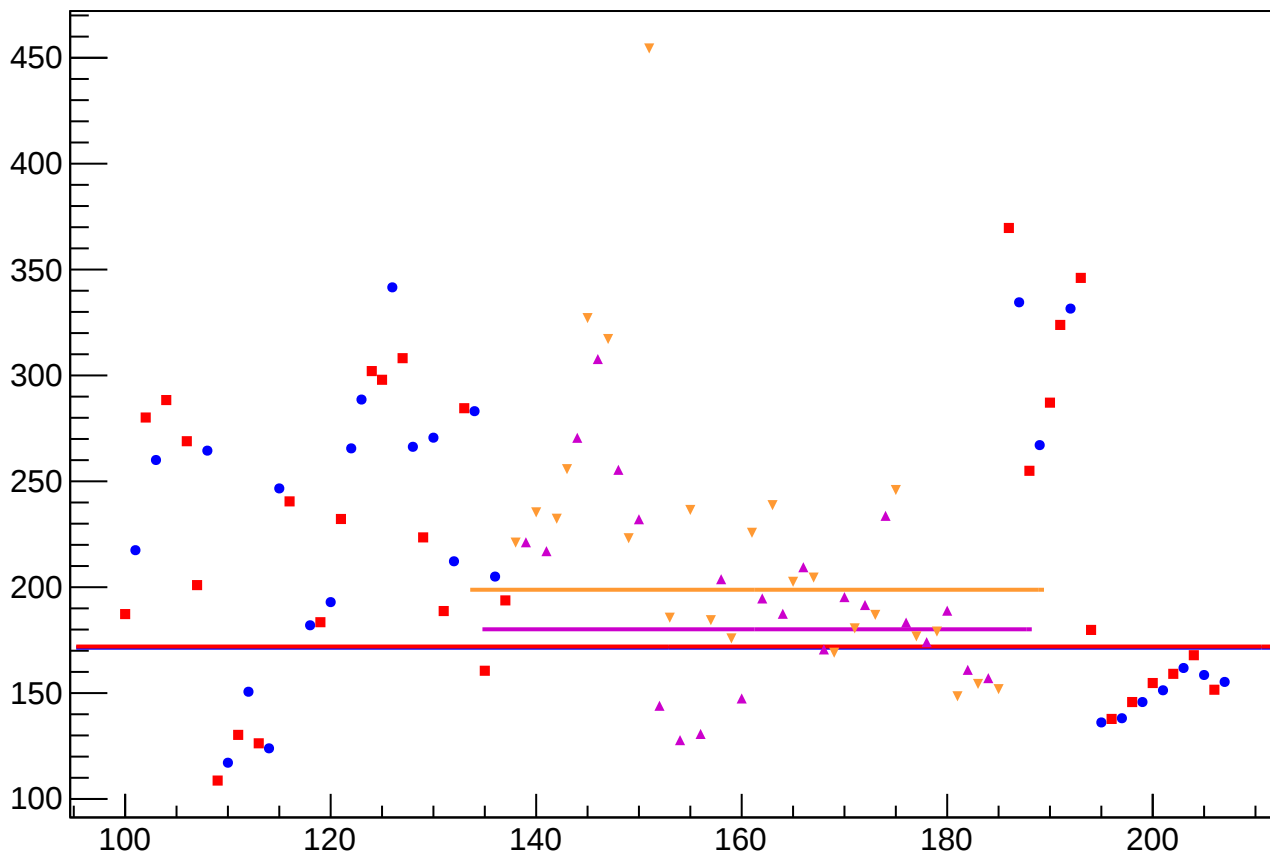
Right: -42.981 ± 33.808 χ^2/NDF : 29.6/57

In: -7.953 ± 32.985 χ^2/NDF : 25.8/49

Out: -11.626 ± 33.649 χ^2/NDF : 20.6/55

All: -9.753 ± 23.555 χ^2/NDF : 46.3/105

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.435+/-0.034 χ^2/NDF : 2086490.6/26

Left Out: 198.800+/-0.034 χ^2/NDF :1763119.1/24

Right Out: 171.983+/-0.033 χ^2/NDF : 2728415.4/30

Left In: 180.123+/-0.032 χ^2/NDF :1593842.6/22

Left: 188.872+/-0.023 χ^2/NDF : 3518071.9/47

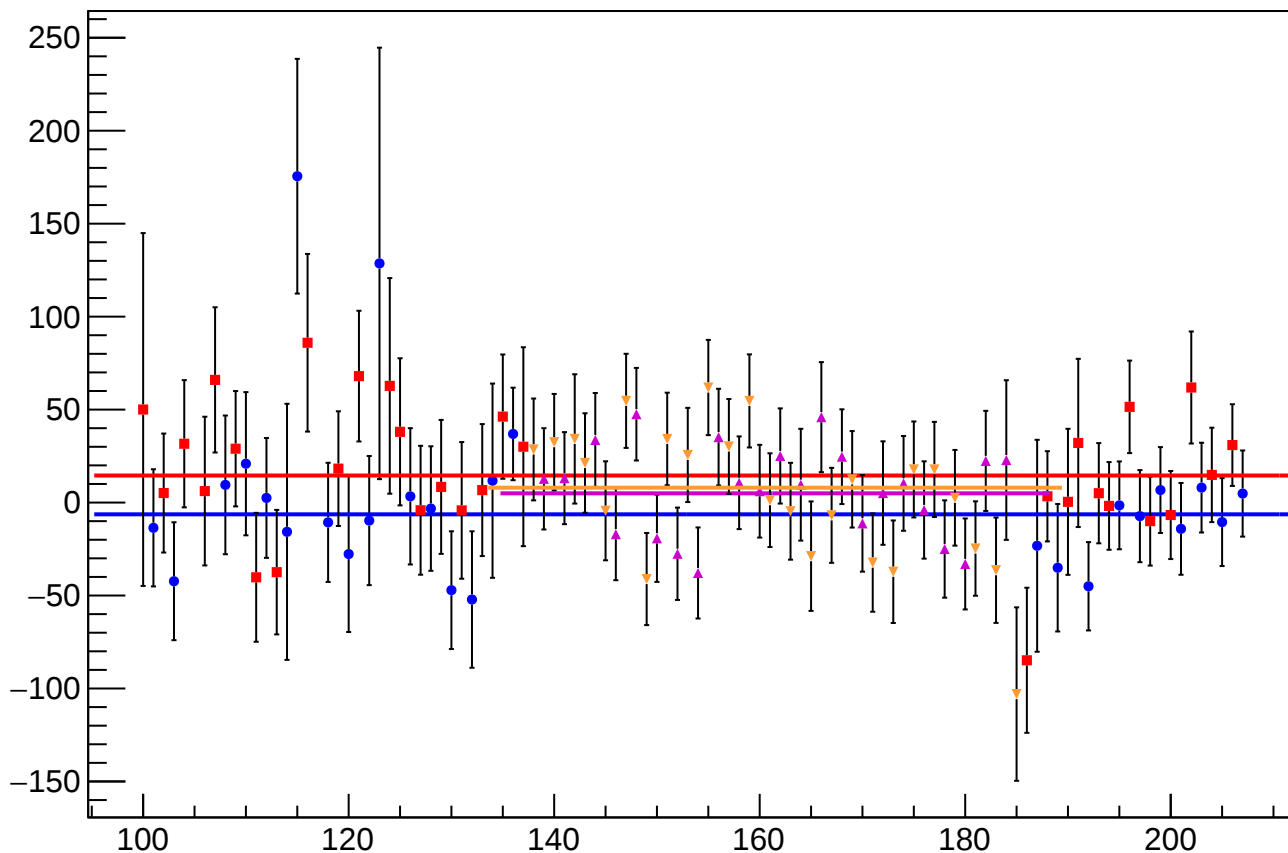
Right: 171.716+/-0.024 χ^2/NDF : 4815037.2/57

In: 176.095+/-0.023 χ^2/NDF :3714835.8/49

Out: 185.173+/-0.024 χ^2/NDF :4809031.2/55

All: 180.544+/-0.017 χ^2/NDF : 8598106.4/105

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.328 ± 5.991 $\chi^2/\text{NDF}: 23.0/26$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 14.554 ± 5.760 $\chi^2/\text{NDF}: 29.3/30$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

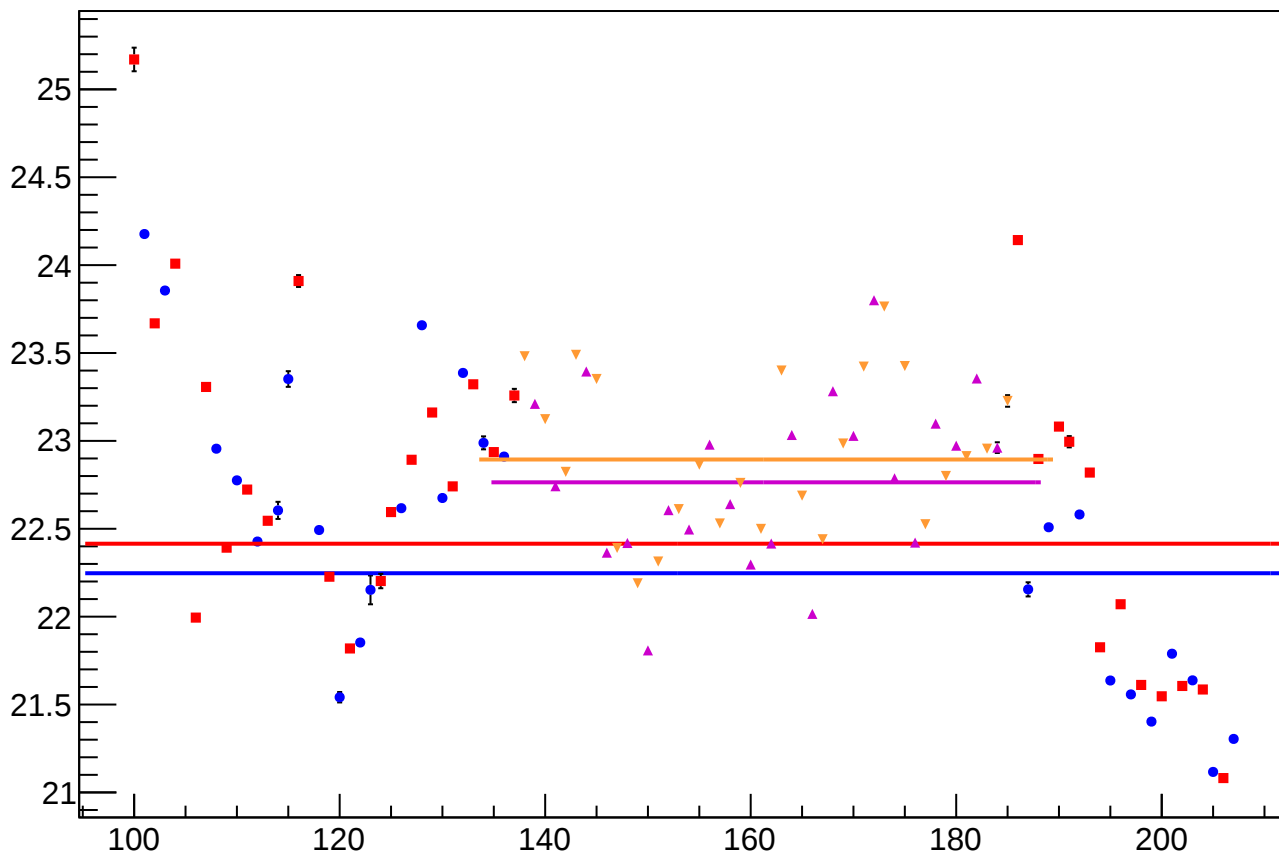
Right: 4.524 ± 4.152 $\chi^2/\text{NDF}: 58.6/57$

In: -0.138 ± 4.029 $\chi^2/\text{NDF}: 45.4/49$

Out: 11.016 ± 3.911 $\chi^2/\text{NDF}: 67.4/55$

All: 5.605 ± 2.806 $\chi^2/\text{NDF}: 116.8/105$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Left: 22.831 ± 0.003 $\chi^2/\text{NDF}: 28317.3/47$

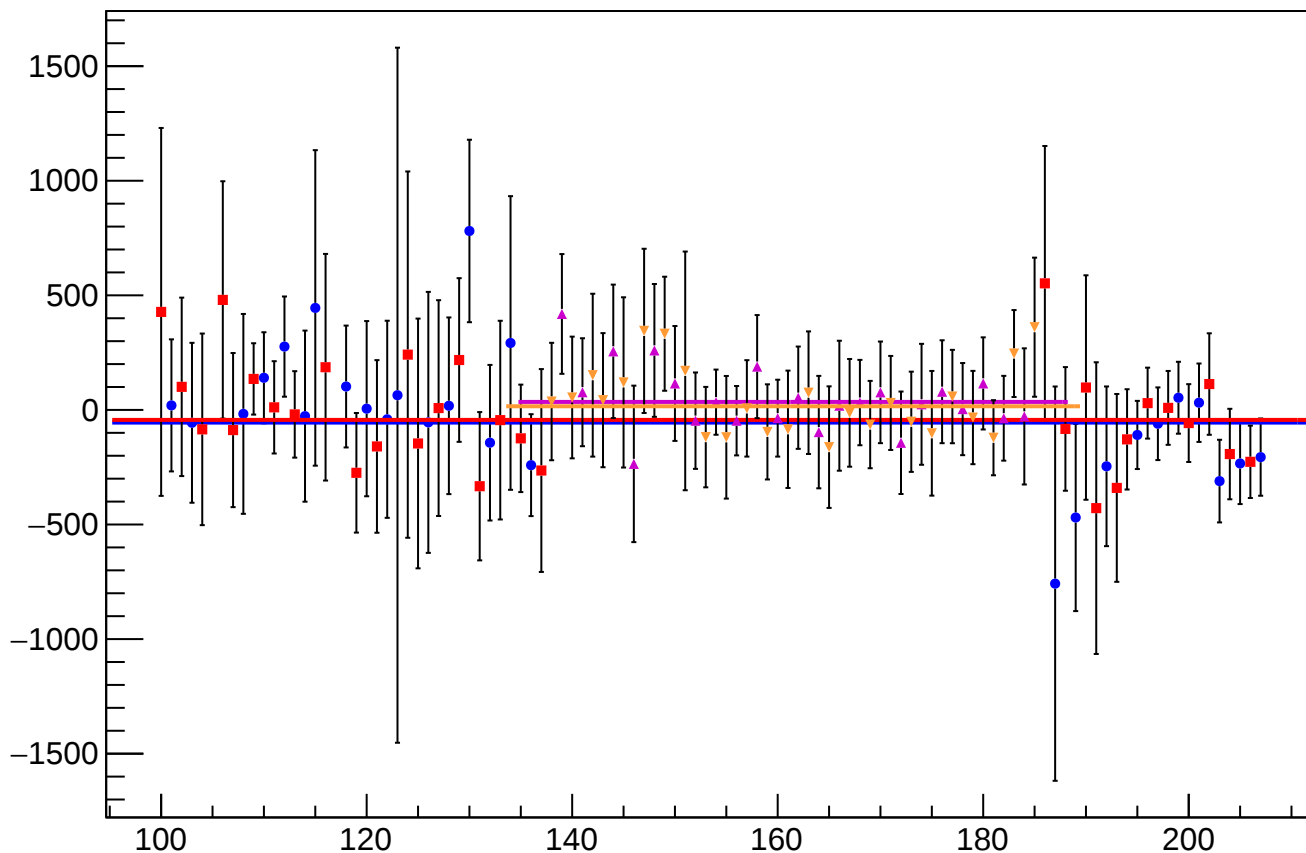
Right: 22.334 ± 0.003 $\chi^2/\text{NDF}: 80530.0/57$

In: 22.530 ± 0.003 $\chi^2/\text{NDF}: 62046.0/49$

Out: 22.673 ± 0.003 $\chi^2/\text{NDF}: 61026.6/55$

All: 22.604 ± 0.002 $\chi^2/\text{NDF}: 124367.6/105$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.278 ± 48.303 $\chi^2/\text{NDF}: 16.4/26$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -43.557 ± 46.990 $\chi^2/\text{NDF}: 10.8/30$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

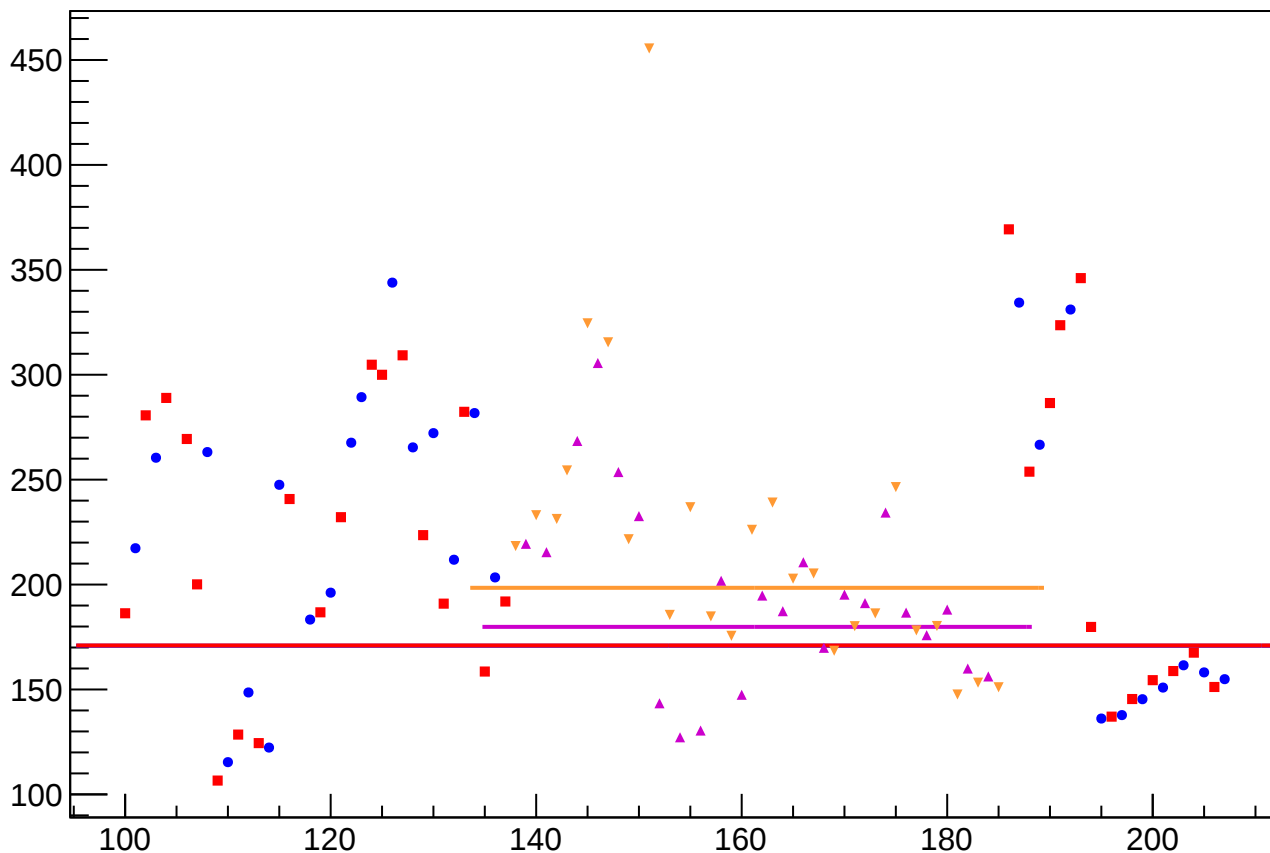
Right: -49.256 ± 33.681 $\chi^2/\text{NDF}: 27.3/57$

In: -6.961 ± 32.914 $\chi^2/\text{NDF}: 24.9/49$

Out: -14.396 ± 33.543 $\chi^2/\text{NDF}: 20.0/55$

All: -10.608 ± 23.493 $\chi^2/\text{NDF}: 44.9/105$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.853 $\pm$ 0.034 χ^2 /NDF: 2116755.4/26

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 170.974 $\pm$ 0.033 χ^2 /NDF: 2797861.8/30

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

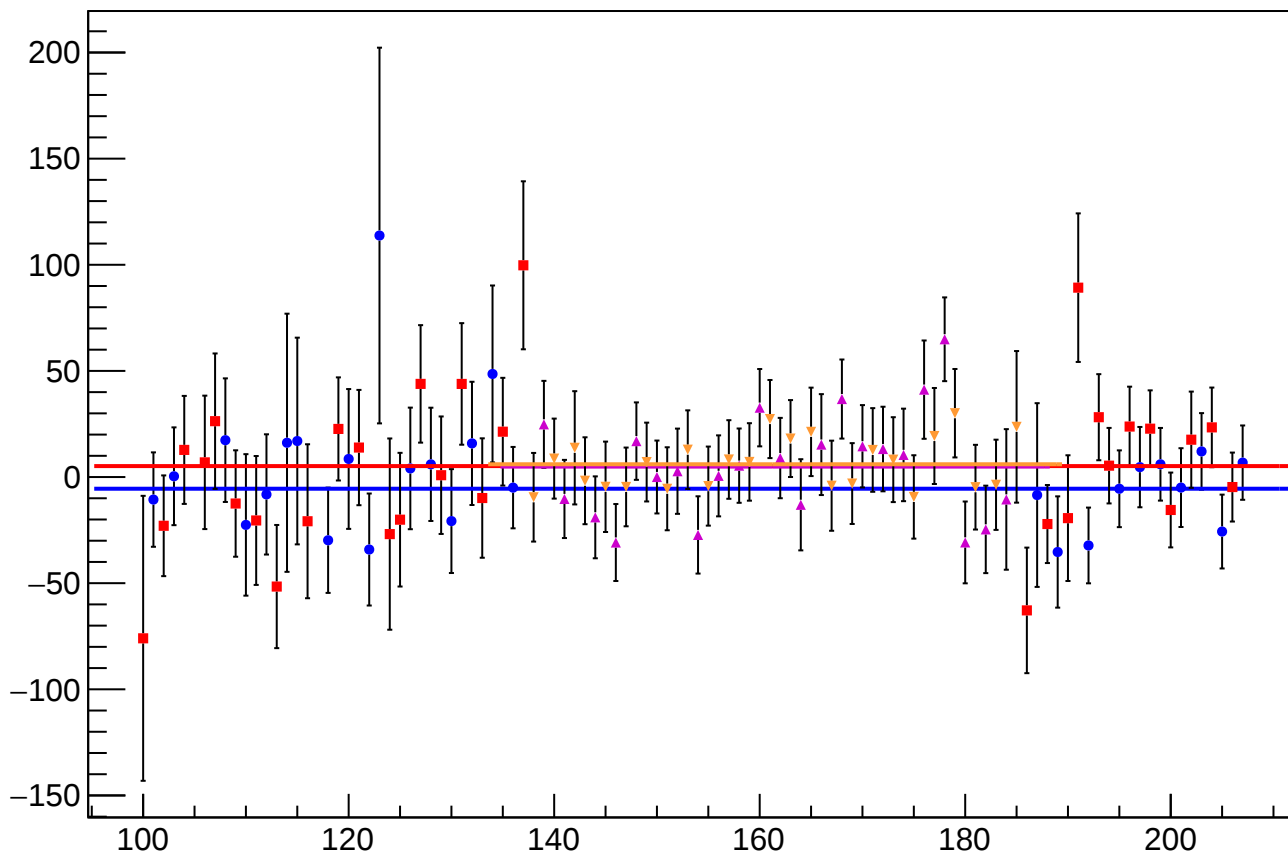
Right: 170.915 $\pm$ 0.024 χ^2 /NDF: 4914623.5/57

In: 175.667 $\pm$ 0.023 χ^2 /NDF:3742666.4/49

Out: 184.449 $\pm$ 0.024 χ^2 /NDF:4894654.8/55

All: 179.975 $\pm$ 0.017 χ^2 /NDF: 8707160.6/105

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.506 ± 4.576 $\chi^2/\text{NDF}: 15.5/26$

Left Out: 6.020 ± 4.017 $\chi^2/\text{NDF}: 8.1/24$

Right Out: 5.160 ± 4.413 $\chi^2/\text{NDF}: 41.1/30$

Left In: 4.943 ± 4.108 $\chi^2/\text{NDF}: 34.8/22$

Left: 5.494 ± 2.872 $\chi^2/\text{NDF}: 43.0/47$

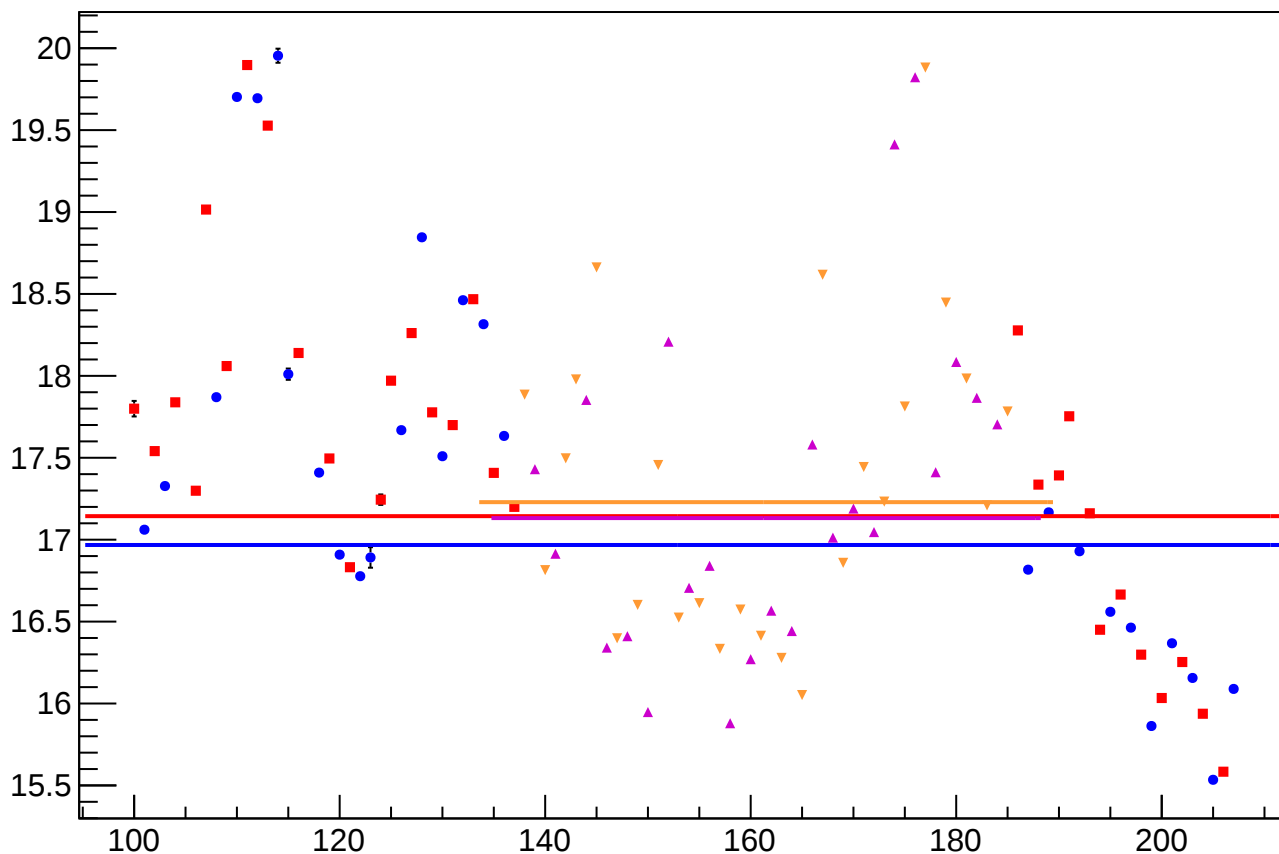
Right: 0.021 ± 3.177 $\chi^2/\text{NDF}: 59.4/57$

In: 0.281 ± 3.057 $\chi^2/\text{NDF}: 53.2/49$

Out: 5.630 ± 2.971 $\chi^2/\text{NDF}: 49.3/55$

All: 3.032 ± 2.130 $\chi^2/\text{NDF}: 104.0/105$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.968 $\pm$ 0.003 χ^2 /NDF: 98506.5/26

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.144 $\pm$ 0.003 χ^2 /NDF: 105453.4/30

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

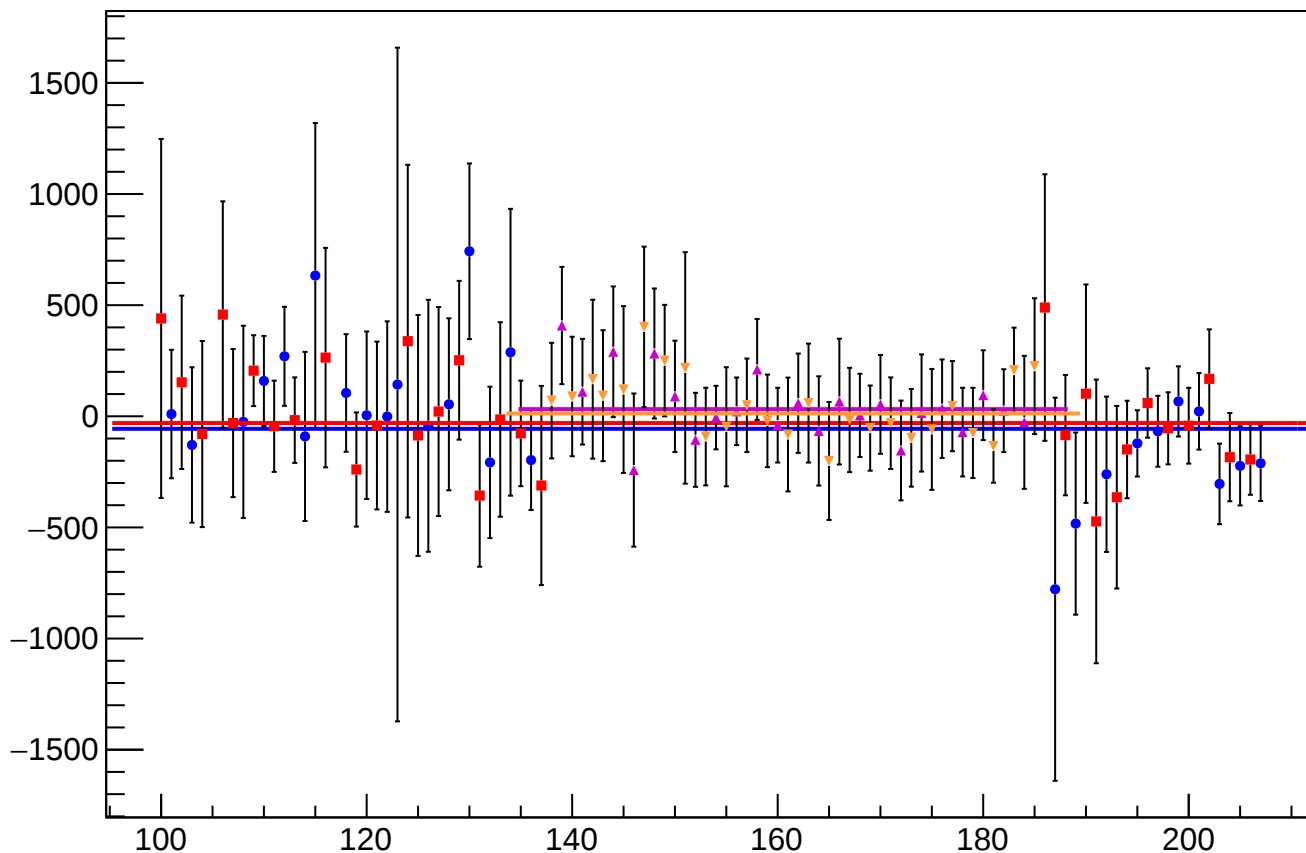
Right: 17.059 $\pm$ 0.002 χ^2 /NDF: 205492.4/57

In: 17.059 $\pm$ 0.002 χ^2 /NDF:203929.4/49

Out: 17.190 $\pm$ 0.002 χ^2 /NDF:204488.4/55

All: 17.126 $\pm$ 0.002 χ^2 /NDF: 410330.1/105

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.343 ± 48.589 χ^2/NDF : 16.6/26

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -30.431 ± 47.322 χ^2/NDF : 12.2/30

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

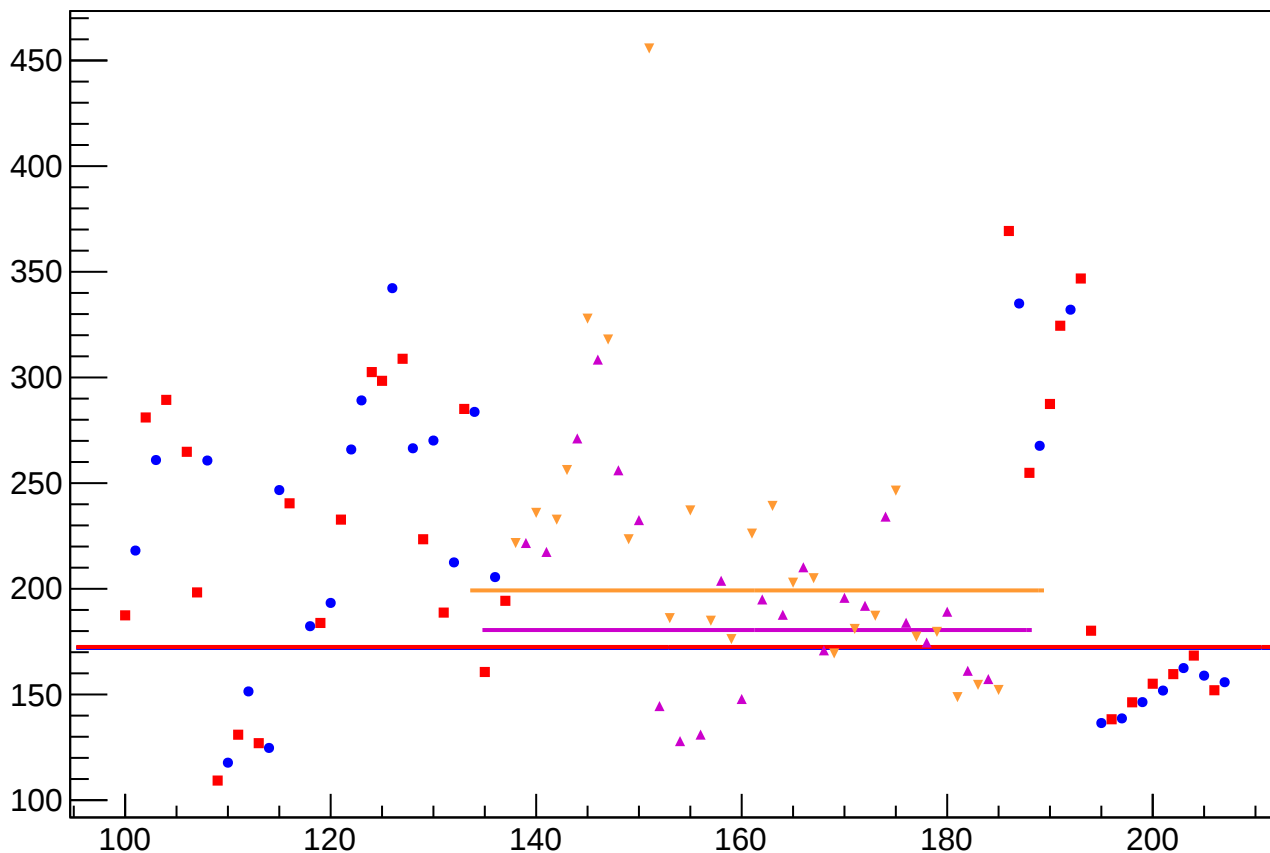
Right: -43.045 ± 33.901 χ^2/NDF : 28.9/57

In: -8.831 ± 33.067 χ^2/NDF : 25.3/49

Out: -9.322 ± 33.729 χ^2/NDF : 19.4/55

All: -9.072 ± 23.612 χ^2/NDF : 44.7/105

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.014 $\pm$ 0.034 χ^2 /NDF: 2068363.0/26

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 172.486 $\pm$ 0.033 χ^2 /NDF: 2704520.0/30

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

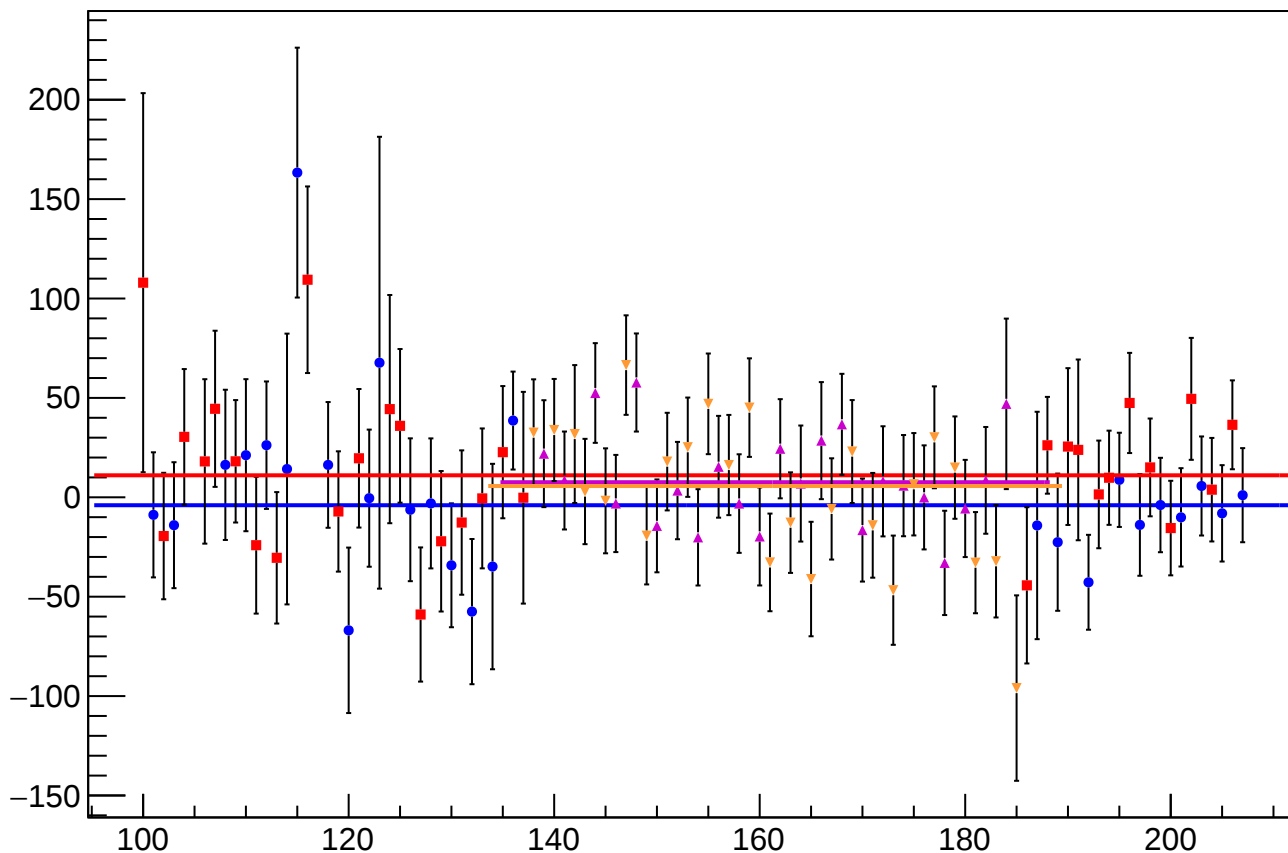
Right: 172.256 $\pm$ 0.024 χ^2 /NDF: 4772980.1/57

In: 176.566 $\pm$ 0.023 χ^2 /NDF:3694852.1/49

Out: 185.649 $\pm$ 0.024 χ^2 /NDF:4783157.4/55

All: 181.018 $\pm$ 0.017 χ^2 /NDF: 8551970.8/105

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.990 ± 6.025 χ^2/NDF : 22.1/26

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 11.067 ± 5.775 χ^2/NDF : 26.2/30

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

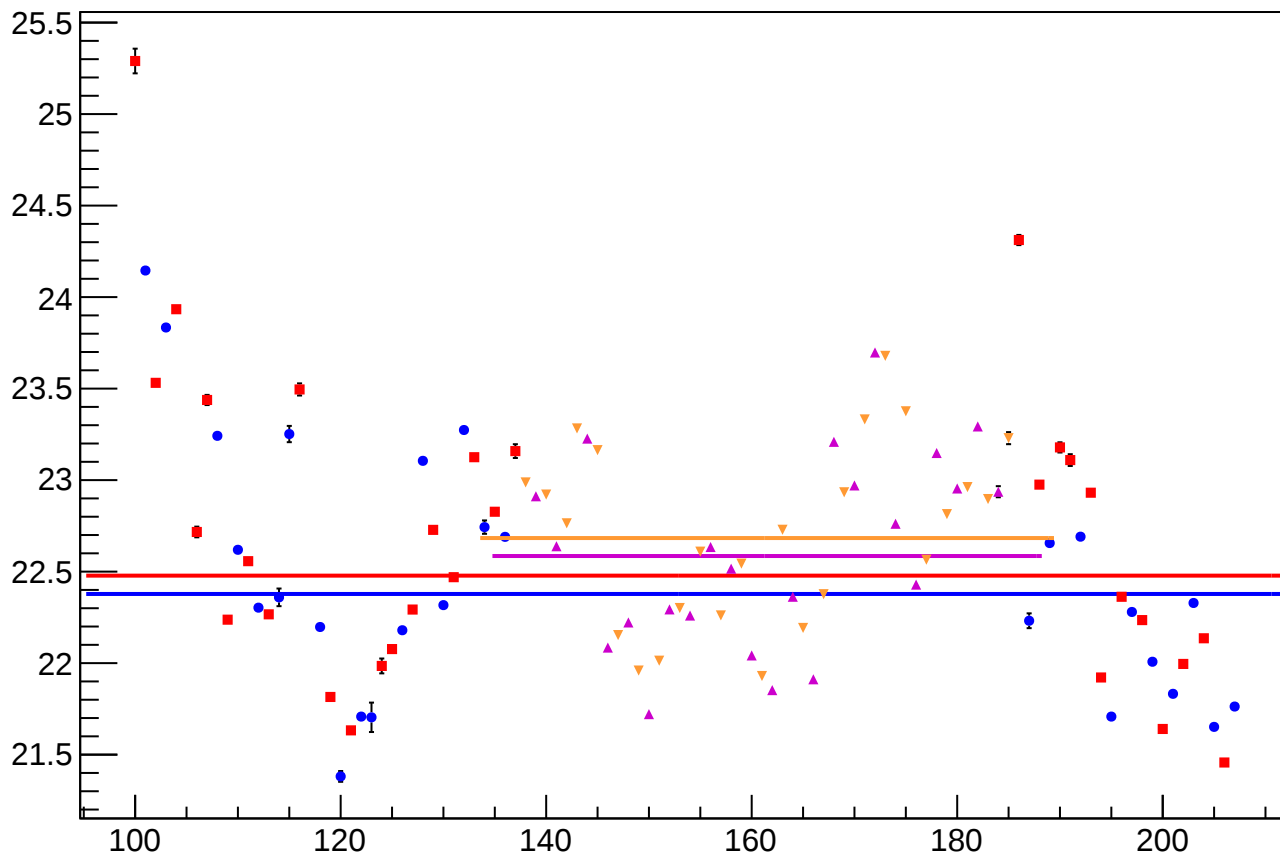
Right: 3.857 ± 4.169 χ^2/NDF : 51.5/57

In: 2.432 ± 4.022 χ^2/NDF : 42.5/49

Out: 8.128 ± 3.896 χ^2/NDF : 63.0/55

All: 5.370 ± 2.798 χ^2/NDF : 106.6/105

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.378 $\pm$ 0.004 χ^2 /NDF: 23505.6/26

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.478 $\pm$ 0.004 χ^2 /NDF: 29473.4/30

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

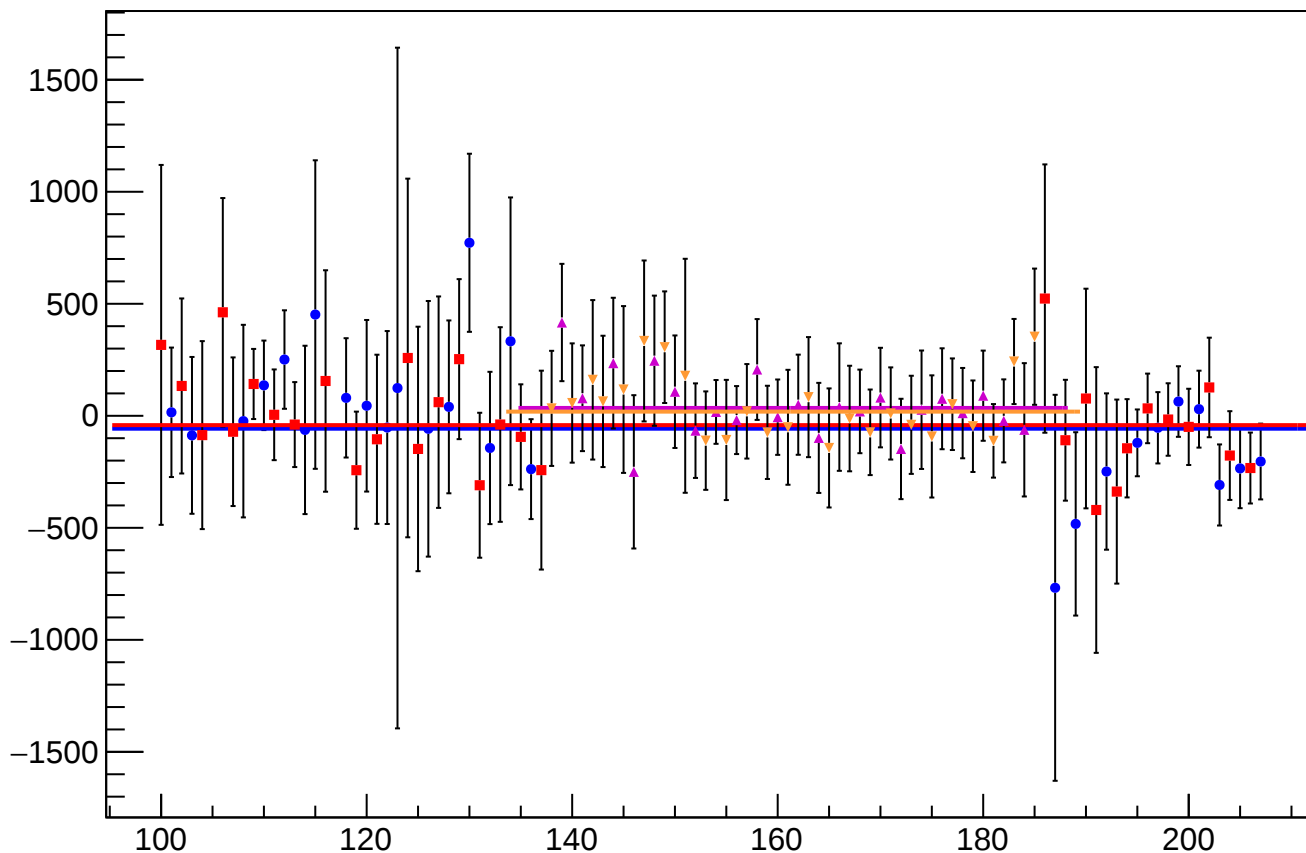
Right: 22.430 $\pm$ 0.003 χ^2 /NDF: 53267.1/57

In: 22.493 $\pm$ 0.003 χ^2 /NDF:42906.3/49

Out: 22.590 $\pm$ 0.003 χ^2 /NDF:47169.7/55

All: 22.543 $\pm$ 0.002 χ^2 /NDF: 90677.7/105

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.541 $\pm$ 48.451 χ^2 /NDF: 16.2/26

Left Out: 18.633 $\pm$ 48.006 χ^2 /NDF: 7.6/24

Right Out: -41.675 $\pm$ 47.109 χ^2 /NDF: 10.3/30

Left In: 35.046 $\pm$ 45.063 χ^2 /NDF: 6.3/22

Left: 27.358 $\pm$ 32.855 χ^2 /NDF: 13.9/47

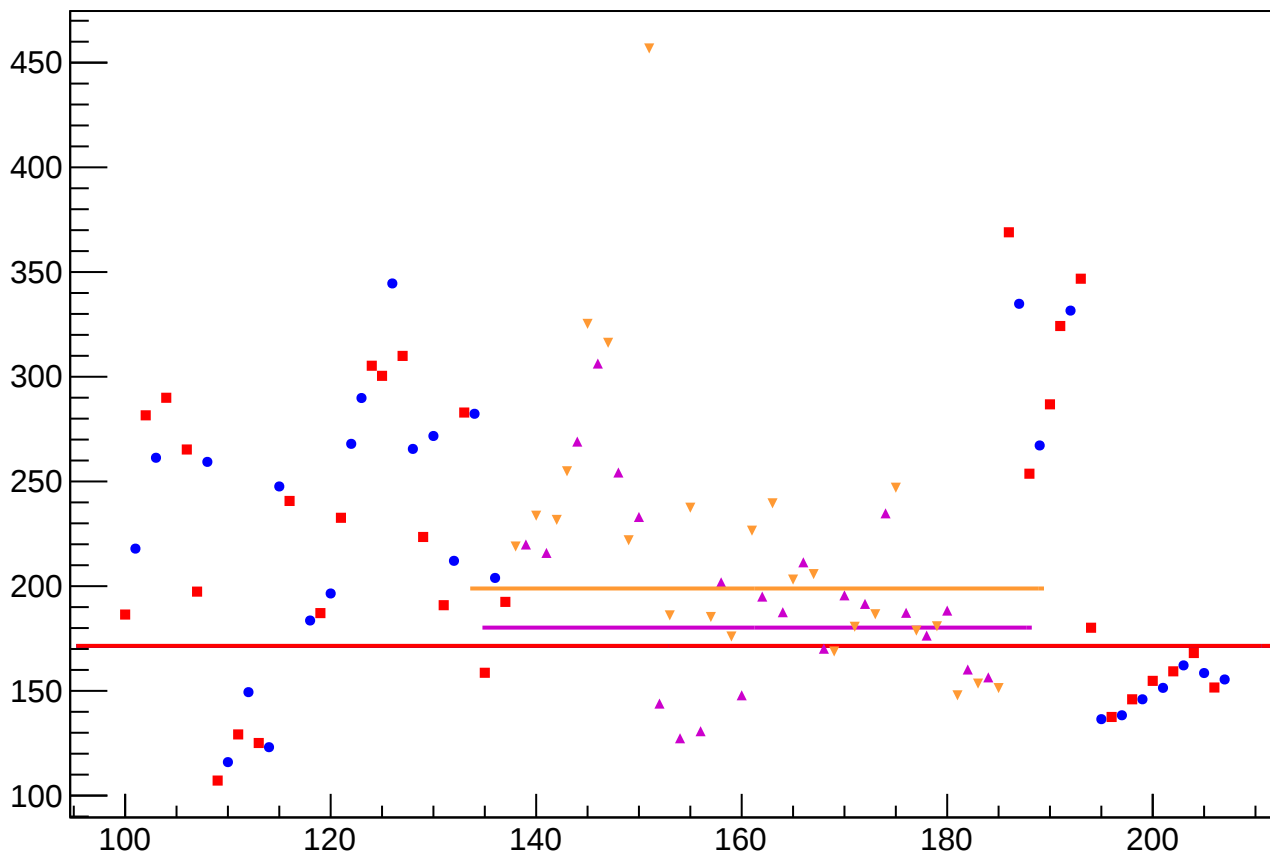
Right: -49.385 $\pm$ 33.775 χ^2 /NDF: 26.5/57

In: -7.898 $\pm$ 32.997 χ^2 /NDF: 24.4/49

Out: -12.090 $\pm$ 33.624 χ^2 /NDF: 18.7/55

All: -9.954 $\pm$ 23.551 χ^2 /NDF: 43.1/105

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.437 $\pm$ 0.034 χ^2 /NDF: 2098035.0/26

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 171.485 $\pm$ 0.033 χ^2 /NDF: 2773025.5/30

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

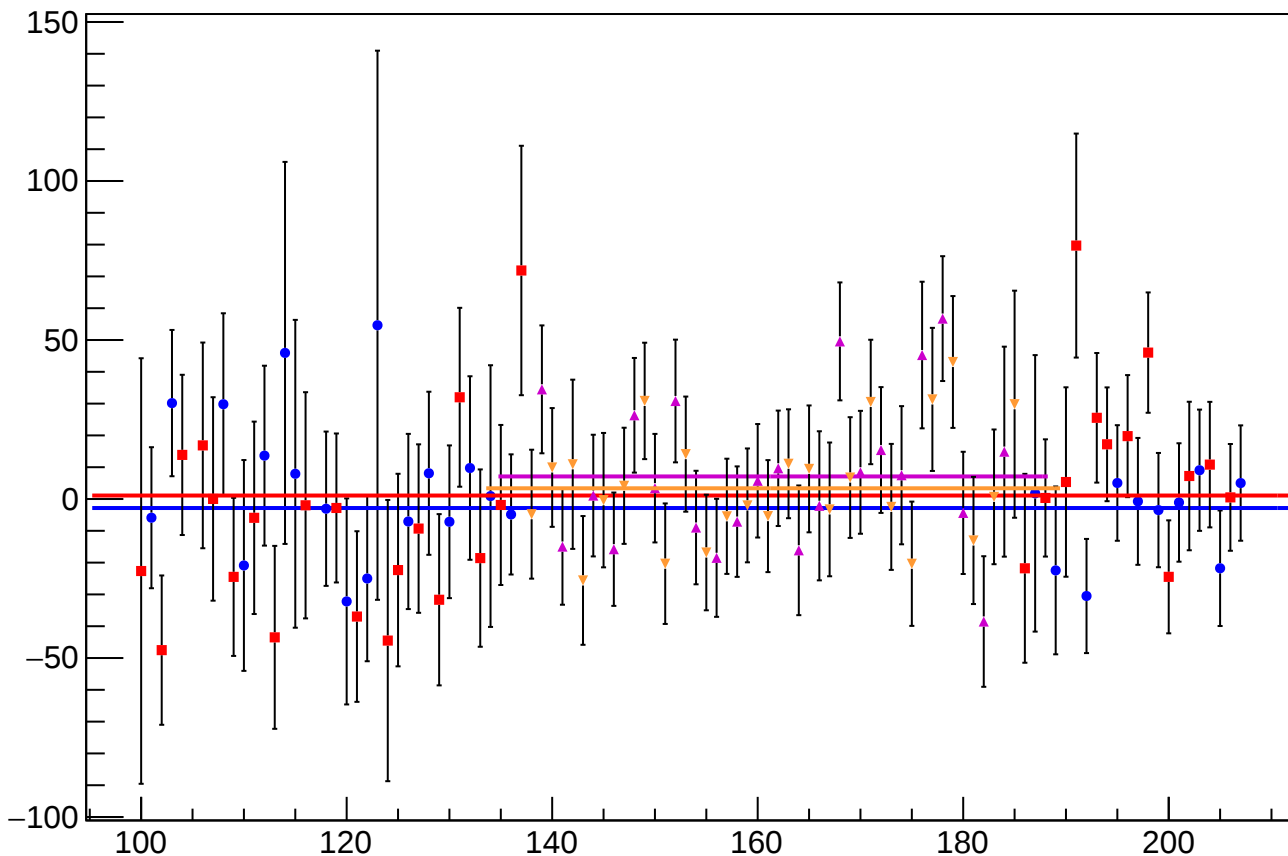
Right: 171.462 $\pm$ 0.024 χ^2 /NDF: 4871061.5/57

In: 176.140 $\pm$ 0.023 χ^2 /NDF:3722173.7/49

Out: 184.929 $\pm$ 0.024 χ^2 /NDF:4867539.3/55

All: 180.452 $\pm$ 0.017 χ^2 /NDF: 8659335.7/105

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.833 ± 4.620 $\chi^2/\text{NDF}: 12.0/26$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.096 ± 4.436 $\chi^2/\text{NDF}: 35.6/30$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

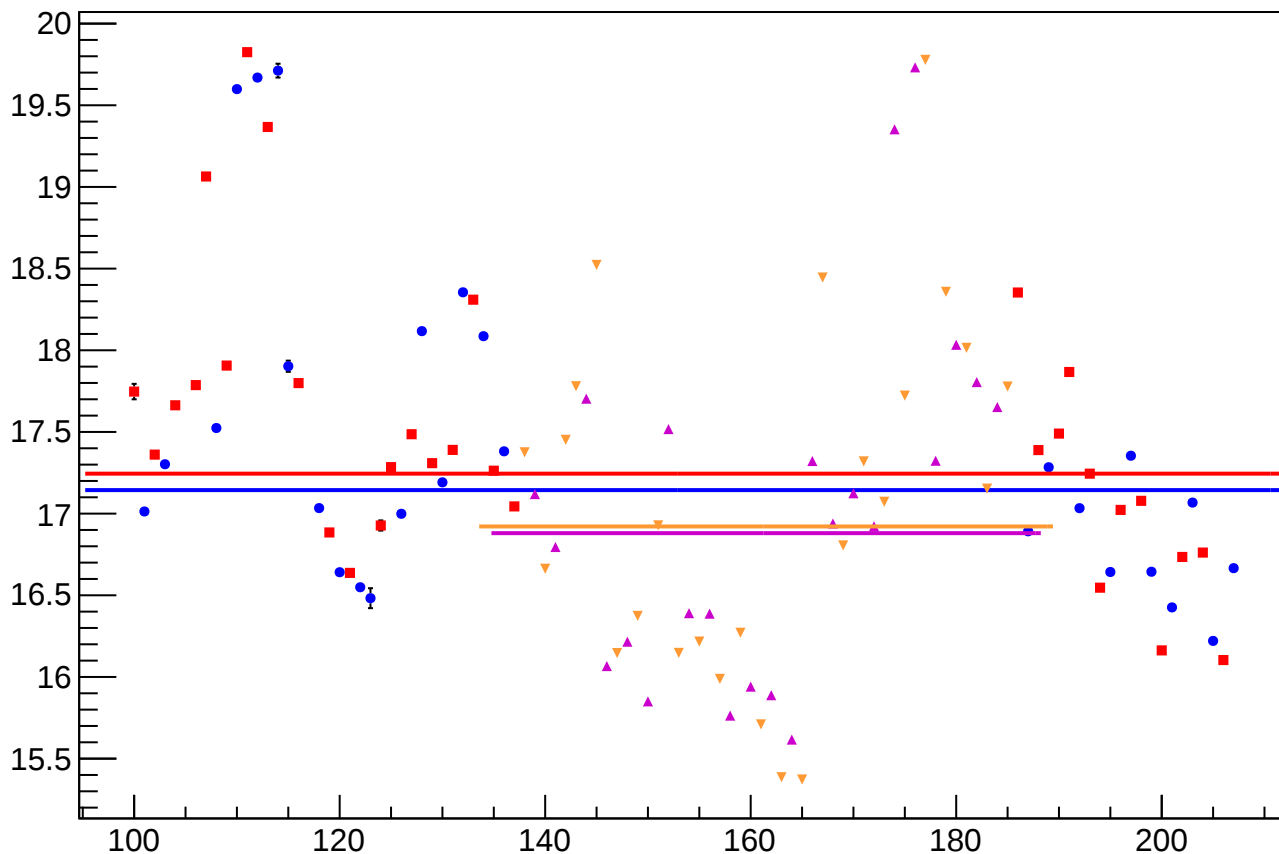
Right: -0.788 ± 3.200 $\chi^2/\text{NDF}: 47.9/57$

In: 2.786 ± 3.044 $\chi^2/\text{NDF}: 47.1/49$

Out: 2.366 ± 2.949 $\chi^2/\text{NDF}: 54.5/55$

All: 2.570 ± 2.118 $\chi^2/\text{NDF}: 101.6/105$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.144 $\pm$ 0.003 χ^2 /NDF: 54148.9/26

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.245 $\pm$ 0.003 χ^2 /NDF: 65848.4/30

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

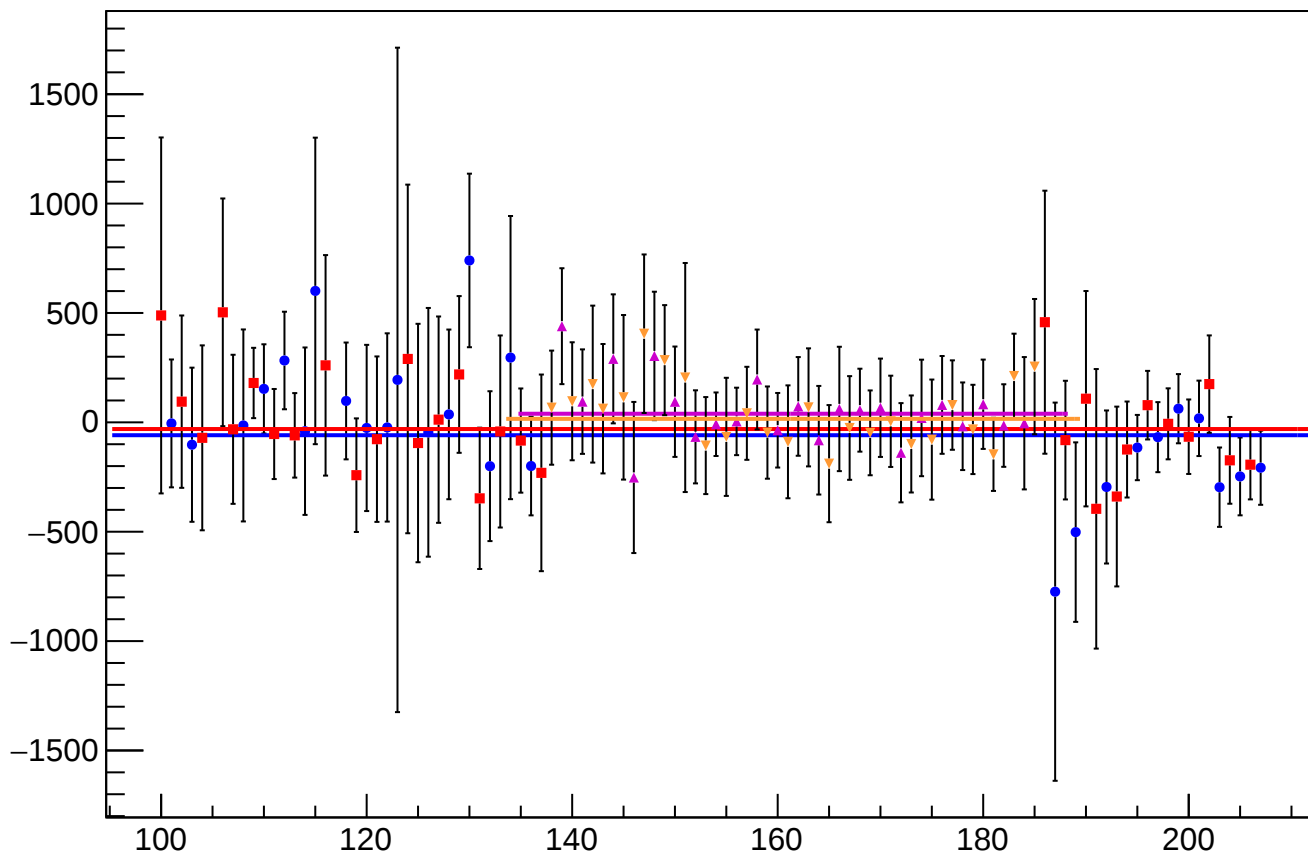
Right: 17.196 $\pm$ 0.002 χ^2 /NDF: 120492.1/57

In: 16.995 $\pm$ 0.002 χ^2 /NDF:179564.9/49

Out: 17.064 $\pm$ 0.002 χ^2 /NDF:210764.7/55

All: 17.031 $\pm$ 0.001 χ^2 /NDF: 390866.3/105

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.834 ± 48.724 χ^2/NDF : 16.6/26

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -30.564 ± 47.488 χ^2/NDF : 11.0/30

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

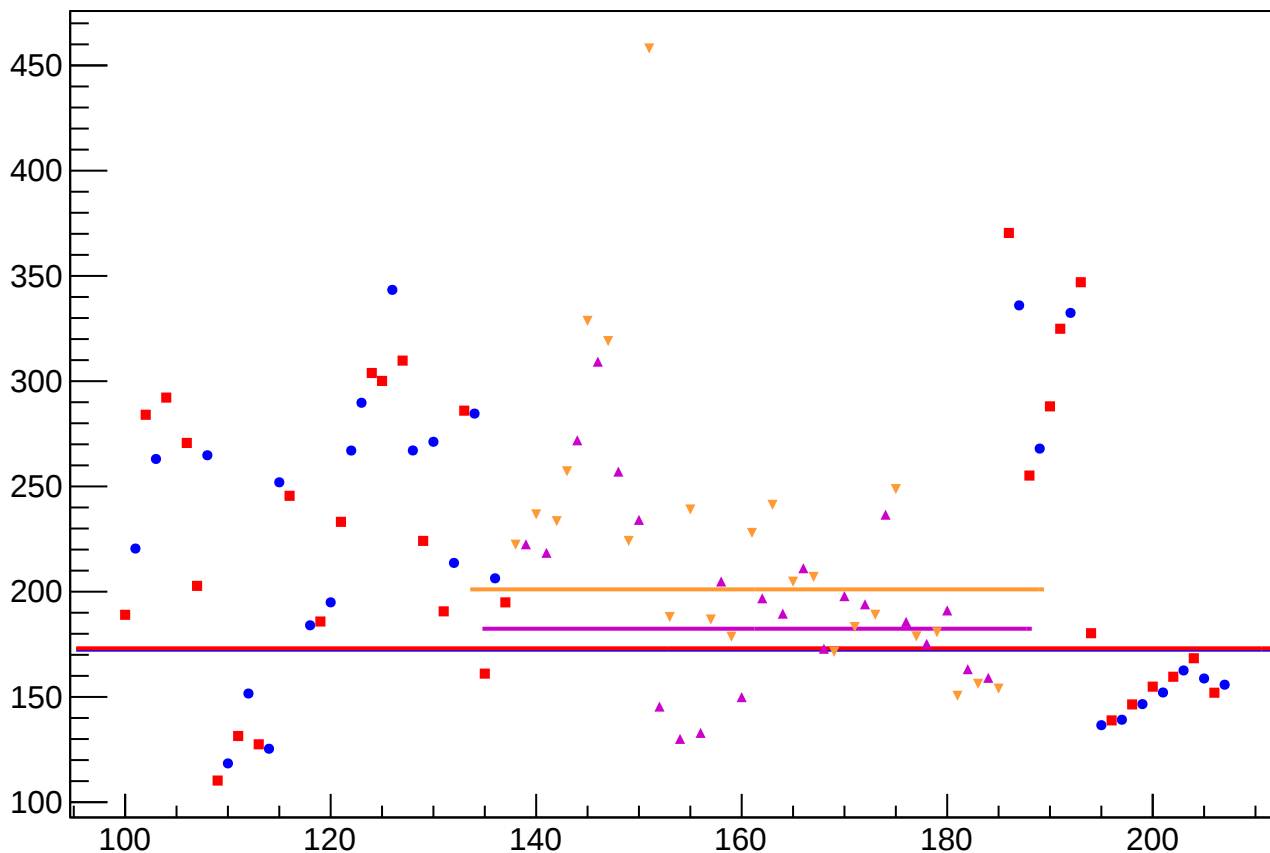
Right: -44.336 ± 34.008 χ^2/NDF : 27.8/57

In: -6.448 ± 33.282 χ^2/NDF : 25.6/49

Out: -7.790 ± 33.932 χ^2/NDF : 18.9/55

All: -7.106 ± 23.761 χ^2/NDF : 44.5/105

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.448 $\pm$ 0.034 χ^2 /NDF: 2084933.5/26

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 173.089 $\pm$ 0.034 χ^2 /NDF: 2715275.7/30

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

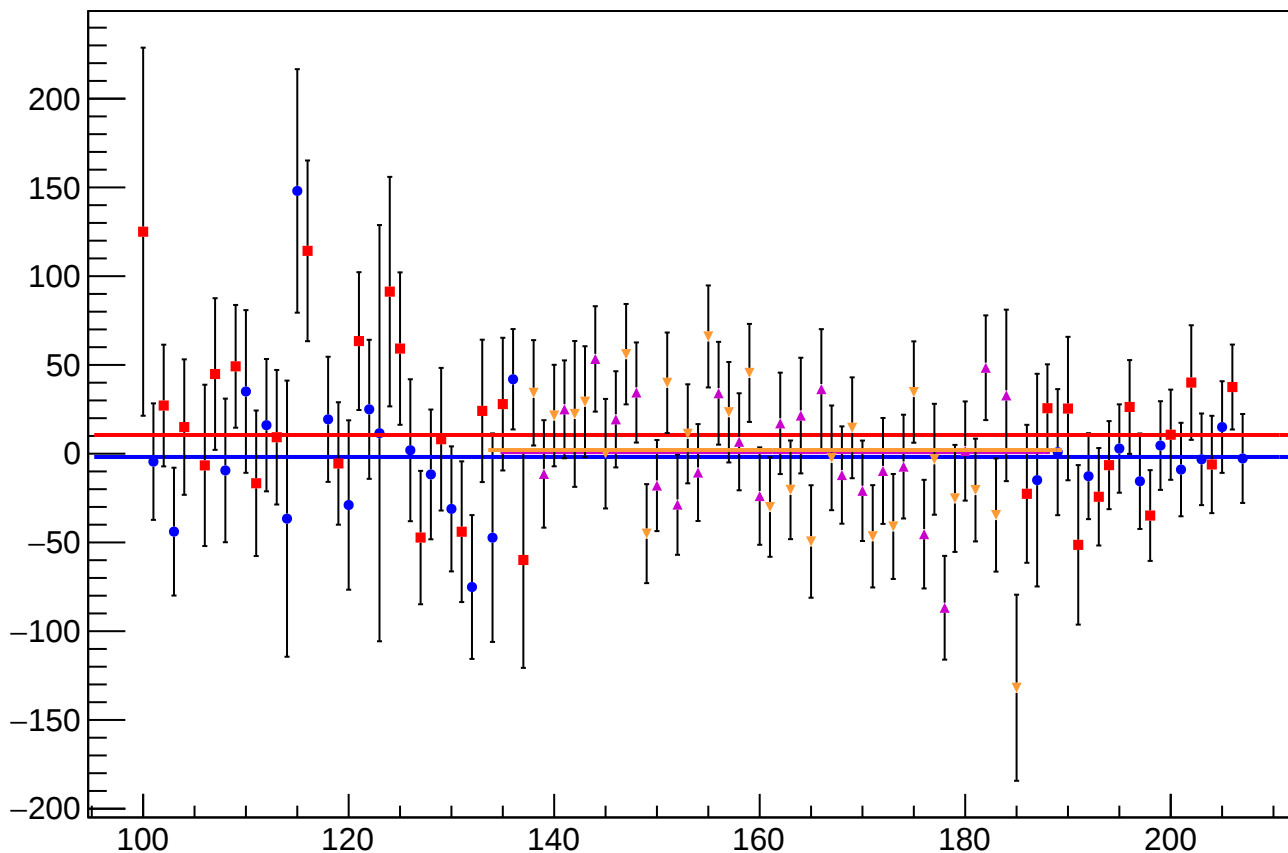
Right: 172.777 $\pm$ 0.024 χ^2 /NDF: 4800386.6/57

In: 177.754 $\pm$ 0.024 χ^2 /NDF:3678311.9/49

Out: 186.794 $\pm$ 0.024 χ^2 /NDF:4786702.3/55

All: 182.187 $\pm$ 0.017 χ^2 /NDF: 8537354.8/105

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.848 ± 6.510 χ^2/NDF : 16.6/26

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.535 ± 6.209 χ^2/NDF : 30.1/30

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

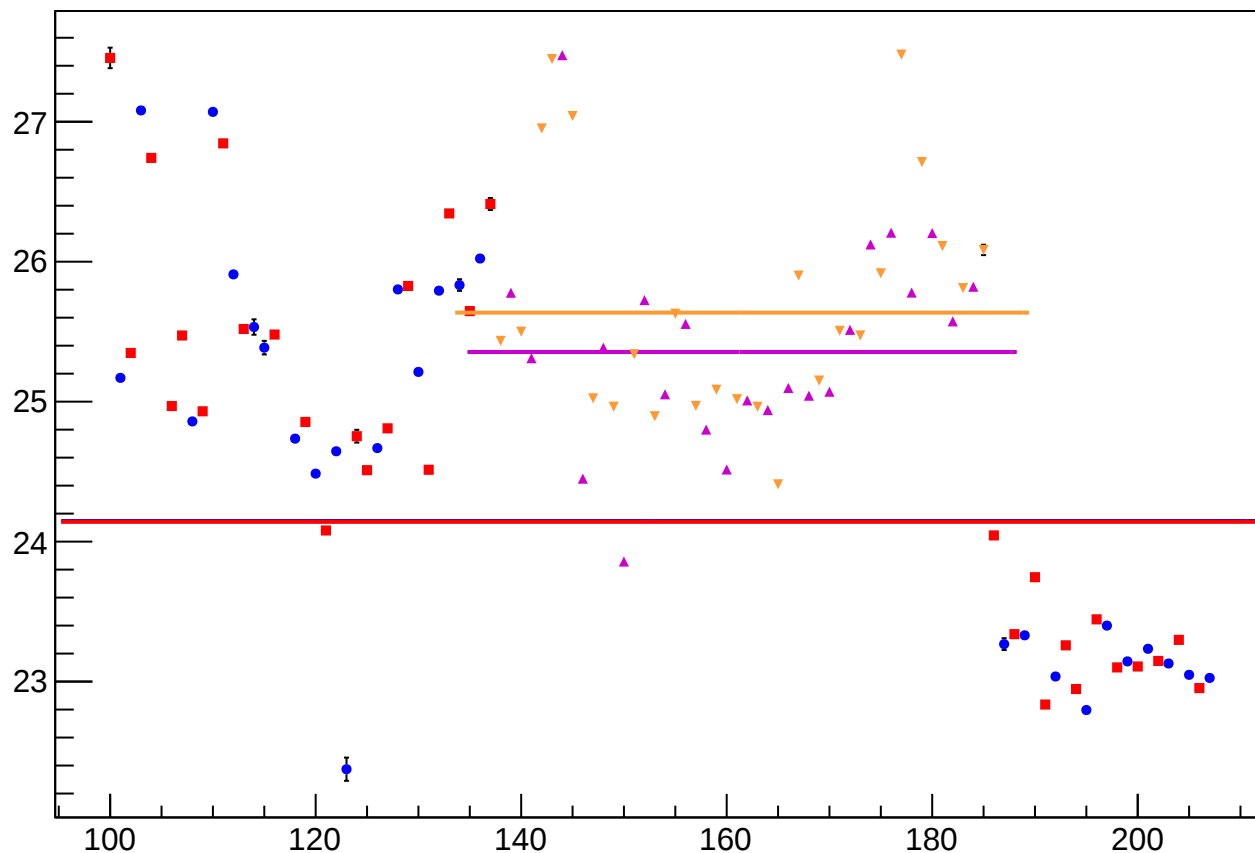
Right: 4.636 ± 4.493 χ^2/NDF : 48.6/57

In: -0.378 ± 4.439 χ^2/NDF : 43.8/49

Out: 6.128 ± 4.303 χ^2/NDF : 70.6/55

All: 2.976 ± 3.090 χ^2/NDF : 115.4/105

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.147 $\pm$ 0.005 χ^2 /NDF: 80692.4/26

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.141 $\pm$ 0.004 χ^2 /NDF: 75216.4/30

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF:29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

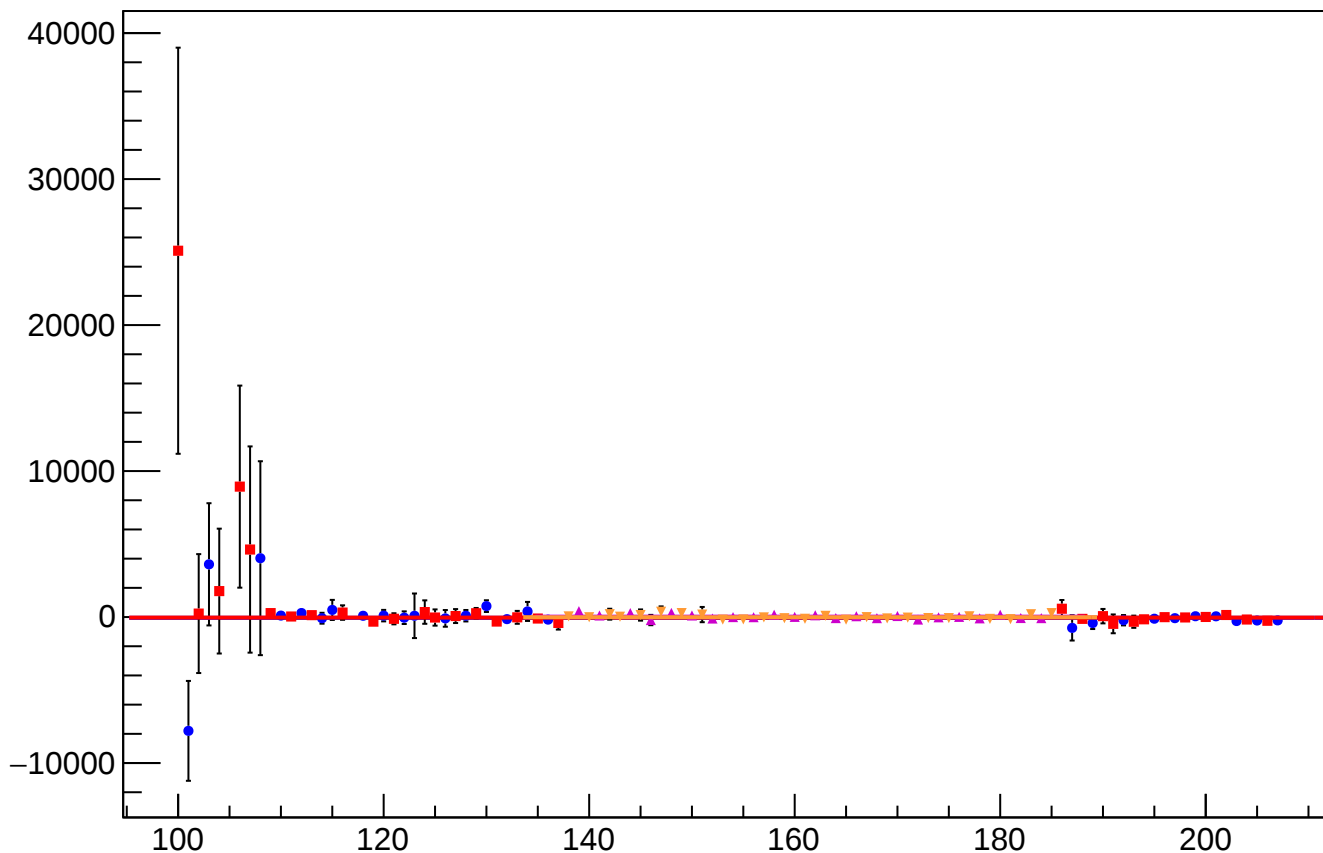
Right: 24.144 $\pm$ 0.003 χ^2 /NDF: 155909.6/57

In: 24.793 $\pm$ 0.003 χ^2 /NDF:147304.9/49

Out: 24.918 $\pm$ 0.003 χ^2 /NDF:170584.2/55

All: 24.857 $\pm$ 0.002 χ^2 /NDF: 318706.7/105

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.146+/-51.203 χ^2/NDF : 21.1/26

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -37.990+/-50.793 χ^2/NDF : 17.7/30

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

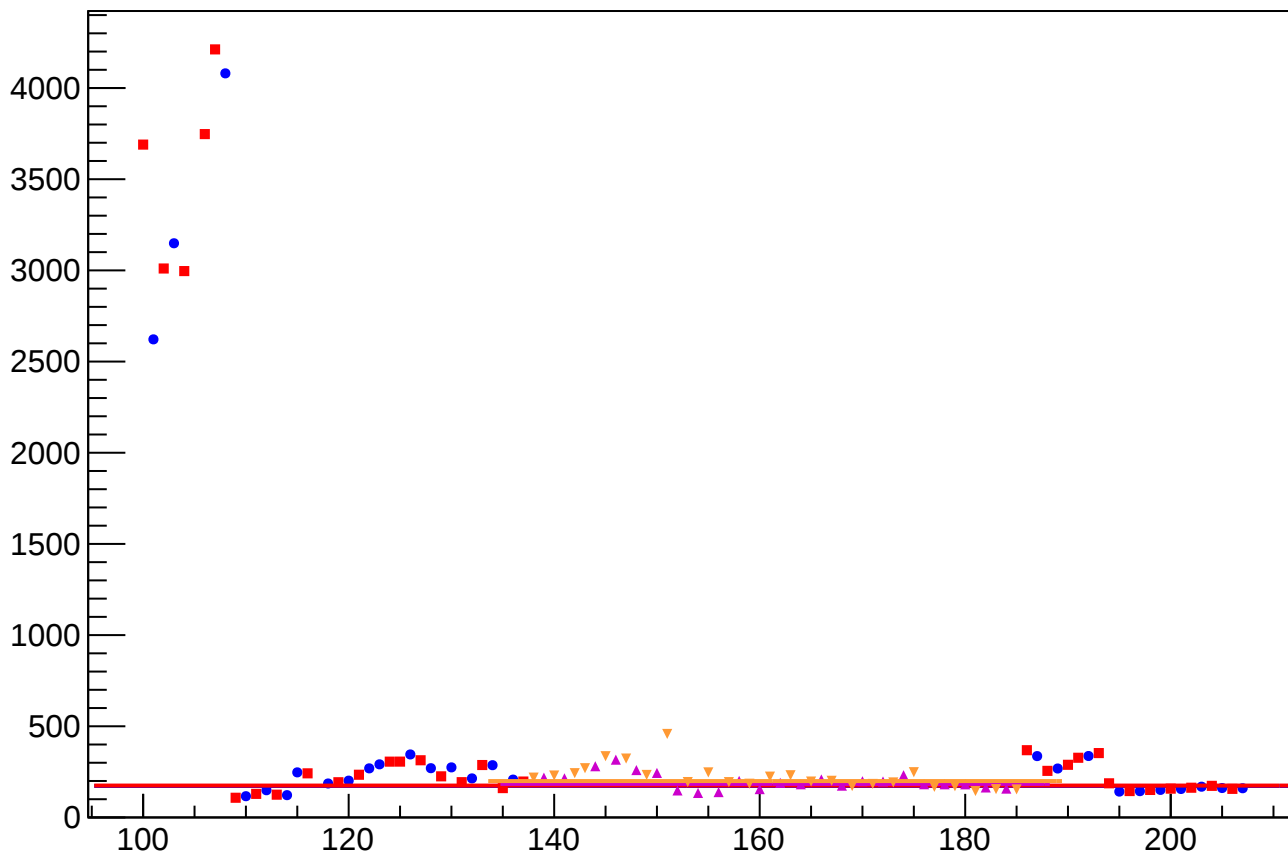
Right: -45.507+/-36.060 χ^2/NDF : 38.8/57

In: -8.779+/-34.168 χ^2/NDF : 29.9/49

Out: -24.750+/-34.969 χ^2/NDF : 25.7/55

All: -16.580+/-24.439 χ^2/NDF : 55.7/105

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.644 $\pm$ 0.036 χ^2 /NDF: 4486695.3/26

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 174.794 $\pm$ 0.036 χ^2 /NDF: 5334942.9/30

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

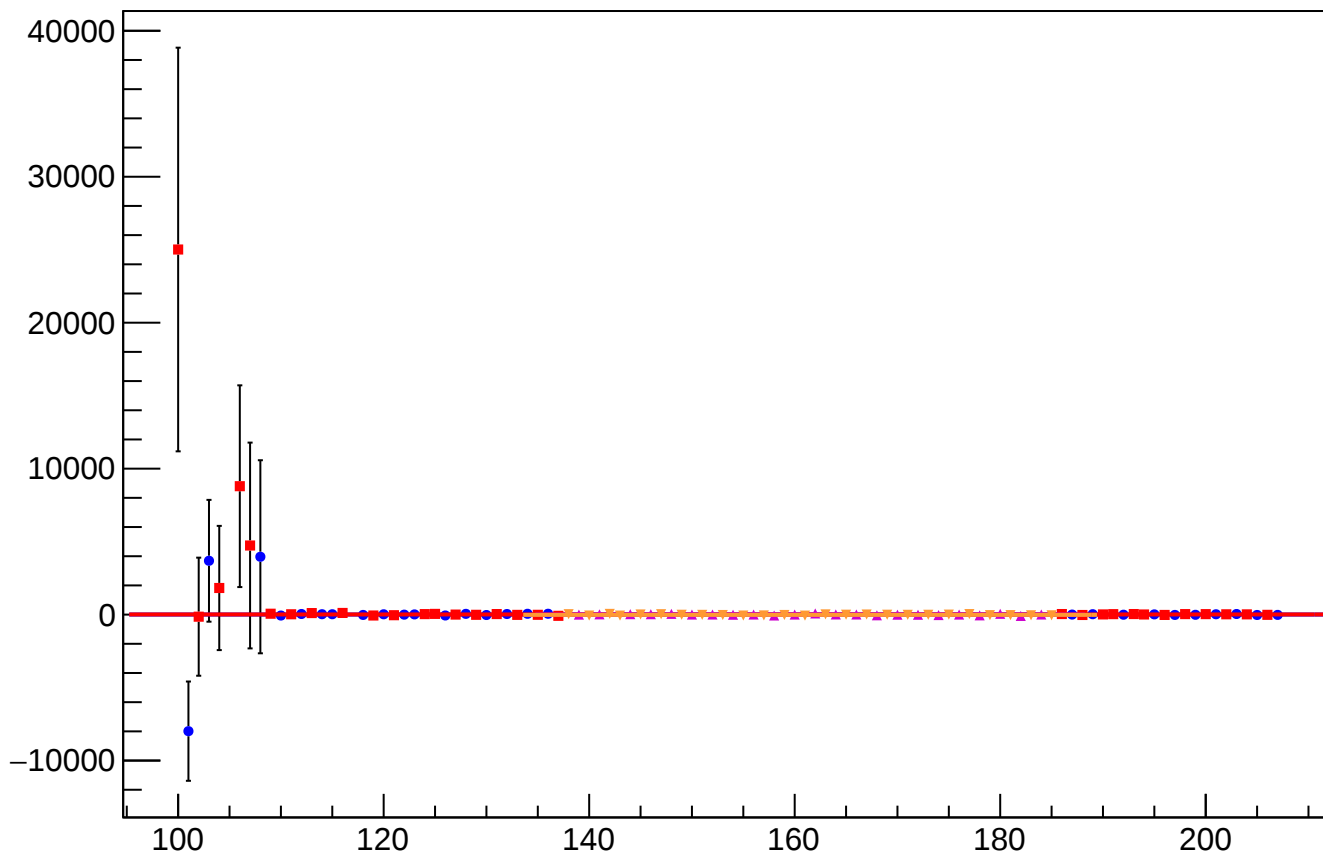
Right: 173.728 $\pm$ 0.025 χ^2 /NDF: 9823416.9/57

In: 178.961 $\pm$ 0.024 χ^2 /NDF:5965026.6/49

Out: 187.808 $\pm$ 0.025 χ^2 /NDF:7465096.2/55

All: 183.282 $\pm$ 0.017 χ^2 /NDF: 13495624.9/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.581+/-7.852 χ^2/NDF : 24.3/26

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 11.162+/-7.625 χ^2/NDF : 30.0/30

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

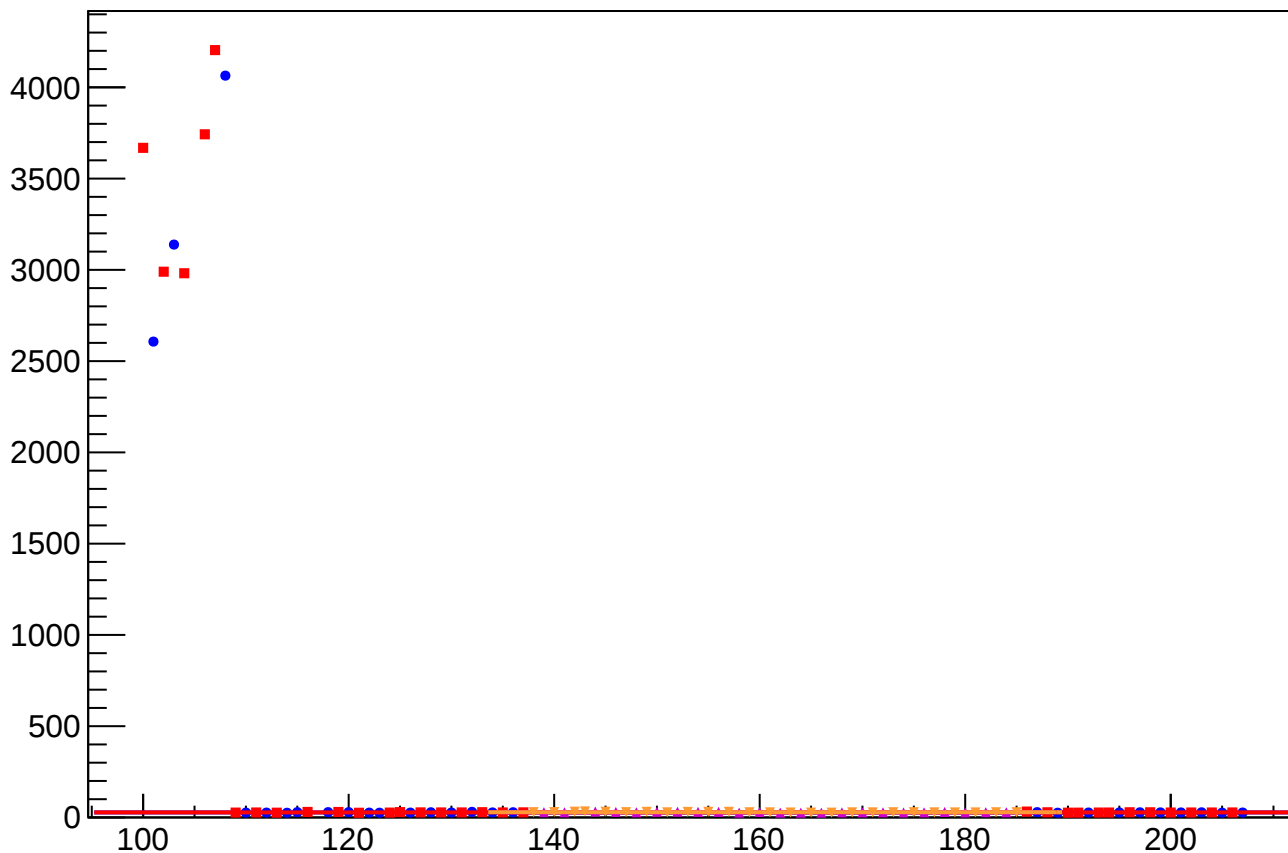
Right: 7.968+/-5.470 χ^2/NDF : 54.7/57

In: 2.576+/-5.175 χ^2/NDF :56.9/49

Out: -5.070+/-5.030 χ^2/NDF :60.4/55

All: -1.355+/-3.607 χ^2/NDF : 118.4/105

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.511 $\pm$ 0.006 χ^2 /NDF: 3040991.5/26

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.594 $\pm$ 0.005 χ^2 /NDF: 3503326.8/30

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF: 124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

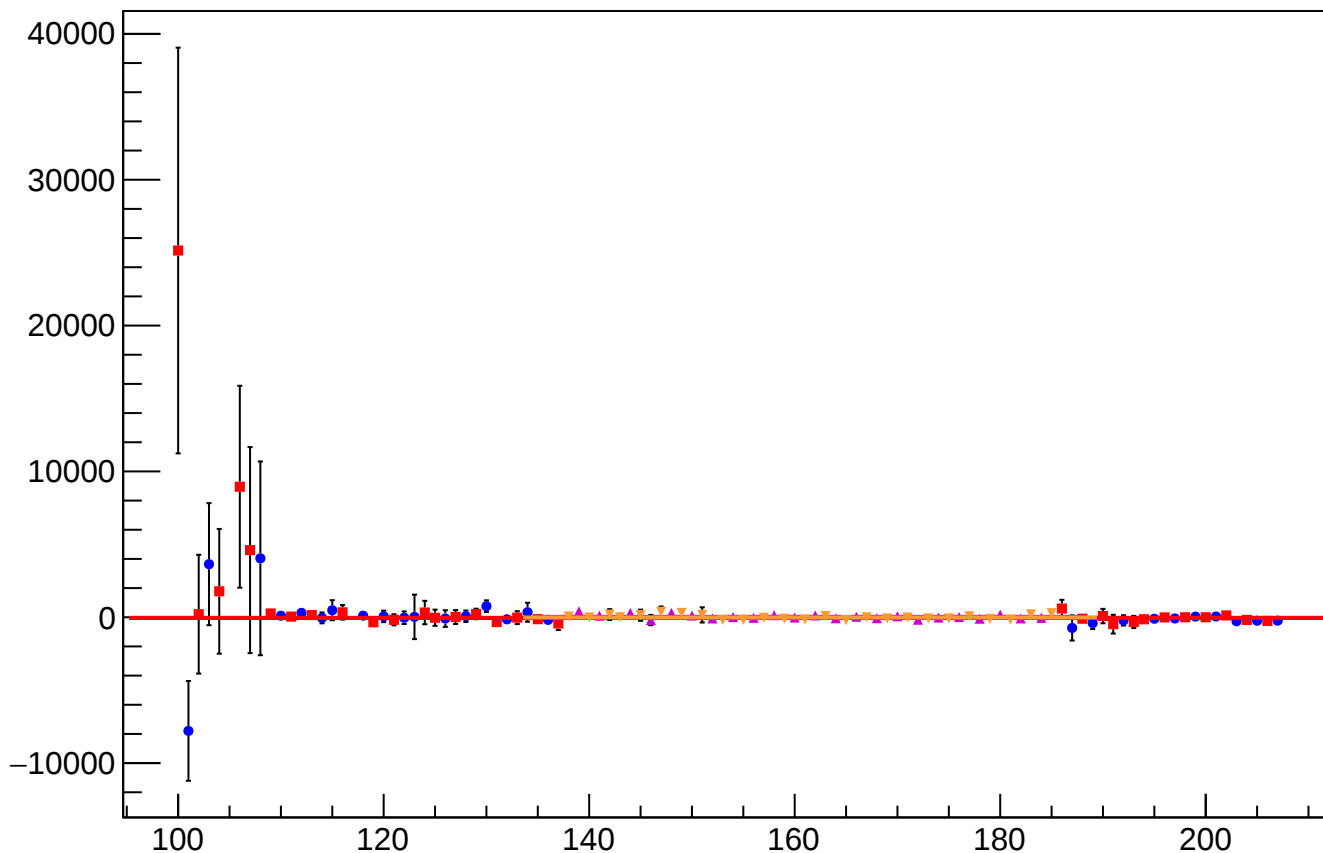
Right: 27.553 $\pm$ 0.004 χ^2 /NDF: 6544434.2/57

In: 28.168 $\pm$ 0.004 χ^2 /NDF: 3190524.9/49

Out: 28.213 $\pm$ 0.004 χ^2 /NDF: 3637185.0/55

All: 28.191 $\pm$ 0.003 χ^2 /NDF: 6827788.9/105

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.369 ± 51.042 $\chi^2/\text{NDF}: 21.4/26$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -39.404 ± 50.650 $\chi^2/\text{NDF}: 18.3/30$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

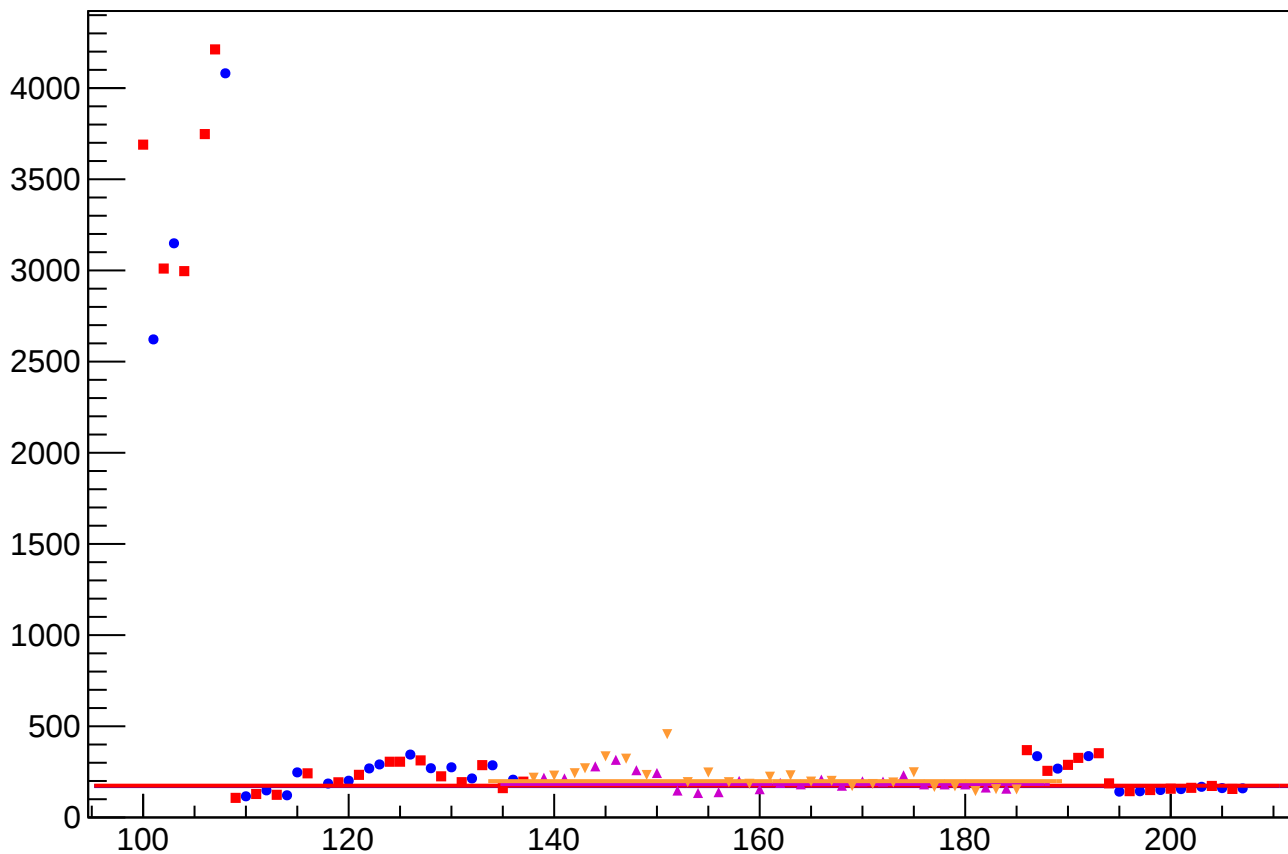
Right: -45.340 ± 35.953 $\chi^2/\text{NDF}: 39.7/57$

In: -7.936 ± 34.082 $\chi^2/\text{NDF}: 30.5/49$

Out: -26.828 ± 34.882 $\chi^2/\text{NDF}: 27.1/55$

All: -17.163 ± 24.378 $\chi^2/\text{NDF}: 57.7/105$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.054 $\pm$ 0.036 χ^2 /NDF: 4499885.5/26

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 174.243 $\pm$ 0.036 χ^2 /NDF: 5352125.5/30

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

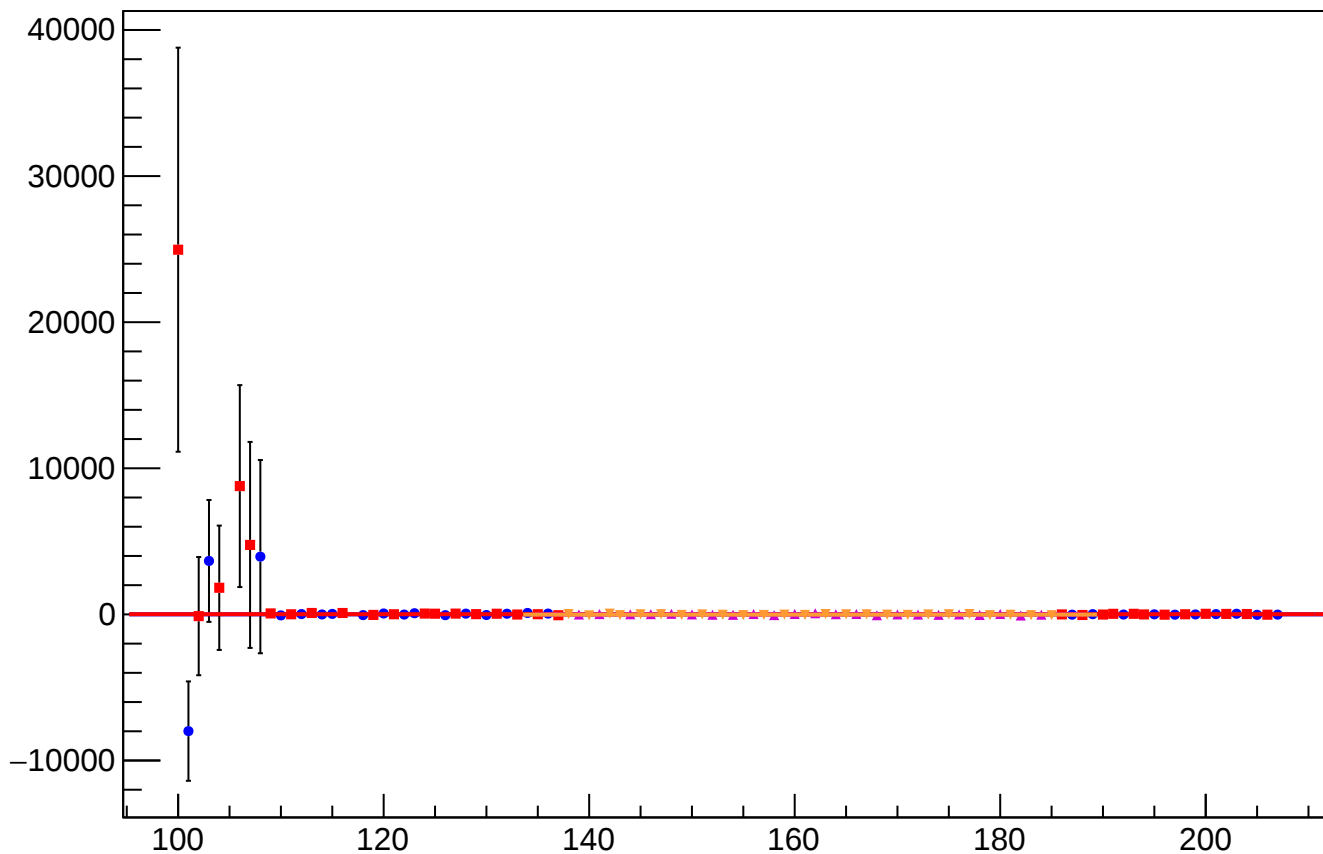
Right: 173.157 $\pm$ 0.025 χ^2 /NDF: 9853864.4/57

In: 178.489 $\pm$ 0.024 χ^2 /NDF:5980157.3/49

Out: 187.307 $\pm$ 0.025 χ^2 /NDF:7485585.1/55

All: 182.796 $\pm$ 0.017 χ^2 /NDF: 13531130.3/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.612 $\pm$ 7.829 χ^2 /NDF: 27.7/26

Left Out: -15.006 $\pm$ 6.723 χ^2 /NDF:17.5/24

Right Out: 14.280 $\pm$ 7.615 χ^2 /NDF: 26.4/30

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

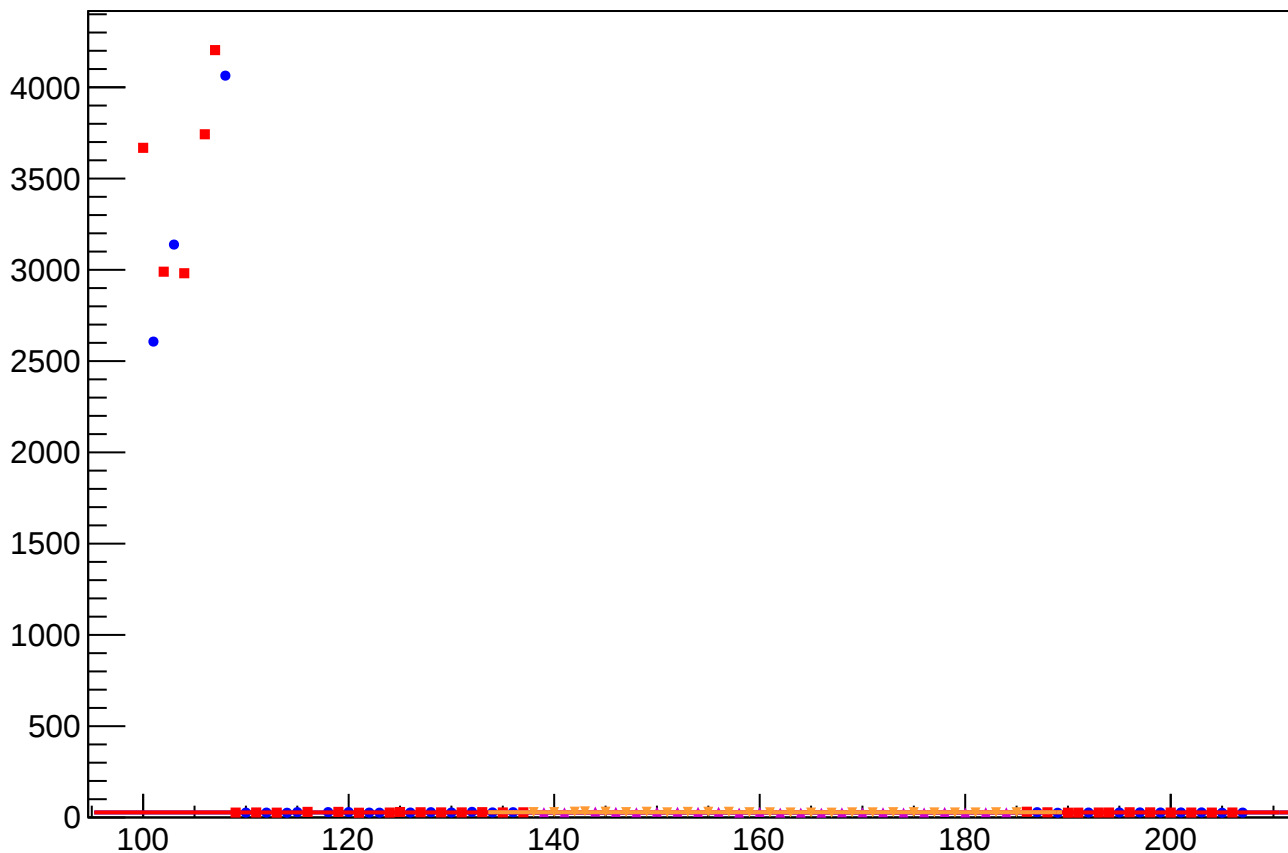
Right: 8.608 $\pm$ 5.459 χ^2 /NDF: 55.2/57

In: 0.749 $\pm$ 5.180 χ^2 /NDF:54.1/49

Out: -2.178 $\pm$ 5.040 χ^2 /NDF:52.2/55

All: -0.754 $\pm$ 3.612 χ^2 /NDF: 106.5/105

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.424 $\pm$ 0.006 χ^2 /NDF: 3047194.4/26

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.558 $\pm$ 0.005 χ^2 /NDF: 3503622.2/30

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

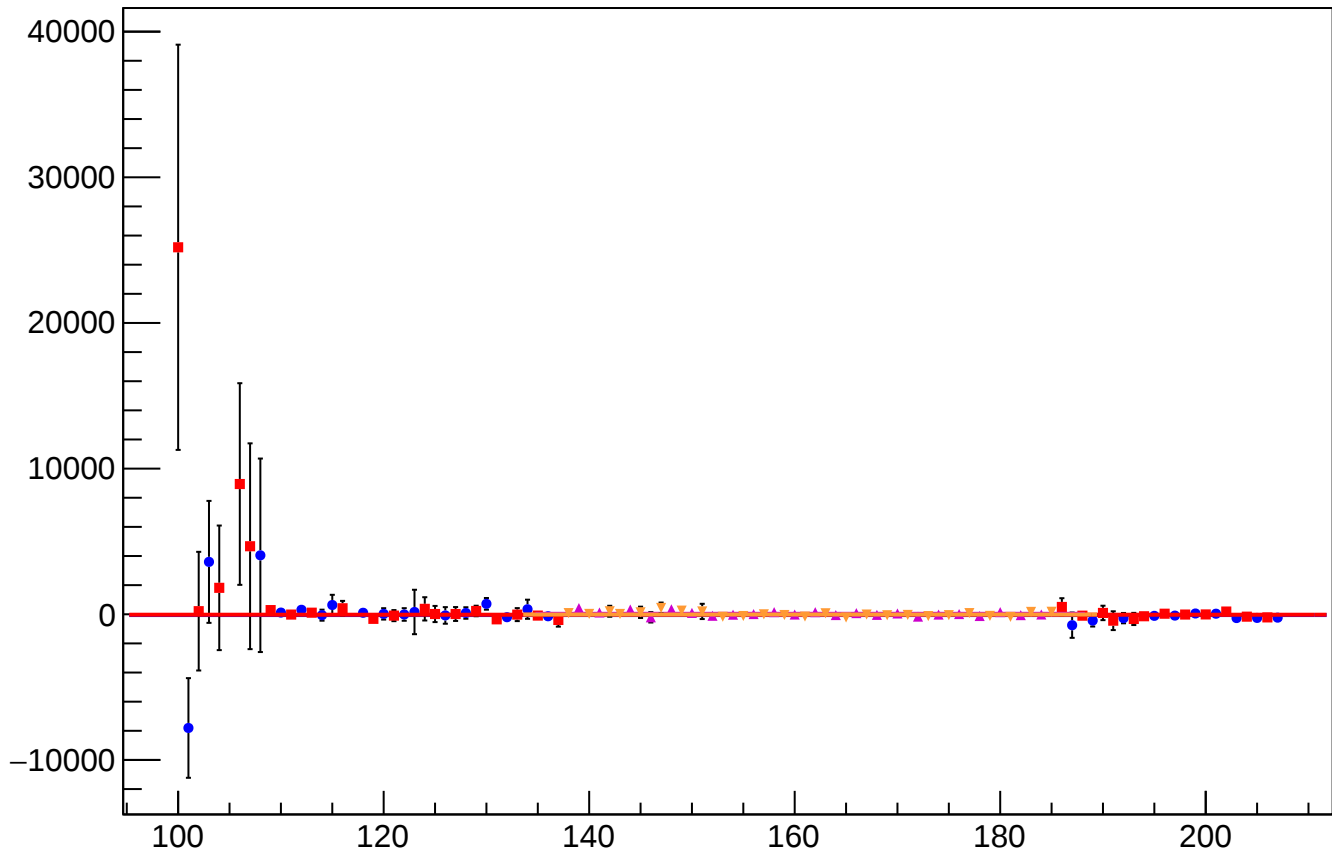
Right: 27.493 $\pm$ 0.004 χ^2 /NDF: 6551117.9/57

In: 28.193 $\pm$ 0.004 χ^2 /NDF: 3210947.8/49

Out: 28.263 $\pm$ 0.004 χ^2 /NDF: 3656111.1/55

All: 28.229 $\pm$ 0.003 χ^2 /NDF: 6867245.5/105

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.362 $\pm$ 51.387 χ^2 /NDF: 21.6/26

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -30.333 $\pm$ 51.033 χ^2 /NDF: 17.4/30

Left In: 31.170 $\pm$ 46.359 χ^2 /NDF:8.2/22

Left: 8.955 $\pm$ 33.574 χ^2 /NDF: 16.6/47

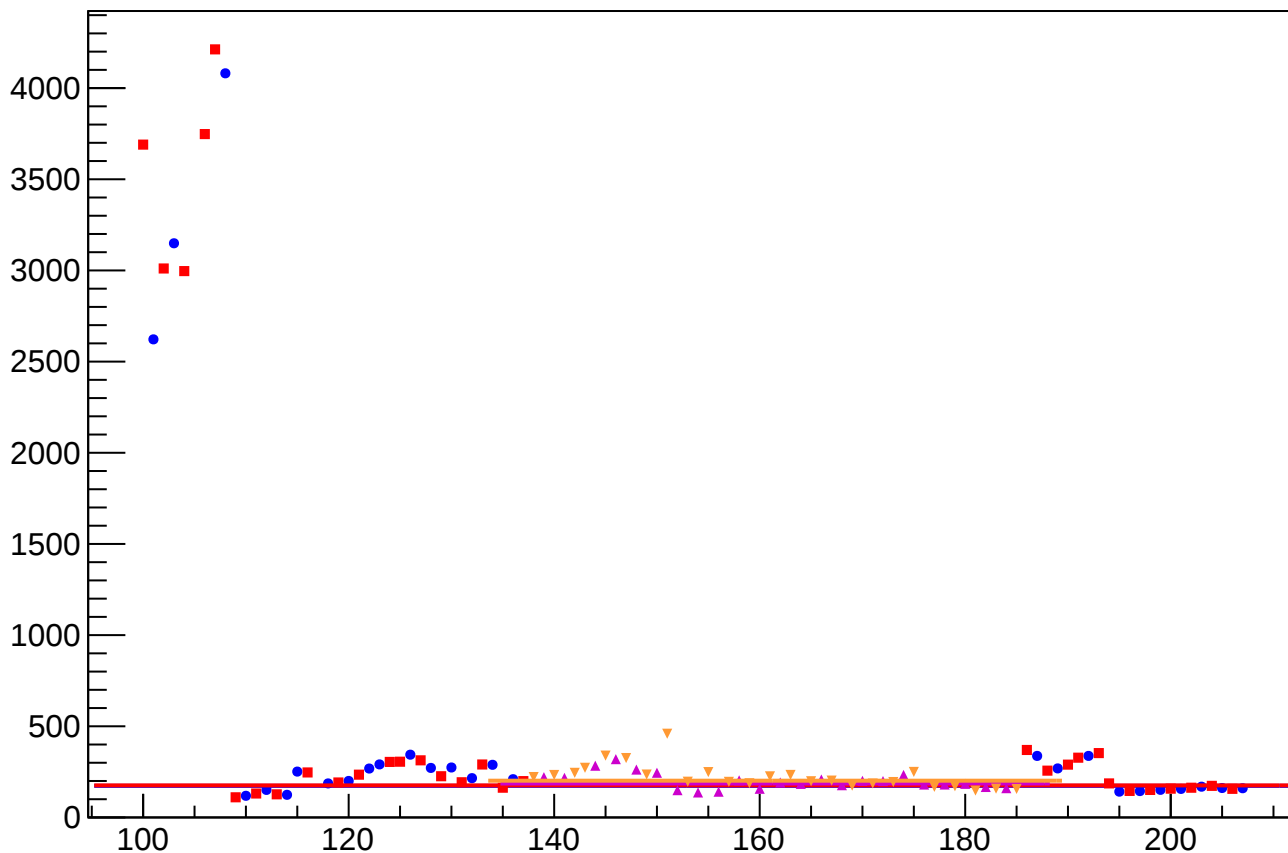
Right: -41.768 $\pm$ 36.210 χ^2 /NDF: 39.1/57

In: -6.759 $\pm$ 34.422 χ^2 /NDF:31.3/49

Out: -22.593 $\pm$ 35.227 χ^2 /NDF:25.4/55

All: -14.493 $\pm$ 24.620 χ^2 /NDF: 56.8/105

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.326+/-0.036 χ^2/NDF : 4469295.6/26

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 175.796+/-0.036 χ^2/NDF : 5292813.4/30

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

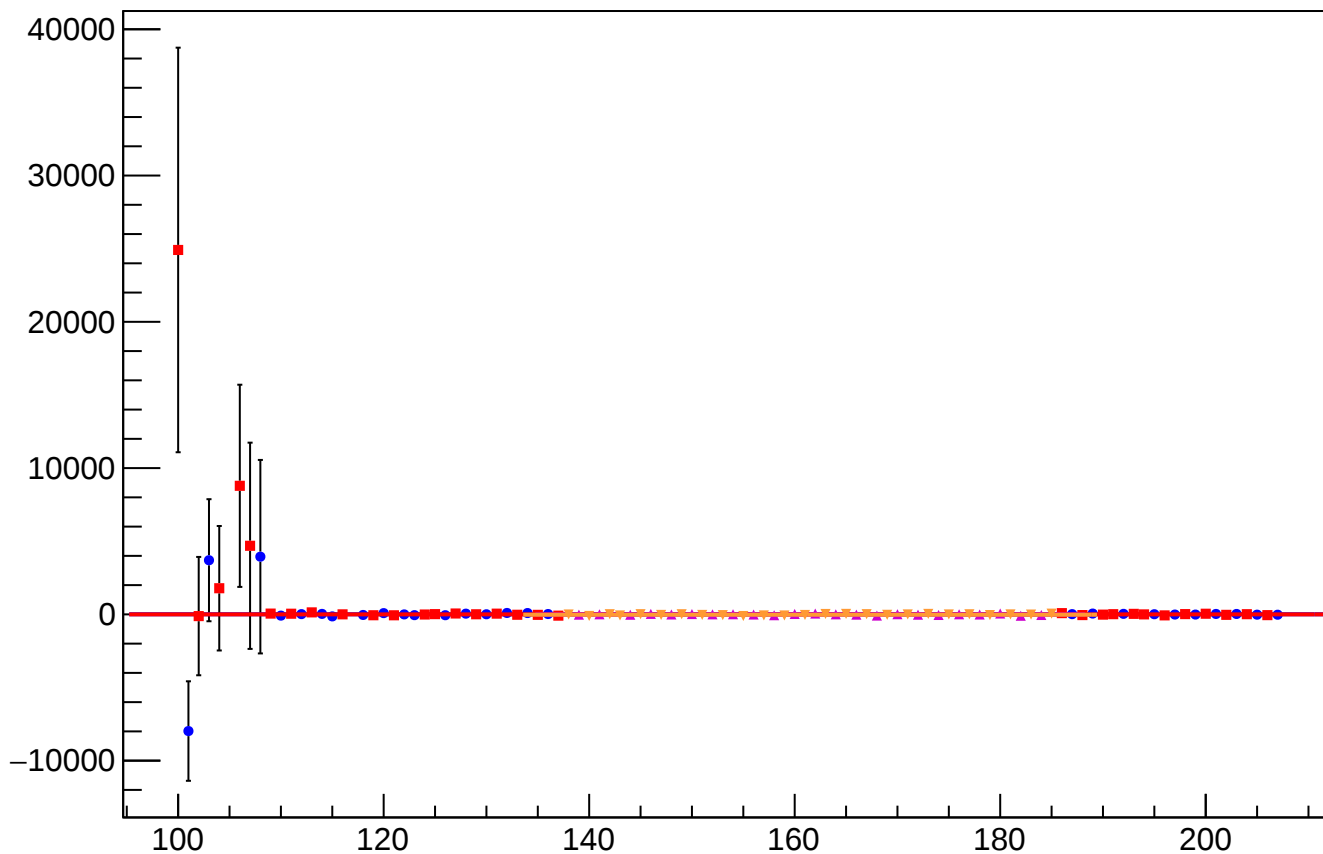
Right: 174.570+/-0.026 χ^2/NDF : 9764436.2/57

In: 180.372+/-0.024 χ^2/NDF : 5928833.7/49

Out: 189.304+/-0.025 χ^2/NDF : 7417949.0/55

All: 184.735+/-0.017 χ^2/NDF : 13412564.8/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.470+/-9.556 χ^2/NDF : 24.4/26

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 0.596+/-9.278 χ^2/NDF : 34.5/30

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

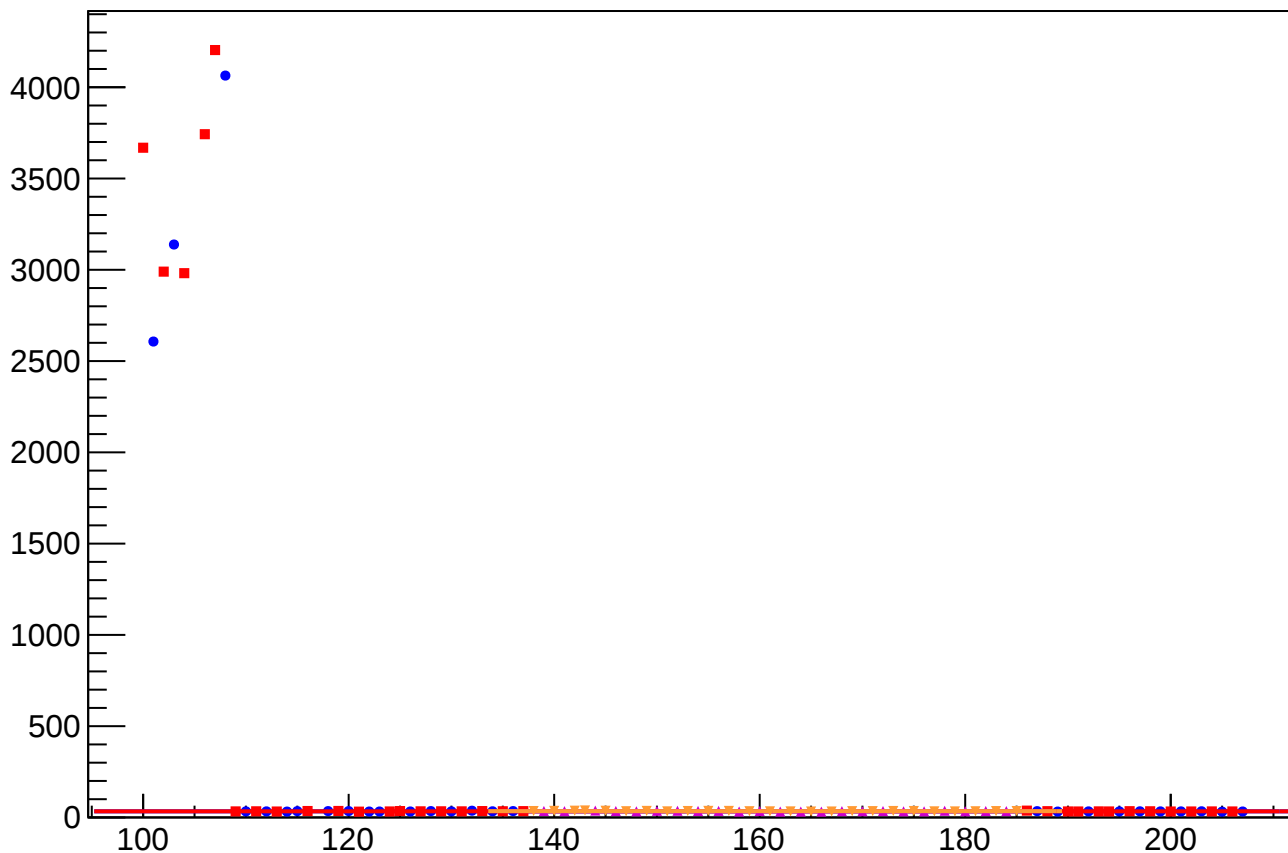
Right: 3.932+/-6.657 χ^2/NDF : 59.2/57

In: -0.201+/-6.270 χ^2/NDF : 46.7/49

Out: -13.050+/-6.087 χ^2/NDF : 64.1/55

All: -6.817+/-4.367 χ^2/NDF : 113.0/105

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.497 $\pm$ 0.007 χ^2 /NDF: 3018942.3/26

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.623 $\pm$ 0.007 χ^2 /NDF: 3467551.3/30

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

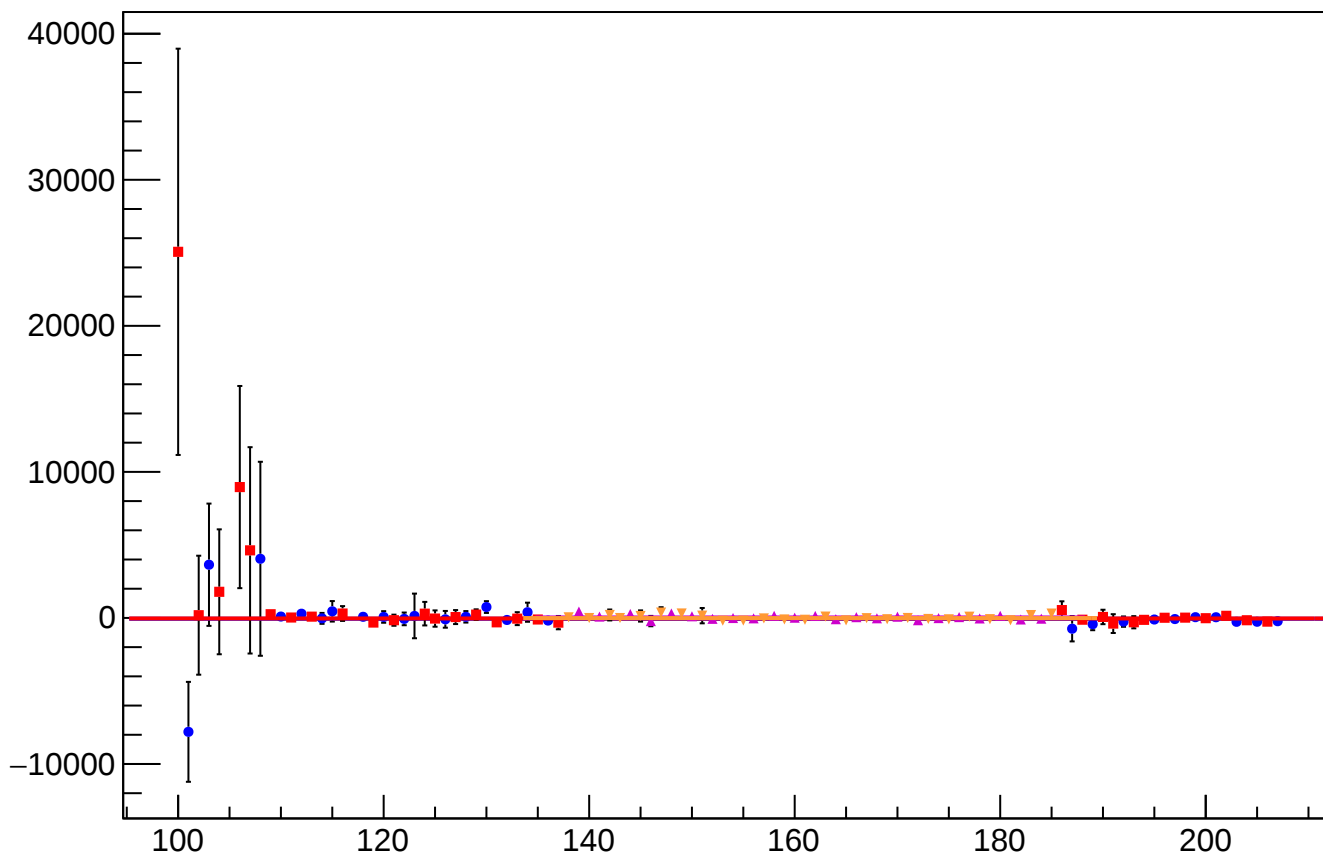
Right: 33.562 $\pm$ 0.005 χ^2 /NDF: 6486671.5/57

In: 34.174 $\pm$ 0.004 χ^2 /NDF: 3096860.2/49

Out: 34.188 $\pm$ 0.004 χ^2 /NDF: 3538513.4/55

All: 34.181 $\pm$ 0.003 χ^2 /NDF: 6635378.7/105

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.096 $\pm$ 51.236 χ^2 /NDF: 21.2/26

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: -36.562 $\pm$ 50.833 χ^2 /NDF: 16.3/30

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF:7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

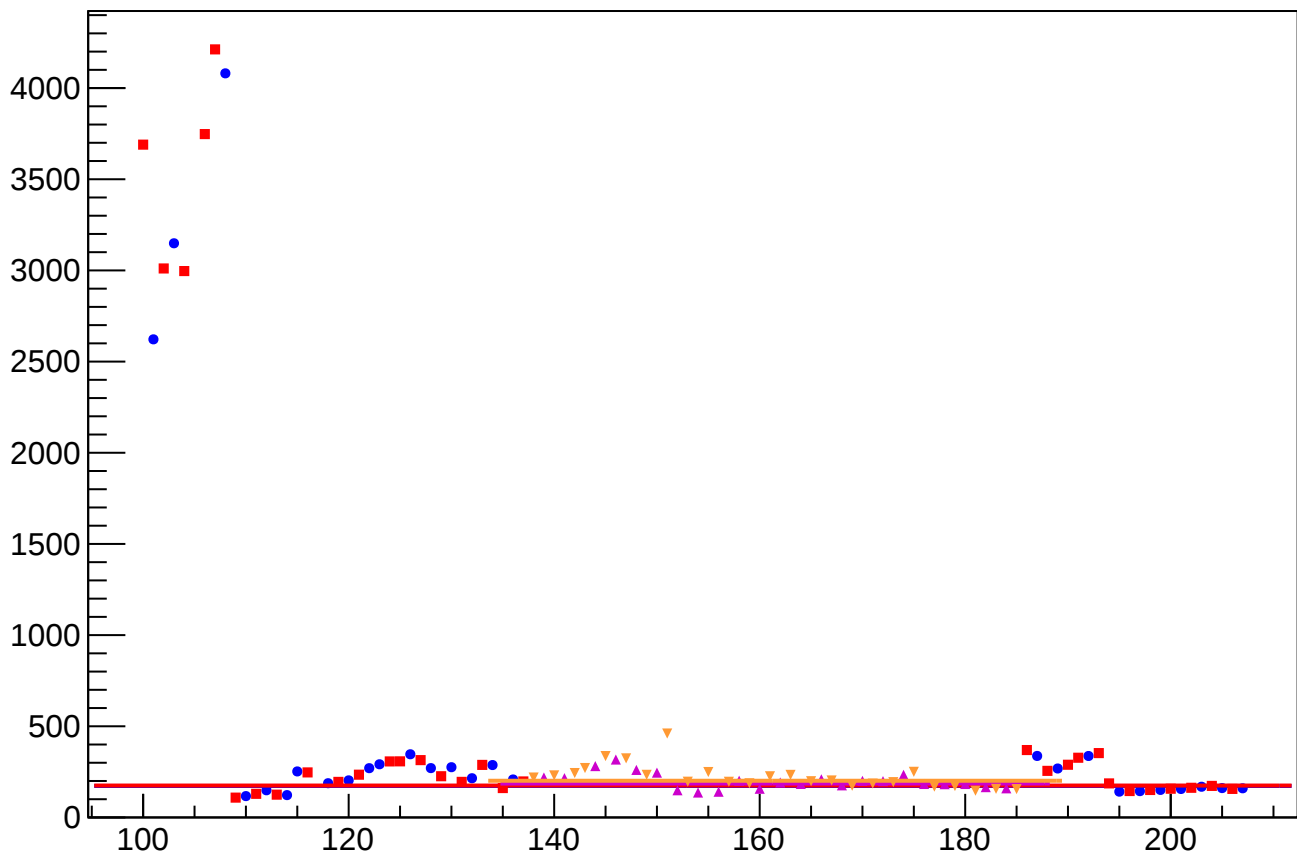
Right: -46.252 $\pm$ 36.086 χ^2 /NDF: 37.6/57

In: -6.426 $\pm$ 34.350 χ^2 /NDF:30.4/49

Out: -22.123 $\pm$ 35.134 χ^2 /NDF:25.0/55

All: -14.098 $\pm$ 24.562 χ^2 /NDF: 55.5/105

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.720 $\pm$ 0.036 χ^2 /NDF: 4498181.2/26

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 174.923 $\pm$ 0.036 χ^2 /NDF: 5341665.9/30

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

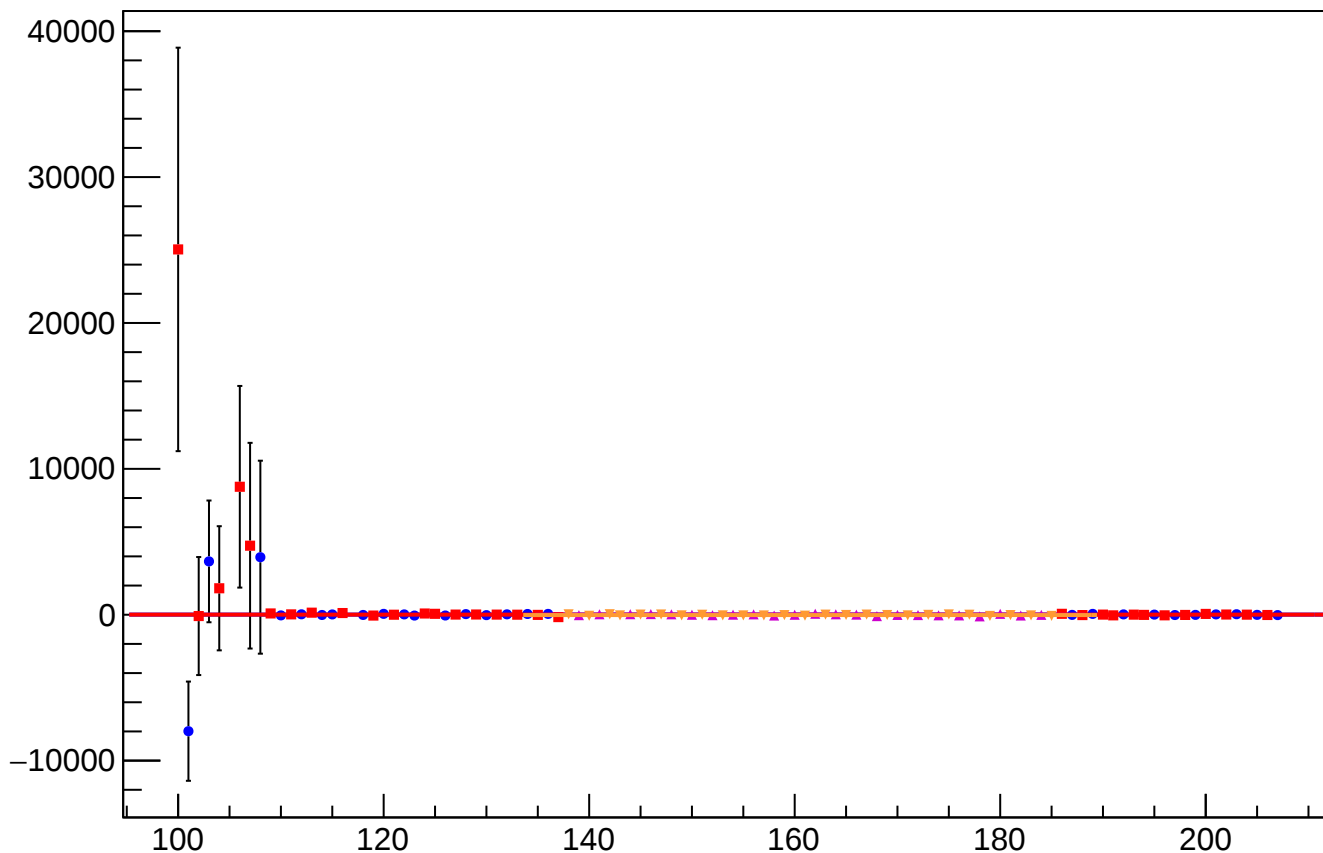
Right: 173.830 $\pm$ 0.026 χ^2 /NDF: 9841709.7/57

In: 179.951 $\pm$ 0.024 χ^2 /NDF:5952297.9/49

Out: 188.698 $\pm$ 0.025 χ^2 /NDF:7473979.1/55

All: 184.225 $\pm$ 0.017 χ^2 /NDF: 13489656.6/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.745+/-8.650 χ^2/NDF : 19.3/26

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 7.372+/-8.404 χ^2/NDF : 37.3/30

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

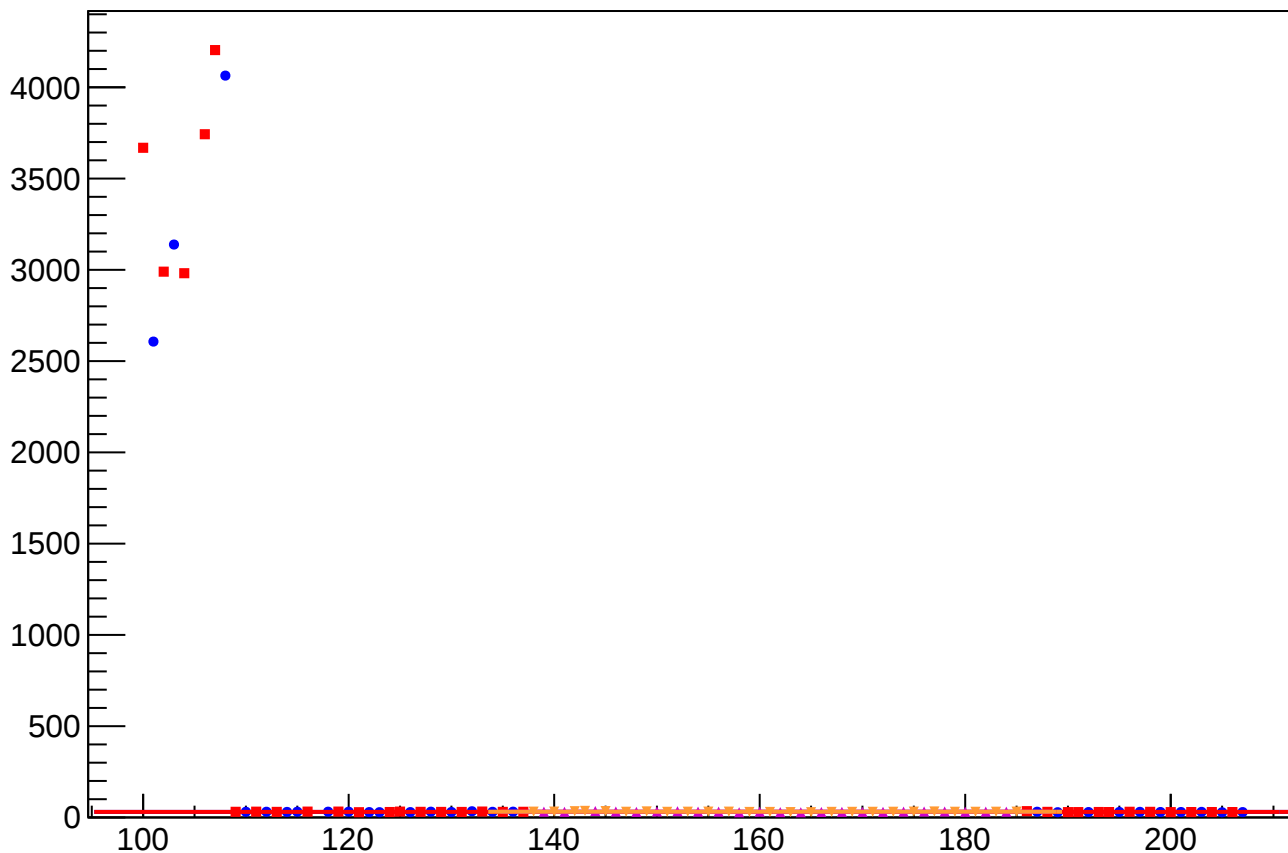
Right: 8.038+/-6.028 χ^2/NDF : 56.6/57

In: 0.407+/-5.688 χ^2/NDF : 59.2/49

Out: -9.788+/-5.528 χ^2/NDF : 63.4/55

All: -4.836+/-3.964 χ^2/NDF : 124.3/105

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.312 $\pm$ 0.006 χ^2 /NDF: 3036413.6/26

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.431 $\pm$ 0.006 χ^2 /NDF: 3483907.8/30

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

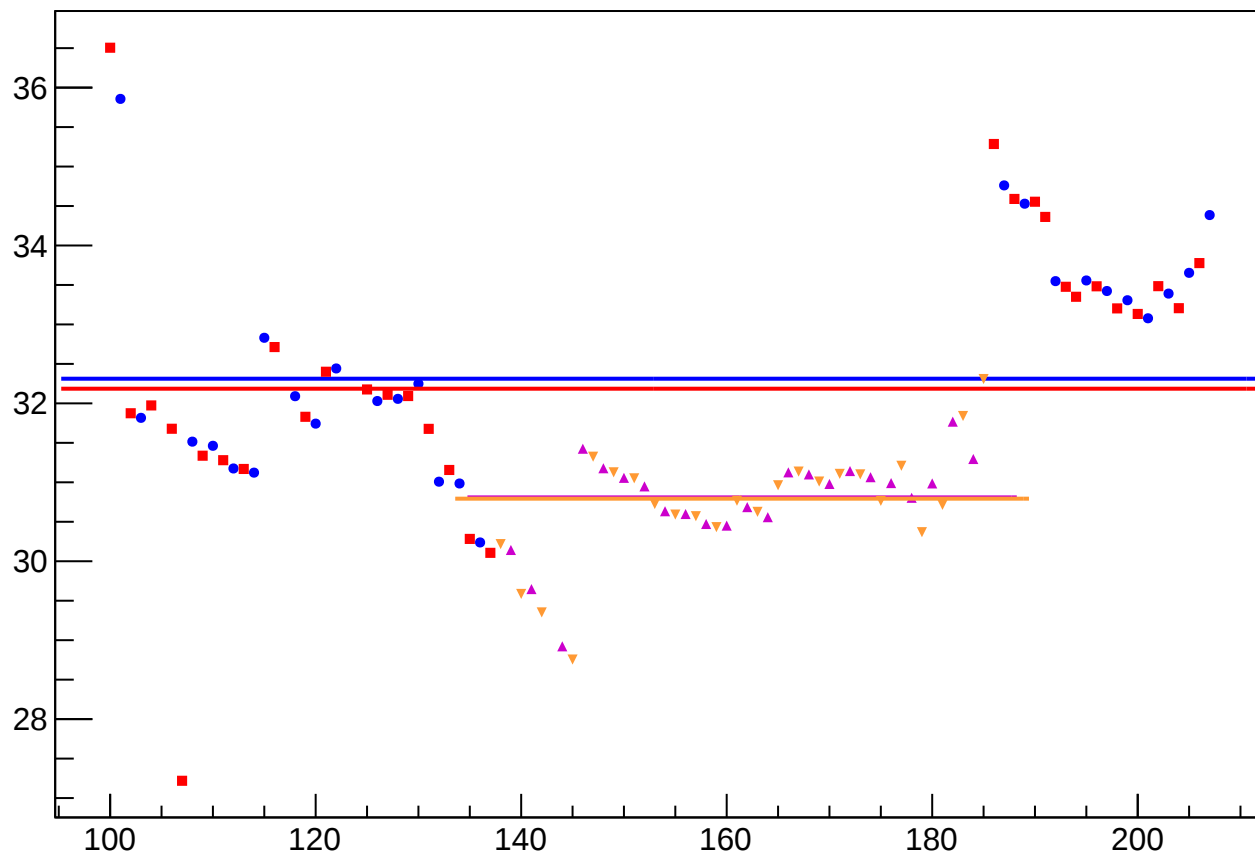
Right: 30.373 $\pm$ 0.004 χ^2 /NDF: 6520514.9/57

In: 30.977 $\pm$ 0.004 χ^2 /NDF:3145251.6/49

Out: 31.027 $\pm$ 0.004 χ^2 /NDF:3584094.1/55

All: 31.003 $\pm$ 0.003 χ^2 /NDF: 6729423.2/105

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.312+/-0.000

χ^2/NDF : 2779525607.2/25

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right: 32.250+/-0.000

χ^2/NDF : 5125055566.2/55

Right Out: 32.186+/-0.000

χ^2/NDF : 2332287518.2/29

In: 31.389+/-0.000

χ^2/NDF : 5925942806.4/48

Out: 31.310+/-0.000

χ^2/NDF : 5327000388.6/53

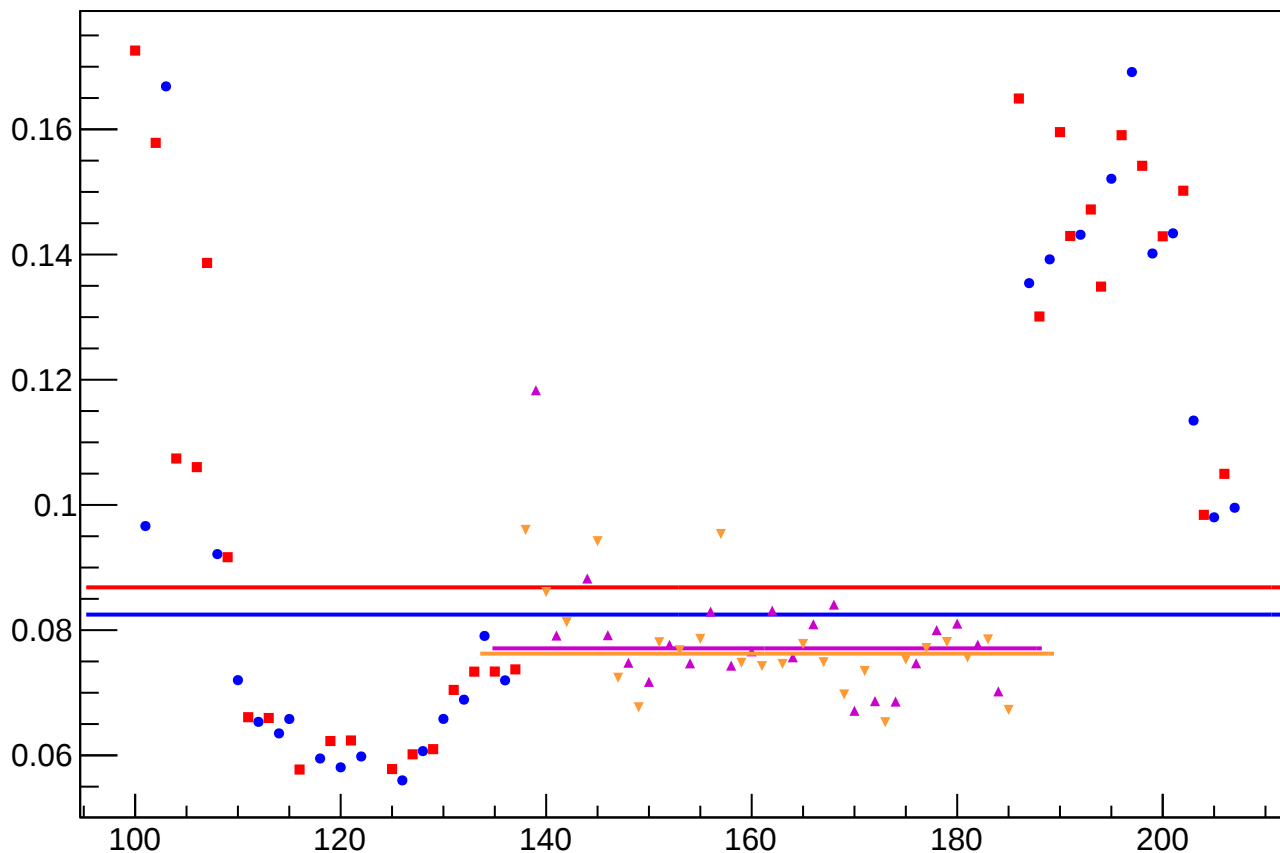
Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

All: 31.349+/-0.000

χ^2/NDF : 11266775755.6

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.082+/-0.000 χ^2/NDF : 3119967.0/25

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.087+/-0.000 χ^2/NDF : 3605774.3/29

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

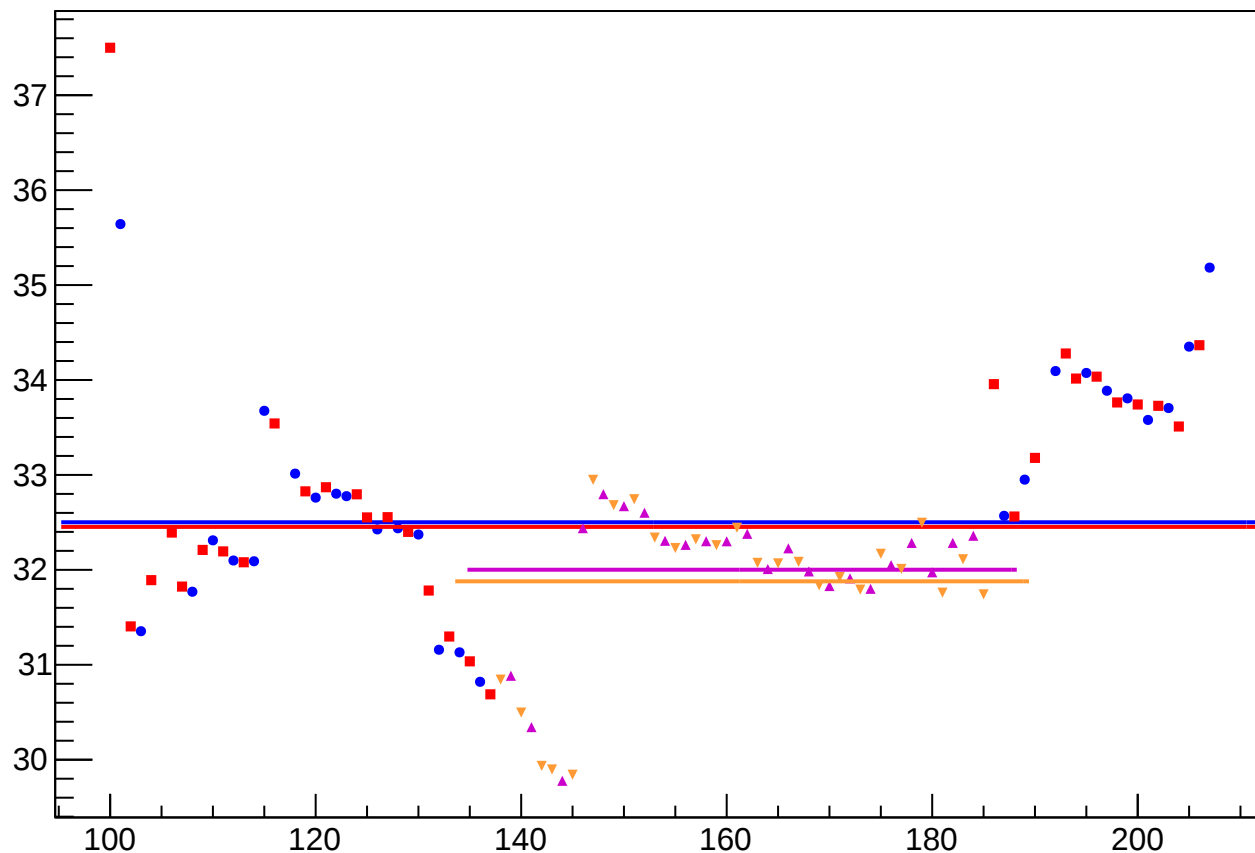
Right: 0.085+/-0.000 χ^2/NDF : 6756988.1/55

In: 0.079+/-0.000 χ^2/NDF : 3505709.0/48

Out: 0.080+/-0.000 χ^2/NDF : 4113249.1/53

All: 0.080+/-0.000 χ^2/NDF : 7623364.9/102

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.501+/-0.000 χ^2/NDF : 1500888545.9/26

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.452+/-0.000 χ^2/NDF : 862401173.5/29

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

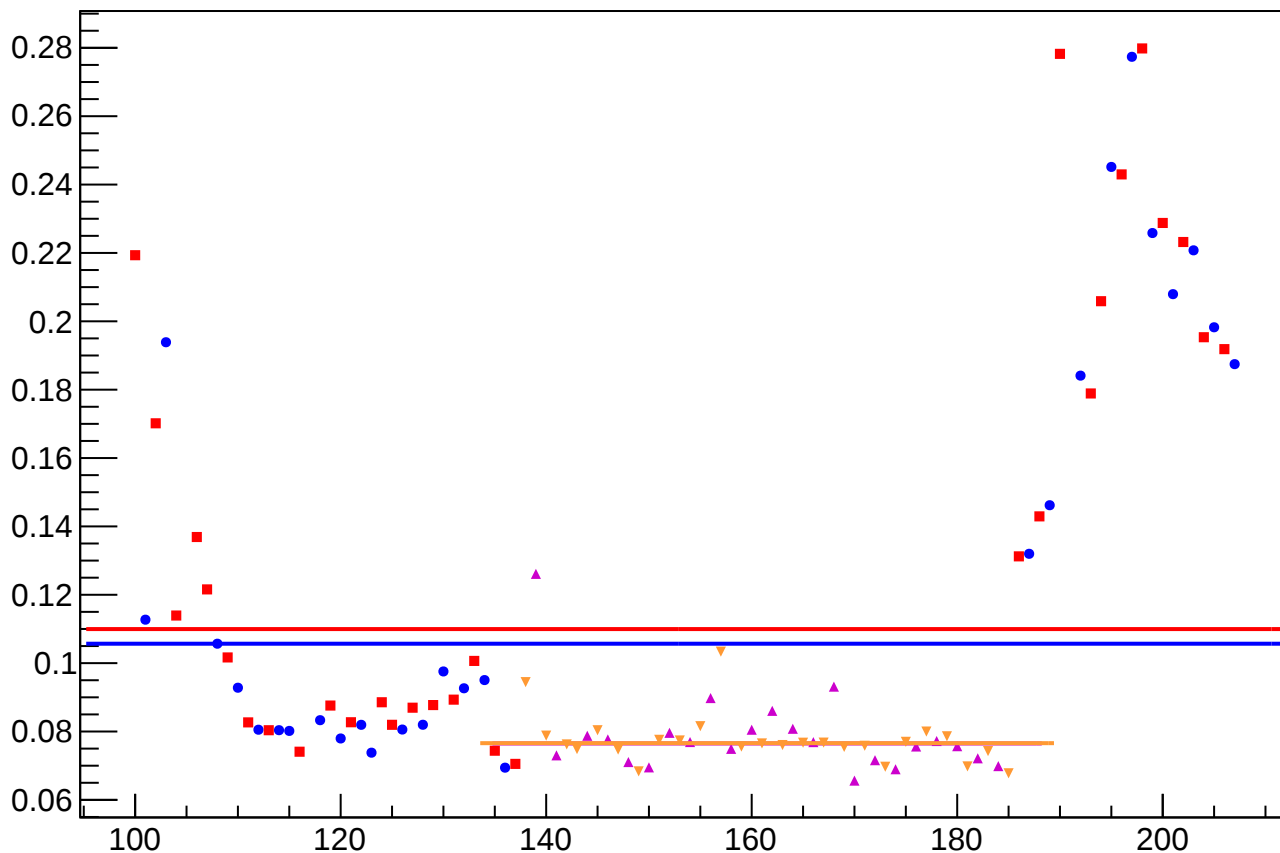
Right: 32.477+/-0.000 χ^2/NDF : 2364426840.3/56

In: 32.130+/-0.000 χ^2/NDF : 3088479293.5/49

Out: 32.023+/-0.000 χ^2/NDF : 3075237012.4/54

All: 32.075+/-0.000 χ^2/NDF : 6185372748.1/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.000 χ^2 /NDF: 4506392.9/26

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 4376815.9/29

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

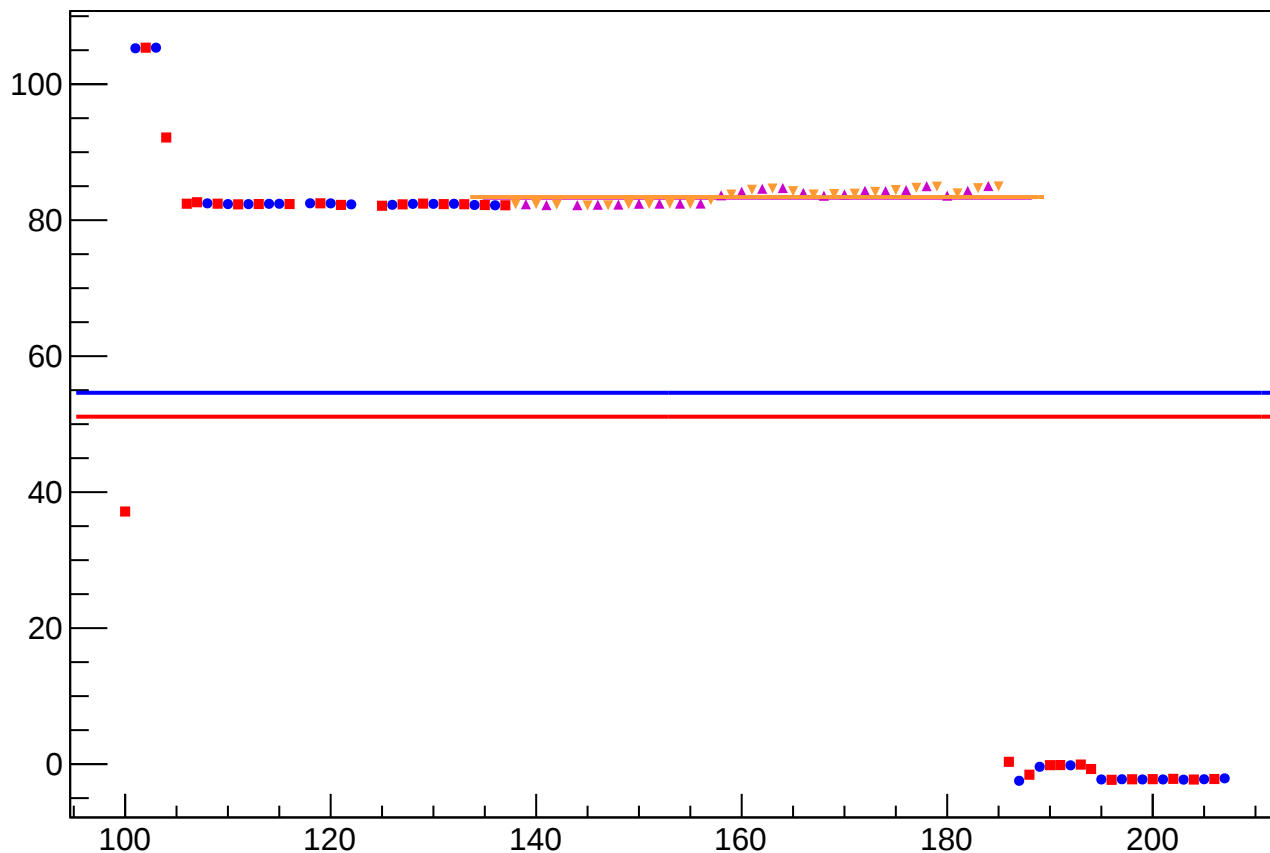
Right: 0.108 $\pm$ 0.000 χ^2 /NDF: 8900734.5/56

In: 0.084 $\pm$ 0.000 χ^2 /NDF:6141789.6/49

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:6190053.4/54

All: 0.084 $\pm$ 0.000 χ^2 /NDF: 12335176.6/104

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000

χ^2/NDF : 10853512434400.4/25

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 : 22419833908677.2/24

Right Out: 51.099+/-0.000

χ^2/NDF : 11528413992773.5/29

In: 71.422+/-0.000

χ^2/NDF : 13699349247406.1/48

Out: 69.320+/-0.000

χ^2/NDF : 15306966756374.3/50

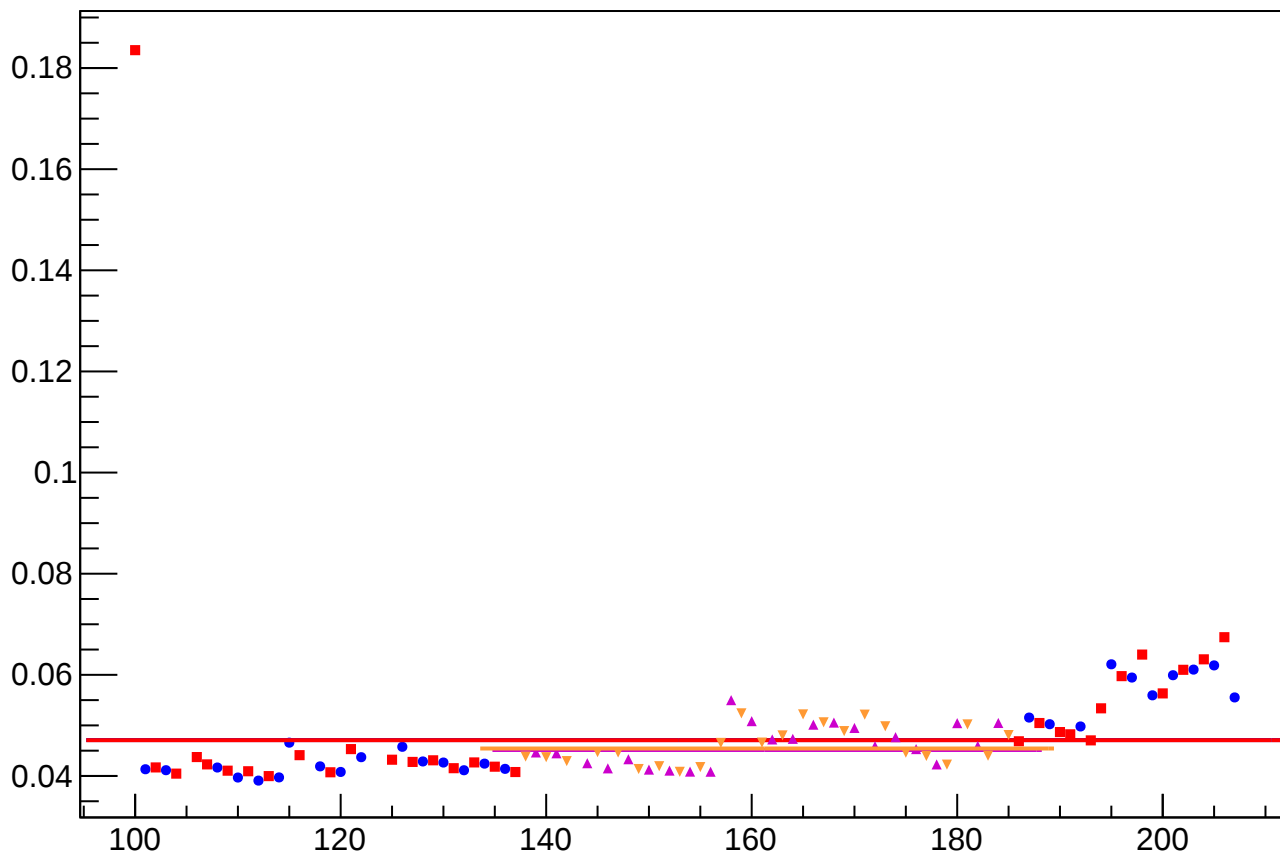
Left In: 83.309+/-0.000

χ^2/NDF : 8421247810.9/22

All: 70.353+/-0.000

χ^2/NDF : 2903824167941.1/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 714264.2/25

Left Out: 0.045+/-0.000 χ^2/NDF : 206685.9/23

Right Out: 0.047+/-0.000 χ^2/NDF : 842763.5/29

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

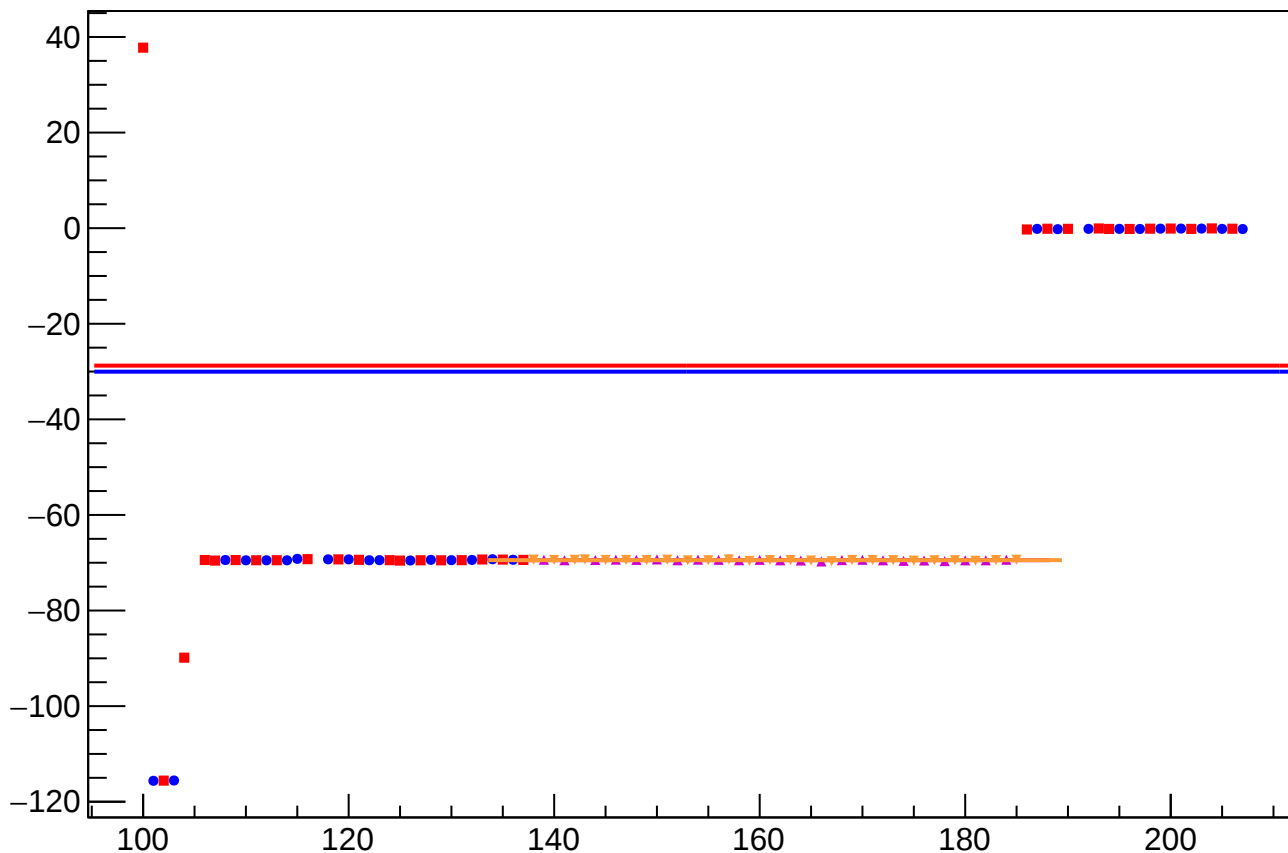
Right: 0.047+/-0.000 χ^2/NDF : 1557031.5/55

In: 0.046+/-0.000 χ^2/NDF : 983578.9/48

Out: 0.046+/-0.000 χ^2/NDF : 1069015.8/53

All: 0.046+/-0.000 χ^2/NDF : 2053137.7/102

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000

χ^2/NDF : 7479127488195.0/26

Left: -69.460+/-0.000

χ^2/NDF : 102399164.0/47

Left Out: -69.461+/-0.000

χ^2/NDF : 49572401.9/24

Right: -29.369+/-0.000

χ^2/NDF : 14808896545603.4

Right Out: -28.760+/-0.000

χ^2/NDF : 7325679650625.8/29

In: -50.762+/-0.000

χ^2/NDF : 11497069082052.6/4

Out: -50.075+/-0.000

χ^2/NDF : 11926088942045.6/1

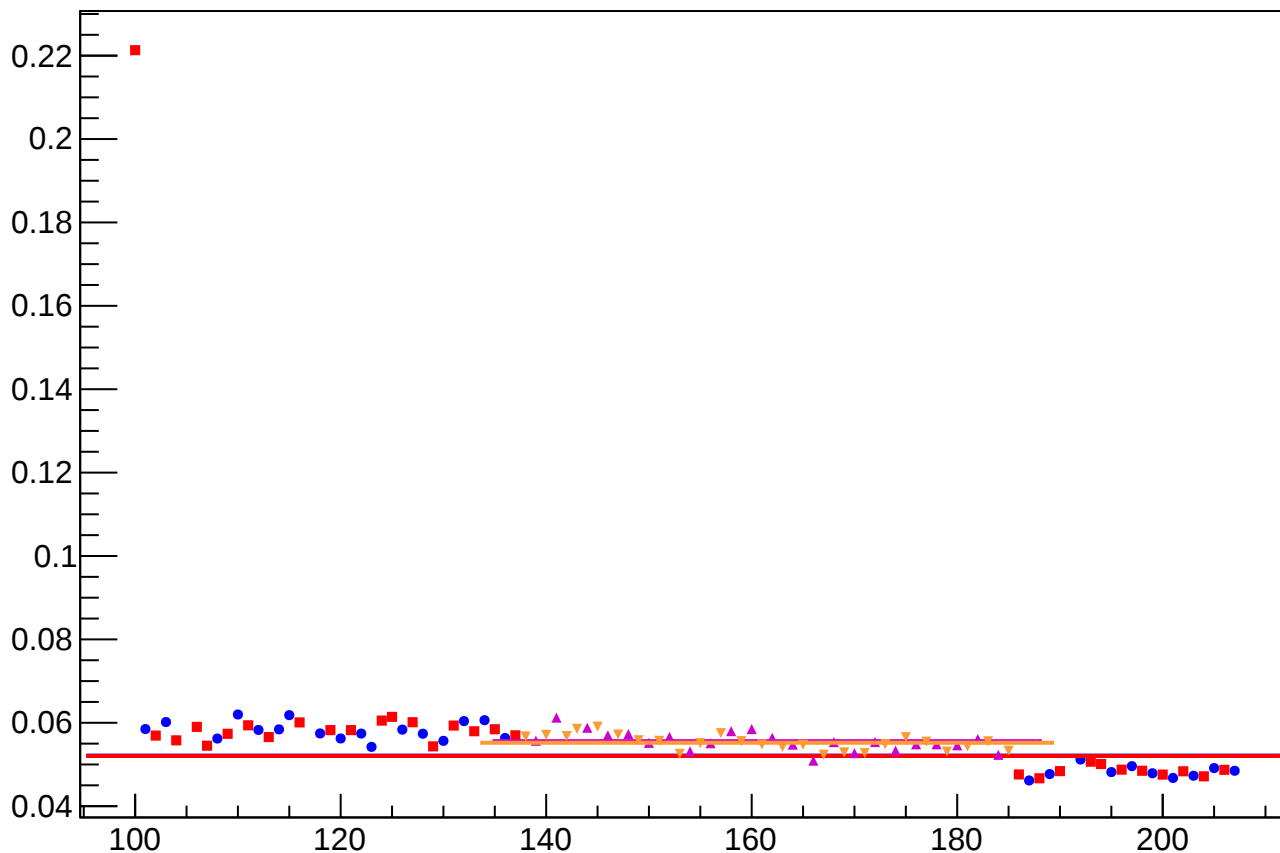
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -50.406+/-0.000

χ^2/NDF : 234256903540

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 235450.6/26

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 322744.9/29

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

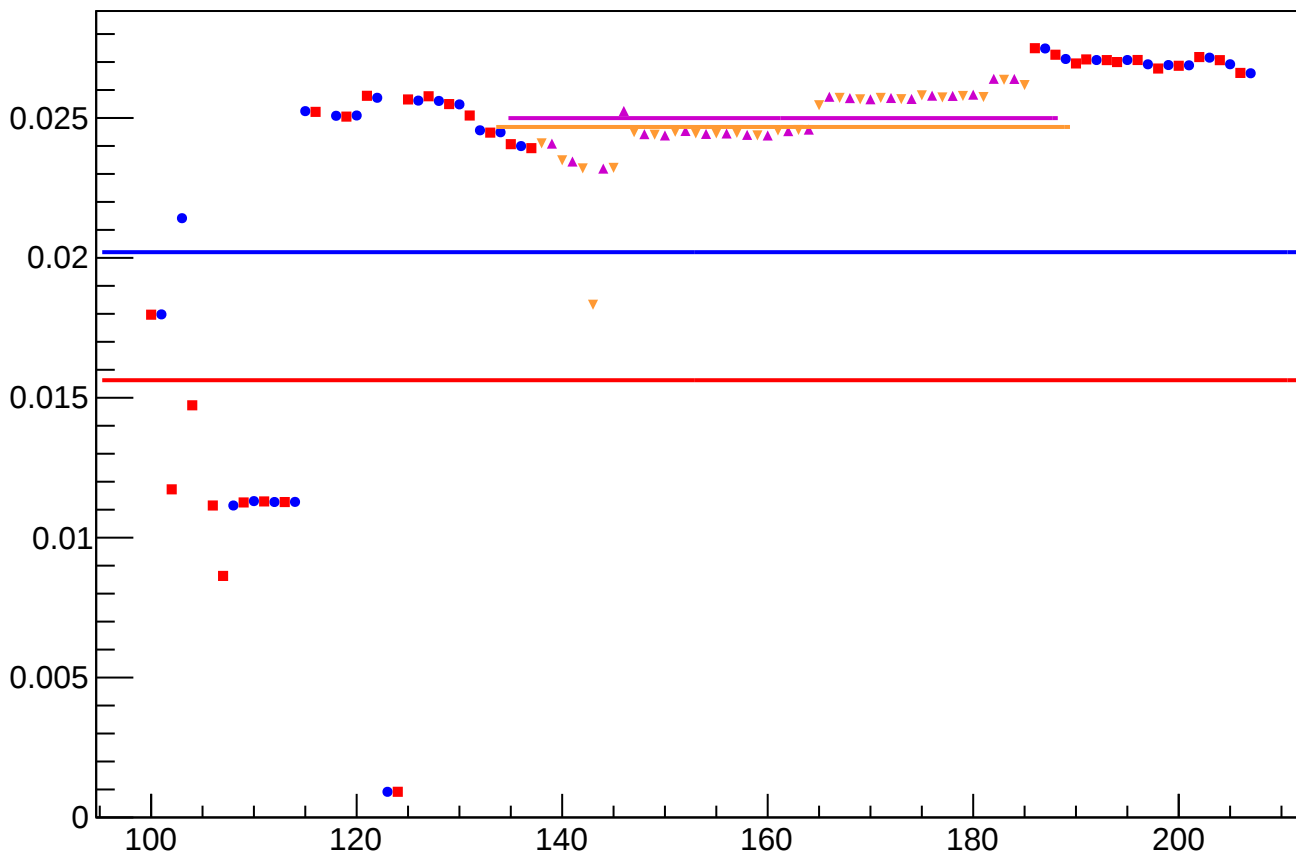
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 558243.3/56

In: 0.054 $\pm$ 0.000 χ^2 /NDF:349502.0/49

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:417398.8/54

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 767598.5/104

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 181695459675.0/26

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.018+/-0.000

χ^2/NDF : 607776135547.6/57

Right Out: 0.016+/-0.000

χ^2/NDF : 396330384962.0/30

In: 0.023+/-0.000

χ^2/NDF : 217668663484.3/49

Out: 0.020+/-0.000

χ^2/NDF : 549281897937.5/55

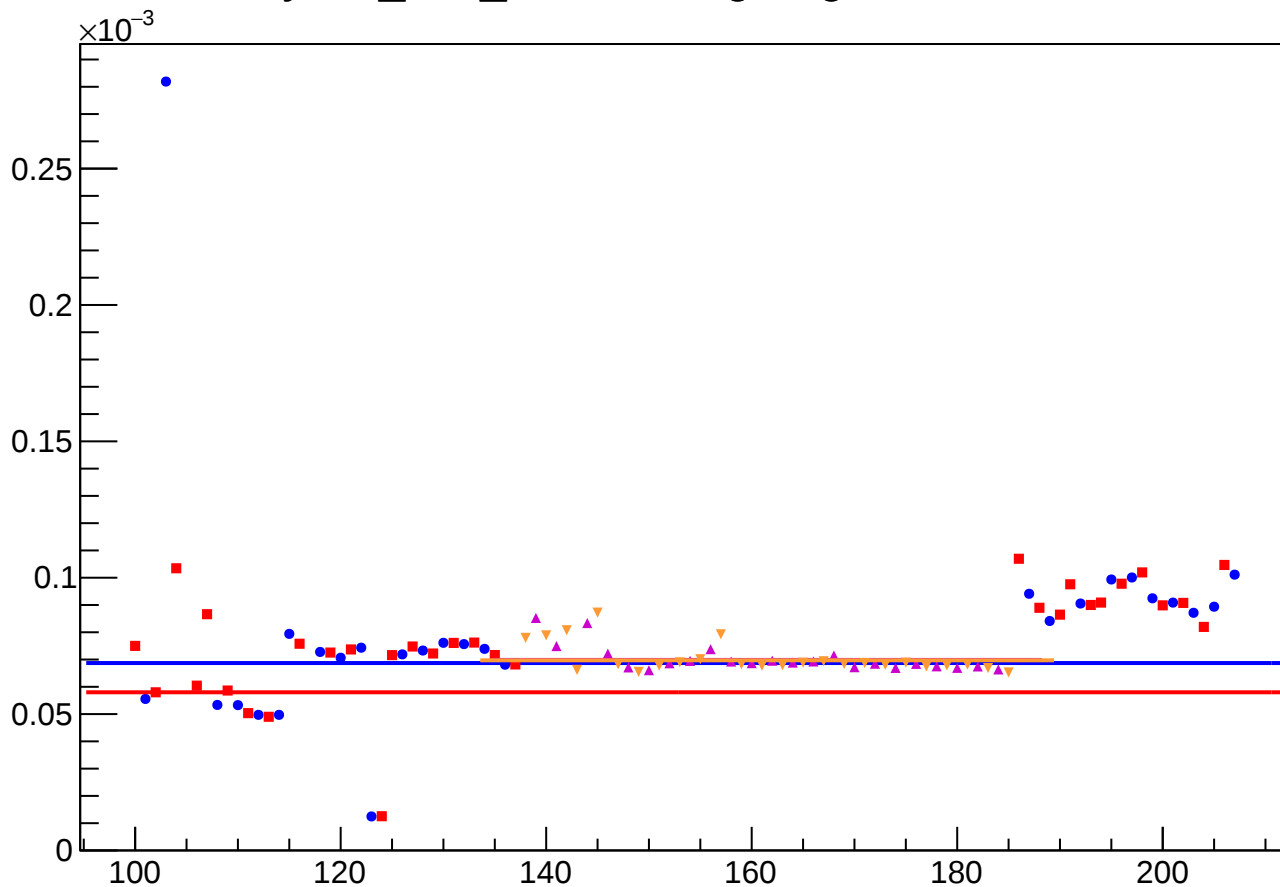
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 788646496975.1

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3434279.6/26

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6705716.0/30

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

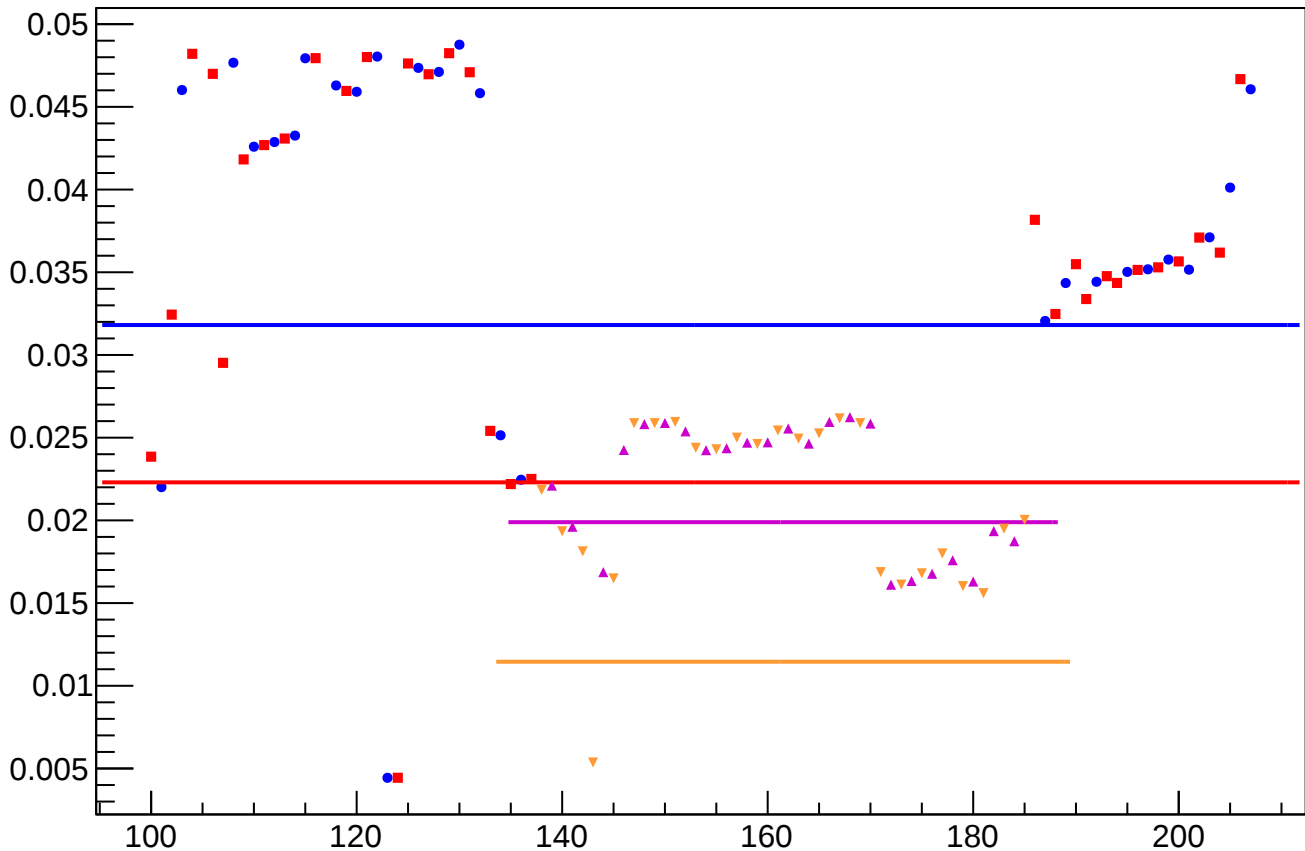
Right: 0.000+/-0.000 χ^2/NDF : 10466666.0/57

In: 0.000+/-0.000 χ^2/NDF :3567360.1/49

Out: 0.000+/-0.000 χ^2/NDF :7344426.6/55

All: 0.000+/-0.000 χ^2/NDF : 11085795.6/105

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 21740109940.4/26

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 40294472965.0/24

Right Out: 0.022 $\pm$ 0.000 χ^2 /NDF: 44280788675.8/30

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF: 4458790813.3/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 59527747529.2/47

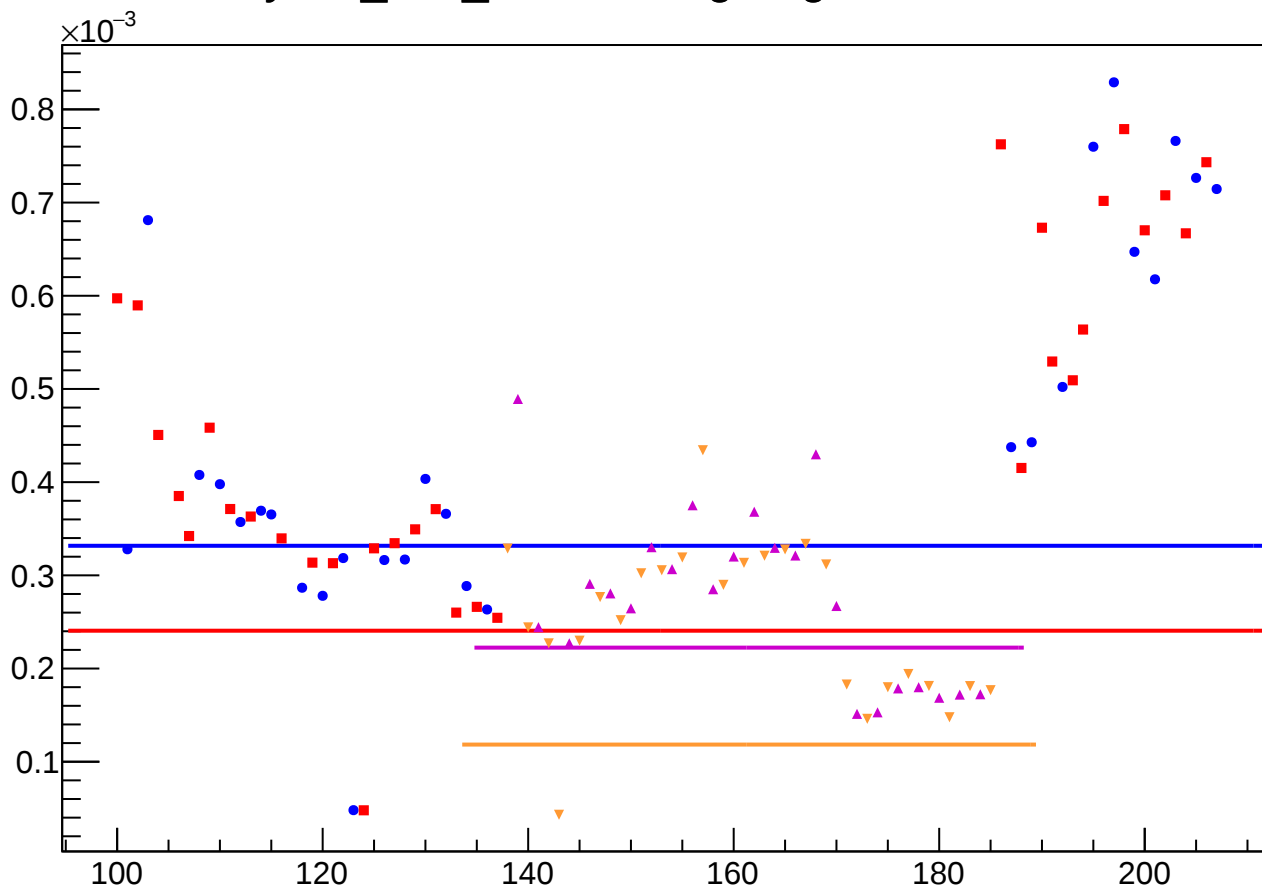
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 70862554157.2/57

In: 0.023 $\pm$ 0.000 χ^2 /NDF: 35762239867.5/49

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 98176290863.5/55

All: 0.016 $\pm$ 0.000 χ^2 /NDF: 157310184522.9

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6413771.5/26

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11972573.7/30

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

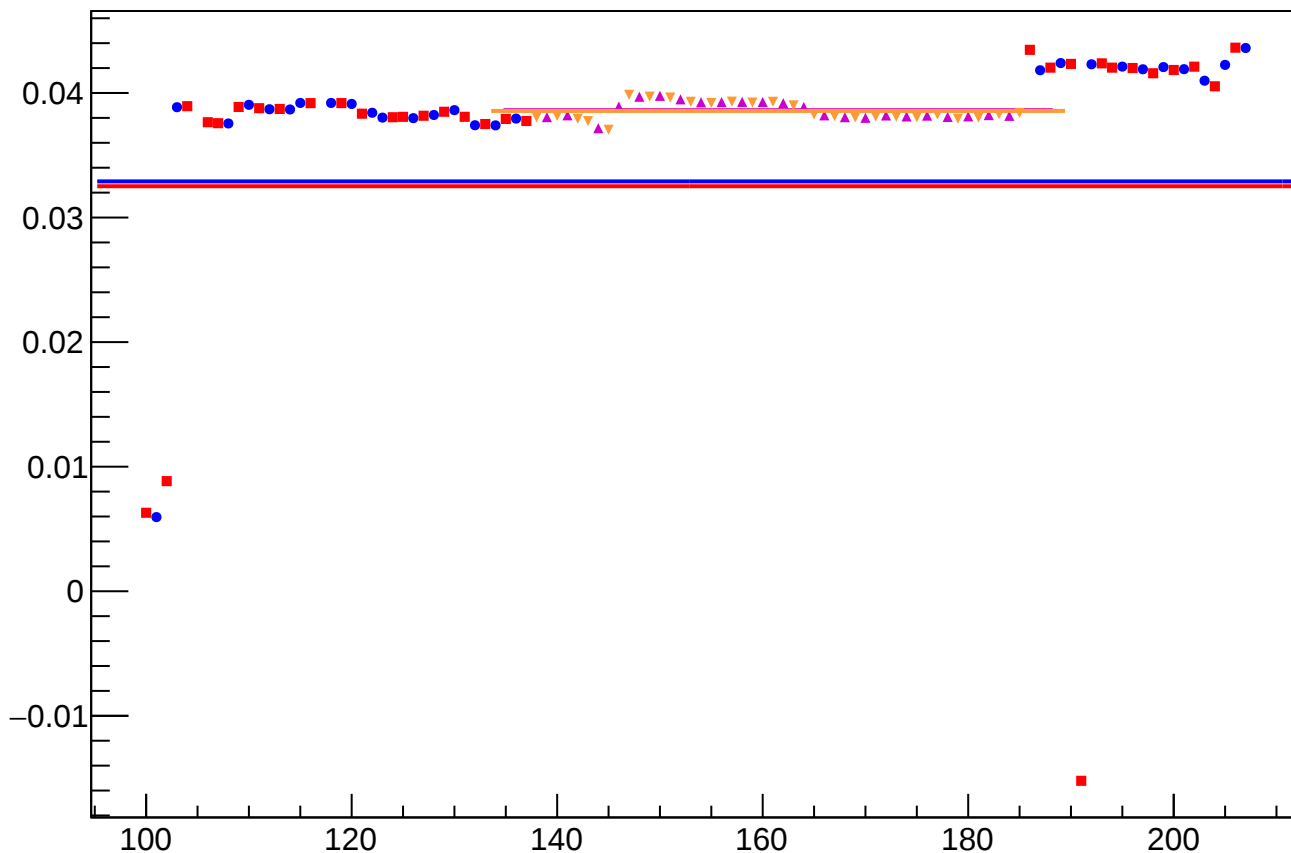
Right: 0.000+/-0.000 χ^2/NDF : 19275232.7/57

In: 0.000+/-0.000 χ^2/NDF :11302762.3/49

Out: 0.000+/-0.000 χ^2/NDF :28988556.7/55

All: 0.000+/-0.000 χ^2/NDF : 46589200.3/105

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.033+/-0.000

χ^2/NDF : 115471947807.2/26

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.033+/-0.000

χ^2/NDF : 296549986782.7/57

Right Out: 0.033+/-0.000

χ^2/NDF : 181029816564.9/30

In: 0.036+/-0.000

χ^2/NDF : 128626067761.1/49

Out: 0.036+/-0.000

χ^2/NDF : 196418532253.9/55

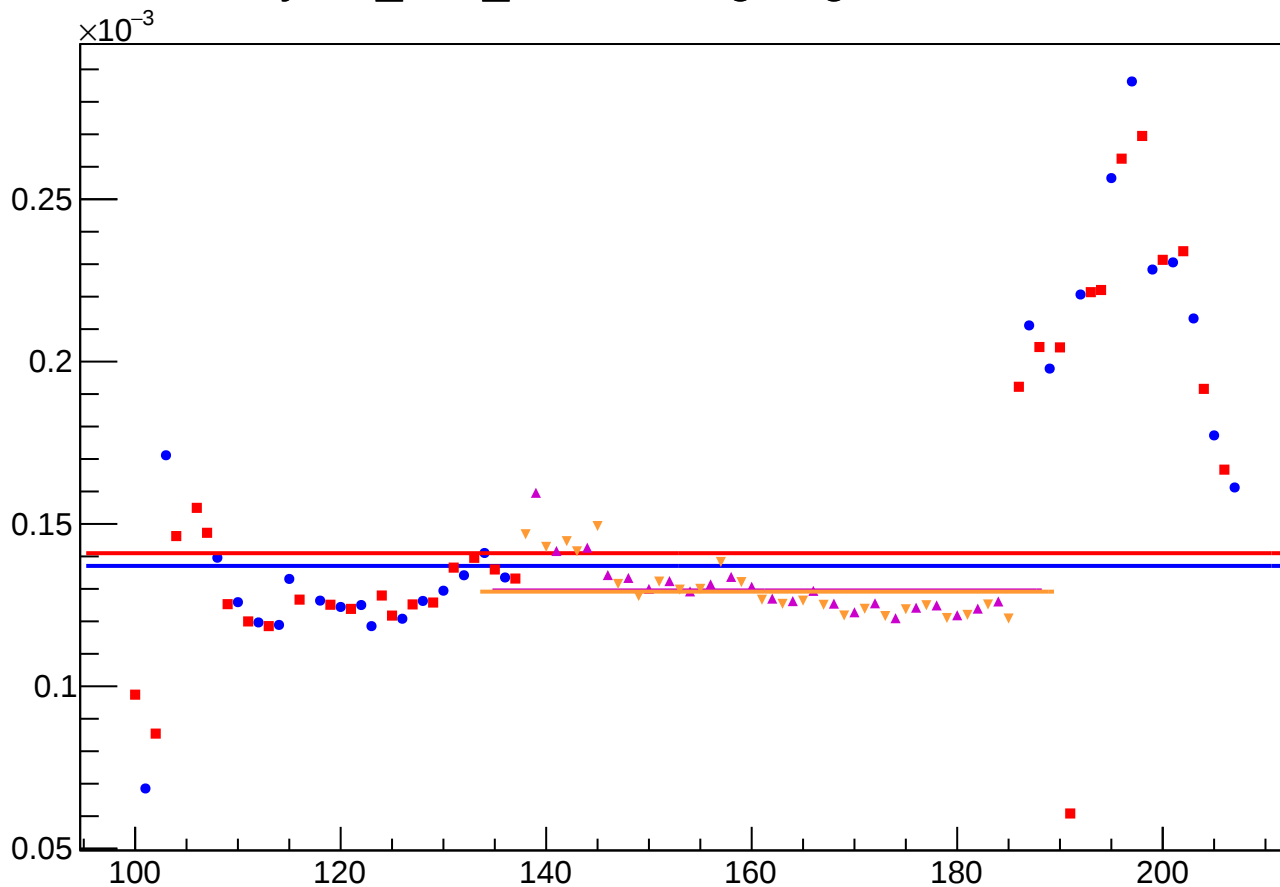
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 325064120862.8

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3215985.6/26

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3074281.1/30

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

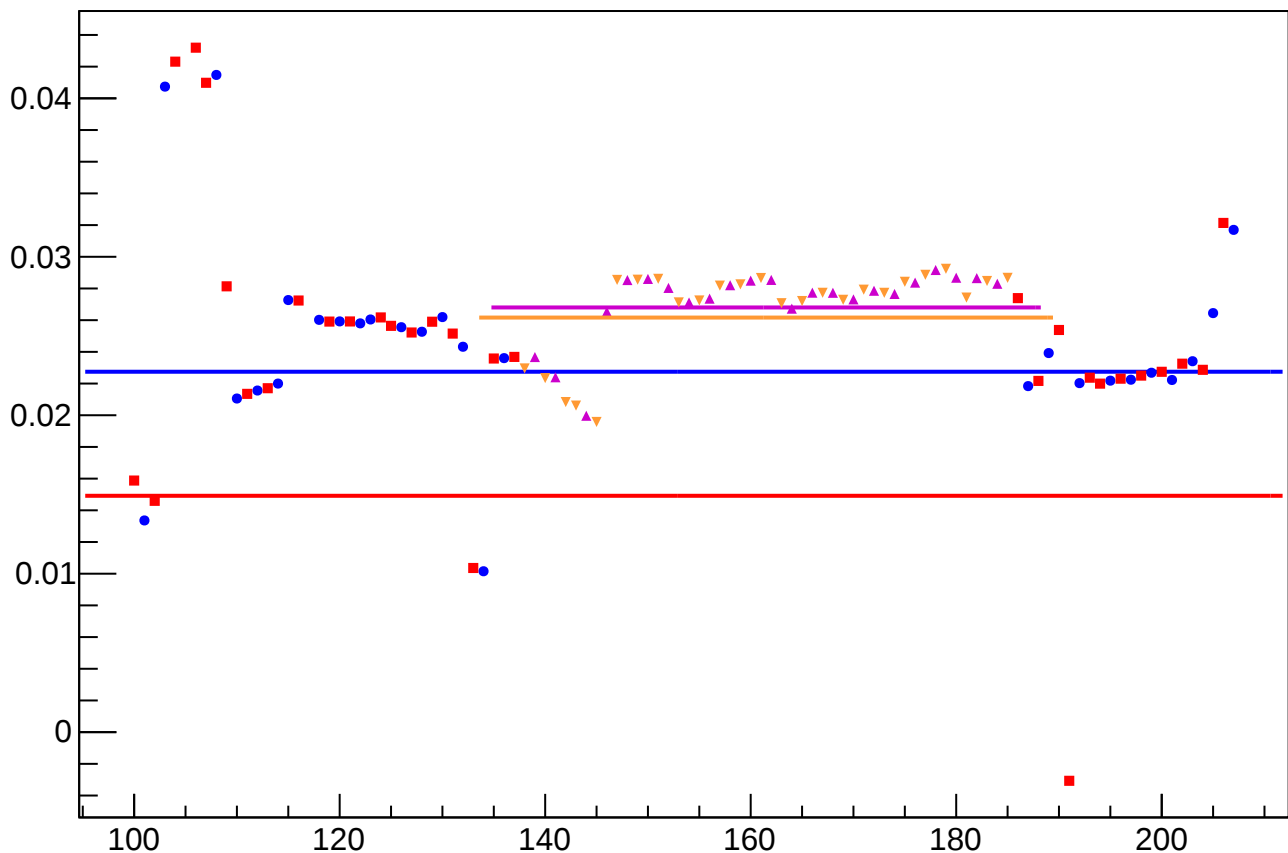
Right: 0.000+/-0.000 χ^2/NDF : 6300070.3/57

In: 0.000+/-0.000 χ^2/NDF :3374964.5/49

Out: 0.000+/-0.000 χ^2/NDF :3318518.1/55

All: 0.000+/-0.000 χ^2/NDF : 6695895.0/105

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4401543739.0/26

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31542624087.9/30

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

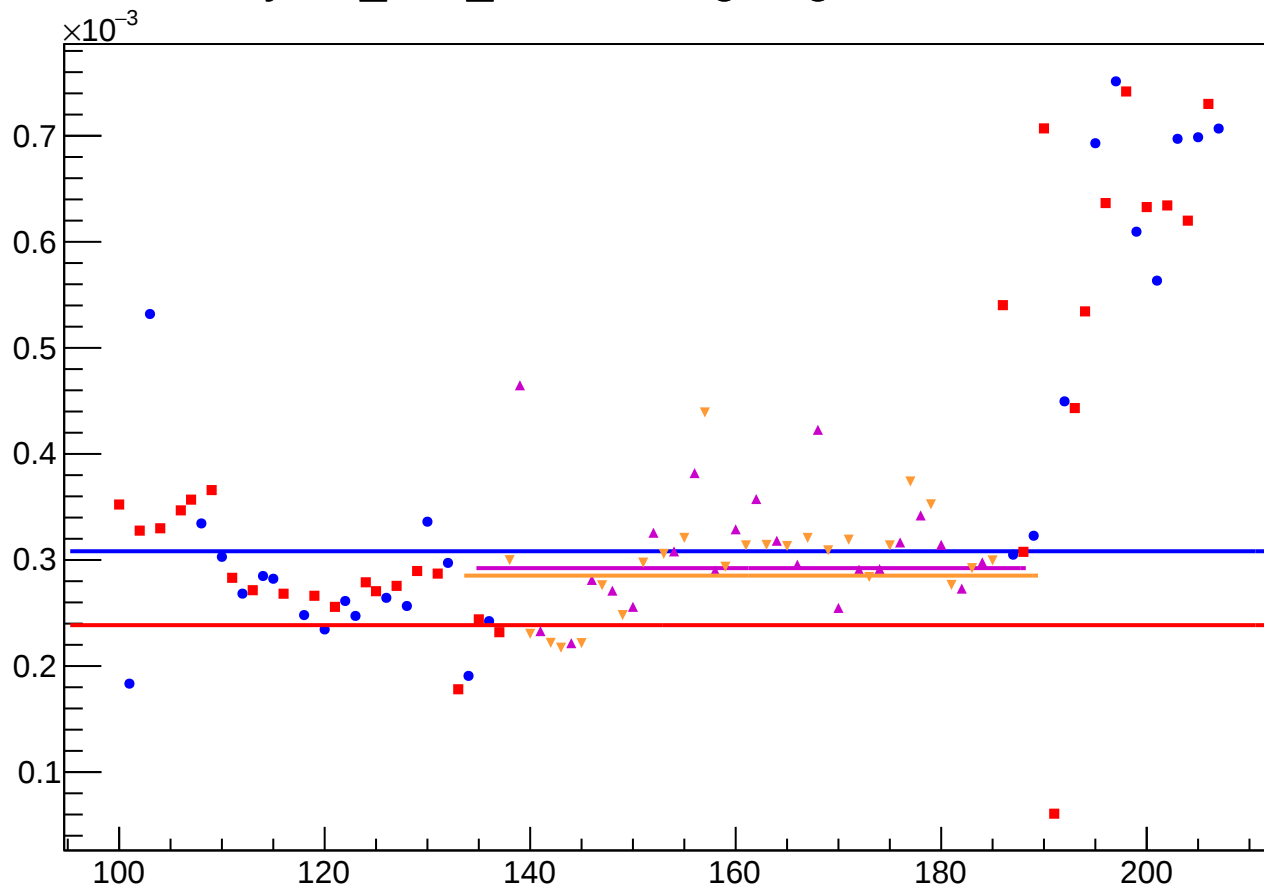
Right: 0.018+/-0.000 χ^2/NDF : 40015321669.2/57

In: 0.025+/-0.000 χ^2/NDF : 6875891125.3/49

Out: 0.021+/-0.000 χ^2/NDF : 45073276048.0/55

All: 0.023+/-0.000 χ^2/NDF : 54807317624.6/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4474298.1/26

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8939526.7/30

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

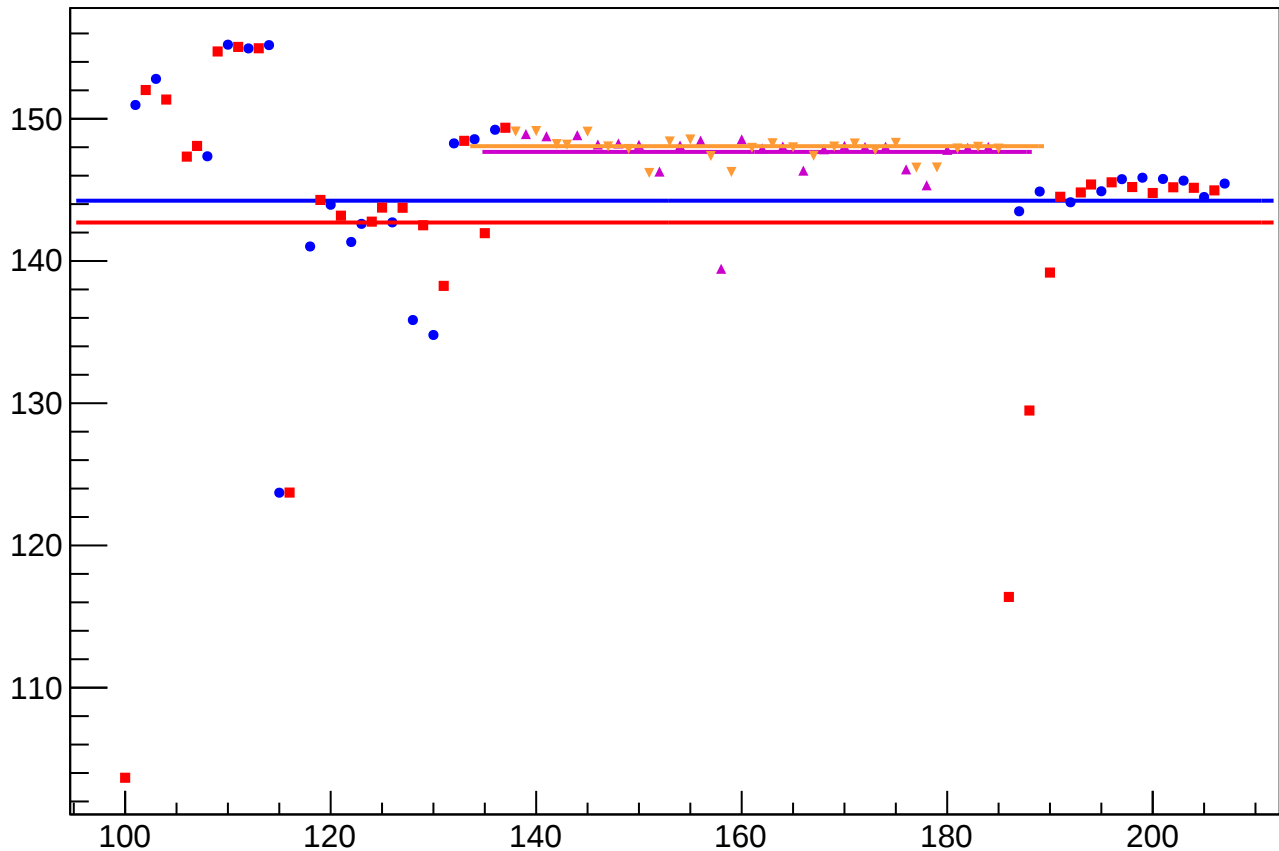
Right: 0.000+/-0.000 χ^2/NDF : 14059009.2/57

In: 0.000+/-0.000 χ^2/NDF :5408213.4/49

Out: 0.000+/-0.000 χ^2/NDF :10148682.4/55

All: 0.000+/-0.000 χ^2/NDF : 15937213.0/105

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.240 $\pm$ 0.000 χ^2 /NDF: 3489394489.5/26

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.706 $\pm$ 0.000 χ^2 /NDF: 7407260585.5/30

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

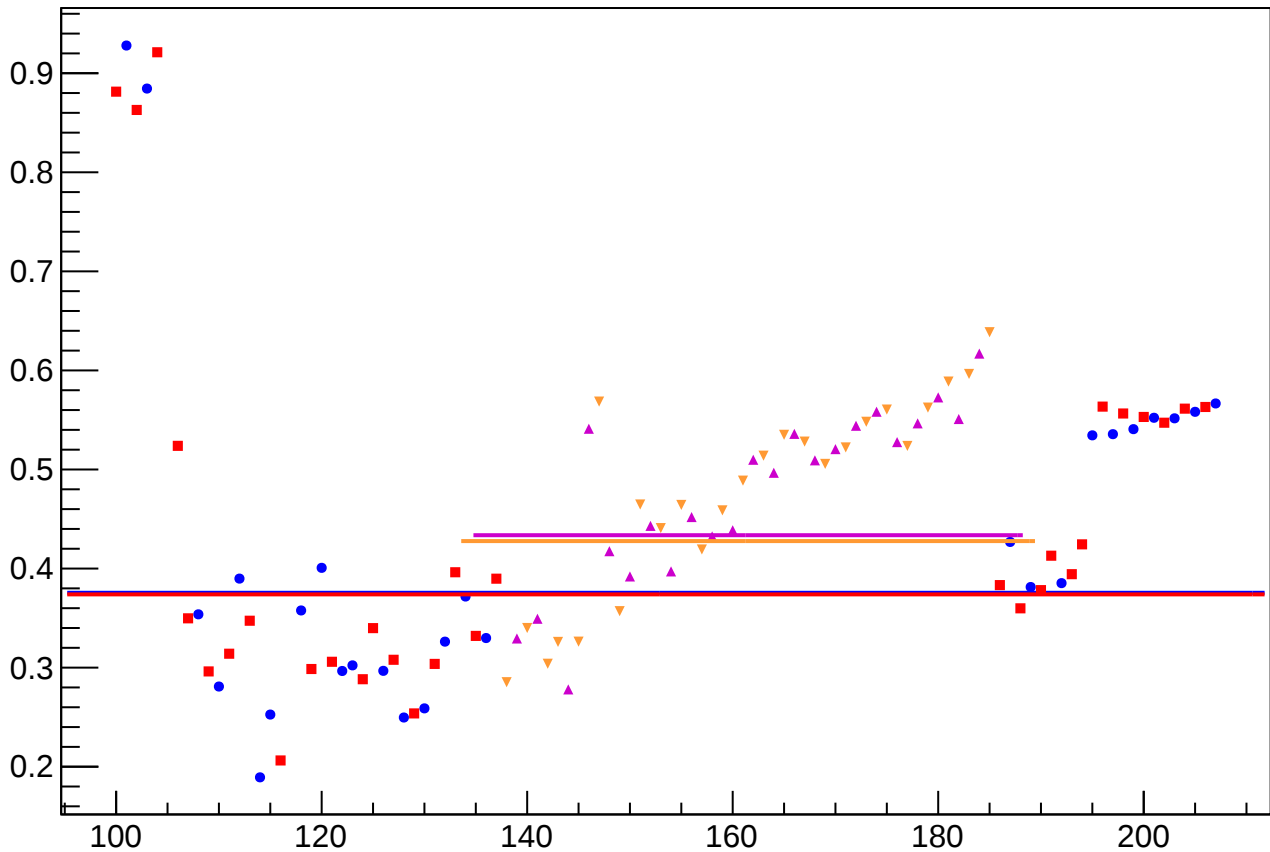
Right: 143.429 $\pm$ 0.000 χ^2 /NDF: 10999497649.2/57

In: 145.993 $\pm$ 0.000 χ^2 /NDF: 4332271758.8/49

Out: 145.389 $\pm$ 0.000 χ^2 /NDF: 8809392348.5/55

All: 145.677 $\pm$ 0.000 χ^2 /NDF: 13173920888.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.376+/-0.000 χ^2/NDF : 2733637.8/26

Left Out: 0.428+/-0.000 χ^2/NDF : 1896808.7/24

Right Out: 0.374+/-0.000 χ^2/NDF : 2536452.8/30

Left In: 0.434+/-0.000 χ^2/NDF : 1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

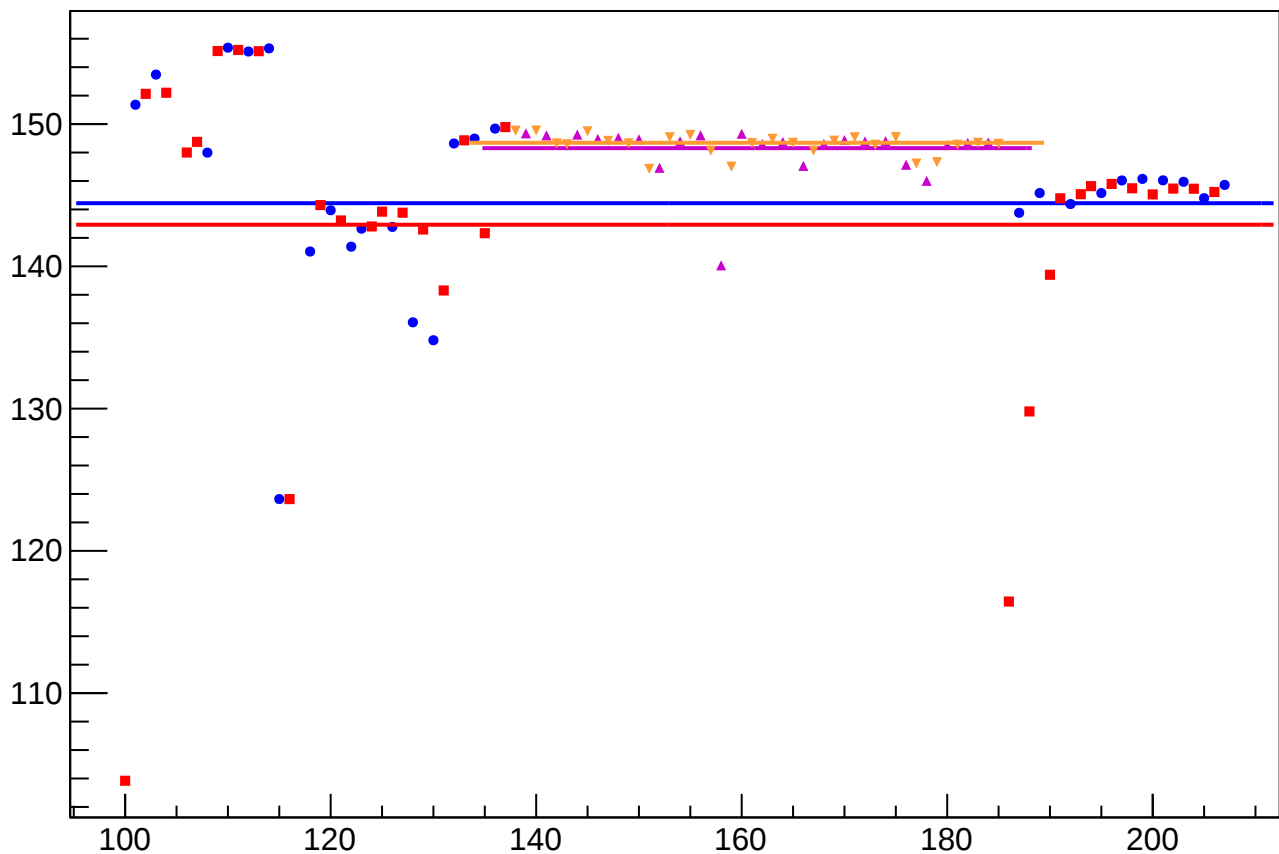
Right: 0.375+/-0.000 χ^2/NDF : 5270319.7/57

In: 0.405+/-0.000 χ^2/NDF : 4515621.3/49

Out: 0.401+/-0.000 χ^2/NDF : 4701895.2/55

All: 0.403+/-0.000 χ^2/NDF : 9220980.6/105

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.438 $\pm$ 0.000 χ^2 /NDF: 3538533130.5/26

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.926 $\pm$ 0.000 χ^2 /NDF: 7355680999.8/30

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

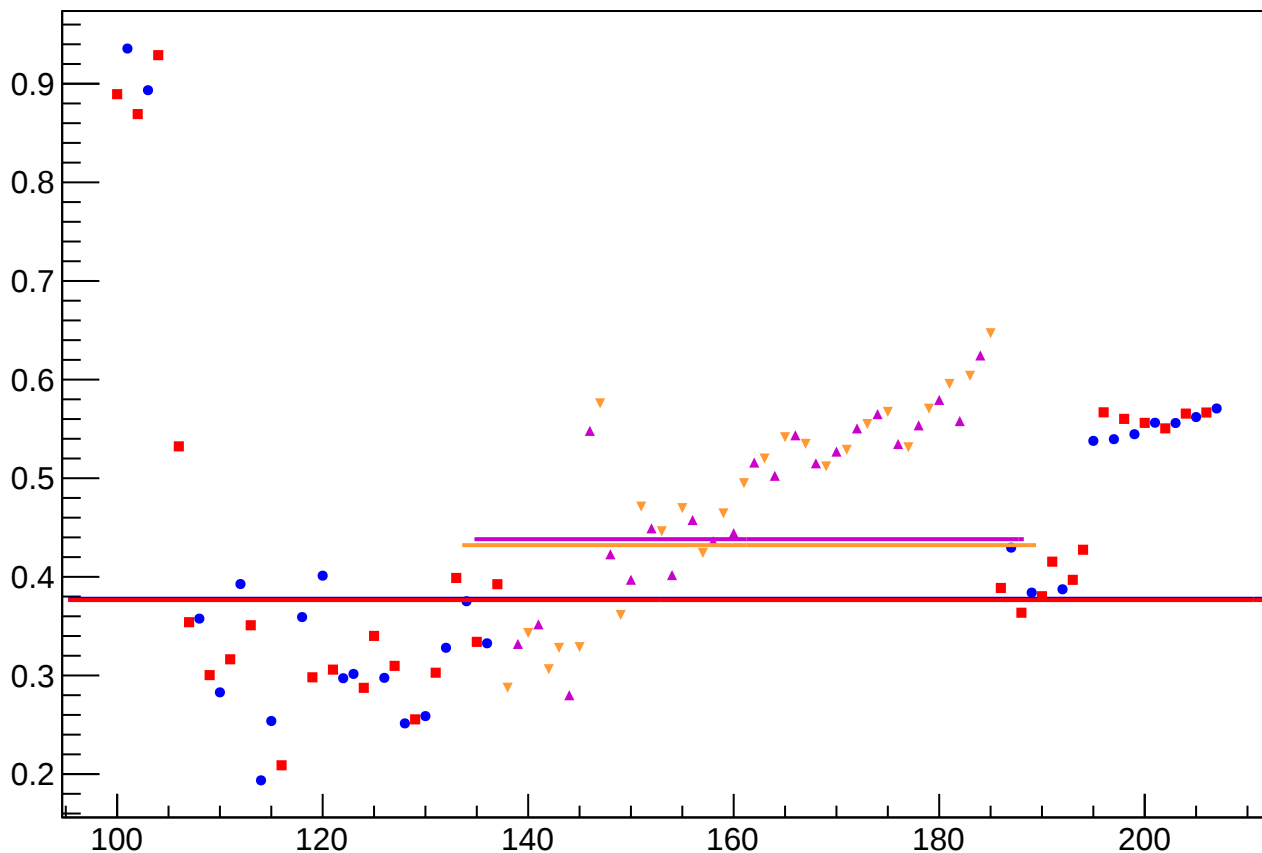
Right: 143.639 $\pm$ 0.000 χ^2 /NDF: 10992999885.2/57

In: 146.406 $\pm$ 0.000 χ^2 /NDF: 4494633461.7/49

Out: 145.794 $\pm$ 0.000 χ^2 /NDF: 8921348378.5/55

All: 146.086 $\pm$ 0.000 χ^2 /NDF: 13448601820.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.378+/-0.000 χ^2/NDF : 2741989.1/26

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.376+/-0.000 χ^2/NDF : 2540147.9/30

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

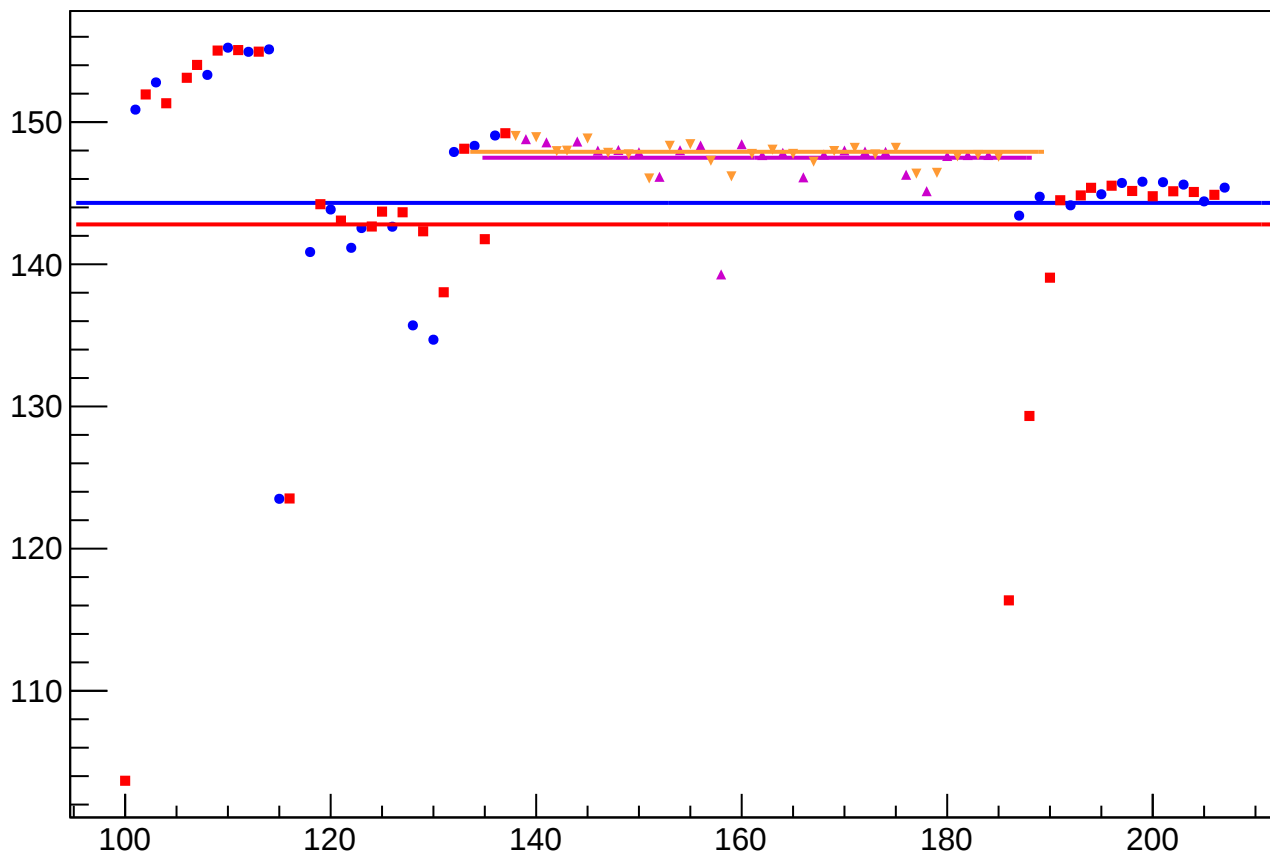
Right: 0.377+/-0.000 χ^2/NDF : 5282298.1/57

In: 0.409+/-0.000 χ^2/NDF :4567474.3/49

Out: 0.404+/-0.000 χ^2/NDF :4752245.3/55

All: 0.406+/-0.000 χ^2/NDF : 9323032.2/105

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.318 $\pm$ 0.000 χ^2 /NDF: 3695659893.8/26

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.804 $\pm$ 0.000 χ^2 /NDF: 7784178641.4/30

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

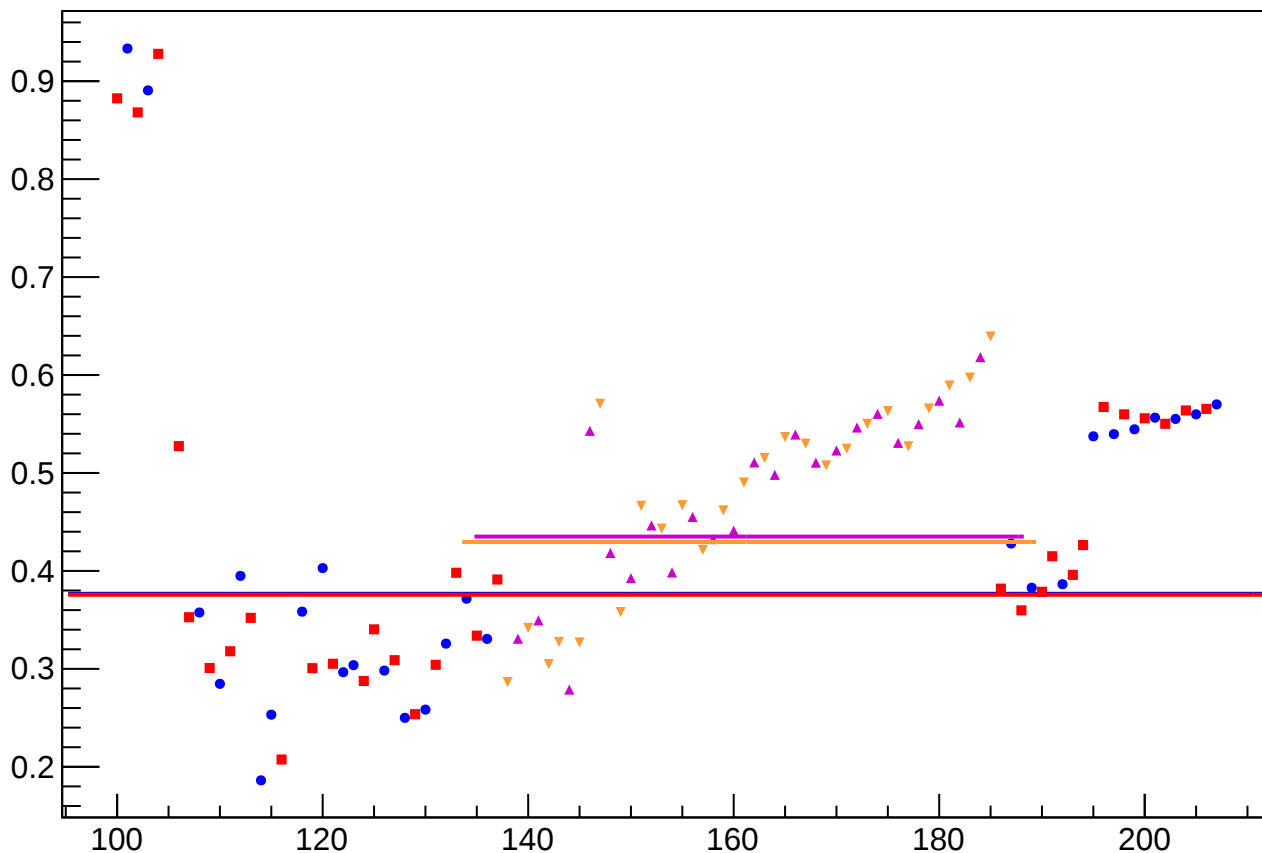
Right: 143.518 $\pm$ 0.000 χ^2 /NDF: 11579280189.1/57

In: 145.941 $\pm$ 0.000 χ^2 /NDF: 4463018723.5/49

Out: 145.358 $\pm$ 0.000 χ^2 /NDF: 9048465091.8/55

All: 145.636 $\pm$ 0.000 χ^2 /NDF: 13541355020.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.377 $\pm$ 0.000 χ^2 /NDF: 2766418.2/26

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2540192.0/30

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

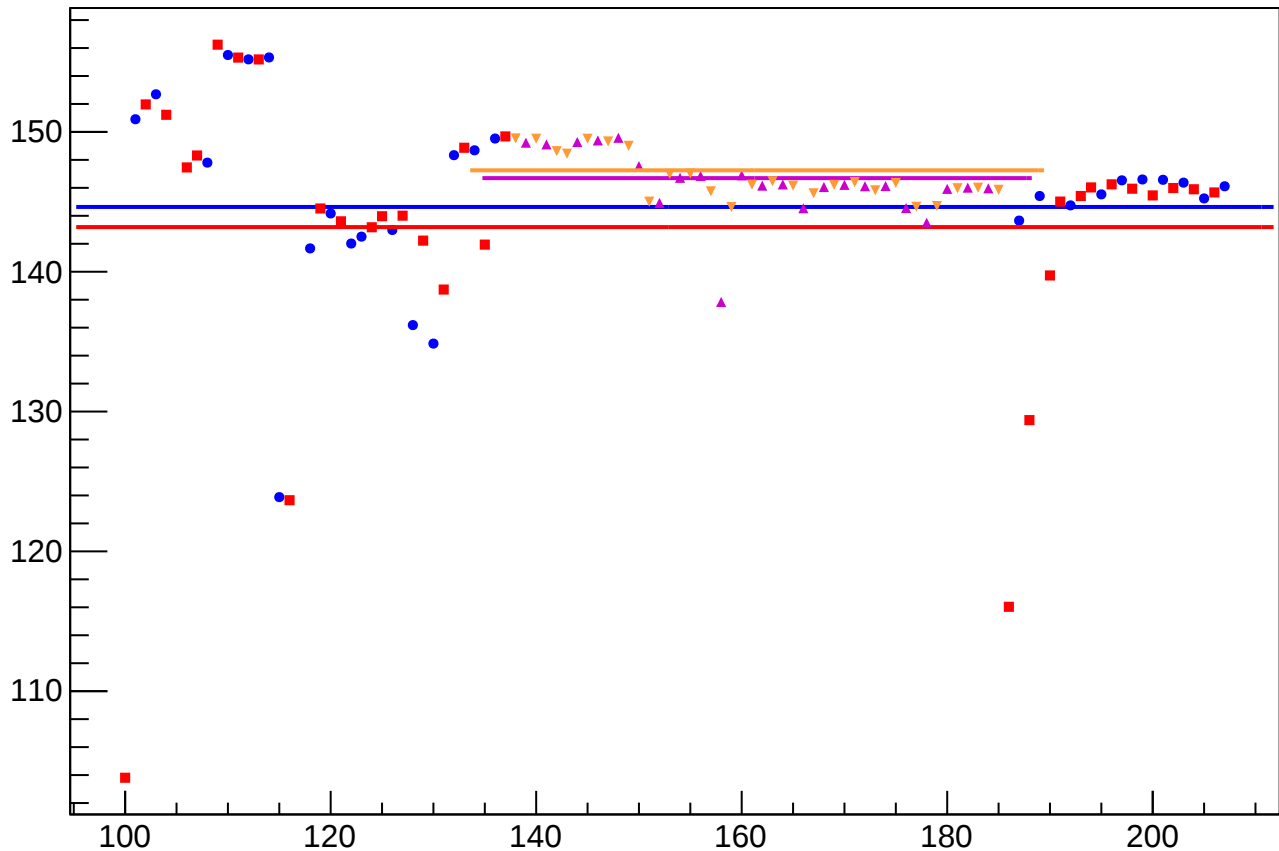
Right: 0.376 $\pm$ 0.000 χ^2 /NDF: 5306696.2/57

In: 0.407 $\pm$ 0.000 χ^2 /NDF:4555615.8/49

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:4702893.3/55

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 9261200.7/105

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.634 $\pm$ 0.000 χ^2 /NDF: 3222032425.1/26

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.194 $\pm$ 0.000 χ^2 /NDF: 7121492346.4/30

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

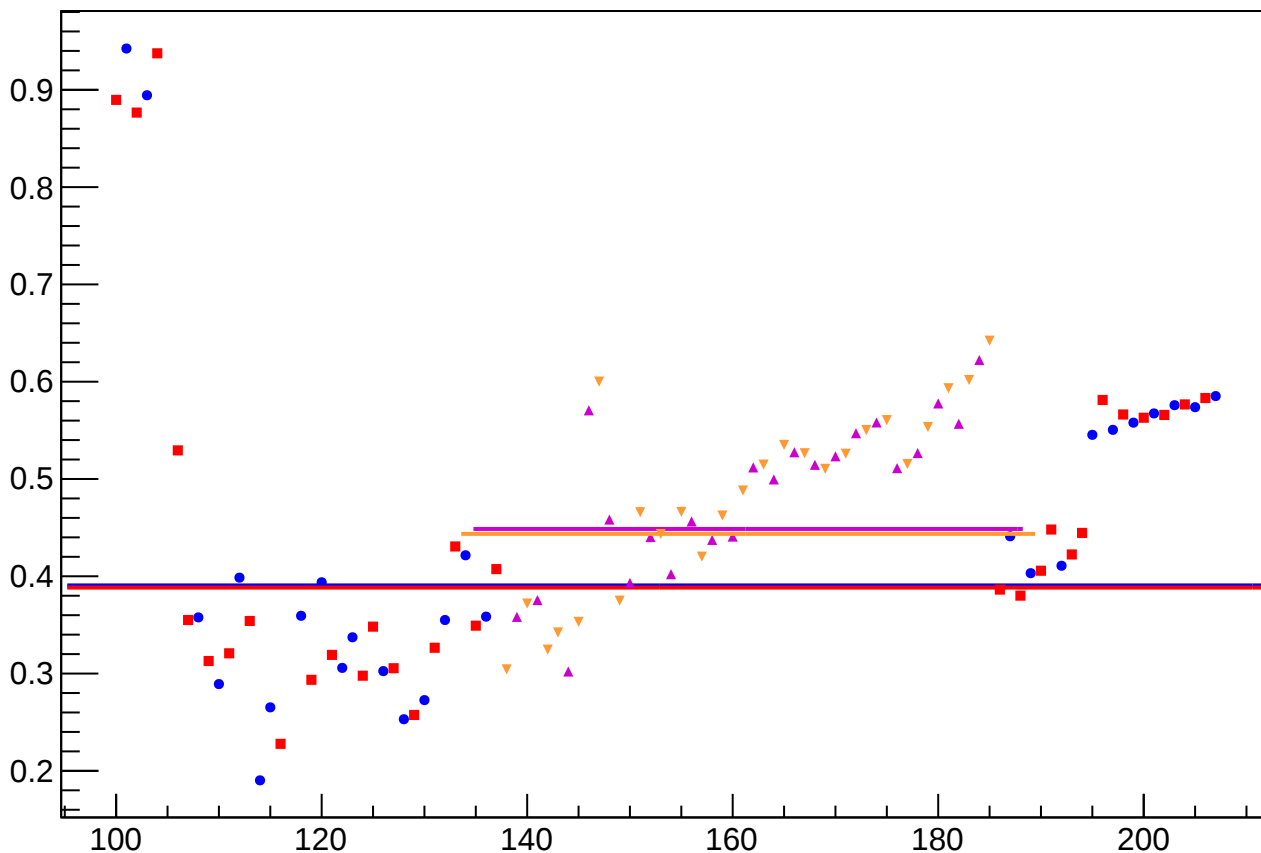
Right: 143.871 $\pm$ 0.000 χ^2 /NDF: 10427338716.5/57

In: 145.699 $\pm$ 0.000 χ^2 /NDF: 3947558001.7/49

Out: 145.238 $\pm$ 0.000 χ^2 /NDF: 8096850071.0/55

All: 145.458 $\pm$ 0.000 χ^2 /NDF: 12061931026.0/106

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.391+/-0.000 χ^2/NDF : 2696432.0/26

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.388+/-0.000 χ^2/NDF : 2480868.3/30

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

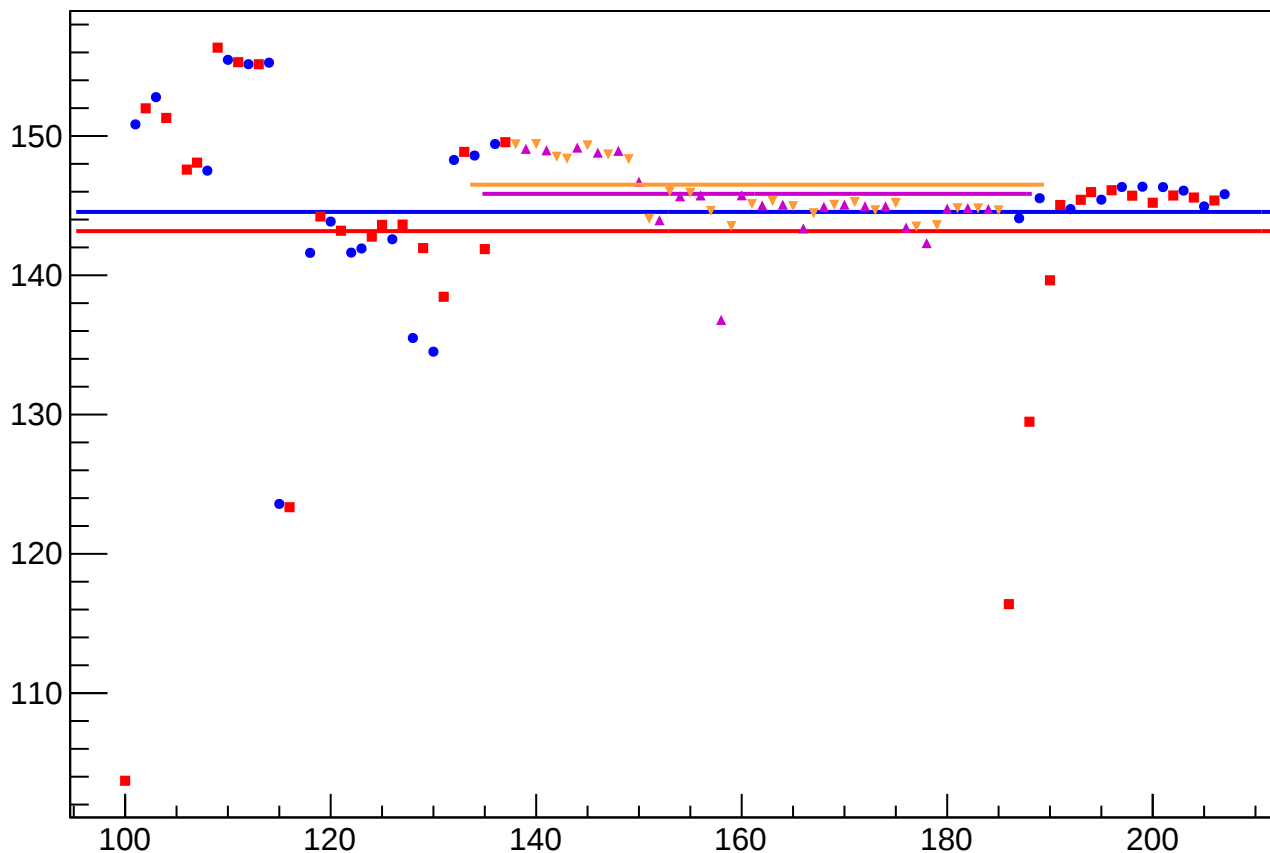
Right: 0.389+/-0.000 χ^2/NDF : 5177697.6/57

In: 0.421+/-0.000 χ^2/NDF :4094757.5/49

Out: 0.416+/-0.000 χ^2/NDF :4227867.5/55

All: 0.418+/-0.000 χ^2/NDF : 8325841.3/105

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.548 $\pm$ 0.000 χ^2 /NDF: 3331893730.7/26

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.171 $\pm$ 0.000 χ^2 /NDF: 7075195614.5/30

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

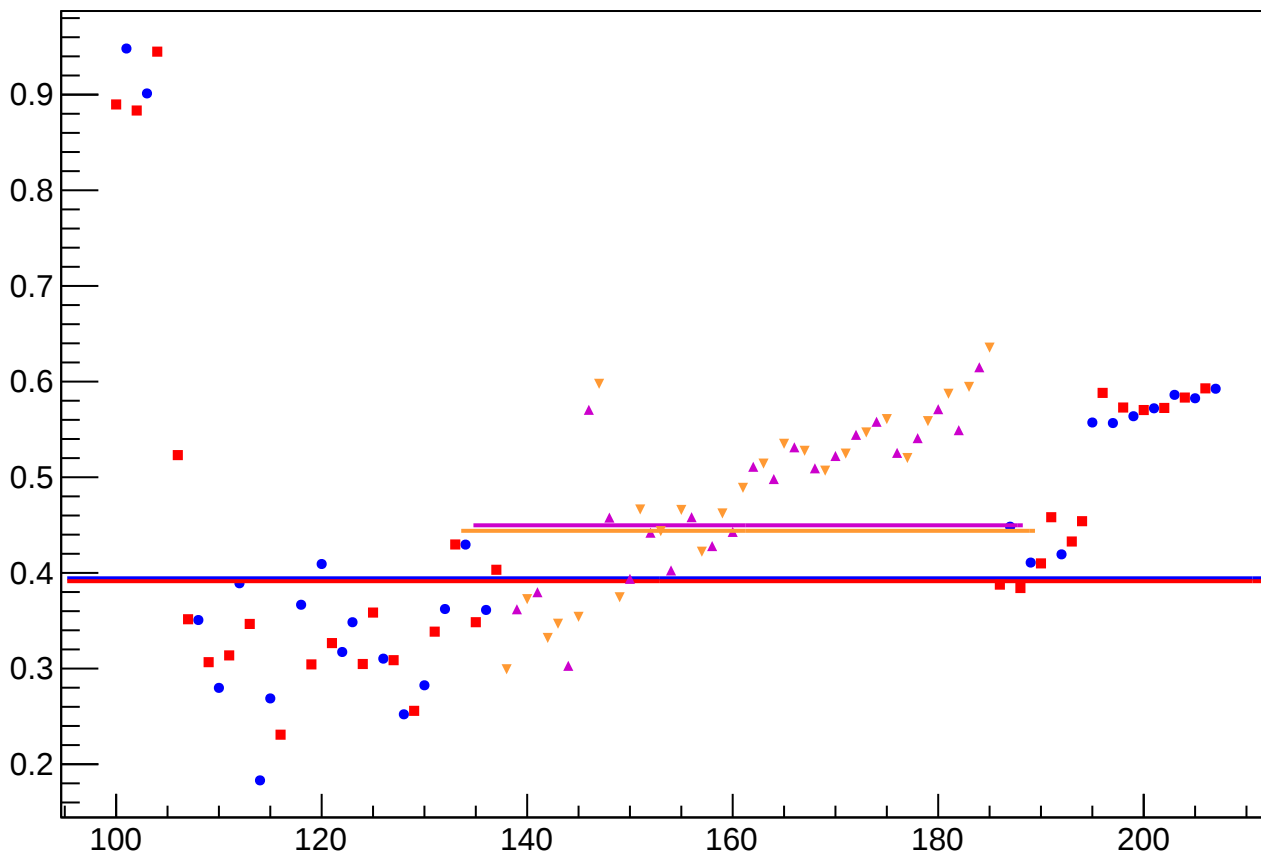
Right: 143.817 $\pm$ 0.000 χ^2 /NDF: 10482082540.4/57

In: 145.225 $\pm$ 0.000 χ^2 /NDF: 4092206858.5/49

Out: 144.863 $\pm$ 0.000 χ^2 /NDF: 7952427922.2/55

All: 145.036 $\pm$ 0.000 χ^2 /NDF: 12055289925.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.394 $\pm$ 0.000 χ^2 /NDF: 2744215.3/26

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.391 $\pm$ 0.000 χ^2 /NDF: 2511833.9/30

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

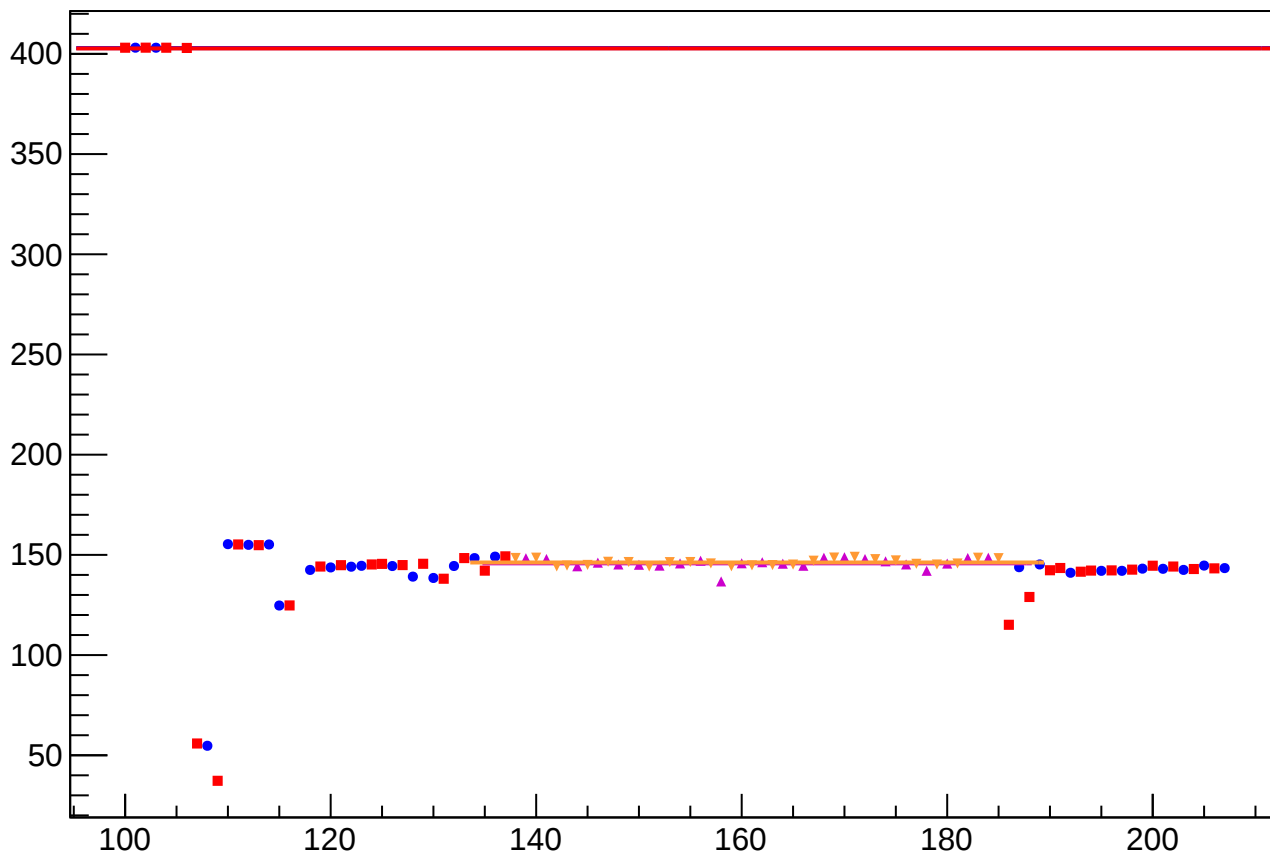
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 5256764.8/57

In: 0.423 $\pm$ 0.000 χ^2 /NDF:4088307.6/49

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4212432.1/55

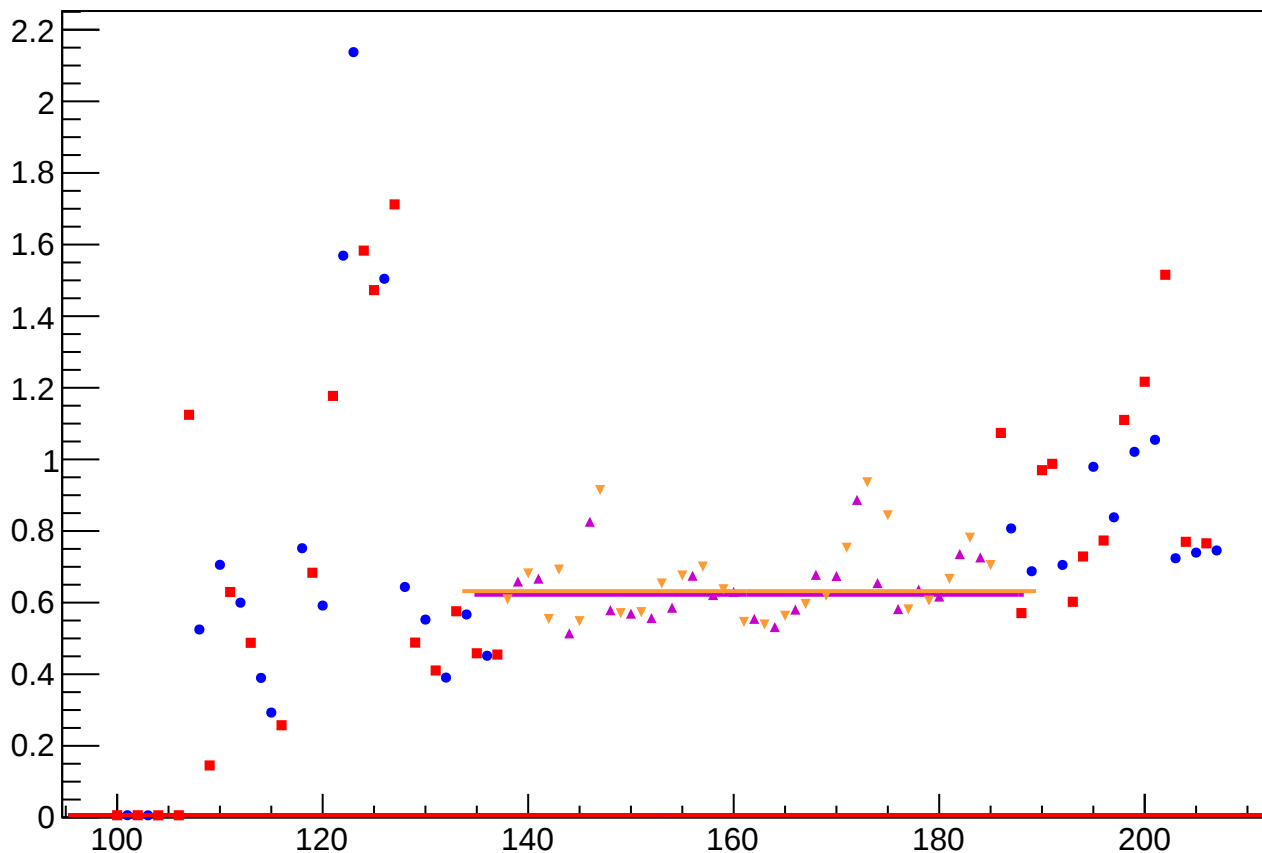
All: 0.421 $\pm$ 0.000 χ^2 /NDF: 8305086.5/105

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.884 $\pm$ 0.000 χ^2 /NDF: 1686204303549.6/26
 Left Out: 146.205 $\pm$ 0.000 χ^2 /NDF: 86658381.3/24
 Right Out: 402.718 $\pm$ 0.000 χ^2 /NDF: 3853461916413.9/30
 Left In: 145.773 $\pm$ 0.000 χ^2 /NDF: 207332354.9/22
 Left: 145.990 $\pm$ 0.000 χ^2 /NDF: 297342055.1/47
 Right: 402.796 $\pm$ 0.000 χ^2 /NDF: 5540124456422.7/47
 In: 402.591 $\pm$ 0.000 χ^2 /NDF: 4034902527996.2/49
 Out: 402.456 $\pm$ 0.000 χ^2 /NDF: 6221354260466.3/50
 All: 402.520 $\pm$ 0.000 χ^2 /NDF: 102565585407.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 20287503.3/26

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 22343439.7/30

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

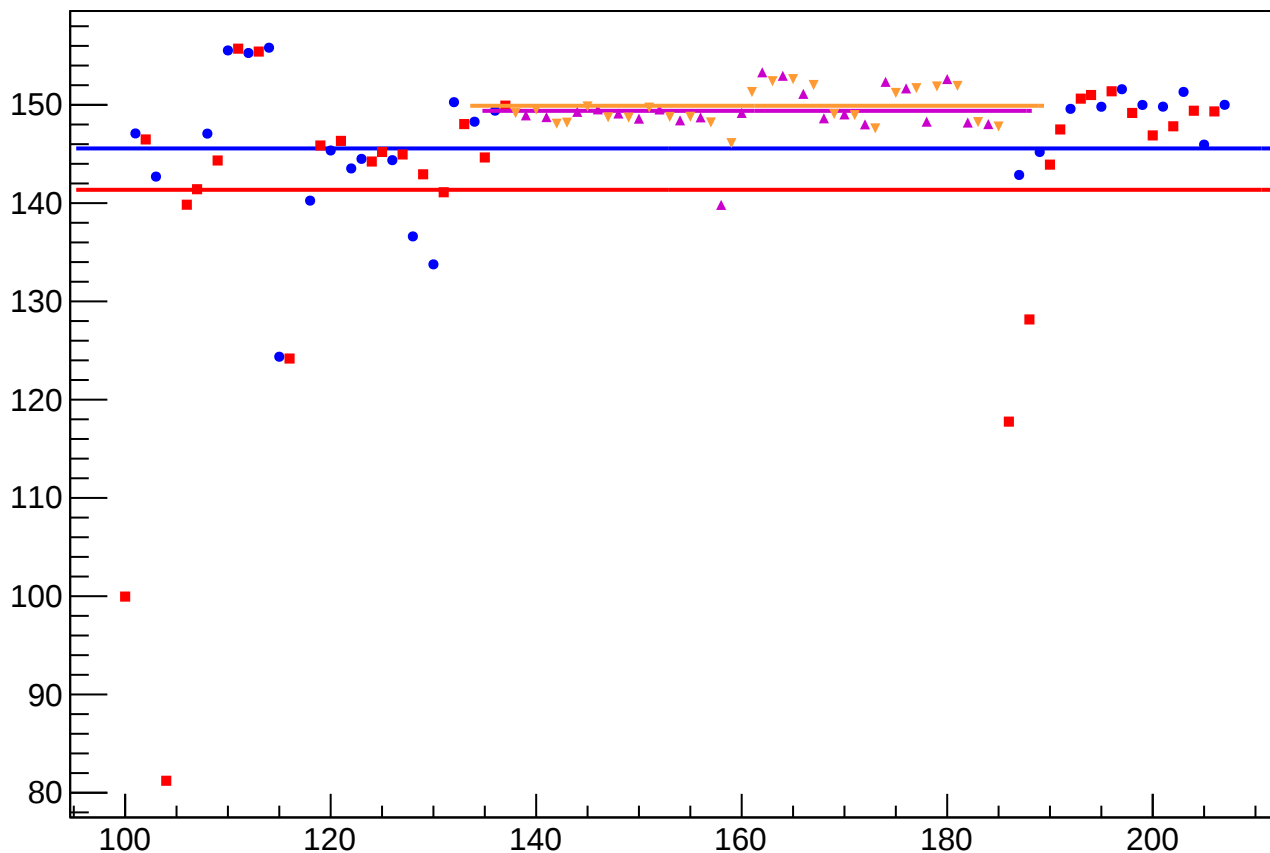
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 42630943.1/57

In: 0.007 $\pm$ 0.000 χ^2 /NDF:47598708.9/49

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:51121094.2/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 98719945.0/105

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.565 $\pm$ 0.000 χ^2/NDF : 1329515480.5/26

Left Out: 149.906 $\pm$ 0.000 χ^2/NDF : 163261802.4/24

Right Out: 141.355 $\pm$ 0.000 χ^2/NDF : 3247439380.4/30

Left In: 149.391 $\pm$ 0.000 χ^2/NDF : 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2/NDF : 606930259.3/47

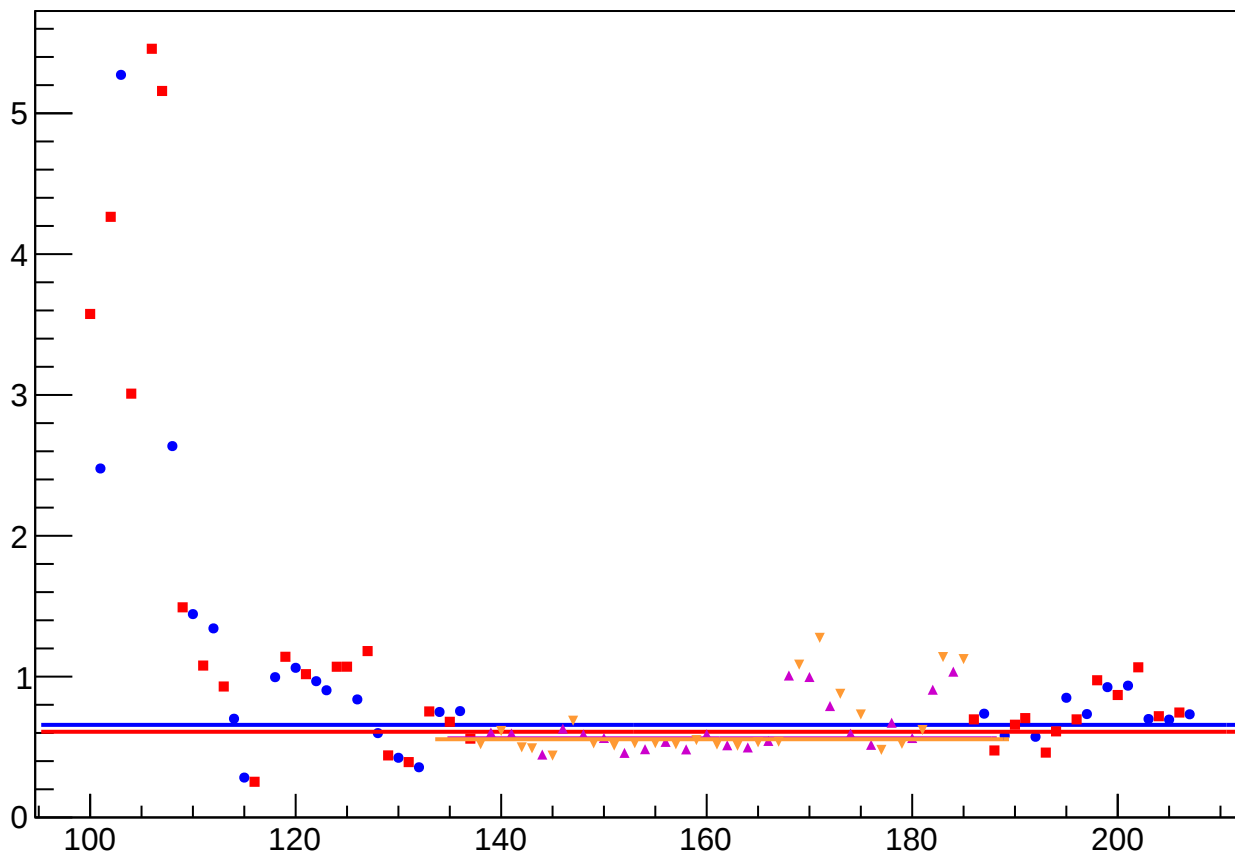
Right: 143.240 $\pm$ 0.000 χ^2/NDF : 4786374814.9/57

In: 148.204 $\pm$ 0.000 χ^2/NDF : 1982703105.0/49

Out: 146.987 $\pm$ 0.000 χ^2/NDF : 4681713069.7/55

All: 147.561 $\pm$ 0.000 χ^2/NDF : 6718411646.4

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.657 $\pm$ 0.000 χ^2 /NDF: 3963176.3/26

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.608 $\pm$ 0.000 χ^2 /NDF: 5545697.2/30

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

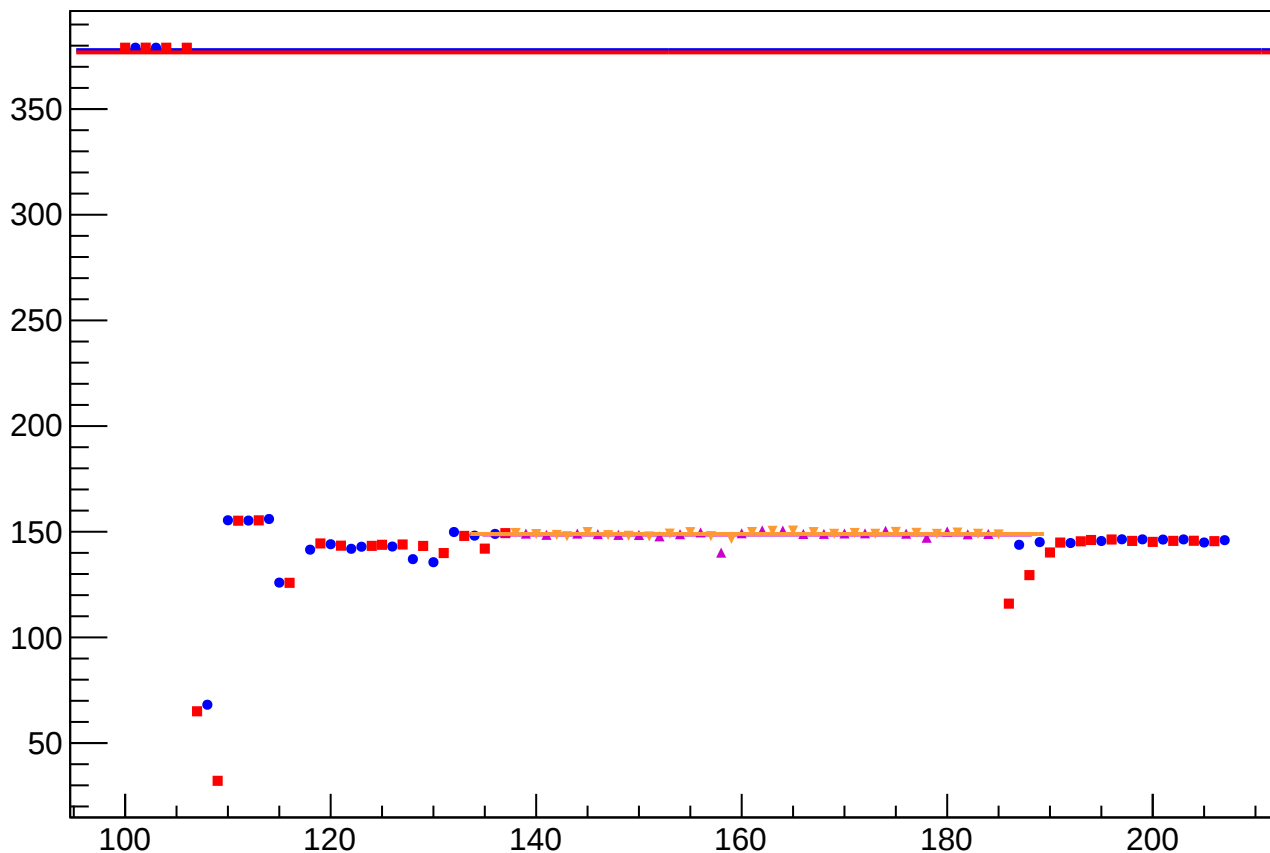
Right: 0.630 $\pm$ 0.000 χ^2 /NDF: 9565508.9/57

In: 0.592 $\pm$ 0.000 χ^2 /NDF:5542593.0/49

Out: 0.574 $\pm$ 0.000 χ^2 /NDF:7416946.3/55

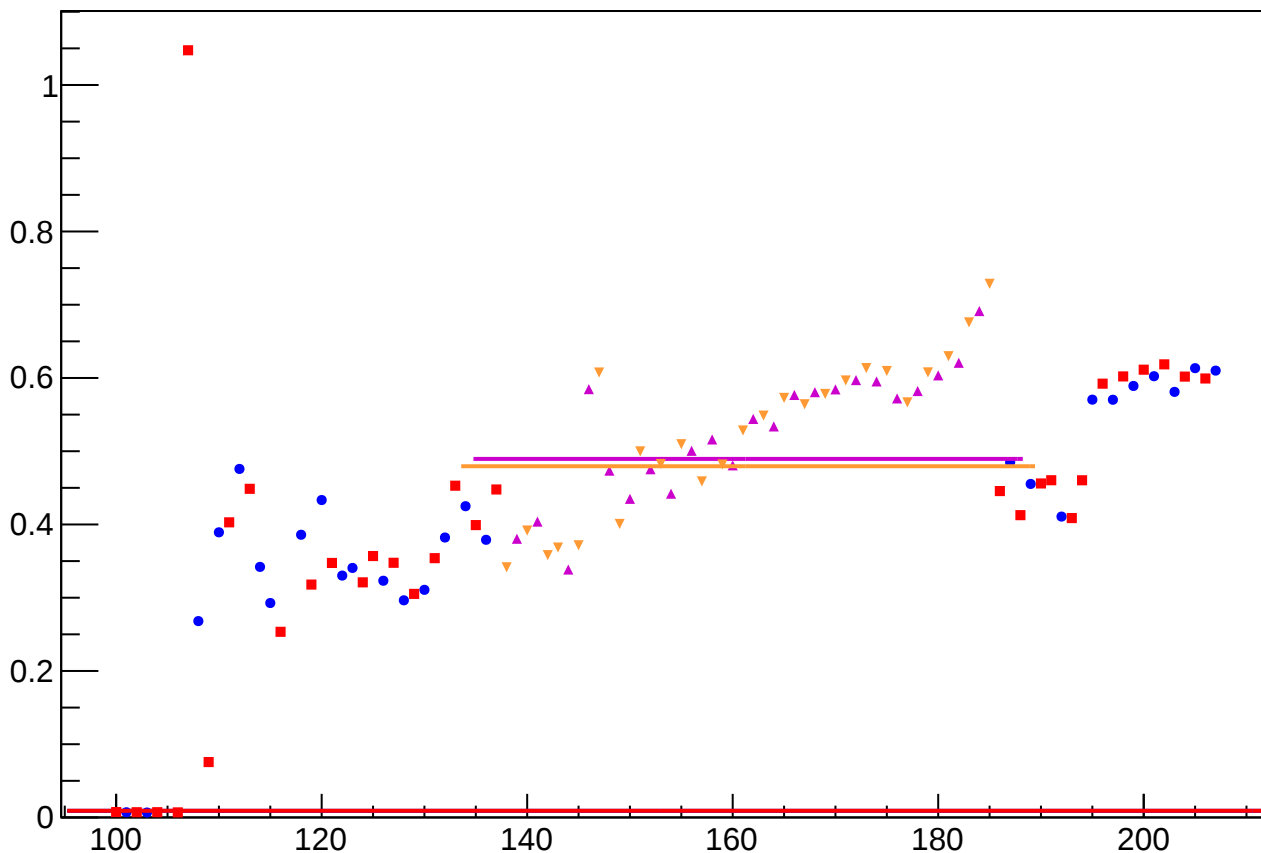
All: 0.582 $\pm$ 0.000 χ^2 /NDF: 12983505.2/105

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.883+/-0.000	χ^2/NDF : 3745617518512.0/26	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.318+/-0.000	χ^2/NDF : 13708521865099.8
Right Out: 376.823+/-0.000	χ^2/NDF : 9954917498976.6/30	In: 376.705+/-0.000	χ^2/NDF : 7347231250515.7/49
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.707+/-0.000	χ^2/NDF : 13823264274042.7
		All: 376.173+/-0.000	χ^2/NDF : 211776101299.8

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 23044579.9/26

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 24518816.4/30

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

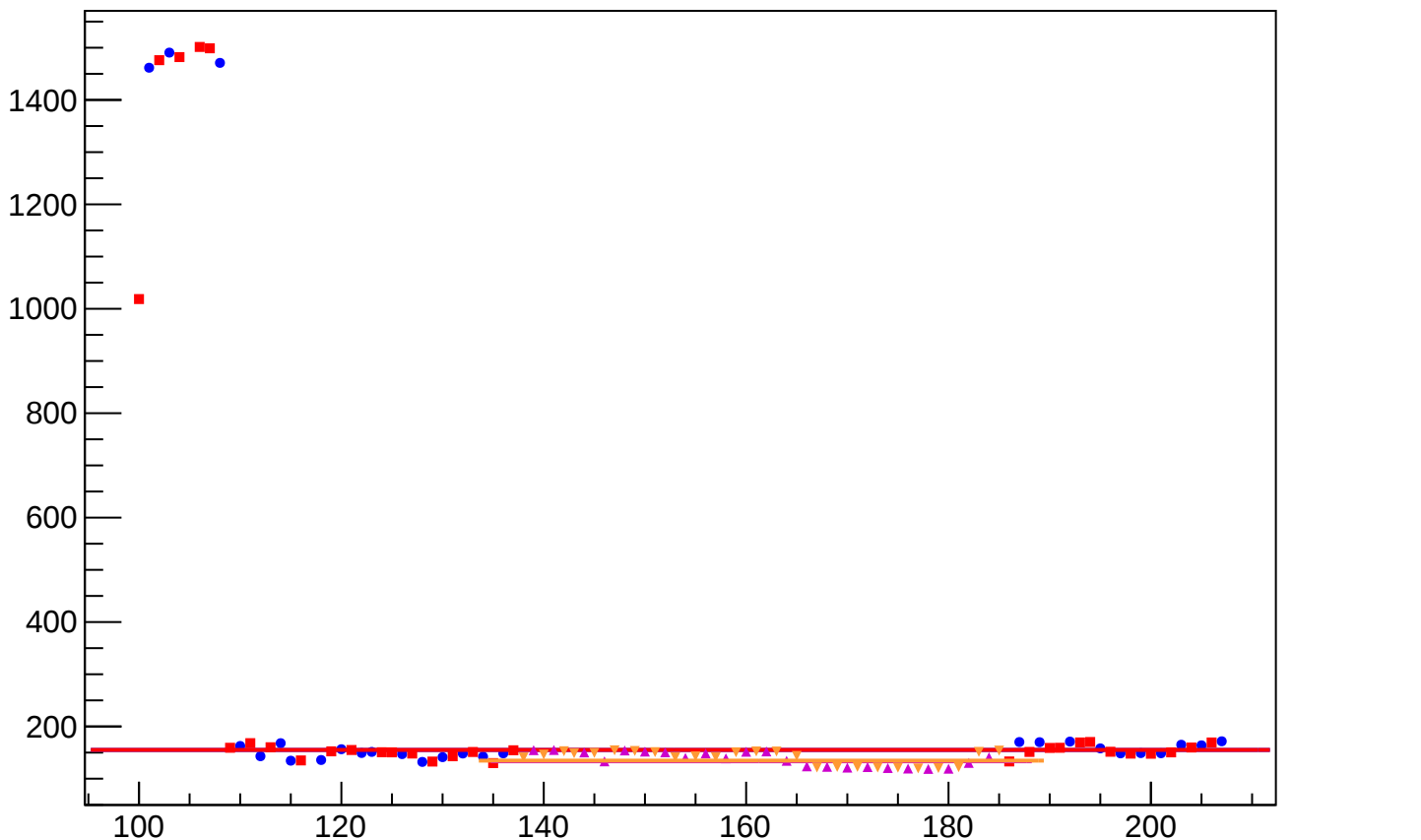
Right: 0.009+/-0.000 χ^2/NDF : 47563484.0/57

In: 0.012+/-0.000 χ^2/NDF :55788265.7/49

Out: 0.011+/-0.000 χ^2/NDF :59001349.6/55

All: 0.011+/-0.000 χ^2/NDF : 114789724.7/105

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.040+/-0.000

χ^2/NDF : 25907861782.2/26

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Right: 155.078+/-0.000

χ^2/NDF : 60904376207.8/57

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

In: 142.174+/-0.000

χ^2/NDF : 34681458099.9/49

Right Out: 155.111+/-0.000

χ^2/NDF : 34996471228.6/30

Out: 143.511+/-0.000

χ^2/NDF : 43733512919.3/55

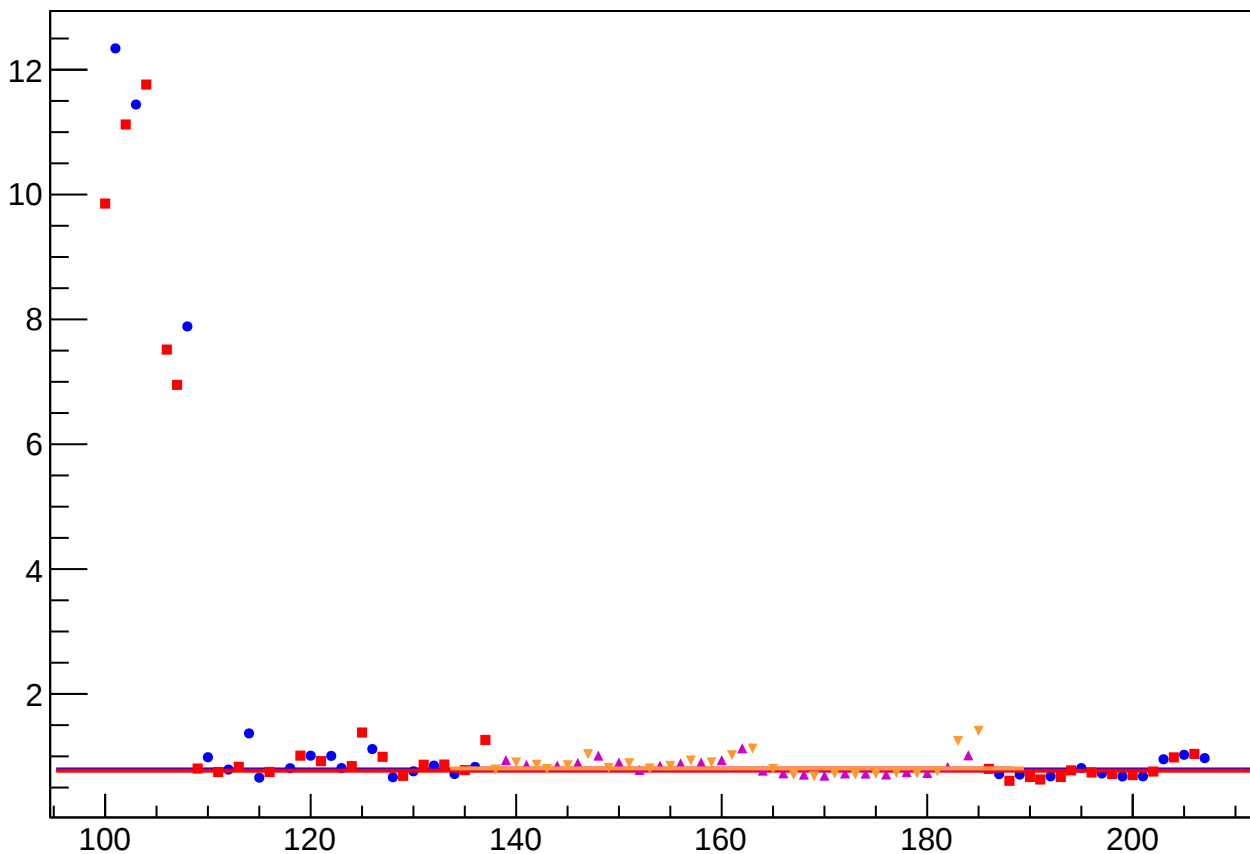
Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

All: 142.869+/-0.000

χ^2/NDF : 78451002384.6/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790 $\pm$ 0.000 χ^2 /NDF: 3011076.1/26

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3299804.1/30

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

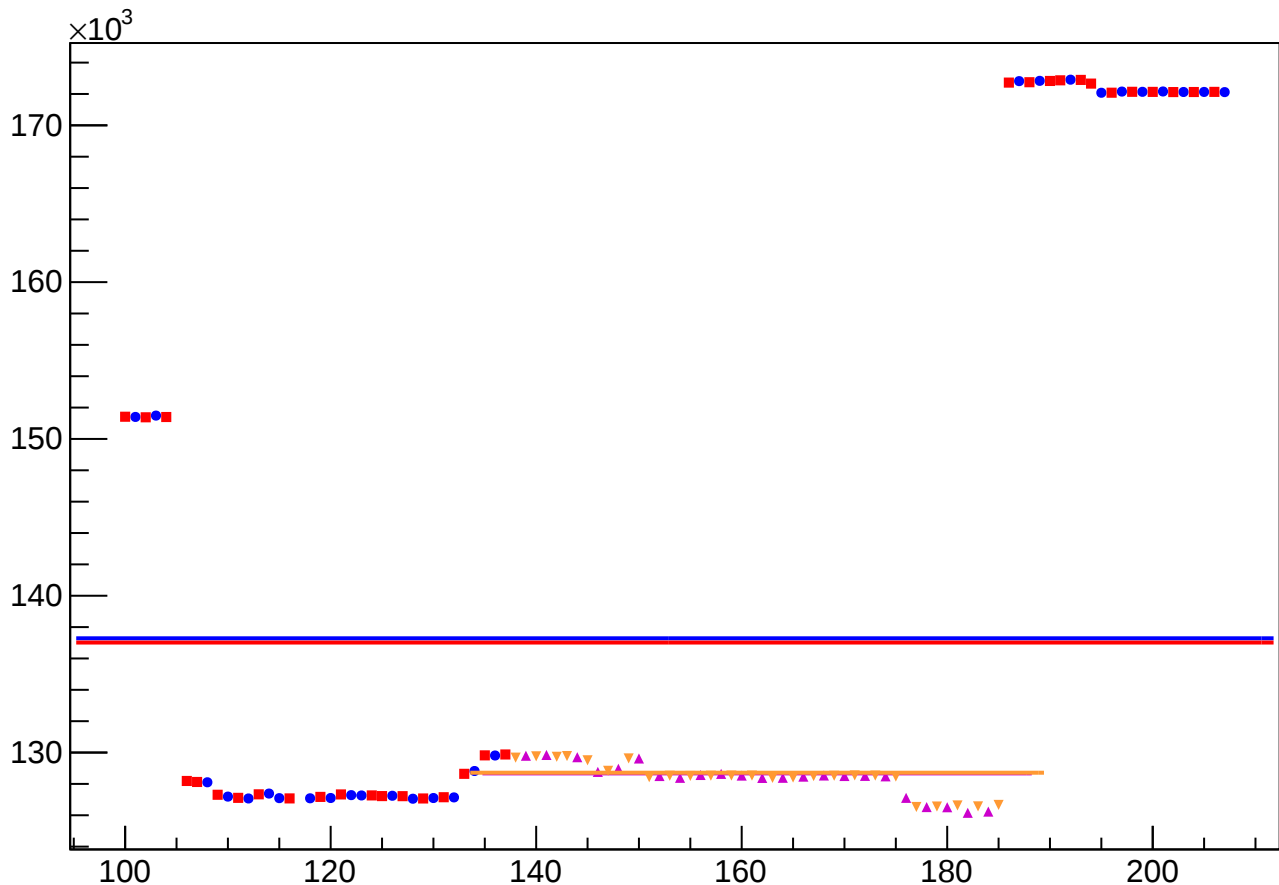
Right: 0.779 $\pm$ 0.000 χ^2 /NDF: 6317089.0/57

In: 0.798 $\pm$ 0.000 χ^2 /NDF:3494904.9/49

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:4030953.3/55

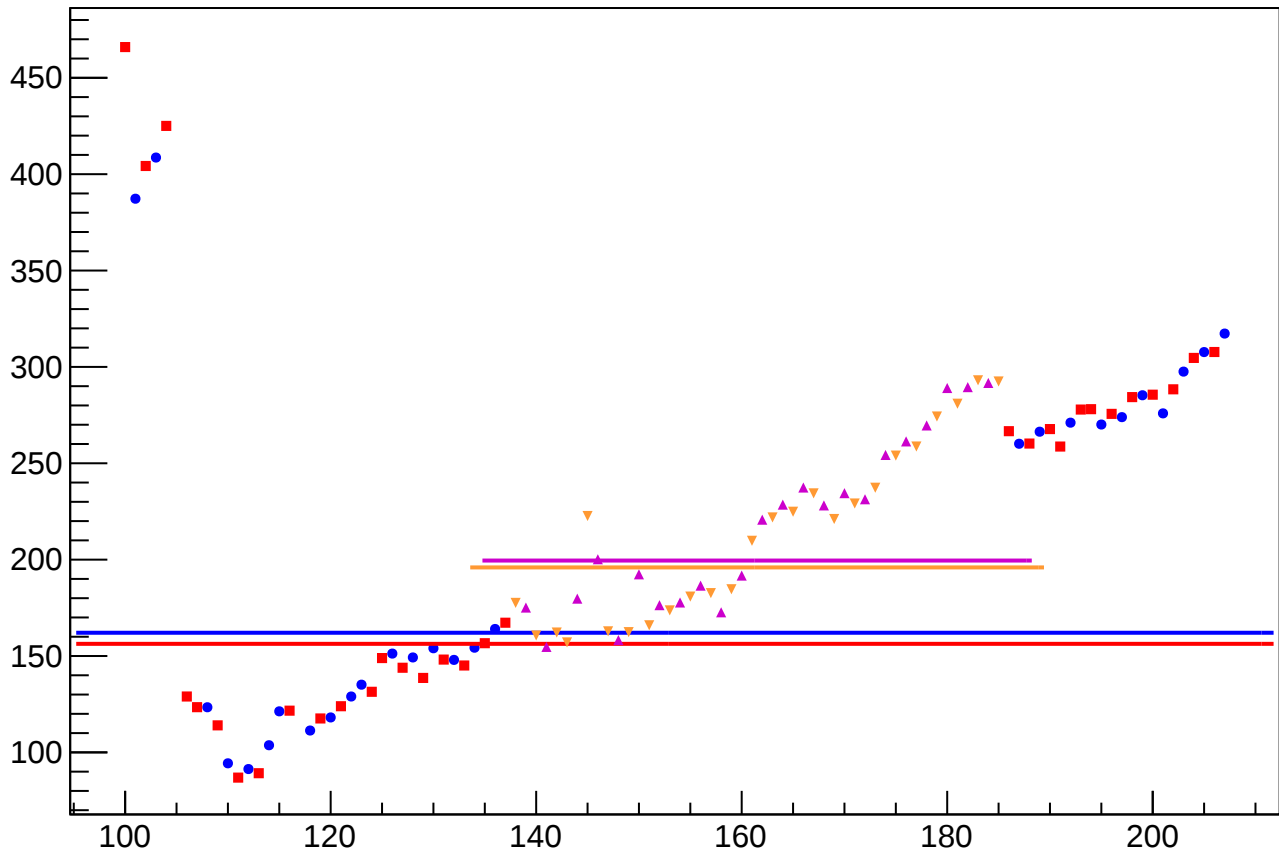
All: 0.795 $\pm$ 0.000 χ^2 /NDF: 7528136.6/105

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 137285.798 $\pm$ 0.049 χ^2/NDF : 141685519421.8/26
 Left Out: 128713.791 $\pm$ 0.047 χ^2/NDF : 348293942.5/24
 Right Out: 137015.579 $\pm$ 0.045 χ^2/NDF : 163078799239.1/30
 Left In: 128670.094 $\pm$ 0.049 χ^2/NDF : 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2/NDF : 683588051.4/47
 Right: 137140.188 $\pm$ 0.033 χ^2/NDF : 304780987180
 In: 132999.919 $\pm$ 0.034 χ^2/NDF : 157663467889.7
 Out: 133019.288 $\pm$ 0.032 χ^2/NDF : 179850390739.
 All: 133010.204 $\pm$ 0.024 χ^2/NDF : 337514026

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 162.067 $\pm$ 0.034 χ^2 /NDF: 4837473.8/26

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 156.315 $\pm$ 0.032 χ^2 /NDF: 5494150.6/30

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

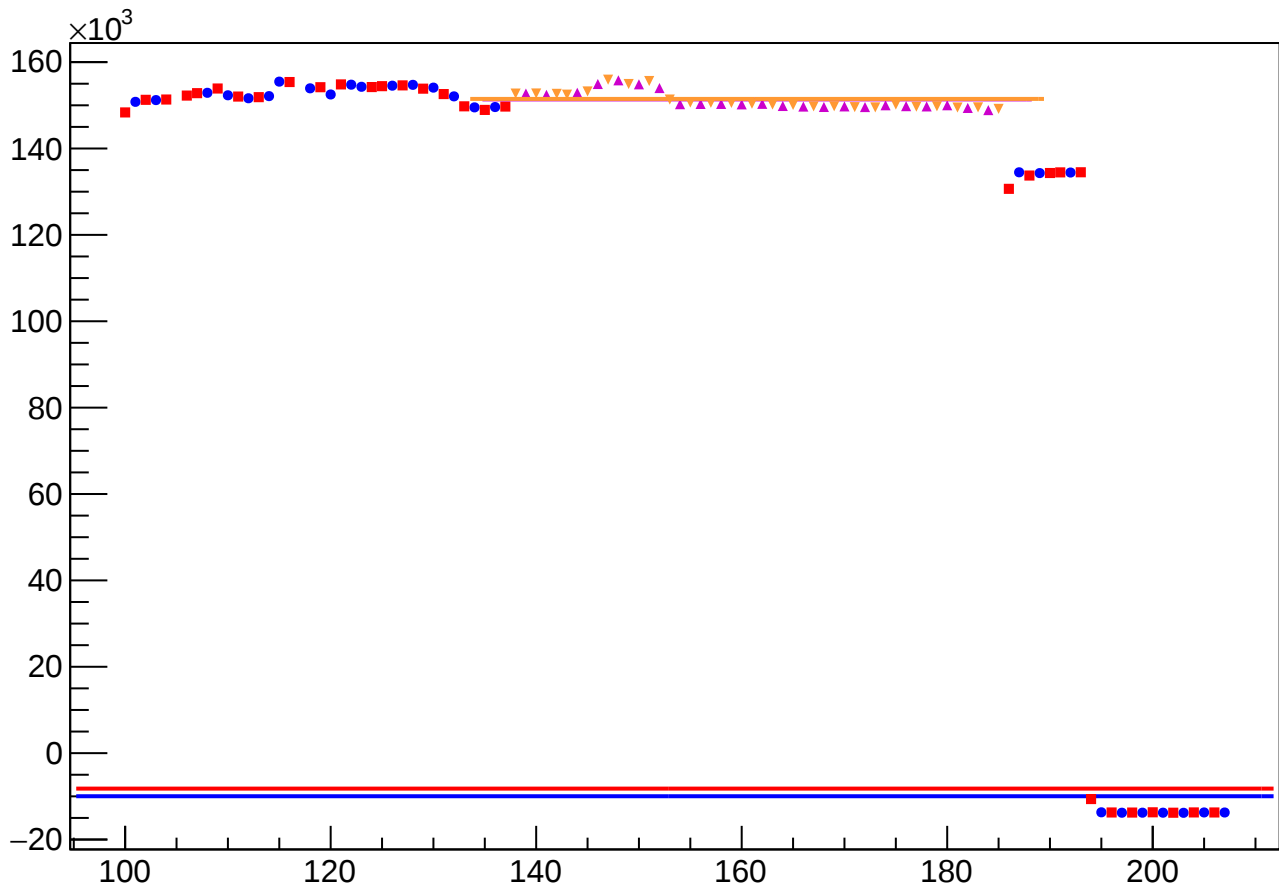
Right: 158.968 $\pm$ 0.023 χ^2 /NDF: 10346731.2/57

In: 180.704 $\pm$ 0.024 χ^2 /NDF:6604366.6/49

Out: 175.401 $\pm$ 0.023 χ^2 /NDF:7559453.5/55

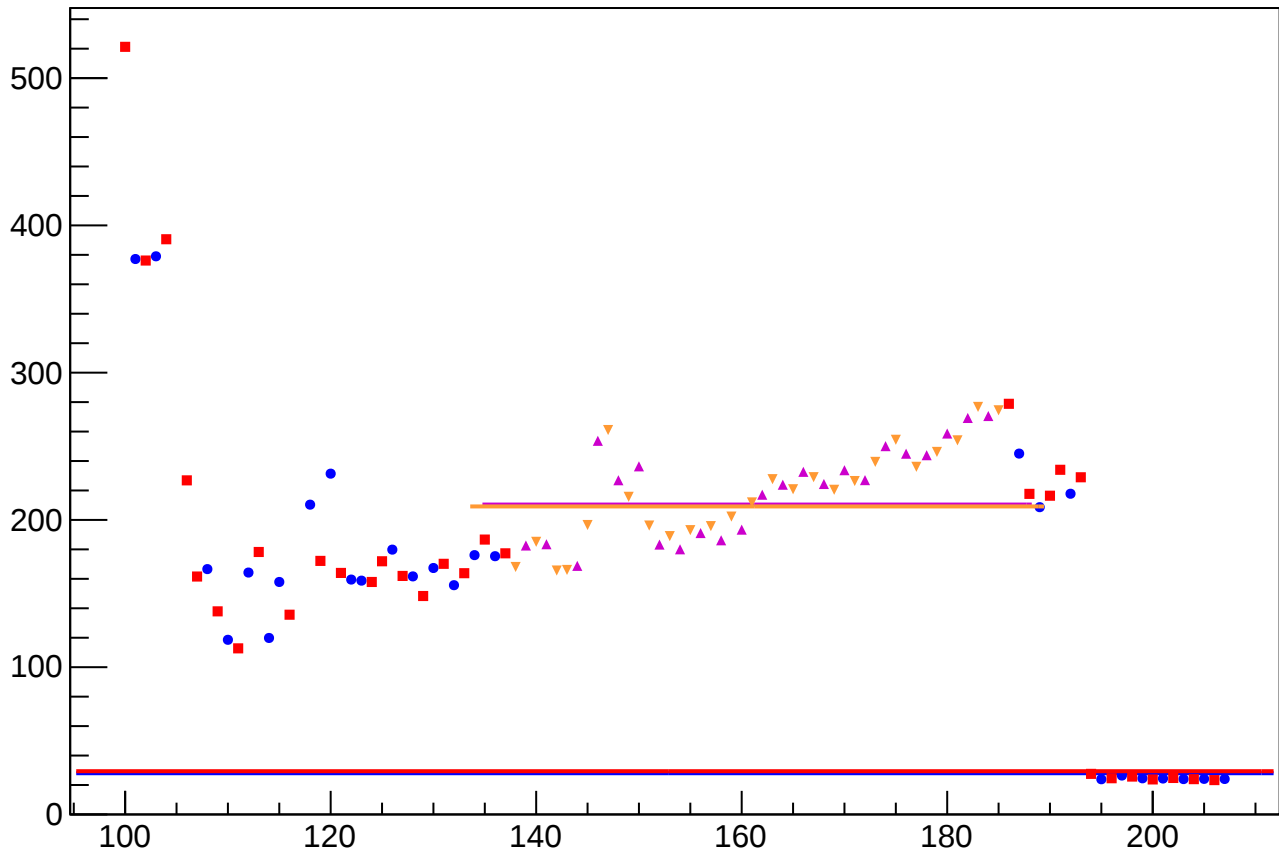
All: 177.888 $\pm$ 0.017 χ^2 /NDF: 14188993.1/100

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -9975.258 $\pm$ 0.010	χ^2/NDF : 5834593375920.9/26	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -9148.249 $\pm$ 0.007	χ^2/NDF : 1298546430371.0/24
Right Out: -8209.051 $\pm$ 0.011	χ^2/NDF : 7136822968950.3/30	In: -3825.458 $\pm$ 0.010	χ^2/NDF : 15378425243152.8/30
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: -859.162 $\pm$ 0.011	χ^2/NDF : 17077963991382.4/22
		All: -2430.419 $\pm$ 0.007	χ^2/NDF : 3249776439.0/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.999 ± 0.007 $\chi^2/\text{NDF}: 11363270.9/26$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 29.373 ± 0.008 $\chi^2/\text{NDF}: 13453965.8/30$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

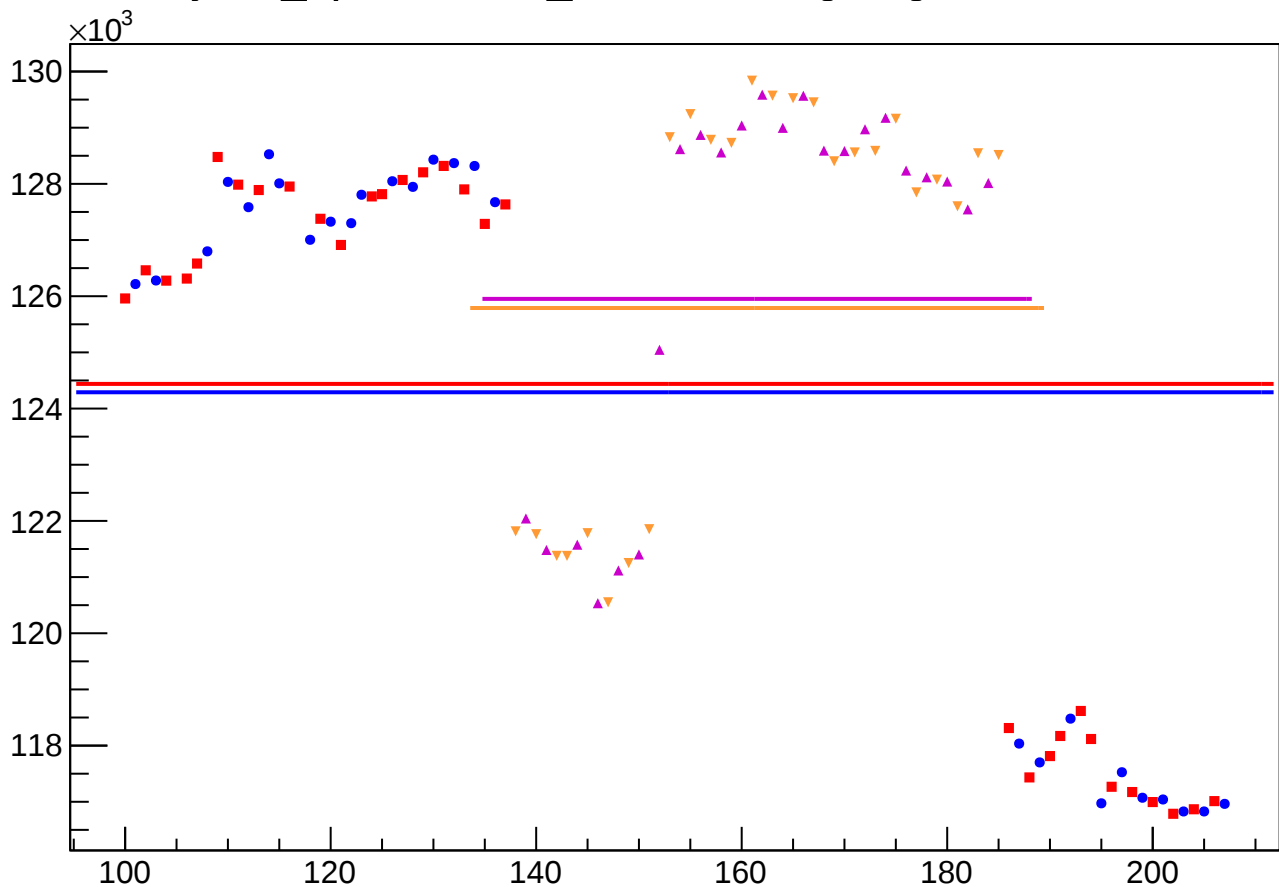
Right: 28.642 ± 0.005 $\chi^2/\text{NDF}: 24834236.7/57$

In: 34.953 ± 0.007 $\chi^2/\text{NDF}: 36448739.6/49$

Out: 37.648 ± 0.008 $\chi^2/\text{NDF}: 39360823.2/55$

All: 36.220 ± 0.005 $\chi^2/\text{NDF}: 75877854.8/105$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124289.966 $\pm$ 0.048

χ^2 /NDF: 10593511845.1/26

Left: 125870.001 $\pm$ 0.031

χ^2 /NDF: 12592819321.6/26

Right: 124369.009 $\pm$ 0.033

χ^2 /NDF: 22093049680.8/26

Left Out: 125790.126 $\pm$ 0.044

χ^2 /NDF: 6744310079.8/24

Right Out: 124438.843 $\pm$ 0.045

χ^2 /NDF: 11494396937.8/30

Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 5841800367.5/22

In: 125178.308 $\pm$ 0.033

χ^2 /NDF: 17080498652.6/30

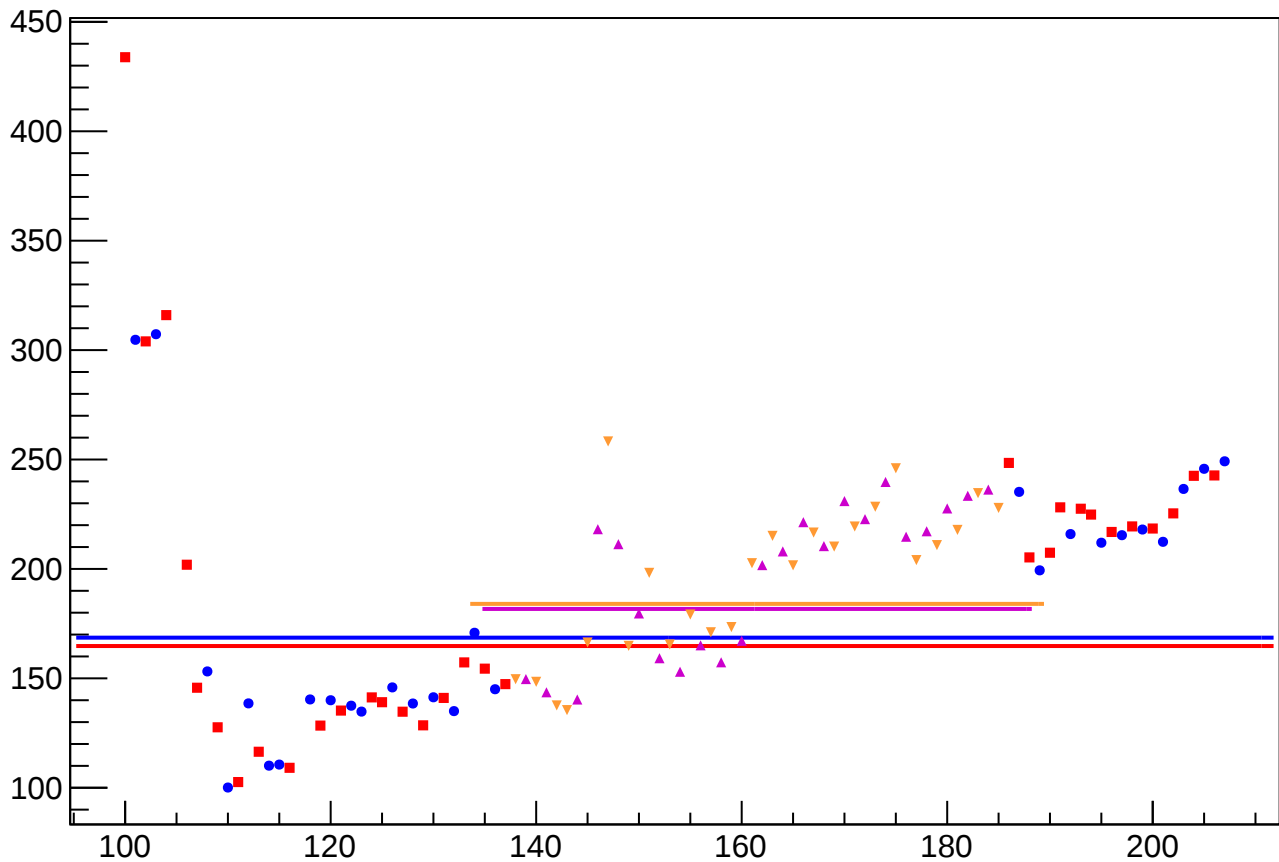
Out: 125129.824 $\pm$ 0.031

χ^2 /NDF: 18700398597.9/30

All: 125153.149 $\pm$ 0.023

χ^2 /NDF: 357820416/30

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 168.593 $\pm$ 0.034 χ^2 /NDF: 2133021.8/26

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 164.765 $\pm$ 0.032 χ^2 /NDF: 2625859.1/30

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF:1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

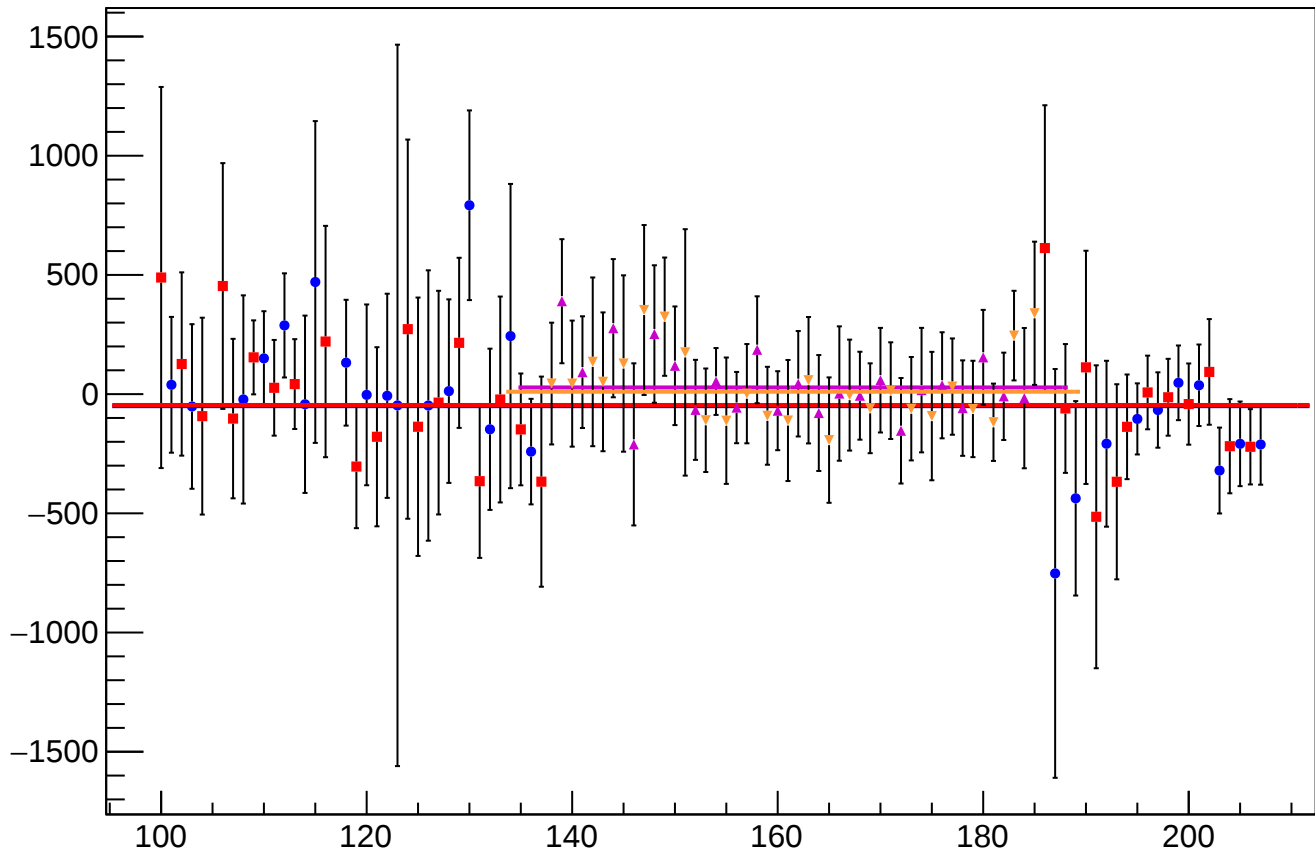
Right: 166.561 $\pm$ 0.023 χ^2 /NDF: 4765677.4/57

In: 175.604 $\pm$ 0.023 χ^2 /NDF:3329541.6/49

Out: 174.616 $\pm$ 0.022 χ^2 /NDF:3940115.8/55

All: 175.091 $\pm$ 0.016 χ^2 /NDF: 7270608.2/105

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -50.567 ± 48.210 χ^2/NDF : 16.7/26

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -45.491 ± 46.920 χ^2/NDF : 12.7/30

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

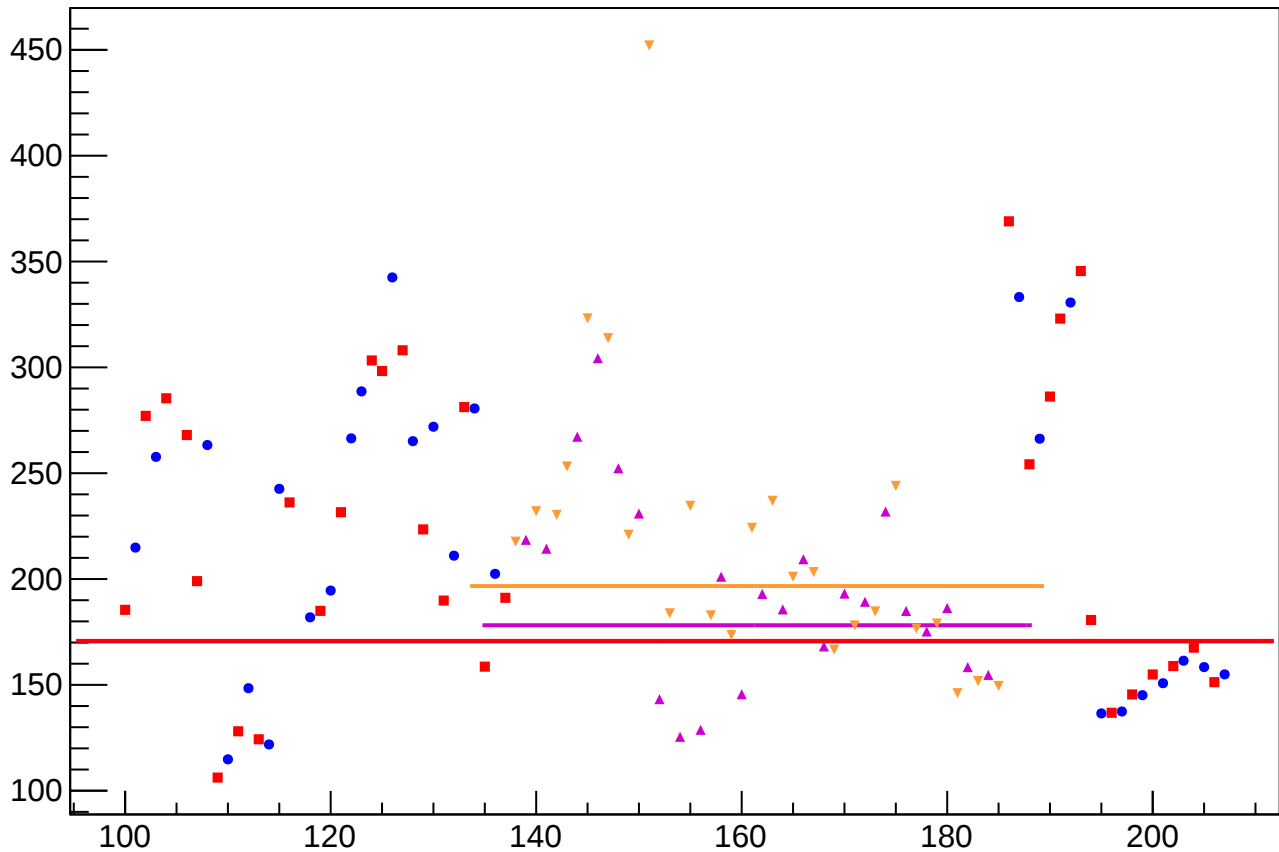
Right: -47.960 ± 33.624 χ^2/NDF : 29.4/57

In: -8.181 ± 32.728 χ^2/NDF : 25.1/49

Out: -18.041 ± 33.377 χ^2/NDF : 21.8/55

All: -13.015 ± 23.368 χ^2/NDF : 47.0/105

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 170.580 $\pm$ 0.034 χ^2 /NDF: 2099798.7/26

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 170.779 $\pm$ 0.033 χ^2 /NDF: 2779929.7/30

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

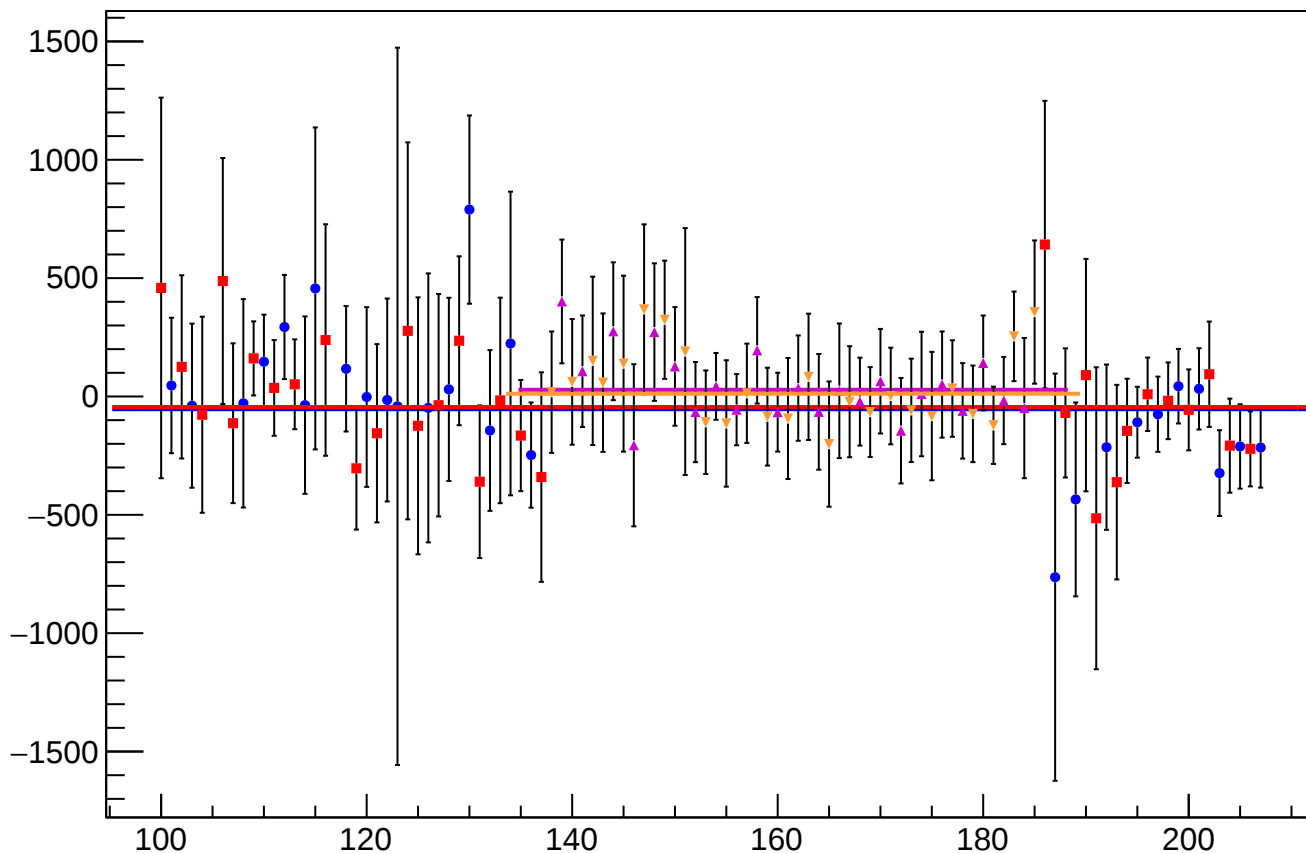
Right: 170.682 $\pm$ 0.024 χ^2 /NDF: 4879746.0/57

In: 174.670 $\pm$ 0.023 χ^2 /NDF:3745464.3/49

Out: 183.575 $\pm$ 0.024 χ^2 /NDF:4863736.4/55

All: 179.035 $\pm$ 0.017 χ^2 /NDF: 8681782.4/105

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -53.759 ± 48.444 χ^2/NDF : 16.7/26

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -44.543 ± 47.156 χ^2/NDF : 12.9/30

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

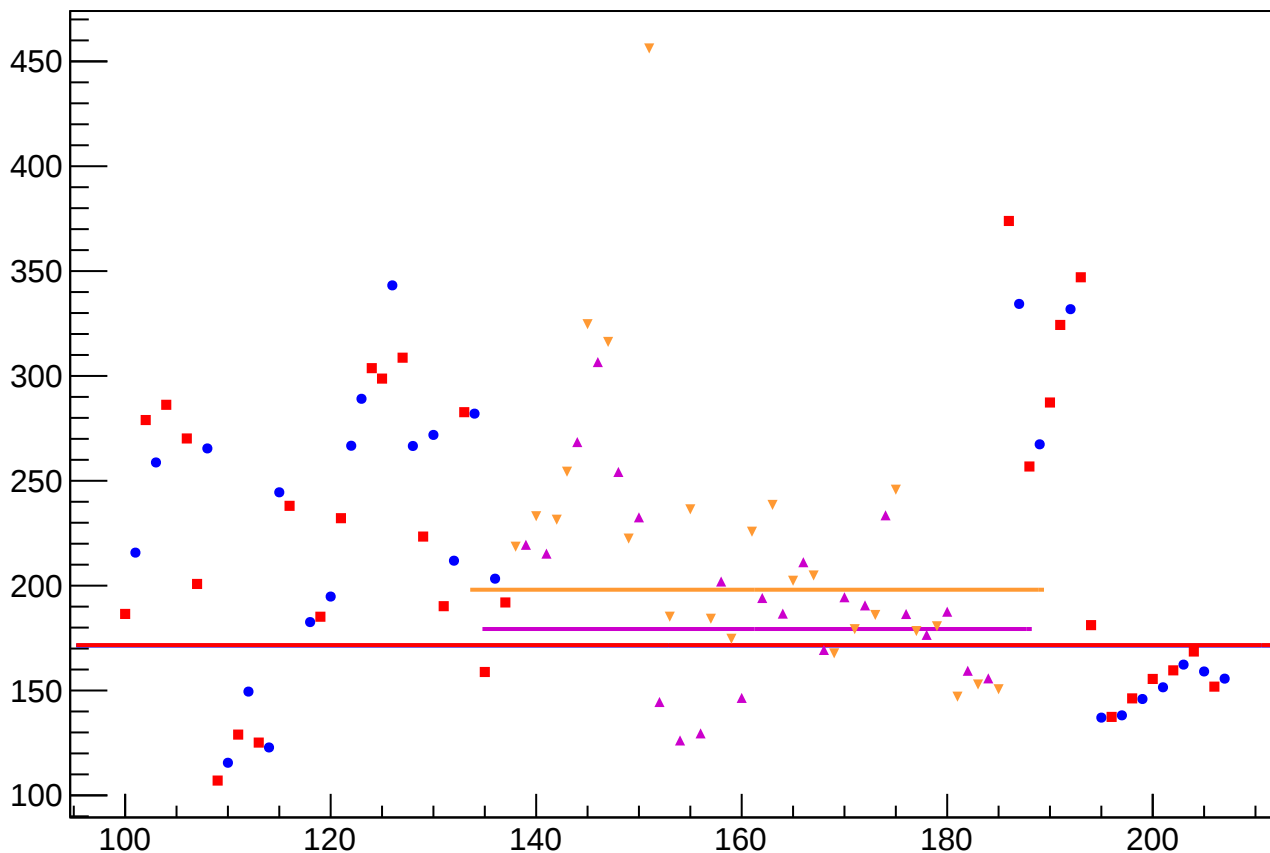
Right: -49.027 ± 33.790 χ^2/NDF : 29.6/57

In: -9.596 ± 32.916 χ^2/NDF : 25.3/49

Out: -16.923 ± 33.576 χ^2/NDF : 22.4/55

All: -13.187 ± 23.505 χ^2/NDF : 47.7/105

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 171.436 ± 0.034 $\chi^2/\text{NDF}: 2090642.0/26$

Left Out: 198.059 ± 0.034 $\chi^2/\text{NDF}: 1778526.5/24$

Right Out: 171.650 ± 0.033 $\chi^2/\text{NDF}: 2775338.1/30$

Left In: 179.324 ± 0.032 $\chi^2/\text{NDF}: 1618266.2/22$

Left: 188.094 ± 0.023 $\chi^2/\text{NDF}: 3560073.1/47$

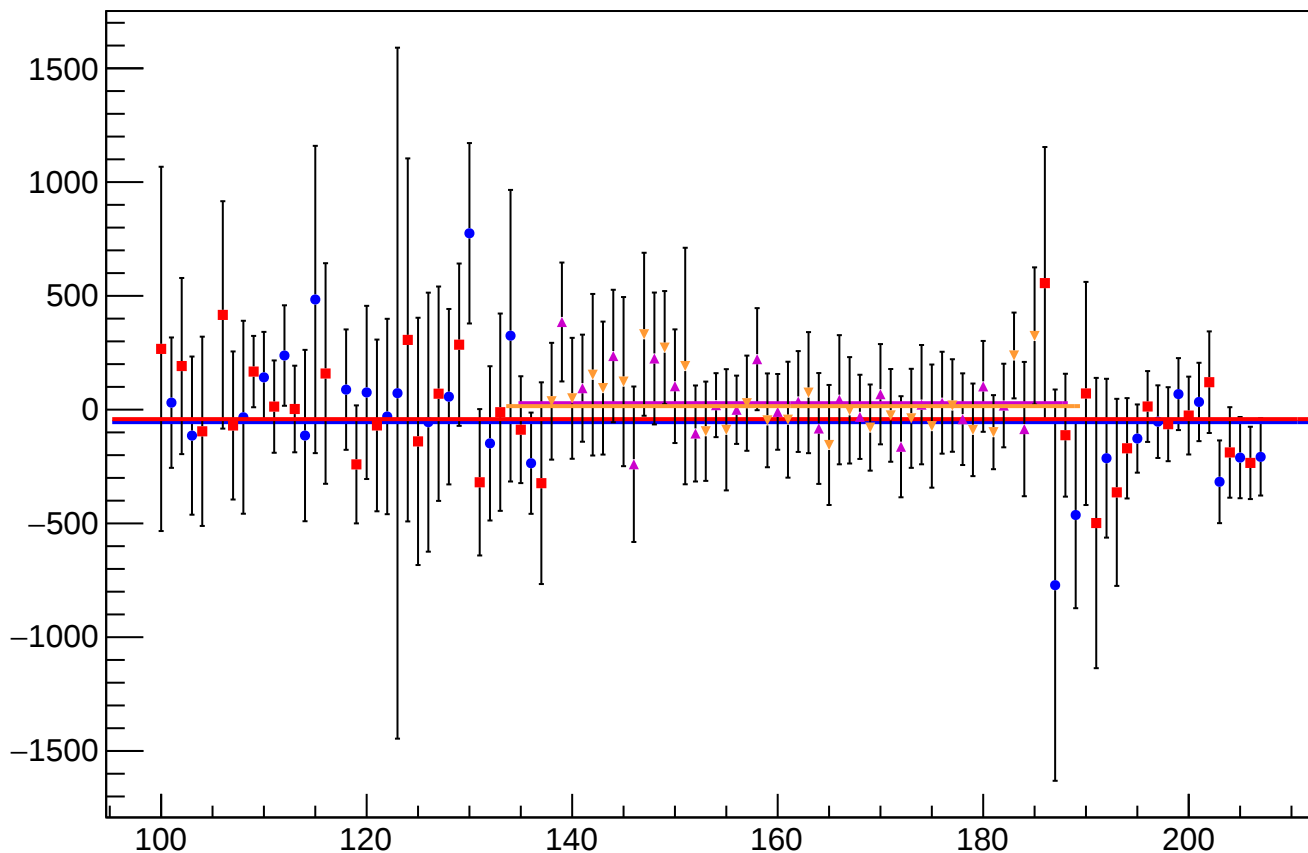
Right: 171.546 ± 0.024 $\chi^2/\text{NDF}: 4866000.1/57$

In: 175.682 ± 0.023 $\chi^2/\text{NDF}: 3737452.6/49$

Out: 184.670 ± 0.024 $\chi^2/\text{NDF}: 4863124.5/55$

All: 180.087 ± 0.017 $\chi^2/\text{NDF}: 8673653.9/105$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -54.968 ± 48.525 χ^2/NDF : 16.1/26

Left Out: 15.437 ± 47.695 χ^2/NDF : 7.0/24

Right Out: -41.709 ± 47.164 χ^2/NDF : 11.6/30

Left In: 28.277 ± 44.743 χ^2/NDF : 6.4/22

Left: 22.267 ± 32.632 χ^2/NDF : 13.4/47

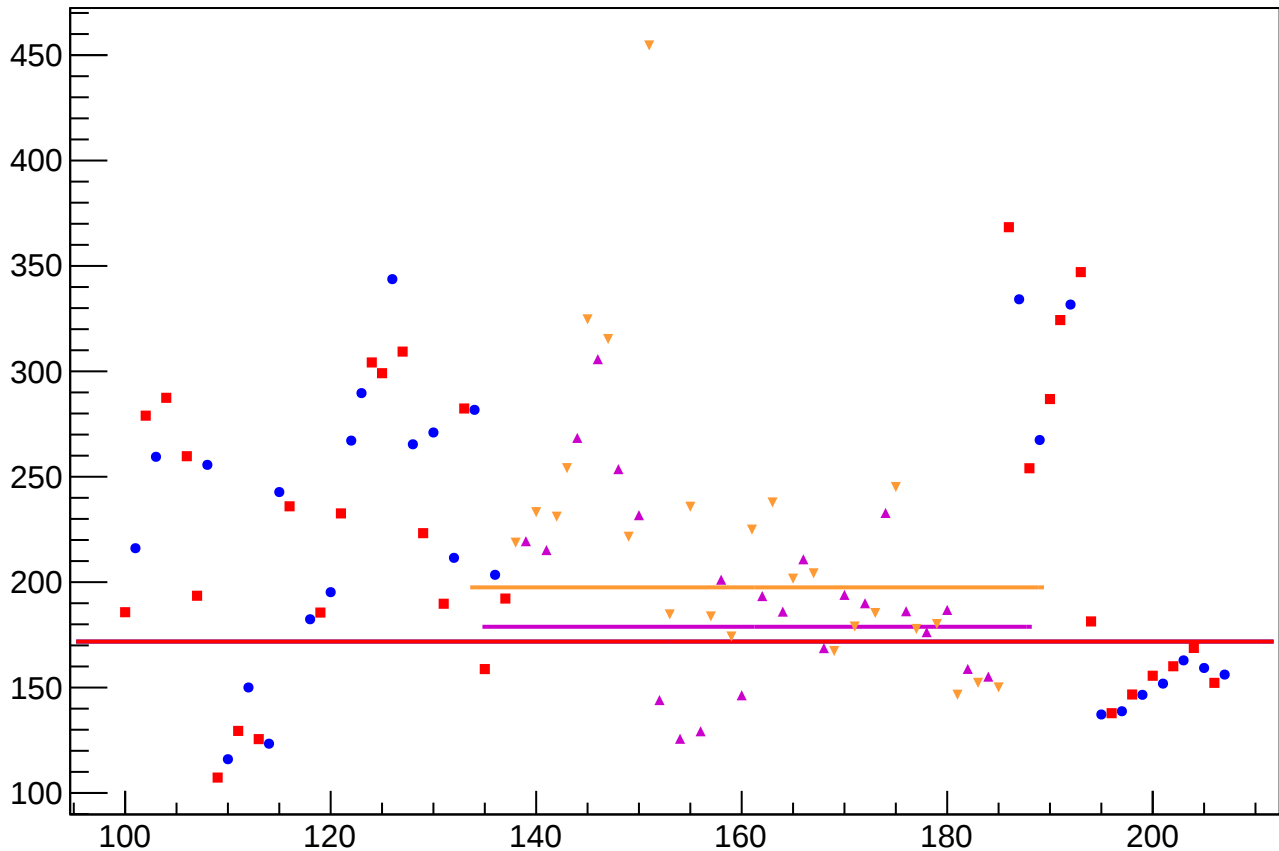
Right: -48.150 ± 33.821 χ^2/NDF : 27.8/57

In: -9.976 ± 32.894 χ^2/NDF : 24.1/49

Out: -13.456 ± 33.536 χ^2/NDF : 19.3/55

All: -11.682 ± 23.483 χ^2/NDF : 43.4/105

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.827 $\pm$ 0.034 χ^2 /NDF: 2059295.1/26

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 171.820 $\pm$ 0.033 χ^2 /NDF: 2730187.6/30

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

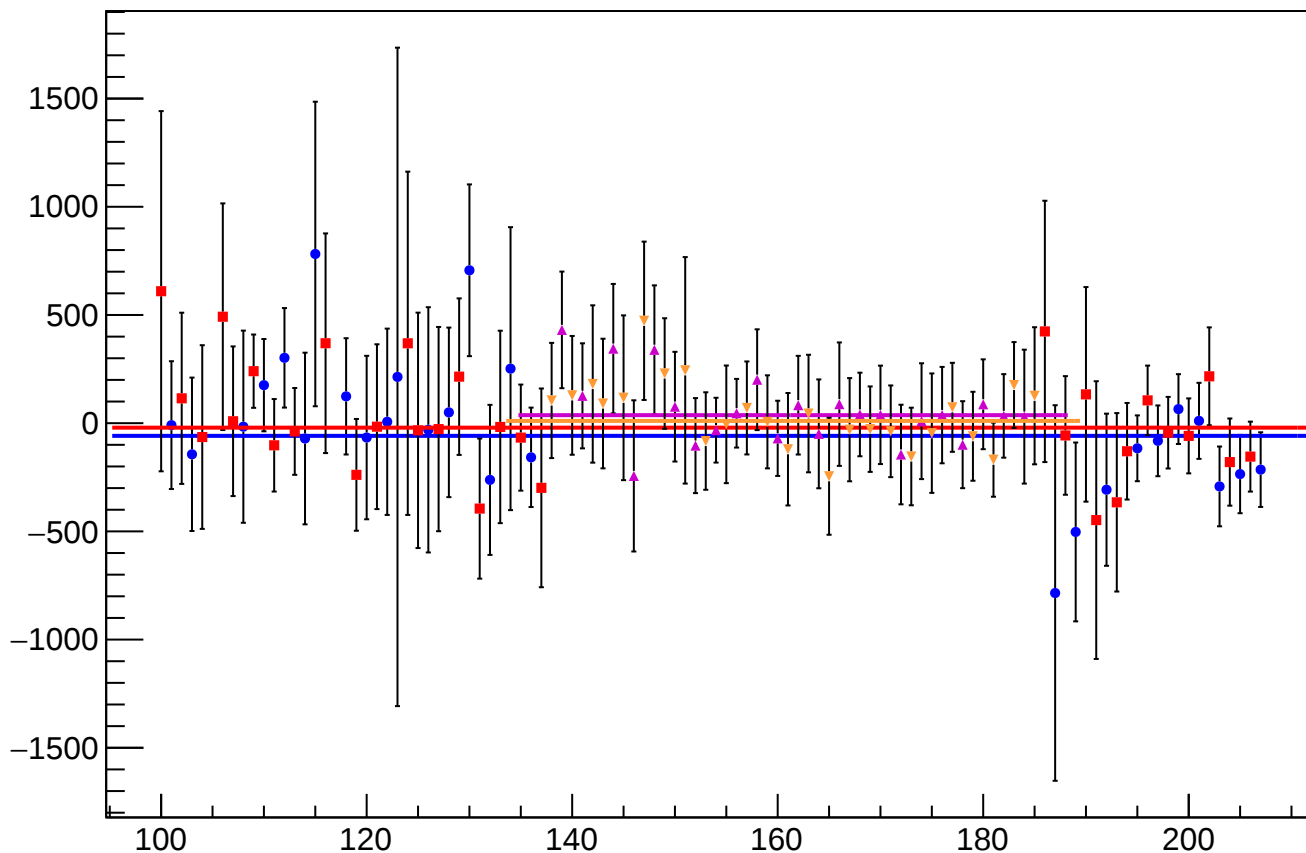
Right: 171.823 $\pm$ 0.024 χ^2 /NDF: 4789482.8/57

In: 175.615 $\pm$ 0.023 χ^2 /NDF:3704109.5/49

Out: 184.530 $\pm$ 0.024 χ^2 /NDF:4808193.3/55

All: 179.986 $\pm$ 0.017 χ^2 /NDF: 8584325.6/105

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -58.572 ± 49.603 χ^2/NDF : 16.9/26

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -20.690 ± 48.480 χ^2/NDF : 13.0/30

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

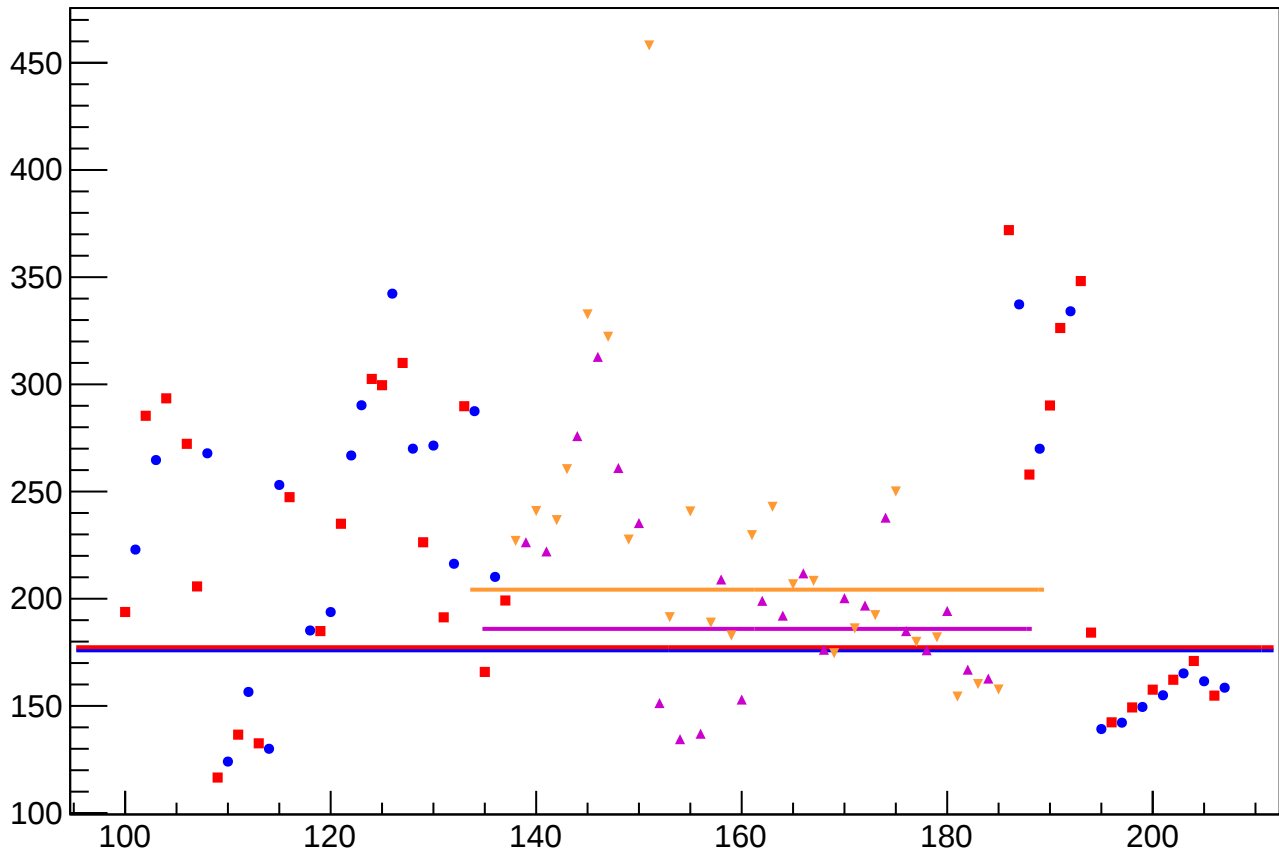
Right: -39.198 ± 34.671 χ^2/NDF : 30.2/57

In: -7.557 ± 33.869 χ^2/NDF : 26.8/49

Out: -5.307 ± 34.531 χ^2/NDF : 20.7/55

All: -6.454 ± 24.180 χ^2/NDF : 47.5/105

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.933 ± 0.035 $\chi^2/\text{NDF}: 1987619.7/26$

Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$

Right Out: 177.371 ± 0.034 $\chi^2/\text{NDF}: 2545893.8/30$

Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$

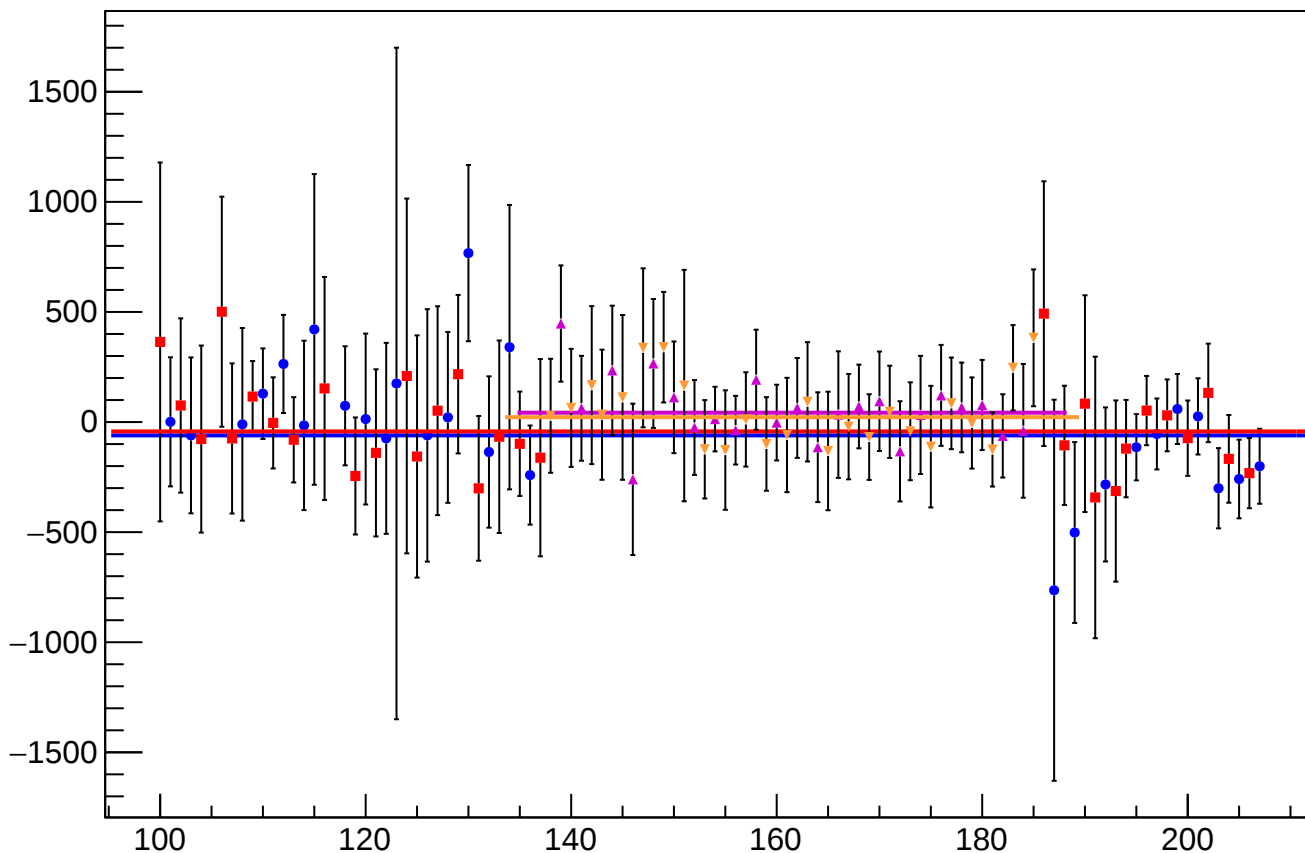
Right: 176.668 ± 0.025 $\chi^2/\text{NDF}: 4534372.3/57$

In: 181.270 ± 0.024 $\chi^2/\text{NDF}: 3491056.4/49$

Out: 190.606 ± 0.024 $\chi^2/\text{NDF}: 4524133.6/55$

All: 185.848 ± 0.017 $\chi^2/\text{NDF}: 8089703.4/105$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -60.709 ± 48.978 χ^2/NDF : 16.0/26

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -42.456 ± 47.708 χ^2/NDF : 9.4/30

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

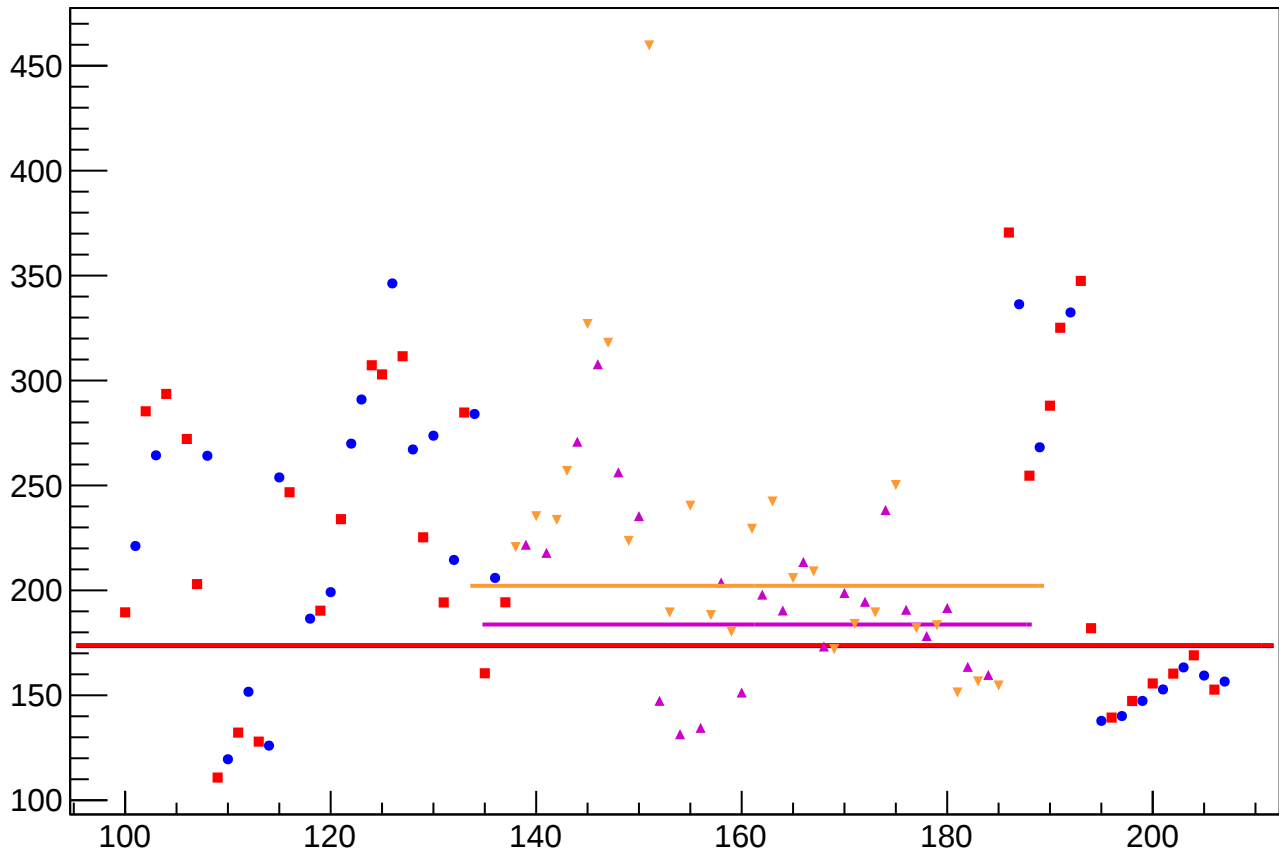
Right: -51.343 ± 34.175 χ^2/NDF : 25.5/57

In: -5.744 ± 33.476 χ^2/NDF : 25.1/49

Out: -10.824 ± 34.093 χ^2/NDF : 18.7/55

All: -8.238 ± 23.886 χ^2/NDF : 43.8/105

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 173.437 ± 0.035 χ^2/NDF : 2069503.9/26

Left Out: 202.186 ± 0.034 χ^2/NDF : 1696571.9/24

Right Out: 173.957 ± 0.034 χ^2/NDF : 2709043.8/30

Left In: 183.732 ± 0.032 χ^2/NDF : 1495930.4/22

Left: 192.398 ± 0.024 χ^2/NDF : 3344580.1/47

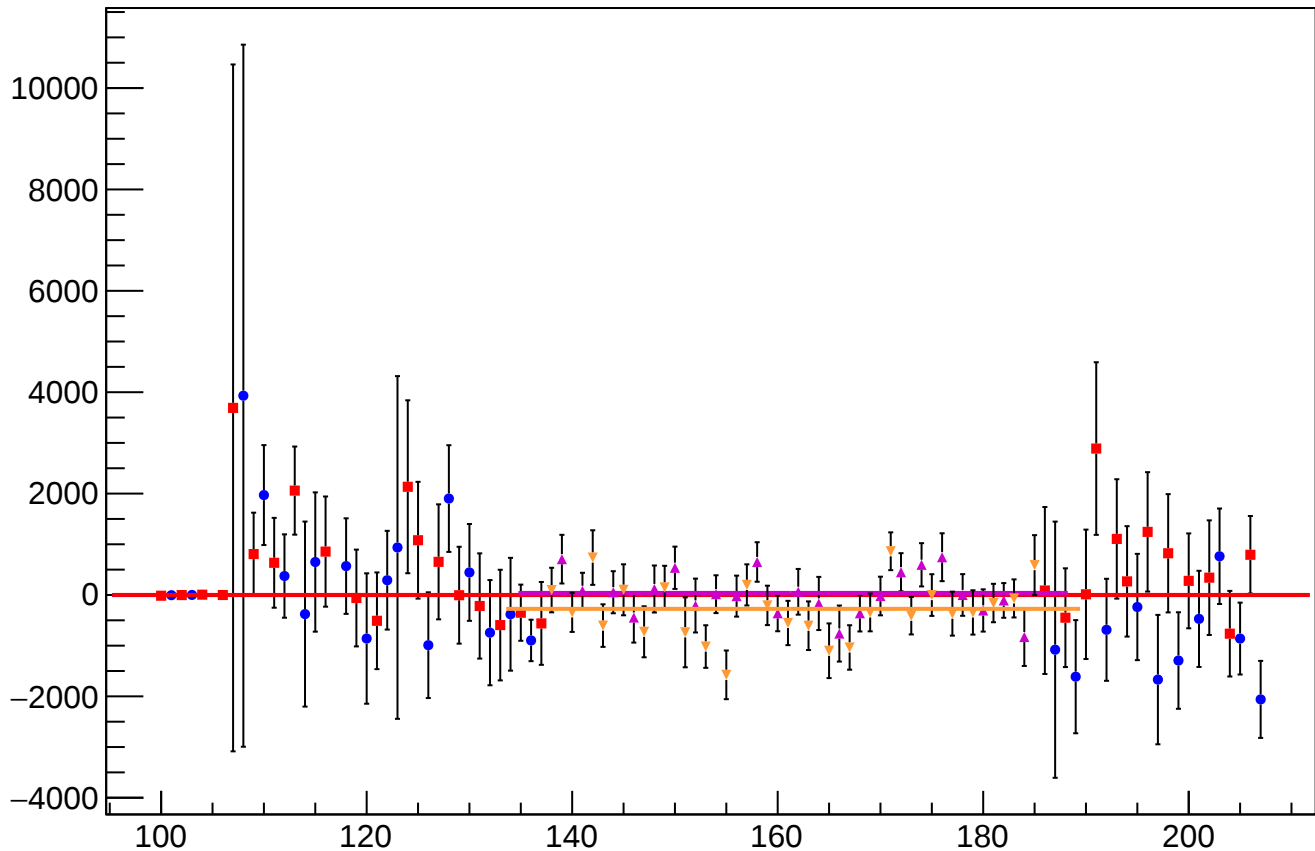
Right: 173.704 ± 0.024 χ^2/NDF : 4778663.4/57

In: 178.923 ± 0.024 χ^2/NDF : 3612520.5/49

Out: 187.770 ± 0.024 χ^2/NDF : 4748258.6/55

All: 183.265 ± 0.017 χ^2/NDF : 8429351.1/105

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.578 ± 2.251 χ^2/NDF : 32.9/26

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.748 ± 2.111 χ^2/NDF : 25.9/30

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

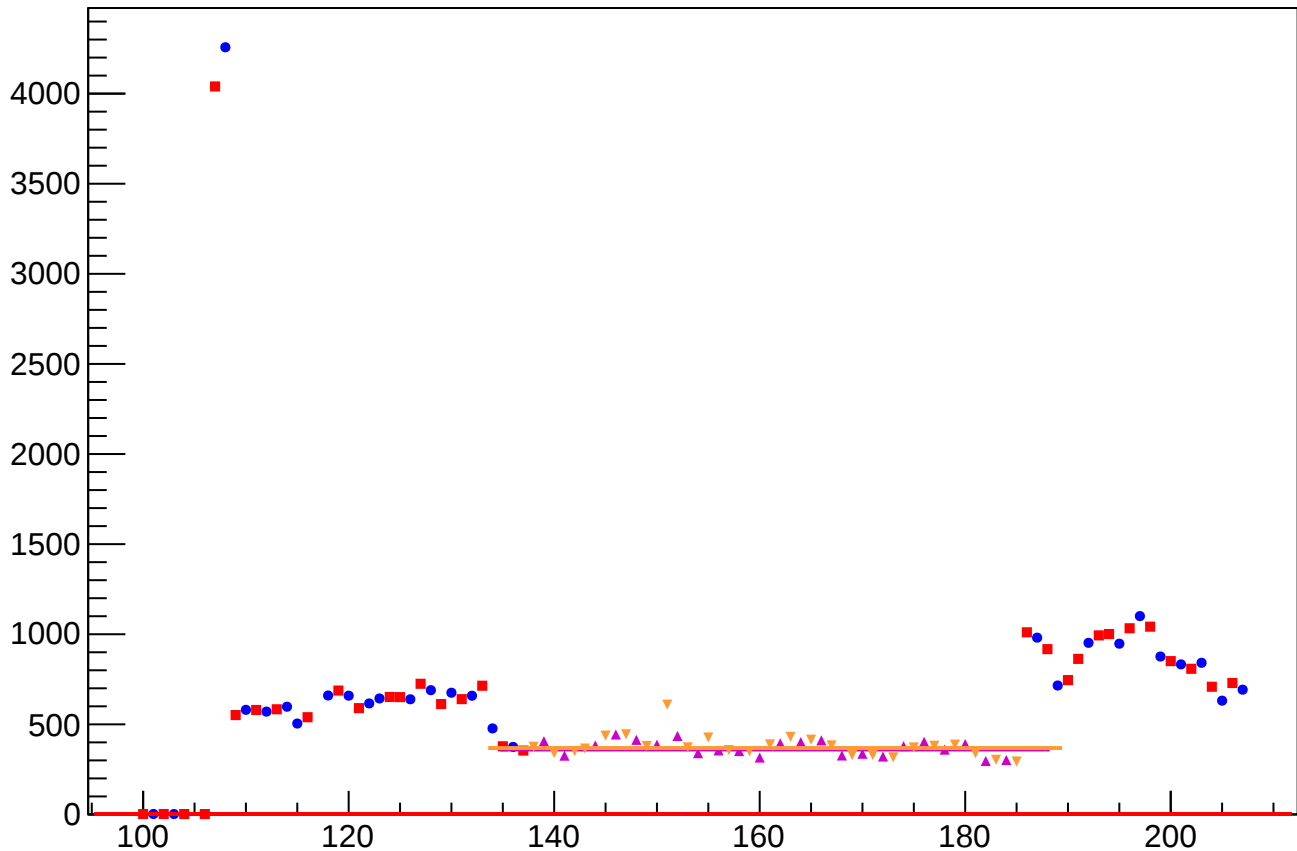
Right: -0.340 ± 1.540 χ^2/NDF : 59.5/57

In: -1.550 ± 2.251 χ^2/NDF : 53.3/49

Out: 0.586 ± 2.110 χ^2/NDF : 74.2/55

All: -0.413 ± 1.539 χ^2/NDF : 128.0/105

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.499+/-0.002 χ^2/NDF : 24699926.6/26

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.477+/-0.001 χ^2/NDF : 26879535.6/30

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

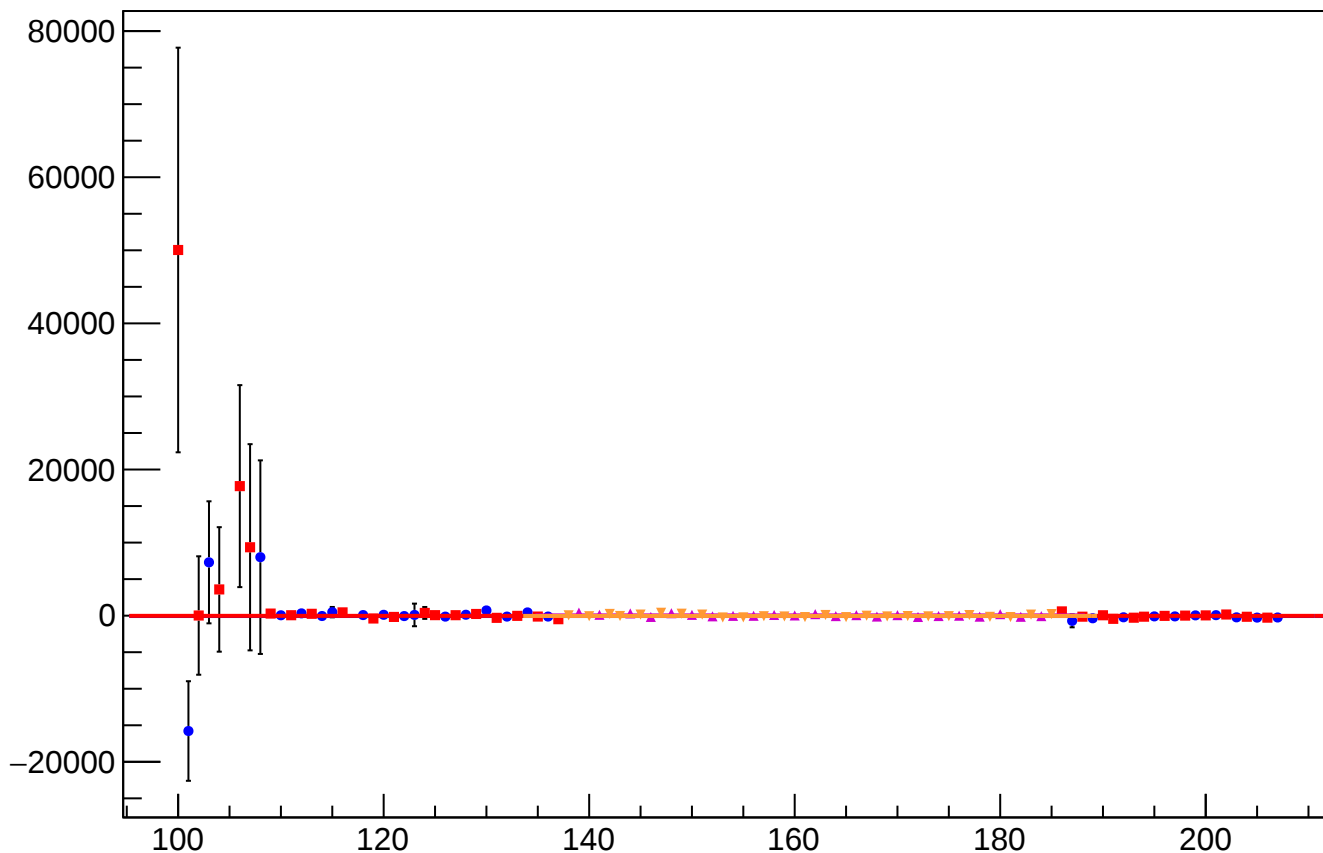
Right: 2.487+/-0.001 χ^2/NDF : 51579566.7/57

In: 2.736+/-0.002 χ^2/NDF : 58615888.8/49

Out: 2.693+/-0.001 χ^2/NDF : 62988711.5/55

All: 2.713+/-0.001 χ^2/NDF : 121604994.8/105

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -48.960 ± 53.742 χ^2/NDF : 20.1/26

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -24.662 ± 53.289 χ^2/NDF : 20.0/30

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

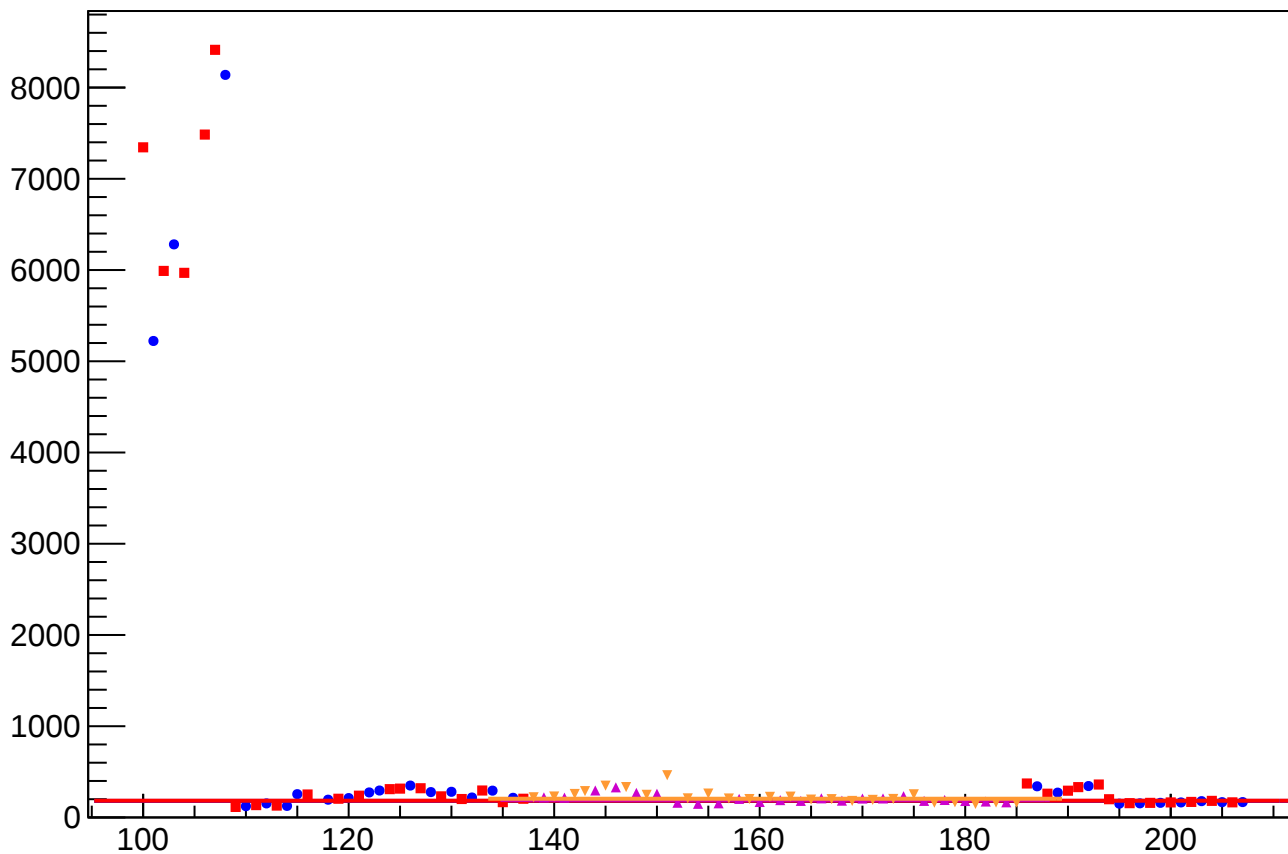
Right: -36.708 ± 37.840 χ^2/NDF : 40.2/57

In: -6.142 ± 35.813 χ^2/NDF : 30.8/49

Out: -32.367 ± 36.297 χ^2/NDF : 29.2/55

All: -19.078 ± 25.493 χ^2/NDF : 60.3/105

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 181.182 $\pm$ 0.038 χ^2 /NDF: 4505347.2/26

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 183.464 $\pm$ 0.038 χ^2 /NDF: 5354367.0/30

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

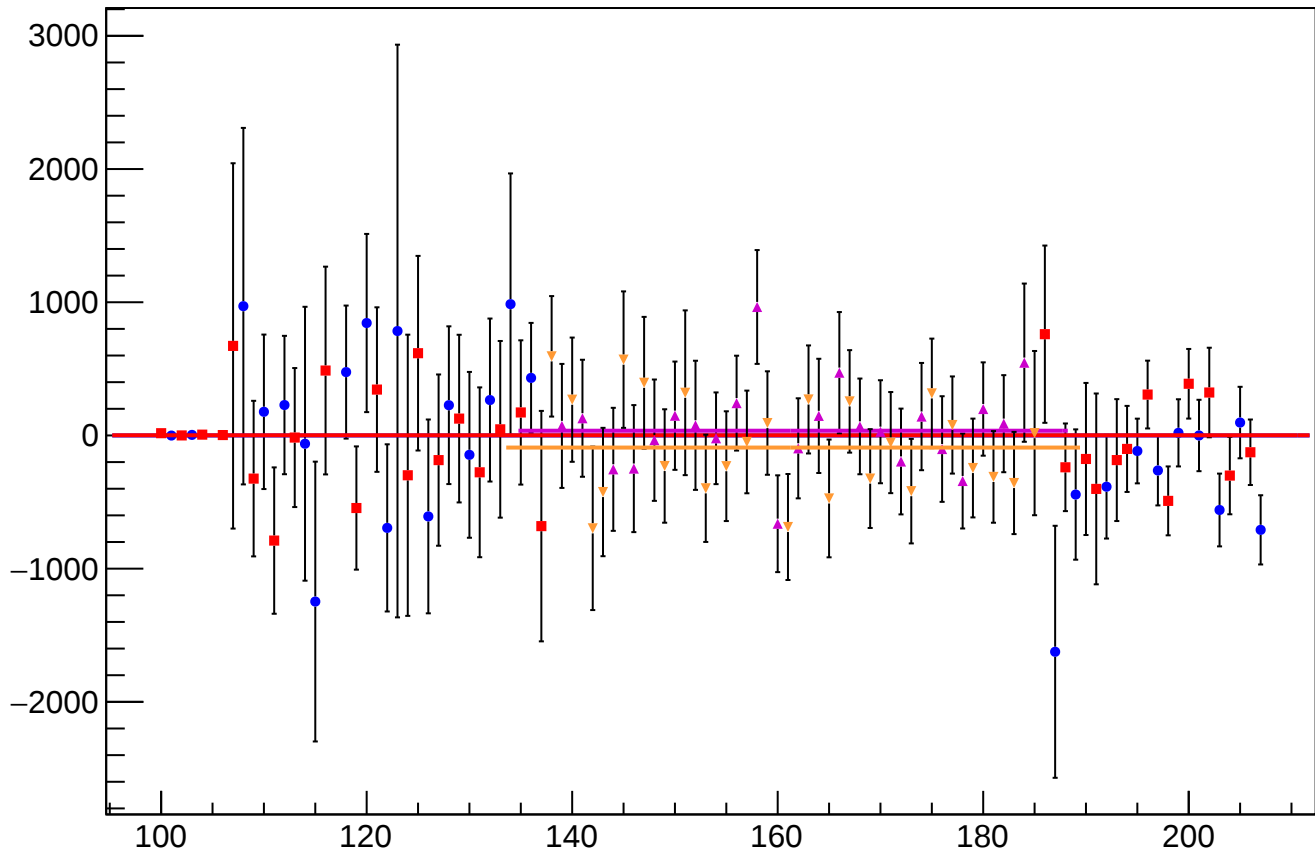
Right: 182.333 $\pm$ 0.027 χ^2 /NDF: 9861532.6/57

In: 188.094 $\pm$ 0.025 χ^2 /NDF:5744338.0/49

Out: 195.069 $\pm$ 0.026 χ^2 /NDF:7488807.5/55

All: 191.535 $\pm$ 0.018 χ^2 /NDF: 13270567.4/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.226 ± 1.736 χ^2/NDF : 27.9/26

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.313 ± 1.622 χ^2/NDF : 21.3/30

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

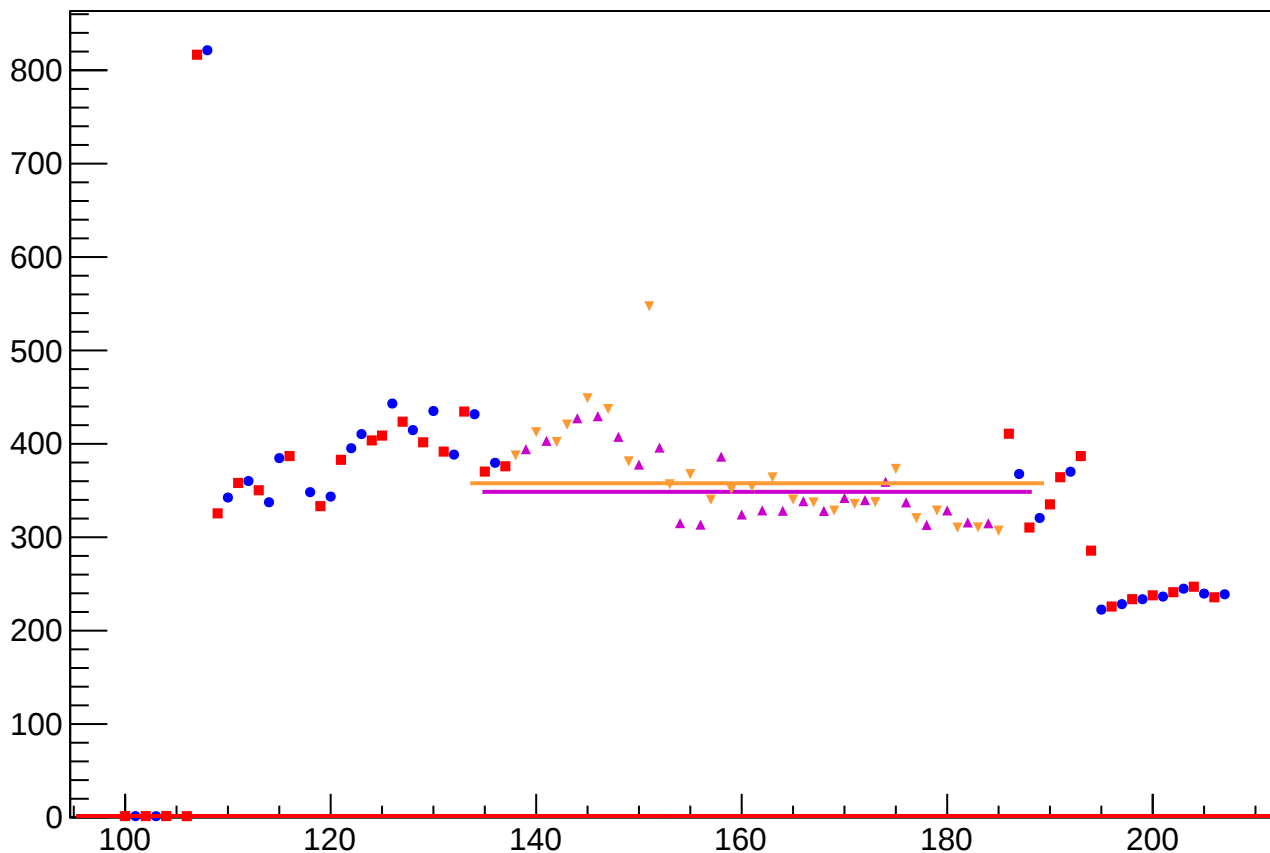
Right: 0.596 ± 1.185 χ^2/NDF : 49.6/57

In: -0.211 ± 1.736 χ^2/NDF : 41.5/49

Out: 1.279 ± 1.622 χ^2/NDF : 38.9/55

All: 0.585 ± 1.185 χ^2/NDF : 80.8/105

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.537 $\pm$ 0.001 χ^2 /NDF: 24936812.9/26

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF:547036.5/24

Right Out: 1.528 $\pm$ 0.001 χ^2 /NDF: 26575471.3/30

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF:362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

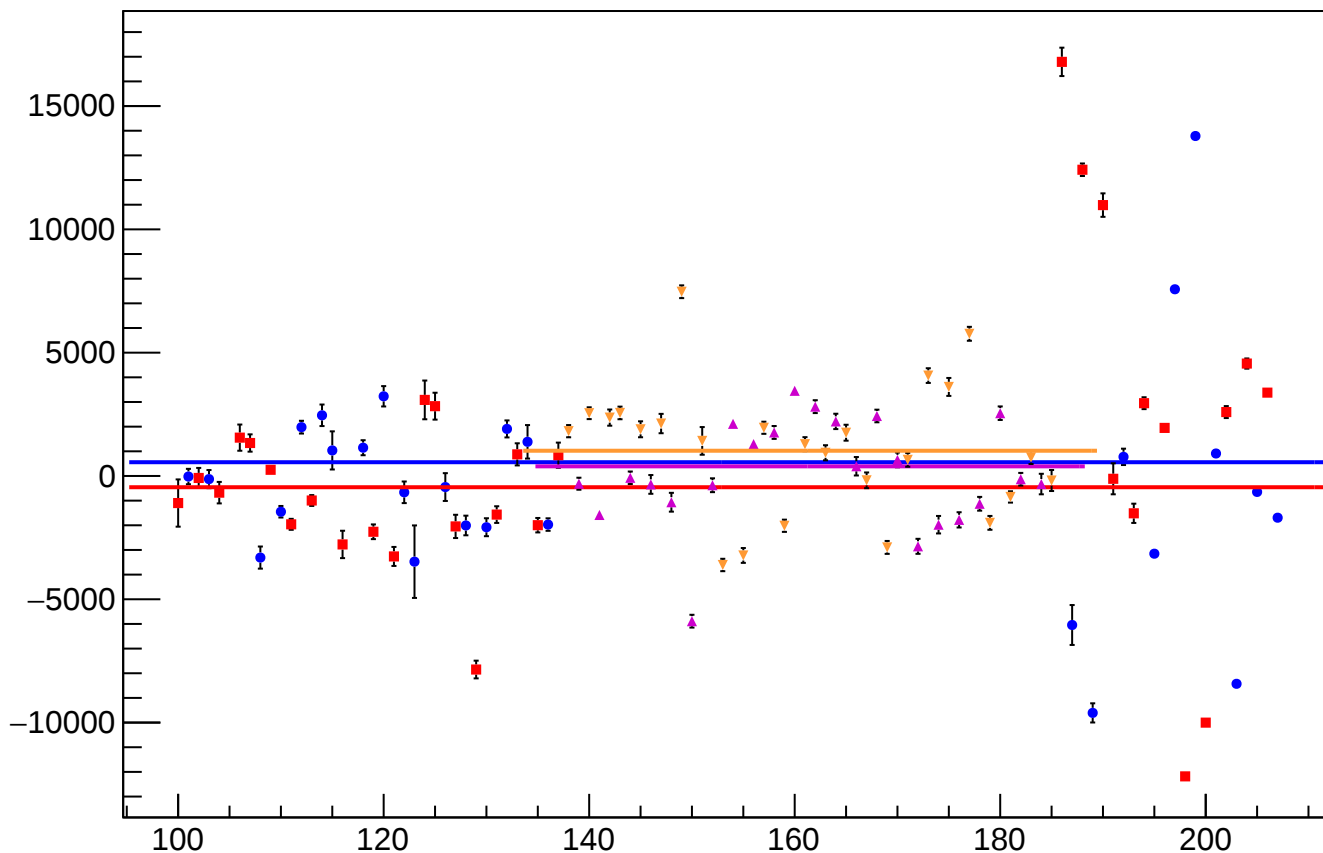
Right: 1.532 $\pm$ 0.001 χ^2 /NDF: 51512312.2/57

In: 1.684 $\pm$ 0.001 χ^2 /NDF:59120355.4/49

Out: 1.661 $\pm$ 0.001 χ^2 /NDF:63020554.3/55

All: 1.672 $\pm$ 0.001 χ^2 /NDF: 122141100.2/105

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 557.786+/-53.345 χ^2/NDF : 11007.4/26

Left Out: 1023.439+/-57.338 χ^2/NDF :2309.4/24

Right Out: -456.540+/-51.559 χ^2/NDF : 13208.9/30

Left In: 390.237+/-54.931 χ^2/NDF :1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

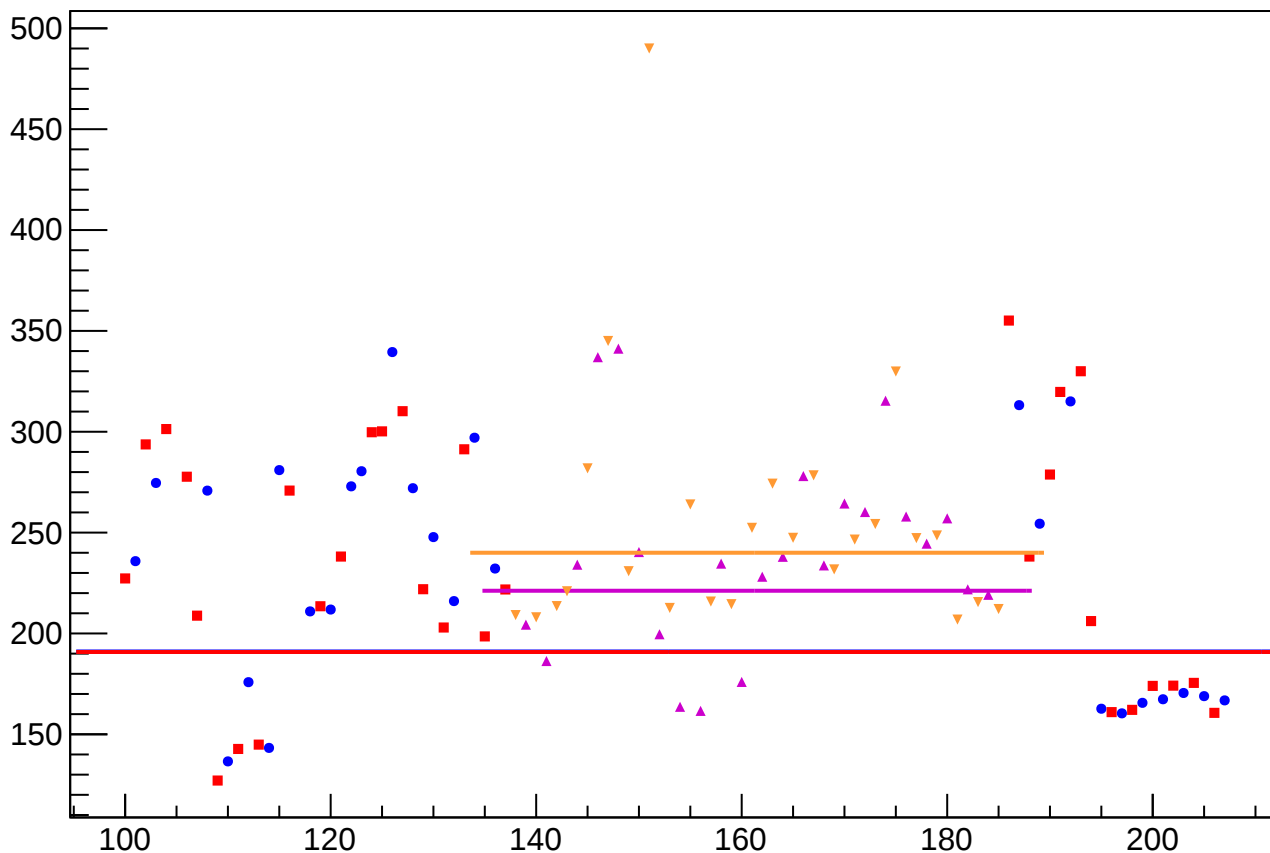
Right: 33.356+/-37.073 χ^2/NDF : 24403.2/57

In: 476.465+/-38.269 χ^2/NDF :12597.1/49

Out: 205.131+/-38.339 χ^2/NDF :15886.7/55

All: 341.043+/-27.085 χ^2/NDF : 28508.8/105

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 191.059 ± 0.038 χ^2/NDF : 1489259.7/26

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 190.818 ± 0.036 χ^2/NDF : 2050485.7/30

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

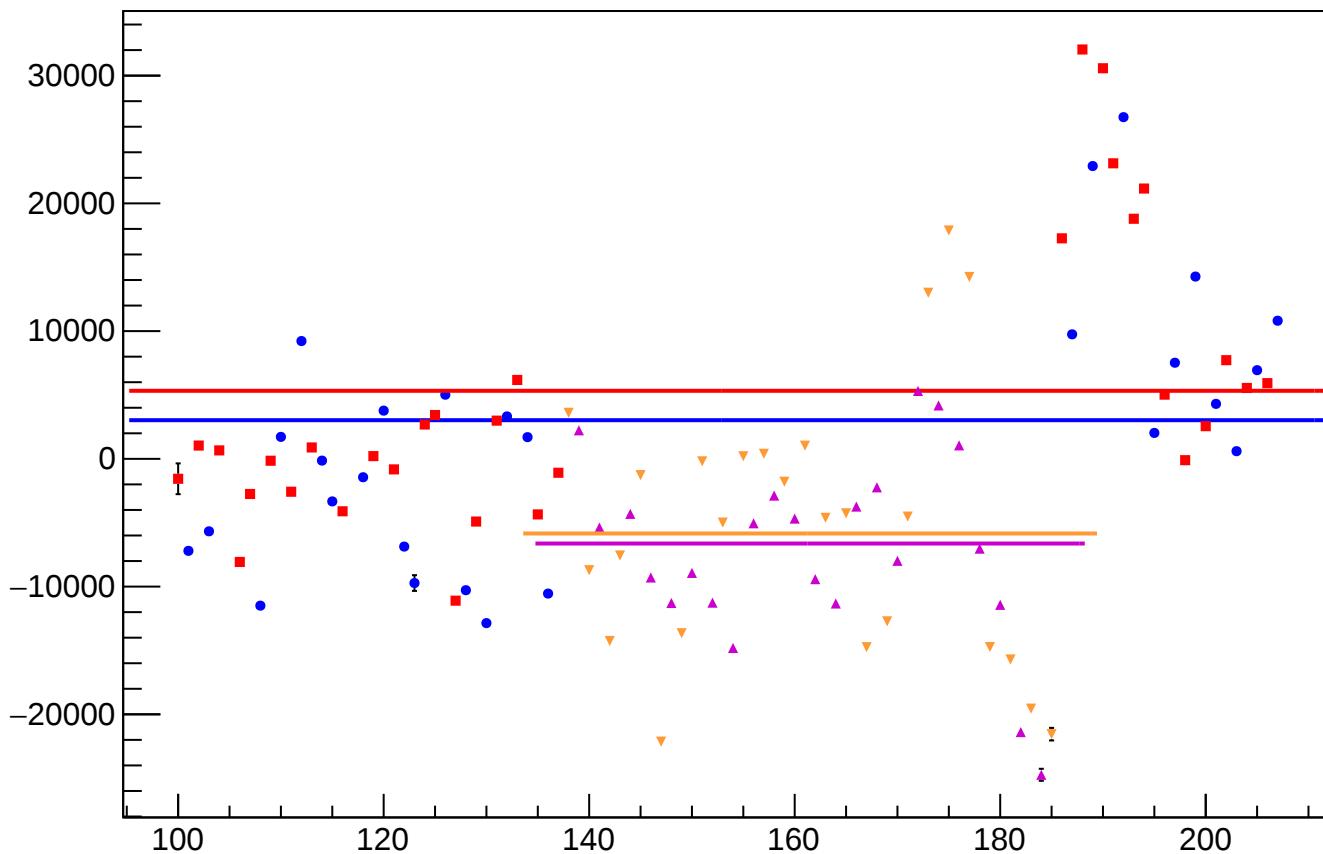
Right: 190.934 ± 0.026 χ^2/NDF : 3539766.5/57

In: 205.675 ± 0.027 χ^2/NDF : 3141116.5/49

Out: 212.815 ± 0.027 χ^2/NDF : 3867174.2/55

All: 209.238 ± 0.019 χ^2/NDF : 7043036.1/105

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3025.869+/-36.504 χ^2/NDF : 79989.1/26

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 5327.795+/-34.404 χ^2/NDF : 101442.6/30

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

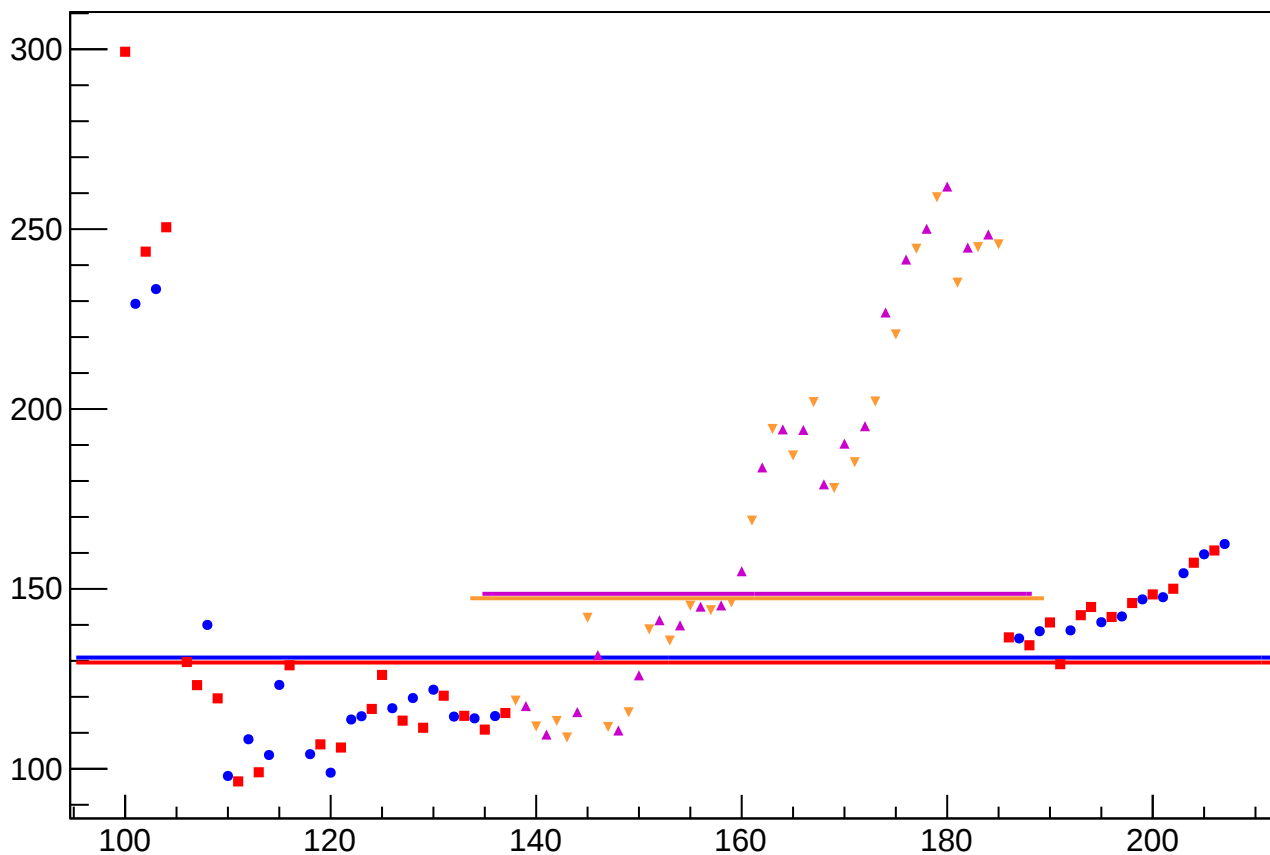
Right: 4244.966+/-25.037 χ^2/NDF : 183537.7/57

In: -1715.296+/-26.041 χ^2/NDF : 136076.6/49

Out: -27.407+/-24.822 χ^2/NDF : 215375.7/55

All: -830.910+/-17.967 χ^2/NDF : 353653.5/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 130.921+/-0.026 χ^2/NDF : 990715.3/26

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 129.545+/-0.024 χ^2/NDF : 1070549.9/30

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

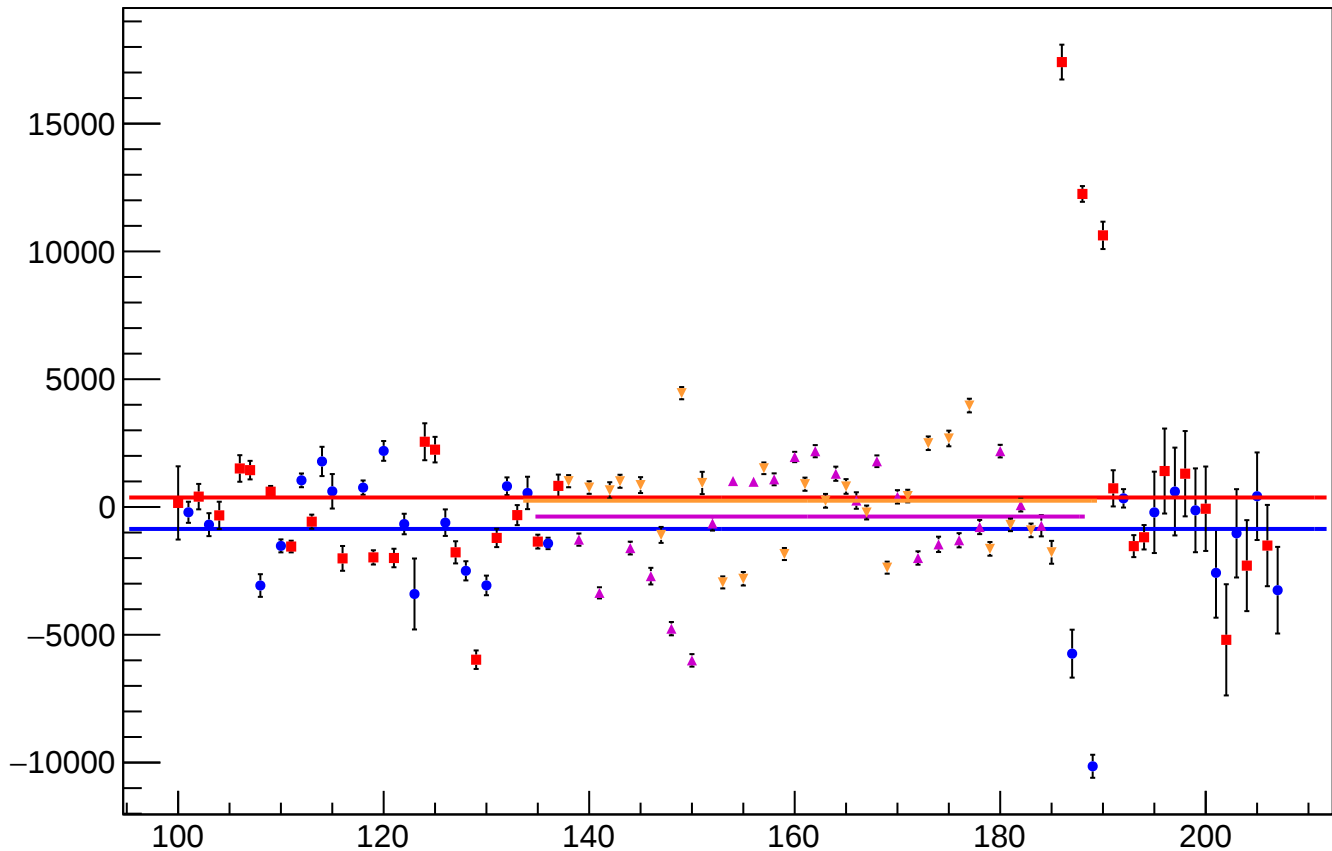
Right: 130.192+/-0.018 χ^2/NDF : 2062770.5/57

In: 139.624+/-0.018 χ^2/NDF : 3637710.8/49

Out: 138.104+/-0.018 χ^2/NDF : 3845814.2/55

All: 138.827+/-0.013 χ^2/NDF : 7487095.4/105

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -859.052 $\pm$ 84.117 χ^2/NDF : 764.0/26

Left Out: 246.120 $\pm$ 53.492 χ^2/NDF :1354.8/24

Right Out: 371.899 $\pm$ 75.013 χ^2/NDF : 3171.1/30

Left In: -374.465 $\pm$ 51.892 χ^2/NDF :1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2/NDF : 3222.4/47

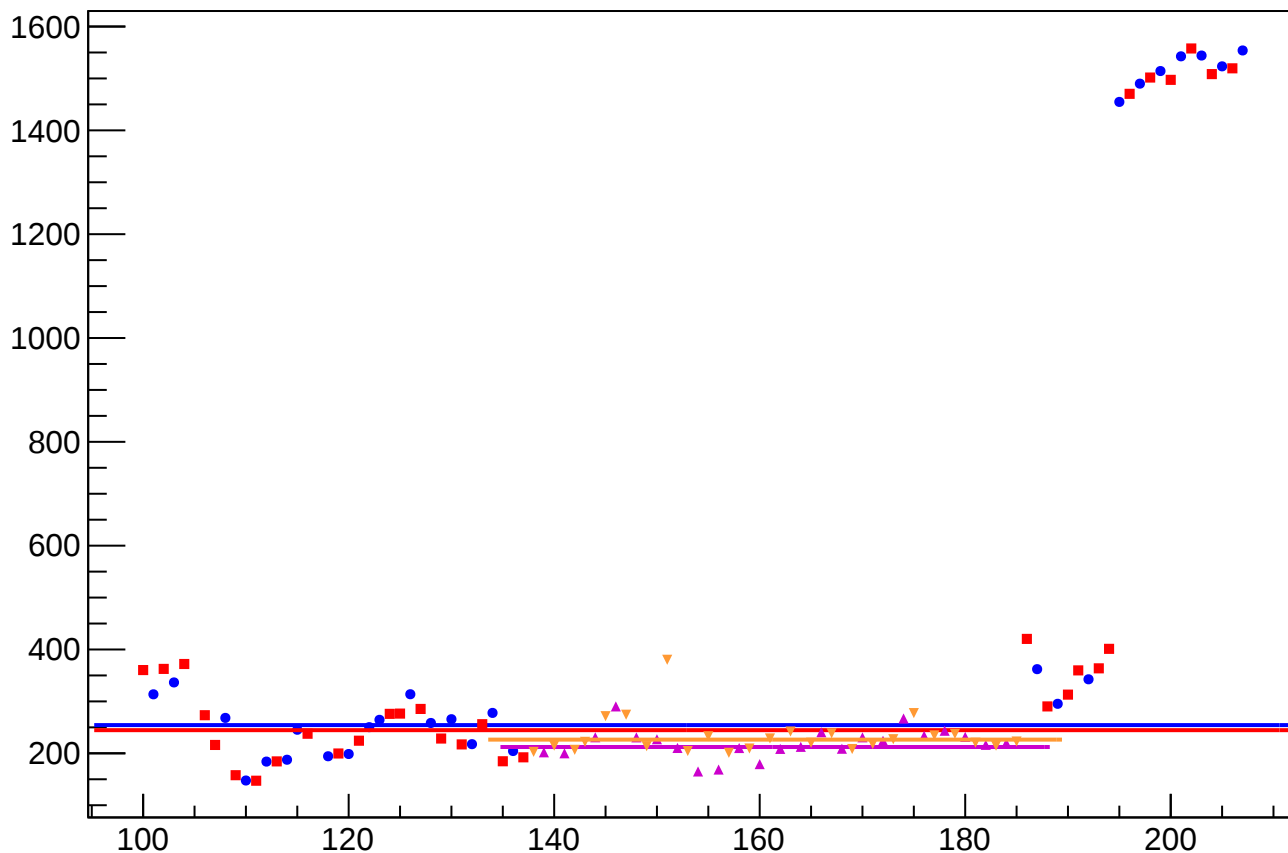
Right: -173.375 $\pm$ 55.985 χ^2/NDF : 4054.4/57

In: -508.047 $\pm$ 44.165 χ^2/NDF :2586.3/49

Out: 288.520 $\pm$ 43.552 χ^2/NDF :4527.8/55

All: -104.204 $\pm$ 31.010 χ^2/NDF : 7279.0/105

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 254.349+/-0.059 χ^2/NDF : 8894846.5/26

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 244.584+/-0.053 χ^2/NDF : 8269172.6/30

