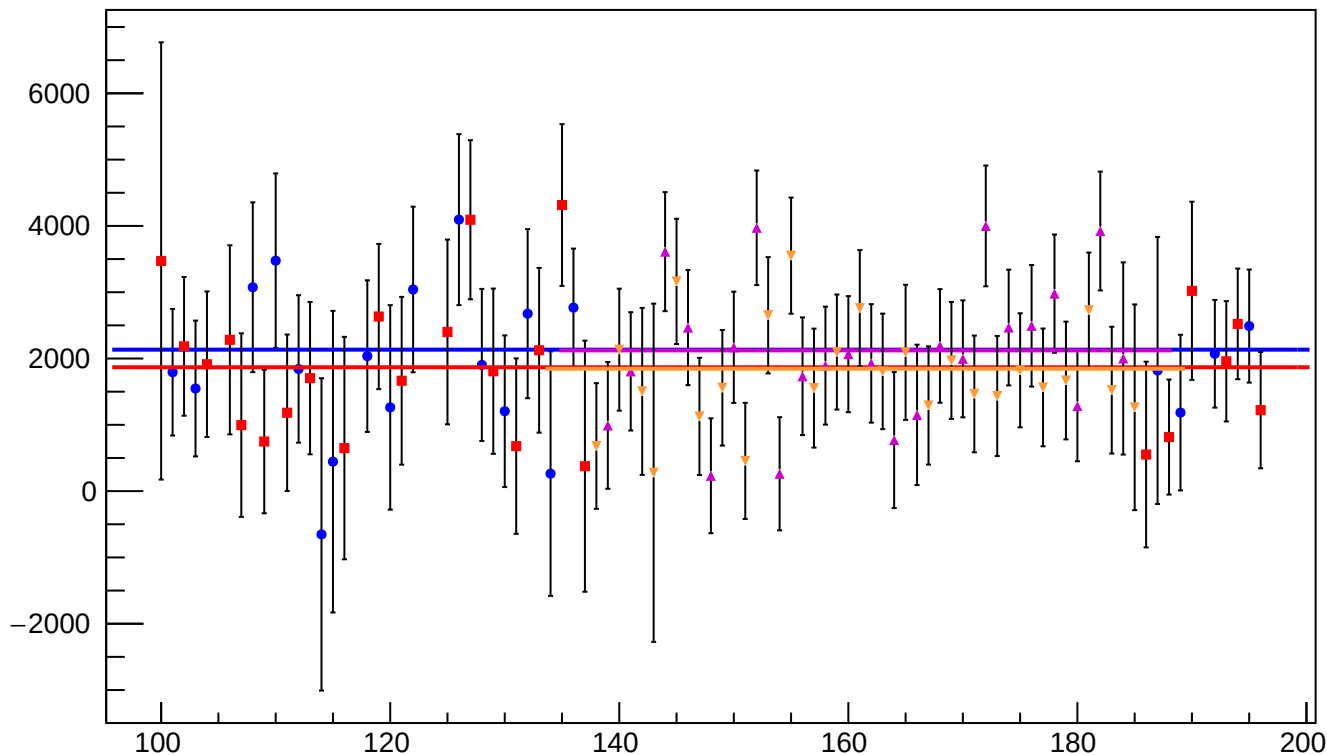


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2133.764+/-263.483

Left Out: 1845.799+/-186.902

Right Out: 1868.248+/-240.028

Left In: 2123.138+/-188.684

χ^2/NDF : 10.5/19

χ^2/NDF : 15.5/24

χ^2/NDF : 16.6/23

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1988.664+/-177.439

In: 2126.740+/-153.406

Out: 1854.273+/-147.468

All: 1985.131+/-106.313

χ^2/NDF : 48.6/47

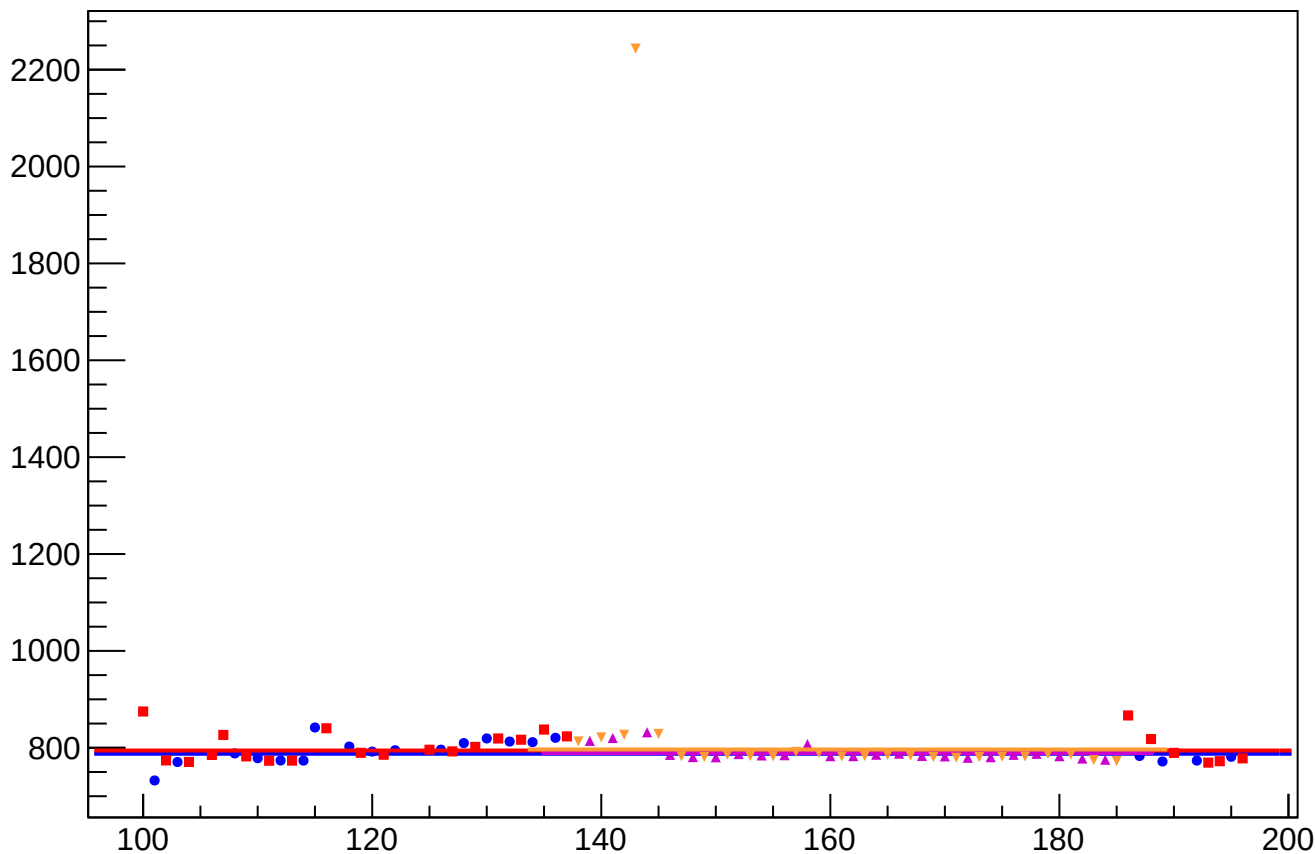
χ^2/NDF : 27.7/43

χ^2/NDF : 42.5/42

χ^2/NDF : 32.1/48

χ^2/NDF : 76.3/91

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 787.668 $\pm$ 0.186 χ^2 /NDF: 16560.4/19

Left Out: 796.441 $\pm$ 0.132 χ^2 /NDF: 658708.8/24

Right Out: 794.340 $\pm$ 0.170 χ^2 /NDF: 22100.5/23

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

Left: 792.847 $\pm$ 0.094 χ^2 /NDF: 671545.0/47

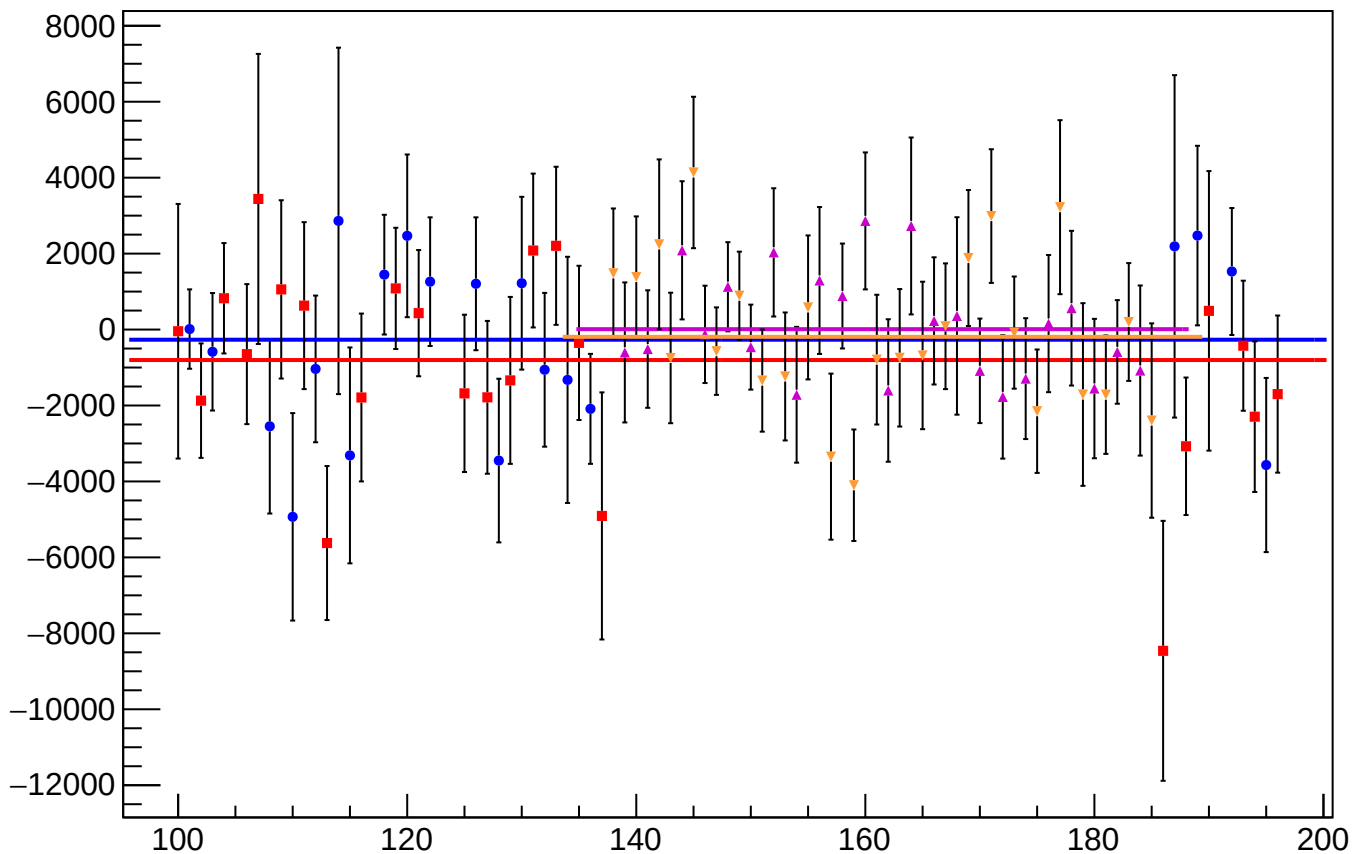
Right: 791.314 $\pm$ 0.125 χ^2 /NDF: 39361.8/43

In: 788.670 $\pm$ 0.108 χ^2 /NDF: 27947.4/42

Out: 795.648 $\pm$ 0.104 χ^2 /NDF: 680904.6/48

All: 792.297 $\pm$ 0.075 χ^2 /NDF: 711002.5/91

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -267.544+/-430.669 χ^2/NDF : 19.4/19

Left Out: -191.027+/-333.904 χ^2/NDF : 30.1/24

Right Out: -802.755+/-417.128 χ^2/NDF : 25.6/23

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

Left: -91.637+/-237.475 χ^2/NDF : 44.5/47

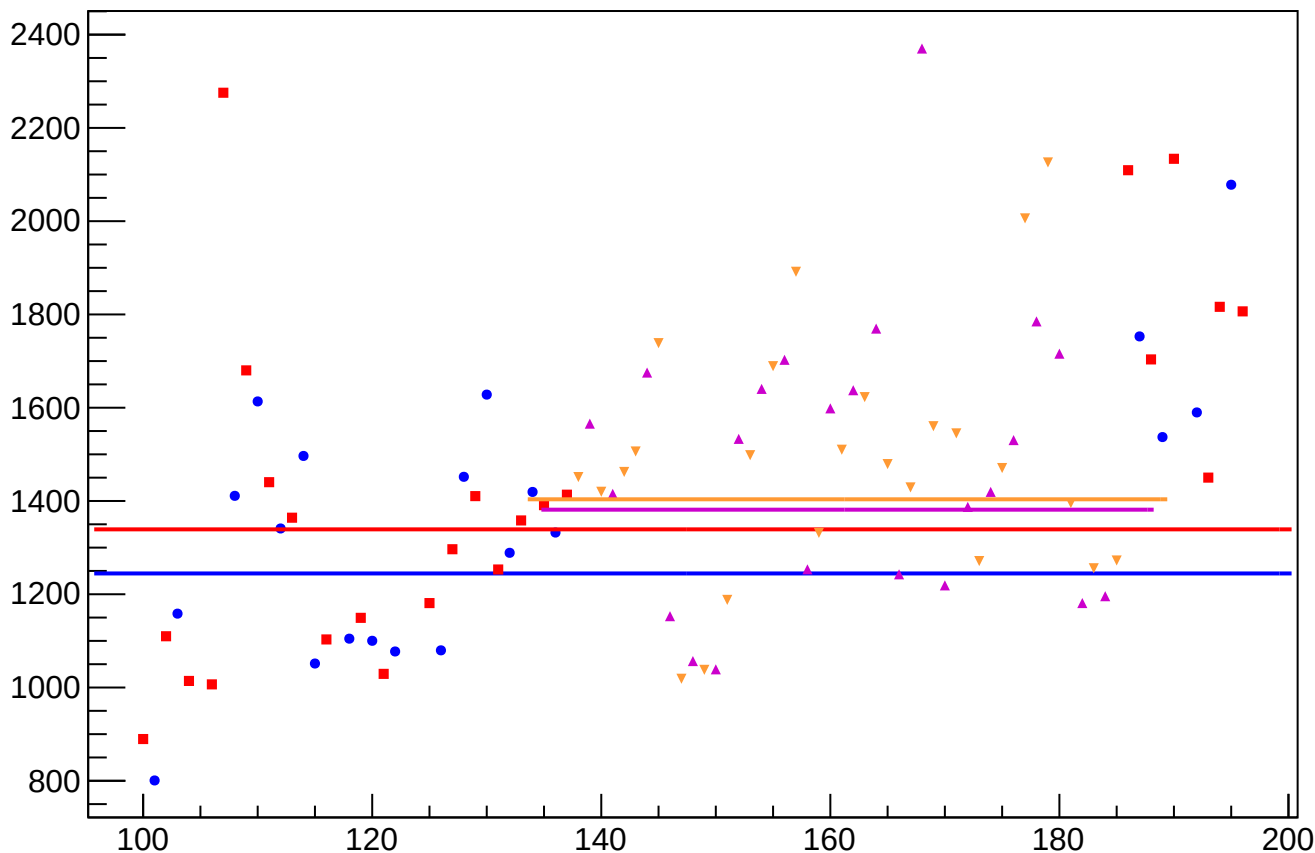
Right: -543.696+/-299.627 χ^2/NDF : 45.9/43

In: -95.660+/-265.798 χ^2/NDF : 33.9/42

Out: -429.926+/-260.674 χ^2/NDF : 57.1/48

All: -266.046+/-186.109 χ^2/NDF : 91.8/91

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1244.609 $\pm$ 0.305 χ^2 /NDF: 991152.5/19

Left Out: 1403.610 $\pm$ 0.236 χ^2 /NDF: 1126524.9/24

Right Out: 1339.149 $\pm$ 0.295 χ^2 /NDF: 1057259.7/23

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

Left: 1392.613 $\pm$ 0.168 χ^2 /NDF: 2407402.2/47

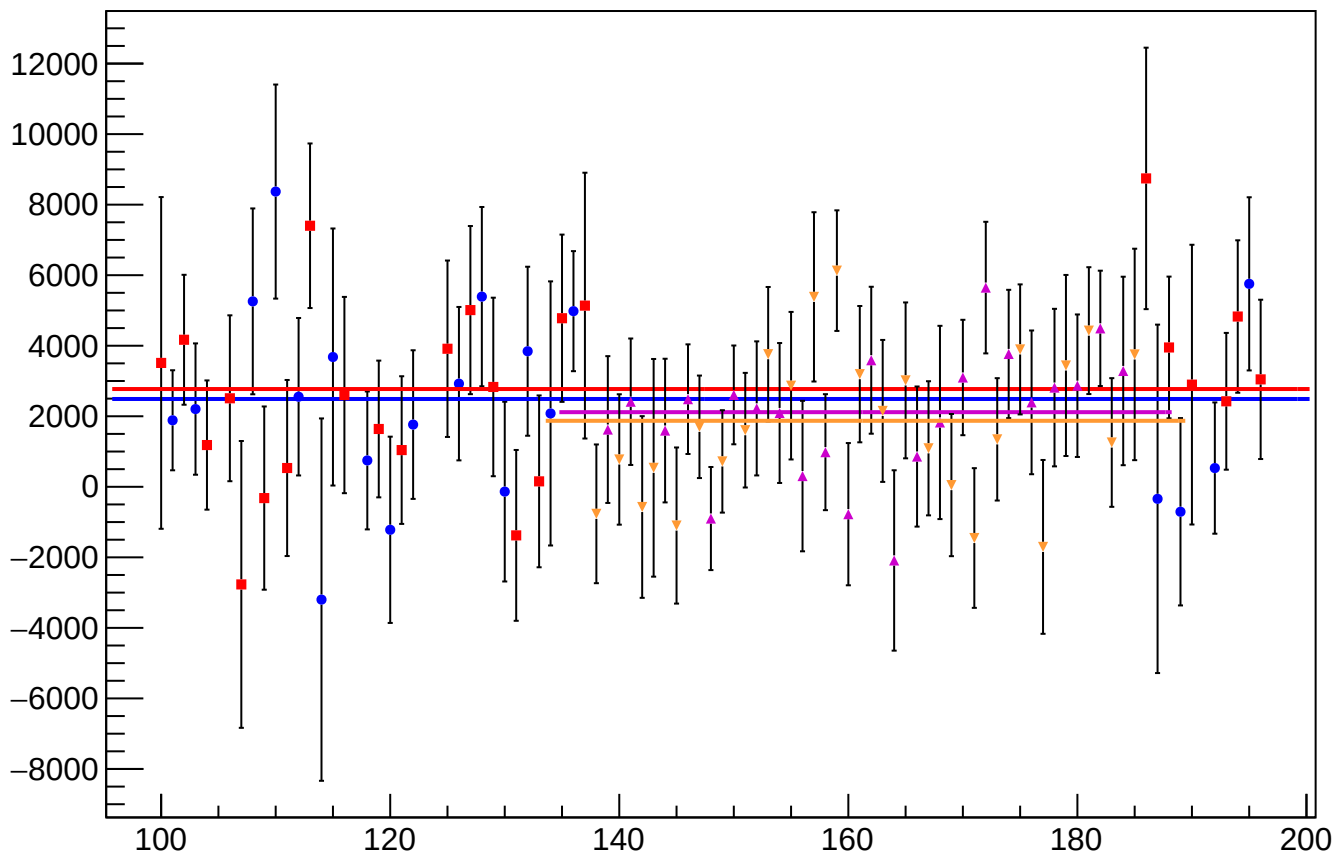
Right: 1293.389 $\pm$ 0.212 χ^2 /NDF: 2098139.4/43

In: 1329.270 $\pm$ 0.188 χ^2 /NDF: 2392479.5/42

Out: 1378.436 $\pm$ 0.184 χ^2 /NDF: 2212893.7/48

All: 1354.332 $\pm$ 0.132 χ^2 /NDF: 4640254.2/91

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2490.034+/-517.747 χ^2/NDF : 18.8/19

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

Right Out: 2772.332+/-491.798 χ^2/NDF : 20.6/23

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

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

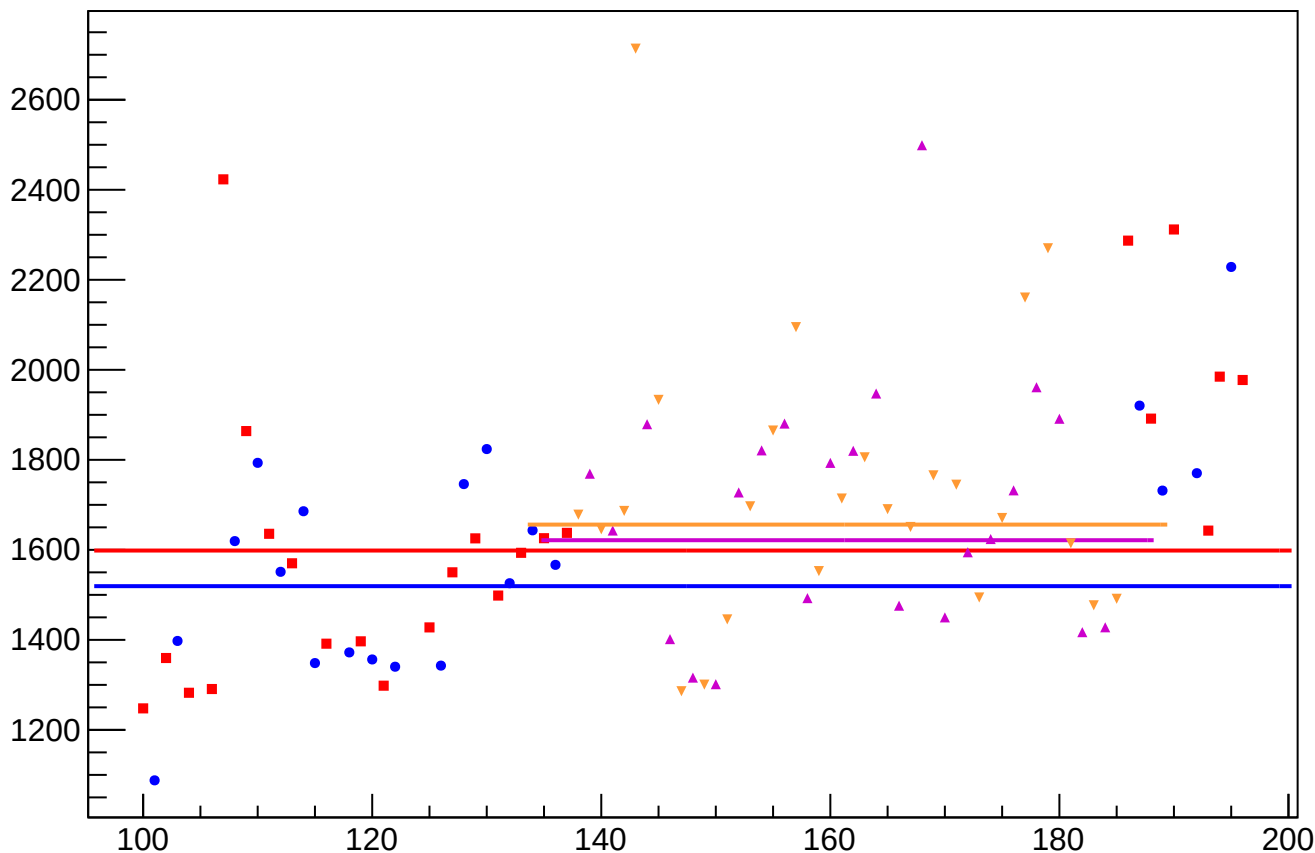
Right: 2638.434+/-356.574 χ^2/NDF : 39.6/43

In: 2252.799+/-313.032 χ^2/NDF : 37.9/42

Out: 2221.214+/-306.386 χ^2/NDF : 48.8/48

All: 2236.668+/-218.960 χ^2/NDF : 86.7/91

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1519.332 $\pm$ 0.366 χ^2/NDF : 543798.3/19

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

Right Out: 1598.481 $\pm$ 0.348 χ^2/NDF : 628046.8/23

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

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

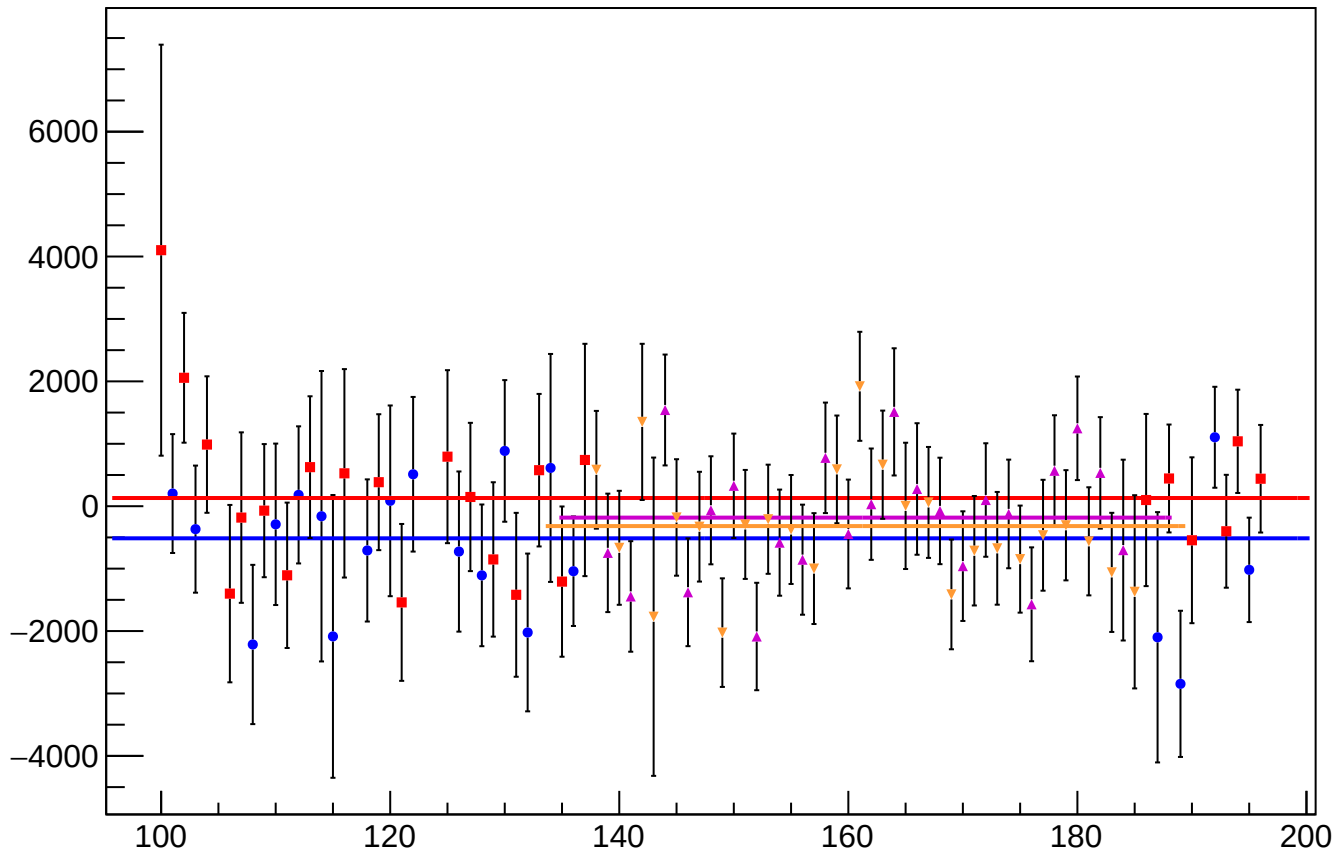
Right: 1560.940 $\pm$ 0.252 χ^2/NDF : 1196415.7/43

In: 1584.100 $\pm$ 0.221 χ^2/NDF : 1368439.2/42

Out: 1633.749 $\pm$ 0.217 χ^2/NDF : 1555429.3/48

All: 1609.457 $\pm$ 0.155 χ^2/NDF : 2949564.2/91

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -514.290+/-261.154 χ^2/NDF : 17.1/19

Left Out: -318.336+/-186.041 χ^2/NDF : 20.4/24

Right Out: 131.295+/-237.769 χ^2/NDF : 15.8/23

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

Left: -251.259+/-132.174 χ^2/NDF : 46.8/47

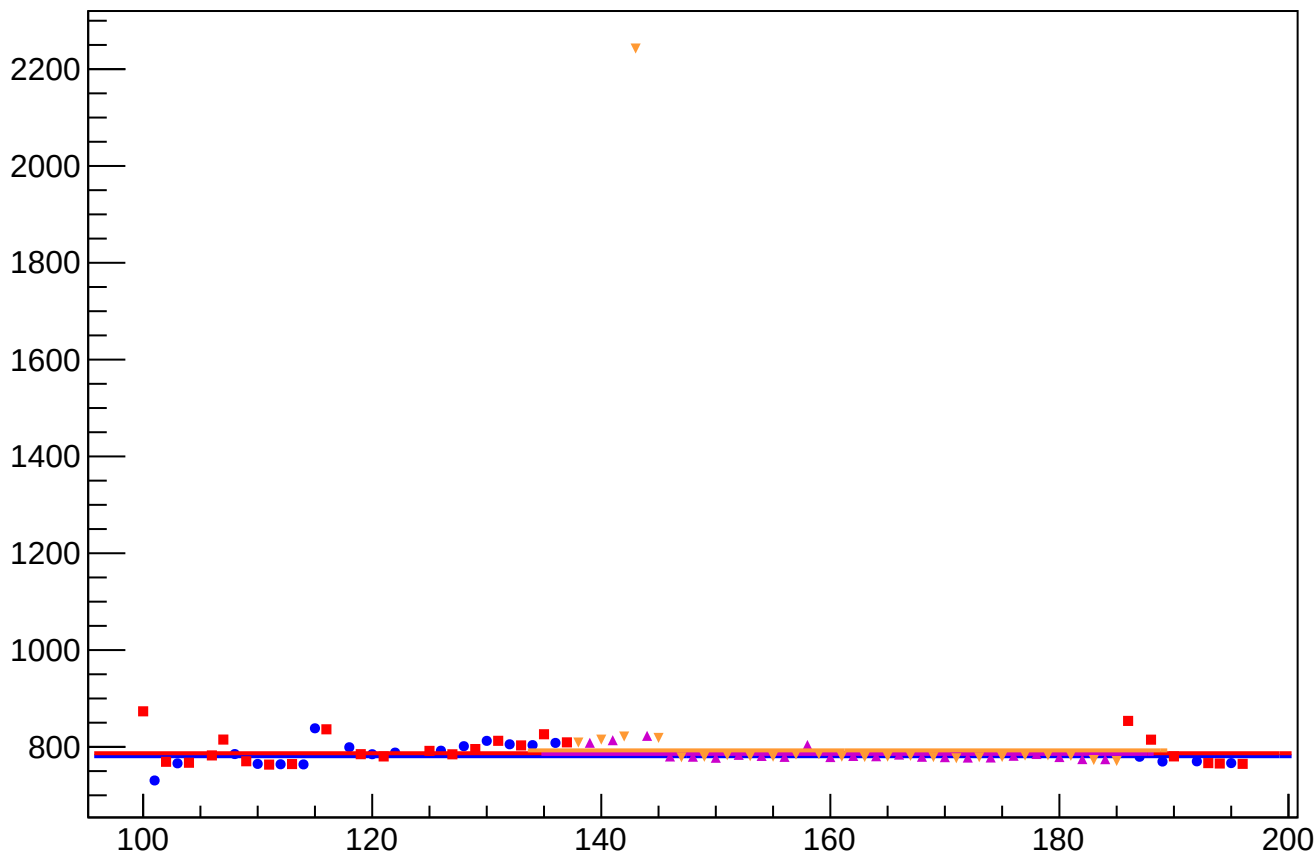
Right: -161.305+/-175.816 χ^2/NDF : 36.2/43

In: -295.868+/-152.479 χ^2/NDF : 44.3/42

Out: -147.595+/-146.520 χ^2/NDF : 38.3/48

All: -218.777+/-105.649 χ^2/NDF : 83.1/91

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 780.748+/-0.185 χ^2/NDF : 15282.1/19

Left Out: 792.791+/-0.132 χ^2/NDF : 659510.7/24

Right Out: 786.916+/-0.168 χ^2/NDF : 21482.1/23

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

Left: 789.226+/-0.093 χ^2/NDF : 670367.6/47

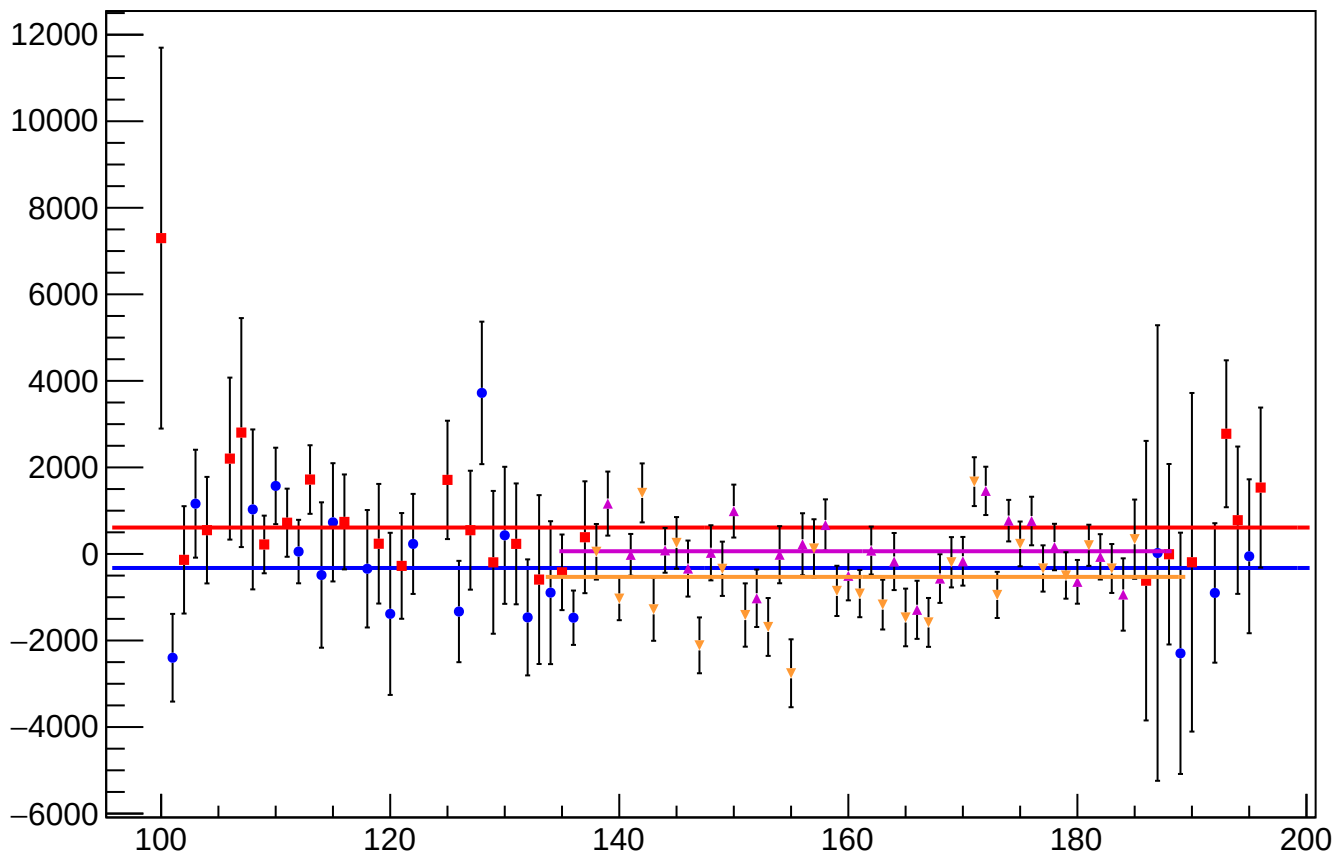
Right: 784.121+/-0.124 χ^2/NDF : 37374.1/43

In: 783.941+/-0.108 χ^2/NDF : 25109.3/42

Out: 790.560+/-0.104 χ^2/NDF : 681750.3/48

All: 787.382+/-0.075 χ^2/NDF : 708819.2/91

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -324.068 ± 273.841 $\chi^2/\text{NDF}: 24.0/19$

Left Out: -530.101 ± 119.543 $\chi^2/\text{NDF}: 61.6/24$

Right Out: 610.590 ± 260.276 $\chi^2/\text{NDF}: 12.0/23$

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

Left: -239.807 ± 85.401 $\chi^2/\text{NDF}: 102.5/47$

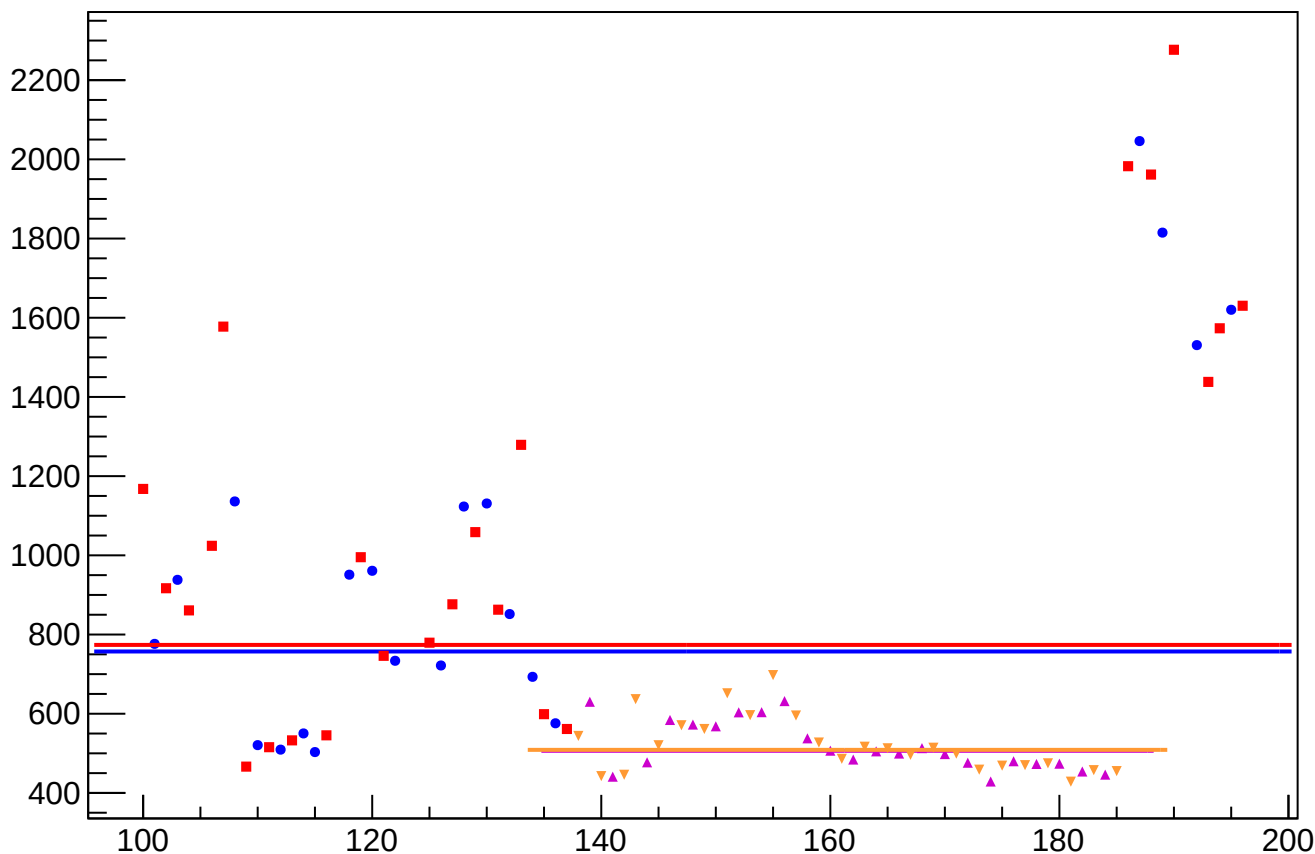
Right: 166.983 ± 188.656 $\chi^2/\text{NDF}: 42.1/43$

In: -1.337 ± 111.475 $\chi^2/\text{NDF}: 54.5/42$

Out: -331.391 ± 108.633 $\chi^2/\text{NDF}: 89.4/48$

All: -170.625 ± 77.801 $\chi^2/\text{NDF}: 148.4/91$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 757.213+/-0.194 χ^2/NDF : 2394478.7/19

Left Out: 508.773+/-0.085 χ^2/NDF : 549245.1/24

Right Out: 773.806+/-0.184 χ^2/NDF : 3985040.8/23

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

Left: 507.601+/-0.060 χ^2/NDF : 985931.7/47

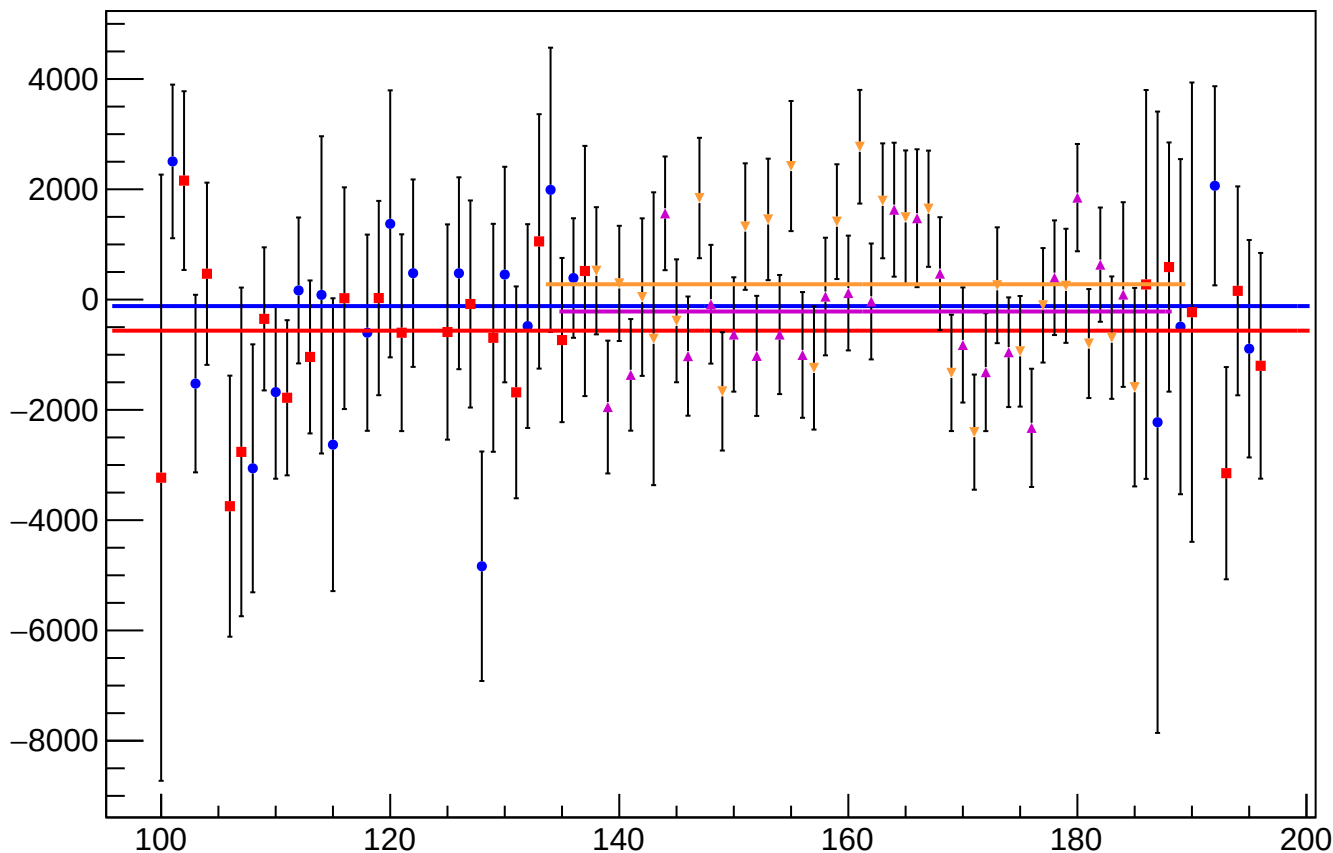
Right: 765.931+/-0.133 χ^2/NDF : 6383377.1/43

In: 547.947+/-0.079 χ^2/NDF : 4230739.8/42

Out: 554.942+/-0.077 χ^2/NDF : 6246800.4/48

All: 551.535+/-0.055 χ^2/NDF : 10481579.3/93

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -118.035 ± 408.523 $\chi^2/\text{NDF}: 16.6/19$

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

Right Out: -563.844 ± 389.866 $\chi^2/\text{NDF}: 10.4/23$

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

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

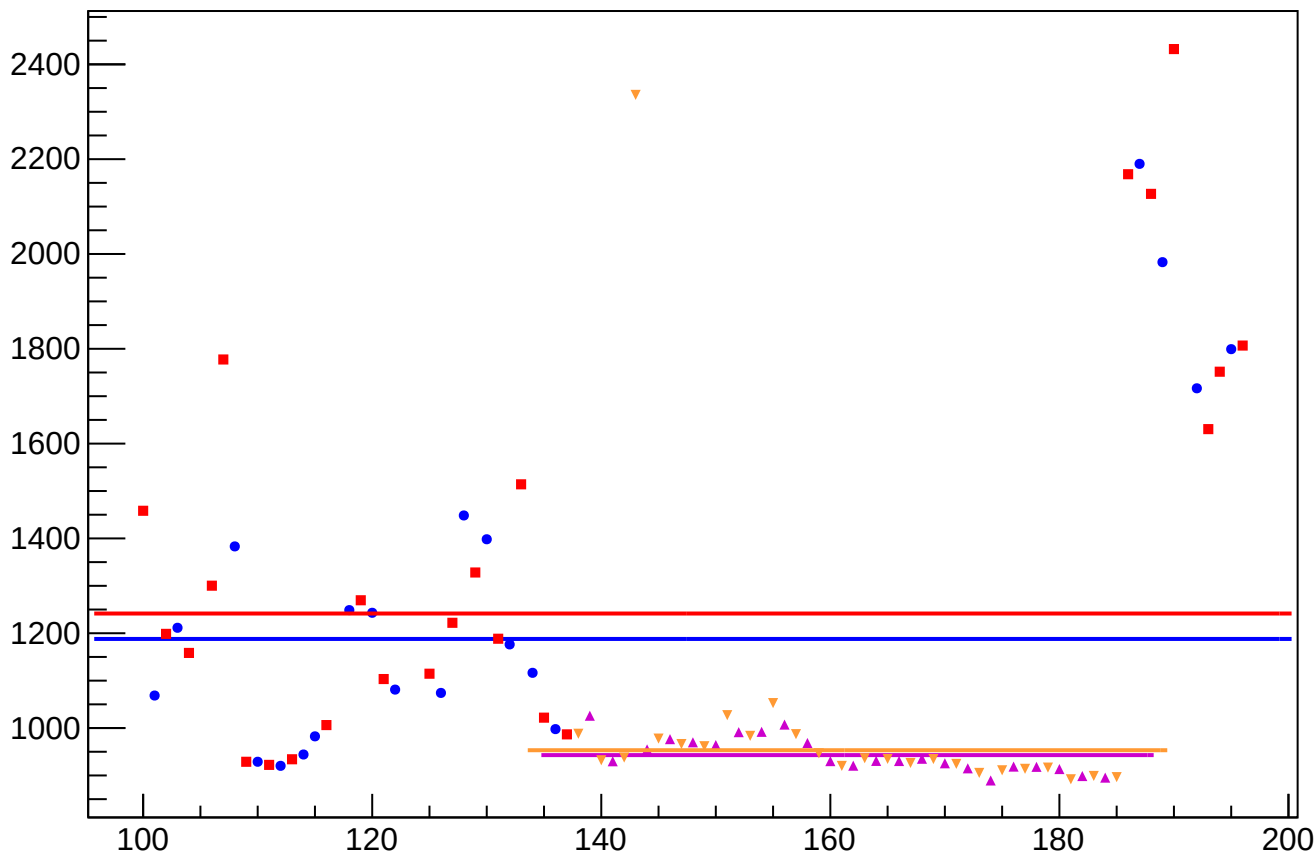
Right: -351.352 ± 282.042 $\chi^2/\text{NDF}: 27.6/43$

In: -193.199 ± 197.488 $\chi^2/\text{NDF}: 41.0/42$

Out: 69.723 ± 193.951 $\chi^2/\text{NDF}: 52.3/48$

All: -59.362 ± 138.378 $\chi^2/\text{NDF}: 94.2/91$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1187.954 $\pm$ 0.289 χ^2/NDF : 894081.5/19

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

Right Out: 1241.586 $\pm$ 0.276 χ^2/NDF : 1530935.1/23

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

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

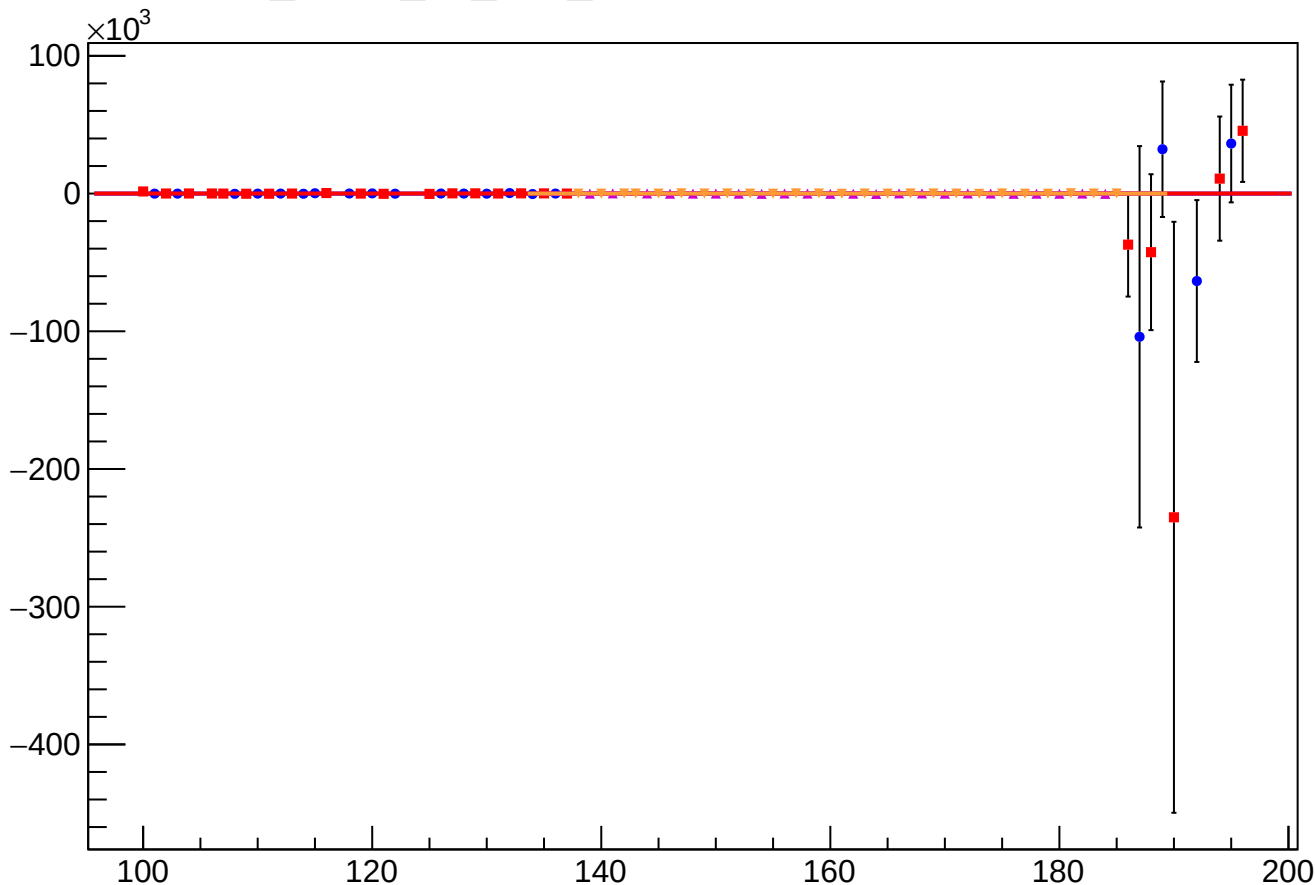
Right: 1216.023 $\pm$ 0.199 χ^2/NDF : 2443056.6/43

In: 1000.188 $\pm$ 0.140 χ^2/NDF : 1493837.6/42

Out: 1024.588 $\pm$ 0.137 χ^2/NDF : 2960585.7/48

All: 1012.608 $\pm$ 0.098 χ^2/NDF : 4469963.5/91

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.543+/-30.032 χ^2/NDF : 18.8/19

Left Out: 4.556+/-20.959 χ^2/NDF : 22.5/24

Right Out: 31.749+/-30.492 χ^2/NDF : 21.1/22

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

Left: -8.784+/-15.037 χ^2/NDF : 45.8/47

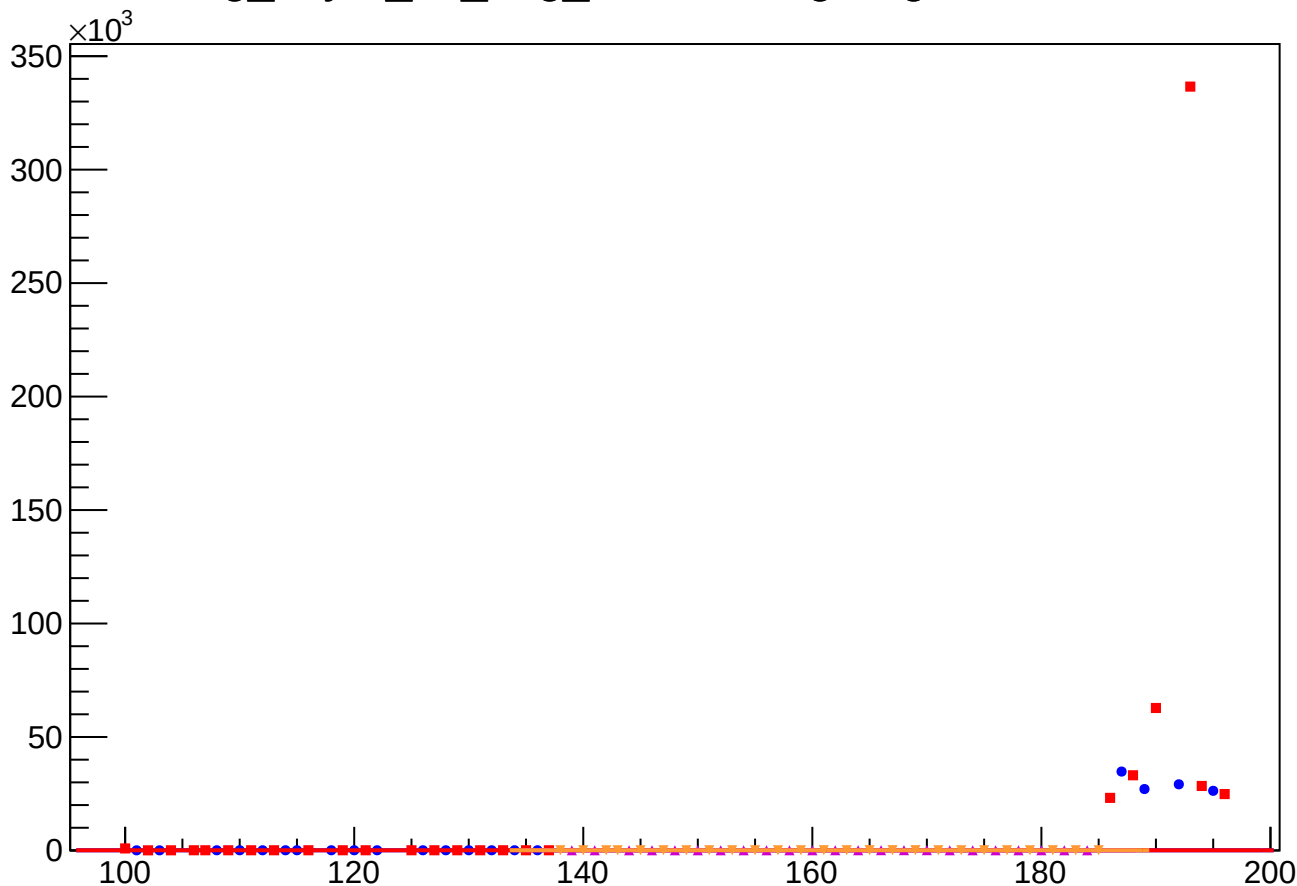
Right: 7.744+/-21.397 χ^2/NDF : 41.2/42

In: -20.415+/-17.527 χ^2/NDF : 41.4/42

Out: 13.282+/-17.272 χ^2/NDF : 44.1/47

All: -3.320+/-12.302 χ^2/NDF : 87.4/90

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.086 $\pm$ 0.021 χ^2 /NDF: 2395472.1/19

Left Out: 89.483 $\pm$ 0.015 χ^2 /NDF: 470330.2/24

Right Out: 79.427 $\pm$ 0.022 χ^2 /NDF: 3752458.0/23

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

Left: 89.538 $\pm$ 0.011 χ^2 /NDF: 978869.2/47

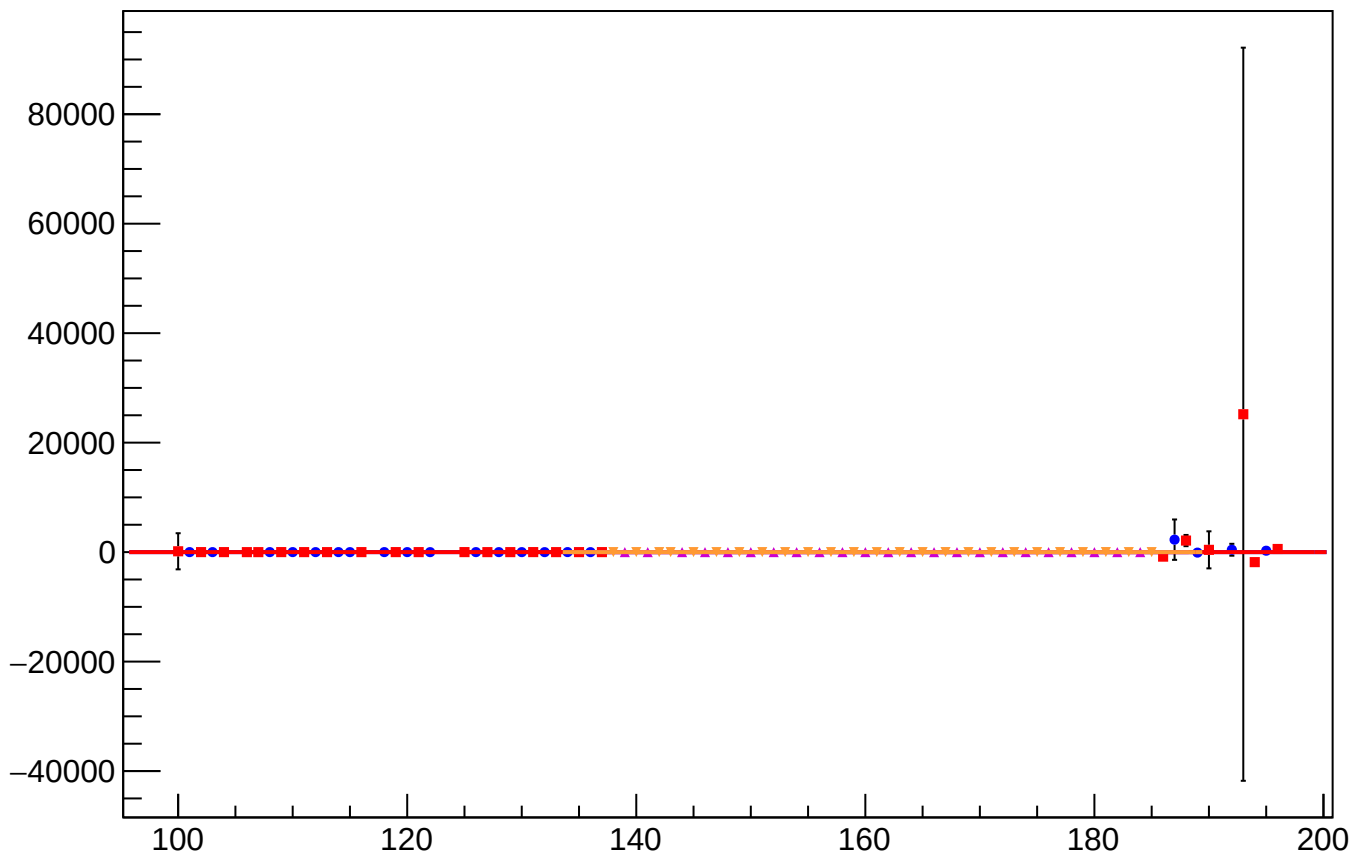
Right: 77.731 $\pm$ 0.015 χ^2 /NDF: 6160121.4/43

In: 84.994 $\pm$ 0.012 χ^2 /NDF: 3170849.2/42

Out: 86.257 $\pm$ 0.012 χ^2 /NDF: 4370517.9/48

All: 85.635 $\pm$ 0.009 χ^2 /NDF: 7546631.2/91

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 21.6/19

Left Out: 0.134 ± 0.367 χ^2/NDF : 21.3/24

Right Out: 0.038 ± 0.525 χ^2/NDF : 20.3/23

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

Left: -0.175 ± 0.266 χ^2/NDF : 49.2/47

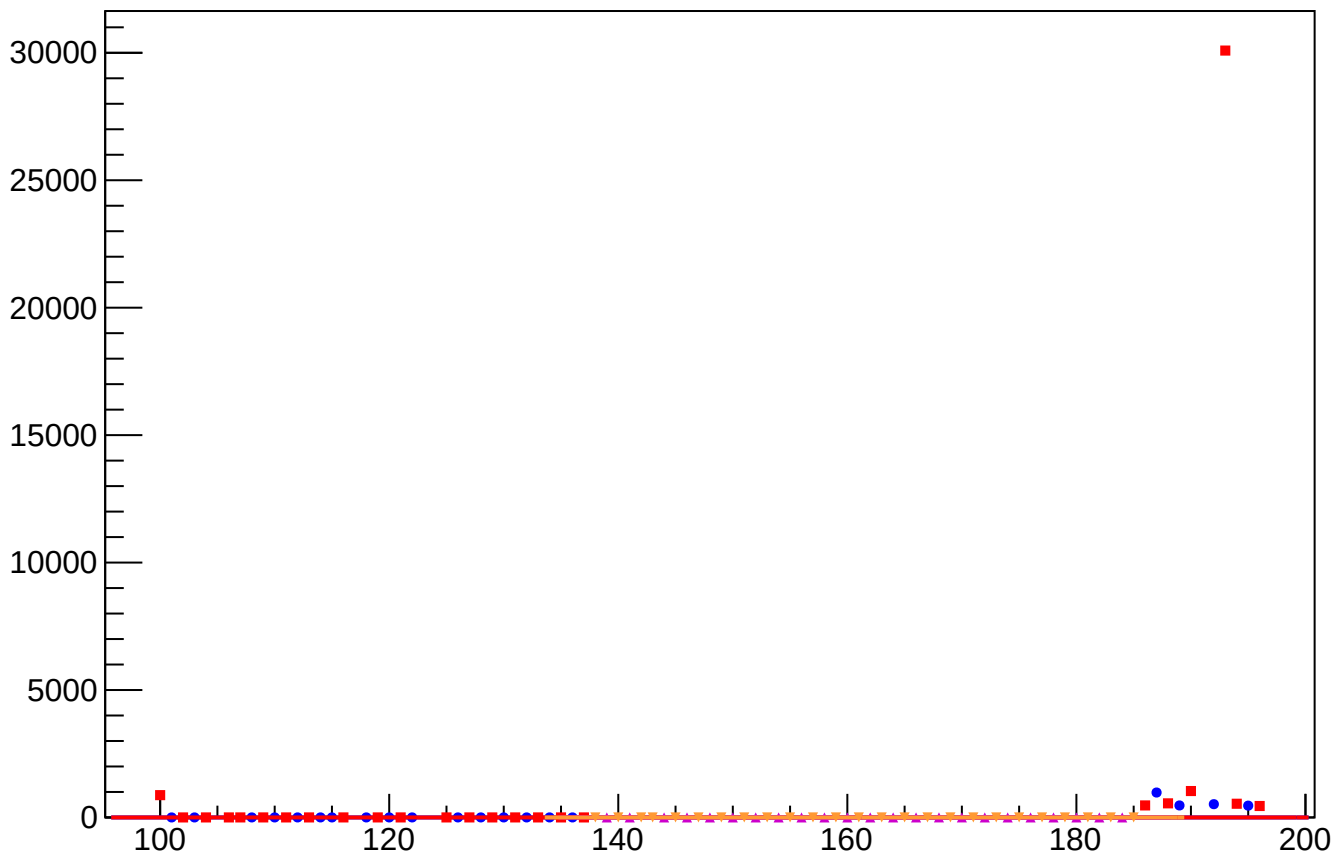
Right: -0.133 ± 0.363 χ^2/NDF : 42.0/43

In: -0.433 ± 0.306 χ^2/NDF : 48.0/42

Out: 0.103 ± 0.301 χ^2/NDF : 41.6/48

All: -0.160 ± 0.215 χ^2/NDF : 91.2/91

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152 $\pm$ 0.000 χ^2 /NDF: 2261792.4/19

Left Out: 1.404 $\pm$ 0.000 χ^2 /NDF:992478.0/24

Right Out: 1.260 $\pm$ 0.000 χ^2 /NDF: 3864223.9/23

Left In: 1.453 $\pm$ 0.000 χ^2 /NDF:995852.2/22

Left: 1.427 $\pm$ 0.000 χ^2 /NDF: 2005229.5/47

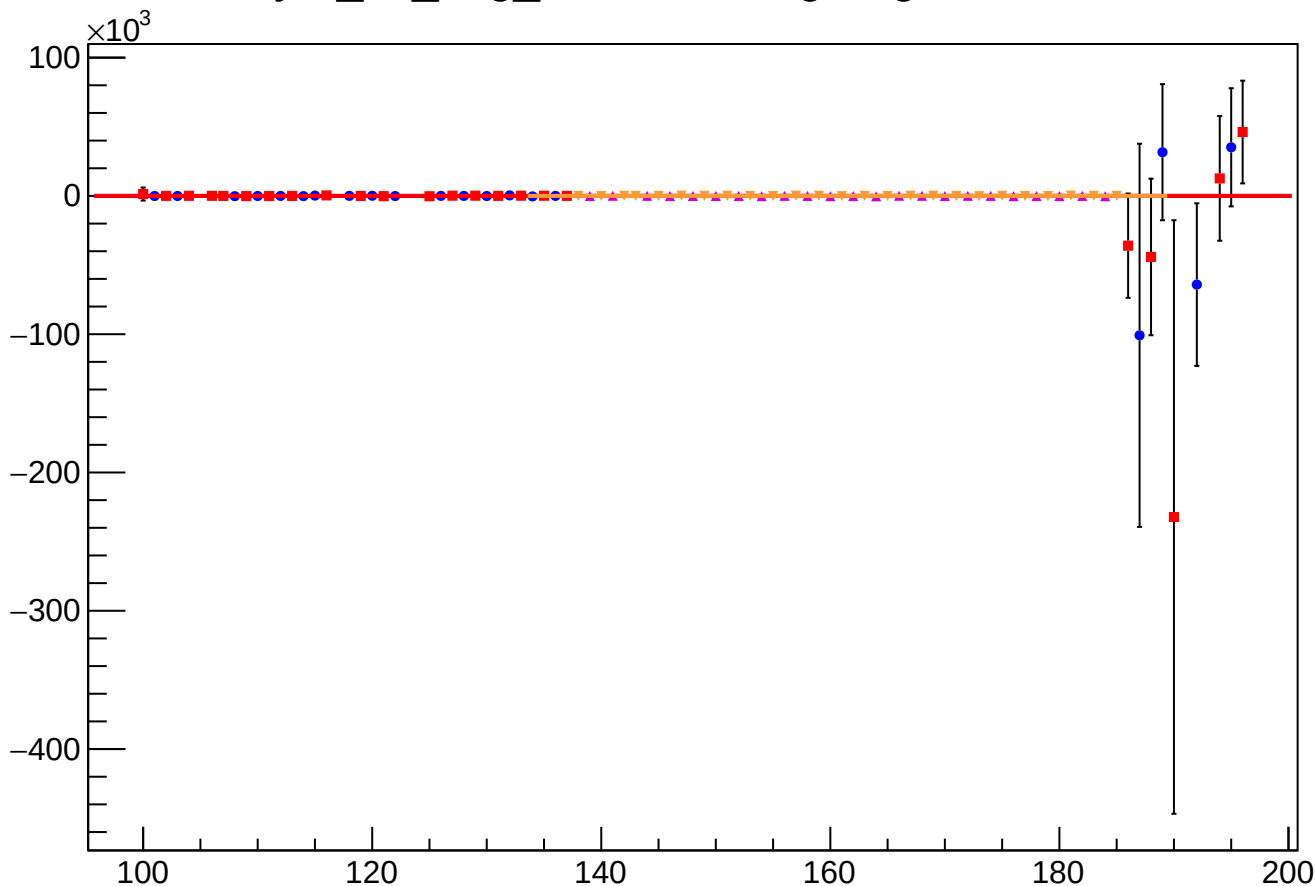
Right: 1.204 $\pm$ 0.000 χ^2 /NDF: 6169674.3/43

In: 1.341 $\pm$ 0.000 χ^2 /NDF:3708078.4/42

Out: 1.357 $\pm$ 0.000 χ^2 /NDF:4958190.6/48

All: 1.349 $\pm$ 0.000 χ^2 /NDF: 8668945.3/91

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.480 ± 30.040 $\chi^2/\text{NDF}: 19.0/19$

Left Out: 4.417 ± 20.966 $\chi^2/\text{NDF}: 22.1/24$

Right Out: 32.029 ± 30.500 $\chi^2/\text{NDF}: 21.1/22$

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

Left: -8.619 ± 15.041 $\chi^2/\text{NDF}: 45.3/47$

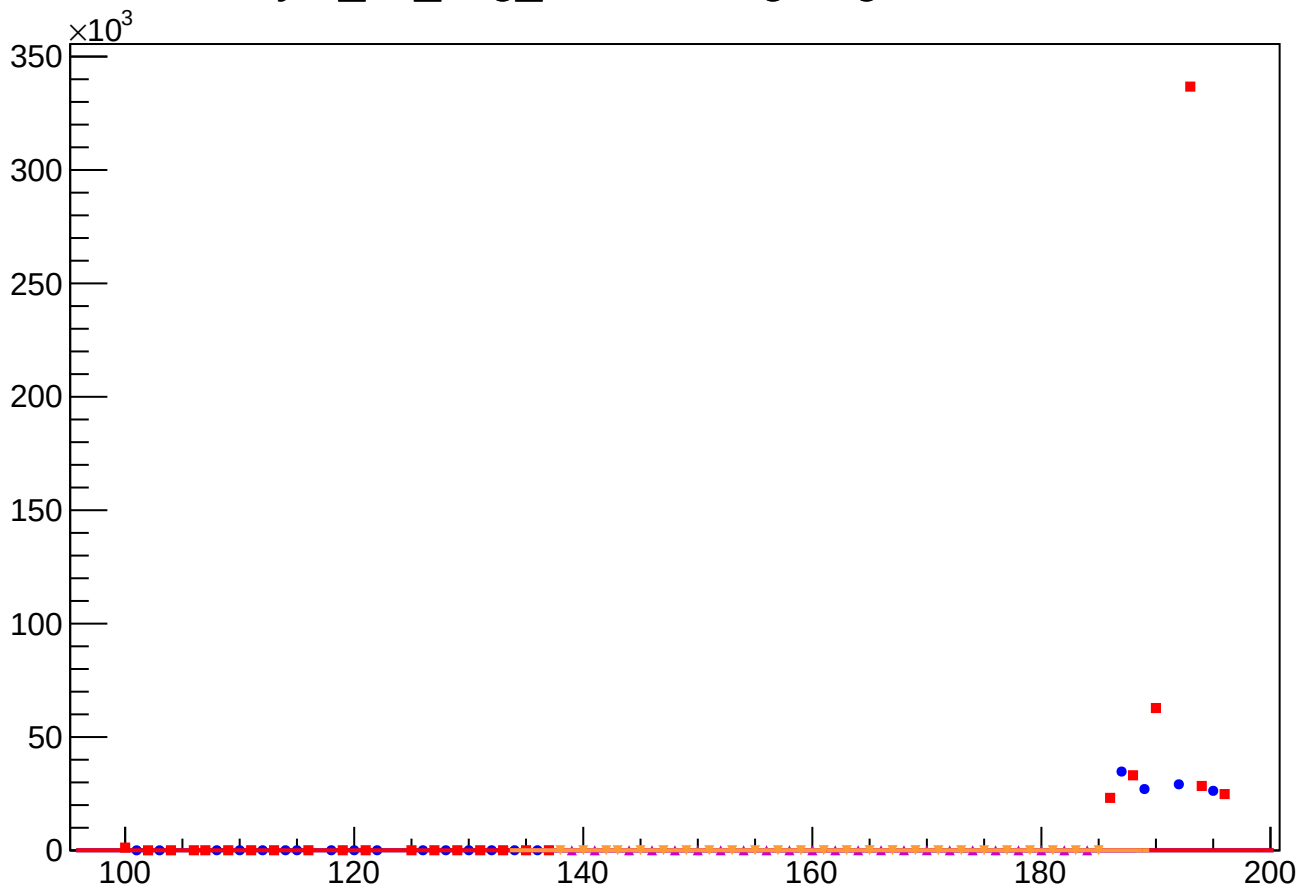
Right: 8.421 ± 21.402 $\chi^2/\text{NDF}: 41.3/42$

In: -19.732 ± 17.532 $\chi^2/\text{NDF}: 41.4/42$

Out: 13.278 ± 17.277 $\chi^2/\text{NDF}: 43.8/47$

All: -2.985 ± 12.306 $\chi^2/\text{NDF}: 87.0/90$

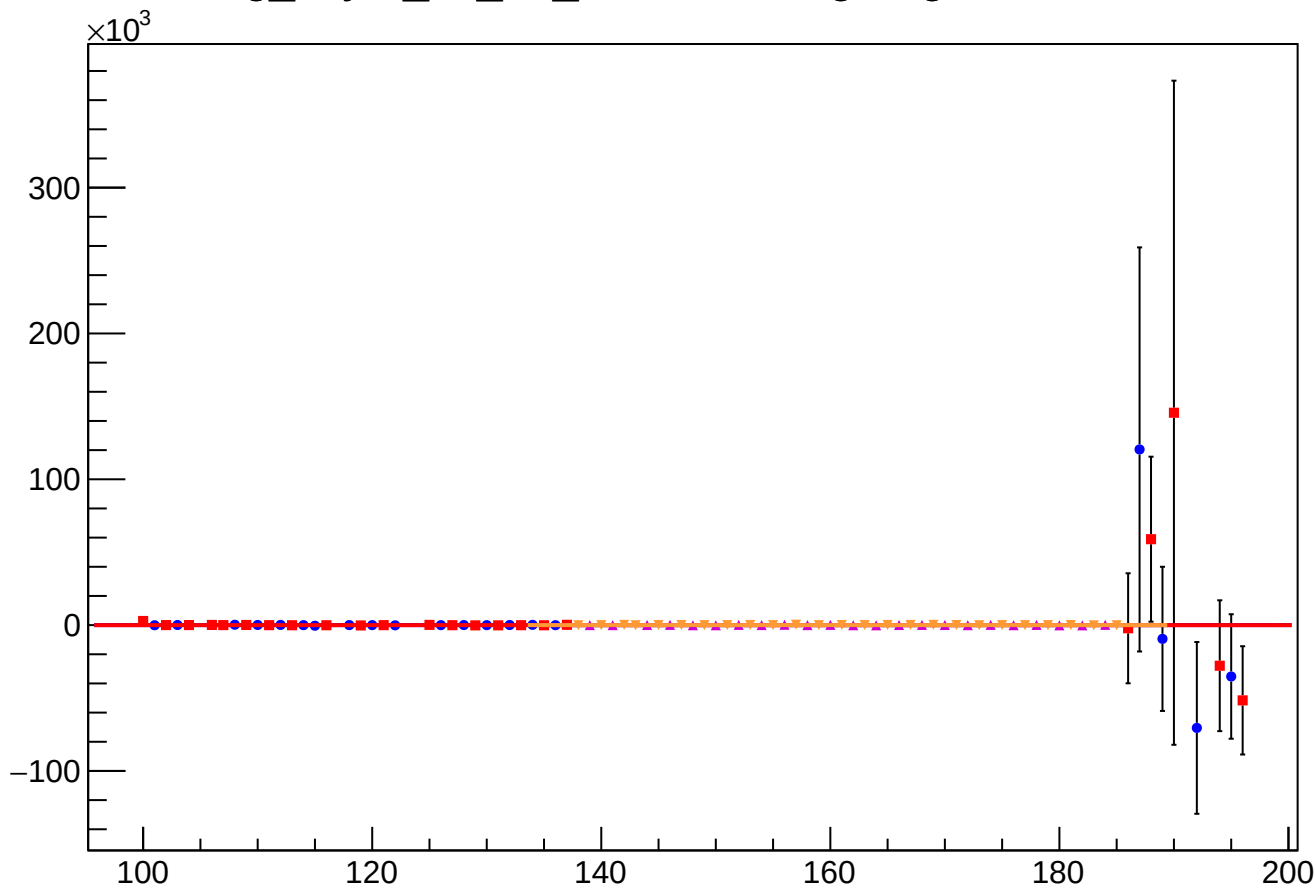
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.106 $\pm$ 0.021 χ^2 /NDF: 2395488.7/19
 Left Out: 89.510 $\pm$ 0.015 χ^2 /NDF: 471081.1/24
 Right Out: 79.431 $\pm$ 0.022 χ^2 /NDF: 3759019.8/23
 Left In: 89.622 $\pm$ 0.015 χ^2 /NDF: 509391.8/22

Left: 89.564 $\pm$ 0.011 χ^2 /NDF: 980500.8/47
 Right: 77.743 $\pm$ 0.015 χ^2 /NDF: 6166573.8/43
 In: 85.018 $\pm$ 0.012 χ^2 /NDF: 3171868.8/42
 Out: 86.275 $\pm$ 0.012 χ^2 /NDF: 4378423.7/48
 All: 85.656 $\pm$ 0.009 χ^2 /NDF: 7555511.5/91

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.080 ± 30.012 χ^2/NDF : 16.9/19

Left Out: 9.877 ± 20.965 χ^2/NDF : 18.5/24

Right Out: -25.803 ± 30.473 χ^2/NDF : 16.6/22

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

Left: 26.155 ± 15.042 χ^2/NDF : 51.2/47

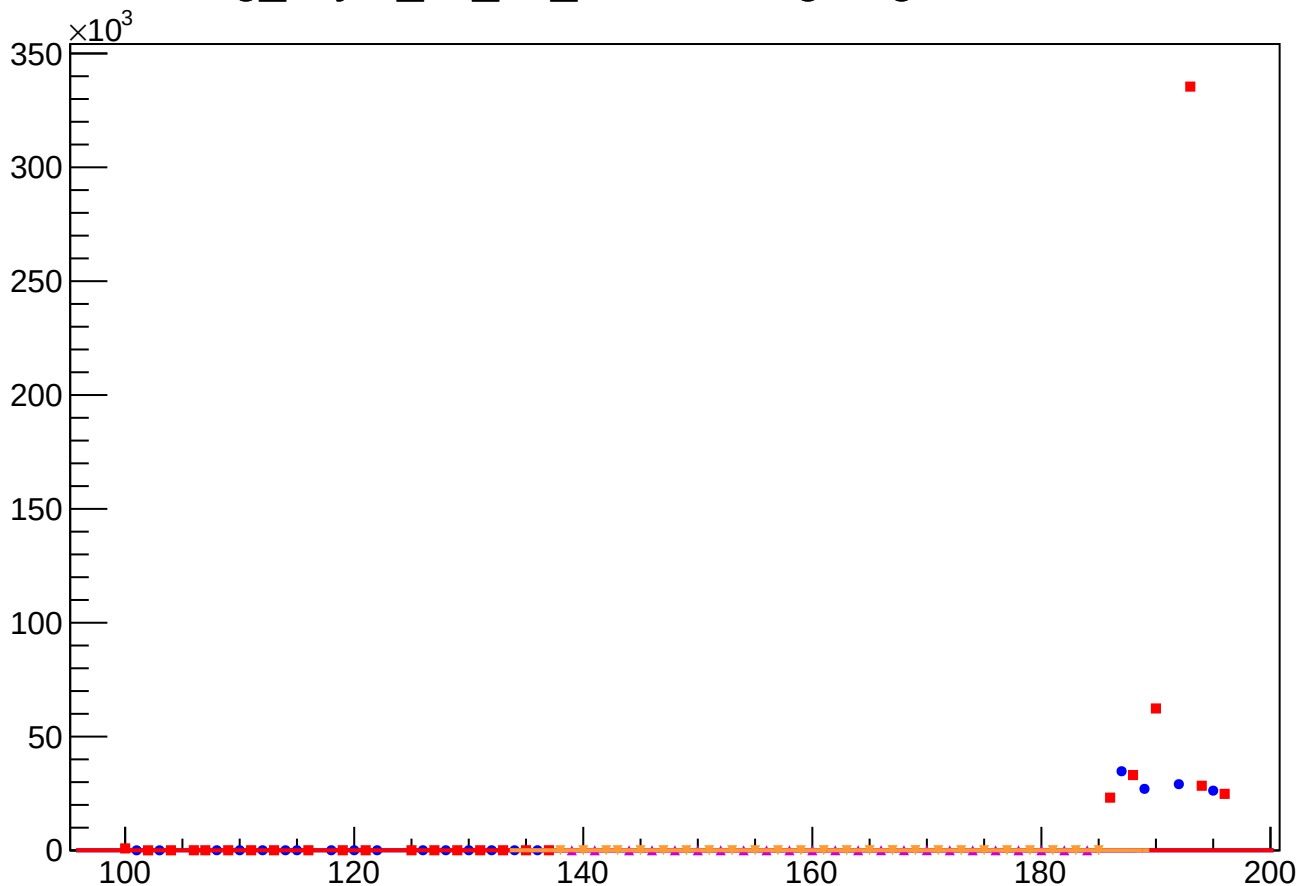
Right: -8.604 ± 21.383 χ^2/NDF : 34.1/42

In: 31.368 ± 17.528 χ^2/NDF : 49.3/42

Out: -1.585 ± 17.272 χ^2/NDF : 36.1/47

All: 14.649 ± 12.303 χ^2/NDF : 87.1/90

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.036 $\pm$ 0.021 χ^2 /NDF: 2394752.4/19

Left Out: 89.507 $\pm$ 0.015 χ^2 /NDF: 468988.9/24

Right Out: 79.379 $\pm$ 0.022 χ^2 /NDF: 3751966.4/23

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

Left: 89.566 $\pm$ 0.011 χ^2 /NDF: 980063.3/47

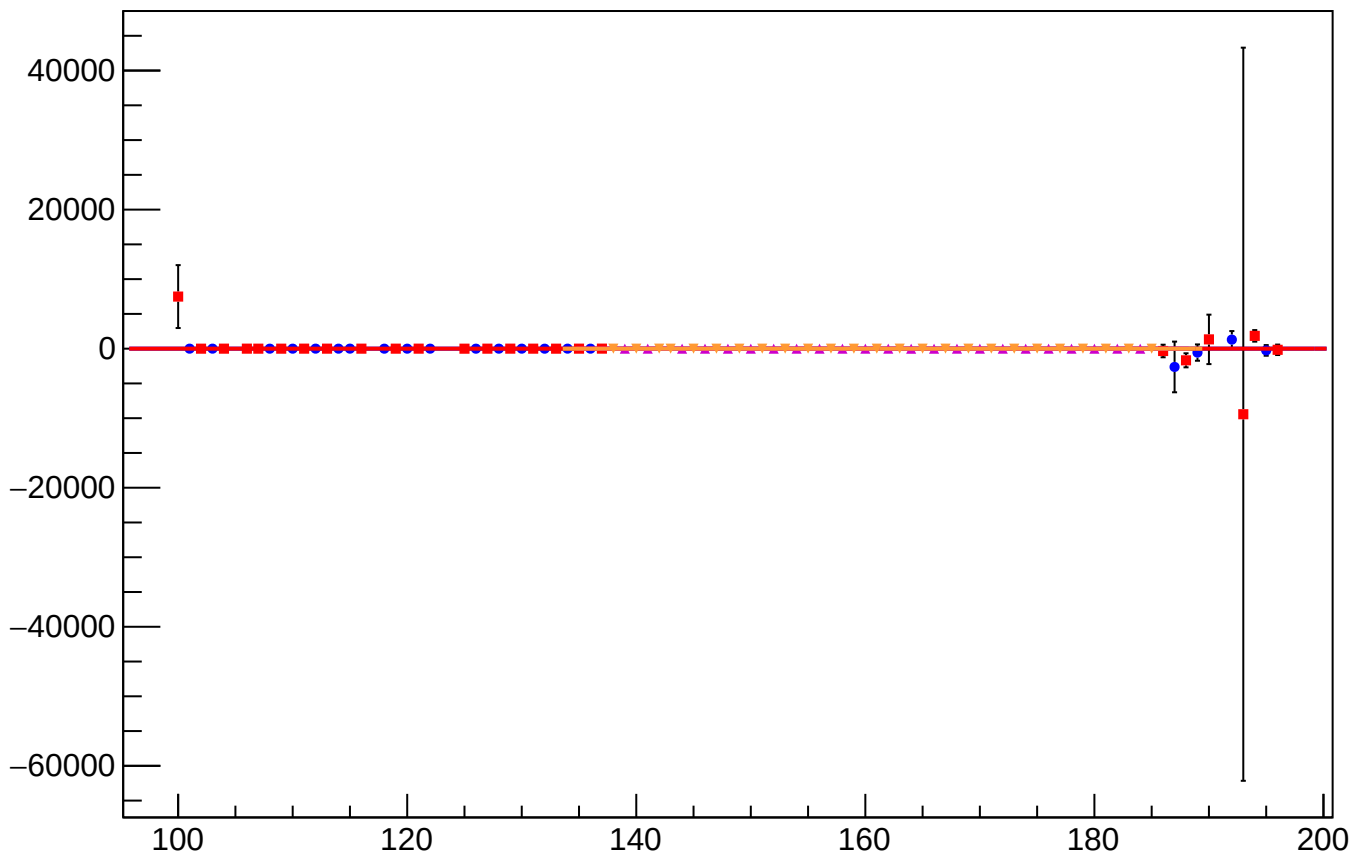
Right: 77.682 $\pm$ 0.015 χ^2 /NDF: 6158931.1/43

In: 84.992 $\pm$ 0.012 χ^2 /NDF: 3176049.4/42

Out: 86.253 $\pm$ 0.012 χ^2 /NDF: 4370926.6/48

All: 85.632 $\pm$ 0.009 χ^2 /NDF: 7552231.6/91

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 13.9/19$

Left Out: -0.517 ± 0.382 $\chi^2/\text{NDF}: 20.7/24$

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 21.5/23$

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

Left: -0.299 ± 0.273 $\chi^2/\text{NDF}: 41.7/47$

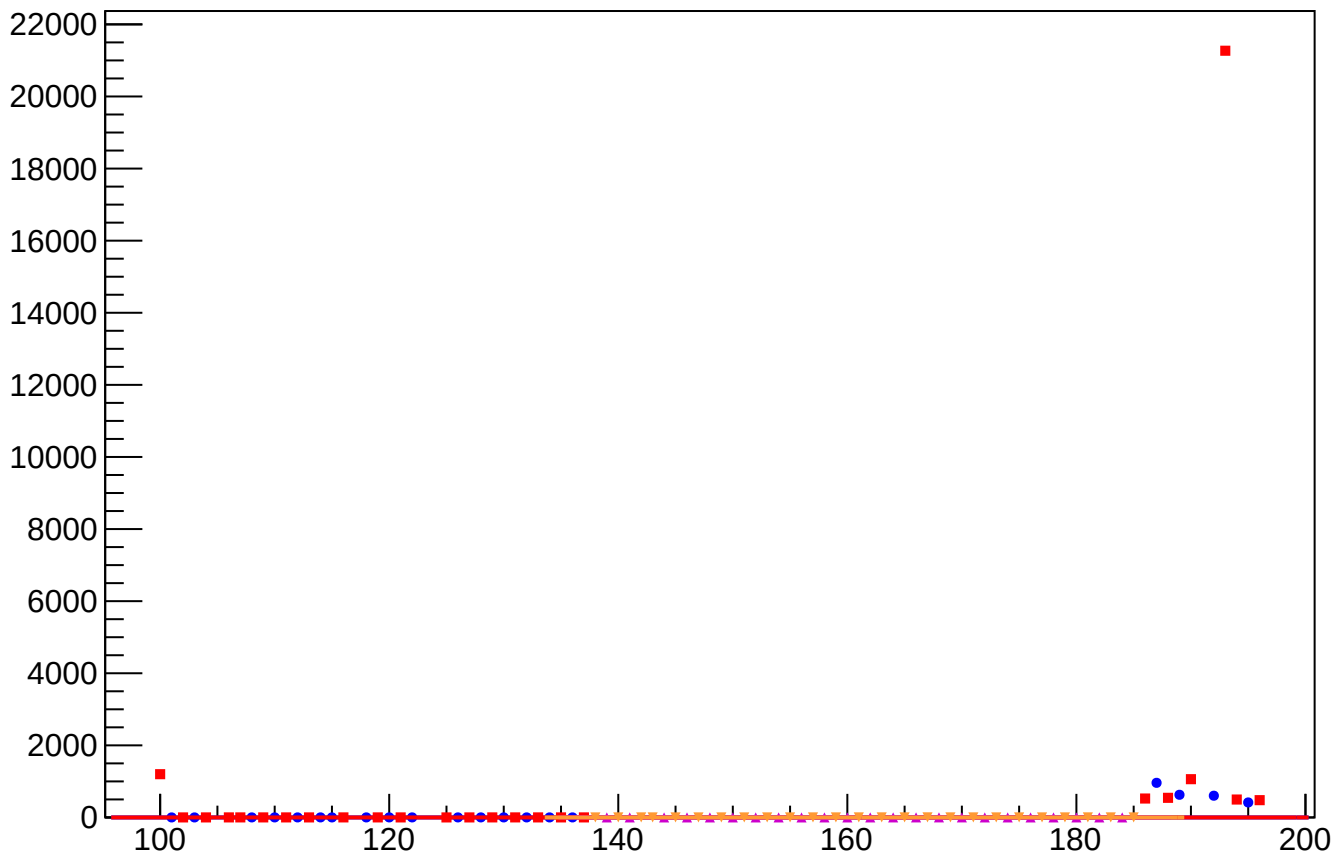
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 35.9/43$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 36.4/42$

Out: -0.235 ± 0.314 $\chi^2/\text{NDF}: 43.8/48$

All: 0.015 ± 0.222 $\chi^2/\text{NDF}: 81.5/91$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 2403279.4/19

Left Out: 1.472+/-0.000 χ^2/NDF :1156063.1/24

Right Out: 1.316+/-0.000 χ^2/NDF : 3808623.0/23

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

Left: 1.467+/-0.000 χ^2/NDF : 2205449.5/47

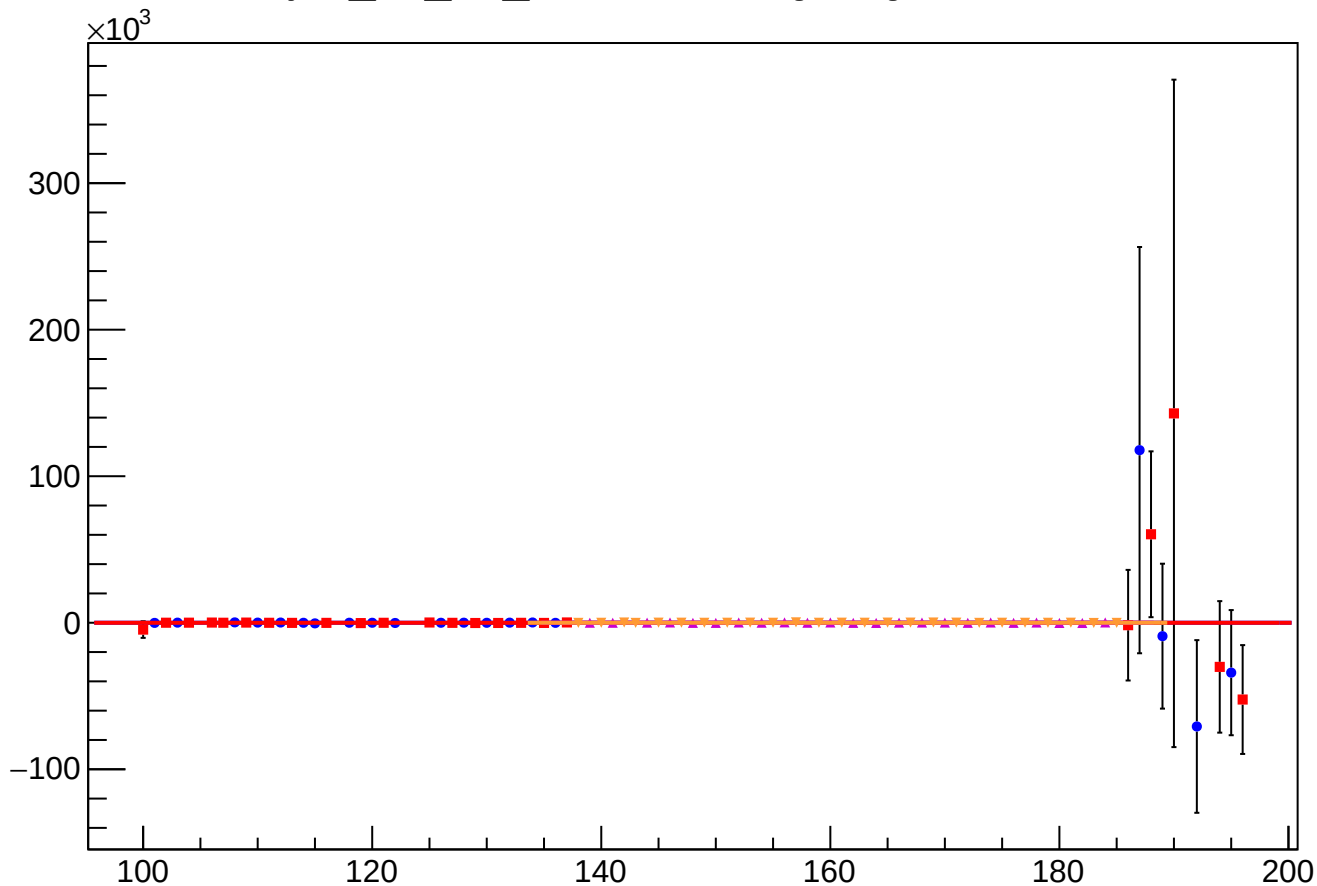
Right: 1.274+/-0.000 χ^2/NDF : 6235295.1/43

In: 1.381+/-0.000 χ^2/NDF :3690010.1/42

Out: 1.421+/-0.000 χ^2/NDF :5073745.9/48

All: 1.401+/-0.000 χ^2/NDF : 8779979.3/91

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.373 ± 30.020 χ^2/NDF : 16.7/19

Left Out: 10.423 ± 20.971 χ^2/NDF : 18.4/24

Right Out: -26.414 ± 30.482 χ^2/NDF : 17.0/22

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

Left: 26.670 ± 15.046 χ^2/NDF : 50.7/47

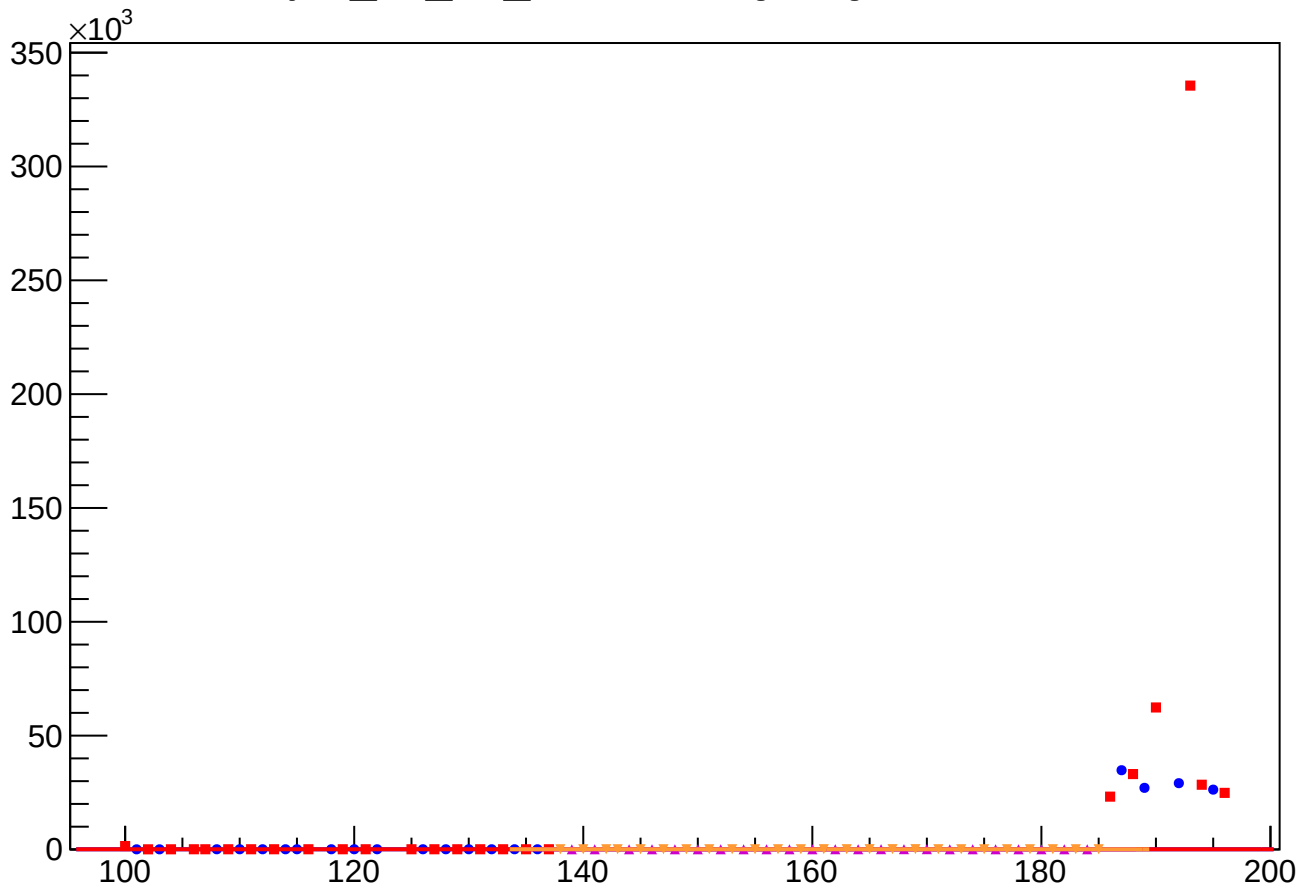
Right: -9.263 ± 21.389 χ^2/NDF : 34.3/42

In: 31.443 ± 17.533 χ^2/NDF : 48.8/42

Out: -1.411 ± 17.277 χ^2/NDF : 36.3/47

All: 14.774 ± 12.306 χ^2/NDF : 86.9/90

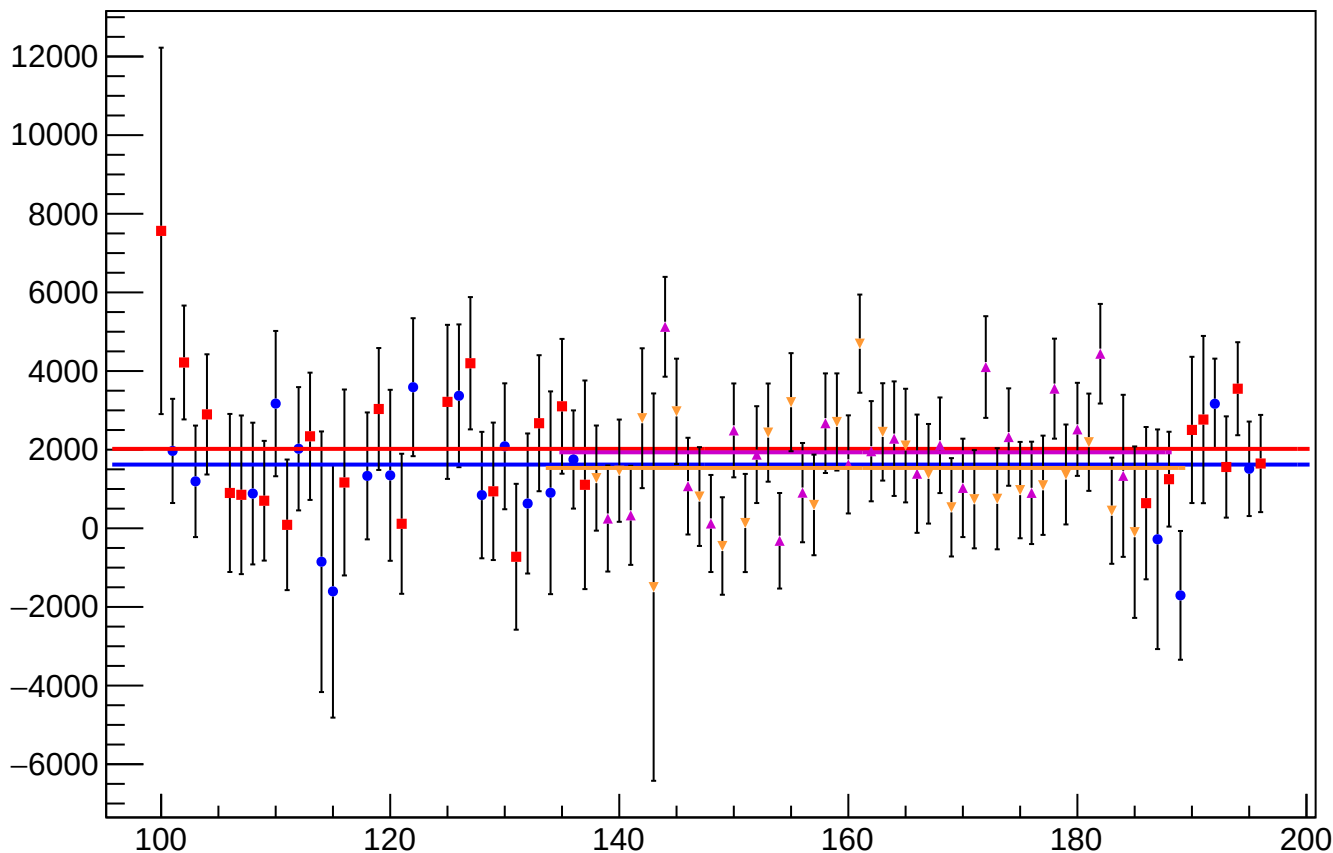
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.057 ± 0.021 $\chi^2/\text{NDF}: 2394800.7/19$
 Left Out: 89.535 ± 0.015 $\chi^2/\text{NDF}: 469743.0/24$
 Right Out: 79.375 ± 0.022 $\chi^2/\text{NDF}: 3761237.9/23$
 Left In: 89.655 ± 0.015 $\chi^2/\text{NDF}: 511848.9/22$