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

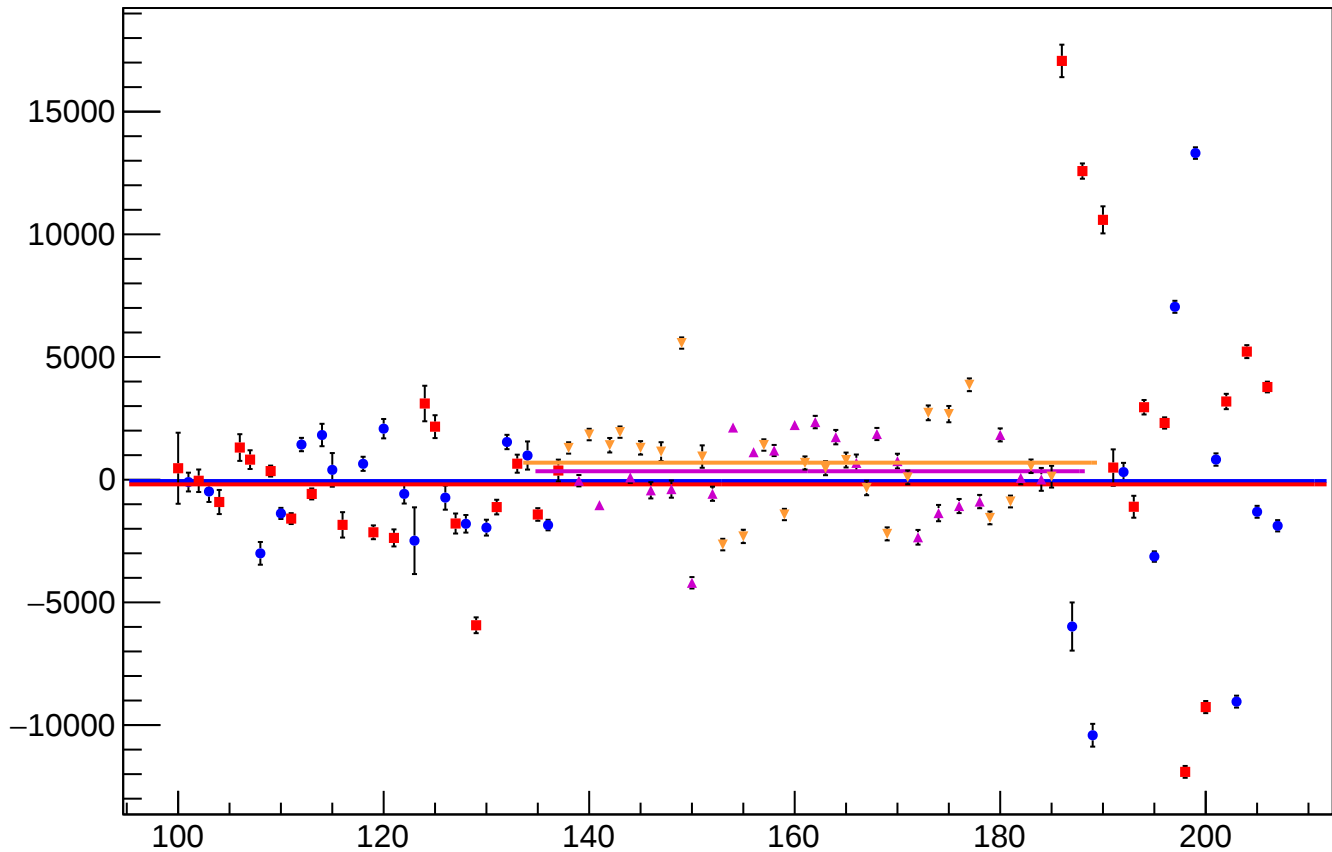
Right: 248.910+/-0.040 χ^2/NDF : 17179033.7/57

In: 223.779+/-0.031 χ^2/NDF : 9851229.5/49

Out: 232.514+/-0.031 χ^2/NDF : 8869062.6/55

All: 228.207+/-0.022 χ^2/NDF : 18759952.0/100

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -54.652 ± 59.947 χ^2/NDF : 6603.2/26

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: -189.776 ± 57.946 χ^2/NDF : 8128.4/30

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

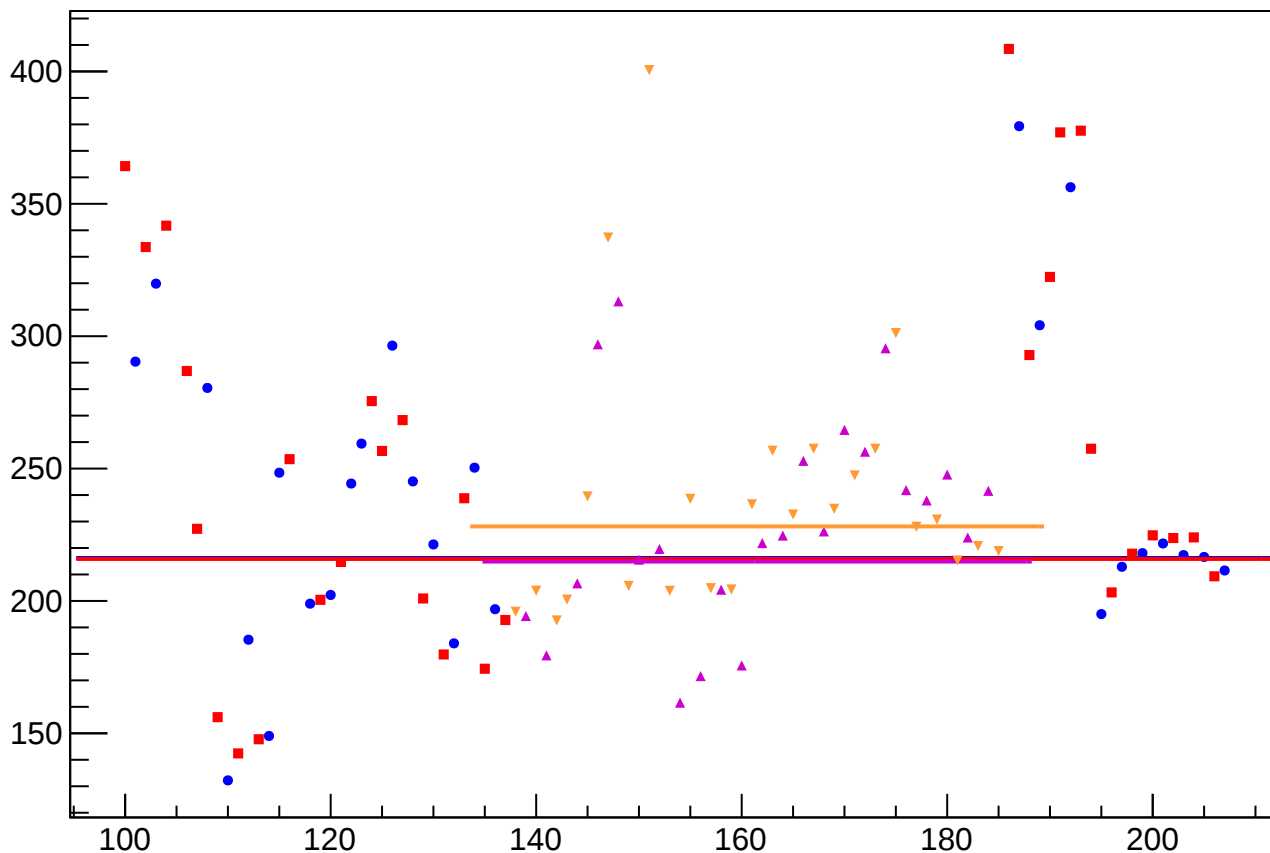
Right: -124.508 ± 41.663 χ^2/NDF : 14734.2/57

In: 169.597 ± 39.687 χ^2/NDF : 7613.2/49

Out: 281.393 ± 39.601 χ^2/NDF : 9674.5/55

All: 225.616 ± 28.033 χ^2/NDF : 17291.7/105

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.217 ± 0.042 $\chi^2/\text{NDF}: 1144730.0/26$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 215.868 ± 0.041 $\chi^2/\text{NDF}: 1821519.6/30$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

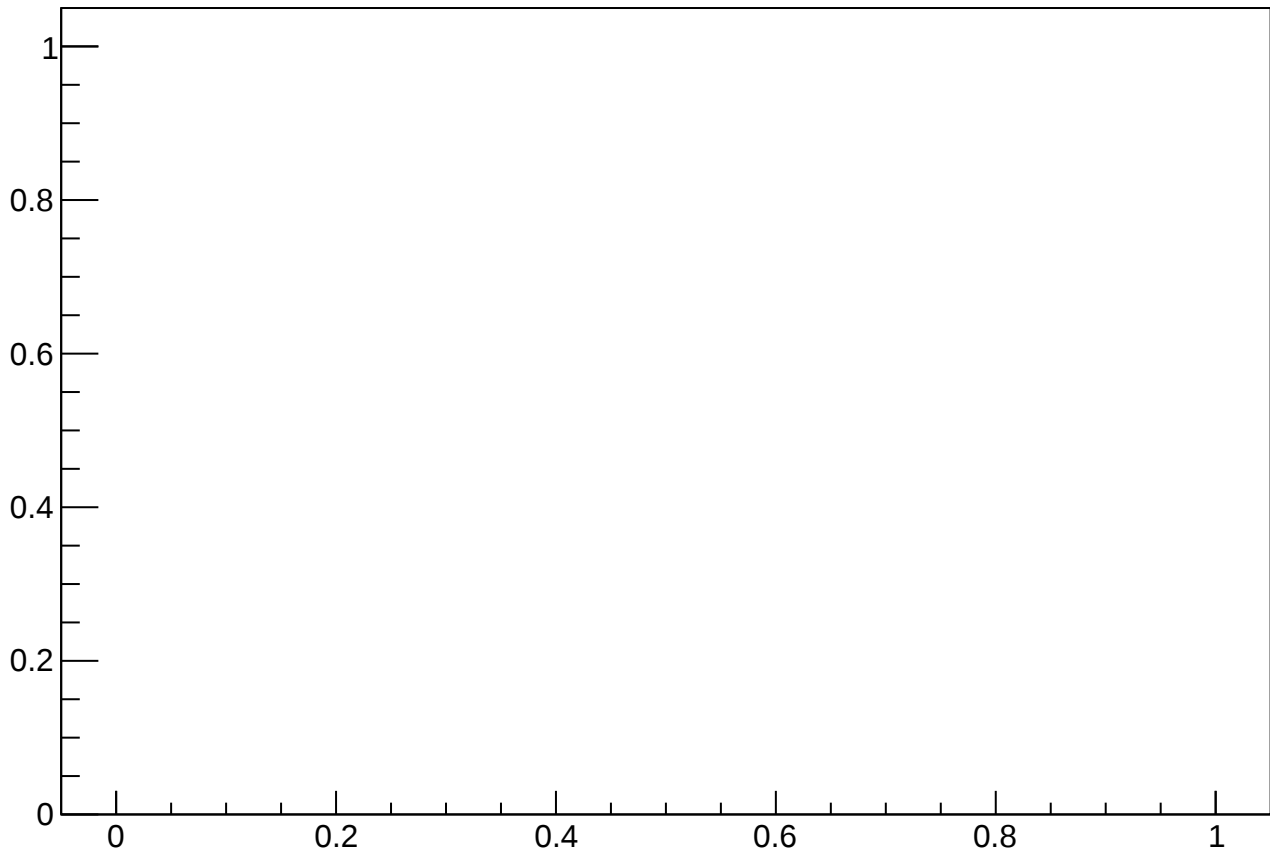
Right: 216.037 ± 0.029 $\chi^2/\text{NDF}: 2966284.5/57$

In: 215.465 ± 0.028 $\chi^2/\text{NDF}: 2182799.6/49$

Out: 222.410 ± 0.028 $\chi^2/\text{NDF}: 2697751.9/55$

All: 218.945 ± 0.020 $\chi^2/\text{NDF}: 4911245.4/105$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

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: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 0.000 $\pm$ 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

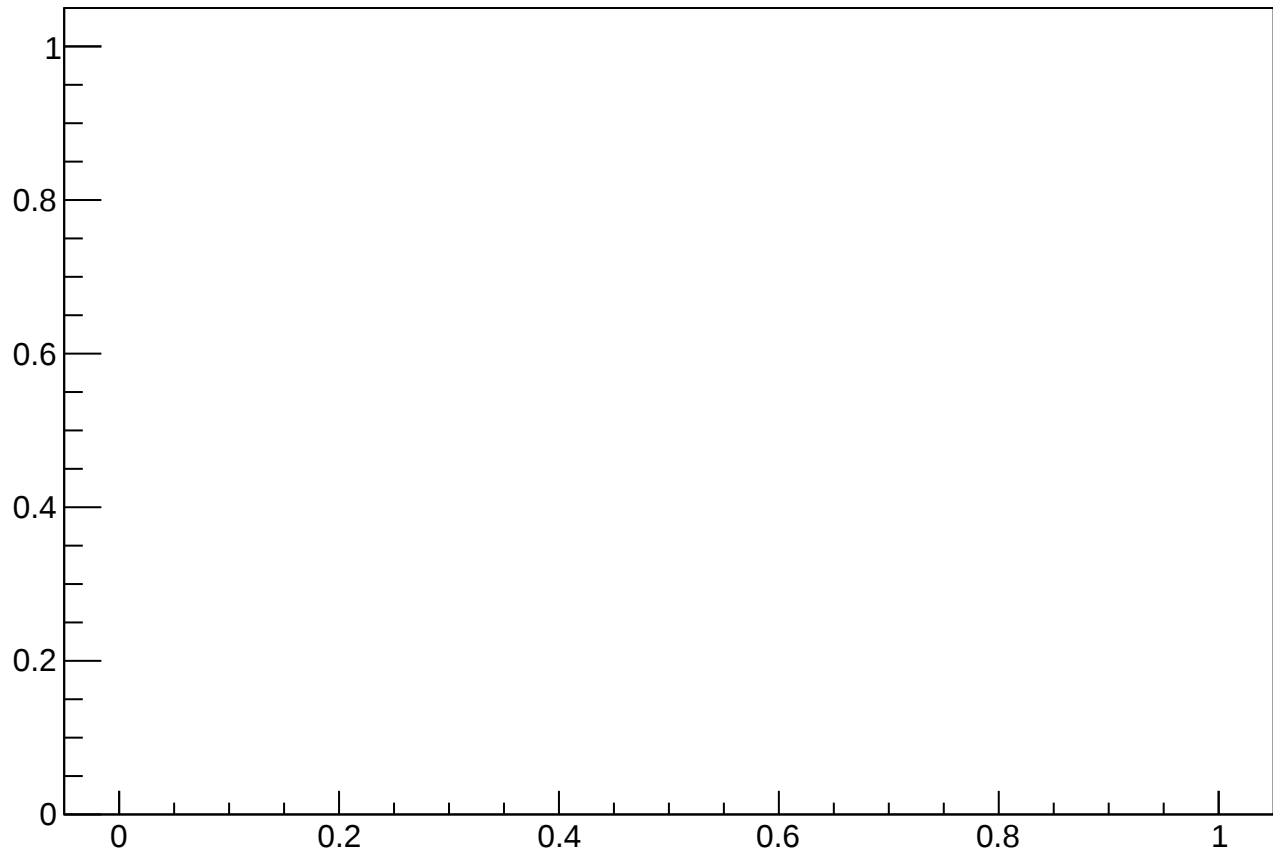
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

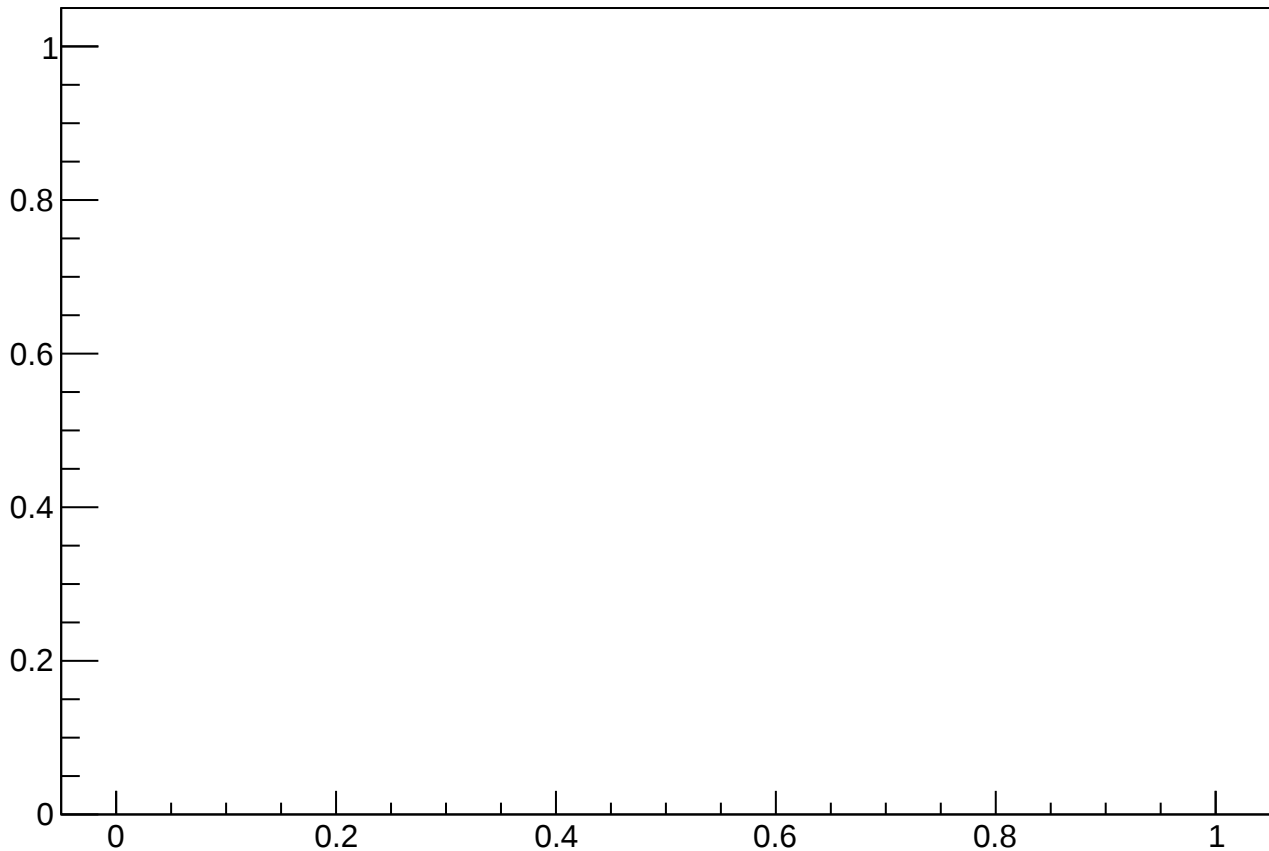
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

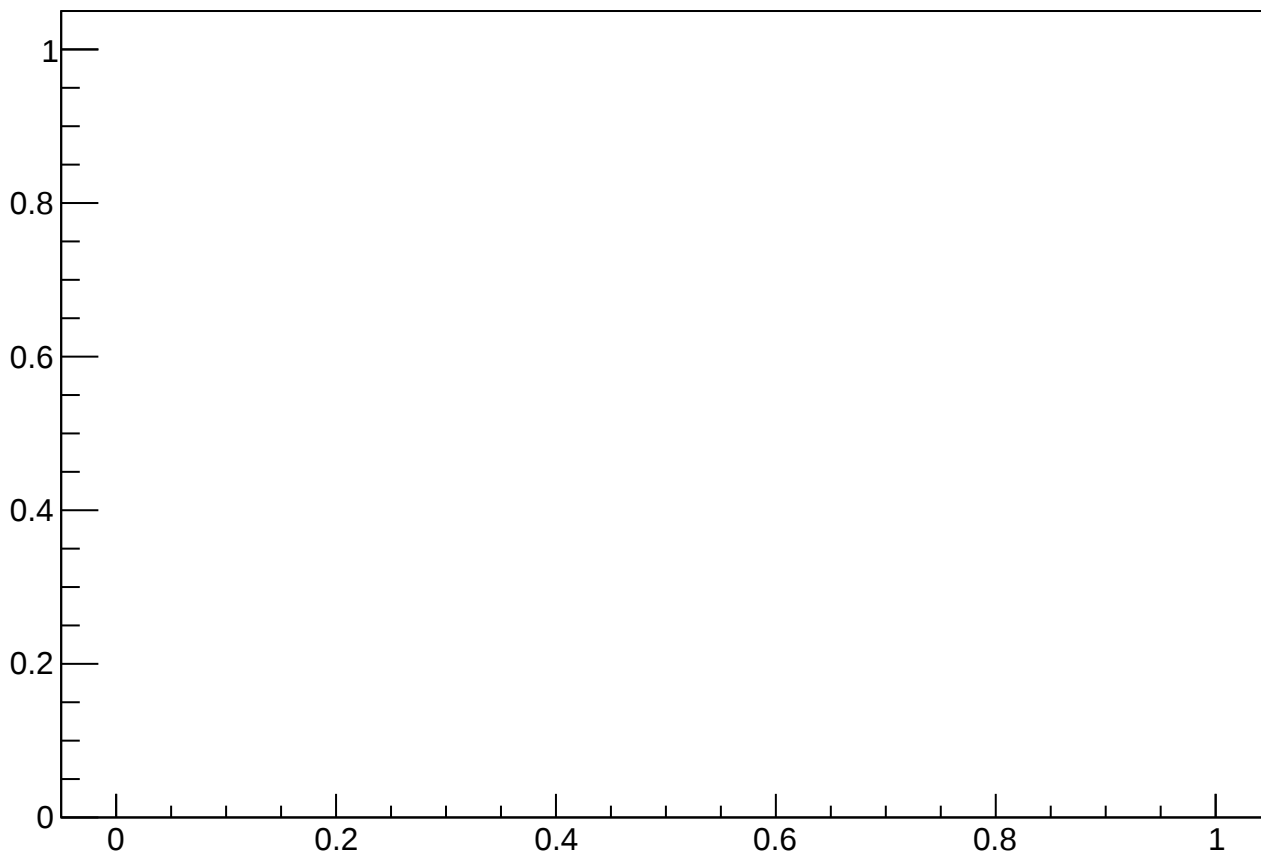
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

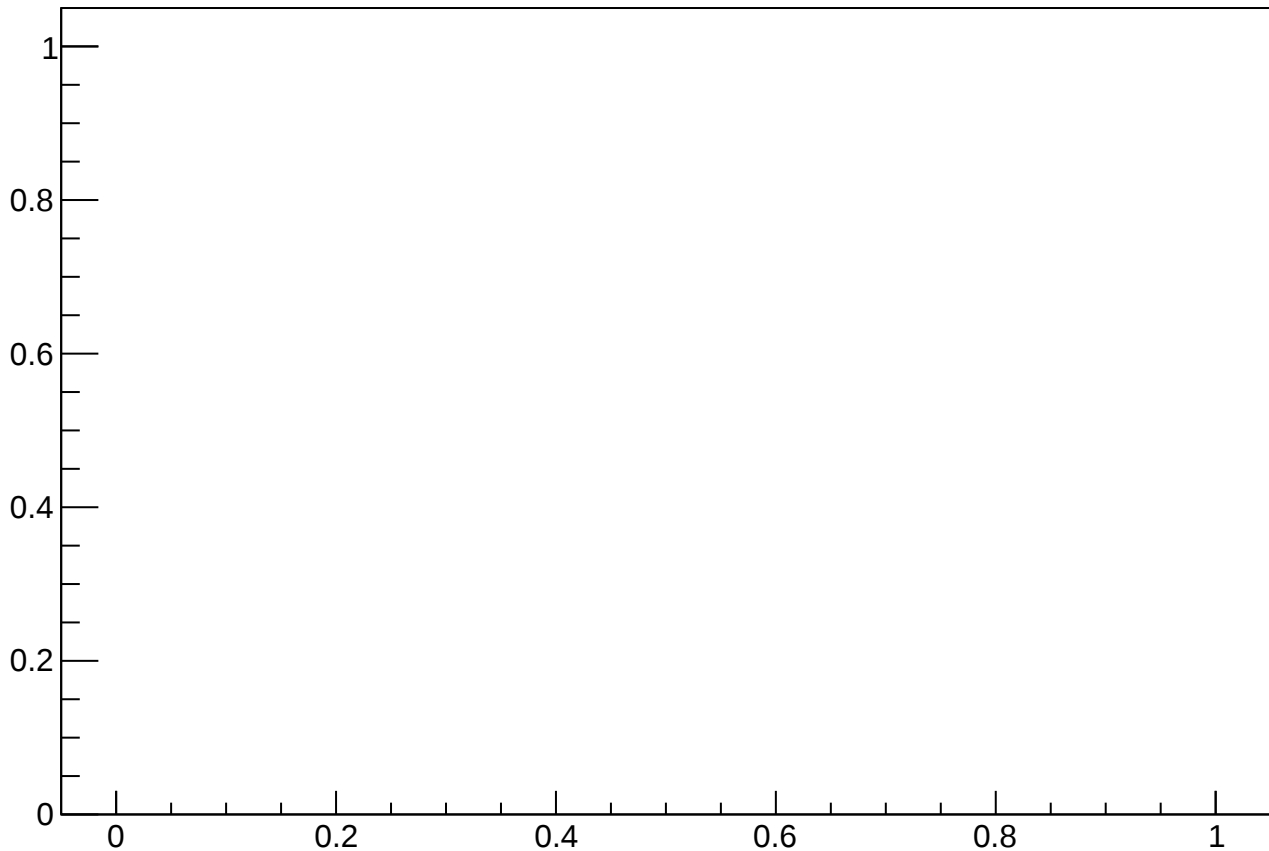
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

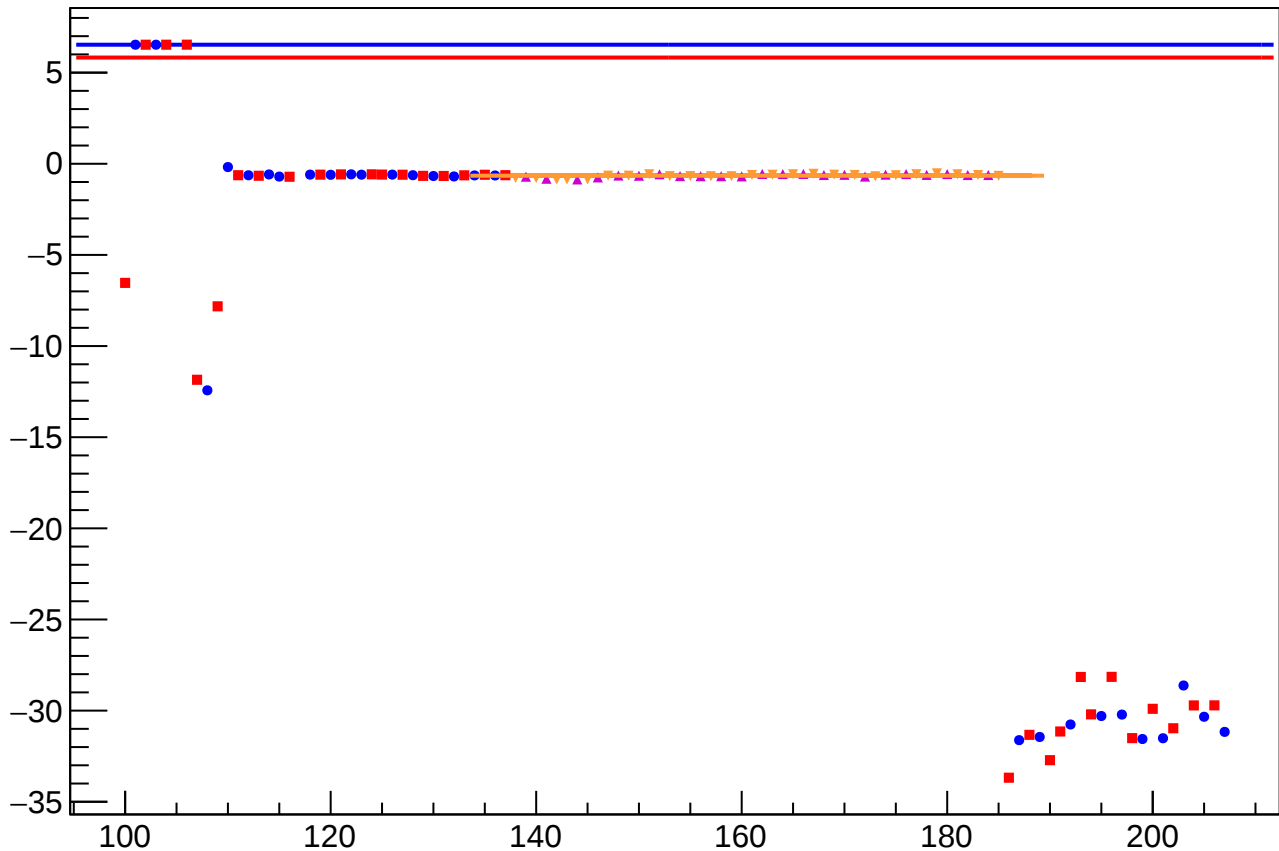
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 128122766194.0/26

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962464842936.0/30

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

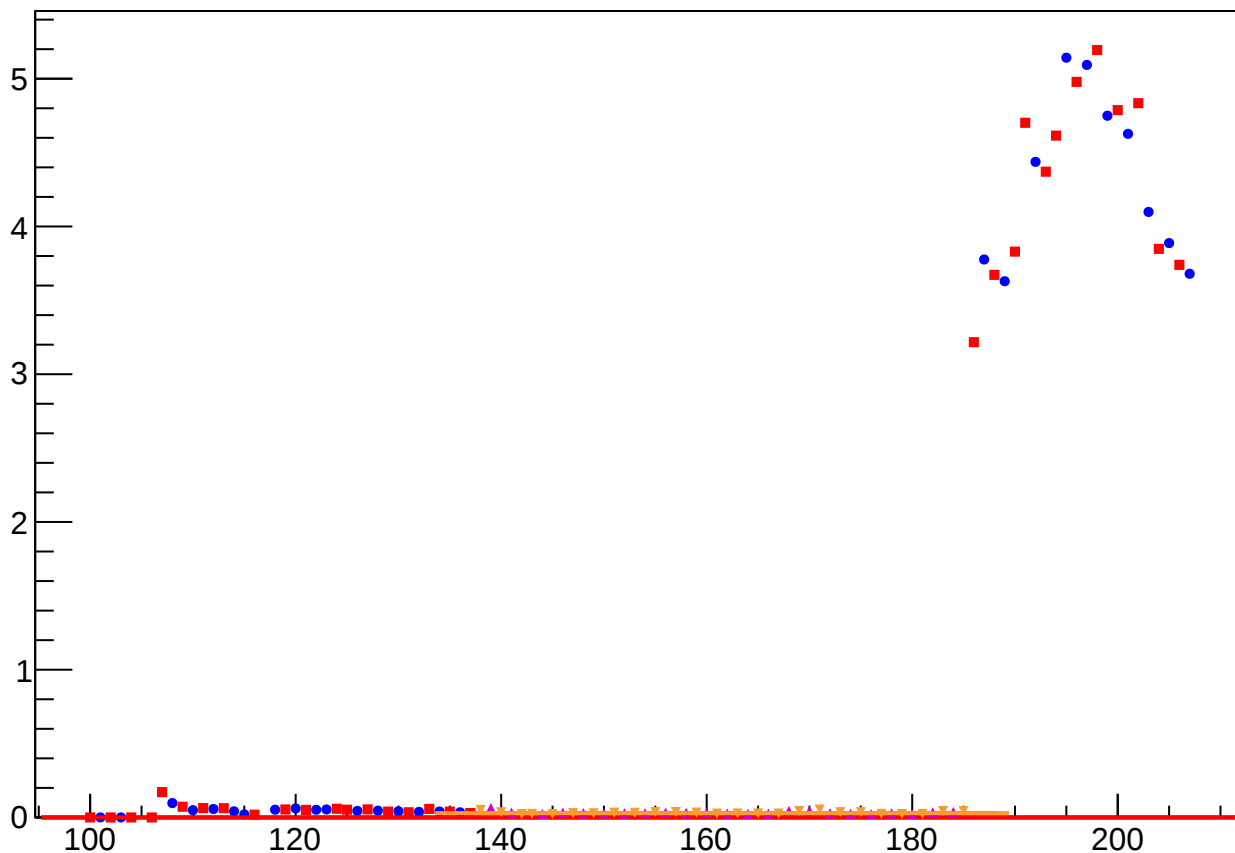
Right: 6.155+/-0.000 χ^2/NDF : 776094550309775.2/47

In: 6.530+/-0.000 χ^2/NDF : 962241334299.6/49

Out: 5.826+/-0.000 χ^2/NDF : 756673481721355.5/49

All: 6.153+/-0.000 χ^2/NDF : 77762798216086.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22780664.8/26

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24905472.9/30

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

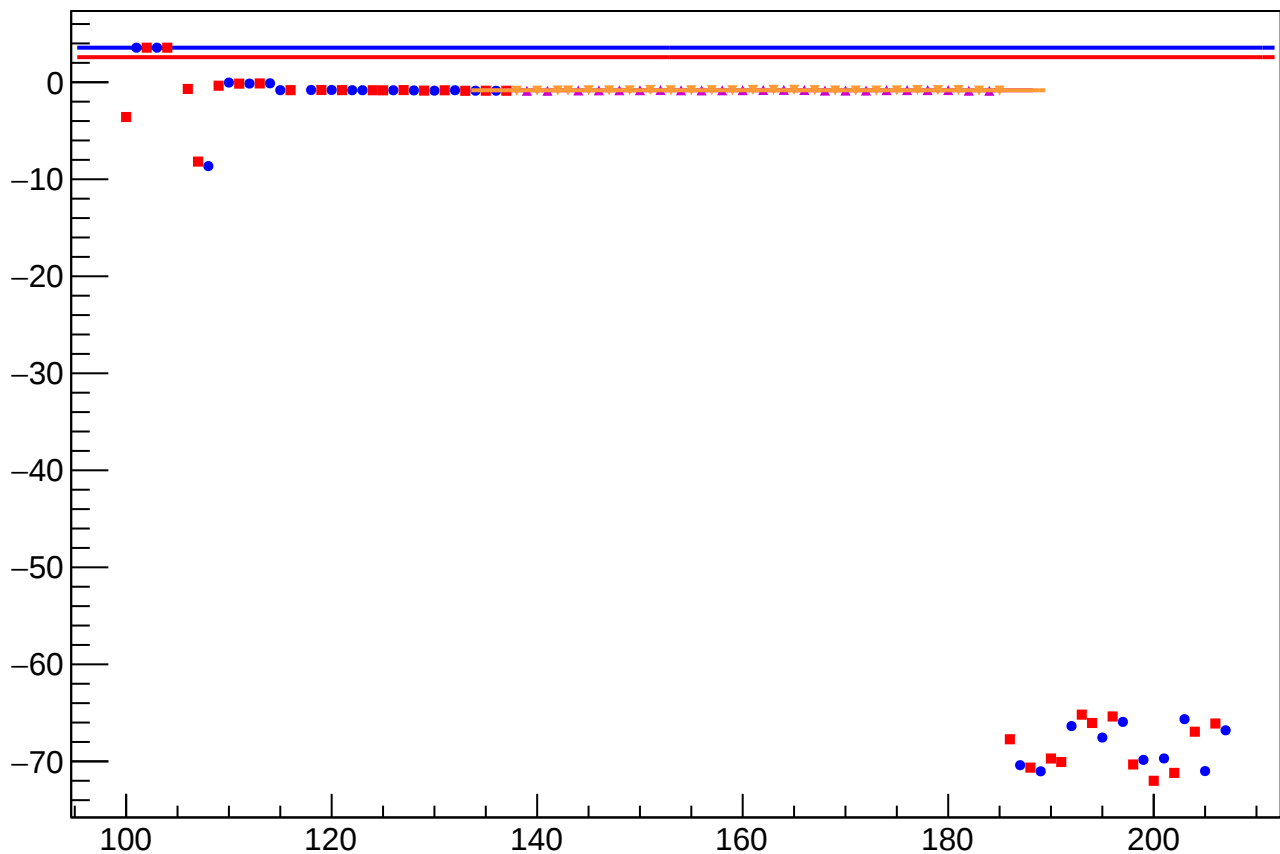
Right: 0.000+/-0.000 χ^2/NDF : 47686386.0/57

In: 0.000+/-0.000 χ^2/NDF :50958450.4/49

Out: 0.000+/-0.000 χ^2/NDF :54873497.2/55

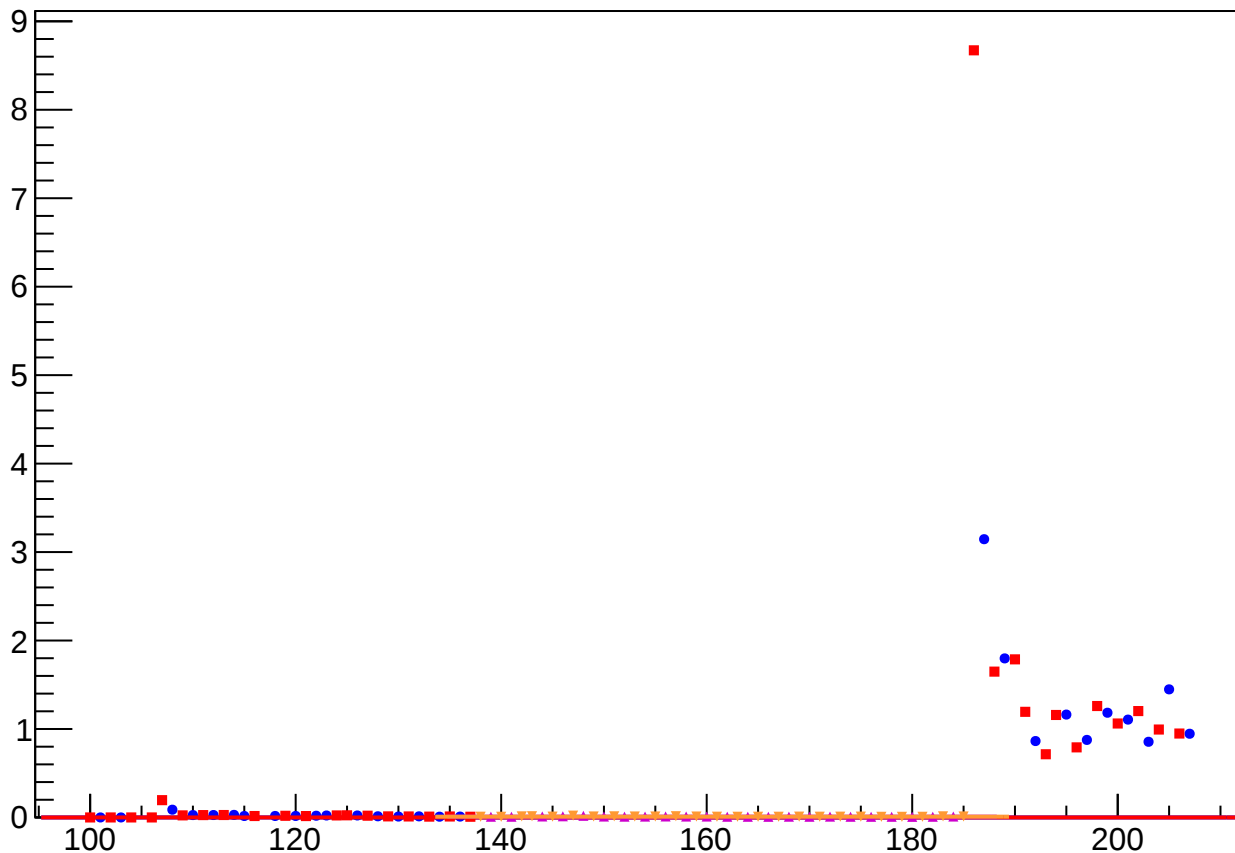
All: 0.000+/-0.000 χ^2/NDF : 105832374.2/105

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 506560596532.5/26	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382308187508135.0
Right Out: 2.583+/-0.000	χ^2/NDF : 1253530529791773.5/30	In: 3.560+/-0.000	χ^2/NDF : 4187120437351.8/49
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255761430097836.2
		All: 3.038+/-0.000	χ^2/NDF : 13880327469284.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21192629.9/26

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23048229.3/30

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

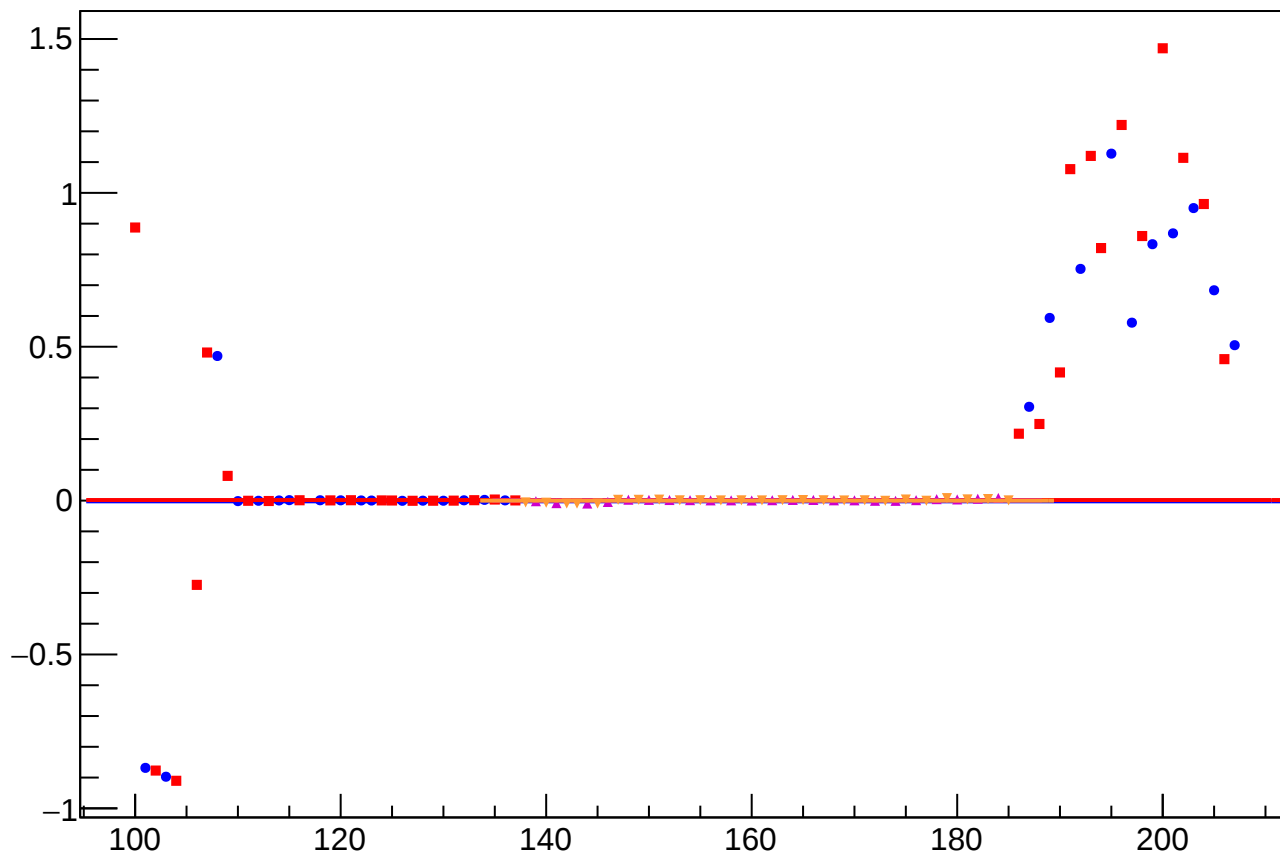
Right: 0.000+/-0.000 χ^2/NDF : 44241133.8/57

In: 0.000+/-0.000 χ^2/NDF :50989729.7/49

Out: 0.000+/-0.000 χ^2/NDF :54566331.6/55

All: 0.000+/-0.000 χ^2/NDF : 105556840.9/105

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796517813.4/26

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043668263.6/30

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12854333672.7/57

In: -0.000+/-0.000

χ^2/NDF : 9909424580.6/49

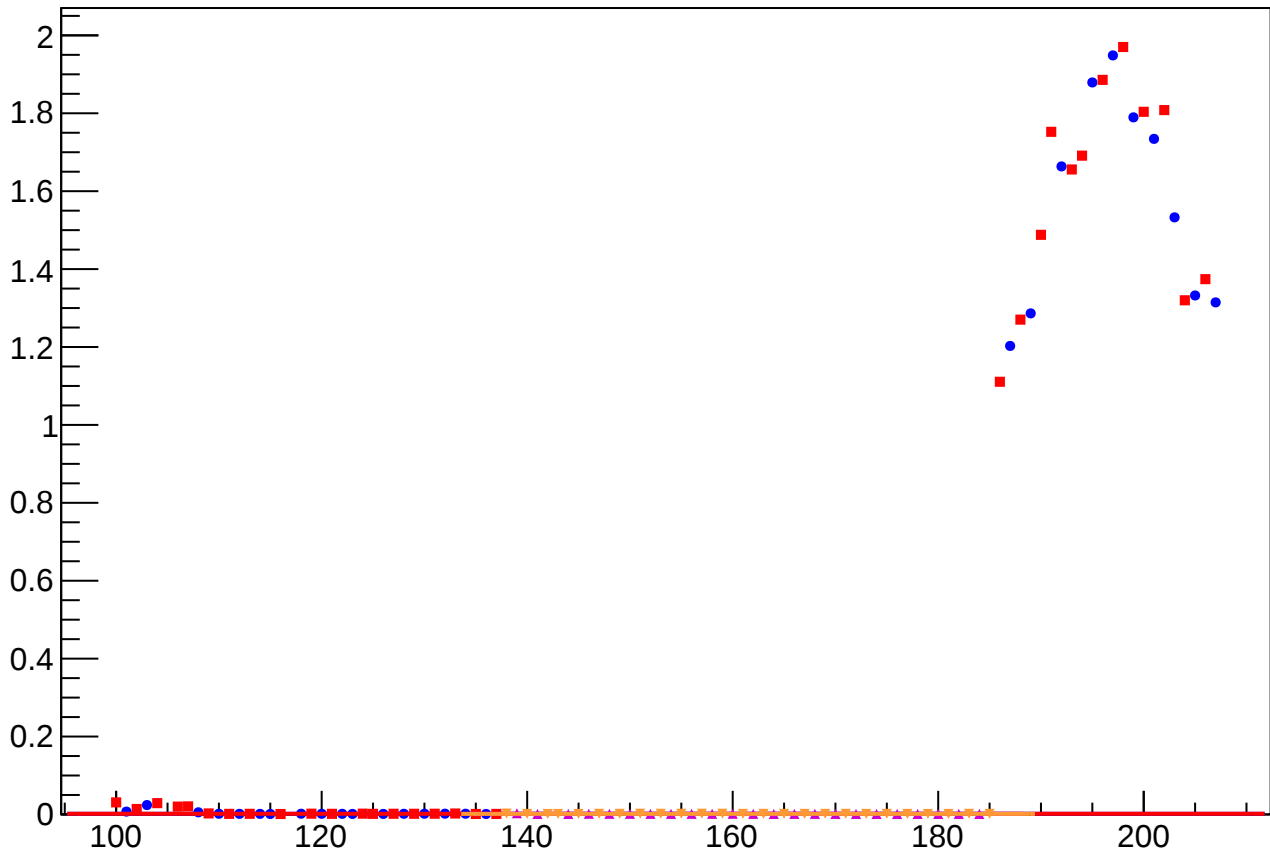
Out: 0.000+/-0.000

χ^2/NDF : 3199906318.6/55

All: 0.000+/-0.000

χ^2/NDF : 13109702397.9/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 15822171.0/26

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18559890.6/30

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

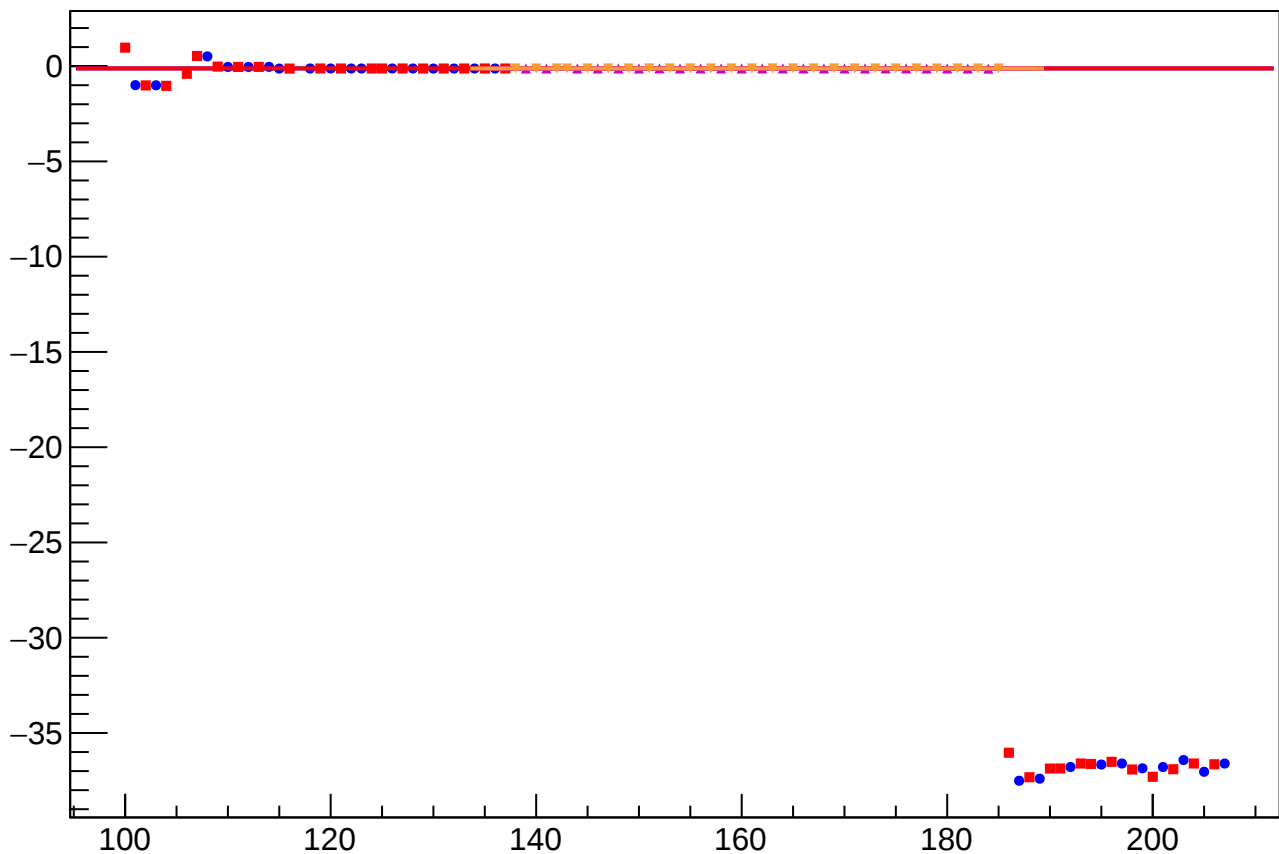
Right: 0.002+/-0.000 χ^2/NDF : 34390031.5/57

In: 0.002+/-0.000 χ^2/NDF : 16534651.4/49

Out: 0.002+/-0.000 χ^2/NDF : 19235629.5/55

All: 0.002+/-0.000 χ^2/NDF : 35770911.9/105

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 65453388458.9/26

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 68419030463.0/30

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

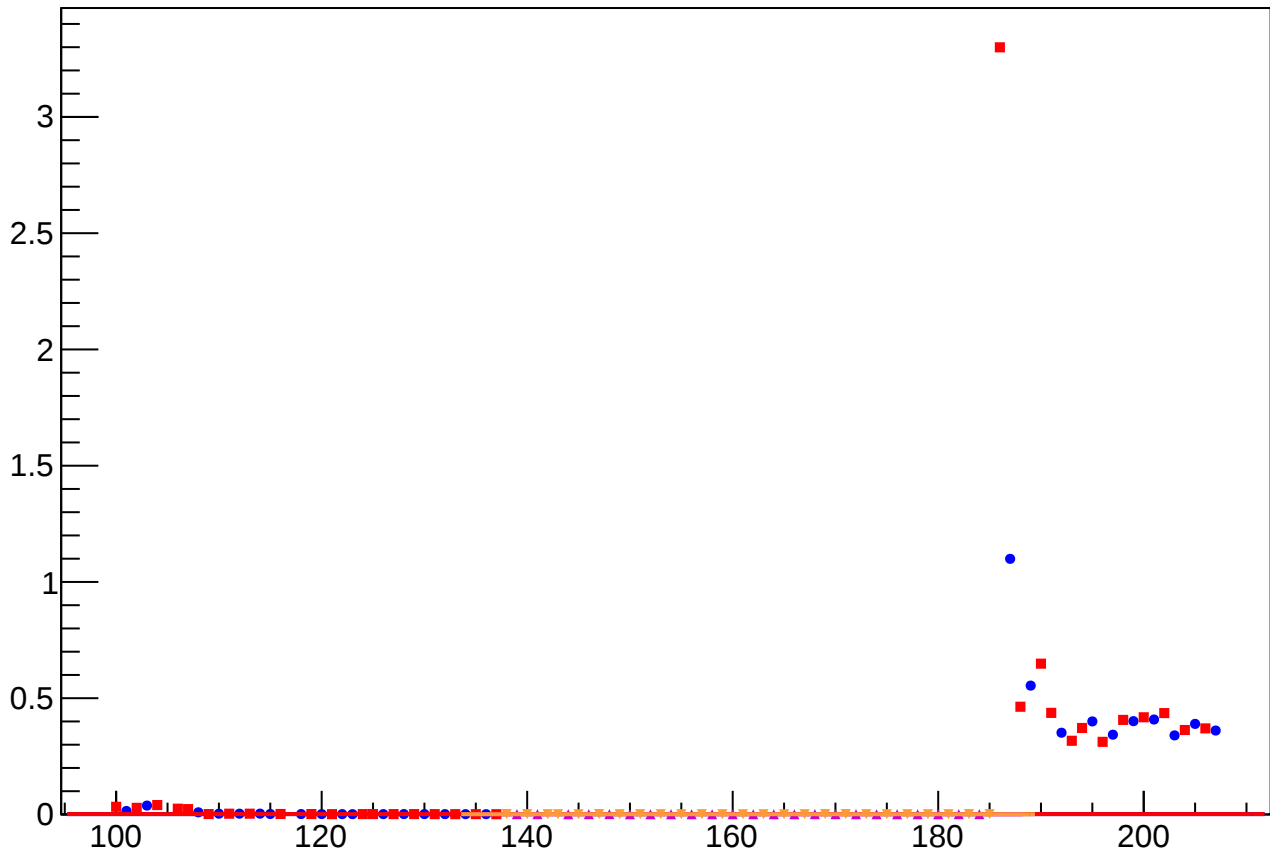
Right: -0.119+/-0.000 χ^2/NDF : 133894693117.1/57

In: -0.121+/-0.000 χ^2/NDF : 65506666822.5/49

Out: -0.121+/-0.000 χ^2/NDF : 68515734512.2/55

All: -0.121+/-0.000 χ^2/NDF : 134023351662.4

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16164289.9/26

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18510883.3/30

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

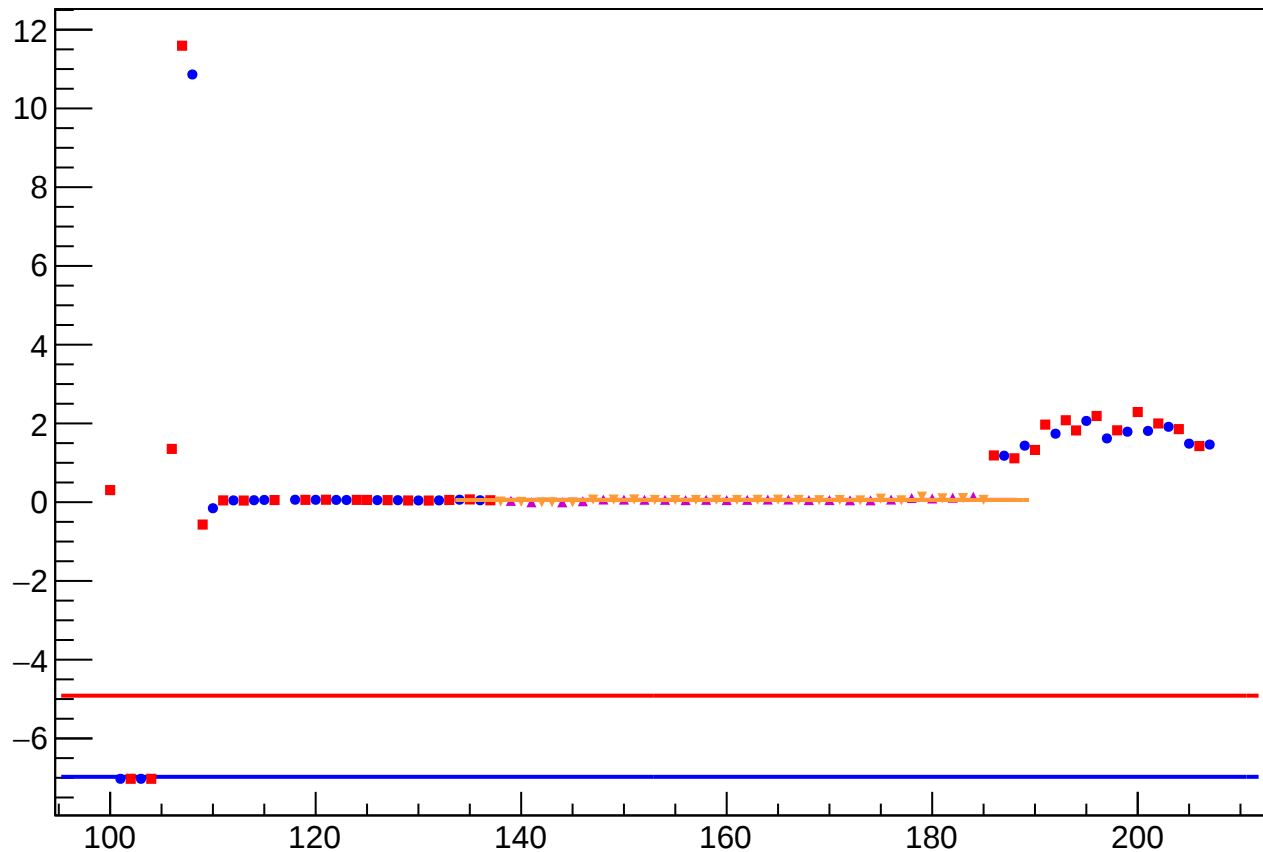
Right: 0.002+/-0.000 χ^2/NDF : 34675214.3/57

In: 0.001+/-0.000 χ^2/NDF :18290509.1/49

Out: 0.001+/-0.000 χ^2/NDF :21054038.8/55

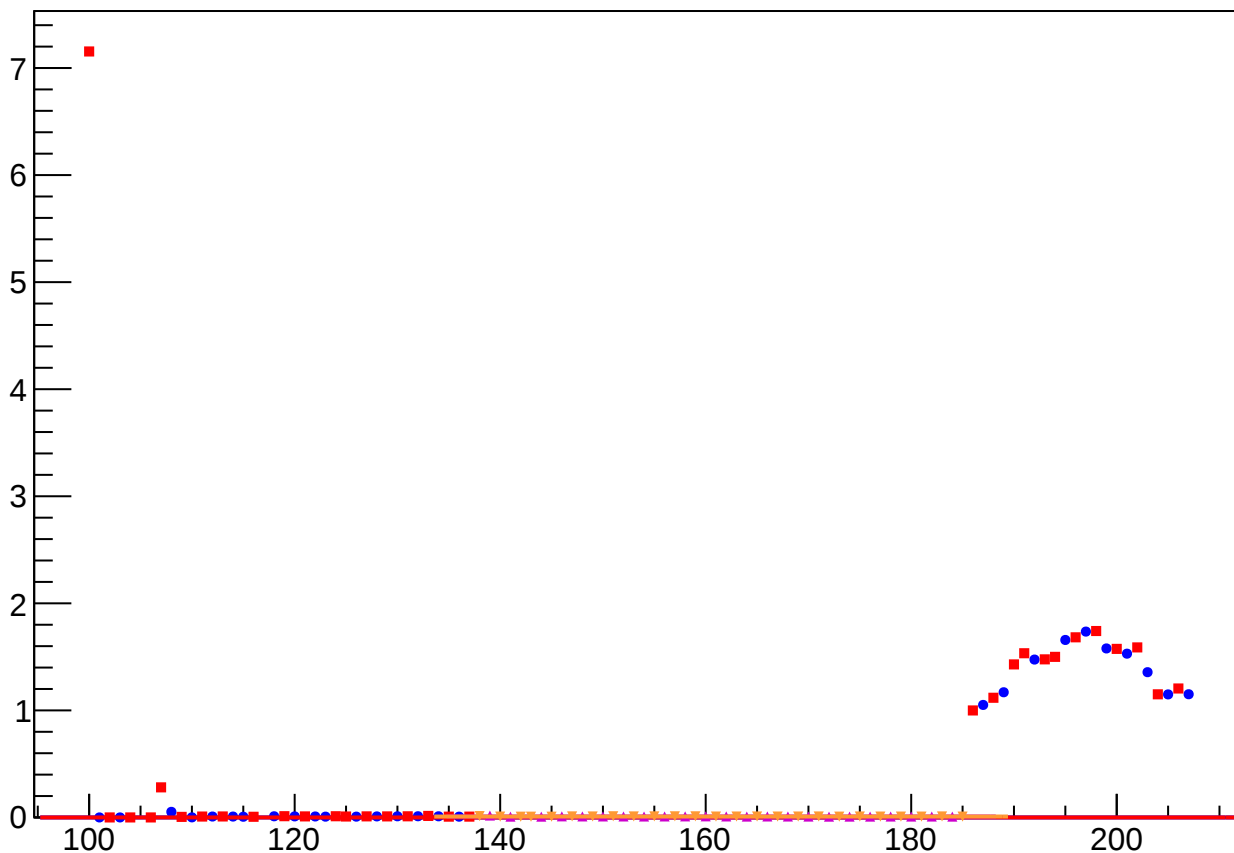
All: 0.001+/-0.000 χ^2/NDF : 39346682.4/105

yield_cav4dX_mean vs Slug, Sign Corrected

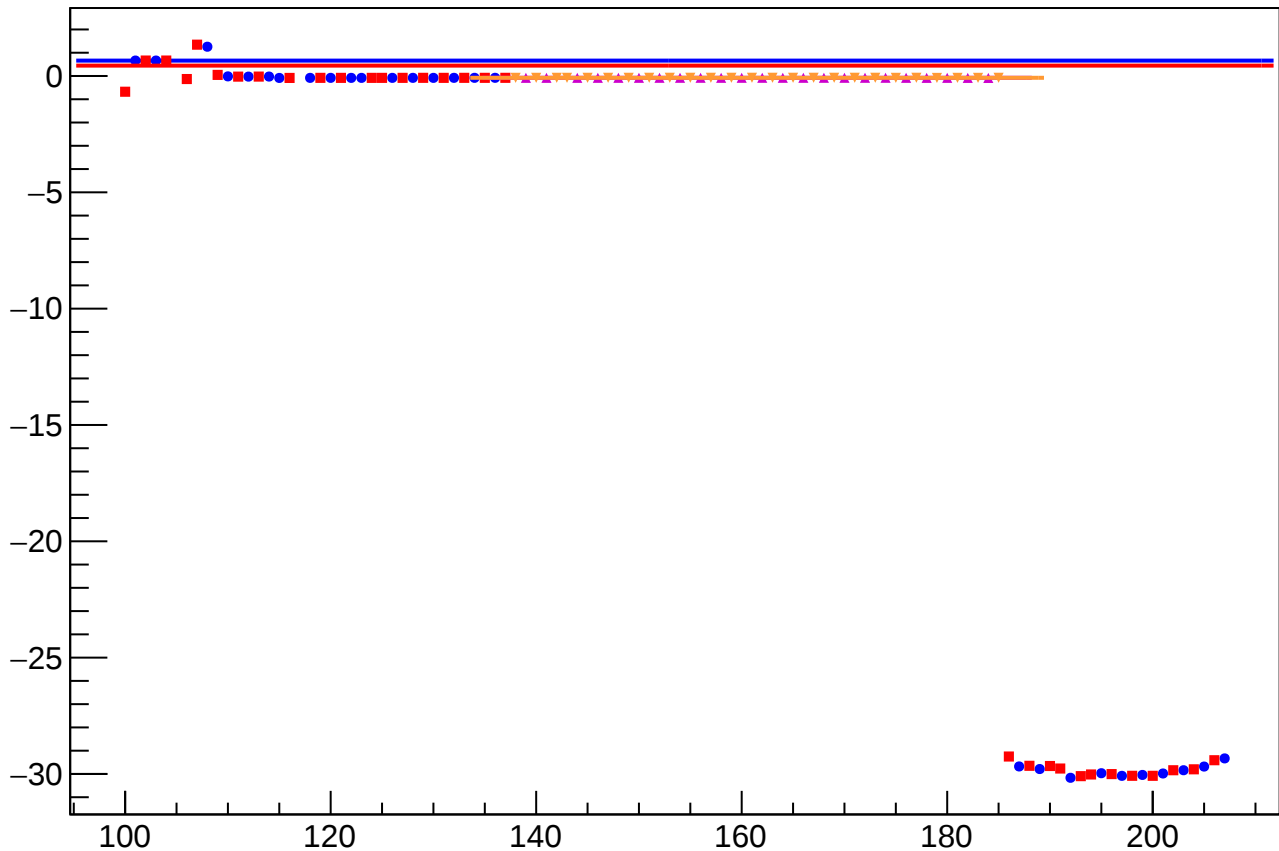


Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762722615382.2/26$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303641505530.4$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348716267241.5/30$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605248414658.1/49$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175402522760.0/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435816040960.0/100$

yield_cav4dX_rms vs Slug, Sign Corrected

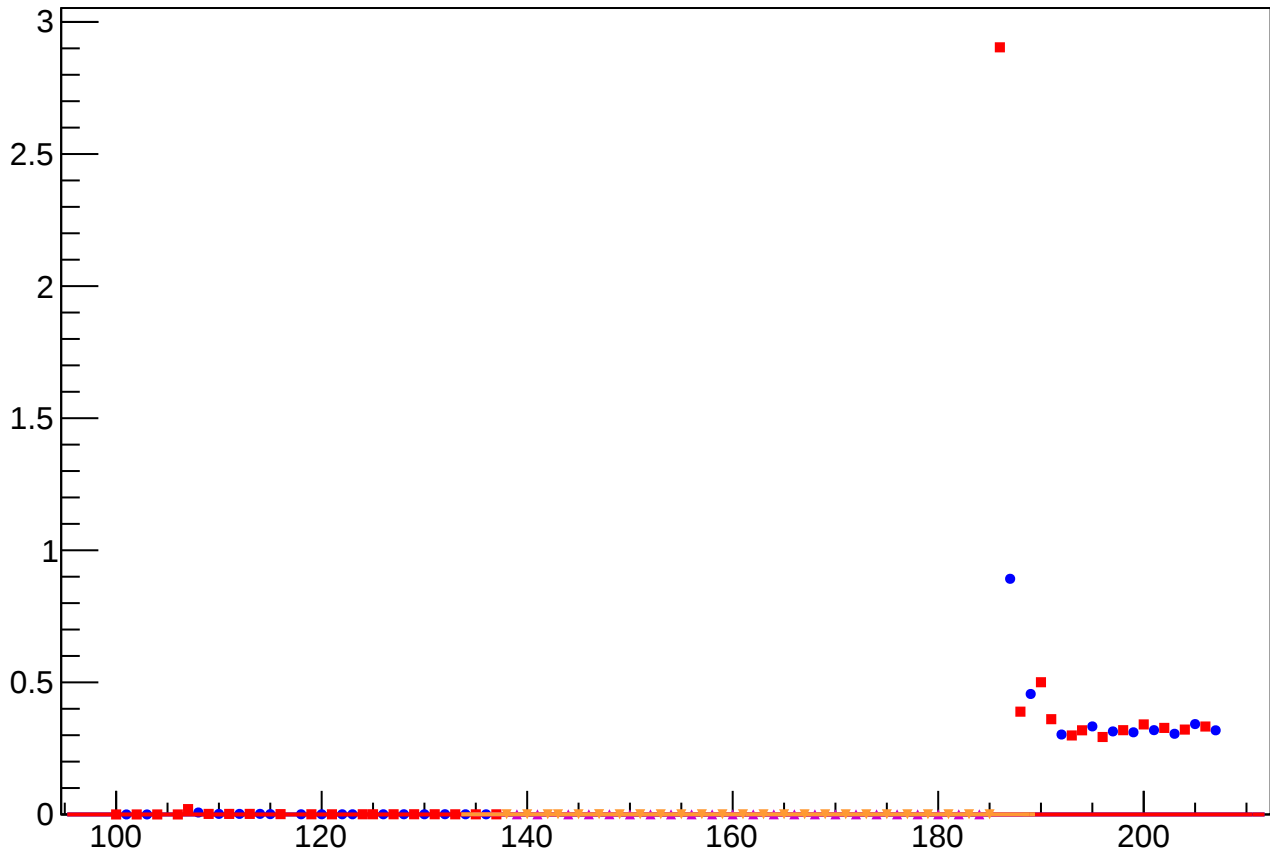


yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5645779089820.2/26	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 : 474053778341870.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405478812104000.3/30	In: 0.647+/-0.000	χ^2/NDF : 33905712388009.6/49
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420673377603362.1/5
		All: 0.537+/-0.000	χ^2/NDF : 51610373827337

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23571465.3/26

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24866208.1/30

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

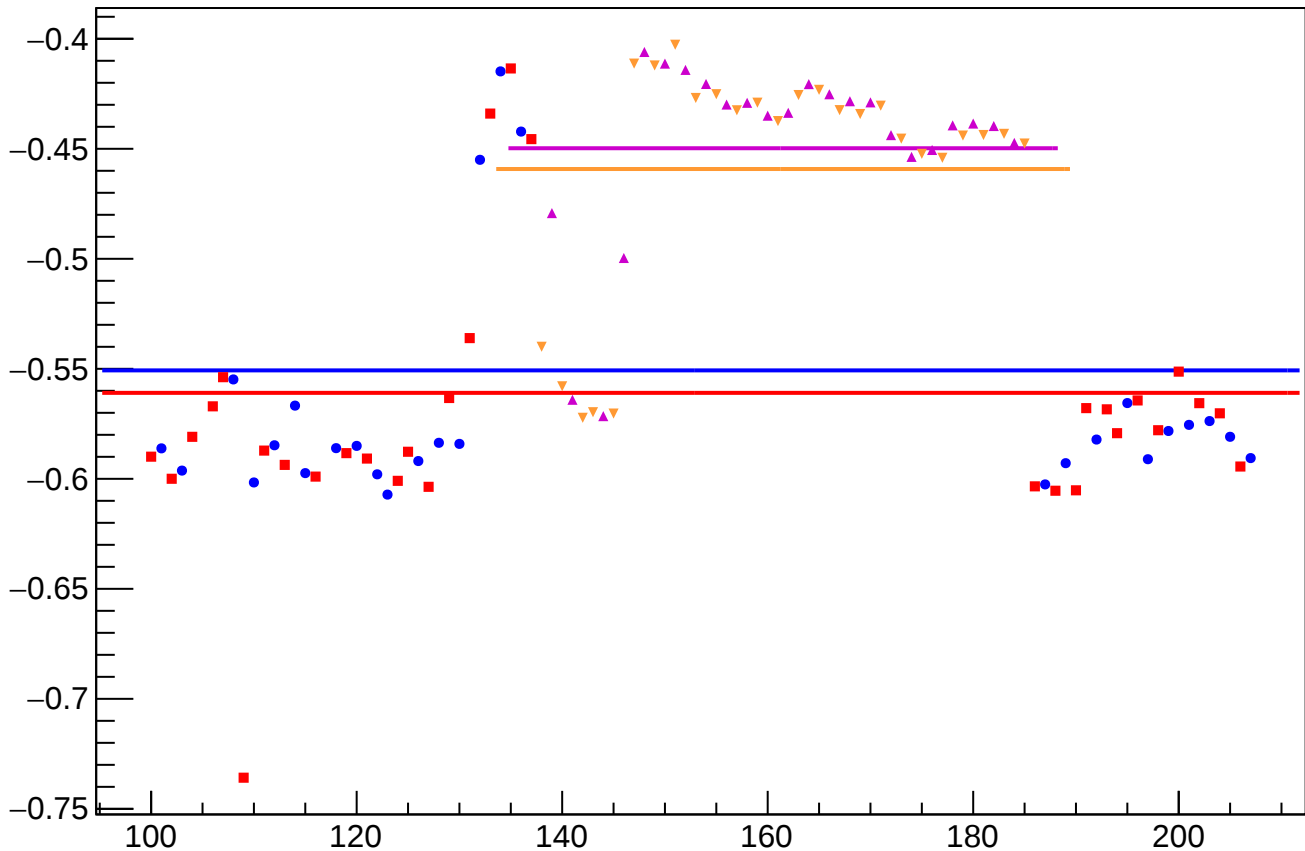
Right: 0.000+/-0.000 χ^2/NDF : 48437679.9/57

In: 0.000+/-0.000 χ^2/NDF :54549603.5/49

Out: 0.000+/-0.000 χ^2/NDF :57579875.3/55

All: 0.000+/-0.000 χ^2/NDF : 112129878.6/105

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.551+/-0.000 χ^2/NDF : 48532398.4/26

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.561+/-0.000 χ^2/NDF : 65637300.0/30

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

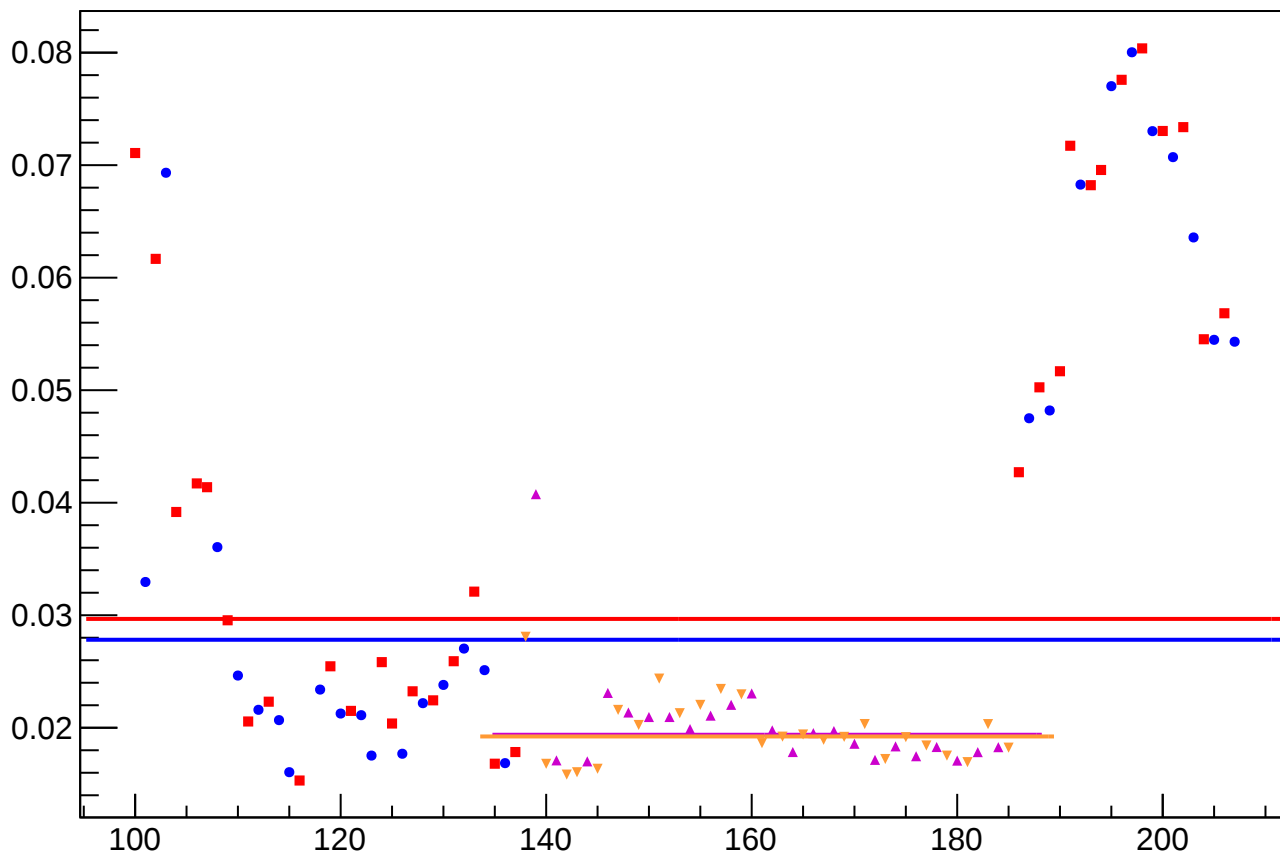
Right: -0.556+/-0.000 χ^2/NDF : 114794239.2/57

In: -0.474+/-0.000 χ^2/NDF : 217905569.1/49

Out: -0.482+/-0.000 χ^2/NDF : 274225730.5/55

All: -0.478+/-0.000 χ^2/NDF : 493718188.7/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6221965.6/26

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6452183.2/30

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

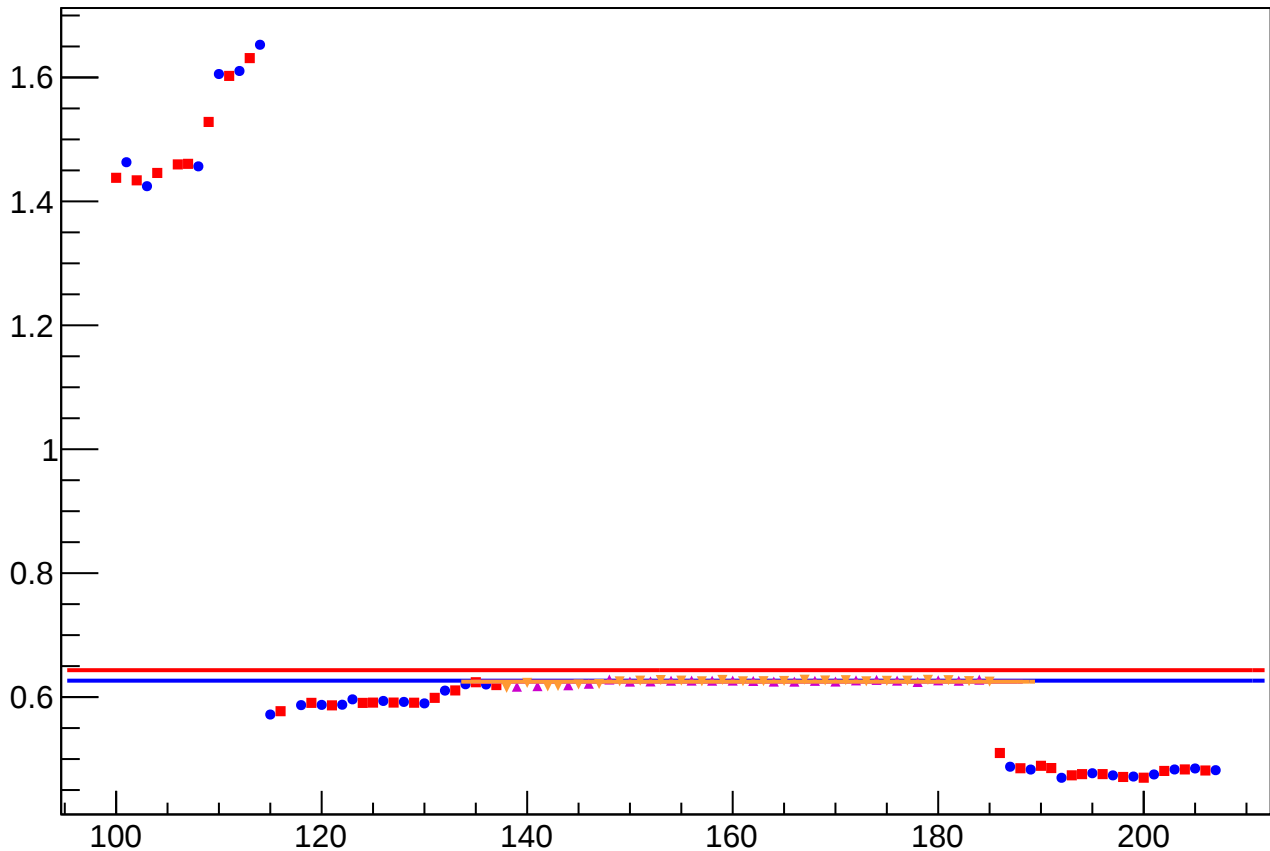
Right: 0.029+/-0.000 χ^2/NDF : 12715234.4/57

In: 0.021+/-0.000 χ^2/NDF : 8181937.3/49

Out: 0.022+/-0.000 χ^2/NDF : 8952137.3/55

All: 0.022+/-0.000 χ^2/NDF : 17135397.2/105

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.626+/-0.000 χ^2/NDF : 5020574891.6/26

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.643+/-0.000 χ^2/NDF : 6048627339.8/30

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

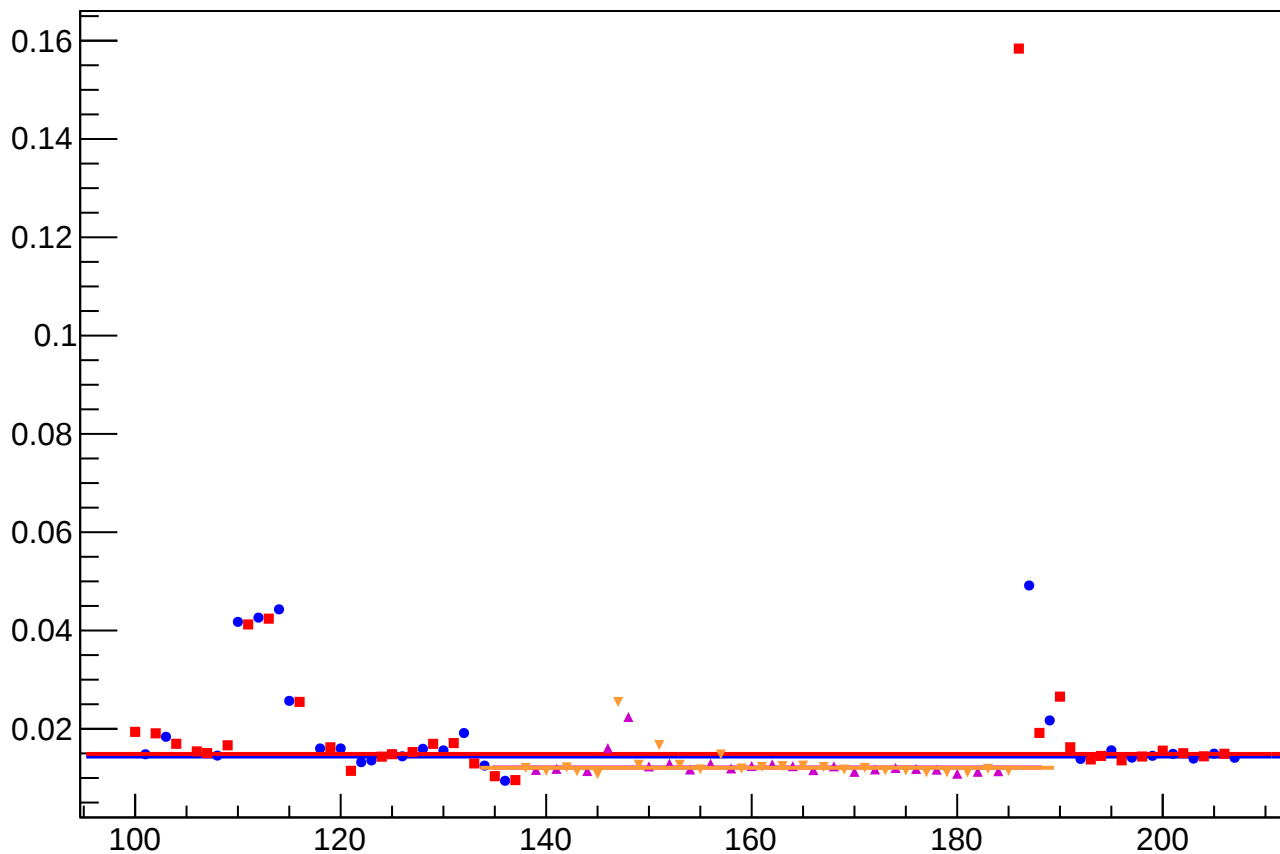
Right: 0.635+/-0.000 χ^2/NDF : 11077748825.5/57

In: 0.625+/-0.000 χ^2/NDF :5021819600.0/49

Out: 0.631+/-0.000 χ^2/NDF :6063804648.0/55

All: 0.628+/-0.000 χ^2/NDF : 11088418252.5/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1646044.6/26

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2073759.0/30

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

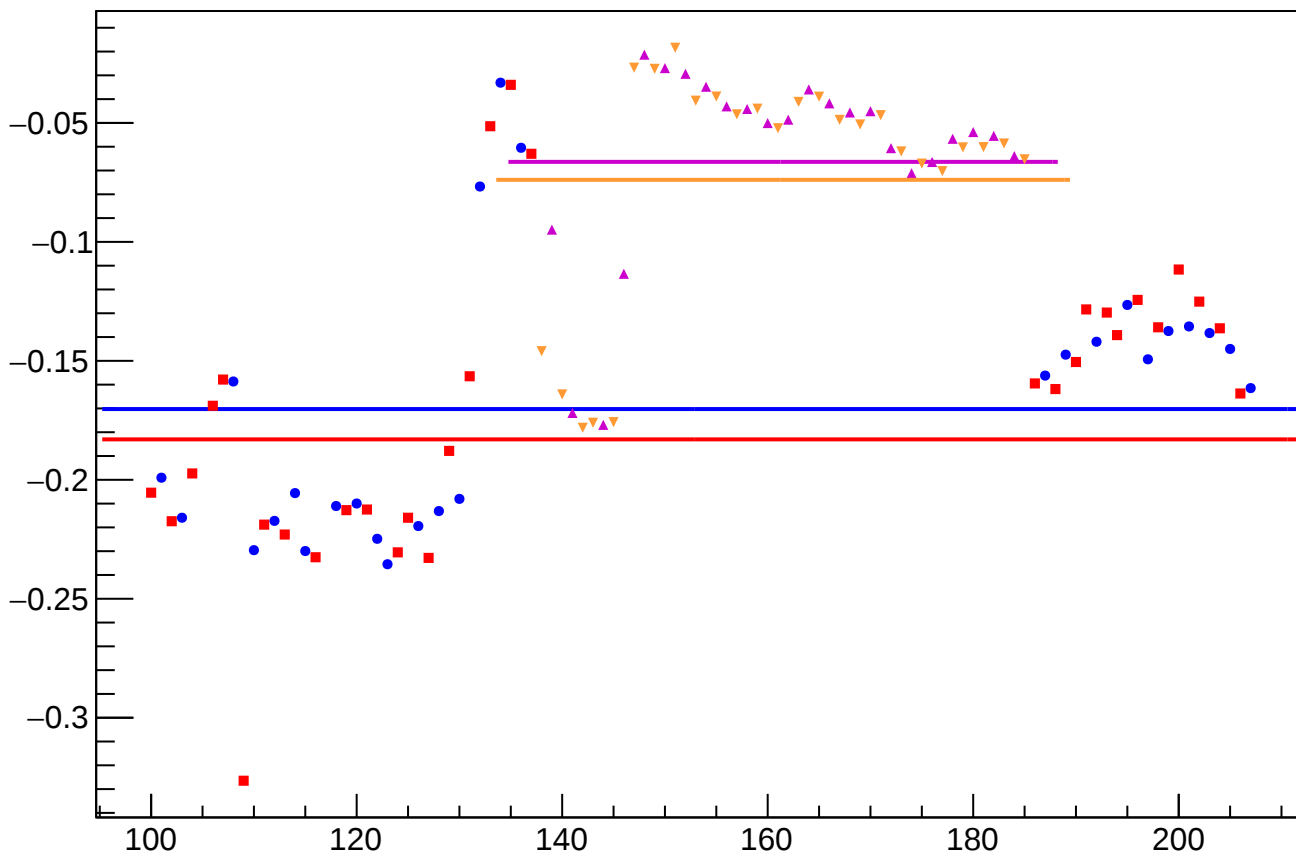
Right: 0.015+/-0.000 χ^2/NDF : 3736219.7/57

In: 0.013+/-0.000 χ^2/NDF : 2523629.9/49

Out: 0.013+/-0.000 χ^2/NDF : 3366304.2/55

All: 0.013+/-0.000 χ^2/NDF : 5891790.9/105

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.170+/-0.000 χ^2/NDF : 68395533.0/26

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85890993.6/30

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

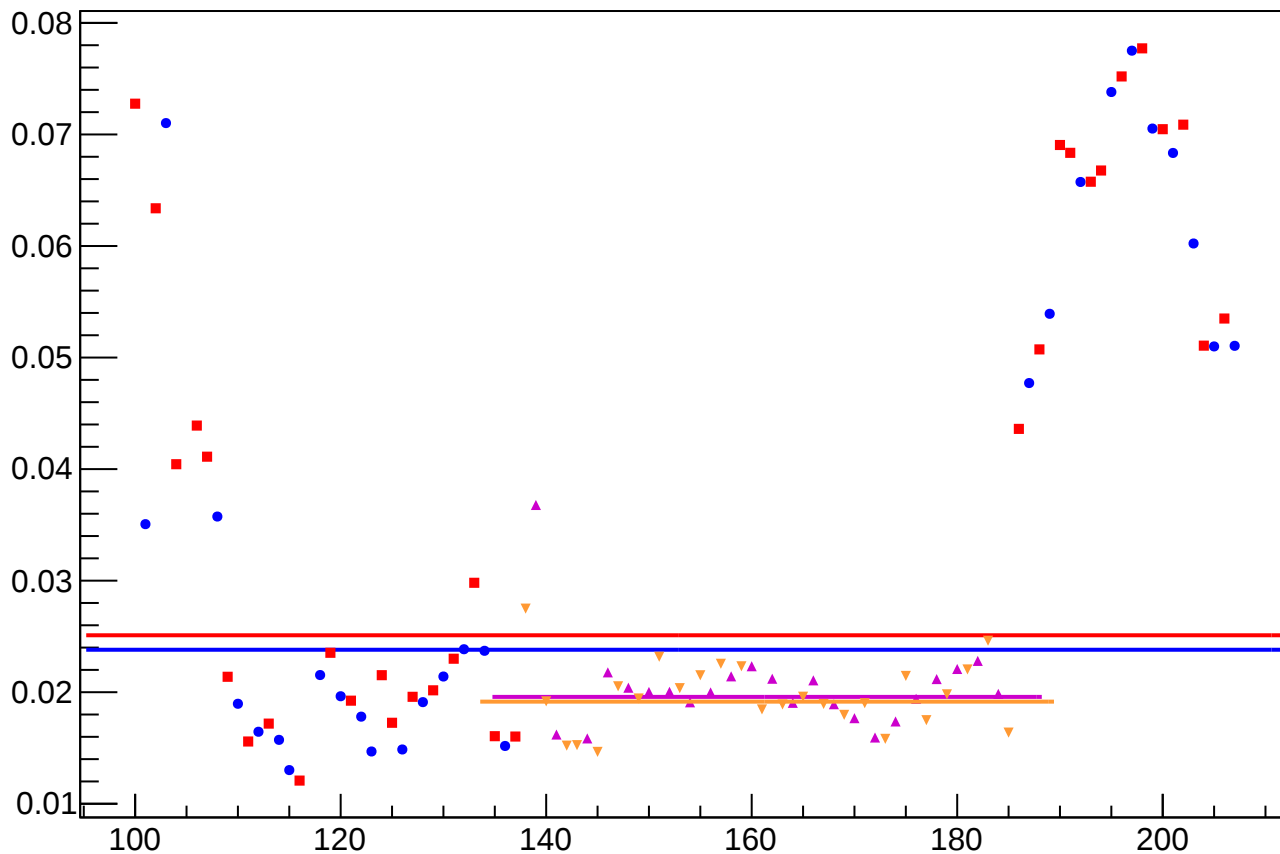
Right: -0.177+/-0.000 χ^2/NDF : 155551401.5/57

In: -0.097+/-0.000 χ^2/NDF : 263961682.8/49

Out: -0.104+/-0.000 χ^2/NDF : 327754050.8/55

All: -0.100+/-0.000 χ^2/NDF : 592948987.9/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7243061.7/26

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 641027.3/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7840302.6/30

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF: 651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

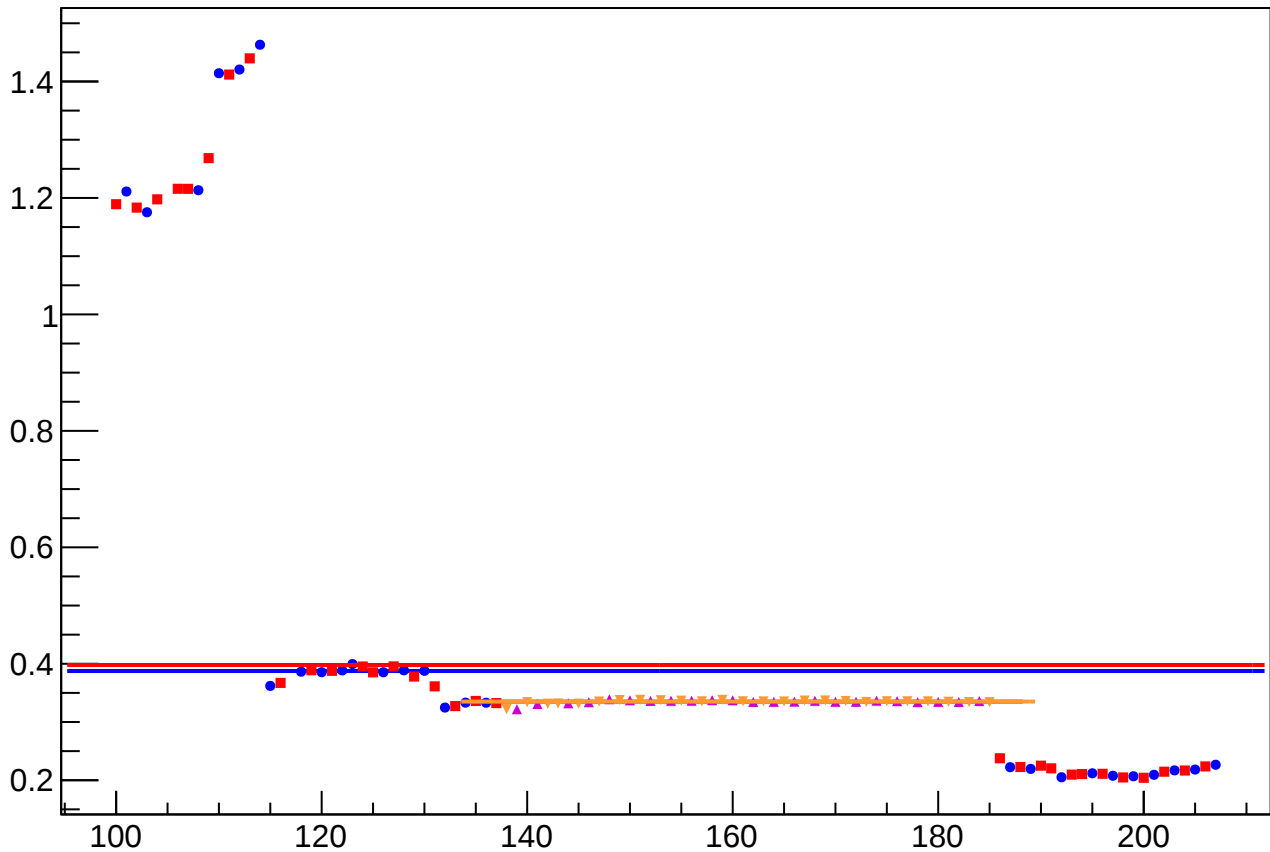
Right: 0.024 $\pm$ 0.000 χ^2 /NDF: 15109603.8/57

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 8289032.9/49

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 9278332.3/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17567485.5/105

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2 /NDF: 7417338567.9/26

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1153956.7/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 8528404288.5/30

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1198302.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2352818.7/47

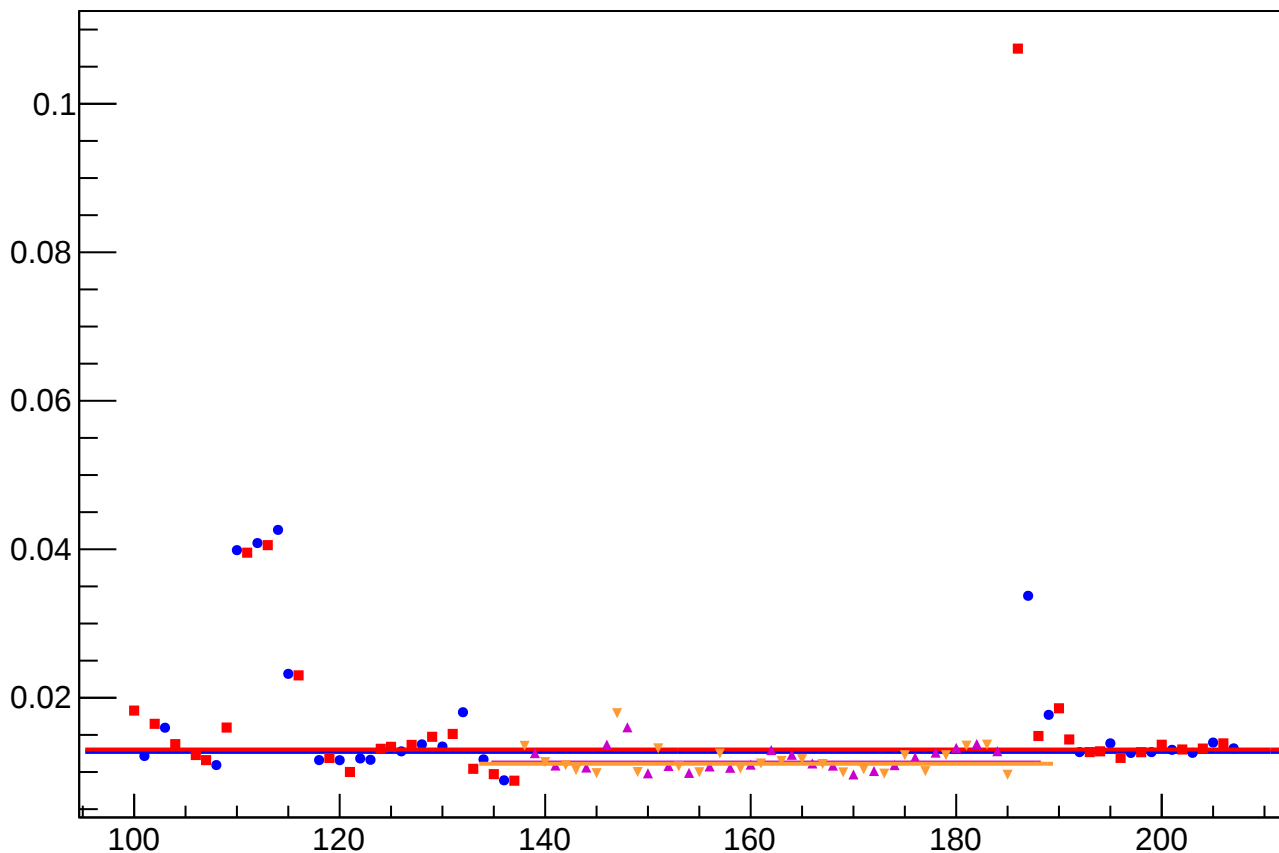
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 15949871304.1/57

In: 0.354 $\pm$ 0.000 χ^2 /NDF:7552079993.4/49

Out: 0.357 $\pm$ 0.000 χ^2 /NDF:8728369374.0/55

All: 0.356 $\pm$ 0.000 χ^2 /NDF: 16281410361.5/111

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1526487.4/26

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1940293.0/30

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

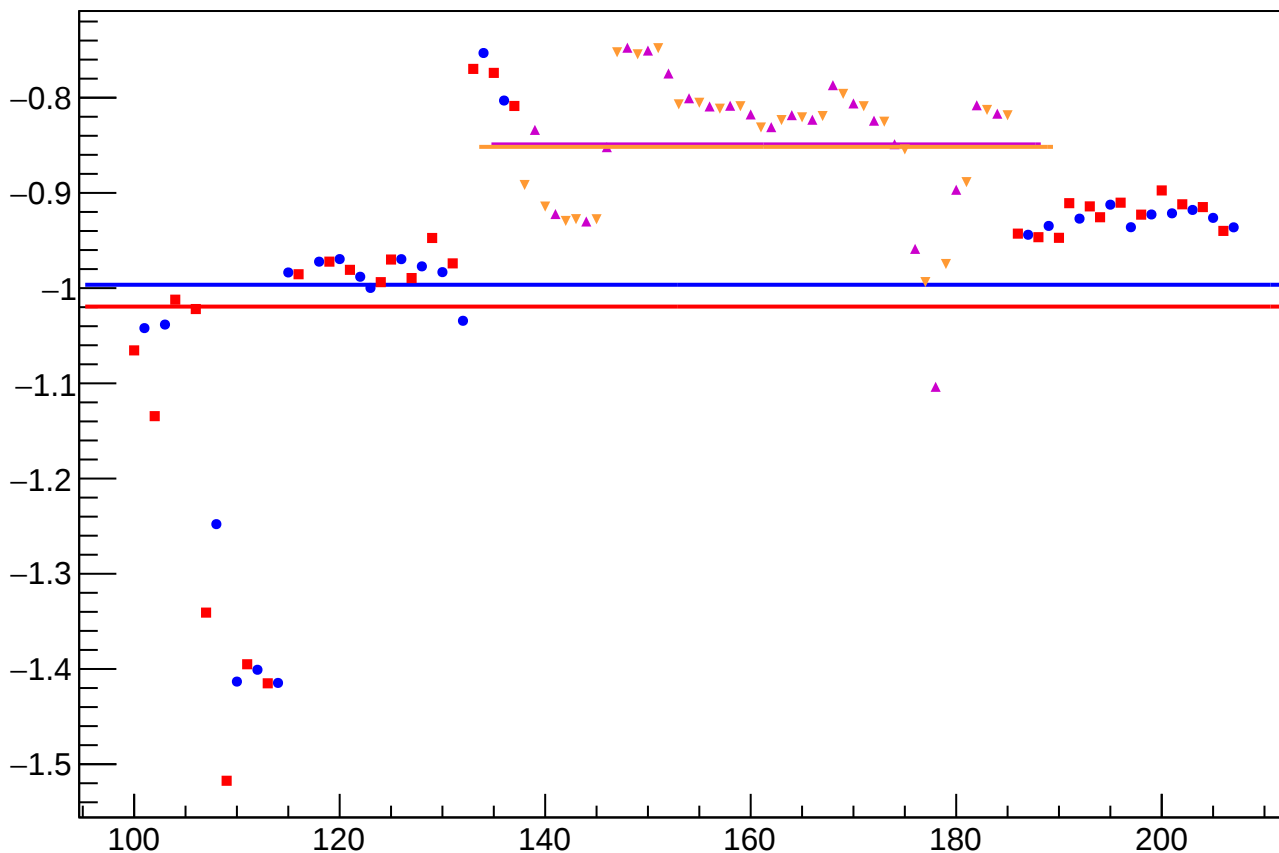
Right: 0.013+/-0.000 χ^2/NDF : 3474586.5/57

In: 0.012+/-0.000 χ^2/NDF : 2228197.3/49

Out: 0.012+/-0.000 χ^2/NDF : 2917076.8/55

All: 0.012+/-0.000 χ^2/NDF : 5145291.1/105

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.996 ± 0.000 $\chi^2/\text{NDF}: 403363365.3/26$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.019 ± 0.000 $\chi^2/\text{NDF}: 556834044.4/30$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

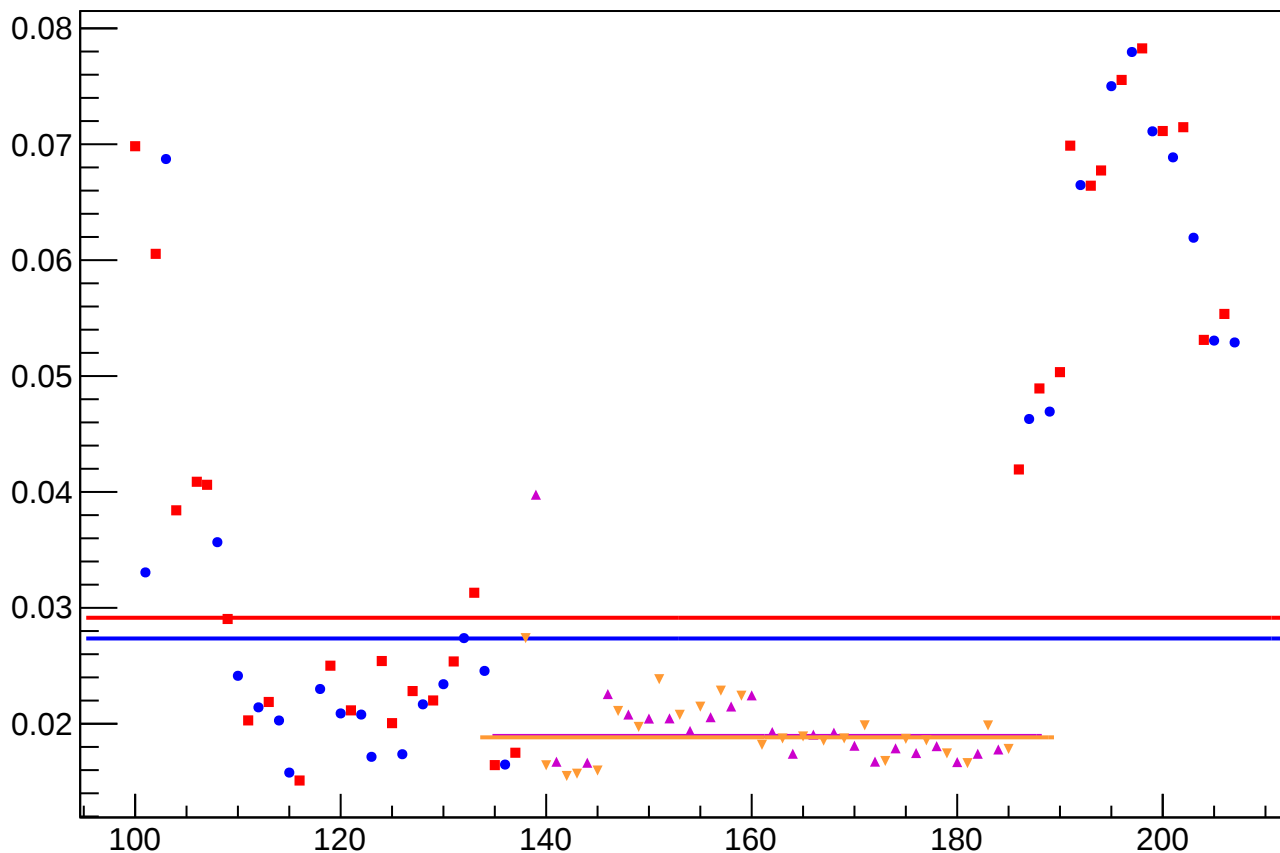
Right: -1.008 ± 0.000 $\chi^2/\text{NDF}: 963460589.3/57$

In: -0.885 ± 0.000 $\chi^2/\text{NDF}: 866221360.0/49$

Out: -0.890 ± 0.000 $\chi^2/\text{NDF}: 1013860464.2/55$

All: -0.887 ± 0.000 $\chi^2/\text{NDF}: 1880708233.2/101$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 6185688.7/26

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6388586.4/30

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

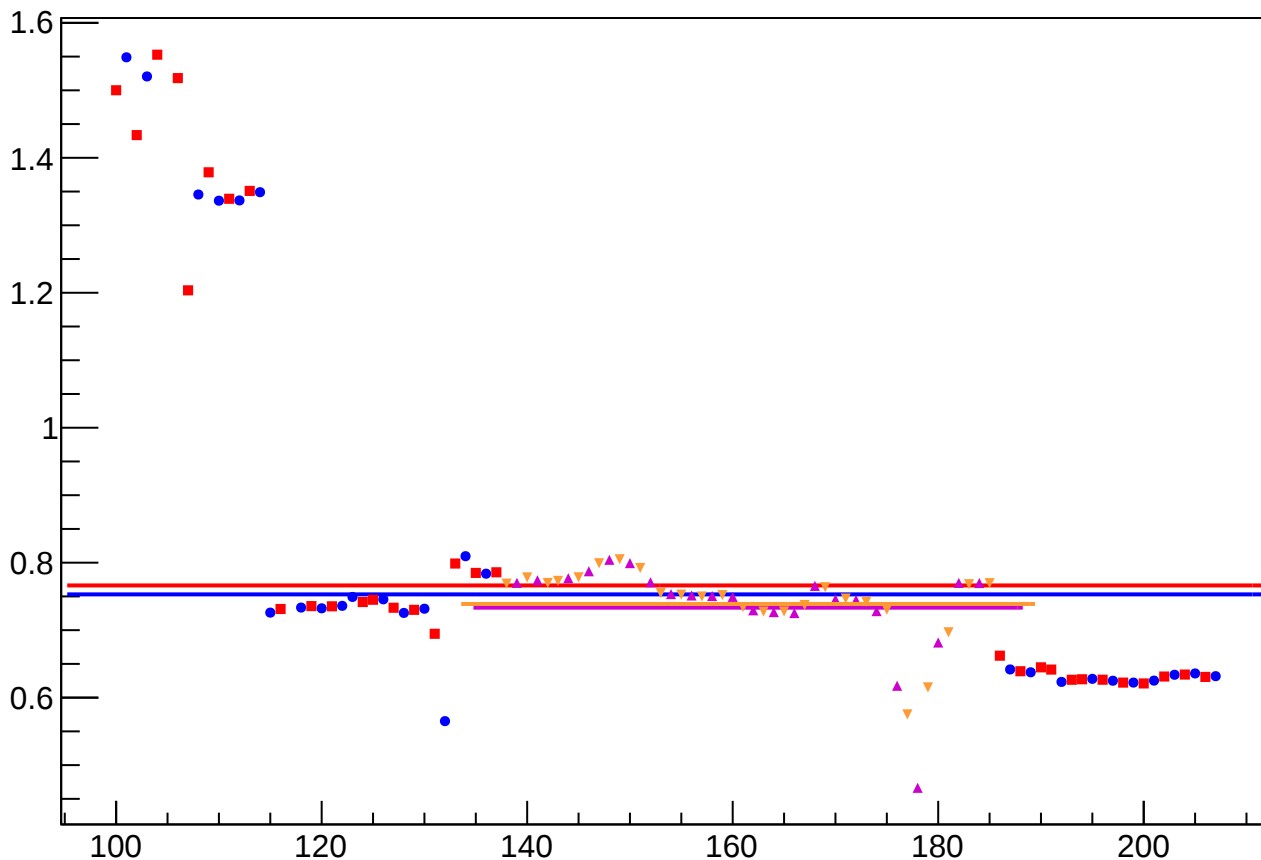
Right: 0.028+/-0.000 χ^2/NDF : 12613991.1/57

In: 0.021+/-0.000 χ^2/NDF : 8173805.4/49

Out: 0.021+/-0.000 χ^2/NDF : 8904565.4/55

All: 0.021+/-0.000 χ^2/NDF : 17080055.0/105

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.753+/-0.000 χ^2/NDF : 3440525632.5/26

Left Out: 0.739+/-0.000 χ^2/NDF : 333086309.0/24

Right Out: 0.766+/-0.000 χ^2/NDF : 3760823417.6/30

Left In: 0.733+/-0.000 χ^2/NDF : 570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

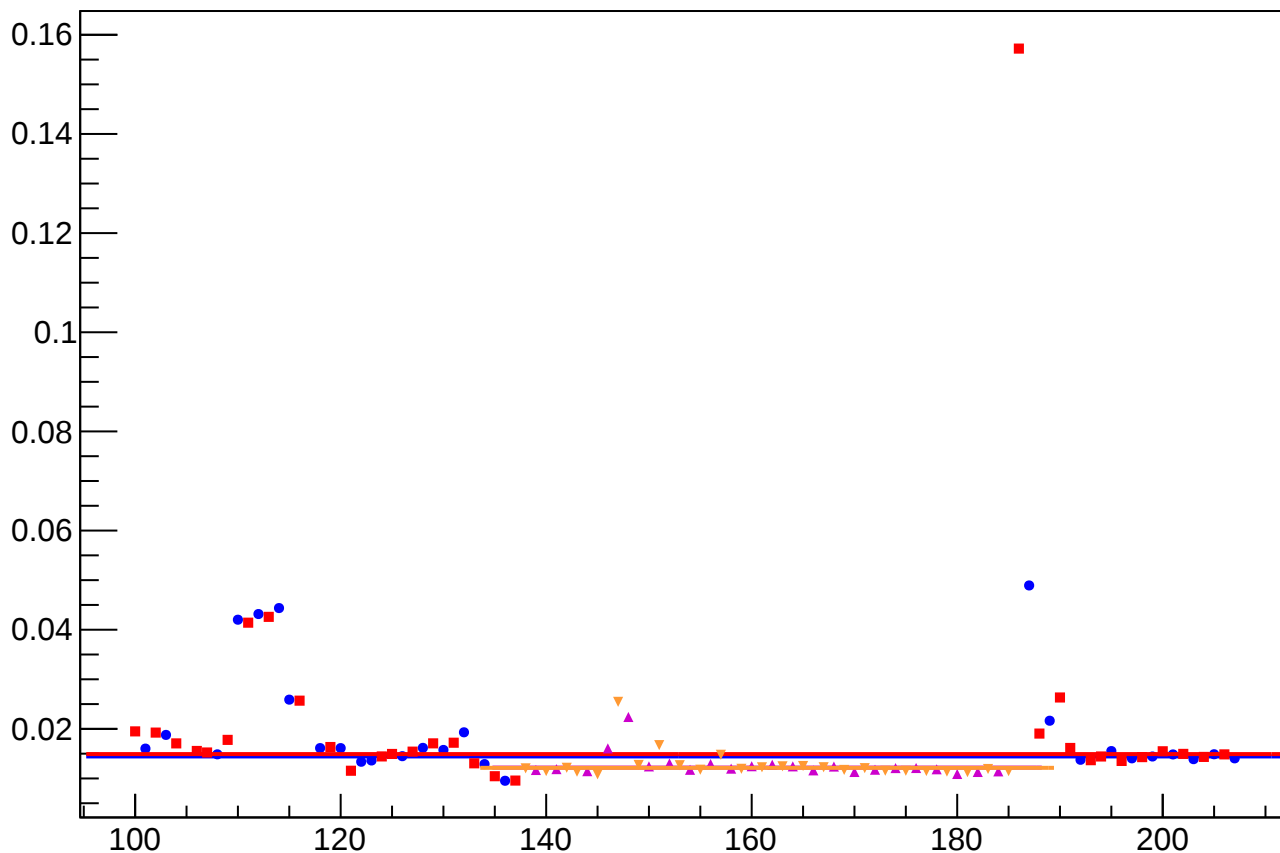
Right: 0.760+/-0.000 χ^2/NDF : 7206558046.2/57

In: 0.740+/-0.000 χ^2/NDF : 4025800920.0/49

Out: 0.748+/-0.000 χ^2/NDF : 4123890661.2/55

All: 0.744+/-0.000 χ^2/NDF : 8155116589.6/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1647097.0/26

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2078143.0/30

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

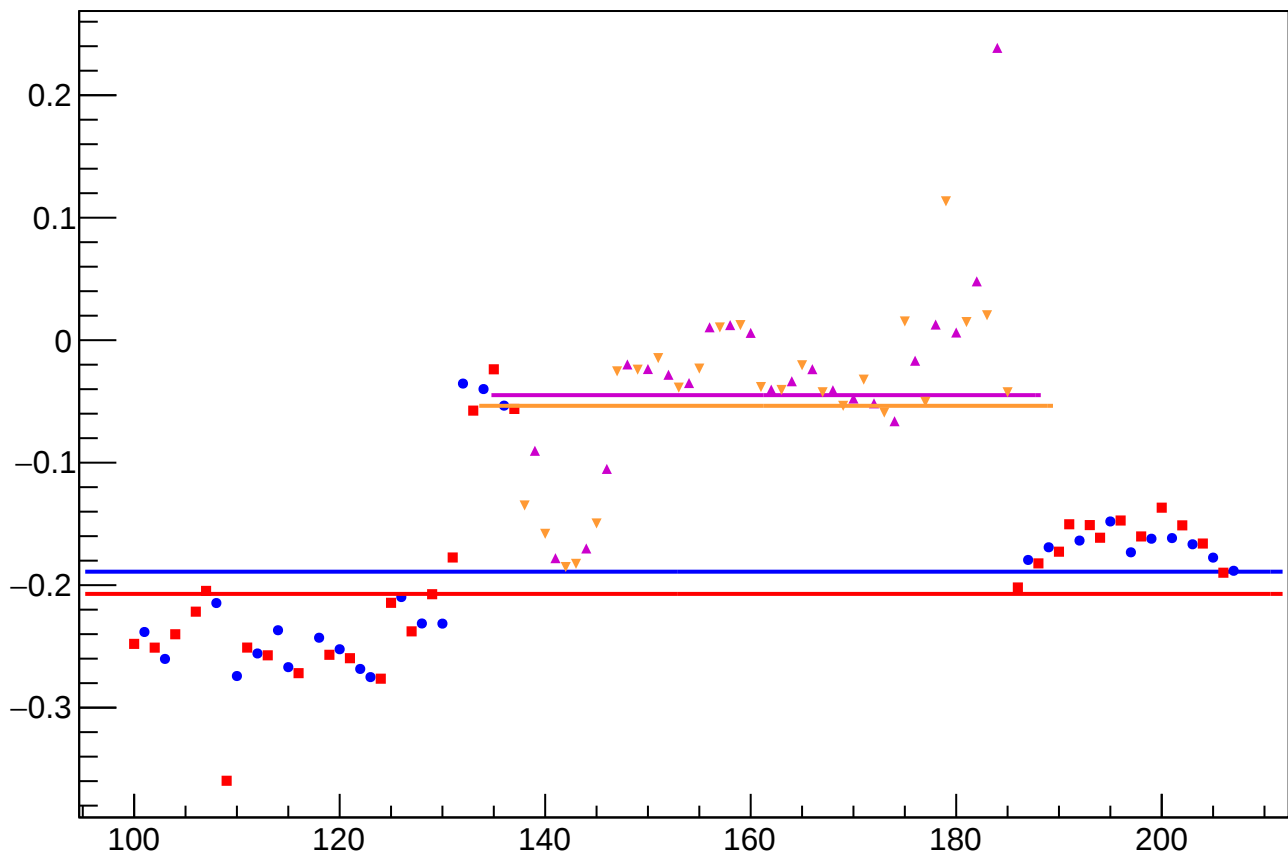
Right: 0.015+/-0.000 χ^2/NDF : 3738612.8/57

In: 0.013+/-0.000 χ^2/NDF : 2520883.3/49

Out: 0.013+/-0.000 χ^2/NDF : 3328095.3/55

All: 0.013+/-0.000 χ^2/NDF : 5850785.3/105

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189+/-0.000 χ^2/NDF : 106882933.8/26

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.207+/-0.000 χ^2/NDF : 113821170.2/30

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

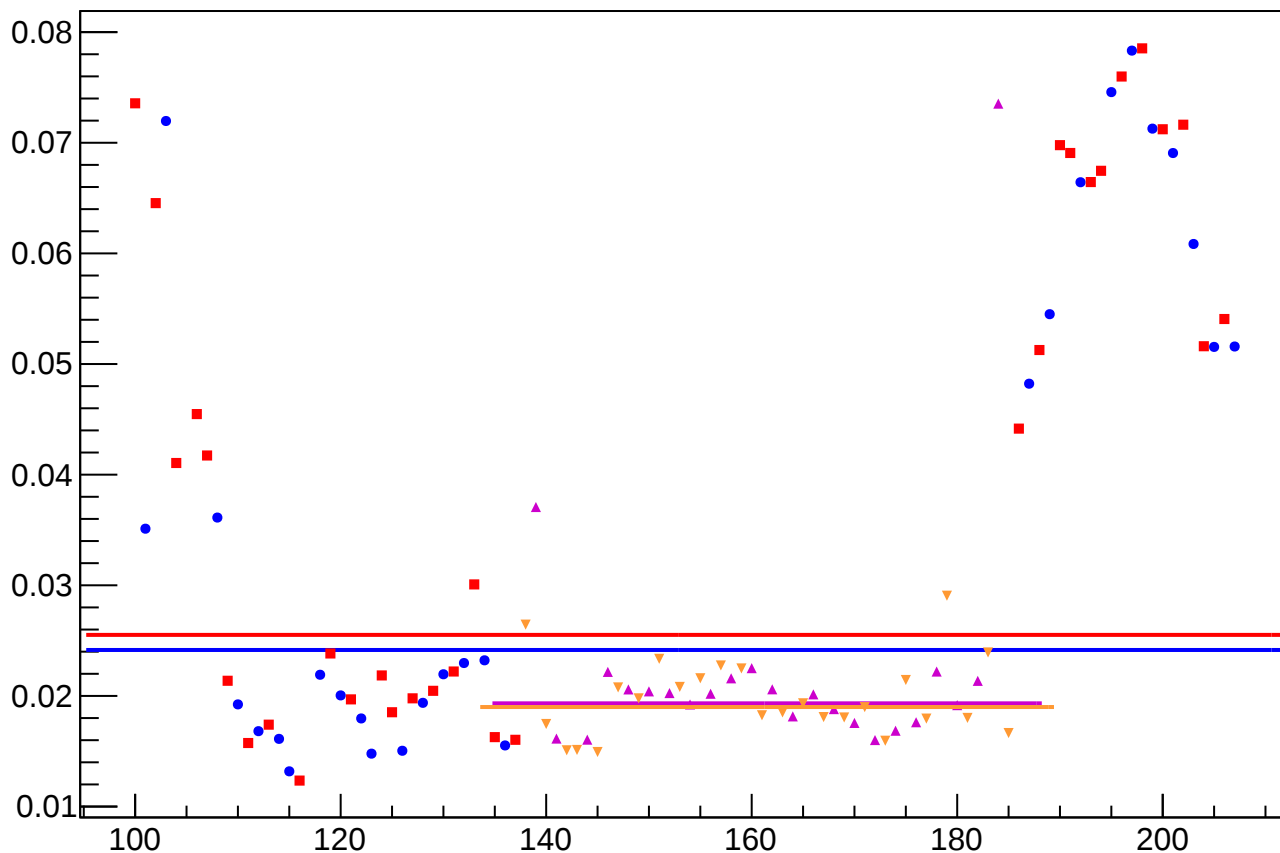
Right: -0.198+/-0.000 χ^2/NDF : 223193519.0/57

In: -0.087+/-0.000 χ^2/NDF : 459200341.5/49

Out: -0.095+/-0.000 χ^2/NDF : 540107782.5/55

All: -0.091+/-0.000 χ^2/NDF : 1001187872.1/111

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7189453.9/26

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 7792071.3/30

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

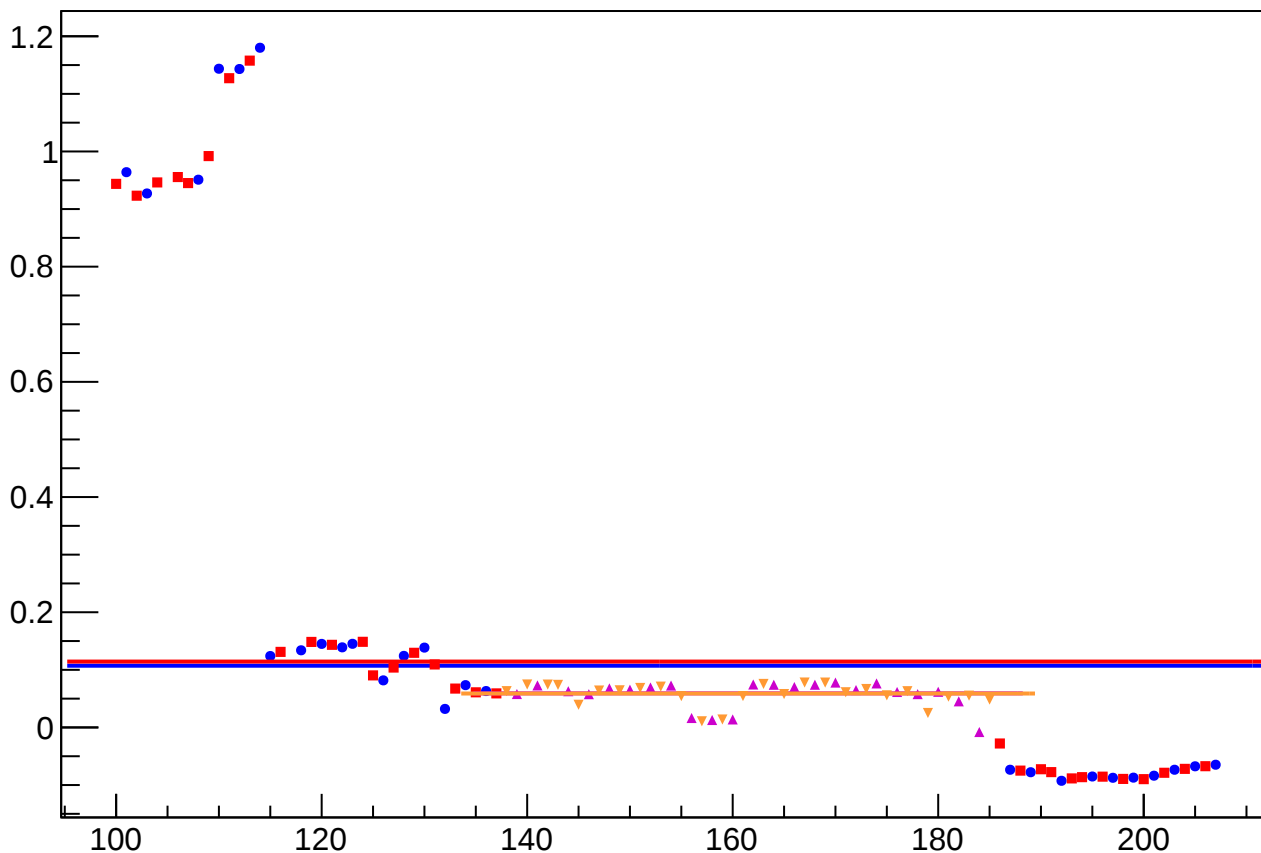
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15009685.9/57

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8586171.5/49

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9423248.0/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18009459.9/105

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.000 χ^2 /NDF: 7998297349.6/26

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.114 $\pm$ 0.000 χ^2 /NDF: 8983692294.2/30

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

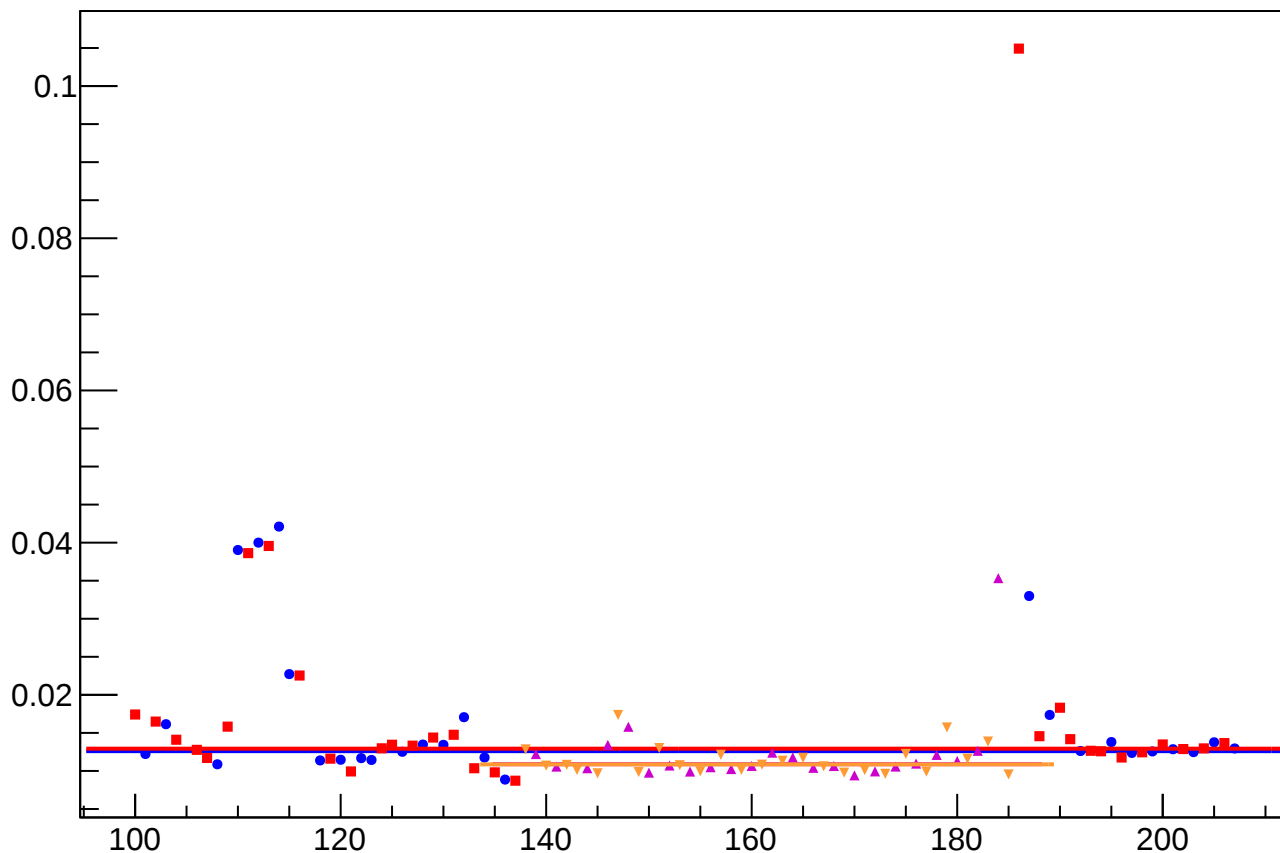
Right: 0.111 $\pm$ 0.000 χ^2 /NDF: 16984019003.2/57

In: 0.077 $\pm$ 0.000 χ^2 /NDF: 8171241123.8/49

Out: 0.079 $\pm$ 0.000 χ^2 /NDF: 9188019055.3/55

All: 0.078 $\pm$ 0.000 χ^2 /NDF: 17359693959.0/102

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1490645.8/26

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1896598.3/30

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

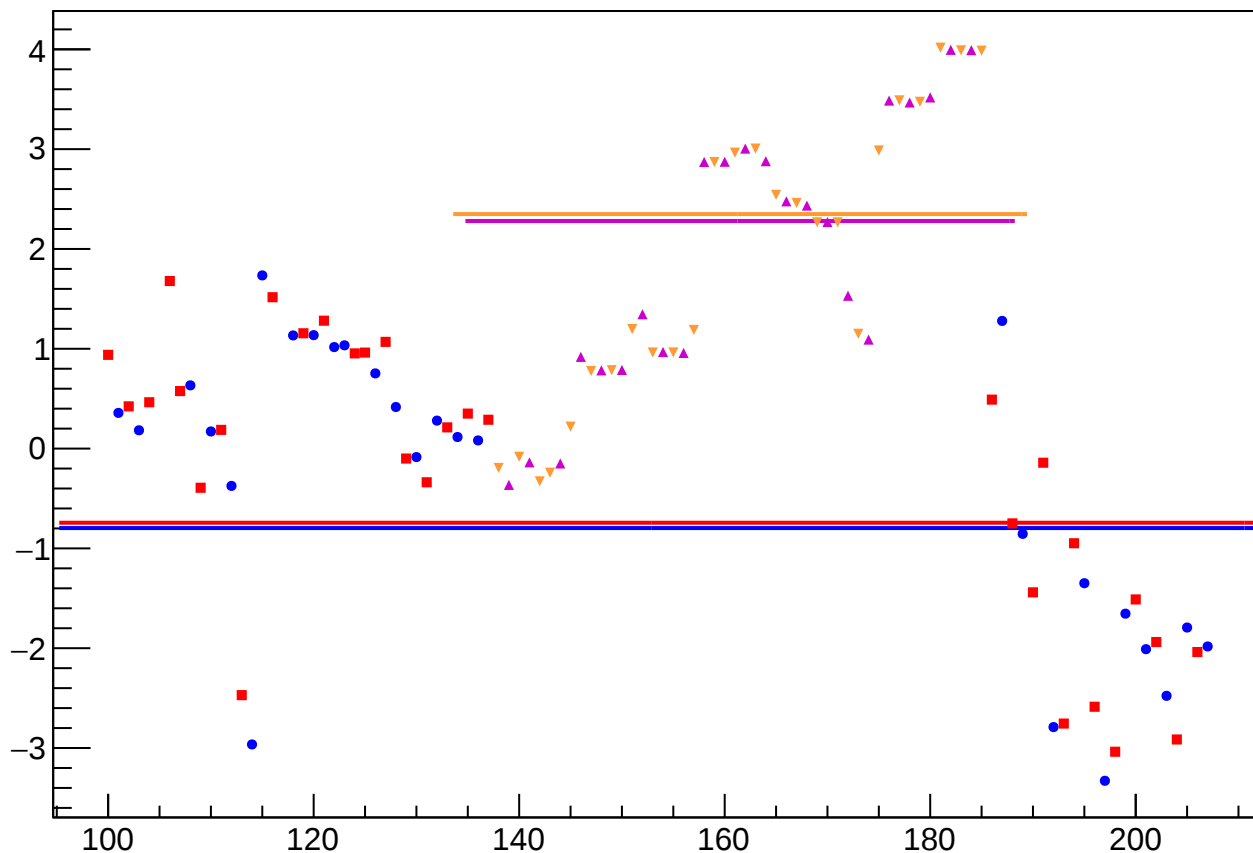
Right: 0.013+/-0.000 χ^2/NDF : 3395571.2/57

In: 0.012+/-0.000 χ^2/NDF : 2310388.8/49

Out: 0.012+/-0.000 χ^2/NDF : 2937140.1/55

All: 0.012+/-0.000 χ^2/NDF : 5249095.7/105

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.796 ± 0.000 $\chi^2/\text{NDF}: 6397743872.5/26$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.743 ± 0.000 $\chi^2/\text{NDF}: 7585115836.5/30$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

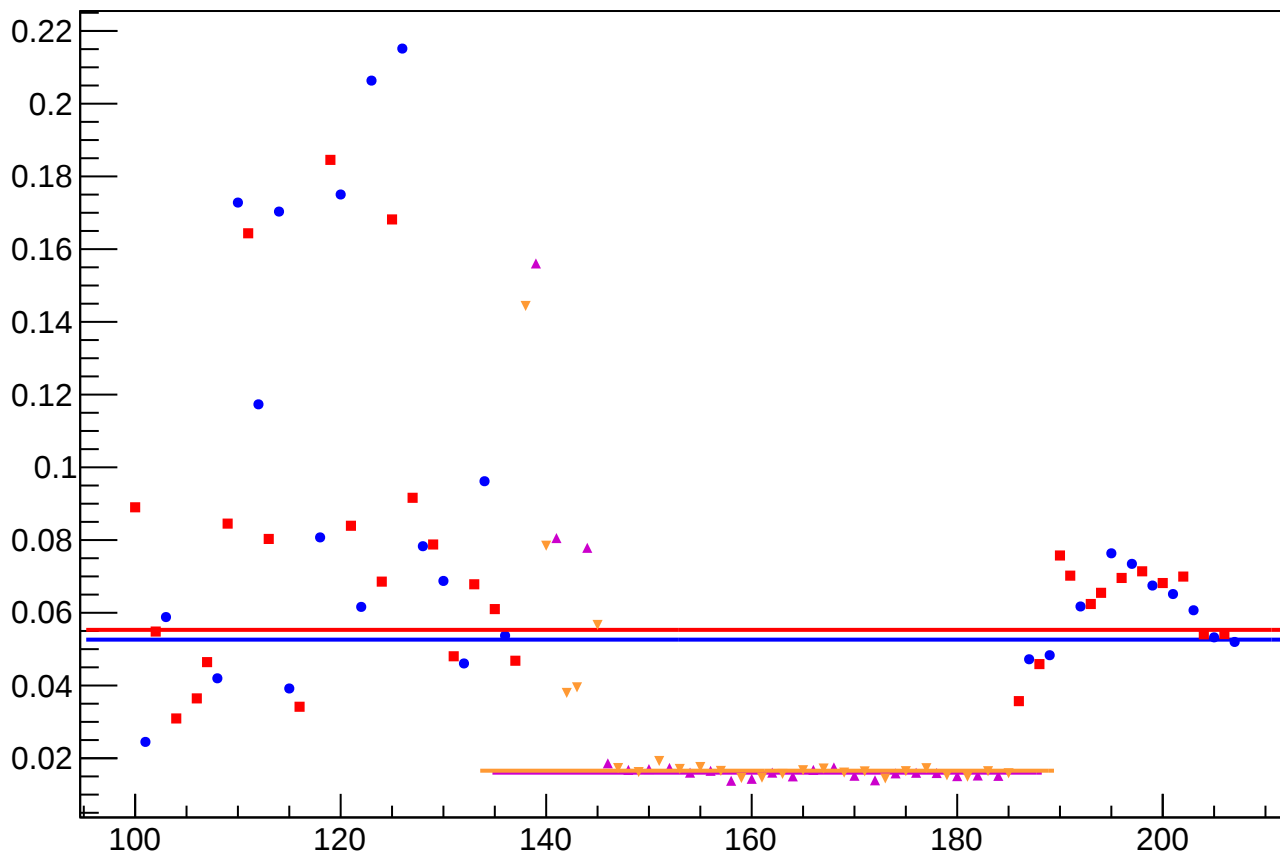
Right: -0.769 ± 0.000 $\chi^2/\text{NDF}: 13988087051.9/57$

In: 2.082 ± 0.000 $\chi^2/\text{NDF}: 99633448248.6/49$

Out: 2.140 ± 0.000 $\chi^2/\text{NDF}: 104238705894.6/55$

All: 2.111 ± 0.000 $\chi^2/\text{NDF}: 203965901116.5$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3459358.7/26

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2838047.8/30

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

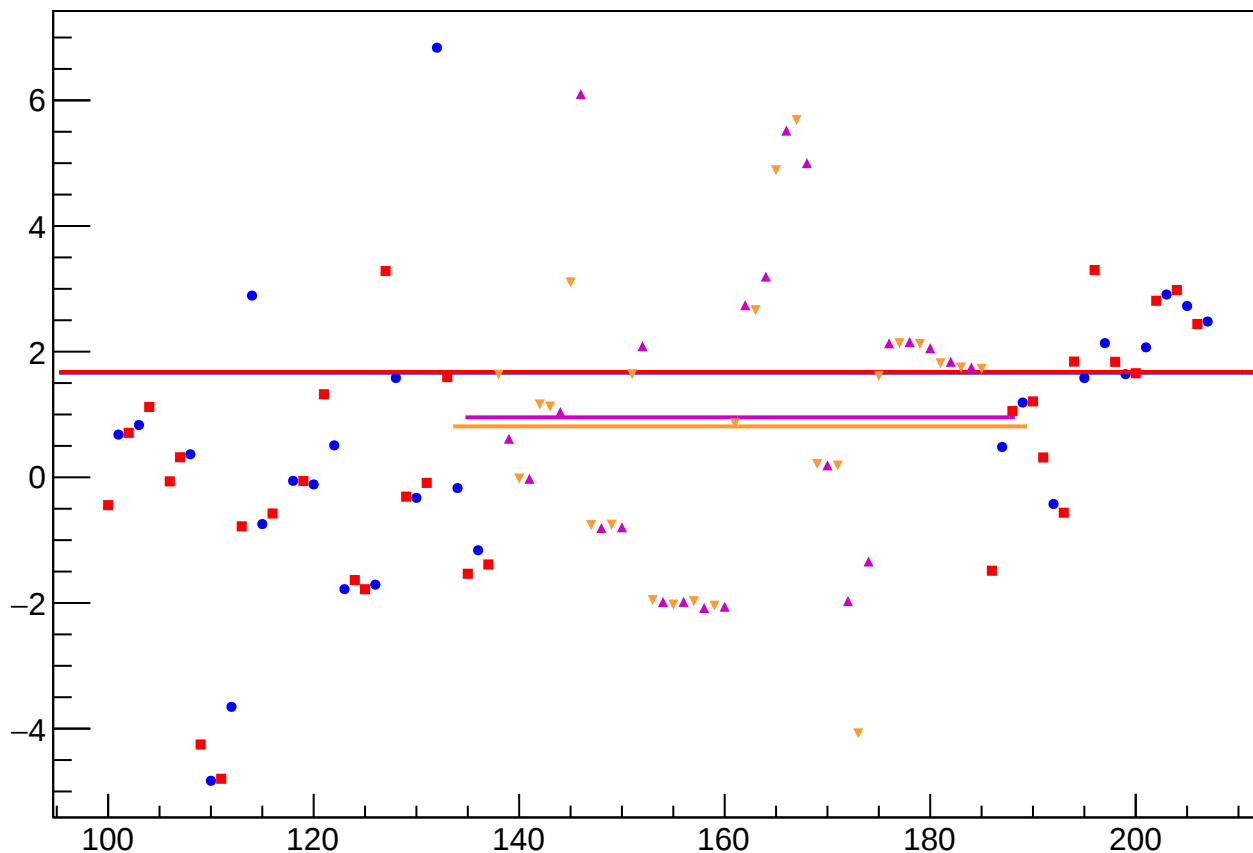
Right: 0.054+/-0.000 χ^2/NDF : 6323763.7/57

In: 0.018+/-0.000 χ^2/NDF : 14914986.6/49

Out: 0.019+/-0.000 χ^2/NDF : 15830448.6/55

All: 0.019+/-0.000 χ^2/NDF : 30781750.8/105

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.667+/-0.000

χ^2/NDF : 32564628665.1/26

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right: 1.671+/-0.000

χ^2/NDF : 65844725348.5/57

Right Out: 1.676+/-0.000

χ^2/NDF : 33279154545.4/30

In: 1.098+/-0.000

χ^2/NDF : 616156277998.6/49

Out: 0.987+/-0.000

χ^2/NDF : 553870321038.1/55

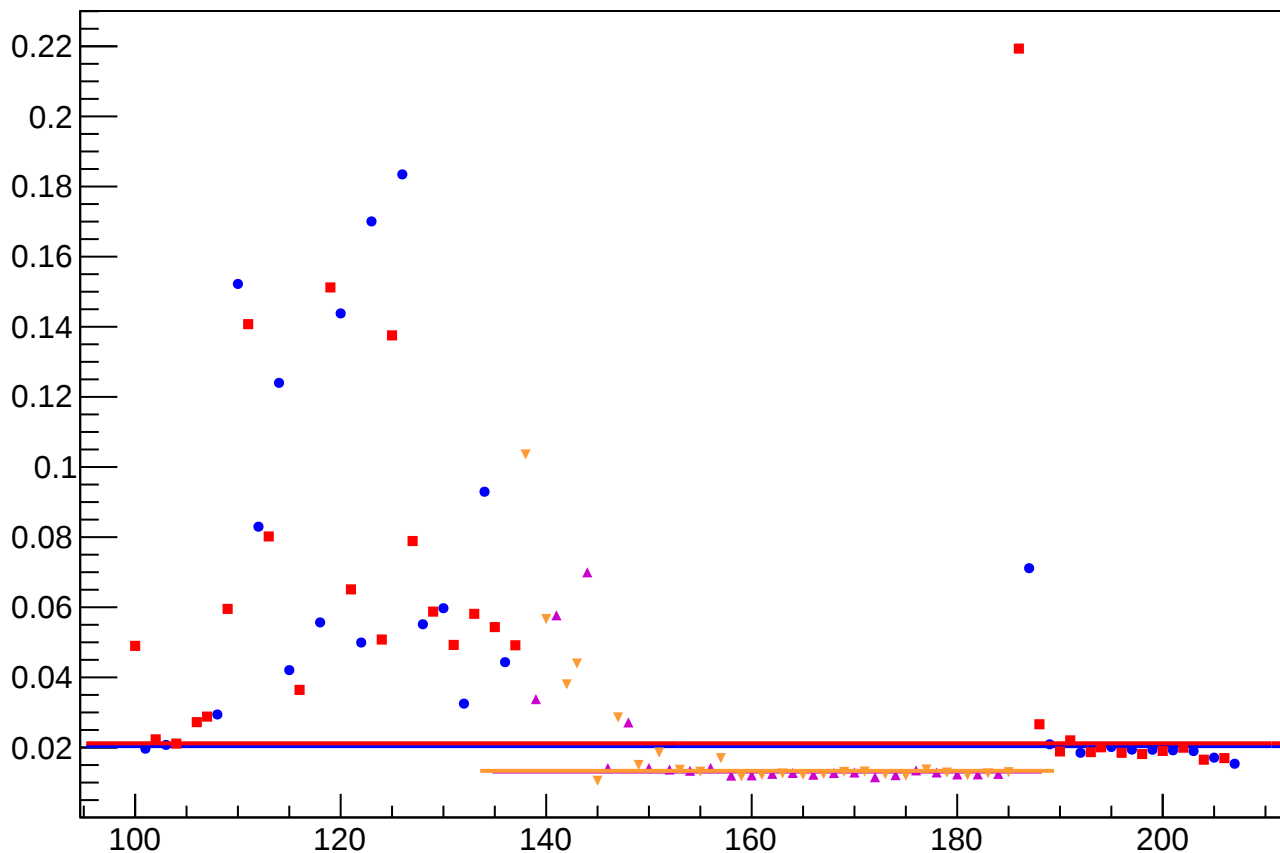
Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.043+/-0.000

χ^2/NDF : 1170693326681.1/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 3981675.7/26

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5030573.7/30

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

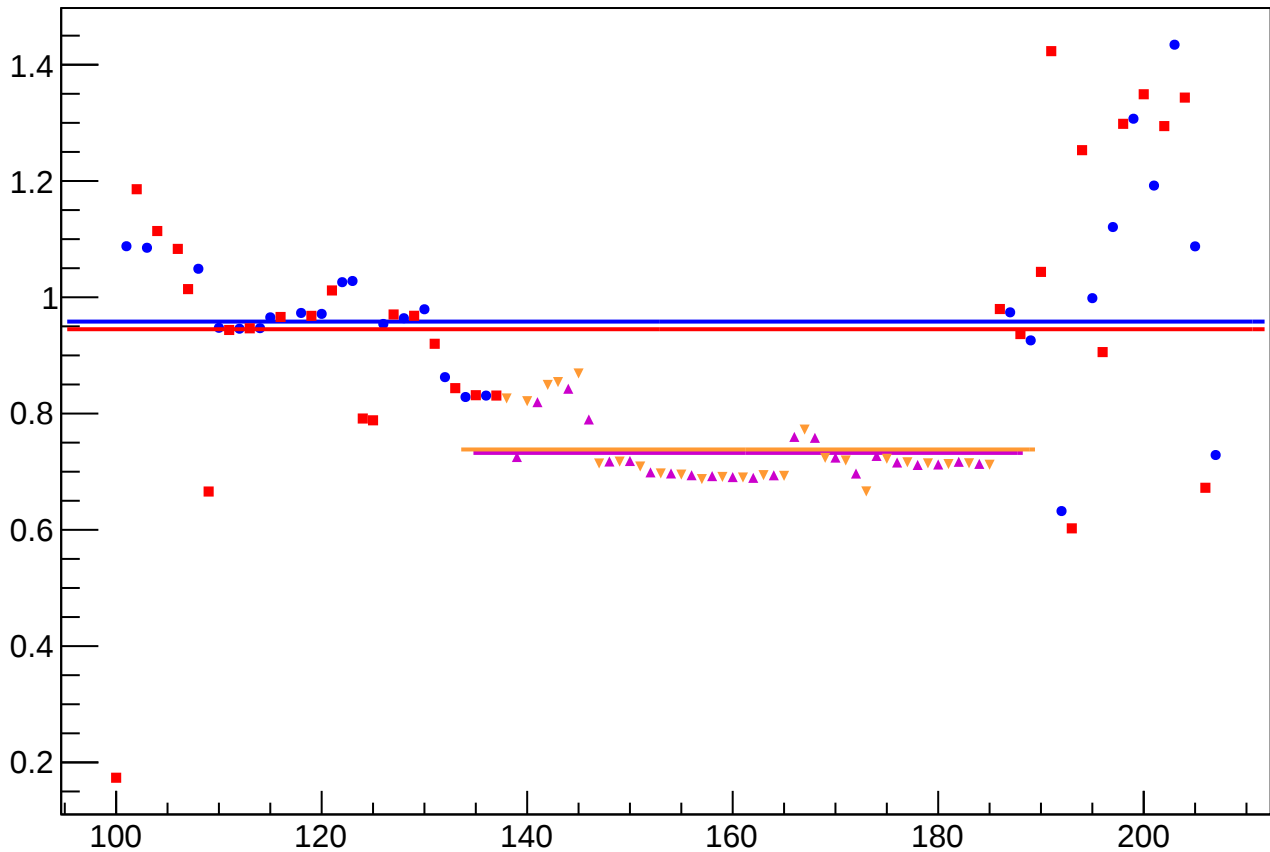
Right: 0.021+/-0.000 χ^2/NDF : 9026690.6/57

In: 0.015+/-0.000 χ^2/NDF :7776115.0/49

Out: 0.015+/-0.000 χ^2/NDF :10008059.2/55

All: 0.015+/-0.000 χ^2/NDF : 17796653.0/105

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.958 $\pm$ 0.000 χ^2 /NDF: 622581104.6/26

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310610047.7/24

Right Out: 0.945 $\pm$ 0.000 χ^2 /NDF: 1053030723.5/30

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

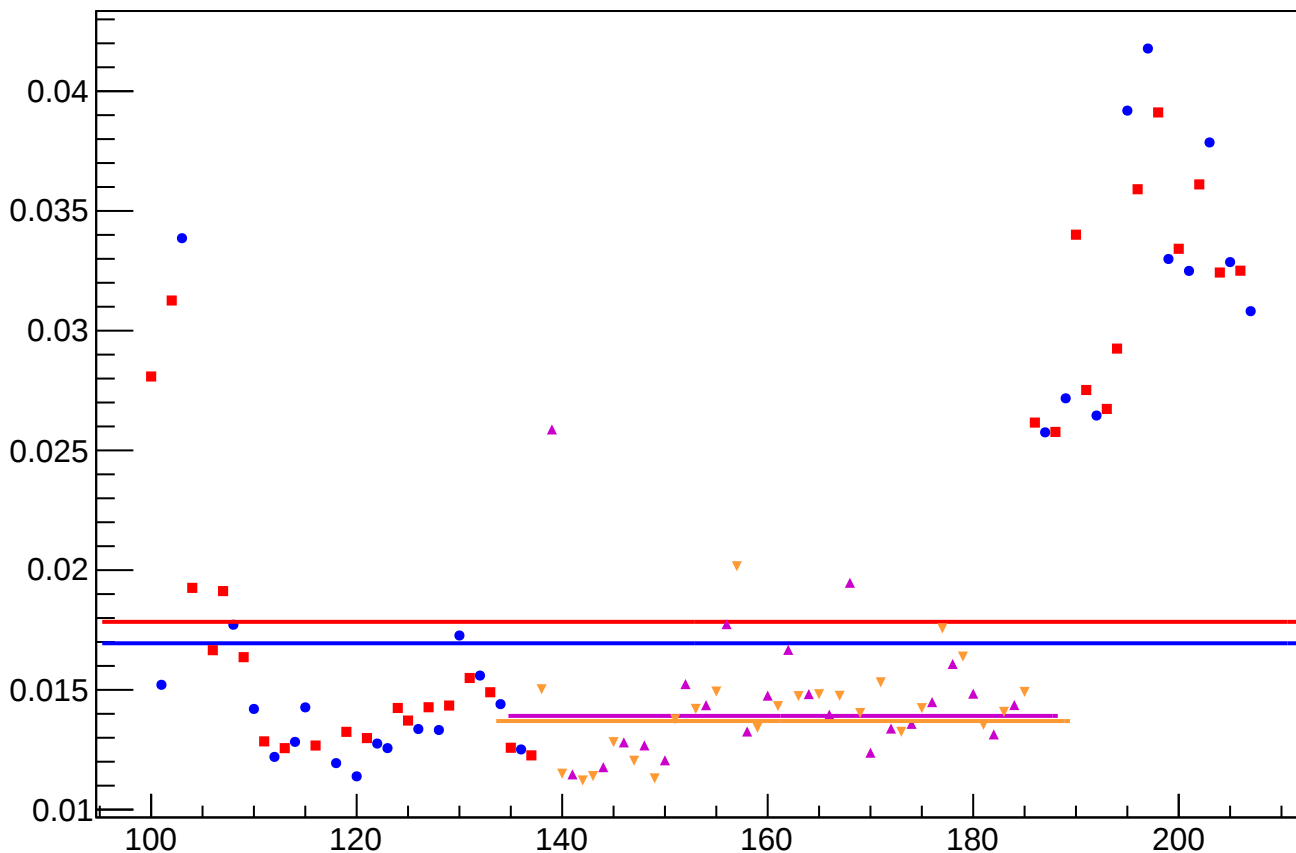
Right: 0.952 $\pm$ 0.000 χ^2 /NDF: 1678796646.3/57

In: 0.803 $\pm$ 0.000 χ^2 /NDF: 2078681024.5/49

Out: 0.800 $\pm$ 0.000 χ^2 /NDF: 2474582398.6/55

All: 0.802 $\pm$ 0.000 χ^2 /NDF: 4553729501.4/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4343030.0/26

Left Out: 0.014+/-0.000 χ^2/NDF :530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4044009.9/30

Left In: 0.014+/-0.000 χ^2/NDF :794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

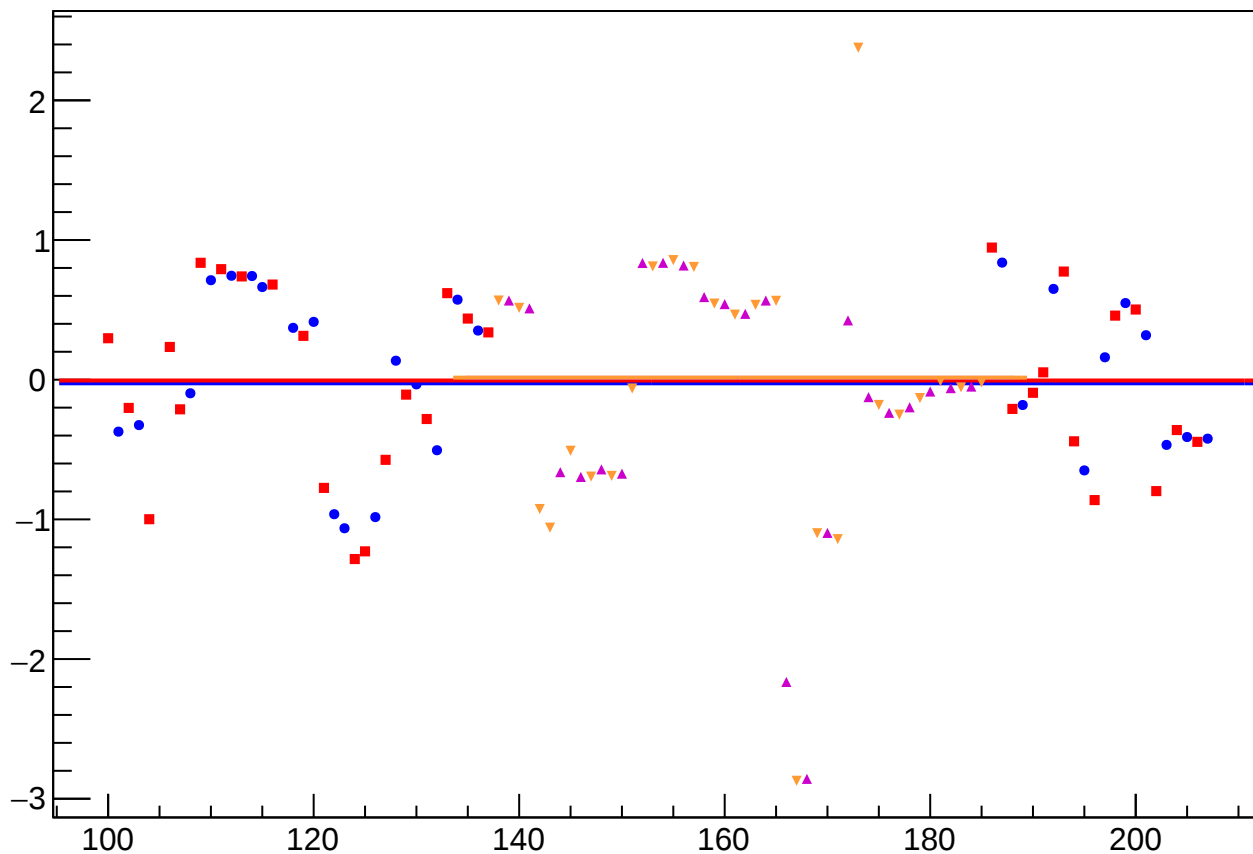
Right: 0.017+/-0.000 χ^2/NDF : 8416571.5/57

In: 0.015+/-0.000 χ^2/NDF :5601156.5/49

Out: 0.015+/-0.000 χ^2/NDF :5466159.4/55

All: 0.015+/-0.000 χ^2/NDF : 11068056.6/105

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.026+/-0.000 χ^2/NDF : 19289337339.9/26

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: -0.006+/-0.000 χ^2/NDF : 29550168559.7/30

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

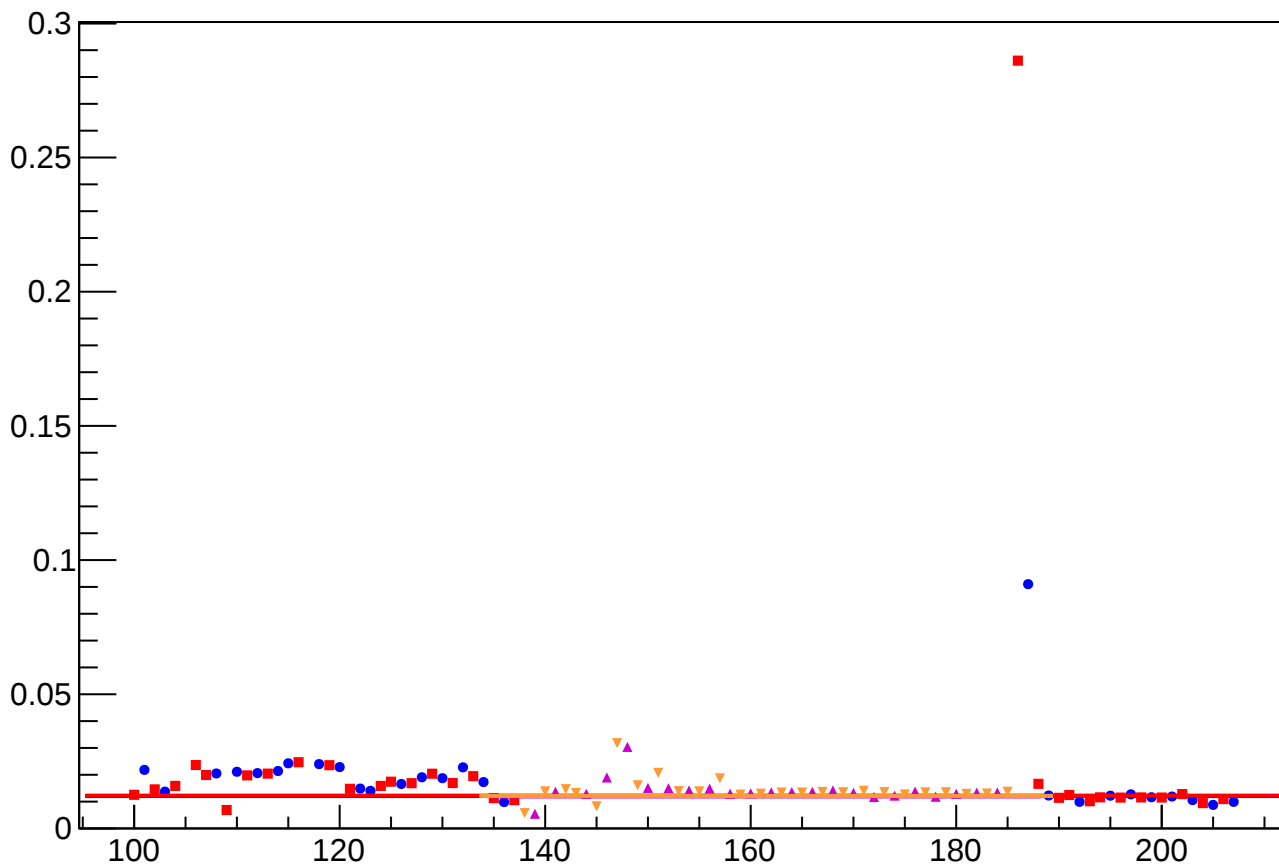
Right: -0.016+/-0.000 χ^2/NDF : 48855626866.0/57

In: -0.004+/-0.000 χ^2/NDF : 98803218600.1/49

Out: 0.006+/-0.000 χ^2/NDF : 125657647308.6/55

All: 0.001+/-0.000 χ^2/NDF : 224469299821.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2283179.7/26

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2682442.7/30

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

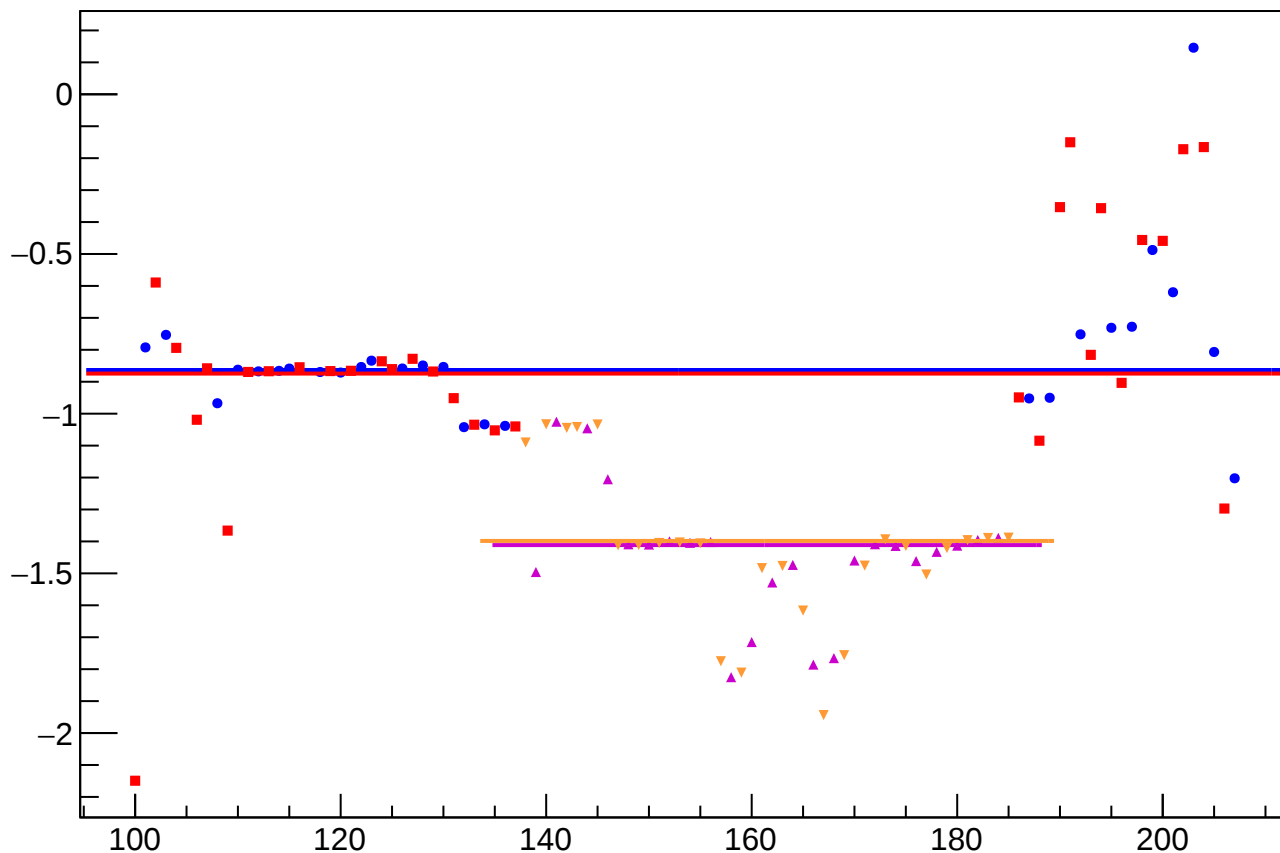
Right: 0.012+/-0.000 χ^2/NDF : 4967828.4/57

In: 0.012+/-0.000 χ^2/NDF :5391150.5/49

Out: 0.012+/-0.000 χ^2/NDF :5791603.5/55

All: 0.012+/-0.000 χ^2/NDF : 11188771.7/105

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.863 ± 0.000 $\chi^2/\text{NDF}: 185575901.1/26$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 394002918.5/30$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

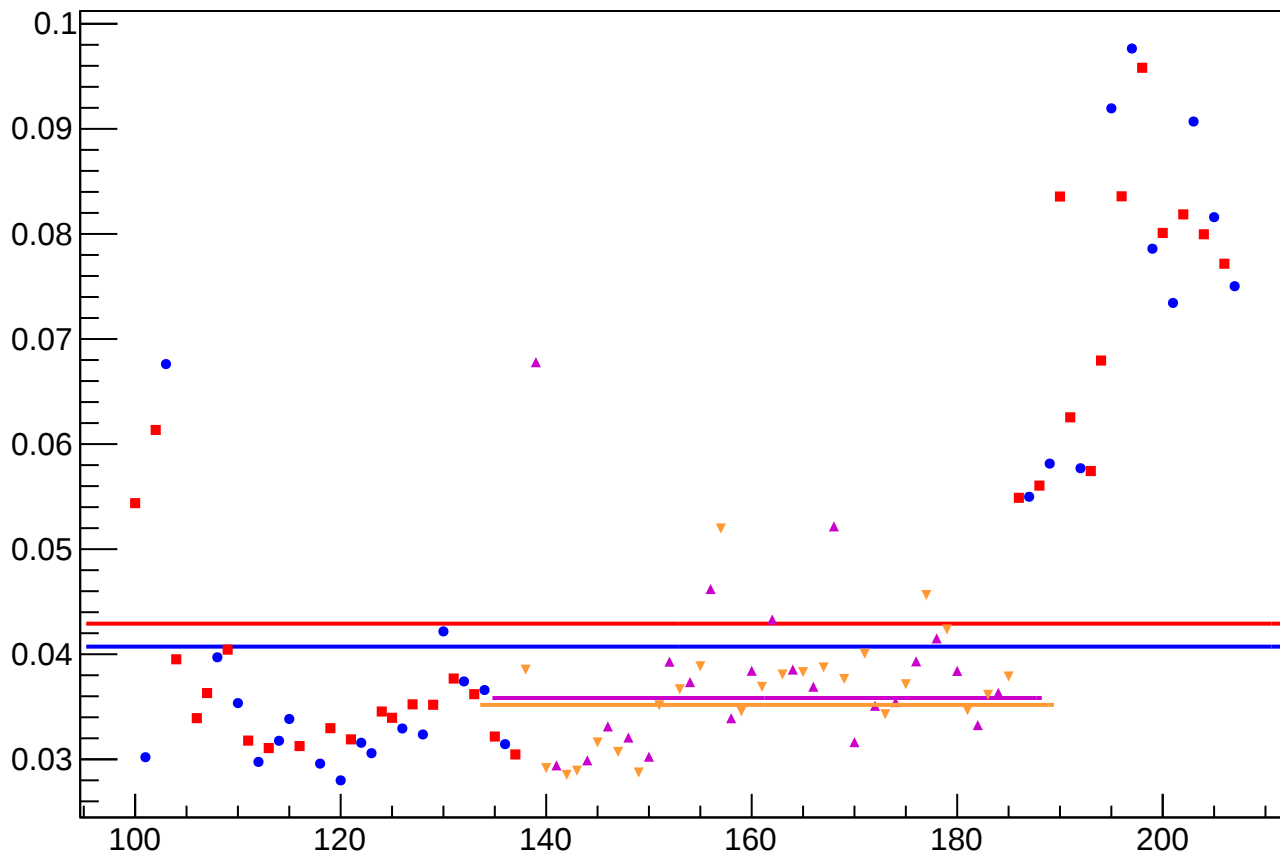
Right: -0.869 ± 0.000 $\chi^2/\text{NDF}: 579985028.6/57$

In: -1.219 ± 0.000 $\chi^2/\text{NDF}: 1960448509.8/49$

Out: -1.223 ± 0.000 $\chi^2/\text{NDF}: 2323932866.3/55$

All: -1.221 ± 0.000 $\chi^2/\text{NDF}: 4284498654.3/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.041 $\pm$ 0.000 χ^2 /NDF: 4017215.8/26

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.043 $\pm$ 0.000 χ^2 /NDF: 3545849.6/30

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

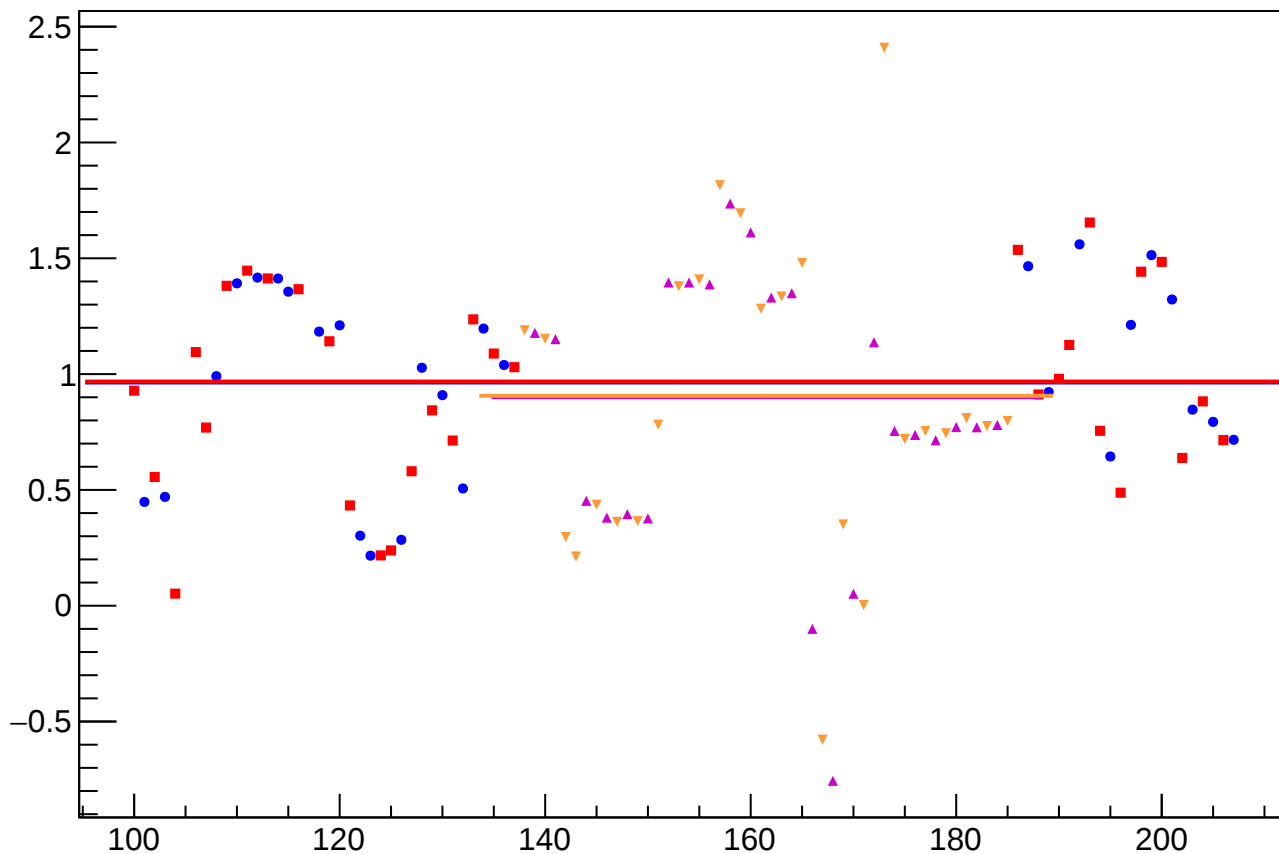
Right: 0.042 $\pm$ 0.000 χ^2 /NDF: 7594152.7/57

In: 0.038 $\pm$ 0.000 χ^2 /NDF:5108877.8/49

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:4664014.3/55

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 9773816.5/105

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.964+/-0.000

χ^2/NDF : 22451600065.7/26

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 0.966+/-0.000 χ^2/NDF : 49648344055.6/57

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.931+/-0.000 χ^2/NDF : 89787193425.9/49

Right Out: 0.968+/-0.000 χ^2/NDF : 27195277579.3/30

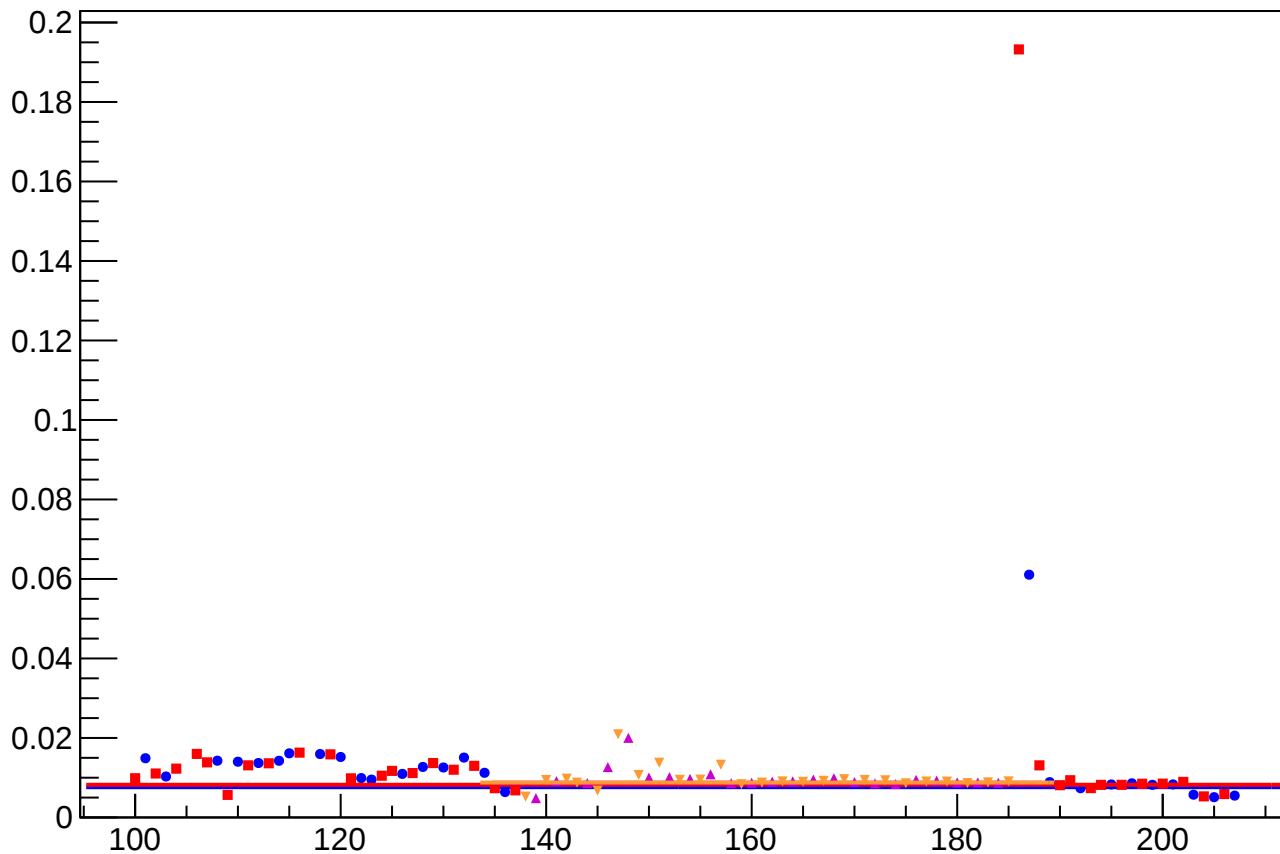
Out: 0.934+/-0.000 χ^2/NDF : 111678966655.2/55

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.933+/-0.000 χ^2/NDF : 201468008522.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 3002801.1/26

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3114642.1/30

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

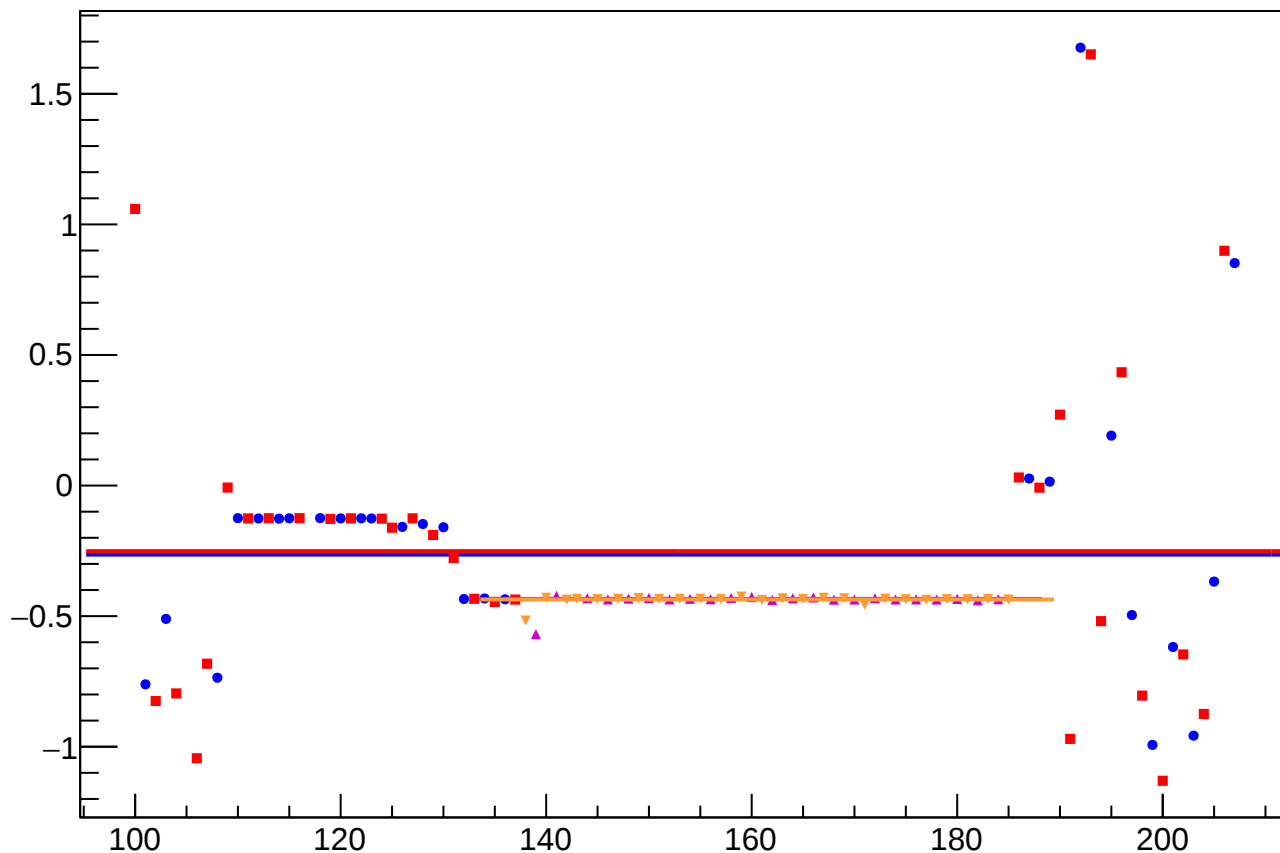
Right: 0.008+/-0.000 χ^2/NDF : 6186725.3/57

In: 0.008+/-0.000 χ^2/NDF : 4924785.1/49

Out: 0.009+/-0.000 χ^2/NDF : 4875670.6/55

All: 0.008+/-0.000 χ^2/NDF : 9845769.7/105

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.264 ± 0.000 $\chi^2/\text{NDF}: 2625304501.9/26$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.251 ± 0.000 $\chi^2/\text{NDF}: 2658436201.6/30$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

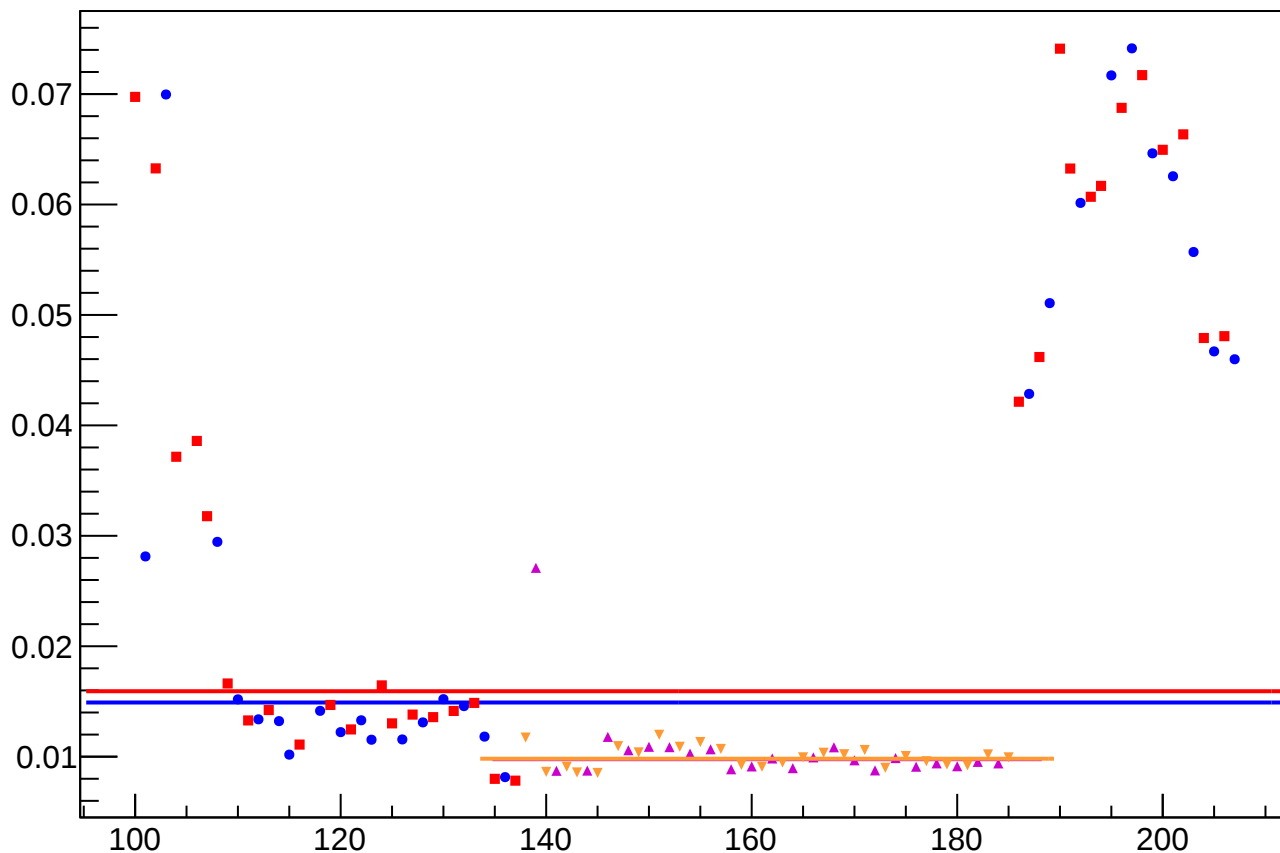
Right: -0.258 ± 0.000 $\chi^2/\text{NDF}: 5286629572.2/57$

In: -0.403 ± 0.000 $\chi^2/\text{NDF}: 3439636414.1/49$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 3607201946.2/55$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 7047279438.0/1$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 9733740.1/26

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.016+/-0.000 χ^2/NDF : 10613999.7/30

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

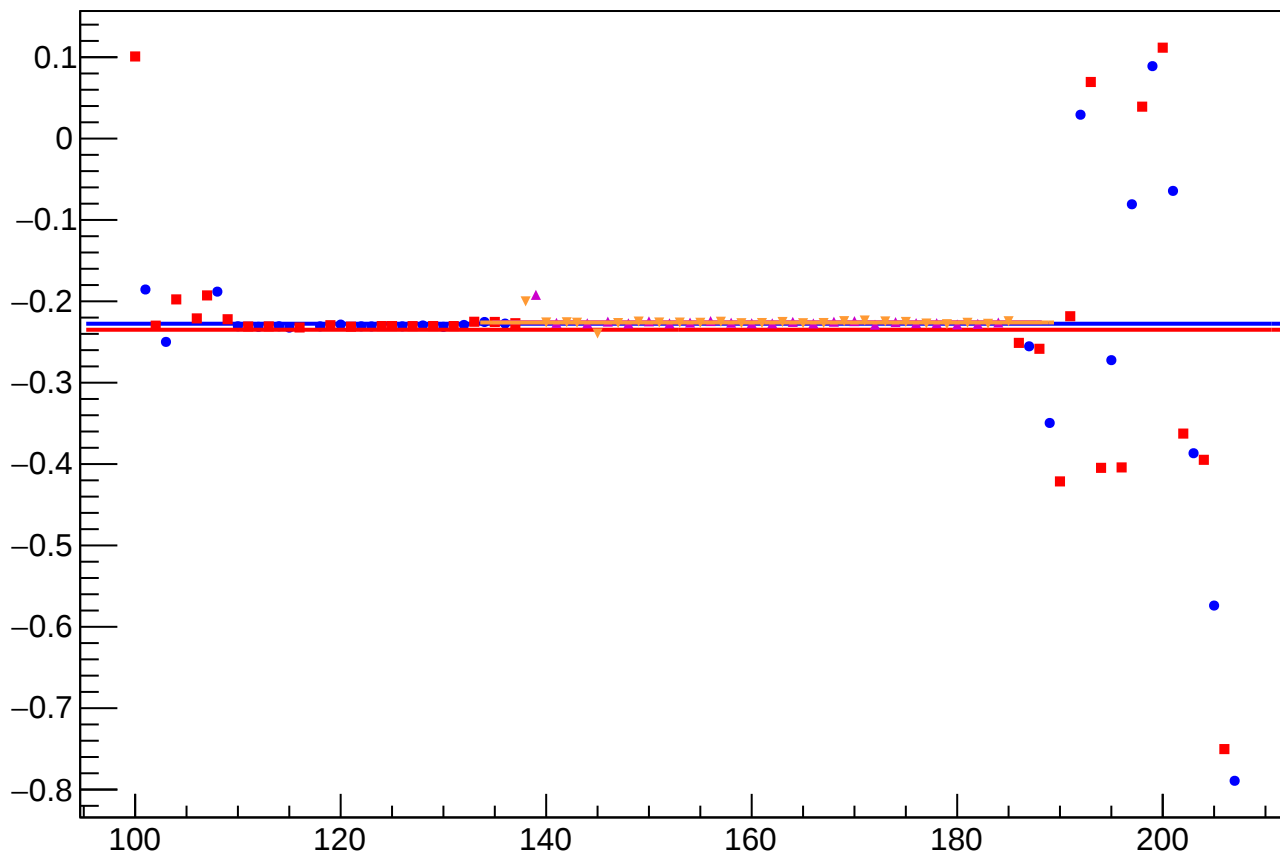
Right: 0.015+/-0.000 χ^2/NDF : 20382005.2/57

In: 0.011+/-0.000 χ^2/NDF : 11973977.3/49

Out: 0.011+/-0.000 χ^2/NDF : 12890255.4/55

All: 0.011+/-0.000 χ^2/NDF : 24867377.5/105

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.228+/-0.000 χ^2/NDF : 14114803783.9/26

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.235+/-0.000 χ^2/NDF : 13480422348.4/30

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

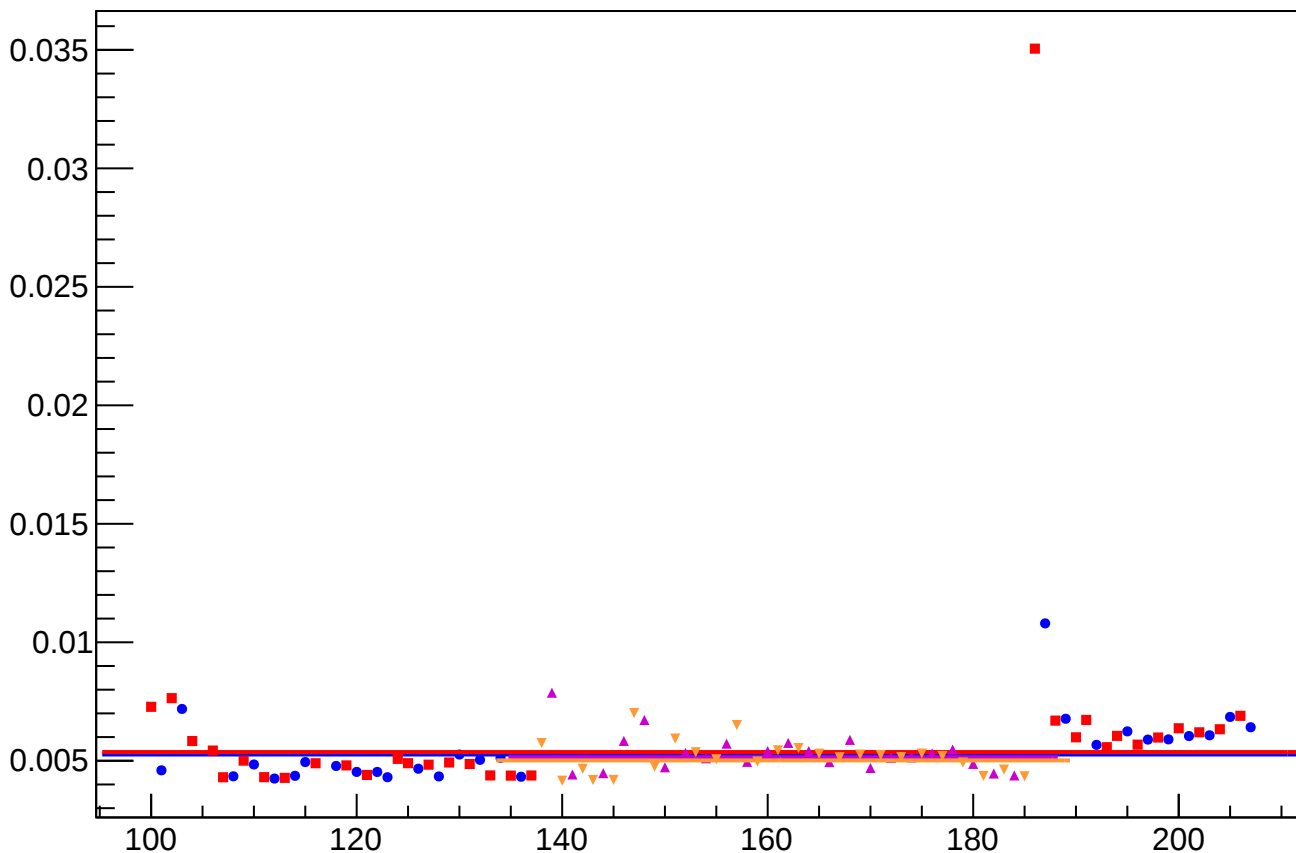
Right: -0.231+/-0.000 χ^2/NDF : 27607797179.1/57

In: -0.226+/-0.000 χ^2/NDF : 14129369049.3/49

Out: -0.230+/-0.000 χ^2/NDF : 13523763945.1/55

All: -0.228+/-0.000 χ^2/NDF : 27658619835.3/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 747351.7/26

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1256489.5/30

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

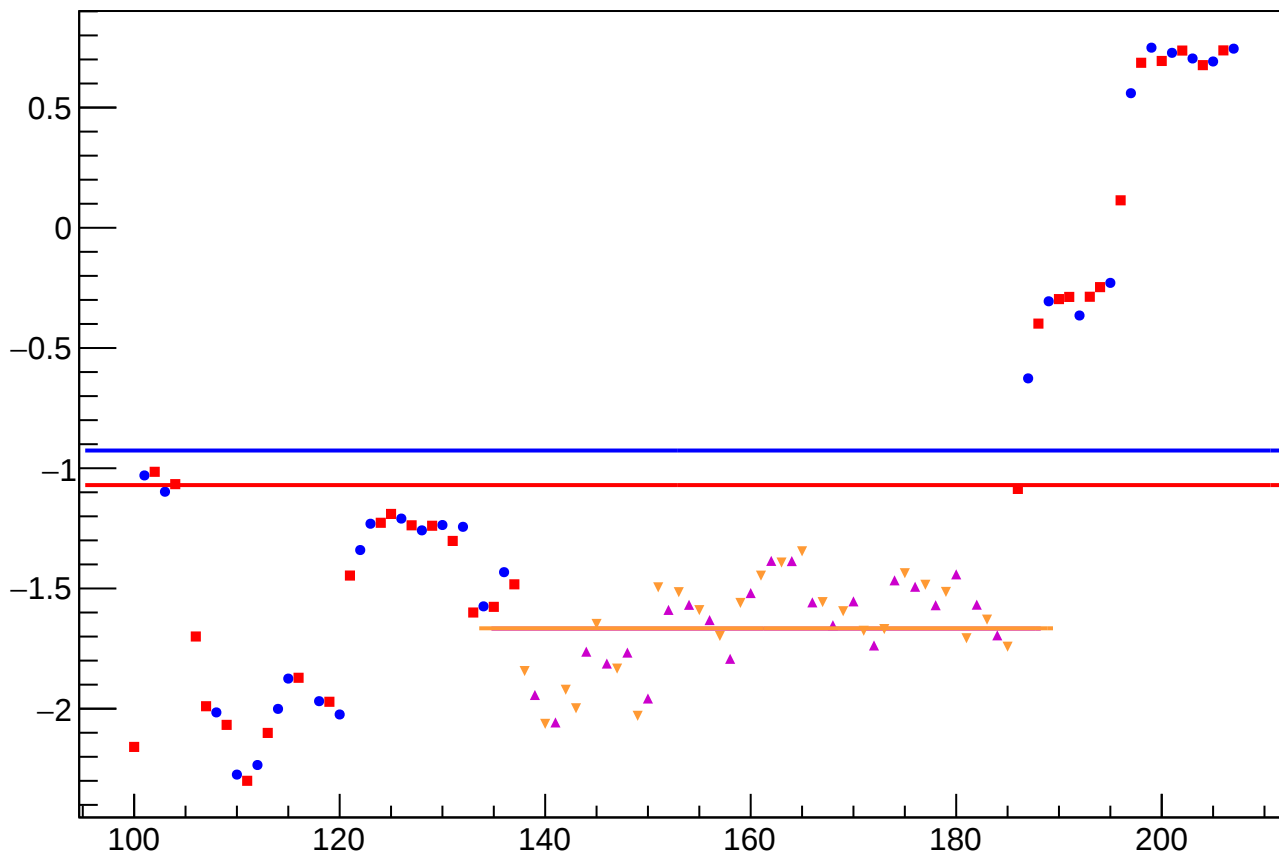
Right: 0.005+/-0.000 χ^2/NDF : 2008842.9/57

In: 0.005+/-0.000 χ^2/NDF : 1258305.9/49

Out: 0.005+/-0.000 χ^2/NDF : 1858499.5/55

All: 0.005+/-0.000 χ^2/NDF : 3118476.2/105

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.926 ± 0.000

χ^2/NDF : 181782787272.2/26

Left: -1.666 ± 0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666 ± 0.000

χ^2/NDF : 18368038680.8/24

Right: -1.004 ± 0.000

χ^2/NDF : 385664370154.1/57

Right Out: -1.070 ± 0.000

χ^2/NDF : 201641560046.2/30

In: -1.425 ± 0.000

χ^2/NDF : 270491254053.0/49

Out: -1.458 ± 0.000

χ^2/NDF : 274527590308.2/55

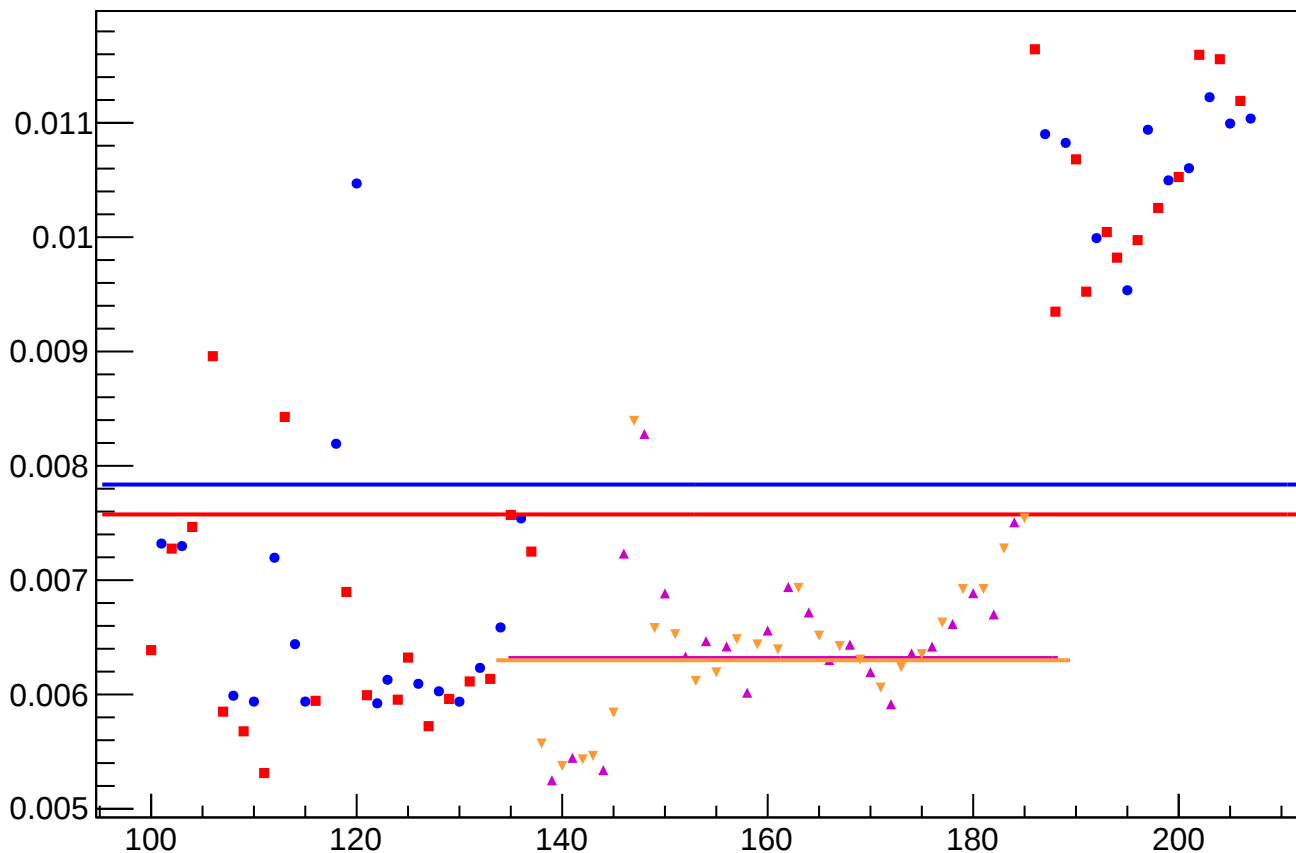
Left In: -1.667 ± 0.000

χ^2/NDF : 14615453869.3/22

All: -1.443 ± 0.000

χ^2/NDF : 545376211882.7

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1570550.1/26

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1913384.5/30

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

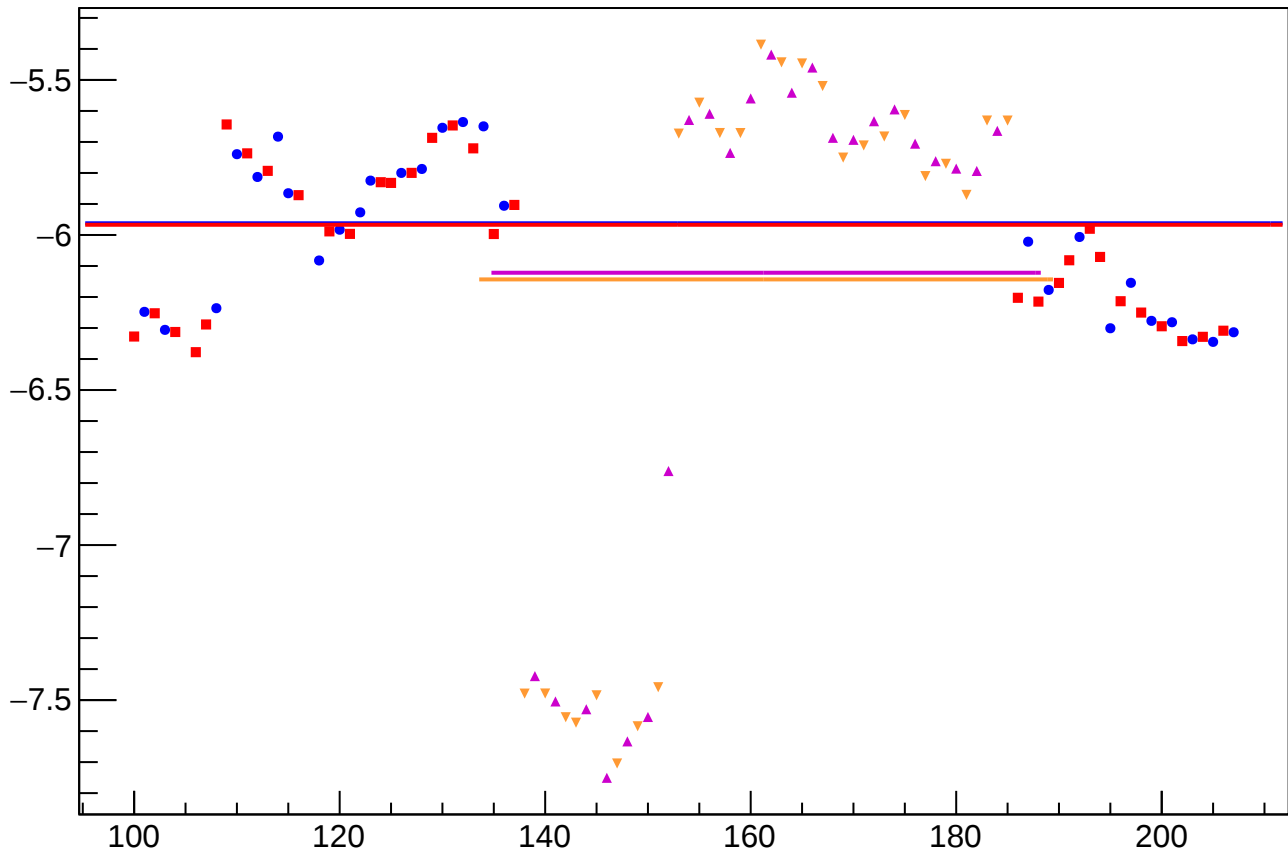
Right: 0.008+/-0.000 χ^2/NDF : 3498735.6/57

In: 0.007+/-0.000 χ^2/NDF :2527069.1/49

Out: 0.007+/-0.000 χ^2/NDF :2726309.2/55

All: 0.007+/-0.000 χ^2/NDF : 5256619.3/105

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.962 $\pm$ 0.000 χ^2 /NDF: 15032506171.4/26

Left Out: -6.143 $\pm$ 0.000 χ^2 /NDF: 185721259239.3/24

Right Out: -5.967 $\pm$ 0.000 χ^2 /NDF: 16350328651.2/30

Left In: -6.122 $\pm$ 0.000 χ^2 /NDF: 159909473006.6/22

Left: -6.133 $\pm$ 0.000 χ^2 /NDF: 345689393988.1/47

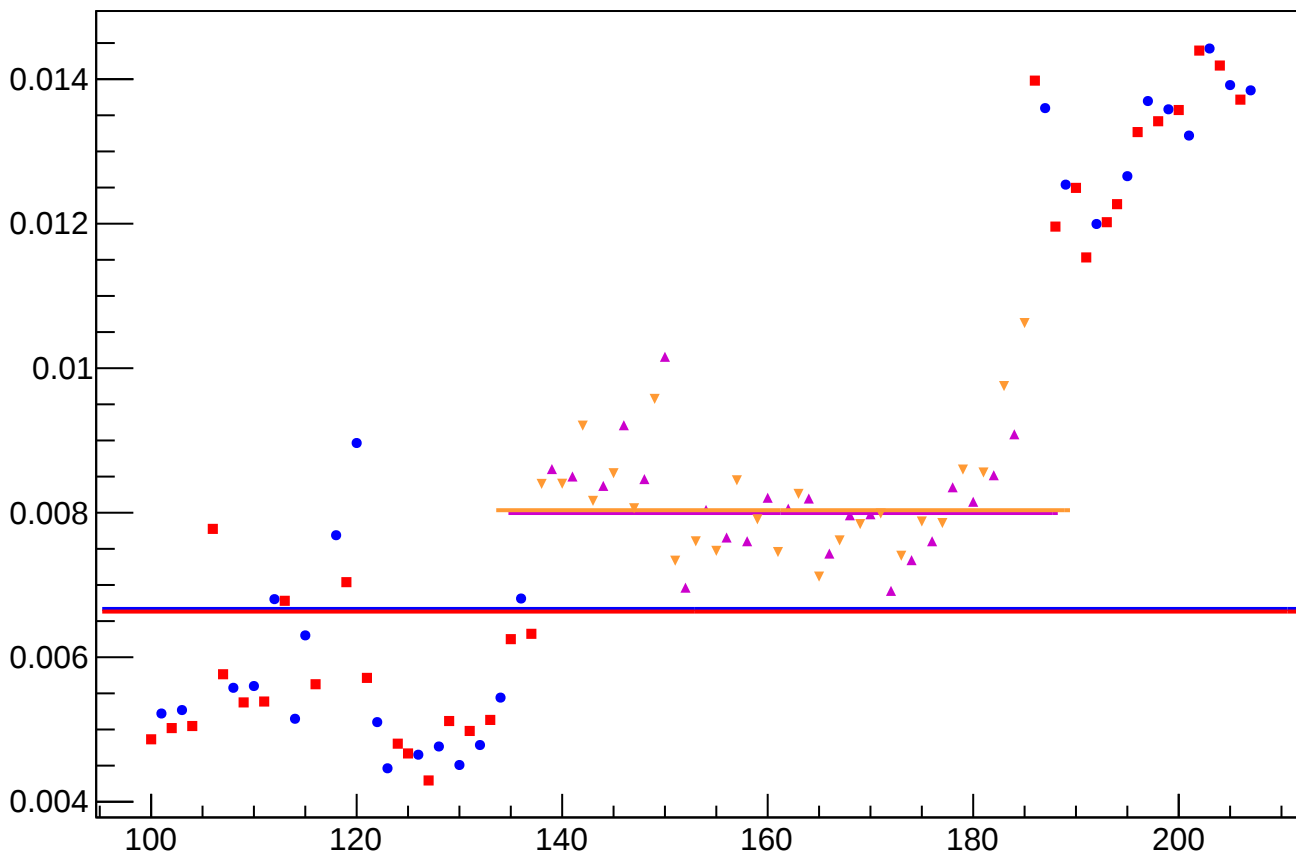
Right: -5.965 $\pm$ 0.000 χ^2 /NDF: 31385641999.3/57

In: -6.043 $\pm$ 0.000 χ^2 /NDF: 178051242833.1/49

Out: -6.053 $\pm$ 0.000 χ^2 /NDF: 206155668894.5/55

All: -6.049 $\pm$ 0.000 χ^2 /NDF: 384231948220.7

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4455499.6/26

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4729155.4/30

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

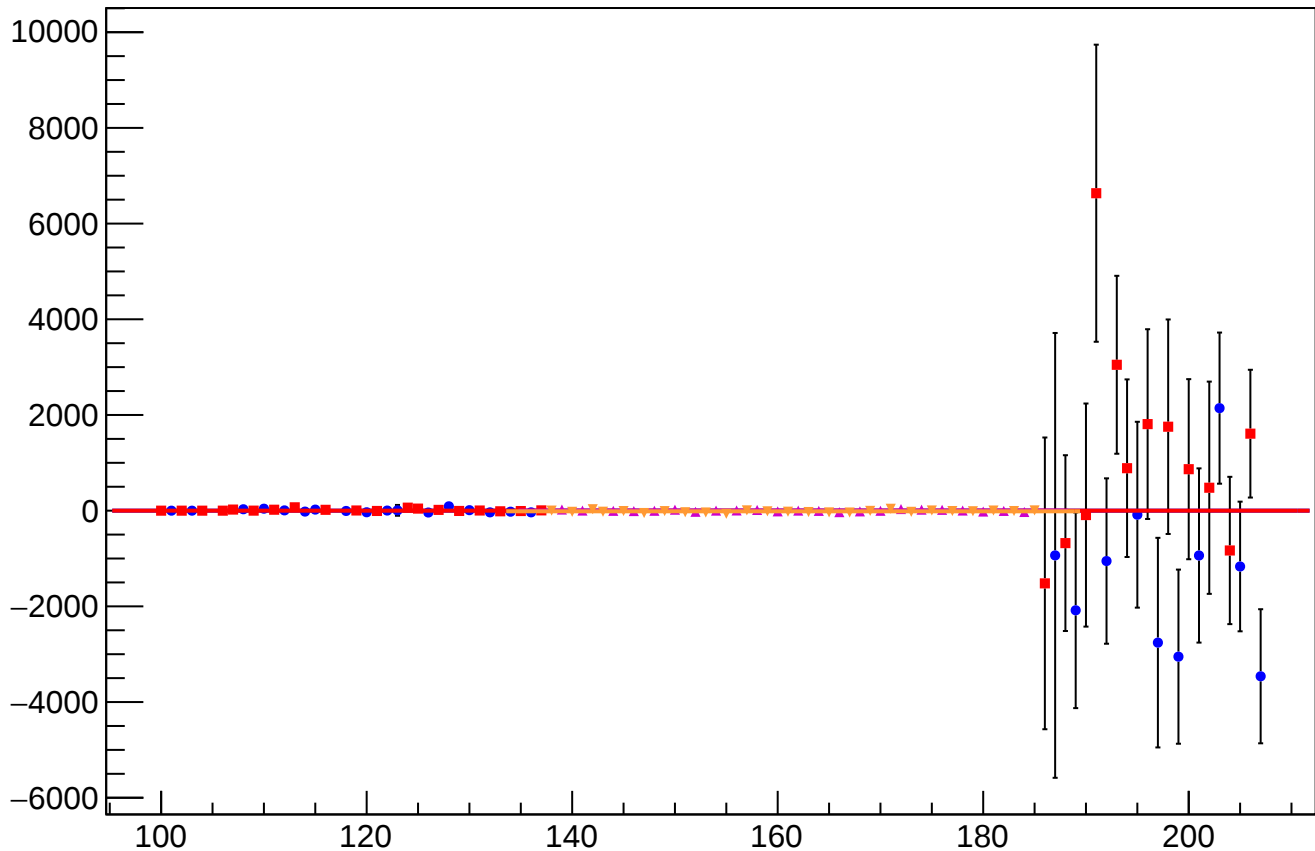
Right: 0.007+/-0.000 χ^2/NDF : 9184991.0/57

In: 0.007+/-0.000 χ^2/NDF :5106914.1/49

Out: 0.007+/-0.000 χ^2/NDF :5452523.6/55

All: 0.007+/-0.000 χ^2/NDF : 10559745.2/105

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 31.1/26

Left Out: -13.472 ± 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 ± 0.016 χ^2/NDF : 26.3/30

Left In: 0.489 ± 2.905 χ^2/NDF : 28.7/22

Left: -6.758 ± 2.015 χ^2/NDF : 99.2/47

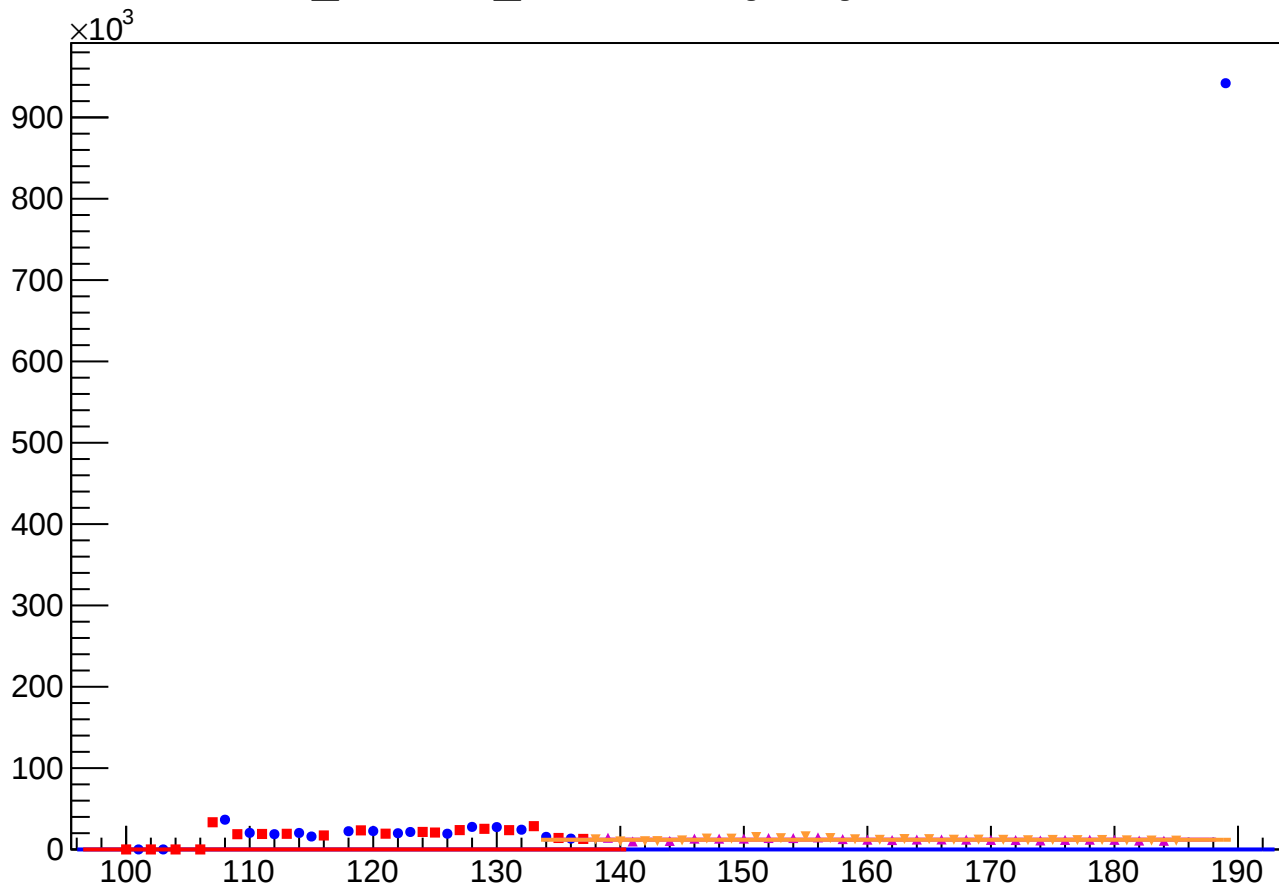
Right: 0.004 ± 0.012 χ^2/NDF : 57.8/57

In: 0.013 ± 0.017 χ^2/NDF : 59.8/49

Out: -0.004 ± 0.016 χ^2/NDF : 107.9/55

All: 0.004 ± 0.012 χ^2/NDF : 168.2/105

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

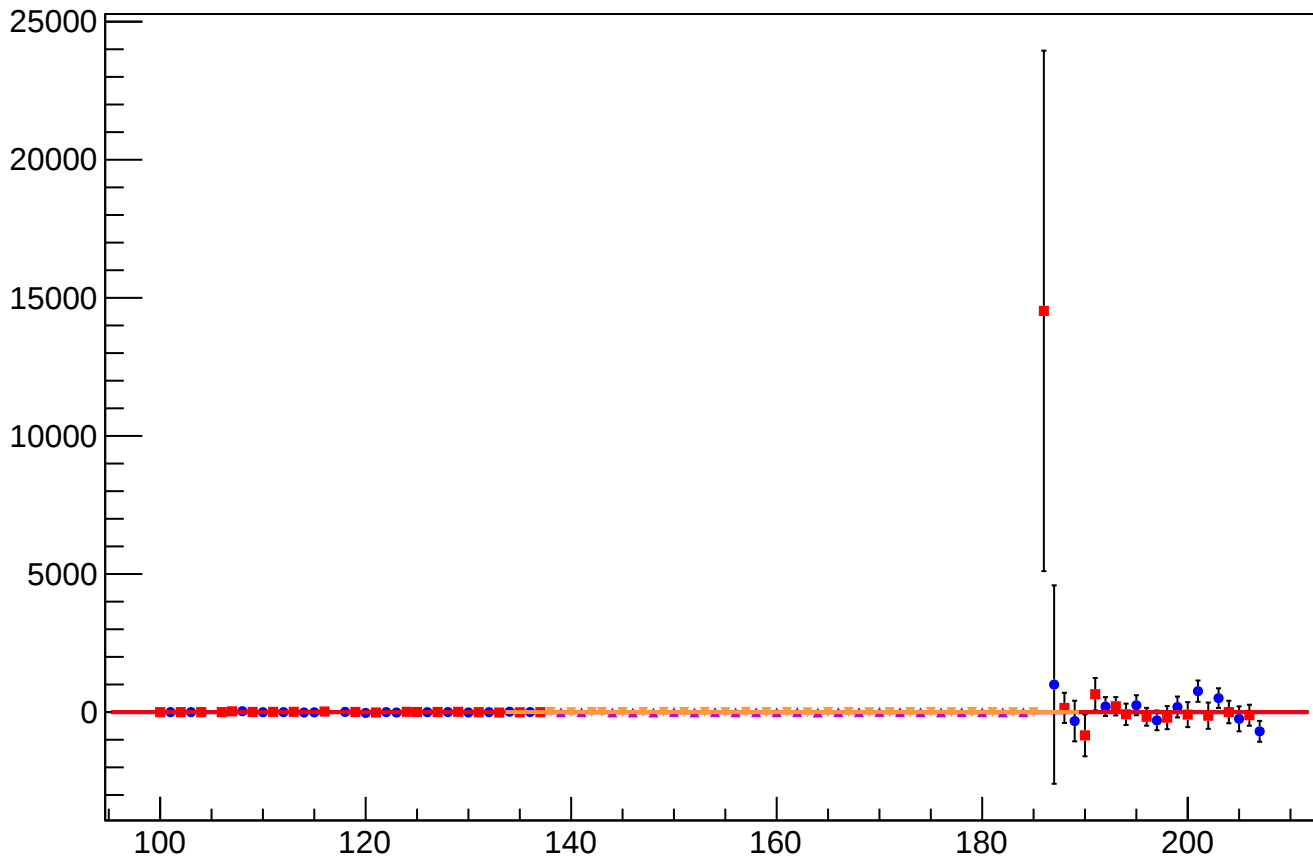
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 26.2/26

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.7/30

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

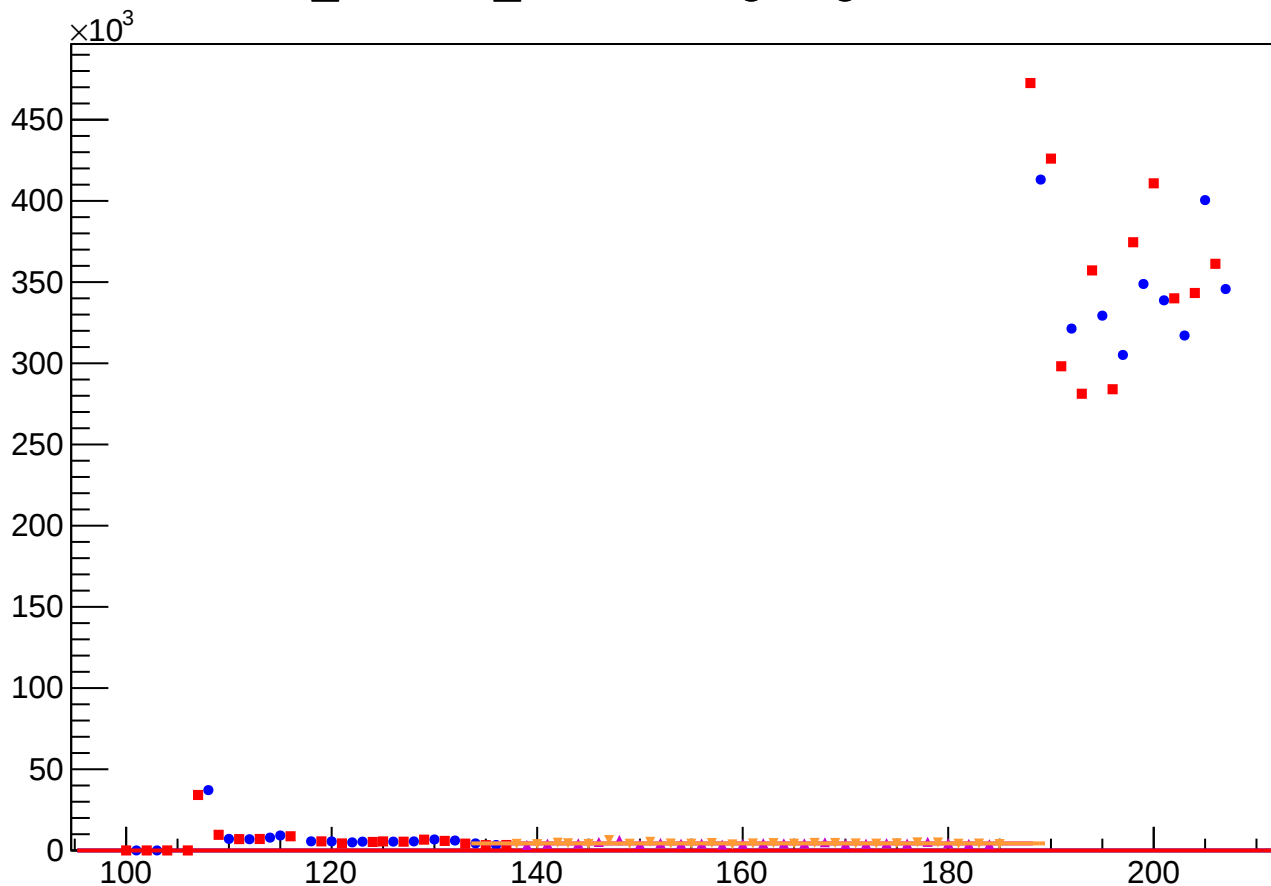
Right: -0.007 ± 0.006 χ^2/NDF : 52.3/57

In: 0.001 ± 0.009 χ^2/NDF : 62.5/49

Out: -0.014 ± 0.009 χ^2/NDF : 45.3/55

All: -0.007 ± 0.006 χ^2/NDF : 109.2/105

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939+/-0.007 χ^2/NDF : 24490196.5/25

Left Out: 4350.545+/-0.722 χ^2/NDF :384749.0/24

Right Out: 9.855+/-0.006 χ^2/NDF : 25899222.3/29

Left In: 4314.568+/-0.738 χ^2/NDF :534594.3/22

Left: 4332.940+/-0.516 χ^2/NDF : 920558.3/47

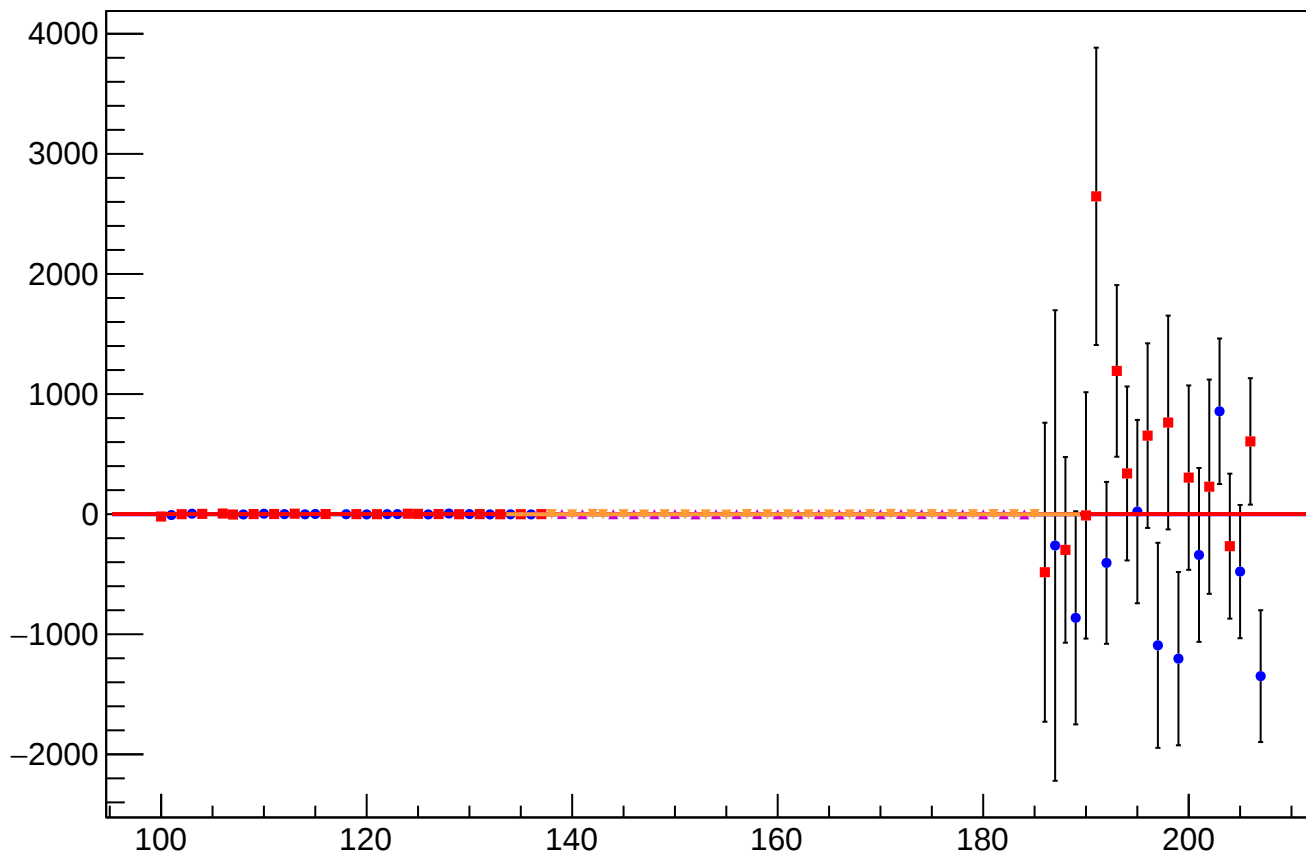
Right: 9.895+/-0.004 χ^2/NDF : 50389507.1/55

In: 10.274+/-0.007 χ^2/NDF :59086202.3/48

Out: 10.167+/-0.006 χ^2/NDF :62428929.2/54

All: 10.217+/-0.004 χ^2/NDF : 121515275.9/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.704 ± 0.485 χ^2/NDF : 37.2/26

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 ± 0.502 χ^2/NDF : 22.8/30

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

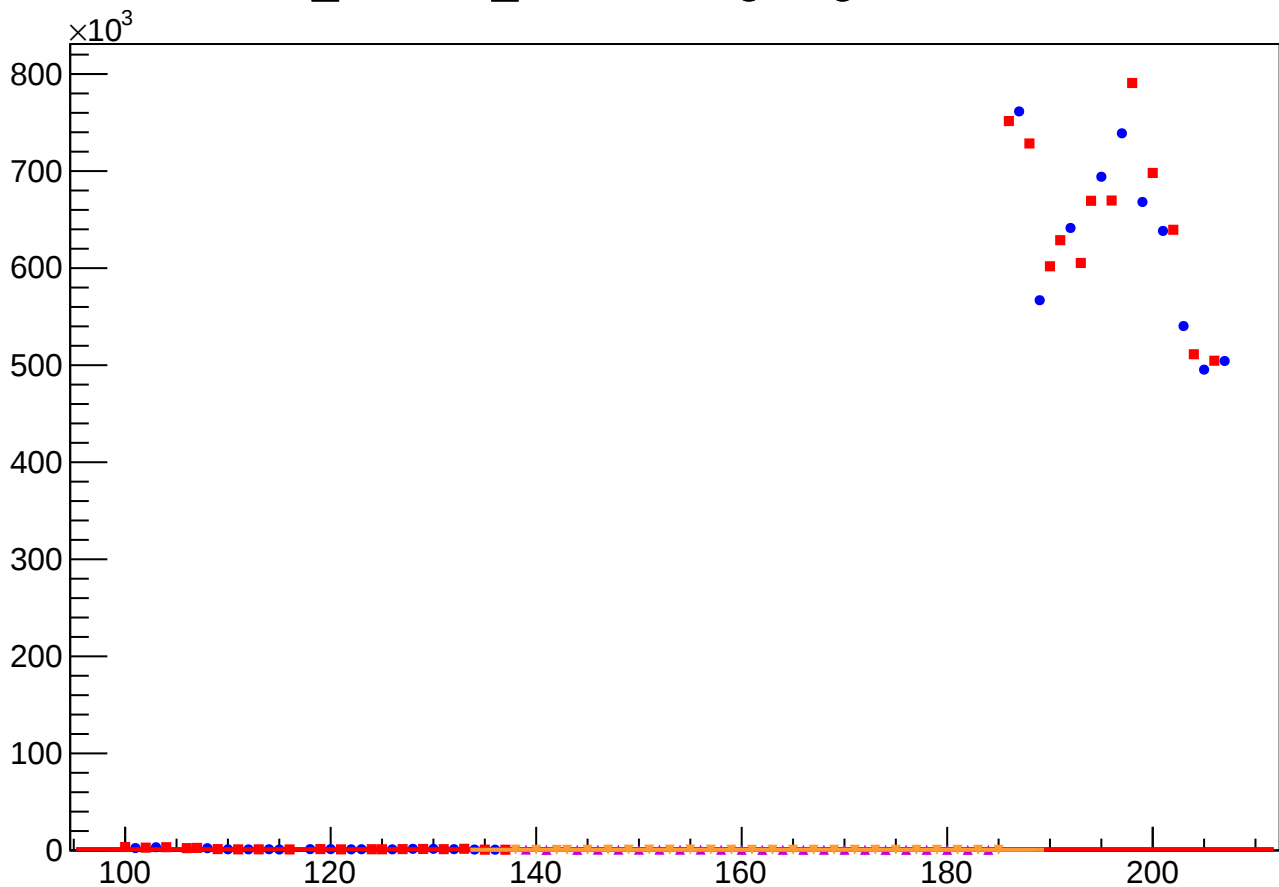
Right: 0.004 ± 0.349 χ^2/NDF : 64.5/57

In: -0.059 ± 0.161 χ^2/NDF : 68.4/49

Out: -0.626 ± 0.156 χ^2/NDF : 89.7/55

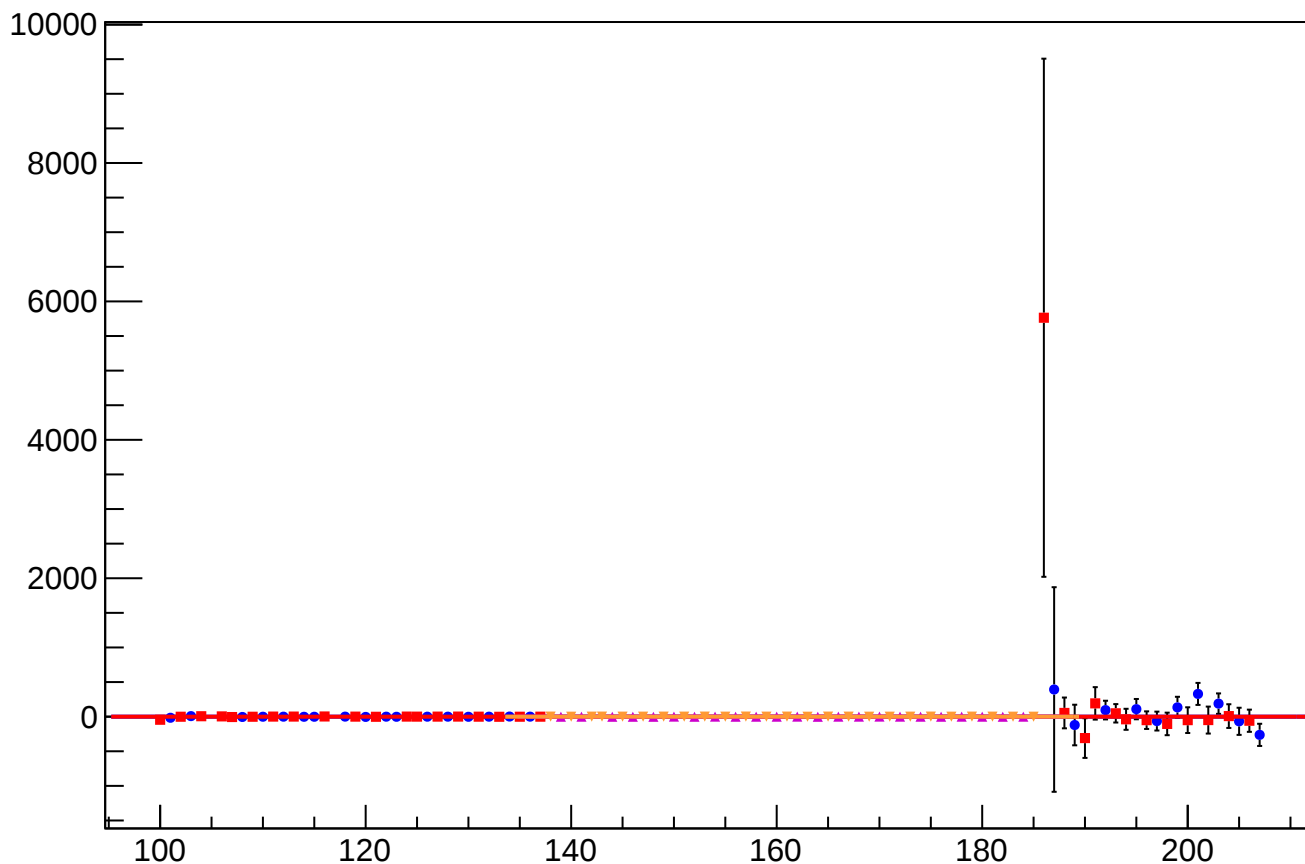
All: -0.350 ± 0.112 χ^2/NDF : 164.5/105

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1166.979+/-0.343	χ^2/NDF : 15749855.8/26	Left: 703.766+/-0.084	χ^2/NDF : 732052.1/47
Left Out: 700.797+/-0.116	χ^2/NDF : 392521.4/24	Right: 1208.212+/-0.247	χ^2/NDF : 33174590.2/57
Right Out: 1252.399+/-0.355	χ^2/NDF : 17394789.0/30	In: 757.347+/-0.114	χ^2/NDF : 17690181.1/49
Left In: 706.950+/-0.120	χ^2/NDF : 338177.1/22	Out: 754.150+/-0.110	χ^2/NDF : 19967704.7/55
		All: 755.705+/-0.079	χ^2/NDF : 37658293.4/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.058 ± 0.271 χ^2/NDF : 31.9/26

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 26.0/30

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

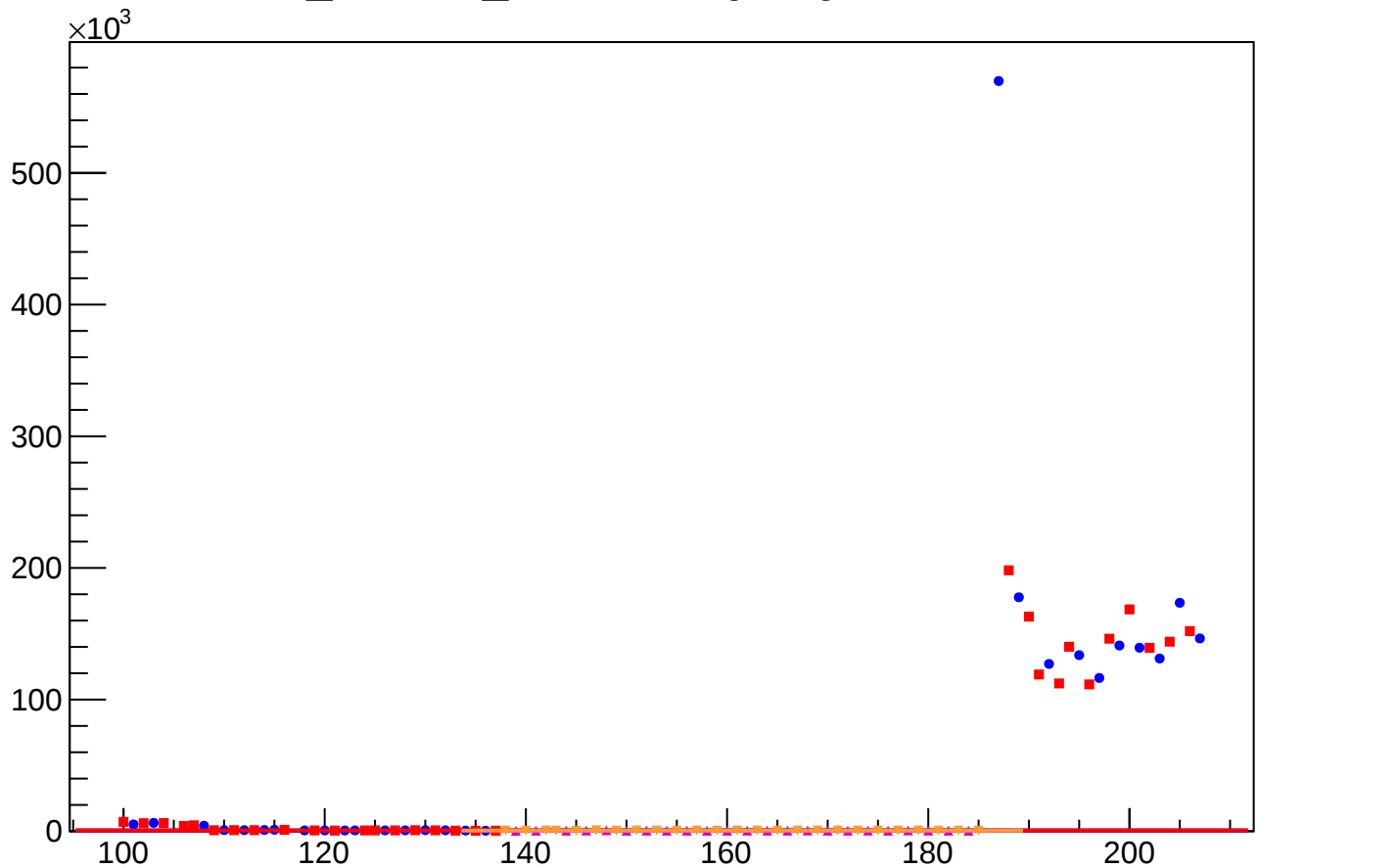
Right: -0.154 ± 0.189 χ^2/NDF : 58.2/57

In: -0.105 ± 0.114 χ^2/NDF : 66.9/49

Out: 0.151 ± 0.111 χ^2/NDF : 46.3/55

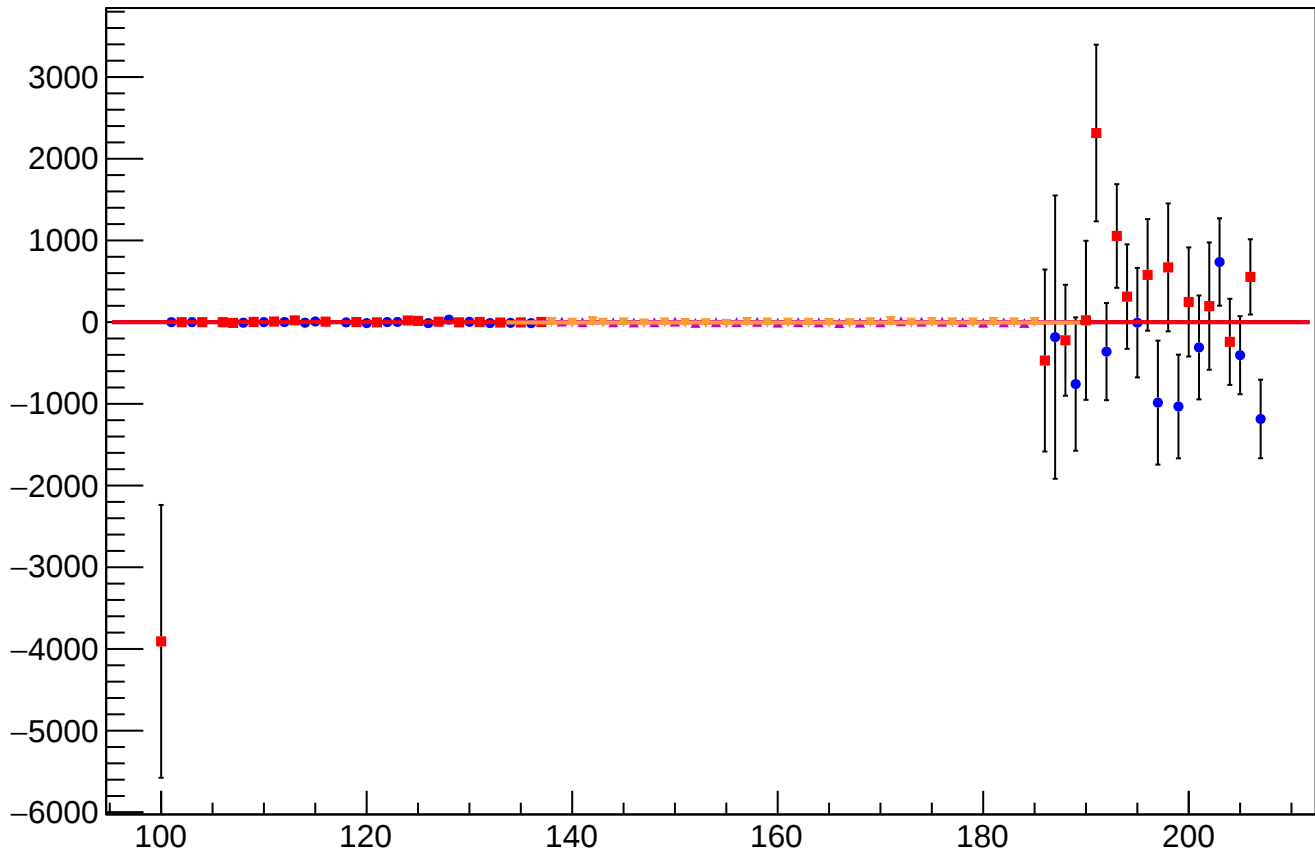
All: 0.026 ± 0.080 χ^2/NDF : 115.8/105

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 612.201+/-0.191	χ^2/NDF : 16996942.5/26	Left: 521.193+/-0.062	χ^2/NDF : 776728.3/47
Left Out: 522.416+/-0.087	χ^2/NDF : 331573.1/24	Right: 607.693+/-0.134	χ^2/NDF : 35334007.1/56
Right Out: 603.374+/-0.187	χ^2/NDF : 18335977.4/29	In: 536.249+/-0.081	χ^2/NDF : 17633202.3/49
Left In: 519.909+/-0.089	χ^2/NDF : 444746.3/22	Out: 536.680+/-0.079	χ^2/NDF : 18821503.0/54
		All: 536.470+/-0.056	χ^2/NDF : 36454720.0/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 30.1/26

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 28.0/30

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

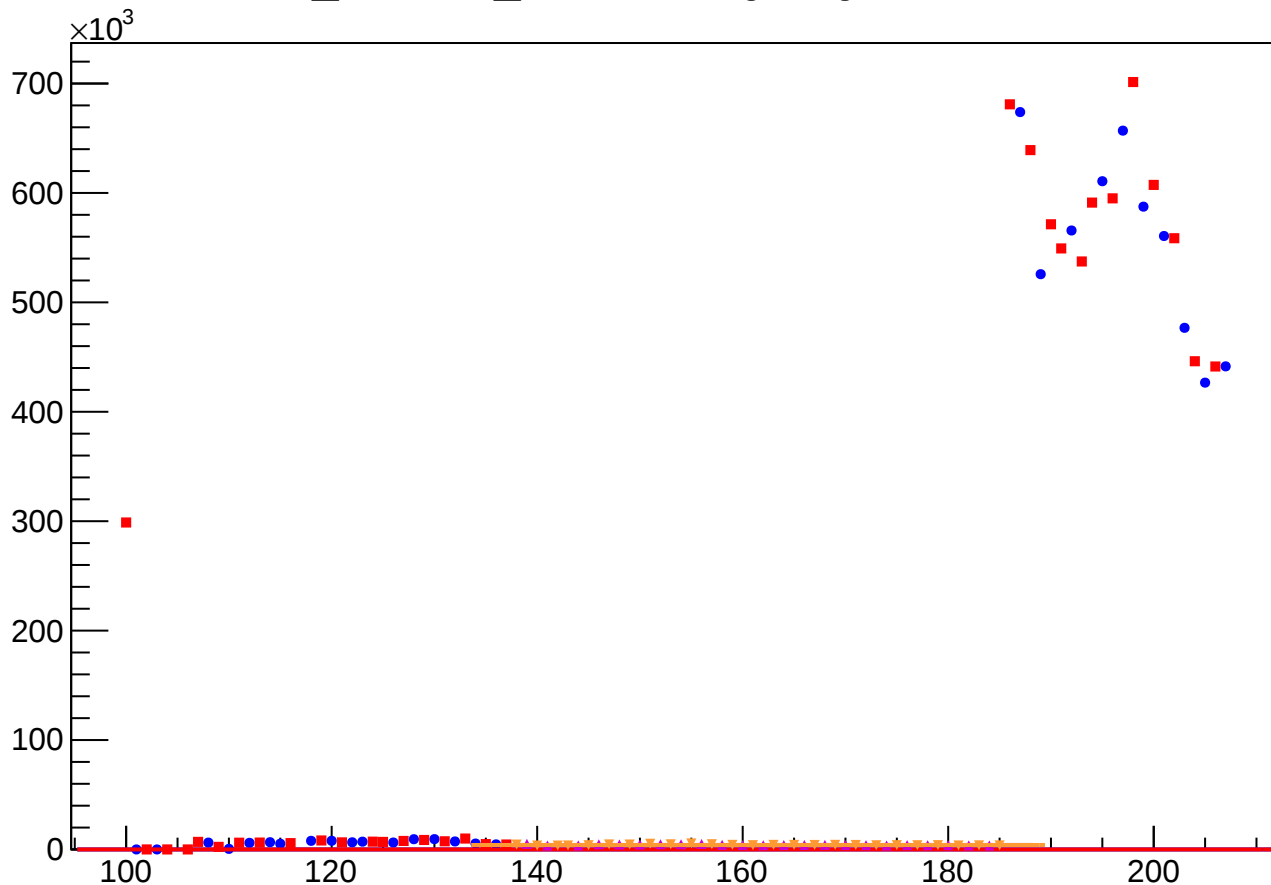
Right: 0.004+/-0.014 χ^2/NDF : 61.0/57

In: -0.022+/-0.021 χ^2/NDF : 59.4/49

Out: 0.025+/-0.020 χ^2/NDF : 108.4/55

All: 0.003+/-0.014 χ^2/NDF : 170.4/105

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.341+/-0.015 χ^2 /NDF: 24563533.6/26

Left Out: 4074.257+/-0.676 χ^2 /NDF:416916.0/24

Right Out: 17.273+/-0.014 χ^2 /NDF: 26683658.8/30

Left In: 4113.744+/-0.700 χ^2 /NDF:354965.8/22

Left: 4093.298+/-0.486 χ^2 /NDF: 773528.6/47

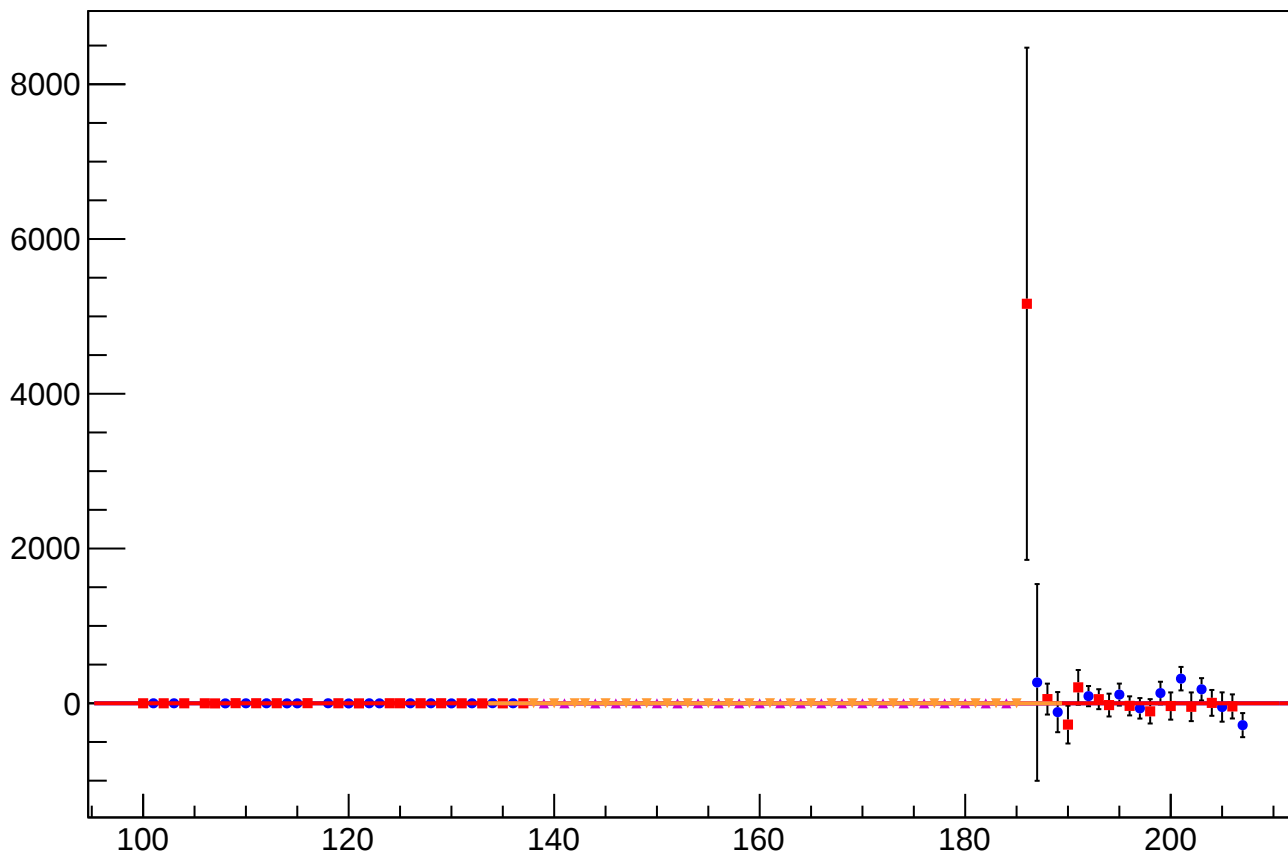
Right: 17.305+/-0.010 χ^2 /NDF: 51247203.9/57

In: 19.147+/-0.015 χ^2 /NDF:59132685.2/49

Out: 19.010+/-0.014 χ^2 /NDF:63136556.0/55

All: 19.075+/-0.010 χ^2 /NDF: 122269287.0/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 27.1/26

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 23.6/30

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

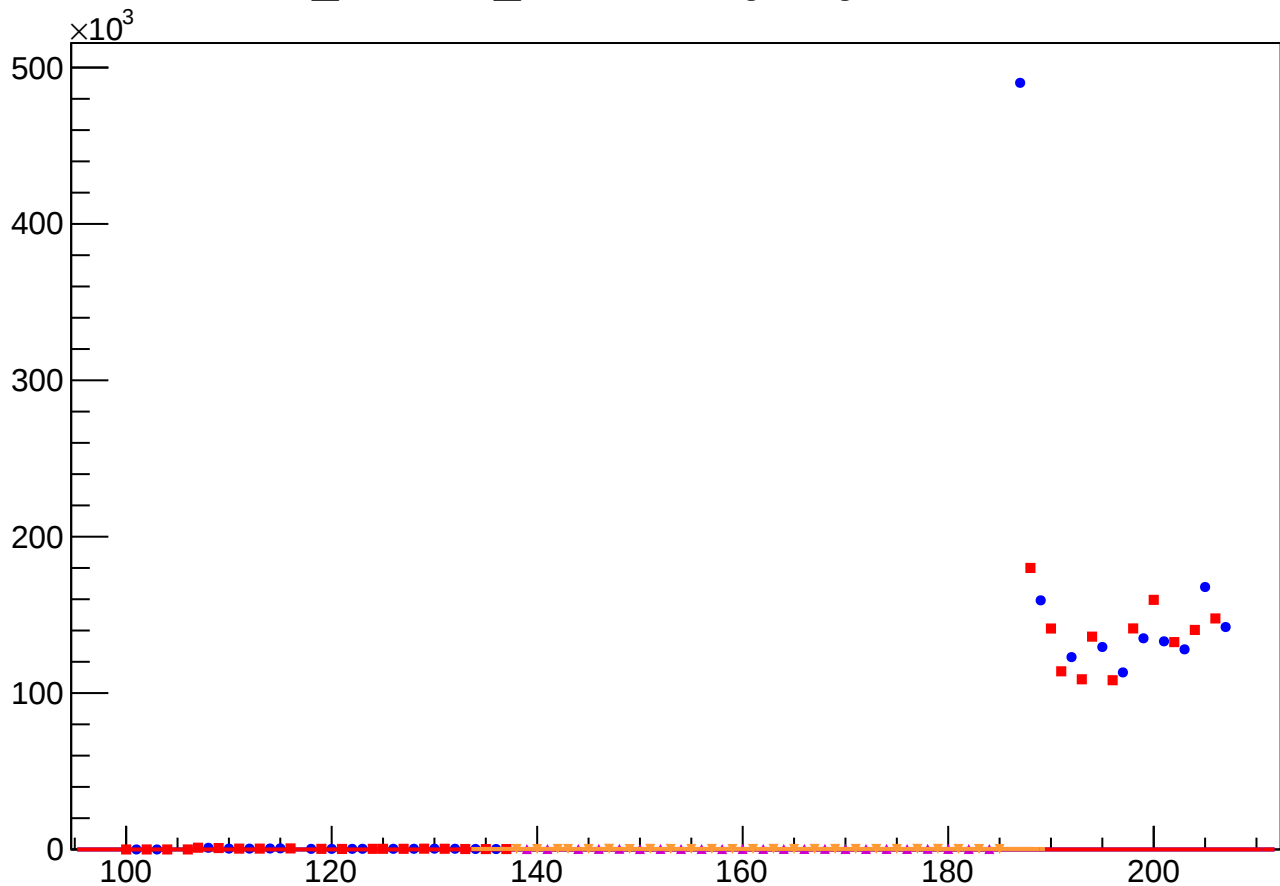
Right: -0.000 ± 0.001 χ^2/NDF : 50.8/57

In: 0.000 ± 0.002 χ^2/NDF : 62.8/49

Out: -0.001 ± 0.002 χ^2/NDF : 44.3/55

All: -0.000 ± 0.001 χ^2/NDF : 107.2/105

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 24869296.6/26

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 25662898.9/29

Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47

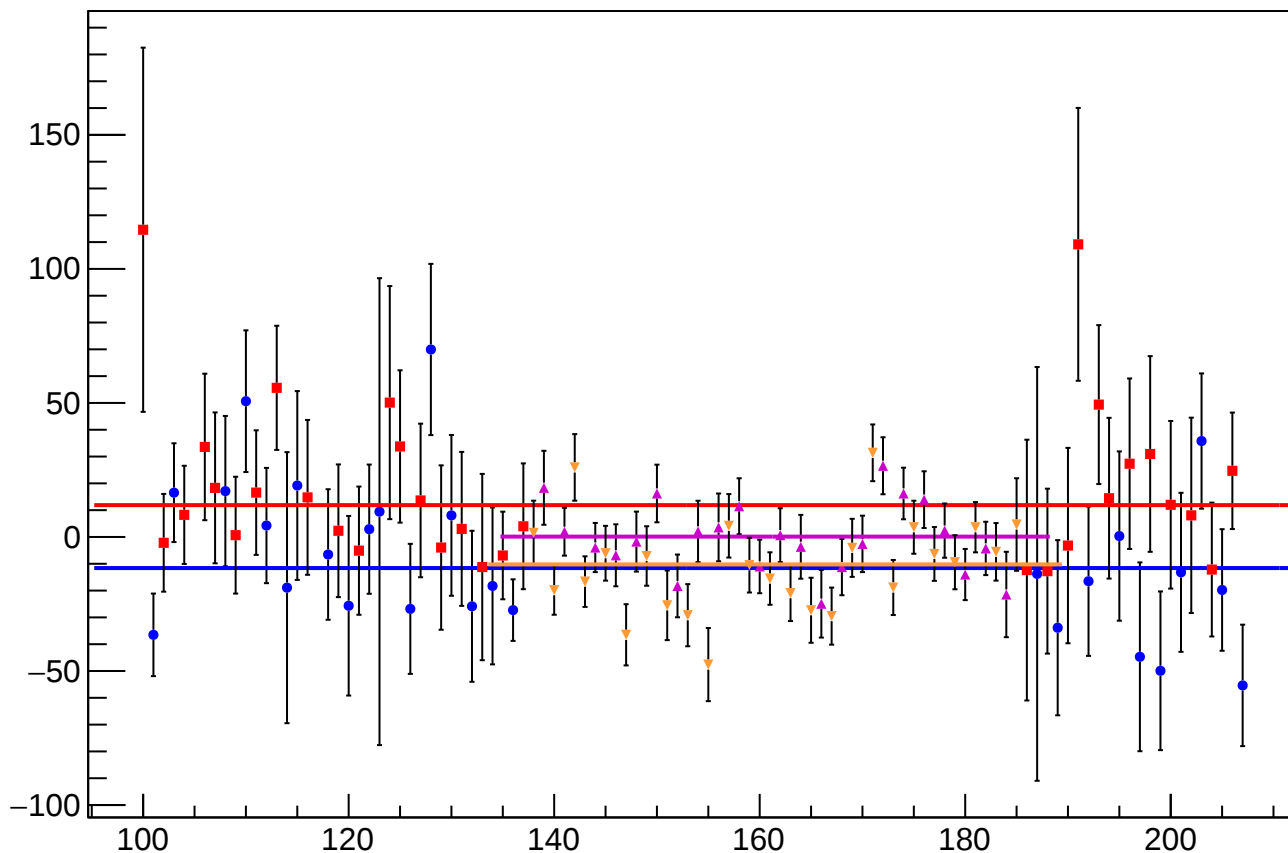
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 50532422.3/56

In: 1.914 $\pm$ 0.001 χ^2 /NDF:59272718.1/49

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:61970706.9/54

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 121243562.7/104

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -11.593 $\pm$ 4.800 χ^2/NDF : 33.6/26

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 11.881 $\pm$ 4.824 χ^2/NDF : 19.9/30

Left In: 0.130 $\pm$ 2.242 χ^2/NDF : 29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

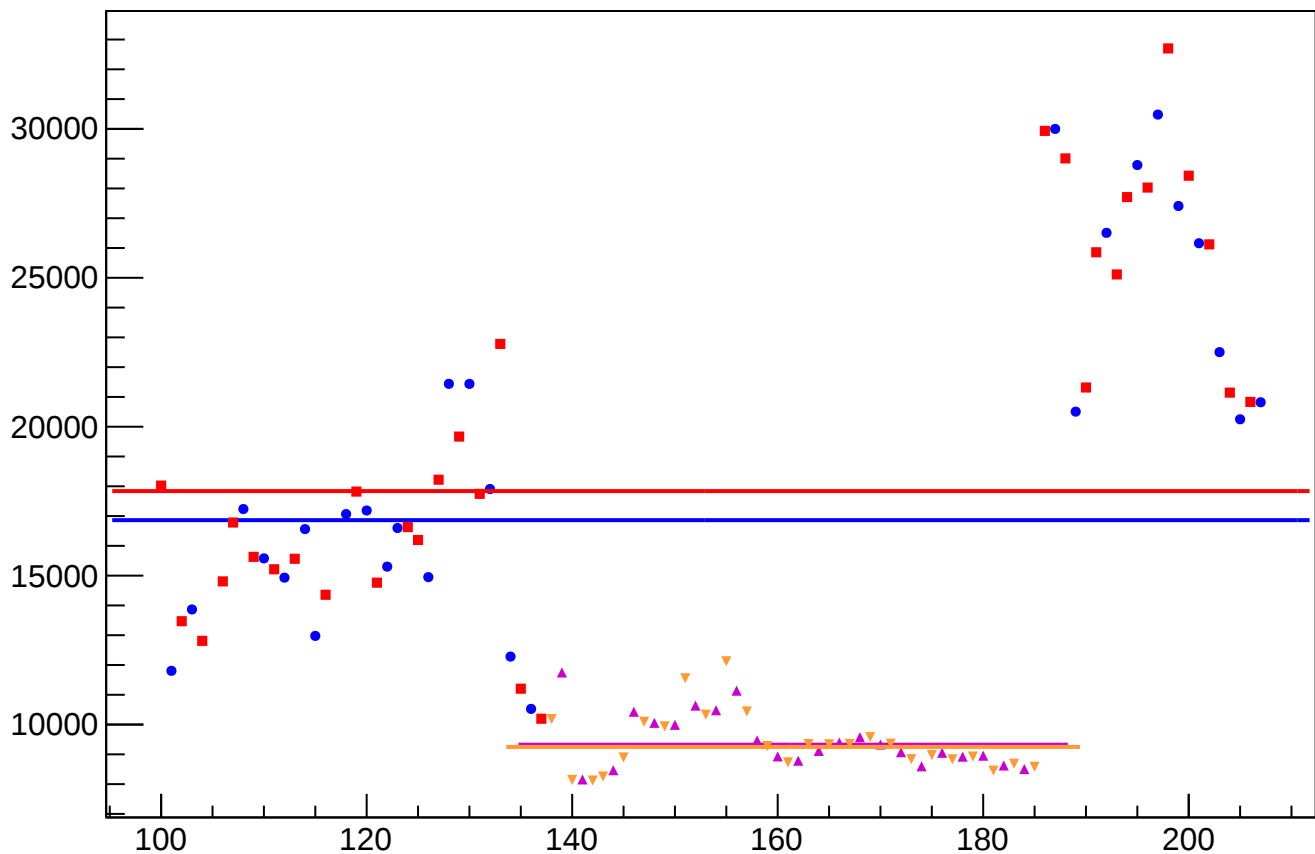
Right: 0.085 $\pm$ 3.403 χ^2/NDF : 65.4/57

In: -1.970 $\pm$ 2.032 χ^2/NDF : 68.3/49

Out: -6.523 $\pm$ 1.976 χ^2/NDF : 95.3/55

All: -4.309 $\pm$ 1.417 χ^2/NDF : 166.3/105

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16862.705 $\pm$ 3.394 χ^2 /NDF: 2646622.1/26

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17839.216 $\pm$ 3.411 χ^2 /NDF: 2753747.7/30

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

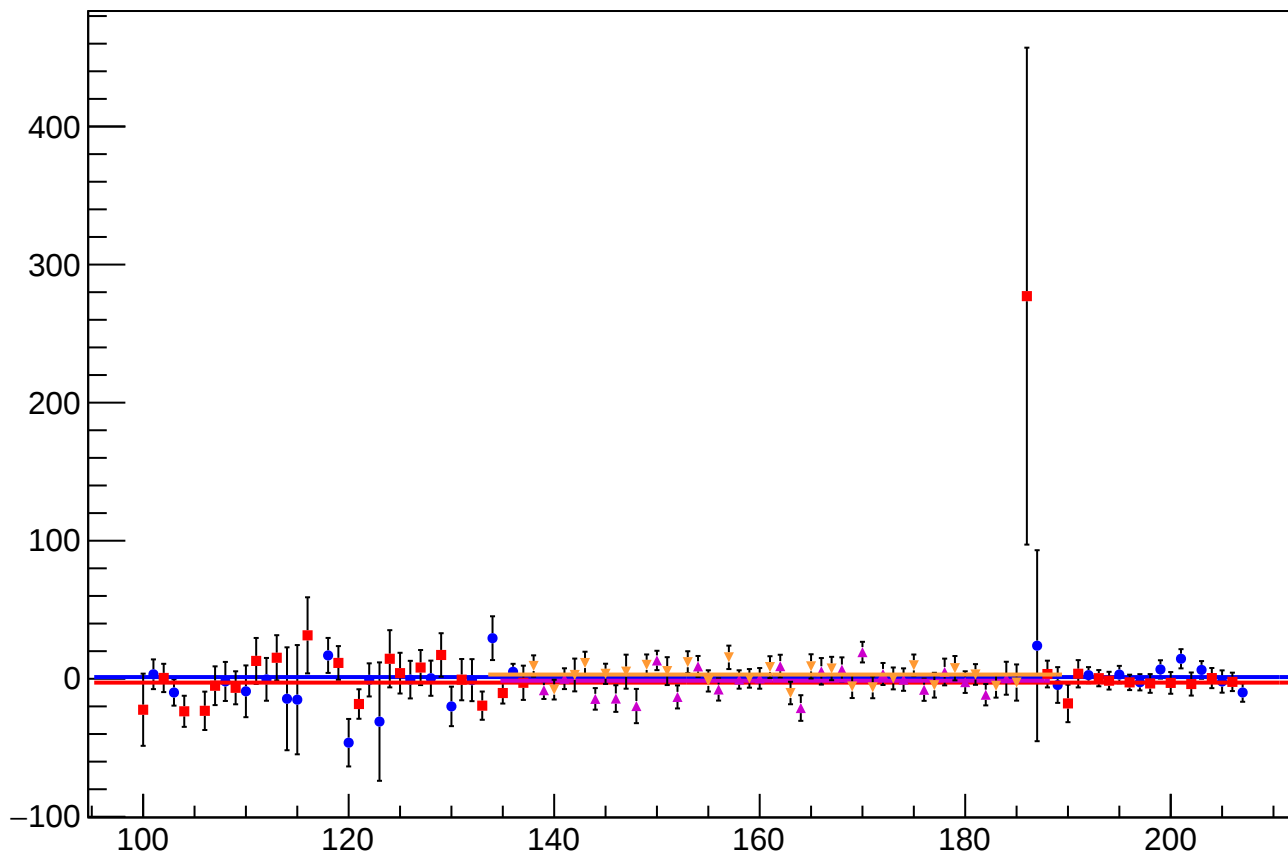
Right: 17348.536 $\pm$ 2.406 χ^2 /NDF: 5441546.5/57

In: 10675.109 $\pm$ 1.436 χ^2 /NDF:6975580.0/49

Out: 10691.170 $\pm$ 1.398 χ^2 /NDF:8362299.9/55

All: 10683.360 $\pm$ 1.002 χ^2 /NDF: 15337944.1

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.241 ± 1.826 χ^2/NDF : 26.5/26

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -2.778 ± 1.767 χ^2/NDF : 25.5/30

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

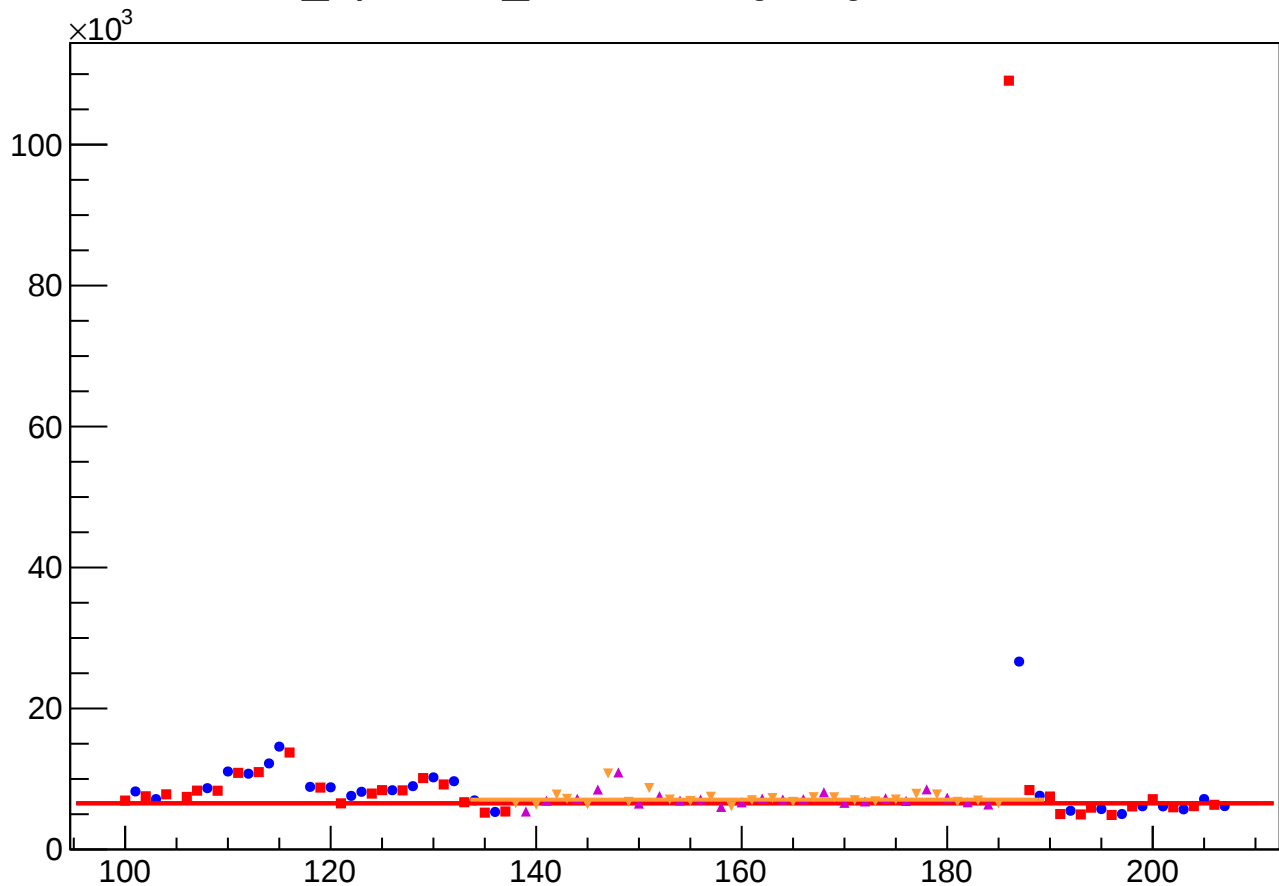
Right: -0.835 ± 1.270 χ^2/NDF : 54.5/57

In: -0.176 ± 1.242 χ^2/NDF : 63.0/49

Out: 0.326 ± 1.209 χ^2/NDF : 49.6/55

All: 0.081 ± 0.866 χ^2/NDF : 112.6/105

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6545.617 ± 1.291 $\chi^2/\text{NDF}: 1519955.7/26$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6554.334 ± 1.249 $\chi^2/\text{NDF}: 2101636.0/30$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

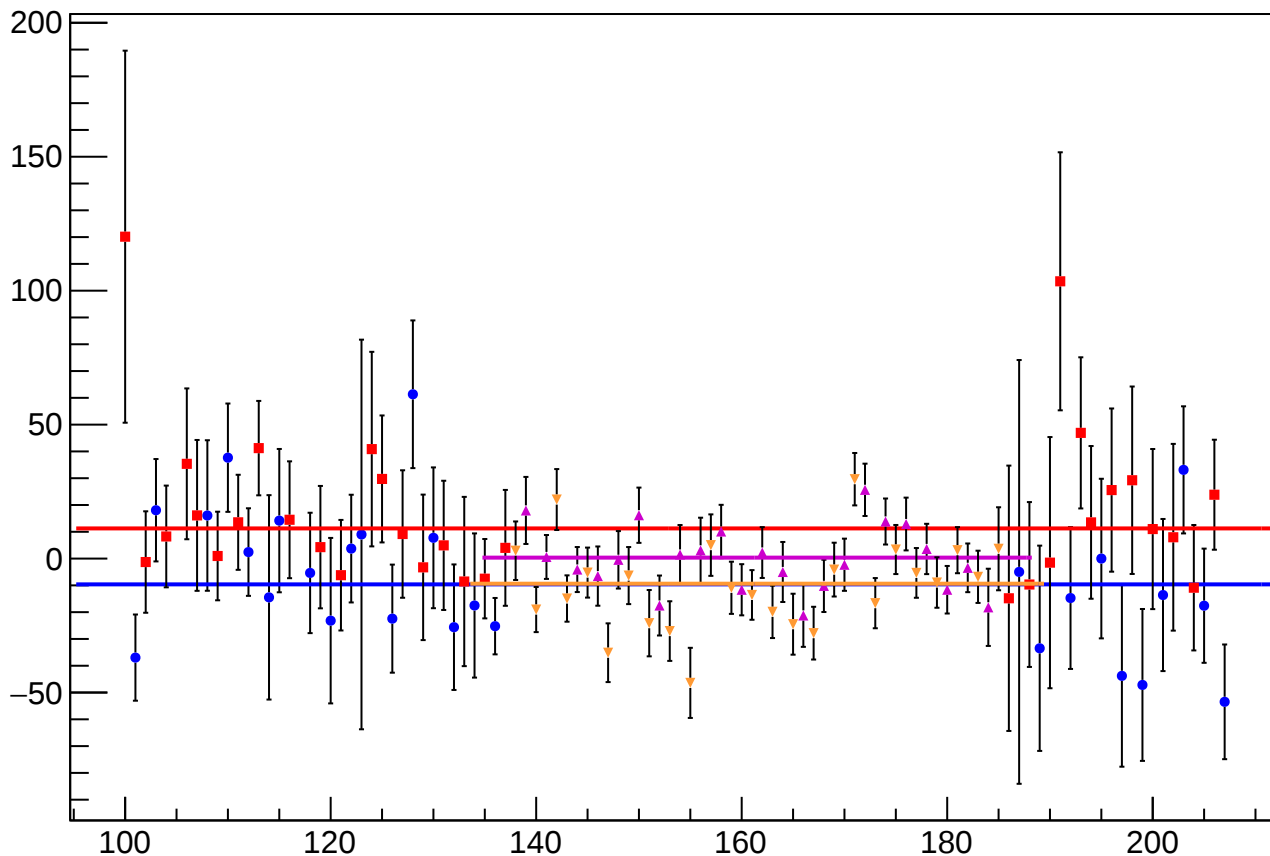
Right: 6550.119 ± 0.898 $\chi^2/\text{NDF}: 3621615.3/57$

In: 6790.205 ± 0.878 $\chi^2/\text{NDF}: 2136734.3/49$

Out: 6826.698 ± 0.855 $\chi^2/\text{NDF}: 2578530.1/55$

All: 6808.931 ± 0.613 $\chi^2/\text{NDF}: 4716151.1/10$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.627 ± 4.377 χ^2/NDF : 34.5/26

Left Out: -9.376 ± 2.018 χ^2/NDF : 58.4/24

Right Out: 11.258 ± 4.357 χ^2/NDF : 19.4/30

Left In: 0.353 ± 2.092 χ^2/NDF : 29.6/22

Left: -4.688 ± 1.452 χ^2/NDF : 99.3/47

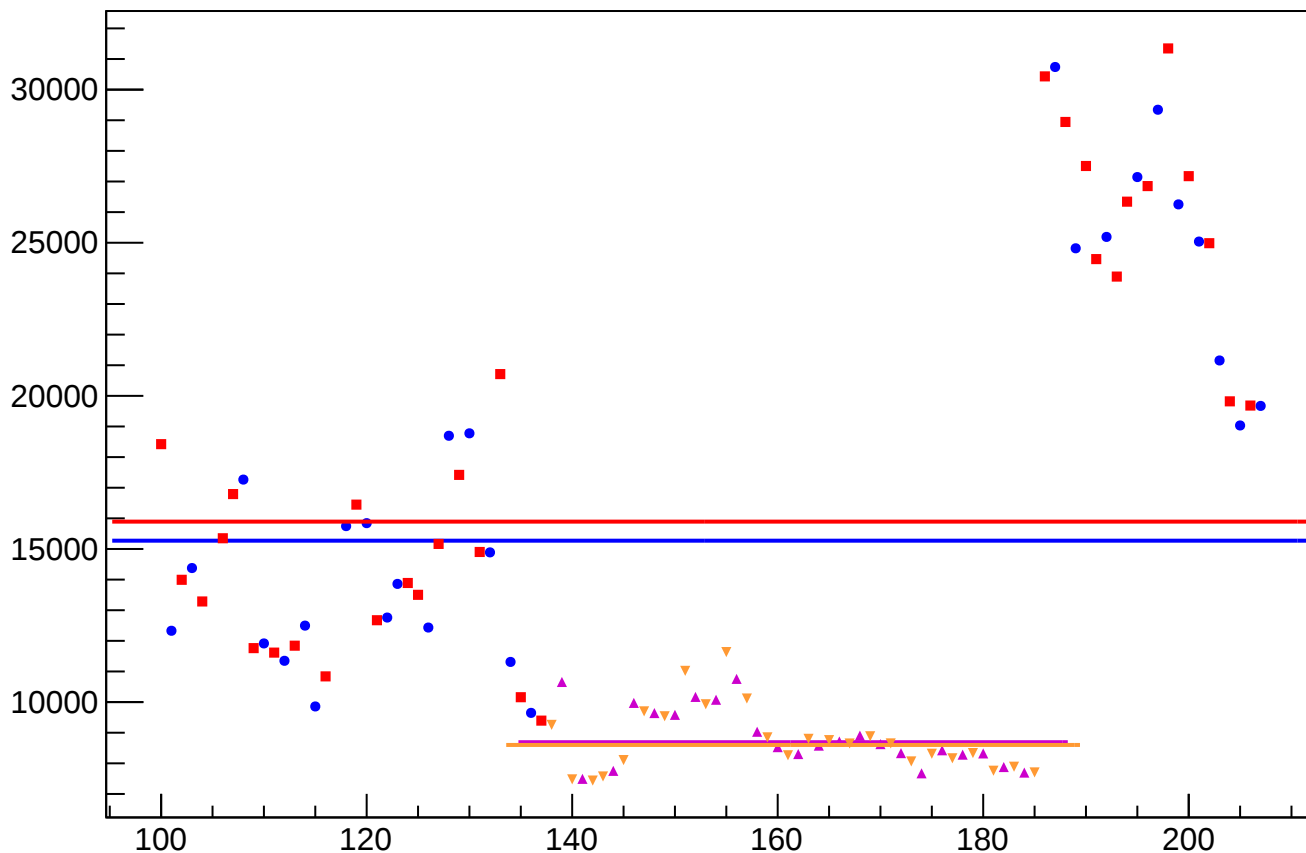
Right: 0.862 ± 3.088 χ^2/NDF : 65.3/57

In: -1.503 ± 1.888 χ^2/NDF : 68.4/49

Out: -5.733 ± 1.831 χ^2/NDF : 96.3/55

All: -3.682 ± 1.314 χ^2/NDF : 167.2/105

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15270.910 $\pm$ 3.095 χ^2 /NDF: 3048948.6/26

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 15893.414 $\pm$ 3.081 χ^2 /NDF: 3474648.8/30

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

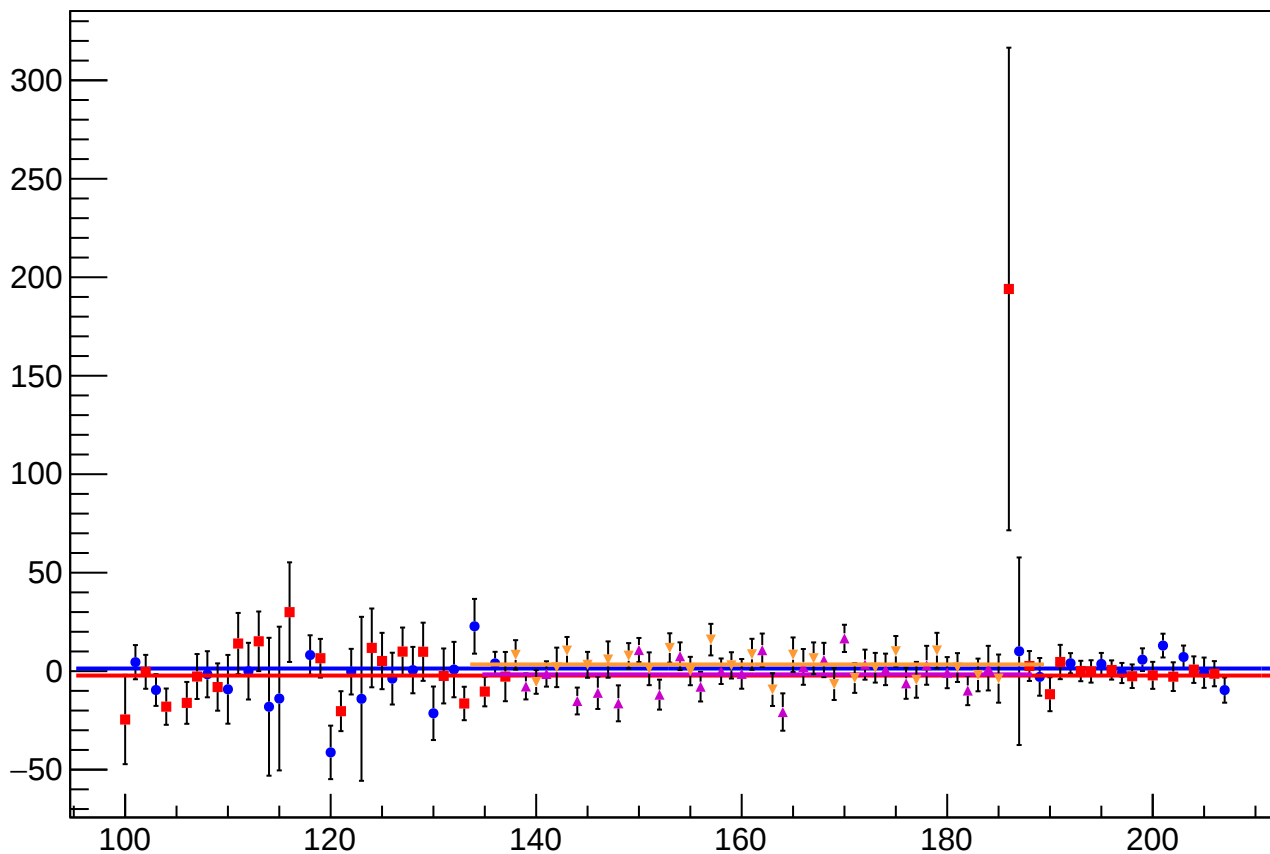
Right: 15583.553 $\pm$ 2.184 χ^2 /NDF: 6543914.9/57

In: 9914.160 $\pm$ 1.335 χ^2 /NDF:7099814.8/49

Out: 9888.114 $\pm$ 1.295 χ^2 /NDF:8526034.8/55

All: 9900.740 $\pm$ 0.929 χ^2 /NDF: 15626045.8/102

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.343 ± 1.634 χ^2/NDF : 28.1/26

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.224 ± 1.559 χ^2/NDF : 26.0/30

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

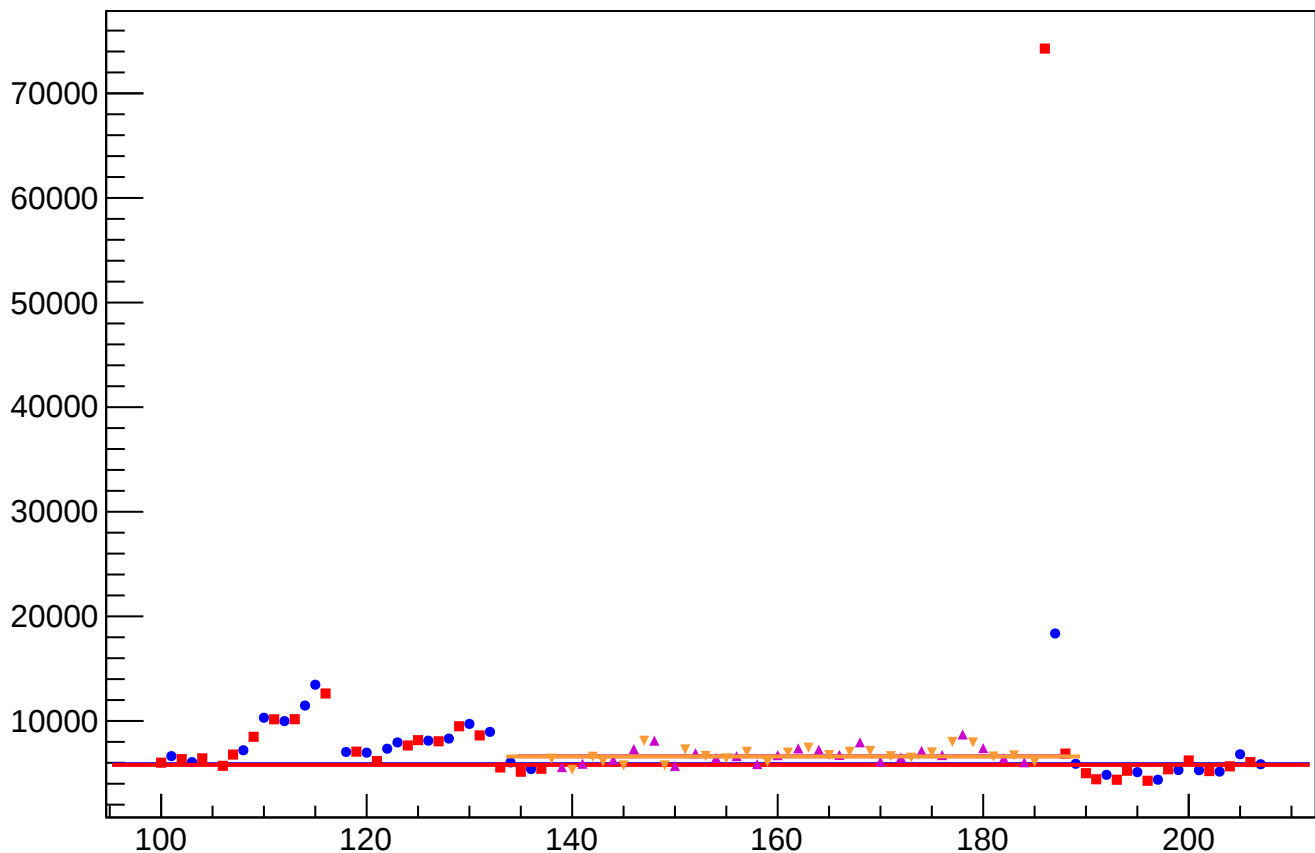
Right: -0.525 ± 1.128 χ^2/NDF : 56.6/57

In: -0.174 ± 1.143 χ^2/NDF : 63.2/49

Out: 0.606 ± 1.099 χ^2/NDF : 49.4/55

All: 0.231 ± 0.792 χ^2/NDF : 112.9/105

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.000+/-1.156

χ^2/NDF : 1486053.6/26

Left Out: 6607.100+/-1.096

χ^2/NDF : 398416.1/24

Right Out: 5803.686+/-1.102

χ^2/NDF : 2132974.5/30

Left In: 6628.653+/-1.131

χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

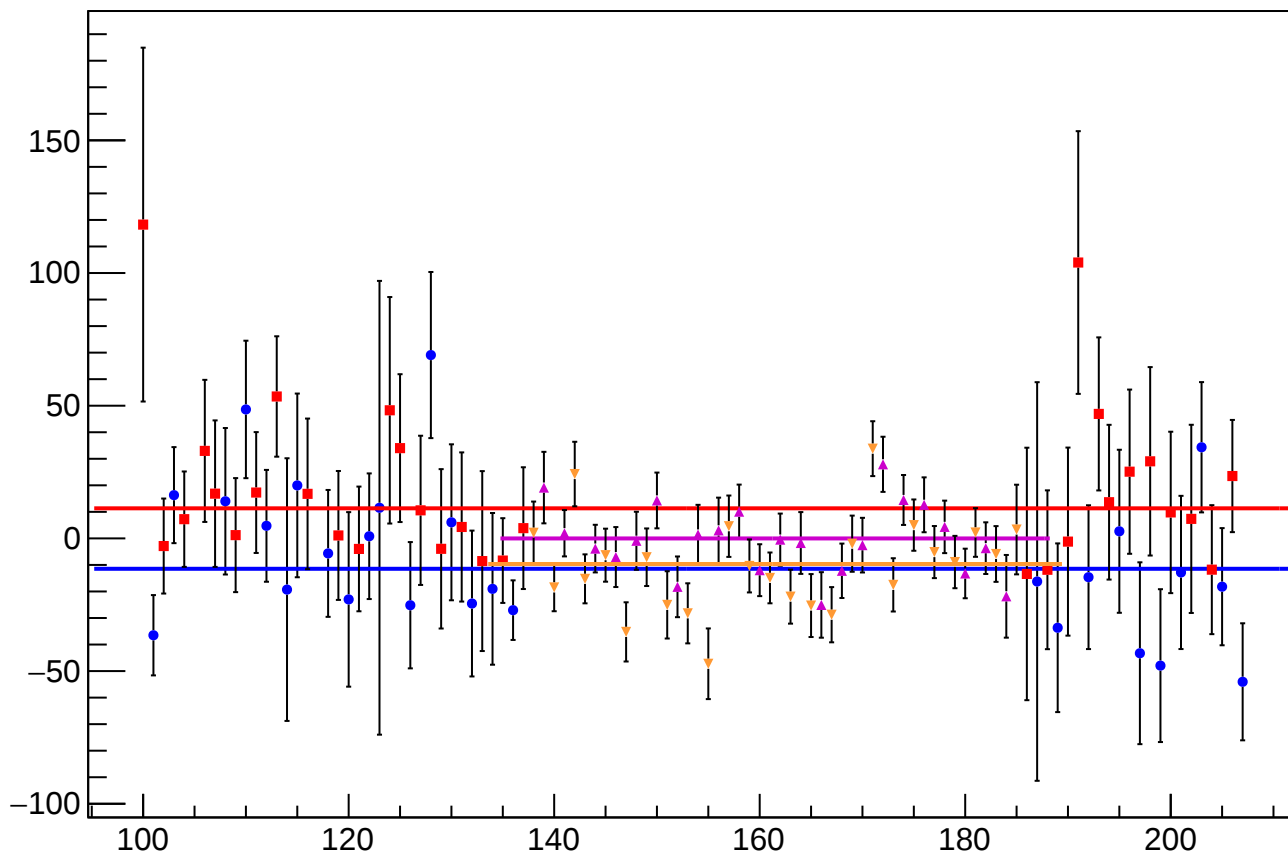
Right: 5835.279+/-0.798 χ^2/NDF : 3620752.5/57

In: 6257.554+/-0.808 χ^2/NDF : 2136531.1/49

Out: 6207.556+/-0.777 χ^2/NDF : 2798459.0/55

All: 6231.582+/-0.560 χ^2/NDF : 4936978.2/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.454 ± 4.696 χ^2/NDF : 33.3/26

Left Out: -9.649 ± 2.118 χ^2/NDF : 59.8/24

Right Out: 11.331 ± 4.720 χ^2/NDF : 19.8/30

Left In: -0.019 ± 2.192 χ^2/NDF : 30.6/22

Left: -4.999 ± 1.523 χ^2/NDF : 100.4/47

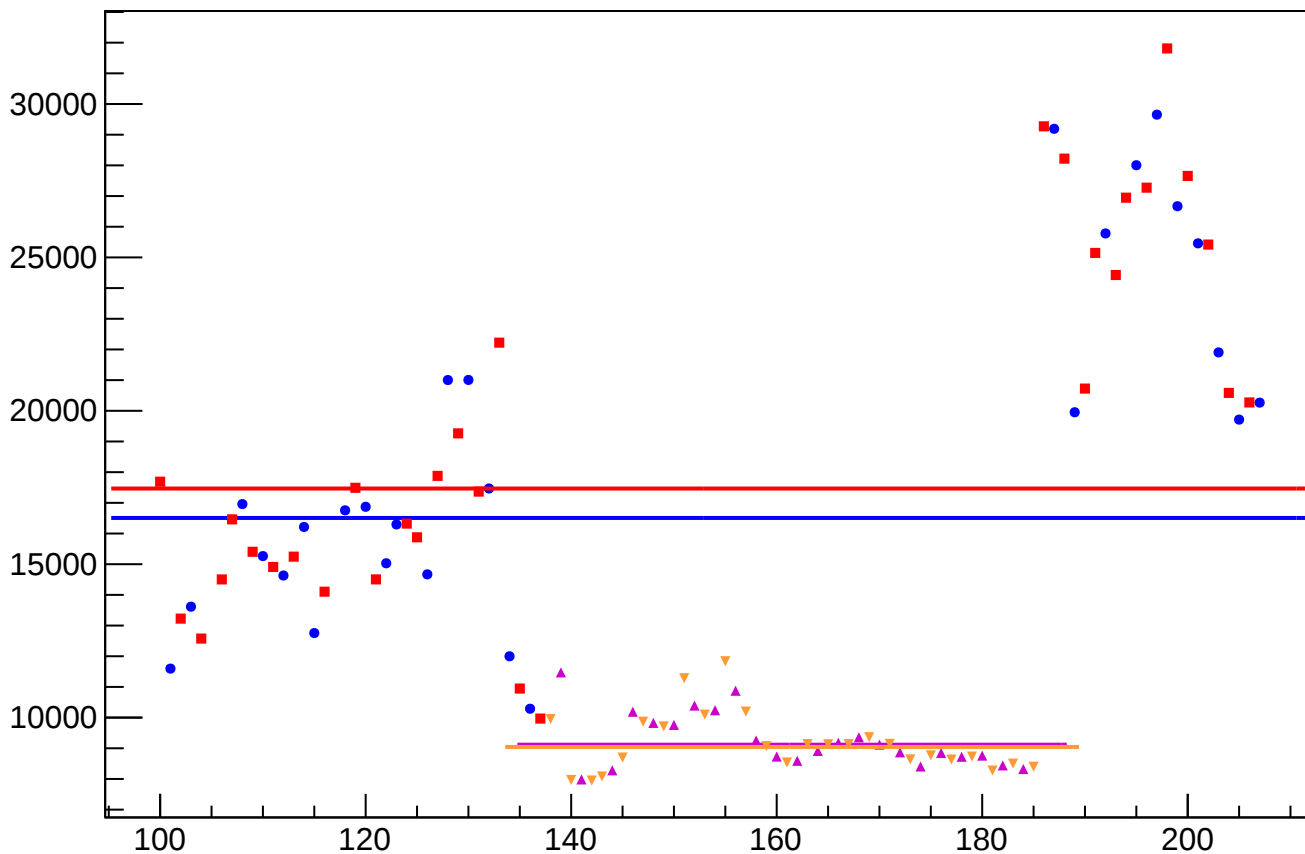
Right: -0.120 ± 3.329 χ^2/NDF : 64.8/57

In: -2.065 ± 1.986 χ^2/NDF : 68.8/49

Out: -6.131 ± 1.933 χ^2/NDF : 96.0/55

All: -4.154 ± 1.385 χ^2/NDF : 167.0/105

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16507.565 $\pm$ 3.320 χ^2 /NDF: 2608013.7/26

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17467.163 $\pm$ 3.337 χ^2 /NDF: 2707269.6/30

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF:277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

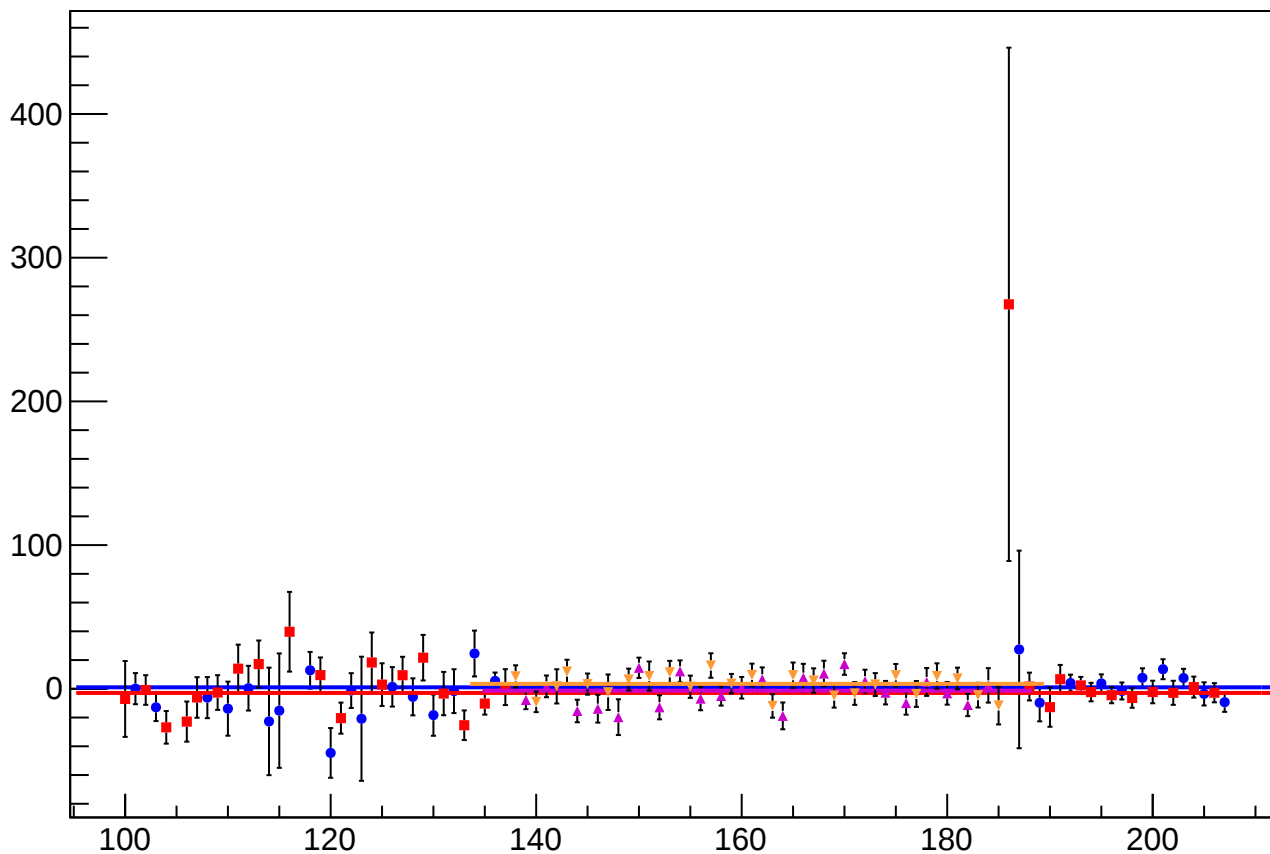
Right: 16984.914 $\pm$ 2.354 χ^2 /NDF: 5356834.6/57

In: 10439.340 $\pm$ 1.404 χ^2 /NDF:6953809.5/49

Out: 10455.830 $\pm$ 1.366 χ^2 /NDF:8338521.0/55

All: 10447.811 $\pm$ 0.979 χ^2 /NDF: 15292401.3

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.029 ± 1.832 $\chi^2/\text{NDF}: 26.0/26$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -2.880 ± 1.774 $\chi^2/\text{NDF}: 30.9/30$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

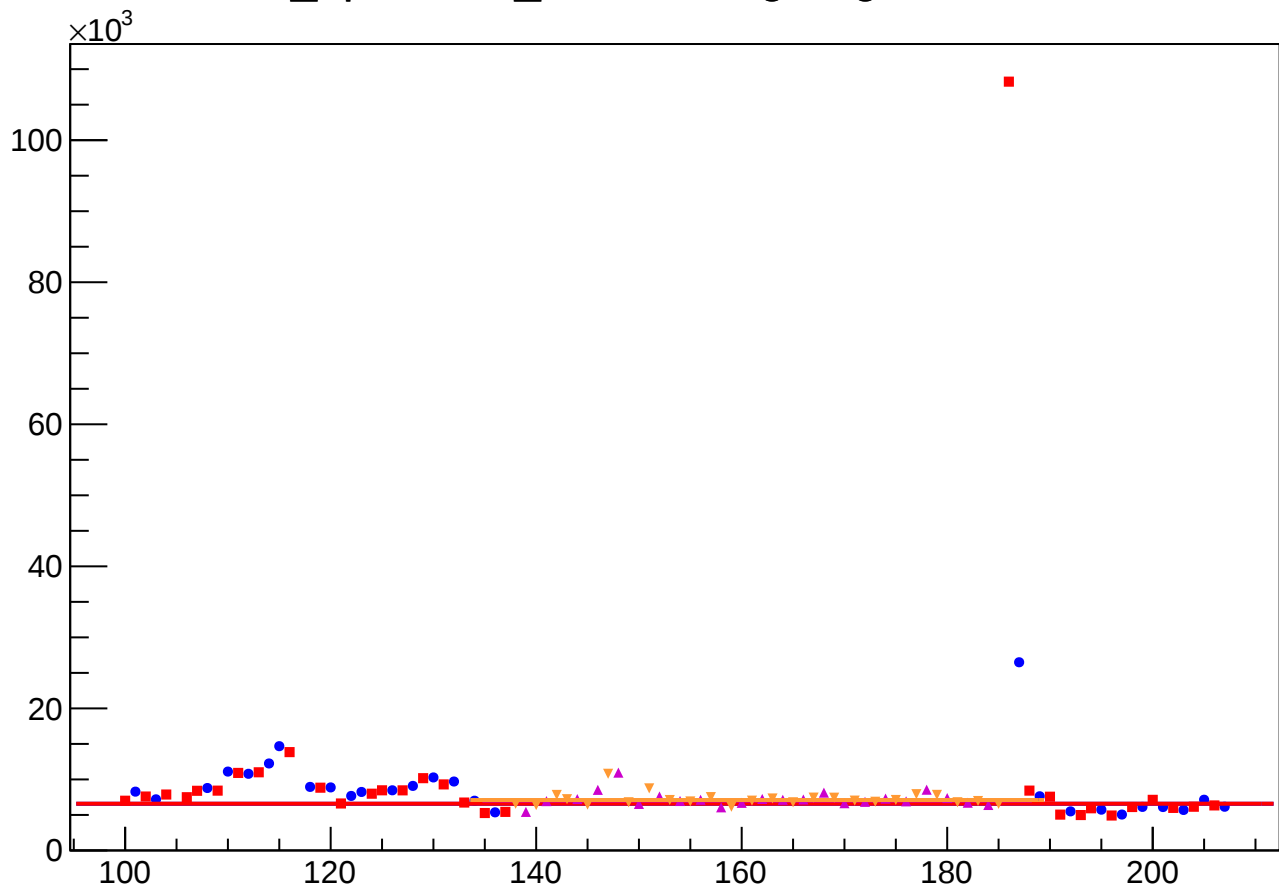
Right: -0.989 ± 1.274 $\chi^2/\text{NDF}: 59.2/57$

In: -0.217 ± 1.247 $\chi^2/\text{NDF}: 63.4/49$

Out: 0.477 ± 1.214 $\chi^2/\text{NDF}: 56.5/55$

All: 0.139 ± 0.870 $\chi^2/\text{NDF}: 120.0/105$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6568.479+/-1.296 χ^2/NDF : 1529104.4/26

Left Out: 7098.726+/-1.178 χ^2/NDF : 382550.4/24

Right Out: 6581.364+/-1.254 χ^2/NDF : 2107109.8/30

Left In: 7033.702+/-1.203 χ^2/NDF : 541035.5/22

Left: 7066.886+/-0.842 χ^2/NDF : 925077.6/47

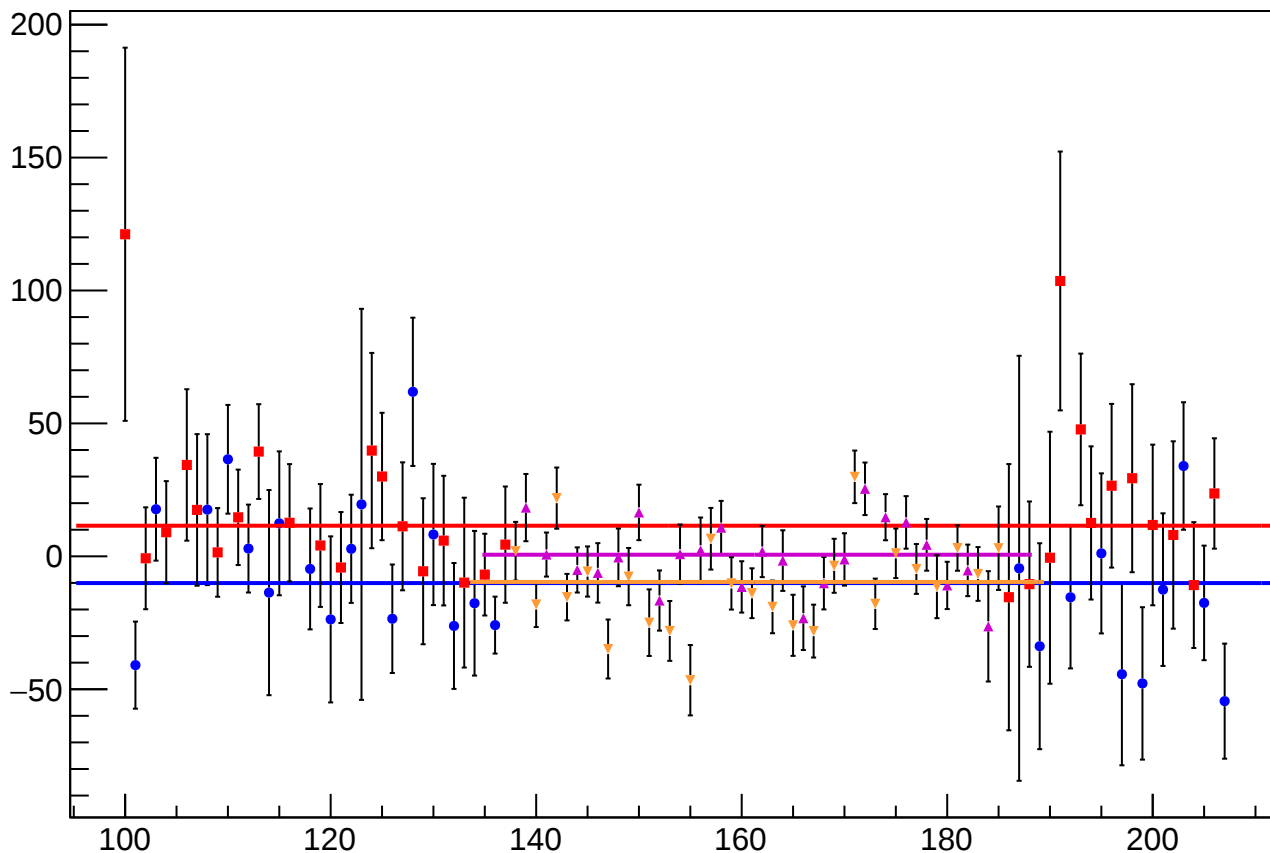
Right: 6575.131+/-0.901 χ^2/NDF : 3636265.3/57

In: 6818.374+/-0.881 χ^2/NDF : 2139393.6/49

Out: 6856.225+/-0.859 χ^2/NDF : 2580054.7/55

All: 6837.795+/-0.615 χ^2/NDF : 4720394.4/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.060 $\pm$ 4.433 χ^2/NDF : 35.2/26

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 11.517 $\pm$ 4.416 χ^2/NDF : 18.5/30

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

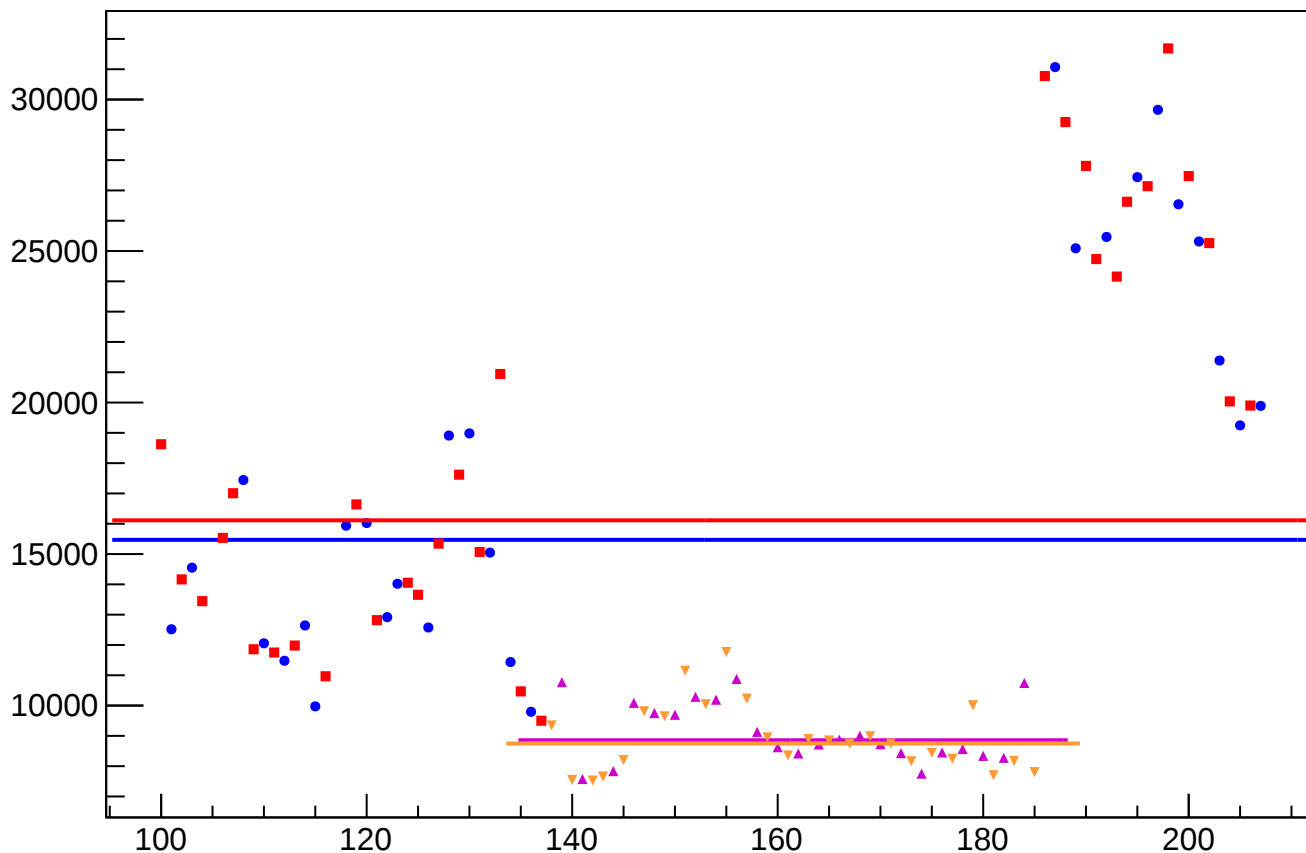
Right: 0.770 $\pm$ 3.129 χ^2/NDF : 65.5/57

In: -1.408 $\pm$ 1.924 χ^2/NDF : 69.5/49

Out: -5.867 $\pm$ 1.865 χ^2/NDF : 95.0/55

All: -3.707 $\pm$ 1.339 χ^2/NDF : 167.3/105

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15469.116 $\pm$ 3.135 χ^2/NDF : 3028695.2/26

Left Out: 8748.407 $\pm$ 1.455 χ^2/NDF : 463394.1/24

Right Out: 16113.605 $\pm$ 3.123 χ^2/NDF : 3439563.5/30

Left In: 8855.591 $\pm$ 1.510 χ^2/NDF : 367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2/NDF : 833550.6/47

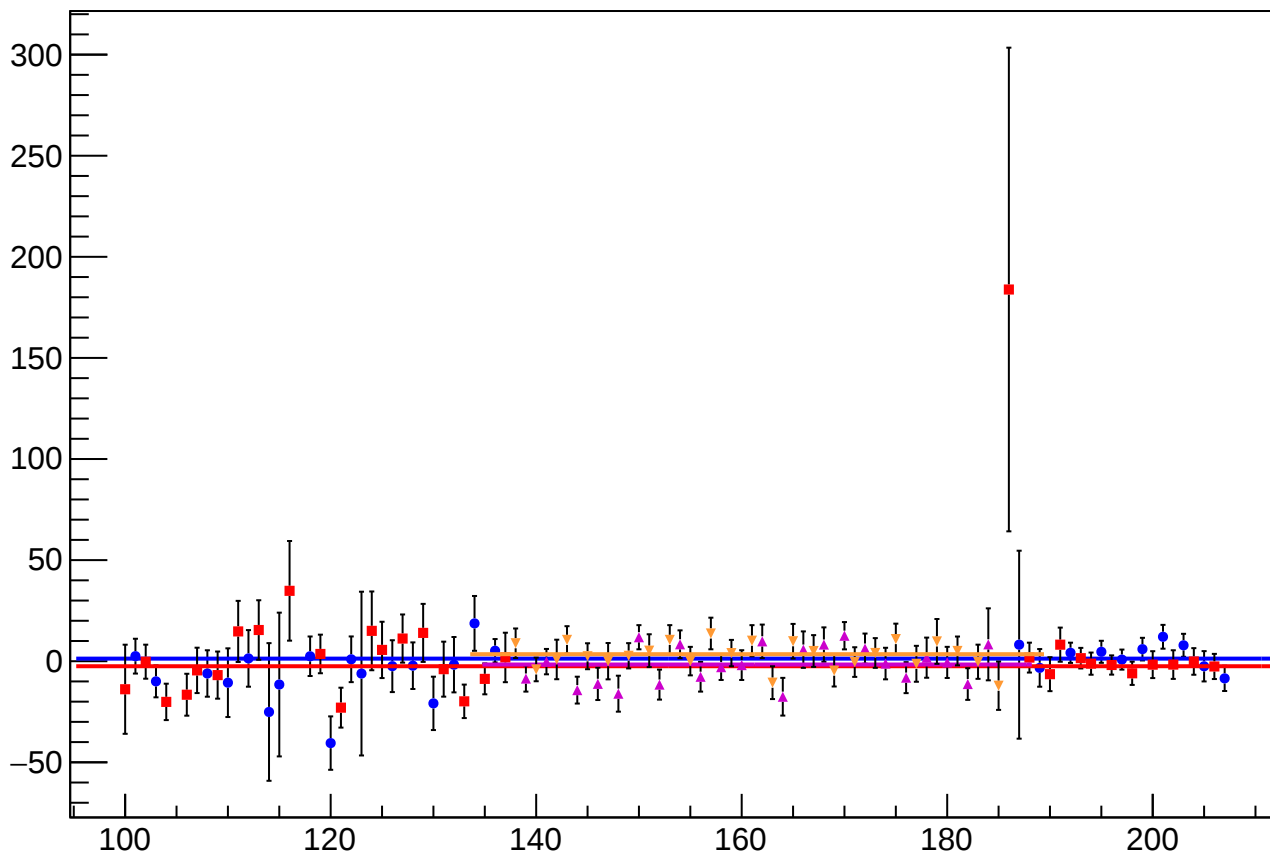
Right: 15792.608 $\pm$ 2.212 χ^2/NDF : 6489475.7/57

In: 10100.755 $\pm$ 1.360 χ^2/NDF : 7009344.0/49

Out: 10061.822 $\pm$ 1.319 χ^2/NDF : 8474228.4/55

All: 10080.685 $\pm$ 0.947 χ^2/NDF : 15483994.7

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.281 ± 1.594 χ^2/NDF : 28.0/26

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -2.483 ± 1.520 χ^2/NDF : 30.8/30

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

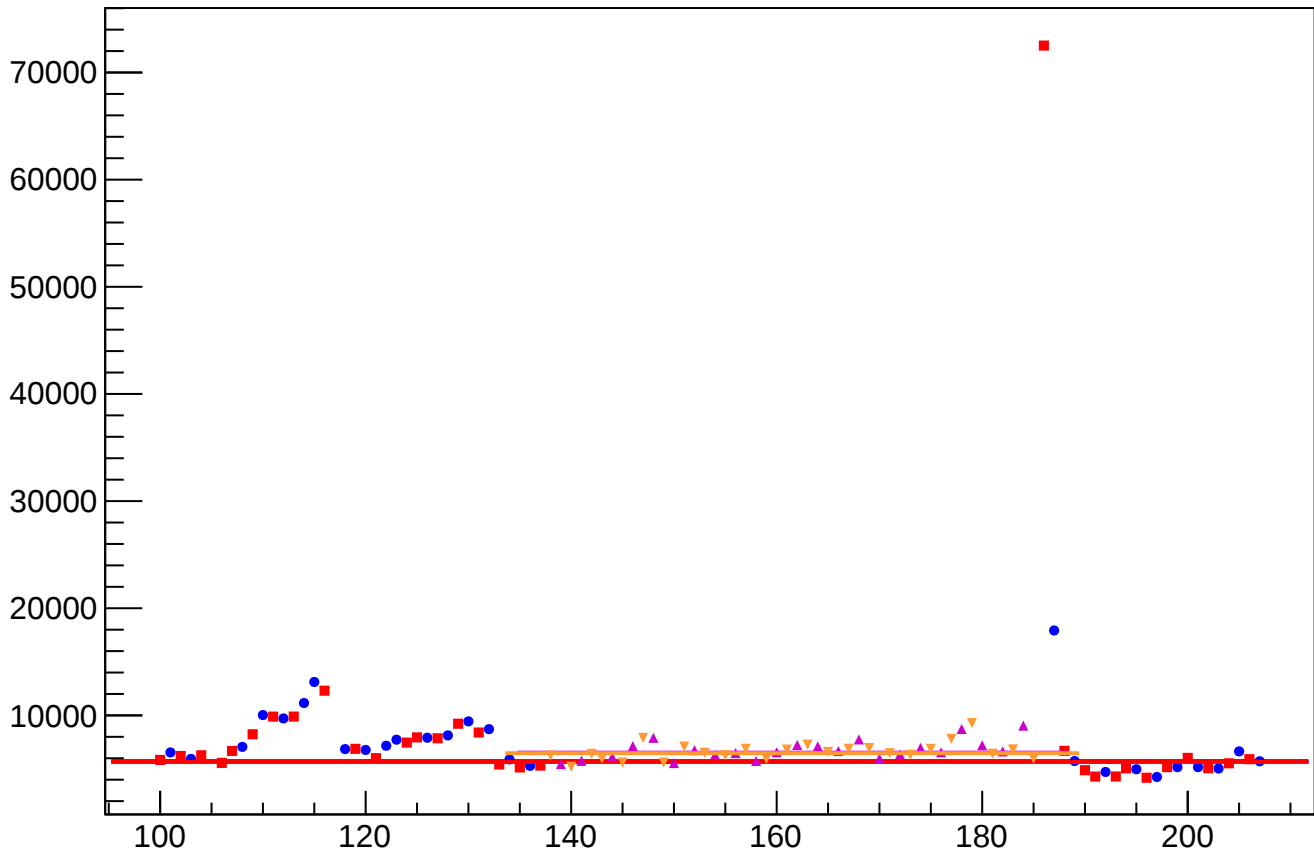
Right: -0.691 ± 1.100 χ^2/NDF : 61.7/57

In: -0.194 ± 1.121 χ^2/NDF : 63.4/49

Out: 0.487 ± 1.076 χ^2/NDF : 54.2/55

All: 0.160 ± 0.776 χ^2/NDF : 117.8/105

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5722.970+/-1.127 χ^2/NDF : 1492945.7/26

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5655.997+/-1.075 χ^2/NDF : 2123625.2/30

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

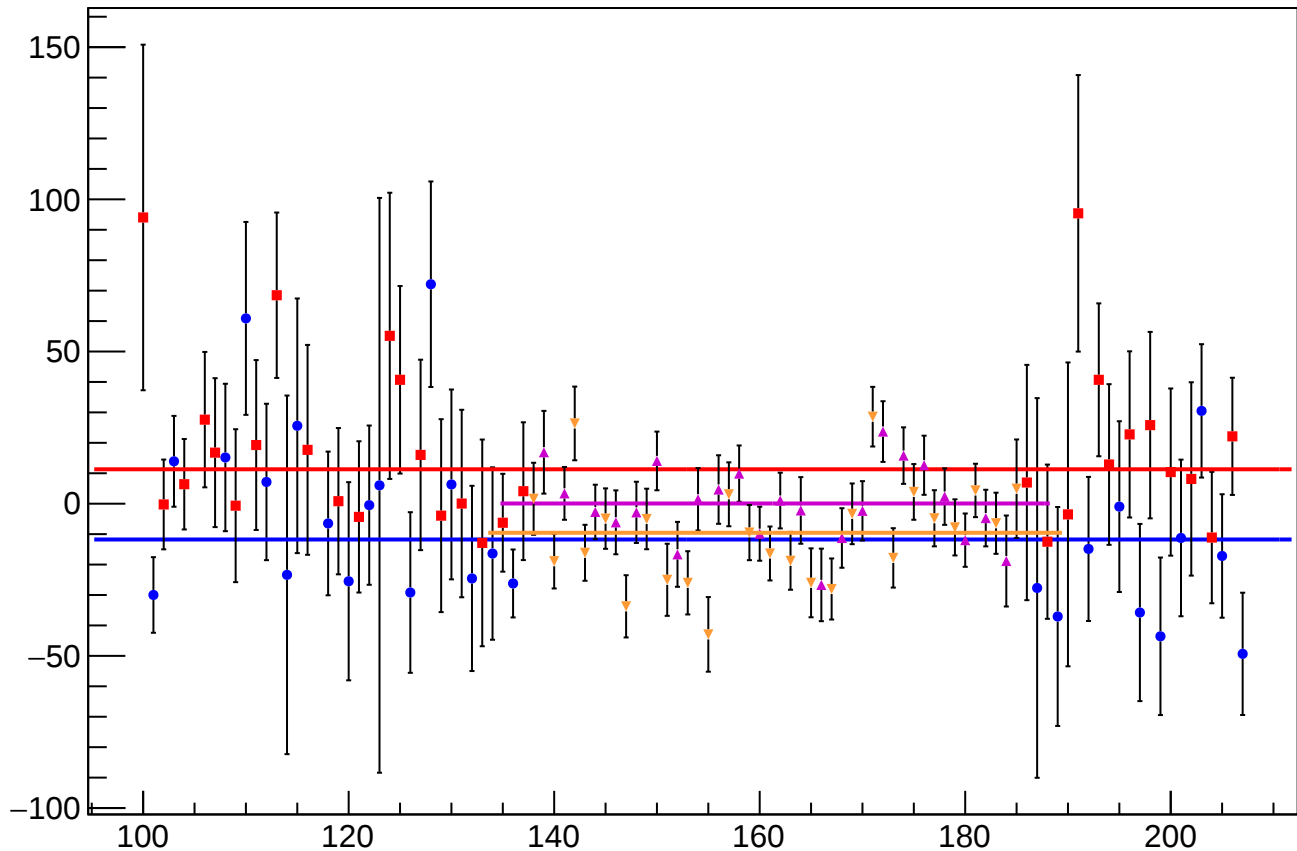
Right: 5687.885+/-0.778 χ^2/NDF : 3618420.3/57

In: 6126.560+/-0.793 χ^2/NDF : 2226776.9/49

Out: 6062.770+/-0.761 χ^2/NDF : 2901324.0/55

All: 6093.354+/-0.549 χ^2/NDF : 5131469.6/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.763 ± 4.503 χ^2/NDF : 32.5/26

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 11.305 ± 4.540 χ^2/NDF : 20.4/30

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

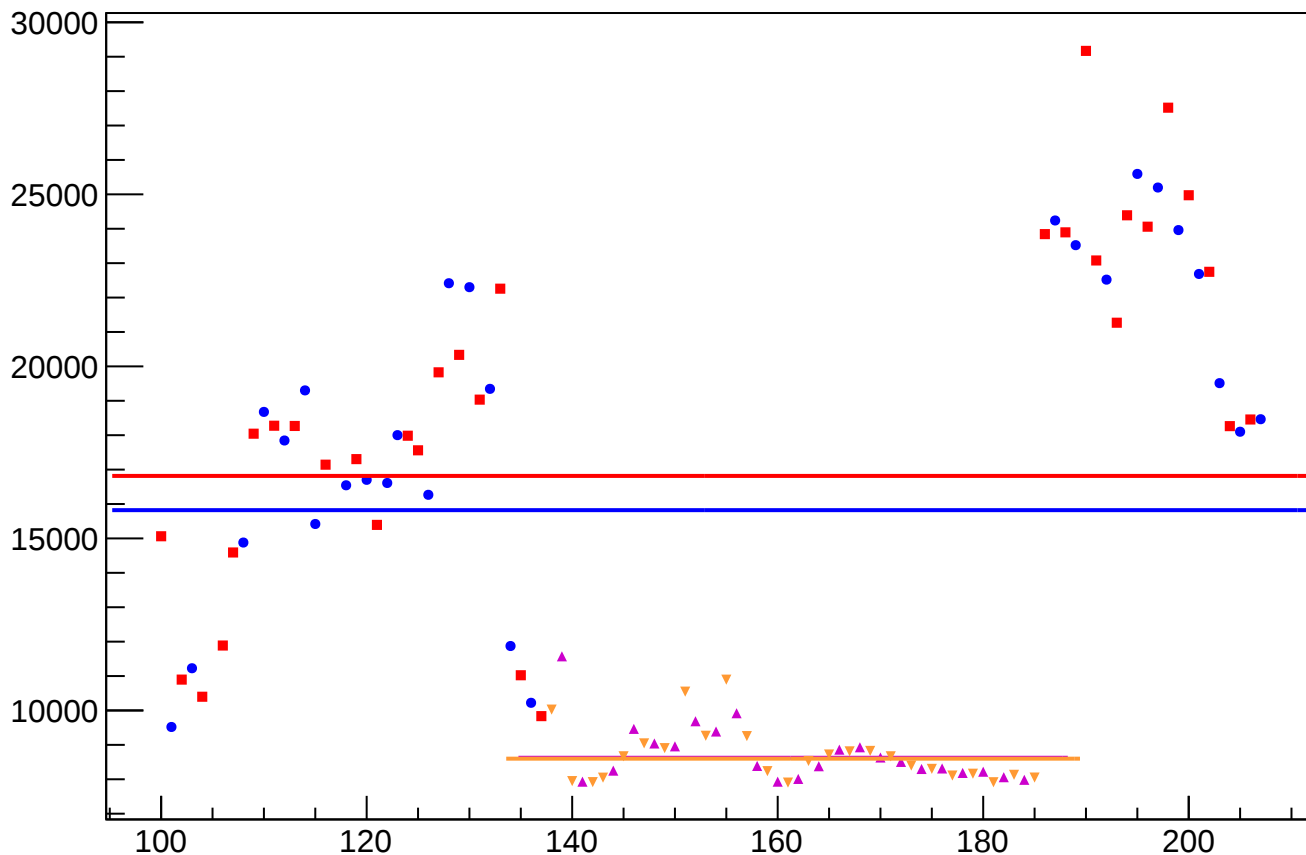
Right: -0.324 ± 3.197 χ^2/NDF : 65.8/57

In: -1.998 ± 1.883 χ^2/NDF : 68.0/49

Out: -6.131 ± 1.839 χ^2/NDF : 97.5/55

All: -4.113 ± 1.316 χ^2/NDF : 168.0/105

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15821.517 $\pm$ 3.184 χ^2 /NDF: 2677294.5/26

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 16816.625 $\pm$ 3.211 χ^2 /NDF: 2657495.3/30

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF: 237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

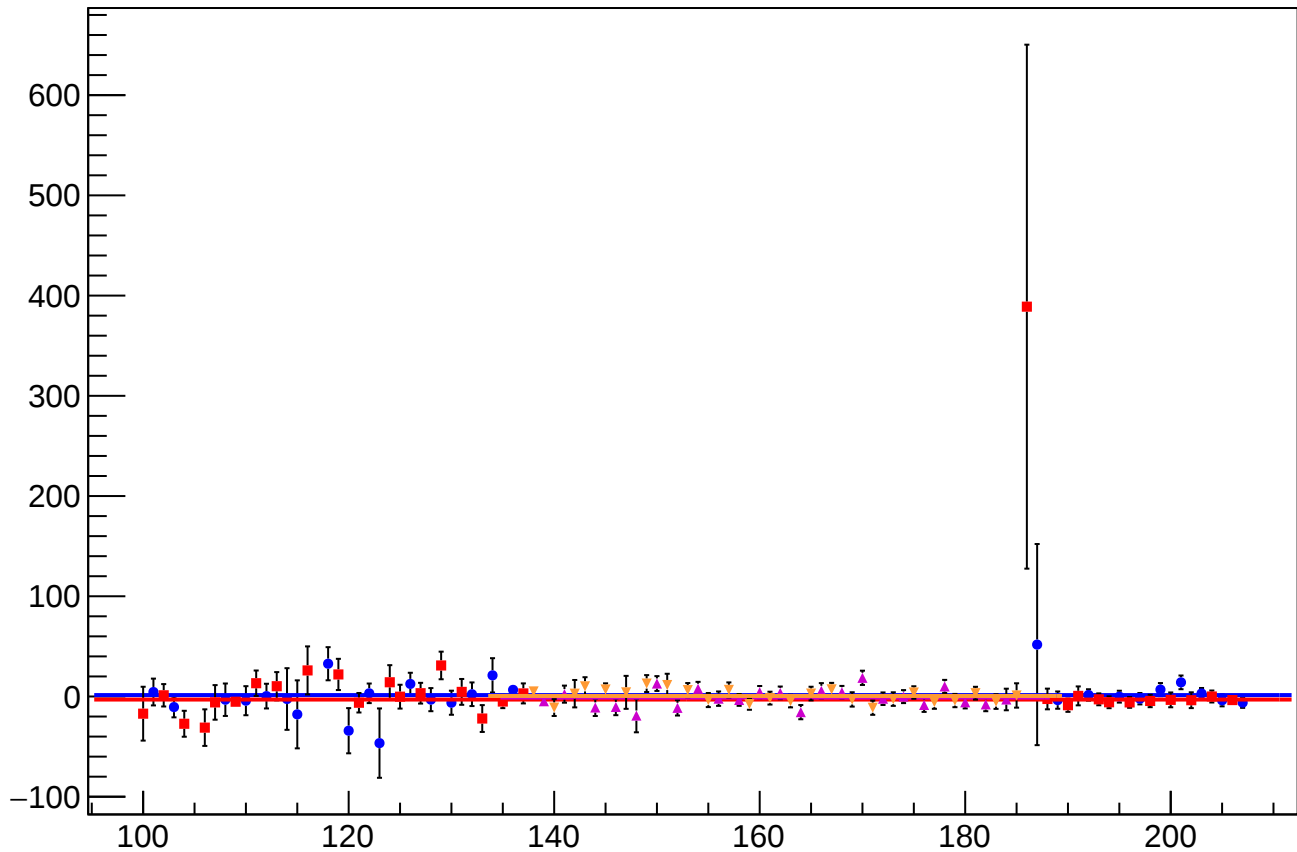
Right: 16314.953 $\pm$ 2.261 χ^2 /NDF: 5383222.8/57

In: 9883.417 $\pm$ 1.331 χ^2 /NDF: 7129591.8/49

Out: 9947.546 $\pm$ 1.301 χ^2 /NDF: 8382975.6/55

All: 9916.232 $\pm$ 0.930 χ^2 /NDF: 15513754.6/102

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.412 ± 1.629 $\chi^2/\text{NDF}: 22.3/26$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.057 ± 1.524 $\chi^2/\text{NDF}: 27.6/30$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

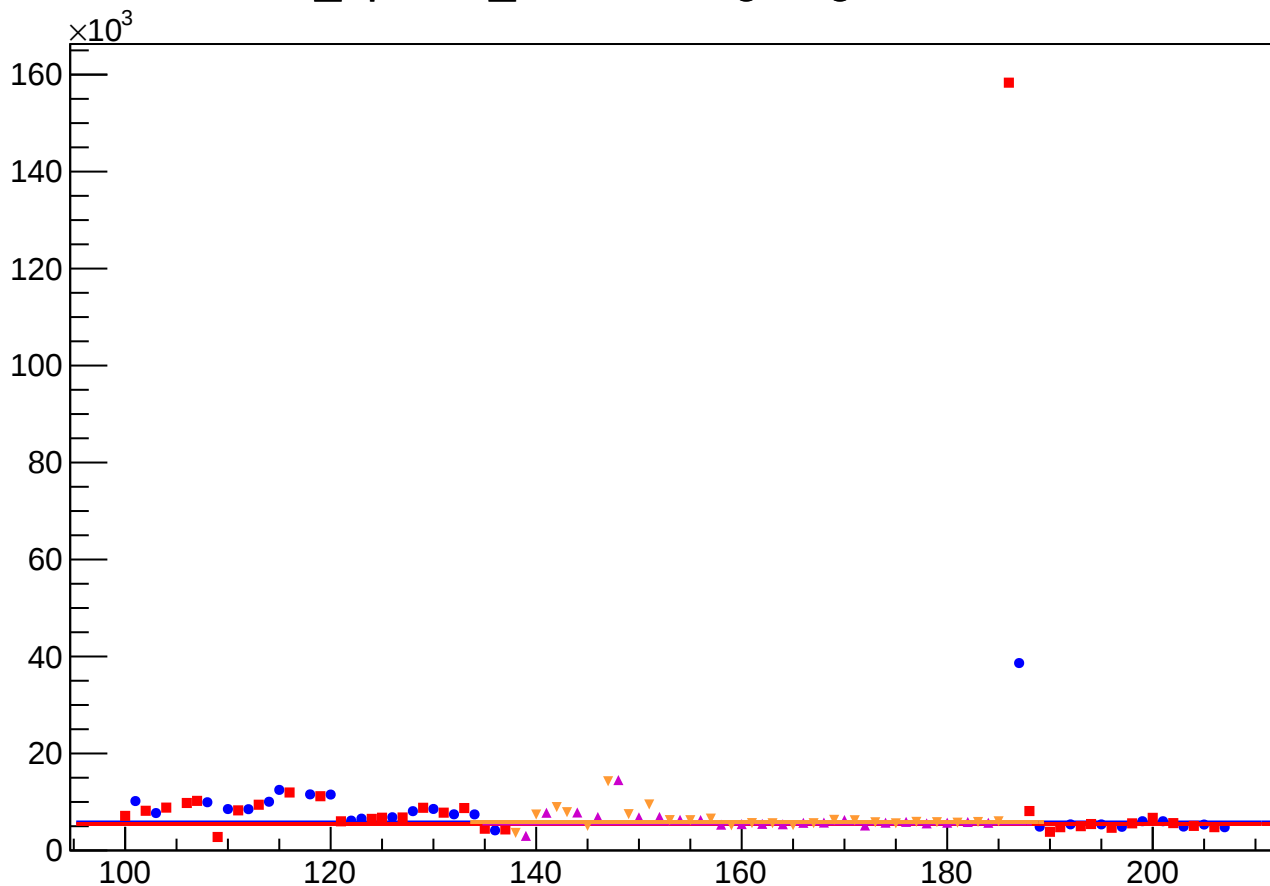
Right: -0.971 ± 1.113 $\chi^2/\text{NDF}: 53.9/57$

In: -0.008 ± 1.060 $\chi^2/\text{NDF}: 56.2/49$

Out: -1.135 ± 1.038 $\chi^2/\text{NDF}: 50.0/55$

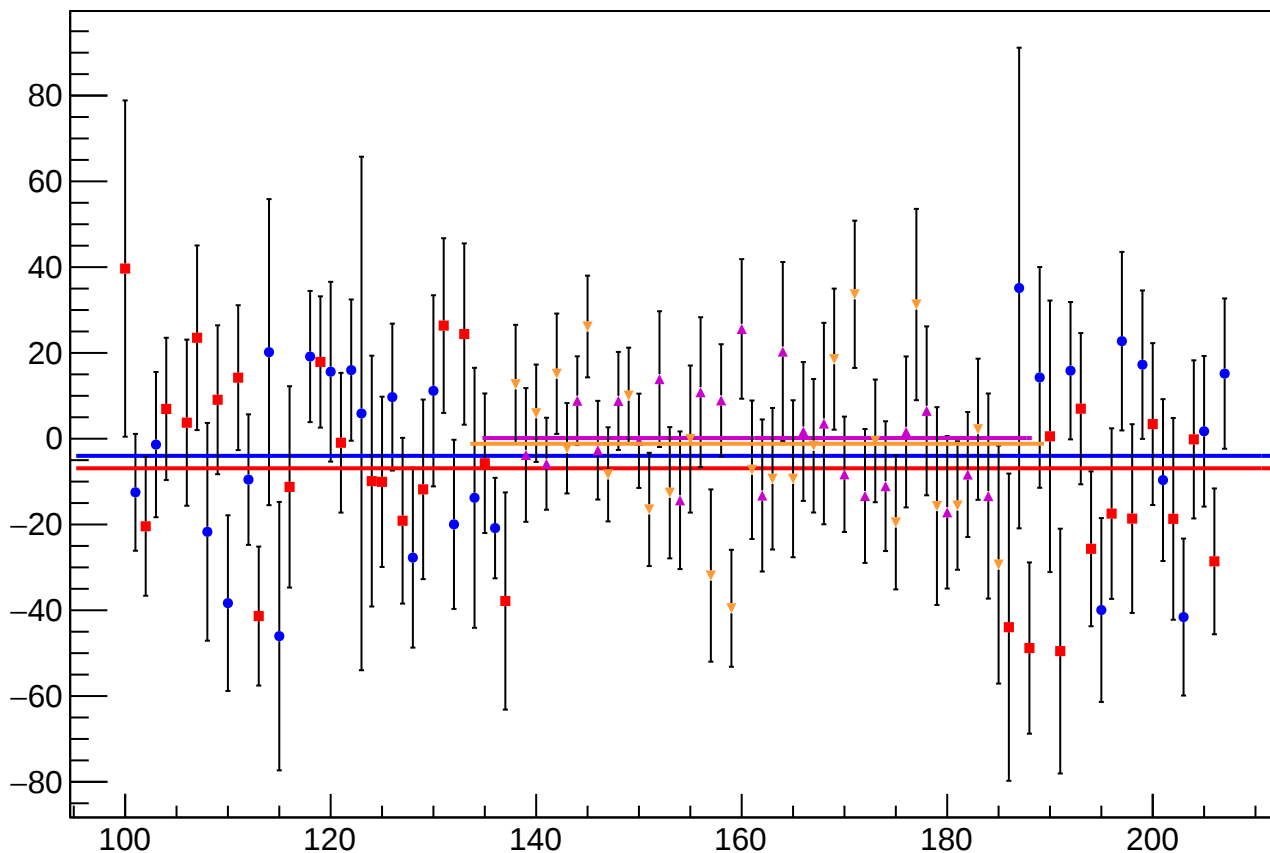
All: -0.583 ± 0.742 $\chi^2/\text{NDF}: 106.8/105$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5767.165 $\pm$ 1.152	χ^2/NDF : 2054089.7/26	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5603.082 $\pm$ 0.787	χ^2/NDF : 5527859.2/57
Right Out: 5459.476 $\pm$ 1.078	χ^2/NDF : 3435727.3/30	In: 5654.210 $\pm$ 0.749	χ^2/NDF : 4233546.1/49
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5674.546 $\pm$ 0.734	χ^2/NDF : 5200051.9/55
		All: 5664.590 $\pm$ 0.524	χ^2/NDF : 9433973.8/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.996 ± 3.677 χ^2/NDF : 30.1/26

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -6.897 ± 3.547 χ^2/NDF : 34.0/30

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

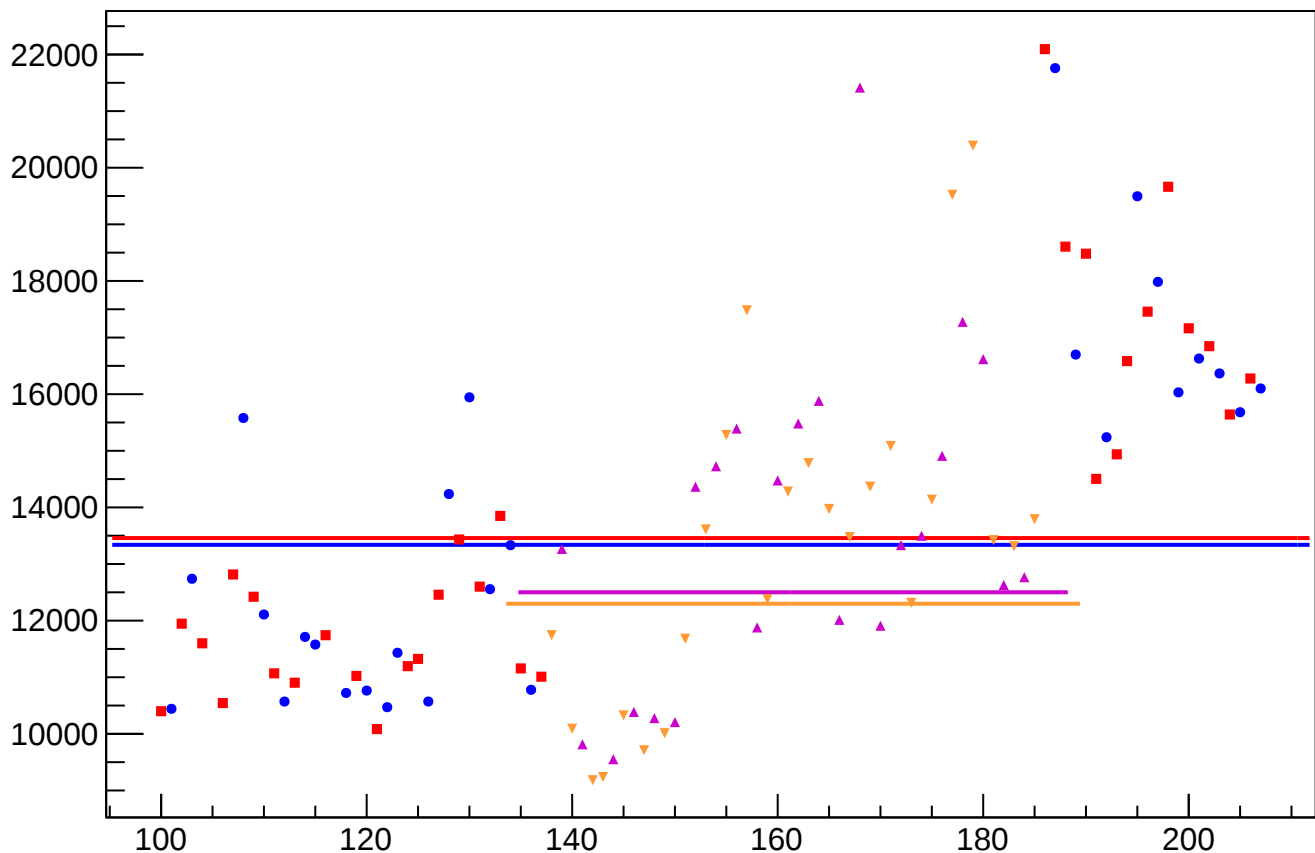
Right: -5.499 ± 2.553 χ^2/NDF : 64.5/57

In: -1.541 ± 2.351 χ^2/NDF : 42.4/49

Out: -3.509 ± 2.263 χ^2/NDF : 69.3/55

All: -2.563 ± 1.630 χ^2/NDF : 112.0/105

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13338.913 $\pm$ 2.600

χ^2/NDF : 1147249.0/26

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13400.753 $\pm$ 1.805 χ^2/NDF : 2415730.0/57

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12843.466 $\pm$ 1.663 χ^2/NDF : 2566560.7/49

Right Out: 13458.297 $\pm$ 2.508 χ^2/NDF : 1267388.9/30

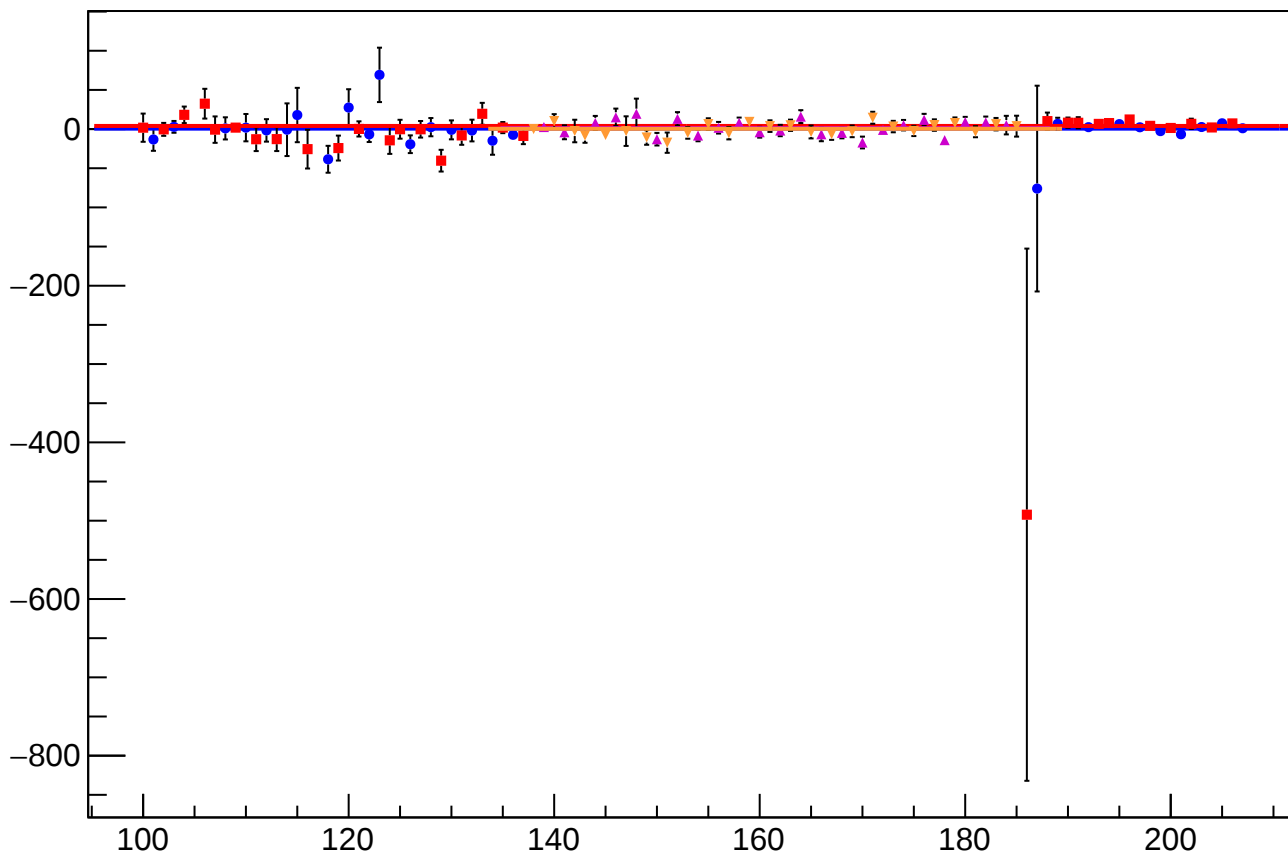
Out: 12770.698 $\pm$ 1.600 χ^2/NDF : 2900167.6/55

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12805.692 $\pm$ 1.153 χ^2/NDF : 5467722.8/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.565 $\pm$ 1.403 χ^2 /NDF: 26.8/26

Left Out: 0.353 $\pm$ 1.433 χ^2 /NDF:19.1/24

Right Out: 3.992 $\pm$ 1.346 χ^2 /NDF: 35.1/30

Left In: 1.165 $\pm$ 1.371 χ^2 /NDF:33.6/22

Left: 0.777 $\pm$ 0.991 χ^2 /NDF: 52.9/47

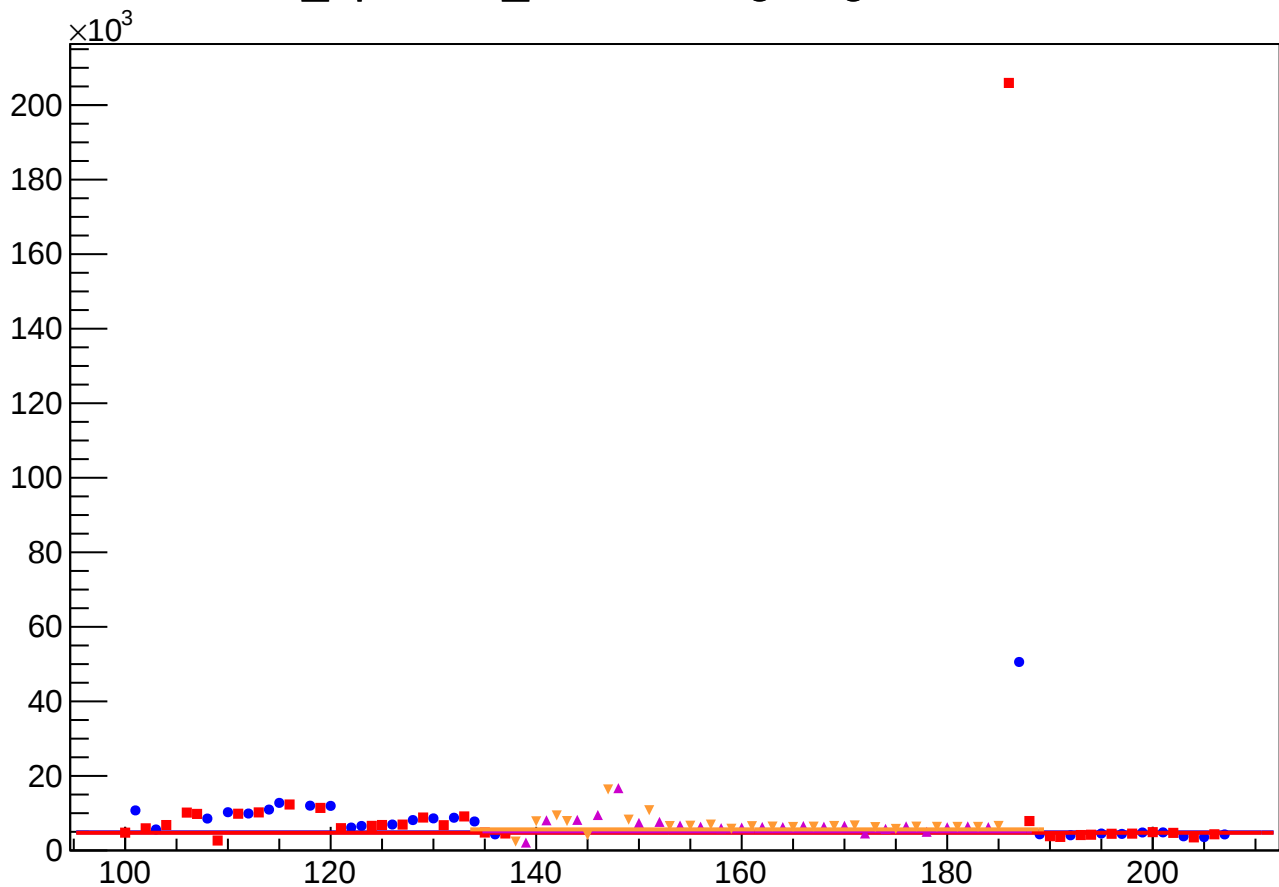
Right: 2.349 $\pm$ 0.971 χ^2 /NDF: 65.0/57

In: 0.872 $\pm$ 0.981 χ^2 /NDF:60.4/49

Out: 2.287 $\pm$ 0.981 χ^2 /NDF:57.7/55

All: 1.579 $\pm$ 0.694 χ^2 /NDF: 119.1/105

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4855.275 $\pm$ 0.992 χ^2/NDF : 3021191.6/26

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4743.337 $\pm$ 0.952 χ^2/NDF : 3725508.4/30

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

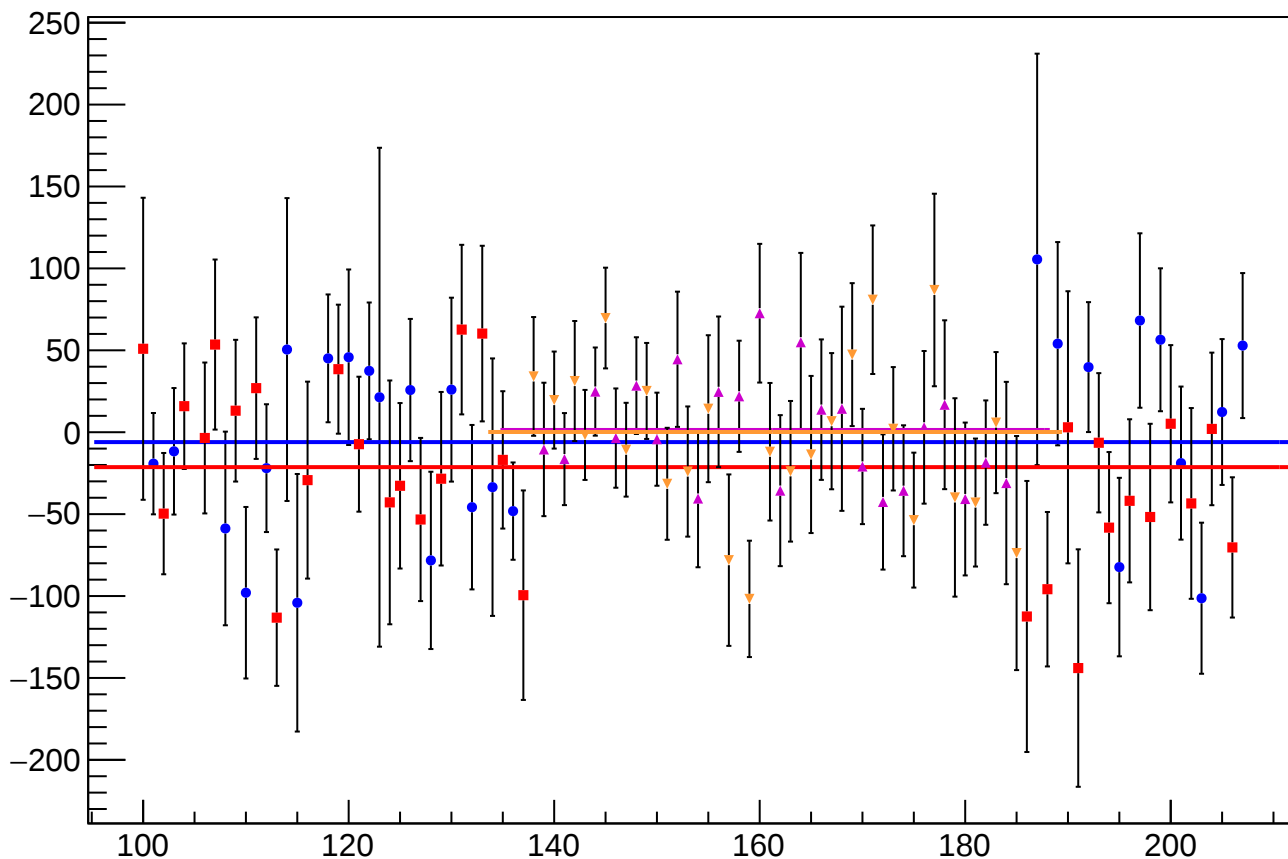
Right: 4797.005 $\pm$ 0.687 χ^2/NDF : 6753328.3/57

In: 4999.731 $\pm$ 0.693 χ^2/NDF : 8558271.1/49

Out: 5172.734 $\pm$ 0.694 χ^2/NDF : 8288110.3/55

All: 5086.172 $\pm$ 0.491 χ^2/NDF : 16877481.4/1

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -6.030 ± 9.157 χ^2/NDF : 30.7/26

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -21.312 ± 8.840 χ^2/NDF : 30.5/30

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

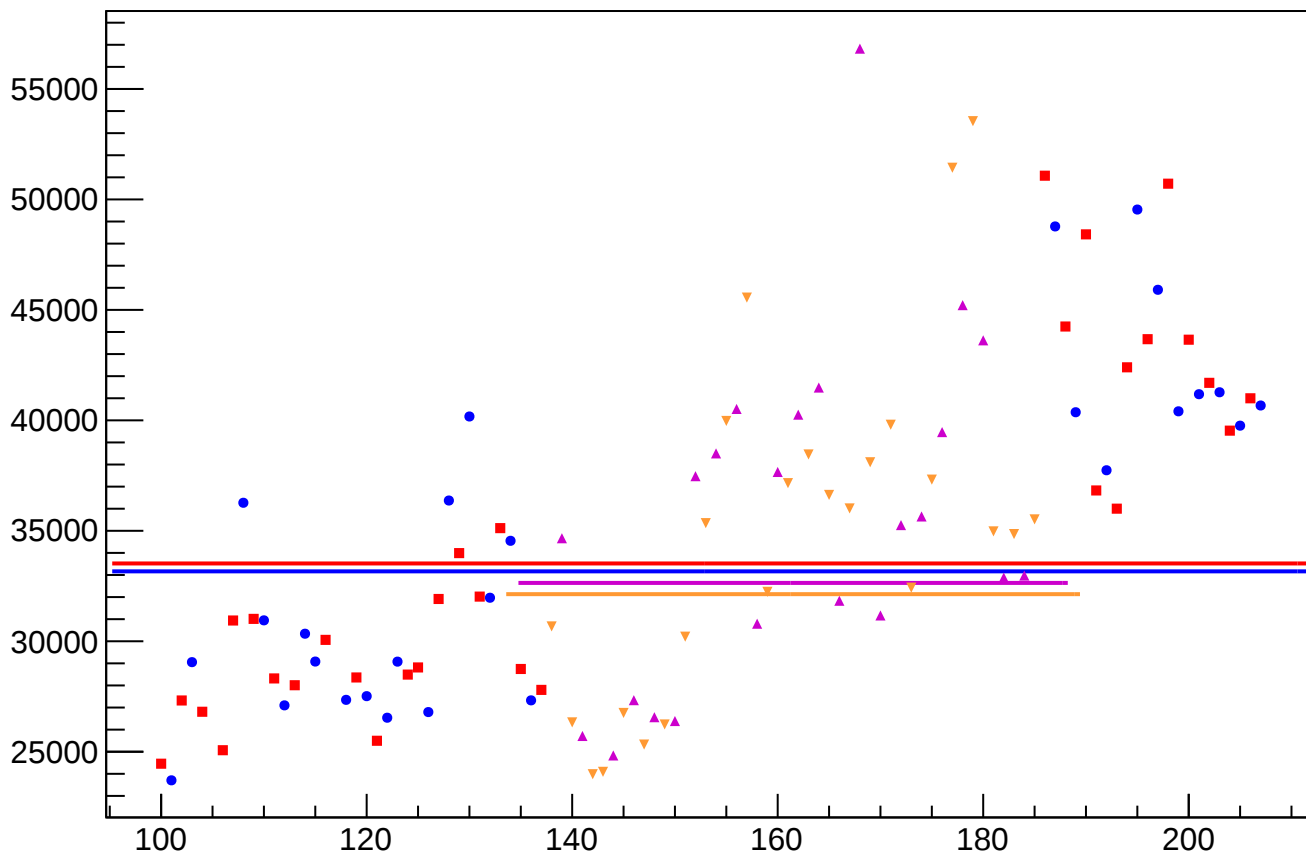
Right: -13.941 ± 6.360 χ^2/NDF : 62.6/57

In: -1.826 ± 6.021 χ^2/NDF : 44.3/49

Out: -9.091 ± 5.799 χ^2/NDF : 65.1/55

All: -5.595 ± 4.177 χ^2/NDF : 110.2/105

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33164.602+/-6.475

χ^2/NDF : 1210467.4/26

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 33522.191+/-6.250

χ^2/NDF : 1302473.2/30

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916

χ^2/NDF : 2946456.2/47

Right: 33349.708+/-4.497

χ^2/NDF : 2514519.3/57

In: 32867.423+/-4.257

χ^2/NDF : 2616339.8/49

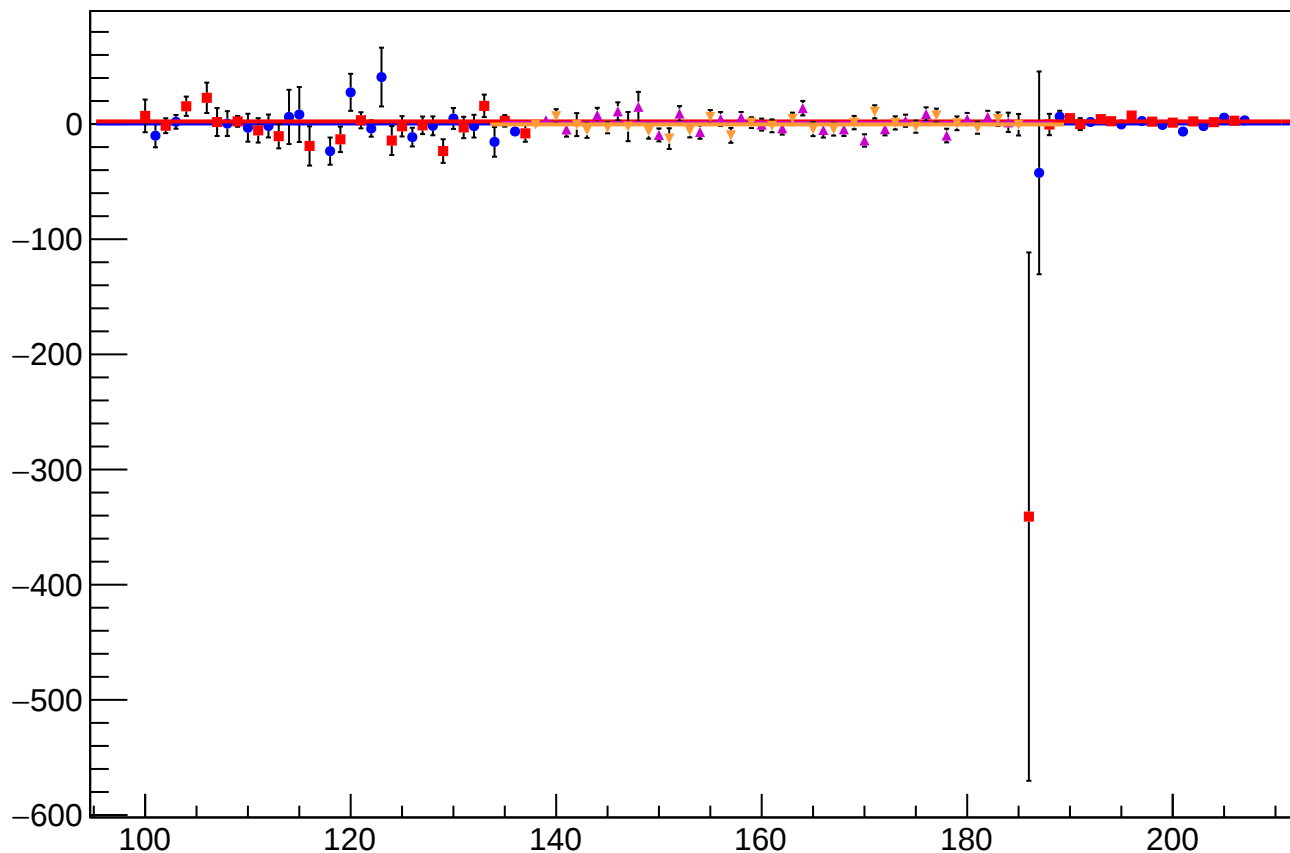
Out: 32730.464+/-4.100

χ^2/NDF : 2870718.6/55

All: 32796.375+/-2.953

χ^2/NDF : 5487595.3/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.505 ± 0.872 χ^2/NDF : 33.3/26

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.276 ± 0.887 χ^2/NDF : 29.7/30

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

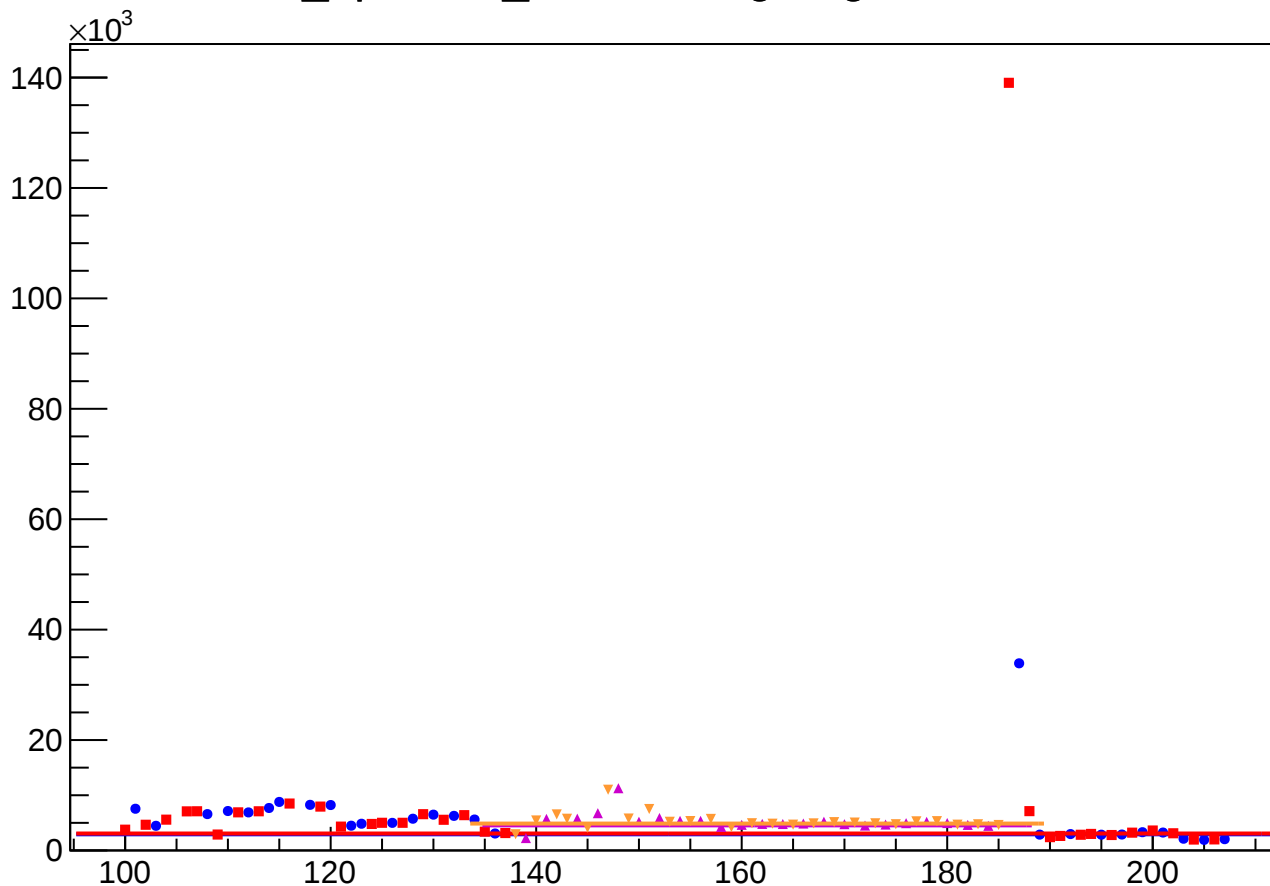
Right: 1.375 ± 0.622 χ^2/NDF : 65.0/57

In: 0.653 ± 0.693 χ^2/NDF : 69.5/49

Out: 1.333 ± 0.707 χ^2/NDF : 50.5/55

All: 0.986 ± 0.495 χ^2/NDF : 120.5/105

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2922.144+/-0.617

χ^2/NDF : 4534022.4/26

Left Out: 4868.567+/-0.829

χ^2/NDF : 1511151.0/24

Right Out: 3069.816+/-0.627

χ^2/NDF : 4976328.6/30

Left In: 4544.337+/-0.808

χ^2/NDF : 2634314.4/22

Left: 4702.320+/-0.578

χ^2/NDF : 4223993.0/47

Right: 2994.740+/-0.440

χ^2/NDF : 9538555.5/57

In: 3519.391+/-0.490

χ^2/NDF : 9717277.5/49

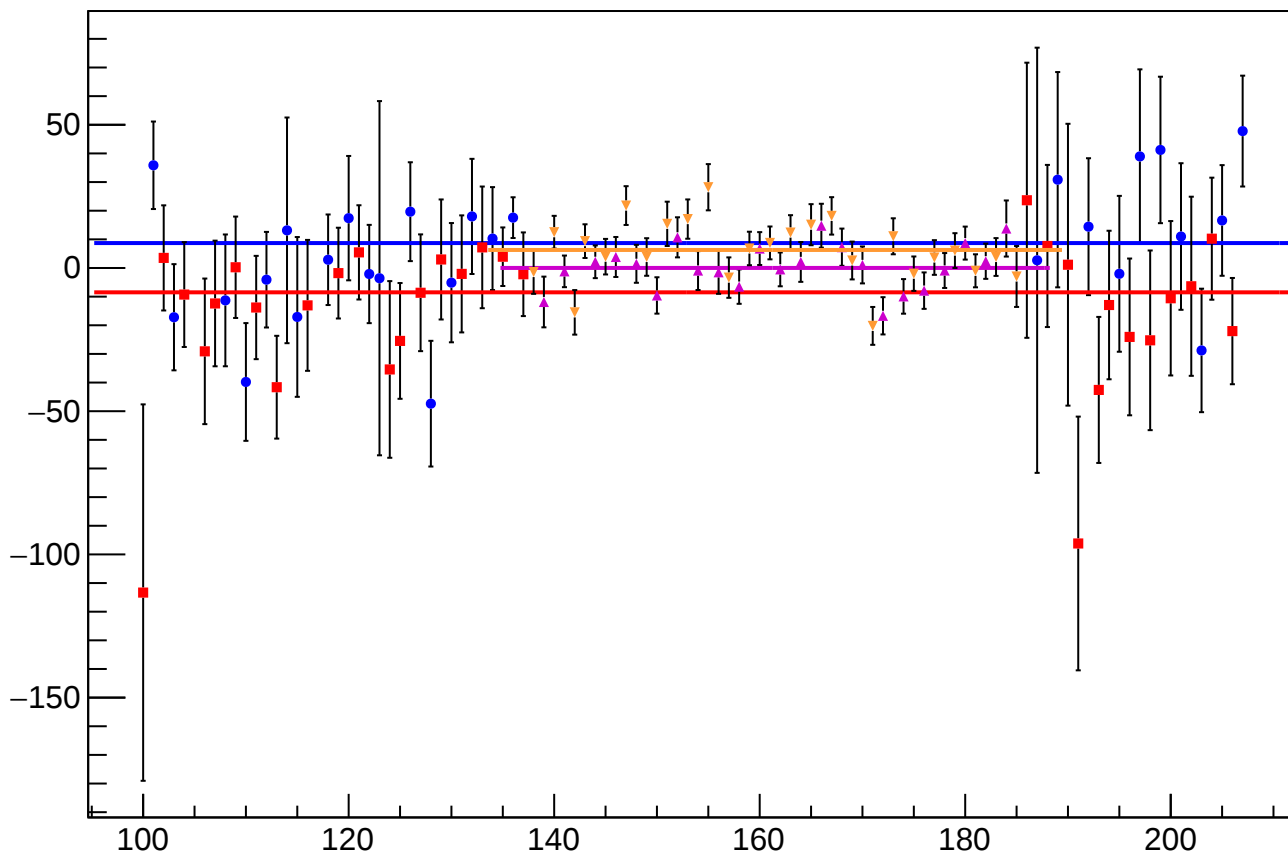
Out: 3724.798+/-0.500

χ^2/NDF : 9484723.6/55

All: 3620.043+/-0.350

χ^2/NDF : 19288089.2/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.704 ± 3.640 χ^2/NDF : 33.2/26

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -8.498 ± 3.745 χ^2/NDF : 20.9/30

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

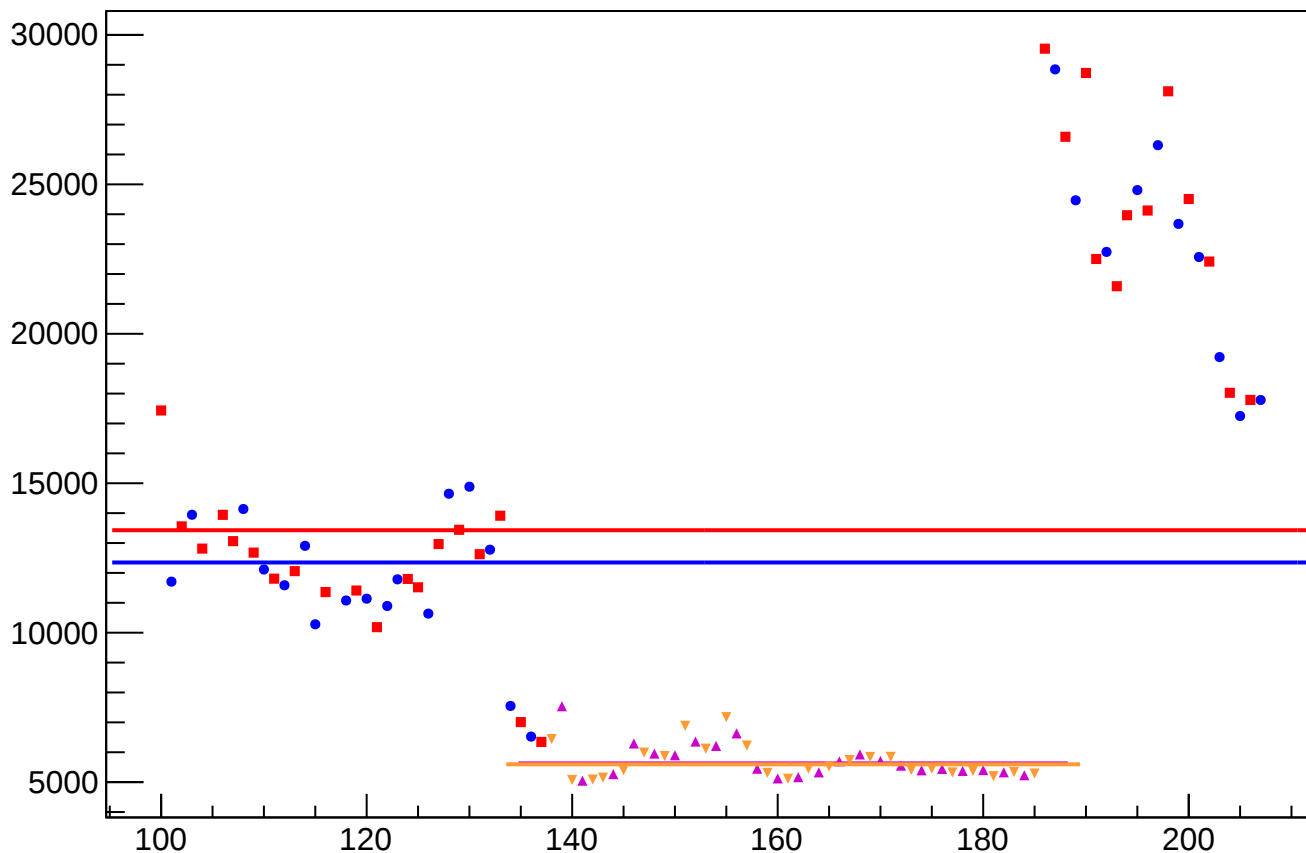
Right: 0.346 ± 2.610 χ^2/NDF : 65.0/57

In: 1.074 ± 1.268 χ^2/NDF : 68.2/49

Out: 4.682 ± 1.237 χ^2/NDF : 91.3/55

All: 2.924 ± 0.885 χ^2/NDF : 163.6/105

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12349.134 $\pm$ 2.574 χ^2 /NDF: 4363361.6/26

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13428.564 $\pm$ 2.648 χ^2 /NDF: 4377736.7/30

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

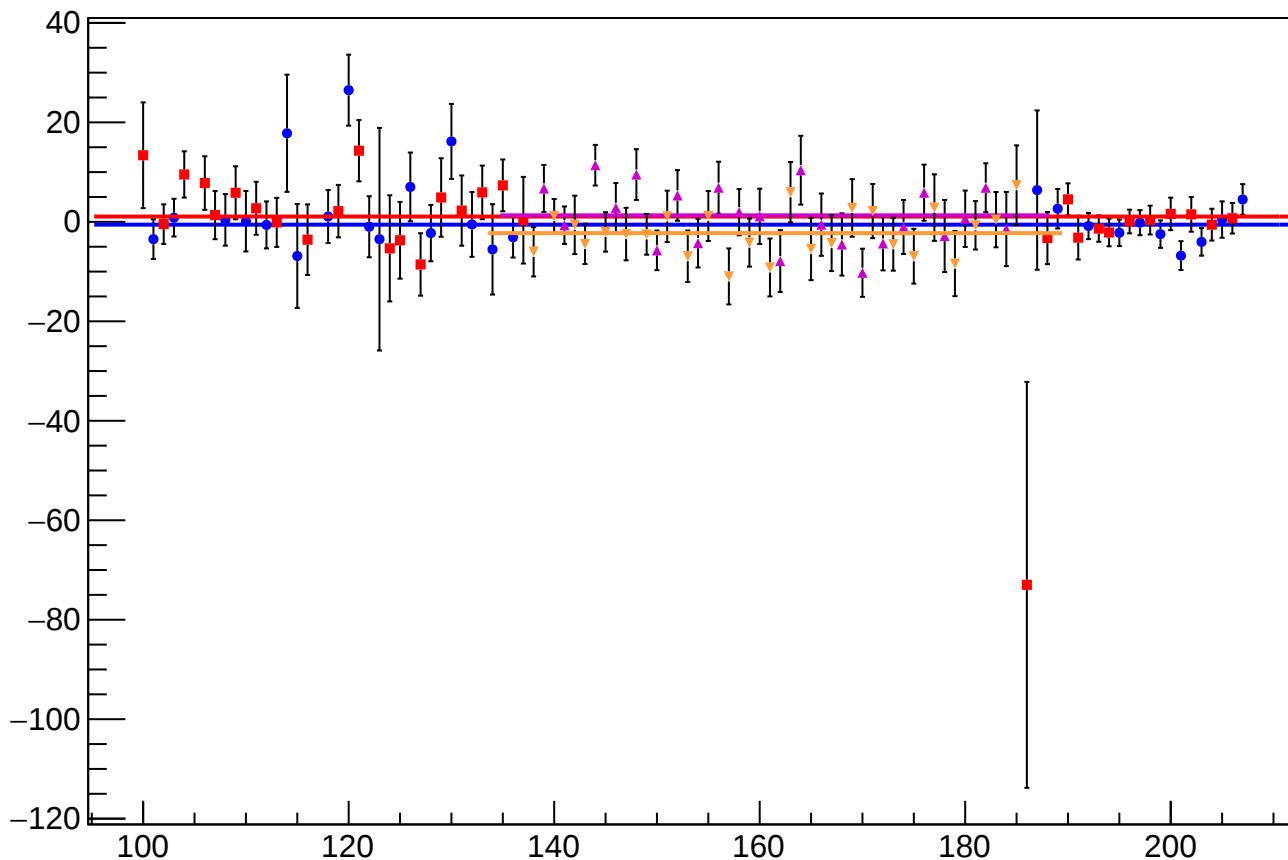
Right: 12873.625 $\pm$ 1.846 χ^2 /NDF: 8826538.2/57

In: 6443.181 $\pm$ 0.897 χ^2 /NDF: 10633776.0/49

Out: 6450.615 $\pm$ 0.874 χ^2 /NDF: 12457020.9/55

All: 6446.992 $\pm$ 0.626 χ^2 /NDF: 23090832.1/102

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.567 $\pm$ 0.797 χ^2/NDF : 35.6/26

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF :15.4/24

Right Out: 1.064 $\pm$ 0.769 χ^2/NDF : 26.8/30

Left In: 1.305 $\pm$ 1.077 χ^2/NDF :30.8/22

Left: -0.562 $\pm$ 0.744 χ^2/NDF : 51.9/47

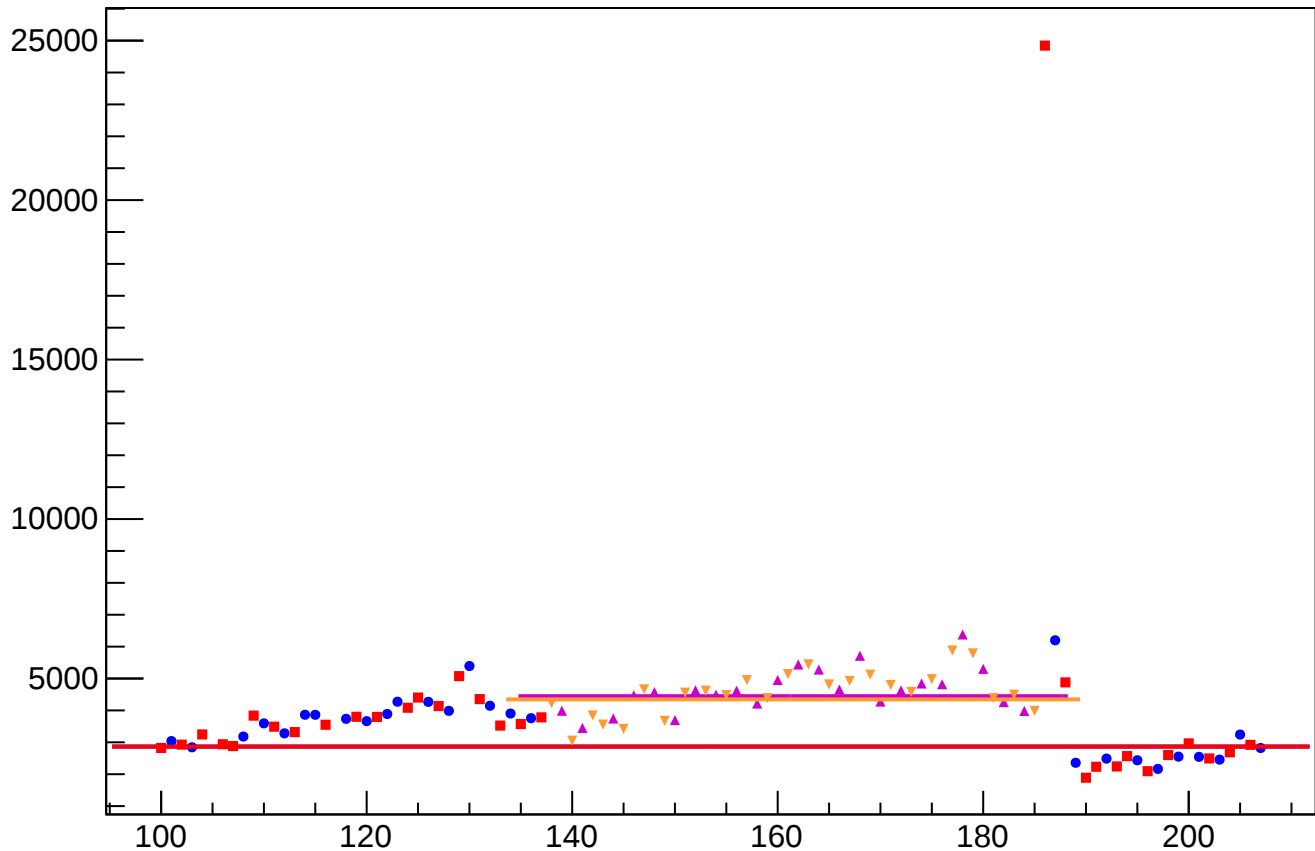
Right: 0.278 $\pm$ 0.553 χ^2/NDF : 64.6/57

In: 0.095 $\pm$ 0.640 χ^2/NDF :68.3/49

Out: -0.128 $\pm$ 0.616 χ^2/NDF :48.9/55

All: -0.021 $\pm$ 0.444 χ^2/NDF : 117.3/105

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2868.232+/-0.563 χ^2/NDF : 1294060.9/26

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2864.487+/-0.544 χ^2/NDF : 2264459.1/30

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

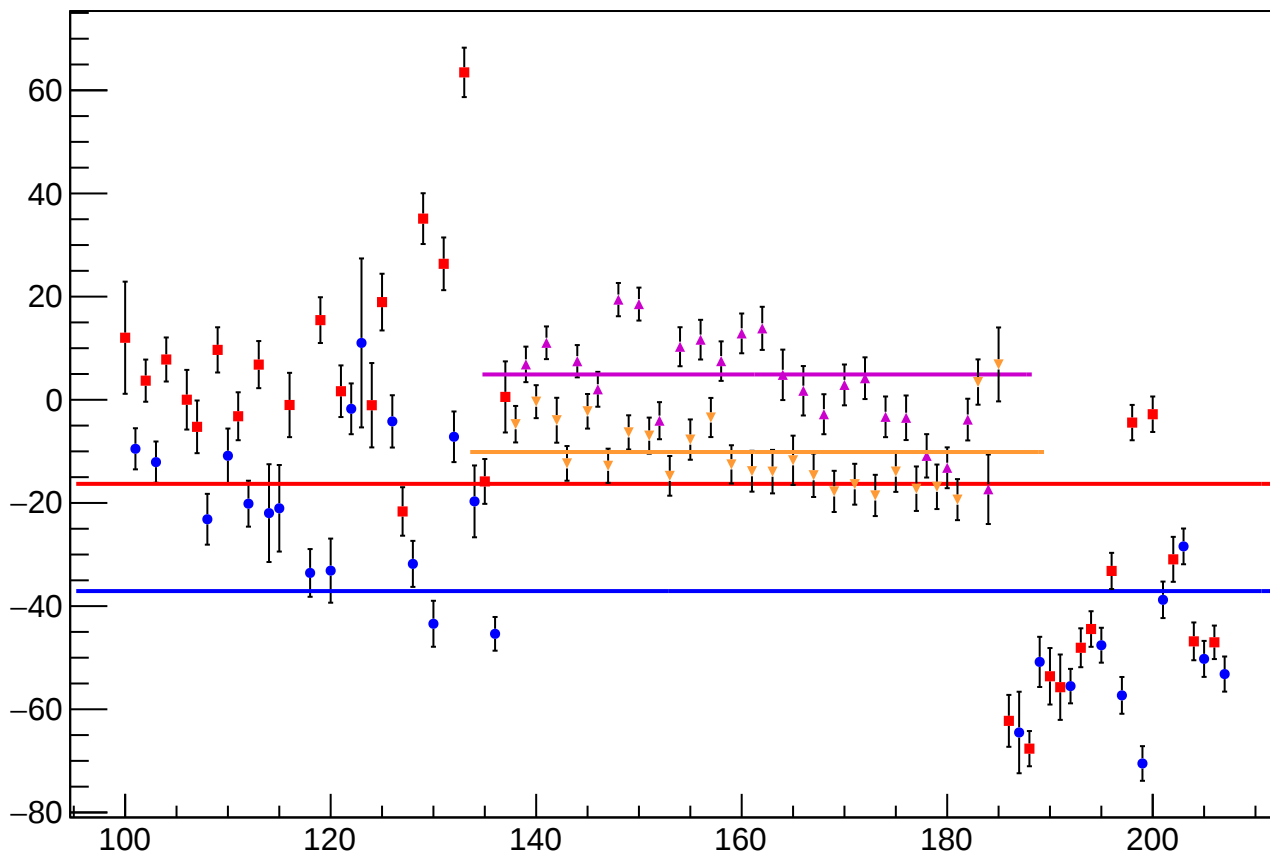
Right: 2866.292+/-0.391 χ^2/NDF : 3558542.9/57

In: 3426.160+/-0.453 χ^2/NDF : 4771822.0/49

Out: 3394.558+/-0.436 χ^2/NDF : 5922478.2/55

All: 3409.742+/-0.314 χ^2/NDF : 10696830.2/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.084 $\pm$ 0.838 χ^2/NDF : 531.2/26

Left Out: -10.125 $\pm$ 0.775 χ^2/NDF : 67.9/24

Right Out: -16.298 $\pm$ 0.802 χ^2/NDF : 1474.9/30

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

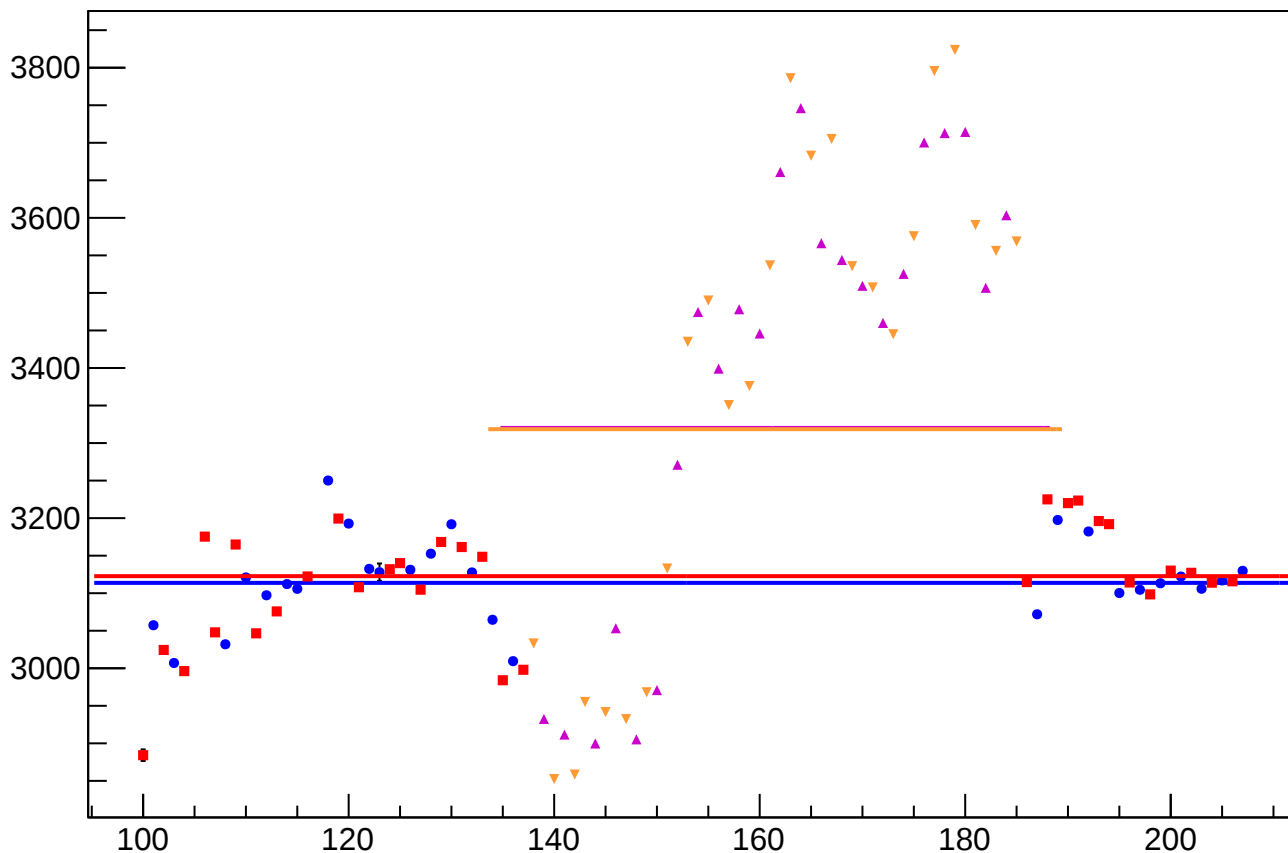
Right: -26.239 $\pm$ 0.579 χ^2/NDF : 2327.5/57

In: -15.050 $\pm$ 0.577 χ^2/NDF : 1978.3/49

Out: -13.108 $\pm$ 0.557 χ^2/NDF : 1573.5/55

All: -14.045 $\pm$ 0.401 χ^2/NDF : 3557.7/105

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.768 $\pm$ 0.592 χ^2 /NDF: 9047.3/26

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3122.711 $\pm$ 0.567 χ^2 /NDF: 13750.9/30

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

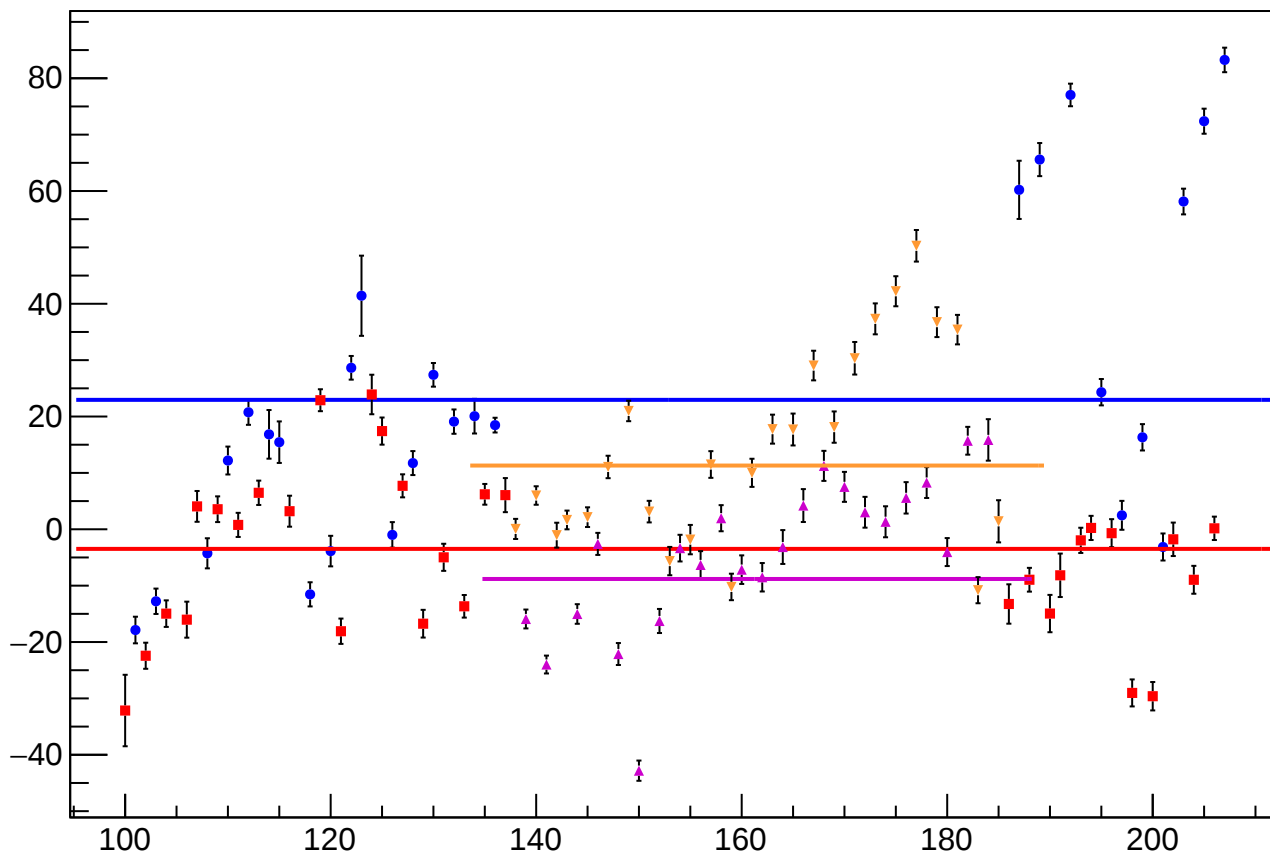
Right: 3118.434 $\pm$ 0.410 χ^2 /NDF: 22917.2/57

In: 3222.064 $\pm$ 0.408 χ^2 /NDF:360417.7/49

Out: 3223.878 $\pm$ 0.394 χ^2 /NDF:413067.1/55

All: 3223.003 $\pm$ 0.284 χ^2 /NDF: 773495.0/105

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 22.957+/-0.454 χ^2/NDF : 3895.6/26

Left Out: 11.305+/-0.454 χ^2/NDF : 1144.3/24

Right Out: -3.478+/-0.438 χ^2/NDF : 923.1/30

Left In: -8.815+/-0.475 χ^2/NDF : 942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

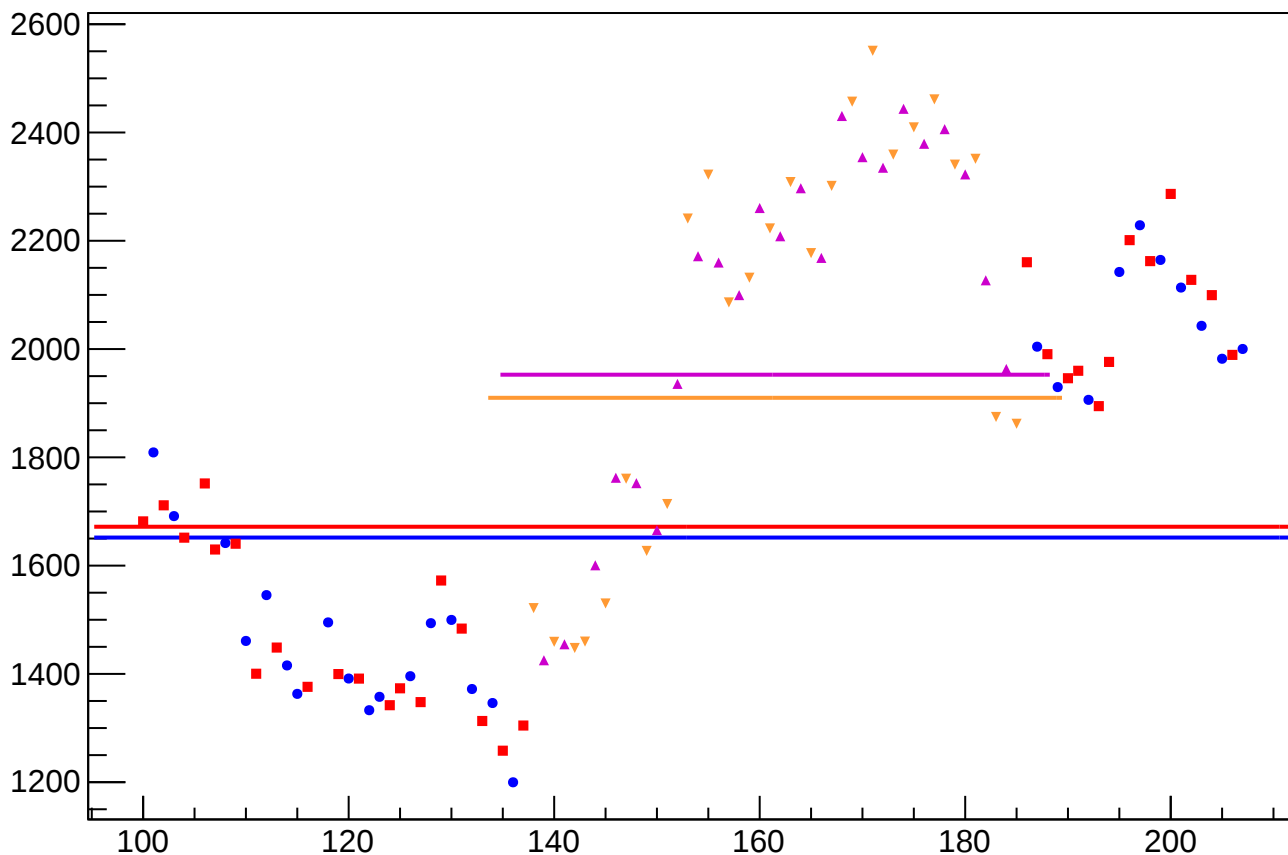
Right: 9.270+/-0.315 χ^2/NDF : 6576.9/57

In: 7.814+/-0.328 χ^2/NDF : 7175.8/49

Out: 3.648+/-0.315 χ^2/NDF : 2617.0/55

All: 5.646+/-0.227 χ^2/NDF : 9876.6/105

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1651.849 $\pm$ 0.321 χ^2 /NDF: 1036011.5/26

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1671.816 $\pm$ 0.310 χ^2 /NDF: 1076584.3/30

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

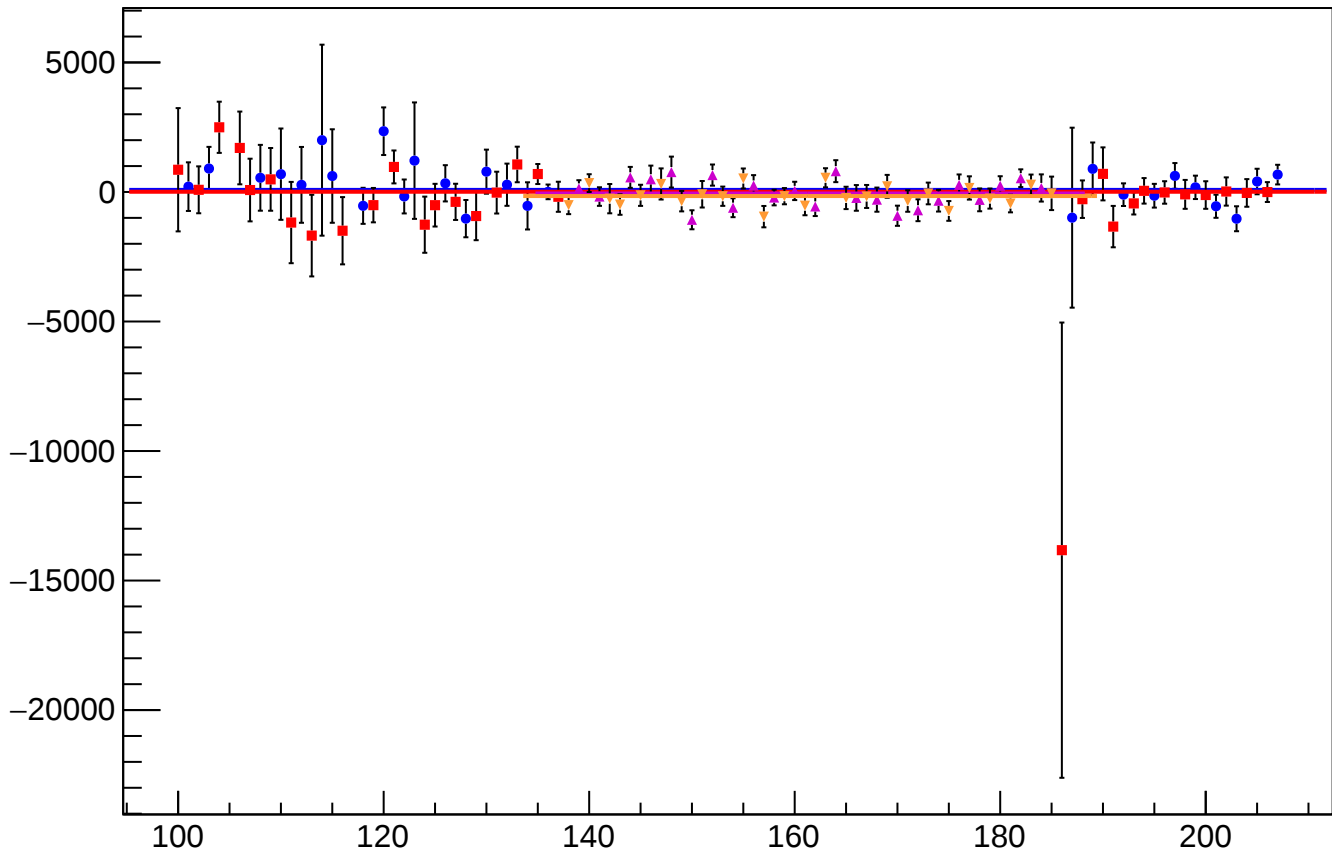
Right: 1662.187 $\pm$ 0.223 χ^2 /NDF: 2114601.9/57

In: 1795.213 $\pm$ 0.232 χ^2 /NDF:2520431.8/49

Out: 1786.604 $\pm$ 0.223 χ^2 /NDF:2761299.8/55

All: 1790.733 $\pm$ 0.161 χ^2 /NDF: 5282447.6/100

asym_sam1_mean vs Slug, Sign Corrected



Right In: 80.303 ± 118.606 χ^2/NDF : 25.3/26

Left Out: -157.242 ± 80.796 χ^2/NDF : 22.0/24

Right Out: 8.792 ± 120.346 χ^2/NDF : 29.9/30

Left In: -58.934 ± 82.584 χ^2/NDF : 38.5/22

Left: -109.164 ± 57.753 χ^2/NDF : 61.3/47

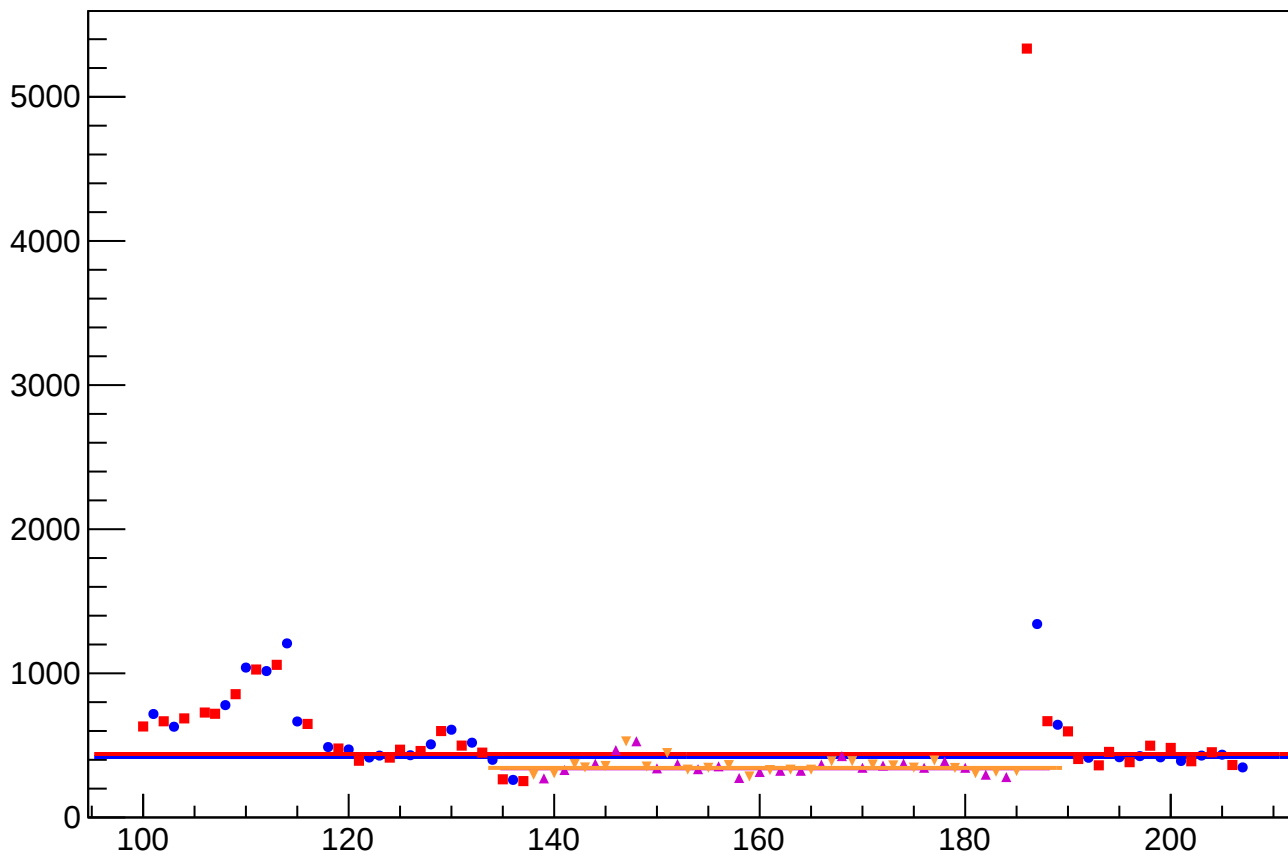
Right: 45.068 ± 84.475 χ^2/NDF : 55.3/57

In: -13.470 ± 67.774 χ^2/NDF : 64.7/49

Out: -105.657 ± 67.080 χ^2/NDF : 53.2/55

All: -60.037 ± 47.676 χ^2/NDF : 118.9/105

asym_sam1_rms vs Slug, Sign Corrected



Right In: 419.625+/-0.084 χ^2/NDF : 2333518.5/26

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 440.282+/-0.085 χ^2/NDF : 3146716.2/30

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

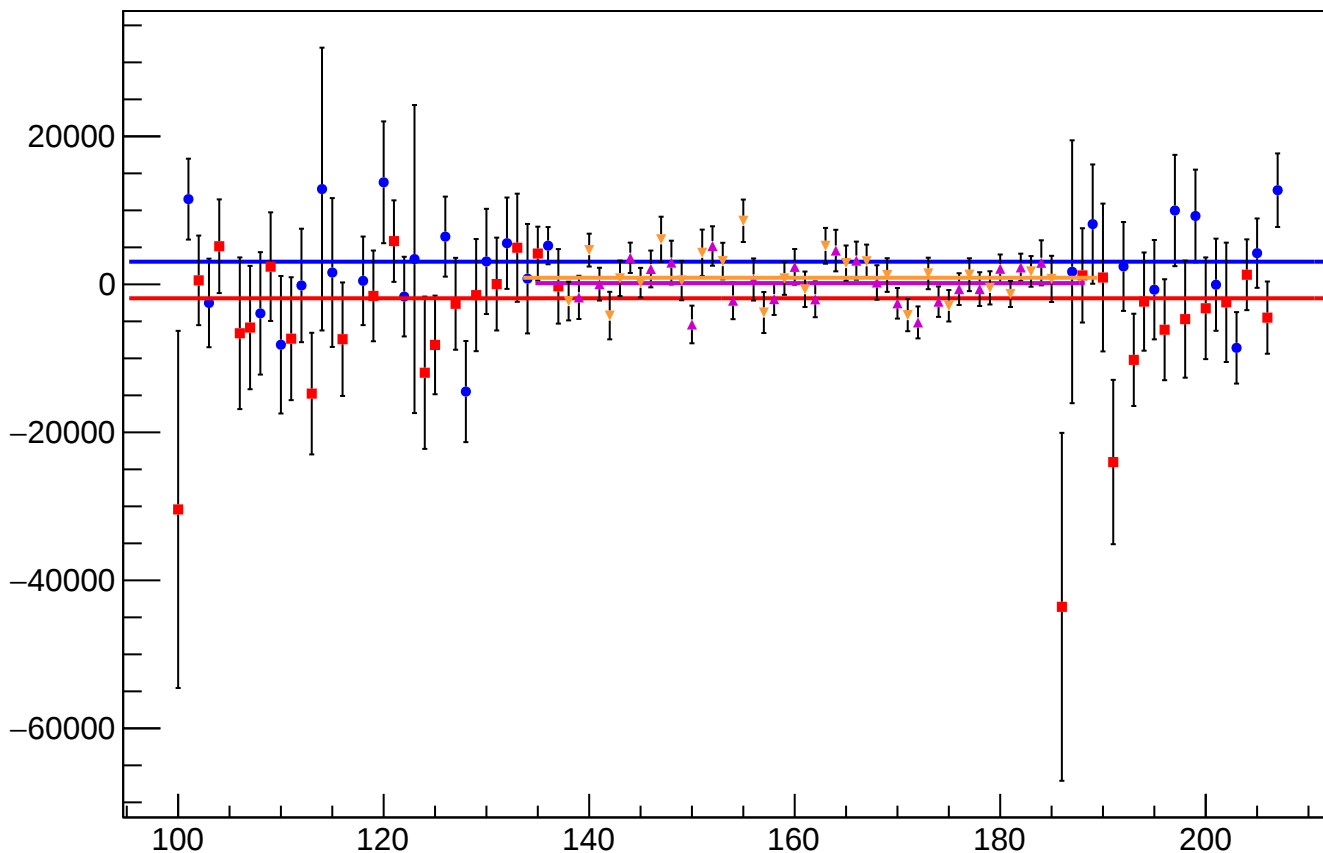
Right: 429.803+/-0.060 χ^2/NDF : 5510126.2/57

In: 366.589+/-0.048 χ^2/NDF : 3651984.6/49

Out: 373.781+/-0.047 χ^2/NDF : 4572109.8/55

All: 370.222+/-0.034 χ^2/NDF : 8235469.1/105

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3063.362 ± 1161.328 χ^2/NDF : 29.0/26

Left Out: 890.395 ± 473.262 χ^2/NDF : 38.0/24

Right Out: -1879.719 ± 1204.040 χ^2/NDF : 25.2/30

Left In: 172.391 ± 488.067 χ^2/NDF : 33.2/22

Left: 542.448 ± 339.760 χ^2/NDF : 72.3/47

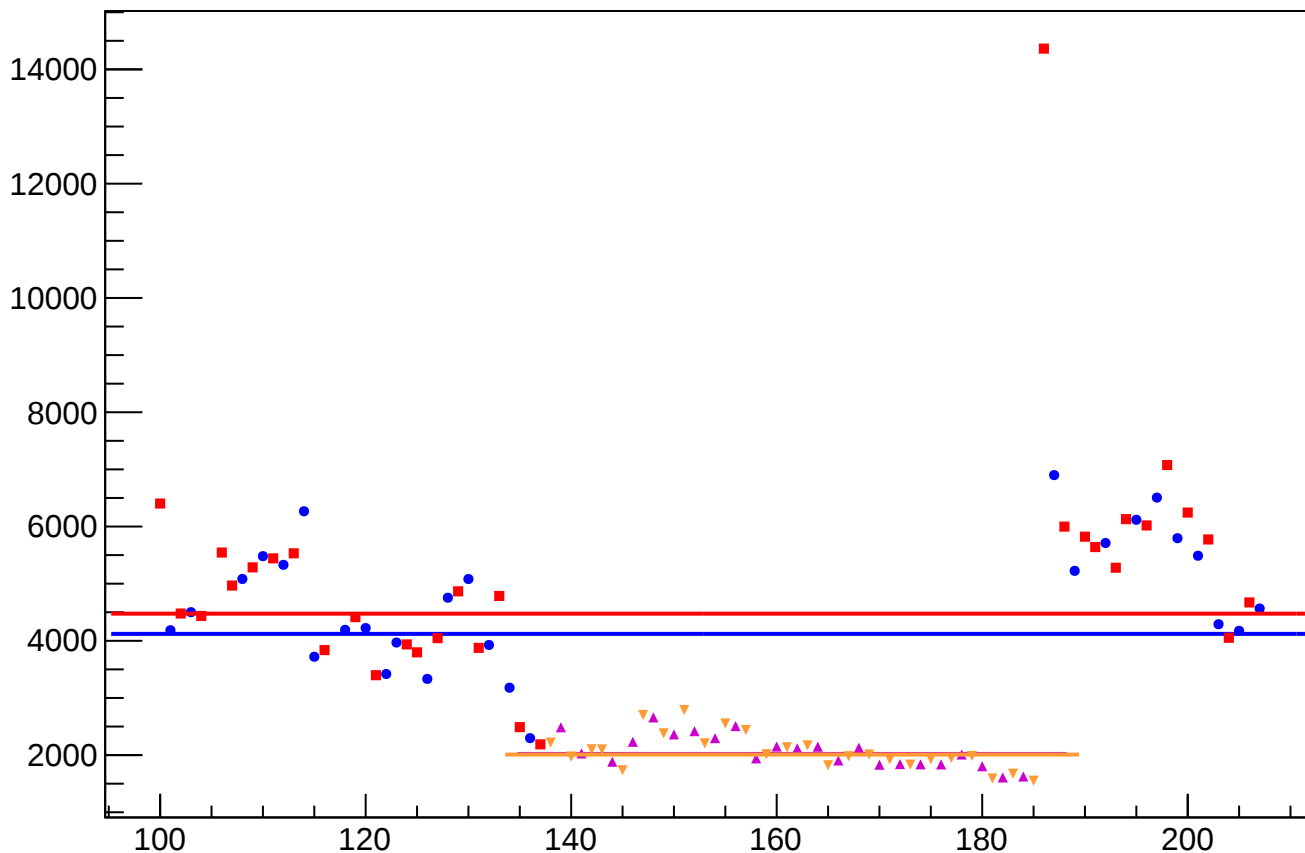
Right: 681.051 ± 835.875 χ^2/NDF : 62.9/57

In: 606.357 ± 449.946 χ^2/NDF : 67.5/49

Out: 519.692 ± 440.459 χ^2/NDF : 67.7/55

All: 562.101 ± 314.752 χ^2/NDF : 135.2/105

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4121.518 $\pm$ 0.821 χ^2 /NDF: 2239376.6/26

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4475.348 $\pm$ 0.851 χ^2 /NDF: 2496333.9/30

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

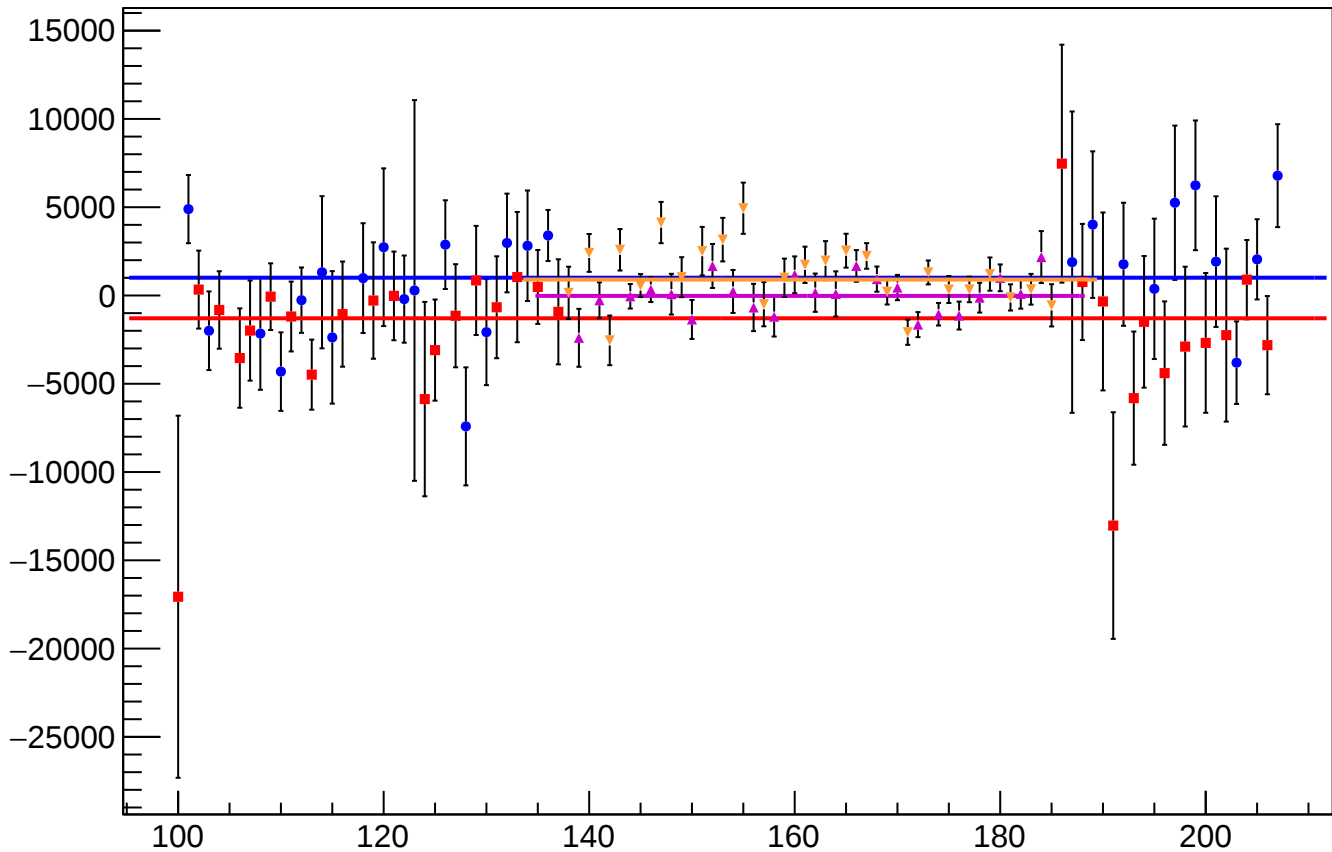
Right: 4292.046 $\pm$ 0.591 χ^2 /NDF: 4825187.1/57

In: 2335.771 $\pm$ 0.318 χ^2 /NDF: 8376999.3/49

Out: 2339.599 $\pm$ 0.311 χ^2 /NDF: 10471412.3/55

All: 2337.726 $\pm$ 0.223 χ^2 /NDF: 18848485.5/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1007.280 ± 535.153 χ^2/NDF : 37.8/26

Left Out: 902.091 ± 185.850 χ^2/NDF : 63.5/24

Right Out: -1291.836 ± 526.996 χ^2/NDF : 18.8/30

Left In: -23.529 ± 188.137 χ^2/NDF : 28.2/22

Left: 444.940 ± 132.217 χ^2/NDF : 104.0/47

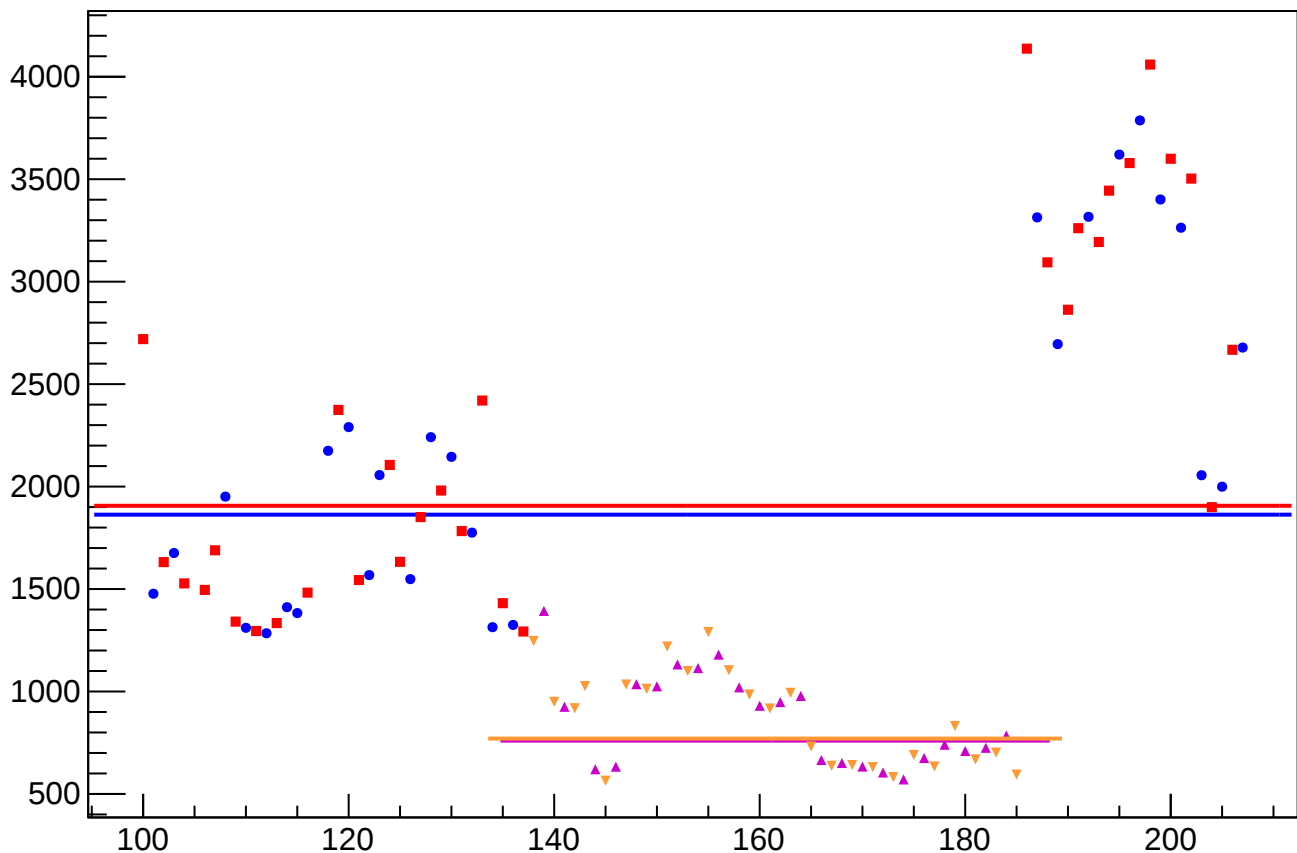
Right: -159.933 ± 375.493 χ^2/NDF : 66.0/57

In: 89.857 ± 177.488 χ^2/NDF : 69.3/49

Out: 659.417 ± 175.270 χ^2/NDF : 97.7/55

All: 378.217 ± 124.712 χ^2/NDF : 172.3/105

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1862.955+/-0.378 χ^2/NDF : 3030946.7/26

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1906.302+/-0.373 χ^2/NDF : 3804637.5/30

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

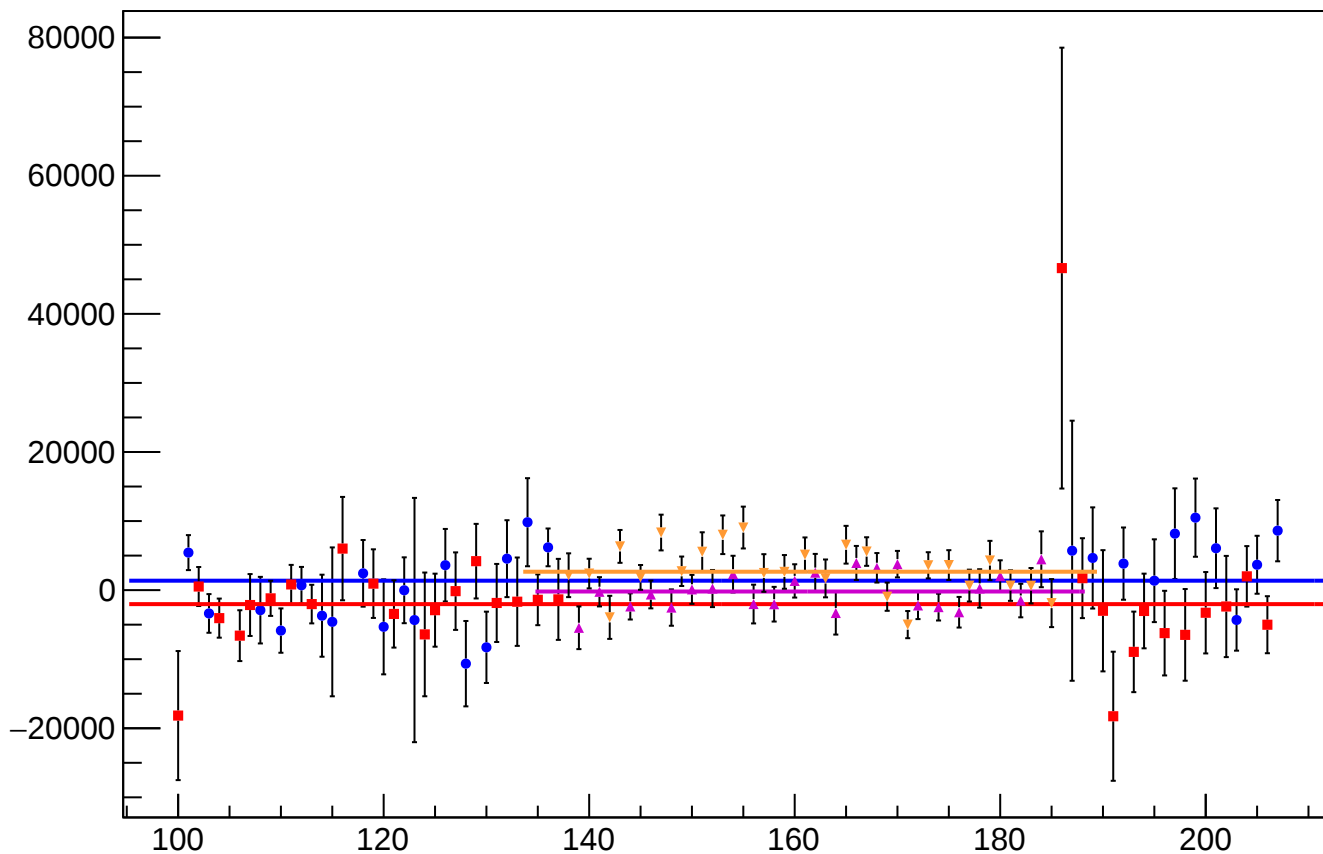
Right: 1884.961+/-0.266 χ^2/NDF : 6842245.9/57

In: 881.635+/-0.126 χ^2/NDF : 12573891.6/49

Out: 895.973+/-0.124 χ^2/NDF : 14357406.7/55

All: 888.894+/-0.088 χ^2/NDF : 26937906.1/10

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1366.039 $\pm$ 866.310 χ^2 /NDF: 35.6/26

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF:49.2/24

Right Out: -2026.135 $\pm$ 818.315 χ^2 /NDF: 19.9/30

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF:25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

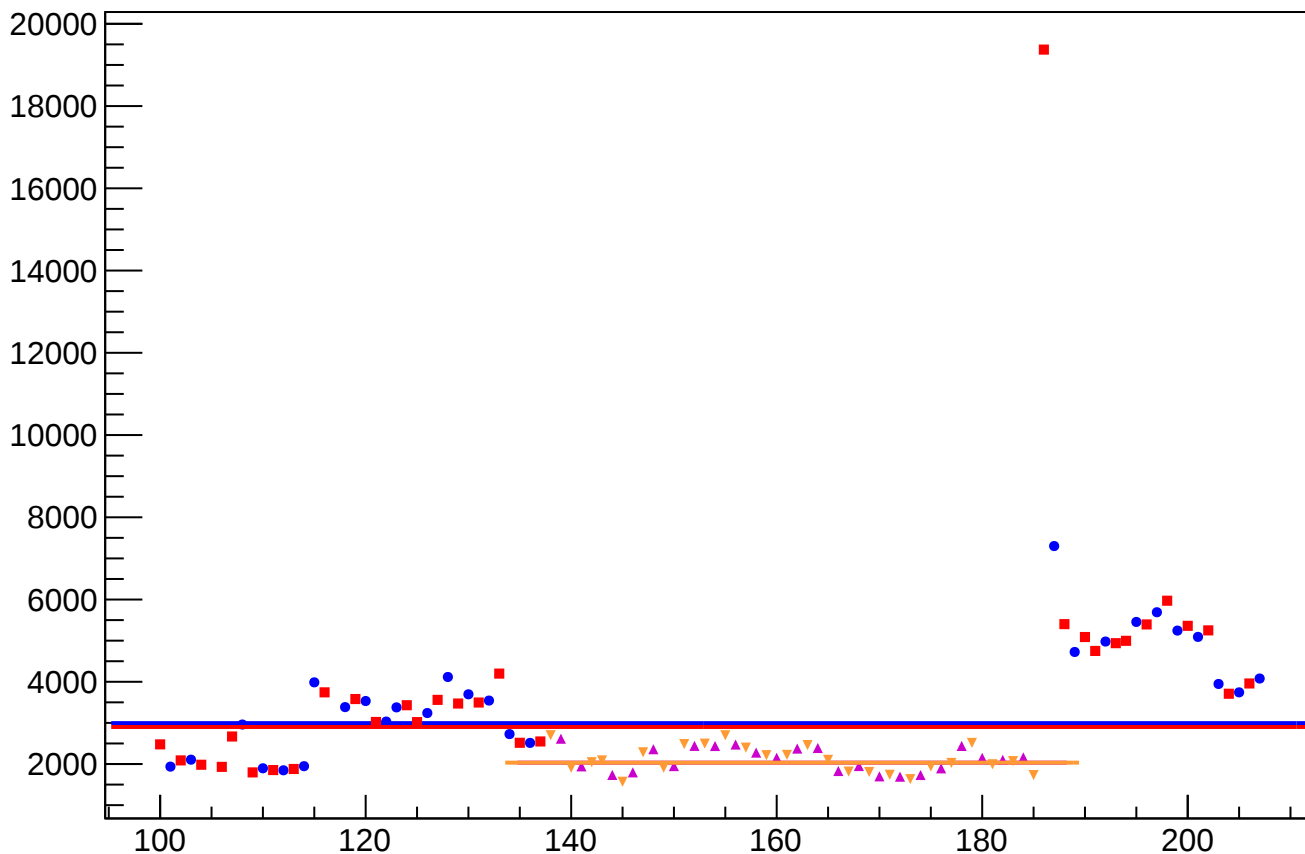
Right: -426.612 $\pm$ 594.880 χ^2 /NDF: 63.6/57

In: 182.497 $\pm$ 427.874 χ^2 /NDF:63.9/49

Out: 1465.404 $\pm$ 413.884 χ^2 /NDF:93.6/55

All: 845.266 $\pm$ 297.483 χ^2 /NDF: 162.1/105

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2994.342 $\pm$ 0.613 χ^2 /NDF: 3488403.5/26

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2901.253 $\pm$ 0.579 χ^2 /NDF: 4866409.6/30

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF: 652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

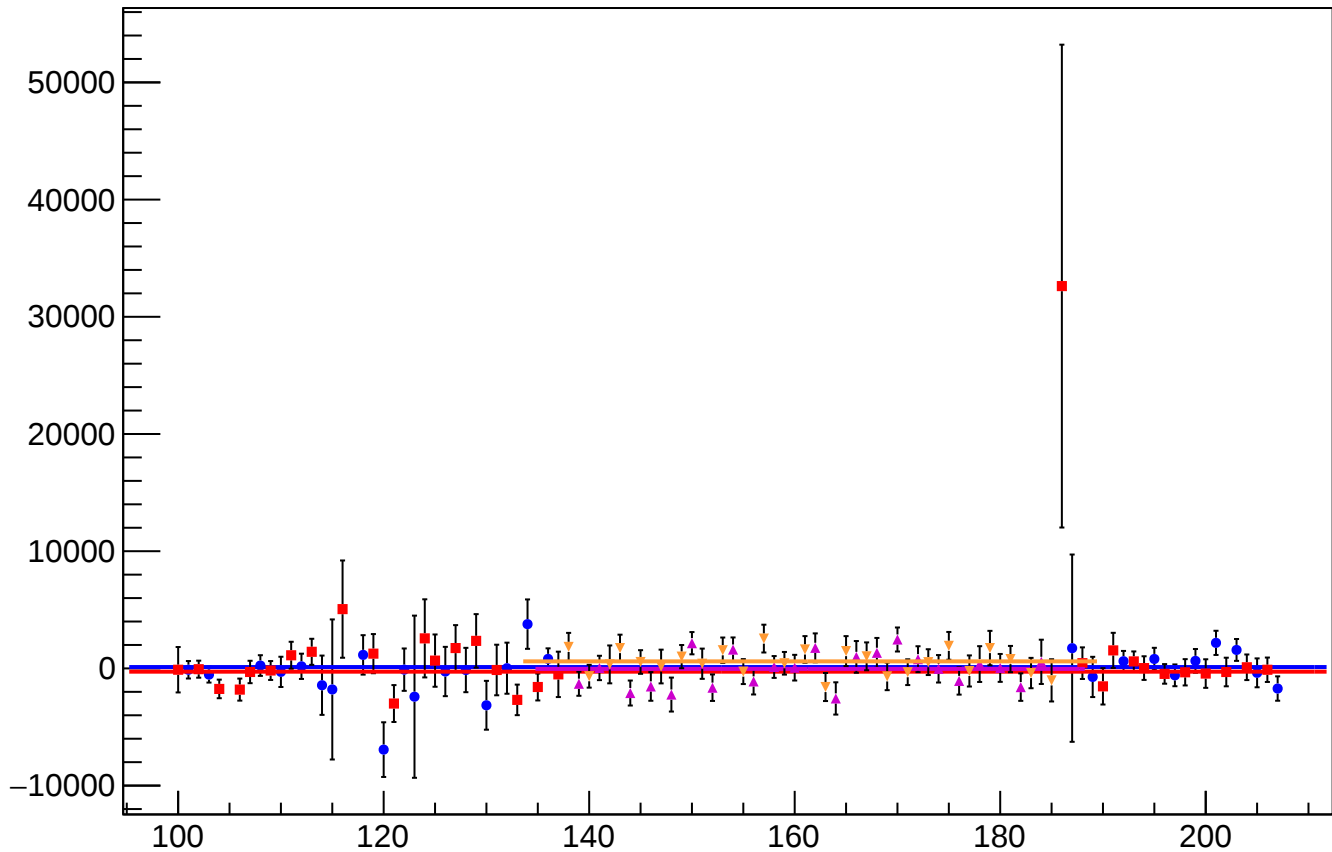
Right: 2945.147 $\pm$ 0.421 χ^2 /NDF: 8367016.9/57

In: 2267.249 $\pm$ 0.303 χ^2 /NDF: 6004570.9/49

Out: 2255.357 $\pm$ 0.293 χ^2 /NDF: 7364754.5/55

All: 2261.106 $\pm$ 0.210 χ^2 /NDF: 13370123.6/102

asym_sam5_mean vs Slug, Sign Corrected



Right In: 115.919 $\pm$ 231.075 χ^2 /NDF: 29.1/26

Left Out: 600.005 $\pm$ 234.968 χ^2 /NDF:18.5/24

Right Out: -277.901 $\pm$ 215.253 χ^2 /NDF: 29.8/30

Left In: -41.559 $\pm$ 240.807 χ^2 /NDF:36.4/22

Left: 287.096 $\pm$ 168.174 χ^2 /NDF: 58.5/47

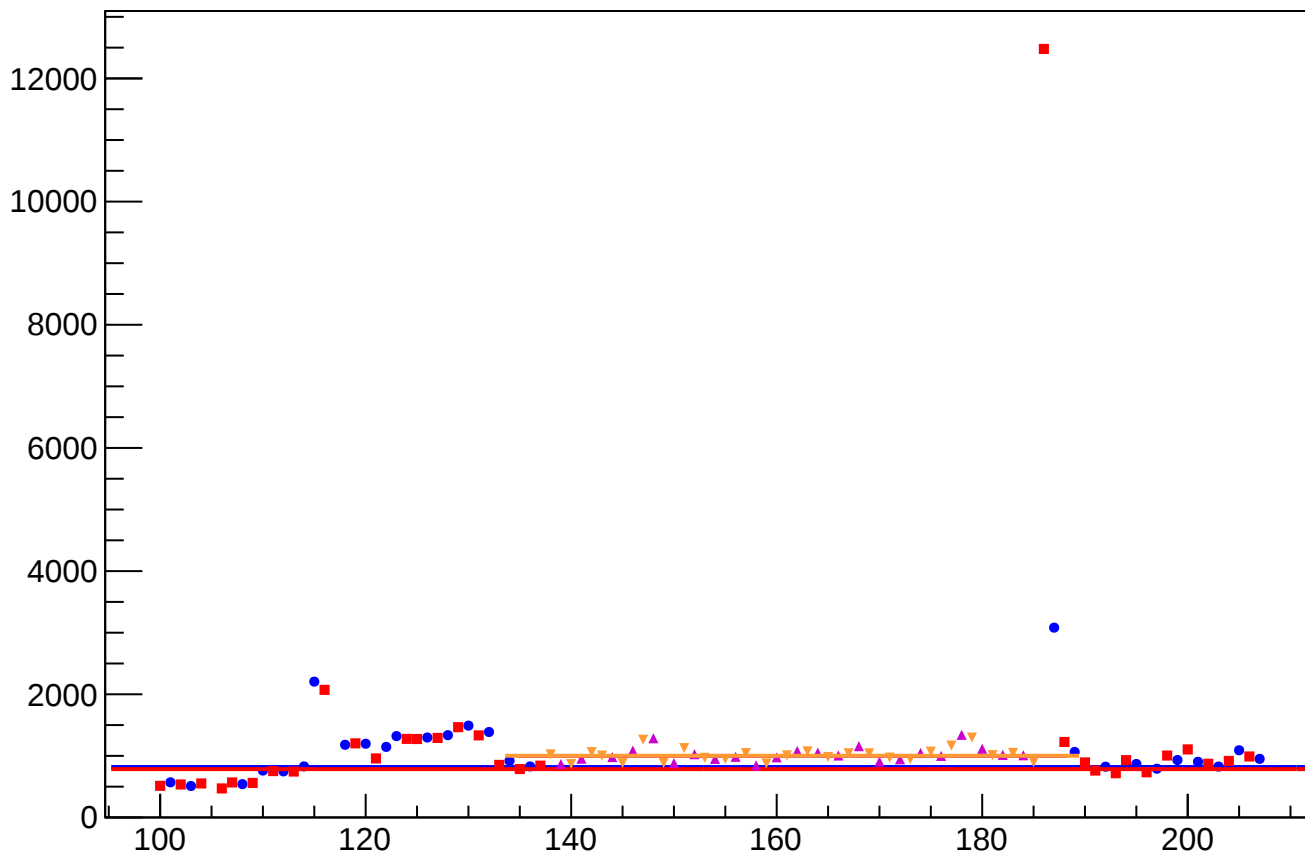
Right: -94.934 $\pm$ 157.503 χ^2 /NDF: 60.5/57

In: 40.426 $\pm$ 166.729 χ^2 /NDF:65.7/49

Out: 122.682 $\pm$ 158.720 χ^2 /NDF:55.9/55

All: 83.577 $\pm$ 114.959 χ^2 /NDF: 121.7/105

asym_sam5_rms vs Slug, Sign Corrected



Right In: 818.504+/-0.163 χ^2/NDF : 2151558.0/26

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 784.840+/-0.152 χ^2/NDF : 3122946.7/30

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

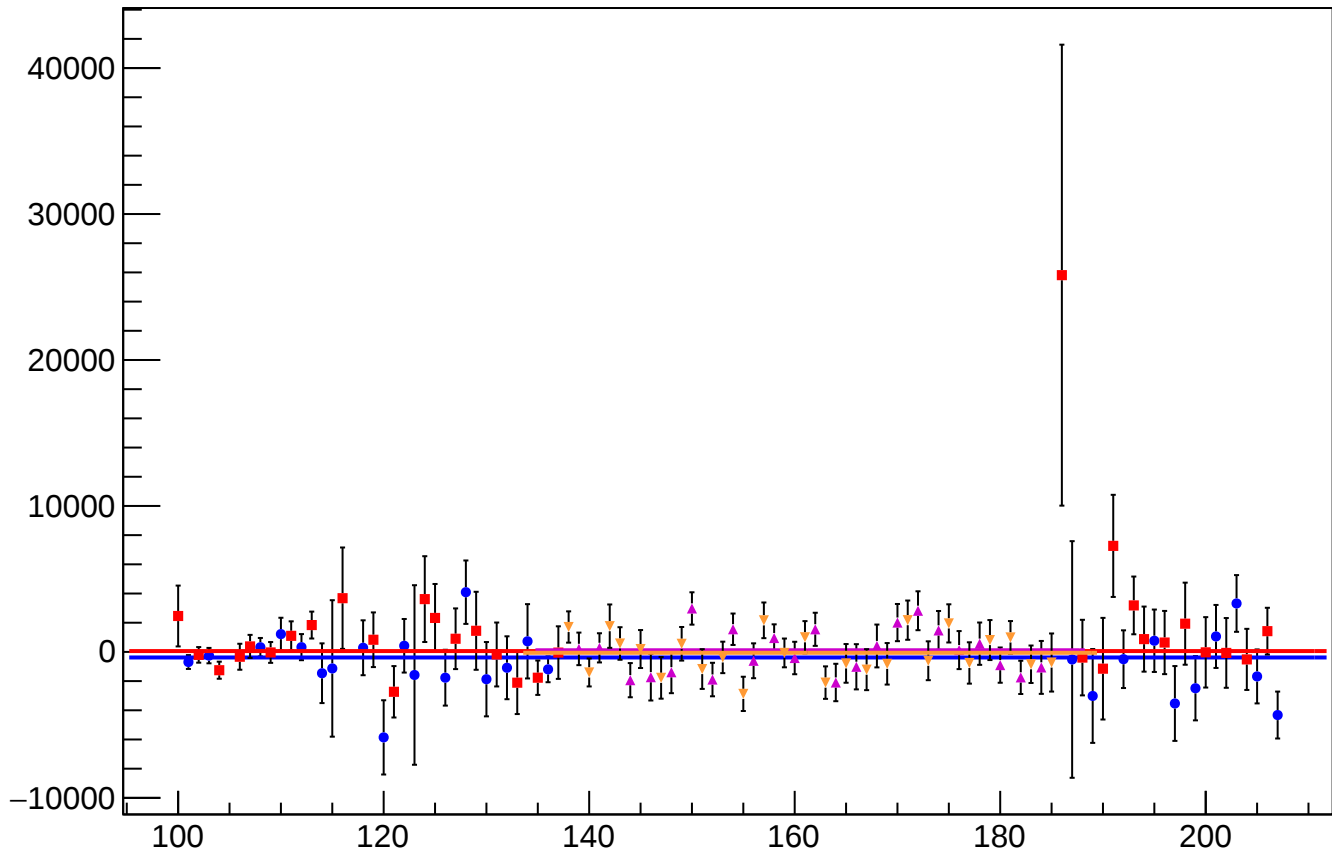
Right: 800.480+/-0.111 χ^2/NDF : 5297230.6/57

In: 904.575+/-0.118 χ^2/NDF : 3135058.8/49

Out: 883.688+/-0.112 χ^2/NDF : 4417560.1/55

All: 893.618+/-0.081 χ^2/NDF : 7569085.4/105

asym_sam6_mean vs Slug, Sign Corrected



Right In: -381.671 ± 235.590 χ^2/NDF : 29.9/26

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 56.879 ± 232.022 χ^2/NDF : 32.9/30

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

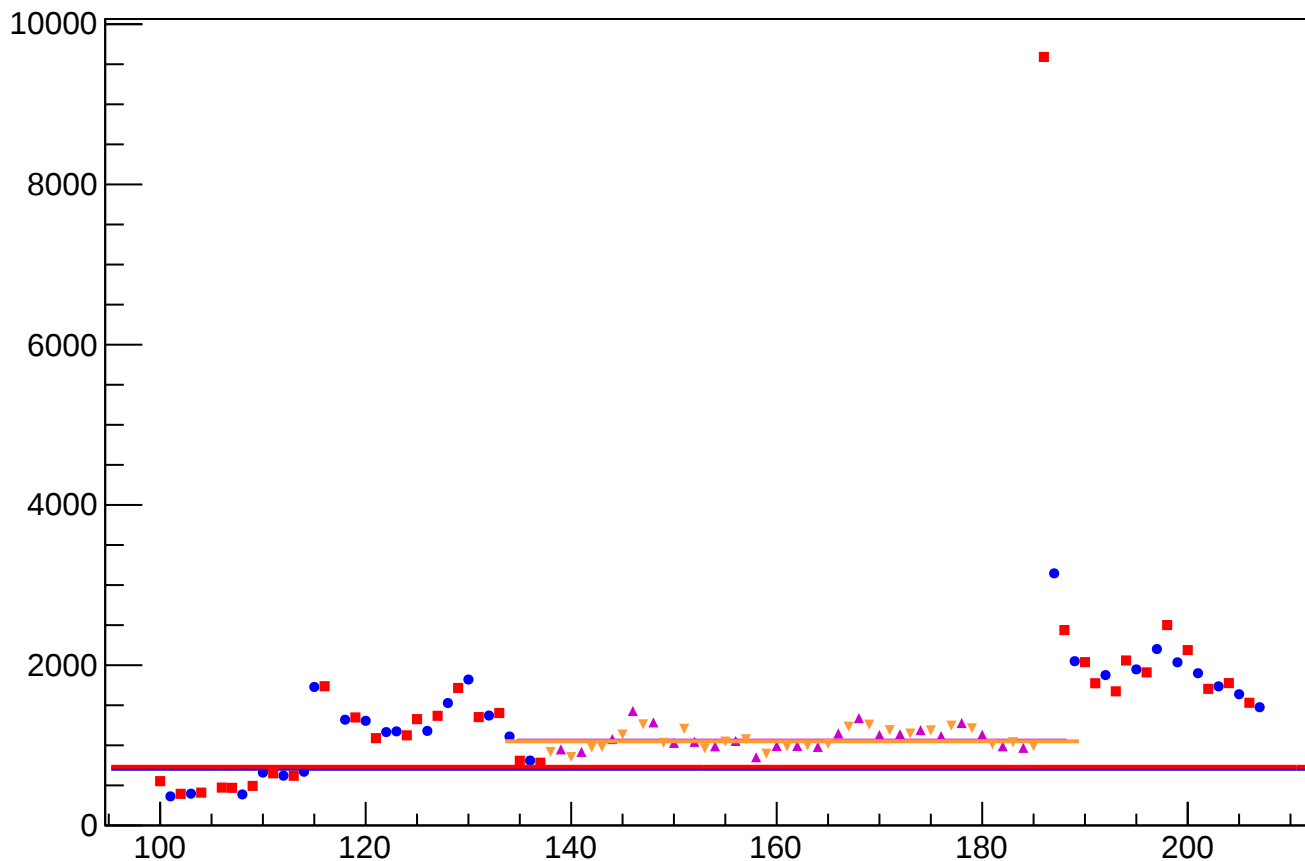
Right: -159.050 ± 165.311 χ^2/NDF : 64.6/57

In: -154.548 ± 173.170 χ^2/NDF : 66.8/49

Out: 2.054 ± 168.952 χ^2/NDF : 64.0/55

All: -74.316 ± 120.931 χ^2/NDF : 131.2/105

asym_sam6_rms vs Slug, Sign Corrected



Right In: 708.093+/-0.167 χ^2/NDF : 9335603.6/26

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 732.052+/-0.164 χ^2/NDF : 10093820.8/30

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

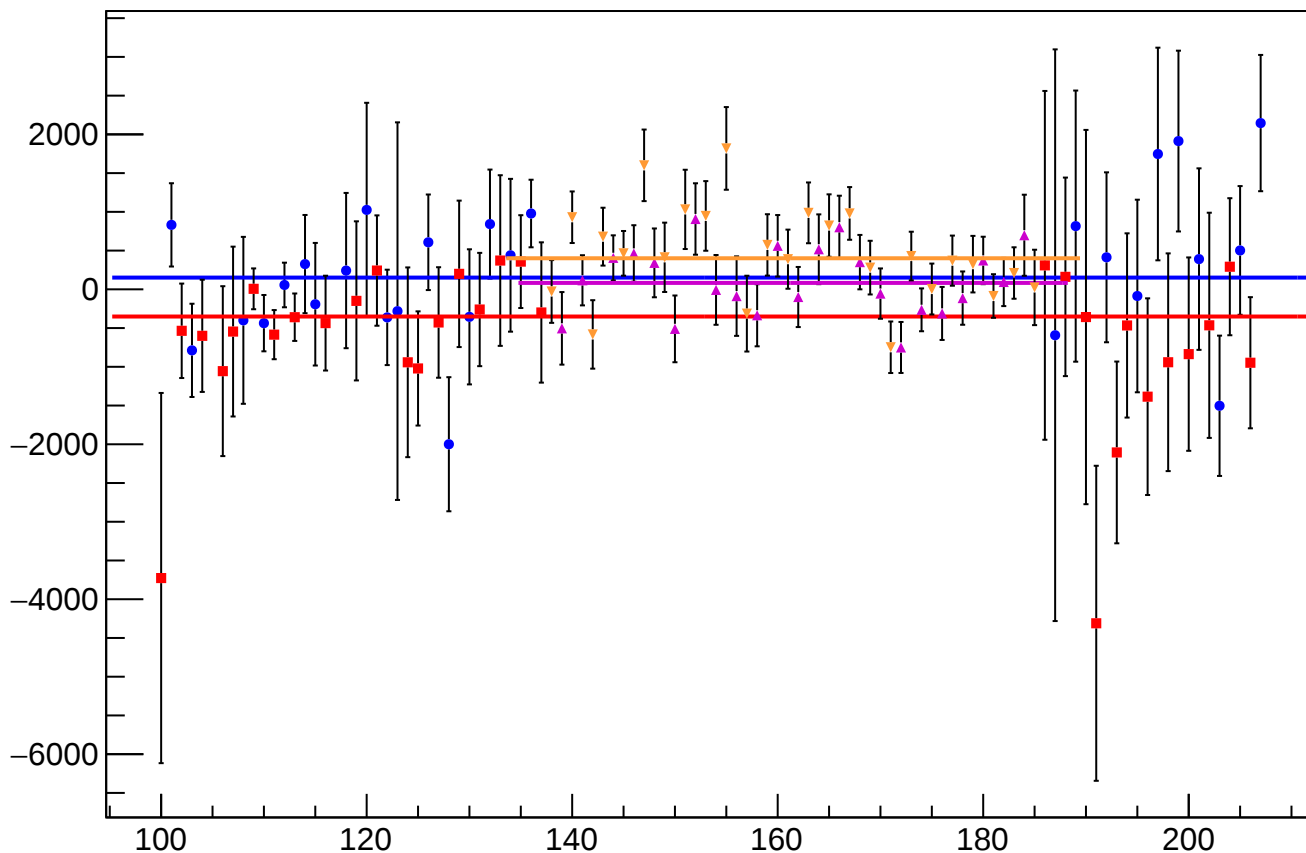
Right: 720.256+/-0.117 χ^2/NDF : 19439924.8/57

In: 868.990+/-0.122 χ^2/NDF : 11893435.1/49

Out: 881.718+/-0.119 χ^2/NDF : 12348440.5/55

All: 875.511+/-0.086 χ^2/NDF : 24247411.4/100

asym_sam7_mean vs Slug, Sign Corrected



Right In: 151.511 ± 132.976 χ^2/NDF : 32.7/26

Left Out: 400.988 ± 74.546 χ^2/NDF : 52.1/24

Right Out: -350.980 ± 122.250 χ^2/NDF : 17.4/30

Left In: 82.890 ± 76.904 χ^2/NDF : 29.0/22

Left: 246.889 ± 53.526 χ^2/NDF : 89.9/47

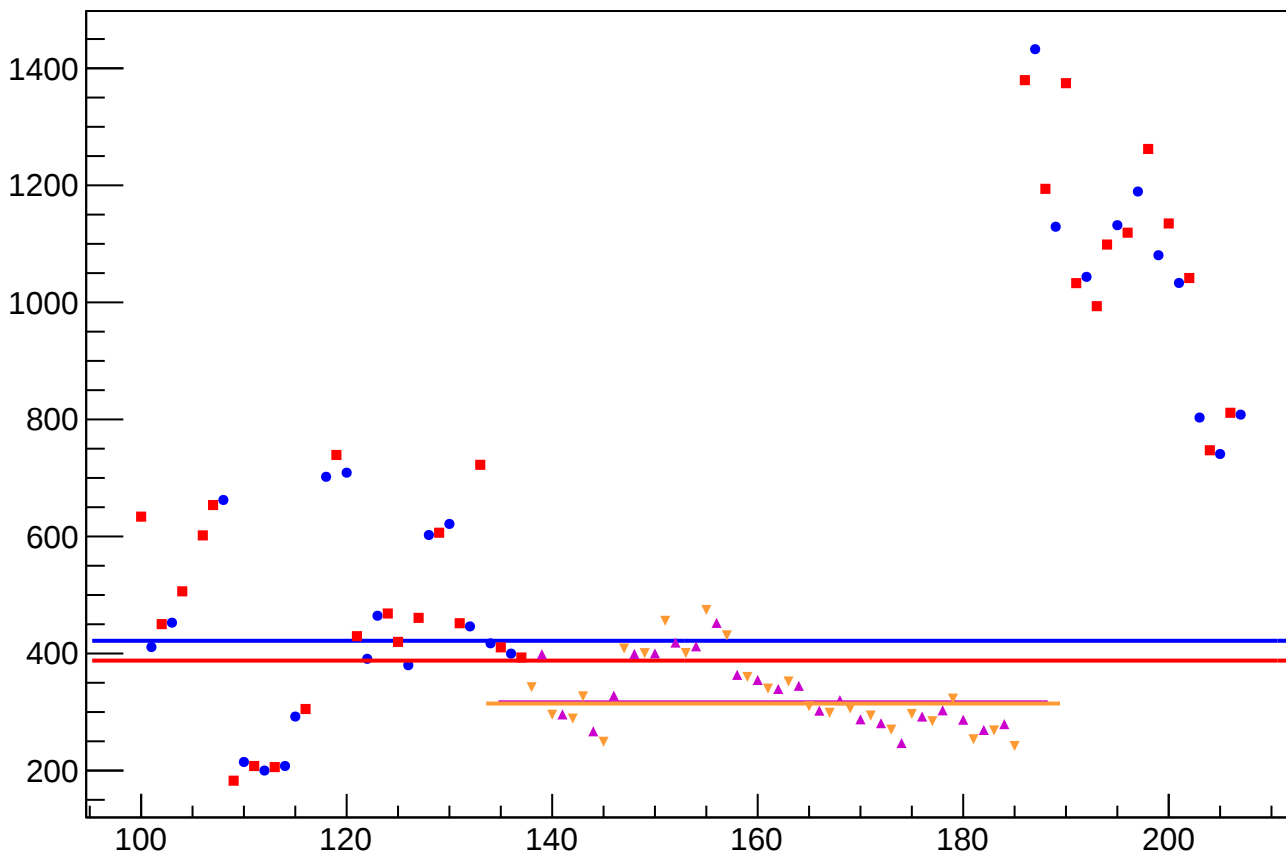
Right: -120.815 ± 89.997 χ^2/NDF : 57.8/57

In: 100.089 ± 66.573 χ^2/NDF : 61.9/49

Out: 197.165 ± 63.647 χ^2/NDF : 97.0/55

All: 150.807 ± 46.005 χ^2/NDF : 160.0/105

asym_sam7_rms vs Slug, Sign Corrected



Right In: 421.764 $\pm$ 0.094 χ^2 /NDF: 7297389.1/26

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF:1112445.6/24

Right Out: 387.888 $\pm$ 0.086 χ^2 /NDF: 9827545.8/30

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF:920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

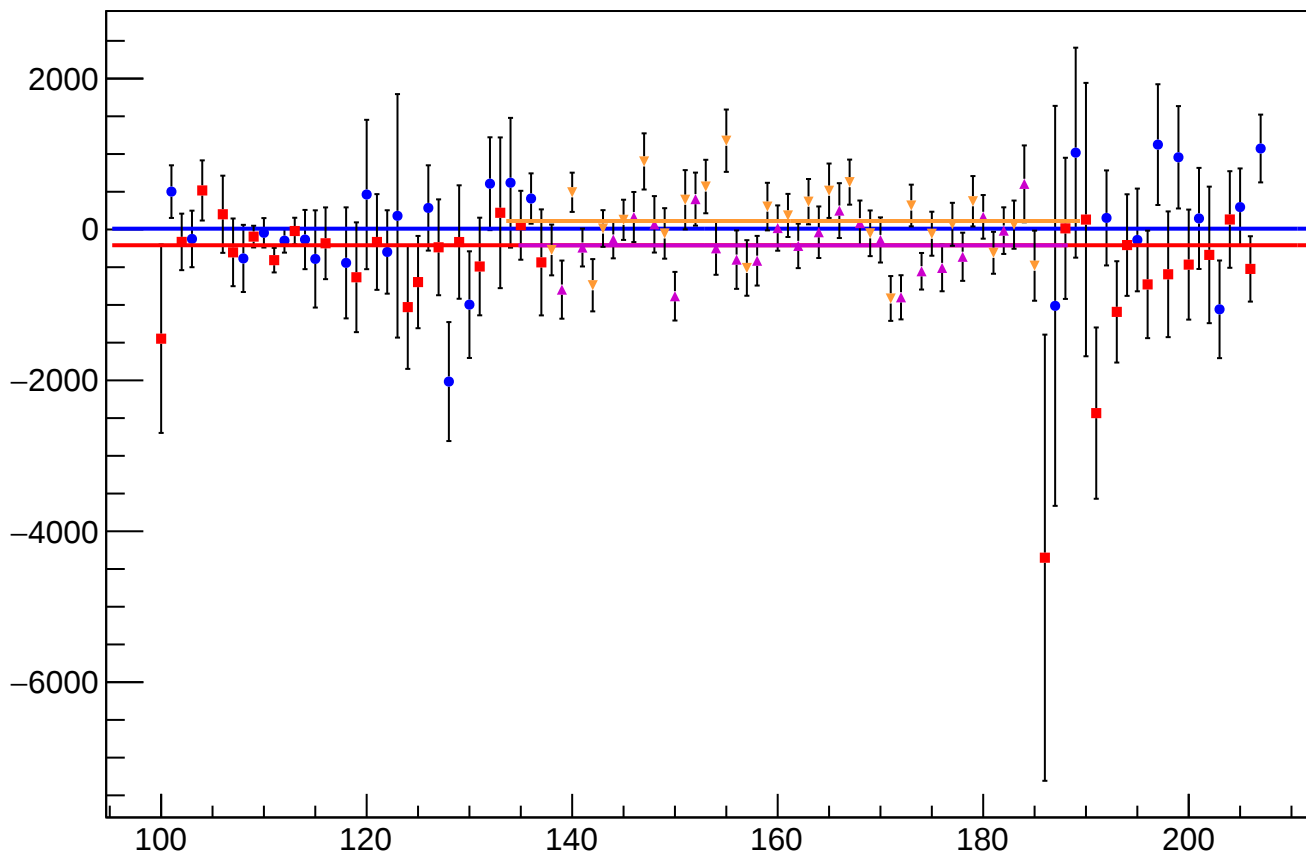
Right: 403.405 $\pm$ 0.064 χ^2 /NDF: 17195279.9/57

In: 342.993 $\pm$ 0.047 χ^2 /NDF:9154797.0/49

Out: 334.420 $\pm$ 0.045 χ^2 /NDF:11464827.7/55

All: 338.514 $\pm$ 0.033 χ^2 /NDF: 20636953.9/100

asym_sam8_mean vs Slug, Sign Corrected



Right In: 10.565 ± 83.324 χ^2/NDF : 30.5/26

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -208.905 ± 72.576 χ^2/NDF : 20.4/30

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

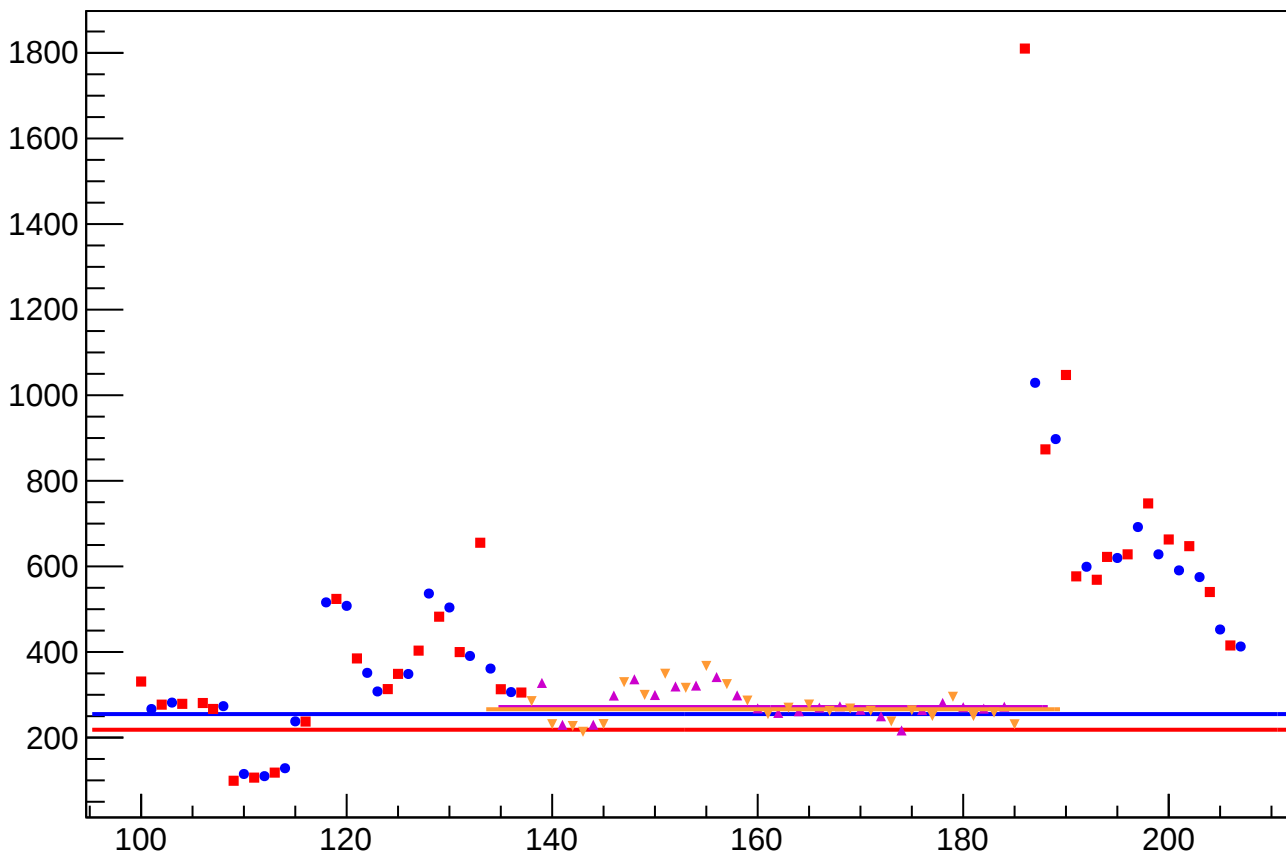
Right: -114.229 ± 54.727 χ^2/NDF : 54.8/57

In: -126.024 ± 51.500 χ^2/NDF : 64.0/49

Out: -24.867 ± 47.422 χ^2/NDF : 80.8/55

All: -71.282 ± 34.885 χ^2/NDF : 146.8/105

asym_sam8_rms vs Slug, Sign Corrected



Right In: 254.902 $\pm$ 0.059 χ^2 /NDF: 8615910.5/26

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 218.315 $\pm$ 0.051 χ^2 /NDF: 11845263.1/30

Left In: 271.415 $\pm$ 0.046 χ^2 /NDF: 521877.7/22

Left: 268.695 $\pm$ 0.032 χ^2 /NDF: 1178109.8/47

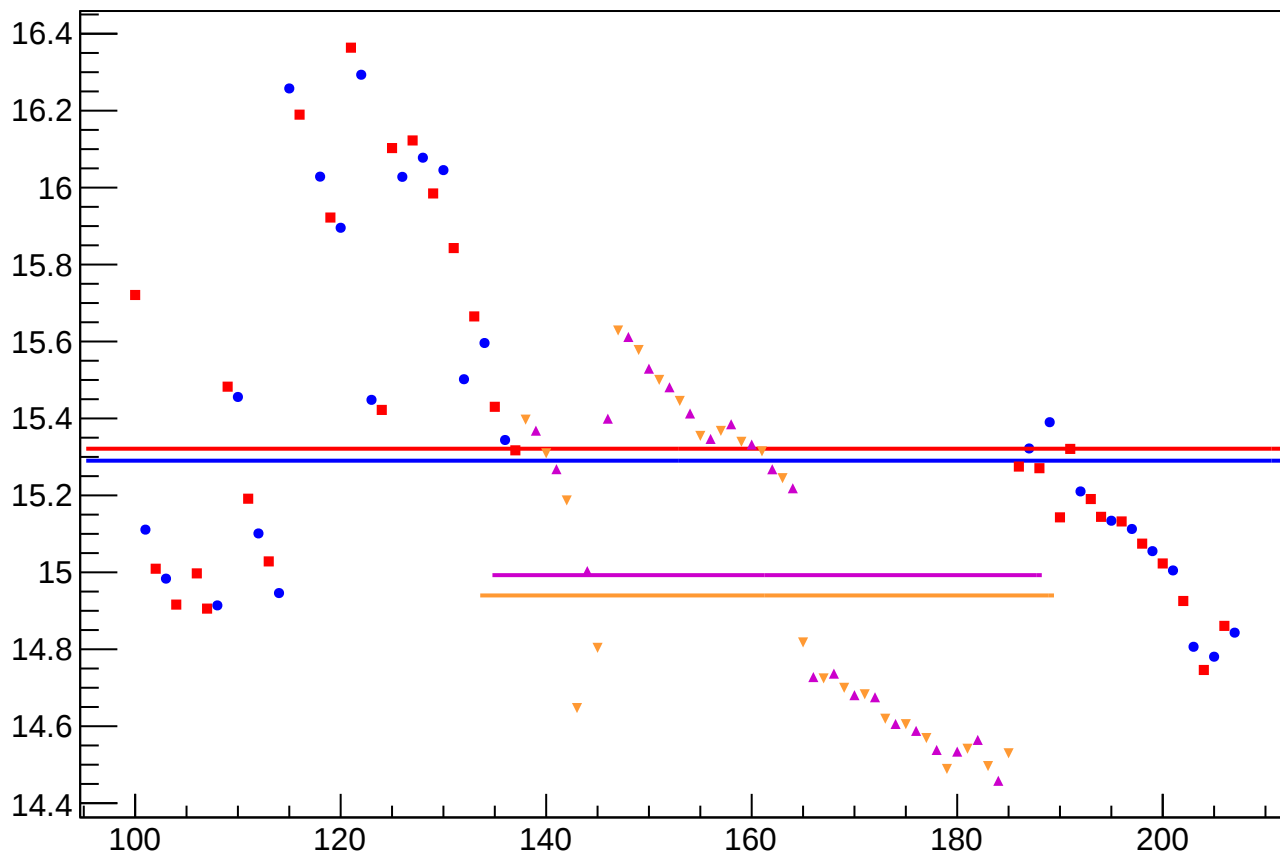
Right: 234.098 $\pm$ 0.039 χ^2 /NDF: 20680433.0/57

In: 265.107 $\pm$ 0.036 χ^2 /NDF: 9186332.4/49

Out: 245.760 $\pm$ 0.034 χ^2 /NDF: 12993980.9/55

All: 254.637 $\pm$ 0.025 χ^2 /NDF: 22333054.0/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.290+/-0.000 χ^2/NDF : 14199342965.9/26

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.321+/-0.000 χ^2/NDF : 13397977916.2/30

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

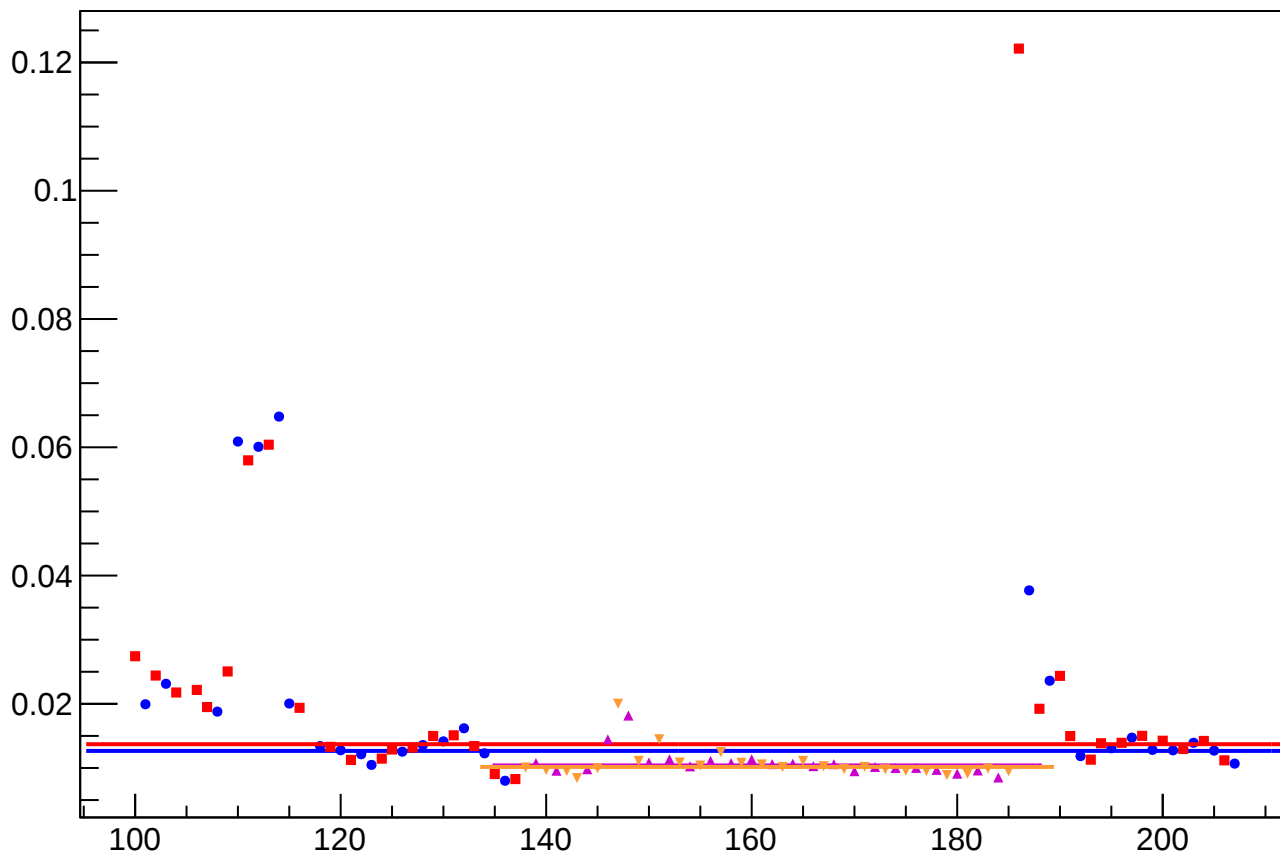
Right: 15.305+/-0.000 χ^2/NDF : 27631583056.7/57

In: 15.090+/-0.000 χ^2/NDF : 40632066141.9/49

Out: 15.050+/-0.000 χ^2/NDF : 44610984160.8/55

All: 15.070+/-0.000 χ^2/NDF : 85429865204.9

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2555560.7/26

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 3087238.7/30

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

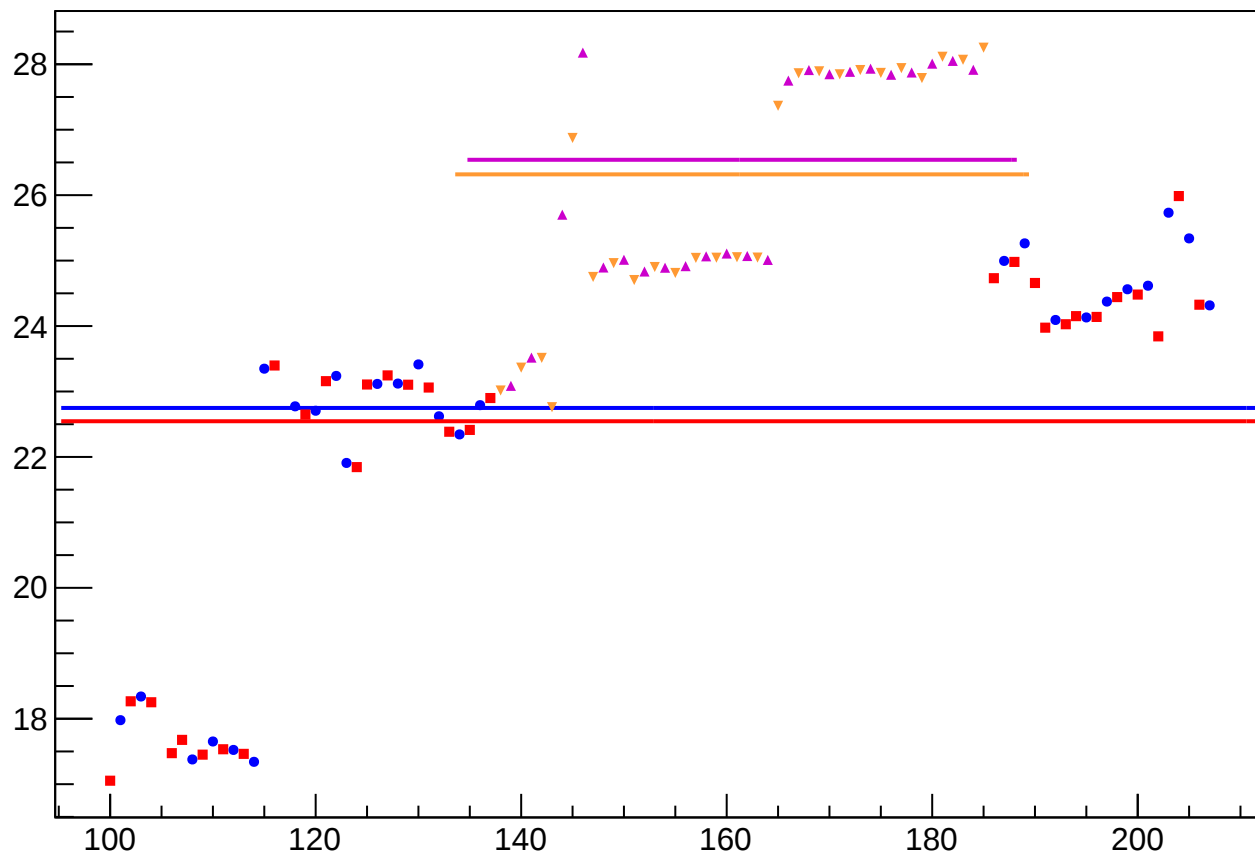
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 5719761.7/57

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3611524.3/49

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 5015049.9/55

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8627045.3/105

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.749+/-0.000

χ²/NDF: 1310927132.1/26

Left: 26.424+/-0.000

χ²/NDF: 8058273722.3/47

Right: 22.652+/-0.000

χ²/NDF: 2816954474.4/57

Left Out: 26.318+/-0.000

χ²/NDF: 4715403741.0/24

In: 25.677+/-0.000

χ²/NDF: 8862462327.0/49

Right Out: 22.546+/-0.000

χ²/NDF: 1498495290.8/30

Out: 25.568+/-0.000

χ²/NDF: 10202520981.4/55

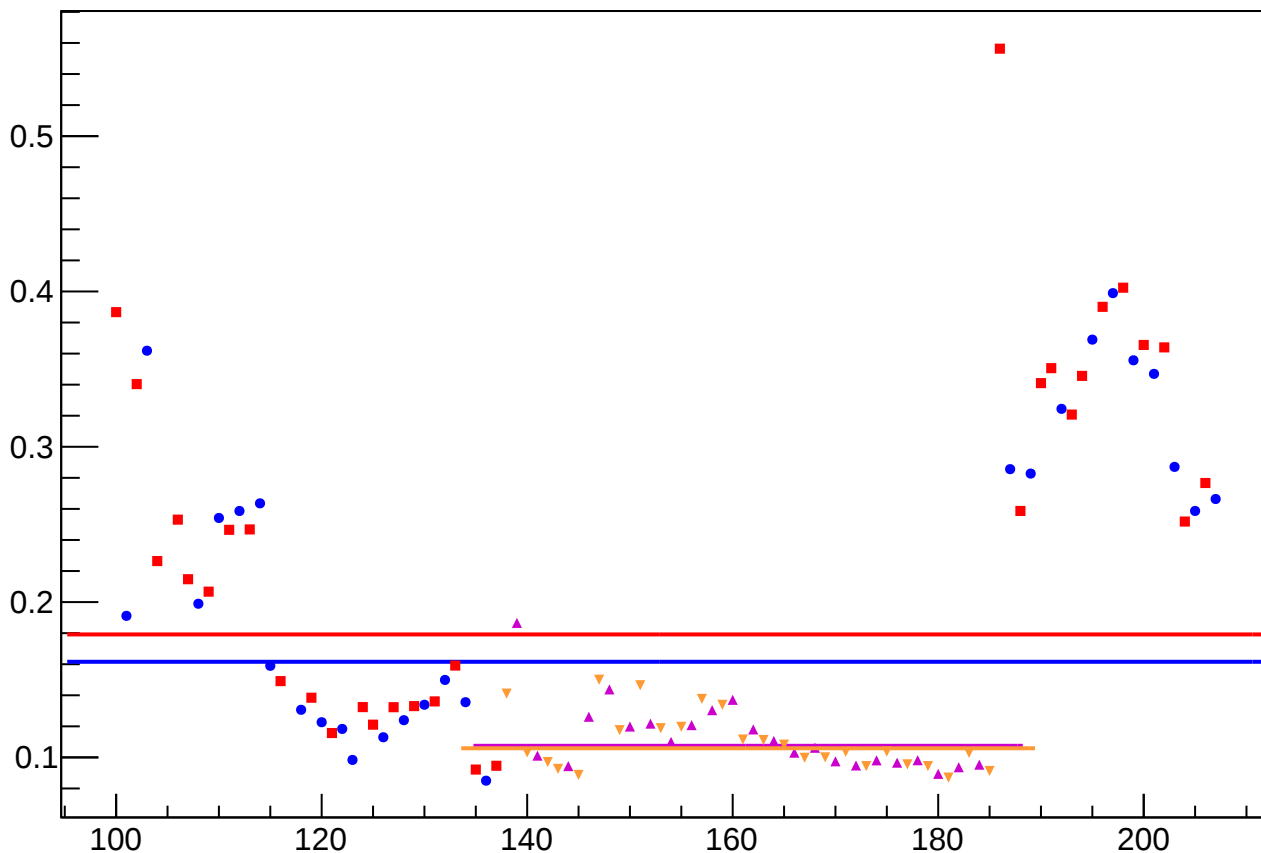
Left In: 26.540+/-0.000

χ²/NDF: 3309392772.6/22

All: 25.621+/-0.000

χ²/NDF: 19075146344.4

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.000 χ^2 /NDF: 5611722.9/26

Left Out: 0.106 $\pm$ 0.000 χ^2 /NDF:732883.8/24

Right Out: 0.179 $\pm$ 0.000 χ^2 /NDF: 5632150.9/30

Left In: 0.107 $\pm$ 0.000 χ^2 /NDF:771132.0/22

Left: 0.107 $\pm$ 0.000 χ^2 /NDF: 1507414.2/47

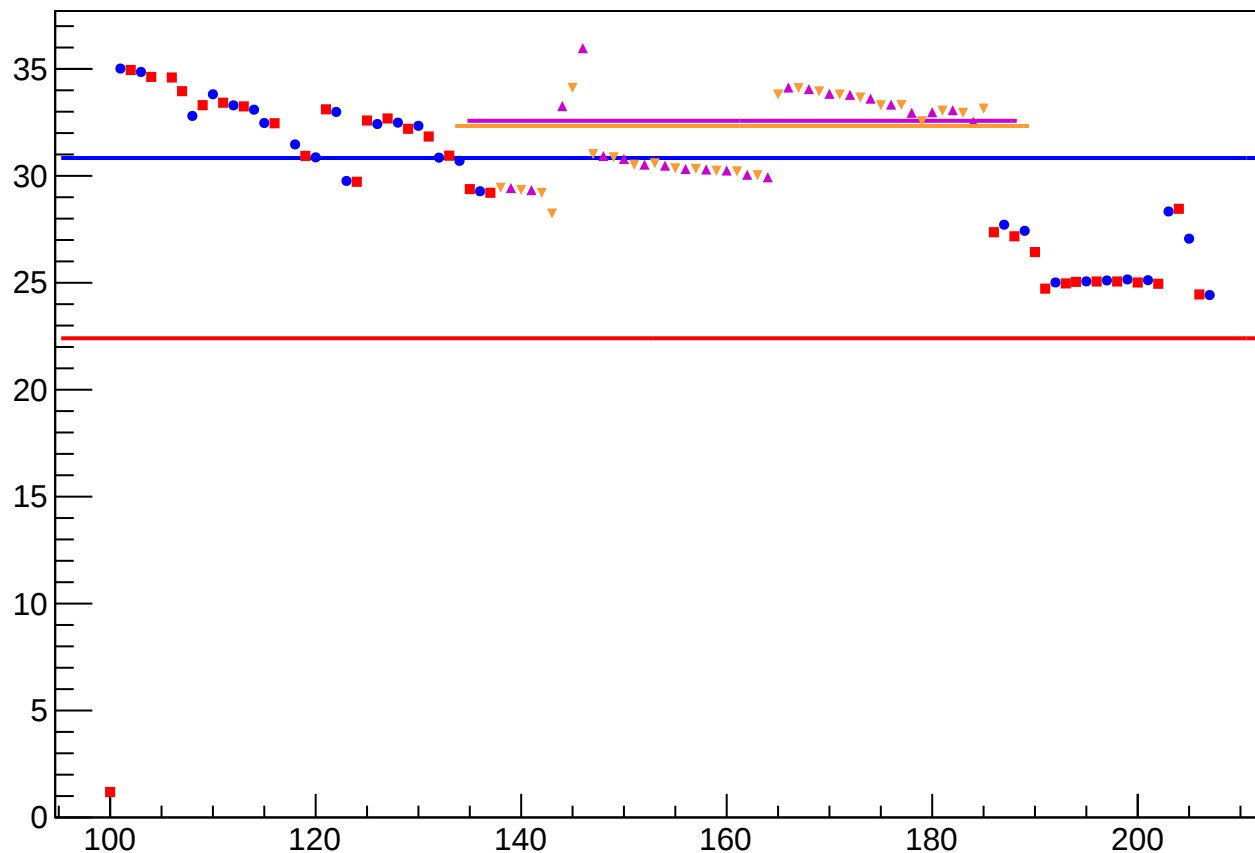
Right: 0.170 $\pm$ 0.000 χ^2 /NDF: 11357165.4/57

In: 0.120 $\pm$ 0.000 χ^2 /NDF:8110172.3/49

Out: 0.120 $\pm$ 0.000 χ^2 /NDF:9377258.0/55

All: 0.120 $\pm$ 0.000 χ^2 /NDF: 17488178.6/105

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.834+/-0.000

χ^2/NDF : 6460112094.5/26

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.900+/-0.000

χ^2/NDF : 274901924244.4/57

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

In: 32.257+/-0.000

χ^2/NDF : 20421557642.0/49

Right Out: 22.406+/-0.000

χ^2/NDF : 232100712057.5/30

Out: 30.033+/-0.000

χ^2/NDF : 338362928209.9/55

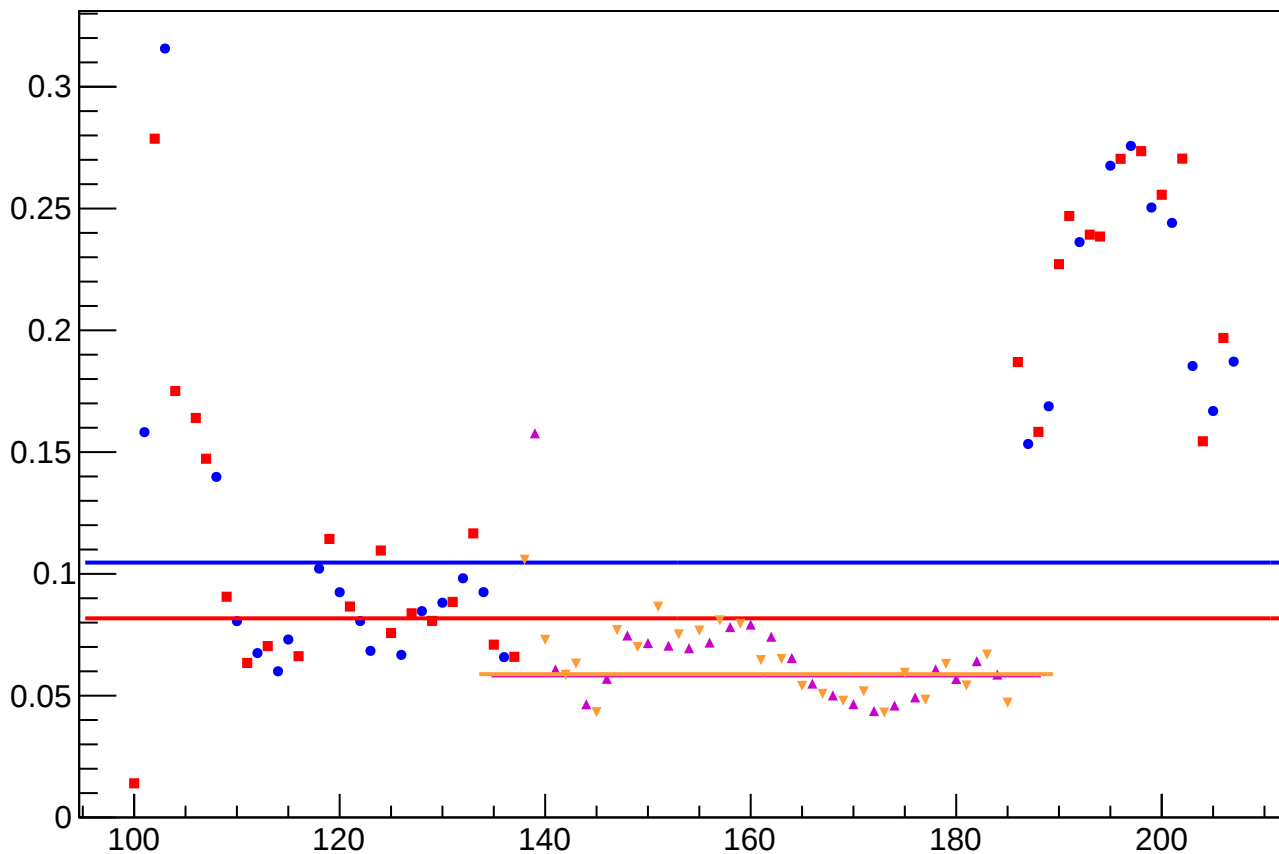
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.086+/-0.000

χ^2/NDF : 371261179419.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.105 $\pm$ 0.000 χ^2 /NDF: 5631515.2/26

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.082 $\pm$ 0.000 χ^2 /NDF: 10623091.7/30

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

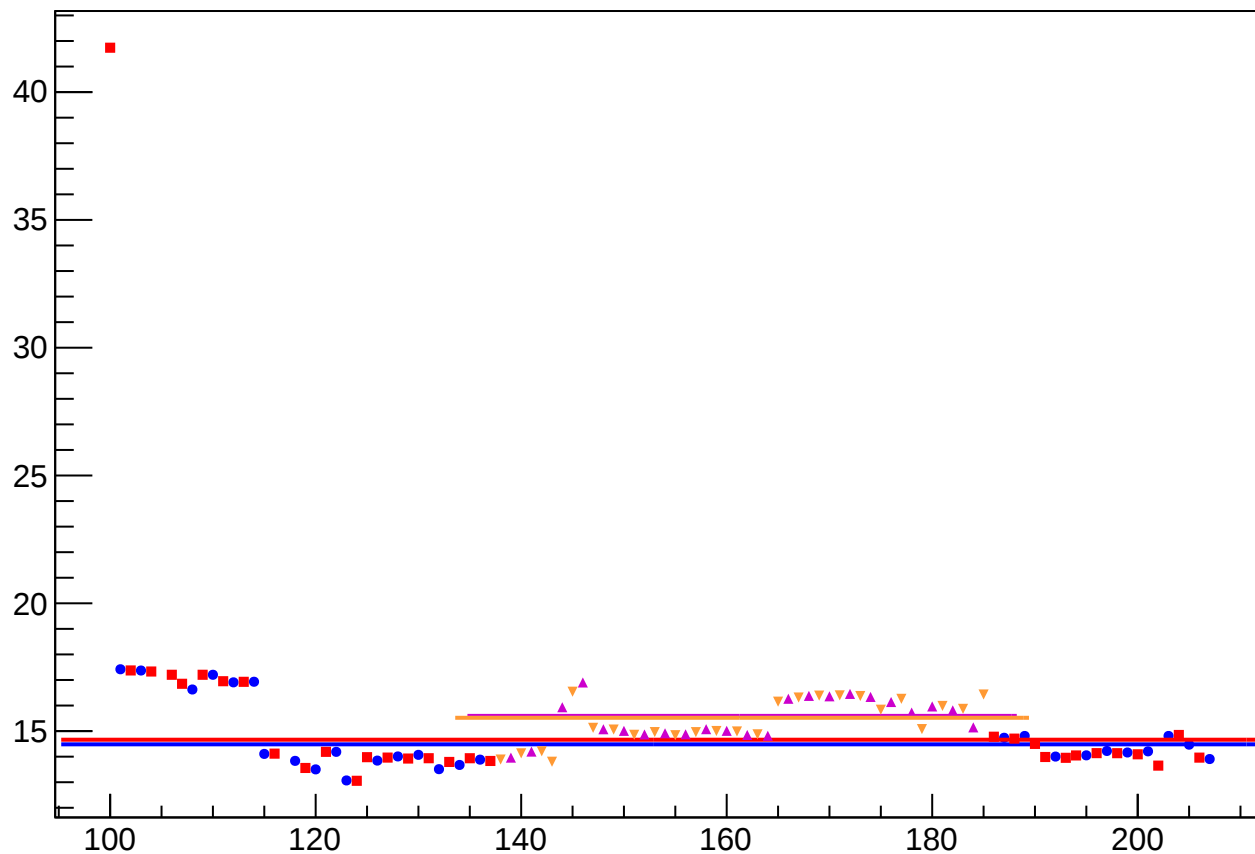
Right: 0.091 $\pm$ 0.000 χ^2 /NDF: 16790953.3/57

In: 0.067 $\pm$ 0.000 χ^2 /NDF:10225259.0/49

Out: 0.064 $\pm$ 0.000 χ^2 /NDF:13022334.4/55

All: 0.065 $\pm$ 0.000 χ^2 /NDF: 23282415.9/105

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.482+/-0.000

χ^2/NDF : 1513248042.4/26

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right Out: 14.663+/-0.000

χ^2/NDF : 1969872407.1/30

Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Right: 14.571+/-0.000

χ^2/NDF : 3499860433.0/57

In: 15.336+/-0.000

χ^2/NDF : 4415646579.9/49

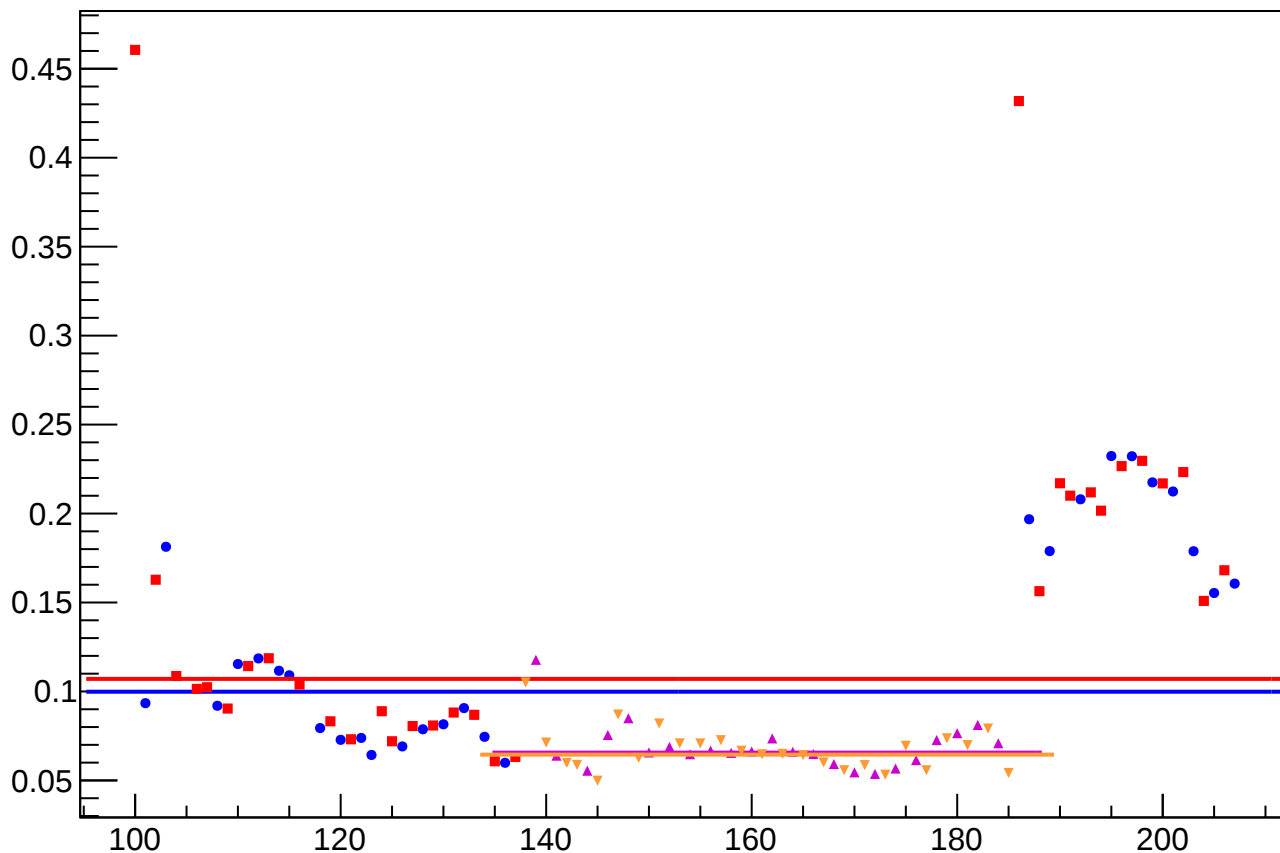
Out: 15.340+/-0.000

χ^2/NDF : 5144642758.1/55

All: 15.338+/-0.000

χ^2/NDF : 9560327835.1/131

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.100 $\pm$ 0.000 χ^2 /NDF: 4801543.9/26

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.107 $\pm$ 0.000 χ^2 /NDF: 4978081.2/30

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

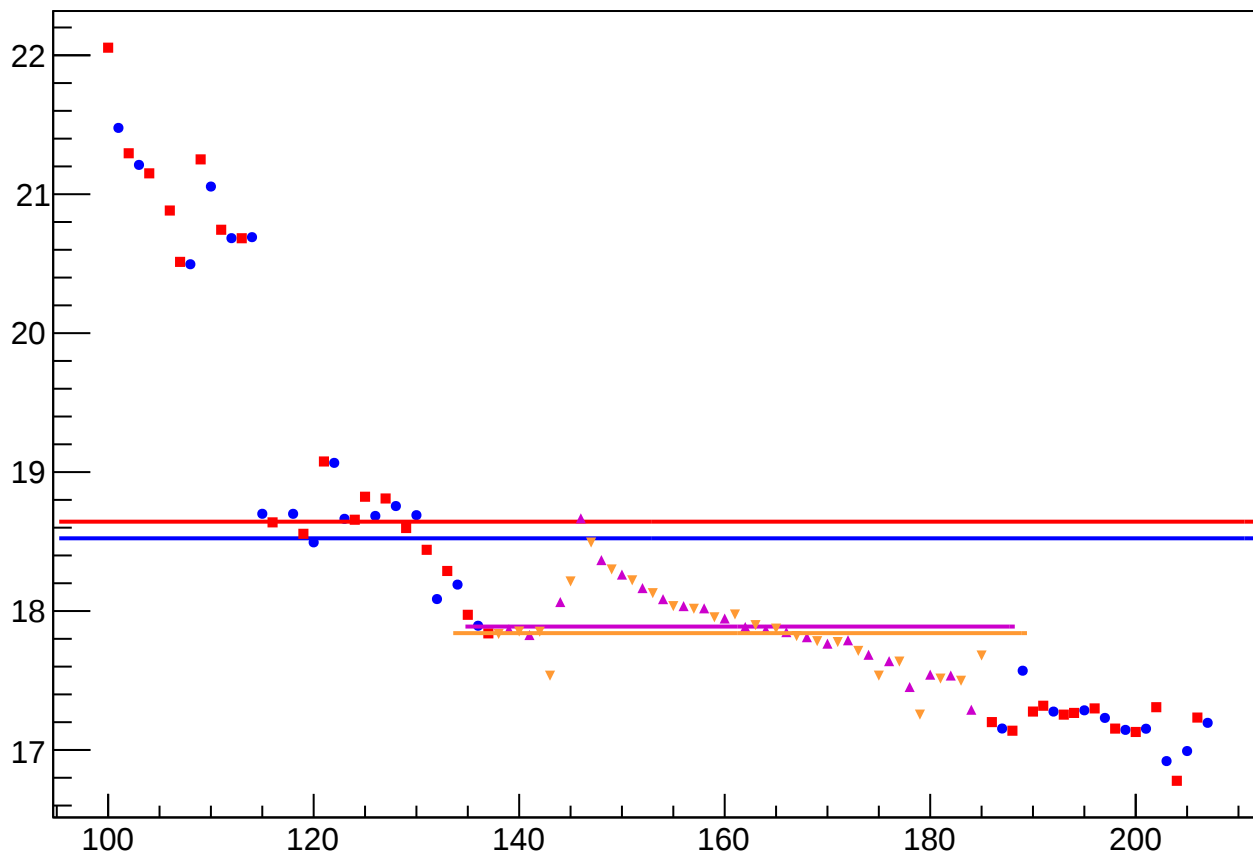
Right: 0.103 $\pm$ 0.000 χ^2 /NDF: 9833008.6/57

In: 0.074 $\pm$ 0.000 χ^2 /NDF: 7394403.4/49

Out: 0.073 $\pm$ 0.000 χ^2 /NDF: 8613668.7/55

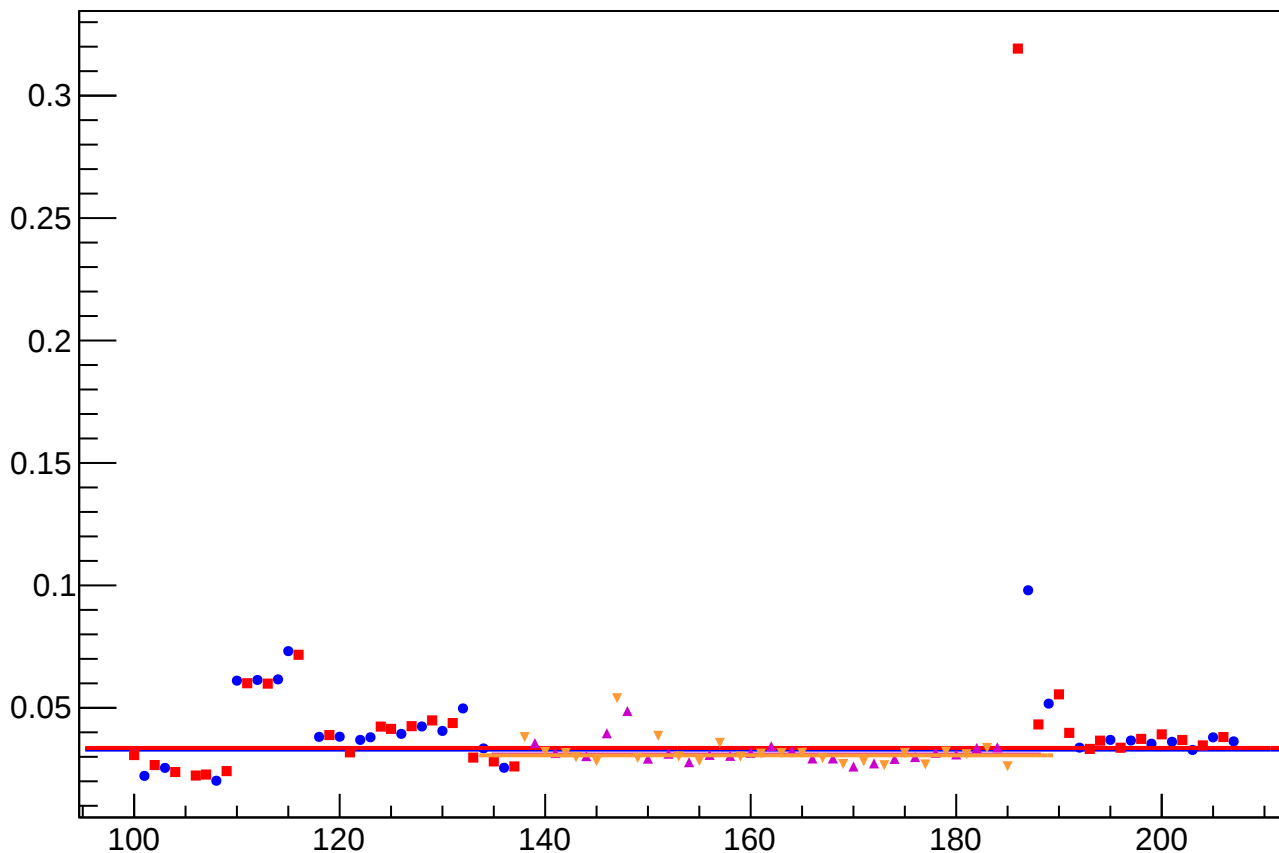
All: 0.074 $\pm$ 0.000 χ^2 /NDF: 16008156.8/105

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.523+/-0.000	χ^2/NDF : 30148095659.4/26	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.584+/-0.000	χ^2/NDF : 62504019924.4/57
Right Out: 18.643+/-0.000	χ^2/NDF : 32273974031.9/30	In: 18.138+/-0.000	χ^2/NDF : 34108420684.3/49
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.149+/-0.000	χ^2/NDF : 38155620328.8/55
		All: 18.144+/-0.000	χ^2/NDF : 72265593478.7

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2 /NDF: 1735502.1/26

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.034 $\pm$ 0.000 χ^2 /NDF: 2158724.6/30

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

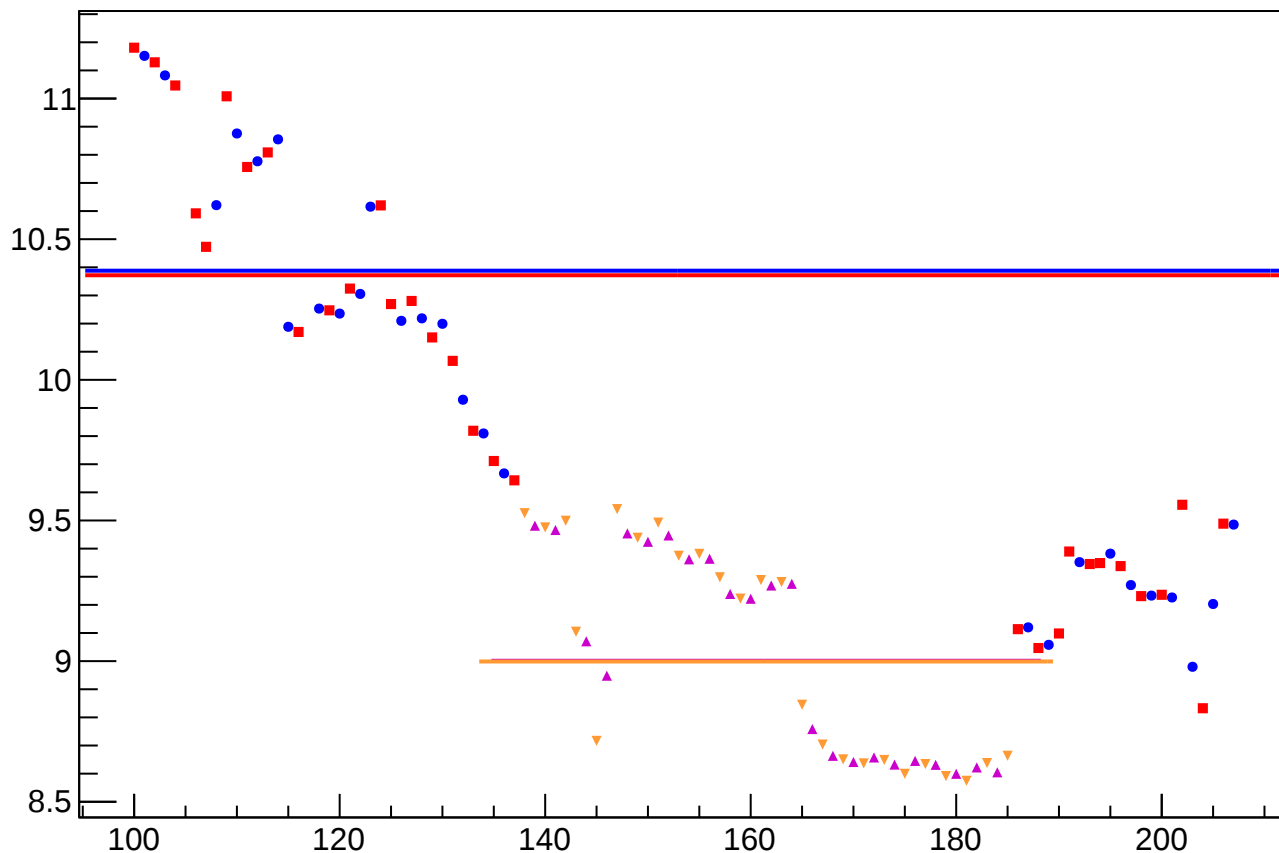
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3899468.3/57

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2246378.0/49

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2879505.0/55

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5125980.1/105

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.388+/-0.000 χ^2/NDF : 14238597324.4/26

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.372+/-0.000 χ^2/NDF : 12838773266.1/30

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

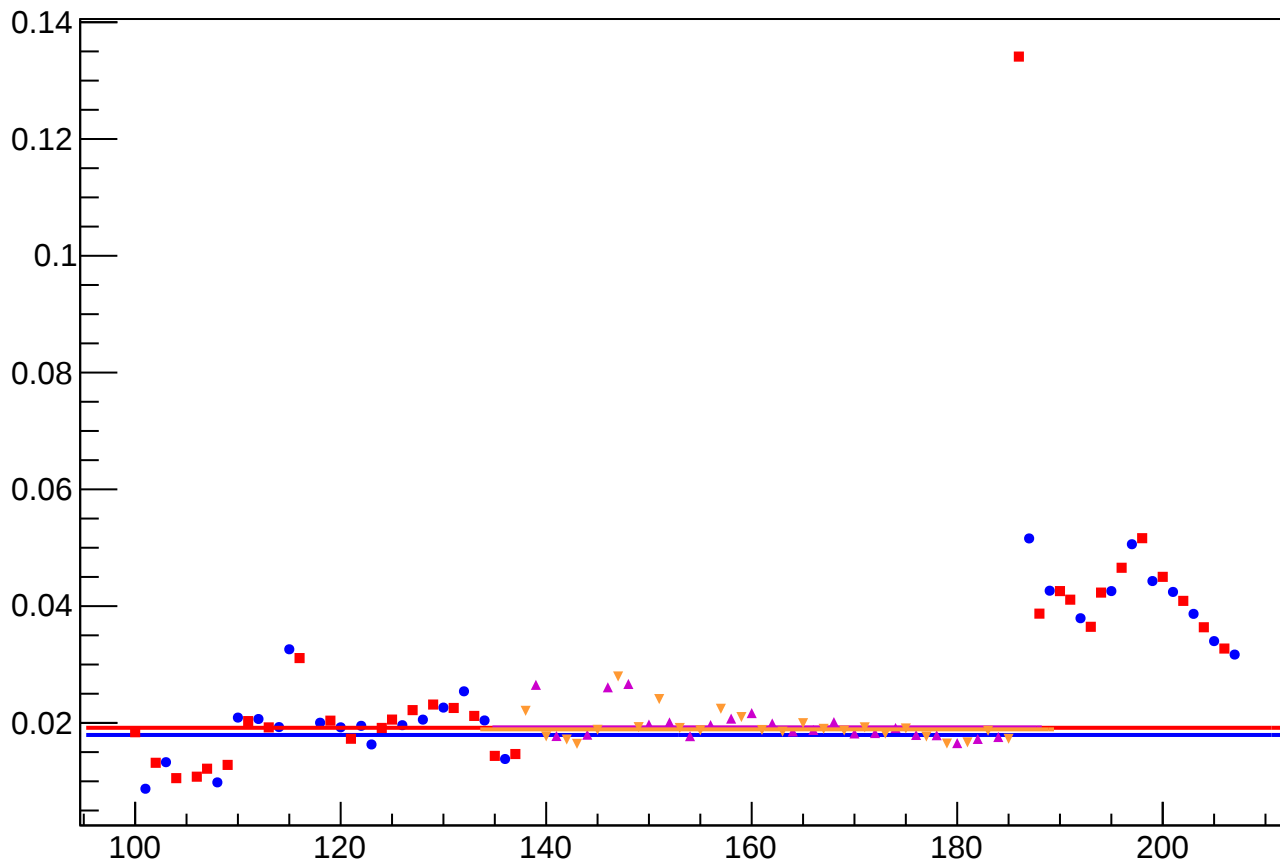
Right: 10.380+/-0.000 χ^2/NDF : 27081335044.3/57

In: 9.579+/-0.000 χ^2/NDF : 53826971625.1/49

Out: 9.533+/-0.000 χ^2/NDF : 53671345071.2/55

All: 9.555+/-0.000 χ^2/NDF : 107577621806.2

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 6363716.9/26

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.019+/-0.000 χ^2/NDF : 6506060.7/30

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

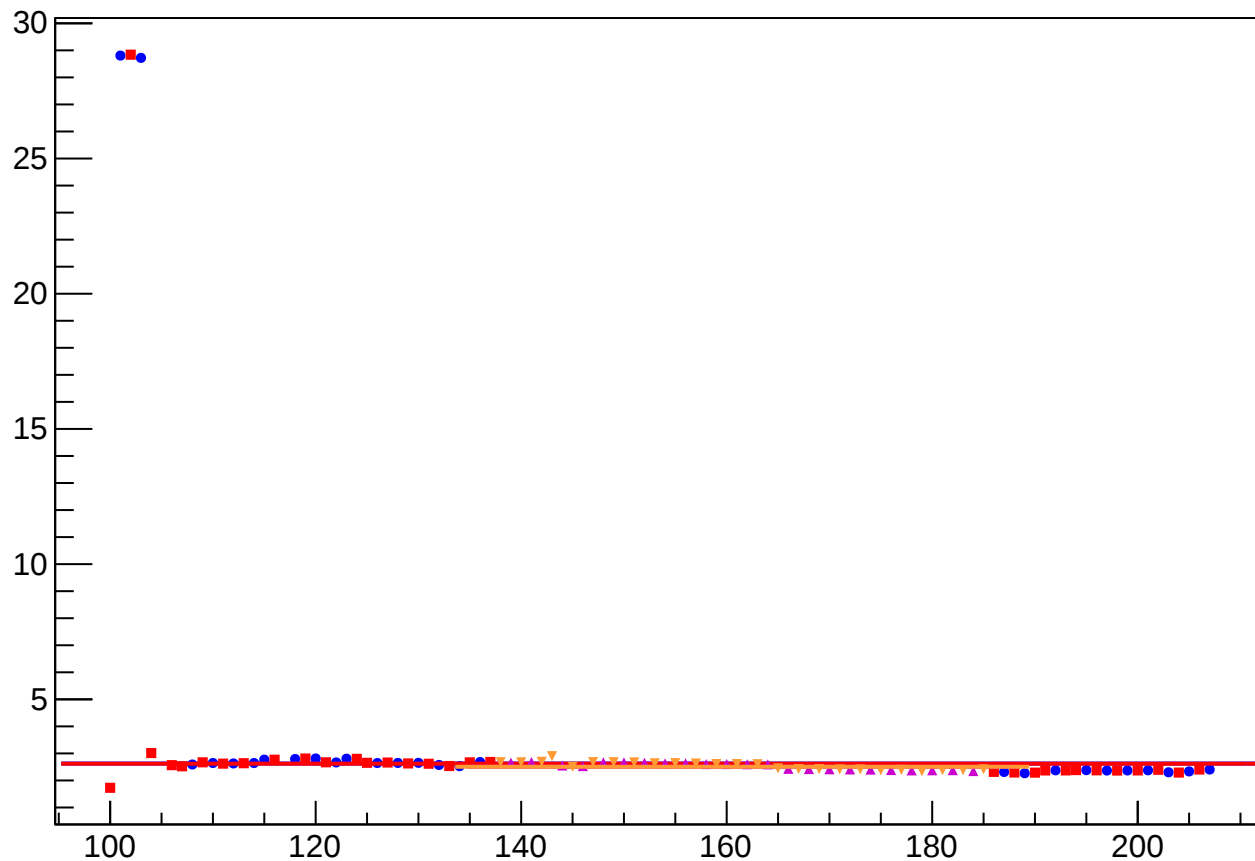
Right: 0.019+/-0.000 χ^2/NDF : 12915415.9/57

In: 0.019+/-0.000 χ^2/NDF :6904732.5/49

Out: 0.019+/-0.000 χ^2/NDF :6936855.0/55

All: 0.019+/-0.000 χ^2/NDF : 13848949.4/105

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.626 $\pm$ 0.000 χ^2 /NDF: 179350950768.2/26

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.620 $\pm$ 0.000 χ^2 /NDF: 88733184501.7/30

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

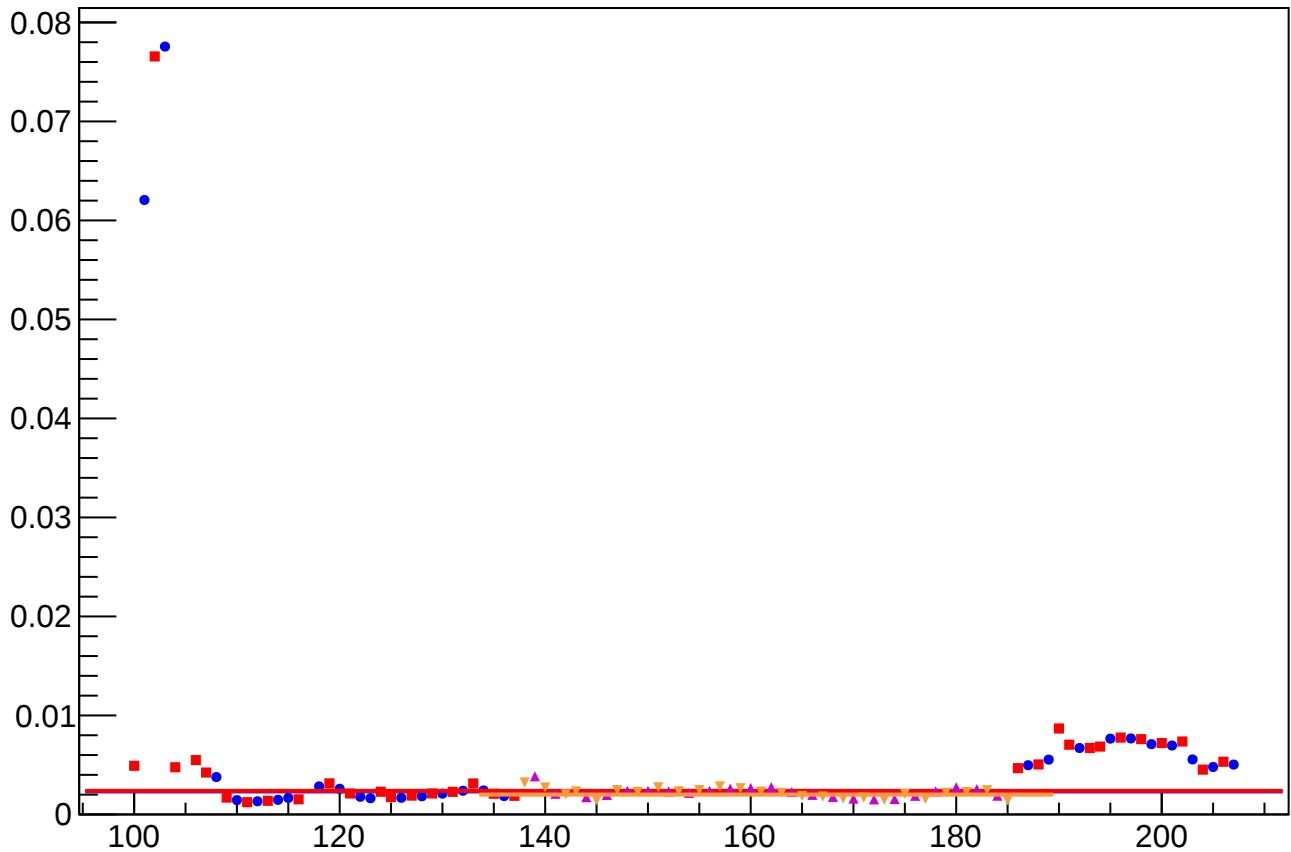
Right: 2.623 $\pm$ 0.000 χ^2 /NDF: 268107012373.5/57

In: 2.544 $\pm$ 0.000 χ^2 /NDF: 237450604915.9/49

Out: 2.542 $\pm$ 0.000 χ^2 /NDF: 167527015122.7/55

All: 2.543 $\pm$ 0.000 χ^2 /NDF: 404987525562.2

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8801394.3/26

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9170240.7/30

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

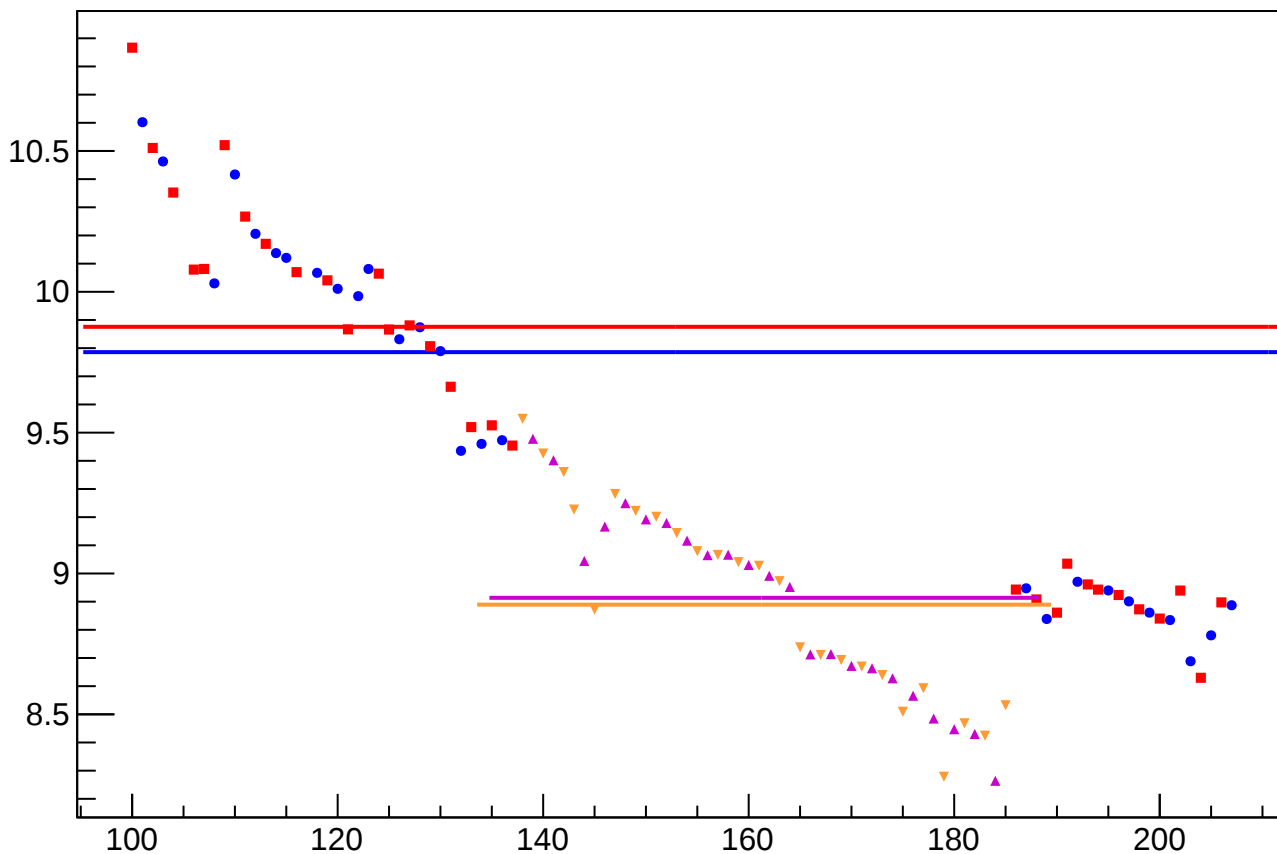
Right: 0.002+/-0.000 χ^2/NDF : 17976042.1/57

In: 0.002+/-0.000 χ^2/NDF :10255780.4/49

Out: 0.002+/-0.000 χ^2/NDF :10952969.6/55

All: 0.002+/-0.000 χ^2/NDF : 21211407.9/105

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.786 $\pm$ 0.000

χ^2 /NDF: 60779007682.0/26

Left: 8.901 $\pm$ 0.000

χ^2 /NDF: 63312247922.6/47

Left Out: 8.889 $\pm$ 0.000

χ^2 /NDF: 34704694045.9/24

Right: 9.832 $\pm$ 0.000

χ^2 /NDF: 123971610439.3/57

Right Out: 9.876 $\pm$ 0.000

χ^2 /NDF: 62281741855.9/30

In: 9.252 $\pm$ 0.000

χ^2 /NDF: 192026793815.0/49

Out: 9.248 $\pm$ 0.000

χ^2 /NDF: 239427939629.2/55

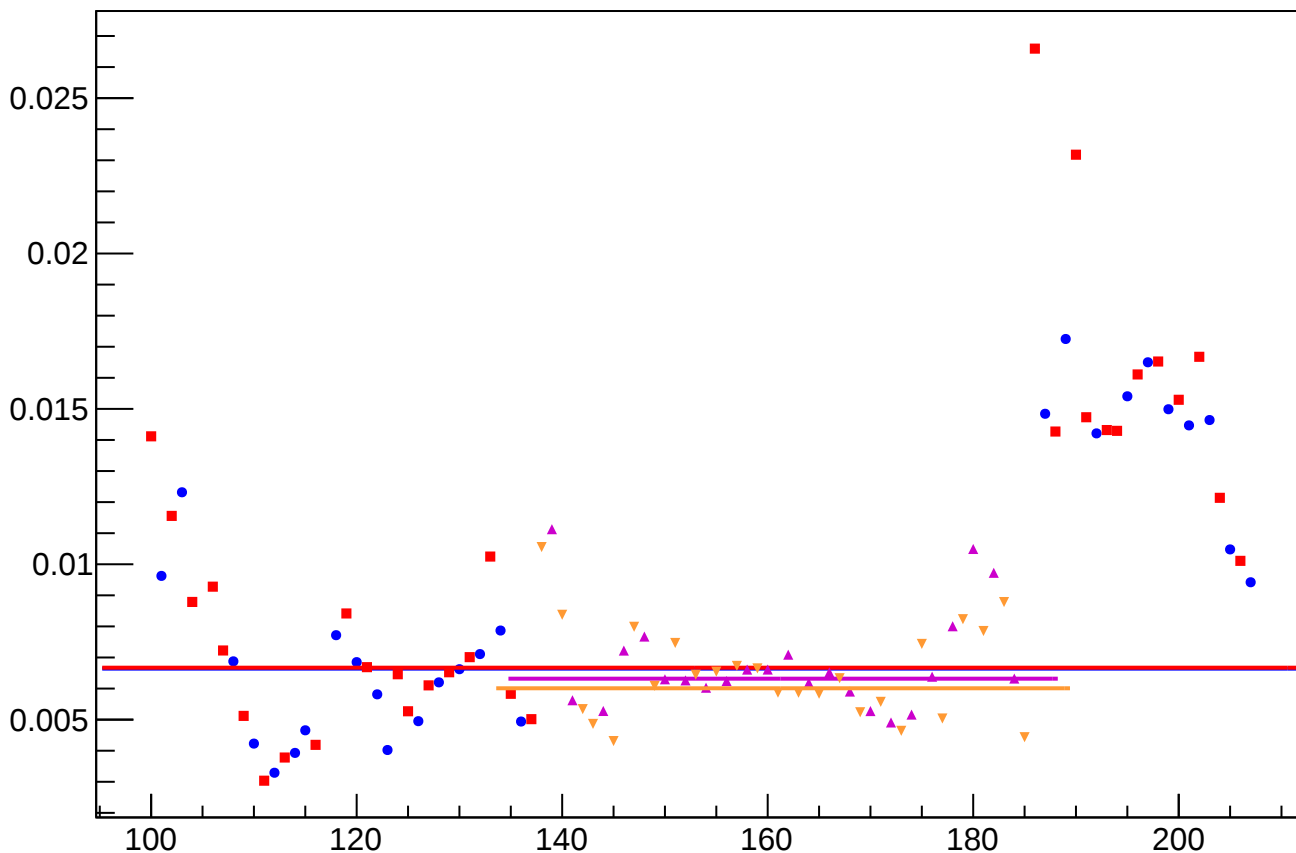
Left In: 8.914 $\pm$ 0.000

χ^2 /NDF: 28497227562.7/22

All: 9.250 $\pm$ 0.000

χ^2 /NDF: 431459589732.0

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5649841.6/26

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7193667.6/30

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

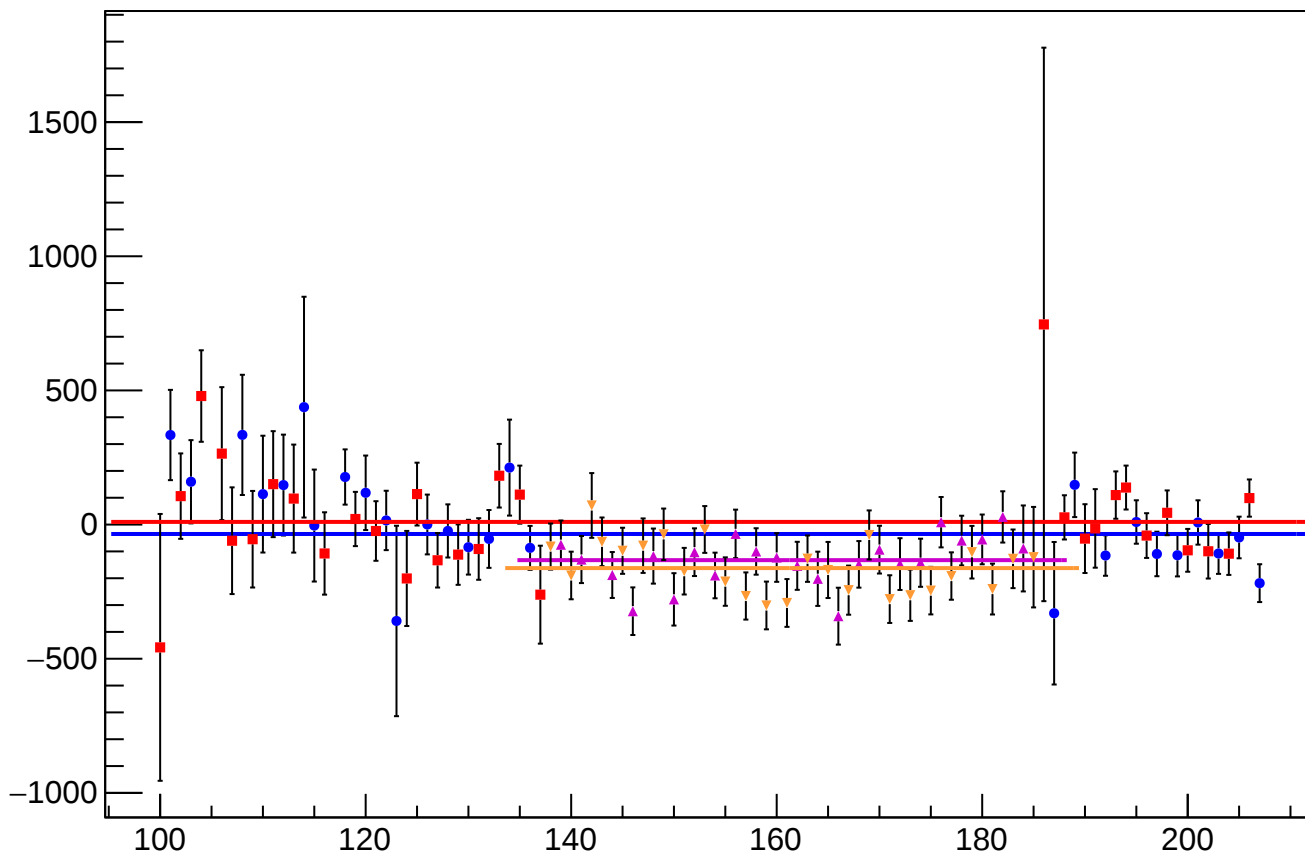
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 12843707.4/57

In: 0.006 $\pm$ 0.000 χ^2 /NDF:6765225.7/49

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8634686.3/55

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 15422392.3/105

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -35.072 ± 20.584 χ^2/NDF : 35.8/26

Left Out: -162.161 ± 18.745 χ^2/NDF : 25.7/24

Right Out: 9.978 ± 20.381 χ^2/NDF : 34.7/30

Left In: -132.557 ± 19.403 χ^2/NDF : 20.7/22

Left: -147.870 ± 13.481 χ^2/NDF : 47.6/47

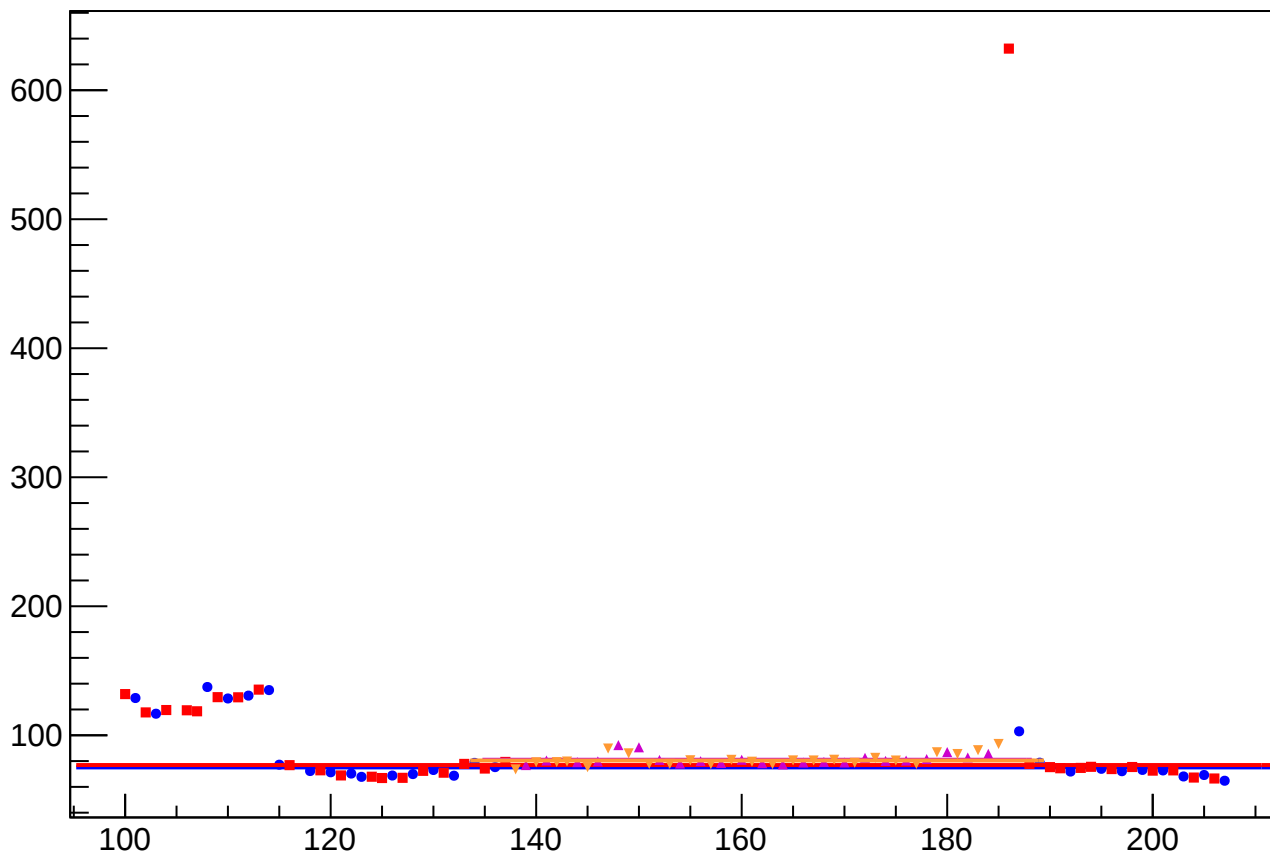
Right: -12.323 ± 14.483 χ^2/NDF : 73.0/57

In: -86.690 ± 14.119 χ^2/NDF : 68.4/49

Out: -83.276 ± 13.797 χ^2/NDF : 99.0/55

All: -84.944 ± 9.868 χ^2/NDF : 167.5/105

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 75.098 $\pm$ 0.015 χ^2 /NDF: 974390.8/26

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 76.926 $\pm$ 0.014 χ^2 /NDF: 1642014.1/30

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

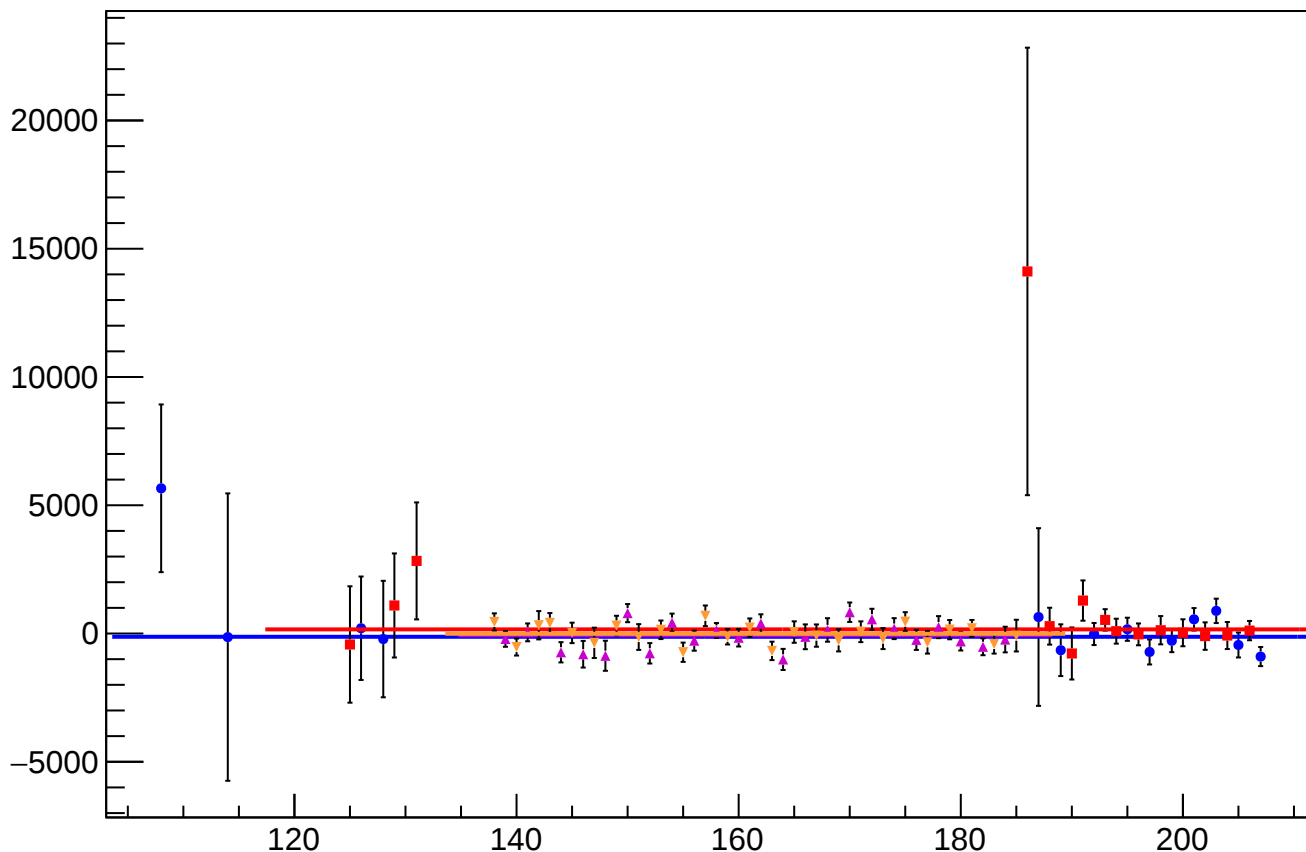
Right: 76.021 $\pm$ 0.010 χ^2 /NDF: 2624369.6/57

In: 78.230 $\pm$ 0.010 χ^2 /NDF: 1134121.5/49

Out: 78.840 $\pm$ 0.010 χ^2 /NDF: 1764515.7/55

All: 78.542 $\pm$ 0.007 χ^2 /NDF: 2900542.9/105

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -126.859+/-153.746 χ^2/NDF : 17.2/13

Left Out: -10.486+/-78.391 χ^2/NDF : 22.5/24

Right Out: 161.463+/-154.855 χ^2/NDF : 8.7/14

Left In: -64.591+/-80.047 χ^2/NDF : 37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

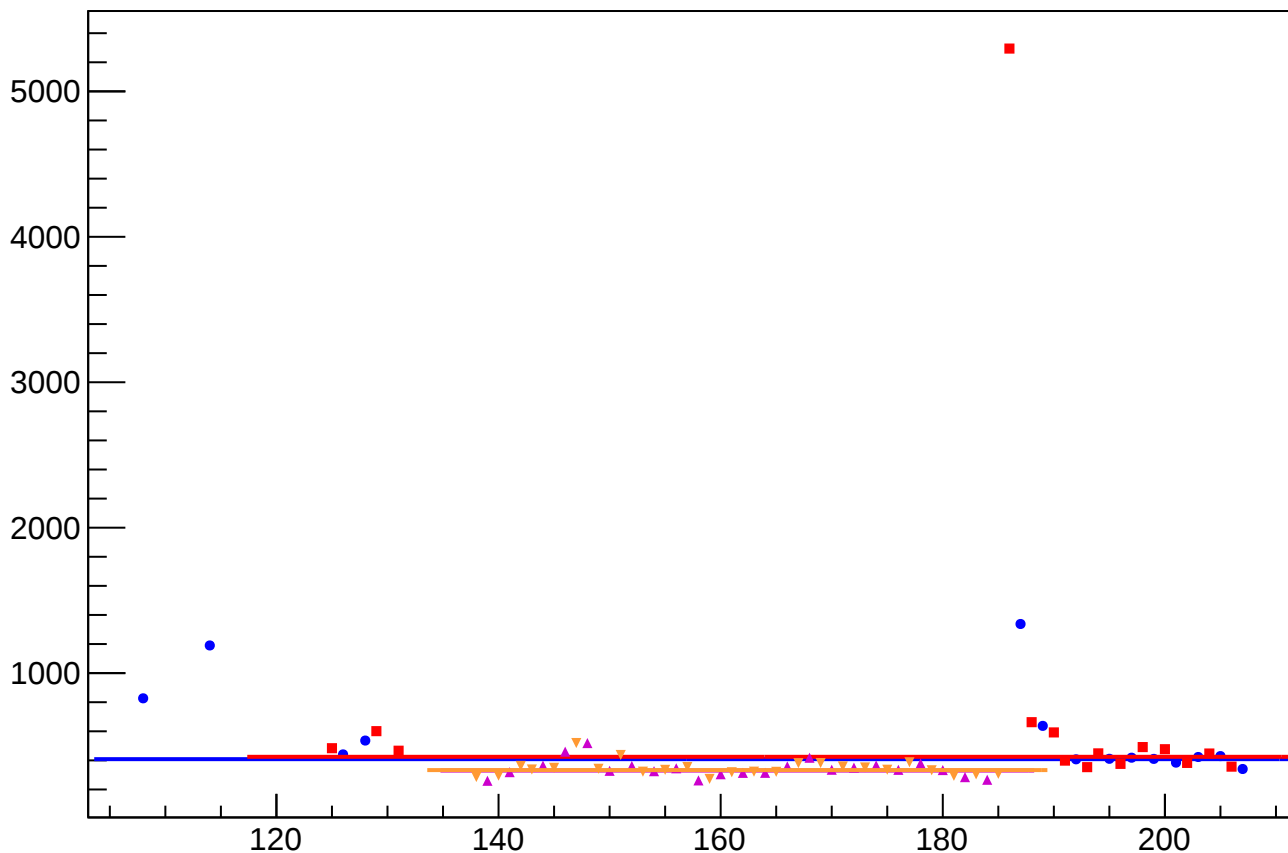
Right: 16.265+/-109.105 χ^2/NDF : 27.6/28

In: -77.870+/-71.000 χ^2/NDF : 54.7/36

Out: 24.589+/-69.940 χ^2/NDF : 32.2/39

All: -25.870+/-49.826 χ^2/NDF : 88.0/76

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 408.480+/-0.109 χ^2/NDF : 404198.1/13

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 424.630+/-0.109 χ^2/NDF : 1134947.4/14

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

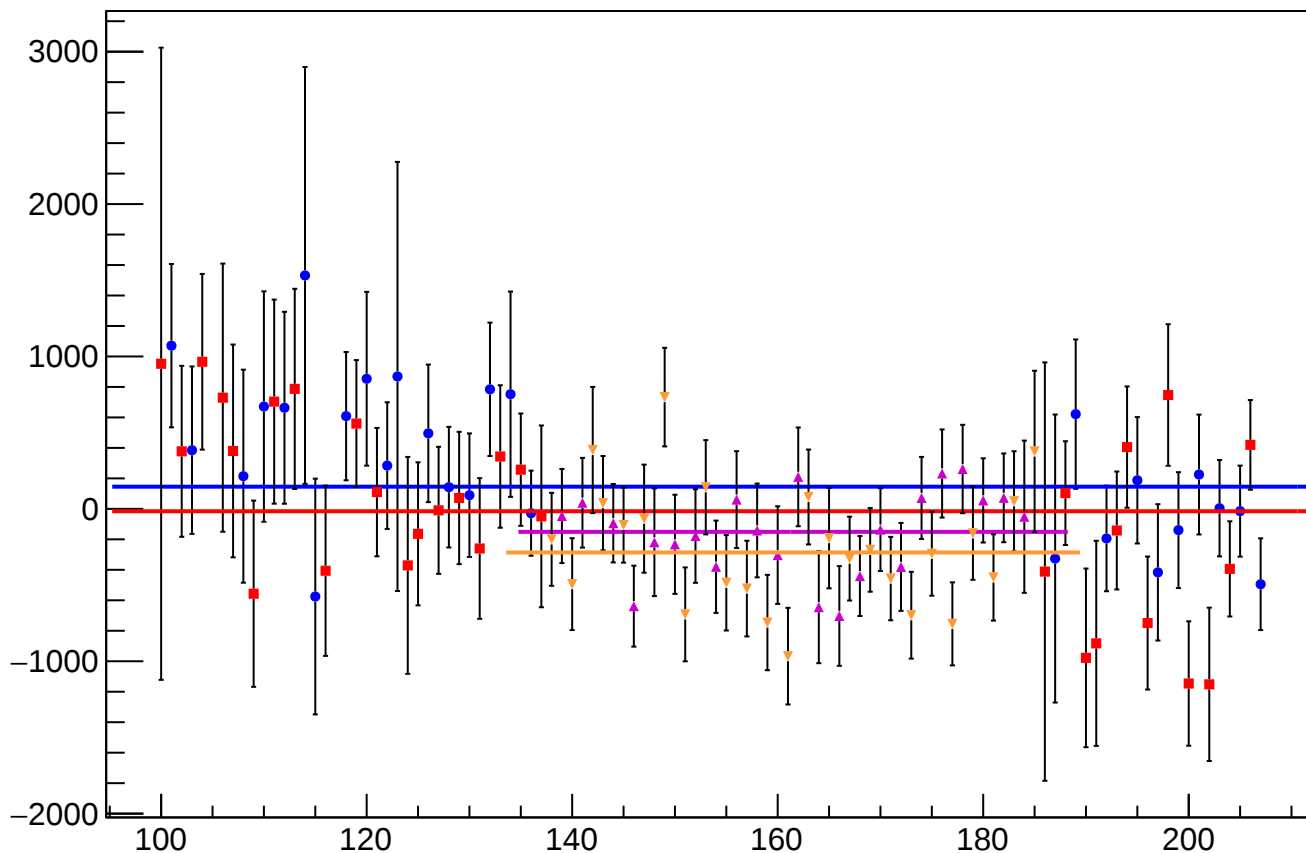
Right: 416.497+/-0.077 χ^2/NDF : 1550100.5/28

In: 346.725+/-0.050 χ^2/NDF : 1610303.6/36

Out: 351.877+/-0.049 χ^2/NDF : 2281644.7/39

All: 349.340+/-0.035 χ^2/NDF : 3897292.5/76

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 145.518 ± 85.112 χ^2/NDF : 22.7/26

Left Out: -286.030 ± 61.095 χ^2/NDF : 36.6/24

Right Out: -15.679 ± 85.271 χ^2/NDF : 40.1/30

Left In: -150.920 ± 62.818 χ^2/NDF : 18.7/22

Left: -220.353 ± 43.797 χ^2/NDF : 57.6/47

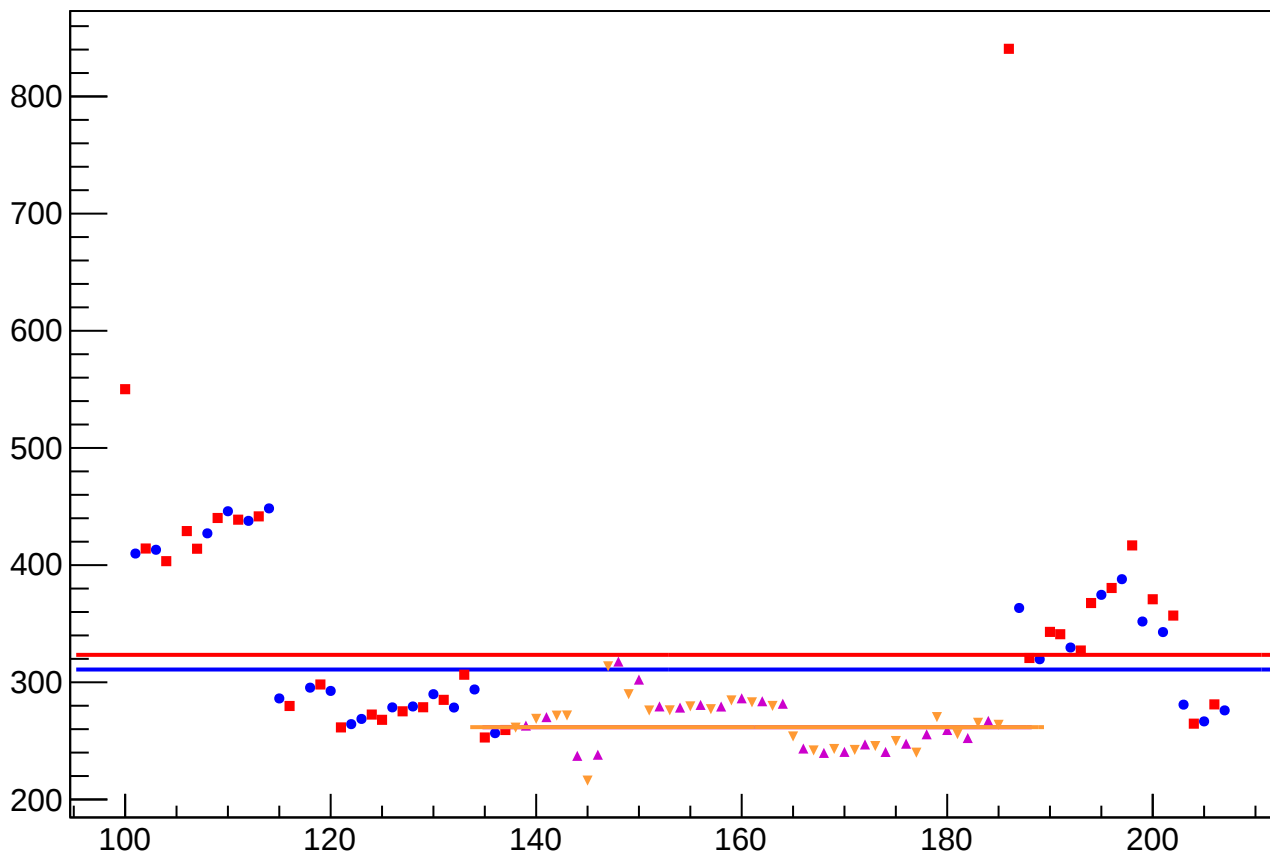
Right: 65.069 ± 60.240 χ^2/NDF : 64.6/57

In: -46.385 ± 50.542 χ^2/NDF : 49.2/49

Out: -194.325 ± 49.663 χ^2/NDF : 83.3/55

All: -121.653 ± 35.424 χ^2/NDF : 136.9/105

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 310.905 $\pm$ 0.060 χ^2 /NDF: 752639.6/26

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF: 233222.6/24

Right Out: 323.423 $\pm$ 0.060 χ^2 /NDF: 1211814.9/30

Left In: 261.637 $\pm$ 0.044 χ^2 /NDF: 228241.3/22

Left: 261.680 $\pm$ 0.031 χ^2 /NDF: 461465.7/47

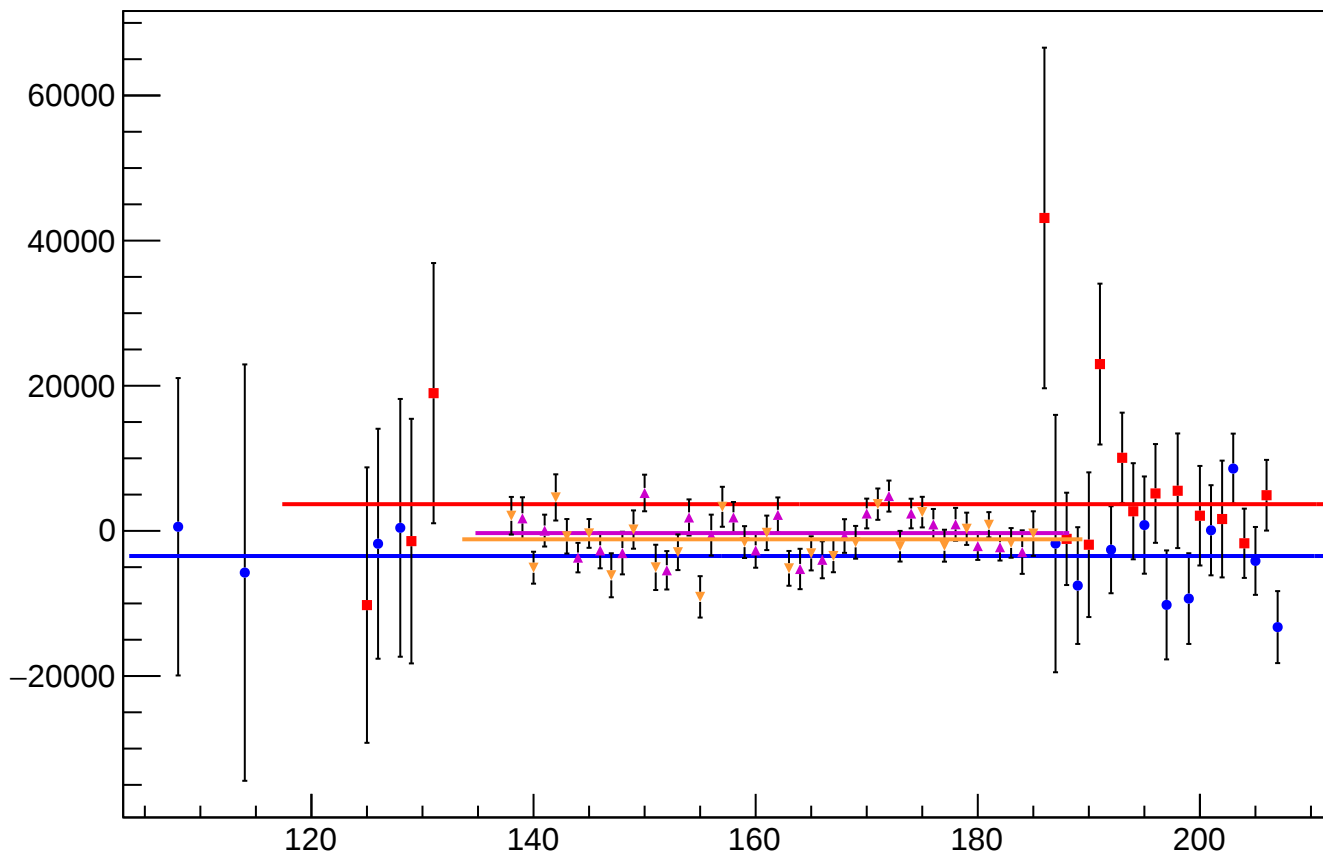
Right: 317.152 $\pm$ 0.043 χ^2 /NDF: 1986046.4/57

In: 279.010 $\pm$ 0.036 χ^2 /NDF: 1414719.6/49

Out: 282.651 $\pm$ 0.035 χ^2 /NDF: 2137000.2/55

All: 280.863 $\pm$ 0.025 χ^2 /NDF: 3557000.1/105

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3463.453+/-1895.993 χ^2/NDF : 13.0/13

Left Out: -1161.443+/-469.036 χ^2/NDF :38.8/24

Right Out: 3680.224+/-1949.484 χ^2/NDF : 10.7/14

Left In: -304.366+/-483.778 χ^2/NDF :35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

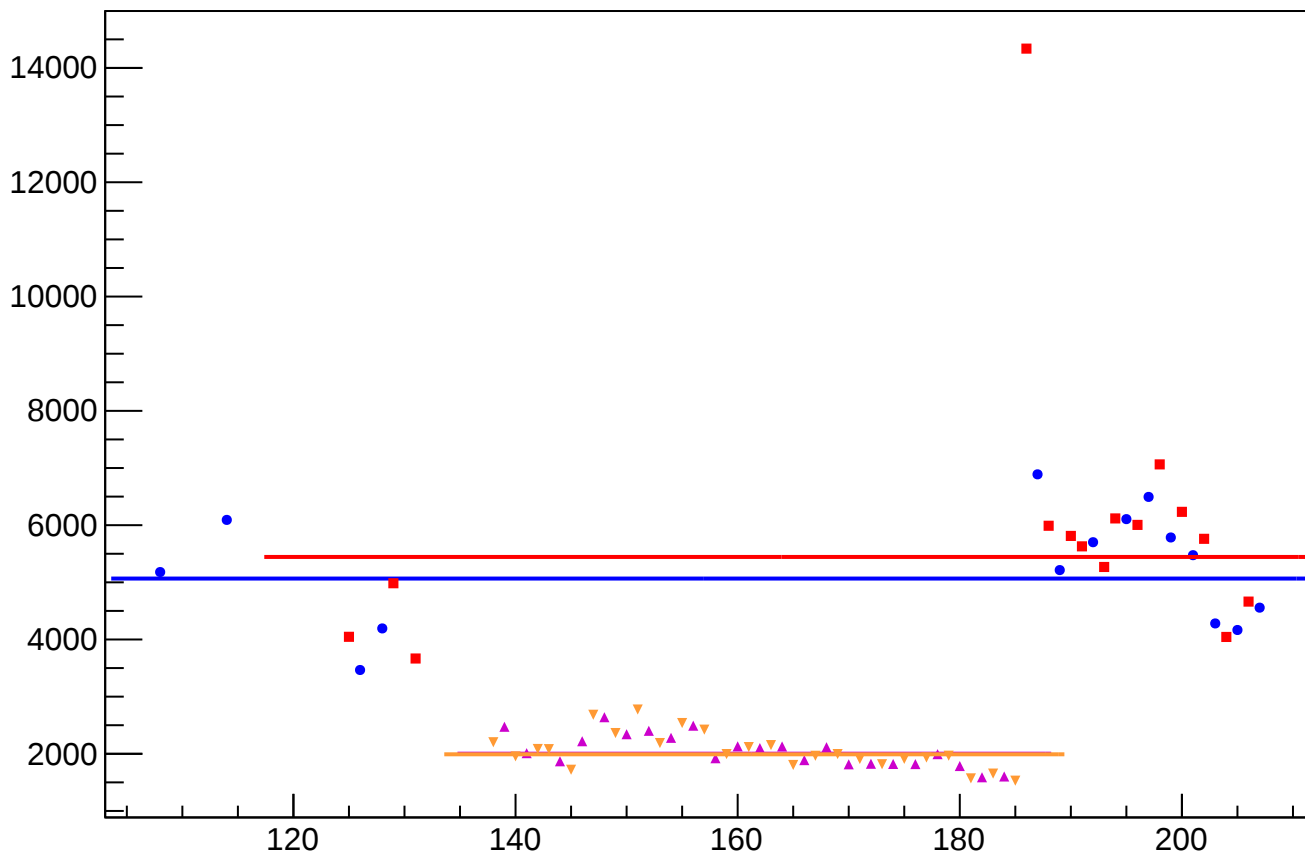
Right: 9.036+/-1359.187 χ^2/NDF : 30.6/28

In: -497.469+/-468.759 χ^2/NDF :51.0/36

Out: -896.513+/-456.023 χ^2/NDF :55.3/39

All: -702.486+/-326.867 χ^2/NDF : 106.6/76

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5066.096 $\pm$ 1.341 χ^2 /NDF: 376092.7/13

Left Out: 1991.105 $\pm$ 0.332 χ^2 /NDF: 726310.6/24

Right Out: 5444.216 $\pm$ 1.378 χ^2 /NDF: 710213.7/14

Left In: 2002.154 $\pm$ 0.342 χ^2 /NDF: 585947.4/22

Left: 1996.458 $\pm$ 0.238 χ^2 /NDF: 1312795.7/47

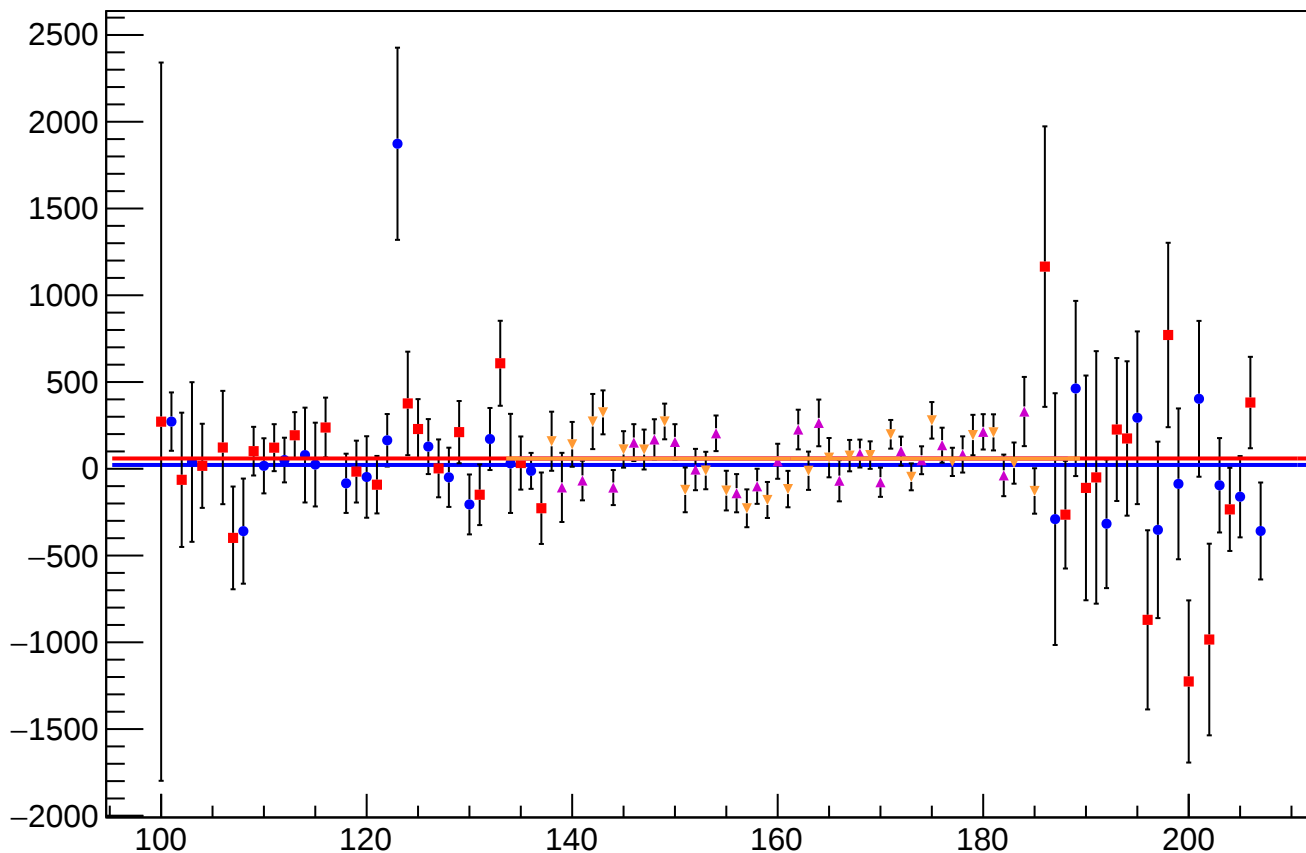
Right: 5249.897 $\pm$ 0.961 χ^2 /NDF: 1124973.0/28

In: 2189.441 $\pm$ 0.331 χ^2 /NDF: 5865751.8/36

Out: 2180.054 $\pm$ 0.322 χ^2 /NDF: 7368142.2/39

All: 2184.618 $\pm$ 0.231 χ^2 /NDF: 13234306.0/77

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 22.108 $\pm$ 40.788 χ^2/NDF : 25.6/26

Left Out: 58.983 $\pm$ 21.137 χ^2/NDF : 46.9/24

Right Out: 59.416 $\pm$ 40.500 χ^2/NDF : 39.8/30

Left In: 59.235 $\pm$ 21.921 χ^2/NDF : 29.4/22

Left: 59.104 $\pm$ 15.216 χ^2/NDF : 76.3/47

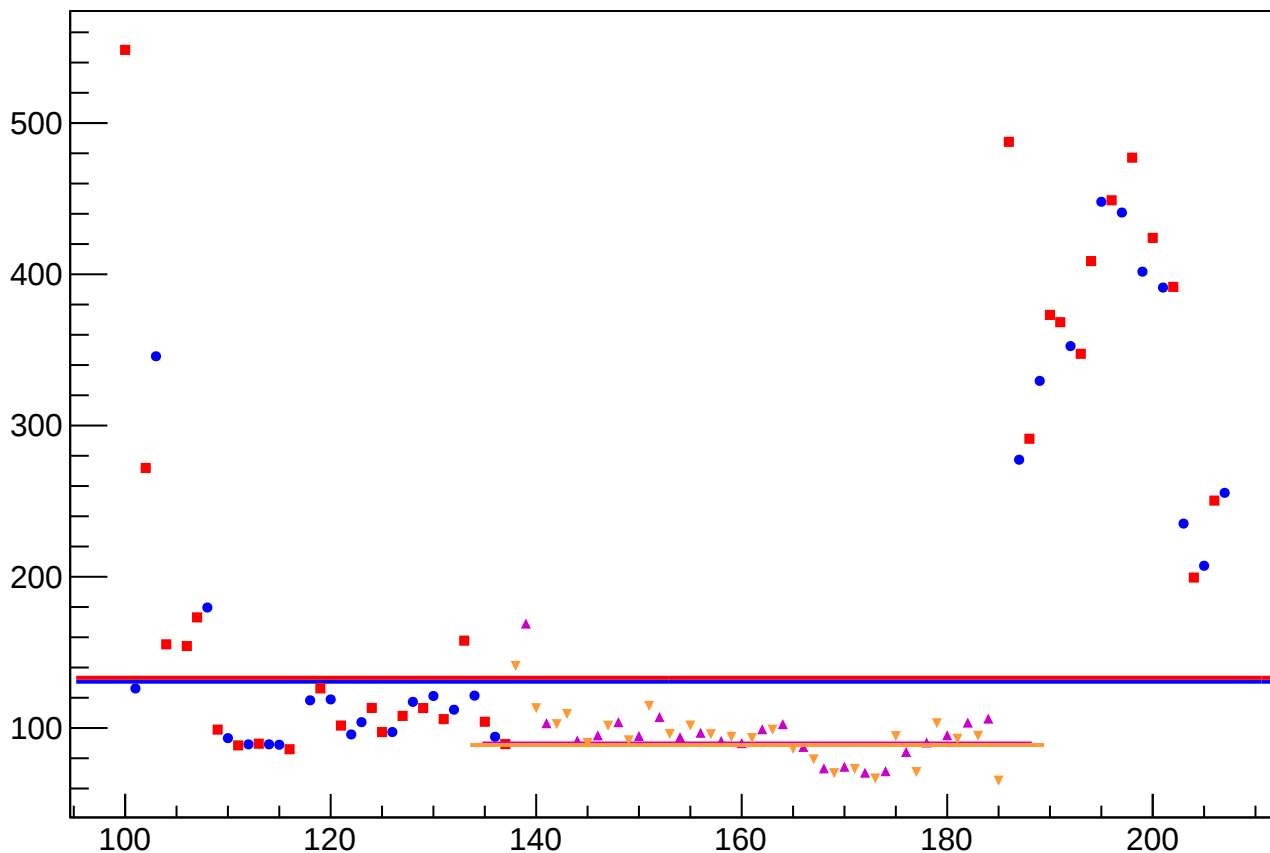
Right: 40.894 $\pm$ 28.739 χ^2/NDF : 65.8/57

In: 50.914 $\pm$ 19.309 χ^2/NDF : 55.7/49

Out: 59.075 $\pm$ 18.739 χ^2/NDF : 86.7/55

All: 55.117 $\pm$ 13.447 χ^2/NDF : 142.4/105

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 130.629 $\pm$ 0.029 χ^2 /NDF: 6444857.2/26

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 133.239 $\pm$ 0.029 χ^2 /NDF: 7616186.2/30

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

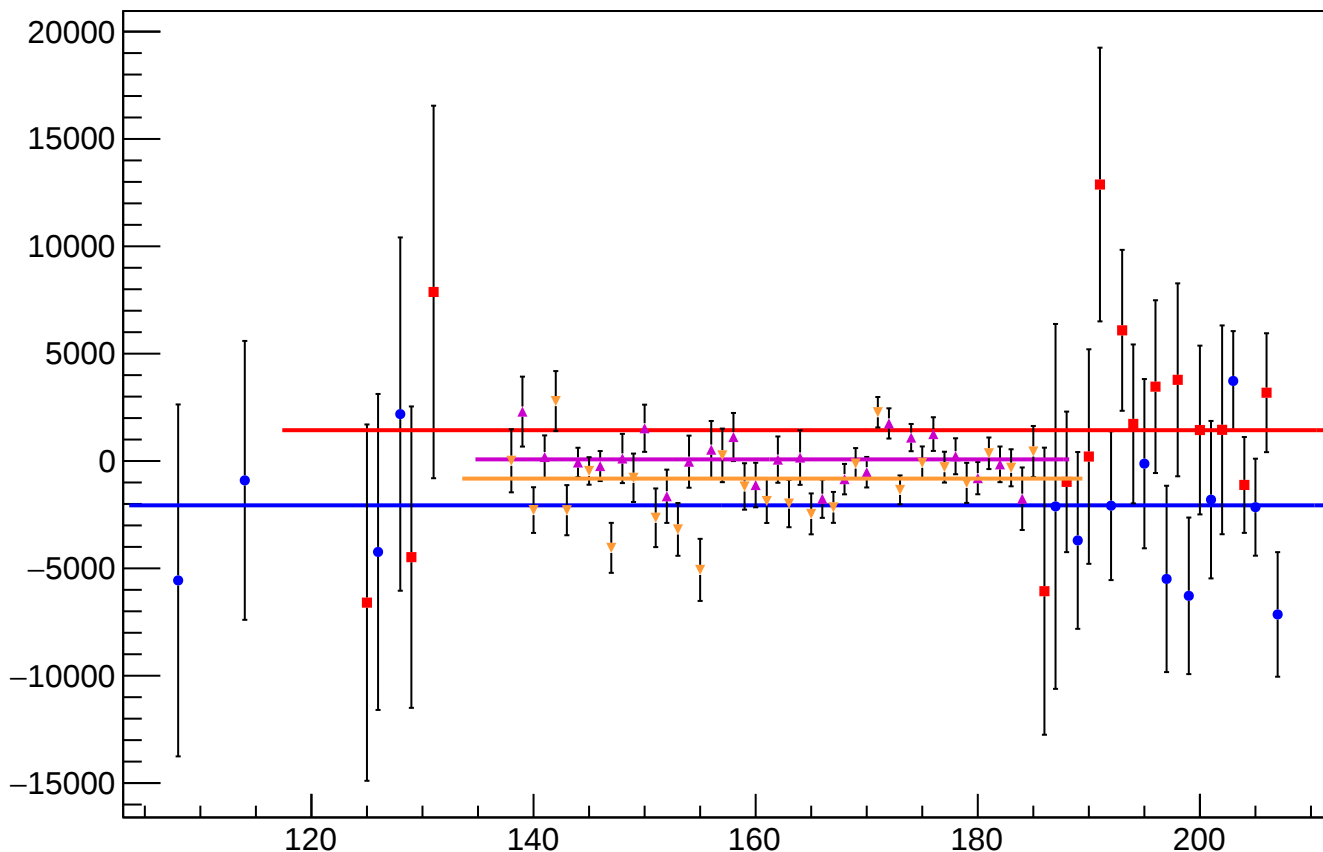
Right: 131.943 $\pm$ 0.020 χ^2 /NDF: 14065167.1/57

In: 98.923 $\pm$ 0.014 χ^2 /NDF:8888166.1/49

Out: 98.273 $\pm$ 0.013 χ^2 /NDF:10592402.6/55

All: 98.588 $\pm$ 0.010 χ^2 /NDF: 19481738.9/105

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2064.459 ± 1002.342 $\chi^2/\text{NDF}: 12.2/13$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 1435.441 ± 1041.344 $\chi^2/\text{NDF}: 11.1/14$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

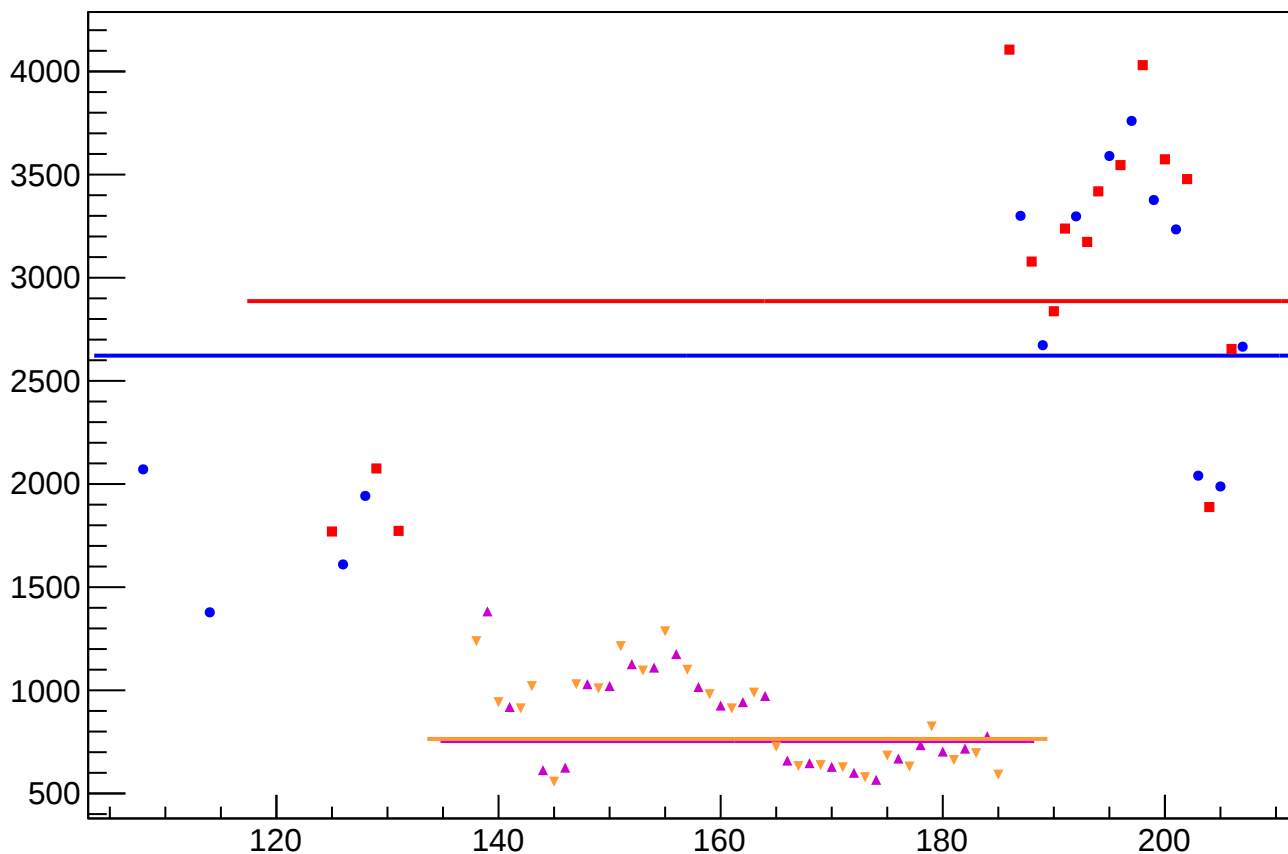
Right: -381.278 ± 722.158 $\chi^2/\text{NDF}: 29.2/28$

In: 4.462 ± 183.496 $\chi^2/\text{NDF}: 44.9/36$

Out: -750.291 ± 181.636 $\chi^2/\text{NDF}: 83.8/39$

All: -376.760 ± 129.089 $\chi^2/\text{NDF}: 137.3/76$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2622.346 $\pm$ 0.709 χ^2 /NDF: 906071.3/13

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2886.633 $\pm$ 0.736 χ^2 /NDF: 916678.4/14

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

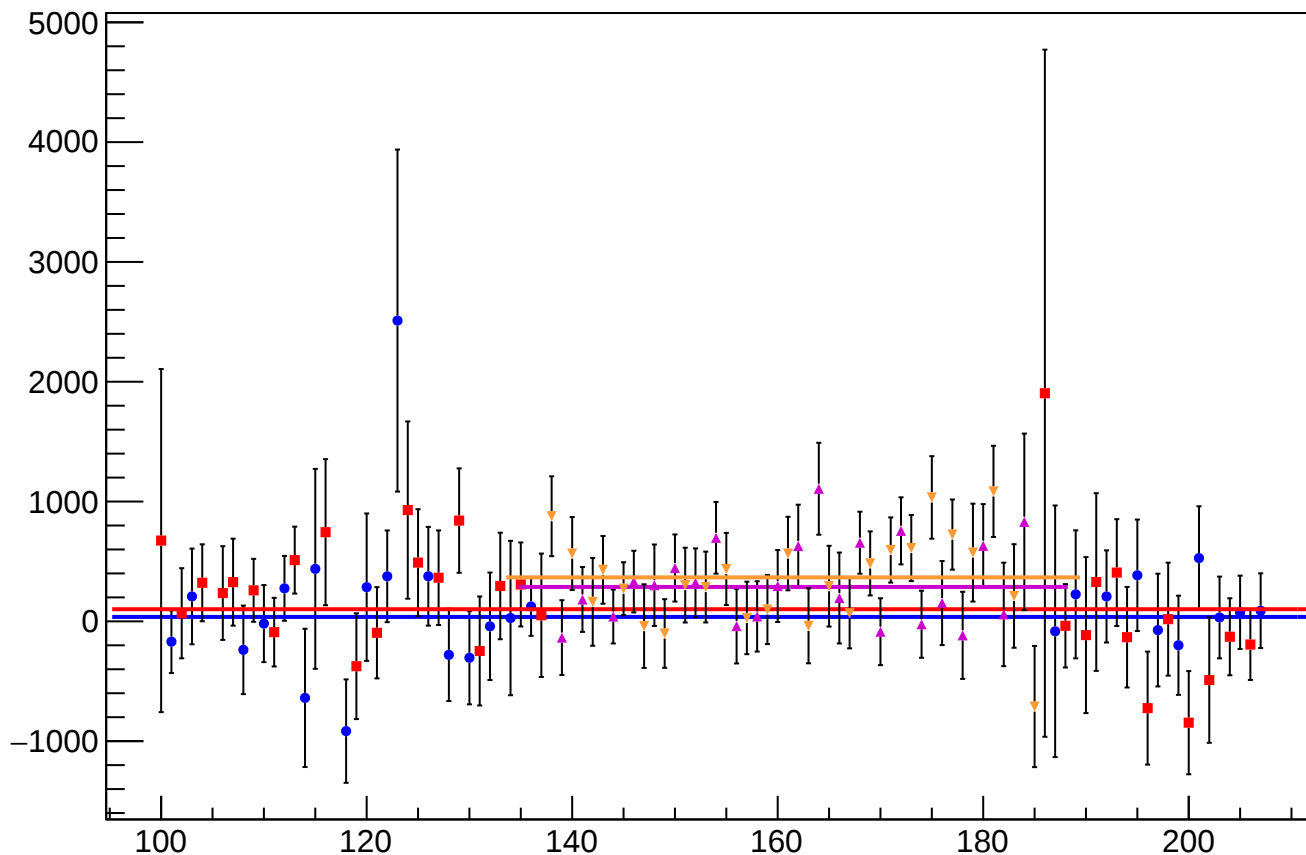
Right: 2749.447 $\pm$ 0.511 χ^2 /NDF: 1889618.8/28

In: 816.641 $\pm$ 0.130 χ^2 /NDF: 9635228.5/36

Out: 828.850 $\pm$ 0.128 χ^2 /NDF: 11287534.8/39

All: 822.808 $\pm$ 0.091 χ^2 /NDF: 20927235.3/76

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 36.924 $\pm$ 75.478 χ^2/NDF : 17.5/26

Left Out: 367.028 $\pm$ 61.943 χ^2/NDF : 28.2/24

Right Out: 101.230 $\pm$ 72.856 χ^2/NDF : 25.4/30

Left In: 287.246 $\pm$ 64.141 χ^2/NDF : 23.9/22

Left: 328.527 $\pm$ 44.557 χ^2/NDF : 52.9/47

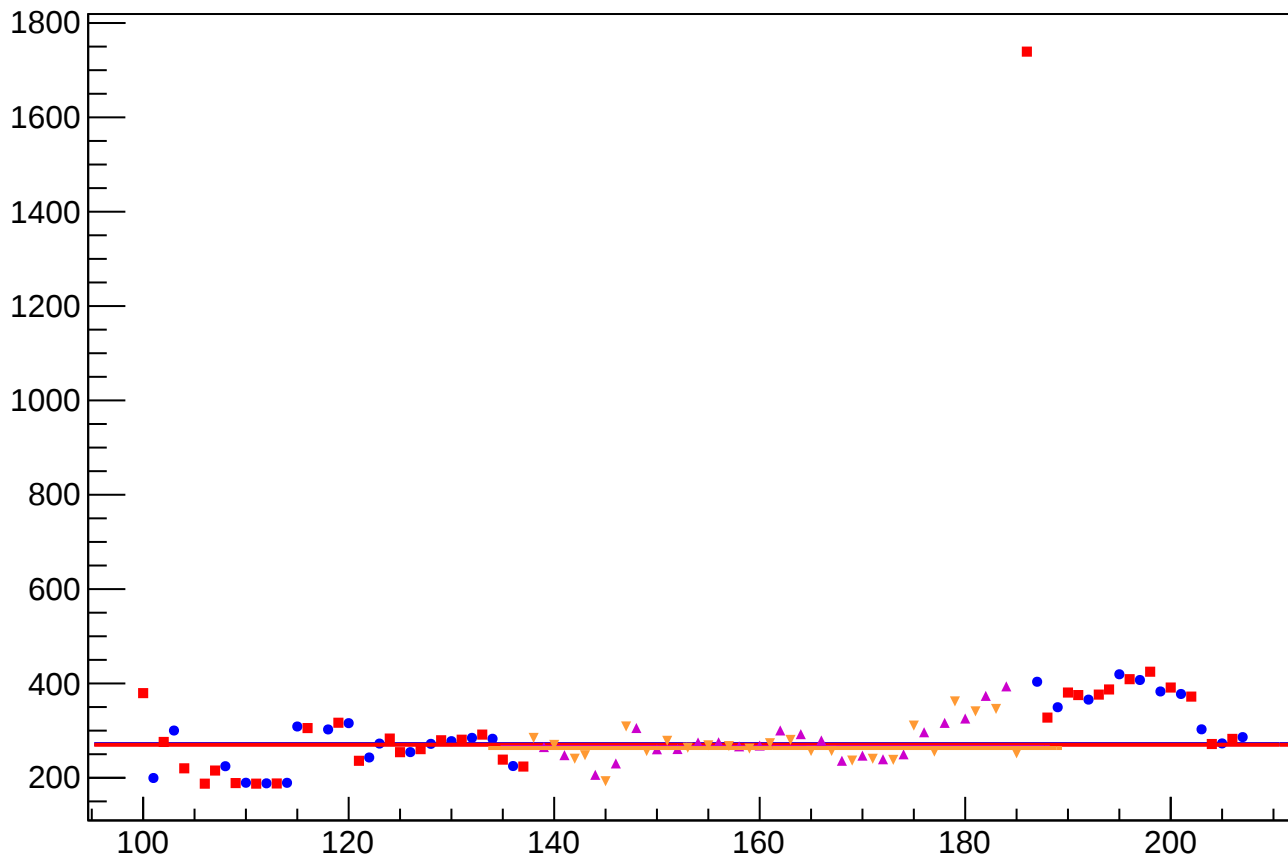
Right: 70.213 $\pm$ 52.419 χ^2/NDF : 43.2/57

In: 182.279 $\pm$ 48.876 χ^2/NDF : 47.8/49

Out: 255.506 $\pm$ 47.192 χ^2/NDF : 61.3/55

All: 220.176 $\pm$ 33.950 χ^2/NDF : 110.3/105

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.524 $\pm$ 0.053 χ^2 /NDF: 1517268.3/26

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 270.072 $\pm$ 0.052 χ^2 /NDF: 2388440.7/30

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

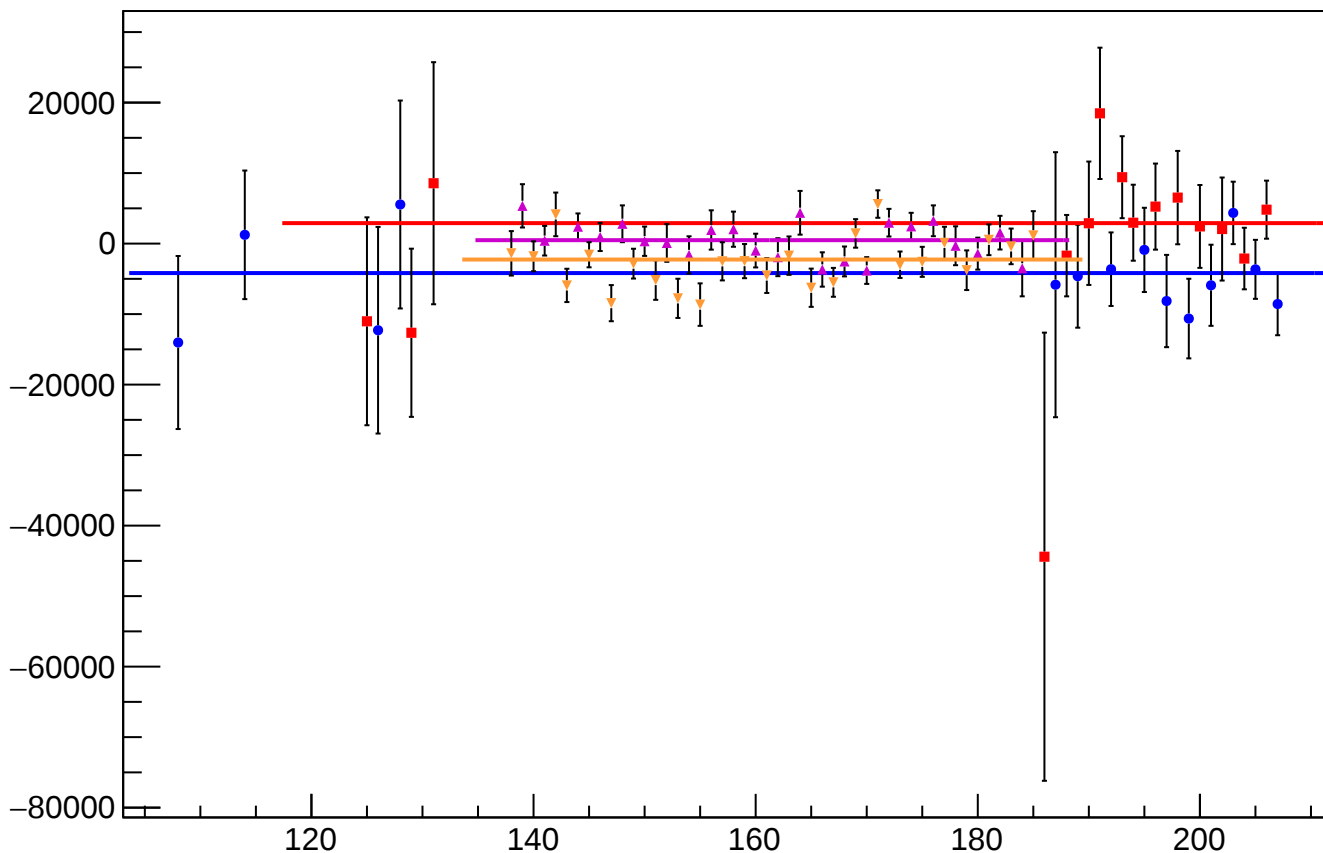
Right: 270.772 $\pm$ 0.037 χ^2 /NDF: 3906092.2/57

In: 267.691 $\pm$ 0.035 χ^2 /NDF: 2135175.2/49

Out: 266.027 $\pm$ 0.033 χ^2 /NDF: 3041287.4/55

All: 266.830 $\pm$ 0.024 χ^2 /NDF: 5177662.6/105

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4180.579+/-1670.530 χ^2/NDF : 8.5/13

Left Out: -2260.196+/-475.336 χ^2/NDF : 52.3/24

Right Out: 2902.867+/-1706.389 χ^2/NDF : 11.6/14

Left In: 485.590+/-487.465 χ^2/NDF : 24.8/22

Left: -921.890+/-340.321 χ^2/NDF : 93.4/47

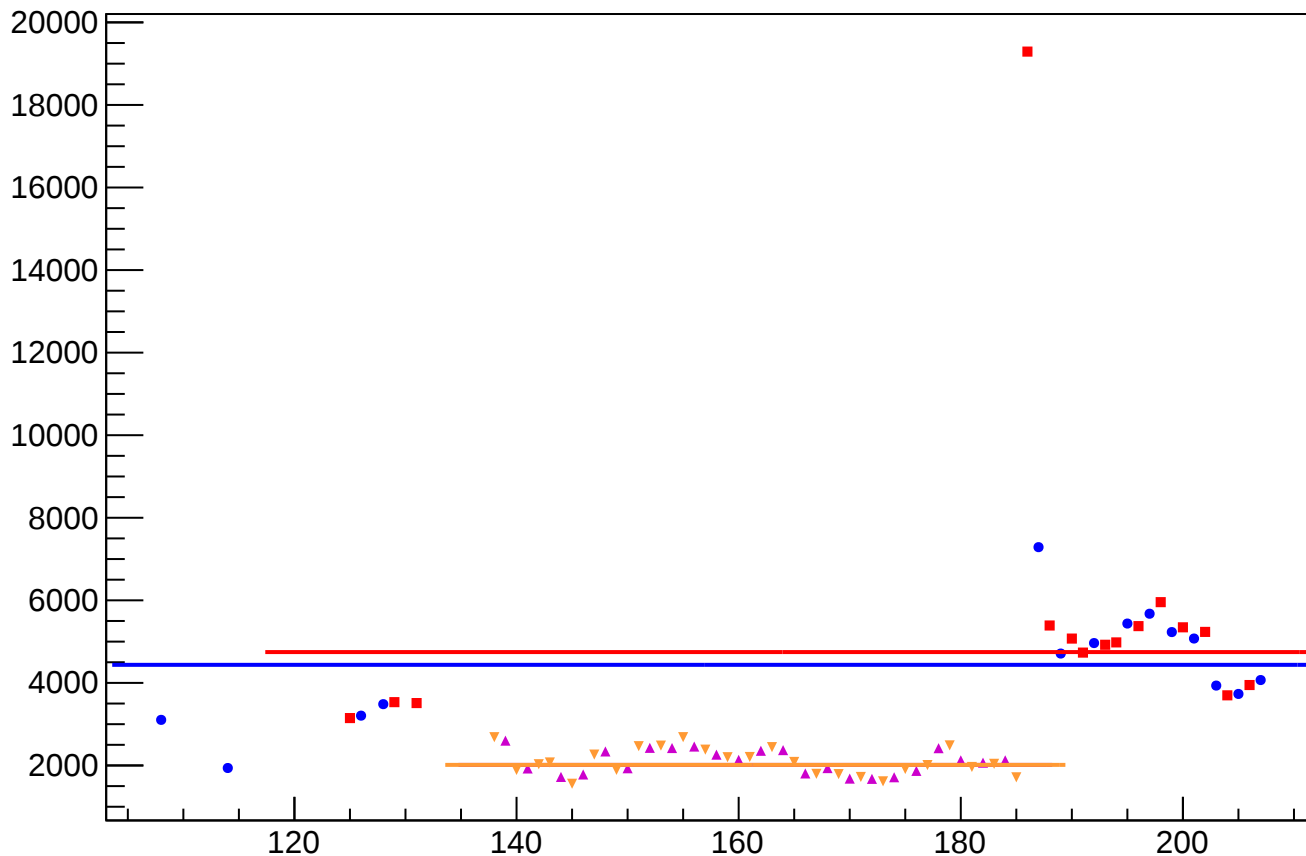
Right: -714.068+/-1193.719 χ^2/NDF : 28.9/28

In: 119.447+/-467.950 χ^2/NDF : 40.5/36

Out: -1888.408+/-457.902 χ^2/NDF : 72.4/39

All: -906.269+/-327.280 χ^2/NDF : 122.3/76

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4437.487+/-1.181 χ^2/NDF : 553529.6/13

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4746.666+/-1.207 χ^2/NDF : 814805.0/14

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

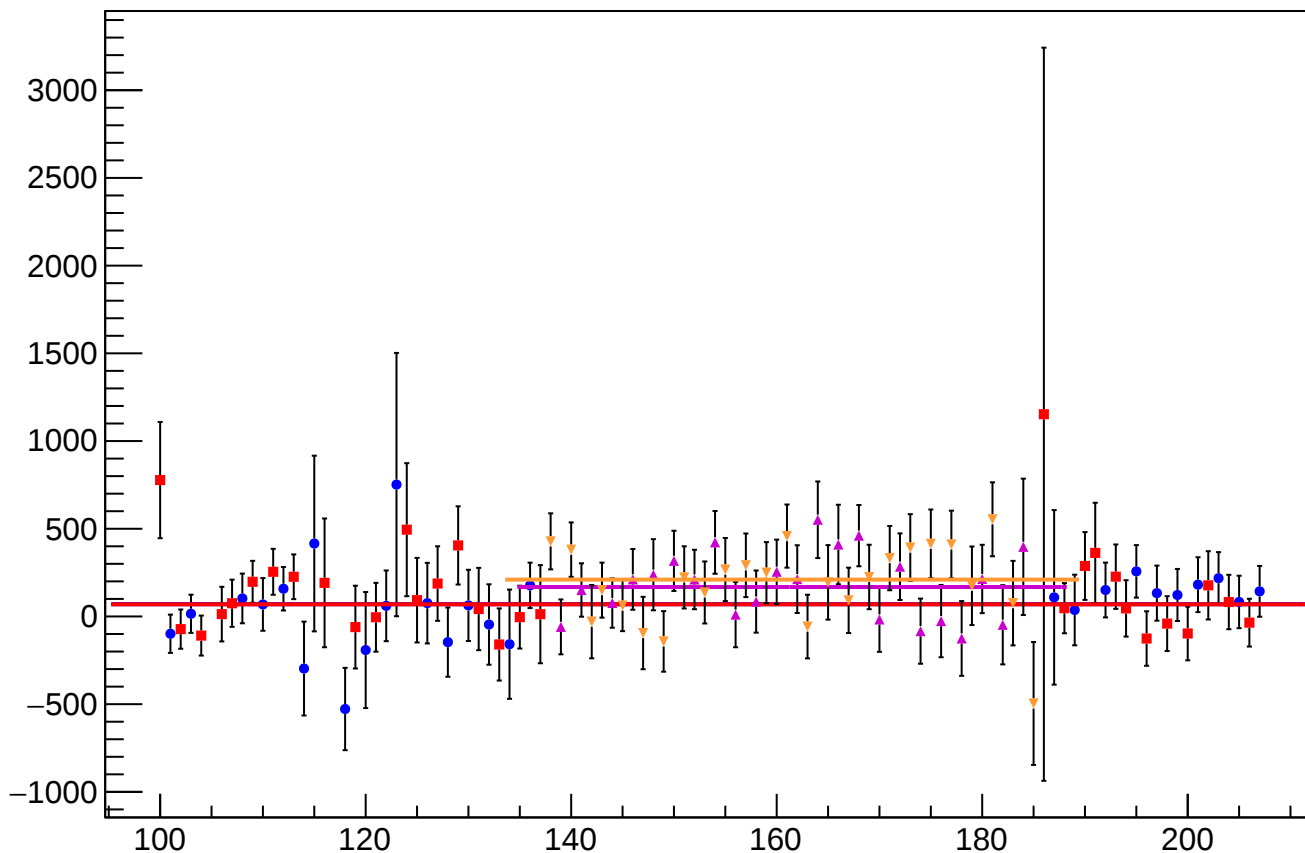
Right: 4588.794+/-0.844 χ^2/NDF : 1401861.1/28

In: 2203.470+/-0.331 χ^2/NDF : 5096970.2/36

Out: 2210.875+/-0.324 χ^2/NDF : 6409912.2/39

All: 2207.253+/-0.231 χ^2/NDF : 11507138.3/7

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 69.971+/-32.682 χ^2/NDF : 20.1/26

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 69.157+/-30.719 χ^2/NDF : 26.8/30

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

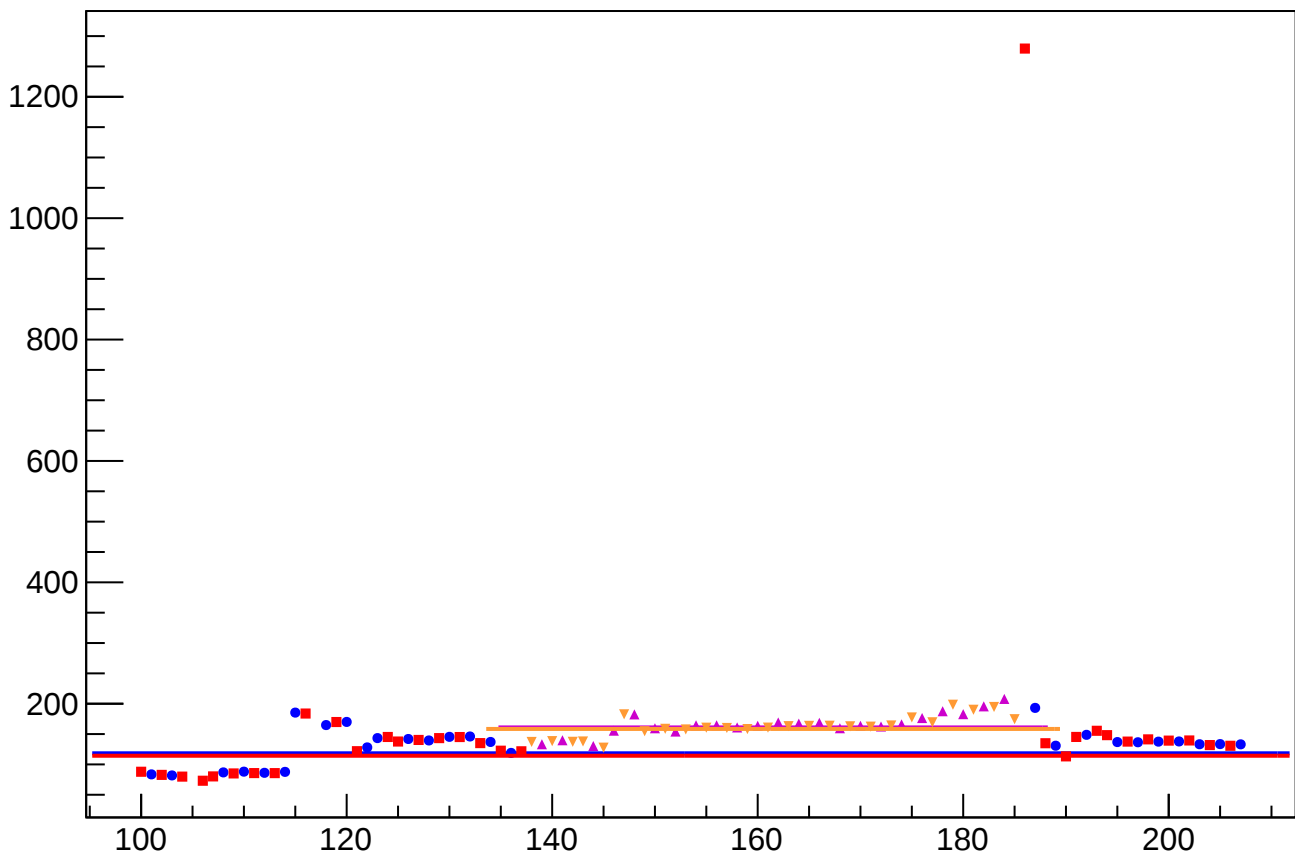
Right: 69.538+/-22.383 χ^2/NDF : 46.9/57

In: 110.683+/-24.974 χ^2/NDF :45.0/49

Out: 126.489+/-23.659 χ^2/NDF :62.9/55

All: 119.013+/-17.176 χ^2/NDF : 108.1/105

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 118.308+/-0.023 χ^2/NDF : 1366516.5/26

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 114.284+/-0.022 χ^2/NDF : 2402220.7/30

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

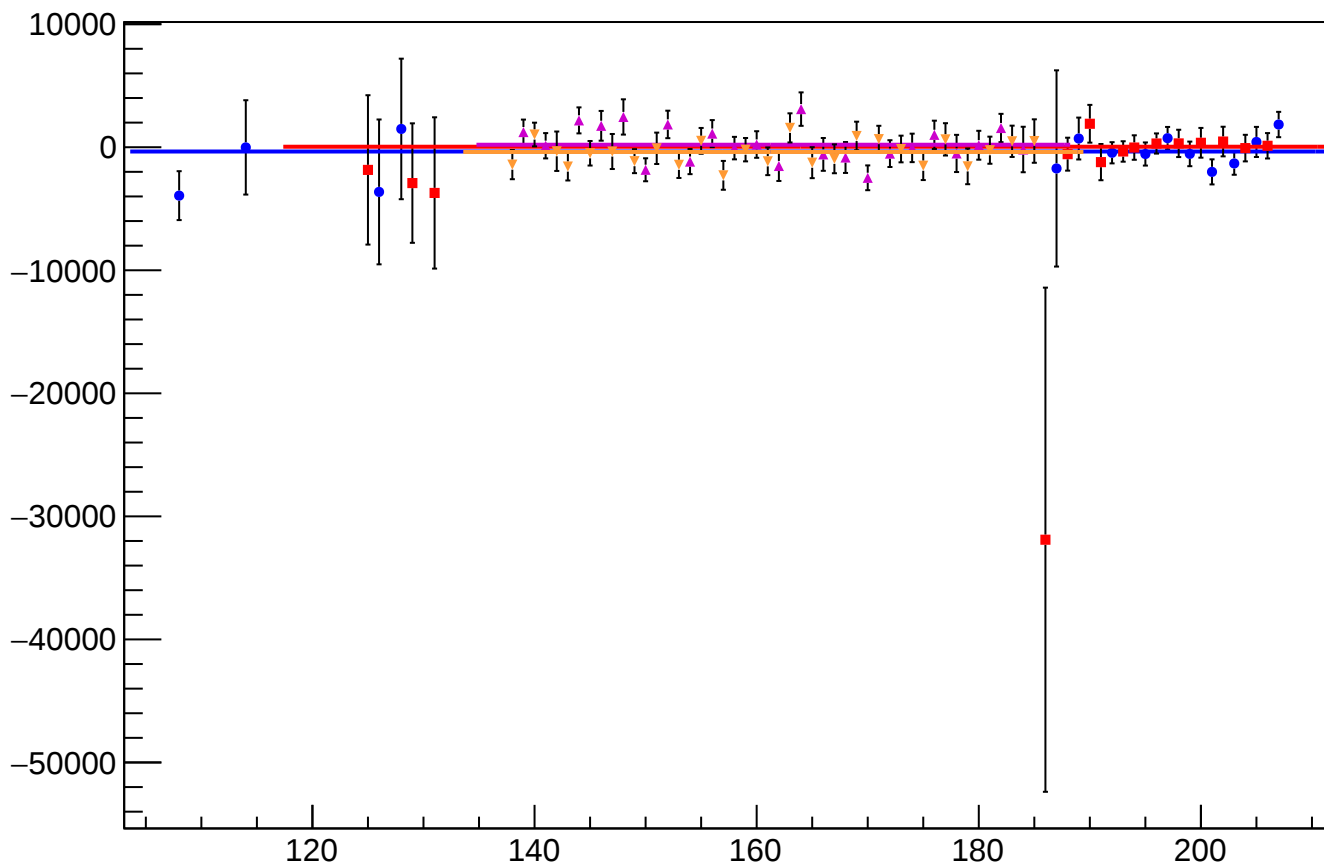
Right: 116.171+/-0.016 χ^2/NDF : 3784836.2/57

In: 136.049+/-0.018 χ^2/NDF : 3162663.4/49

Out: 132.247+/-0.017 χ^2/NDF : 4517706.7/55

All: 134.045+/-0.012 χ^2/NDF : 7704788.4/105

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -347.854+/-330.053 χ^2/NDF : 14.3/13

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 40.192+/-324.866 χ^2/NDF : 6.3/14

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

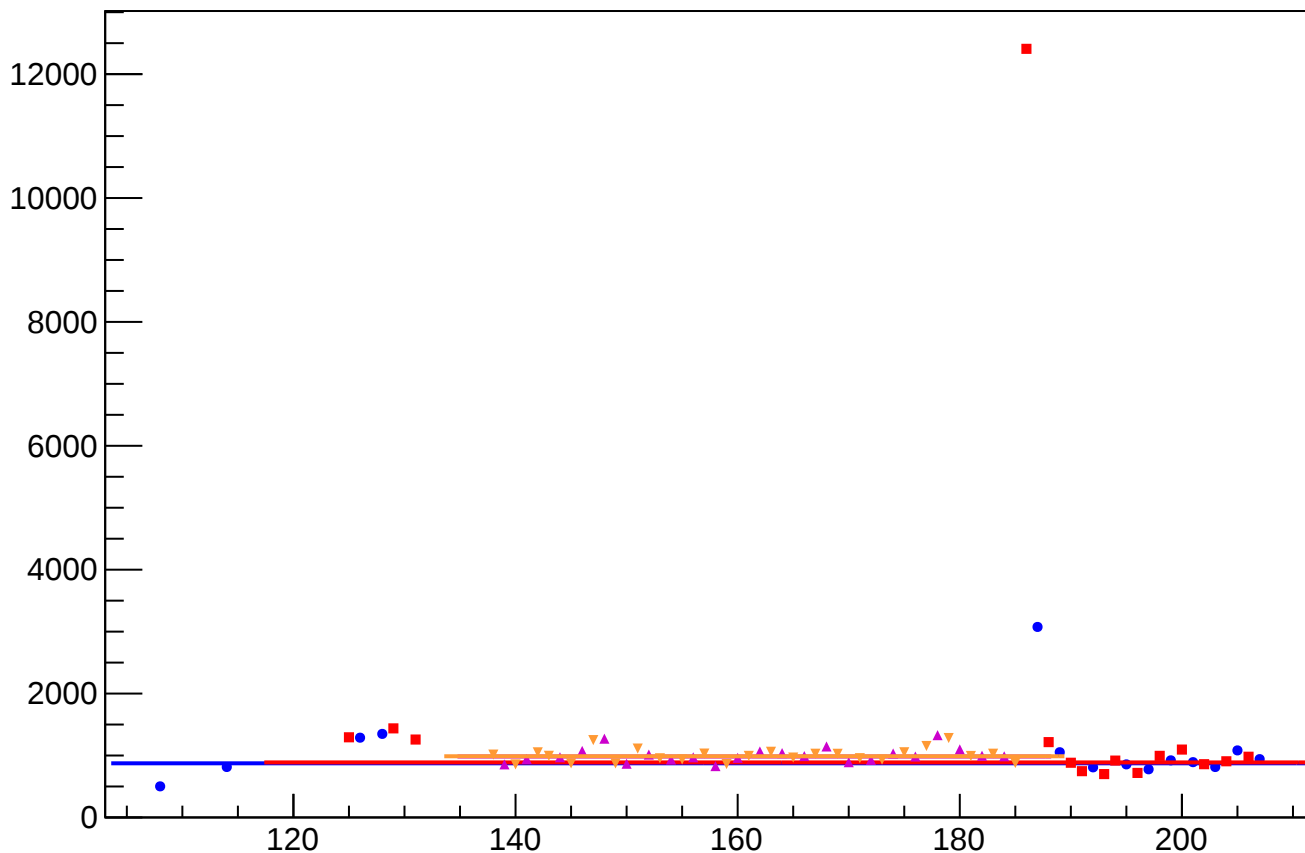
Right: -150.758+/-231.527 χ^2/NDF : 21.3/28

In: 14.613+/-192.756 χ^2/NDF : 51.6/36

Out: -241.542+/-188.709 χ^2/NDF : 25.5/39

All: -116.181+/-134.846 χ^2/NDF : 78.0/76

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 874.057+/-0.233 χ^2/NDF : 383771.1/13

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 888.637+/-0.230 χ^2/NDF : 1097508.9/14

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

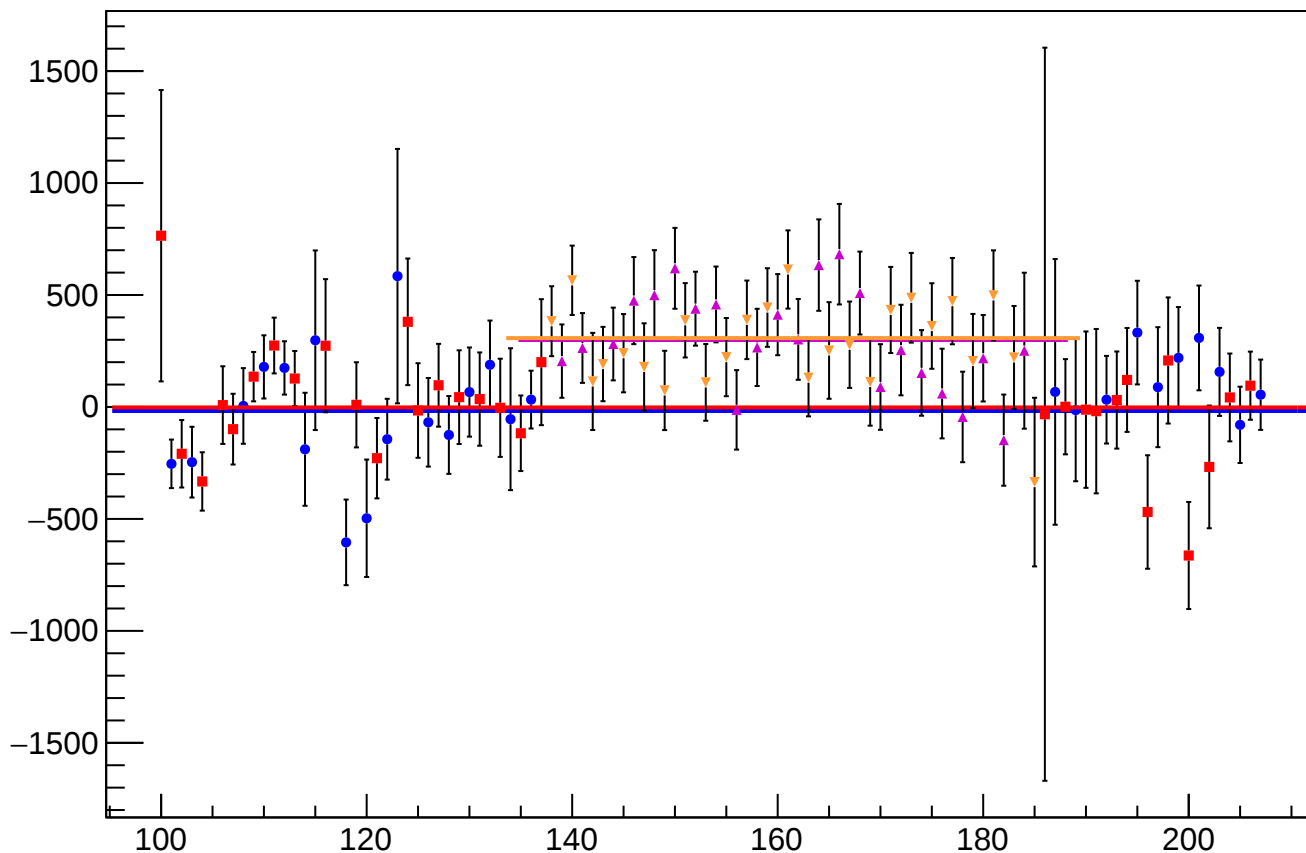
Right: 881.462+/-0.164 χ^2/NDF : 1483262.3/28

In: 946.431+/-0.136 χ^2/NDF : 945982.6/36

Out: 954.385+/-0.133 χ^2/NDF : 1598107.8/39

All: 950.492+/-0.095 χ^2/NDF : 2545829.6/76

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -17.909 ± 36.085 χ^2/NDF : 35.4/26

Left Out: 307.487 ± 37.278 χ^2/NDF : 20.7/24

Right Out: -2.157 ± 34.380 χ^2/NDF : 36.6/30

Left In: 299.192 ± 39.009 χ^2/NDF : 28.5/22

Left: 303.528 ± 26.951 χ^2/NDF : 49.3/47

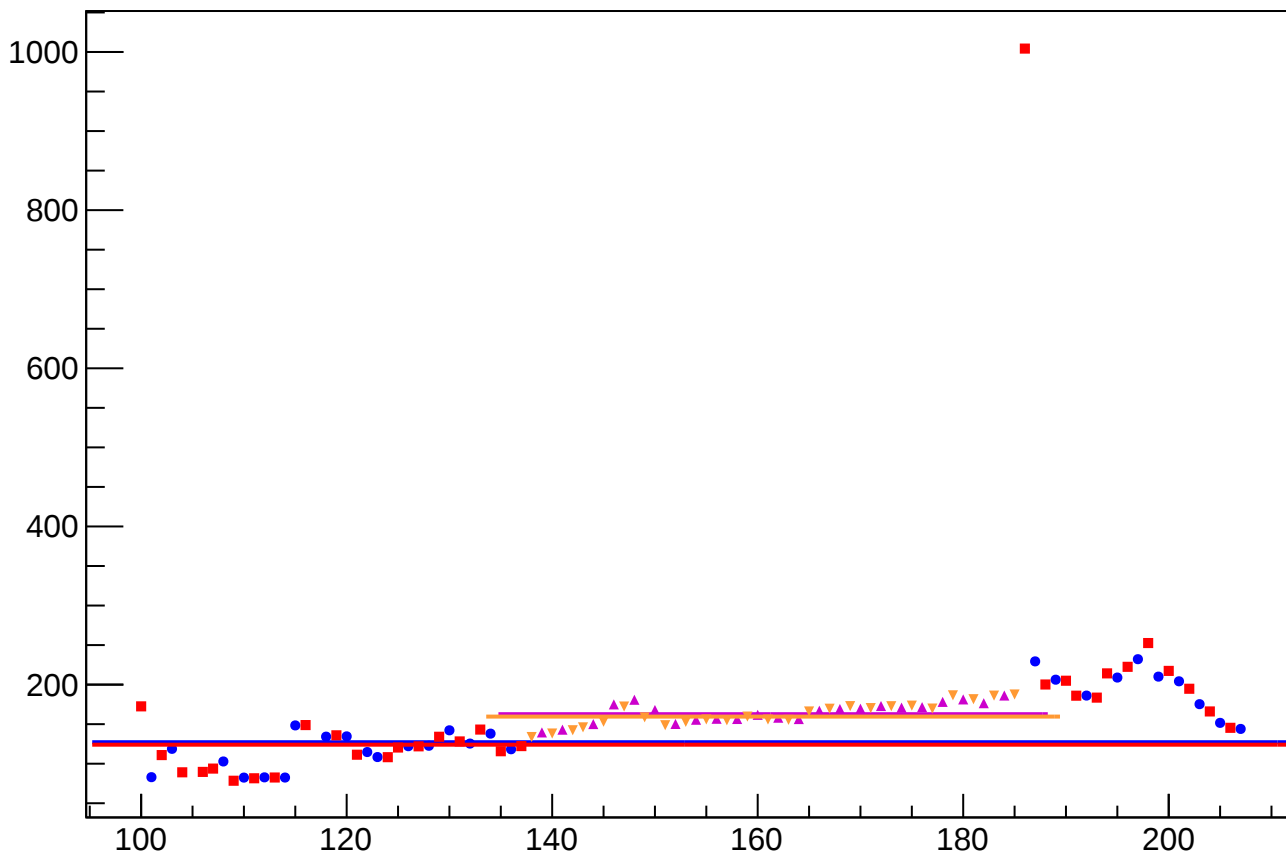
Right: -9.652 ± 24.891 χ^2/NDF : 72.1/57

In: 128.314 ± 26.489 χ^2/NDF : 99.6/49

Out: 140.165 ± 25.273 χ^2/NDF : 94.6/55

All: 134.518 ± 18.286 χ^2/NDF : 194.3/105

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 127.156 $\pm$ 0.026 χ^2 /NDF: 2558924.0/26

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 124.043 $\pm$ 0.024 χ^2 /NDF: 3926413.7/30

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

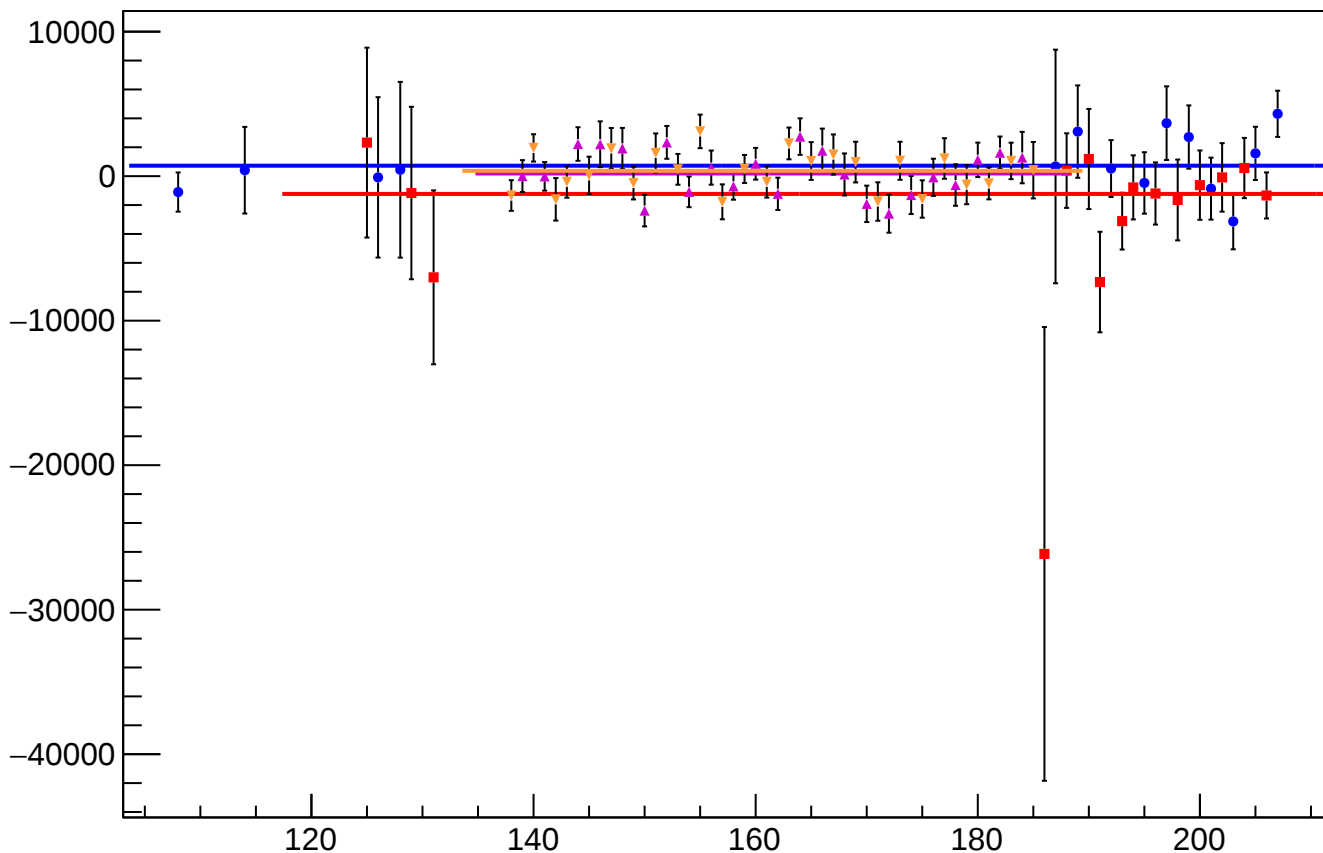
Right: 125.524 $\pm$ 0.018 χ^2 /NDF: 6493140.1/57

In: 143.503 $\pm$ 0.019 χ^2 /NDF: 3648555.4/49

Out: 140.372 $\pm$ 0.018 χ^2 /NDF: 5195688.0/55

All: 141.864 $\pm$ 0.013 χ^2 /NDF: 8858874.4/105

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 723.883 $\pm$ 593.269 χ^2 /NDF: 14.6/13

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -1228.863 $\pm$ 677.069 χ^2 /NDF: 9.7/14

Left In: 183.107 $\pm$ 252.258 χ^2 /NDF:36.5/22

Left: 279.847 $\pm$ 175.203 χ^2 /NDF: 67.2/47

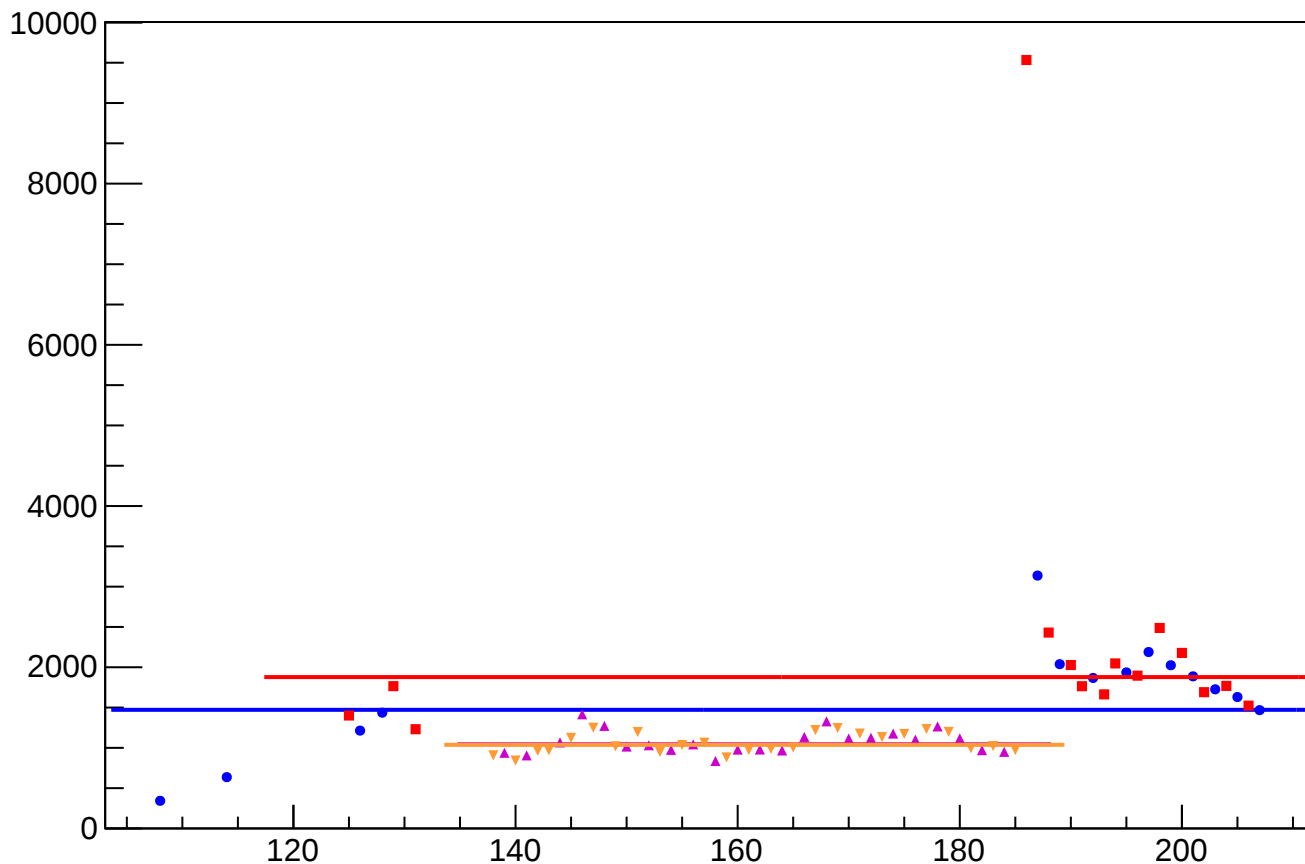
Right: -124.232 $\pm$ 446.208 χ^2 /NDF: 29.1/28

In: 265.907 $\pm$ 232.144 χ^2 /NDF:51.8/36

Out: 186.861 $\pm$ 229.150 χ^2 /NDF:45.1/39

All: 225.871 $\pm$ 163.082 χ^2 /NDF: 97.0/76

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1471.819+/-0.420 χ^2/NDF : 2278825.6/13

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1877.911+/-0.479 χ^2/NDF : 886006.3/14

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

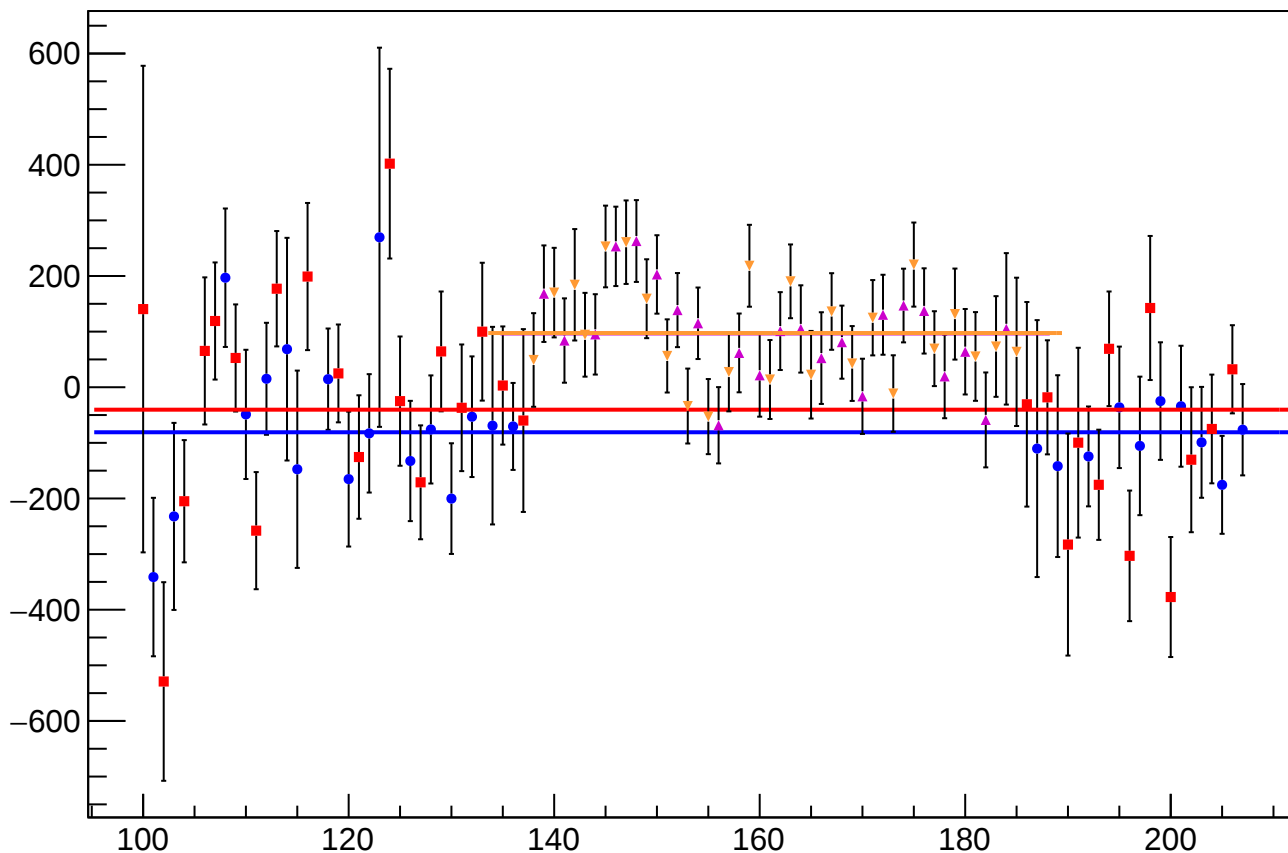
Right: 1648.193+/-0.316 χ^2/NDF : 3571821.8/28

In: 1110.136+/-0.164 χ^2/NDF : 3699863.5/36

Out: 1133.932+/-0.162 χ^2/NDF : 4108199.6/39

All: 1122.188+/-0.115 χ^2/NDF : 7818706.3/76

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -80.961 ± 21.732 χ^2/NDF : 17.5/26

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -40.358 ± 20.834 χ^2/NDF : 60.4/30

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

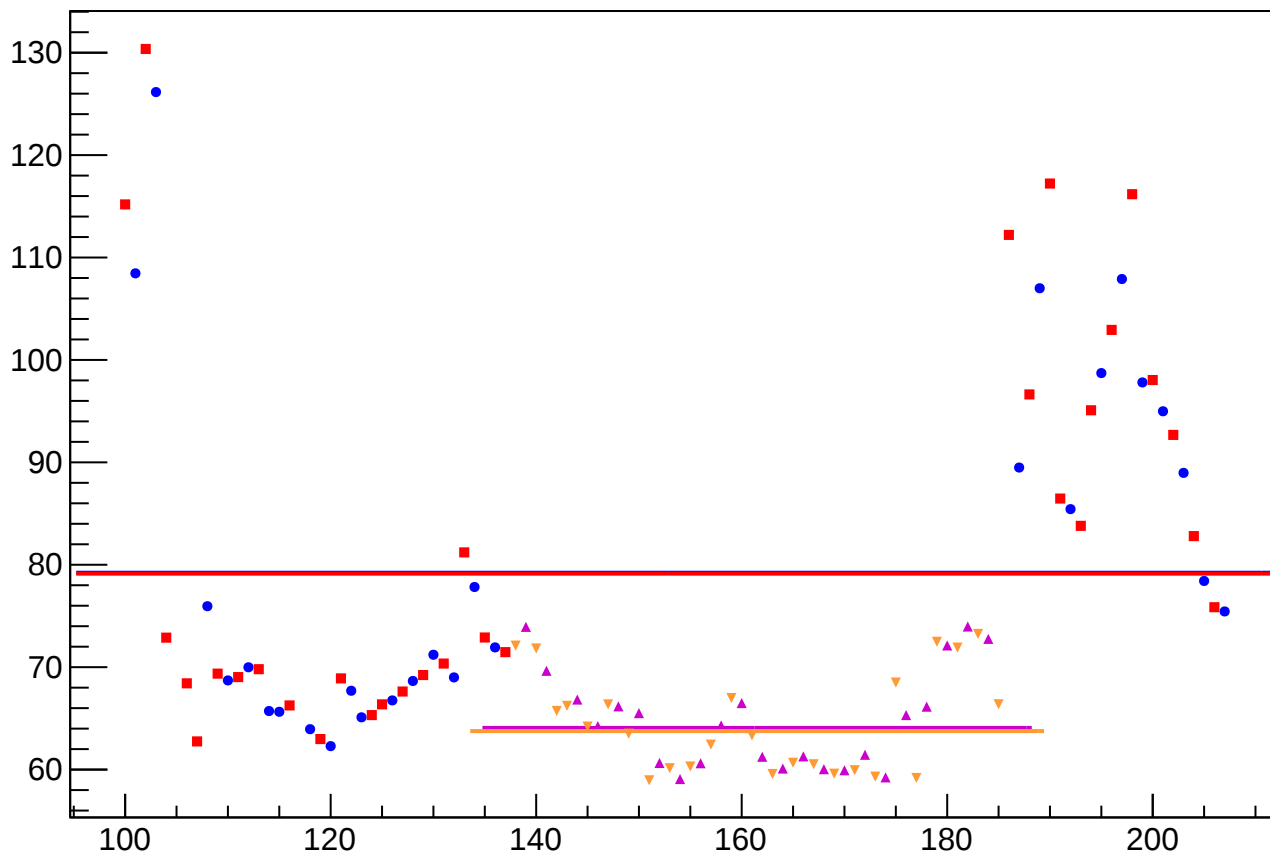
Right: -59.803 ± 15.039 χ^2/NDF : 79.7/57

In: 37.468 ± 12.548 χ^2/NDF : 91.2/49

Out: 50.896 ± 12.109 χ^2/NDF : 125.4/55

All: 44.422 ± 8.713 χ^2/NDF : 217.3/105

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 79.222 $\pm$ 0.015 χ^2 /NDF: 884542.7/26

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 79.134 $\pm$ 0.015 χ^2 /NDF: 1094746.3/30

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

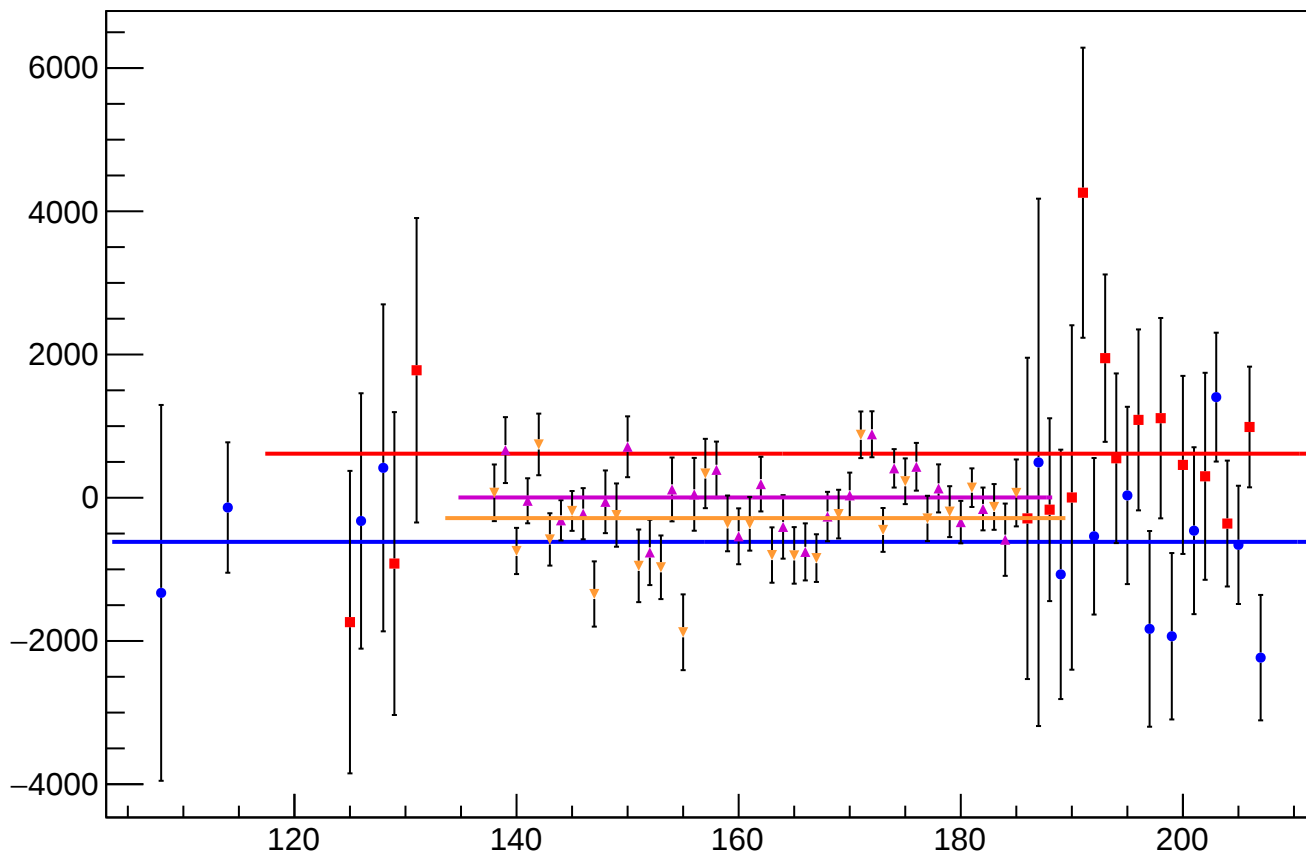
Right: 79.176 $\pm$ 0.011 χ^2 /NDF: 1979305.9/57

In: 69.121 $\pm$ 0.009 χ^2 /NDF: 1697401.8/49

Out: 68.954 $\pm$ 0.009 χ^2 /NDF: 2008670.2/55

All: 69.034 $\pm$ 0.006 χ^2 /NDF: 3706254.9/105

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -616.041 ± 319.928 $\chi^2/\text{NDF}: 11.6/13$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 615.284 ± 346.916 $\chi^2/\text{NDF}: 9.0/14$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

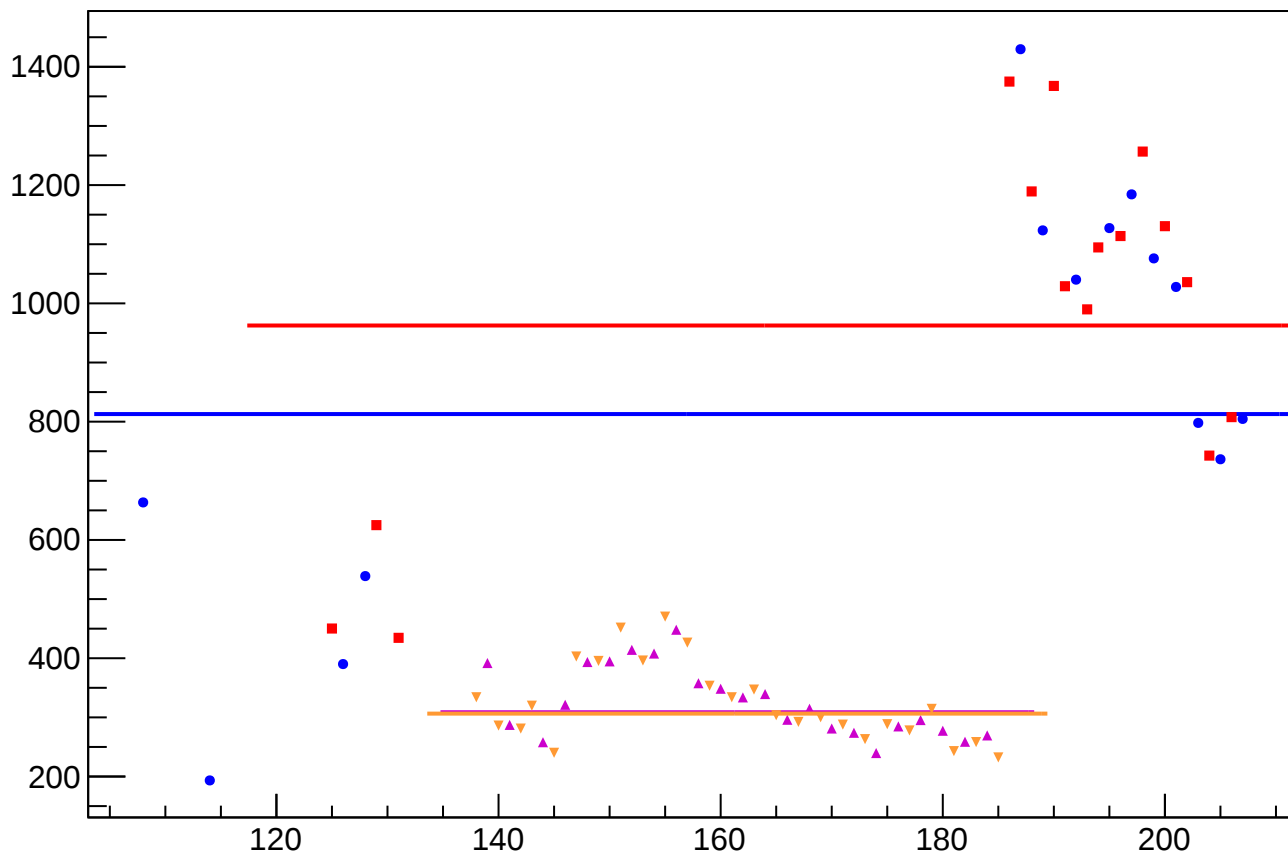
Right: -50.129 ± 235.186 $\chi^2/\text{NDF}: 27.3/28$

In: -28.334 ± 73.098 $\chi^2/\text{NDF}: 47.5/36$

Out: -246.427 ± 71.185 $\chi^2/\text{NDF}: 70.5/39$

All: -140.272 ± 50.998 $\chi^2/\text{NDF}: 122.5/76$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 812.847+/-0.226 χ^2/NDF : 1744935.7/13

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 962.584+/-0.245 χ^2/NDF : 859156.5/14

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

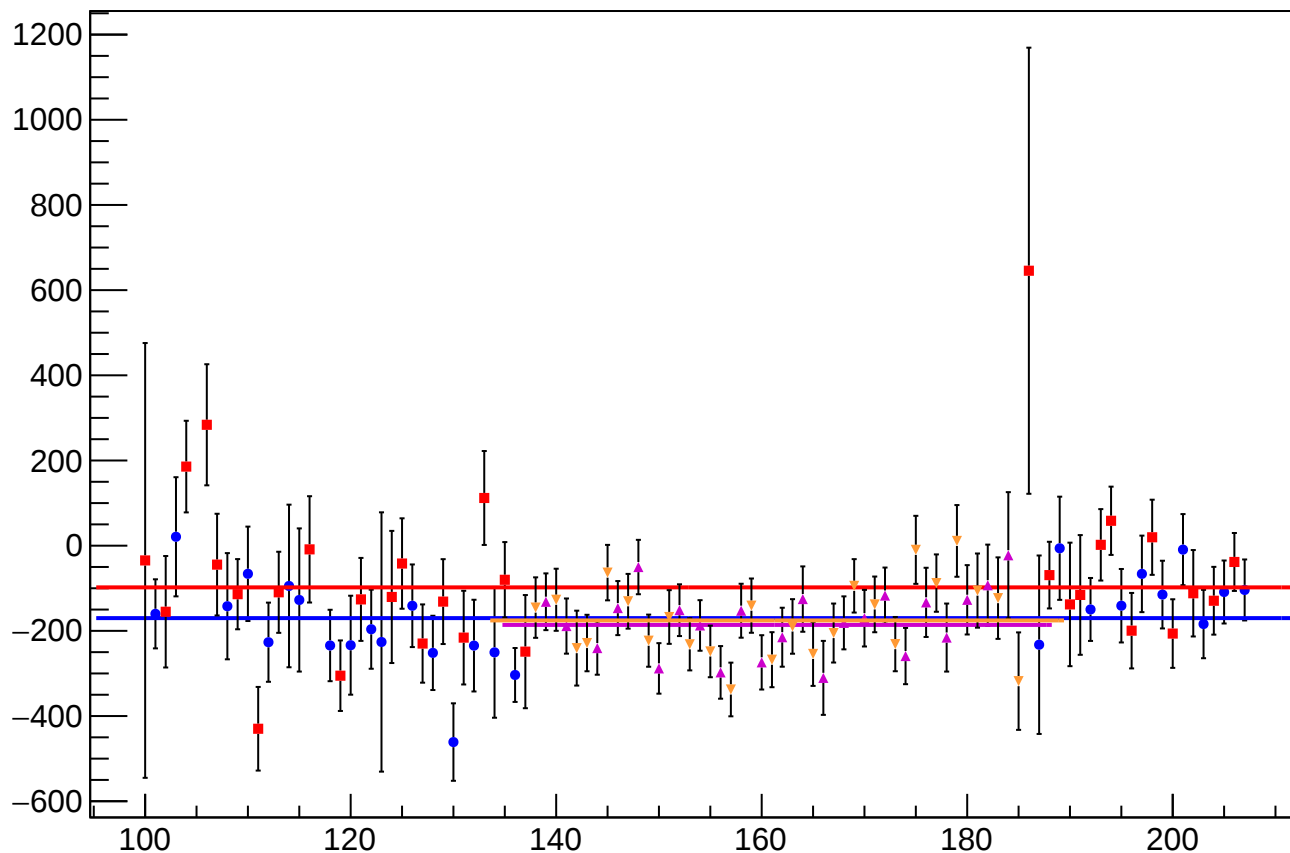
Right: 881.666+/-0.166 χ^2/NDF : 2805444.3/28

In: 335.044+/-0.052 χ^2/NDF : 7454499.6/36

Out: 333.993+/-0.050 χ^2/NDF : 8929722.0/39

All: 334.504+/-0.036 χ^2/NDF : 16384434.0/76

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -170.077 $\pm$ 18.334 χ^2 /NDF: 29.9/26

Left Out: -175.471 $\pm$ 13.846 χ^2 /NDF:34.6/24

Right Out: -97.902 $\pm$ 17.996 χ^2 /NDF: 54.8/30

Left In: -186.047 $\pm$ 14.315 χ^2 /NDF:23.6/22

Left: -180.583 $\pm$ 9.952 χ^2 /NDF: 58.5/47

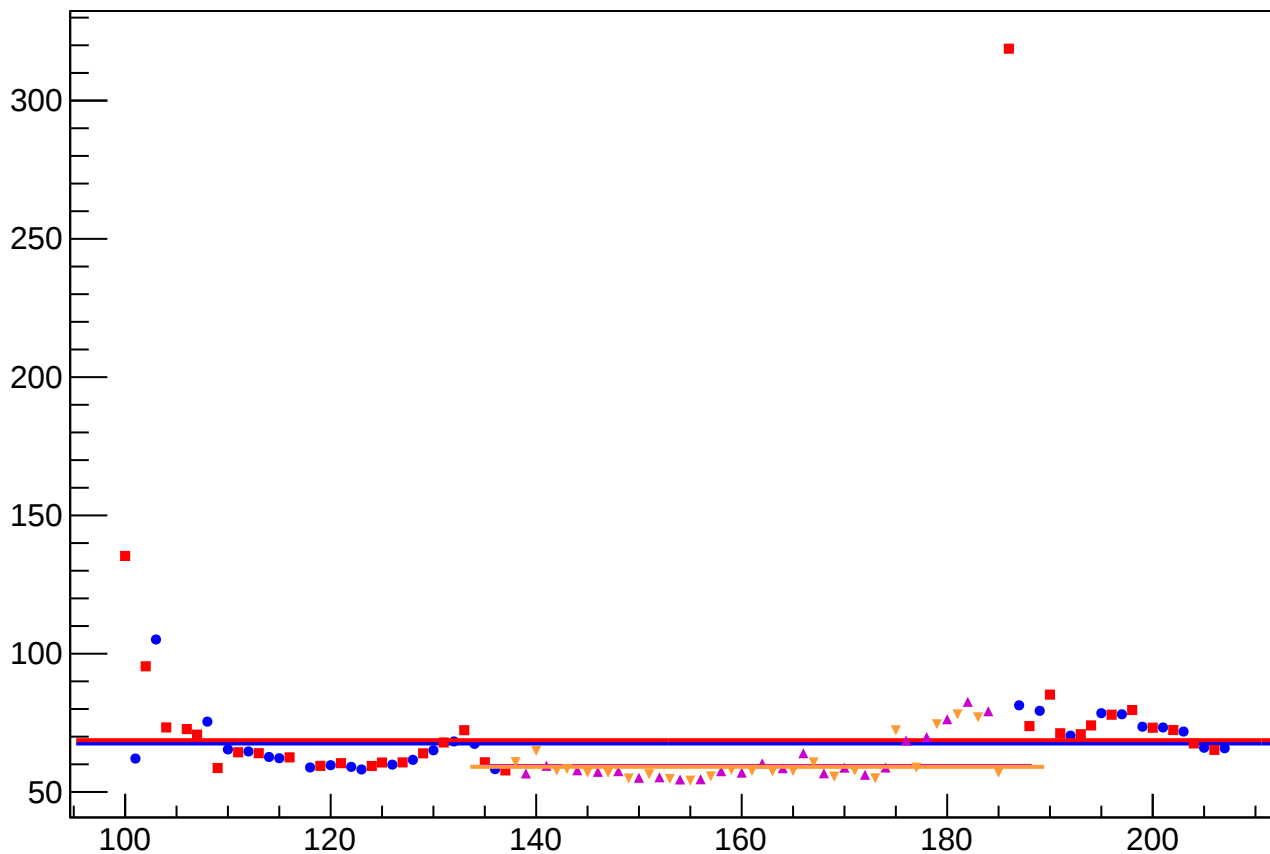
Right: -133.317 $\pm$ 12.843 χ^2 /NDF: 92.6/57

In: -179.999 $\pm$ 11.283 χ^2 /NDF:53.9/49

Out: -146.628 $\pm$ 10.974 χ^2 /NDF:101.1/55

All: -162.849 $\pm$ 7.867 χ^2 /NDF: 159.5/105

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.530 $\pm$ 0.013 χ^2 /NDF: 402595.0/26

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.727 $\pm$ 0.013 χ^2 /NDF: 845260.4/30

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

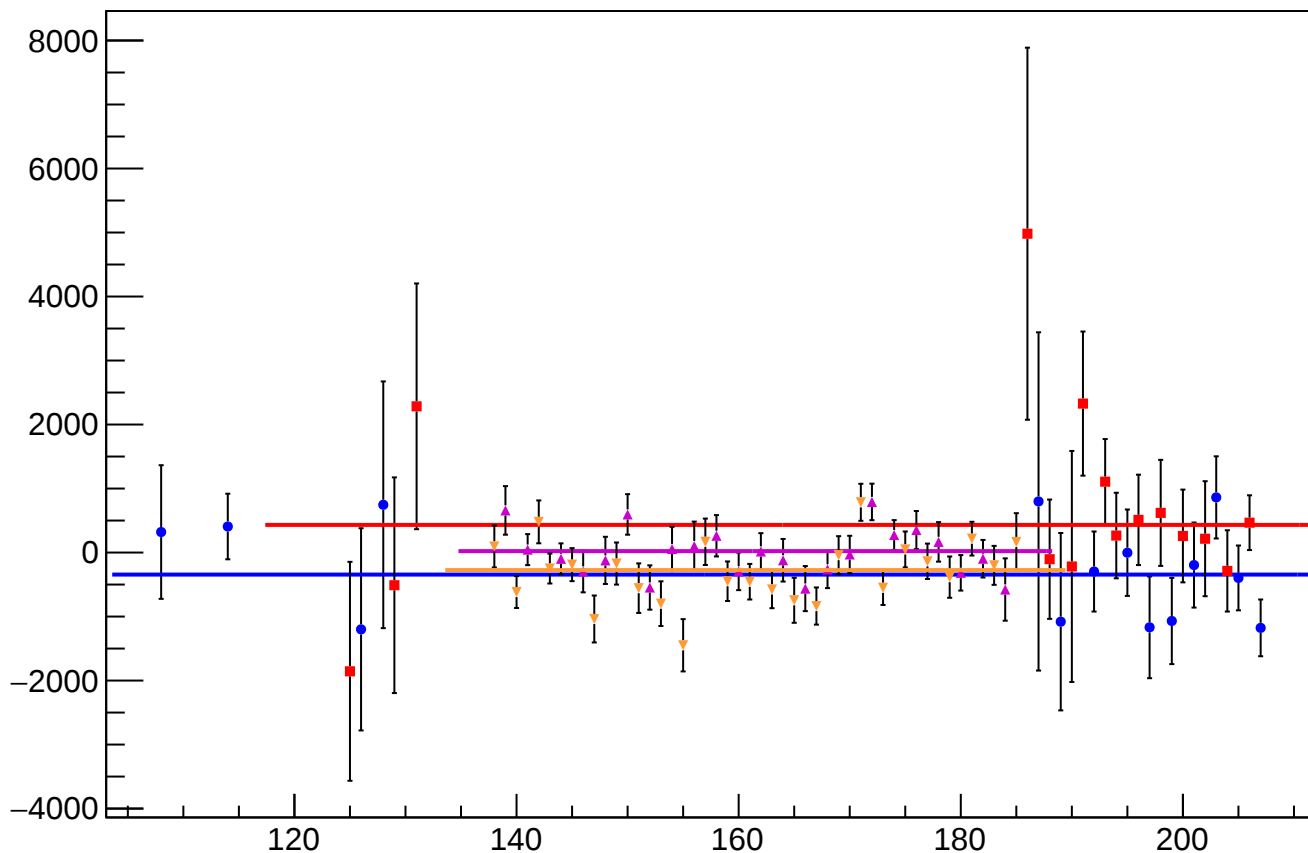
Right: 68.139 $\pm$ 0.009 χ^2 /NDF: 1252199.1/57

In: 62.485 $\pm$ 0.008 χ^2 /NDF: 1019314.5/49

Out: 62.679 $\pm$ 0.008 χ^2 /NDF: 1574617.7/55

All: 62.585 $\pm$ 0.006 χ^2 /NDF: 2594235.5/105

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -344.193 $\pm$ 188.052 χ^2/NDF : 13.2/13

Left Out: -274.091 $\pm$ 60.799 χ^2/NDF : 53.9/24

Right Out: 431.885 $\pm$ 211.410 χ^2/NDF : 11.3/14

Left In: 22.631 $\pm$ 63.643 χ^2/NDF : 28.9/22

Left: -132.507 $\pm$ 43.963 χ^2/NDF : 94.2/47

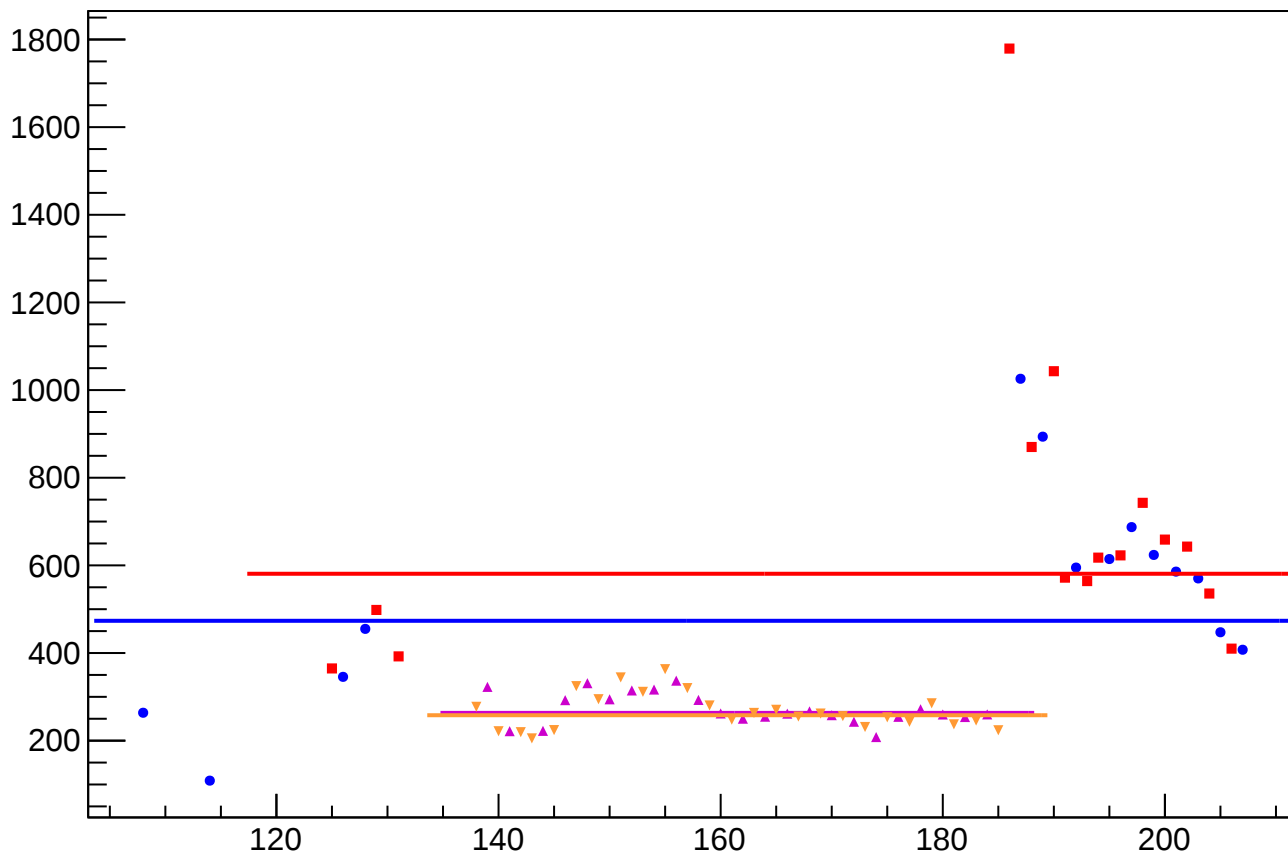
Right: -1.380 $\pm$ 140.508 χ^2/NDF : 32.1/28

In: -15.067 $\pm$ 60.284 χ^2/NDF : 45.6/36

Out: -220.162 $\pm$ 58.431 χ^2/NDF : 75.5/39

All: -120.815 $\pm$ 41.957 χ^2/NDF : 127.1/76

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 473.526+/-0.133 χ^2/NDF : 1937944.4/13

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 580.859+/-0.149 χ^2/NDF : 1172552.0/14

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

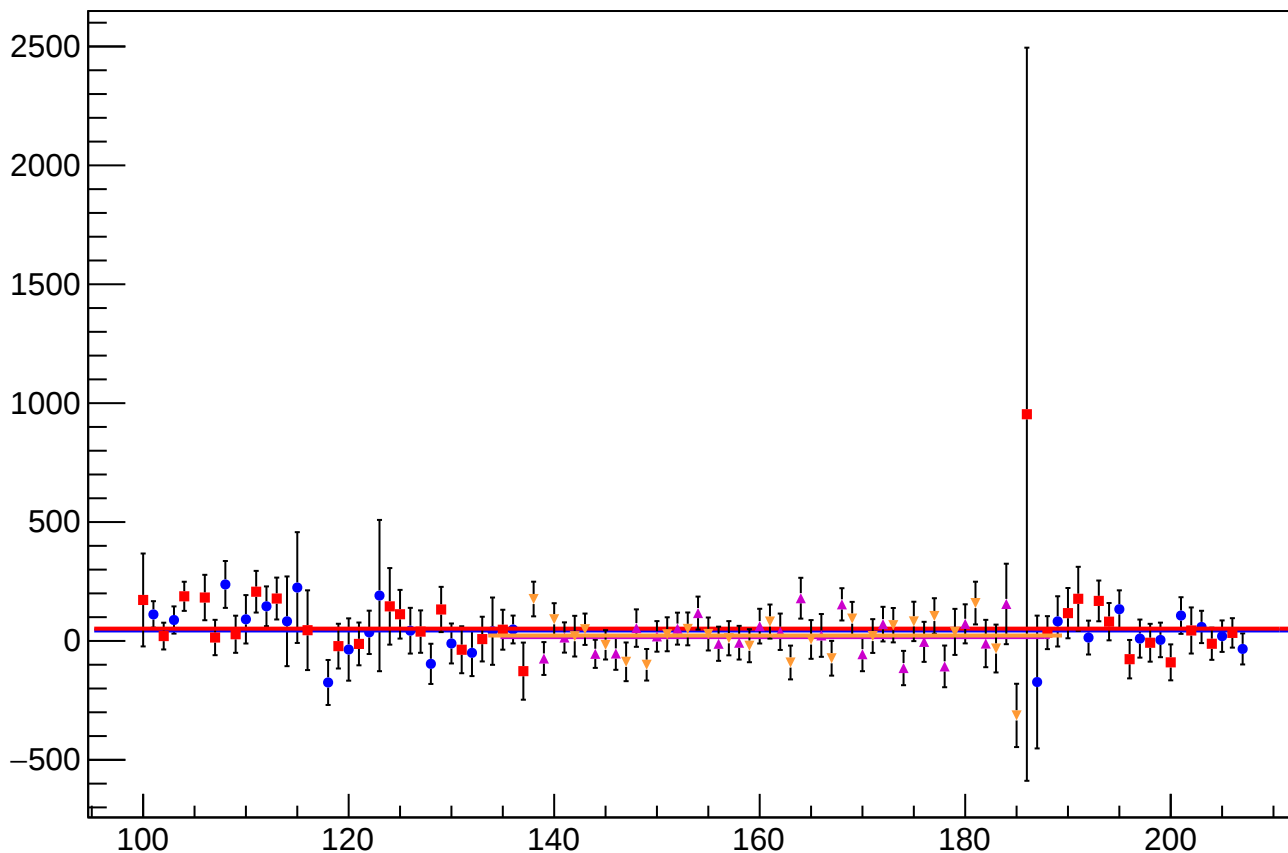
Right: 520.938+/-0.099 χ^2/NDF : 3398301.4/28

In: 284.991+/-0.043 χ^2/NDF : 4764087.7/36

Out: 282.700+/-0.041 χ^2/NDF : 6204495.9/39

All: 283.810+/-0.030 χ^2/NDF : 10970072.6/76

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 44.077 $\pm$ 16.210 χ^2 /NDF: 23.2/26

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 51.775 $\pm$ 15.589 χ^2 /NDF: 30.1/30

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

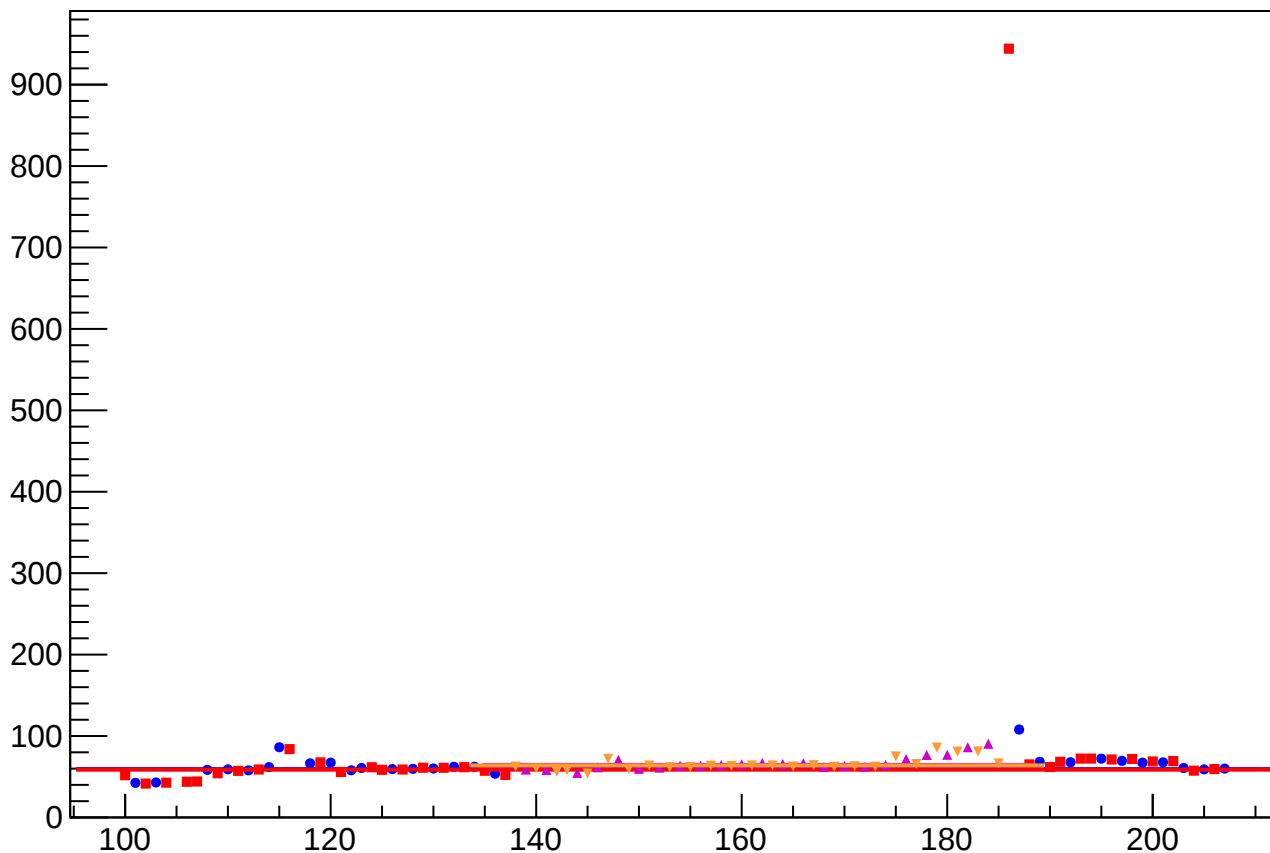
Right: 48.076 $\pm$ 11.236 χ^2 /NDF: 53.4/57

In: 29.541 $\pm$ 11.214 χ^2 /NDF:48.1/49

Out: 36.736 $\pm$ 10.797 χ^2 /NDF:60.8/55

All: 33.275 $\pm$ 7.778 χ^2 /NDF: 109.1/105

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.319 $\pm$ 0.011 χ^2 /NDF: 651111.9/26

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 58.769 $\pm$ 0.011 χ^2 /NDF: 1494017.5/30

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF: 370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

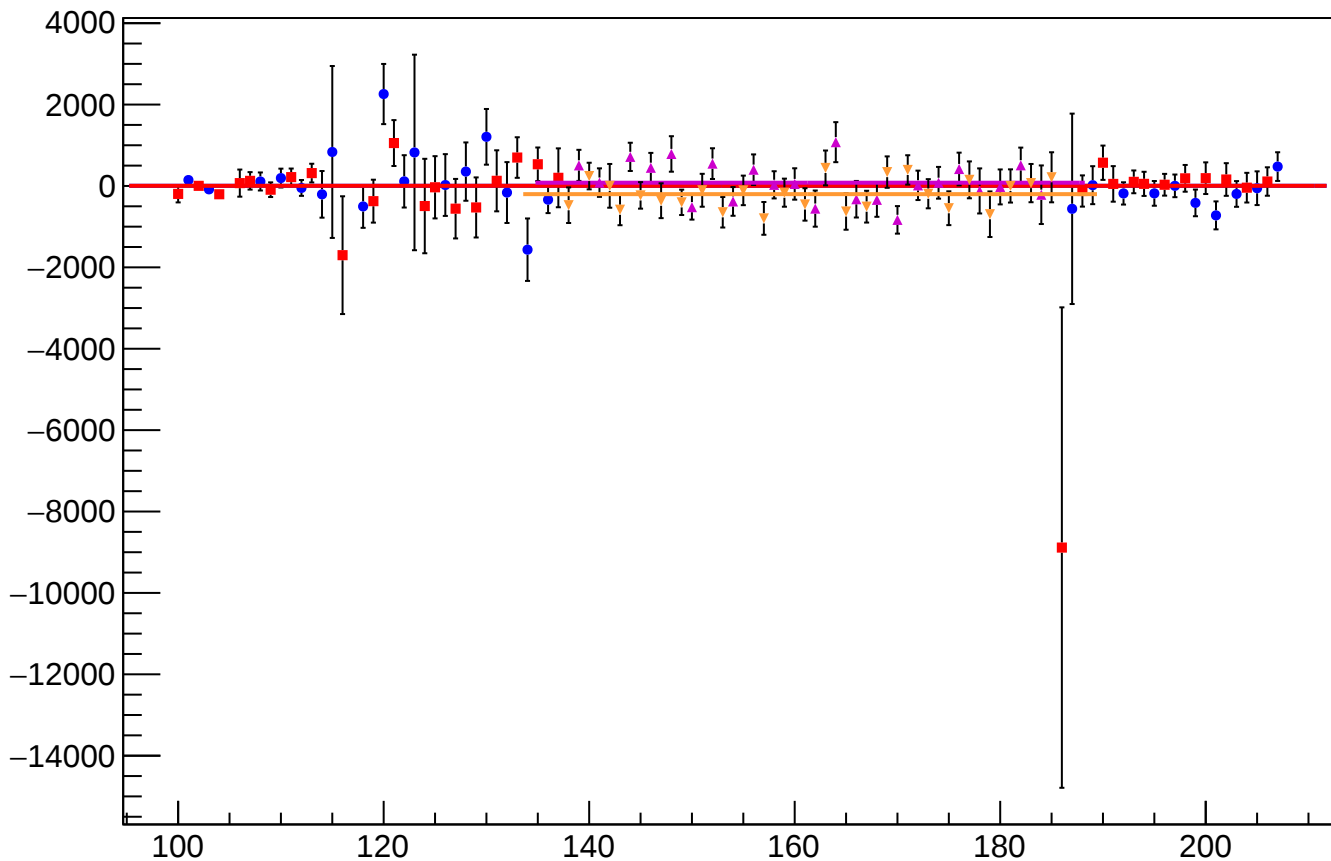
Right: 59.033 $\pm$ 0.008 χ^2 /NDF: 2146326.2/57

In: 62.026 $\pm$ 0.008 χ^2 /NDF: 1128608.8/49

Out: 61.449 $\pm$ 0.008 χ^2 /NDF: 2003060.5/55

All: 61.726 $\pm$ 0.005 χ^2 /NDF: 3134416.4/105

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 3.951 ± 46.641 χ^2/NDF : 33.5/26

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 3.802 ± 47.363 χ^2/NDF : 24.2/30

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

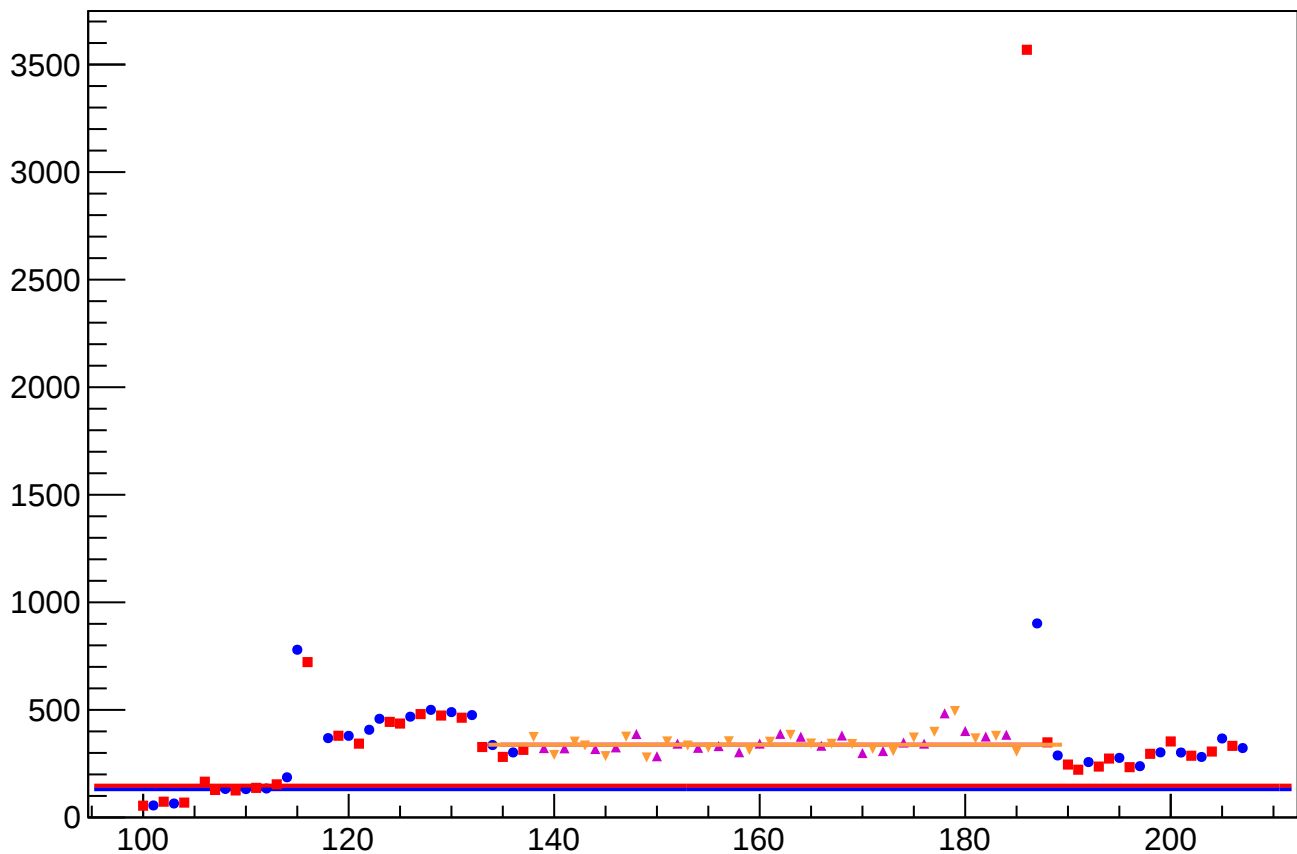
Right: 3.878 ± 33.233 χ^2/NDF : 57.7/57

In: 22.612 ± 40.515 χ^2/NDF : 67.6/49

Out: -49.820 ± 40.696 χ^2/NDF : 48.7/55

All: -13.443 ± 28.712 χ^2/NDF : 117.9/105

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 131.347 $\pm$ 0.033 χ^2 /NDF: 11040800.3/26

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 147.914 $\pm$ 0.033 χ^2 /NDF: 10192130.1/30

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

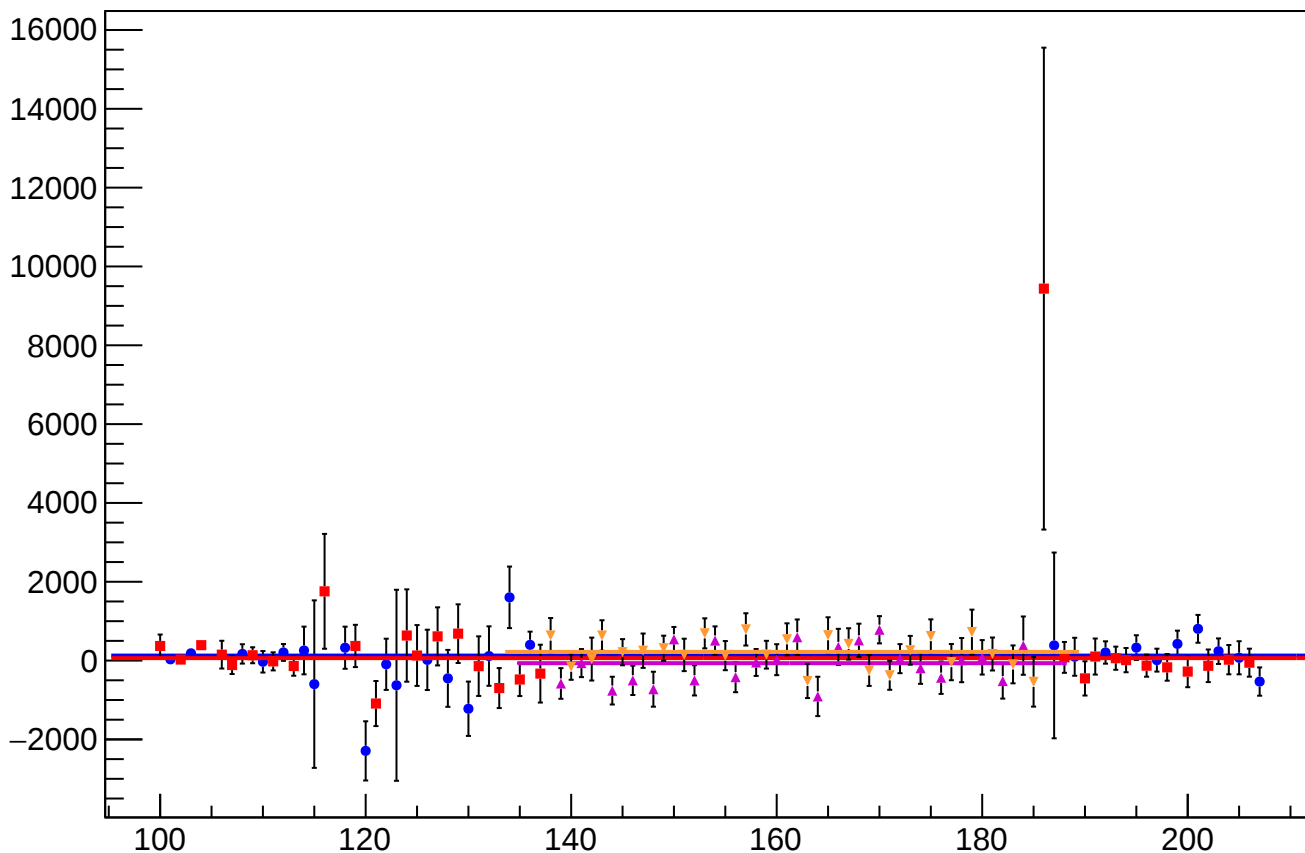
Right: 139.503 $\pm$ 0.023 χ^2 /NDF: 21357153.9/57

In: 182.204 $\pm$ 0.029 χ^2 /NDF: 21166922.1/49

Out: 197.697 $\pm$ 0.029 χ^2 /NDF: 19133388.8/55

All: 189.916 $\pm$ 0.020 χ^2 /NDF: 40445884.6/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 126.784 $\pm$ 55.116 χ^2 /NDF: 29.8/26

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 62.373 $\pm$ 52.891 χ^2 /NDF: 27.5/30

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

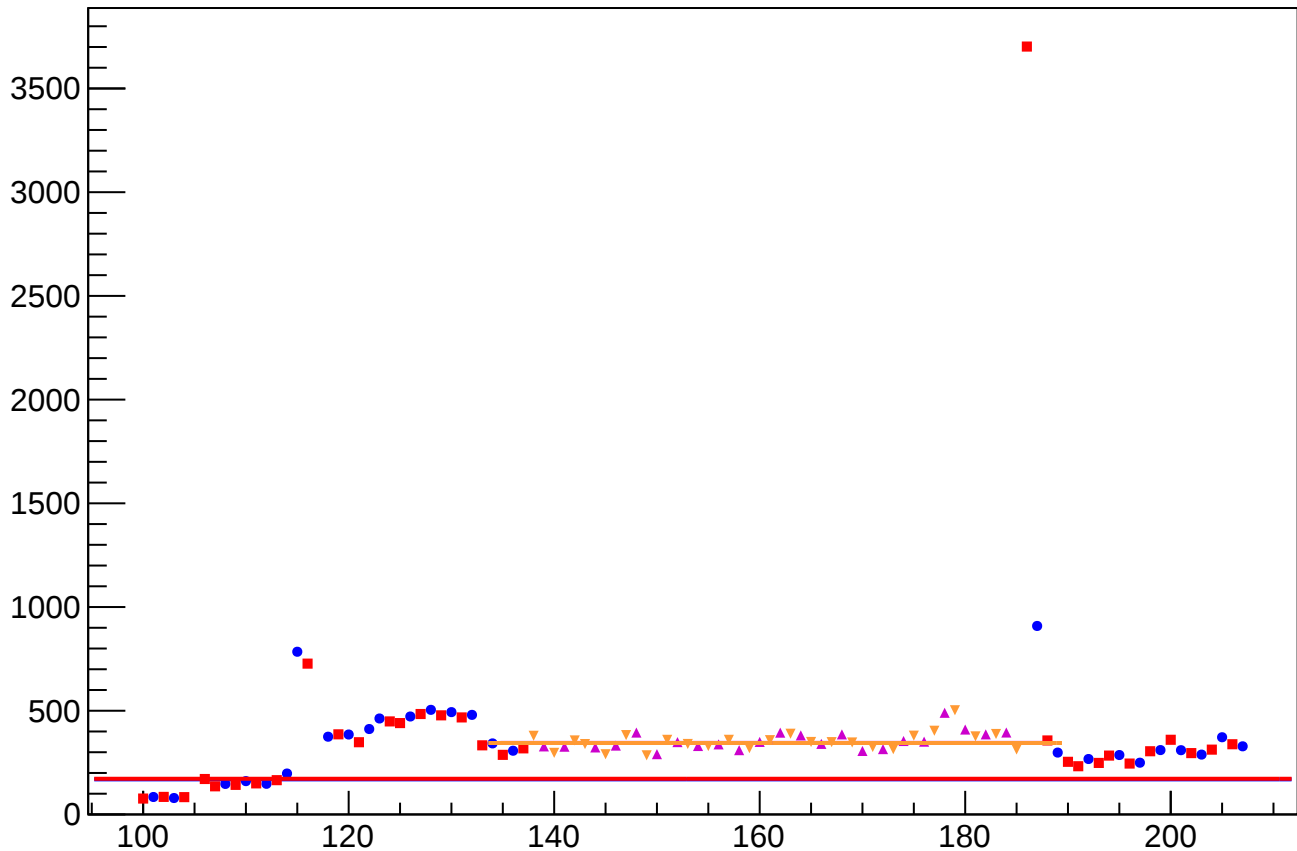
Right: 93.252 $\pm$ 38.162 χ^2 /NDF: 58.0/57

In: 68.252 $\pm$ 45.968 χ^2 /NDF:67.4/49

Out: 109.800 $\pm$ 44.289 χ^2 /NDF:49.9/55

All: 89.799 $\pm$ 31.894 χ^2 /NDF: 117.8/105

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 169.138 $\pm$ 0.039 χ^2 /NDF: 8368597.1/26

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF: 488323.4/24

Right Out: 172.101 $\pm$ 0.037 χ^2 /NDF: 8569613.0/30

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF: 427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

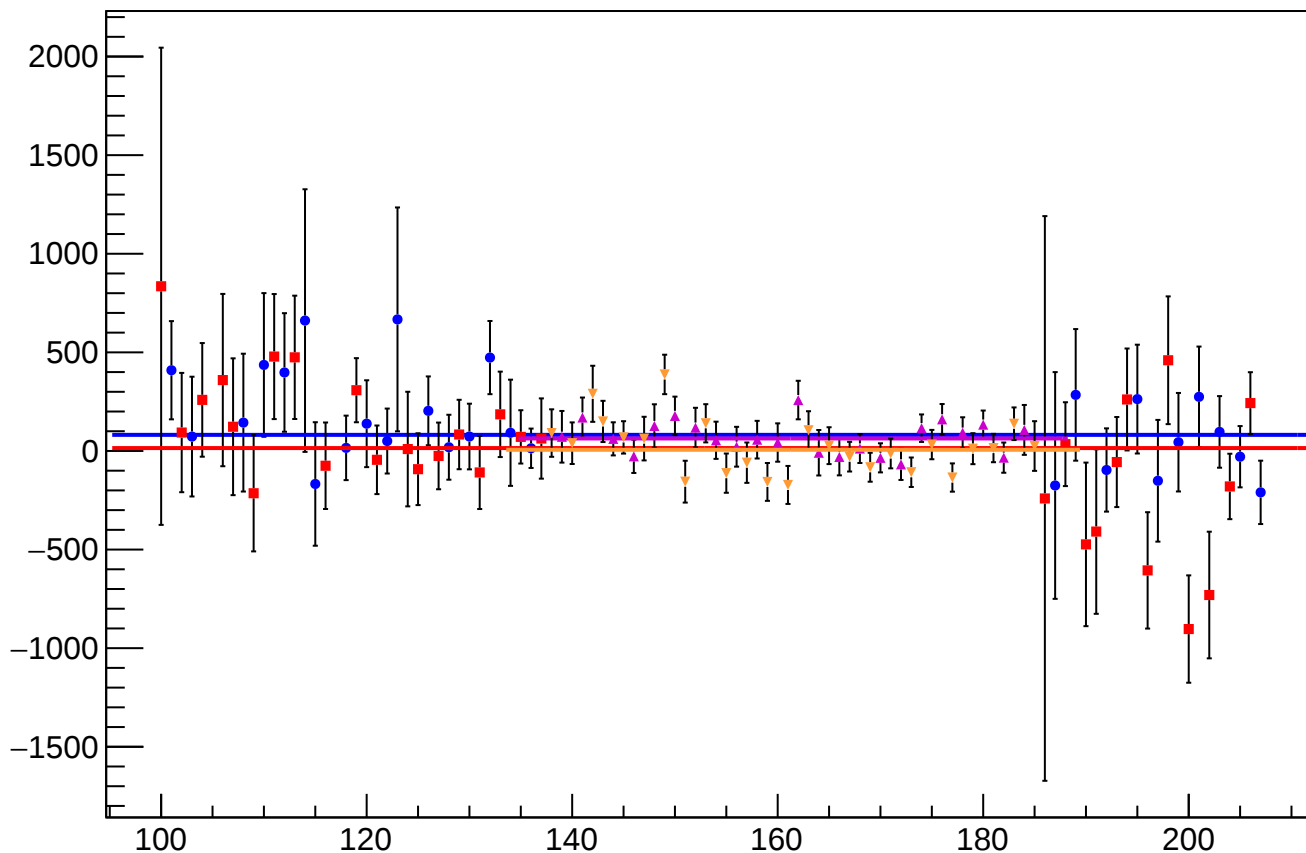
Right: 170.680 $\pm$ 0.027 χ^2 /NDF: 16941220.7/57

In: 222.680 $\pm$ 0.033 χ^2 /NDF: 14996807.0/49

Out: 223.620 $\pm$ 0.031 χ^2 /NDF: 15408091.1/55

All: 223.168 $\pm$ 0.023 χ^2 /NDF: 30405332.3/10

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 81.669 $\pm$ 40.386 χ^2 /NDF: 18.8/26

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 14.676 $\pm$ 41.209 χ^2 /NDF: 42.3/30

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

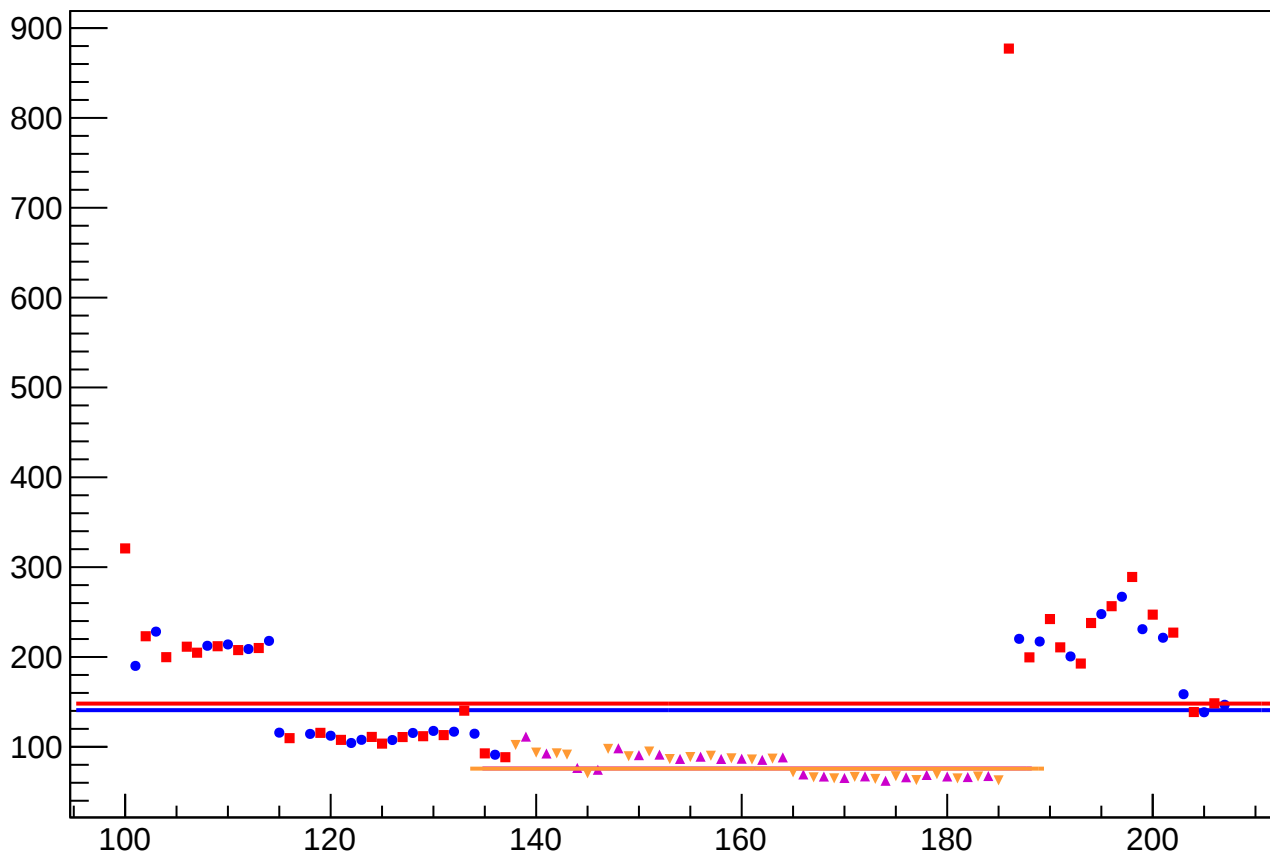
Right: 48.849 $\pm$ 28.844 χ^2 /NDF: 62.4/57

In: 66.453 $\pm$ 16.779 χ^2 /NDF:38.8/49

Out: 7.395 $\pm$ 16.426 χ^2 /NDF:88.3/55

All: 36.296 $\pm$ 11.738 χ^2 /NDF: 133.5/105

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.814 $\pm$ 0.029 χ^2 /NDF: 2867328.9/26

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 148.123 $\pm$ 0.029 χ^2 /NDF: 3874063.3/30

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF:831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

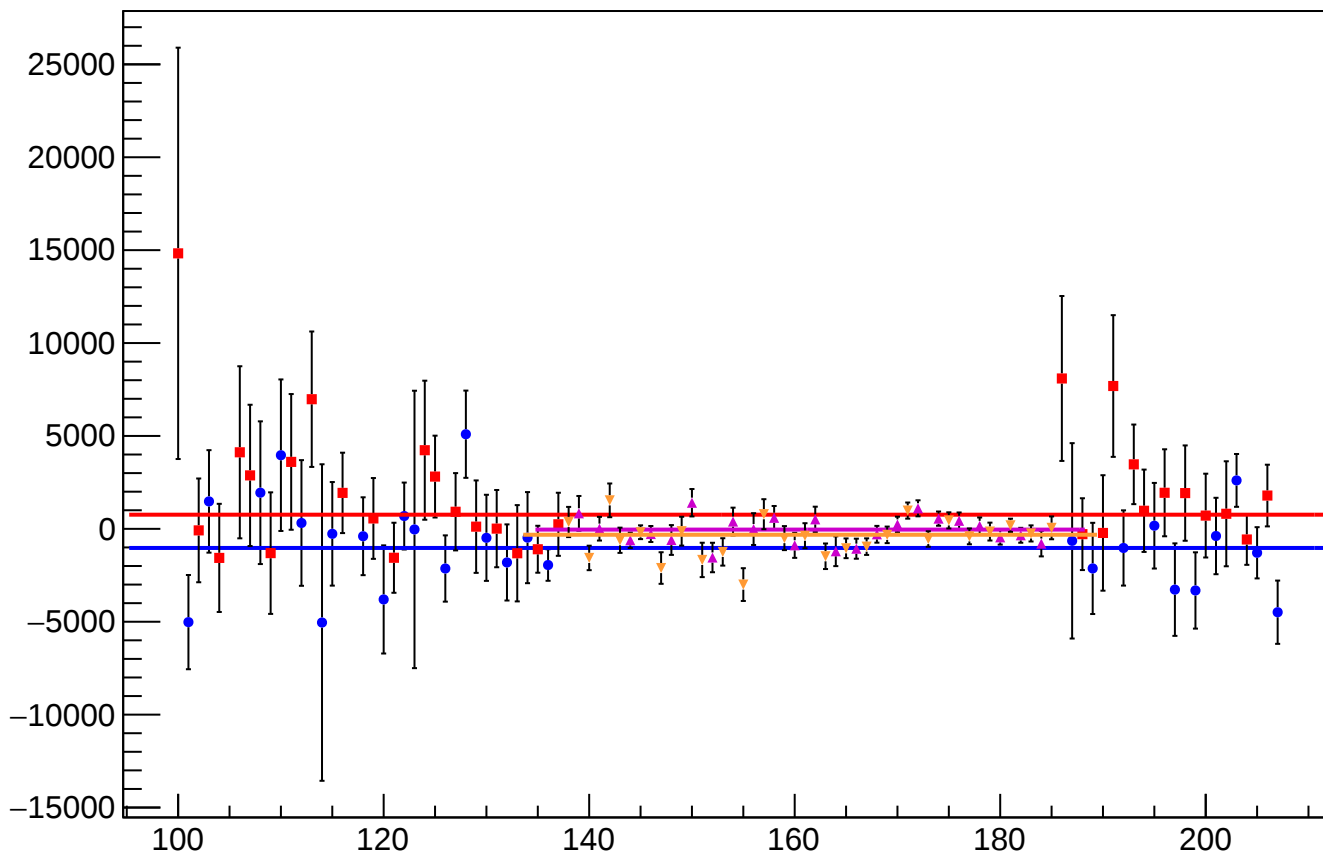
Right: 144.395 $\pm$ 0.020 χ^2 /NDF: 6773480.0/57

In: 87.113 $\pm$ 0.012 χ^2 /NDF:7972692.7/49

Out: 87.242 $\pm$ 0.012 χ^2 /NDF:10001518.5/55

All: 87.179 $\pm$ 0.008 χ^2 /NDF: 17974271.6/105

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1028.765 ± 394.393 $\chi^2/\text{NDF}: 29.7/26$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 761.697 ± 414.760 $\chi^2/\text{NDF}: 23.6/30$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

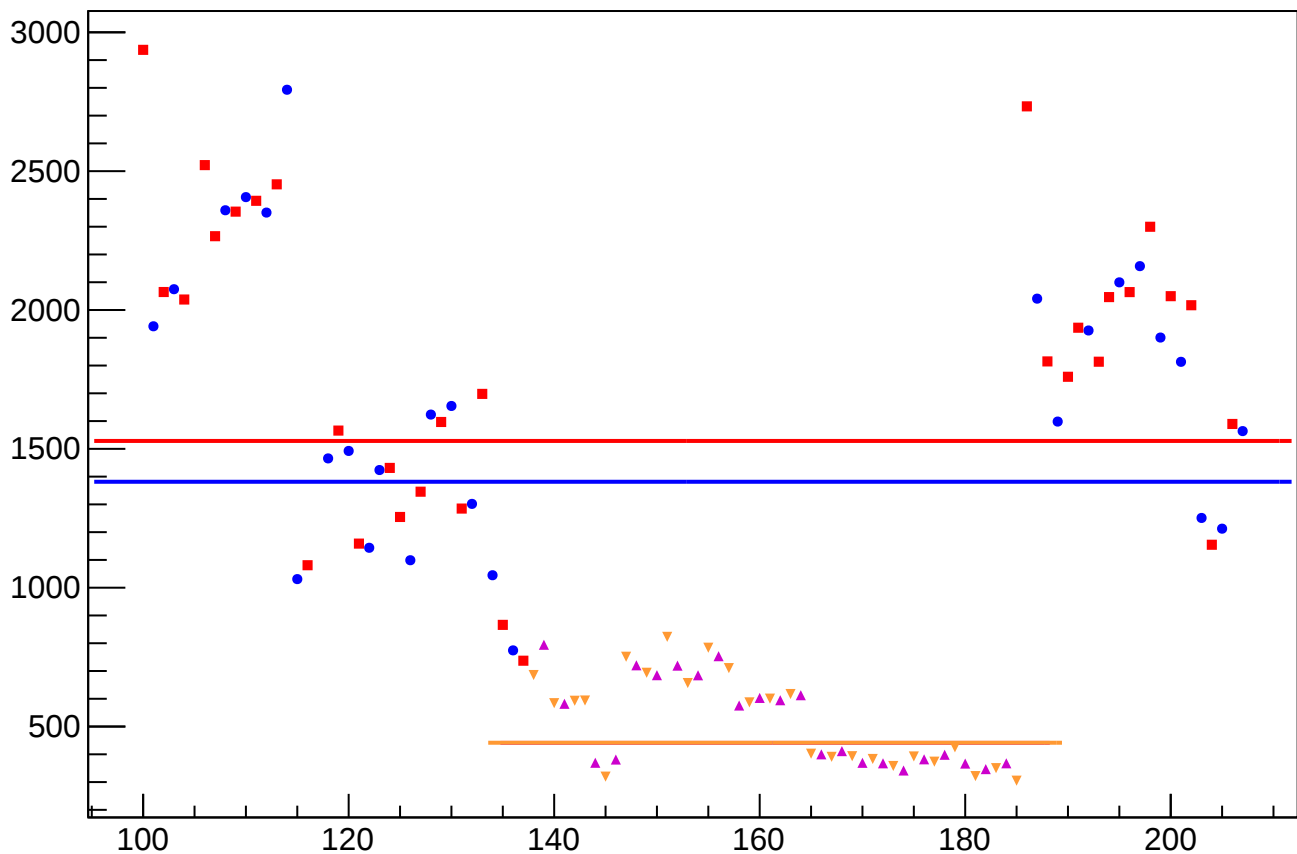
Right: -178.572 ± 285.807 $\chi^2/\text{NDF}: 63.1/57$

In: -112.108 ± 106.181 $\chi^2/\text{NDF}: 70.3/49$

Out: -249.485 ± 104.527 $\chi^2/\text{NDF}: 79.9/55$

All: -181.875 ± 74.490 $\chi^2/\text{NDF}: 151.1/105$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1381.479+/-0.279 χ^2/NDF : 2803559.4/26

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1528.473+/-0.293 χ^2/NDF : 2910757.9/30

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

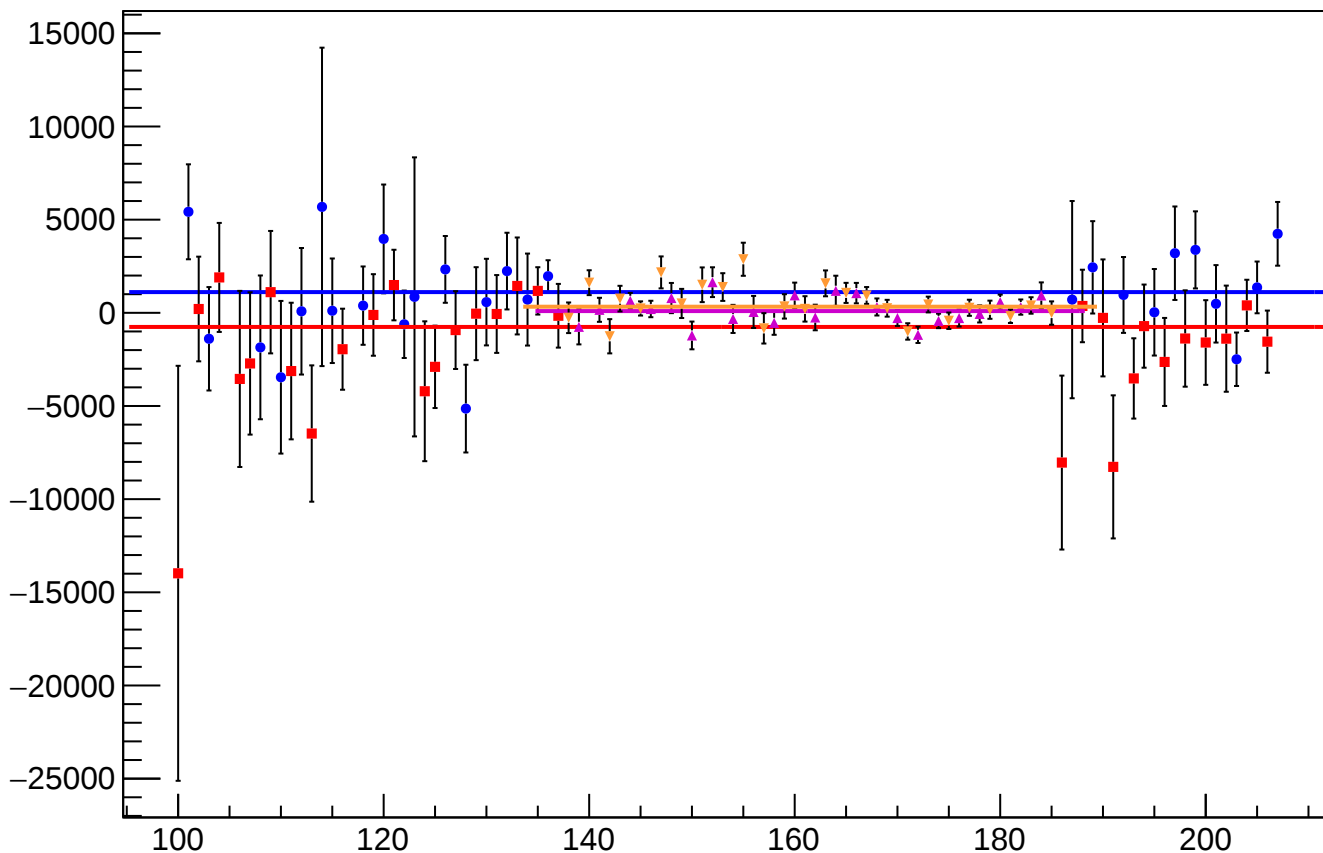
Right: 1451.279+/-0.202 χ^2/NDF : 5846239.7/57

In: 509.177+/-0.075 χ^2/NDF : 15948915.1/49

Out: 510.710+/-0.074 χ^2/NDF : 18939530.7/55

All: 509.956+/-0.053 χ^2/NDF : 34888657.5/100

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1112.597 $\pm$ 396.935 χ^2 /NDF: 29.1/26

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -757.529 $\pm$ 417.405 χ^2 /NDF: 23.2/30

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF:33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

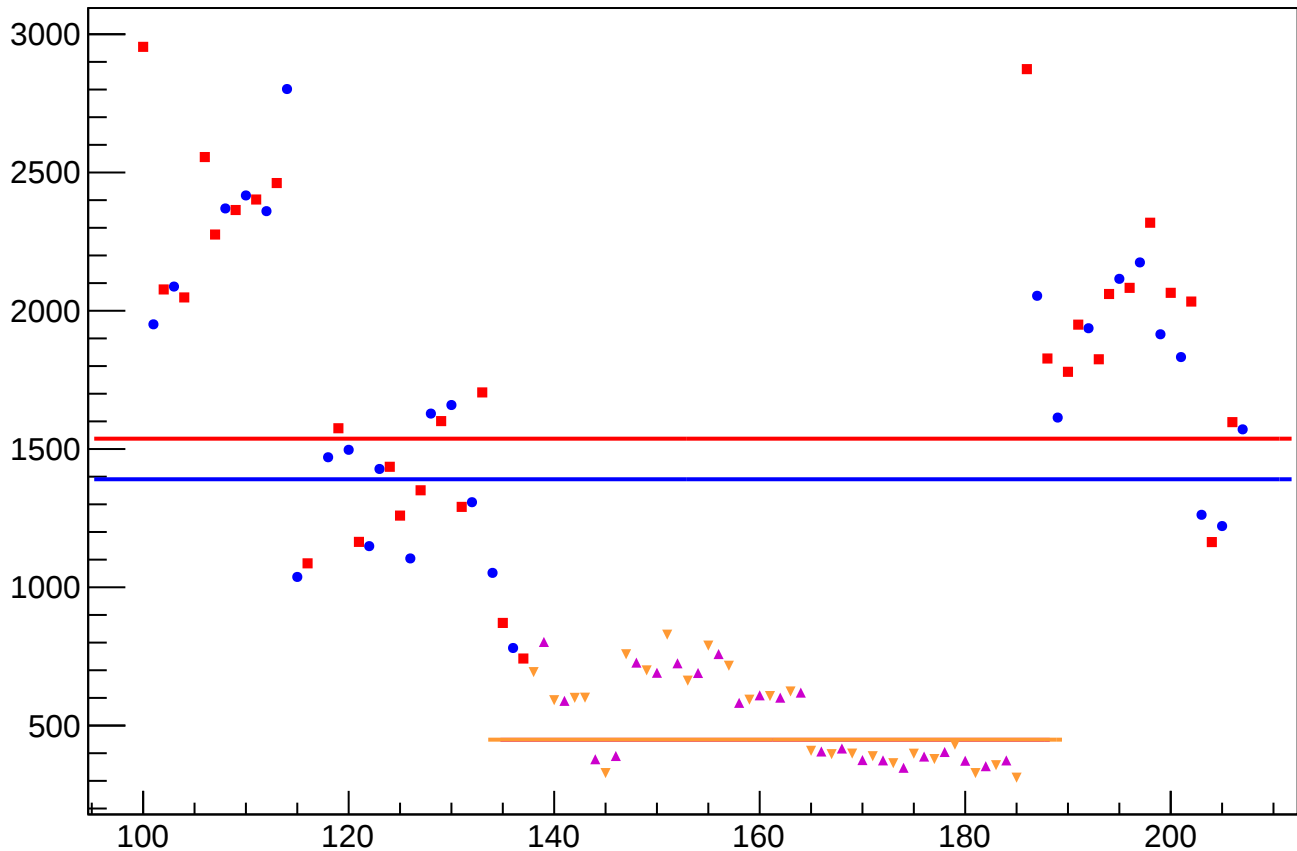
Right: 224.513 $\pm$ 287.640 χ^2 /NDF: 62.8/57

In: 168.427 $\pm$ 107.755 χ^2 /NDF:68.5/49

Out: 258.463 $\pm$ 106.068 χ^2 /NDF:77.2/55

All: 214.156 $\pm$ 75.591 χ^2 /NDF: 146.1/105

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1390.677 $\pm$ 0.281 χ^2 /NDF: 2794652.8/26

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF: 3090476.2/24

Right Out: 1537.452 $\pm$ 0.295 χ^2 /NDF: 2930493.4/30

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

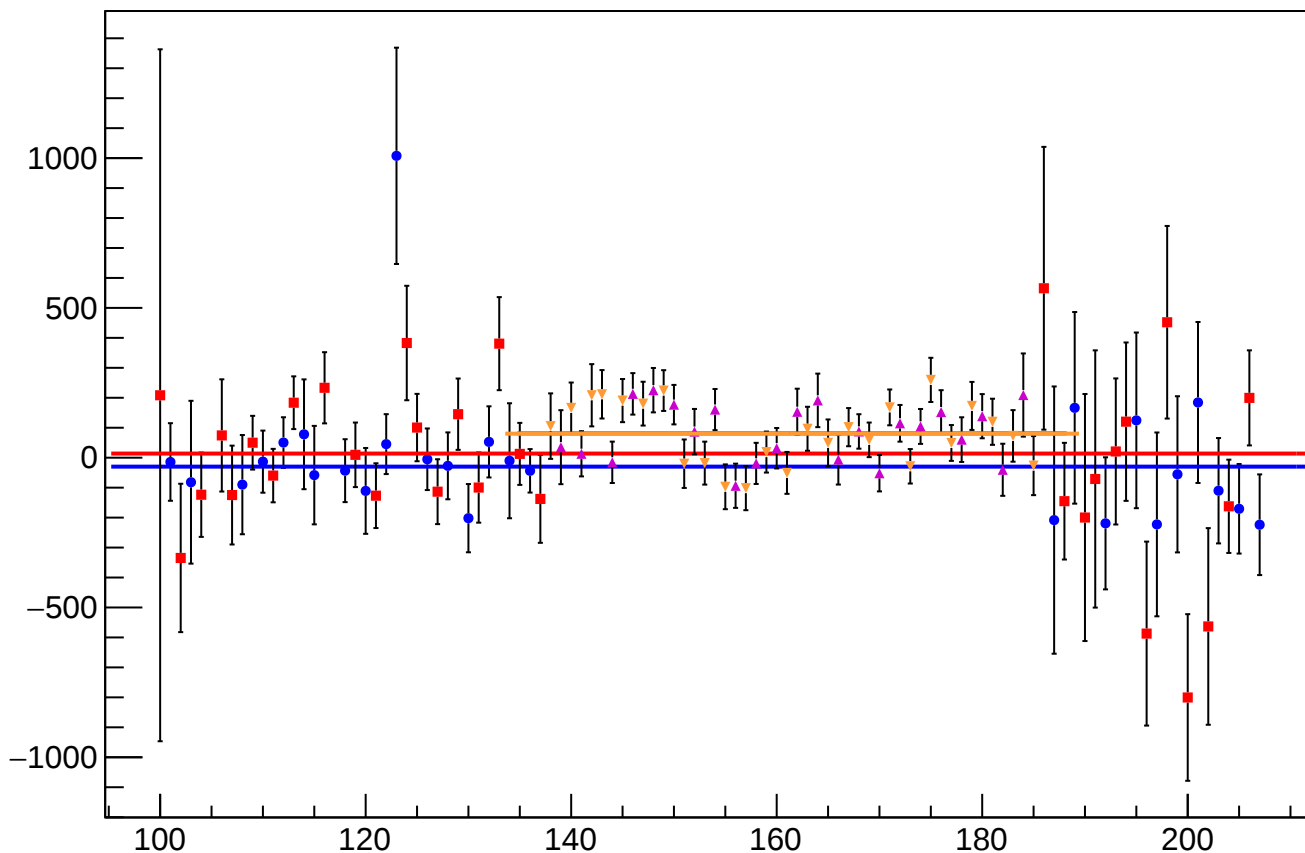
Right: 1460.378 $\pm$ 0.203 χ^2 /NDF: 5855007.8/57

In: 517.755 $\pm$ 0.076 χ^2 /NDF: 15774125.7/49

Out: 519.301 $\pm$ 0.075 χ^2 /NDF: 18742218.9/55

All: 518.540 $\pm$ 0.053 χ^2 /NDF: 34516553.6/100

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -29.832 ± 26.769 $\chi^2/\text{NDF}: 18.5/26$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 13.788 ± 26.102 $\chi^2/\text{NDF}: 50.5/30$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

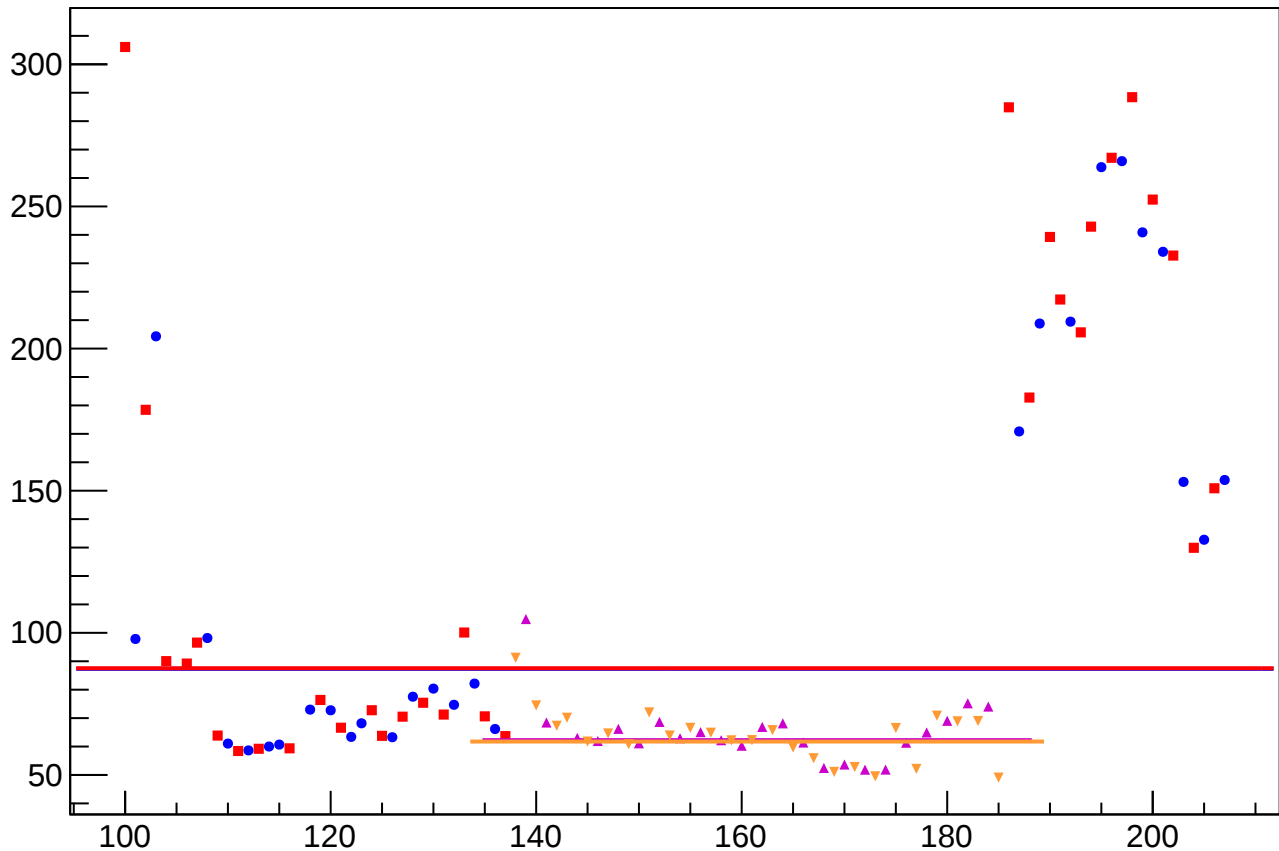
Right: -7.472 ± 18.688 $\chi^2/\text{NDF}: 70.4/57$

In: 54.350 ± 13.155 $\chi^2/\text{NDF}: 66.9/49$

Out: 64.364 ± 12.737 $\chi^2/\text{NDF}: 103.9/55$

All: 59.519 ± 9.151 $\chi^2/\text{NDF}: 171.1/105$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 87.339 $\pm$ 0.019 χ^2 /NDF: 5796328.5/26

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 87.536 $\pm$ 0.018 χ^2 /NDF: 6914230.5/30

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

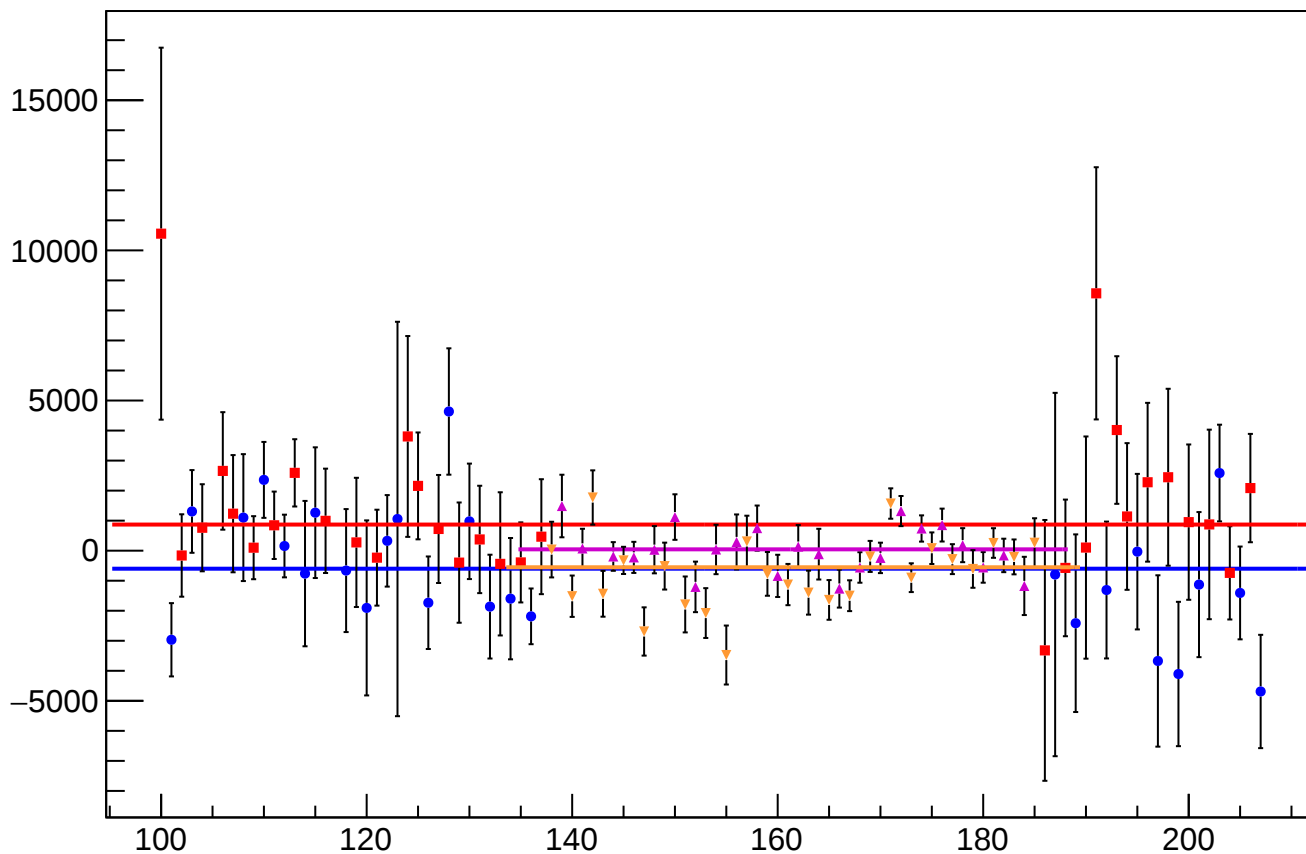
Right: 87.440 $\pm$ 0.013 χ^2 /NDF: 12710614.8/57

In: 68.309 $\pm$ 0.009 χ^2 /NDF: 7719930.5/49

Out: 67.899 $\pm$ 0.009 χ^2 /NDF: 9045632.7/55

All: 68.097 $\pm$ 0.006 χ^2 /NDF: 16766570.0/105

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -600.145+/-336.068 χ^2/NDF : 37.5/26

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 869.822+/-329.278 χ^2/NDF : 18.9/30

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

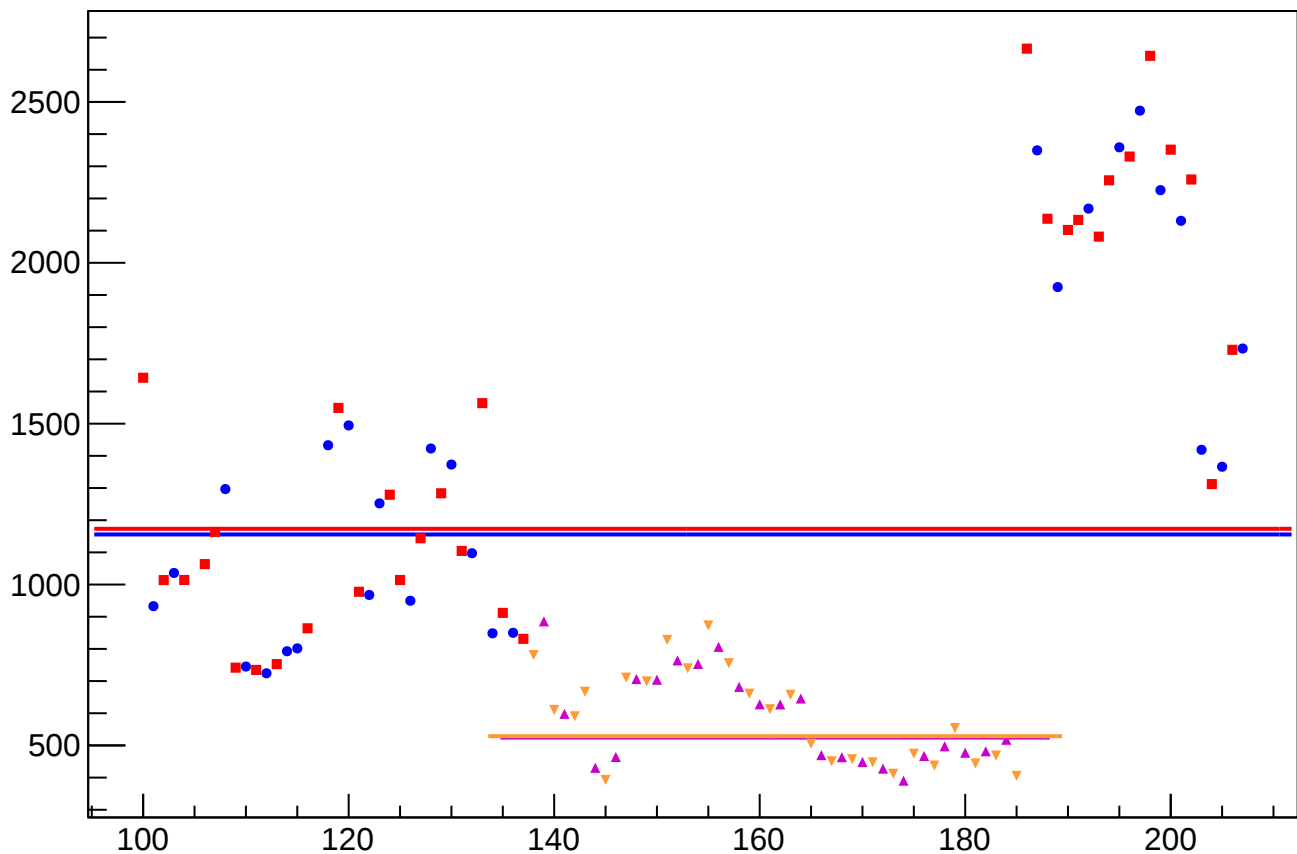
Right: 149.837+/-235.199 χ^2/NDF : 66.2/57

In: -38.323+/-120.509 χ^2/NDF : 70.3/49

Out: -368.374+/-118.477 χ^2/NDF : 100.4/55

All: -206.156+/-84.485 χ^2/NDF : 174.5/105

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1155.678 $\pm$ 0.238 χ^2 /NDF: 3661579.8/26

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1173.294 $\pm$ 0.233 χ^2 /NDF: 4602221.2/30

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

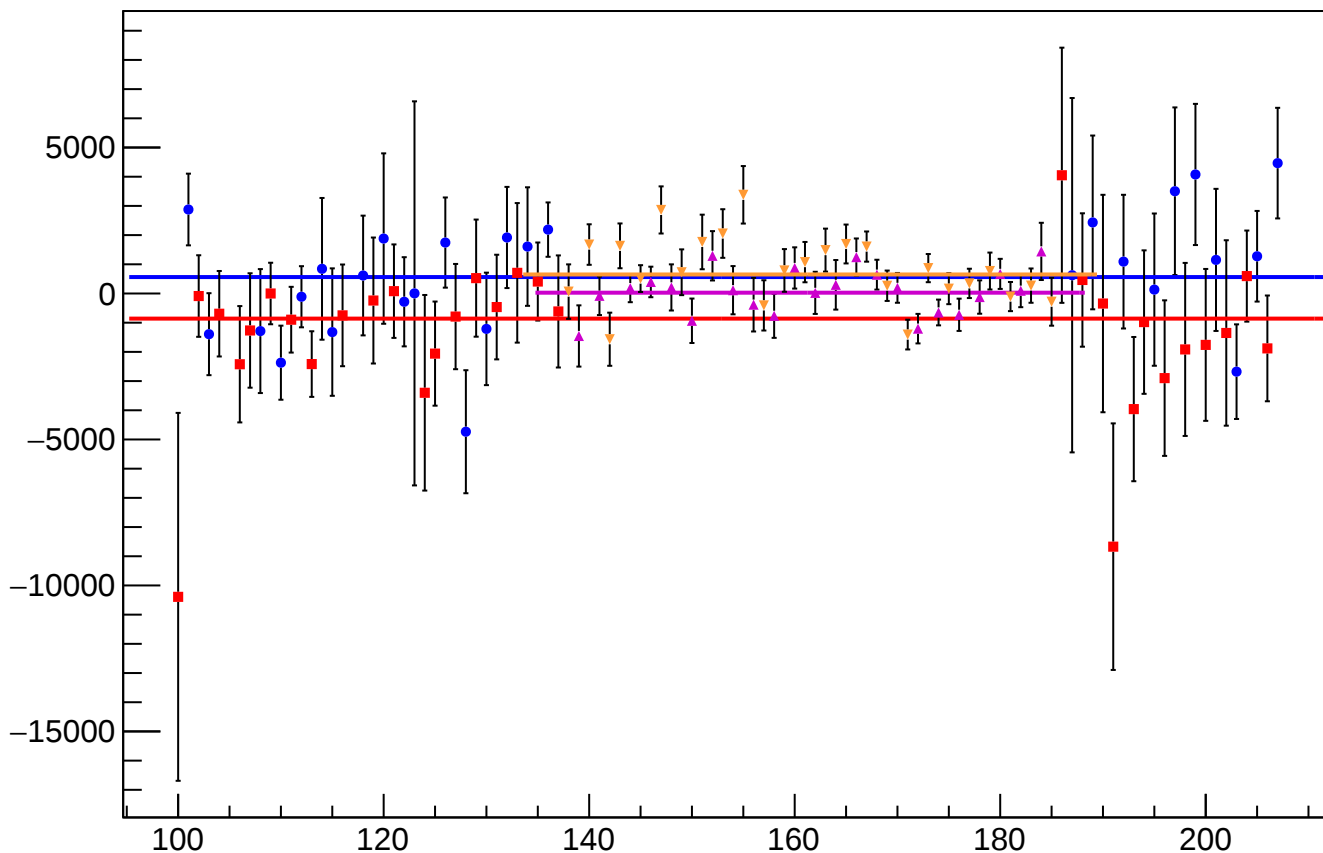
Right: 1164.665 $\pm$ 0.166 χ^2 /NDF: 8266604.6/57

In: 605.458 $\pm$ 0.085 χ^2 /NDF:11529951.5/49

Out: 612.181 $\pm$ 0.084 χ^2 /NDF:13257300.5/55

All: 608.876 $\pm$ 0.060 χ^2 /NDF: 24790417.8/10

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 562.821+/-337.677 χ^2/NDF : 37.1/26

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -860.229+/-330.970 χ^2/NDF : 17.8/30

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

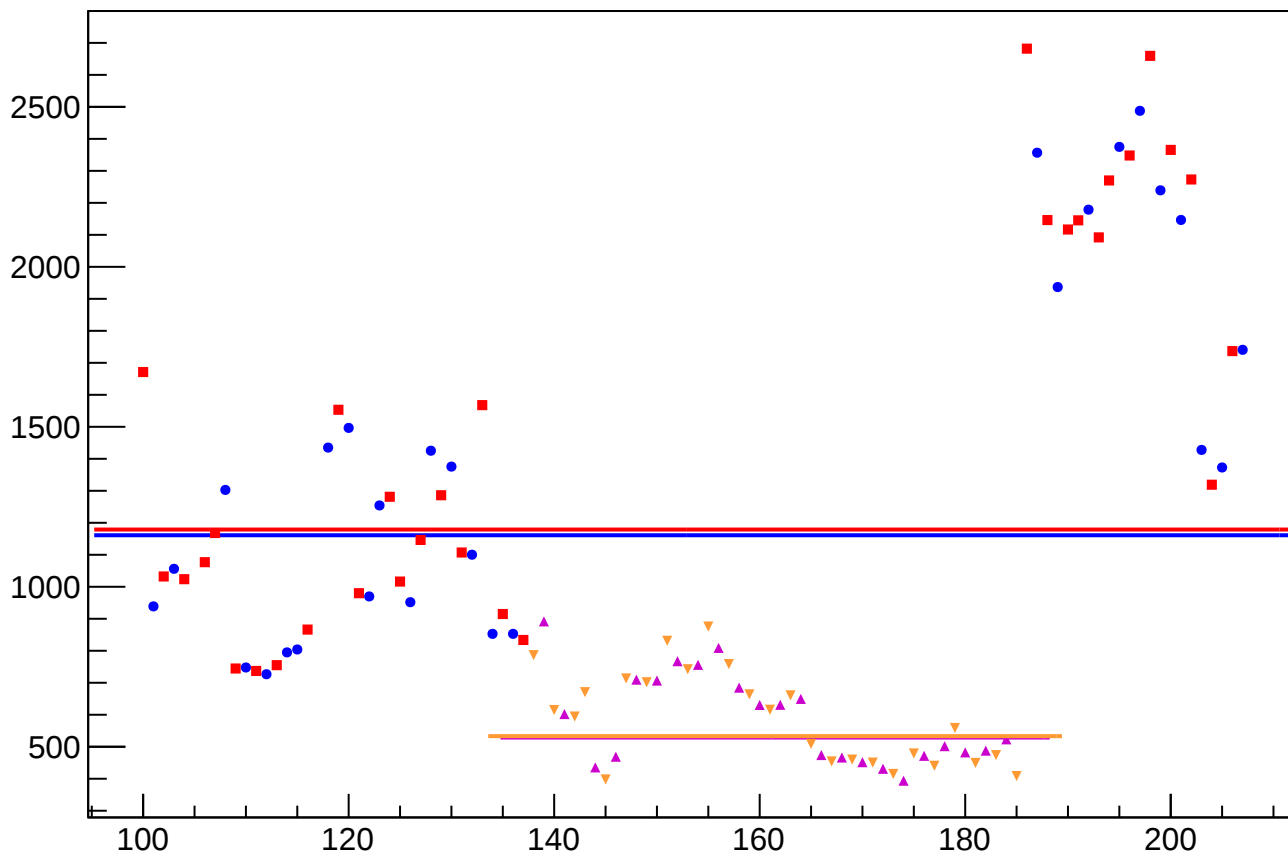
Right: -162.975+/-236.367 χ^2/NDF : 64.0/57

In: 96.703+/-121.423 χ^2/NDF : 67.8/49

Out: 454.967+/-119.351 χ^2/NDF : 97.1/55

All: 278.917+/-85.117 χ^2/NDF : 169.3/105

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1161.033 $\pm$ 0.239 χ^2 /NDF: 3669344.4/26

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1178.926 $\pm$ 0.234 χ^2 /NDF: 4612009.2/30

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF:1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

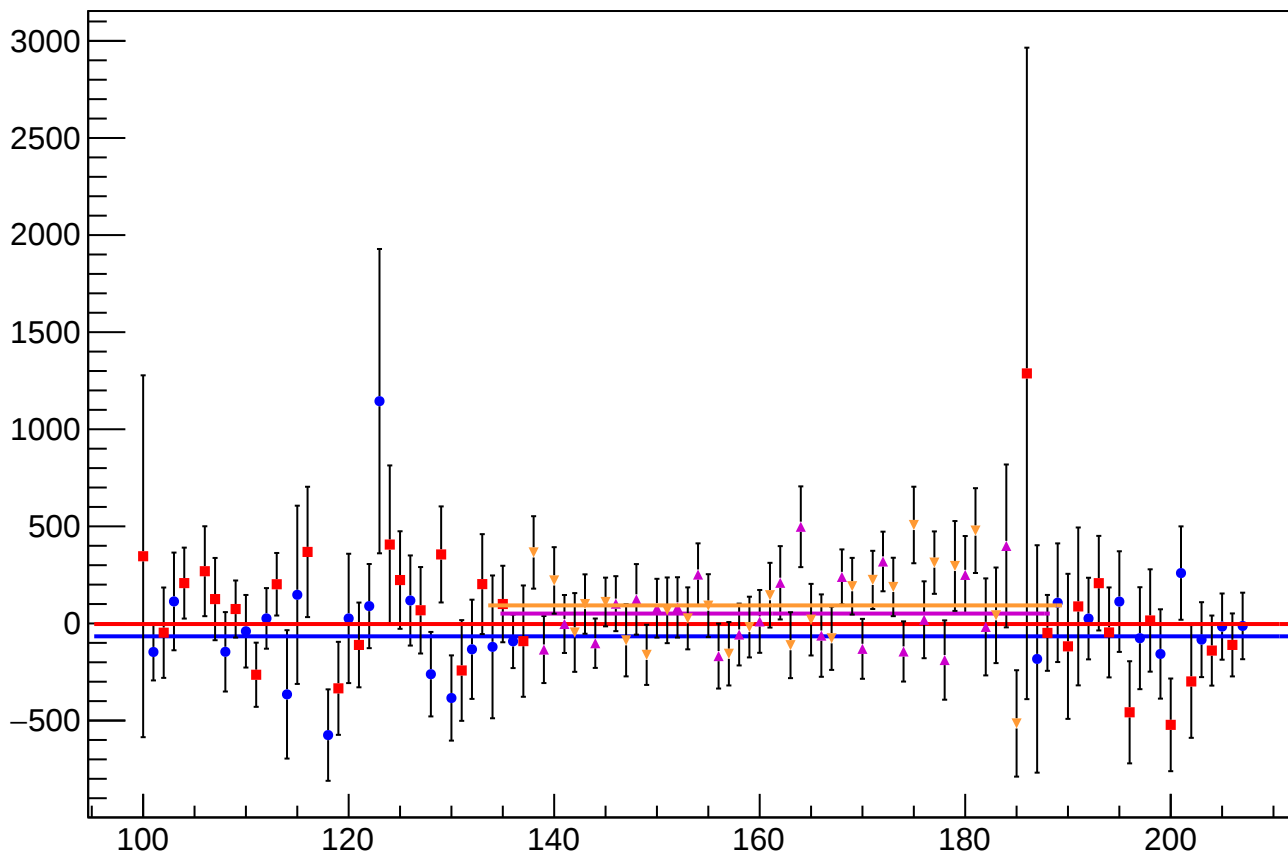
Right: 1170.159 $\pm$ 0.167 χ^2 /NDF: 8284217.4/57

In: 610.456 $\pm$ 0.086 χ^2 /NDF:11464422.1/49

Out: 617.049 $\pm$ 0.084 χ^2 /NDF:13189294.0/55

All: 613.809 $\pm$ 0.060 χ^2 /NDF: 24656714.9/10

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -66.311 ± 42.527 χ^2/NDF : 16.9/26

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -3.005 ± 41.242 χ^2/NDF : 28.3/30

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

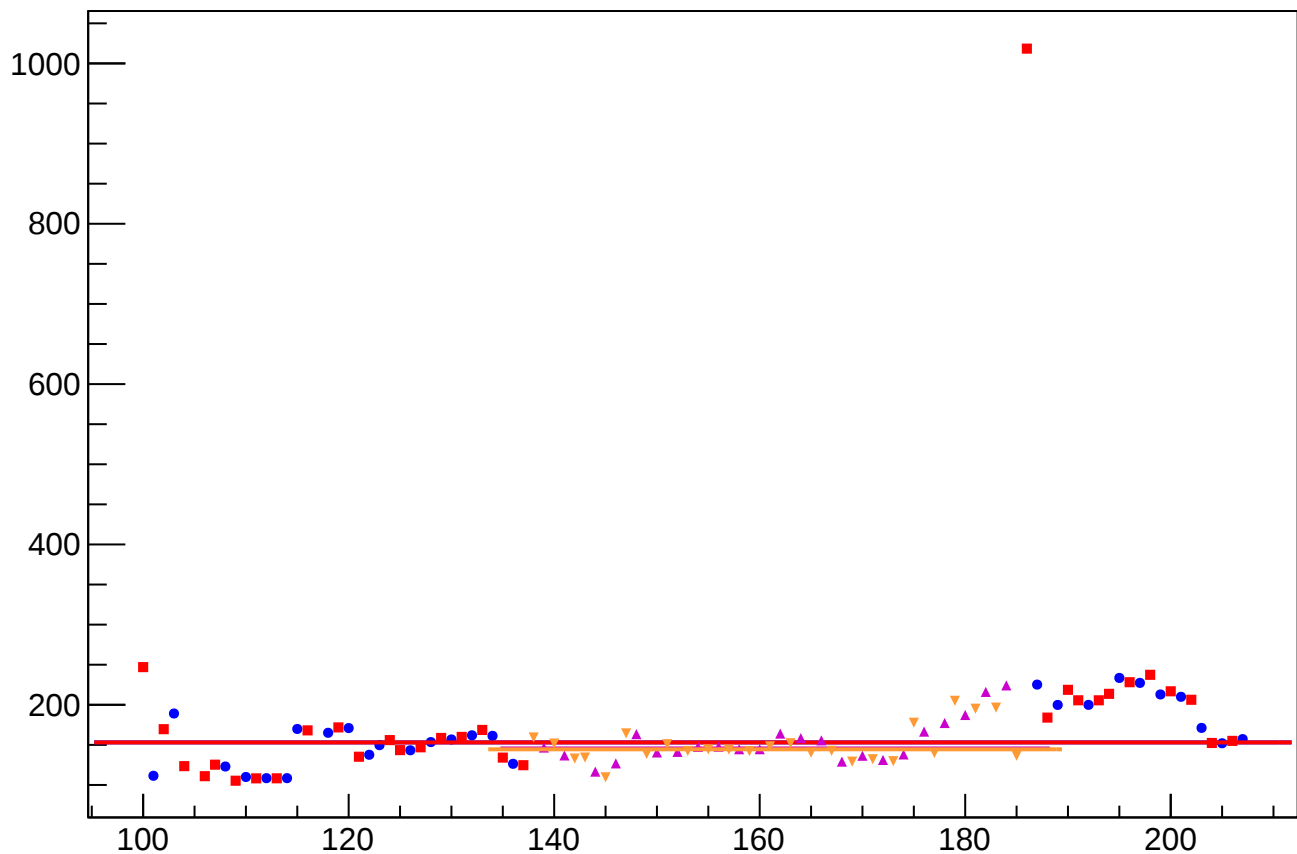
Right: -33.687 ± 29.606 χ^2/NDF : 46.3/57

In: 3.116 ± 27.153 χ^2/NDF : 44.8/49

Out: 54.076 ± 26.259 χ^2/NDF : 60.9/55

All: 29.449 ± 18.876 χ^2/NDF : 107.6/105

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 153.095+/-0.030 χ^2/NDF : 1453163.1/26

Left Out: 144.475+/-0.024 χ^2/NDF : 670488.7/24

Right Out: 153.056+/-0.029 χ^2/NDF : 2263971.0/30

Left In: 145.535+/-0.025 χ^2/NDF : 643529.3/22

Left: 144.986+/-0.017 χ^2/NDF : 1314951.6/47

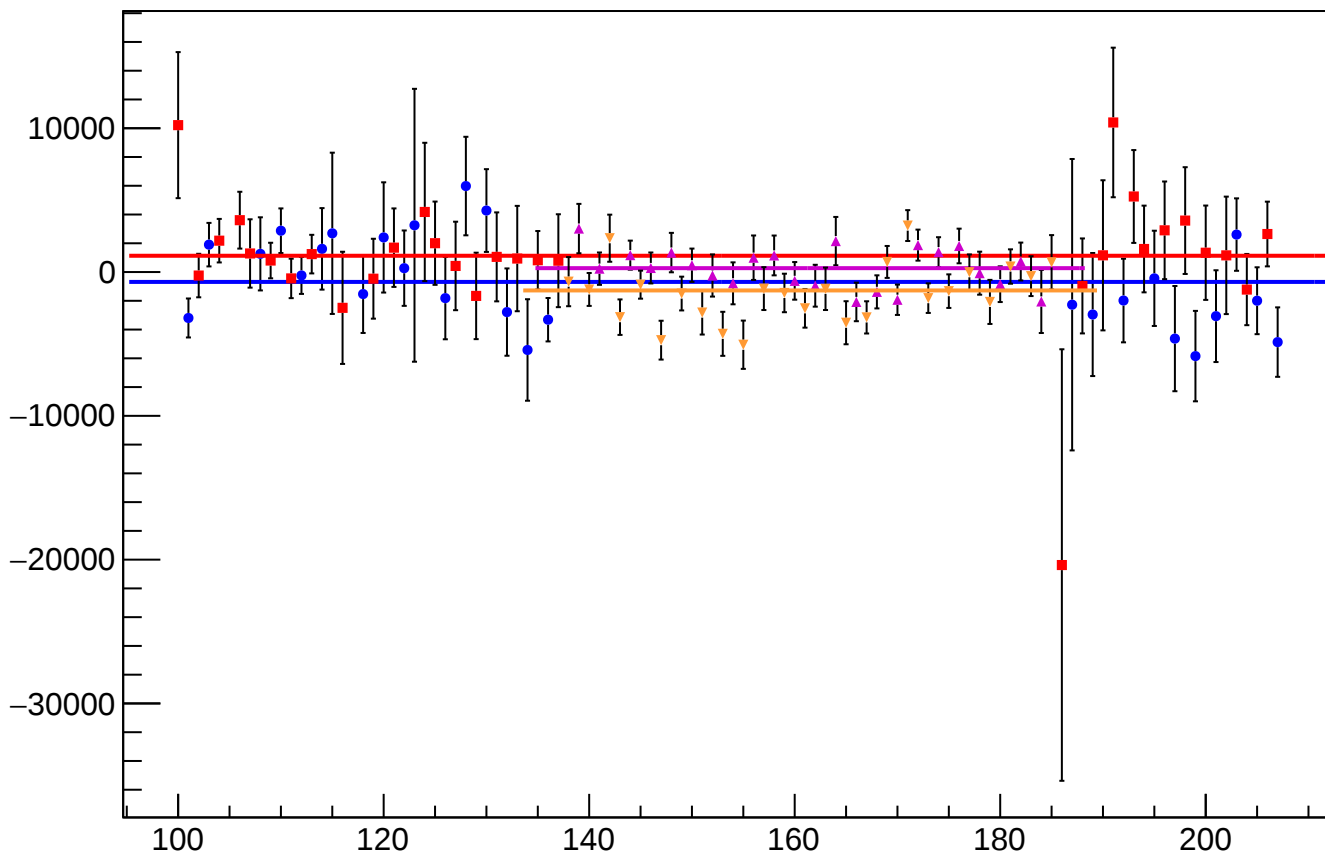
Right: 153.075+/-0.021 χ^2/NDF : 3717135.0/57

In: 148.617+/-0.019 χ^2/NDF : 2134137.5/49

Out: 147.954+/-0.019 χ^2/NDF : 2985938.6/55

All: 148.274+/-0.013 χ^2/NDF : 5120692.2/105

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -686.711+/-461.687 χ^2/NDF : 36.6/26

Left Out: -1279.328+/-259.299 χ^2/NDF : 55.9/24

Right Out: 1132.512+/-431.919 χ^2/NDF : 19.5/30

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

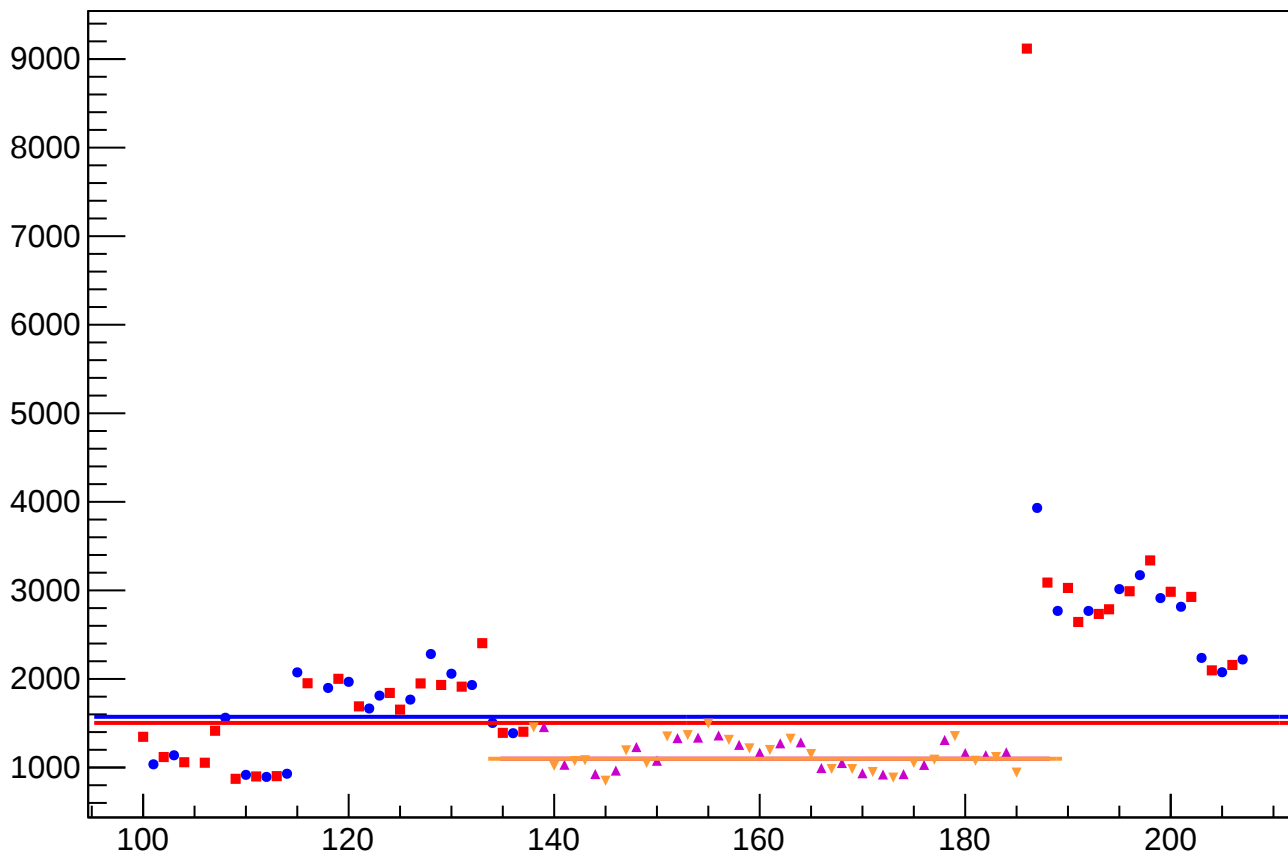
Right: 283.435+/-315.412 χ^2/NDF : 64.4/57

In: 31.203+/-230.642 χ^2/NDF : 64.1/49

Out: -640.365+/-222.313 χ^2/NDF : 98.4/55

All: -316.925+/-160.063 χ^2/NDF : 166.8/105

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1572.422+/-0.326 χ^2/NDF : 4184545.7/26

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1503.487+/-0.305 χ^2/NDF : 5784783.2/30

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

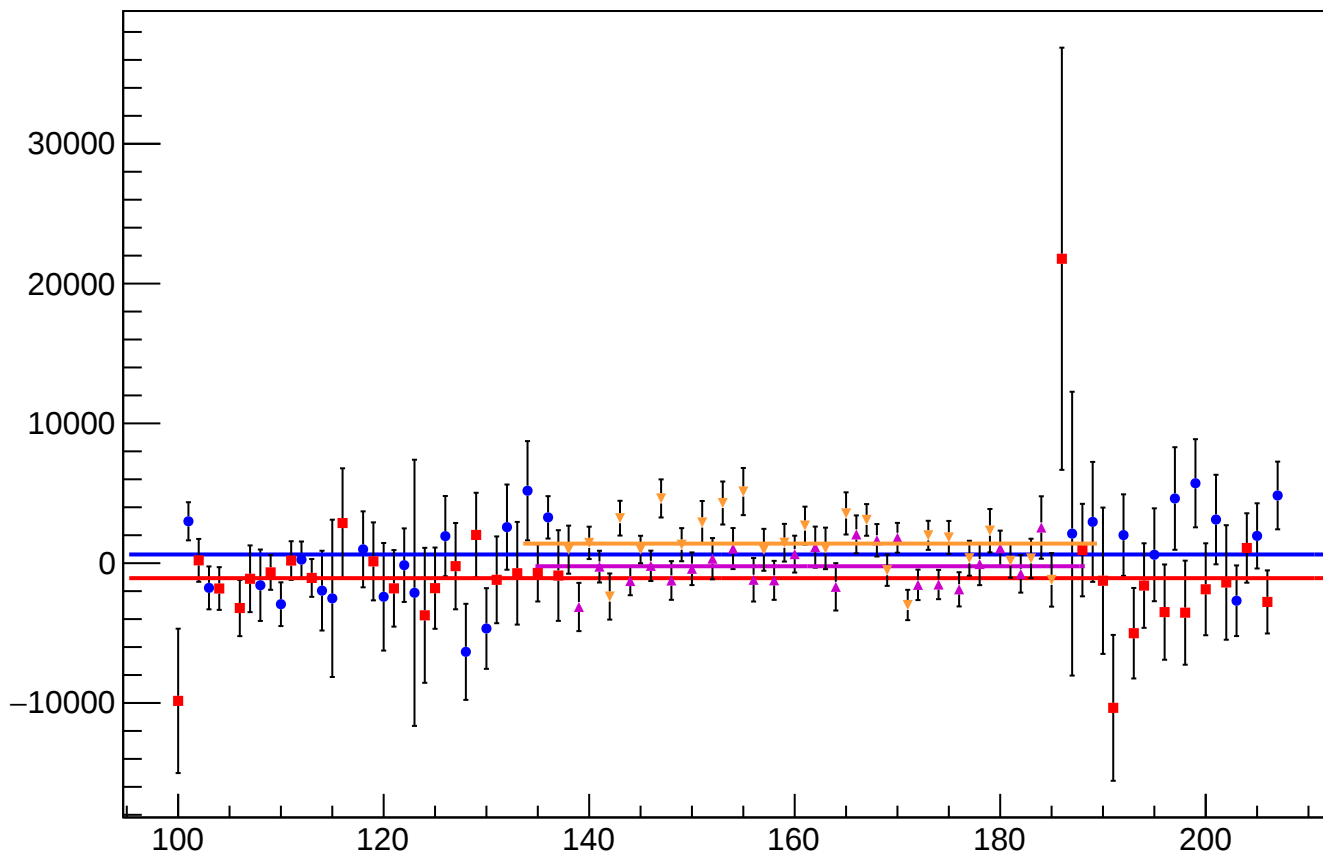
Right: 1535.661+/-0.223 χ^2/NDF : 9993106.1/57

In: 1217.588+/-0.163 χ^2/NDF : 6438683.7/49

Out: 1206.093+/-0.157 χ^2/NDF : 7899026.3/55

All: 1211.629+/-0.113 χ^2/NDF : 14340285.4/102

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 623.071+/-464.306 χ^2/NDF : 36.2/26

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1071.236+/-434.814 χ^2/NDF : 18.4/30

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

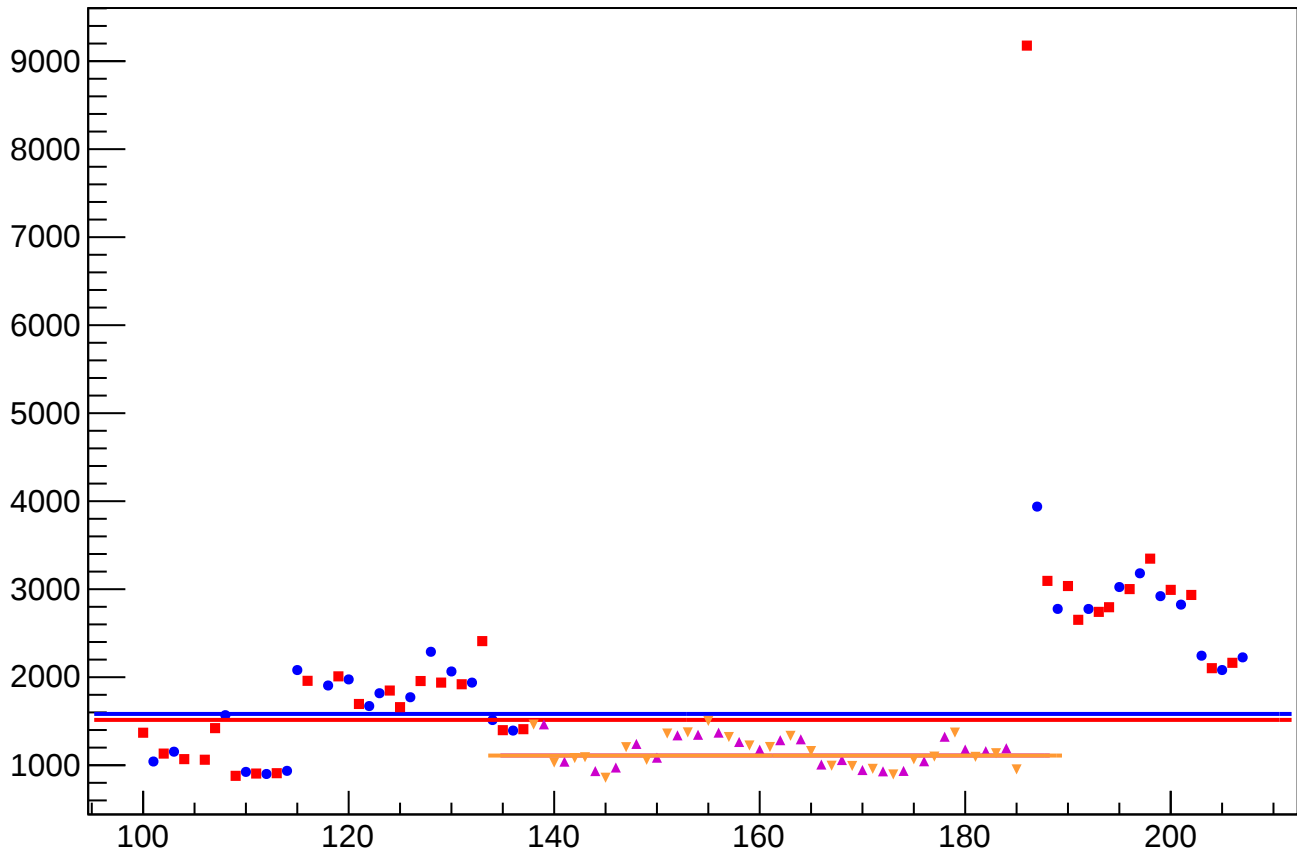
Right: -279.599+/-317.374 χ^2/NDF : 61.7/57

In: -7.852+/-232.662 χ^2/NDF : 63.7/49

Out: 742.809+/-224.286 χ^2/NDF : 94.3/55

All: 381.234+/-161.474 χ^2/NDF : 163.4/105

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1582.747 $\pm$ 0.328 χ^2/NDF : 4144632.1/26

Left Out: 1109.761 $\pm$ 0.185 χ^2/NDF : 812174.9/24

Right Out: 1514.885 $\pm$ 0.307 χ^2/NDF : 5733034.9/30

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

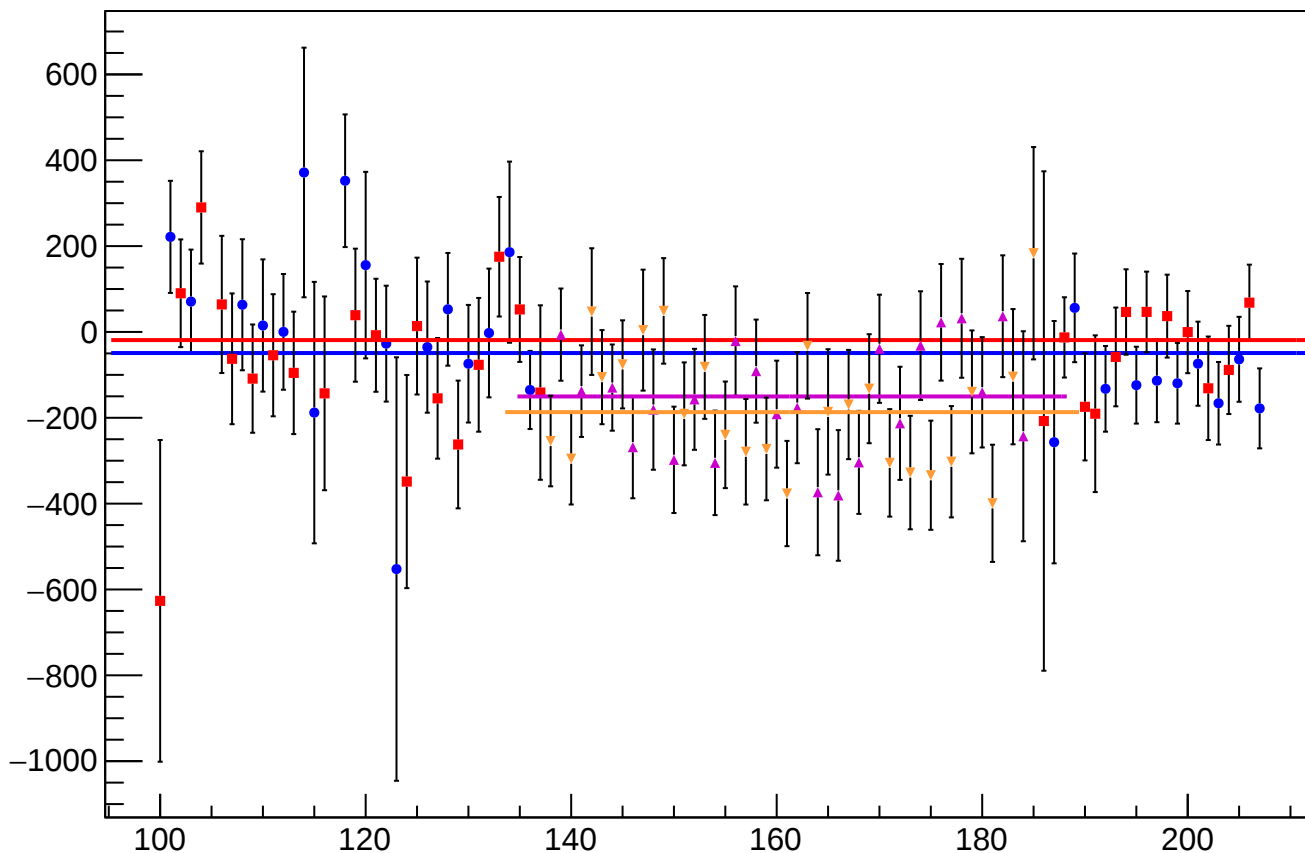
Right: 1546.593 $\pm$ 0.224 χ^2/NDF : 9900429.2/57

In: 1229.112 $\pm$ 0.165 χ^2/NDF : 6363763.8/49

Out: 1217.554 $\pm$ 0.159 χ^2/NDF : 7819453.5/55

All: 1223.121 $\pm$ 0.114 χ^2/NDF : 14185775.6/100

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -49.153 ± 24.232 χ^2/NDF : 27.1/26

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: -18.950 ± 23.338 χ^2/NDF : 25.1/30

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

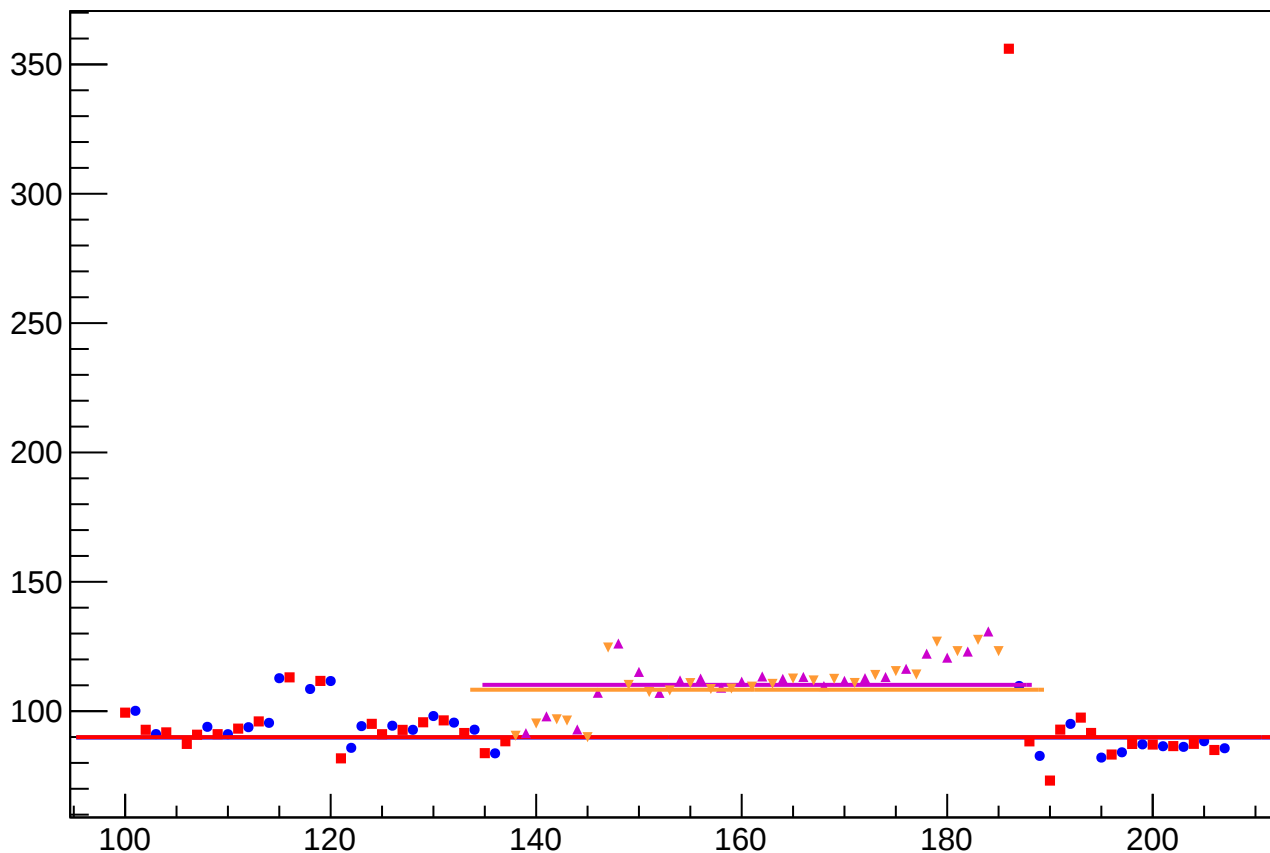
Right: -33.484 ± 16.810 χ^2/NDF : 53.0/57

In: -95.325 ± 17.866 χ^2/NDF : 55.8/49

Out: -96.108 ± 17.157 χ^2/NDF : 75.4/55

All: -95.732 ± 12.375 χ^2/NDF : 131.2/105

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.812 $\pm$ 0.017 χ^2 /NDF: 157257.2/26

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.962 $\pm$ 0.017 χ^2 /NDF: 577458.9/30

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

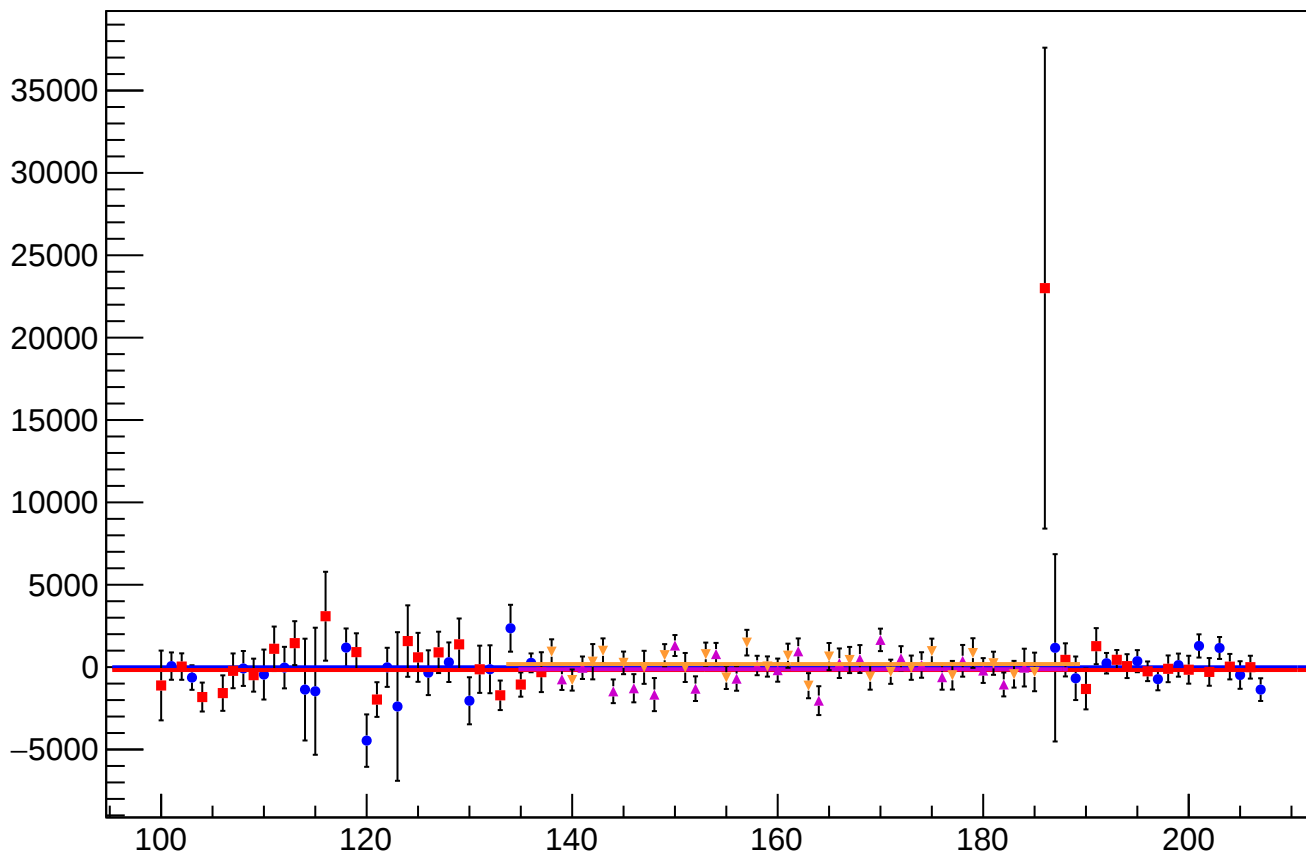
Right: 89.890 $\pm$ 0.012 χ^2 /NDF: 734756.2/57

In: 99.105 $\pm$ 0.013 χ^2 /NDF: 1048724.8/49

Out: 98.384 $\pm$ 0.012 χ^2 /NDF: 1474825.7/55

All: 98.730 $\pm$ 0.009 χ^2 /NDF: 2525244.5/105

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -10.001 ± 181.270 χ^2/NDF : 28.0/26

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -176.691 ± 174.563 χ^2/NDF : 27.1/30

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

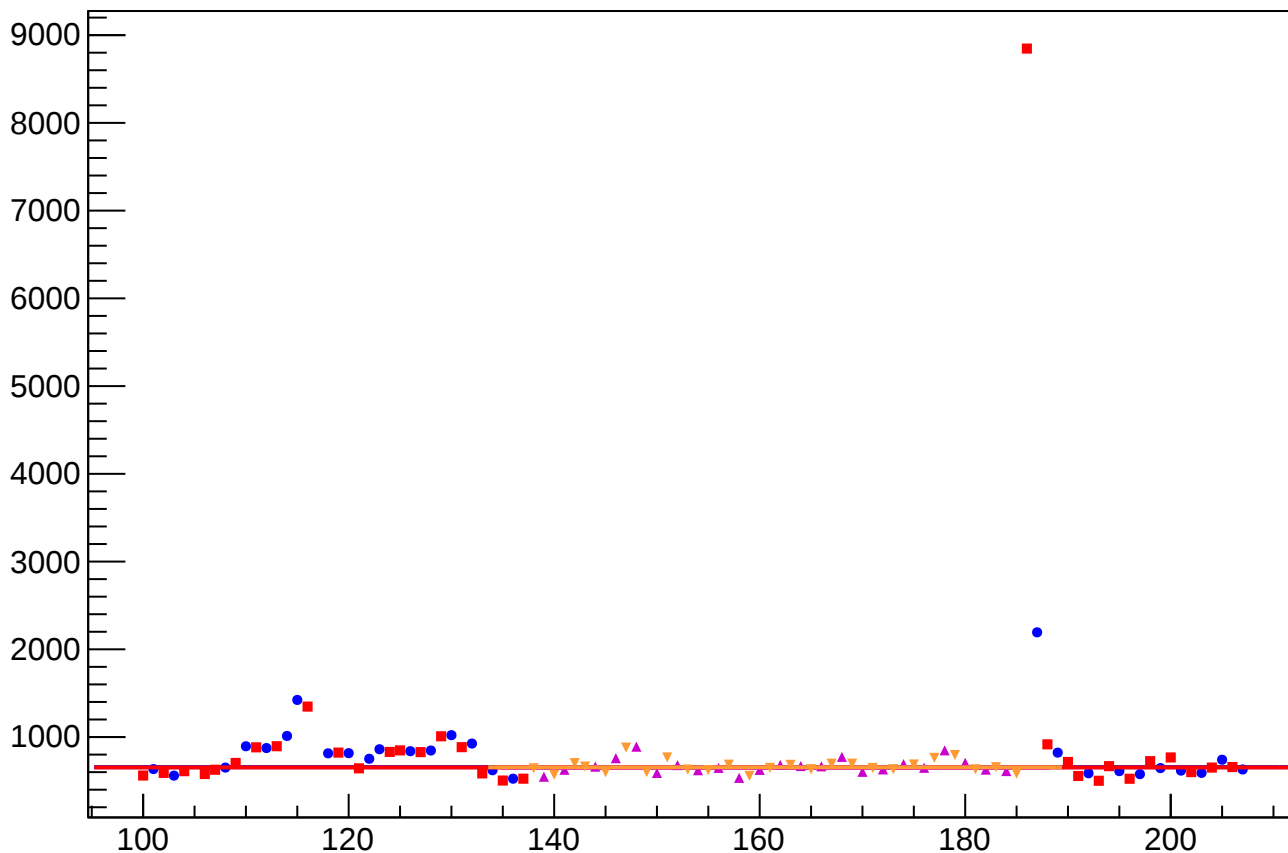
Right: -96.487 ± 125.739 χ^2/NDF : 55.6/57