Left: 89.593 ± 0.011 $\chi^2/\text{NDF}: 981623.6/47$
 Right: 77.691 ± 0.015 $\chi^2/\text{NDF}: 6168070.2/43$
 In: 85.016 ± 0.012 $\chi^2/\text{NDF}: 3177000.3/42$
 Out: 86.271 ± 0.012 $\chi^2/\text{NDF}: 4381770.2/48$
 All: 85.653 ± 0.009 $\chi^2/\text{NDF}: 7563964.5/91$

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1620.987 $\pm$ 369.577 χ^2/NDF : 12.0/19

Left Out: 1535.246 $\pm$ 265.882 χ^2/NDF : 20.4/24

Right Out: 2020.358 $\pm$ 333.089 χ^2/NDF : 16.8/24

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

Left: 1732.540 $\pm$ 188.753 χ^2/NDF : 48.5/47

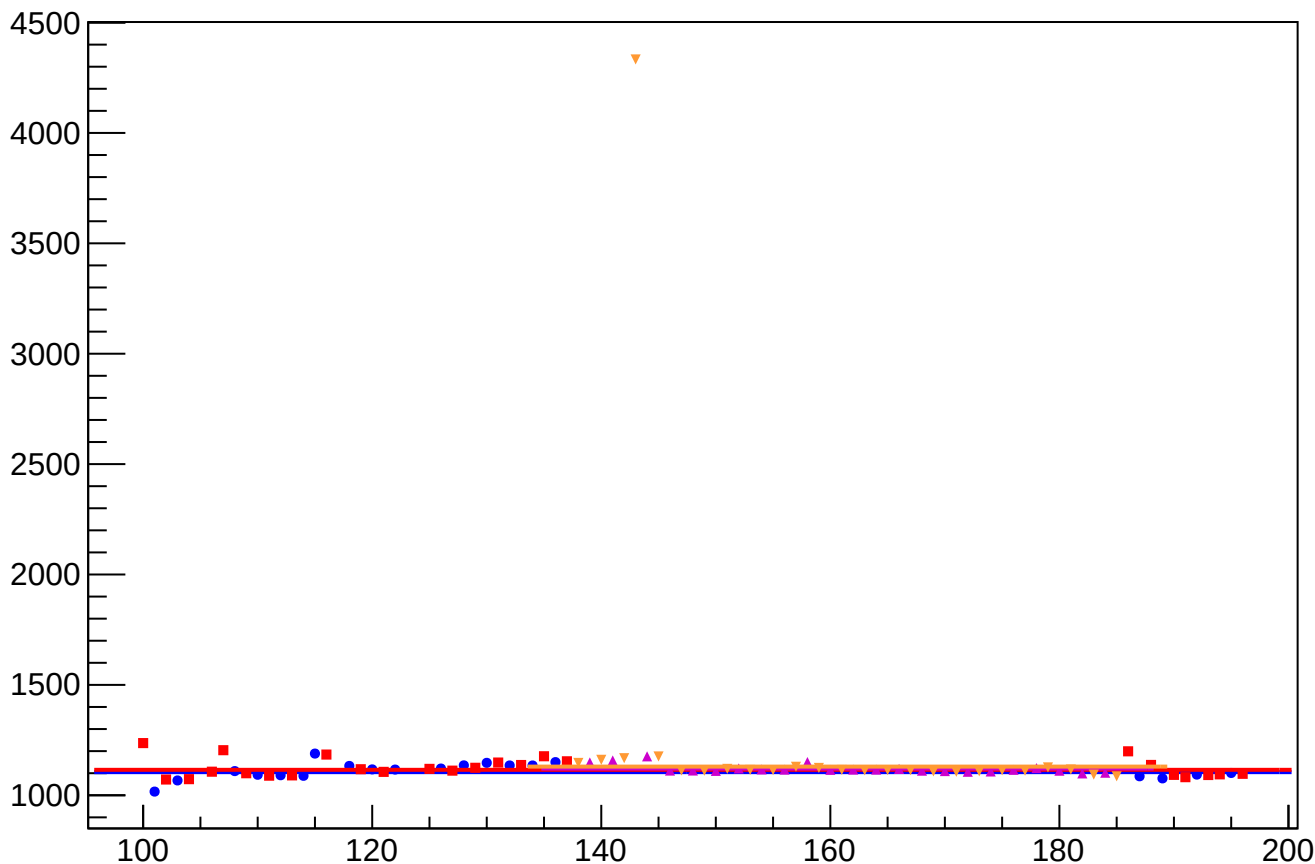
Right: 1841.355 $\pm$ 247.427 χ^2/NDF : 29.5/44

In: 1825.468 $\pm$ 216.963 χ^2/NDF : 39.5/42

Out: 1724.047 $\pm$ 207.798 χ^2/NDF : 38.5/49

All: 1772.570 $\pm$ 150.071 χ^2/NDF : 78.1/92

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1104.755+/-0.261 χ^2/NDF : 19343.2/19

Left Out: 1129.901+/-0.188 χ^2/NDF : 858259.9/24

Right Out: 1115.288+/-0.236 χ^2/NDF : 22530.7/24

Left In: 1120.991+/-0.190 χ^2/NDF : 9641.8/22

Left: 1125.481+/-0.133 χ^2/NDF : 869015.8/47

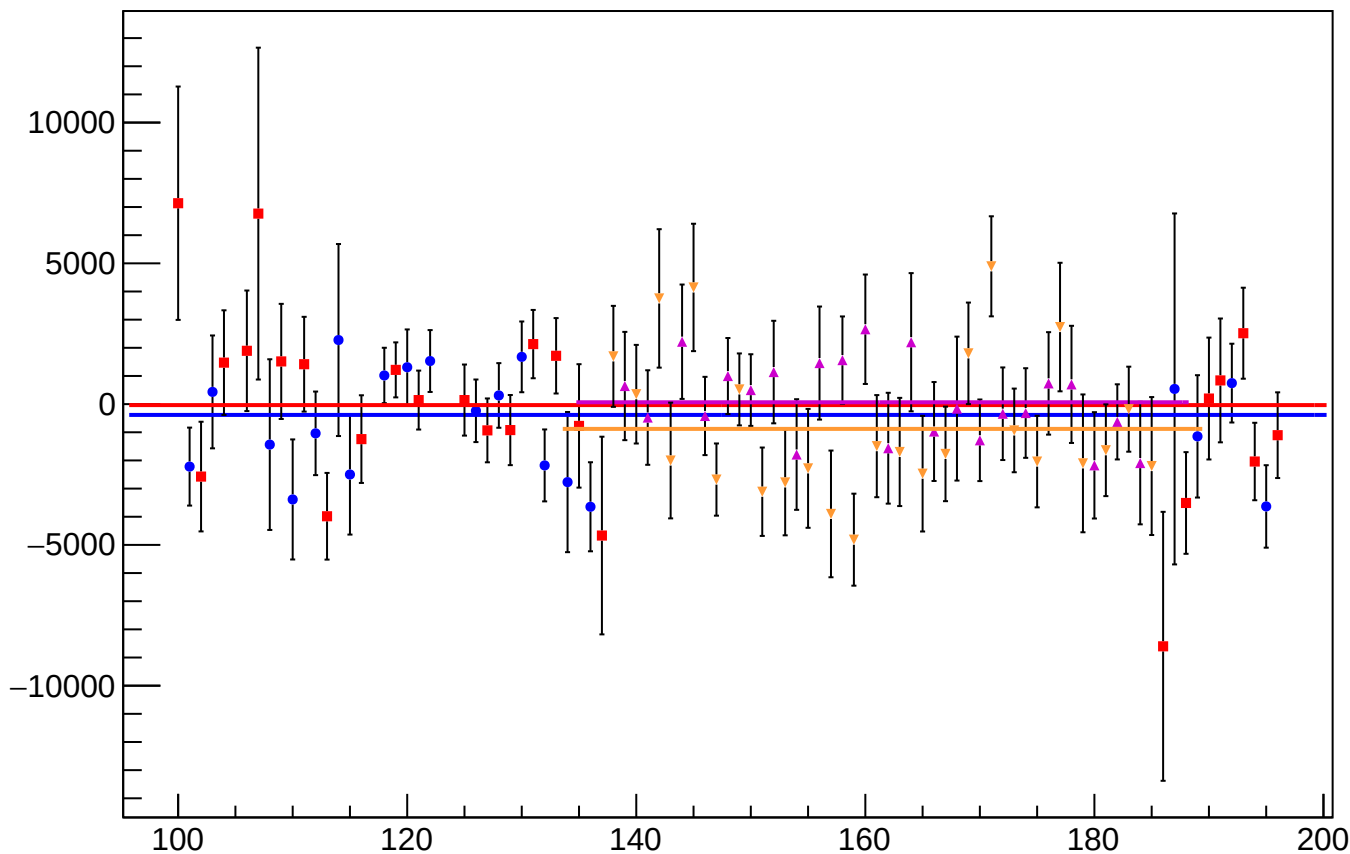
Right: 1110.567+/-0.175 χ^2/NDF : 42770.3/44

In: 1115.395+/-0.153 χ^2/NDF : 31514.6/42

Out: 1124.214+/-0.147 χ^2/NDF : 883141.8/49

All: 1119.995+/-0.106 χ^2/NDF : 916379.7/92

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -383.571 ± 335.816 $\chi^2/\text{NDF}: 28.4/19$

Left Out: -879.685 ± 355.692 $\chi^2/\text{NDF}: 43.5/24$

Right Out: -34.458 ± 317.244 $\chi^2/\text{NDF}: 37.8/24$

Left In: 65.738 ± 358.785 $\chi^2/\text{NDF}: 12.1/22$

Left: -411.067 ± 252.599 $\chi^2/\text{NDF}: 59.2/47$

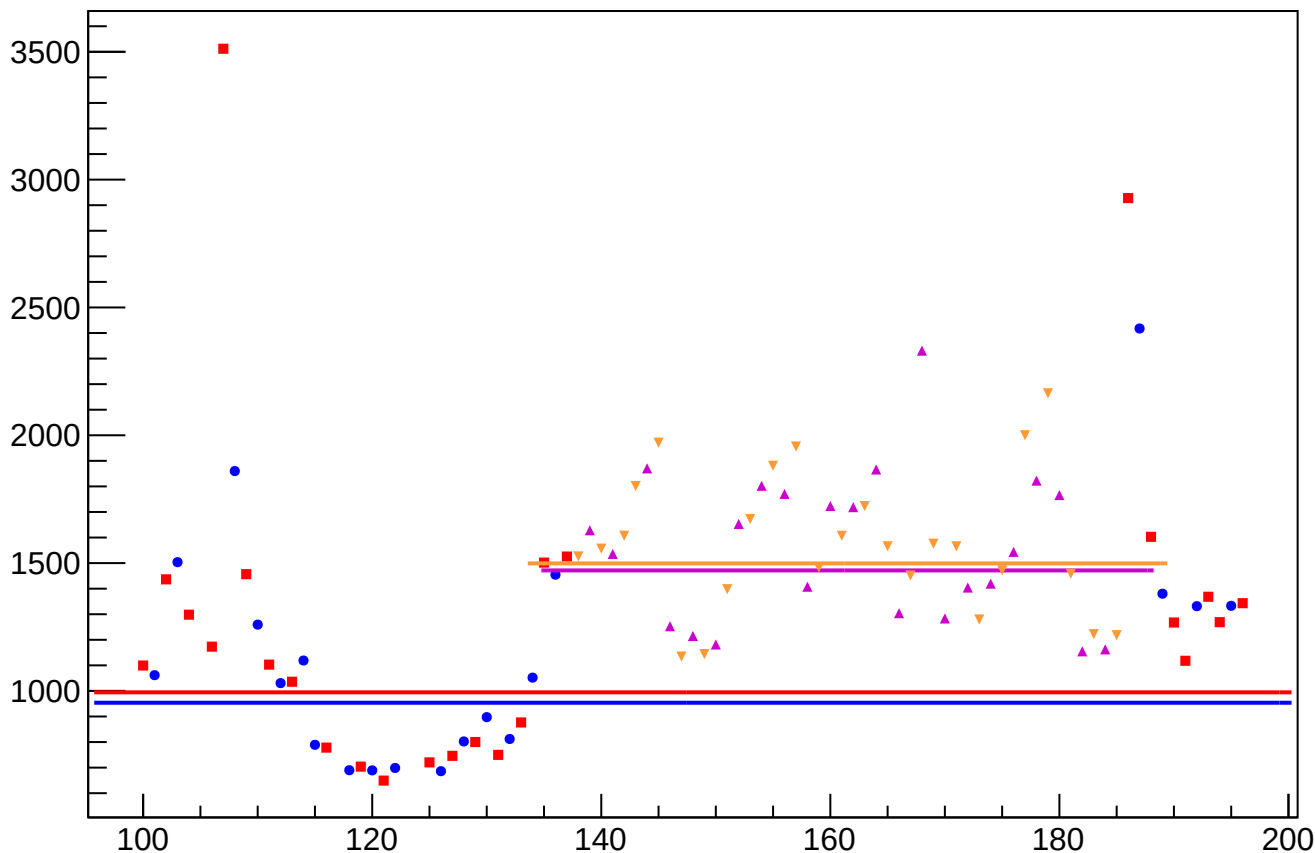
Right: -199.094 ± 230.612 $\chi^2/\text{NDF}: 66.8/44$

In: -173.758 ± 245.176 $\chi^2/\text{NDF}: 41.4/42$

Out: -408.937 ± 236.756 $\chi^2/\text{NDF}: 84.5/49$

All: -295.455 ± 170.311 $\chi^2/\text{NDF}: 126.3/92$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 953.850 $\pm$ 0.237 χ^2/NDF : 1584560.7/19

Left Out: 1498.849 $\pm$ 0.252 χ^2/NDF : 1053906.2/24

Right Out: 994.488 $\pm$ 0.224 χ^2/NDF : 2455001.3/24

Left In: 1471.394 $\pm$ 0.254 χ^2/NDF : 1105310.5/22

Left: 1485.240 $\pm$ 0.179 χ^2/NDF : 2165123.0/47

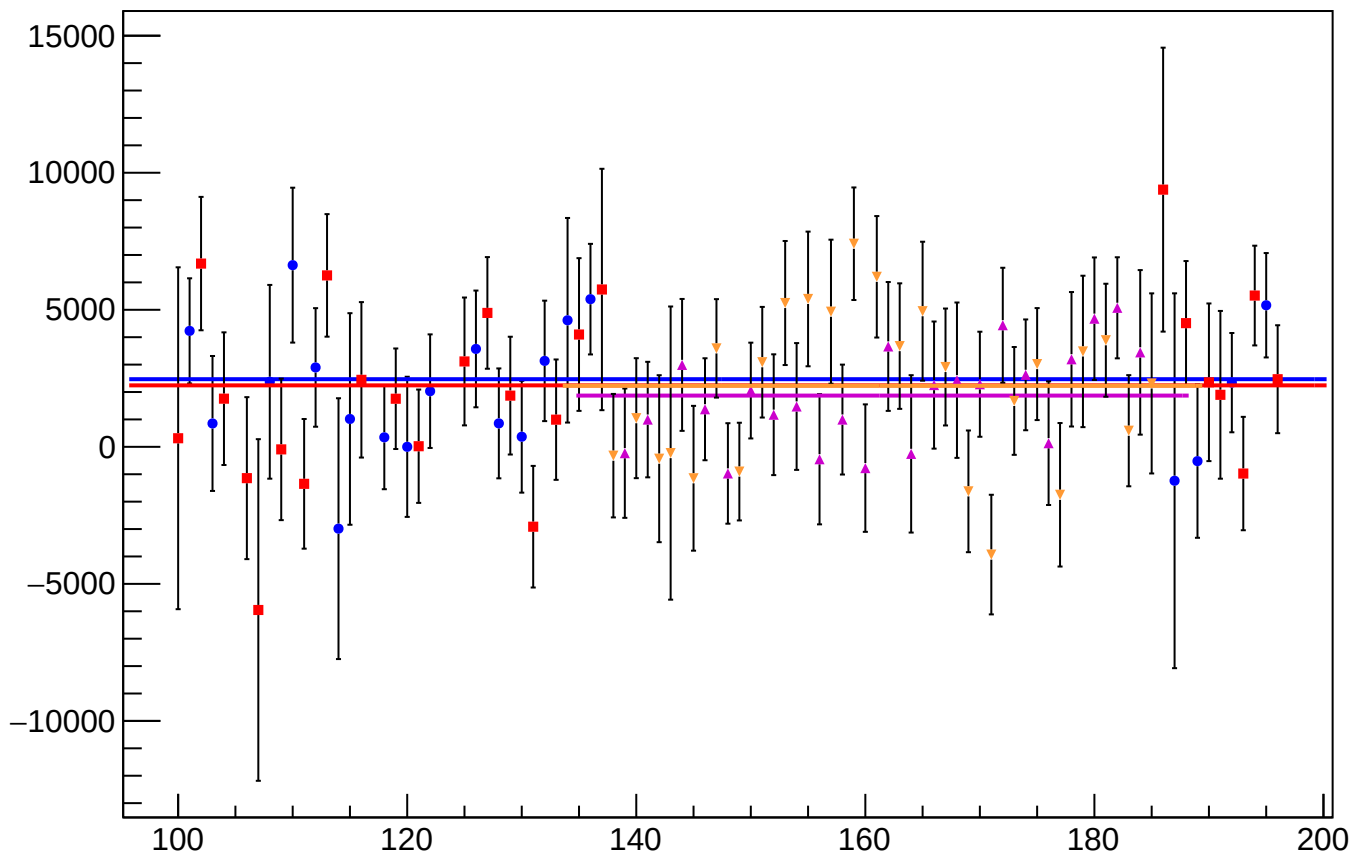
Right: 975.324 $\pm$ 0.163 χ^2/NDF : 4055037.6/44

In: 1195.526 $\pm$ 0.173 χ^2/NDF : 4908103.3/42

Out: 1217.945 $\pm$ 0.167 χ^2/NDF : 5748557.9/49

All: 1207.128 $\pm$ 0.120 χ^2/NDF : 10665314.6/99

asym_usl_mean vs Slug, Sign Corrected



Right In: 2468.016 $\pm$ 527.363 χ^2 /NDF: 15.1/19

Left Out: 2226.533 $\pm$ 454.821 χ^2 /NDF:38.8/24

Right Out: 2242.625 $\pm$ 489.351 χ^2 /NDF: 31.3/24

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

Left: 2048.415 $\pm$ 321.834 χ^2 /NDF: 54.0/47

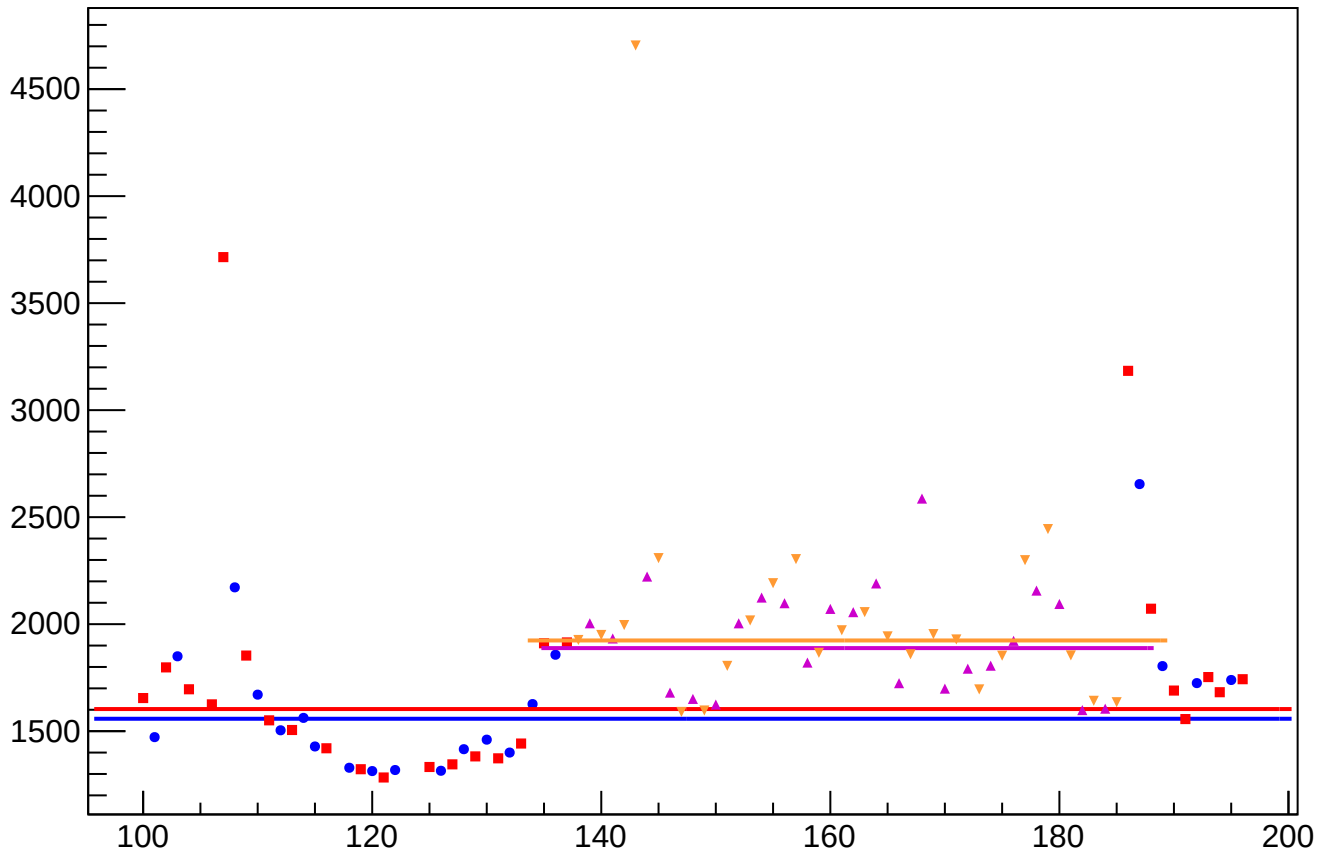
Right: 2346.906 $\pm$ 358.710 χ^2 /NDF: 46.5/44

In: 2125.374 $\pm$ 344.702 χ^2 /NDF:30.7/42

Out: 2233.992 $\pm$ 333.146 χ^2 /NDF:70.1/49

All: 2181.534 $\pm$ 239.551 χ^2 /NDF: 100.9/92

asym_usl_rms vs Slug, Sign Corrected



Right In: 1557.986 $\pm$ 0.373 χ^2 /NDF: 370981.0/19

Left Out: 1923.833 $\pm$ 0.322 χ^2 /NDF: 1006152.2/24

Right Out: 1603.355 $\pm$ 0.346 χ^2 /NDF: 817643.7/24

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

Left: 1906.002 $\pm$ 0.228 χ^2 /NDF: 1516877.3/47

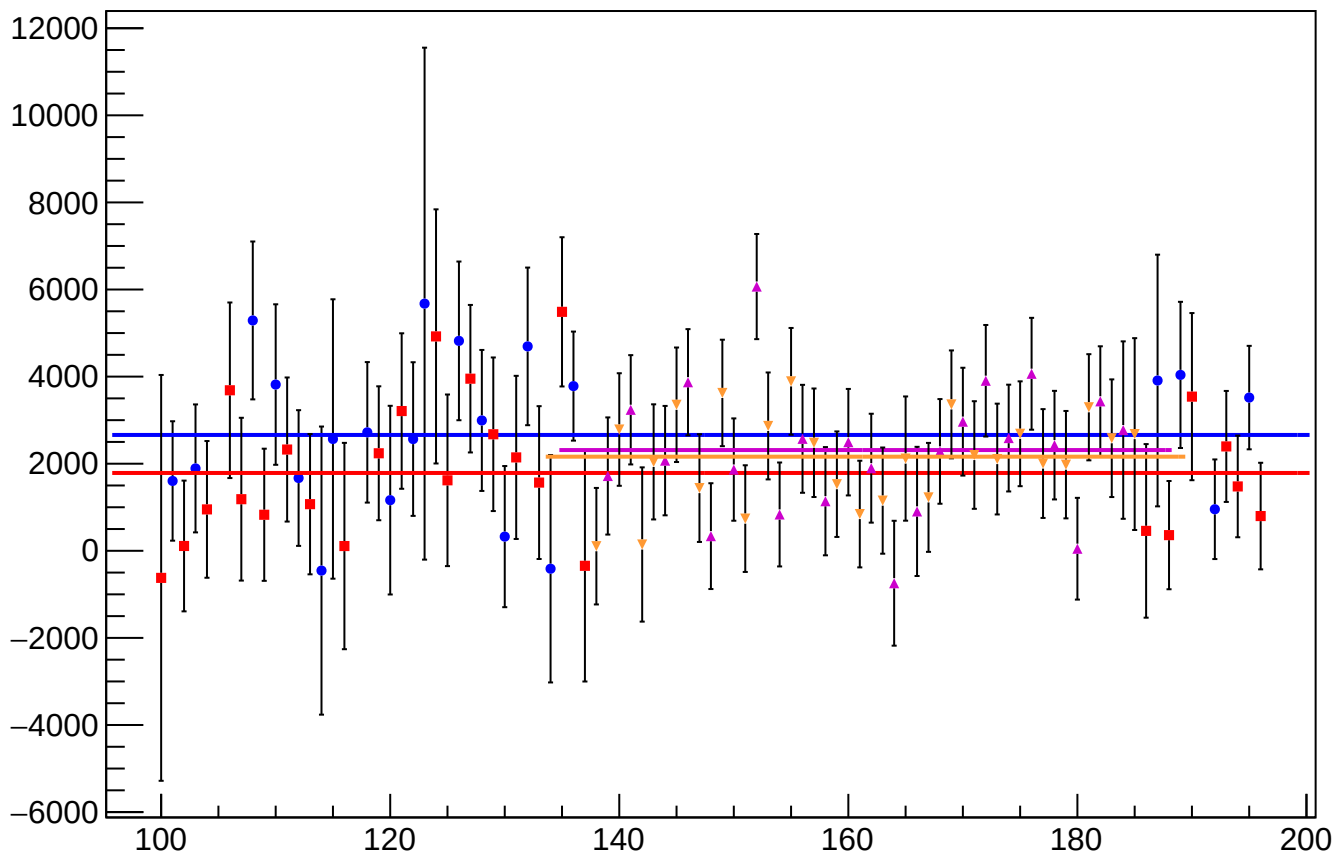
Right: 1582.364 $\pm$ 0.254 χ^2 /NDF: 1196578.6/44

In: 1747.076 $\pm$ 0.244 χ^2 /NDF: 1324472.3/42

Out: 1775.299 $\pm$ 0.236 χ^2 /NDF: 2284026.1/49

All: 1761.668 $\pm$ 0.169 χ^2 /NDF: 3615430.6/92

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2660.467 $\pm$ 371.570 χ^2 /NDF: 16.0/20

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

Right Out: 1787.455 $\pm$ 336.082 χ^2 /NDF: 16.7/24

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

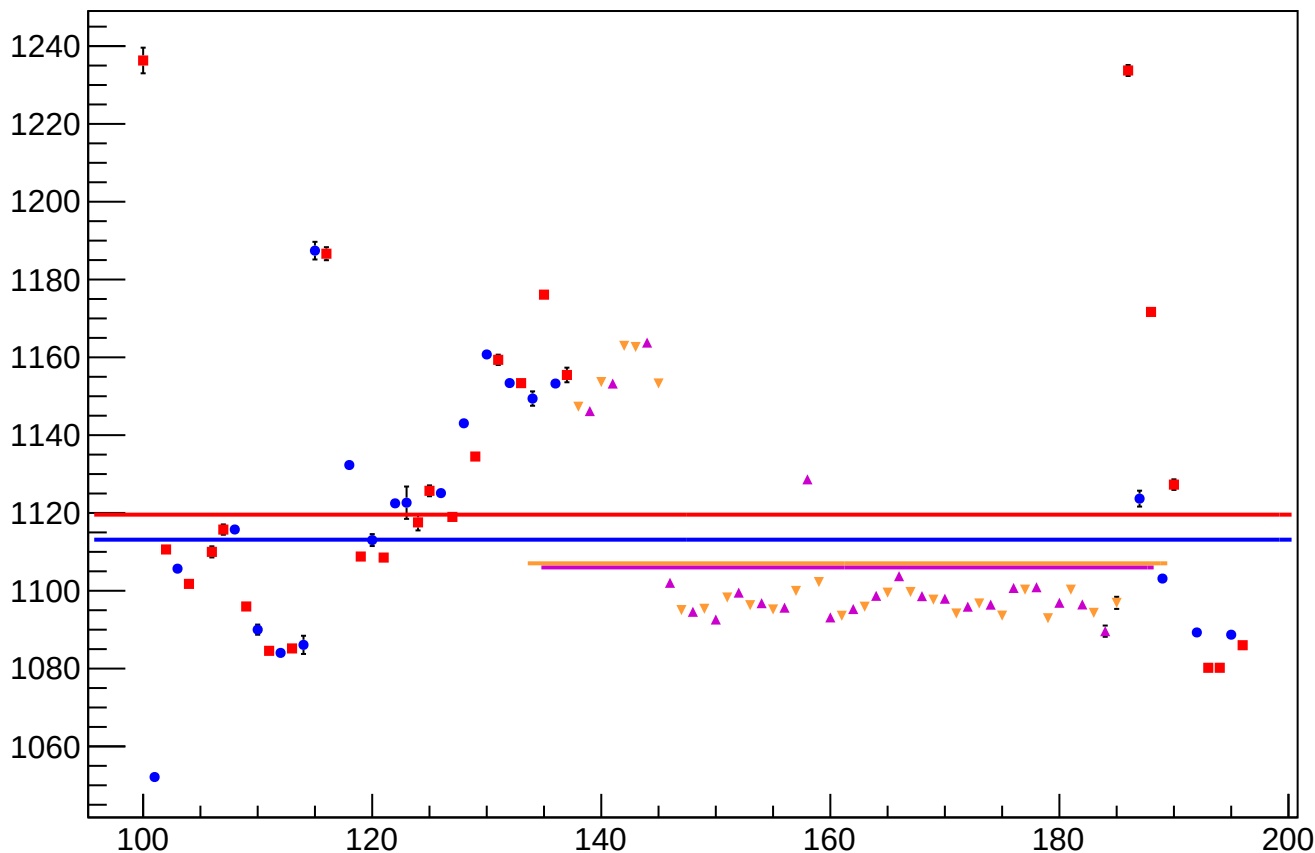
Right: 2180.290 $\pm$ 249.250 χ^2 /NDF: 35.7/45

In: 2430.149 $\pm$ 215.443 χ^2 /NDF:47.8/43

Out: 2023.085 $\pm$ 204.410 χ^2 /NDF:32.5/49

All: 2215.928 $\pm$ 148.287 χ^2 /NDF: 82.2/93

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1113.134+/-0.263 χ^2/NDF : 14315.6/20

Left Out: 1107.057+/-0.182 χ^2/NDF : 15175.6/24

Right Out: 1119.568+/-0.238 χ^2/NDF : 25854.2/24

Left In: 1105.997+/-0.187 χ^2/NDF : 11551.3/22

Left: 1106.541+/-0.130 χ^2/NDF : 26743.4/47

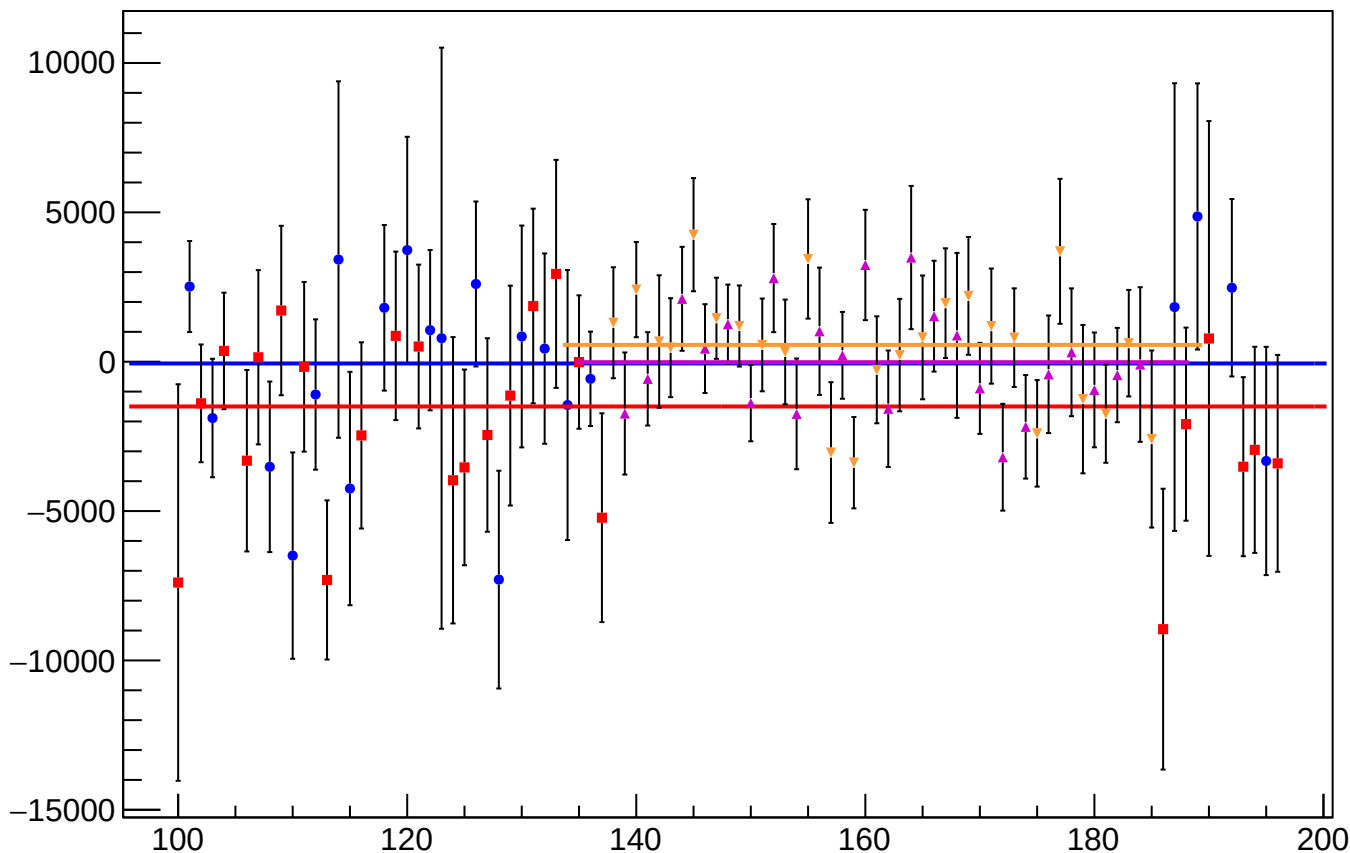
Right: 1116.673+/-0.176 χ^2/NDF : 40499.7/45

In: 1108.396+/-0.152 χ^2/NDF : 26356.9/43

Out: 1111.685+/-0.145 χ^2/NDF : 42776.3/49

All: 1110.127+/-0.105 χ^2/NDF : 69378.5/93

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -58.467 ± 623.860 χ^2/NDF : 19.8/20

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

Right Out: -1498.270 ± 608.334 χ^2/NDF : 18.3/24

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

Left: 278.615 ± 257.275 χ^2/NDF : 48.2/47

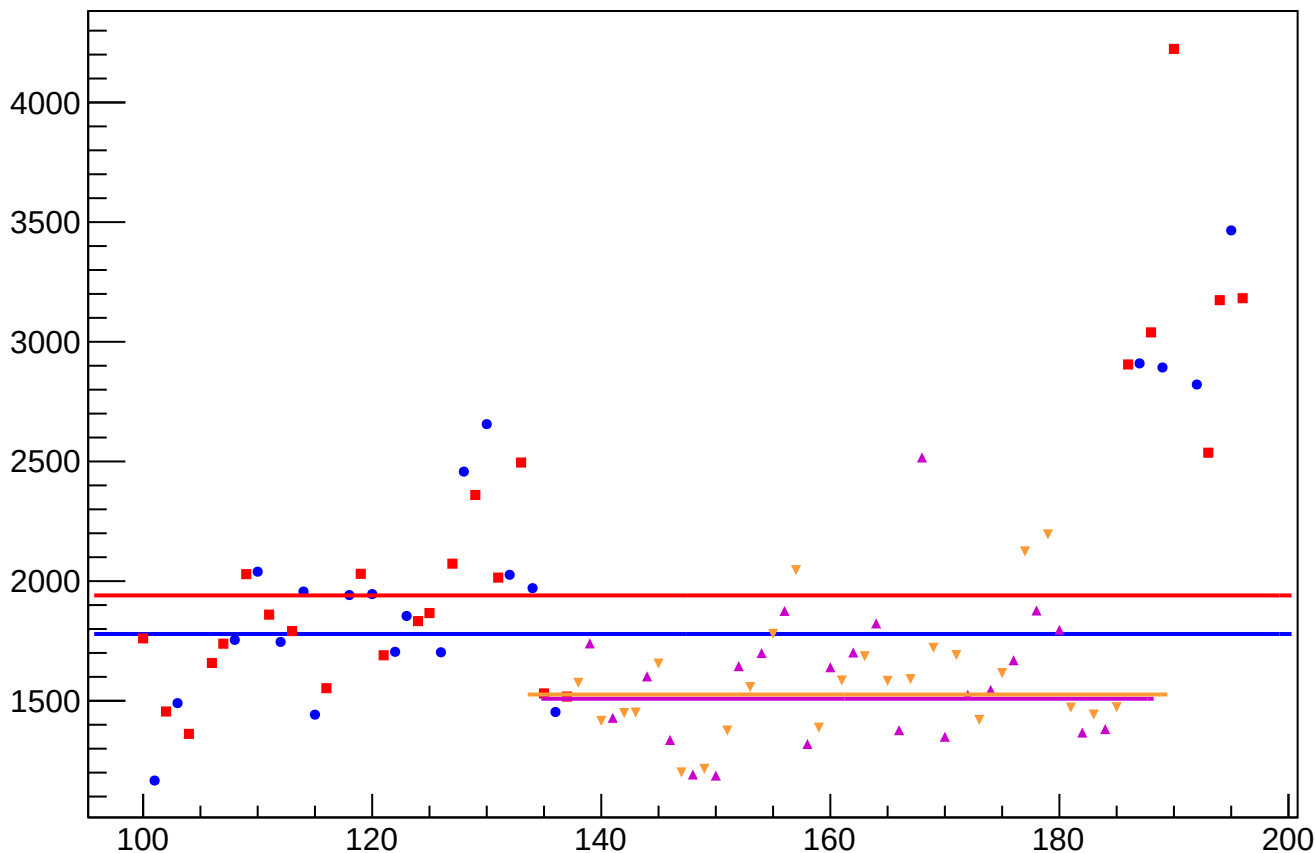
Right: -796.507 ± 435.543 χ^2/NDF : 40.8/45

In: -26.555 ± 316.231 χ^2/NDF : 40.0/43

Out: 26.592 ± 310.389 χ^2/NDF : 53.5/49

All: 0.514 ± 221.515 χ^2/NDF : 93.5/93

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1779.205 ± 0.441 $\chi^2/\text{NDF}: 1495868.7/20$

Left Out: 1526.391 ± 0.255 $\chi^2/\text{NDF}: 753714.4/24$

Right Out: 1940.191 ± 0.430 $\chi^2/\text{NDF}: 1637587.2/24$

Left In: 1508.581 ± 0.259 $\chi^2/\text{NDF}: 931684.8/22$

Left: 1517.632 ± 0.182 $\chi^2/\text{NDF}: 1687794.7/47$

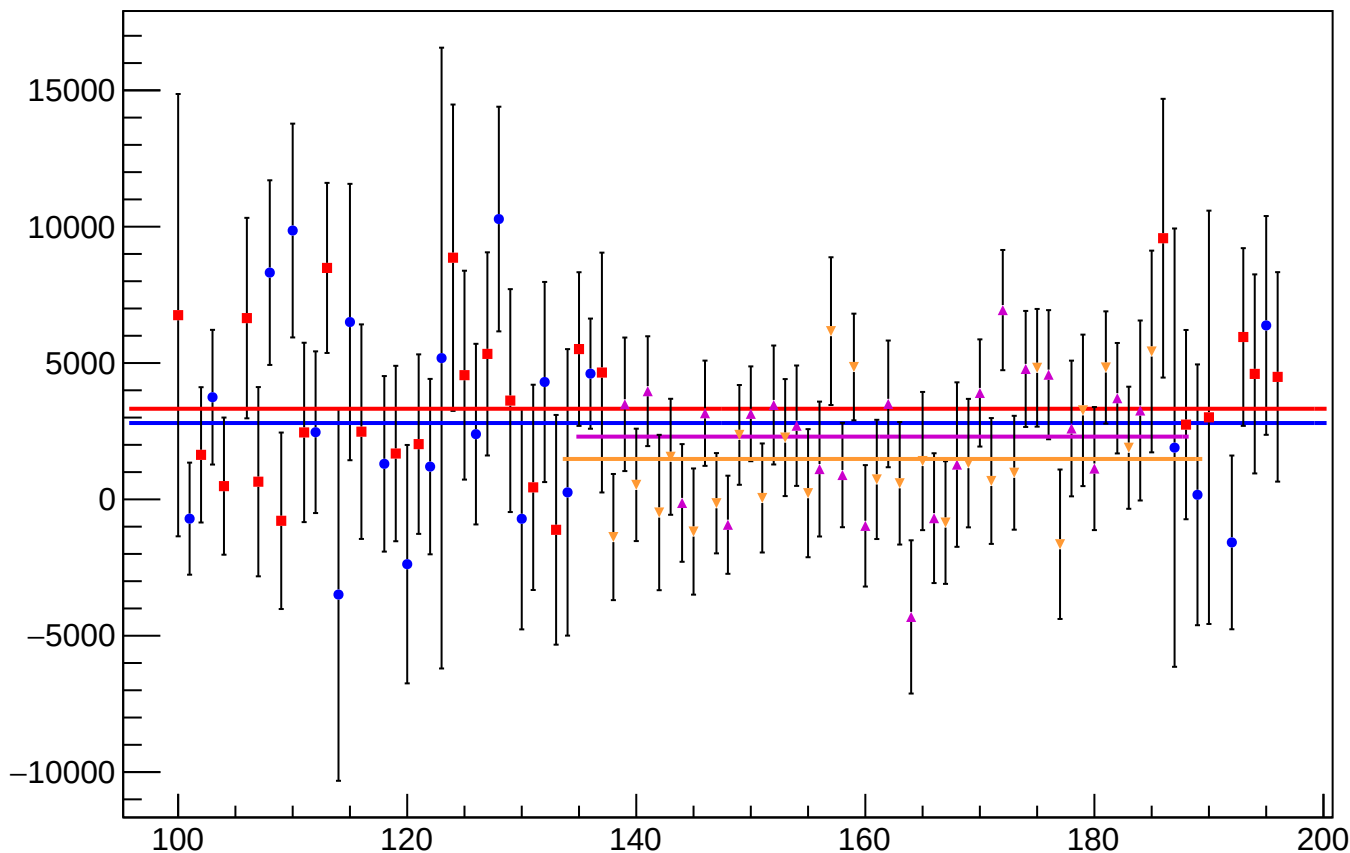
Right: 1861.726 ± 0.308 $\chi^2/\text{NDF}: 3201722.7/45$

In: 1578.116 ± 0.224 $\chi^2/\text{NDF}: 2707200.6/43$

Out: 1634.117 ± 0.219 $\chi^2/\text{NDF}: 3075783.8/49$

All: 1606.638 ± 0.157 $\chi^2/\text{NDF}: 5814929.6/93$

asym_usr_mean vs Slug, Sign Corrected



Right In: 2799.936 $\pm$ 752.315 χ^2 /NDF: 20.5/20

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

Right Out: 3323.306 $\pm$ 716.213 χ^2 /NDF: 14.4/24

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

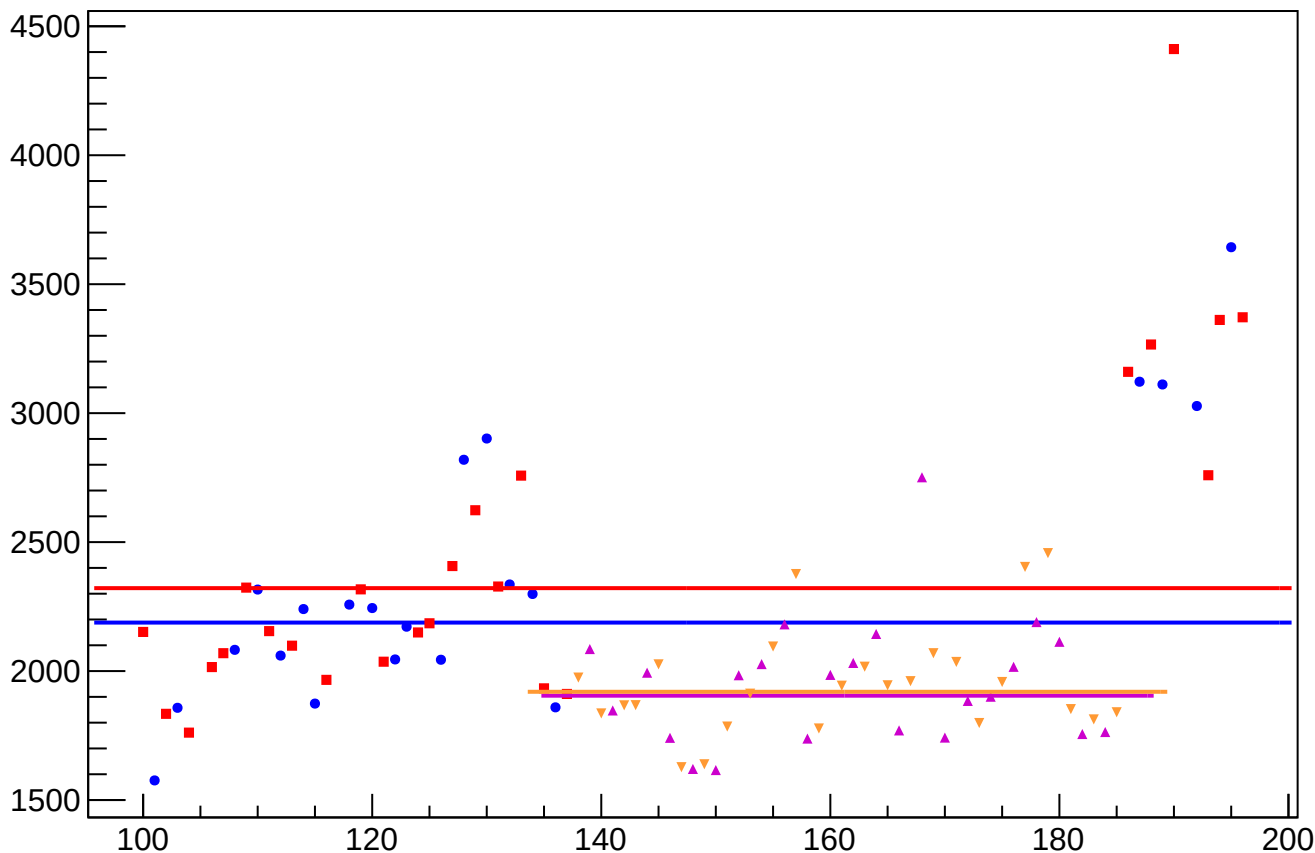
Right: 3074.480 $\pm$ 518.733 χ^2 /NDF: 35.2/45