In: -77.813 ± 118.743 χ^2/NDF : 64.5/49

Out: 27.290 ± 115.350 χ^2/NDF : 47.9/55

All: -23.738 ± 82.738 χ^2/NDF : 112.8/105

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.901 $\pm$ 0.128 χ^2 /NDF: 1003762.9/26

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.894 $\pm$ 0.123 χ^2 /NDF: 1765691.0/30

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

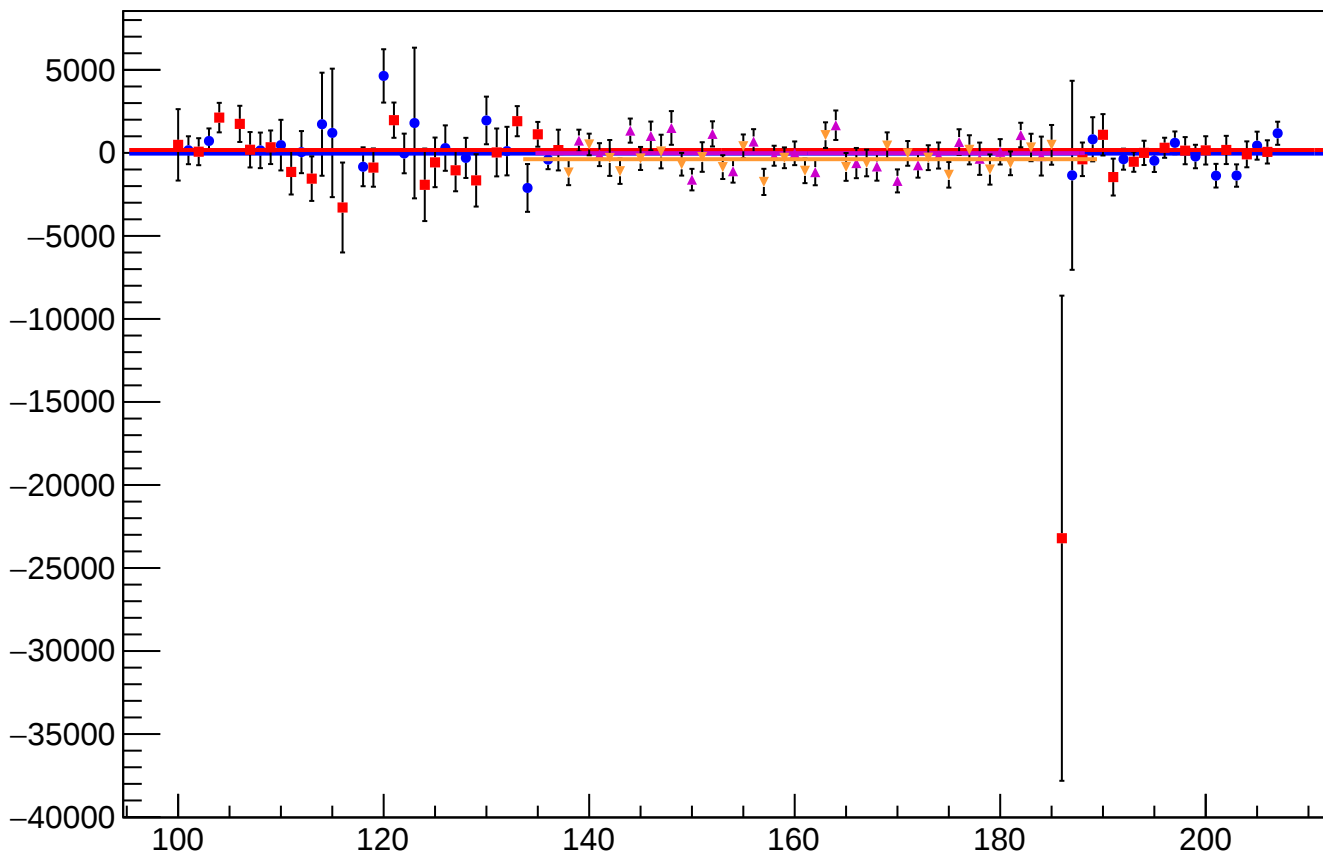
Right: 655.341 $\pm$ 0.089 χ^2 /NDF: 2769739.5/57

In: 653.465 $\pm$ 0.084 χ^2 /NDF: 1471138.1/49

Out: 654.604 $\pm$ 0.082 χ^2 /NDF: 2133099.6/55

All: 654.051 $\pm$ 0.059 χ^2 /NDF: 3604332.4/105

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -42.767 ± 183.115 χ^2/NDF : 28.1/26

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 173.469 ± 176.443 χ^2/NDF : 30.8/30

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

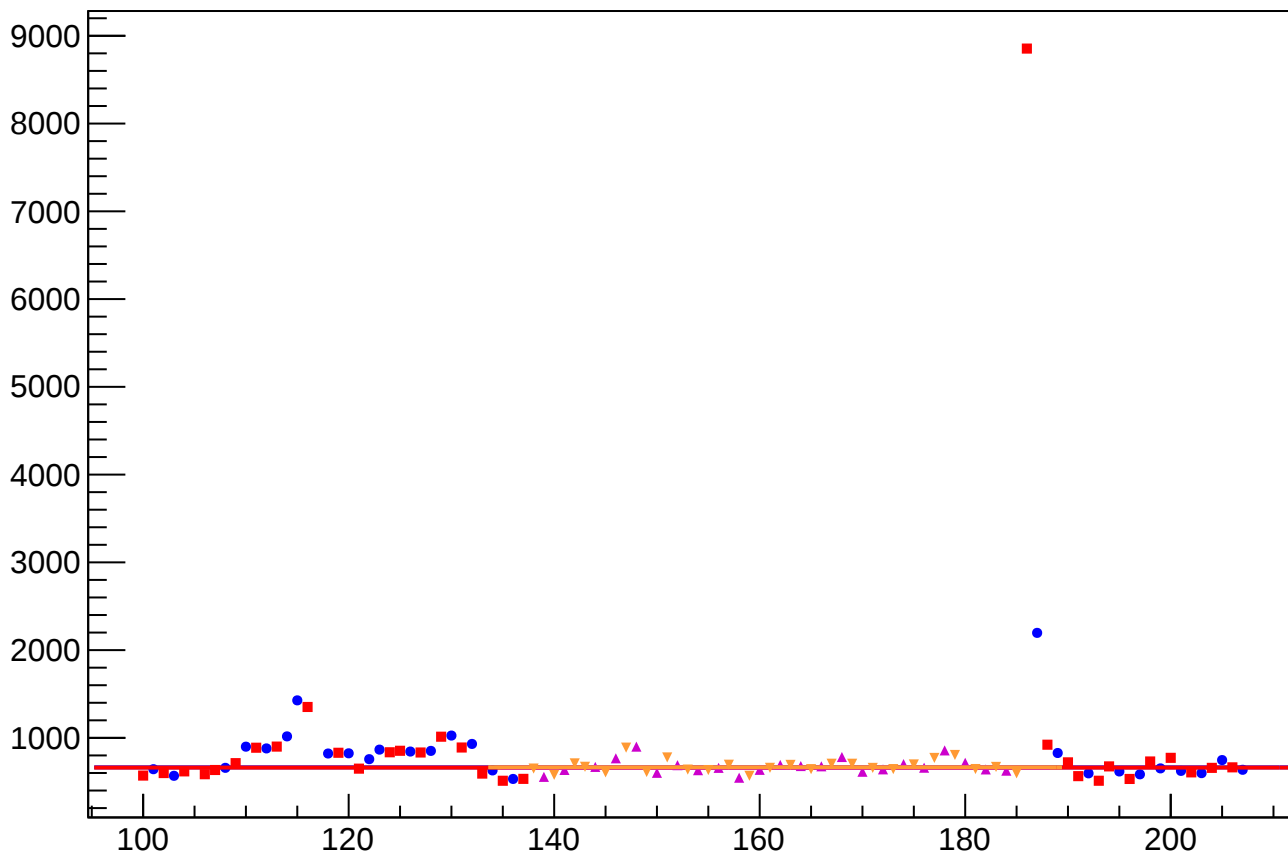
Right: 69.362 ± 127.057 χ^2/NDF : 59.7/57

In: -26.848 ± 120.278 χ^2/NDF : 65.4/49

Out: -137.062 ± 116.826 χ^2/NDF : 55.2/55

All: -83.559 ± 83.802 χ^2/NDF : 120.9/105

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 664.004 $\pm$ 0.129 χ^2 /NDF: 981546.1/26

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 661.527 $\pm$ 0.125 χ^2 /NDF: 1729280.3/30

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

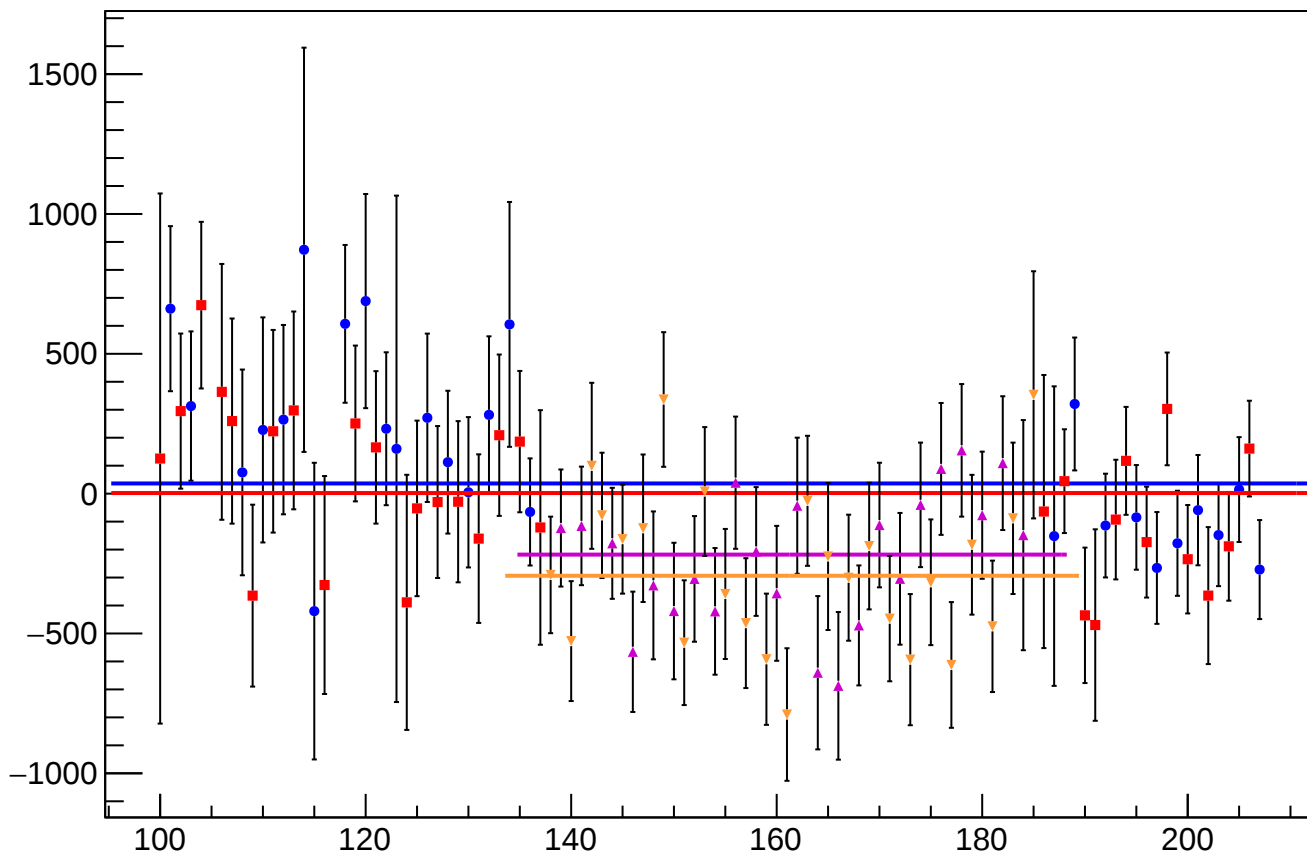
Right: 662.720 $\pm$ 0.090 χ^2 /NDF: 2711016.1/57

In: 662.234 $\pm$ 0.085 χ^2 /NDF: 1431054.9/49

Out: 663.350 $\pm$ 0.083 χ^2 /NDF: 2086714.1/55

All: 662.808 $\pm$ 0.059 χ^2 /NDF: 3517857.6/105

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 36.416 ± 48.741 χ^2/NDF : 29.8/26

Left Out: -293.590 ± 47.203 χ^2/NDF : 30.3/24

Right Out: 2.188 ± 47.565 χ^2/NDF : 28.1/30

Left In: -217.964 ± 48.819 χ^2/NDF : 21.3/22

Left: -257.050 ± 33.934 χ^2/NDF : 52.9/47

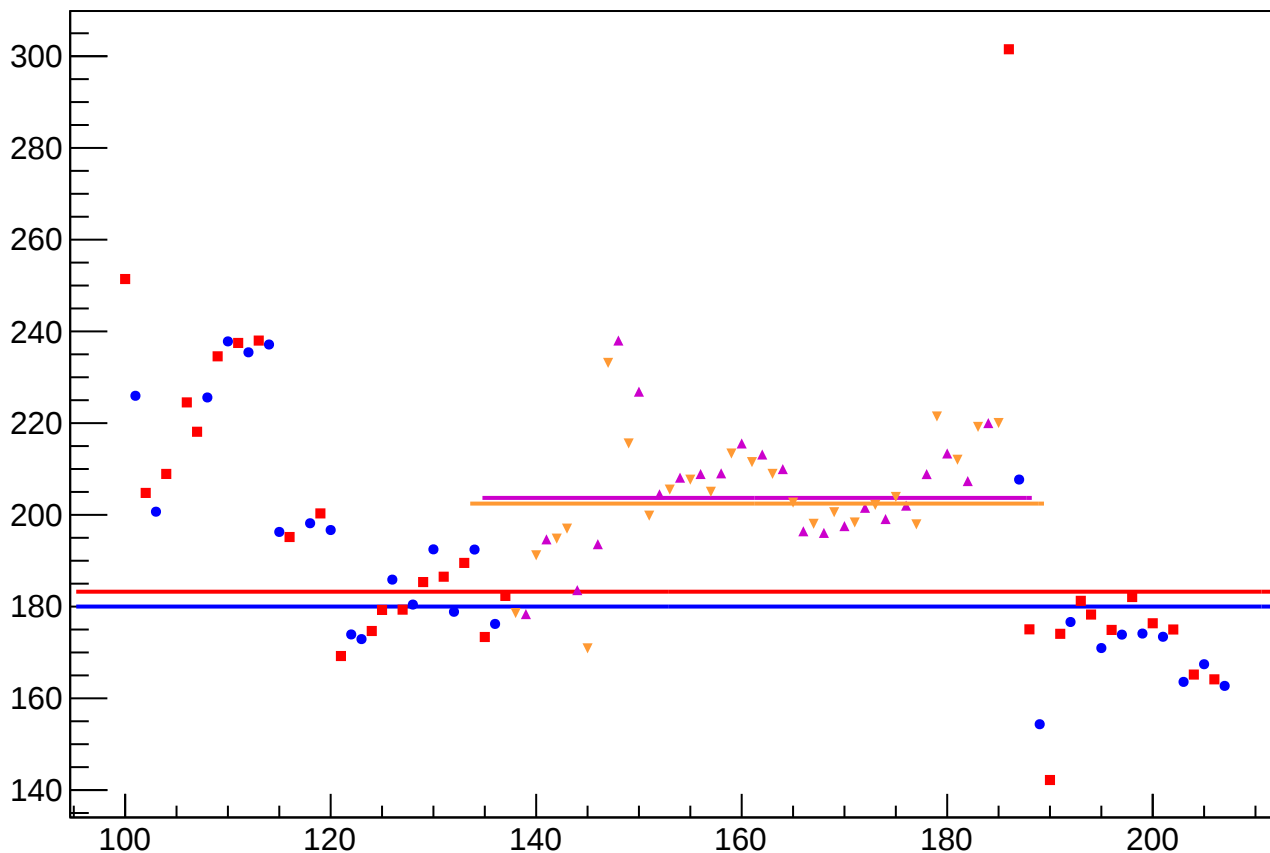
Right: 18.884 ± 34.042 χ^2/NDF : 58.2/57

In: -90.572 ± 34.493 χ^2/NDF : 64.7/49

Out: -146.830 ± 33.505 χ^2/NDF : 77.9/55

All: -119.518 ± 24.033 χ^2/NDF : 144.0/105

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 180.010 $\pm$ 0.034 χ^2 /NDF: 305555.0/26

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 183.249 $\pm$ 0.034 χ^2 /NDF: 466951.4/30

Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47

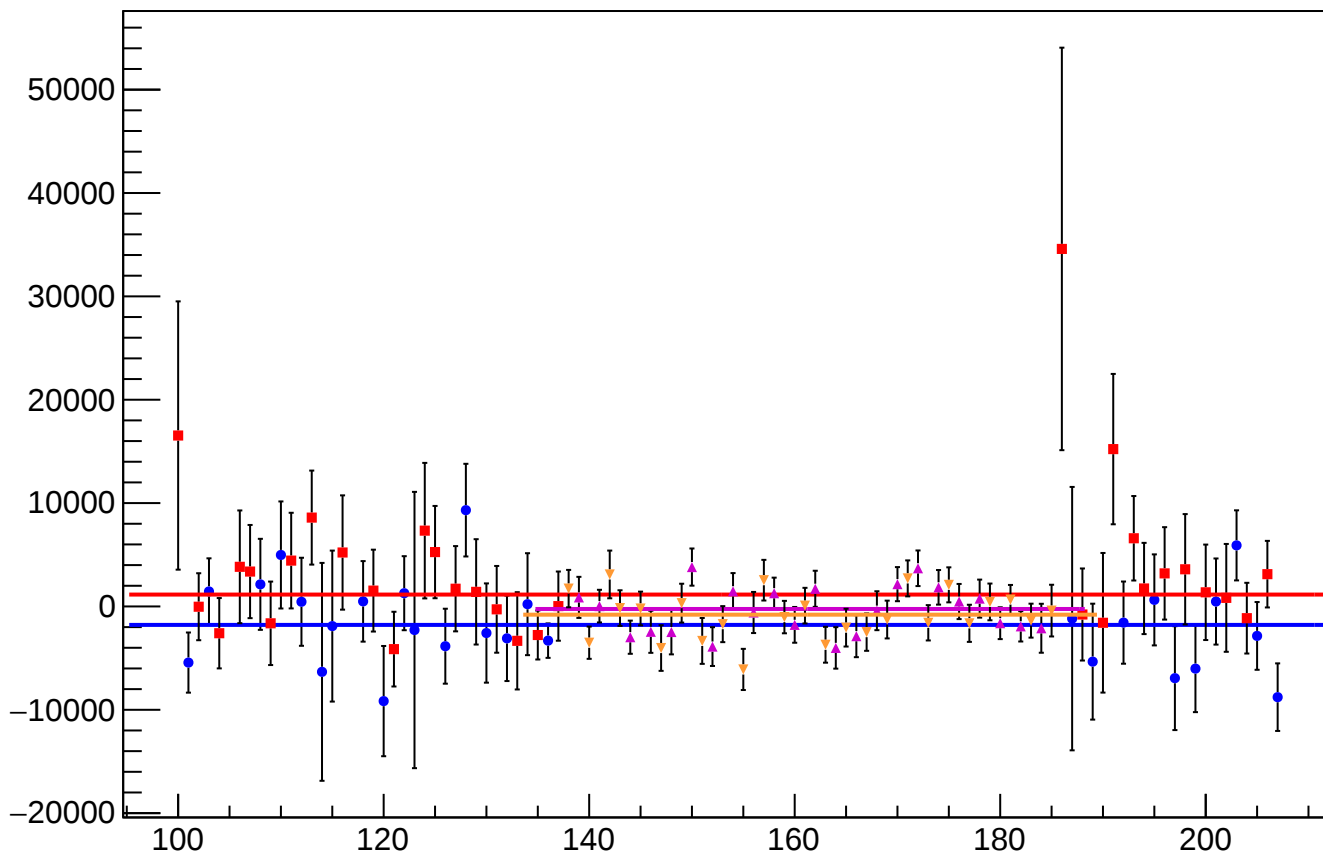
Right: 181.669 $\pm$ 0.024 χ^2 /NDF: 777030.2/57

In: 191.836 $\pm$ 0.024 χ^2 /NDF:677572.2/49

Out: 192.927 $\pm$ 0.024 χ^2 /NDF:789879.3/55

All: 192.397 $\pm$ 0.017 χ^2 /NDF: 1468482.2/105

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1786.420 ± 749.330 $\chi^2/\text{NDF}: 29.0/26$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1148.827 ± 767.923 $\chi^2/\text{NDF}: 25.3/30$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

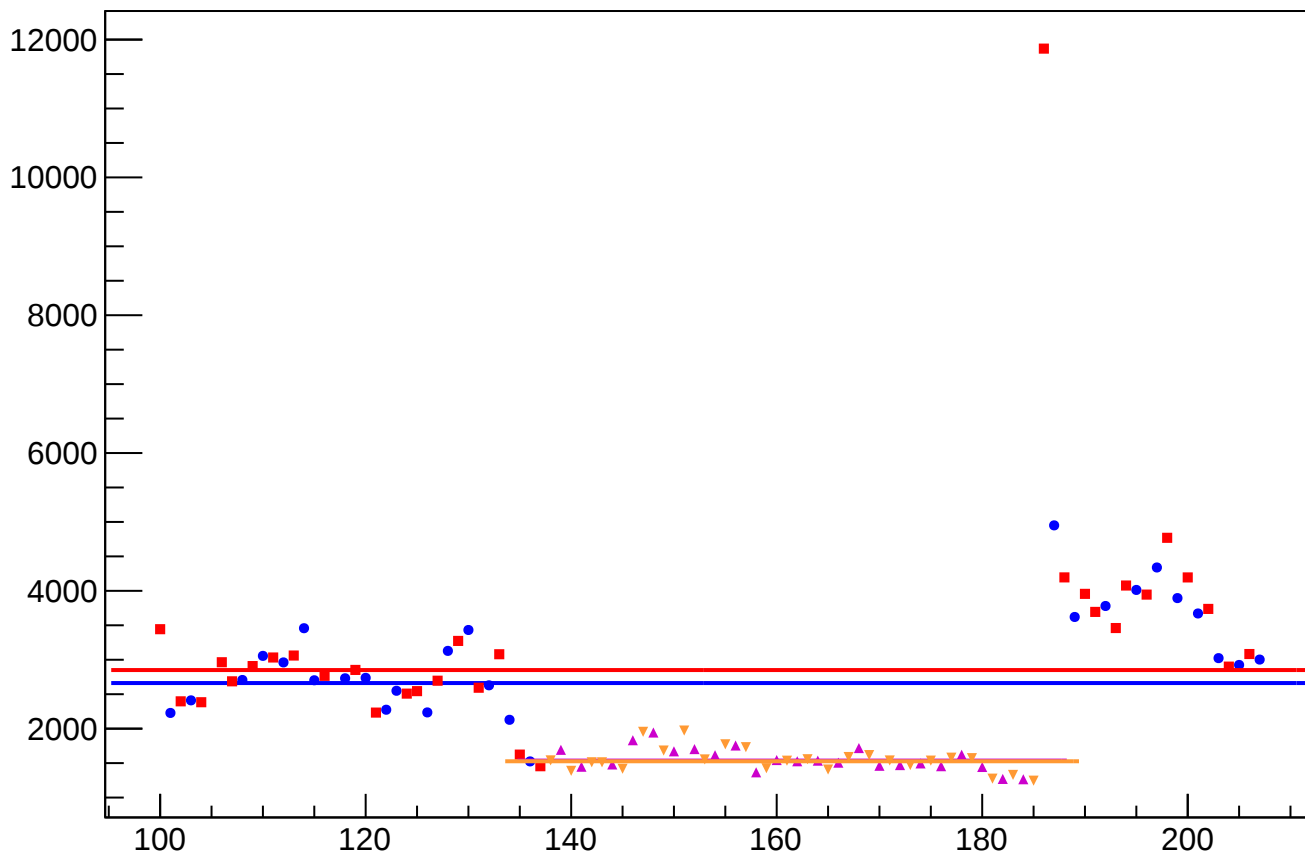
Right: -354.761 ± 536.309 $\chi^2/\text{NDF}: 61.8/57$

In: -547.030 ± 331.649 $\chi^2/\text{NDF}: 68.1/49$

Out: -449.454 ± 324.362 $\chi^2/\text{NDF}: 66.3/55$

All: -497.158 ± 231.892 $\chi^2/\text{NDF}: 134.5/105$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2661.882 $\pm$ 0.530 χ^2 /NDF: 2209061.6/26

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2850.468 $\pm$ 0.543 χ^2 /NDF: 2587175.3/30

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

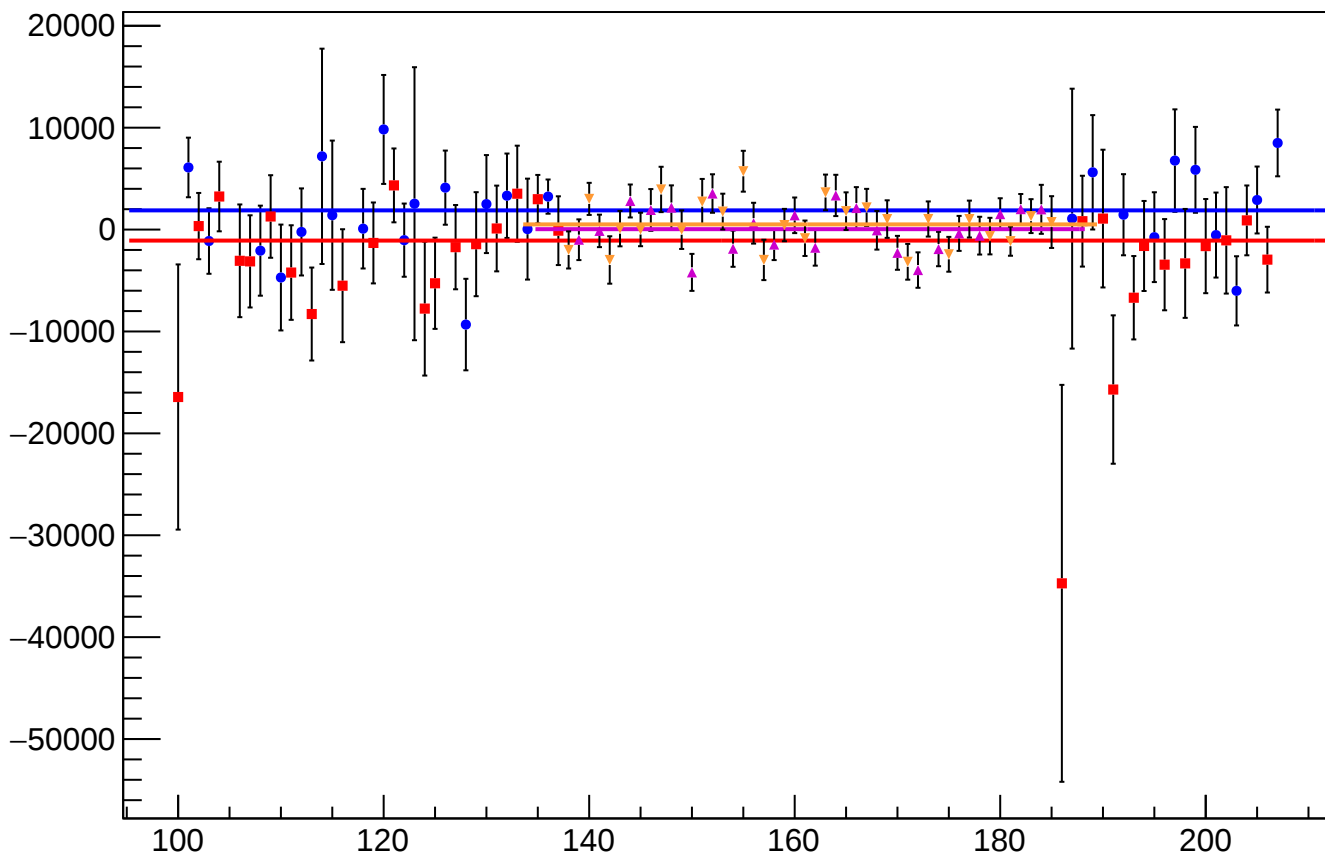
Right: 2753.865 $\pm$ 0.379 χ^2 /NDF: 4858023.7/57

In: 1756.981 $\pm$ 0.235 χ^2 /NDF: 6186624.2/49

Out: 1762.885 $\pm$ 0.229 χ^2 /NDF: 7864823.6/55

All: 1759.999 $\pm$ 0.164 χ^2 /NDF: 14051771.8/102

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1884.156+/-751.870 χ^2/NDF : 29.1/26

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1079.845+/-770.329 χ^2/NDF : 26.0/30

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

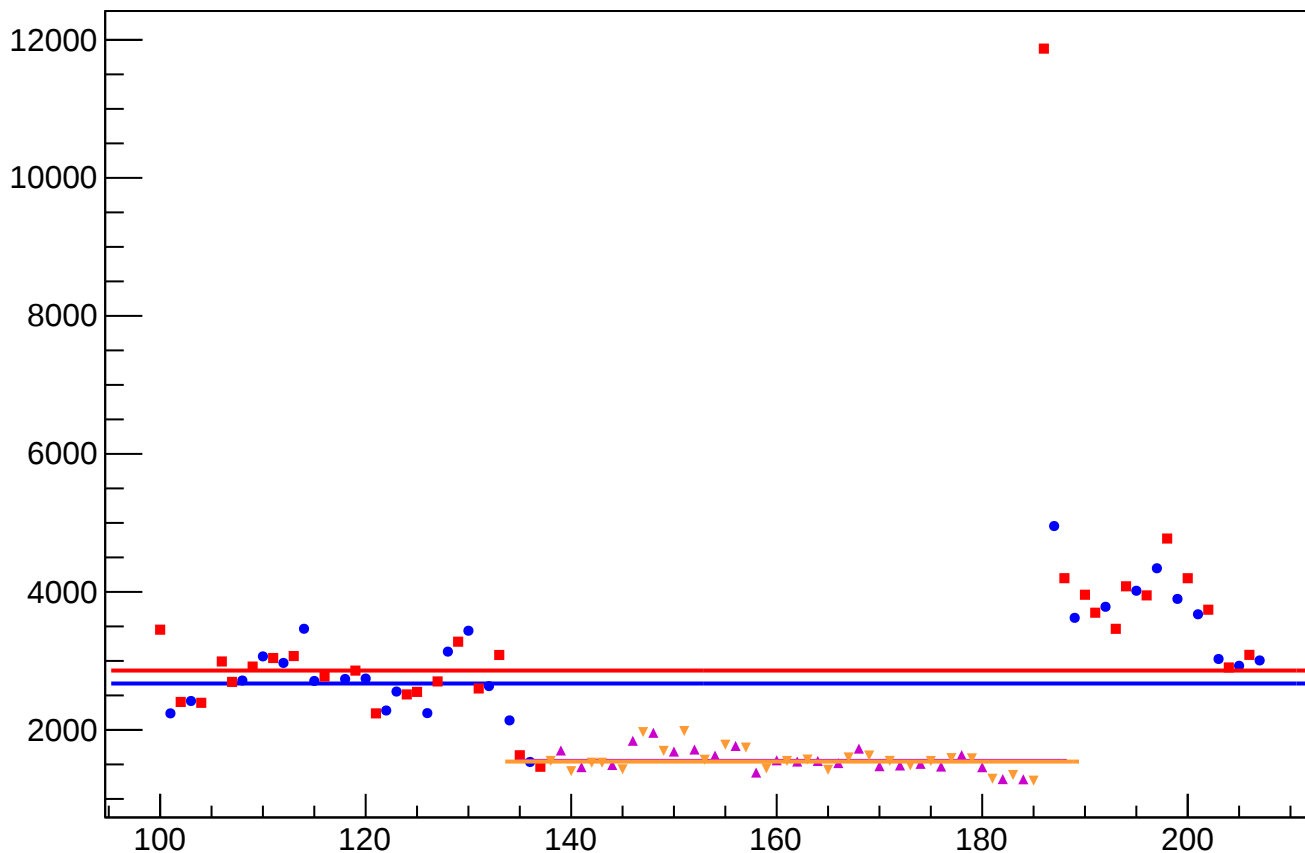
Right: 438.094+/-538.060 χ^2/NDF : 62.6/57

In: 404.701+/-334.329 χ^2/NDF : 67.5/49

Out: 221.839+/-327.014 χ^2/NDF : 64.8/55

All: 311.248+/-233.777 χ^2/NDF : 132.4/105

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2672.587 $\pm$ 0.532 χ^2/NDF : 2178817.6/26

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF :382045.4/24

Right Out: 2860.461 $\pm$ 0.545 χ^2/NDF : 2562073.5/30

Left In: 1551.063 $\pm$ 0.264 χ^2/NDF :338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2/NDF : 721657.1/47

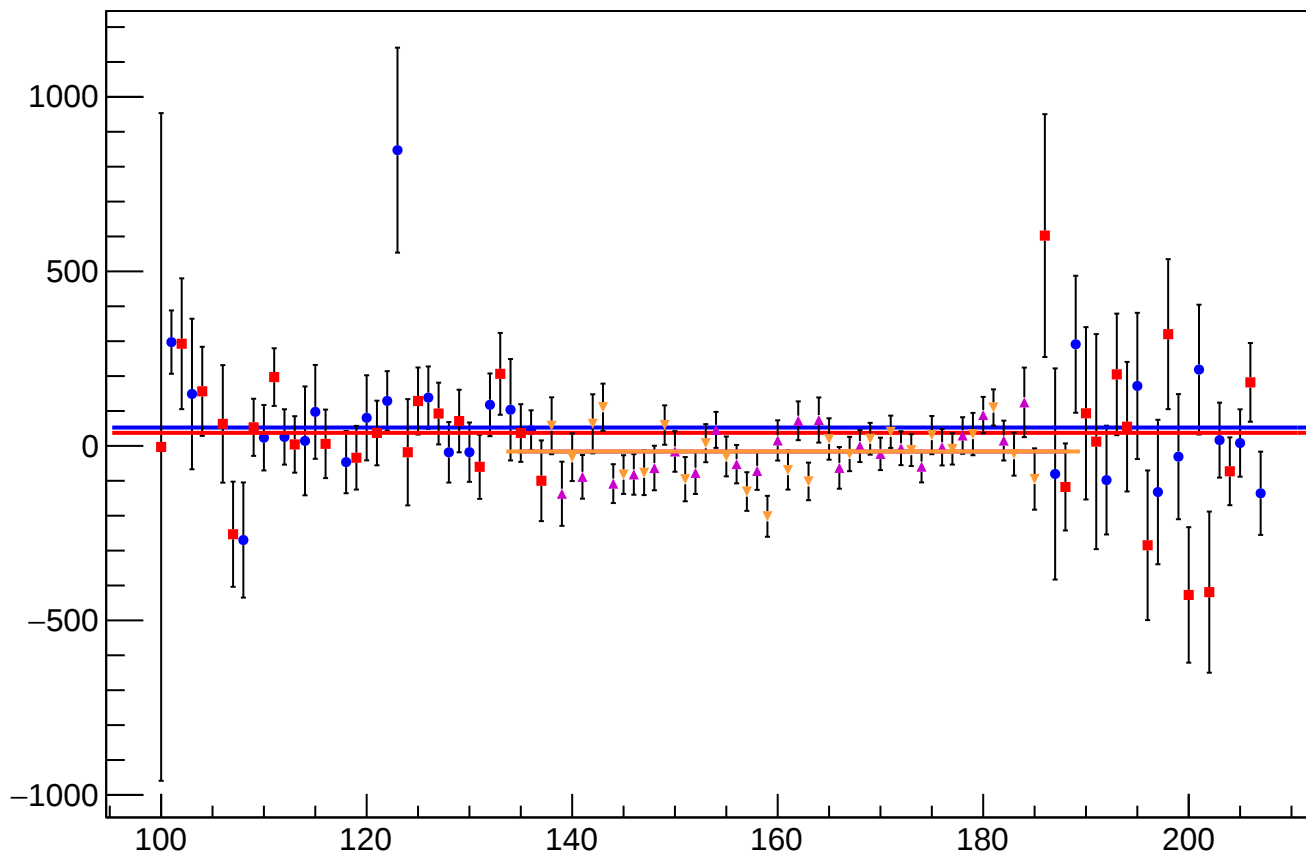
Right: 2764.246 $\pm$ 0.380 χ^2/NDF : 4801814.7/57

In: 1772.817 $\pm$ 0.236 χ^2/NDF :6087851.4/49

Out: 1778.992 $\pm$ 0.231 χ^2/NDF :7752542.4/55

All: 1775.973 $\pm$ 0.165 χ^2/NDF : 13840742.4/100

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 52.630 $\pm$ 21.248 χ^2 /NDF: 31.6/26

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 37.374 $\pm$ 21.270 χ^2 /NDF: 39.0/30

Left In: -16.162 $\pm$ 11.649 χ^2 /NDF:25.2/22

Left: -16.104 $\pm$ 8.126 χ^2 /NDF: 64.9/47

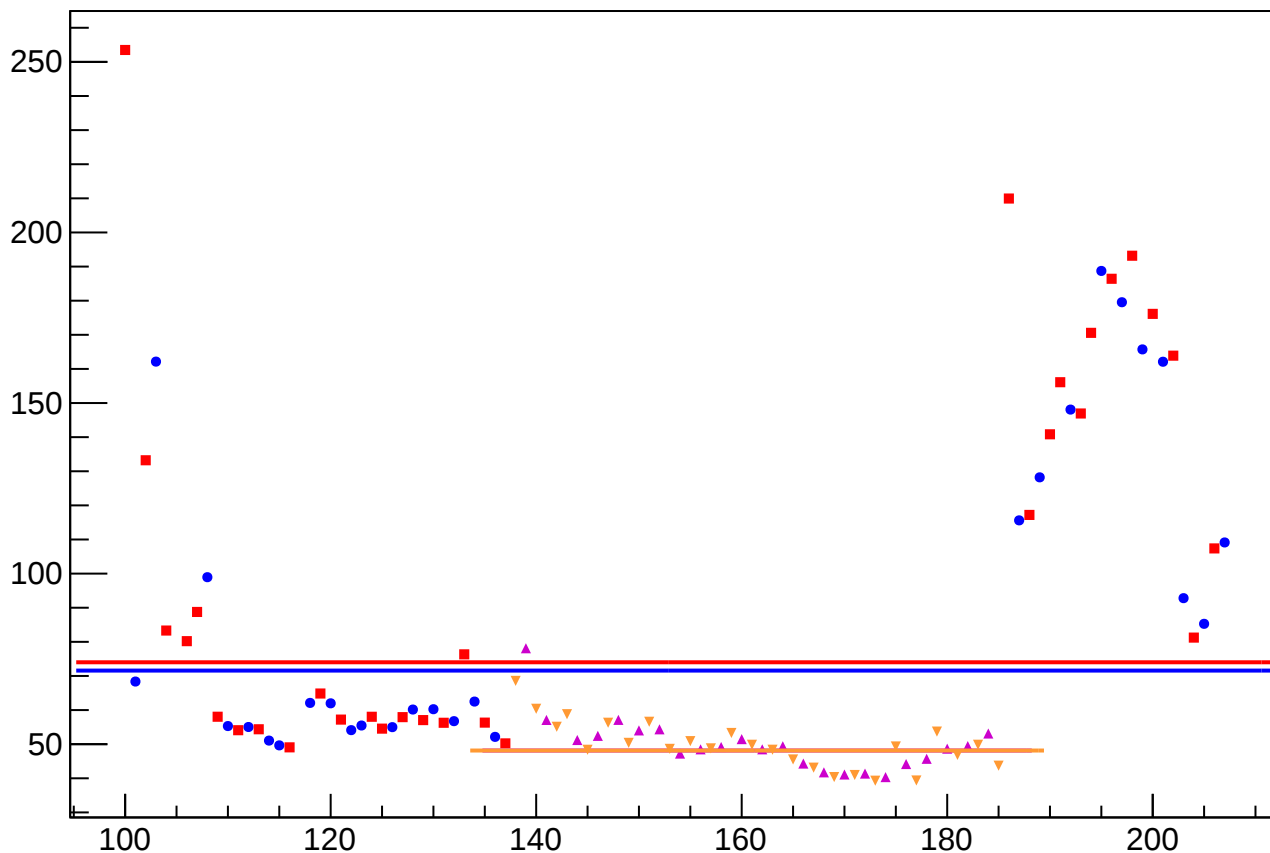
Right: 45.009 $\pm$ 15.032 χ^2 /NDF: 70.9/57

In: -0.263 $\pm$ 10.215 χ^2 /NDF:64.9/49

Out: -4.225 $\pm$ 10.007 χ^2 /NDF:83.6/55

All: -2.285 $\pm$ 7.148 χ^2 /NDF: 148.6/105

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 71.575 $\pm$ 0.015 χ^2 /NDF: 4407207.2/26

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 74.009 $\pm$ 0.015 χ^2 /NDF: 5255142.8/30

Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47

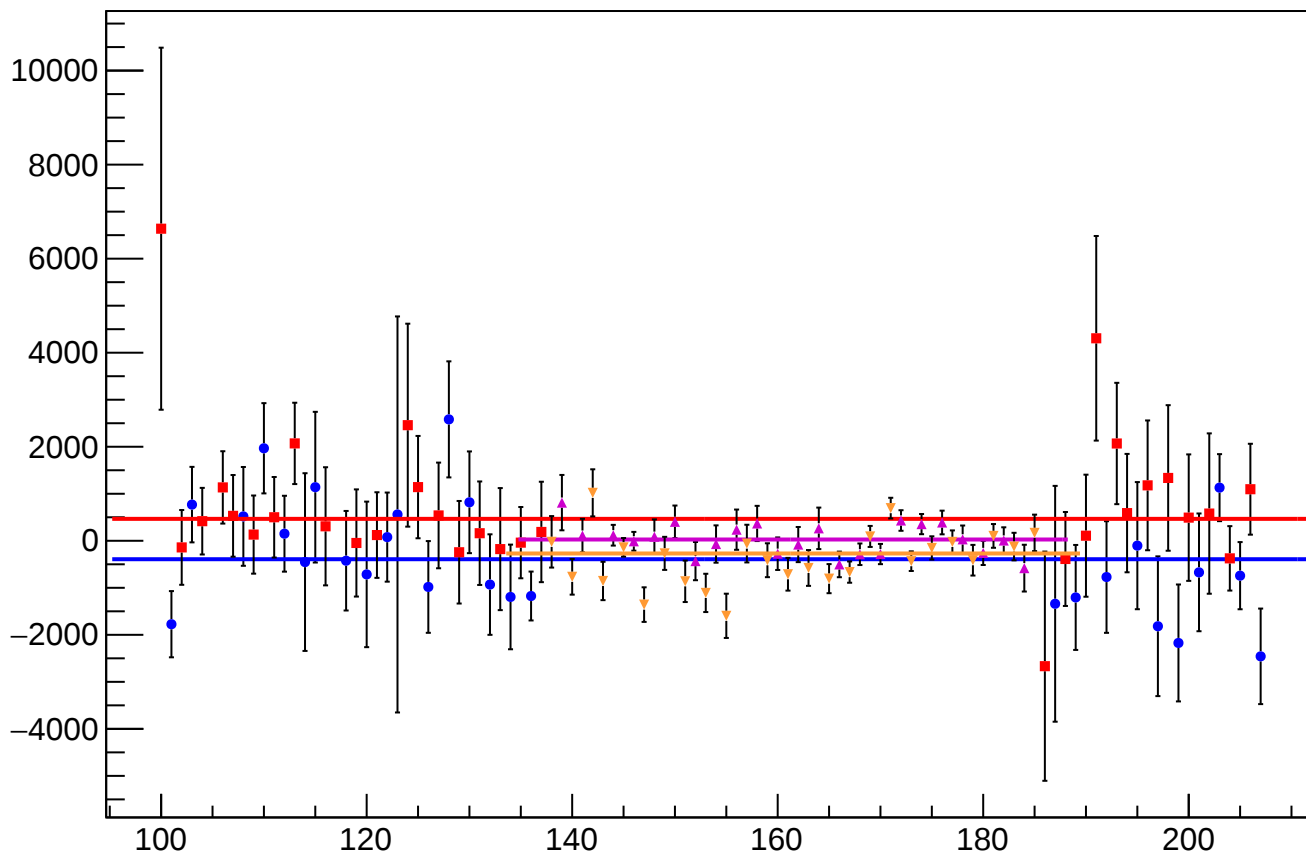
Right: 72.791 $\pm$ 0.011 χ^2 /NDF: 9675460.2/57

In: 53.556 $\pm$ 0.007 χ^2 /NDF: 6853008.2/49

Out: 53.866 $\pm$ 0.007 χ^2 /NDF: 8214013.8/55

All: 53.714 $\pm$ 0.005 χ^2 /NDF: 15067966.3/105

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -392.053 ± 192.292 $\chi^2/\text{NDF}: 37.7/26$

Left Out: -270.214 ± 60.177 $\chi^2/\text{NDF}: 70.1/24$

Right Out: 466.334 ± 187.675 $\chi^2/\text{NDF}: 20.0/30$

Left In: 27.271 ± 60.430 $\chi^2/\text{NDF}: 25.1/22$

Left: -122.095 ± 42.641 $\chi^2/\text{NDF}: 107.3/47$

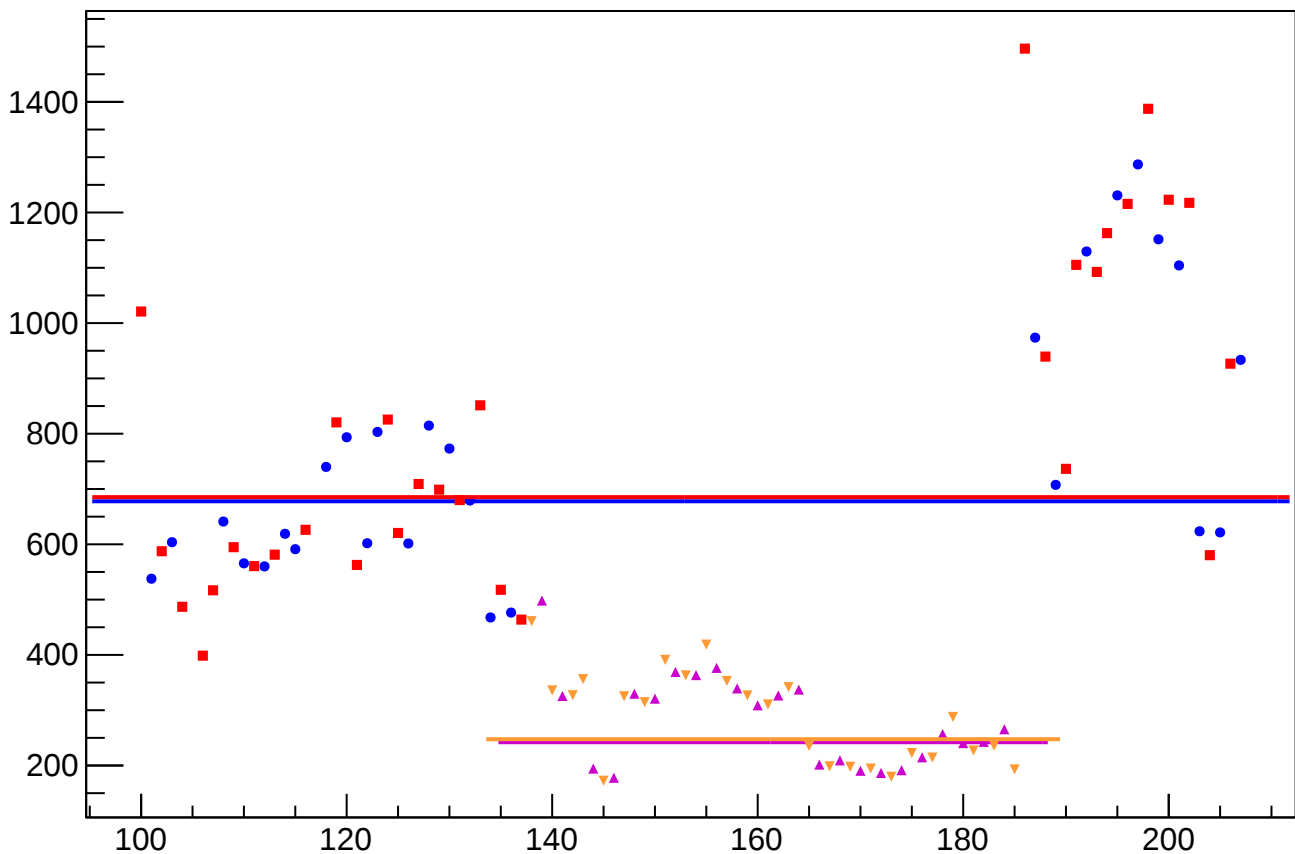
Right: 47.569 ± 134.309 $\chi^2/\text{NDF}: 67.9/57$

In: -10.419 ± 57.650 $\chi^2/\text{NDF}: 67.1/49$

Out: -201.546 ± 57.304 $\chi^2/\text{NDF}: 104.1/55$

All: -106.559 ± 40.642 $\chi^2/\text{NDF}: 176.7/105$

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 677.804 $\pm$ 0.136 χ^2 /NDF: 2294960.7/26

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 685.295 $\pm$ 0.133 χ^2 /NDF: 3260563.1/30

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

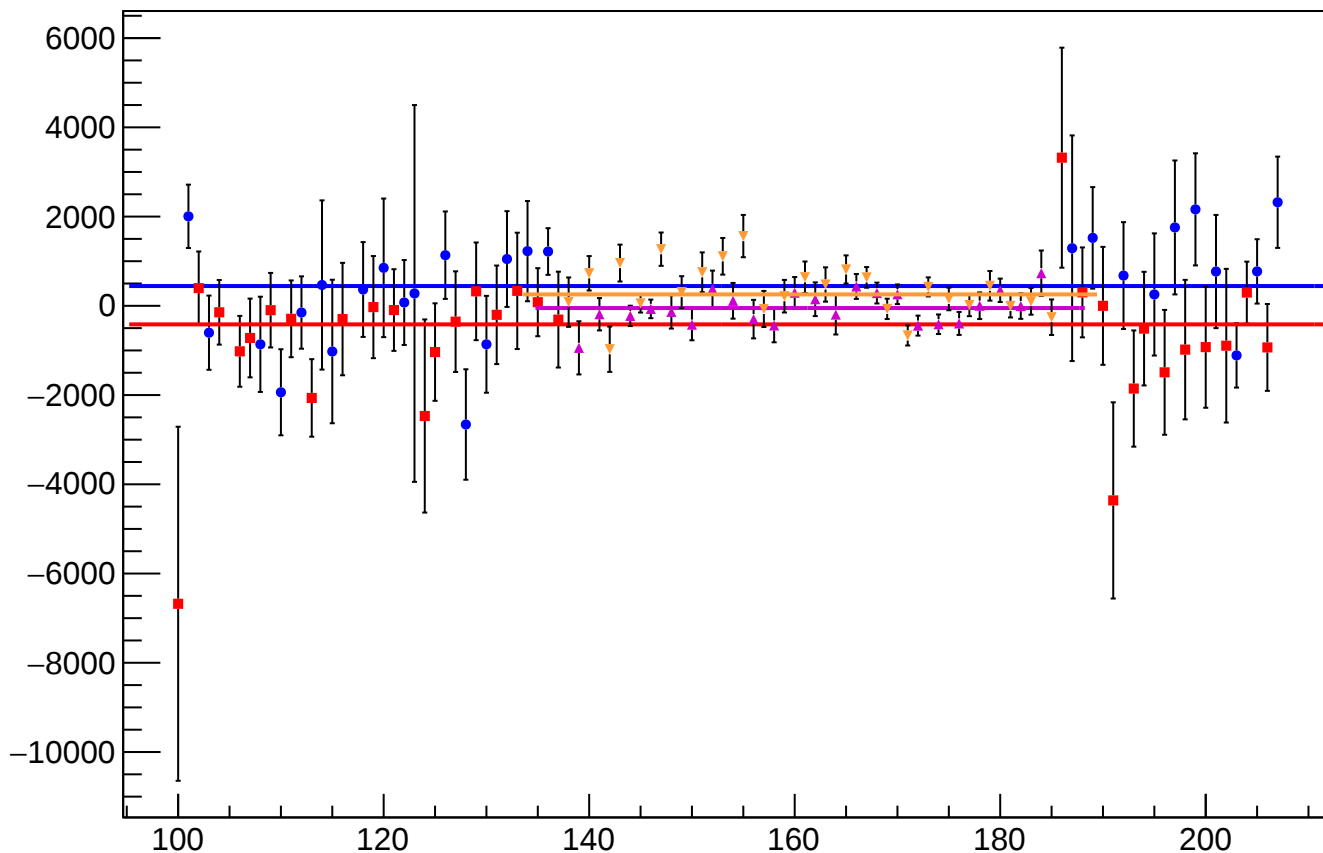
Right: 681.640 $\pm$ 0.095 χ^2 /NDF: 5557078.5/57

In: 281.278 $\pm$ 0.041 χ^2 /NDF: 14105539.3/49

Out: 288.379 $\pm$ 0.041 χ^2 /NDF: 15906981.2/55

All: 284.850 $\pm$ 0.029 χ^2 /NDF: 30027783.9/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 443.267 $\pm$ 194.089 χ^2 /NDF: 38.8/26

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -415.615 $\pm$ 189.773 χ^2 /NDF: 20.4/30

Left In: -49.832 $\pm$ 61.781 χ^2 /NDF:27.5/22

Left: 103.982 $\pm$ 43.557 χ^2 /NDF: 103.4/47

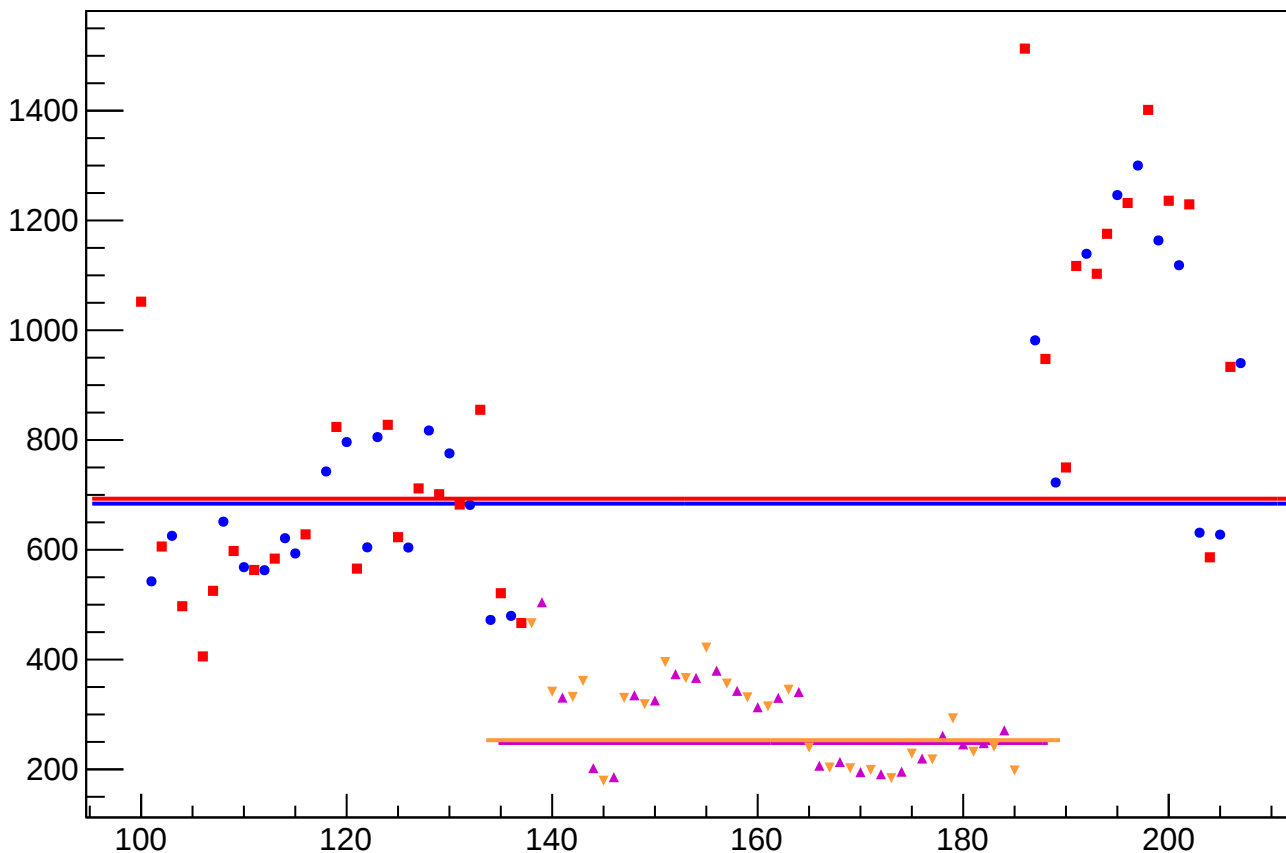
Right: 4.171 $\pm$ 135.690 χ^2 /NDF: 69.3/57

In: -4.466 $\pm$ 58.871 χ^2 /NDF:72.2/49

Out: 192.318 $\pm$ 58.434 χ^2 /NDF:95.4/55

All: 94.658 $\pm$ 41.473 χ^2 /NDF: 173.2/105

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 684.133+/-0.137 χ^2/NDF : 2300220.9/26

Left Out: 253.137+/-0.043 χ^2/NDF :2665975.8/24

Right Out: 693.084+/-0.134 χ^2/NDF : 3233580.9/30

Left In: 248.069+/-0.044 χ^2/NDF :2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

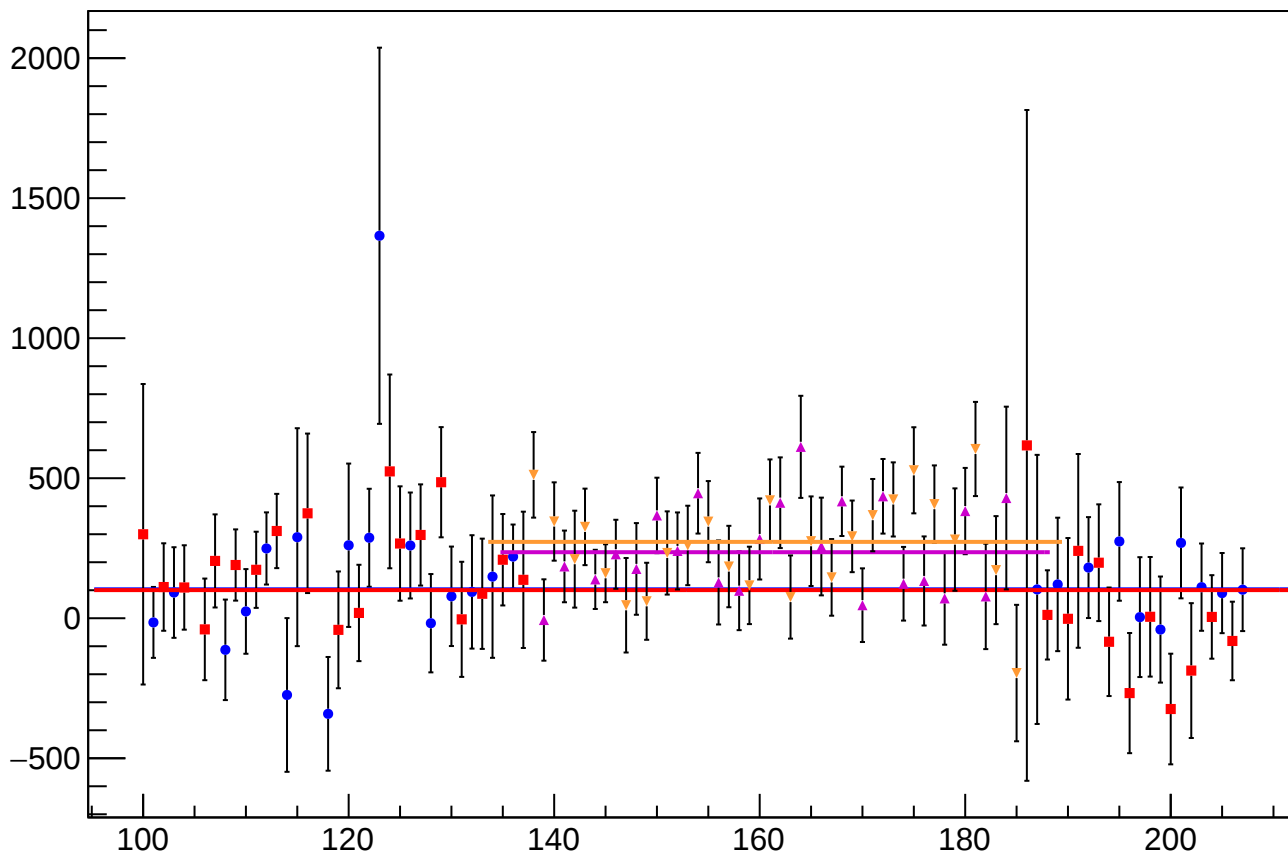
Right: 688.709+/-0.096 χ^2/NDF : 5535976.4/57

In: 288.187+/-0.042 χ^2/NDF :13810225.5/49

Out: 294.849+/-0.041 χ^2/NDF :15629236.4/55

All: 291.543+/-0.029 χ^2/NDF : 29452364.1/10

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 103.202 $\pm$ 34.985 χ^2 /NDF: 20.3/26

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 100.441 $\pm$ 33.670 χ^2 /NDF: 27.2/30

Left In: 235.801 $\pm$ 30.232 χ^2 /NDF:24.6/22

Left: 254.870 $\pm$ 21.011 χ^2 /NDF: 52.8/47

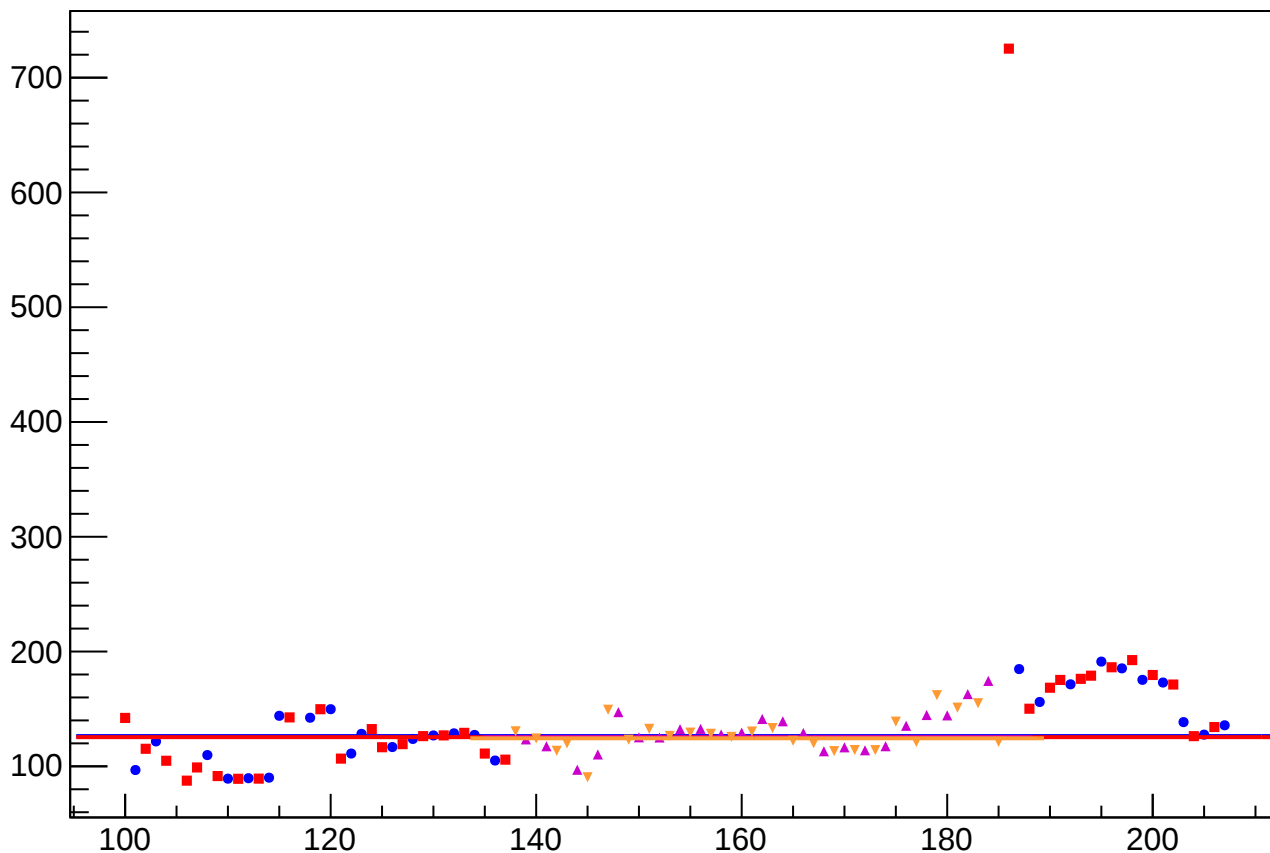
Right: 101.768 $\pm$ 24.260 χ^2 /NDF: 47.5/57

In: 179.115 $\pm$ 22.874 χ^2 /NDF:53.2/49

Out: 198.685 $\pm$ 22.069 χ^2 /NDF:69.5/55

All: 189.251 $\pm$ 15.882 χ^2 /NDF: 123.1/105

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.350 $\pm$ 0.025 χ^2 /NDF: 1355674.5/26

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.402 $\pm$ 0.024 χ^2 /NDF: 2209737.3/30

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

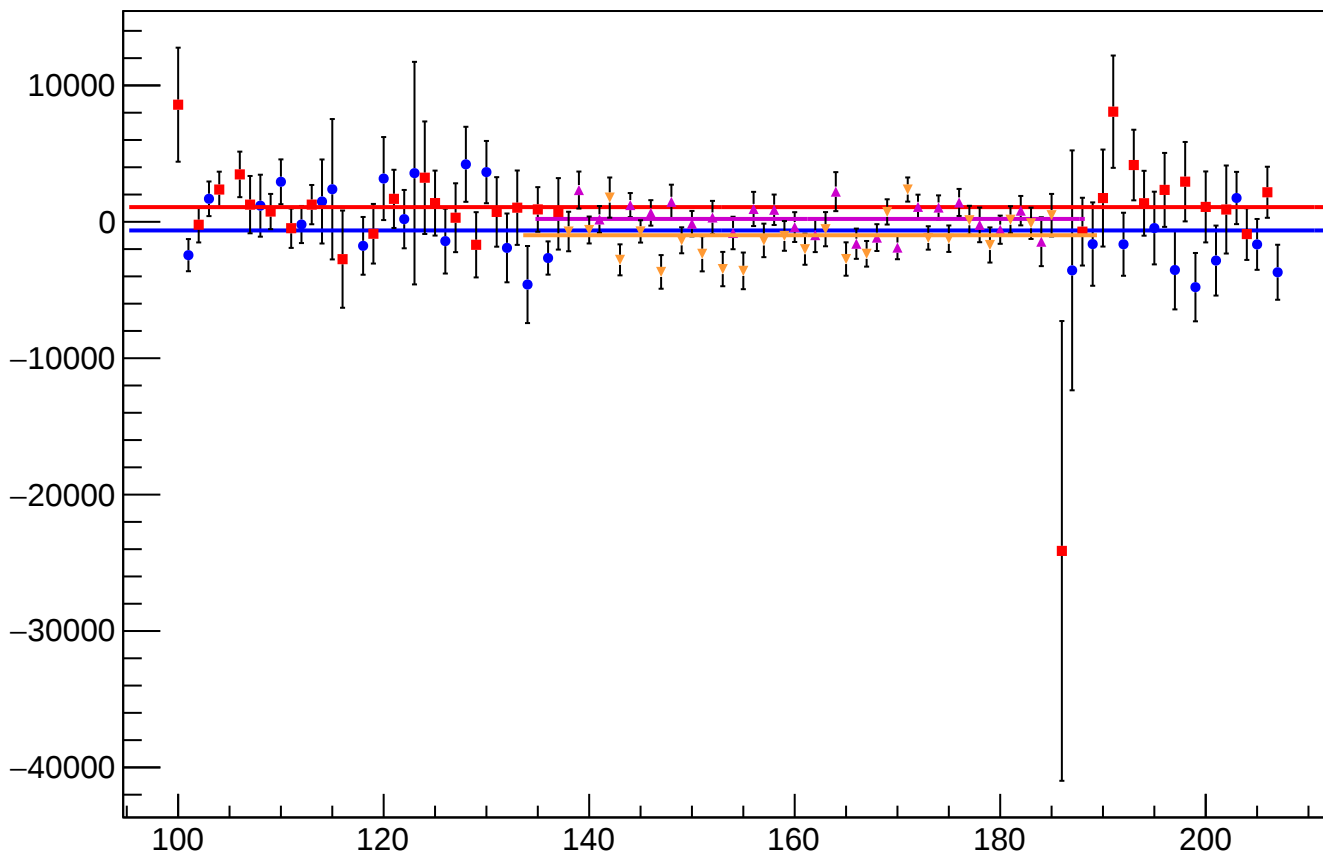
Right: 125.858 $\pm$ 0.017 χ^2 /NDF: 3566173.7/57

In: 125.694 $\pm$ 0.016 χ^2 /NDF: 1858288.1/49

Out: 124.847 $\pm$ 0.016 χ^2 /NDF: 2750422.1/55

All: 125.255 $\pm$ 0.011 χ^2 /NDF: 4610132.2/105

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -632.390+/-398.558 χ^2/NDF : 35.0/26

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1078.961+/-379.154 χ^2/NDF : 21.5/30

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

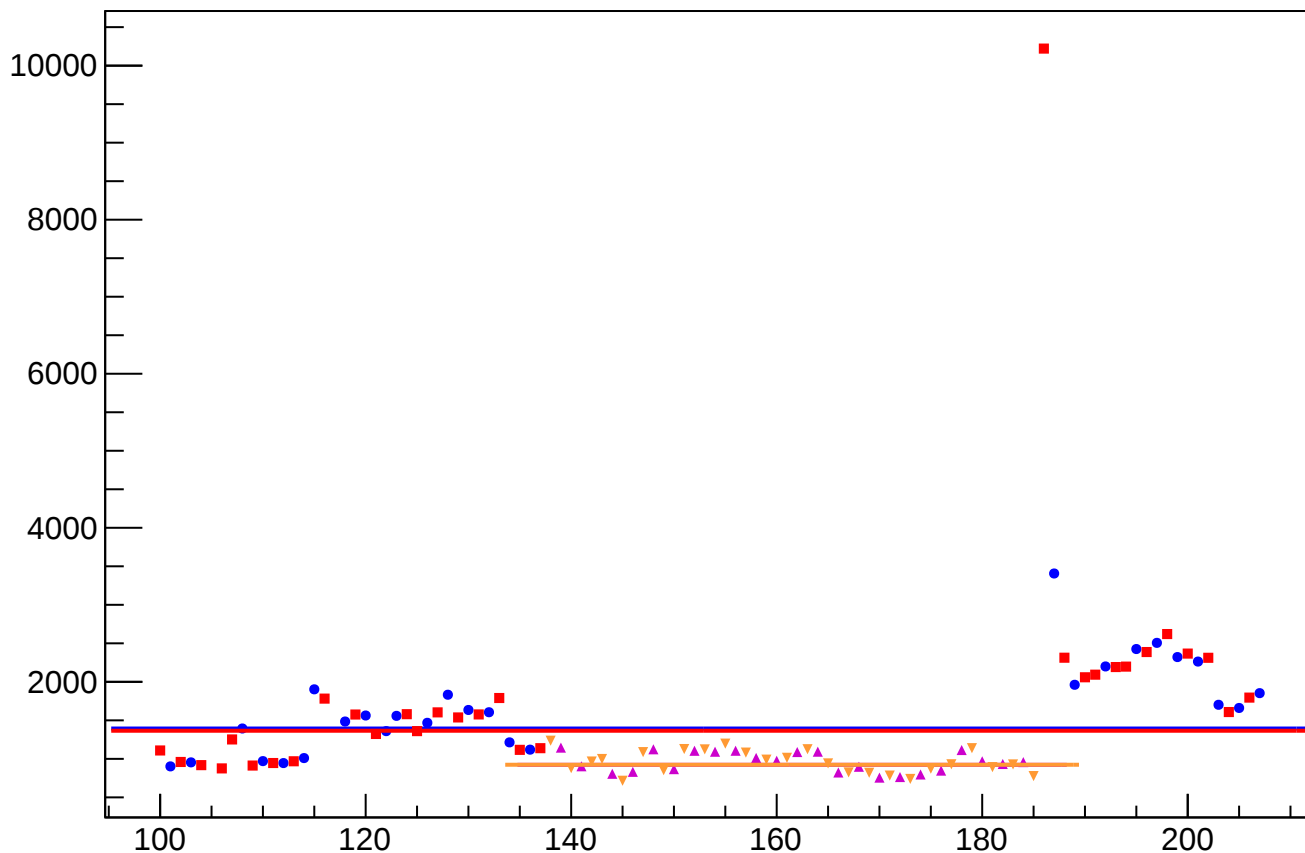
Right: 265.956+/-274.706 χ^2/NDF : 66.2/57

In: 9.832+/-194.806 χ^2/NDF : 64.1/49

Out: -470.510+/-189.002 χ^2/NDF : 90.9/55

All: -237.601+/-135.650 χ^2/NDF : 158.1/105

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1393.873+/-0.282 χ^2/NDF : 2911772.5/26

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1365.124+/-0.268 χ^2/NDF : 4076631.4/30

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

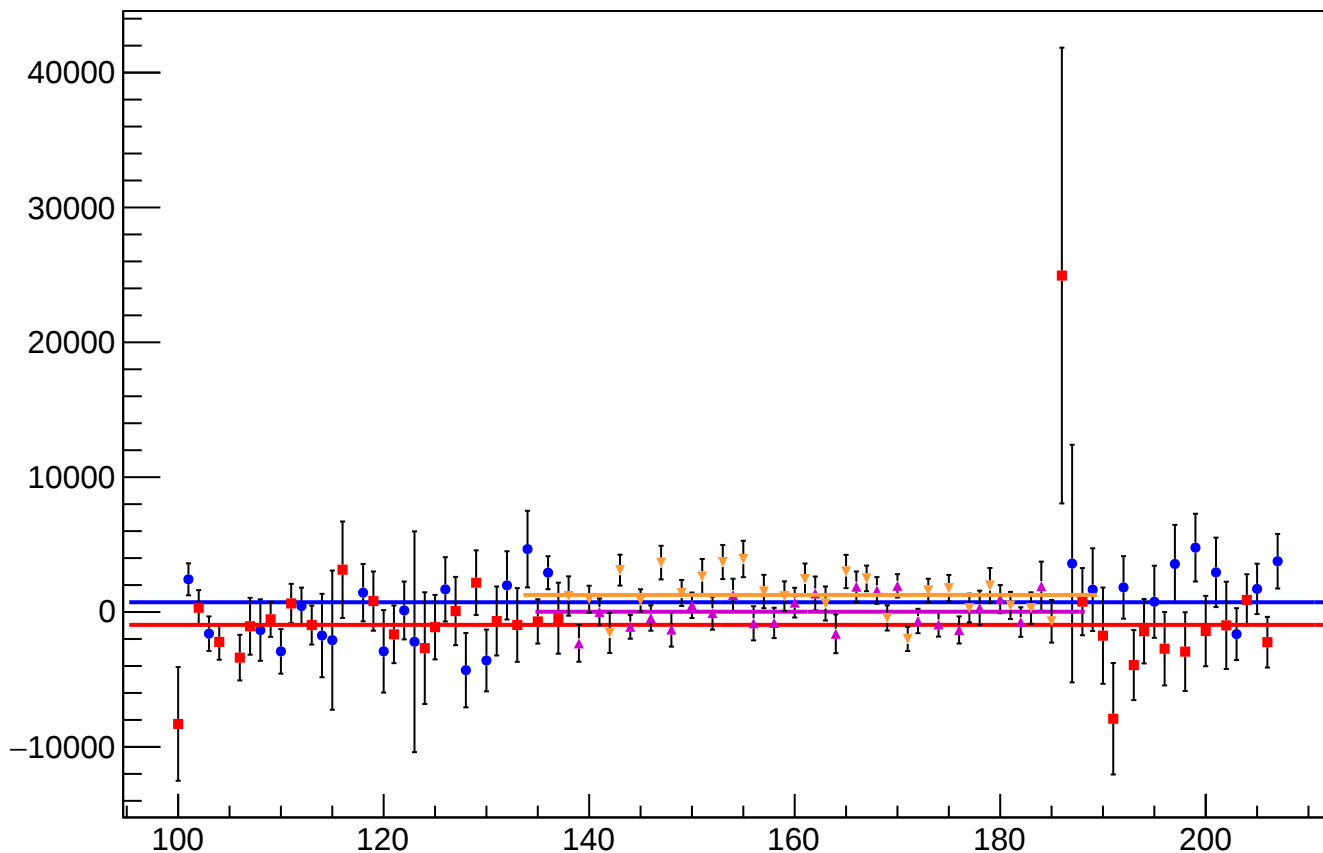
Right: 1378.782+/-0.194 χ^2/NDF : 6993866.5/57

In: 1034.918+/-0.138 χ^2/NDF : 5677993.7/49

Out: 1033.302+/-0.134 χ^2/NDF : 6957701.4/55

All: 1034.086+/-0.096 χ^2/NDF : 12635766.0/100

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 726.426+/-400.321 χ^2/NDF : 35.0/26

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -949.353+/-381.006 χ^2/NDF : 21.8/30

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

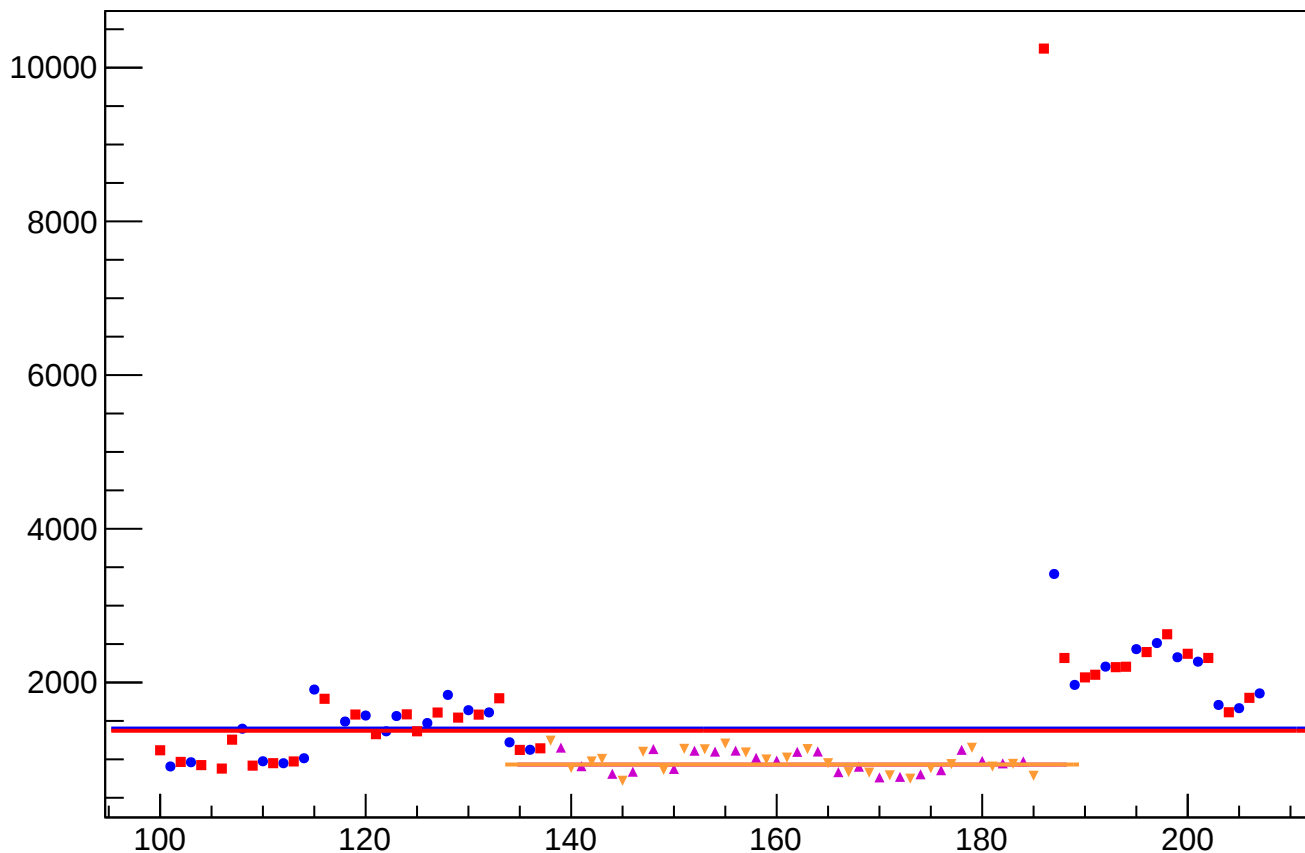
Right: -152.863+/-275.988 χ^2/NDF : 66.0/57

In: 192.789+/-196.467 χ^2/NDF :64.5/49

Out: 712.568+/-190.606 χ^2/NDF :92.1/55

All: 460.546+/-136.804 χ^2/NDF : 160.2/105

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1400.583+/-0.283 χ^2/NDF : 2894109.6/26

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1372.184+/-0.269 χ^2/NDF : 4054383.4/30

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

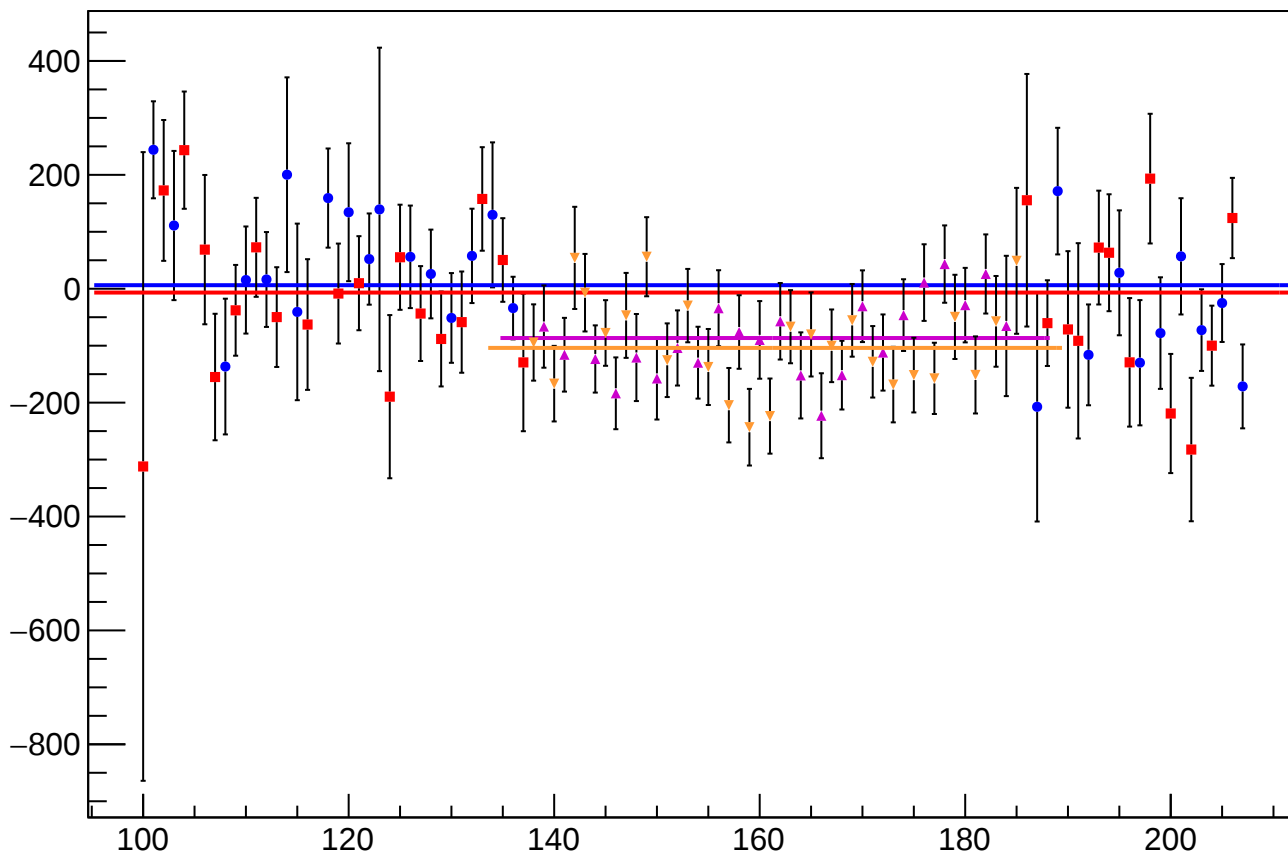
Right: 1385.682+/-0.195 χ^2/NDF : 6953774.4/57

In: 1044.477+/-0.139 χ^2/NDF : 5603278.1/49

Out: 1042.738+/-0.135 χ^2/NDF : 6878660.3/55

All: 1043.581+/-0.097 χ^2/NDF : 12482019.2/100

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 6.231 ± 17.825 χ^2/NDF : 33.8/26

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: -6.719 ± 17.614 χ^2/NDF : 41.4/30

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

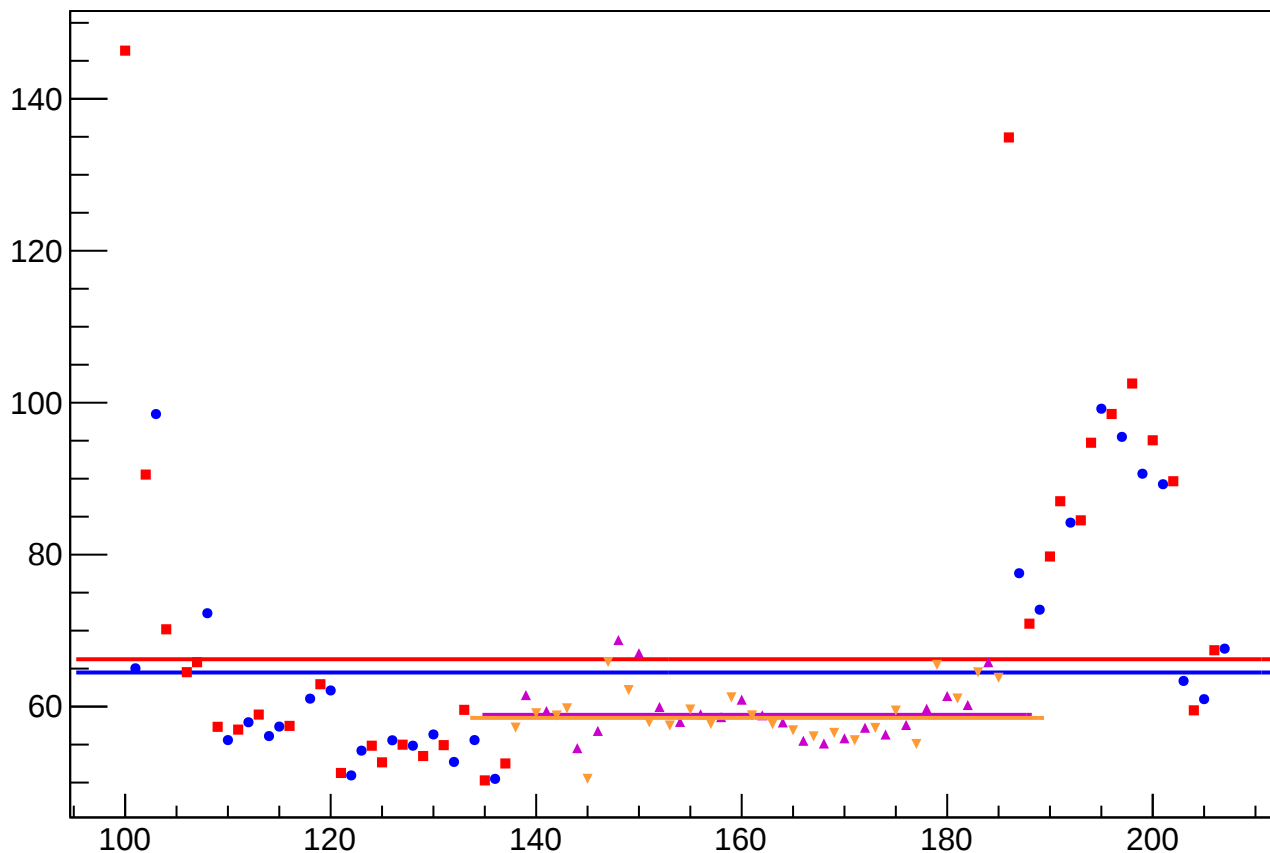
Right: -0.321 ± 12.529 χ^2/NDF : 75.5/57

In: -50.773 ± 11.068 χ^2/NDF : 71.8/49

Out: -67.463 ± 10.786 χ^2/NDF : 90.4/55

All: -59.334 ± 7.725 χ^2/NDF : 163.4/105

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.489 $\pm$ 0.013 χ^2 /NDF: 1246115.9/26

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.232 $\pm$ 0.012 χ^2 /NDF: 1642518.6/30

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

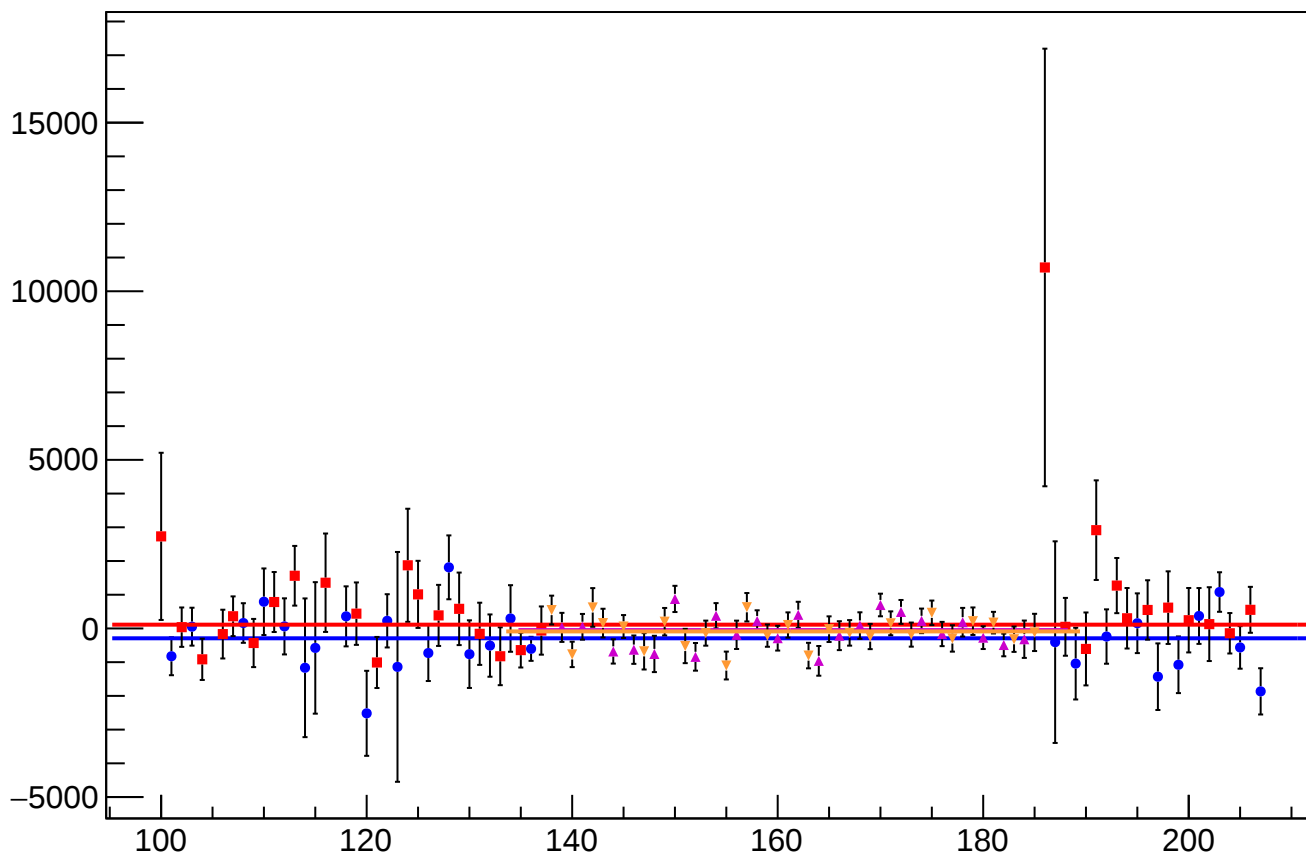
Right: 65.371 $\pm$ 0.009 χ^2 /NDF: 2898311.5/57

In: 61.063 $\pm$ 0.008 χ^2 /NDF:1476302.7/49

Out: 61.407 $\pm$ 0.008 χ^2 /NDF:2005806.9/55

All: 61.239 $\pm$ 0.005 χ^2 /NDF: 3483101.1/105

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -291.937 ± 149.636 χ^2/NDF : 28.7/26

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 112.166 ± 149.751 χ^2/NDF : 26.7/30

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

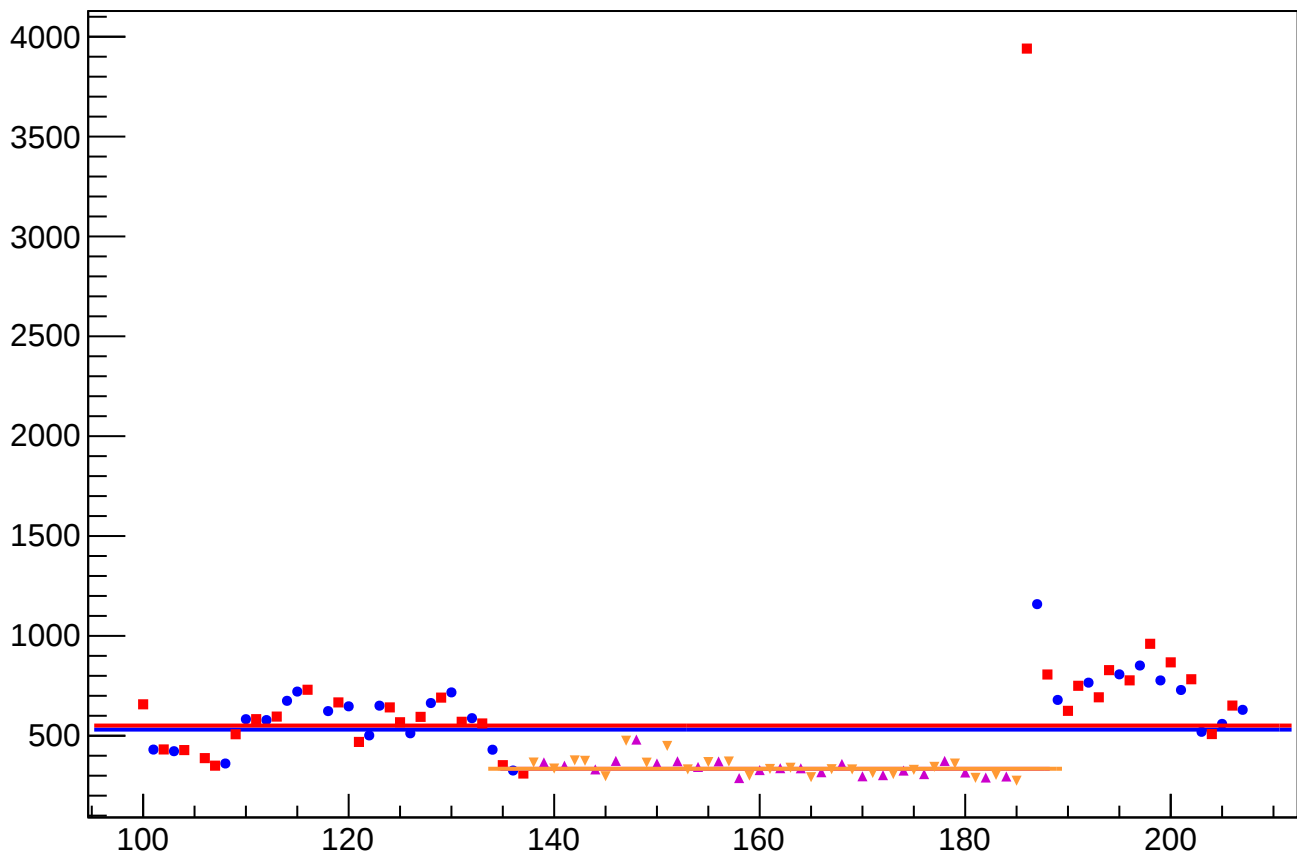
Right: -90.041 ± 105.849 χ^2/NDF : 59.1/57

In: -103.378 ± 70.925 χ^2/NDF : 66.1/49

Out: -44.380 ± 69.566 χ^2/NDF : 55.8/55

All: -73.308 ± 49.664 χ^2/NDF : 122.3/105

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 530.770 $\pm$ 0.106 χ^2 /NDF: 2225410.3/26

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 551.055 $\pm$ 0.106 χ^2 /NDF: 2974166.0/30

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

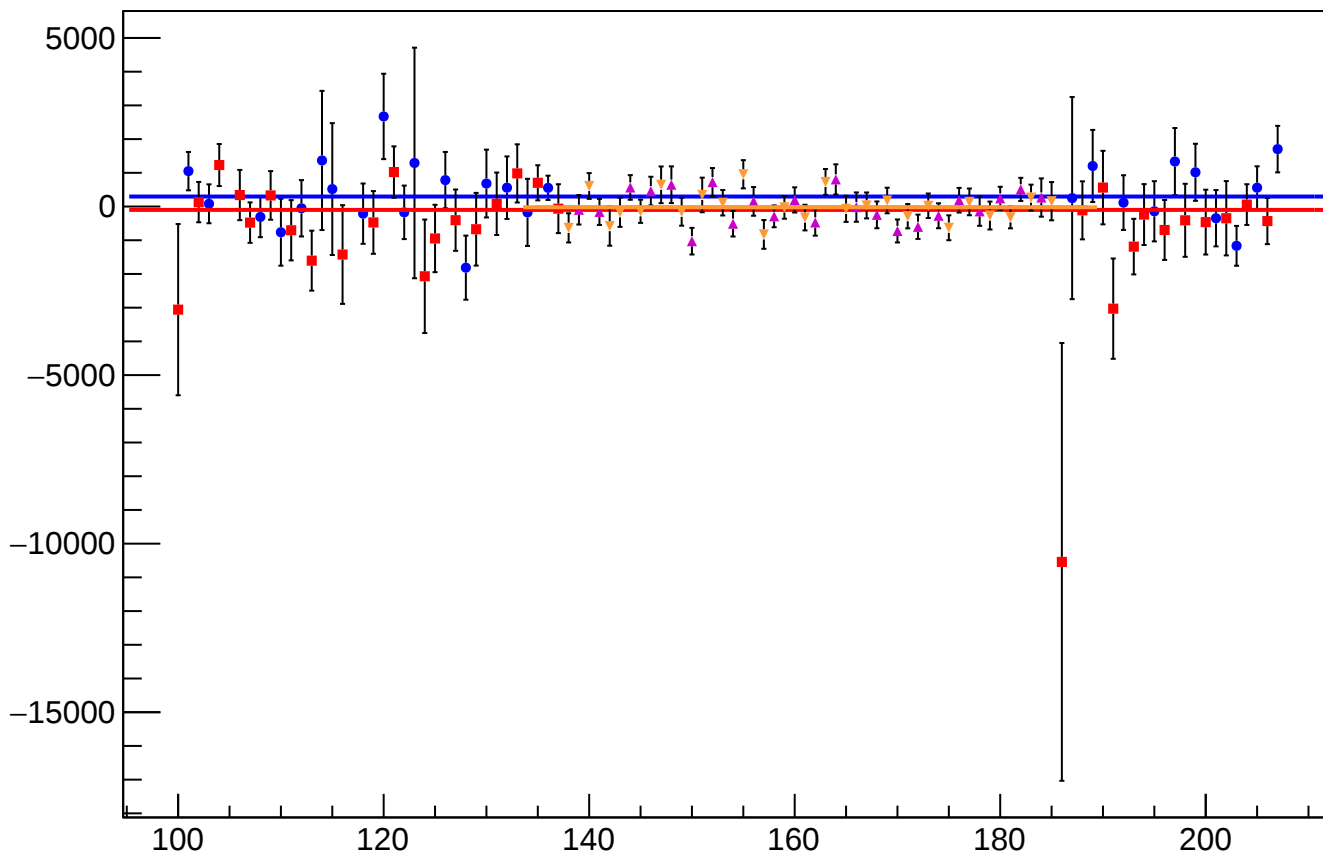
Right: 540.905 $\pm$ 0.075 χ^2 /NDF: 5217940.7/57

In: 378.320 $\pm$ 0.050 χ^2 /NDF: 5300058.7/49

Out: 381.428 $\pm$ 0.049 χ^2 /NDF: 6737872.3/55

All: 379.904 $\pm$ 0.035 χ^2 /NDF: 12039887.7/10

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 296.570 ± 151.149 χ^2/NDF : 28.9/26

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -99.369 ± 151.323 χ^2/NDF : 29.7/30

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

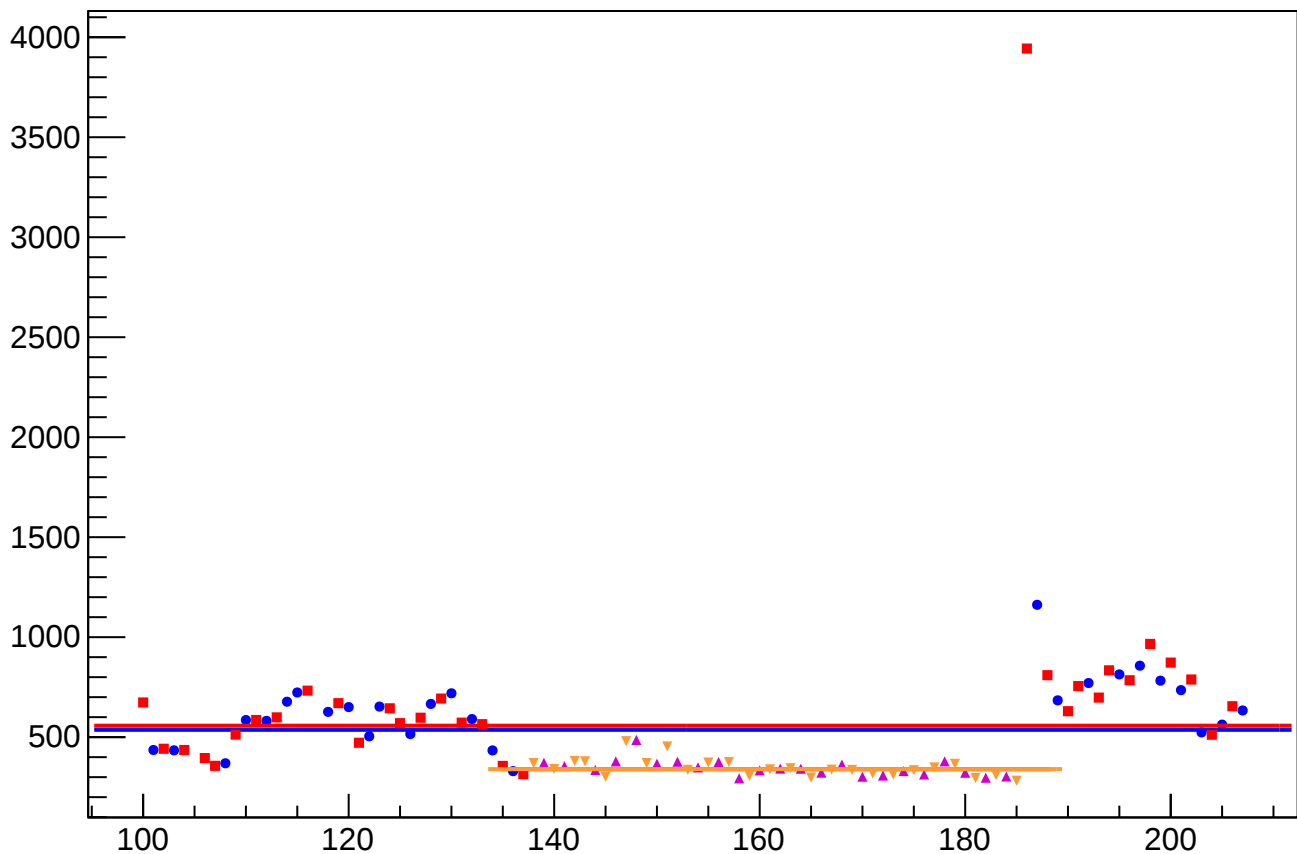
Right: 98.829 ± 106.940 χ^2/NDF : 62.0/57

In: 42.643 ± 71.967 χ^2/NDF : 66.6/49

Out: -37.974 ± 70.595 χ^2/NDF : 57.2/55

All: 1.558 ± 50.396 χ^2/NDF : 124.4/105

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 536.796 $\pm$ 0.107 χ^2 /NDF: 2167004.8/26

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 557.425 $\pm$ 0.107 χ^2 /NDF: 2909916.4/30

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

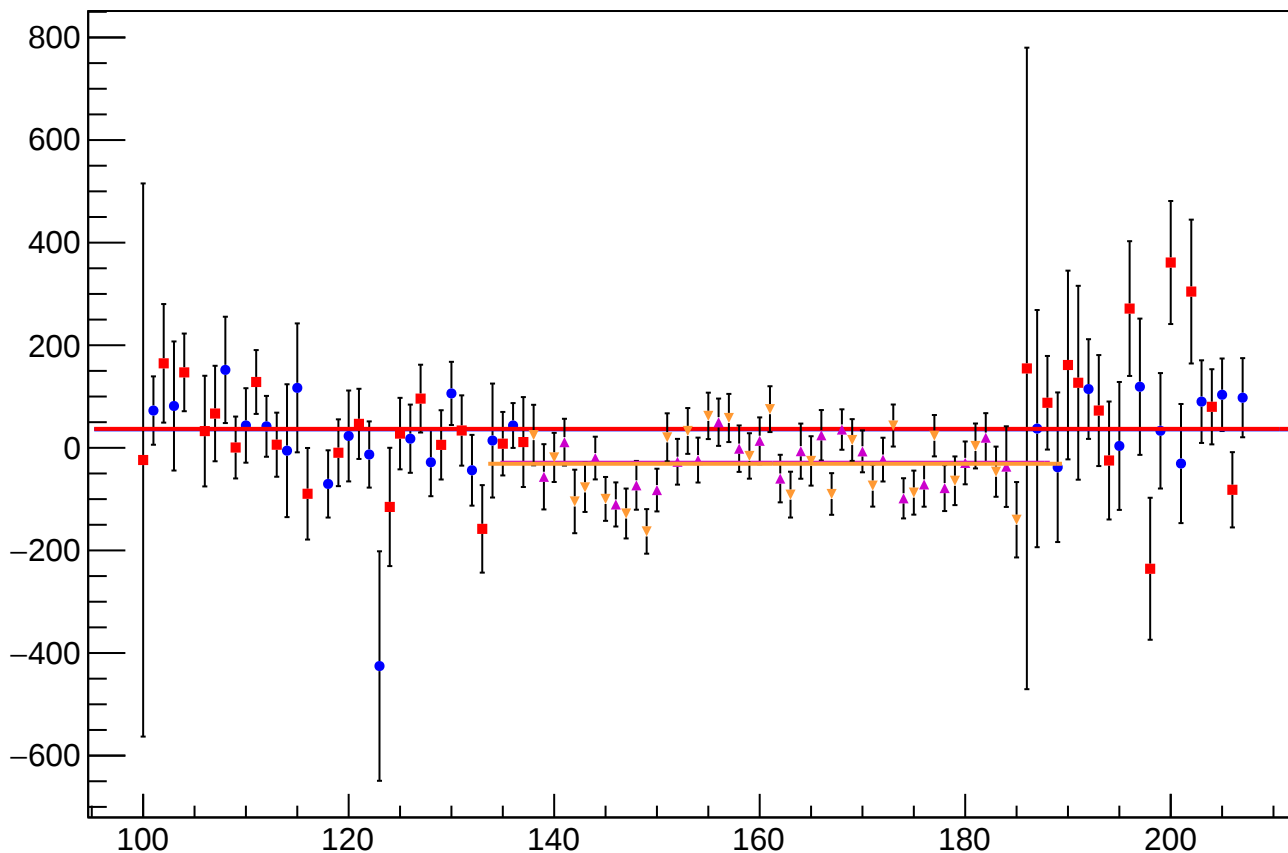
Right: 547.099 $\pm$ 0.076 χ^2 /NDF: 5095526.2/57

In: 384.322 $\pm$ 0.051 χ^2 /NDF: 5178720.1/49

Out: 387.505 $\pm$ 0.050 χ^2 /NDF: 6602038.5/55

All: 385.944 $\pm$ 0.036 χ^2 /NDF: 11782753.3/106

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 36.007 $\pm$ 15.619 χ^2 /NDF: 17.1/26

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 36.966 $\pm$ 15.370 χ^2 /NDF: 39.5/30

Left In: -29.055 $\pm$ 9.449 χ^2 /NDF:22.4/22

Left: -30.089 $\pm$ 6.581 χ^2 /NDF: 75.1/47

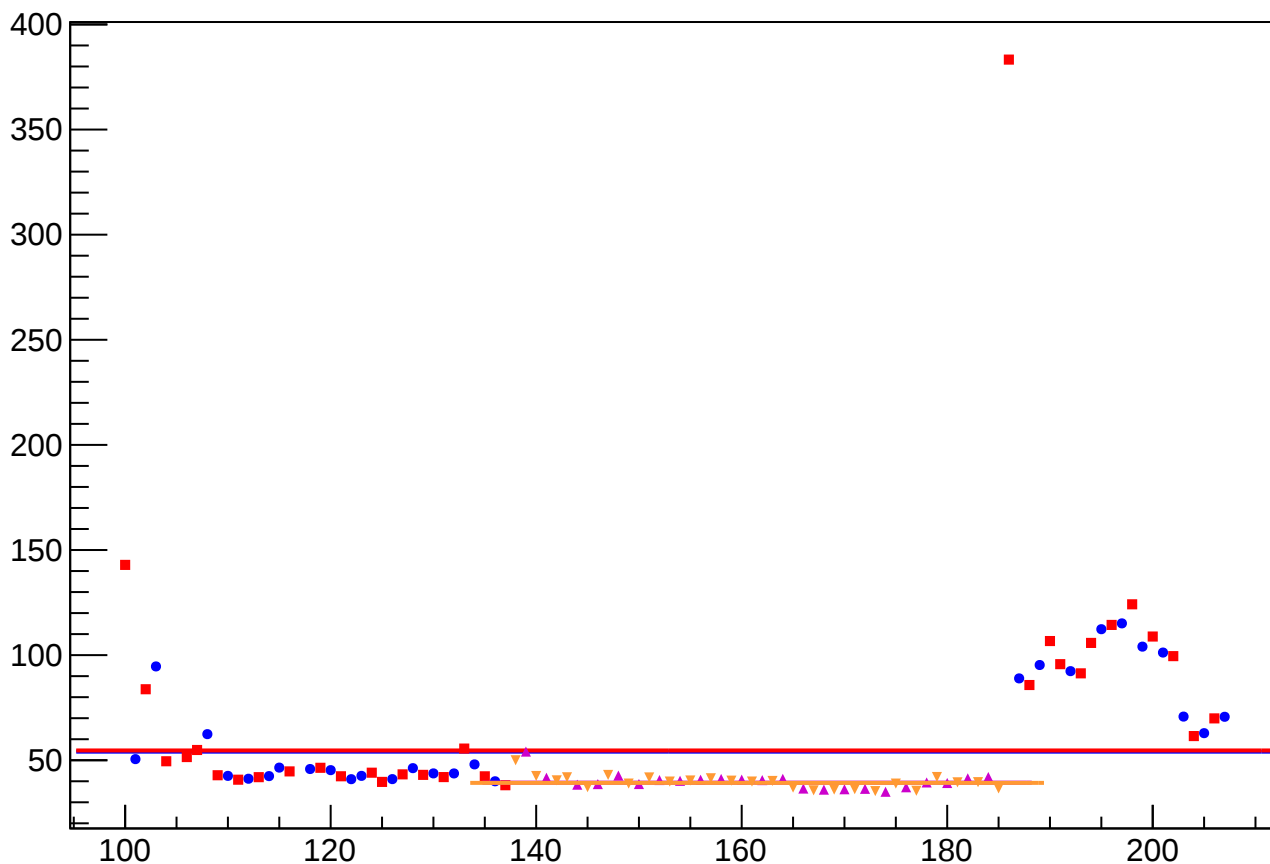
Right: 36.494 $\pm$ 10.955 χ^2 /NDF: 56.6/57

In: -11.622 $\pm$ 8.085 χ^2 /NDF:52.3/49

Out: -13.205 $\pm$ 7.875 χ^2 /NDF:106.5/55

All: -12.435 $\pm$ 5.641 χ^2 /NDF: 158.8/105

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 54.084 $\pm$ 0.011 χ^2 /NDF: 3261329.3/26

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 54.653 $\pm$ 0.011 χ^2 /NDF: 4318430.5/30

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

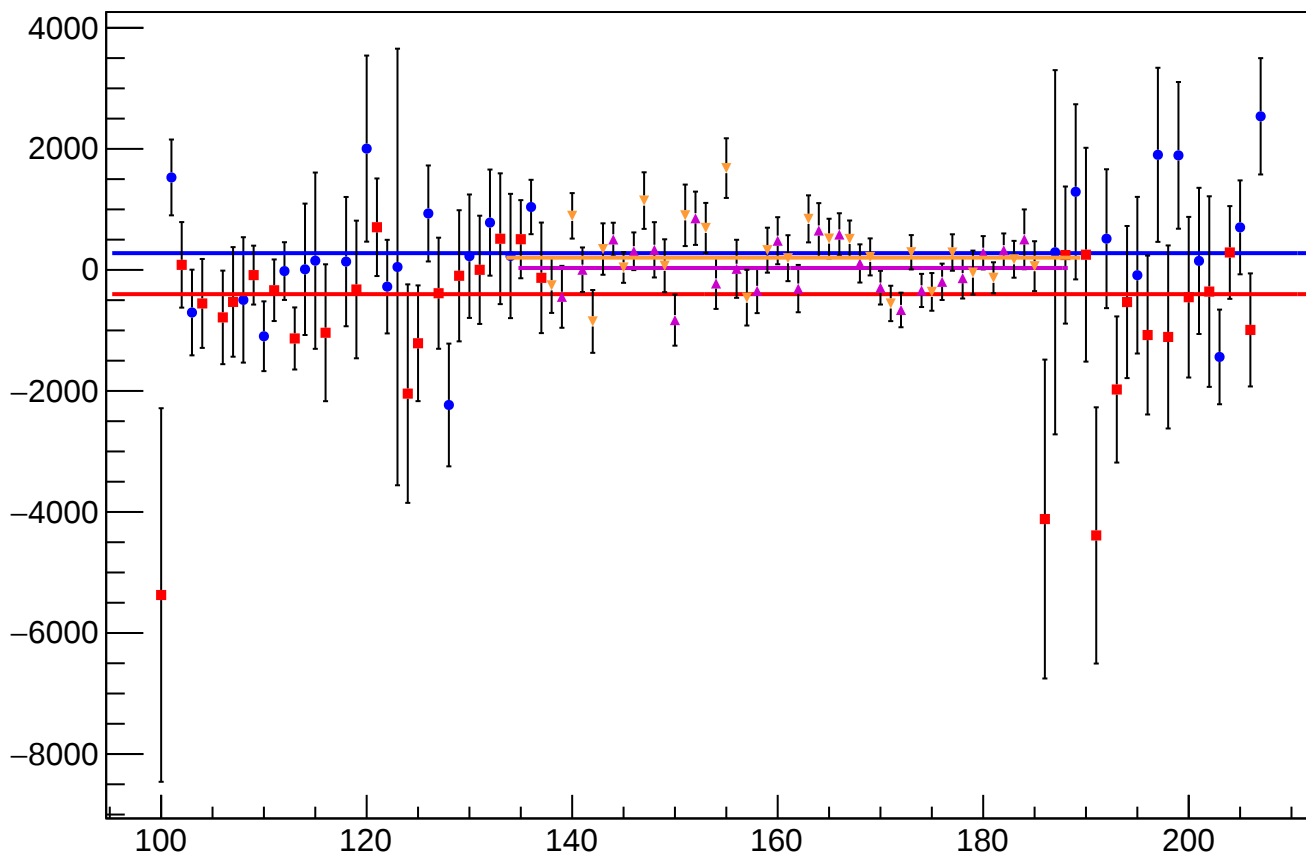
Right: 54.373 $\pm$ 0.008 χ^2 /NDF: 7581108.5/57

In: 43.289 $\pm$ 0.006 χ^2 /NDF: 4781917.2/49

Out: 43.282 $\pm$ 0.006 χ^2 /NDF: 6004667.3/55

All: 43.286 $\pm$ 0.004 χ^2 /NDF: 10786585.2/105

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 276.905 $\pm$ 166.311 χ^2 /NDF: 38.7/26

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -400.628 $\pm$ 160.969 χ^2 /NDF: 22.1/30

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

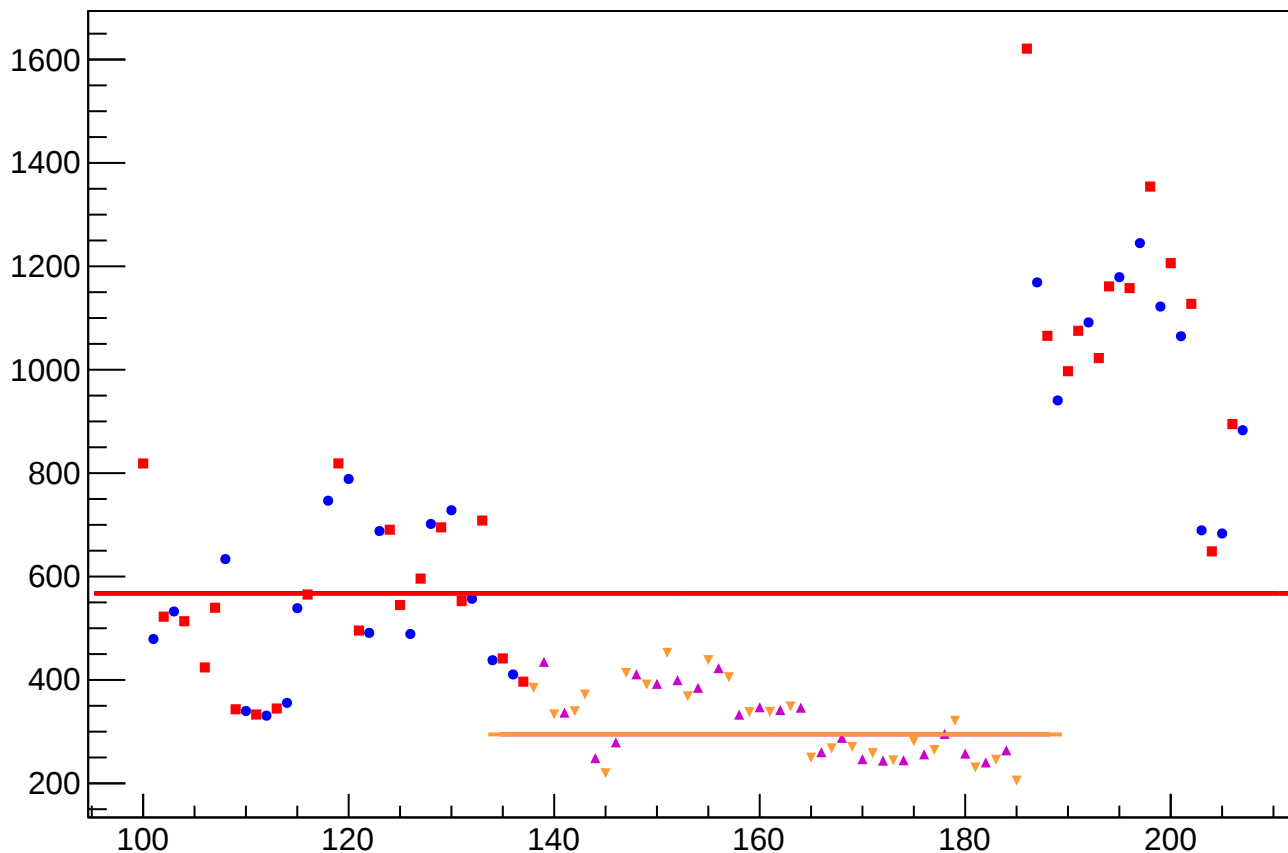
Right: -72.917 $\pm$ 115.665 χ^2 /NDF: 69.4/57

In: 70.366 $\pm$ 66.151 χ^2 /NDF:73.9/49

Out: 105.490 $\pm$ 64.521 χ^2 /NDF:78.7/55

All: 88.366 $\pm$ 46.189 χ^2 /NDF: 152.7/105

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 567.856+/-0.118 χ^2/NDF : 4020401.1/26

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 566.577+/-0.114 χ^2/NDF : 5262791.8/30

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

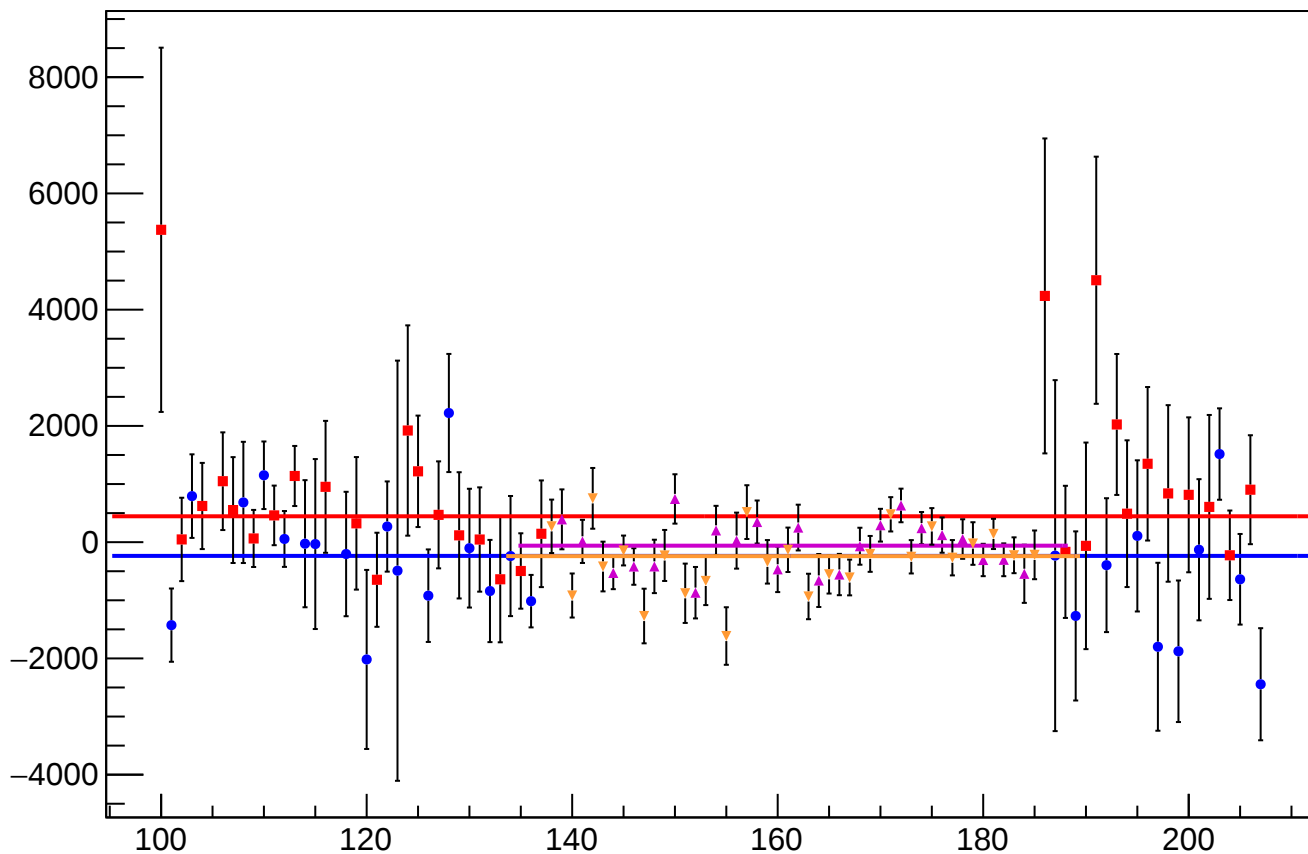
Right: 567.195+/-0.082 χ^2/NDF : 9283254.0/57

In: 337.934+/-0.047 χ^2/NDF : 9858614.5/49

Out: 338.289+/-0.046 χ^2/NDF : 11735887.0/55

All: 338.116+/-0.033 χ^2/NDF : 21594531.0/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -236.049 ± 167.283 $\chi^2/\text{NDF}: 38.4/26$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 445.333 ± 162.474 $\chi^2/\text{NDF}: 21.9/30$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

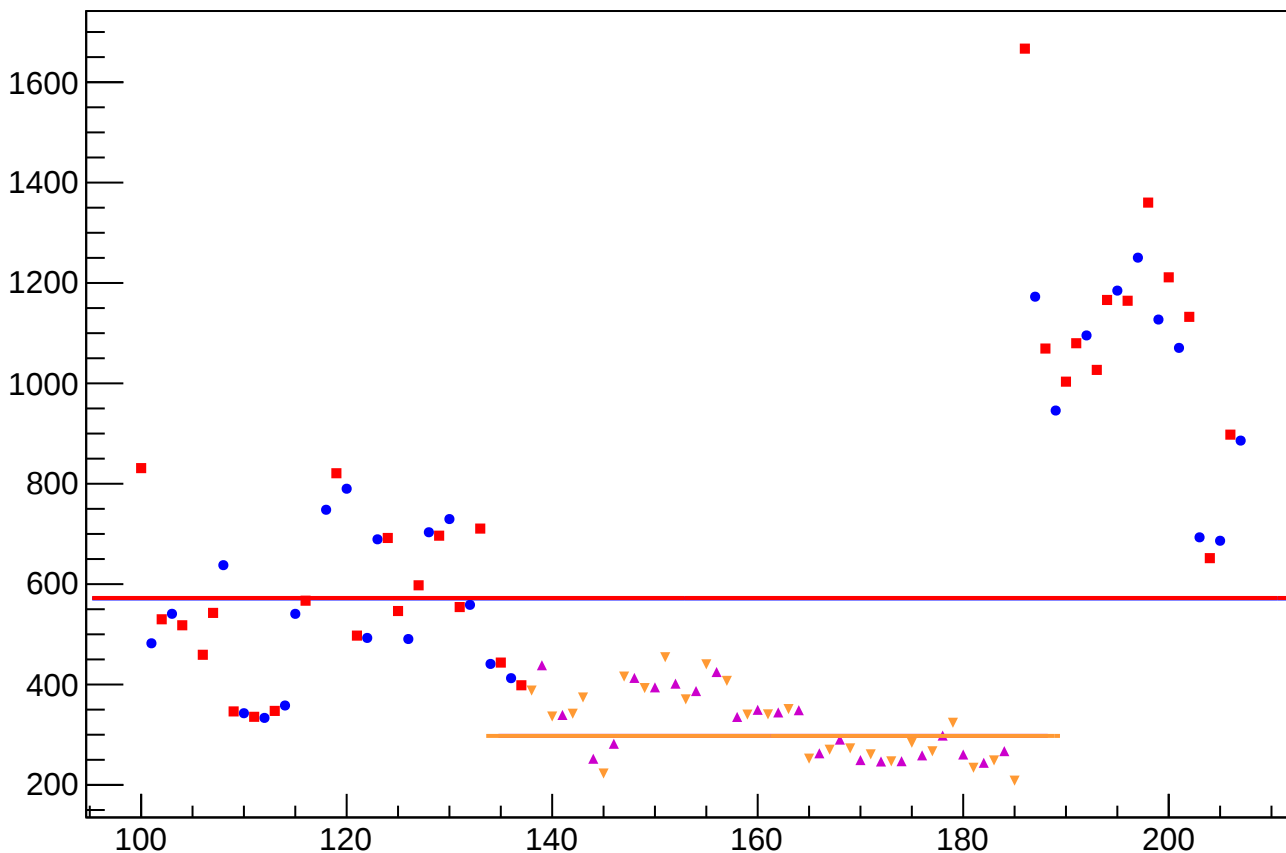
Right: 114.576 ± 116.549 $\chi^2/\text{NDF}: 68.9/57$

In: -88.303 ± 66.744 $\chi^2/\text{NDF}: 70.2/49$

Out: -130.150 ± 65.137 $\chi^2/\text{NDF}: 79.8/55$

All: -109.736 ± 46.616 $\chi^2/\text{NDF}: 150.2/105$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 571.451+/-0.118 χ^2/NDF : 3999296.7/26

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 572.448+/-0.115 χ^2/NDF : 5209067.7/30

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

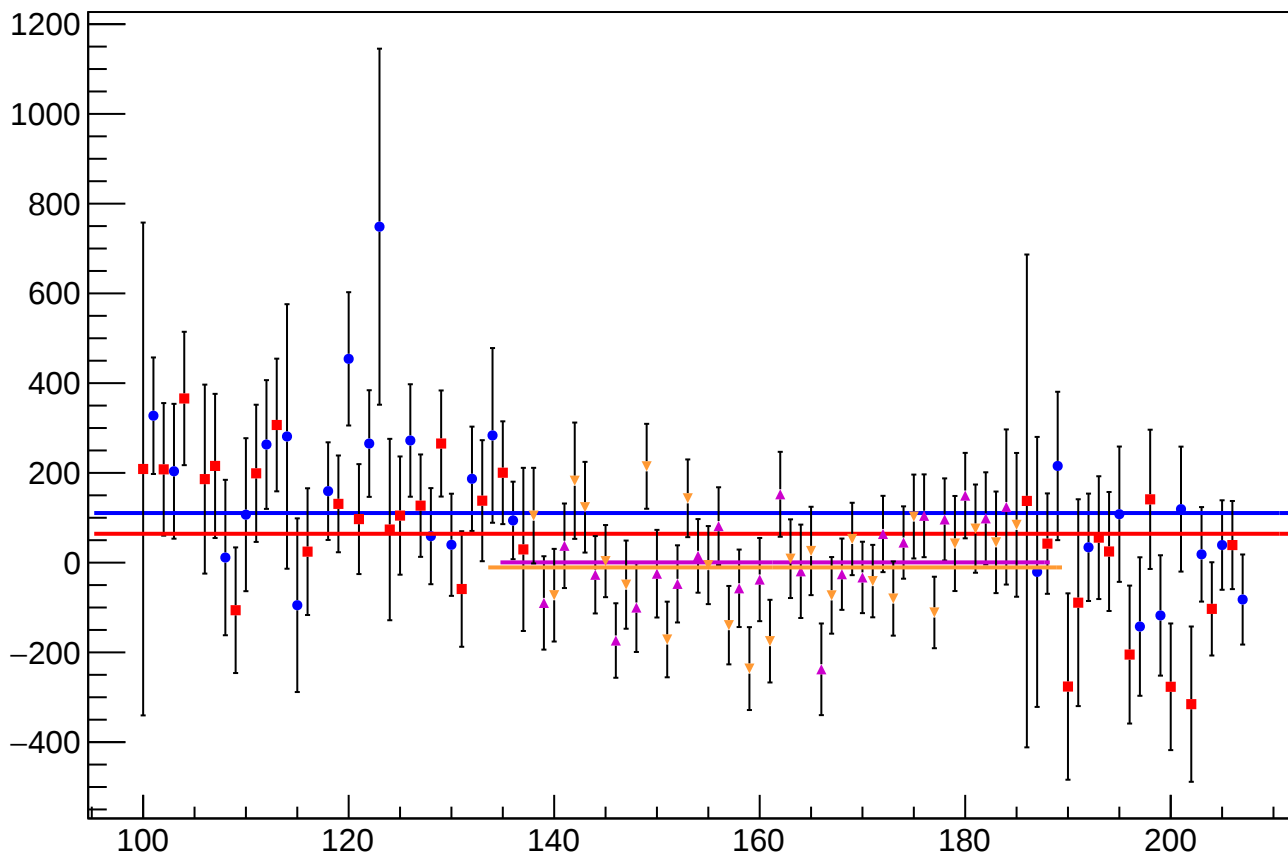
Right: 571.964+/-0.082 χ^2/NDF : 9208401.0/57

In: 341.278+/-0.047 χ^2/NDF : 9768996.1/49

Out: 341.785+/-0.046 χ^2/NDF : 11649811.7/55

All: 341.538+/-0.033 χ^2/NDF : 21418867.0/100

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 110.541 $\pm$ 25.580 χ^2 /NDF: 31.0/26

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 64.317 $\pm$ 25.403 χ^2 /NDF: 37.7/30

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

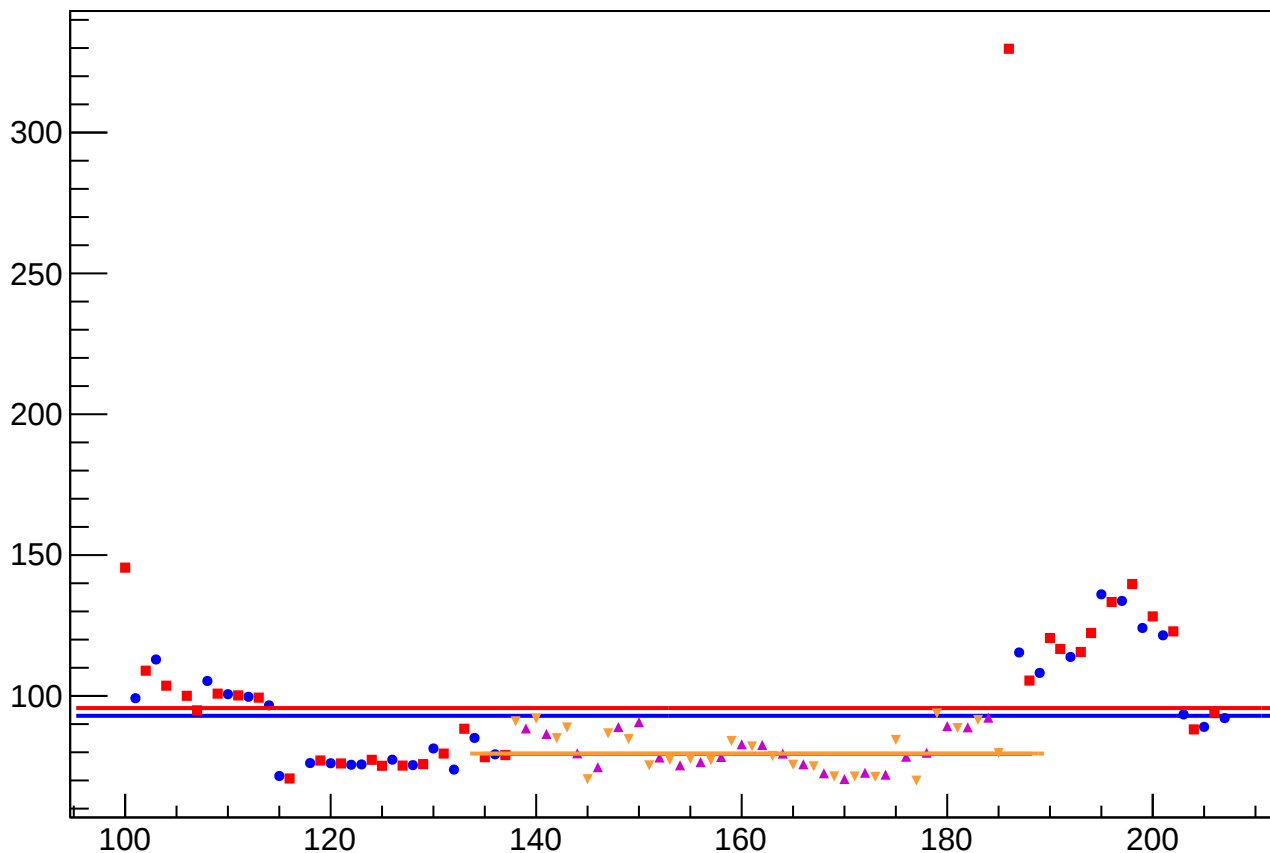
Right: 87.268 $\pm$ 18.025 χ^2 /NDF: 70.4/57

In: 39.914 $\pm$ 15.300 χ^2 /NDF:66.7/49

Out: 15.521 $\pm$ 15.012 χ^2 /NDF:79.7/55

All: 27.486 $\pm$ 10.716 χ^2 /NDF: 147.7/105

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.945+/-0.018 χ^2/NDF : 1003610.7/26

Left Out: 79.551+/-0.013 χ^2/NDF :309075.2/24

Right Out: 95.702+/-0.018 χ^2/NDF : 1499951.8/30

Left In: 79.436+/-0.013 χ^2/NDF :212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

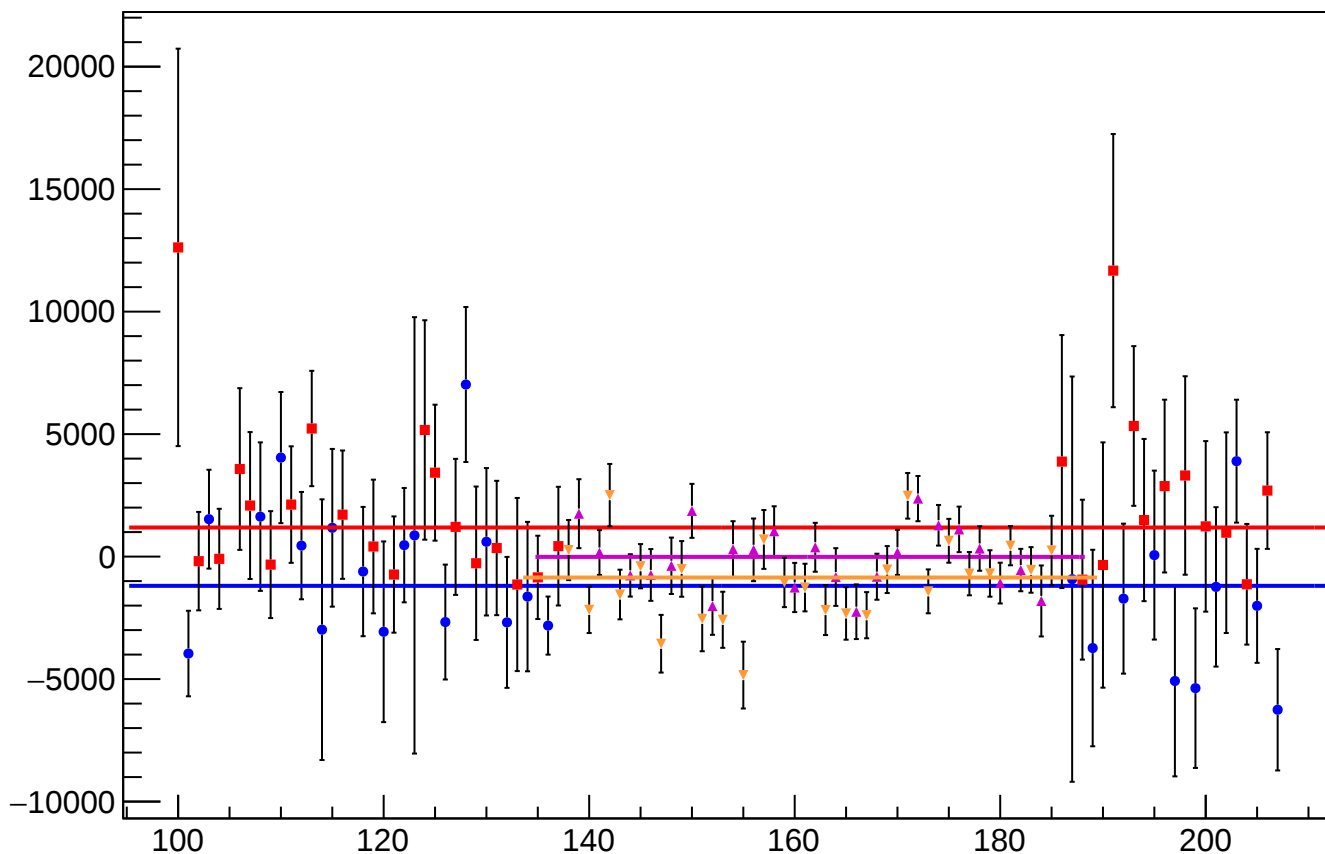
Right: 94.333+/-0.013 χ^2/NDF : 2515262.5/57

In: 84.269+/-0.011 χ^2/NDF :1574268.3/49

Out: 85.192+/-0.011 χ^2/NDF :2335173.0/55

All: 84.739+/-0.008 χ^2/NDF : 3913148.3/105

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1193.435 ± 502.790 $\chi^2/\text{NDF}: 32.4/26$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1188.281 ± 507.378 $\chi^2/\text{NDF}: 19.3/30$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

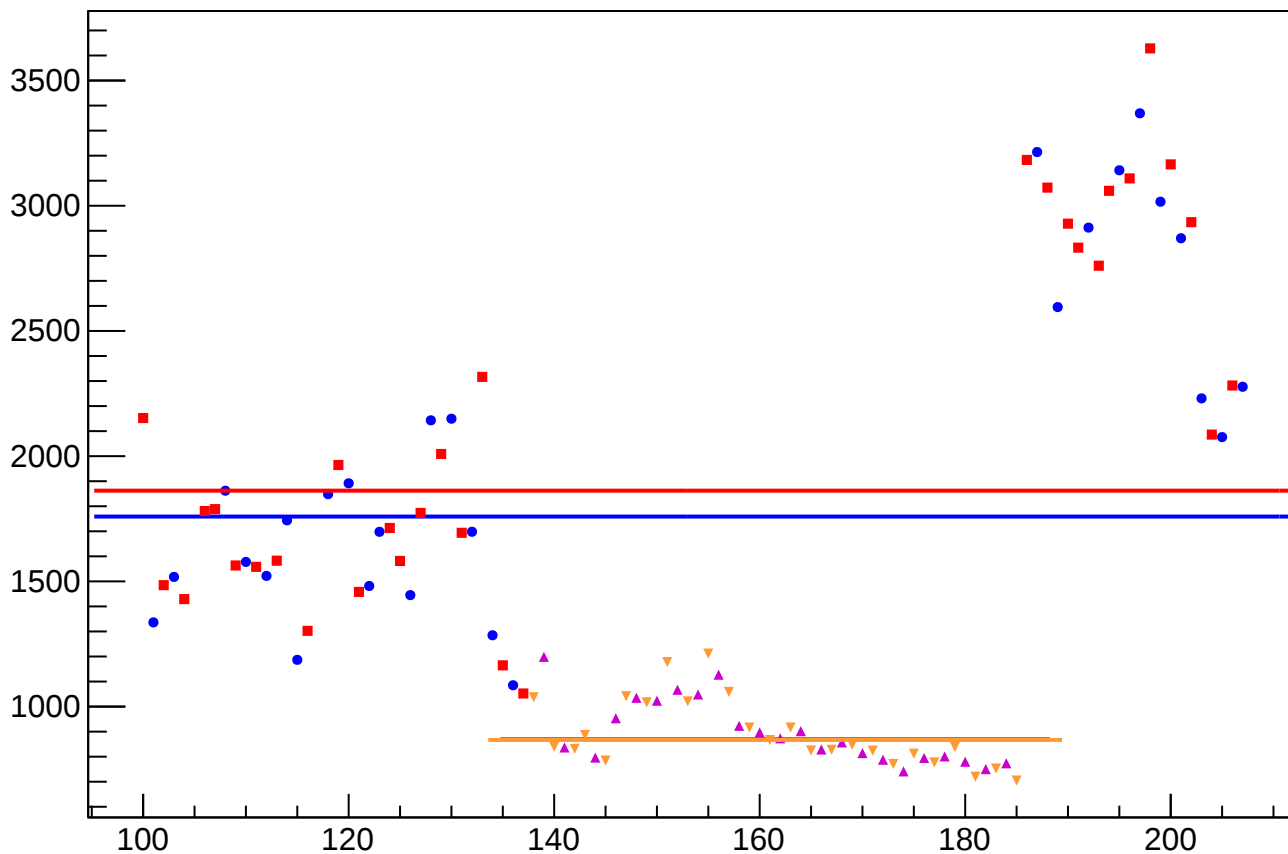
Right: -13.393 ± 357.137 $\chi^2/\text{NDF}: 62.8/57$

In: -187.323 ± 193.834 $\chi^2/\text{NDF}: 68.3/49$

Out: -569.689 ± 189.346 $\chi^2/\text{NDF}: 89.2/55$

All: -382.984 ± 135.447 $\chi^2/\text{NDF}: 159.5/105$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1758.859+/-0.356 χ^2/NDF : 2894600.4/26

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1862.318+/-0.359 χ^2/NDF : 3142826.5/30

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

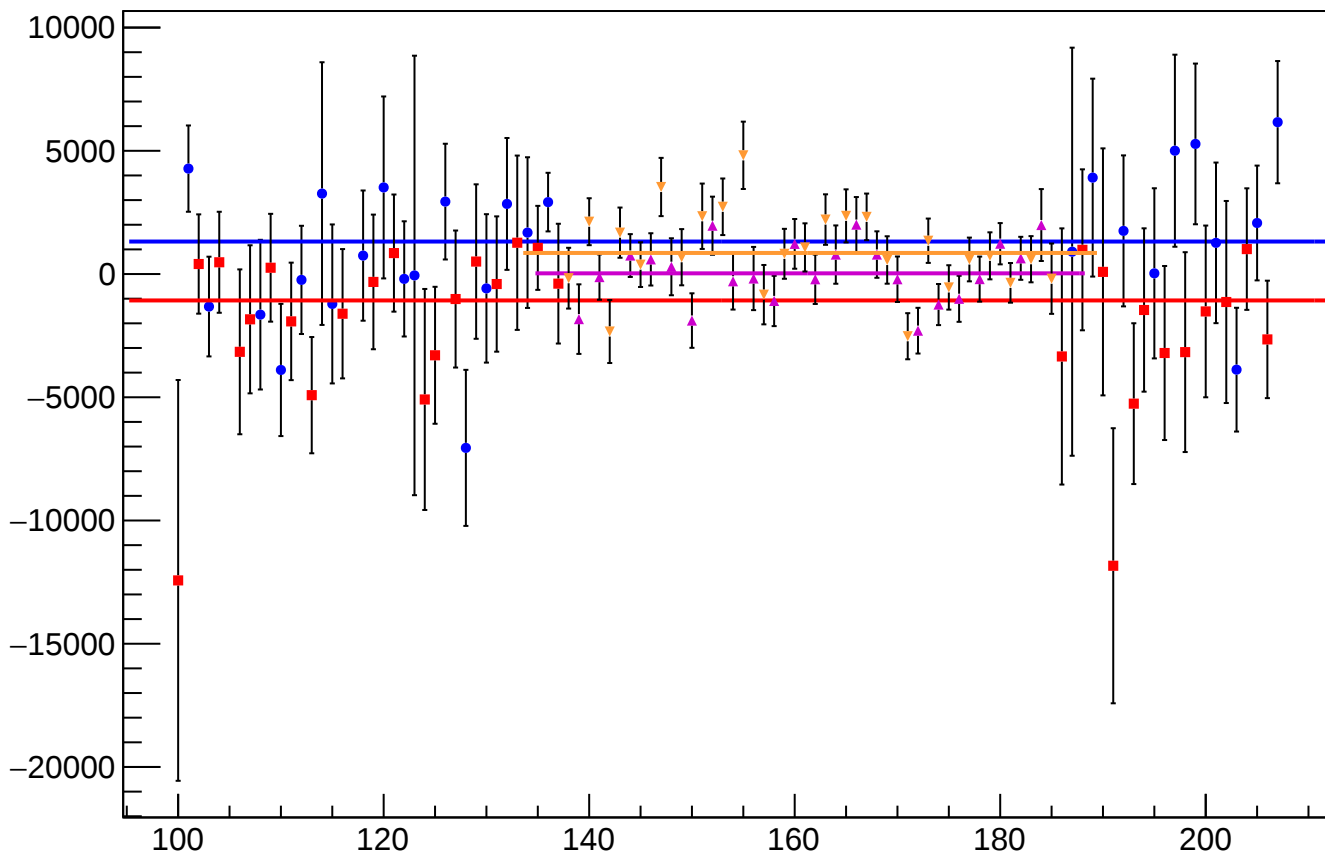
Right: 1810.119+/-0.253 χ^2/NDF : 6079382.9/57

In: 1001.739+/-0.137 χ^2/NDF : 8803690.7/49

Out: 1005.523+/-0.134 χ^2/NDF : 10430545.8/55

All: 1003.675+/-0.096 χ^2/NDF : 19234626.7/104

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1318.599 $\pm$ 503.680 χ^2 /NDF: 32.6/26

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1071.136 $\pm$ 508.362 χ^2 /NDF: 19.1/30

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

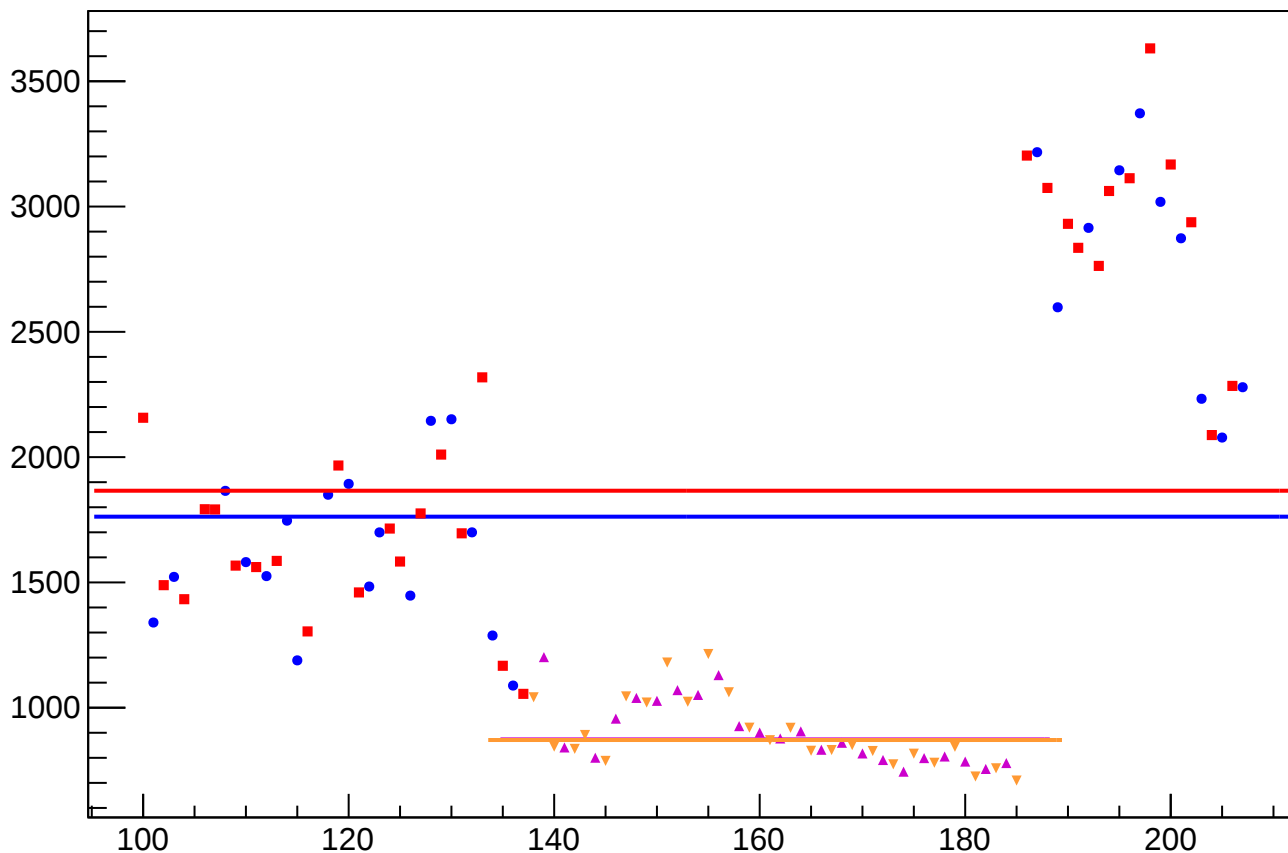
Right: 134.787 $\pm$ 357.799 χ^2 /NDF: 62.8/57

In: 221.199 $\pm$ 194.640 χ^2 /NDF:67.9/49

Out: 586.056 $\pm$ 190.161 χ^2 /NDF:85.5/55

All: 407.874 $\pm$ 136.020 χ^2 /NDF: 155.2/105

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1762.402 $\pm$ 0.356 χ^2/NDF : 2883310.9/26

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1865.943 $\pm$ 0.359 χ^2/NDF : 3134777.8/30

Left In: 873.675 $\pm$ 0.149 χ^2/NDF : 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2/NDF : 1225725.6/47

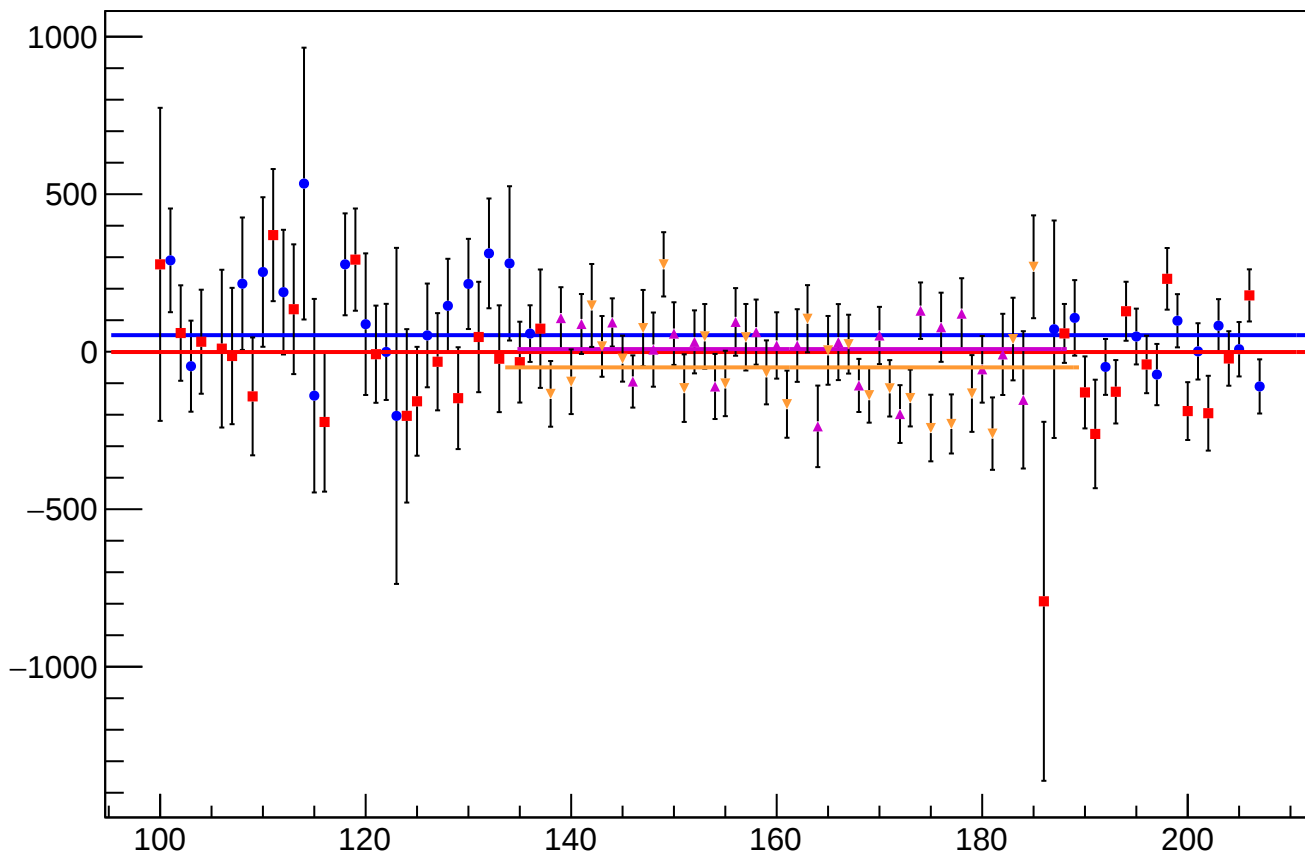
Right: 1813.694 $\pm$ 0.253 χ^2/NDF : 6059956.8/57

In: 1006.391 $\pm$ 0.138 χ^2/NDF : 8753981.4/49

Out: 1010.312 $\pm$ 0.134 χ^2/NDF : 10374053.0/55

All: 1008.397 $\pm$ 0.096 χ^2/NDF : 19128449.6/1

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 52.547 ± 24.337 $\chi^2/\text{NDF}: 20.8/26$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: -1.006 ± 24.151 $\chi^2/\text{NDF}: 38.2/30$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

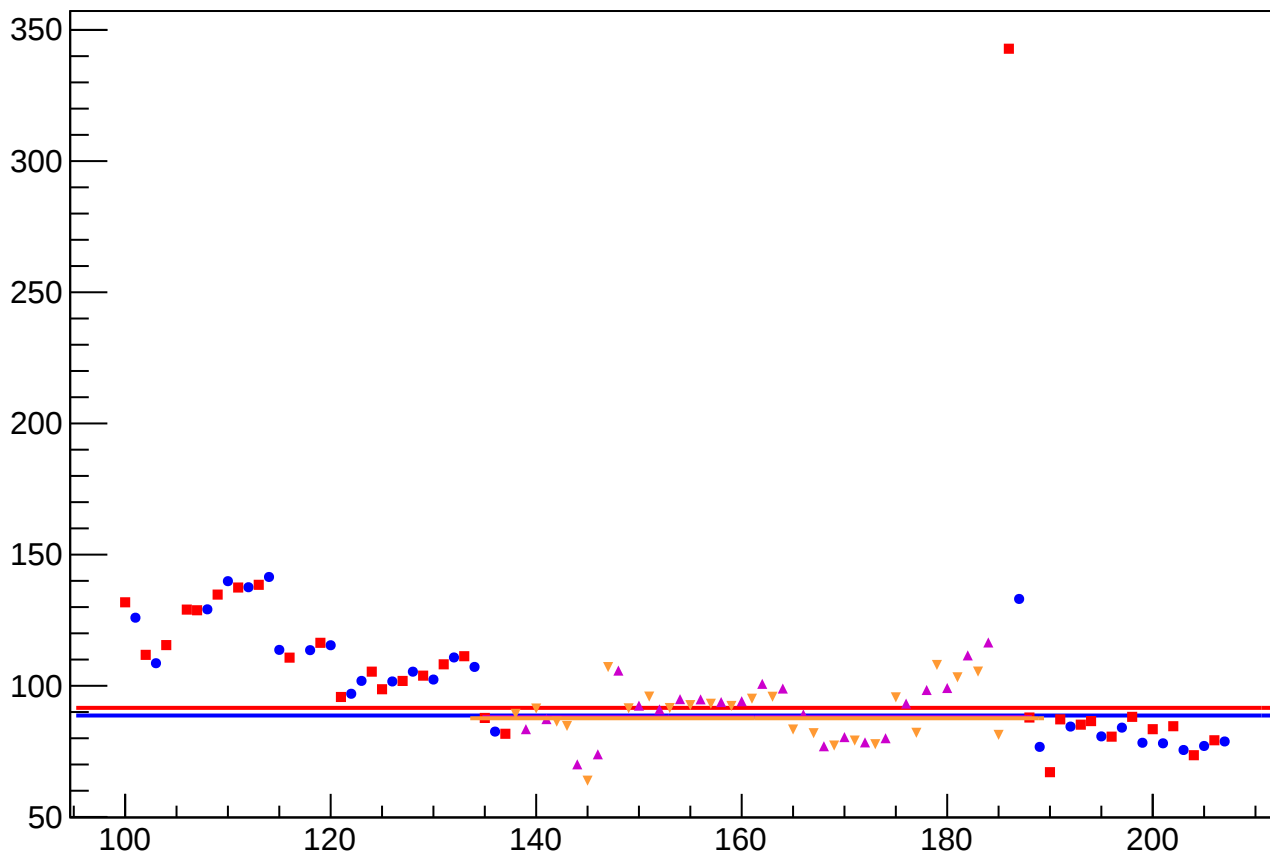
Right: 25.564 ± 17.143 $\chi^2/\text{NDF}: 61.5/57$

In: 27.487 ± 16.016 $\chi^2/\text{NDF}: 44.7/49$

Out: -29.225 ± 15.664 $\chi^2/\text{NDF}: 80.0/55$

All: -1.499 ± 11.199 $\chi^2/\text{NDF}: 131.1/105$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 88.671 $\pm$ 0.017 χ^2 /NDF: 912720.1/26

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 91.592 $\pm$ 0.017 χ^2 /NDF: 1329468.6/30

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

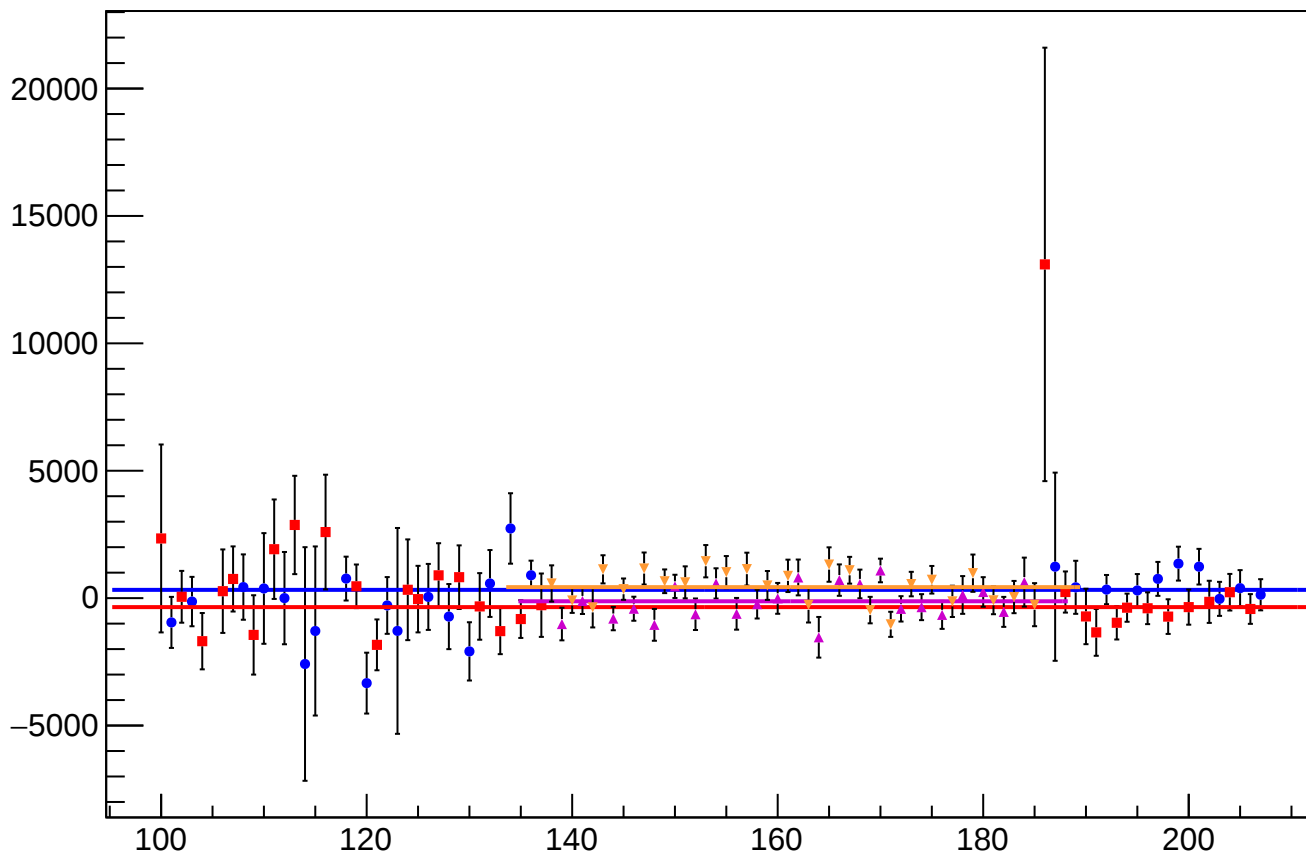
Right: 90.143 $\pm$ 0.012 χ^2 /NDF: 2256699.1/57

In: 88.309 $\pm$ 0.011 χ^2 /NDF: 1437212.6/49

Out: 89.294 $\pm$ 0.011 χ^2 /NDF: 1915406.4/55

All: 88.812 $\pm$ 0.008 χ^2 /NDF: 3356485.8/105

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 324.669 $\pm$ 175.961 χ^2 /NDF: 26.9/26

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -352.428 $\pm$ 168.801 χ^2 /NDF: 22.3/30

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

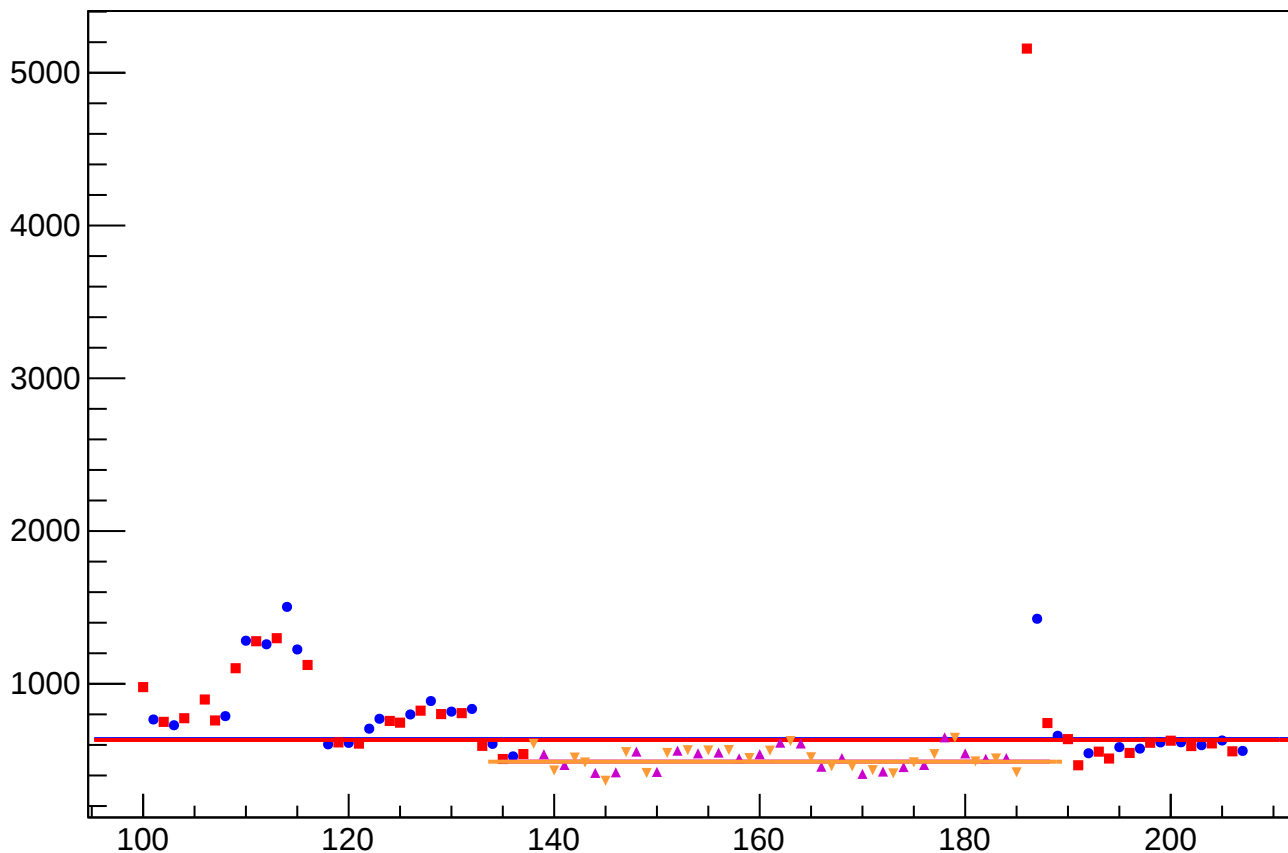
Right: -27.935 $\pm$ 121.813 χ^2 /NDF: 56.9/57

In: 17.236 $\pm$ 98.488 χ^2 /NDF:60.6/49

Out: 181.018 $\pm$ 95.437 χ^2 /NDF:67.4/55

All: 101.703 $\pm$ 68.538 χ^2 /NDF: 129.4/105

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 638.057 ± 0.124 $\chi^2/\text{NDF}: 1135345.3/26$

Left Out: 490.267 ± 0.082 $\chi^2/\text{NDF}: 750277.0/24$

Right Out: 632.479 ± 0.119 $\chi^2/\text{NDF}: 1970811.1/30$

Left In: 490.910 ± 0.084 $\chi^2/\text{NDF}: 589235.5/22$

Left: 490.580 ± 0.059 $\chi^2/\text{NDF}: 1339542.5/47$

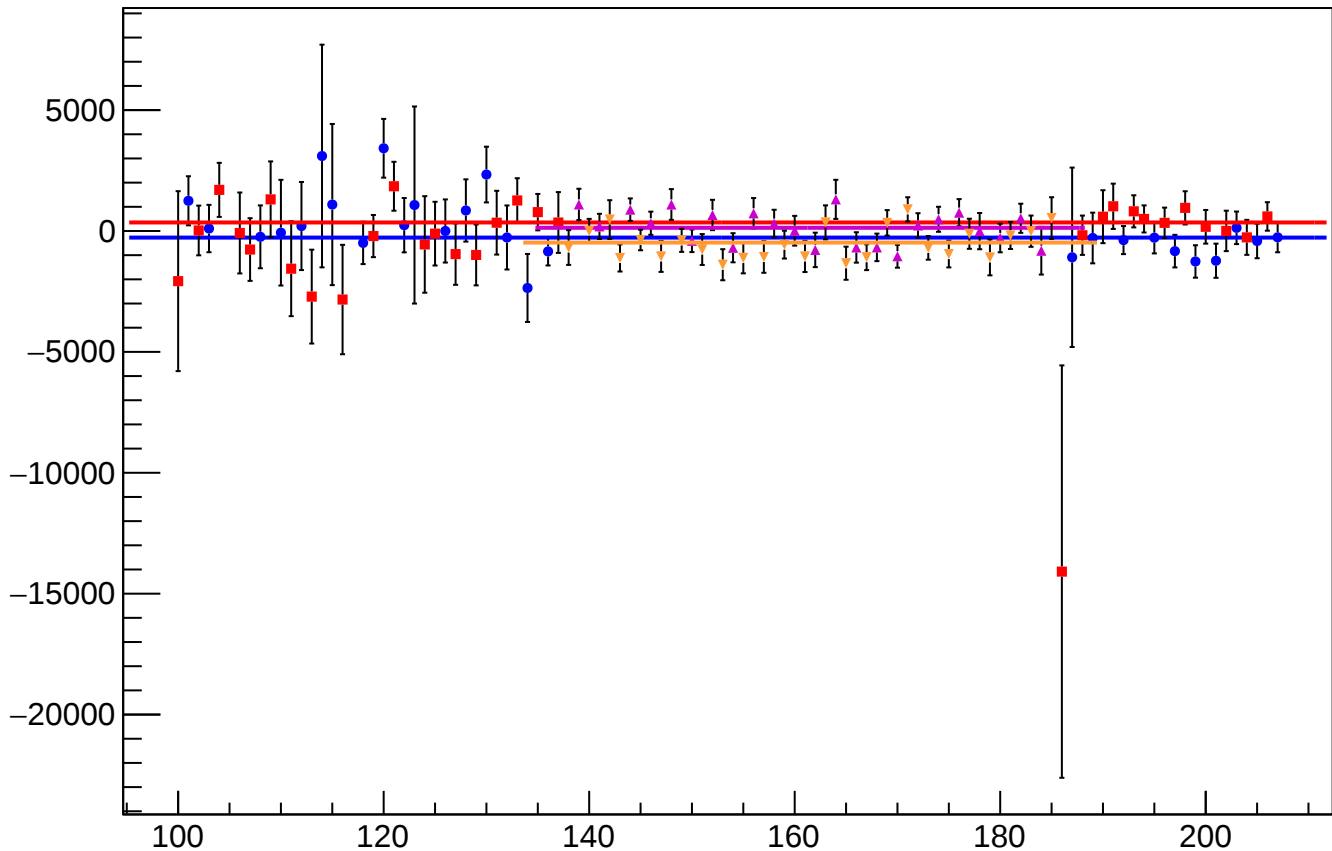
Right: 635.152 ± 0.086 $\chi^2/\text{NDF}: 3107203.2/57$

In: 537.009 ± 0.070 $\chi^2/\text{NDF}: 2685049.7/49$

Out: 535.726 ± 0.067 $\chi^2/\text{NDF}: 3686874.9/55$

All: 536.347 ± 0.048 $\chi^2/\text{NDF}: 6372099.5/105$

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -272.959+/-177.839 χ^2/NDF : 27.1/26

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 352.700+/-170.775 χ^2/NDF : 21.3/30

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

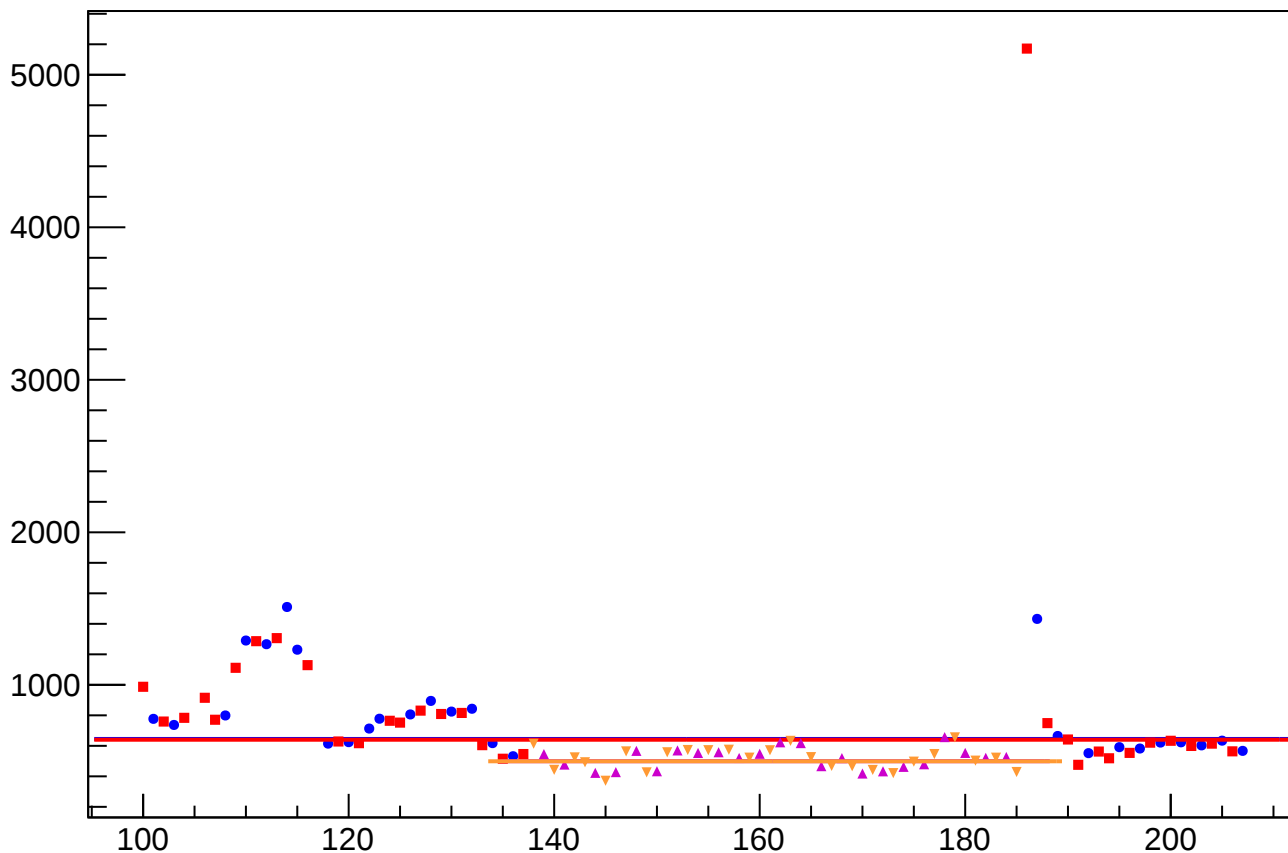
Right: 52.543+/-123.177 χ^2/NDF : 54.8/57

In: 4.419+/-99.964 χ^2/NDF : 60.2/49

Out: -210.741+/-96.889 χ^2/NDF : 65.2/55

All: -106.521+/-69.573 χ^2/NDF : 127.8/105

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 645.049 $\pm$ 0.126 χ^2 /NDF: 1124642.1/26

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 640.141 $\pm$ 0.121 χ^2 /NDF: 1950577.3/30

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

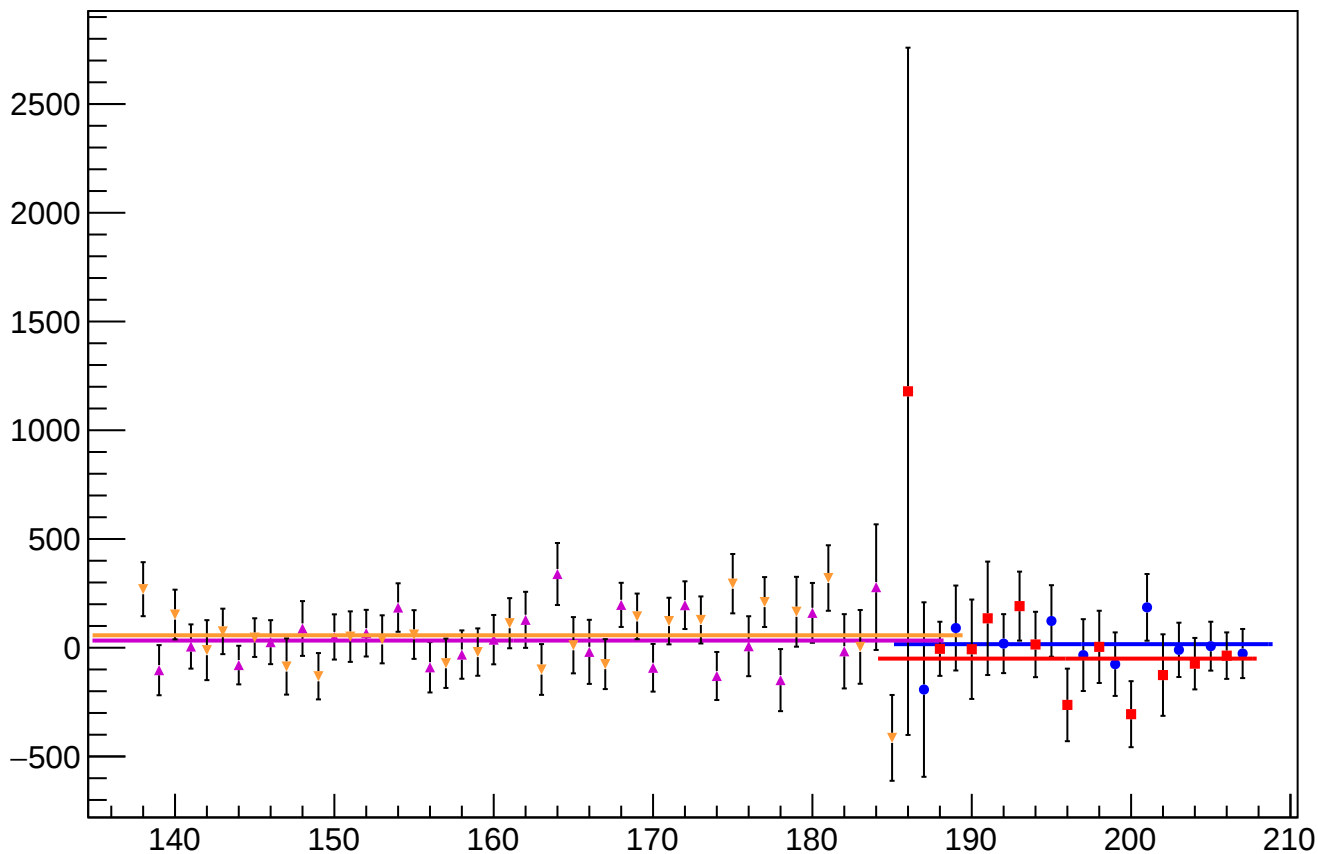
Right: 642.495 $\pm$ 0.087 χ^2 /NDF: 3076012.0/57

In: 545.415 $\pm$ 0.071 χ^2 /NDF: 2618908.4/49

Out: 544.265 $\pm$ 0.069 χ^2 /NDF: 3614490.4/55

All: 544.822 $\pm$ 0.049 χ^2 /NDF: 6233535.2/105

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 16.350 ± 46.056 $\chi^2/\text{NDF}: 2.7/9$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -50.025 ± 45.366 $\chi^2/\text{NDF}: 8.6/11$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

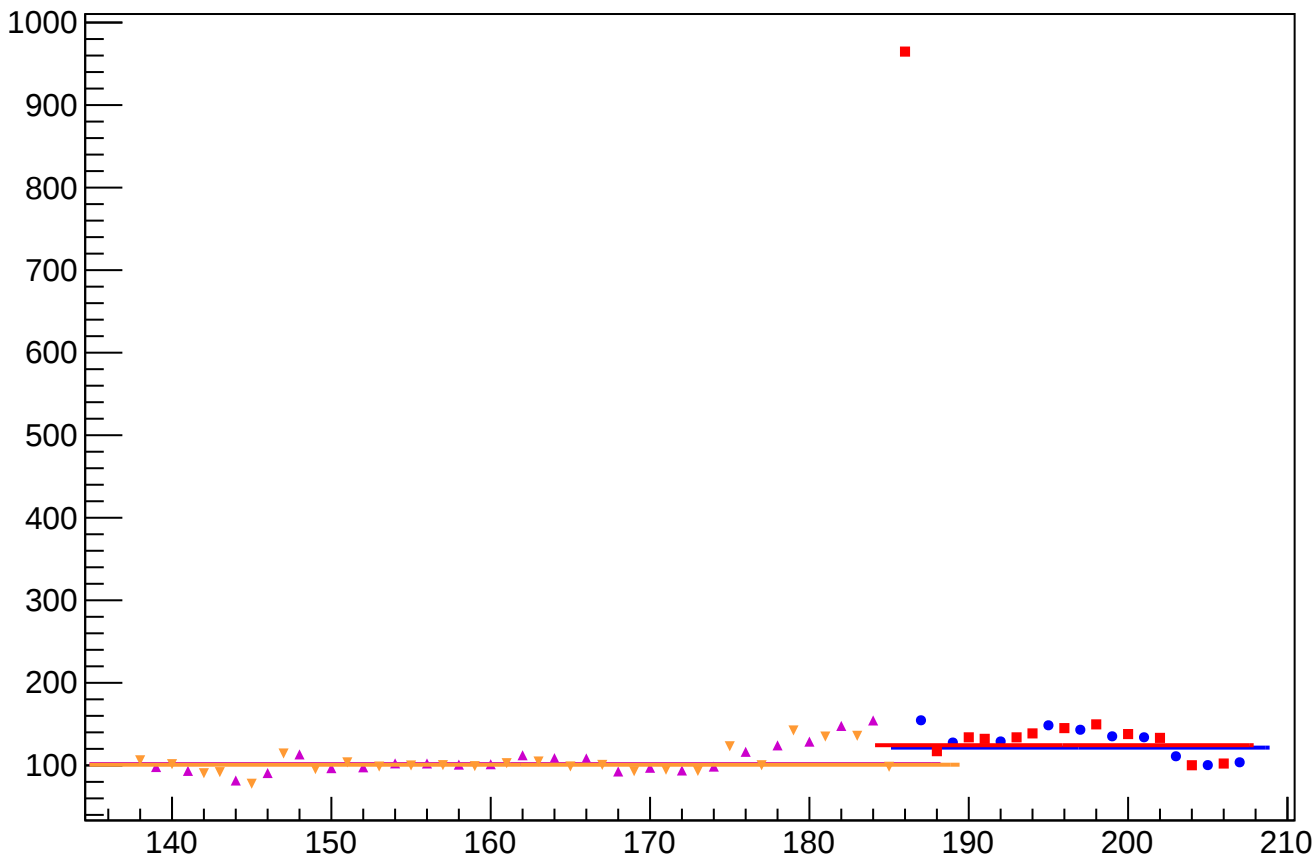
Right: -17.338 ± 32.320 $\chi^2/\text{NDF}: 12.4/21$

In: 29.267 ± 21.690 $\chi^2/\text{NDF}: 26.5/32$

Out: 34.198 ± 21.016 $\chi^2/\text{NDF}: 42.1/36$

All: 31.810 ± 15.093 $\chi^2/\text{NDF}: 68.6/69$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 121.509 $\pm$ 0.033 χ^2/NDF : 275738.4/9

Left Out: 100.801 $\pm$ 0.017 χ^2/NDF : 600502.4/24

Right Out: 124.421 $\pm$ 0.032 χ^2/NDF : 870975.6/11

Left In: 101.622 $\pm$ 0.017 χ^2/NDF : 582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2/NDF : 1183987.6/47

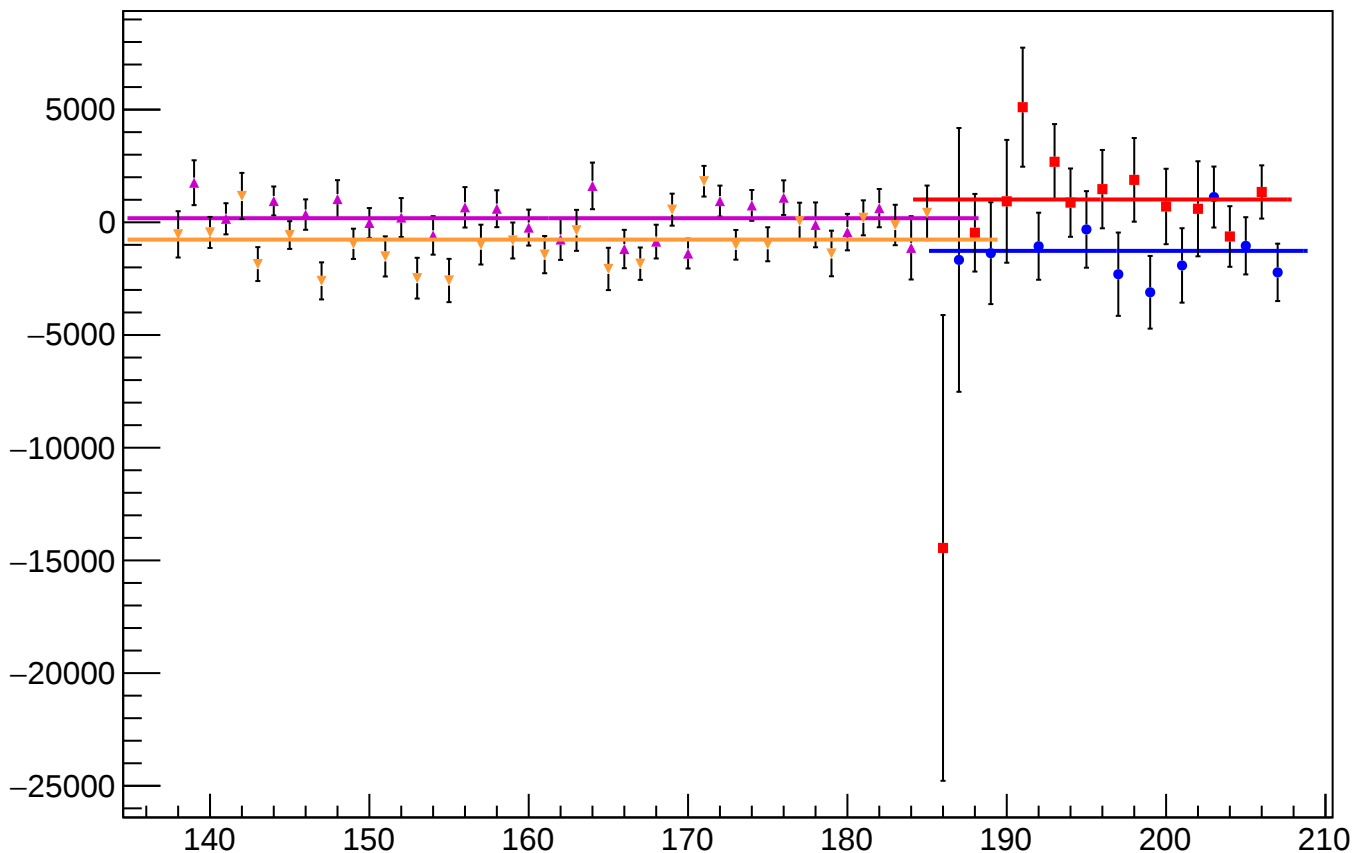
Right: 122.987 $\pm$ 0.023 χ^2/NDF : 1150772.7/21

In: 106.033 $\pm$ 0.015 χ^2/NDF : 1148282.4/32

Out: 105.870 $\pm$ 0.015 χ^2/NDF : 1897325.6/36

All: 105.949 $\pm$ 0.011 χ^2/NDF : 3045666.3/69

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected

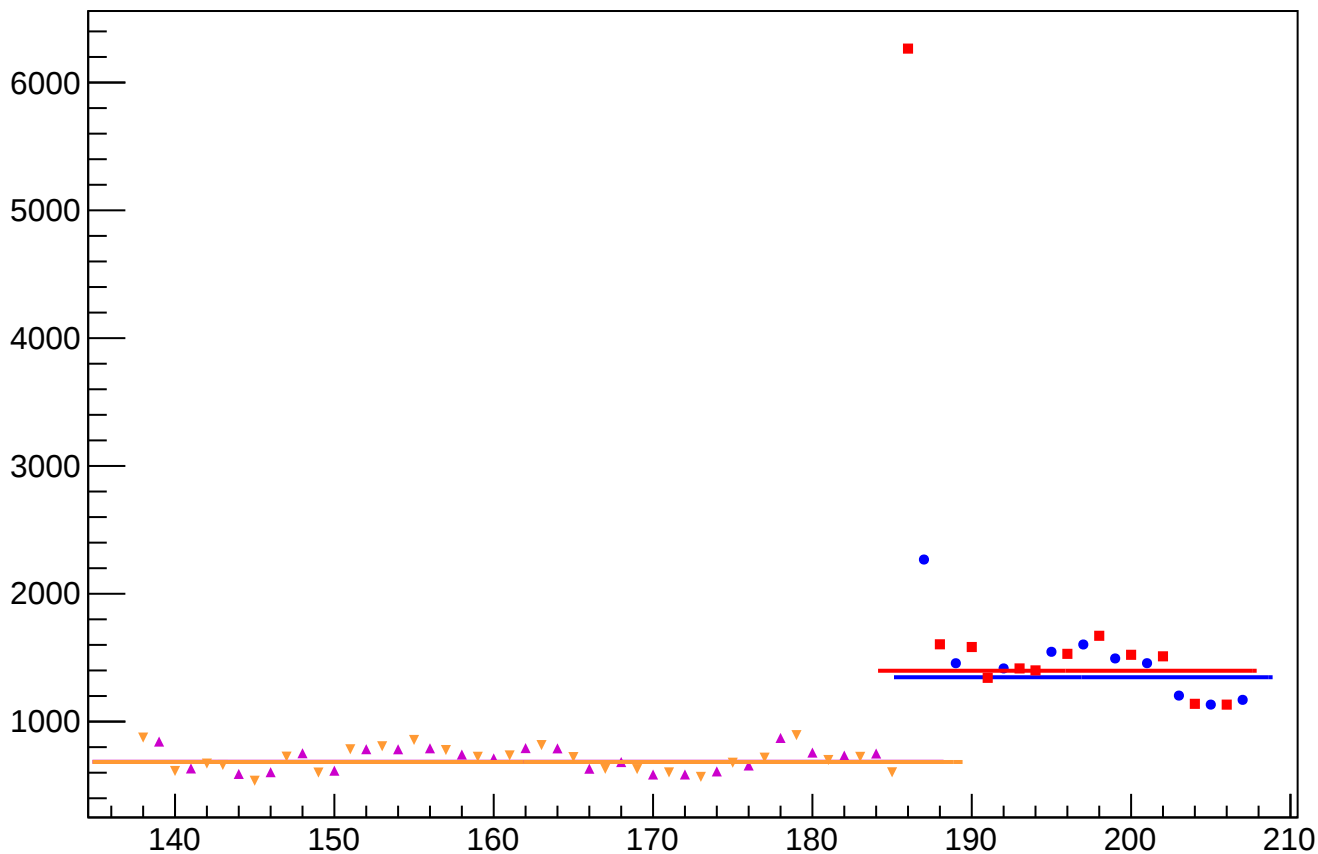


Left: -305.743 $\pm$ 115.485 χ^2/NDF : 88.4/47
 Right: -120.727 $\pm$ 359.347 χ^2/NDF : 24.2/21

Right In: -1266.639 $\pm$ 509.497 χ^2/NDF : 5.8/9
 Left Out: -766.358 $\pm$ 161.066 χ^2/NDF : 46.5/24
 Right Out: 1013.539 $\pm$ 506.901 χ^2/NDF : 8.3/11
 Left In: 181.584 $\pm$ 165.671 χ^2/NDF : 25.0/22

In: 43.101 $\pm$ 157.551 χ^2/NDF : 38.1/32
 Out: -603.133 $\pm$ 153.503 χ^2/NDF : 66.1/36
 All: -288.423 $\pm$ 109.946 χ^2/NDF : 112.8/69

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1346.919+/-0.360 χ^2/NDF : 268001.4/9

Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24

Right Out: 1397.721+/-0.358 χ^2/NDF : 730039.5/11

Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47

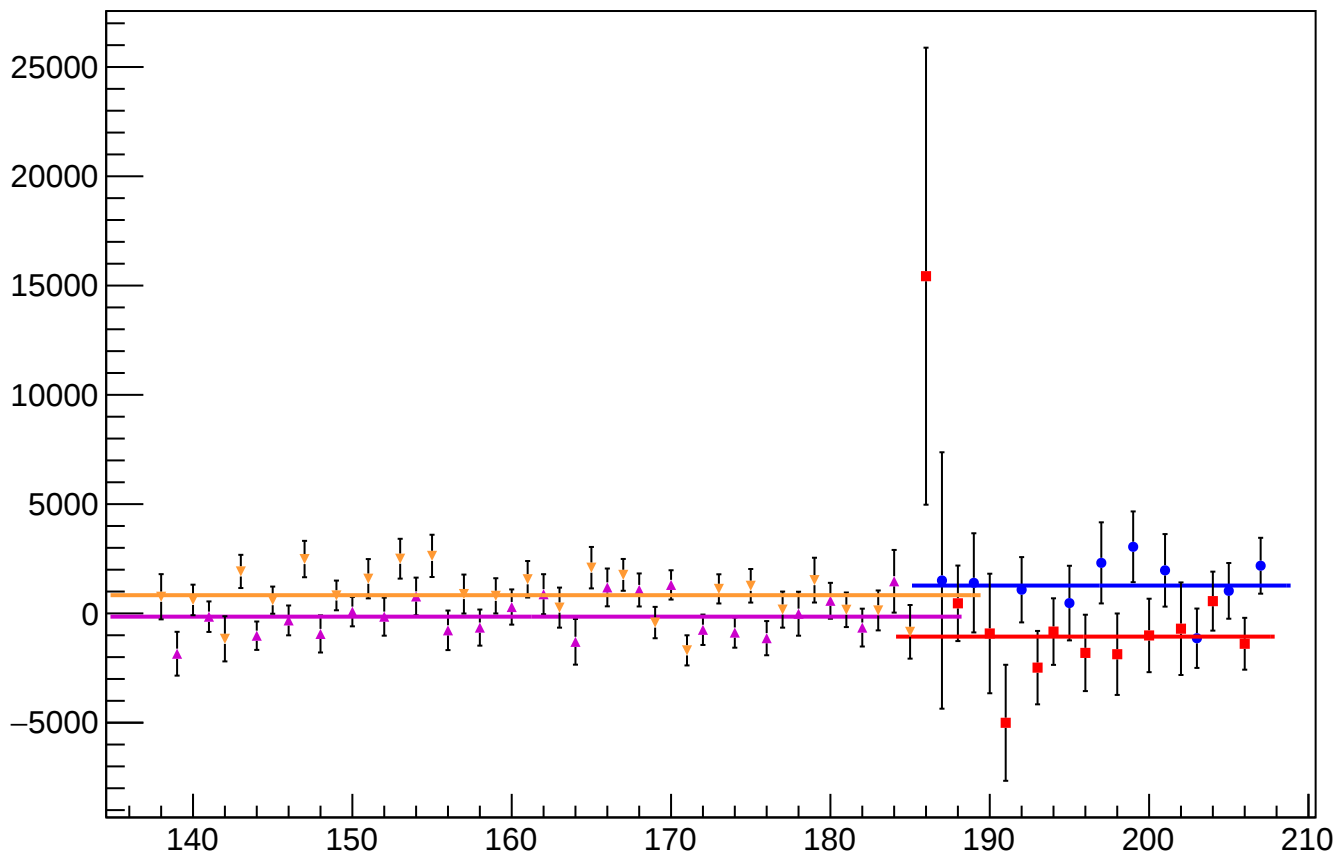
Right: 1372.450+/-0.254 χ^2/NDF : 1008033.9/21

In: 748.830+/-0.111 χ^2/NDF : 3844746.6/32

Out: 749.346+/-0.109 χ^2/NDF : 4999735.8/36

All: 749.095+/-0.078 χ^2/NDF : 8844493.4/69

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1273.829+/-511.669 χ^2/NDF : 5.6/9

Left Out: 833.395+/-162.965 χ^2/NDF : 43.2/24

Right Out: -1062.016+/-509.084 χ^2/NDF : 8.1/11

Left In: -148.814+/-167.644 χ^2/NDF : 26.0/22

Left: 356.189+/-116.853 χ^2/NDF : 86.9/47

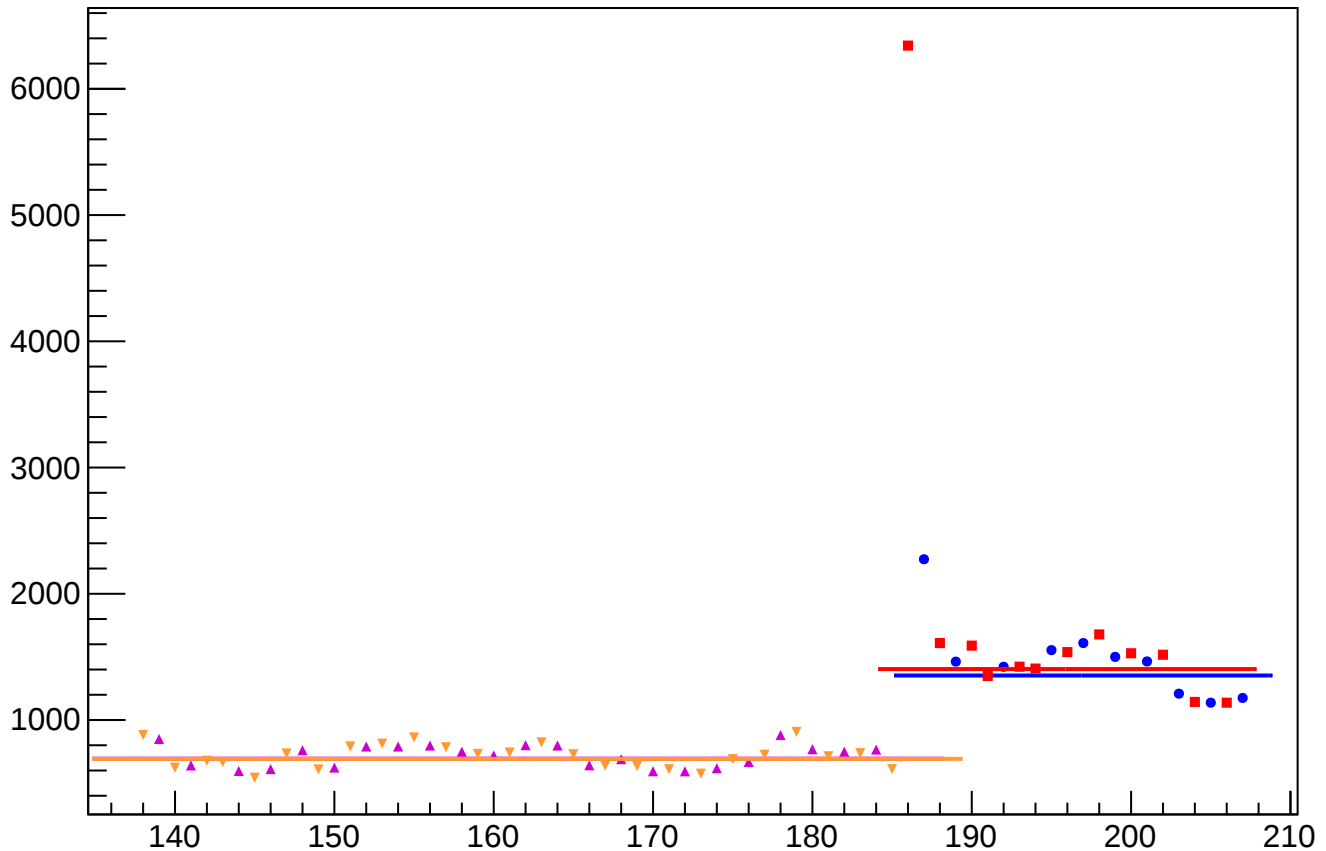
Right: 99.991+/-360.887 χ^2/NDF : 24.2/21

In: -10.899+/-159.311 χ^2/NDF : 38.6/32

Out: 657.219+/-155.207 χ^2/NDF : 63.9/36

All: 331.877+/-111.170 χ^2/NDF : 111.6/69

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Left: 692.957 +/- 0.083 χ^2/NDF : 1179427.7/47

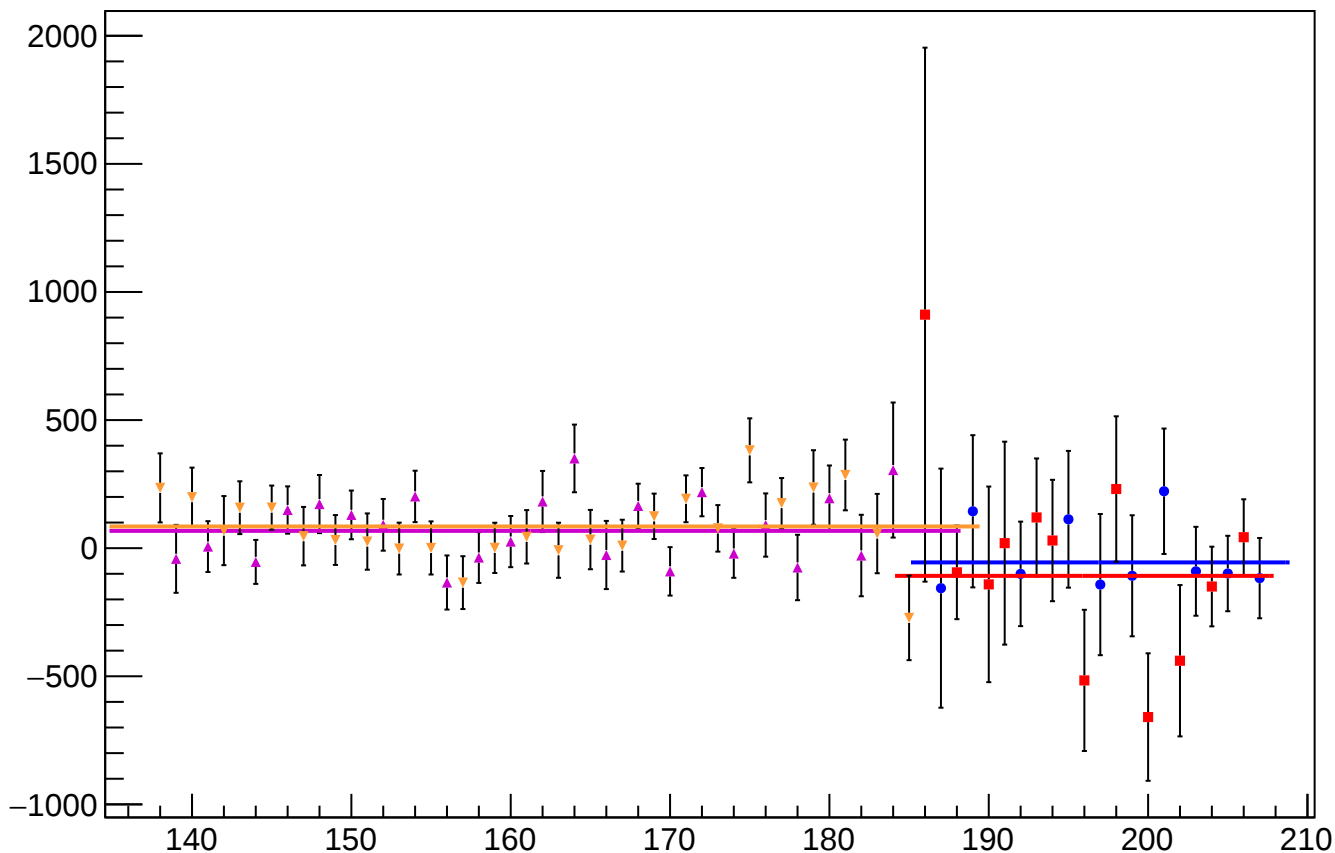
Right: 1378.305 +/- 0.255 χ^2/NDF : 1010613.6/21

In: 757.732 +/- 0.113 χ^2/NDF : 3784532.2/32

Out: 758.238 +/- 0.110 χ^2/NDF : 4933940.3/36

All: 757.992 +/- 0.079 χ^2/NDF : 8718482.8/69

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -55.565 ± 67.139 $\chi^2/\text{NDF}: 2.7/9$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -108.080 ± 67.266 $\chi^2/\text{NDF}: 13.3/11$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

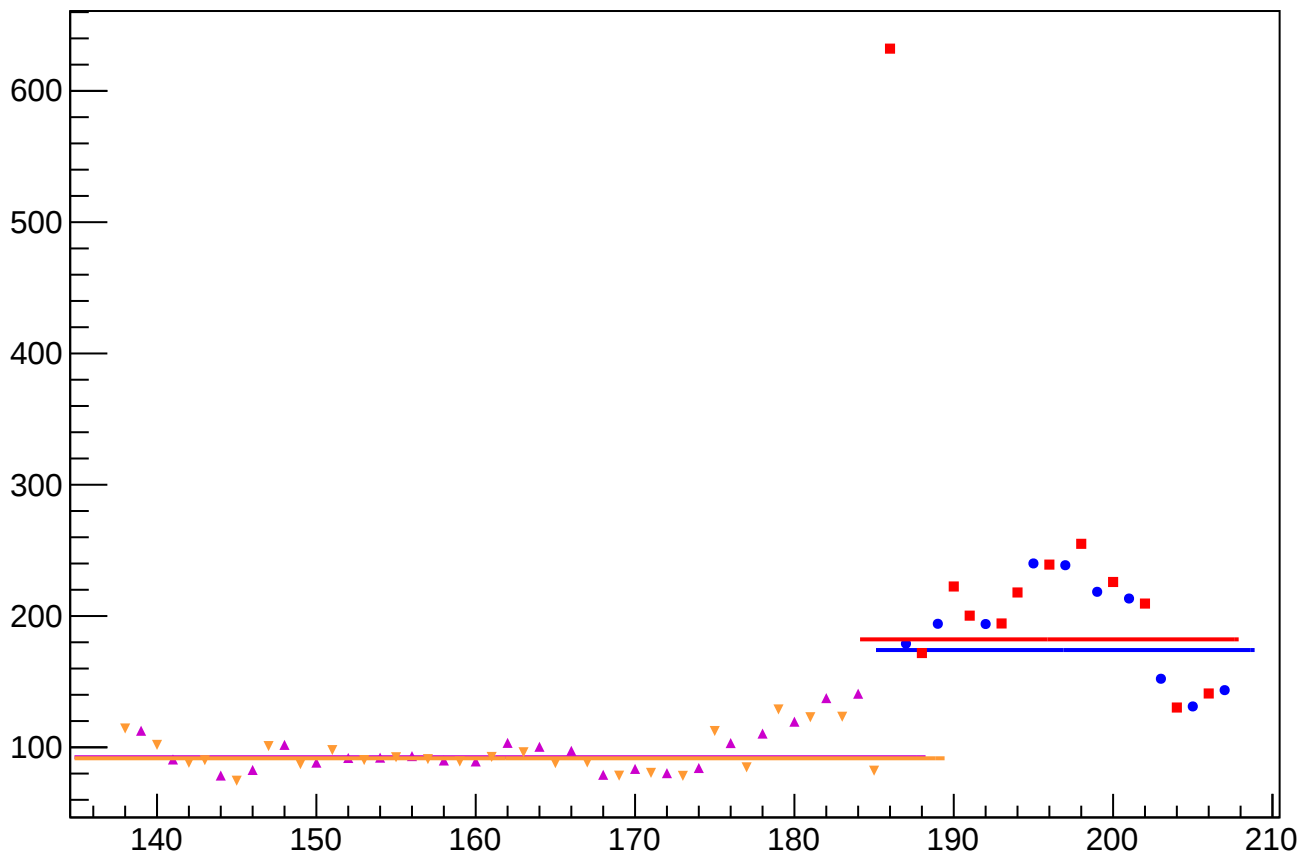
Right: -81.773 ± 47.519 $\chi^2/\text{NDF}: 16.3/21$

In: 55.171 ± 21.291 $\chi^2/\text{NDF}: 34.5/32$

Out: 66.760 ± 20.603 $\chi^2/\text{NDF}: 49.2/36$

All: 61.156 ± 14.806 $\chi^2/\text{NDF}: 83.9/69$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 174.094 $\pm$ 0.047 χ^2 /NDF: 660224.5/9

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 182.229 $\pm$ 0.048 χ^2 /NDF: 1130803.9/11

Left In: 92.466 $\pm$ 0.016 χ^2 /NDF: 655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2 /NDF: 1350250.3/47

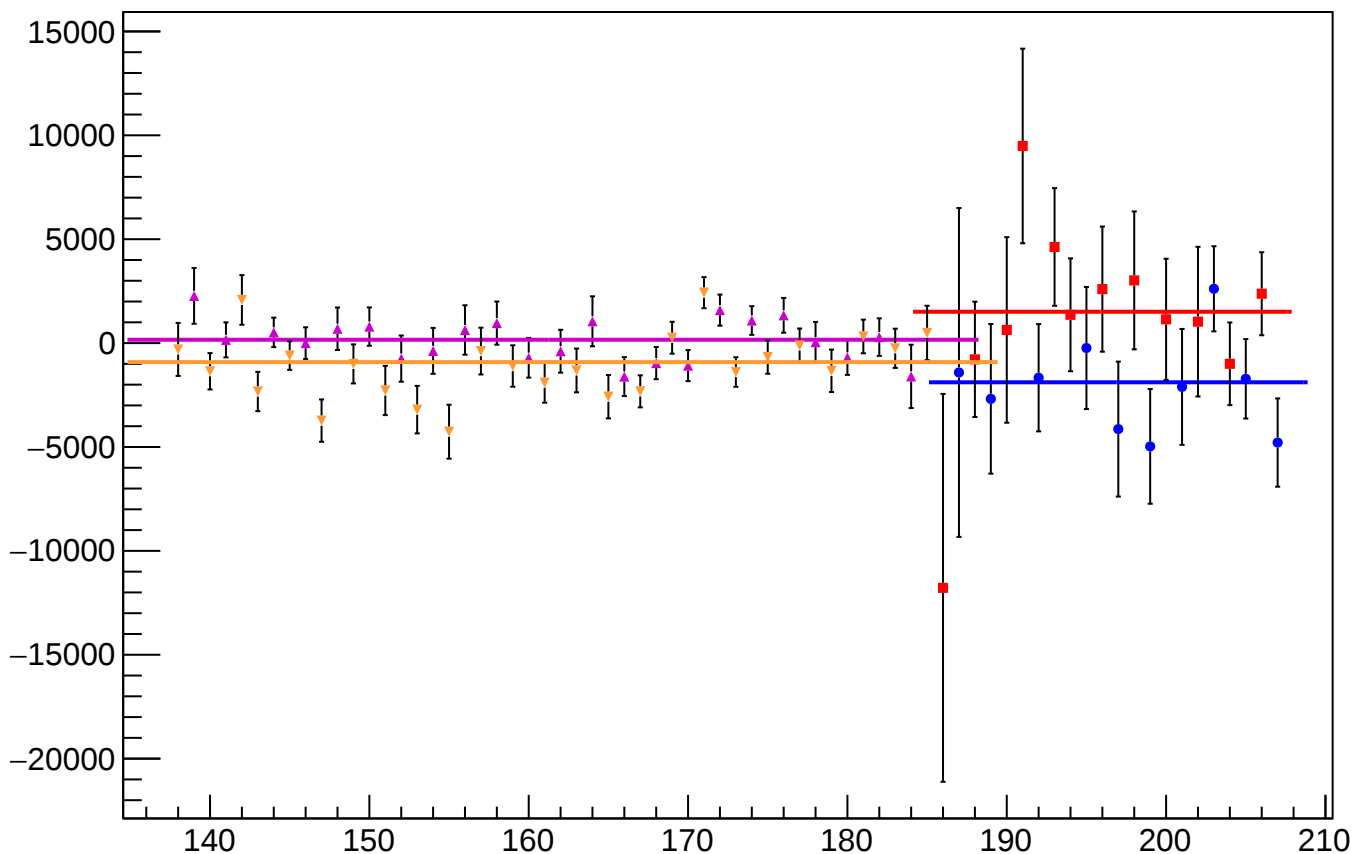
Right: 178.154 $\pm$ 0.034 χ^2 /NDF: 1805680.6/21

In: 100.675 $\pm$ 0.015 χ^2 /NDF: 3975034.2/32

Out: 100.132 $\pm$ 0.015 χ^2 /NDF: 5111503.2/36

All: 100.394 $\pm$ 0.010 χ^2 /NDF: 9087208.9/69

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1886.267 $\pm$ 831.415 χ^2 /NDF: 8.8/9

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF: 64.2/24

Right Out: 1508.618 $\pm$ 846.333 χ^2 /NDF: 9.0/11

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF: 25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

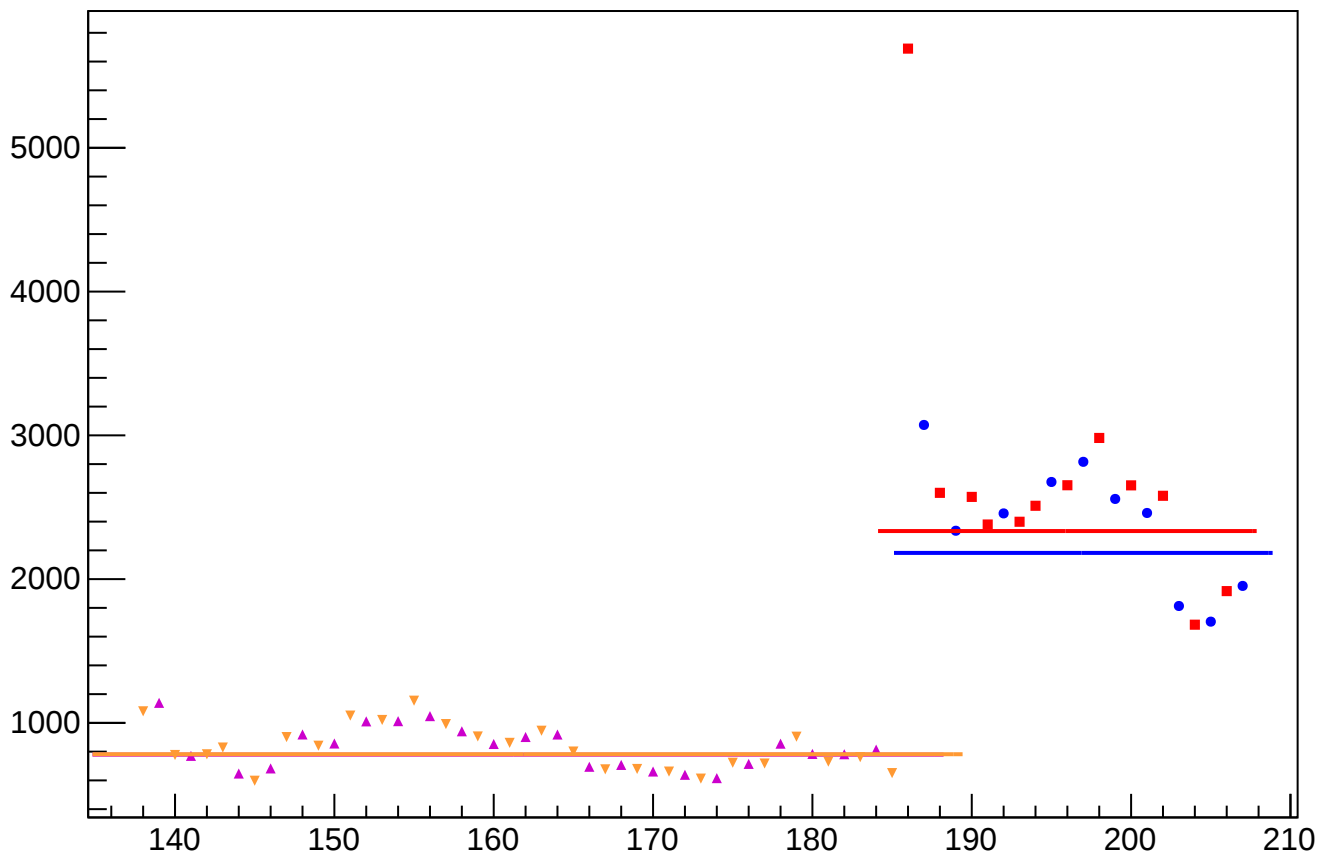
Right: -219.008 $\pm$ 593.103 χ^2 /NDF: 26.0/21

In: 59.980 $\pm$ 184.753 χ^2 /NDF: 39.7/32

Out: -803.820 $\pm$ 181.050 χ^2 /NDF: 81.0/36

All: -380.663 $\pm$ 129.311 χ^2 /NDF: 131.8/69

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2182.333 $\pm$ 0.588 χ^2 /NDF: 454222.7/9

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF:1130984.3/24

Right Out: 2334.389 $\pm$ 0.598 χ^2 /NDF: 725414.9/11

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF:980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

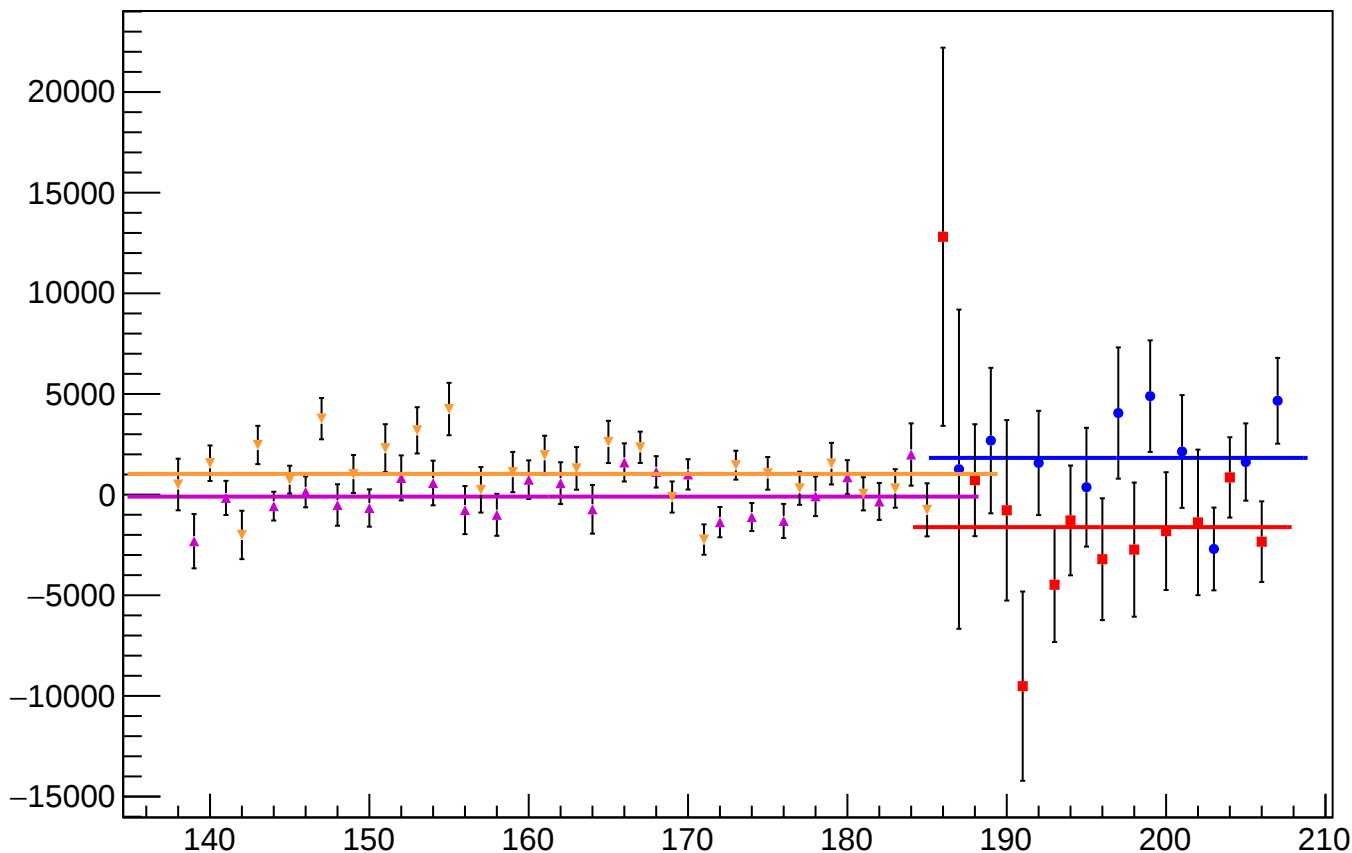
Right: 2257.009 $\pm$ 0.419 χ^2 /NDF: 1212490.9/21

In: 848.291 $\pm$ 0.131 χ^2 /NDF:6851063.9/32

Out: 853.082 $\pm$ 0.128 χ^2 /NDF:8277087.4/36

All: 850.735 $\pm$ 0.091 χ^2 /NDF: 15128837.4/69

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1824.881 $\pm$ 834.346 χ^2 /NDF: 8.6/9

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -1615.058 $\pm$ 849.285 χ^2 /NDF: 9.0/11

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

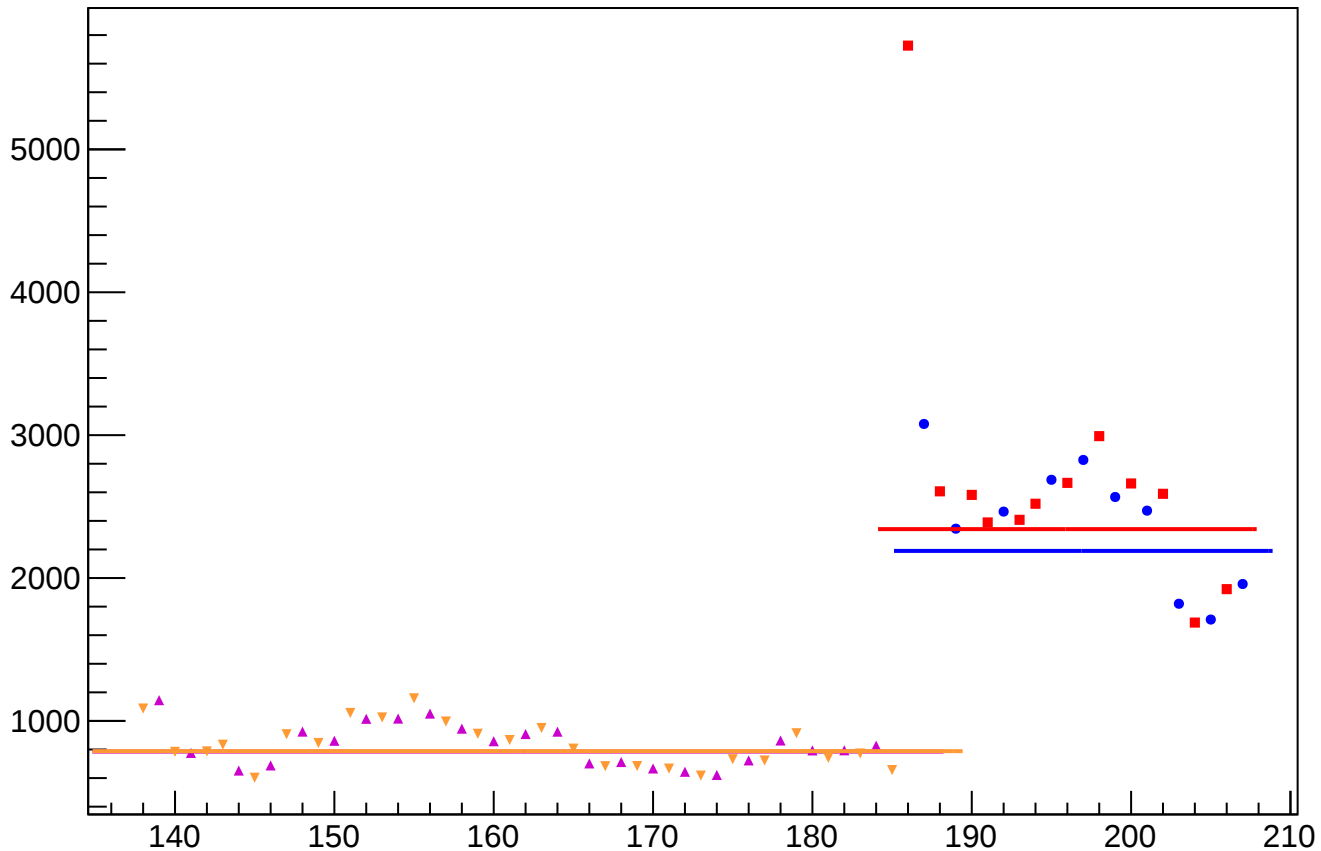
Right: 135.433 $\pm$ 595.183 χ^2 /NDF: 26.0/21

In: -2.880 $\pm$ 186.209 χ^2 /NDF:39.1/32

Out: 906.846 $\pm$ 182.449 χ^2 /NDF:78.4/36

All: 461.261 $\pm$ 130.320 χ^2 /NDF: 129.7/69

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2189.928 $\pm$ 0.590 χ^2 /NDF: 455571.2/9

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2342.342 $\pm$ 0.601 χ^2 /NDF: 728107.4/11

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

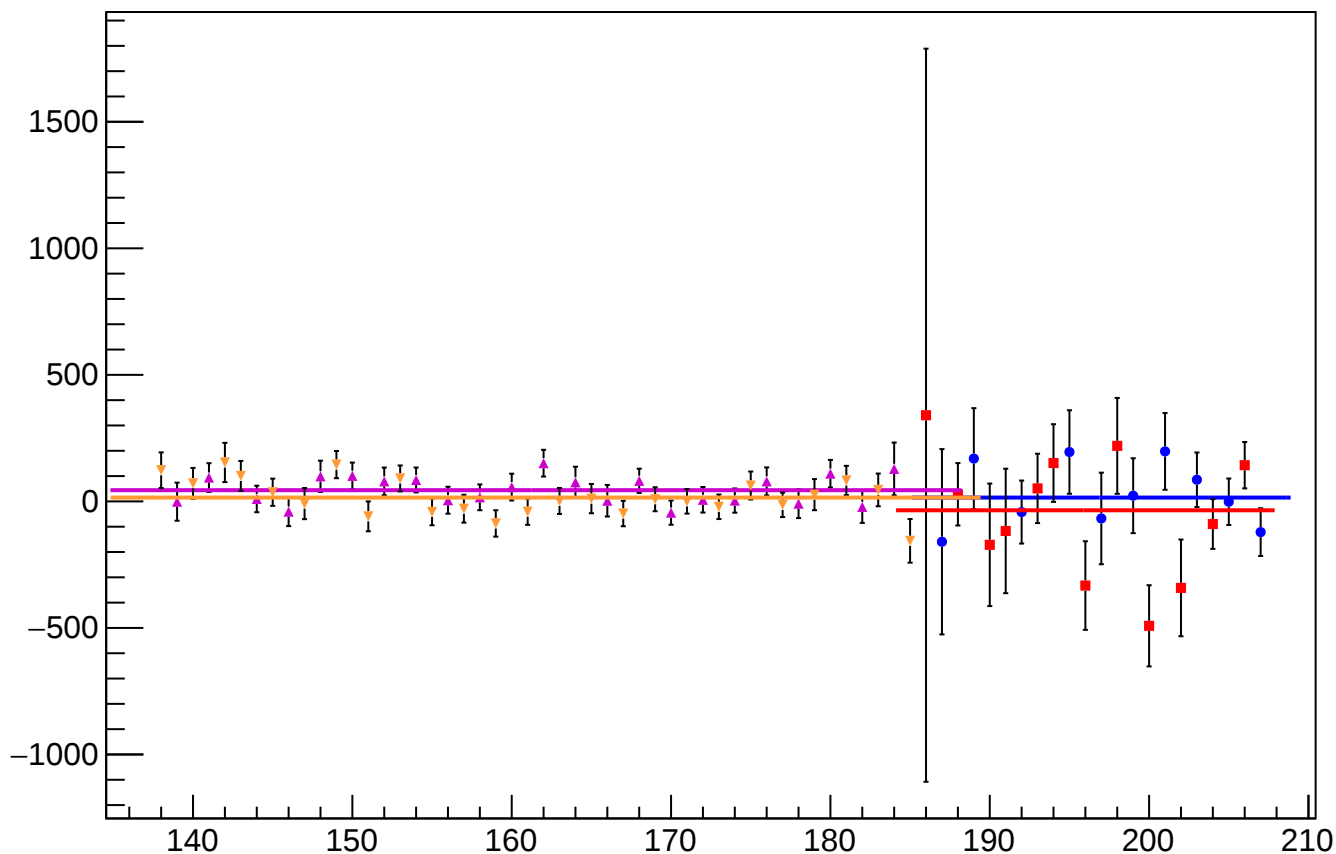
Right: 2264.783 $\pm$ 0.421 χ^2 /NDF: 1216456.4/21

In: 855.444 $\pm$ 0.132 χ^2 /NDF: 6805515.5/32

Out: 860.155 $\pm$ 0.129 χ^2 /NDF: 8228144.1/36

All: 857.847 $\pm$ 0.092 χ^2 /NDF: 15034312.7/69

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 15.125 $\pm$ 41.842 χ^2 /NDF: 6.4/9

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: -35.126 $\pm$ 42.828 χ^2 /NDF: 22.1/11

Left In: 44.297 $\pm$ 11.530 χ^2 /NDF:22.3/22

Left: 29.215 $\pm$ 8.017 χ^2 /NDF: 59.8/47

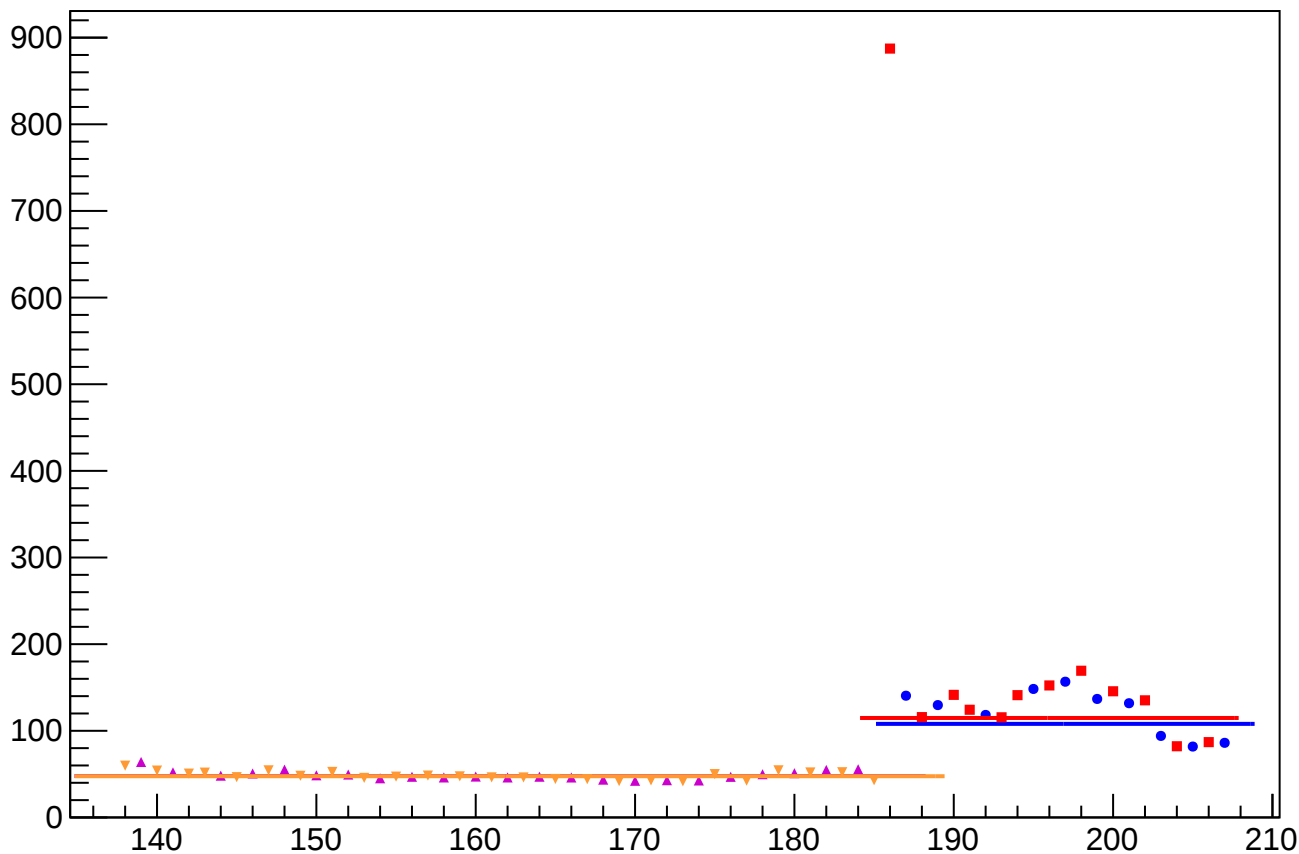
Right: -9.415 $\pm$ 29.929 χ^2 /NDF: 29.2/21

In: 42.238 $\pm$ 11.115 χ^2 /NDF:29.2/32

Out: 11.909 $\pm$ 10.794 χ^2 /NDF:57.6/36

All: 26.629 $\pm$ 7.744 χ^2 /NDF: 90.6/69

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 108.016 $\pm$ 0.030 χ^2 /NDF: 746218.2/9

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 114.815 $\pm$ 0.030 χ^2 /NDF: 1415580.7/11

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF:281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

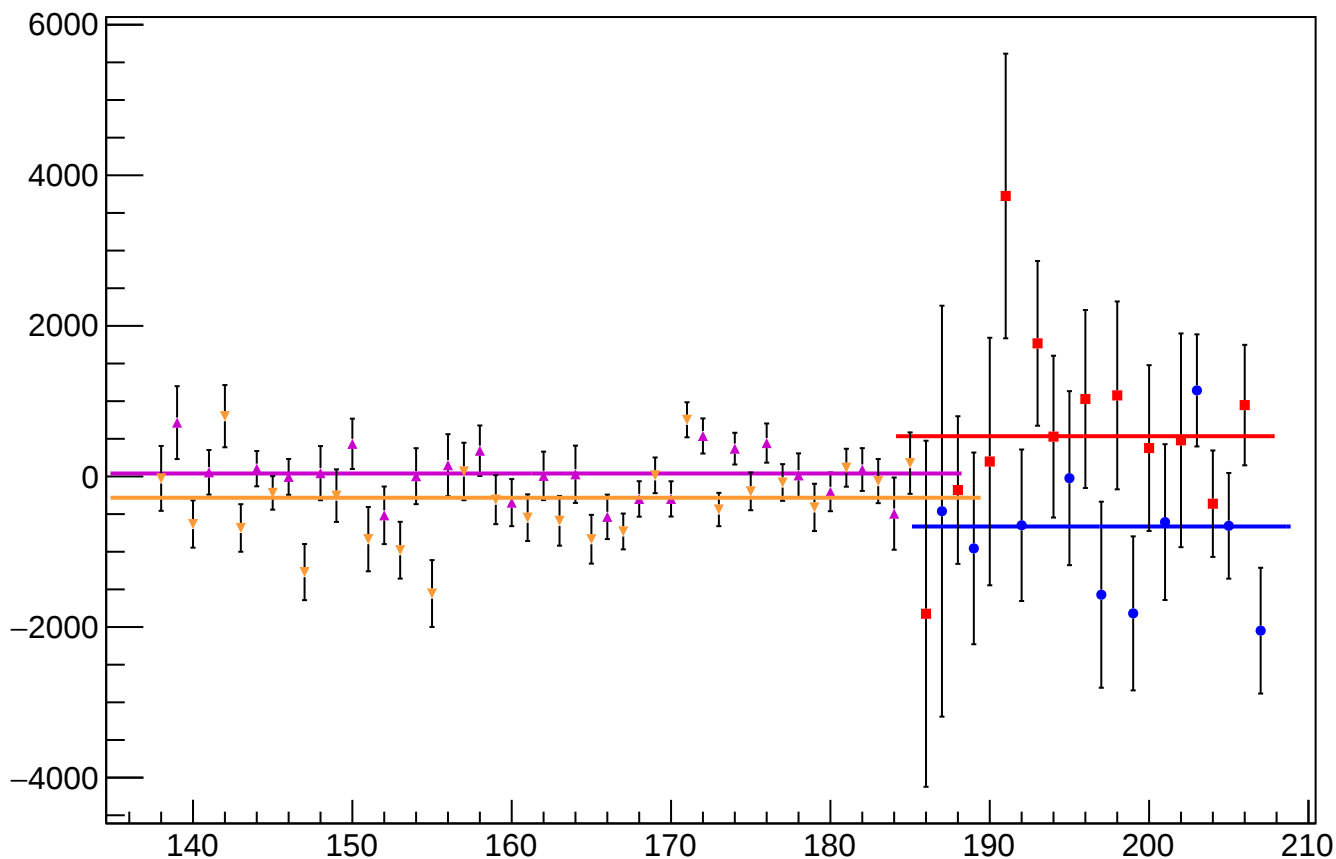
Right: 111.336 $\pm$ 0.021 χ^2 /NDF: 2187591.3/21

In: 52.092 $\pm$ 0.008 χ^2 /NDF:4872016.0/32

Out: 51.857 $\pm$ 0.008 χ^2 /NDF:6343632.6/36

All: 51.971 $\pm$ 0.005 χ^2 /NDF: 11216110.9/69

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -664.547 $\pm$ 311.594 χ^2/NDF : 10.8/9

Left Out: -282.798 $\pm$ 59.690 χ^2/NDF : 66.5/24

Right Out: 534.663 $\pm$ 319.073 χ^2/NDF : 8.0/11

Left In: 39.432 $\pm$ 60.759 χ^2/NDF : 27.5/22

Left: -124.543 $\pm$ 42.580 χ^2/NDF : 108.4/47

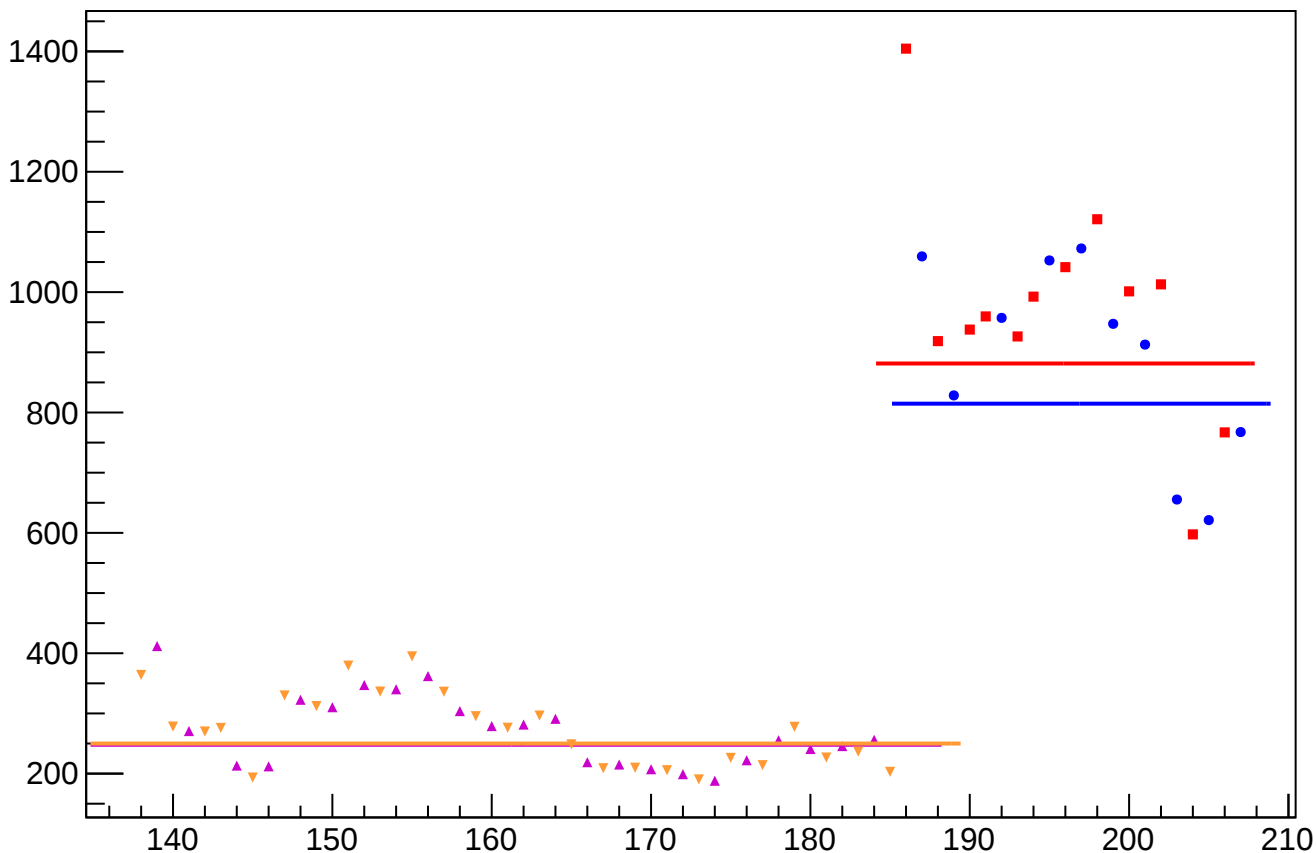
Right: -79.161 $\pm$ 222.927 χ^2/NDF : 26.1/21

In: 13.645 $\pm$ 59.636 χ^2/NDF : 43.3/32

Out: -255.158 $\pm$ 58.672 χ^2/NDF : 80.9/36

All: -122.946 $\pm$ 41.824 χ^2/NDF : 134.5/69

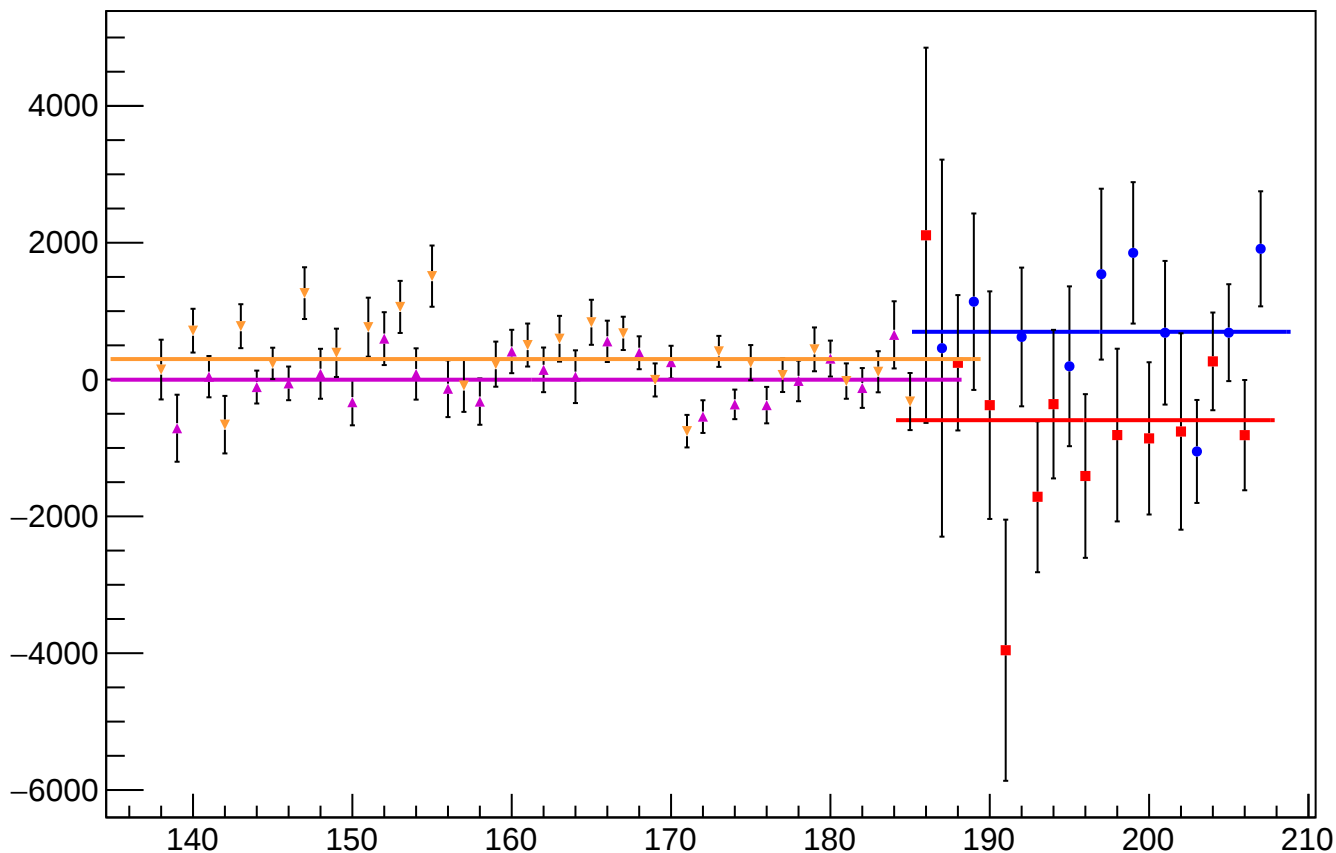
asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 814.677 $\pm$ 0.220 χ^2 /NDF: 529930.2/9
 Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24
 Right Out: 881.435 $\pm$ 0.226 χ^2 /NDF: 651840.5/11
 Left In: 247.917 $\pm$ 0.043 χ^2 /NDF: 1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47
 Right: 847.264 $\pm$ 0.158 χ^2 /NDF: 1226584.6/21
 In: 268.677 $\pm$ 0.042 χ^2 /NDF: 8315241.8/32
 Out: 271.309 $\pm$ 0.041 χ^2 /NDF: 9834885.8/36
 All: 270.014 $\pm$ 0.030 χ^2 /NDF: 18152106.2/69

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 698.101+/-314.727 χ^2/NDF : 9.5/9

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -593.974+/-323.073 χ^2/NDF : 8.0/11

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

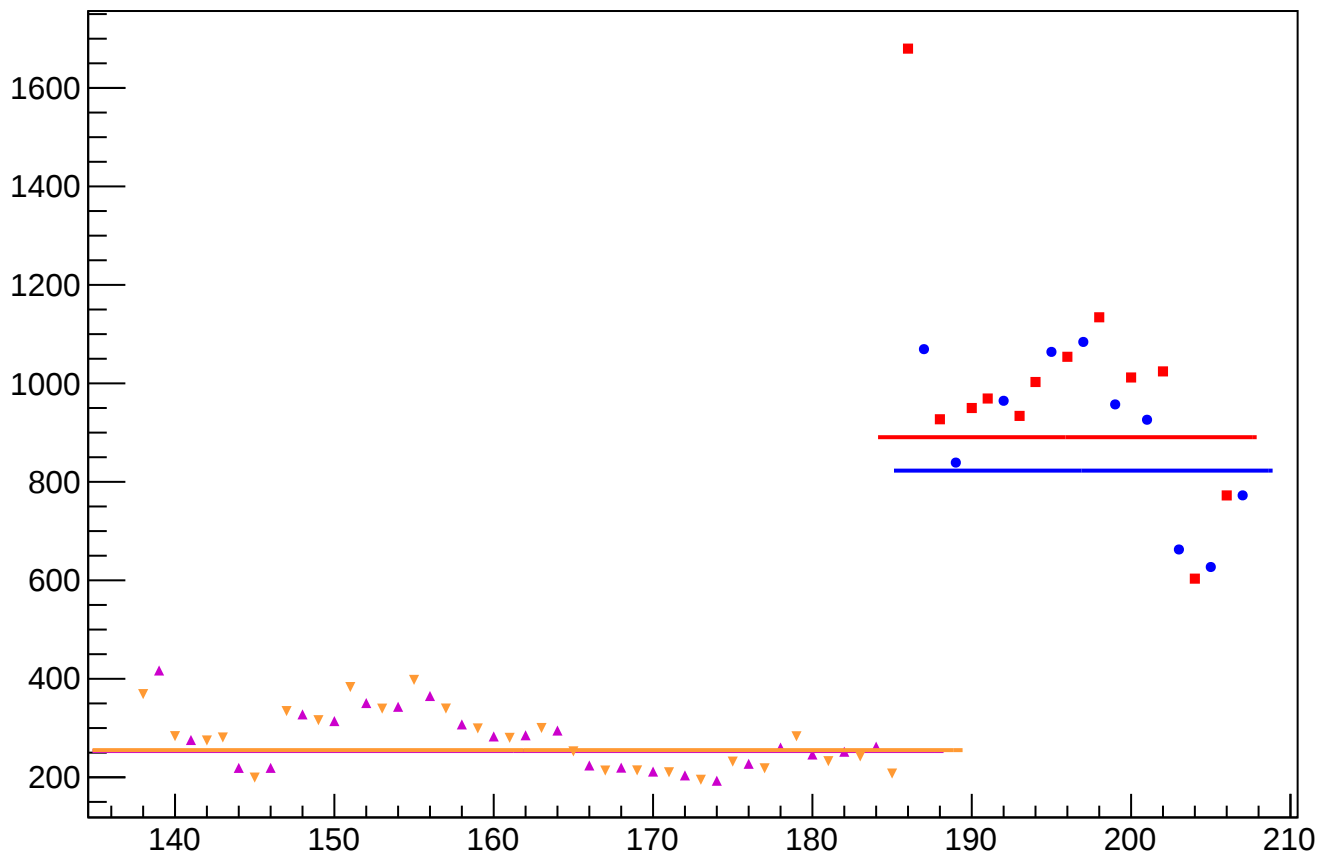
Right: 68.969+/-225.438 χ^2/NDF : 25.7/21

In: 23.980+/-60.835 χ^2/NDF : 43.4/32

Out: 268.941+/-59.808 χ^2/NDF : 77.8/36

All: 148.547+/-42.649 χ^2/NDF : 129.5/69

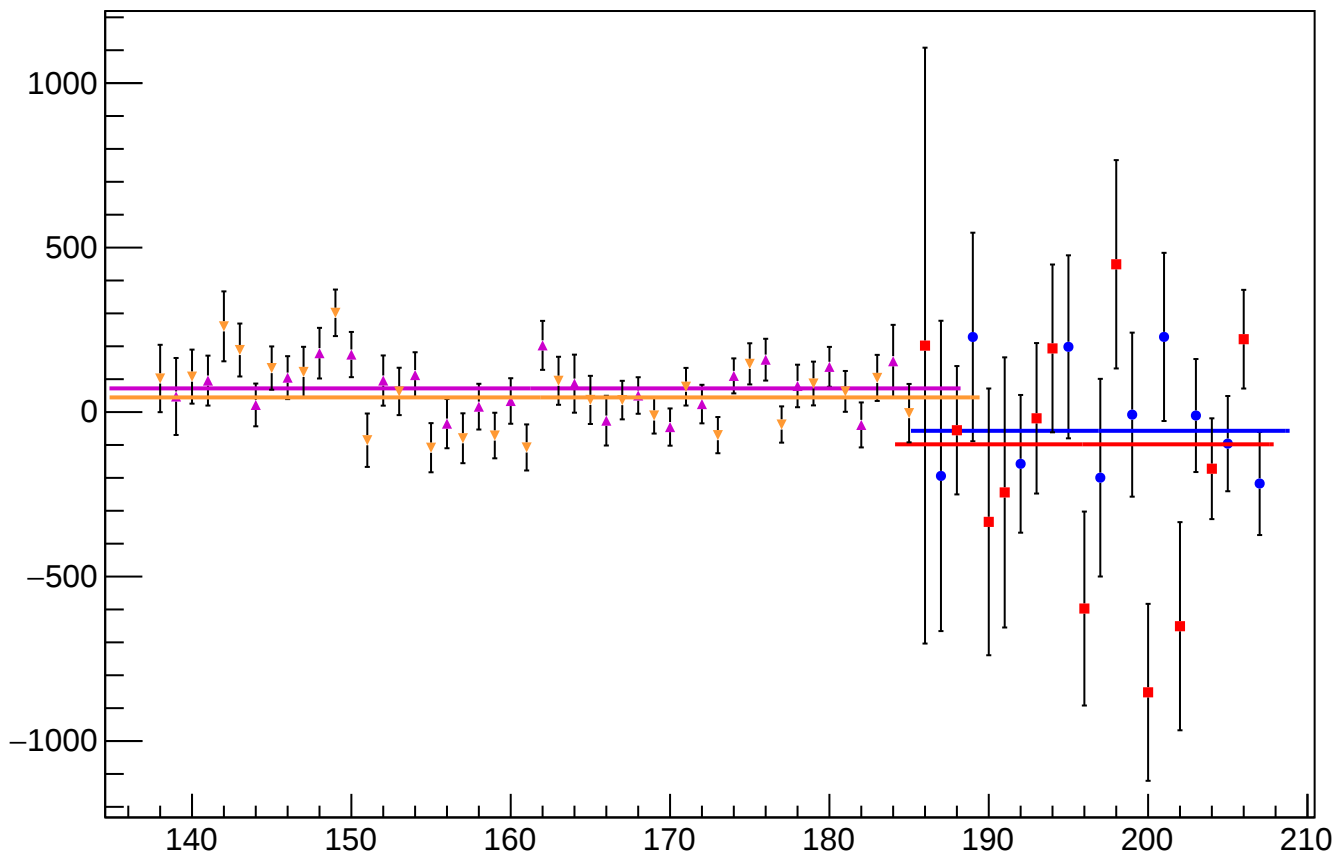
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 822.816 $\pm$ 0.223 χ^2 /NDF: 531994.9/9
 Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24
 Right Out: 890.685 $\pm$ 0.228 χ^2 /NDF: 718175.9/11
 Left In: 253.287 $\pm$ 0.044 χ^2 /NDF: 1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47
 Right: 855.863 $\pm$ 0.159 χ^2 /NDF: 1295455.7/21
 In: 274.567 $\pm$ 0.043 χ^2 /NDF: 8178243.2/32
 Out: 276.916 $\pm$ 0.042 χ^2 /NDF: 9734728.1/36
 All: 275.761 $\pm$ 0.030 χ^2 /NDF: 17914487.3/69

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -56.949 $\pm$ 68.194 χ^2 /NDF: 4.7/9

Left Out: 44.602 $\pm$ 13.824 χ^2 /NDF:53.9/24

Right Out: -97.996 $\pm$ 69.611 χ^2 /NDF: 23.6/11

Left In: 72.037 $\pm$ 14.296 χ^2 /NDF:25.3/22

Left: 57.859 $\pm$ 9.938 χ^2 /NDF: 81.1/47

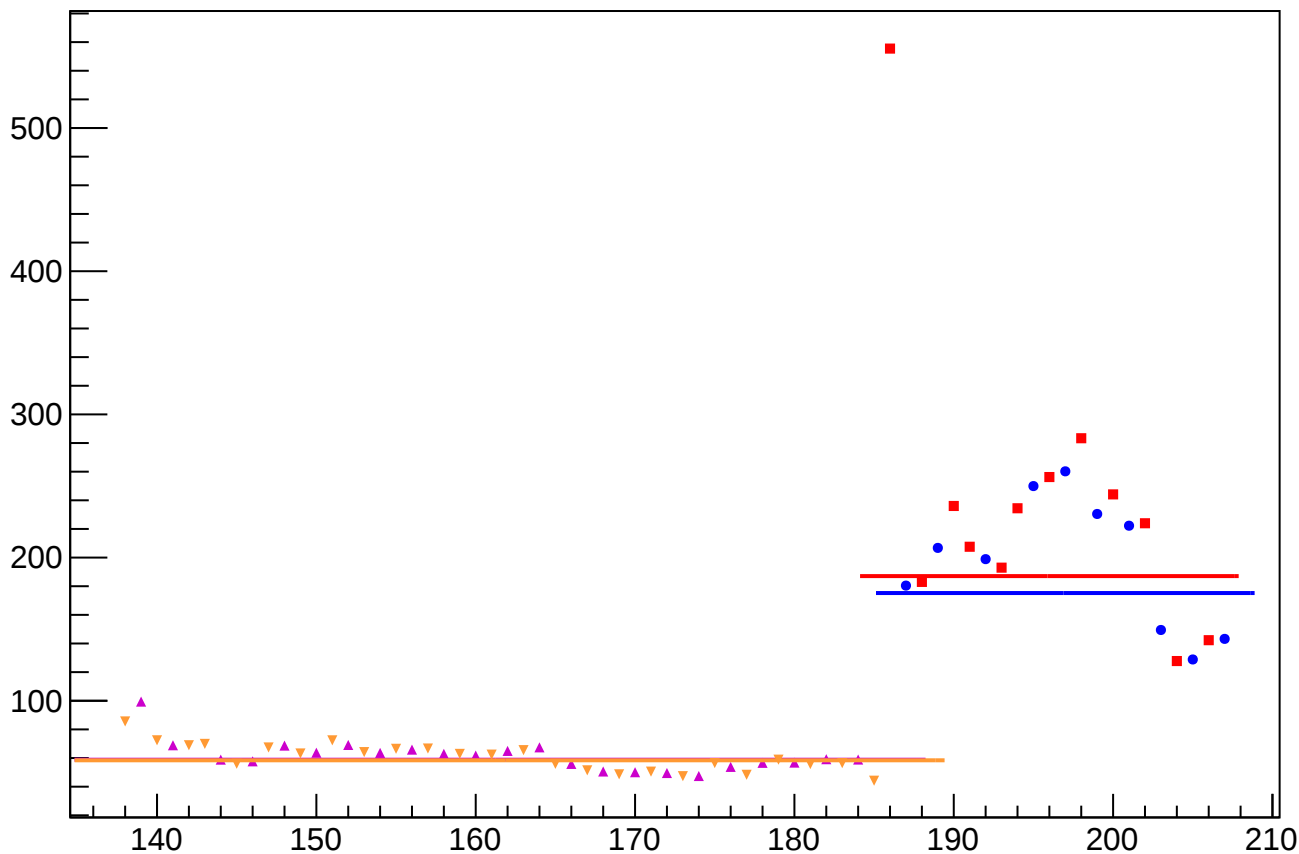
Right: -77.051 $\pm$ 48.714 χ^2 /NDF: 28.4/21

In: 66.607 $\pm$ 13.992 χ^2 /NDF:33.4/32

Out: 39.191 $\pm$ 13.559 χ^2 /NDF:81.5/36

All: 52.469 $\pm$ 9.737 χ^2 /NDF: 116.9/69

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 175.238 $\pm$ 0.048 χ^2 /NDF: 849833.2/9

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 187.067 $\pm$ 0.049 χ^2 /NDF: 1326658.9/11

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

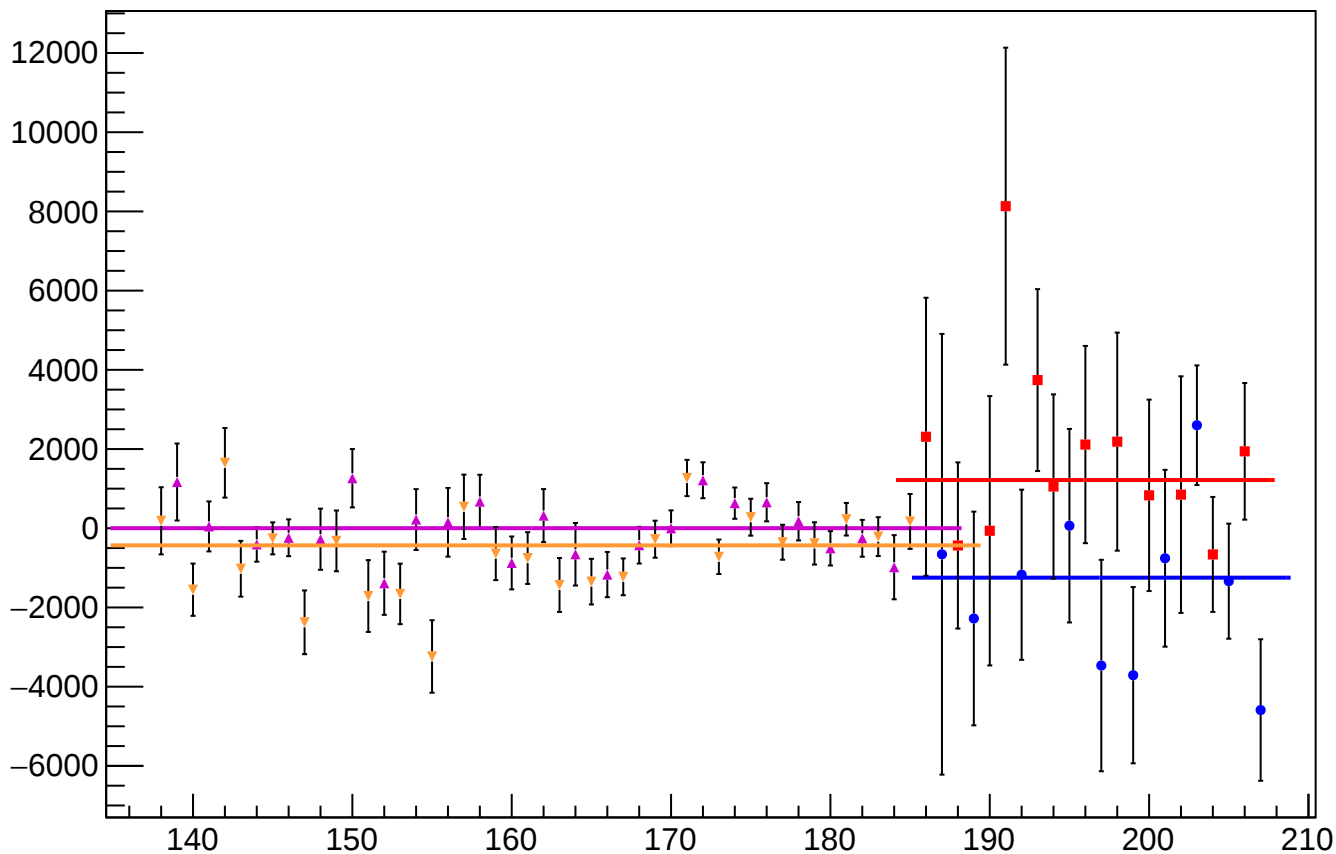
Right: 181.031 $\pm$ 0.034 χ^2 /NDF: 2205959.9/21

In: 63.740 $\pm$ 0.010 χ^2 /NDF: 7111230.1/32

Out: 63.304 $\pm$ 0.010 χ^2 /NDF: 8688048.7/36

All: 63.515 $\pm$ 0.007 χ^2 /NDF: 15800280.9/69

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1247.383+/-656.262 χ^2/NDF : 12.4/9

Left Out: -432.330+/-114.408 χ^2/NDF : 59.4/24

Right Out: 1217.496+/-671.309 χ^2/NDF : 7.2/11

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

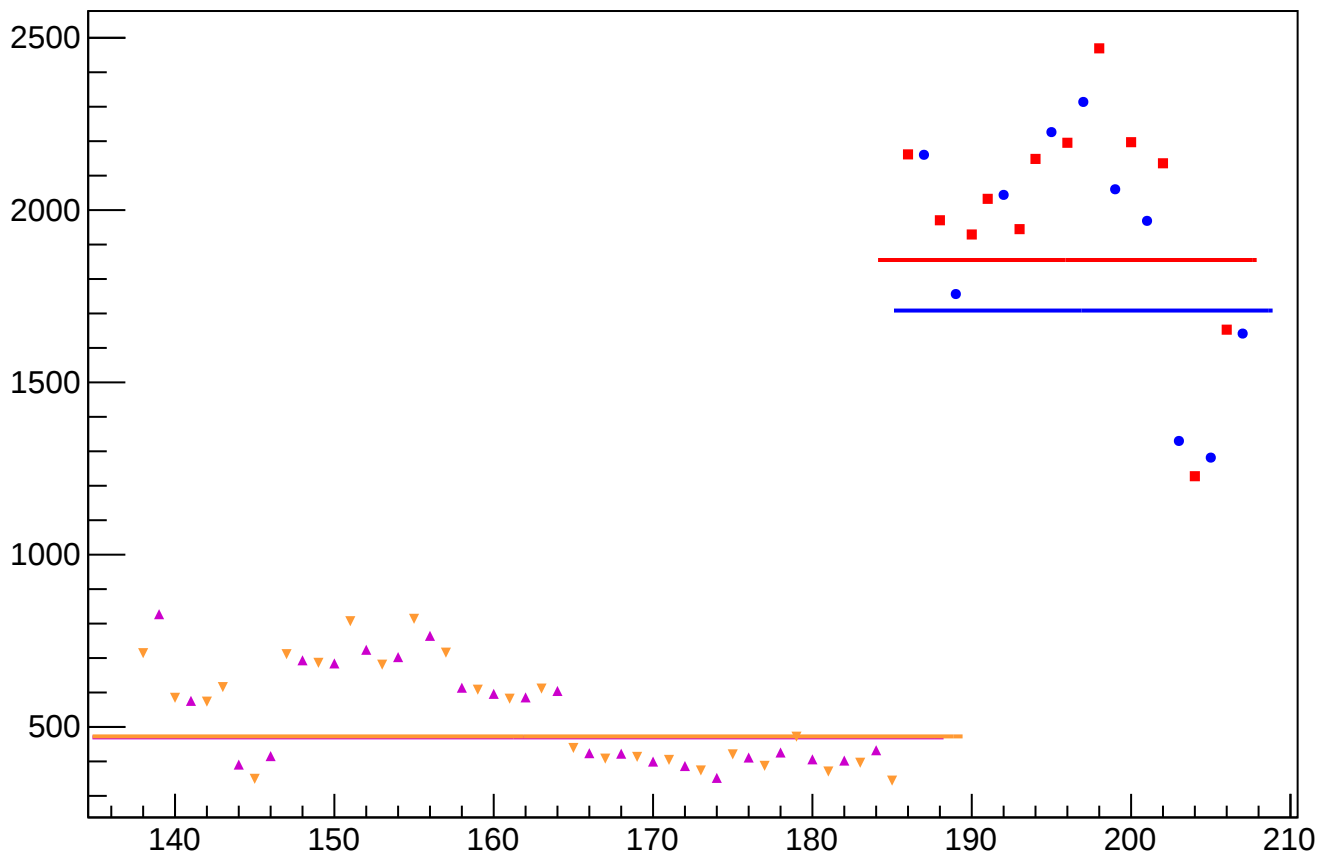
Right: -42.877+/-469.277 χ^2/NDF : 26.5/21

In: -36.313+/-114.667 χ^2/NDF : 48.2/32

Out: -385.764+/-112.782 χ^2/NDF : 72.5/36

All: -213.935+/-80.407 χ^2/NDF : 125.4/69

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1708.470+/-0.464 χ^2/NDF : 633472.8/9

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1855.166+/-0.475 χ^2/NDF : 656791.0/11

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

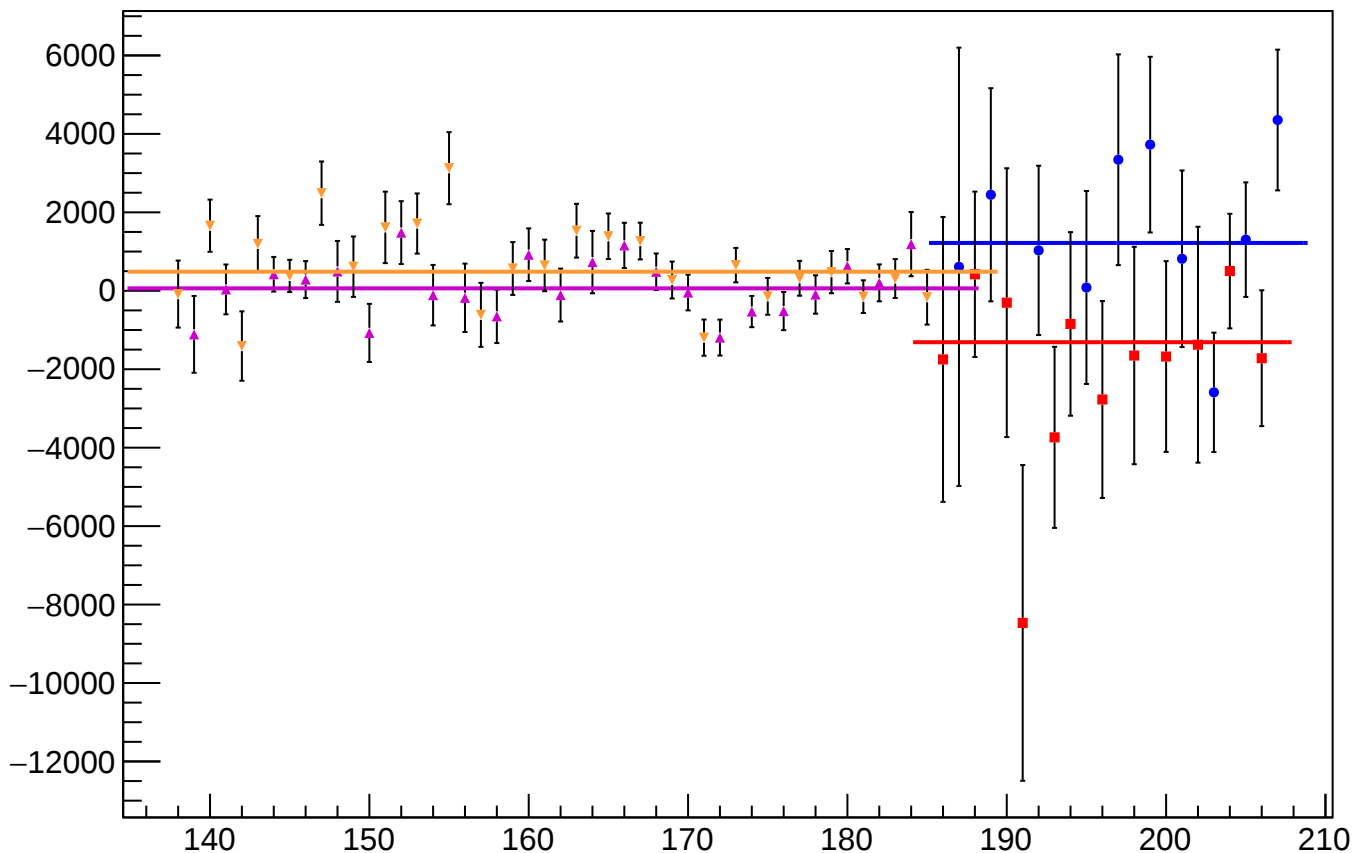
Right: 1780.156+/-0.332 χ^2/NDF : 1339097.9/21

In: 507.579+/-0.081 χ^2/NDF : 9658302.3/32

Out: 511.593+/-0.080 χ^2/NDF : 11409041.7/36

All: 509.619+/-0.057 χ^2/NDF : 21068589.6/69

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1219.779+/-660.233 χ^2/NDF : 11.7/9

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -1311.219+/-675.913 χ^2/NDF : 7.1/11

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

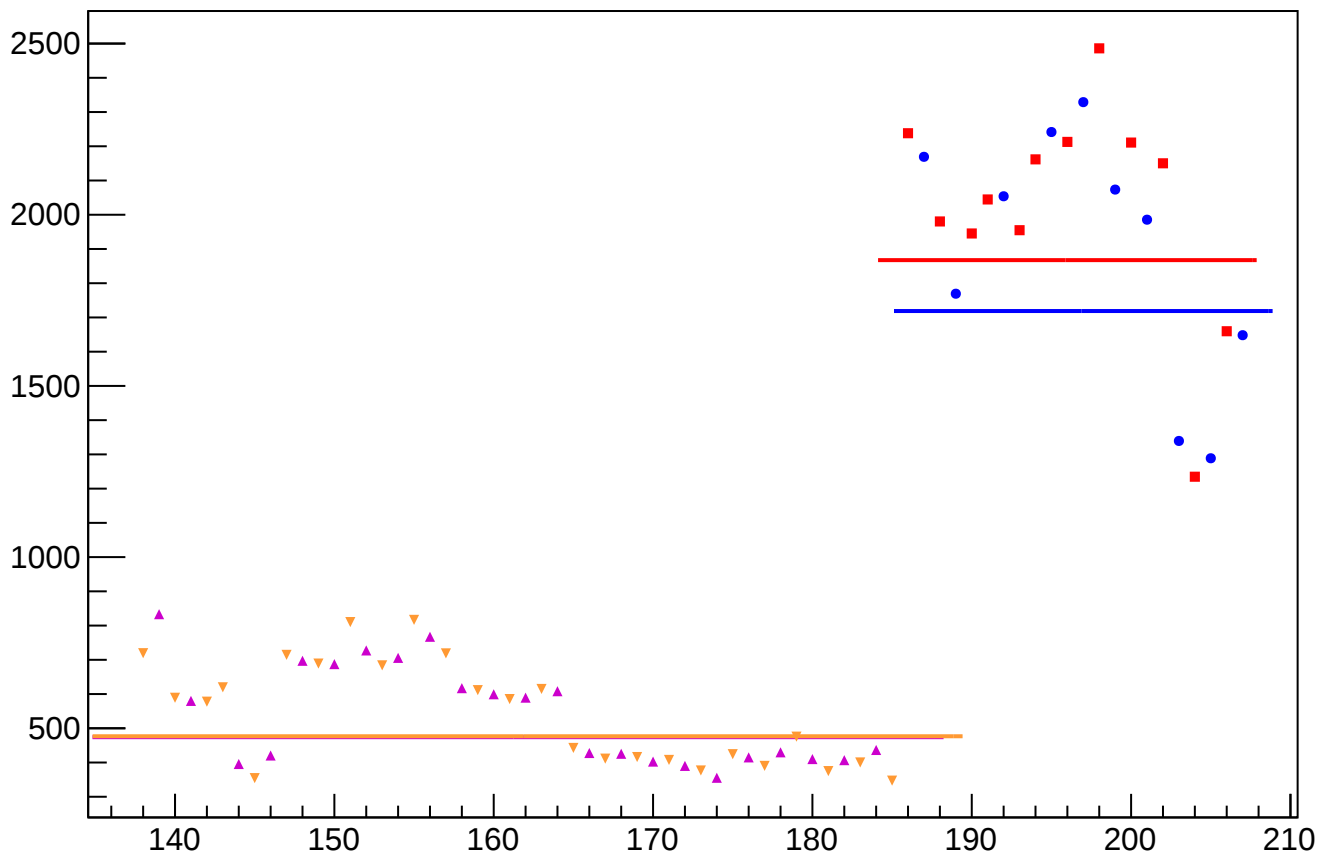
Right: -16.023+/-472.301 χ^2/NDF : 25.9/21

In: 97.296+/-115.633 χ^2/NDF :45.8/32

Out: 435.769+/-113.702 χ^2/NDF :70.0/36

All: 269.382+/-81.074 χ^2/NDF : 120.1/69

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1718.755+/-0.467 χ^2/NDF : 634577.0/9

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1867.432+/-0.478 χ^2/NDF : 665197.8/11

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

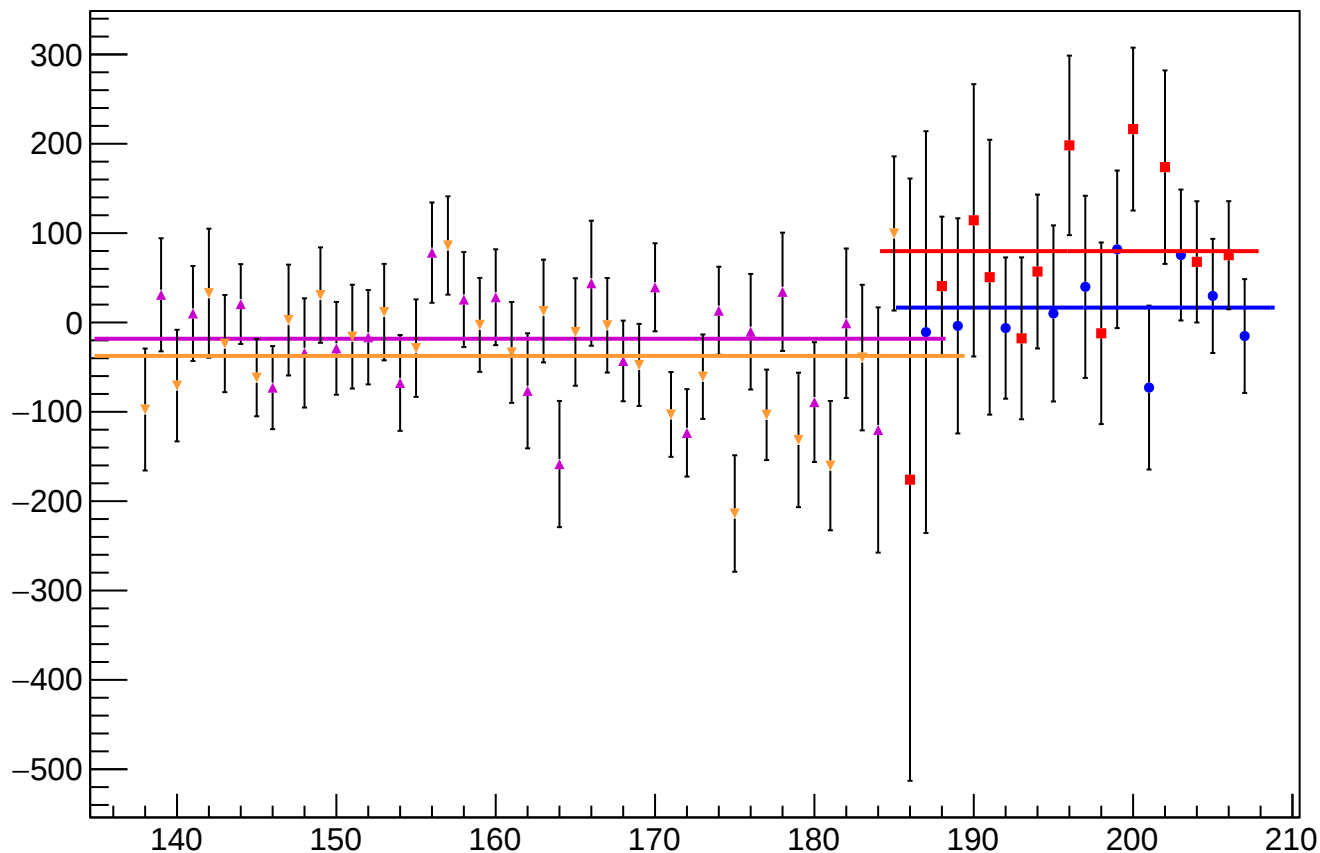
Right: 1791.349+/-0.334 χ^2/NDF : 1349294.7/21

In: 512.166+/-0.082 χ^2/NDF : 9612719.1/32

Out: 516.045+/-0.080 χ^2/NDF : 11365568.2/36

All: 514.138+/-0.057 χ^2/NDF : 20979432.0/69

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 16.646 $\pm$ 26.984 χ^2 /NDF: 2.6/9

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 79.838 $\pm$ 26.646 χ^2 /NDF: 7.4/11

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

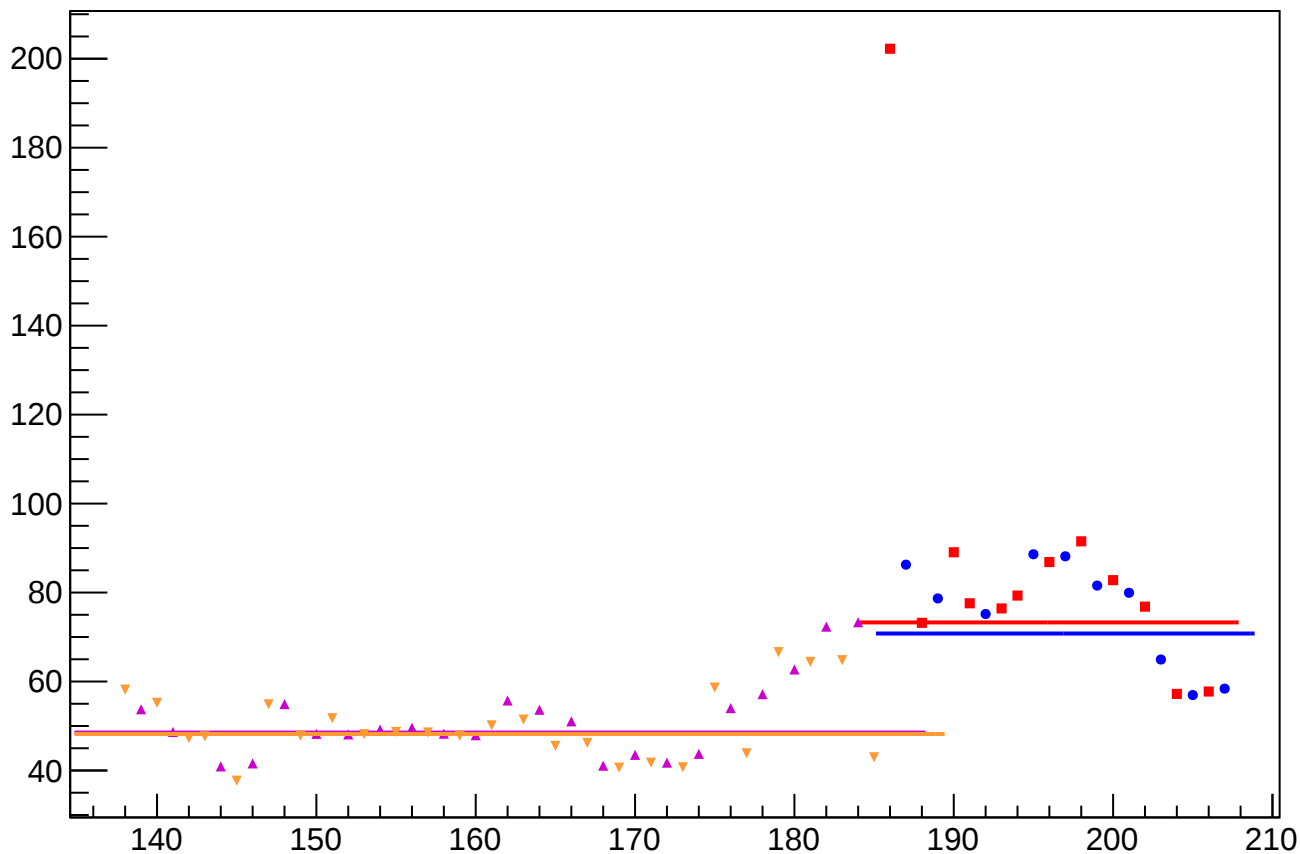
Right: 48.640 $\pm$ 18.960 χ^2 /NDF: 12.8/21

In: -12.624 $\pm$ 10.802 χ^2 /NDF:27.0/32

Out: -19.300 $\pm$ 10.473 χ^2 /NDF:54.2/36

All: -16.065 $\pm$ 7.519 χ^2 /NDF: 81.4/69

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 70.791+/-0.019 χ^2/NDF : 379543.9/9

Left Out: 48.200+/-0.008 χ^2/NDF : 750196.2/24

Right Out: 73.287+/-0.019 χ^2/NDF : 696676.9/11

Left In: 48.527+/-0.008 χ^2/NDF : 675340.8/22

Left: 48.358+/-0.006 χ^2/NDF : 1426333.4/47

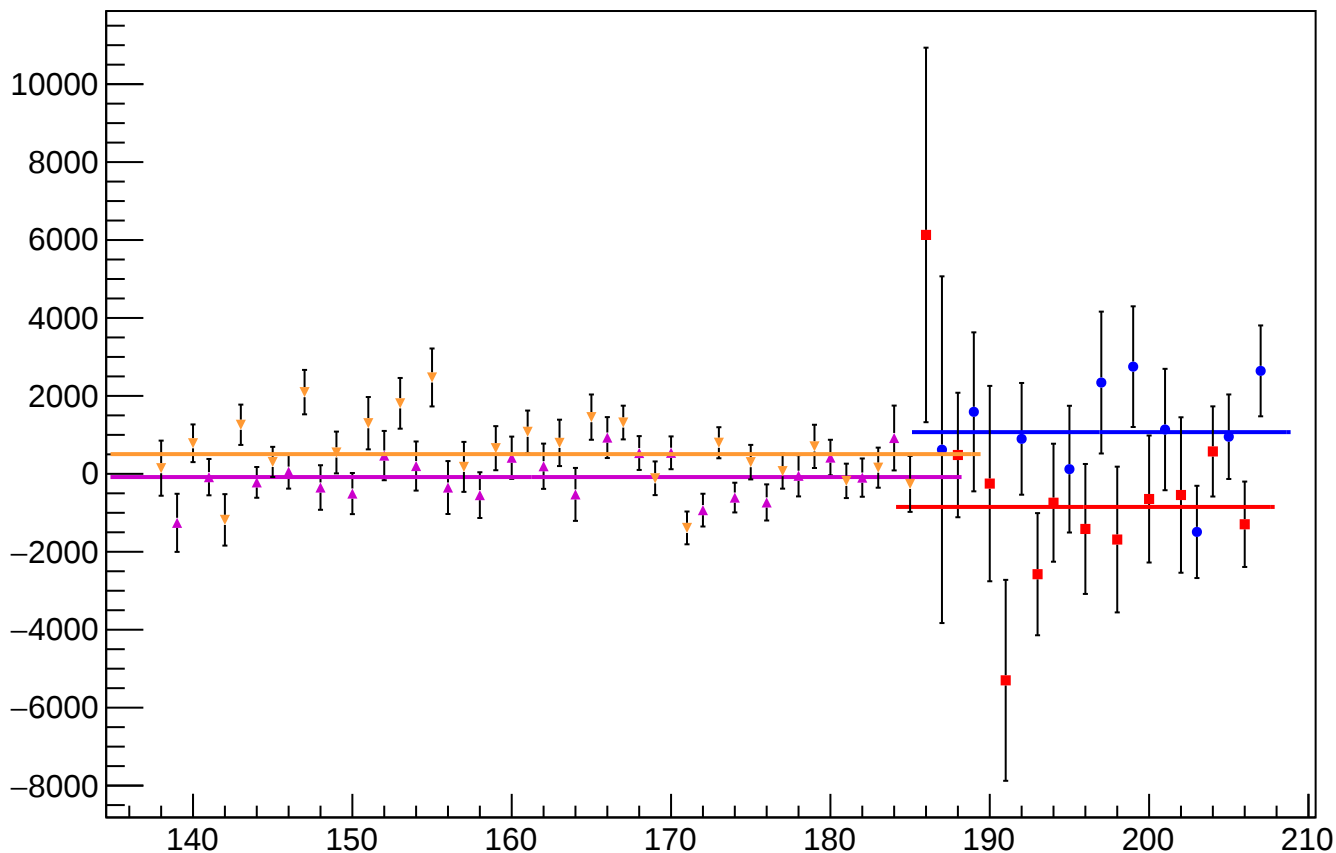
Right: 72.055+/-0.013 χ^2/NDF : 1084889.6/21

In: 52.095+/-0.008 χ^2/NDF : 2198213.6/32

Out: 52.075+/-0.007 χ^2/NDF : 2945874.1/36

All: 52.085+/-0.005 χ^2/NDF : 5144091.0/69

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1070.249+/-466.958 χ^2/NDF : 8.6/9

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -849.395+/-474.481 χ^2/NDF : 9.1/11

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

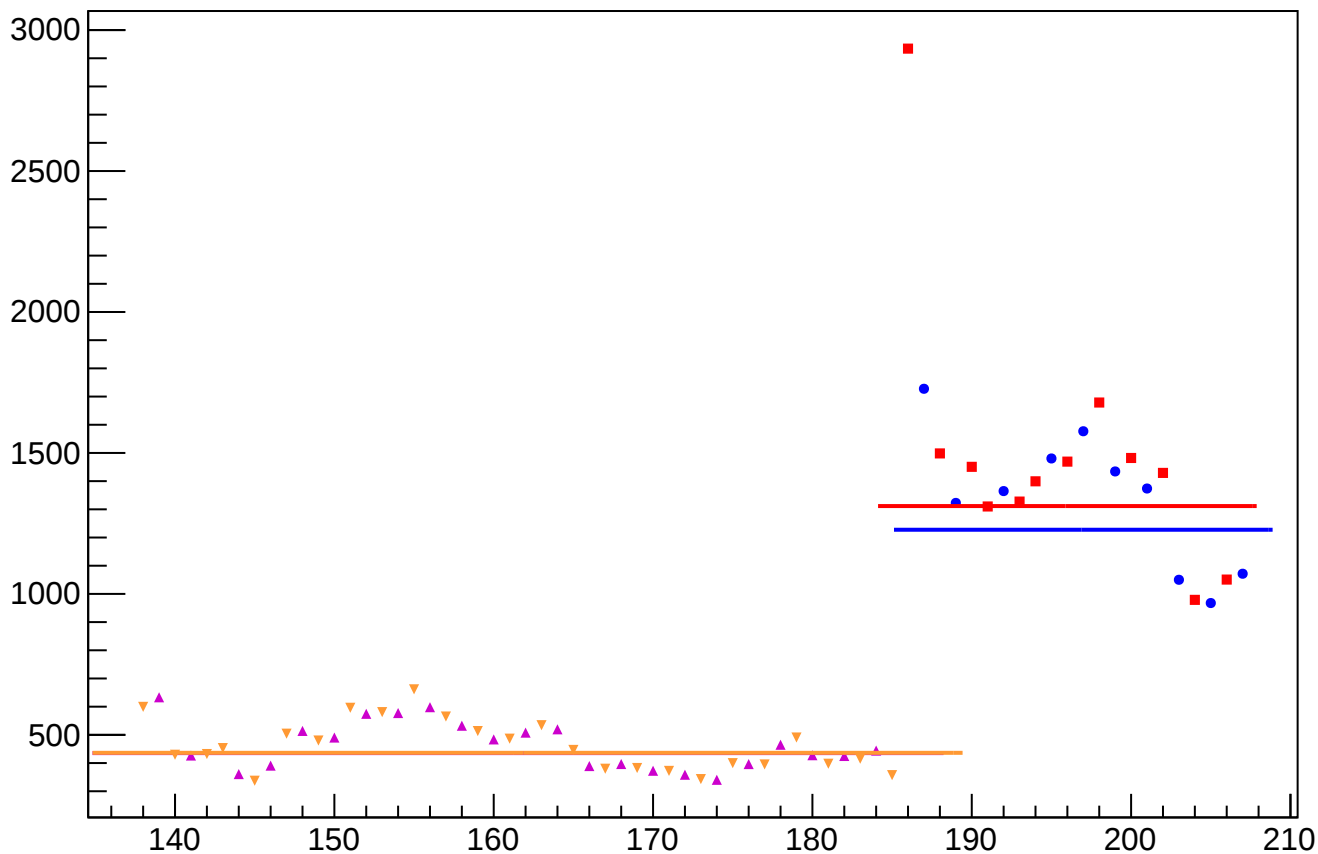
Right: 125.765+/-332.817 χ^2/NDF : 26.0/21

In: -26.001+/-103.310 χ^2/NDF : 39.8/32

Out: 444.669+/-101.092 χ^2/NDF : 82.6/36

All: 214.441+/-72.254 χ^2/NDF : 132.9/69

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1227.592+/-0.330 χ^2 /NDF: 418982.9/9

Left Out: 436.301+/-0.073 χ^2 /NDF:1179348.4/24

Right Out: 1311.586+/-0.336 χ^2 /NDF: 671016.2/11

Left In: 435.275+/-0.075 χ^2 /NDF:1027713.1/22

Left: 435.800+/-0.052 χ^2 /NDF: 2207157.7/47

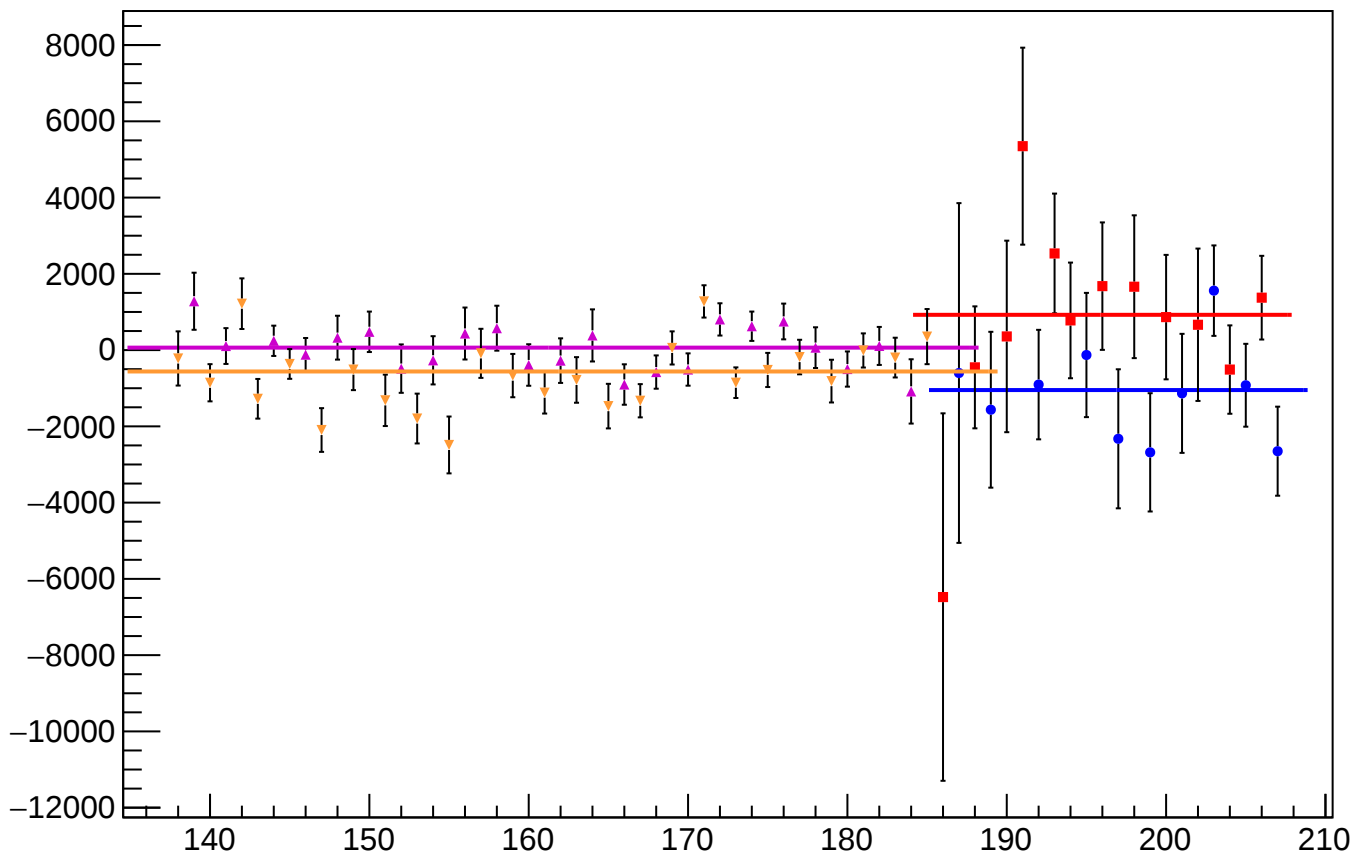
Right: 1268.918+/-0.235 χ^2 /NDF: 1121836.9/21

In: 474.057+/-0.073 χ^2 /NDF:6922852.1/32

Out: 476.034+/-0.071 χ^2 /NDF:8347391.3/36

All: 475.067+/-0.051 χ^2 /NDF: 15270617.6/69

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1048.034 $\pm$ 467.794 χ^2 /NDF: 8.7/9

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 925.280 $\pm$ 475.296 χ^2 /NDF: 9.2/11

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

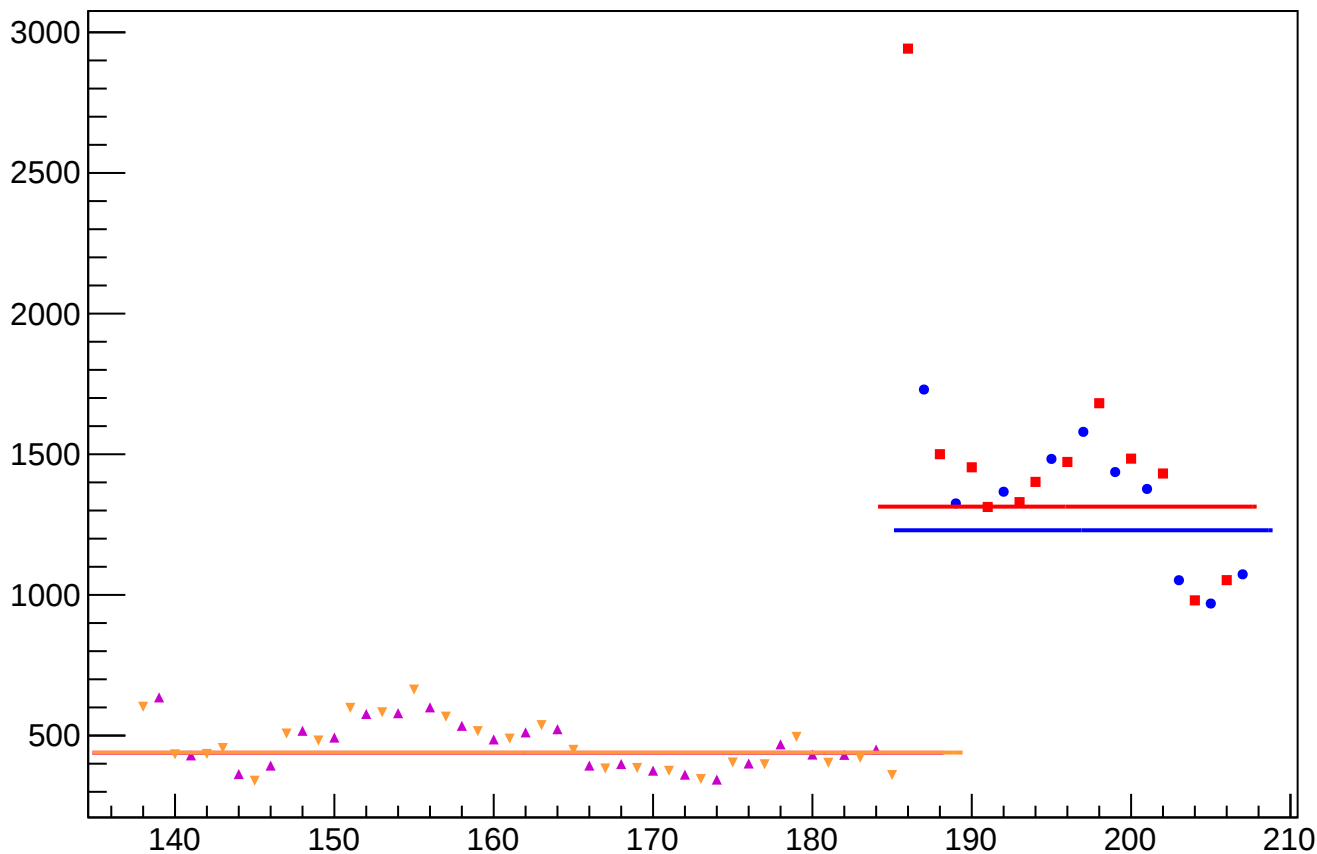
Right: -77.073 $\pm$ 333.401 χ^2 /NDF: 26.7/21

In: 9.564 $\pm$ 104.035 χ^2 /NDF:39.3/32

Out: -492.531 $\pm$ 101.789 χ^2 /NDF:80.3/36

All: -246.961 $\pm$ 72.757 χ^2 /NDF: 131.5/69

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1229.798 $\pm$ 0.331 χ^2 /NDF: 418935.0/9

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1313.830 $\pm$ 0.336 χ^2 /NDF: 671301.0/11

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF: 1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

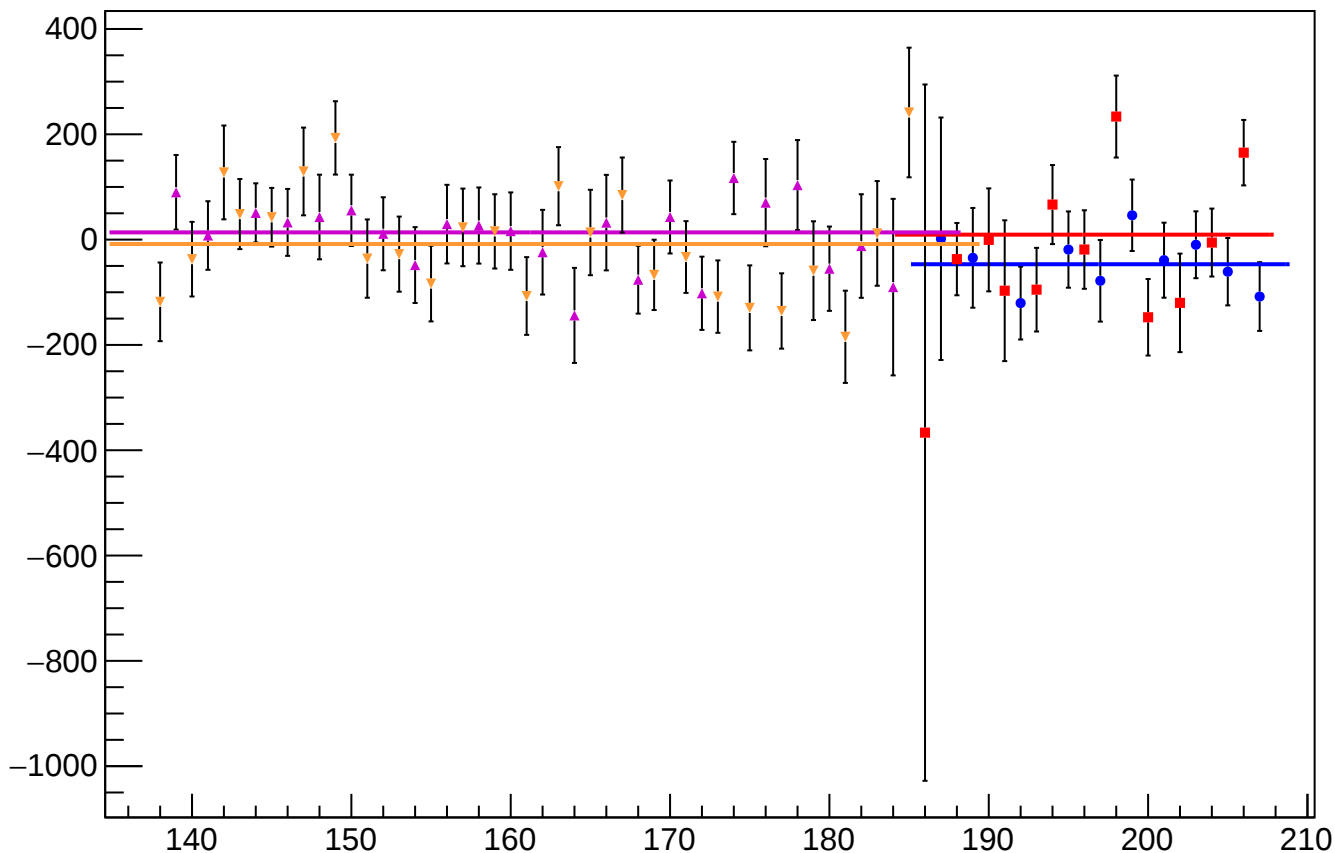
Right: 1271.145 $\pm$ 0.236 χ^2 /NDF: 1121991.6/21

In: 477.683 $\pm$ 0.074 χ^2 /NDF: 6871004.8/32

Out: 479.626 $\pm$ 0.072 χ^2 /NDF: 8291726.0/36

All: 478.676 $\pm$ 0.051 χ^2 /NDF: 15163087.5/69

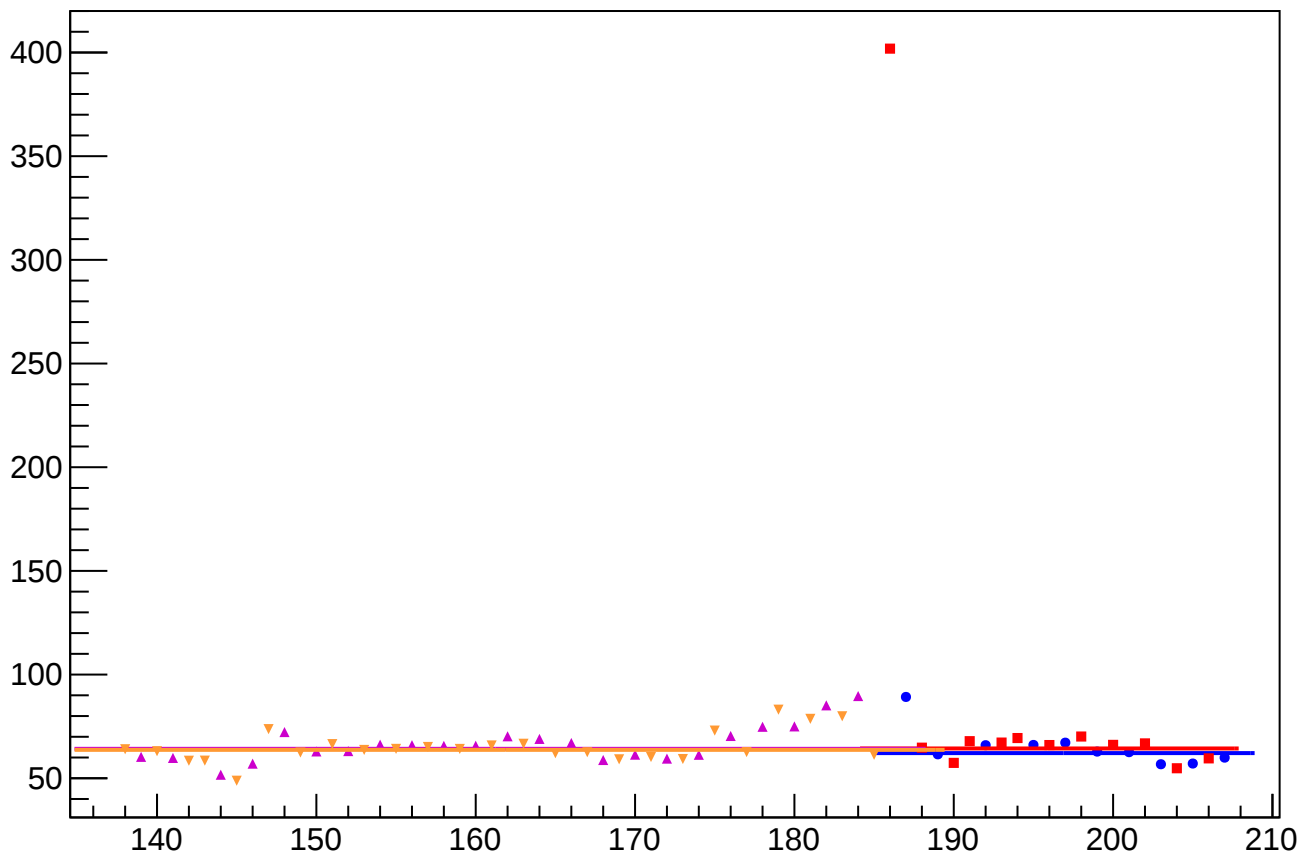
reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -46.771 ± 23.331 χ^2/NDF : 4.7/9
 Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24
 Right Out: 9.428 ± 23.195 χ^2/NDF : 25.1/11
 Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47
 Right: -18.507 ± 16.449 χ^2/NDF : 32.7/21
 In: -4.764 ± 12.898 χ^2/NDF : 25.6/32
 Out: -3.186 ± 12.557 χ^2/NDF : 67.1/36
 All: -3.954 ± 8.997 χ^2/NDF : 92.7/69

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 62.131 $\pm$ 0.016 χ^2 /NDF: 77382.3/9

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 64.361 $\pm$ 0.016 χ^2 /NDF: 614276.9/11

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

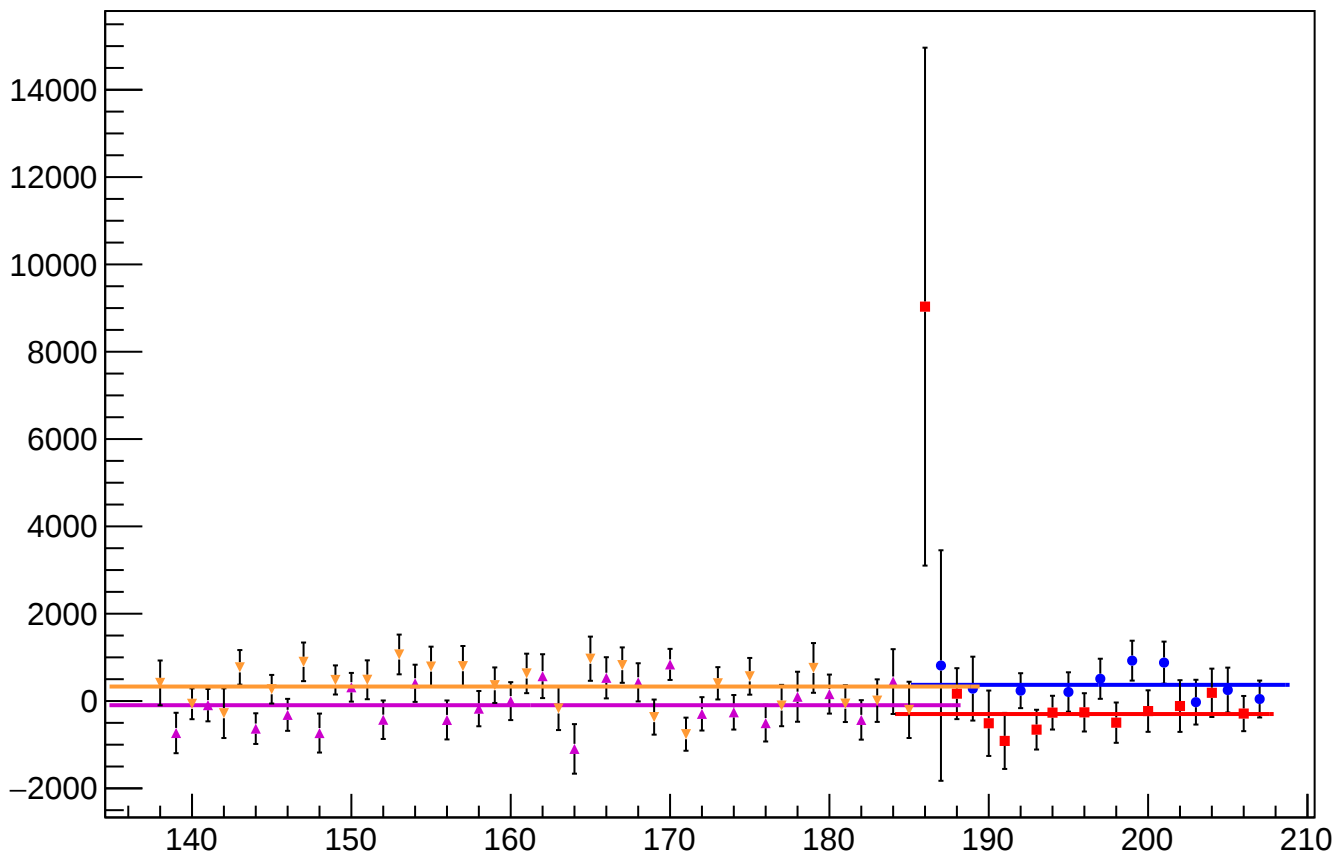
Right: 63.253 $\pm$ 0.012 χ^2 /NDF: 700844.9/21

In: 63.560 $\pm$ 0.009 χ^2 /NDF: 517854.9/32

Out: 63.891 $\pm$ 0.009 χ^2 /NDF: 1063878.6/36

All: 63.730 $\pm$ 0.006 χ^2 /NDF: 1582408.1/69

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 370.629+/-157.659 χ^2/NDF : 4.2/9

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -297.953+/-148.612 χ^2/NDF : 5.8/11

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

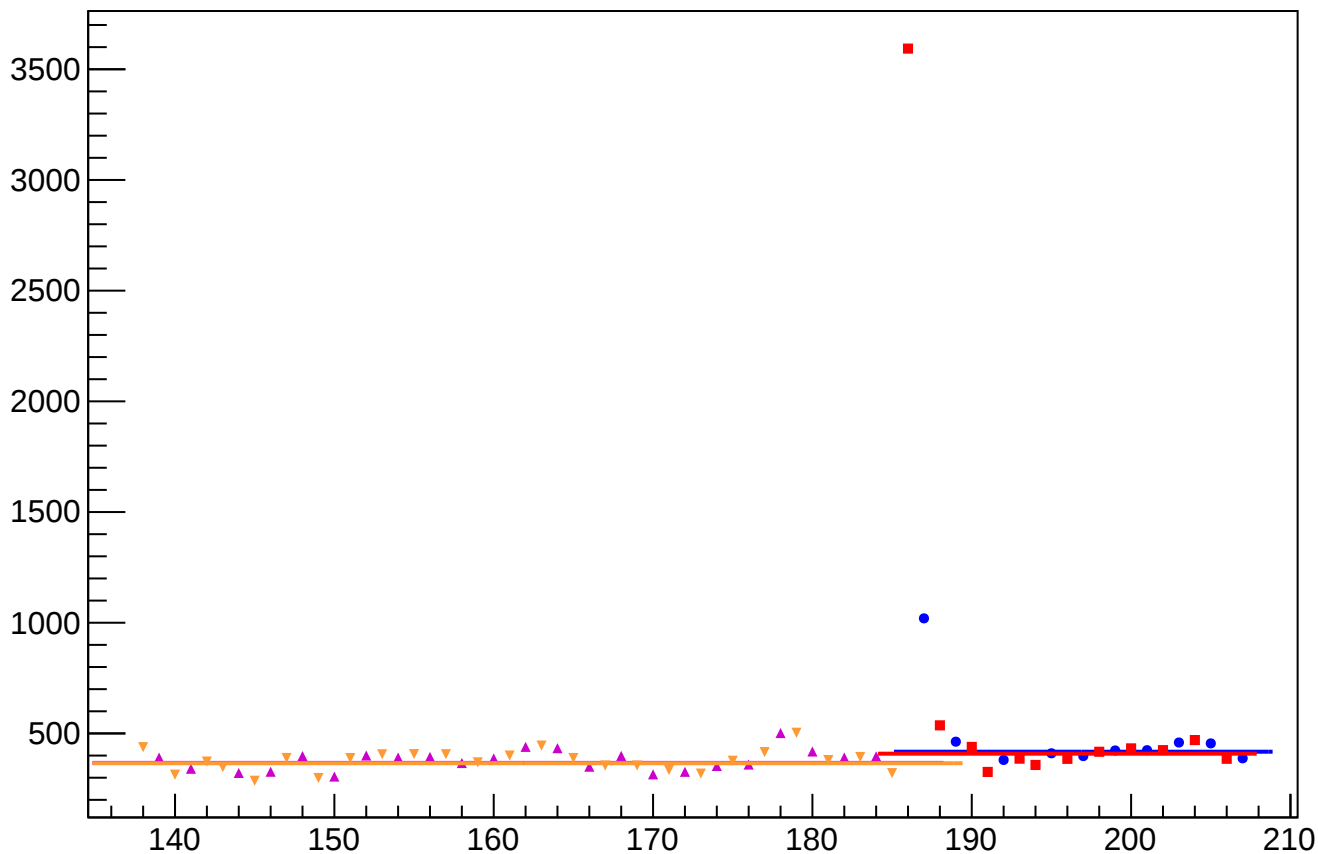
Right: 16.604+/-108.141 χ^2/NDF : 19.6/21

In: 16.173+/-77.276 χ^2/NDF : 39.5/32

Out: 173.573+/-74.481 χ^2/NDF : 49.1/36

All: 97.771+/-53.627 χ^2/NDF : 90.8/69

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 417.461 $\pm$ 0.111 χ^2 /NDF: 167778.5/9

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 408.579 $\pm$ 0.105 χ^2 /NDF: 793121.8/11

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

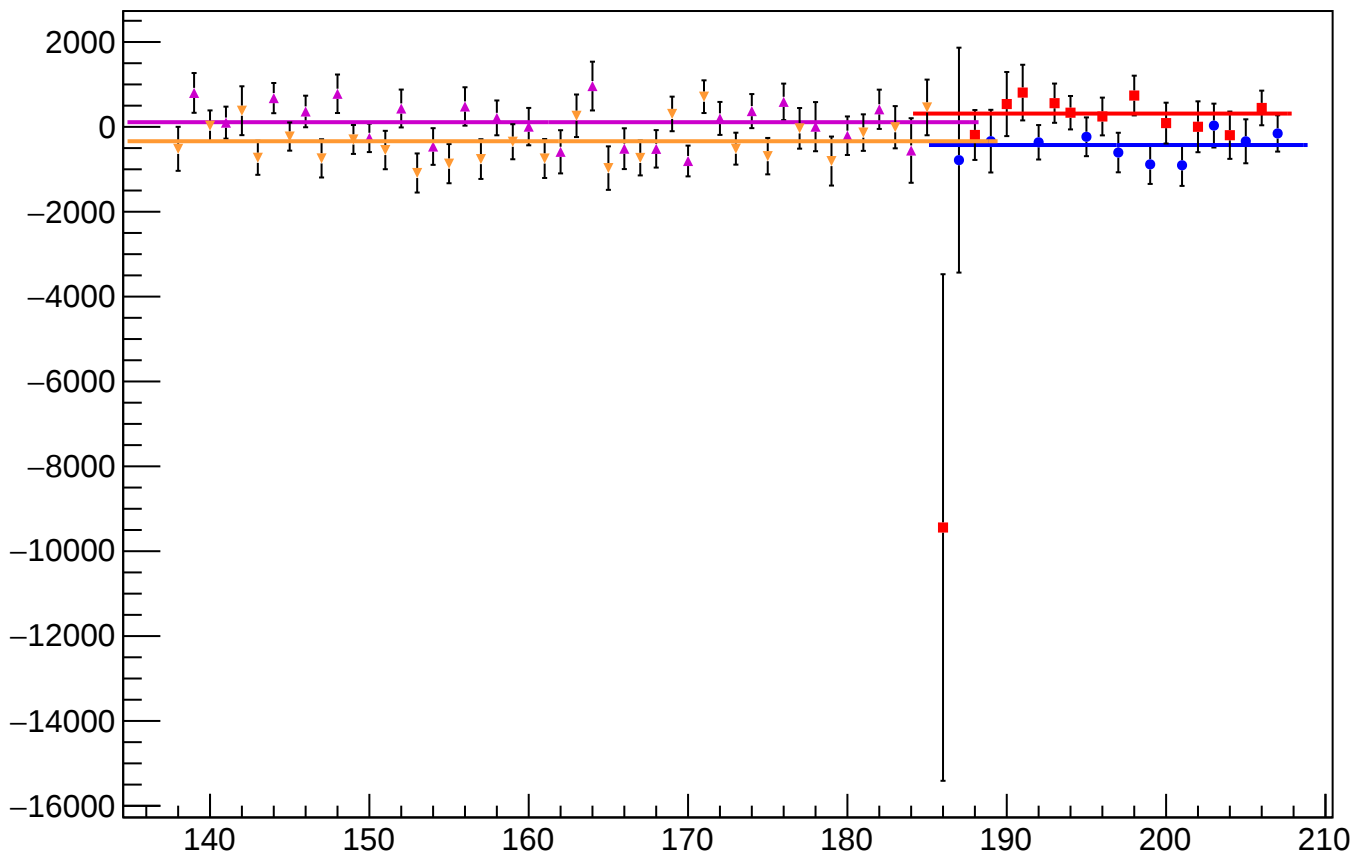
Right: 412.757 $\pm$ 0.076 χ^2 /NDF: 964261.4/21

In: 379.066 $\pm$ 0.055 χ^2 /NDF: 801982.5/32

Out: 376.212 $\pm$ 0.053 χ^2 /NDF: 1538264.7/36

All: 377.586 $\pm$ 0.038 χ^2 /NDF: 2341660.9/69

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -427.647 ± 159.544 χ^2/NDF : 3.5/9

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 313.288 ± 150.653 χ^2/NDF : 6.6/11

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

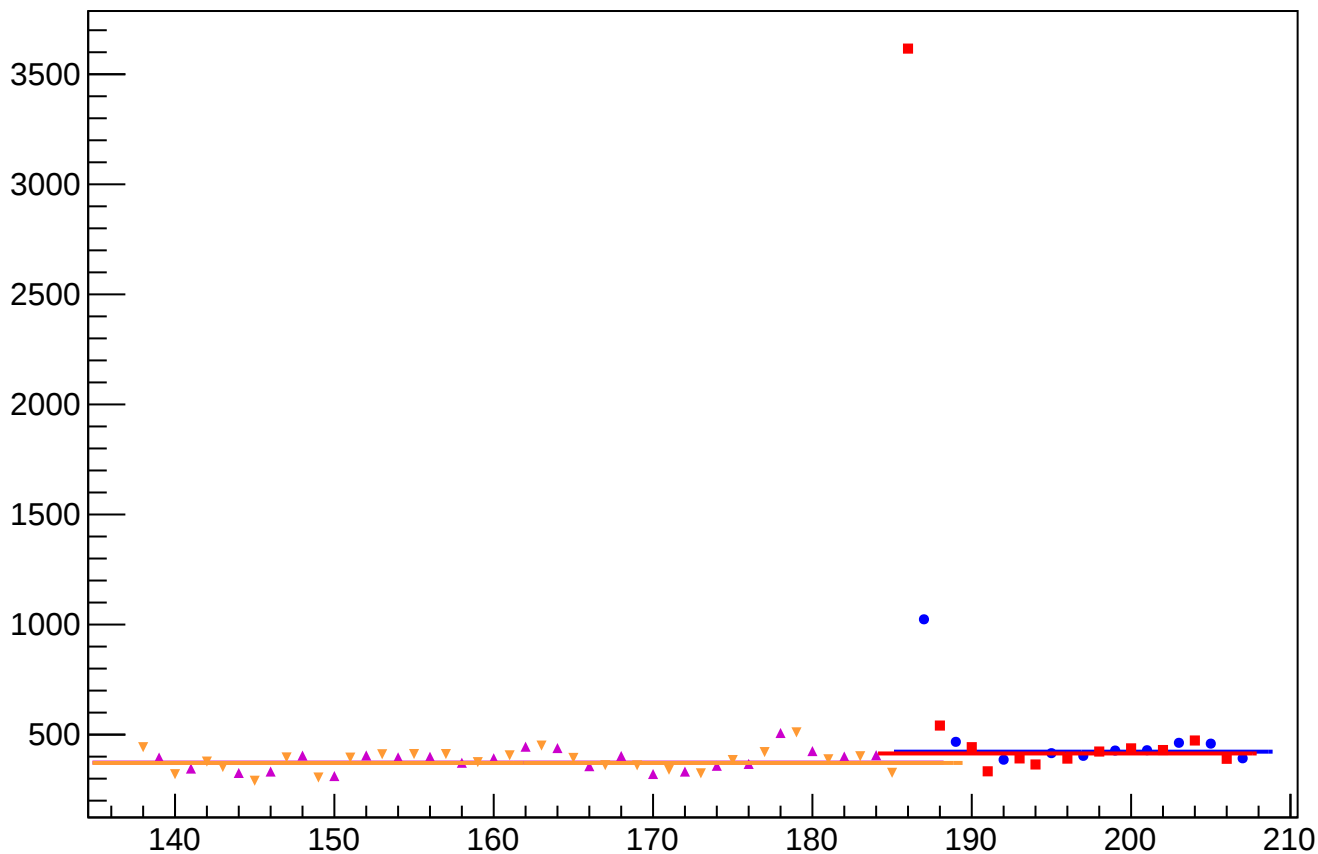
Right: -35.961 ± 109.536 χ^2/NDF : 21.6/21

In: -19.713 ± 78.443 χ^2/NDF : 41.4/32

Out: -174.252 ± 75.632 χ^2/NDF : 48.8/36

All: -99.802 ± 54.446 χ^2/NDF : 92.2/69

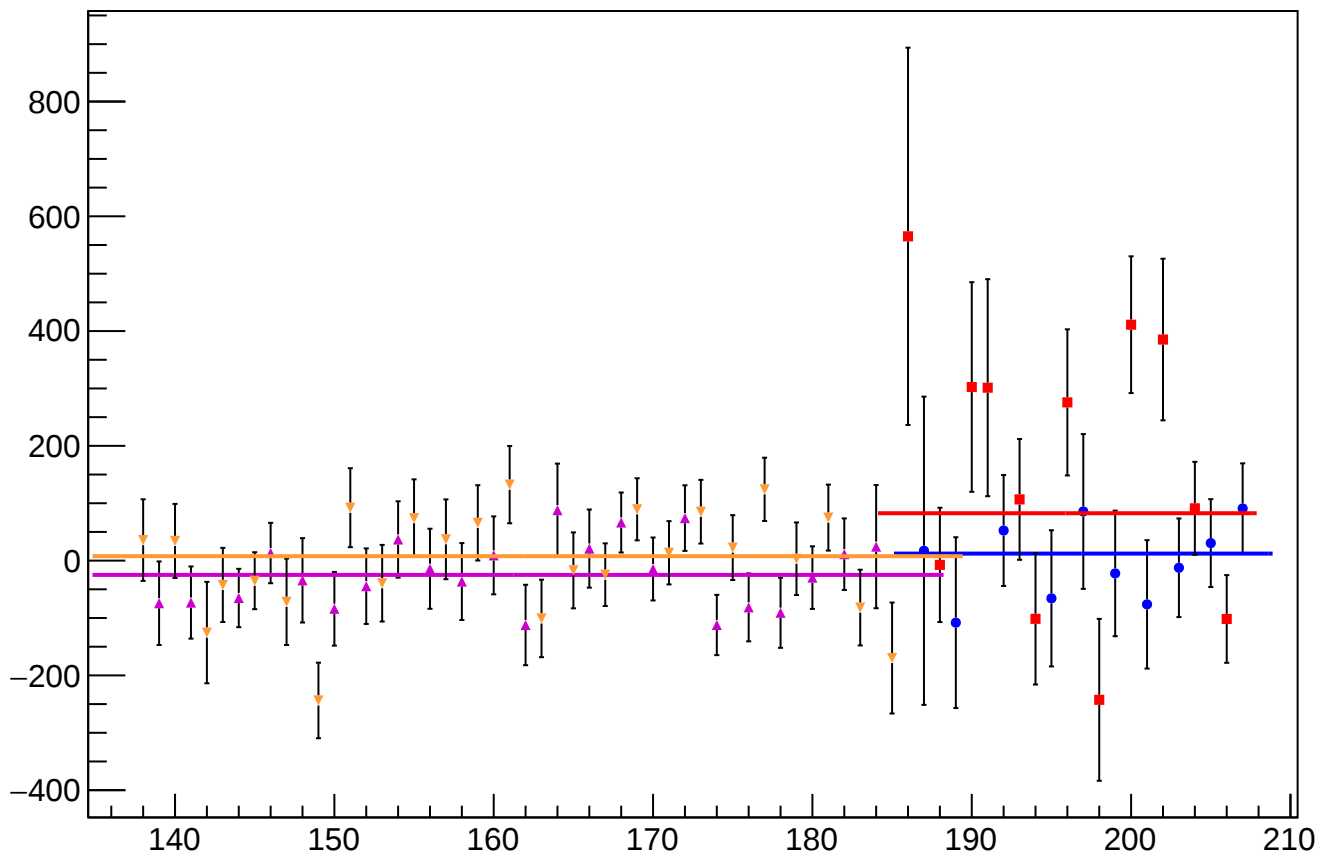
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 422.577 $\pm$ 0.113 χ^2/NDF : 162779.4/9
 Left Out: 371.356 $\pm$ 0.062 χ^2/NDF : 604070.6/24
 Right Out: 414.414 $\pm$ 0.107 χ^2/NDF : 780593.4/11
 Left In: 372.938 $\pm$ 0.064 χ^2/NDF : 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2/NDF : 1071729.1/47
 Right: 418.262 $\pm$ 0.077 χ^2/NDF : 946140.5/21
 In: 384.938 $\pm$ 0.055 χ^2/NDF : 776926.5/32
 Out: 382.208 $\pm$ 0.053 χ^2/NDF : 1506865.4/36
 All: 383.523 $\pm$ 0.038 χ^2/NDF : 2285047.1/69

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 12.256+/-32.908 χ^2/NDF : 3.4/9

Left Out: 7.723+/-12.656 χ^2/NDF : 45.4/24

Right Out: 82.585+/-33.505 χ^2/NDF : 34.0/11

Left In: -24.887+/-13.029 χ^2/NDF : 19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

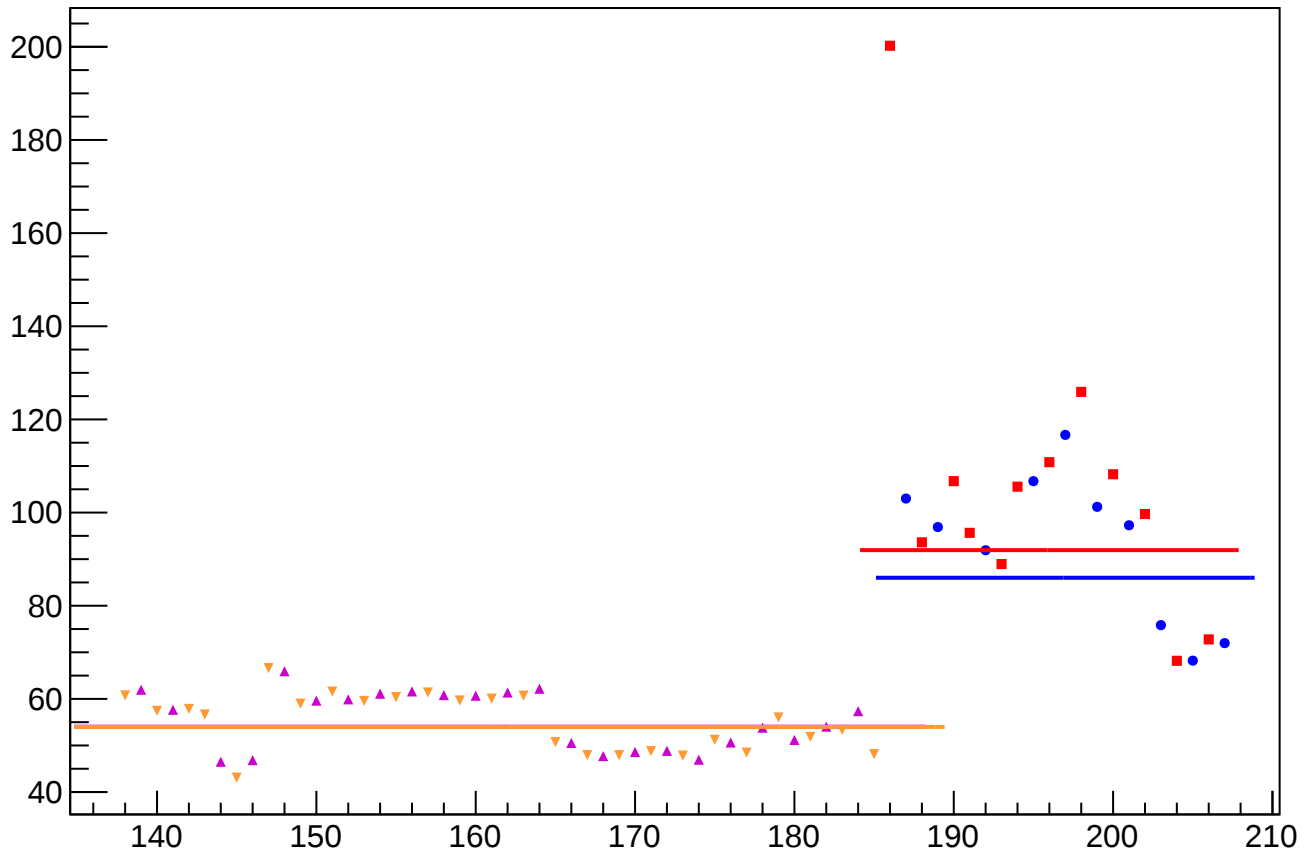
Right: 46.788+/-23.478 χ^2/NDF : 39.7/21

In: -19.854+/-12.114 χ^2/NDF : 24.3/32

Out: 17.071+/-11.839 χ^2/NDF : 83.8/36

All: -0.968+/-8.467 χ^2/NDF : 112.8/69

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 86.007 $\pm$ 0.023 χ^2 /NDF: 449644.8/9

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 91.936 $\pm$ 0.024 χ^2 /NDF: 762610.2/11

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

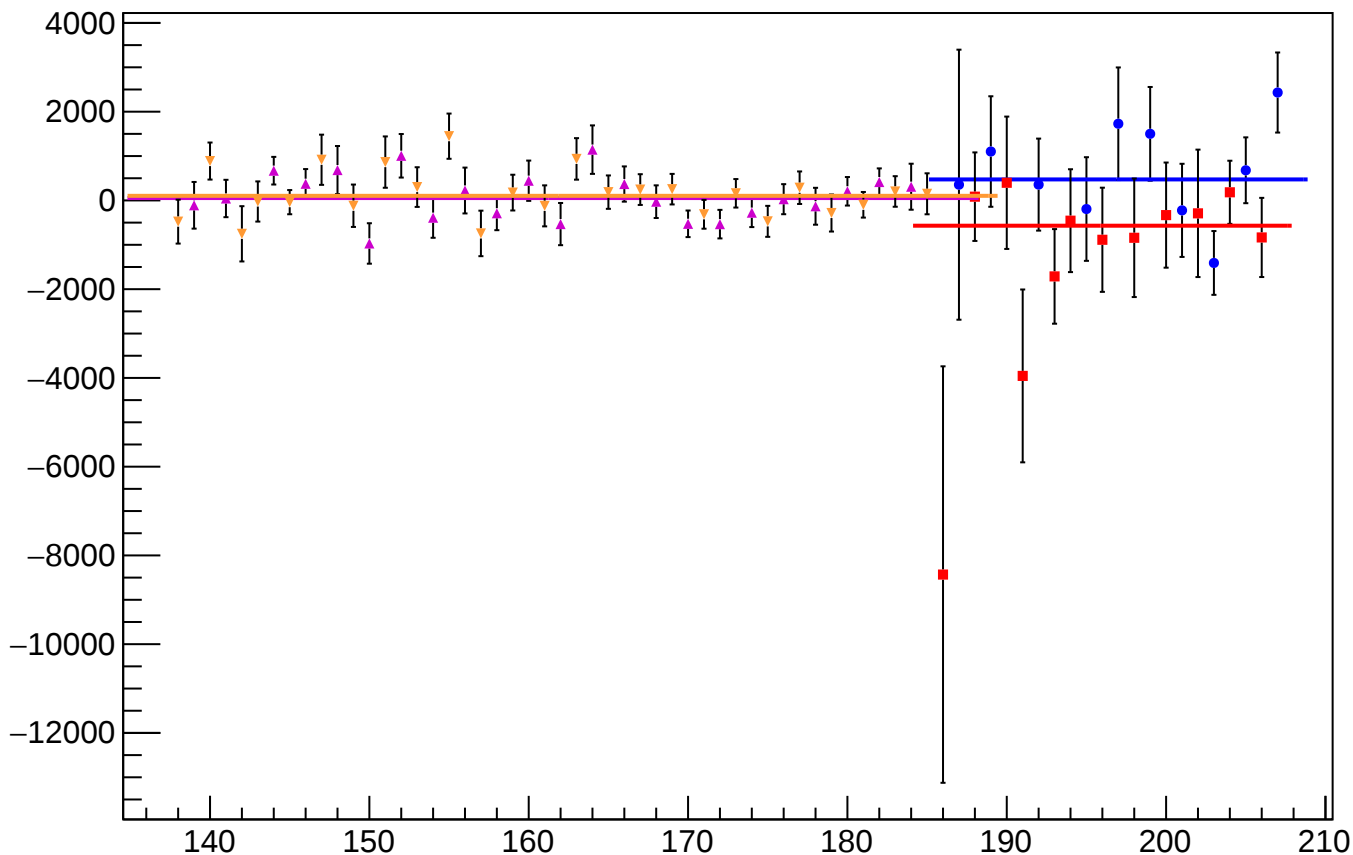
Right: 88.918 $\pm$ 0.017 χ^2 /NDF: 1244129.9/21

In: 58.361 $\pm$ 0.009 χ^2 /NDF: 2526253.7/32

Out: 58.722 $\pm$ 0.008 χ^2 /NDF: 3467343.2/36

All: 58.546 $\pm$ 0.006 χ^2 /NDF: 5994507.0/69

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 473.383 $\pm$ 319.049 χ^2 /NDF: 14.6/9

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -569.550 $\pm$ 331.403 χ^2 /NDF: 9.2/11

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

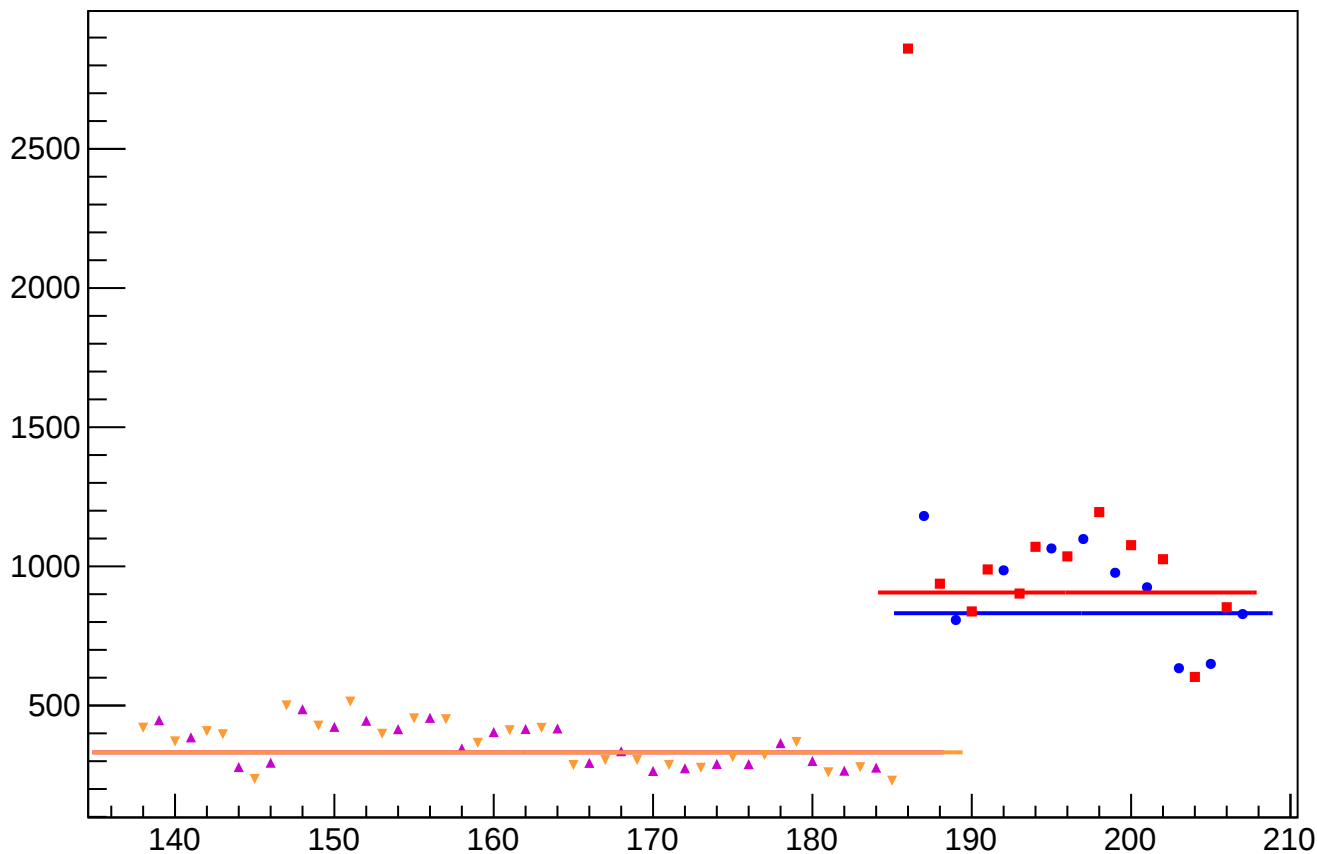
Right: -28.282 $\pm$ 229.845 χ^2 /NDF: 29.0/21

In: 79.037 $\pm$ 78.692 χ^2 /NDF:50.3/32

Out: 67.264 $\pm$ 77.163 χ^2 /NDF:44.1/36

All: 73.035 $\pm$ 55.095 χ^2 /NDF: 94.5/69

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 831.643+/-0.226 χ^2/NDF : 564292.7/9

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 906.044+/-0.234 χ^2/NDF : 940941.9/11

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

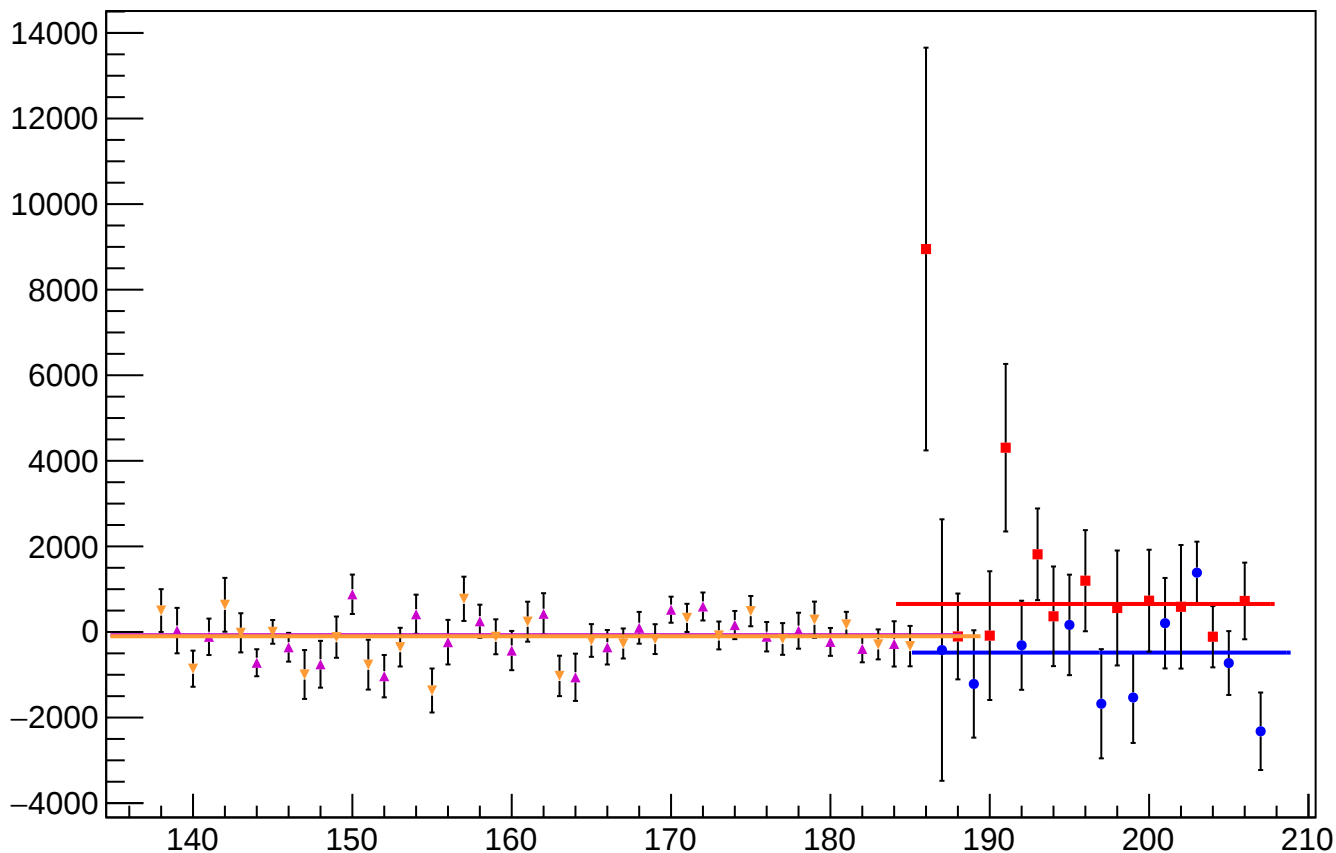
Right: 867.431+/-0.163 χ^2/NDF : 1557549.9/21

In: 362.082+/-0.056 χ^2/NDF : 6480225.1/32

Out: 362.904+/-0.055 χ^2/NDF : 8332662.8/36

All: 362.501+/-0.039 χ^2/NDF : 14812999.1/69

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -482.108+/-320.977 χ^2 /NDF: 13.8/9

Left Out: -99.785+/-80.428 χ^2 /NDF:30.7/24

Right Out: 654.513+/-333.295 χ^2 /NDF: 10.0/11

Left In: -75.579+/-82.319 χ^2 /NDF:32.1/22

Left: -87.963+/-57.528 χ^2 /NDF: 62.8/47

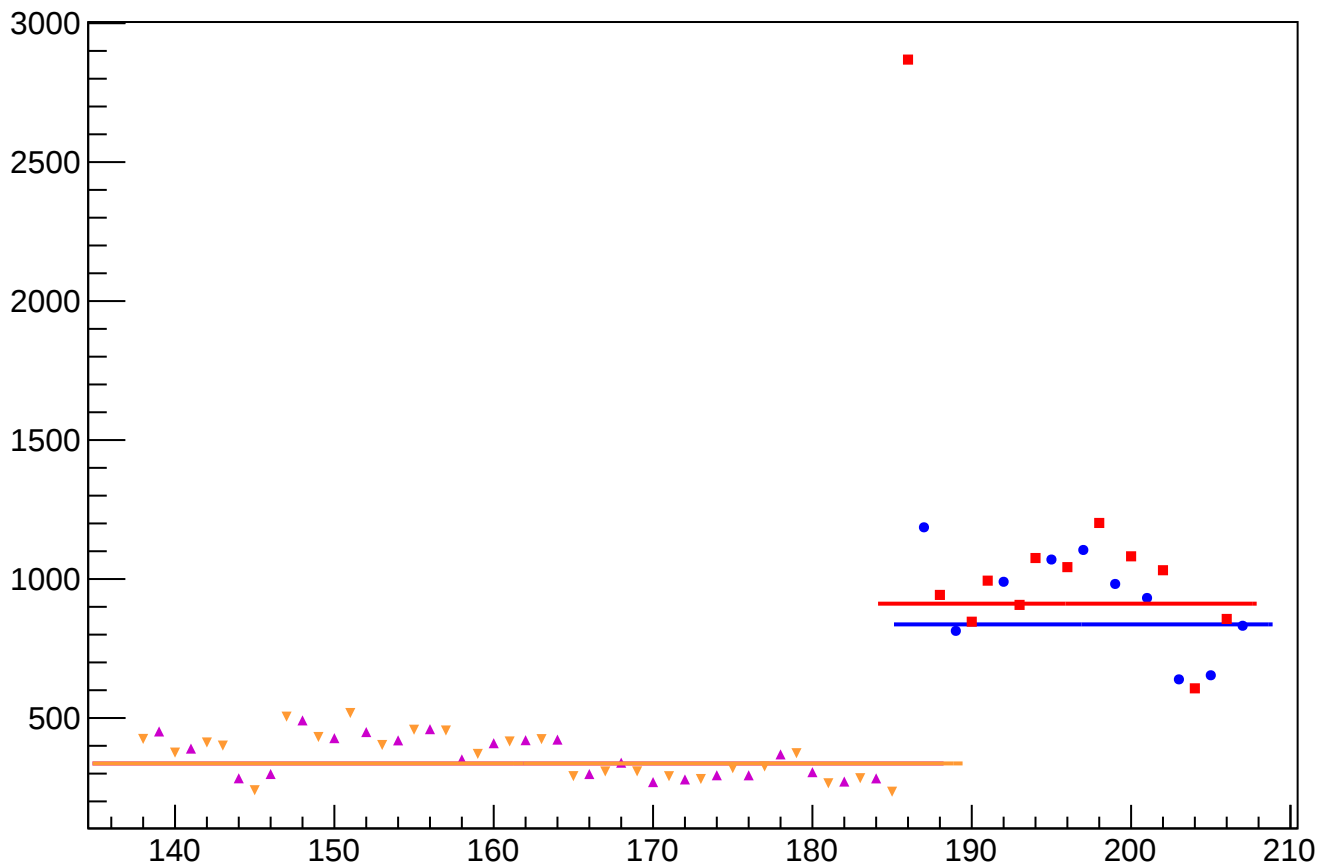
Right: 64.811+/-231.197 χ^2 /NDF: 29.9/21

In: -100.668+/-79.738 χ^2 /NDF:47.4/32

Out: -58.278+/-78.184 χ^2 /NDF:45.5/36

All: -79.056+/-55.826 χ^2 /NDF: 93.1/69

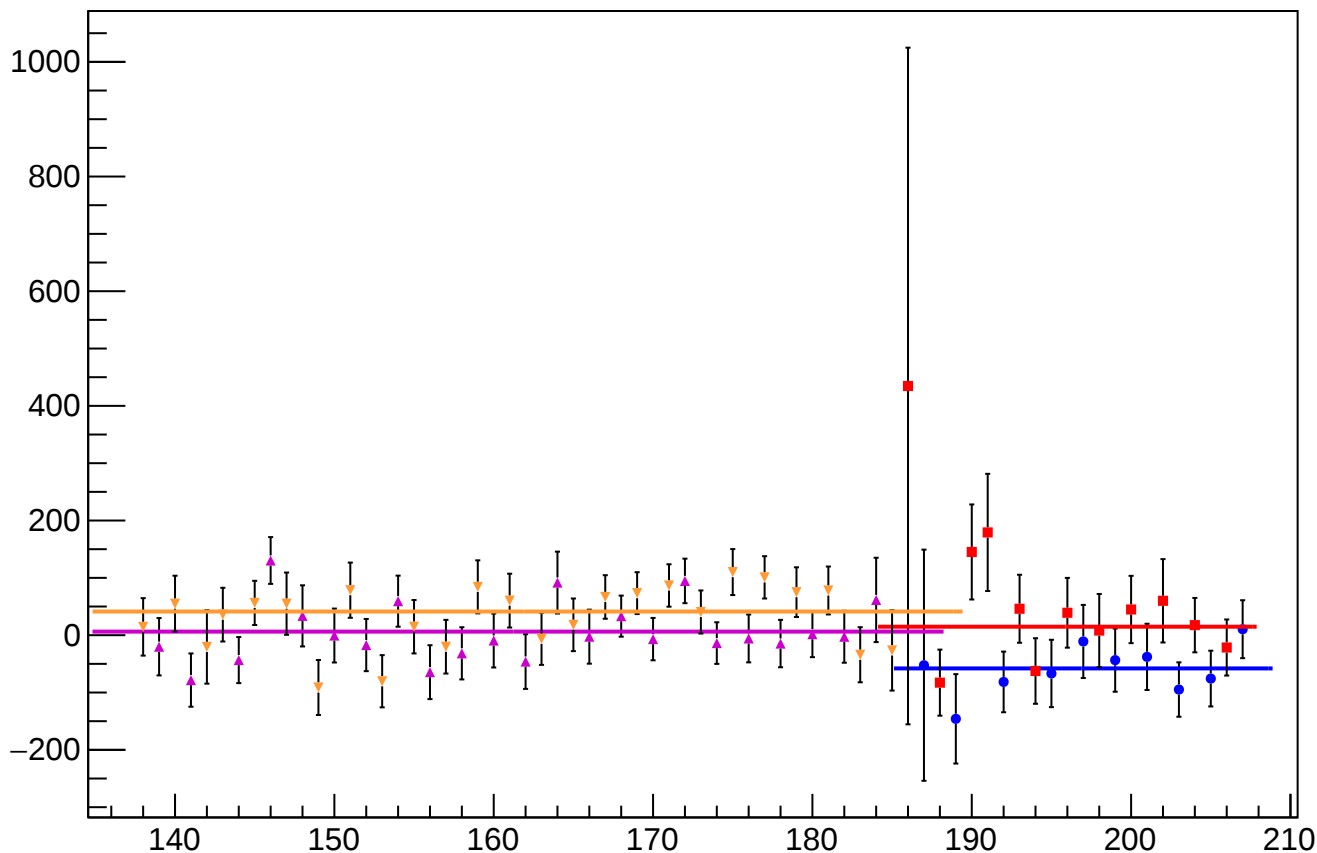
asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 836.827 ± 0.227 $\chi^2/\text{NDF}: 560519.1/9$
 Left Out: 336.557 ± 0.057 $\chi^2/\text{NDF}: 1665919.4/24$
 Right Out: 911.372 ± 0.236 $\chi^2/\text{NDF}: 937507.5/11$
 Left In: 336.439 ± 0.058 $\chi^2/\text{NDF}: 1269066.3/22$

Left: 336.500 ± 0.041 $\chi^2/\text{NDF}: 2934987.9/47$
 Right: 872.696 ± 0.163 $\chi^2/\text{NDF}: 1549933.1/21$
 In: 367.320 ± 0.056 $\chi^2/\text{NDF}: 6390287.6/32$
 Out: 368.188 ± 0.055 $\chi^2/\text{NDF}: 8224869.0/36$
 All: 367.763 ± 0.039 $\chi^2/\text{NDF}: 14615277.2/69$

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -57.963 ± 18.350 χ^2/NDF : 4.8/9

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 14.802 ± 18.280 χ^2/NDF : 11.9/11

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

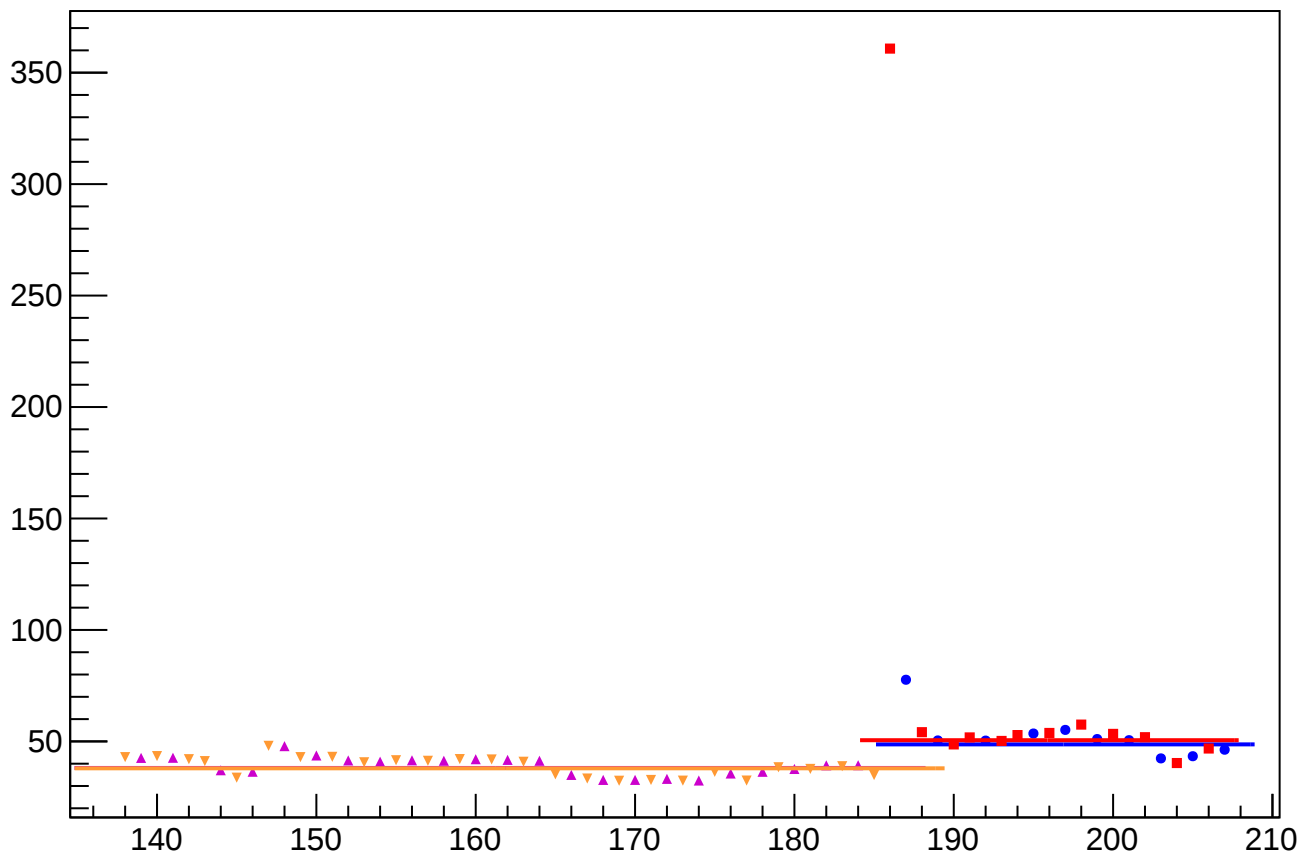
Right: -21.442 ± 12.951 χ^2/NDF : 24.6/21

In: -6.589 ± 8.206 χ^2/NDF : 44.9/32

Out: 36.219 ± 7.994 χ^2/NDF : 48.0/36

All: 15.375 ± 5.726 χ^2/NDF : 106.8/69

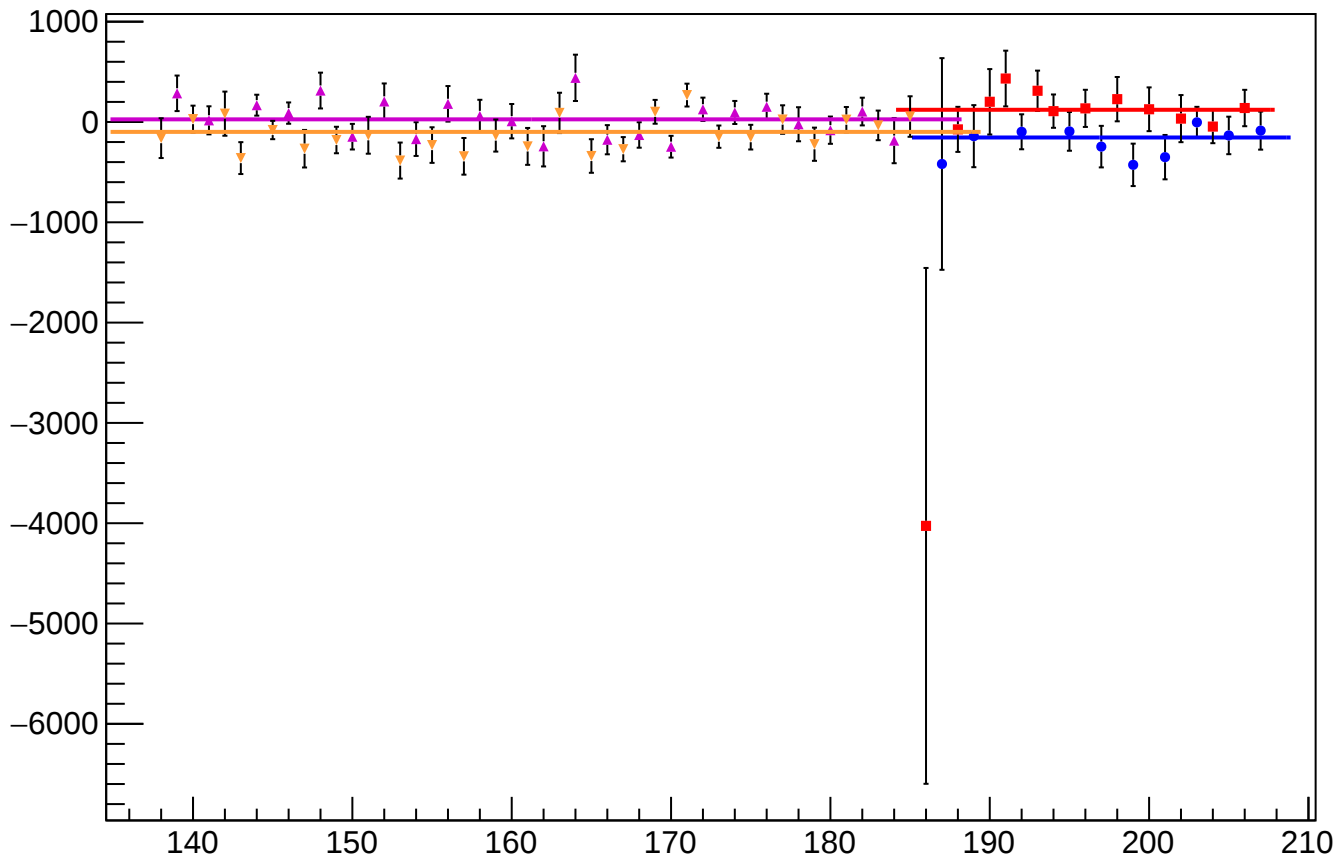
reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.665 ± 0.013 $\chi^2/\text{NDF}: 148348.3/9$
 Left Out: 37.925 ± 0.006 $\chi^2/\text{NDF}: 487085.3/24$
 Right Out: 50.538 ± 0.013 $\chi^2/\text{NDF}: 705222.0/11$
 Left In: 38.087 ± 0.006 $\chi^2/\text{NDF}: 396334.5/22$

Left: 38.004 ± 0.005 $\chi^2/\text{NDF}: 883742.3/47$
 Right: 49.605 ± 0.009 $\chi^2/\text{NDF}: 864020.8/21$
 In: 40.203 ± 0.006 $\chi^2/\text{NDF}: 1076397.2/32$
 Out: 40.337 ± 0.006 $\chi^2/\text{NDF}: 1962332.3/36$
 All: 40.272 ± 0.004 $\chi^2/\text{NDF}: 3039004.7/69$

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -154.530 ± 65.147 $\chi^2/\text{NDF}: 4.0/9$

Left Out: -98.741 ± 29.095 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 121.640 ± 62.136 $\chi^2/\text{NDF}: 7.0/11$

Left In: 26.223 ± 29.676 $\chi^2/\text{NDF}: 30.7/22$

Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

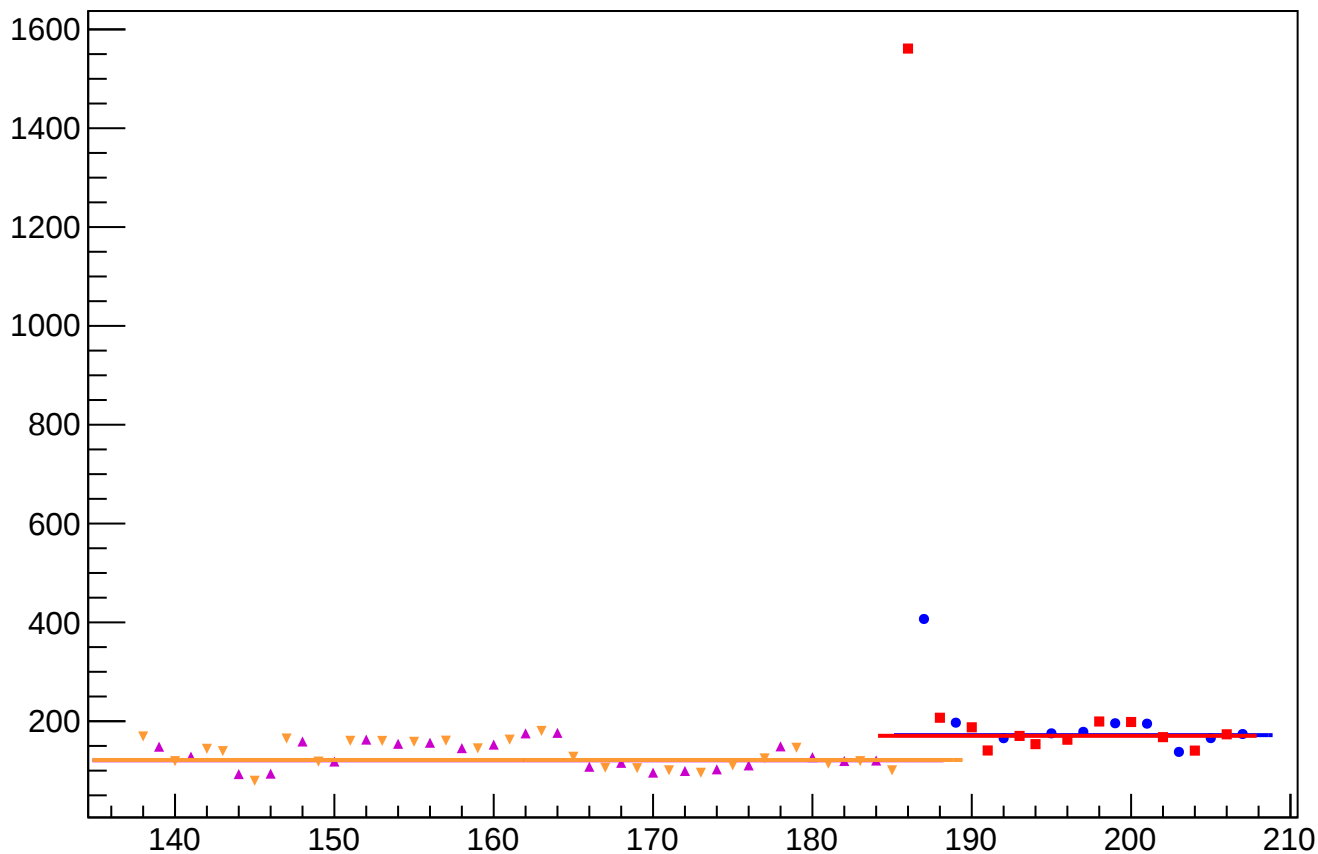
Right: -9.916 ± 44.964 $\chi^2/\text{NDF}: 20.4/21$

In: -4.838 ± 27.006 $\chi^2/\text{NDF}: 41.1/32$

Out: -59.110 ± 26.350 $\chi^2/\text{NDF}: 50.0/36$

All: -32.641 ± 18.860 $\chi^2/\text{NDF}: 93.2/69$

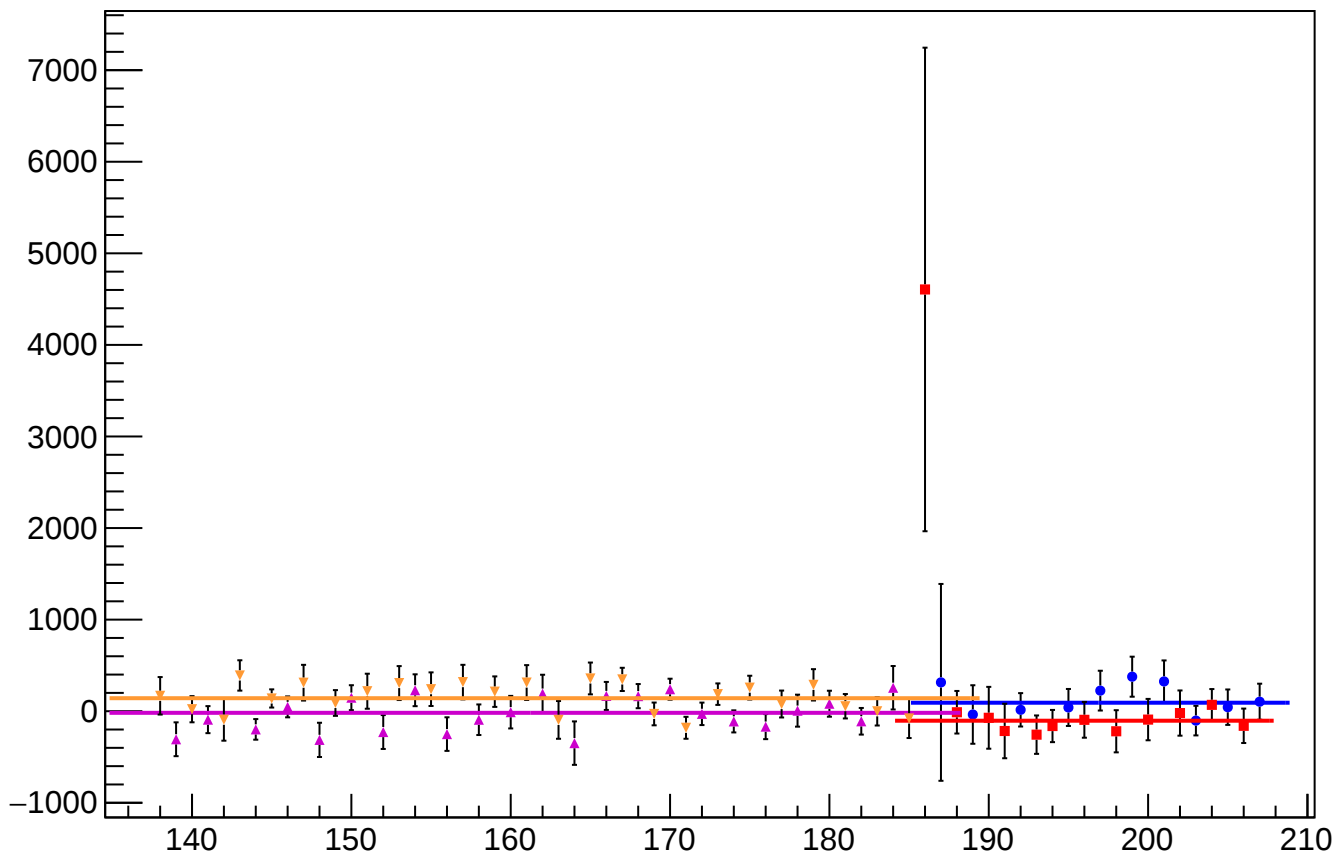
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.830 $\pm$ 0.046 χ^2 /NDF: 264891.2/9
 Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF: 1711423.9/24
 Right Out: 170.461 $\pm$ 0.044 χ^2 /NDF: 824206.0/11
 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: 171.113 $\pm$ 0.032 χ^2 /NDF: 1089559.7/21
 In: 129.674 $\pm$ 0.019 χ^2 /NDF: 2658960.4/32
 Out: 130.380 $\pm$ 0.019 χ^2 /NDF: 3550257.9/36
 All: 130.036 $\pm$ 0.013 χ^2 /NDF: 6209918.4/69

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 92.638 ± 67.843 $\chi^2/\text{NDF}: 5.1/9$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -103.790 ± 64.983 $\chi^2/\text{NDF}: 5.6/11$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

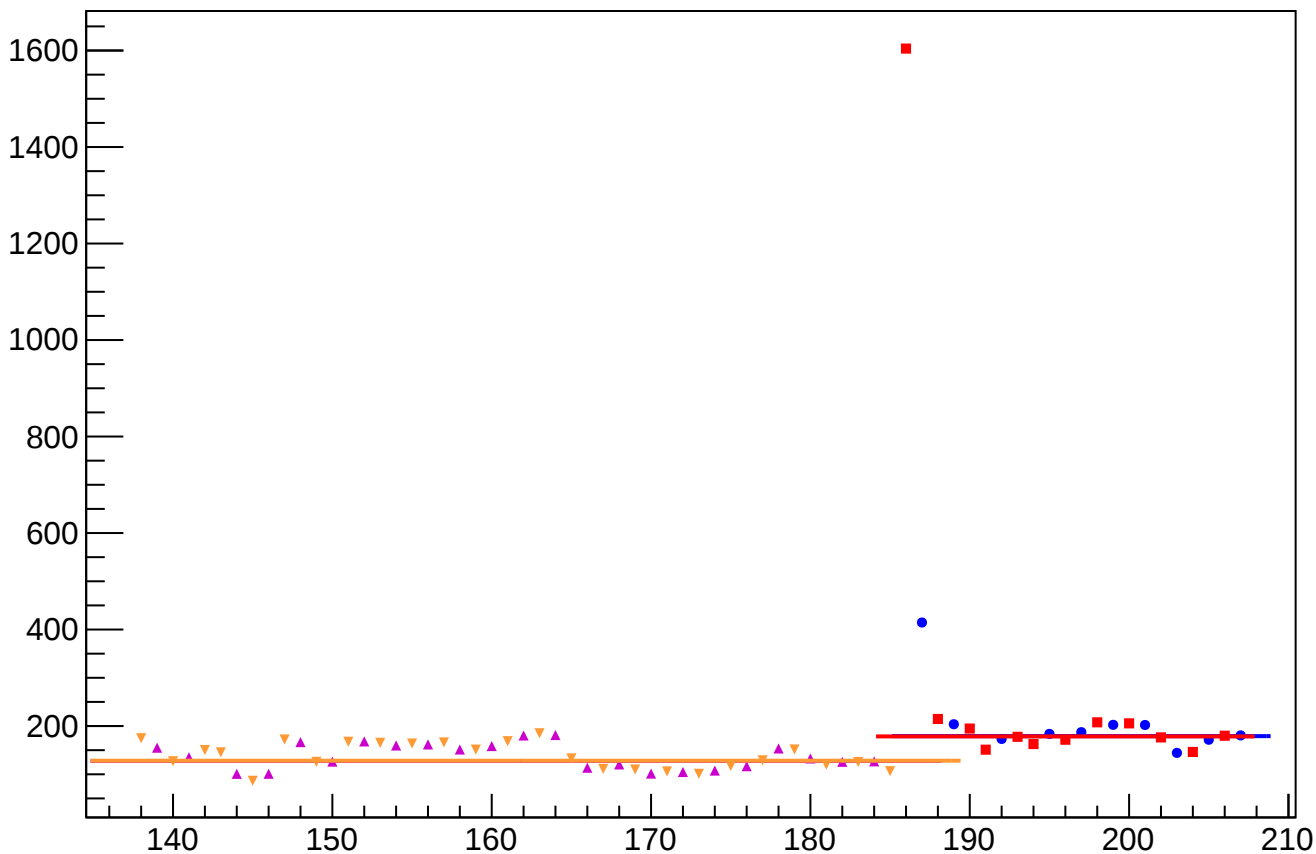
Right: -9.804 ± 46.929 $\chi^2/\text{NDF}: 15.0/21$

In: 1.588 ± 28.353 $\chi^2/\text{NDF}: 37.4/32$

Out: 97.463 ± 27.665 $\chi^2/\text{NDF}: 44.2/36$

All: 50.702 ± 19.801 $\chi^2/\text{NDF}: 87.4/69$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 179.082 $\pm$ 0.048 χ^2 /NDF: 252461.6/9

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 178.509 $\pm$ 0.046 χ^2 /NDF: 802665.8/11

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF: 1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

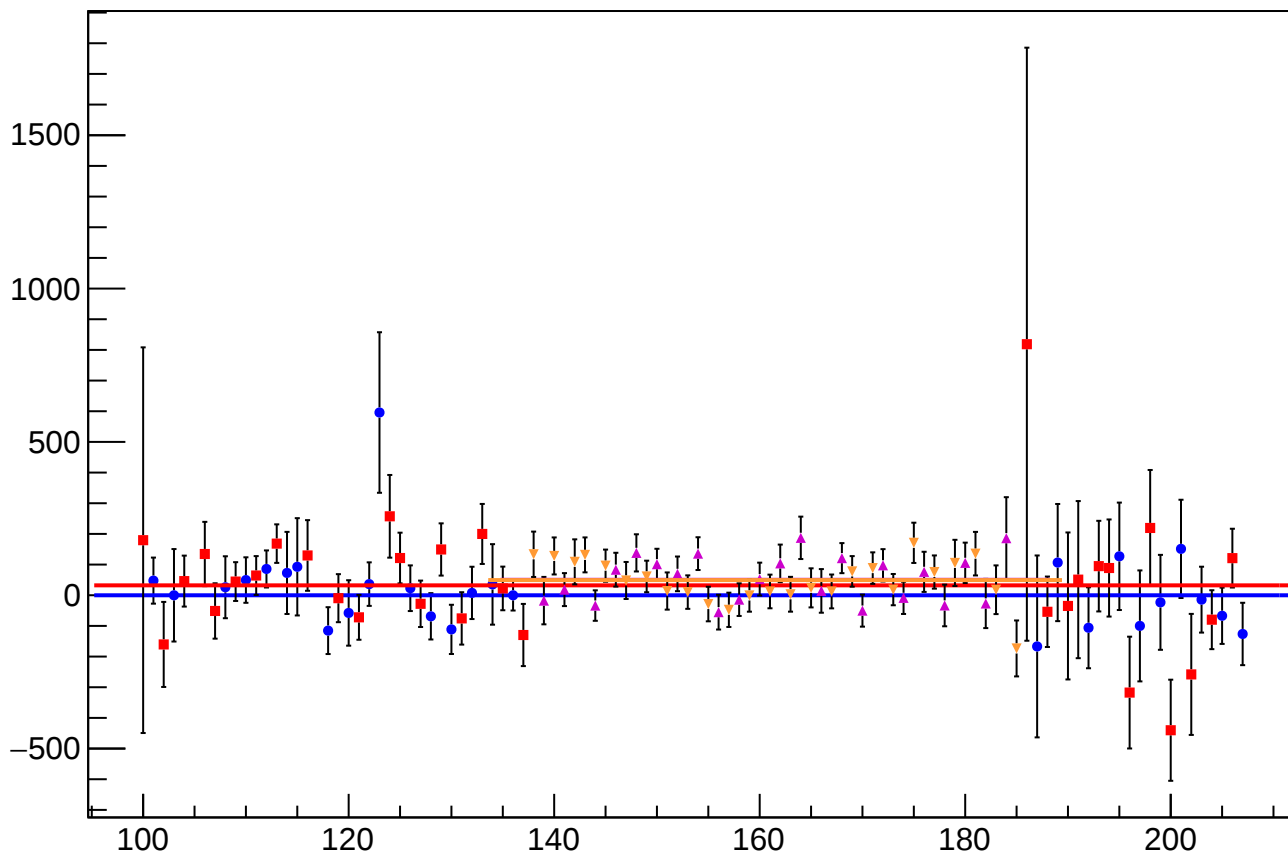
Right: 178.783 $\pm$ 0.033 χ^2 /NDF: 1055202.0/21

In: 136.545 $\pm$ 0.020 χ^2 /NDF: 2440775.8/32

Out: 137.298 $\pm$ 0.020 χ^2 /NDF: 3318021.2/36

All: 136.931 $\pm$ 0.014 χ^2 /NDF: 5759519.5/69

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -0.135 ± 18.268 $\chi^2/\text{NDF}: 19.6/26$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 32.245 ± 17.750 $\chi^2/\text{NDF}: 44.3/30$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

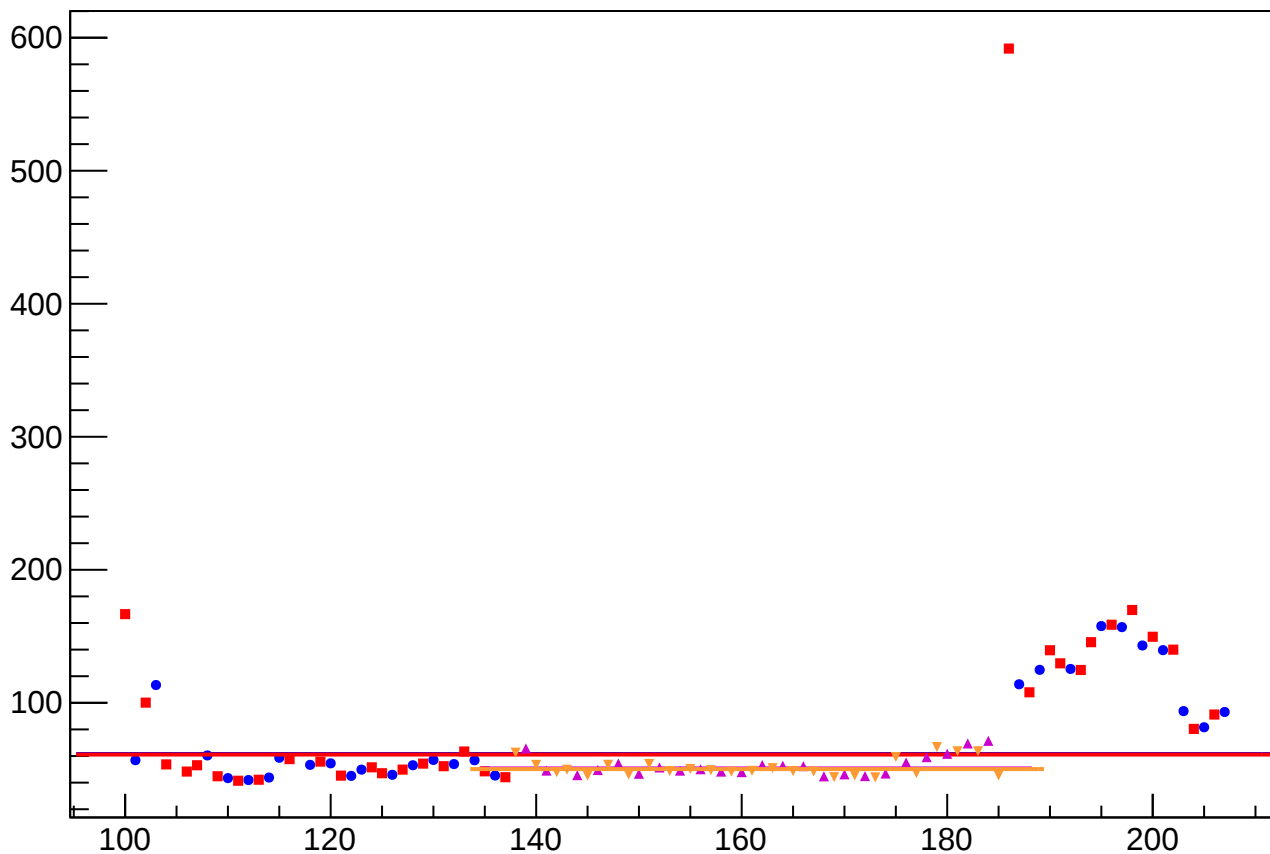
Right: 16.521 ± 12.730 $\chi^2/\text{NDF}: 65.5/57$

In: 34.671 ± 10.176 $\chi^2/\text{NDF}: 57.1/49$

Out: 44.140 ± 9.830 $\chi^2/\text{NDF}: 73.0/55$

All: 39.570 ± 7.070 $\chi^2/\text{NDF}: 130.5/105$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 61.529 $\pm$ 0.013 χ^2 /NDF: 4512393.8/26

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 61.120 $\pm$ 0.013 χ^2 /NDF: 5795355.3/30