In: 2436.541 $\pm$ 391.854 χ^2 /NDF:45.7/43

Out: 2003.386 $\pm$ 381.022 χ^2 /NDF:40.0/49

All: 2213.894 $\pm$ 273.173 χ^2 /NDF: 86.3/93

asym_usr_rms vs Slug, Sign Corrected



Right In: 2188.035+/-0.532 χ^2/NDF : 907532.3/20

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

Right Out: 2321.535+/-0.506 χ^2/NDF : 1043852.6/24

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

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

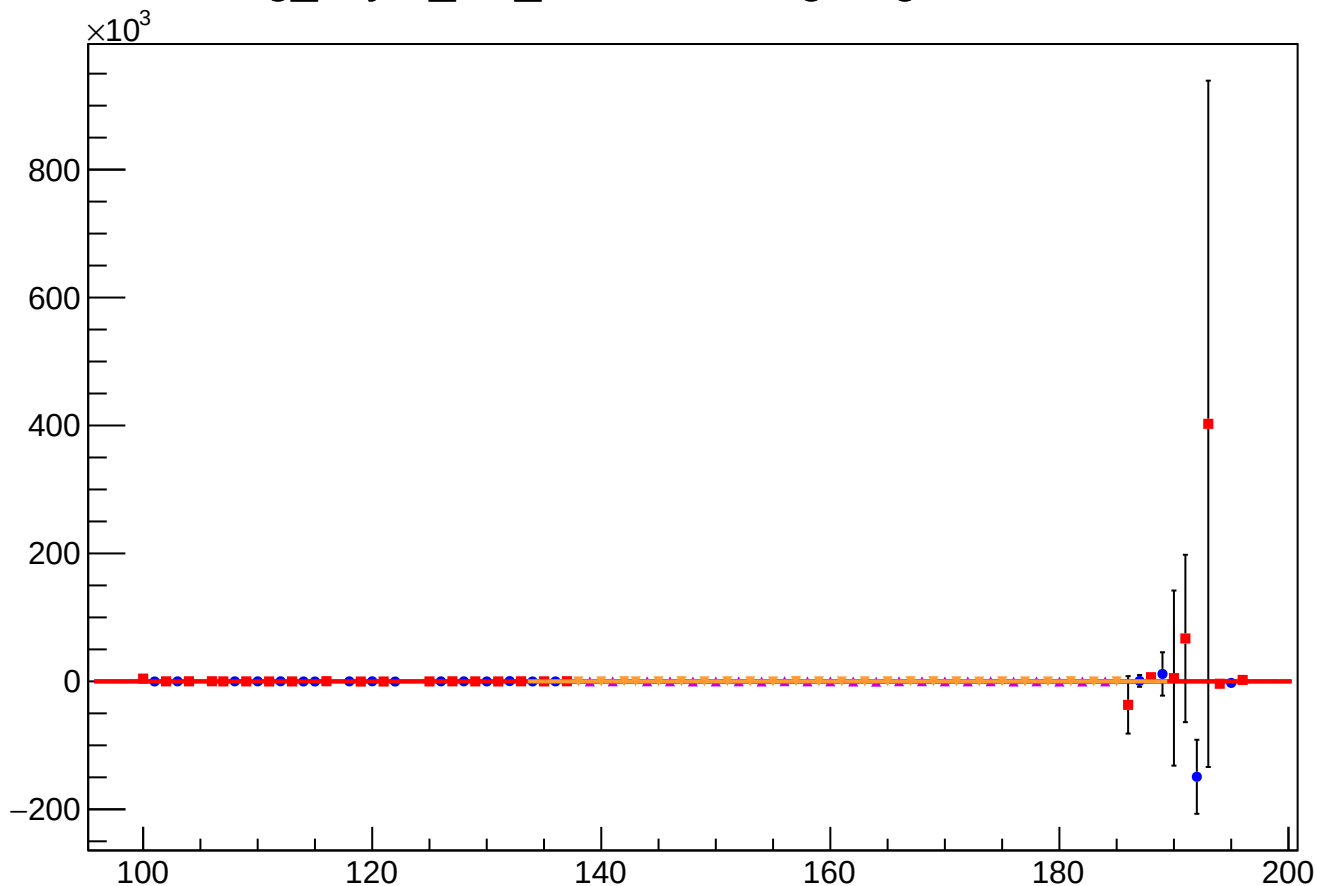
Right: 2258.065+/-0.367 χ^2/NDF : 1984421.5/45

In: 1981.517+/-0.277 χ^2/NDF : 1561705.9/43

Out: 2033.450+/-0.269 χ^2/NDF : 1861386.5/49

All: 2008.211+/-0.193 χ^2/NDF : 3441149.2/93

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.985 ± 36.770 $\chi^2/\text{NDF}: 23.6/19$

Left Out: 7.608 ± 25.572 $\chi^2/\text{NDF}: 36.5/24$

Right Out: 1.809 ± 36.753 $\chi^2/\text{NDF}: 17.2/24$

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

Left: 15.942 ± 18.349 $\chi^2/\text{NDF}: 73.1/47$

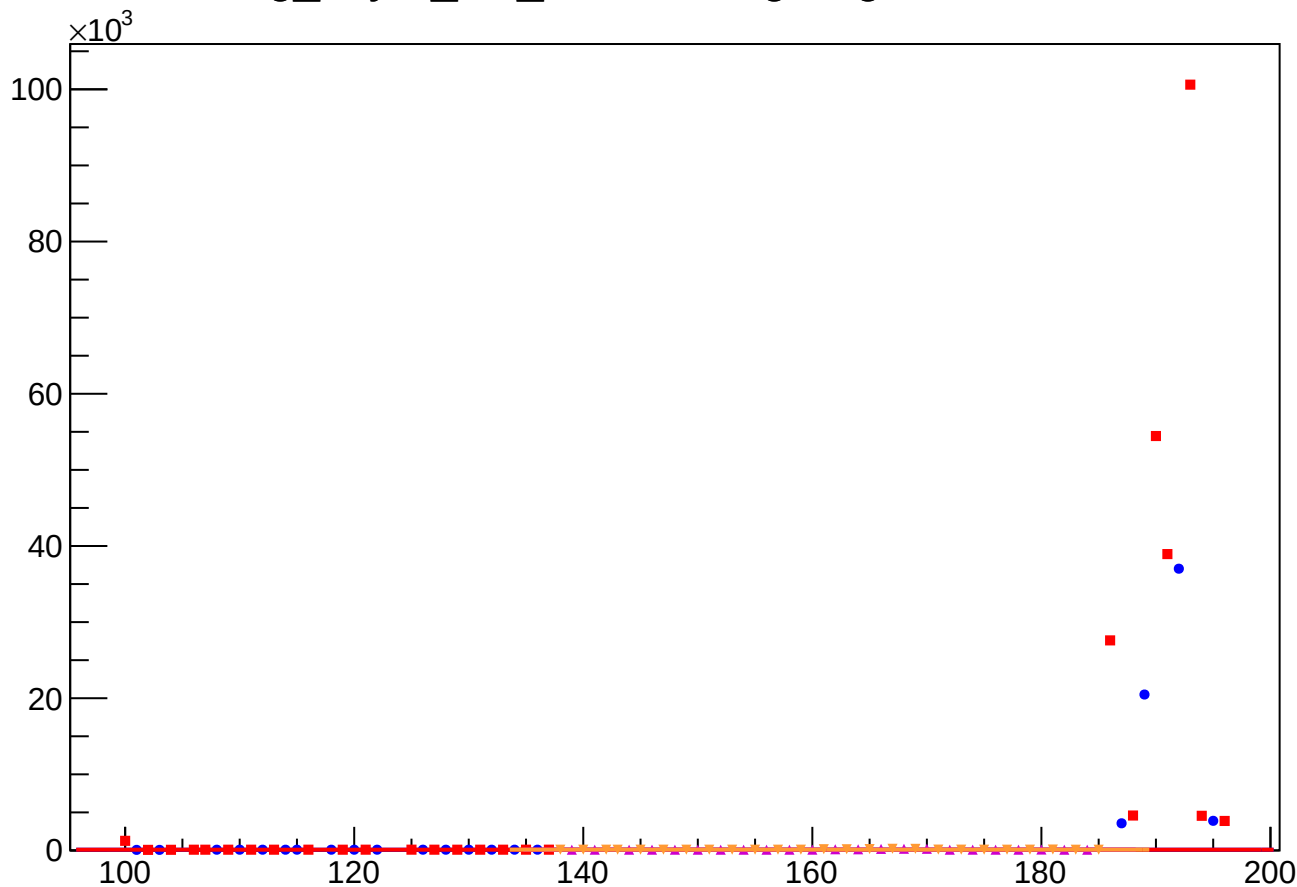
Right: 0.413 ± 25.994 $\chi^2/\text{NDF}: 40.8/44$

In: 16.045 ± 21.415 $\chi^2/\text{NDF}: 60.3/42$

Out: 5.717 ± 20.991 $\chi^2/\text{NDF}: 53.7/49$

All: 10.778 ± 14.990 $\chi^2/\text{NDF}: 114.2/92$

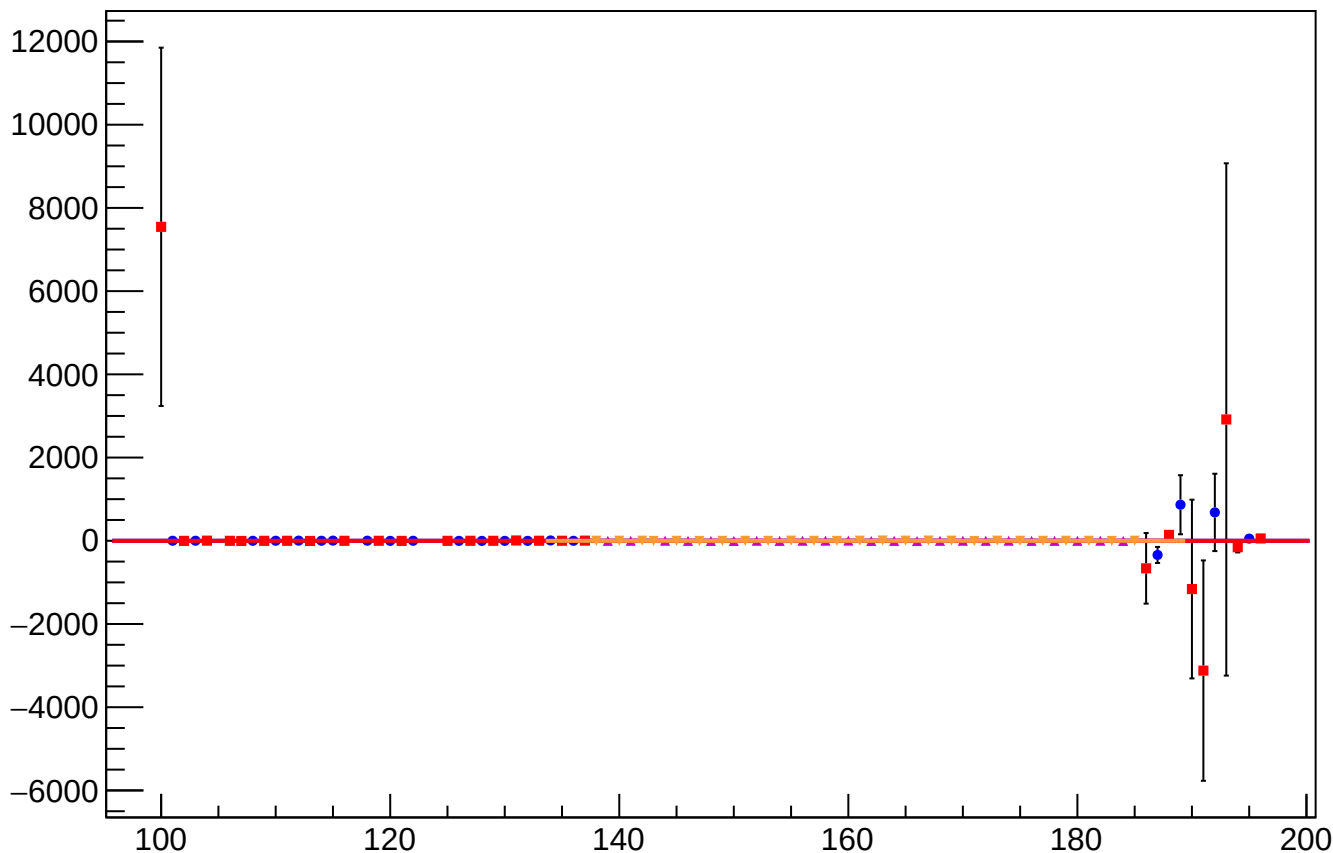
reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.426+/-0.026 χ^2/NDF : 3587318.6/19
 Left Out: 107.590+/-0.018 χ^2/NDF : 1447372.1/24
 Right Out: 96.970+/-0.026 χ^2/NDF : 5210441.7/24
 Left In: 107.672+/-0.019 χ^2/NDF : 1491034.7/22

Left: 107.630+/-0.013 χ^2/NDF : 2938417.0/47
 Right: 95.698+/-0.018 χ^2/NDF : 8802547.0/44
 In: 103.179+/-0.015 χ^2/NDF : 5249872.5/42
 Out: 104.125+/-0.015 χ^2/NDF : 6770332.1/49
 All: 103.662+/-0.011 χ^2/NDF : 12022194.6/92

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.391+/-0.617 χ^2/NDF : 16.1/19

Left Out: -0.765+/-0.459 χ^2/NDF : 34.1/24

Right Out: -0.340+/-0.644 χ^2/NDF : 27.4/24

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

Left: -0.435+/-0.333 χ^2/NDF : 60.2/47

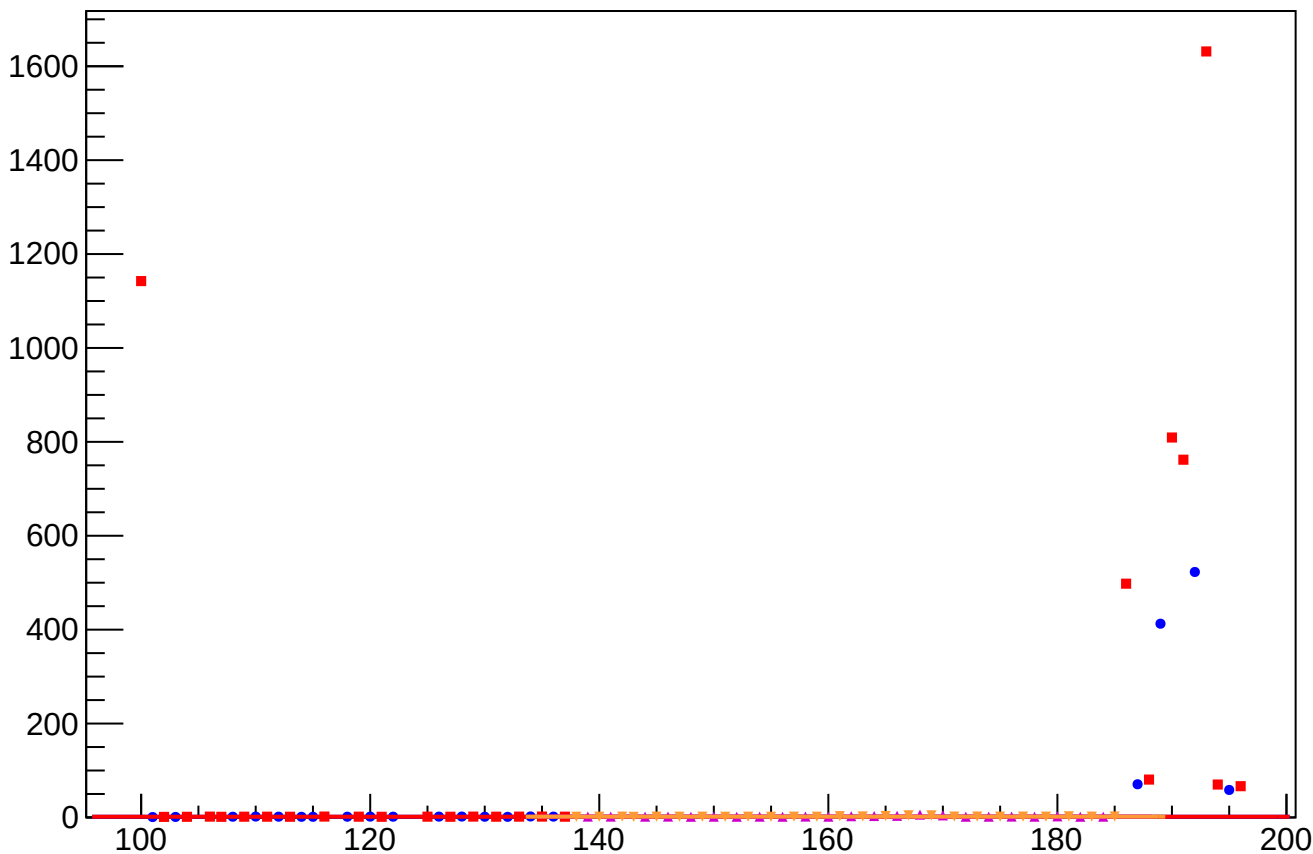
Right: 0.041+/-0.445 χ^2/NDF : 44.2/44

In: 0.107+/-0.381 χ^2/NDF : 41.4/42

Out: -0.621+/-0.374 χ^2/NDF : 61.9/49

All: -0.264+/-0.267 χ^2/NDF : 105.1/92

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.426+/-0.000 χ^2/NDF : 3571946.7/19

Left Out: 1.746+/-0.000 χ^2/NDF : 1683746.5/24

Right Out: 1.564+/-0.000 χ^2/NDF : 4694512.2/24

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

Left: 1.773+/-0.000 χ^2/NDF : 3619133.7/47

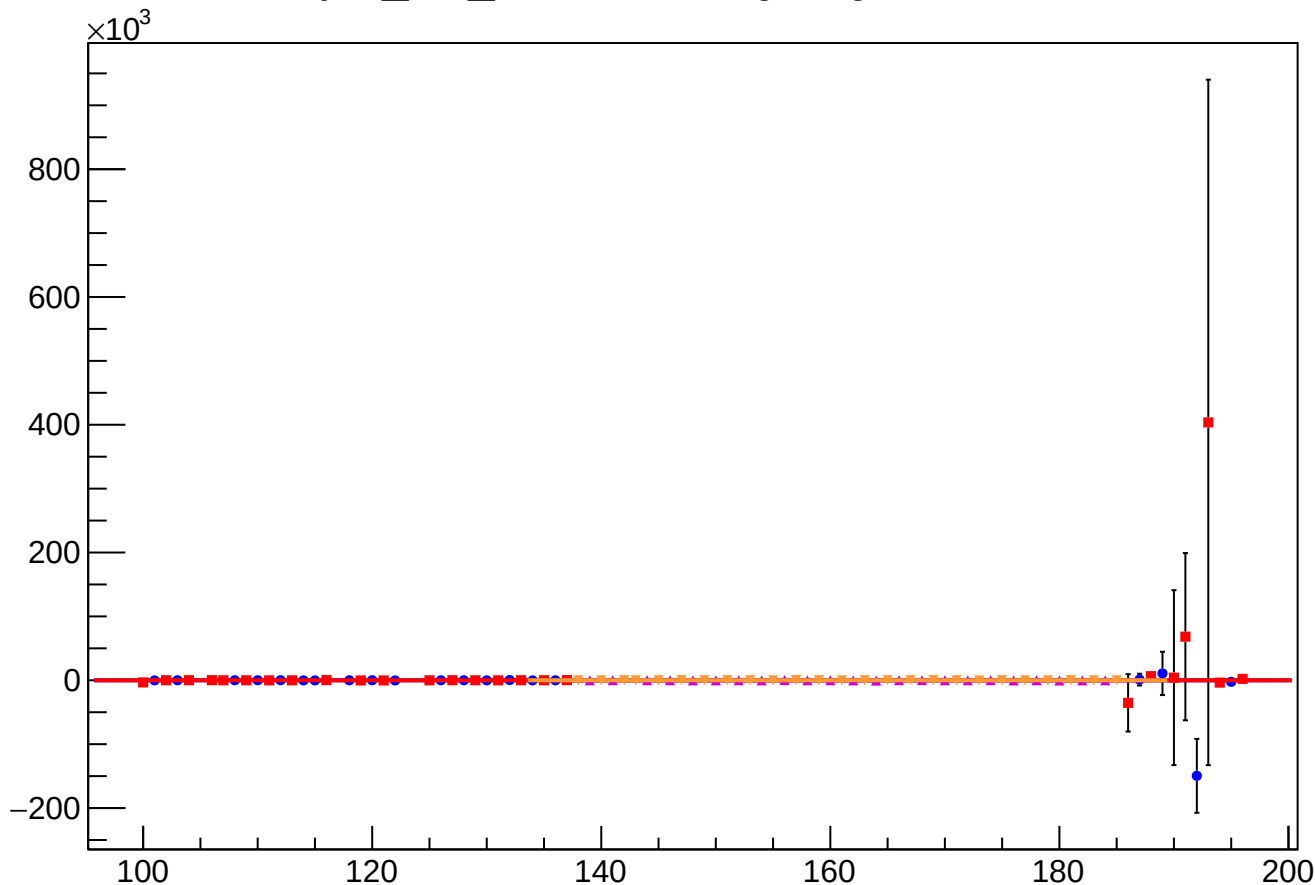
Right: 1.492+/-0.000 χ^2/NDF : 8314965.8/44

In: 1.659+/-0.000 χ^2/NDF : 5954703.9/42

Out: 1.685+/-0.000 χ^2/NDF : 6484153.2/49

All: 1.672+/-0.000 χ^2/NDF : 12443712.4/92

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.686 ± 36.779 $\chi^2/\text{NDF}: 23.8/19$

Left Out: 8.411 ± 25.580 $\chi^2/\text{NDF}: 36.3/24$

Right Out: 1.565 ± 36.763 $\chi^2/\text{NDF}: 16.7/24$

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

Left: 16.611 ± 18.355 $\chi^2/\text{NDF}: 72.2/47$

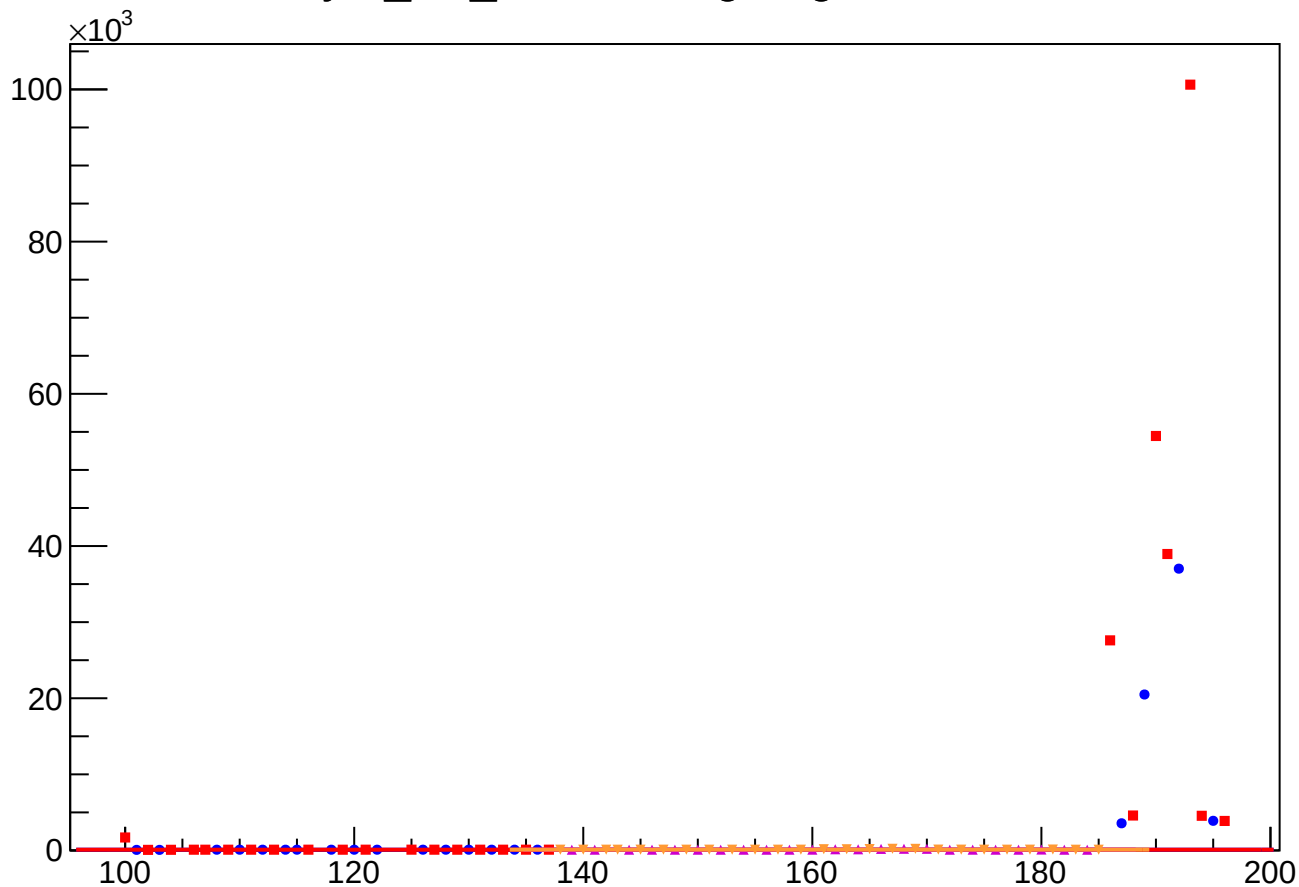
Right: 0.440 ± 26.001 $\chi^2/\text{NDF}: 40.5/44$

In: 16.493 ± 21.421 $\chi^2/\text{NDF}: 59.8/42$

Out: 6.178 ± 20.997 $\chi^2/\text{NDF}: 53.0/49$

All: 11.233 ± 14.995 $\chi^2/\text{NDF}: 113.0/92$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.451+/-0.026 χ^2/NDF : 3587306.0/19

Left Out: 107.620+/-0.018 χ^2/NDF : 1448769.2/24

Right Out: 96.979+/-0.026 χ^2/NDF : 5215638.7/24

Left In: 107.703+/-0.019 χ^2/NDF : 1492338.5/22

Left: 107.660+/-0.013 χ^2/NDF : 2941117.9/47

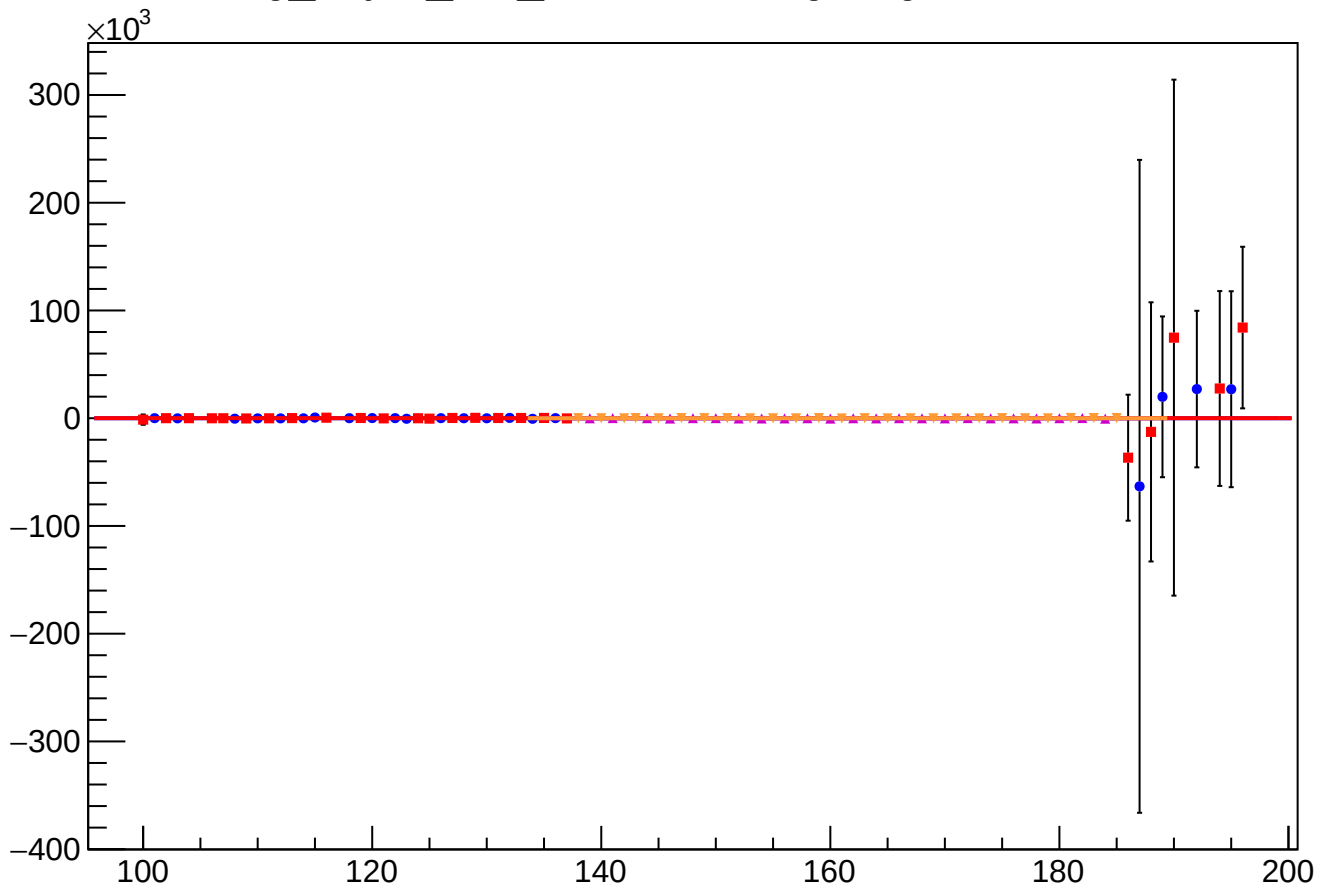
Right: 95.715+/-0.018 χ^2/NDF : 8807671.0/44

In: 103.208+/-0.015 χ^2/NDF : 5251234.8/42

Out: 104.149+/-0.015 χ^2/NDF : 6777318.4/49

All: 103.688+/-0.011 χ^2/NDF : 12030521.3/92

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.773 $\pm$ 46.841 χ^2 /NDF: 14.8/20

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

Right Out: 53.402 $\pm$ 47.775 χ^2 /NDF: 17.3/23

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

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

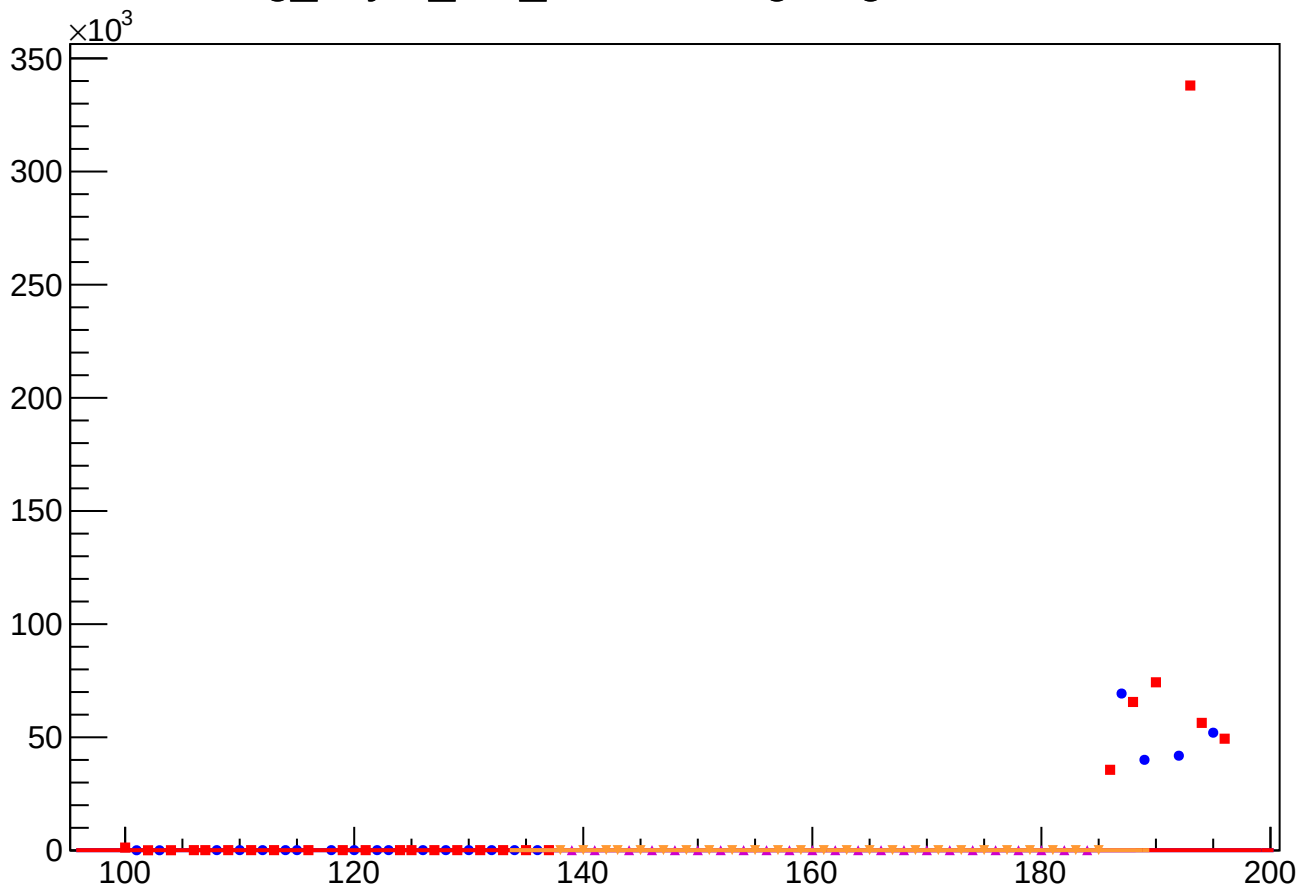
Right: 12.524 $\pm$ 33.447 χ^2 /NDF: 33.5/44

In: -52.573 $\pm$ 26.947 χ^2 /NDF:34.5/43

Out: 7.738 $\pm$ 26.623 χ^2 /NDF:30.6/48

All: -22.053 $\pm$ 18.939 χ^2 /NDF: 67.6/92

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.814 $\pm$ 0.033 χ^2 /NDF: 2820937.9/20

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

Right Out: 124.802 $\pm$ 0.034 χ^2 /NDF: 4078206.3/24

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

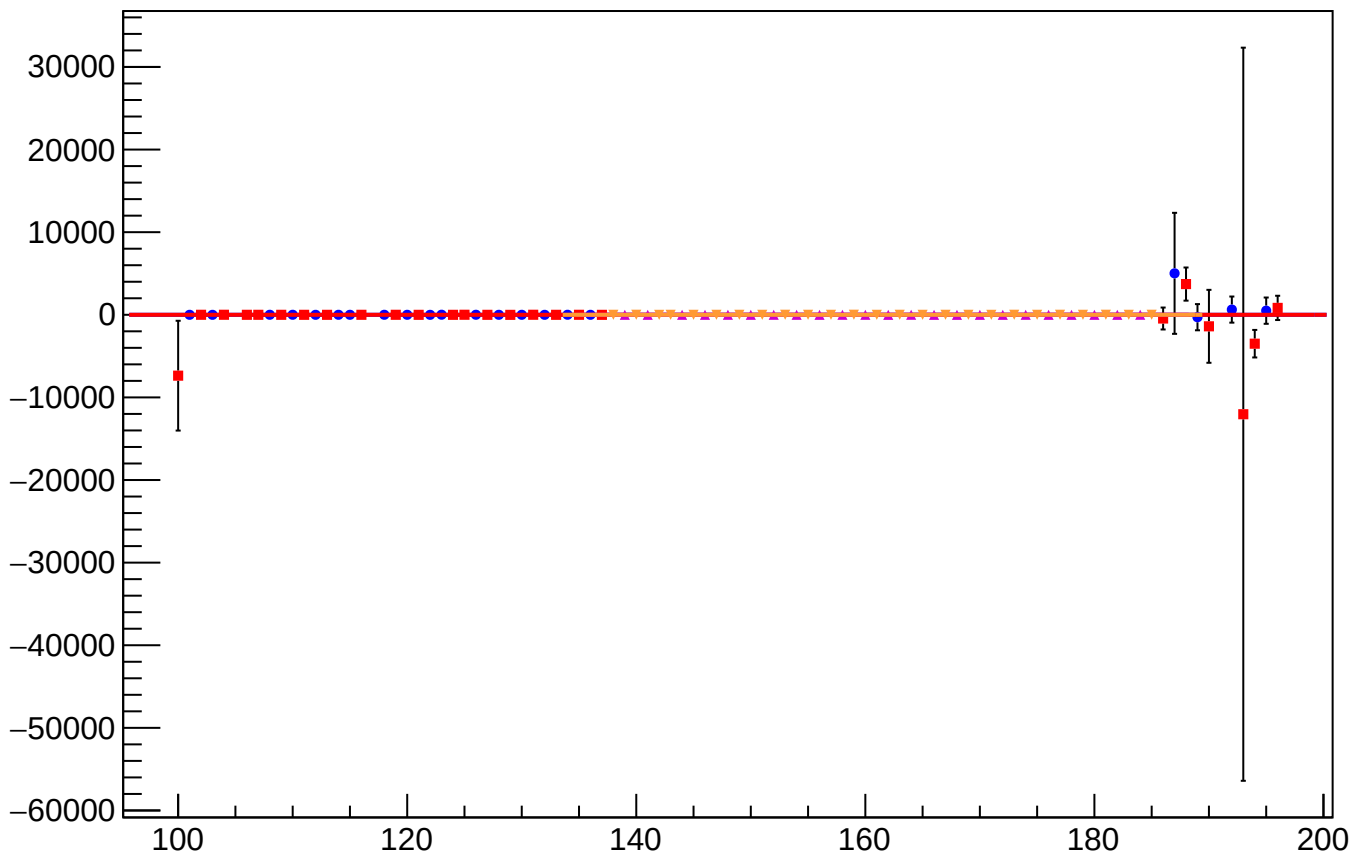
Right: 121.239 $\pm$ 0.024 χ^2 /NDF: 6920965.6/45

In: 131.189 $\pm$ 0.019 χ^2 /NDF:3065120.2/43

Out: 133.803 $\pm$ 0.019 χ^2 /NDF:4181603.1/49

All: 132.511 $\pm$ 0.013 χ^2 /NDF: 7256248.0/93

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 13.0/20

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 23.2/24

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

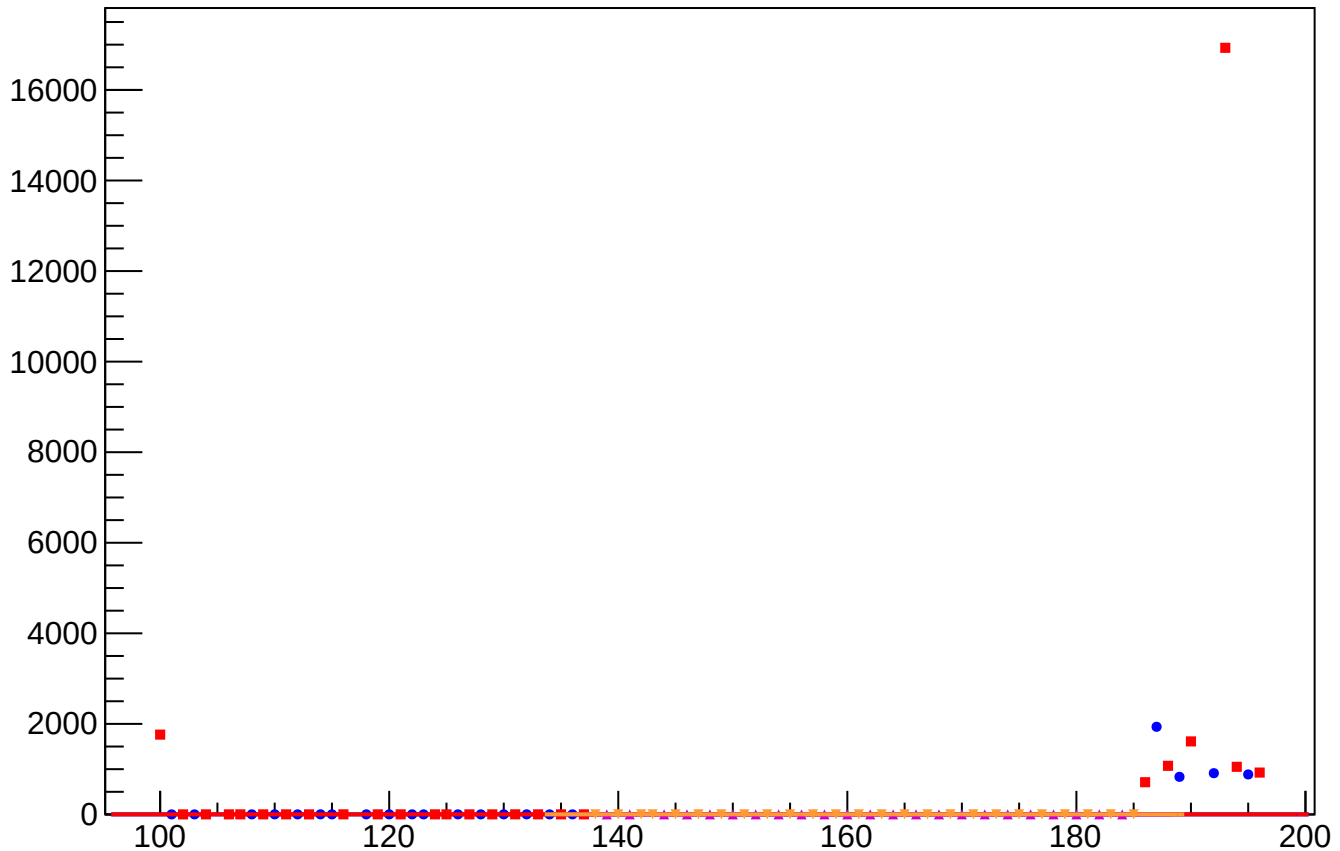
Right: -0.681 ± 0.587 χ^2/NDF : 36.1/45

In: -0.052 ± 0.471 χ^2/NDF : 34.7/43

Out: 0.139 ± 0.475 χ^2/NDF : 53.3/49

All: 0.043 ± 0.334 χ^2/NDF : 88.1/93

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866 $\pm$ 0.001 χ^2/NDF : 2453723.3/20

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

Right Out: 2.065 $\pm$ 0.001 χ^2/NDF : 3813102.4/24

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

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

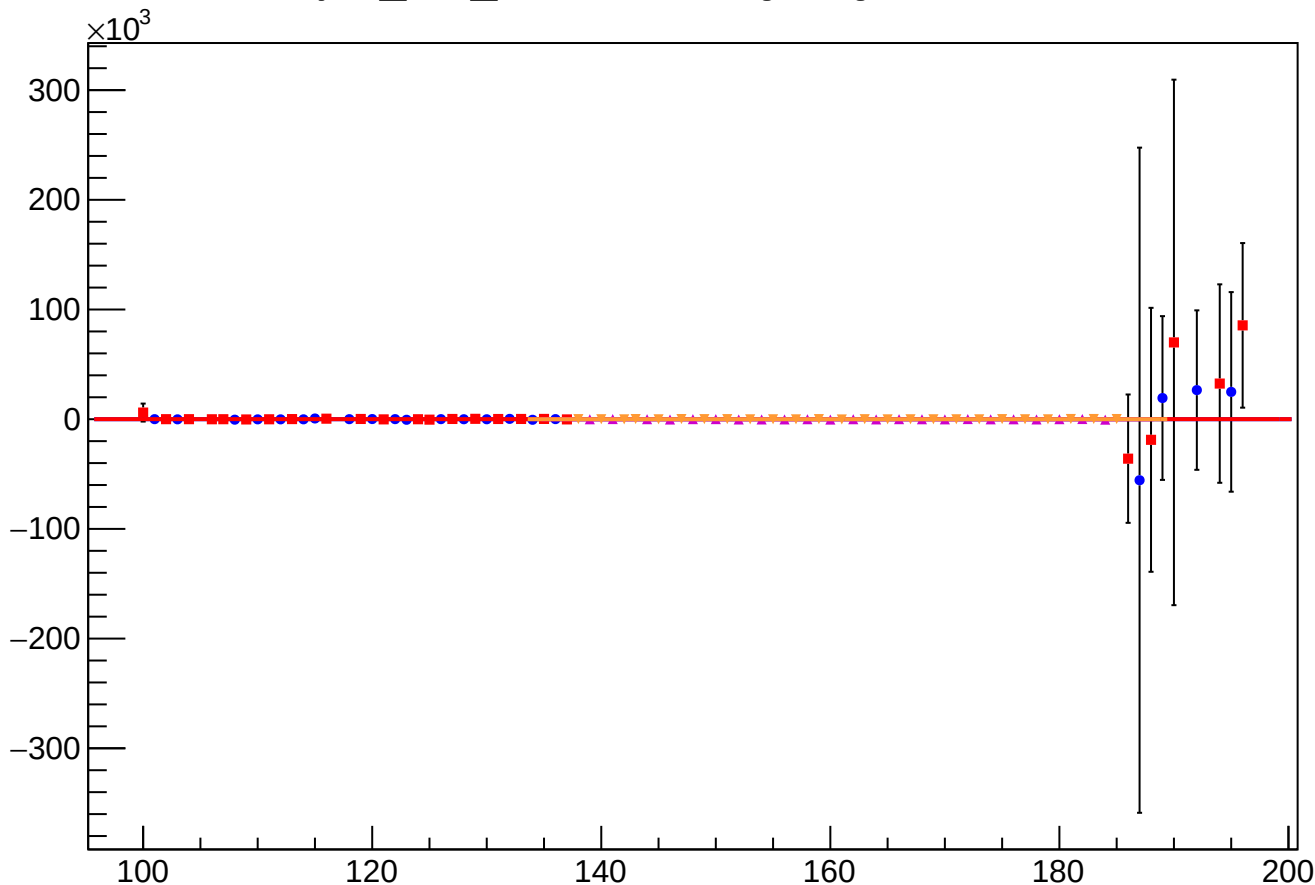
Right: 1.960 $\pm$ 0.000 χ^2/NDF : 6323940.9/45

In: 2.082 $\pm$ 0.000 χ^2/NDF : 3180221.6/43

Out: 2.201 $\pm$ 0.000 χ^2/NDF : 4261896.0/49

All: 2.141 $\pm$ 0.000 χ^2/NDF : 7504655.3/93

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.035 $\pm$ 46.854 χ^2 /NDF: 14.8/20

Left Out: -13.383 $\pm$ 32.072 χ^2 /NDF:11.8/24

Right Out: 54.305 $\pm$ 47.789 χ^2 /NDF: 18.0/23

Left In: -65.231 $\pm$ 32.953 χ^2 /NDF:19.4/22

Left: -38.605 $\pm$ 22.983 χ^2 /NDF: 32.4/47

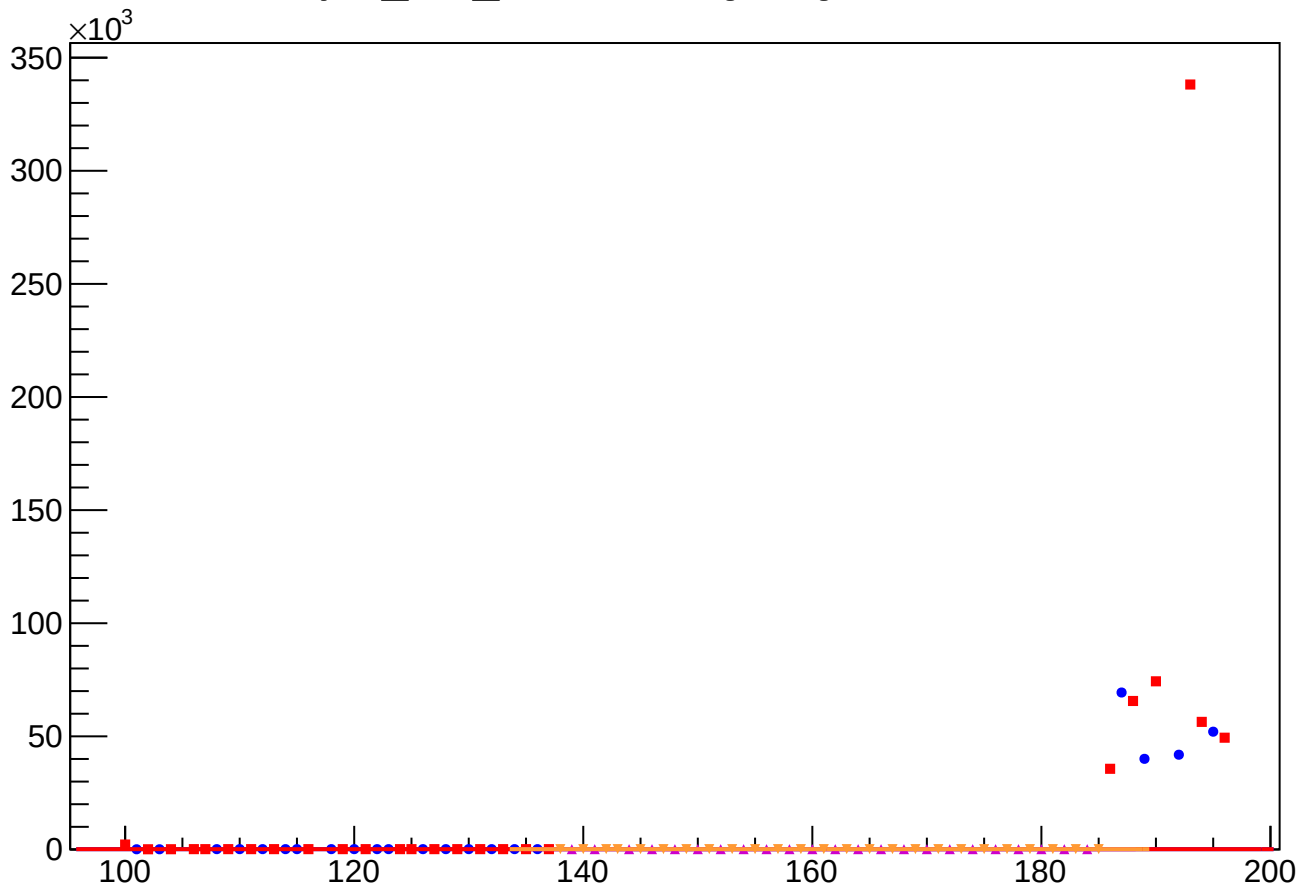
Right: 13.851 $\pm$ 33.456 χ^2 /NDF: 34.2/44

In: -51.928 $\pm$ 26.954 χ^2 /NDF:34.6/43

Out: 7.636 $\pm$ 26.631 χ^2 /NDF:31.2/48

All: -21.787 $\pm$ 18.944 χ^2 /NDF: 68.3/92

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.845 $\pm$ 0.033 χ^2 /NDF: 2820975.7/20