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

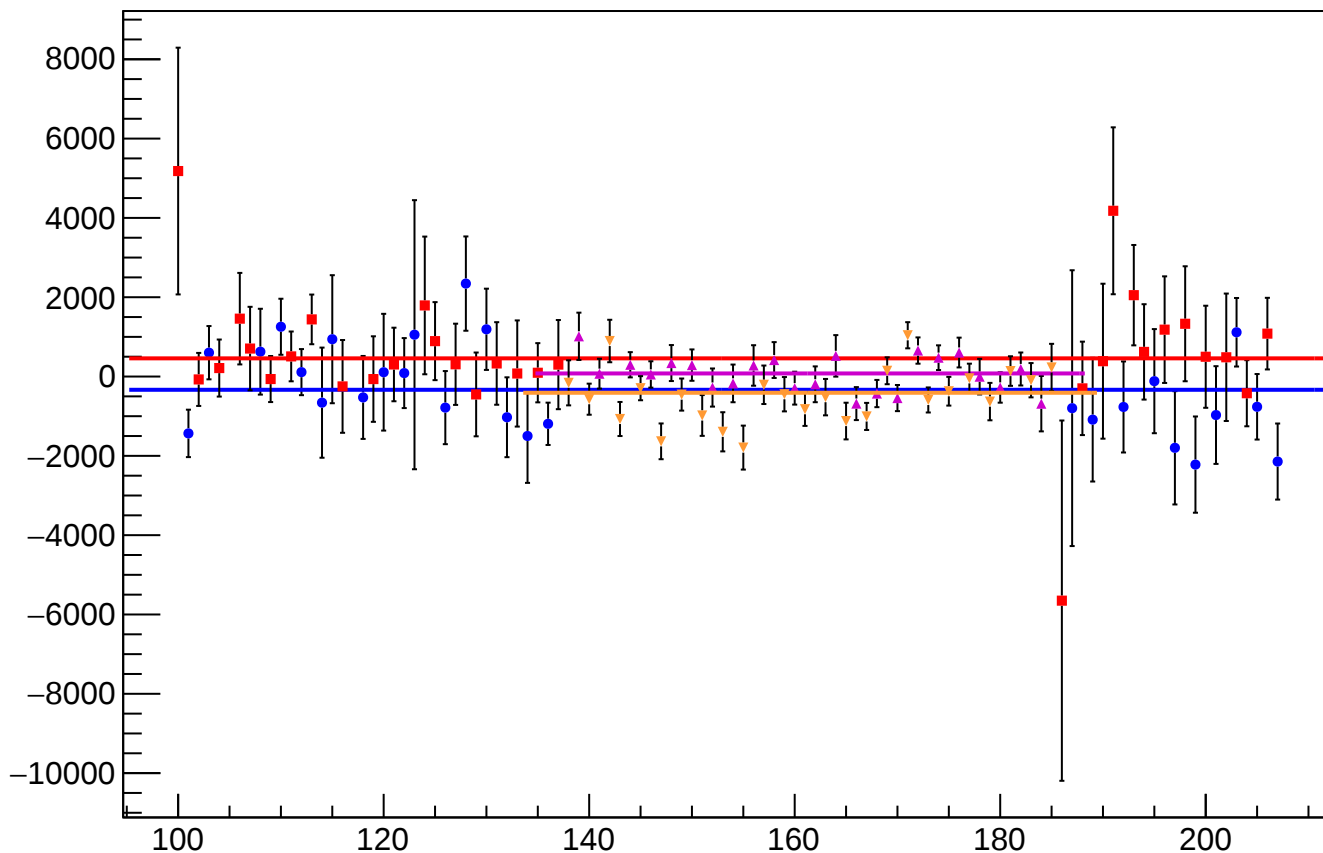
Right: 61.319 $\pm$ 0.009 χ^2 /NDF: 10308263.5/57

In: 54.048 $\pm$ 0.007 χ^2 /NDF: 5467884.6/49

Out: 53.542 $\pm$ 0.007 χ^2 /NDF: 6788900.5/55

All: 53.786 $\pm$ 0.005 χ^2 /NDF: 12259349.6/105

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -334.131 ± 182.318 χ^2/NDF : 35.3/26

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 458.458 ± 178.803 χ^2/NDF : 18.9/30

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

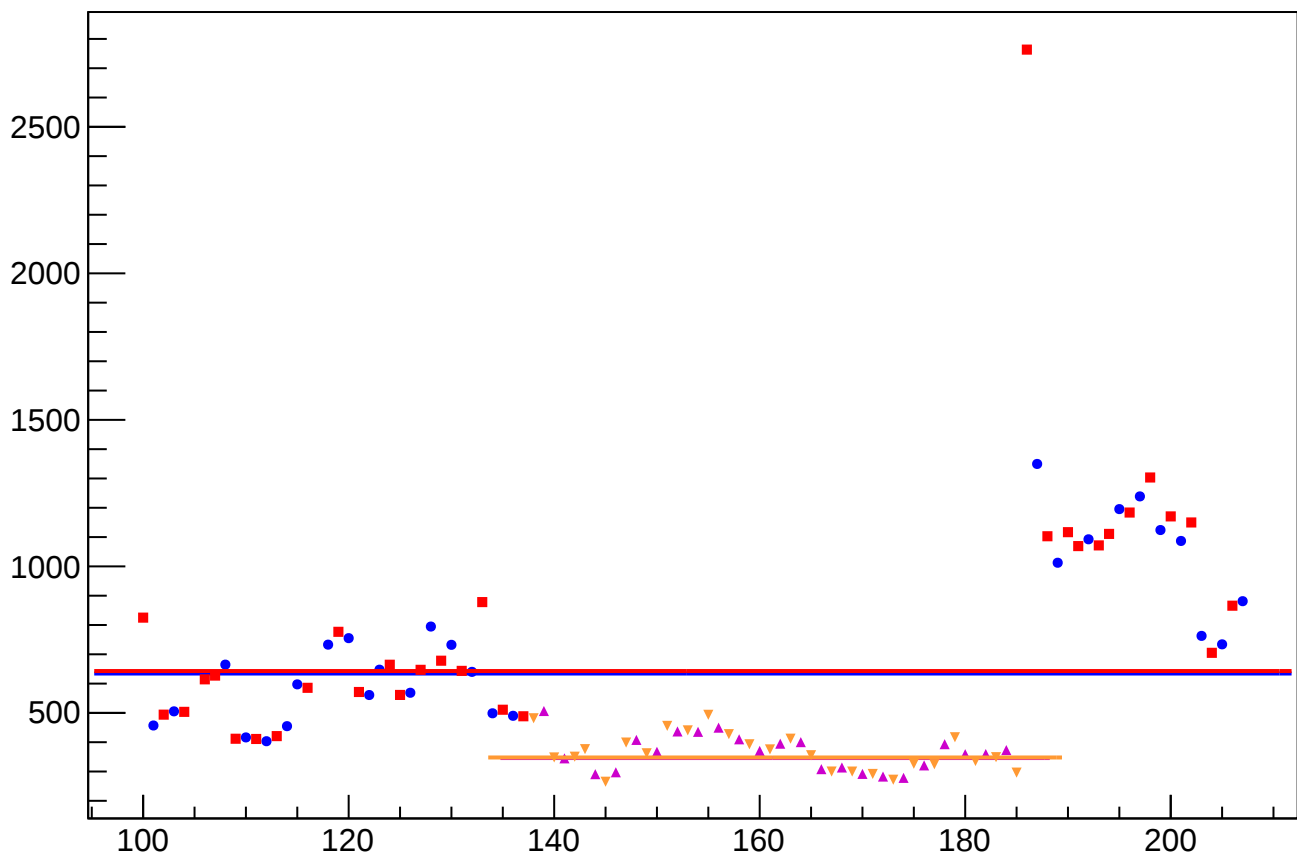
Right: 69.878 ± 127.657 χ^2/NDF : 63.8/57

In: 5.626 ± 76.346 χ^2/NDF : 64.4/49

Out: -257.336 ± 74.797 χ^2/NDF : 100.0/55

All: -128.550 ± 53.429 χ^2/NDF : 170.4/105

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 634.425+/-0.129 χ^2/NDF : 3120119.6/26

Left Out: 347.875+/-0.058 χ^2/NDF :1044096.7/24

Right Out: 642.873+/-0.126 χ^2/NDF : 4130612.7/30

Left In: 345.954+/-0.059 χ^2/NDF :900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

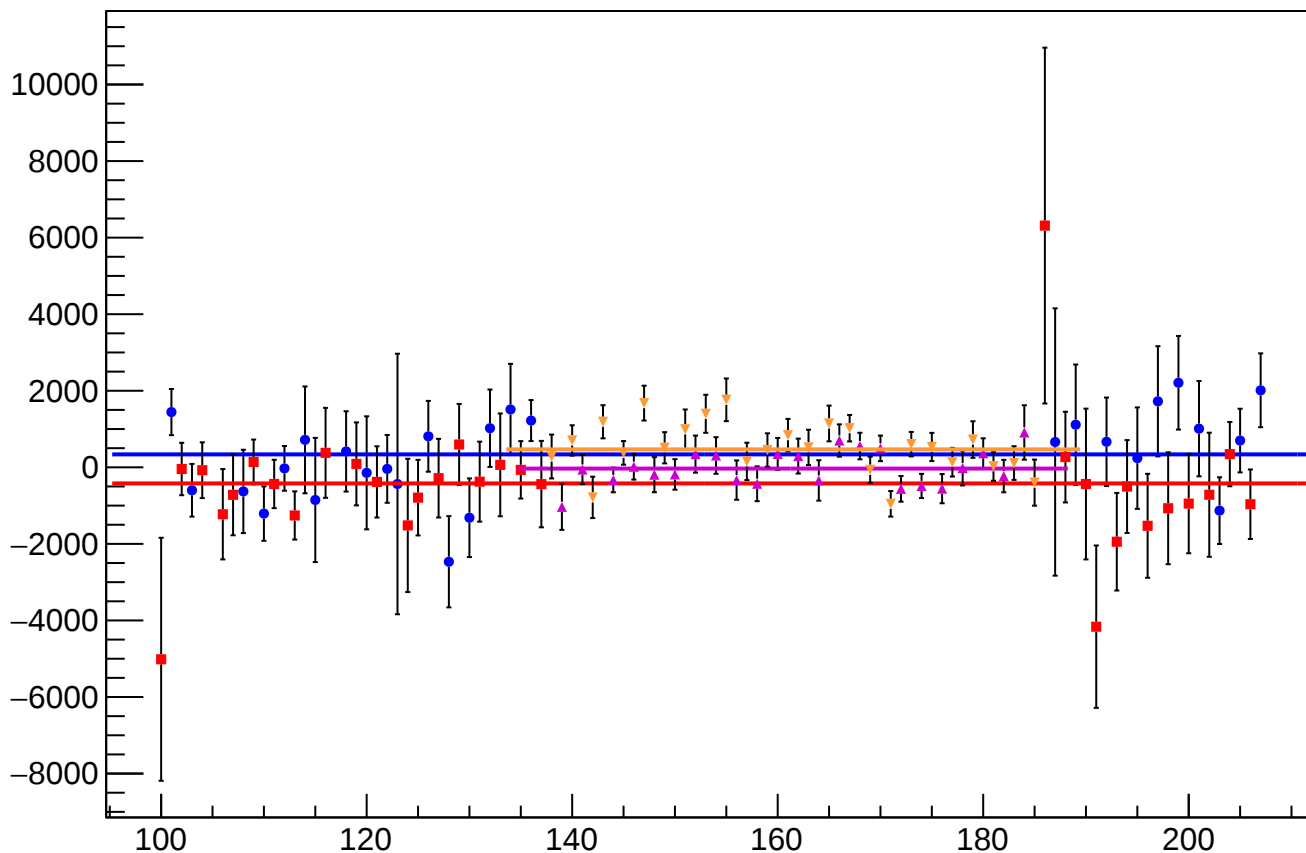
Right: 638.731+/-0.090 χ^2/NDF : 7252921.1/57

In: 396.539+/-0.054 χ^2/NDF :8149949.1/49

Out: 399.498+/-0.053 χ^2/NDF :9666072.0/55

All: 398.048+/-0.038 χ^2/NDF : 17817554.2/100

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 338.064 $\pm$ 183.625 χ^2 /NDF: 34.6/26

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -420.650 $\pm$ 180.178 χ^2 /NDF: 17.6/30

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

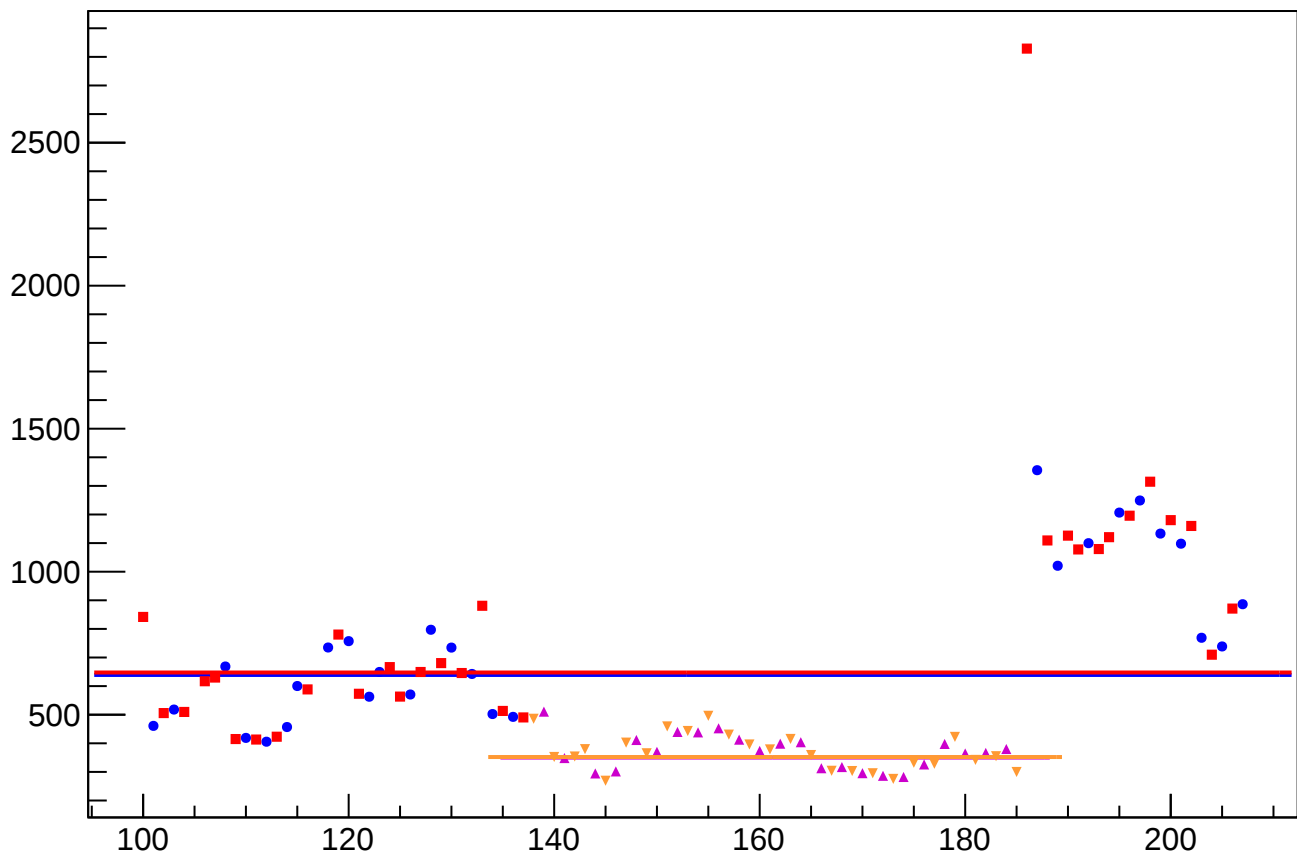
Right: -48.481 $\pm$ 128.606 χ^2 /NDF: 60.9/57

In: 32.724 $\pm$ 77.184 χ^2 /NDF:63.6/49

Out: 312.233 $\pm$ 75.607 χ^2 /NDF:95.2/55

All: 175.363 $\pm$ 54.011 χ^2 /NDF: 165.5/105

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 639.038+/-0.130 χ^2/NDF : 3116124.7/26

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 647.559+/-0.127 χ^2/NDF : 4131875.9/30

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

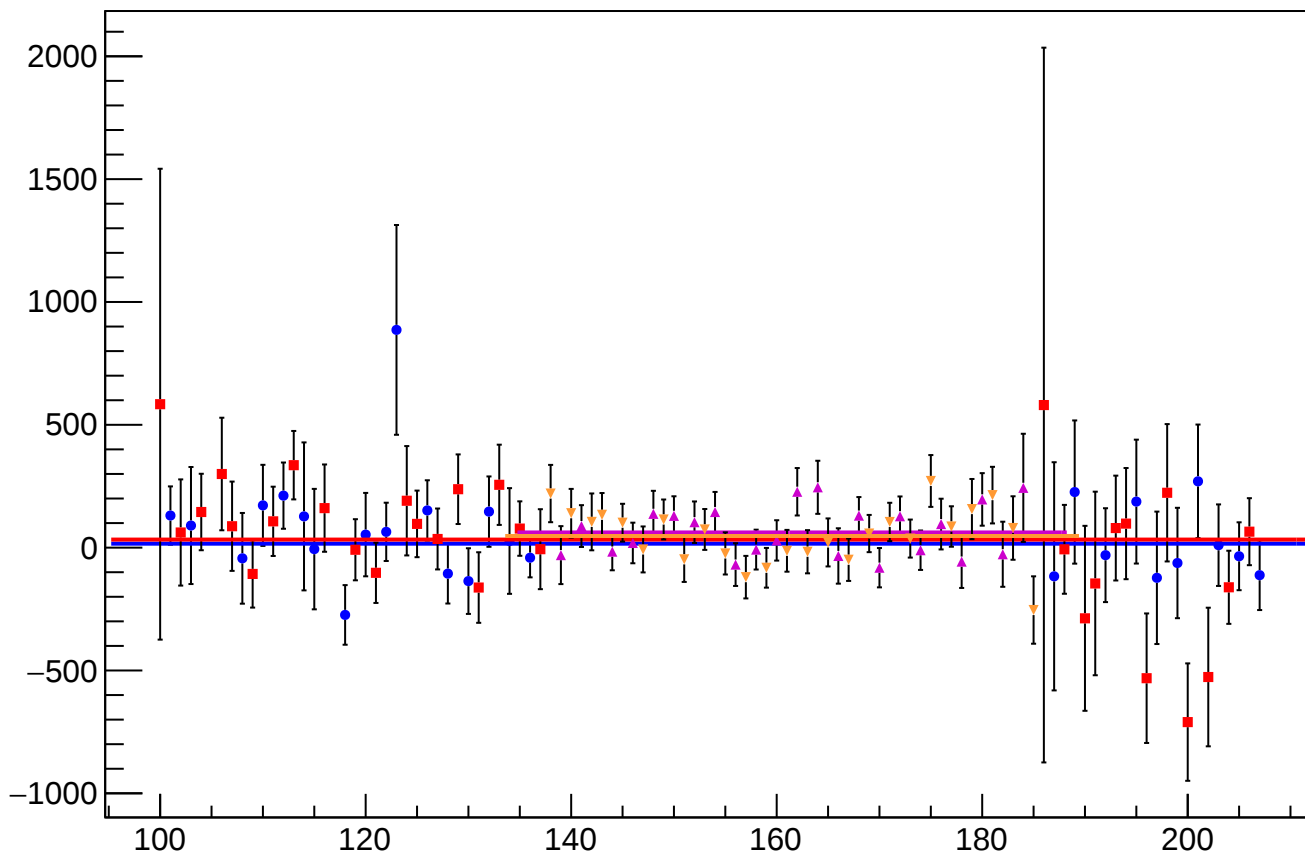
Right: 643.379+/-0.091 χ^2/NDF : 7250195.0/57

In: 401.200+/-0.055 χ^2/NDF : 8069830.9/49

Out: 404.056+/-0.053 χ^2/NDF : 9582669.2/55

All: 402.657+/-0.038 χ^2/NDF : 17653897.4/100

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 16.184 $\pm$ 30.378 χ^2 /NDF: 22.9/26

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 32.866 $\pm$ 30.590 χ^2 /NDF: 38.6/30

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

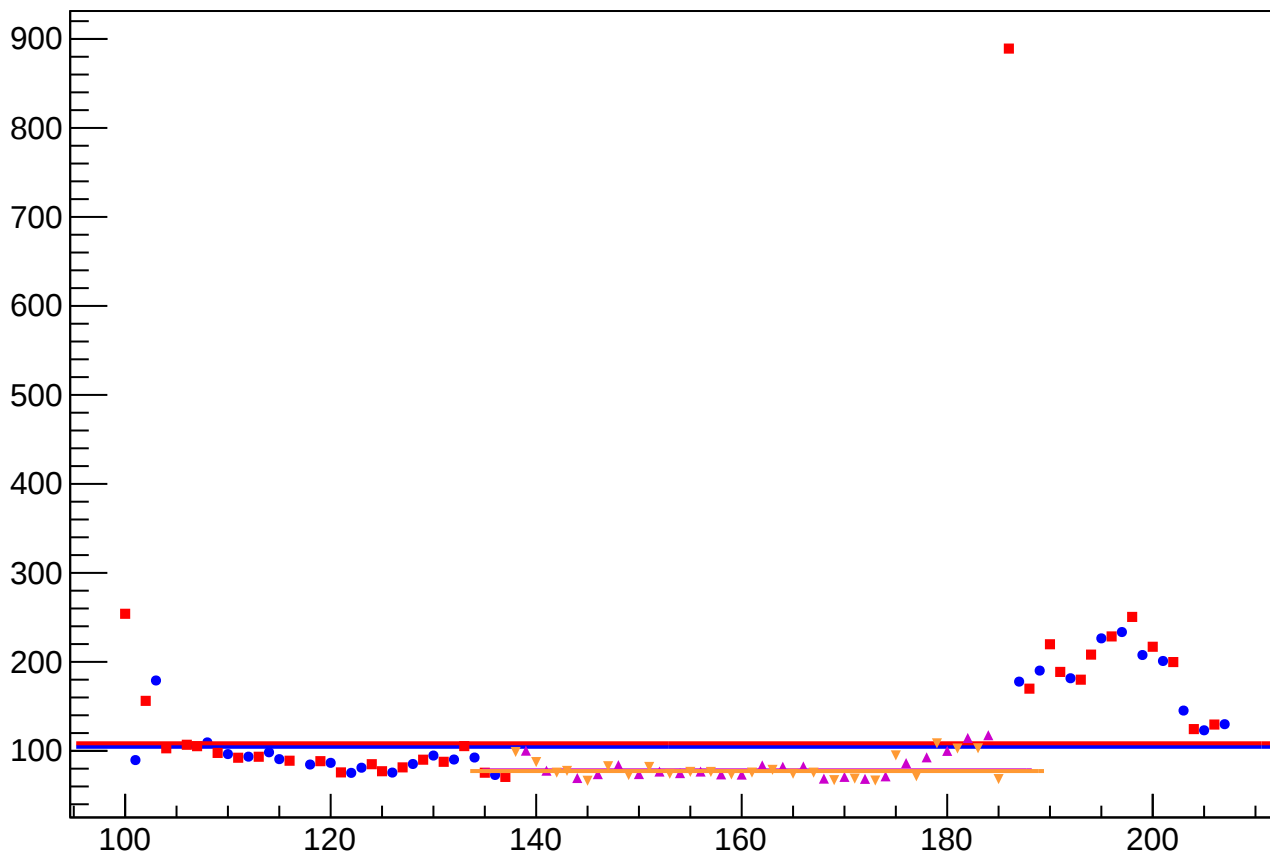
Right: 24.467 $\pm$ 21.555 χ^2 /NDF: 61.7/57

In: 49.036 $\pm$ 16.083 χ^2 /NDF:48.5/49

Out: 43.603 $\pm$ 15.674 χ^2 /NDF:68.2/55

All: 46.249 $\pm$ 11.225 χ^2 /NDF: 116.7/105

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 104.592 $\pm$ 0.021 χ^2 /NDF: 3434441.3/26

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 108.524 $\pm$ 0.022 χ^2 /NDF: 4324658.8/30

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

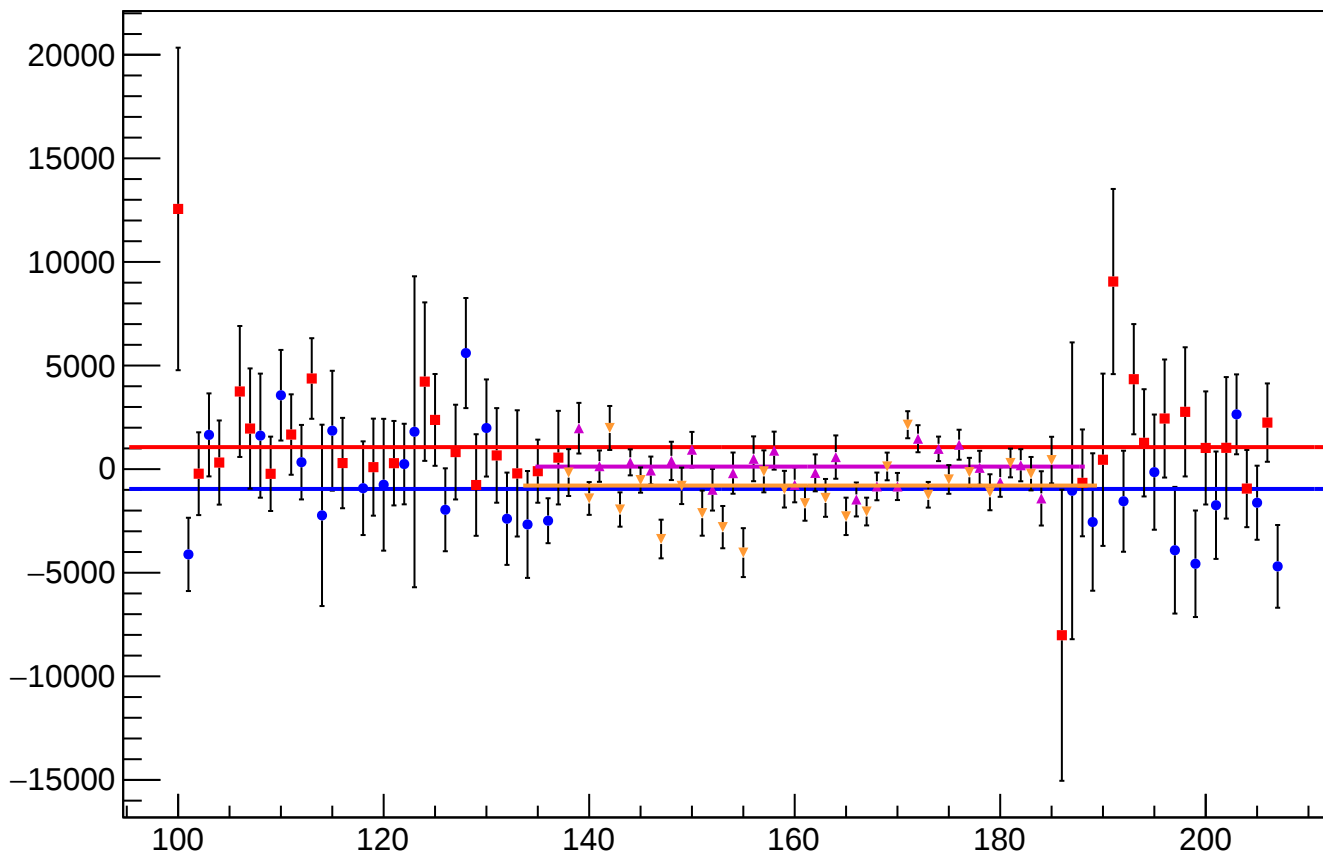
Right: 106.544 $\pm$ 0.015 χ^2 /NDF: 7775739.7/57

In: 85.553 $\pm$ 0.011 χ^2 /NDF: 5108041.6/49

Out: 85.510 $\pm$ 0.011 χ^2 /NDF: 6495375.9/55

All: 85.531 $\pm$ 0.008 χ^2 /NDF: 11603424.9/105

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -956.279 ± 431.476 $\chi^2/\text{NDF}: 33.3/26$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1062.708 ± 432.642 $\chi^2/\text{NDF}: 18.9/30$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

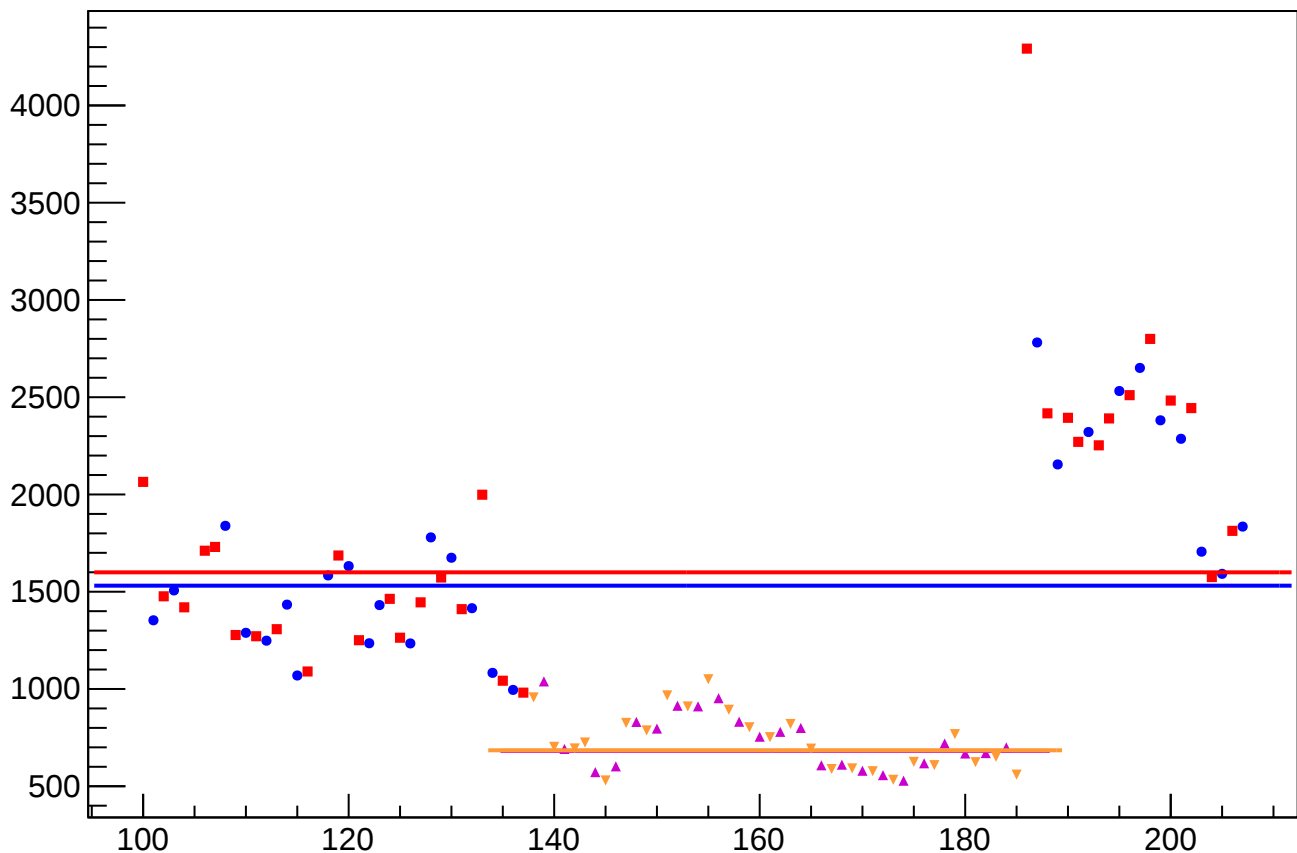
Right: 50.490 ± 305.511 $\chi^2/\text{NDF}: 63.1/57$

In: -17.133 ± 155.087 $\chi^2/\text{NDF}: 64.6/49$

Out: -562.983 ± 152.254 $\chi^2/\text{NDF}: 101.6/55$

All: -295.089 ± 108.647 $\chi^2/\text{NDF}: 172.6/105$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1531.111 $\pm$ 0.305 χ^2 /NDF: 2163158.8/26

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1599.705 $\pm$ 0.306 χ^2 /NDF: 2677077.9/30

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF: 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

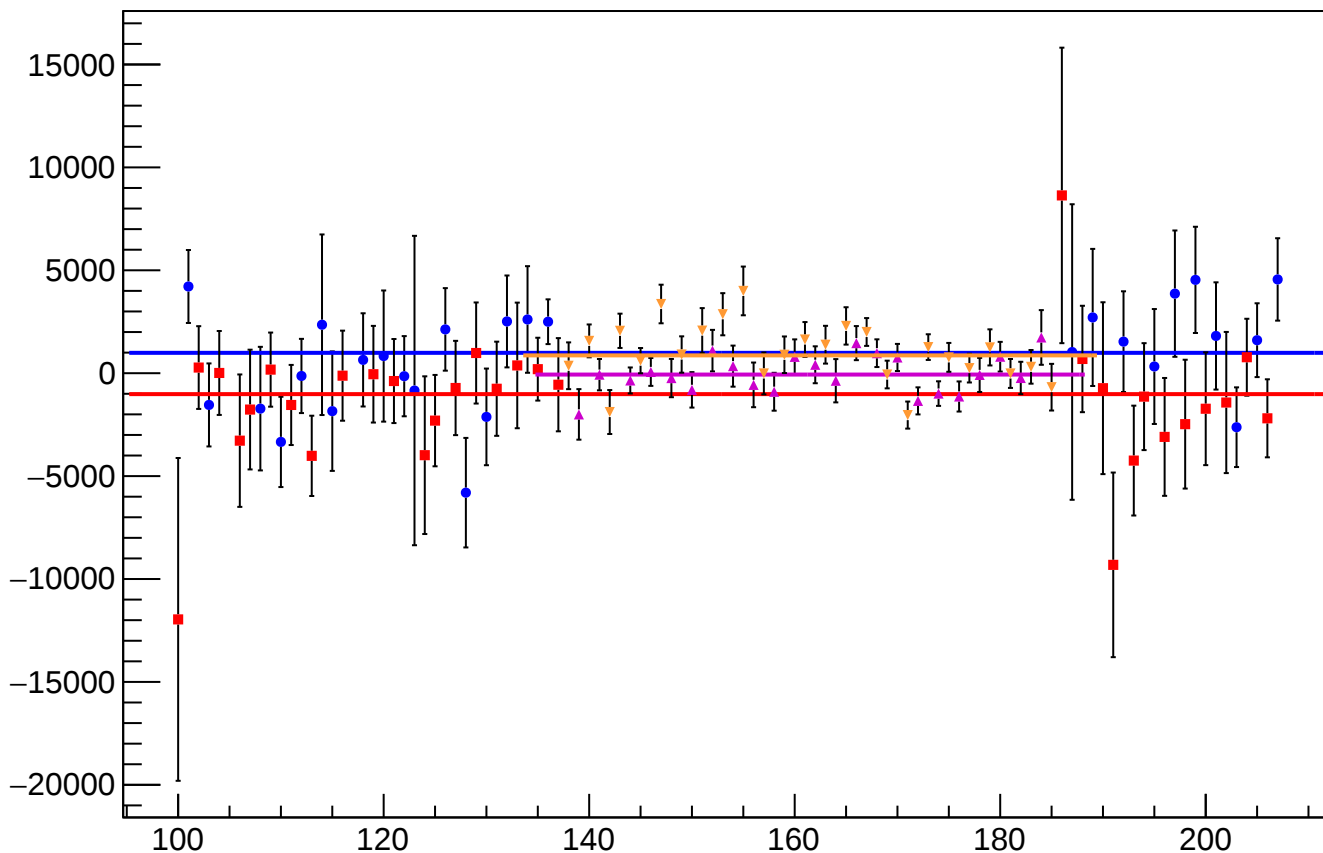
Right: 1565.315 $\pm$ 0.216 χ^2 /NDF: 4865442.1/57

In: 791.448 $\pm$ 0.110 χ^2 /NDF: 10032153.2/49

Out: 798.093 $\pm$ 0.108 χ^2 /NDF: 11793694.2/55

All: 794.832 $\pm$ 0.077 χ^2 /NDF: 21827717.4/100

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 989.785 $\pm$ 432.809 χ^2 /NDF: 32.9/26

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1016.421 $\pm$ 434.141 χ^2 /NDF: 18.3/30

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

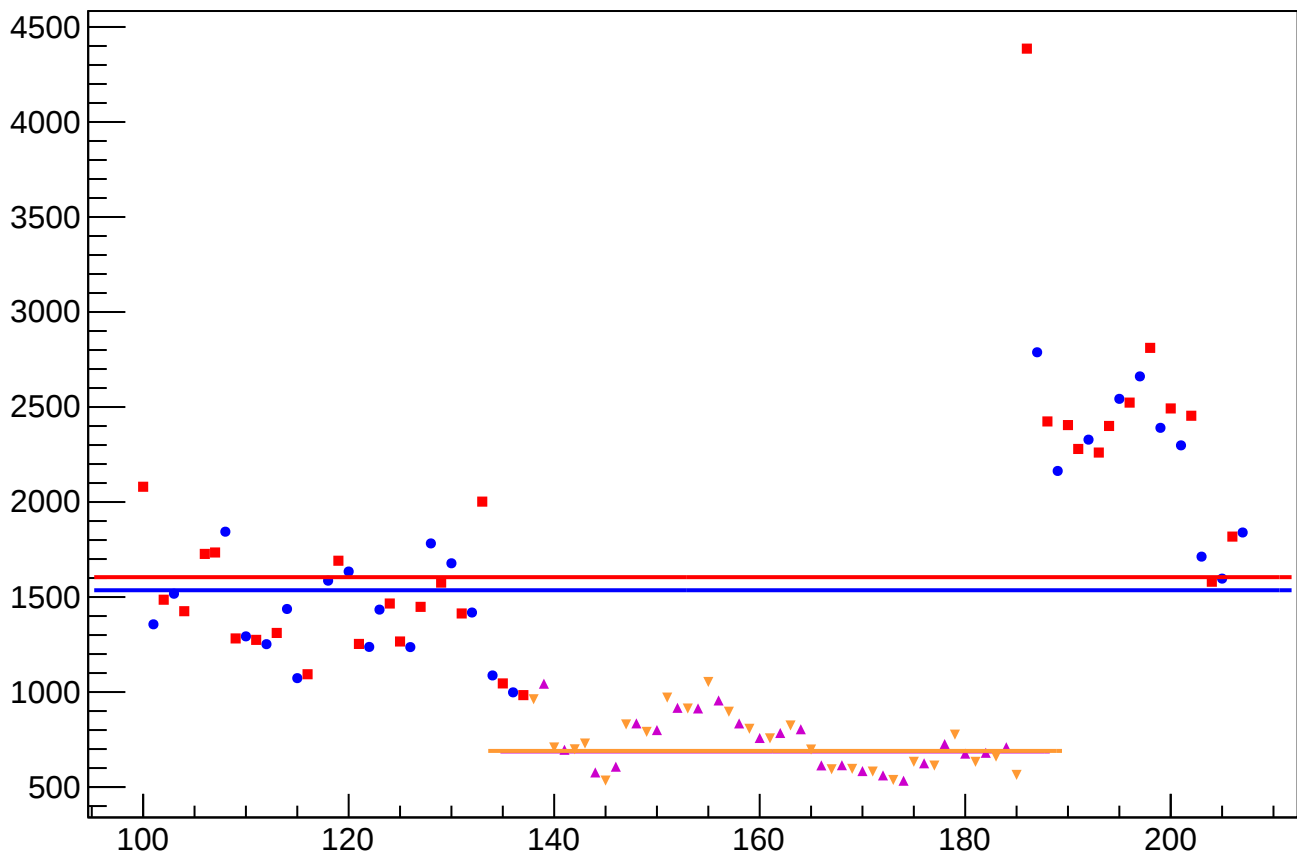
Right: -10.238 $\pm$ 306.512 χ^2 /NDF: 61.8/57

In: 71.574 $\pm$ 156.197 χ^2 /NDF:64.5/49

Out: 630.857 $\pm$ 153.325 χ^2 /NDF:97.6/55

All: 356.406 $\pm$ 109.418 χ^2 /NDF: 168.5/105

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1535.726+/-0.306 χ^2/NDF : 2167400.7/26

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1604.596+/-0.307 χ^2/NDF : 2689664.2/30

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

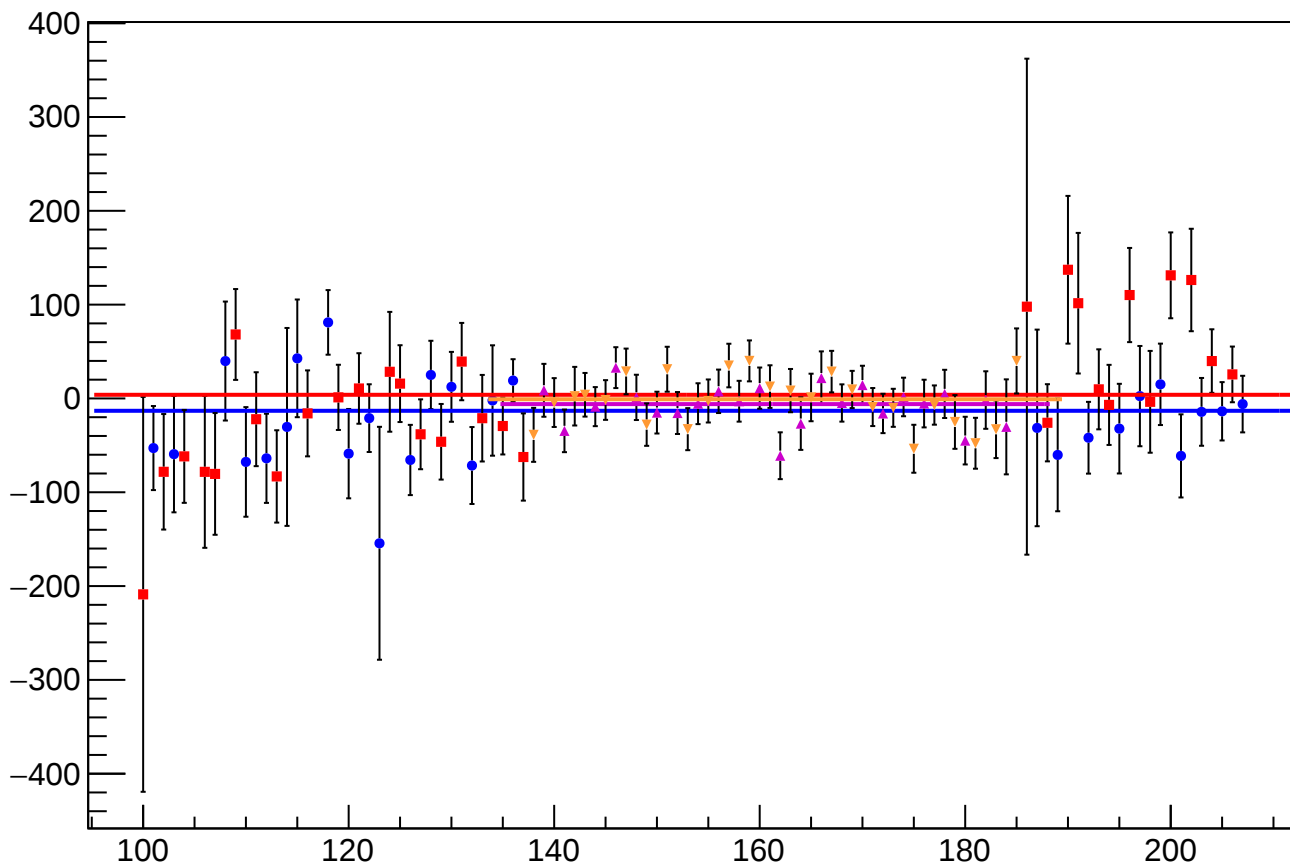
Right: 1570.055+/-0.217 χ^2/NDF : 4882307.8/57

In: 797.729+/-0.110 χ^2/NDF : 9952825.1/49

Out: 804.221+/-0.108 χ^2/NDF : 11714108.7/55

All: 801.035+/-0.077 χ^2/NDF : 21668693.5/10

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.166+/-8.169 χ^2/NDF : 25.3/26

Left Out: -0.861+/-4.760 χ^2/NDF : 27.9/24

Right Out: 3.886+/-8.242 χ^2/NDF : 44.2/30

Left In: -6.042+/-4.925 χ^2/NDF : 16.9/22

Left: -3.363+/-3.423 χ^2/NDF : 45.4/47

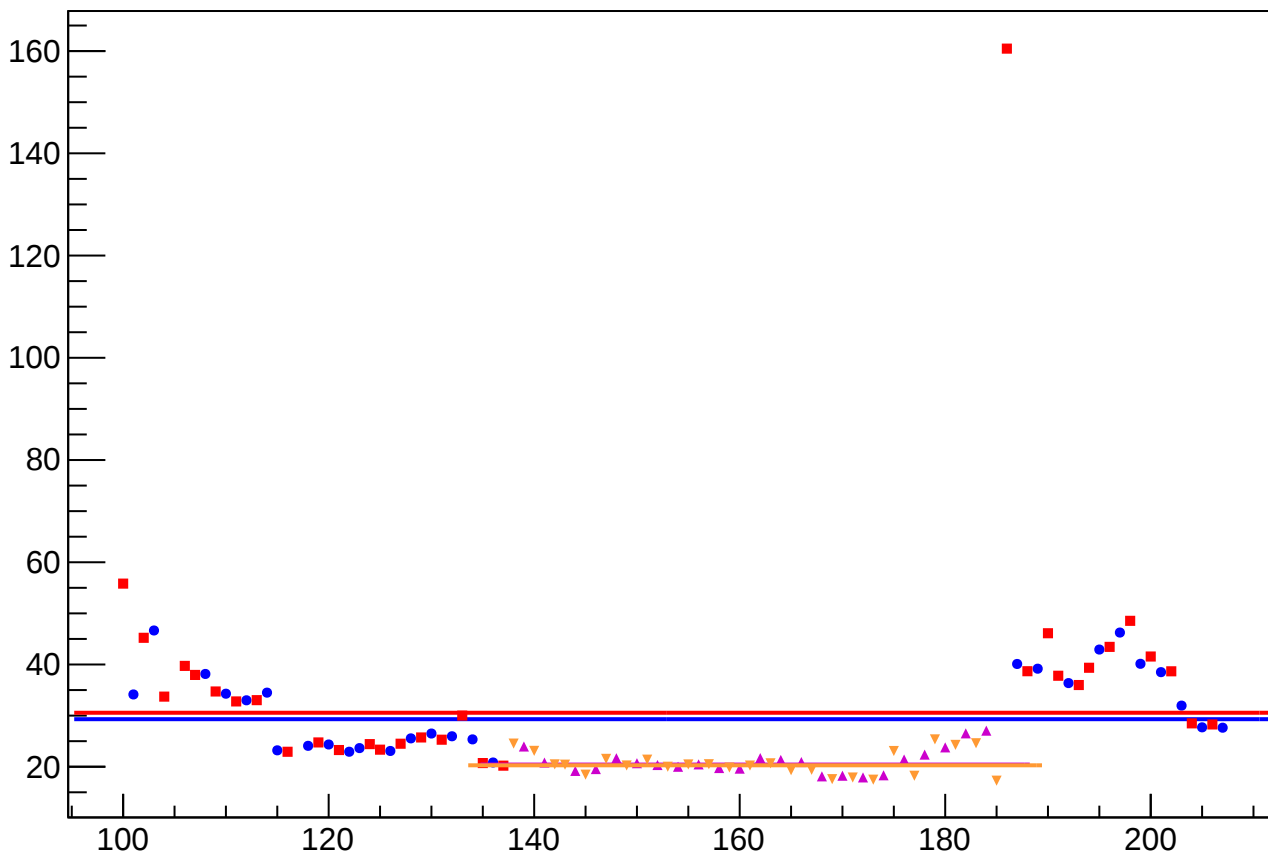
Right: -4.715+/-5.802 χ^2/NDF : 71.7/57

In: -7.941+/-4.218 χ^2/NDF : 42.8/49

Out: 0.326+/-4.122 χ^2/NDF : 72.4/55

All: -3.712+/-2.948 χ^2/NDF : 117.2/105

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.300+/-0.006 χ^2/NDF : 1530648.6/26

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.559+/-0.006 χ^2/NDF : 2223531.7/30

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

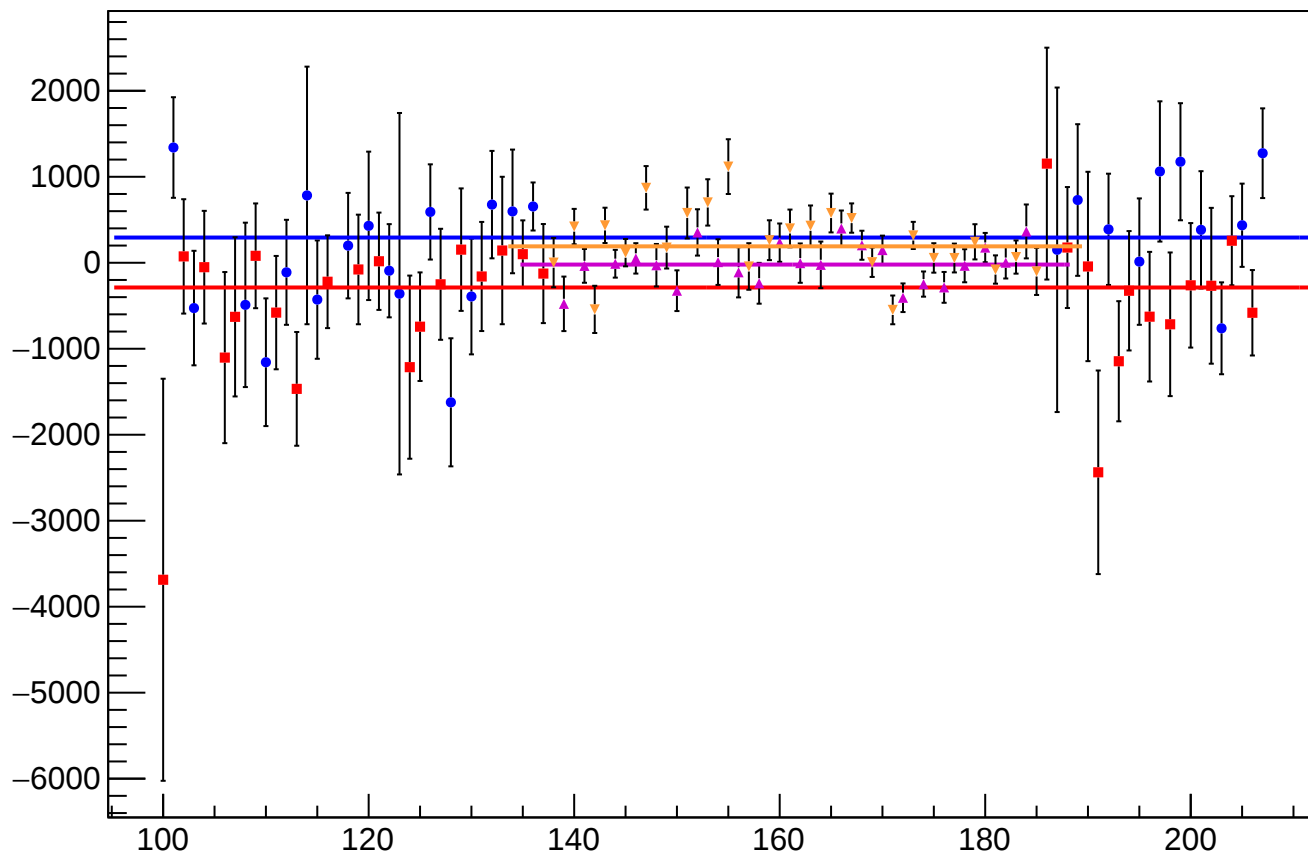
Right: 29.924+/-0.004 χ^2/NDF : 3777737.8/57

In: 22.790+/-0.003 χ^2/NDF : 3585803.2/49

Out: 22.851+/-0.003 χ^2/NDF : 4963822.6/55

All: 22.821+/-0.002 χ^2/NDF : 8549837.4/105

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 293.378 ± 120.742 χ^2/NDF : 32.2/26

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -287.571 ± 122.479 χ^2/NDF : 18.9/30

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

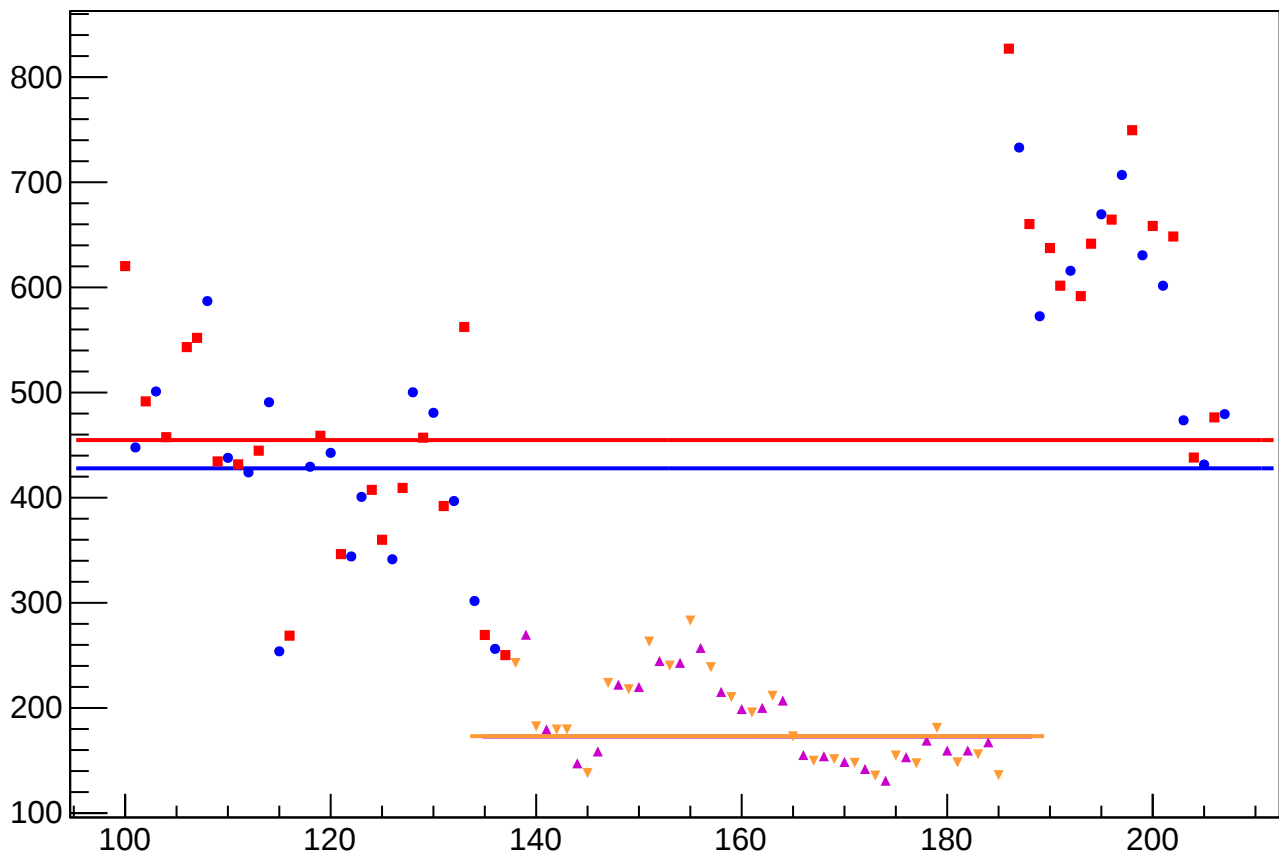
Right: 7.051 ± 85.985 χ^2/NDF : 62.5/57

In: 13.355 ± 39.913 χ^2/NDF : 66.0/49

Out: 141.991 ± 39.147 χ^2/NDF : 100.4/55

All: 78.920 ± 27.948 χ^2/NDF : 171.7/105

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 427.929+/-0.085 χ^2/NDF : 2230440.9/26

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 454.795+/-0.087 χ^2/NDF : 2466125.9/30

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

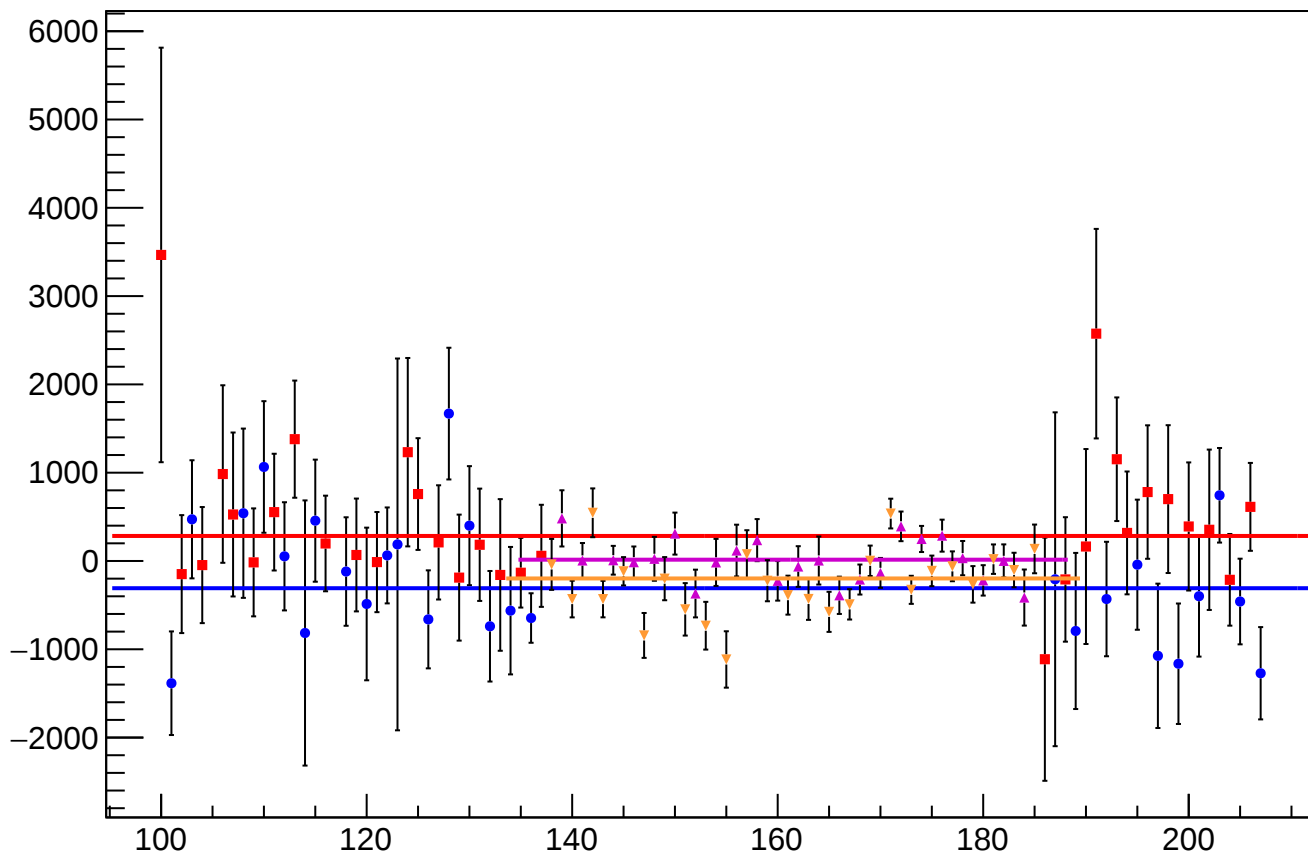
Right: 441.170+/-0.061 χ^2/NDF : 4745368.4/57

In: 200.704+/-0.028 χ^2/NDF :11554634.1/49

Out: 201.976+/-0.028 χ^2/NDF :13518668.1/55

All: 201.352+/-0.020 χ^2/NDF : 25074337.9/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -308.355 ± 121.065 χ^2/NDF : 32.1/26

Left Out: -197.918 ± 41.638 χ^2/NDF : 64.3/24

Right Out: 283.434 ± 122.829 χ^2/NDF : 18.8/30

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

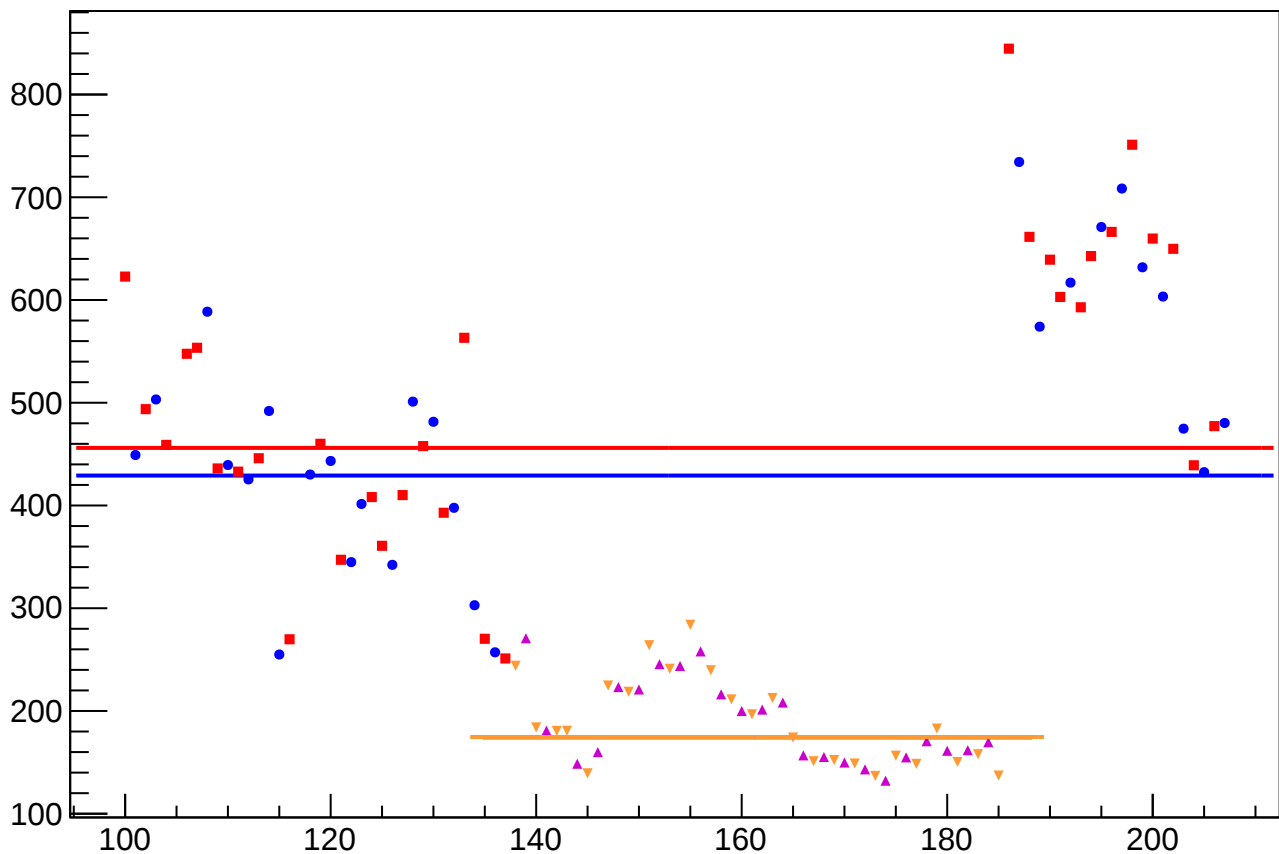
Right: -16.741 ± 86.223 χ^2/NDF : 62.7/57

In: -21.012 ± 40.209 χ^2/NDF : 66.2/49

Out: -148.304 ± 39.434 χ^2/NDF : 96.9/55

All: -85.897 ± 28.154 χ^2/NDF : 168.1/105

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 429.134 $\pm$ 0.086 χ^2/NDF : 2223940.7/26

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 456.054 $\pm$ 0.087 χ^2/NDF : 2469138.3/30

Left In: 174.288 $\pm$ 0.030 χ^2/NDF :1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2/NDF : 2876851.9/47

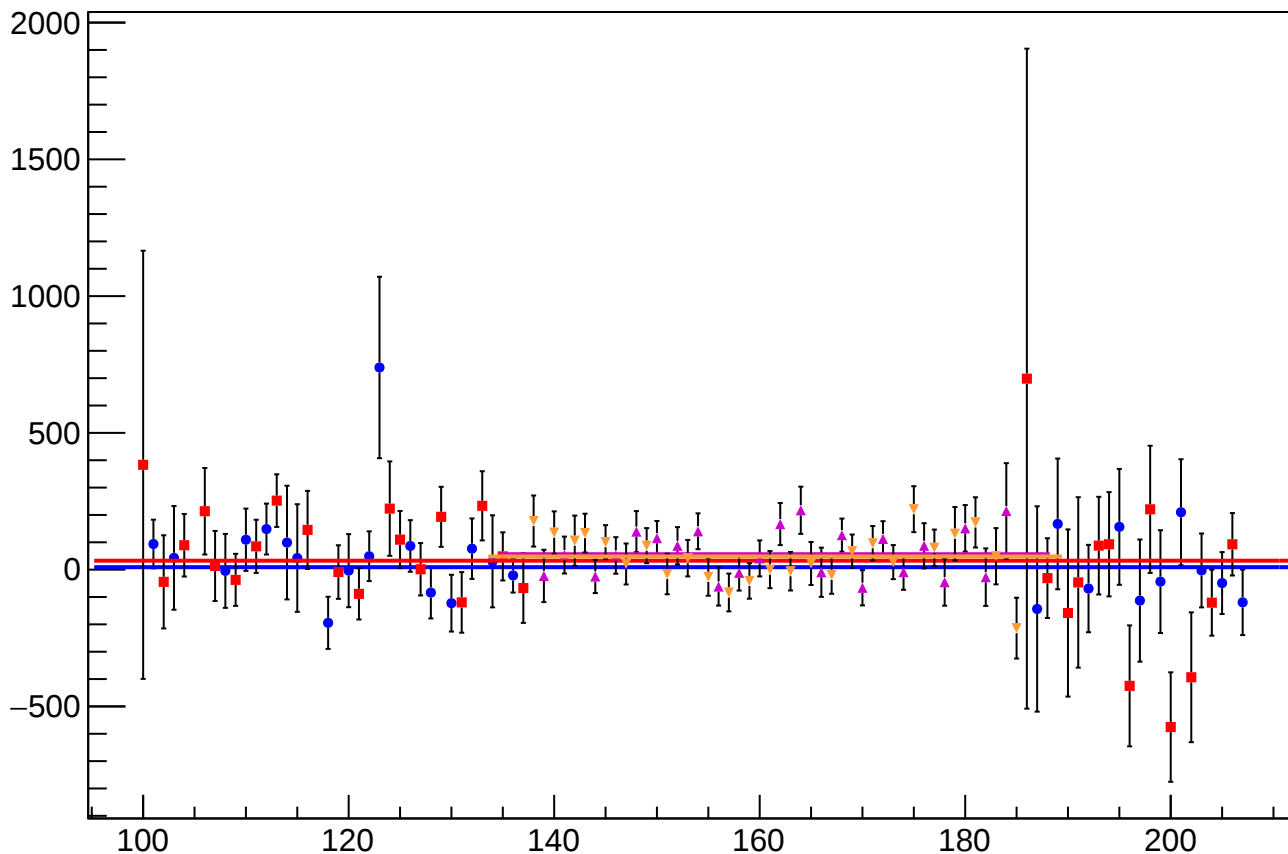
Right: 442.399 $\pm$ 0.061 χ^2/NDF : 4741809.3/57

In: 202.400 $\pm$ 0.028 χ^2/NDF :11453433.4/49

Out: 203.653 $\pm$ 0.028 χ^2/NDF :13416819.7/55

All: 203.039 $\pm$ 0.020 χ^2/NDF : 24871241.8/10

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 9.030 ± 23.564 χ^2/NDF : 21.9/26

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: 32.720 ± 23.490 χ^2/NDF : 40.0/30

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

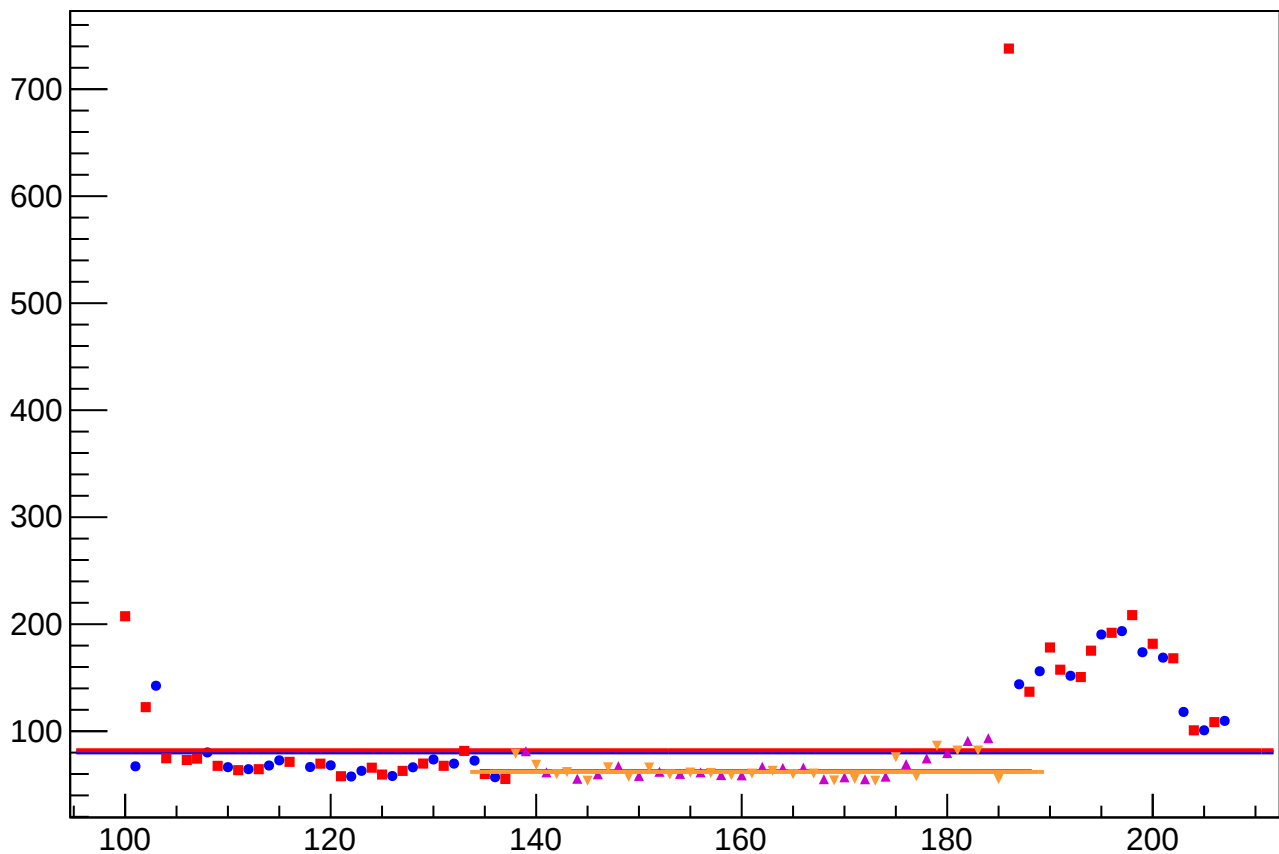
Right: 20.912 ± 16.636 χ^2/NDF : 62.4/57

In: 42.507 ± 12.762 χ^2/NDF : 52.2/49

Out: 43.904 ± 12.410 χ^2/NDF : 69.6/55

All: 43.225 ± 8.897 χ^2/NDF : 121.8/105

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 80.207 $\pm$ 0.017 χ^2 /NDF: 3973891.8/26

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 82.200 $\pm$ 0.017 χ^2 /NDF: 4974287.8/30

Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47

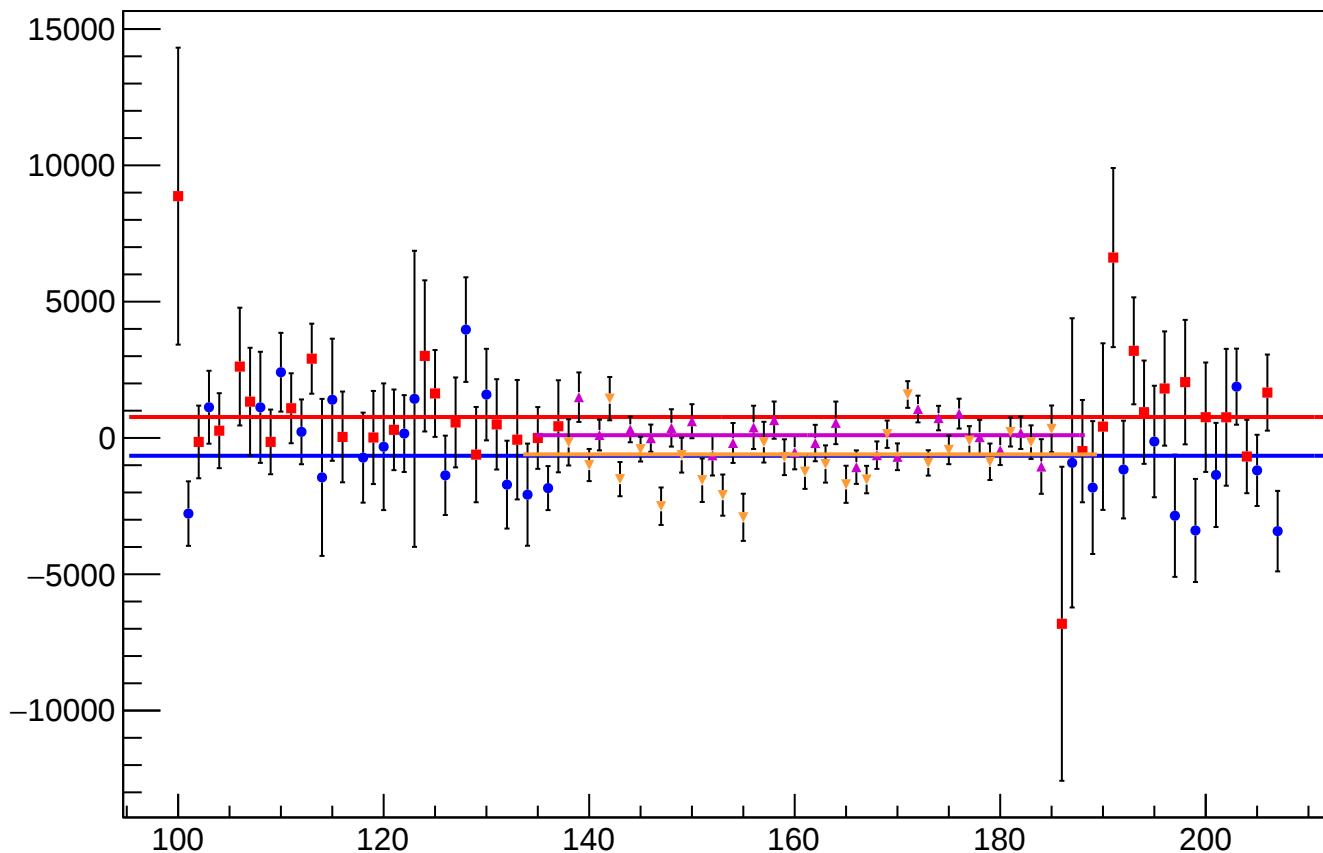
Right: 81.207 $\pm$ 0.012 χ^2 /NDF: 8955360.9/57

In: 67.770 $\pm$ 0.009 χ^2 /NDF: 5337810.2/49

Out: 67.599 $\pm$ 0.009 χ^2 /NDF: 6651166.5/55

All: 67.682 $\pm$ 0.006 χ^2 /NDF: 11989160.8/105

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -653.850+/-308.939 χ^2/NDF : 33.8/26

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 768.033+/-307.945 χ^2/NDF : 18.8/30

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

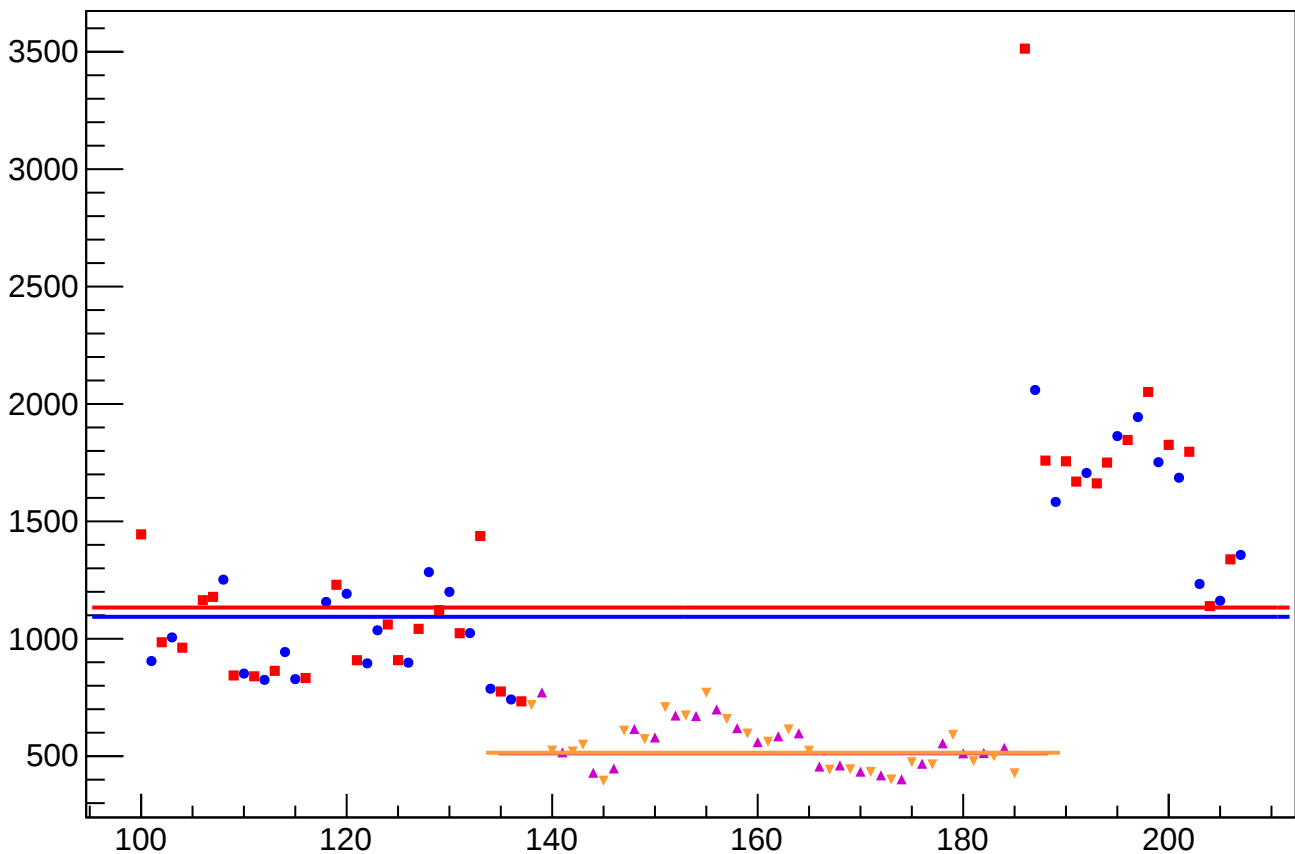
Right: 59.384+/-218.101 χ^2/NDF : 63.2/57

In: -5.179+/-115.655 χ^2/NDF : 64.4/49

Out: -415.382+/-113.518 χ^2/NDF : 101.3/55

All: -214.105+/-81.014 χ^2/NDF : 172.1/105

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1093.559+/-0.218 χ^2/NDF : 2285710.6/26

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1133.090+/-0.218 χ^2/NDF : 2932656.3/30

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

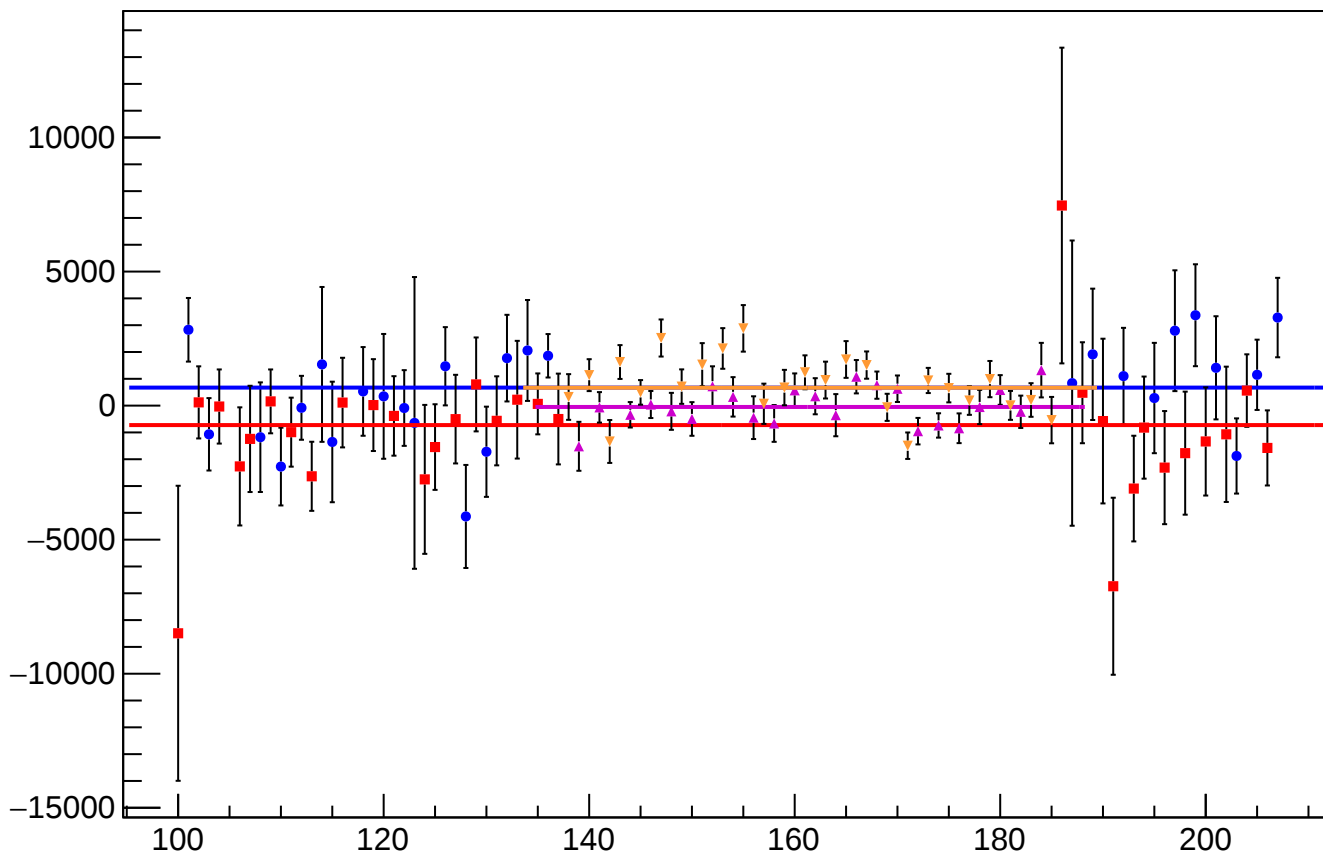
Right: 1113.388+/-0.154 χ^2/NDF : 5234792.4/57

In: 593.675+/-0.082 χ^2/NDF :9416751.3/49

Out: 598.783+/-0.080 χ^2/NDF :11095428.6/55

All: 596.276+/-0.057 χ^2/NDF : 20514166.7/10

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 672.184 ± 310.103 χ^2/NDF : 33.3/26

Left Out: 667.625 ± 123.146 χ^2/NDF : 61.5/24

Right Out: -726.016 ± 309.238 χ^2/NDF : 18.0/30

Left In: -50.079 ± 125.805 χ^2/NDF : 26.1/22

Left: 316.439 ± 88.002 χ^2/NDF : 104.2/47

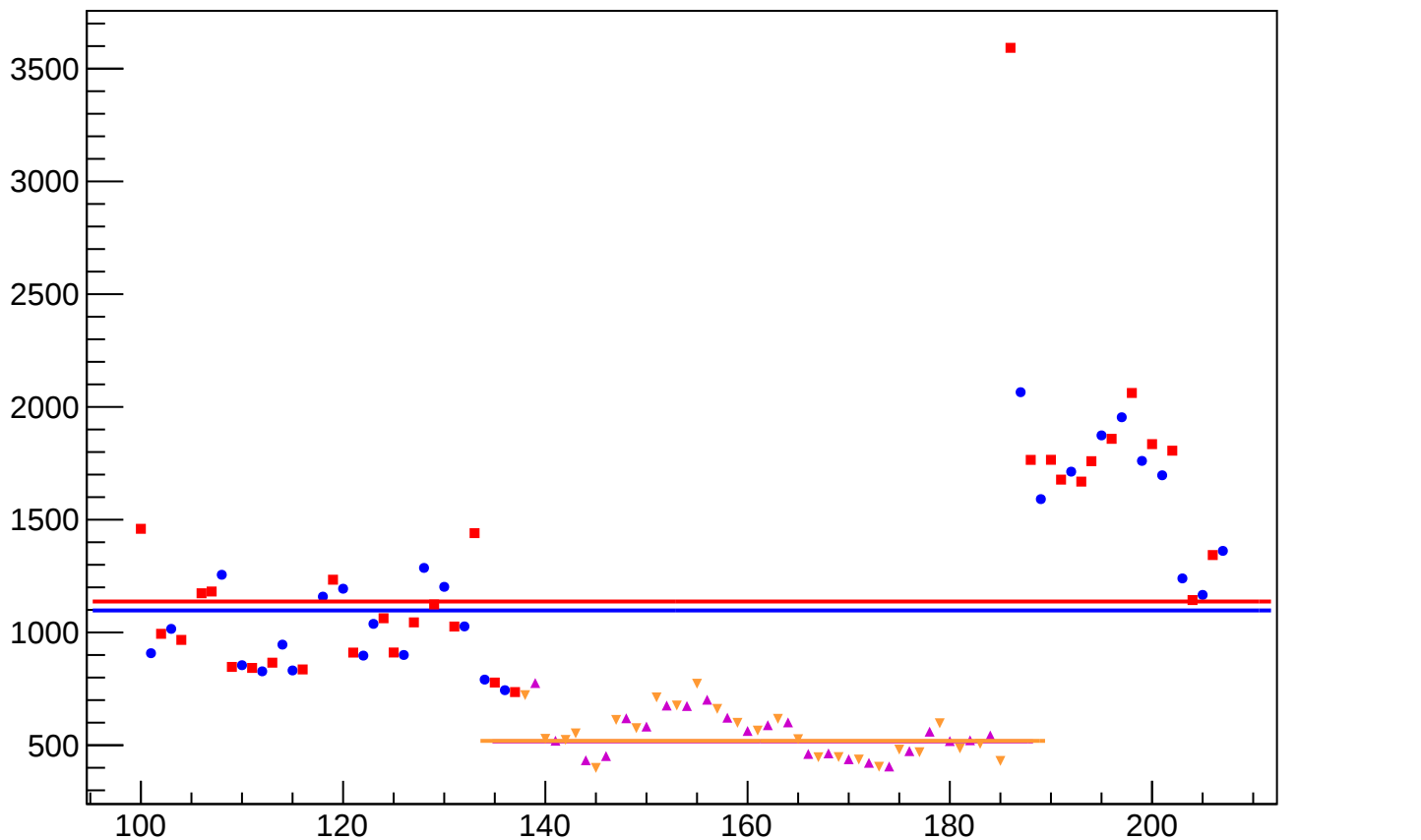
Right: -28.870 ± 218.970 χ^2/NDF : 61.5/57

In: 51.994 ± 116.577 χ^2/NDF : 64.0/49

Out: 476.869 ± 114.408 χ^2/NDF : 97.0/55

All: 268.421 ± 81.655 χ^2/NDF : 167.8/105

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1097.535+/-0.219 χ^2/NDF : 2292729.9/26

Left Out: 519.254+/-0.087 χ^2/NDF :1172411.1/24

Right Out: 1137.270+/-0.219 χ^2/NDF : 2947248.4/30

Left In: 516.792+/-0.089 χ^2/NDF :1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

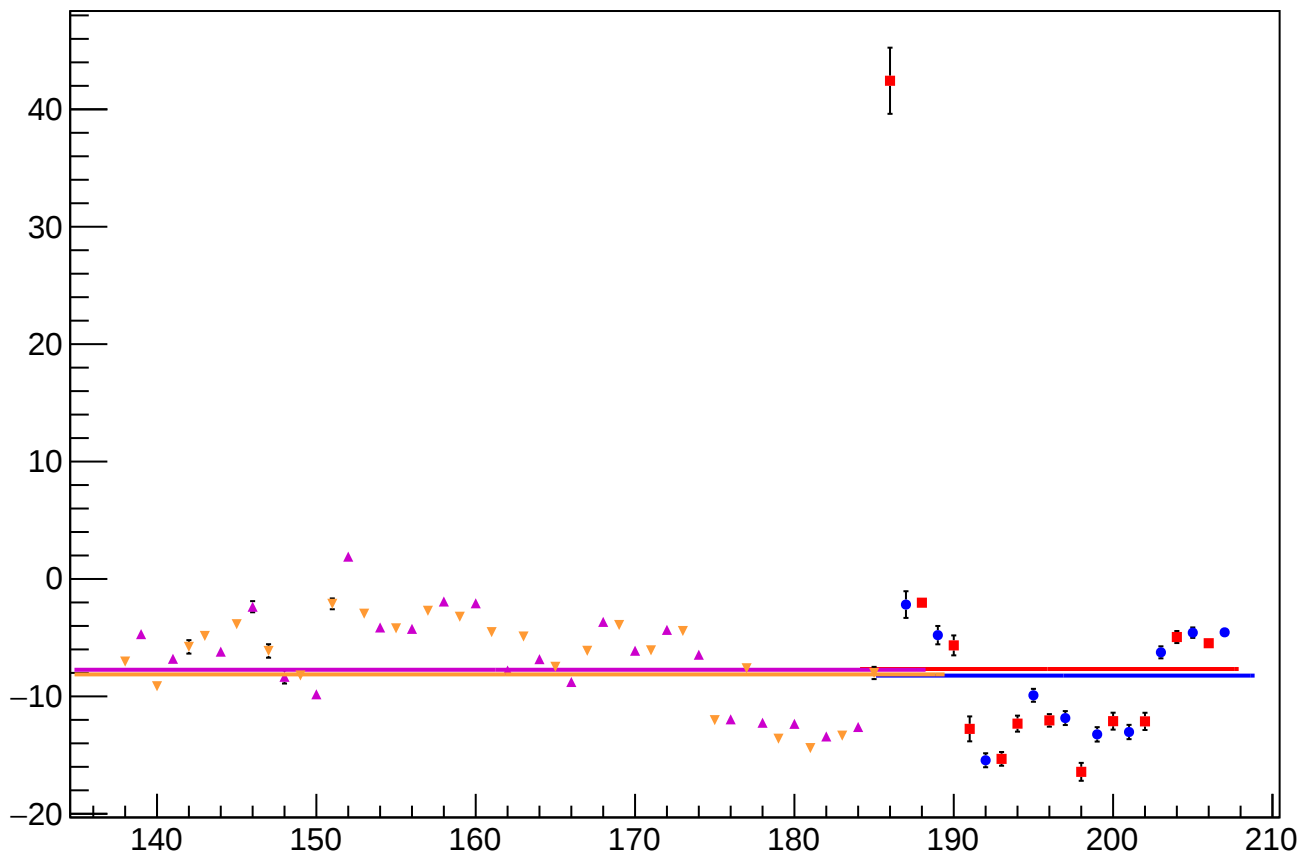
Right: 1117.458+/-0.155 χ^2/NDF : 5256442.2/57

In: 598.864+/-0.082 χ^2/NDF :9337147.8/49

Out: 603.845+/-0.081 χ^2/NDF :11014391.8/55

All: 601.401+/-0.058 χ^2/NDF : 20353399.5/100

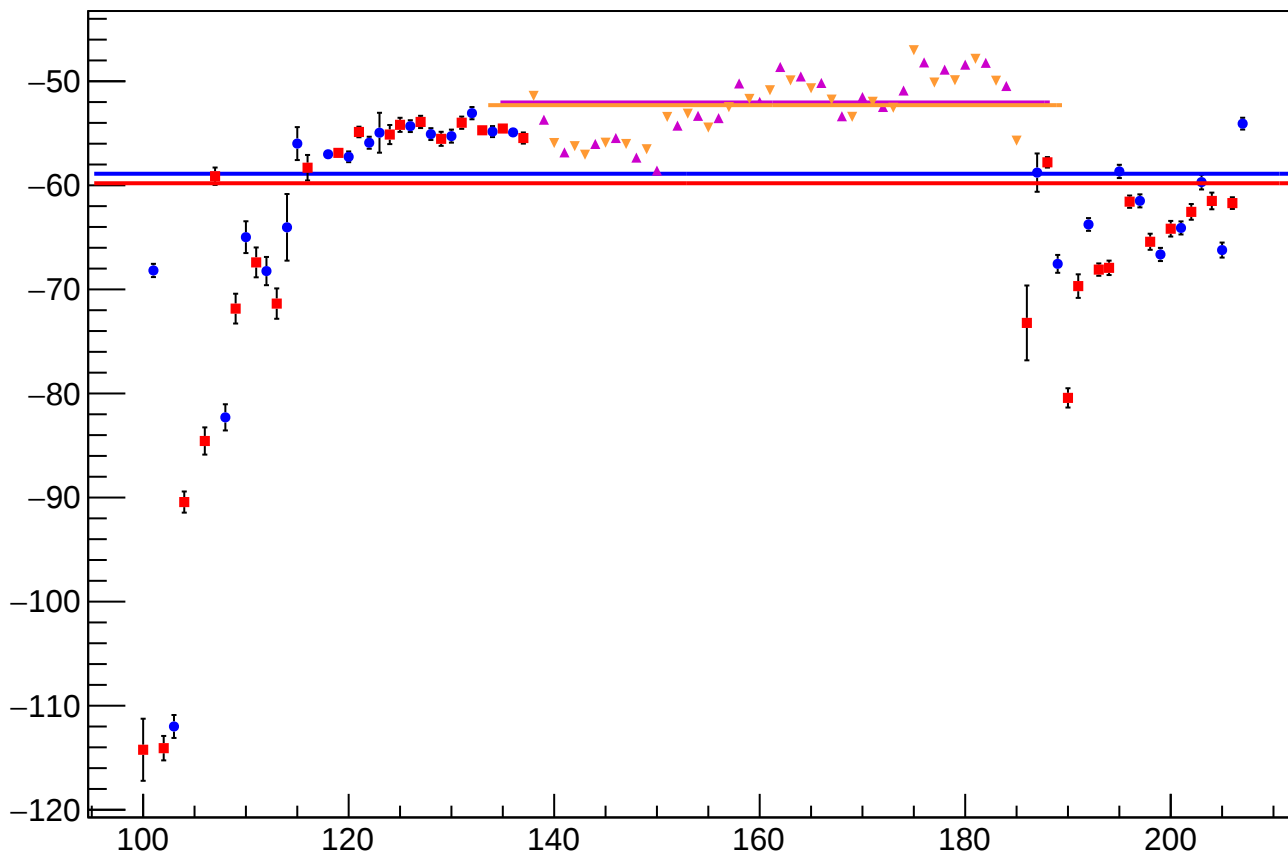
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.230 ± 0.175 $\chi^2/\text{NDF}: 546.9/9$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -7.668 ± 0.167 $\chi^2/\text{NDF}: 1180.3/11$
 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: -7.935 ± 0.121 $\chi^2/\text{NDF}: 1732.6/21$
 In: -7.799 ± 0.064 $\chi^2/\text{NDF}: 4272.9/32$
 Out: -8.063 ± 0.062 $\chi^2/\text{NDF}: 4822.3/36$
 All: -7.934 ± 0.045 $\chi^2/\text{NDF}: 9103.9/69$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.887 ± 0.119 χ^2/NDF : 4119.7/26

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -59.800 ± 0.117 χ^2/NDF : 5969.5/30

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

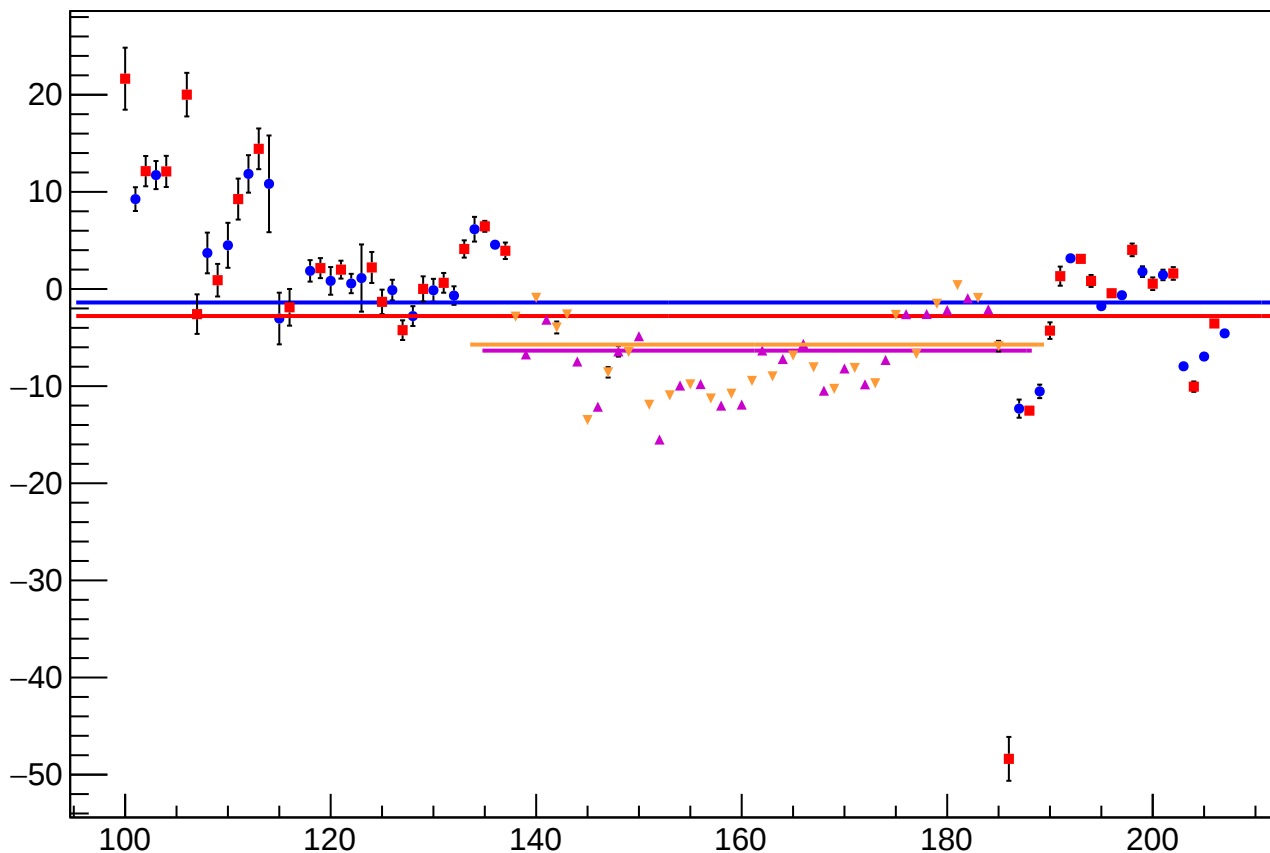
Right: -59.351 ± 0.084 χ^2/NDF : 10119.0/57

In: -53.314 ± 0.052 χ^2/NDF : 9976.6/49

Out: -53.648 ± 0.050 χ^2/NDF : 11972.0/55

All: -53.487 ± 0.036 χ^2/NDF : 21970.3/105

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.387 ± 0.137 $\chi^2/\text{NDF}: 1334.4/26$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -2.782 ± 0.130 $\chi^2/\text{NDF}: 3188.3/30$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

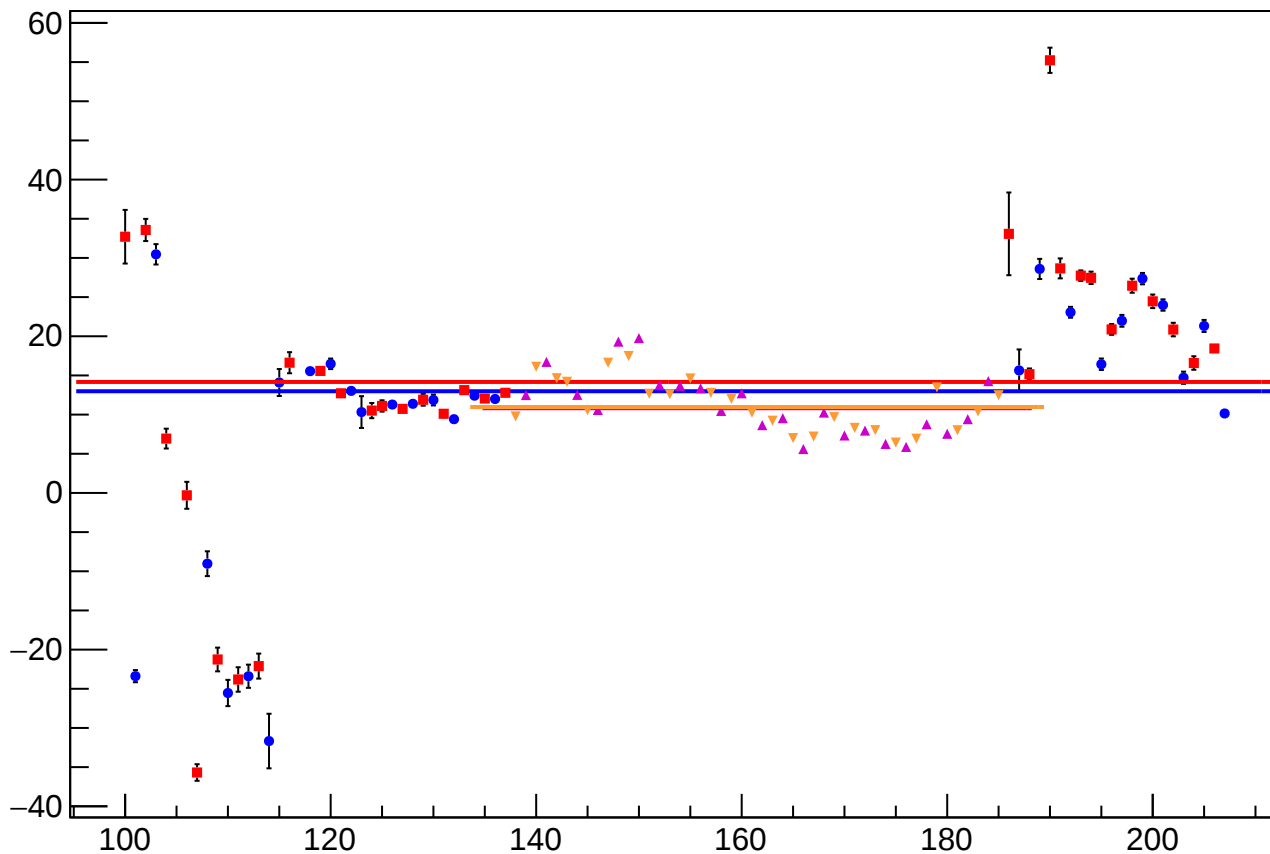
Right: -2.123 ± 0.094 $\chi^2/\text{NDF}: 4577.3/57$

In: -5.350 ± 0.061 $\chi^2/\text{NDF}: 5763.7/49$

Out: -5.094 ± 0.060 $\chi^2/\text{NDF}: 7575.5/55$

All: -5.219 ± 0.043 $\chi^2/\text{NDF}: 13348.2/105$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.982 ± 0.133 χ^2/NDF : 5276.6/26

Left Out: 10.967 ± 0.061 χ^2/NDF : 2637.7/24

Right Out: 14.170 ± 0.134 χ^2/NDF : 6399.3/30

Left In: 10.813 ± 0.063 χ^2/NDF : 3546.8/22

Left: 10.892 ± 0.044 χ^2/NDF : 6187.5/47

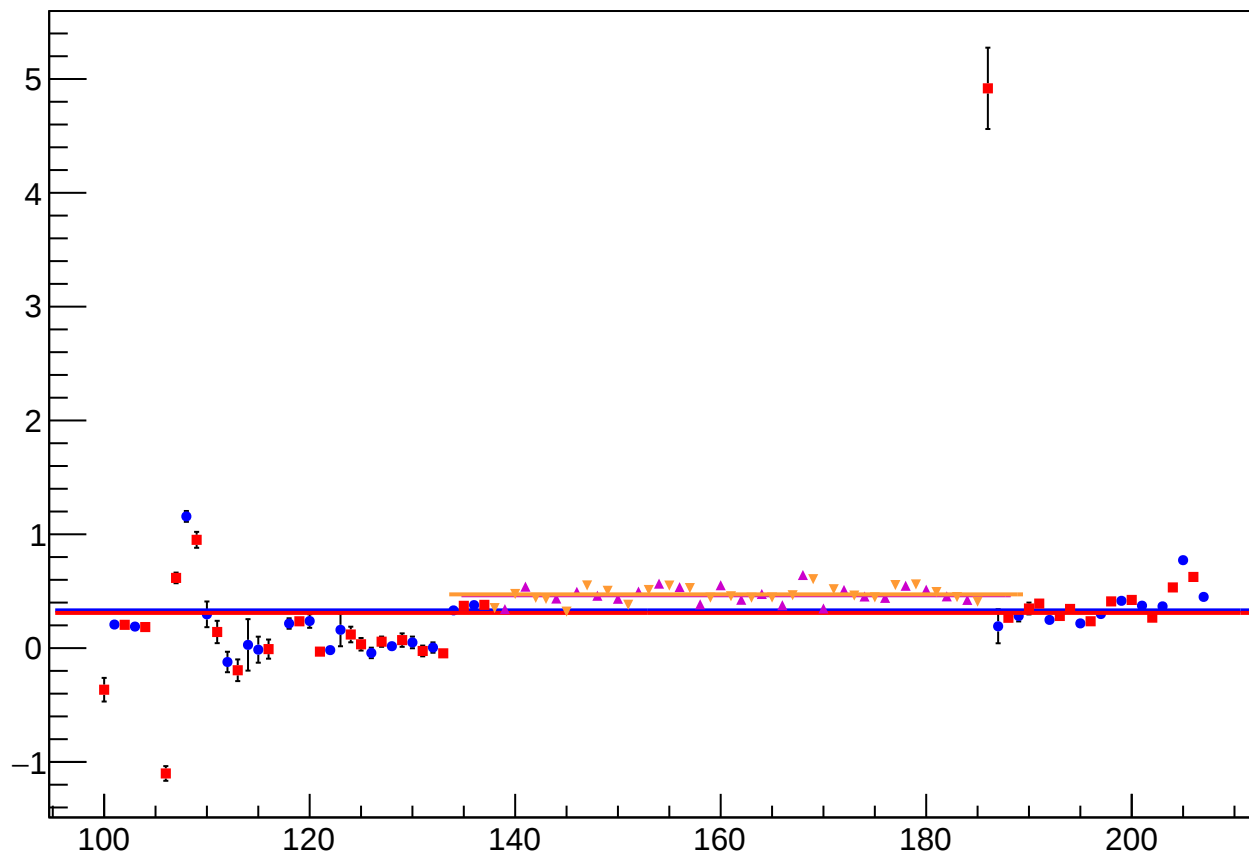
Right: 13.574 ± 0.094 χ^2/NDF : 11715.4/57

In: 11.210 ± 0.057 χ^2/NDF : 9039.5/49

Out: 11.524 ± 0.056 χ^2/NDF : 9510.2/55

All: 11.371 ± 0.040 χ^2/NDF : 18565.0/105

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.006 χ^2 /NDF: 912.1/26

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.309 $\pm$ 0.006 χ^2 /NDF: 1503.2/30

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF: 733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

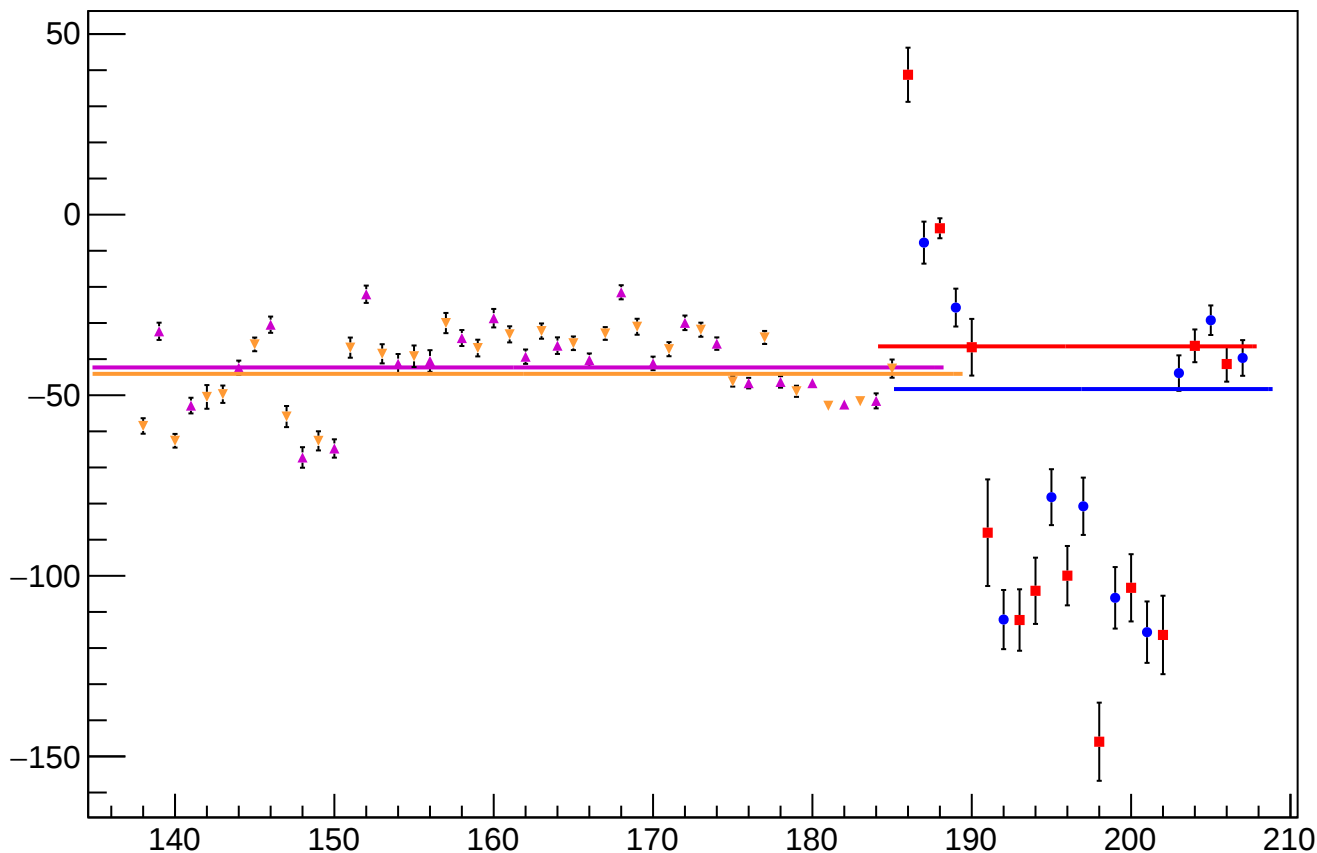
Right: 0.321 $\pm$ 0.004 χ^2 /NDF: 2422.6/57

In: 0.439 $\pm$ 0.003 χ^2 /NDF: 2073.1/49

Out: 0.442 $\pm$ 0.002 χ^2 /NDF: 2662.3/55

All: 0.441 $\pm$ 0.002 χ^2 /NDF: 4736.1/105

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



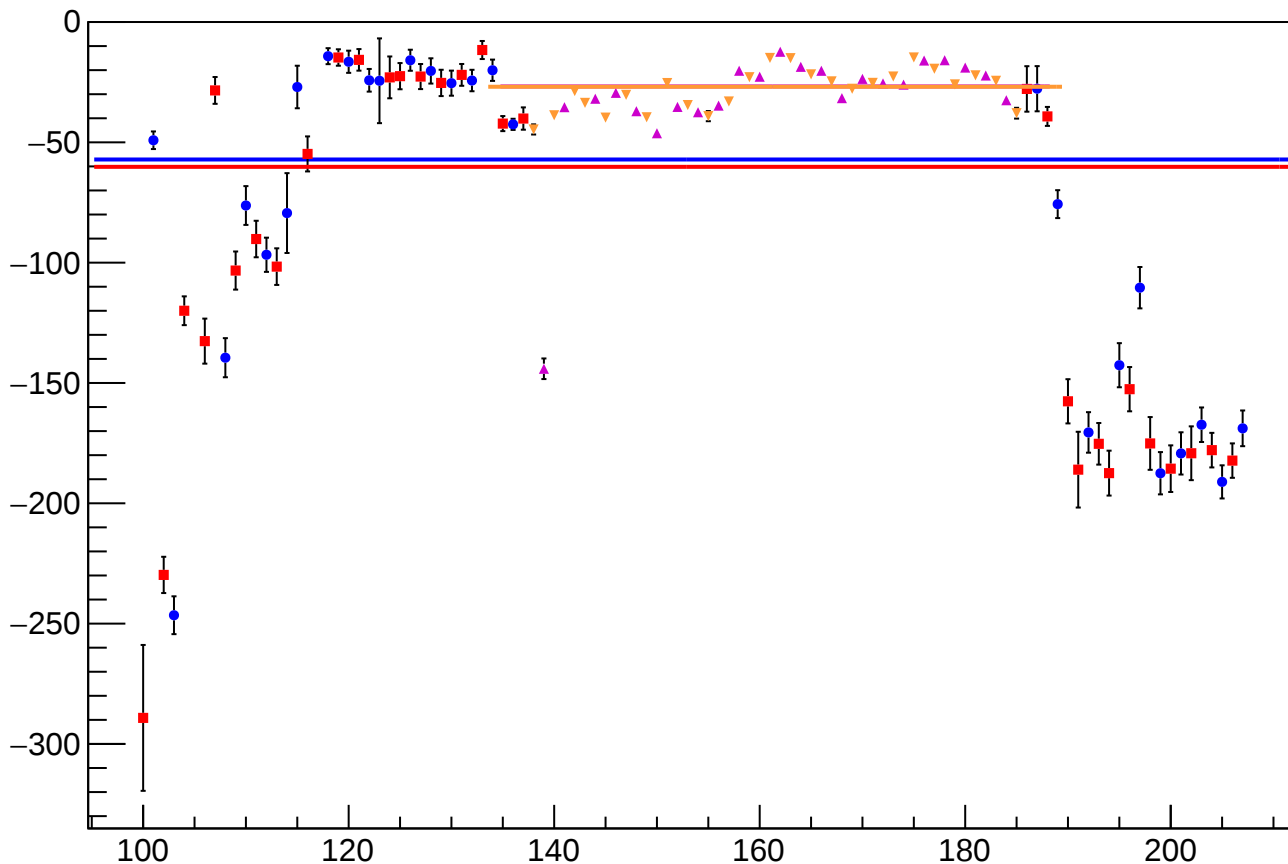
Right In: -48.290 ± 1.879 $\chi^2/\text{NDF}: 293.8/9$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -36.469 ± 1.744 $\chi^2/\text{NDF}: 655.0/11$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -41.938 ± 1.278 $\chi^2/\text{NDF}: 970.1/21$

In: -42.562 ± 0.390 $\chi^2/\text{NDF}: 944.1/32$
 Out: -43.717 ± 0.379 $\chi^2/\text{NDF}: 1305.7/36$

All: -43.157 ± 0.272 $\chi^2/\text{NDF}: 2254.3/69$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.128 $\pm$ 1.042 χ^2 /NDF: 2956.8/26

Left Out: -26.902 $\pm$ 0.316 χ^2 /NDF: 631.0/24

Right Out: -60.183 $\pm$ 1.069 χ^2 /NDF: 3187.4/30

Left In: -26.774 $\pm$ 0.326 χ^2 /NDF: 1394.5/22

Left: -26.840 $\pm$ 0.227 χ^2 /NDF: 2025.6/47

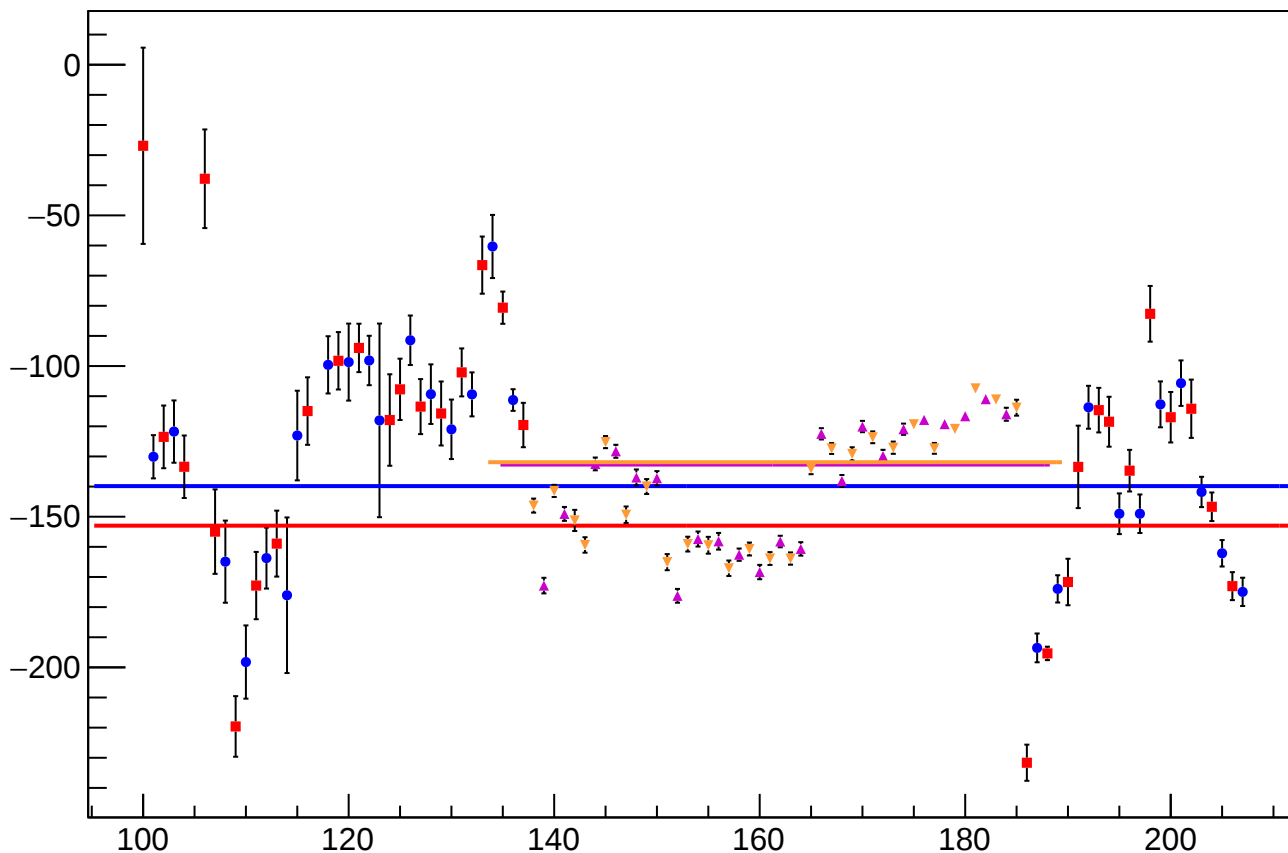
Right: -58.616 $\pm$ 0.746 χ^2 /NDF: 6148.4/57

In: -29.487 $\pm$ 0.311 χ^2 /NDF: 5124.8/49

Out: -29.580 $\pm$ 0.303 χ^2 /NDF: 4709.5/55

All: -29.535 $\pm$ 0.217 χ^2 /NDF: 9834.3/105

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -139.844 ± 1.336 χ^2/NDF : 596.2/26

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -152.972 ± 1.253 χ^2/NDF : 1311.1/30

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

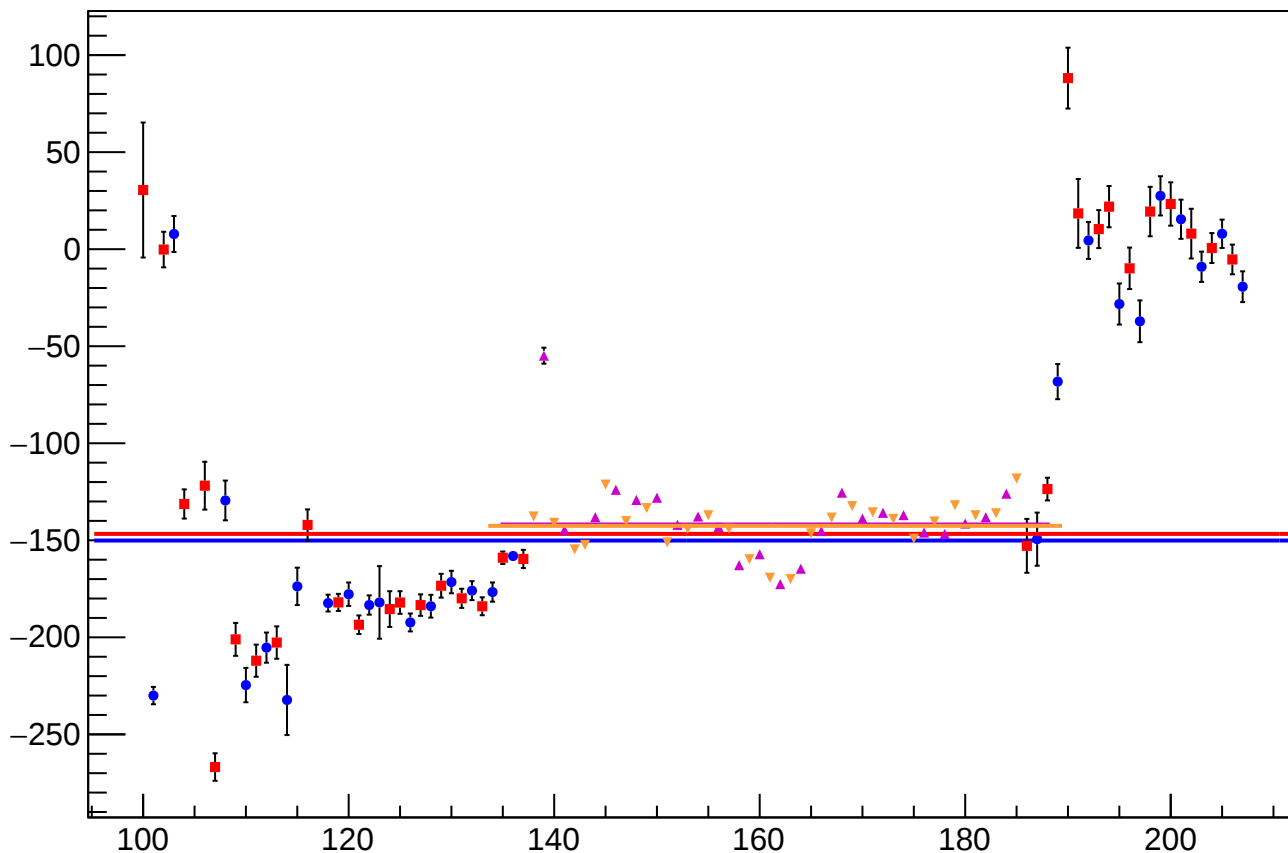
Right: -146.825 ± 0.914 χ^2/NDF : 1958.7/57

In: -133.277 ± 0.383 χ^2/NDF : 3102.8/49

Out: -133.785 ± 0.374 χ^2/NDF : 4007.7/55

All: -133.537 ± 0.267 χ^2/NDF : 7111.4/105

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -150.126 ± 1.172 χ^2/NDF : 3318.4/26

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -146.706 ± 1.226 χ^2/NDF : 3390.3/30

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

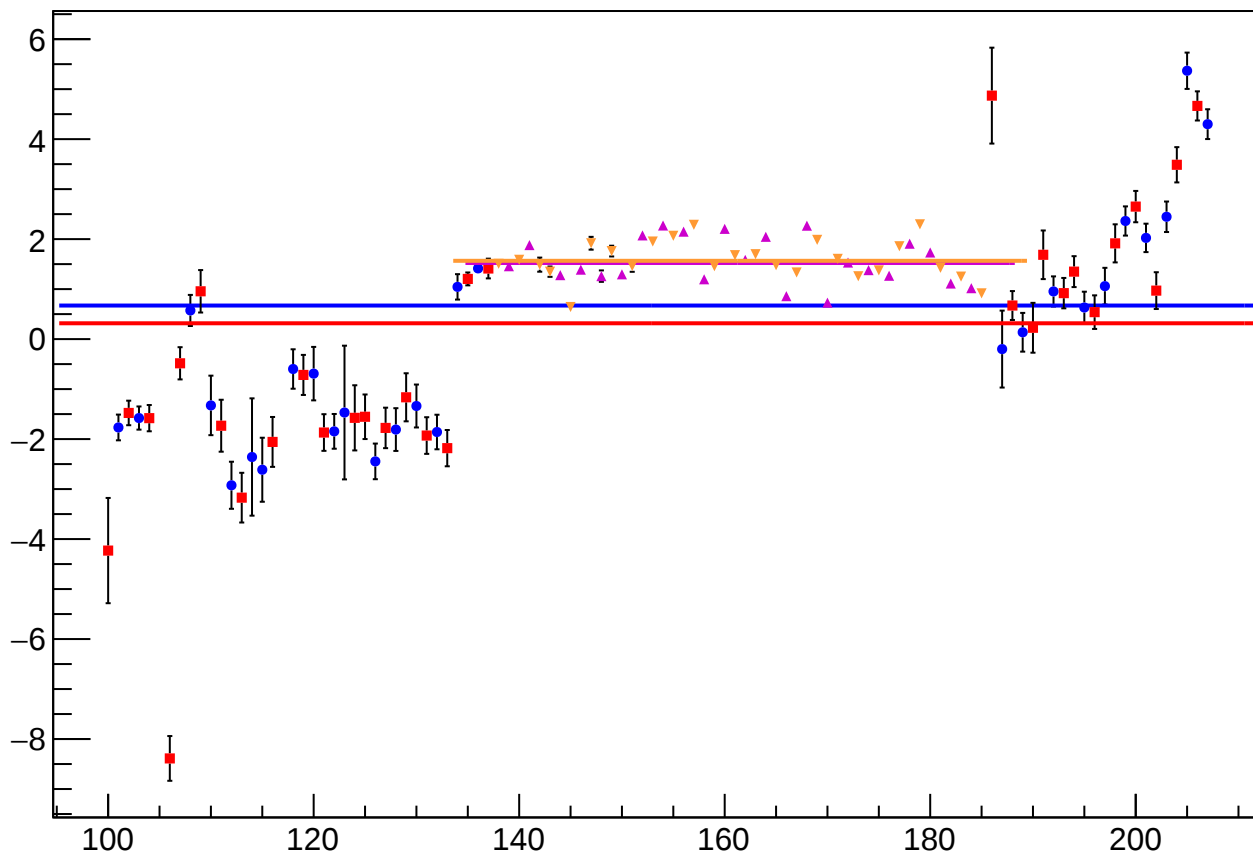
Right: -148.493 ± 0.847 χ^2/NDF : 6712.8/57

In: -142.583 ± 0.347 χ^2/NDF : 4908.1/49

Out: -142.883 ± 0.340 χ^2/NDF : 4548.5/55

All: -142.736 ± 0.243 χ^2/NDF : 9457.0/105

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.671 ± 0.057 χ^2/NDF : 1015.1/26

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.317 ± 0.059 χ^2/NDF : 1292.5/30

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

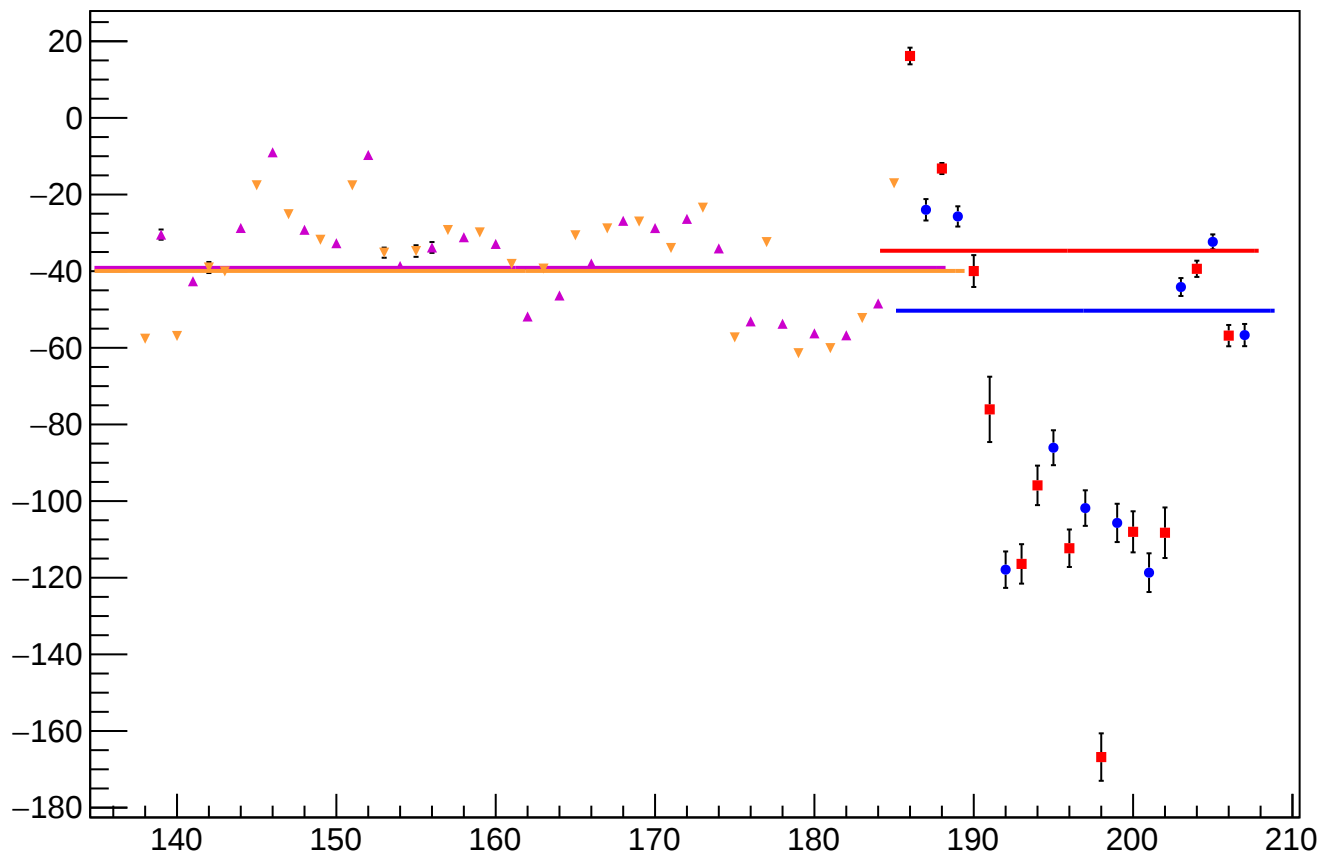
Right: 0.500 ± 0.041 χ^2/NDF : 2326.6/57

In: 1.456 ± 0.016 χ^2/NDF : 1962.1/49

Out: 1.477 ± 0.016 χ^2/NDF : 2258.7/55

All: 1.467 ± 0.011 χ^2/NDF : 4221.7/105

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -50.314 ± 0.974 $\chi^2/\text{NDF}: 965.2/9$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.669 ± 0.870 $\chi^2/\text{NDF}: 2275.6/11$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

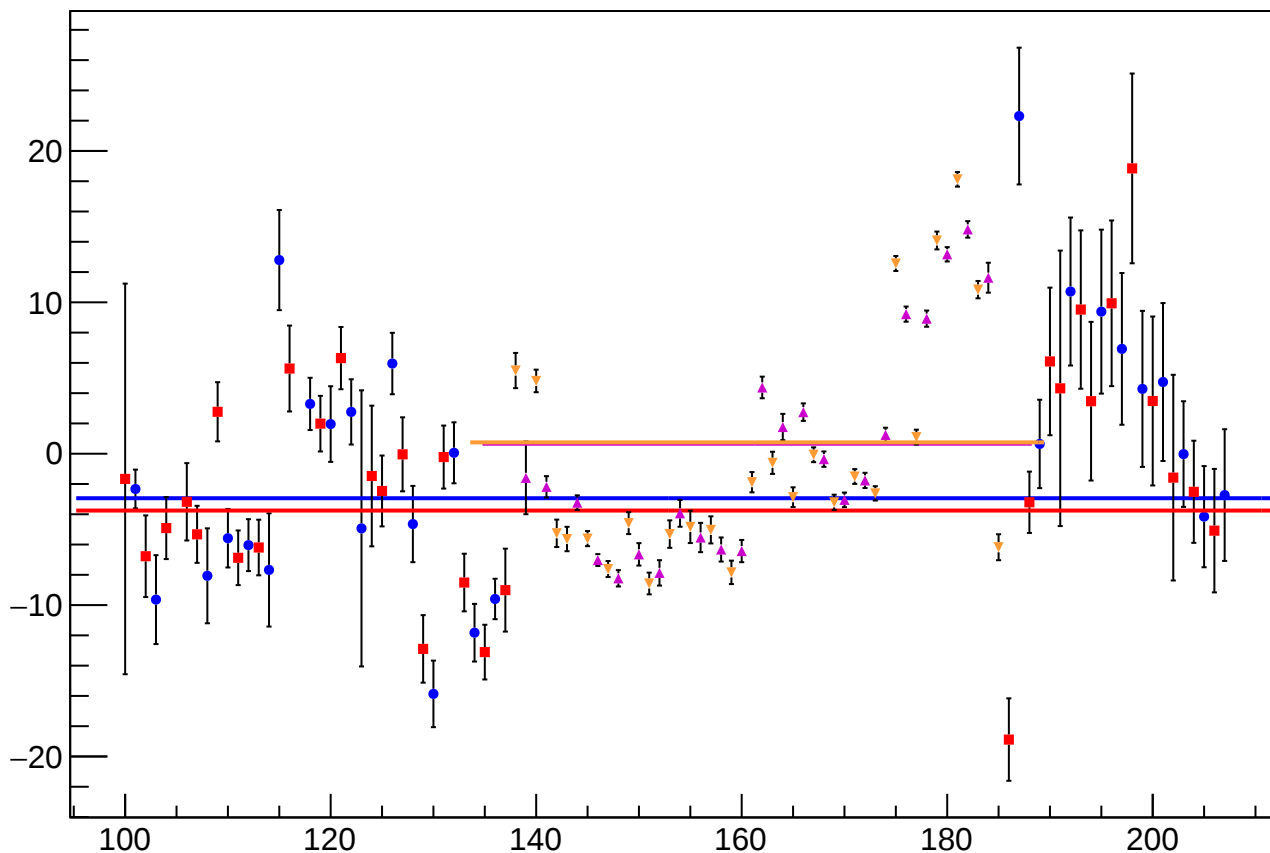
Right: -41.618 ± 0.649 $\chi^2/\text{NDF}: 3384.2/21$

In: -39.412 ± 0.153 $\chi^2/\text{NDF}: 9628.2/32$

Out: -39.777 ± 0.151 $\chi^2/\text{NDF}: 12117.6/36$

All: -39.597 ± 0.107 $\chi^2/\text{NDF}: 21748.7/69$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.940 ± 0.467 χ^2/NDF : 219.0/26

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.754 ± 0.464 χ^2/NDF : 187.6/30

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

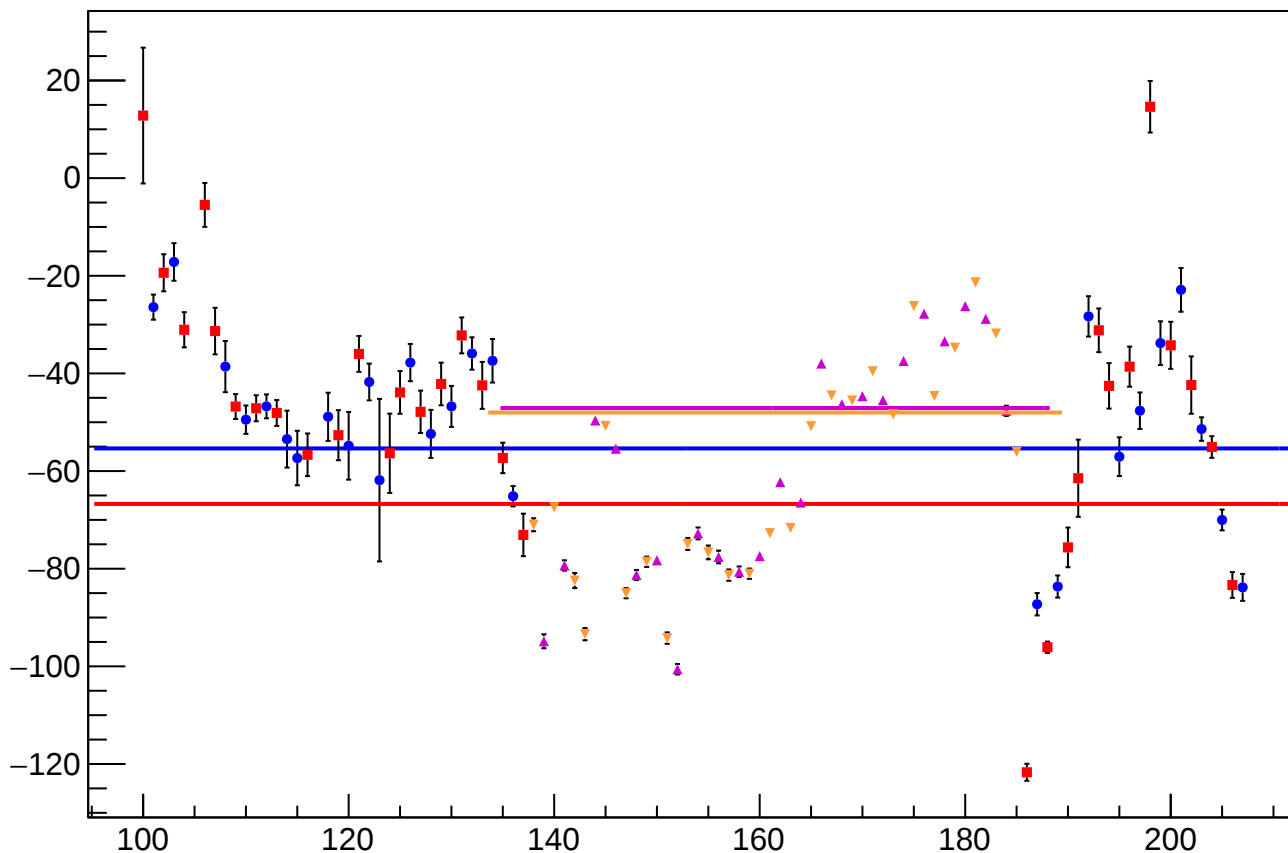
Right: -3.350 ± 0.329 χ^2/NDF : 408.1/57

In: 0.421 ± 0.120 χ^2/NDF : 3612.4/49

Out: 0.448 ± 0.120 χ^2/NDF : 4246.4/55

All: 0.435 ± 0.085 χ^2/NDF : 7858.8/105

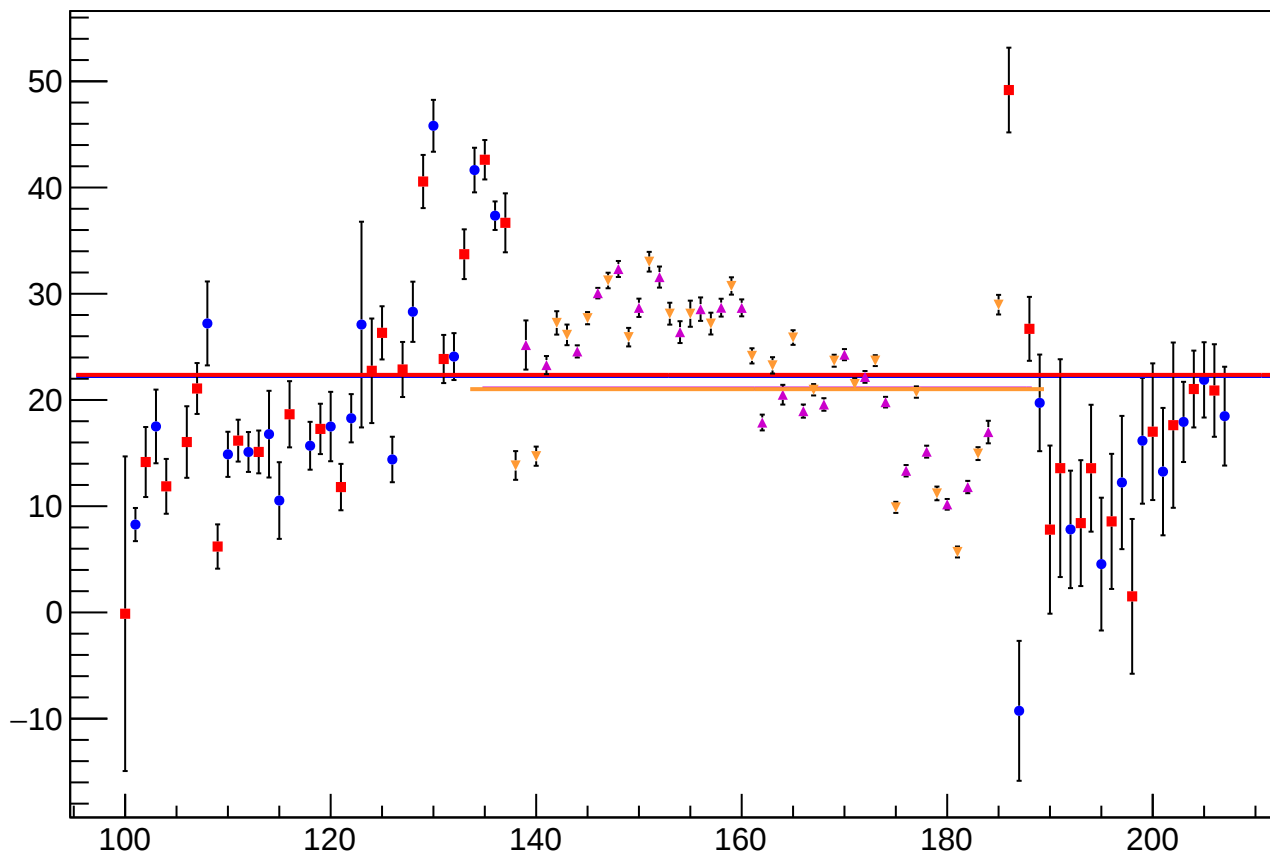
reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -55.362 ± 0.635 $\chi^2/\text{NDF}: 995.0/26$
 Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$
 Right Out: -66.736 ± 0.572 $\chi^2/\text{NDF}: 3122.0/30$
 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: -61.637 ± 0.425 $\chi^2/\text{NDF}: 4294.0/57$
 In: -47.552 ± 0.151 $\chi^2/\text{NDF}: 16670.6/49$
 Out: -49.282 ± 0.149 $\chi^2/\text{NDF}: 21069.7/55$
 All: -48.426 ± 0.106 $\chi^2/\text{NDF}: 37806.7/105$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.257 $\pm$ 0.527 χ^2 /NDF: 505.6/26

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.364 $\pm$ 0.534 χ^2 /NDF: 439.6/30

Left In: 21.079 $\pm$ 0.140 χ^2 /NDF:2173.2/22

Left: 21.049 $\pm$ 0.098 χ^2 /NDF: 4972.6/47

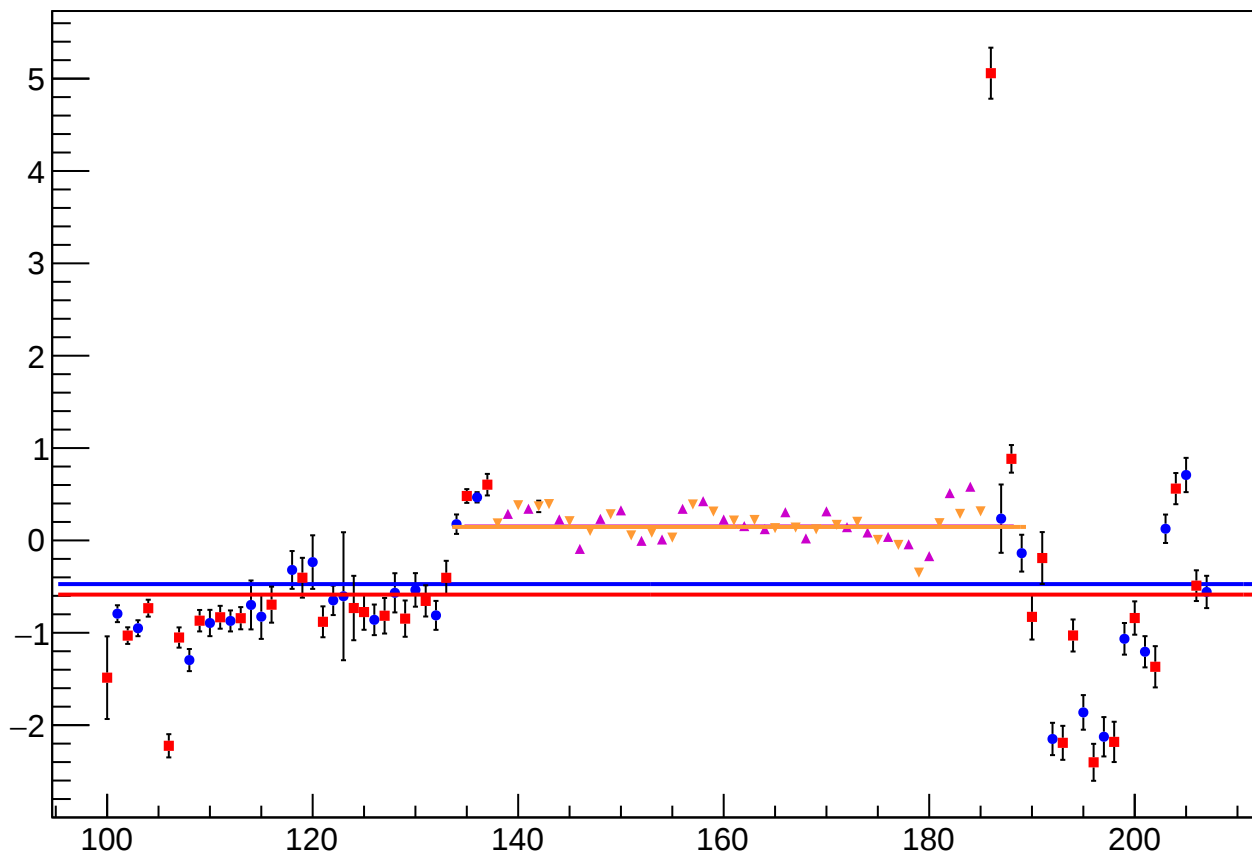
Right: 22.310 $\pm$ 0.375 χ^2 /NDF: 945.3/57

In: 21.156 $\pm$ 0.135 χ^2 /NDF:2683.5/49

Out: 21.105 $\pm$ 0.134 χ^2 /NDF:3244.8/55

All: 21.130 $\pm$ 0.095 χ^2 /NDF: 5928.4/105

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.473 ± 0.027 $\chi^2/\text{NDF}: 748.2/26$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.587 ± 0.027 $\chi^2/\text{NDF}: 1347.4/30$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

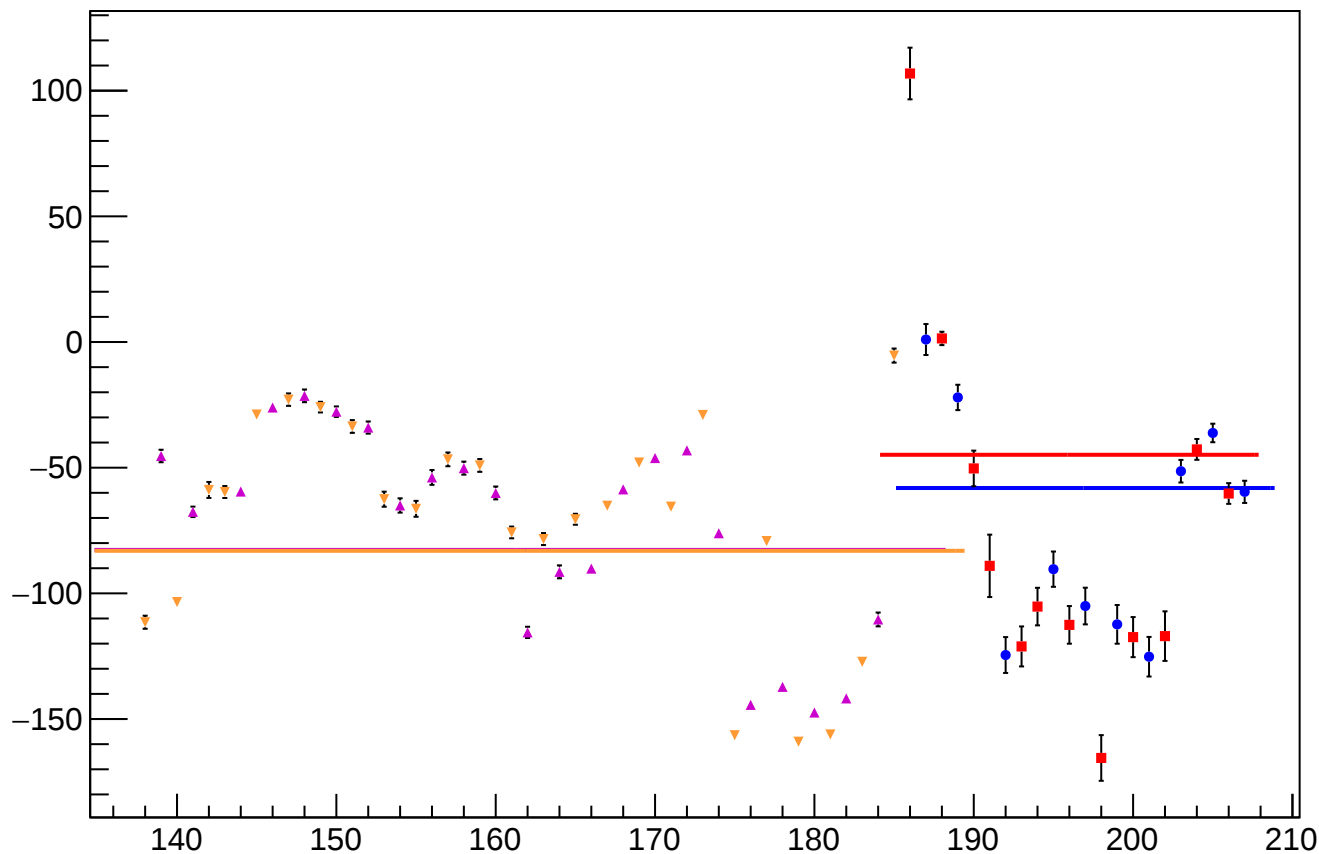
Right: -0.530 ± 0.019 $\chi^2/\text{NDF}: 2104.7/57$

In: 0.118 ± 0.006 $\chi^2/\text{NDF}: 2129.4/49$

Out: 0.107 ± 0.006 $\chi^2/\text{NDF}: 2674.6/55$

All: 0.112 ± 0.004 $\chi^2/\text{NDF}: 4805.5/105$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.089 ± 1.736 $\chi^2/\text{NDF}: 452.1/9$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -44.868 ± 1.612 $\chi^2/\text{NDF}: 1100.9/11$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

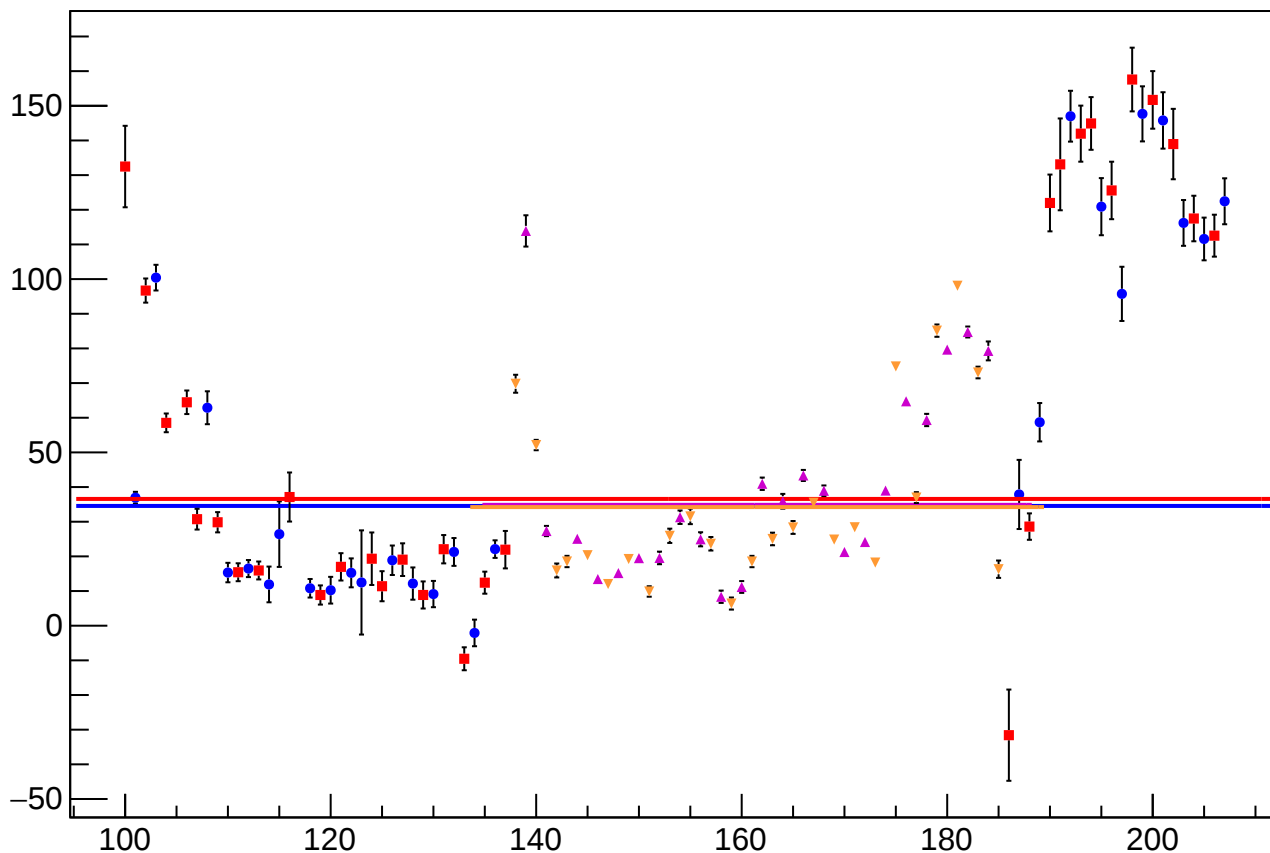
Right: -50.990 ± 1.181 $\chi^2/\text{NDF}: 1584.1/21$

In: -81.379 ± 0.404 $\chi^2/\text{NDF}: 11483.8/32$

Out: -80.786 ± 0.394 $\chi^2/\text{NDF}: 15446.0/36$

All: -81.076 ± 0.282 $\chi^2/\text{NDF}: 26930.9/69$

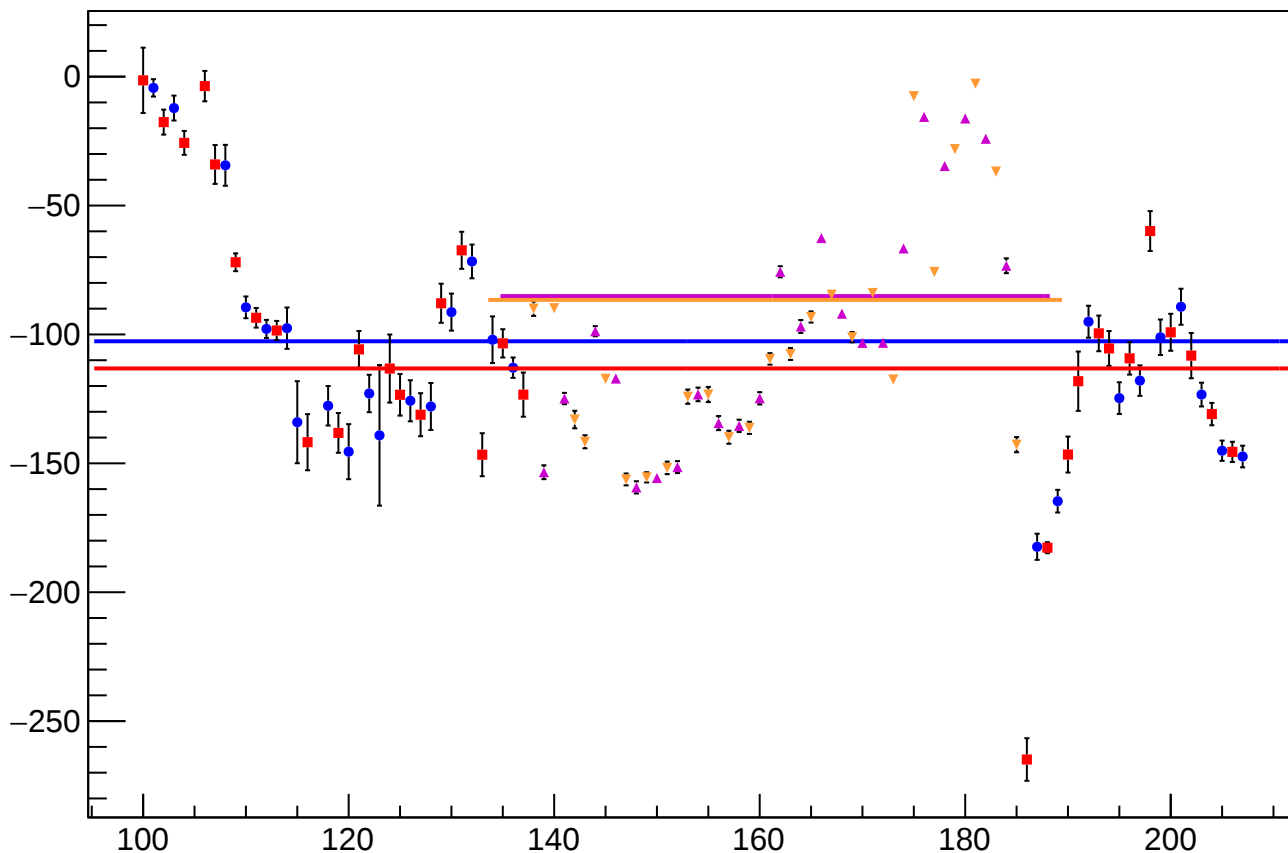
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.555 $\pm$ 0.761 χ^2 /NDF: 2124.3/26
 Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24
 Right Out: 36.576 $\pm$ 0.756 χ^2 /NDF: 2594.4/30
 Left In: 34.870 $\pm$ 0.329 χ^2 /NDF:4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47
 Right: 35.571 $\pm$ 0.536 χ^2 /NDF: 4722.3/57
 In: 34.820 $\pm$ 0.302 χ^2 /NDF:6840.5/49
 Out: 34.578 $\pm$ 0.295 χ^2 /NDF:8795.3/55
 All: 34.696 $\pm$ 0.211 χ^2 /NDF: 15636.2/105

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -102.652 ± 1.067 χ^2/NDF : 2097.3/26

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -113.190 ± 0.980 χ^2/NDF : 3113.1/30

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

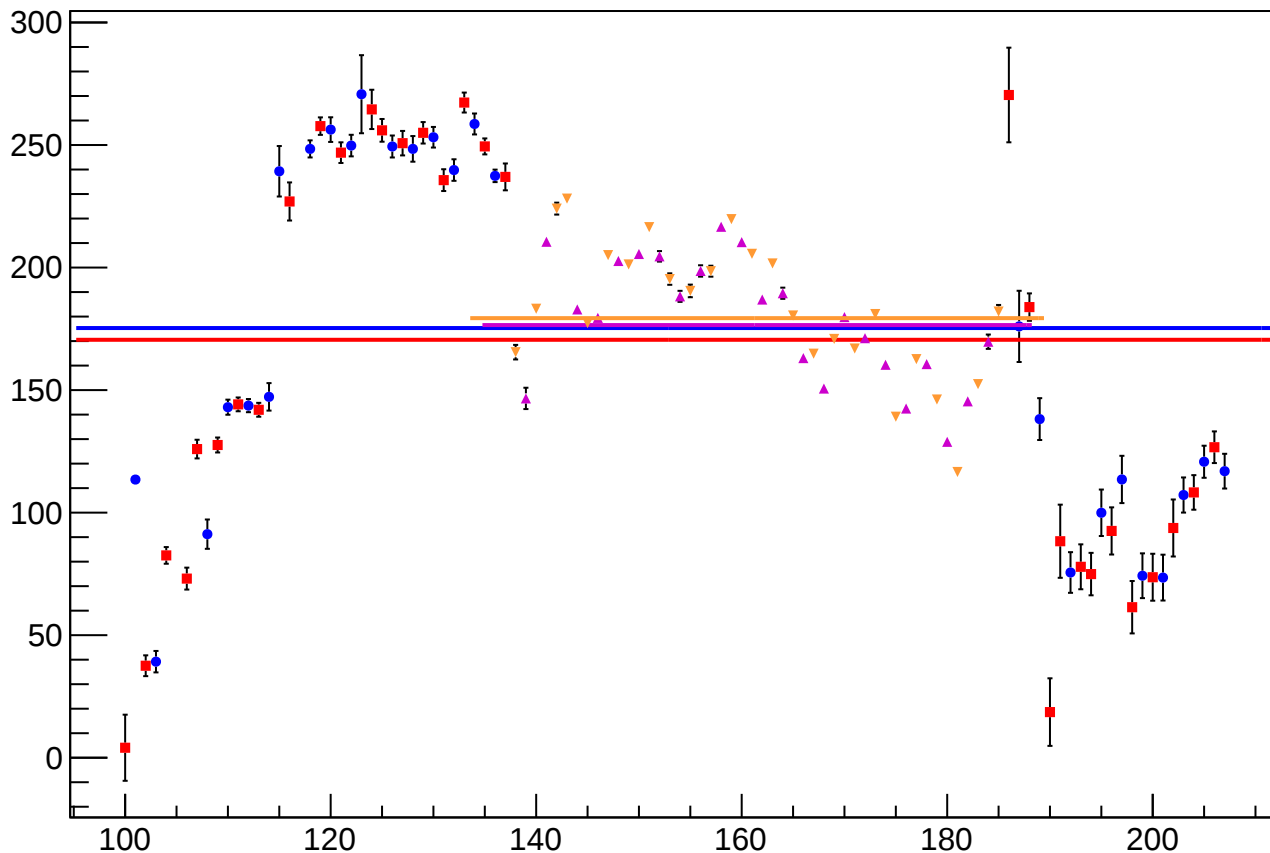
Right: -108.367 ± 0.722 χ^2/NDF : 5263.3/57

In: -87.437 ± 0.387 χ^2/NDF : 15172.8/49

Out: -90.530 ± 0.377 χ^2/NDF : 18256.1/55

All: -89.023 ± 0.270 χ^2/NDF : 33461.7/105

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 175.320 ± 0.870 χ^2/NDF : 6132.8/26

Left Out: 179.359 ± 0.362 χ^2/NDF : 5982.2/24

Right Out: 170.529 ± 0.870 χ^2/NDF : 7247.7/30

Left In: 176.531 ± 0.371 χ^2/NDF : 4426.0/22

Left: 177.980 ± 0.259 χ^2/NDF : 10438.0/47

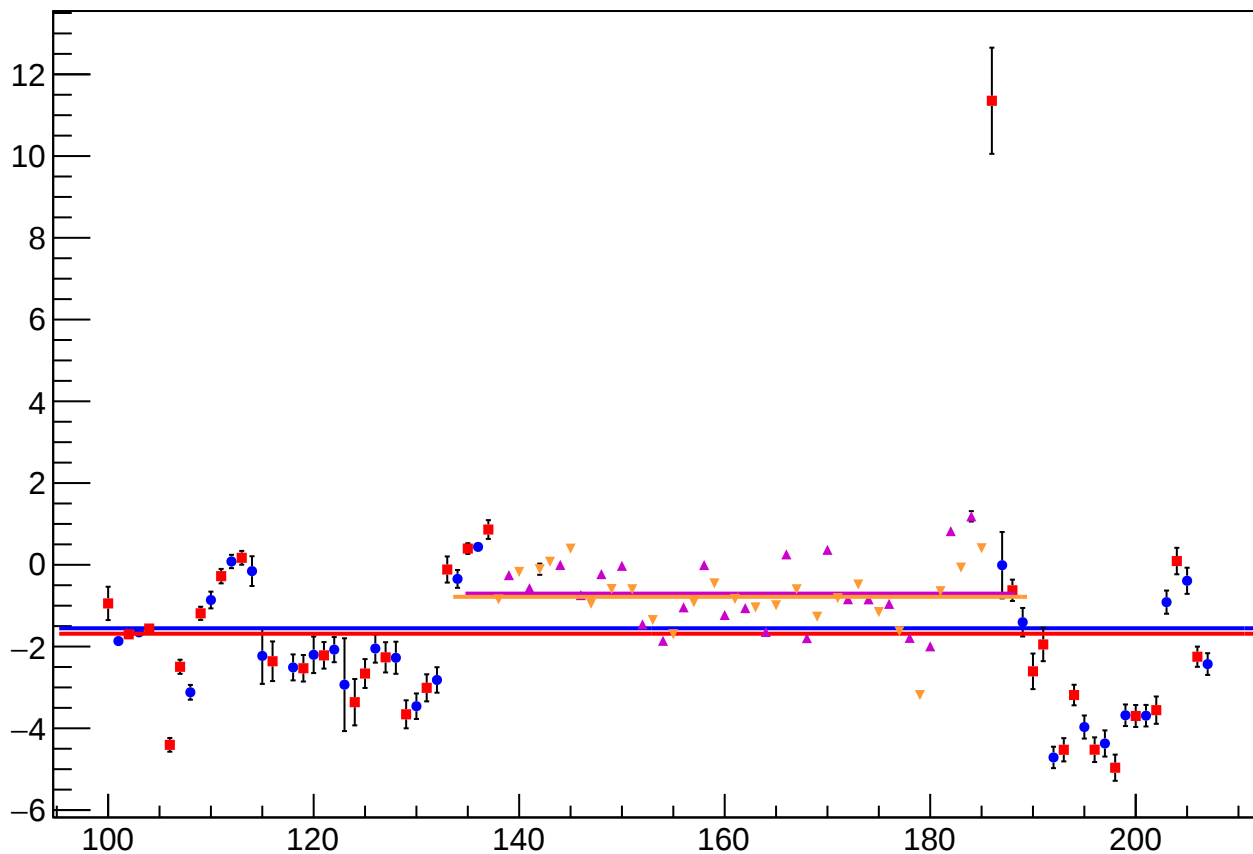
Right: 172.926 ± 0.615 χ^2/NDF : 13395.6/57

In: 176.345 ± 0.341 χ^2/NDF : 10560.4/49

Out: 178.058 ± 0.334 χ^2/NDF : 13317.7/55

All: 177.219 ± 0.239 χ^2/NDF : 23890.9/105

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.552 ± 0.043 χ^2/NDF : 1135.0/26

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.686 ± 0.041 χ^2/NDF : 1534.9/30

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

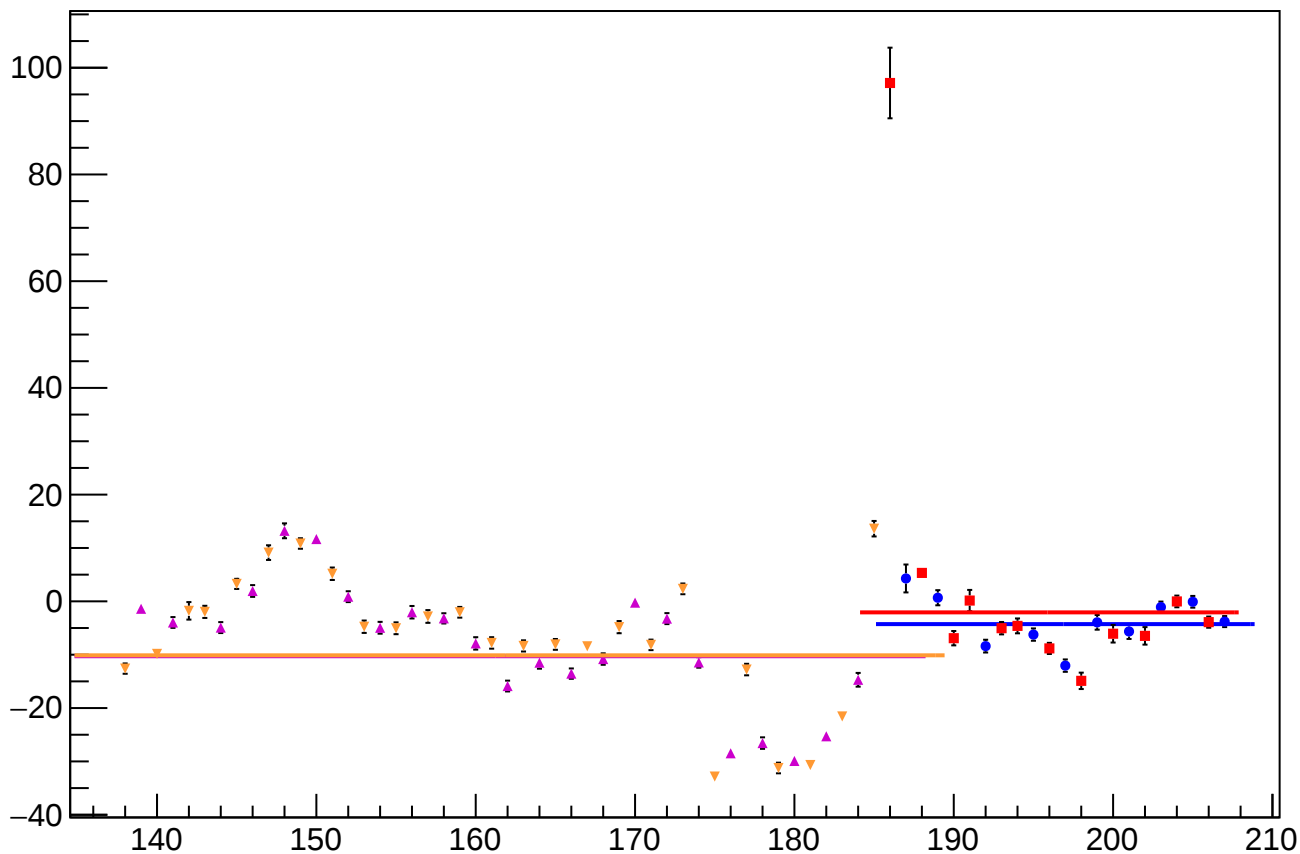
Right: -1.623 ± 0.030 χ^2/NDF : 2674.9/57

In: -0.819 ± 0.016 χ^2/NDF : 3879.6/49

Out: -0.911 ± 0.015 χ^2/NDF : 3725.8/55

All: -0.866 ± 0.011 χ^2/NDF : 7623.2/105

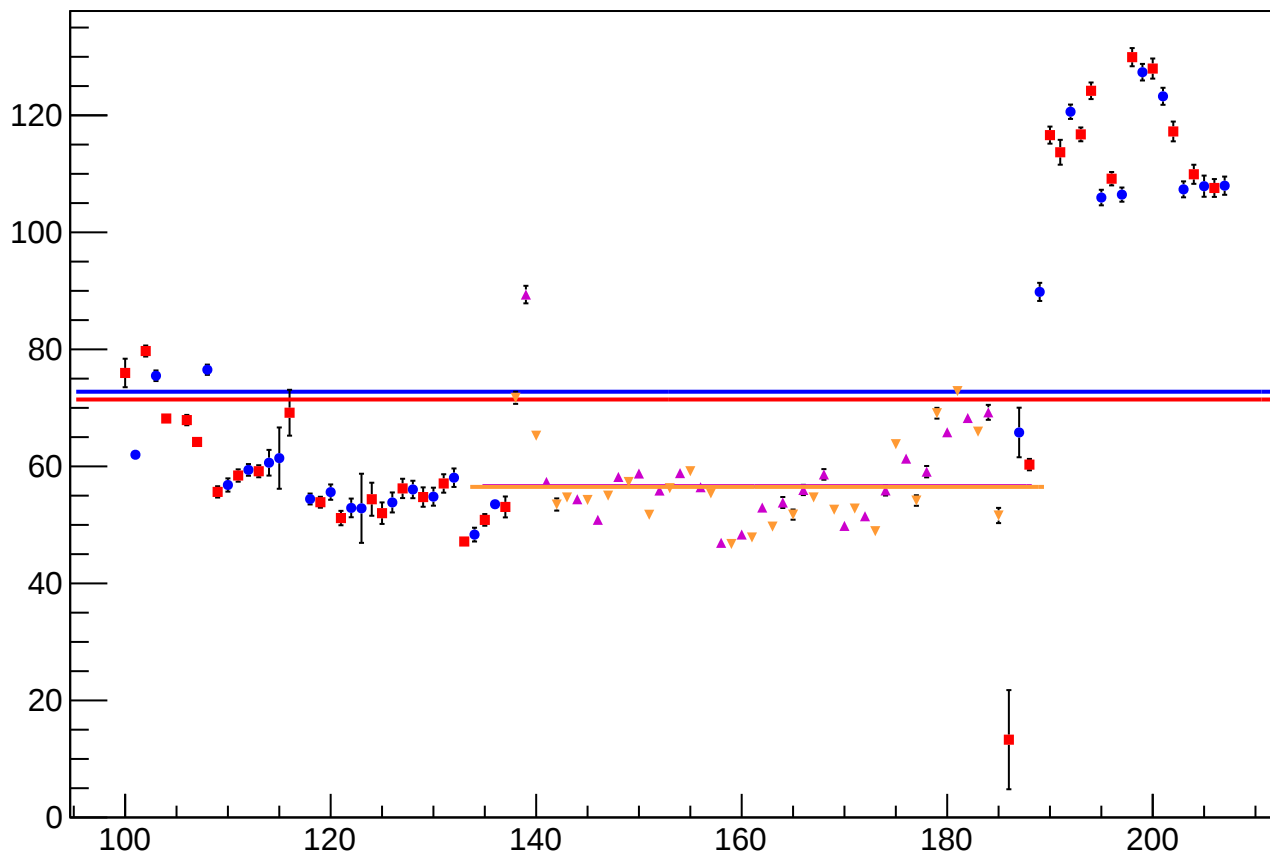
reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.268 ± 0.390 $\chi^2/\text{NDF}: 107.9/9$
 Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$
 Right Out: -2.069 ± 0.346 $\chi^2/\text{NDF}: 513.6/11$
 Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$
 Right: -3.037 ± 0.259 $\chi^2/\text{NDF}: 639.2/21$
 In: -8.983 ± 0.182 $\chi^2/\text{NDF}: 3745.5/32$
 Out: -8.081 ± 0.174 $\chi^2/\text{NDF}: 5055.8/36$
 All: -8.512 ± 0.126 $\chi^2/\text{NDF}: 8814.1/69$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 72.762 $\pm$ 0.229 χ^2 /NDF: 10307.6/26

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 71.432 $\pm$ 0.214 χ^2 /NDF: 13503.4/30

Left In: 56.635 $\pm$ 0.165 χ^2 /NDF:1607.9/22

Left: 56.563 $\pm$ 0.114 χ^2 /NDF: 3576.3/47

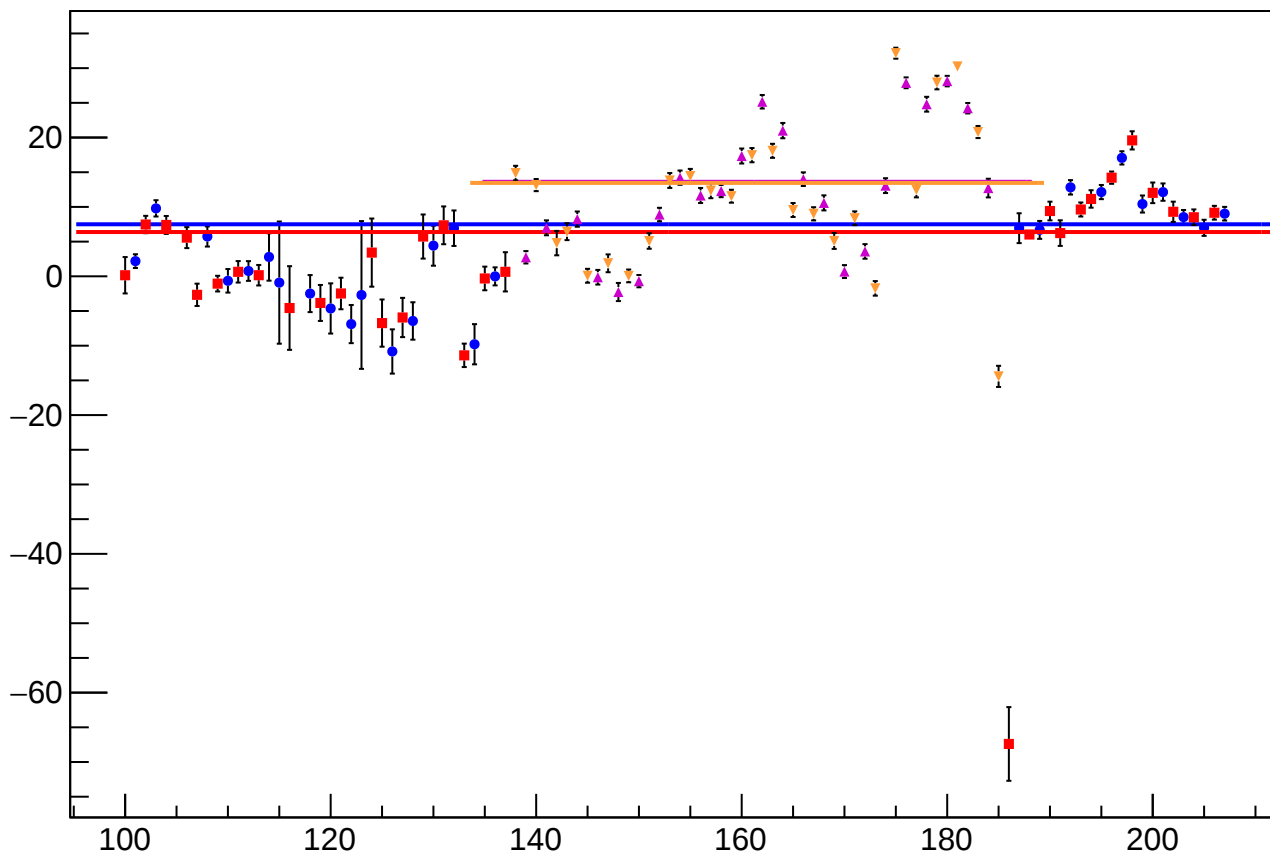
Right: 72.050 $\pm$ 0.156 χ^2 /NDF: 23829.0/57

In: 62.145 $\pm$ 0.134 χ^2 /NDF:15174.3/49

Out: 61.815 $\pm$ 0.127 χ^2 /NDF:18618.8/55

All: 61.972 $\pm$ 0.092 χ^2 /NDF: 33796.3/105

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.499 ± 0.282 χ^2/NDF : 436.1/26

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.381 ± 0.248 χ^2/NDF : 745.8/30

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

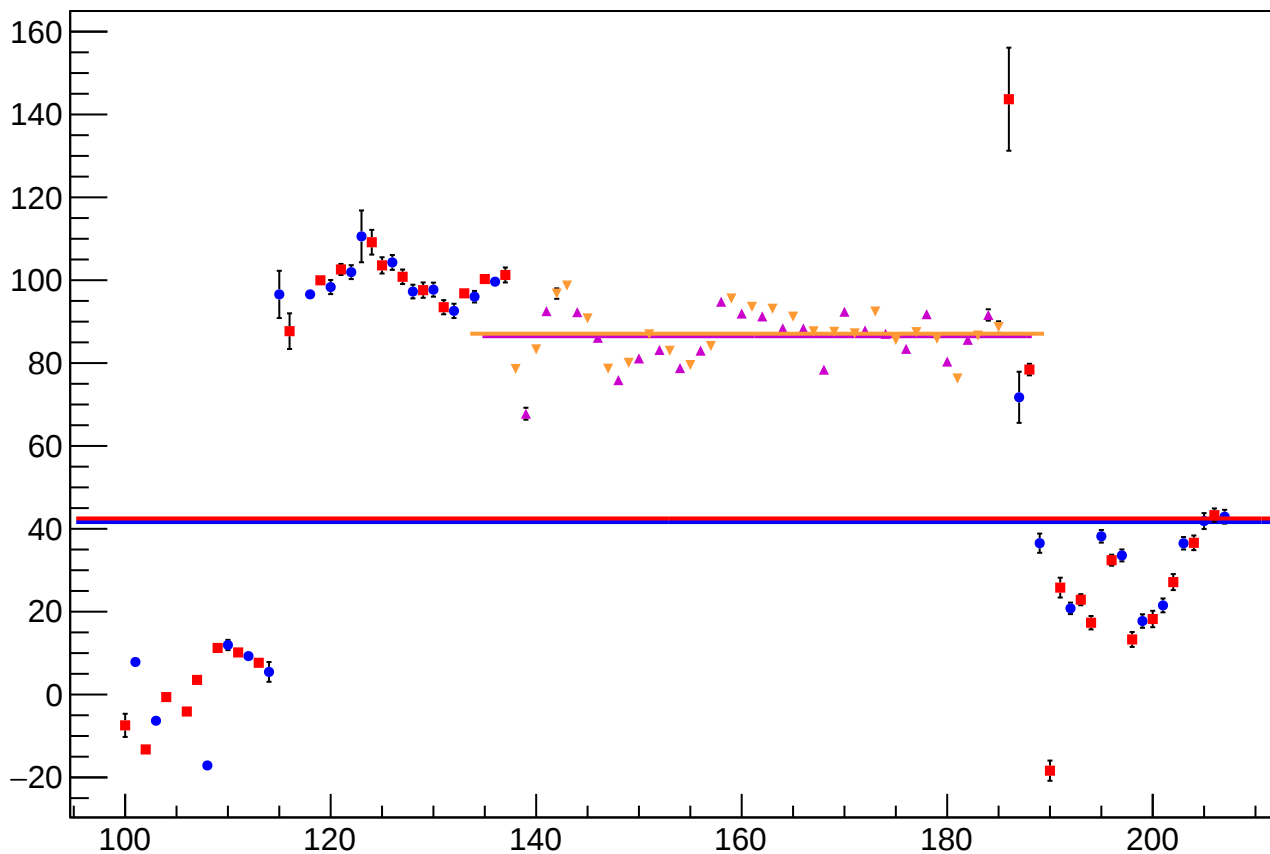
Right: 6.867 ± 0.186 χ^2/NDF : 1190.8/57

In: 11.513 ± 0.166 χ^2/NDF : 3060.0/49

Out: 10.640 ± 0.156 χ^2/NDF : 3974.3/55

All: 11.051 ± 0.114 χ^2/NDF : 7049.1/105

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.631 $\pm$ 0.265 χ^2 /NDF: 25471.1/26

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.495 $\pm$ 0.251 χ^2 /NDF: 30757.1/30

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

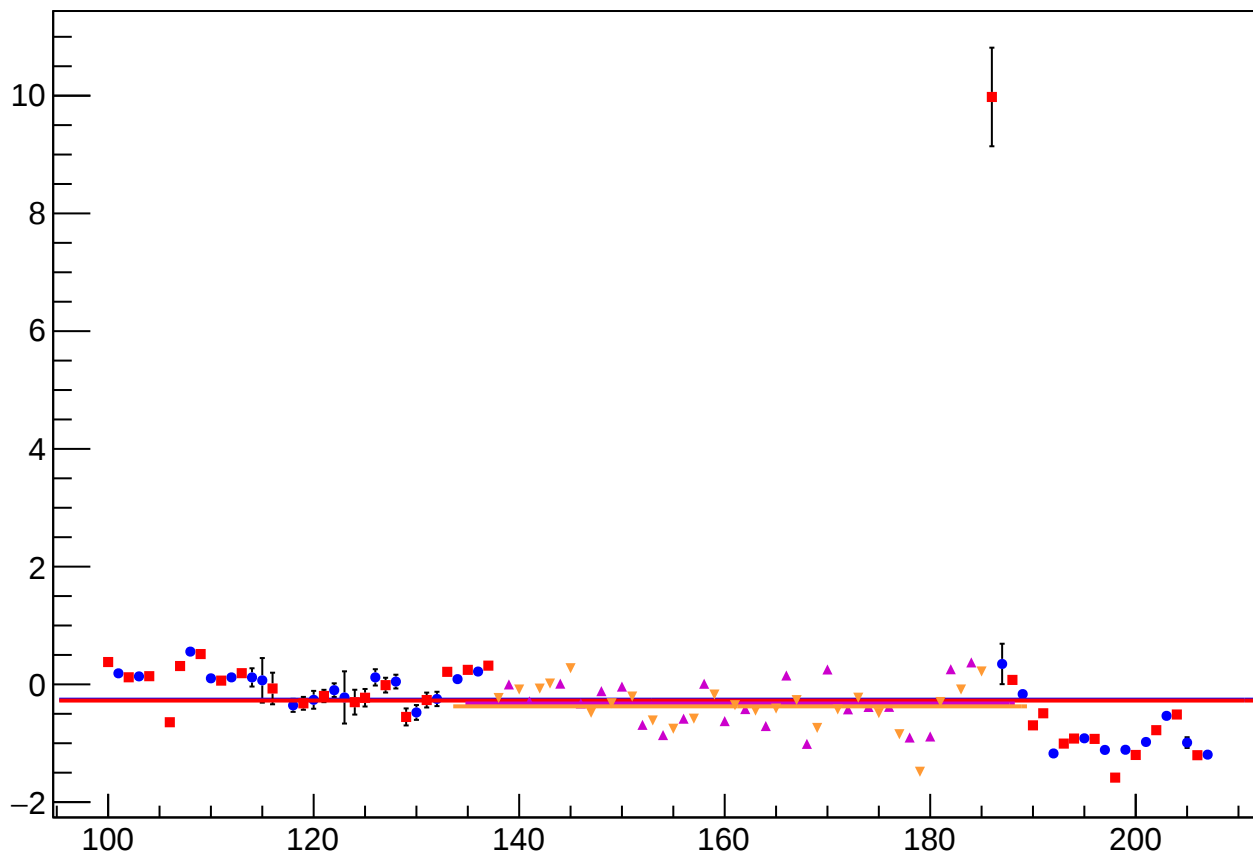
Right: 42.086 $\pm$ 0.183 χ^2 /NDF: 56233.8/57

In: 71.854 $\pm$ 0.152 χ^2 /NDF:45724.8/49

Out: 72.083 $\pm$ 0.146 χ^2 /NDF:52705.4/55

All: 71.973 $\pm$ 0.105 χ^2 /NDF: 98431.4/105

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.260 ± 0.011 χ^2/NDF : 3178.1/26

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.275 ± 0.010 χ^2/NDF : 3557.2/30

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

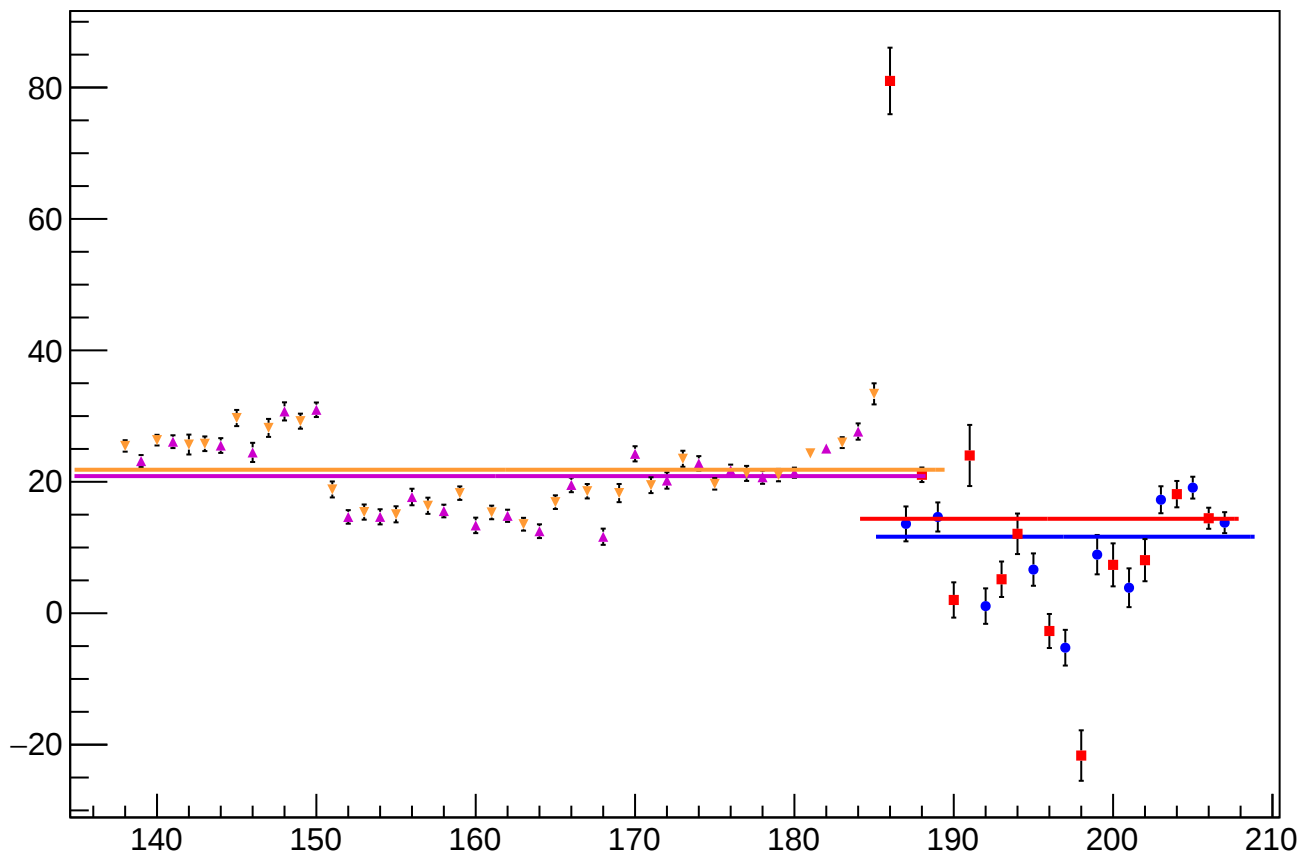
Right: -0.268 ± 0.007 χ^2/NDF : 6736.3/57

In: -0.301 ± 0.007 χ^2/NDF : 5485.2/49

Out: -0.335 ± 0.006 χ^2/NDF : 5282.9/55

All: -0.319 ± 0.005 χ^2/NDF : 10781.6/105

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.645 ± 0.707 $\chi^2/\text{NDF}: 97.7/9$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 14.373 ± 0.655 $\chi^2/\text{NDF}: 390.9/11$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

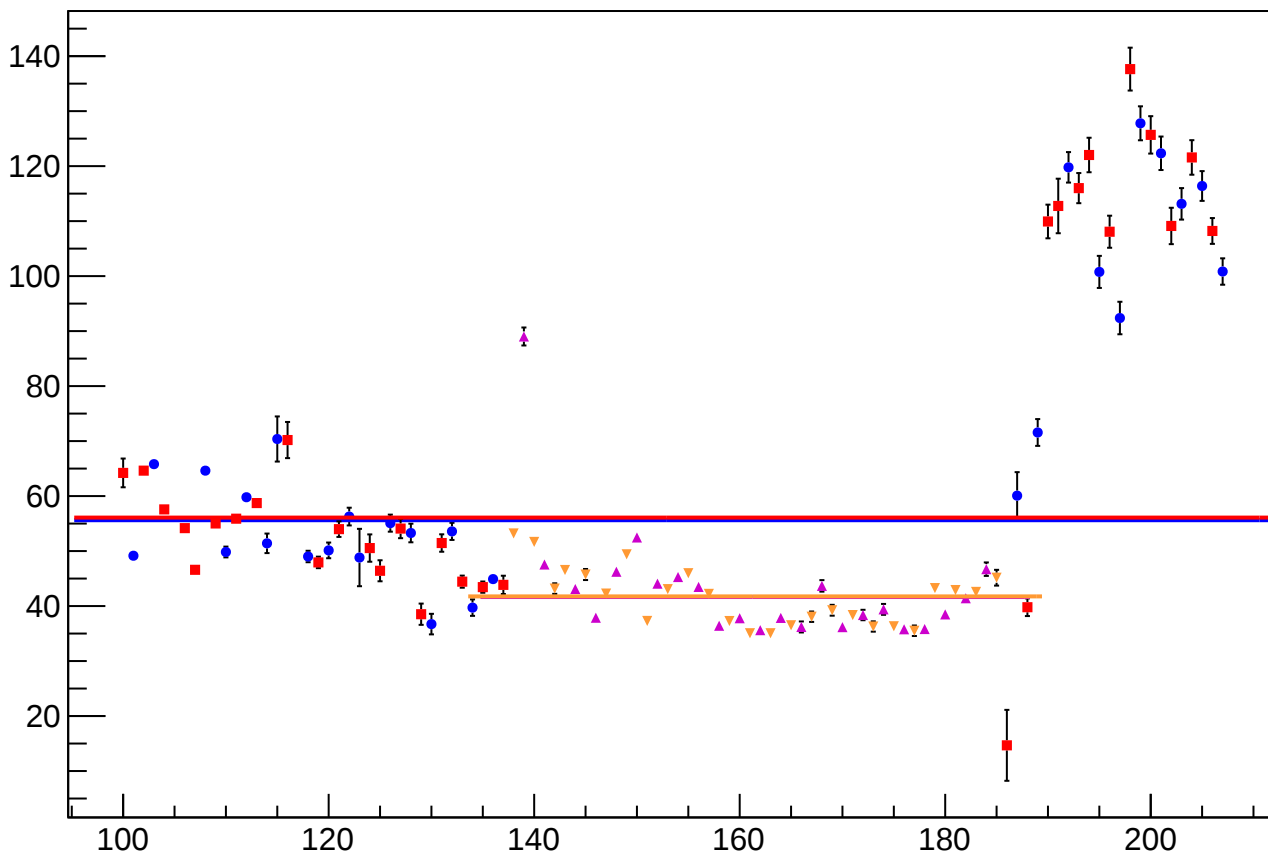
Right: 13.112 ± 0.481 $\chi^2/\text{NDF}: 496.6/21$

In: 20.074 ± 0.207 $\chi^2/\text{NDF}: 830.1/32$

Out: 21.143 ± 0.200 $\chi^2/\text{NDF}: 1032.8/36$

All: 20.628 ± 0.144 $\chi^2/\text{NDF}: 1876.7/69$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.611 $\pm$ 0.205 χ^2 /NDF: 4616.5/26

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 56.087 $\pm$ 0.219 χ^2 /NDF: 4889.4/30

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

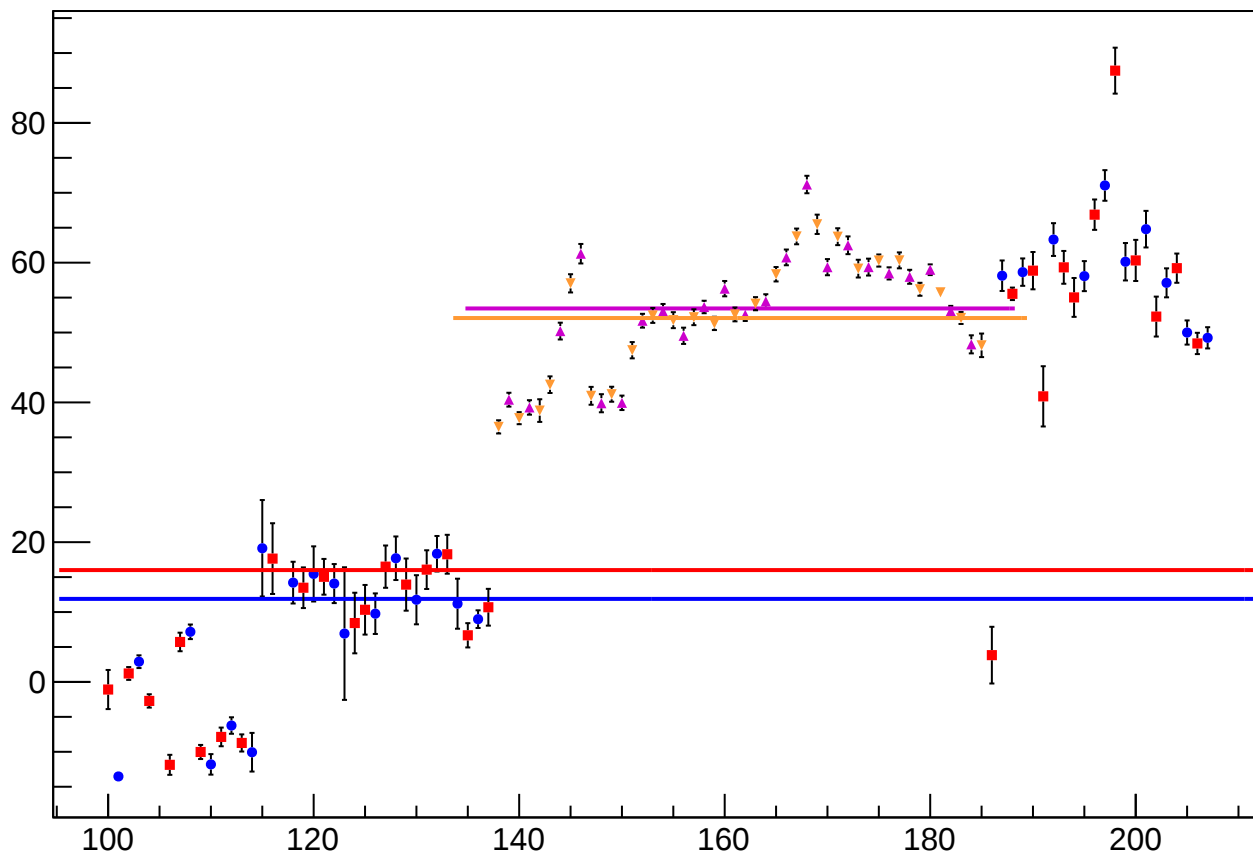
Right: 55.834 $\pm$ 0.150 χ^2 /NDF: 9508.4/57

In: 47.467 $\pm$ 0.133 χ^2 /NDF:8921.3/49

Out: 46.964 $\pm$ 0.132 χ^2 /NDF:8634.2/55

All: 47.214 $\pm$ 0.094 χ^2 /NDF: 17562.7/105

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.883+/-0.318 χ^2/NDF : 7357.4/26

Left Out: 52.076+/-0.210 χ^2/NDF :1450.9/24

Right Out: 16.006+/-0.315 χ^2/NDF : 7637.2/30

Left In: 53.447+/-0.215 χ^2/NDF :1169.0/22

Left: 52.744+/-0.150 χ^2/NDF : 2640.6/47

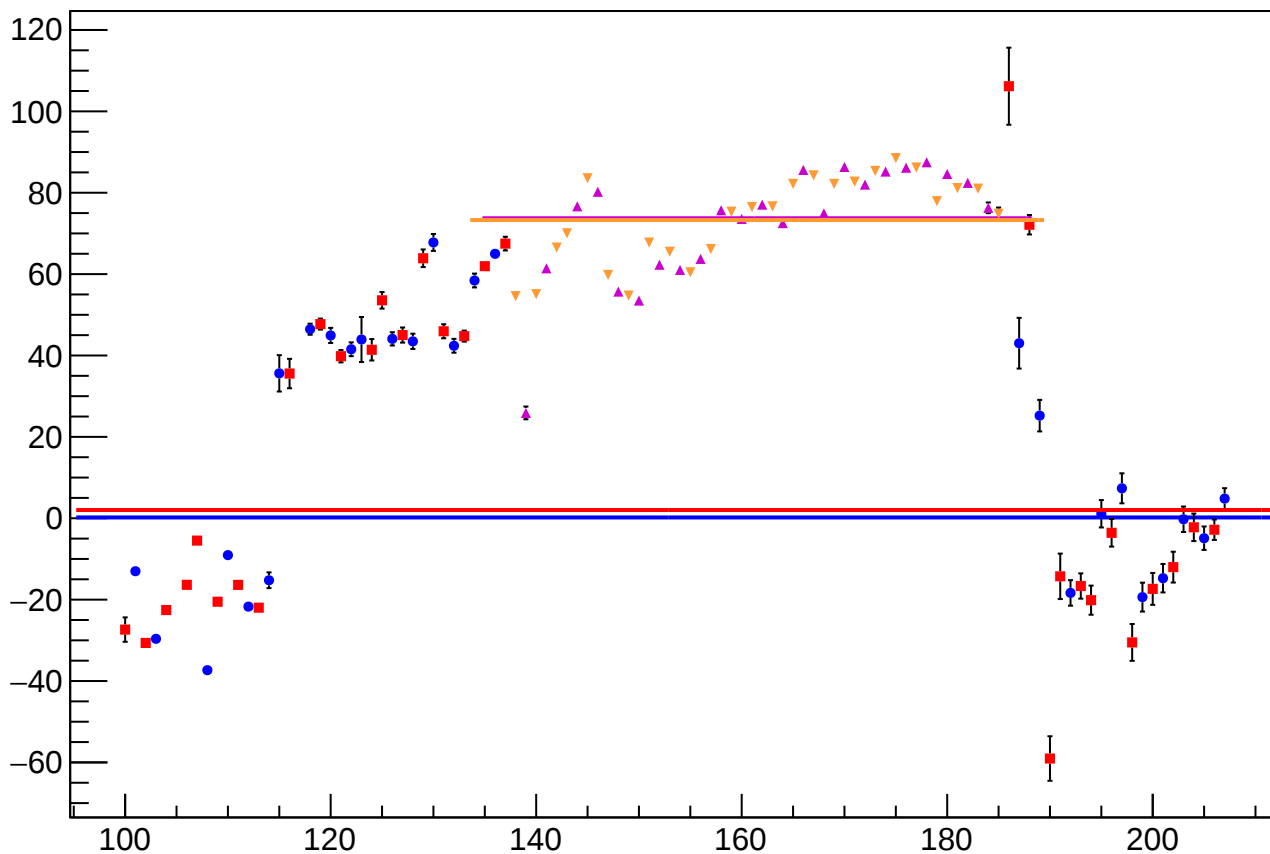
Right: 13.962+/-0.224 χ^2/NDF : 15079.2/57

In: 40.383+/-0.178 χ^2/NDF :20234.4/49

Out: 40.999+/-0.175 χ^2/NDF :18147.7/55

All: 40.697+/-0.125 χ^2/NDF : 38388.1/105

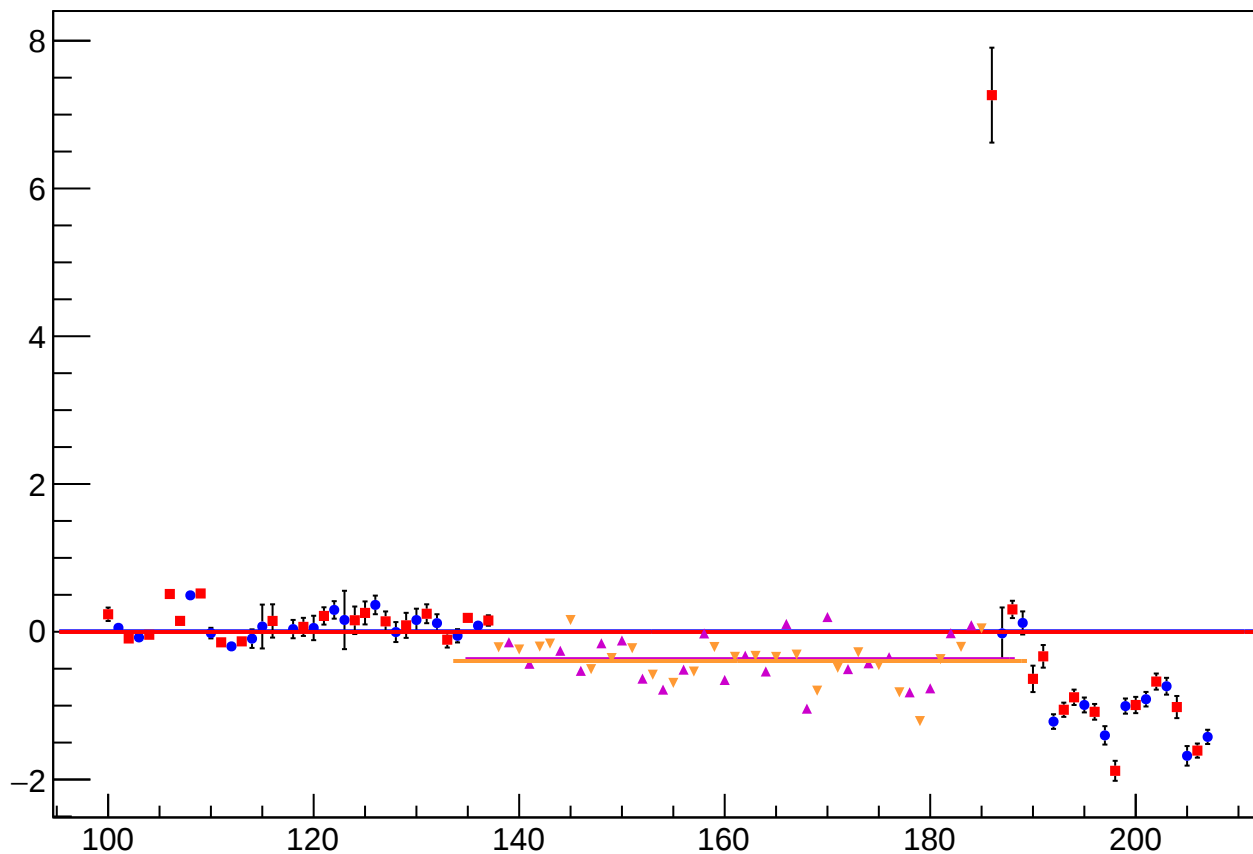
reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.199 ± 0.241 $\chi^2/\text{NDF}: 18402.9/26$
 Left Out: 73.284 ± 0.187 $\chi^2/\text{NDF}: 3144.2/24$
 Right Out: 2.027 ± 0.258 $\chi^2/\text{NDF}: 16705.3/30$
 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: 1.051 ± 0.176 $\chi^2/\text{NDF}: 35135.0/57$
 In: 44.778 ± 0.151 $\chi^2/\text{NDF}: 78549.6/49$
 Out: 48.791 ± 0.151 $\chi^2/\text{NDF}: 69841.7/55$
 All: 46.783 ± 0.107 $\chi^2/\text{NDF}: 148742.9/105$

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.006 ± 0.011 $\chi^2/\text{NDF}: 1467.2/26$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.003 ± 0.011 $\chi^2/\text{NDF}: 1544.2/30$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

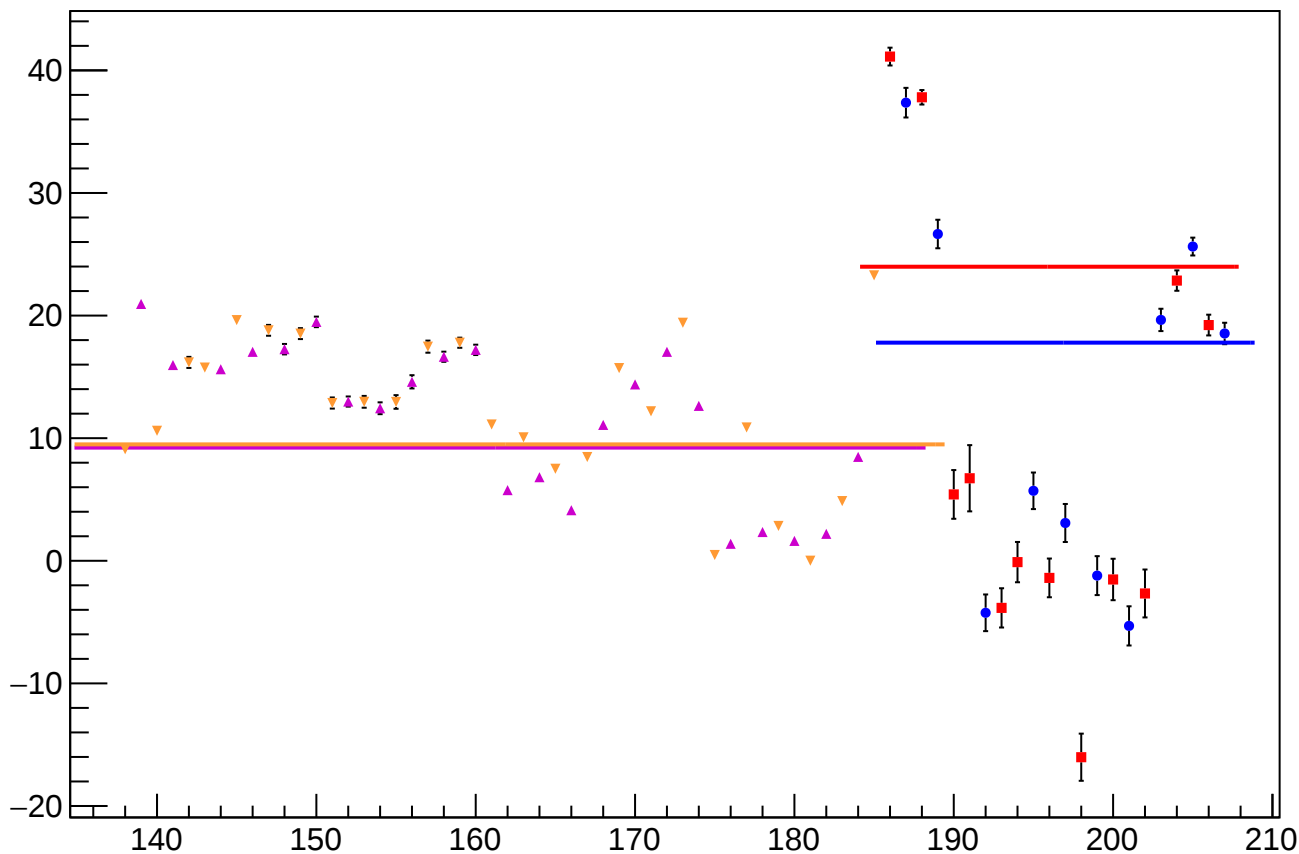
Right: 0.002 ± 0.007 $\chi^2/\text{NDF}: 3011.8/57$

In: -0.218 ± 0.007 $\chi^2/\text{NDF}: 3539.1/49$

Out: -0.239 ± 0.007 $\chi^2/\text{NDF}: 3335.1/55$

All: -0.229 ± 0.005 $\chi^2/\text{NDF}: 6879.2/105$

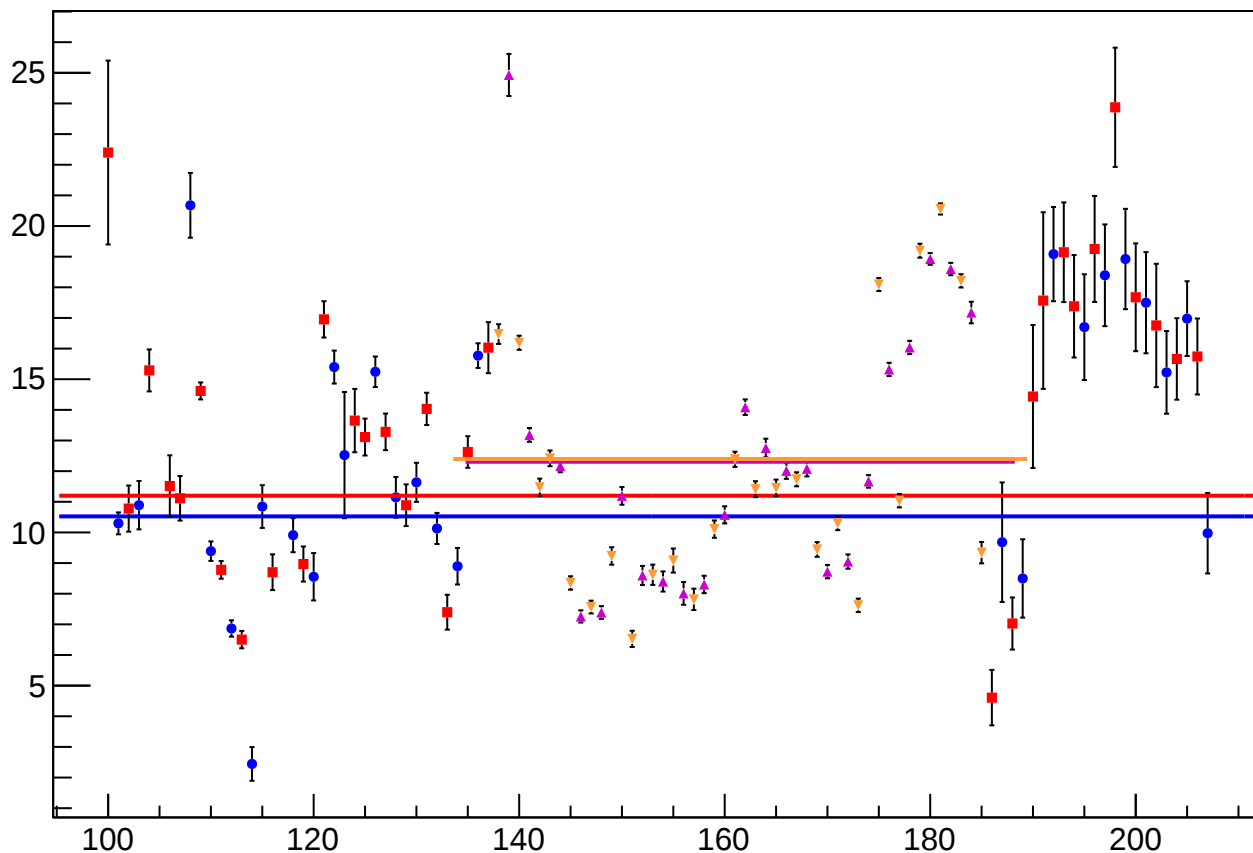
reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 17.792 ± 0.355 $\chi^2/\text{NDF}: 1166.2/9$
 Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$
 Right Out: 23.986 ± 0.316 $\chi^2/\text{NDF}: 2886.6/11$
 Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$
 Right: 21.253 ± 0.236 $\chi^2/\text{NDF}: 4222.7/21$
 In: 9.492 ± 0.062 $\chi^2/\text{NDF}: 12465.6/32$
 Out: 10.020 ± 0.060 $\chi^2/\text{NDF}: 17526.7/36$
 All: 9.765 ± 0.043 $\chi^2/\text{NDF}: 30029.6/69$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.524+/-0.116 χ^2/NDF : 1024.9/26

Left Out: 12.397+/-0.050 χ^2/NDF : 7542.8/24

Right Out: 11.198+/-0.112 χ^2/NDF : 1048.8/30

Left In: 12.307+/-0.051 χ^2/NDF : 5601.8/22

Left: 12.353+/-0.036 χ^2/NDF : 13146.3/47

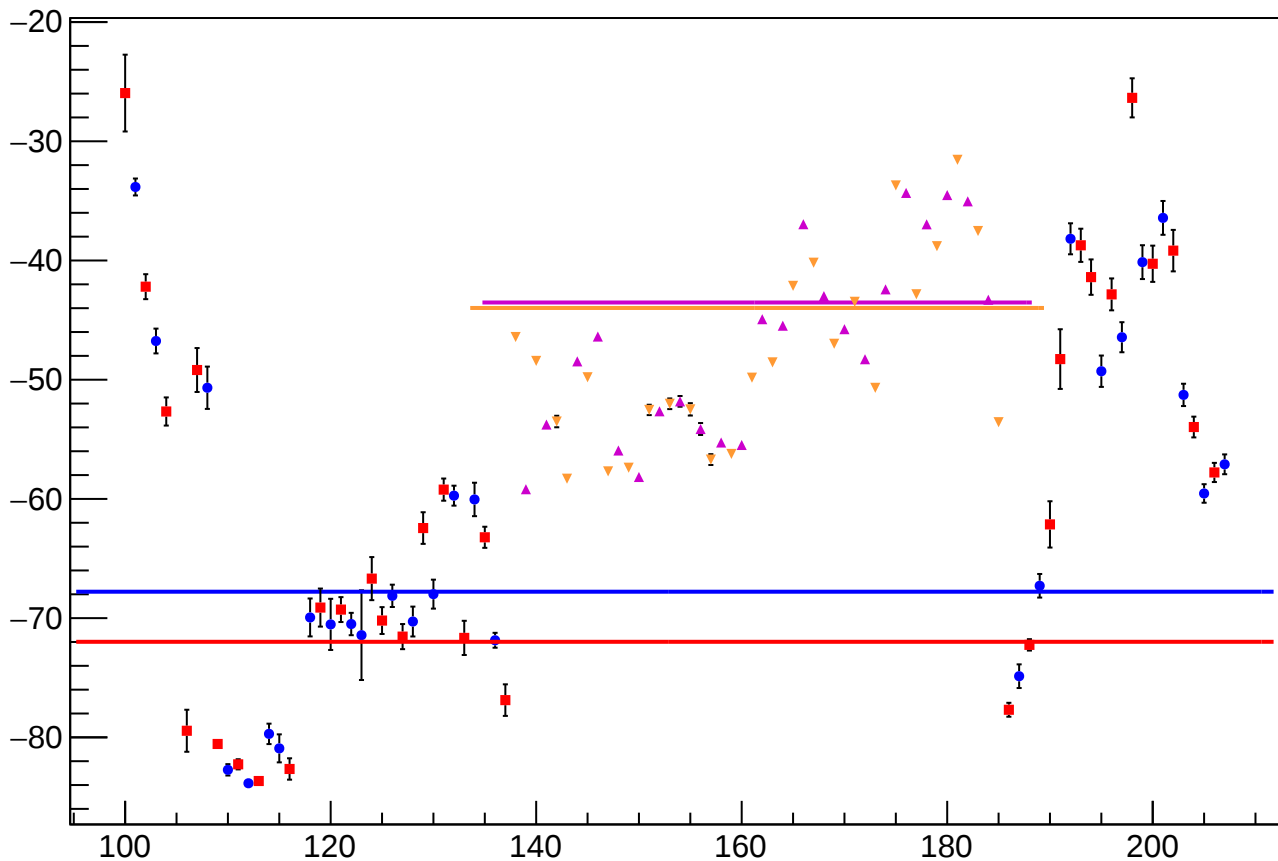
Right: 10.873+/-0.081 χ^2/NDF : 2091.2/57

In: 12.016+/-0.047 χ^2/NDF : 6824.6/49

Out: 12.200+/-0.045 χ^2/NDF : 8687.4/55

All: 12.111+/-0.033 χ^2/NDF : 15520.0/105

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.782 ± 0.170 $\chi^2/\text{NDF}: 8569.0/26$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -71.985 ± 0.151 $\chi^2/\text{NDF}: 7942.3/30$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

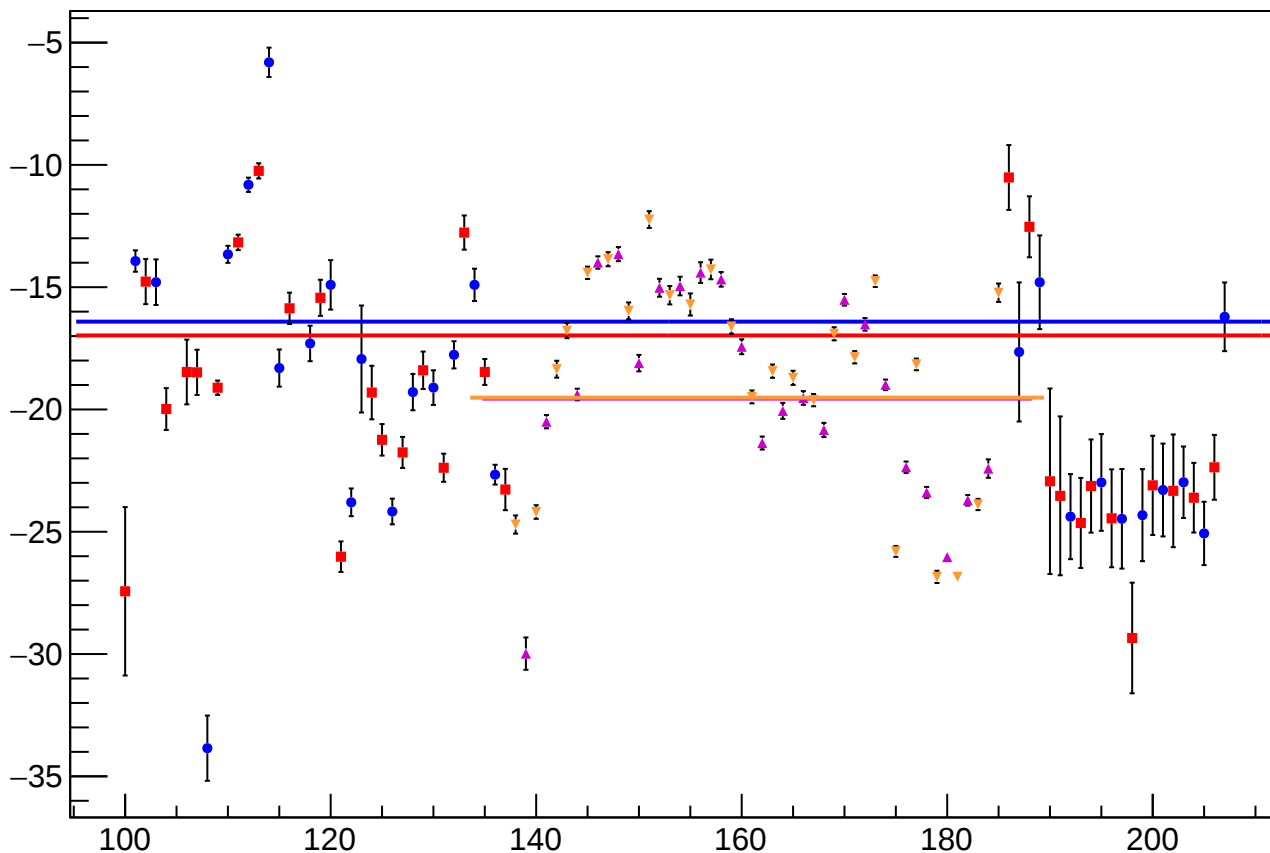
Right: -70.133 ± 0.113 $\chi^2/\text{NDF}: 16851.7/57$

In: -46.468 ± 0.059 $\chi^2/\text{NDF}: 41656.7/49$

Out: -48.005 ± 0.057 $\chi^2/\text{NDF}: 55048.5/55$

All: -47.264 ± 0.041 $\chi^2/\text{NDF}: 97051.9/105$

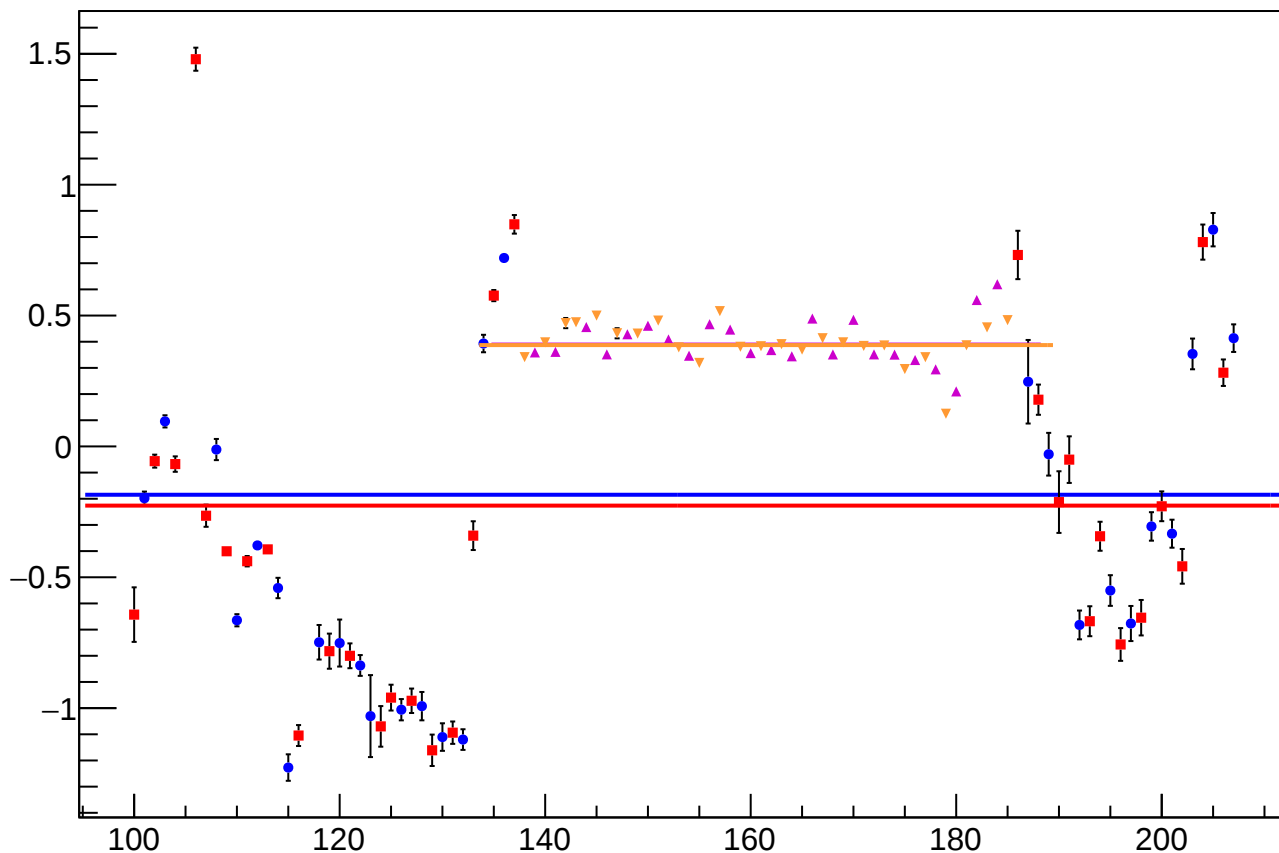
reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.409 ± 0.129 $\chi^2/\text{NDF}: 1770.9/26$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.973 ± 0.124 $\chi^2/\text{NDF}: 1383.1/30$
 Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$
 Right: -16.702 ± 0.090 $\chi^2/\text{NDF}: 3163.9/57$
 In: -19.036 ± 0.052 $\chi^2/\text{NDF}: 6578.2/49$
 Out: -19.092 ± 0.051 $\chi^2/\text{NDF}: 8249.6/55$
 All: -19.065 ± 0.037 $\chi^2/\text{NDF}: 14828.4/105$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.185 ± 0.007 χ^2/NDF : 6982.0/26

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.226 ± 0.007 χ^2/NDF : 6853.9/30

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

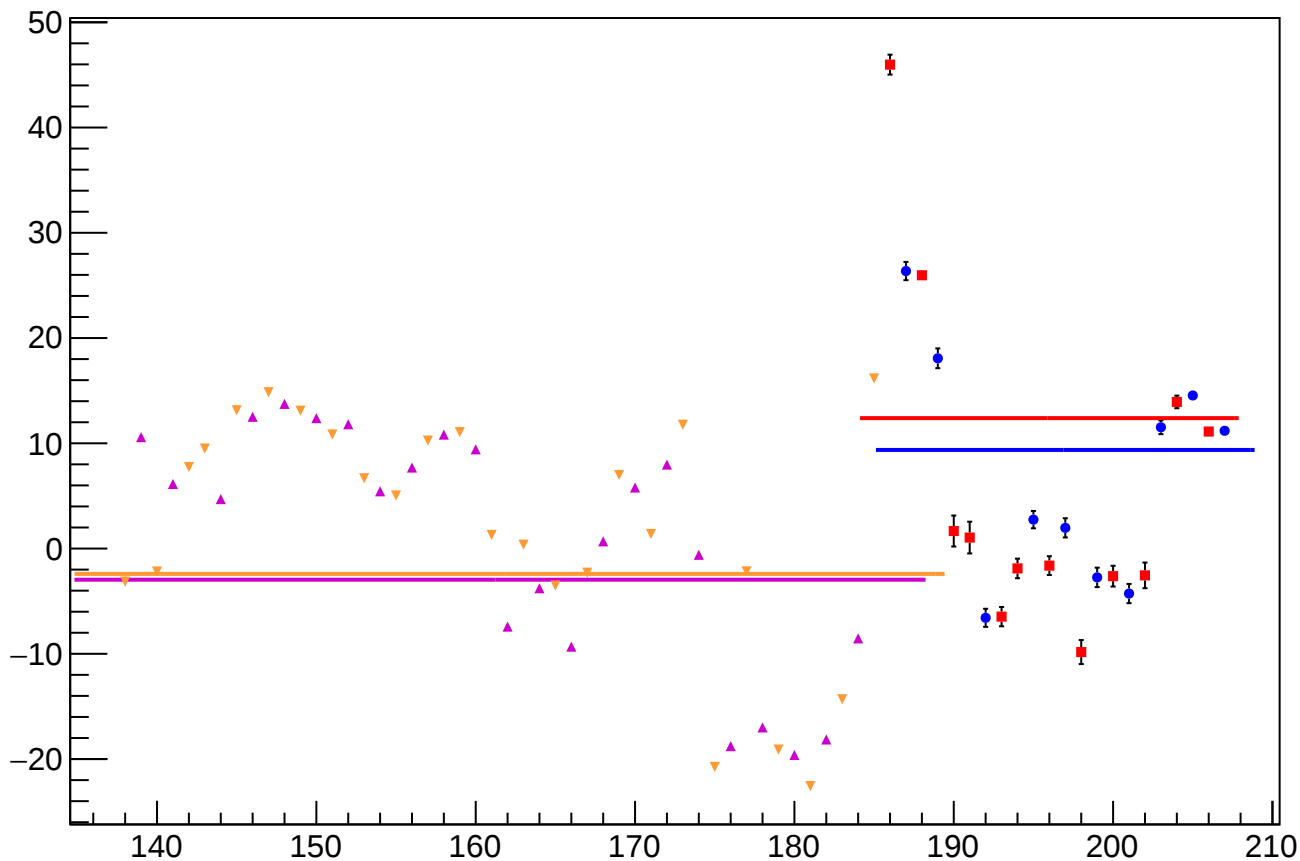
Right: -0.206 ± 0.005 χ^2/NDF : 13854.0/57

In: 0.319 ± 0.002 χ^2/NDF : 14062.5/49

Out: 0.309 ± 0.002 χ^2/NDF : 15152.1/55

All: 0.314 ± 0.002 χ^2/NDF : 29223.7/105

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



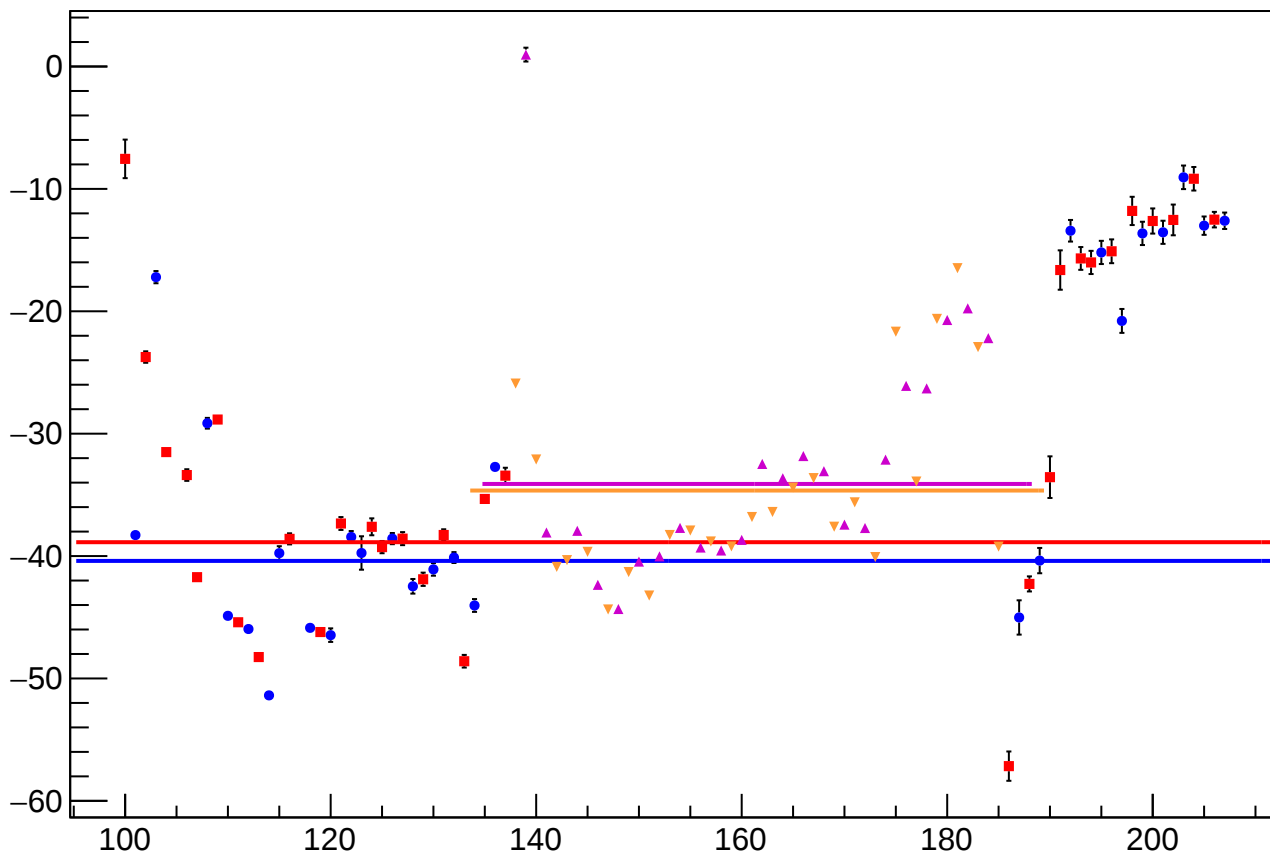
Right In: 9.370 ± 0.219 $\chi^2/\text{NDF}: 1491.6/9$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 12.392 ± 0.215 $\chi^2/\text{NDF}: 4056.1/11$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 10.909 ± 0.153 $\chi^2/\text{NDF}: 5644.9/21$

In: -2.230 ± 0.053 $\chi^2/\text{NDF}: 50401.0/32$
 Out: -1.565 ± 0.051 $\chi^2/\text{NDF}: 64900.5/36$

All: -1.885 ± 0.037 $\chi^2/\text{NDF}: 115382.7/69$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.395 ± 0.075 $\chi^2/\text{NDF}: 14815.2/26$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.867 ± 0.070 $\chi^2/\text{NDF}: 18171.4/30$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

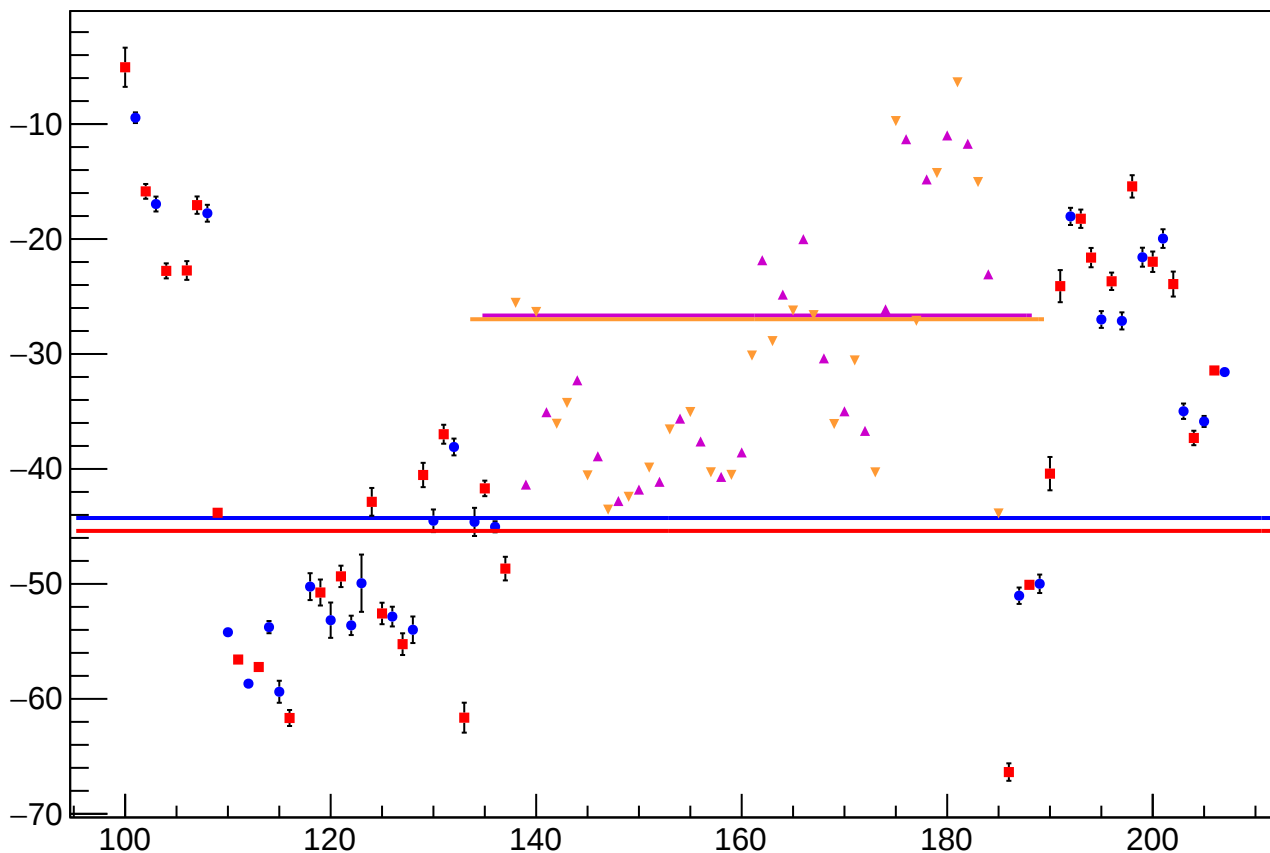
Right: -39.578 ± 0.051 $\chi^2/\text{NDF}: 33206.1/57$

In: -35.703 ± 0.038 $\chi^2/\text{NDF}: 49055.6/49$

Out: -35.746 ± 0.036 $\chi^2/\text{NDF}: 55506.3/55$

All: -35.725 ± 0.026 $\chi^2/\text{NDF}: 104562.6/105$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -44.267 $\pm$ 0.106 χ^2 /NDF: 21450.7/26

Left Out: -26.978 $\pm$ 0.053 χ^2 /NDF:49361.1/24

Right Out: -45.390 $\pm$ 0.094 χ^2 /NDF: 19693.5/30

Left In: -26.654 $\pm$ 0.055 χ^2 /NDF:42106.8/22

Left: -26.821 $\pm$ 0.038 χ^2 /NDF: 91485.8/47

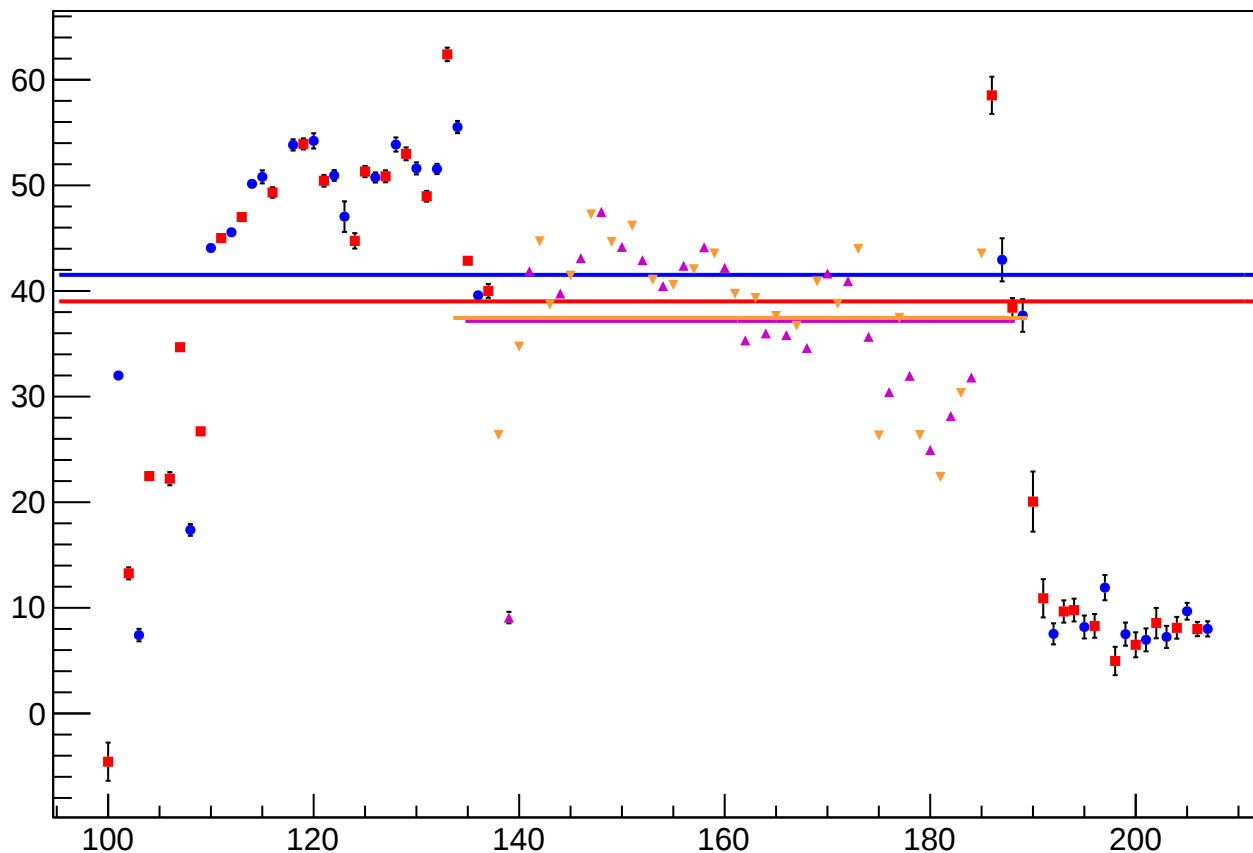
Right: -44.901 $\pm$ 0.070 χ^2 /NDF: 41206.9/57

In: -30.360 $\pm$ 0.049 χ^2 /NDF:85188.3/49

Out: -31.477 $\pm$ 0.046 χ^2 /NDF:98339.5/55

All: -30.949 $\pm$ 0.034 χ^2 /NDF: 183804.1/105

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.528 $\pm$ 0.084 χ^2 /NDF: 20758.9/26

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 39.016 $\pm$ 0.078 χ^2 /NDF: 25431.7/30

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

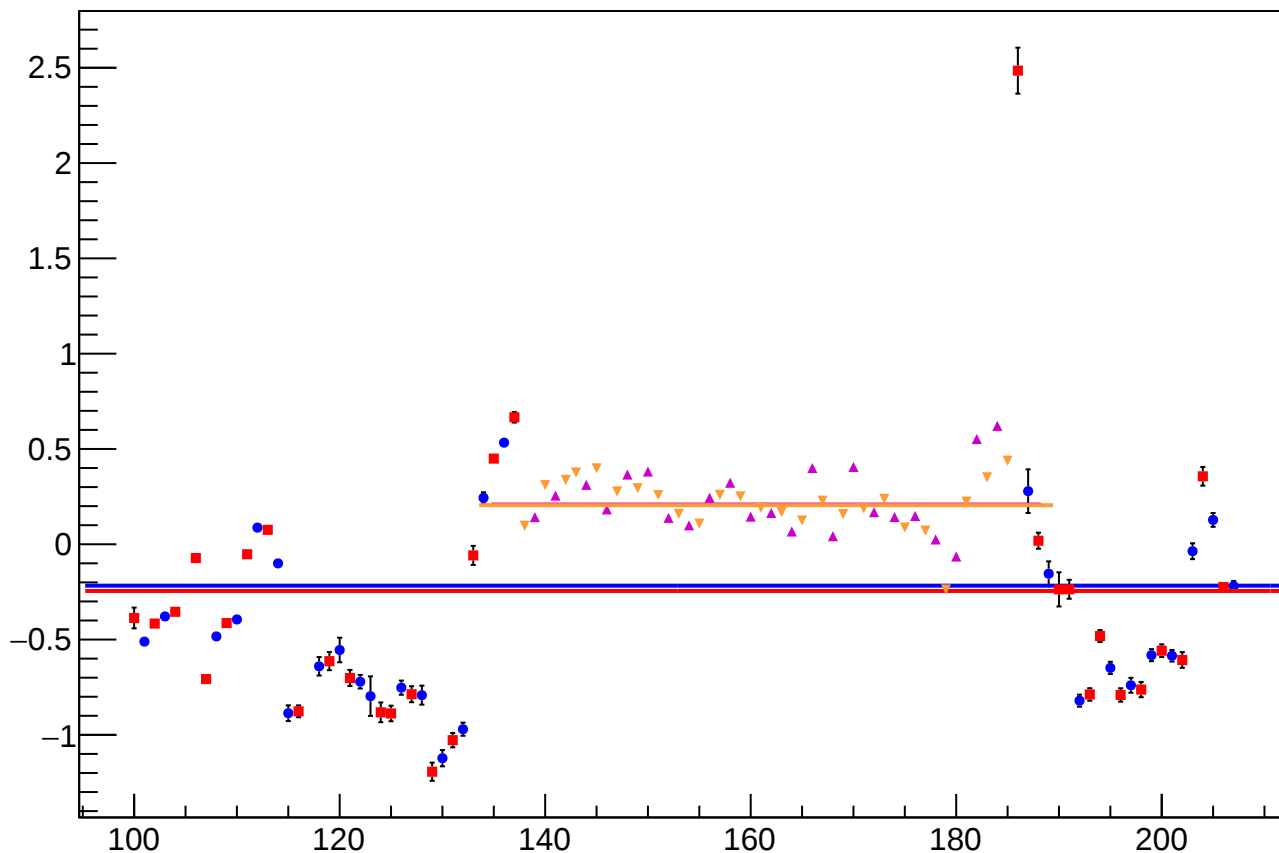
Right: 40.176 $\pm$ 0.057 χ^2 /NDF: 46670.8/57

In: 38.283 $\pm$ 0.043 χ^2 /NDF:39995.6/49

Out: 37.867 $\pm$ 0.040 χ^2 /NDF:47299.0/55

All: 38.064 $\pm$ 0.029 χ^2 /NDF: 87344.9/105

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.004 χ^2/NDF : 8552.9/26

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.245 ± 0.004 χ^2/NDF : 9061.0/30

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

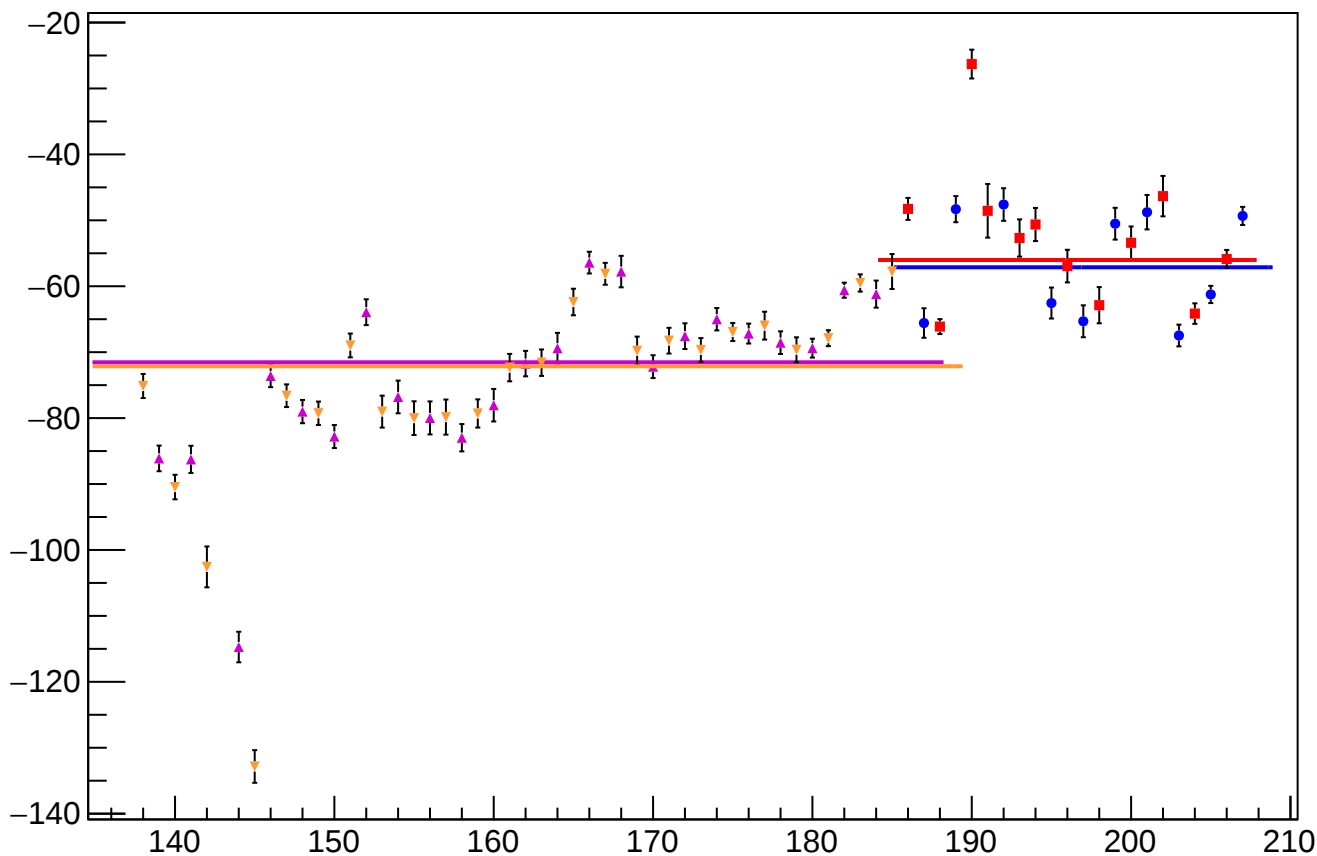
Right: -0.233 ± 0.003 χ^2/NDF : 17635.5/57

In: 0.122 ± 0.002 χ^2/NDF : 20914.4/49

Out: 0.103 ± 0.002 χ^2/NDF : 22589.9/55

All: 0.112 ± 0.001 χ^2/NDF : 43552.2/105

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



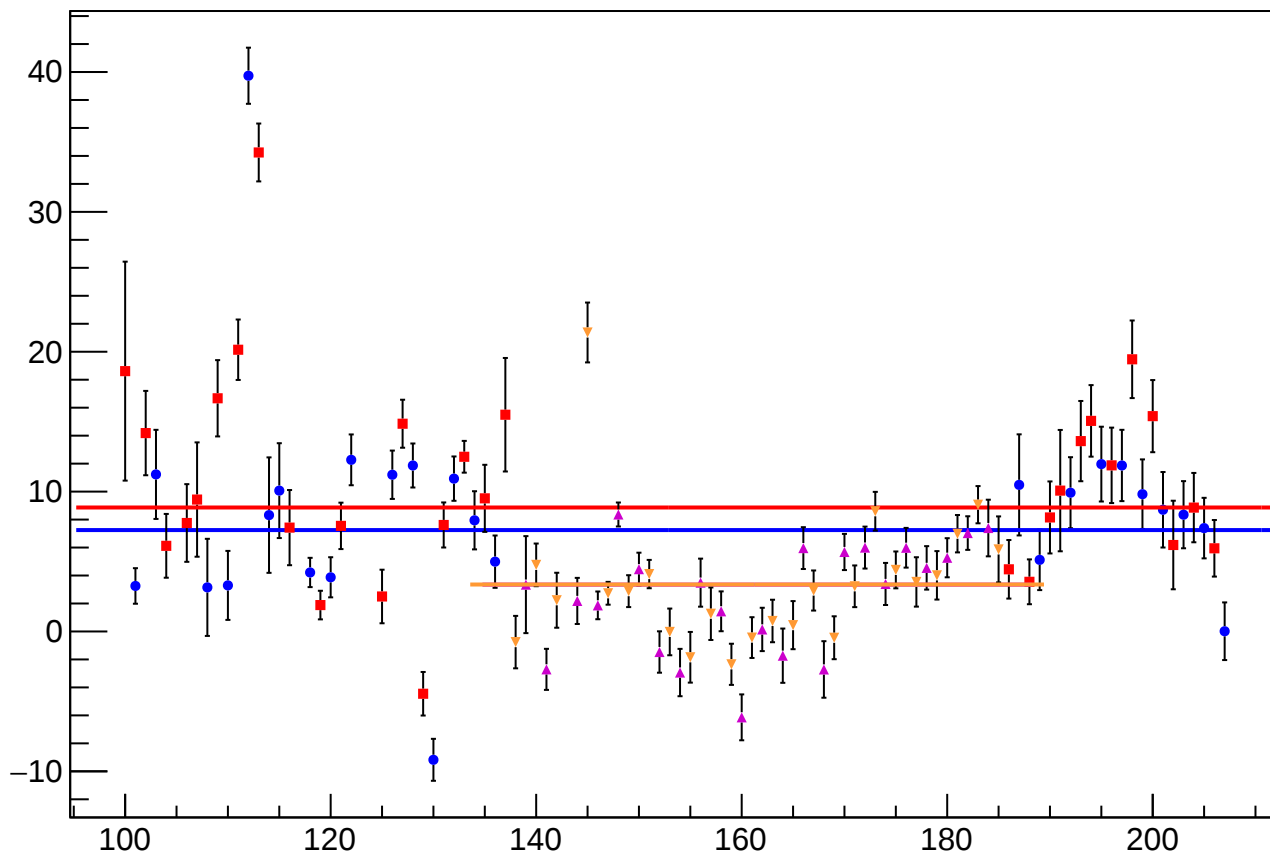
Right In: -57.126+/-0.600 χ^2/NDF : 165.0/9
 Left Out: -72.138+/-0.383 χ^2/NDF : 1121.3/23
 Right Out: -56.014+/-0.559 χ^2/NDF : 339.8/11
 Left In: -71.534+/-0.382 χ^2/NDF : 851.4/22

Left: -71.835+/-0.270 χ^2/NDF : 1974.0/46
 Right: -56.530+/-0.409 χ^2/NDF : 506.7/21

In: -67.387+/-0.322 χ^2/NDF : 1426.6/32
 Out: -66.994+/-0.316 χ^2/NDF : 2027.0/35

All: -67.187+/-0.226 χ^2/NDF : 3454.3/68

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.249 $\pm$ 0.383 χ^2/NDF : 463.7/25

Left Out: 3.357 $\pm$ 0.295 χ^2/NDF :167.7/23

Right Out: 8.864 $\pm$ 0.378 χ^2/NDF : 398.9/29

Left In: 3.349 $\pm$ 0.298 χ^2/NDF :163.5/22

Left: 3.353 $\pm$ 0.210 χ^2/NDF : 331.2/46

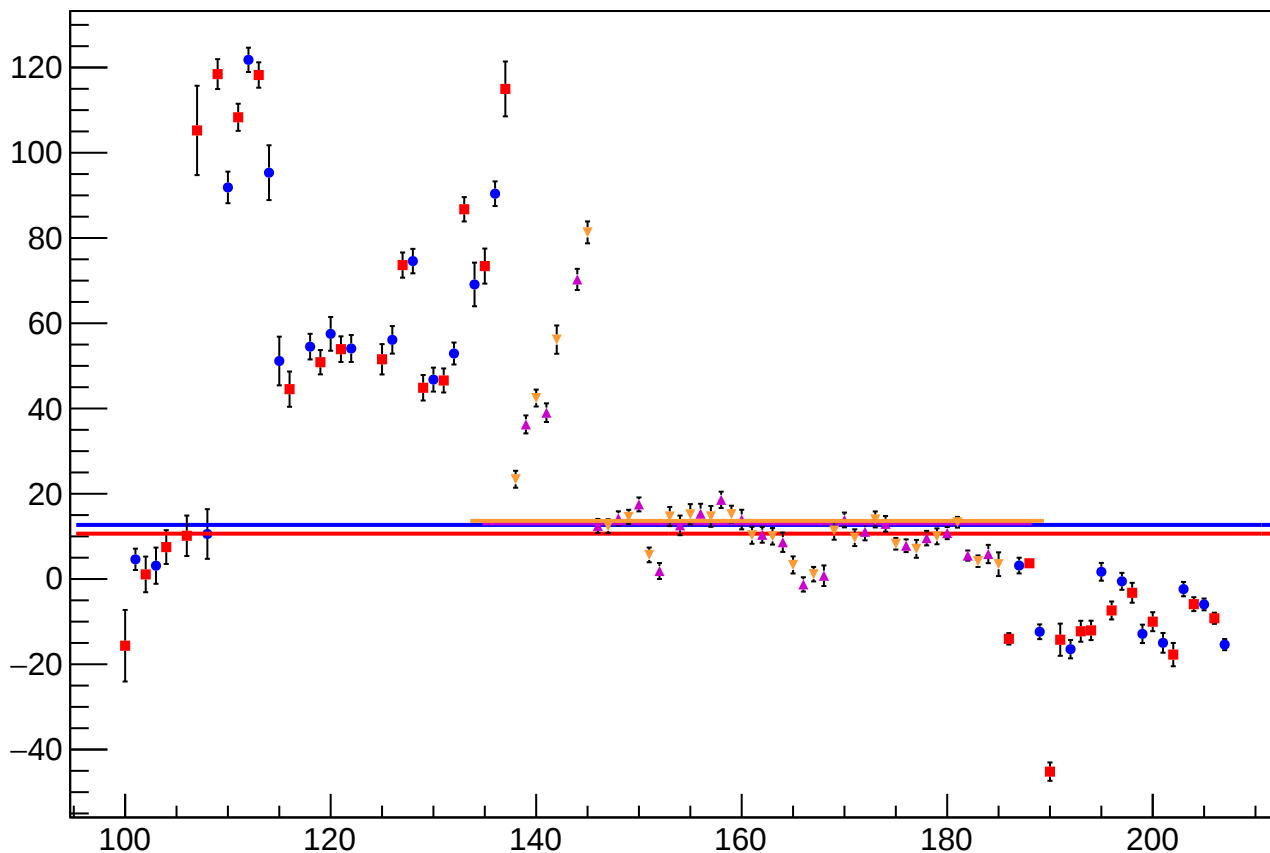
Right: 8.066 $\pm$ 0.269 χ^2/NDF : 871.6/55

In: 4.822 $\pm$ 0.235 χ^2/NDF :691.8/48

Out: 5.438 $\pm$ 0.232 χ^2/NDF :698.5/53

All: 5.133 $\pm$ 0.165 χ^2/NDF : 1393.8/102

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.692 $\pm$ 0.465 χ^2 /NDF: 6019.2/25

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 10.641 $\pm$ 0.426 χ^2 /NDF: 7787.9/29

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

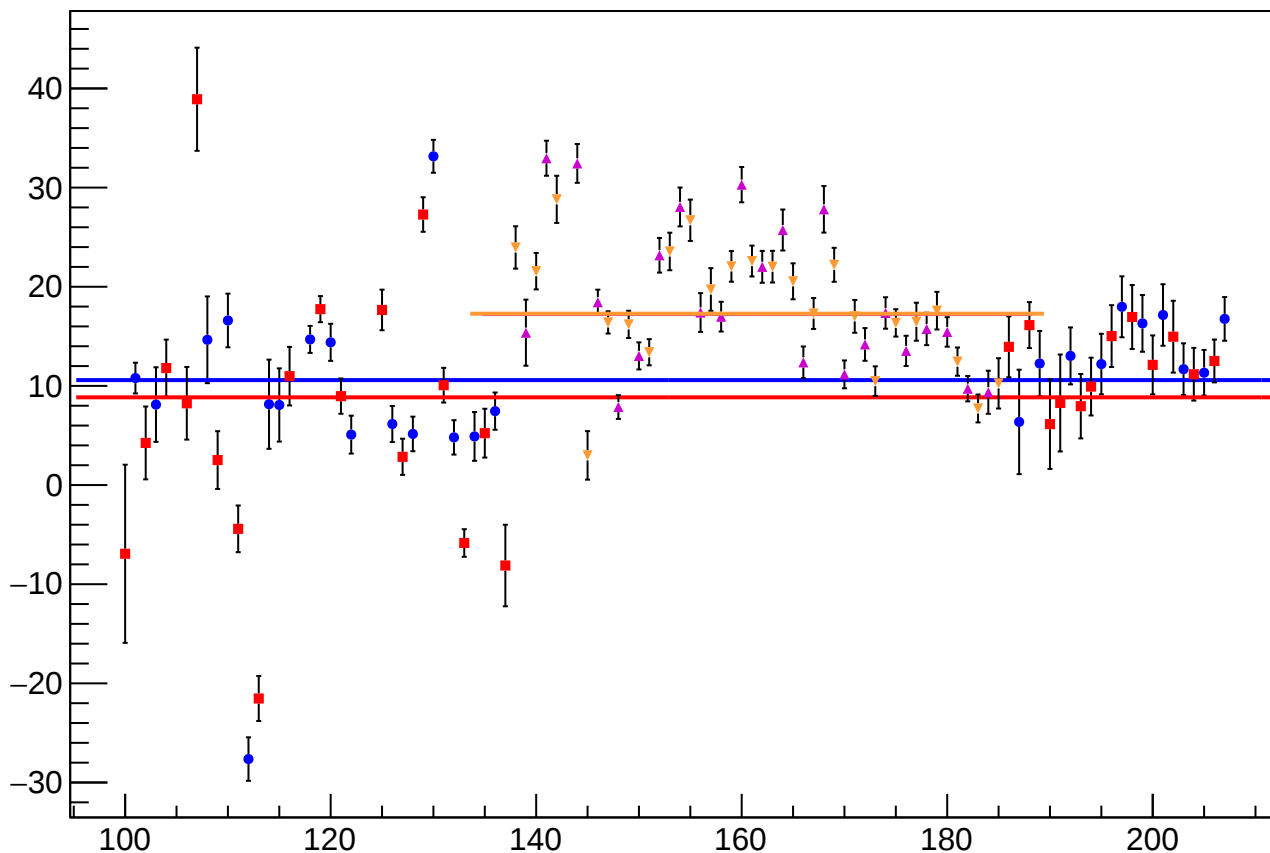
Right: 11.577 $\pm$ 0.314 χ^2 /NDF: 13817.7/55

In: 12.912 $\pm$ 0.294 χ^2 /NDF:7044.3/48

Out: 12.301 $\pm$ 0.284 χ^2 /NDF:9115.3/53

All: 12.596 $\pm$ 0.204 χ^2 /NDF: 16161.8/102

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.585 $\pm$ 0.442 χ^2 /NDF: 576.1/25

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.847 $\pm$ 0.443 χ^2 /NDF: 605.1/29

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

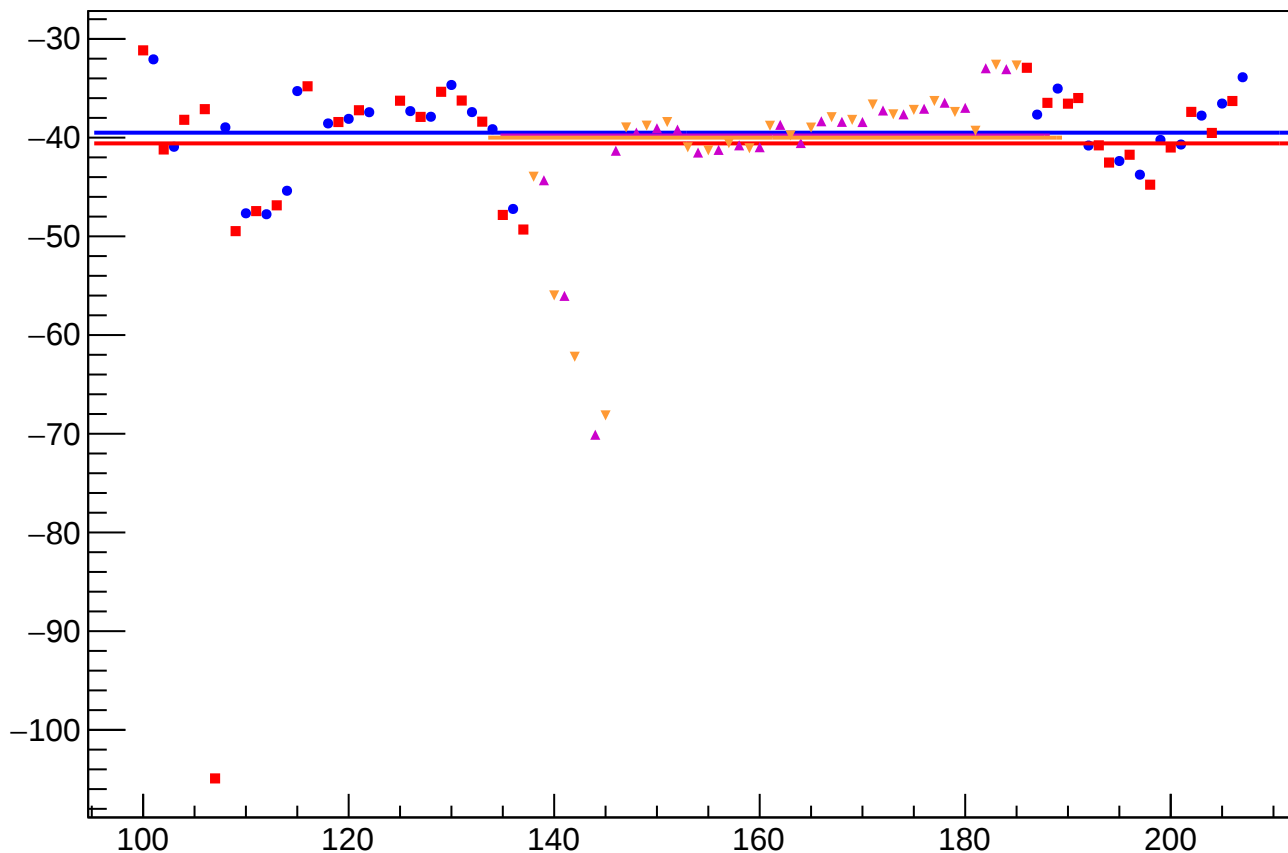
Right: 9.717 $\pm$ 0.313 χ^2 /NDF: 1188.9/55

In: 14.777 $\pm$ 0.269 χ^2 /NDF:1159.6/48

Out: 14.187 $\pm$ 0.268 χ^2 /NDF:1078.4/53

All: 14.481 $\pm$ 0.190 χ^2 /NDF: 2240.4/102

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.498 $\pm$ 0.022 χ^2 /NDF: 36322.7/25

Left Out: -39.999 $\pm$ 0.016 χ^2 /NDF:172263.8/23

Right Out: -40.584 $\pm$ 0.022 χ^2 /NDF: 106703.2/29

Left In: -39.785 $\pm$ 0.016 χ^2 /NDF:144494.5/22

Left: -39.891 $\pm$ 0.011 χ^2 /NDF: 316851.8/46

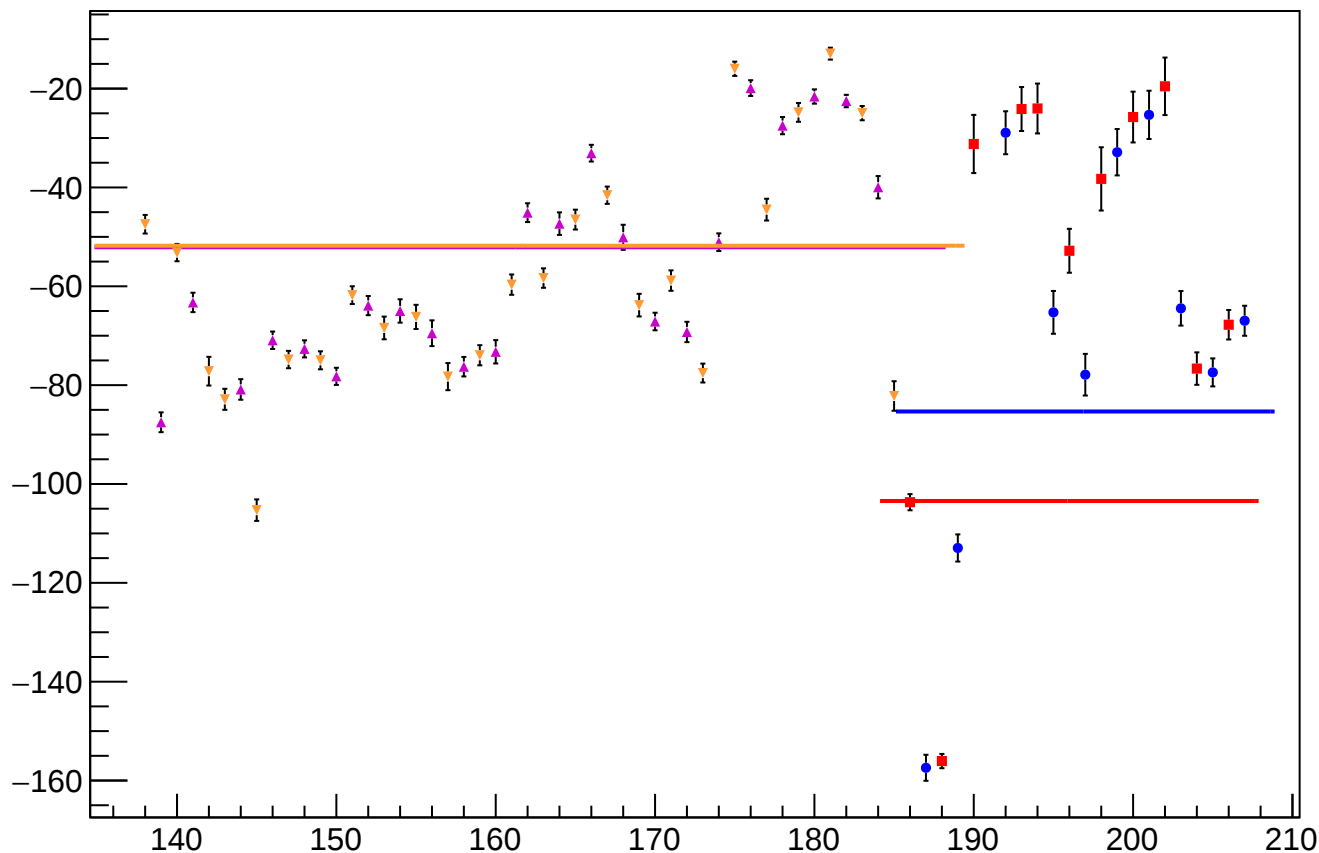
Right: -40.055 $\pm$ 0.015 χ^2 /NDF: 144258.1/55

In: -39.689 $\pm$ 0.013 χ^2 /NDF:180928.8/48

Out: -40.202 $\pm$ 0.013 χ^2 /NDF:279445.0/53

All: -39.947 $\pm$ 0.009 χ^2 /NDF: 461183.4/102

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.330 ± 1.090 $\chi^2/\text{NDF}: 1400.5/9$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -103.437 ± 0.870 $\chi^2/\text{NDF}: 2920.3/10$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

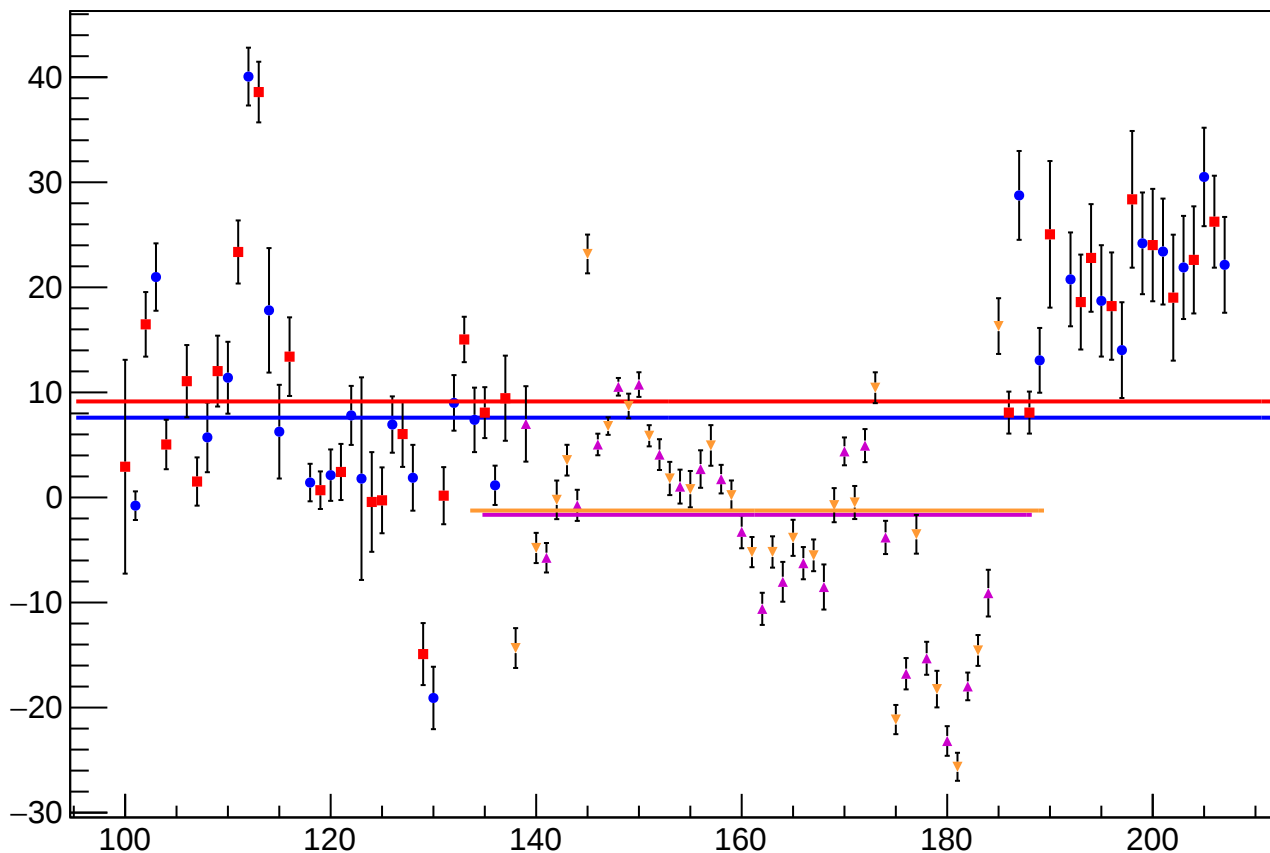
Right: -96.389 ± 0.680 $\chi^2/\text{NDF}: 4489.3/20$

In: -55.851 ± 0.366 $\chi^2/\text{NDF}: 5505.0/32$

Out: -60.153 ± 0.350 $\chi^2/\text{NDF}: 10036.6/35$

All: -58.097 ± 0.253 $\chi^2/\text{NDF}: 15613.7/68$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.595 ± 0.573 $\chi^2/\text{NDF}: 419.9/26$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.139 ± 0.561 $\chi^2/\text{NDF}: 338.5/29$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

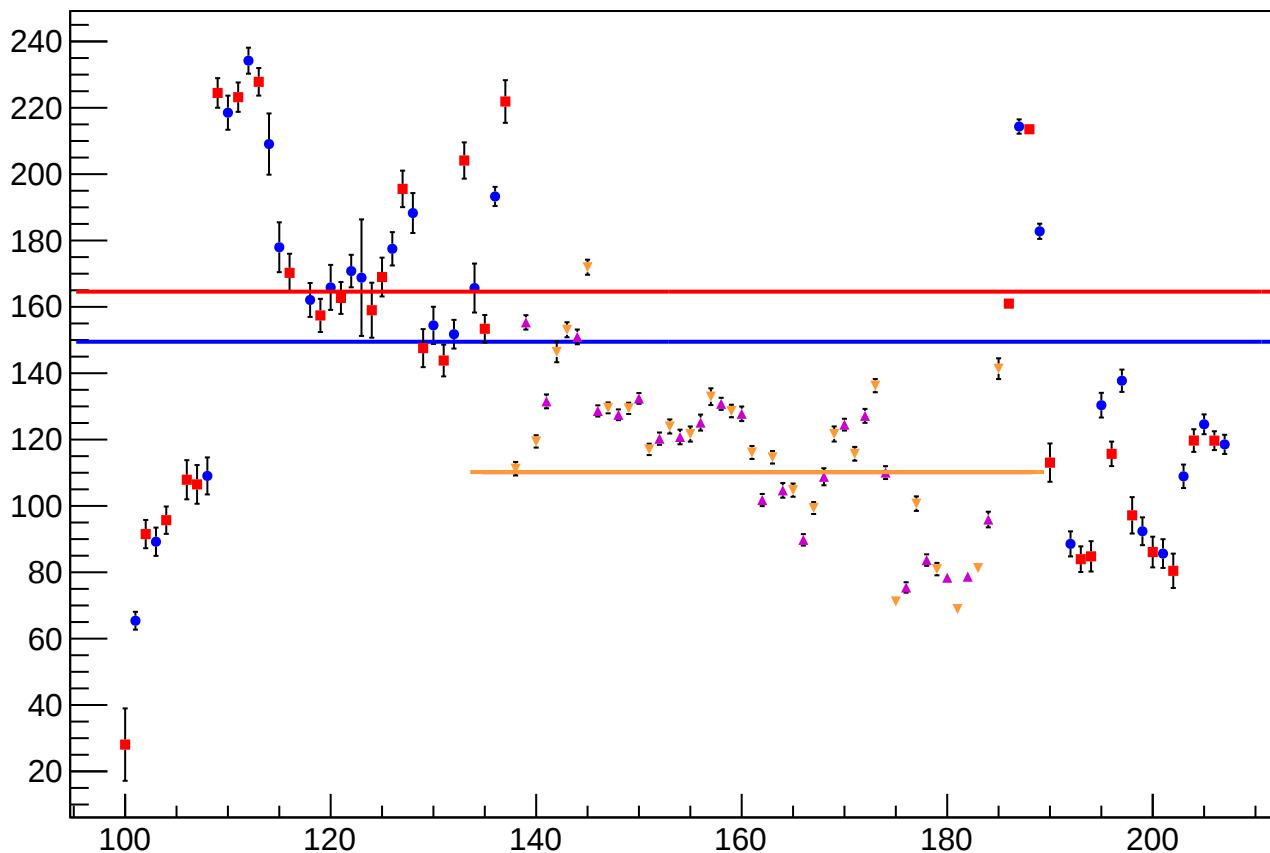
Right: 8.384 ± 0.401 $\chi^2/\text{NDF}: 762.1/56$

In: 0.339 ± 0.266 $\chi^2/\text{NDF}: 1716.2/49$

Out: 0.967 ± 0.259 $\chi^2/\text{NDF}: 1931.1/54$

All: 0.661 ± 0.185 $\chi^2/\text{NDF}: 3650.2/104$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: 110.192 +/- 0.272 χ^2/NDF : 8296.2/47

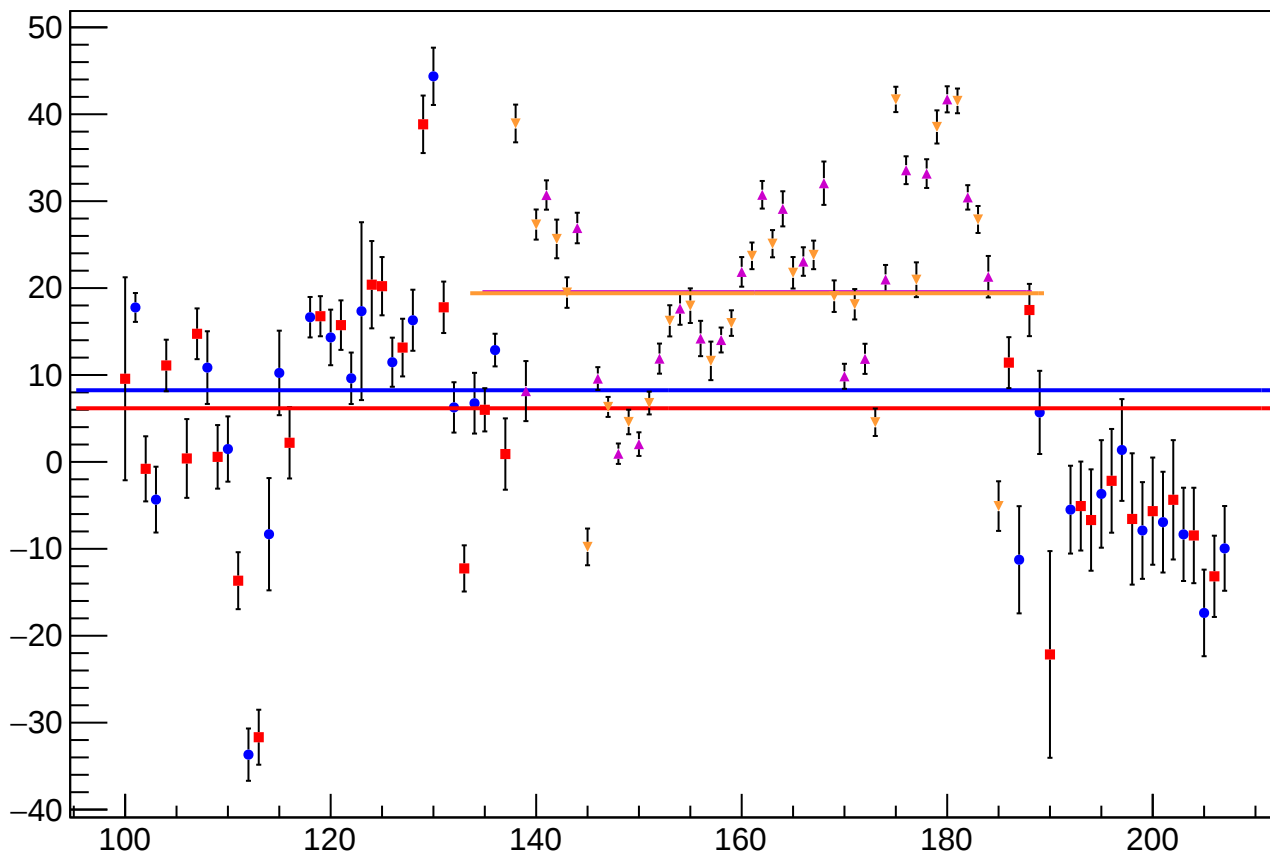
Right: 158.383 +/- 0.476 χ^2/NDF : 10267.1/56

In: 118.522 +/- 0.343 χ^2/NDF : 10311.5/49

Out: 125.150 +/- 0.325 χ^2/NDF : 15777.6/54

All: 122.007 +/- 0.236 χ^2/NDF : 26286.0/104

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.245 ± 0.664 $\chi^2/\text{NDF}: 487.4/26$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 6.172 ± 0.665 $\chi^2/\text{NDF}: 492.4/29$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

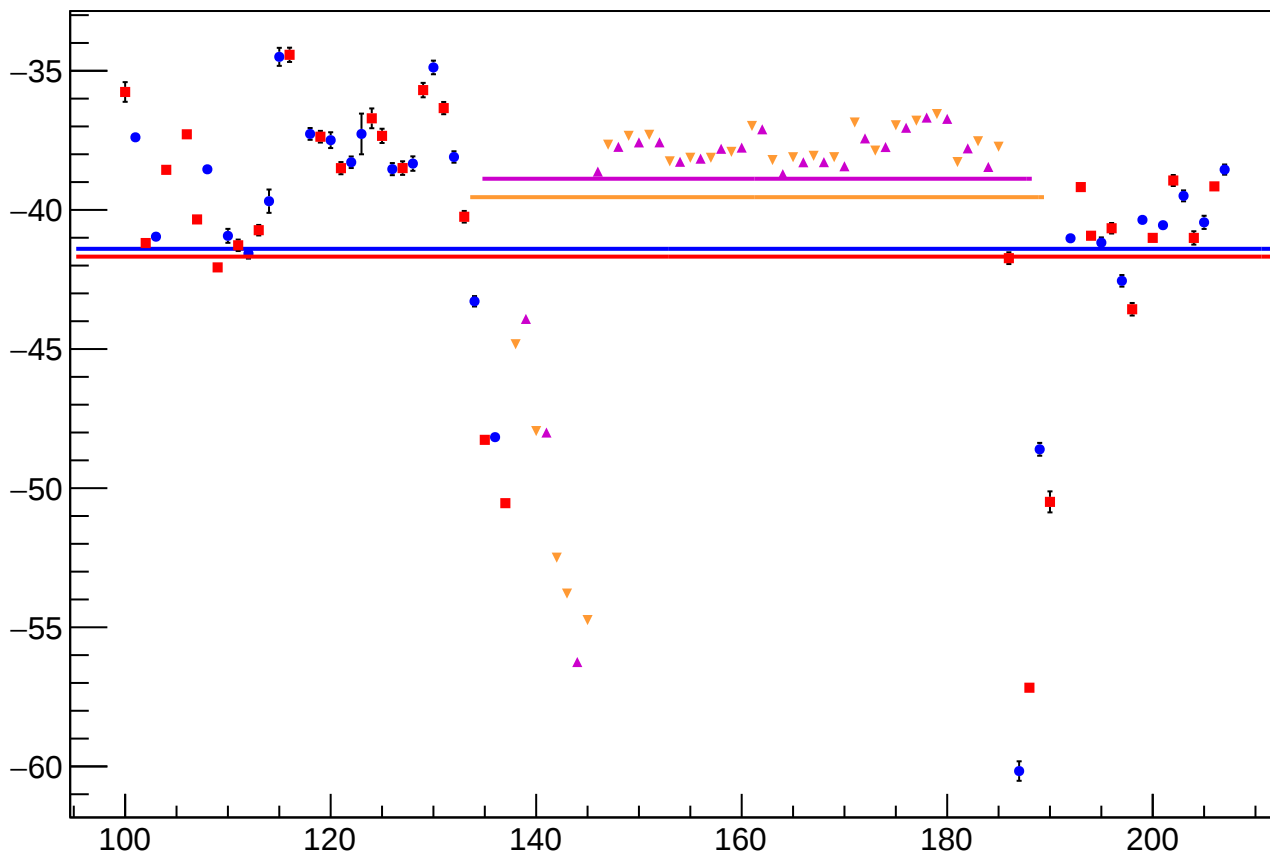
Right: 7.211 ± 0.470 $\chi^2/\text{NDF}: 984.6/56$

In: 17.158 ± 0.304 $\chi^2/\text{NDF}: 1896.9/49$

Out: 16.734 ± 0.299 $\chi^2/\text{NDF}: 2261.4/54$

All: 16.942 ± 0.213 $\chi^2/\text{NDF}: 4159.3/104$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.398 ± 0.033 $\chi^2/\text{NDF}: 16817.8/26$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.679 ± 0.032 $\chi^2/\text{NDF}: 23069.1/29$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

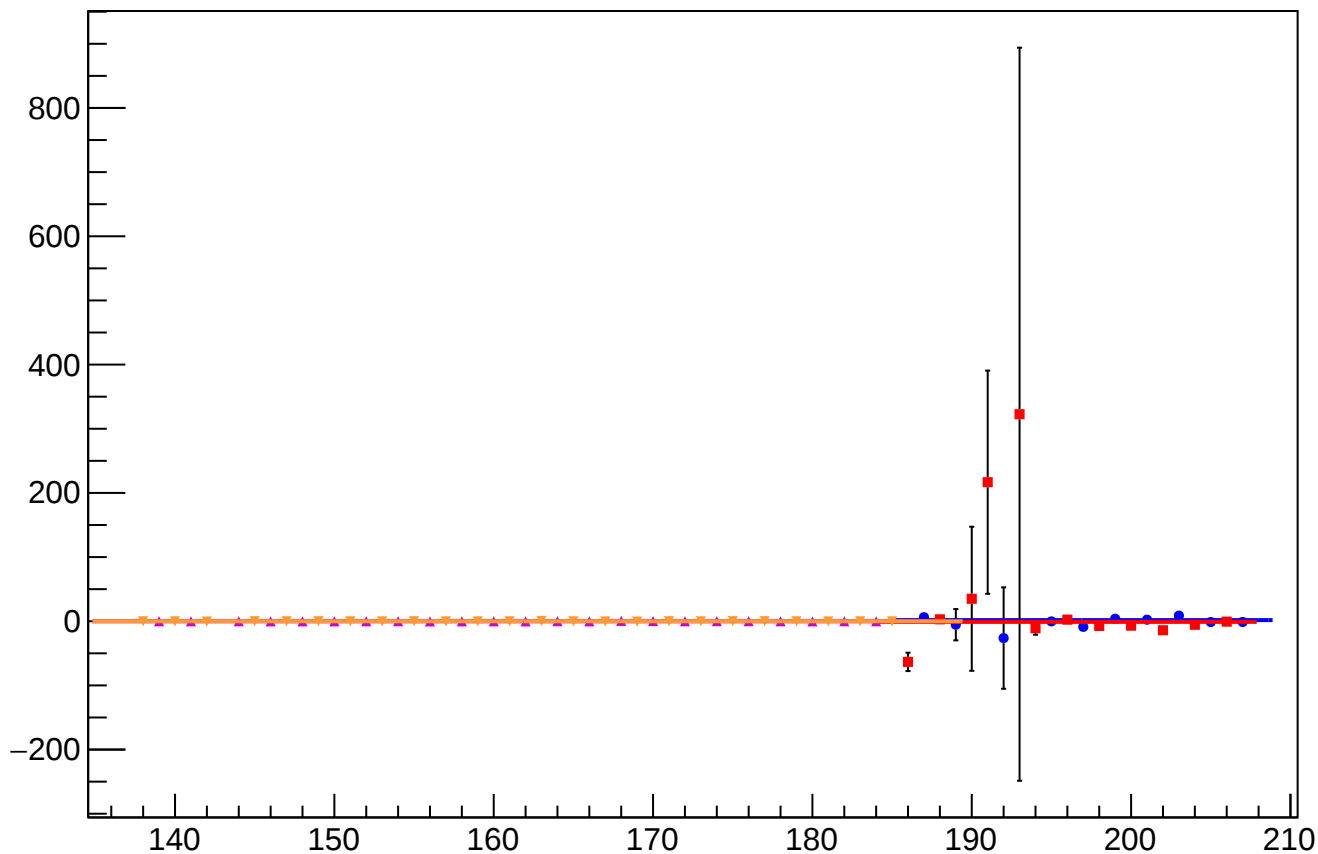
Right: -41.541 ± 0.023 $\chi^2/\text{NDF}: 39924.3/56$

In: -39.360 ± 0.014 $\chi^2/\text{NDF}: 75035.6/49$

Out: -39.954 ± 0.014 $\chi^2/\text{NDF}: 118654.7/54$

All: -39.660 ± 0.010 $\chi^2/\text{NDF}: 194565.2/104$

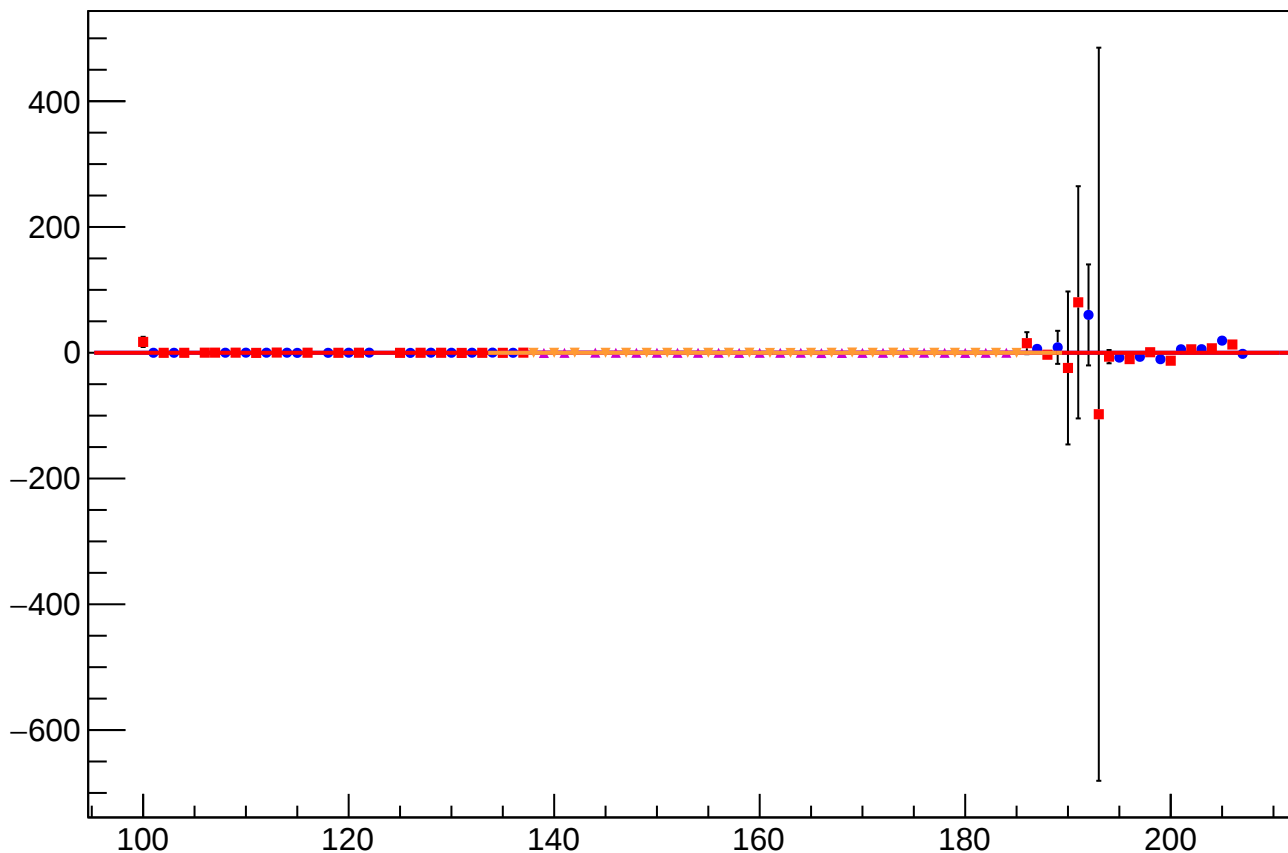
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.762 ± 1.537 $\chi^2/\text{NDF}: 11.2/9$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.995 ± 1.422 $\chi^2/\text{NDF}: 32.5/11$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.276 ± 1.044 $\chi^2/\text{NDF}: 45.5/21$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 45.9/32$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 72.6/35$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 122.6/68$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 31.9/25

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.1/29

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

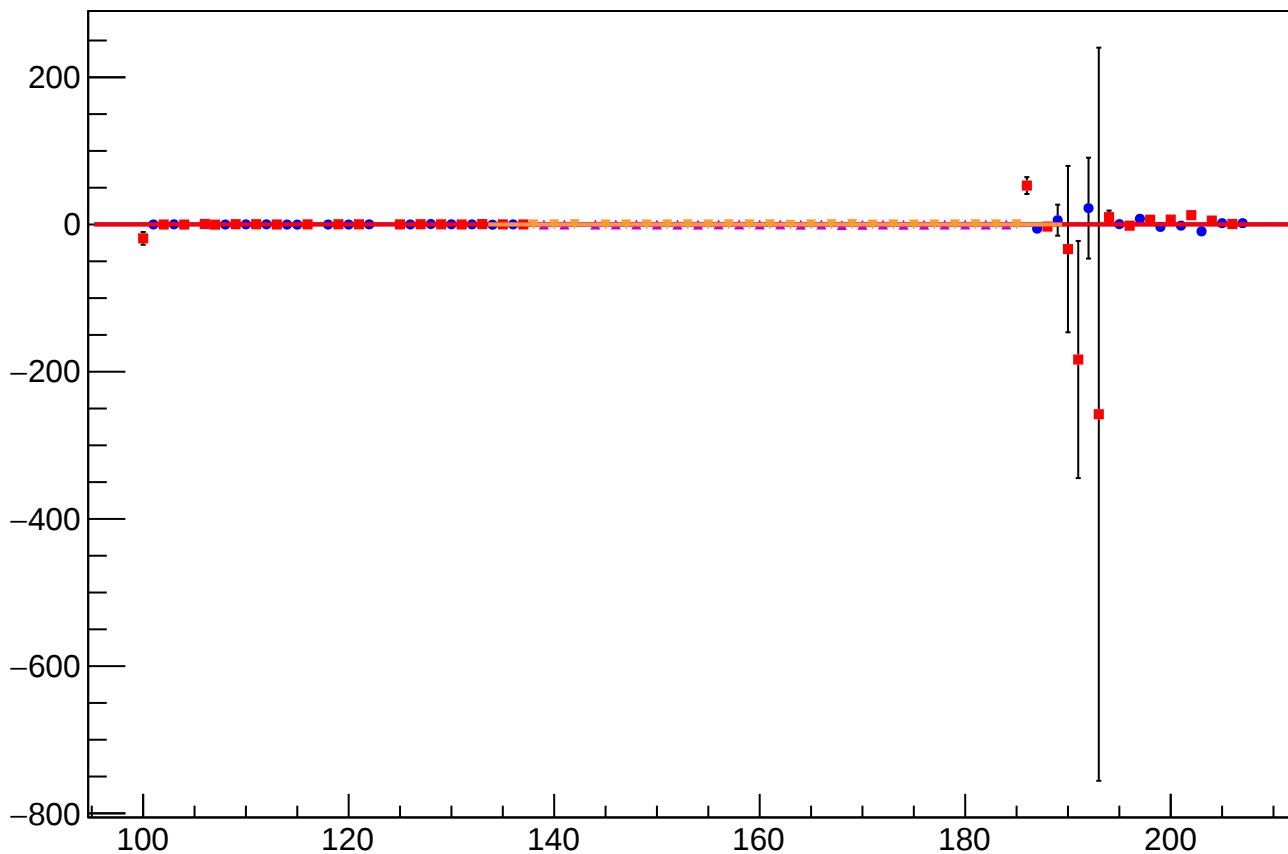
Right: -0.025 ± 0.020 χ^2/NDF : 74.4/55

In: -0.038 ± 0.015 χ^2/NDF : 65.9/48

Out: -0.073 ± 0.015 χ^2/NDF : 67.7/53

All: -0.056 ± 0.011 χ^2/NDF : 136.3/102

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 27.2/25

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 57.0/29

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

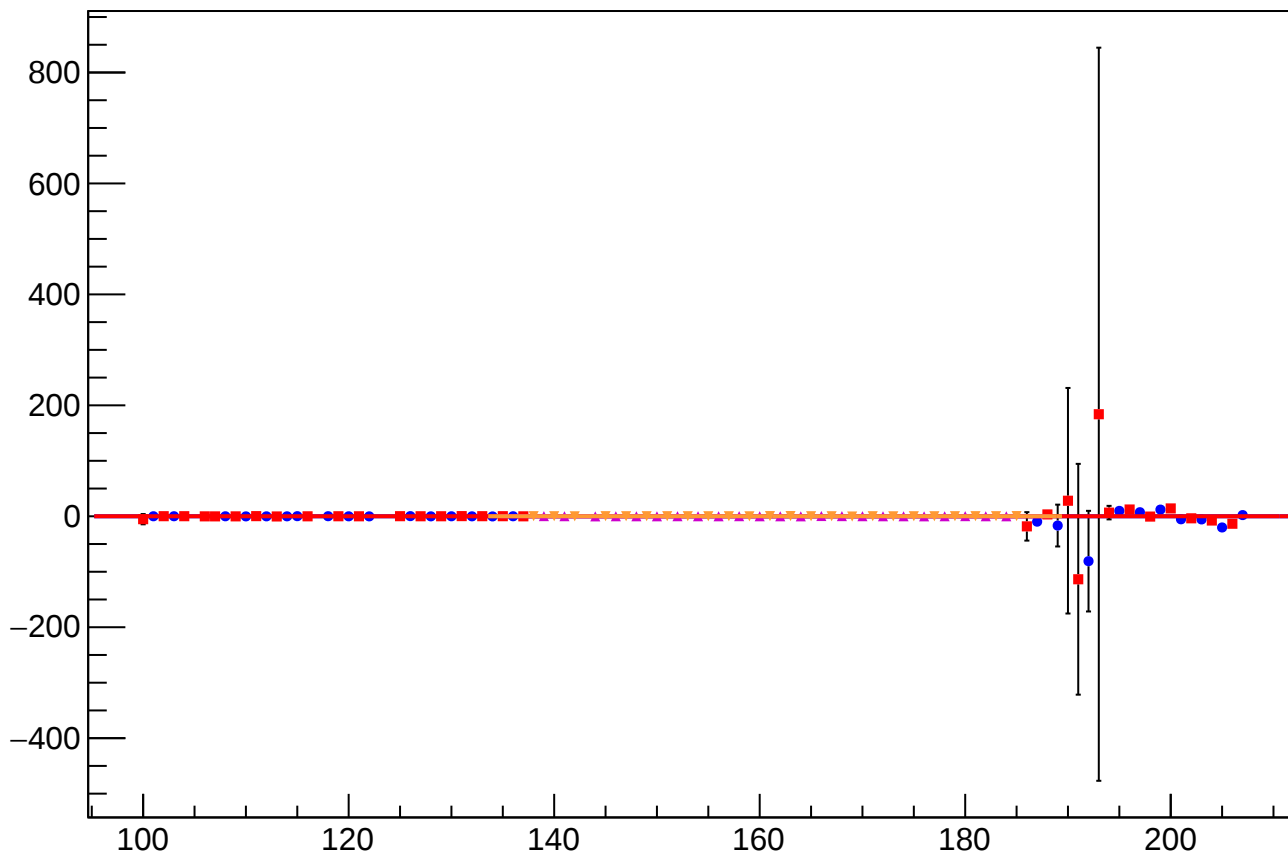
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 84.9/55

In: 0.043 $\pm$ 0.020 χ^2 /NDF:69.8/48

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:102.4/53

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 176.6/102

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 33.5/25

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.6/29

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

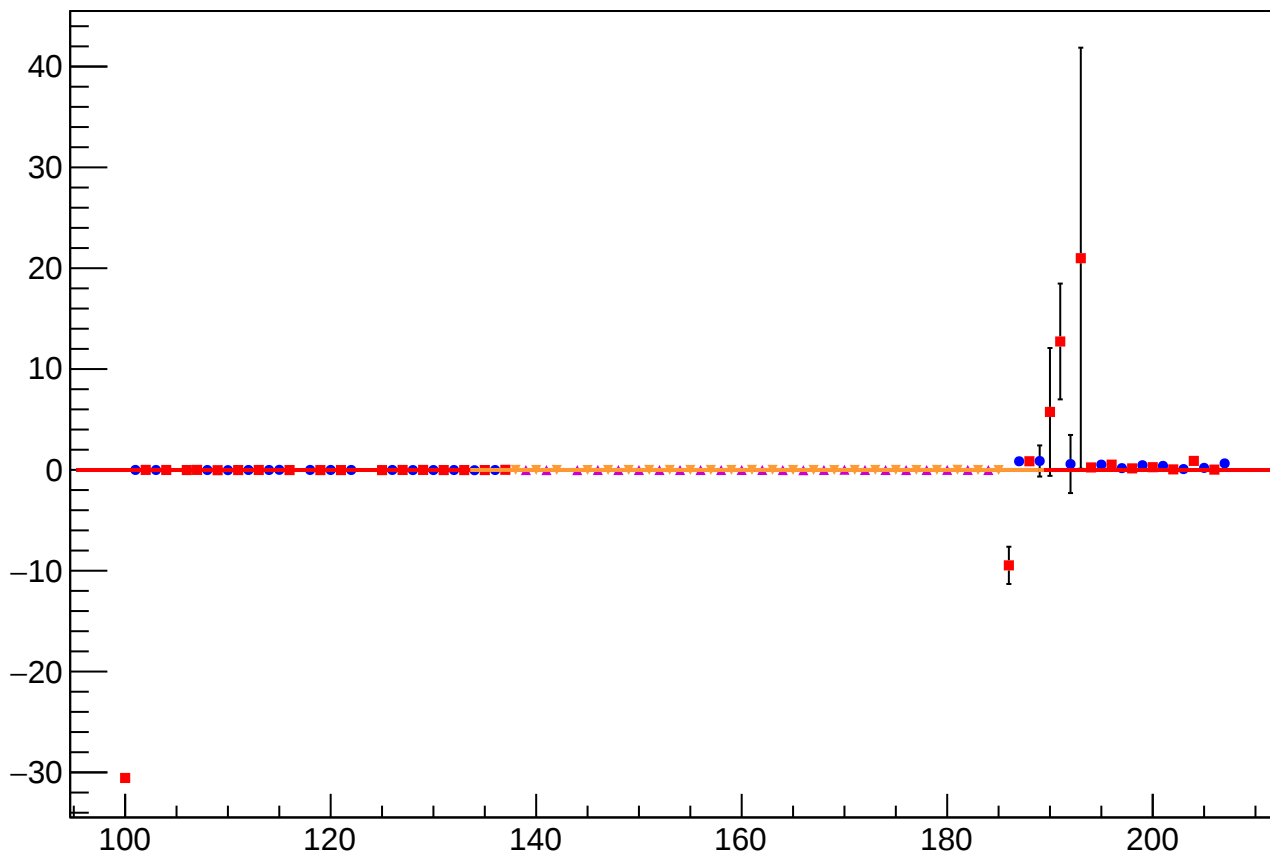
Right: 0.024 ± 0.024 χ^2/NDF : 69.9/55

In: 0.049 ± 0.017 χ^2/NDF : 68.7/48

Out: 0.093 ± 0.017 χ^2/NDF : 65.6/53

All: 0.071 ± 0.012 χ^2/NDF : 137.7/102

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 41.6/25

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.3/29

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

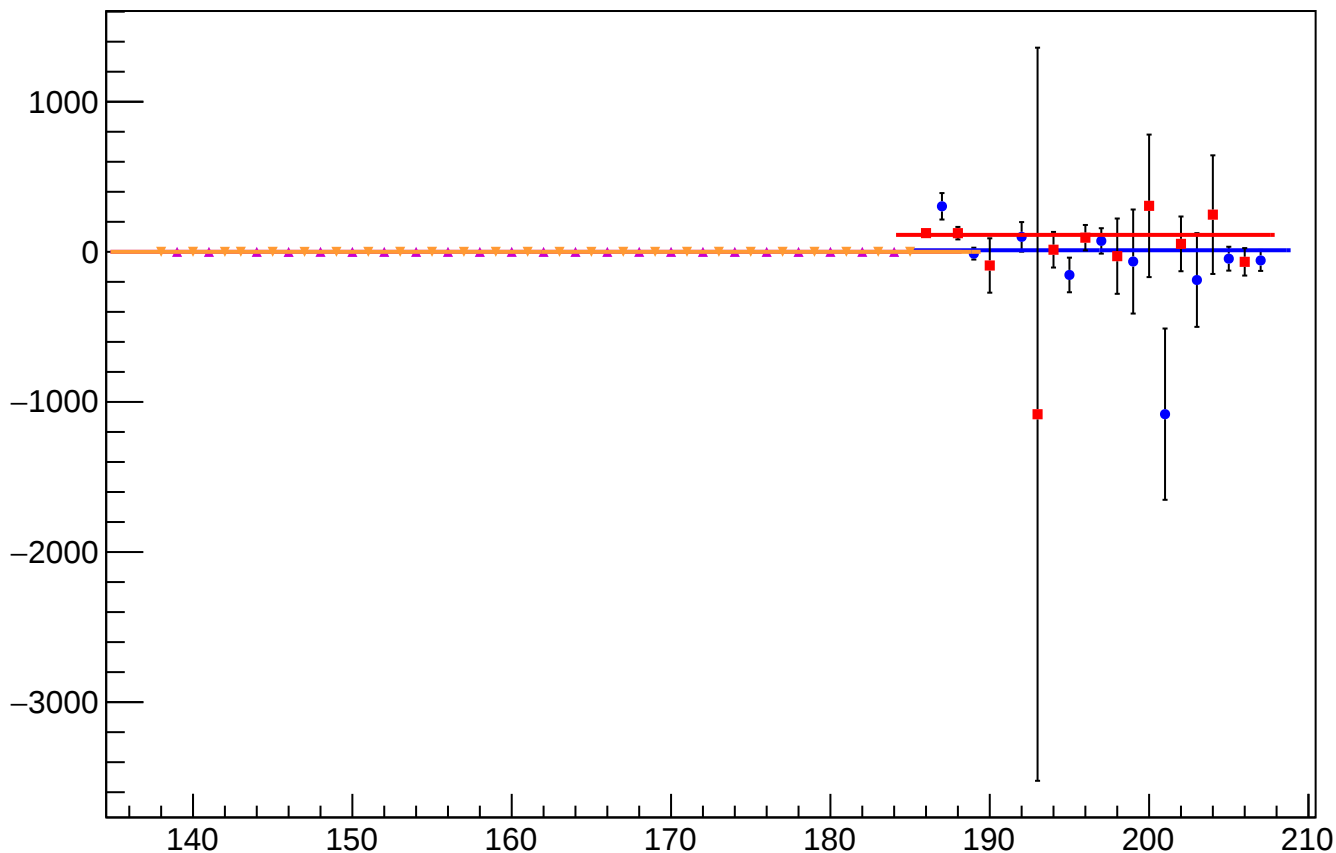
Right: -0.012 ± 0.001 χ^2/NDF : 11995.9/55

In: -0.009 ± 0.001 χ^2/NDF : 84.6/48

Out: -0.009 ± 0.001 χ^2/NDF : 11988.2/53

All: -0.009 ± 0.001 χ^2/NDF : 12073.0/102

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.540 $\pm$ 26.056 χ^2/NDF : 20.3/9

Left Out: 0.017 $\pm$ 0.027 χ^2/NDF :30.9/24

Right Out: 112.948 $\pm$ 16.185 χ^2/NDF : 7.3/10

Left In: 0.002 $\pm$ 0.028 χ^2/NDF :29.0/22

Left: 0.010 $\pm$ 0.019 χ^2/NDF : 60.1/47

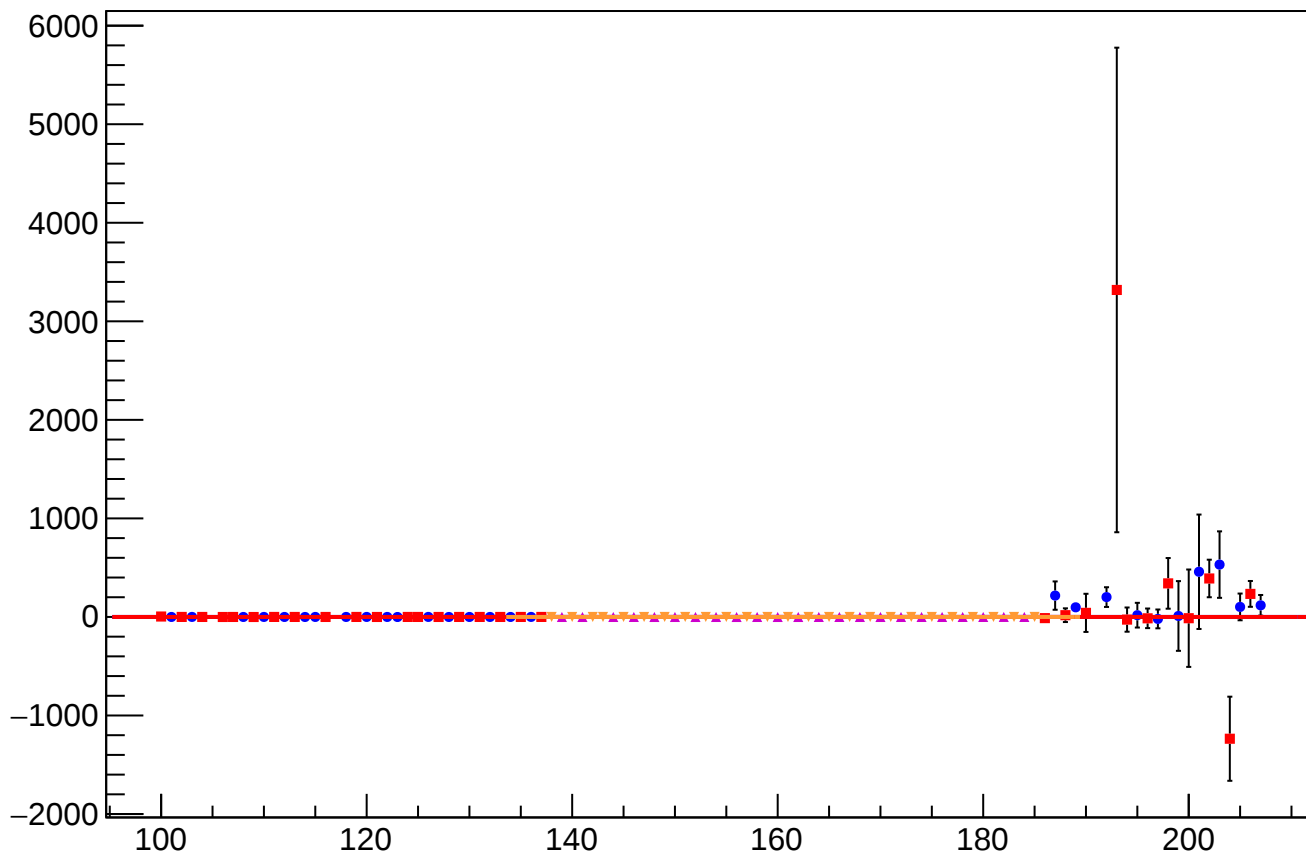
Right: 84.437 $\pm$ 13.749 χ^2/NDF : 38.7/20

In: 0.002 $\pm$ 0.028 χ^2/NDF :49.5/32

Out: 0.018 $\pm$ 0.027 χ^2/NDF :86.9/35

All: 0.010 $\pm$ 0.019 χ^2/NDF : 136.5/68

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 39.0/26$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 38.3/29$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

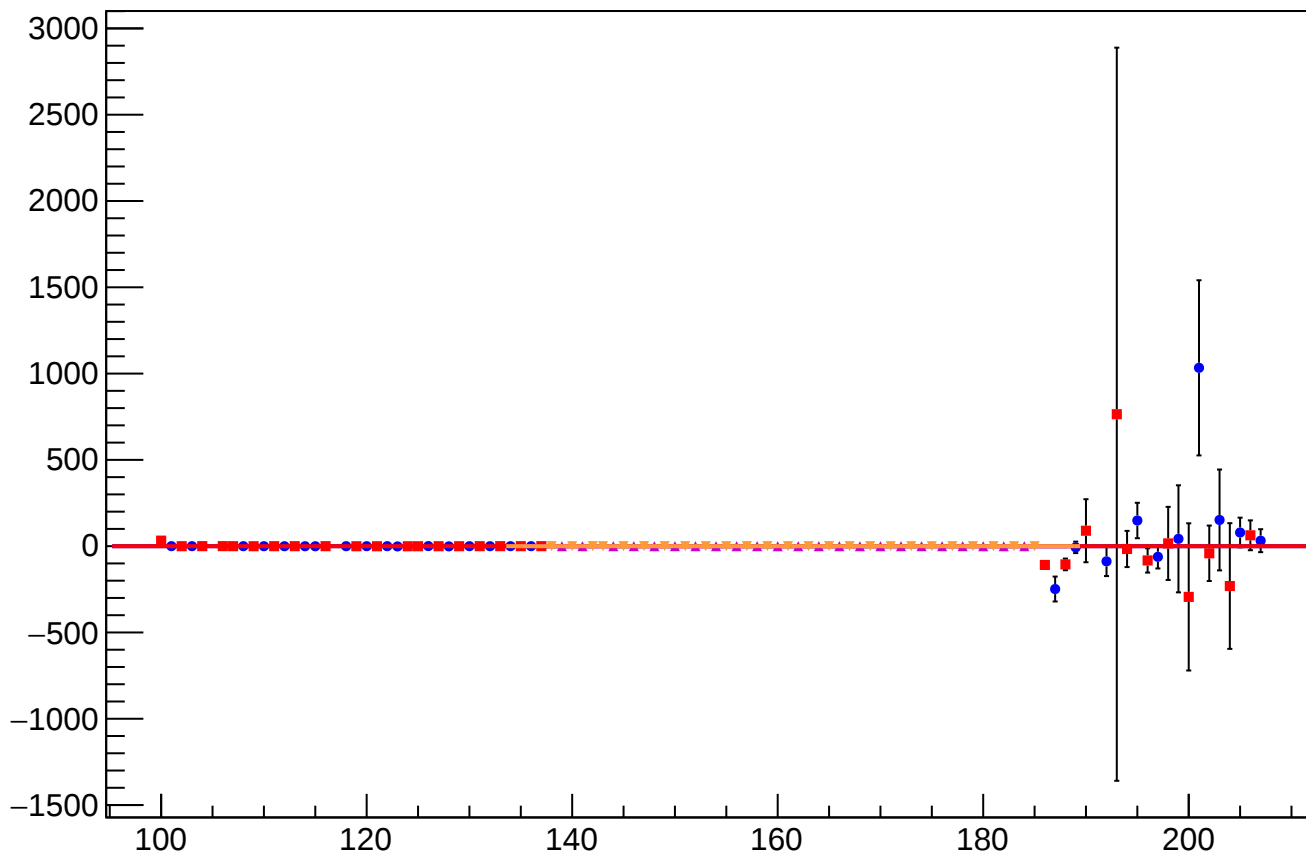
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 80.6/56$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 89.3/49$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 64.7/54$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 154.4/104$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 46.1/26$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 79.1/29$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

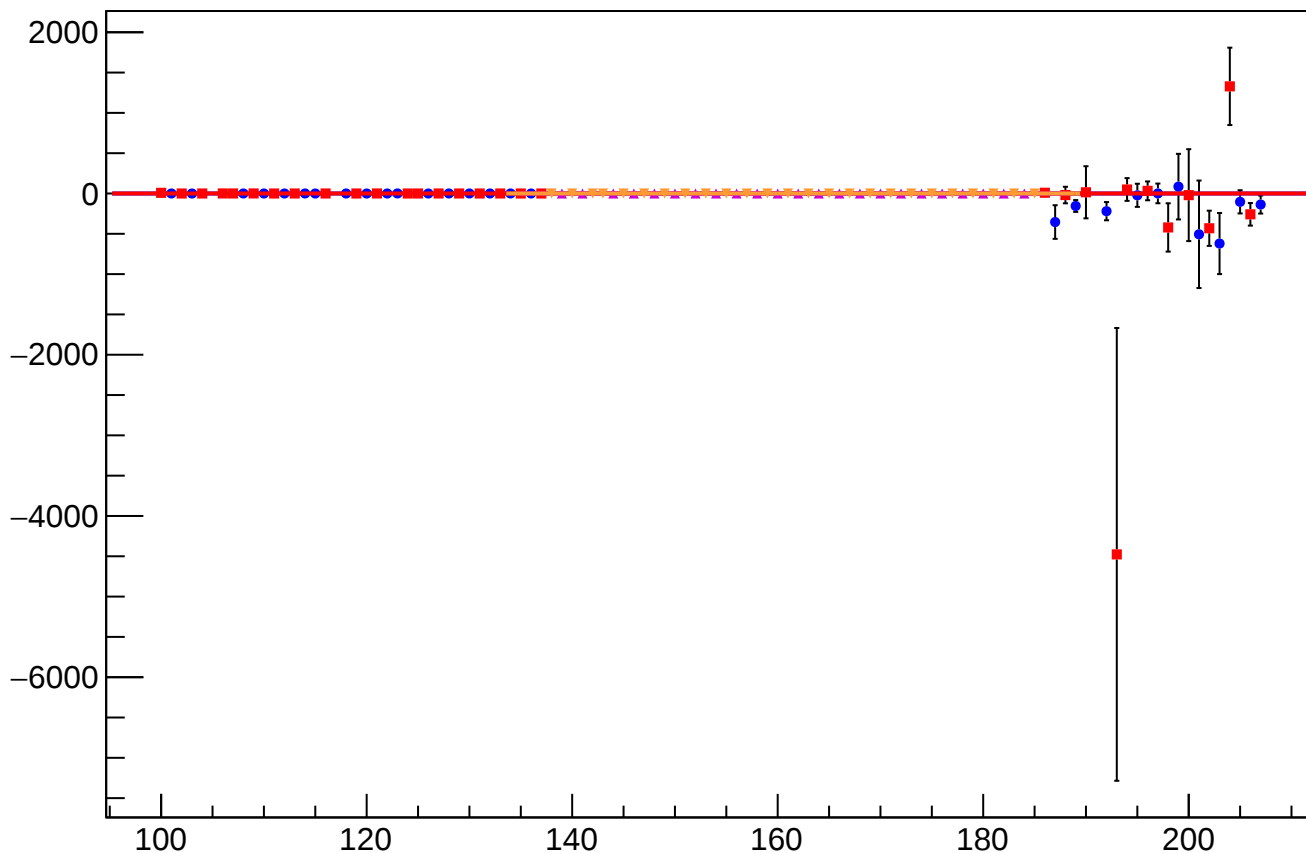
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 125.3/56$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 76.6/49$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 112.0/54$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 188.6/104$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 38.1/26

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF: 24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 36.6/29

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF: 51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

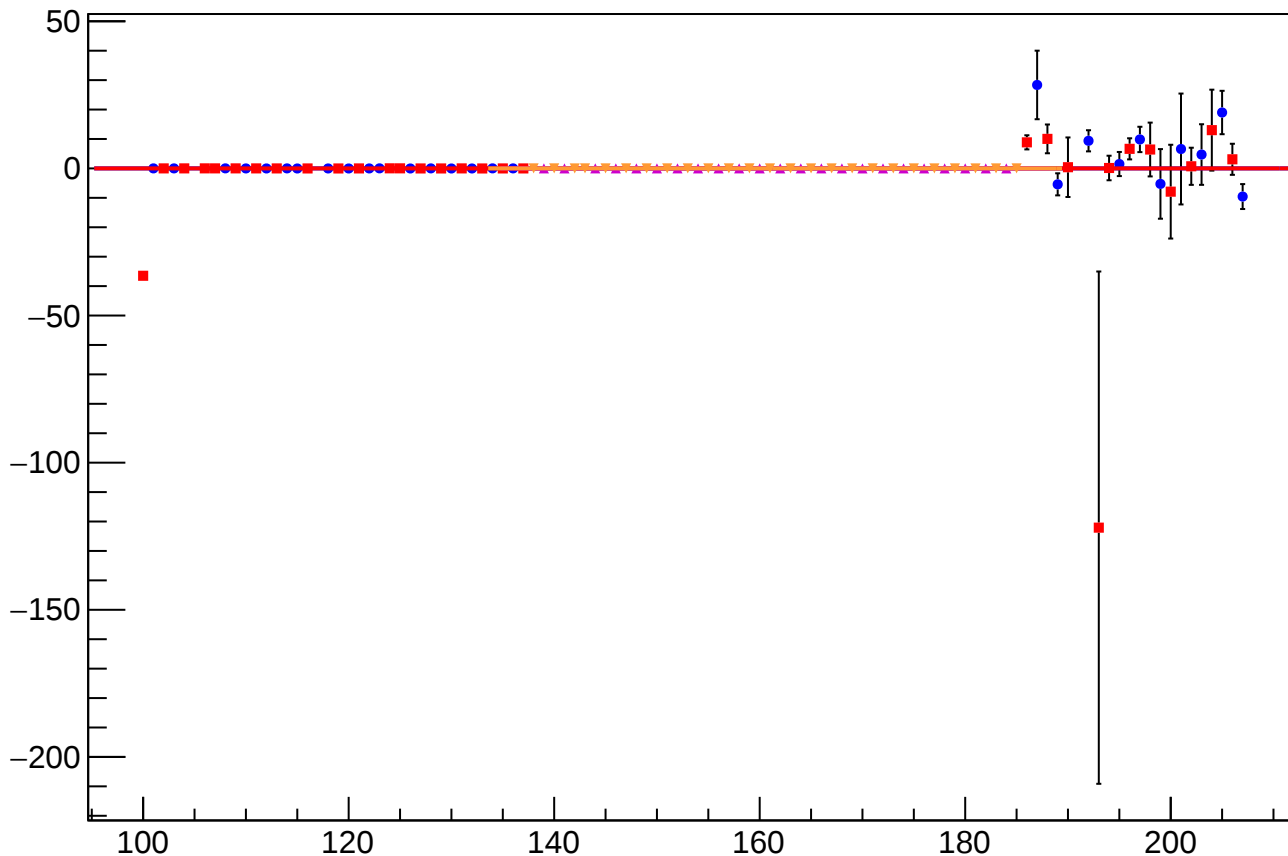
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 78.8/56

In: 0.056 $\pm$ 0.021 χ^2 /NDF: 90.9/49

Out: 0.081 $\pm$ 0.021 χ^2 /NDF: 63.7/54

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 155.4/104

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 62.9/26

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10474.3/29

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

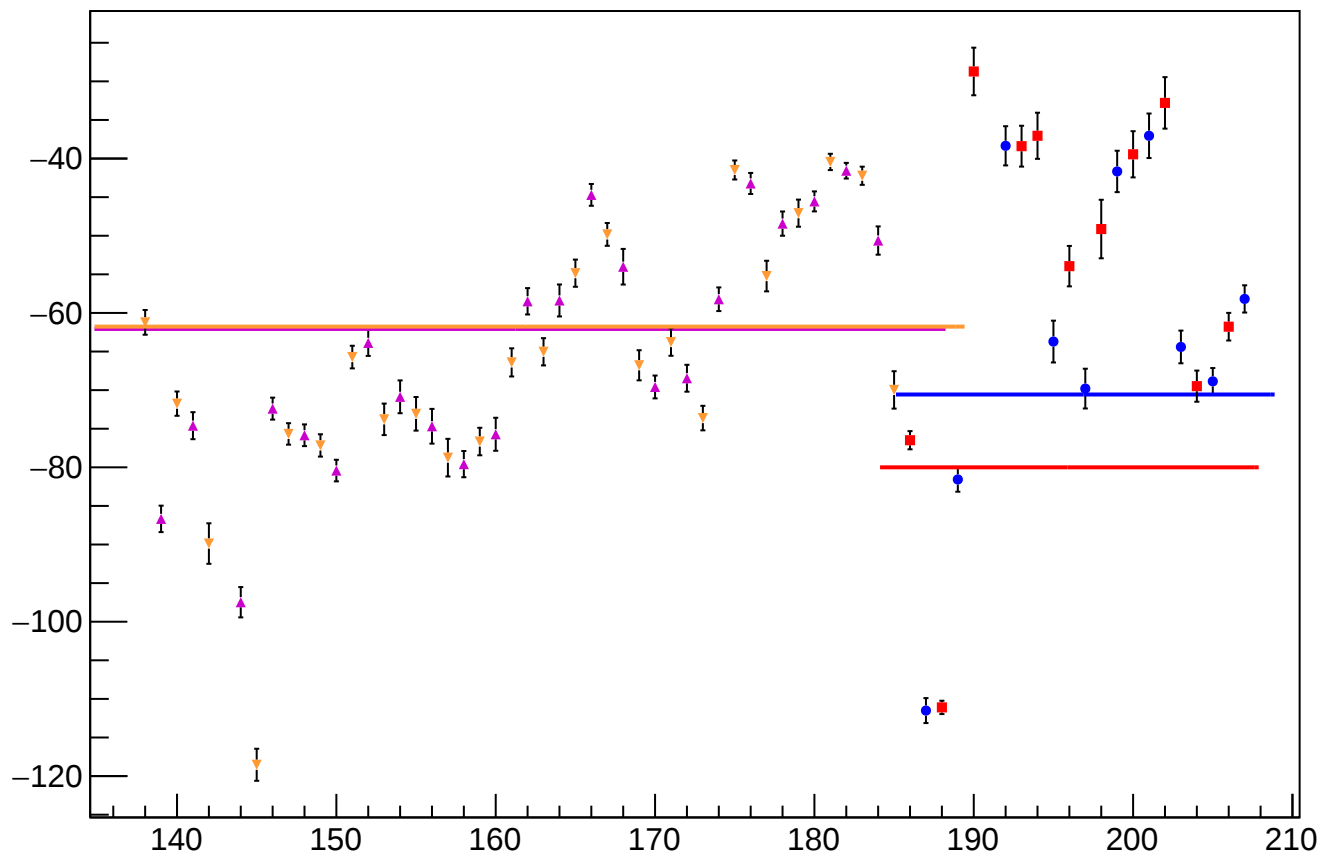
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10537.3/56

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 87.4/49

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10509.6/54

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10597.1/104

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -70.566 ± 0.651 χ^2/NDF : 1166.2/9

Left Out: -61.771 ± 0.334 χ^2/NDF : 2504.9/23

Right Out: -80.000 ± 0.543 χ^2/NDF : 2714.9/10

Left In: -62.073 ± 0.332 χ^2/NDF : 2192.0/22

Left: -61.923 ± 0.236 χ^2/NDF : 4697.3/46

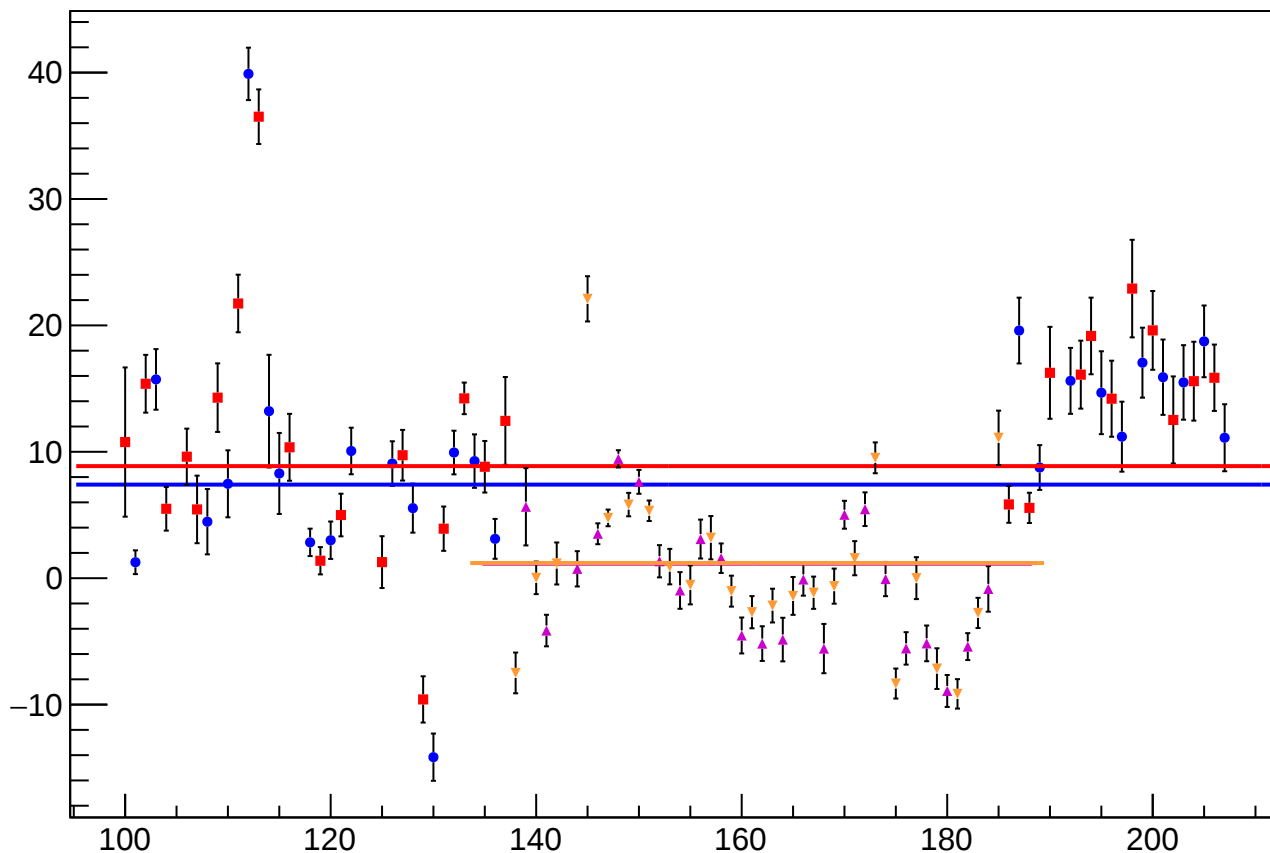
Right: -76.130 ± 0.417 χ^2/NDF : 4005.0/20

In: -63.830 ± 0.296 χ^2/NDF : 3493.3/32

Out: -66.775 ± 0.284 χ^2/NDF : 6038.1/34

All: -65.361 ± 0.205 χ^2/NDF : 9582.8/67

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.404 ± 0.381 $\chi^2/\text{NDF}: 562.2/25$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.866 ± 0.379 $\chi^2/\text{NDF}: 486.3/28$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

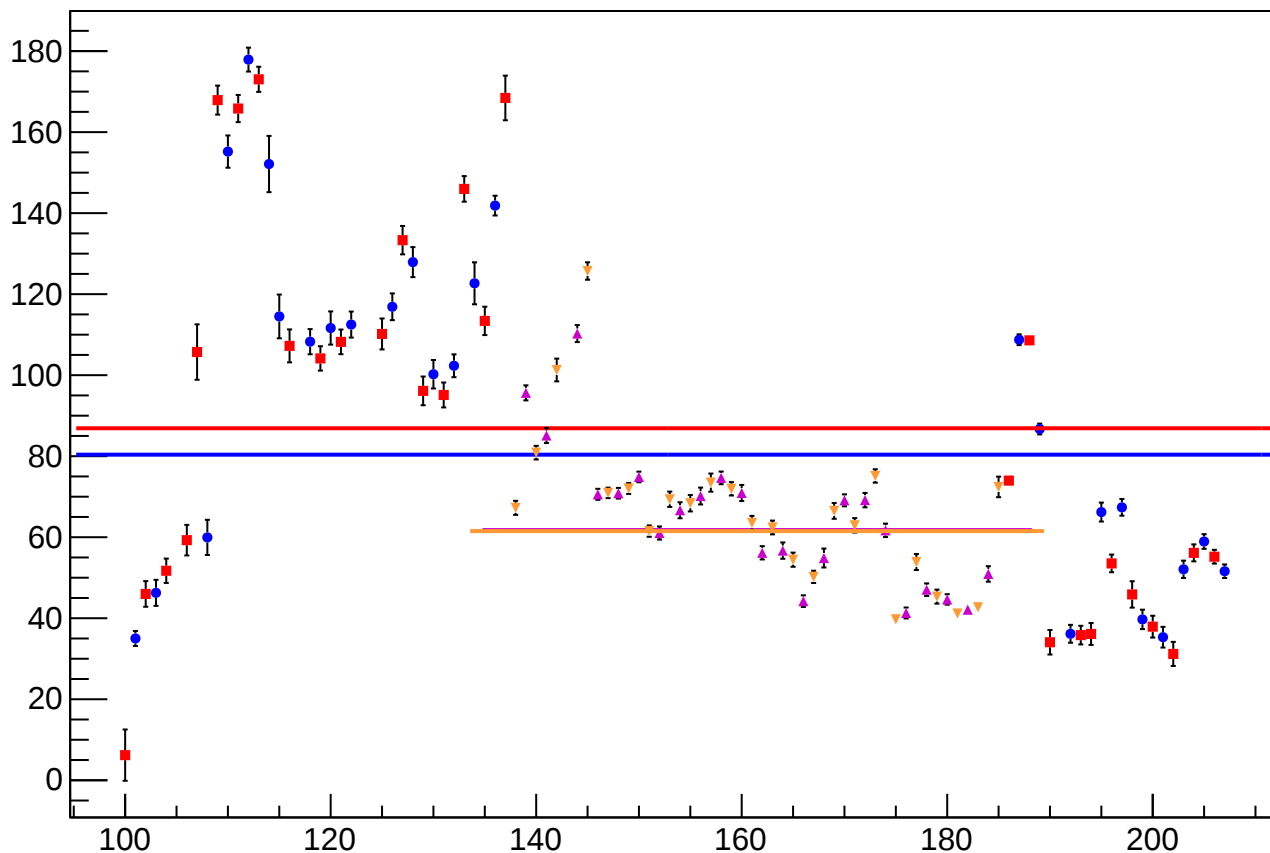
Right: 8.140 ± 0.269 $\chi^2/\text{NDF}: 1056.0/54$

In: 3.083 ± 0.212 $\chi^2/\text{NDF}: 1211.1/48$

Out: 3.560 ± 0.210 $\chi^2/\text{NDF}: 1296.5/52$

All: 3.324 ± 0.149 $\chi^2/\text{NDF}: 2510.2/101$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 80.376 $\pm$ 0.473 χ^2 /NDF: 5810.9/25

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 86.898 $\pm$ 0.402 χ^2 /NDF: 7271.0/28

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF: 2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

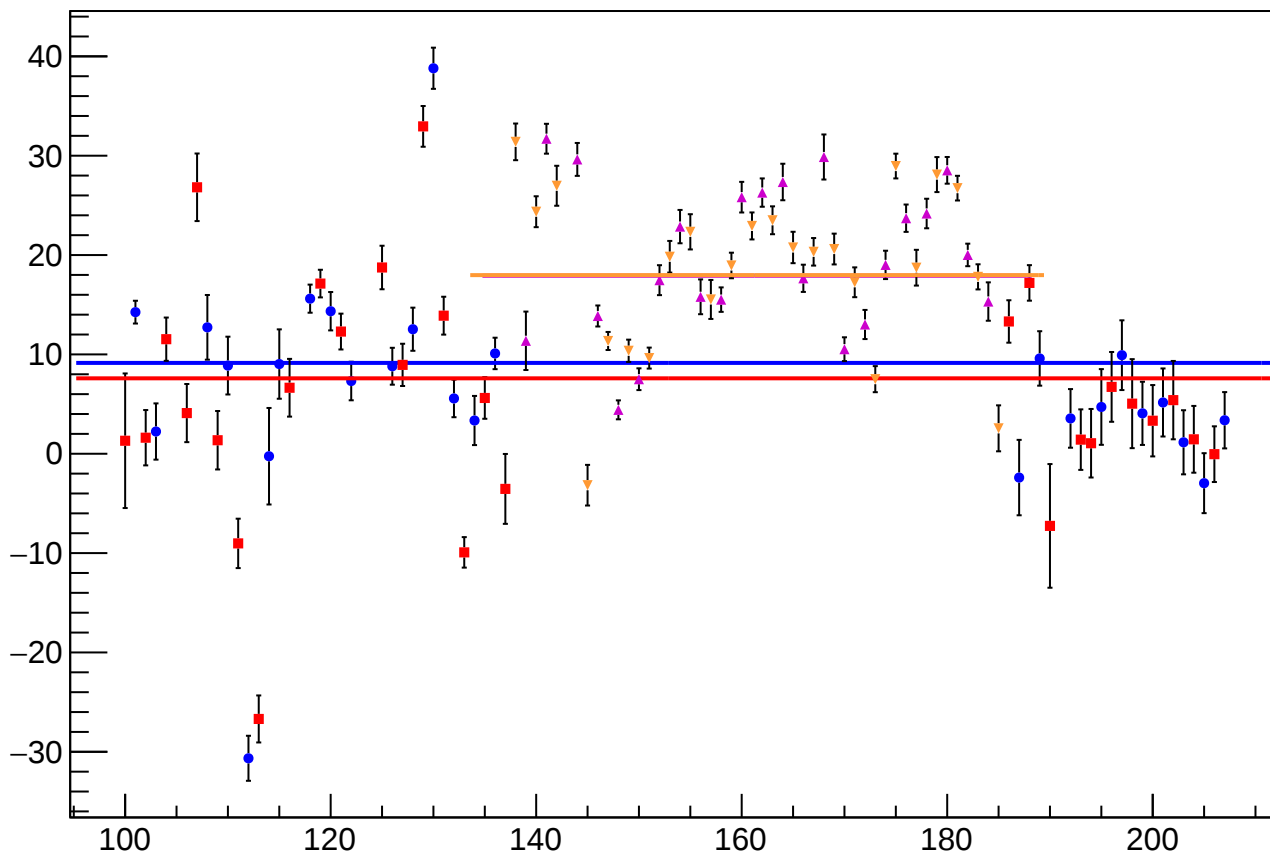
Right: 84.164 $\pm$ 0.306 χ^2 /NDF: 13192.3/54

In: 67.854 $\pm$ 0.271 χ^2 /NDF: 9270.6/48

Out: 71.822 $\pm$ 0.256 χ^2 /NDF: 12246.9/52

All: 69.947 $\pm$ 0.186 χ^2 /NDF: 21630.9/101

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.144 $\pm$ 0.447 χ^2 /NDF: 629.4/25

Left Out: 17.980 $\pm$ 0.291 χ^2 /NDF: 674.4/23

Right Out: 7.591 $\pm$ 0.453 χ^2 /NDF: 748.9/28

Left In: 17.916 $\pm$ 0.292 χ^2 /NDF: 726.5/22

Left: 17.948 $\pm$ 0.206 χ^2 /NDF: 1400.9/46

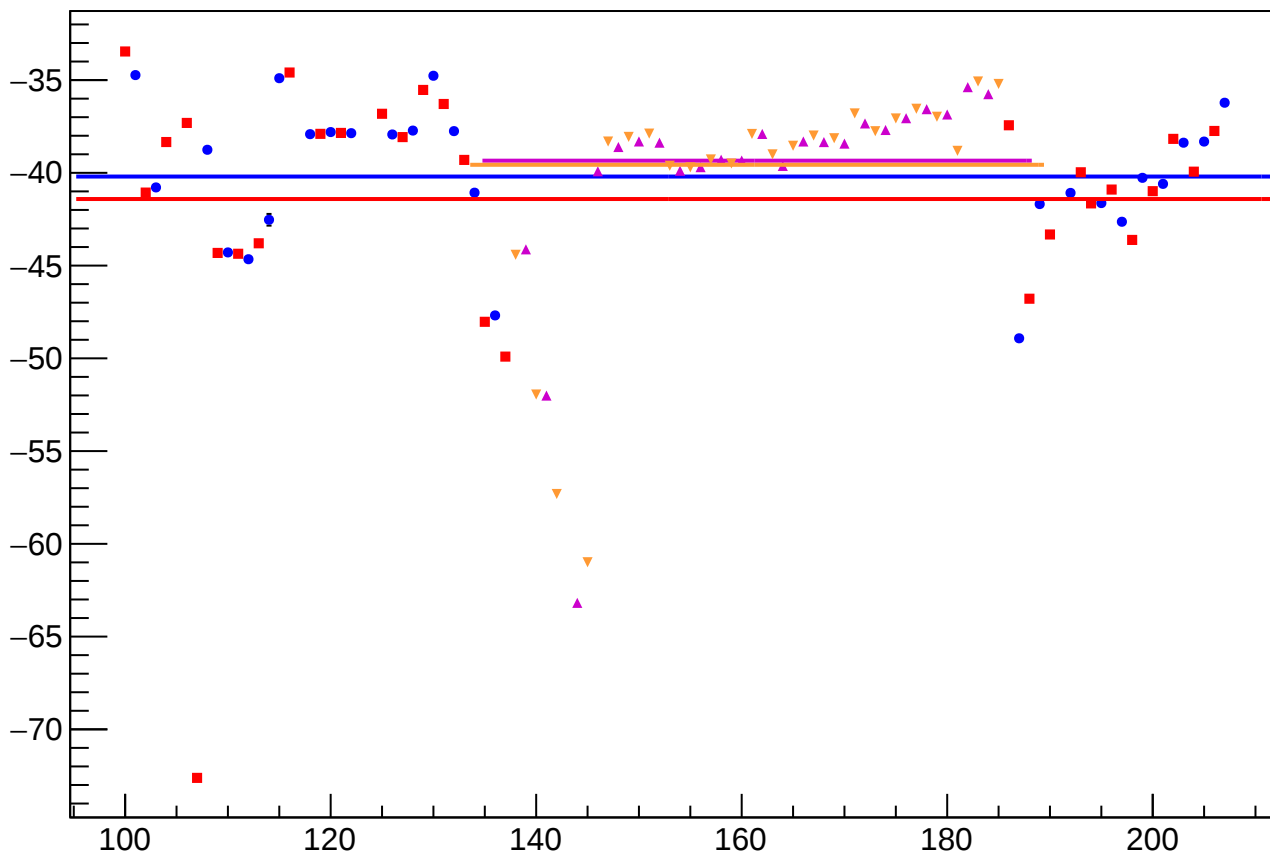
Right: 8.378 $\pm$ 0.318 χ^2 /NDF: 1384.2/54

In: 15.286 $\pm$ 0.245 χ^2 /NDF: 1625.8/48

Out: 14.945 $\pm$ 0.245 χ^2 /NDF: 1795.9/52

All: 15.116 $\pm$ 0.173 χ^2 /NDF: 3422.7/101

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.200 ± 0.022 χ^2/NDF : 29336.6/25

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.411 ± 0.022 χ^2/NDF : 68553.3/28

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

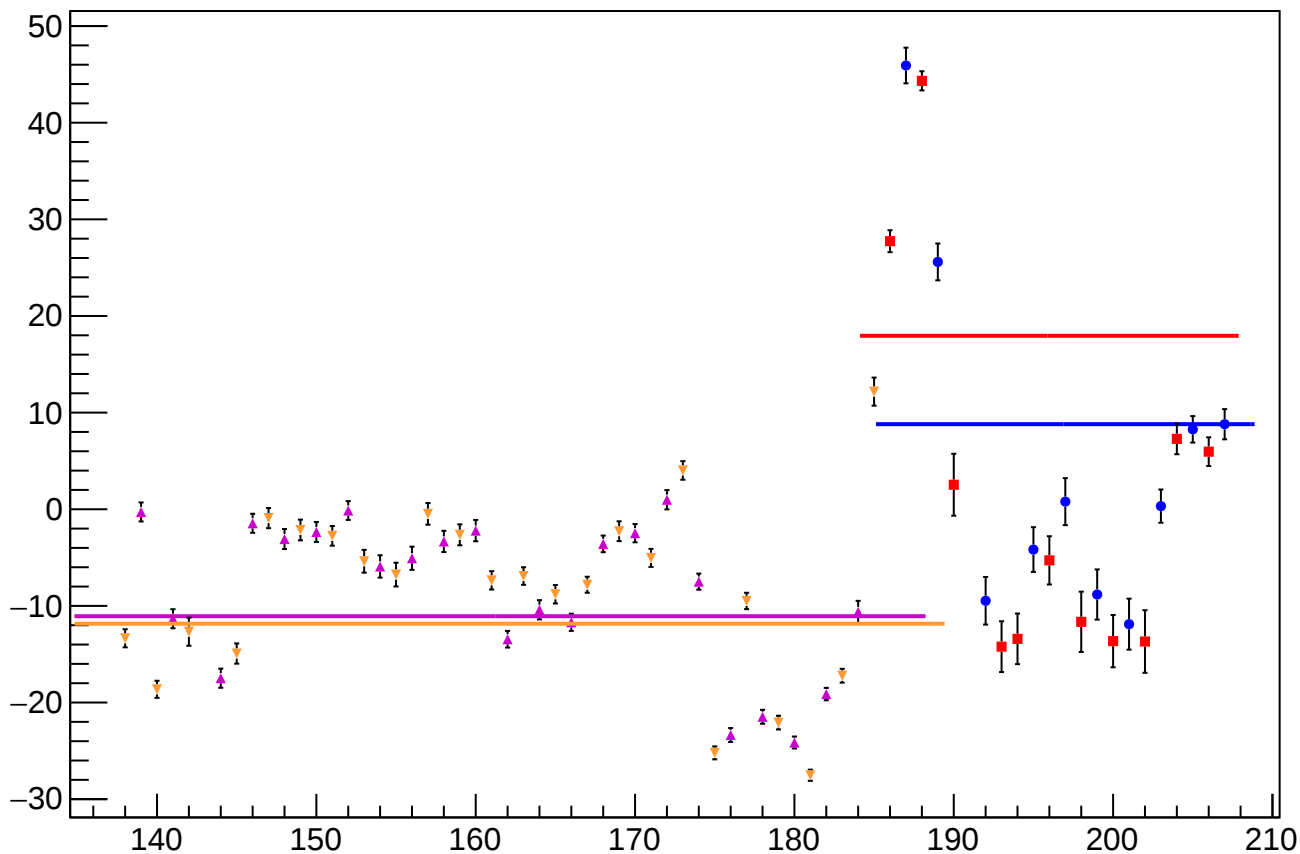
Right: -40.812 ± 0.016 χ^2/NDF : 99391.1/54

In: -39.577 ± 0.012 χ^2/NDF : 147030.3/48

Out: -40.084 ± 0.012 χ^2/NDF : 214816.7/52

All: -39.829 ± 0.008 χ^2/NDF : 362798.1/101

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.803 ± 0.613 $\chi^2/\text{NDF}: 711.7/9$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 17.953 ± 0.532 $\chi^2/\text{NDF}: 1619.6/10$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

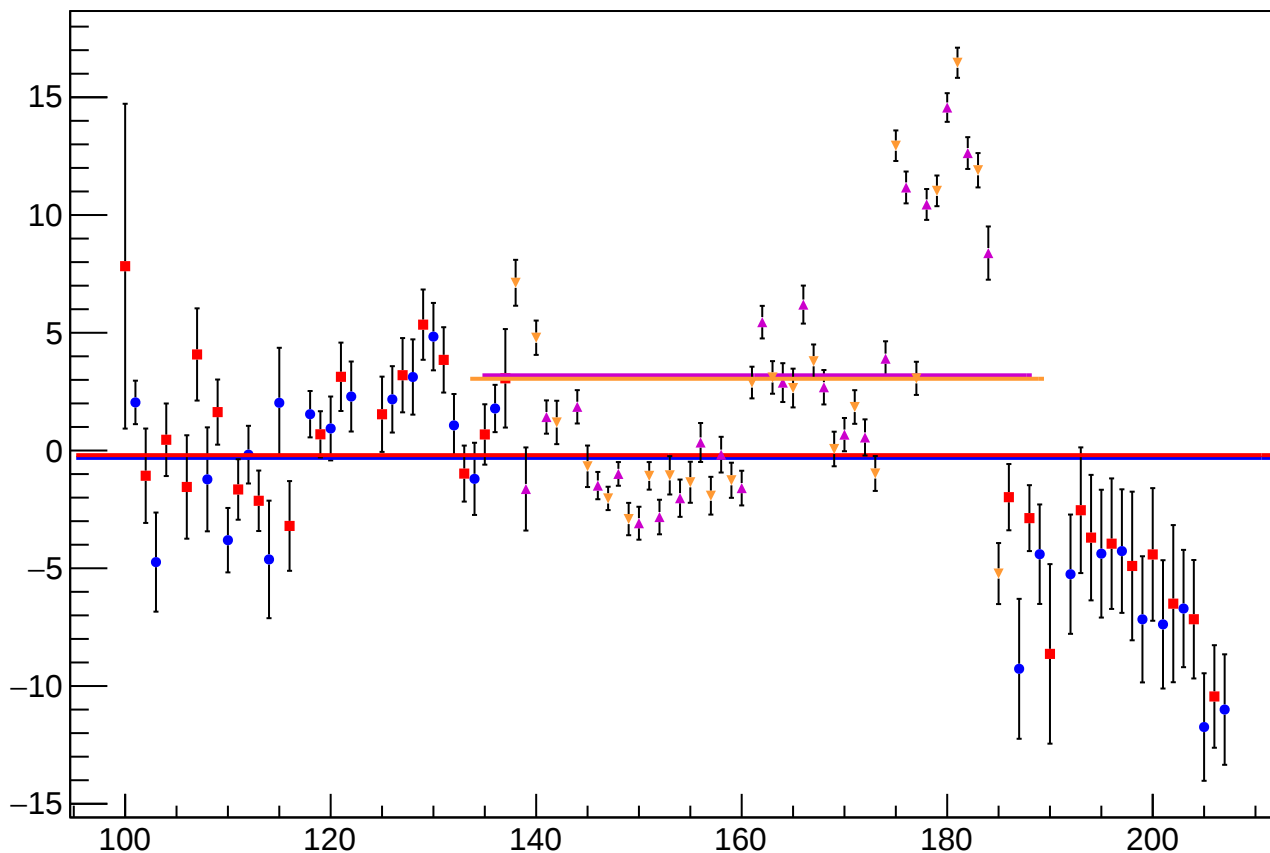
Right: 14.019 ± 0.402 $\chi^2/\text{NDF}: 2458.4/20$

In: -9.359 ± 0.180 $\chi^2/\text{NDF}: 3777.2/32$

Out: -8.574 ± 0.176 $\chi^2/\text{NDF}: 7149.4/34$

All: -8.959 ± 0.126 $\chi^2/\text{NDF}: 10936.3/67$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.313 ± 0.314 χ^2/NDF : 142.4/25

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.197 ± 0.314 χ^2/NDF : 104.5/28

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

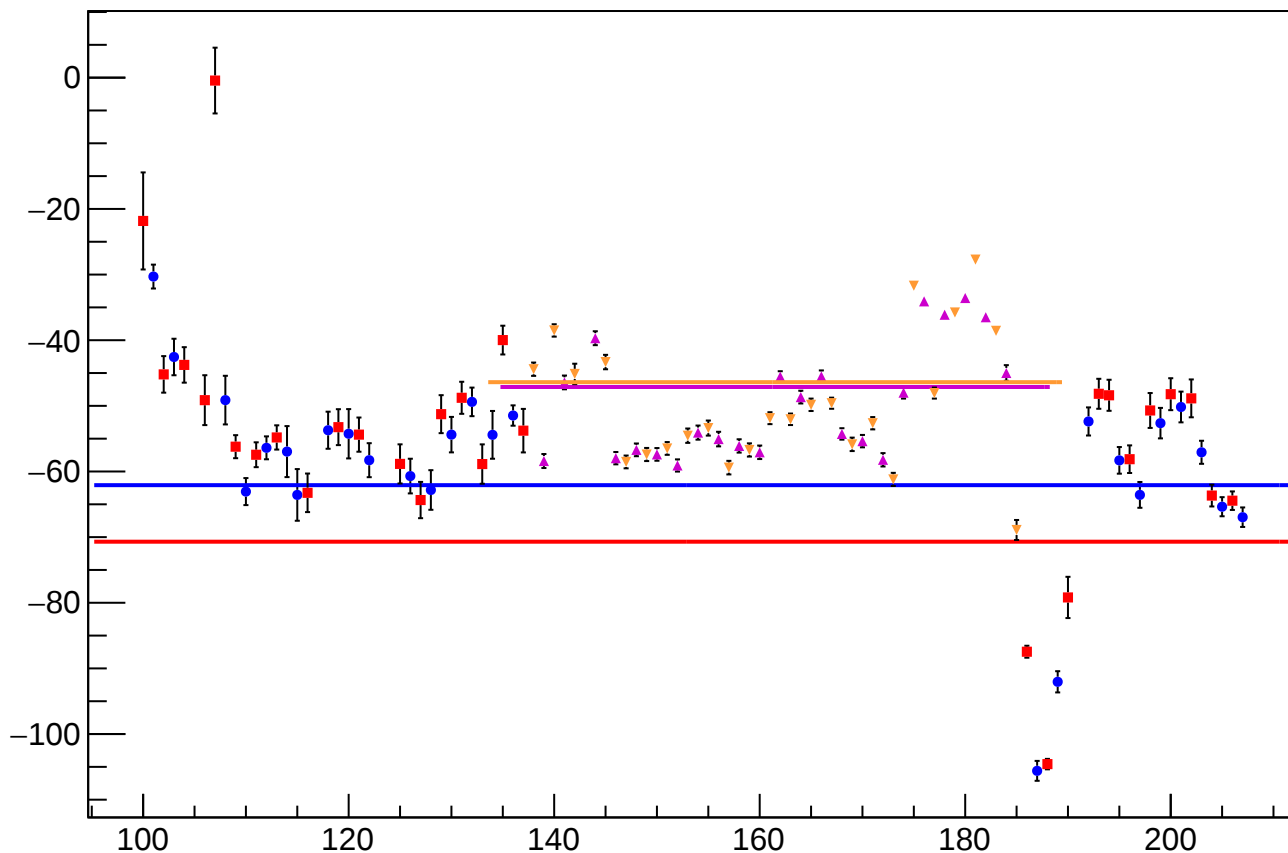
Right: -0.255 ± 0.222 χ^2/NDF : 247.0/54

In: 2.544 ± 0.135 χ^2/NDF : 1538.8/48

Out: 2.457 ± 0.134 χ^2/NDF : 1649.3/52

All: 2.500 ± 0.095 χ^2/NDF : 3188.3/101

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.083 $\pm$ 0.415 χ^2 /NDF: 1747.4/25

Left Out: -46.392 $\pm$ 0.187 χ^2 /NDF: 3286.7/23

Right Out: -70.696 $\pm$ 0.368 χ^2 /NDF: 3725.9/28

Left In: -47.128 $\pm$ 0.187 χ^2 /NDF: 2516.0/22

Left: -46.759 $\pm$ 0.132 χ^2 /NDF: 5810.5/46

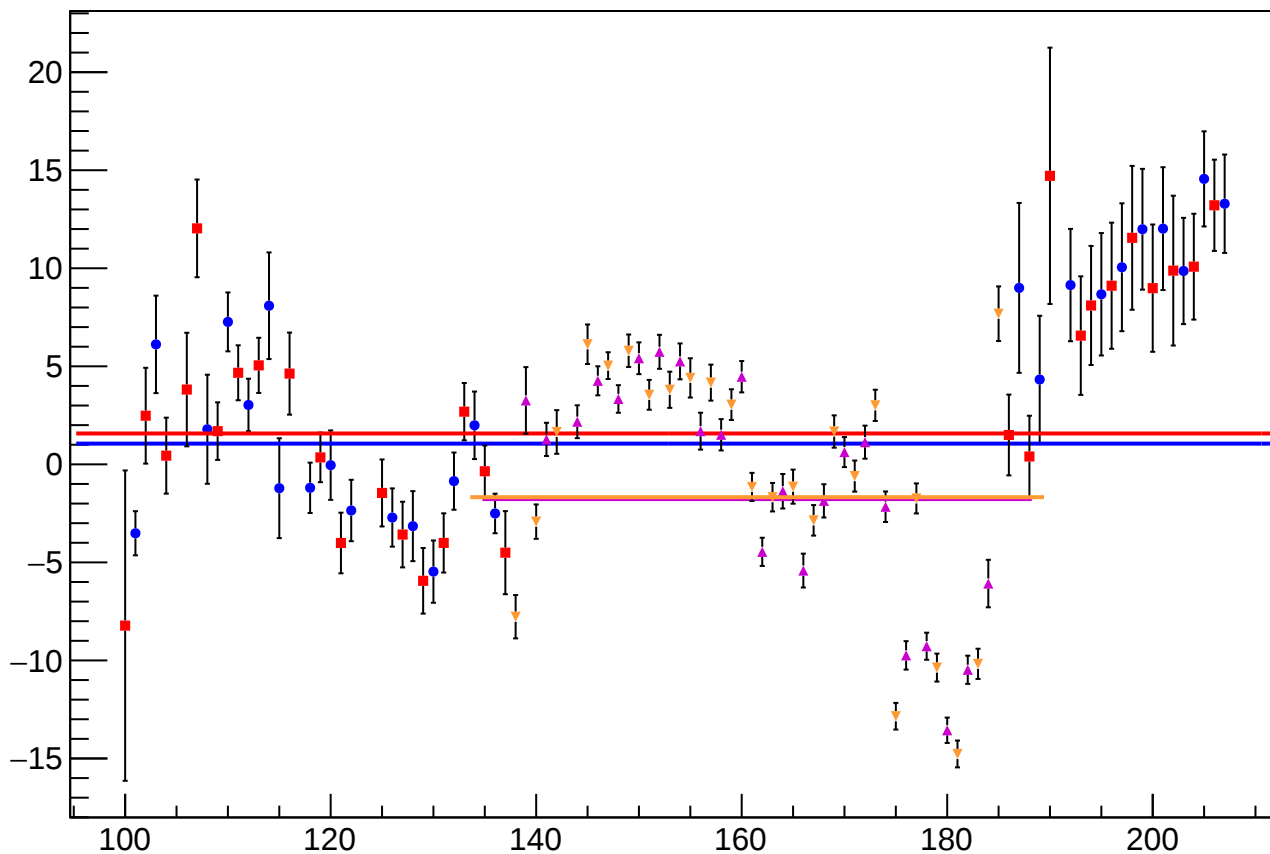
Right: -66.913 $\pm$ 0.275 χ^2 /NDF: 5714.2/54

In: -49.651 $\pm$ 0.171 χ^2 /NDF: 5340.5/48

Out: -51.368 $\pm$ 0.166 χ^2 /NDF: 10487.0/52

All: -50.531 $\pm$ 0.119 χ^2 /NDF: 15879.3/101

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.057 ± 0.358 χ^2/NDF : 215.1/25

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 1.575 ± 0.362 χ^2/NDF : 174.3/28

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

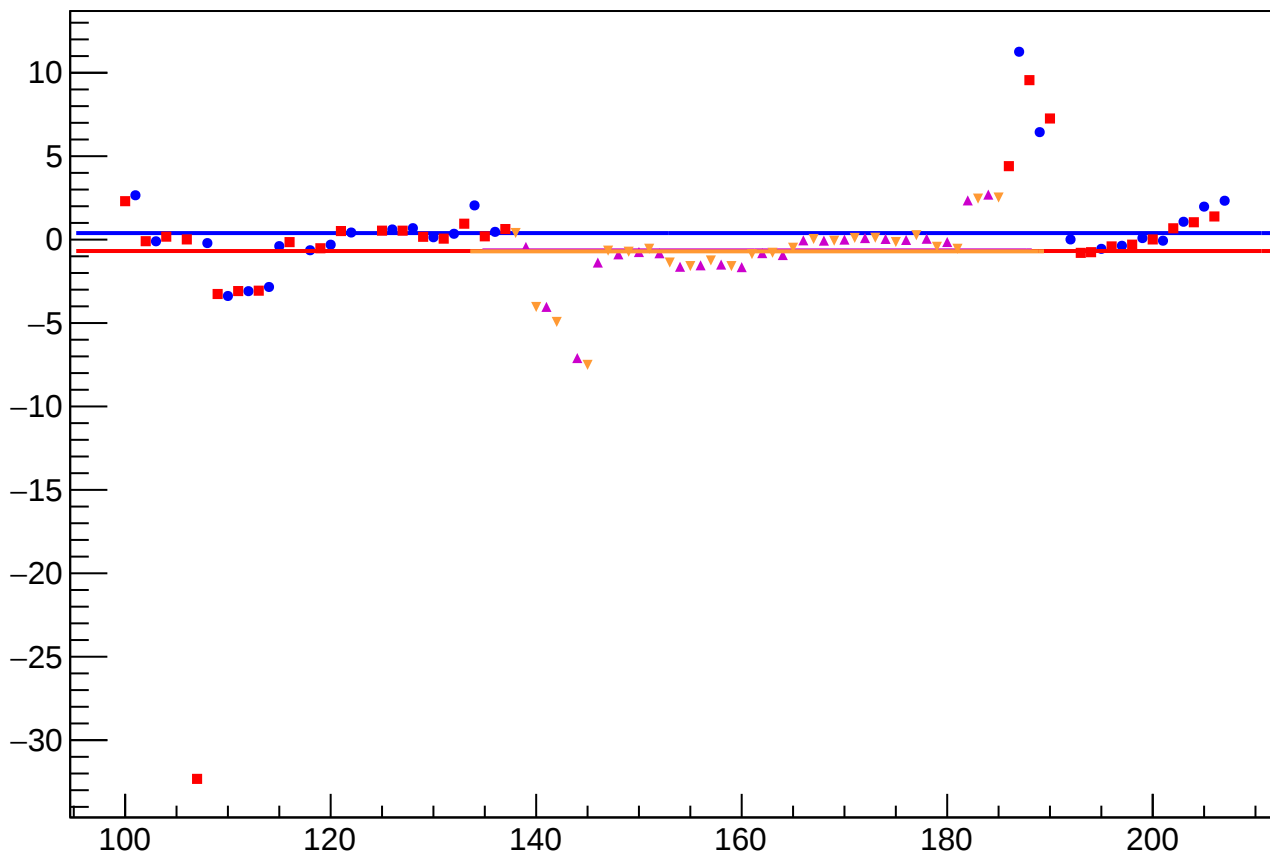
Right: 1.313 ± 0.255 χ^2/NDF : 390.4/54

In: -1.256 ± 0.153 χ^2/NDF : 1517.4/48

Out: -1.106 ± 0.152 χ^2/NDF : 1724.4/52

All: -1.181 ± 0.108 χ^2/NDF : 3242.3/101

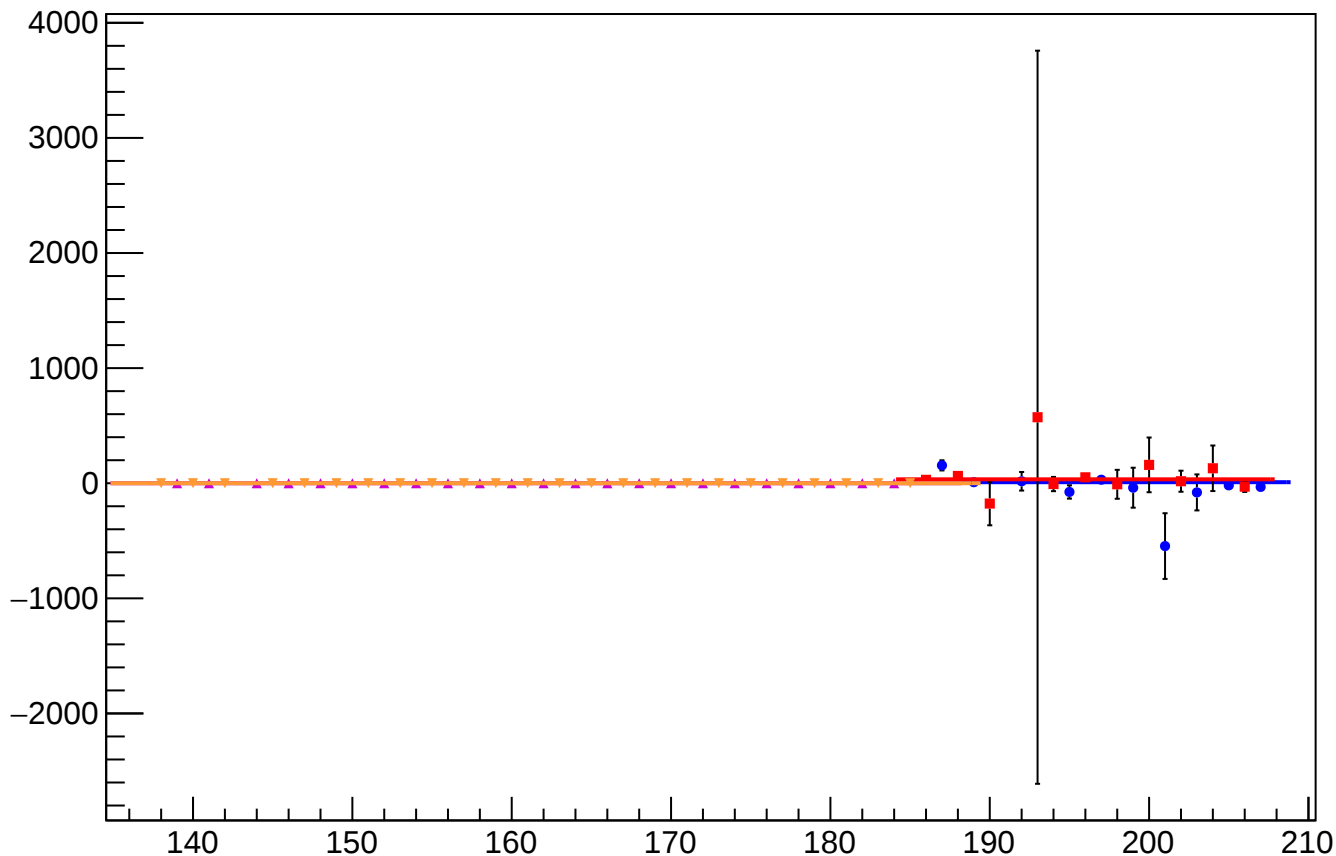
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.391 ± 0.018 $\chi^2/\text{NDF}: 9948.7/25$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.684 ± 0.018 $\chi^2/\text{NDF}: 93365.0/28$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$
 Right: -0.147 ± 0.013 $\chi^2/\text{NDF}: 105087.4/54$
 In: -0.486 ± 0.007 $\chi^2/\text{NDF}: 56898.9/48$
 Out: -0.699 ± 0.007 $\chi^2/\text{NDF}: 147200.7/52$
 All: -0.593 ± 0.005 $\chi^2/\text{NDF}: 204556.9/101$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.996 $\pm$ 15.217 χ^2 /NDF: 19.4/9

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 35.4/23

Right Out: 33.992 $\pm$ 9.677 χ^2 /NDF: 6.6/10

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

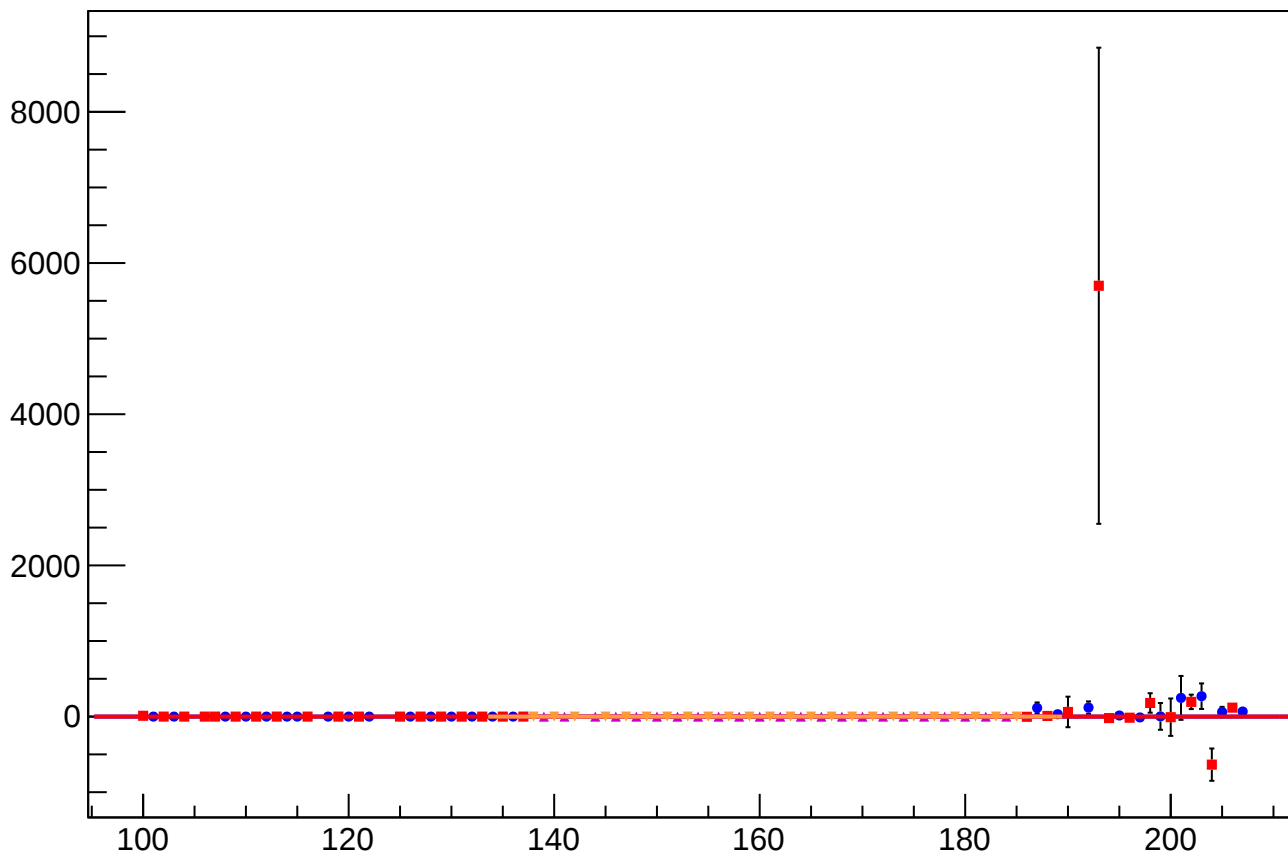
Right: 26.795 $\pm$ 8.166 χ^2 /NDF: 27.9/20

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 54.9/32

Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 54.4/34

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 110.3/67

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013+/-0.023 χ^2 /NDF: 23.5/25

Left Out: -0.073+/-0.014 χ^2 /NDF: 27.8/23

Right Out: -0.088+/-0.025 χ^2 /NDF: 34.8/28

Left In: -0.064+/-0.014 χ^2 /NDF: 41.1/22

Left: -0.068+/-0.010 χ^2 /NDF: 69.1/46

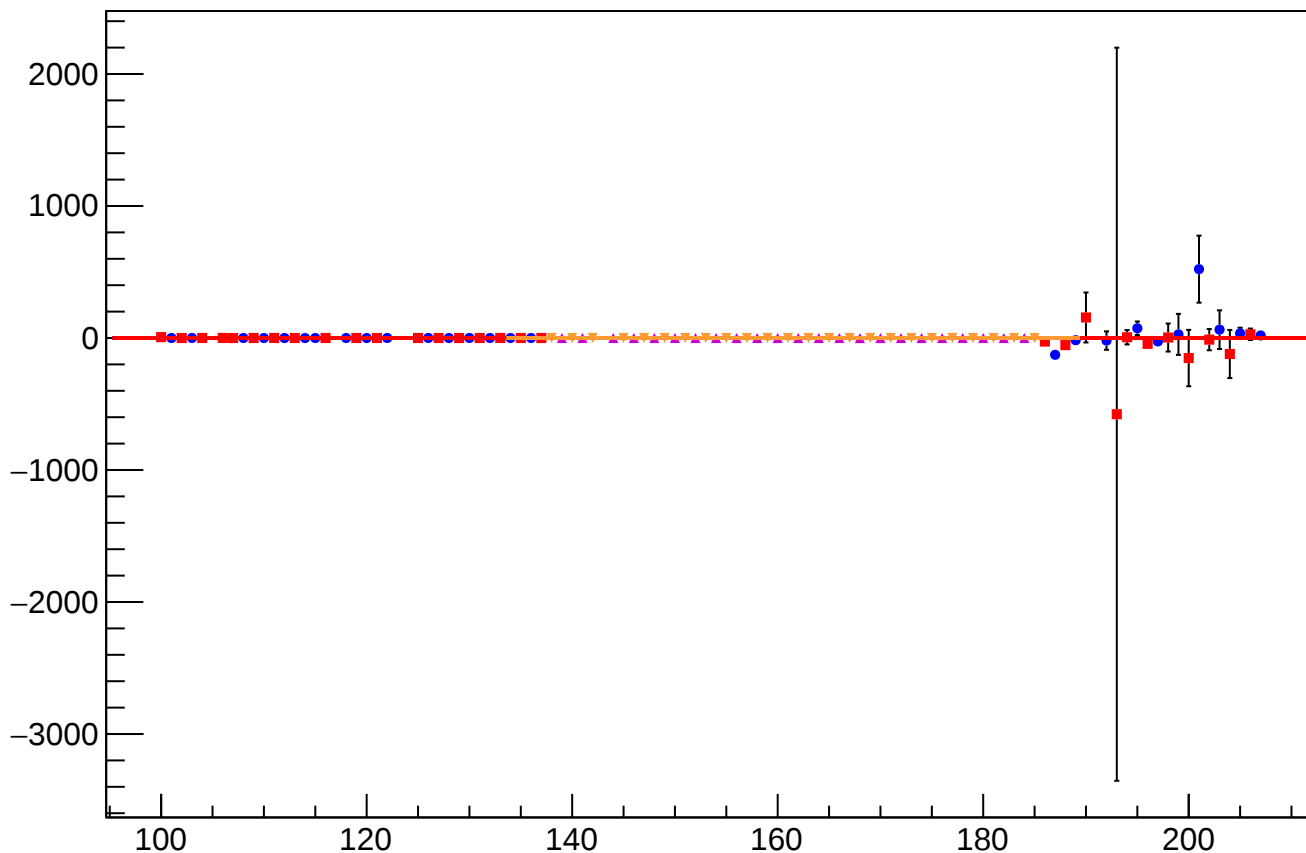
Right: -0.048+/-0.017 χ^2 /NDF: 63.0/54

In: -0.050+/-0.012 χ^2 /NDF: 67.9/48

Out: -0.076+/-0.012 χ^2 /NDF: 62.9/52

All: -0.063+/-0.009 χ^2 /NDF: 133.1/101

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 30.1/25

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 30.7/28

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

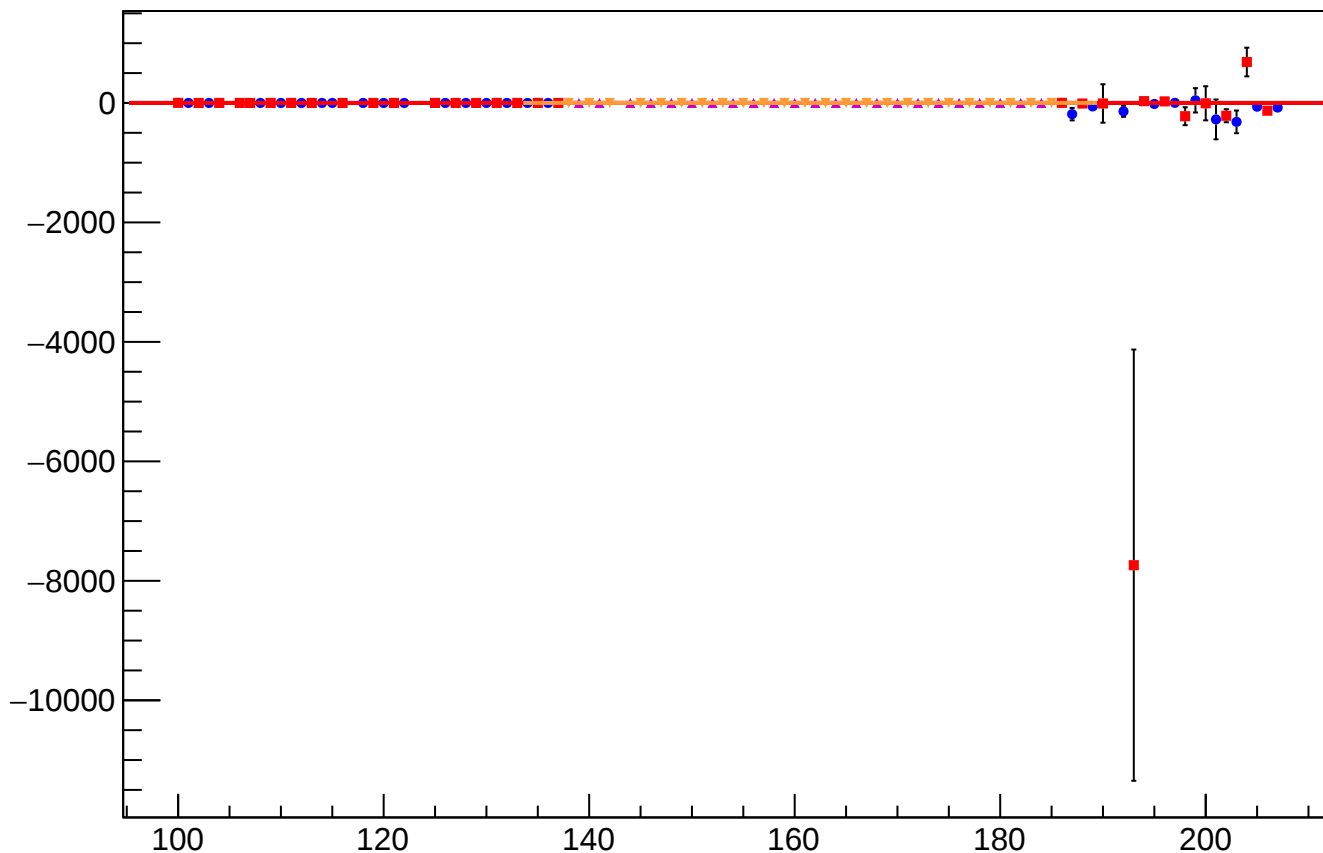
Right: 0.023+/-0.031 χ^2/NDF : 60.9/54

In: -0.005+/-0.017 χ^2/NDF :67.2/48

Out: 0.035+/-0.017 χ^2/NDF :62.9/52

All: 0.015+/-0.012 χ^2/NDF : 133.0/101

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 24.7/25

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 30.7/28

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

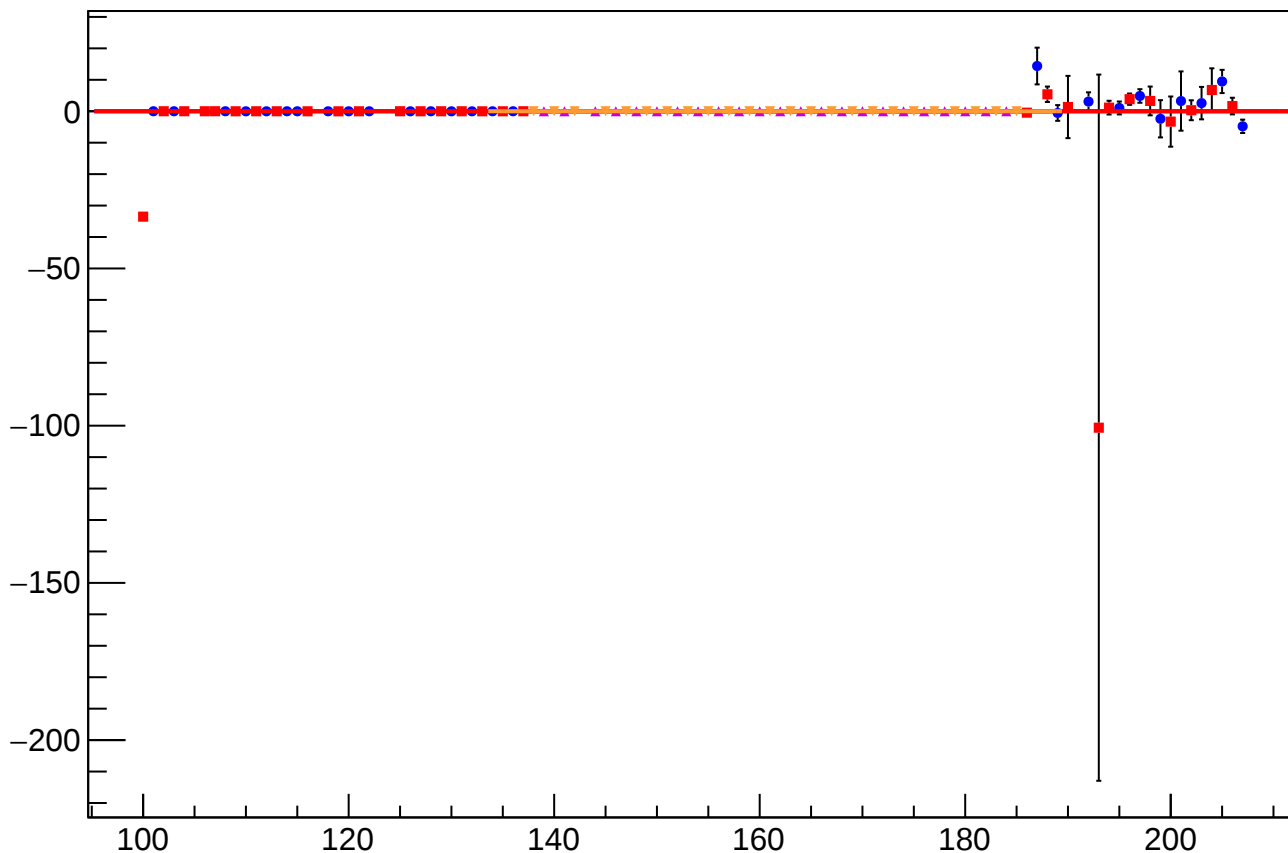
Right: 0.054+/-0.020 χ^2/NDF : 61.4/54

In: 0.053+/-0.014 χ^2/NDF : 73.3/48

Out: 0.091+/-0.014 χ^2/NDF : 58.8/52

All: 0.072+/-0.010 χ^2/NDF : 135.6/101

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 46.3/25

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26521.6/28

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

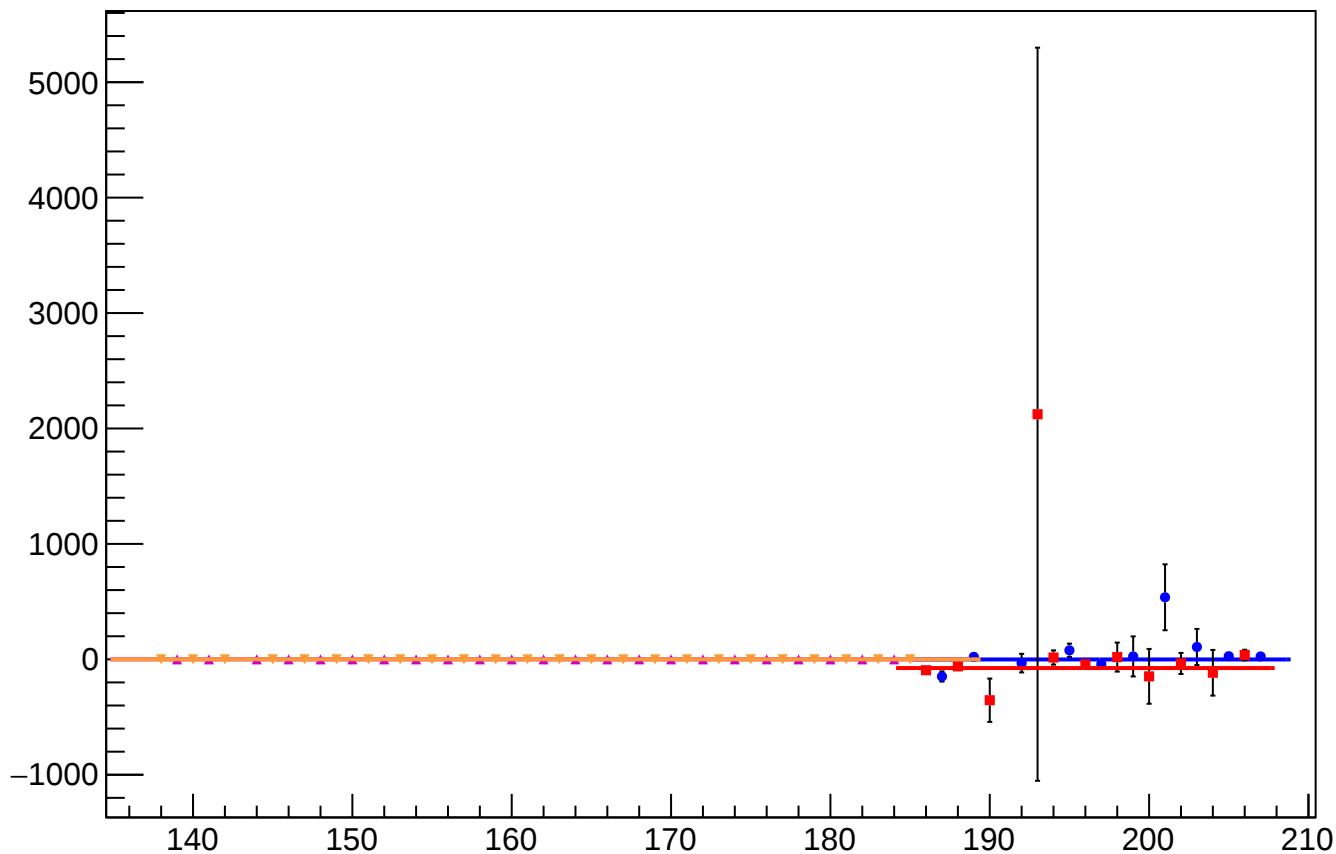
Right: -0.006 ± 0.001 χ^2/NDF : 26567.9/54

In: -0.001 ± 0.001 χ^2/NDF : 80.3/48

Out: -0.001 ± 0.001 χ^2/NDF : 26560.3/52

All: -0.001 ± 0.000 χ^2/NDF : 26640.6/101

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.090 ± 15.212 $\chi^2/\text{NDF}: 19.8/9$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.556 ± 9.679 $\chi^2/\text{NDF}: 15.3/10$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

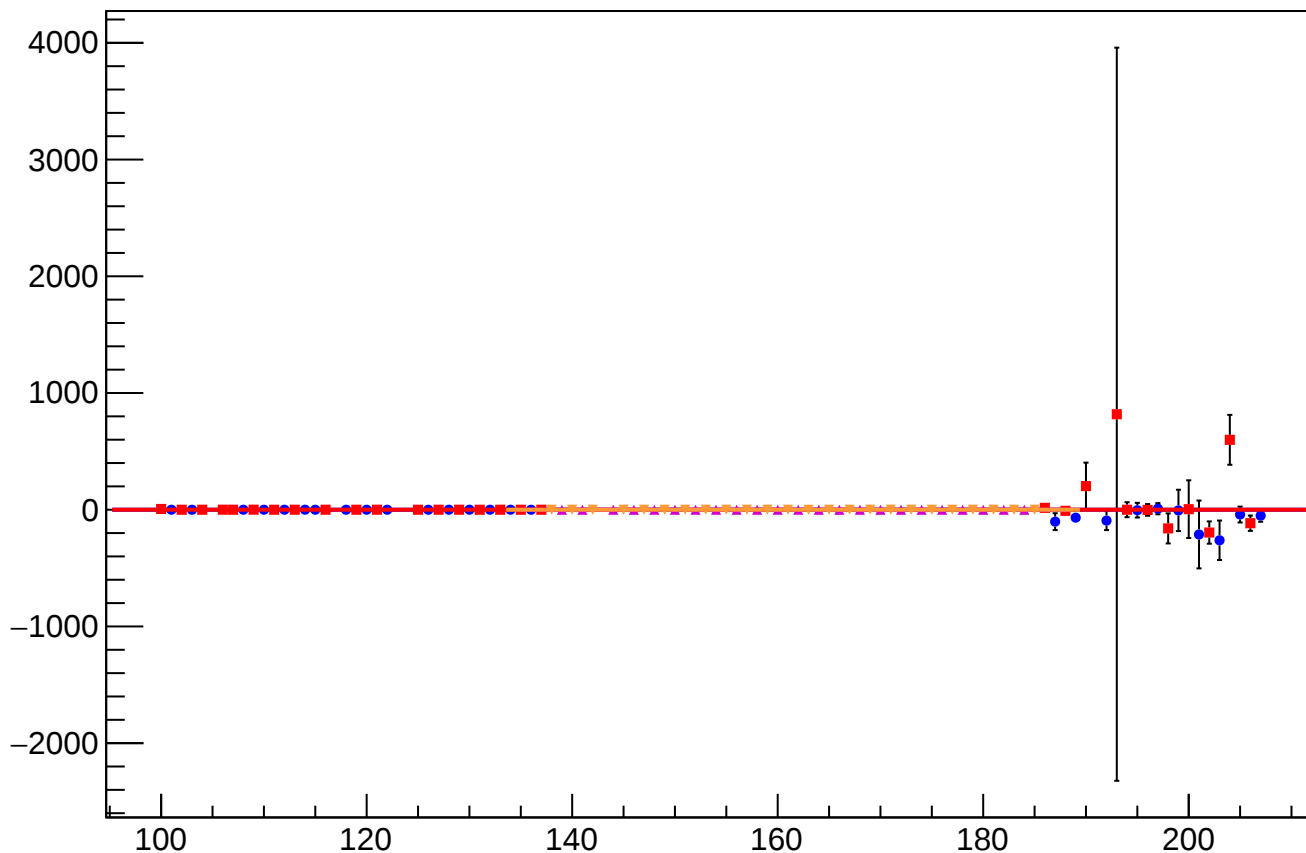
Right: -54.097 ± 8.166 $\chi^2/\text{NDF}: 52.2/20$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 55.0/32$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 113.5/34$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 171.4/67$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 37.3/25

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 47.7/28

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

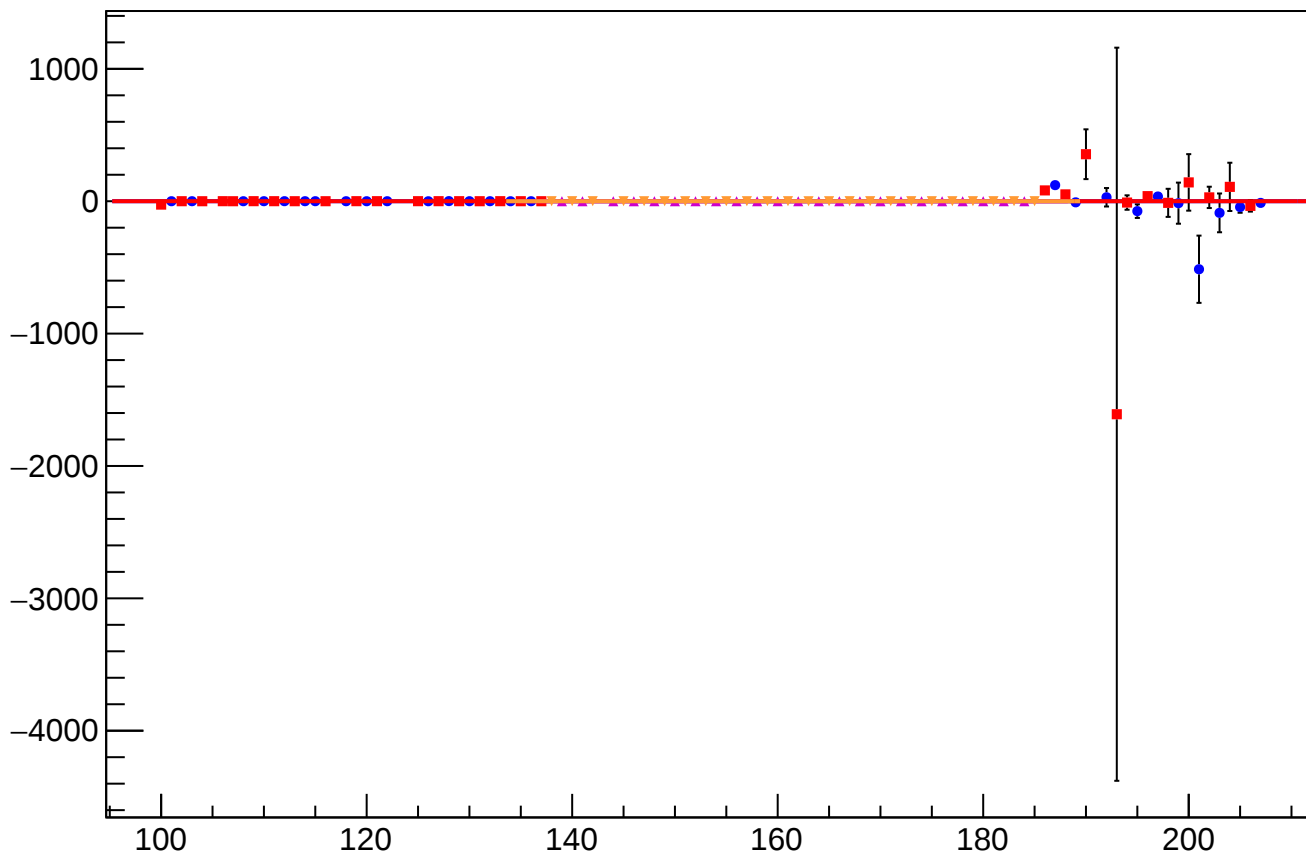
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 85.7/54

In: 0.006 $\pm$ 0.012 χ^2 /NDF:86.8/48

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:80.1/52

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 167.0/101

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.2/25

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.6/28

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

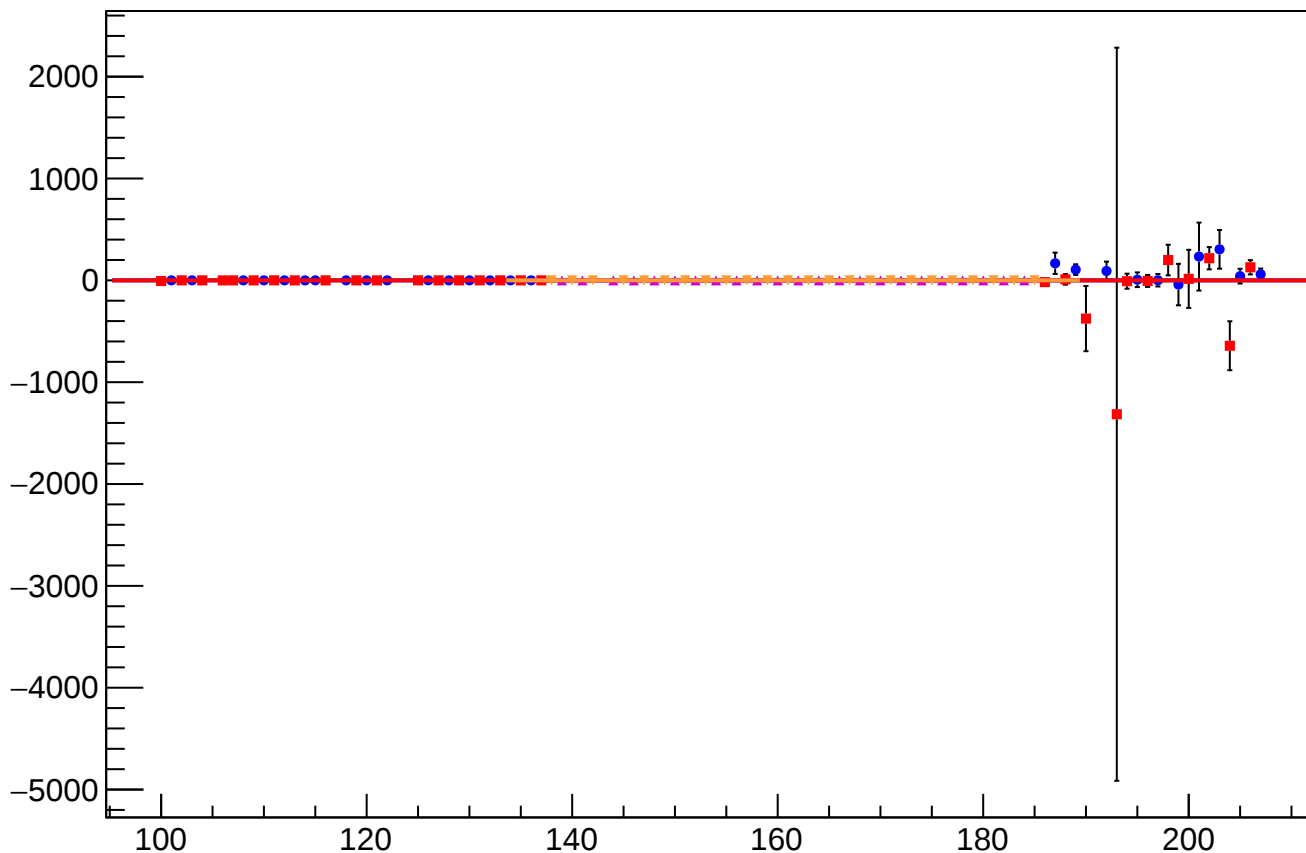
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 159.2/54

In: 0.040 $\pm$ 0.017 χ^2 /NDF:94.6/48

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:153.5/52

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 249.5/101

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 36.8/25

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 44.6/28

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

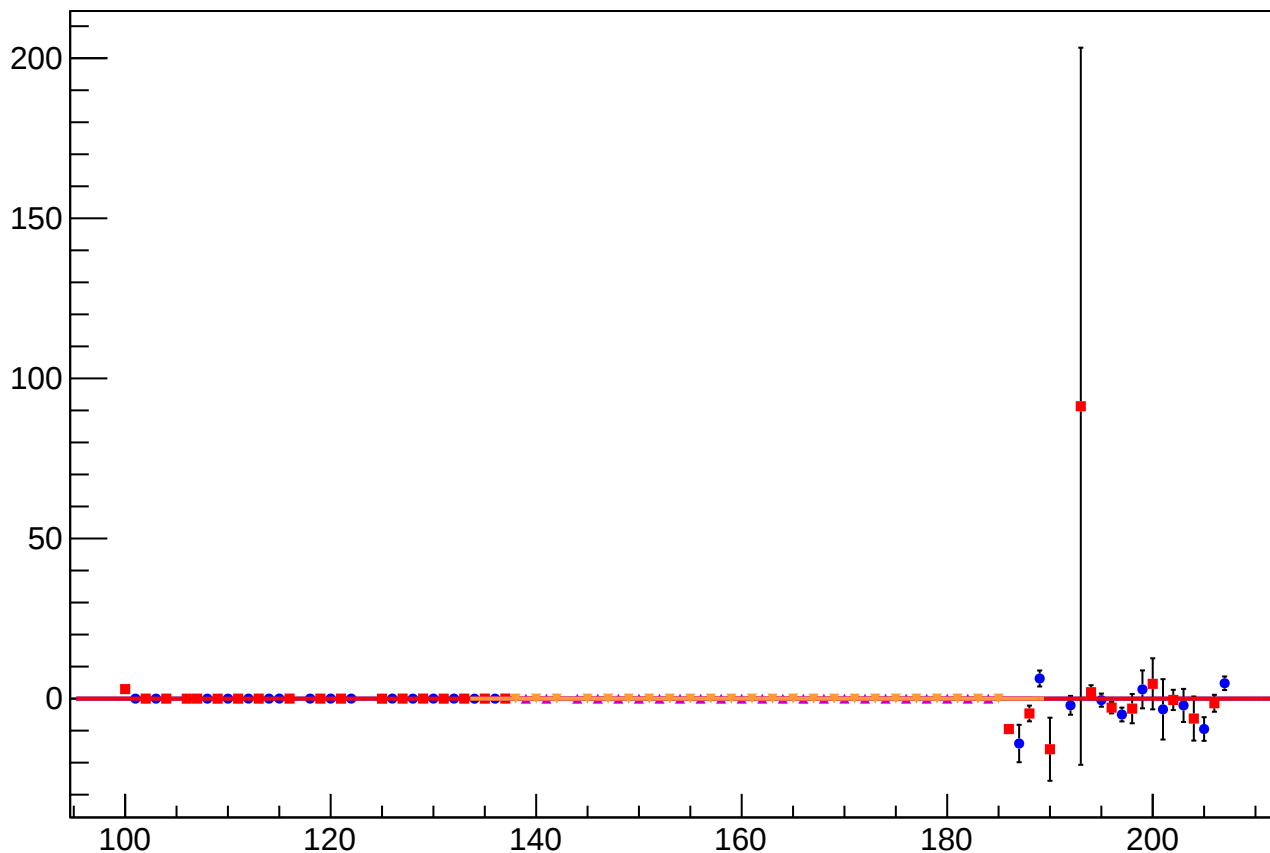
Right: -0.027 ± 0.020 χ^2/NDF : 82.3/54

In: 0.002 ± 0.014 χ^2/NDF : 87.2/48

Out: 0.005 ± 0.014 χ^2/NDF : 82.2/52

All: 0.004 ± 0.010 χ^2/NDF : 169.5/101

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2 /NDF: 57.6/25

Left Out: -0.008+/-0.001 χ^2 /NDF:32.0/23

Right Out: -0.006+/-0.001 χ^2 /NDF: 214.9/28

Left In: -0.009+/-0.001 χ^2 /NDF:37.2/22

Left: -0.008+/-0.001 χ^2 /NDF: 69.4/46

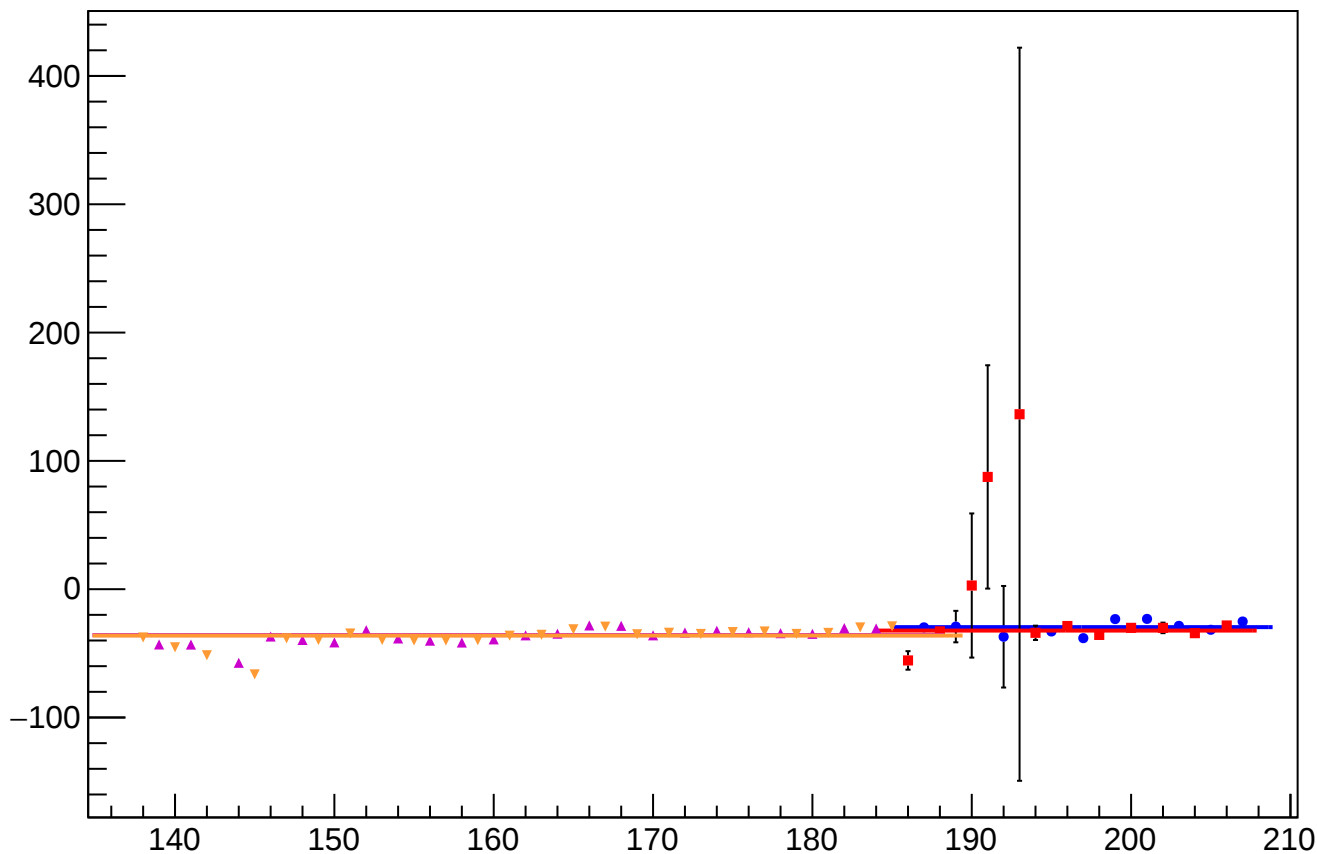
Right: -0.006+/-0.001 χ^2 /NDF: 272.5/54

In: -0.008+/-0.001 χ^2 /NDF:97.4/48

Out: -0.008+/-0.001 χ^2 /NDF:248.9/52

All: -0.008+/-0.000 χ^2 /NDF: 346.5/101

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



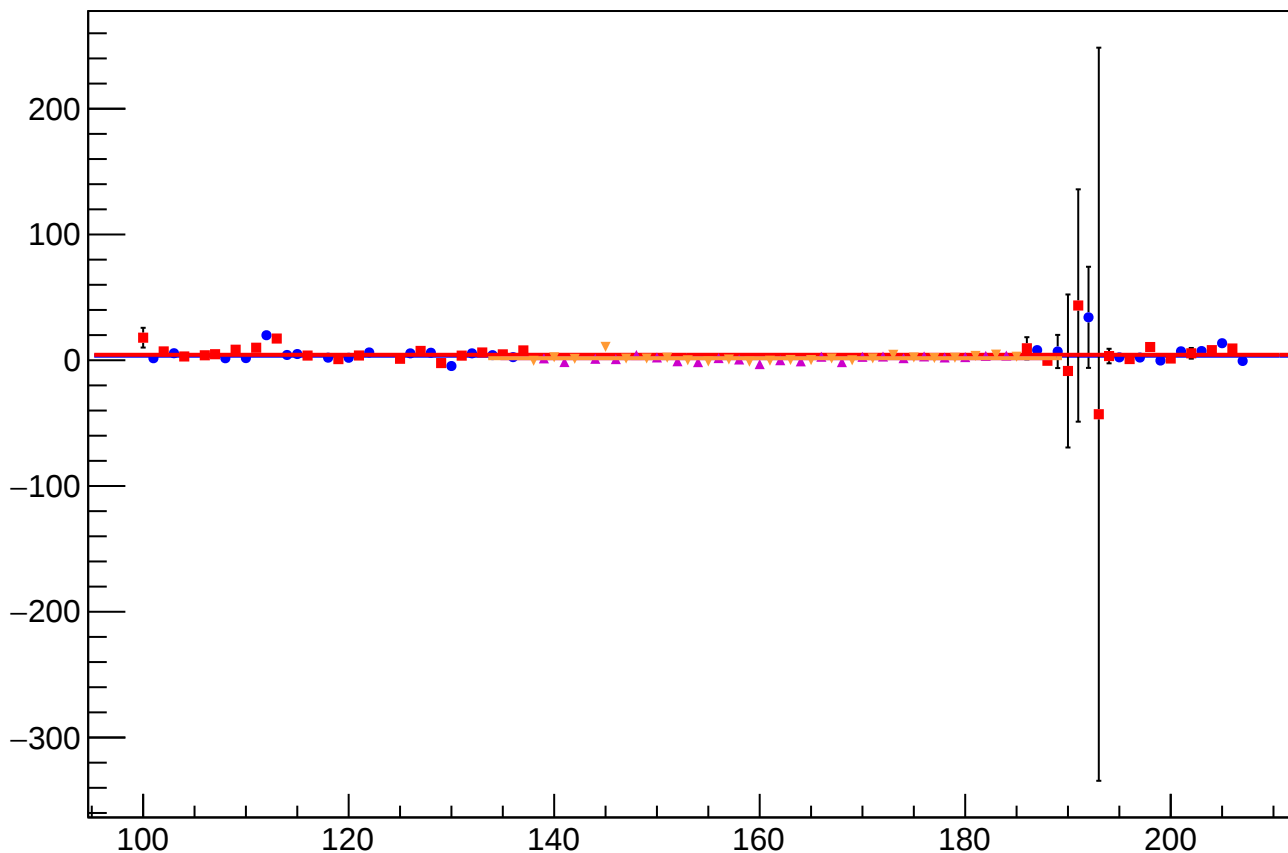
Right In: -29.576 ± 0.859 $\chi^2/\text{NDF}: 24.1/9$
 Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$
 Right Out: -32.254 ± 0.808 $\chi^2/\text{NDF}: 20.7/11$
 Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$
 Right: -30.996 ± 0.589 $\chi^2/\text{NDF}: 50.0/21$

In: -35.486 ± 0.187 $\chi^2/\text{NDF}: 927.8/32$
 Out: -35.914 ± 0.187 $\chi^2/\text{NDF}: 1157.3/35$

All: -35.700 ± 0.132 $\chi^2/\text{NDF}: 2087.8/68$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.601+/-0.217 χ^2/NDF : 456.9/25

Left Out: 1.634+/-0.148 χ^2/NDF : 166.5/23

Right Out: 4.349+/-0.221 χ^2/NDF : 369.0/29

Left In: 1.641+/-0.150 χ^2/NDF : 163.2/22

Left: 1.638+/-0.105 χ^2/NDF : 329.7/46

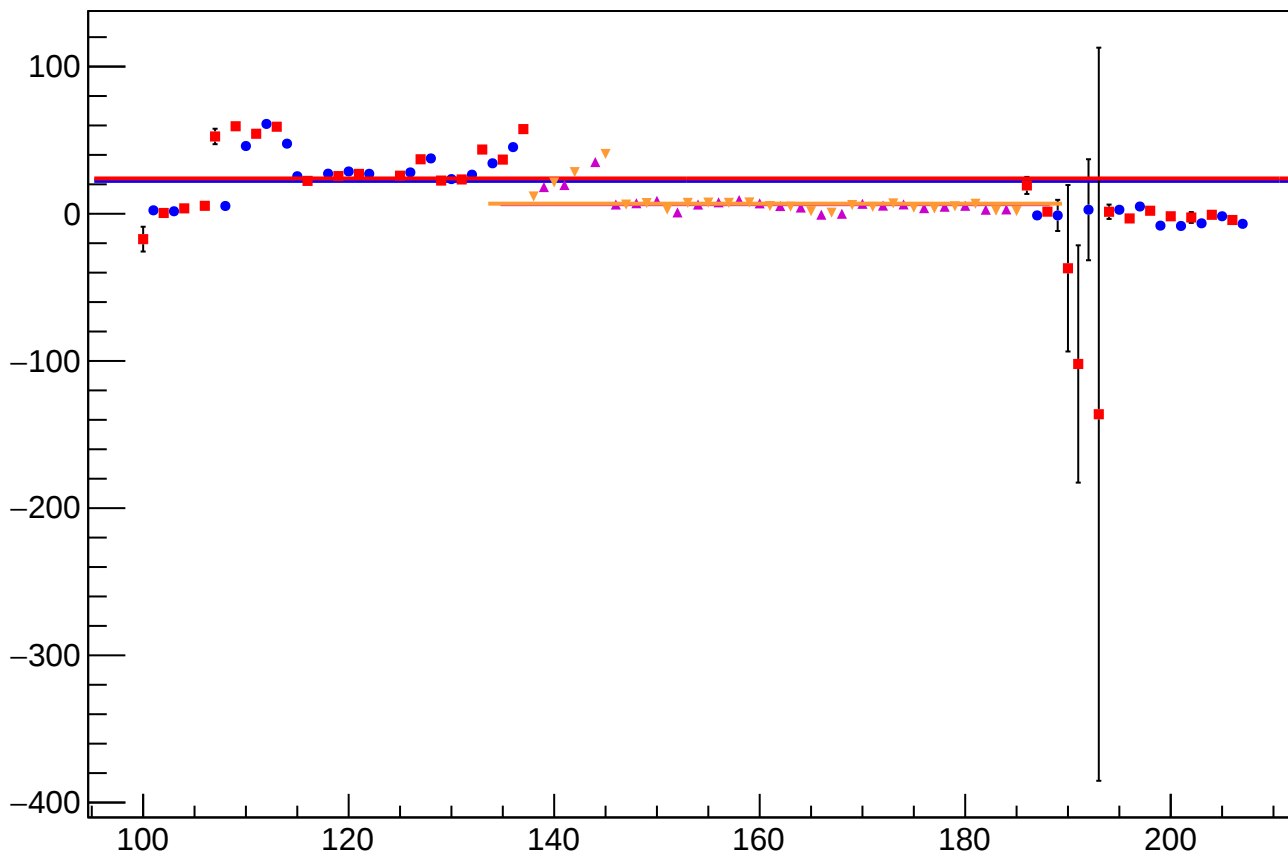
Right: 3.968+/-0.155 χ^2/NDF : 831.7/55

In: 2.273+/-0.123 χ^2/NDF : 675.5/48

Out: 2.475+/-0.123 χ^2/NDF : 640.0/53

All: 2.374+/-0.087 χ^2/NDF : 1316.9/102

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.348 $\pm$ 0.370 χ^2 /NDF: 2806.1/25

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.981 $\pm$ 0.362 χ^2 /NDF: 3283.7/29

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

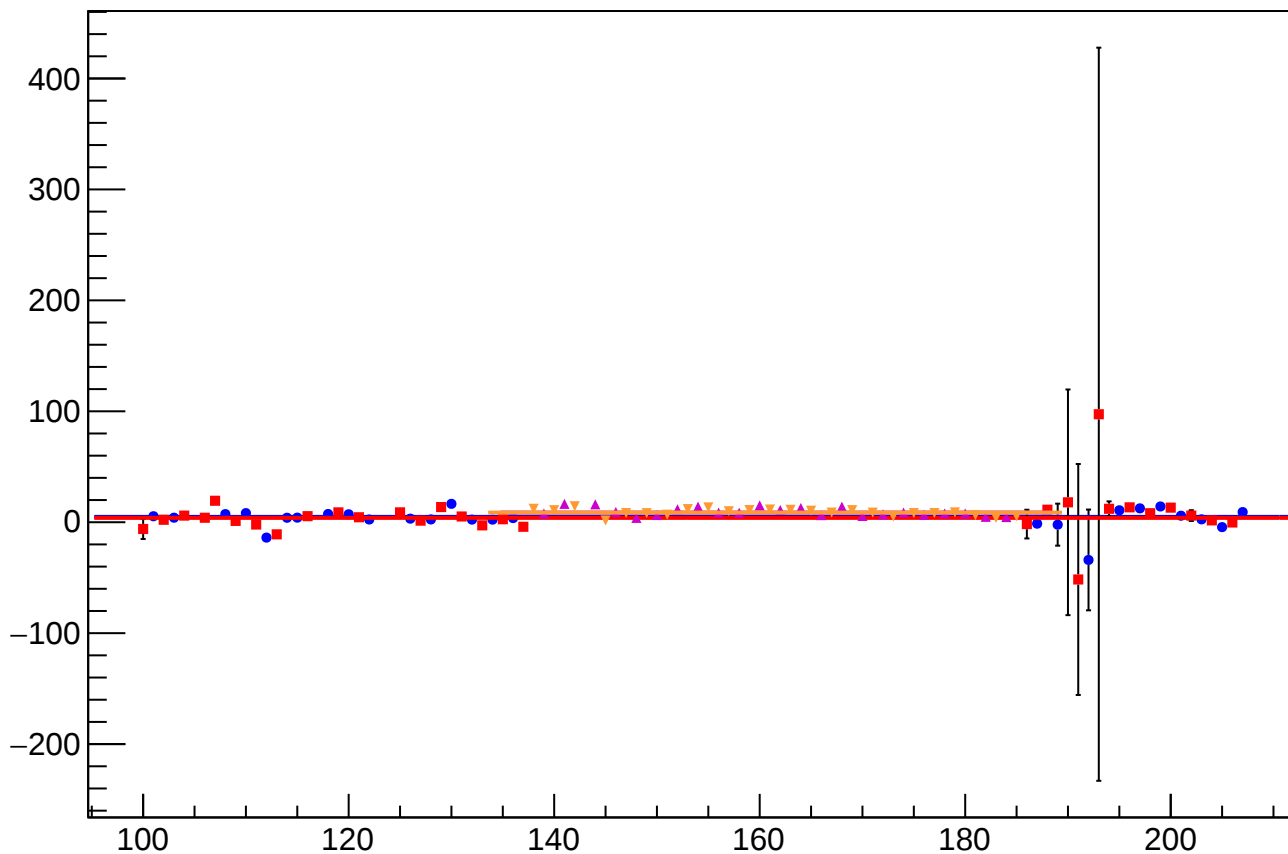
Right: 23.183 $\pm$ 0.259 χ^2 /NDF: 6099.7/55

In: 9.845 $\pm$ 0.169 χ^2 /NDF:5274.6/48

Out: 10.607 $\pm$ 0.169 χ^2 /NDF:6327.5/53

All: 10.227 $\pm$ 0.120 χ^2 /NDF: 11612.3/102

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.805 $\pm$ 0.250 χ^2 /NDF: 571.2/25

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.937 $\pm$ 0.254 χ^2 /NDF: 589.1/29

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

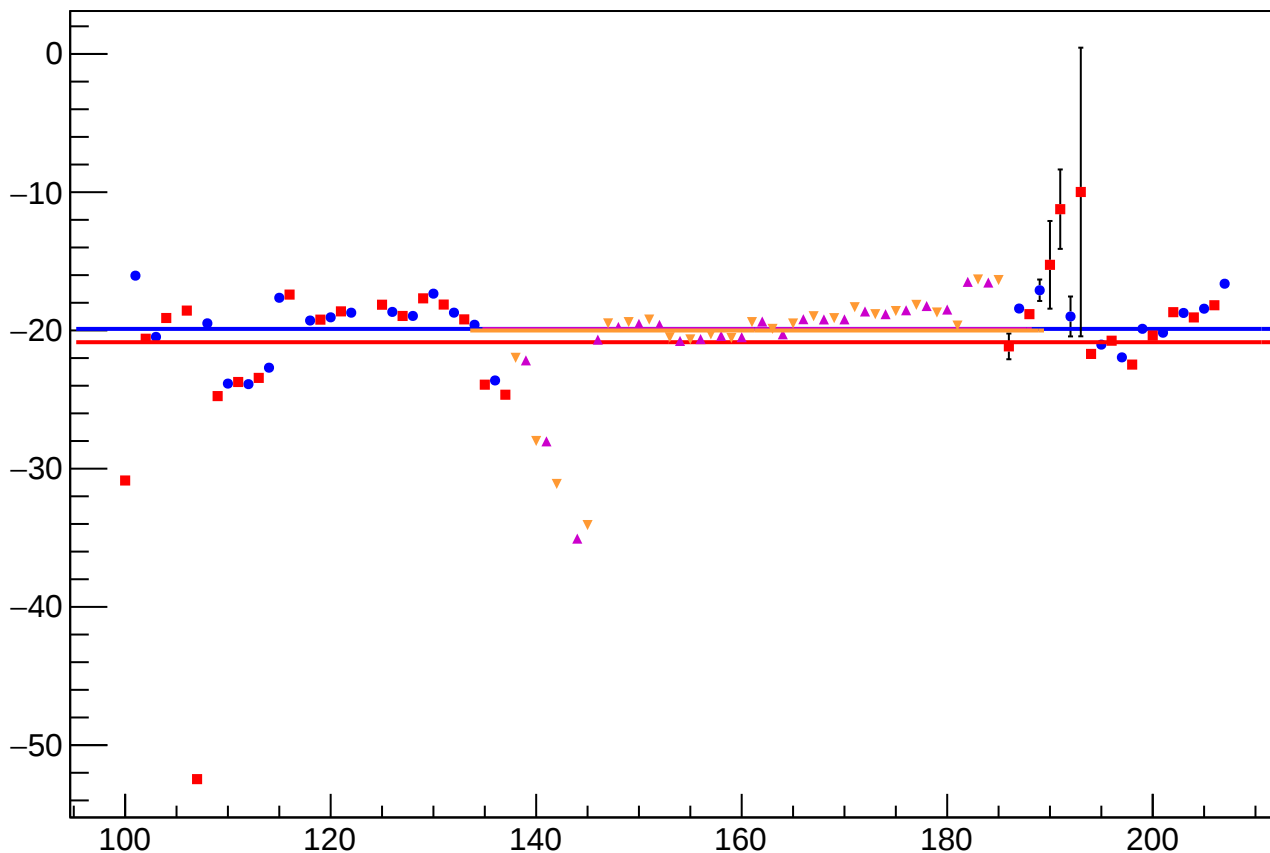
Right: 4.379 $\pm$ 0.178 χ^2 /NDF: 1166.2/55

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1171.1/48

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1072.8/53

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2244.9/102

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.890 ± 0.015 χ^2/NDF : 27141.0/25

Left Out: -20.006 ± 0.008 χ^2/NDF : 171763.9/23

Right Out: -20.852 ± 0.015 χ^2/NDF : 95238.2/29

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.951 ± 0.006 χ^2/NDF : 316049.4/46

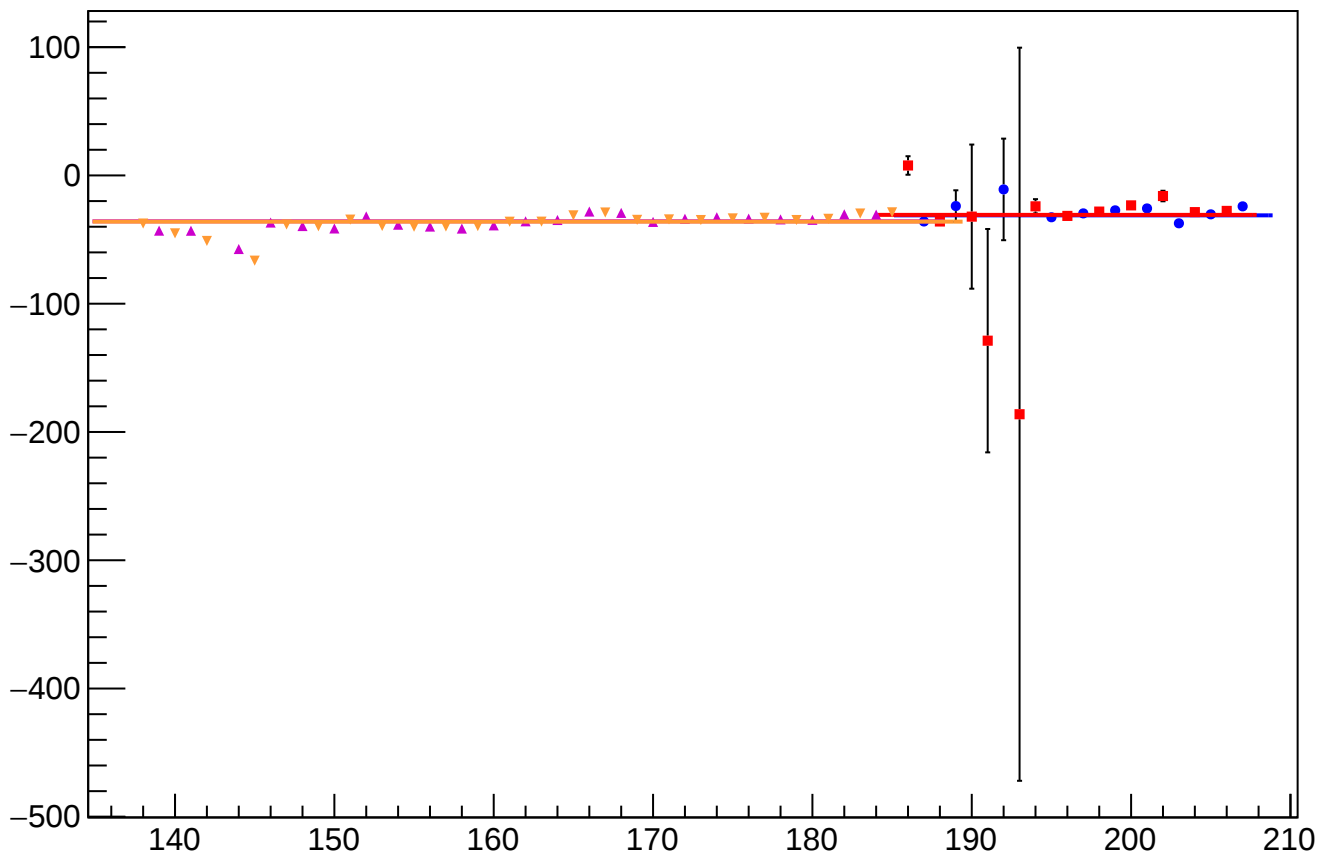
Right: -20.368 ± 0.011 χ^2/NDF : 124467.7/55

In: -19.896 ± 0.007 χ^2/NDF : 171333.1/48

Out: -20.190 ± 0.007 χ^2/NDF : 269511.5/53

All: -20.042 ± 0.005 χ^2/NDF : 441739.2/102

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



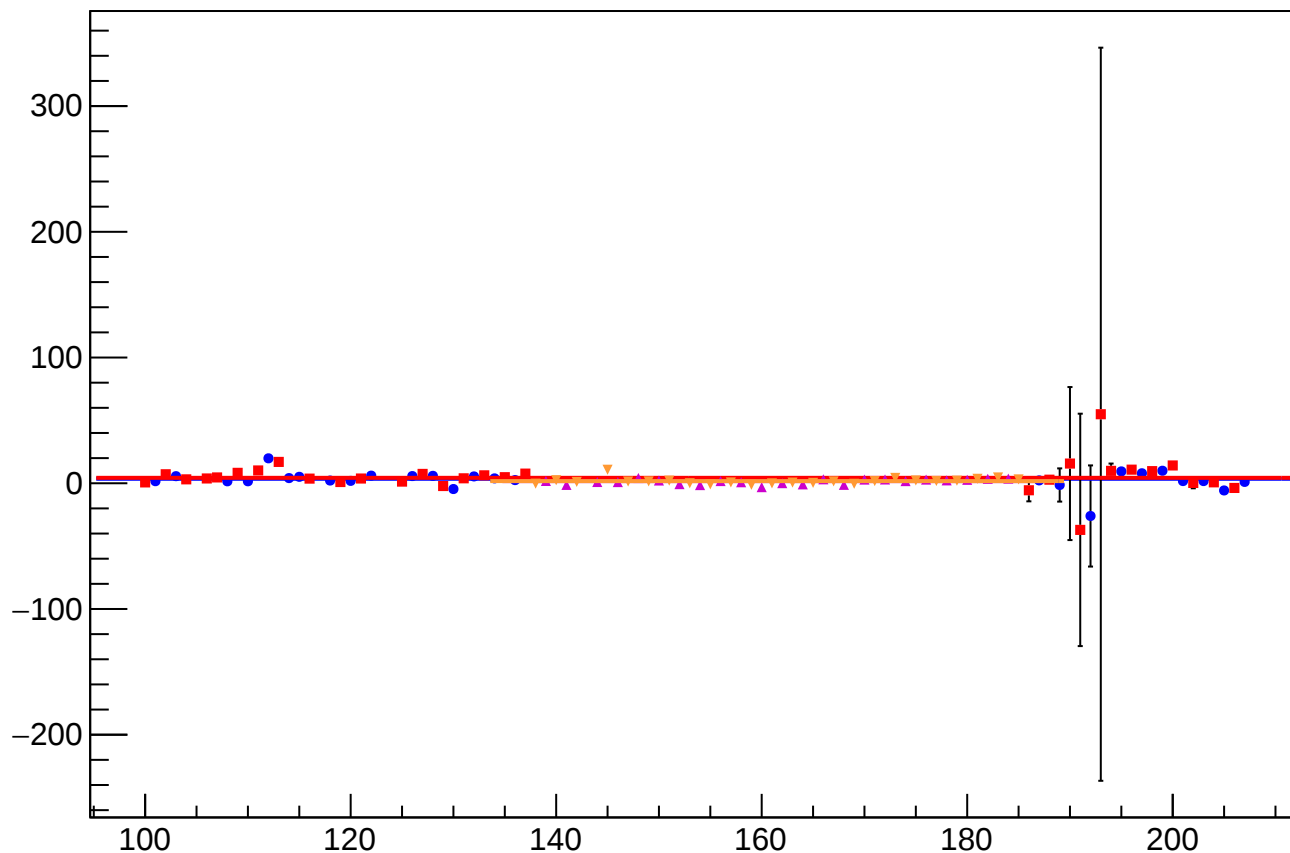
Right In: -31.120 ± 0.862 $\chi^2/\text{NDF}: 27.5/9$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -30.756 ± 0.811 $\chi^2/\text{NDF}: 71.9/11$
 Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$
 Right: -30.927 ± 0.590 $\chi^2/\text{NDF}: 99.5/21$

In: -35.548 ± 0.187 $\chi^2/\text{NDF}: 897.8/32$
 Out: -35.751 ± 0.187 $\chi^2/\text{NDF}: 1233.3/35$

All: -35.650 ± 0.132 $\chi^2/\text{NDF}: 2131.7/68$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.568+/-0.217 χ^2/NDF : 456.0/25

Left Out: 1.724+/-0.148 χ^2/NDF : 168.2/23

Right Out: 4.321+/-0.217 χ^2/NDF : 378.2/29

Left In: 1.705+/-0.149 χ^2/NDF : 163.0/22

Left: 1.714+/-0.105 χ^2/NDF : 331.1/46

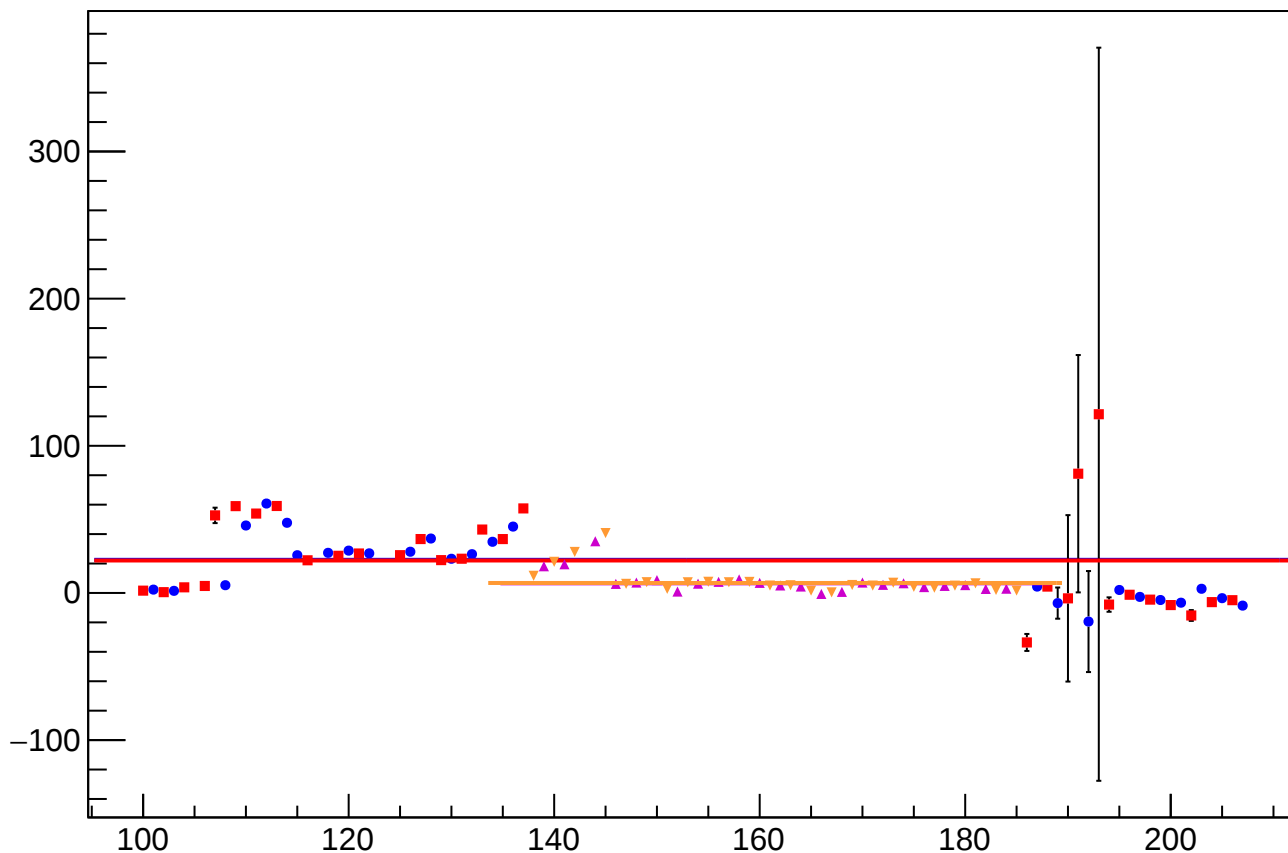
Right: 3.944+/-0.153 χ^2/NDF : 840.3/55

In: 2.306+/-0.123 χ^2/NDF : 669.1/48

Out: 2.546+/-0.122 χ^2/NDF : 644.3/53

All: 2.427+/-0.087 χ^2/NDF : 1315.3/102

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.511 $\pm$ 0.370 χ^2 /NDF: 2694.3/25

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.063 $\pm$ 0.349 χ^2 /NDF: 3659.2/29

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

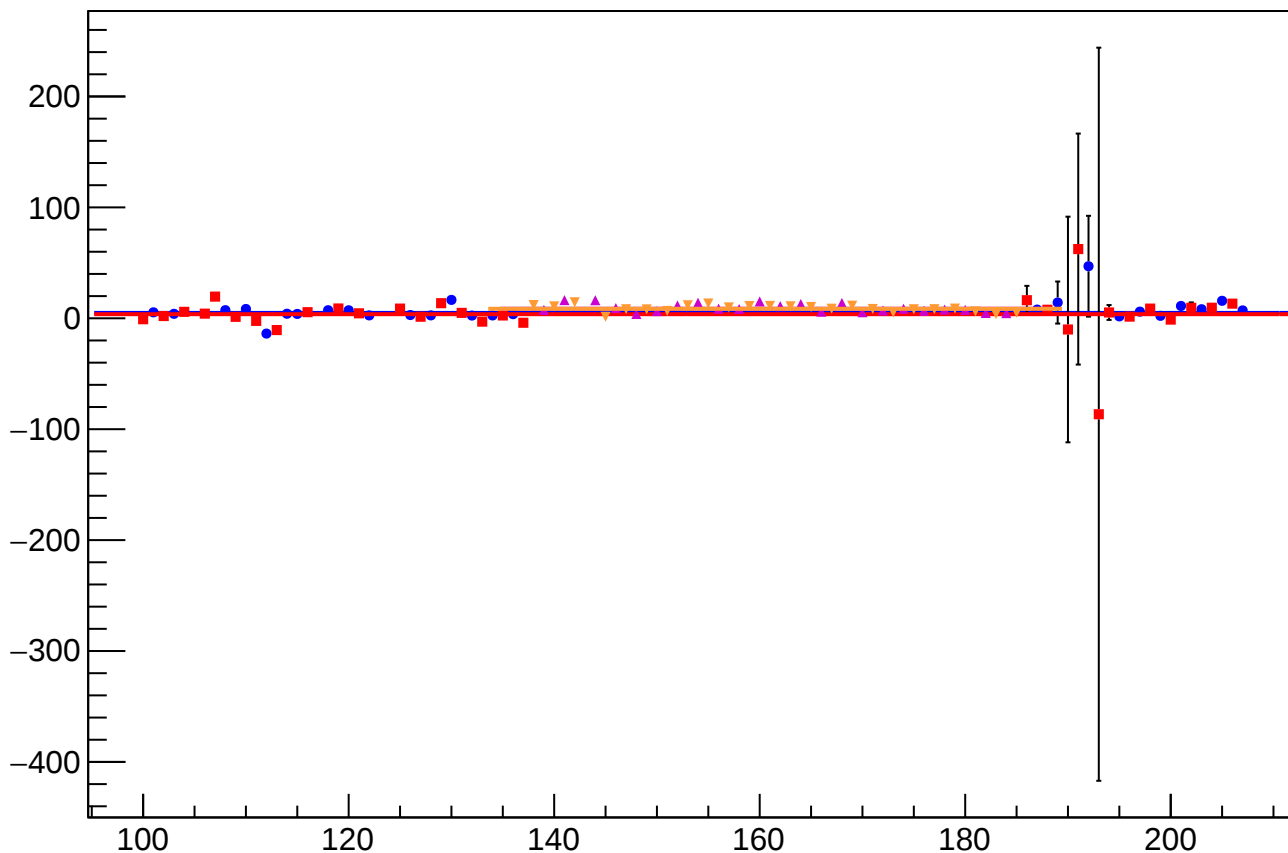
Right: 22.274 $\pm$ 0.254 χ^2 /NDF: 6354.2/55

In: 9.872 $\pm$ 0.169 χ^2 /NDF:5186.6/48

Out: 10.309 $\pm$ 0.168 χ^2 /NDF:6431.2/53

All: 10.092 $\pm$ 0.119 χ^2 /NDF: 11621.2/102

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.847 ± 0.250 $\chi^2/\text{NDF}: 558.9/25$

Left Out: 8.585 ± 0.169 $\chi^2/\text{NDF}: 245.5/23$

Right Out: 3.697 ± 0.250 $\chi^2/\text{NDF}: 588.9/29$

Left In: 8.585 ± 0.170 $\chi^2/\text{NDF}: 441.8/22$

Left: 8.585 ± 0.120 $\chi^2/\text{NDF}: 687.3/46$

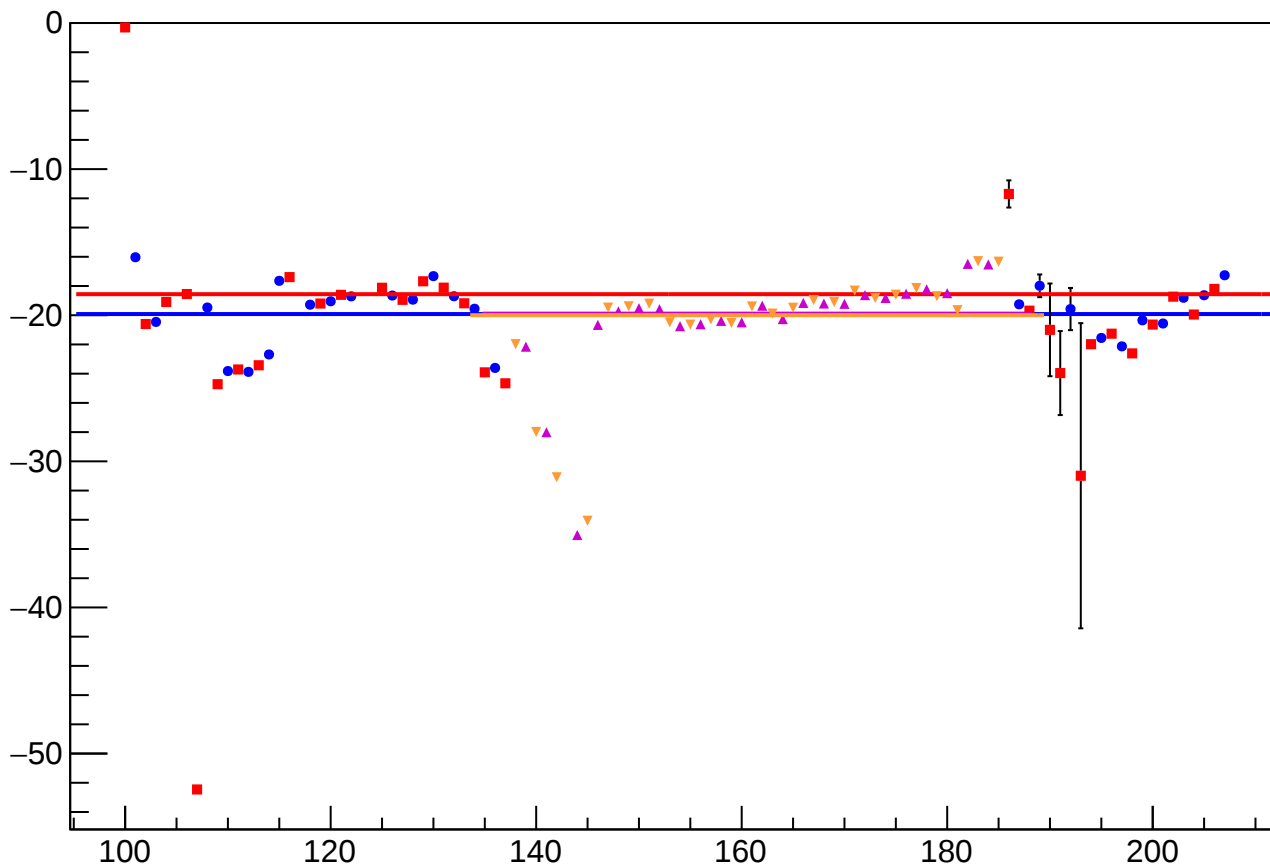
Right: 4.273 ± 0.177 $\chi^2/\text{NDF}: 1158.4/55$

In: 7.401 ± 0.141 $\chi^2/\text{NDF}: 1153.6/48$

Out: 7.055 ± 0.140 $\chi^2/\text{NDF}: 1096.7/53$

All: 7.228 ± 0.099 $\chi^2/\text{NDF}: 2253.4/102$

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected

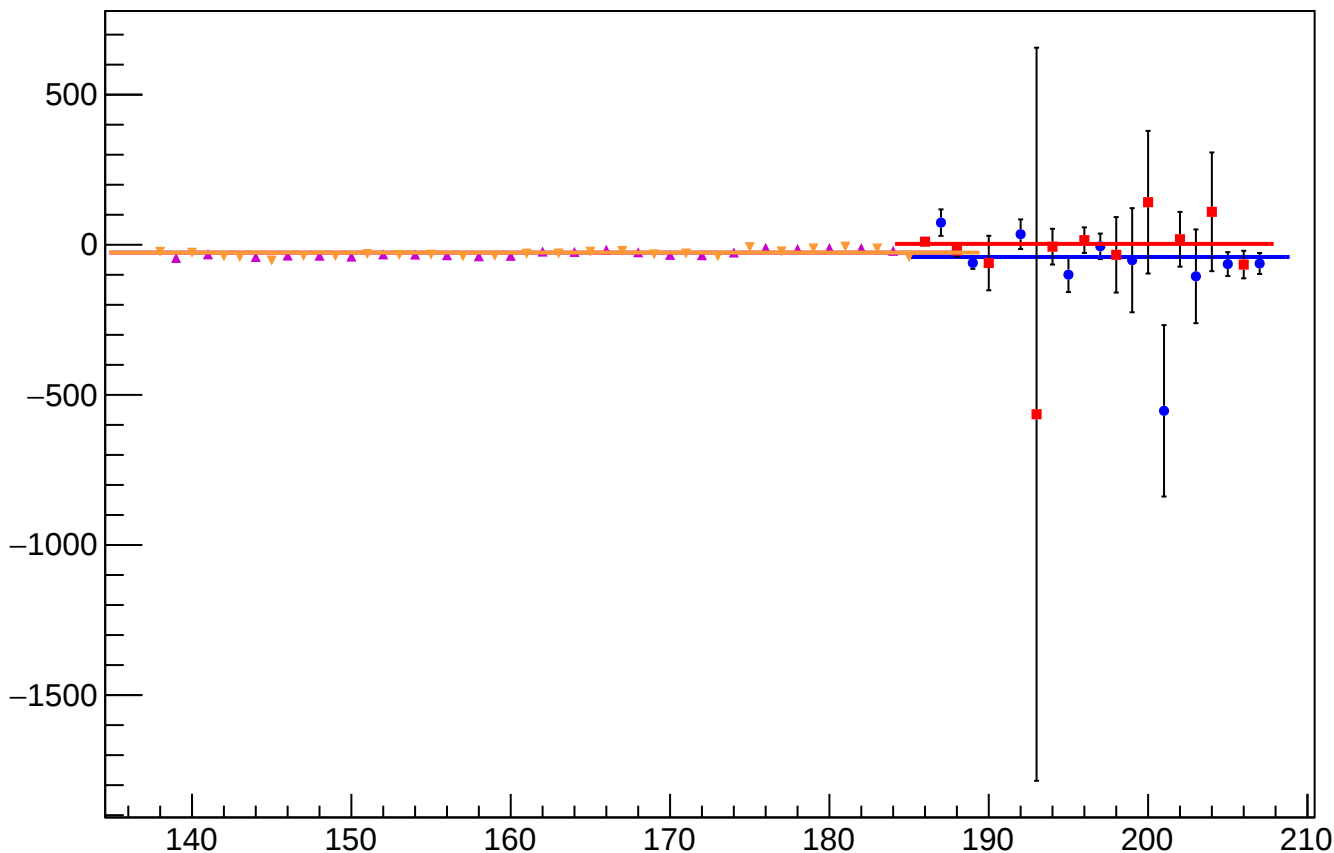


Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27088.2/25$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.559 ± 0.014 $\chi^2/\text{NDF}: 303724.1/29$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335231.2/55$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171146.5/48$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483602.2/53$

All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655362.1/102$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -40.706 ± 13.059 χ^2/NDF : 15.9/9

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 2.960 ± 8.120 χ^2/NDF : 5.6/10

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

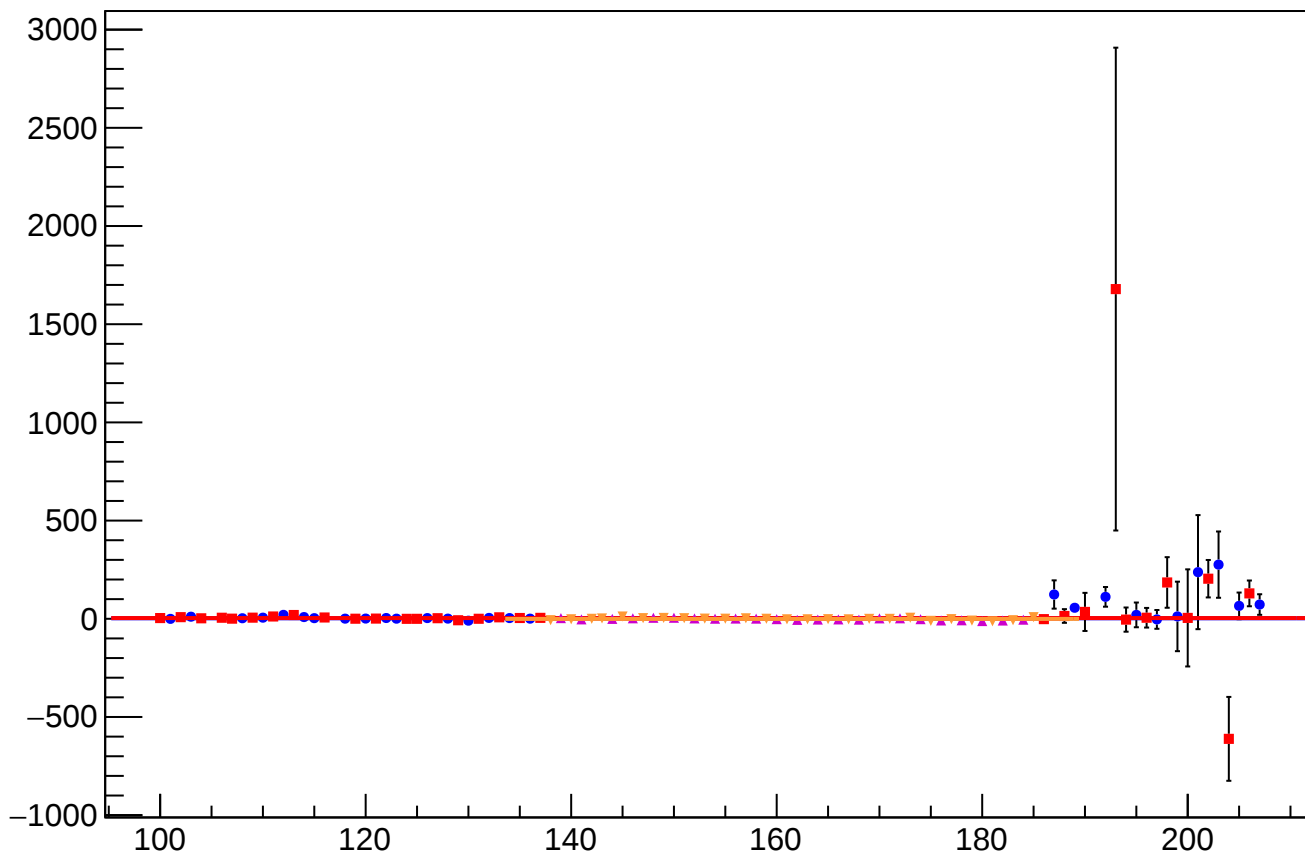
Right: -9.215 ± 6.896 χ^2/NDF : 29.6/20

In: -26.055 ± 0.195 χ^2/NDF : 3296.7/32

Out: -25.868 ± 0.192 χ^2/NDF : 4176.2/35

All: -25.960 ± 0.137 χ^2/NDF : 7473.3/68

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.477 ± 0.315 χ^2/NDF : 313.6/26

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.716 ± 0.327 χ^2/NDF : 289.7/29

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

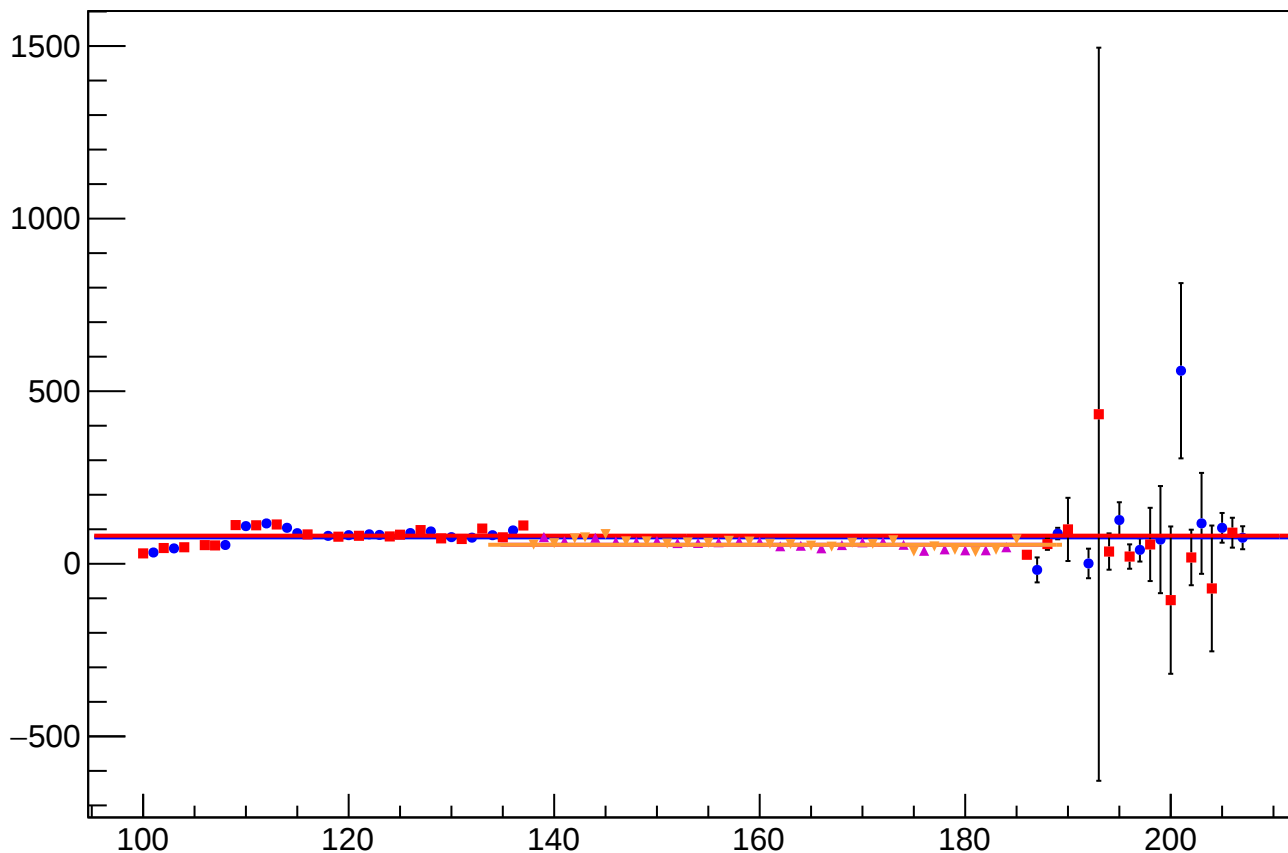
Right: 3.073 ± 0.227 χ^2/NDF : 610.8/56

In: -0.242 ± 0.136 χ^2/NDF : 1471.8/49

Out: 0.075 ± 0.133 χ^2/NDF : 1759.7/54

All: -0.081 ± 0.095 χ^2/NDF : 3234.3/104

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.534 $\pm$ 0.576 χ^2 /NDF: 2269.3/26

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.490 $\pm$ 0.590 χ^2 /NDF: 1632.6/29

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

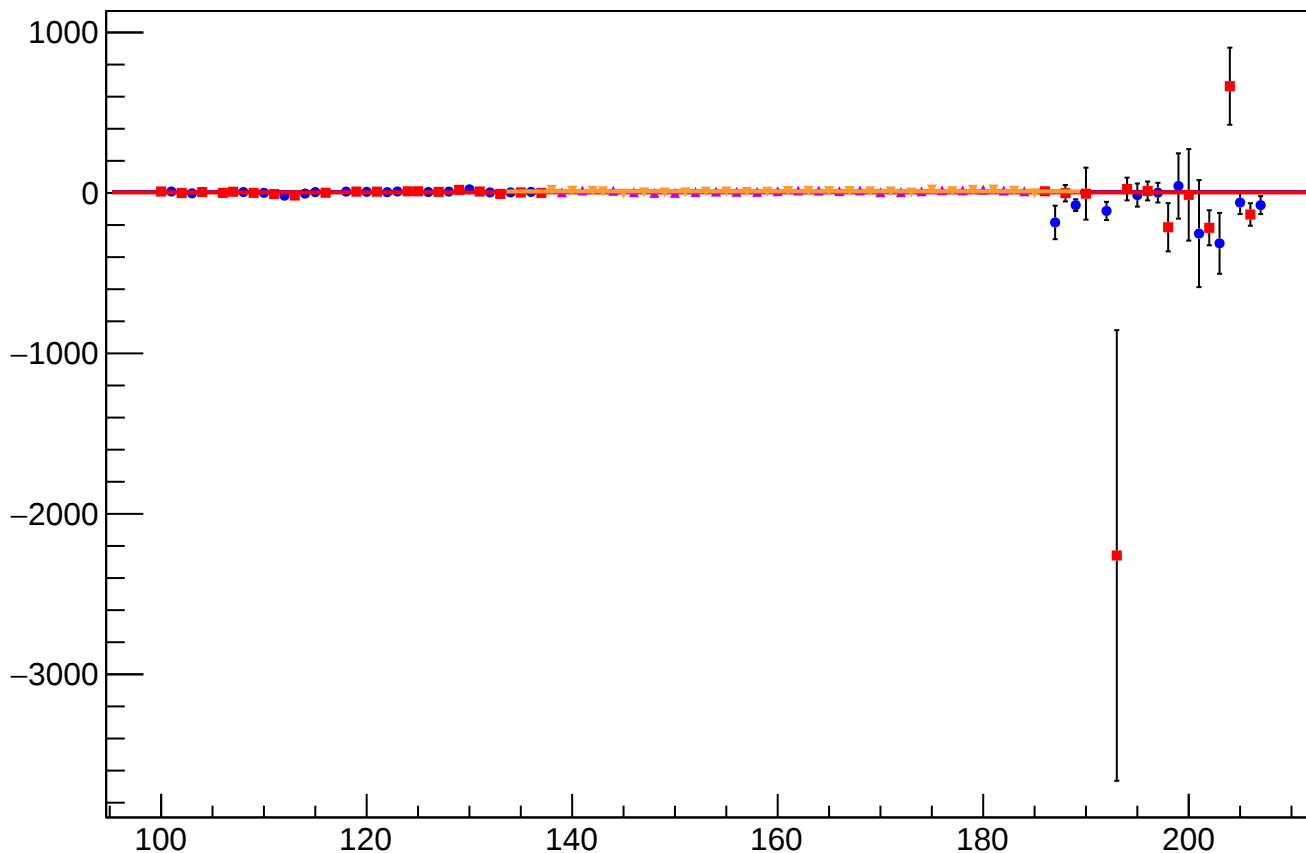
Right: 78.951 $\pm$ 0.412 χ^2 /NDF: 3938.1/56

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7219.2/49

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.5/54

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15240.7/104

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.406 $\pm$ 0.361 χ^2 /NDF: 404.7/26

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.579 $\pm$ 0.375 χ^2 /NDF: 442.1/29

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

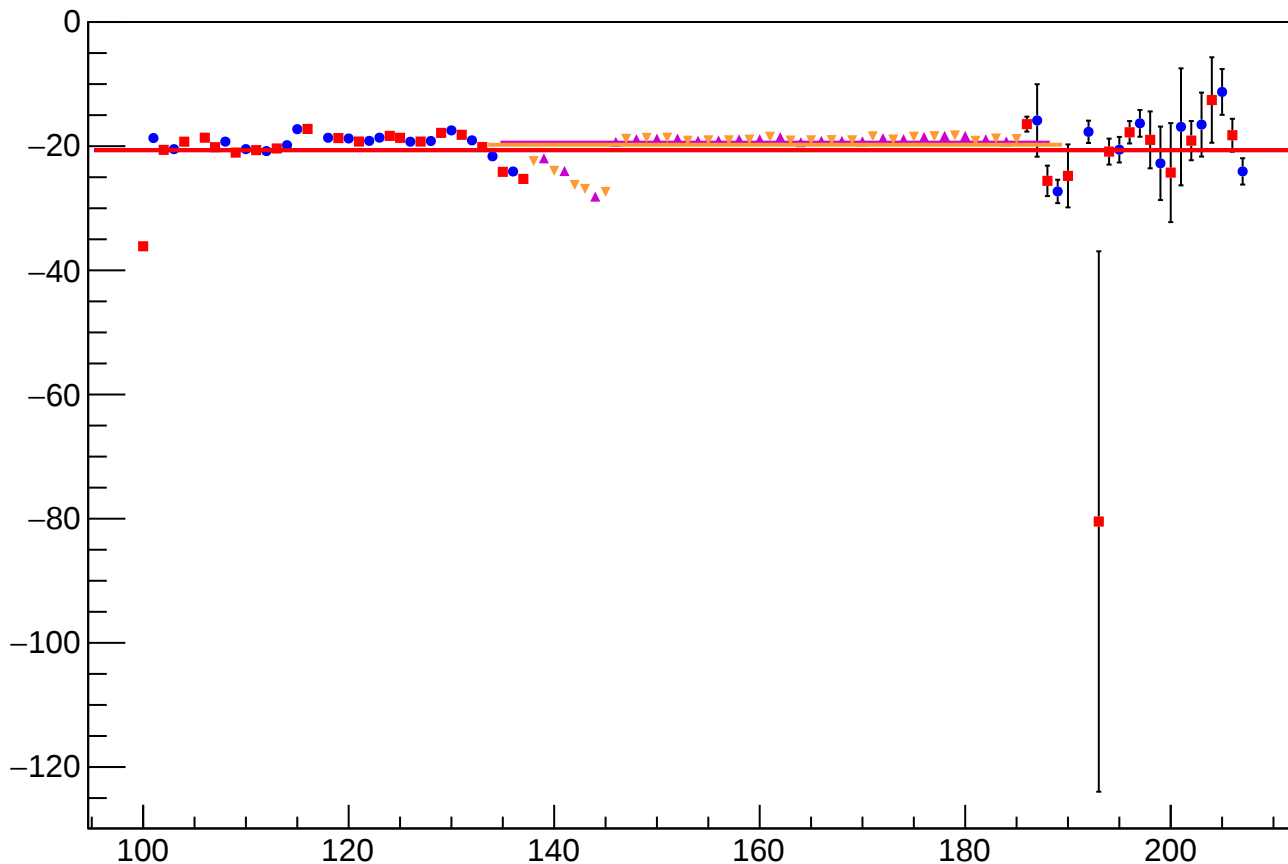
Right: 4.529 $\pm$ 0.260 χ^2 /NDF: 859.1/56

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1684.5/49

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2116.6/54

All: 8.850 $\pm$ 0.109 χ^2 /NDF: 3802.7/104

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12454.0/26

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13809.9/29

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

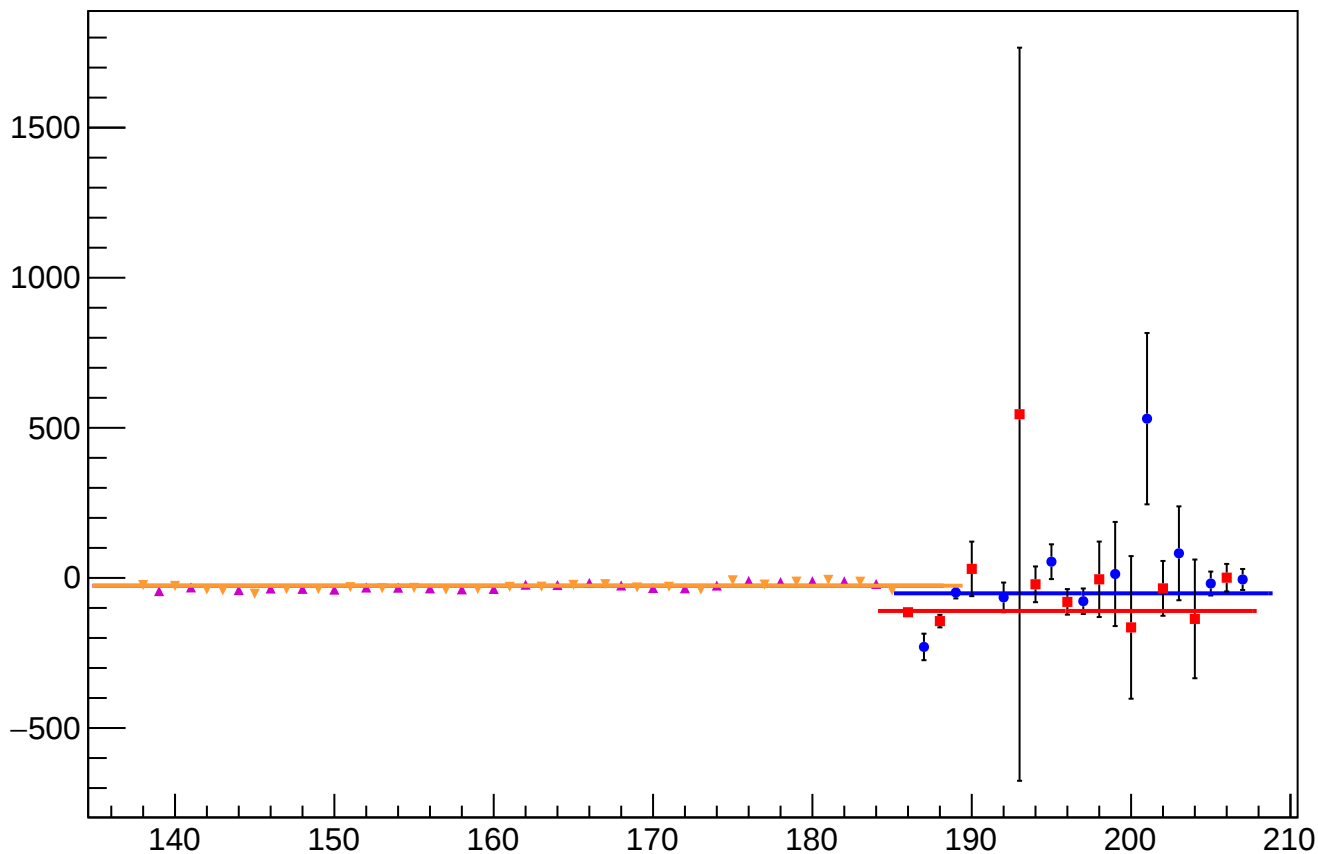
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26263.9/56

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68962.5/49

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107149.6/54

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176840.7/104

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -51.338 ± 13.069 χ^2/NDF : 27.6/9

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -110.029 ± 8.126 χ^2/NDF : 15.5/10

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

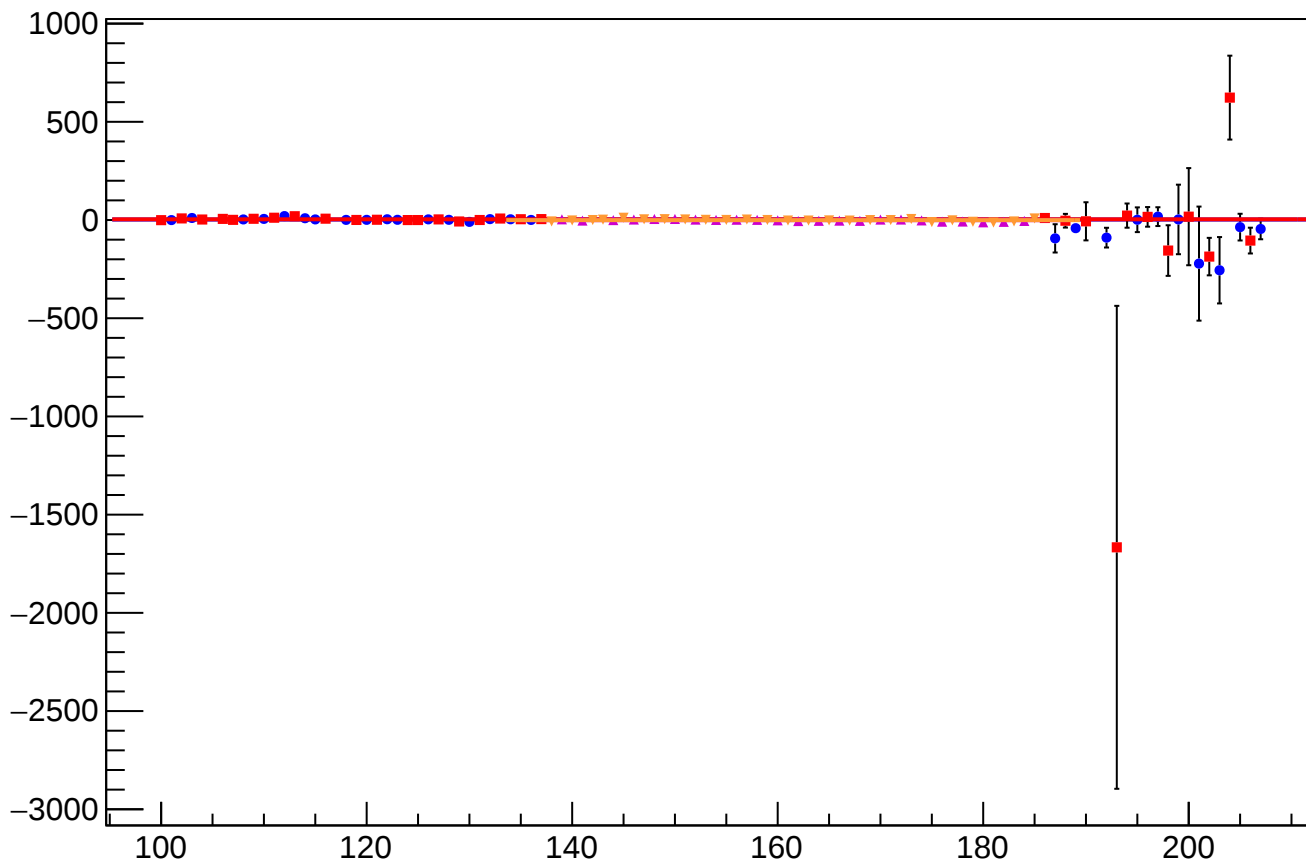
Right: -93.666 ± 6.901 χ^2/NDF : 57.6/20

In: -26.052 ± 0.195 χ^2/NDF : 3278.0/32

Out: -25.946 ± 0.192 χ^2/NDF : 4250.2/35

All: -25.998 ± 0.137 χ^2/NDF : 7528.4/68

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.438 ± 0.315 $\chi^2/\text{NDF}: 305.5/26$

Left Out: -0.596 ± 0.146 $\chi^2/\text{NDF}: 1310.7/24$

Right Out: 3.593 ± 0.318 $\chi^2/\text{NDF}: 299.1/29$

Left In: -0.795 ± 0.151 $\chi^2/\text{NDF}: 1106.3/22$

Left: -0.693 ± 0.105 $\chi^2/\text{NDF}: 2417.9/47$

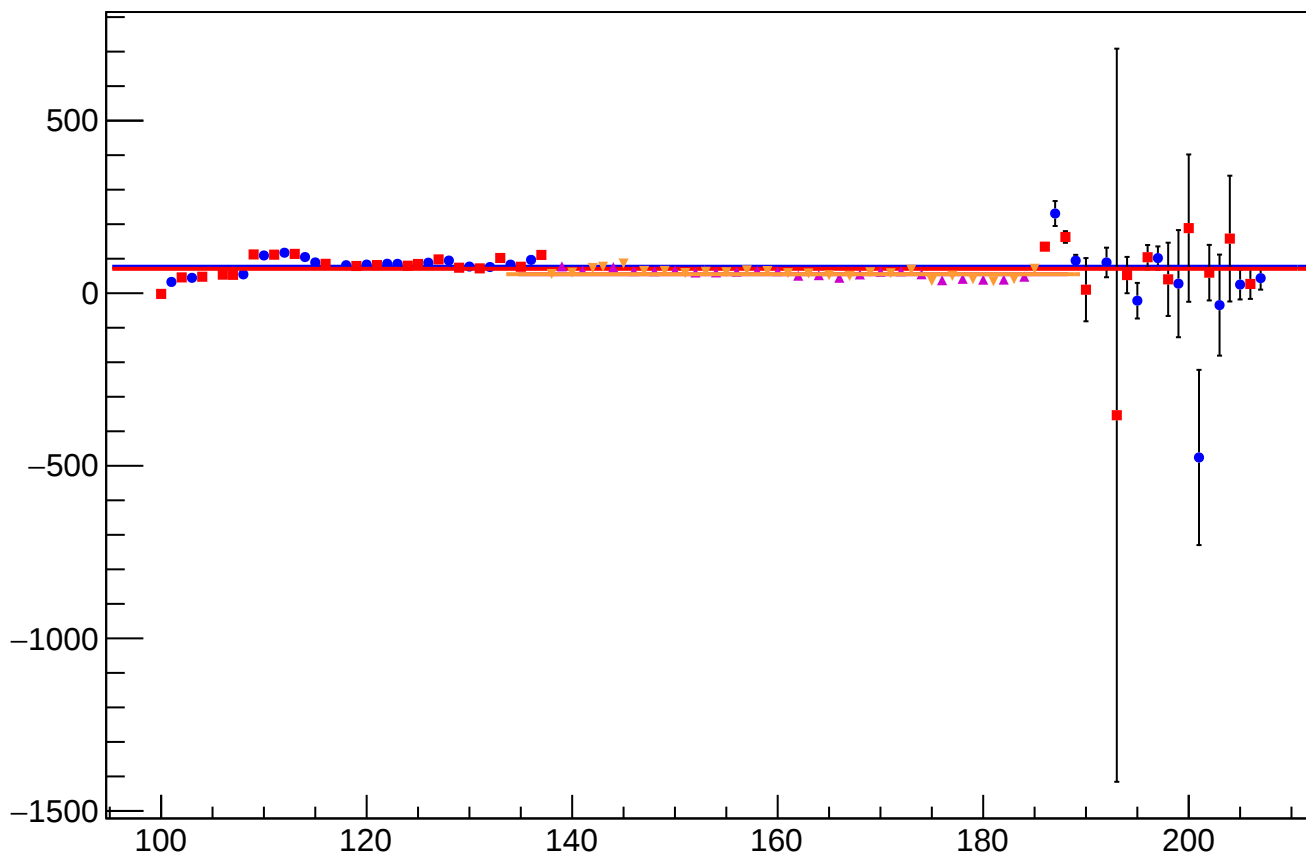
Right: 3.010 ± 0.224 $\chi^2/\text{NDF}: 611.2/56$

In: -0.194 ± 0.136 $\chi^2/\text{NDF}: 1497.5/49$

Out: 0.136 ± 0.133 $\chi^2/\text{NDF}: 1753.0/54$

All: -0.025 ± 0.095 $\chi^2/\text{NDF}: 3253.5/104$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.708+/-0.576 χ^2/NDF : 2296.3/26

Left Out: 55.111+/-0.192 χ^2/NDF : 4560.2/24

Right Out: 70.749+/-0.549 χ^2/NDF : 4492.4/29

Left In: 55.094+/-0.194 χ^2/NDF : 3664.6/22

Left: 55.103+/-0.136 χ^2/NDF : 8224.8/47

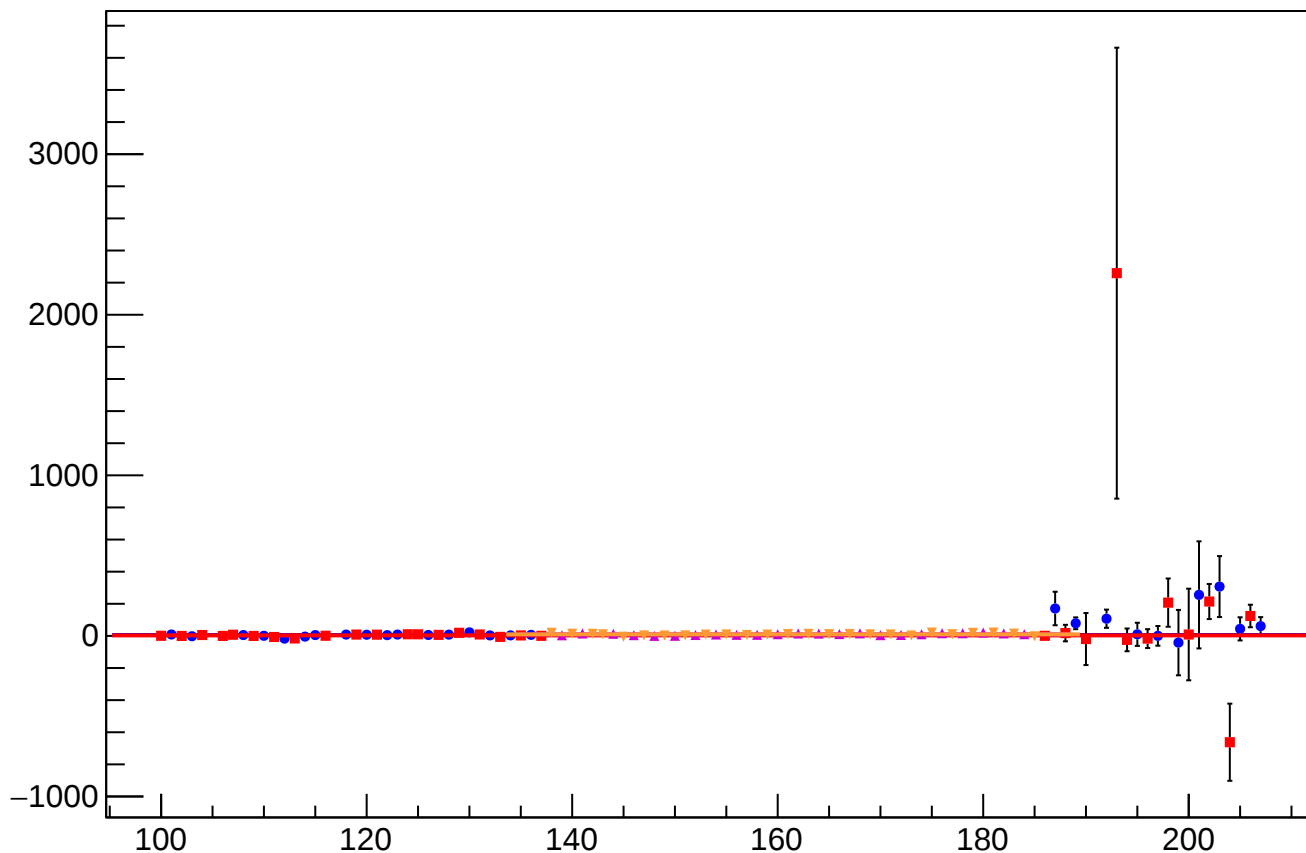
Right: 73.581+/-0.397 χ^2/NDF : 6844.8/56

In: 57.285+/-0.184 χ^2/NDF : 7224.2/49

Out: 56.811+/-0.181 χ^2/NDF : 9776.7/54

All: 57.044+/-0.129 χ^2/NDF : 17004.3/104

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.446 $\pm$ 0.361 χ^2 /NDF: 398.3/26

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 444.2/29

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

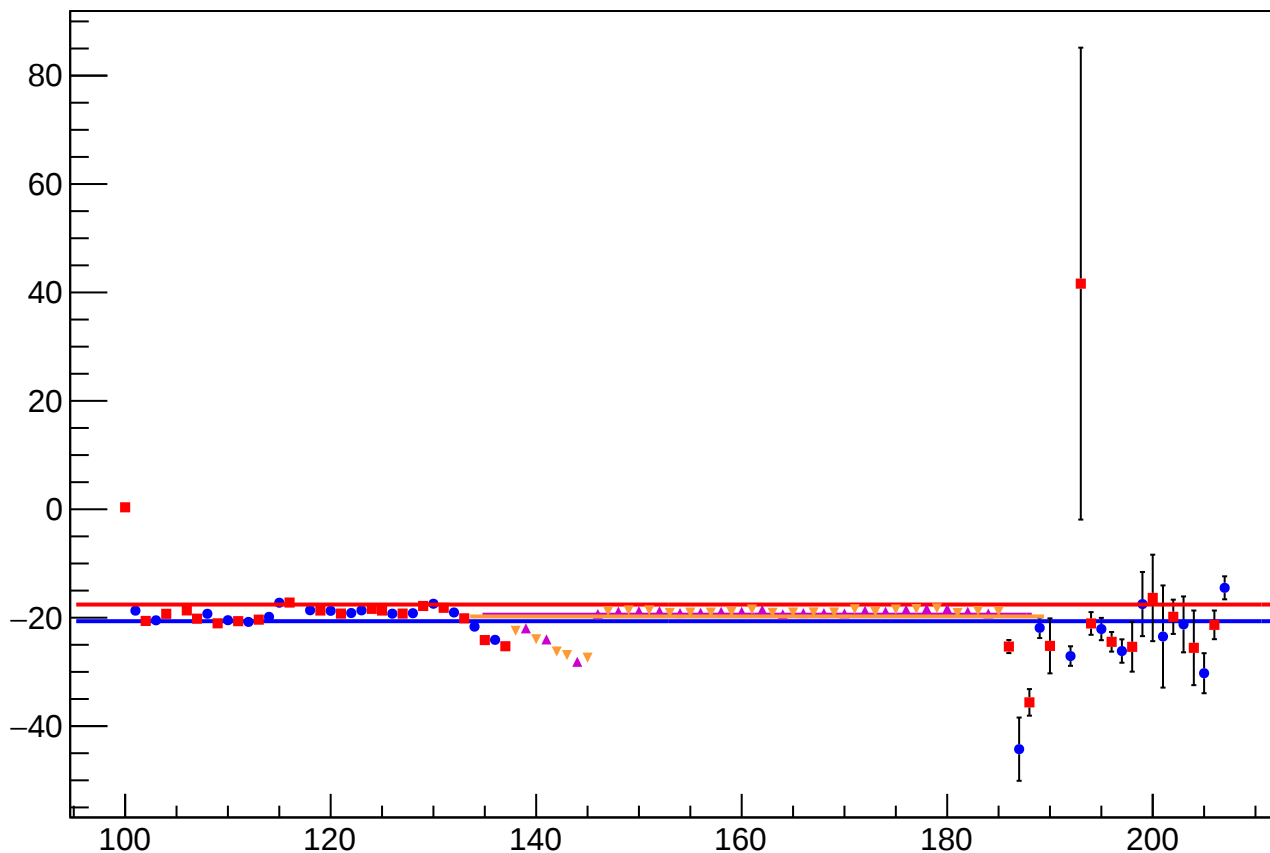
Right: 4.378 $\pm$ 0.257 χ^2 /NDF: 860.2/56

In: 8.946 $\pm$ 0.155 χ^2 /NDF:1704.7/49

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2138.2/54

All: 8.751 $\pm$ 0.109 χ^2 /NDF: 3845.9/104

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 $\pm$ 0.019 χ^2 /NDF: 12514.8/26

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.575 $\pm$ 0.018 χ^2 /NDF: 178441.6/29

Left In: -19.445 $\pm$ 0.008 χ^2 /NDF: 53124.1/22

Left: -19.611 $\pm$ 0.006 χ^2 /NDF: 145502.5/47

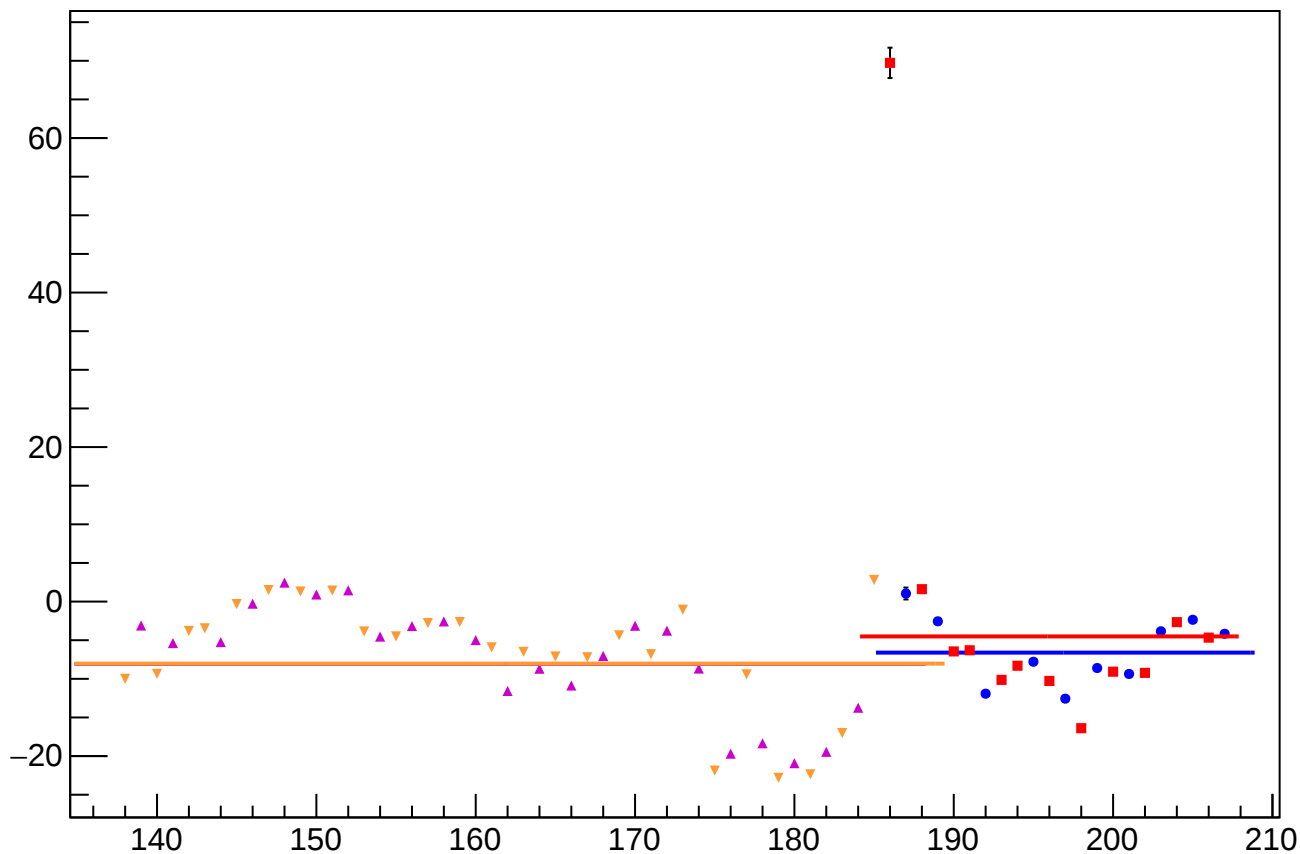
Right: -19.003 $\pm$ 0.013 χ^2 /NDF: 204426.6/56

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68936.3/49

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282429.1/54

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351728.6/104

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



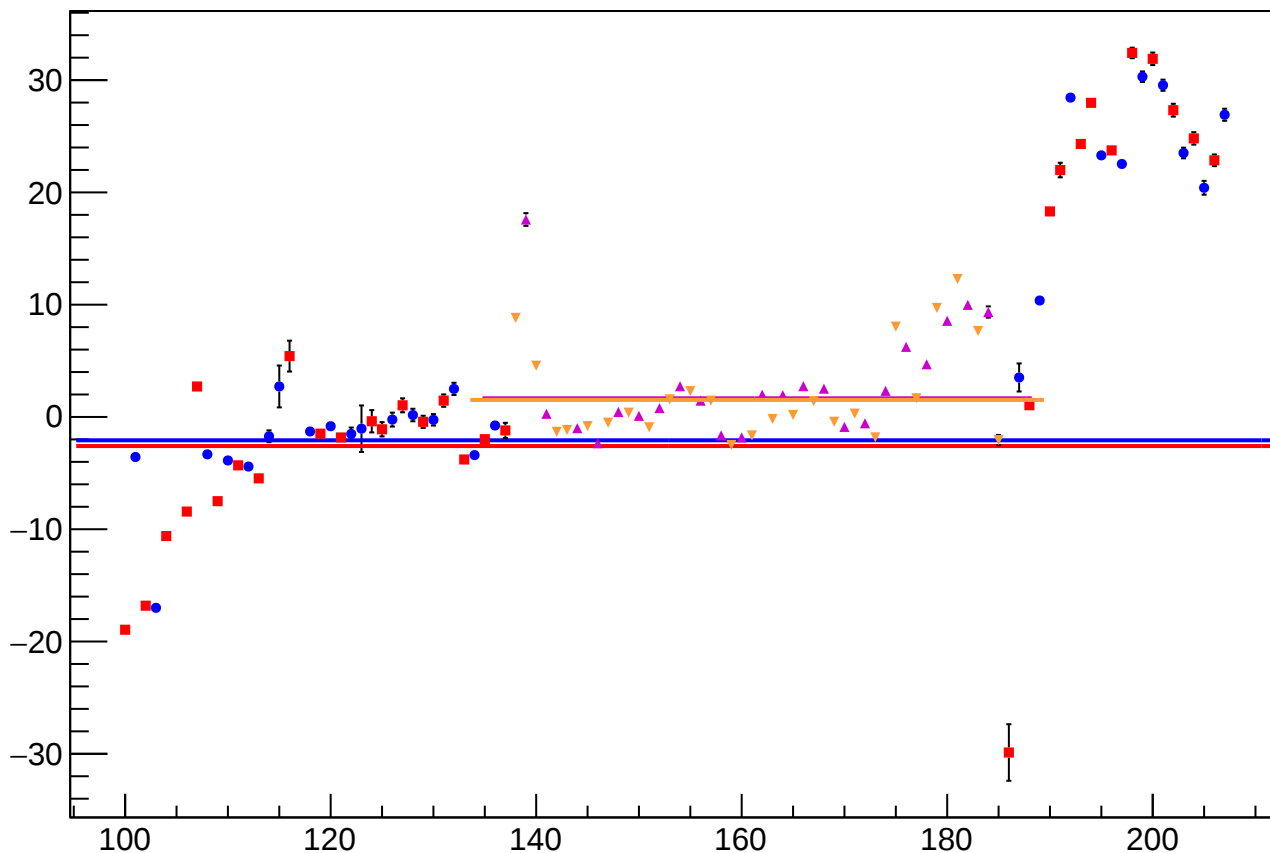
Right In: -6.607 ± 0.128 χ^2/NDF : 957.2/9
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -4.511 ± 0.108 χ^2/NDF : 3924.1/11
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -5.382 ± 0.082 χ^2/NDF : 5038.5/21

In: -7.724 ± 0.063 χ^2/NDF : 11599.4/32
 Out: -6.983 ± 0.059 χ^2/NDF : 17241.6/36

All: -7.330 ± 0.043 χ^2/NDF : 28915.3/69

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.079 ± 0.052 $\chi^2/\text{NDF}: 43209.5/26$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -2.591 ± 0.054 $\chi^2/\text{NDF}: 53658.6/30$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

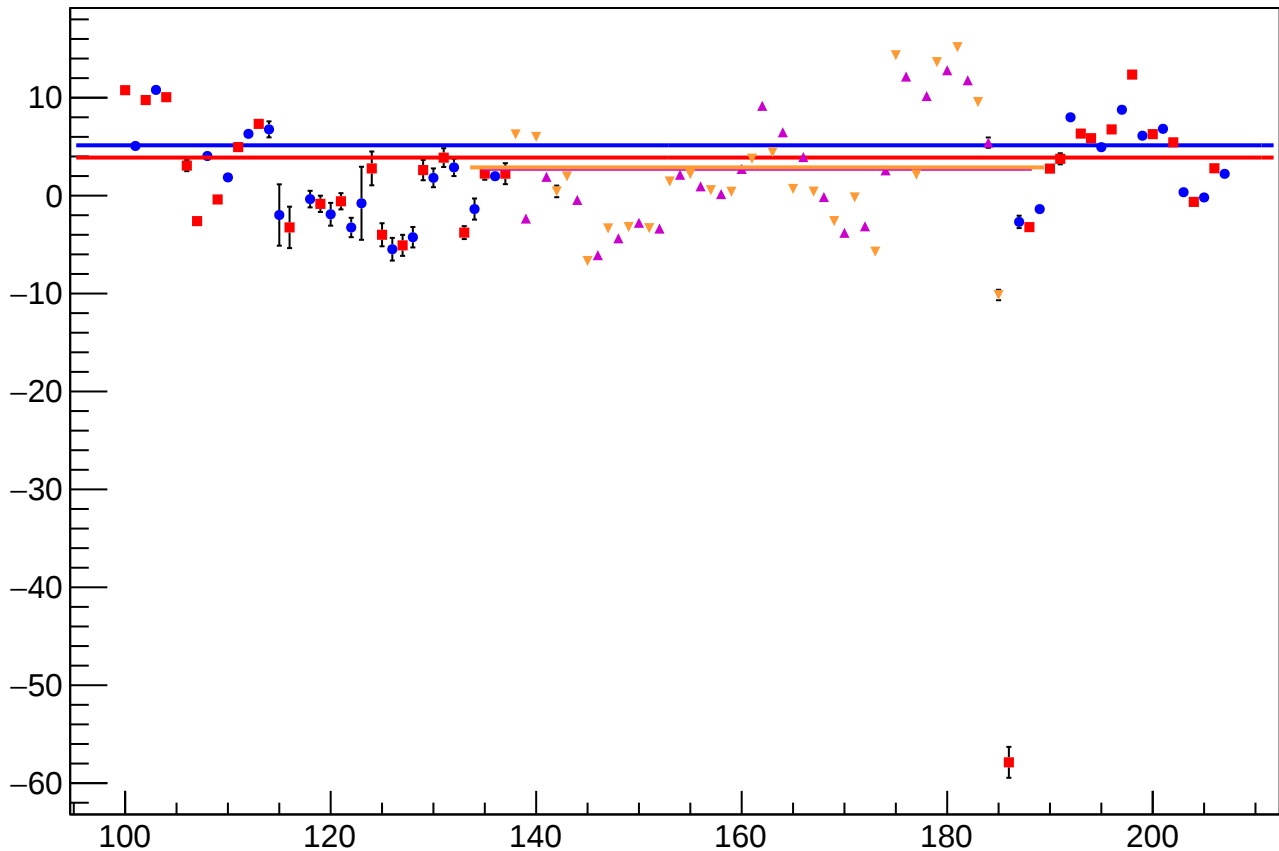
Right: -2.324 ± 0.037 $\chi^2/\text{NDF}: 96915.4/57$

In: -0.380 ± 0.038 $\chi^2/\text{NDF}: 49630.3/49$

Out: -0.555 ± 0.038 $\chi^2/\text{NDF}: 61388.7/55$

All: -0.467 ± 0.027 $\chi^2/\text{NDF}: 111029.6/105$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.139 ± 0.071 $\chi^2/\text{NDF}: 2649.0/26$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.888 ± 0.066 $\chi^2/\text{NDF}: 7787.9/30$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

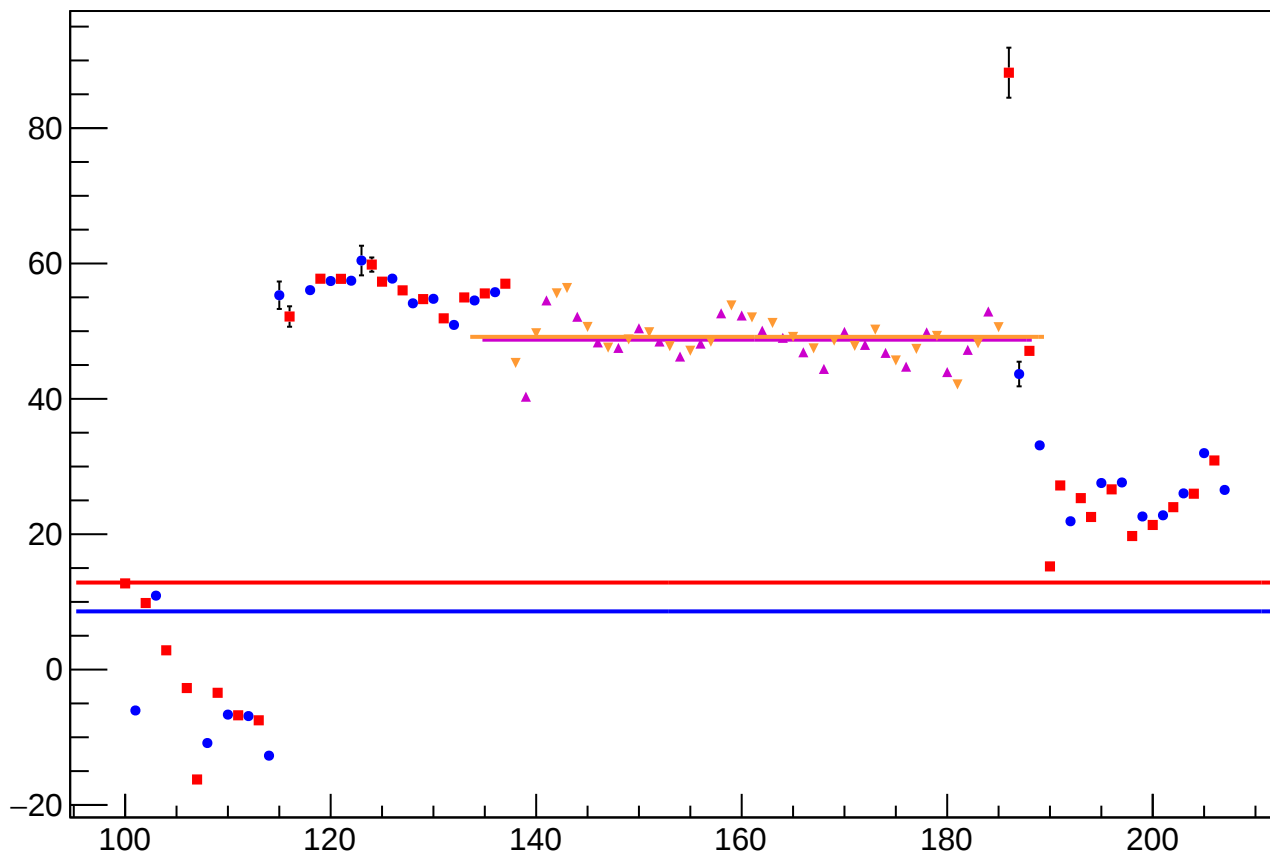
Right: 4.471 ± 0.049 $\chi^2/\text{NDF}: 10602.4/57$

In: 3.948 ± 0.050 $\chi^2/\text{NDF}: 10396.1/49$

Out: 3.414 ± 0.048 $\chi^2/\text{NDF}: 16788.9/55$

All: 3.670 ± 0.035 $\chi^2/\text{NDF}: 27243.5/105$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.600 $\pm$ 0.061 χ^2 /NDF: 132459.1/26

Left Out: 49.163 $\pm$ 0.062 χ^2 /NDF: 2259.9/24

Right Out: 12.861 $\pm$ 0.064 χ^2 /NDF: 135566.9/30

Left In: 48.744 $\pm$ 0.064 χ^2 /NDF: 2097.7/22

Left: 48.960 $\pm$ 0.044 χ^2 /NDF: 4380.0/47

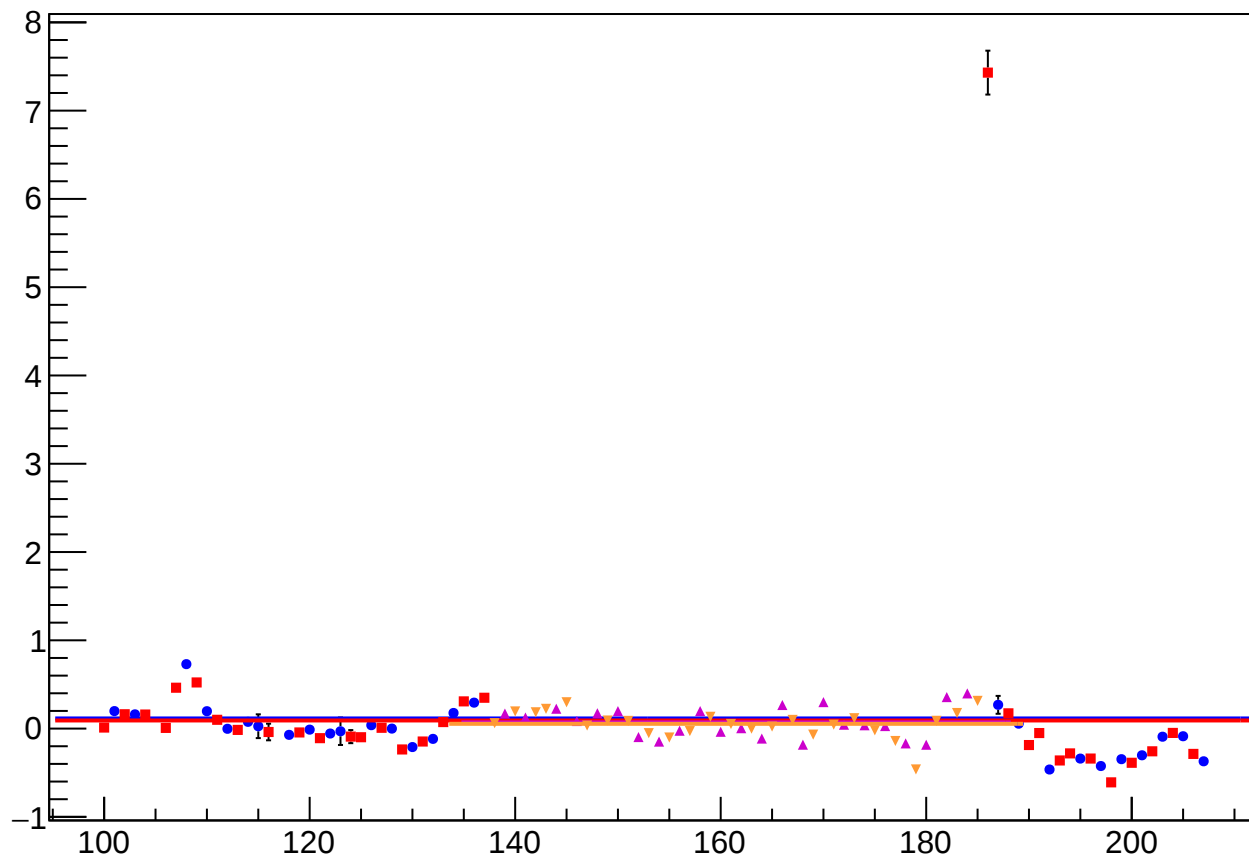
Right: 10.622 $\pm$ 0.044 χ^2 /NDF: 270349.9/57

In: 27.748 $\pm$ 0.044 χ^2 /NDF: 341844.6/49

Out: 31.681 $\pm$ 0.044 χ^2 /NDF: 304317.3/55

All: 29.696 $\pm$ 0.031 χ^2 /NDF: 650112.9/105

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.115 $\pm$ 0.002 χ^2 /NDF: 11506.8/26

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.092 $\pm$ 0.002 χ^2 /NDF: 10932.8/30

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

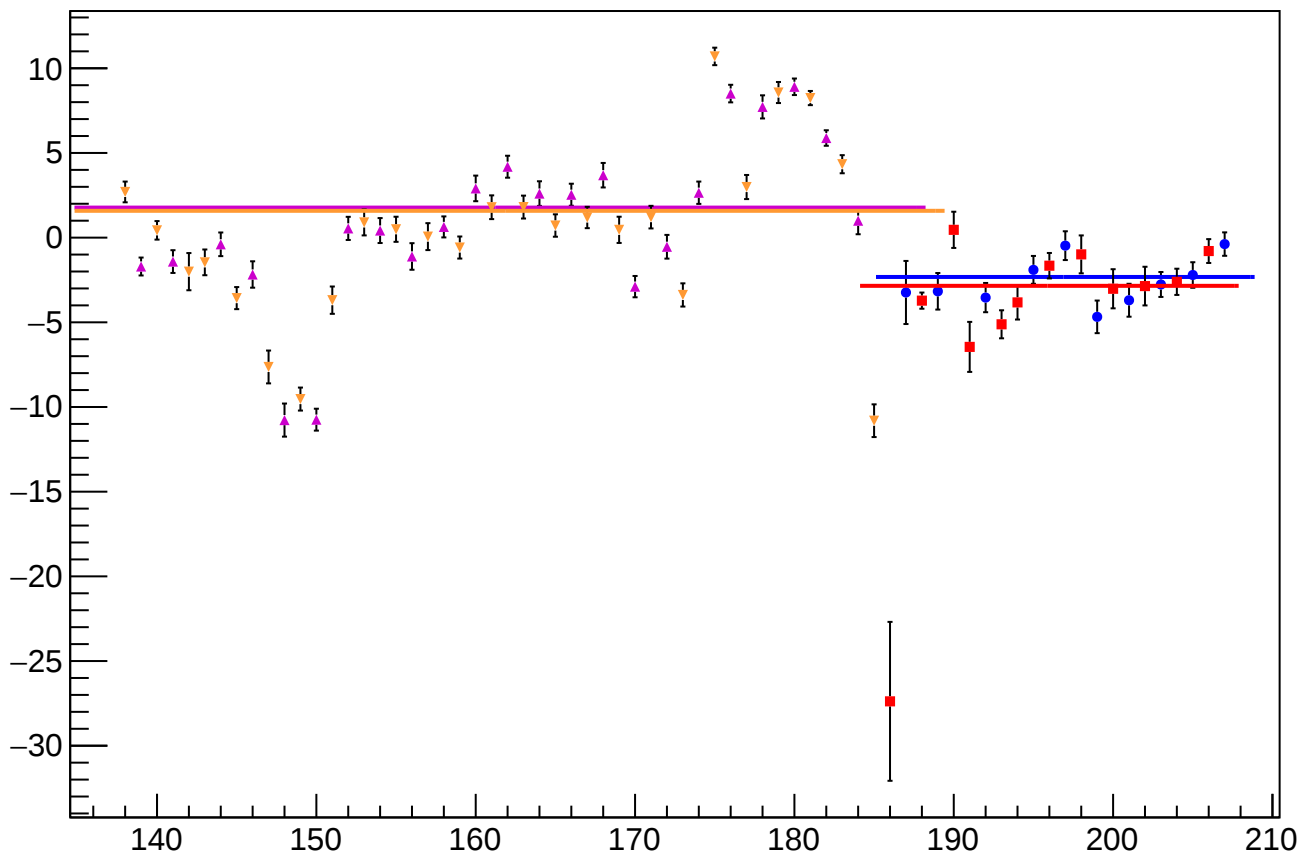
Right: 0.103 $\pm$ 0.002 χ^2 /NDF: 22482.9/57

In: 0.096 $\pm$ 0.002 χ^2 /NDF:14877.8/49

Out: 0.076 $\pm$ 0.002 χ^2 /NDF:13418.4/55

All: 0.086 $\pm$ 0.001 χ^2 /NDF: 28351.4/105

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.322+/-0.275 χ^2/NDF : 24.1/9

Left Out: 1.584+/-0.133 χ^2/NDF :1458.8/24

Right Out: -2.846+/-0.250 χ^2/NDF : 68.6/11

Left In: 1.774+/-0.135 χ^2/NDF :1297.3/22

Left: 1.677+/-0.095 χ^2/NDF : 2757.2/47

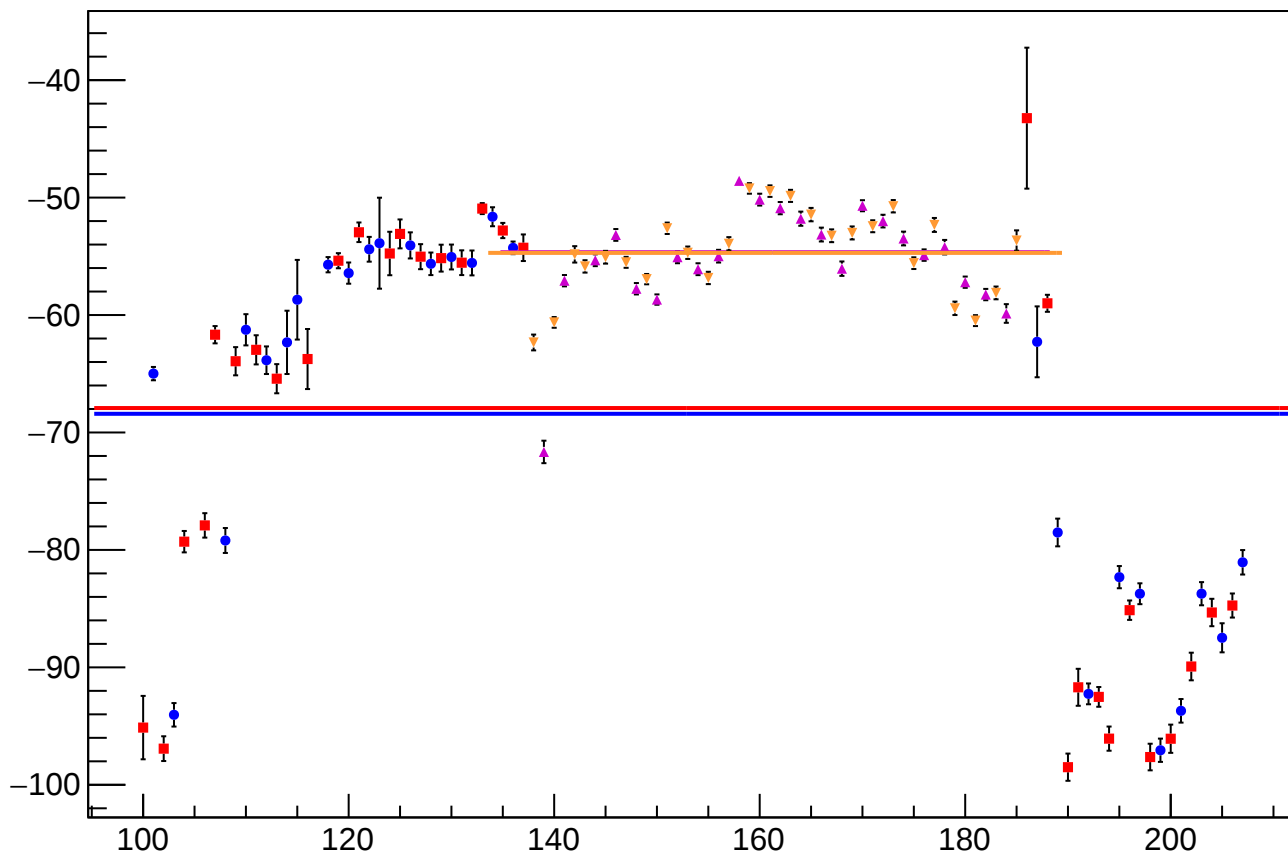
Right: -2.609+/-0.185 χ^2/NDF : 94.7/21

In: 0.978+/-0.121 χ^2/NDF :1499.7/32

Out: 0.611+/-0.117 χ^2/NDF :1772.2/36

All: 0.788+/-0.084 χ^2/NDF : 3276.6/69

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -68.410 $\pm$ 0.186 χ^2 /NDF: 6780.5/26

Left Out: -54.707 $\pm$ 0.106 χ^2 /NDF:1126.0/24

Right Out: -67.919 $\pm$ 0.174 χ^2 /NDF: 9729.6/30

Left In: -54.650 $\pm$ 0.110 χ^2 /NDF:1077.1/22

Left: -54.680 $\pm$ 0.076 χ^2 /NDF: 2203.2/47

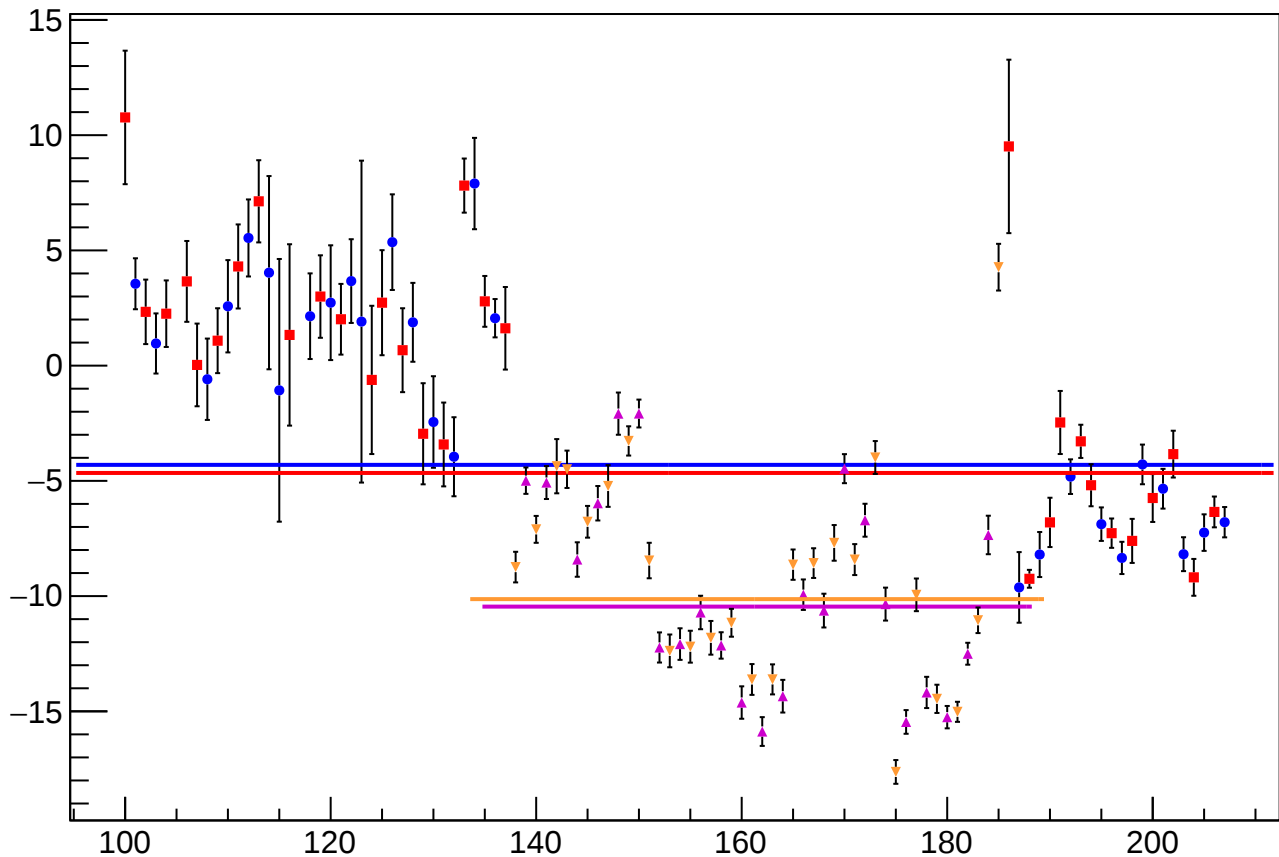
Right: -68.148 $\pm$ 0.127 χ^2 /NDF: 16513.9/57

In: -58.197 $\pm$ 0.095 χ^2 /NDF:11907.2/49

Out: -58.266 $\pm$ 0.090 χ^2 /NDF:15064.6/55

All: -58.233 $\pm$ 0.065 χ^2 /NDF: 26972.1/105

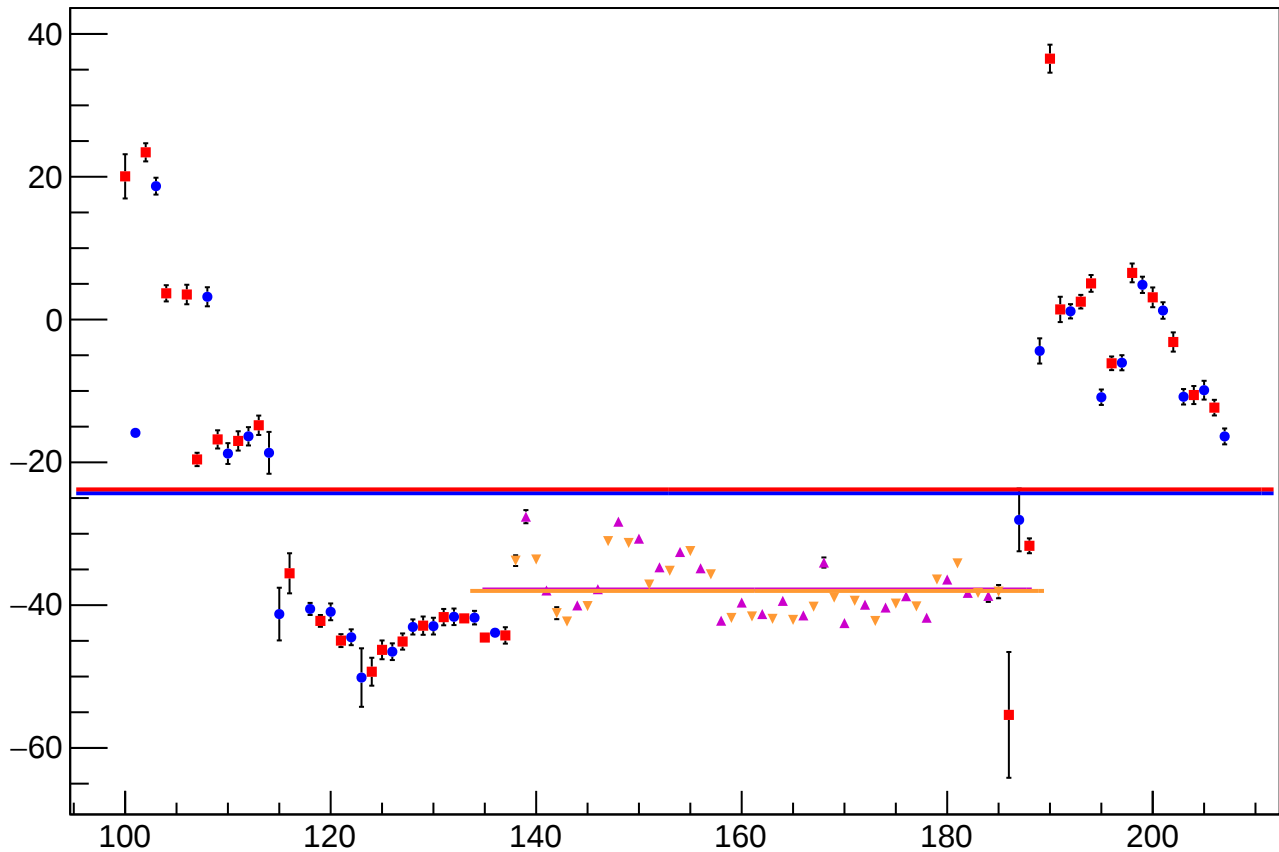
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.305 ± 0.215 $\chi^2/\text{NDF}: 425.8/26$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.657 ± 0.192 $\chi^2/\text{NDF}: 653.6/30$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.501 ± 0.143 $\chi^2/\text{NDF}: 1080.9/57$
 In: -8.720 ± 0.114 $\chi^2/\text{NDF}: 2017.5/49$
 Out: -8.358 ± 0.109 $\chi^2/\text{NDF}: 2259.4/55$
 All: -8.531 ± 0.079 $\chi^2/\text{NDF}: 4282.1/105$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.328 ± 0.213 χ^2/NDF : 8404.8/26

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -23.788 ± 0.203 χ^2/NDF : 11601.5/30

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

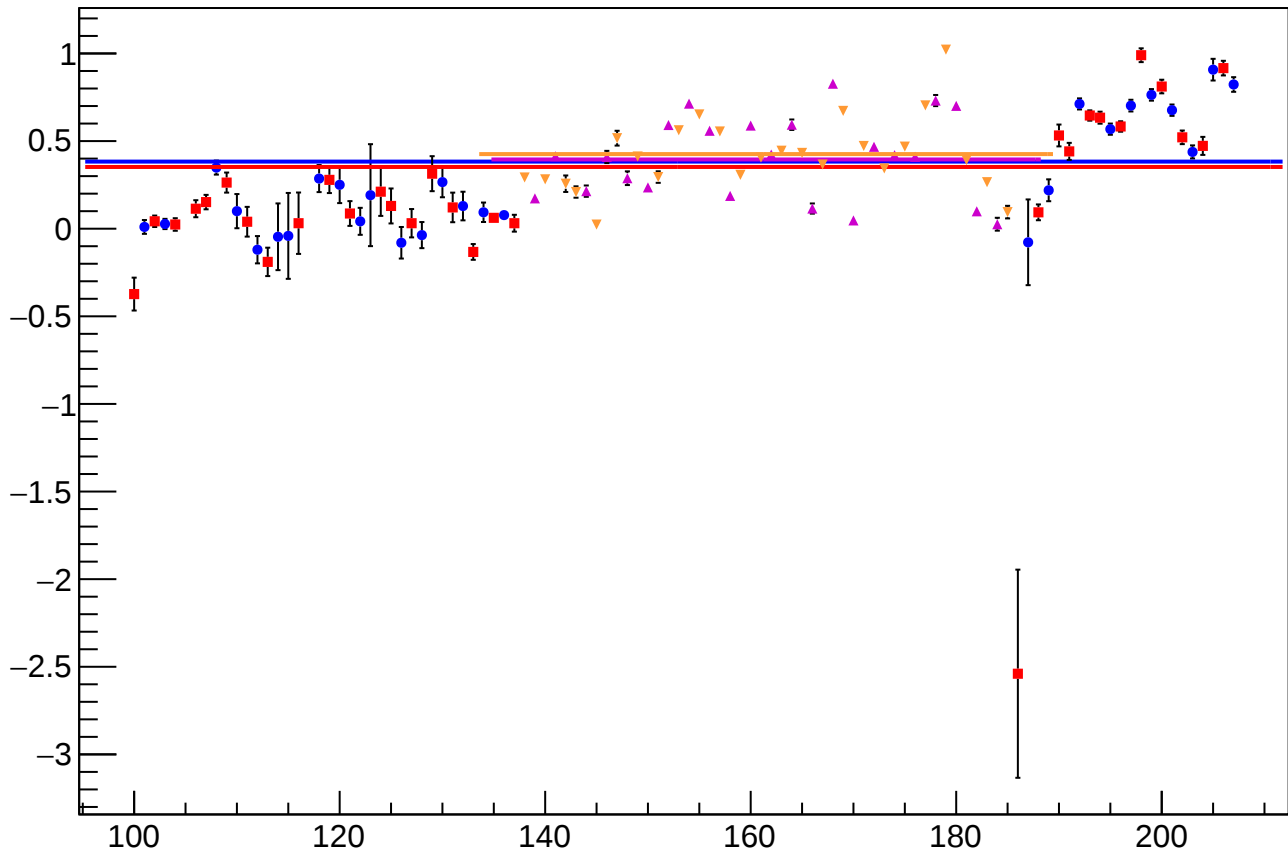
Right: -24.045 ± 0.147 χ^2/NDF : 20009.7/57

In: -34.458 ± 0.106 χ^2/NDF : 12465.3/49

Out: -34.378 ± 0.102 χ^2/NDF : 16206.1/55

All: -34.417 ± 0.074 χ^2/NDF : 28671.6/105

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.383 ± 0.009 χ^2/NDF : 1250.7/26

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.352 ± 0.008 χ^2/NDF : 1574.8/30

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

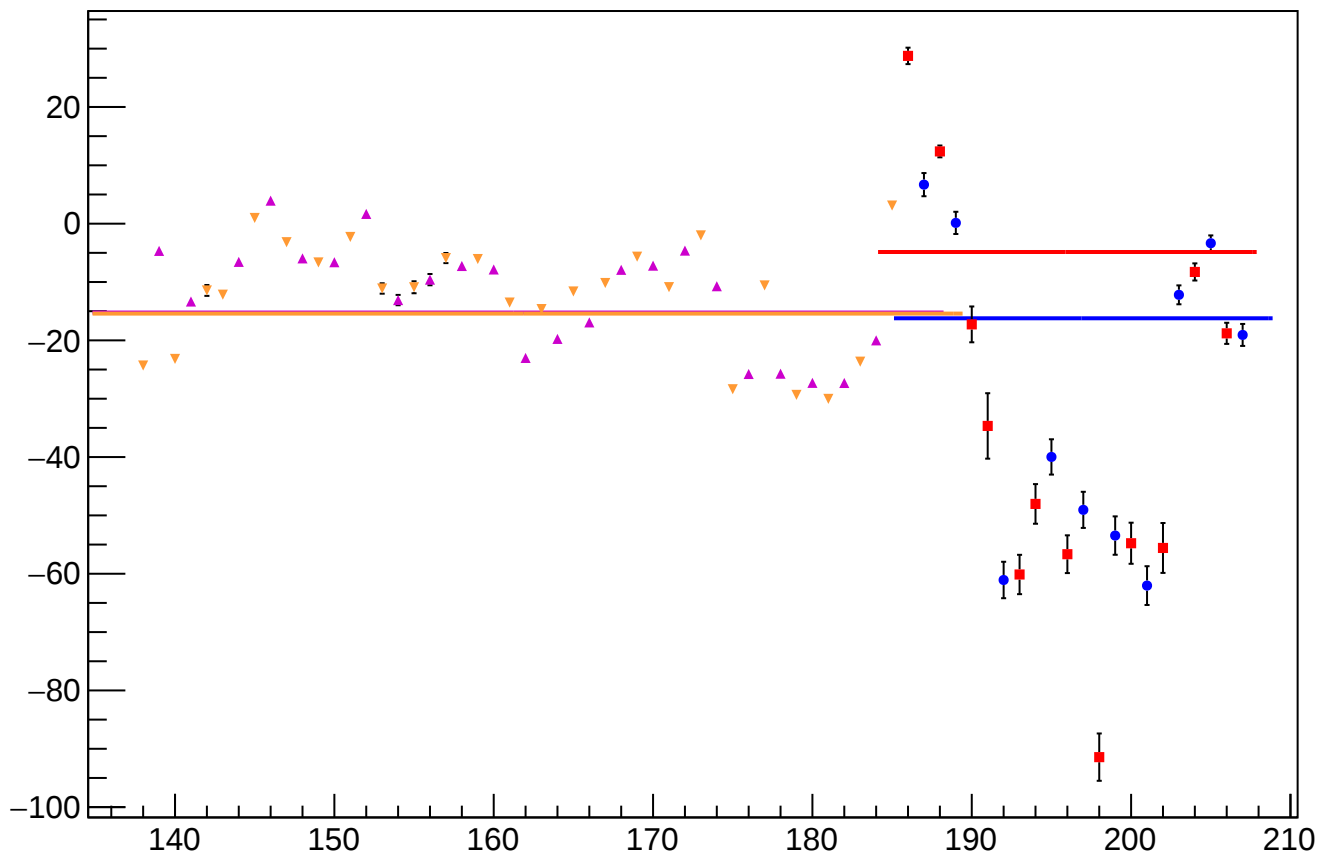
Right: 0.367 ± 0.006 χ^2/NDF : 2831.7/57

In: 0.392 ± 0.005 χ^2/NDF : 3050.2/49

Out: 0.405 ± 0.005 χ^2/NDF : 2932.2/55

All: 0.398 ± 0.003 χ^2/NDF : 5986.4/105

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.216 ± 0.667 $\chi^2/\text{NDF}: 1006.2/9$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.855 ± 0.592 $\chi^2/\text{NDF}: 2451.6/11$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

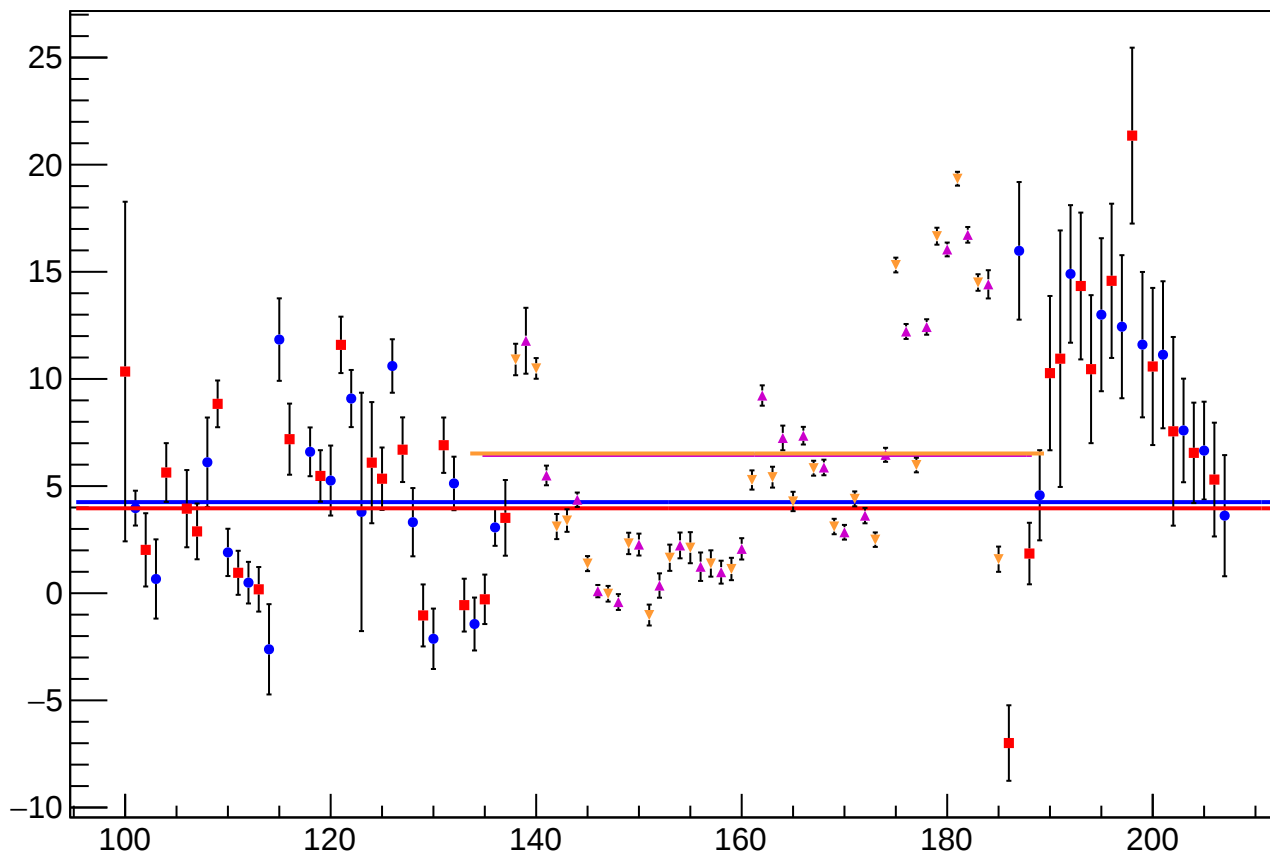
Right: -9.864 ± 0.443 $\chi^2/\text{NDF}: 3620.1/21$

In: -15.254 ± 0.105 $\chi^2/\text{NDF}: 9665.6/32$

Out: -15.090 ± 0.104 $\chi^2/\text{NDF}: 13268.9/36$

All: -15.170 ± 0.074 $\chi^2/\text{NDF}: 22935.7/69$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.252 $\pm$ 0.294 χ^2 /NDF: 186.6/26

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.962 $\pm$ 0.293 χ^2 /NDF: 223.7/30

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

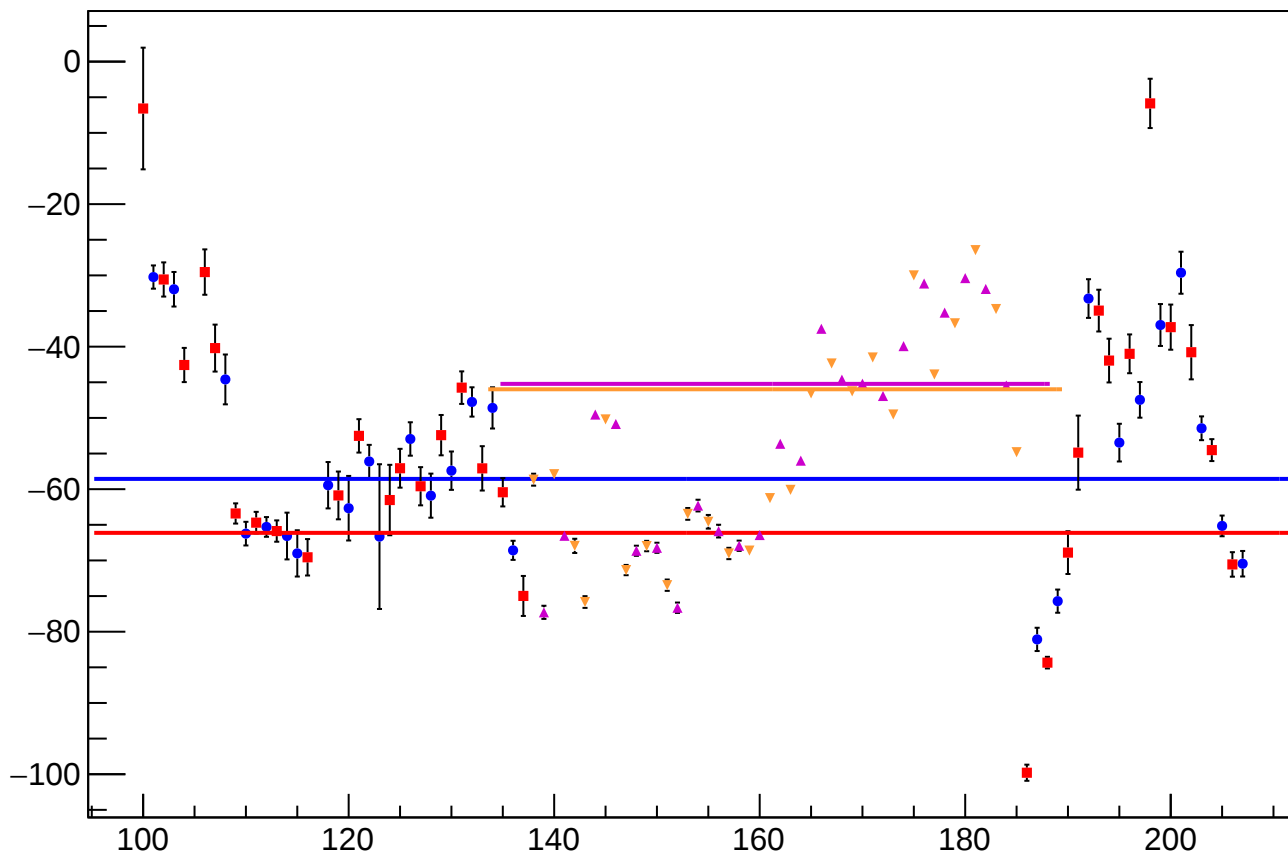
Right: 4.107 $\pm$ 0.207 χ^2 /NDF: 410.8/57

In: 6.278 $\pm$ 0.083 χ^2 /NDF:4186.3/49

Out: 6.321 $\pm$ 0.082 χ^2 /NDF:5279.1/55

All: 6.299 $\pm$ 0.058 χ^2 /NDF: 9465.6/105

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -58.558 ± 0.410 χ^2/NDF : 1248.6/26

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -66.129 ± 0.371 χ^2/NDF : 2890.0/30

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

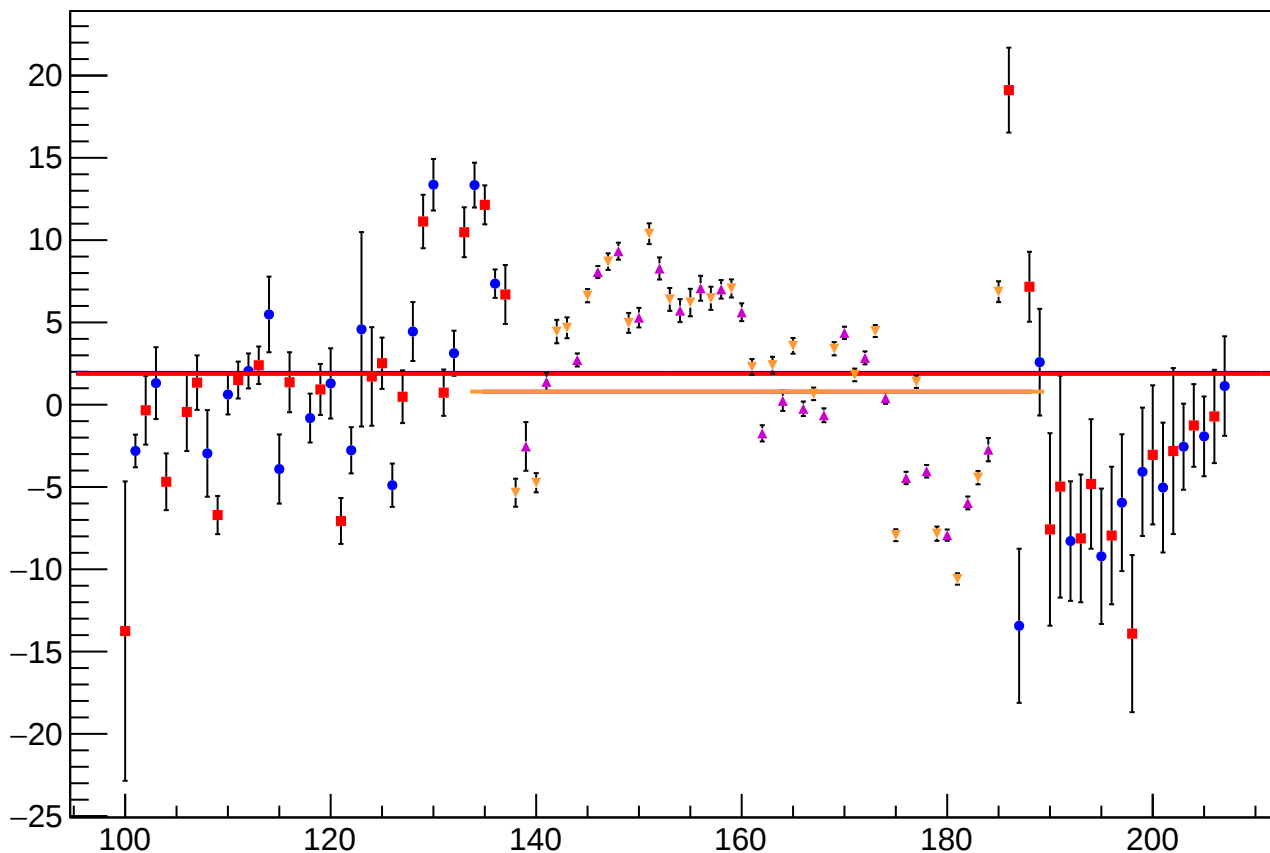
Right: -62.723 ± 0.275 χ^2/NDF : 4326.0/57

In: -46.074 ± 0.104 χ^2/NDF : 17838.0/49

Out: -47.510 ± 0.102 χ^2/NDF : 22976.2/55

All: -46.803 ± 0.073 χ^2/NDF : 40911.4/105

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.932 ± 0.330 χ^2/NDF : 285.7/26

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.873 ± 0.334 χ^2/NDF : 349.7/30

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

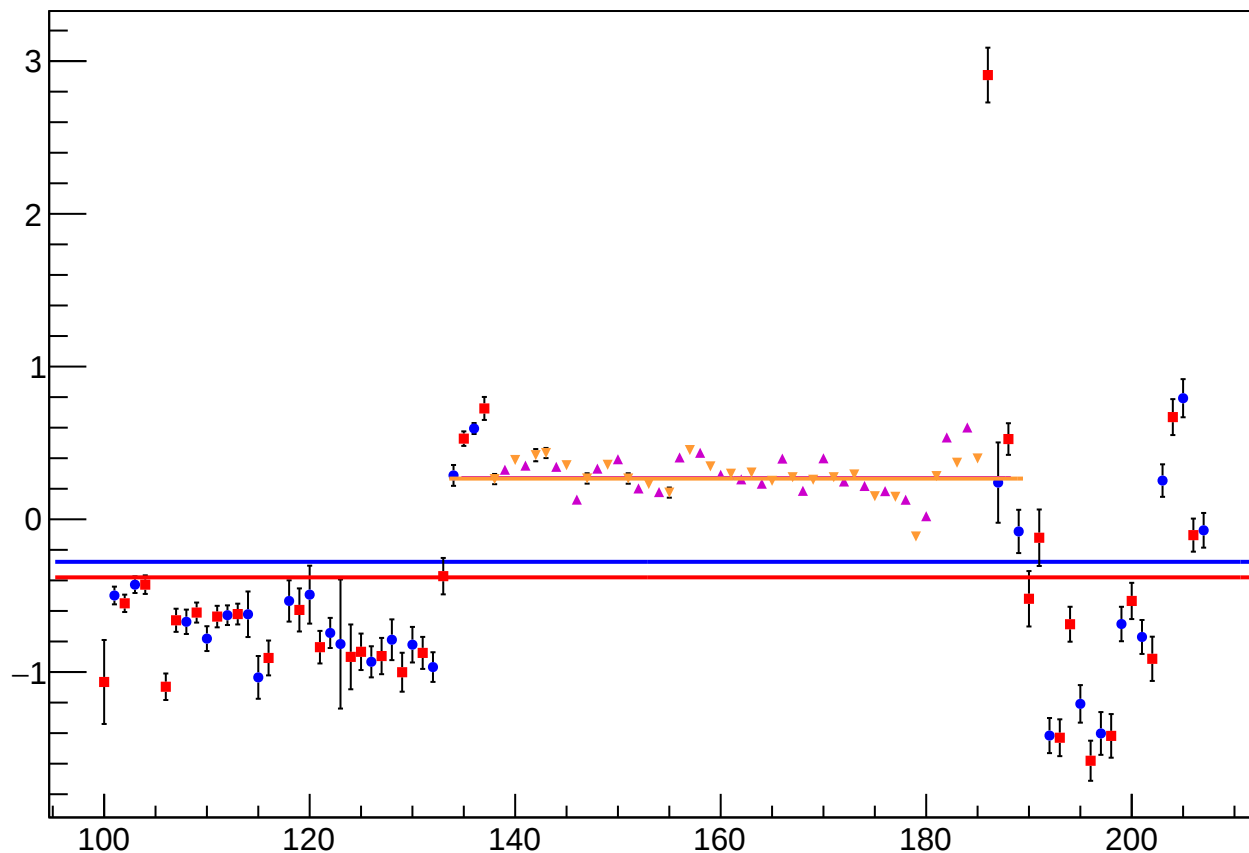
Right: 1.903 ± 0.235 χ^2/NDF : 635.4/57

In: 0.882 ± 0.093 χ^2/NDF : 2989.1/49

Out: 0.879 ± 0.092 χ^2/NDF : 4119.2/55

All: 0.880 ± 0.065 χ^2/NDF : 7108.3/105

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.278 ± 0.017 χ^2/NDF : 1322.9/26

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.380 ± 0.017 χ^2/NDF : 1581.0/30

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

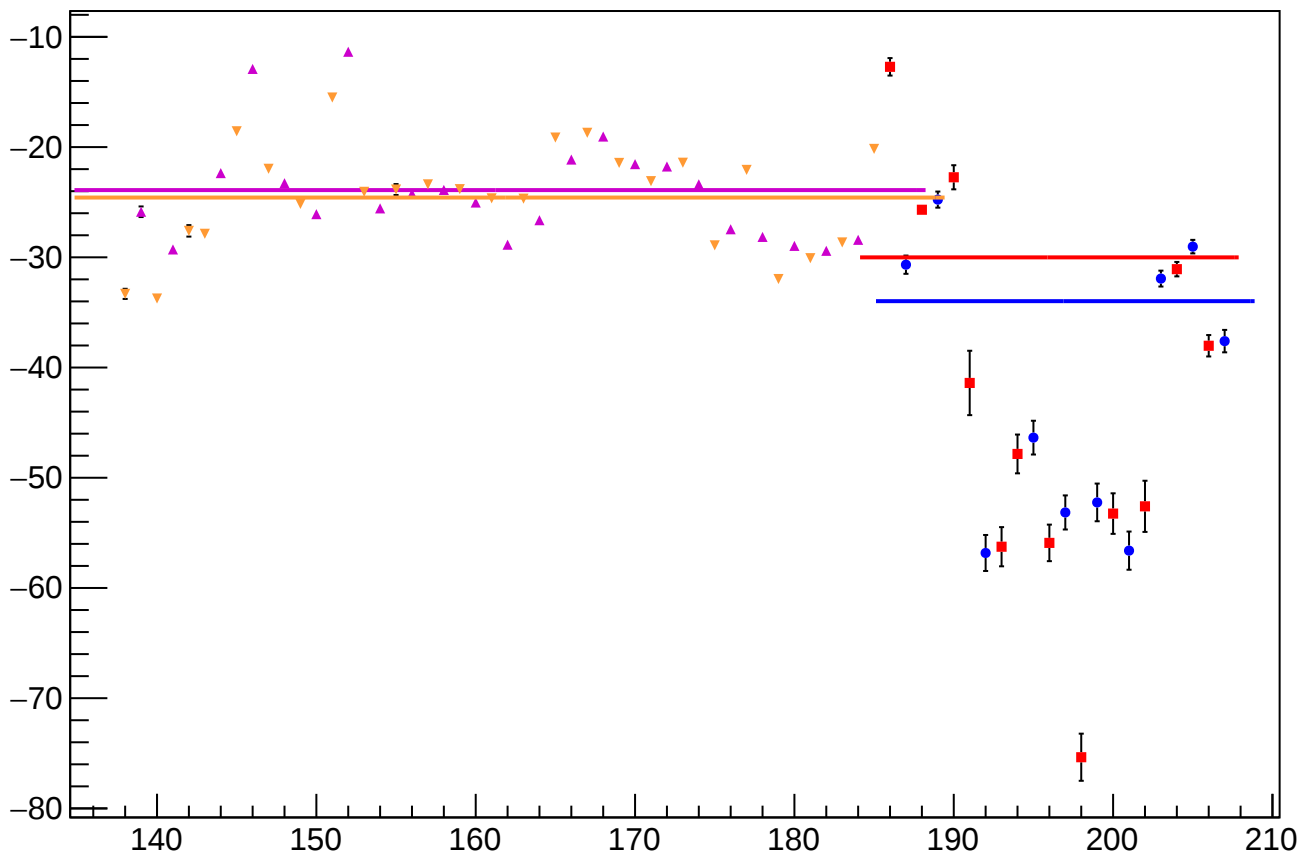
Right: -0.330 ± 0.012 χ^2/NDF : 2921.8/57

In: 0.236 ± 0.004 χ^2/NDF : 3263.1/49

Out: 0.226 ± 0.004 χ^2/NDF : 3646.0/55

All: 0.231 ± 0.003 χ^2/NDF : 6911.5/105

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.978 ± 0.305 $\chi^2/\text{NDF}: 960.3/9$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -30.005 ± 0.277 $\chi^2/\text{NDF}: 1974.5/11$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

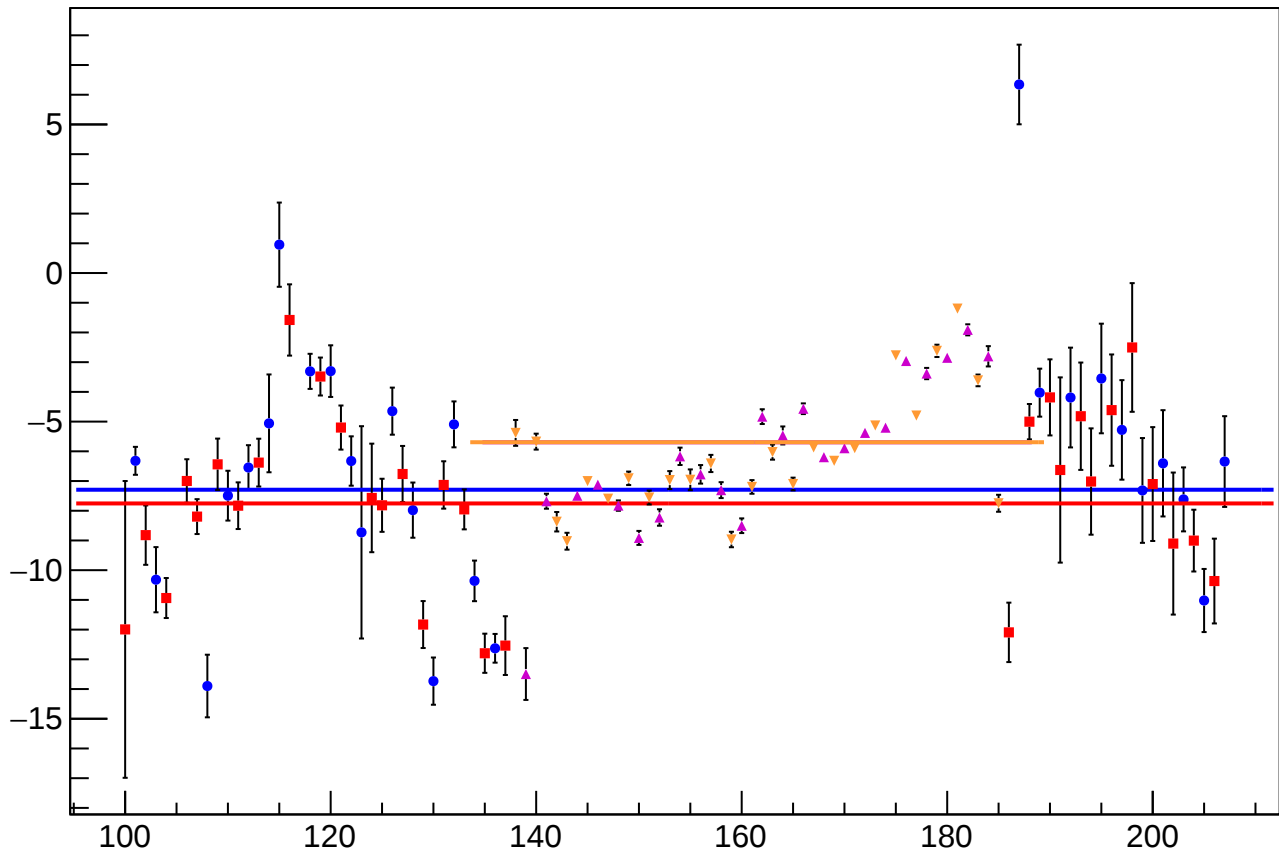
Right: -31.803 ± 0.205 $\chi^2/\text{NDF}: 3027.8/21$

In: -24.177 ± 0.050 $\chi^2/\text{NDF}: 11178.7/32$

Out: -24.755 ± 0.050 $\chi^2/\text{NDF}: 10936.2/36$

All: -24.467 ± 0.036 $\chi^2/\text{NDF}: 22181.1/69$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.293 ± 0.171 χ^2/NDF : 525.6/26

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.754 ± 0.166 χ^2/NDF : 289.4/30

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

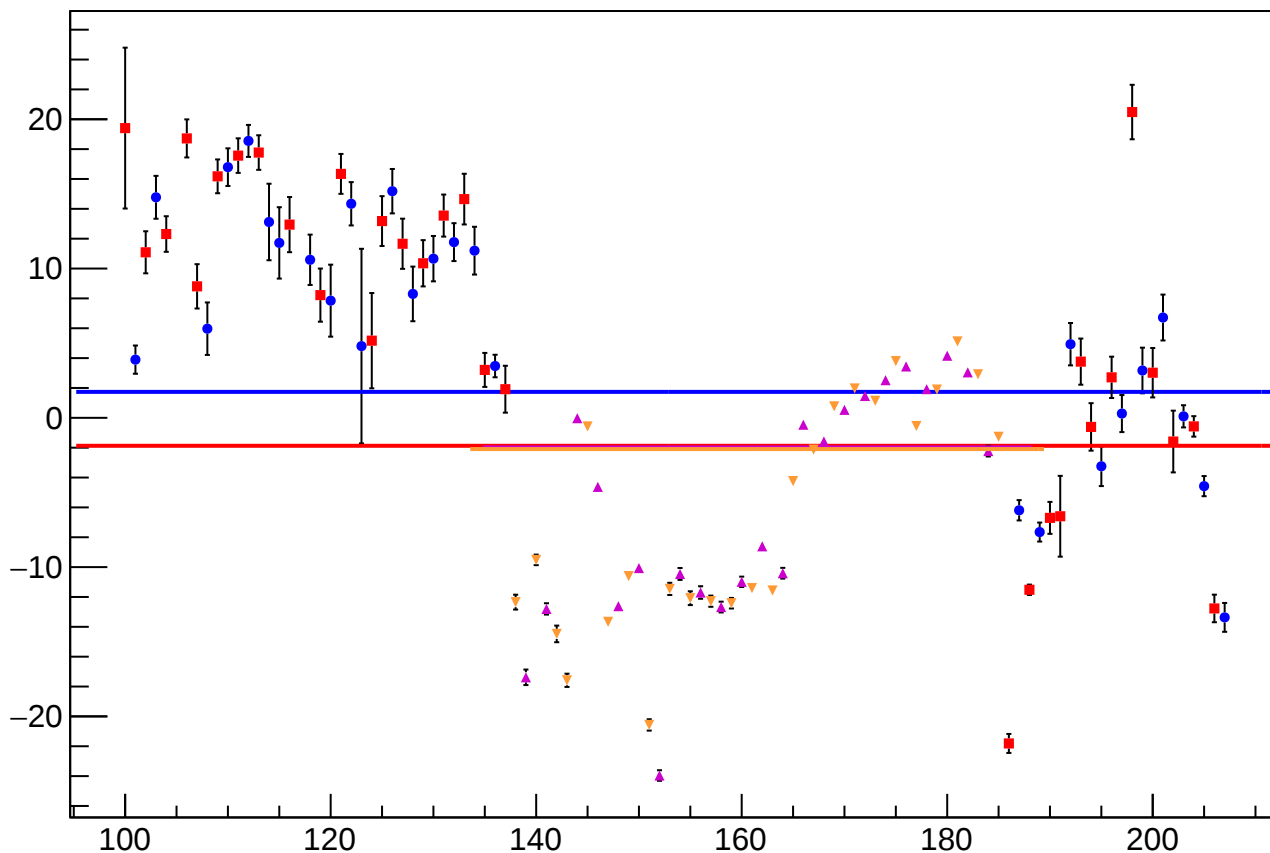
Right: -7.530 ± 0.119 χ^2/NDF : 818.8/57

In: -5.783 ± 0.040 χ^2/NDF : 2918.3/49

Out: -5.813 ± 0.040 χ^2/NDF : 2693.2/55

All: -5.798 ± 0.028 χ^2/NDF : 5611.8/105

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

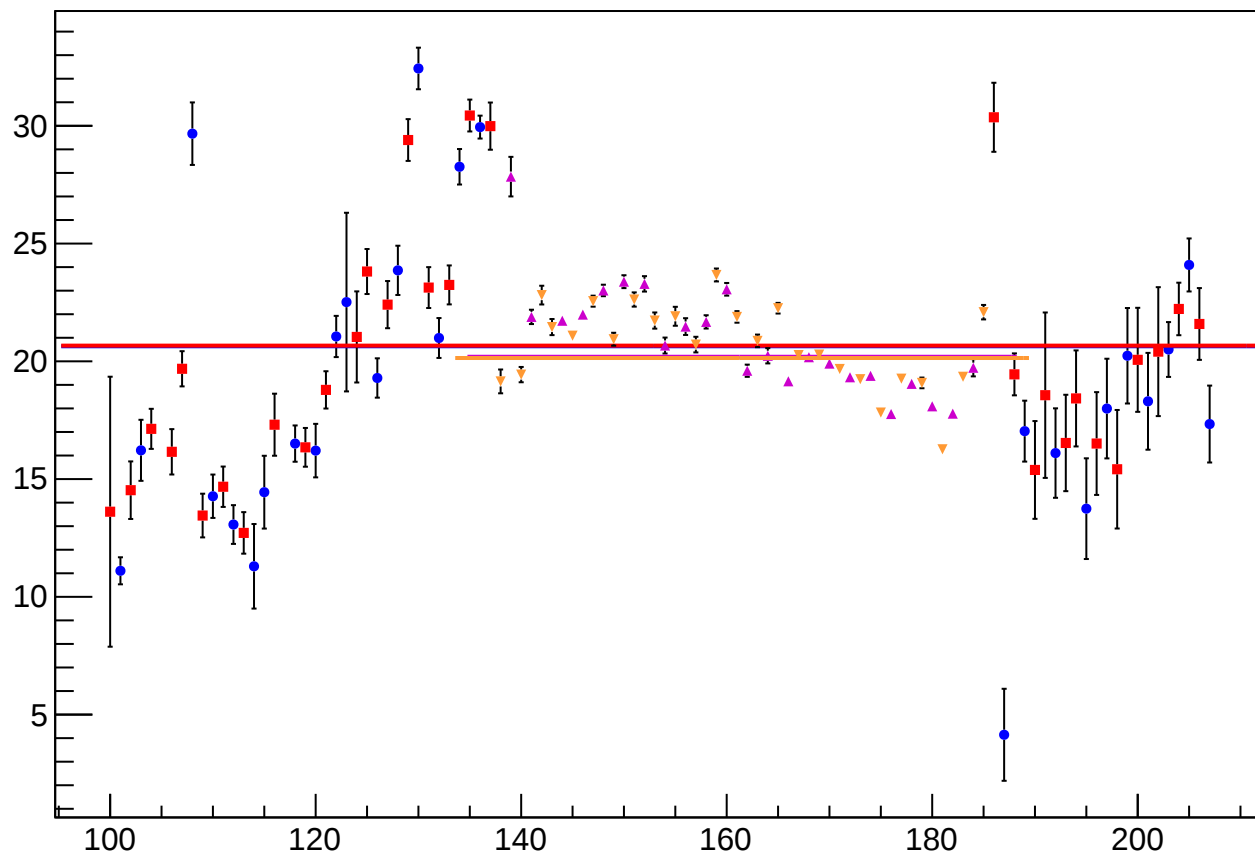


Right In: 1.738 ± 0.218 $\chi^2/\text{NDF}: 1582.3/26$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.873 ± 0.195 $\chi^2/\text{NDF}: 4220.1/30$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: -0.272 ± 0.145 $\chi^2/\text{NDF}: 5954.8/57$
 In: -1.786 ± 0.050 $\chi^2/\text{NDF}: 17239.8/49$
 Out: -2.078 ± 0.050 $\chi^2/\text{NDF}: 20526.6/55$

All: -1.932 ± 0.035 $\chi^2/\text{NDF}: 37783.5/105$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.639 $\pm$ 0.195 χ^2 /NDF: 1324.6/26

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.666 $\pm$ 0.194 χ^2 /NDF: 789.8/30

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF: 1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

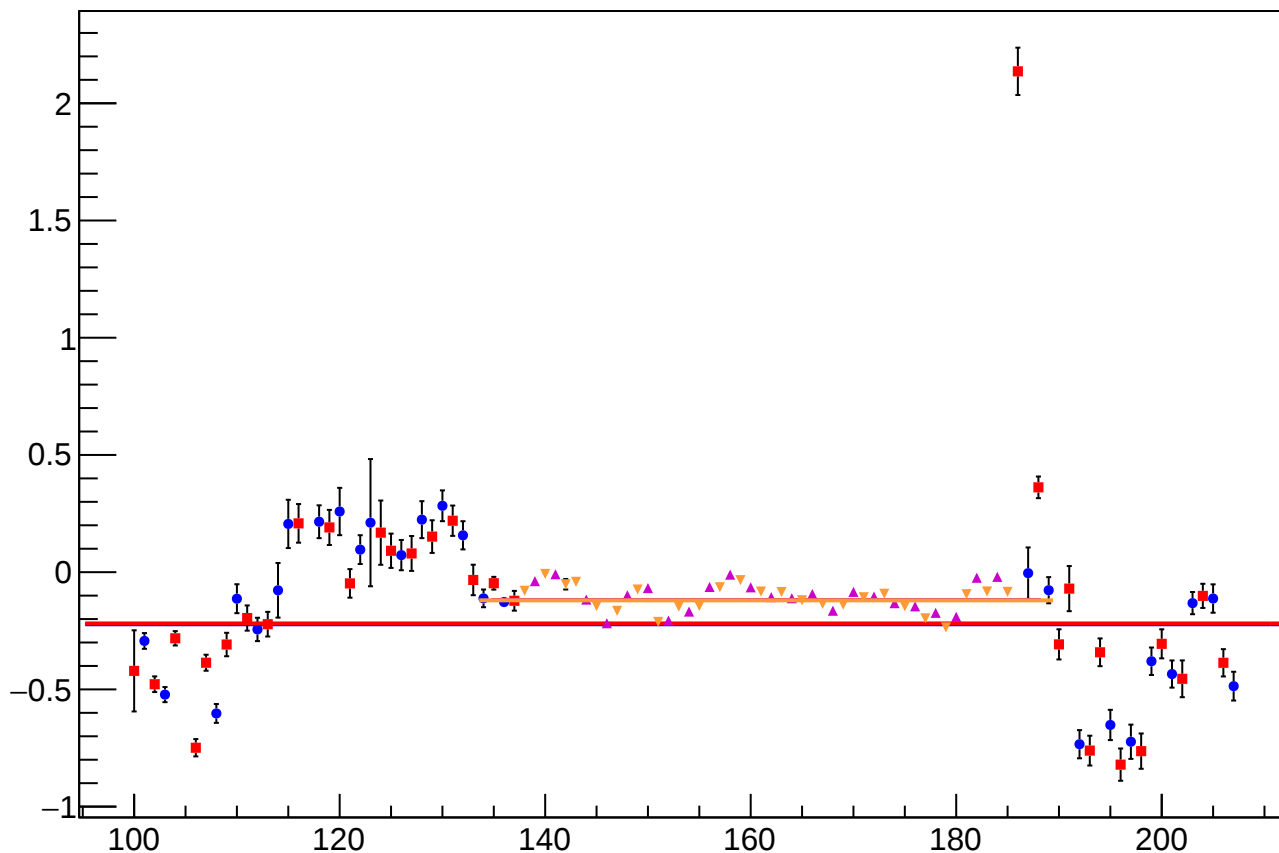
Right: 20.653 $\pm$ 0.138 χ^2 /NDF: 2114.4/57

In: 20.217 $\pm$ 0.045 χ^2 /NDF: 2777.0/49

Out: 20.169 $\pm$ 0.045 χ^2 /NDF: 2215.8/55

All: 20.193 $\pm$ 0.032 χ^2 /NDF: 4993.4/105

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.222 ± 0.010 χ^2/NDF : 697.4/26

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.219 ± 0.009 χ^2/NDF : 1470.2/30

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

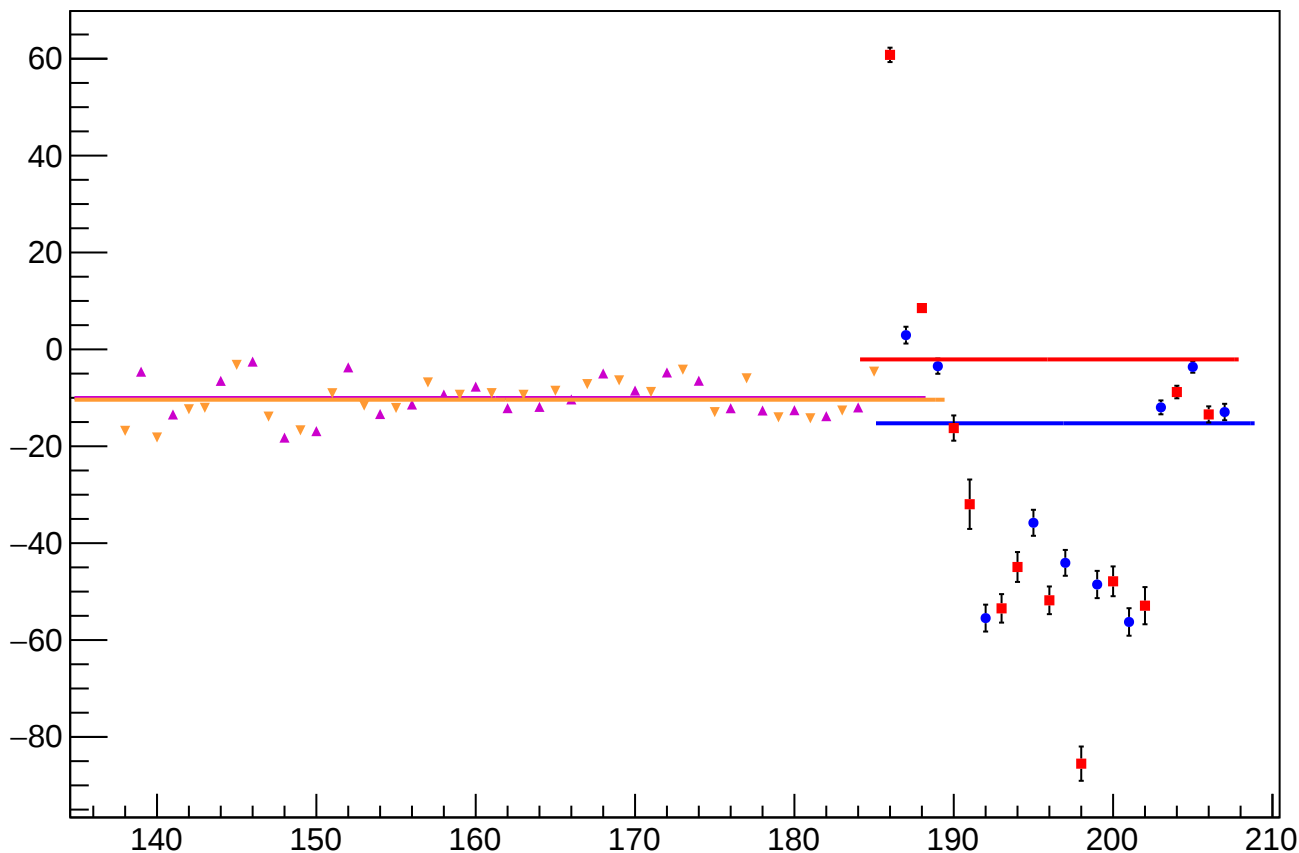
Right: -0.220 ± 0.007 χ^2/NDF : 2167.7/57

In: -0.123 ± 0.002 χ^2/NDF : 1527.9/49

Out: -0.125 ± 0.002 χ^2/NDF : 2104.9/55

All: -0.124 ± 0.001 χ^2/NDF : 3633.0/105

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.258 ± 0.584 $\chi^2/\text{NDF}: 1002.6/9$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: -2.071 ± 0.531 $\chi^2/\text{NDF}: 3832.2/11$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

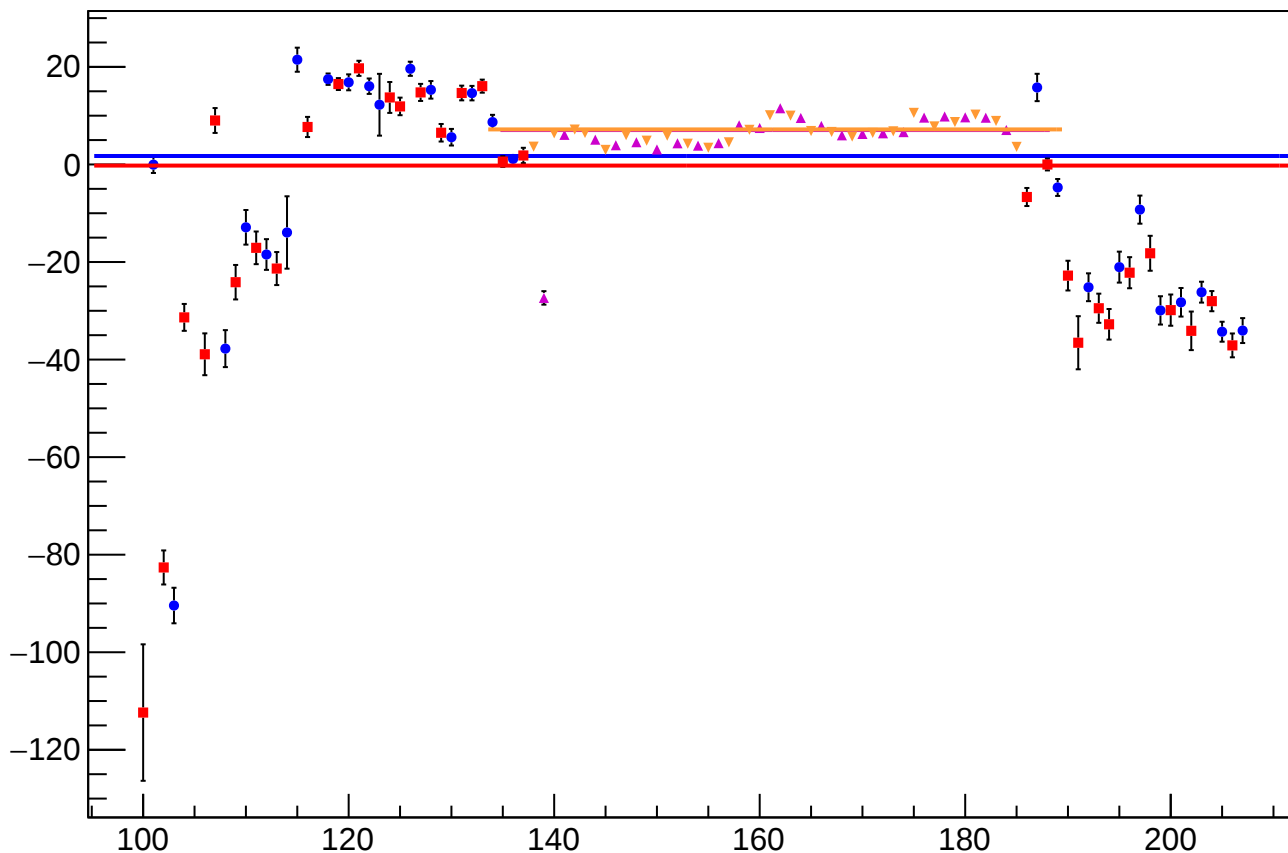
Right: -8.041 ± 0.393 $\chi^2/\text{NDF}: 5113.8/21$

In: -10.156 ± 0.088 $\chi^2/\text{NDF}: 2839.4/32$

Out: -10.169 ± 0.087 $\chi^2/\text{NDF}: 6182.6/36$

All: -10.163 ± 0.062 $\chi^2/\text{NDF}: 9022.0/69$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.735 ± 0.361 χ^2/NDF : 2635.5/26

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -0.232 ± 0.369 χ^2/NDF : 2676.0/30

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

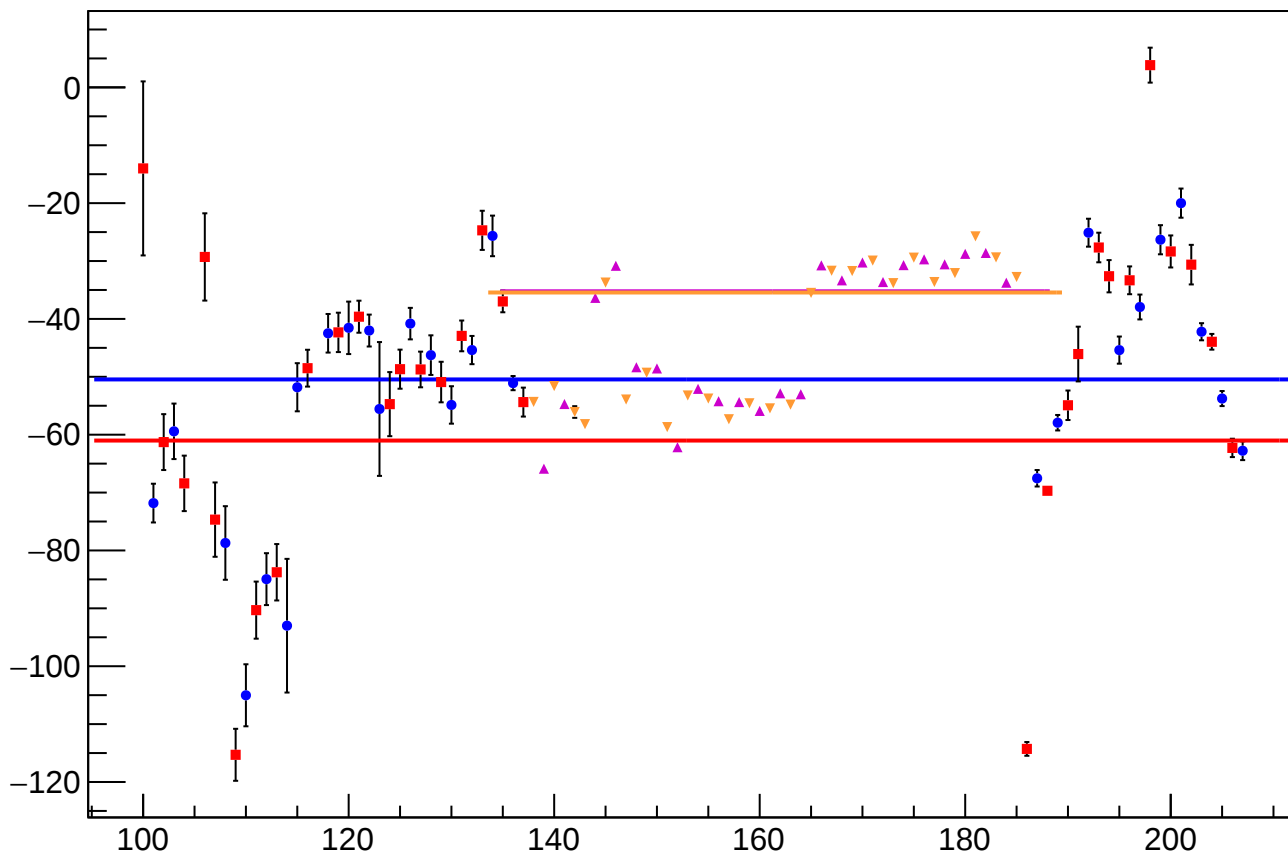
Right: 0.774 ± 0.258 χ^2/NDF : 5326.1/57

In: 6.837 ± 0.073 χ^2/NDF : 4379.7/49

Out: 6.901 ± 0.072 χ^2/NDF : 3982.1/55

All: 6.869 ± 0.051 χ^2/NDF : 8362.2/105

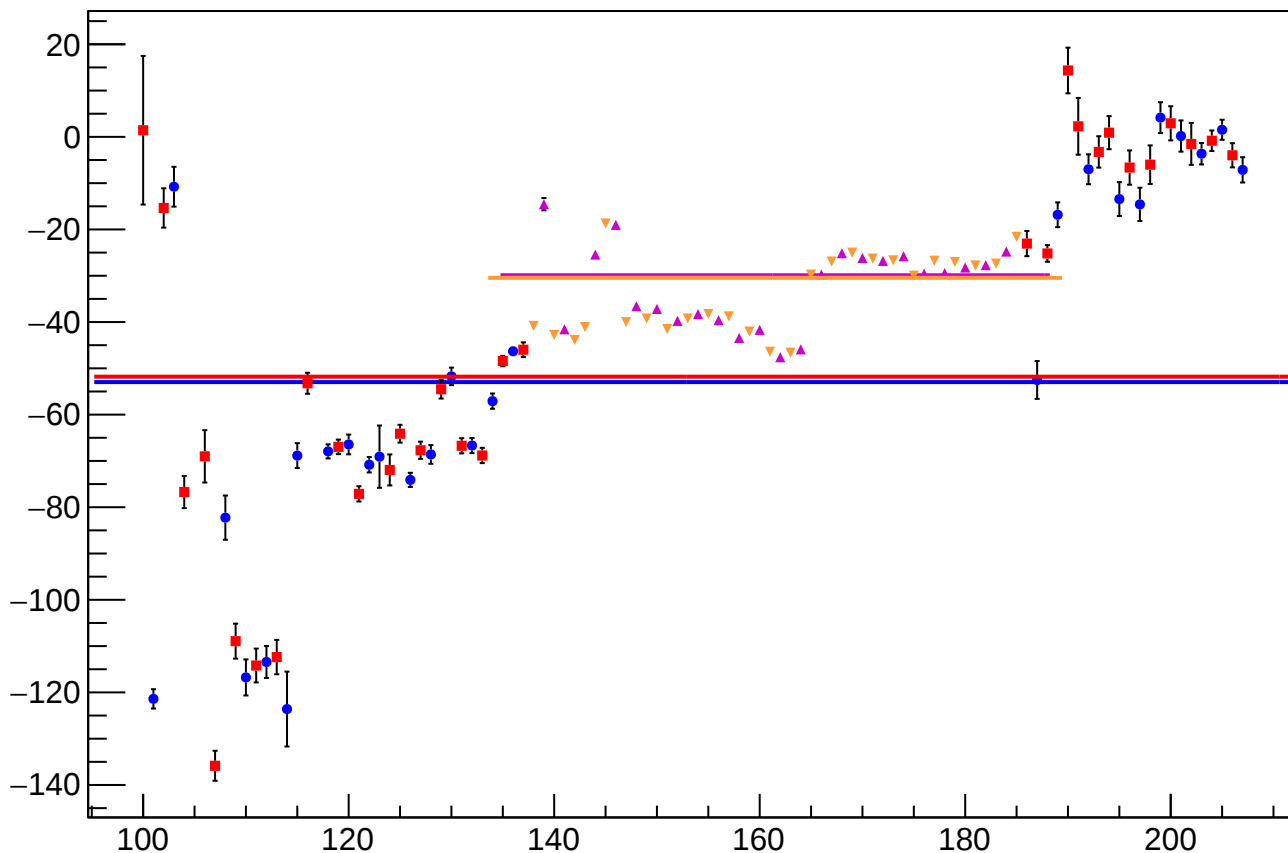
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.455 ± 0.439 $\chi^2/\text{NDF}: 988.1/26$
 Left Out: -35.434 ± 0.089 $\chi^2/\text{NDF}: 12782.8/24$
 Right Out: -61.013 ± 0.399 $\chi^2/\text{NDF}: 4143.5/30$
 Left In: -35.229 ± 0.090 $\chi^2/\text{NDF}: 11602.9/22$

Left: -35.333 ± 0.063 $\chi^2/\text{NDF}: 24388.3/47$
 Right: -56.235 ± 0.295 $\chi^2/\text{NDF}: 5448.2/57$
 In: -35.844 ± 0.088 $\chi^2/\text{NDF}: 13745.0/49$
 Out: -36.646 ± 0.087 $\chi^2/\text{NDF}: 20838.1/55$
 All: -36.251 ± 0.062 $\chi^2/\text{NDF}: 34625.0/105$

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -52.972 ± 0.404 χ^2/NDF : 5082.1/26

Left Out: -30.448 ± 0.082 χ^2/NDF : 8167.7/24

Right Out: -51.797 ± 0.424 χ^2/NDF : 4785.1/30

Left In: -29.892 ± 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 ± 0.058 χ^2/NDF : 15305.7/47

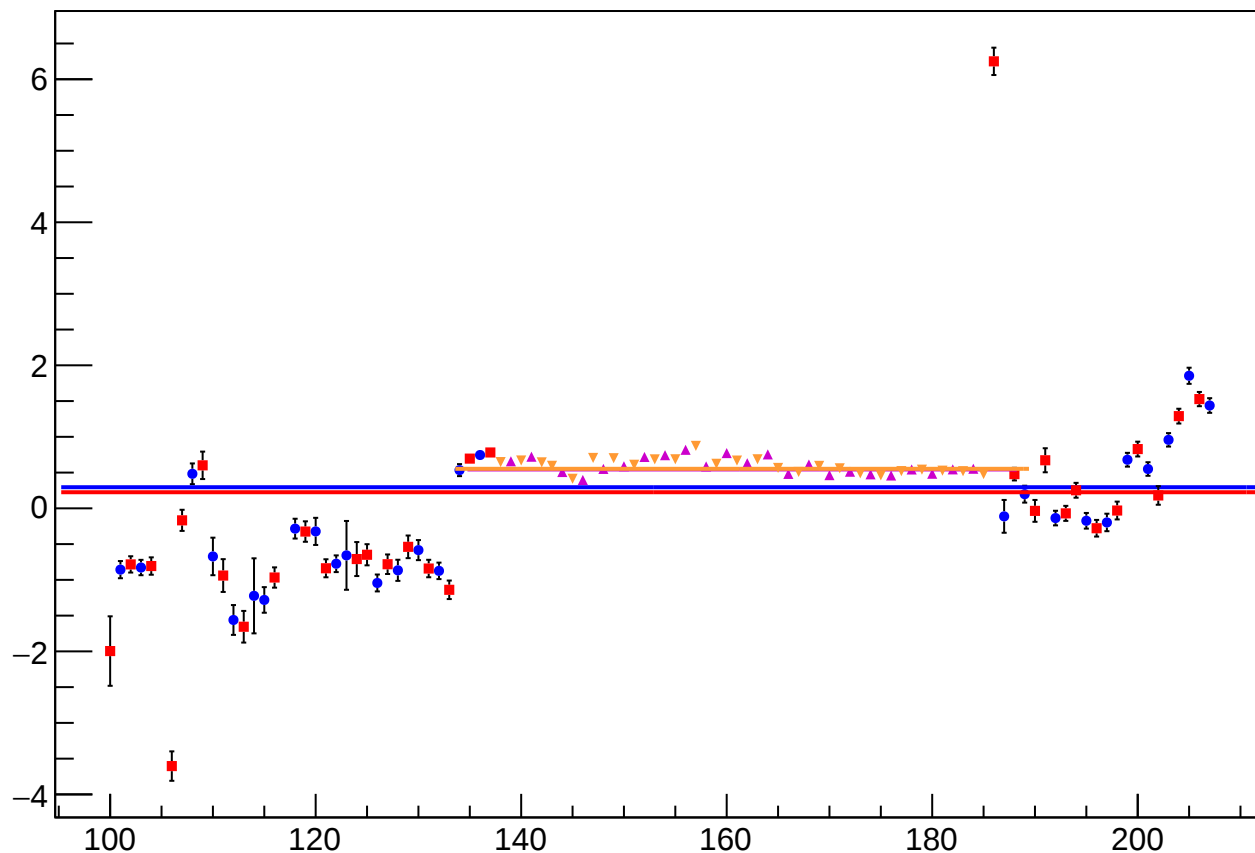
Right: -52.413 ± 0.293 χ^2/NDF : 9871.3/57

In: -30.816 ± 0.081 χ^2/NDF : 15323.7/49

Out: -31.208 ± 0.080 χ^2/NDF : 15393.0/55

All: -31.014 ± 0.057 χ^2/NDF : 30728.5/105

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.295 $\pm$ 0.020 χ^2 /NDF: 1466.3/26

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.225 $\pm$ 0.021 χ^2 /NDF: 2629.2/30

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

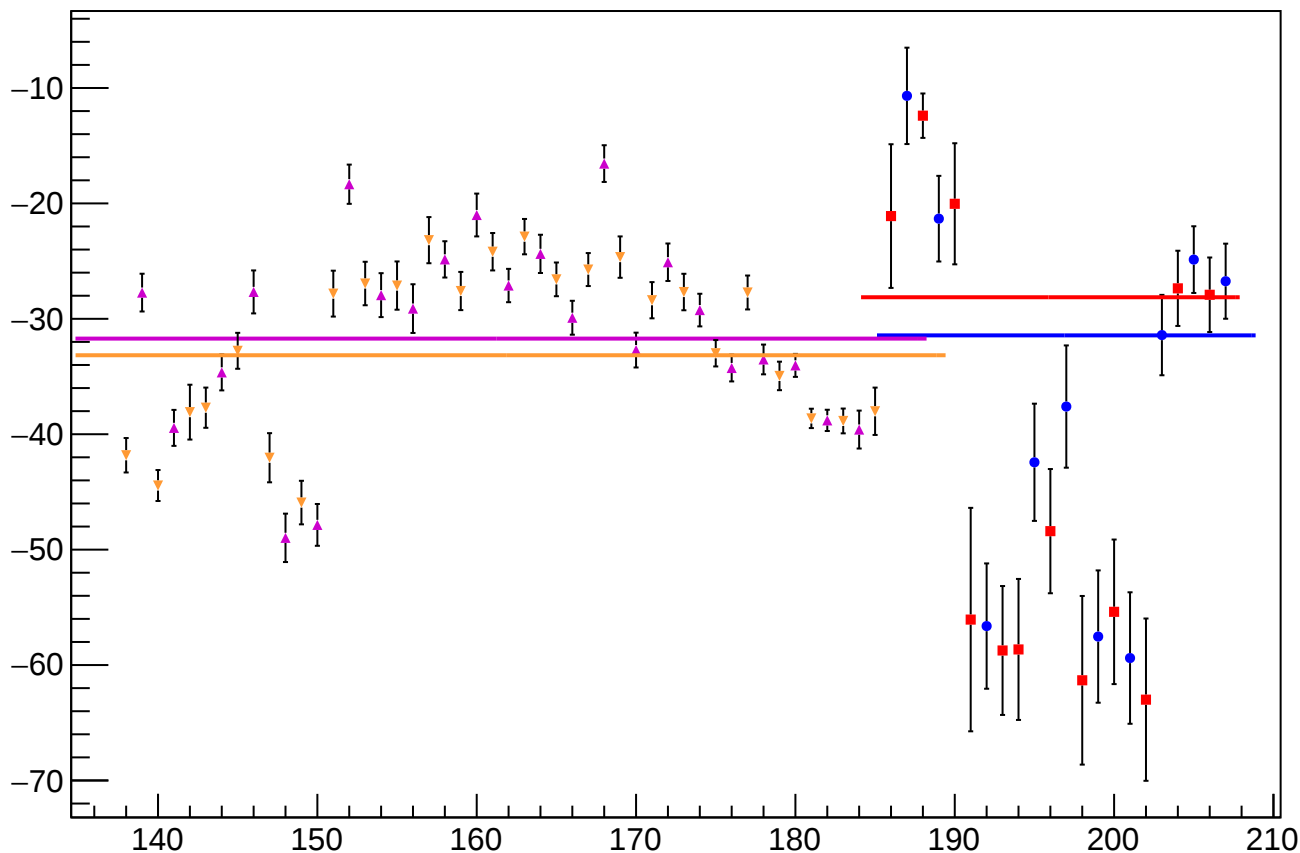
Right: 0.262 $\pm$ 0.014 χ^2 /NDF: 4101.5/57

In: 0.535 $\pm$ 0.004 χ^2 /NDF:2275.1/49

Out: 0.543 $\pm$ 0.004 χ^2 /NDF:3415.1/55

All: 0.539 $\pm$ 0.003 χ^2 /NDF: 5692.4/105

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



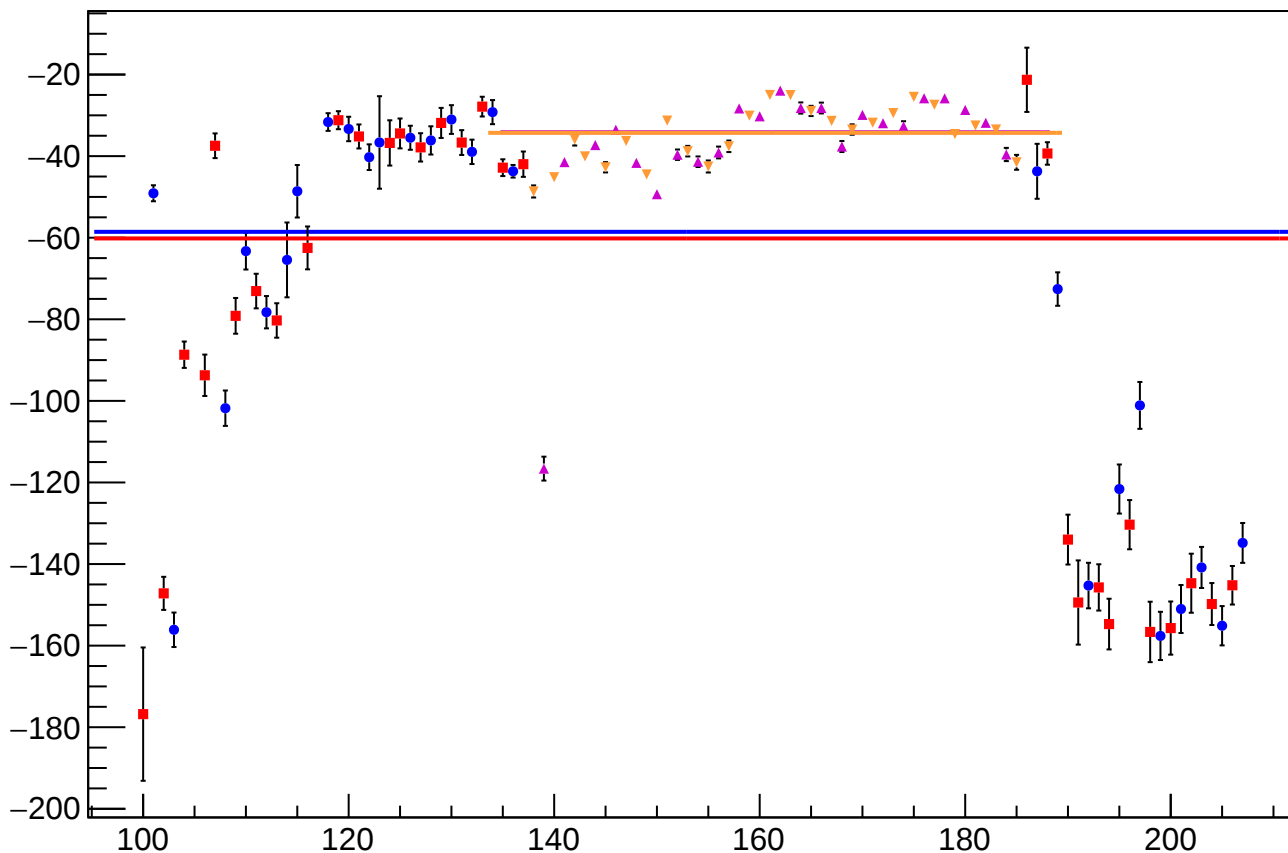
Right In: -31.435 ± 1.295 $\chi^2/\text{NDF}: 111.8/9$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -28.131 ± 1.203 $\chi^2/\text{NDF}: 212.2/11$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -29.662 ± 0.881 $\chi^2/\text{NDF}: 327.5/21$

In: -31.699 ± 0.301 $\chi^2/\text{NDF}: 654.1/32$
 Out: -32.862 ± 0.291 $\chi^2/\text{NDF}: 728.8/36$

All: -32.299 ± 0.209 $\chi^2/\text{NDF}: 1390.5/69$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.557 ± 0.670 χ^2/NDF : 3207.6/26

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -60.178 ± 0.686 χ^2/NDF : 3539.5/30

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

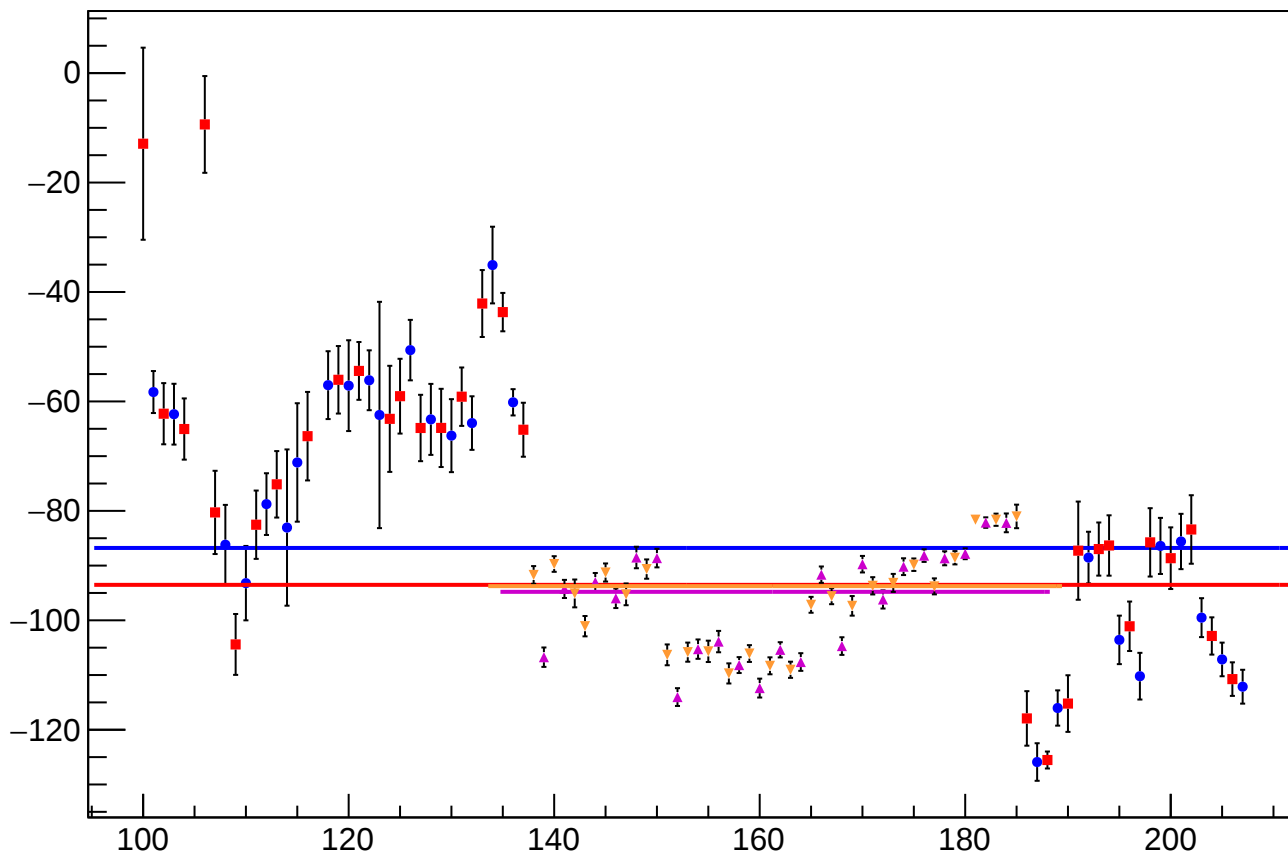
Right: -59.348 ± 0.479 χ^2/NDF : 6750.0/57

In: -37.145 ± 0.235 χ^2/NDF : 5824.5/49

Out: -37.139 ± 0.228 χ^2/NDF : 5501.3/55

All: -37.142 ± 0.164 χ^2/NDF : 11325.8/105

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -86.775 $\pm$ 0.886 χ^2/NDF : 793.5/26

Left Out: -93.754 $\pm$ 0.302 χ^2/NDF : 883.1/24

Right Out: -93.519 $\pm$ 0.837 χ^2/NDF : 1230.1/30

Left In: -94.796 $\pm$ 0.308 χ^2/NDF : 974.7/22

Left: -94.264 $\pm$ 0.216 χ^2/NDF : 1863.6/47

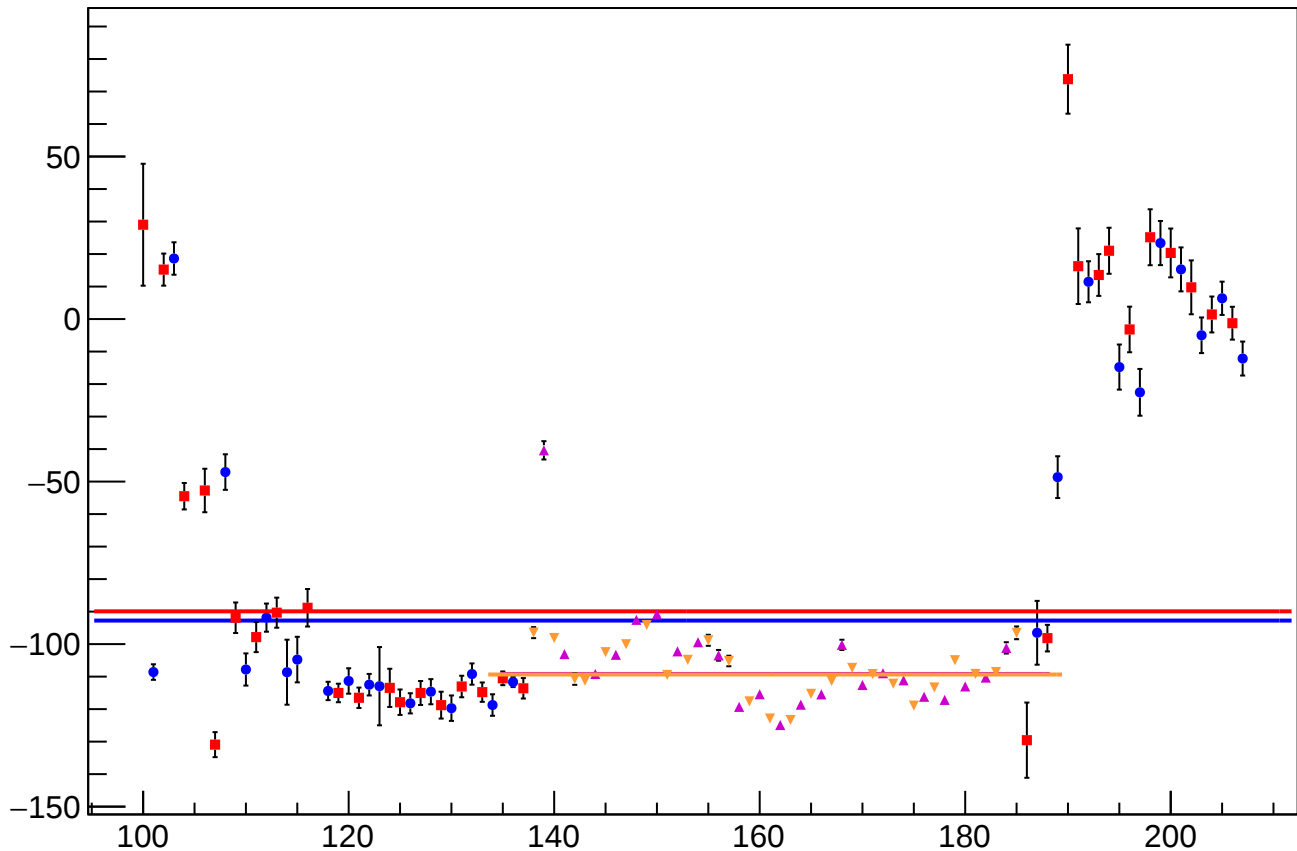
Right: -90.338 $\pm$ 0.608 χ^2/NDF : 2054.2/57

In: -93.928 $\pm$ 0.291 χ^2/NDF : 1841.3/49

Out: -93.727 $\pm$ 0.284 χ^2/NDF : 2113.2/55

All: -93.825 $\pm$ 0.203 χ^2/NDF : 3954.8/105

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -92.758 ± 0.757 $\chi^2/\text{NDF}: 3085.5/26$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -89.921 ± 0.788 $\chi^2/\text{NDF}: 3414.0/30$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

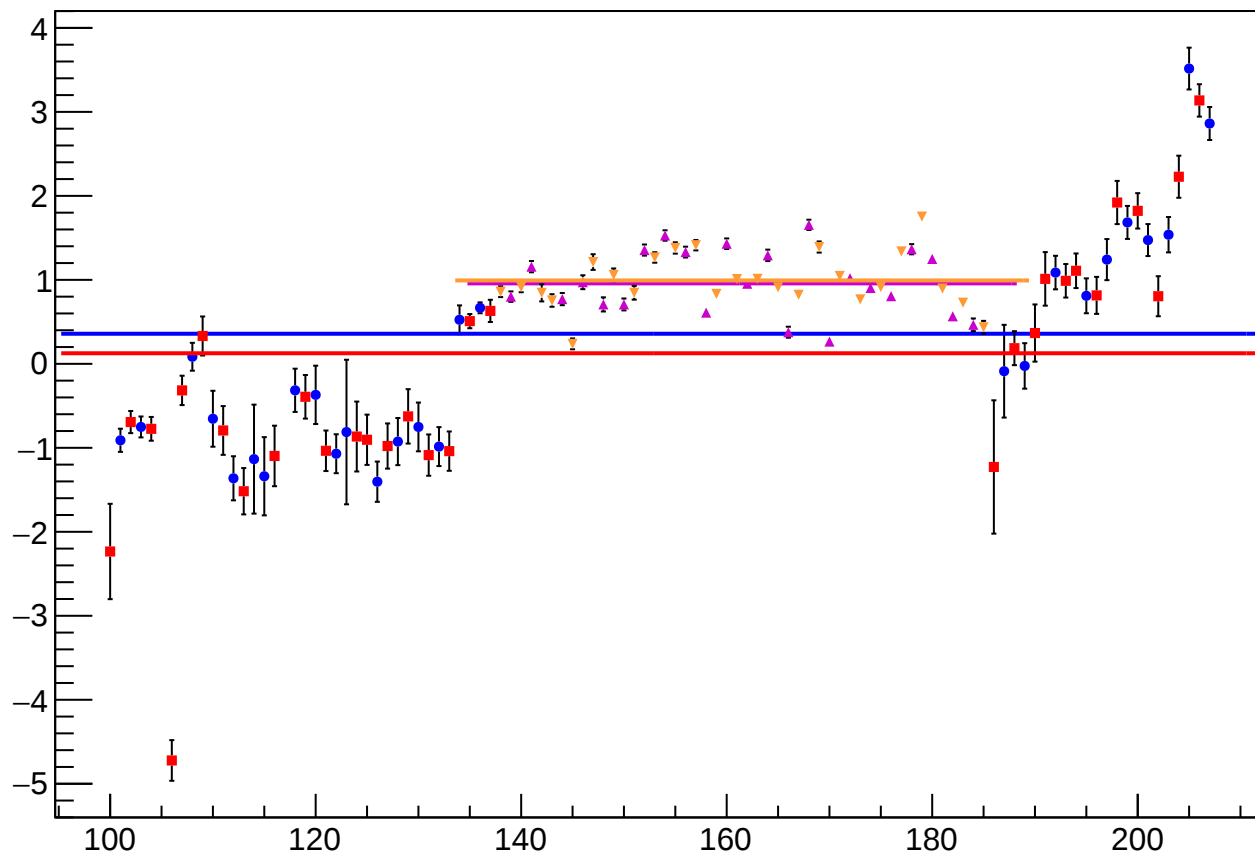
Right: -91.397 ± 0.546 $\chi^2/\text{NDF}: 6506.2/57$

In: -107.209 ± 0.263 $\chi^2/\text{NDF}: 5000.8/49$

Out: -107.294 ± 0.256 $\chi^2/\text{NDF}: 4784.2/55$

All: -107.252 ± 0.183 $\chi^2/\text{NDF}: 9785.0/105$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.358 ± 0.036 $\chi^2/\text{NDF}: 904.0/26$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.126 ± 0.037 $\chi^2/\text{NDF}: 1210.5/30$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

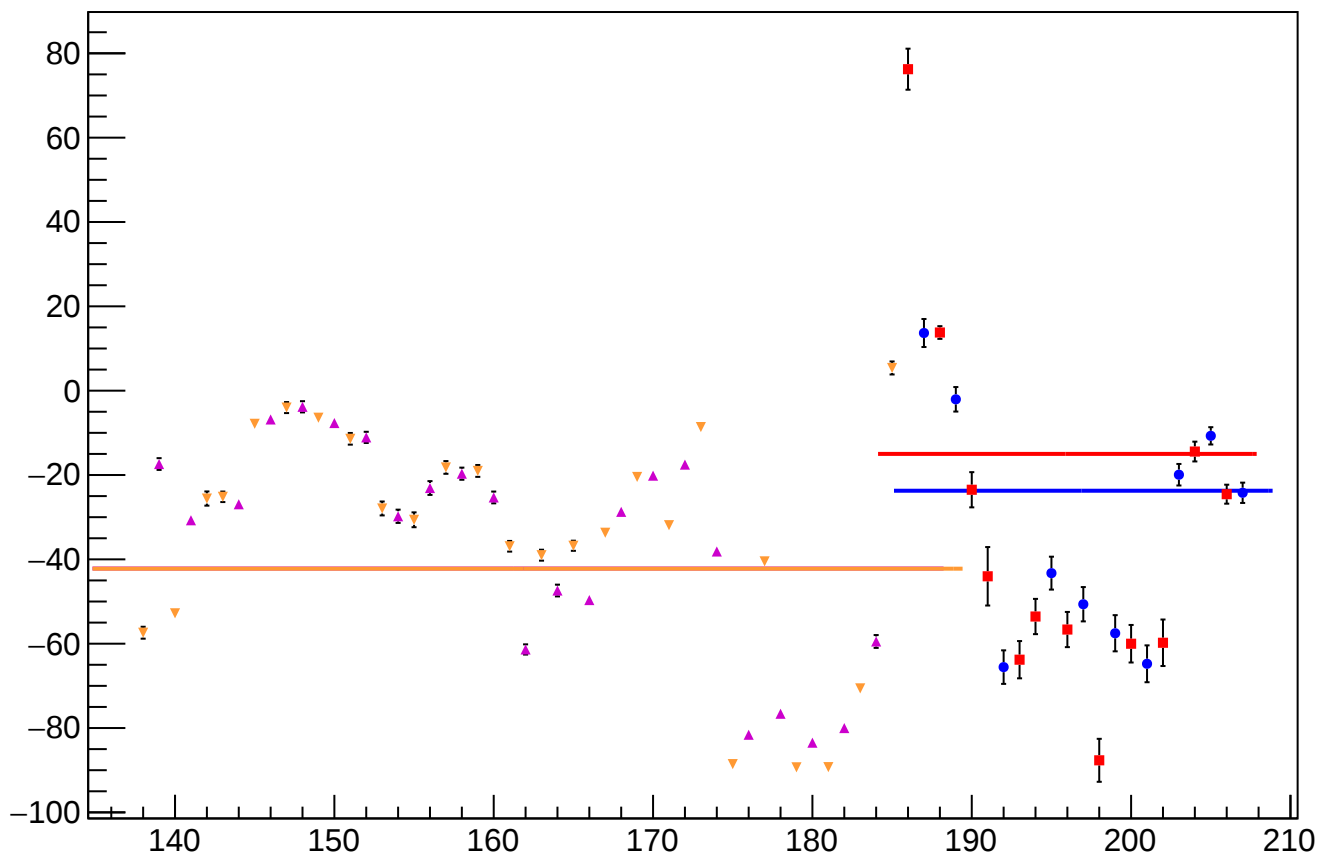
Right: 0.245 ± 0.026 $\chi^2/\text{NDF}: 2134.5/57$

In: 0.893 ± 0.012 $\chi^2/\text{NDF}: 2041.7/49$

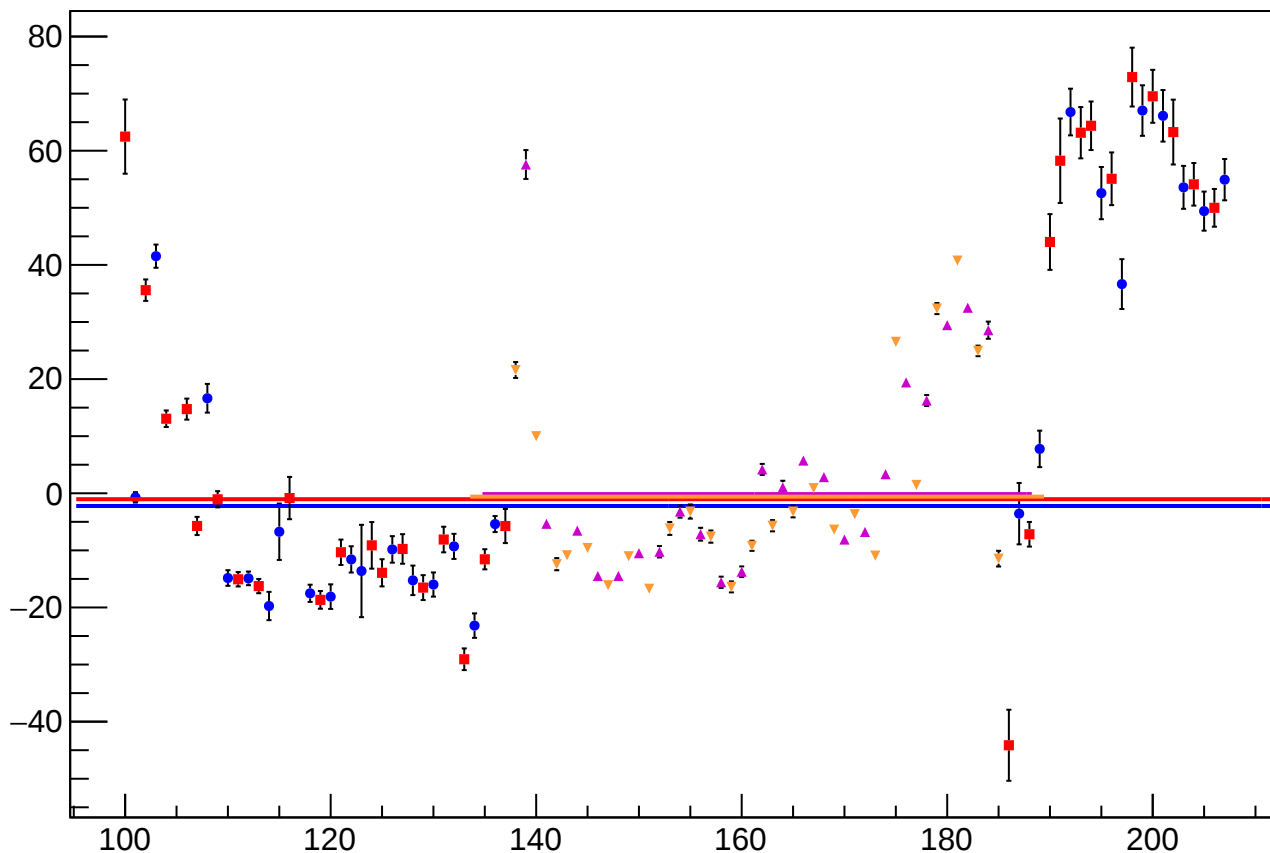
Out: 0.906 ± 0.012 $\chi^2/\text{NDF}: 2340.8/55$

All: 0.899 ± 0.008 $\chi^2/\text{NDF}: 4383.1/105$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.225 ± 0.408 χ^2/NDF : 2825.3/26

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: -1.037 ± 0.403 χ^2/NDF : 3246.7/30

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

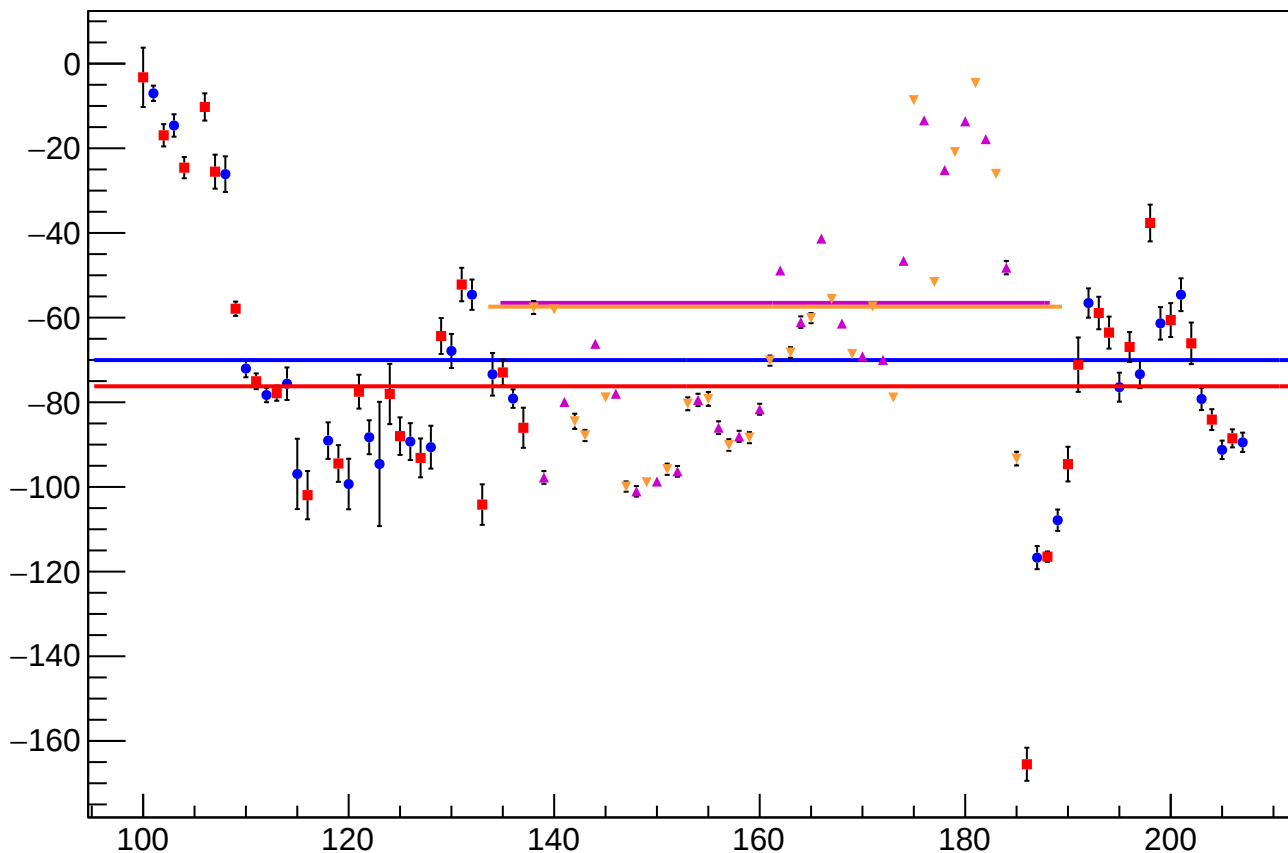
Right: -1.624 ± 0.287 χ^2/NDF : 6076.3/57

In: -0.479 ± 0.164 χ^2/NDF : 9709.7/49

Out: -0.660 ± 0.160 χ^2/NDF : 11998.6/55

All: -0.572 ± 0.115 χ^2/NDF : 21708.9/105

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.035 ± 0.575 $\chi^2/\text{NDF}: 2663.2/26$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$

Right Out: -76.222 ± 0.527 $\chi^2/\text{NDF}: 3696.9/30$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$

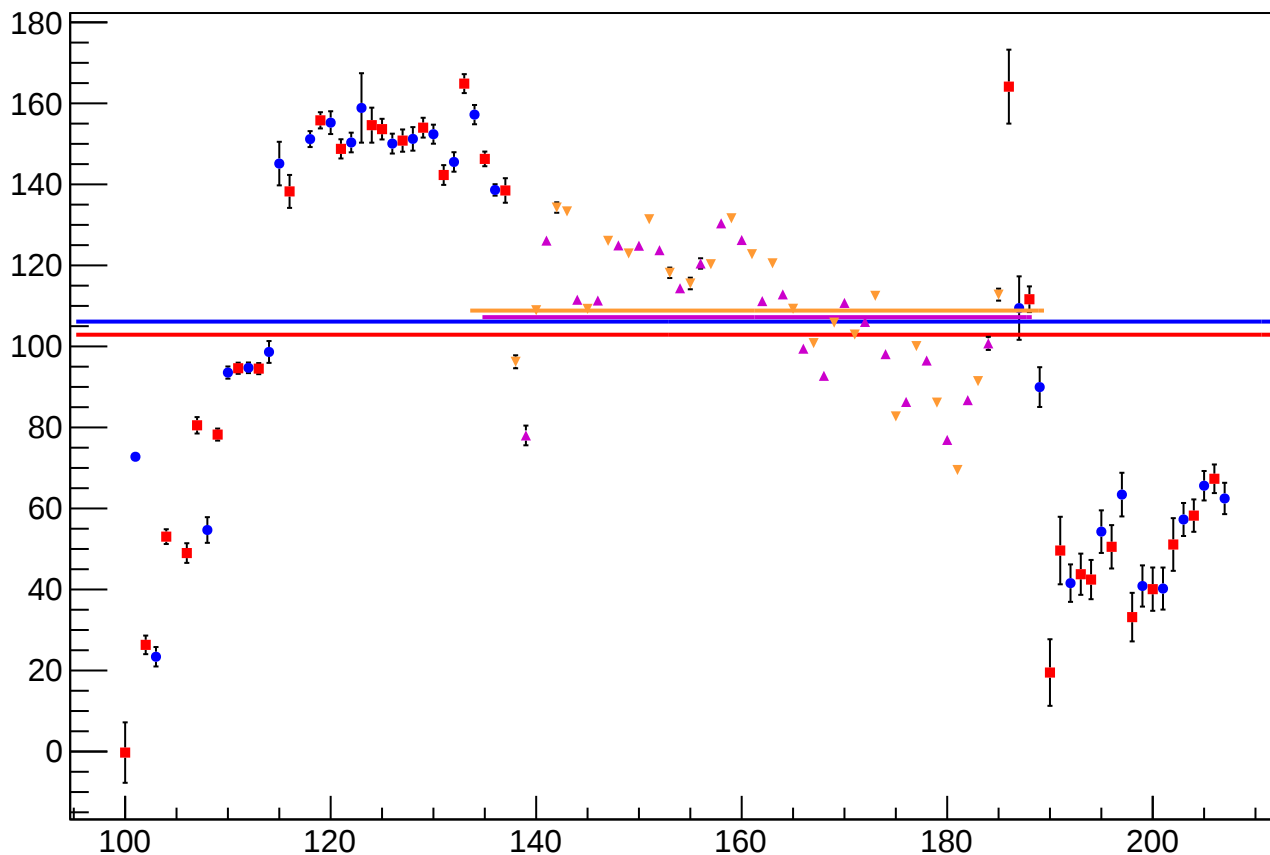
Right: -73.395 ± 0.389 $\chi^2/\text{NDF}: 6423.0/57$

In: -58.342 ± 0.211 $\chi^2/\text{NDF}: 19493.7/49$

Out: -60.270 ± 0.206 $\chi^2/\text{NDF}: 23379.6/55$

All: -59.332 ± 0.147 $\chi^2/\text{NDF}: 42916.1/105$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 106.129 $\pm$ 0.465 χ^2 /NDF: 7055.4/26

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 102.890 $\pm$ 0.462 χ^2 /NDF: 8266.5/30

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

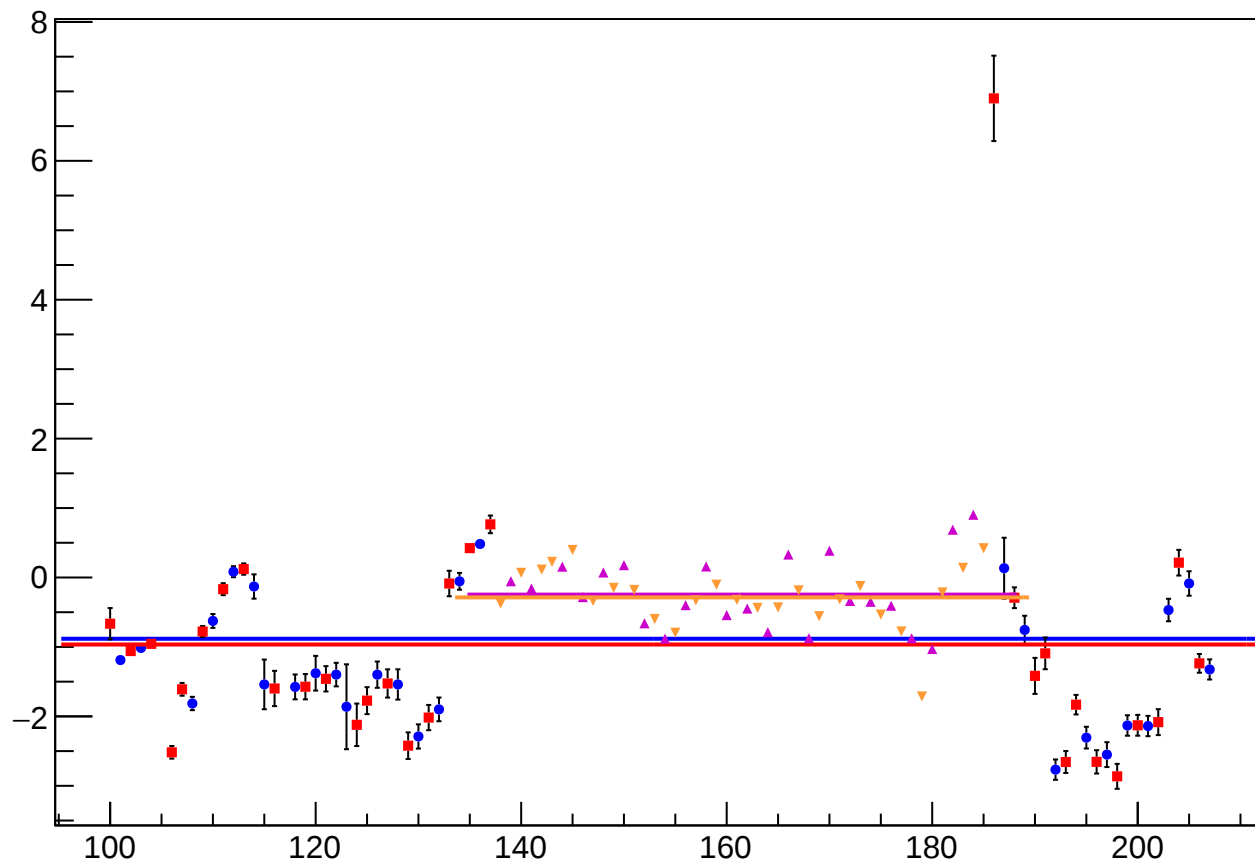
Right: 104.499 $\pm$ 0.328 χ^2 /NDF: 15346.2/57

In: 107.050 $\pm$ 0.186 χ^2 /NDF: 12625.3/49

Out: 107.928 $\pm$ 0.181 χ^2 /NDF: 15807.1/55

All: 107.499 $\pm$ 0.130 χ^2 /NDF: 28443.9/105

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.882 ± 0.023 χ^2/NDF : 1566.6/26

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.965 ± 0.022 χ^2/NDF : 2034.0/30

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

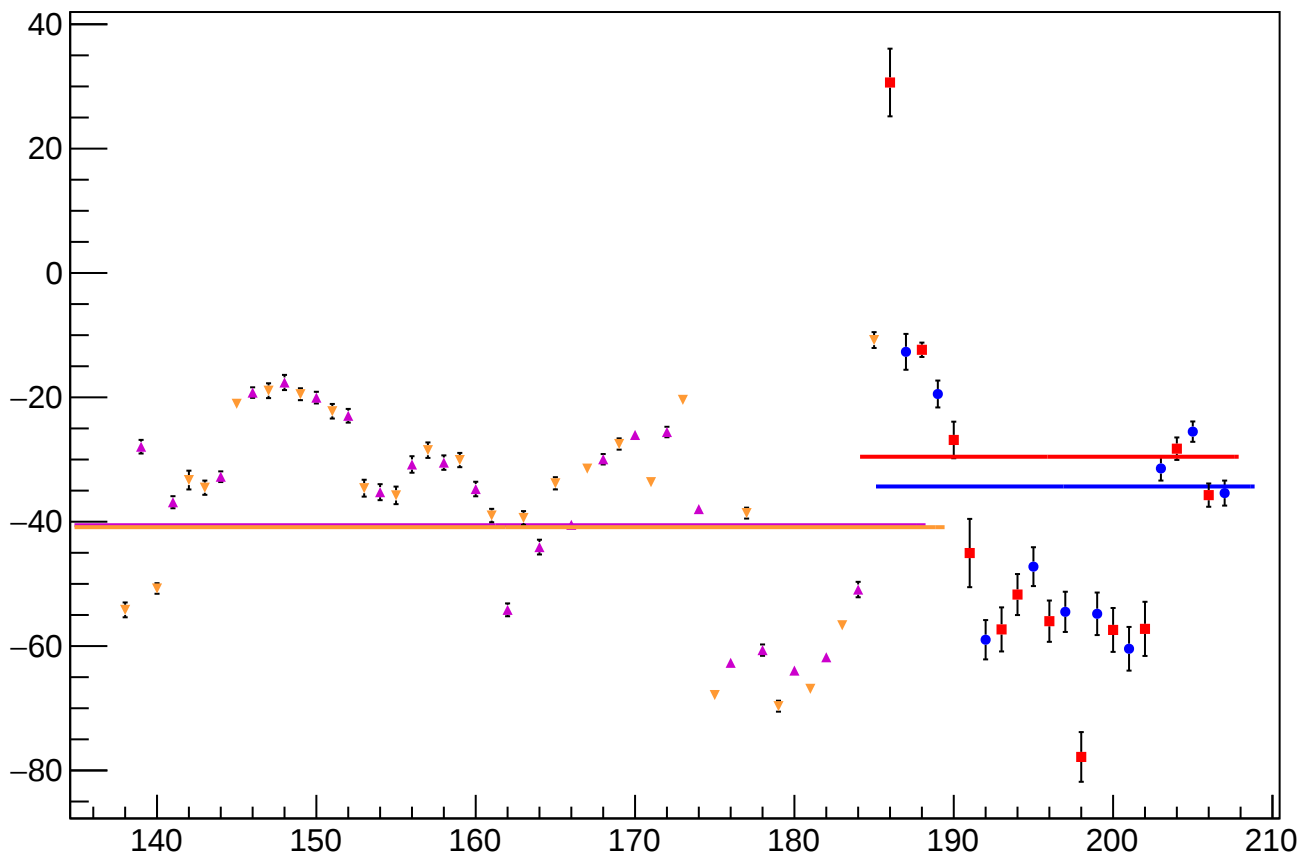
Right: -0.926 ± 0.016 χ^2/NDF : 3607.3/57

In: -0.334 ± 0.009 χ^2/NDF : 5006.3/49

Out: -0.386 ± 0.008 χ^2/NDF : 4903.0/55

All: -0.361 ± 0.006 χ^2/NDF : 9928.1/105

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.334 ± 0.771 χ^2/NDF : 342.9/9

Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24

Right Out: -29.550 ± 0.710 χ^2/NDF : 782.7/11

Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47

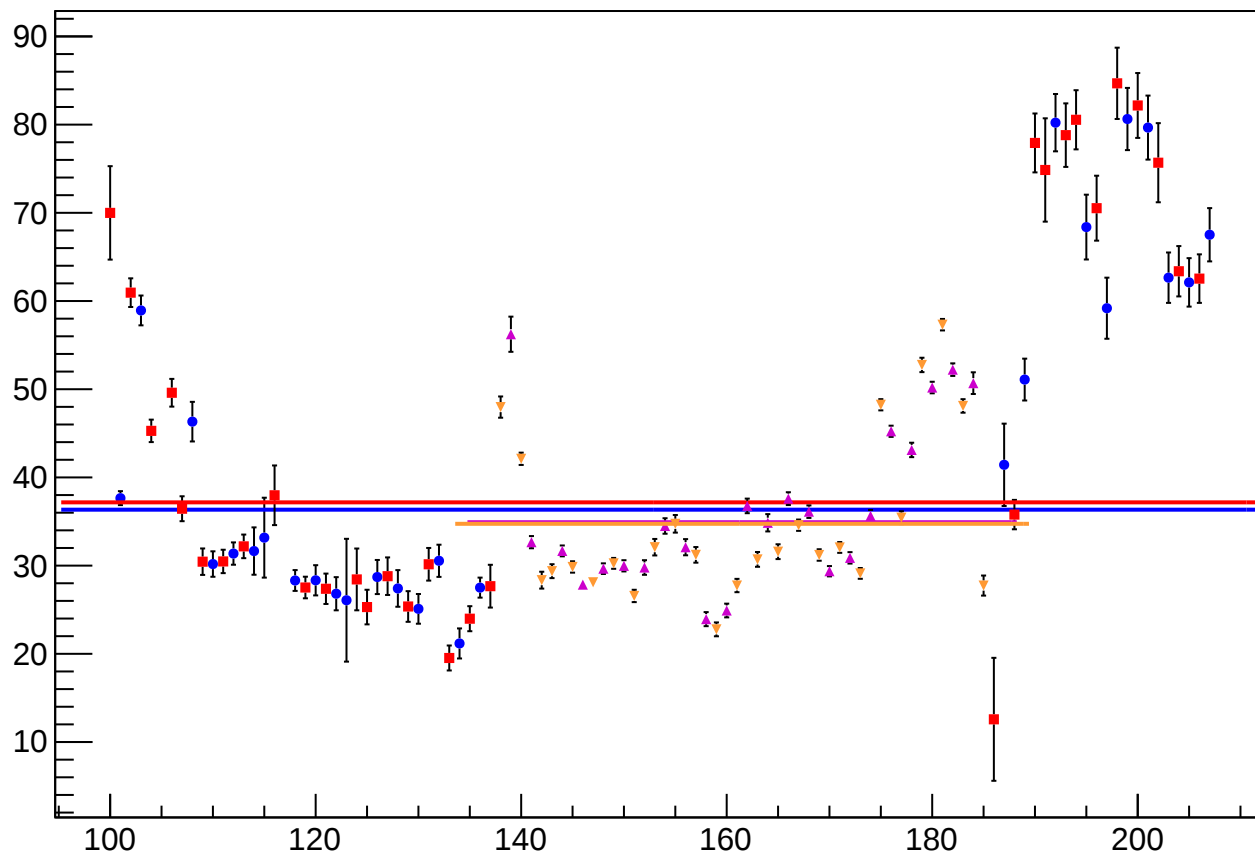
Right: -31.747 ± 0.522 χ^2/NDF : 1146.4/21

In: -40.210 ± 0.184 χ^2/NDF : 7359.3/32

Out: -40.152 ± 0.180 χ^2/NDF : 10143.9/36

All: -40.181 ± 0.129 χ^2/NDF : 17503.2/69

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 36.342 ± 0.352 $\chi^2/\text{NDF}: 1484.1/26$

Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$

Right Out: 37.173 ± 0.351 $\chi^2/\text{NDF}: 2003.2/30$

Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$

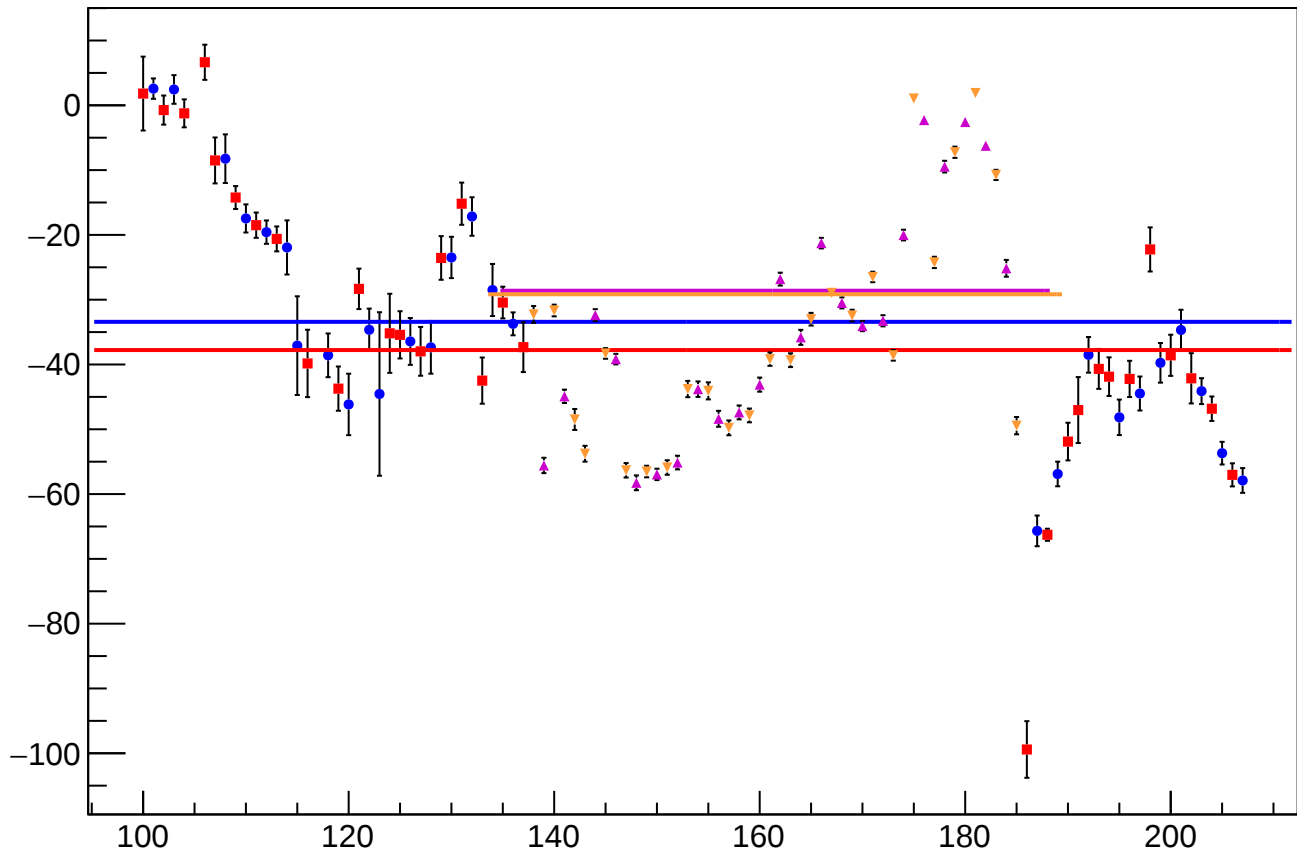
Right: 36.759 ± 0.248 $\chi^2/\text{NDF}: 3490.1/57$

In: 35.144 ± 0.139 $\chi^2/\text{NDF}: 4170.7/49$

Out: 35.106 ± 0.136 $\chi^2/\text{NDF}: 5737.2/55$

All: 35.125 ± 0.097 $\chi^2/\text{NDF}: 9908.0/105$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -33.418 ± 0.490 $\chi^2/\text{NDF}: 1724.3/26$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -37.773 ± 0.449 $\chi^2/\text{NDF}: 2712.2/30$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

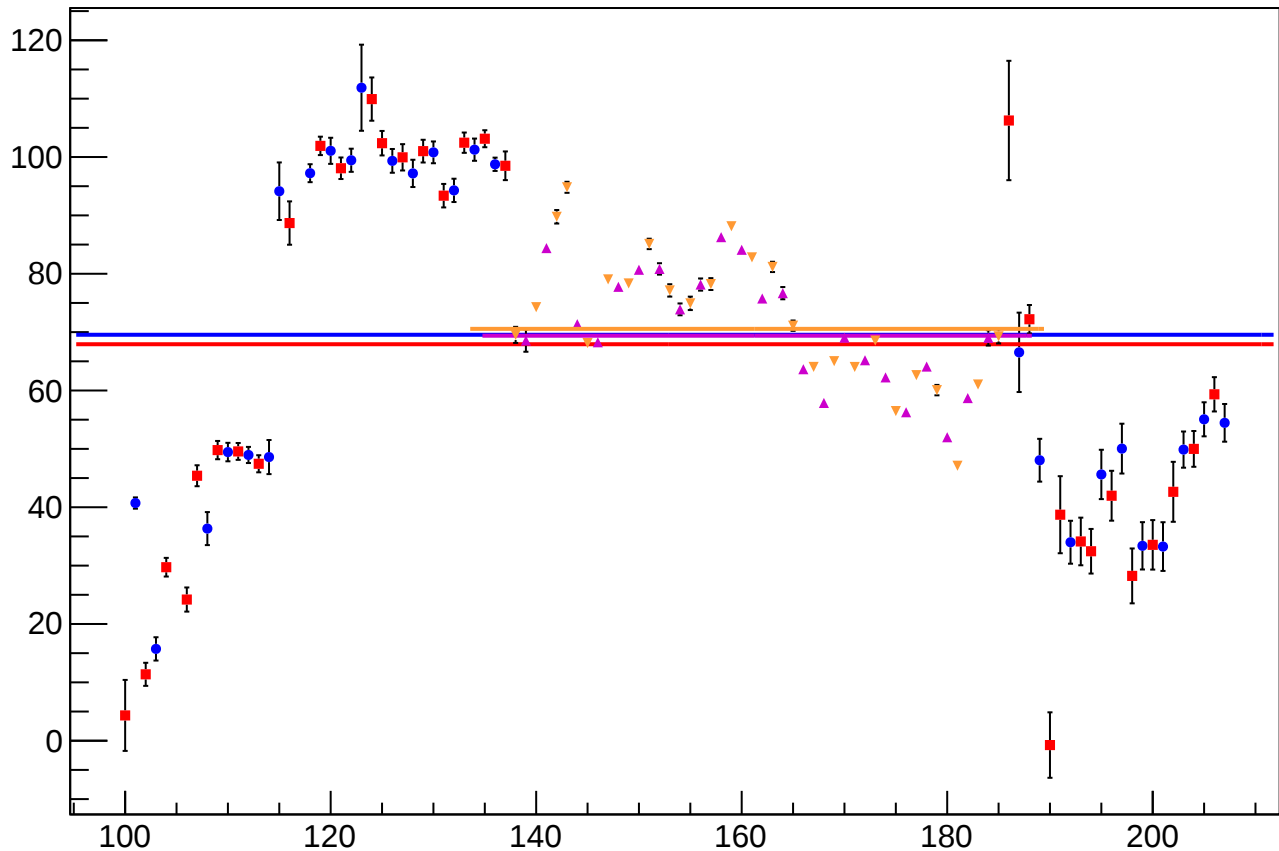
Right: -35.785 ± 0.331 $\chi^2/\text{NDF}: 4479.4/57$

In: -29.243 ± 0.177 $\chi^2/\text{NDF}: 10848.6/49$

Out: -30.435 ± 0.173 $\chi^2/\text{NDF}: 13151.4/55$

All: -29.854 ± 0.124 $\chi^2/\text{NDF}: 24023.3/105$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.549 ± 0.403 $\chi^2/\text{NDF}: 5143.3/26$

Left Out: 70.563 ± 0.166 $\chi^2/\text{NDF}: 4589.1/24$

Right Out: 67.927 ± 0.405 $\chi^2/\text{NDF}: 6120.3/30$

Left In: 69.387 ± 0.170 $\chi^2/\text{NDF}: 3321.8/22$

Left: 69.989 ± 0.119 $\chi^2/\text{NDF}: 7935.4/47$

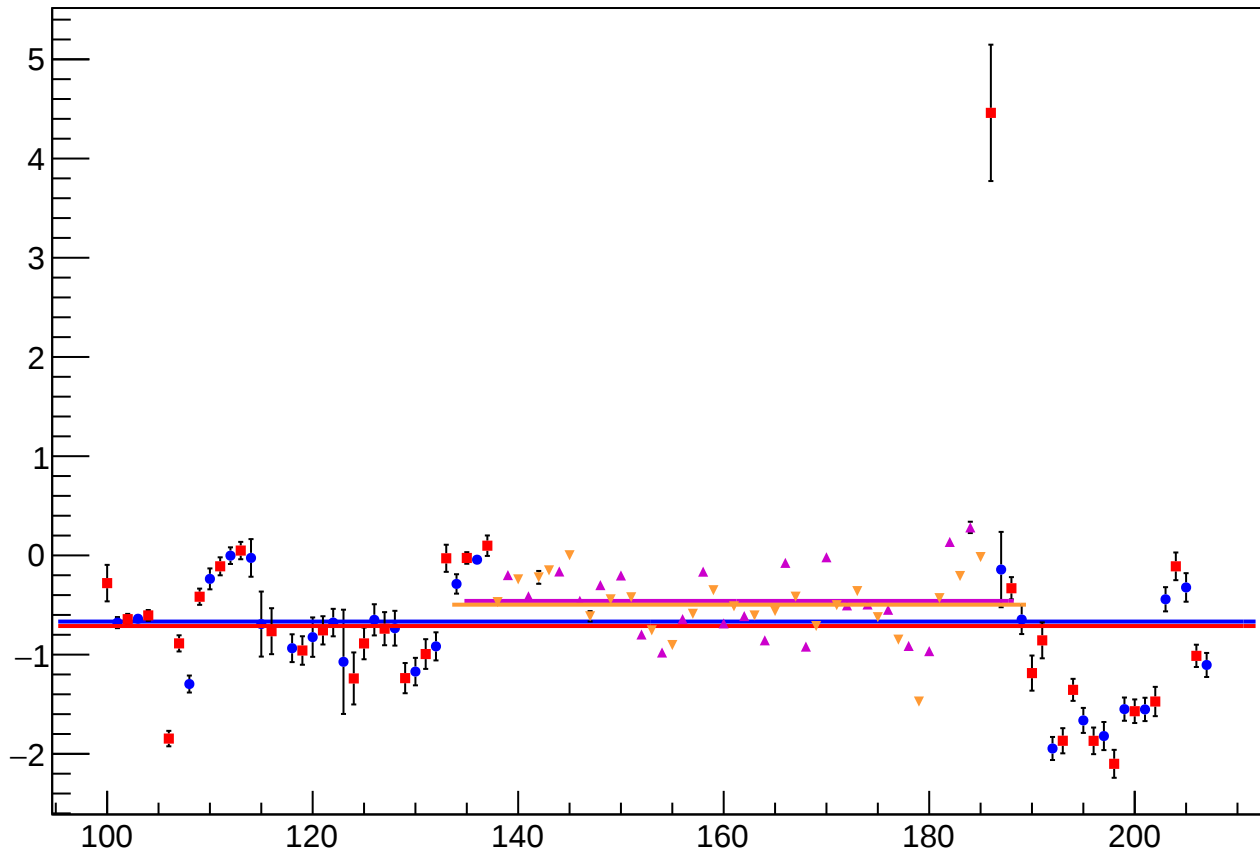
Right: 68.742 ± 0.286 $\chi^2/\text{NDF}: 11271.7/57$

In: 69.412 ± 0.157 $\chi^2/\text{NDF}: 8465.3/49$

Out: 70.183 ± 0.154 $\chi^2/\text{NDF}: 10745.6/55$

All: 69.805 ± 0.110 $\chi^2/\text{NDF}: 19223.3/105$

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.667 ± 0.020 χ^2/NDF : 746.1/26

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.712 ± 0.019 χ^2/NDF : 1077.7/30

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

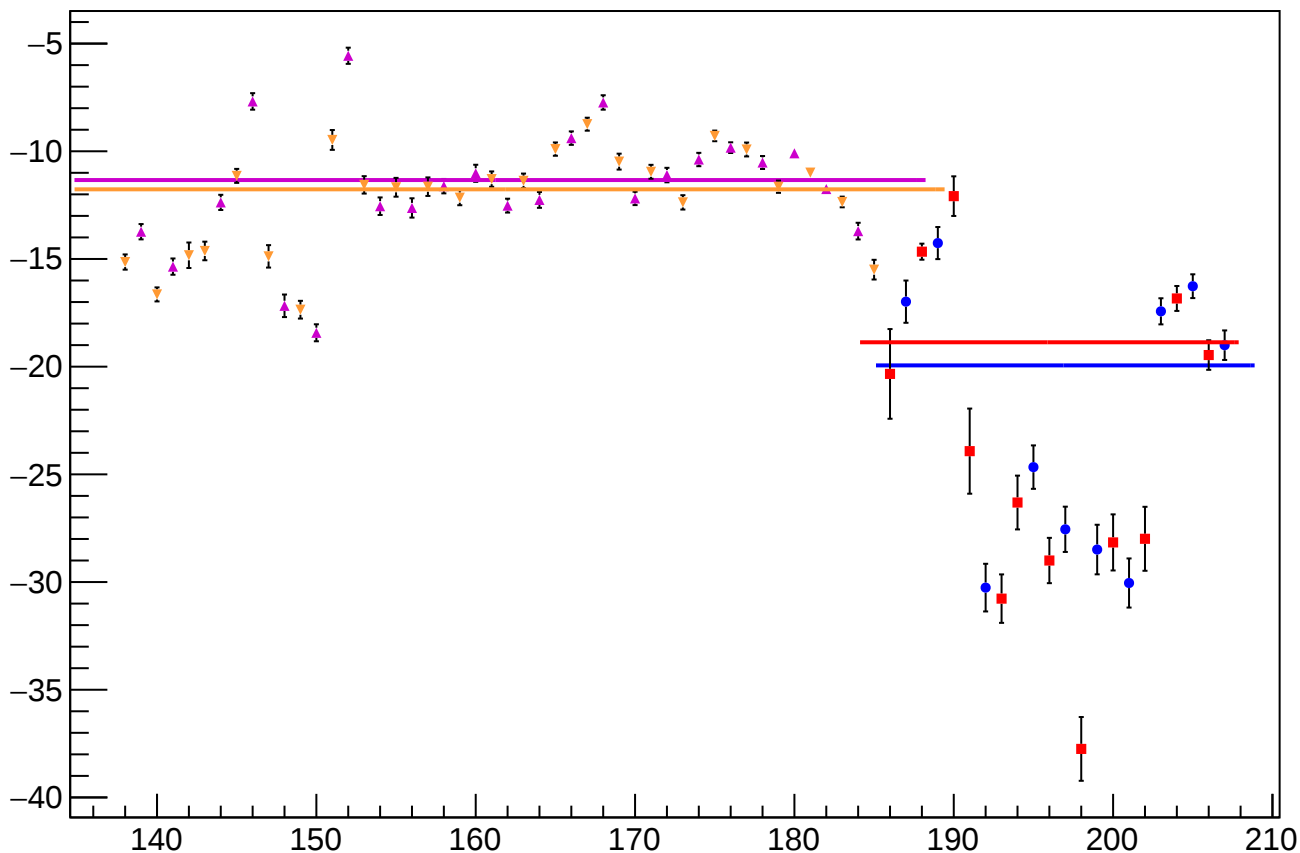
Right: -0.690 ± 0.014 χ^2/NDF : 1826.6/57

In: -0.486 ± 0.007 χ^2/NDF : 2800.8/49

Out: -0.527 ± 0.007 χ^2/NDF : 2639.2/55

All: -0.507 ± 0.005 χ^2/NDF : 5456.0/105

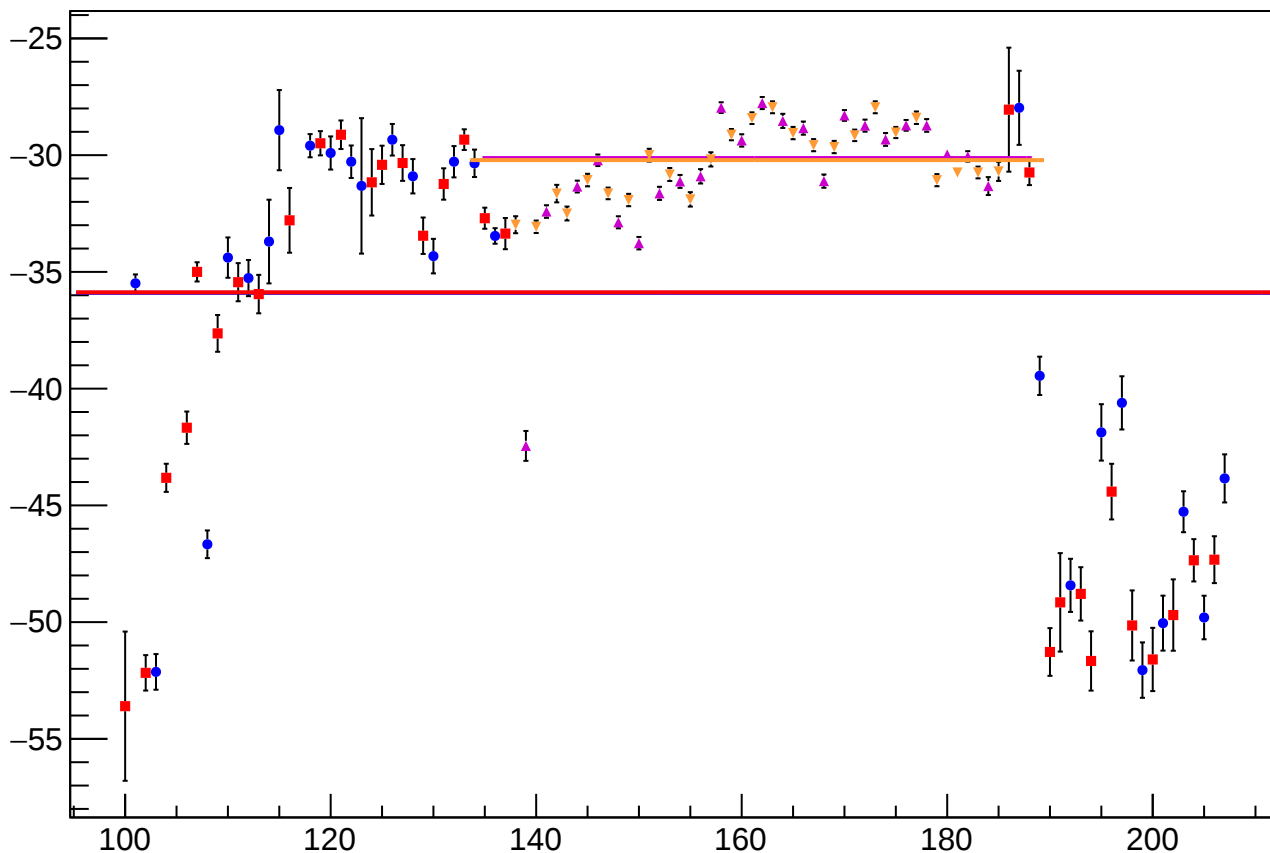
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.941 ± 0.257 $\chi^2/\text{NDF}: 425.5/9$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.868 ± 0.237 $\chi^2/\text{NDF}: 693.7/11$
 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: -19.362 ± 0.174 $\chi^2/\text{NDF}: 1128.7/21$
 In: -11.901 ± 0.066 $\chi^2/\text{NDF}: 2746.1/32$
 Out: -12.288 ± 0.064 $\chi^2/\text{NDF}: 2547.5/36$
 All: -12.100 ± 0.046 $\chi^2/\text{NDF}: 5311.3/69$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.895 ± 0.138 χ^2/NDF : 2393.3/26

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -35.875 ± 0.136 χ^2/NDF : 2767.5/30

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

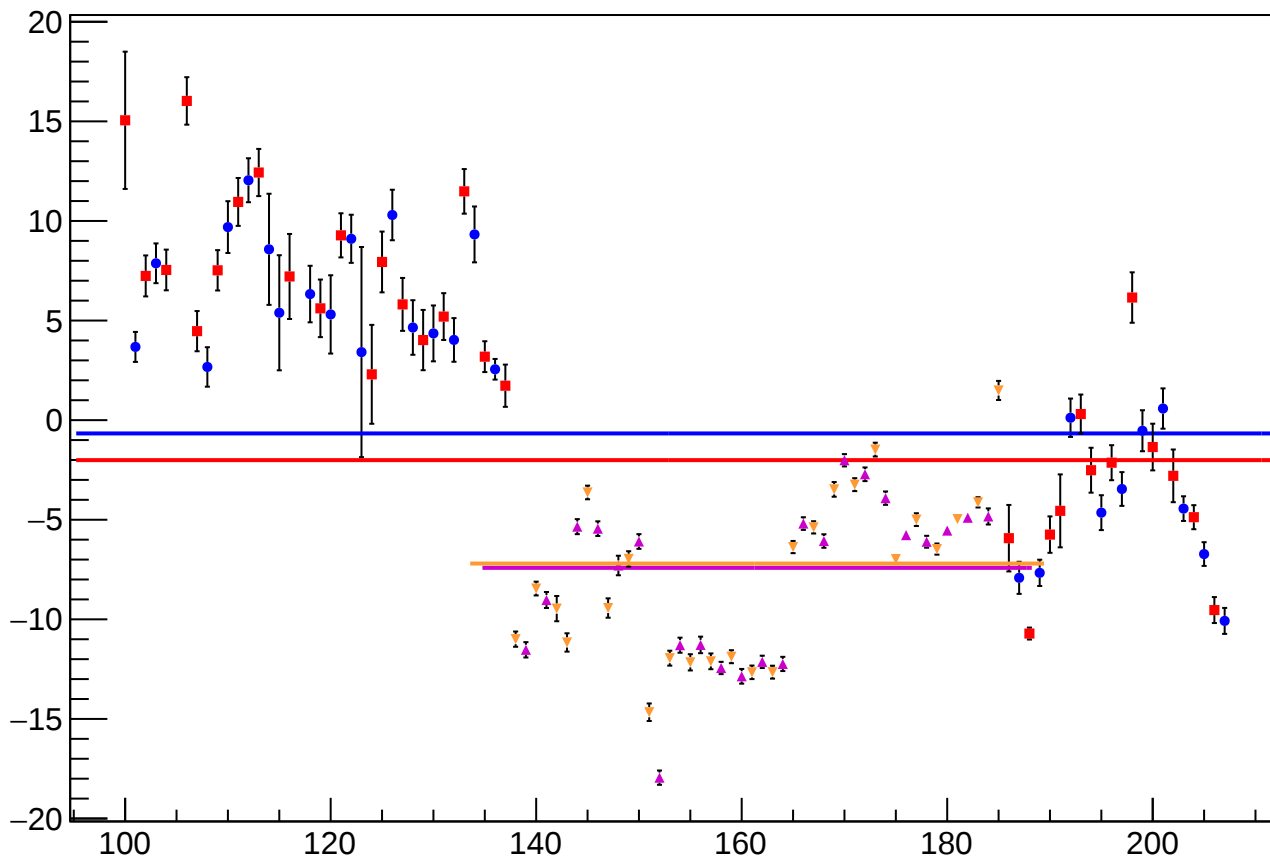
Right: -35.885 ± 0.097 χ^2/NDF : 5160.7/57

In: -30.924 ± 0.052 χ^2/NDF : 5118.2/49

Out: -30.983 ± 0.050 χ^2/NDF : 5006.4/55

All: -30.954 ± 0.036 χ^2/NDF : 10125.3/105

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.667 ± 0.180 χ^2/NDF : 1215.3/26

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -2.008 ± 0.166 χ^2/NDF : 2371.6/30

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

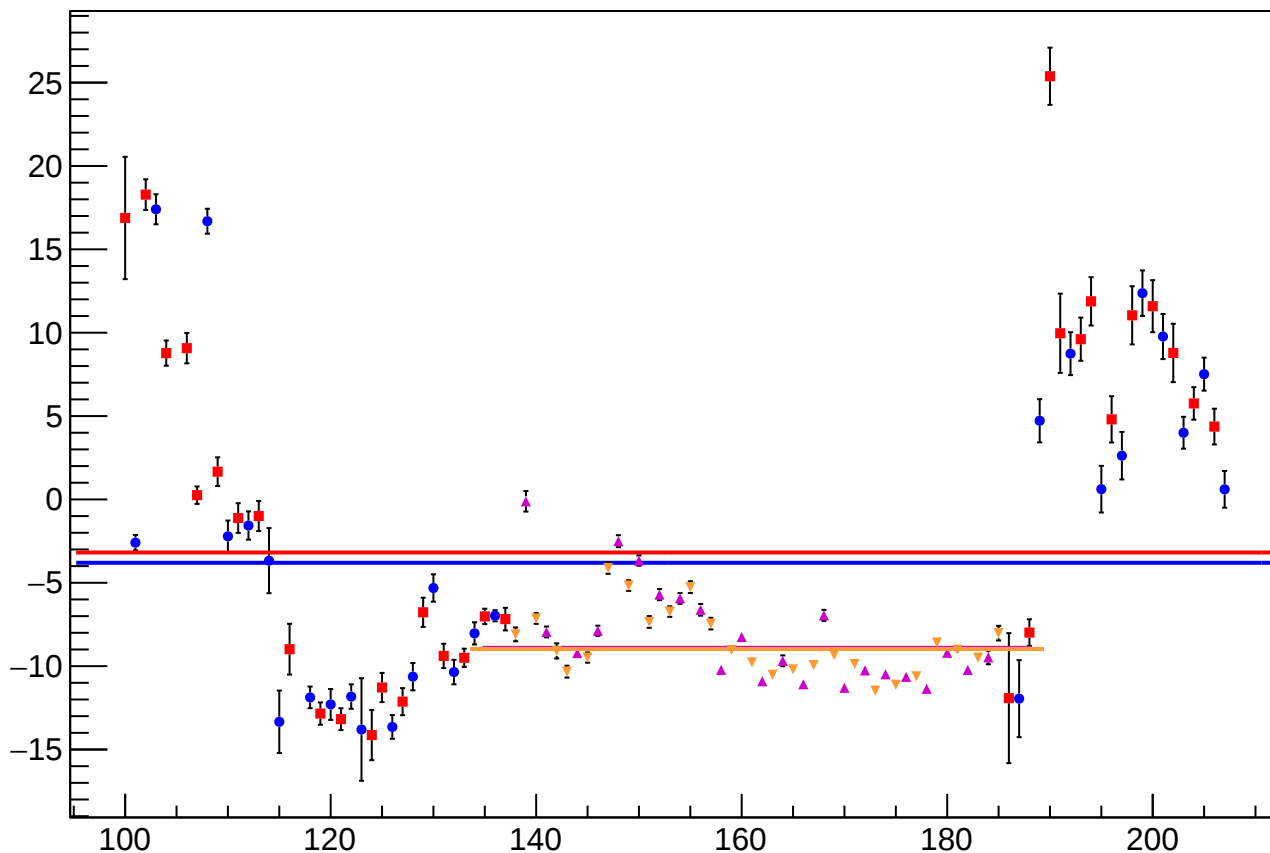
Right: -1.391 ± 0.122 χ^2/NDF : 3617.0/57

In: -6.573 ± 0.063 χ^2/NDF : 5572.4/49

Out: -6.473 ± 0.062 χ^2/NDF : 6251.1/55

All: -6.522 ± 0.044 χ^2/NDF : 11824.8/105

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.800 ± 0.157 $\chi^2/\text{NDF}: 2825.6/26$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -3.183 ± 0.158 $\chi^2/\text{NDF}: 3058.2/30$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

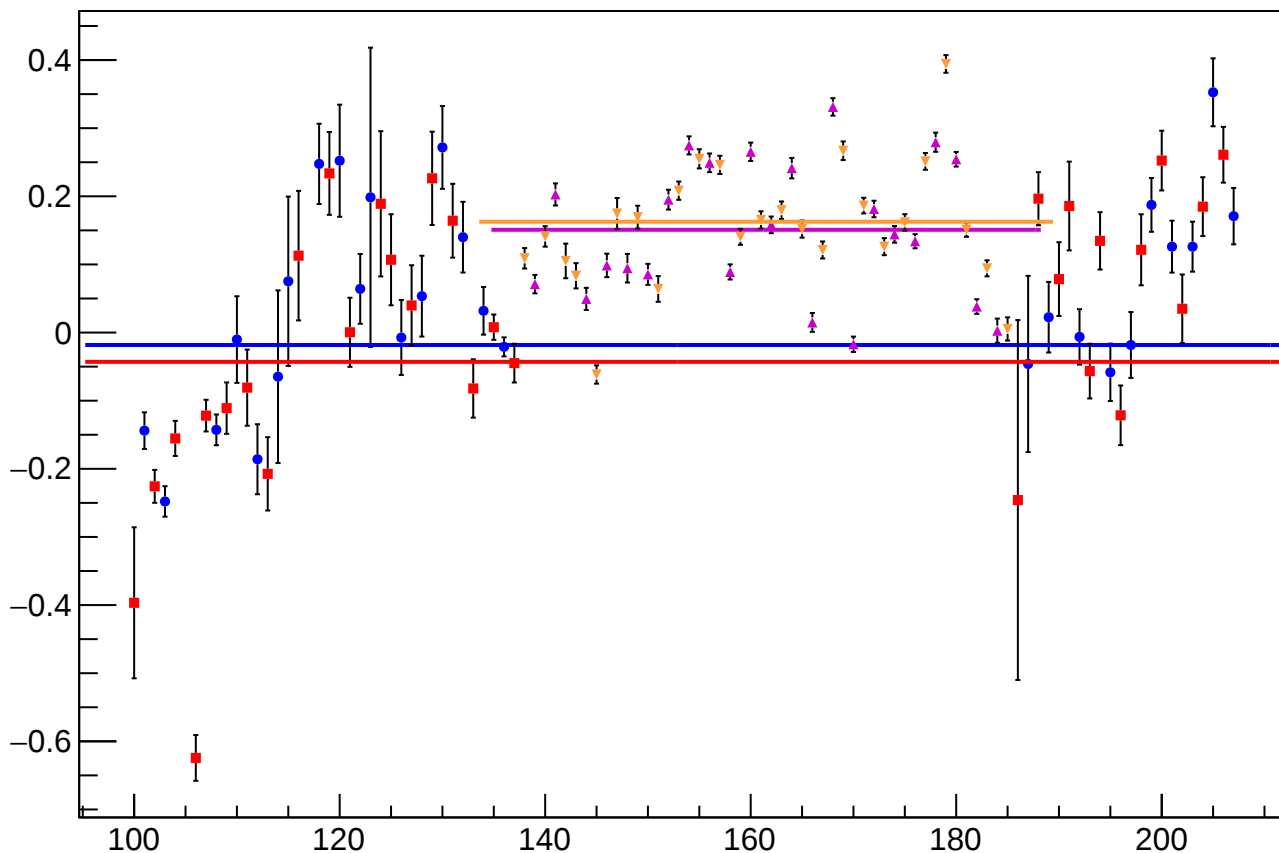
Right: -3.494 ± 0.111 $\chi^2/\text{NDF}: 5891.5/57$

In: -8.219 ± 0.057 $\chi^2/\text{NDF}: 5274.2/49$

Out: -8.237 ± 0.056 $\chi^2/\text{NDF}: 5108.9/55$

All: -8.228 ± 0.040 $\chi^2/\text{NDF}: 10383.2/105$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.018 ± 0.007 χ^2/NDF : 374.5/26

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.043 ± 0.007 χ^2/NDF : 702.2/30

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

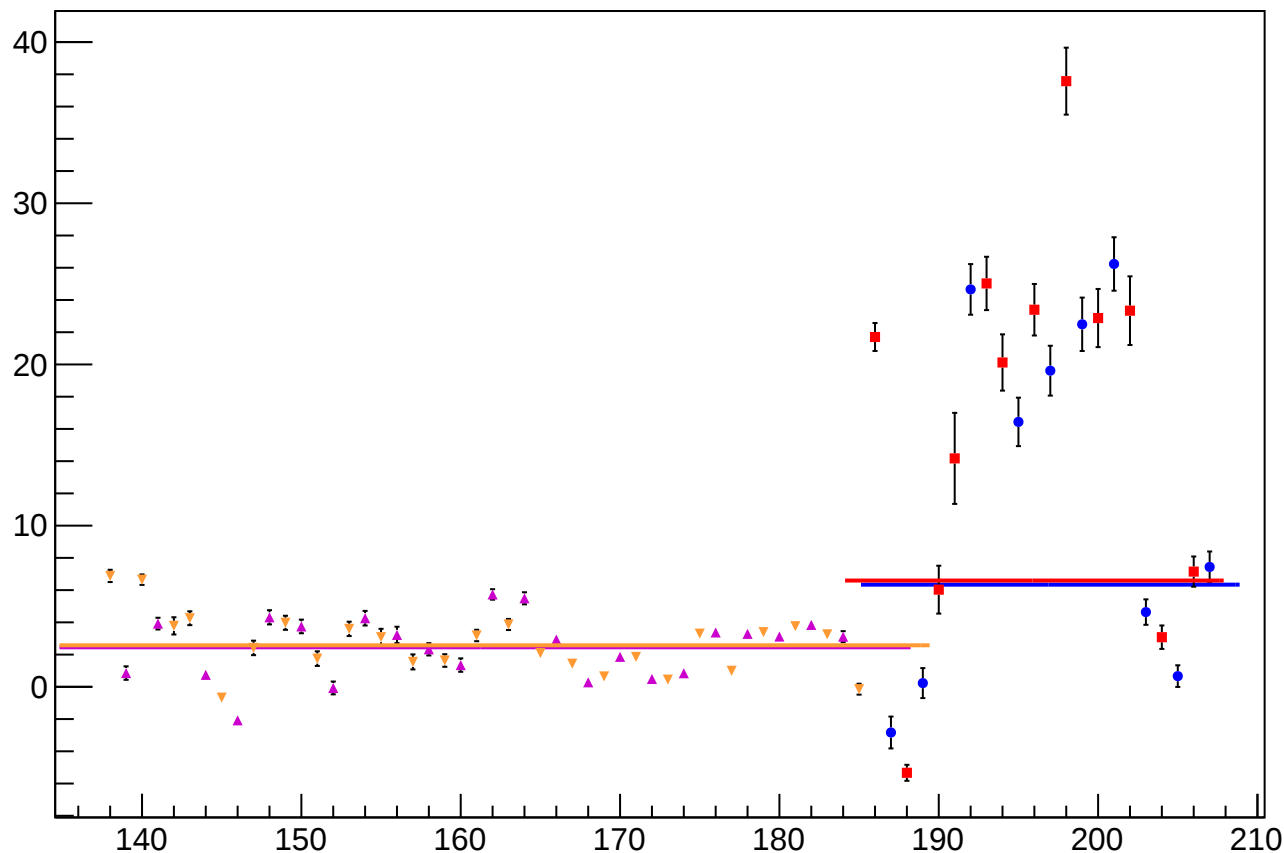
Right: -0.031 ± 0.005 χ^2/NDF : 1082.6/57

In: 0.129 ± 0.003 χ^2/NDF : 2140.7/49

Out: 0.137 ± 0.003 χ^2/NDF : 2437.5/55

All: 0.133 ± 0.002 χ^2/NDF : 4582.5/105

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.340 ± 0.332 $\chi^2/\text{NDF}: 700.5/9$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 6.594 ± 0.304 $\chi^2/\text{NDF}: 1572.9/11$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

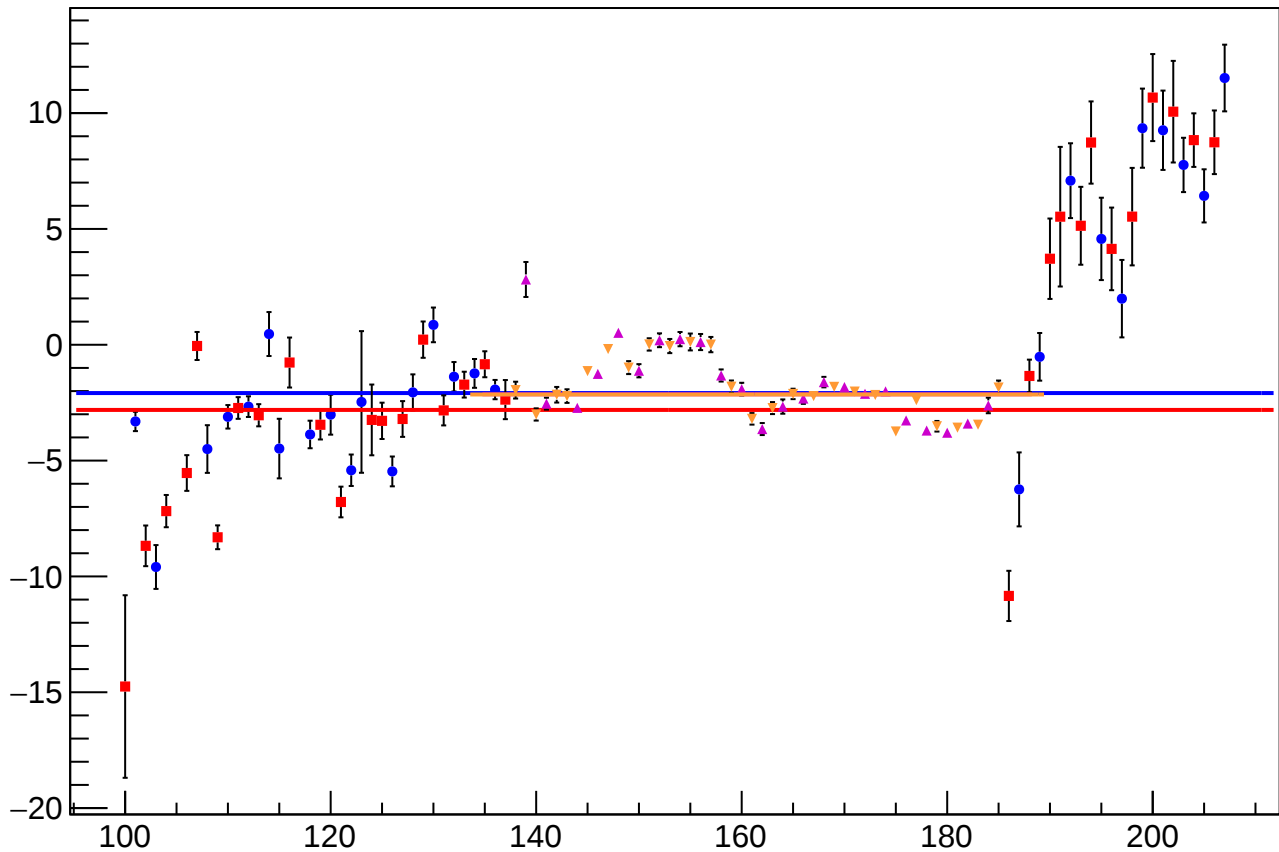
Right: 6.478 ± 0.224 $\chi^2/\text{NDF}: 2273.6/21$

In: 2.573 ± 0.058 $\chi^2/\text{NDF}: 1704.7/32$

Out: 2.719 ± 0.057 $\chi^2/\text{NDF}: 2609.1/36$

All: 2.648 ± 0.041 $\chi^2/\text{NDF}: 4317.0/69$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.085+/-0.146 χ^2/NDF : 539.1/26

Left Out: -2.146+/-0.048 χ^2/NDF : 573.4/24

Right Out: -2.813+/-0.144 χ^2/NDF : 748.7/30

Left In: -2.136+/-0.048 χ^2/NDF : 691.2/22

Left: -2.141+/-0.034 χ^2/NDF : 1264.6/47

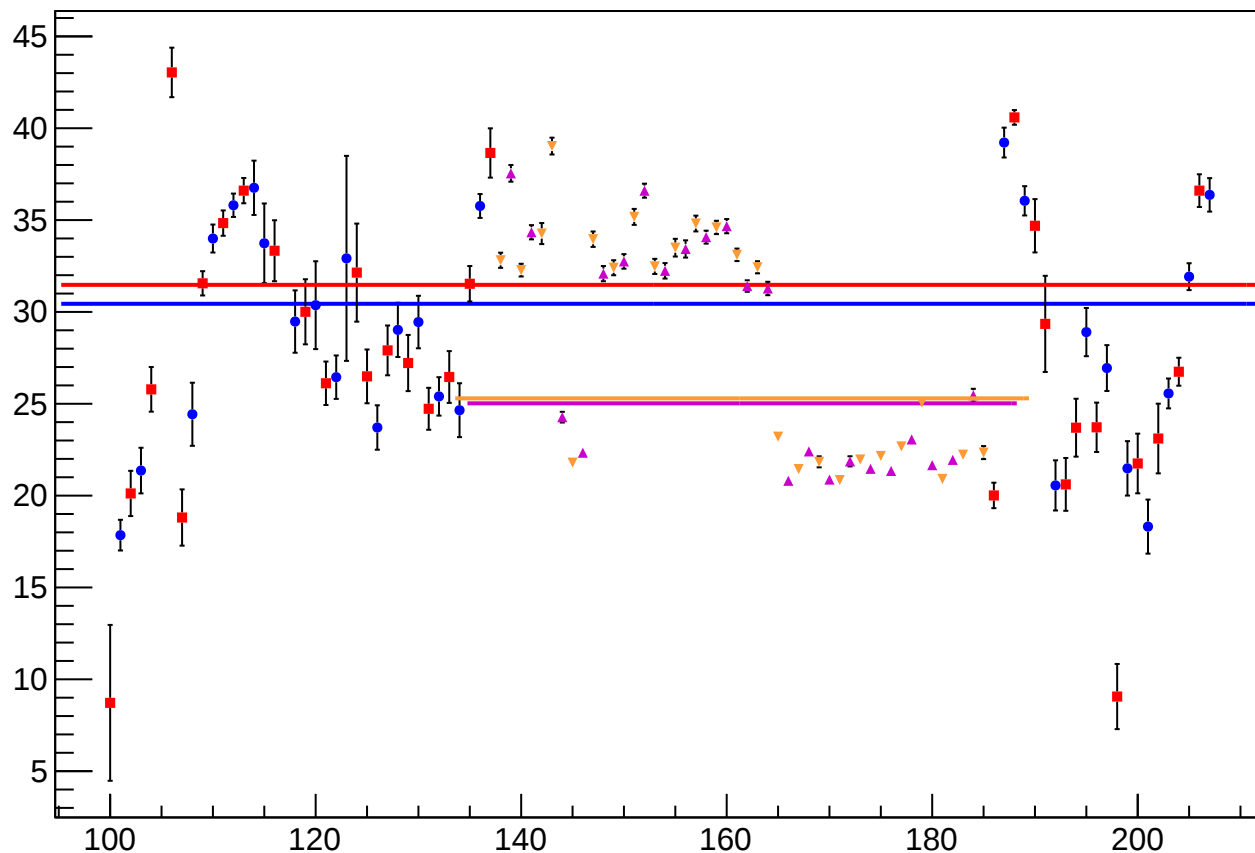
Right: -2.454+/-0.103 χ^2/NDF : 1300.4/57

In: -2.131+/-0.046 χ^2/NDF : 1230.5/49

Out: -2.211+/-0.045 χ^2/NDF : 1341.3/55

All: -2.172+/-0.032 χ^2/NDF : 2573.3/105

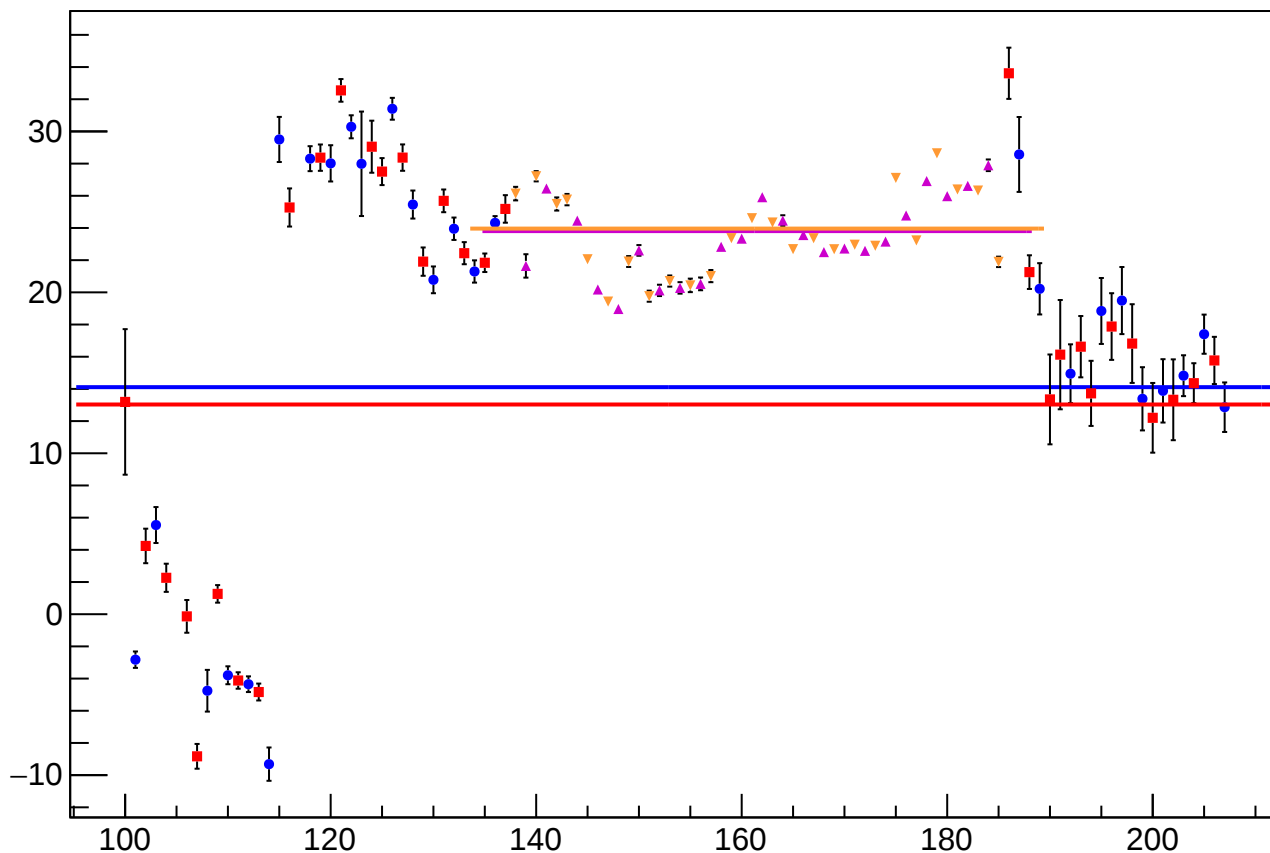
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.443 ± 0.203 $\chi^2/\text{NDF}: 972.1/26$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 31.474 ± 0.185 $\chi^2/\text{NDF}: 1681.3/30$
 Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$
 Right: 31.005 ± 0.137 $\chi^2/\text{NDF}: 2667.4/57$
 In: 25.456 ± 0.057 $\chi^2/\text{NDF}: 9239.2/49$
 Out: 25.861 ± 0.056 $\chi^2/\text{NDF}: 10962.5/55$
 All: 25.662 ± 0.040 $\chi^2/\text{NDF}: 20227.4/105$

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.109 $\pm$ 0.164 χ^2 /NDF: 7351.4/26

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.031 $\pm$ 0.164 χ^2 /NDF: 7212.2/30

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

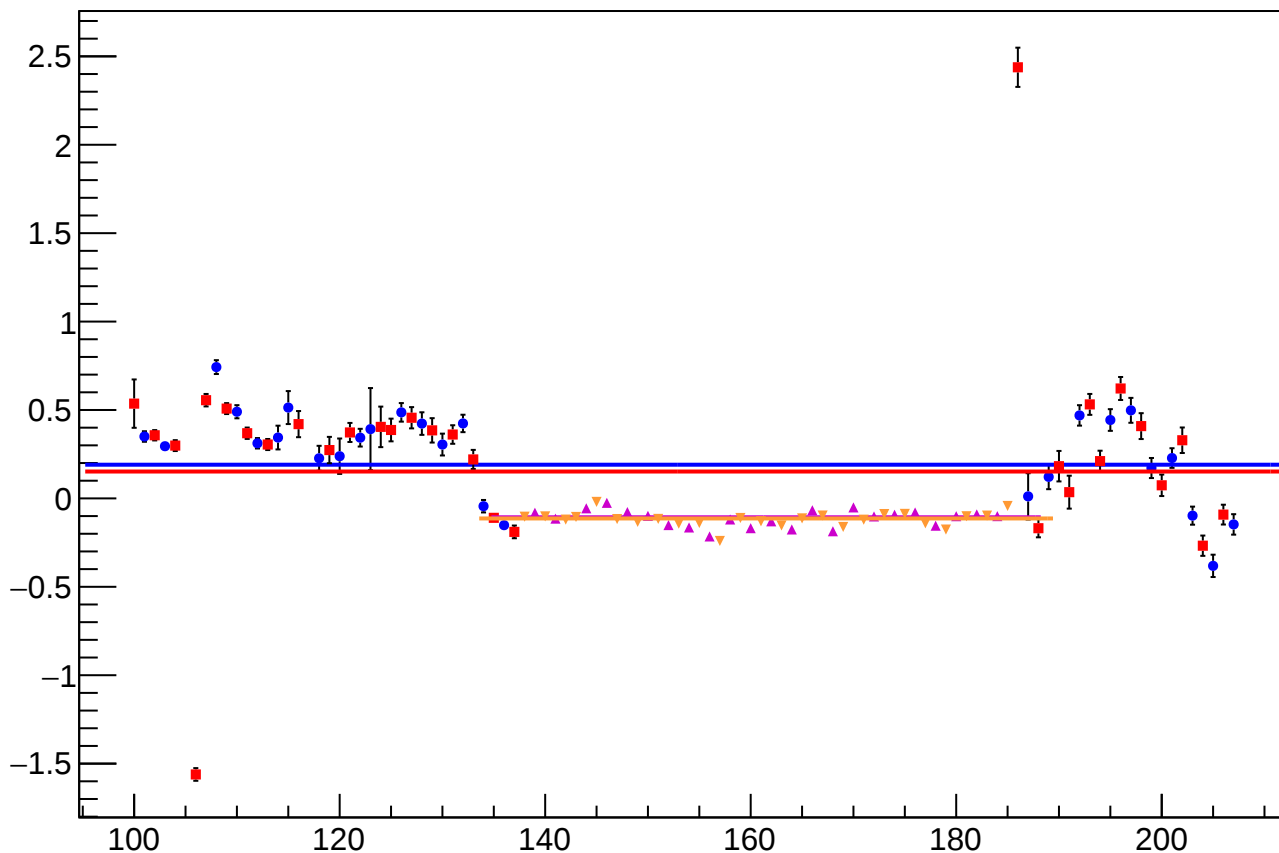
Right: 13.570 $\pm$ 0.116 χ^2 /NDF: 14585.1/57

In: 22.860 $\pm$ 0.051 χ^2 /NDF:12251.3/49

Out: 22.928 $\pm$ 0.051 χ^2 /NDF:13133.3/55

All: 22.895 $\pm$ 0.036 χ^2 /NDF: 25385.5/105

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.191 ± 0.008 χ^2/NDF : 1059.5/26

Left Out: -0.113 ± 0.002 χ^2/NDF : 291.0/24

Right Out: 0.152 ± 0.008 χ^2/NDF : 3667.1/30

Left In: -0.107 ± 0.002 χ^2/NDF : 321.8/22

Left: -0.110 ± 0.002 χ^2/NDF : 616.6/47

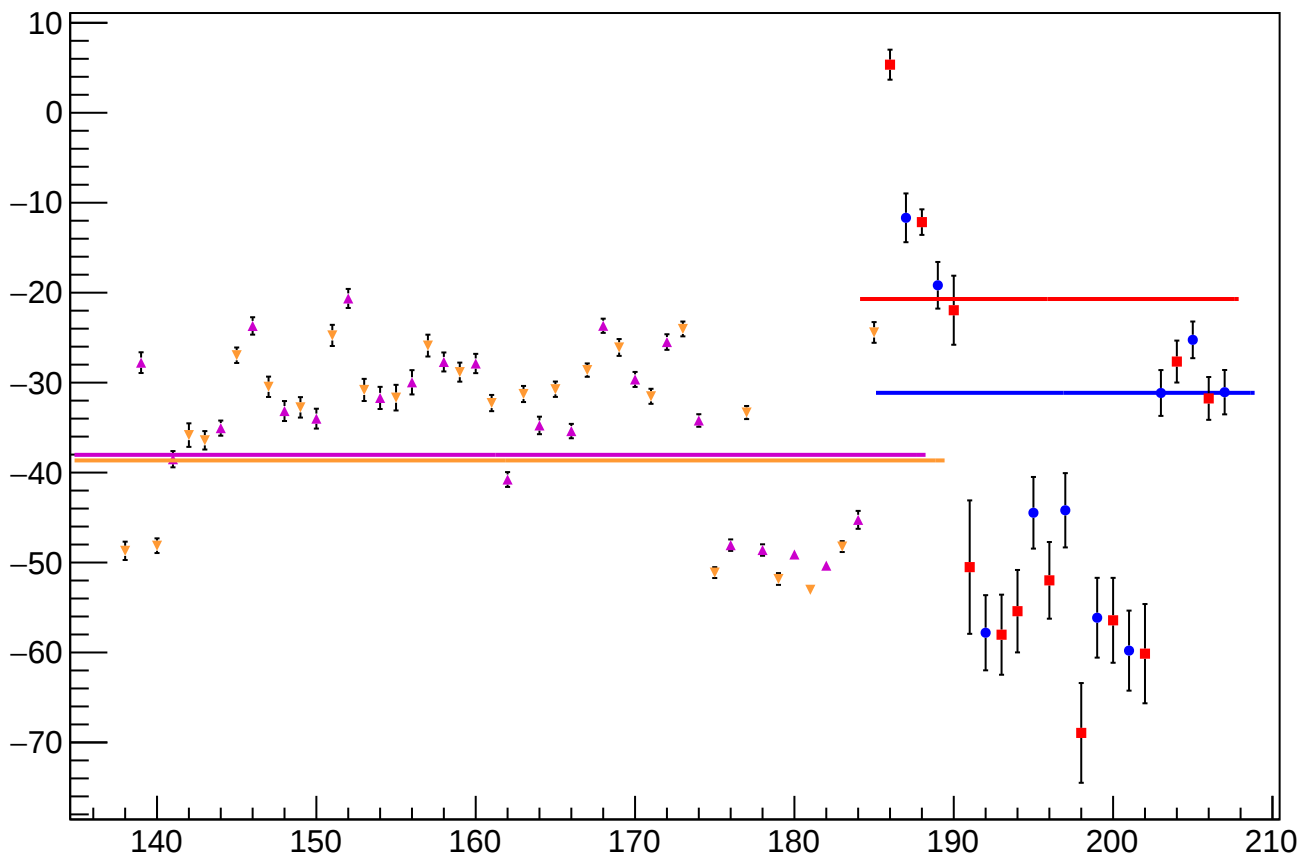
Right: 0.171 ± 0.006 χ^2/NDF : 4737.2/57

In: -0.083 ± 0.002 χ^2/NDF : 2517.6/49

Out: -0.093 ± 0.002 χ^2/NDF : 4903.3/55

All: -0.088 ± 0.002 χ^2/NDF : 7428.5/105

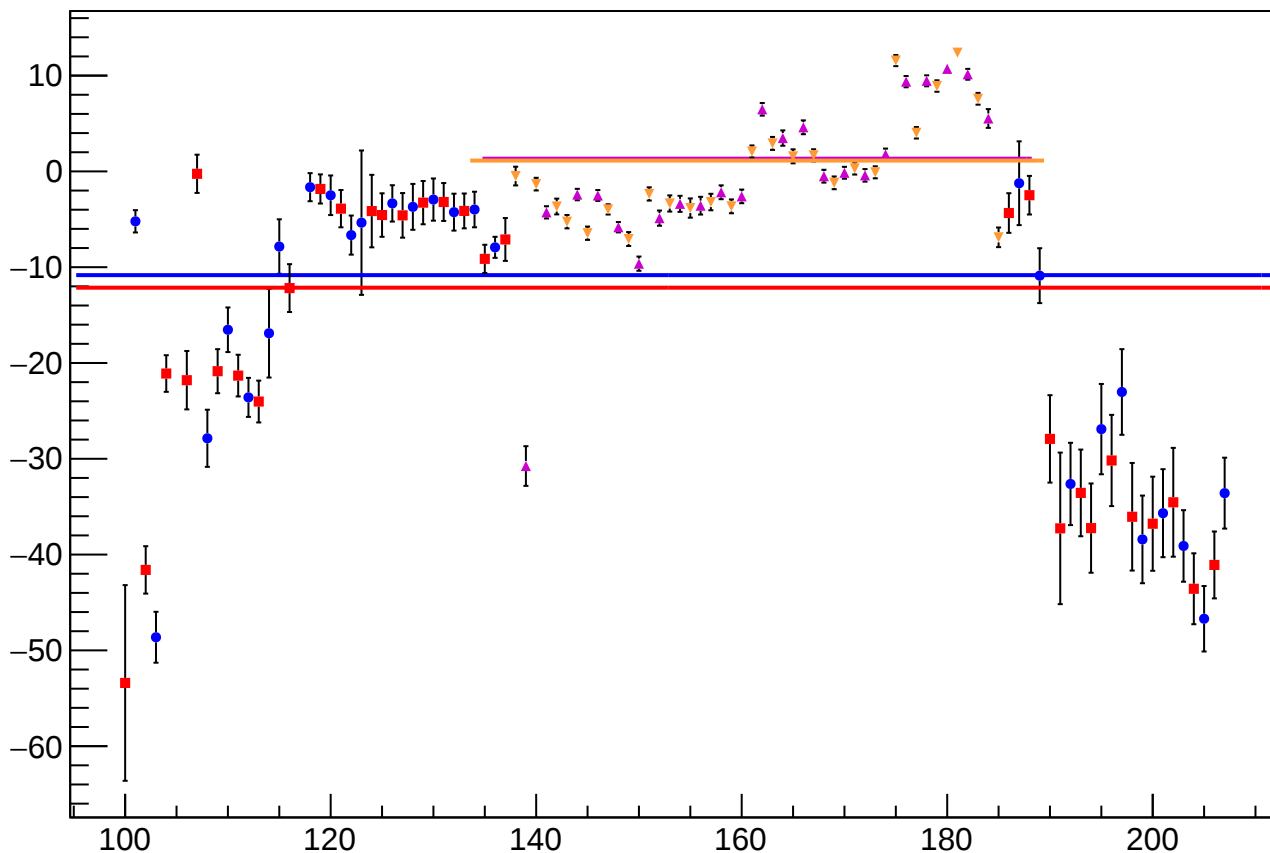
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.134 ± 0.943 χ^2/NDF : 216.3/9
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -20.703 ± 0.800 χ^2/NDF : 692.0/11
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -25.066 ± 0.610 χ^2/NDF : 979.5/21
 In: -37.802 ± 0.170 χ^2/NDF : 3359.9/32
 Out: -37.882 ± 0.165 χ^2/NDF : 5251.4/36
 All: -37.843 ± 0.119 χ^2/NDF : 8611.4/69

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.828 ± 0.437 χ^2/NDF : 756.8/26

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -12.139 ± 0.444 χ^2/NDF : 766.6/30

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

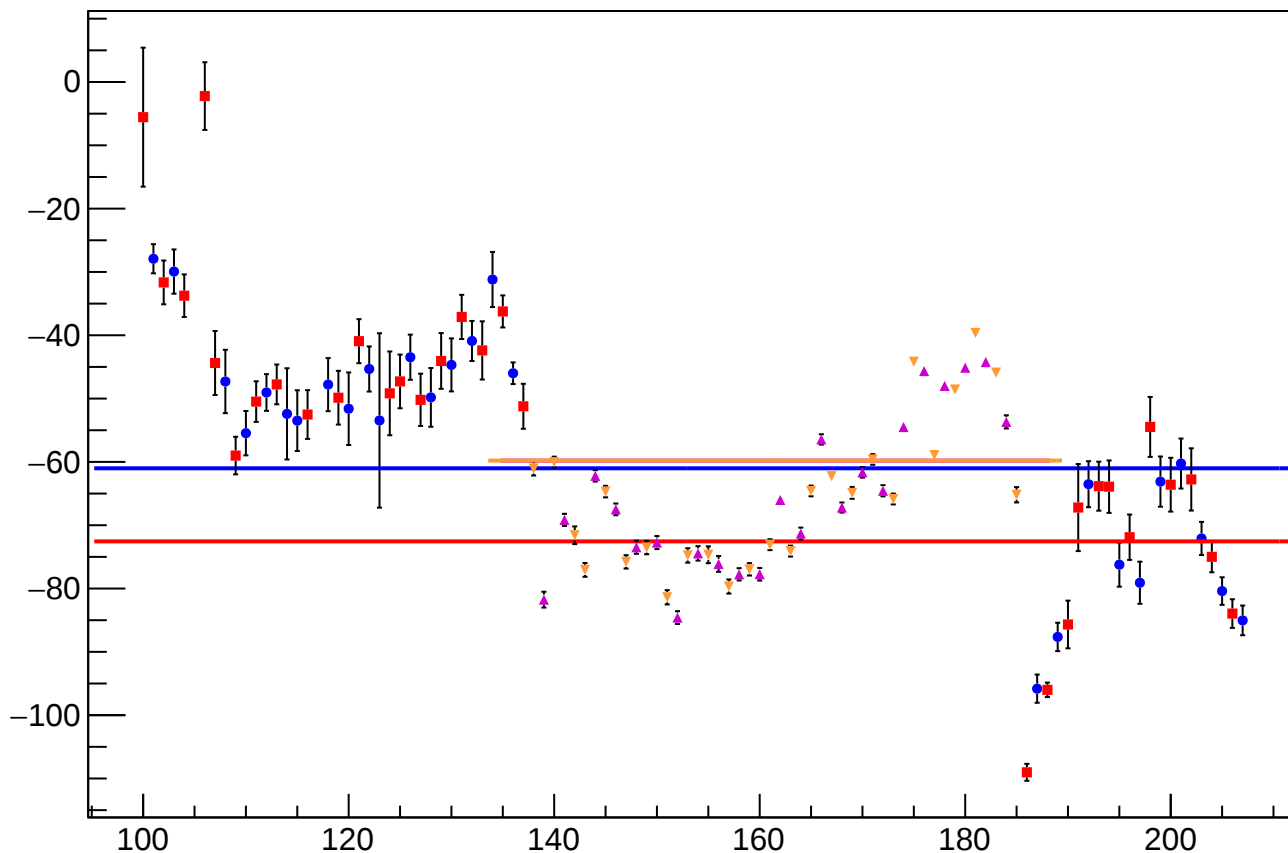
Right: -11.473 ± 0.311 χ^2/NDF : 1527.8/57

In: 0.199 ± 0.133 χ^2/NDF : 3507.6/49

Out: -0.009 ± 0.130 χ^2/NDF : 3383.4/55

All: 0.092 ± 0.093 χ^2/NDF : 6892.3/105

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -61.008 ± 0.604 $\chi^2/\text{NDF}: 1196.2/26$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -72.554 ± 0.539 $\chi^2/\text{NDF}: 2524.2/30$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

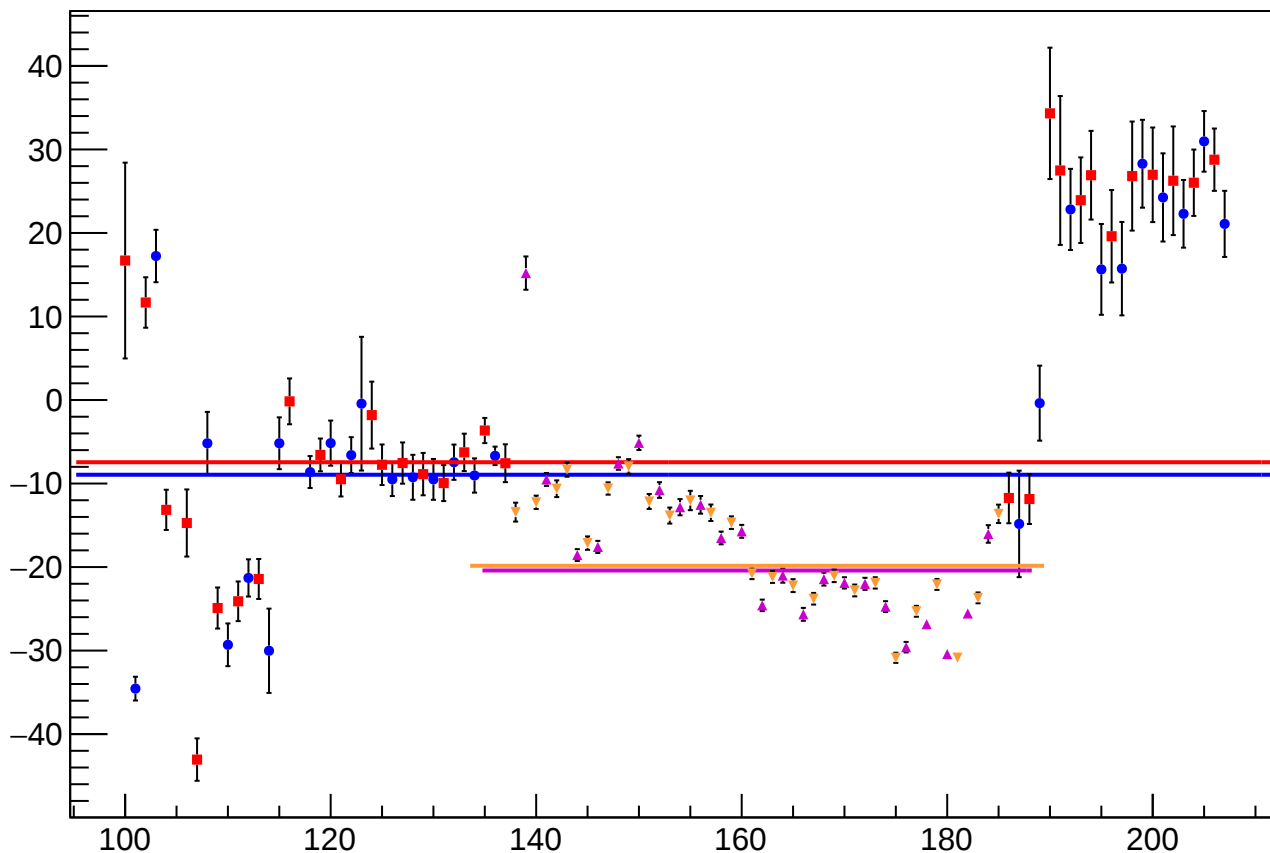
Right: -67.441 ± 0.402 $\chi^2/\text{NDF}: 3923.9/57$

In: -59.894 ± 0.167 $\chi^2/\text{NDF}: 6417.4/49$

Out: -60.946 ± 0.162 $\chi^2/\text{NDF}: 8872.6/55$

All: -60.434 ± 0.116 $\chi^2/\text{NDF}: 15310.5/105$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

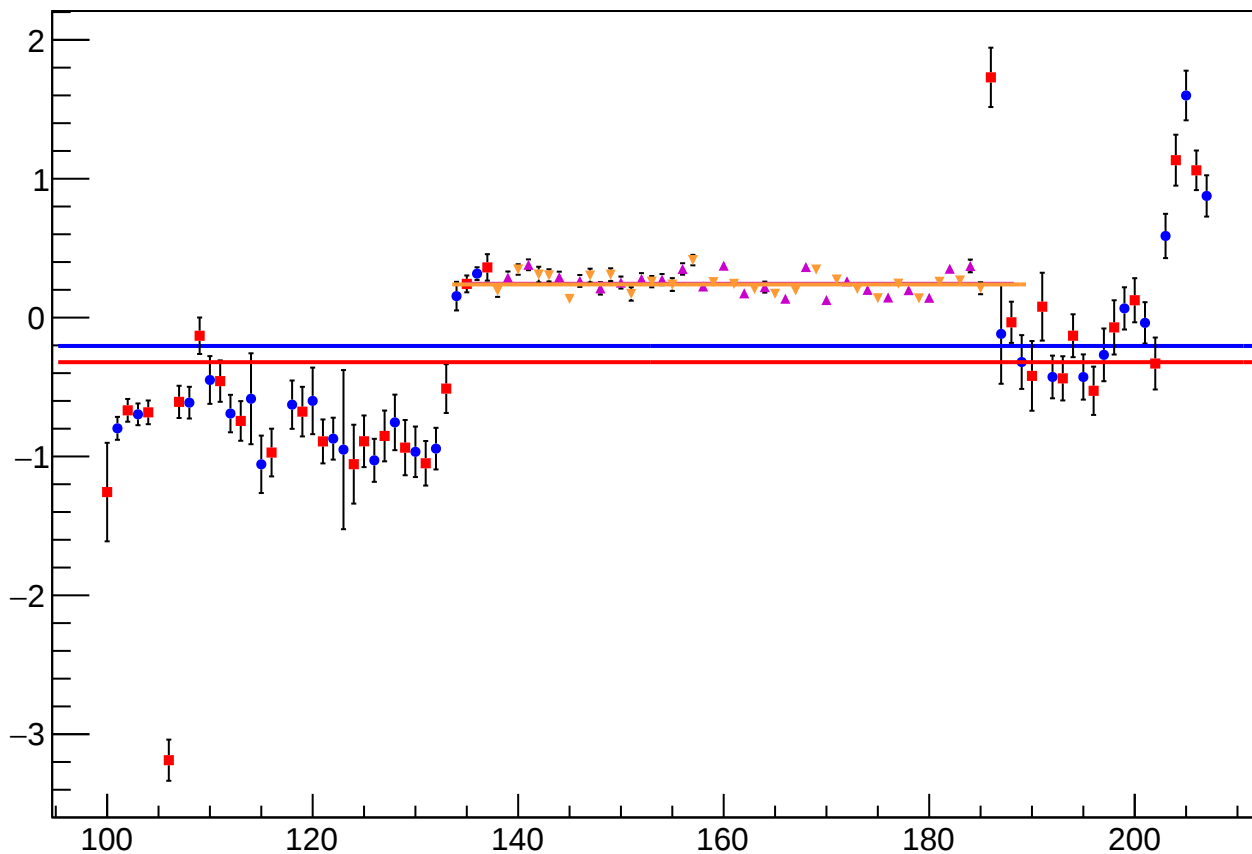


Right In: -8.946 ± 0.494 $\chi^2/\text{NDF}: 932.1/26$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -7.448 ± 0.512 $\chi^2/\text{NDF}: 809.7/30$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -8.224 ± 0.355 $\chi^2/\text{NDF}: 1746.2/57$
 In: -19.362 ± 0.149 $\chi^2/\text{NDF}: 3723.5/49$
 Out: -18.833 ± 0.146 $\chi^2/\text{NDF}: 3280.2/55$

All: -19.092 ± 0.105 $\chi^2/\text{NDF}: 7010.2/105$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.204 ± 0.025 χ^2/NDF : 573.5/26

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.321 ± 0.025 χ^2/NDF : 927.4/30

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

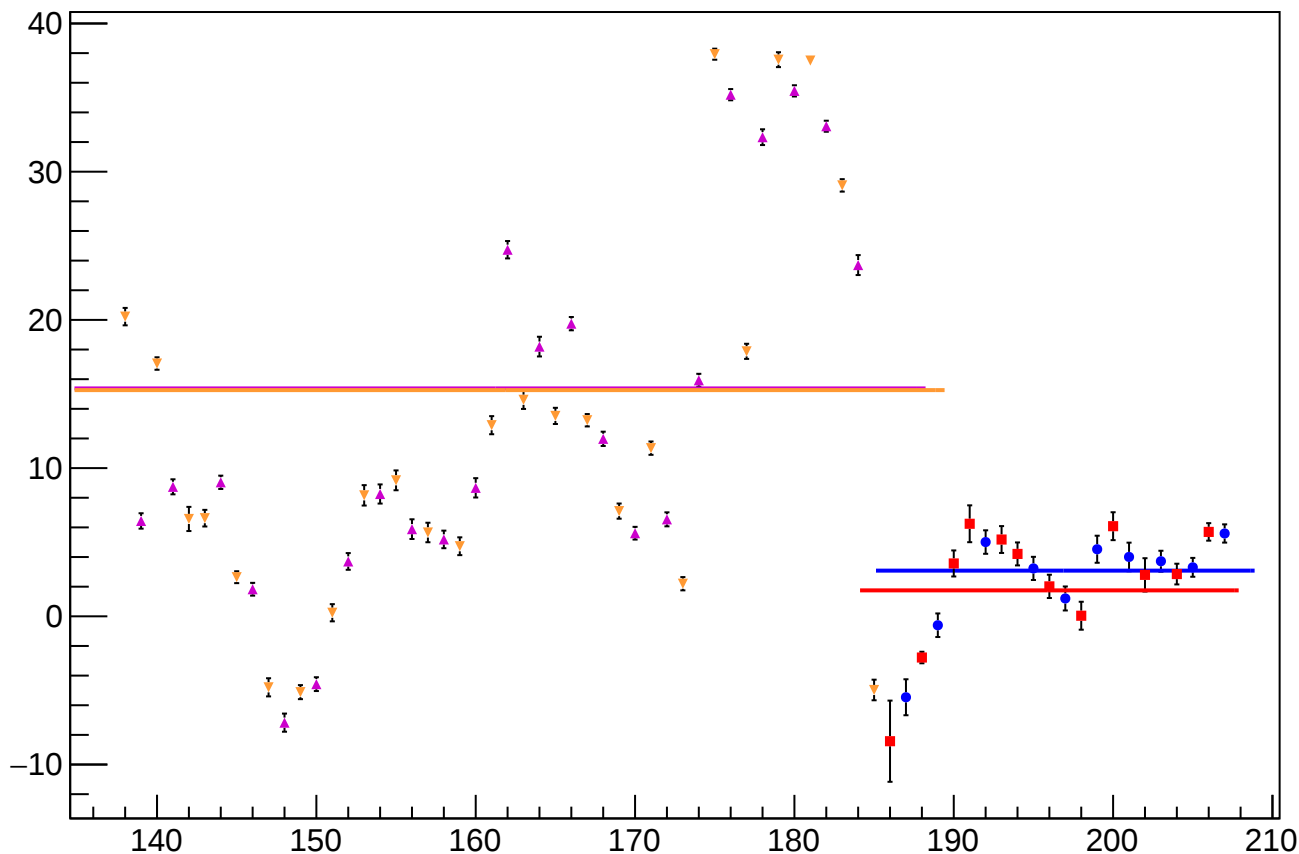
Right: -0.262 ± 0.017 χ^2/NDF : 1512.0/57

In: 0.208 ± 0.007 χ^2/NDF : 1018.1/49

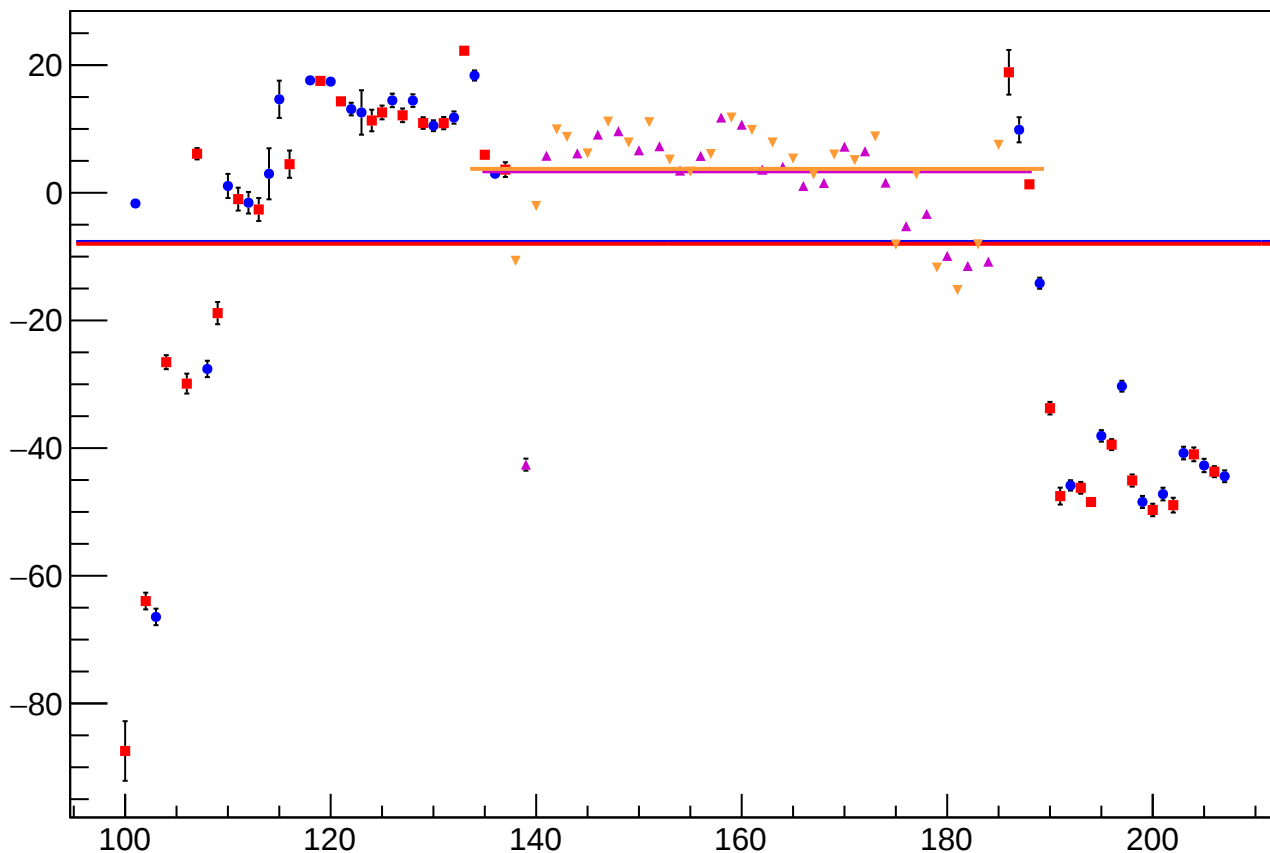
Out: 0.198 ± 0.007 χ^2/NDF : 1487.6/55

All: 0.203 ± 0.005 χ^2/NDF : 2506.9/105

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.706 ± 0.177 χ^2/NDF : 21714.5/26

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -7.986 ± 0.167 χ^2/NDF : 27506.4/30

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

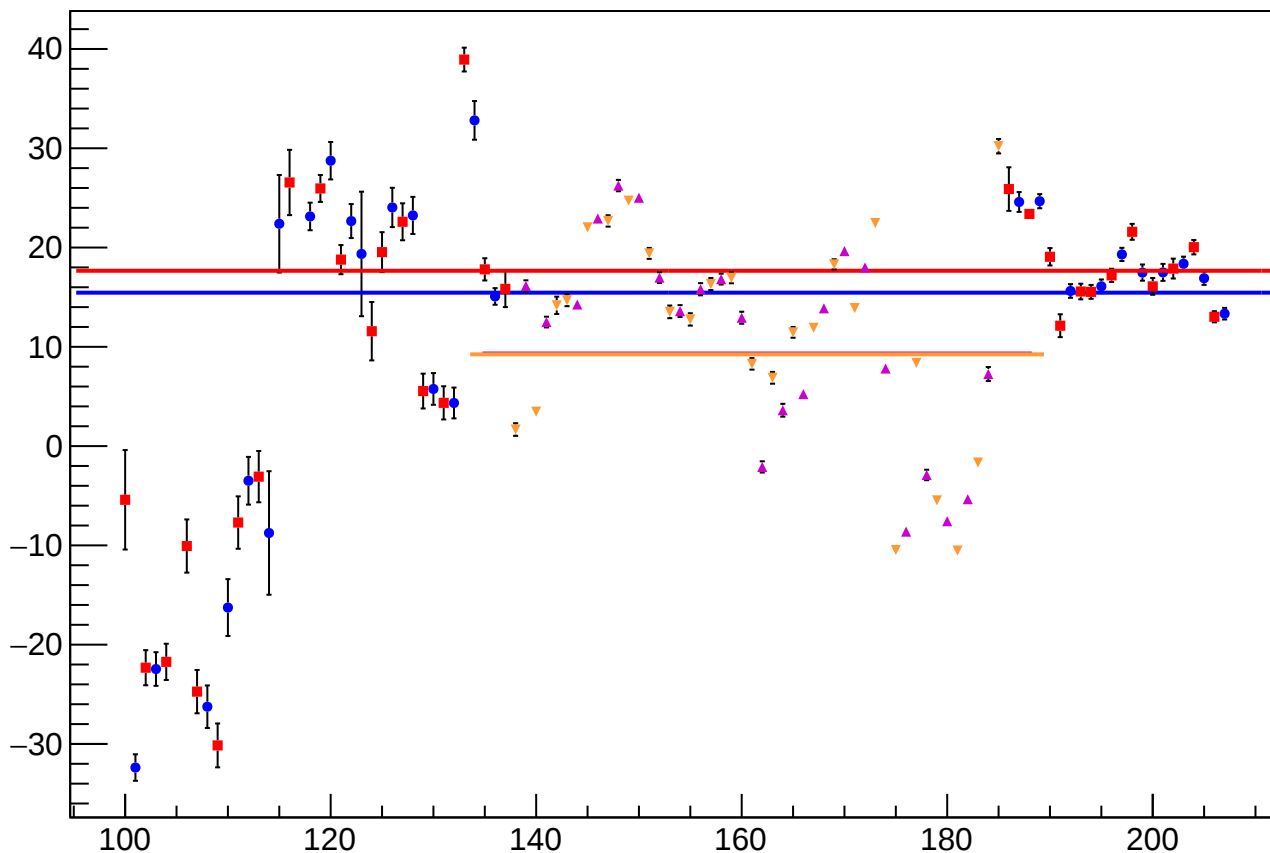
Right: -7.854 ± 0.121 χ^2/NDF : 49222.3/57

In: 1.439 ± 0.074 χ^2/NDF : 33472.6/49

Out: 1.609 ± 0.071 χ^2/NDF : 40795.2/55

All: 1.527 ± 0.051 χ^2/NDF : 74270.6/105

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.455 ± 0.200 χ^2/NDF : 2999.9/26

Left Out: 9.242 ± 0.101 χ^2/NDF : 13633.2/24

Right Out: 17.661 ± 0.174 χ^2/NDF : 3084.7/30

Left In: 9.328 ± 0.103 χ^2/NDF : 11968.5/22

Left: 9.284 ± 0.072 χ^2/NDF : 25602.0/47

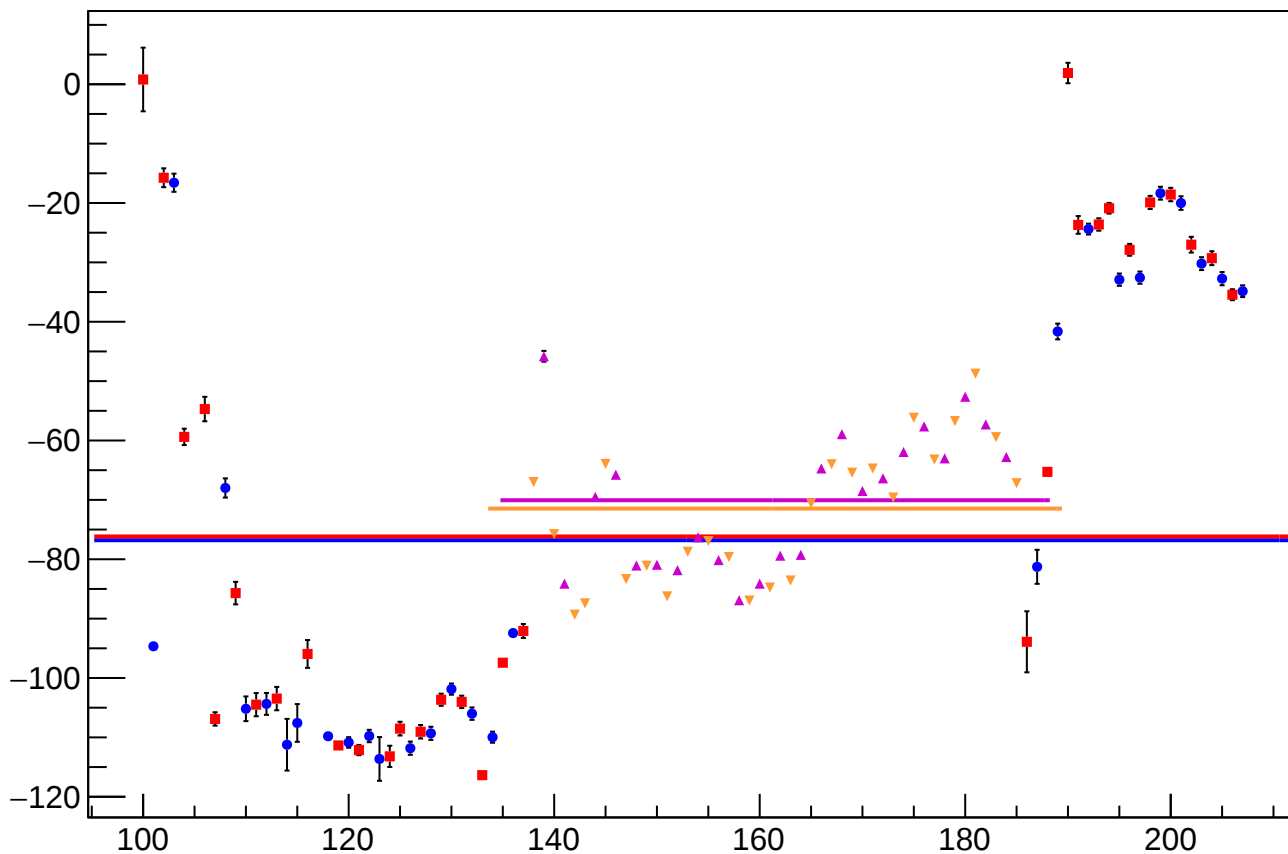
Right: 16.707 ± 0.131 χ^2/NDF : 6154.0/57

In: 10.609 ± 0.091 χ^2/NDF : 15714.3/49

Out: 11.359 ± 0.087 χ^2/NDF : 18468.0/55

All: 11.000 ± 0.063 χ^2/NDF : 34217.5/105

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.794+/-0.205 χ^2/NDF : 31506.3/26

Left Out: -71.465+/-0.089 χ^2/NDF :16409.7/24

Right Out: -76.157+/-0.196 χ^2/NDF : 39697.0/30

Left In: -70.061+/-0.092 χ^2/NDF :13058.5/22

Left: -70.782+/-0.064 χ^2/NDF : 29588.5/47

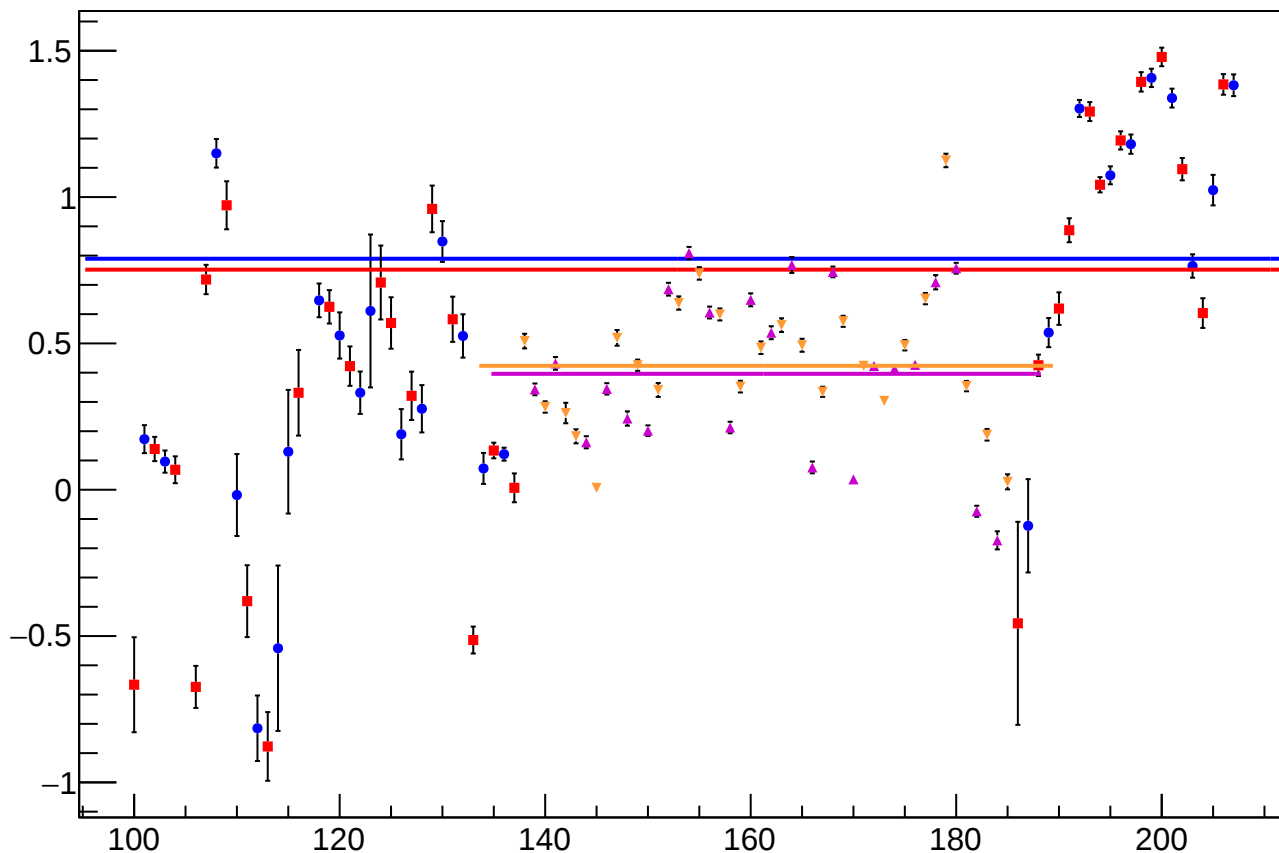
Right: -76.462+/-0.142 χ^2/NDF : 71208.4/57

In: -71.189+/-0.084 χ^2/NDF :45467.2/49

Out: -72.270+/-0.081 χ^2/NDF :56580.3/55

All: -71.745+/-0.058 χ^2/NDF : 102133.4/105

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.789 $\pm$ 0.009 χ^2 /NDF: 3634.0/26

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.752 $\pm$ 0.008 χ^2 /NDF: 4820.9/30

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

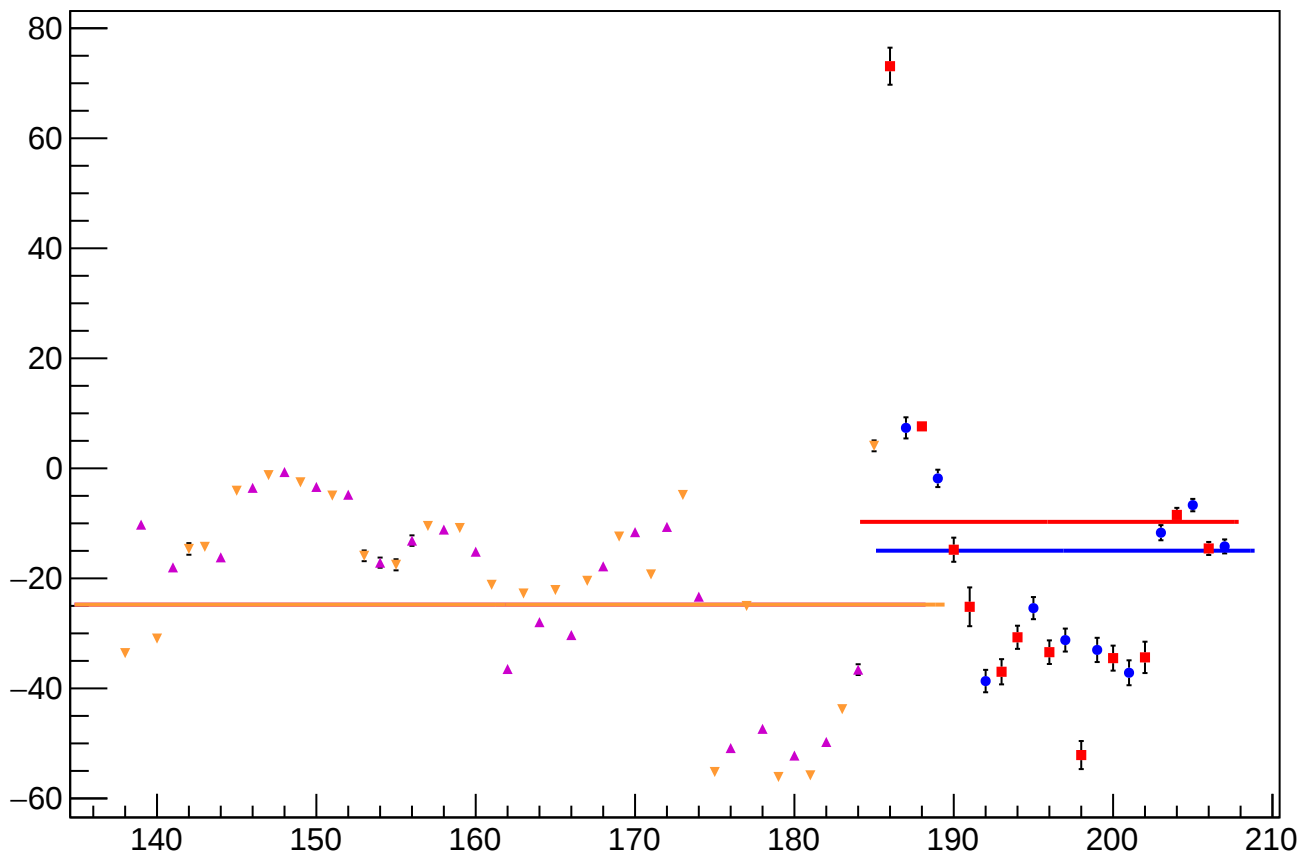
Right: 0.770 $\pm$ 0.006 χ^2 /NDF: 8464.3/57

In: 0.467 $\pm$ 0.004 χ^2 /NDF:9303.1/49

Out: 0.487 $\pm$ 0.004 χ^2 /NDF:8958.7/55

All: 0.478 $\pm$ 0.003 χ^2 /NDF: 18276.2/105

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



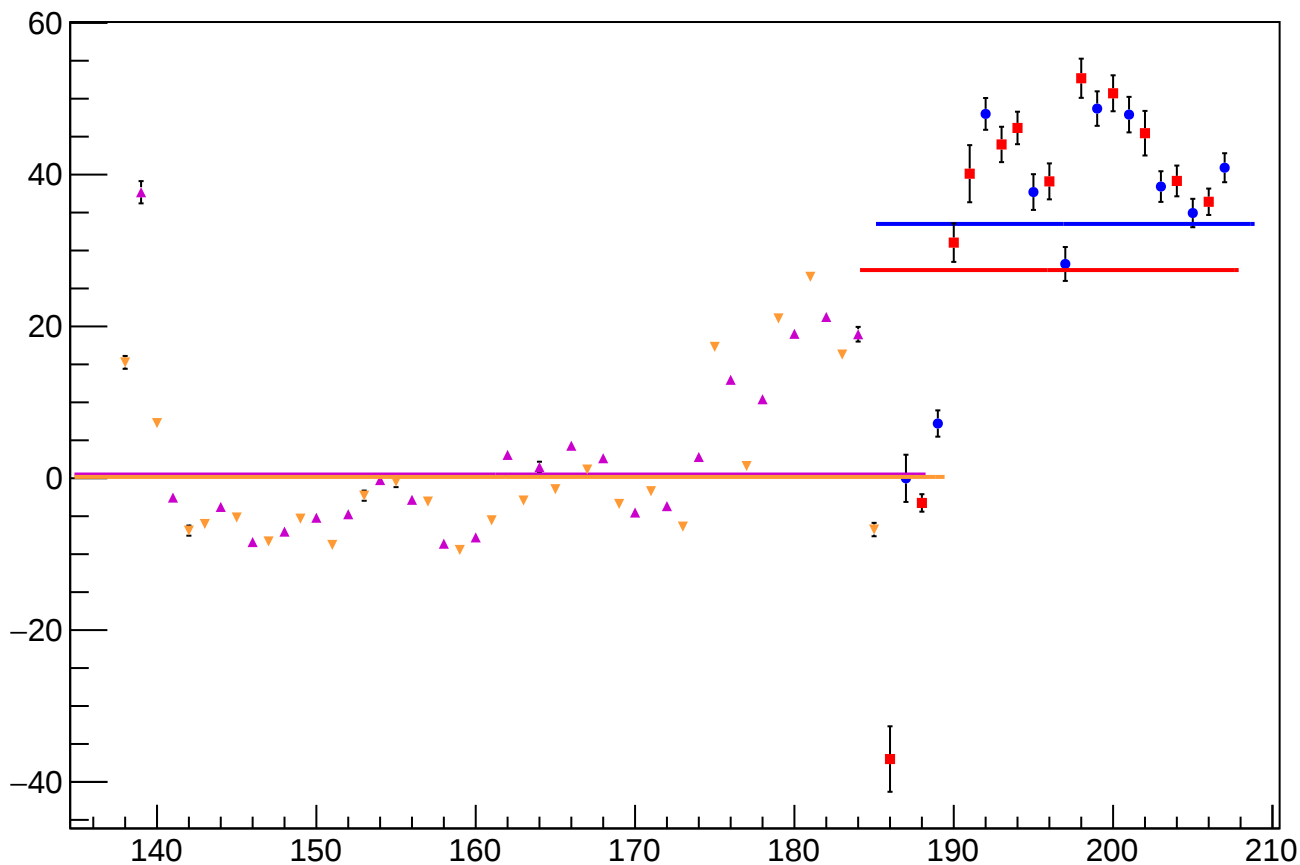
Right In: -14.968 ± 0.518 $\chi^2/\text{NDF}: 650.3/9$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -9.727 ± 0.479 $\chi^2/\text{NDF}: 1948.6/11$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$
 Right: -12.139 ± 0.352 $\chi^2/\text{NDF}: 2654.1/21$

In: -24.083 ± 0.138 $\chi^2/\text{NDF}: 15790.5/32$
 Out: -23.593 ± 0.134 $\chi^2/\text{NDF}: 21177.8/36$

All: -23.831 ± 0.096 $\chi^2/\text{NDF}: 36974.9/69$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



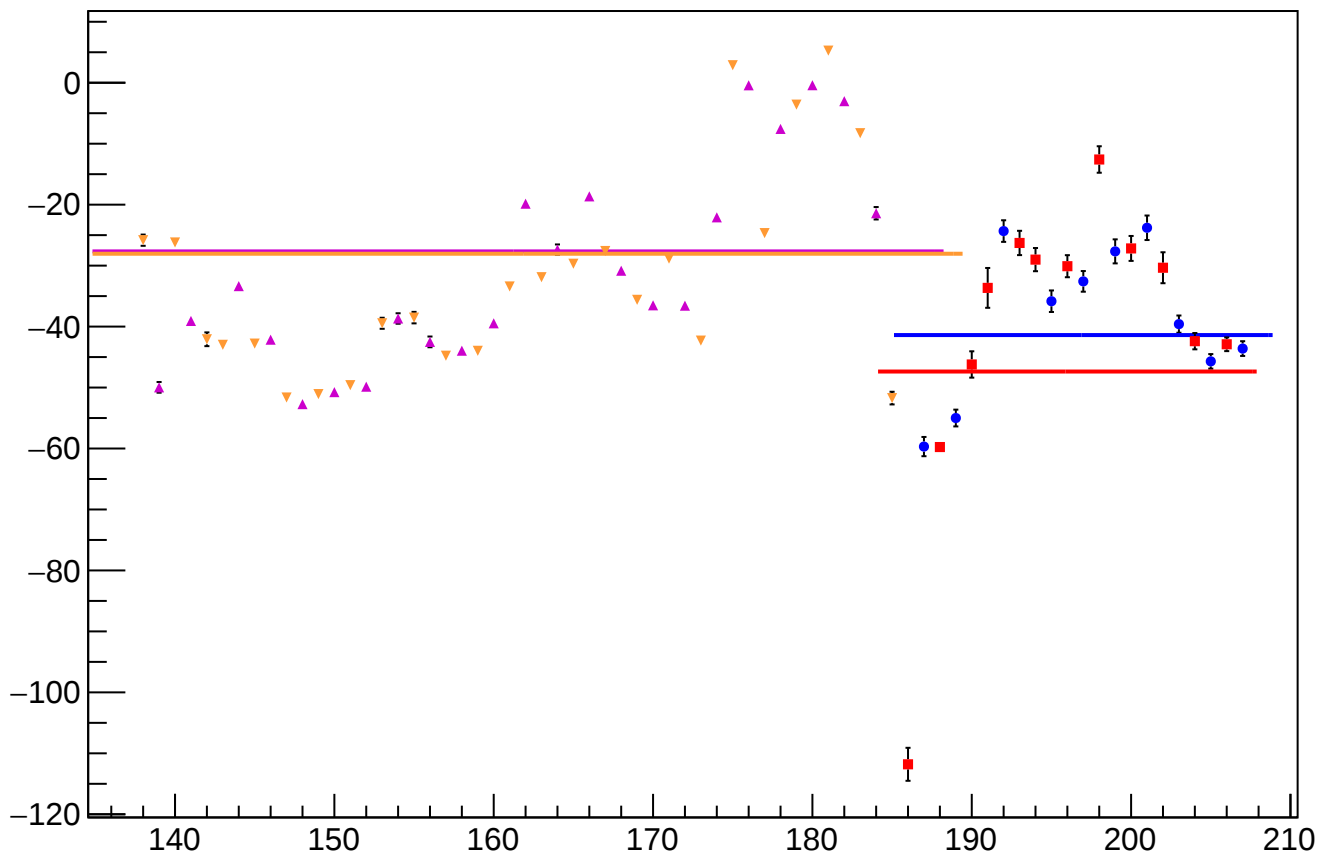
Left: 0.330 +/- 0.078 χ^2/NDF : 14855.0/47
 Right: 30.211 +/- 0.454 χ^2/NDF : 1938.4/21

Right In: 33.503 +/- 0.670 χ^2/NDF : 507.2/9
 Left Out: 0.177 +/- 0.109 χ^2/NDF : 8295.6/24
 Right Out: 27.425 +/- 0.616 χ^2/NDF : 1386.6/11
 Left In: 0.493 +/- 0.112 χ^2/NDF : 6555.4/22

In: 1.392 +/- 0.111 χ^2/NDF : 9423.8/32
 Out: 0.997 +/- 0.107 χ^2/NDF : 11577.8/36

All: 1.188 +/- 0.077 χ^2/NDF : 21008.2/69

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.391 ± 0.482 $\chi^2/\text{NDF}: 504.9/9$

Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$

Right Out: -47.372 ± 0.422 $\chi^2/\text{NDF}: 1675.8/11$

Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$

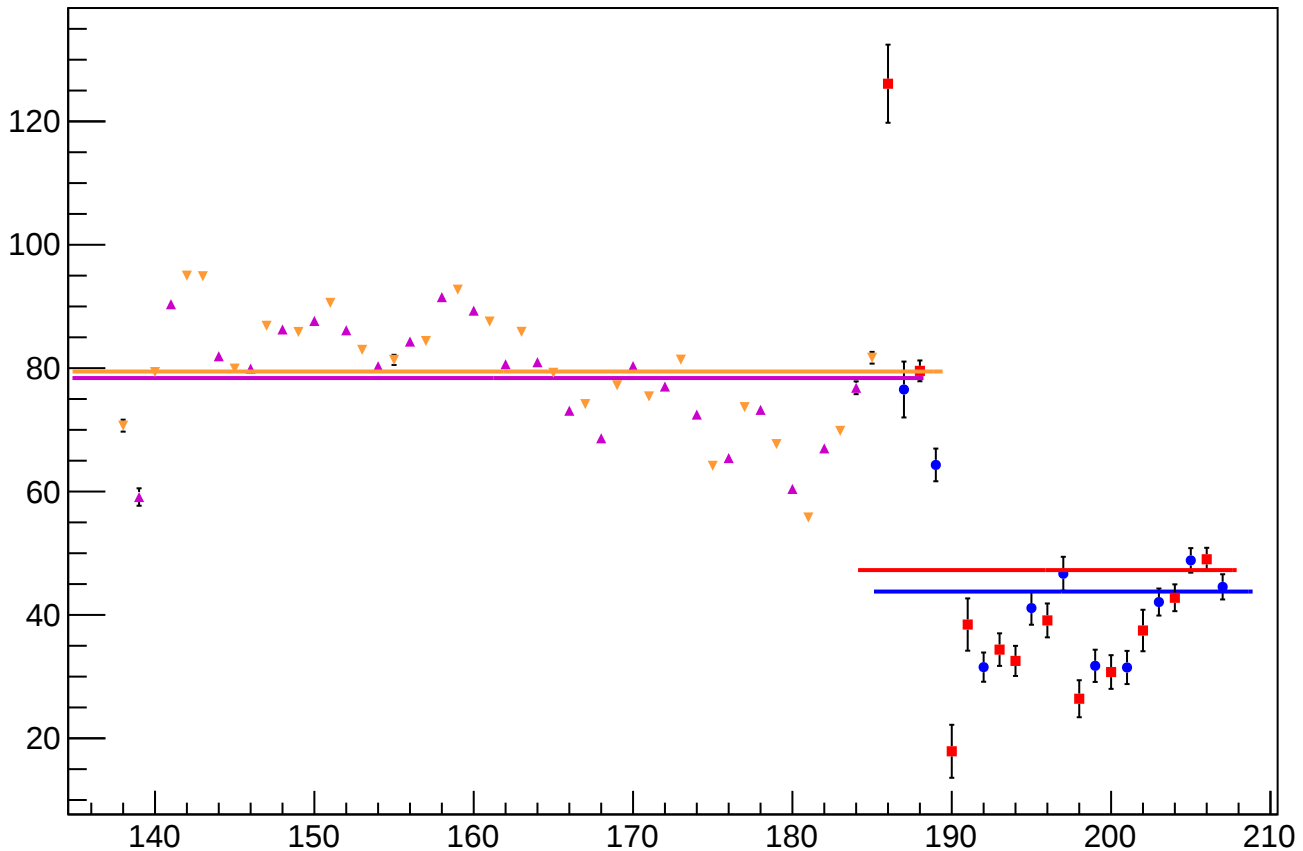
Right: -44.776 ± 0.317 $\chi^2/\text{NDF}: 2267.9/21$

In: -28.770 ± 0.137 $\chi^2/\text{NDF}: 16254.6/32$

Out: -29.964 ± 0.133 $\chi^2/\text{NDF}: 20710.2/36$

All: -29.384 ± 0.095 $\chi^2/\text{NDF}: 37004.1/69$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.788 $\pm$ 0.784 χ^2 /NDF: 190.5/9

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 47.266 $\pm$ 0.752 χ^2 /NDF: 740.7/11

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

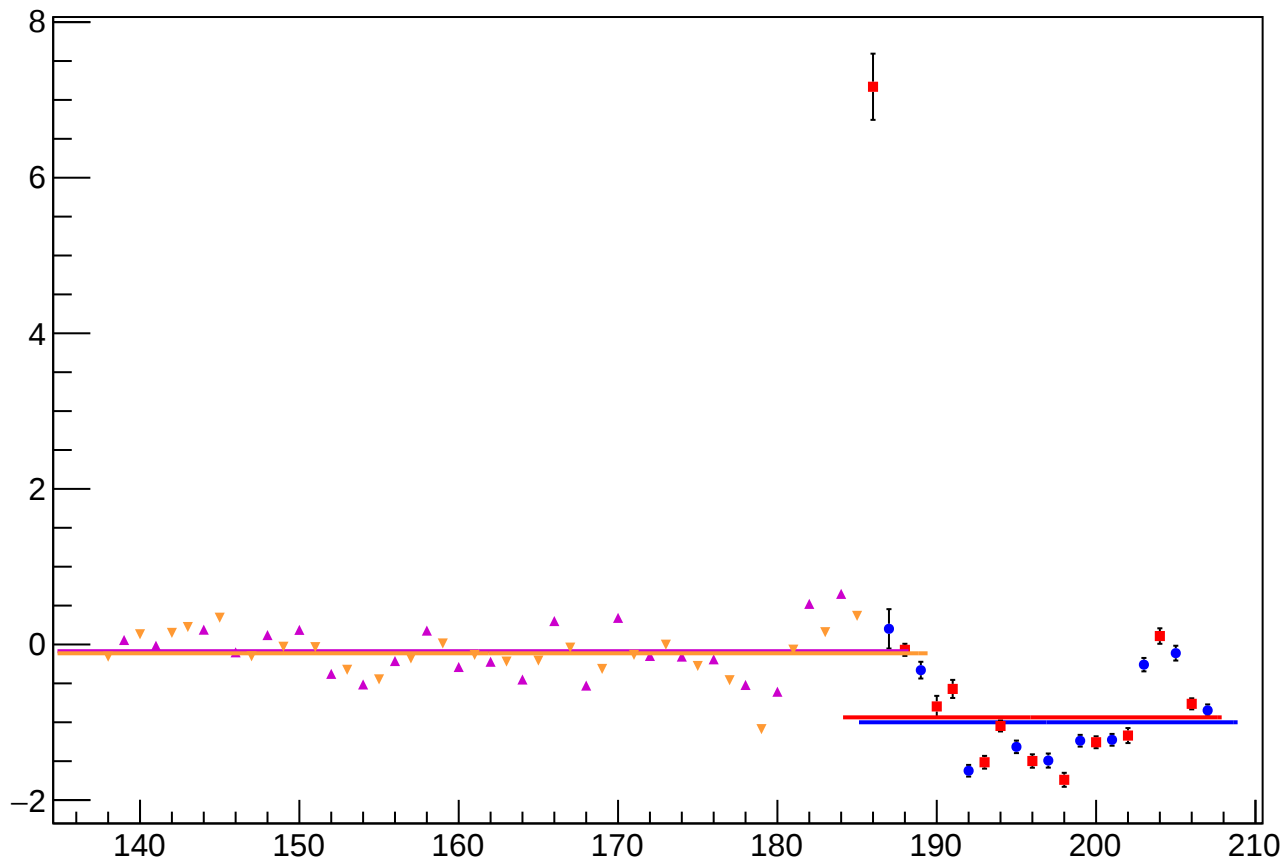
Right: 45.599 $\pm$ 0.543 χ^2 /NDF: 941.5/21

In: 77.516 $\pm$ 0.125 χ^2 /NDF: 6794.9/32

Out: 78.616 $\pm$ 0.122 χ^2 /NDF: 8600.1/36

All: 78.082 $\pm$ 0.087 χ^2 /NDF: 15434.7/69

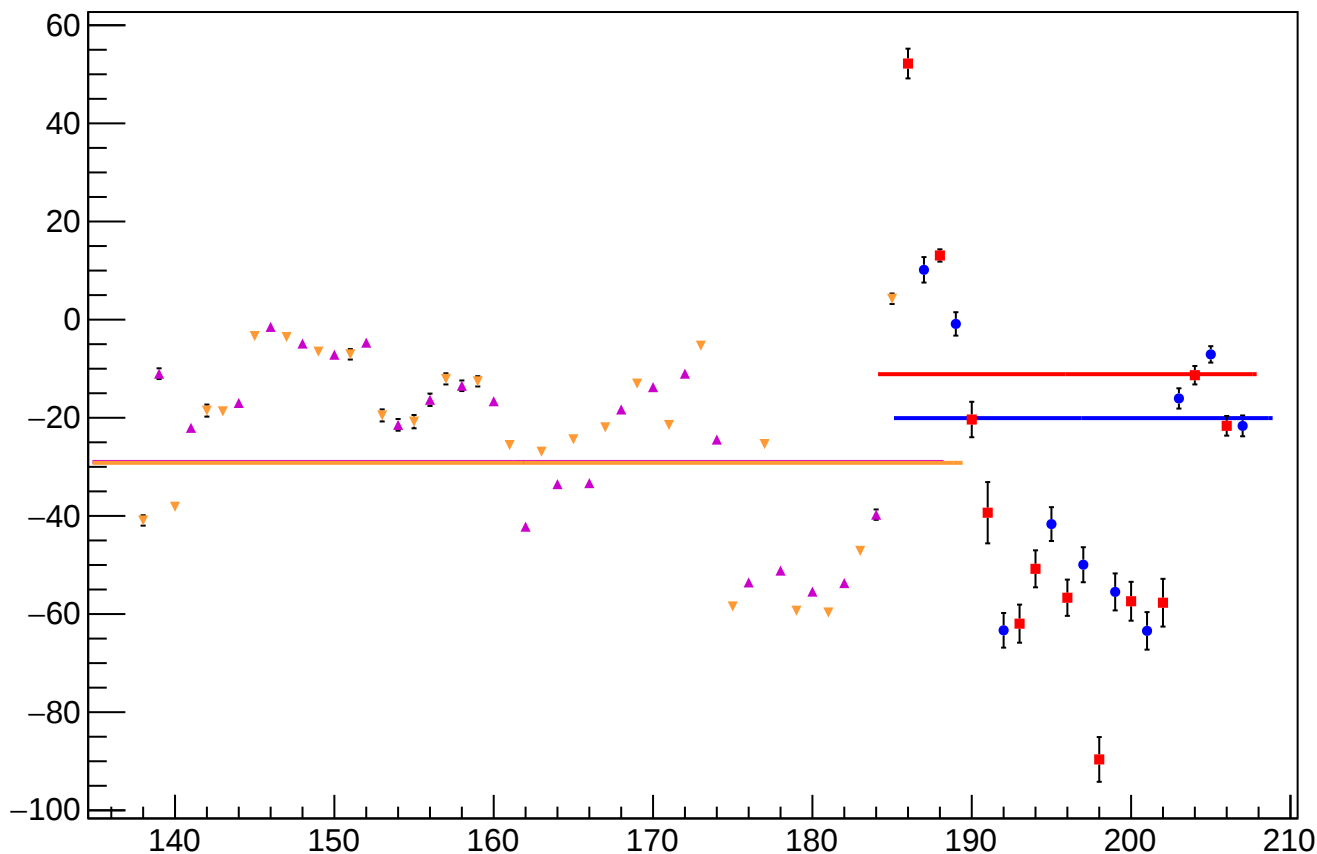
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.000 ± 0.028 $\chi^2/\text{NDF}: 358.7/9$
 Left Out: -0.113 ± 0.006 $\chi^2/\text{NDF}: 2303.1/24$
 Right Out: -0.937 ± 0.026 $\chi^2/\text{NDF}: 811.9/11$
 Left In: -0.086 ± 0.006 $\chi^2/\text{NDF}: 3132.1/22$

Left: -0.100 ± 0.004 $\chi^2/\text{NDF}: 5446.4/47$
 Right: -0.967 ± 0.019 $\chi^2/\text{NDF}: 1173.4/21$
 In: -0.125 ± 0.006 $\chi^2/\text{NDF}: 4546.7/32$
 Out: -0.151 ± 0.006 $\chi^2/\text{NDF}: 4073.9/36$
 All: -0.138 ± 0.004 $\chi^2/\text{NDF}: 8631.3/69$

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.068 ± 0.811 χ^2/NDF : 740.7/9

Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24

Right Out: -11.114 ± 0.757 χ^2/NDF : 1823.6/11

Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47

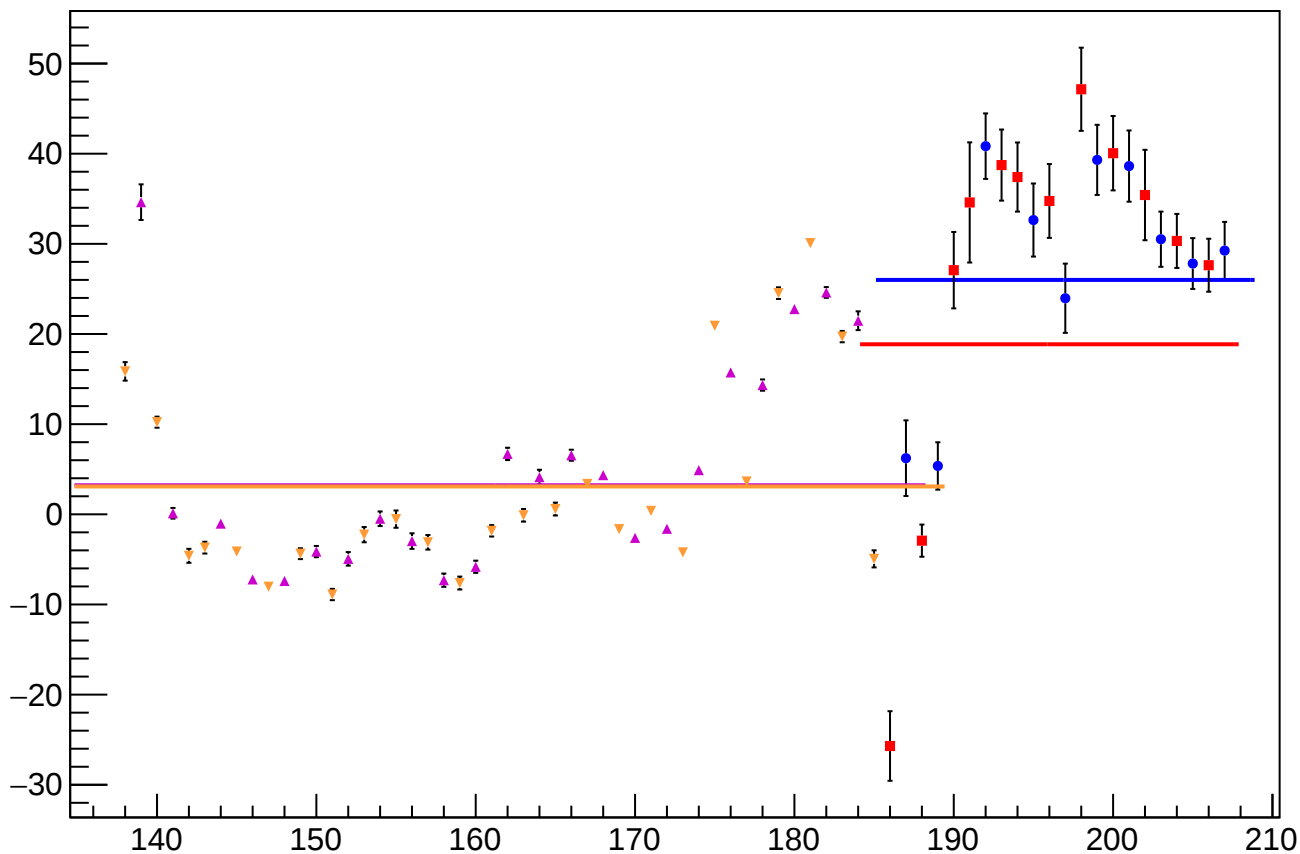
Right: -15.281 ± 0.553 χ^2/NDF : 2629.5/21

In: -28.669 ± 0.157 χ^2/NDF : 14274.2/32

Out: -28.437 ± 0.154 χ^2/NDF : 19282.2/36

All: -28.550 ± 0.110 χ^2/NDF : 33557.5/69

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.999+/-1.074 χ^2/NDF : 129.1/9

Left Out: 3.091+/-0.124 χ^2/NDF : 8084.1/24

Right Out: 18.861+/-0.988 χ^2/NDF : 453.8/11

Left In: 3.221+/-0.127 χ^2/NDF : 6237.6/22

Left: 3.155+/-0.089 χ^2/NDF : 14322.2/47

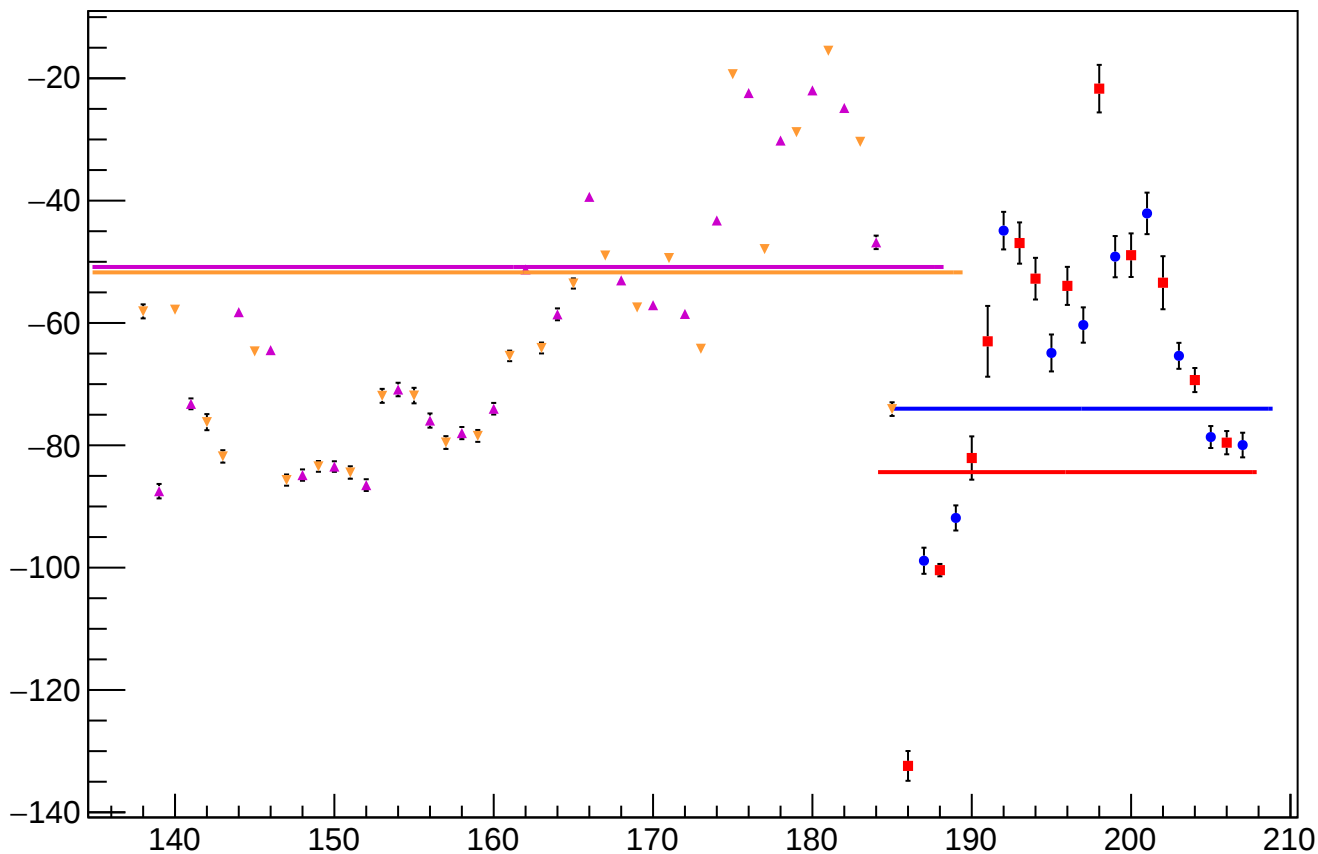
Right: 22.135+/-0.727 χ^2/NDF : 606.9/21

In: 3.535+/-0.126 χ^2/NDF : 6810.7/32

Out: 3.337+/-0.123 χ^2/NDF : 8788.5/36

All: 3.434+/-0.088 χ^2/NDF : 15600.5/69

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -74.014 ± 0.757 $\chi^2/\text{NDF}: 507.5/9$

Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$

Right Out: -84.384 ± 0.664 $\chi^2/\text{NDF}: 1434.9/11$

Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$

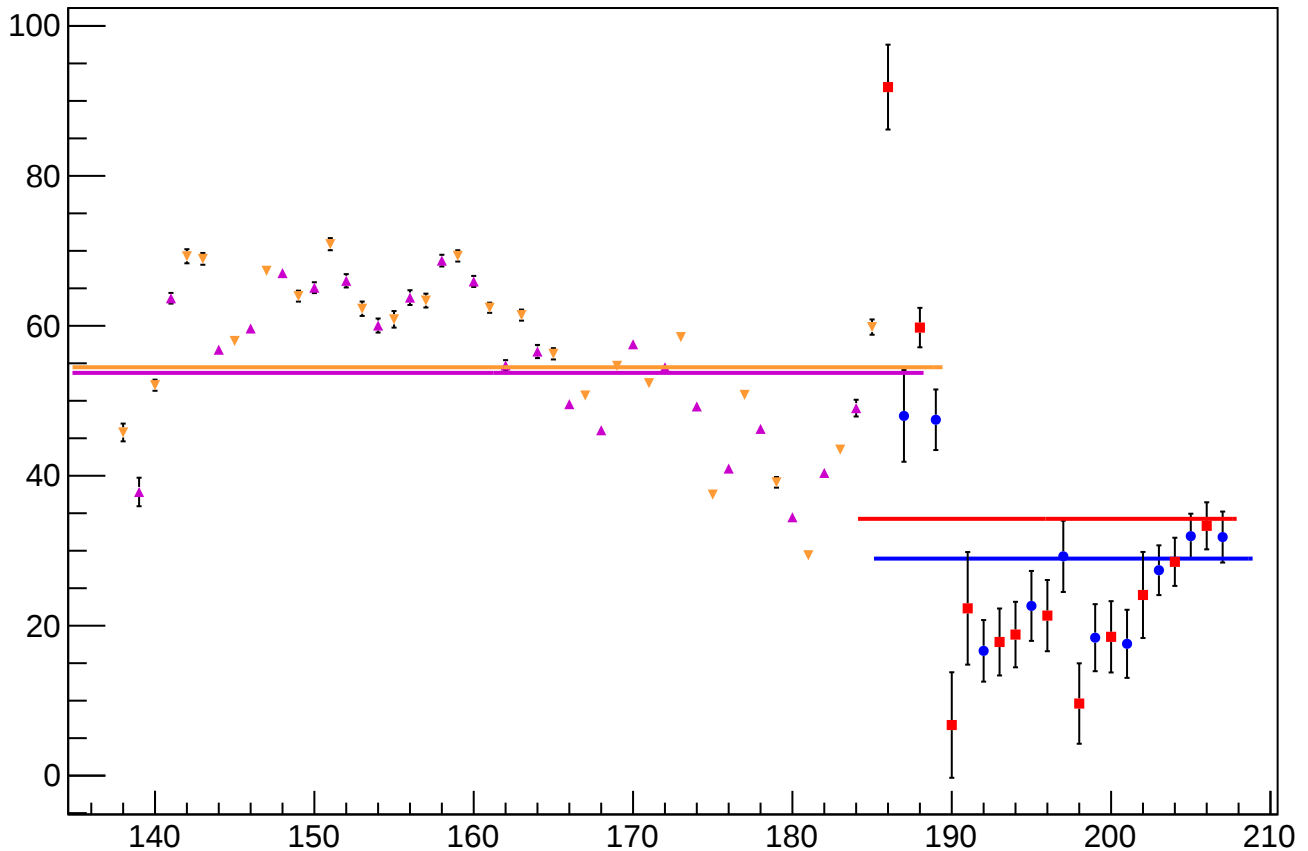
Right: -79.873 ± 0.499 $\chi^2/\text{NDF}: 2048.5/21$

In: -51.837 ± 0.157 $\chi^2/\text{NDF}: 18676.5/32$

Out: -53.476 ± 0.154 $\chi^2/\text{NDF}: 23260.9/36$

All: -52.672 ± 0.110 $\chi^2/\text{NDF}: 41993.2/69$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.951 $\pm$ 1.265 χ^2 /NDF: 55.3/9

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.255 $\pm$ 1.223 χ^2 /NDF: 287.2/11

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF: 4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

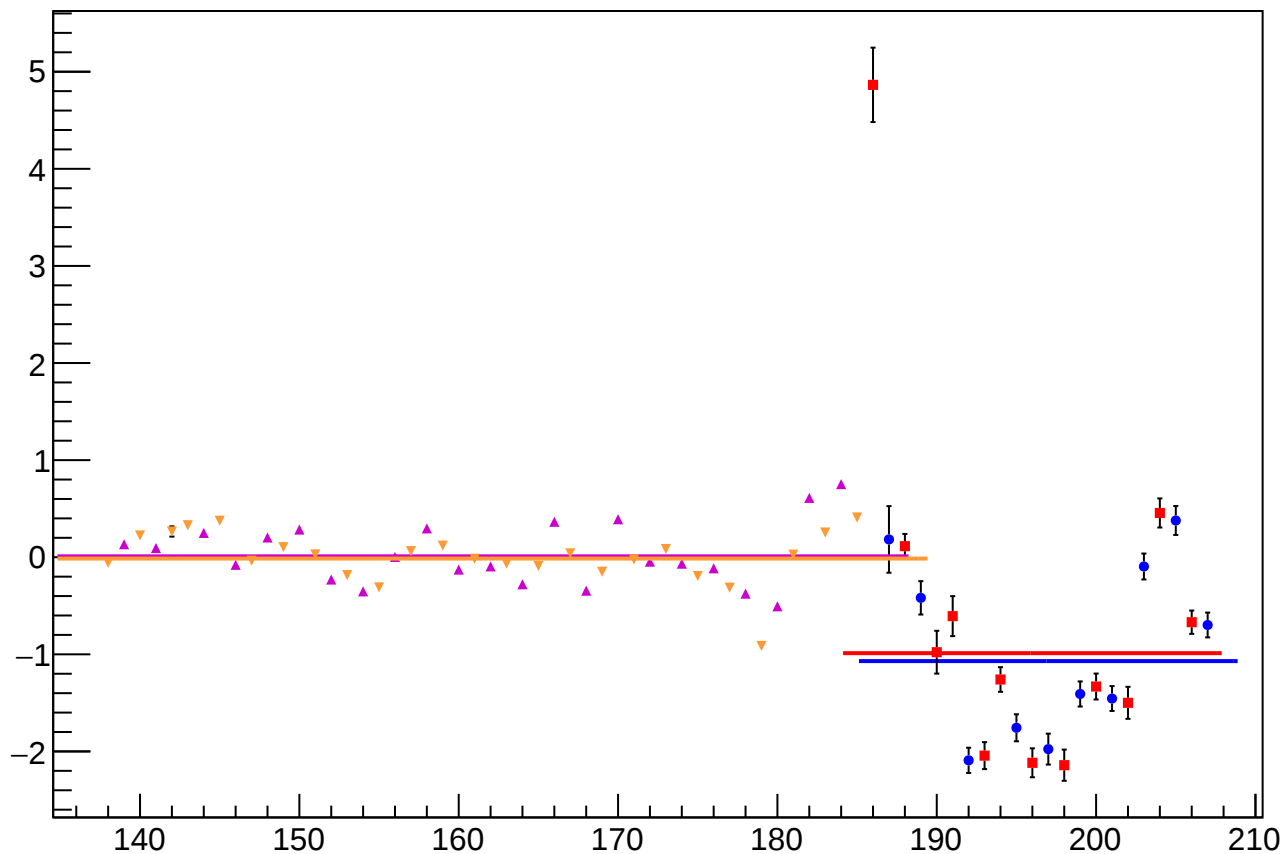
Right: 31.691 $\pm$ 0.879 χ^2 /NDF: 351.5/21

In: 53.411 $\pm$ 0.142 χ^2 /NDF: 5019.6/32

Out: 54.214 $\pm$ 0.139 χ^2 /NDF: 6823.7/36

All: 53.820 $\pm$ 0.100 χ^2 /NDF: 11859.6/69

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.070 ± 0.046 χ^2/NDF : 318.7/9

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.988 ± 0.044 χ^2/NDF : 601.2/11

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

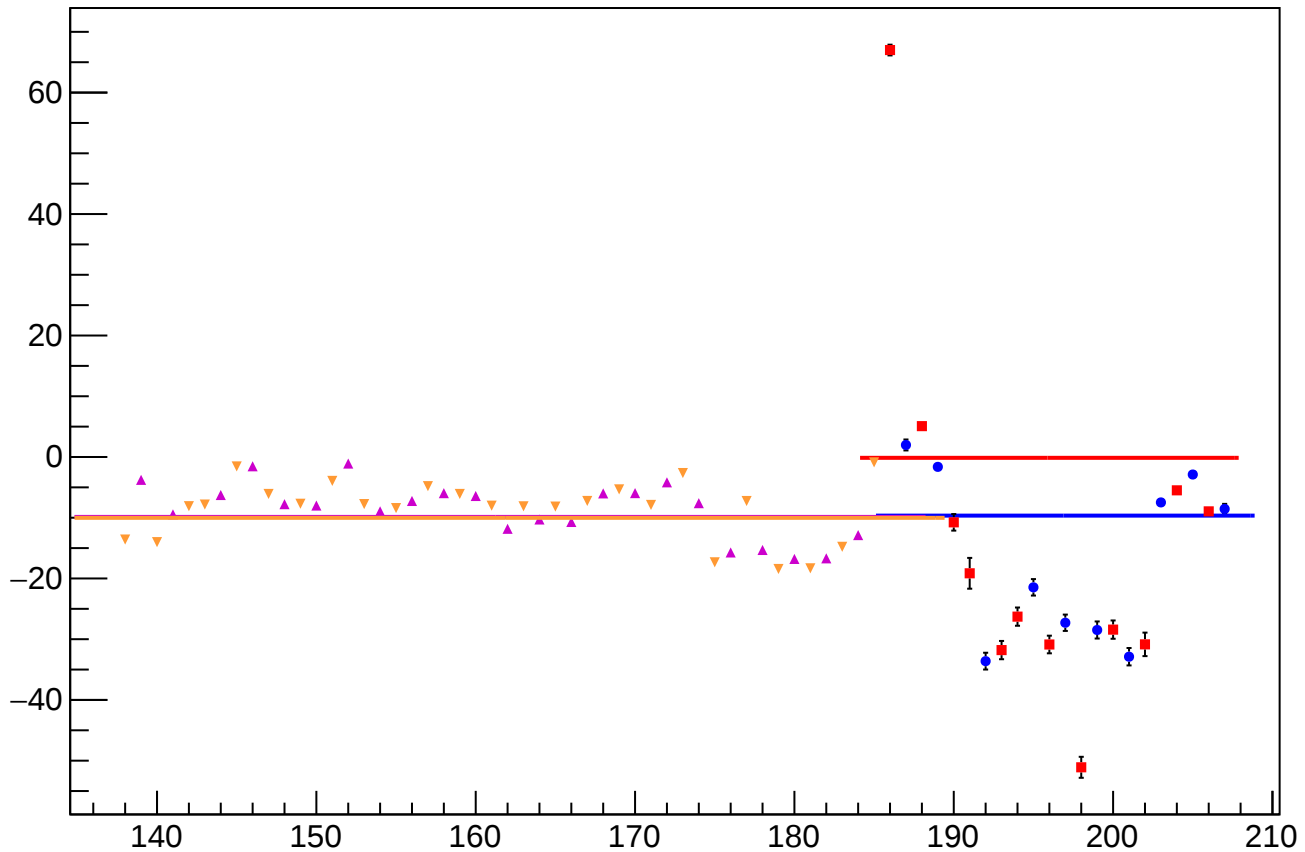
Right: -1.027 ± 0.032 χ^2/NDF : 921.5/21

In: -0.013 ± 0.006 χ^2/NDF : 3082.3/32

Out: -0.034 ± 0.006 χ^2/NDF : 2738.2/36

All: -0.024 ± 0.005 χ^2/NDF : 5826.1/69

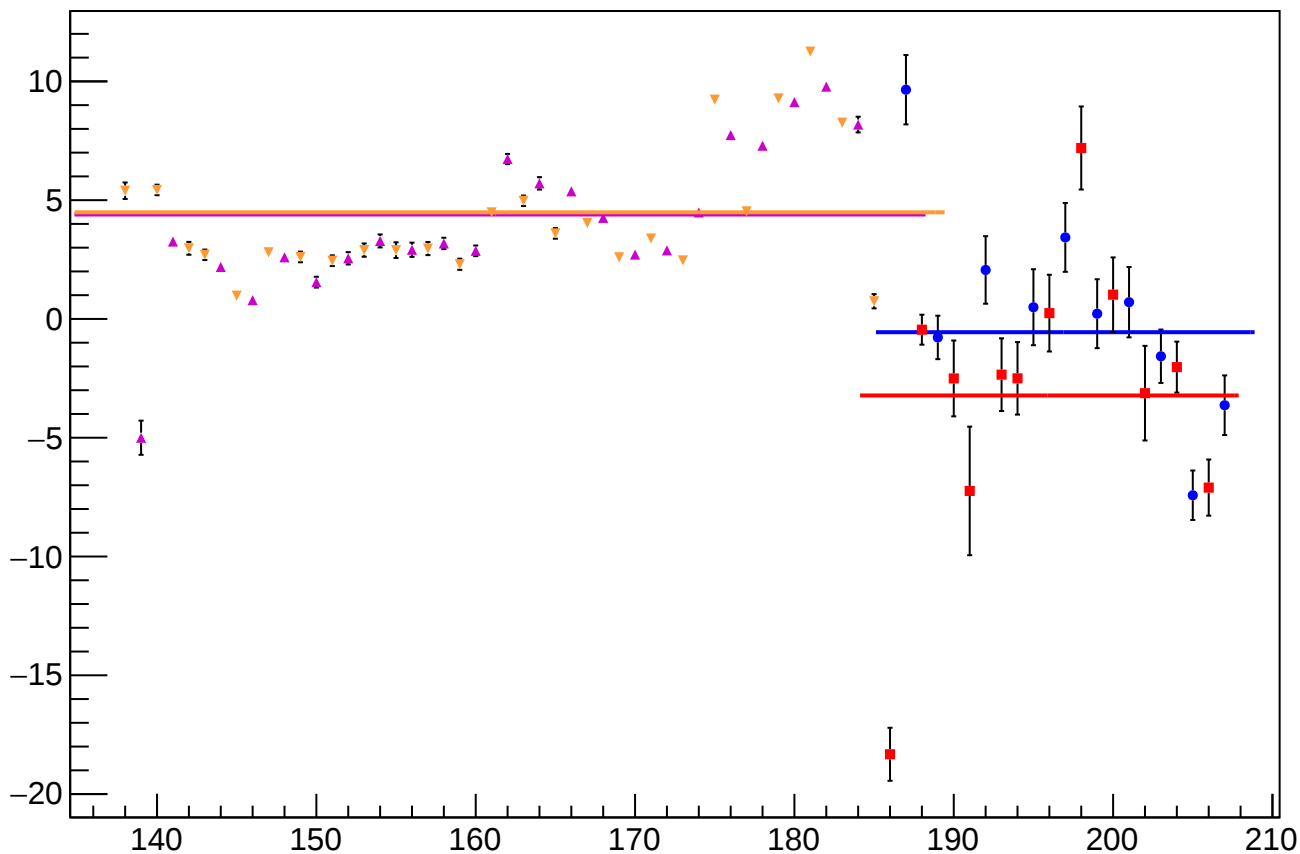
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.653 ± 0.299 $\chi^2/\text{NDF}: 1382.8/9$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.137 ± 0.276 $\chi^2/\text{NDF}: 8862.5/11$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -4.505 ± 0.203 $\chi^2/\text{NDF}: 10792.7/21$
 In: -9.859 ± 0.051 $\chi^2/\text{NDF}: 10728.7/32$
 Out: -9.694 ± 0.050 $\chi^2/\text{NDF}: 22658.8/36$
 All: -9.775 ± 0.036 $\chi^2/\text{NDF}: 33392.9/69$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.558 ± 0.398 χ^2/NDF : 111.6/9