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

Right Out: 124.791 $\pm$ 0.034 χ^2 /NDF: 4088825.1/24

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

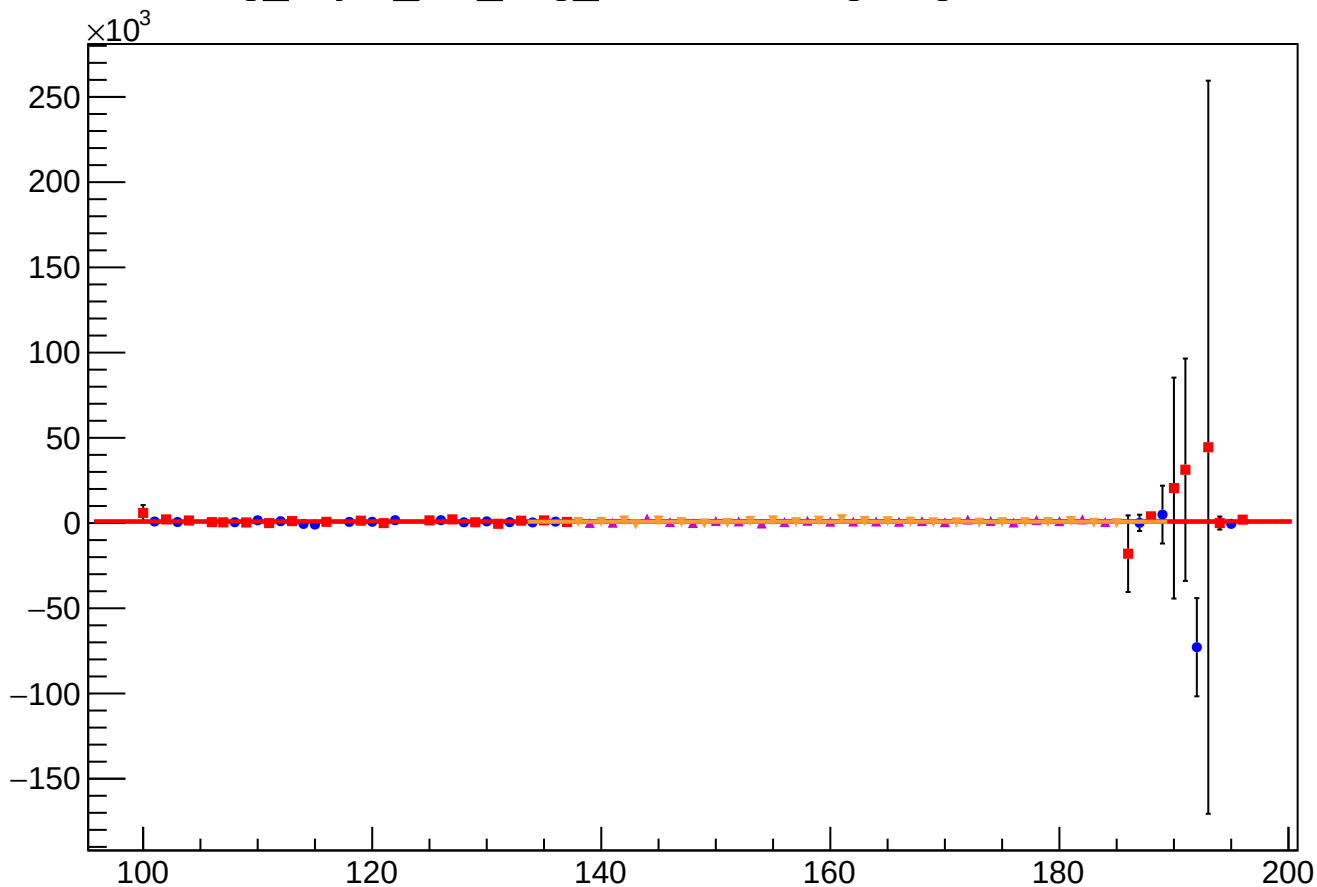
Right: 121.250 $\pm$ 0.024 χ^2 /NDF: 6931343.1/45

In: 131.225 $\pm$ 0.019 χ^2 /NDF: 3065193.6/43

Out: 133.826 $\pm$ 0.019 χ^2 /NDF: 4192943.9/49

All: 132.541 $\pm$ 0.013 χ^2 /NDF: 7267561.5/93

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 829.510 $\pm$ 215.388 χ^2/NDF : 12.2/19

Left Out: 779.744 $\pm$ 133.856 χ^2/NDF : 19.6/24

Right Out: 1017.881 $\pm$ 211.398 χ^2/NDF : 16.4/24

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

Left: 876.294 $\pm$ 95.028 χ^2/NDF : 48.1/47

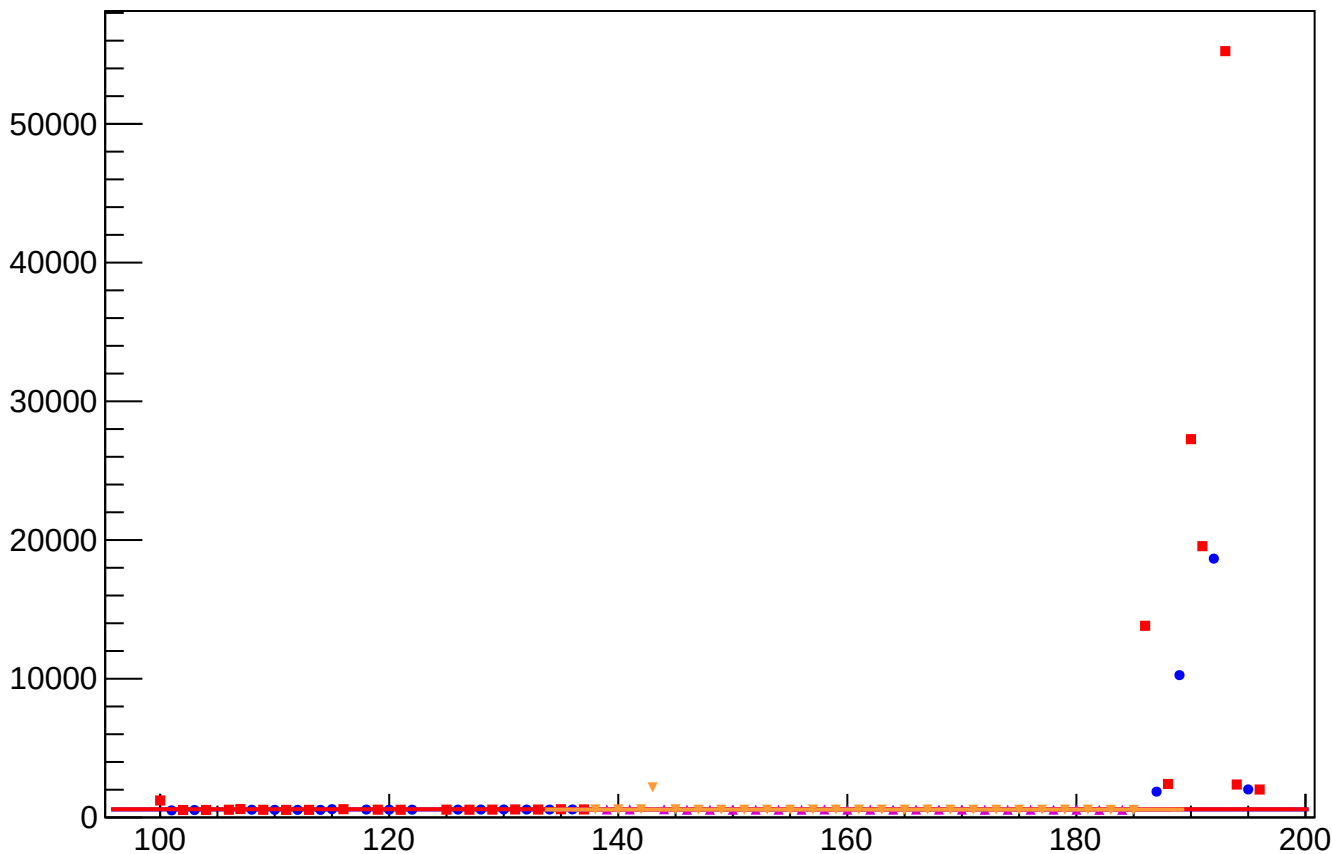
Right: 925.457 $\pm$ 150.872 χ^2/NDF : 29.0/44

In: 933.565 $\pm$ 114.347 χ^2/NDF : 40.0/42

Out: 847.897 $\pm$ 113.091 χ^2/NDF : 36.9/49

All: 890.258 $\pm$ 80.408 χ^2/NDF : 77.2/92

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 576.042+/-0.152 χ^2/NDF : 2480600.9/19

Left Out: 568.874+/-0.095 χ^2/NDF : 853714.5/24

Right Out: 592.633+/-0.149 χ^2/NDF : 3483495.2/24

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

Left: 566.647+/-0.067 χ^2/NDF : 864040.9/47

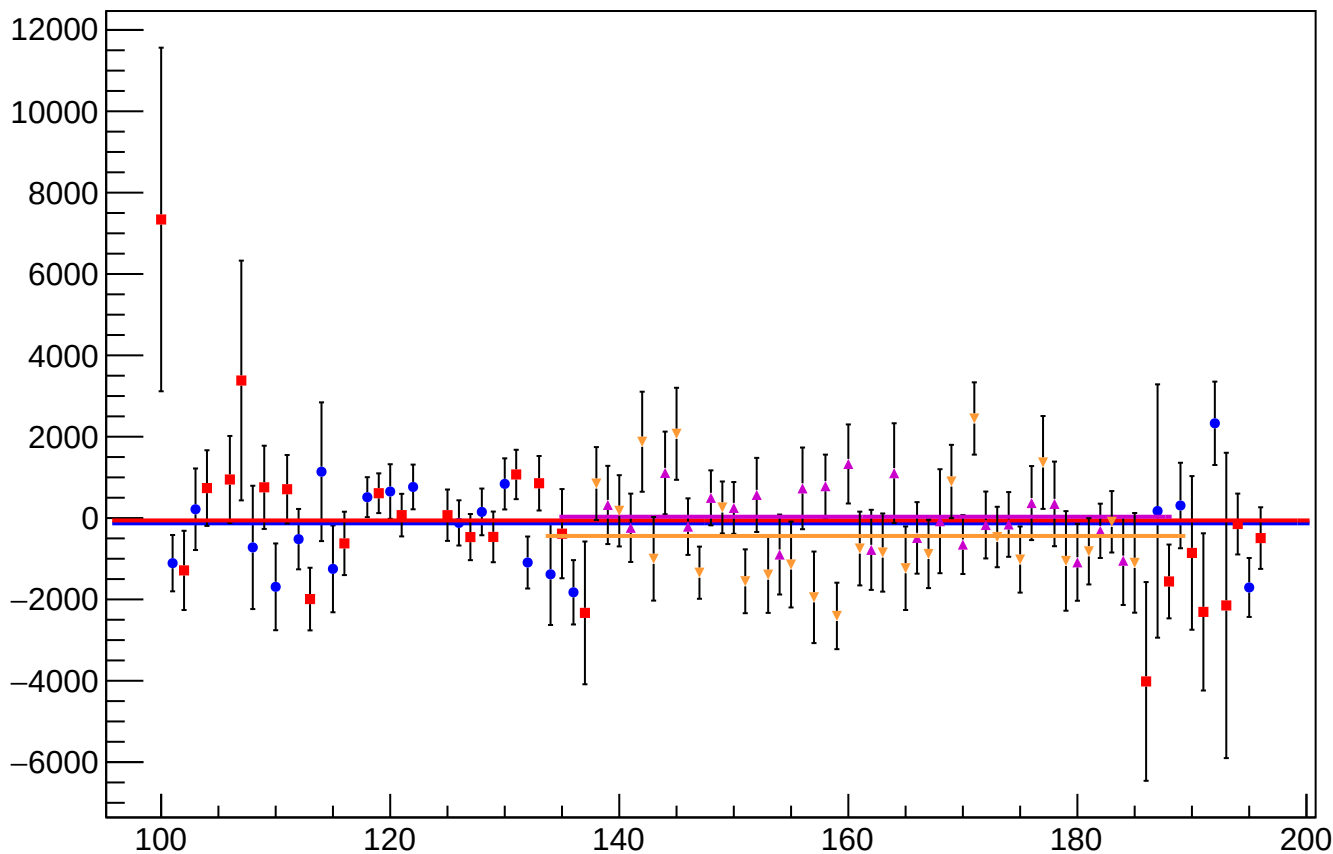
Right: 584.493+/-0.107 χ^2/NDF : 5970140.3/44

In: 567.669+/-0.081 χ^2/NDF : 2494019.0/42

Out: 575.674+/-0.080 χ^2/NDF : 4355242.0/49

All: 571.716+/-0.057 χ^2/NDF : 6854215.8/92

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -129.393+/-170.345 χ^2/NDF : 33.2/19

Left Out: -440.022+/-177.884 χ^2/NDF : 43.5/24

Right Out: -58.378+/-165.233 χ^2/NDF : 33.5/24

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

Left: -205.851+/-126.326 χ^2/NDF : 59.2/47

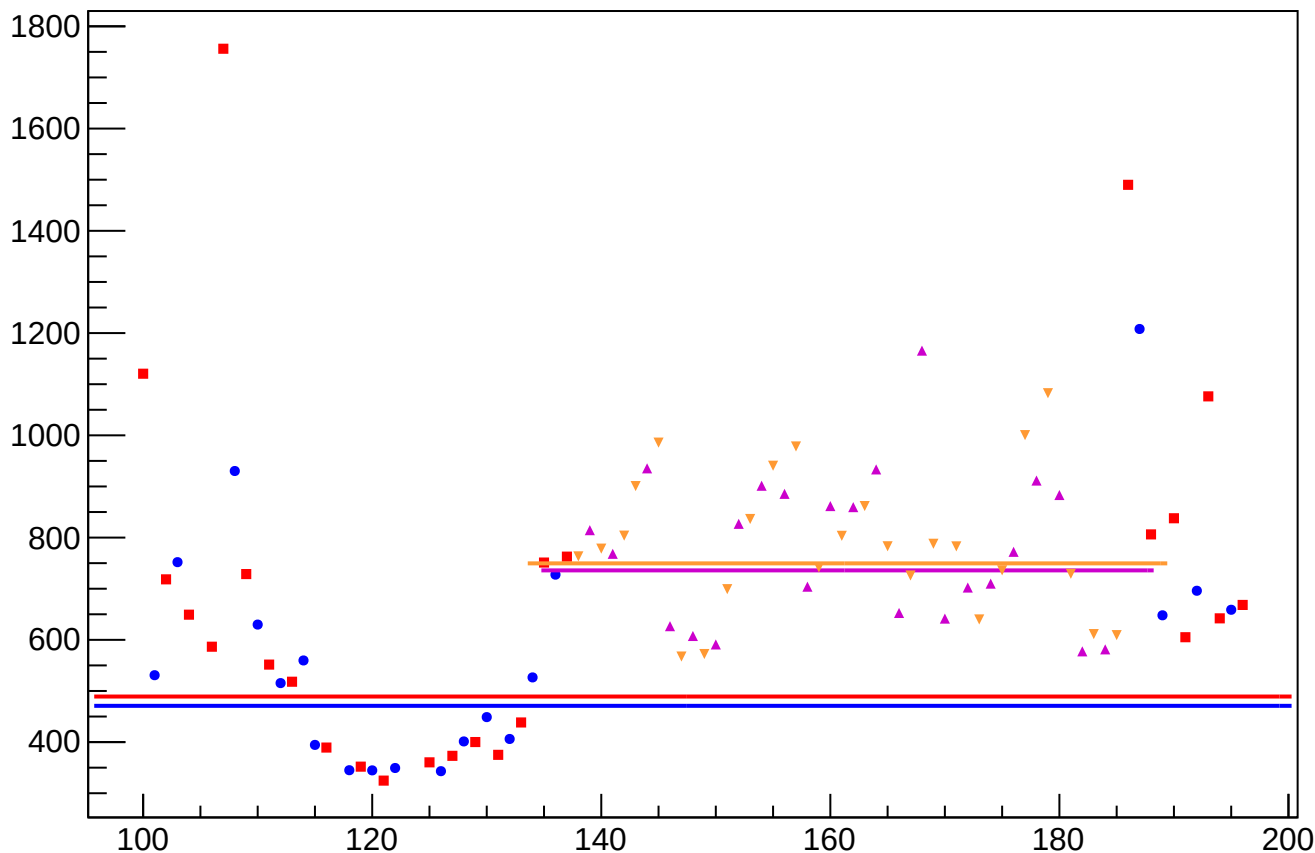
Right: -92.804+/-118.604 χ^2/NDF : 66.8/44

In: -52.691+/-123.539 χ^2/NDF : 45.8/42

Out: -235.149+/-121.063 χ^2/NDF : 79.5/49

All: -145.767+/-86.467 χ^2/NDF : 126.4/92

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 470.940 $\pm$ 0.120 χ^2 /NDF: 1495296.2/19

Left Out: 749.578 $\pm$ 0.126 χ^2 /NDF:1053455.5/24

Right Out: 489.140 $\pm$ 0.117 χ^2 /NDF: 2464956.8/24

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

Left: 742.773 $\pm$ 0.089 χ^2 /NDF: 2164765.1/47

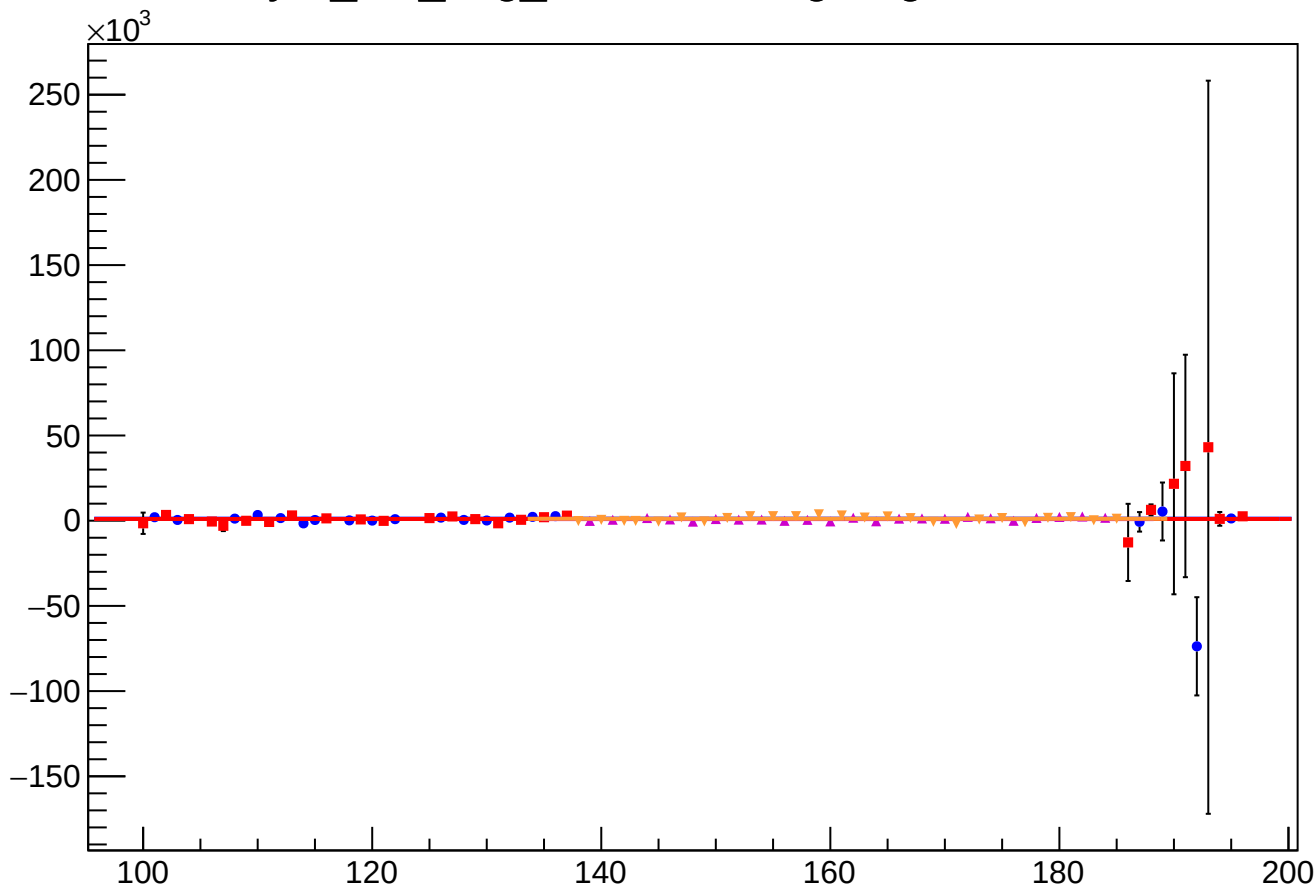
Right: 480.317 $\pm$ 0.084 χ^2 /NDF: 3972015.5/44

In: 596.519 $\pm$ 0.087 χ^2 /NDF:4893590.9/42

Out: 609.770 $\pm$ 0.086 χ^2 /NDF:5819821.9/49

All: 603.279 $\pm$ 0.061 χ^2 /NDF: 10725150.2/92

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1186.557 $\pm$ 293.294 χ^2 /NDF: 18.7/19

Left Out: 1128.601 $\pm$ 228.001 χ^2 /NDF:39.1/24

Right Out: 1010.042 $\pm$ 290.068 χ^2 /NDF: 27.1/24

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

Left: 1035.284 $\pm$ 161.335 χ^2 /NDF: 54.2/47

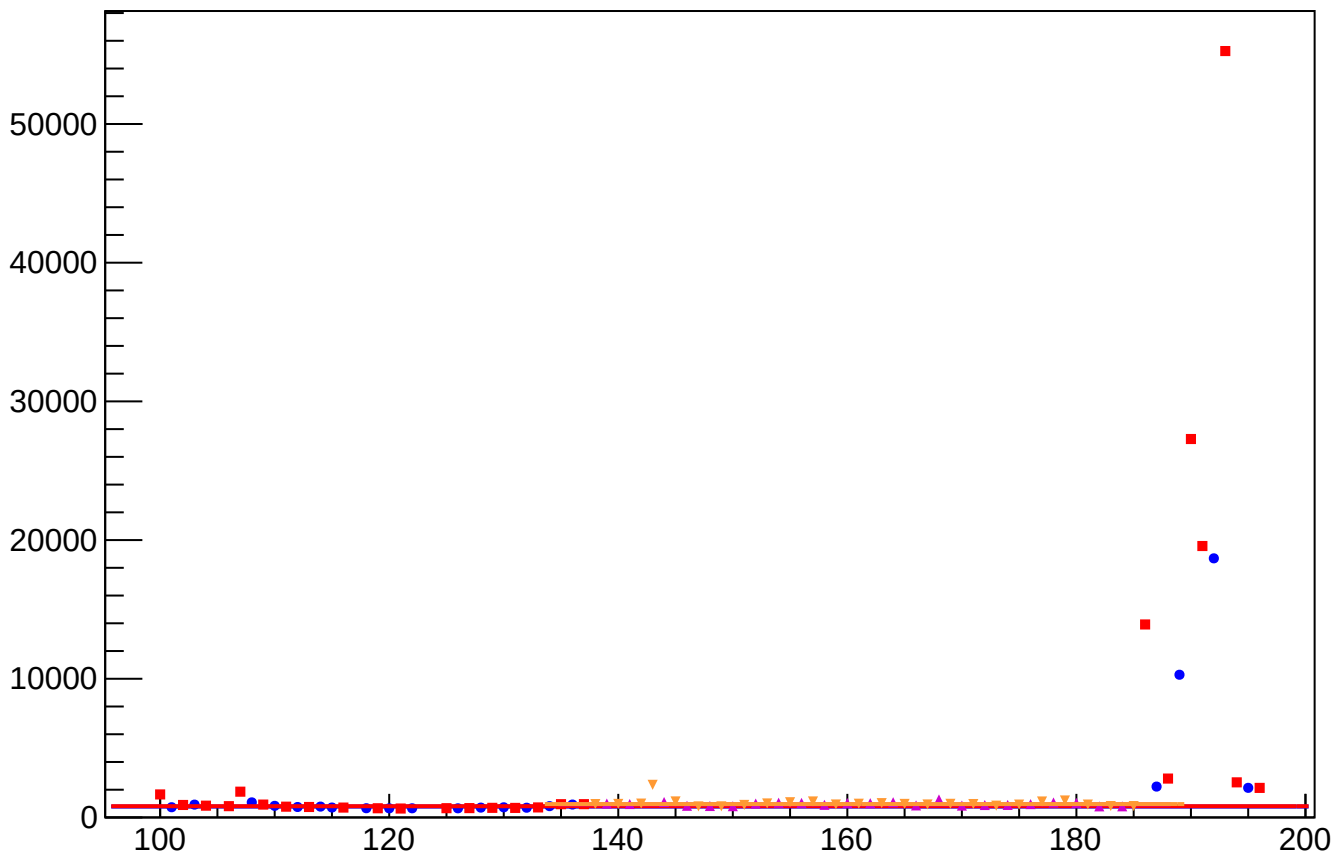
Right: 1097.324 $\pm$ 206.240 χ^2 /NDF: 45.9/44

In: 1034.097 $\pm$ 180.167 χ^2 /NDF:33.9/42

Out: 1083.325 $\pm$ 179.254 χ^2 /NDF:66.3/49

All: 1058.836 $\pm$ 127.073 χ^2 /NDF: 100.2/92

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 784.234+/-0.207 χ^2/NDF : 2469108.9/19

Left Out: 964.493+/-0.161 χ^2/NDF :1002763.0/24

Right Out: 811.116+/-0.205 χ^2/NDF : 3610029.4/24

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

Left: 955.545+/-0.114 χ^2/NDF : 1510298.5/47

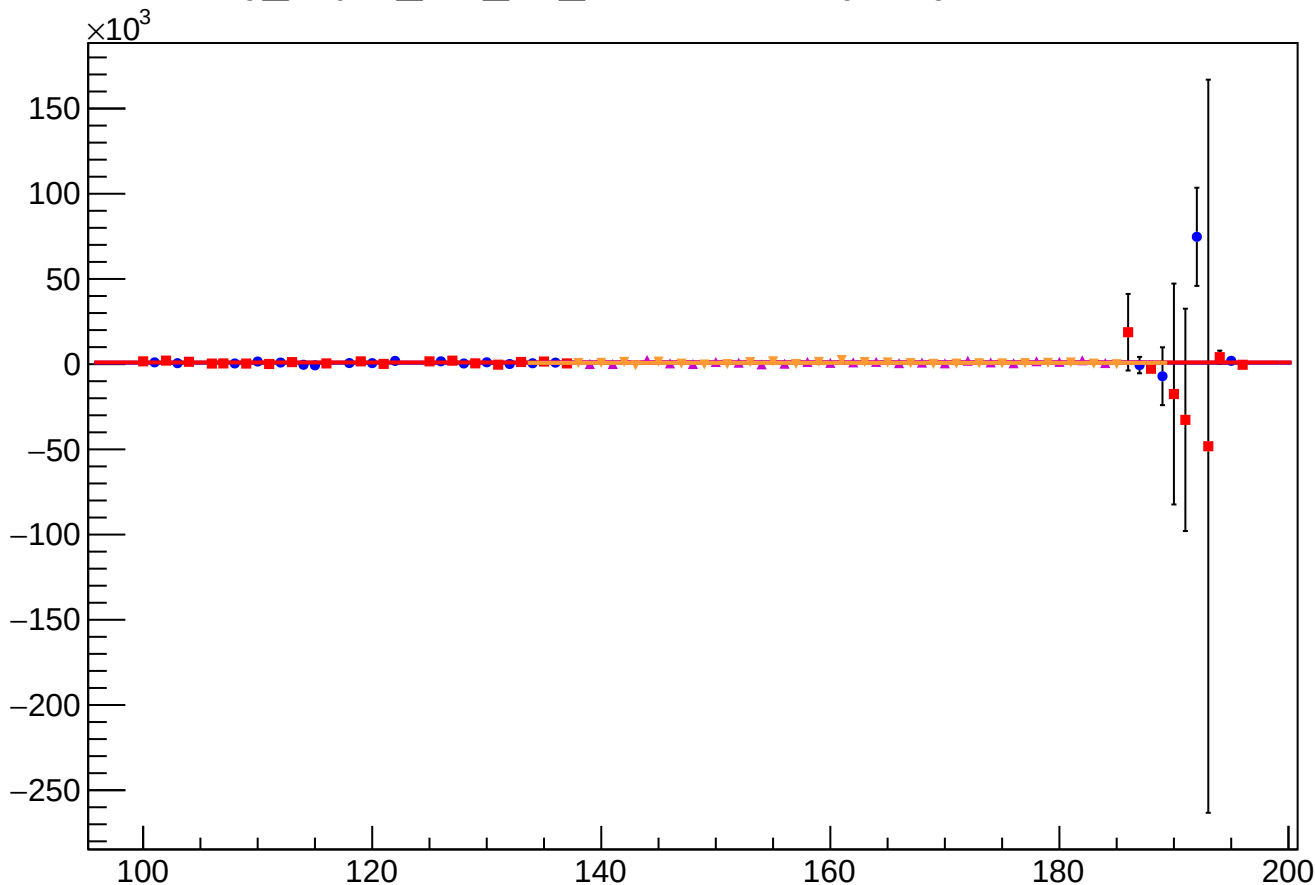
Right: 797.824+/-0.146 χ^2/NDF : 6087632.2/44

In: 885.315+/-0.127 χ^2/NDF :3351992.9/42

Out: 905.920+/-0.127 χ^2/NDF :4958423.5/49

All: 895.669+/-0.090 χ^2/NDF : 8323562.6/92

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 855.955 $\pm$ 215.229 χ^2 /NDF: 13.2/19

Left Out: 753.308 $\pm$ 133.745 χ^2 /NDF:21.4/24

Right Out: 1002.003 $\pm$ 206.497 χ^2 /NDF: 16.1/24

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

Left: 855.088 $\pm$ 94.951 χ^2 /NDF: 49.4/47

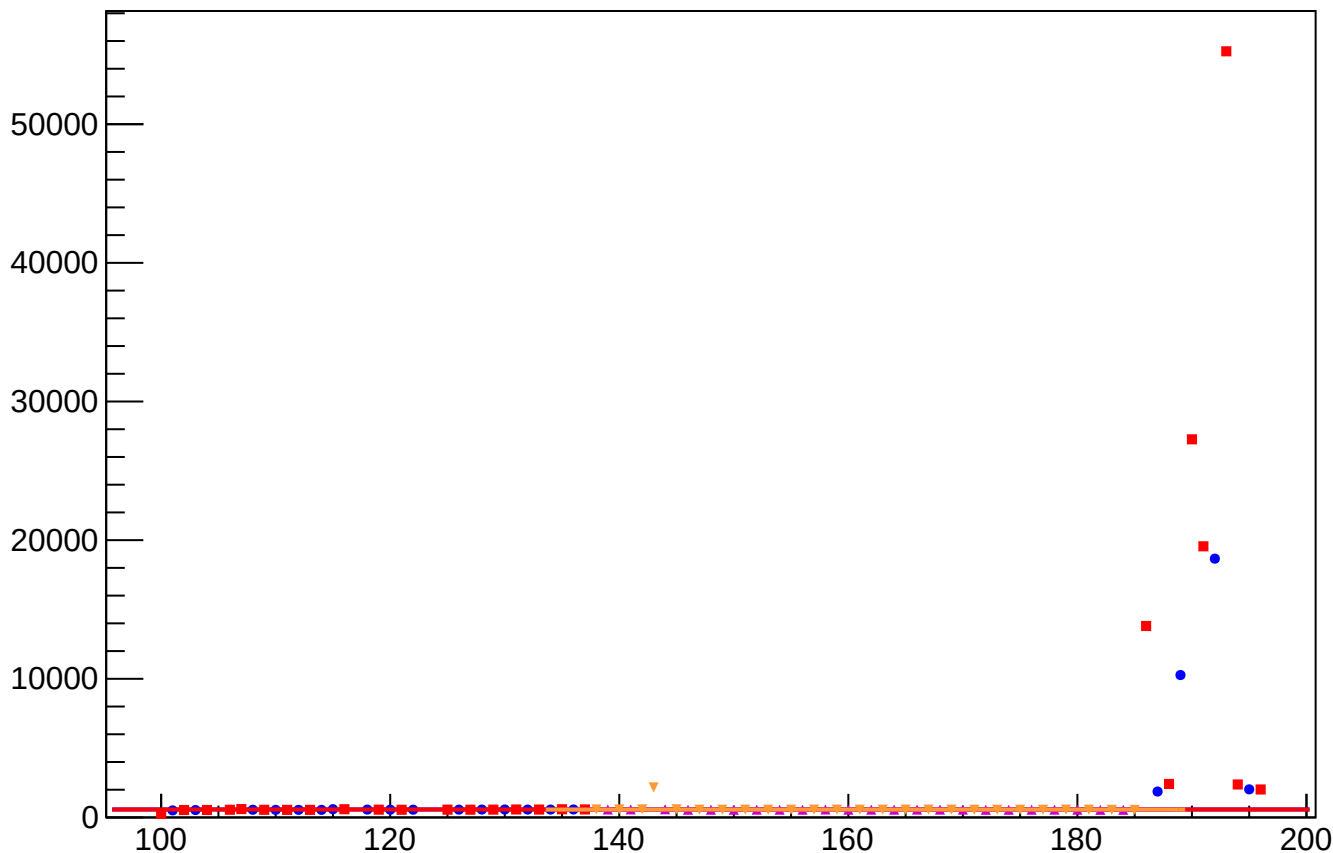
Right: 932.002 $\pm$ 149.007 χ^2 /NDF: 29.6/44

In: 929.613 $\pm$ 114.258 χ^2 /NDF:40.2/42

Out: 826.803 $\pm$ 112.256 χ^2 /NDF:38.5/49

All: 877.300 $\pm$ 80.075 χ^2 /NDF: 79.1/92

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 575.558+/-0.152 χ^2/NDF : 2483952.2/19

Left Out: 568.400+/-0.095 χ^2/NDF :854012.8/24

Right Out: 575.200+/-0.146 χ^2/NDF : 3684435.3/24

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

Left: 566.185+/-0.067 χ^2/NDF : 864323.4/47

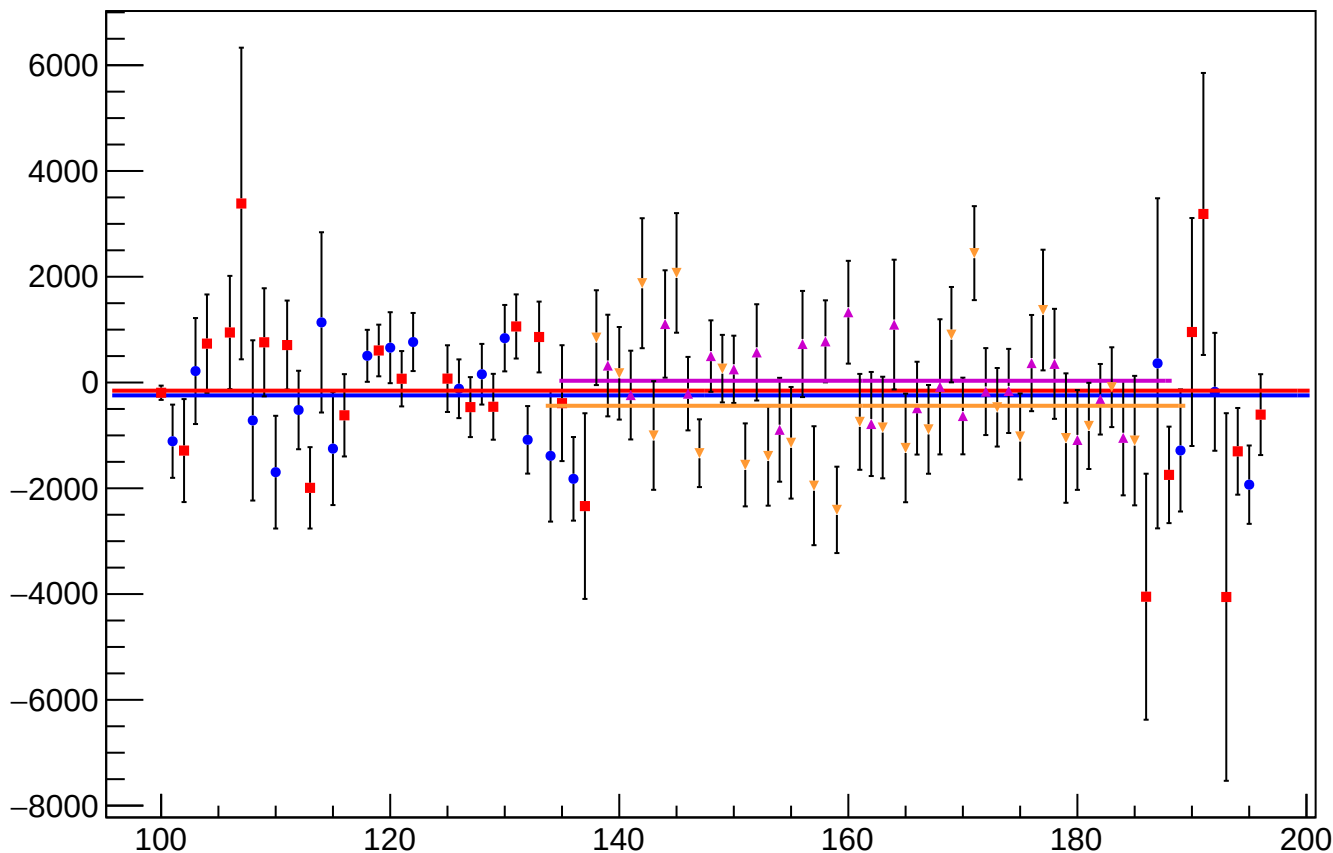
Right: 575.372+/-0.105 χ^2/NDF : 6168390.4/44

In: 567.210+/-0.081 χ^2/NDF :2497346.5/42

Out: 570.409+/-0.079 χ^2/NDF :4539976.0/49

All: 568.838+/-0.057 χ^2/NDF : 7038120.5/92

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -243.373 $\pm$ 171.231 χ^2/NDF : 29.0/19

Left Out: -439.659 $\pm$ 177.808 χ^2/NDF : 43.6/24

Right Out: -153.828 $\pm$ 104.832 χ^2/NDF : 35.2/24

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

Left: -205.215 $\pm$ 126.273 χ^2/NDF : 59.2/47

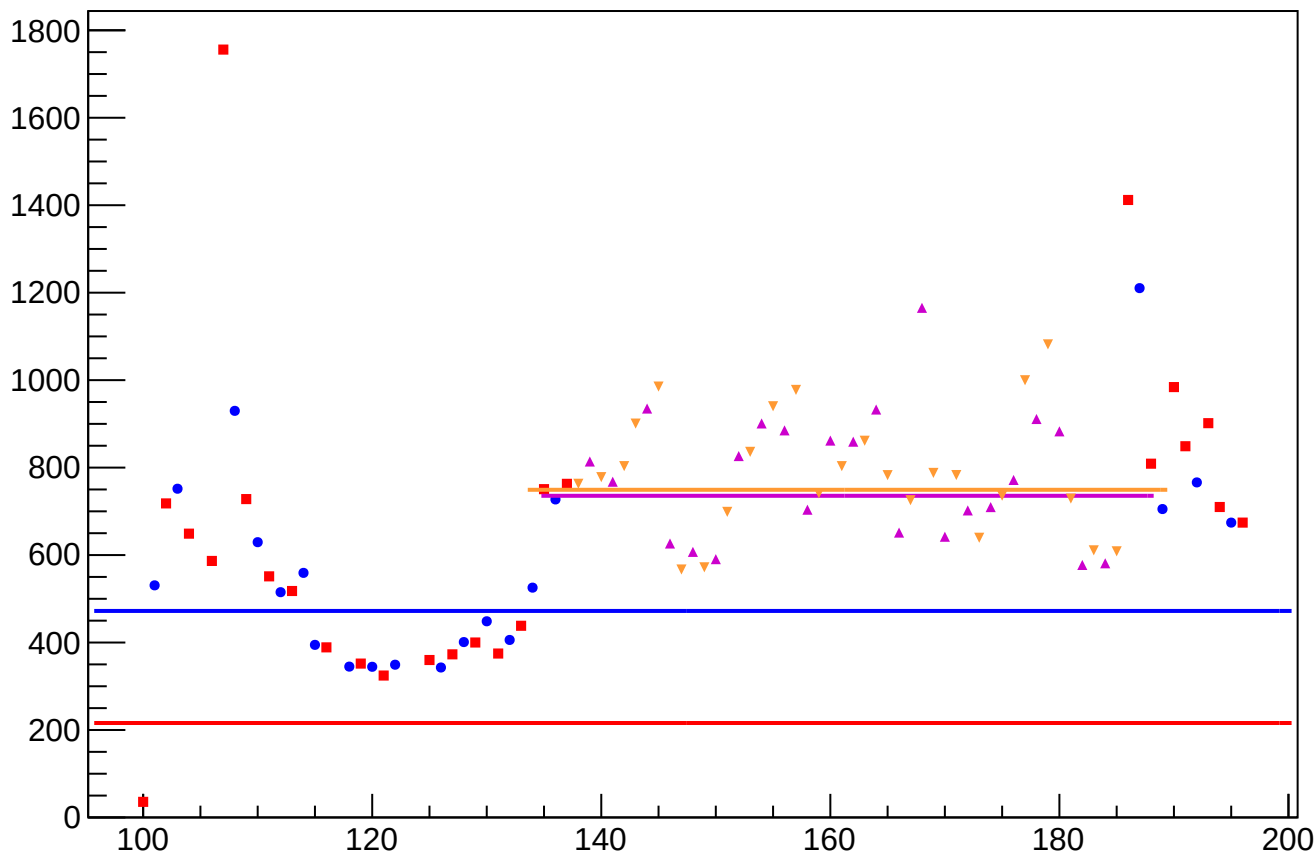
Right: -178.241 $\pm$ 89.407 χ^2/NDF : 64.4/44

In: -111.433 $\pm$ 123.851 χ^2/NDF : 42.4/42

Out: -227.556 $\pm$ 90.305 χ^2/NDF : 80.7/49

All: -187.249 $\pm$ 72.968 χ^2/NDF : 123.7/92

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 472.229 $\pm$ 0.121 χ^2/NDF : 1581539.1/19

Left Out: 749.270 $\pm$ 0.126 χ^2/NDF : 1054352.9/24

Right Out: 215.985 $\pm$ 0.074 χ^2/NDF : 11513209.9/24

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

Left: 742.466 $\pm$ 0.089 χ^2/NDF : 2165483.4/47

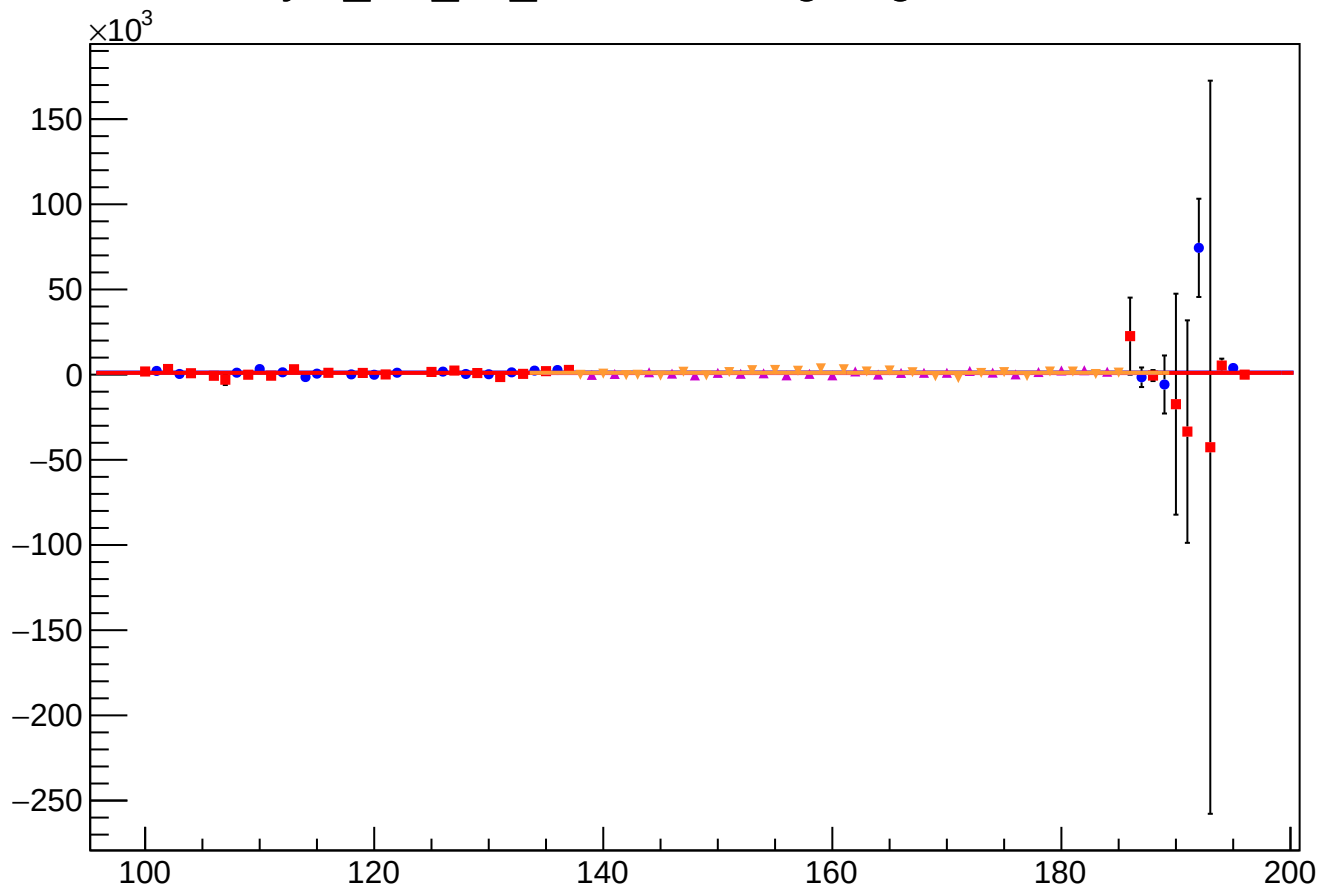
Right: 285.846 $\pm$ 0.063 χ^2/NDF : 16352577.3/44

In: 597.787 $\pm$ 0.088 χ^2/NDF : 4941956.8/42

Out: 353.542 $\pm$ 0.064 χ^2/NDF : 25917542.5/49

All: 438.322 $\pm$ 0.052 χ^2/NDF : 35937839.4/92

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1227.978 ± 293.120 χ^2/NDF : 19.8/19

Left Out: 1096.531 ± 227.868 χ^2/NDF : 38.4/24

Right Out: 1044.683 ± 278.006 χ^2/NDF : 25.3/24

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

Left: 1011.528 ± 161.243 χ^2/NDF : 53.8/47

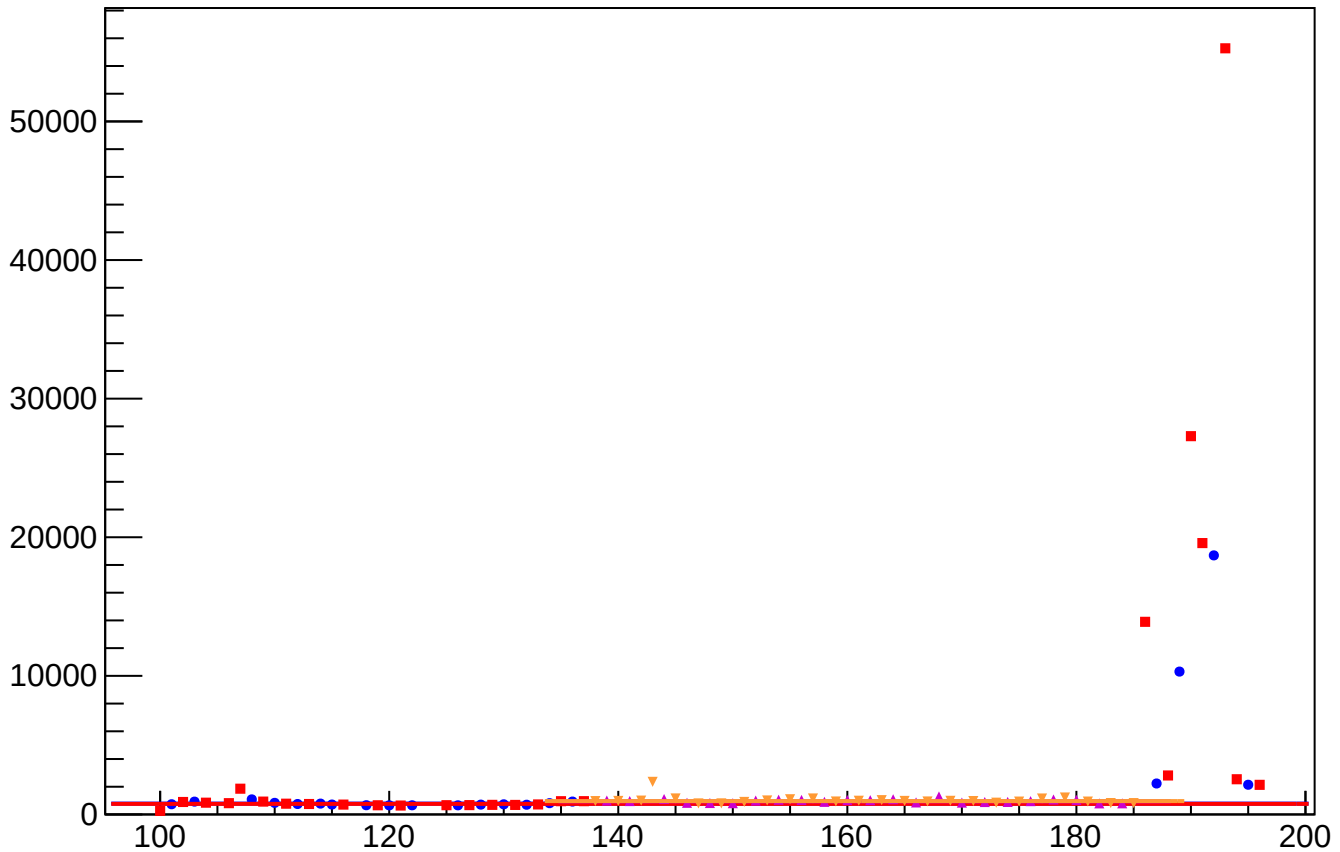
Right: 1131.483 ± 201.712 χ^2/NDF : 45.3/44

In: 1040.131 ± 180.064 χ^2/NDF : 35.6/42

Out: 1075.696 ± 176.233 χ^2/NDF : 63.8/49

All: 1058.295 ± 125.948 χ^2/NDF : 99.3/92

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 783.641+/-0.207 χ^2/NDF : 2474156.5/19

Left Out: 963.933+/-0.161 χ^2/NDF :1003095.2/24

Right Out: 763.257+/-0.197 χ^2/NDF : 4175058.2/24

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

Left: 955.000+/-0.114 χ^2/NDF : 1510694.5/47

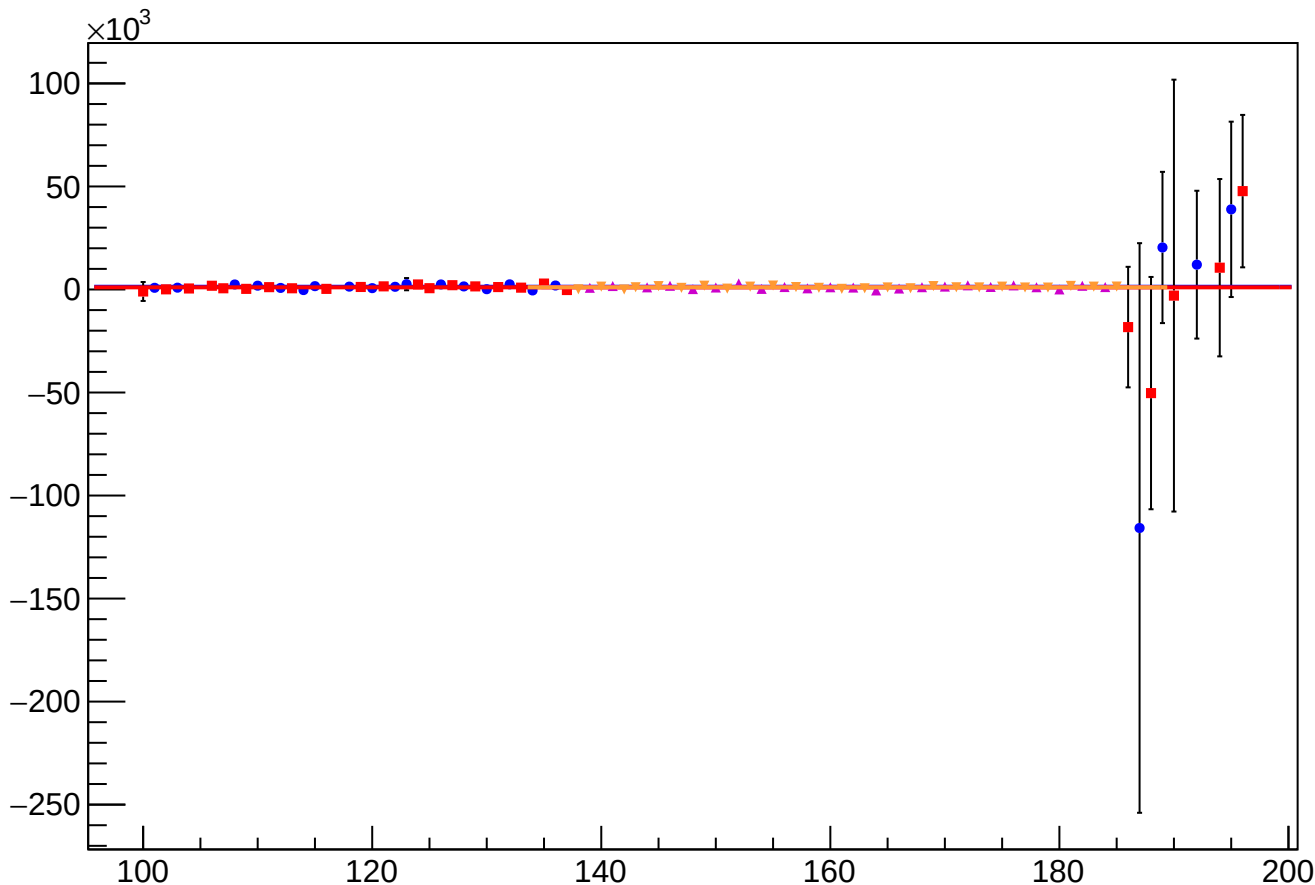
Right: 772.910+/-0.143 χ^2/NDF : 6654306.6/44

In: 884.757+/-0.127 χ^2/NDF :3357845.9/42

Out: 883.291+/-0.125 χ^2/NDF :5801487.4/49

All: 884.008+/-0.089 χ^2/NDF : 9159401.0/92

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.824 $\pm$ 218.589 χ^2 /NDF: 14.6/20

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

Right Out: 1040.511 $\pm$ 212.066 χ^2 /NDF: 16.4/23

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

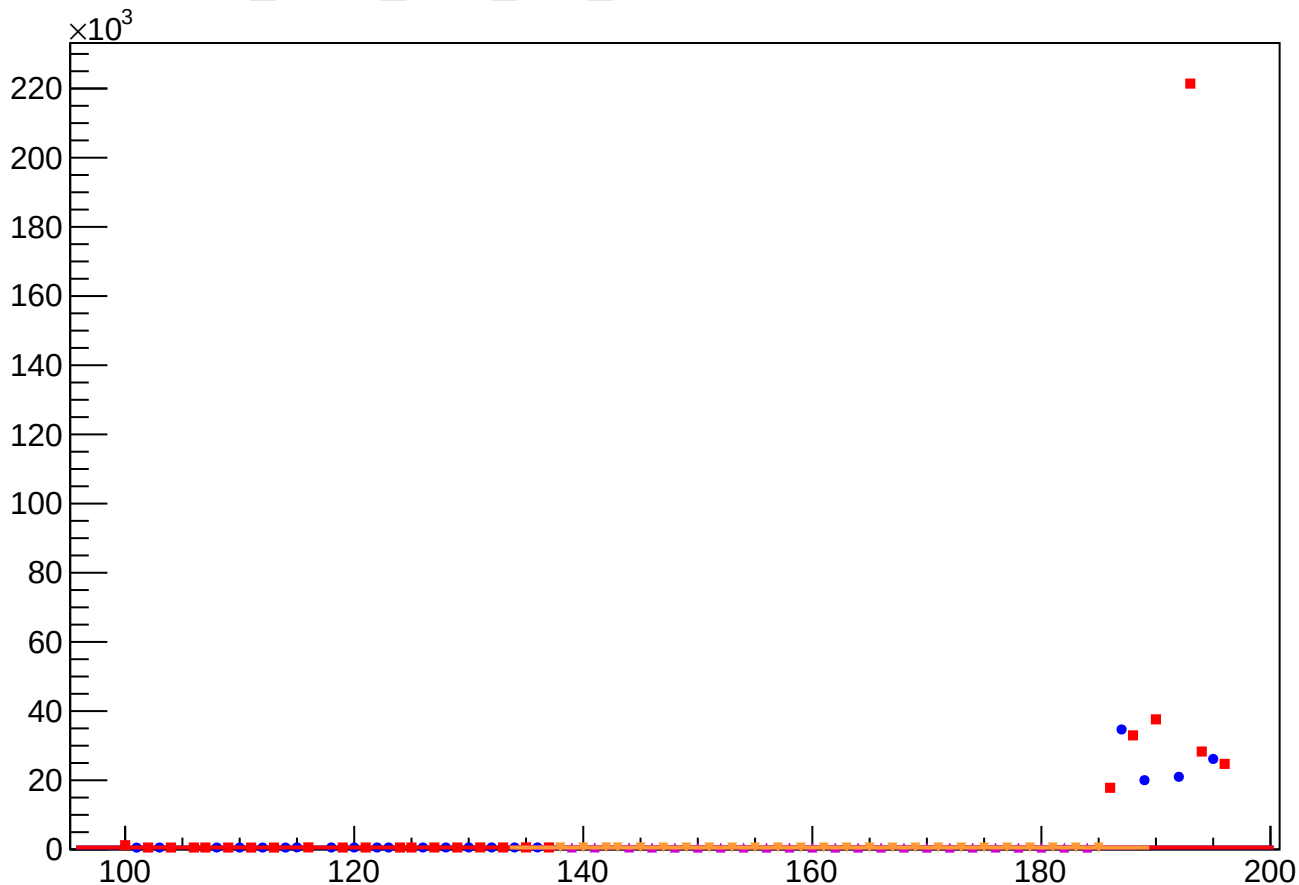
Right: 1178.847 $\pm$ 152.207 χ^2 /NDF: 31.9/44

In: 1178.523 $\pm$ 113.723 χ^2 /NDF:45.3/43

Out: 1064.612 $\pm$ 110.640 χ^2 /NDF:31.6/48

All: 1120.003 $\pm$ 79.302 χ^2 /NDF: 77.4/92

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 565.746 $\pm$ 0.155 χ^2 /NDF: 2085859.9/20

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

Right Out: 568.357 $\pm$ 0.150 χ^2 /NDF: 3500590.8/24

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

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

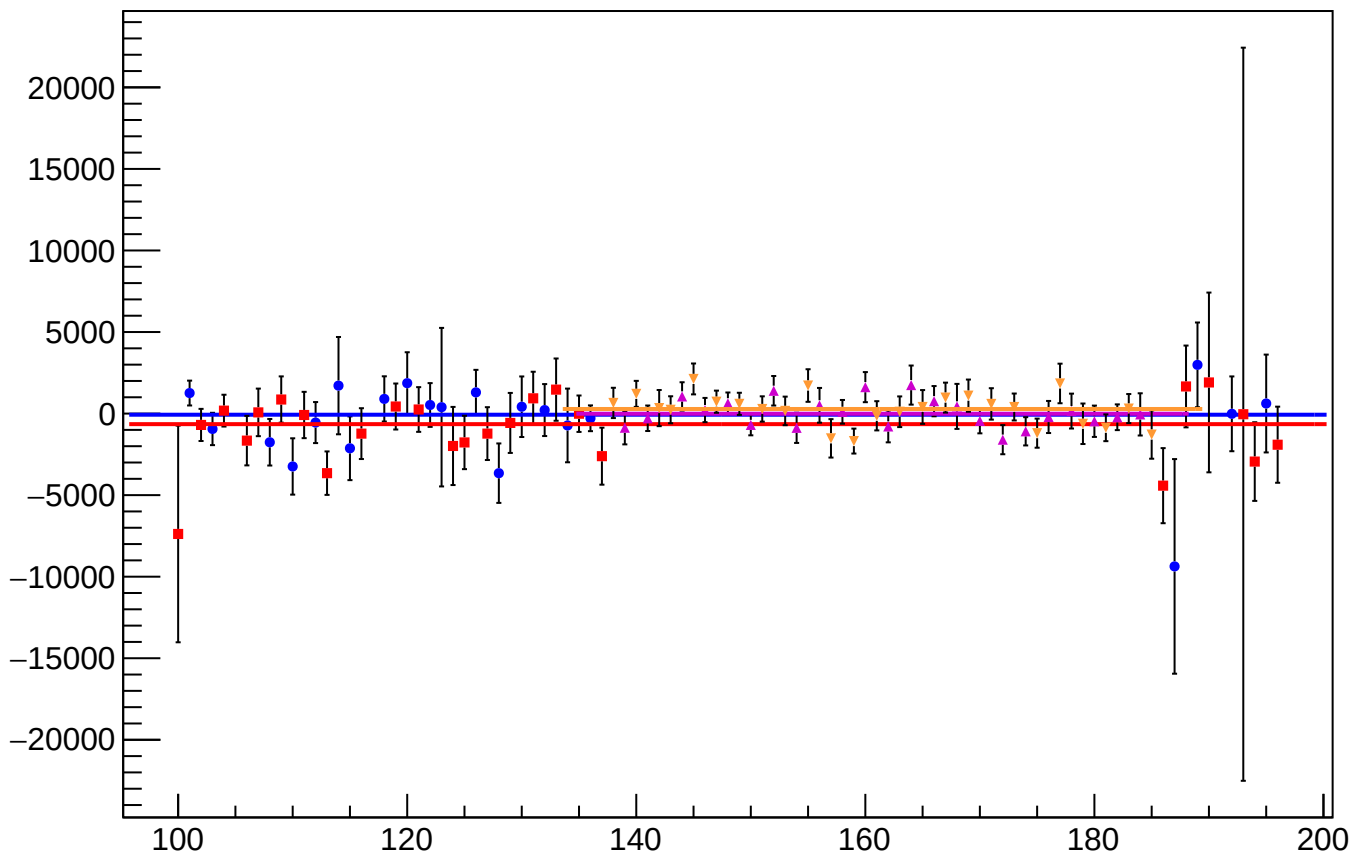
Right: 567.091 $\pm$ 0.108 χ^2 /NDF: 5586597.6/45

In: 559.345 $\pm$ 0.080 χ^2 /NDF:2099421.4/43

Out: 560.480 $\pm$ 0.078 χ^2 /NDF:3519134.5/49

All: 559.928 $\pm$ 0.056 χ^2 /NDF: 5618658.4/93

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -69.797 ± 320.213 $\chi^2/\text{NDF}: 20.5/20$

Left Out: 281.875 ± 180.423 $\chi^2/\text{NDF}: 26.7/24$

Right Out: -647.779 ± 320.133 $\chi^2/\text{NDF}: 19.6/24$

Left In: -8.211 ± 183.382 $\chi^2/\text{NDF}: 20.2/22$

Left: 139.190 ± 128.612 $\chi^2/\text{NDF}: 48.2/47$

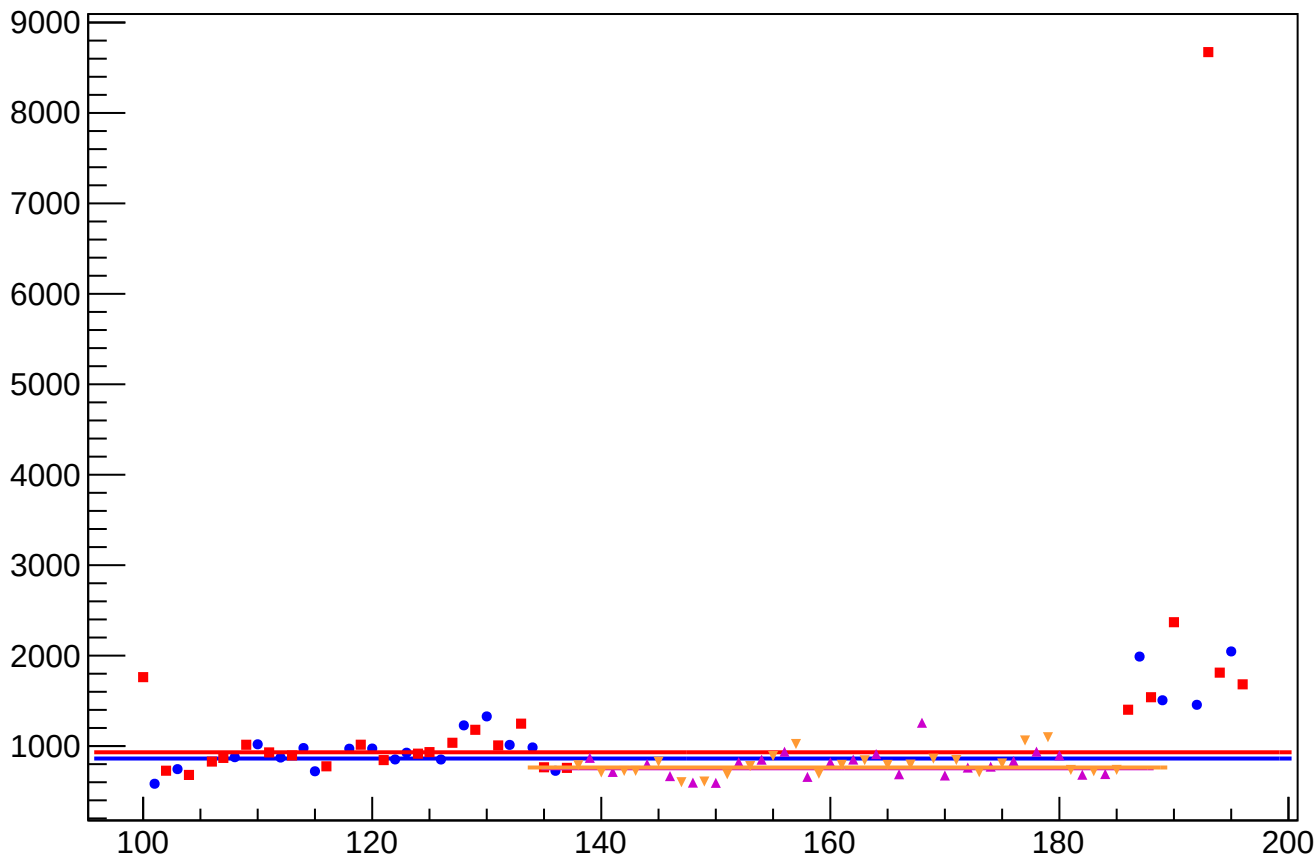
Right: -358.859 ± 226.397 $\chi^2/\text{NDF}: 41.7/45$

In: -23.421 ± 159.133 $\chi^2/\text{NDF}: 40.7/43$

Out: 57.770 ± 157.179 $\chi^2/\text{NDF}: 52.7/49$

All: 17.676 ± 111.827 $\chi^2/\text{NDF}: 93.5/93$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 862.128+/-0.226 χ^2/NDF : 1263570.0/20

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

Right Out: 931.264+/-0.226 χ^2/NDF : 1523774.4/24

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

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

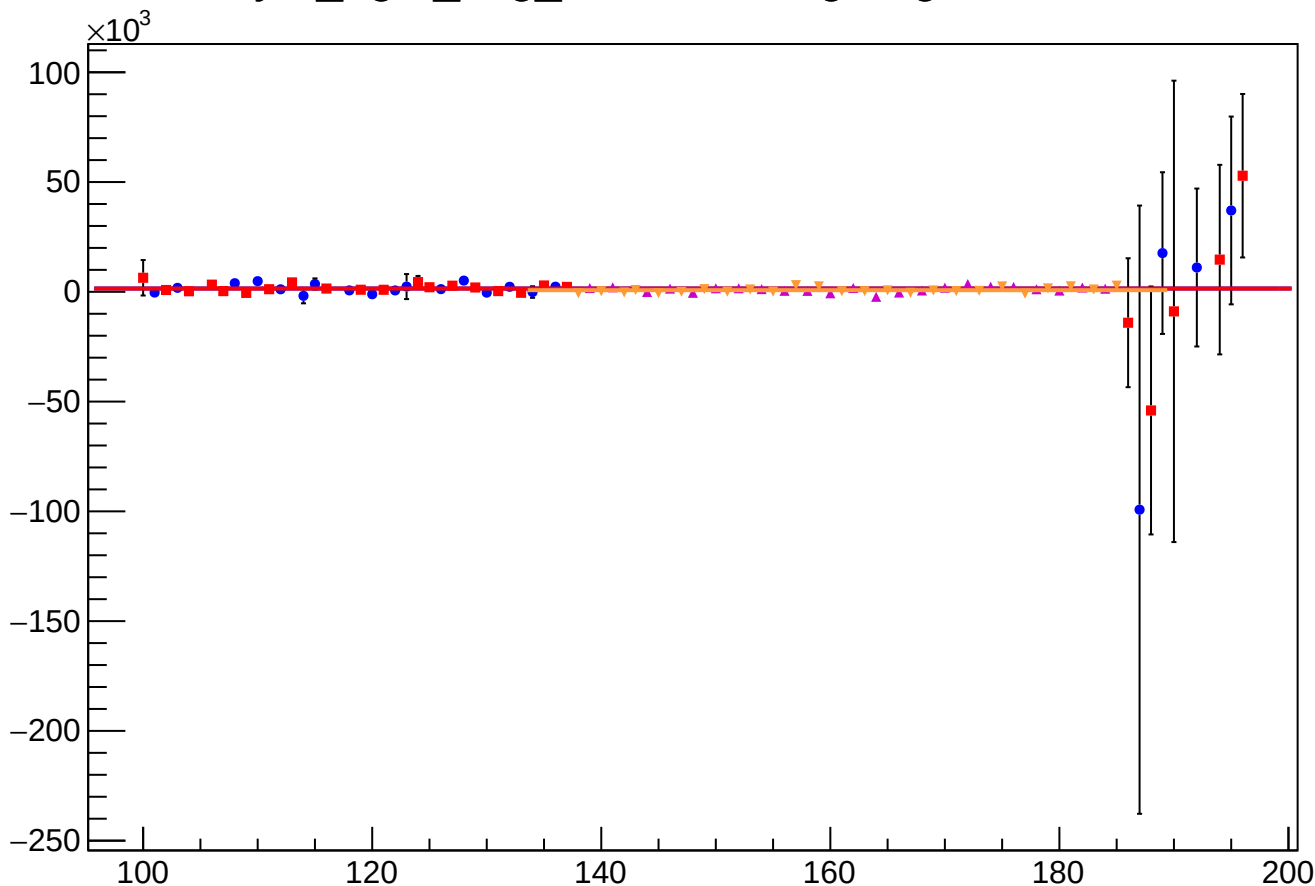
Right: 896.704+/-0.160 χ^2/NDF : 2833971.8/45

In: 780.779+/-0.113 χ^2/NDF : 2366812.5/43

Out: 803.626+/-0.111 χ^2/NDF : 2696382.4/49

All: 792.344+/-0.079 χ^2/NDF : 5084063.5/93

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1503.396 $\pm$ 402.598 χ^2 /NDF: 18.6/20

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

Right Out: 1488.998 $\pm$ 400.627 χ^2 /NDF: 15.3/23

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

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

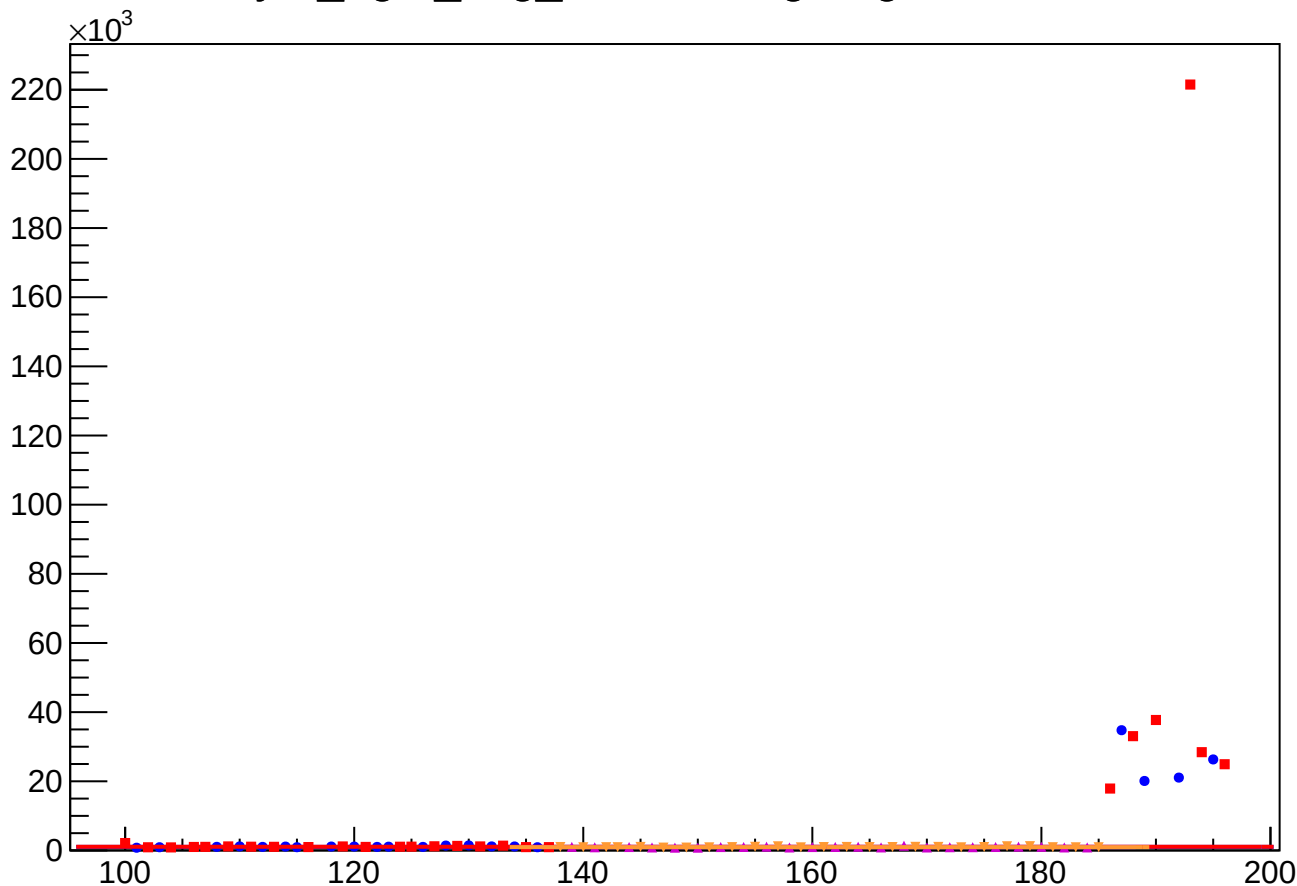
Right: 1496.162 $\pm$ 283.980 χ^2 /NDF: 33.9/44

In: 1217.838 $\pm$ 199.750 χ^2 /NDF: 44.6/43

Out: 919.975 $\pm$ 196.533 χ^2 /NDF: 39.5/48

All: 1066.488 $\pm$ 140.093 χ^2 /NDF: 85.2/92

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1029.376 $\pm$ 0.285 χ^2 /NDF: 2327233.7/20

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

Right Out: 1068.452 $\pm$ 0.283 χ^2 /NDF: 3557227.6/24

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

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

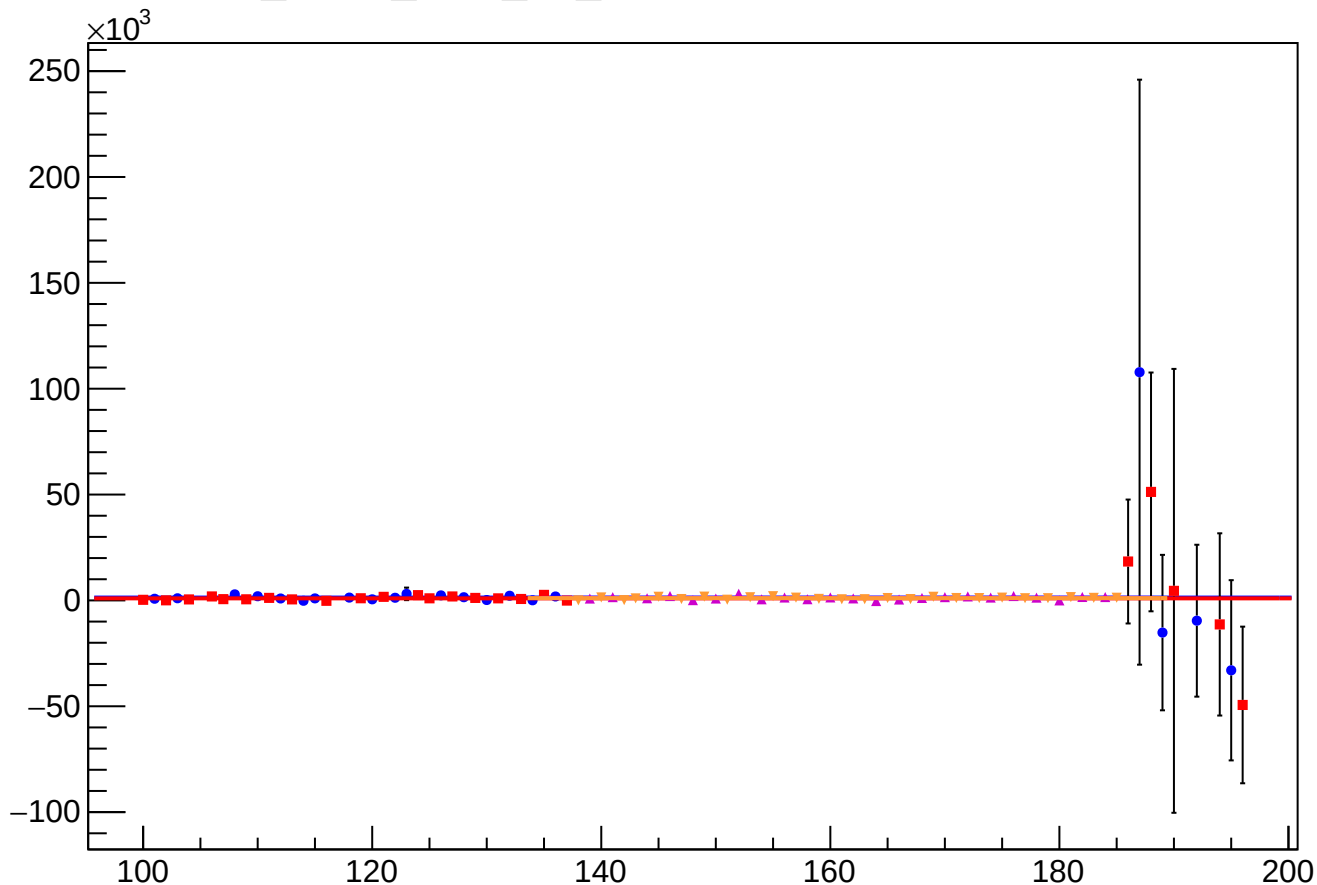
Right: 1049.010 $\pm$ 0.201 χ^2 /NDF: 5893928.4/45

In: 973.040 $\pm$ 0.141 χ^2 /NDF:2822578.0/43

Out: 987.812 $\pm$ 0.139 χ^2 /NDF:4026877.6/49

All: 980.546 $\pm$ 0.099 χ^2 /NDF: 6855013.3/93

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1343.766 $\pm$ 218.843 χ^2/NDF : 13.5/20

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

Right Out: 965.135 $\pm$ 208.601 χ^2/NDF : 15.3/23

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

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

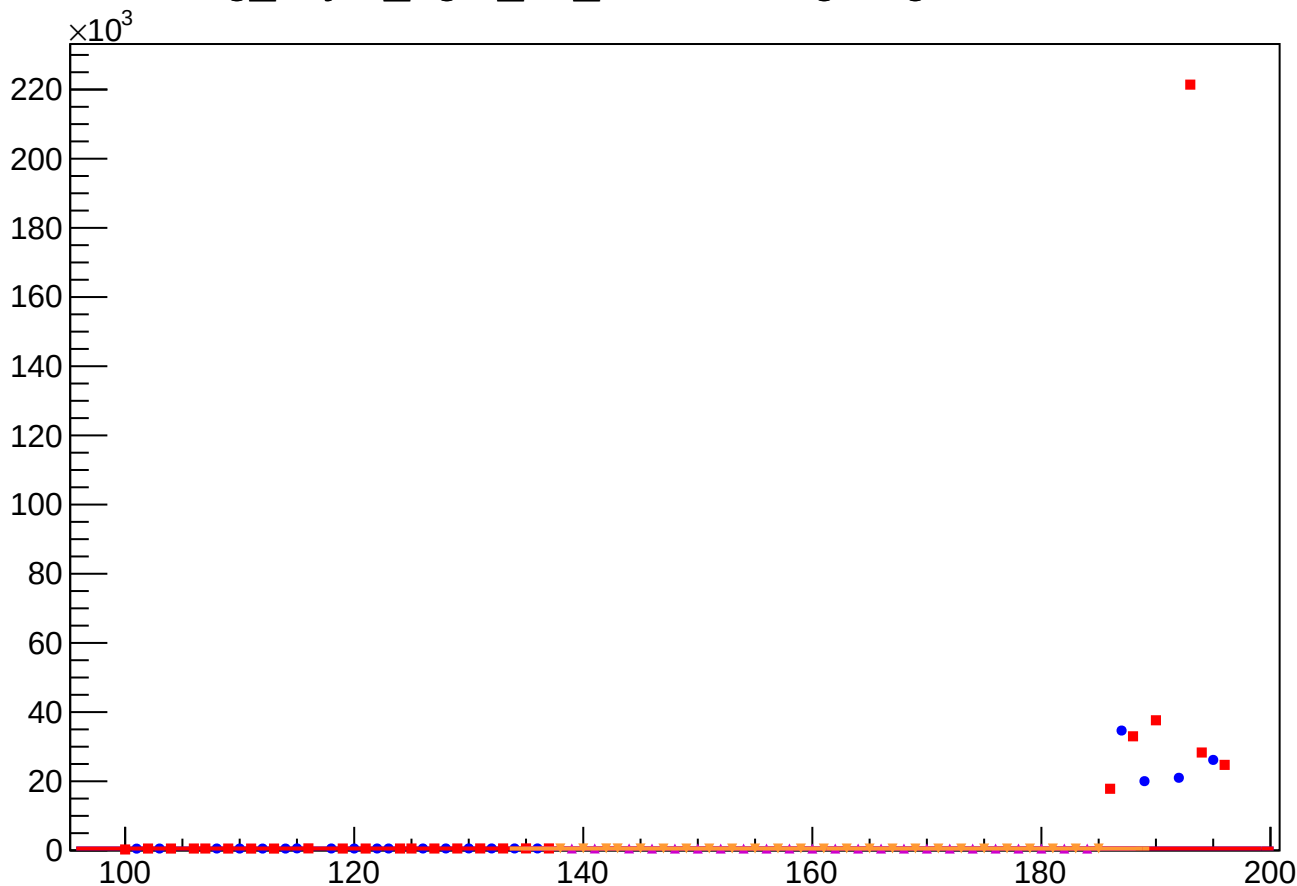
Right: 1145.383 $\pm$ 150.994 χ^2/NDF : 30.4/44

In: 1231.239 $\pm$ 113.852 χ^2/NDF : 46.1/43

Out: 1053.429 $\pm$ 110.220 χ^2/NDF : 30.5/48

All: 1139.452 $\pm$ 79.190 χ^2/NDF : 77.8/92

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 566.403 $\pm$ 0.155 χ^2 /NDF: 2085940.8/20

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

Right Out: 557.394 $\pm$ 0.148 χ^2 /NDF: 3586808.9/24

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

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

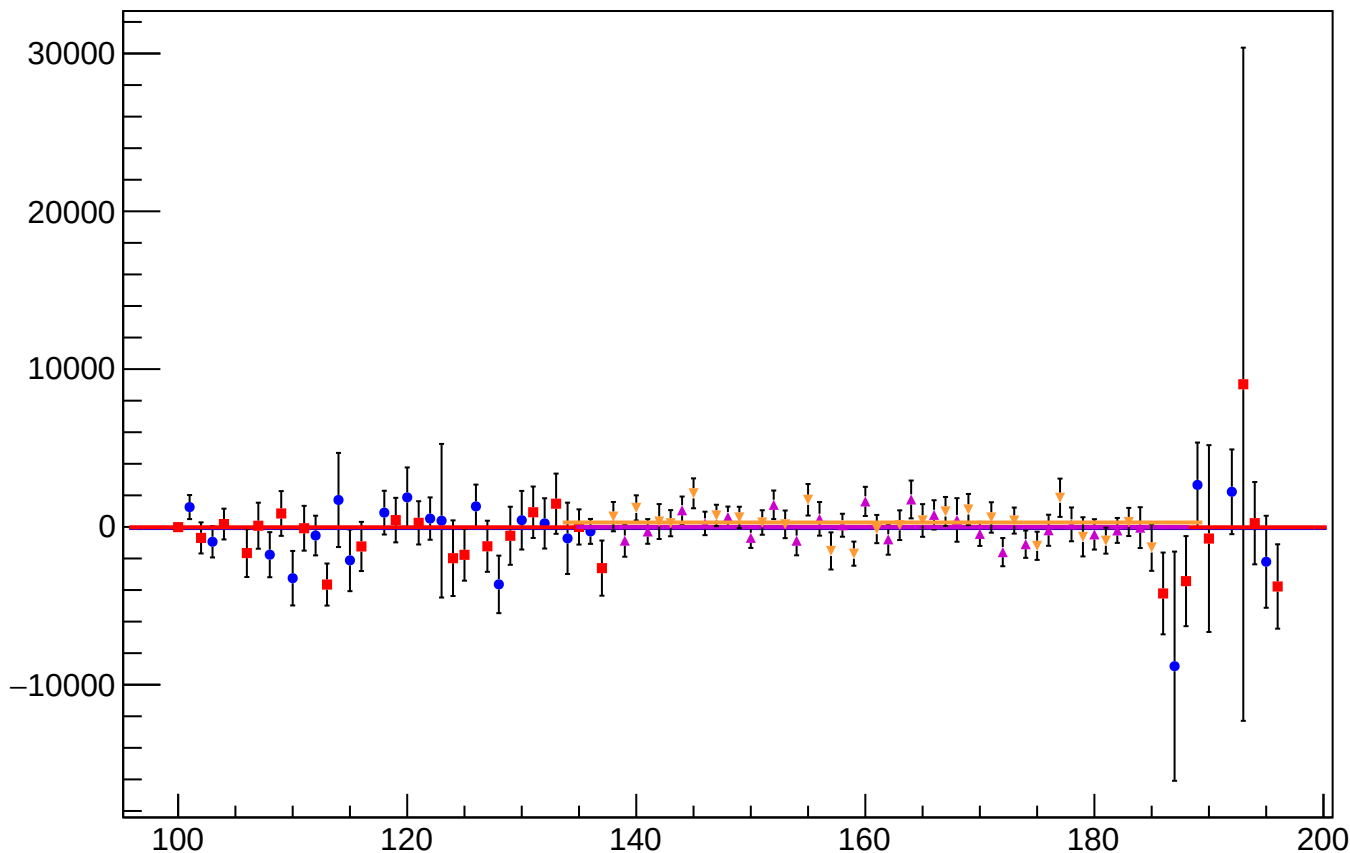
Right: 561.683 $\pm$ 0.107 χ^2 /NDF: 5674525.6/45

In: 559.980 $\pm$ 0.081 χ^2 /NDF:2099579.9/43

Out: 557.902 $\pm$ 0.078 χ^2 /NDF:3601610.6/49

All: 558.908 $\pm$ 0.056 χ^2 /NDF: 5701534.4/93

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -72.297 ± 321.273 $\chi^2/\text{NDF}: 20.8/20$

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

Right Out: -22.402 ± 38.938 $\chi^2/\text{NDF}: 22.1/24$

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

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

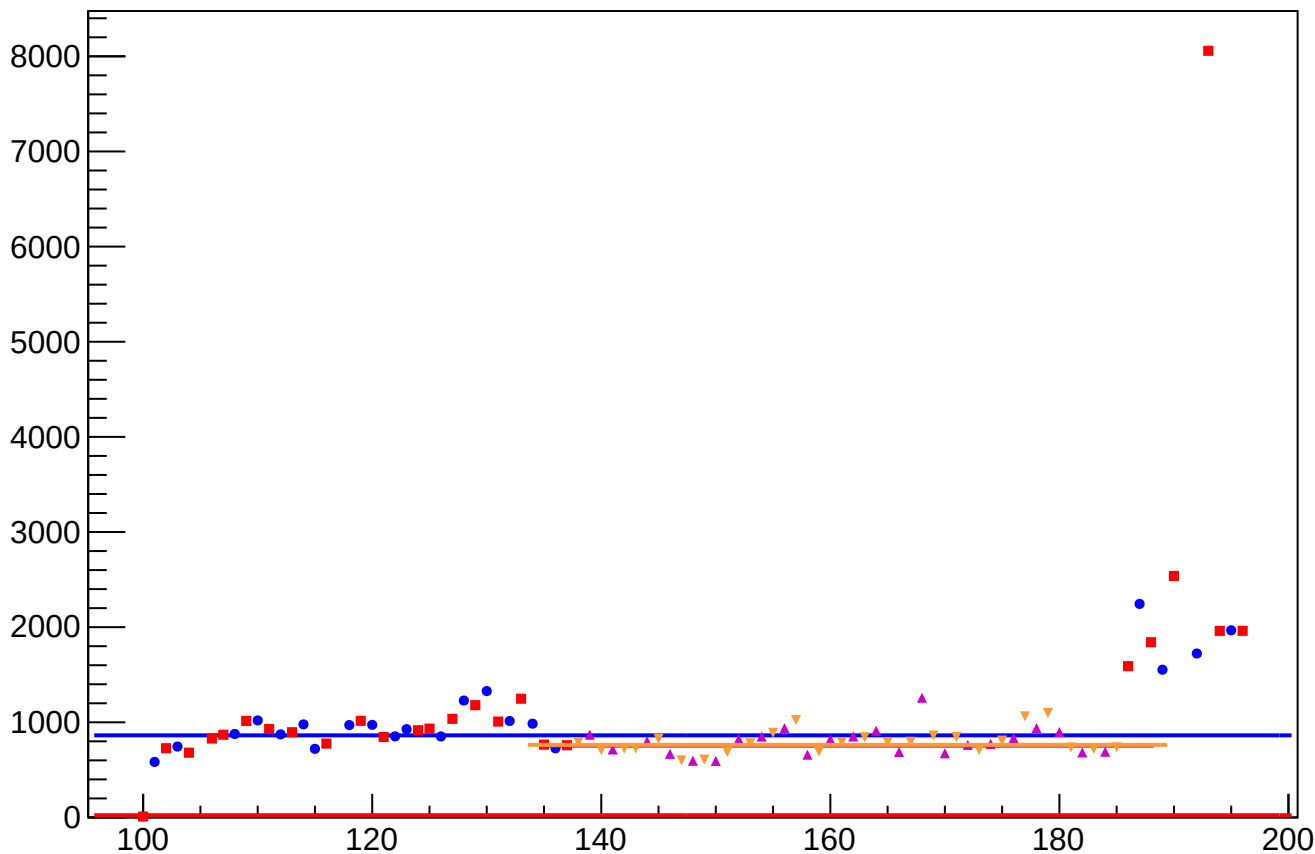
Right: -23.125 ± 38.655 $\chi^2/\text{NDF}: 42.9/45$

In: -23.289 ± 159.323 $\chi^2/\text{NDF}: 41.0/43$

Out: -8.890 ± 38.062 $\chi^2/\text{NDF}: 51.6/49$

All: -9.668 ± 37.020 $\chi^2/\text{NDF}: 92.6/93$

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 862.938 $\pm$ 0.227 χ^2/NDF : 1333134.6/20

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

Right Out: 23.444 $\pm$ 0.028 χ^2/NDF : 17826966.2/24

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

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

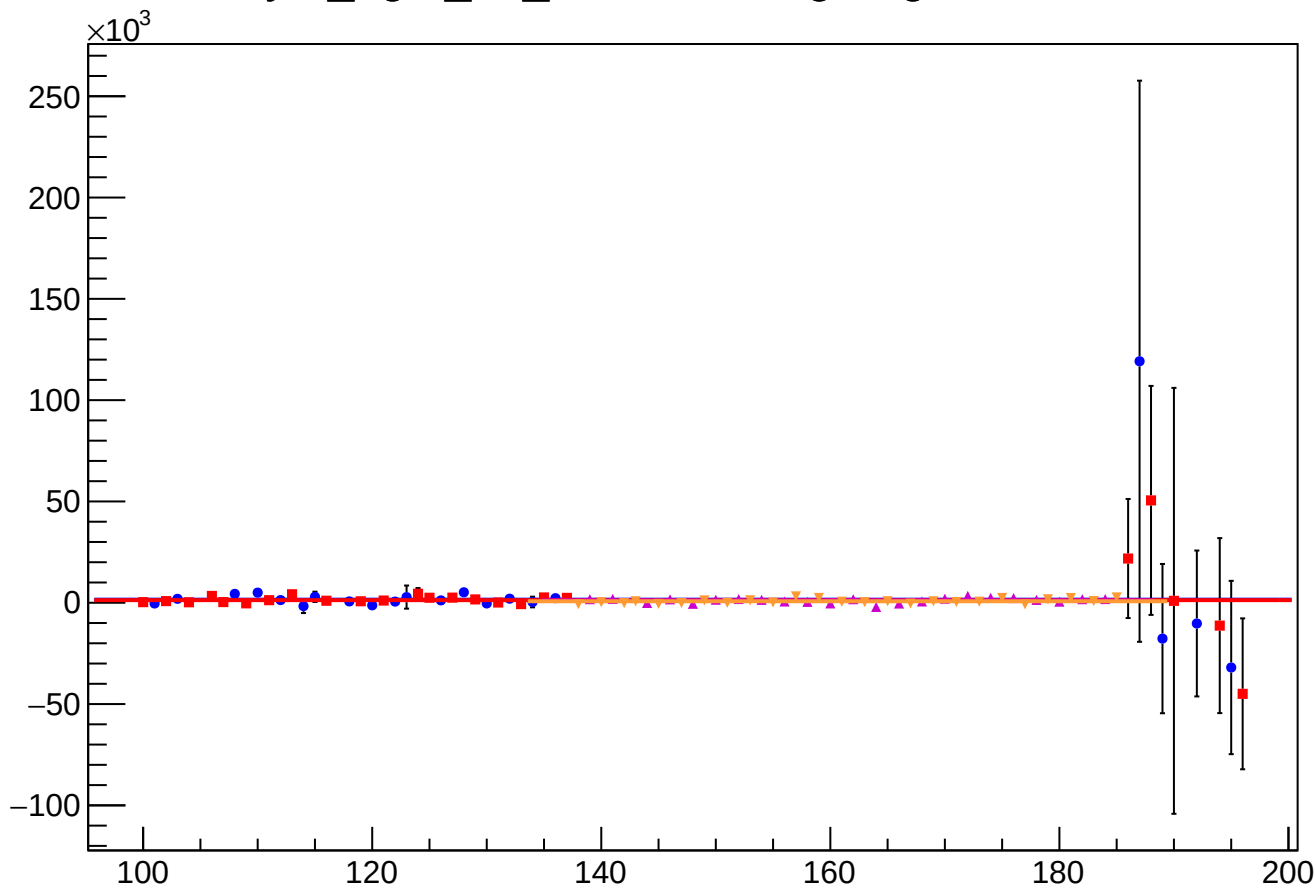
Right: 35.596 $\pm$ 0.027 χ^2/NDF : 32618270.5/45

In: 781.155 $\pm$ 0.113 χ^2/NDF : 2436540.6/43

Out: 56.350 $\pm$ 0.027 χ^2/NDF : 50696956.9/49

All: 95.483 $\pm$ 0.026 χ^2/NDF : 92290604.1/93

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1513.745+/-402.821 χ^2/NDF : 19.5/20

Left Out: 742.825+/-225.658 χ^2/NDF : 20.2/24

Right Out: 1287.409+/-376.604 χ^2/NDF : 15.2/23

Left In: 1176.288+/-230.229 χ^2/NDF : 24.2/22

Left: 955.211+/-161.156 χ^2/NDF : 46.3/47

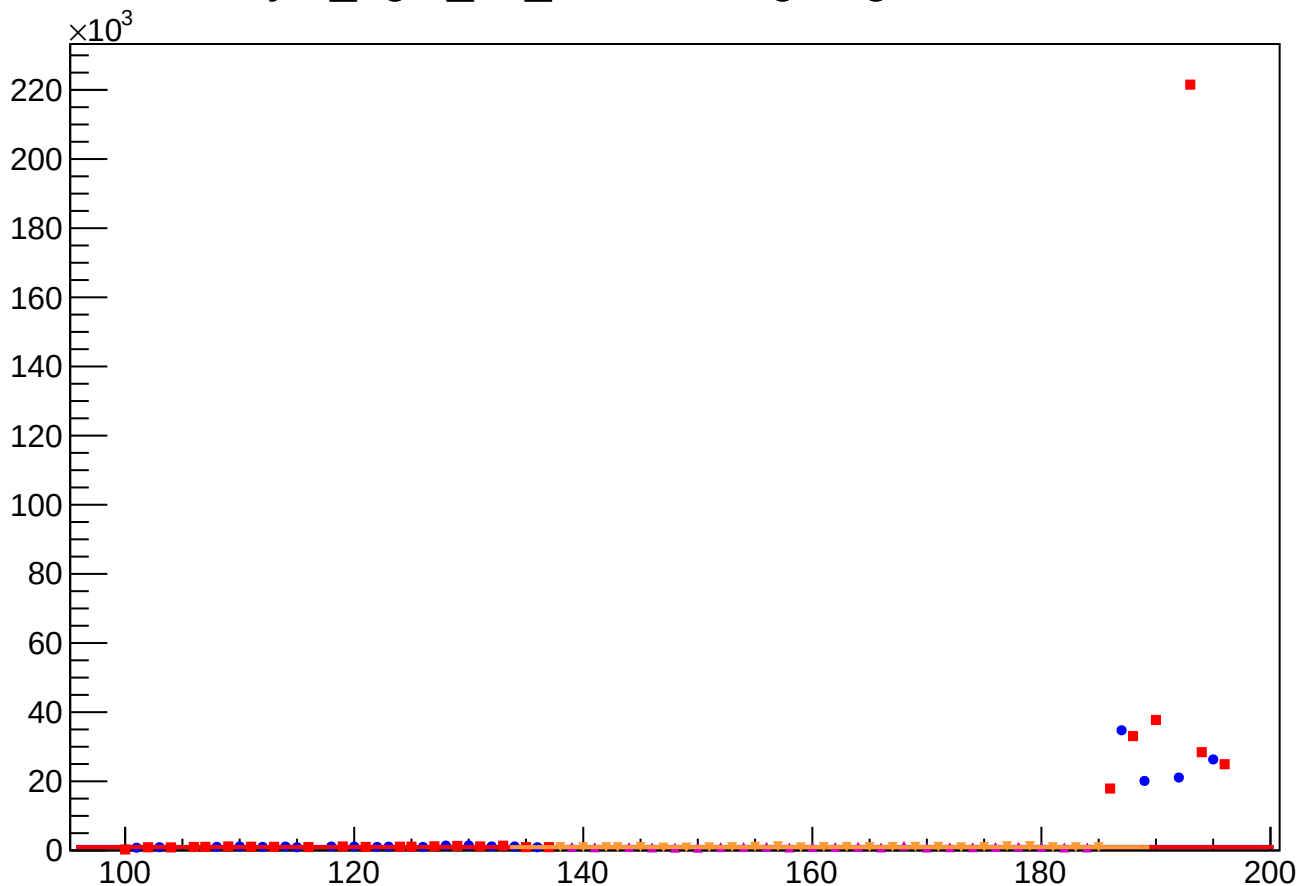
Right: 1392.972+/-275.101 χ^2/NDF : 34.9/44

In: 1259.379+/-199.885 χ^2/NDF : 44.3/43

Out: 886.694+/-193.569 χ^2/NDF : 37.0/48

All: 1067.055+/-139.053 χ^2/NDF : 83.1/92

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1029.952+/-0.285 χ^2/NDF : 2327243.9/20

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

Right Out: 973.506+/-0.266 χ^2/NDF : 4418266.2/24

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

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

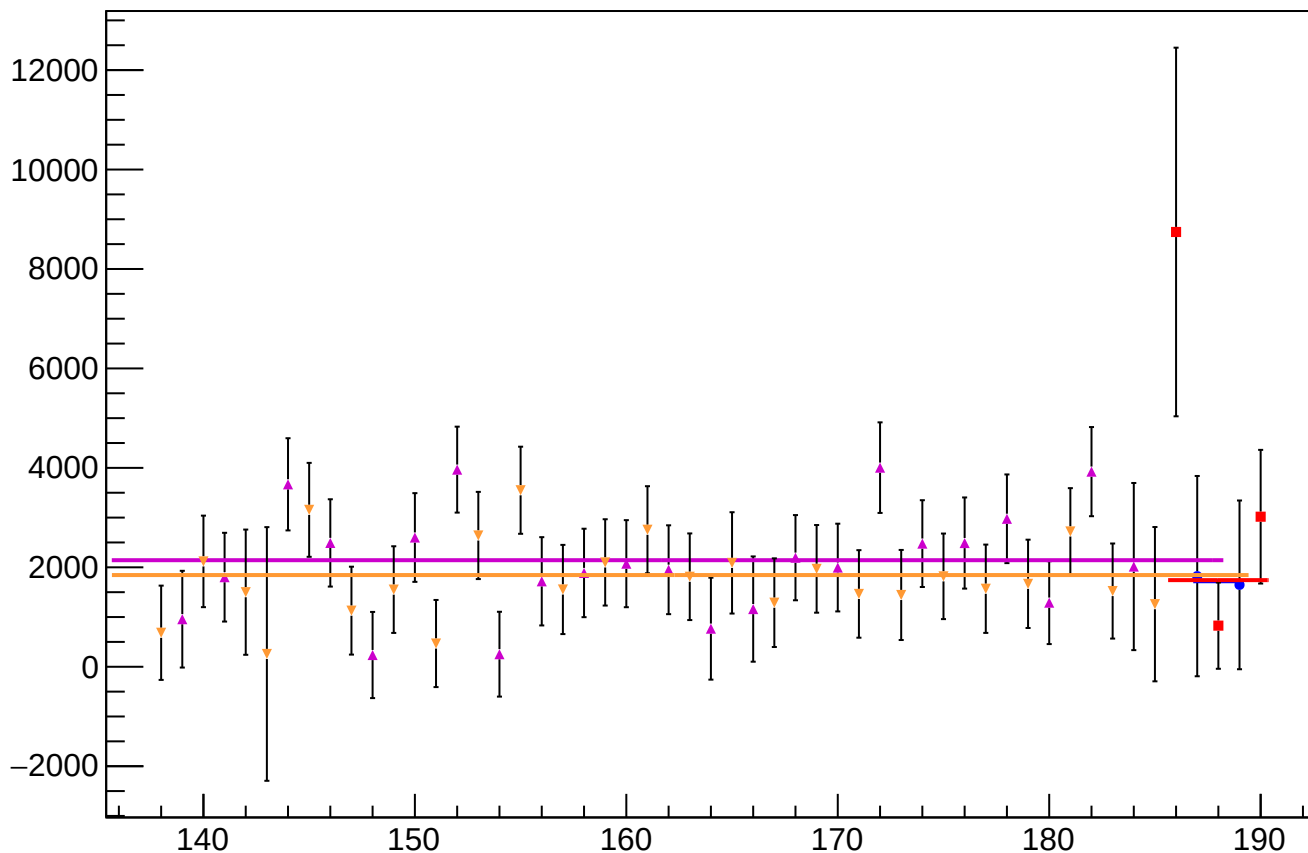
Right: 999.833+/-0.195 χ^2/NDF : 6766464.6/45