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -3.222 ± 0.361 χ^2/NDF : 264.8/11

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

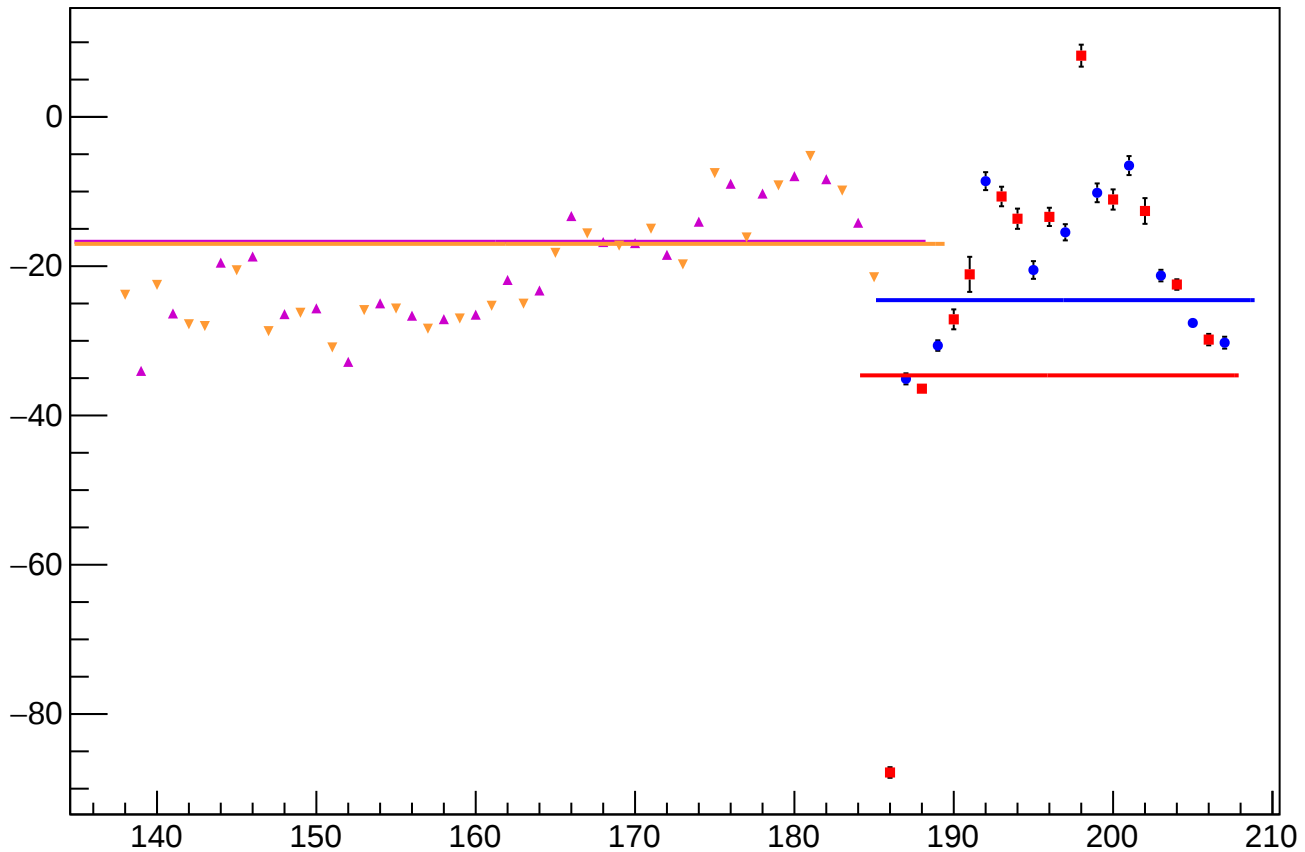
Right: -2.018 ± 0.268 χ^2/NDF : 401.0/21

In: 4.343 ± 0.041 χ^2/NDF : 4495.2/32

Out: 4.392 ± 0.040 χ^2/NDF : 5546.6/36

All: 4.368 ± 0.029 χ^2/NDF : 10042.5/69

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

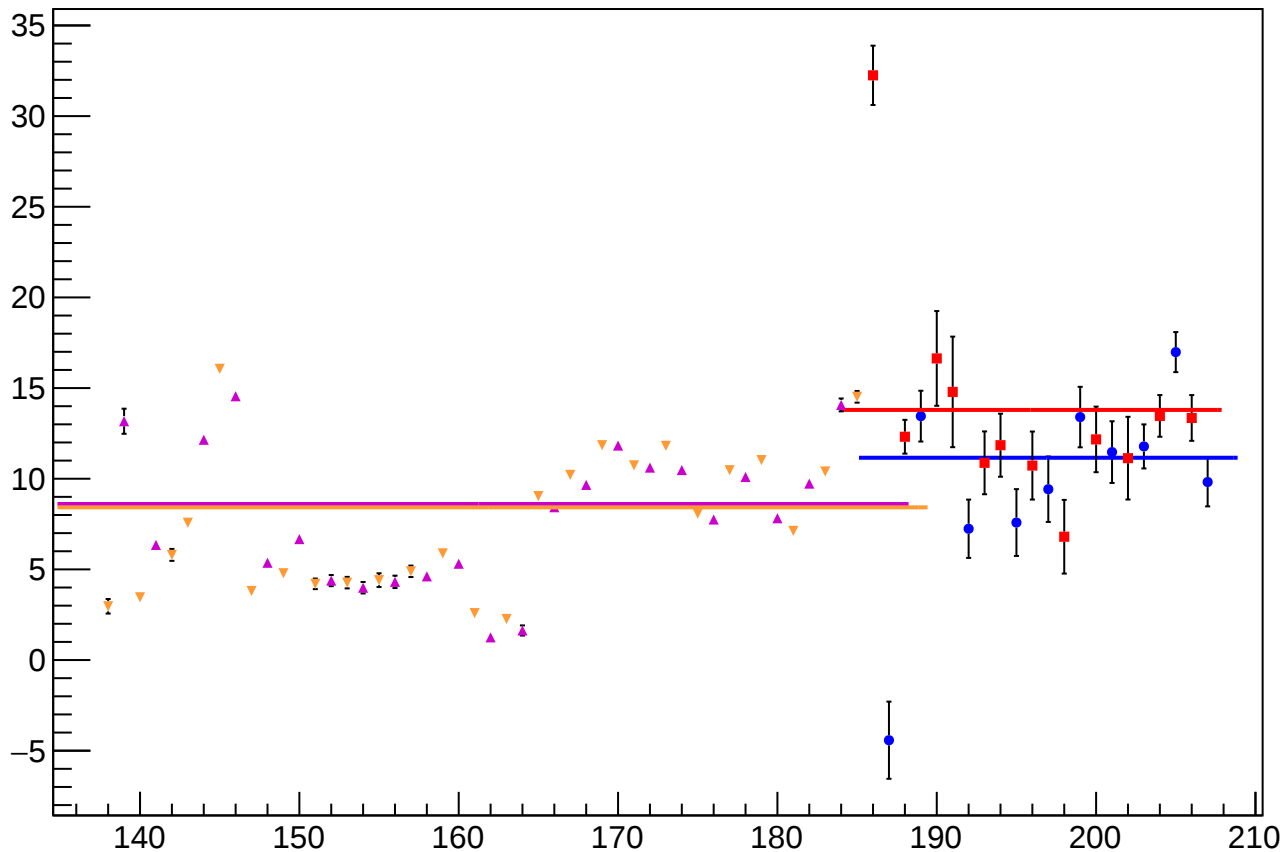
Right: -30.336 ± 0.182 $\chi^2/\text{NDF}: 9923.0/21$

In: -16.990 ± 0.051 $\chi^2/\text{NDF}: 20493.6/32$

Out: -17.770 ± 0.050 $\chi^2/\text{NDF}: 35458.2/36$

All: -17.386 ± 0.036 $\chi^2/\text{NDF}: 56072.1/69$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.157 $\pm$ 0.473 χ^2 /NDF: 97.8/9

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 13.796 $\pm$ 0.454 χ^2 /NDF: 152.2/11

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

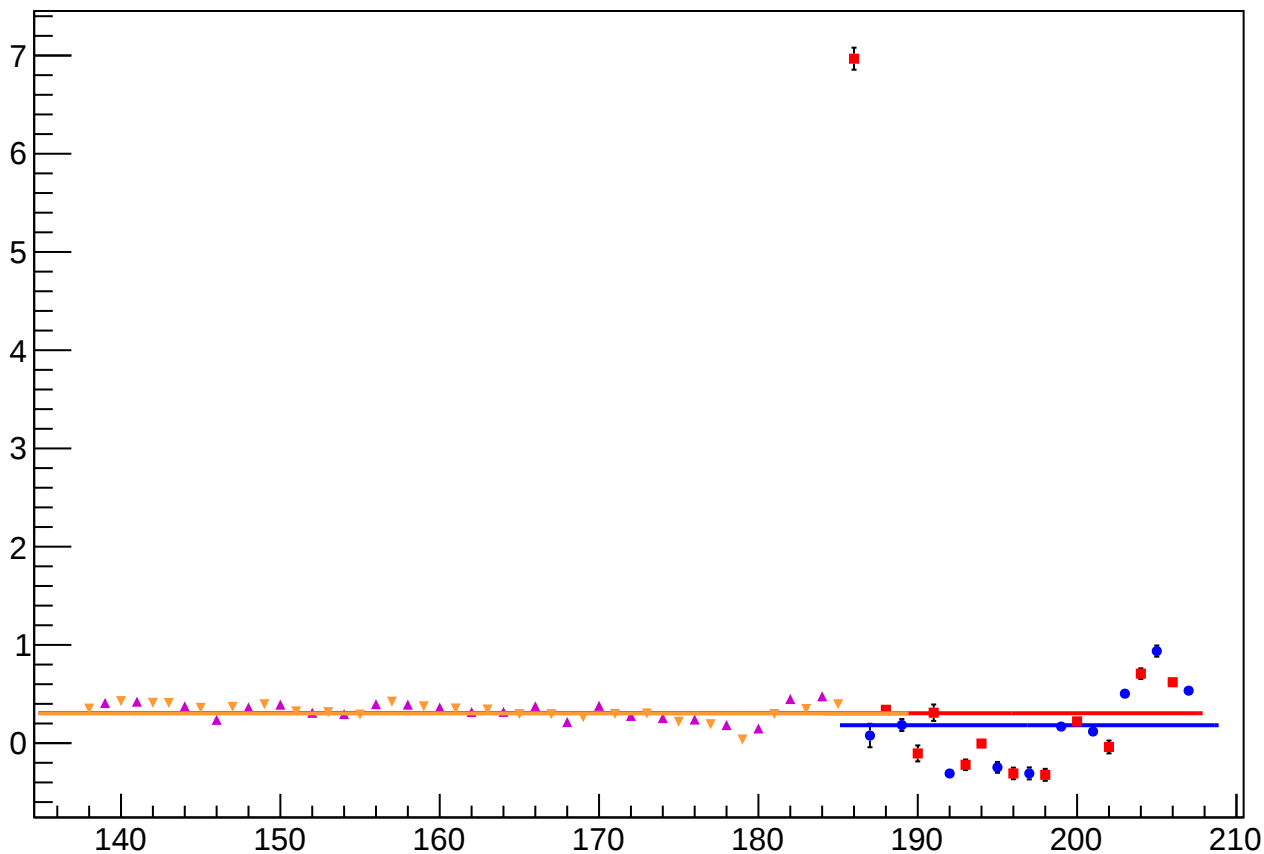
Right: 12.530 $\pm$ 0.327 χ^2 /NDF: 266.2/21

In: 8.631 $\pm$ 0.046 χ^2 /NDF: 5630.9/32

Out: 8.476 $\pm$ 0.045 χ^2 /NDF: 6761.0/36

All: 8.552 $\pm$ 0.032 χ^2 /NDF: 12397.7/69

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.182 ± 0.017 $\chi^2/\text{NDF}: 488.9/9$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.304 ± 0.017 $\chi^2/\text{NDF}: 4028.4/11$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

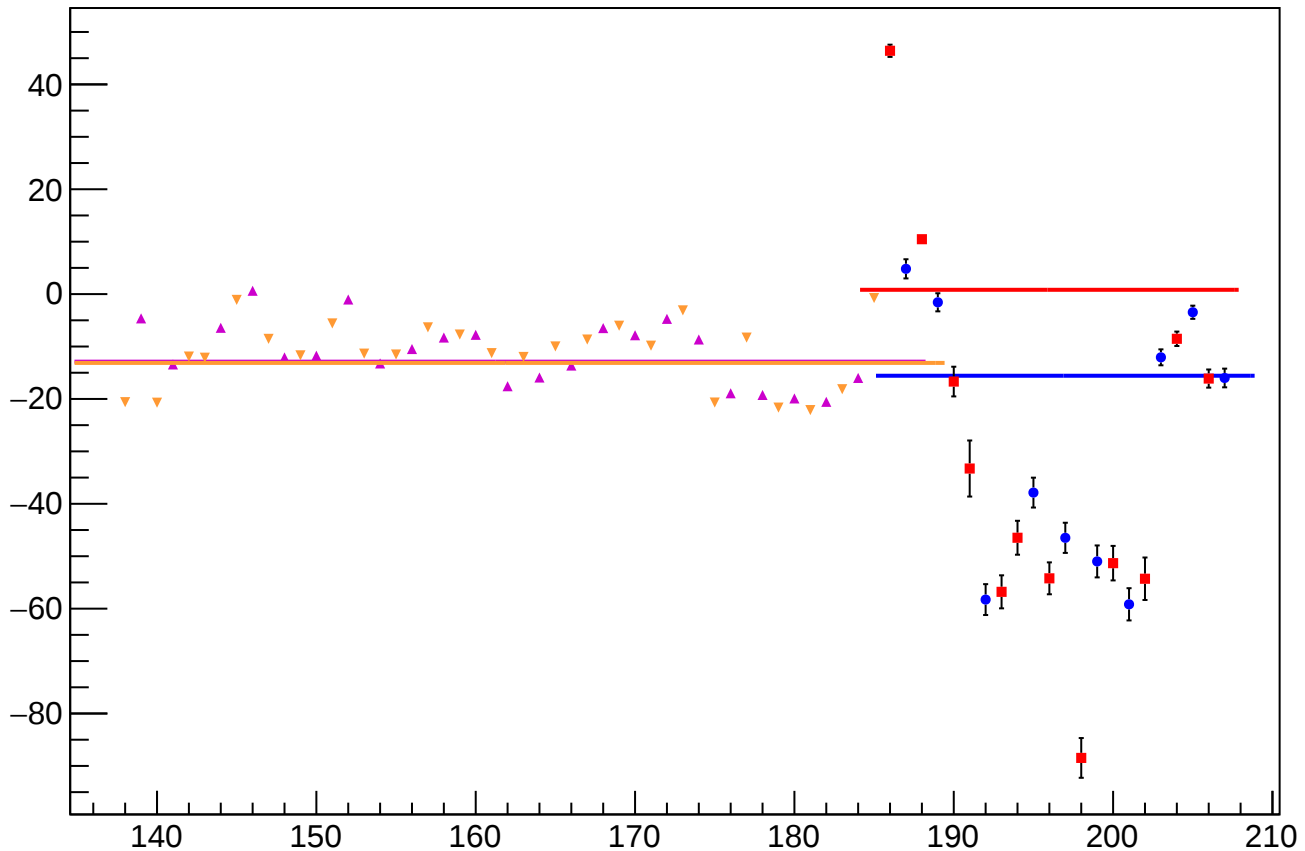
Right: 0.246 ± 0.012 $\chi^2/\text{NDF}: 4542.9/21$

In: 0.305 ± 0.002 $\chi^2/\text{NDF}: 2239.2/32$

Out: 0.303 ± 0.002 $\chi^2/\text{NDF}: 5619.3/36$

All: 0.304 ± 0.001 $\chi^2/\text{NDF}: 7859.5/69$

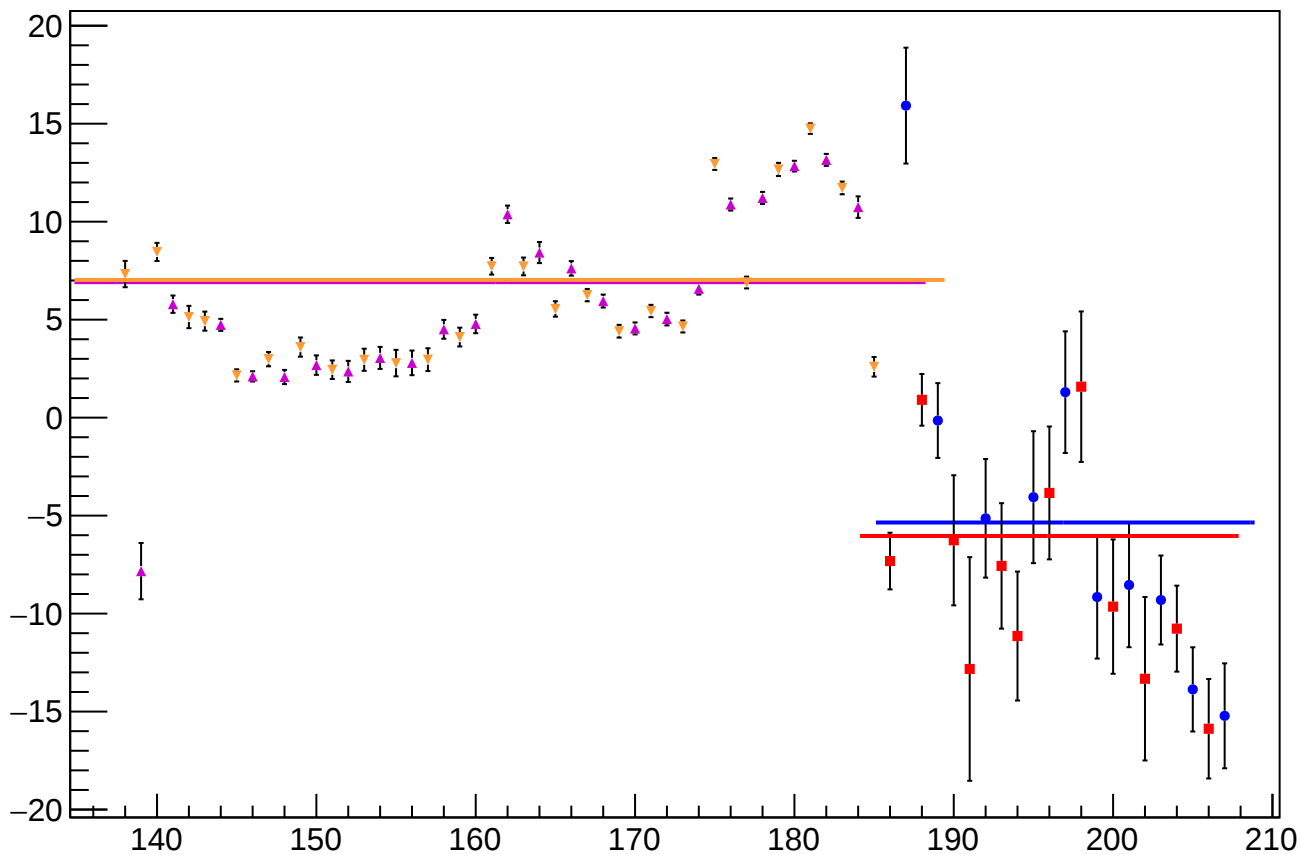
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.573 ± 0.622 $\chi^2/\text{NDF}: 1011.6/9$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 0.820 ± 0.540 $\chi^2/\text{NDF}: 3720.9/11$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$
 Right: -6.221 ± 0.408 $\chi^2/\text{NDF}: 5129.0/21$
 In: -12.947 ± 0.094 $\chi^2/\text{NDF}: 5806.0/32$
 Out: -12.717 ± 0.092 $\chi^2/\text{NDF}: 10347.0/36$
 All: -12.830 ± 0.066 $\chi^2/\text{NDF}: 16156.1/69$

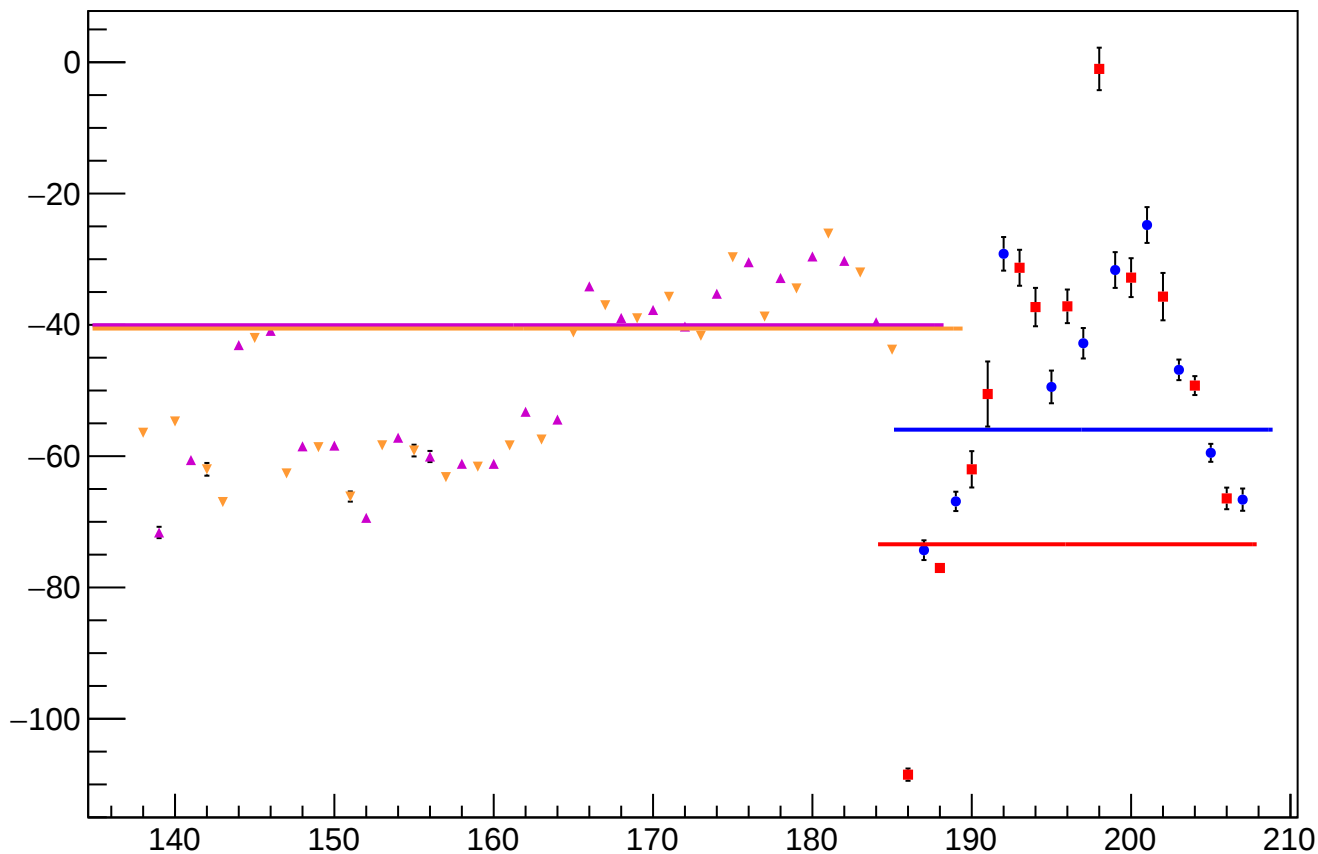
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.352 ± 0.833 χ^2/NDF : 98.7/9
 Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24
 Right Out: -6.038 ± 0.703 χ^2/NDF : 60.7/11
 Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47
 Right: -5.753 ± 0.537 χ^2/NDF : 159.9/21
 In: 6.808 ± 0.077 χ^2/NDF : 2741.9/32
 Out: 6.872 ± 0.077 χ^2/NDF : 3067.6/36
 All: 6.840 ± 0.054 χ^2/NDF : 5809.8/69

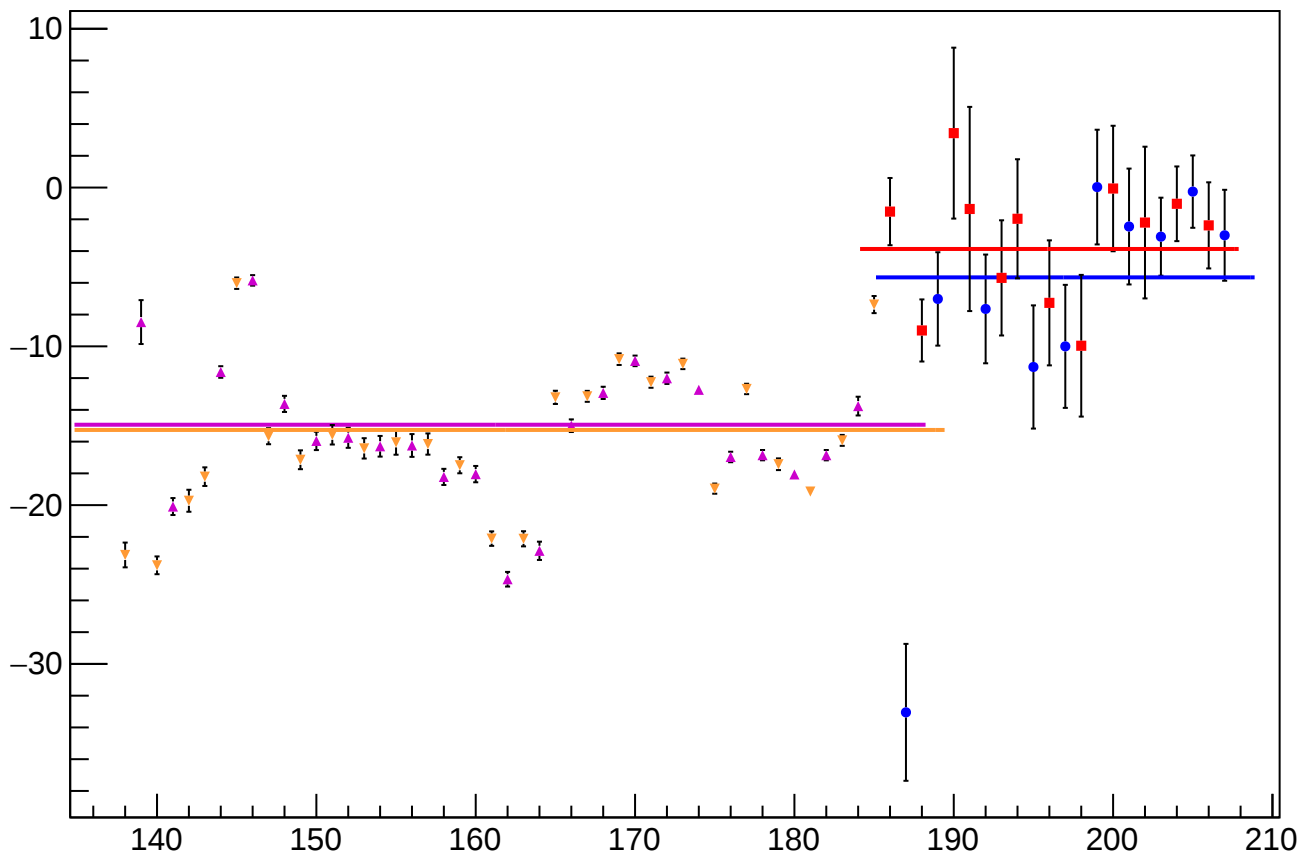
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -55.962±/0.581 χ^2/NDF : 643.0/9
 Left Out: -40.563±/0.095 χ^2/NDF :15637.6/24
 Right Out: -73.421±/0.465 χ^2/NDF : 3155.6/11
 Left In: -40.053±/0.096 χ^2/NDF :13927.3/22

Left: -40.310±/0.067 χ^2/NDF : 29579.2/47
 Right: -66.604±/0.363 χ^2/NDF : 4349.0/21
 In: -40.473±/0.094 χ^2/NDF :15300.3/32
 Out: -41.872±/0.093 χ^2/NDF :23587.6/36
 All: -41.184±/0.066 χ^2/NDF : 38999.5/69

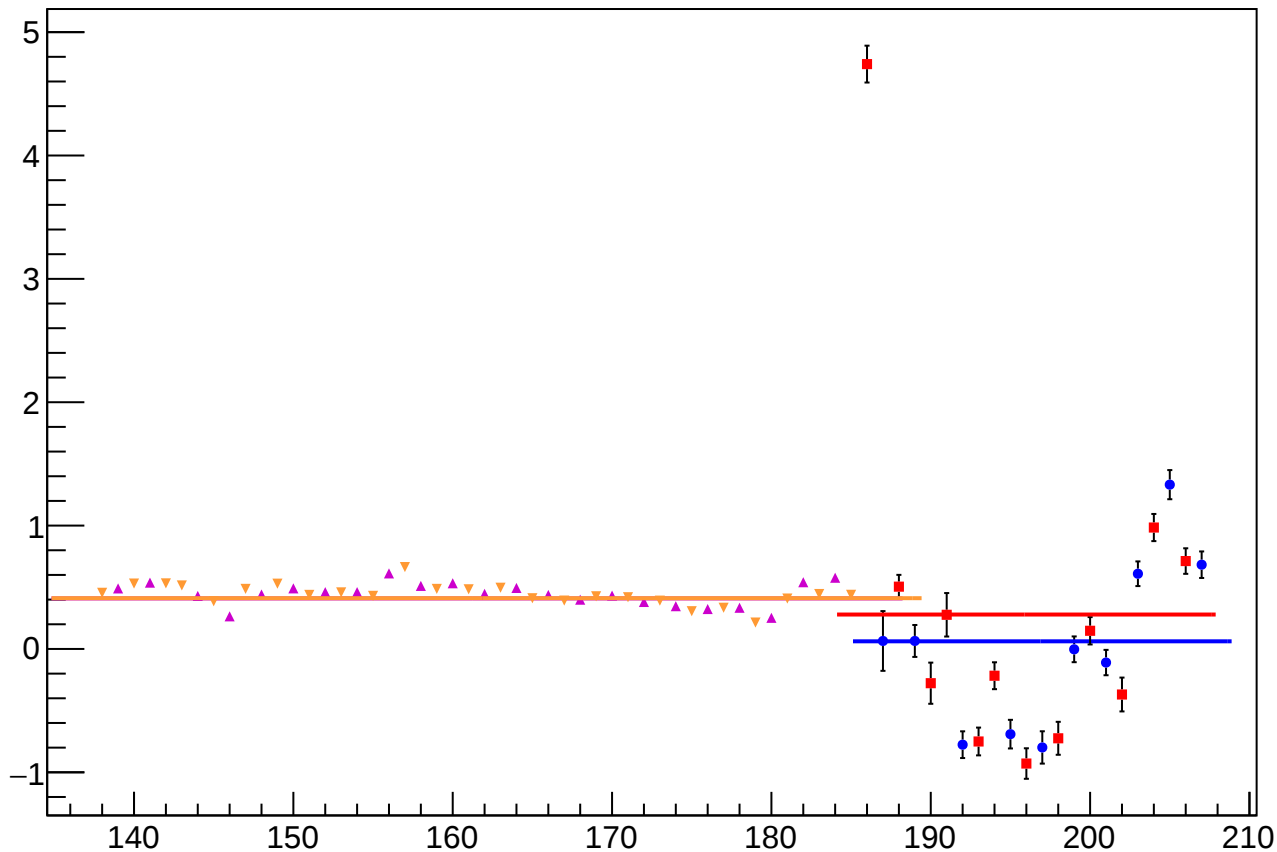
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.656 ± 0.990 $\chi^2/\text{NDF}: 55.1/9$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -3.868 ± 0.902 $\chi^2/\text{NDF}: 16.0/11$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -4.679 ± 0.667 $\chi^2/\text{NDF}: 72.9/21$
 In: -14.865 ± 0.087 $\chi^2/\text{NDF}: 2342.0/32$
 Out: -15.163 ± 0.086 $\chi^2/\text{NDF}: 2769.9/36$
 All: -15.016 ± 0.061 $\chi^2/\text{NDF}: 5117.8/69$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.062 $\pm$ 0.037 χ^2/NDF : 327.1/9

Left Out: 0.411 $\pm$ 0.004 χ^2/NDF : 428.7/24

Right Out: 0.279 $\pm$ 0.035 χ^2/NDF : 1247.3/11

Left In: 0.409 $\pm$ 0.004 χ^2/NDF : 557.8/22

Left: 0.410 $\pm$ 0.003 χ^2/NDF : 986.7/47

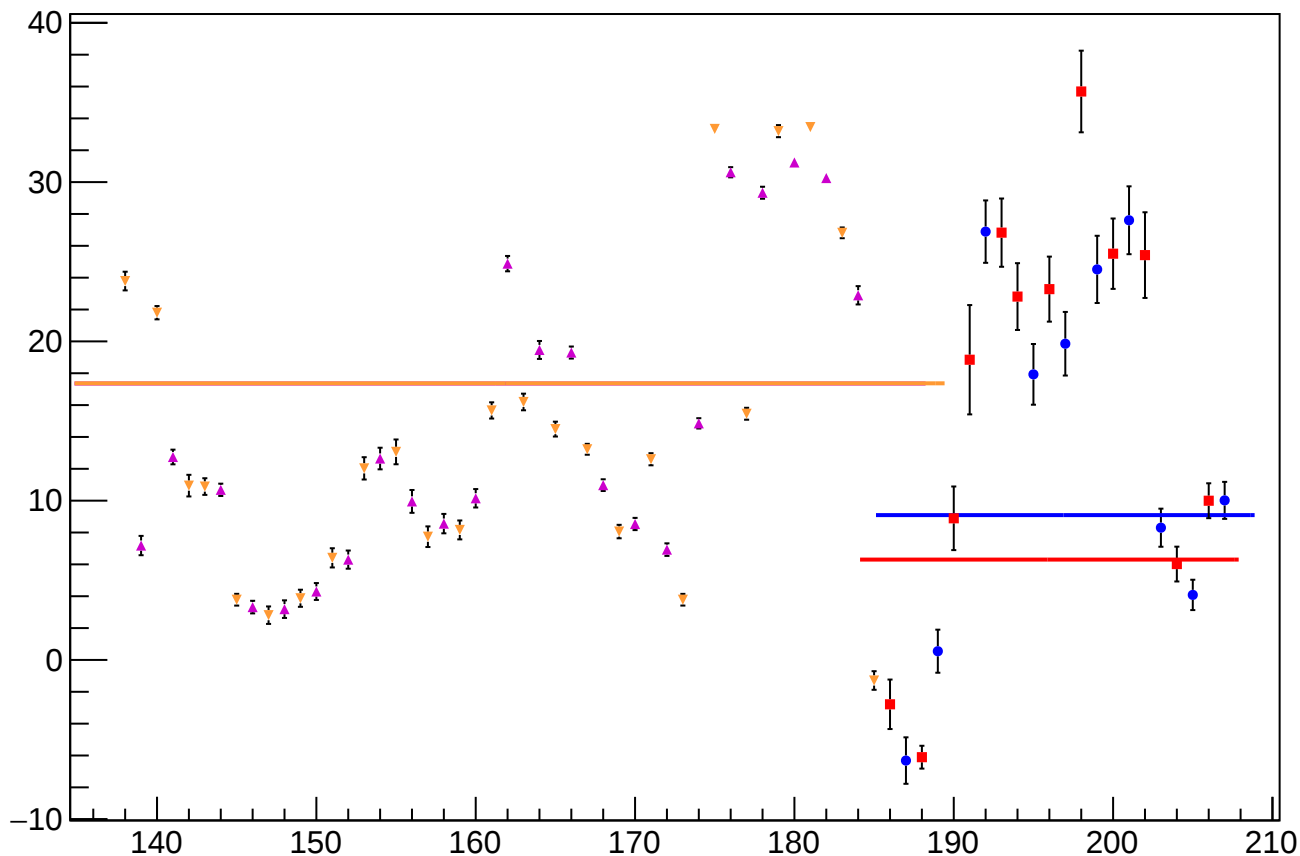
Right: 0.176 $\pm$ 0.025 χ^2/NDF : 1592.7/21

In: 0.405 $\pm$ 0.004 χ^2/NDF : 973.2/32

Out: 0.410 $\pm$ 0.004 χ^2/NDF : 1690.2/36

All: 0.408 $\pm$ 0.003 χ^2/NDF : 2664.0/69

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.093 ± 0.457 $\chi^2/\text{NDF}: 442.3/9$

Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$

Right Out: 6.301 ± 0.425 $\chi^2/\text{NDF}: 840.8/11$

Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$

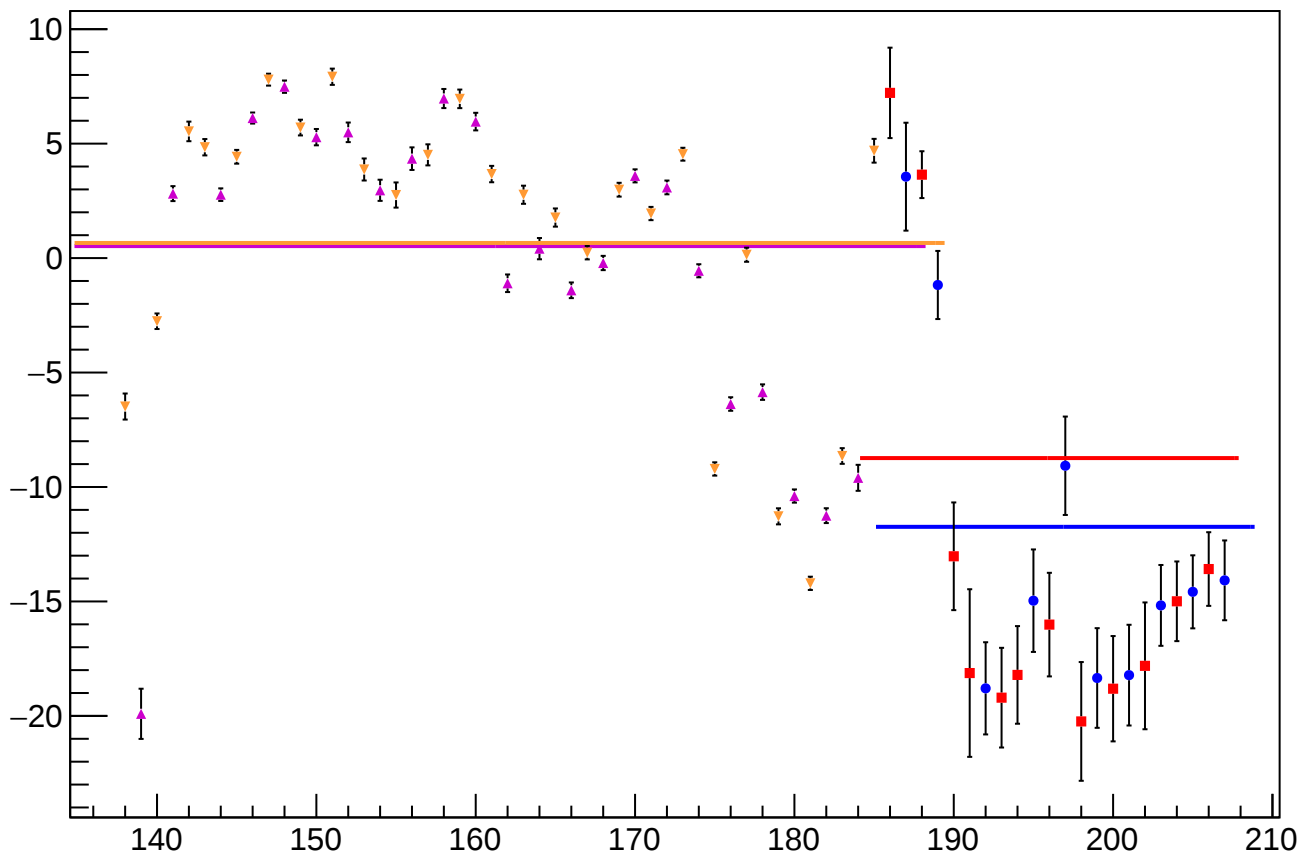
Right: 7.595 ± 0.311 $\chi^2/\text{NDF}: 1303.2/21$

In: 17.054 ± 0.087 $\chi^2/\text{NDF}: 13502.6/32$

Out: 16.920 ± 0.085 $\chi^2/\text{NDF}: 17830.4/36$

All: 16.985 ± 0.061 $\chi^2/\text{NDF}: 31334.2/69$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.740 ± 0.603 χ^2/NDF : 135.0/9

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -8.737 ± 0.552 χ^2/NDF : 346.4/11

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

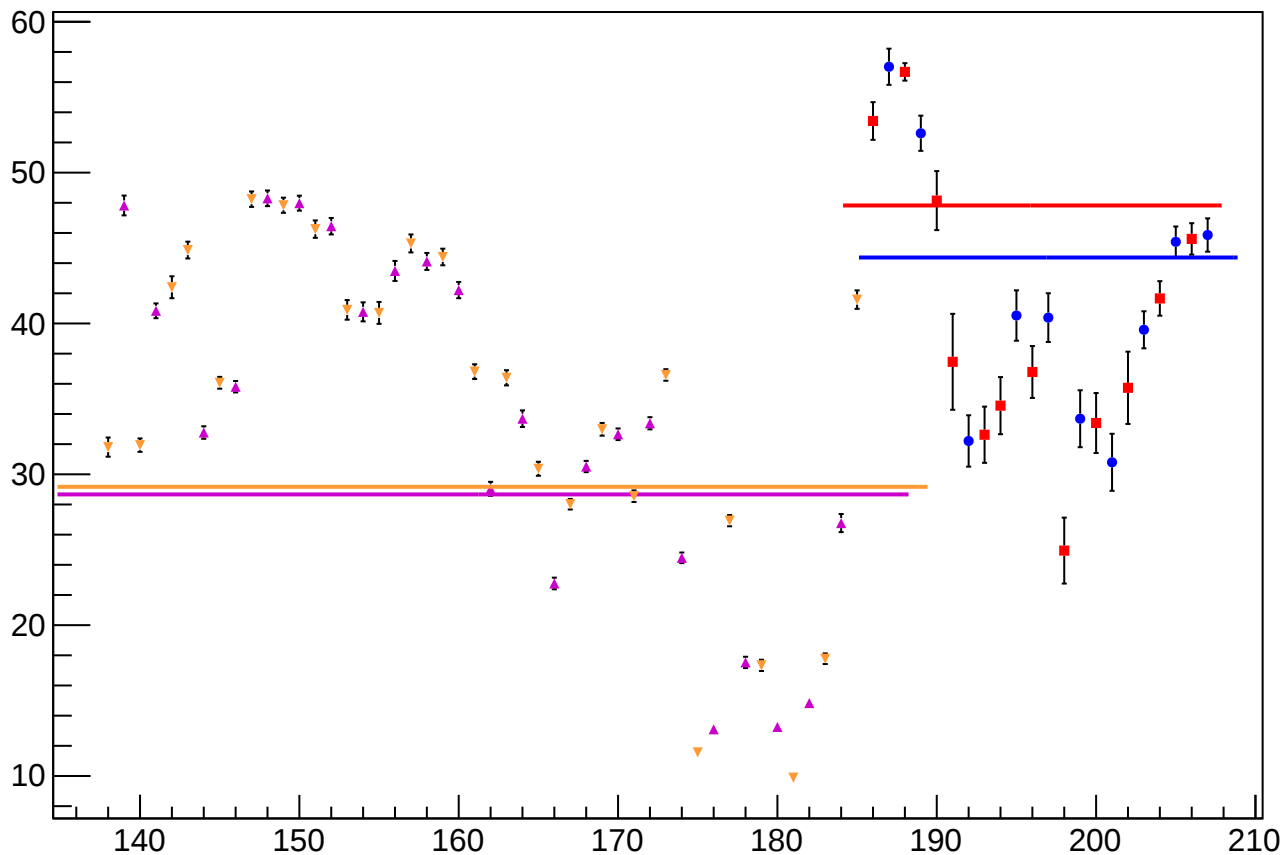
Right: -10.108 ± 0.407 χ^2/NDF : 495.0/21

In: 0.357 ± 0.070 χ^2/NDF : 7273.4/32

Out: 0.515 ± 0.069 χ^2/NDF : 9185.3/36

All: 0.437 ± 0.049 χ^2/NDF : 16461.3/69

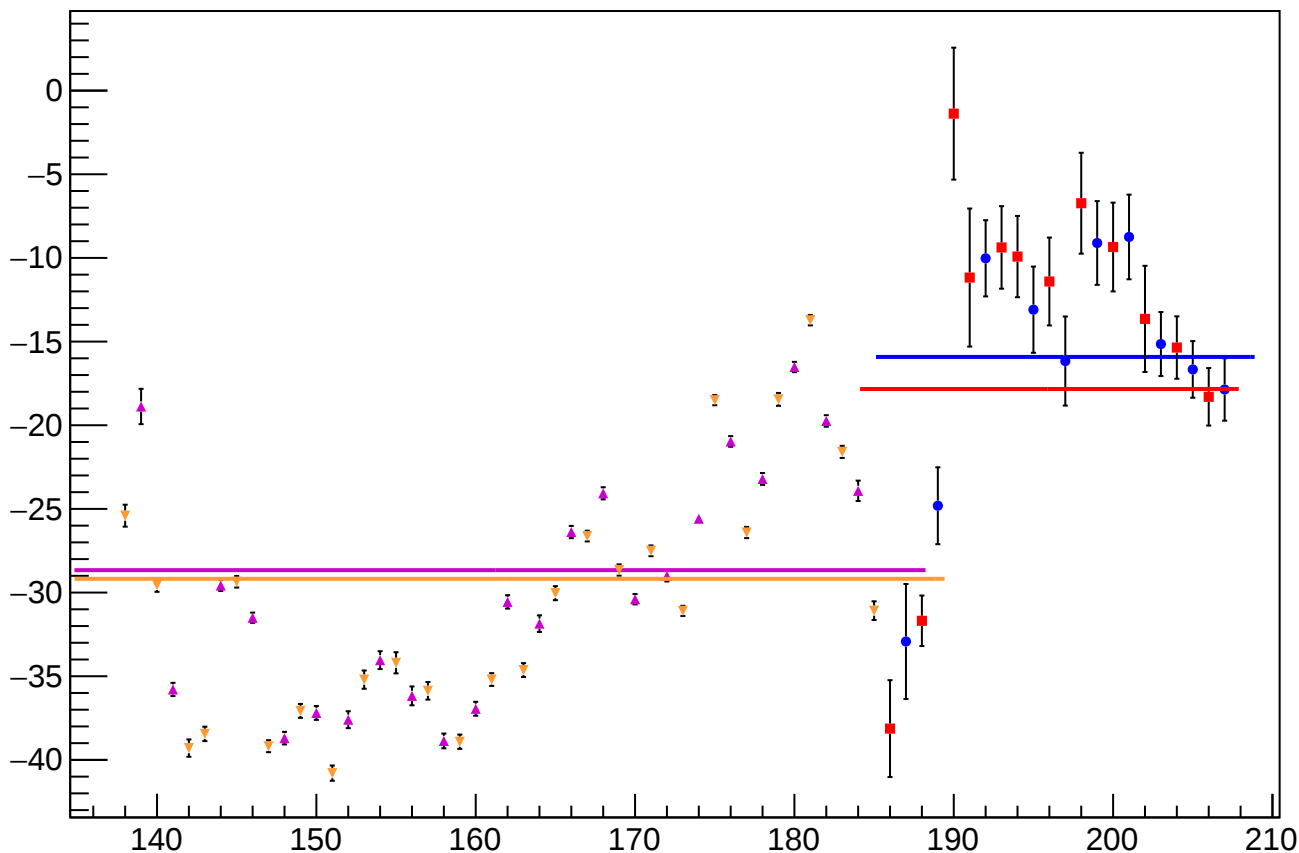
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 44.373 ± 0.425 $\chi^2/\text{NDF}: 325.2/9$
 Left Out: 29.171 ± 0.088 $\chi^2/\text{NDF}: 18974.7/24$
 Right Out: 47.823 ± 0.372 $\chi^2/\text{NDF}: 643.1/11$
 Left In: 28.667 ± 0.089 $\chi^2/\text{NDF}: 16847.2/22$

Left: 28.923 ± 0.063 $\chi^2/\text{NDF}: 35838.1/47$
 Right: 46.327 ± 0.280 $\chi^2/\text{NDF}: 1005.6/21$
 In: 29.328 ± 0.087 $\chi^2/\text{NDF}: 18478.8/32$
 Out: 30.154 ± 0.085 $\chi^2/\text{NDF}: 21996.5/36$
 All: 29.749 ± 0.061 $\chi^2/\text{NDF}: 40521.0/69$

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.917 ± 0.710 χ^2/NDF : 64.3/9

Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24

Right Out: -17.832 ± 0.684 χ^2/NDF : 209.2/11

Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47

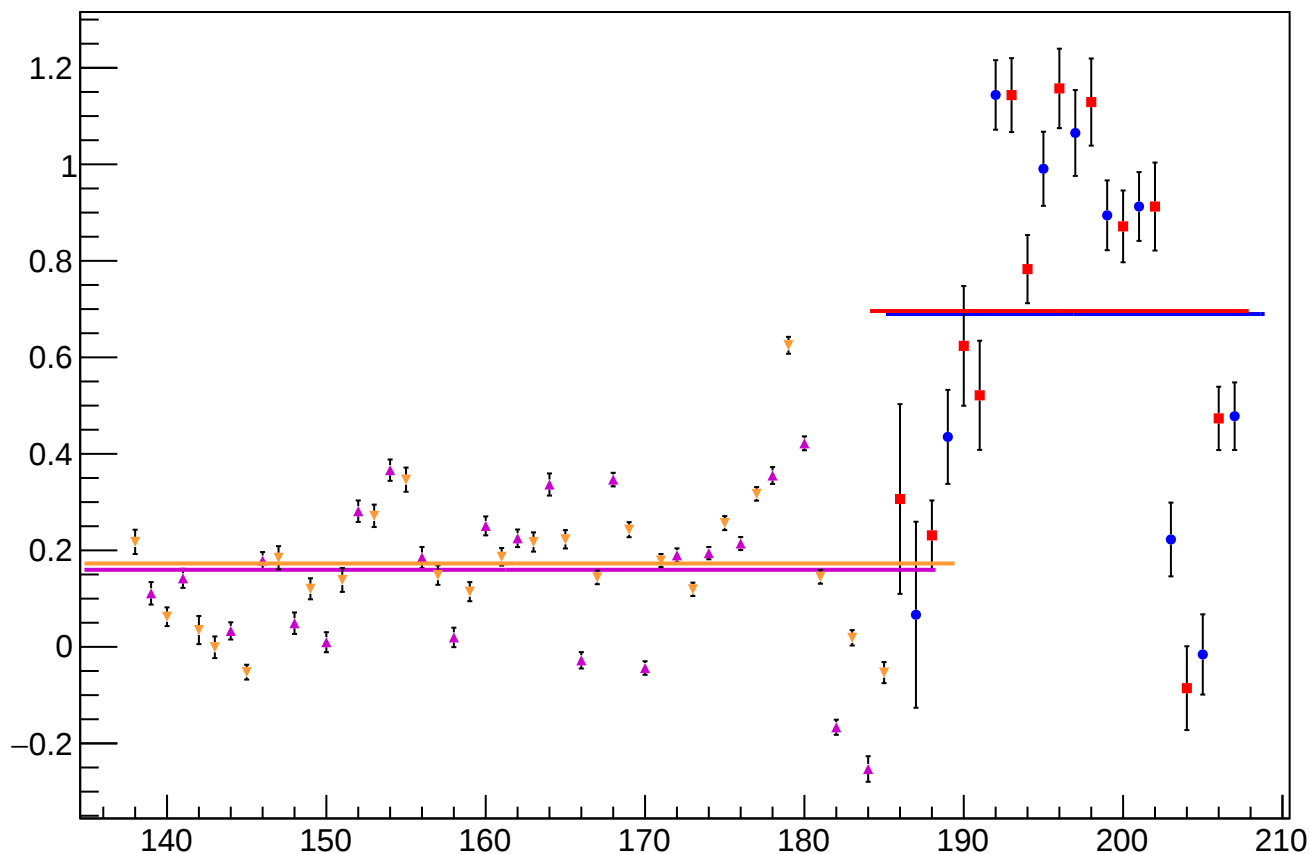
Right: -16.910 ± 0.493 χ^2/NDF : 277.2/21

In: -28.501 ± 0.079 χ^2/NDF : 7052.5/32

Out: -29.032 ± 0.078 χ^2/NDF : 9562.2/36

All: -28.772 ± 0.055 χ^2/NDF : 16637.6/69

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.690 $\pm$ 0.026 χ^2 /NDF: 226.4/9

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.696 $\pm$ 0.024 χ^2 /NDF: 241.7/11

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

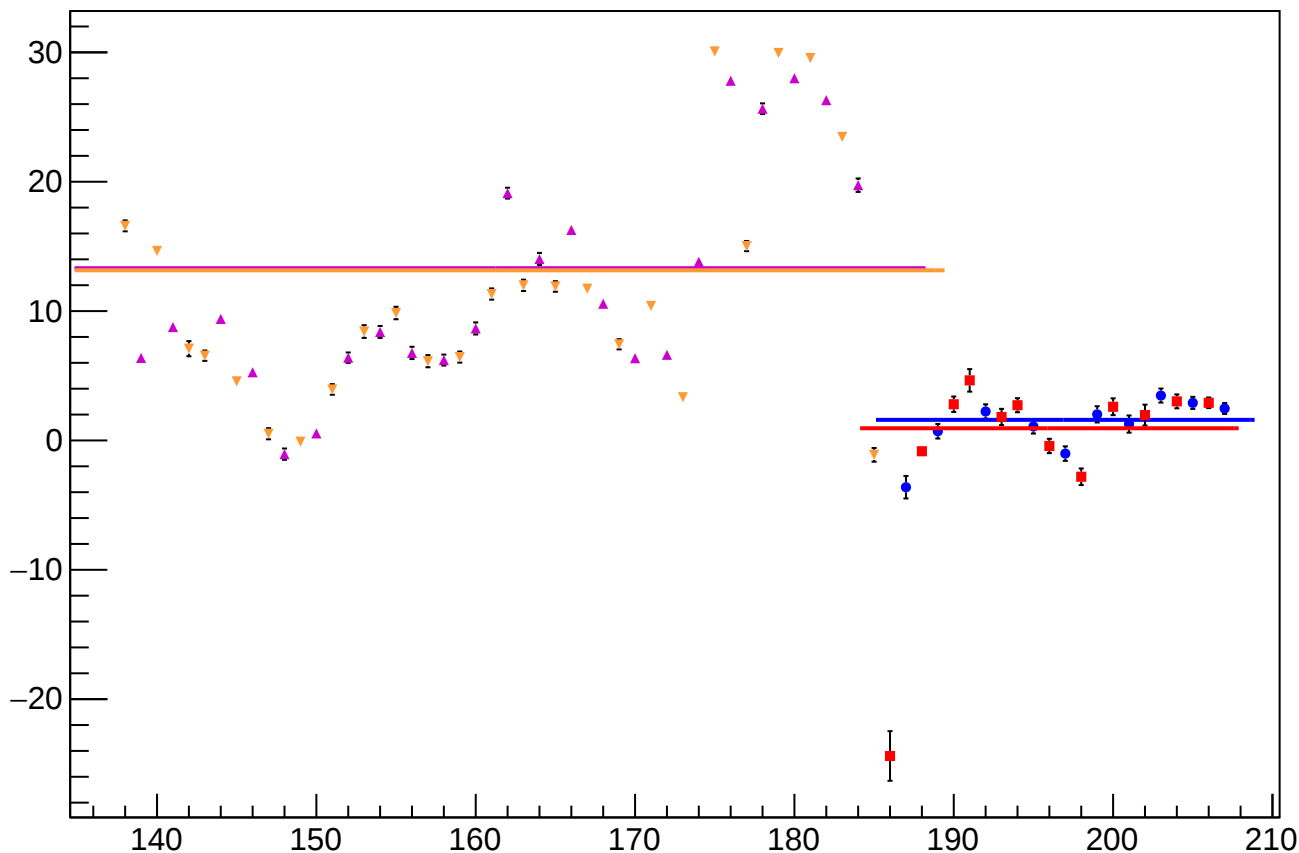
Right: 0.693 $\pm$ 0.018 χ^2 /NDF: 468.1/21

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2705.2/32

Out: 0.184 $\pm$ 0.004 χ^2 /NDF:2166.8/36

All: 0.177 $\pm$ 0.003 χ^2 /NDF: 4879.0/69

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.592 ± 0.175 χ^2/NDF : 87.2/9

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: 0.941 ± 0.155 χ^2/NDF : 340.7/11

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

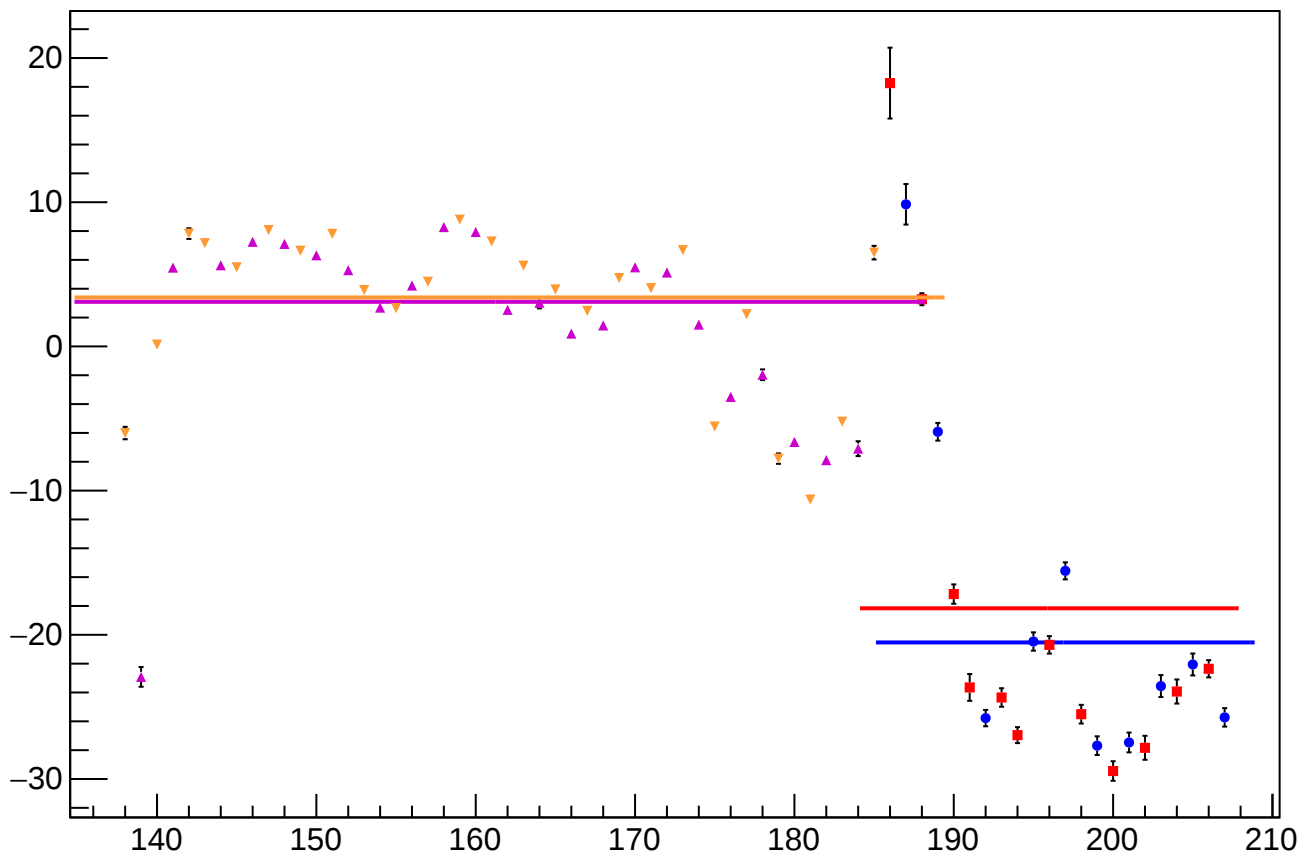
Right: 1.226 ± 0.116 χ^2/NDF : 435.6/21

In: 11.416 ± 0.071 χ^2/NDF : 17810.1/32

Out: 10.815 ± 0.068 χ^2/NDF : 22467.3/36

All: 11.102 ± 0.049 χ^2/NDF : 40315.1/69

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -20.529 ± 0.213 $\chi^2/\text{NDF}: 1499.1/9$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -18.161 ± 0.189 $\chi^2/\text{NDF}: 3932.4/11$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

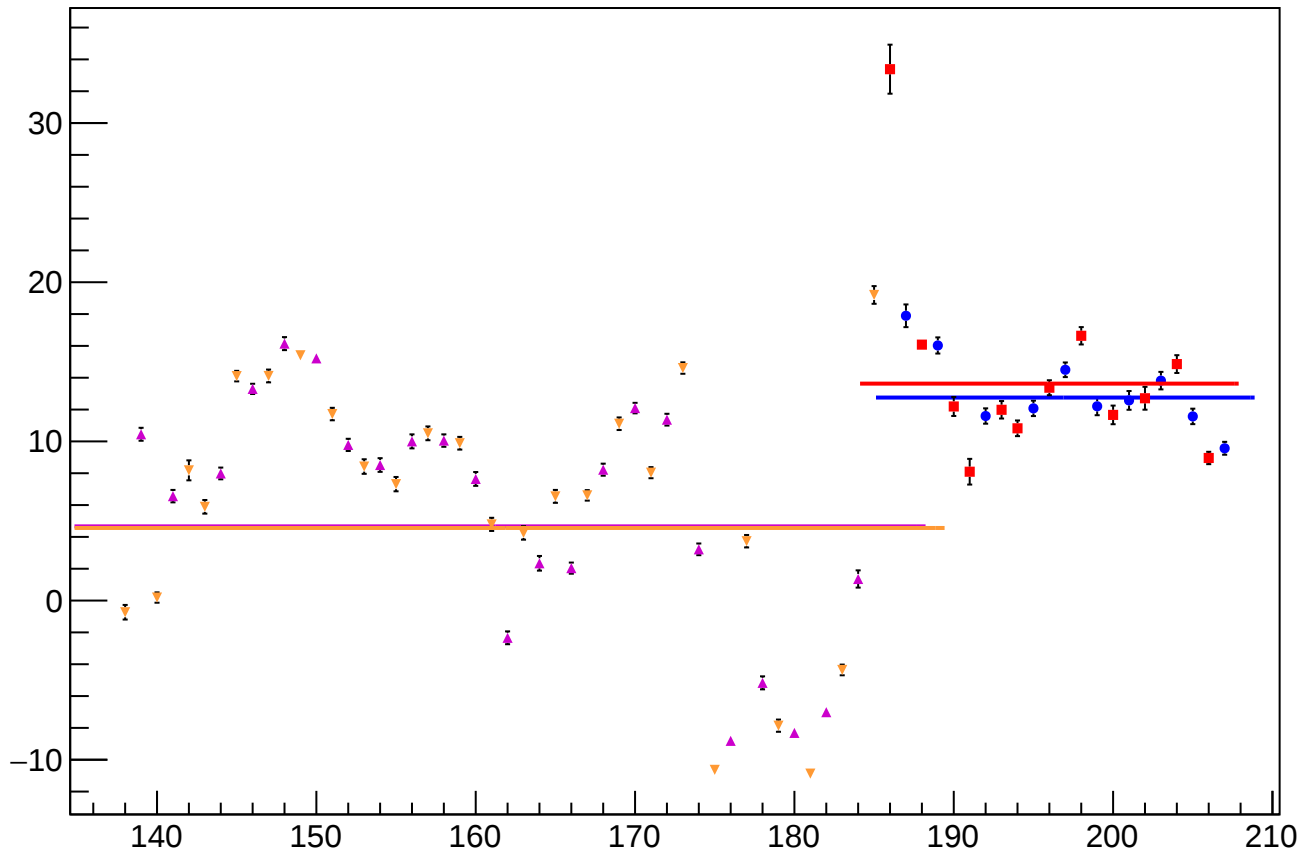
Right: -19.202 ± 0.141 $\chi^2/\text{NDF}: 5500.7/21$

In: 1.329 ± 0.058 $\chi^2/\text{NDF}: 19959.0/32$

Out: 1.517 ± 0.056 $\chi^2/\text{NDF}: 23916.7/36$

All: 1.427 ± 0.040 $\chi^2/\text{NDF}: 43881.2/69$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.755+/-0.160 χ^2/NDF : 188.3/9

Left Out: 4.561+/-0.075 χ^2/NDF : 13592.1/24

Right Out: 13.630+/-0.136 χ^2/NDF : 566.7/11

Left In: 4.662+/-0.077 χ^2/NDF : 11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

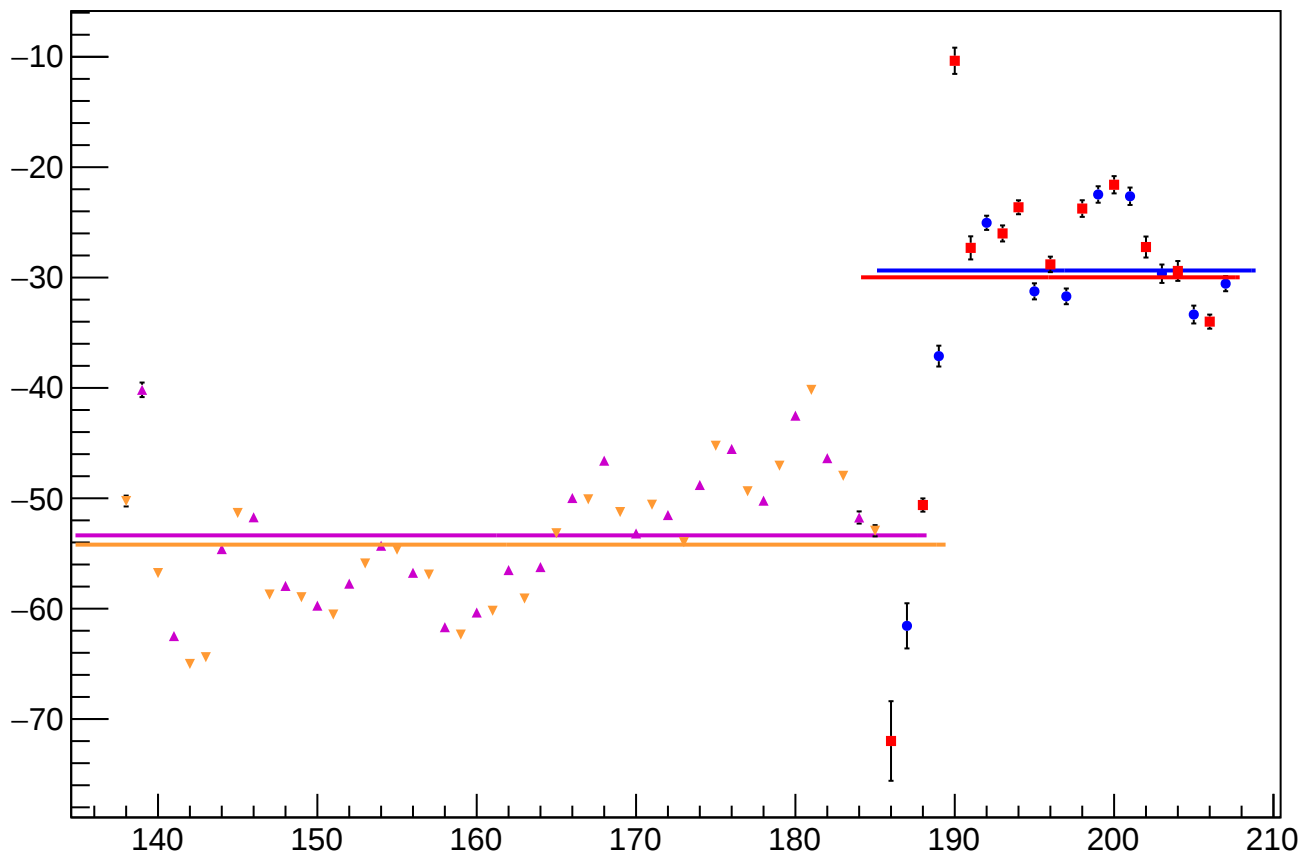
Right: 13.263+/-0.104 χ^2/NDF : 772.3/21

In: 6.170+/-0.069 χ^2/NDF : 13538.9/32

Out: 6.688+/-0.066 χ^2/NDF : 17552.9/36

All: 6.442+/-0.048 χ^2/NDF : 31121.0/69

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.360 ± 0.249 $\chi^2/\text{NDF}: 563.3/9$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -29.978 ± 0.229 $\chi^2/\text{NDF}: 1966.7/11$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

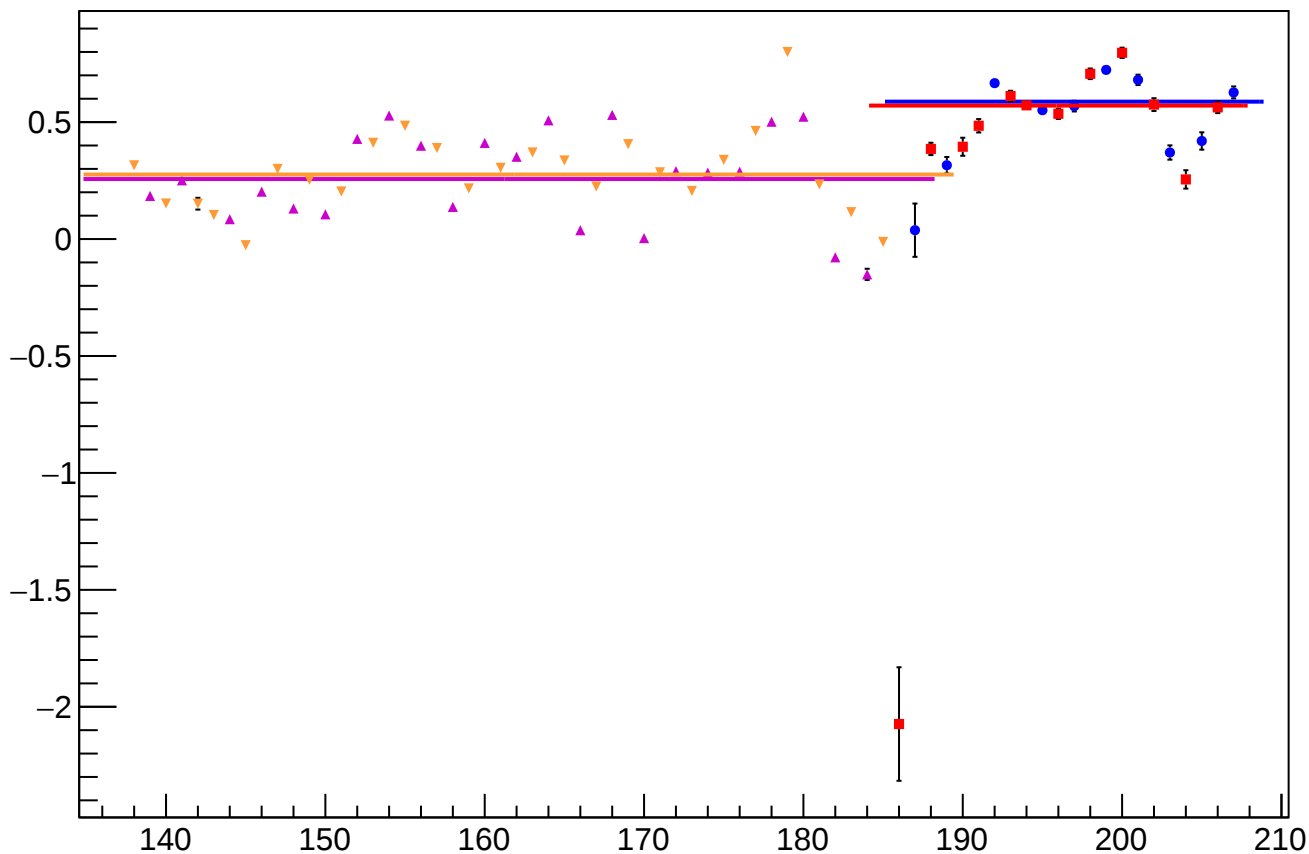
Right: -29.695 ± 0.168 $\chi^2/\text{NDF}: 2533.3/21$

In: -51.669 ± 0.066 $\chi^2/\text{NDF}: 16093.7/32$

Out: -52.317 ± 0.064 $\chi^2/\text{NDF}: 20760.1/36$

All: -52.004 ± 0.046 $\chi^2/\text{NDF}: 36903.8/69$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.587 $\pm$ 0.008 χ^2 /NDF: 232.8/9

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.571 $\pm$ 0.007 χ^2 /NDF: 410.5/11

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

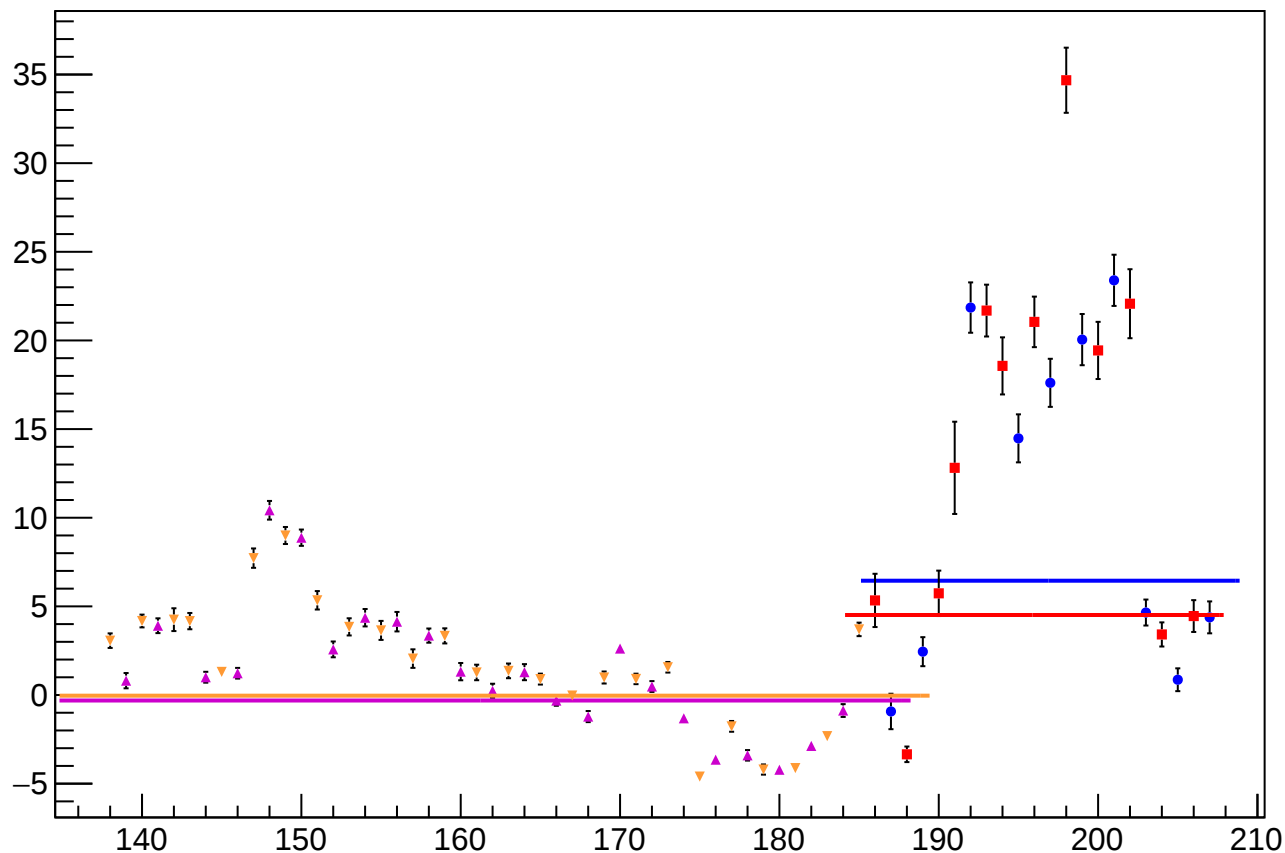
Right: 0.578 $\pm$ 0.006 χ^2 /NDF: 645.6/21

In: 0.298 $\pm$ 0.003 χ^2 /NDF:5280.4/32

Out: 0.318 $\pm$ 0.003 χ^2 /NDF:4377.0/36

All: 0.309 $\pm$ 0.002 χ^2 /NDF: 9682.2/69

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.447 ± 0.308 χ^2/NDF : 611.9/9

Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24

Right Out: 4.514 ± 0.288 χ^2/NDF : 1119.8/11

Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47

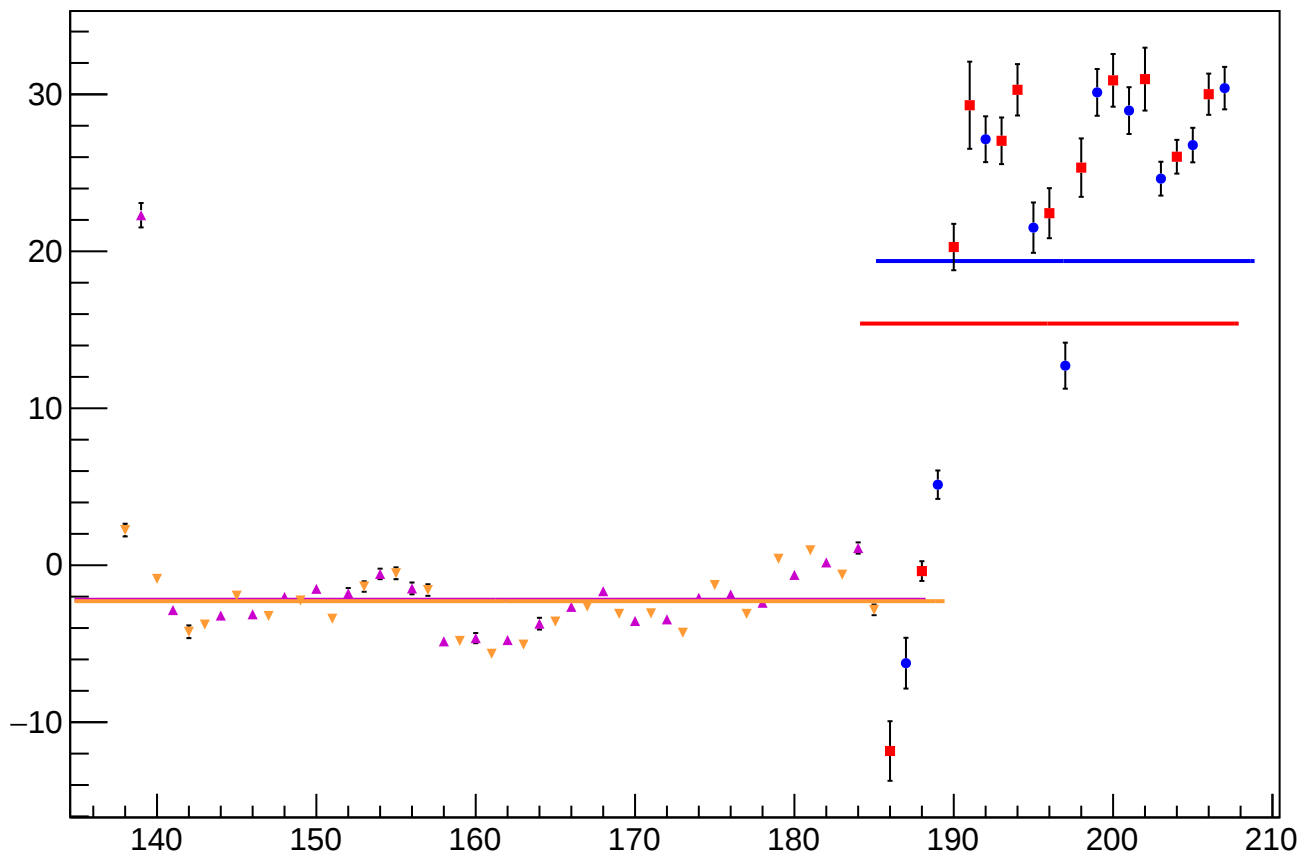
Right: 5.415 ± 0.210 χ^2/NDF : 1752.8/21

In: -0.002 ± 0.066 χ^2/NDF : 3322.1/32

Out: 0.190 ± 0.064 χ^2/NDF : 3995.1/36

All: 0.096 ± 0.046 χ^2/NDF : 7321.6/69

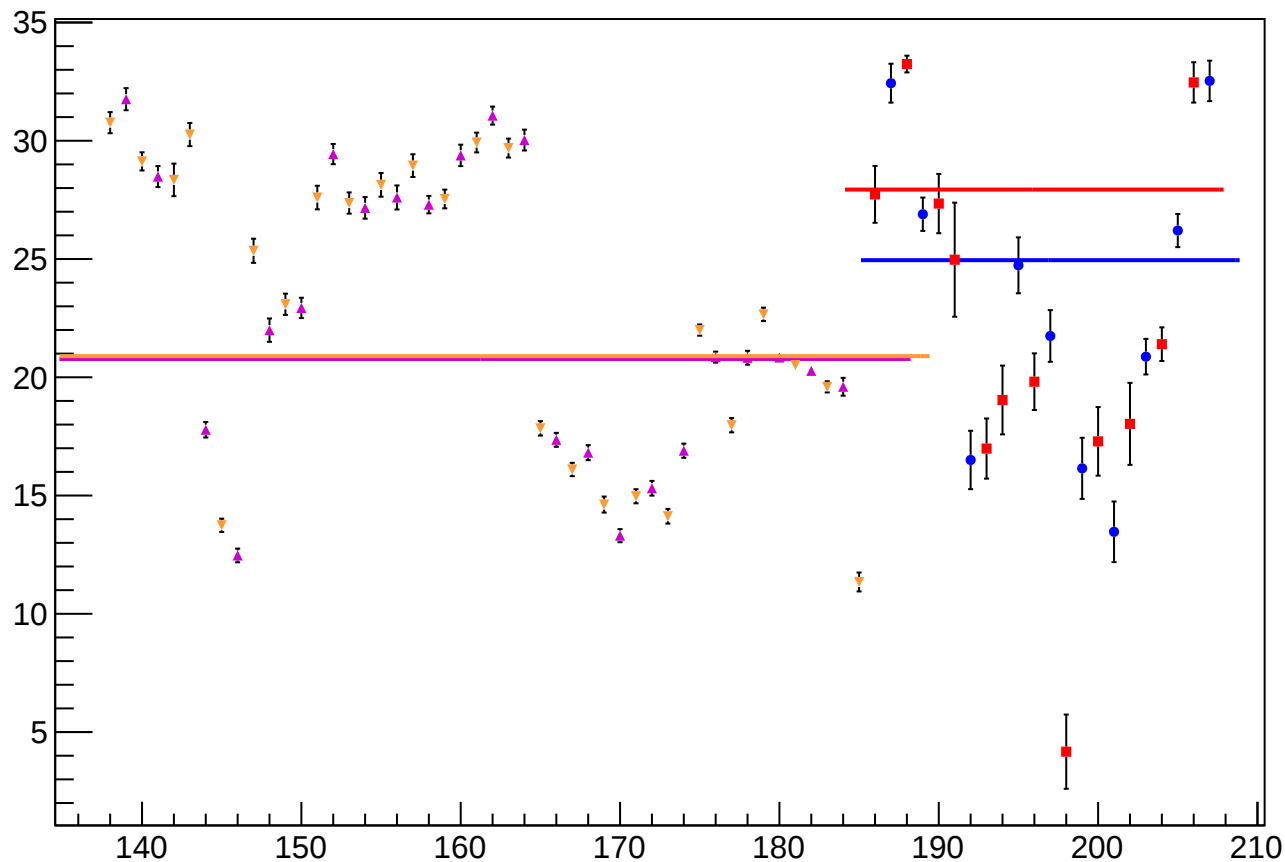
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.381 ± 0.406 $\chi^2/\text{NDF}: 777.8/9$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 15.397 ± 0.379 $\chi^2/\text{NDF}: 1432.1/11$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 17.251 ± 0.277 $\chi^2/\text{NDF}: 2261.2/21$
 In: -1.808 ± 0.055 $\chi^2/\text{NDF}: 5222.8/32$
 Out: -1.934 ± 0.054 $\chi^2/\text{NDF}: 4703.5/36$
 All: -1.872 ± 0.038 $\chi^2/\text{NDF}: 9929.0/69$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 24.951 $\pm$ 0.288 χ^2 /NDF: 383.7/9

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 27.936 $\pm$ 0.251 χ^2 /NDF: 812.8/11

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

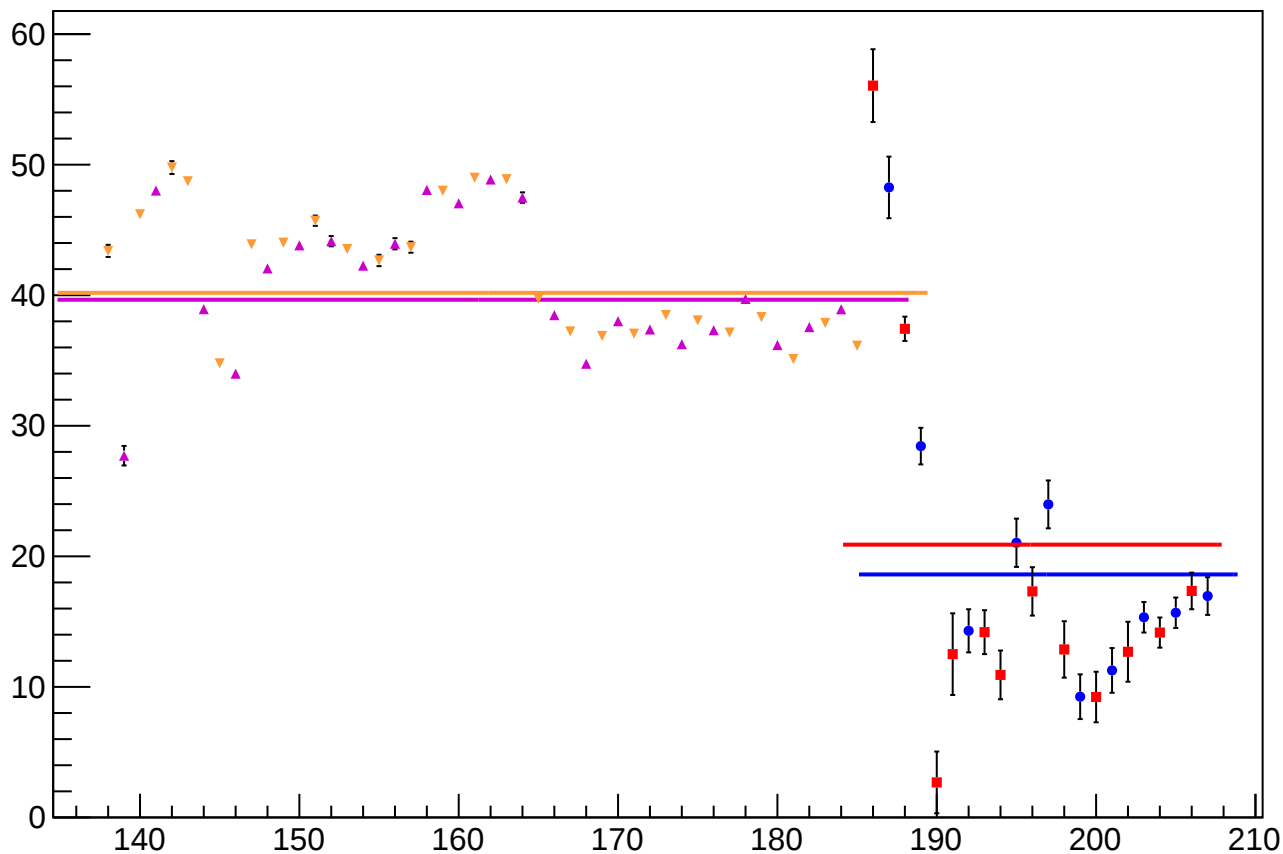
Right: 26.645 $\pm$ 0.189 χ^2 /NDF: 1257.5/21

In: 20.992 $\pm$ 0.066 χ^2 /NDF:6511.2/32

Out: 21.358 $\pm$ 0.064 χ^2 /NDF:8201.9/36

All: 21.179 $\pm$ 0.046 χ^2 /NDF: 14728.8/69

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.615 ± 0.484 $\chi^2/\text{NDF}: 288.1/9$

Left Out: 40.186 ± 0.060 $\chi^2/\text{NDF}: 5932.7/24$

Right Out: 20.895 ± 0.475 $\chi^2/\text{NDF}: 693.0/11$

Left In: 39.655 ± 0.061 $\chi^2/\text{NDF}: 5298.6/22$

Left: 39.925 ± 0.043 $\chi^2/\text{NDF}: 11269.2/47$

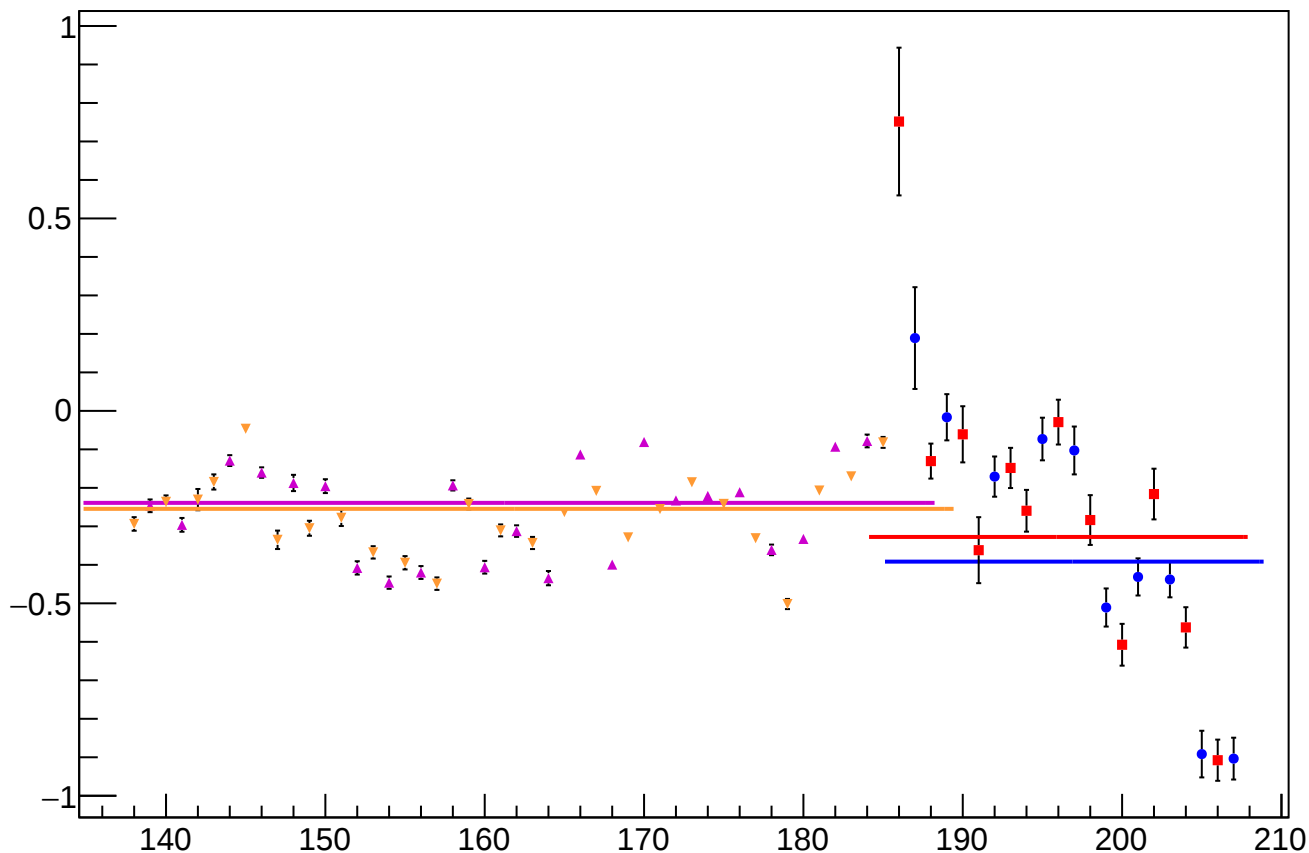
Right: 19.775 ± 0.339 $\chi^2/\text{NDF}: 992.4/21$

In: 39.321 ± 0.061 $\chi^2/\text{NDF}: 7447.9/32$

Out: 39.880 ± 0.060 $\chi^2/\text{NDF}: 8246.9/36$

All: 39.605 ± 0.043 $\chi^2/\text{NDF}: 15737.5/69$

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.392 ± 0.018 χ^2/NDF : 295.2/9

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.328 ± 0.017 χ^2/NDF : 271.1/11

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

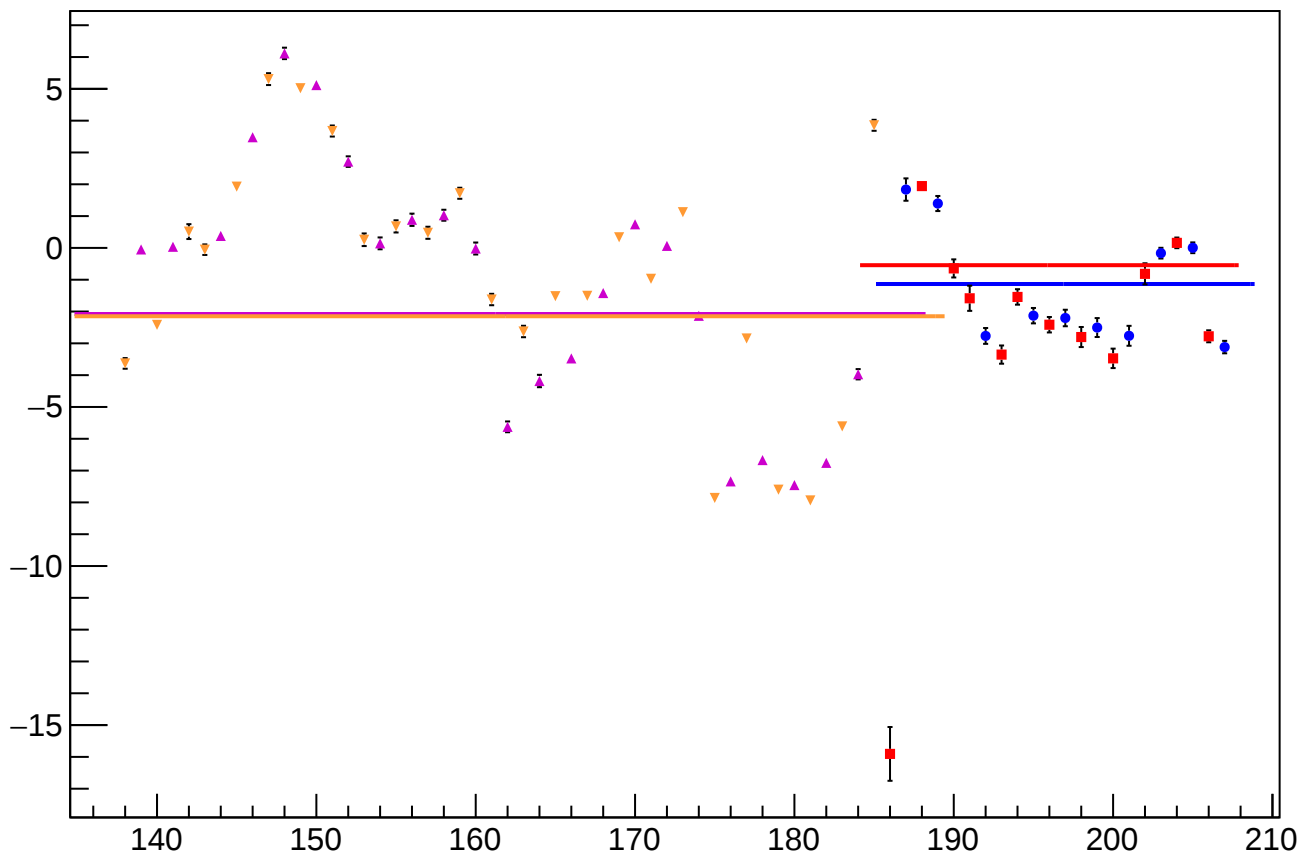
Right: -0.359 ± 0.012 χ^2/NDF : 573.1/21

In: -0.243 ± 0.003 χ^2/NDF : 2118.5/32

Out: -0.256 ± 0.003 χ^2/NDF : 1709.0/36

All: -0.250 ± 0.002 χ^2/NDF : 3840.0/69

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

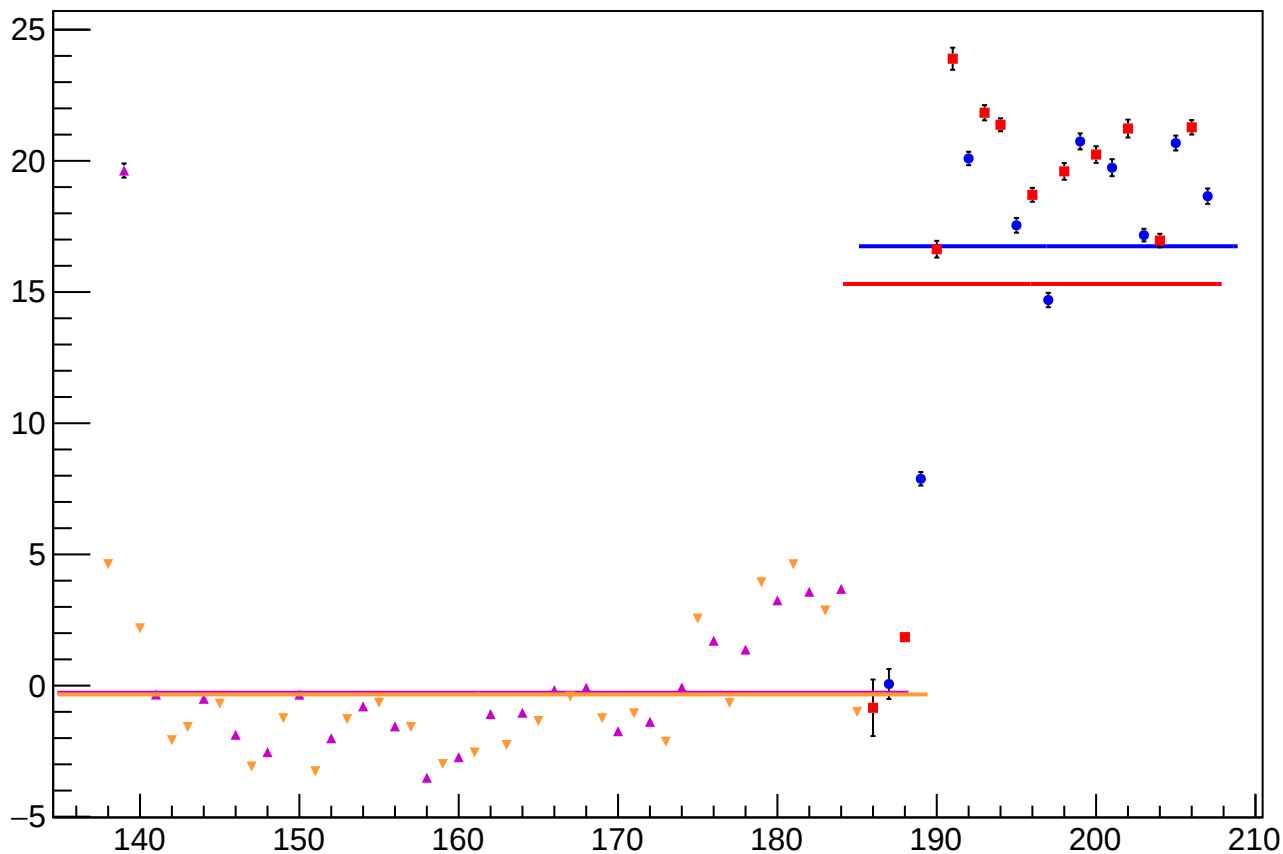


Right In: -1.135 ± 0.072 $\chi^2/\text{NDF}: 491.1/9$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.543 ± 0.064 $\chi^2/\text{NDF}: 1326.0/11$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -0.804 ± 0.048 $\chi^2/\text{NDF}: 1854.6/21$
 In: -1.969 ± 0.025 $\chi^2/\text{NDF}: 23887.7/32$
 Out: -1.928 ± 0.024 $\chi^2/\text{NDF}: 26402.4/36$

All: -1.948 ± 0.017 $\chi^2/\text{NDF}: 50291.6/69$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.745 $\pm$ 0.091 χ^2 /NDF: 2751.3/9

Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24

Right Out: 15.308 $\pm$ 0.081 χ^2 /NDF: 10111.8/11

Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47

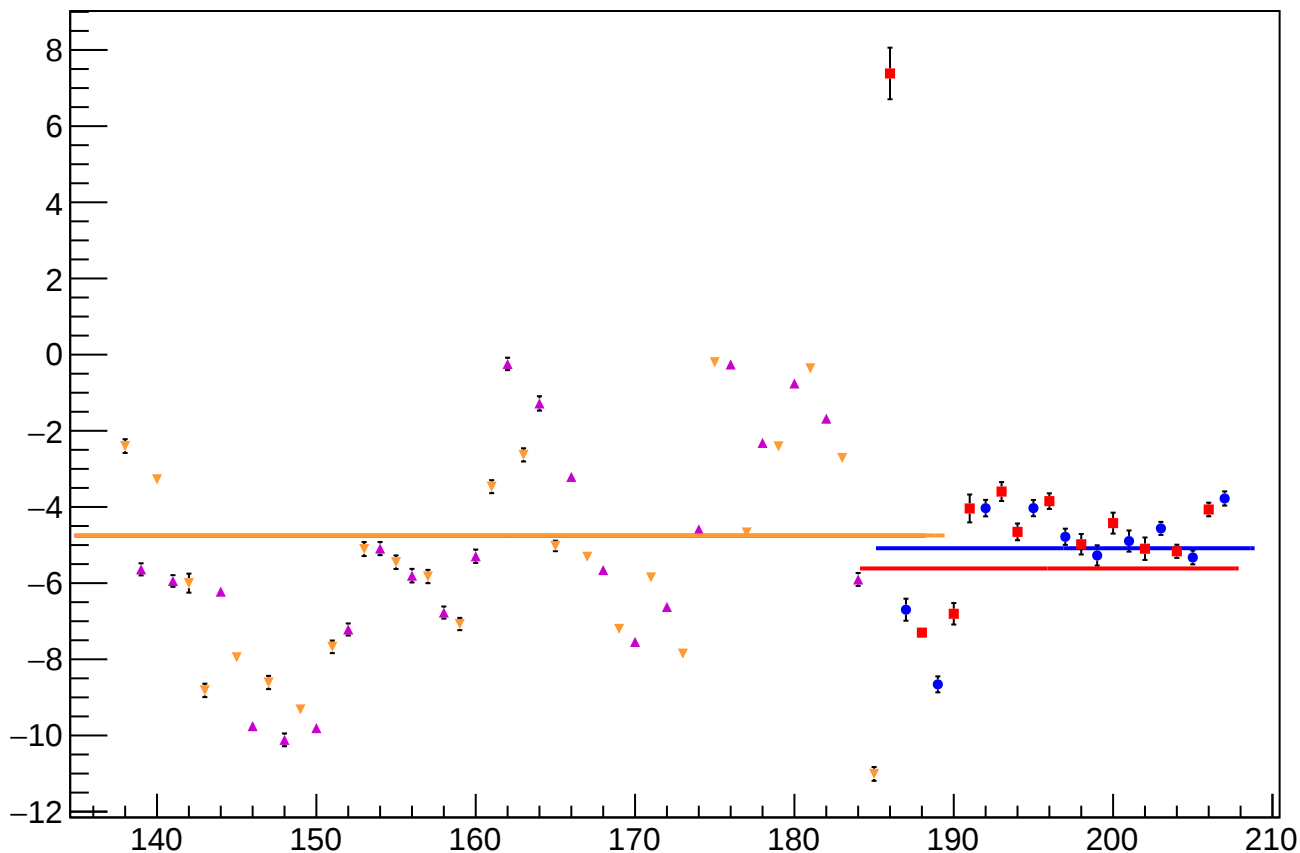
Right: 15.941 $\pm$ 0.060 χ^2 /NDF: 13002.9/21

In: 0.587 $\pm$ 0.020 χ^2 /NDF:49302.4/32

Out: 0.620 $\pm$ 0.020 χ^2 /NDF:57967.3/36

All: 0.604 $\pm$ 0.014 χ^2 /NDF: 107271.0/69

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47

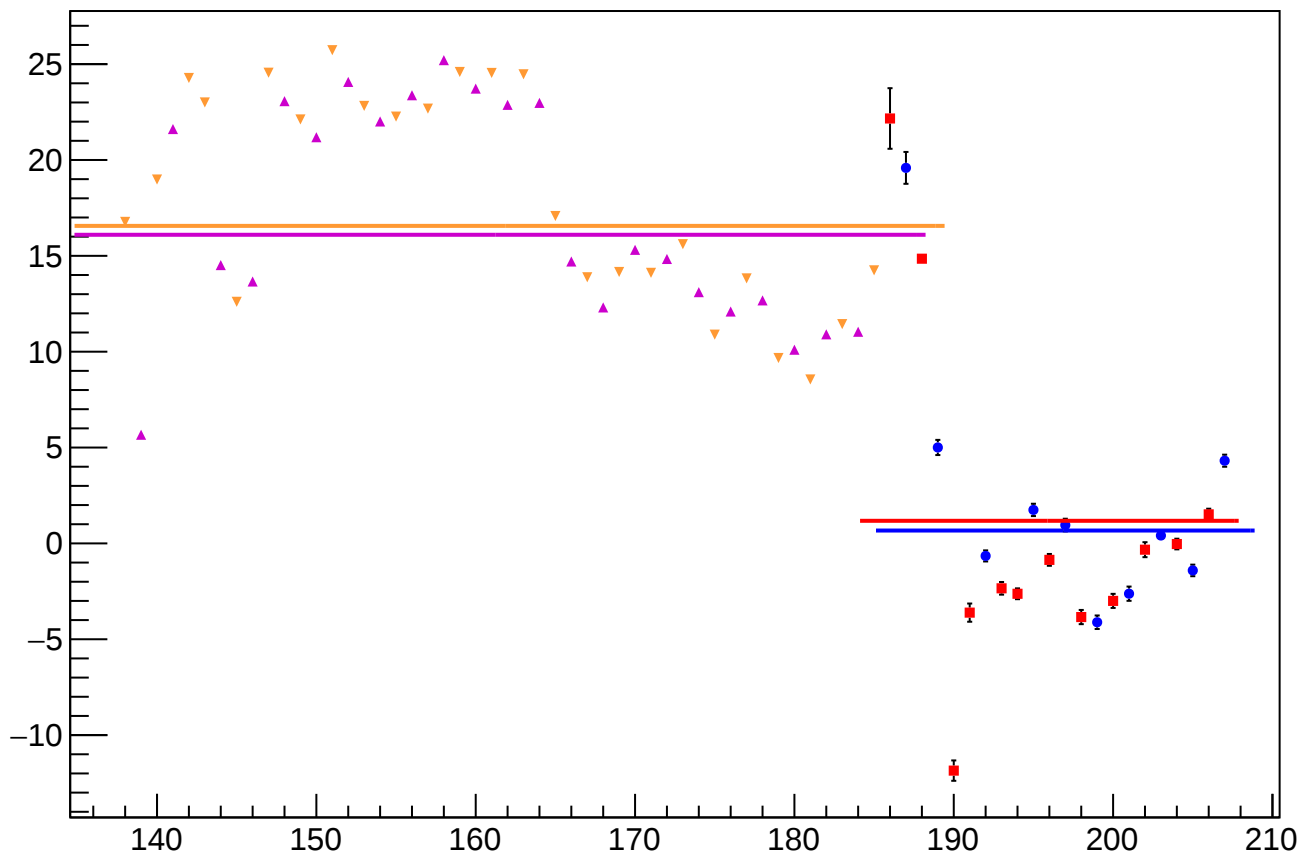
Right: -5.395 ± 0.043 χ^2/NDF : 1499.8/21

In: -4.796 ± 0.024 χ^2/NDF : 14571.5/32

Out: -4.897 ± 0.024 χ^2/NDF : 14515.7/36

All: -4.849 ± 0.017 χ^2/NDF : 29096.1/69

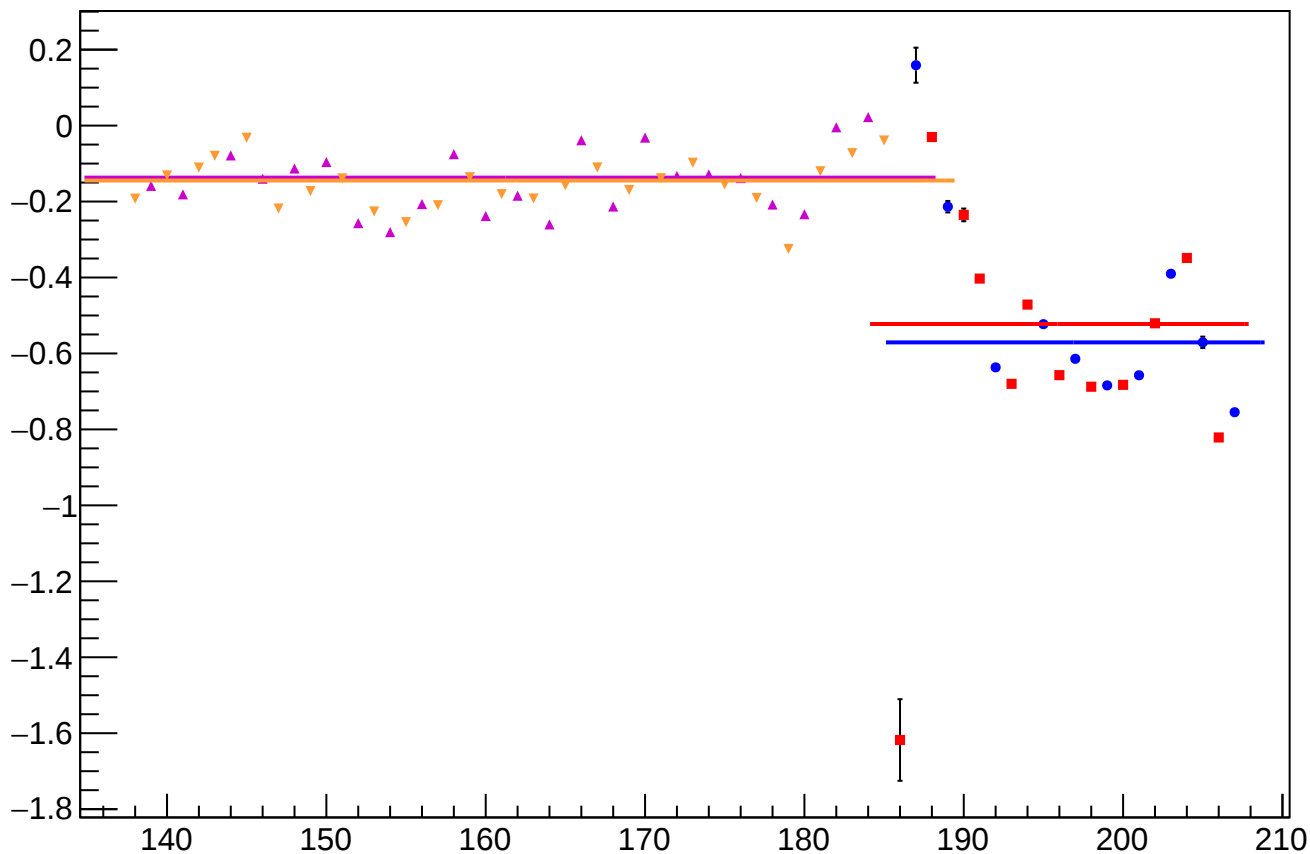
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.671 ± 0.106 χ^2/NDF : 1115.6/9
 Left Out: 16.563 ± 0.023 χ^2/NDF : 53858.5/24
 Right Out: 1.179 ± 0.098 χ^2/NDF : 4983.0/11
 Left In: 16.098 ± 0.024 χ^2/NDF : 42345.7/22

Left: 16.335 ± 0.017 χ^2/NDF : 96401.9/47
 Right: 0.944 ± 0.072 χ^2/NDF : 6111.0/21
 In: 15.367 ± 0.023 χ^2/NDF : 63792.0/32
 Out: 15.746 ± 0.023 χ^2/NDF : 82294.2/36
 All: 15.560 ± 0.016 χ^2/NDF : 146225.0/69

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.571 ± 0.004 χ^2/NDF : 1686.0/9

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 4572.4/11

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

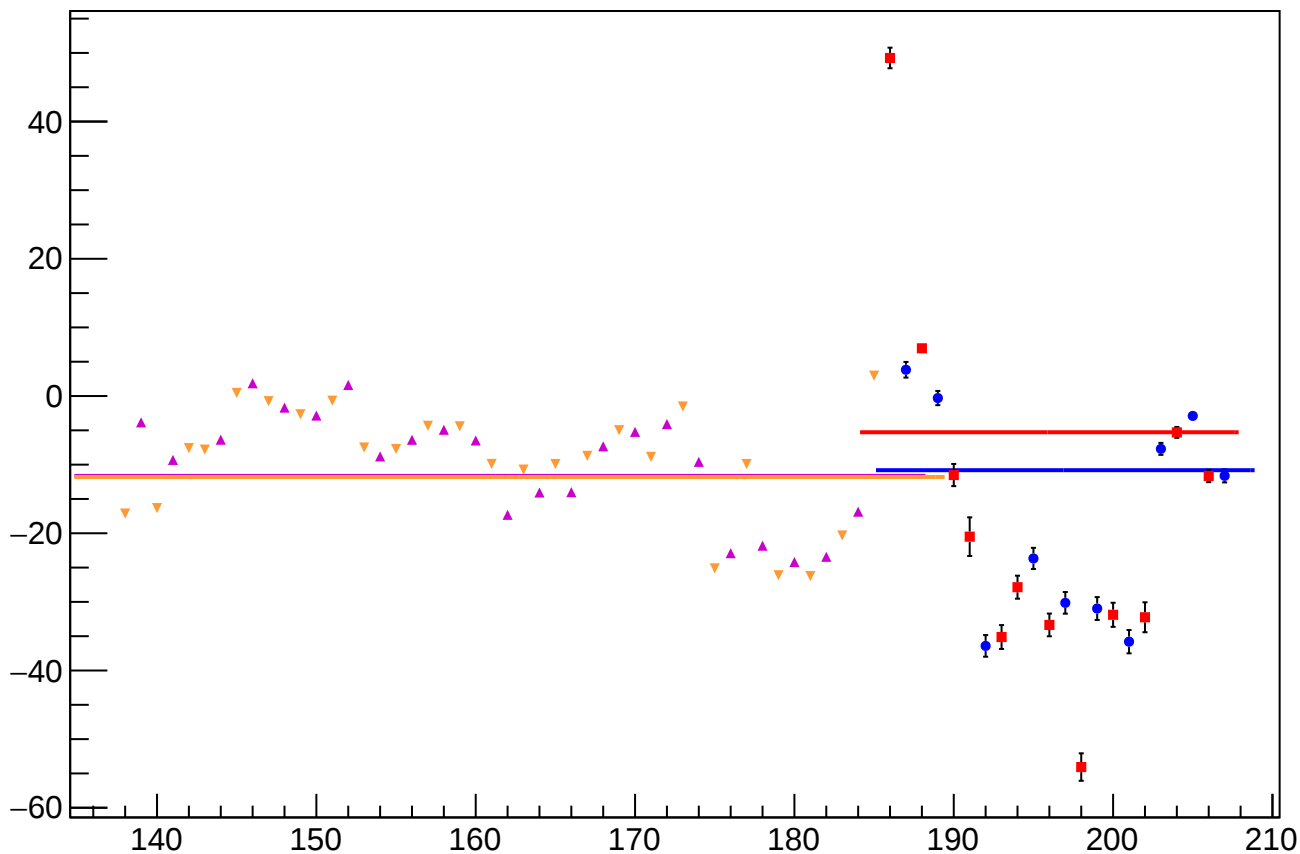
Right: -0.544 ± 0.002 χ^2/NDF : 6358.4/21

In: -0.173 ± 0.001 χ^2/NDF : 20516.0/32

Out: -0.180 ± 0.001 χ^2/NDF : 20525.6/36

All: -0.177 ± 0.001 χ^2/NDF : 41071.4/69

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.808 ± 0.355 $\chi^2/\text{NDF}: 1247.4/9$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -5.278 ± 0.332 $\chi^2/\text{NDF}: 3675.3/11$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

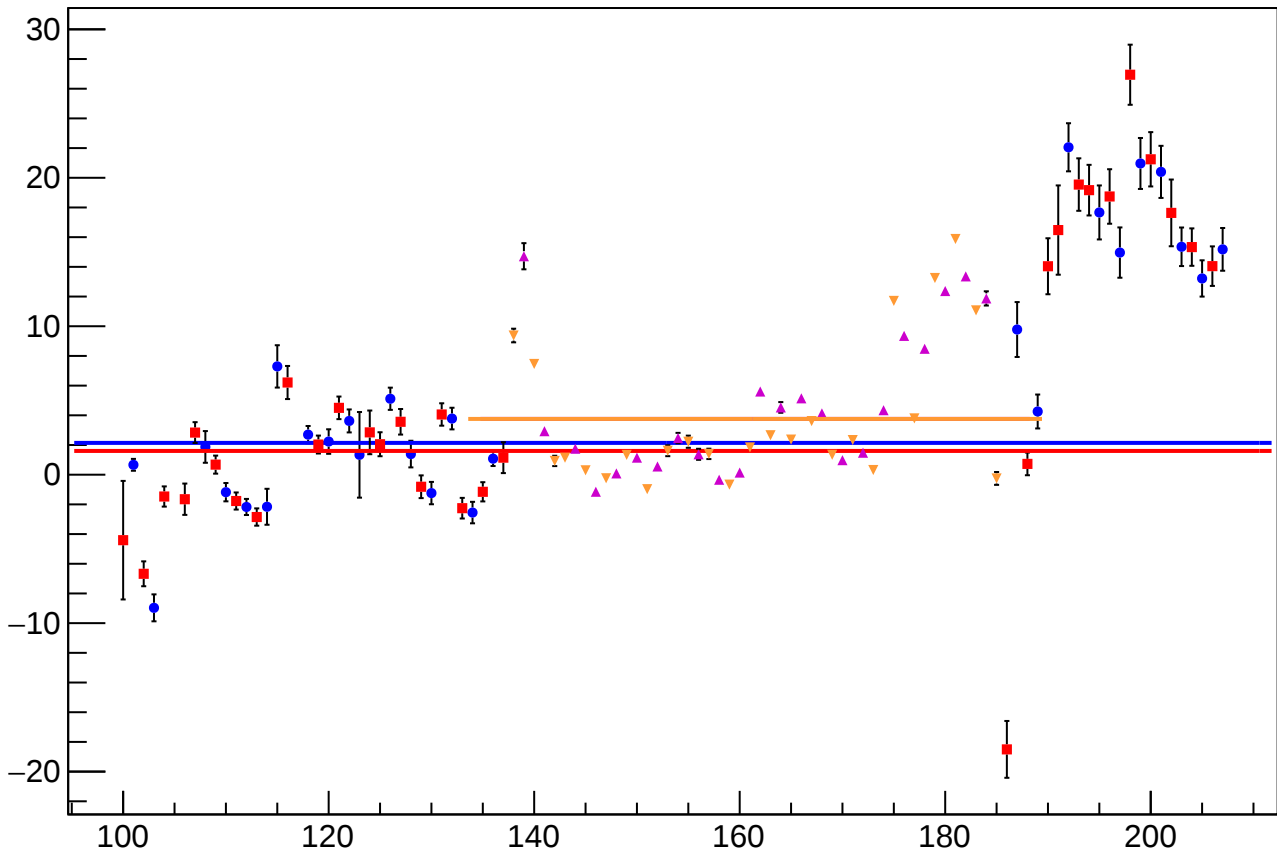
Right: -7.861 ± 0.242 $\chi^2/\text{NDF}: 5052.3/21$

In: -11.609 ± 0.070 $\chi^2/\text{NDF}: 15373.9/32$

Out: -11.521 ± 0.069 $\chi^2/\text{NDF}: 21353.1/36$

All: -11.564 ± 0.049 $\chi^2/\text{NDF}: 36727.8/69$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.143 ± 0.160 $\chi^2/\text{NDF}: 1172.4/26$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.600 ± 0.162 $\chi^2/\text{NDF}: 1340.7/30$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

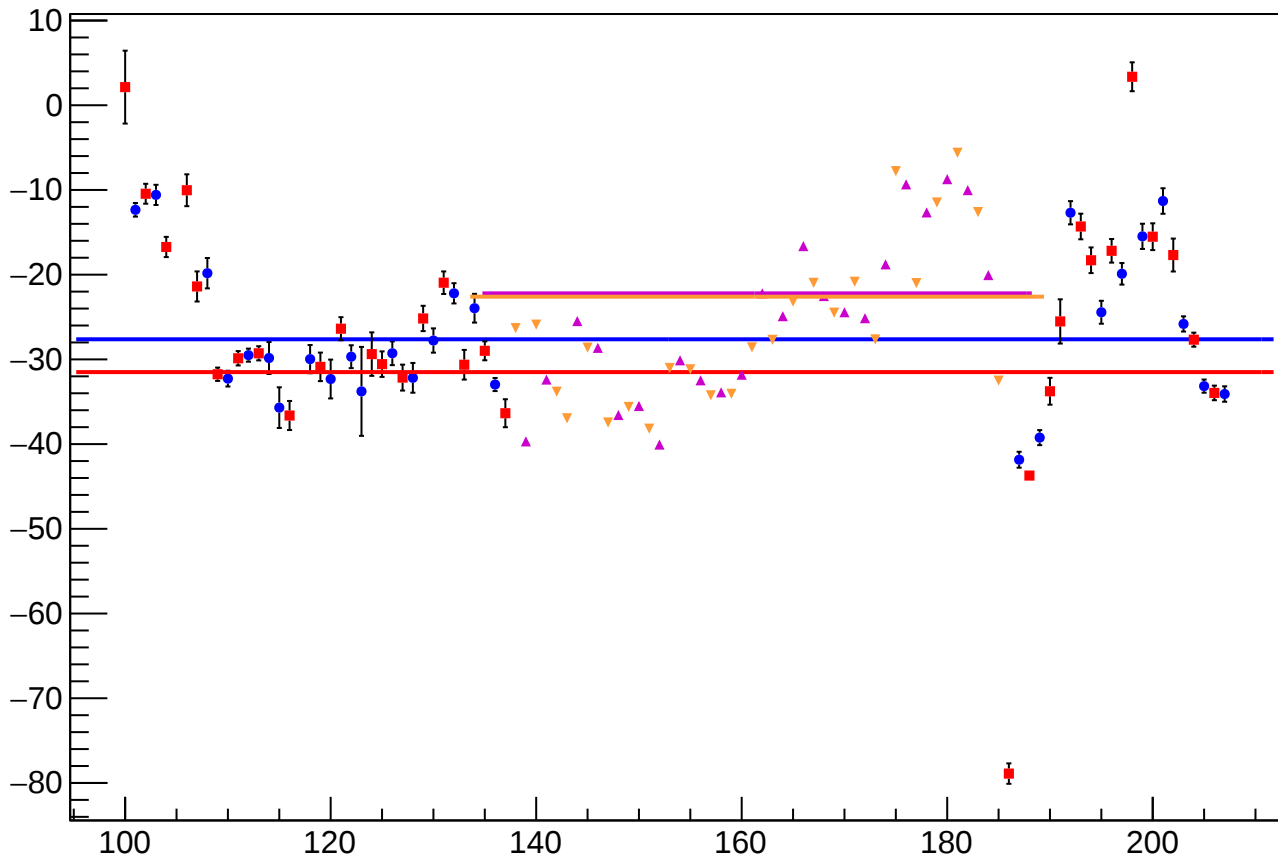
Right: 1.875 ± 0.114 $\chi^2/\text{NDF}: 2518.7/57$

In: 3.578 ± 0.053 $\chi^2/\text{NDF}: 6891.9/49$

Out: 3.531 ± 0.053 $\chi^2/\text{NDF}: 8949.4/55$

All: 3.554 ± 0.037 $\chi^2/\text{NDF}: 15841.7/105$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.627 ± 0.223 χ^2/NDF : 1570.6/26

Left Out: -22.598 ± 0.071 χ^2/NDF : 19933.4/24

Right Out: -31.500 ± 0.208 χ^2/NDF : 4086.3/30

Left In: -22.209 ± 0.072 χ^2/NDF : 17627.4/22

Left: -22.406 ± 0.050 χ^2/NDF : 37575.6/47

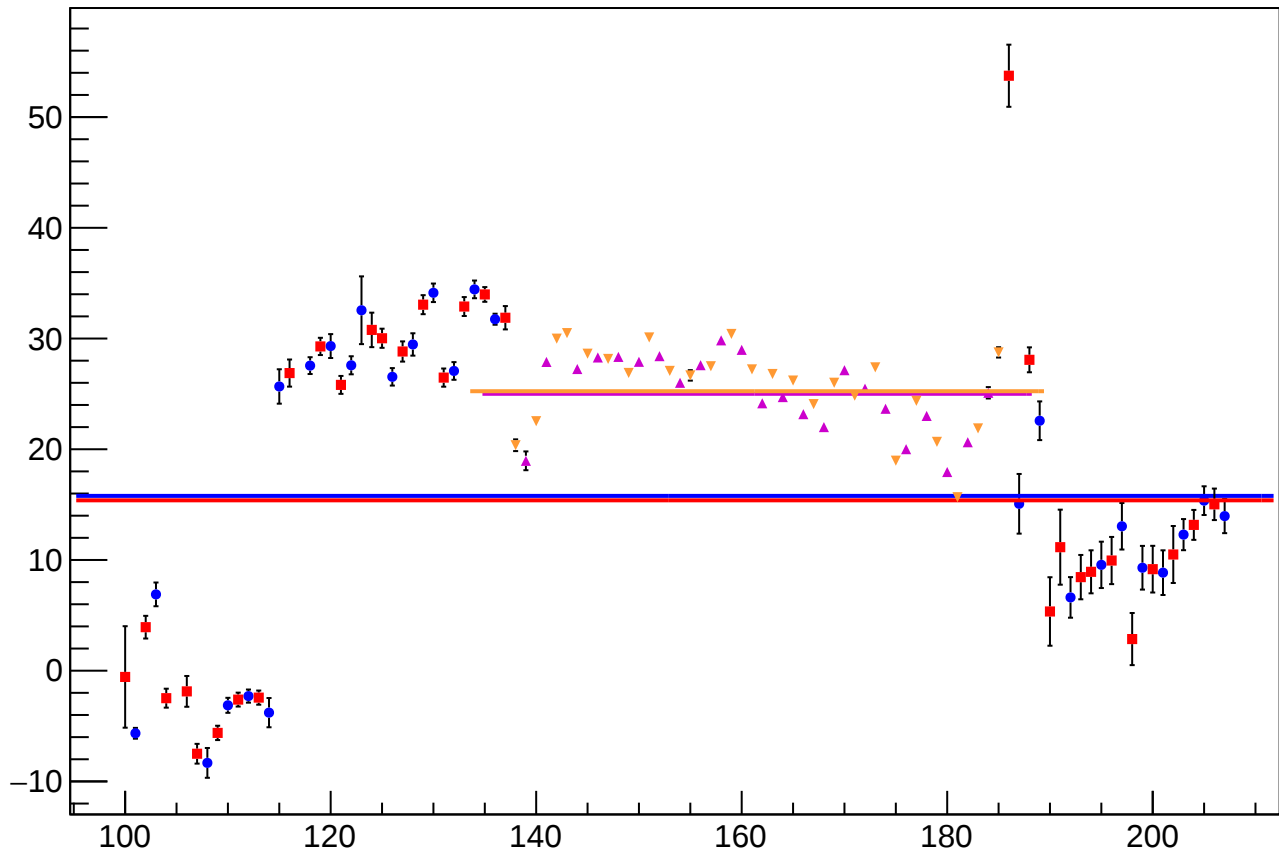
Right: -29.694 ± 0.152 χ^2/NDF : 5817.9/57

In: -22.716 ± 0.068 χ^2/NDF : 19733.4/49

Out: -23.516 ± 0.067 χ^2/NDF : 25655.6/55

All: -23.123 ± 0.048 χ^2/NDF : 45459.2/105

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.788 $\pm$ 0.182 χ^2 /NDF: 7626.0/26

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.387 $\pm$ 0.185 χ^2 /NDF: 7660.8/30

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF:2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

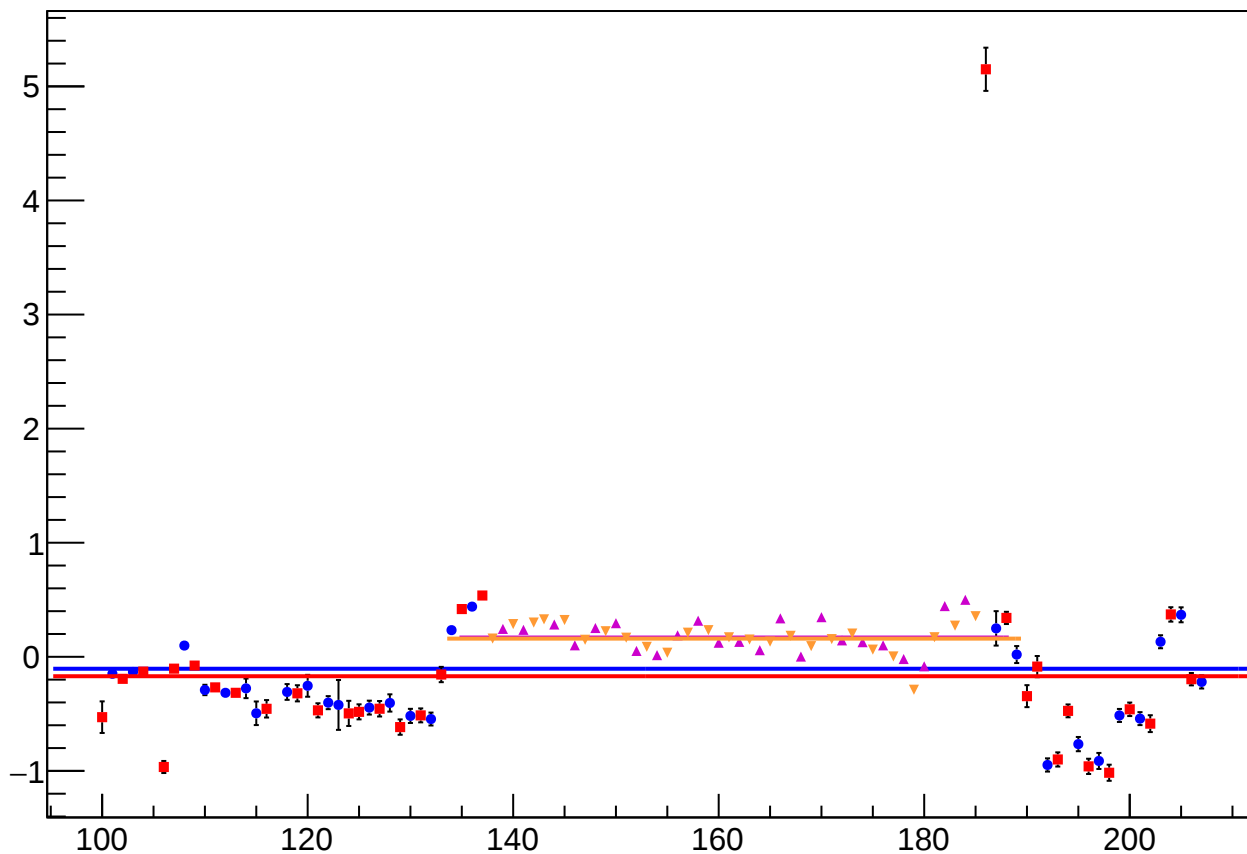
Right: 15.592 $\pm$ 0.130 χ^2 /NDF: 15289.3/57

In: 23.997 $\pm$ 0.060 χ^2 /NDF:12637.9/49

Out: 24.232 $\pm$ 0.059 χ^2 /NDF:13985.1/55

All: 24.116 $\pm$ 0.042 χ^2 /NDF: 26630.7/105

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.105 ± 0.009 $\chi^2/\text{NDF}: 1705.3/26$

Left Out: 0.159 ± 0.003 $\chi^2/\text{NDF}: 1864.2/24$

Right Out: -0.170 ± 0.009 $\chi^2/\text{NDF}: 2636.6/30$

Left In: 0.169 ± 0.003 $\chi^2/\text{NDF}: 2418.8/22$

Left: 0.164 ± 0.002 $\chi^2/\text{NDF}: 4288.4/47$

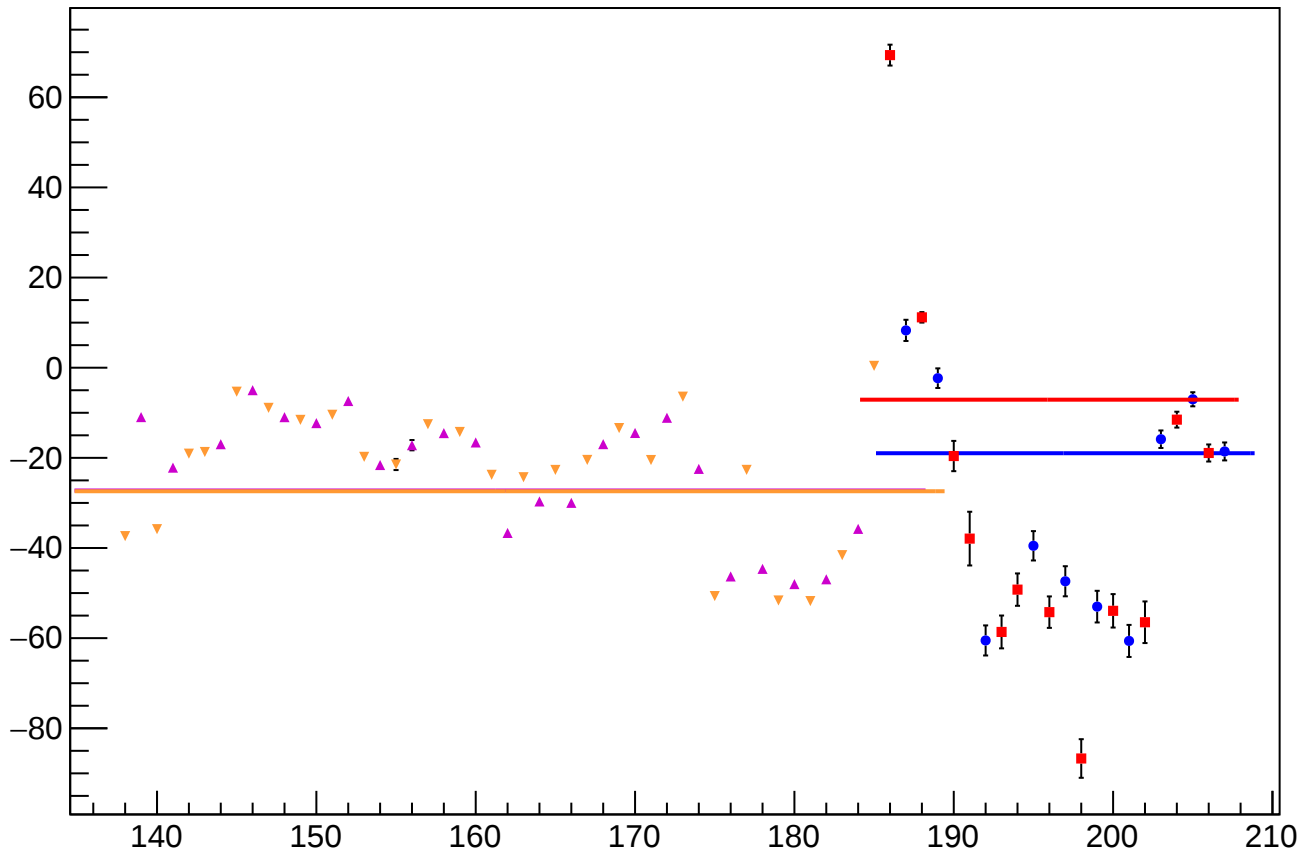
Right: -0.138 ± 0.006 $\chi^2/\text{NDF}: 4367.4/57$

In: 0.144 ± 0.003 $\chi^2/\text{NDF}: 4925.9/49$

Out: 0.130 ± 0.003 $\chi^2/\text{NDF}: 5681.4/55$

All: 0.137 ± 0.002 $\chi^2/\text{NDF}: 10620.3/105$

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -27.327 ± 0.098 $\chi^2/\text{NDF} = 26156.4/47$

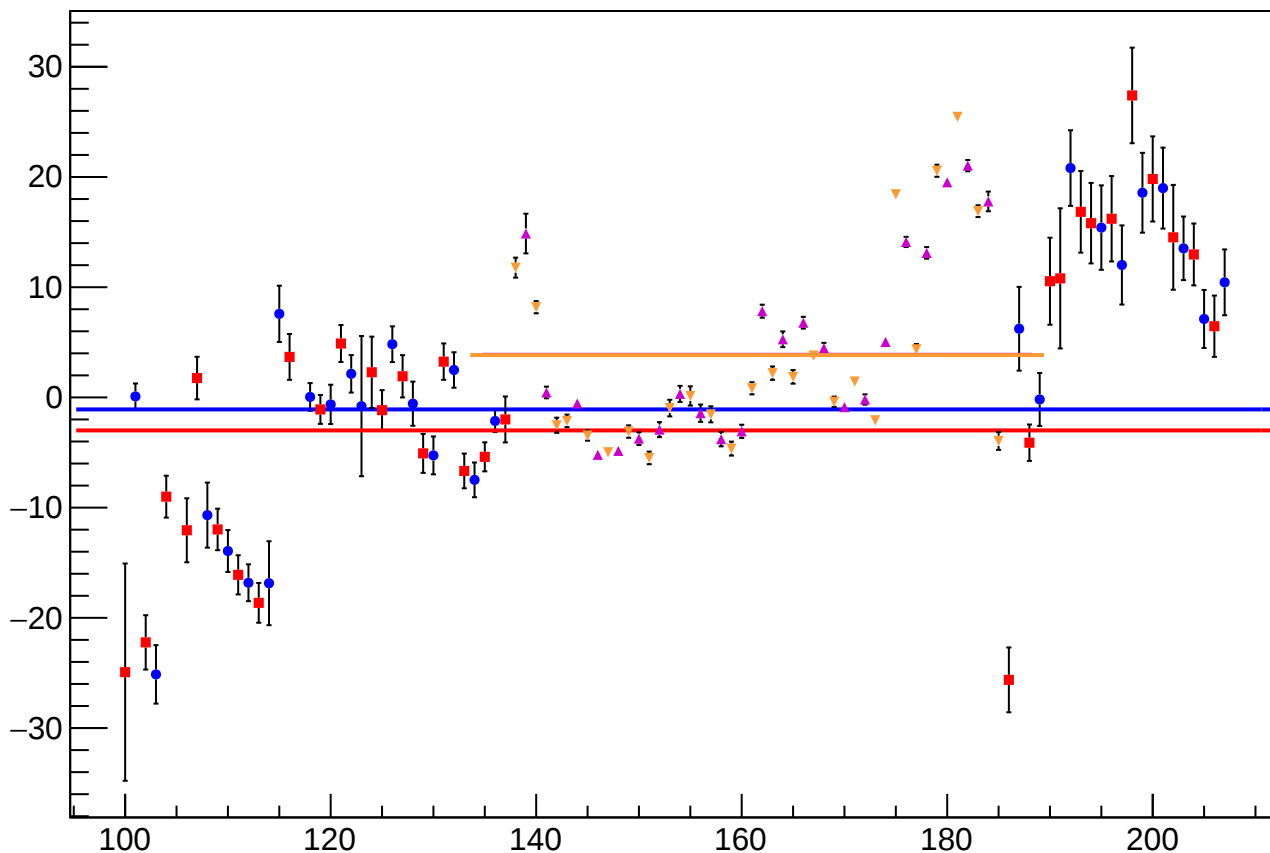
Right: -12.561 ± 0.512 $\chi^2/\text{NDF} = 3447.1/21$

In: -26.971 ± 0.137 $\chi^2/\text{NDF} = 12173.5/32$

Out: -26.655 ± 0.134 $\chi^2/\text{NDF} = 18228.6/36$

All: -26.810 ± 0.096 $\chi^2/\text{NDF} = 30404.8/69$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.088 ± 0.381 χ^2/NDF : 488.8/26

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.993 ± 0.387 χ^2/NDF : 610.8/30

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

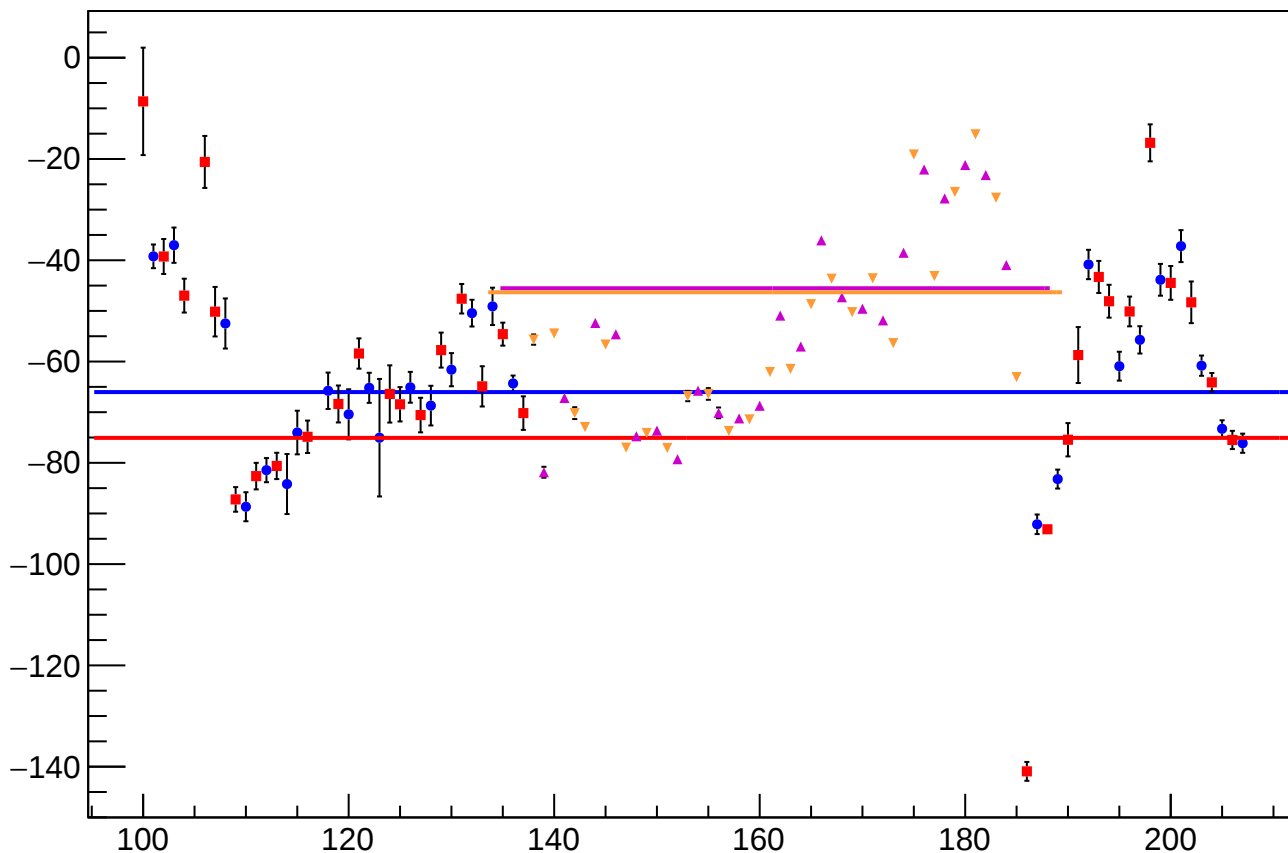
Right: -2.026 ± 0.271 χ^2/NDF : 1111.9/57

In: 3.476 ± 0.107 χ^2/NDF : 6068.9/49

Out: 3.336 ± 0.105 χ^2/NDF : 7839.3/55

All: 3.405 ± 0.075 χ^2/NDF : 13909.1/105

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.028 $\pm$ 0.511 χ^2 /NDF: 933.7/26

Left Out: -46.318 $\pm$ 0.138 χ^2 /NDF:20134.6/24

Right Out: -75.073 $\pm$ 0.474 χ^2 /NDF: 2928.4/30

Left In: -45.522 $\pm$ 0.140 χ^2 /NDF:17525.4/22

Left: -45.925 $\pm$ 0.098 χ^2 /NDF: 37676.5/47

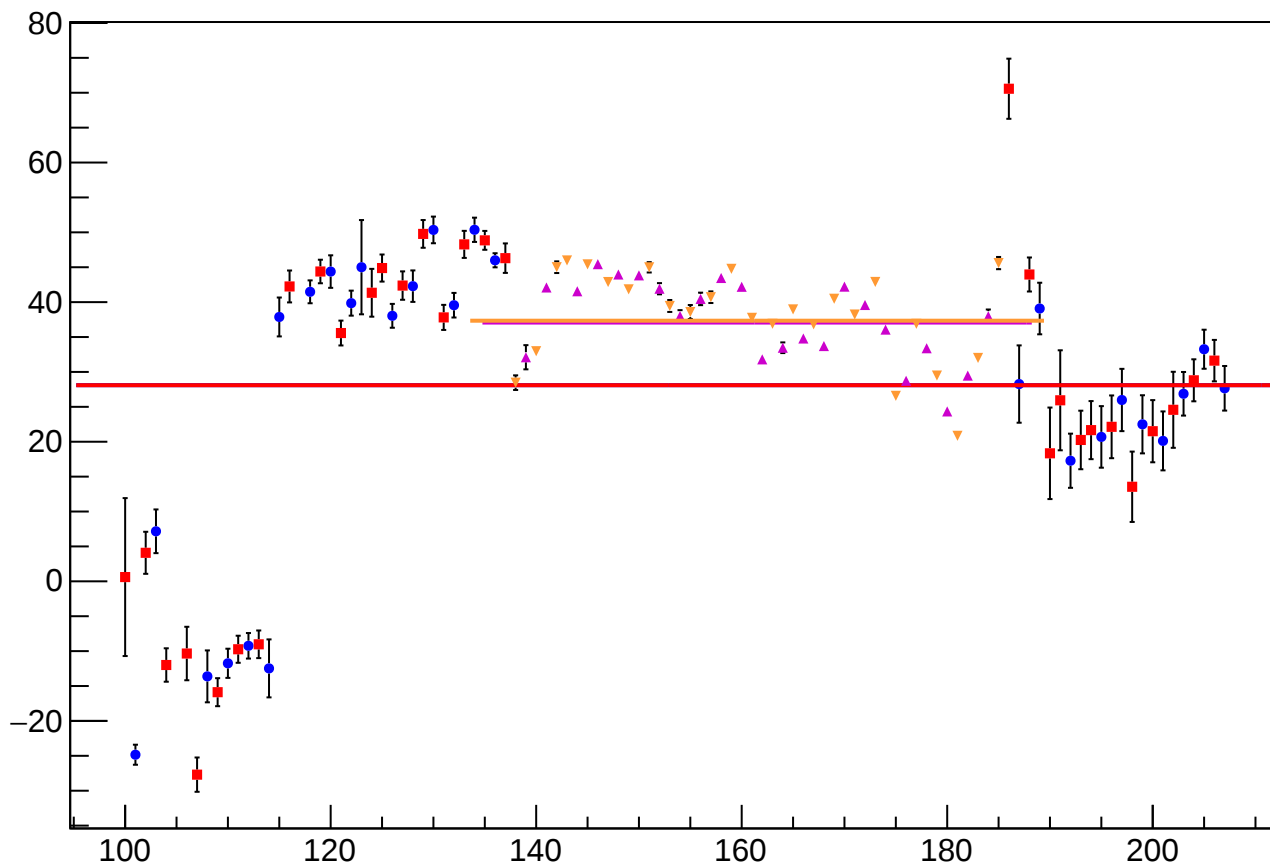
Right: -70.887 $\pm$ 0.347 χ^2 /NDF: 4030.8/57

In: -46.951 $\pm$ 0.135 χ^2 /NDF:19960.0/49

Out: -48.564 $\pm$ 0.132 χ^2 /NDF:26458.0/55

All: -47.772 $\pm$ 0.094 χ^2 /NDF: 46490.9/105

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.103+/-0.429 χ^2 /NDF: 3339.6/26

Left Out: 37.340+/-0.123 χ^2 /NDF:3149.1/24

Right Out: 28.097+/-0.442 χ^2 /NDF: 3195.5/30

Left In: 37.074+/-0.125 χ^2 /NDF:2397.3/22

Left: 37.209+/-0.088 χ^2 /NDF: 5548.7/47

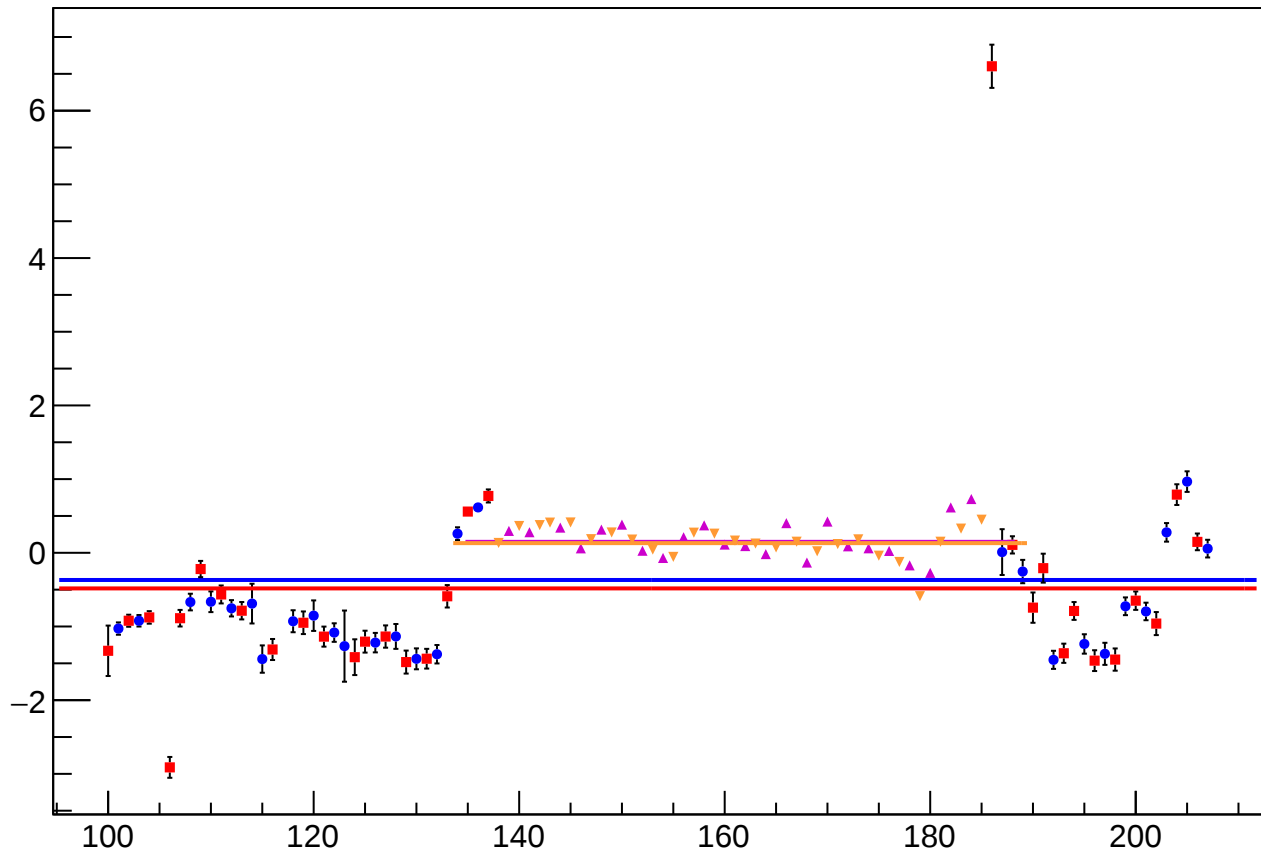
Right: 28.100+/-0.308 χ^2 /NDF: 6535.1/57

In: 36.371+/-0.120 χ^2 /NDF:6139.3/49

Out: 36.676+/-0.118 χ^2 /NDF:6751.0/55

All: 36.526+/-0.084 χ^2 /NDF: 12893.5/105

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.369 ± 0.022 χ^2/NDF : 1333.6/26

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.483 ± 0.022 χ^2/NDF : 2039.0/30

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

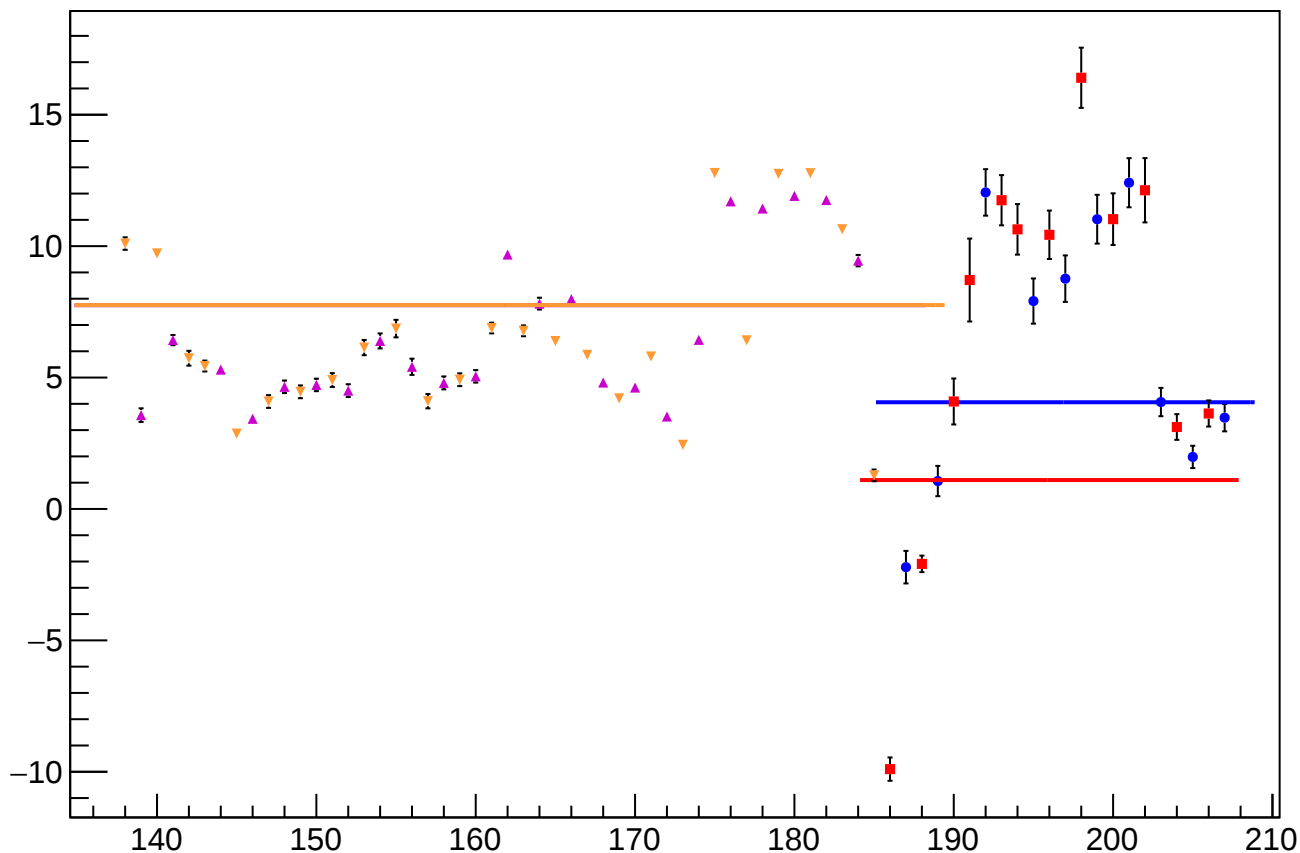
Right: -0.425 ± 0.015 χ^2/NDF : 3386.5/57

In: 0.115 ± 0.006 χ^2/NDF : 3673.9/49

Out: 0.093 ± 0.005 χ^2/NDF : 4206.9/55

All: 0.104 ± 0.004 χ^2/NDF : 7888.5/105

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.060 $\pm$ 0.202 χ^2 /NDF: 421.2/9

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 1.100 $\pm$ 0.180 χ^2 /NDF: 1480.9/11

Left In: 7.753 $\pm$ 0.035 χ^2 /NDF:8345.2/22

Left: 7.755 $\pm$ 0.025 χ^2 /NDF: 20073.8/47

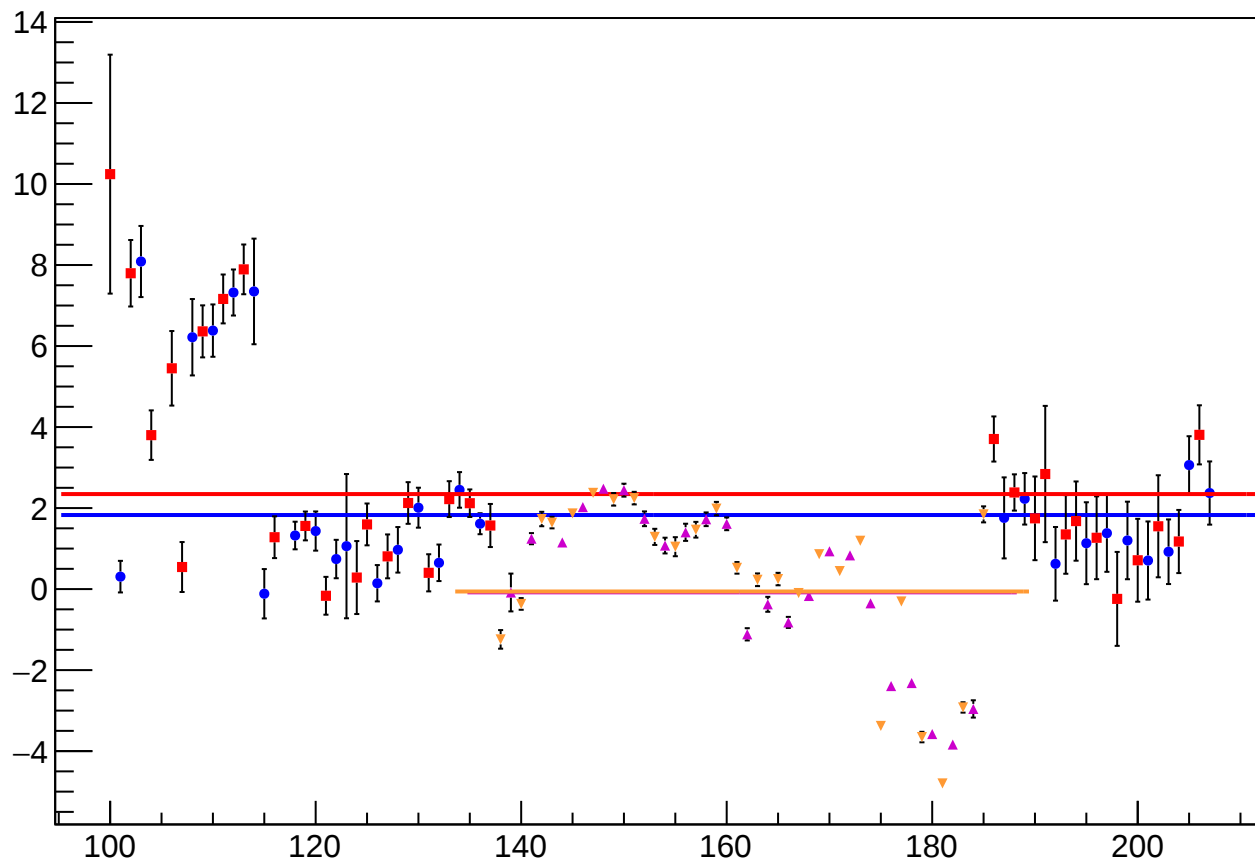
Right: 2.409 $\pm$ 0.134 χ^2 /NDF: 2022.0/21

In: 7.645 $\pm$ 0.035 χ^2 /NDF:9091.0/32

Out: 7.523 $\pm$ 0.034 χ^2 /NDF:14532.0/36

All: 7.582 $\pm$ 0.024 χ^2 /NDF: 23629.3/69

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.829 ± 0.107 $\chi^2/\text{NDF}: 302.7/26$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.346 ± 0.109 $\chi^2/\text{NDF}: 358.8/30$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

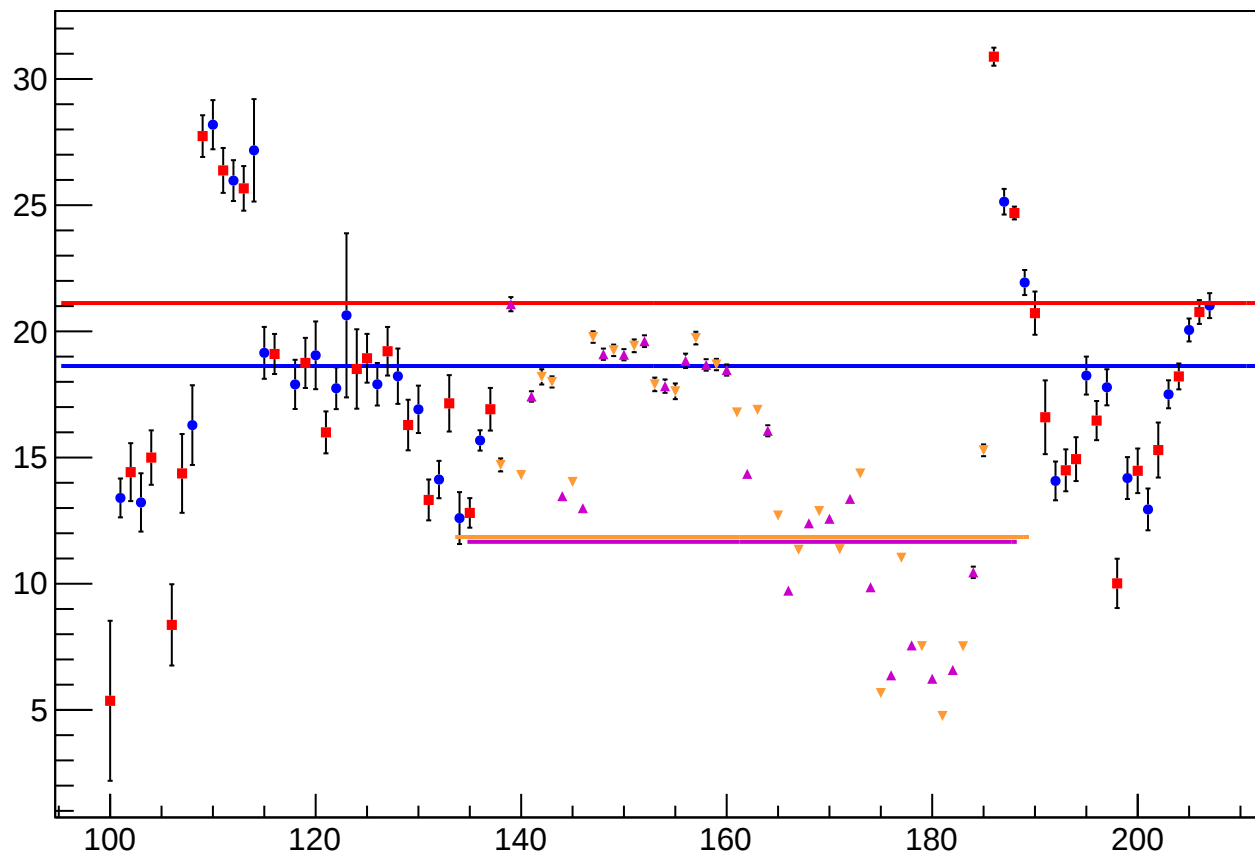
Right: 2.084 ± 0.076 $\chi^2/\text{NDF}: 673.0/57$

In: 0.043 ± 0.027 $\chi^2/\text{NDF}: 5577.9/49$

Out: 0.088 ± 0.027 $\chi^2/\text{NDF}: 6888.0/55$

All: 0.066 ± 0.019 $\chi^2/\text{NDF}: 12467.3/105$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.627 $\pm$ 0.141 χ^2 /NDF: 756.1/26

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.123 $\pm$ 0.127 χ^2 /NDF: 2067.9/30

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

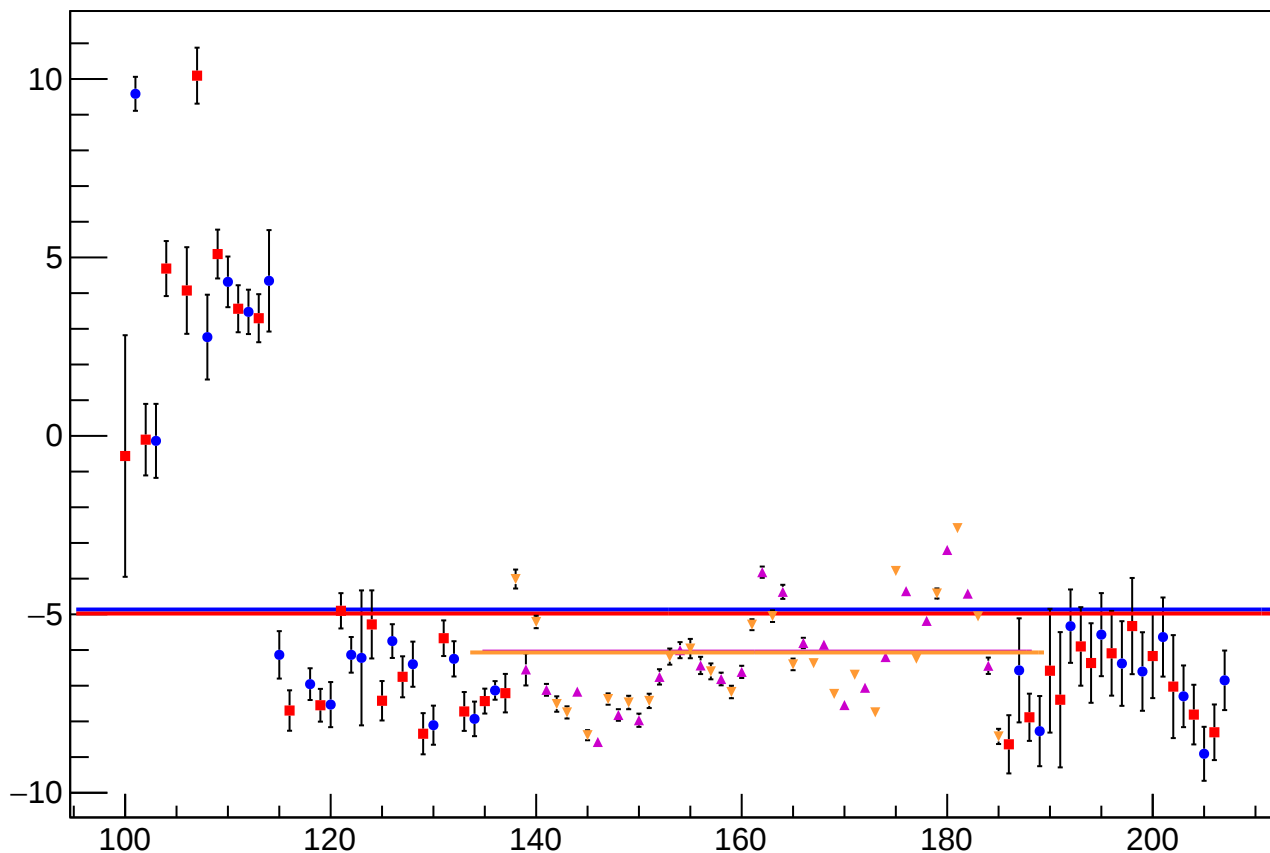
Right: 20.001 $\pm$ 0.094 χ^2 /NDF: 2997.2/57

In: 12.070 $\pm$ 0.034 χ^2 /NDF:19774.1/49

Out: 12.495 $\pm$ 0.033 χ^2 /NDF:26164.8/55

All: 12.287 $\pm$ 0.024 χ^2 /NDF: 46017.8/105

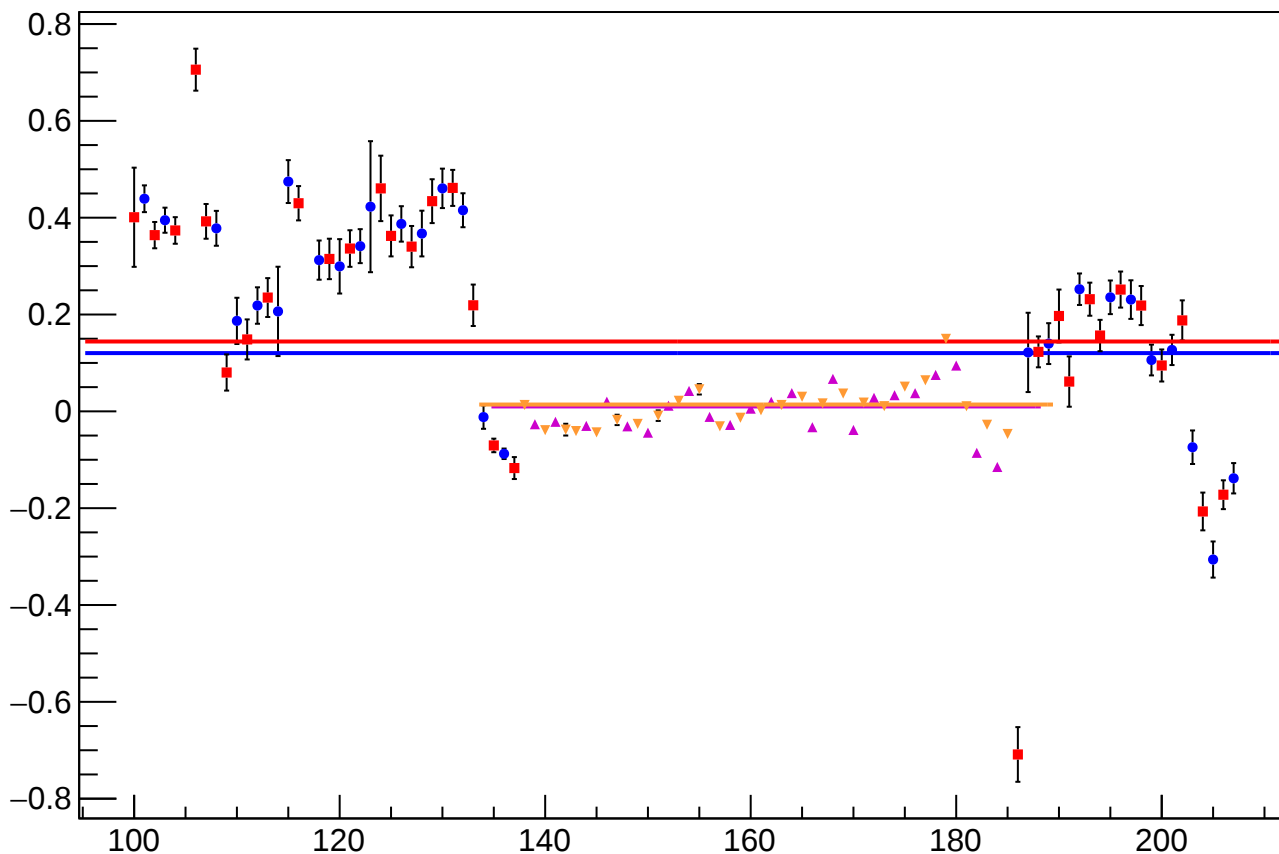
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.865 ± 0.121 χ^2/NDF : 1651.5/26
 Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24
 Right Out: -4.978 ± 0.124 χ^2/NDF : 1432.7/30
 Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47
 Right: -4.920 ± 0.087 χ^2/NDF : 3084.7/57
 In: -5.969 ± 0.031 χ^2/NDF : 4034.7/49
 Out: -6.004 ± 0.030 χ^2/NDF : 4176.9/55
 All: -5.987 ± 0.022 χ^2/NDF : 8212.2/105

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.120 $\pm$ 0.006 χ^2 /NDF: 1333.0/26

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.144 $\pm$ 0.006 χ^2 /NDF: 1473.8/30

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF: 1216.1/22

Left: 0.012 $\pm$ 0.001 χ^2 /NDF: 2176.2/47

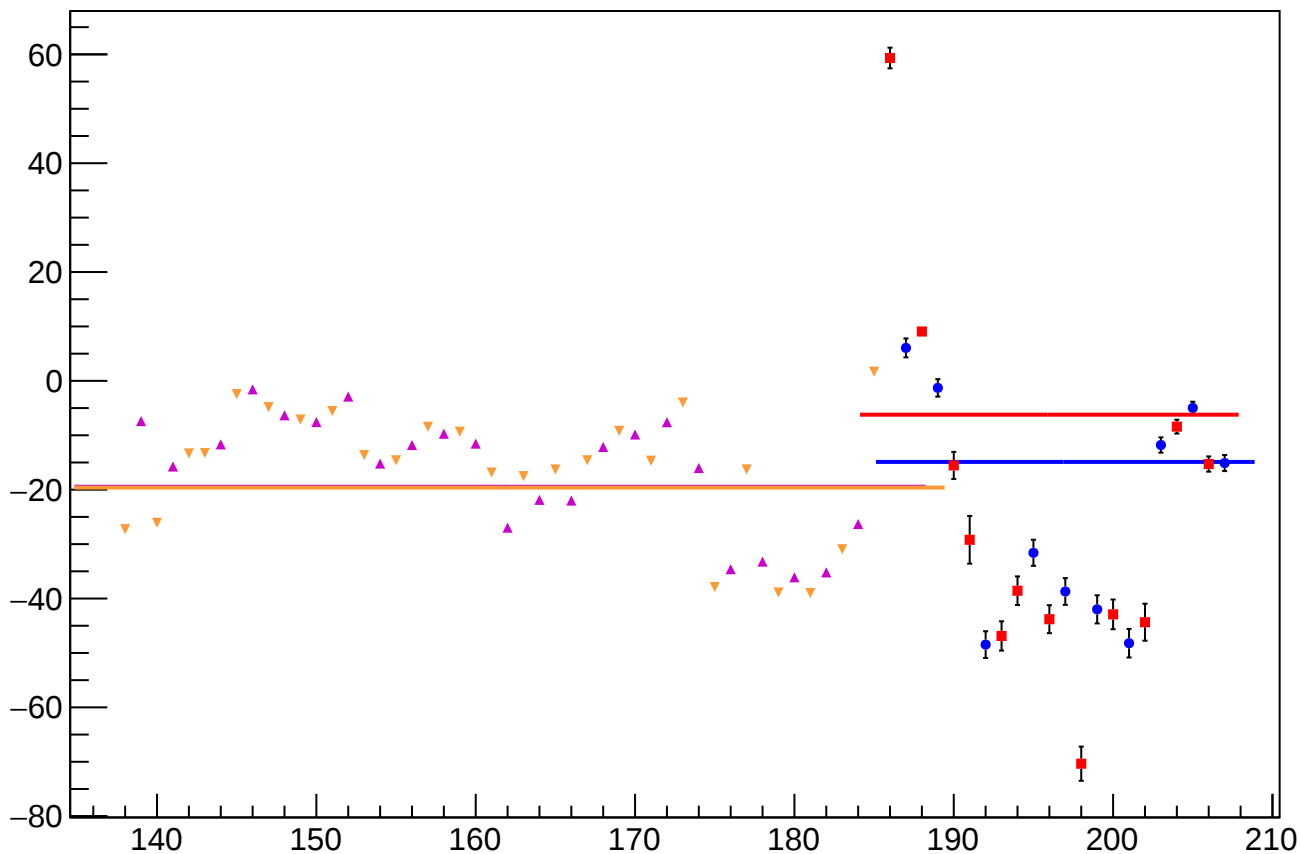
Right: 0.132 $\pm$ 0.004 χ^2 /NDF: 2814.6/57

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2866.8/49

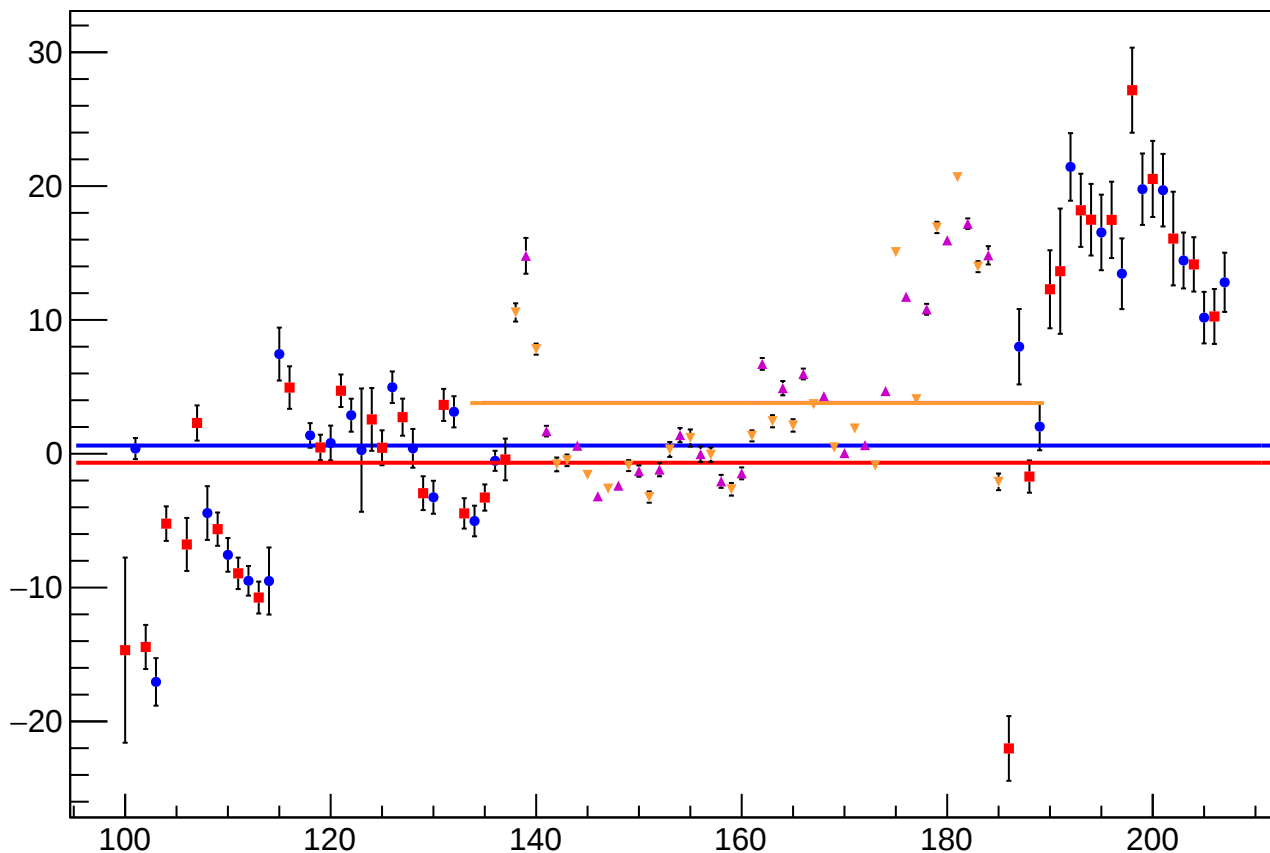
Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2858.2/55

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5730.3/105

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



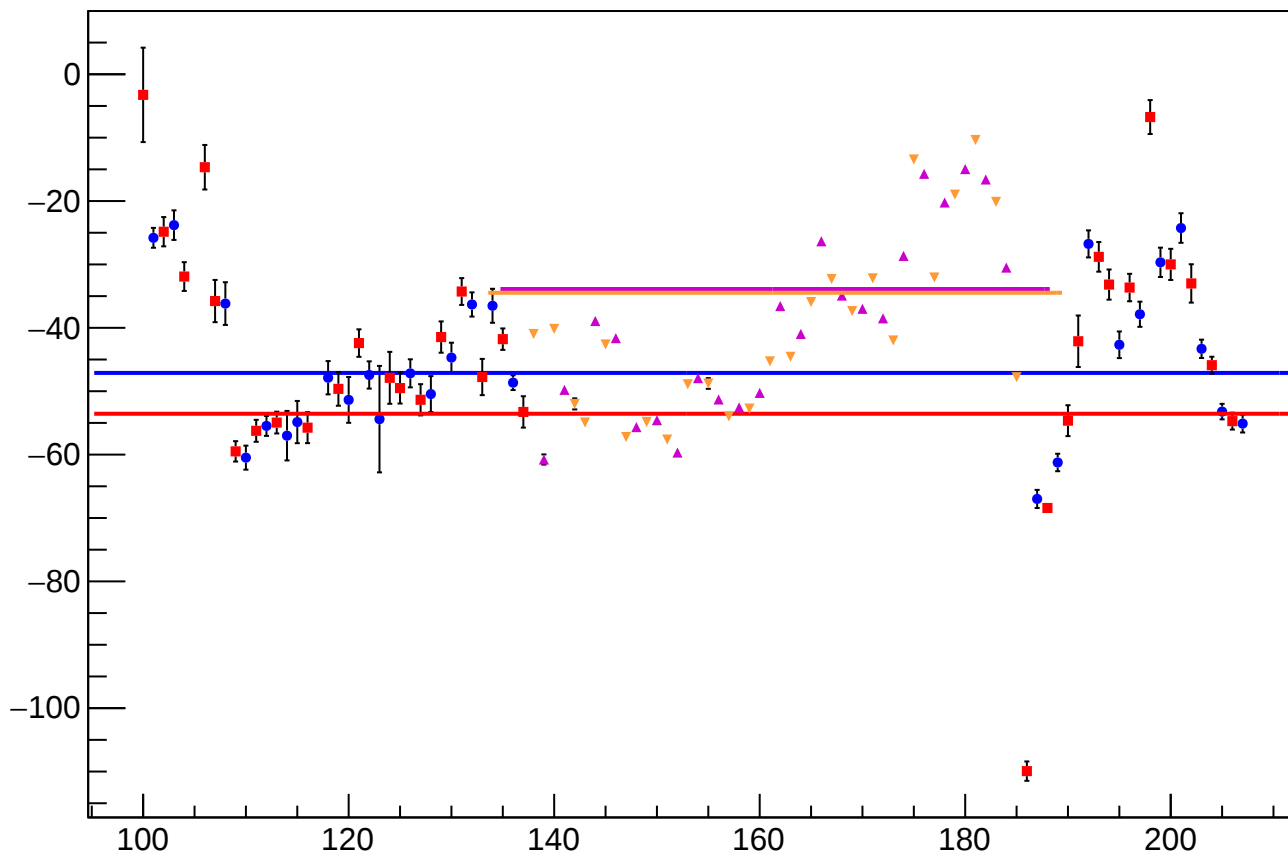
reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.613 ± 0.272 $\chi^2/\text{NDF}: 649.0/26$
 Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$
 Right Out: -0.672 ± 0.276 $\chi^2/\text{NDF}: 793.1/30$
 Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$
 Right: -0.020 ± 0.194 $\chi^2/\text{NDF}: 1453.0/57$
 In: 3.524 ± 0.080 $\chi^2/\text{NDF}: 6291.2/49$
 Out: 3.426 ± 0.079 $\chi^2/\text{NDF}: 8183.2/55$
 All: 3.474 ± 0.056 $\chi^2/\text{NDF}: 14475.2/105$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -34.177 ± 0.074 $\chi^2/\text{NDF} = 37851.2/47$

Right: -50.560 ± 0.251 $\chi^2/\text{NDF} = 4477.5/57$

In: -34.874 ± 0.101 $\chi^2/\text{NDF} = 19902.8/49$

Out: -36.072 ± 0.100 $\chi^2/\text{NDF} = 26266.7/55$

All: -35.483 ± 0.071 $\chi^2/\text{NDF} = 46240.8/105$

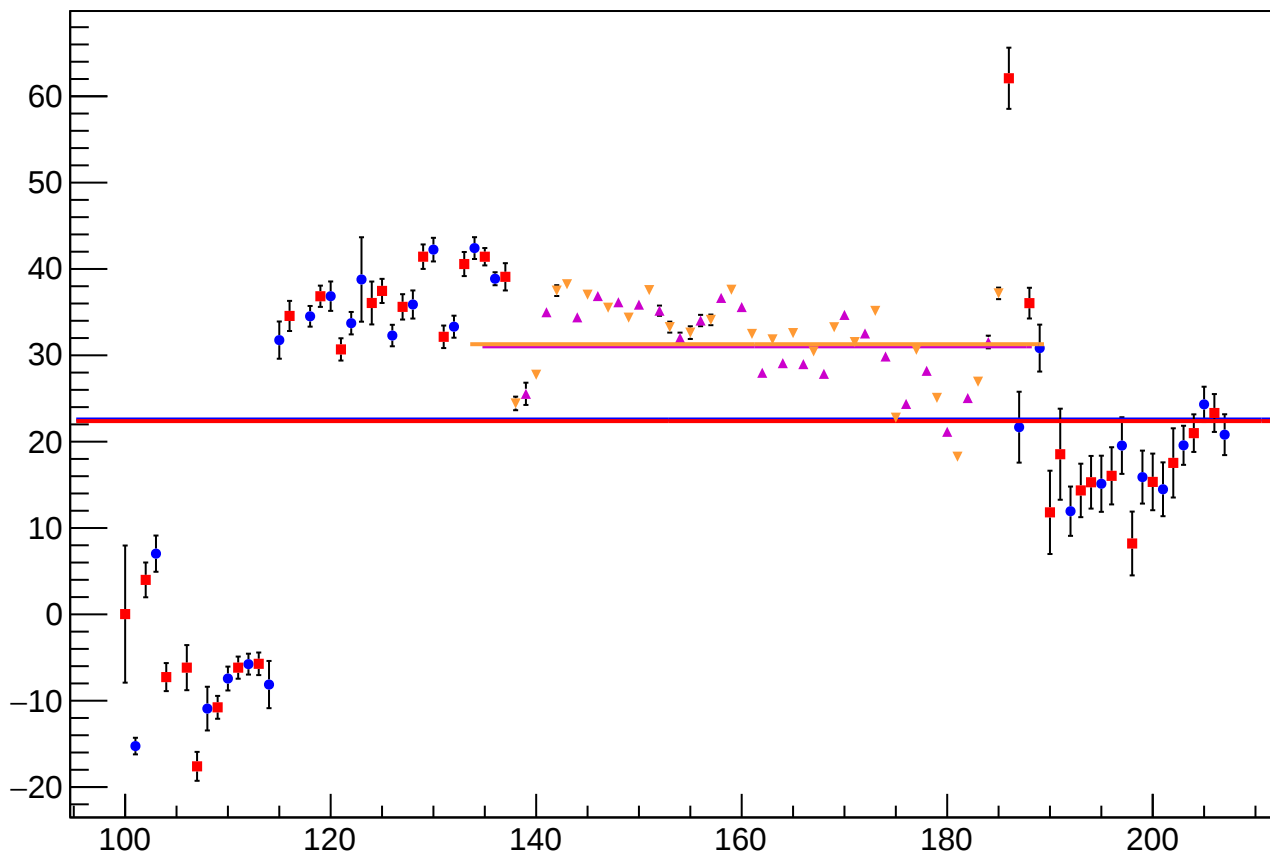
Right In: -47.113 ± 0.369 $\chi^2/\text{NDF} = 1071.2/26$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF} = 20196.3/24$

Right Out: -53.554 ± 0.343 $\chi^2/\text{NDF} = 3242.9/30$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF} = 17638.7/22$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.567 $\pm$ 0.307 χ^2 /NDF: 4362.0/26

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.381 $\pm$ 0.315 χ^2 /NDF: 4257.7/30

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

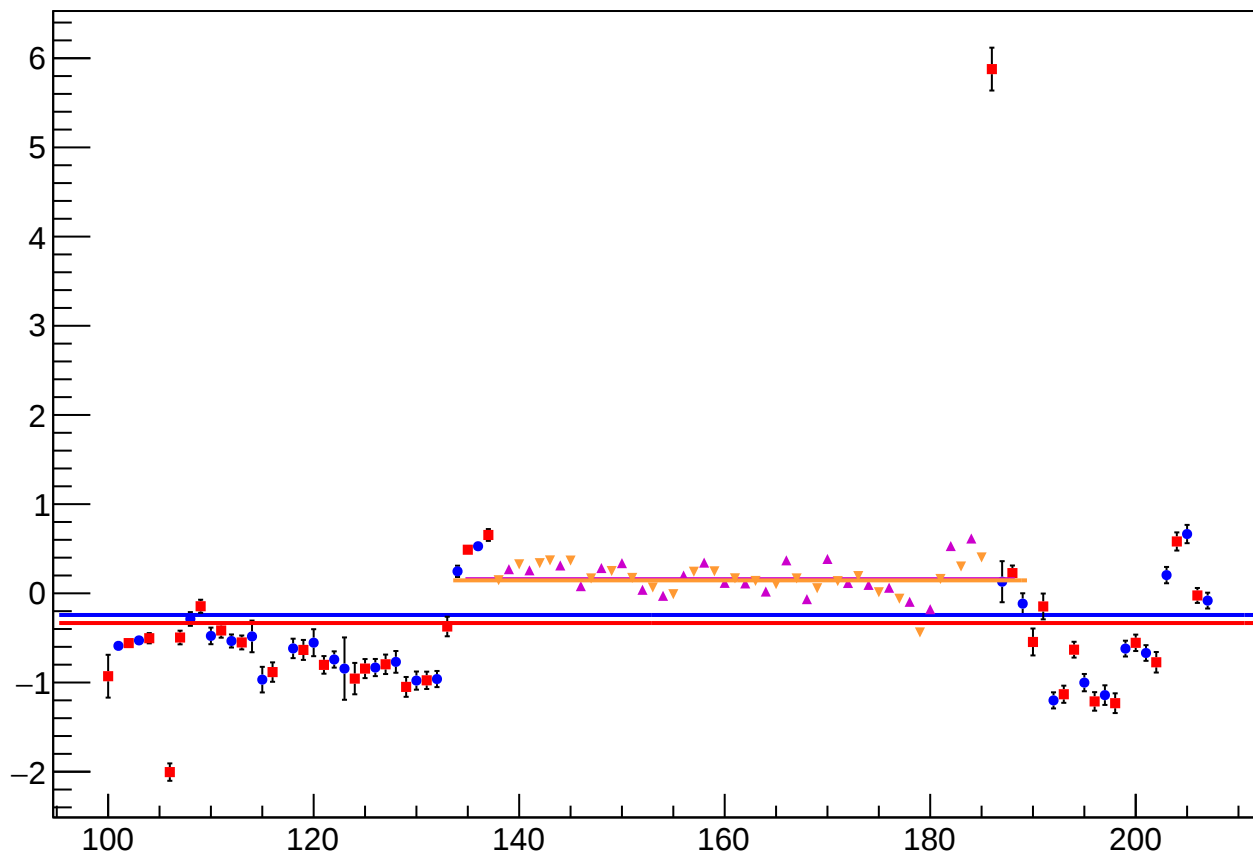
Right: 22.477 $\pm$ 0.220 χ^2 /NDF: 8619.9/57

In: 30.312 $\pm$ 0.090 χ^2 /NDF:7536.7/49

Out: 30.583 $\pm$ 0.089 χ^2 /NDF:8337.2/55

All: 30.449 $\pm$ 0.063 χ^2 /NDF: 15878.5/105

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.243 ± 0.015 χ^2/NDF : 1398.9/26

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.333 ± 0.016 χ^2/NDF : 2221.8/30

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

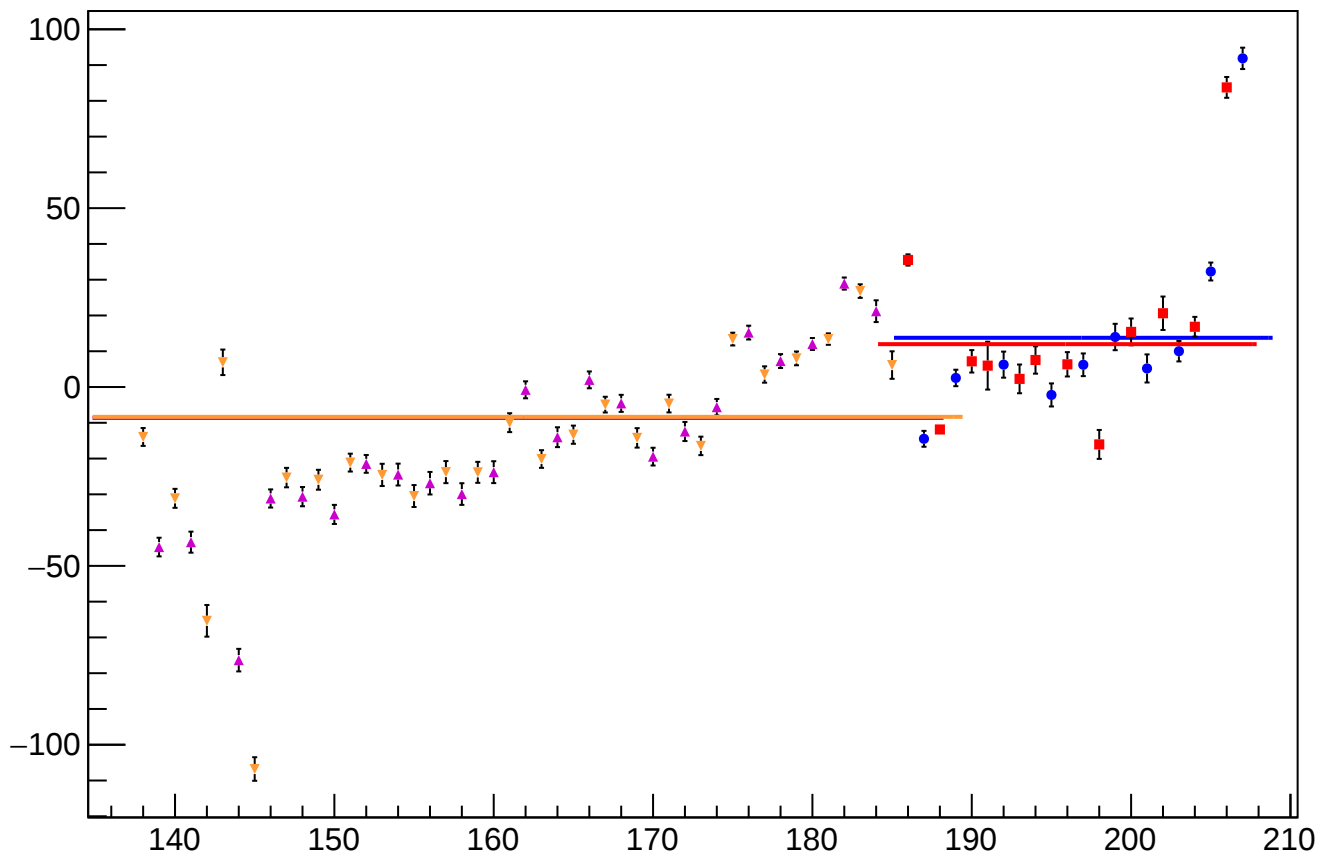
Right: -0.288 ± 0.011 χ^2/NDF : 3637.5/57

In: 0.130 ± 0.004 χ^2/NDF : 4032.0/49

Out: 0.113 ± 0.004 χ^2/NDF : 4676.2/55

All: 0.121 ± 0.003 χ^2/NDF : 8717.1/105

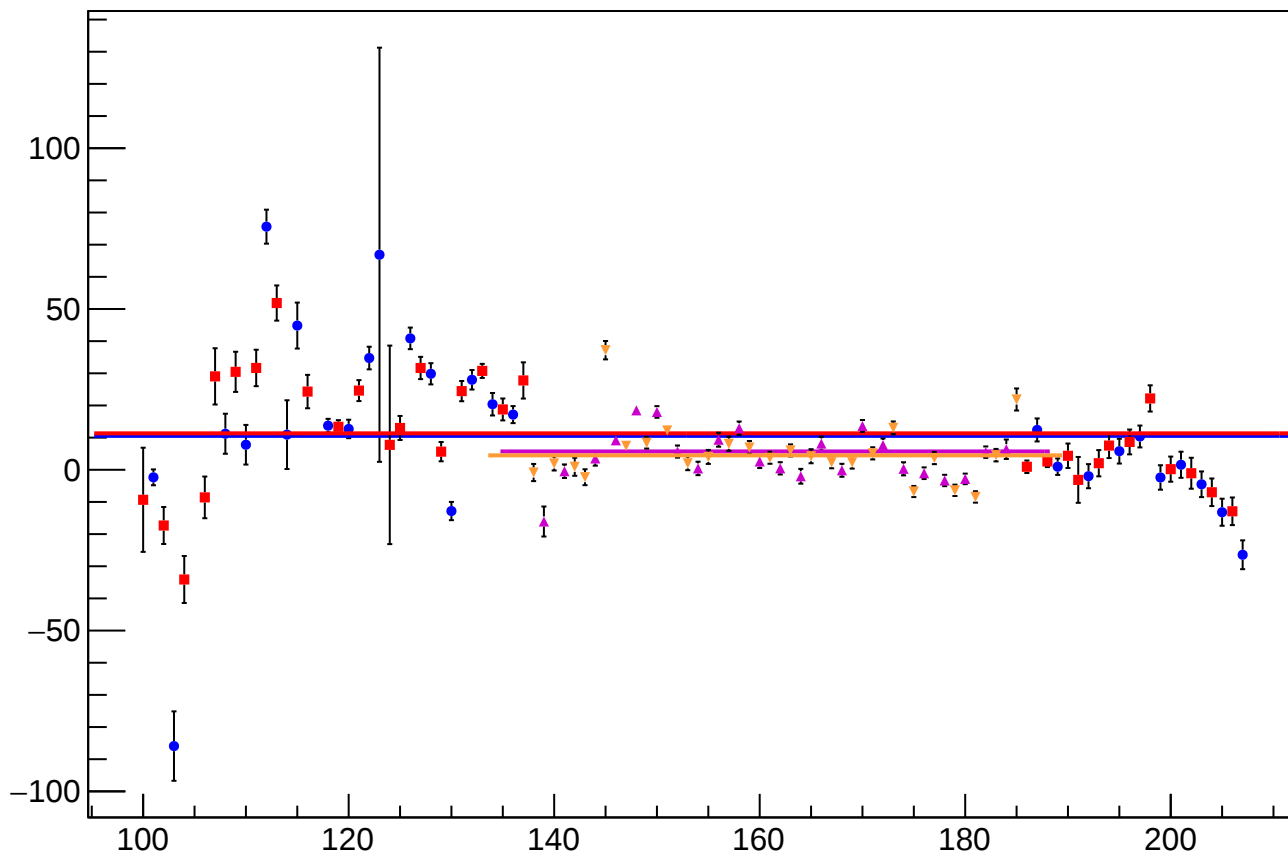
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.760 ± 0.915 $\chi^2/\text{NDF}: 964.5/9$
 Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$
 Right Out: 11.980 ± 0.740 $\chi^2/\text{NDF}: 1271.1/11$
 Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$
 Right: 12.685 ± 0.575 $\chi^2/\text{NDF}: 2237.9/21$
 In: -3.381 ± 0.444 $\chi^2/\text{NDF}: 3647.5/32$
 Out: -1.977 ± 0.414 $\chi^2/\text{NDF}: 4014.5/36$
 All: -2.631 ± 0.303 $\chi^2/\text{NDF}: 7667.4/69$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.555 $\pm$ 0.689 χ^2 /NDF: 721.4/26

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 11.331 $\pm$ 0.646 χ^2 /NDF: 467.3/30

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF:324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

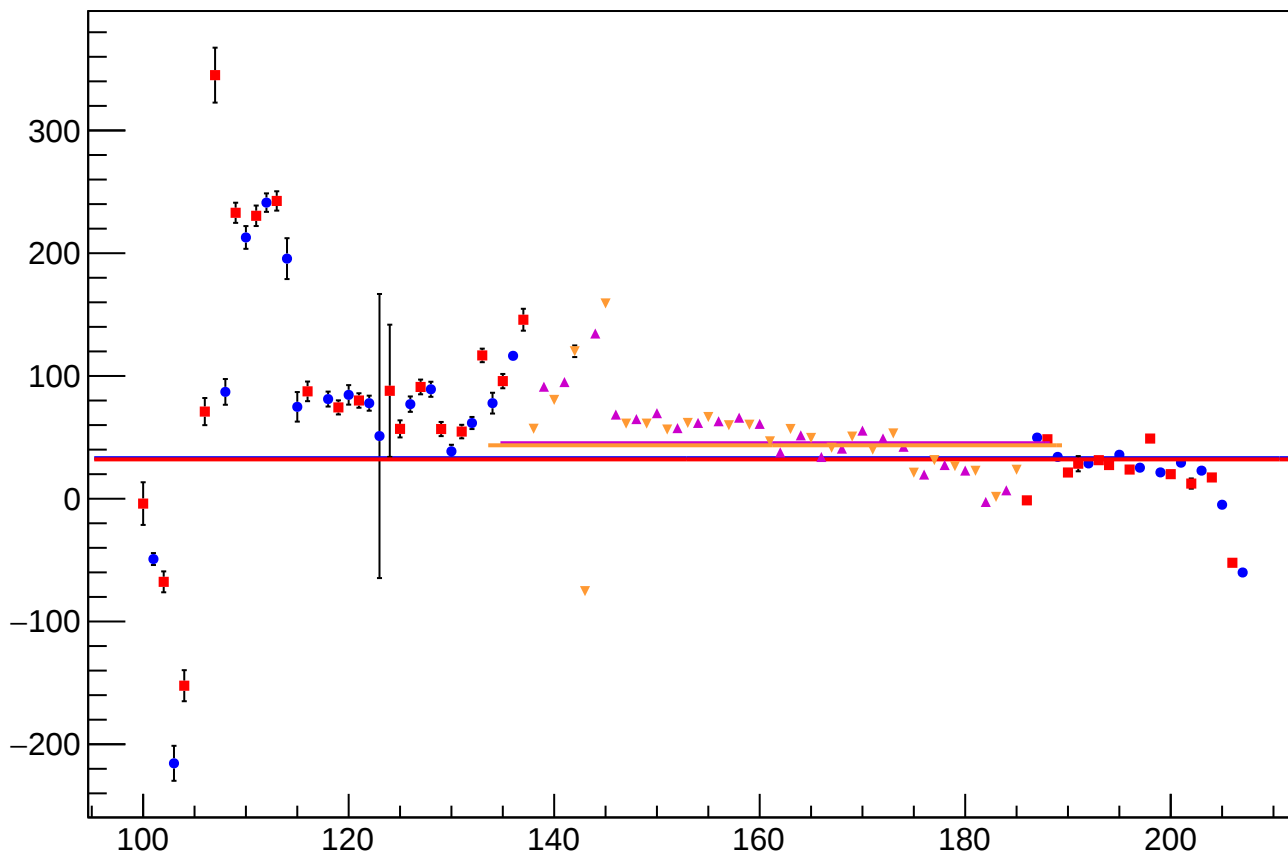
Right: 10.968 $\pm$ 0.471 χ^2 /NDF: 1189.4/57

In: 6.947 $\pm$ 0.349 χ^2 /NDF:1082.3/49

Out: 6.329 $\pm$ 0.335 χ^2 /NDF:921.3/55

All: 6.626 $\pm$ 0.242 χ^2 /NDF: 2005.3/105

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.046 $\pm$ 0.731 χ^2 /NDF: 4032.6/26

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF:3830.7/24

Right Out: 32.045 $\pm$ 0.589 χ^2 /NDF: 5280.3/30

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF:3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

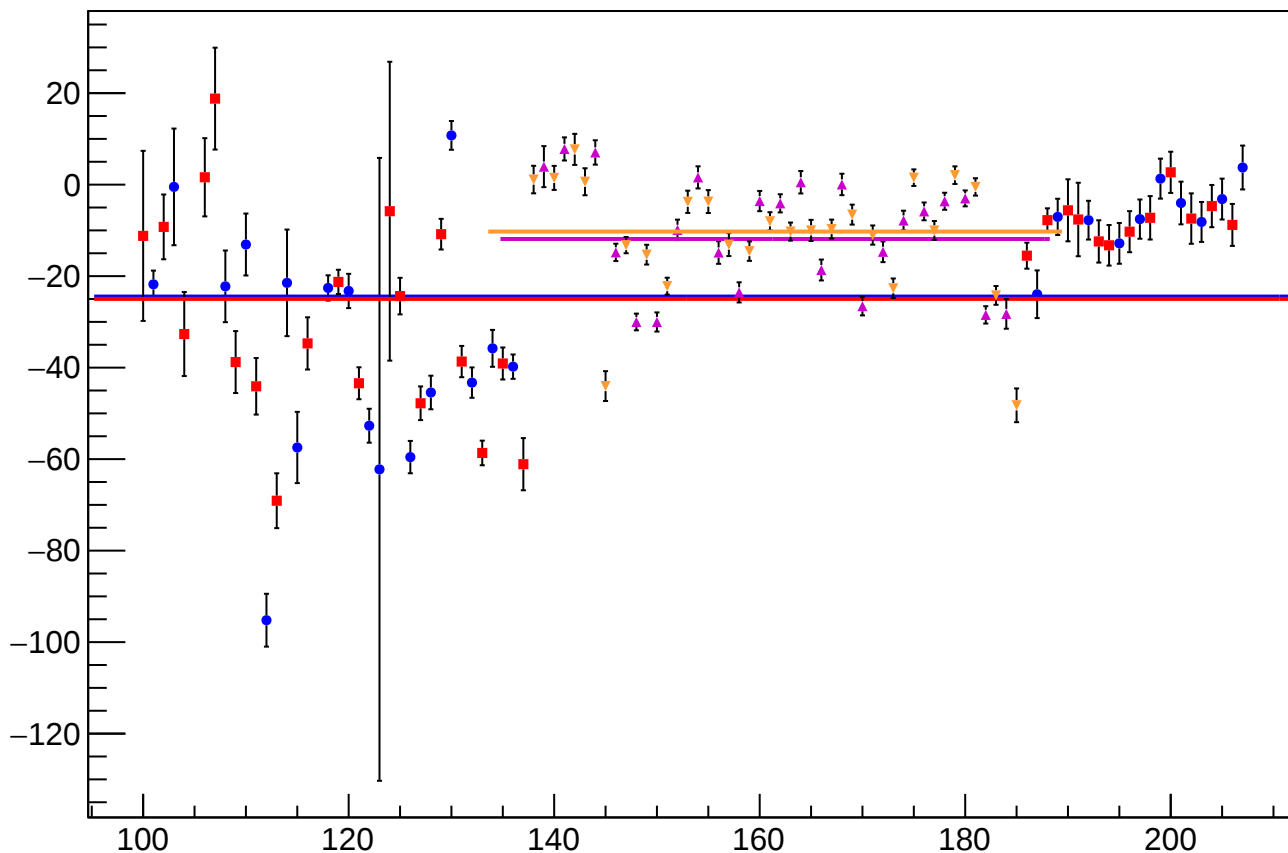
Right: 32.439 $\pm$ 0.459 χ^2 /NDF: 9314.1/57

In: 41.286 $\pm$ 0.415 χ^2 /NDF:7268.9/49

Out: 38.735 $\pm$ 0.380 χ^2 /NDF:9332.3/55

All: 39.900 $\pm$ 0.280 χ^2 /NDF: 16621.8/105

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.466 ± 0.806 χ^2/NDF : 746.6/26

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -24.971 ± 0.784 χ^2/NDF : 604.7/30

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

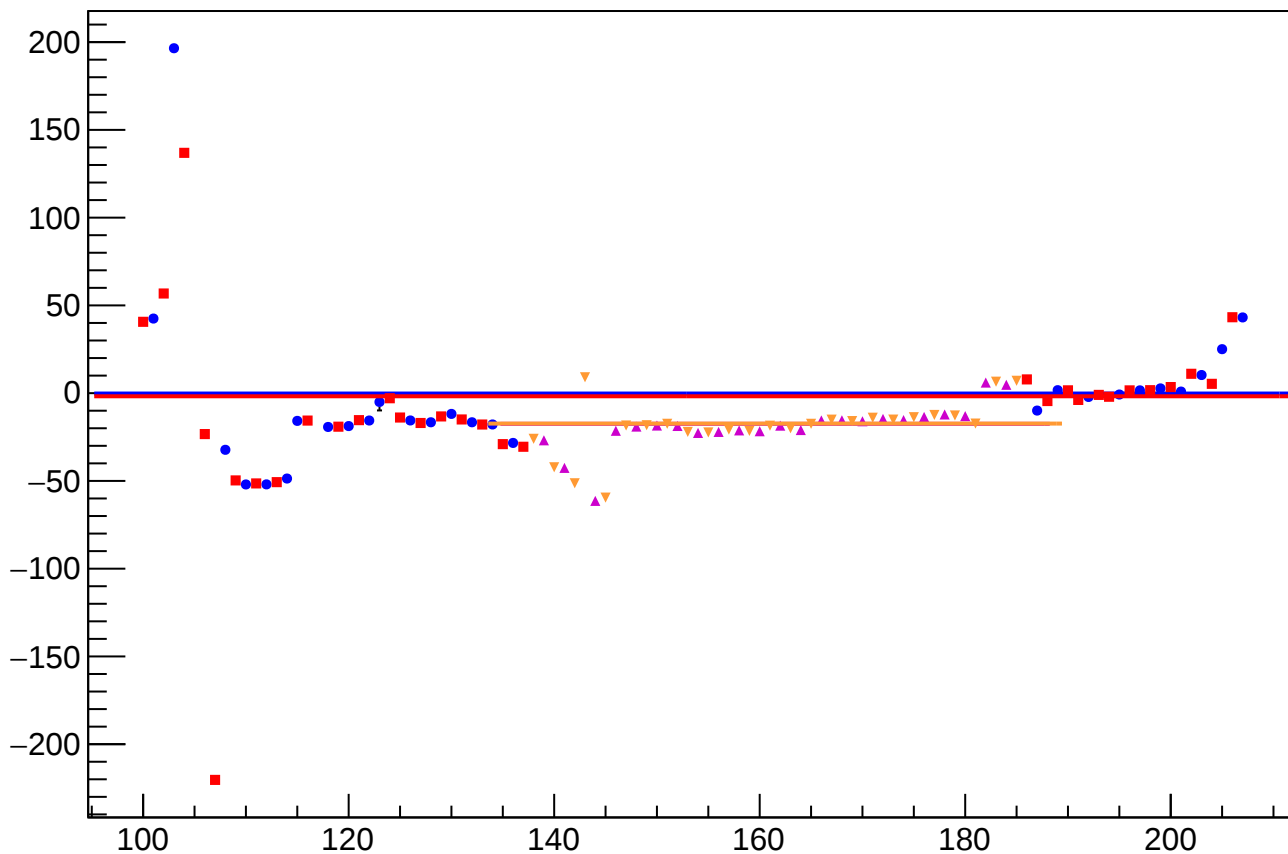
Right: -24.726 ± 0.562 χ^2/NDF : 1351.6/57

In: -14.929 ± 0.397 χ^2/NDF : 1597.6/49

Out: -13.836 ± 0.386 χ^2/NDF : 1424.0/55

All: -14.368 ± 0.277 χ^2/NDF : 3025.5/105

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.038 χ^2/NDF : 673280.8/26

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.781 ± 0.036 χ^2/NDF : 670996.2/30

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

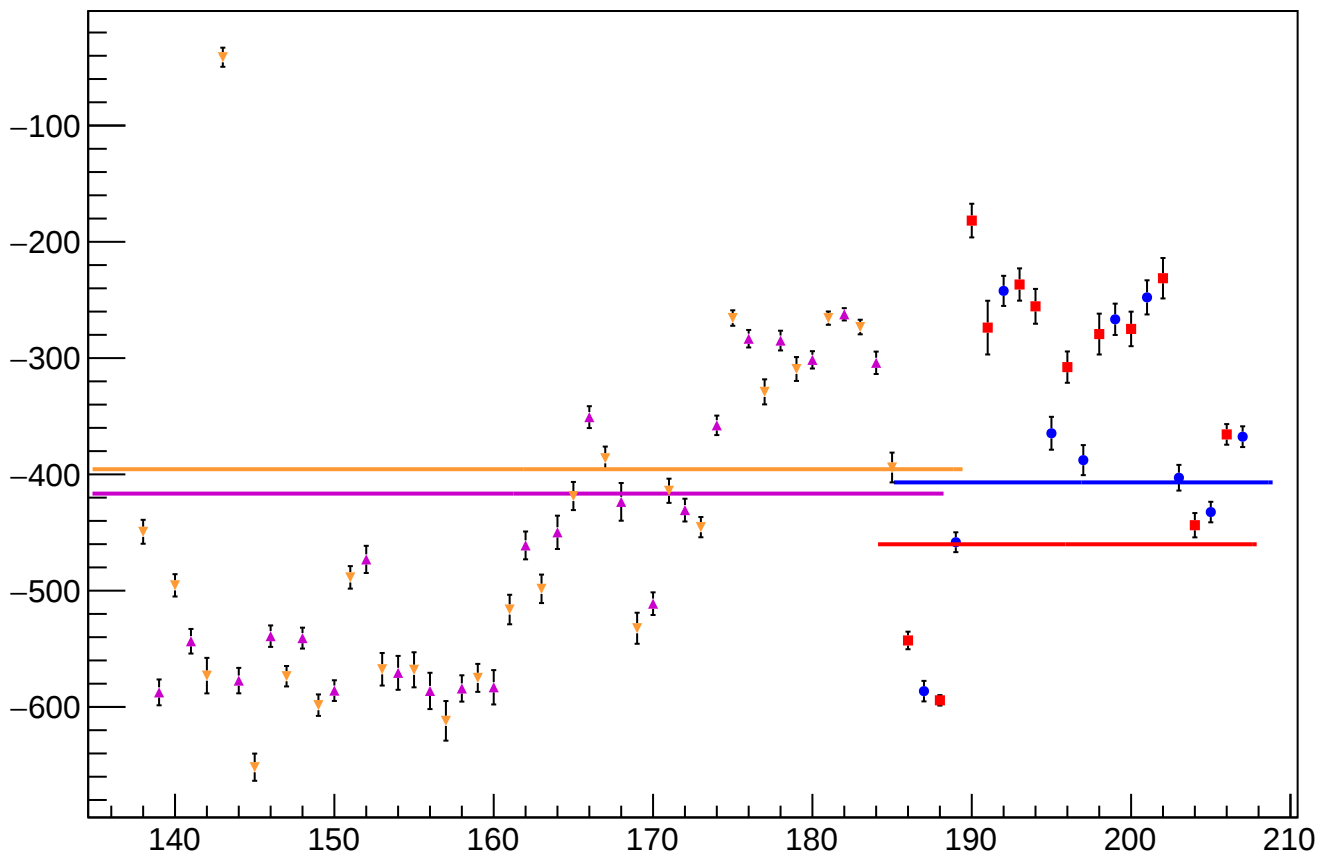
Right: -1.030 ± 0.026 χ^2/NDF : 1345162.1/57

In: -13.530 ± 0.018 χ^2/NDF : 1092576.1/49

Out: -13.620 ± 0.018 χ^2/NDF : 1134947.3/55

All: -13.575 ± 0.013 χ^2/NDF : 2227535.9/105

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -406.891 ± 3.385 χ^2/NDF : 877.5/9

Left Out: -395.547 ± 1.953 χ^2/NDF : 5946.5/24

Right Out: -460.104 ± 2.863 χ^2/NDF : 2574.1/11

Left In: -416.521 ± 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 ± 1.399 χ^2/NDF : 9919.7/47

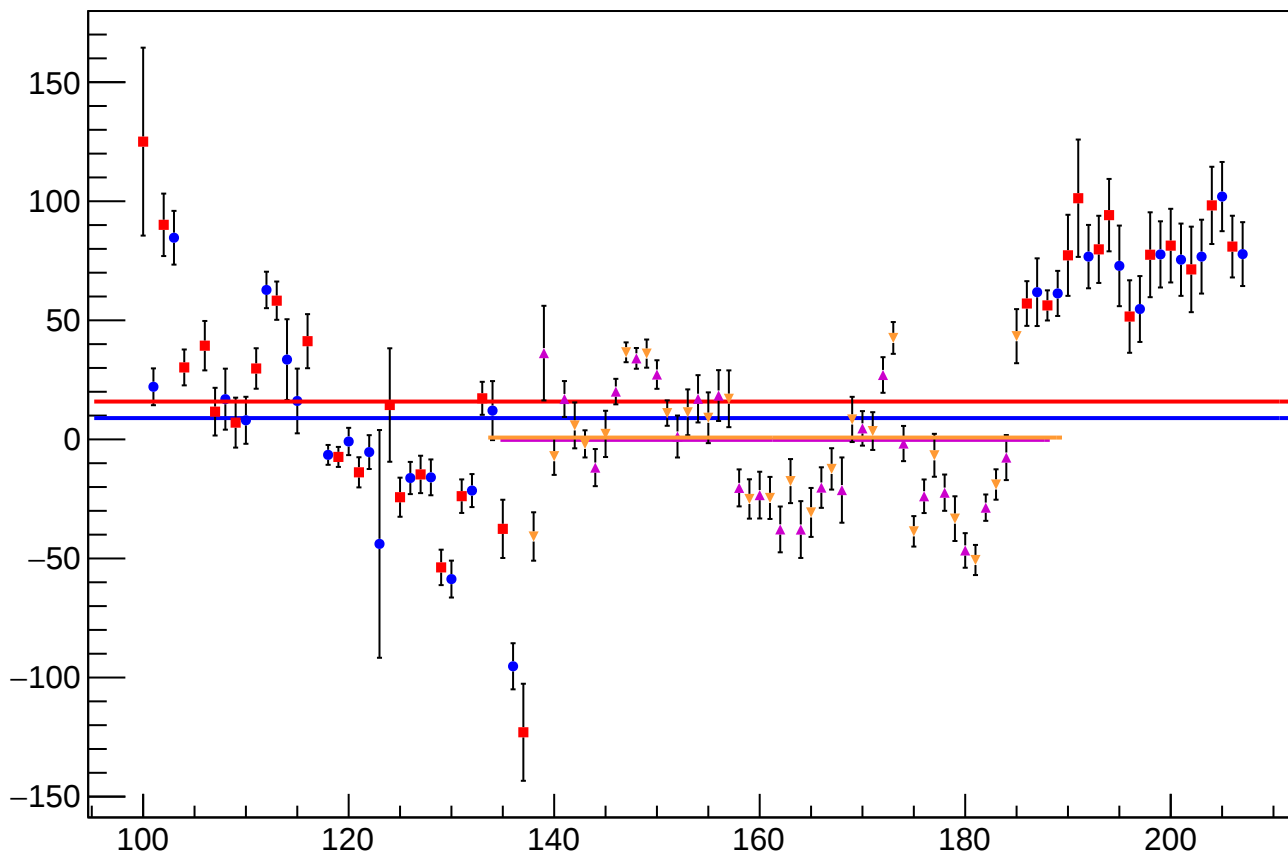
Right: -437.913 ± 2.186 χ^2/NDF : 3595.6/21

In: -414.021 ± 1.725 χ^2/NDF : 4800.4/32

Out: -416.054 ± 1.614 χ^2/NDF : 8867.6/36

All: -415.105 ± 1.178 χ^2/NDF : 13668.8/69

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.949 ± 1.757 $\chi^2/\text{NDF}: 584.0/26$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 15.891 ± 1.697 $\chi^2/\text{NDF}: 589.6/30$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

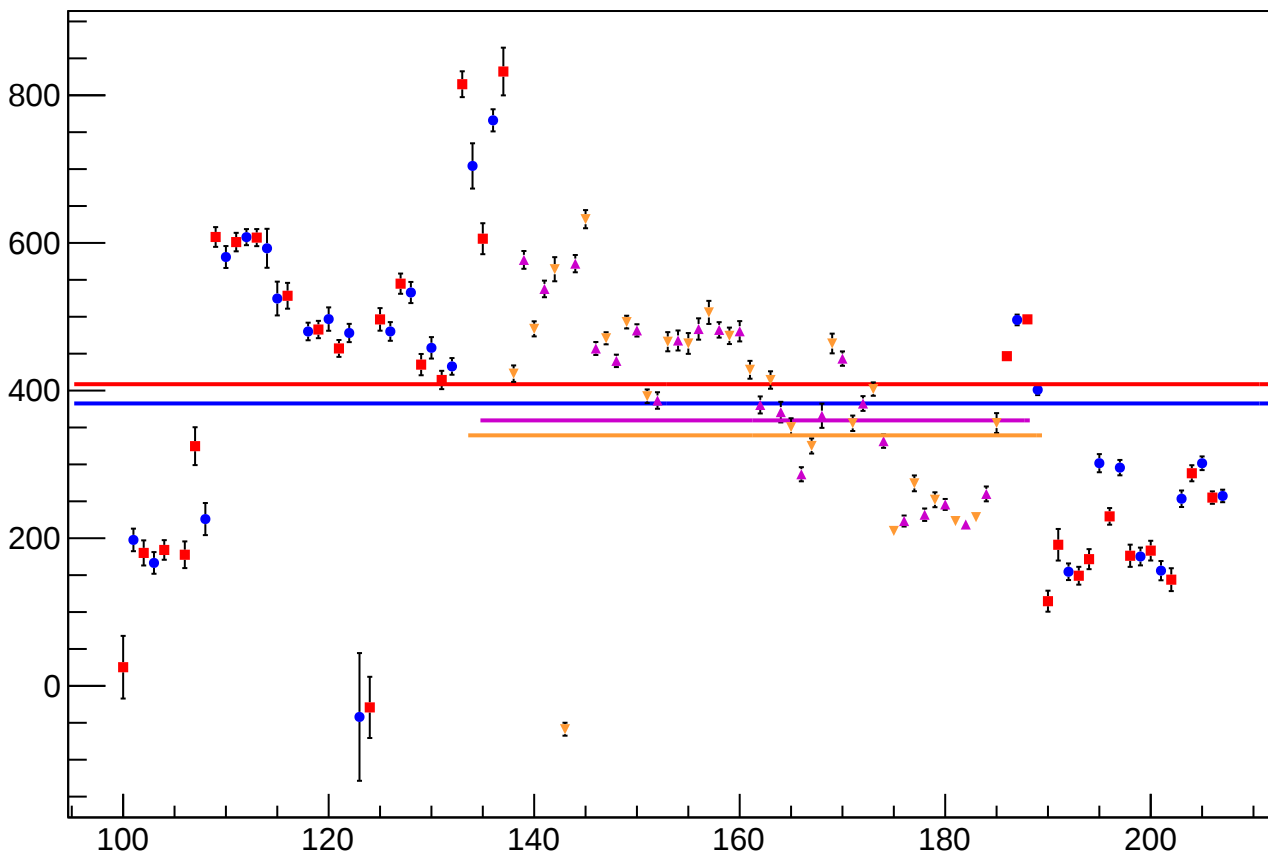
Right: 12.542 ± 1.221 $\chi^2/\text{NDF}: 1181.7/57$

In: 3.875 ± 1.173 $\chi^2/\text{NDF}: 859.8/49$

Out: 7.416 ± 1.125 $\chi^2/\text{NDF}: 984.2/55$

All: 5.719 ± 0.812 $\chi^2/\text{NDF}: 1848.8/105$

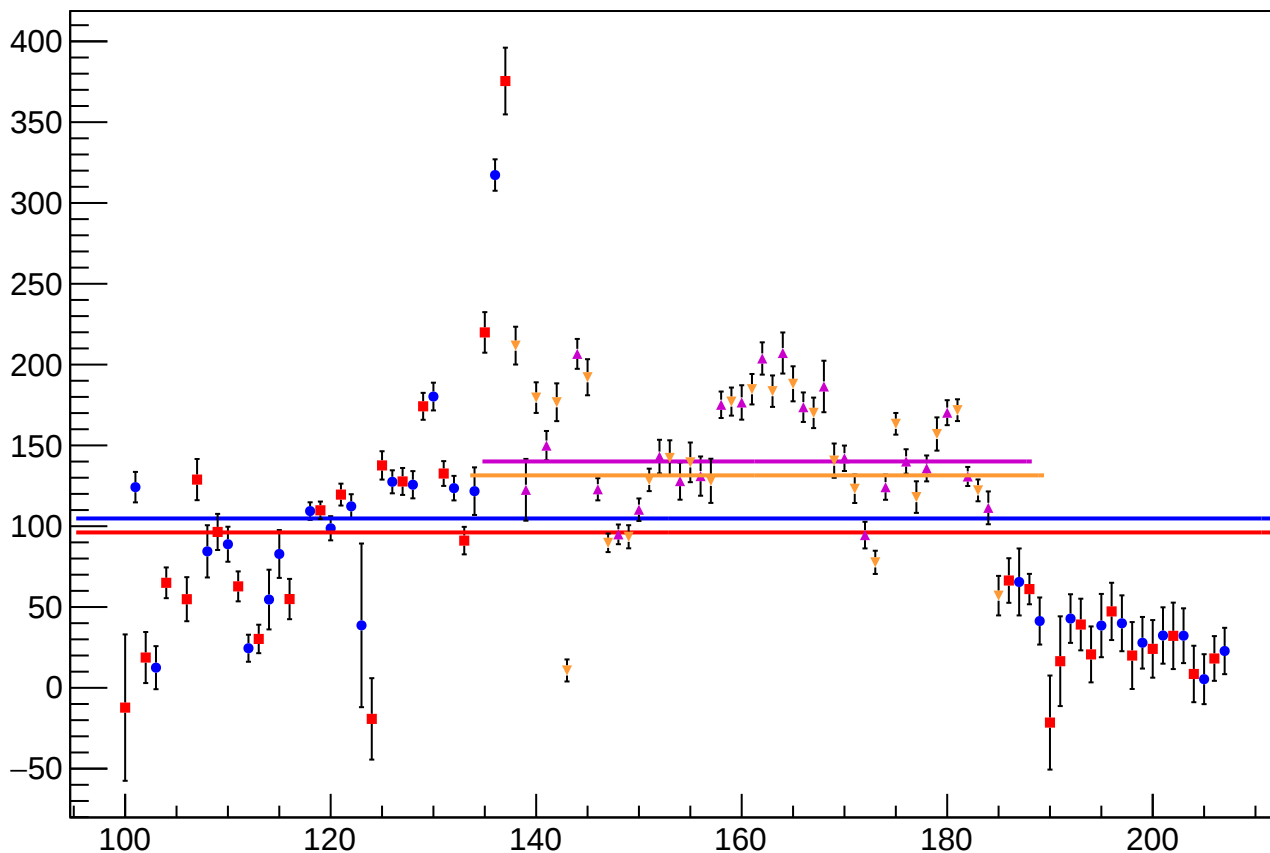
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 382.558 ± 2.341 $\chi^2/\text{NDF}: 4103.6/26$
 Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$
 Right Out: 408.633 ± 2.008 $\chi^2/\text{NDF}: 6077.4/30$
 Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$
 Right: 397.578 ± 1.524 $\chi^2/\text{NDF}: 10252.4/57$
 In: 369.309 ± 1.522 $\chi^2/\text{NDF}: 7557.6/49$
 Out: 373.202 ± 1.404 $\chi^2/\text{NDF}: 12188.6/55$
 All: 371.413 ± 1.032 $\chi^2/\text{NDF}: 19749.7/105$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.796 $\pm$ 2.049 χ^2 /NDF: 938.2/26

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 96.148 $\pm$ 1.997 χ^2 /NDF: 782.0/30

Left In: 140.069 $\pm$ 1.795 χ^2 /NDF: 316.5/22

Left: 135.602 $\pm$ 1.245 χ^2 /NDF: 1137.8/47

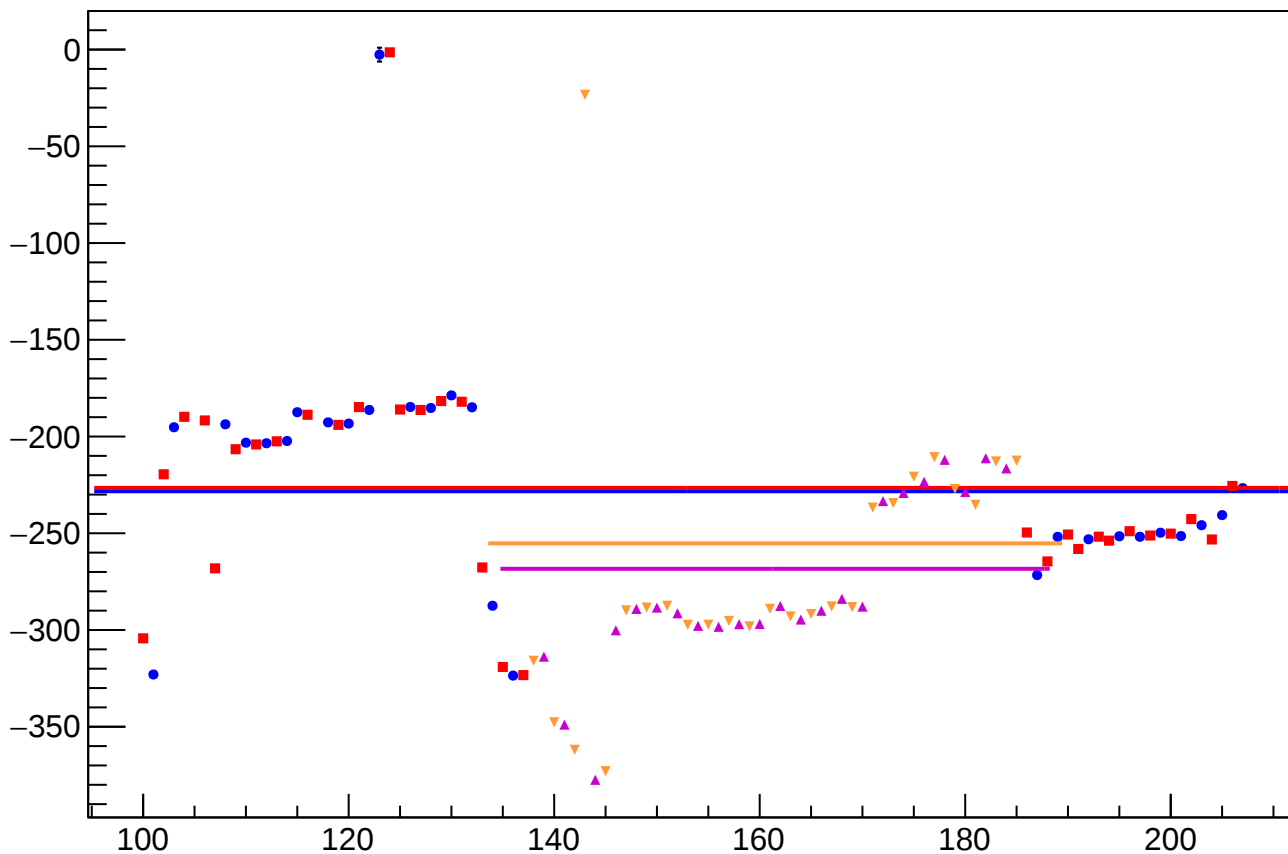
Right: 100.361 $\pm$ 1.430 χ^2 /NDF: 1729.3/57

In: 124.753 $\pm$ 1.350 χ^2 /NDF: 1422.4/49

Out: 116.348 $\pm$ 1.307 χ^2 /NDF: 1770.2/55

All: 120.413 $\pm$ 0.939 χ^2 /NDF: 3212.6/105

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.277 $\pm$ 0.109 χ^2 /NDF: 167045.6/26

Left Out: -255.232 $\pm$ 0.082 χ^2 /NDF: 728016.7/24

Right Out: -226.543 $\pm$ 0.103 χ^2 /NDF: 149156.8/30

Left In: -268.353 $\pm$ 0.084 χ^2 /NDF: 262479.3/22

Left: -261.661 $\pm$ 0.059 χ^2 /NDF: 1003051.2/47

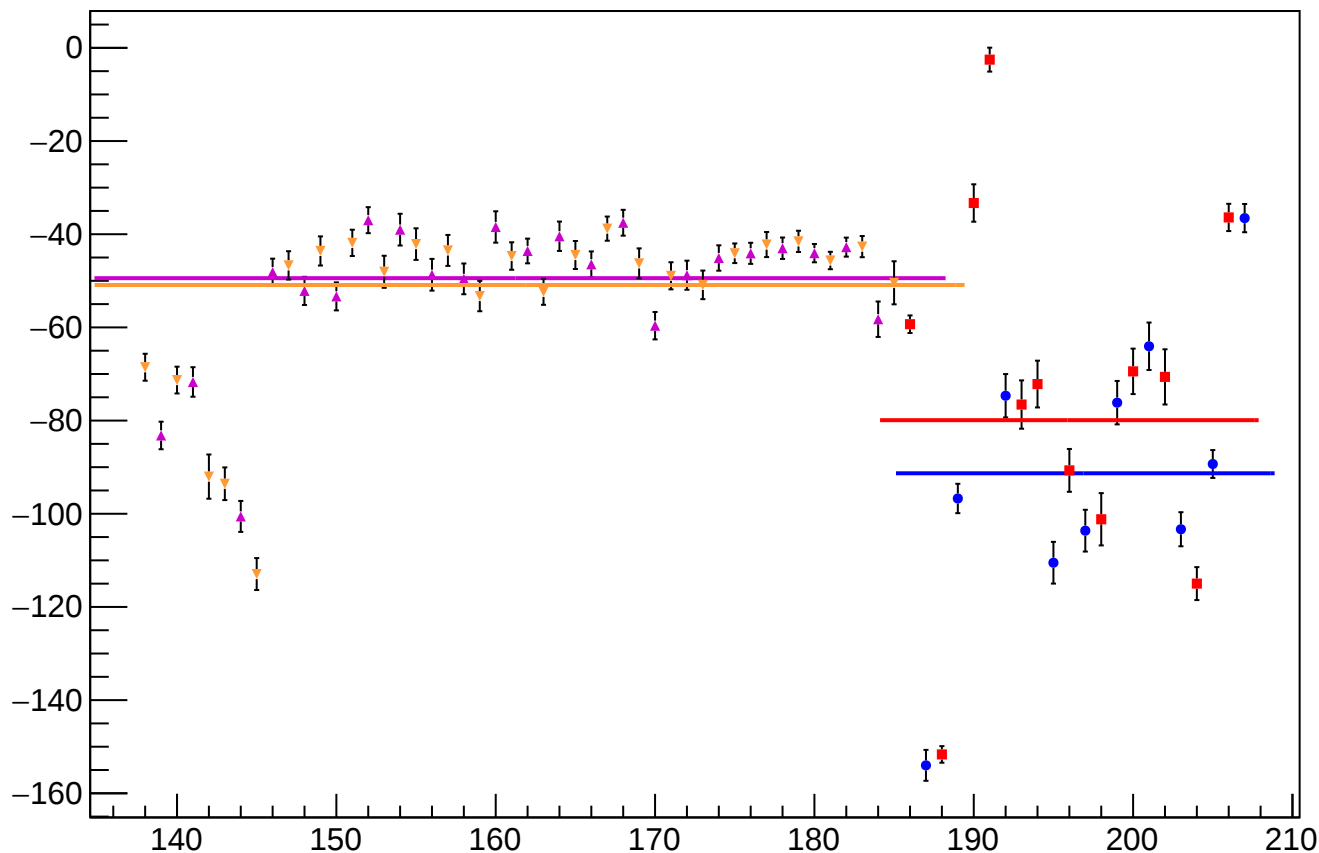
Right: -227.361 $\pm$ 0.075 χ^2 /NDF: 316335.1/57

In: -253.579 $\pm$ 0.066 χ^2 /NDF: 514196.4/49

Out: -244.171 $\pm$ 0.064 χ^2 /NDF: 924411.4/55

All: -248.717 $\pm$ 0.046 χ^2 /NDF: 1448968.3/10

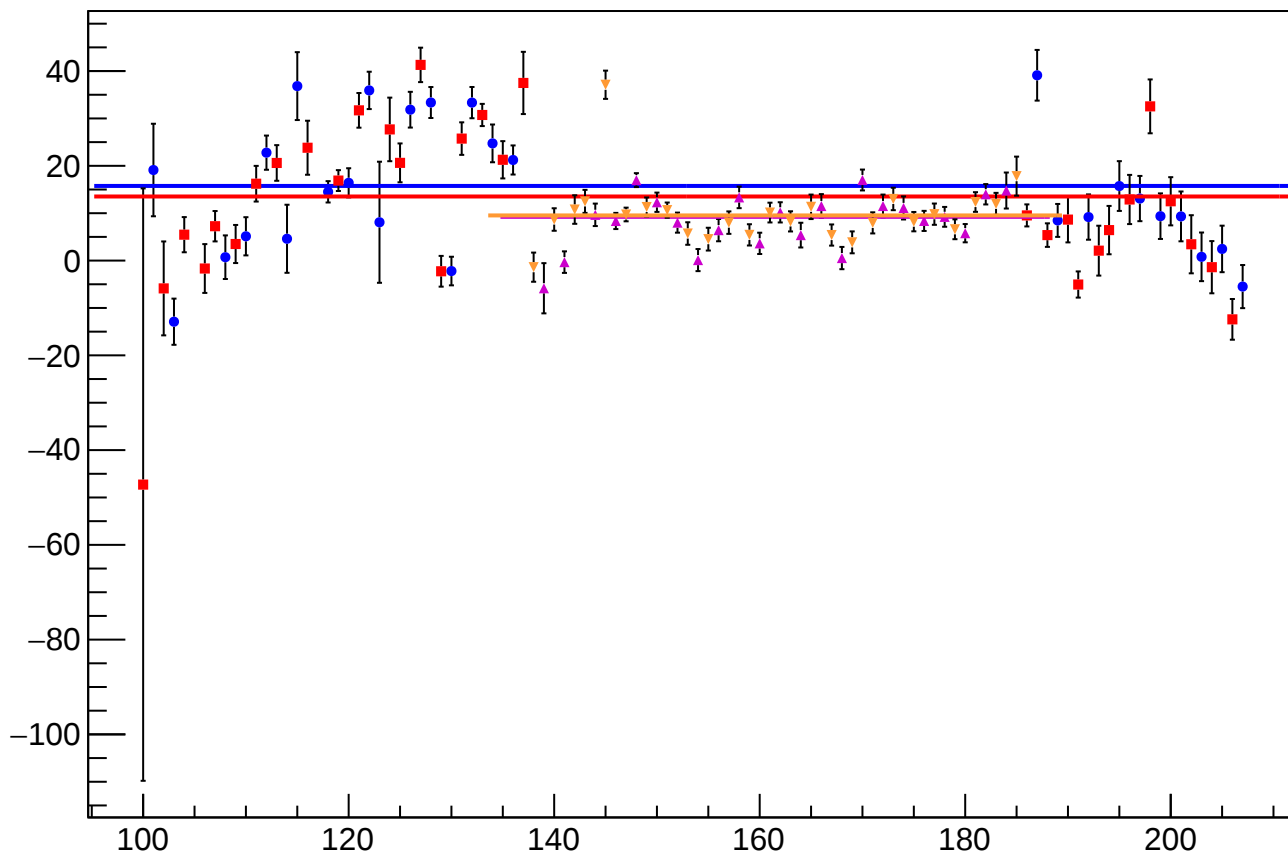
reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -91.314 ± 1.181 $\chi^2/\text{NDF}: 775.7/9$
 Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$
 Right Out: -79.914 ± 0.900 $\chi^2/\text{NDF}: 3135.0/11$
 Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$
 Right: -84.107 ± 0.716 $\chi^2/\text{NDF}: 3969.6/21$
 In: -57.665 ± 0.523 $\chi^2/\text{NDF}: 2330.4/32$
 Out: -59.257 ± 0.483 $\chi^2/\text{NDF}: 4635.5/36$
 All: -58.524 ± 0.355 $\chi^2/\text{NDF}: 6970.8/69$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.755+/-0.782 χ^2 /NDF: 280.0/26

Left Out: 9.530+/-0.446 χ^2 /NDF:134.4/24

Right Out: 13.528+/-0.681 χ^2 /NDF: 360.2/30

Left In: 9.231+/-0.462 χ^2 /NDF:124.0/22

Left: 9.386+/-0.321 χ^2 /NDF: 258.5/47

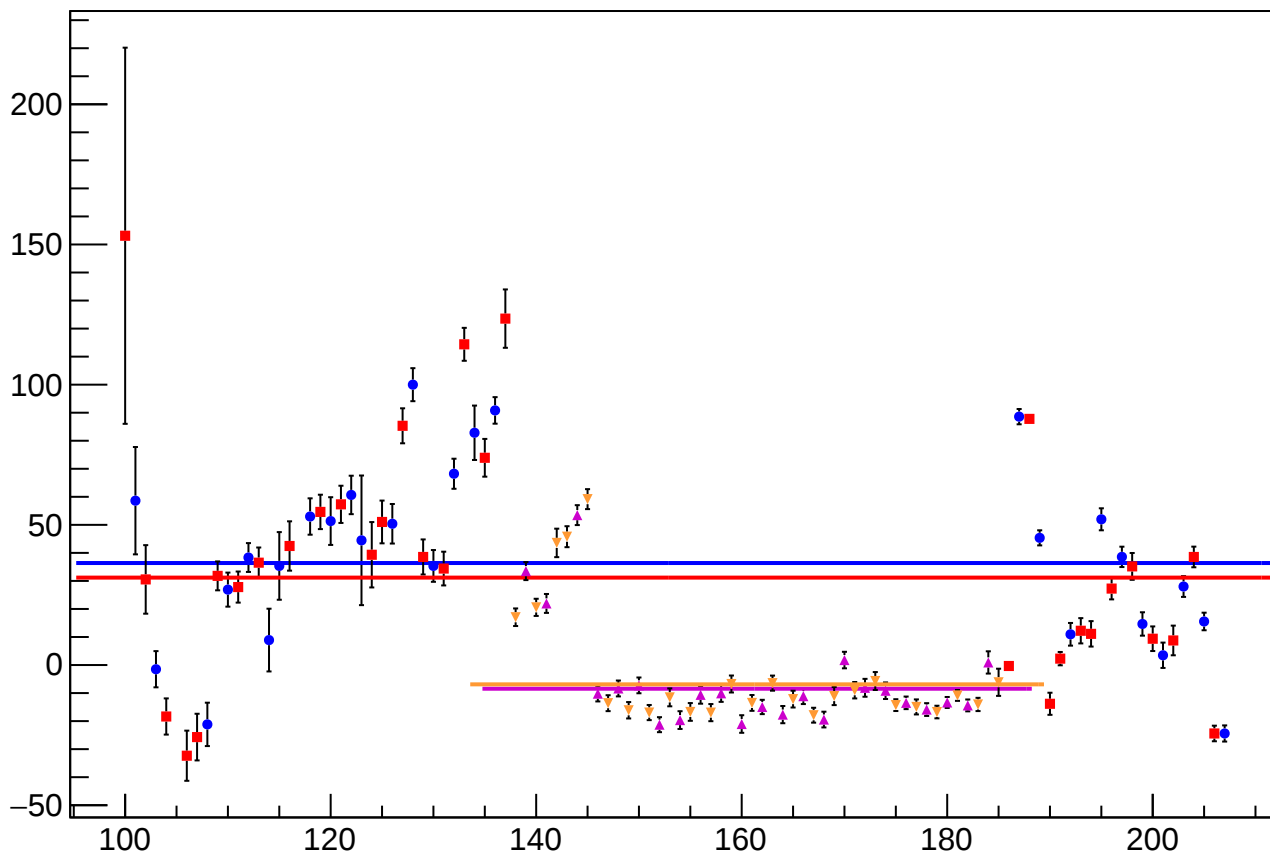
Right: 14.488+/-0.514 χ^2 /NDF: 644.8/57

In: 10.916+/-0.398 χ^2 /NDF:455.5/49

Out: 10.730+/-0.373 χ^2 /NDF:518.7/55

All: 10.817+/-0.272 χ^2 /NDF: 974.3/105

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.384 $\pm$ 0.902 χ^2 /NDF: 1441.2/26

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 31.182 $\pm$ 0.698 χ^2 /NDF: 3349.2/30

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

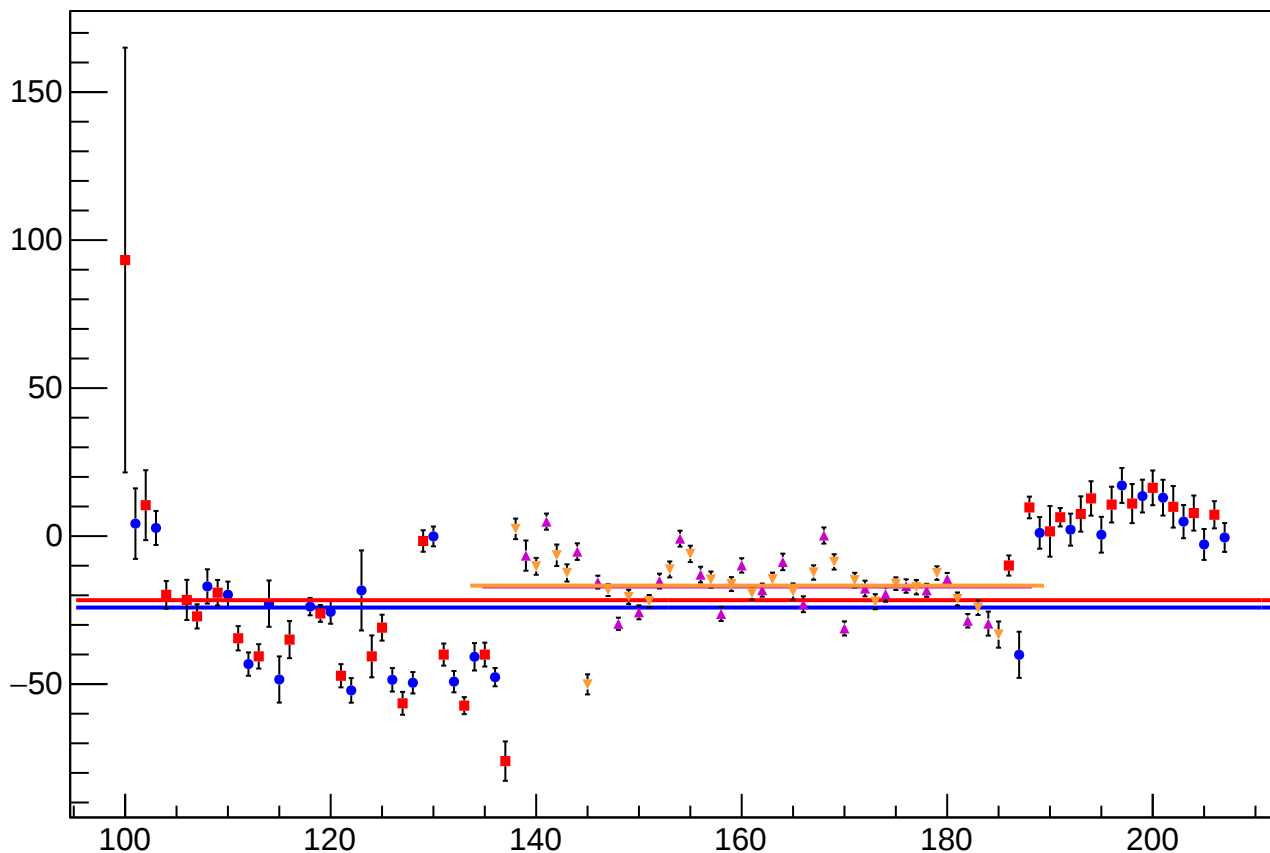
Right: 33.131 $\pm$ 0.552 χ^2 /NDF: 4811.2/57

In: 4.664 $\pm$ 0.488 χ^2 /NDF: 3879.3/49

Out: 8.372 $\pm$ 0.442 χ^2 /NDF: 6045.4/55

All: 6.700 $\pm$ 0.327 χ^2 /NDF: 9956.4/105

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.134 ± 0.903 $\chi^2/\text{NDF}: 634.0/26$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -21.645 ± 0.810 $\chi^2/\text{NDF}: 893.1/30$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

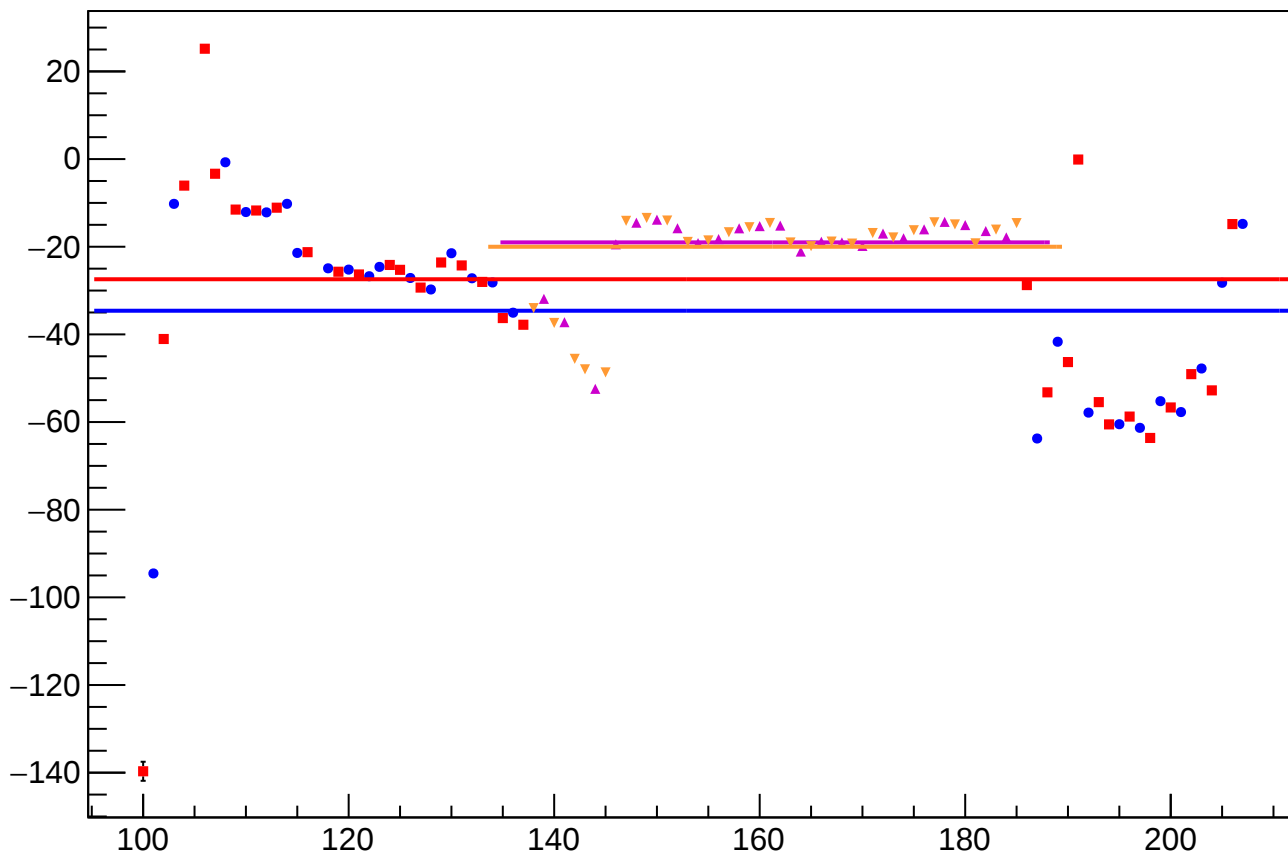
Right: -22.755 ± 0.603 $\chi^2/\text{NDF}: 1531.3/57$

In: -18.805 ± 0.452 $\chi^2/\text{NDF}: 1008.1/49$

Out: -18.115 ± 0.430 $\chi^2/\text{NDF}: 1142.9/55$

All: -18.442 ± 0.311 $\chi^2/\text{NDF}: 2152.2/105$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -34.603 ± 0.043 $\chi^2/\text{NDF}: 213386.1/26$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -27.419 ± 0.037 $\chi^2/\text{NDF}: 414211.5/30$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

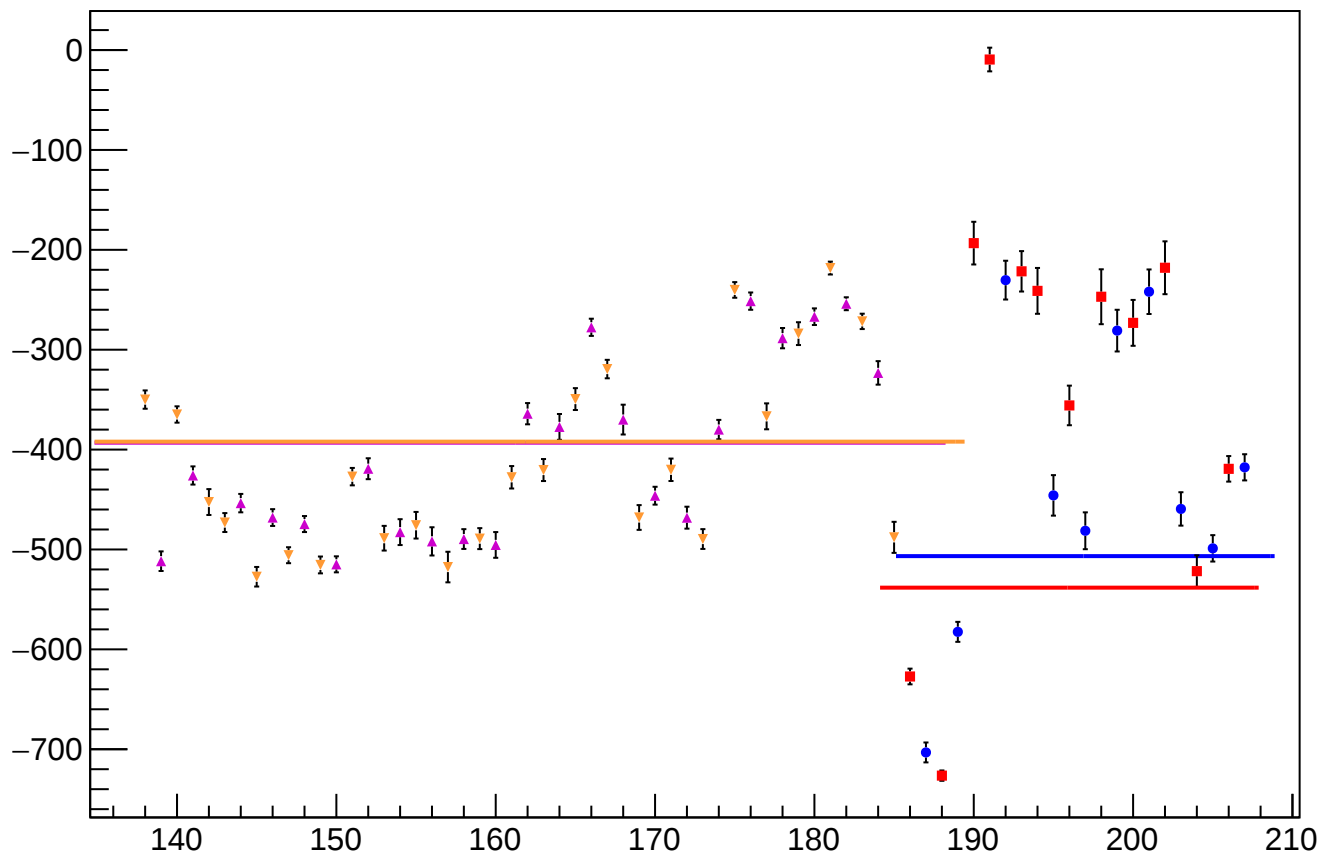
Right: -30.494 ± 0.028 $\chi^2/\text{NDF}: 643724.4/57$

In: -22.663 ± 0.021 $\chi^2/\text{NDF}: 405993.2/49$

Out: -22.109 ± 0.020 $\chi^2/\text{NDF}: 588567.7/55$

All: -22.373 ± 0.014 $\chi^2/\text{NDF}: 994935.9/105$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -506.663 ± 4.587 $\chi^2/\text{NDF}: 972.2/9$

Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$

Right Out: -538.229 ± 3.442 $\chi^2/\text{NDF}: 4675.0/11$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

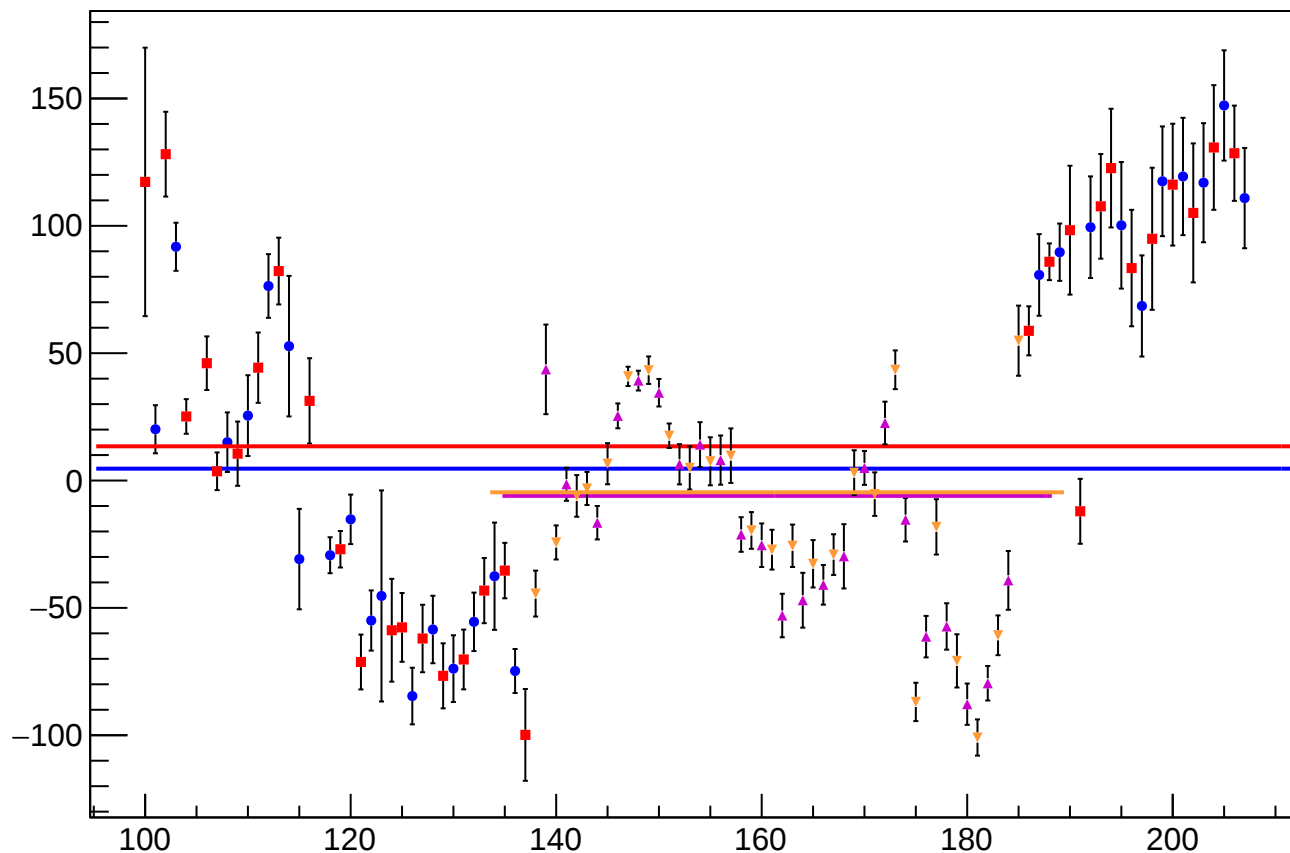
Right: -526.861 ± 2.753 $\chi^2/\text{NDF}: 5677.5/21$

In: -411.333 ± 1.838 $\chi^2/\text{NDF}: 3739.9/32$

Out: -428.032 ± 1.707 $\chi^2/\text{NDF}: 8752.0/36$

All: -420.295 ± 1.251 $\chi^2/\text{NDF}: 12536.2/69$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.661 ± 2.546 $\chi^2/\text{NDF}: 698.2/26$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 13.433 ± 2.239 $\chi^2/\text{NDF}: 736.1/30$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

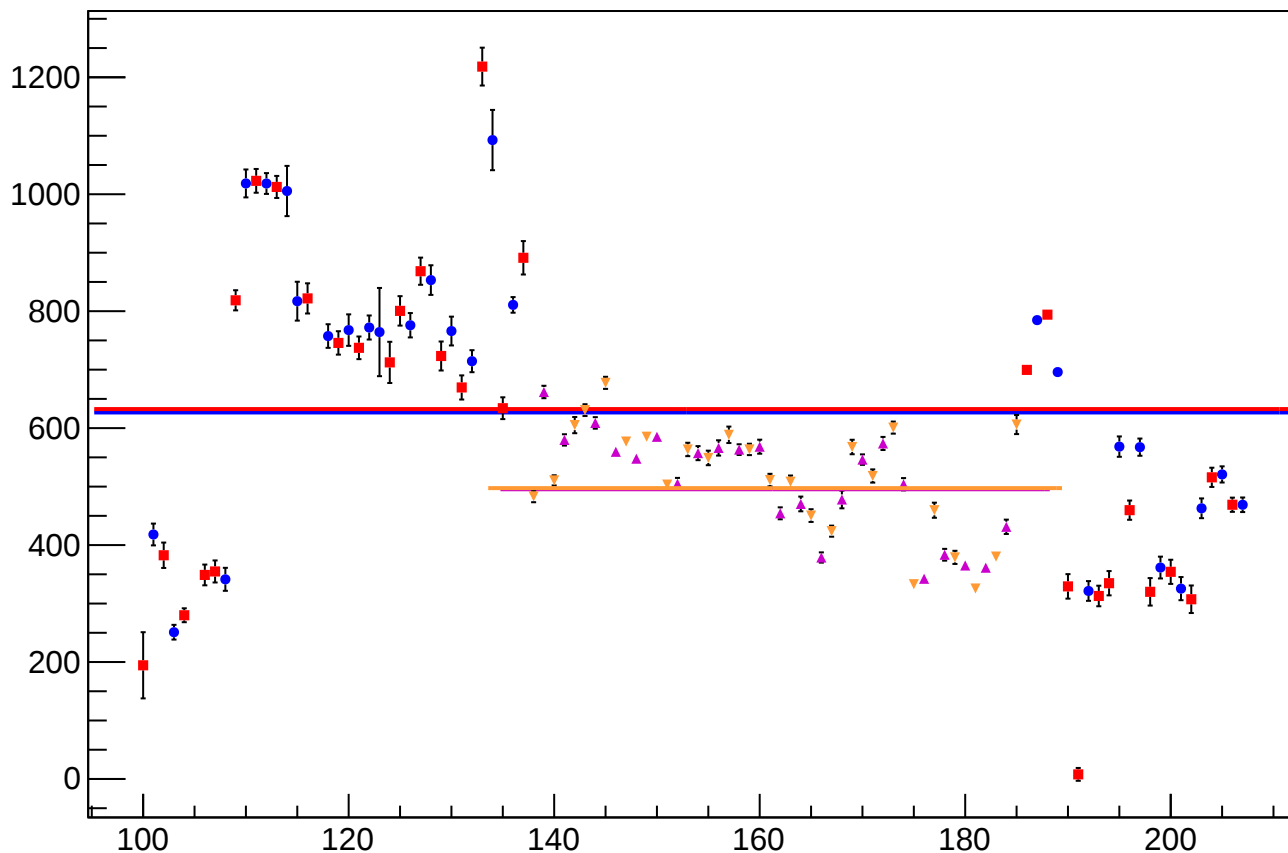
Right: 9.607 ± 1.681 $\chi^2/\text{NDF}: 1441.0/57$

In: -3.222 ± 1.303 $\chi^2/\text{NDF}: 1365.3/49$

Out: 0.774 ± 1.224 $\chi^2/\text{NDF}: 1554.6/55$

All: -1.100 ± 0.892 $\chi^2/\text{NDF}: 2924.9/105$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 626.798 ± 3.158 $\chi^2/\text{NDF}: 4211.9/26$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 632.592 ± 2.473 $\chi^2/\text{NDF}: 9621.8/30$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

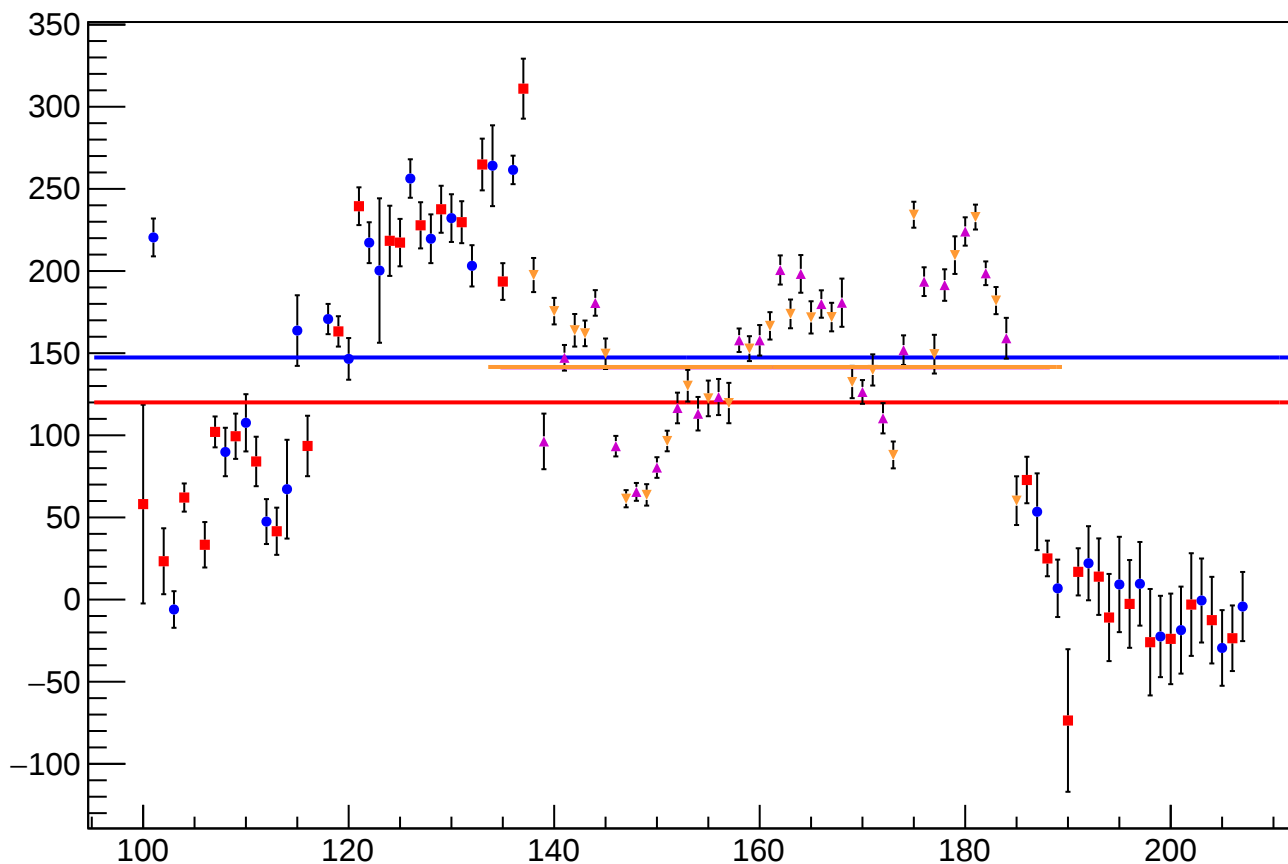
Right: 630.390 ± 1.947 $\chi^2/\text{NDF}: 13835.8/57$

In: 532.842 ± 1.685 $\chi^2/\text{NDF}: 7703.1/49$

Out: 549.750 ± 1.539 $\chi^2/\text{NDF}: 14068.5/55$

All: 542.061 ± 1.136 $\chi^2/\text{NDF}: 21826.5/105$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 147.378+/-2.969 χ^2/NDF : 1104.8/26

Left Out: 141.588+/-1.698 χ^2/NDF : 959.6/24

Right Out: 120.026+/-2.686 χ^2/NDF : 1152.2/30

Left In: 141.360+/-1.748 χ^2/NDF : 741.2/22

Left: 141.478+/-1.218 χ^2/NDF : 1700.8/47

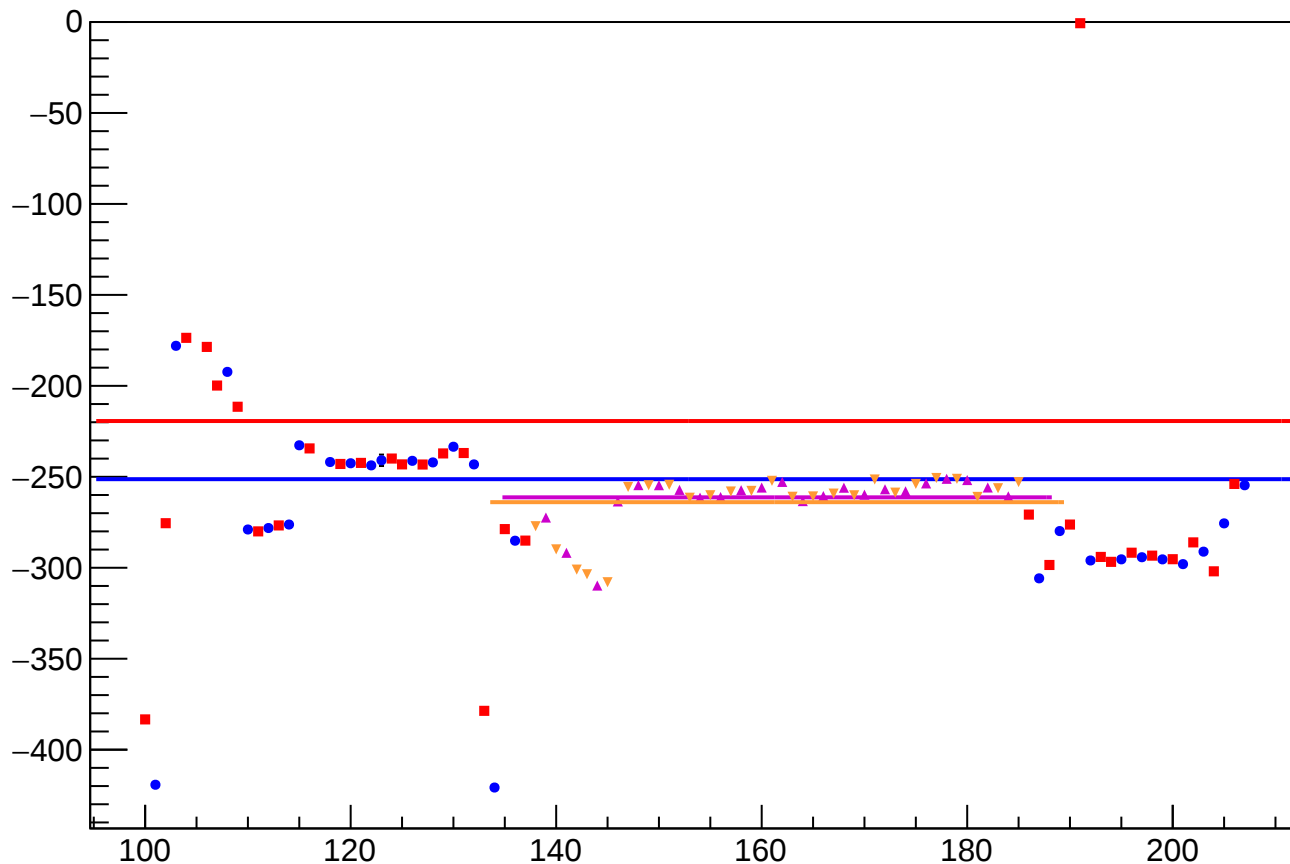
Right: 132.341+/-1.992 χ^2/NDF : 2303.7/57

In: 142.910+/-1.506 χ^2/NDF : 1849.1/49

Out: 135.431+/-1.436 χ^2/NDF : 2157.8/55

All: 138.991+/-1.039 χ^2/NDF : 4019.8/105

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.305 ± 0.138 $\chi^2/\text{NDF}: 195277.5/26$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -219.340 ± 0.123 $\chi^2/\text{NDF}: 492994.2/30$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

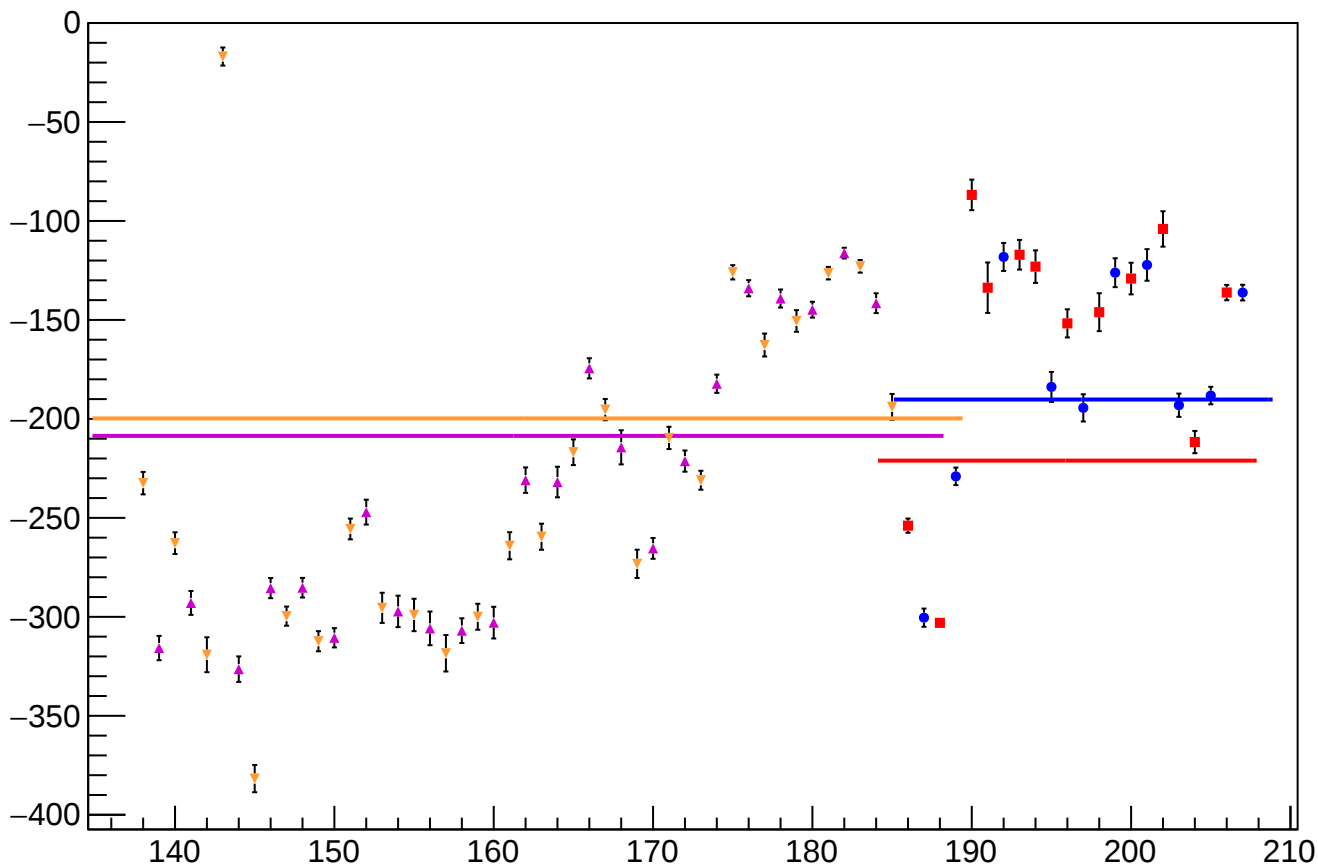
Right: -233.502 ± 0.092 $\chi^2/\text{NDF}: 718158.6/57$

In: -258.683 ± 0.070 $\chi^2/\text{NDF}: 222493.7/49$

Out: -250.405 ± 0.068 $\chi^2/\text{NDF}: 623558.1/55$

All: -254.384 ± 0.049 $\chi^2/\text{NDF}: 853216.1/105$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -190.212 ± 1.726 $\chi^2/\text{NDF}: 1094.2/9$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -221.069 ± 1.461 $\chi^2/\text{NDF}: 2907.5/11$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

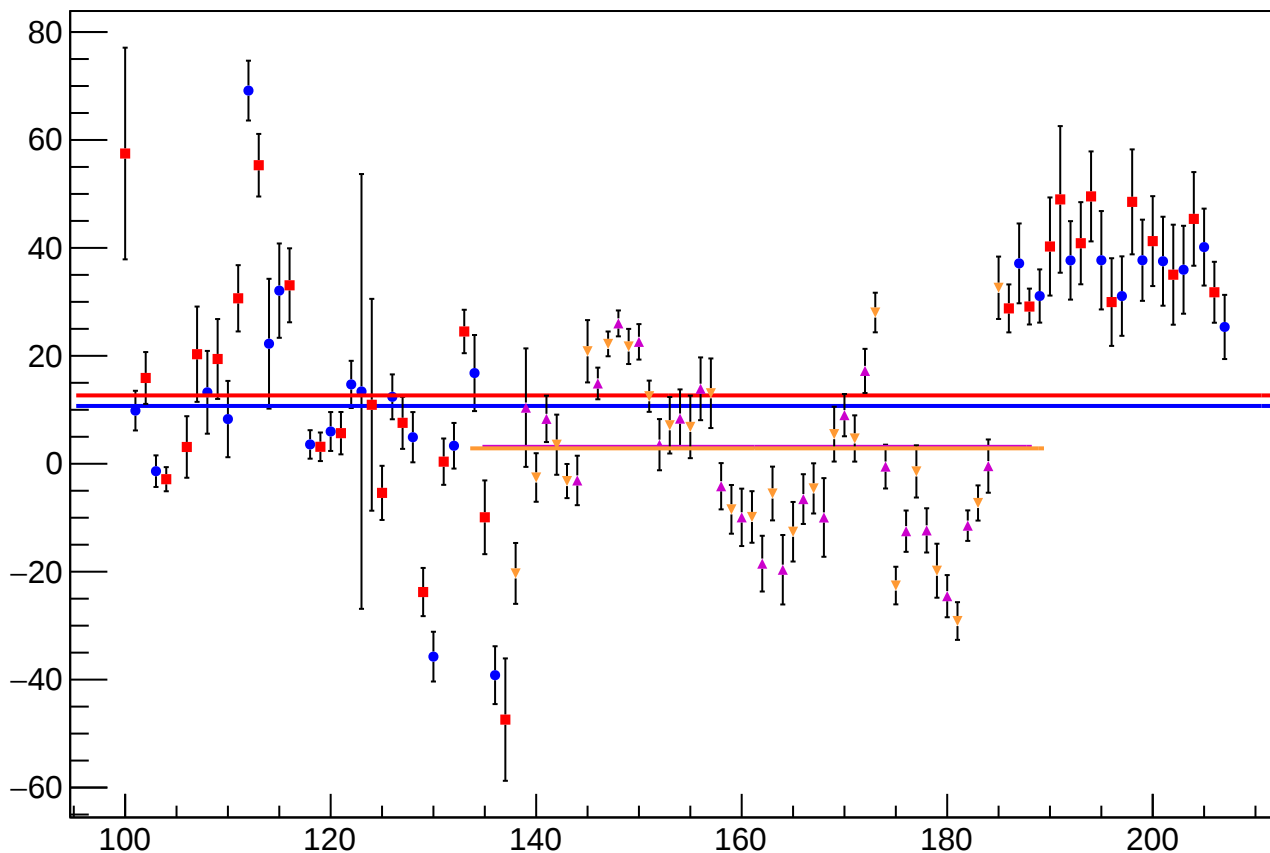
Right: -208.188 ± 1.115 $\chi^2/\text{NDF}: 4187.7/21$

In: -203.398 ± 0.917 $\chi^2/\text{NDF}: 5980.5/32$

Out: -207.103 ± 0.859 $\chi^2/\text{NDF}: 9408.5/36$

All: -205.372 ± 0.627 $\chi^2/\text{NDF}: 15397.7/69$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.712 ± 0.990 $\chi^2/\text{NDF}: 455.1/26$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 12.664 ± 0.928 $\chi^2/\text{NDF}: 431.2/30$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

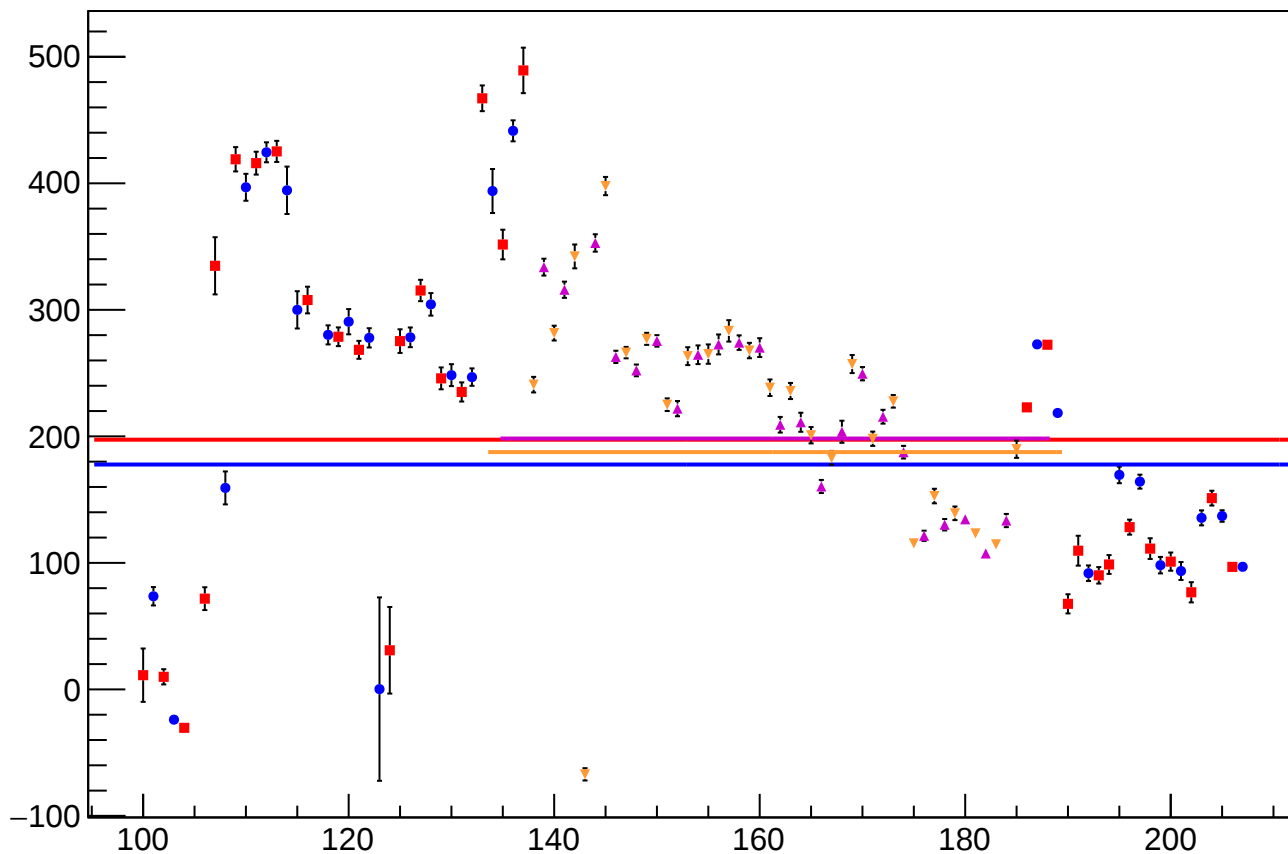
Right: 11.751 ± 0.677 $\chi^2/\text{NDF}: 888.4/57$

In: 6.379 ± 0.648 $\chi^2/\text{NDF}: 808.4/49$

Out: 7.152 ± 0.615 $\chi^2/\text{NDF}: 913.8/55$

All: 6.786 ± 0.446 $\chi^2/\text{NDF}: 1722.9/105$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 177.734 $\pm$ 1.223 χ^2 /NDF: 8684.3/26

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.362 $\pm$ 1.046 χ^2 /NDF: 12130.9/30

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

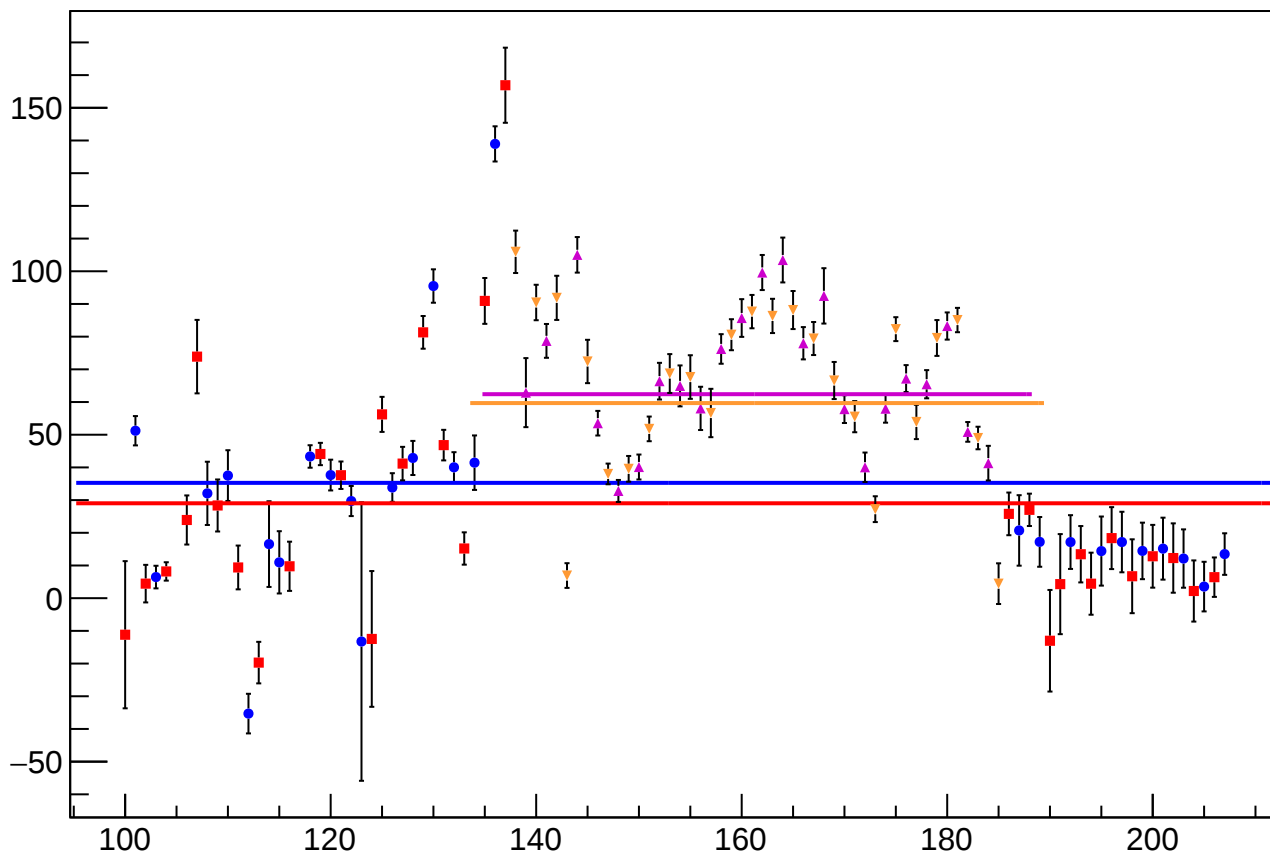
Right: 189.070 $\pm$ 0.795 χ^2 /NDF: 20963.9/57

In: 189.260 $\pm$ 0.810 χ^2 /NDF: 13358.3/49

Out: 192.554 $\pm$ 0.747 χ^2 /NDF: 19256.0/55

All: 191.041 $\pm$ 0.549 χ^2 /NDF: 32623.2/105

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 35.277 $\pm$ 1.158 χ^2/NDF : 815.0/26

Left Out: 59.682 $\pm$ 0.941 χ^2/NDF : 757.6/24

Right Out: 29.028 $\pm$ 1.109 χ^2/NDF : 612.5/30

Left In: 62.400 $\pm$ 0.974 χ^2/NDF : 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2/NDF : 1167.9/47

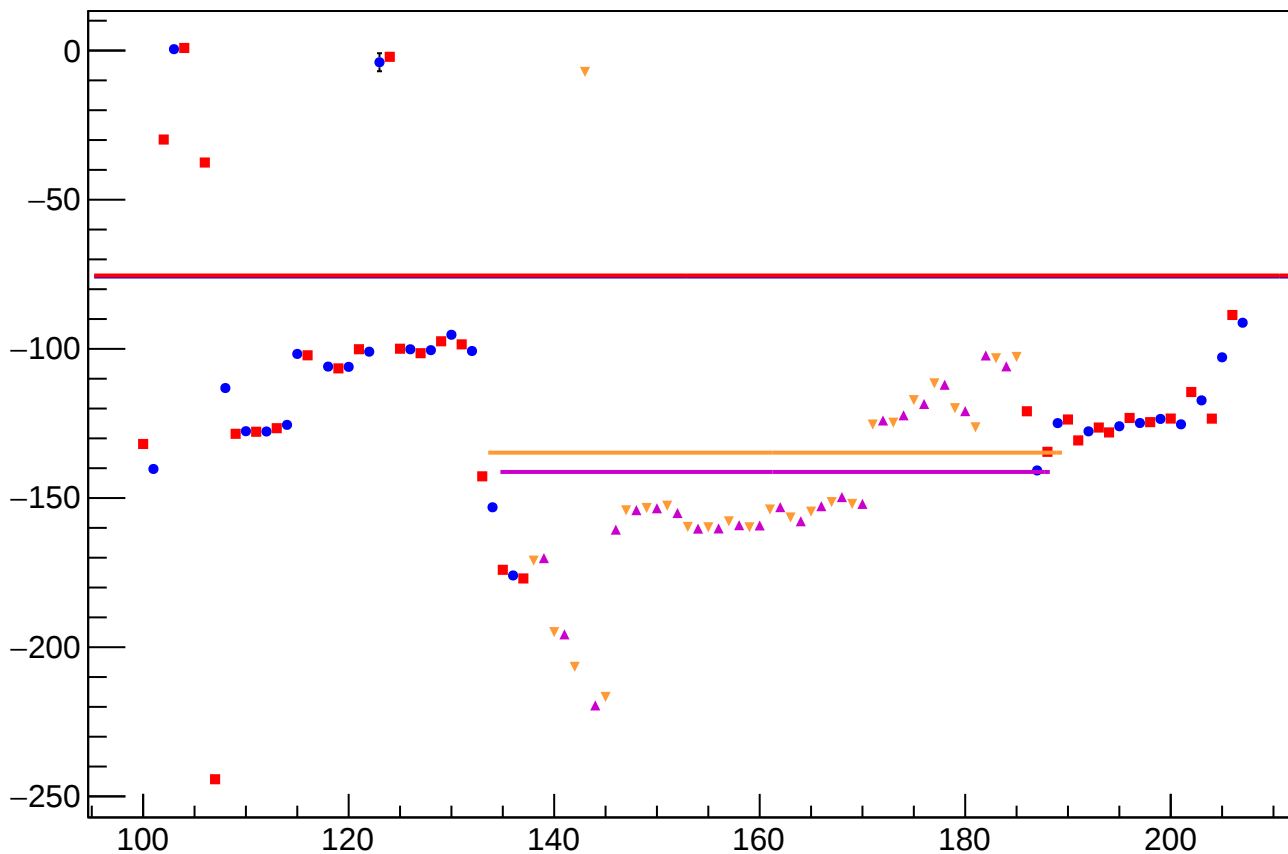
Right: 32.018 $\pm$ 0.801 χ^2/NDF : 1442.6/57

In: 51.162 $\pm$ 0.746 χ^2/NDF : 1542.5/49

Out: 46.861 $\pm$ 0.718 χ^2/NDF : 1814.2/55

All: 48.929 $\pm$ 0.517 χ^2/NDF : 3373.9/105

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -75.742 $\pm$ 0.052 χ^2 /NDF: 1403549.4/26

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -75.405 $\pm$ 0.050 χ^2 /NDF: 1395320.3/30

Left In: -141.255 $\pm$ 0.045 χ^2 /NDF: 347229.8/22

Left: -137.961 $\pm$ 0.032 χ^2 /NDF: 1162377.9/47

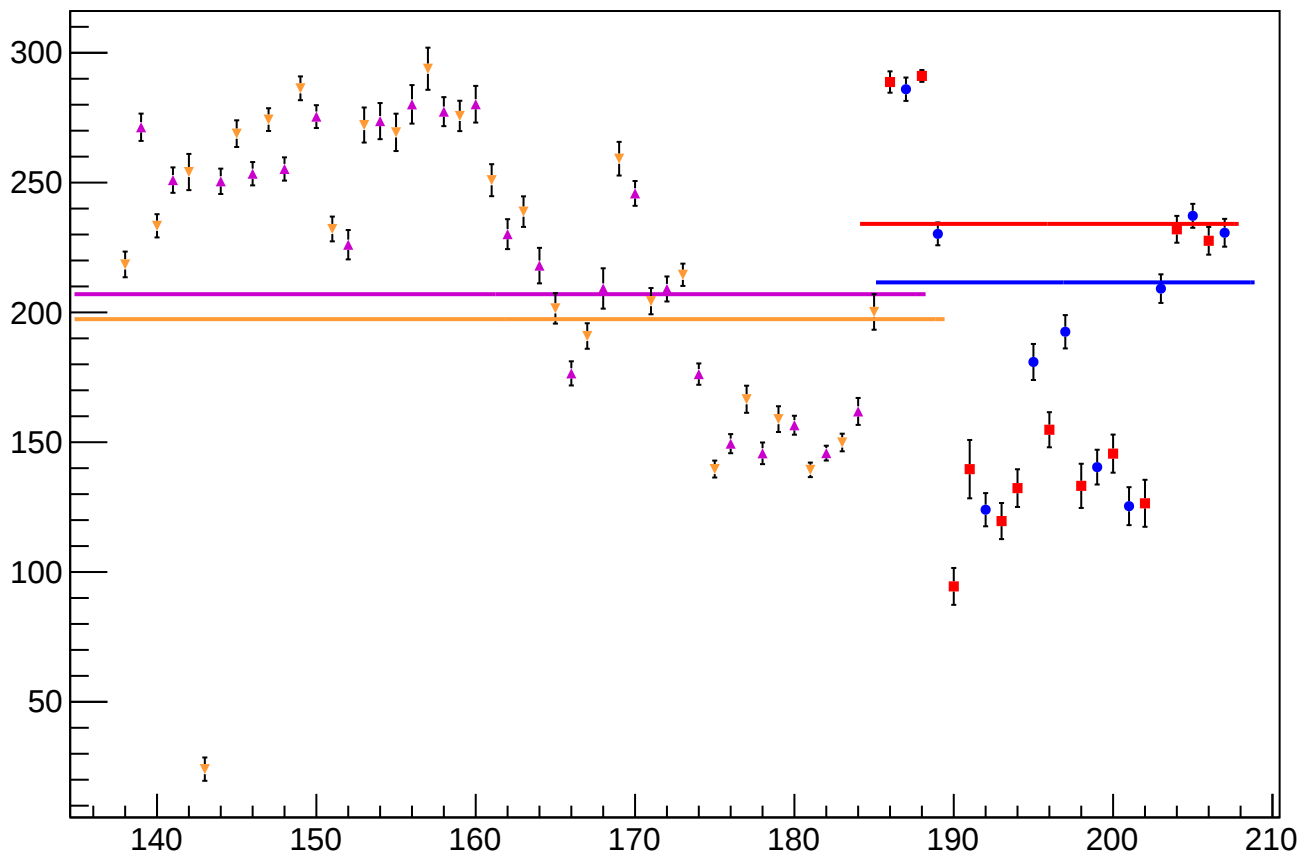
Right: -75.567 $\pm$ 0.036 χ^2 /NDF: 2798891.7/57

In: -112.853 $\pm$ 0.034 χ^2 /NDF: 2657909.3/49

Out: -108.434 $\pm$ 0.033 χ^2 /NDF: 2989905.3/55

All: -110.585 $\pm$ 0.024 χ^2 /NDF: 5656437.5/100

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



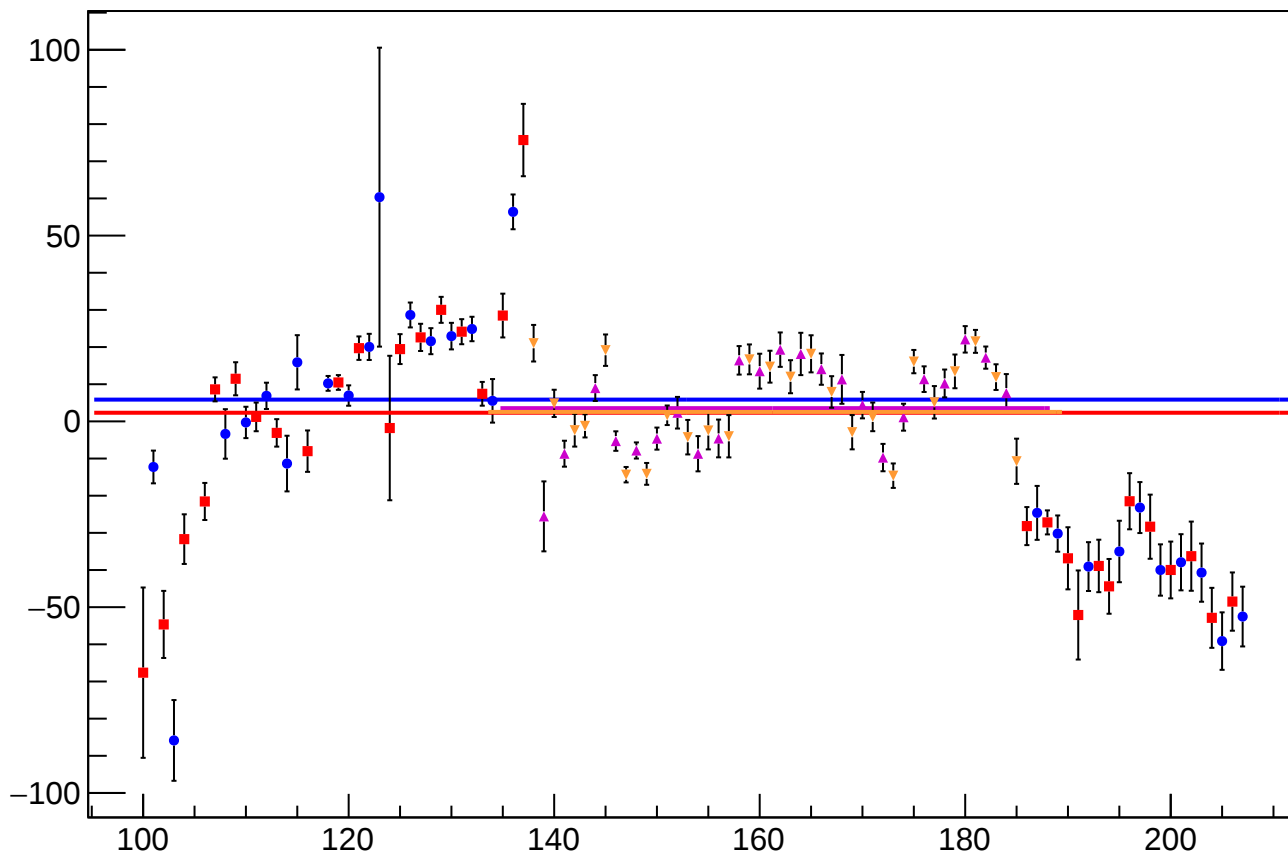
Left: 202.077 $\pm$ 0.690 χ^2/NDF : 7044.1/47
 Right: 224.719 $\pm$ 1.129 χ^2/NDF : 3193.5/21

Right In: 211.564 $\pm$ 1.750 χ^2/NDF : 803.1/9
 Left Out: 197.408 $\pm$ 0.963 χ^2/NDF : 4384.2/24
 Right Out: 234.097 $\pm$ 1.478 χ^2/NDF : 2293.7/11
 Left In: 207.014 $\pm$ 0.990 χ^2/NDF : 2611.5/22

In: 208.118 $\pm$ 0.862 χ^2/NDF : 3419.7/32
 Out: 208.343 $\pm$ 0.807 χ^2/NDF : 7110.6/36

All: 208.238 $\pm$ 0.589 χ^2/NDF : 10530.4/69

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.859 ± 0.863 $\chi^2/\text{NDF}: 759.5/26$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 2.322 ± 0.822 $\chi^2/\text{NDF}: 786.1/30$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

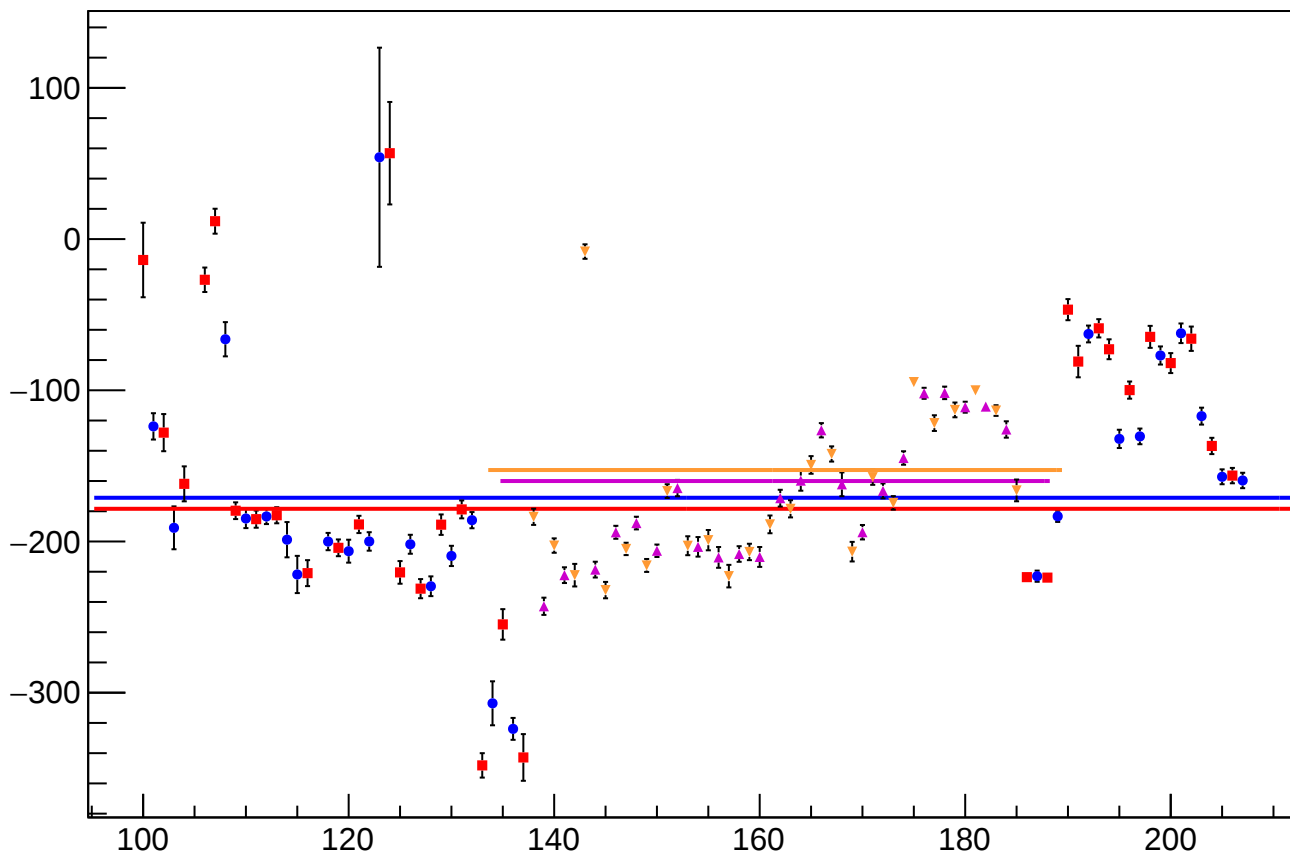
Right: 4.005 ± 0.595 $\chi^2/\text{NDF}: 1554.4/57$

In: 4.585 ± 0.576 $\chi^2/\text{NDF}: 955.4/49$

Out: 2.446 ± 0.550 $\chi^2/\text{NDF}: 1061.6/55$

All: 3.467 ± 0.398 $\chi^2/\text{NDF}: 2024.2/105$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.081 ± 1.183 χ^2/NDF : 2230.9/26

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -178.379 ± 1.012 χ^2/NDF : 4578.3/30

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

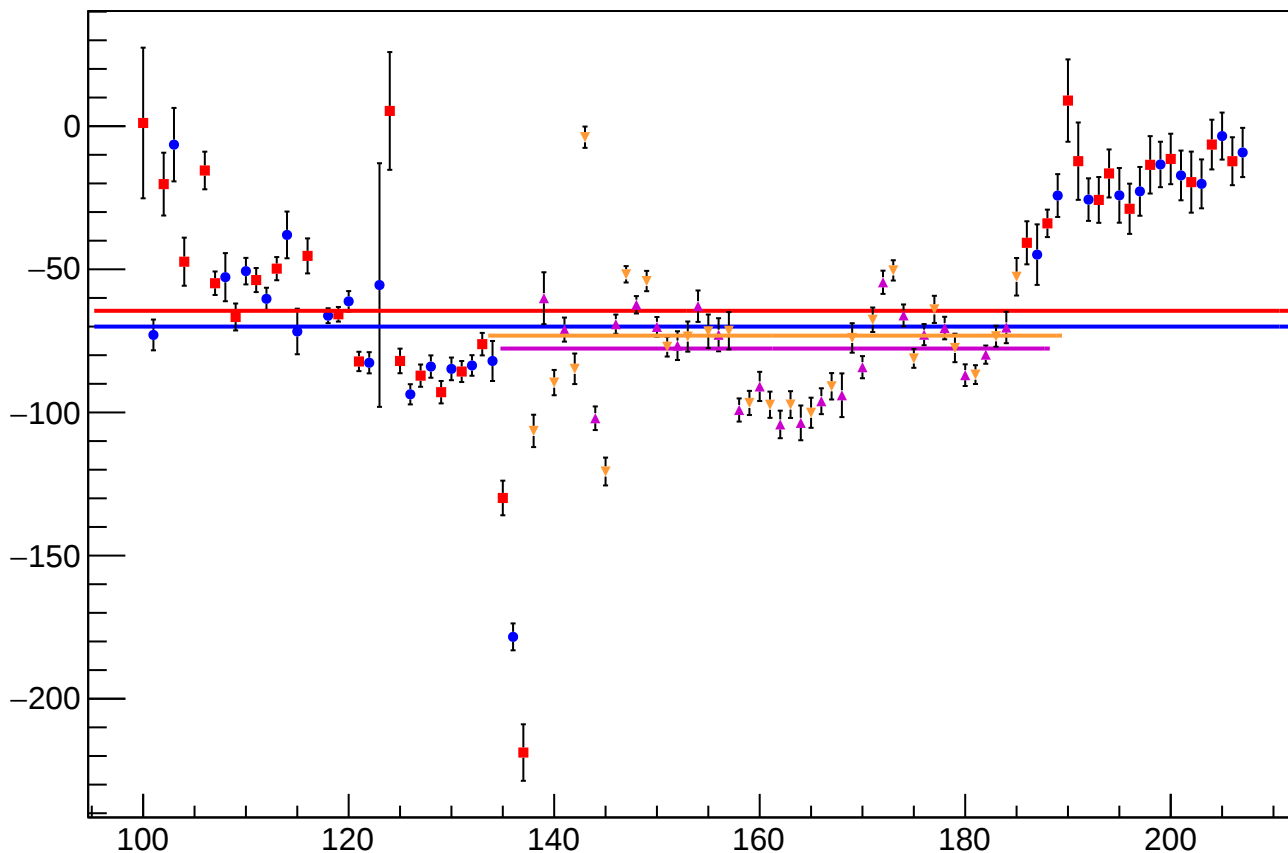
Right: -175.294 ± 0.769 χ^2/NDF : 6831.1/57

In: -164.569 ± 0.759 χ^2/NDF : 4306.7/49

Out: -164.970 ± 0.699 χ^2/NDF : 7991.5/55

All: -164.786 ± 0.514 χ^2/NDF : 12298.4/105

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.006 ± 1.004 χ^2/NDF : 1078.9/26

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -64.494 ± 0.965 χ^2/NDF : 991.4/30

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

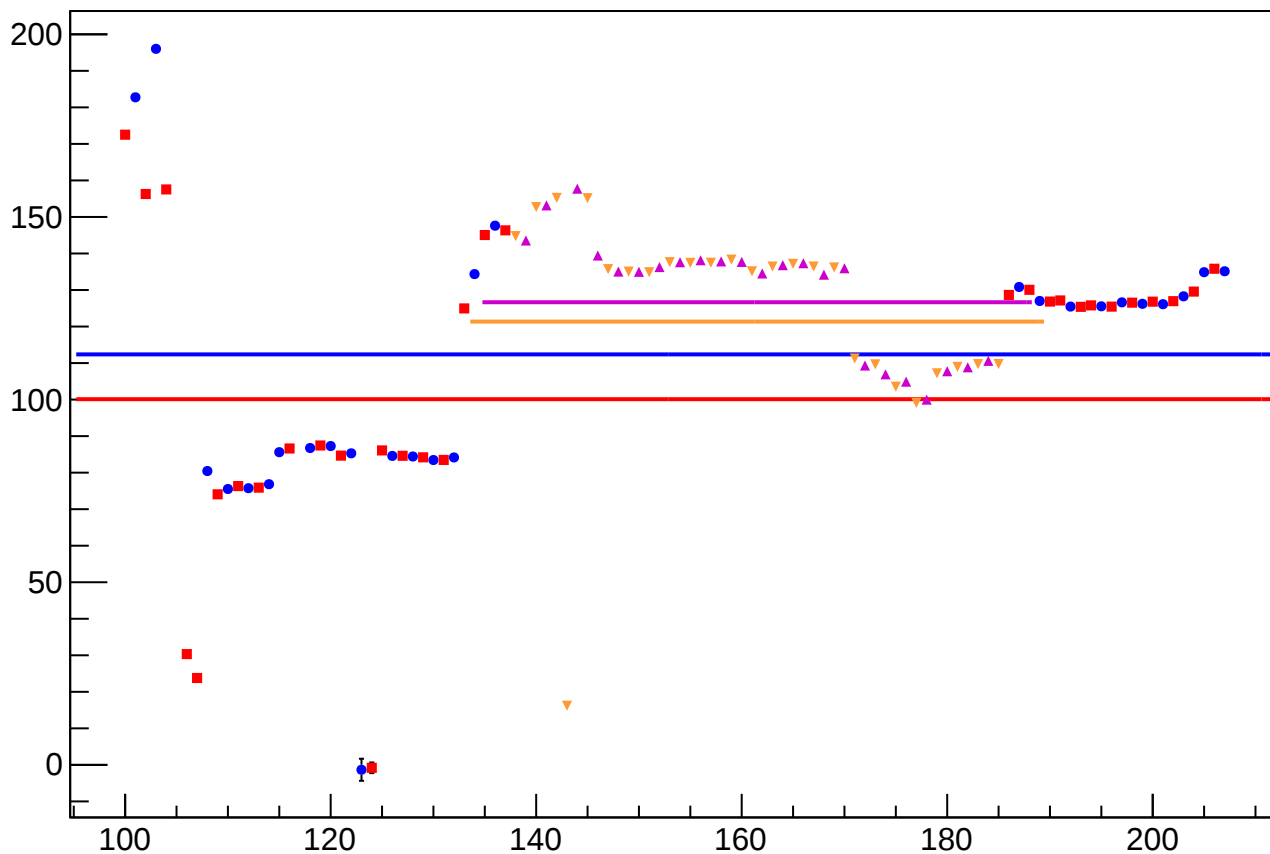
Right: -67.140 ± 0.696 χ^2/NDF : 2085.9/57

In: -74.333 ± 0.663 χ^2/NDF : 1360.1/49

Out: -69.370 ± 0.638 χ^2/NDF : 1825.4/55

All: -71.757 ± 0.460 χ^2/NDF : 3214.5/105

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.376 $\pm$ 0.056 χ^2/NDF : 315991.5/26

Left Out: 121.356 $\pm$ 0.040 χ^2/NDF : 481977.3/24

Right Out: 100.111 $\pm$ 0.051 χ^2/NDF : 581070.5/30

Left In: 126.653 $\pm$ 0.041 χ^2/NDF : 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2/NDF : 653496.6/47

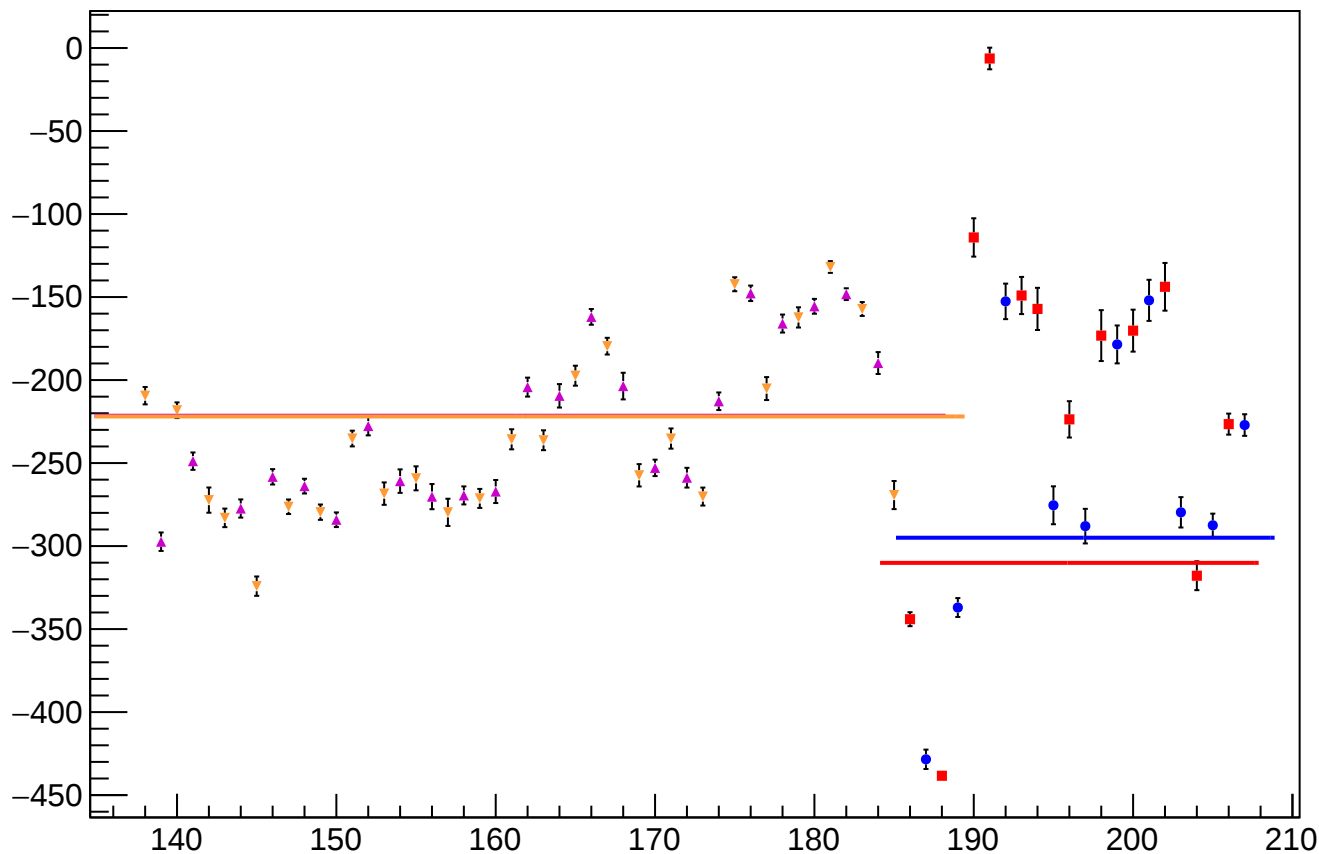
Right: 105.660 $\pm$ 0.038 χ^2/NDF : 922905.1/57

In: 121.711 $\pm$ 0.033 χ^2/NDF : 520857.7/49

Out: 113.251 $\pm$ 0.032 χ^2/NDF : 1169047.2/55

All: 117.283 $\pm$ 0.023 χ^2/NDF : 1723856.4/105

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -294.964 ± 2.532 $\chi^2/\text{NDF}: 1108.7/9$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -310.107 ± 1.917 $\chi^2/\text{NDF}: 5234.4/11$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

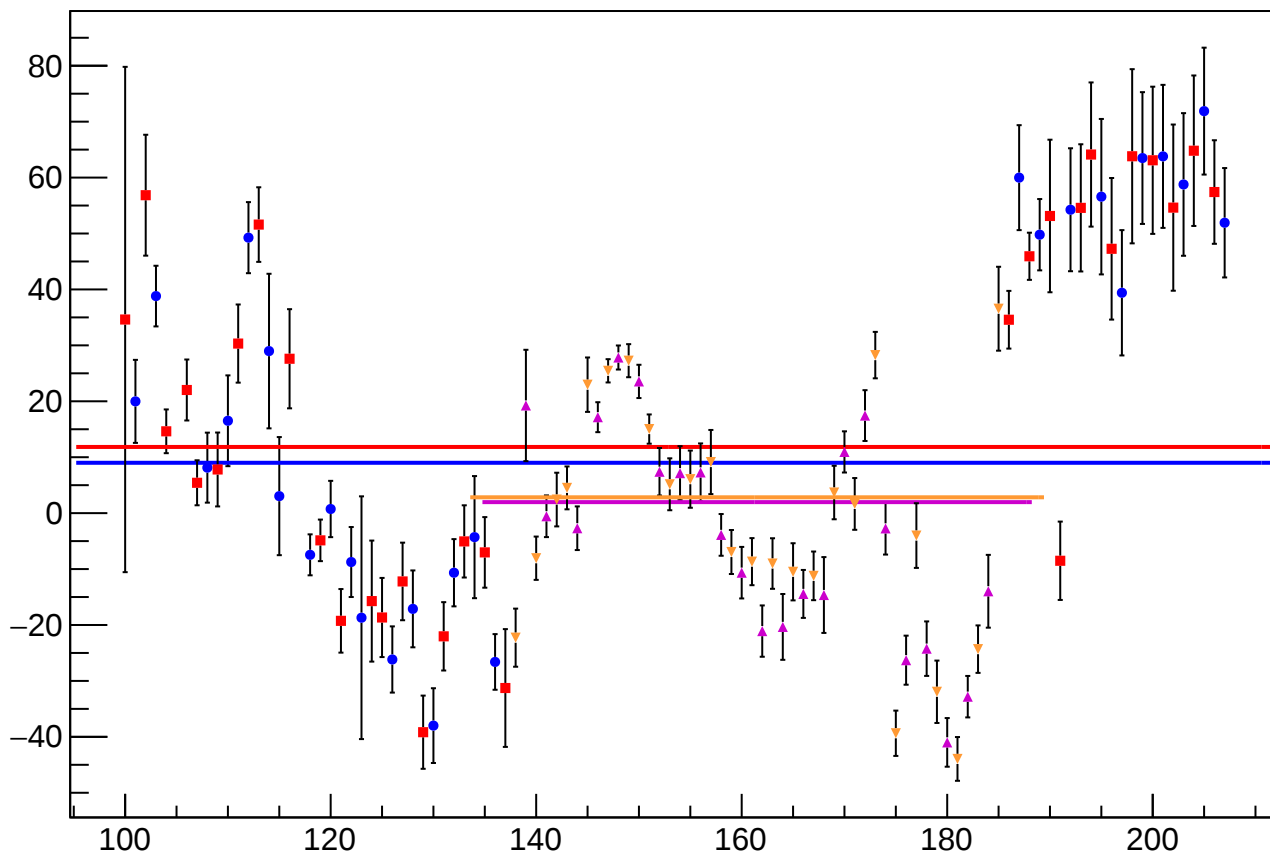
Right: -304.587 ± 1.529 $\chi^2/\text{NDF}: 6365.8/21$

In: -233.191 ± 1.011 $\chi^2/\text{NDF}: 3966.6/32$

Out: -243.303 ± 0.944 $\chi^2/\text{NDF}: 9414.9/36$

All: -238.592 ± 0.690 $\chi^2/\text{NDF}: 13435.0/69$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.004 ± 1.391 $\chi^2/\text{NDF}: 482.4/26$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 11.835 ± 1.212 $\chi^2/\text{NDF}: 496.6/30$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

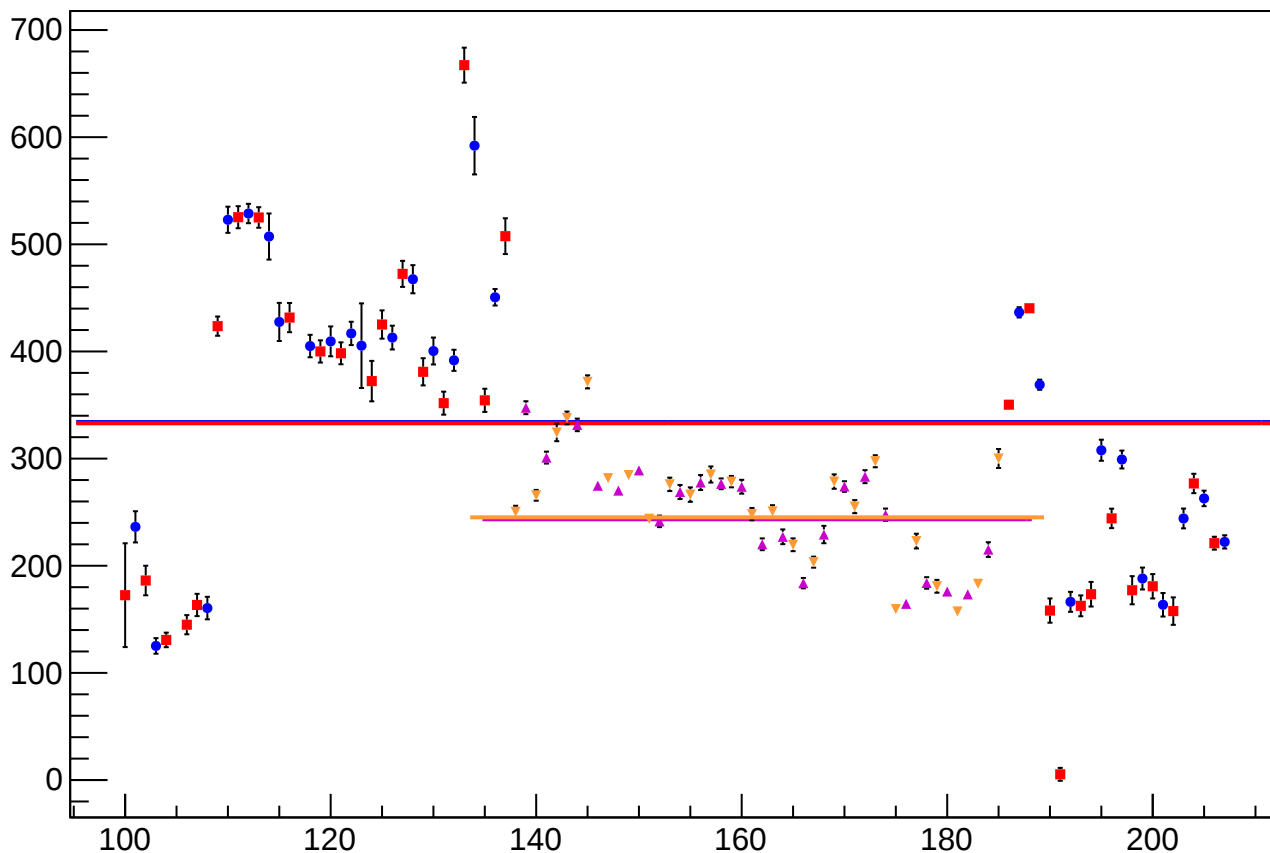
Right: 10.613 ± 0.914 $\chi^2/\text{NDF}: 981.3/57$

In: 3.832 ± 0.716 $\chi^2/\text{NDF}: 1090.3/49$

Out: 5.597 ± 0.672 $\chi^2/\text{NDF}: 1221.7/55$

All: 4.771 ± 0.490 $\chi^2/\text{NDF}: 2315.2/105$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 334.113 $\pm$ 1.746 χ^2 /NDF: 4436.2/26

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 332.970 $\pm$ 1.369 χ^2 /NDF: 10067.3/30

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF:2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

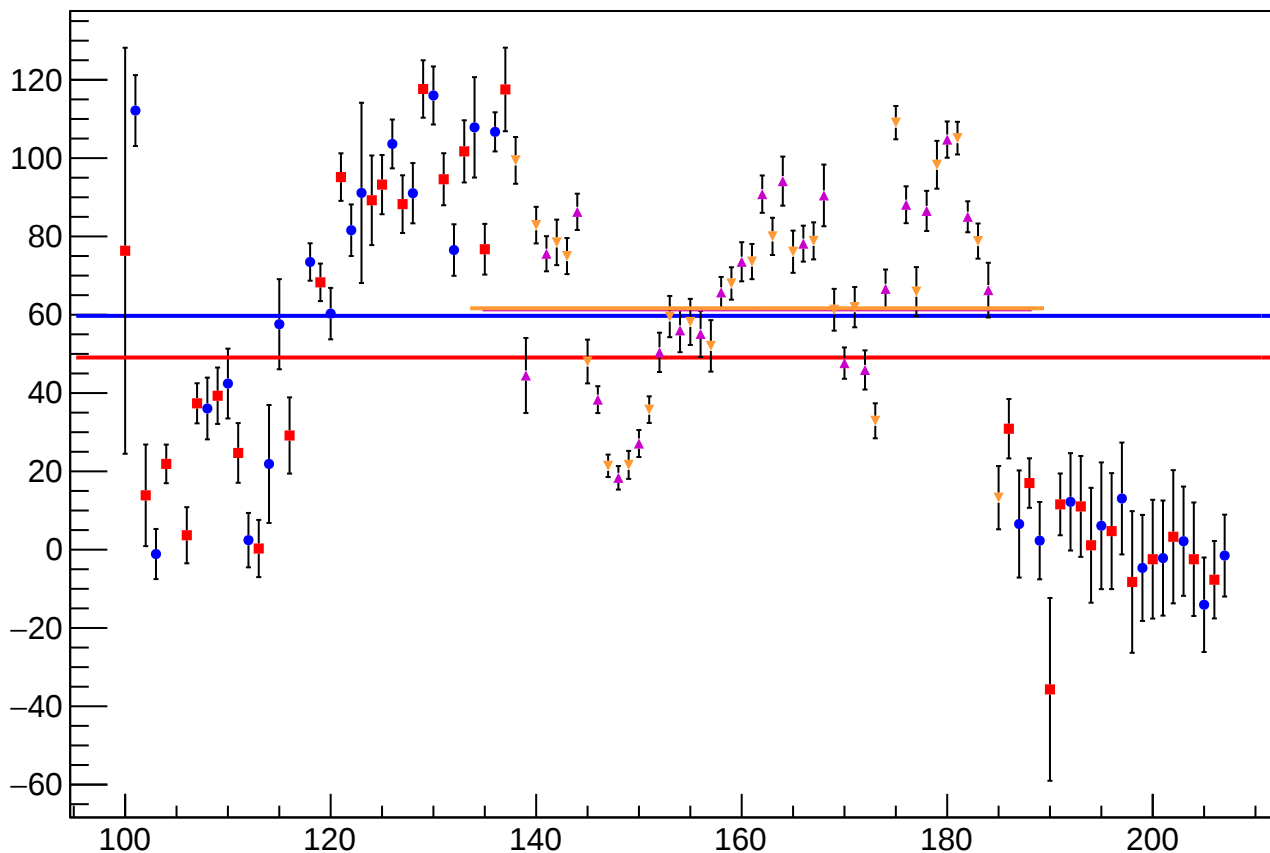
Right: 333.405 $\pm$ 1.077 χ^2 /NDF: 14503.8/57

In: 268.930 $\pm$ 0.927 χ^2 /NDF:8612.5/49

Out: 278.942 $\pm$ 0.849 χ^2 /NDF:15196.4/55

All: 274.375 $\pm$ 0.626 χ^2 /NDF: 23872.4/105

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 59.717+/-1.618 χ^2/NDF : 679.0/26

Left Out: 61.647+/-0.936 χ^2/NDF : 871.5/24

Right Out: 49.077+/-1.449 χ^2/NDF : 700.2/30

Left In: 61.375+/-0.961 χ^2/NDF : 699.7/22

Left: 61.515+/-0.671 χ^2/NDF : 1571.3/47

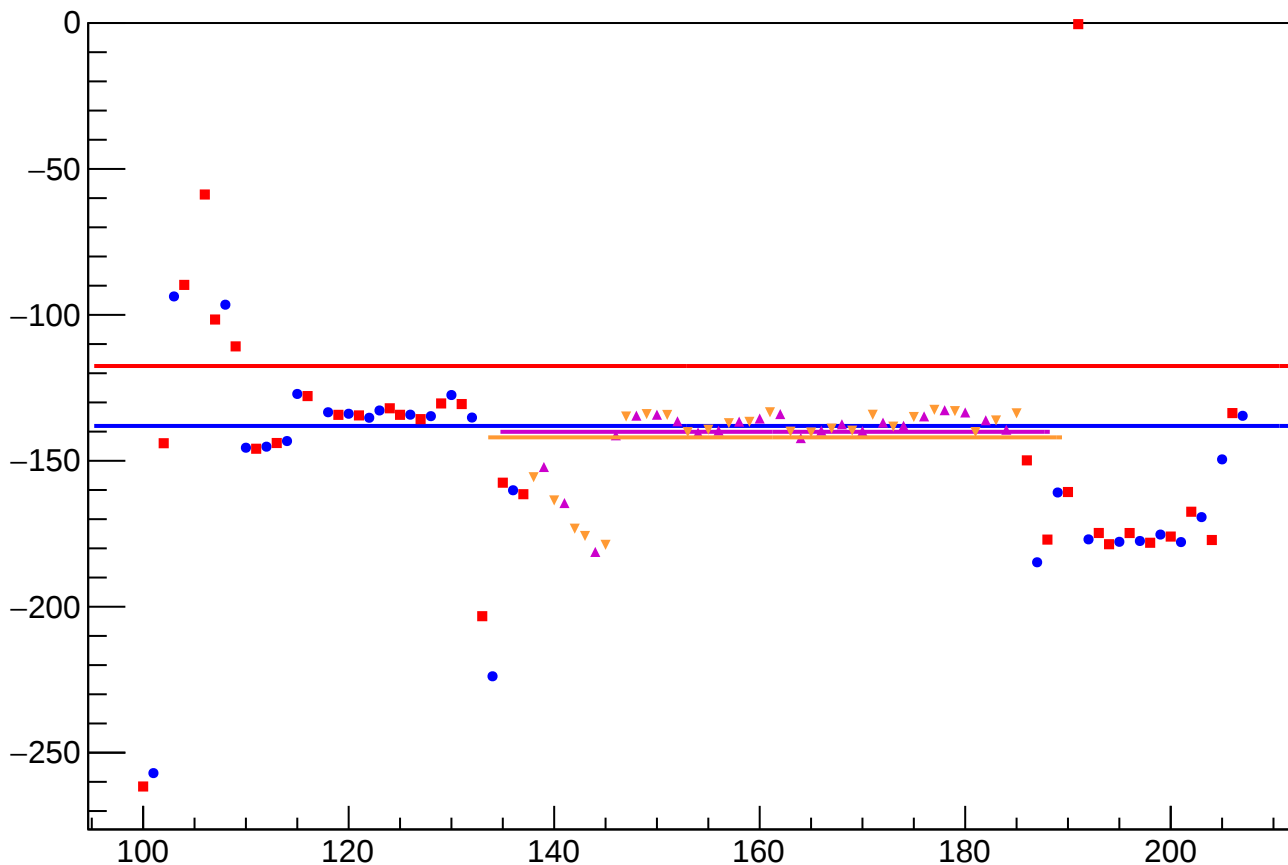
Right: 53.812+/-1.080 χ^2/NDF : 1403.3/57

In: 60.943+/-0.826 χ^2/NDF : 1379.5/49

Out: 57.946+/-0.786 χ^2/NDF : 1624.9/55

All: 59.370+/-0.570 χ^2/NDF : 3011.2/105

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.055 ± 0.077 $\chi^2/\text{NDF}: 233102.8/26$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -117.522 ± 0.067 $\chi^2/\text{NDF}: 608697.7/30$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

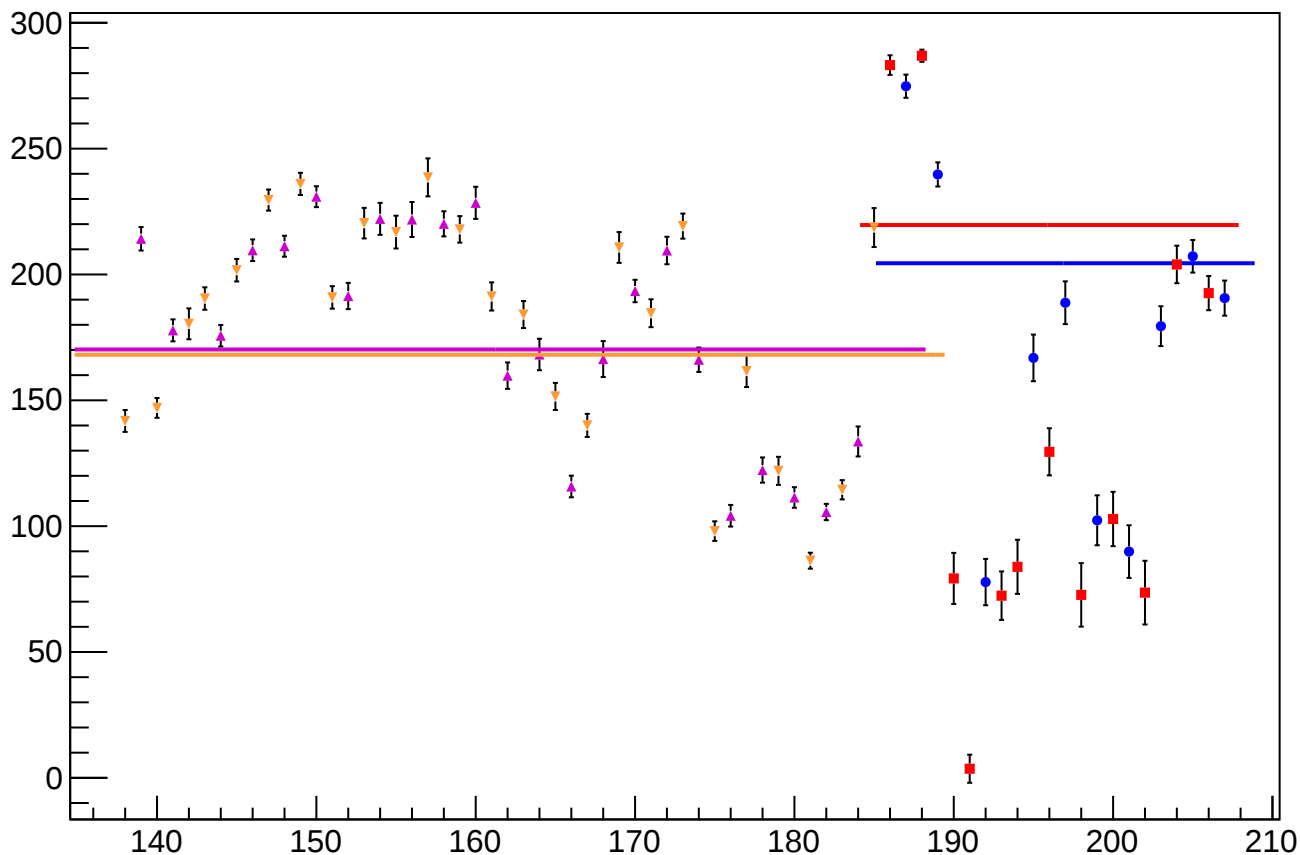
Right: -126.497 ± 0.051 $\chi^2/\text{NDF}: 882299.1/57$

In: -139.551 ± 0.039 $\chi^2/\text{NDF}: 281647.4/49$

Out: -134.509 ± 0.037 $\chi^2/\text{NDF}: 780215.3/55$

All: -136.929 ± 0.027 $\chi^2/\text{NDF}: 1070647.4/10$

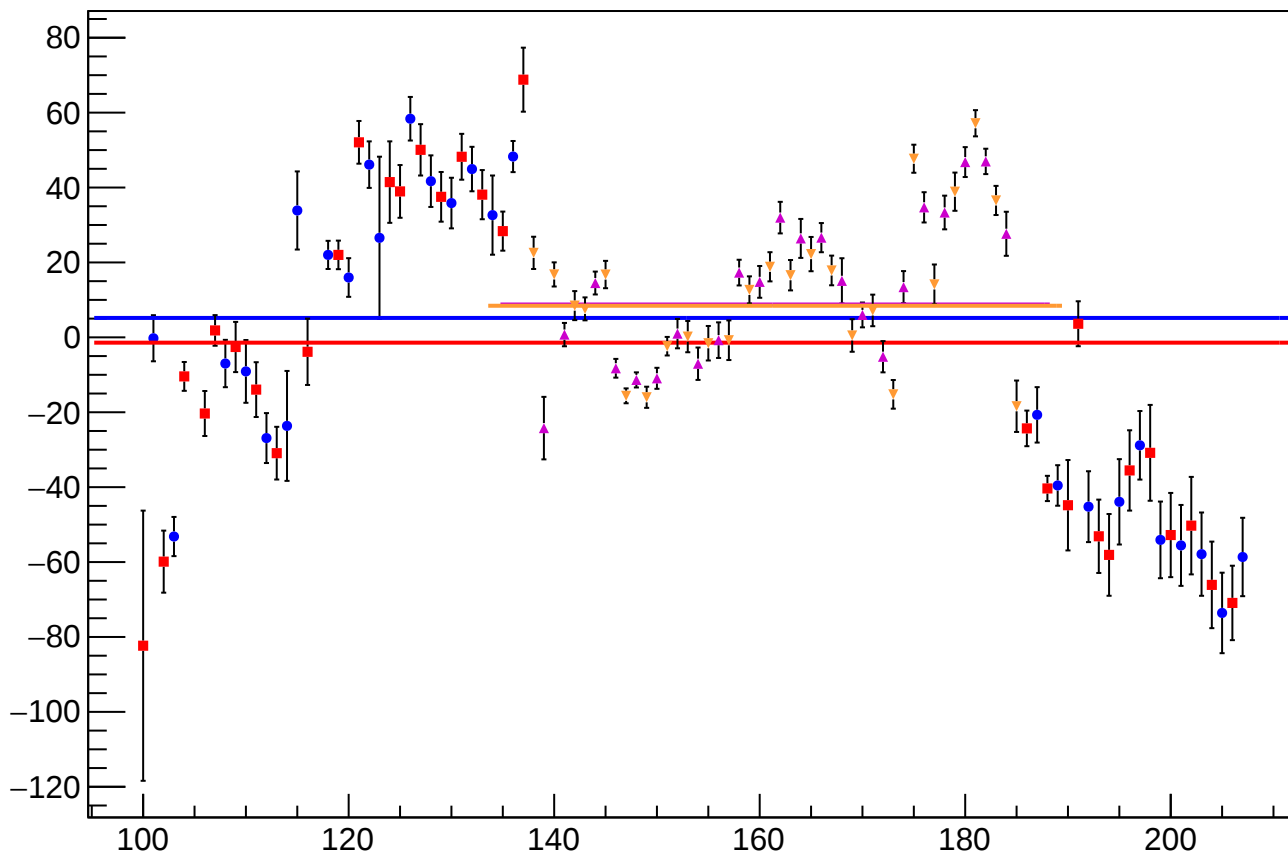
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 204.466 ± 2.195 $\chi^2/\text{NDF}: 736.9/9$
 Left Out: 168.106 ± 0.970 $\chi^2/\text{NDF}: 2468.8/24$
 Right Out: 219.647 ± 1.640 $\chi^2/\text{NDF}: 3626.0/11$
 Left In: 170.198 ± 0.995 $\chi^2/\text{NDF}: 2024.5/22$

Left: 169.125 ± 0.695 $\chi^2/\text{NDF}: 4495.5/47$
 Right: 214.208 ± 1.314 $\chi^2/\text{NDF}: 4393.6/21$
 In: 176.043 ± 0.907 $\chi^2/\text{NDF}: 2963.5/32$
 Out: 181.467 ± 0.835 $\chi^2/\text{NDF}: 6826.3/36$
 All: 178.977 ± 0.614 $\chi^2/\text{NDF}: 9809.2/69$

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.184 ± 1.325 $\chi^2/\text{NDF}: 856.1/26$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -1.420 ± 1.156 $\chi^2/\text{NDF}: 914.1/30$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

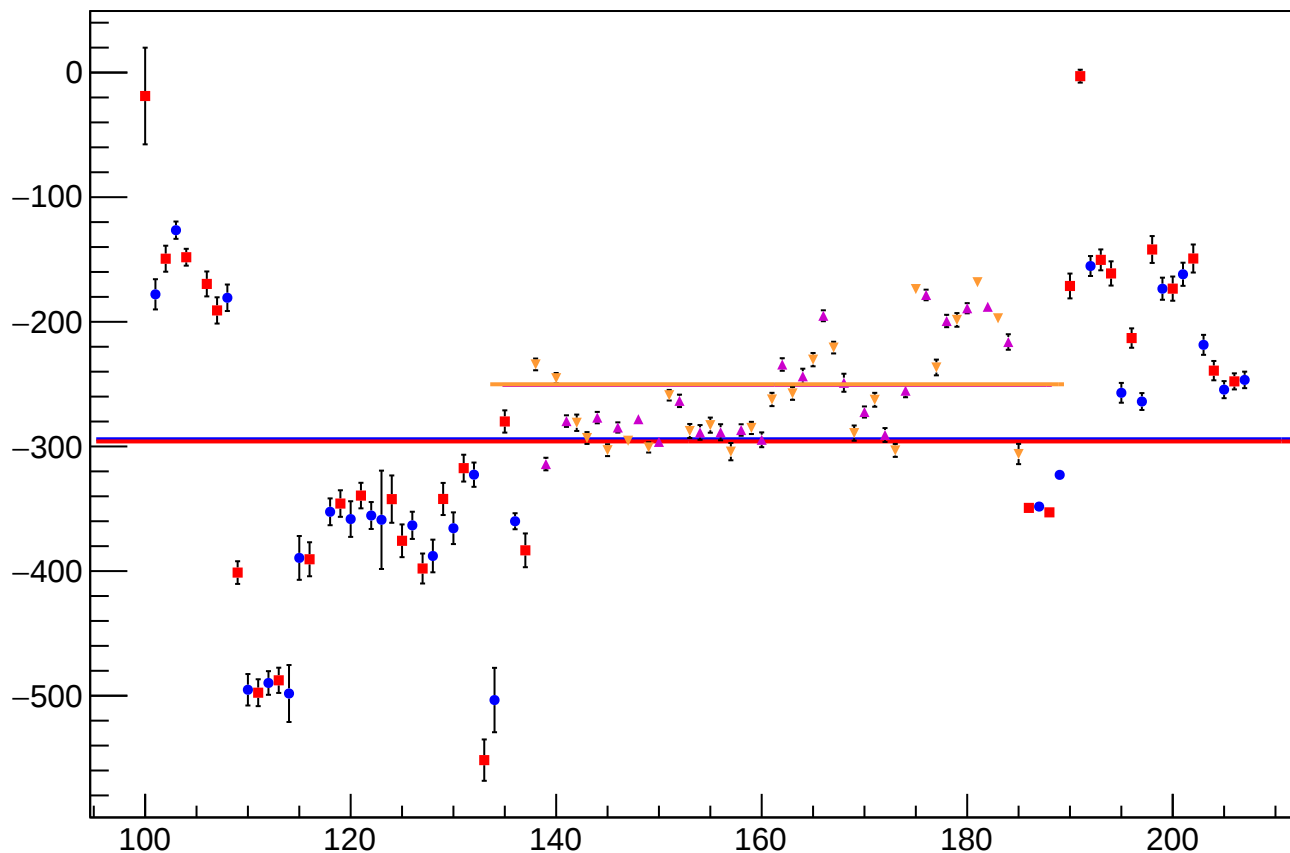
Right: 1.434 ± 0.871 $\chi^2/\text{NDF}: 1784.3/57$

In: 7.884 ± 0.658 $\chi^2/\text{NDF}: 1488.4/49$

Out: 5.636 ± 0.616 $\chi^2/\text{NDF}: 1718.2/55$

All: 6.686 ± 0.450 $\chi^2/\text{NDF}: 3212.9/105$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -294.230+/-1.564 χ^2/NDF : 3125.7/26

Left Out: -250.119+/-0.972 χ^2/NDF :2246.9/24

Right Out: -295.982+/-1.209 χ^2/NDF : 8109.9/30

Left In: -250.628+/-0.990 χ^2/NDF :1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

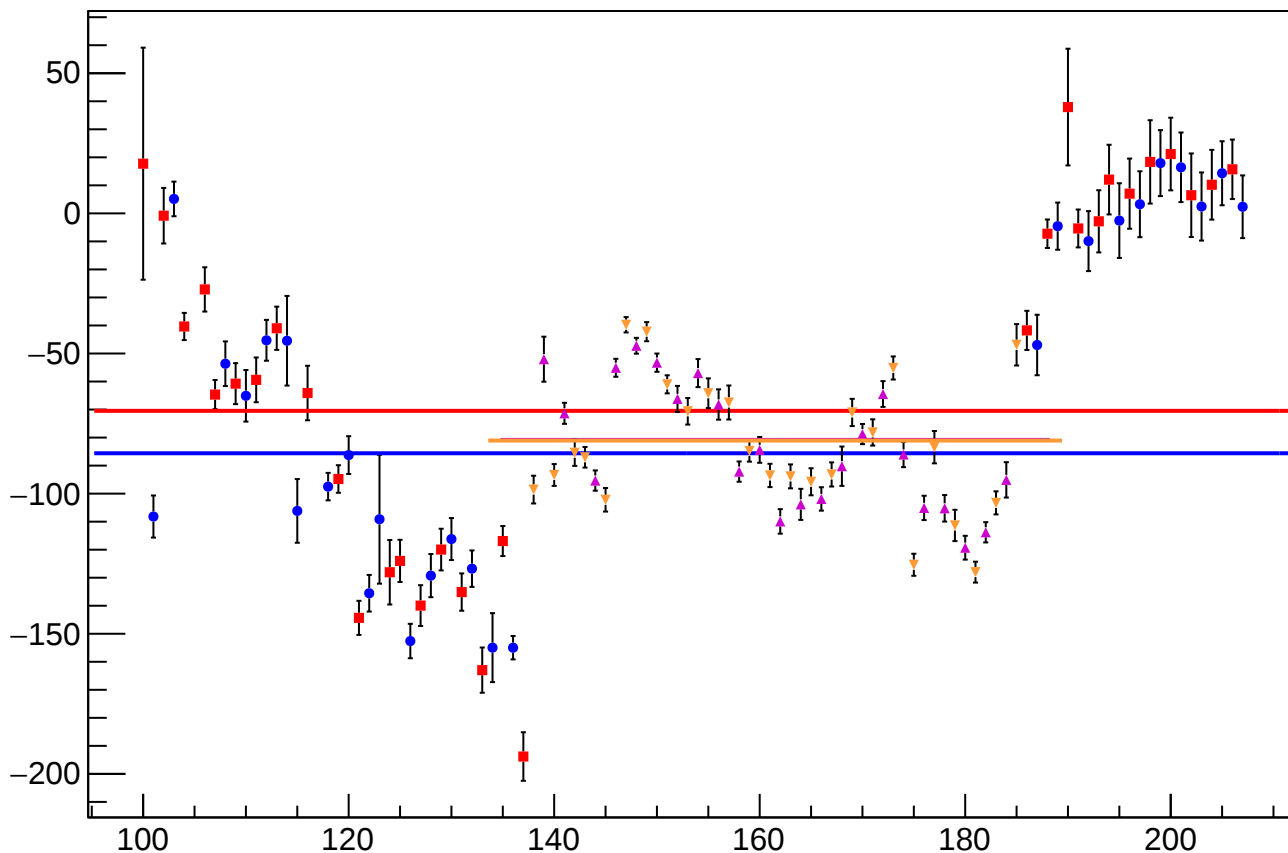
Right: -295.327+/-0.956 χ^2/NDF : 11236.3/57

In: -263.111+/-0.837 χ^2/NDF :5617.7/49

Out: -268.138+/-0.758 χ^2/NDF :11231.0/55

All: -265.873+/-0.562 χ^2/NDF : 16868.5/105

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -85.595 ± 1.543 $\chi^2/\text{NDF}: 1454.9/26$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -70.459 ± 1.388 $\chi^2/\text{NDF}: 1660.0/30$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

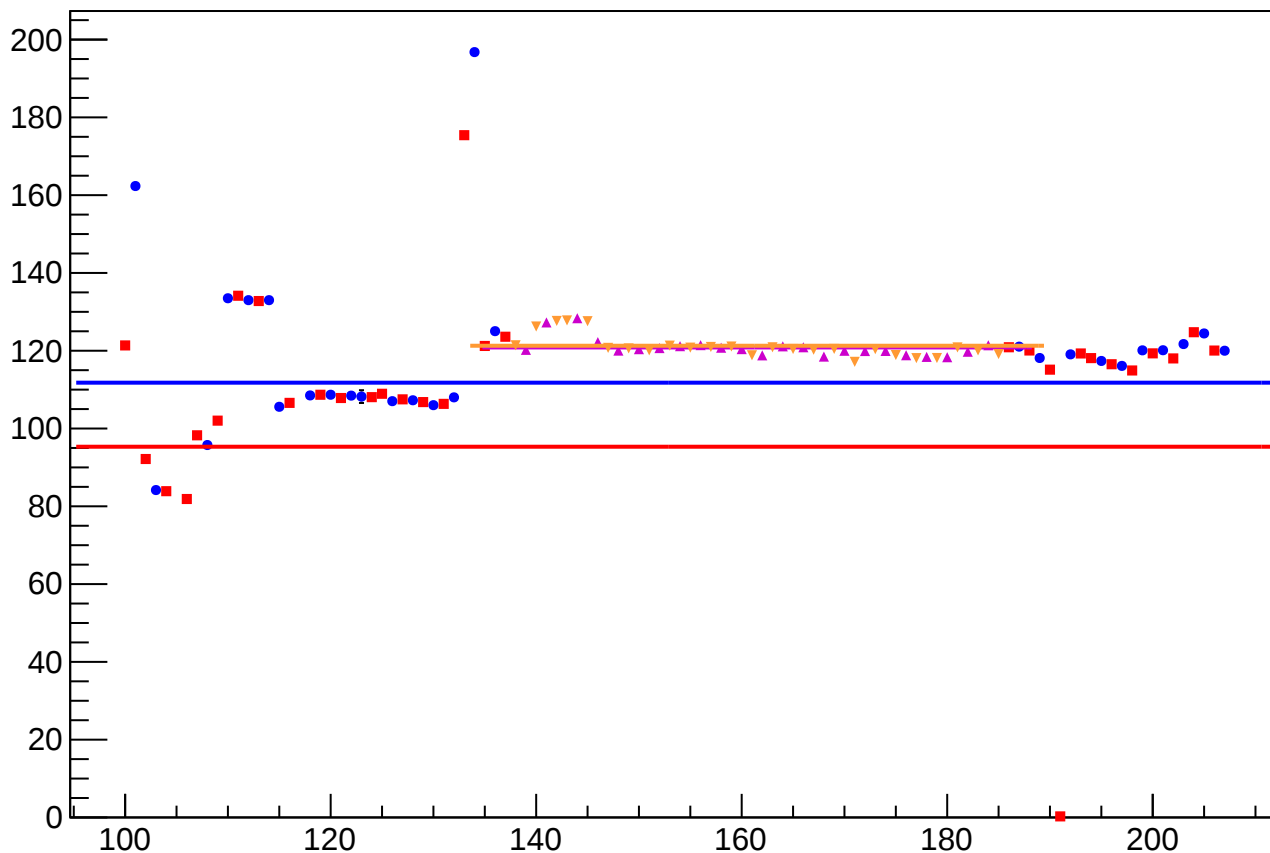
Right: -77.230 ± 1.032 $\chi^2/\text{NDF}: 3168.1/57$

In: -81.986 ± 0.759 $\chi^2/\text{NDF}: 2155.2/49$

Out: -78.200 ± 0.720 $\chi^2/\text{NDF}: 2615.6/55$

All: -79.995 ± 0.523 $\chi^2/\text{NDF}: 4784.0/105$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.786 $\pm$ 0.071 χ^2 /NDF: 78594.3/26

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 95.320 $\pm$ 0.062 χ^2 /NDF: 363471.7/30

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

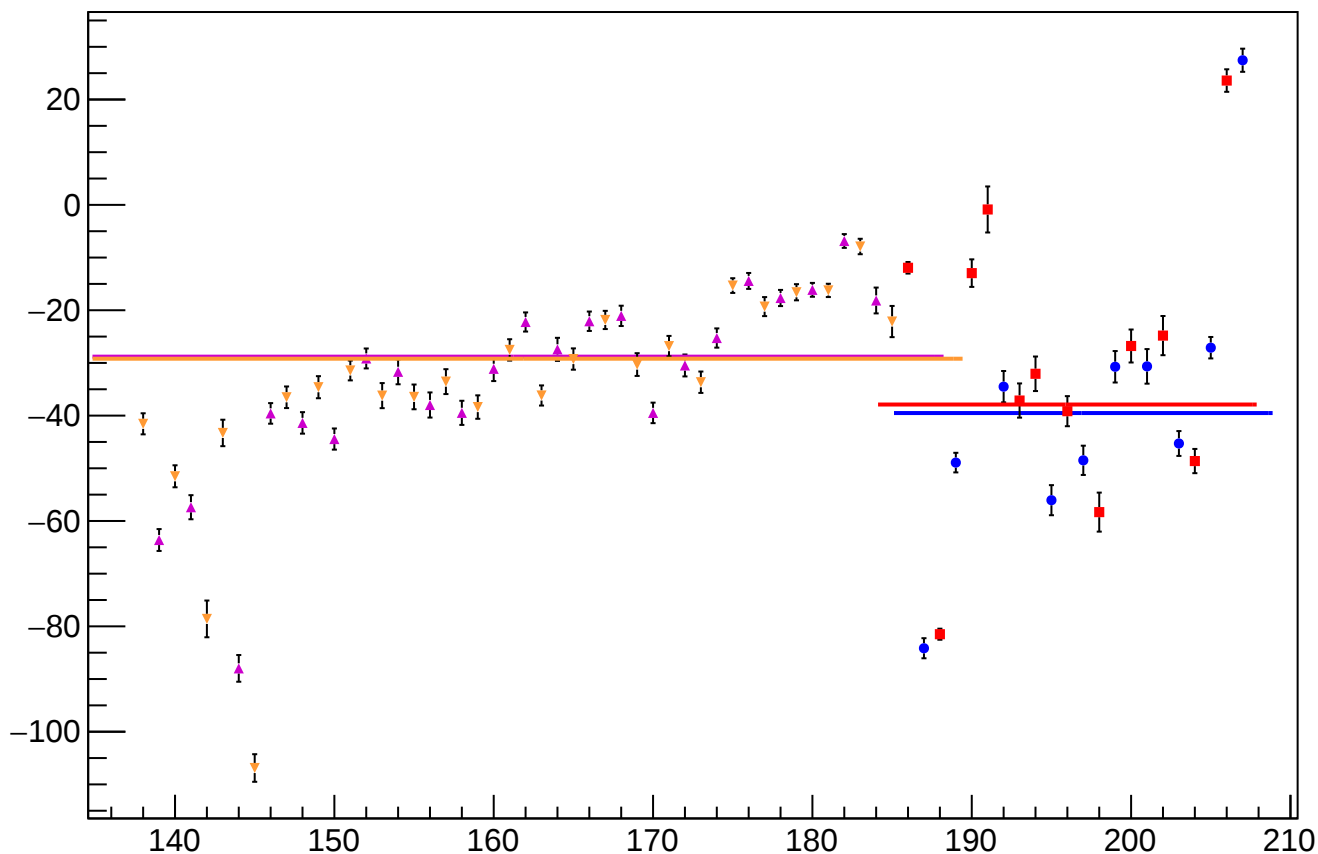
Right: 102.491 $\pm$ 0.047 χ^2 /NDF: 472326.8/57

In: 118.609 $\pm$ 0.035 χ^2 /NDF: 94179.3/49

Out: 113.705 $\pm$ 0.034 χ^2 /NDF: 490744.7/55

All: 116.046 $\pm$ 0.024 χ^2 /NDF: 595000.9/105

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected

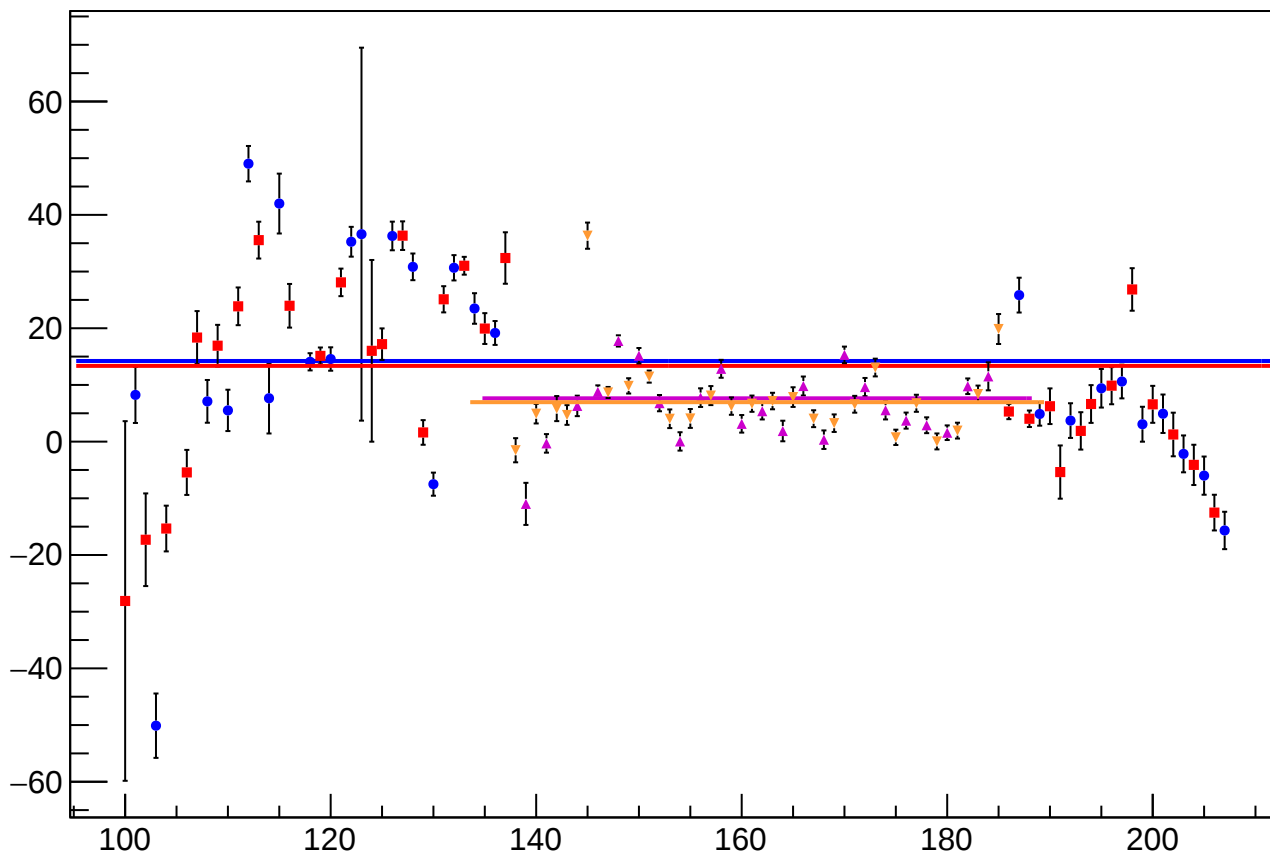


Right In: -39.513 ± 0.753 χ^2/NDF : 1609.4/9
 Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24
 Right Out: -37.895 ± 0.587 χ^2/NDF : 3356.1/11
 Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47
 Right: -38.506 ± 0.463 χ^2/NDF : 4968.3/21
 In: -31.122 ± 0.350 χ^2/NDF : 3531.5/32
 Out: -31.849 ± 0.324 χ^2/NDF : 5390.1/36

All: -31.513 ± 0.238 χ^2/NDF : 8924.0/69

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.226 $\pm$ 0.538 χ^2 /NDF: 882.3/26

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 13.363 $\pm$ 0.484 χ^2 /NDF: 716.9/30

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

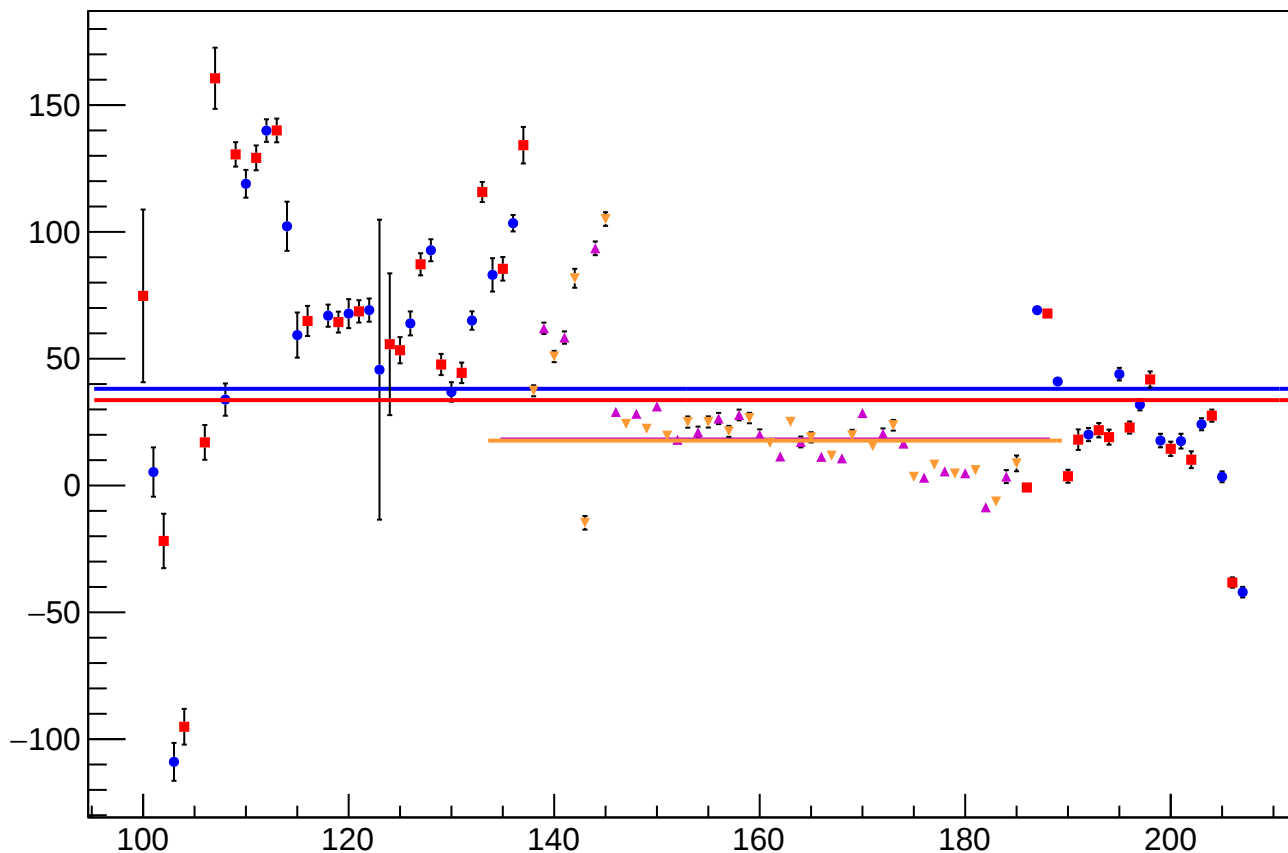
Right: 13.749 $\pm$ 0.360 χ^2 /NDF: 1600.6/57

In: 9.307 $\pm$ 0.271 χ^2 /NDF:1331.8/49

Out: 8.764 $\pm$ 0.257 χ^2 /NDF:1164.1/55

All: 9.021 $\pm$ 0.186 χ^2 /NDF: 2498.0/105

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 38.132 $\pm$ 0.592 χ^2 /NDF: 4334.3/26

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.658 $\pm$ 0.460 χ^2 /NDF: 7610.6/30

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

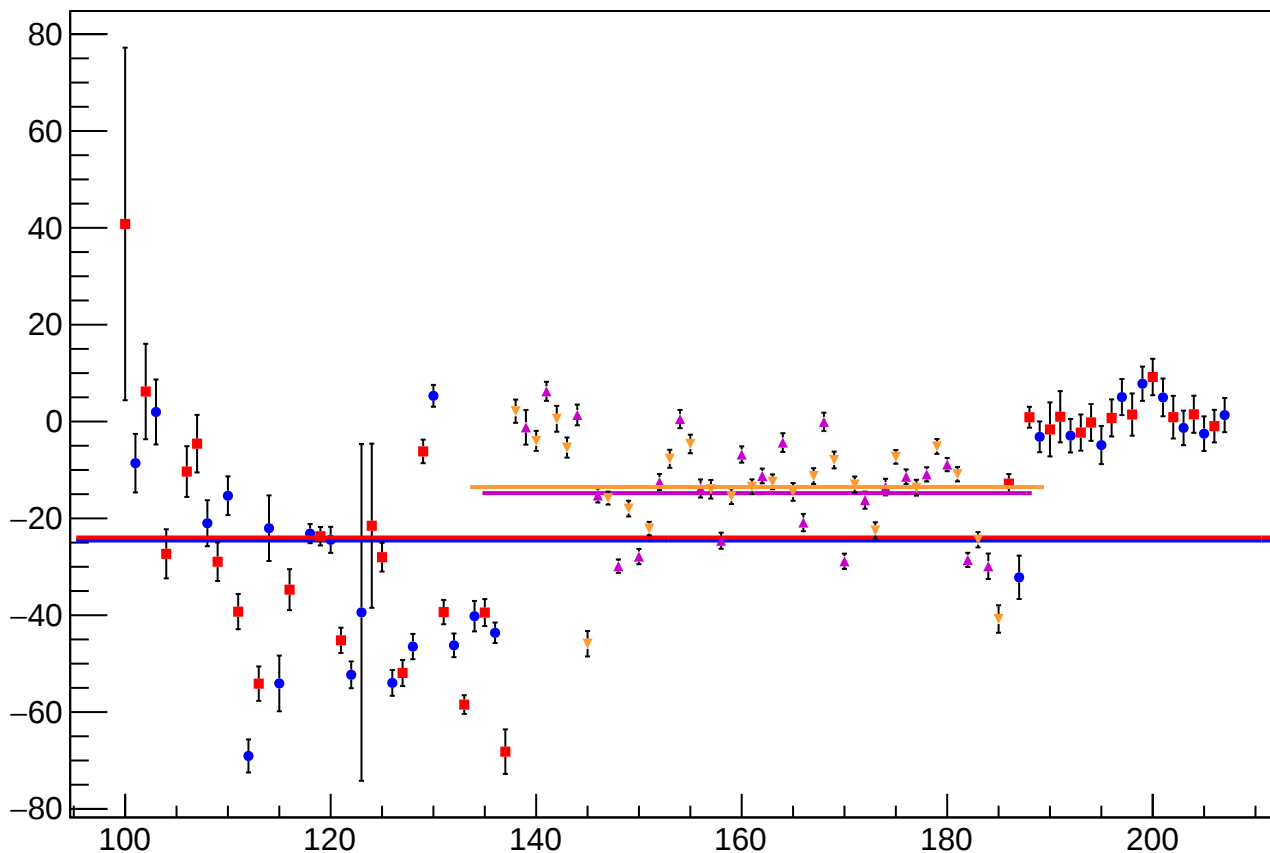
Right: 35.342 $\pm$ 0.363 χ^2 /NDF: 11980.6/57

In: 24.256 $\pm$ 0.327 χ^2 /NDF:7465.3/49

Out: 24.322 $\pm$ 0.296 χ^2 /NDF:10746.8/55

All: 24.292 $\pm$ 0.220 χ^2 /NDF: 18212.2/105

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.564 ± 0.627 $\chi^2/\text{NDF}: 1329.3/26$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -23.945 ± 0.585 $\chi^2/\text{NDF}: 1392.1/30$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

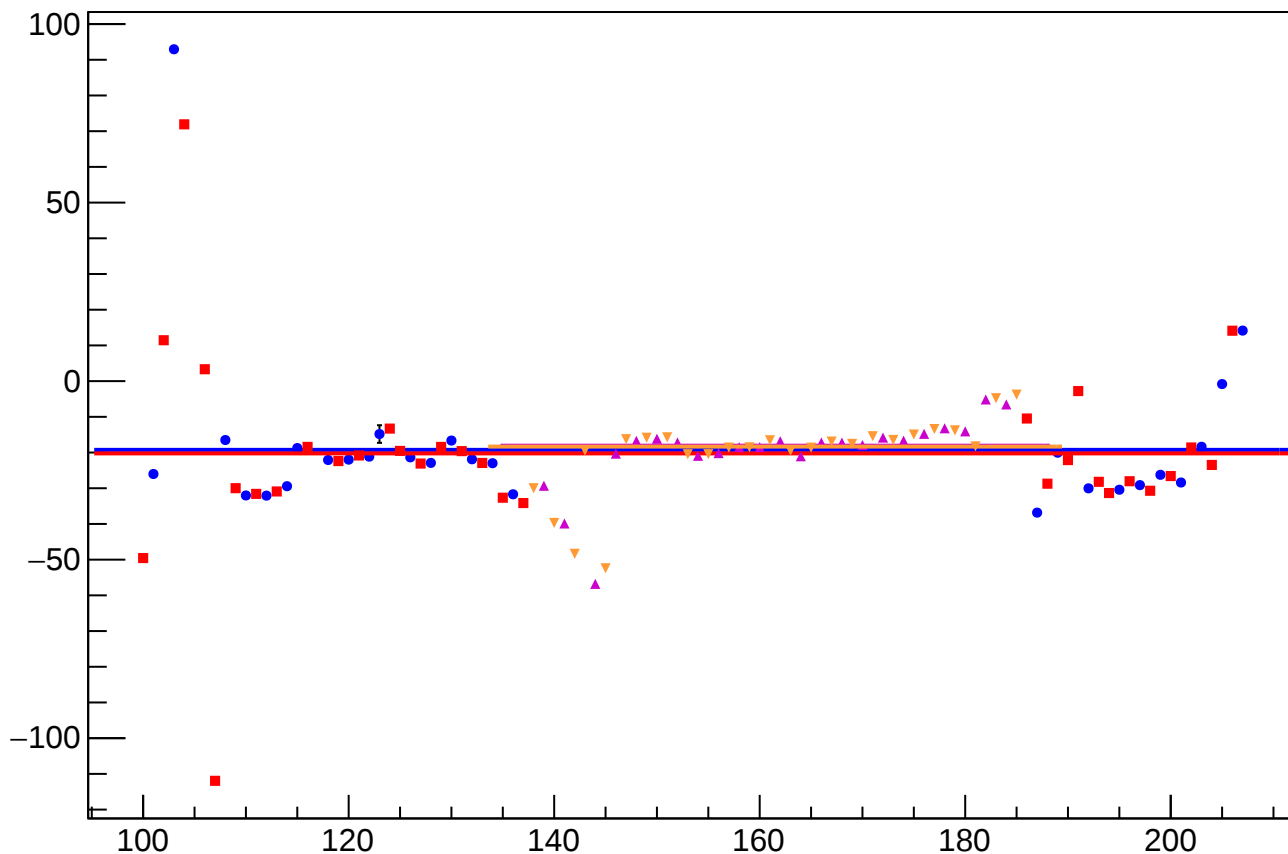
Right: -24.234 ± 0.428 $\chi^2/\text{NDF}: 2721.9/57$

In: -17.147 ± 0.308 $\chi^2/\text{NDF}: 2352.2/49$

Out: -16.205 ± 0.297 $\chi^2/\text{NDF}: 2200.2/55$

All: -16.658 ± 0.214 $\chi^2/\text{NDF}: 4557.3/105$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.248 ± 0.030 $\chi^2/\text{NDF}: 594763.7/26$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -20.244 ± 0.028 $\chi^2/\text{NDF}: 561374.7/30$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

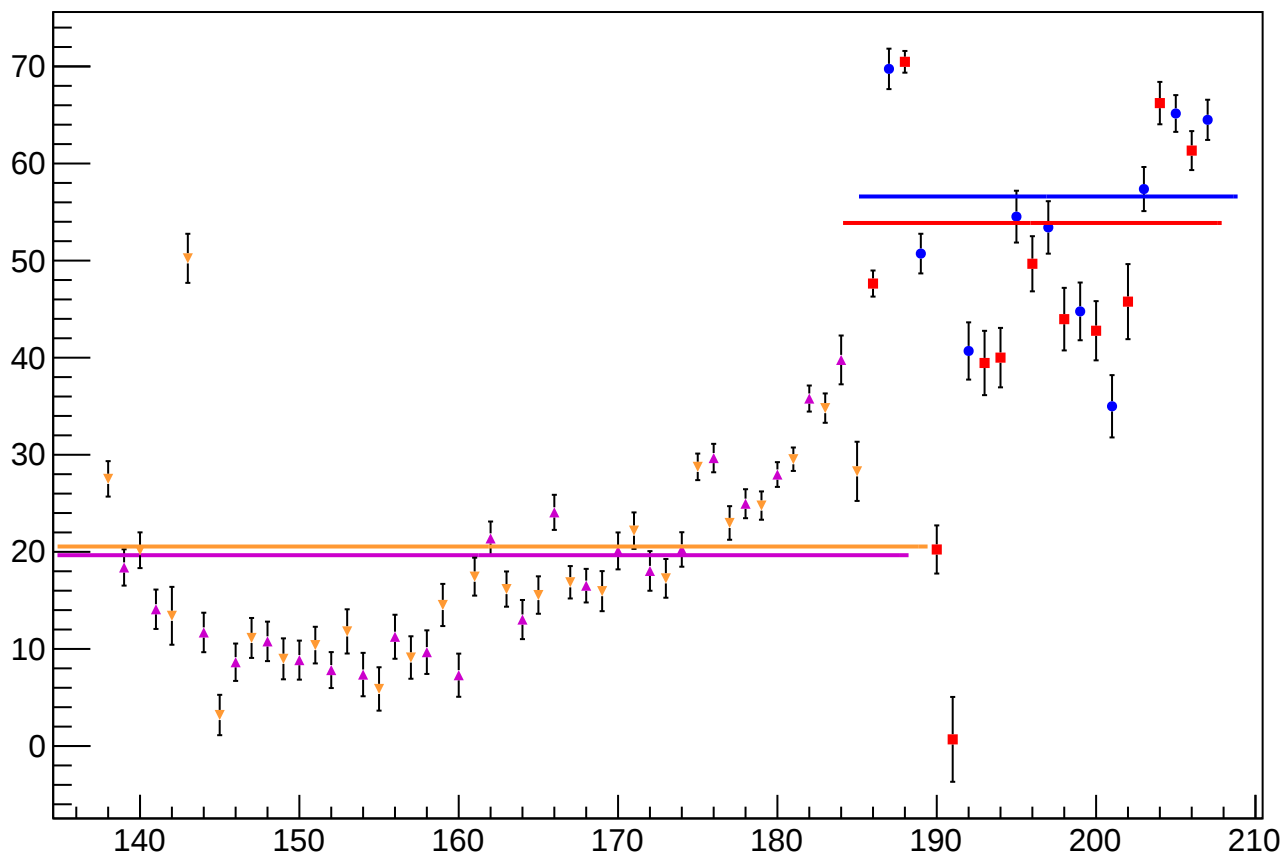
Right: -19.773 ± 0.021 $\chi^2/\text{NDF}: 1156719.9/57$

In: -18.344 ± 0.014 $\chi^2/\text{NDF}: 837886.7/49$

Out: -18.787 ± 0.014 $\chi^2/\text{NDF}: 848972.2/55$

All: -18.571 ± 0.010 $\chi^2/\text{NDF}: 1687358.7/105$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 56.604 $\pm$ 0.750 χ^2 /NDF: 175.5/9

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 53.876 $\pm$ 0.618 χ^2 /NDF: 688.5/11

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

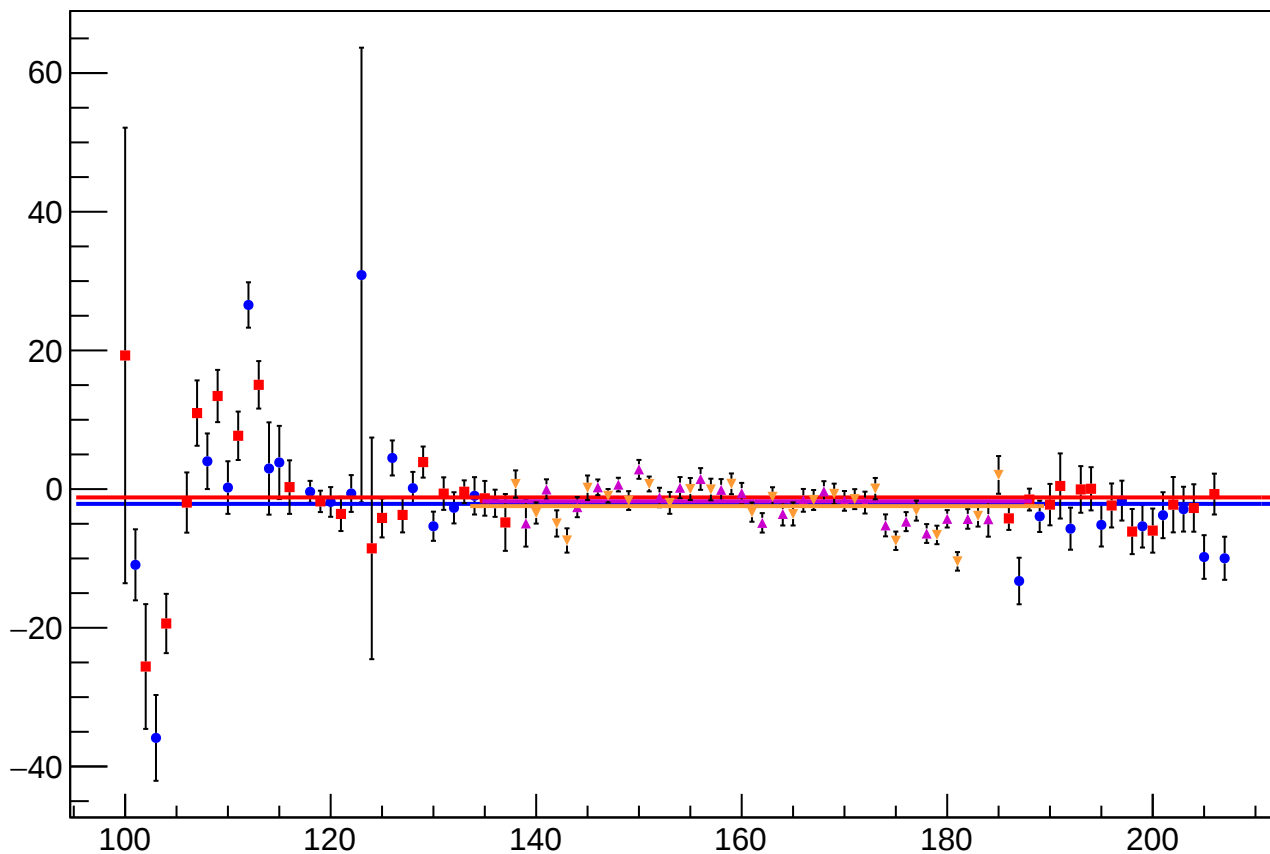
Right: 54.979 $\pm$ 0.477 χ^2 /NDF: 871.9/21

In: 27.221 $\pm$ 0.339 χ^2 /NDF: 2678.9/32

Out: 29.453 $\pm$ 0.319 χ^2 /NDF: 3446.8/36

All: 28.405 $\pm$ 0.233 χ^2 /NDF: 6148.7/69

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.129 ± 0.543 χ^2/NDF : 154.8/26

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.198 ± 0.501 χ^2/NDF : 95.2/30

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

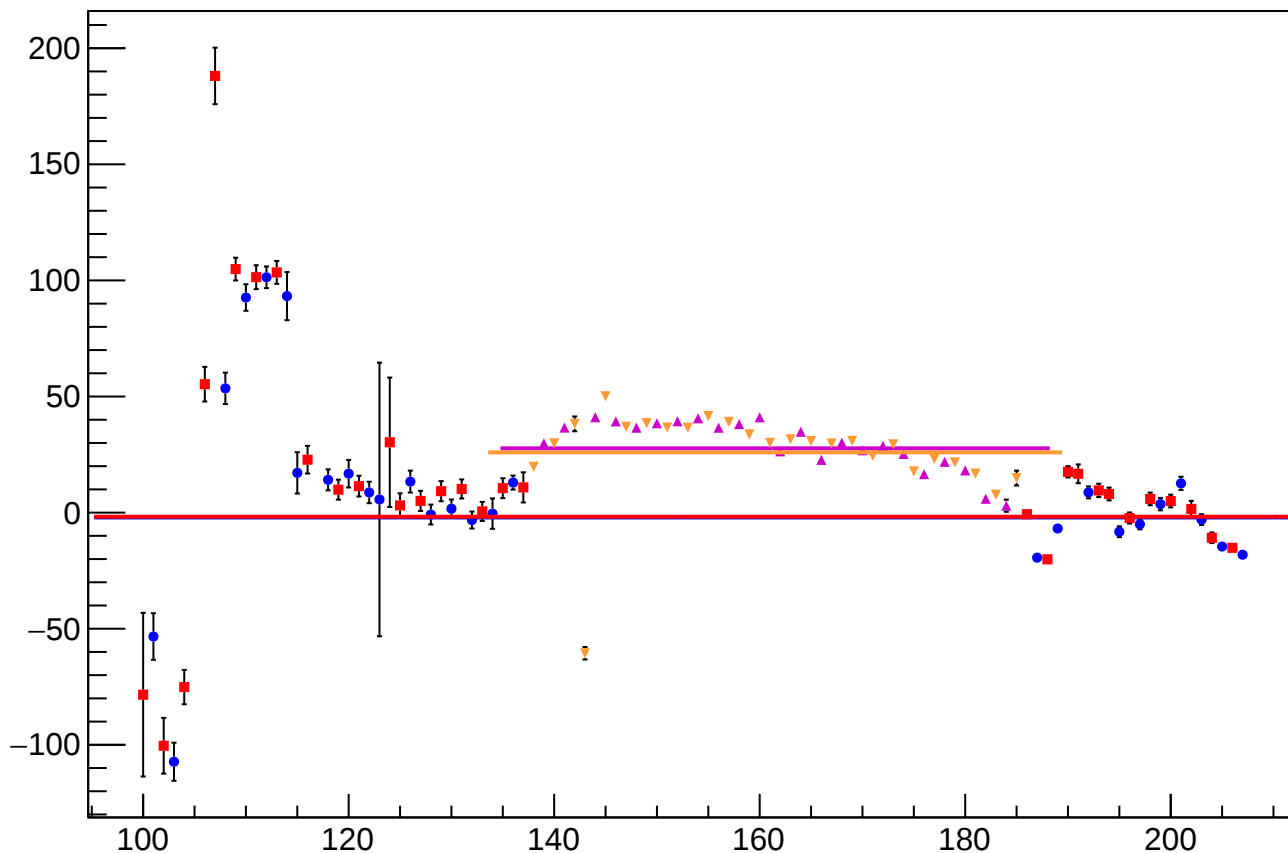
Right: -1.626 ± 0.368 χ^2/NDF : 251.6/57