In: 973.704+/-0.141 χ^2/NDF : 2822045.8/43

Out: 965.611+/-0.137 χ^2/NDF : 4782298.7/49

All: 969.528+/-0.098 χ^2/NDF : 7606036.5/93

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1844.361+/-186.909 χ^2/NDF :15.4/24

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

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

Left: 1991.243+/-133.294 χ^2/NDF : 49.0/47

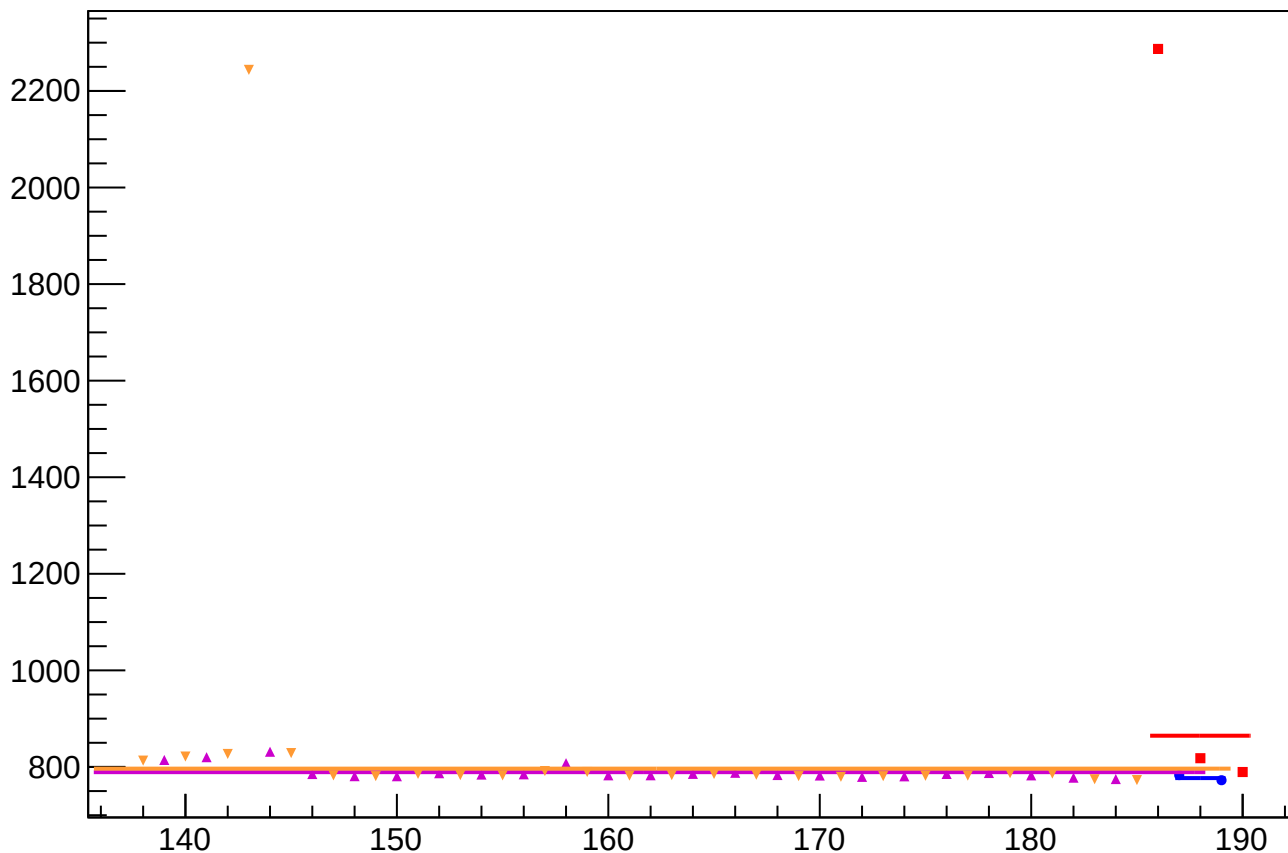
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

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

Out: 1837.843+/-180.837 χ^2/NDF :21.0/27

All: 1980.238+/-130.375 χ^2/NDF : 54.7/52

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

Left Out: 796.470 $\pm$ 0.132 χ^2 /NDF: 658729.4/24

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

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

Left: 792.886 $\pm$ 0.094 χ^2 /NDF: 671086.4/47

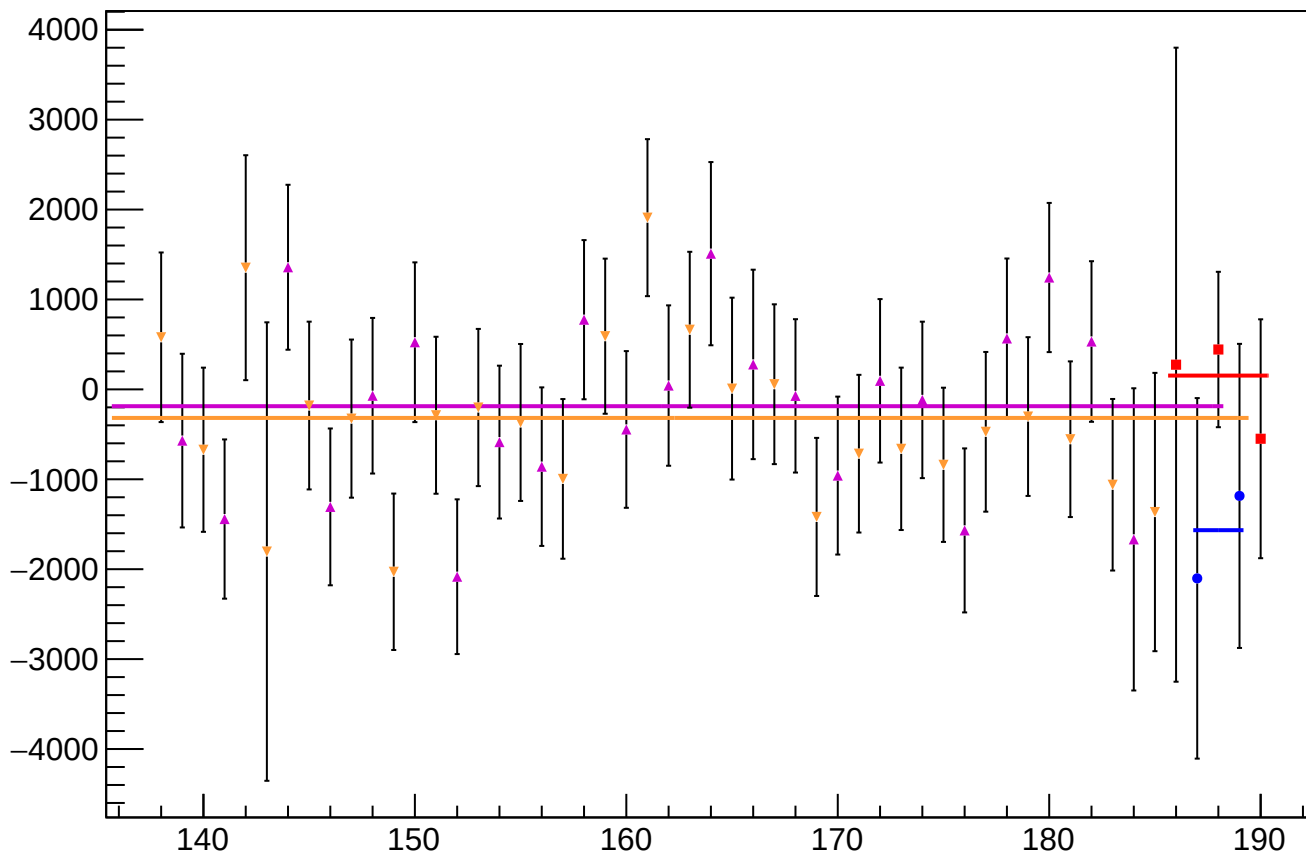
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

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

Out: 800.829 $\pm$ 0.128 χ^2 /NDF: 982233.5/27

All: 795.109 $\pm$ 0.092 χ^2 /NDF: 997468.1/52

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -317.611 $\pm$ 186.045 χ^2 /NDF:20.3/24

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: -253.478 $\pm$ 132.678 χ^2 /NDF: 46.1/47

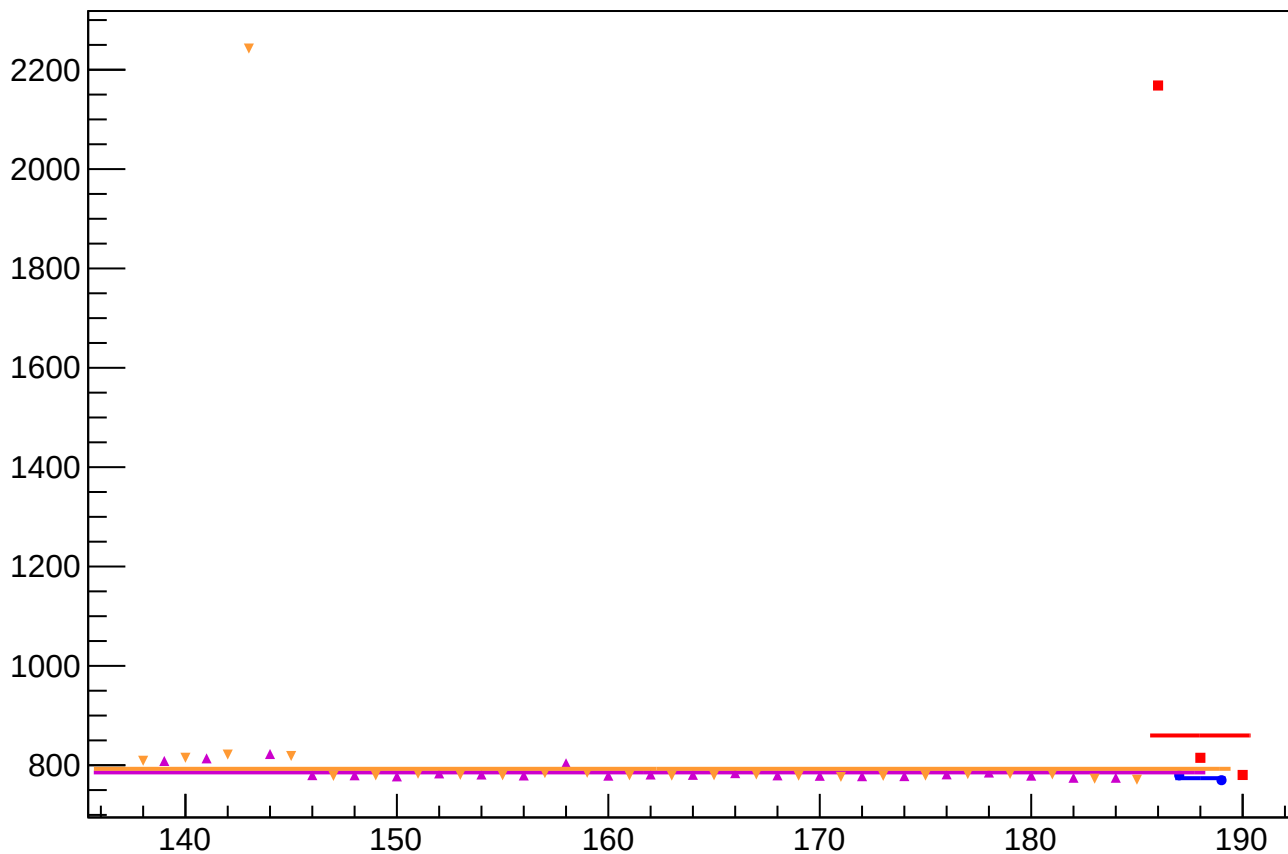
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

Out: -287.322 $\pm$ 179.963 χ^2 /NDF:21.1/27

All: -253.101 $\pm$ 129.759 χ^2 /NDF: 48.0/52

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 792.811 ± 0.132 χ^2/NDF : 659508.7/24

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: 789.249 ± 0.094 χ^2/NDF : 670033.9/47

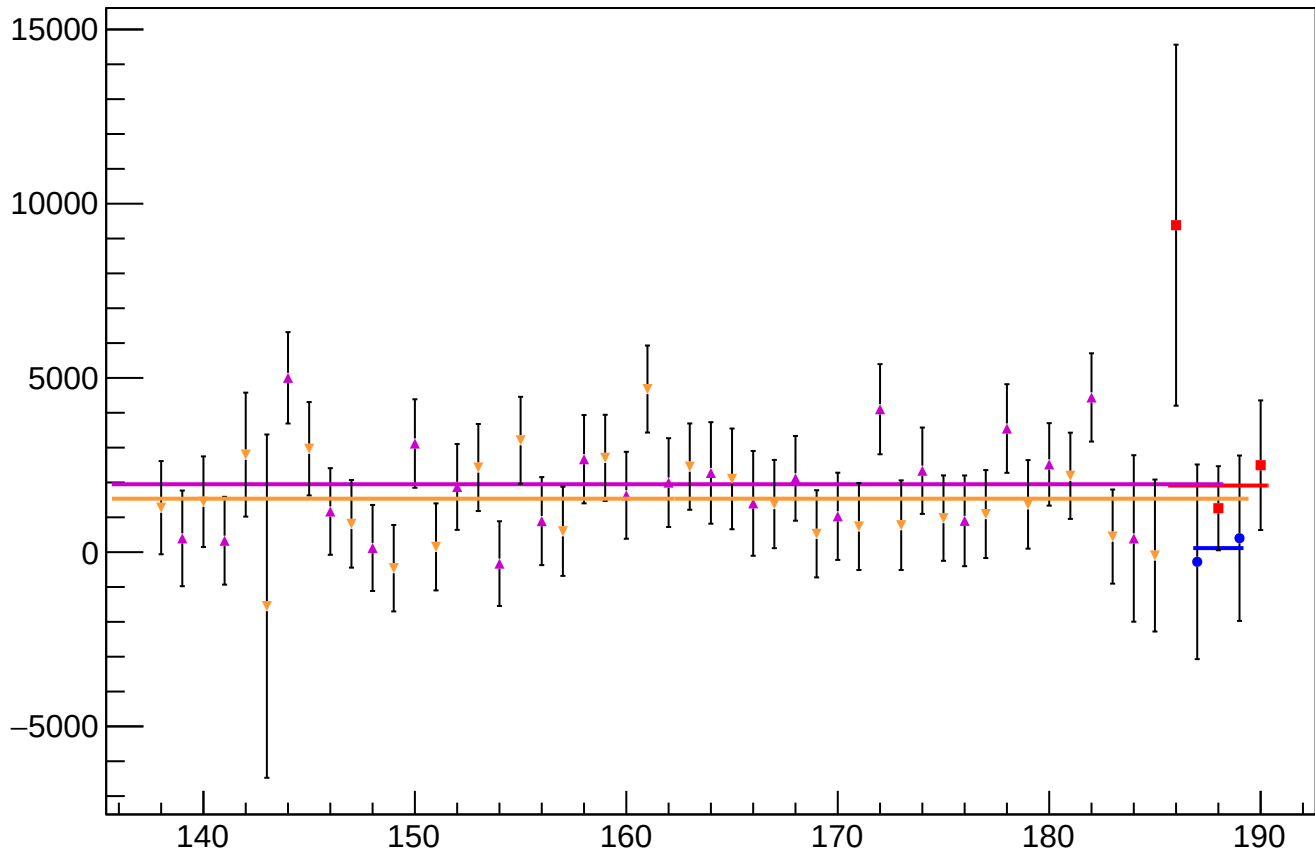
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

Out: 797.126 ± 0.127 χ^2/NDF : 964183.2/27

All: 791.456 ± 0.092 χ^2/NDF : 977536.6/52

cor_asym_usl_mean vs Slug, Sign Corrected



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

Left Out: 1534.720 $\pm$ 265.890 χ^2 /NDF: 20.3/24

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: 1738.660 $\pm$ 189.477 χ^2 /NDF: 48.3/47

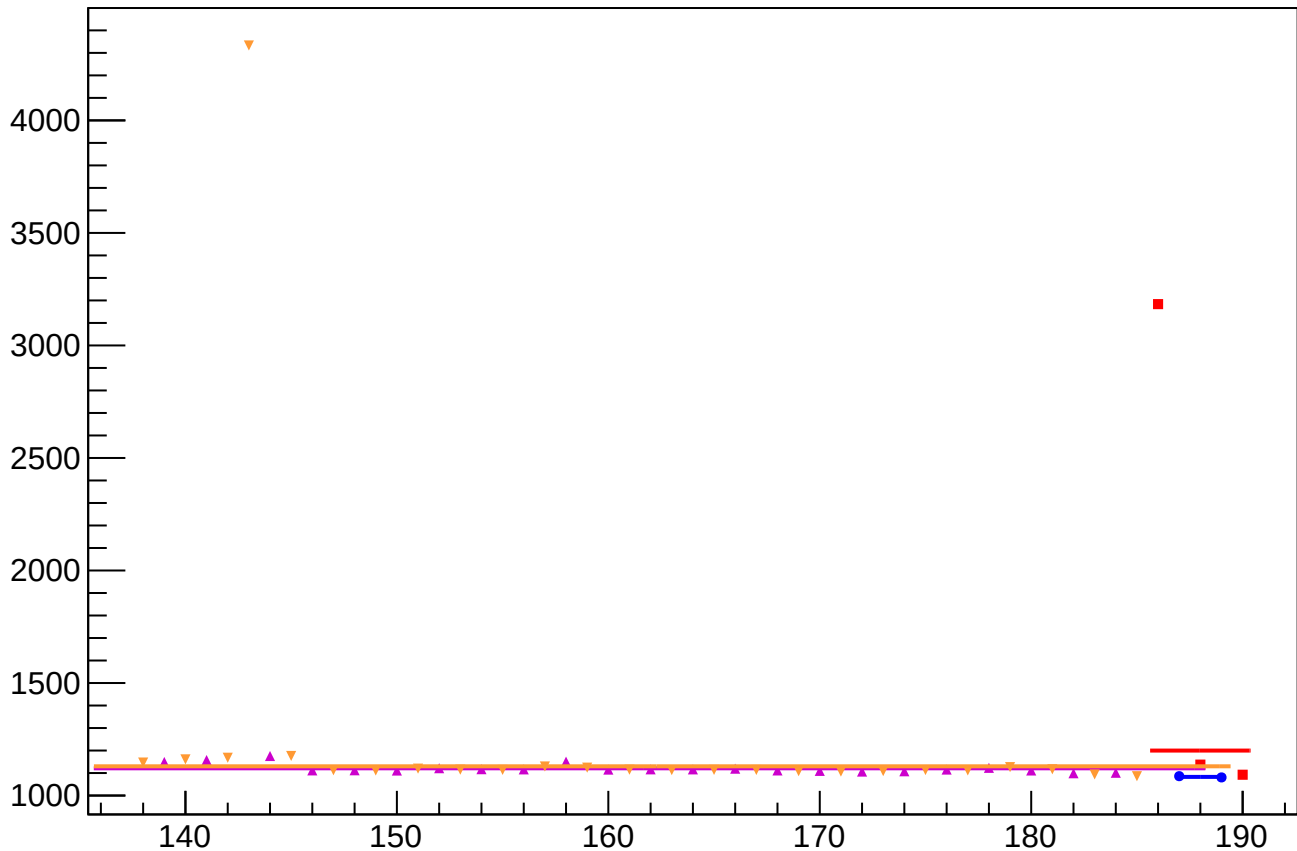
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

Out: 1559.928 $\pm$ 256.846 χ^2 /NDF: 22.9/27

All: 1727.673 $\pm$ 185.143 χ^2 /NDF: 51.6/52

cor_asym_usl_rms vs Slug, Sign Corrected



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

Left Out: 1129.937 $\pm$ 0.188 χ^2 /NDF:858269.9/24

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: 1125.527 $\pm$ 0.134 χ^2 /NDF: 868647.2/47

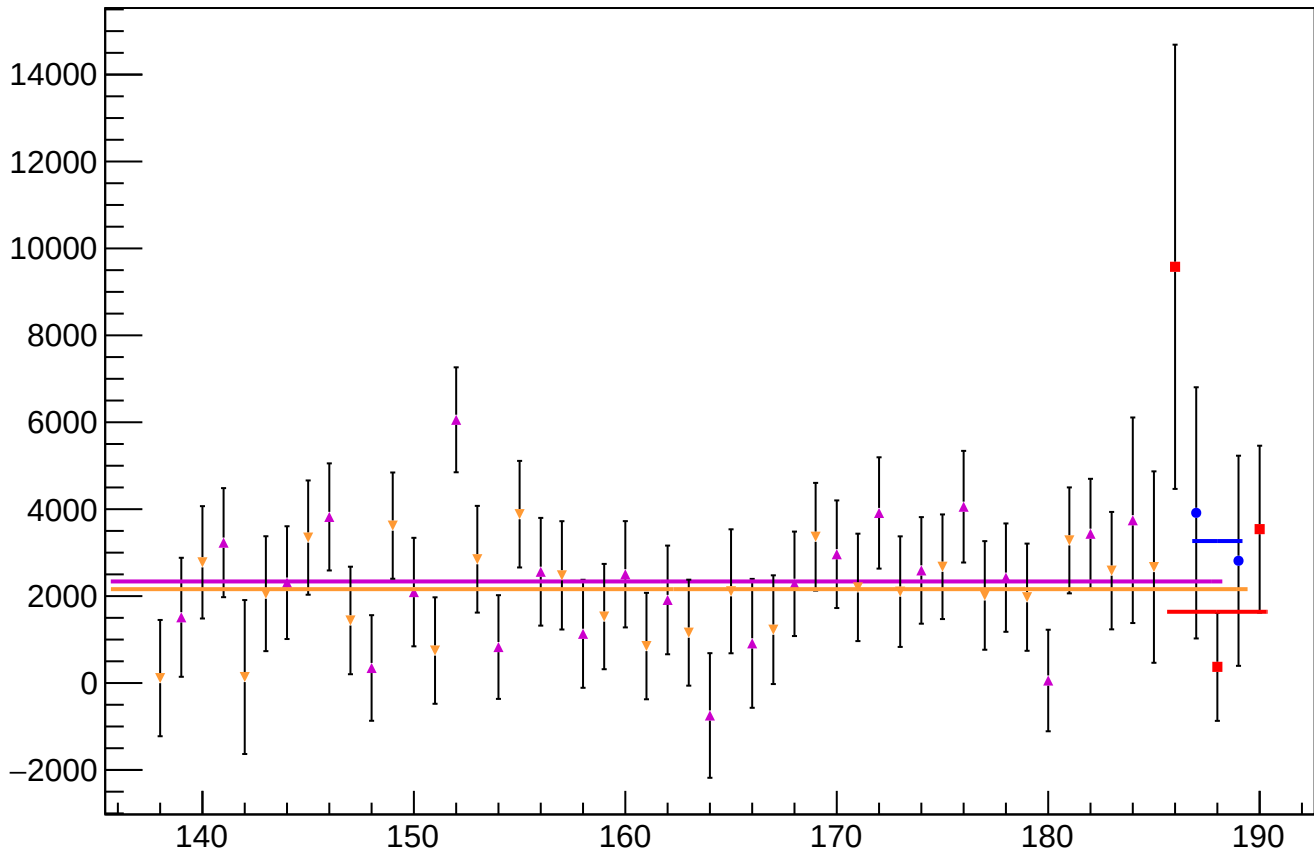
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

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

Out: 1134.612 $\pm$ 0.182 χ^2 /NDF:1172871.0/27

All: 1127.662 $\pm$ 0.131 χ^2 /NDF: 1186051.5/52

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

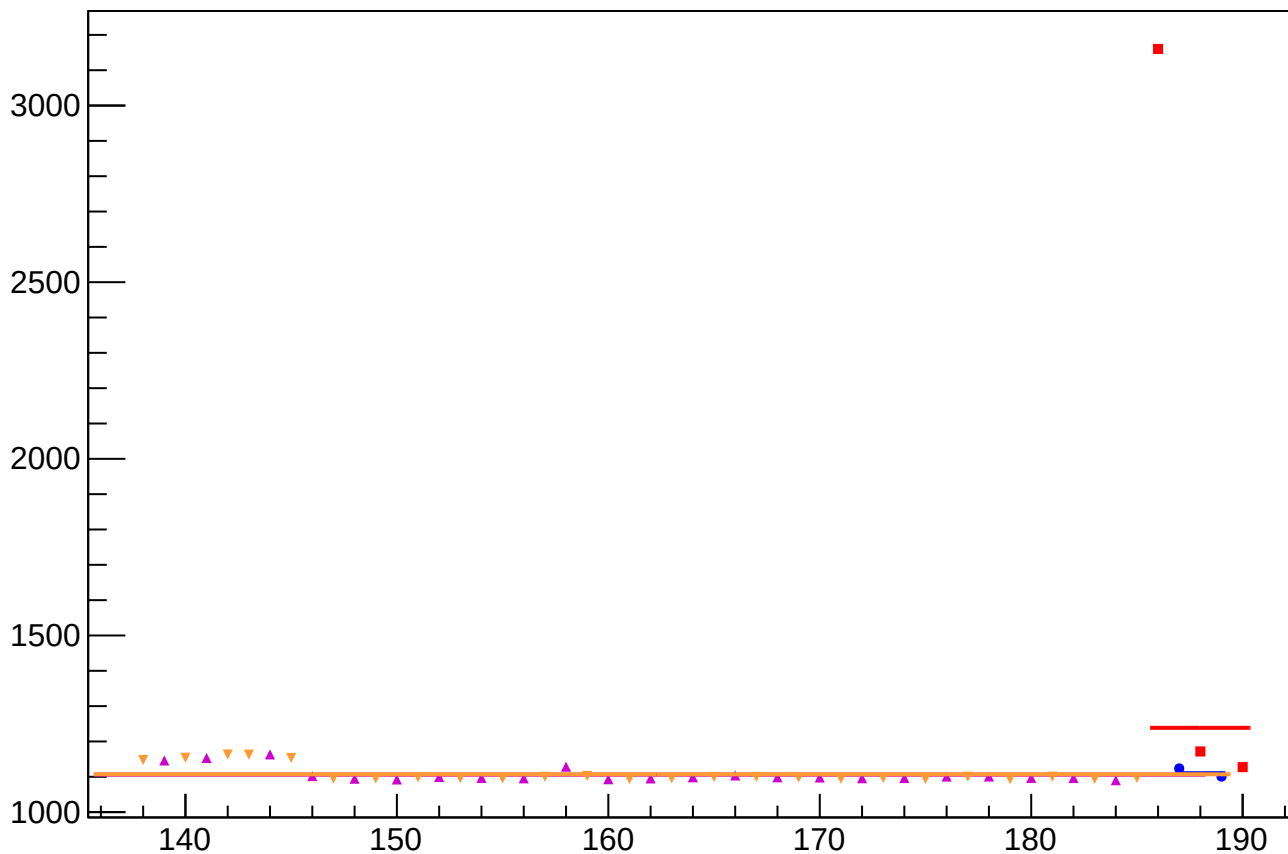
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

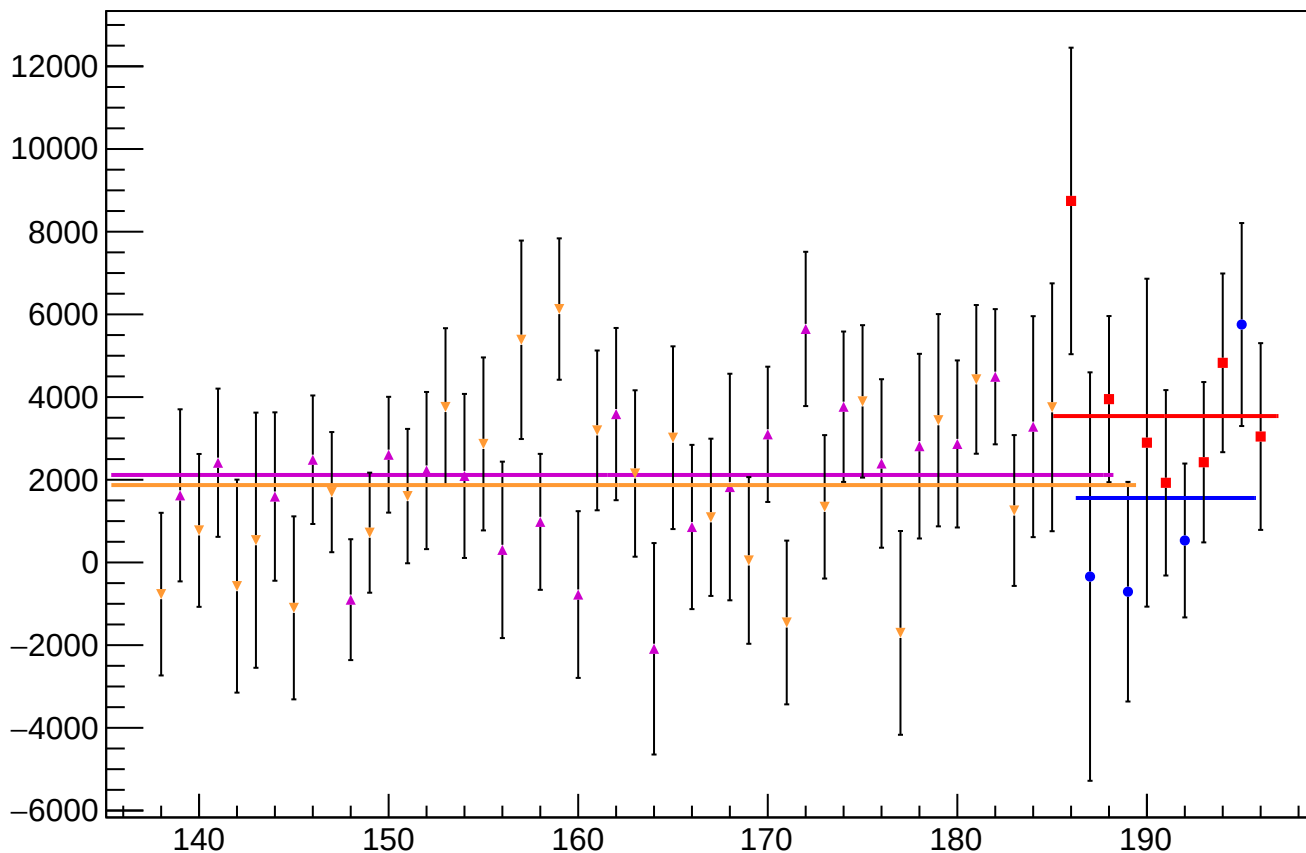
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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: 1559.294+/-1252.530 χ^2/NDF : 4.1/3

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

Right Out: 3540.725+/-891.204 χ^2/NDF : 3.3/6

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

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

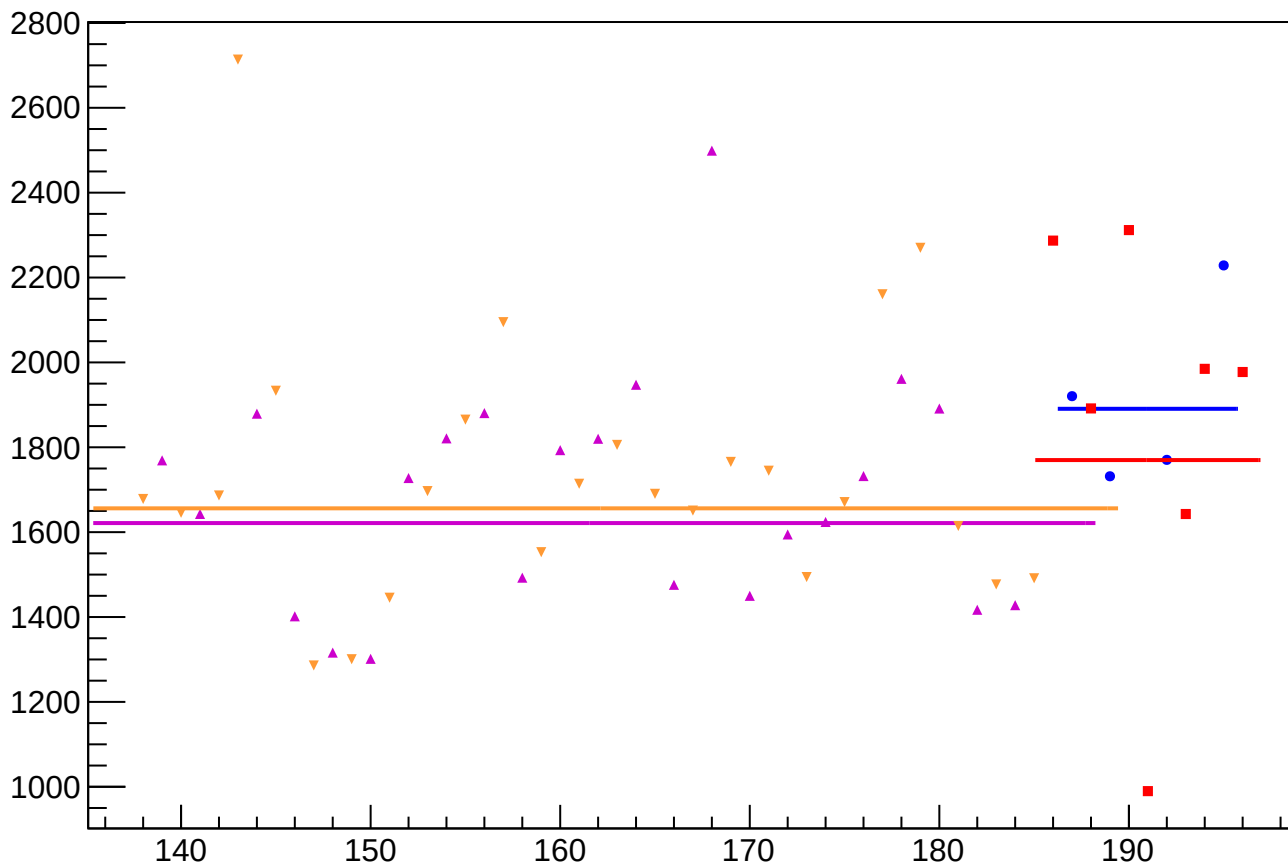
Right: 2874.753+/-726.150 χ^2/NDF : 9.1/10

In: 2066.210+/-374.972 χ^2/NDF : 23.1/26

Out: 2141.845+/-358.580 χ^2/NDF : 32.4/31

All: 2105.717+/-259.156 χ^2/NDF : 55.4/58

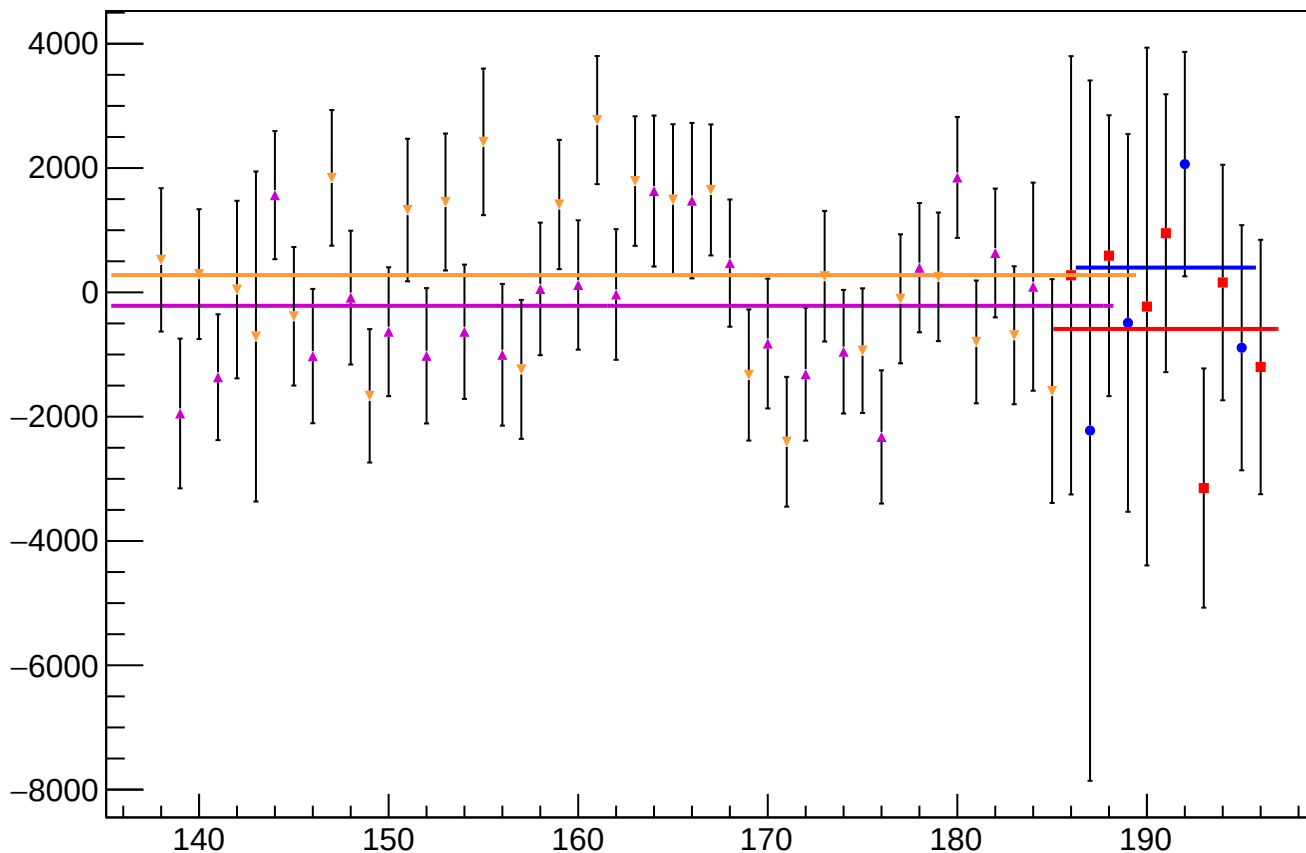
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1890.677 $\pm$ 0.886 χ^2/NDF : 53484.8/3
 Left Out: 1656.119 $\pm$ 0.277 χ^2/NDF : 910573.4/24
 Right Out: 1769.868 $\pm$ 0.630 χ^2/NDF : 370953.6/6
 Left In: 1621.417 $\pm$ 0.278 χ^2/NDF : 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2/NDF : 1693706.9/47
 Right: 1810.473 $\pm$ 0.513 χ^2/NDF : 436790.8/10
 In: 1645.549 $\pm$ 0.265 χ^2/NDF : 912938.0/26
 Out: 1674.534 $\pm$ 0.254 χ^2/NDF : 1308833.7/31
 All: 1660.689 $\pm$ 0.183 χ^2/NDF : 2228013.8/58

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 398.742 $\pm$ 1192.082 χ^2/NDF : 1.6/3

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

Right Out: -588.405 $\pm$ 869.930 χ^2/NDF : 2.8/6

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

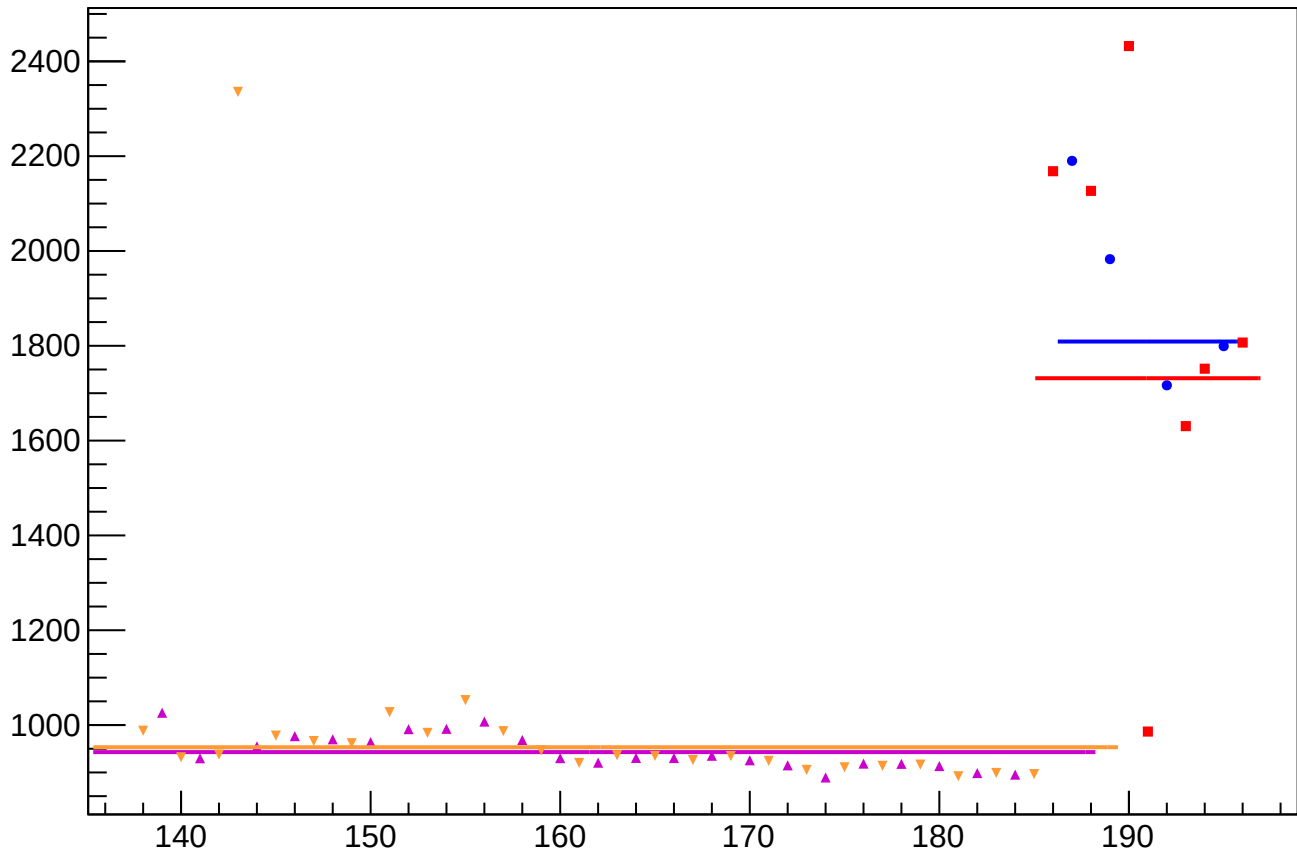
Right: -245.381 $\pm$ 702.712 χ^2/NDF : 4.9/10

In: -194.861 $\pm$ 221.666 χ^2/NDF : 26.3/26

Out: 224.401 $\pm$ 216.543 χ^2/NDF : 42.2/31

All: 19.670 $\pm$ 154.899 χ^2/NDF : 70.2/58

asym_us_agg_dd_rms vs Slug, Sign Corrected



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

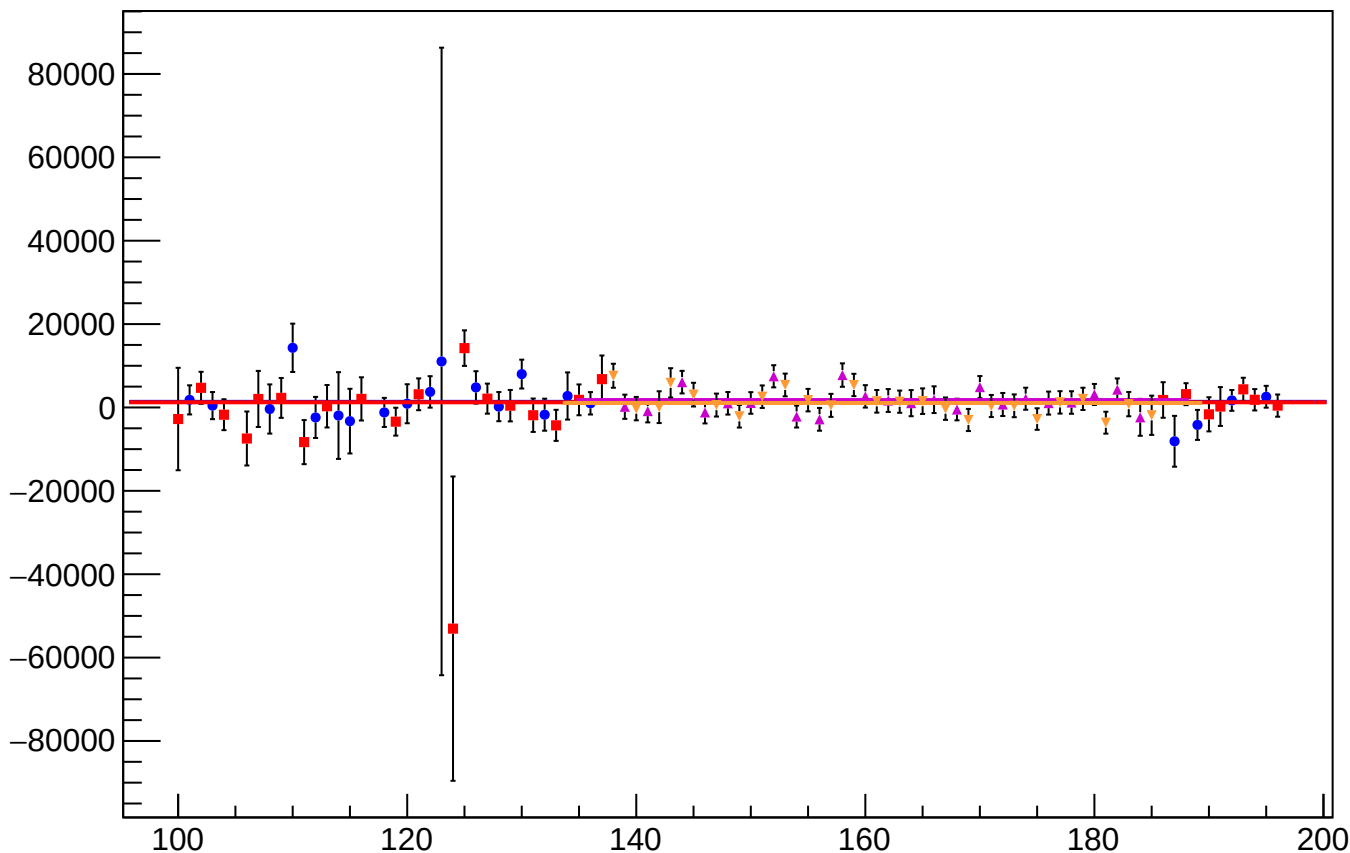
Right: 1758.501 $\pm$ 0.497 χ^2/NDF : 405718.4/10

In: 972.872 $\pm$ 0.157 χ^2/NDF : 1088531.3/26

Out: 1001.451 $\pm$ 0.153 χ^2/NDF : 2487538.4/31

All: 987.496 $\pm$ 0.110 χ^2/NDF : 3593080.3/58

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1346.040+/-851.237 χ^2/NDF : 17.5/20

Left Out: 1078.054+/-564.005 χ^2/NDF : 23.6/24

Right Out: 1240.211+/-772.647 χ^2/NDF : 26.8/25

Left In: 1777.100+/-575.895 χ^2/NDF : 24.1/22

Left: 1420.287+/-402.950 χ^2/NDF : 48.4/47

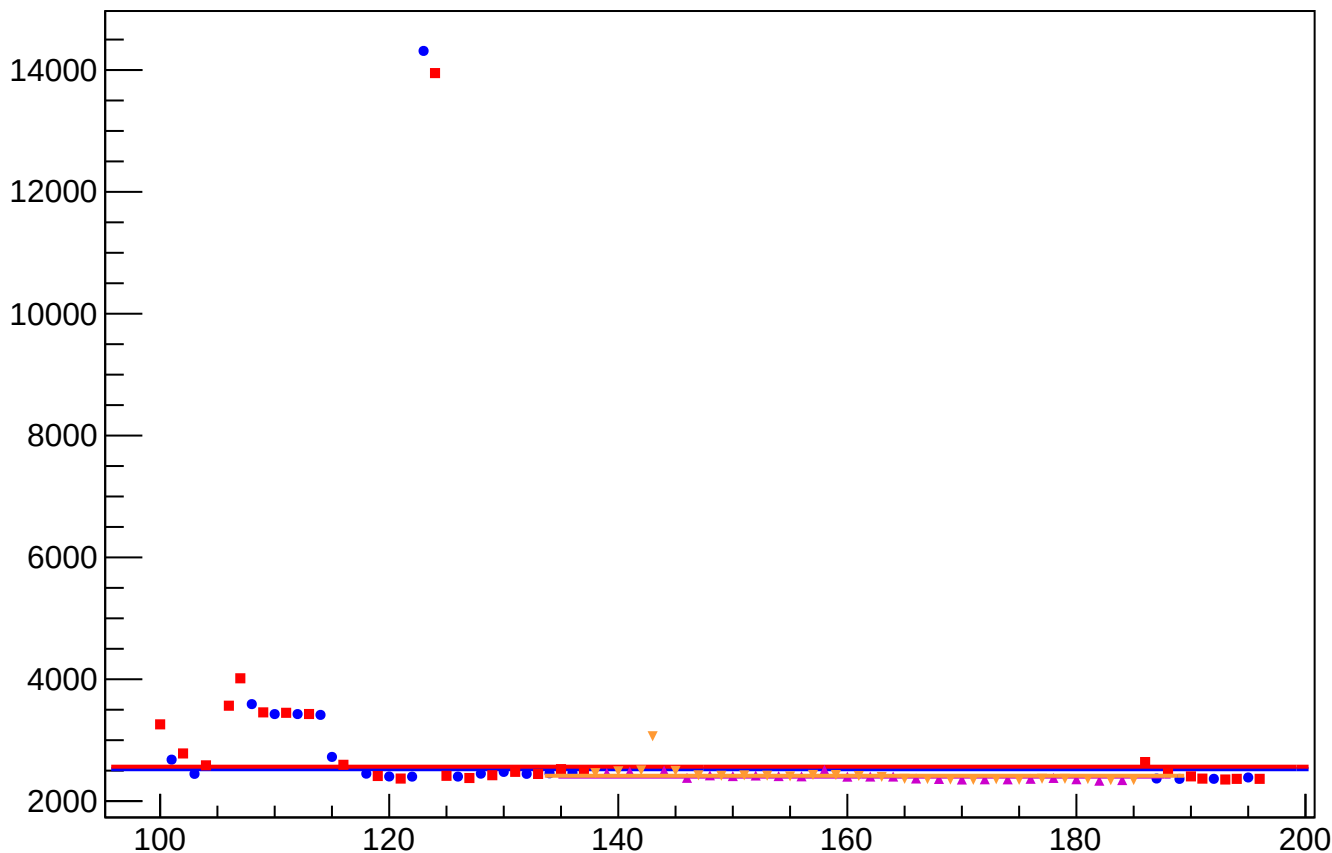
Right: 1288.016+/-572.115 χ^2/NDF : 44.3/46