In: -1.846 ± 0.264 χ^2/NDF : 222.6/49

Out: -2.136 ± 0.252 χ^2/NDF : 205.9/55

All: -1.997 ± 0.182 χ^2/NDF : 429.1/105

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.075 ± 0.596 χ^2/NDF : 1452.6/26

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -1.780 ± 0.487 χ^2/NDF : 2476.3/30

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

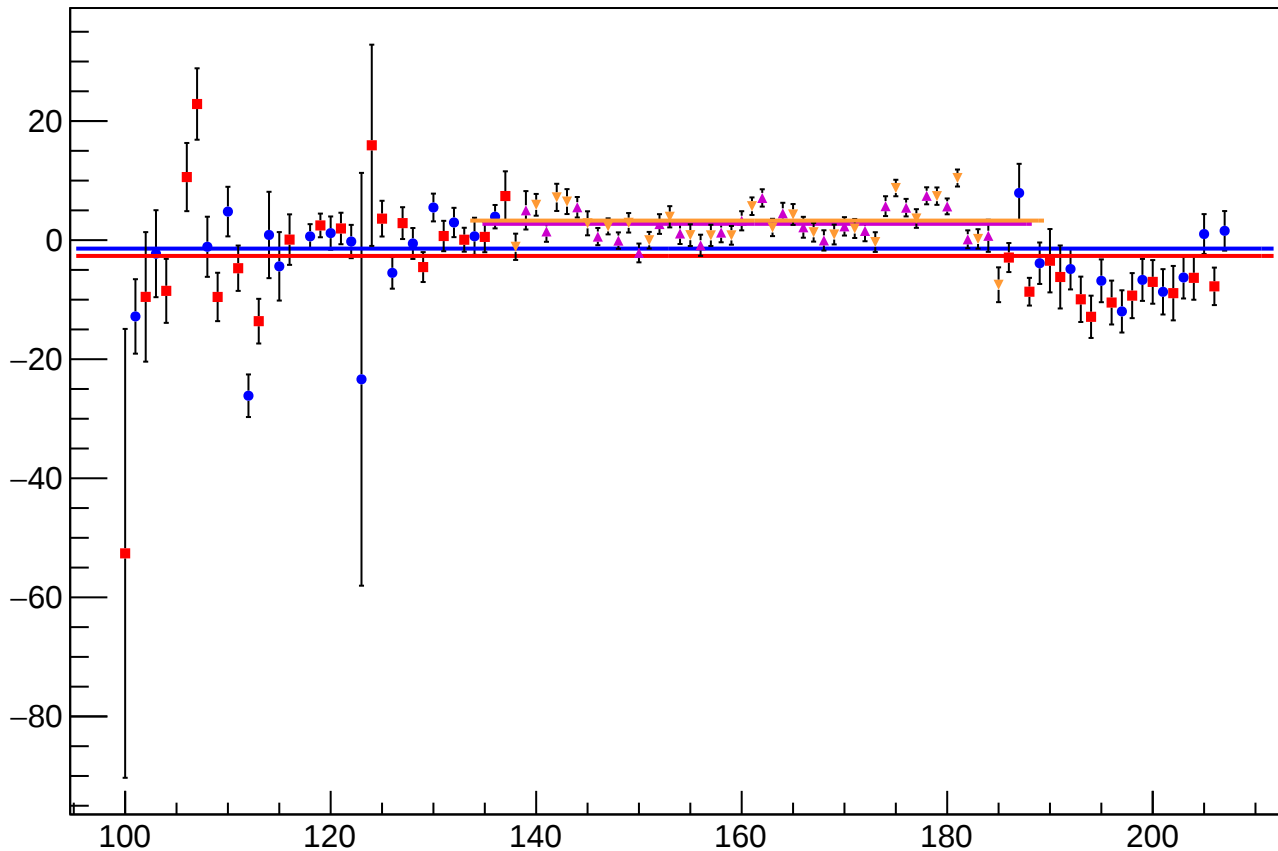
Right: -1.898 ± 0.377 χ^2/NDF : 3929.1/57

In: 19.139 ± 0.319 χ^2/NDF : 4032.1/49

Out: 15.719 ± 0.296 χ^2/NDF : 6231.1/55

All: 17.298 ± 0.217 χ^2/NDF : 10325.0/105

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.423 ± 0.628 χ^2/NDF : 103.7/26

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.653 ± 0.599 χ^2/NDF : 103.6/30

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

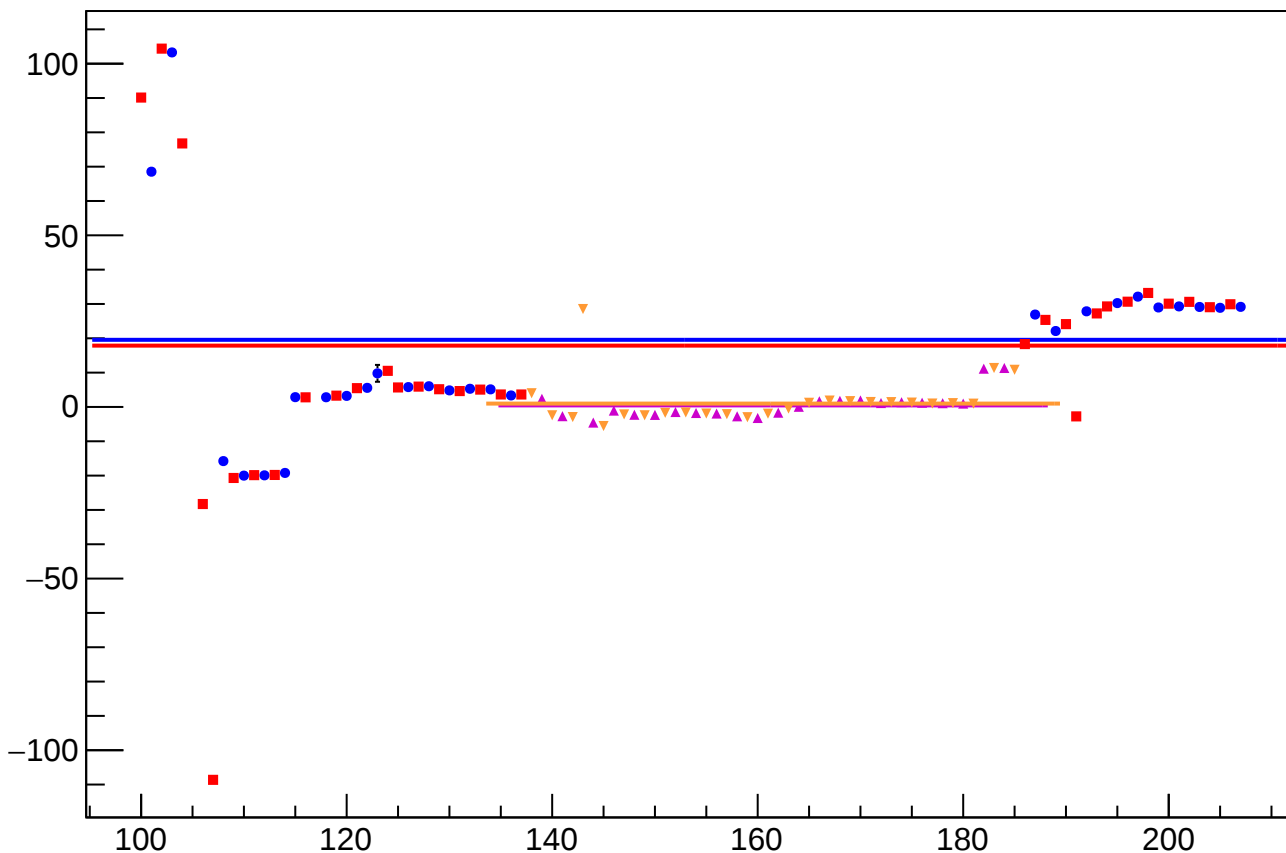
Right: -2.067 ± 0.433 χ^2/NDF : 209.3/57

In: 1.789 ± 0.300 χ^2/NDF : 202.1/49

Out: 1.890 ± 0.290 χ^2/NDF : 281.1/55

All: 1.841 ± 0.208 χ^2/NDF : 483.3/105

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 19.557 $\pm$ 0.030 χ^2 /NDF: 488134.6/26

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF:117391.3/24

Right Out: 17.867 $\pm$ 0.028 χ^2 /NDF: 722911.5/30

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF:50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

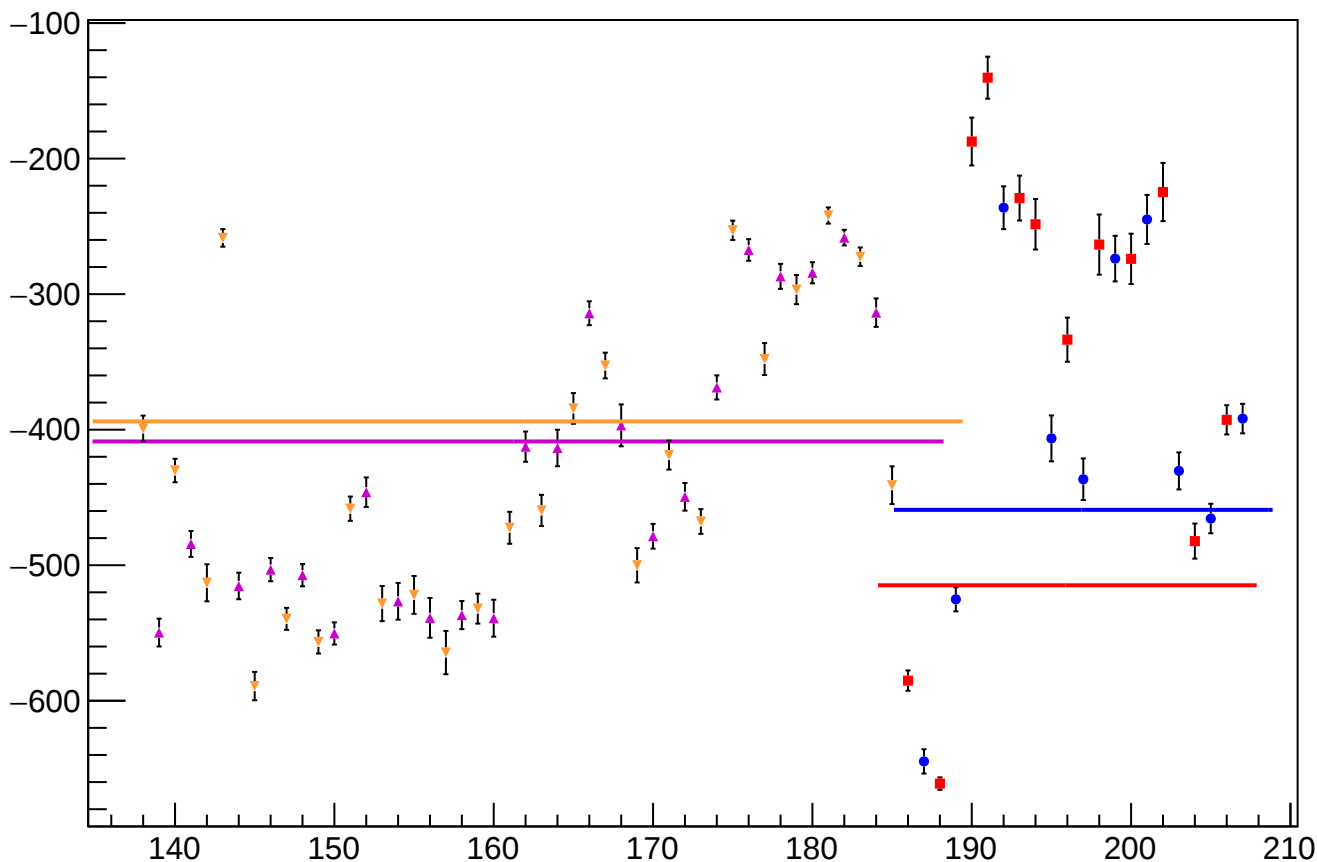
Right: 18.675 $\pm$ 0.020 χ^2 /NDF: 1212753.0/57

In: 4.545 $\pm$ 0.014 χ^2 /NDF:867312.5/49

Out: 4.761 $\pm$ 0.013 χ^2 /NDF:1117064.4/55

All: 4.655 $\pm$ 0.010 χ^2 /NDF: 1984503.8/105

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -459.159+/-3.900 χ^2/NDF : 999.6/9

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -514.796+/-3.093 χ^2/NDF : 3268.8/11

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

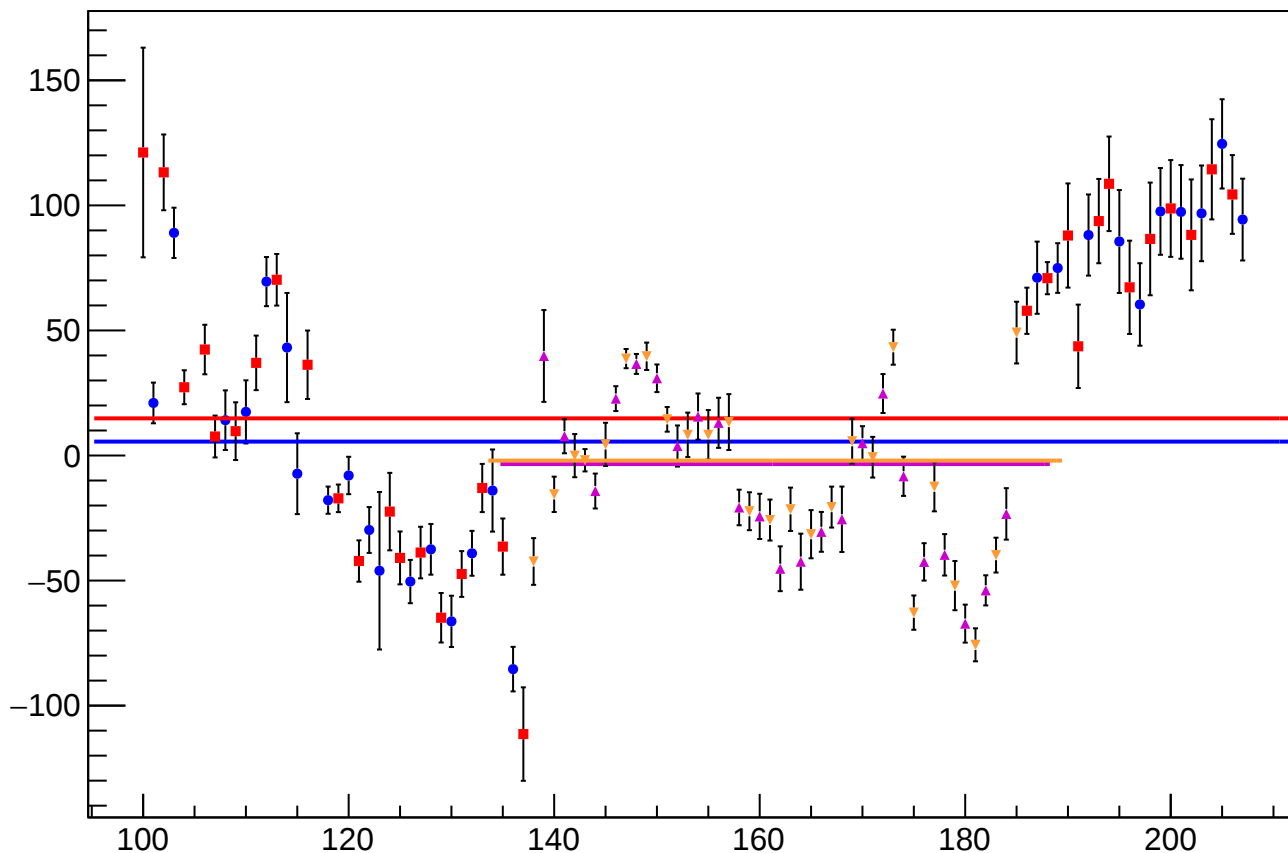
Right: -493.315+/-2.423 χ^2/NDF : 4393.3/21

In: -419.028+/-1.765 χ^2/NDF : 4195.6/32

Out: -426.925+/-1.617 χ^2/NDF : 8152.3/36

All: -423.321+/-1.192 χ^2/NDF : 12358.8/69

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.562 ± 2.126 $\chi^2/\text{NDF}: 669.4/26$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 14.850 ± 1.962 $\chi^2/\text{NDF}: 688.5/30$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

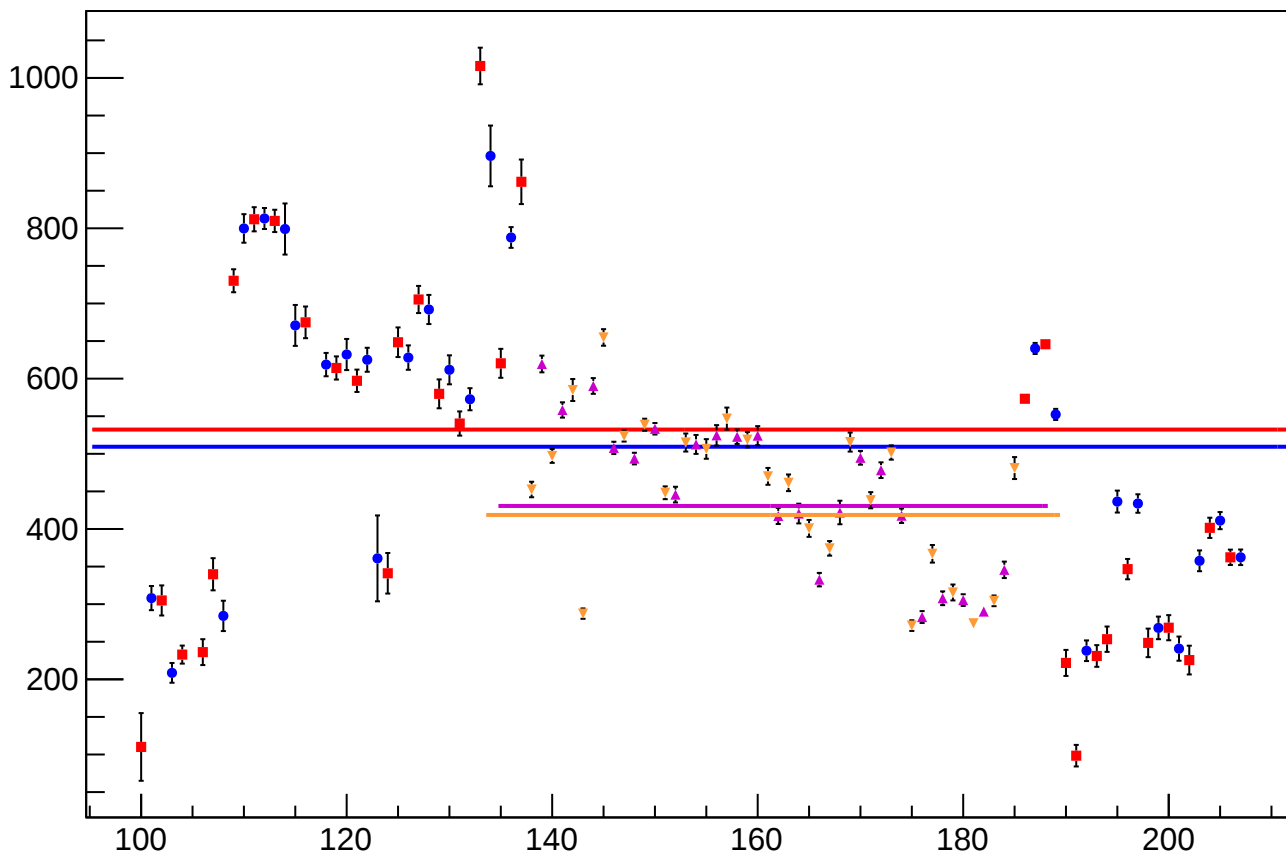
Right: 10.579 ± 1.442 $\chi^2/\text{NDF}: 1368.2/57$

In: -0.382 ± 1.237 $\chi^2/\text{NDF}: 1132.1/49$

Out: 3.791 ± 1.153 $\chi^2/\text{NDF}: 1300.8/55$

All: 1.851 ± 0.843 $\chi^2/\text{NDF}: 2439.0/105$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 509.416 $\pm$ 2.707 χ^2 /NDF: 4183.4/26

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 532.262 $\pm$ 2.205 χ^2 /NDF: 7076.9/30

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

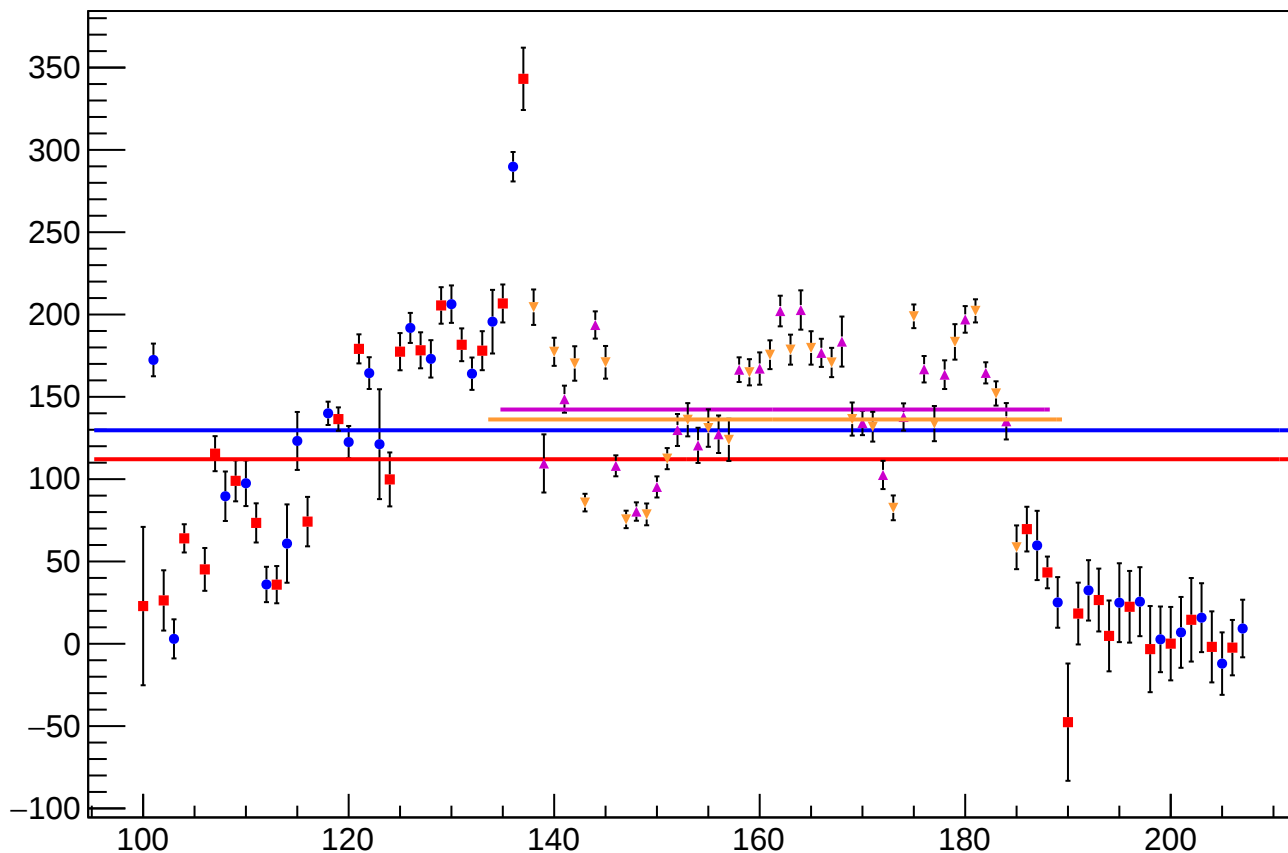
Right: 523.152 $\pm$ 1.709 χ^2 /NDF: 11303.0/57

In: 457.928 $\pm$ 1.593 χ^2 /NDF:7587.4/49

Out: 467.230 $\pm$ 1.441 χ^2 /NDF:11893.1/55

All: 463.043 $\pm$ 1.069 χ^2 /NDF: 19499.3/105

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 129.681 $\pm$ 2.483 χ^2/NDF : 1031.0/26

Left Out: 136.258 $\pm$ 1.651 χ^2/NDF : 758.3/24

Right Out: 112.097 $\pm$ 2.336 χ^2/NDF : 955.0/30

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

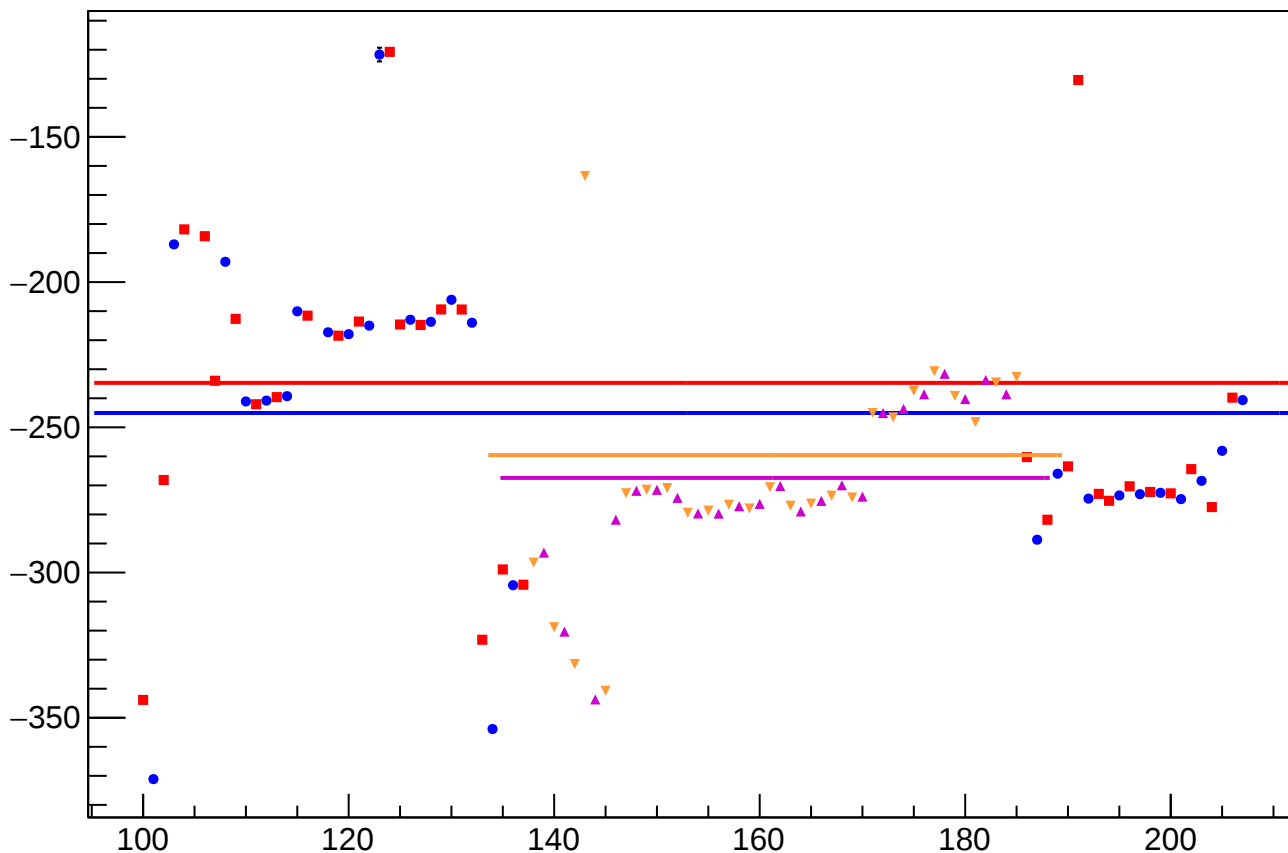
Right: 120.352 $\pm$ 1.702 χ^2/NDF : 2012.6/57

In: 138.128 $\pm$ 1.428 χ^2/NDF : 1508.1/49

Out: 128.210 $\pm$ 1.348 χ^2/NDF : 1784.6/55

All: 132.886 $\pm$ 0.980 χ^2/NDF : 3318.2/105

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.062 ± 0.124 $\chi^2/\text{NDF}: 163591.1/26$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -234.691 ± 0.114 $\chi^2/\text{NDF}: 174147.1/30$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

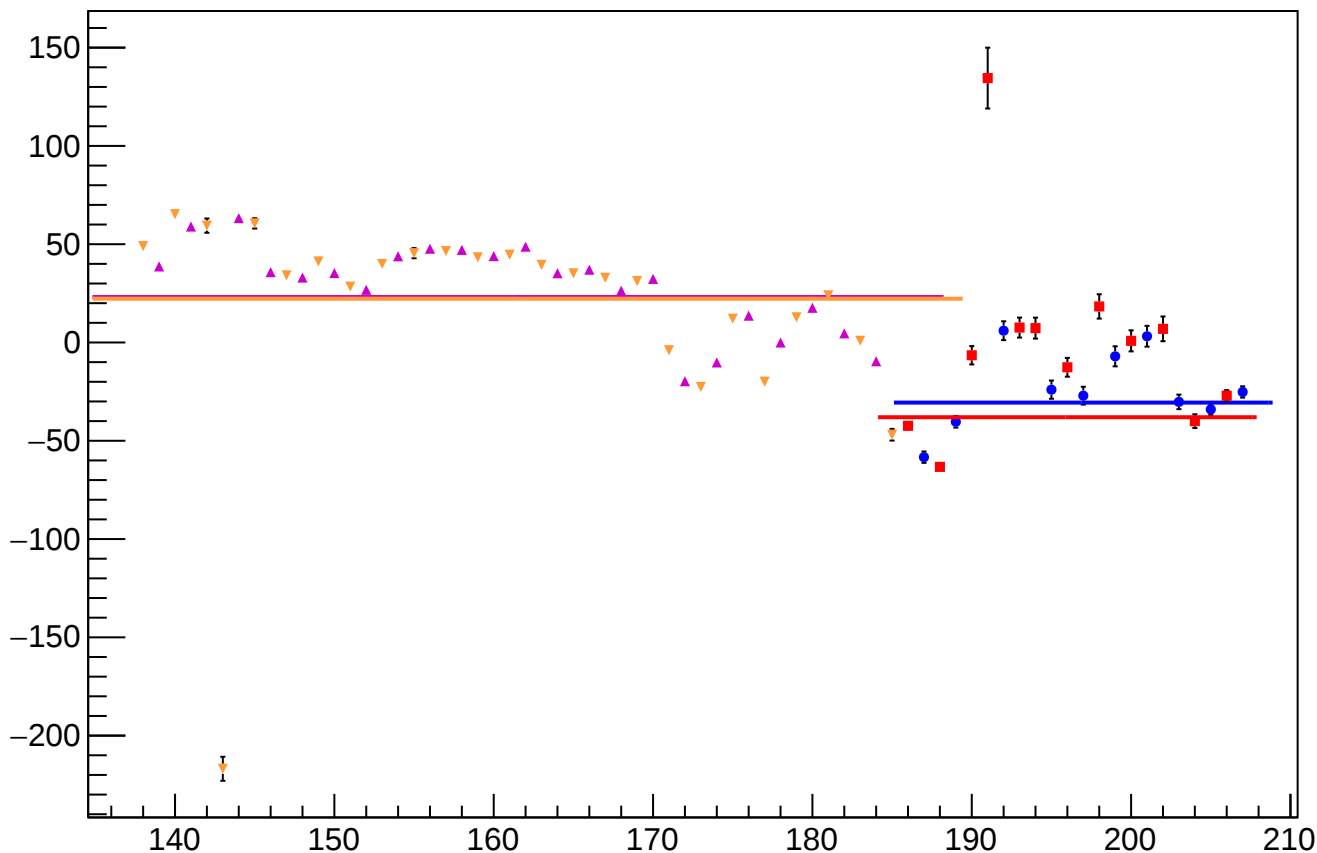
Right: -239.461 ± 0.084 $\chi^2/\text{NDF}: 341528.4/57$

In: -260.638 ± 0.068 $\chi^2/\text{NDF}: 284346.1/49$

Out: -251.502 ± 0.065 $\chi^2/\text{NDF}: 444403.4/55$

All: -255.854 ± 0.047 $\chi^2/\text{NDF}: 738153.1/105$

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.580 ± 1.143 $\chi^2/\text{NDF}: 231.4/9$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -38.024 ± 0.913 $\chi^2/\text{NDF}: 821.0/11$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

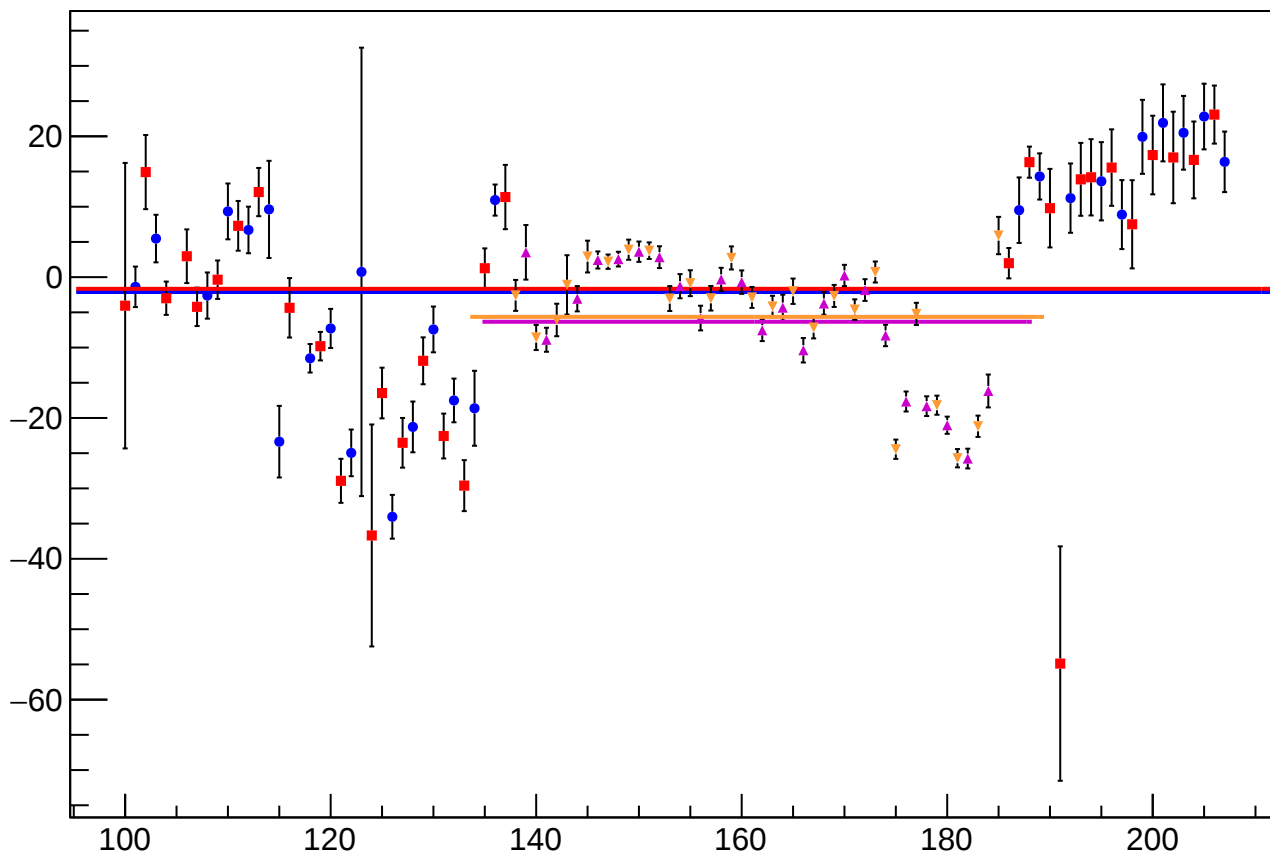
Right: -35.127 ± 0.713 $\chi^2/\text{NDF}: 1078.2/21$

In: 17.240 ± 0.379 $\chi^2/\text{NDF}: 4941.3/32$

Out: 12.612 ± 0.365 $\chi^2/\text{NDF}: 9658.1/36$

All: 14.843 ± 0.263 $\chi^2/\text{NDF}: 14676.7/69$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.111 ± 0.696 χ^2/NDF : 473.2/26

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -1.658 ± 0.638 χ^2/NDF : 490.1/30

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

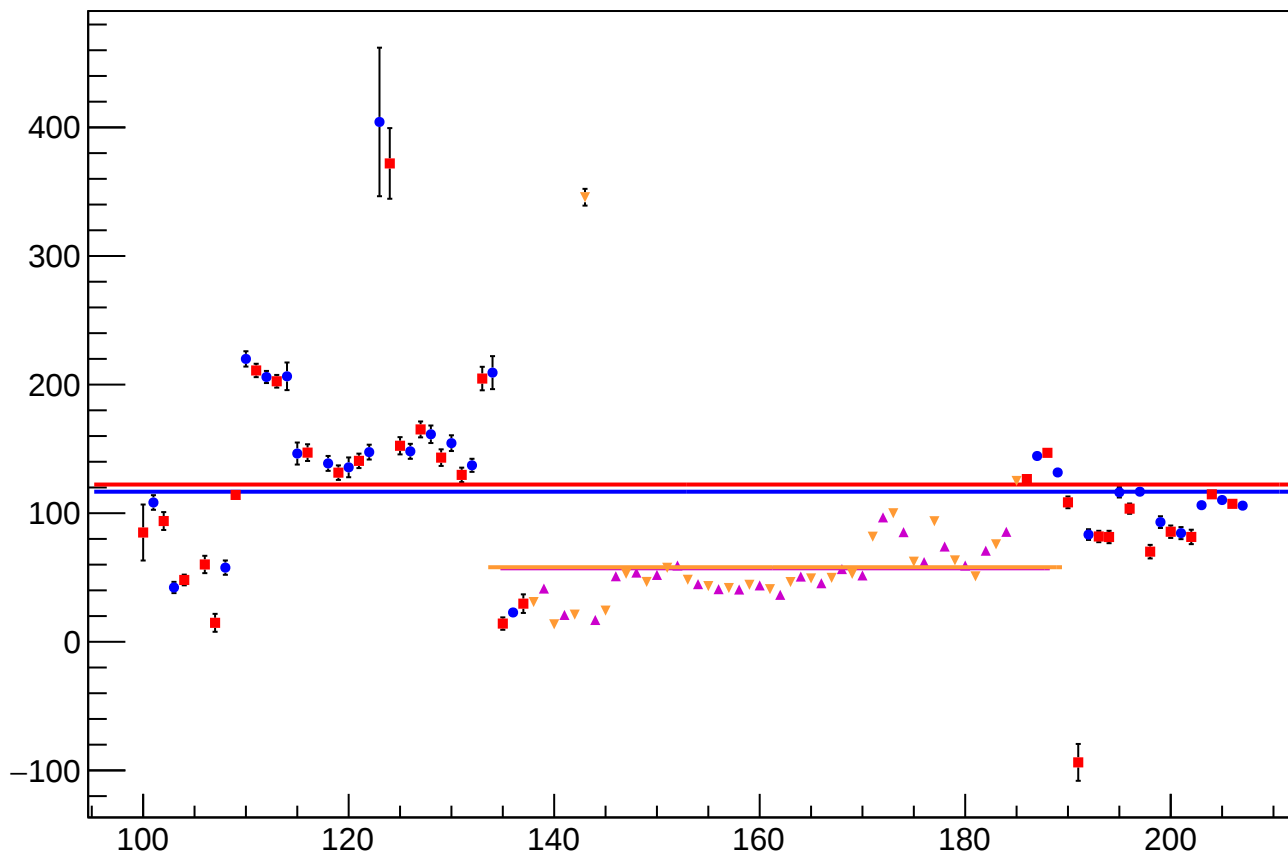
Right: -1.865 ± 0.470 χ^2/NDF : 963.5/57

In: -5.596 ± 0.292 χ^2/NDF : 1286.5/49

Out: -4.859 ± 0.283 χ^2/NDF : 1415.2/55

All: -5.216 ± 0.203 χ^2/NDF : 2705.0/105

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 116.711 $\pm$ 0.833 χ^2 /NDF: 2498.1/26

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 122.291 $\pm$ 0.672 χ^2 /NDF: 3211.9/30

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

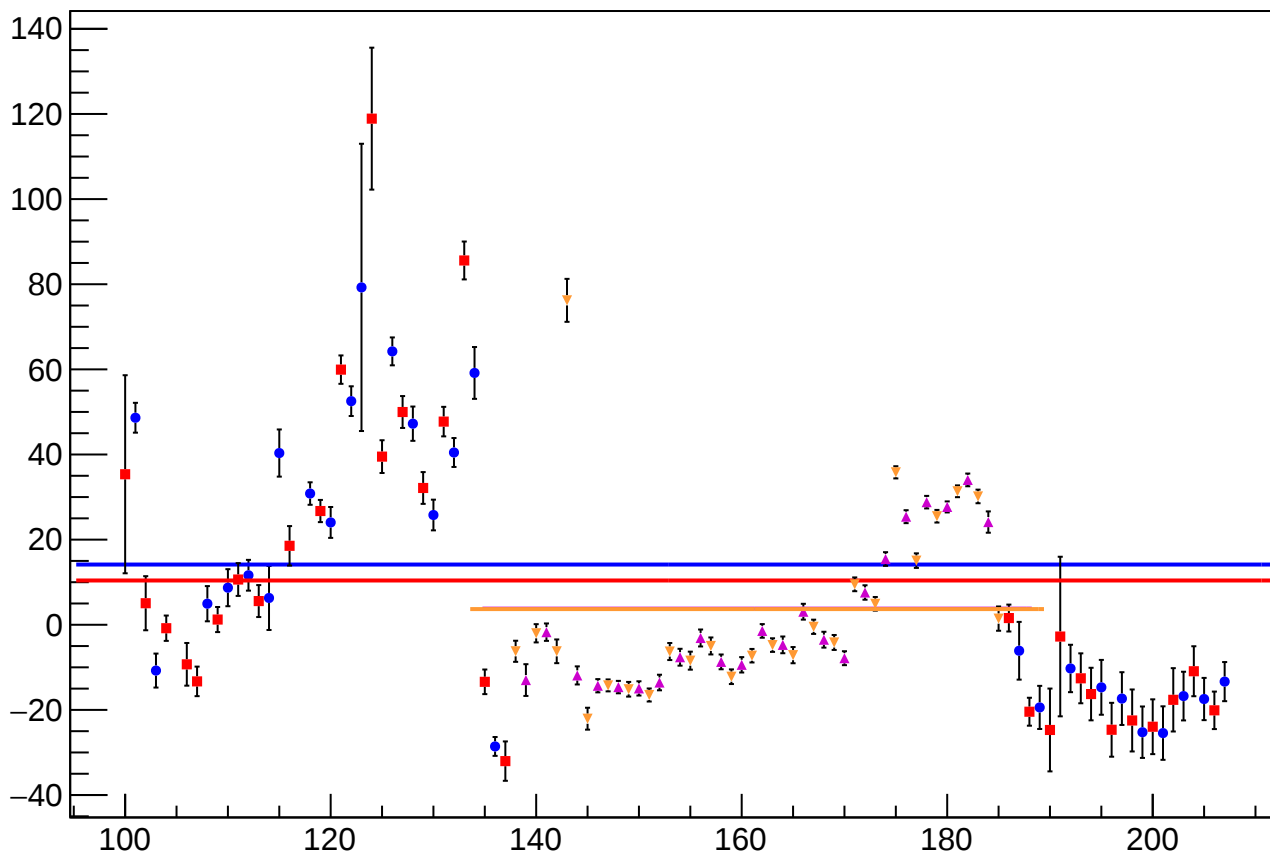
Right: 120.092 $\pm$ 0.523 χ^2 /NDF: 5737.1/57

In: 68.278 $\pm$ 0.360 χ^2 /NDF:8458.2/49

Out: 74.694 $\pm$ 0.342 χ^2 /NDF:14630.2/55

All: 71.649 $\pm$ 0.248 χ^2 /NDF: 23255.0/105

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.148 $\pm$ 0.804 χ^2 /NDF: 1442.6/26

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 10.403 $\pm$ 0.758 χ^2 /NDF: 1449.2/30

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

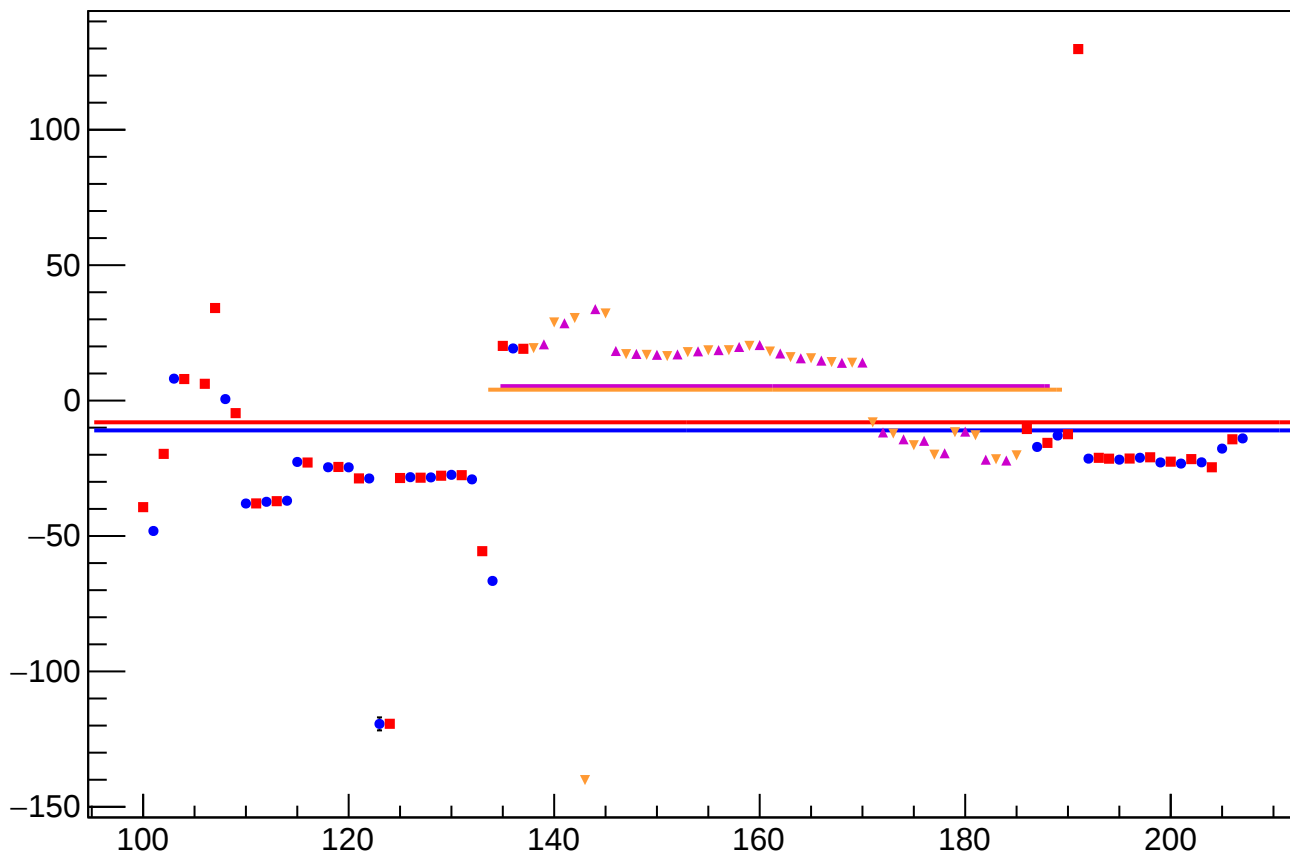
Right: 12.165 $\pm$ 0.551 χ^2 /NDF: 2903.4/57

In: 5.532 $\pm$ 0.330 χ^2 /NDF:3779.7/49

Out: 4.903 $\pm$ 0.323 χ^2 /NDF:4055.2/55

All: 5.211 $\pm$ 0.231 χ^2 /NDF: 7836.8/105

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.009 ± 0.037 χ^2/NDF : 297156.0/26

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -8.017 ± 0.036 χ^2/NDF : 387185.3/30

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

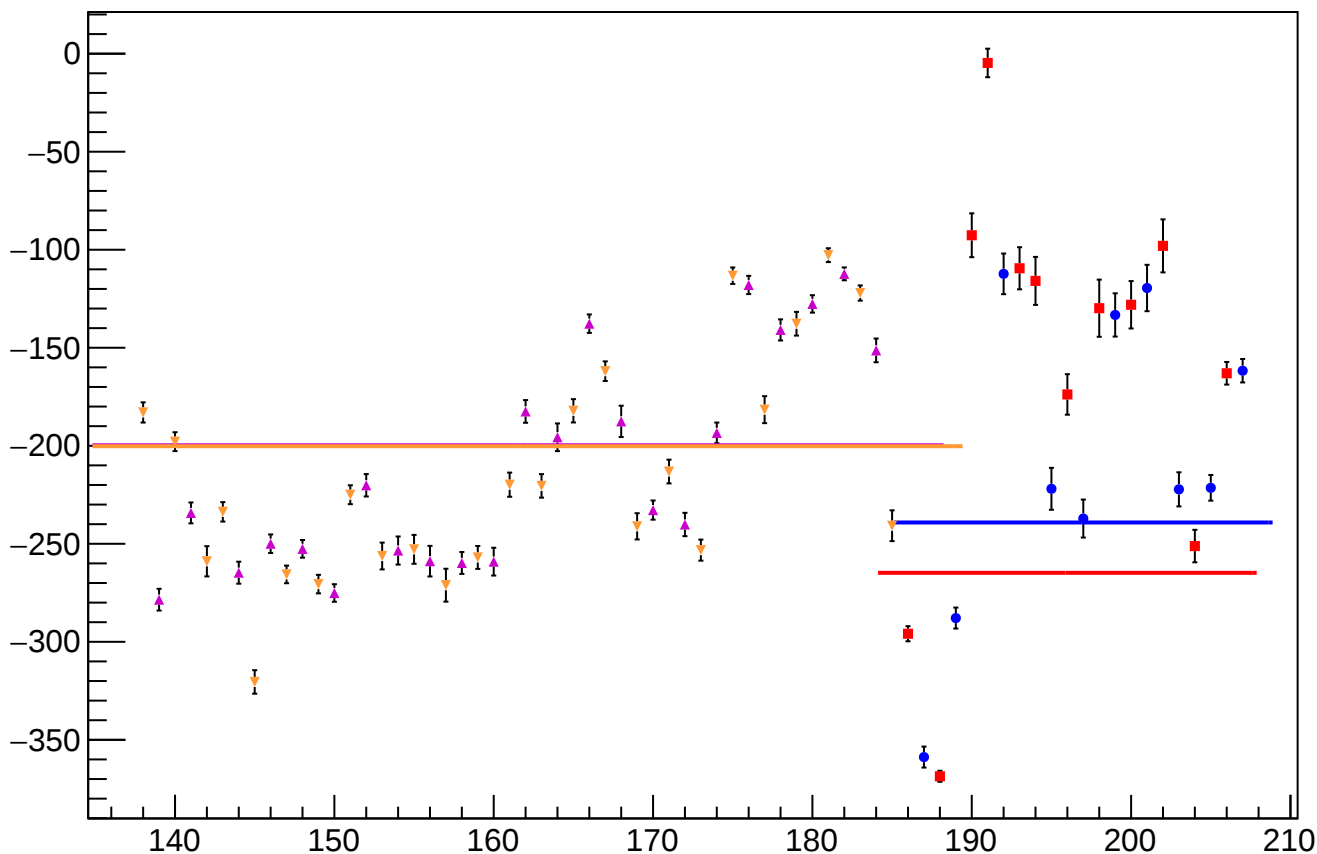
Right: -9.464 ± 0.026 χ^2/NDF : 687626.4/57

In: 2.705 ± 0.015 χ^2/NDF : 1534368.6/49

Out: 1.992 ± 0.015 χ^2/NDF : 1861802.7/55

All: 2.345 ± 0.011 χ^2/NDF : 3397303.0/105

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -239.135 ± 2.368 $\chi^2/\text{NDF}: 1107.4/9$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -264.809 ± 1.805 $\chi^2/\text{NDF}: 4054.9/11$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

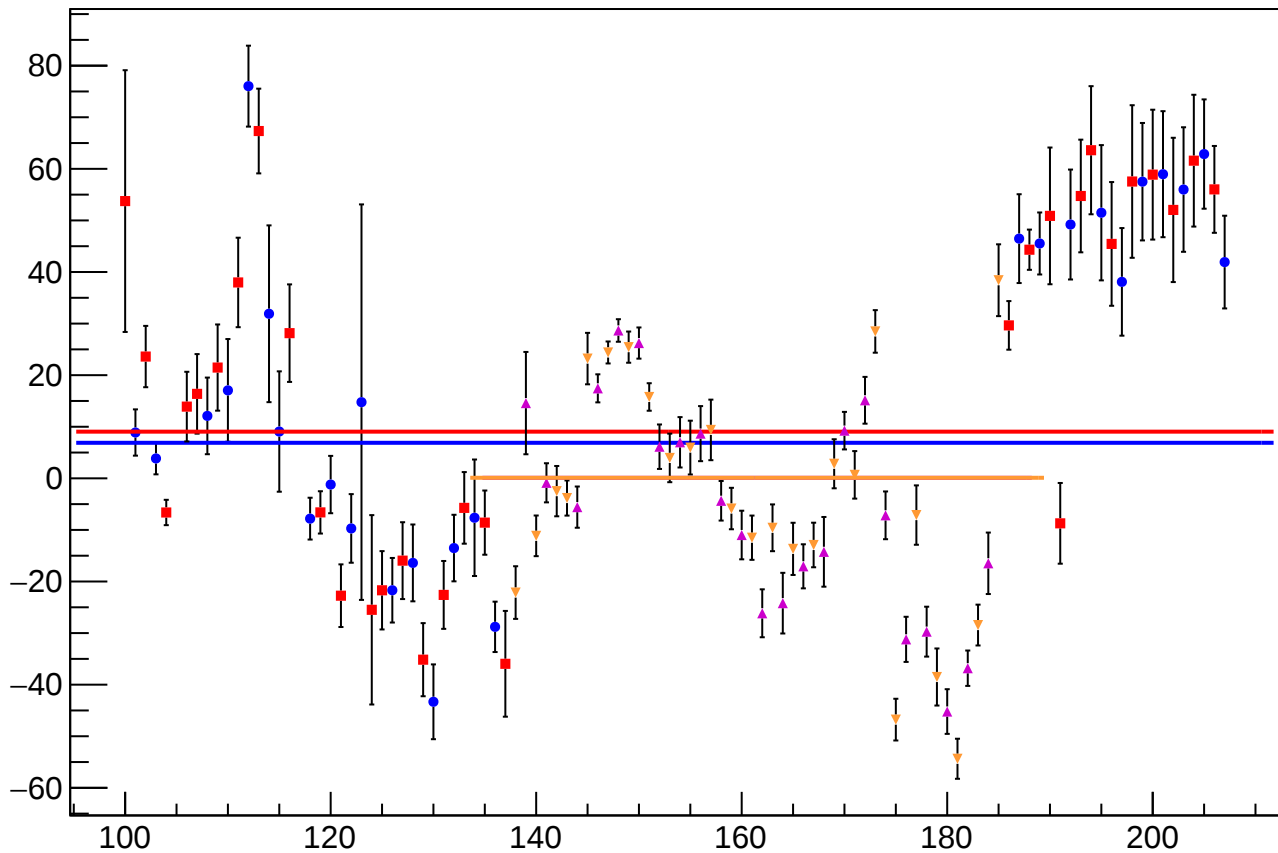
Right: -255.374 ± 1.436 $\chi^2/\text{NDF}: 5236.6/21$

In: -206.703 ± 0.996 $\chi^2/\text{NDF}: 4303.2/32$

Out: -217.202 ± 0.925 $\chi^2/\text{NDF}: 8223.5/36$

All: -212.336 ± 0.678 $\chi^2/\text{NDF}: 12586.3/69$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.890 ± 1.324 $\chi^2/\text{NDF}: 444.1/26$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 9.051 ± 1.193 $\chi^2/\text{NDF}: 532.0/30$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

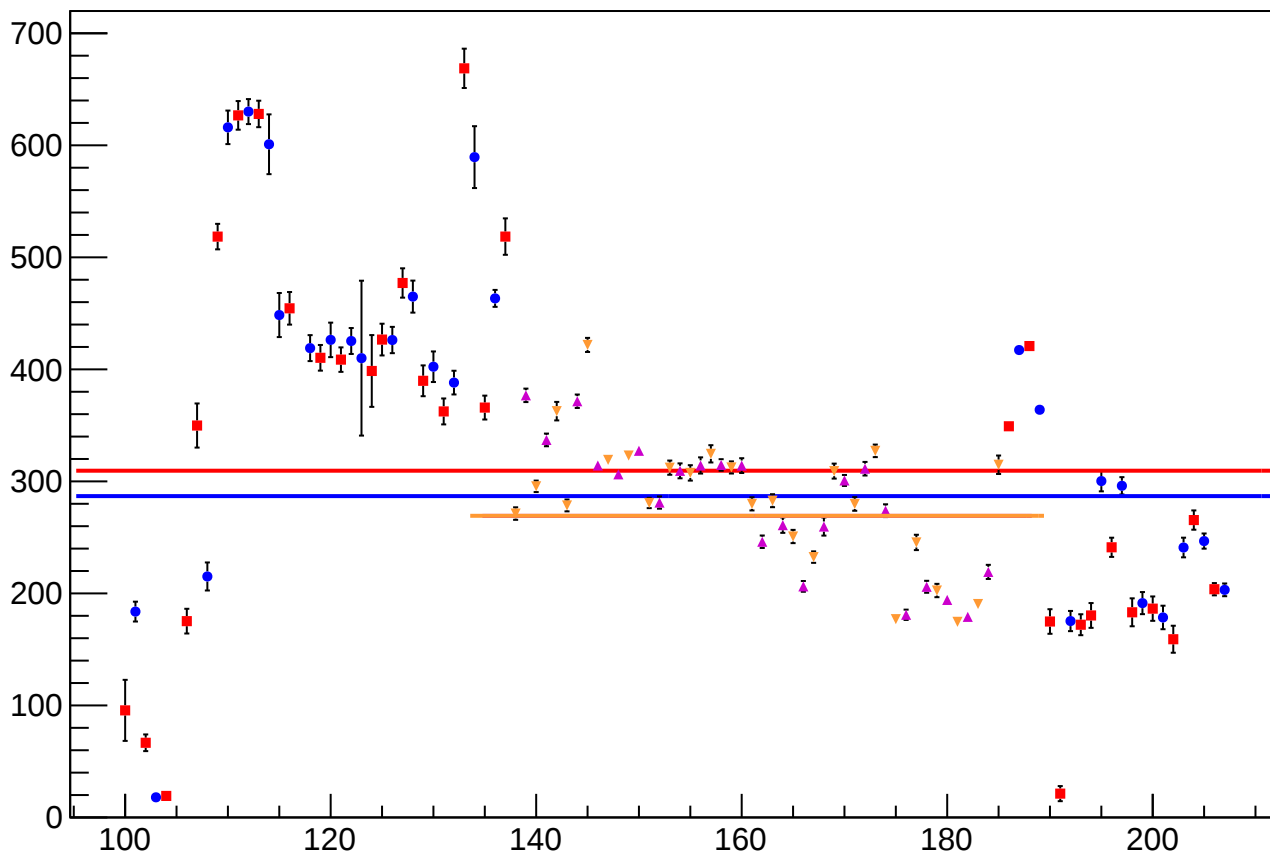
Right: 8.082 ± 0.886 $\chi^2/\text{NDF}: 977.5/57$

In: 2.041 ± 0.708 $\chi^2/\text{NDF}: 1178.3/49$

Out: 2.917 ± 0.669 $\chi^2/\text{NDF}: 1401.8/55$

All: 2.504 ± 0.486 $\chi^2/\text{NDF}: 2580.9/105$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 286.853 $\pm$ 1.603 χ^2 /NDF: 9506.0/26

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 309.531 $\pm$ 1.292 χ^2 /NDF: 14360.1/30

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

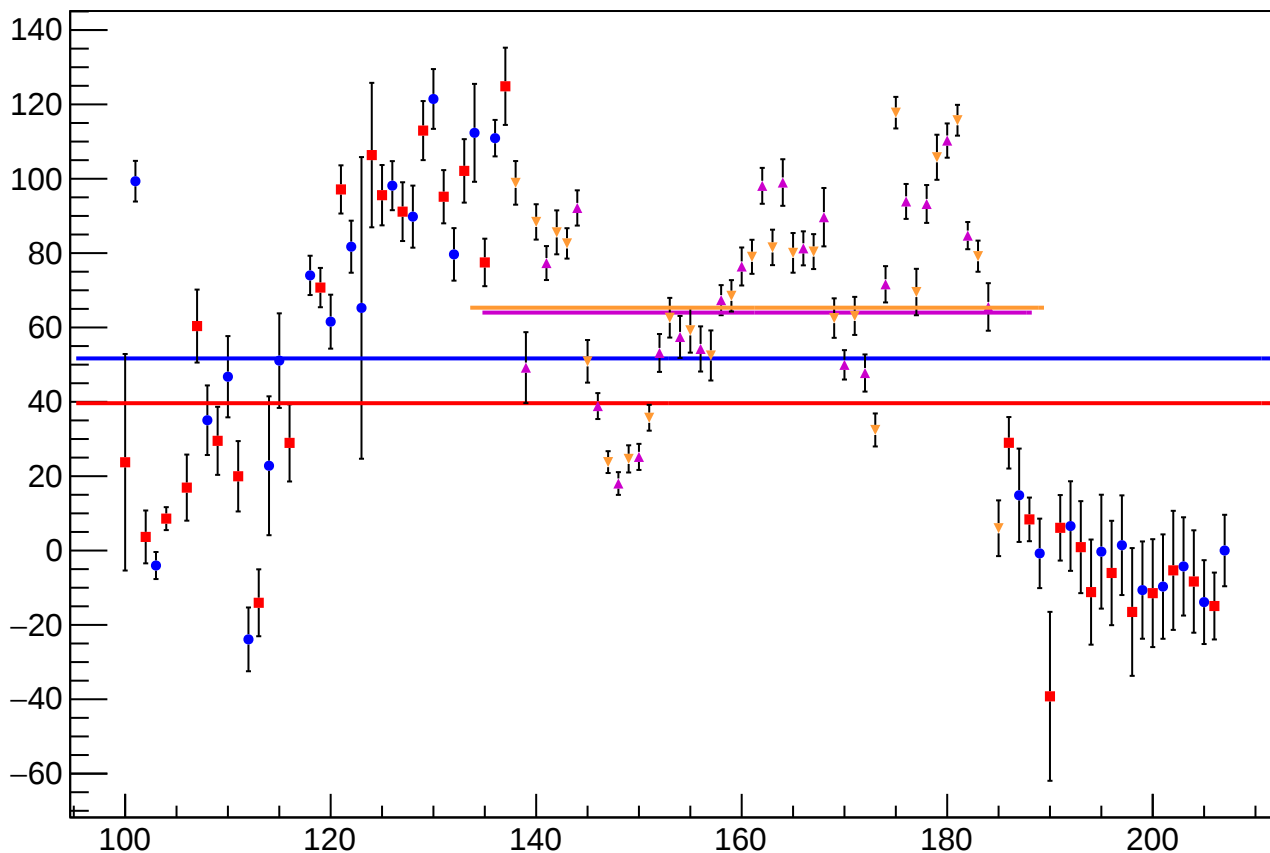
Right: 300.602 $\pm$ 1.006 χ^2 /NDF: 23987.4/57

In: 274.780 $\pm$ 0.902 χ^2 /NDF:12759.1/49

Out: 285.796 $\pm$ 0.827 χ^2 /NDF:18079.4/55

All: 280.760 $\pm$ 0.610 χ^2 /NDF: 30919.6/105

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 51.676 $\pm$ 1.548 χ^2 /NDF: 962.7/26

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 39.633 $\pm$ 1.442 χ^2 /NDF: 867.2/30

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

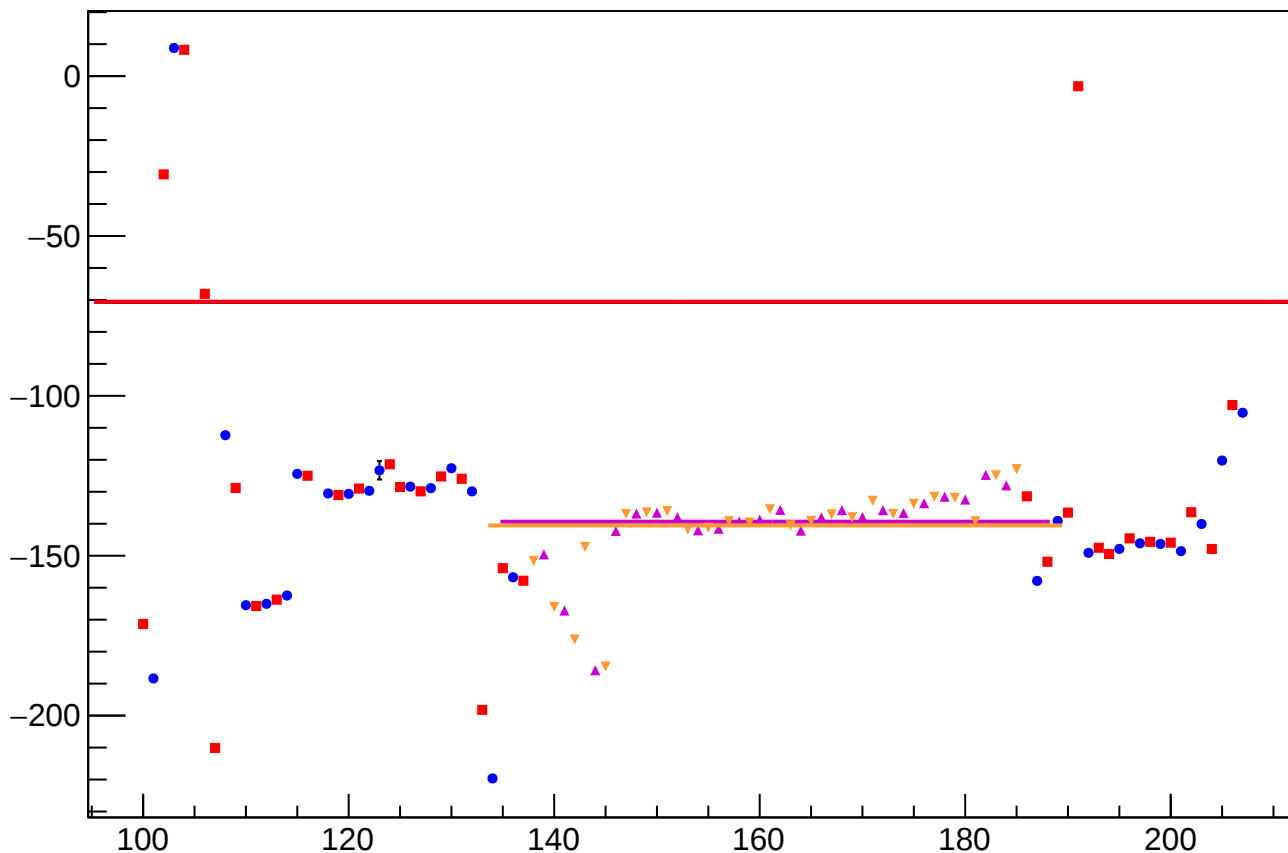
Right: 45.227 $\pm$ 1.055 χ^2 /NDF: 1862.3/57

In: 60.562 $\pm$ 0.818 χ^2 /NDF:1807.8/49

Out: 57.722 $\pm$ 0.784 χ^2 /NDF:2097.8/55

All: 59.083 $\pm$ 0.566 χ^2 /NDF: 3911.9/105

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -70.624 ± 0.063 $\chi^2/\text{NDF}: 1536312.5/26$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -70.573 ± 0.061 $\chi^2/\text{NDF}: 1385751.8/30$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

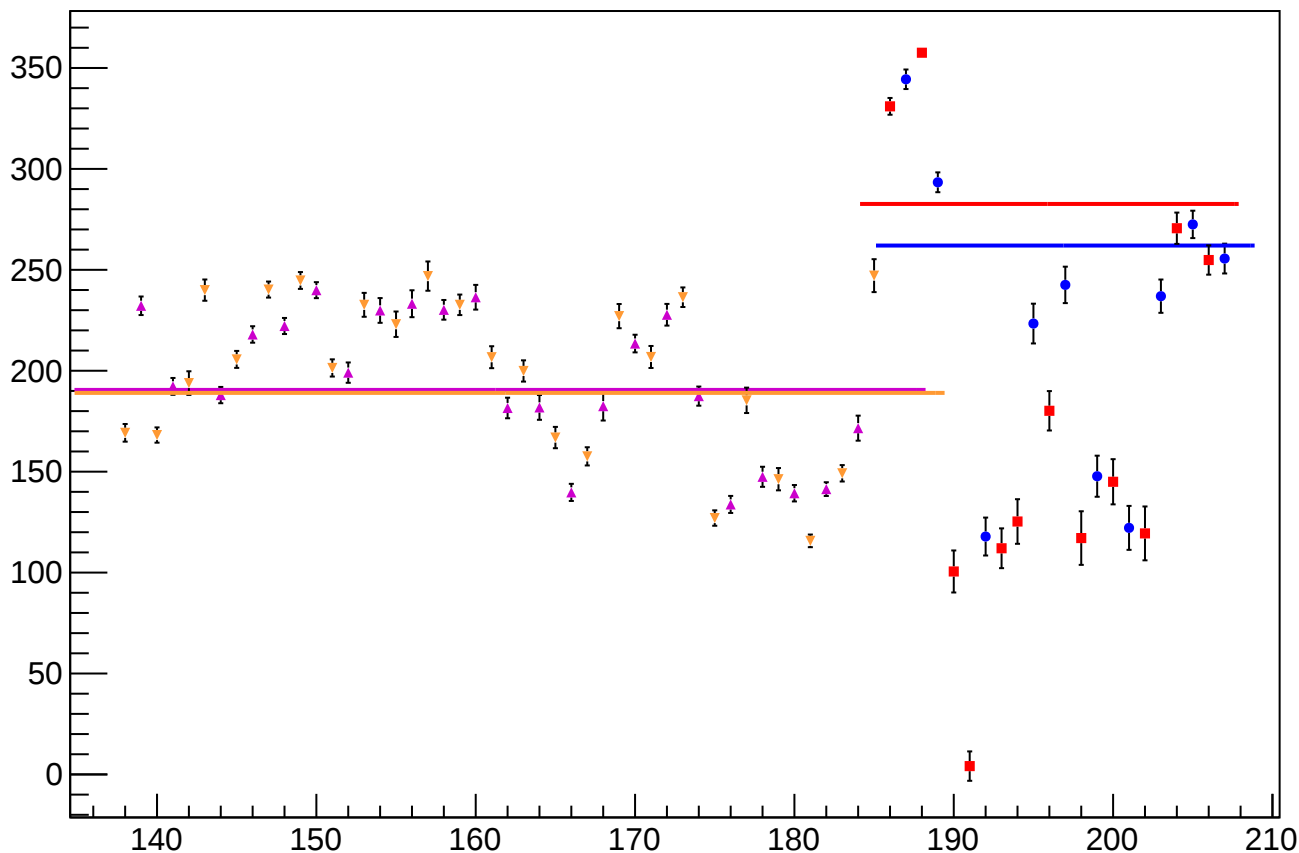
Right: -70.598 ± 0.044 $\chi^2/\text{NDF}: 2922064.6/57$

In: -116.042 ± 0.037 $\chi^2/\text{NDF}: 2389918.3/49$

Out: -116.119 ± 0.036 $\chi^2/\text{NDF}: 2323013.7/55$

All: -116.081 ± 0.026 $\chi^2/\text{NDF}: 4712934.2/100$

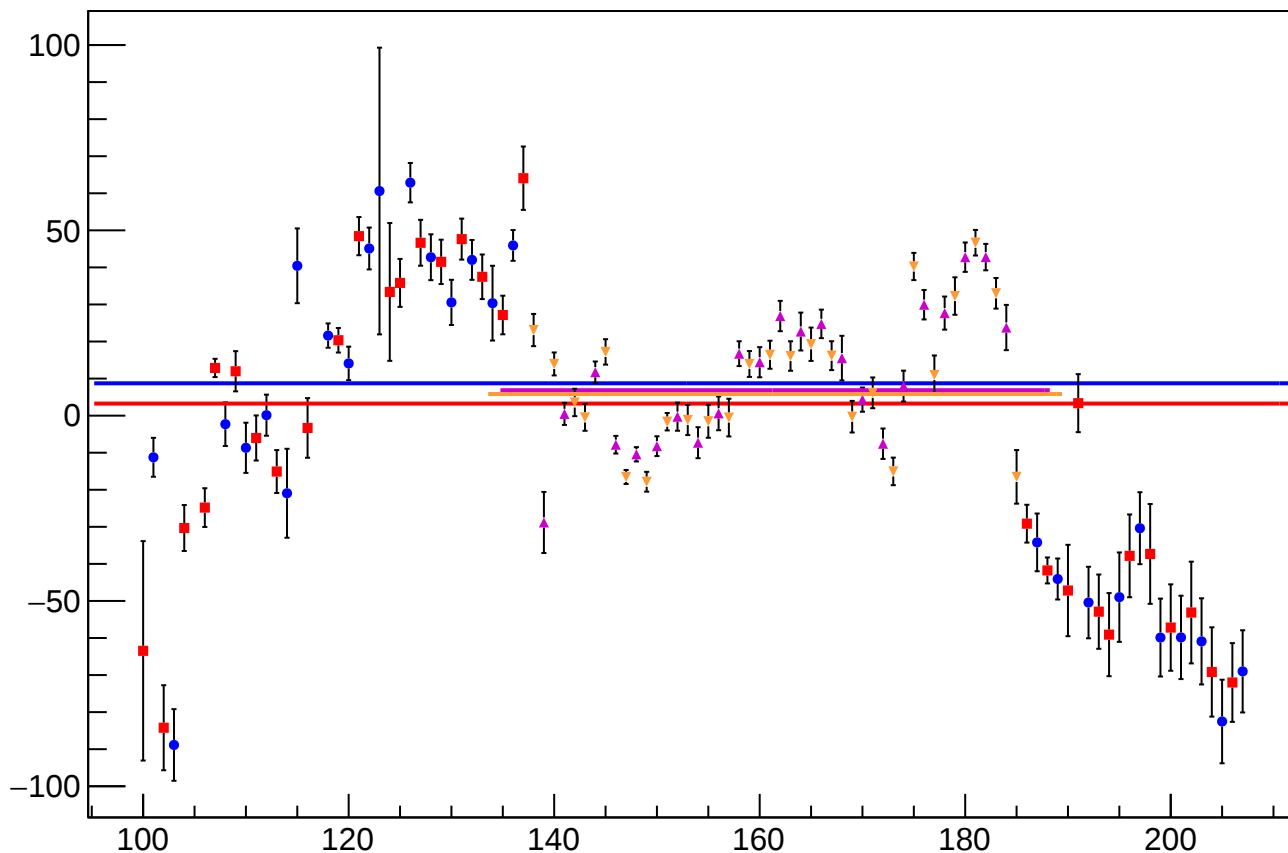
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 262.029 ± 2.289 $\chi^2/\text{NDF}: 889.5/9$
 Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$
 Right Out: 282.637 ± 1.743 $\chi^2/\text{NDF}: 3885.5/11$
 Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$
 Right: 275.075 ± 1.387 $\chi^2/\text{NDF}: 4826.3/21$
 In: 201.491 ± 0.897 $\chi^2/\text{NDF}: 3128.6/32$
 Out: 210.677 ± 0.838 $\chi^2/\text{NDF}: 8084.0/36$
 All: 206.396 ± 0.612 $\chi^2/\text{NDF}: 11268.6/69$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.727 ± 1.260 χ^2/NDF : 903.9/26

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 3.258 ± 1.075 χ^2/NDF : 979.6/30

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

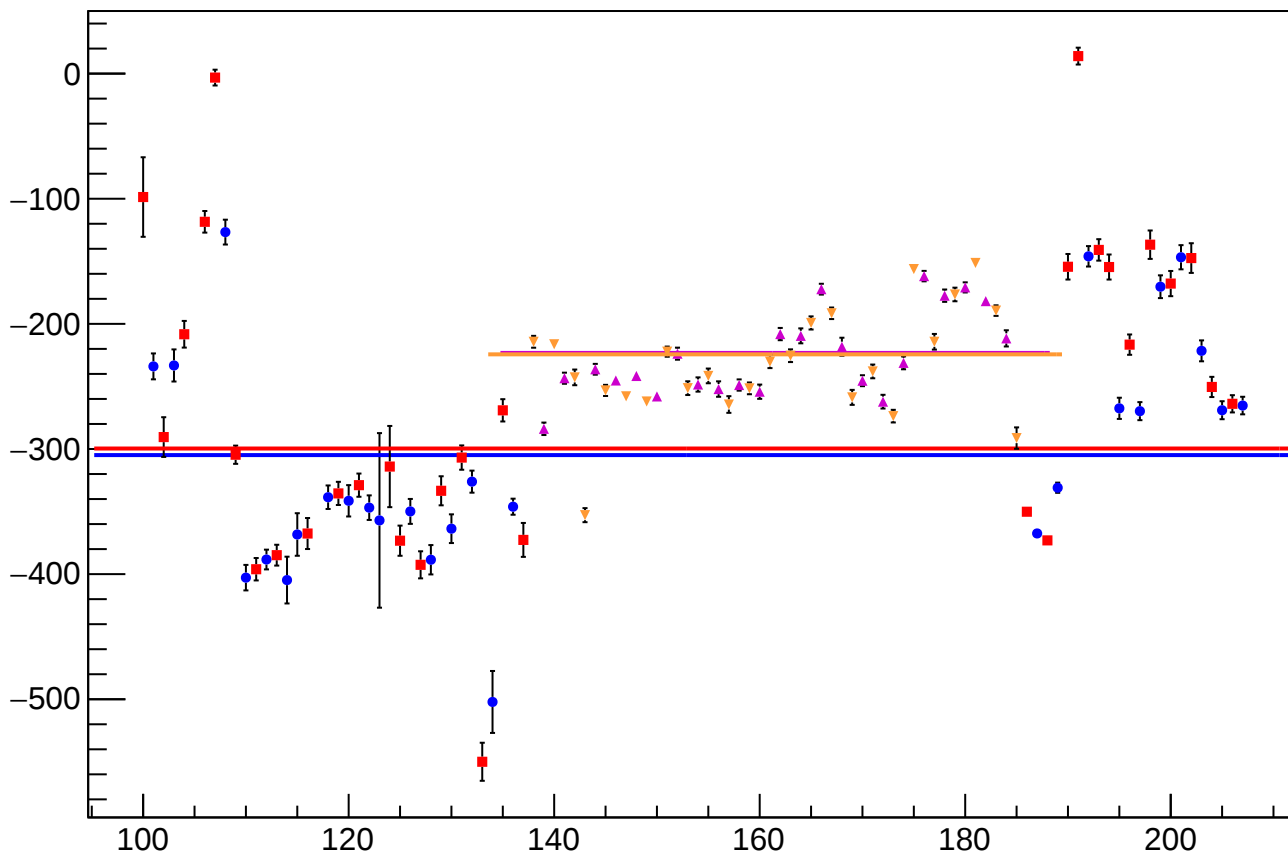
Right: 5.561 ± 0.818 χ^2/NDF : 1894.4/57

In: 7.336 ± 0.636 χ^2/NDF : 1428.3/49

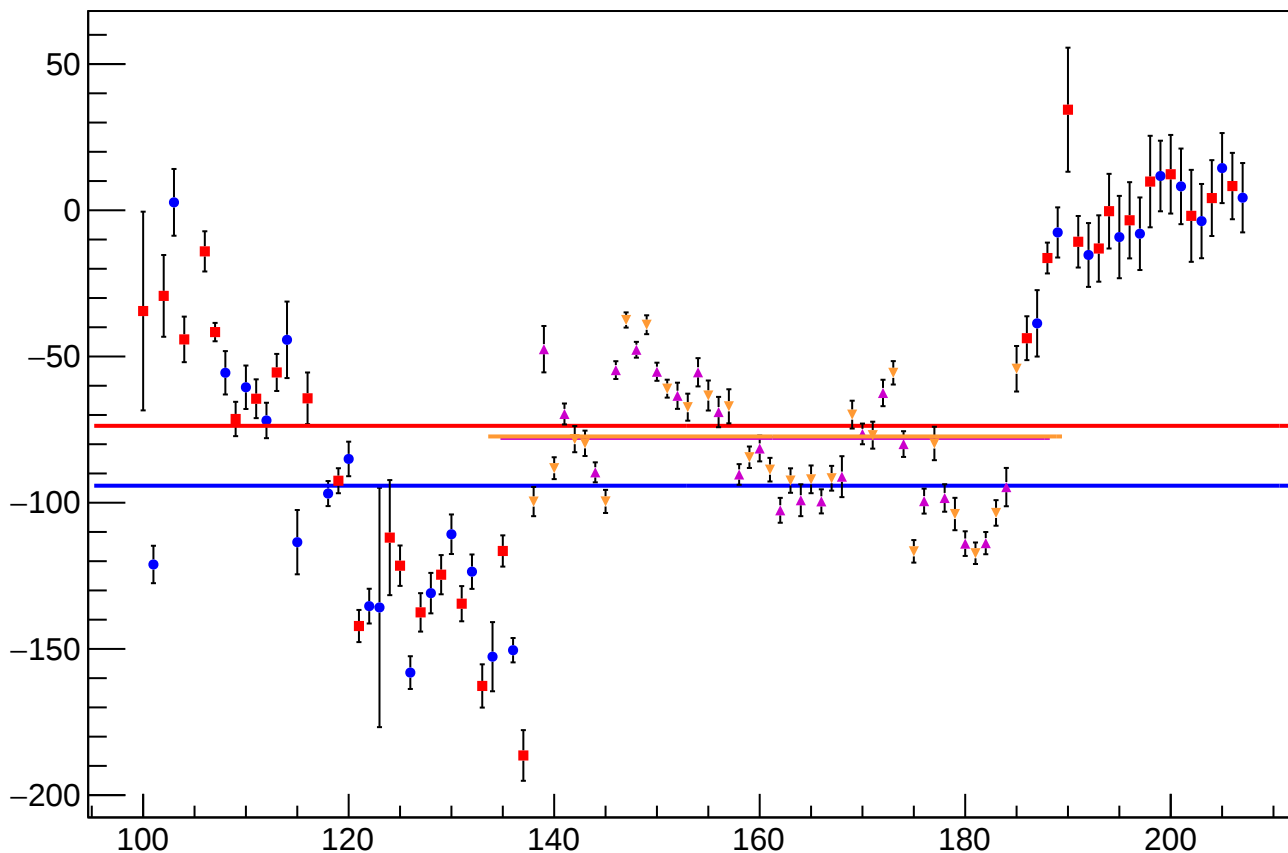
Out: 5.048 ± 0.594 χ^2/NDF : 1635.8/55

All: 6.114 ± 0.434 χ^2/NDF : 3071.0/105

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.184 ± 1.467 $\chi^2/\text{NDF}: 1221.4/26$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -73.709 ± 1.289 $\chi^2/\text{NDF}: 1555.9/30$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

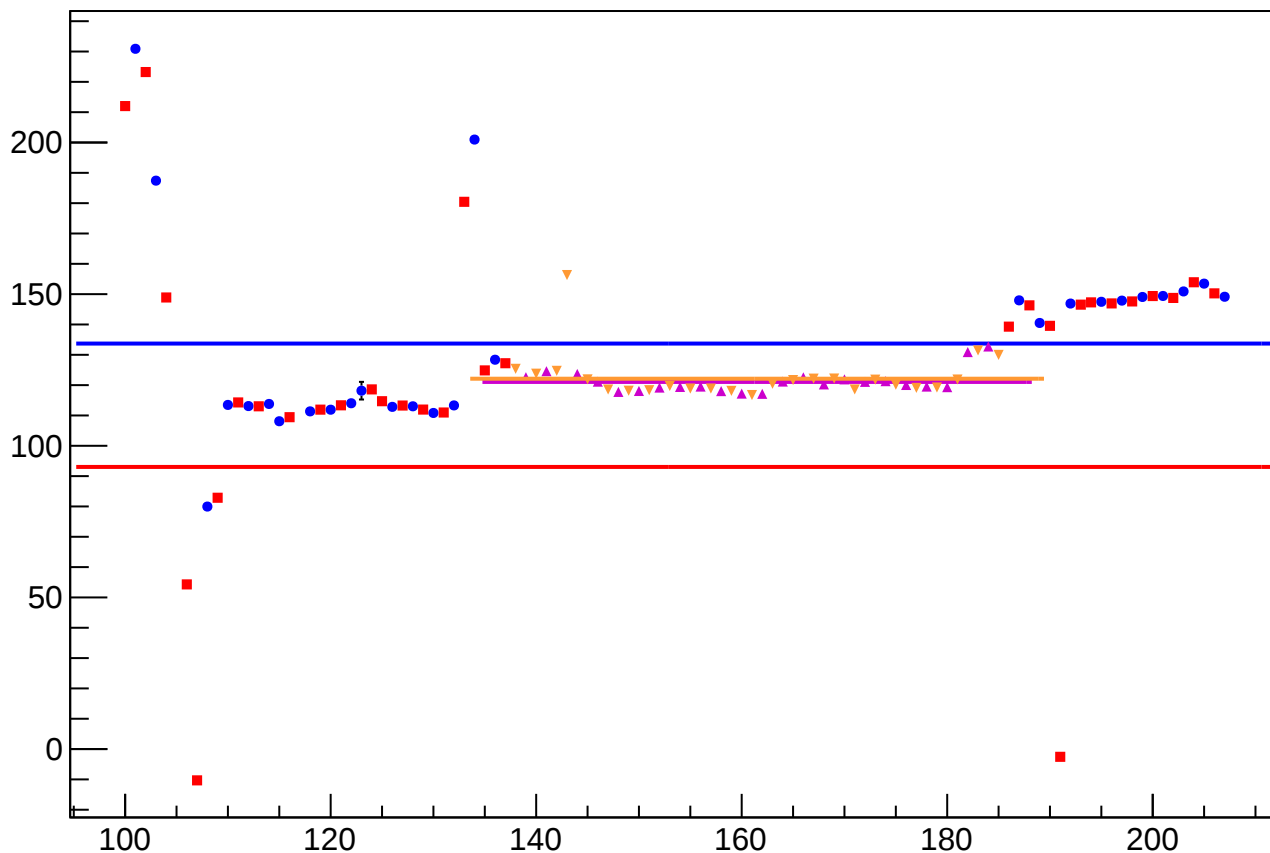
Right: -82.631 ± 0.968 $\chi^2/\text{NDF}: 2887.2/57$

In: -81.937 ± 0.735 $\chi^2/\text{NDF}: 1937.2/49$

Out: -76.285 ± 0.696 $\chi^2/\text{NDF}: 2407.8/55$

All: -78.958 ± 0.505 $\chi^2/\text{NDF}: 4376.2/105$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 133.708 $\pm$ 0.075 χ^2 /NDF: 204572.9/26

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 93.030 $\pm$ 0.062 χ^2 /NDF: 1129929.8/30

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

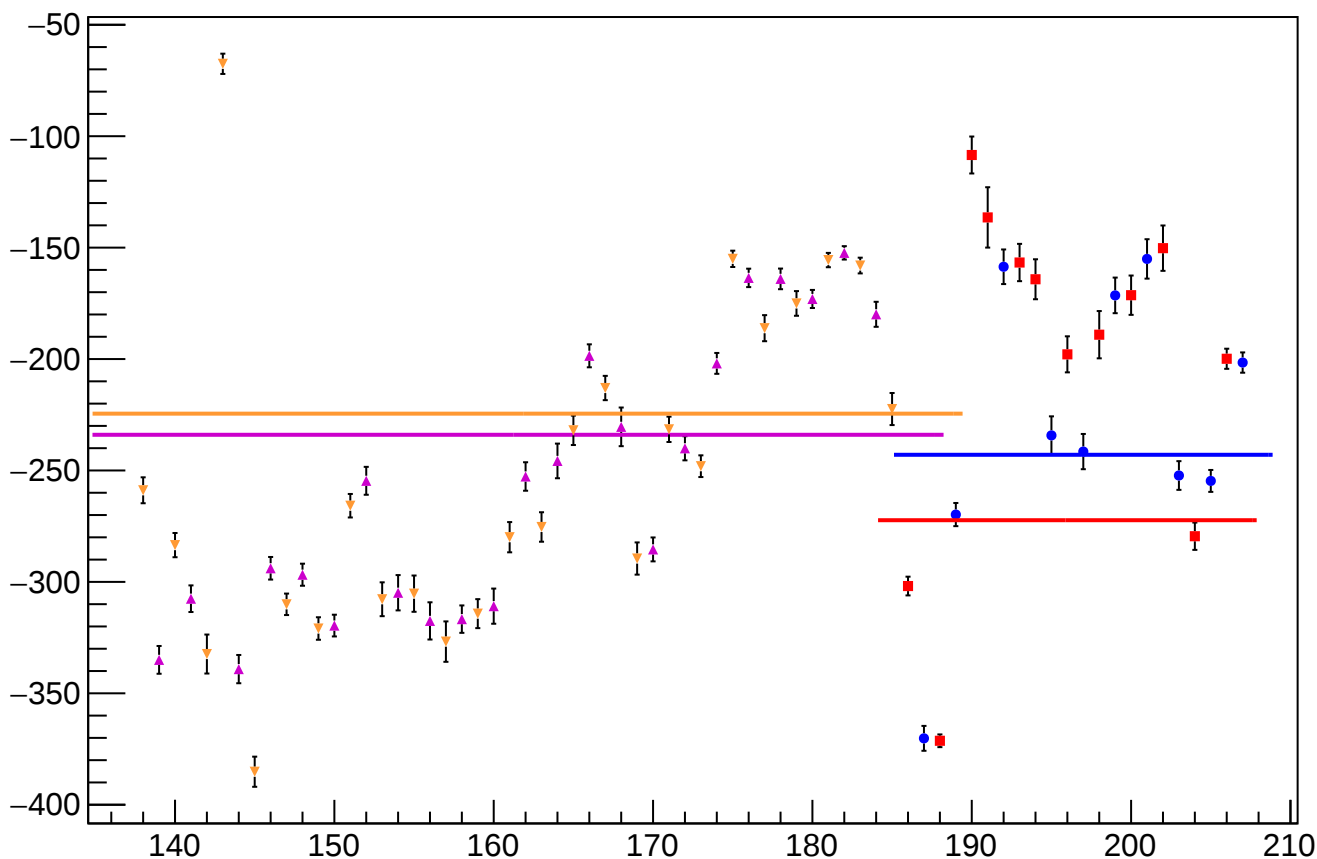
Right: 109.780 $\pm$ 0.048 χ^2 /NDF: 1509721.5/57

In: 123.855 $\pm$ 0.035 χ^2 /NDF:234945.8/49

Out: 113.816 $\pm$ 0.033 χ^2 /NDF:1315899.8/55

All: 118.579 $\pm$ 0.024 χ^2 /NDF: 1593931.2/105

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -242.962+/-1.970 χ^2/NDF : 934.4/9

Left Out: -224.501+/-1.079 χ^2/NDF :4870.6/24

Right Out: -272.322+/-1.694 χ^2/NDF : 2761.4/11

Left In: -233.988+/-1.109 χ^2/NDF :3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

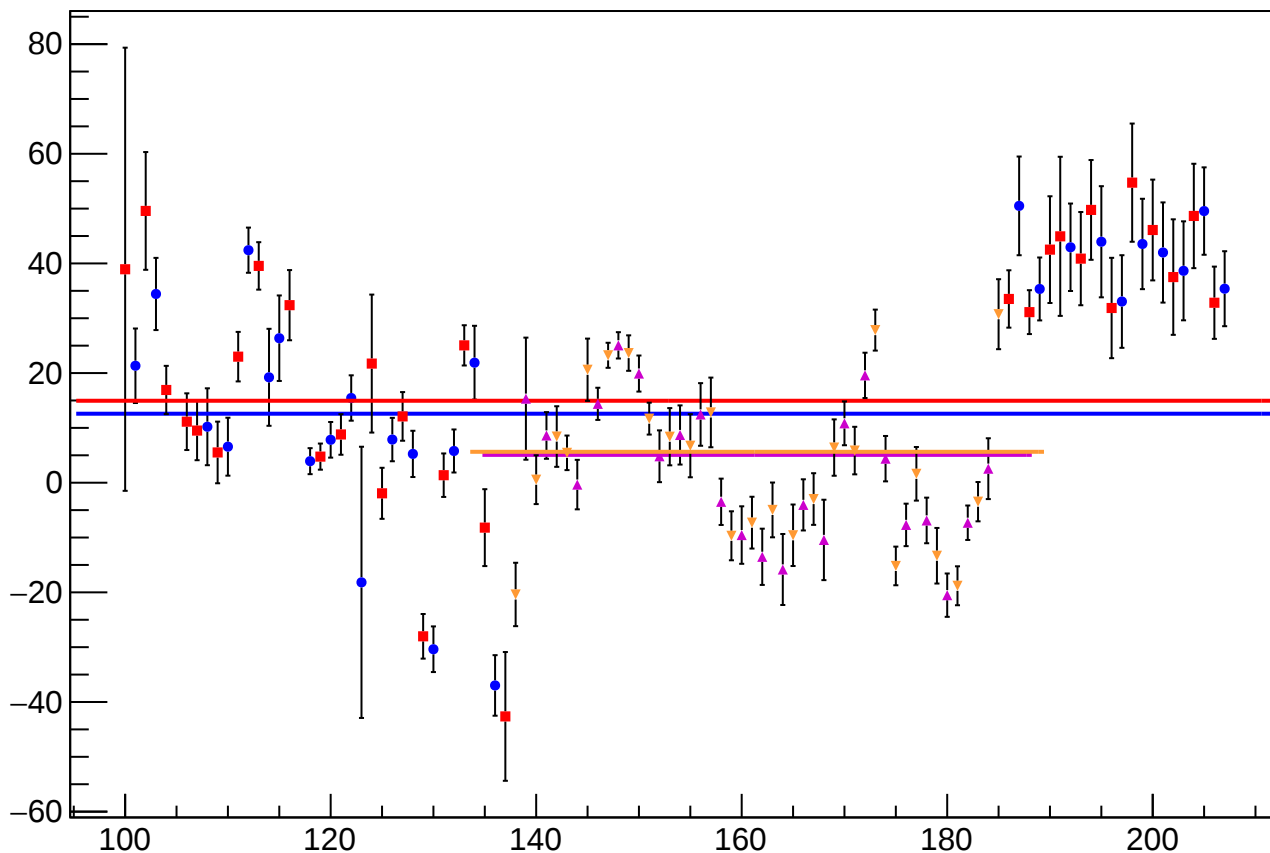
Right: -259.847+/-1.284 χ^2/NDF : 3823.5/21

In: -236.145+/-0.966 χ^2/NDF :4488.6/32

Out: -238.307+/-0.910 χ^2/NDF :8199.0/36

All: -237.291+/-0.662 χ^2/NDF : 12690.3/69

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.585 $\pm$ 1.012 χ^2 /NDF: 412.8/26

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 14.950 $\pm$ 0.960 χ^2 /NDF: 376.9/30

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

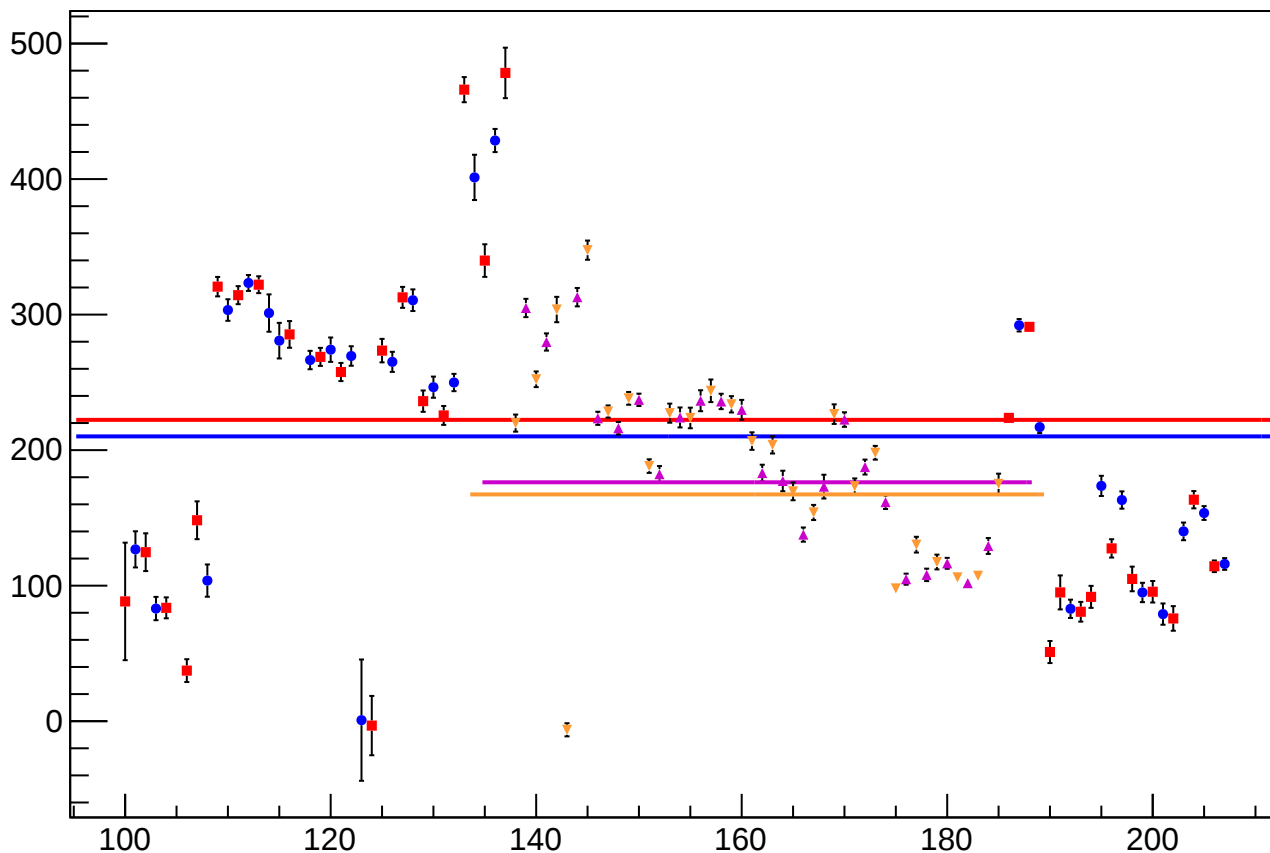
Right: 13.829 $\pm$ 0.696 χ^2 /NDF: 792.6/57

In: 8.264 $\pm$ 0.659 χ^2 /NDF:684.2/49

Out: 9.608 $\pm$ 0.627 χ^2 /NDF:744.5/55

All: 8.970 $\pm$ 0.454 χ^2 /NDF: 1430.9/105

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 210.139+/-1.358 χ^2/NDF : 4190.6/26

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 222.339+/-1.171 χ^2/NDF : 6570.9/30

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

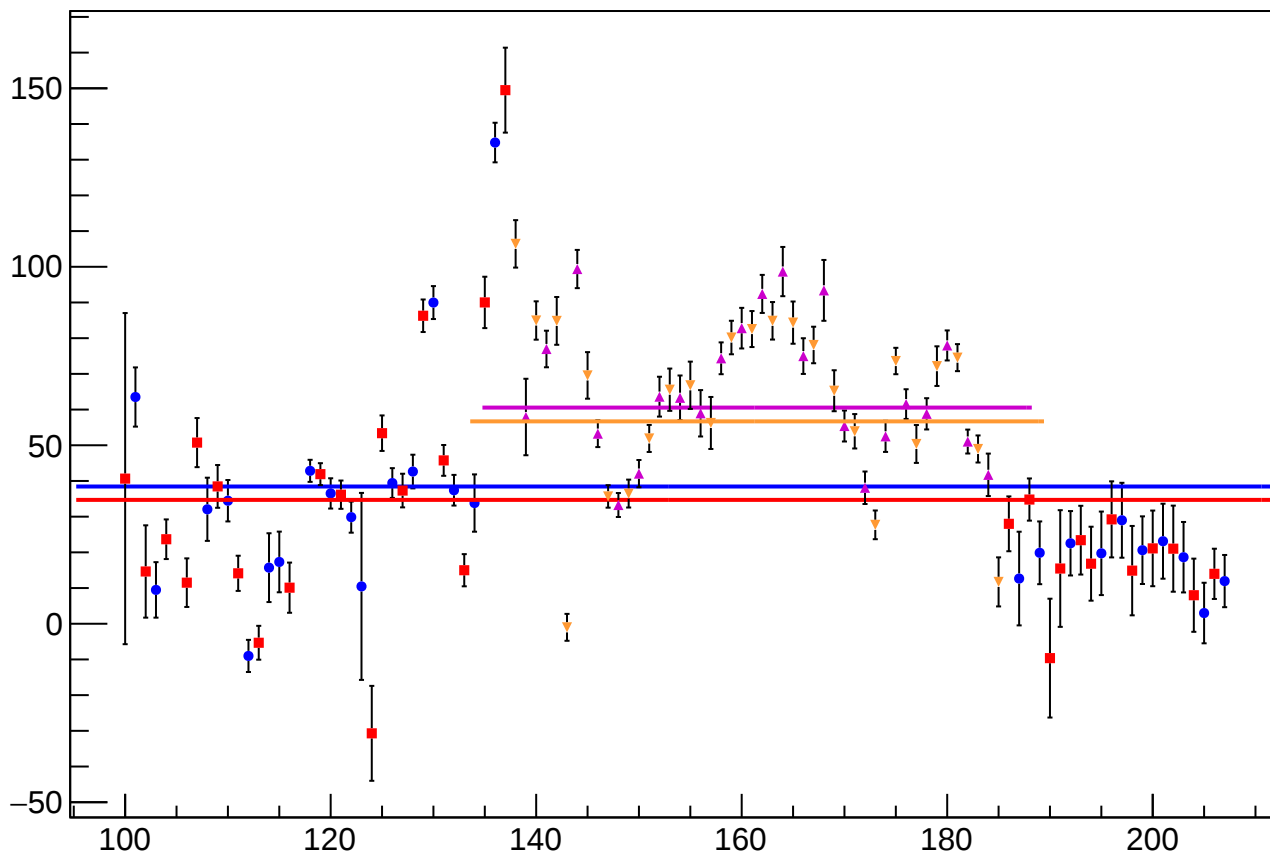
Right: 217.135+/-0.887 χ^2/NDF : 10807.8/57

In: 189.772+/-0.857 χ^2/NDF : 7734.0/49

Out: 192.666+/-0.795 χ^2/NDF : 12215.0/55

All: 191.328+/-0.583 χ^2/NDF : 19955.1/105

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.447 ± 1.175 $\chi^2/\text{NDF}: 637.1/26$

Left Out: 56.695 ± 0.952 $\chi^2/\text{NDF}: 690.4/24$

Right Out: 34.698 ± 1.127 $\chi^2/\text{NDF}: 509.7/30$

Left In: 60.555 ± 0.990 $\chi^2/\text{NDF}: 335.6/22$

Left: 58.548 ± 0.686 $\chi^2/\text{NDF}: 1034.0/47$

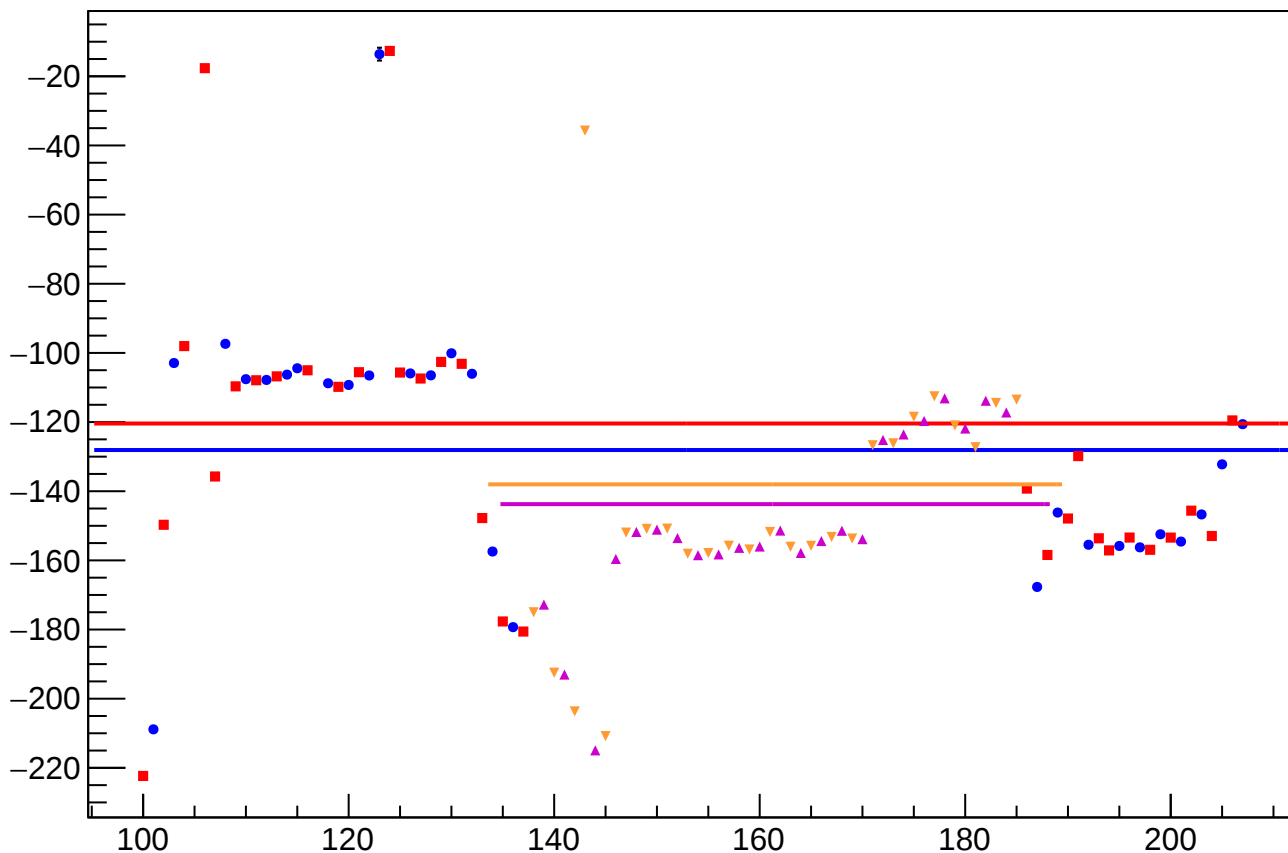
Right: 36.494 ± 0.813 $\chi^2/\text{NDF}: 1152.0/57$

In: 51.376 ± 0.757 $\chi^2/\text{NDF}: 1179.7/49$

Out: 47.538 ± 0.727 $\chi^2/\text{NDF}: 1422.4/55$

All: 49.379 ± 0.524 $\chi^2/\text{NDF}: 2615.5/105$

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.087 ± 0.063 $\chi^2/\text{NDF}: 205880.7/26$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -120.414 ± 0.059 $\chi^2/\text{NDF}: 455065.4/30$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

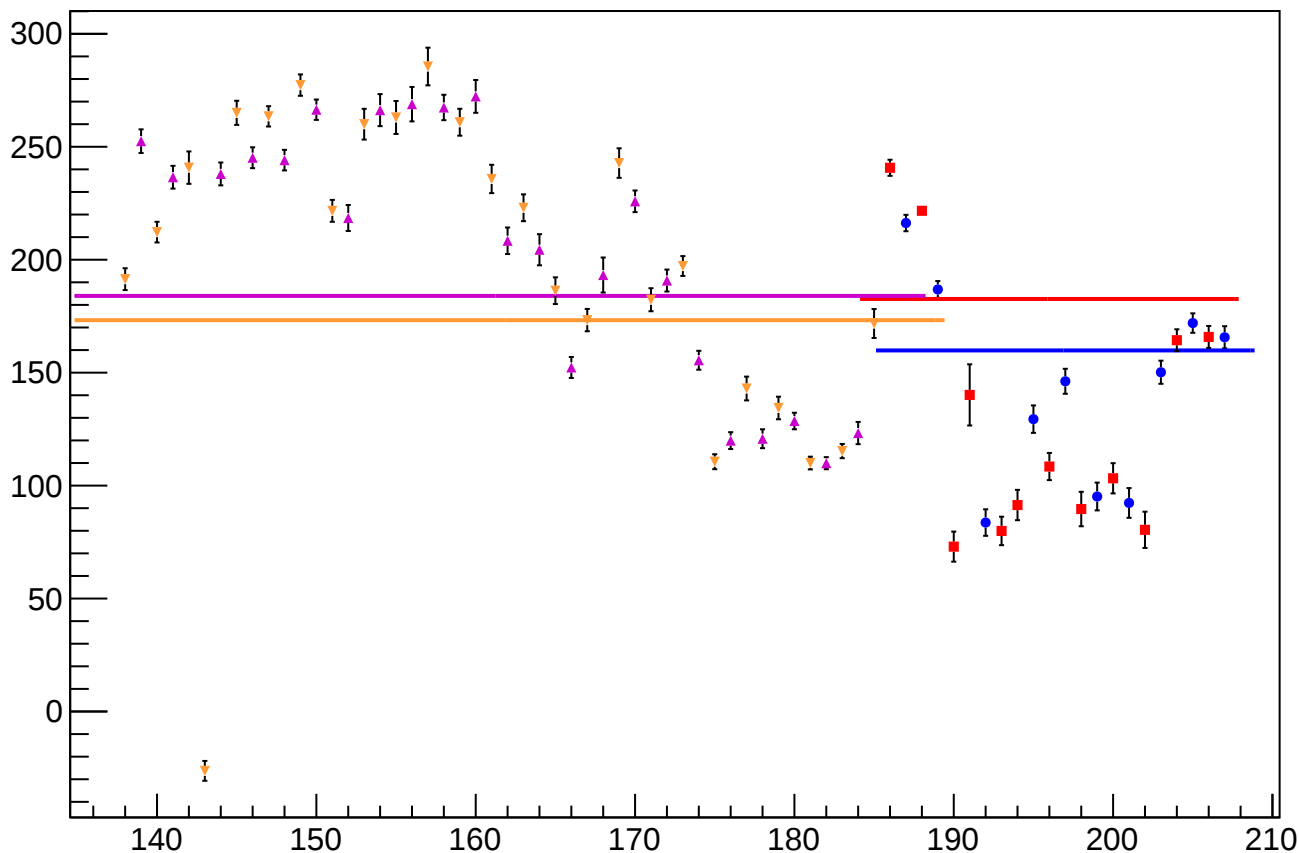
Right: -123.980 ± 0.043 $\chi^2/\text{NDF}: 668864.7/57$

In: -138.287 ± 0.037 $\chi^2/\text{NDF}: 504403.7/49$

Out: -131.483 ± 0.036 $\chi^2/\text{NDF}: 1077203.5/55$

All: -134.753 ± 0.026 $\chi^2/\text{NDF}: 1598969.5/10$

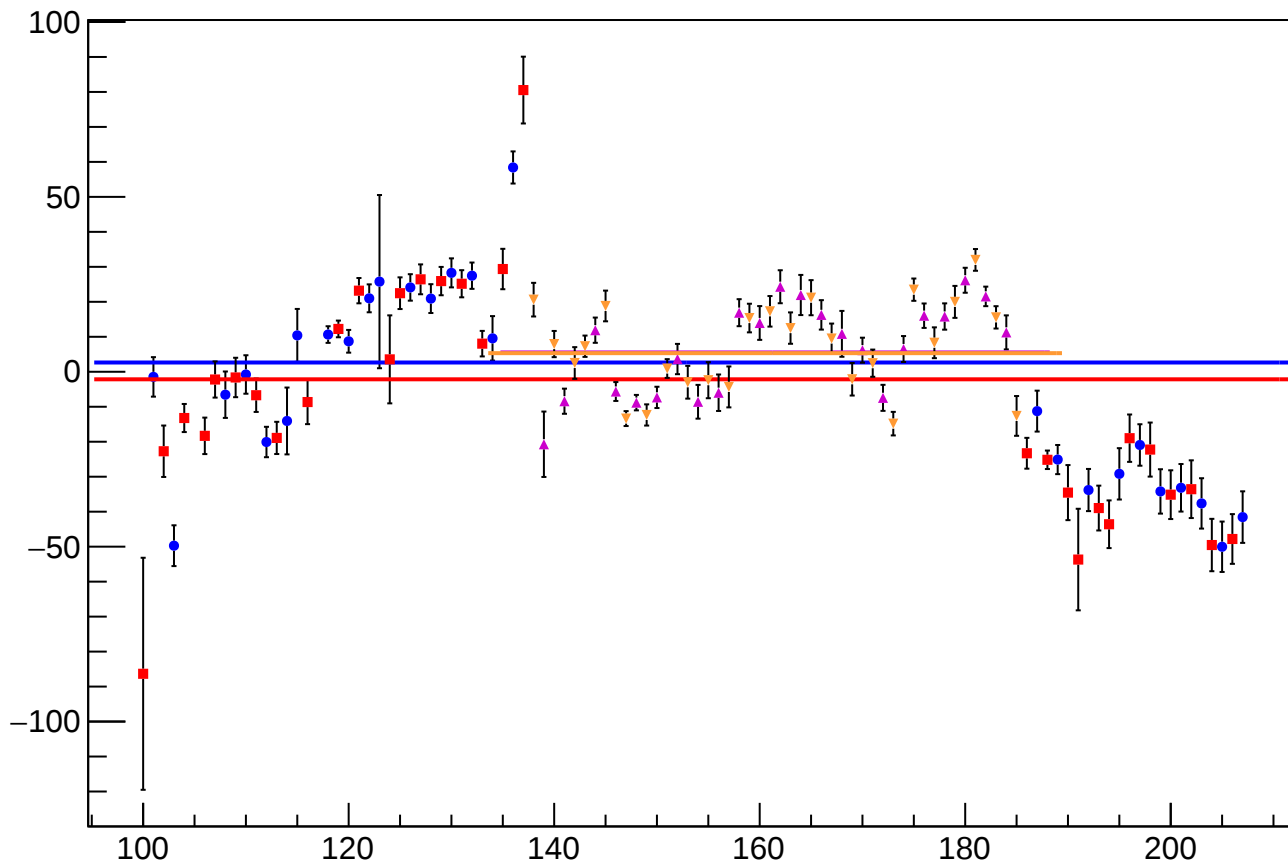
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 159.842 $\pm$ 1.543 χ^2 /NDF: 722.5/9
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24
 Right Out: 182.625 $\pm$ 1.280 χ^2 /NDF: 2066.6/11
 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: 173.336 $\pm$ 0.985 χ^2 /NDF: 2918.2/21
 In: 176.933 $\pm$ 0.834 χ^2 /NDF:4509.5/32
 Out: 176.637 $\pm$ 0.771 χ^2 /NDF:7946.9/36
 All: 176.773 $\pm$ 0.566 χ^2 /NDF: 12456.5/69

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.650 ± 0.941 χ^2/NDF : 737.4/26

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -2.155 ± 0.883 χ^2/NDF : 746.6/30

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

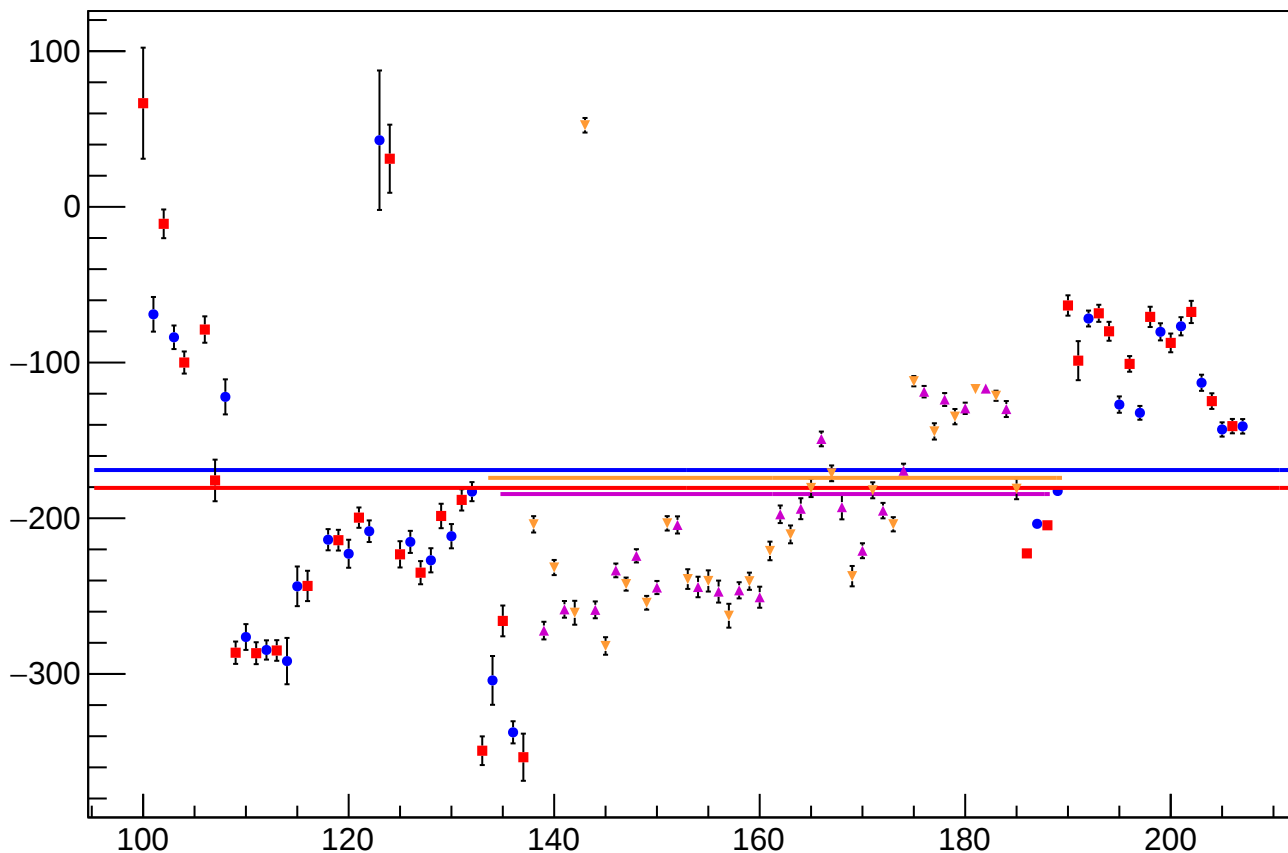
Right: 0.094 ± 0.644 χ^2/NDF : 1497.8/57

In: 4.354 ± 0.601 χ^2/NDF : 999.2/49

Out: 2.202 ± 0.570 χ^2/NDF : 1133.9/55

All: 3.222 ± 0.414 χ^2/NDF : 2139.9/105

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -169.036 ± 1.134 $\chi^2/\text{NDF}: 3091.2/26$

Left Out: -174.061 ± 0.971 $\chi^2/\text{NDF}: 5443.3/24$

Right Out: -180.513 ± 0.943 $\chi^2/\text{NDF}: 4904.2/30$

Left In: -184.456 ± 0.991 $\chi^2/\text{NDF}: 3051.6/22$

Left: -179.154 ± 0.693 $\chi^2/\text{NDF}: 8551.0/47$

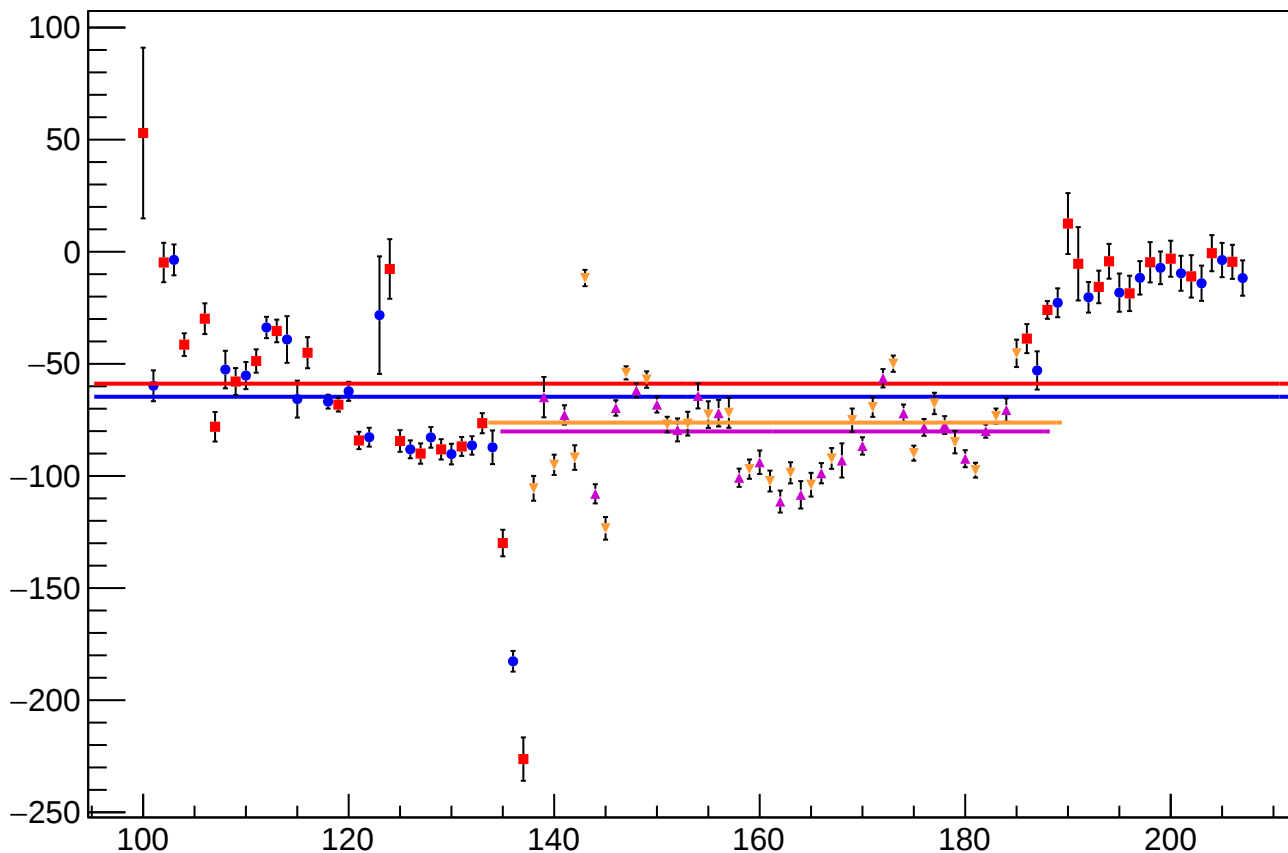
Right: -175.822 ± 0.725 $\chi^2/\text{NDF}: 8056.0/57$

In: -177.782 ± 0.746 $\chi^2/\text{NDF}: 6247.7/49$

Out: -177.382 ± 0.676 $\chi^2/\text{NDF}: 10370.2/55$

All: -177.562 ± 0.501 $\chi^2/\text{NDF}: 16618.0/105$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -64.671 ± 1.100 $\chi^2/\text{NDF}: 1353.8/26$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -58.827 ± 1.051 $\chi^2/\text{NDF}: 1242.0/30$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

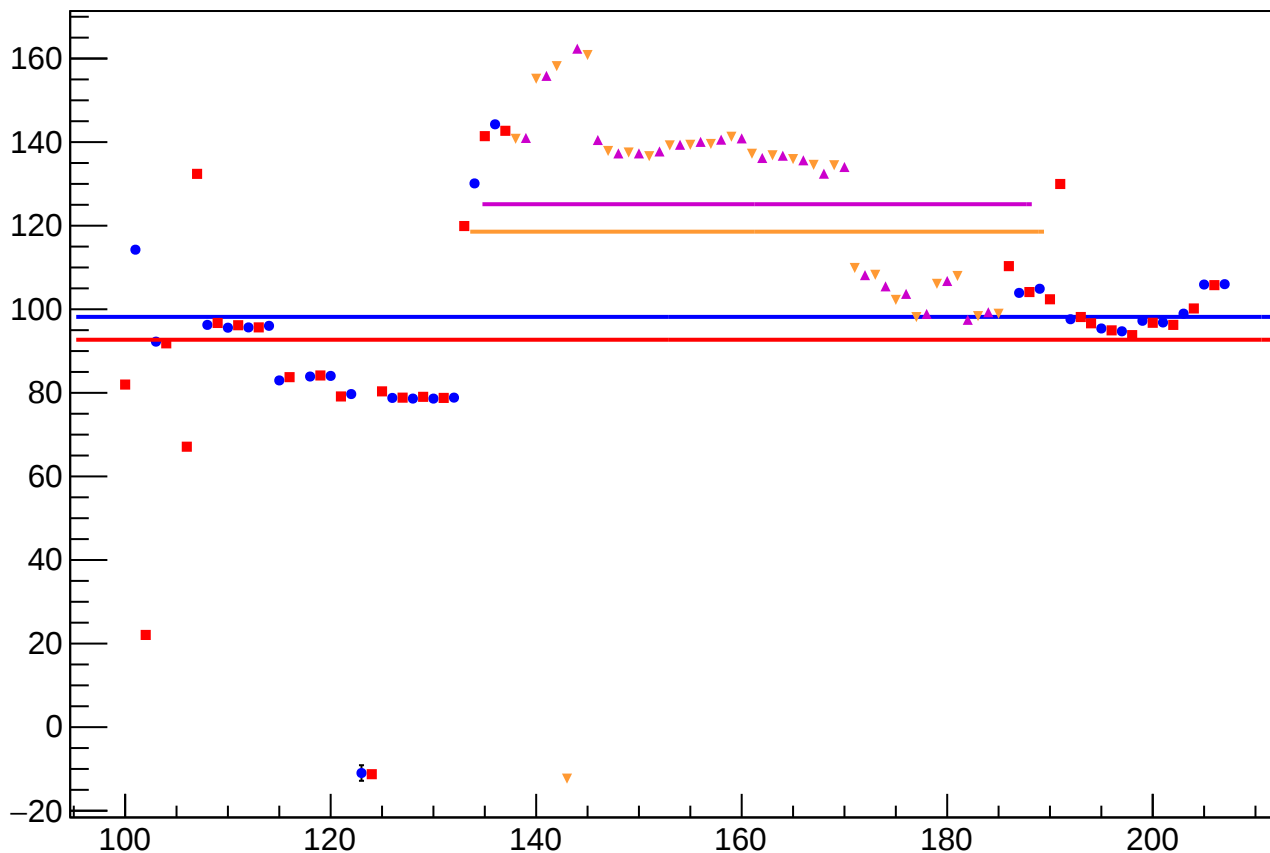
Right: -61.617 ± 0.760 $\chi^2/\text{NDF}: 2610.6/57$

In: -74.032 ± 0.691 $\chi^2/\text{NDF}: 1756.9/49$

Out: -69.249 ± 0.664 $\chi^2/\text{NDF}: 2206.7/55$

All: -71.545 ± 0.479 $\chi^2/\text{NDF}: 3988.5/105$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.177 $\pm$ 0.056 χ^2 /NDF: 96078.3/26

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.708 $\pm$ 0.052 χ^2 /NDF: 243165.7/30

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

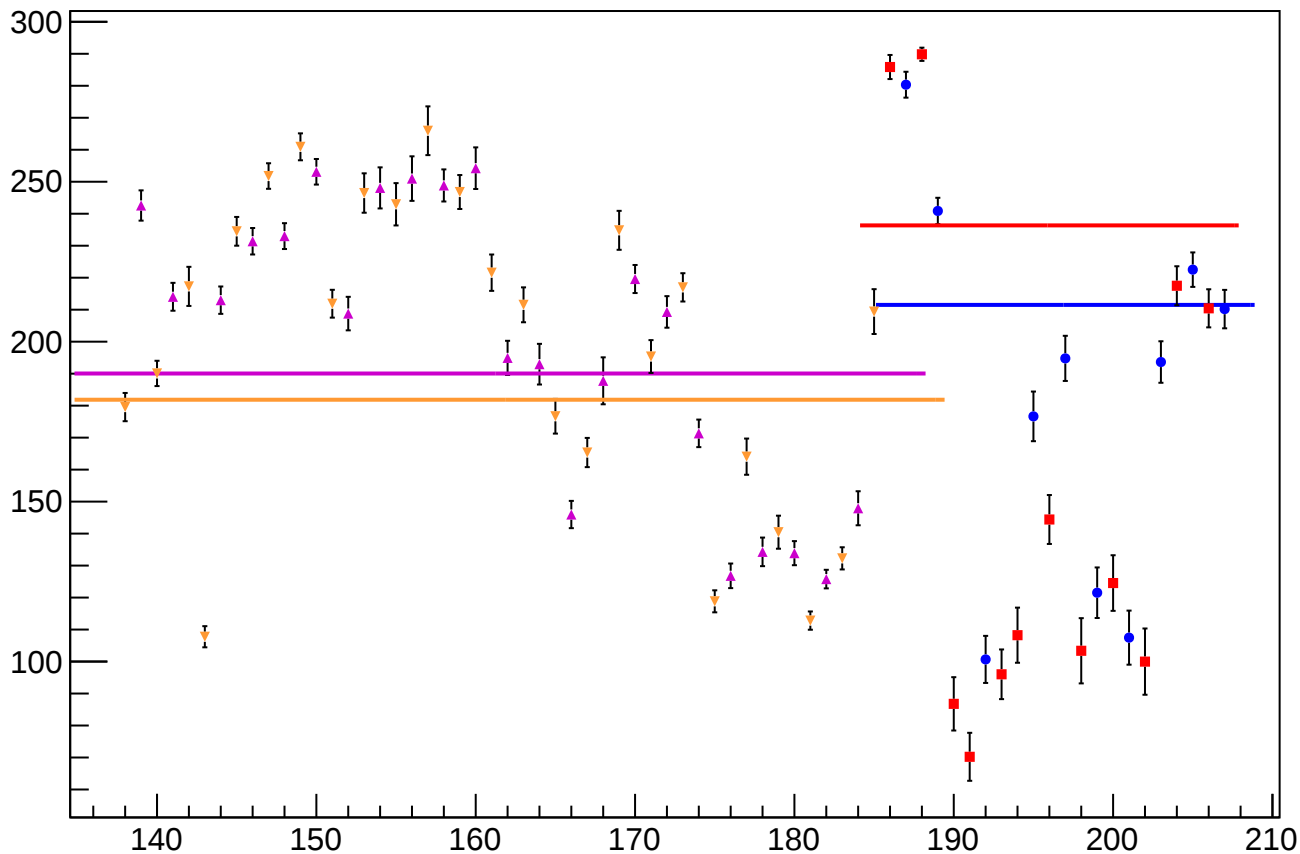
Right: 95.241 $\pm$ 0.038 χ^2 /NDF: 344445.3/57

In: 115.548 $\pm$ 0.033 χ^2 /NDF: 468733.1/49

Out: 108.716 $\pm$ 0.032 χ^2 /NDF: 1127255.4/55

All: 111.998 $\pm$ 0.023 χ^2 /NDF: 1618080.7/105

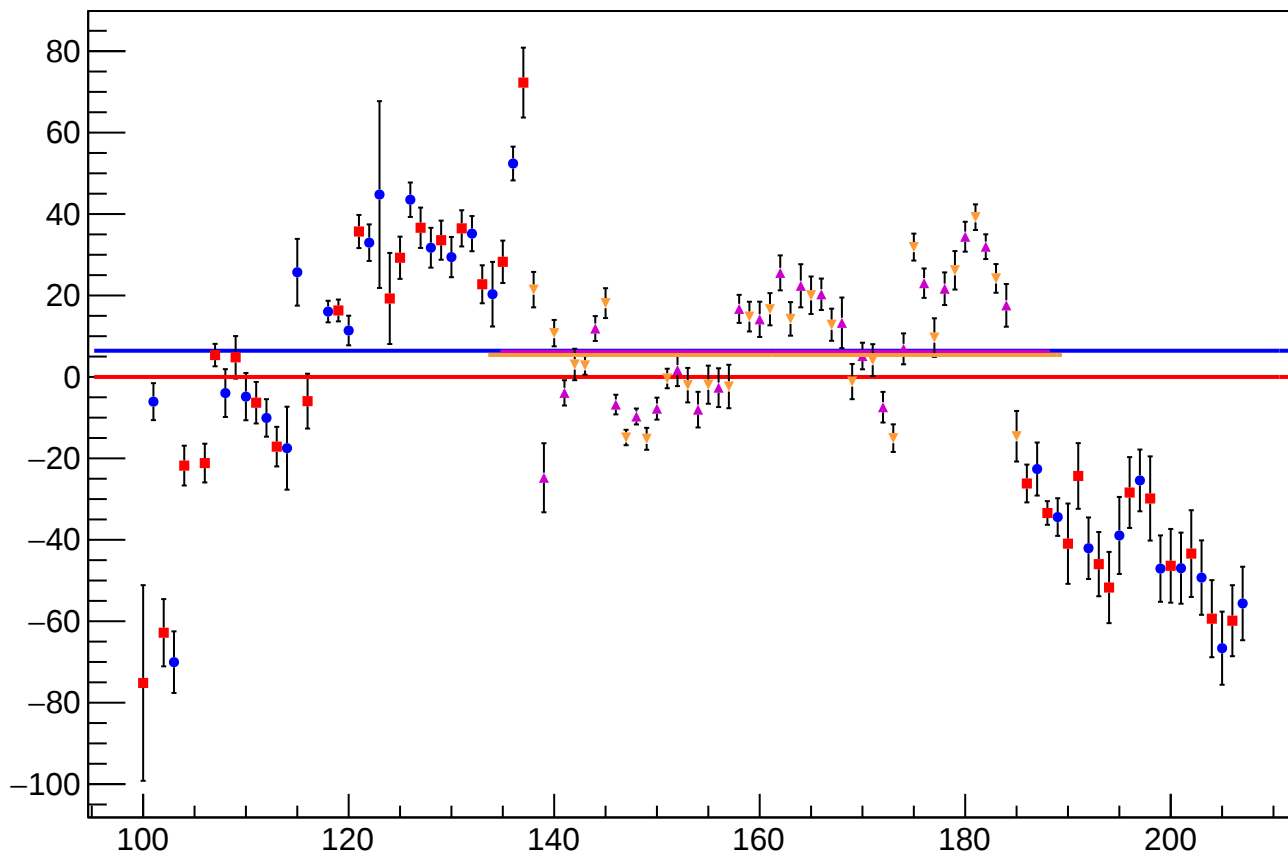
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.497 ± 1.853 $\chi^2/\text{NDF}: 885.8/9$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 236.352 ± 1.457 $\chi^2/\text{NDF}: 2883.9/11$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 226.854 ± 1.145 $\chi^2/\text{NDF}: 3880.9/21$
 In: 194.533 ± 0.847 $\chi^2/\text{NDF}: 3430.2/32$
 Out: 197.222 ± 0.774 $\chi^2/\text{NDF}: 7191.6/36$
 All: 195.999 ± 0.571 $\chi^2/\text{NDF}: 10627.2/69$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.432 ± 1.046 $\chi^2/\text{NDF}: 899.9/26$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -0.010 ± 0.938 $\chi^2/\text{NDF}: 978.6/30$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

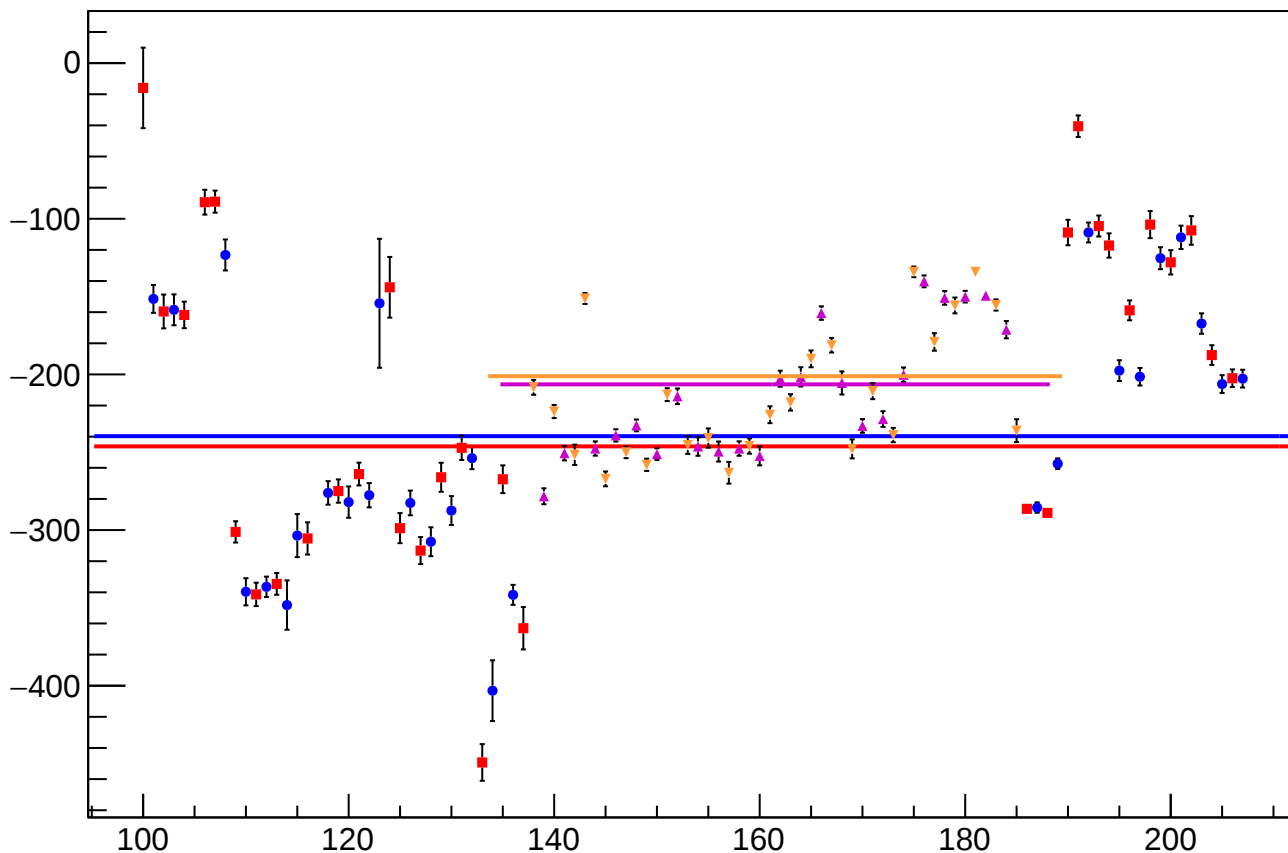
Right: 2.861 ± 0.698 $\chi^2/\text{NDF}: 1899.4/57$

In: 6.281 ± 0.600 $\chi^2/\text{NDF}: 1307.4/49$

Out: 3.503 ± 0.555 $\chi^2/\text{NDF}: 1526.6/55$

All: 4.784 ± 0.407 $\chi^2/\text{NDF}: 2845.6/105$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.685 ± 1.307 χ^2/NDF : 2691.7/26

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -246.228 ± 1.046 χ^2/NDF : 5821.8/30

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

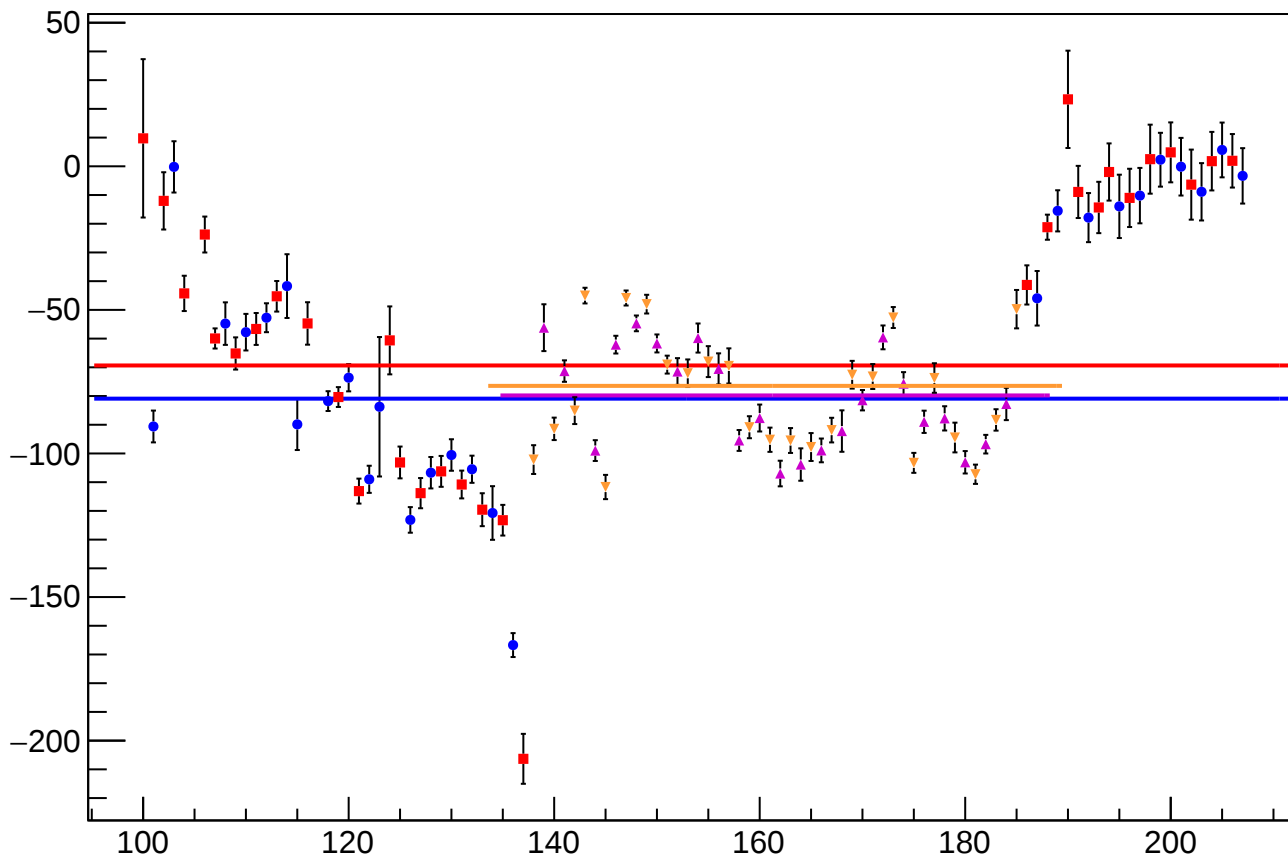
Right: -243.673 ± 0.817 χ^2/NDF : 8528.8/57

In: -217.882 ± 0.768 χ^2/NDF : 5228.2/49

Out: -220.750 ± 0.690 χ^2/NDF : 9359.8/55

All: -219.469 ± 0.513 χ^2/NDF : 14595.7/105

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -80.910 ± 1.221 $\chi^2/\text{NDF}: 1371.9/26$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -69.355 ± 1.120 $\chi^2/\text{NDF}: 1465.8/30$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

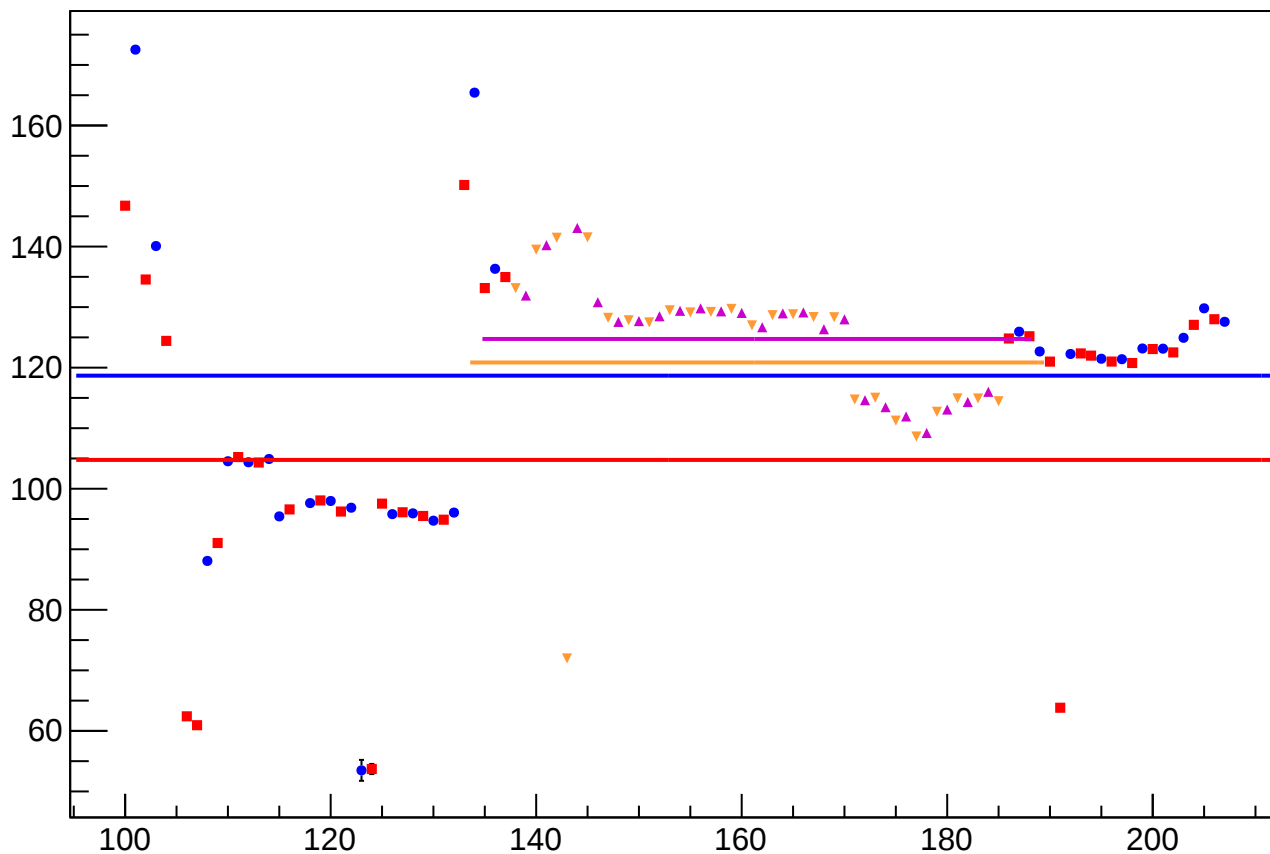
Right: -74.634 ± 0.826 $\chi^2/\text{NDF}: 2886.4/57$

In: -80.151 ± 0.692 $\chi^2/\text{NDF}: 1784.8/49$

Out: -74.073 ± 0.649 $\chi^2/\text{NDF}: 2273.9/55$

All: -76.919 ± 0.473 $\chi^2/\text{NDF}: 4099.7/105$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.677 $\pm$ 0.063 χ^2 /NDF: 109458.6/26

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 104.761 $\pm$ 0.055 χ^2 /NDF: 242749.2/30

Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47

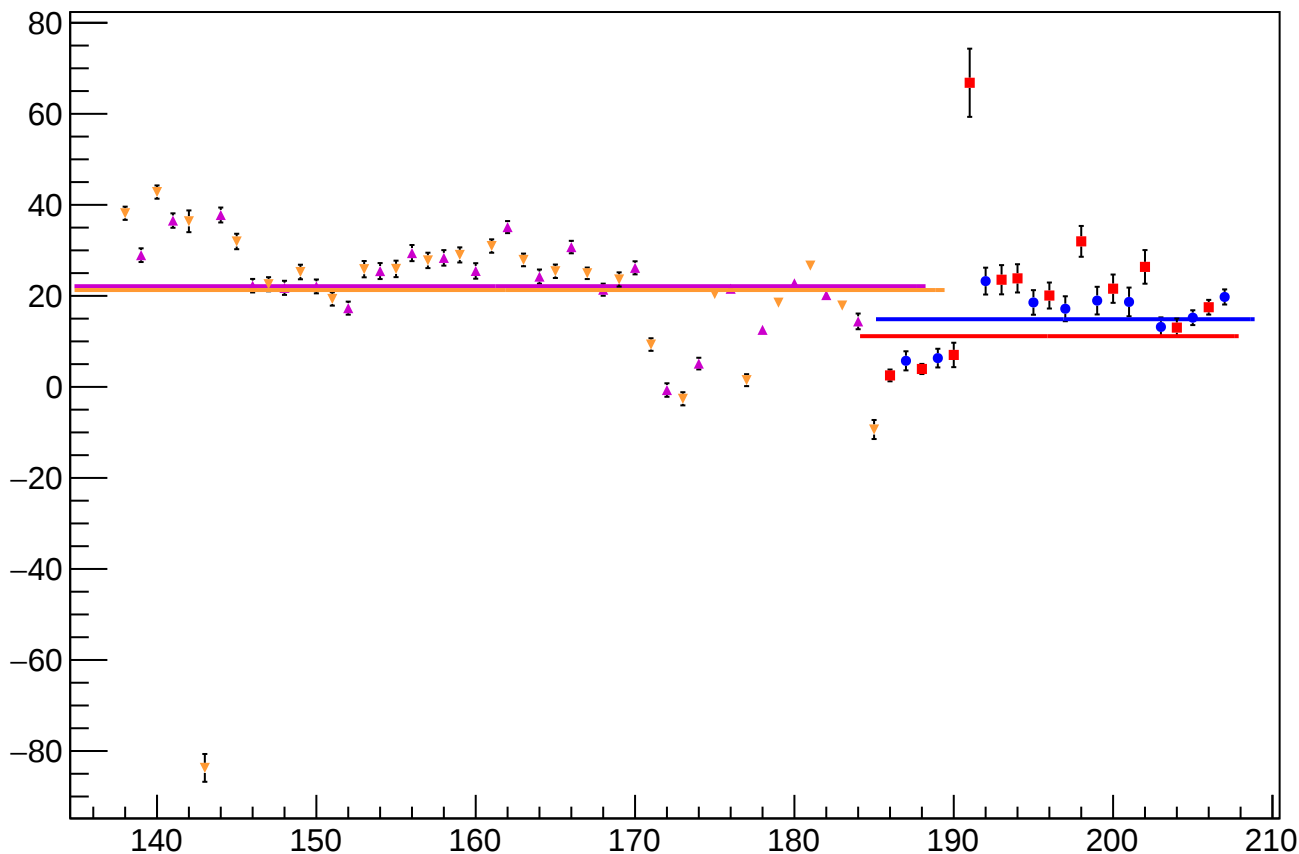
Right: 110.774 $\pm$ 0.041 χ^2 /NDF: 379800.7/57

In: 123.048 $\pm$ 0.033 χ^2 /NDF:167403.3/49

Out: 115.653 $\pm$ 0.031 χ^2 /NDF:483318.3/55

All: 119.119 $\pm$ 0.023 χ^2 /NDF: 676873.7/105

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.871 $\pm$ 0.703 χ^2 /NDF: 59.6/9

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 11.145 $\pm$ 0.600 χ^2 /NDF: 267.7/11

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

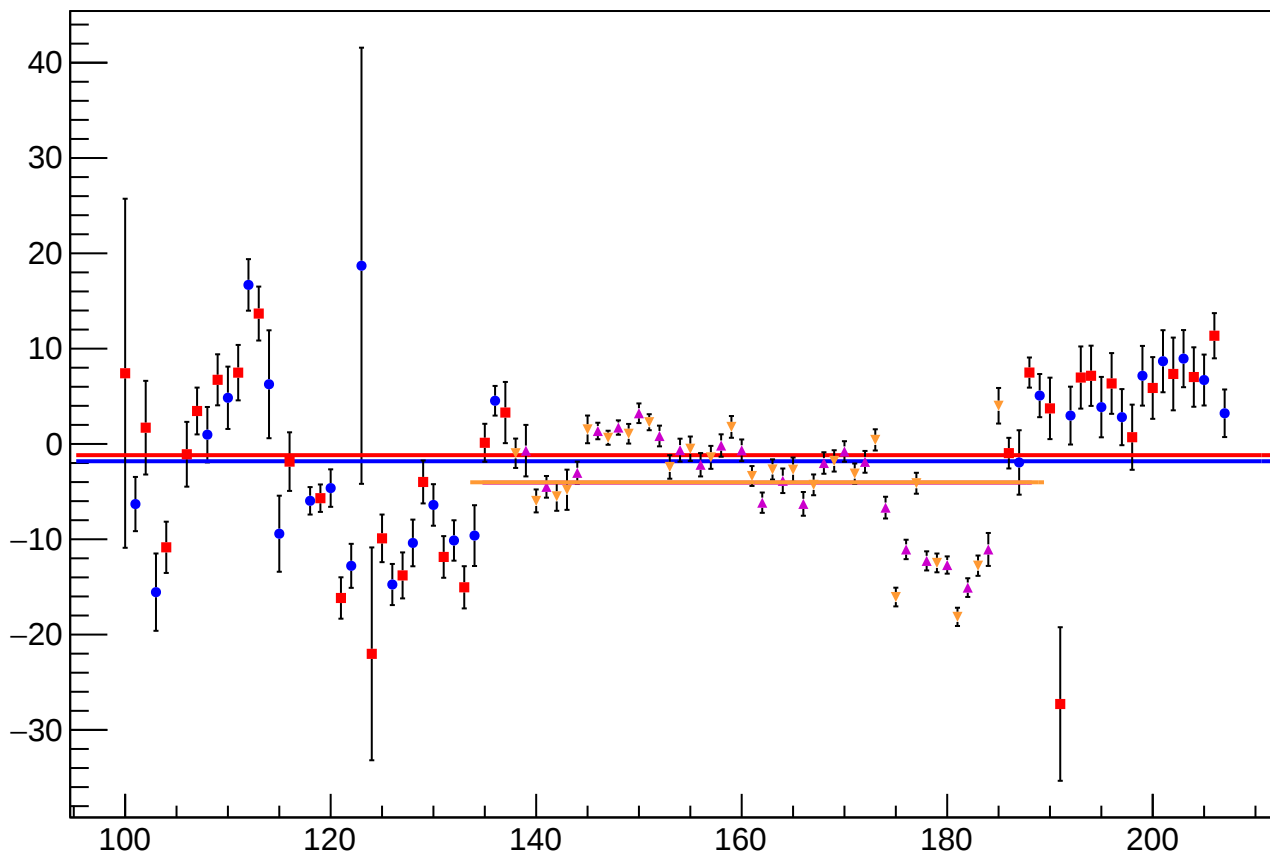
Right: 12.715 $\pm$ 0.456 χ^2 /NDF: 343.5/21

In: 21.099 $\pm$ 0.264 χ^2 /NDF:1051.3/32

Out: 19.441 $\pm$ 0.255 χ^2 /NDF:3102.1/36

All: 20.241 $\pm$ 0.184 χ^2 /NDF: 4173.7/69

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.813 ± 0.494 $\chi^2/\text{NDF}: 259.0/26$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -1.176 ± 0.464 $\chi^2/\text{NDF}: 336.2/30$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

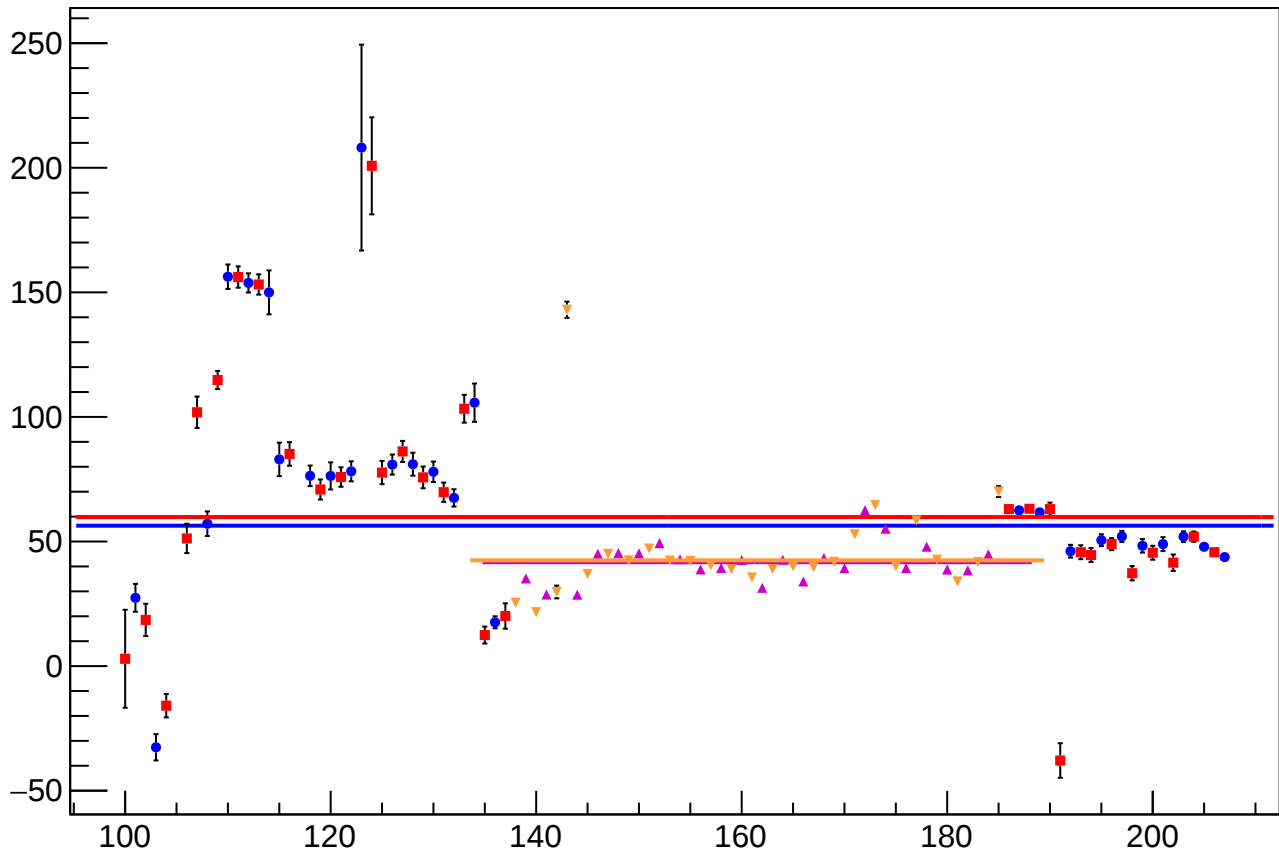
Right: -1.475 ± 0.338 $\chi^2/\text{NDF}: 596.1/57$

In: -3.664 ± 0.207 $\chi^2/\text{NDF}: 853.3/49$

Out: -3.488 ± 0.201 $\chi^2/\text{NDF}: 1100.9/55$

All: -3.573 ± 0.144 $\chi^2/\text{NDF}: 1954.5/105$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.361 $\pm$ 0.553 χ^2 /NDF: 2133.9/26

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF: 2016.0/24

Right Out: 59.816 $\pm$ 0.465 χ^2 /NDF: 2627.7/30

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

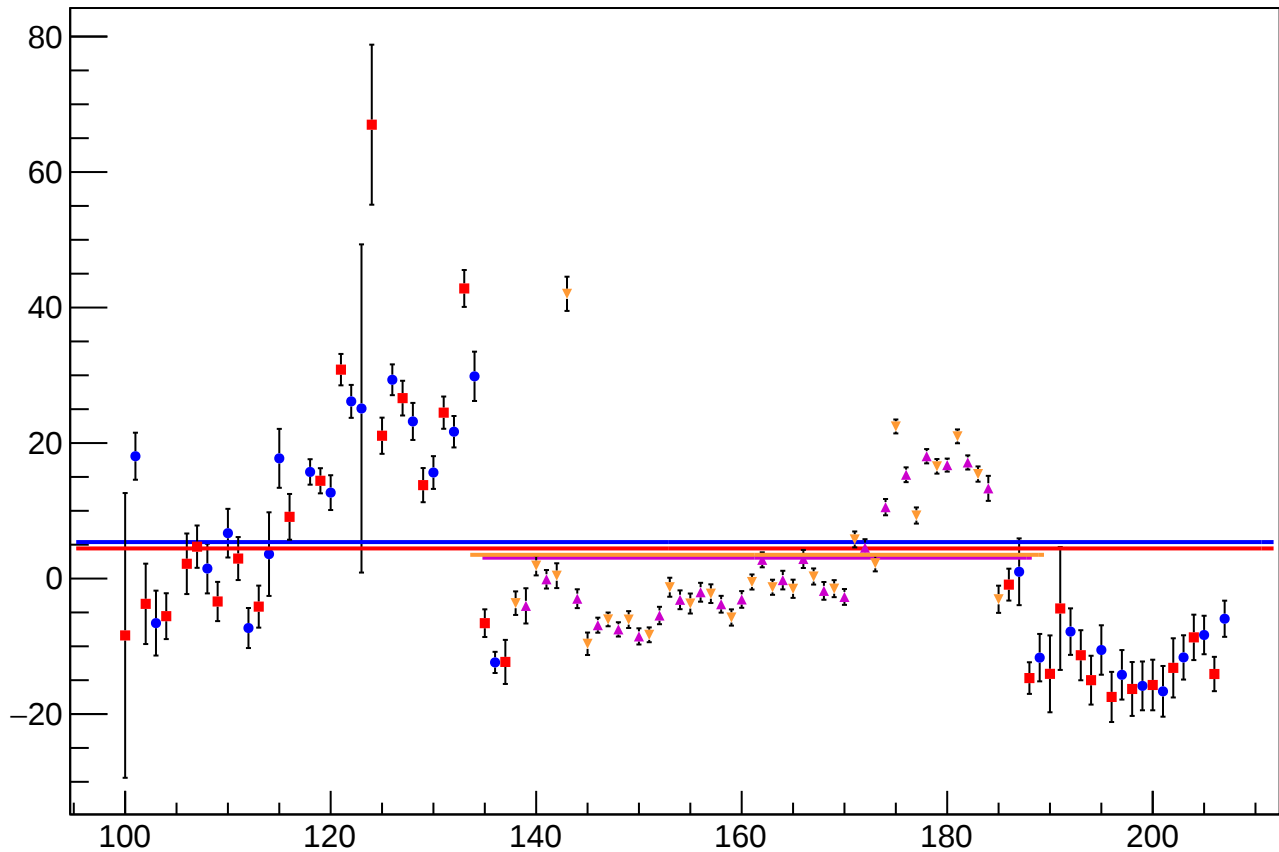
Right: 58.386 $\pm$ 0.356 χ^2 /NDF: 4784.4/57

In: 44.757 $\pm$ 0.253 χ^2 /NDF: 3320.4/49

Out: 47.120 $\pm$ 0.241 χ^2 /NDF: 5663.4/55

All: 45.994 $\pm$ 0.174 χ^2 /NDF: 9029.6/105

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.385 $\pm$ 0.567 χ^2 /NDF: 779.8/26

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 4.445 $\pm$ 0.549 χ^2 /NDF: 975.7/30

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

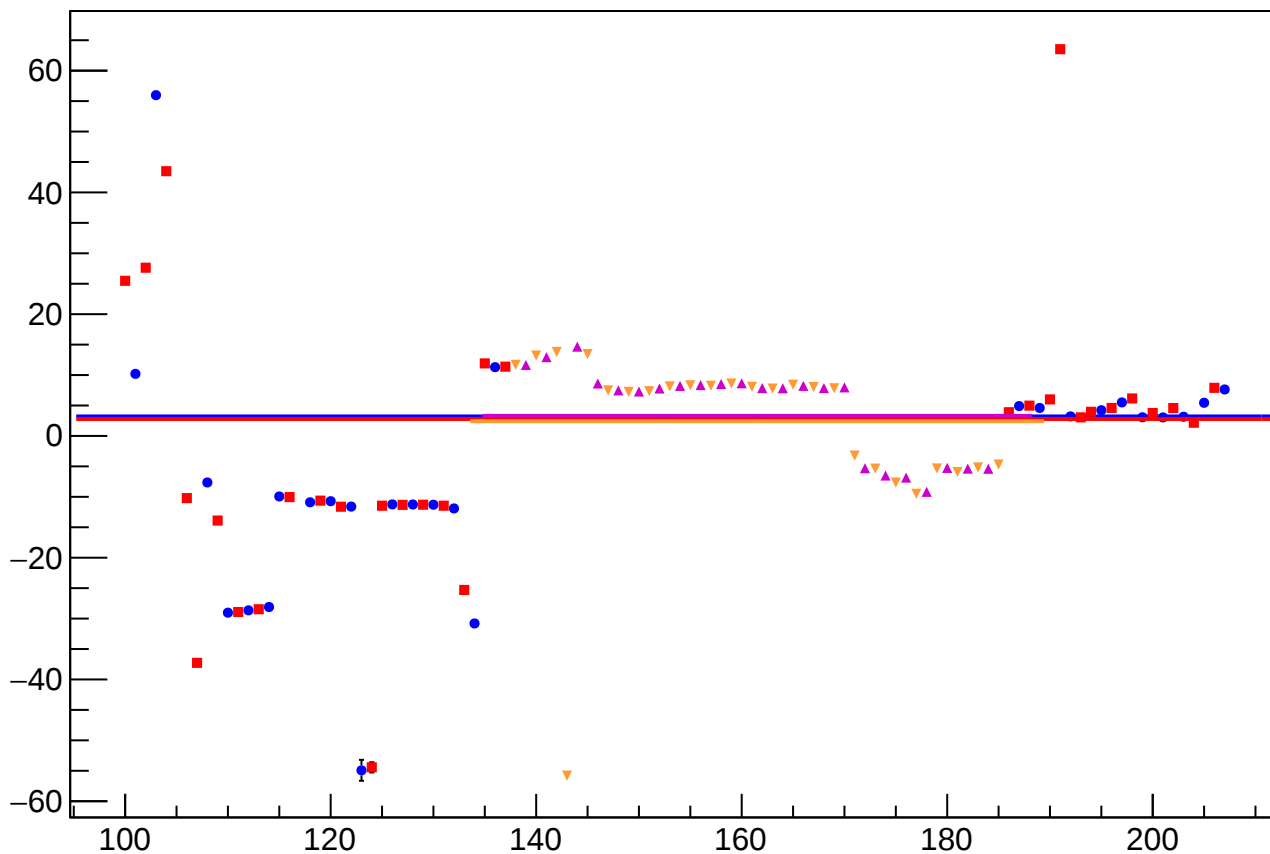
Right: 4.900 $\pm$ 0.394 χ^2 /NDF: 1757.0/57

In: 3.474 $\pm$ 0.234 χ^2 /NDF:2059.2/49

Out: 3.669 $\pm$ 0.229 χ^2 /NDF:2669.4/55

All: 3.574 $\pm$ 0.164 χ^2 /NDF: 4729.0/105

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.199 $\pm$ 0.027 χ^2 /NDF: 361724.0/26

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.790 $\pm$ 0.026 χ^2 /NDF: 434254.1/30

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

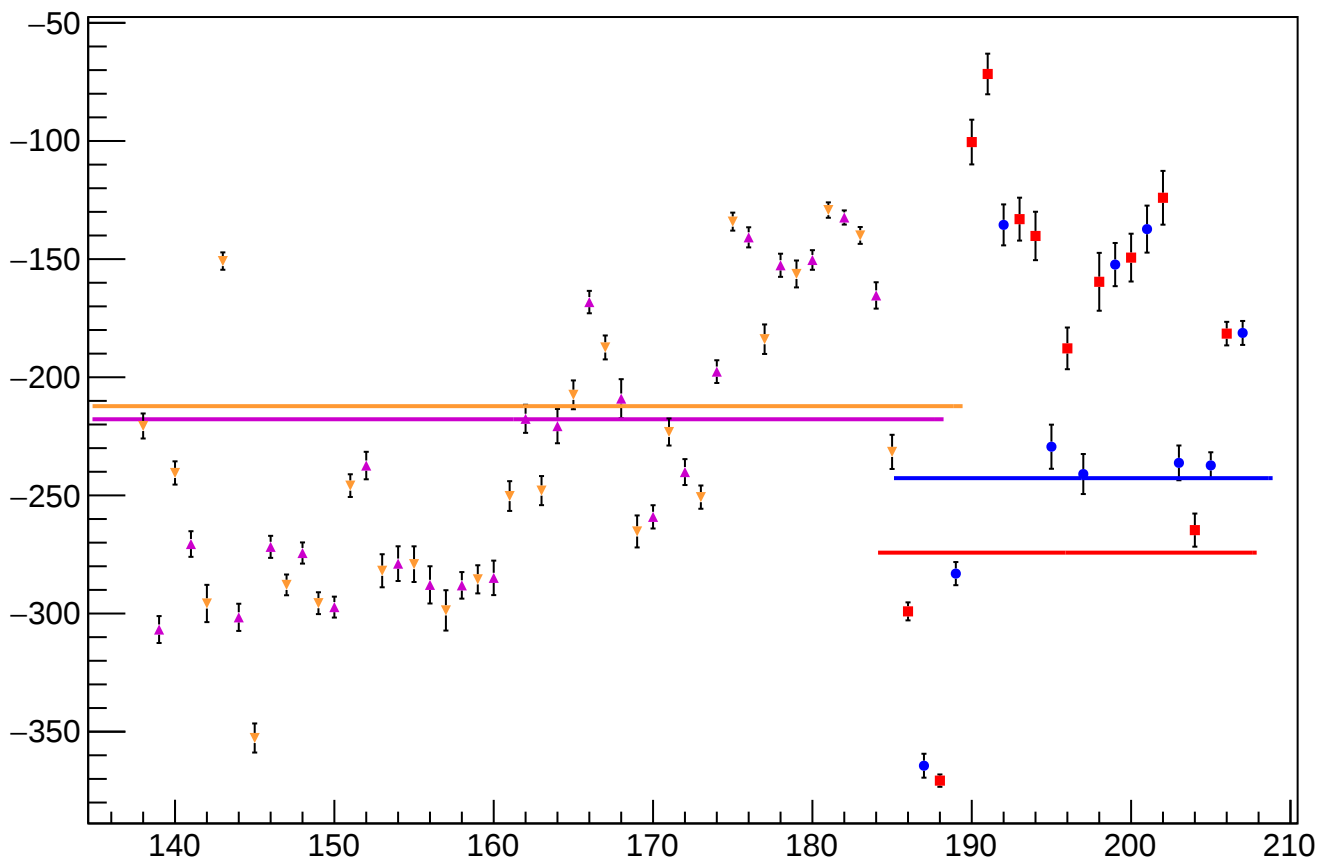
Right: 2.989 $\pm$ 0.018 χ^2 /NDF: 796100.0/57

In: 3.277 $\pm$ 0.011 χ^2 /NDF: 766058.3/49

Out: 2.486 $\pm$ 0.011 χ^2 /NDF: 1050803.3/55

All: 2.877 $\pm$ 0.008 χ^2 /NDF: 1819640.5/105

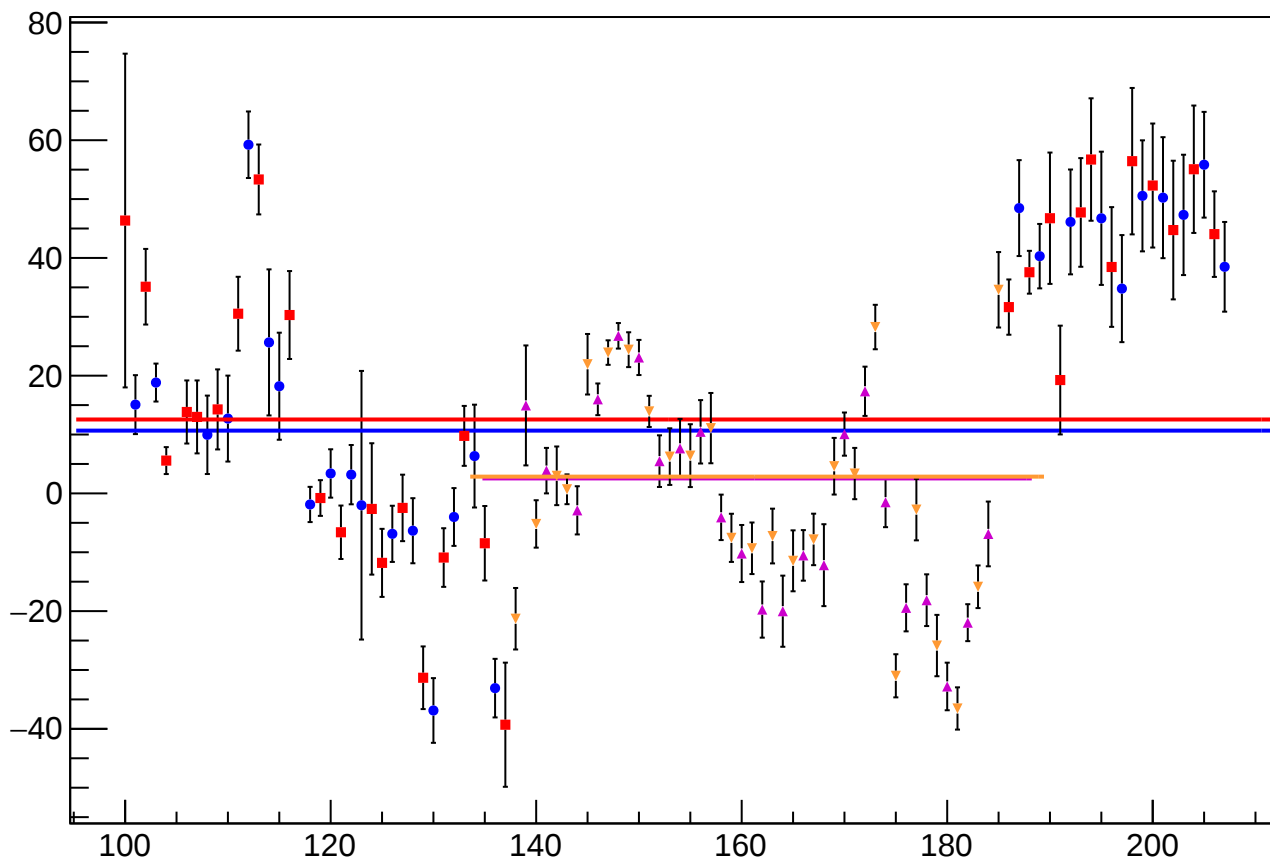
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -242.703 ± 2.080 $\chi^2/\text{NDF}: 1159.8/9$
 Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$
 Right Out: -274.233 ± 1.668 $\chi^2/\text{NDF}: 3570.6/11$
 Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$
 Right: -261.890 ± 1.301 $\chi^2/\text{NDF}: 4870.3/21$
 In: -222.971 ± 0.949 $\chi^2/\text{NDF}: 4722.4/32$
 Out: -229.332 ± 0.876 $\chi^2/\text{NDF}: 8446.6/36$
 All: -226.406 ± 0.644 $\chi^2/\text{NDF}: 13193.2/69$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.664 $\pm$ 1.129 χ^2 /NDF: 458.8/26

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF:582.1/24

Right Out: 12.556 $\pm$ 1.017 χ^2 /NDF: 454.8/30

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF:473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

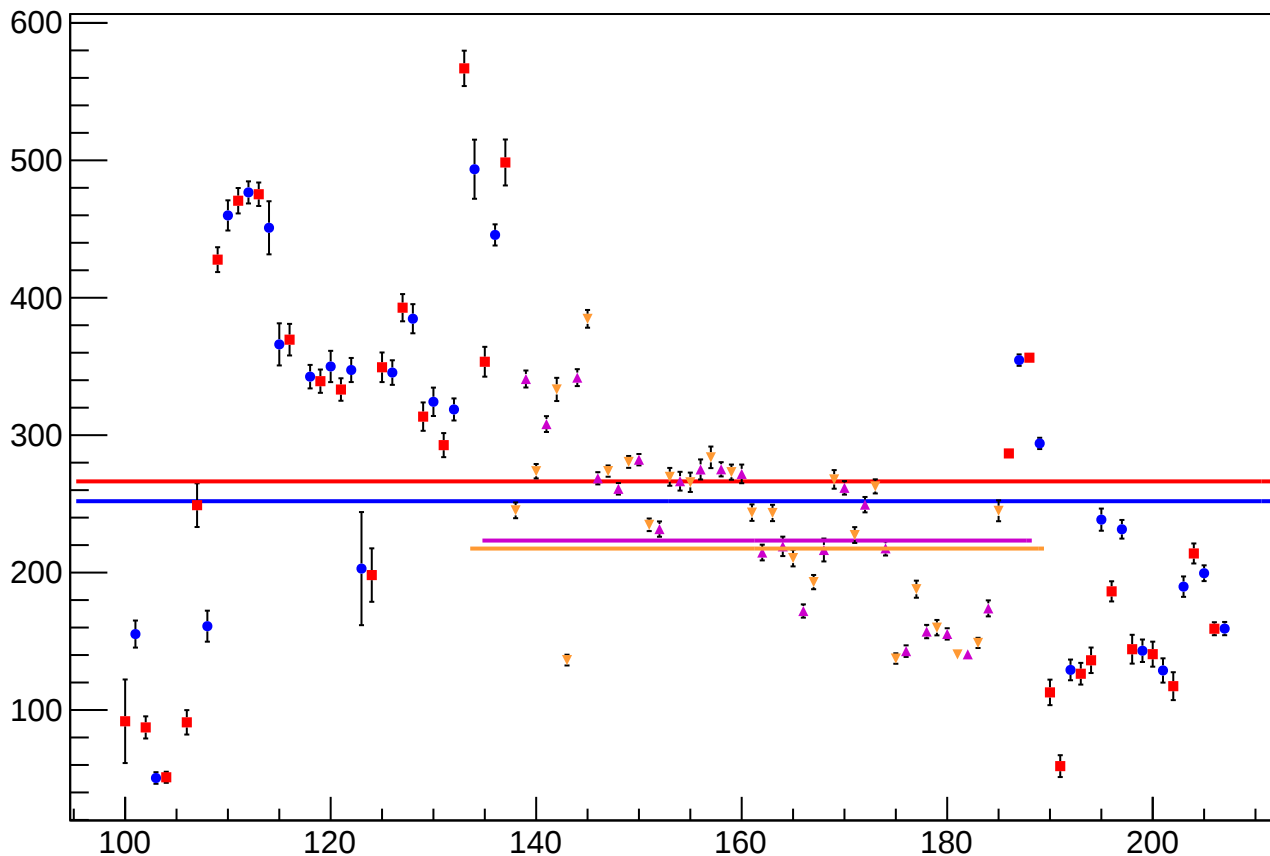
Right: 11.708 $\pm$ 0.756 χ^2 /NDF: 915.2/57

In: 5.358 $\pm$ 0.665 χ^2 /NDF:966.3/49

Out: 6.412 $\pm$ 0.616 χ^2 /NDF:1094.6/55

All: 5.925 $\pm$ 0.452 χ^2 /NDF: 2062.2/105

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 251.949+/-1.420 χ^2/NDF : 7067.7/26

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 266.365+/-1.168 χ^2/NDF : 11030.7/30

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

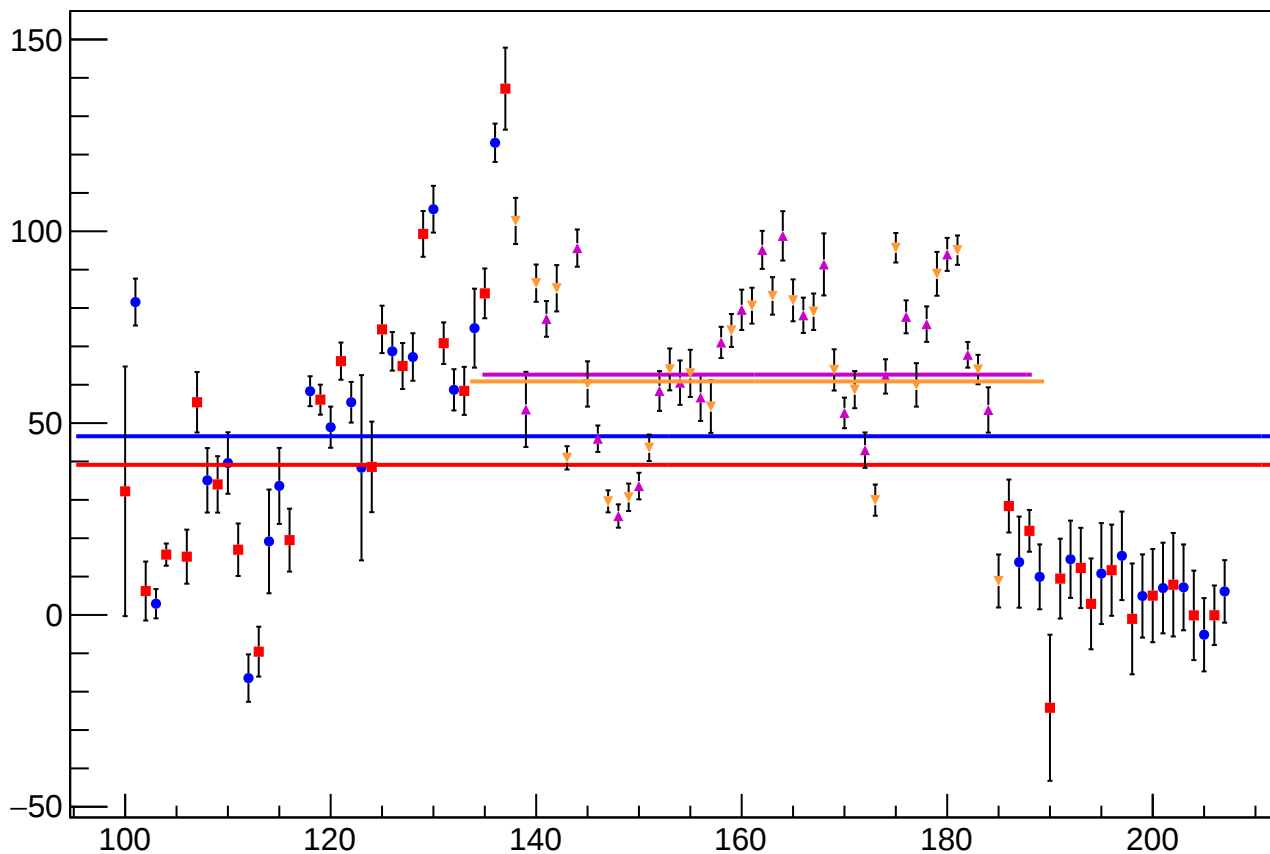
Right: 260.549+/-0.902 χ^2/NDF : 18160.0/57

In: 233.583+/-0.850 χ^2/NDF : 10706.7/49

Out: 238.931+/-0.773 χ^2/NDF : 15783.9/55

All: 236.510+/-0.572 χ^2/NDF : 26512.2/105

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 46.579 $\pm$ 1.318 χ^2/NDF : 804.1/26

Left Out: 60.863 $\pm$ 0.897 χ^2/NDF : 731.6/24

Right Out: 39.124 $\pm$ 1.219 χ^2/NDF : 661.4/30

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

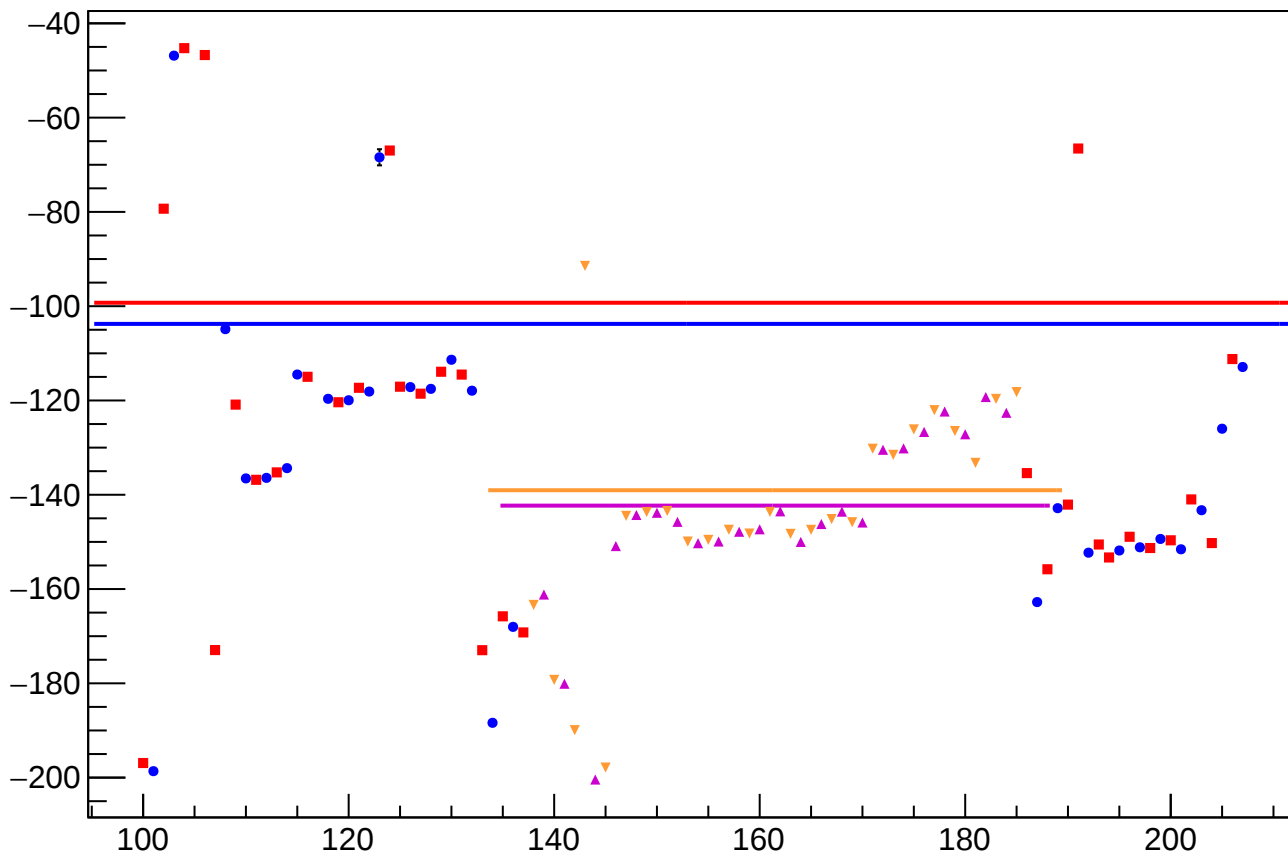
Right: 42.562 $\pm$ 0.895 χ^2/NDF : 1482.7/57

In: 57.204 $\pm$ 0.767 χ^2/NDF : 1417.7/49

Out: 53.234 $\pm$ 0.722 χ^2/NDF : 1599.3/55

All: 55.101 $\pm$ 0.526 χ^2/NDF : 3031.2/105

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -103.755+/-0.059 χ^2/NDF : 693523.8/26

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -99.269+/-0.055 χ^2/NDF : 728477.6/30

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

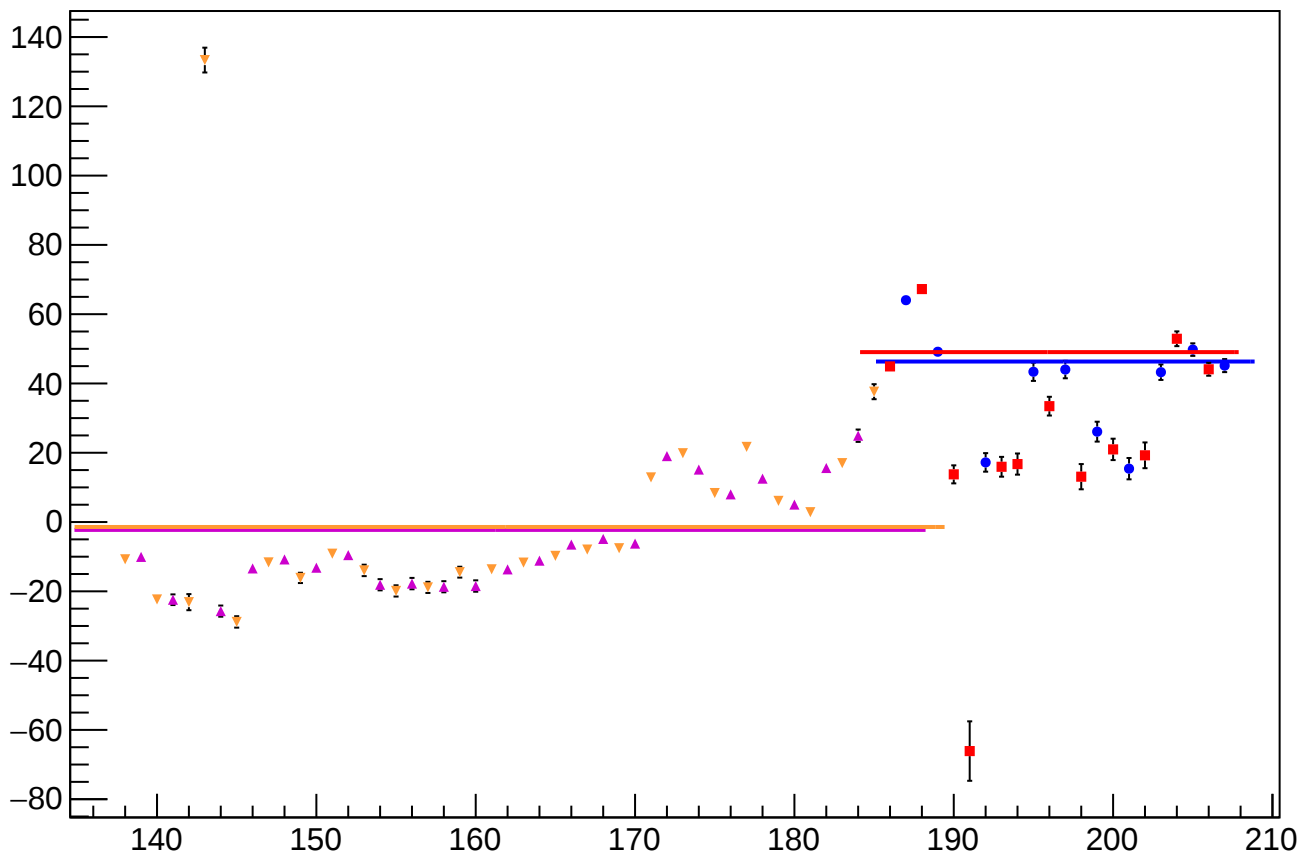
Right: -101.371+/-0.040 χ^2/NDF : 1425102.3/57

In: -128.417+/-0.035 χ^2/NDF : 1112439.3/49

Out: -124.060+/-0.034 χ^2/NDF : 1310771.8/55

All: -126.150+/-0.024 χ^2/NDF : 2431159.7/100

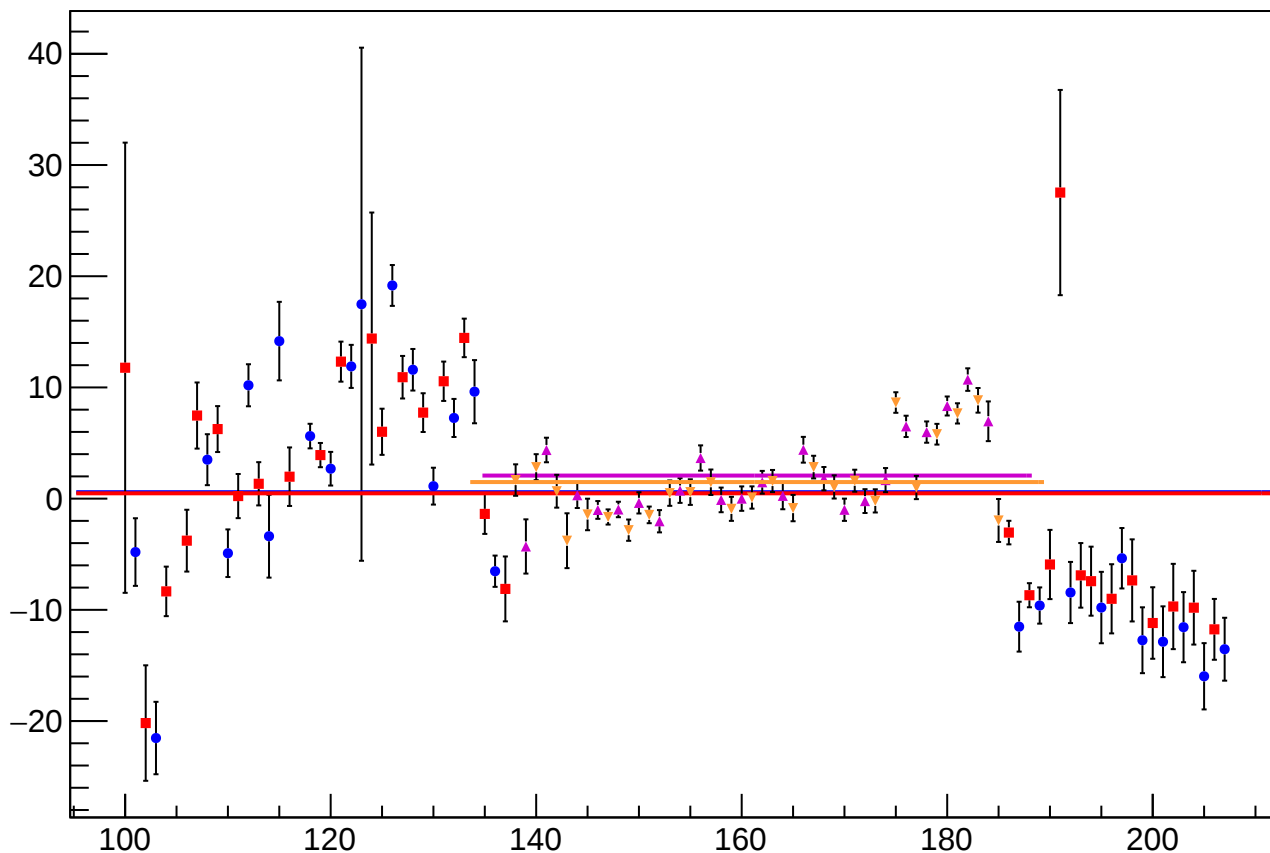
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 46.332 ± 0.640 $\chi^2/\text{NDF}: 442.2/9$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 49.052 ± 0.483 $\chi^2/\text{NDF}: 1472.7/11$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 48.066 ± 0.385 $\chi^2/\text{NDF}: 1926.4/21$
 In: 5.102 ± 0.249 $\chi^2/\text{NDF}: 7852.2/32$
 Out: 10.443 ± 0.234 $\chi^2/\text{NDF}: 14177.2/36$
 All: 7.942 ± 0.171 $\chi^2/\text{NDF}: 22273.2/69$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.580 ± 0.409 χ^2/NDF : 547.7/26

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: 0.478 ± 0.375 χ^2/NDF : 436.2/30

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

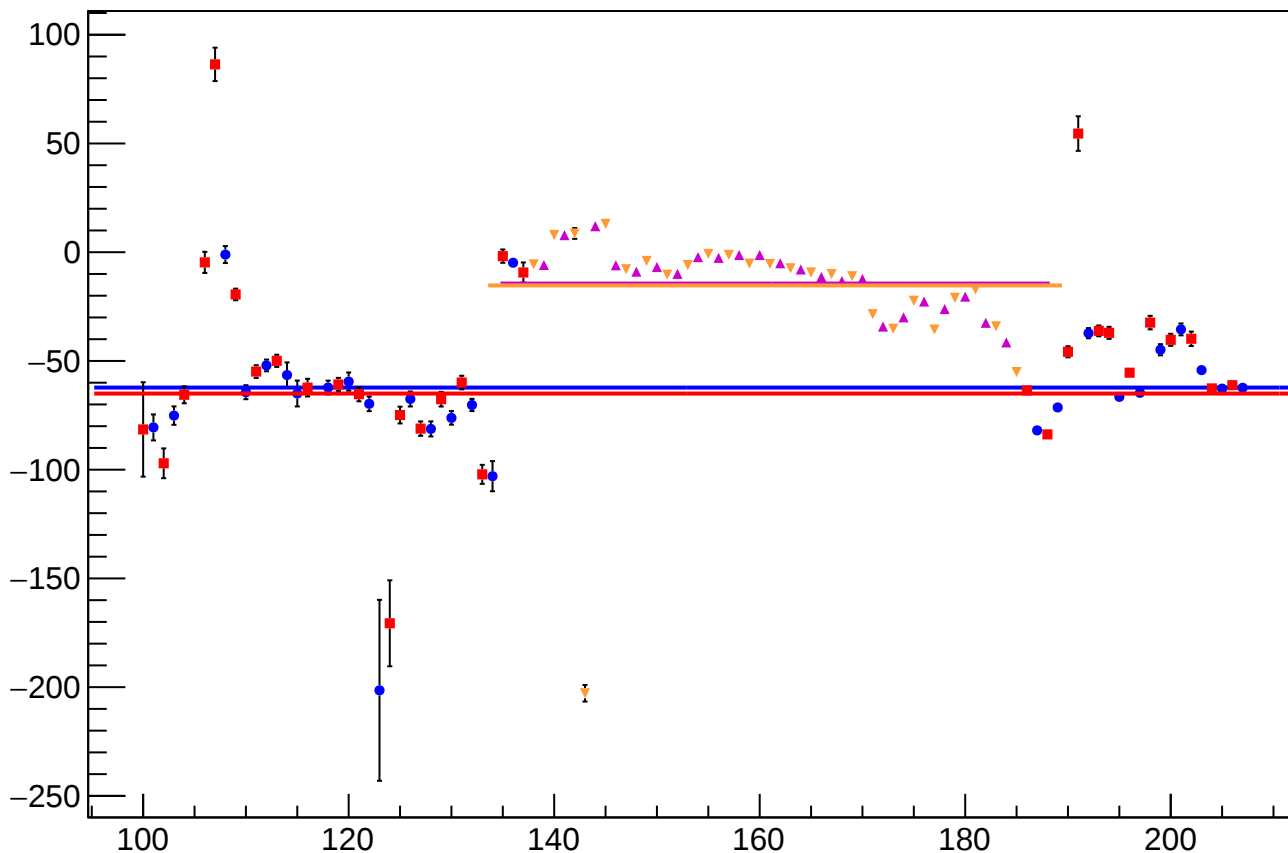
Right: 0.525 ± 0.277 χ^2/NDF : 984.0/57

In: 1.750 ± 0.191 χ^2/NDF : 832.7/49

Out: 1.249 ± 0.183 χ^2/NDF : 700.9/55

All: 1.490 ± 0.132 χ^2/NDF : 1537.2/105

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.242 $\pm$ 0.474 χ^2 /NDF: 1723.4/26

Left Out: -15.279 $\pm$ 0.267 χ^2 /NDF: 4820.1/24

Right Out: -64.991 $\pm$ 0.364 χ^2 /NDF: 3307.6/30

Left In: -14.406 $\pm$ 0.269 χ^2 /NDF: 2032.4/22

Left: -14.846 $\pm$ 0.189 χ^2 /NDF: 6857.8/47

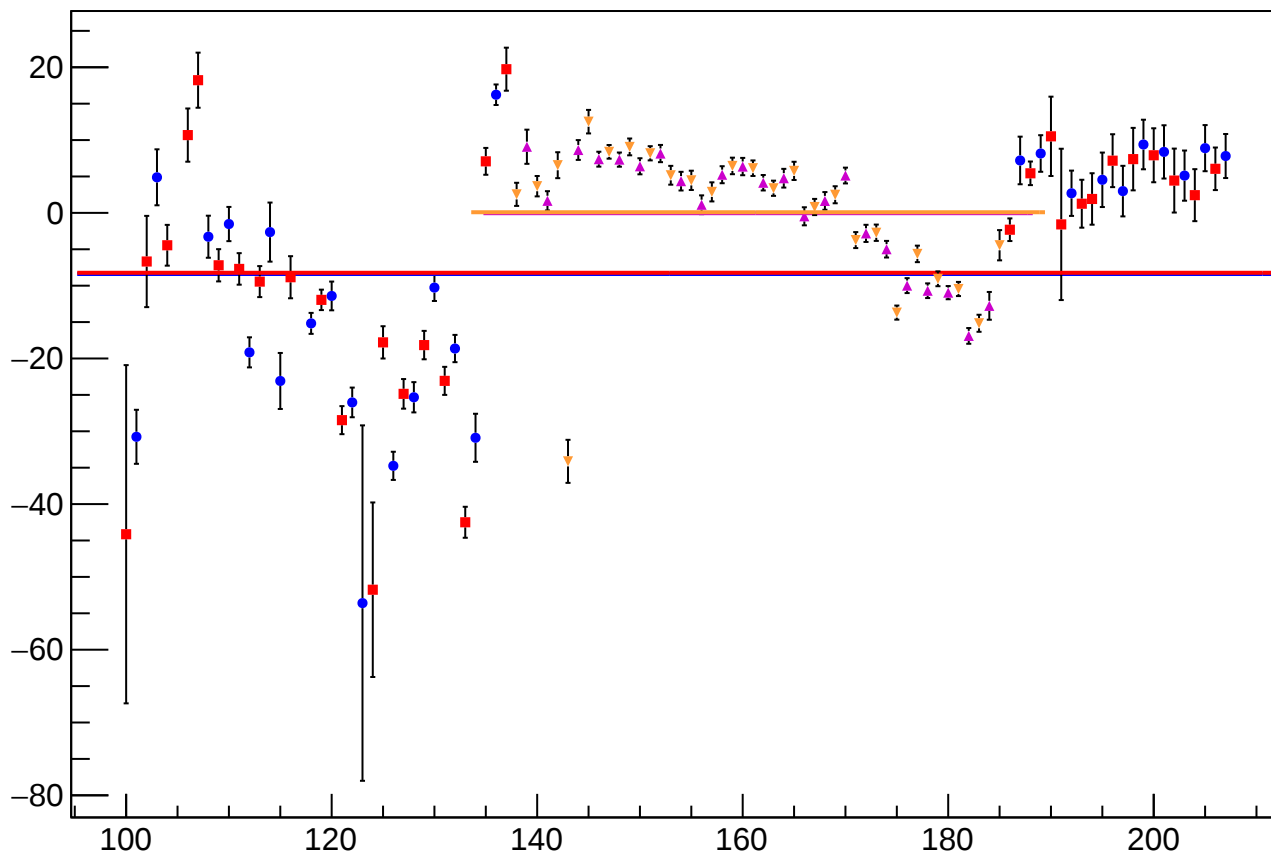
Right: -63.970 $\pm$ 0.289 χ^2 /NDF: 5052.1/57

In: -26.072 $\pm$ 0.234 χ^2 /NDF: 11461.8/49

Out: -32.625 $\pm$ 0.215 χ^2 /NDF: 20242.0/55

All: -29.621 $\pm$ 0.158 χ^2 /NDF: 32128.5/105

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.397 ± 0.475 χ^2/NDF : 1064.4/26

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.228 ± 0.451 χ^2/NDF : 1005.4/30

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

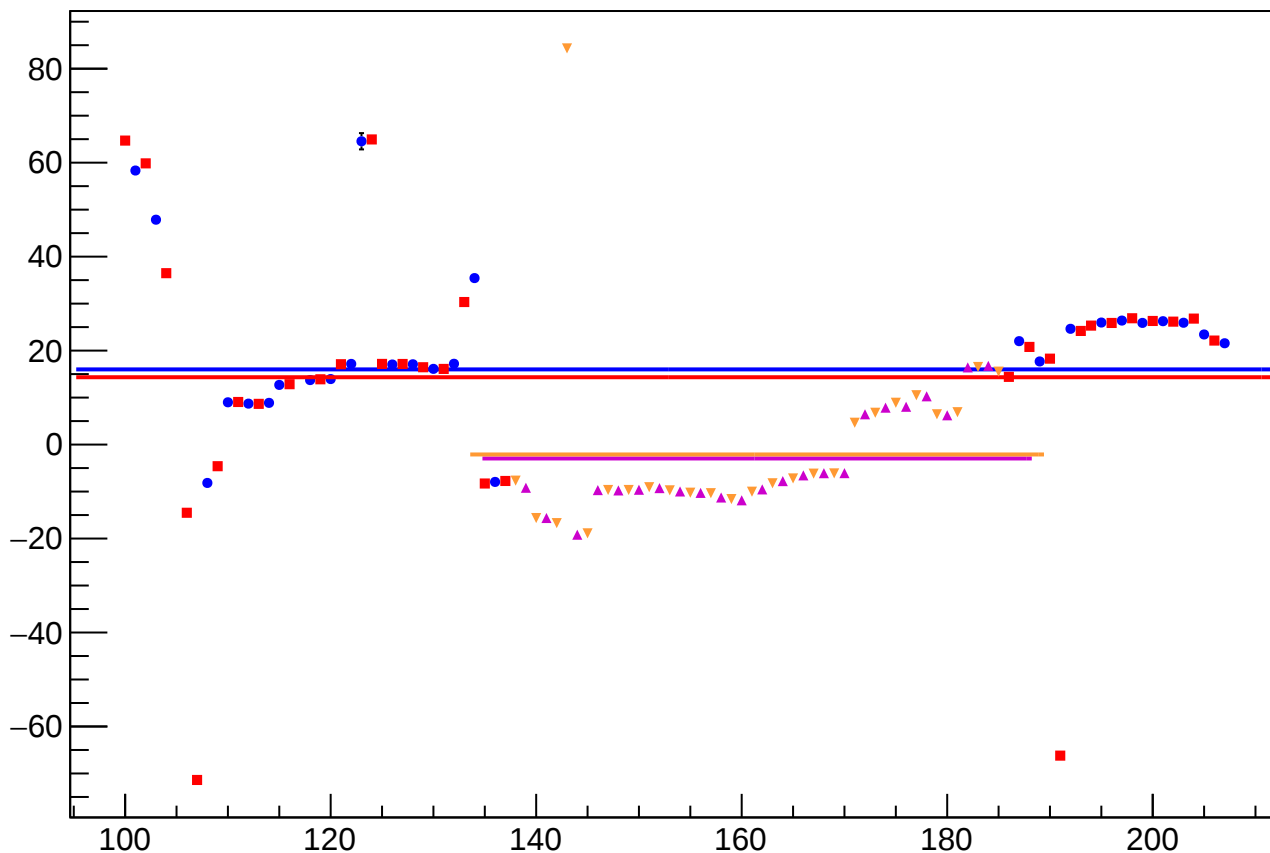
Right: -8.308 ± 0.327 χ^2/NDF : 2069.9/57

In: -1.774 ± 0.216 χ^2/NDF : 2337.3/49

Out: -1.725 ± 0.211 χ^2/NDF : 2443.1/55

All: -1.749 ± 0.151 χ^2/NDF : 4780.4/105

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.001 $\pm$ 0.024 χ^2 /NDF: 469920.2/26

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 14.332 $\pm$ 0.023 χ^2 /NDF: 747899.7/30

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF: 763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

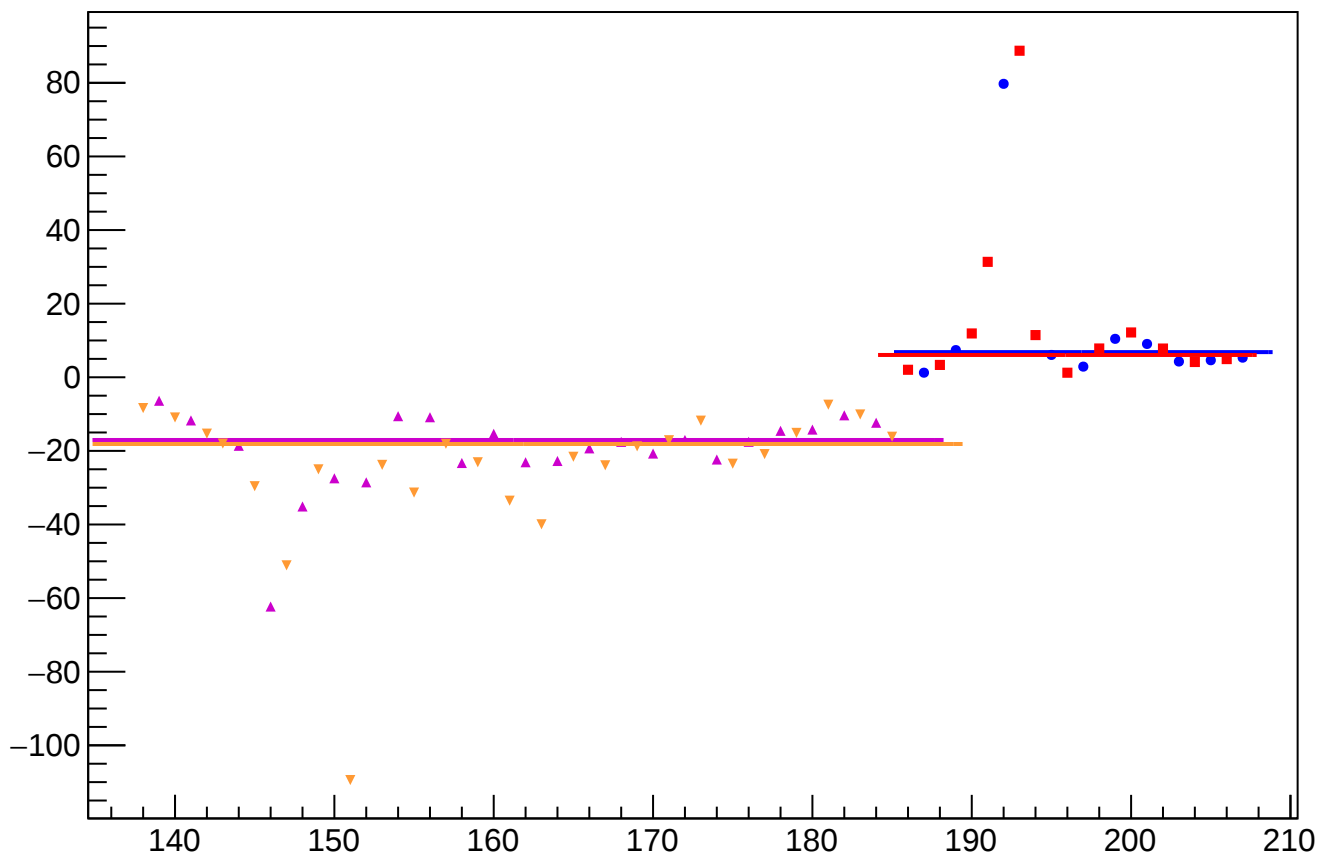
Right: 15.143 $\pm$ 0.016 χ^2 /NDF: 1220376.8/57

In: 0.414 $\pm$ 0.010 χ^2 /NDF: 1761301.2/49

Out: 0.920 $\pm$ 0.010 χ^2 /NDF: 2257858.2/55

All: 0.670 $\pm$ 0.007 χ^2 /NDF: 4020460.5/105

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.836 $\pm$ 0.064 χ^2 /NDF: 25198.6/9

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 6.061 $\pm$ 0.060 χ^2 /NDF: 25805.9/11

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

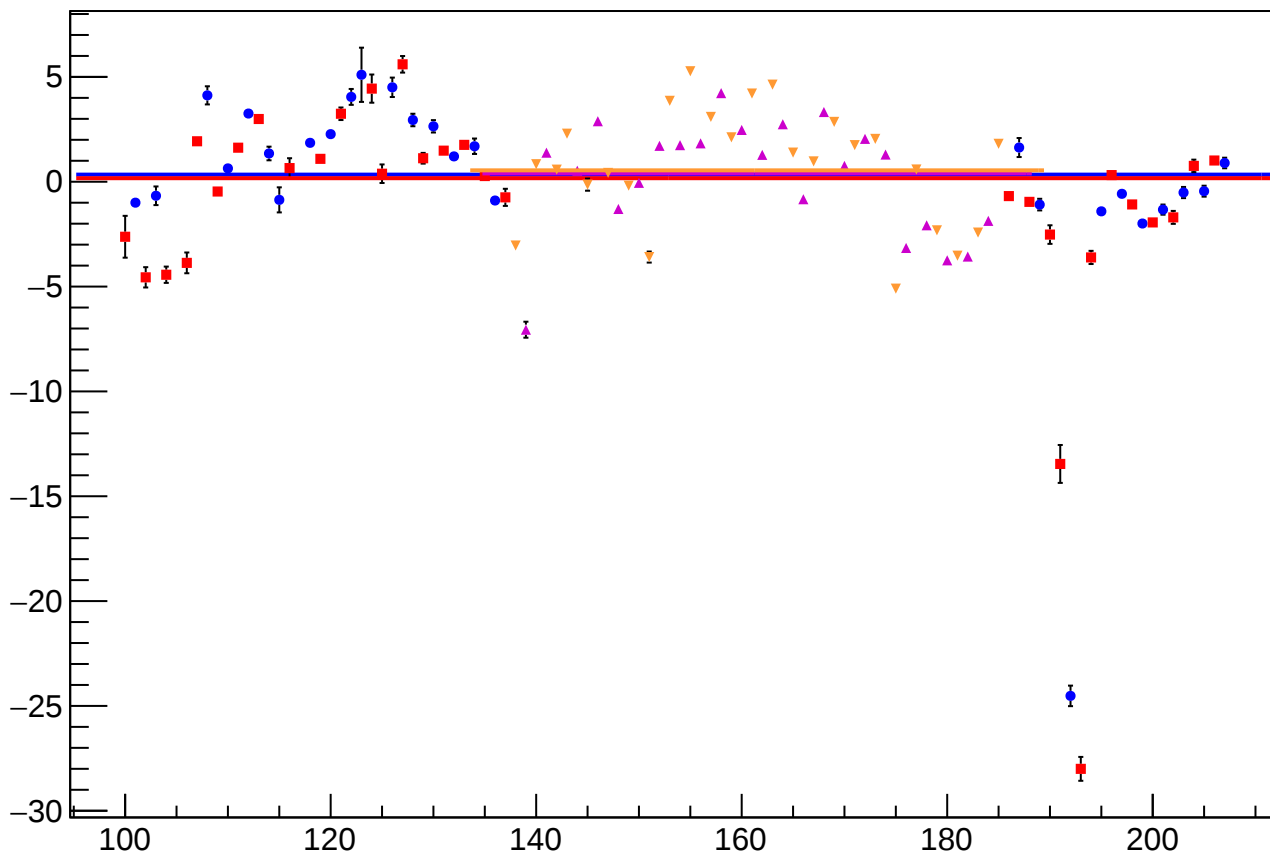
Right: 6.424 $\pm$ 0.044 χ^2 /NDF: 51082.9/21

In: -10.760 $\pm$ 0.033 χ^2 /NDF: 172309.0/32

Out: -10.960 $\pm$ 0.033 χ^2 /NDF: 228852.3/36

All: -10.861 $\pm$ 0.023 χ^2 /NDF: 401180.1/69

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.340 $\pm$ 0.049 χ^2 /NDF: 3826.5/26

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.169 $\pm$ 0.046 χ^2 /NDF: 4264.3/30

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

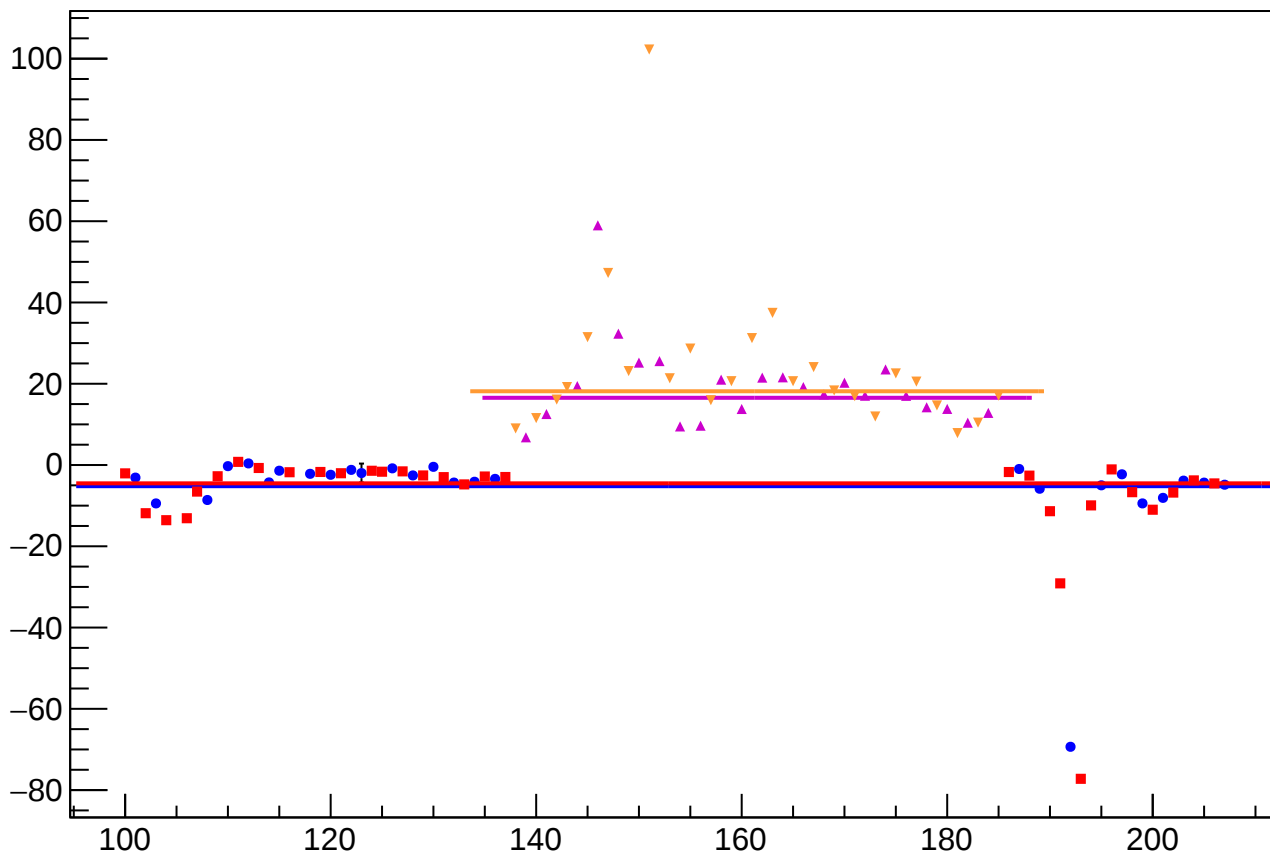
Right: 0.249 $\pm$ 0.034 χ^2 /NDF: 8097.3/57

In: 0.381 $\pm$ 0.026 χ^2 /NDF: 10063.1/49

Out: 0.419 $\pm$ 0.026 χ^2 /NDF: 11393.9/55

All: 0.400 $\pm$ 0.019 χ^2 /NDF: 21458.0/105

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.211 ± 0.051 χ^2/NDF : 26660.2/26

Left Out: 18.150 ± 0.039 χ^2/NDF : 77847.8/24

Right Out: -4.510 ± 0.046 χ^2/NDF : 27651.1/30

Left In: 16.543 ± 0.038 χ^2/NDF : 40855.0/22

Left: 17.318 ± 0.027 χ^2/NDF : 119577.9/47

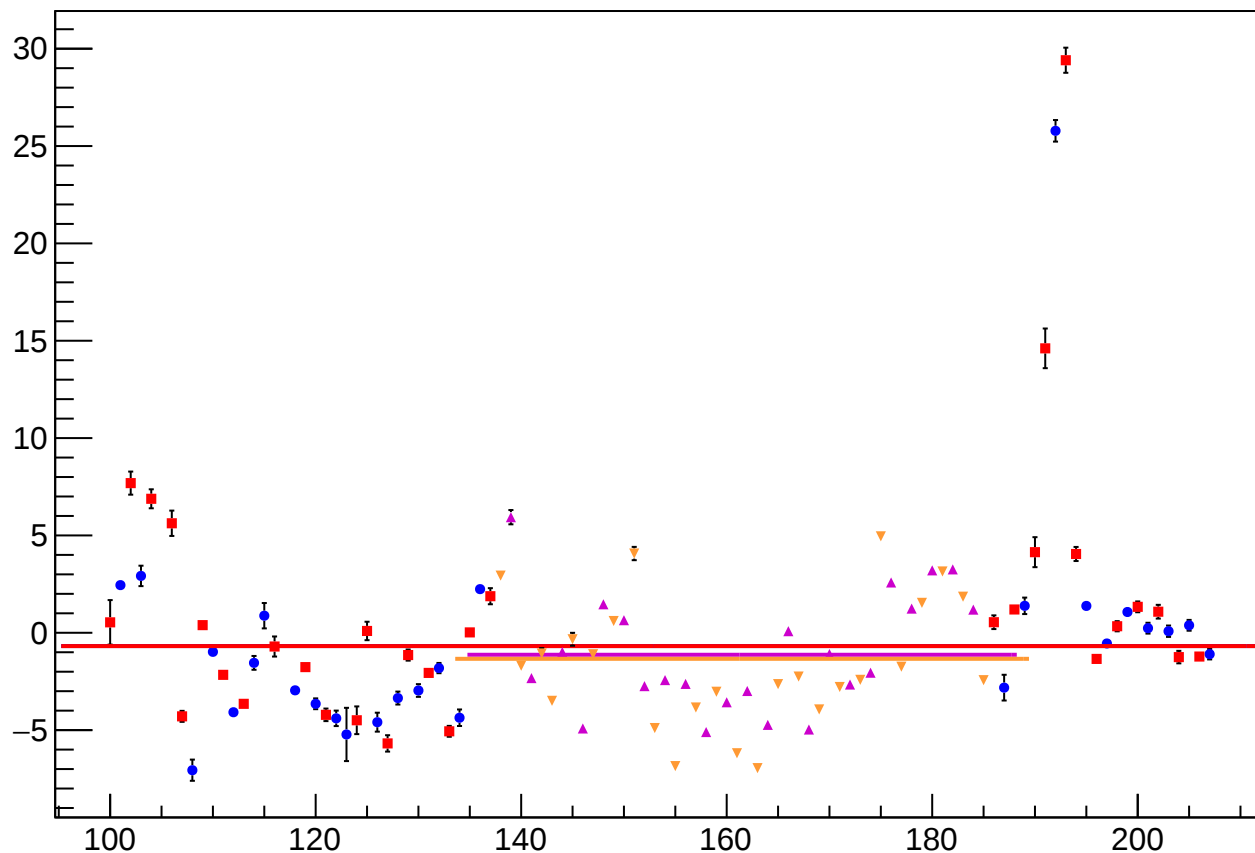
Right: -4.822 ± 0.034 χ^2/NDF : 54415.1/57

In: 8.902 ± 0.030 χ^2/NDF : 184103.0/49

Out: 8.629 ± 0.030 χ^2/NDF : 246648.6/55

All: 8.763 ± 0.021 χ^2/NDF : 430792.6/105

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.682 ± 0.057 $\chi^2/\text{NDF}: 3914.9/26$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.685 ± 0.054 $\chi^2/\text{NDF}: 4474.8/30$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

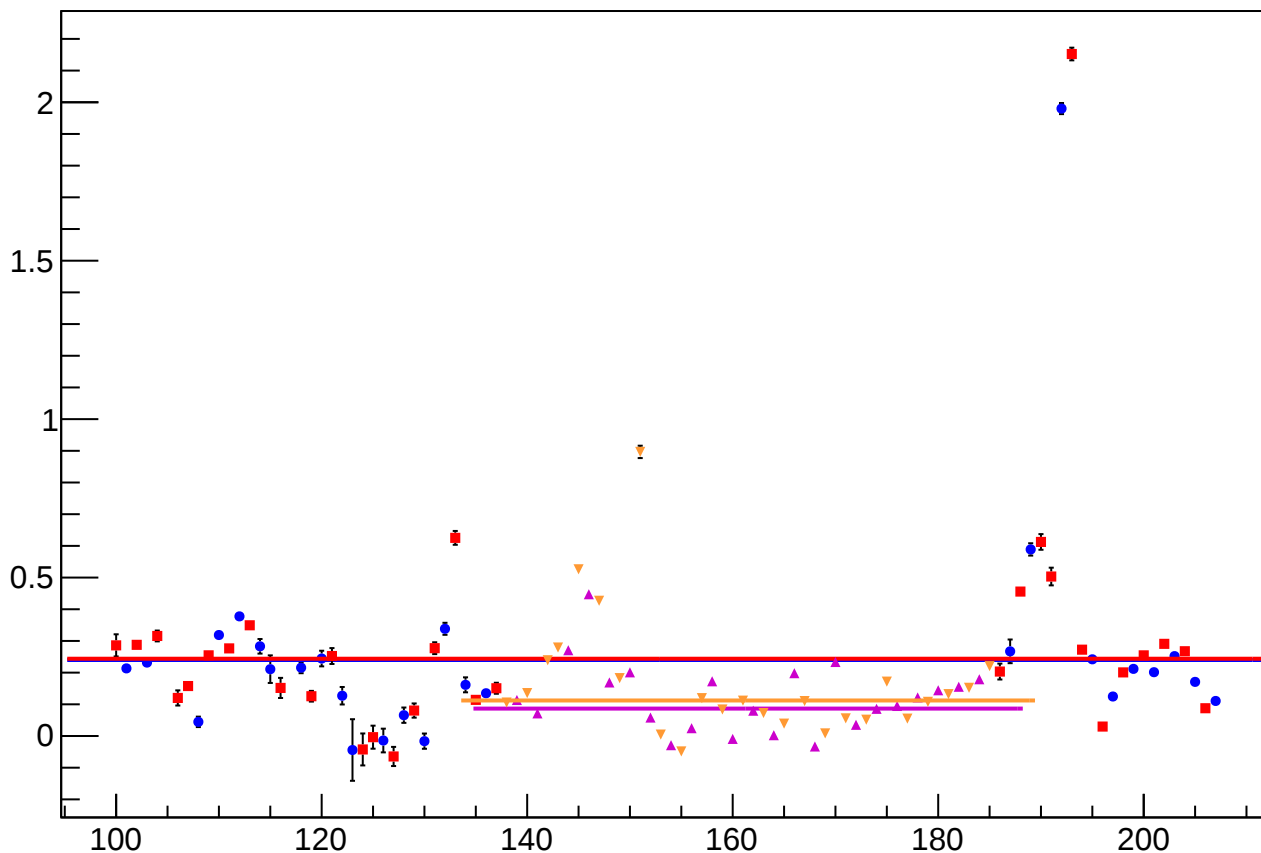
Right: -0.683 ± 0.039 $\chi^2/\text{NDF}: 8389.6/57$

In: -1.010 ± 0.029 $\chi^2/\text{NDF}: 10701.0/49$

Out: -1.135 ± 0.030 $\chi^2/\text{NDF}: 12520.4/55$

All: -1.071 ± 0.021 $\chi^2/\text{NDF}: 23230.4/105$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 ± 0.002 $\chi^2/\text{NDF}: 11378.4/26$

Left Out: 0.112 ± 0.002 $\chi^2/\text{NDF}: 4503.9/24$

Right Out: 0.244 ± 0.002 $\chi^2/\text{NDF}: 11884.9/30$

Left In: 0.087 ± 0.002 $\chi^2/\text{NDF}: 3655.4/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8295.3/47$

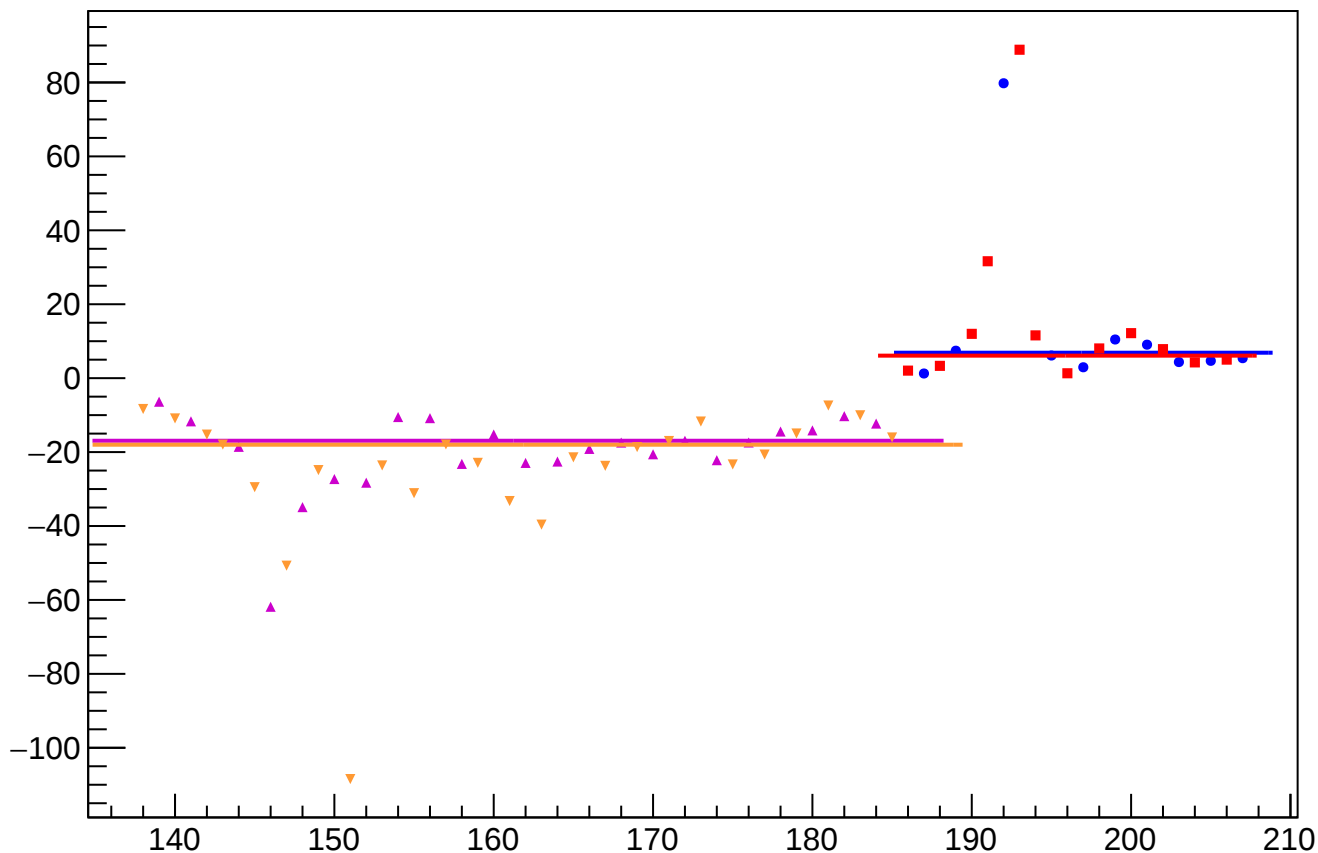
Right: 0.242 ± 0.002 $\chi^2/\text{NDF}: 23264.6/57$

In: 0.127 ± 0.001 $\chi^2/\text{NDF}: 17800.6/49$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18452.7/55$

All: 0.139 ± 0.001 $\chi^2/\text{NDF}: 36437.7/105$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.885 ± 0.064 $\chi^2/\text{NDF}: 25374.5/9$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 6.091 ± 0.060 $\chi^2/\text{NDF}: 26147.5/11$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

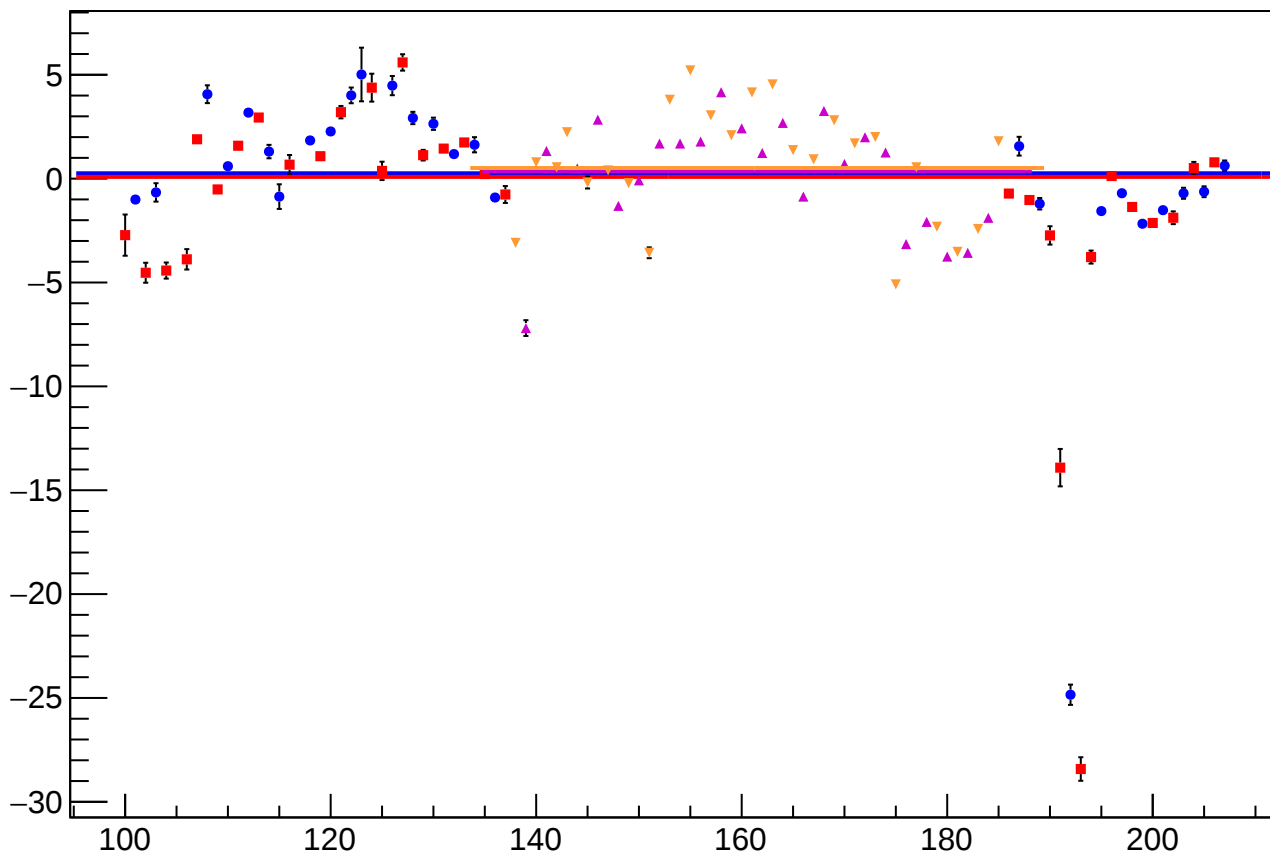
Right: 6.462 ± 0.043 $\chi^2/\text{NDF}: 51605.1/21$

In: -10.688 ± 0.033 $\chi^2/\text{NDF}: 173003.5/32$

Out: -10.861 ± 0.032 $\chi^2/\text{NDF}: 229829.3/36$

All: -10.775 ± 0.023 $\chi^2/\text{NDF}: 402847.0/69$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.258 $\pm$ 0.049 χ^2 /NDF: 3959.7/26

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.085 $\pm$ 0.046 χ^2 /NDF: 4423.7/30

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

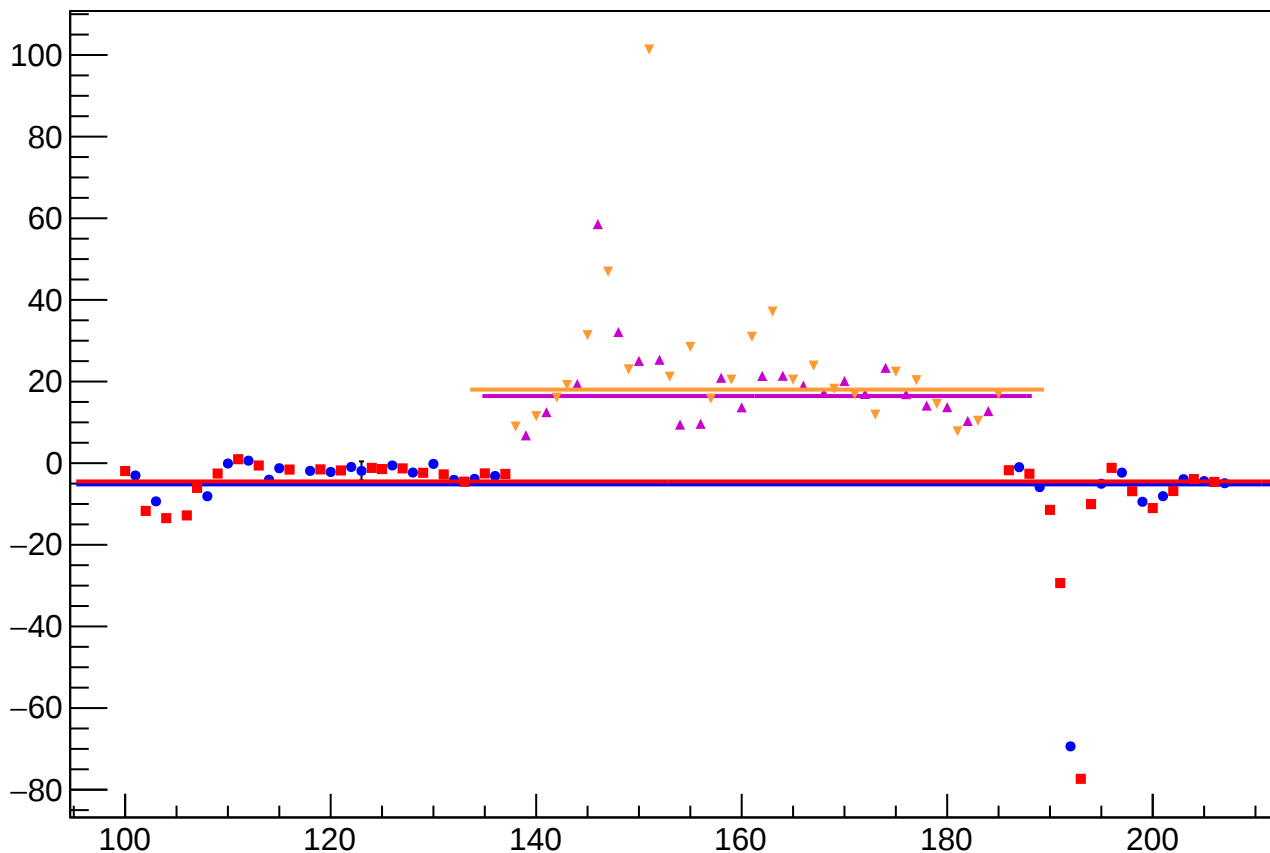
Right: 0.166 $\pm$ 0.033 χ^2 /NDF: 8390.2/57

In: 0.331 $\pm$ 0.026 χ^2 /NDF: 10183.9/49

Out: 0.371 $\pm$ 0.026 χ^2 /NDF: 11552.3/55

All: 0.350 $\pm$ 0.018 χ^2 /NDF: 21737.3/105

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.196+/-0.051 χ^2/NDF : 26974.9/26

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.478+/-0.046 χ^2/NDF : 28118.3/30

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

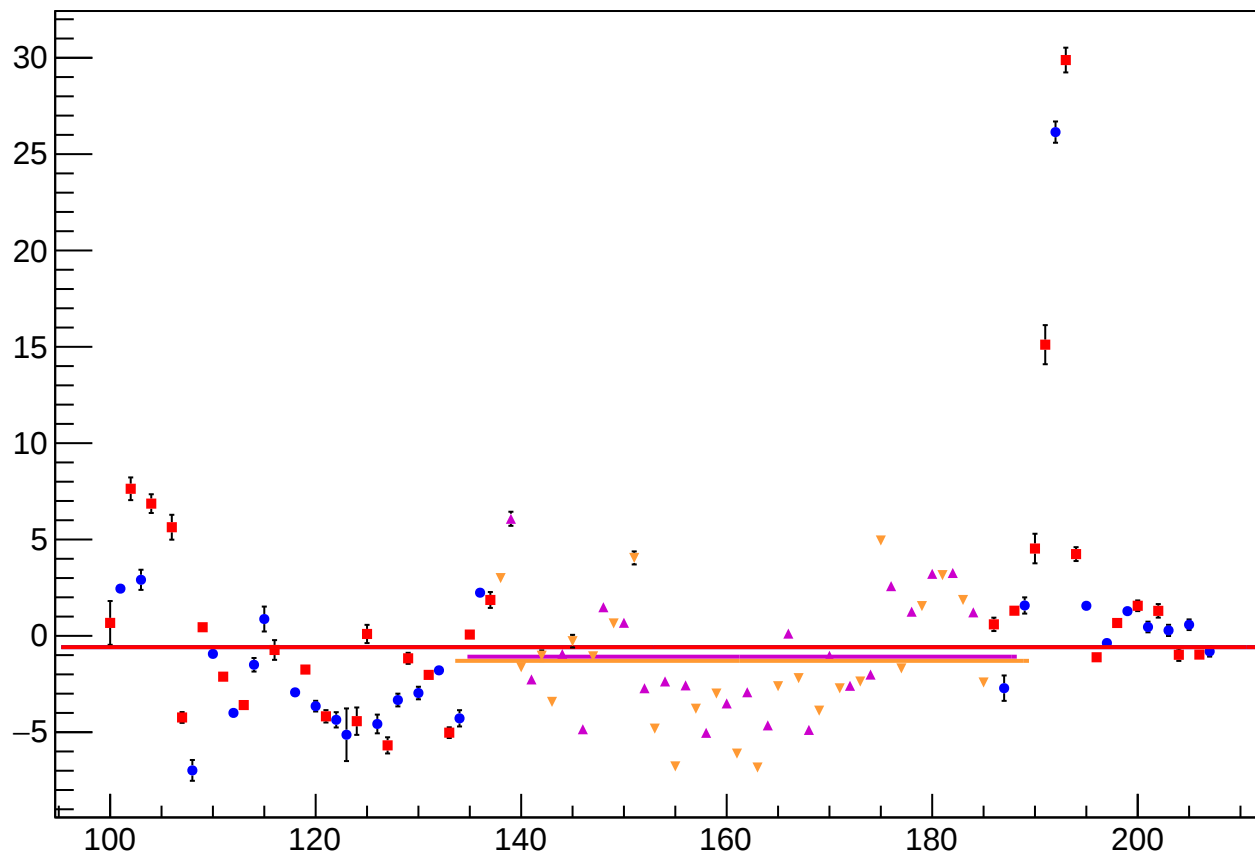
Right: -4.796+/-0.034 χ^2/NDF : 55203.1/57

In: 8.861+/-0.030 χ^2/NDF : 184363.5/49

Out: 8.569+/-0.030 χ^2/NDF : 247081.0/55

All: 8.711+/-0.021 χ^2/NDF : 431492.3/105

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.586 ± 0.056 $\chi^2/\text{NDF}: 4025.0/26$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.587 ± 0.053 $\chi^2/\text{NDF}: 4625.0/30$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

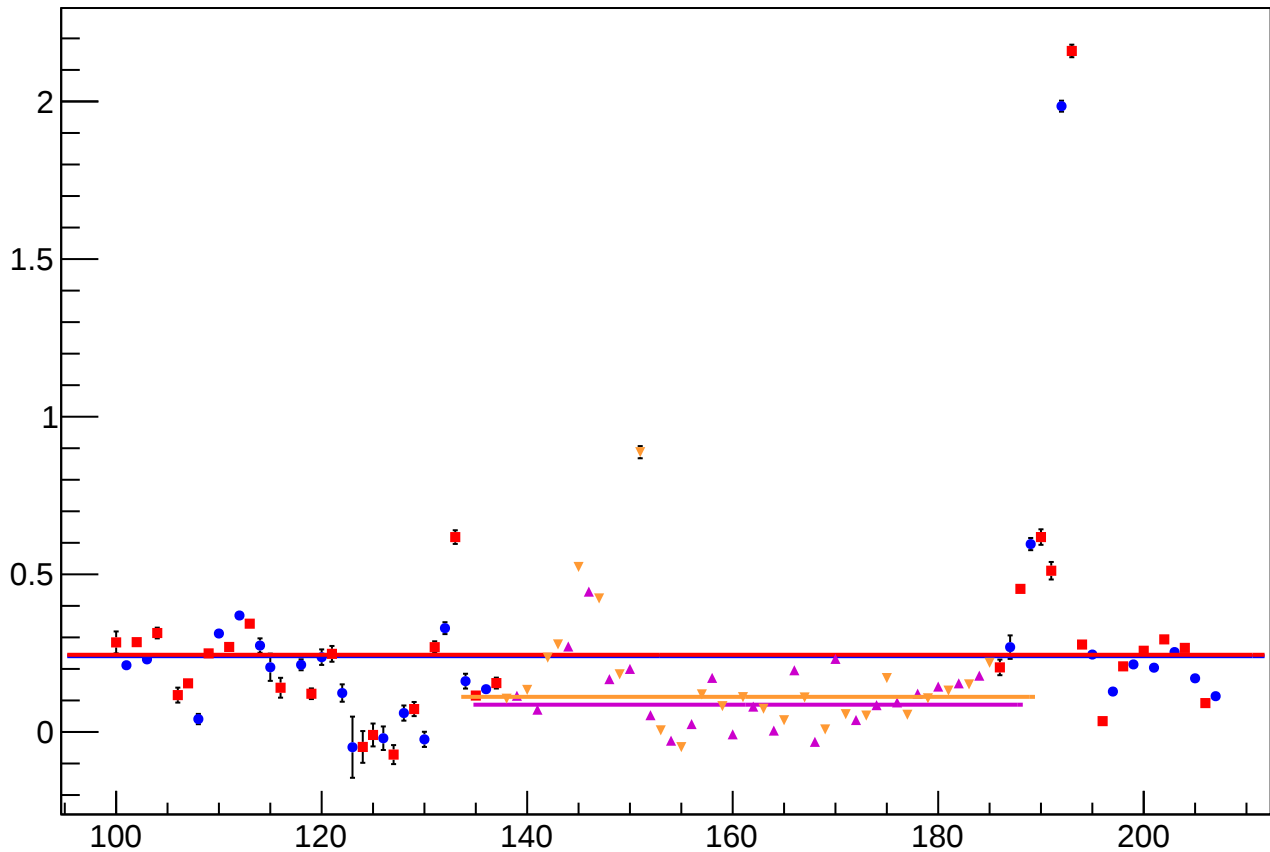
Right: -0.587 ± 0.039 $\chi^2/\text{NDF}: 8649.9/57$

In: -0.950 ± 0.029 $\chi^2/\text{NDF}: 10805.8/49$

Out: -1.077 ± 0.030 $\chi^2/\text{NDF}: 12672.8/55$

All: -1.012 ± 0.021 $\chi^2/\text{NDF}: 23488.1/105$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 ± 0.002 $\chi^2/\text{NDF}: 11501.9/26$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4496.0/24$

Right Out: 0.245 ± 0.002 $\chi^2/\text{NDF}: 12012.5/30$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3625.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8251.9/47$

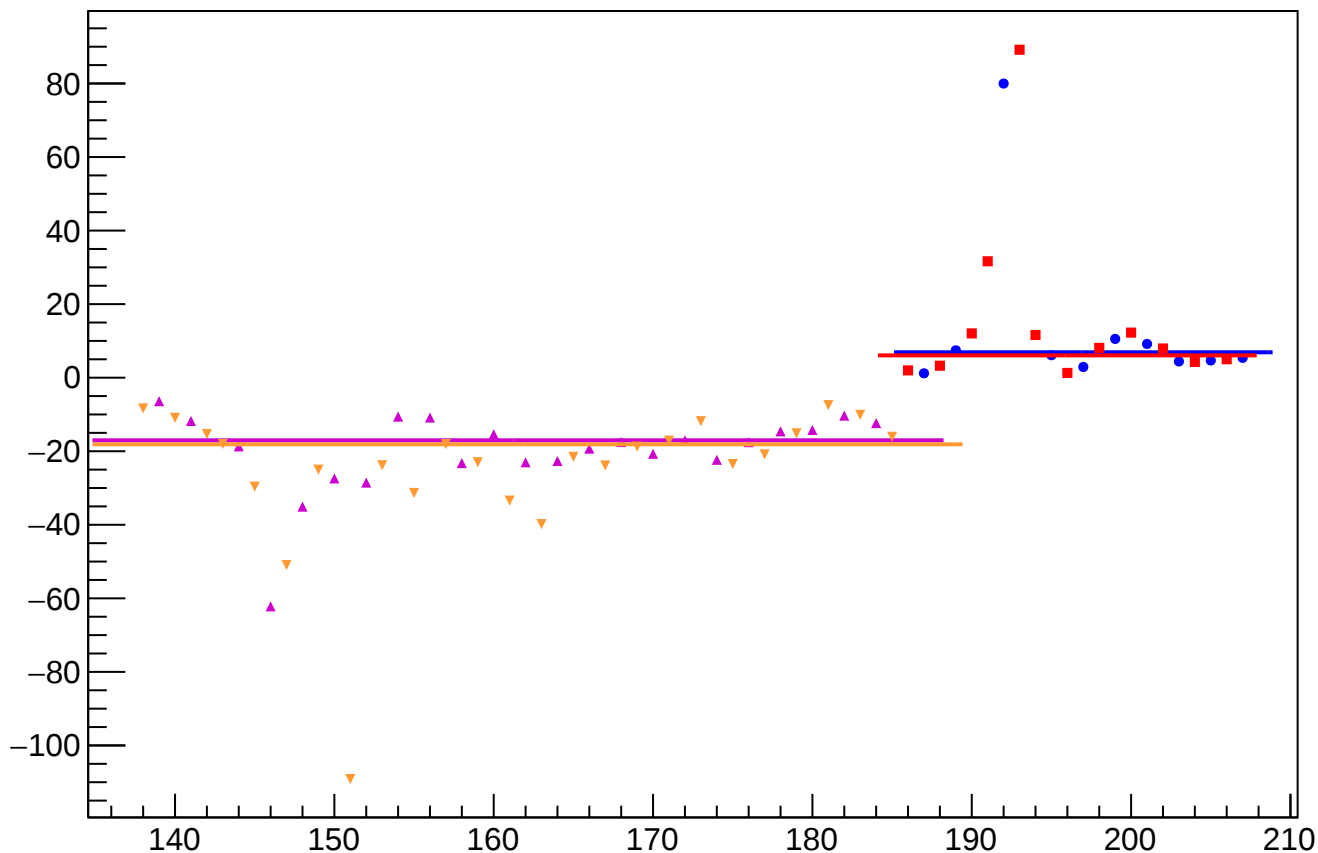
Right: 0.243 ± 0.002 $\chi^2/\text{NDF}: 23516.1/57$

In: 0.127 ± 0.001 $\chi^2/\text{NDF}: 17941.6/49$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18649.7/55$

All: 0.139 ± 0.001 $\chi^2/\text{NDF}: 36773.1/105$

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.905+/-0.064 χ^2/NDF : 25367.2/9

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 6.069+/-0.060 χ^2/NDF : 26181.2/11

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

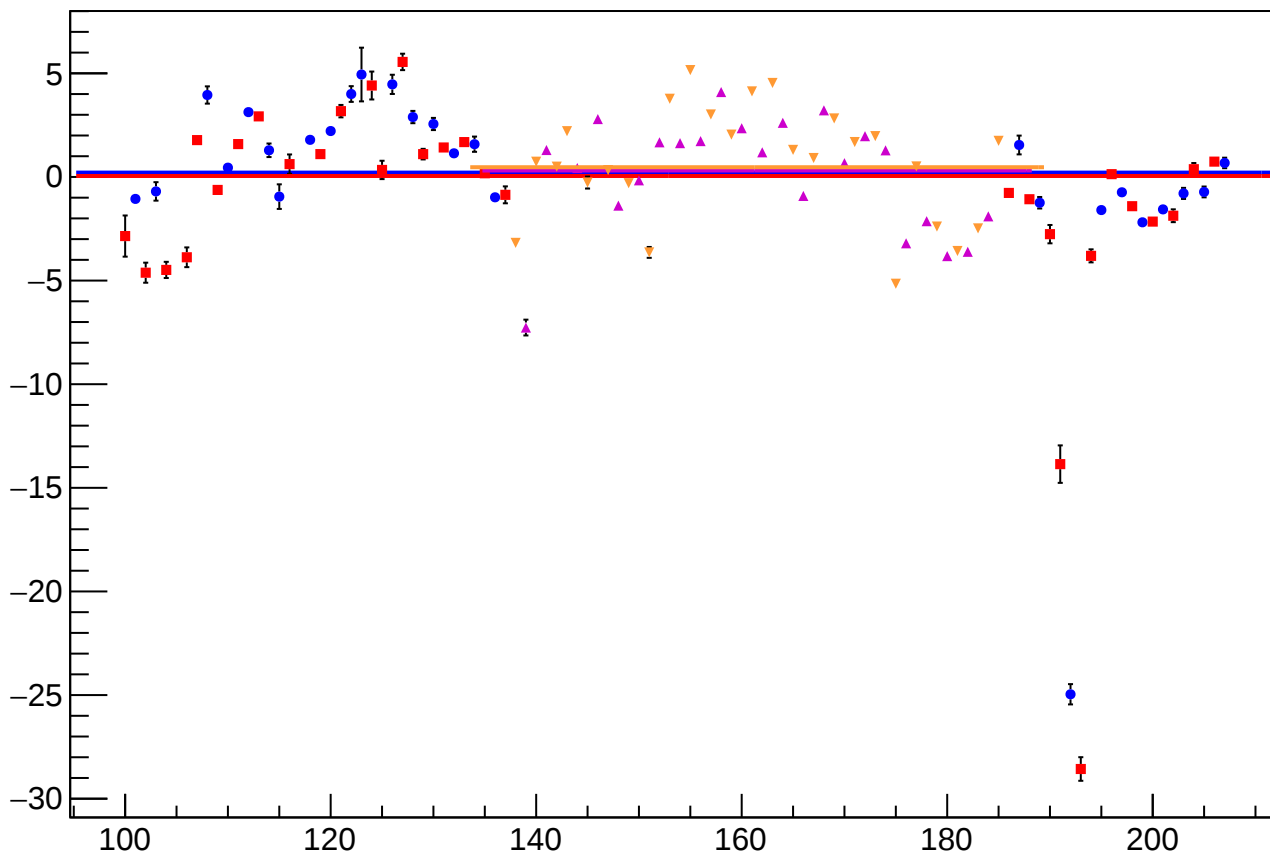
Right: 6.458+/-0.044 χ^2/NDF : 51639.7/21

In: -10.776+/-0.033 χ^2/NDF : 172765.2/32

Out: -10.932+/-0.033 χ^2/NDF : 230007.5/36

All: -10.855+/-0.023 χ^2/NDF : 402784.1/69

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.210 $\pm$ 0.049 χ^2 /NDF: 3947.4/26

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.047 $\pm$ 0.046 χ^2 /NDF: 4416.2/30

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

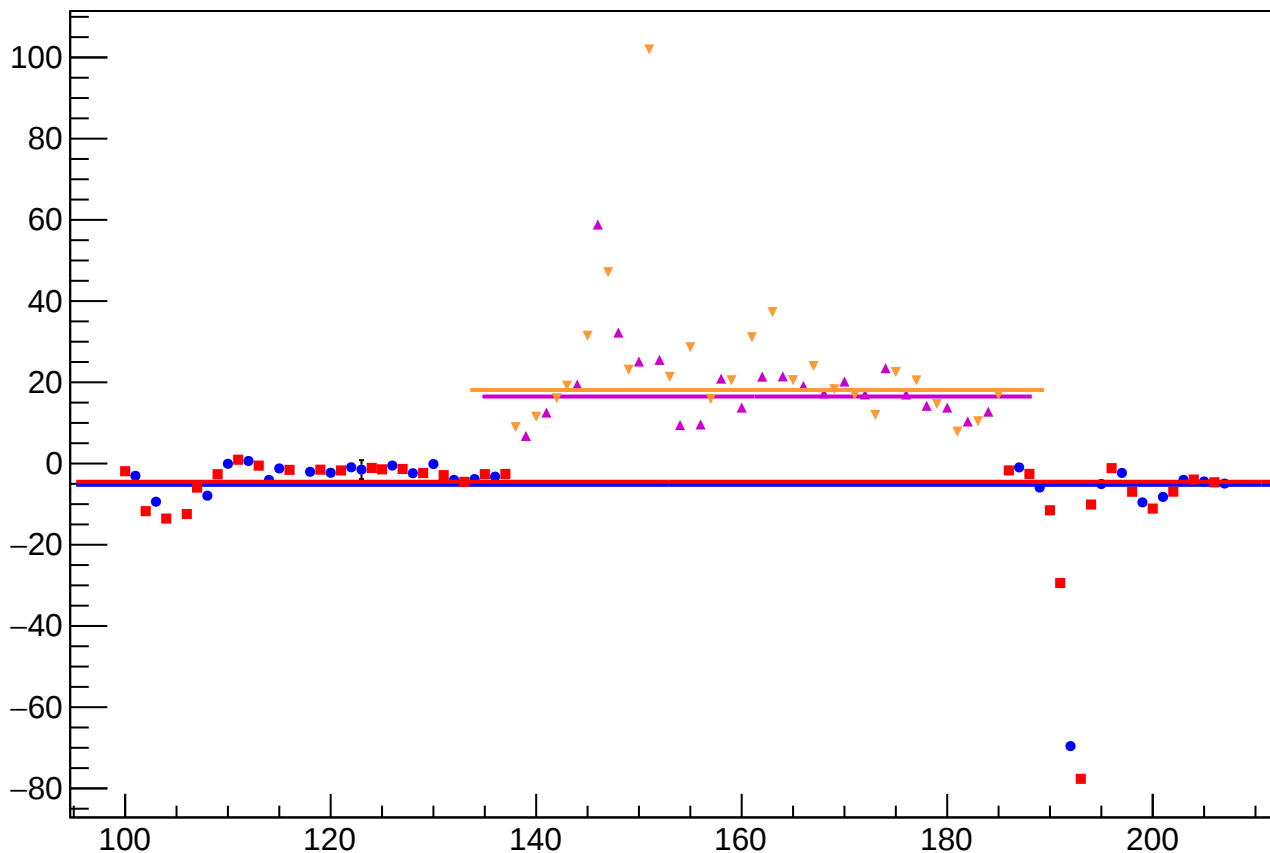
Right: 0.123 $\pm$ 0.033 χ^2 /NDF: 8369.4/57

In: 0.282 $\pm$ 0.026 χ^2 /NDF: 10133.5/49

Out: 0.329 $\pm$ 0.026 χ^2 /NDF: 11565.8/55

All: 0.305 $\pm$ 0.019 χ^2 /NDF: 21700.9/105

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.233+/-0.051 χ^2/NDF : 26973.1/26

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.489+/-0.046 χ^2/NDF : 28135.7/30

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

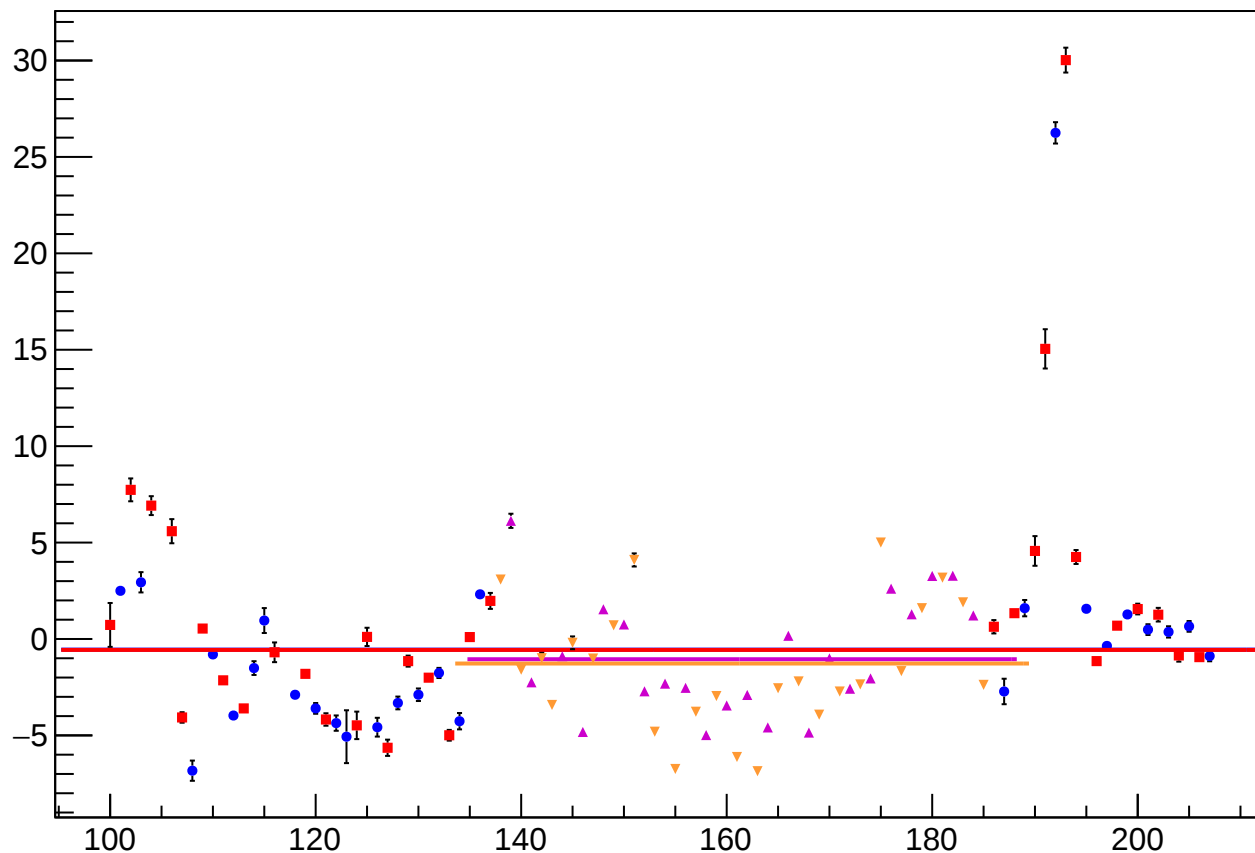
Right: -4.818+/-0.034 χ^2/NDF : 55225.6/57

In: 8.909+/-0.030 χ^2/NDF : 184111.7/49

Out: 8.594+/-0.030 χ^2/NDF : 247253.8/55

All: 8.748+/-0.021 χ^2/NDF : 431420.4/105

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.553 ± 0.057 $\chi^2/\text{NDF}: 4016.7/26$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.567 ± 0.053 $\chi^2/\text{NDF}: 4621.3/30$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

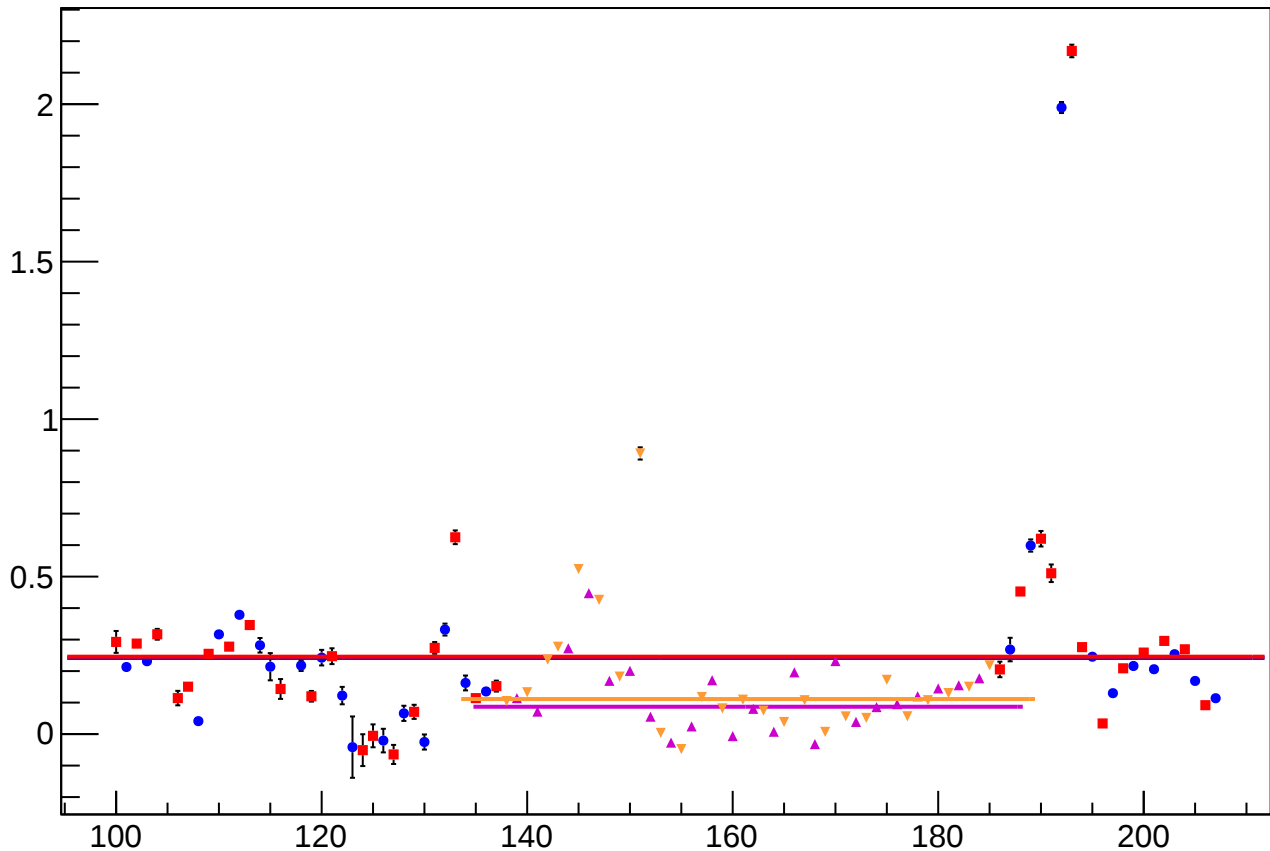
Right: -0.560 ± 0.039 $\chi^2/\text{NDF}: 8638.1/57$

In: -0.918 ± 0.029 $\chi^2/\text{NDF}: 10746.9/49$

Out: -1.054 ± 0.030 $\chi^2/\text{NDF}: 12693.2/55$

All: -0.985 ± 0.021 $\chi^2/\text{NDF}: 23450.7/105$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.242 ± 0.003 $\chi^2/\text{NDF}: 11495.5/26$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.246 ± 0.002 $\chi^2/\text{NDF}: 12028.2/30$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

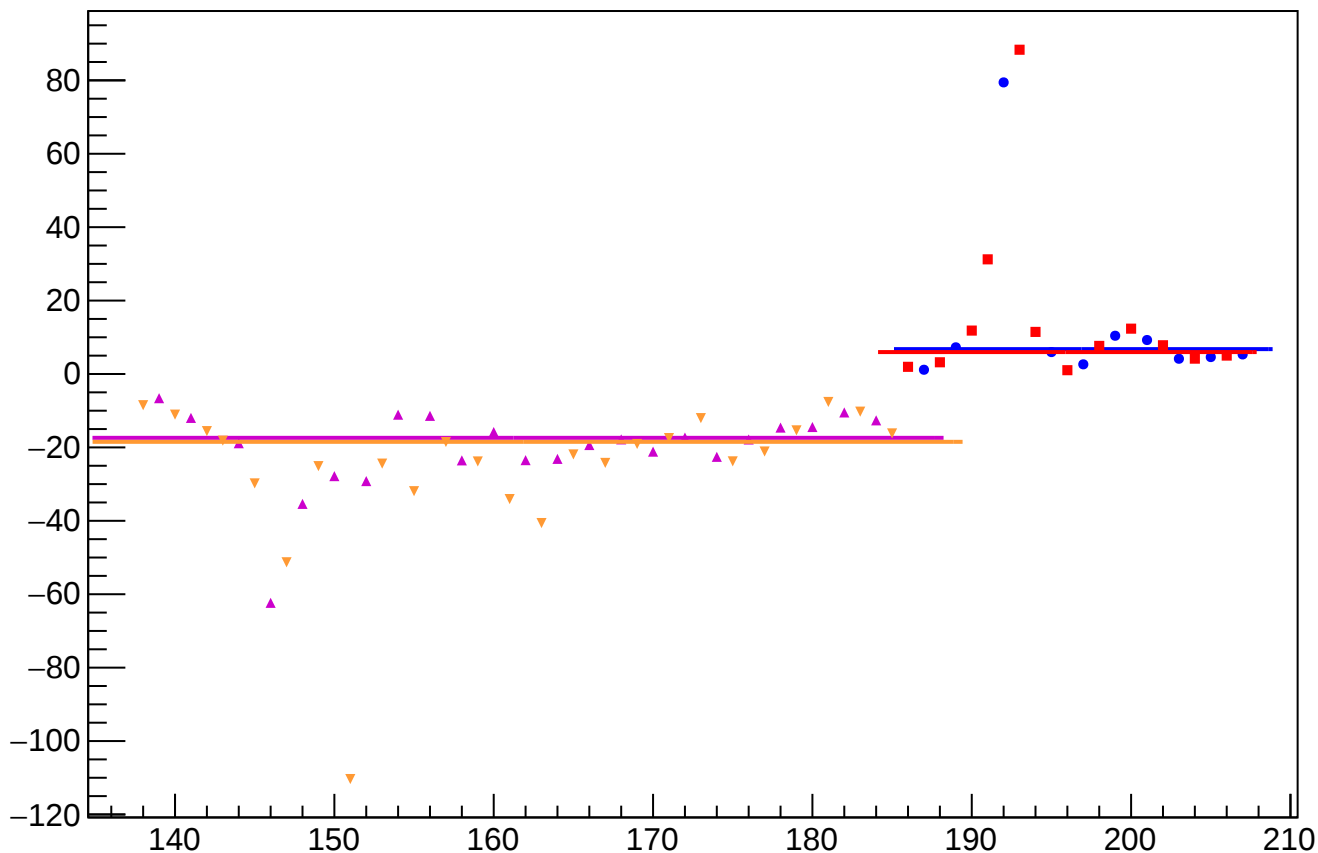
Right: 0.244 ± 0.002 $\chi^2/\text{NDF}: 23525.0/57$

In: 0.128 ± 0.001 $\chi^2/\text{NDF}: 17919.6/49$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18659.8/55$

All: 0.140 ± 0.001 $\chi^2/\text{NDF}: 36754.8/105$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.776 ± 0.064 $\chi^2/\text{NDF}: 25026.6/9$

Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$

Right Out: 5.972 ± 0.060 $\chi^2/\text{NDF}: 25702.4/11$

Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$

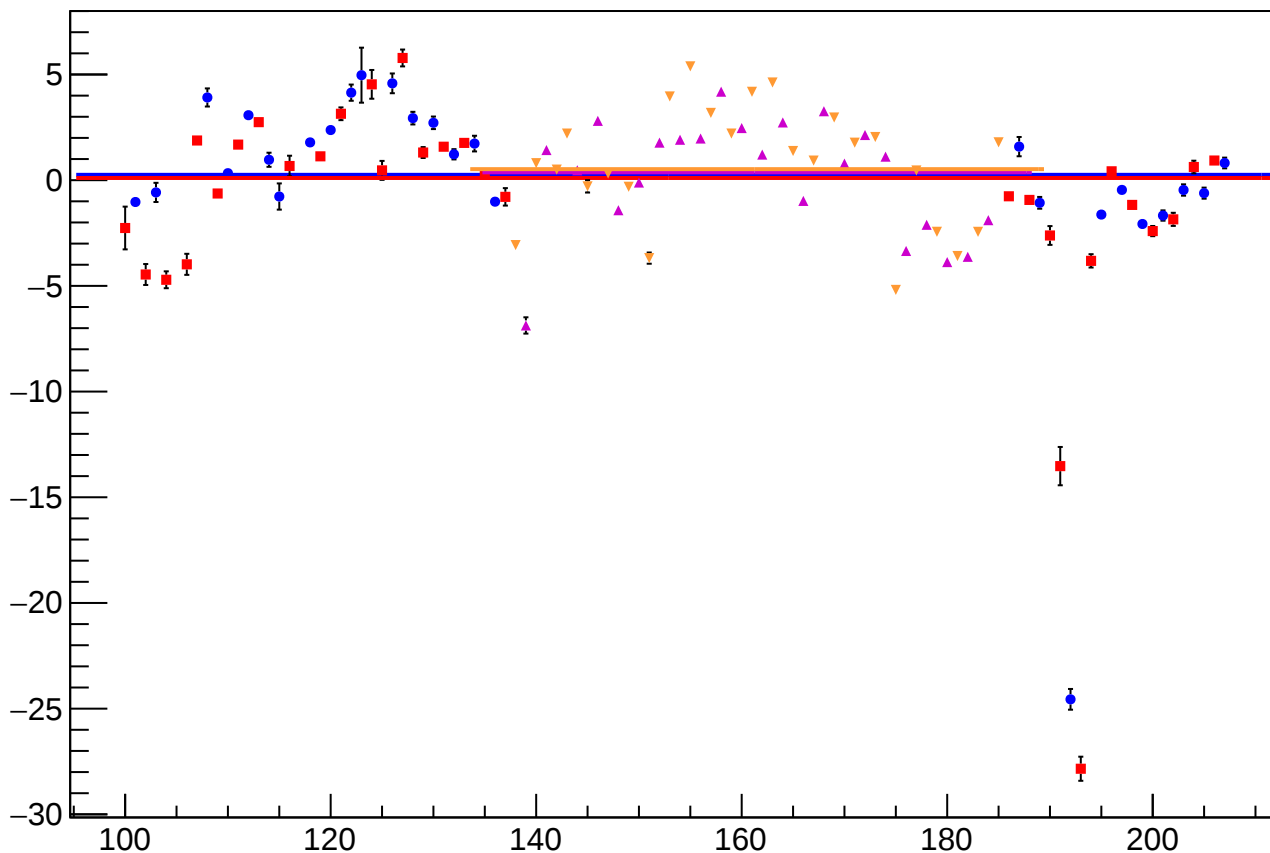
Right: 6.346 ± 0.044 $\chi^2/\text{NDF}: 50812.8/21$

In: -10.899 ± 0.033 $\chi^2/\text{NDF}: 171614.0/32$

Out: -11.020 ± 0.033 $\chi^2/\text{NDF}: 229310.6/36$

All: -10.960 ± 0.023 $\chi^2/\text{NDF}: 400931.2/69$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.253 $\pm$ 0.050 χ^2 /NDF: 3816.8/26

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.104 $\pm$ 0.047 χ^2 /NDF: 4259.9/30

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF: 6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

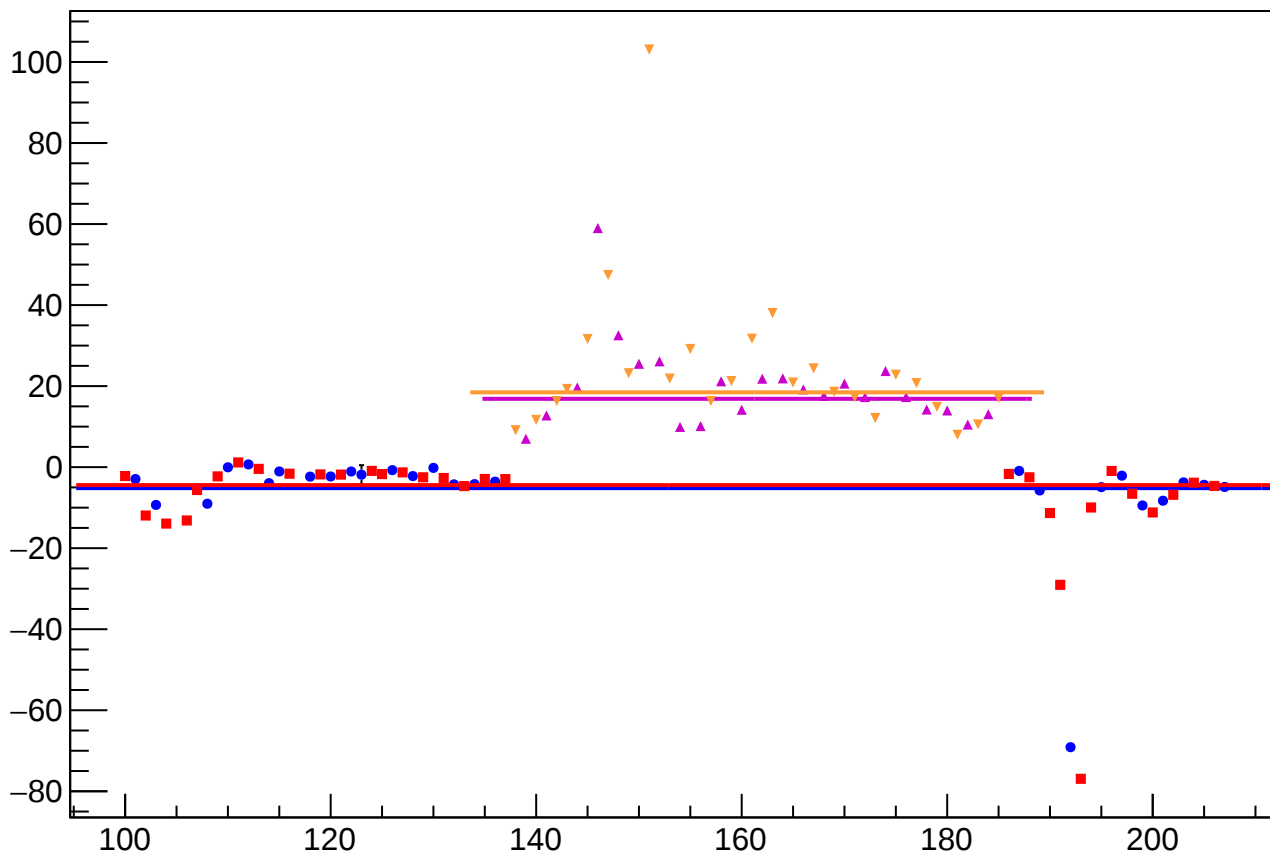
Right: 0.174 $\pm$ 0.034 χ^2 /NDF: 8081.4/57

In: 0.338 $\pm$ 0.027 χ^2 /NDF: 10038.3/49

Out: 0.382 $\pm$ 0.027 χ^2 /NDF: 11368.4/55

All: 0.360 $\pm$ 0.019 χ^2 /NDF: 21408.0/105

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.183 ± 0.052 $\chi^2/\text{NDF}: 26527.9/26$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.429 ± 0.046 $\chi^2/\text{NDF}: 27641.2/30$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

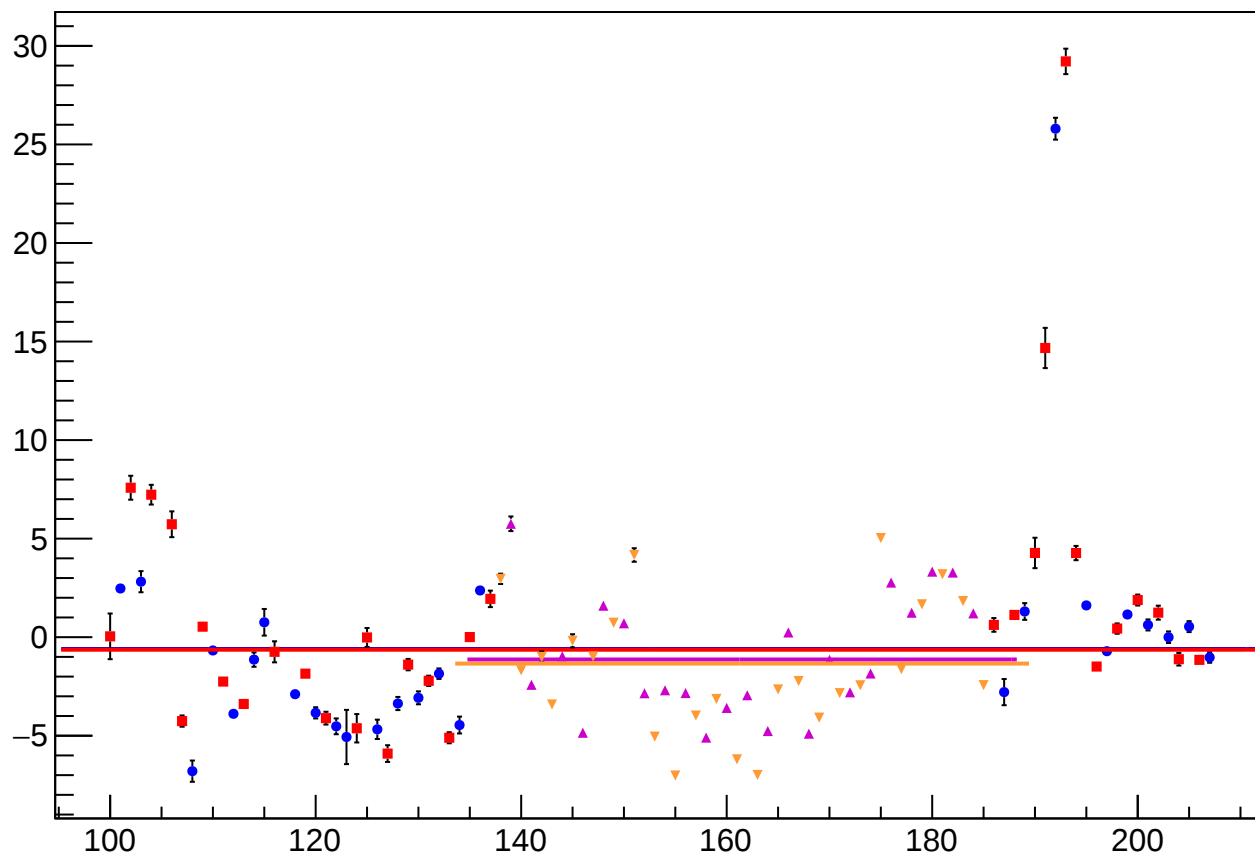
Right: -4.762 ± 0.034 $\chi^2/\text{NDF}: 54287.7/57$

In: 8.999 ± 0.031 $\chi^2/\text{NDF}: 182945.6/49$

Out: 8.658 ± 0.030 $\chi^2/\text{NDF}: 246047.4/55$

All: 8.824 ± 0.022 $\chi^2/\text{NDF}: 429055.4/105$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.600 ± 0.057 χ^2/NDF : 3901.5/26

Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24

Right Out: -0.635 ± 0.054 χ^2/NDF : 4468.5/30

Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47

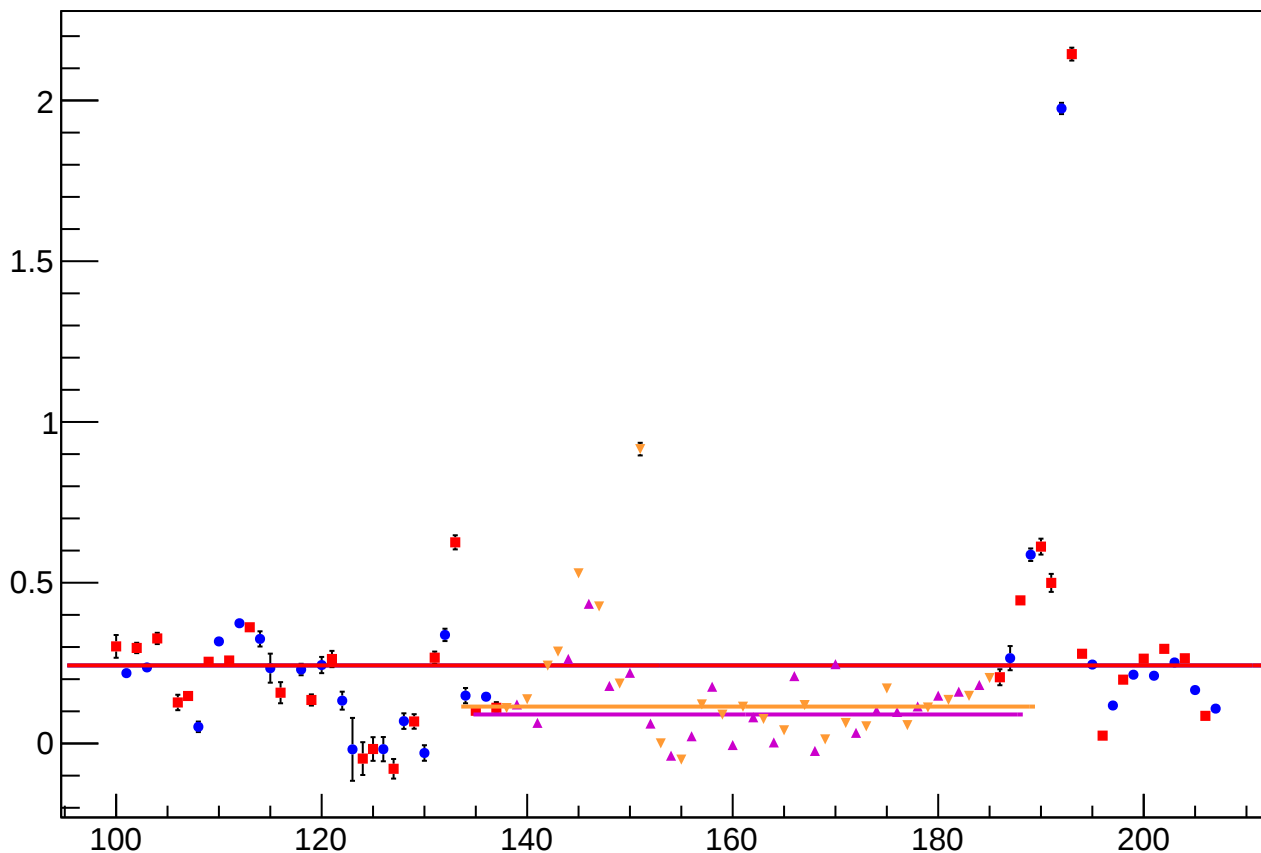
Right: -0.619 ± 0.039 χ^2/NDF : 8370.2/57

In: -0.988 ± 0.030 χ^2/NDF : 10672.8/49

Out: -1.120 ± 0.030 χ^2/NDF : 12491.7/55

All: -1.053 ± 0.021 χ^2/NDF : 23174.1/105

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.243 ± 0.003 $\chi^2/\text{NDF}: 11254.8/26$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.243 ± 0.002 $\chi^2/\text{NDF}: 11890.1/30$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

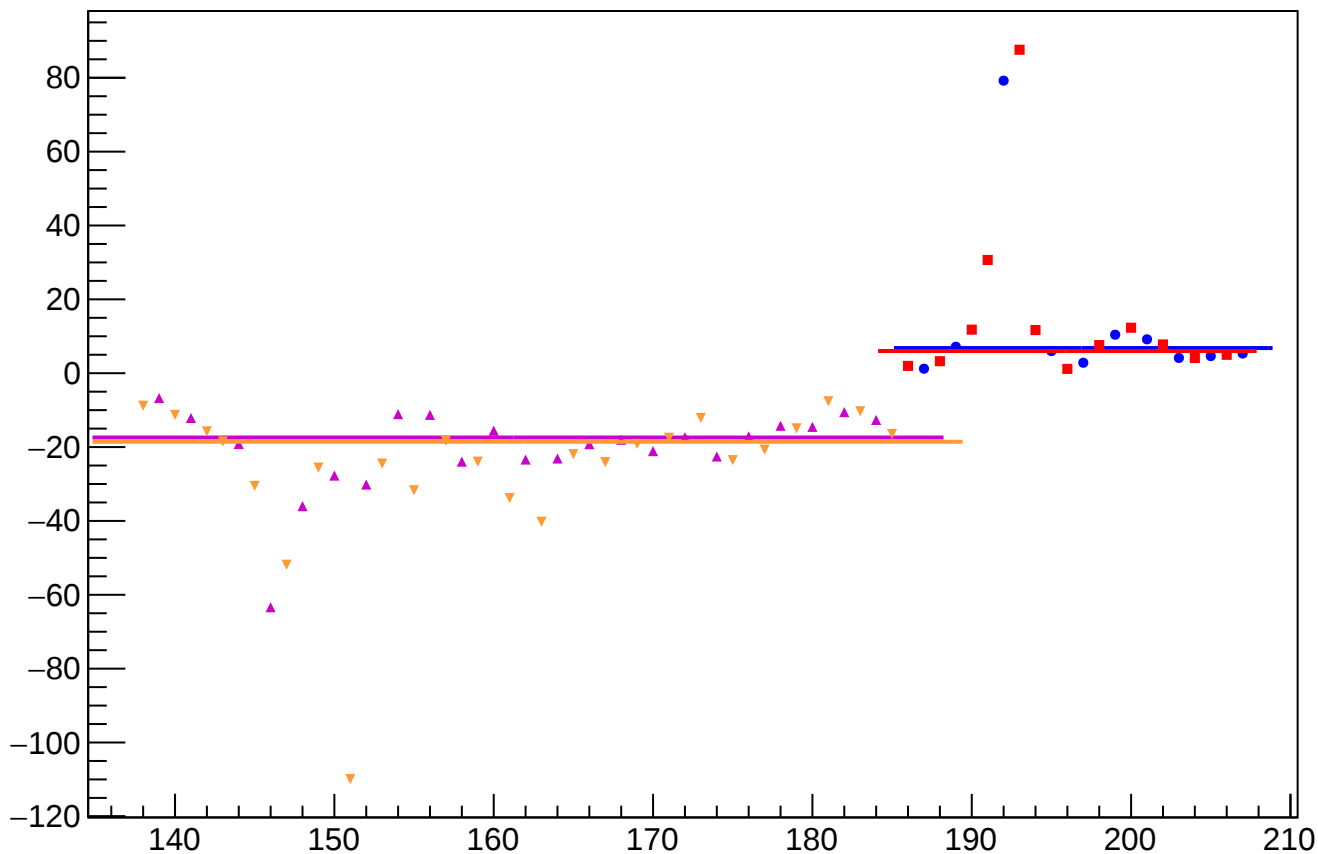
Right: 0.243 ± 0.002 $\chi^2/\text{NDF}: 23144.9/57$

In: 0.131 ± 0.001 $\chi^2/\text{NDF}: 17589.1/49$

Out: 0.154 ± 0.001 $\chi^2/\text{NDF}: 18221.7/55$

All: 0.143 ± 0.001 $\chi^2/\text{NDF}: 35960.2/105$

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.811 ± 0.065 $\chi^2/\text{NDF}: 24539.3/9$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 6.016 ± 0.061 $\chi^2/\text{NDF}: 25052.6/11$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

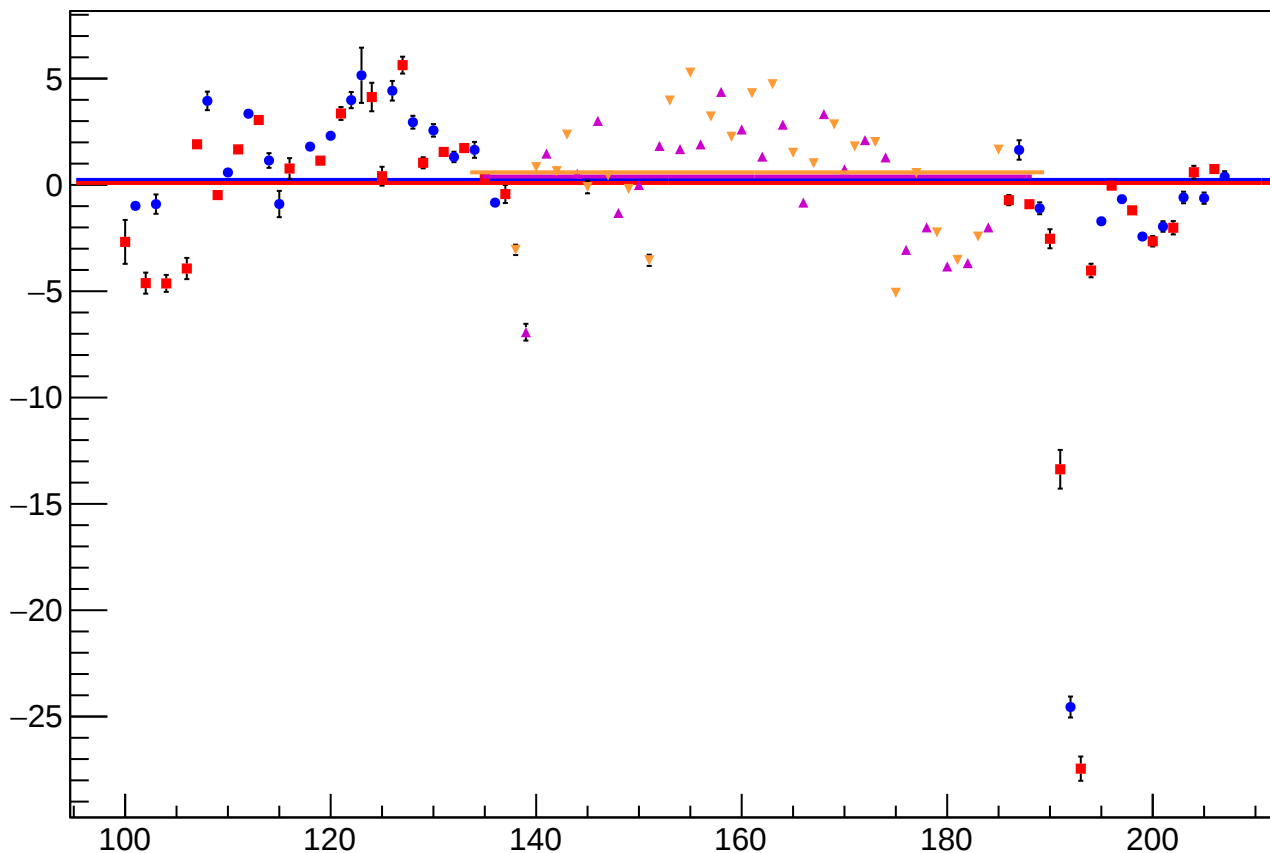
Right: 6.386 ± 0.044 $\chi^2/\text{NDF}: 49671.7/21$

In: -10.933 ± 0.034 $\chi^2/\text{NDF}: 169689.9/32$

Out: -11.095 ± 0.033 $\chi^2/\text{NDF}: 225681.3/36$

All: -11.014 ± 0.024 $\chi^2/\text{NDF}: 395382.8/69$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.234+/-0.050 χ^2/NDF : 3857.5/26

Left Out: 0.591+/-0.033 χ^2/NDF : 6796.5/24

Right Out: 0.091+/-0.047 χ^2/NDF : 4212.5/30

Left In: 0.394+/-0.032 χ^2/NDF : 6059.8/22

Left: 0.488+/-0.023 χ^2/NDF : 12874.6/47

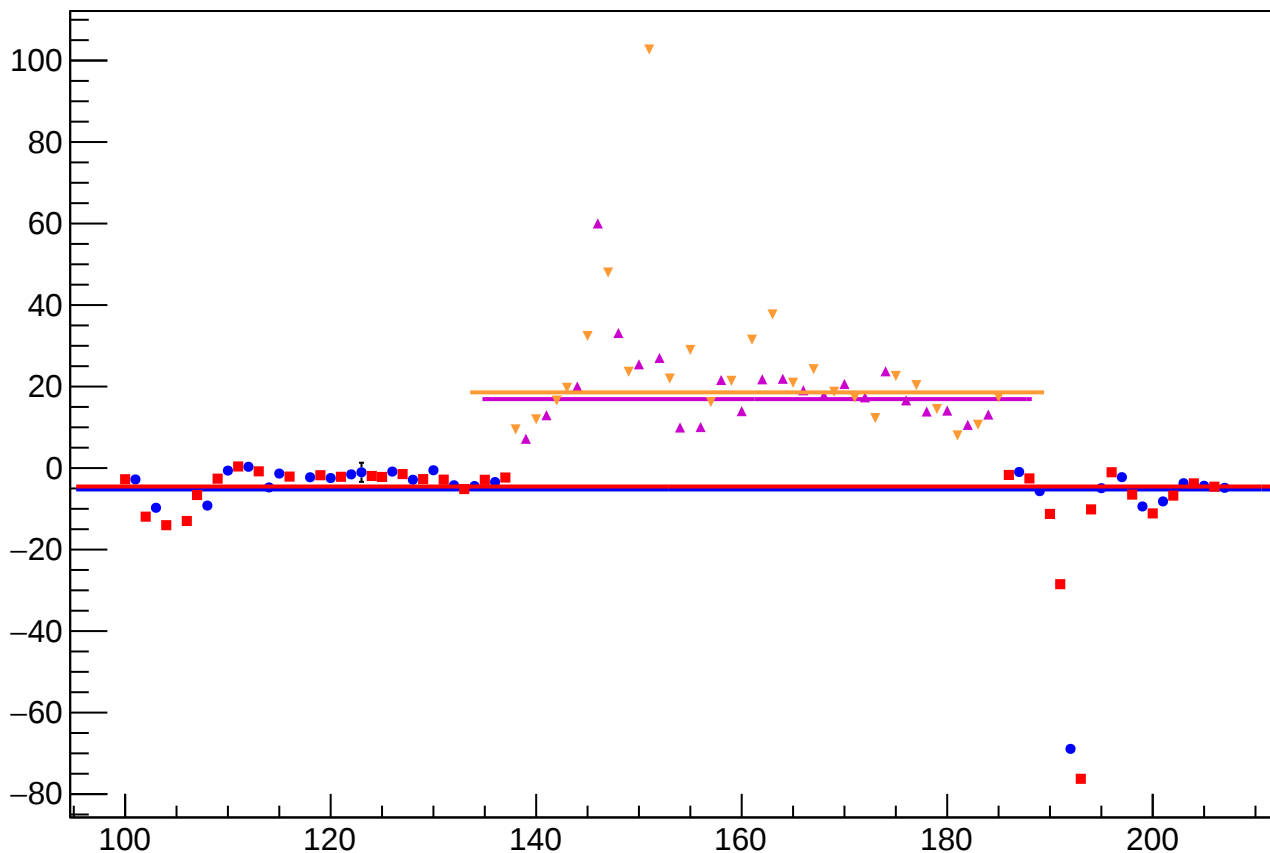
Right: 0.158+/-0.034 χ^2/NDF : 8074.3/57

In: 0.348+/-0.027 χ^2/NDF : 9924.5/49

Out: 0.425+/-0.027 χ^2/NDF : 11083.9/55

All: 0.386+/-0.019 χ^2/NDF : 21012.4/105

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.246 $\pm$ 0.052 χ^2 /NDF: 25841.8/26

Left Out: 18.573 $\pm$ 0.040 χ^2 /NDF: 76029.9/24

Right Out: -4.520 $\pm$ 0.047 χ^2 /NDF: 26744.9/30

Left In: 16.919 $\pm$ 0.039 χ^2 /NDF: 40154.5/22

Left: 17.718 $\pm$ 0.028 χ^2 /NDF: 117057.3/47

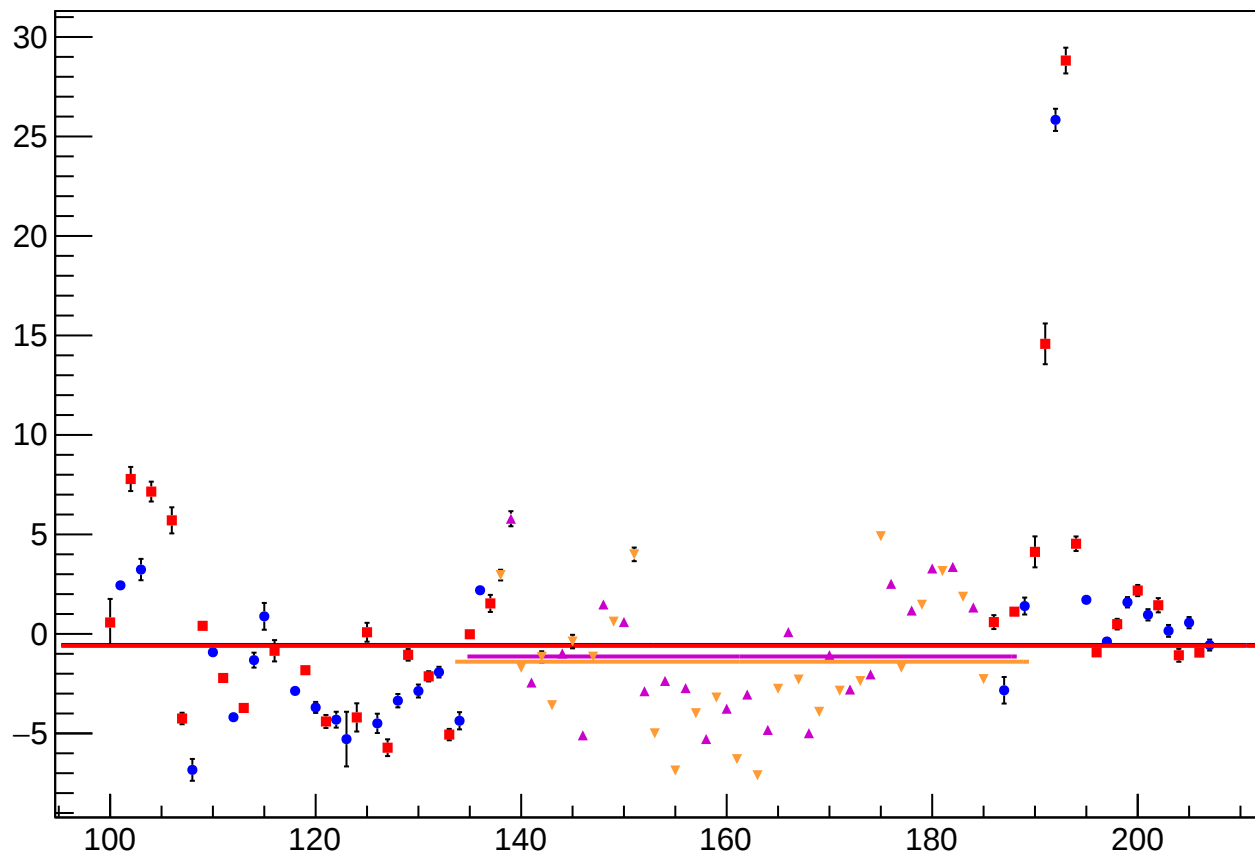
Right: -4.842 $\pm$ 0.035 χ^2 /NDF: 52693.6/57

In: 9.046 $\pm$ 0.031 χ^2 /NDF: 181275.0/49

Out: 8.738 $\pm$ 0.031 χ^2 /NDF: 242900.2/55

All: 8.888 $\pm$ 0.022 χ^2 /NDF: 424225.0/105

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.555 ± 0.058 χ^2/NDF : 3898.7/26

Left Out: -1.396 ± 0.037 χ^2/NDF : 7651.5/24

Right Out: -0.601 ± 0.055 χ^2/NDF : 4407.2/30

Left In: -1.135 ± 0.035 χ^2/NDF : 6597.7/22

Left: -1.259 ± 0.025 χ^2/NDF : 14275.6/47

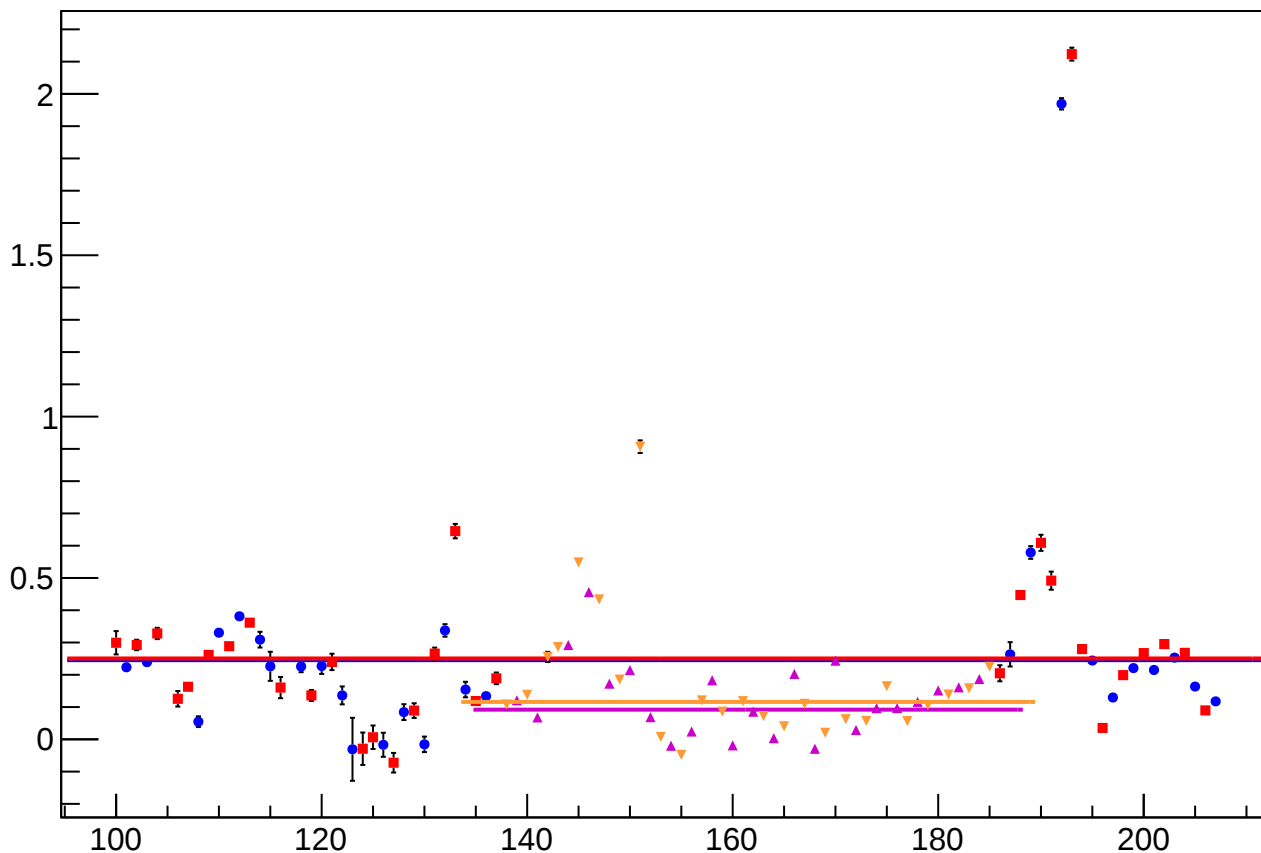
Right: -0.579 ± 0.040 χ^2/NDF : 8306.2/57

In: -0.978 ± 0.030 χ^2/NDF : 10569.3/49

Out: -1.150 ± 0.031 χ^2/NDF : 12202.8/55

All: -1.062 ± 0.021 χ^2/NDF : 22787.9/105

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.245 $\pm$ 0.003 χ^2 /NDF: 10993.5/26

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.251 $\pm$ 0.002 χ^2 /NDF: 11368.6/30

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

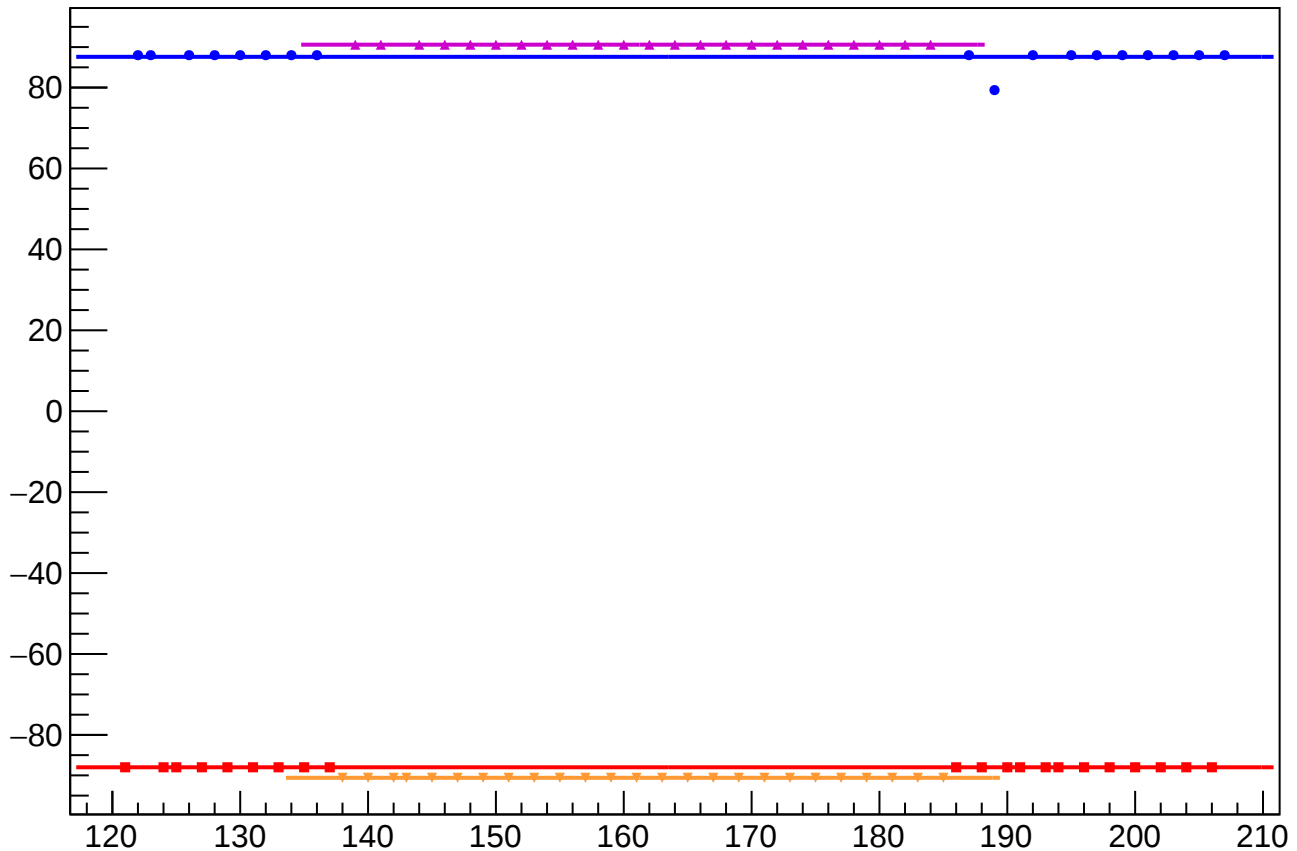
Right: 0.248 $\pm$ 0.002 χ^2 /NDF: 22364.3/57

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17254.5/49

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17872.7/55

All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35286.7/105

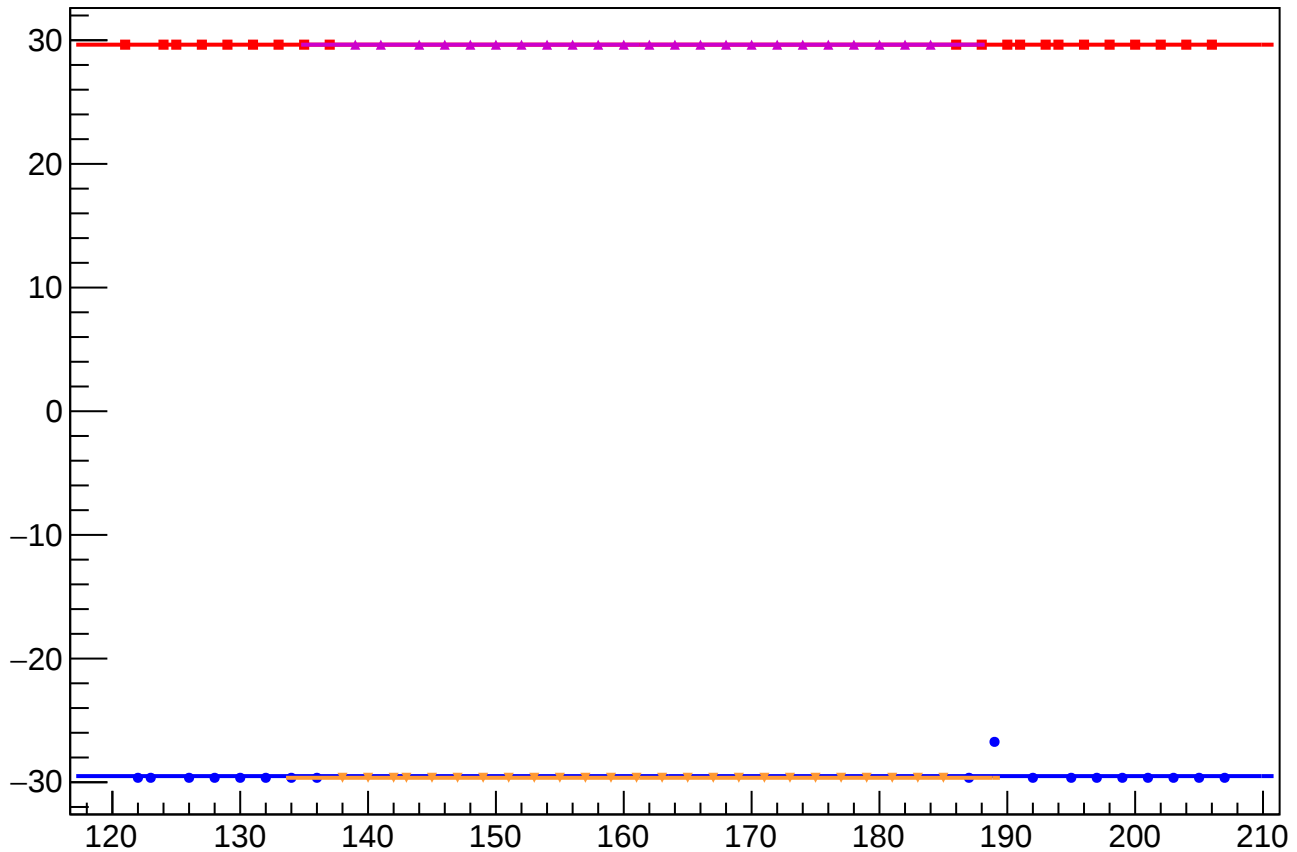
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.594+/-0.000 χ^2/NDF : 3617042799427408413163798250127360.0/17
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 1088501.8/20
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
 Right: -2.728+/-0.000 χ^2/NDF : 1714821112976843
 In: 89.476+/-0.000 χ^2/NDF : 973232038630676304
 Out: -89.625+/-0.000 χ^2/NDF : 4833975205532485
 All: -2.529+/-0.000 χ^2/NDF : 4766956462495

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.504+/-0.000

χ^2/NDF : 410353712156814406830434405056512.0/17

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 0.919+/-0.000 χ^2/NDF : 19454655319708832

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 7.533+/-0.000 χ^2/NDF : 236835617303059106

Right Out: 29.641+/-0.000

χ^2/NDF : 1378979.3/20

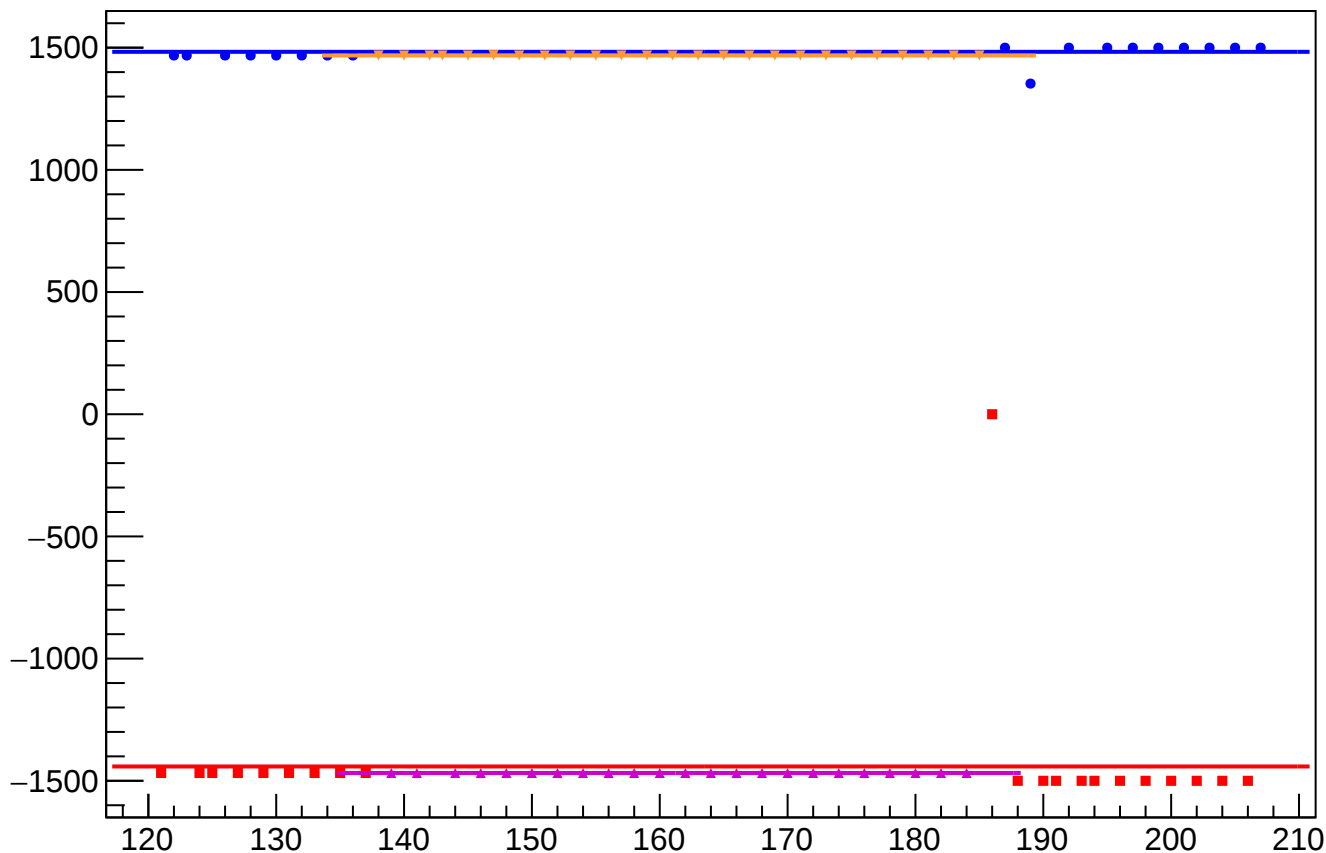
Out: -7.422+/-0.000 χ^2/NDF : 25157335052188228

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

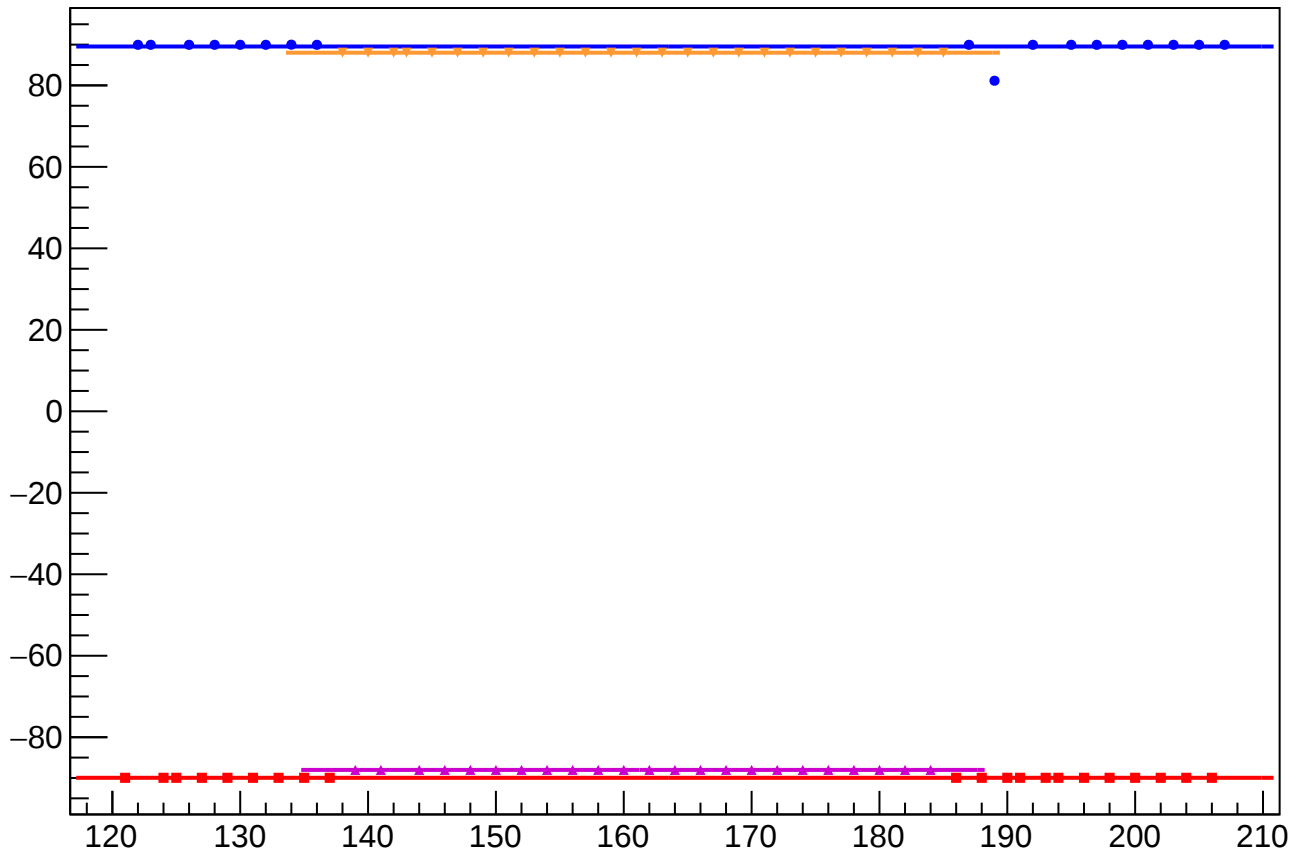
All: -0.150+/-0.000 χ^2/NDF : 5216375411739

psub_pl_pos_mean vs Slug, Sign Corrected



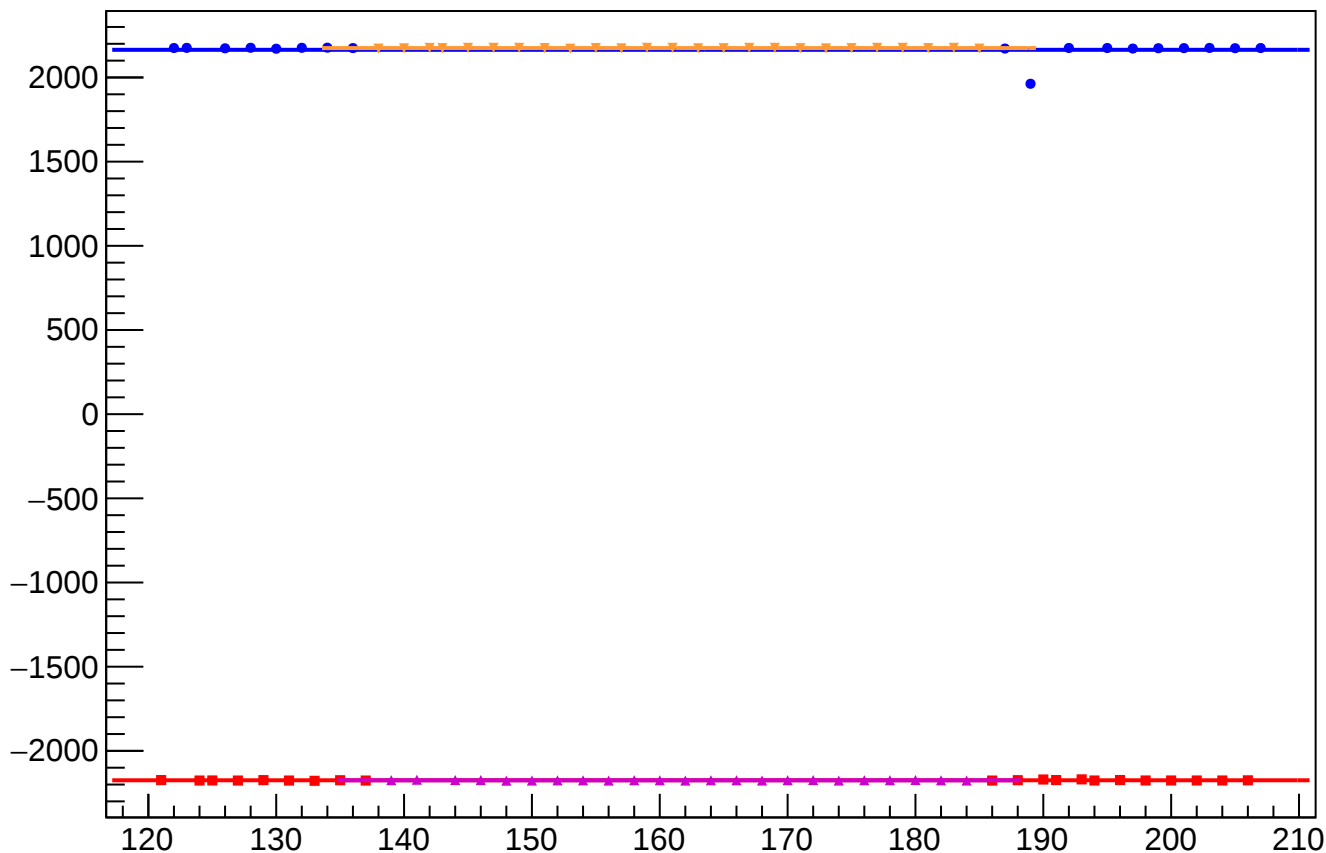
Right In: 1483.021+/-0.000 χ^2/NDF : 1138890274065829598885065321034547200.0/17
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1441.354+/-0.000 χ^2/NDF : 81885902076170497931191322306435612672.0/20
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 16.518+/-0.000 χ^2/NDF : 128567199554

Phi_FG_mean vs Slug, Sign Corrected



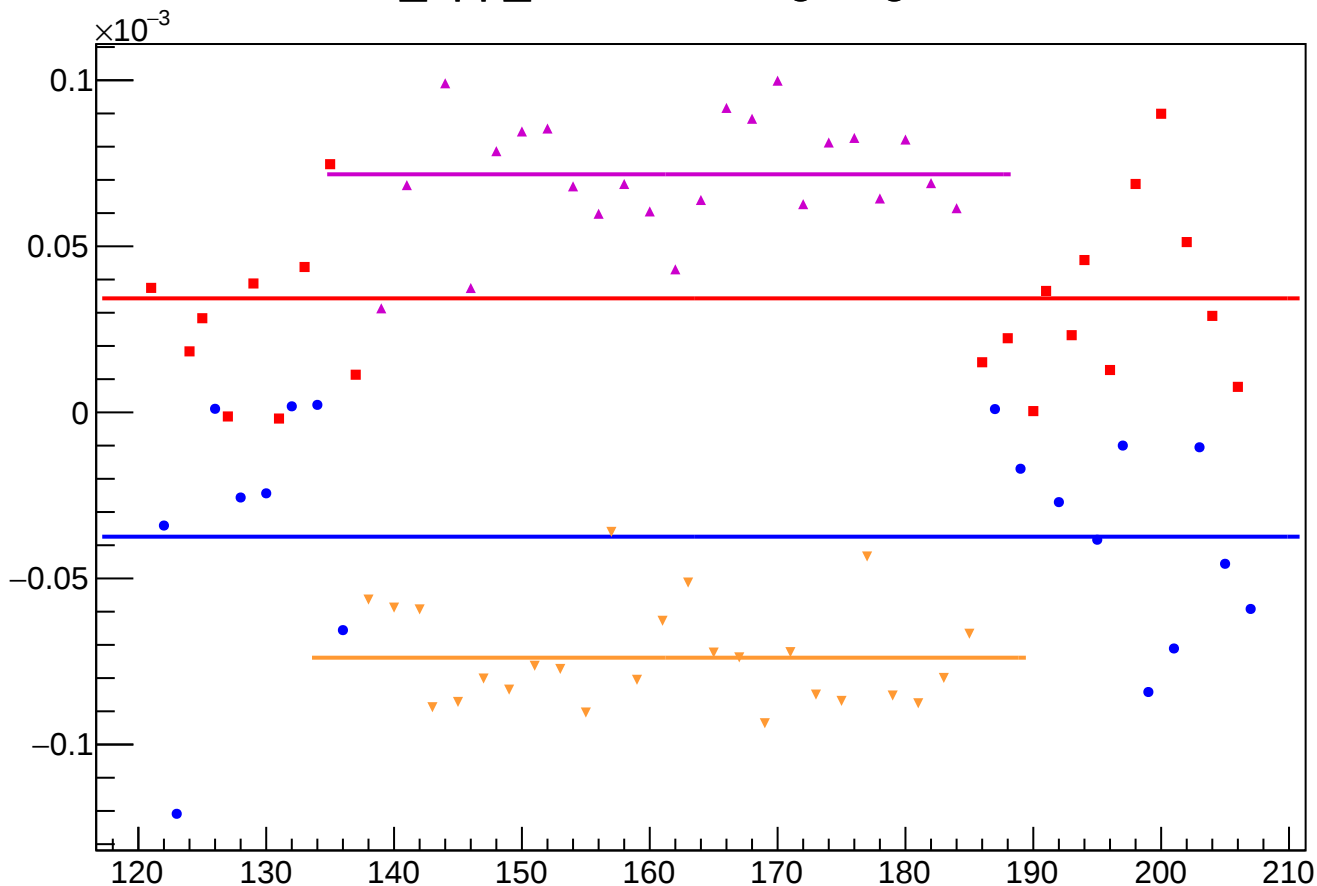
Right In: 89.544+/-0.000	χ^2/NDF : 3780440500660112931804899920838656.0/17	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -2.788+/-0.000	χ^2/NDF : 1792015504181497
Right Out: -89.959+/-0.000	χ^2/NDF : 3265707.4/20	In: -21.649+/-0.000	χ^2/NDF : 21346923787268404
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 21.315+/-0.000	χ^2/NDF : 22676187754756096
		All: 0.422+/-0.000	χ^2/NDF : 46765386577792

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2164.333+/-0.000	χ^2/NDF : 2180196719836151762949100597799813120.0/17	Left: 57.898+/-0.000	χ^2/NDF : 1758341875465085
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -67.566+/-0.000	χ^2/NDF : 104709251195033
Right Out: -2174.712+/-0.000	χ^2/NDF : 4600643160160708104960258634416128.0/20	In: -552.713+/-0.000	χ^2/NDF : 1274600256231732
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 544.511+/-0.000	χ^2/NDF : 1354170968725831
	All: 10.936+/-0.000	χ^2/NDF : 2807626796322	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 772916864031583406915584.0/17

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 777373102512458730307584.0/20

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000 χ^2/NDF : 20702696564433151

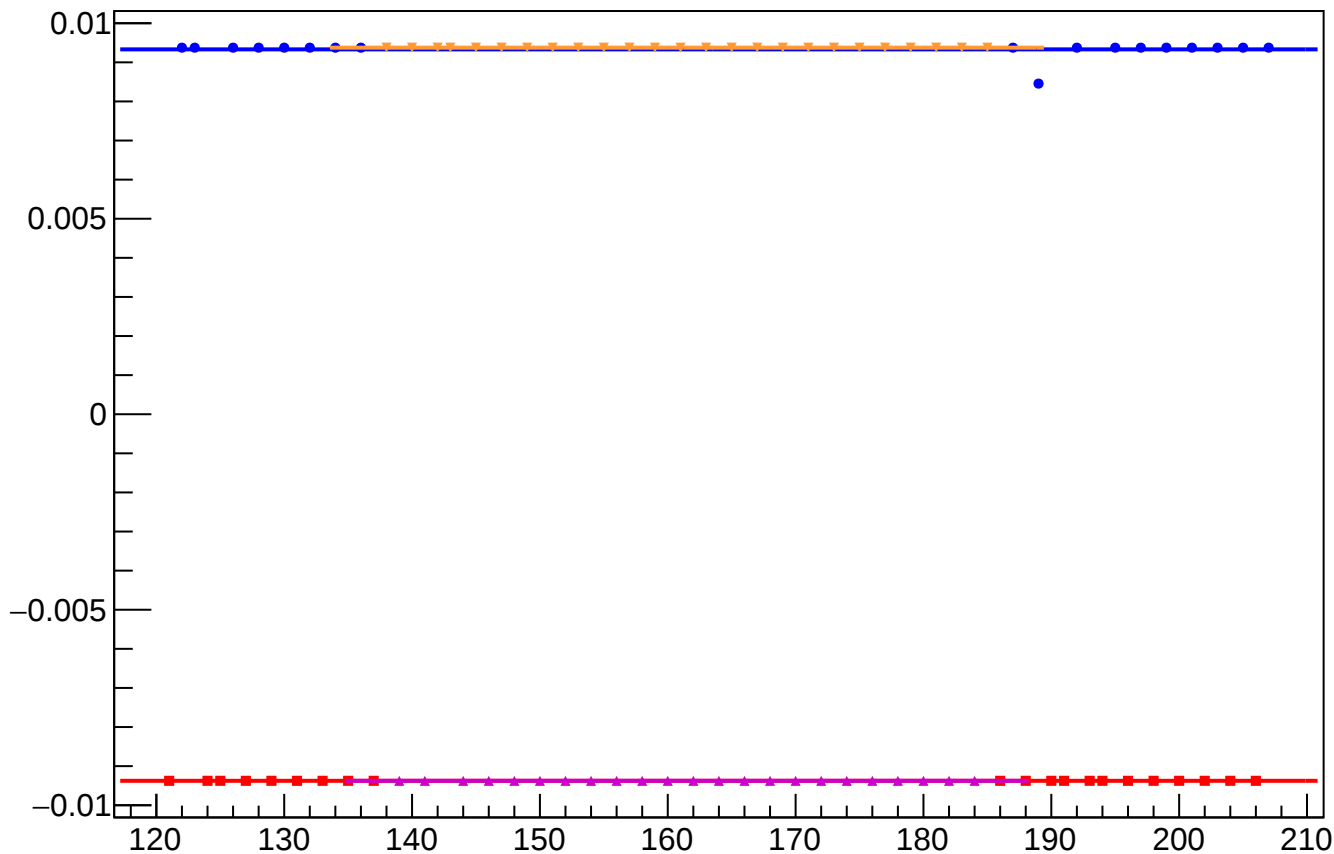
Right: -0.000+/-0.000 χ^2/NDF : 4413063545513476

In: 0.000+/-0.000 χ^2/NDF : 9392878078522079657

Out: -0.000+/-0.000 χ^2/NDF : 96068149332697328

All: -0.000+/-0.000 χ^2/NDF : 2512454038600

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41051016556019995350401024.0/17

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1946207269390652

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.002+/-0.000

χ^2/NDF : 236925914374274783

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

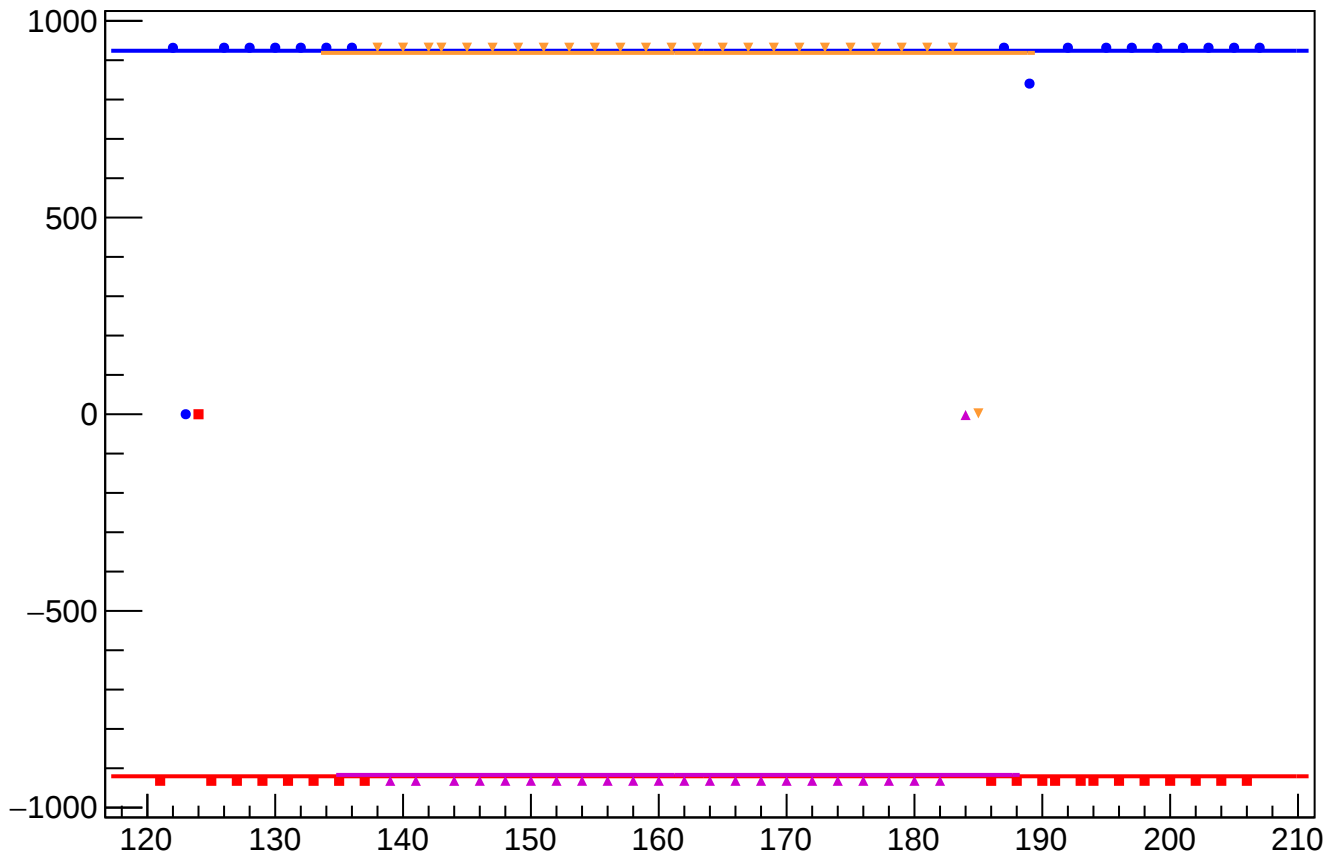
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

χ^2/NDF : 52183642317802

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 924.034+/-0.000

χ^2/NDF : 3832769659292402797256436662411460608.0/17

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -920.409+/-0.000

χ^2/NDF : 12006123041554225209656173023262146560.0/20

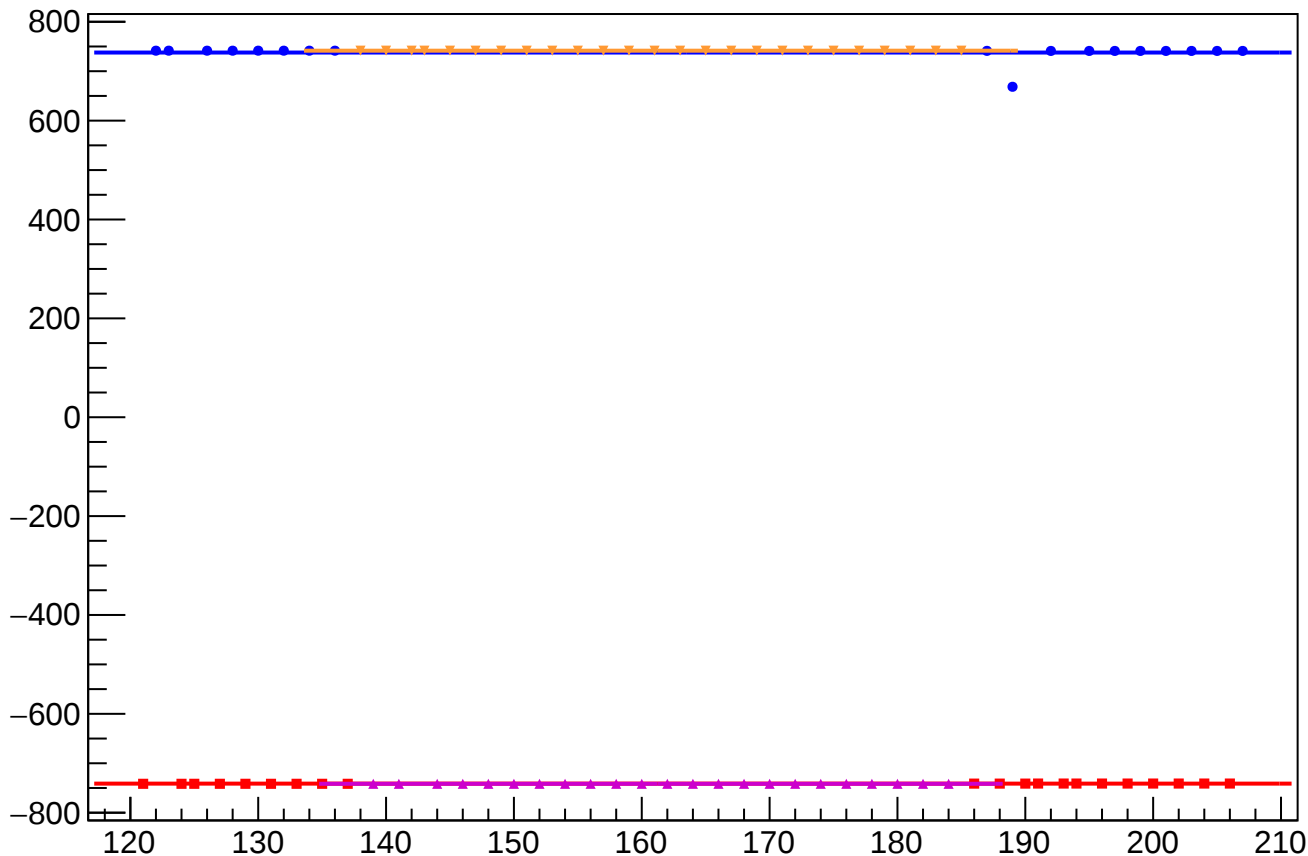
Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

All: 6.581+/-0.000

χ^2/NDF : 50905897094795

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.764+/-0.000 χ^2/NDF : 256835781063587916776337803281694720.0/17

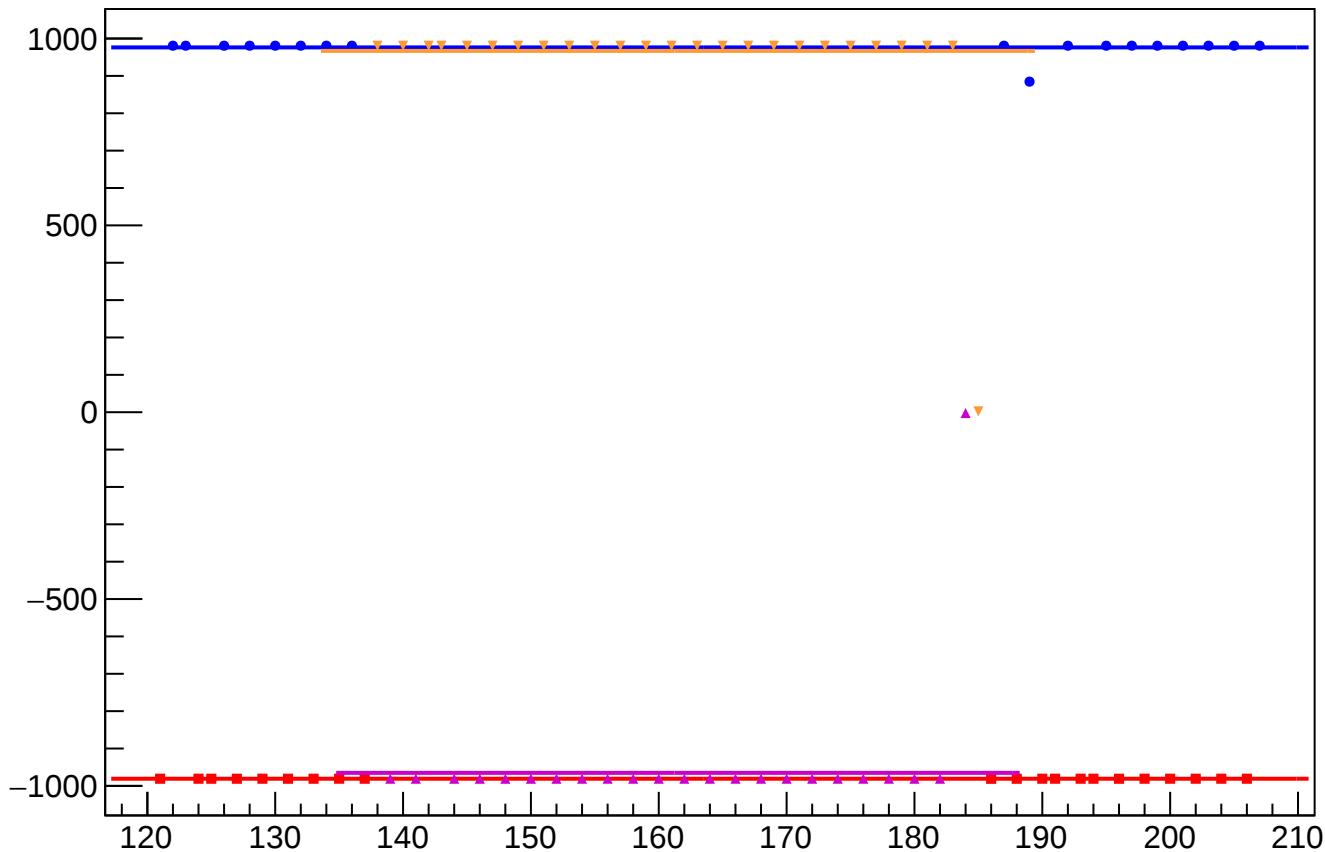
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.185+/-0.000 χ^2/NDF : 54134309969828496423833401556992.0/20

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: 3.746+/-0.000 χ^2/NDF : 32635262623448

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 976.278 +/- 0.000

χ^2/NDF : 449481559895361646320530935181737984.0/17

Left Out: 966.936 +/- 0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.823 +/- 0.000

χ^2/NDF : 3267623981370471692182401056768.0/20

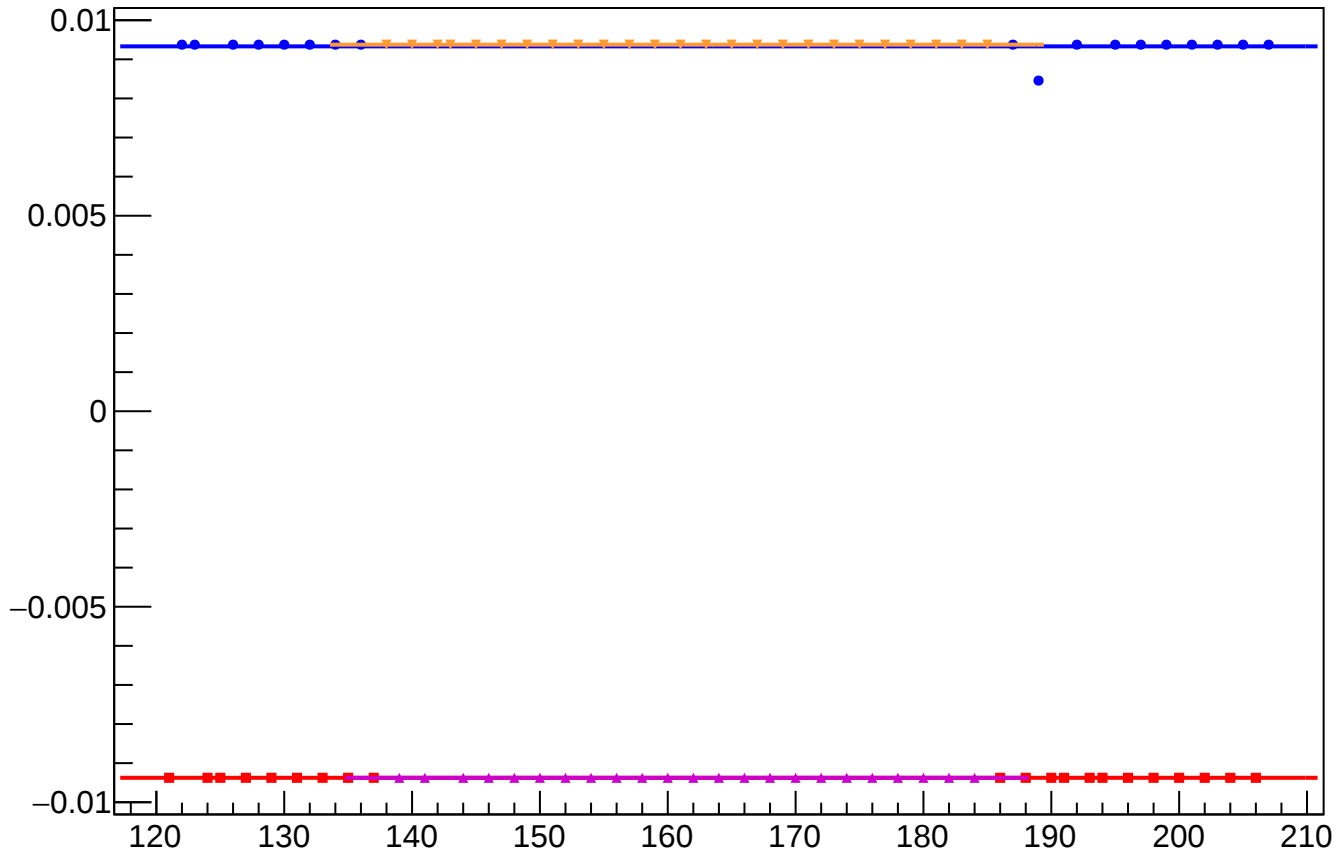
Left In: -965.102 +/- 0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 5.274 +/- 0.000

χ^2/NDF : 56575161393547

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41051016556019995350401024.0/17

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1946207269390652

In: -0.002+/-0.000

χ^2/NDF : 236925914374274783

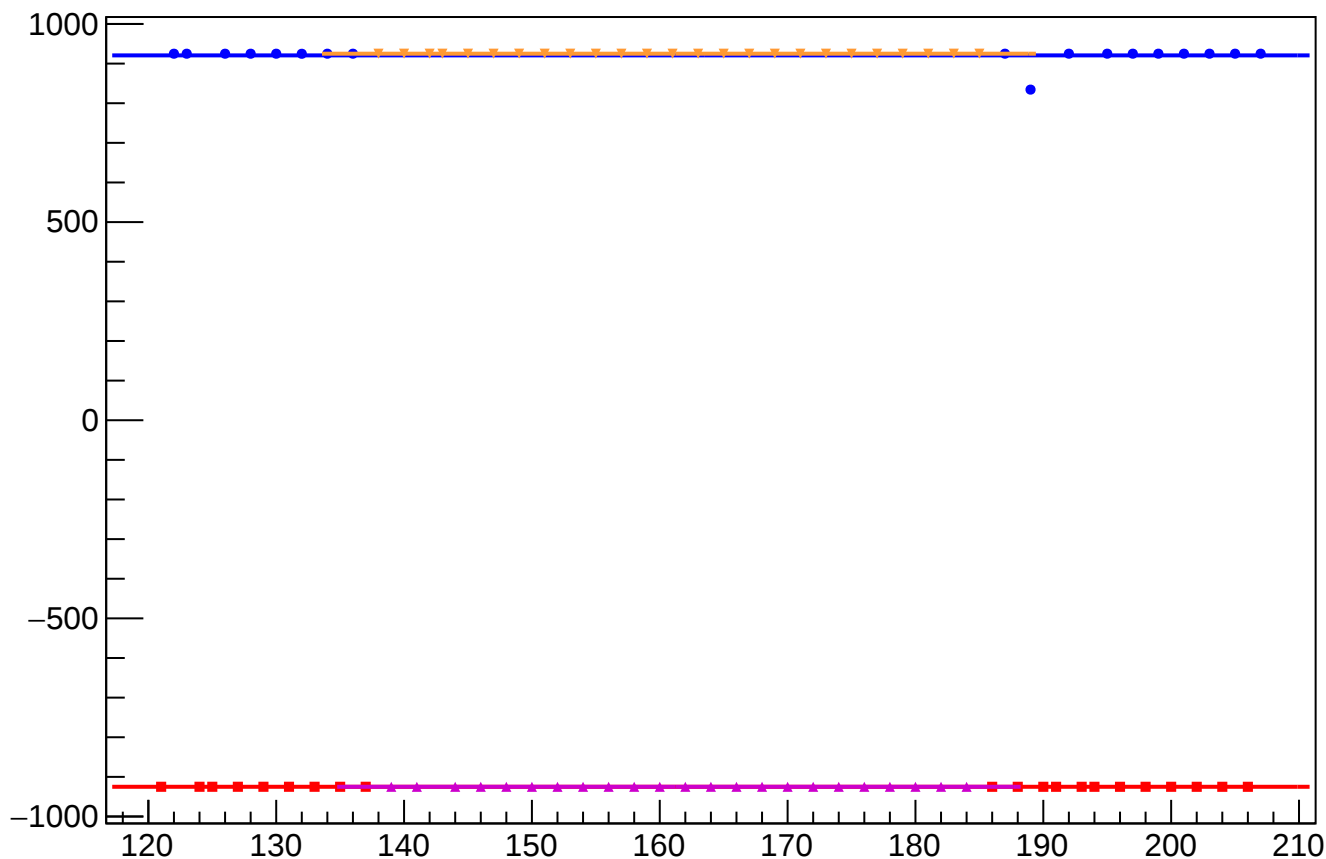
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: 0.000+/-0.000

χ^2/NDF : 52183642317802

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.713+/-0.000

χ^2/NDF : 399305699910593383471802861215547392.0/17

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.997+/-0.000

χ^2/NDF : 861698478877562130081169539072.0/20

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

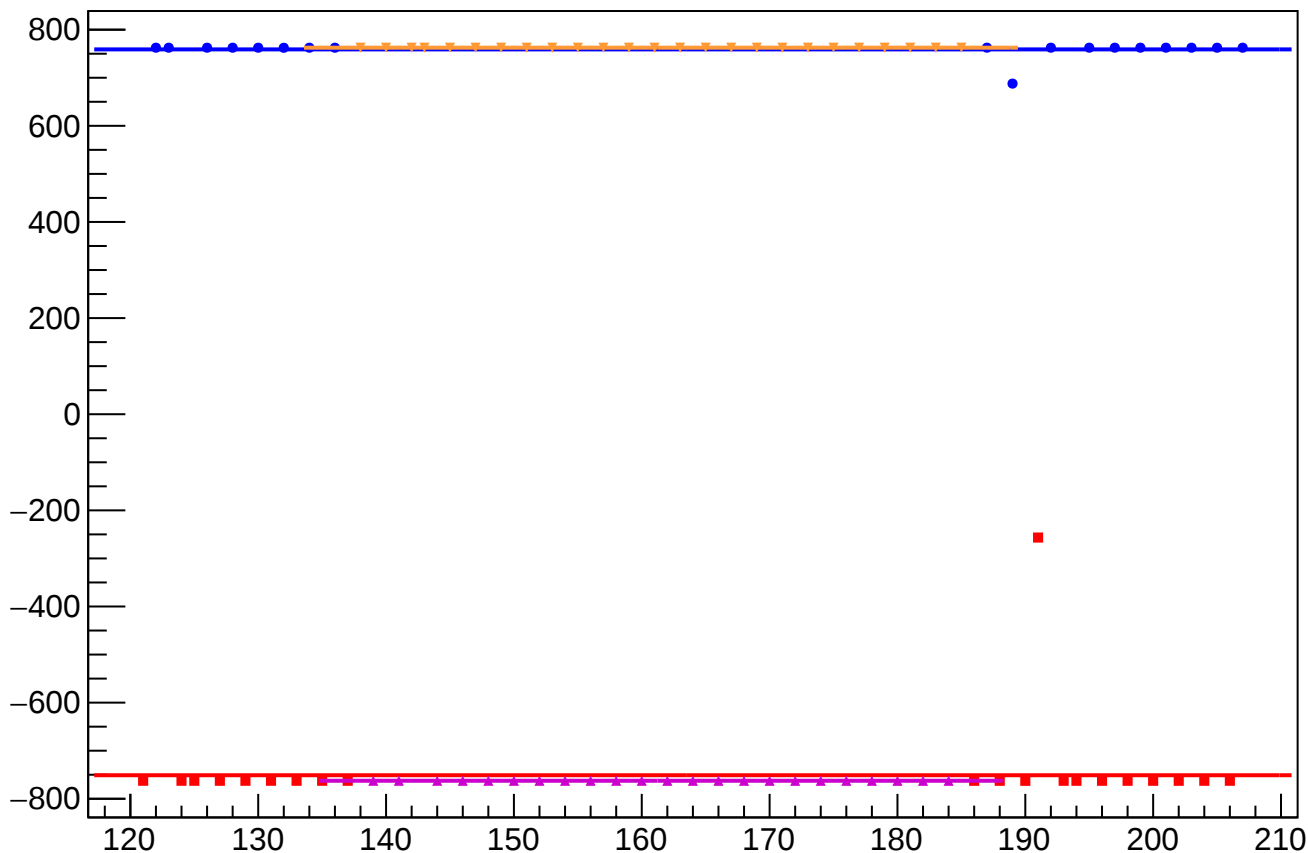
Right: -28.675+/-0.000 χ^2/NDF : 189462934987755

In: -235.081+/-0.000 χ^2/NDF : 2306434696081919

Out: 231.619+/-0.000 χ^2/NDF : 2449973967944387

All: 4.665+/-0.000 χ^2/NDF : 50799921617179

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 758.984+/-0.000

χ^2/NDF : 271137400507169754893752880393617408.0/17

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -751.036+/-0.000

χ^2/NDF : 6505116593699807576131000056909135872.0/20

Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

Left: 20.287+/-0.000 χ^2/NDF : 21619874128230354

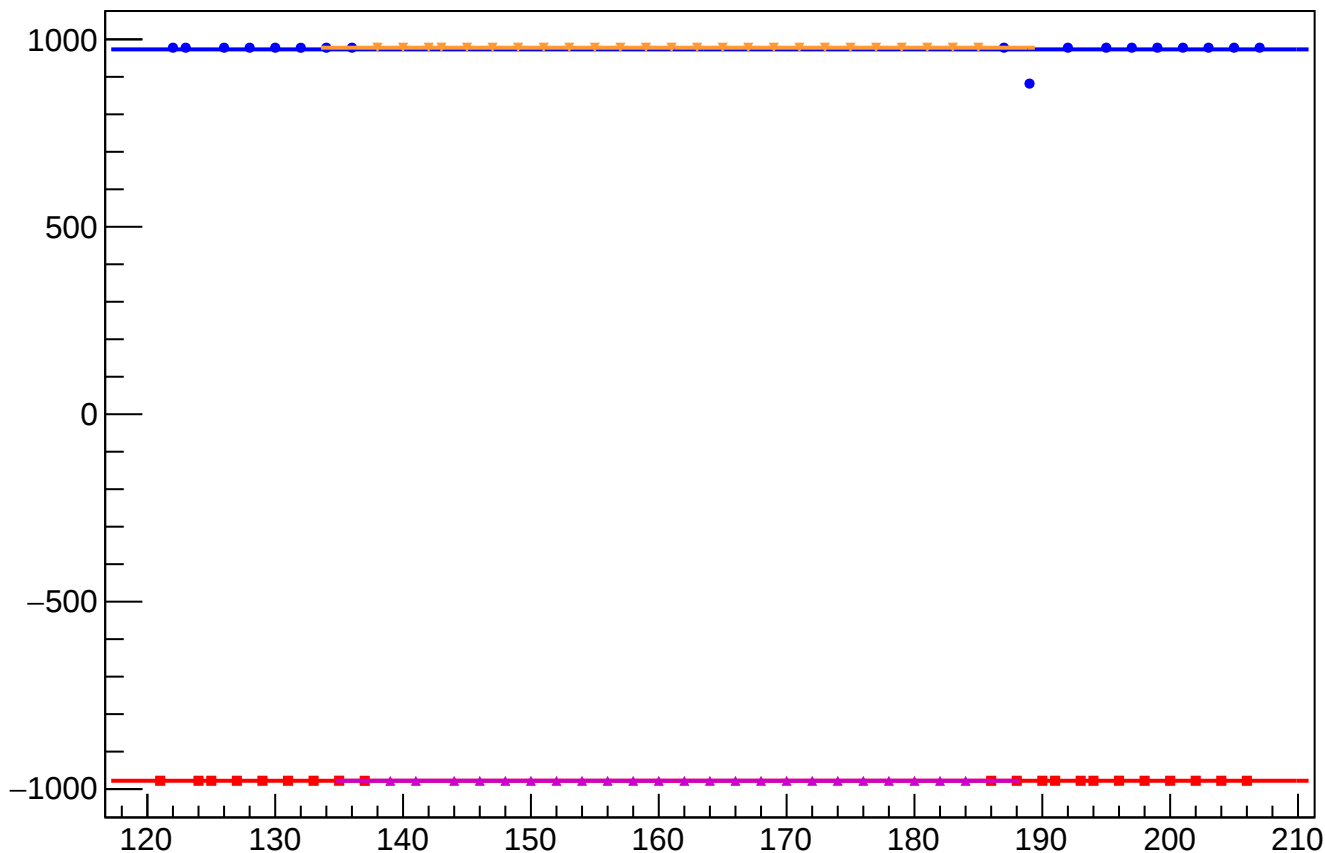
Right: -17.733+/-0.000 χ^2/NDF : 127463753764506

In: -193.797+/-0.000 χ^2/NDF : 1567353455546608

Out: 195.245+/-0.000 χ^2/NDF : 1646429123269495

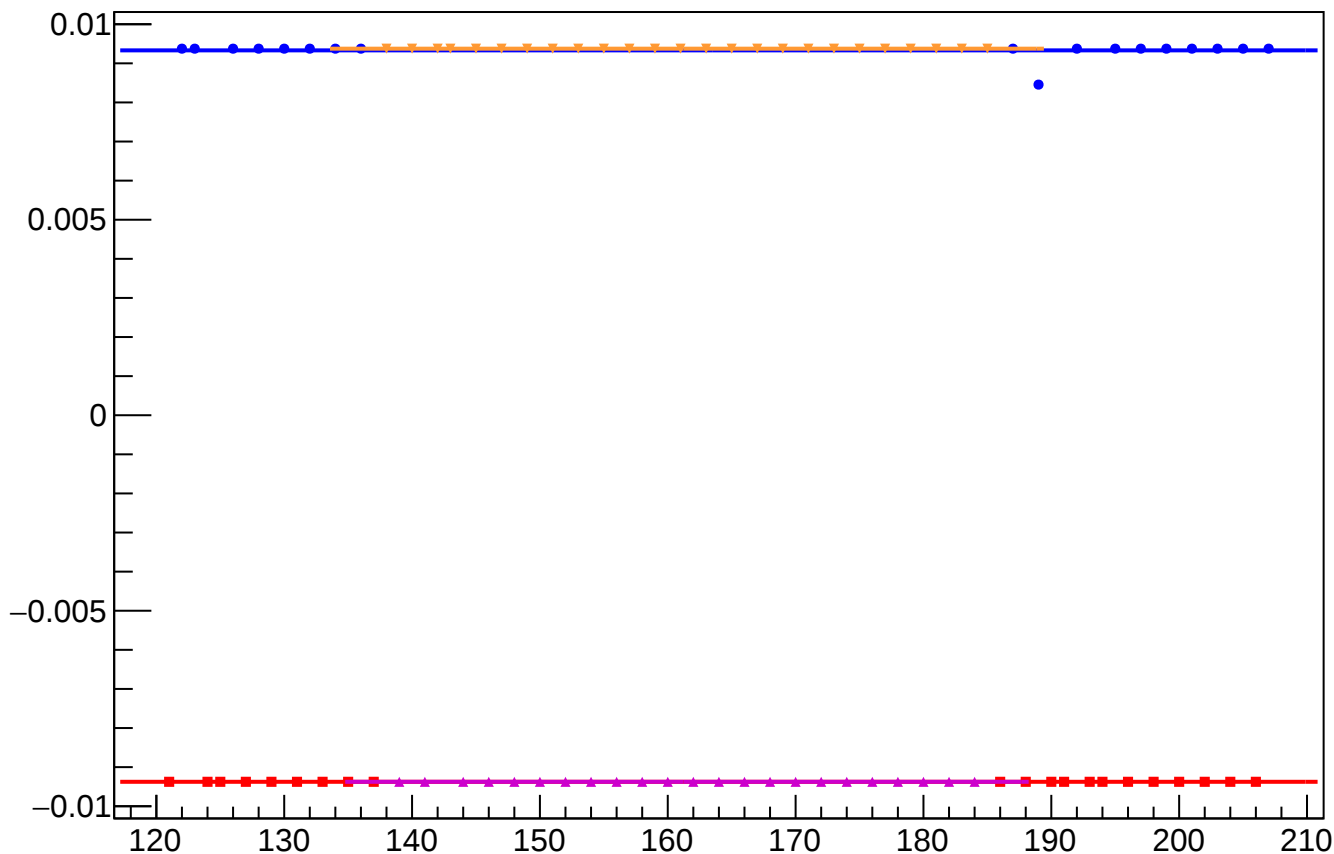
All: 6.056+/-0.000 χ^2/NDF : 34386382839513

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.237 +/- 0.000 χ^2/NDF : 446343004437128993555978316068945920.0/17
 Left Out: 977.738 +/- 0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.755 +/- 0.000 χ^2/NDF : 1825510370172774799142811598848.0/20
 Left In: -977.735 +/- 0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 4.934 +/- 0.000 χ^2/NDF : 56759976627806

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41051016556019995350401024.0/17

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1946207269390652

In: -0.002+/-0.000

χ^2/NDF : 236925914374274783

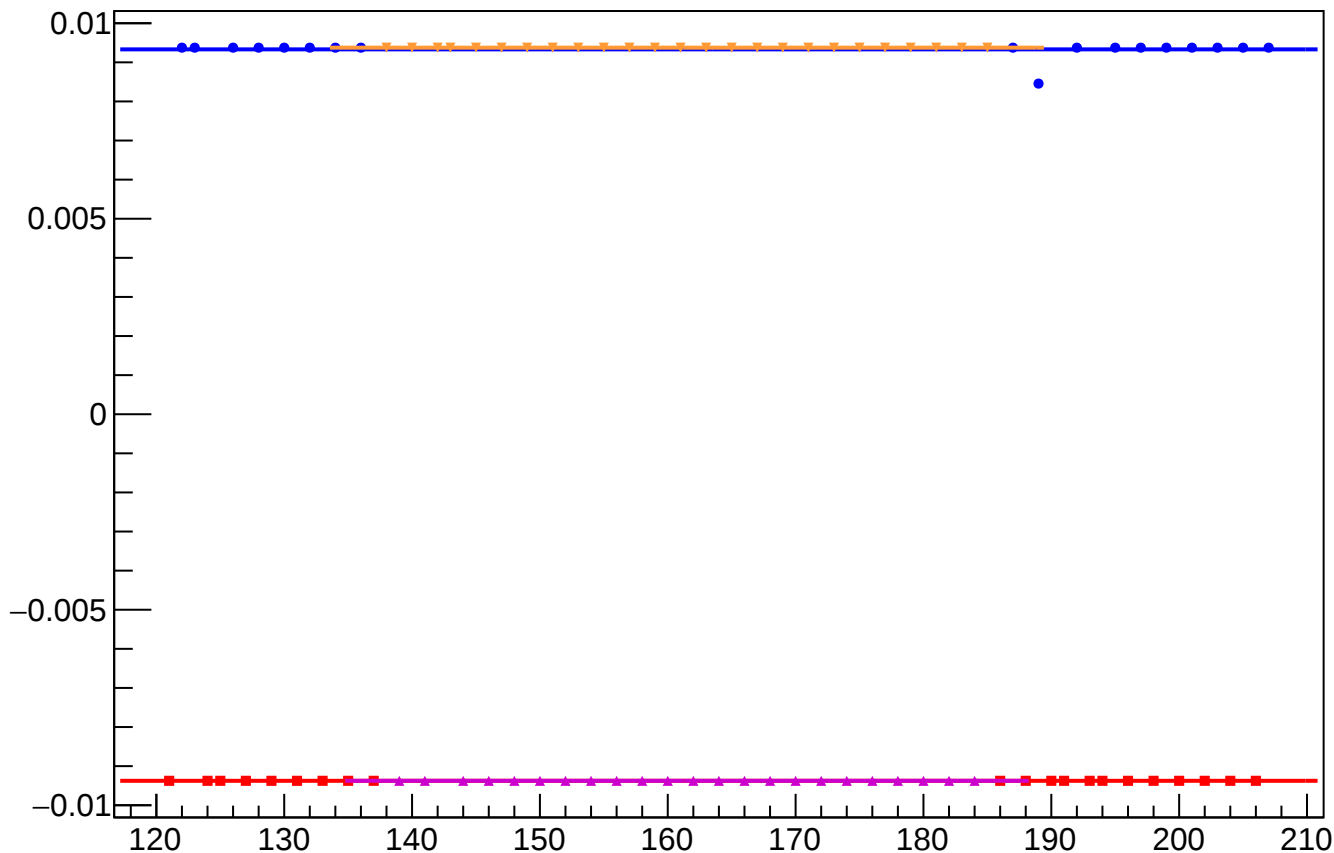
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: 0.000+/-0.000

χ^2/NDF : 52183642317802

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41051016556019995350401024.0/17

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1946207269390652

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.002+/-0.000

χ^2/NDF : 236925914374274783

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

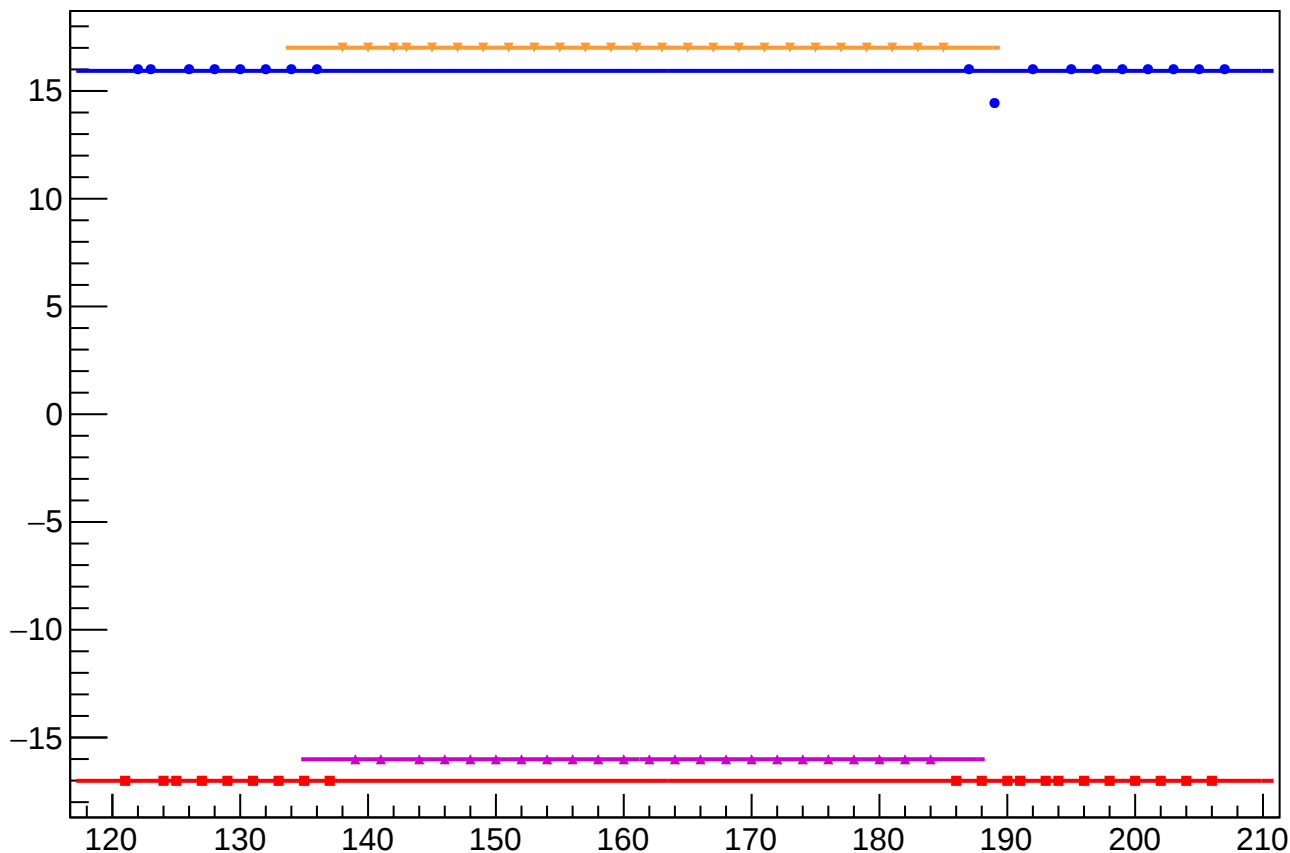
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

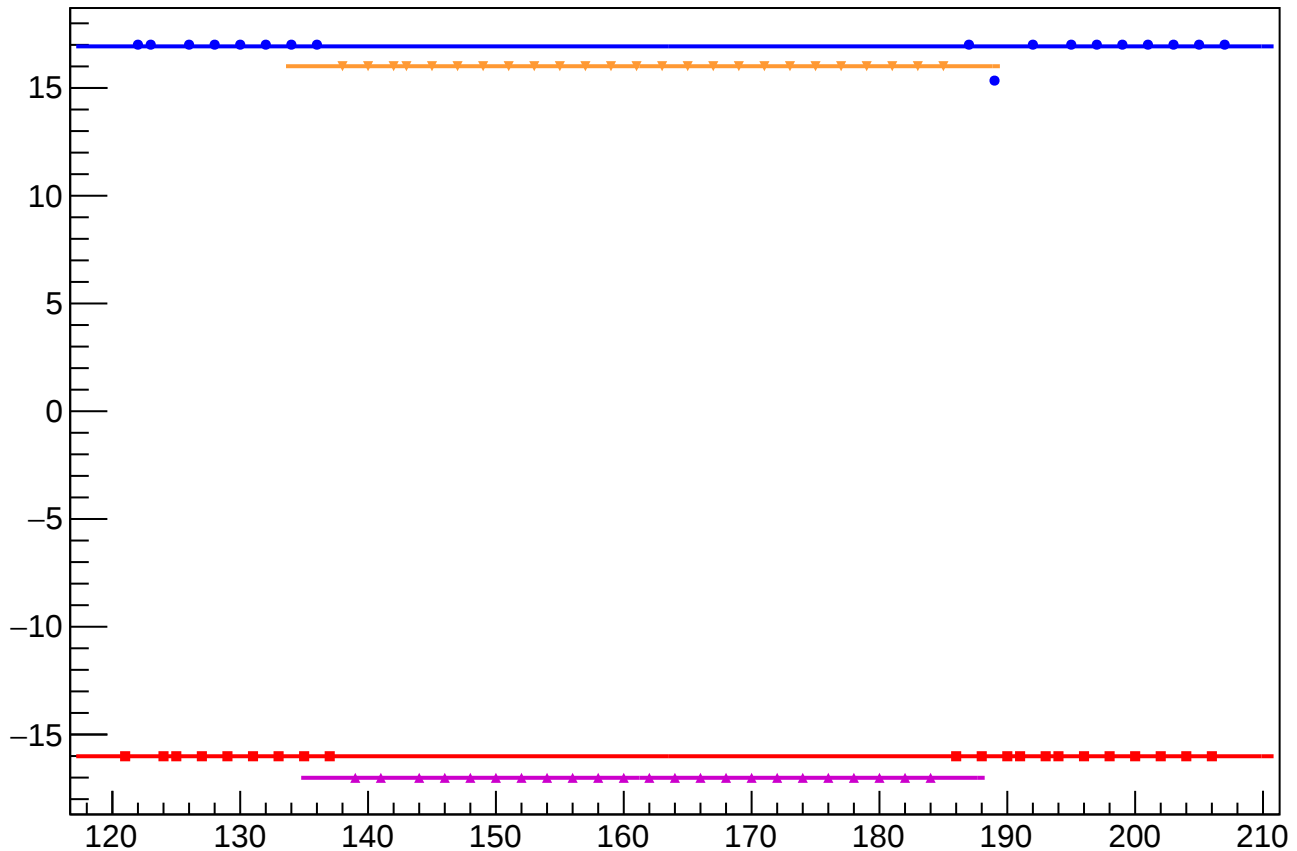
χ^2/NDF : 52183642317802

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



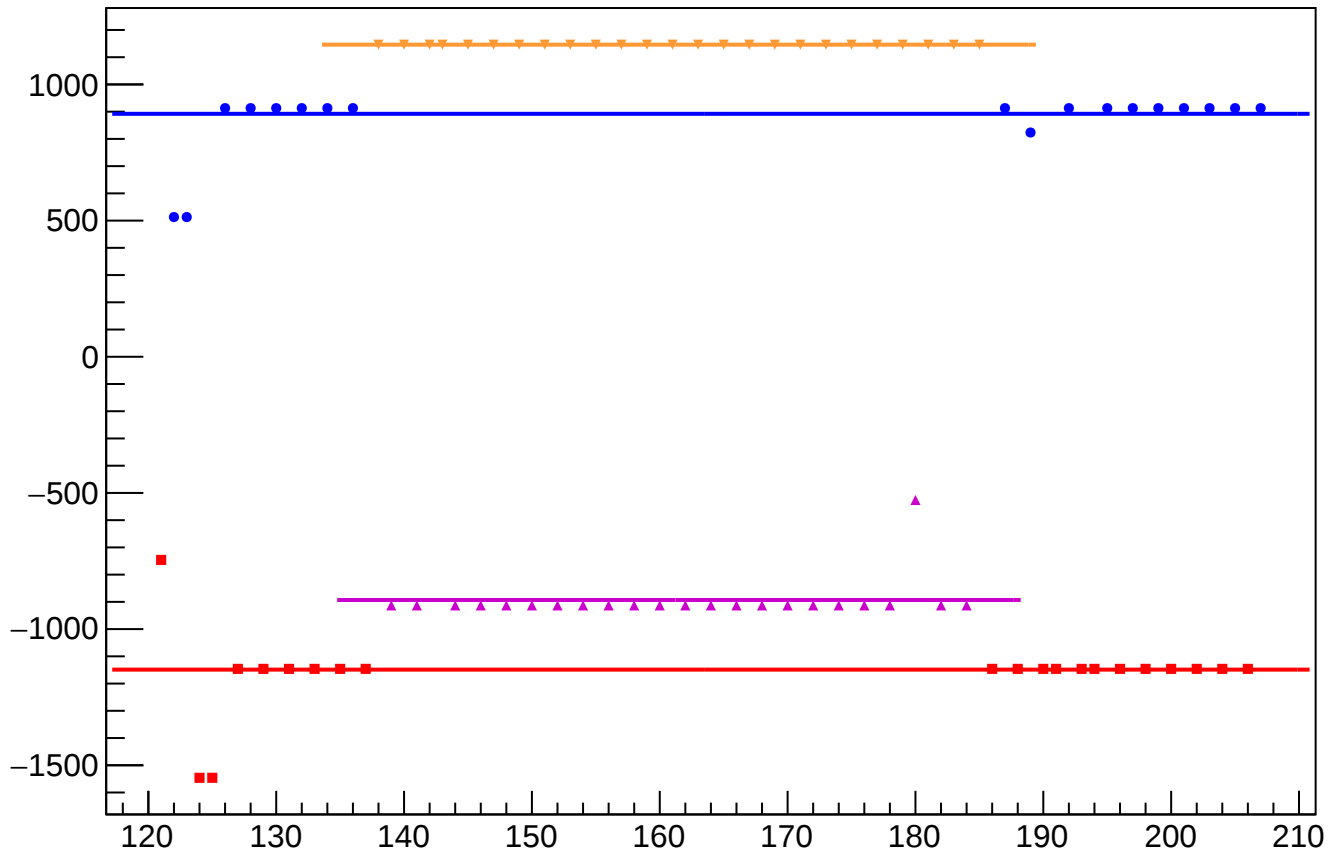
Right In: 15.933 $\pm$ 0.000 χ^2 /NDF: 119563362087204653572510611144704.0/17
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 15312521325834853117067264.0/20
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.151 $\pm$ 0.000 χ^2 /NDF: 15393549833570

IGL1I00OD16_16_mean vs Slug, Sign Corrected



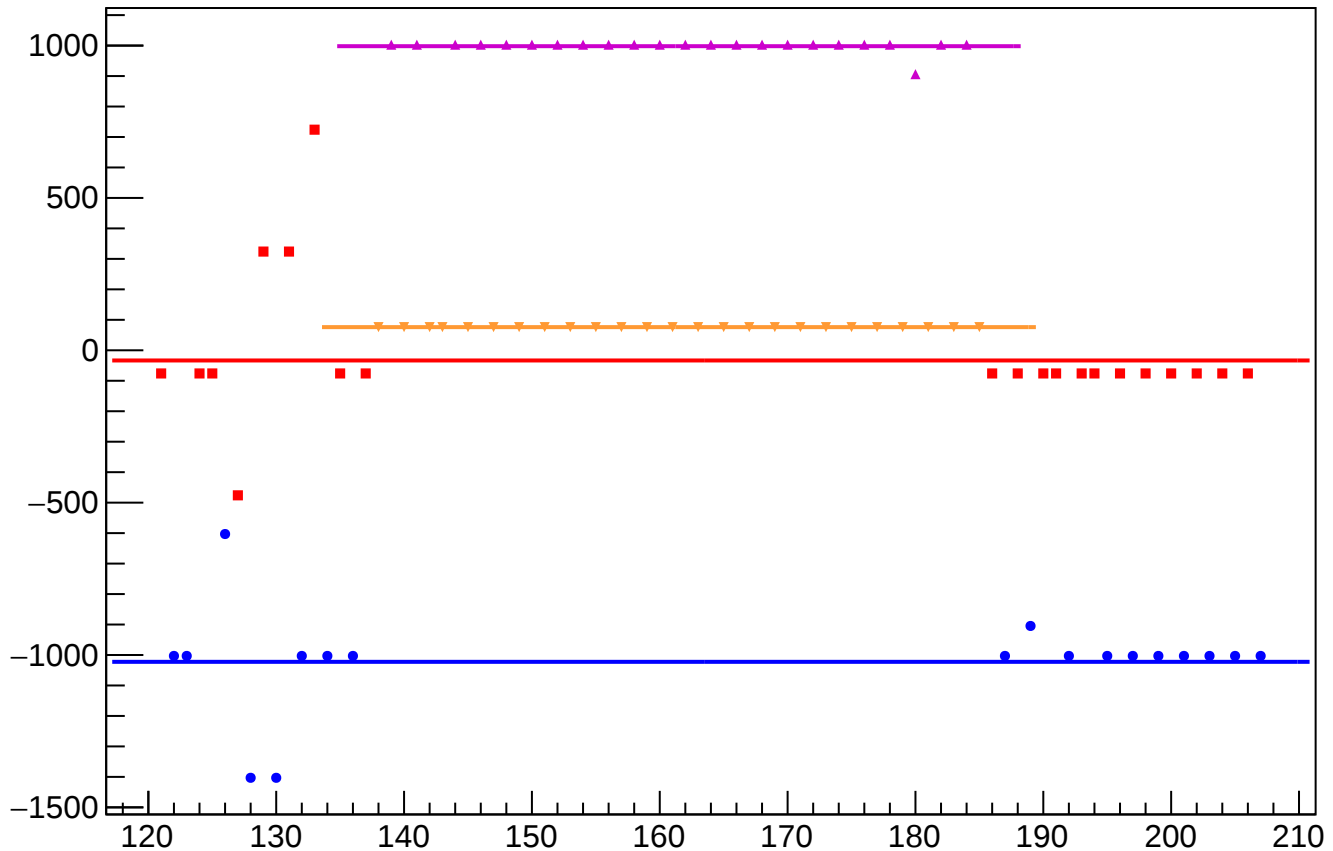
Right In: 16.931+/-0.000	χ^2/NDF : 135131468196491553610507118182400.0/17	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.013+/-0.000	χ^2/NDF : 6034654239236406
Right Out: -16.009+/-0.000	χ^2/NDF : 262482.4/20	In: -4.122+/-0.000	χ^2/NDF : 772556751359220217
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 3.914+/-0.000	χ^2/NDF : 730415507485541130
		All: 0.022+/-0.000	χ^2/NDF : 15977819983793

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 892.120+/-0.000 χ^2/NDF : 7137651945867428802641653296288235520.0/17
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.804+/-0.000 χ^2/NDF : 13751725725163020707524462697917710336.0/20
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 37.069+/-0.000 χ^2/NDF : 6350435116102

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1022.402 +/- 0.000

χ^2/NDF : 23285414224692682783346691788345704448.0/17

Left Out: 76.011 +/- 0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -33.391 +/- 0.000

χ^2/NDF : 44959920210462147520212989259089444864.0/20

Left In: 998.020 +/- 0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 136.060 +/- 0.000 χ^2/NDF : 290510276155