In: 1641.752+/-476.989 χ^2/NDF : 41.7/43

Out: 1134.423+/-455.547 χ^2/NDF : 50.5/50

All: 1376.429+/-329.440 χ^2/NDF : 92.8/94

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2523.082 $\pm$ 0.602 χ^2 /NDF: 280027.0/20

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

Right Out: 2565.006 $\pm$ 0.546 χ^2 /NDF: 598682.0/25

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

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

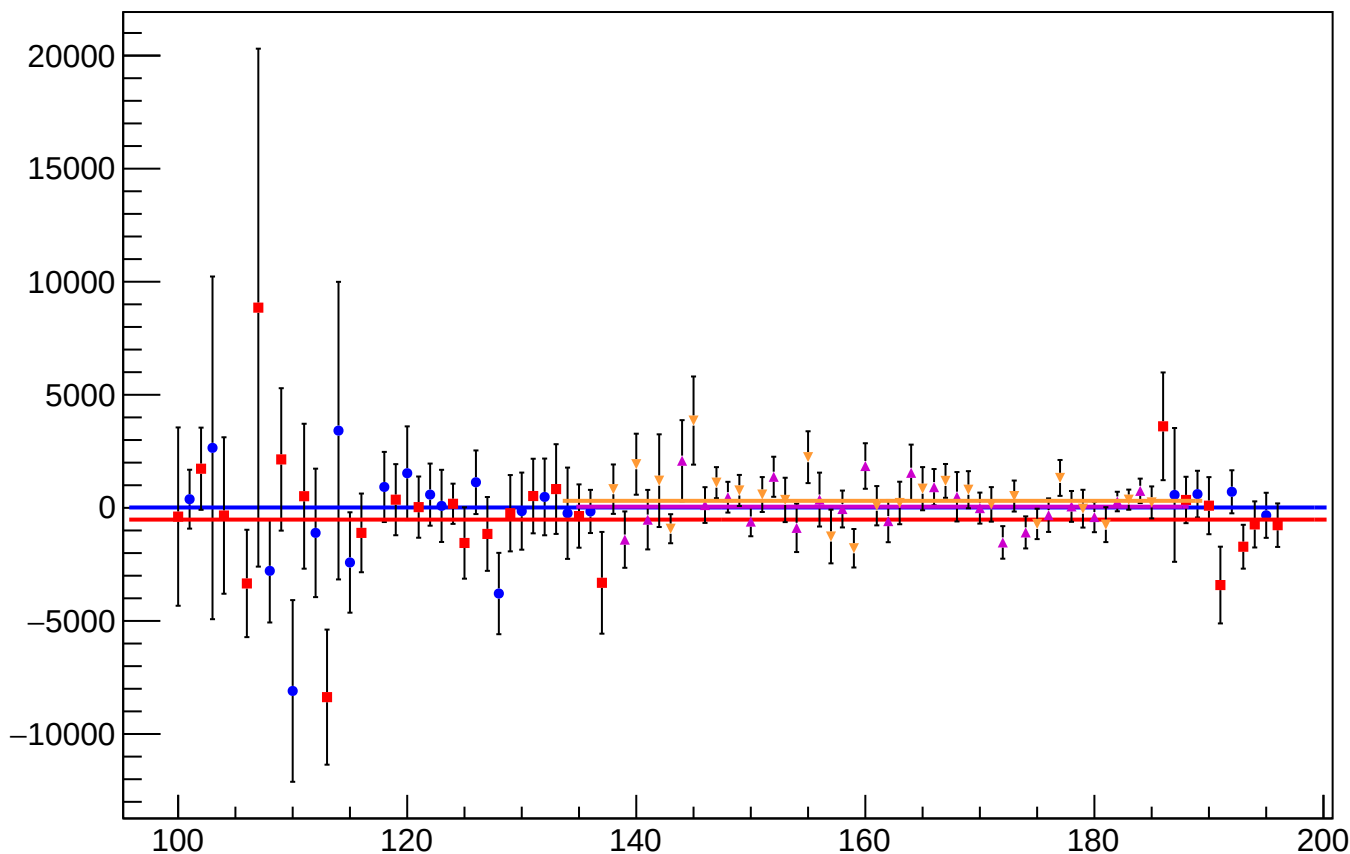
Right: 2546.068 $\pm$ 0.405 χ^2 /NDF: 881368.9/46

In: 2439.622 $\pm$ 0.337 χ^2 /NDF: 321800.3/43

Out: 2467.810 $\pm$ 0.322 χ^2 /NDF: 729831.5/50

All: 2454.364 $\pm$ 0.233 χ^2 /NDF: 1055284.8/94

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 16.874+/-337.214 χ^2/NDF : 14.7/20

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

Right Out: -519.257+/-299.420 χ^2/NDF : 24.1/25

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

Left: 182.044+/-113.982 χ^2/NDF : 54.9/47

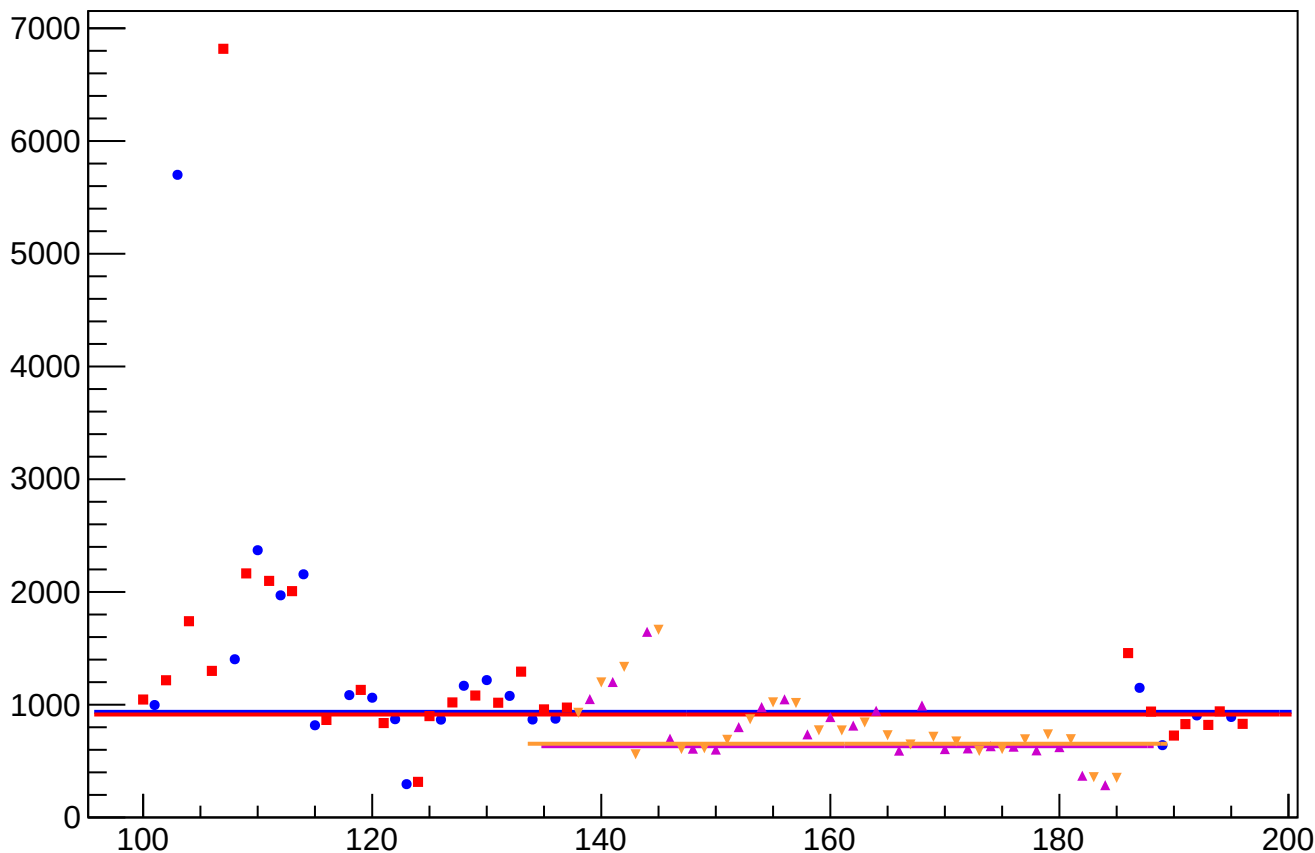
Right: -282.907+/-223.897 χ^2/NDF : 40.2/46

In: 44.986+/-145.836 χ^2/NDF : 38.6/43

Out: 125.317+/-141.561 χ^2/NDF : 59.8/50

All: 86.346+/-101.577 χ^2/NDF : 98.5/94

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 936.664 $\pm$ 0.238 χ^2 /NDF: 2122929.9/20

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

Right Out: 913.135 $\pm$ 0.212 χ^2 /NDF: 2867419.2/25

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

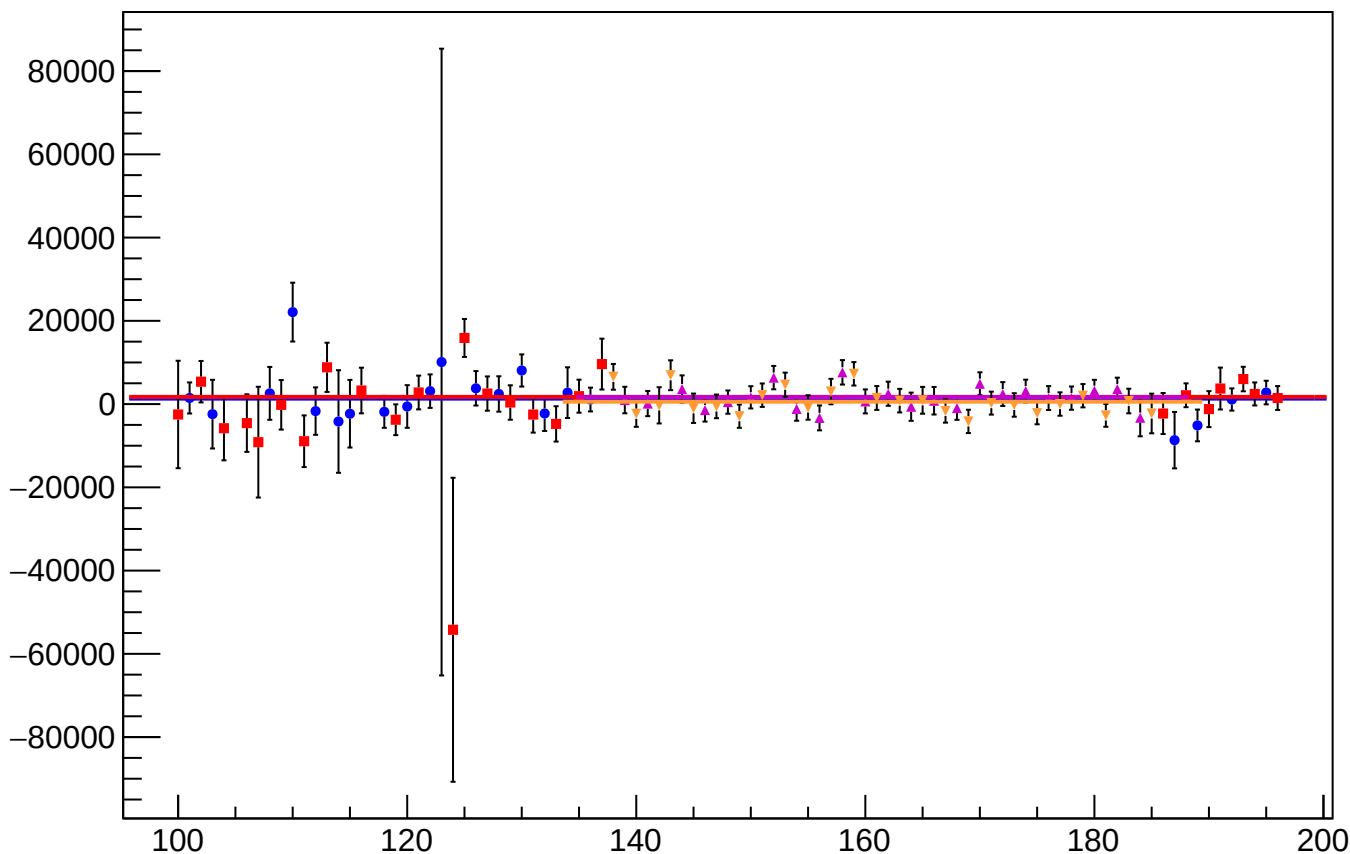
Right: 923.508 $\pm$ 0.158 χ^2 /NDF: 4995793.6/46

In: 689.025 $\pm$ 0.103 χ^2 /NDF:7392519.1/43

Out: 711.770 $\pm$ 0.100 χ^2 /NDF:7287073.6/50

All: 700.736 $\pm$ 0.072 χ^2 /NDF: 14704640.6/94

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1318.039+/-956.135 χ^2/NDF : 20.2/20

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

Right Out: 1723.001+/-867.374 χ^2/NDF : 30.5/25

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

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

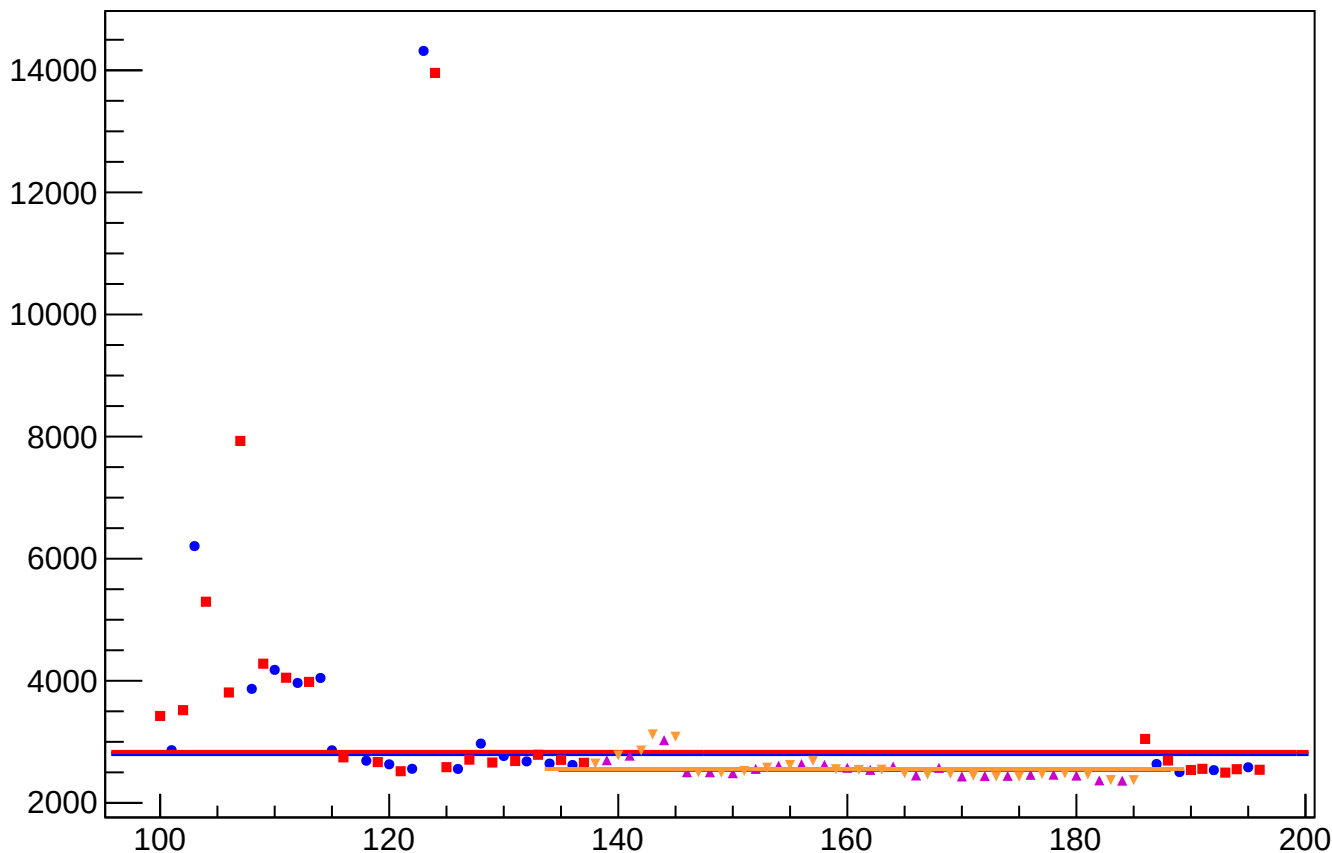
Right: 1540.185+/-642.420 χ^2/NDF : 50.8/46

In: 1574.961+/-514.322 χ^2/NDF : 38.4/43

Out: 948.161+/-491.870 χ^2/NDF : 57.0/50

All: 1247.582+/-355.477 χ^2/NDF : 96.2/94

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2799.432+/-0.676 χ^2/NDF : 701595.8/20

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

Right Out: 2835.479+/-0.613 χ^2/NDF : 1160979.6/25

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

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

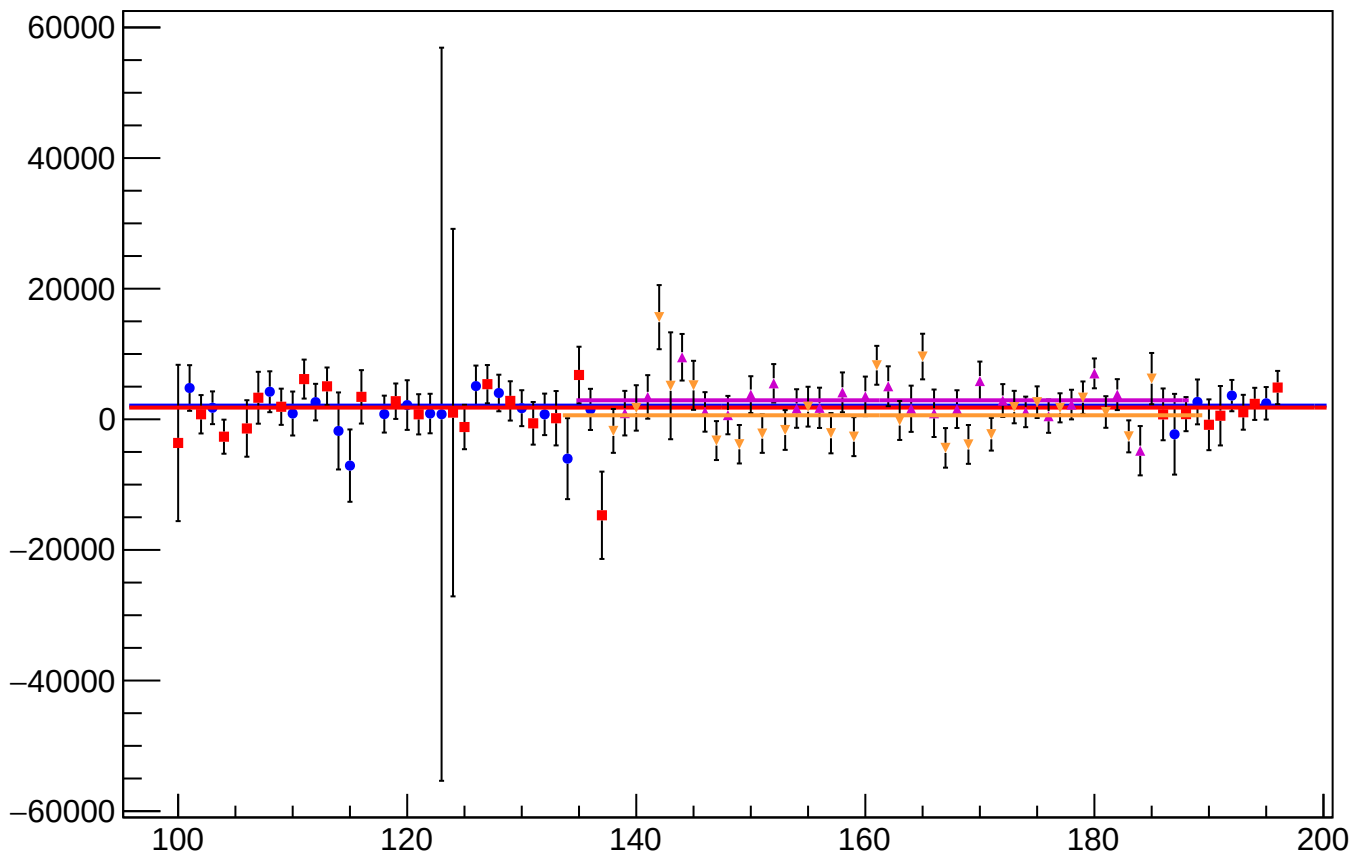
Right: 2819.206+/-0.454 χ^2/NDF : 1864134.8/46

In: 2615.770+/-0.364 χ^2/NDF :900195.4/43

Out: 2645.385+/-0.348 χ^2/NDF :1457319.2/50

All: 2631.238+/-0.251 χ^2/NDF : 2360978.2/94

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2094.906+/-714.841 χ^2/NDF : 9.1/20

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

Right Out: 1794.833+/-648.664 χ^2/NDF : 20.6/25

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

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

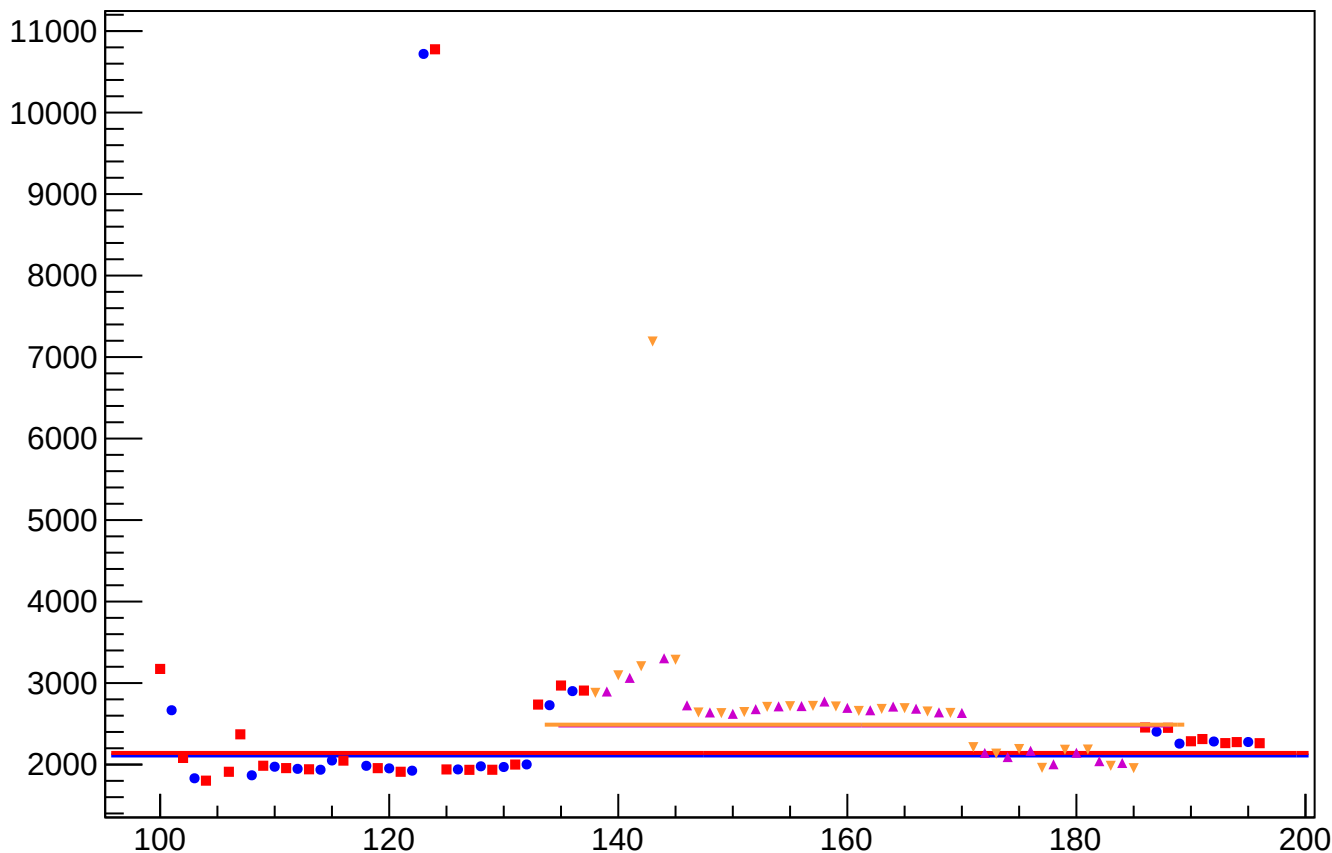
Right: 1930.340+/-480.371 χ^2/NDF : 29.8/46

In: 2572.798+/-459.424 χ^2/NDF : 27.2/43

Out: 1150.227+/-436.926 χ^2/NDF : 67.6/50

All: 1825.830+/-316.608 χ^2/NDF : 99.8/94

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2111.381+/-0.505 χ^2/NDF : 352497.6/20

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

Right Out: 2142.602+/-0.459 χ^2/NDF : 526382.8/25

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

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

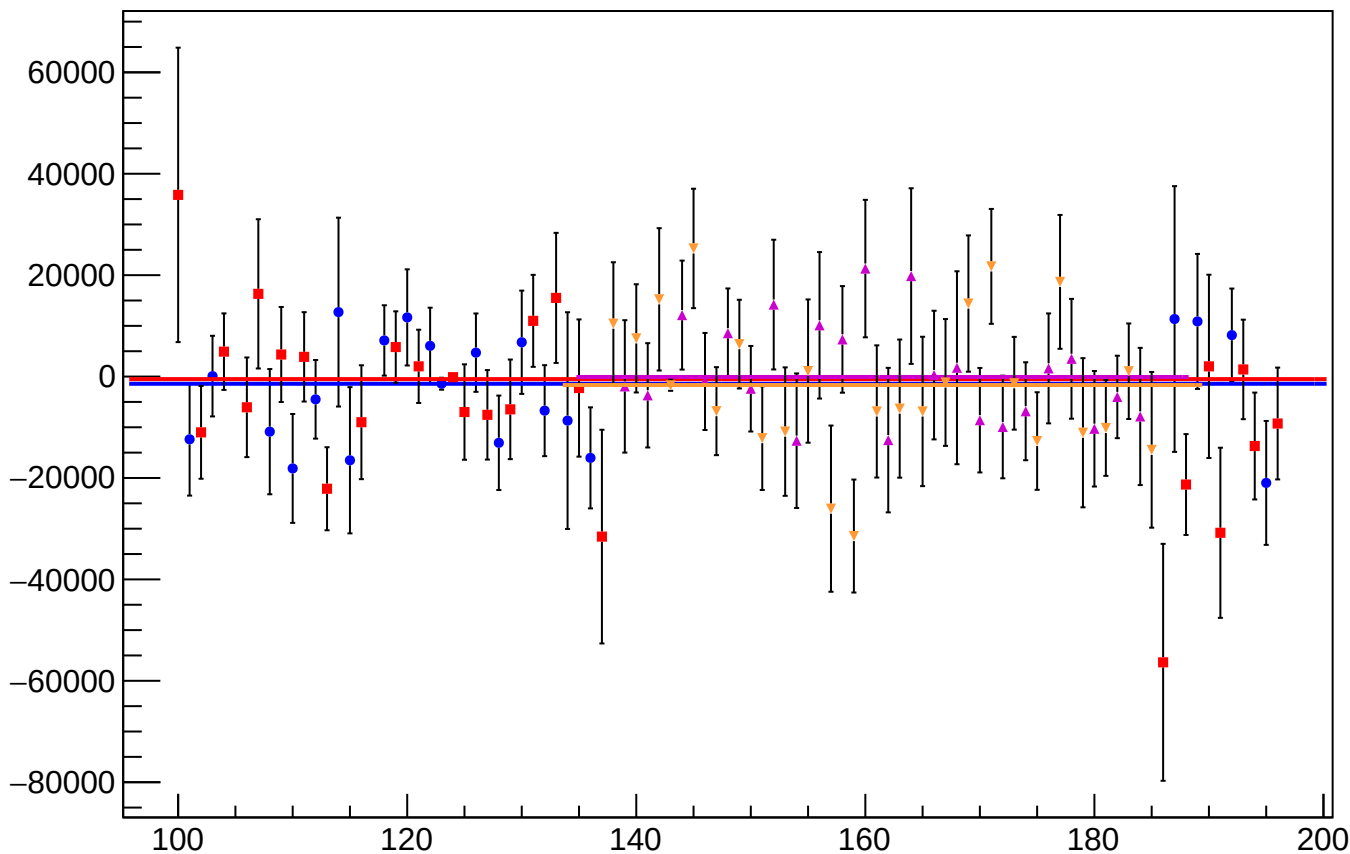
Right: 2128.503+/-0.340 χ^2/NDF : 880972.6/46

In: 2327.358+/-0.325 χ^2/NDF :1331943.3/43

Out: 2332.151+/-0.309 χ^2/NDF :2203203.0/50

All: 2329.874+/-0.224 χ^2/NDF : 3535260.7/94

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1421.251 ± 1039.926 $\chi^2/\text{NDF}: 20.4/20$

Left Out: -1665.417 ± 993.060 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -502.121 ± 687.703 $\chi^2/\text{NDF}: 36.7/25$

Left In: -80.274 ± 2331.531 $\chi^2/\text{NDF}: 13.8/22$

Left: -1422.008 ± 913.639 $\chi^2/\text{NDF}: 46.6/47$

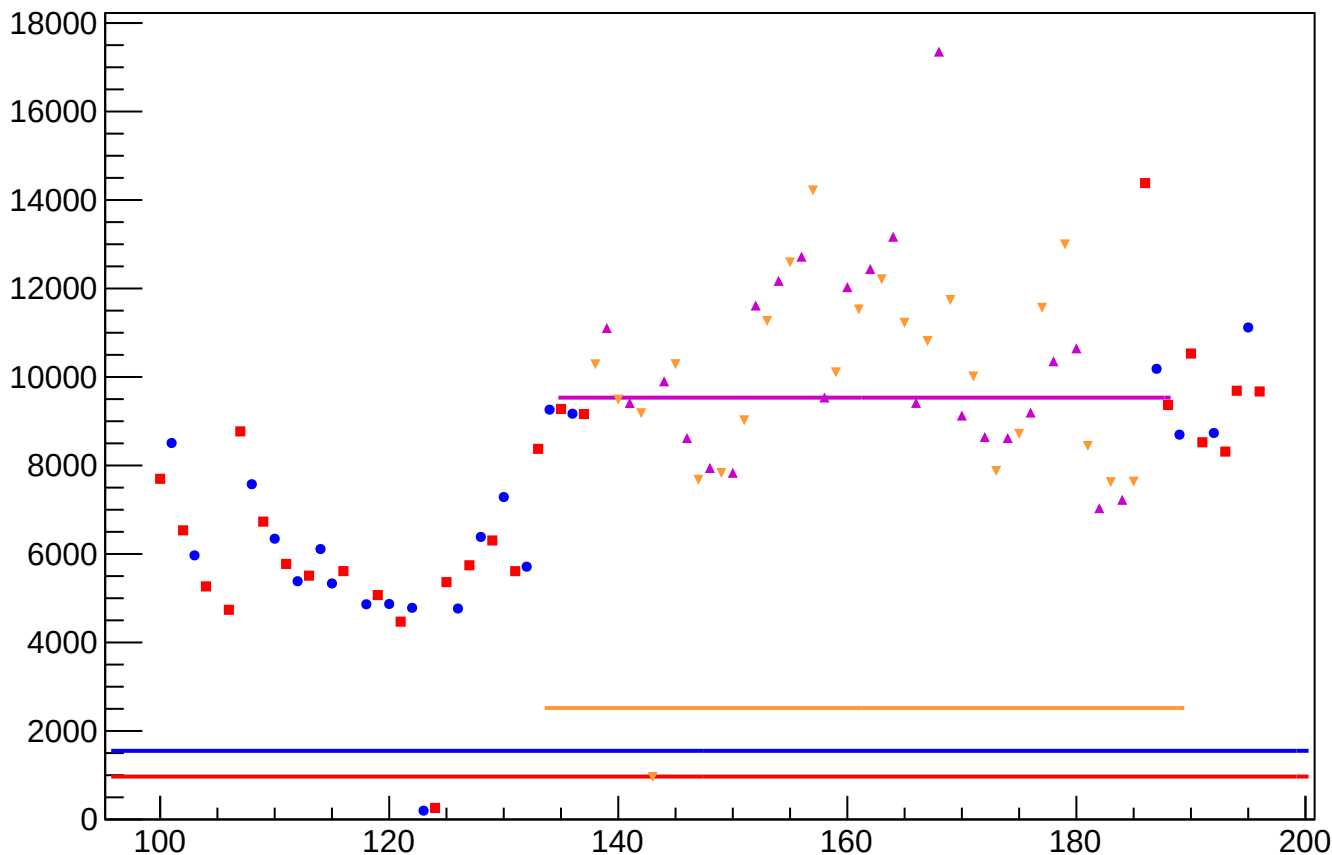
Right: -781.775 ± 573.620 $\chi^2/\text{NDF}: 57.7/46$

In: -1198.743 ± 949.738 $\chi^2/\text{NDF}: 34.5/43$

Out: -879.177 ± 565.371 $\chi^2/\text{NDF}: 70.0/50$

All: -962.791 ± 485.808 $\chi^2/\text{NDF}: 104.7/94$

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1550.963+/-0.735

χ^2/NDF : 13362590.8/20

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

Right: 1146.317+/-0.406 χ^2/NDF : 32140617.4/46

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 2875.516+/-0.672 χ^2/NDF : 34233375.8/43

Right Out: 969.358+/-0.486

χ^2/NDF : 18342785.7/25

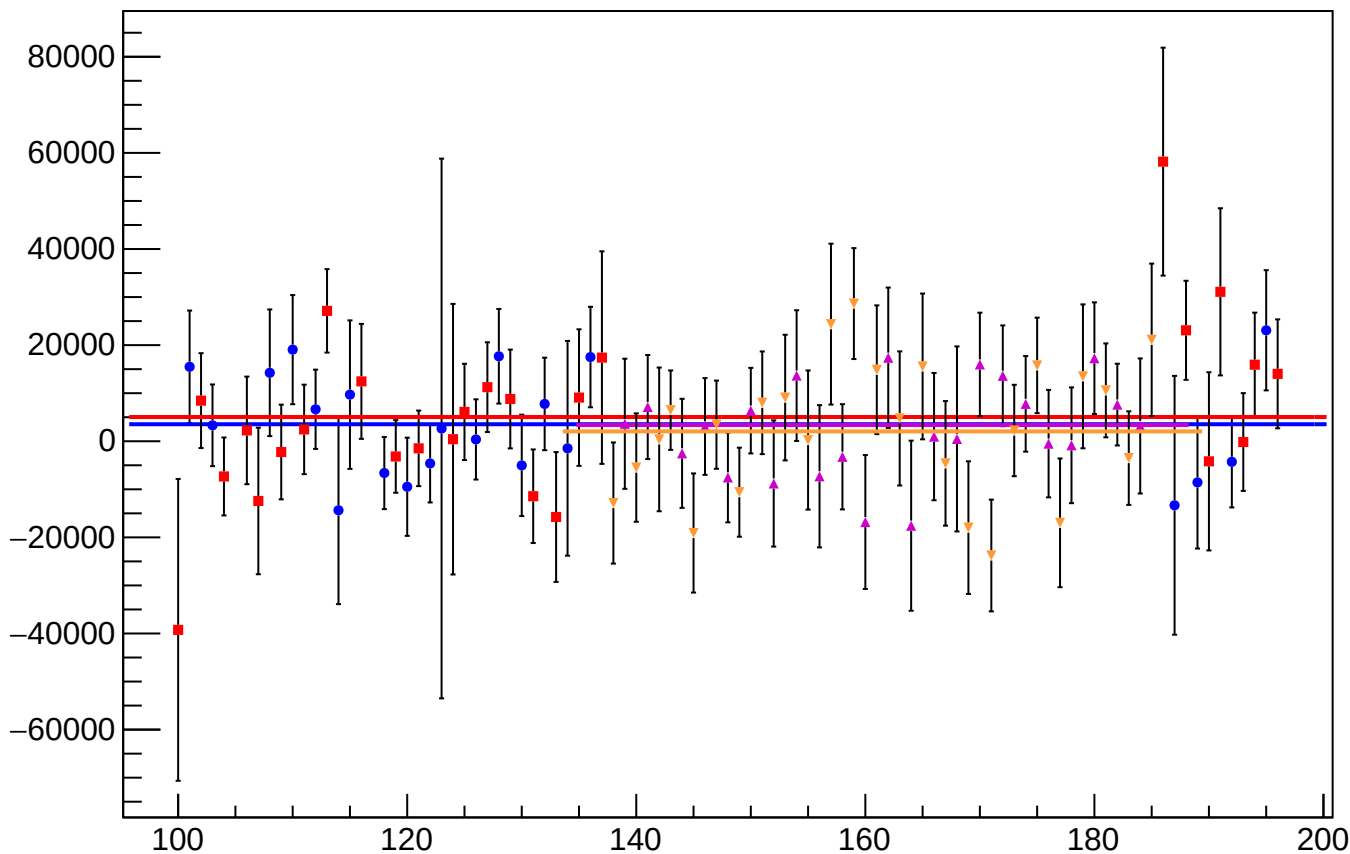
Out: 1471.755+/-0.400 χ^2/NDF : 45278028.5/50

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1839.049+/-0.344 χ^2/NDF : 82737453.8/9

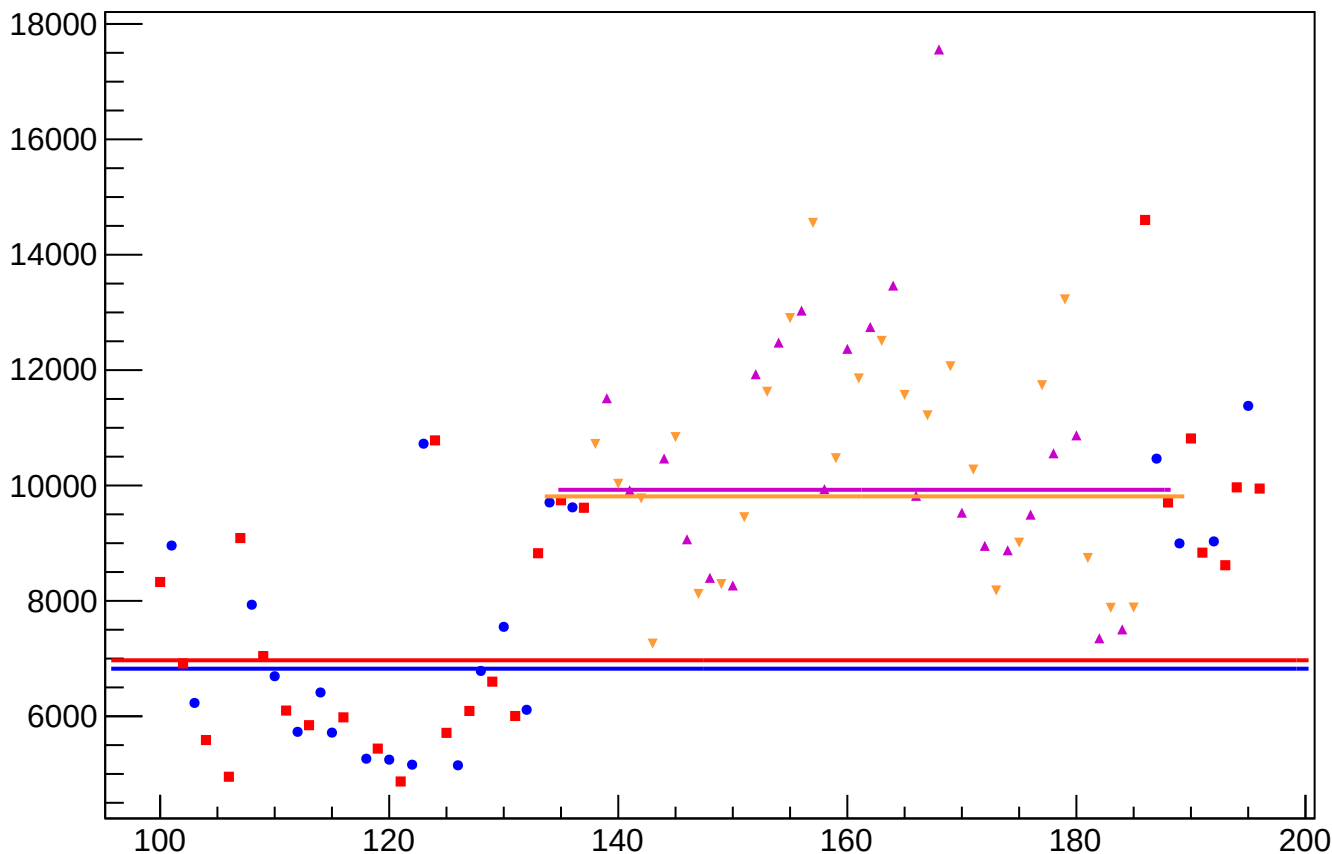
asym_atl2_mean vs Slug, Sign Corrected



Right In: 3541.782 $\pm$ 2365.084 χ^2 /NDF: 18.4/20
 Left Out: 2055.950 $\pm$ 2333.494 χ^2 /NDF:30.7/24
 Right Out: 5043.325 $\pm$ 2165.949 χ^2 /NDF: 33.9/25
 Left In: 3371.931 $\pm$ 2423.242 χ^2 /NDF:13.1/22

Left: 2689.120 $\pm$ 1680.862 χ^2 /NDF: 44.0/47
 Right: 4358.418 $\pm$ 1597.326 χ^2 /NDF: 52.5/46
 In: 3458.919 $\pm$ 1692.554 χ^2 /NDF:31.5/43
 Out: 3660.724 $\pm$ 1587.487 χ^2 /NDF:65.5/50
 All: 3566.279 $\pm$ 1157.886 χ^2 /NDF: 97.0/94

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6824.366+/-1.672 χ^2/NDF : 1102201.6/20

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

Right Out: 6970.164+/-1.532 χ^2/NDF : 1506902.2/25

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

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

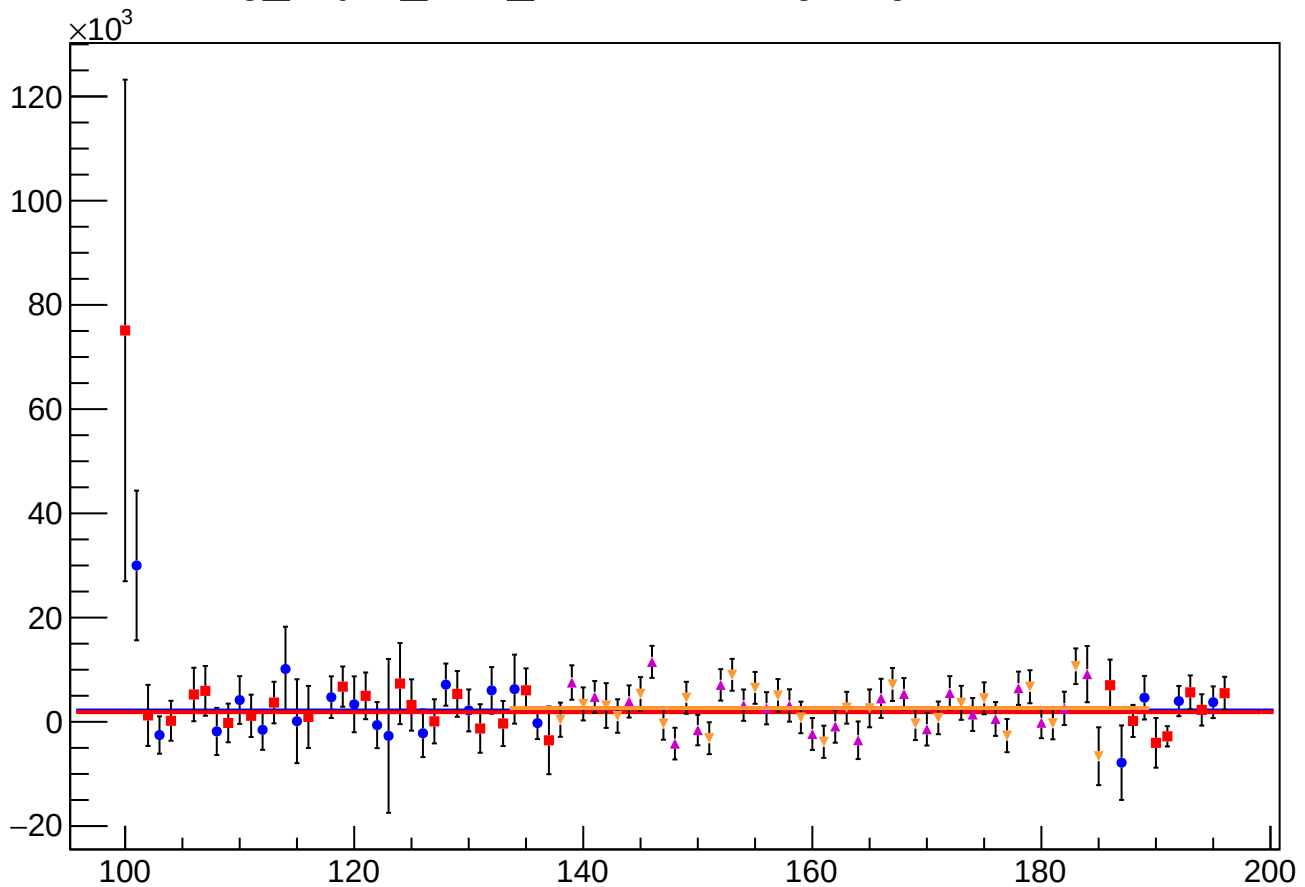
Right: 6903.663+/-1.129 χ^2/NDF : 2613237.6/46

In: 8337.187+/-1.197 χ^2/NDF : 3991114.0/43

Out: 8284.917+/-1.123 χ^2/NDF : 4313176.0/50

All: 8309.379+/-0.819 χ^2/NDF : 8305304.8/94

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2170.332 $\pm$ 960.044 χ^2 /NDF: 16.5/20

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

Right Out: 1857.671 $\pm$ 783.885 χ^2 /NDF: 21.5/25

Left In: 2638.607 $\pm$ 664.569 χ^2 /NDF: 35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2 /NDF: 70.3/47

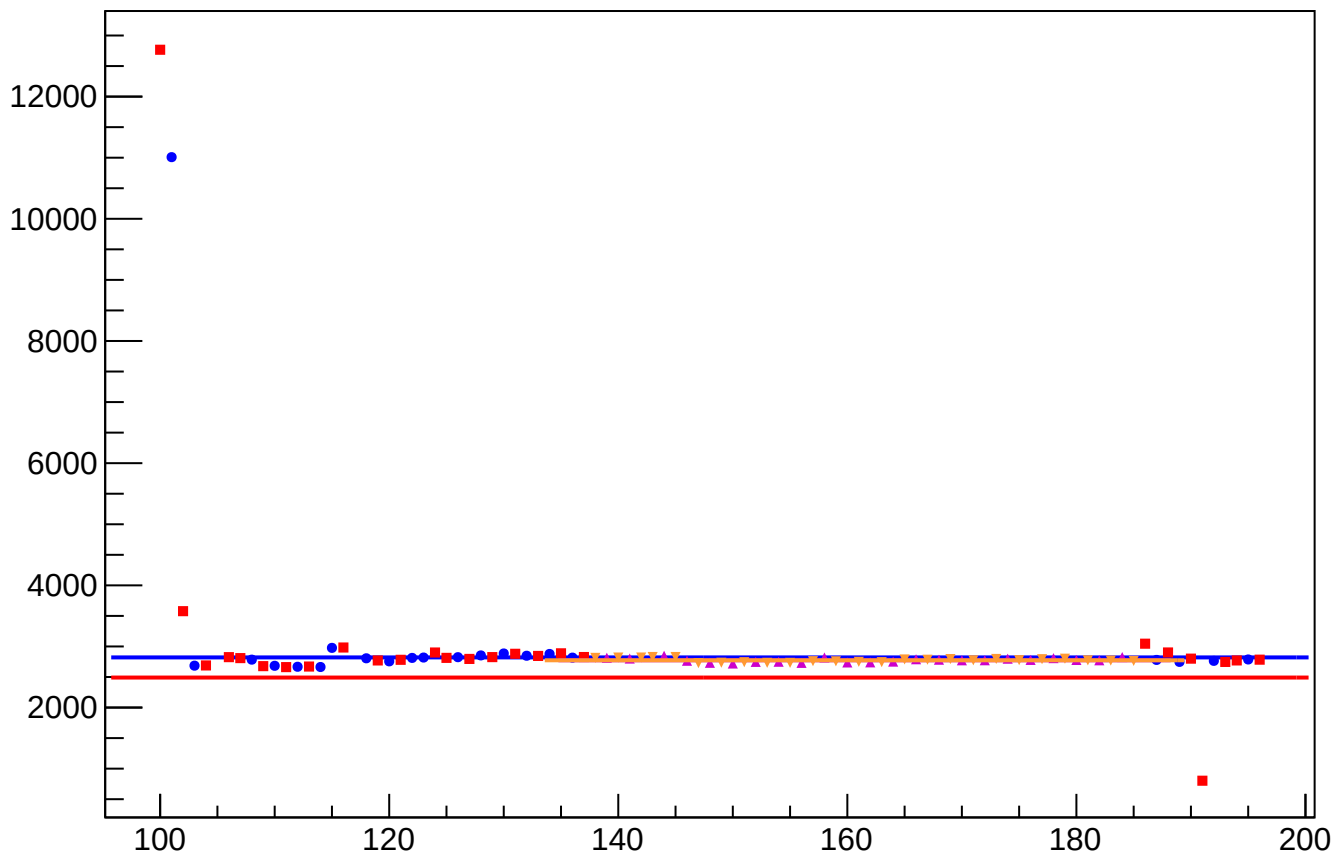
Right: 1982.737 $\pm$ 607.191 χ^2 /NDF: 38.1/46

In: 2486.910 $\pm$ 546.424 χ^2 /NDF: 51.9/43

Out: 2321.029 $\pm$ 498.583 χ^2 /NDF: 57.1/50

All: 2396.391 $\pm$ 368.306 χ^2 /NDF: 109.1/94

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2820.704+/-0.679 χ^2/NDF : 662412.1/20

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

Right Out: 2491.069+/-0.554 χ^2/NDF : 1933721.7/25

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

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

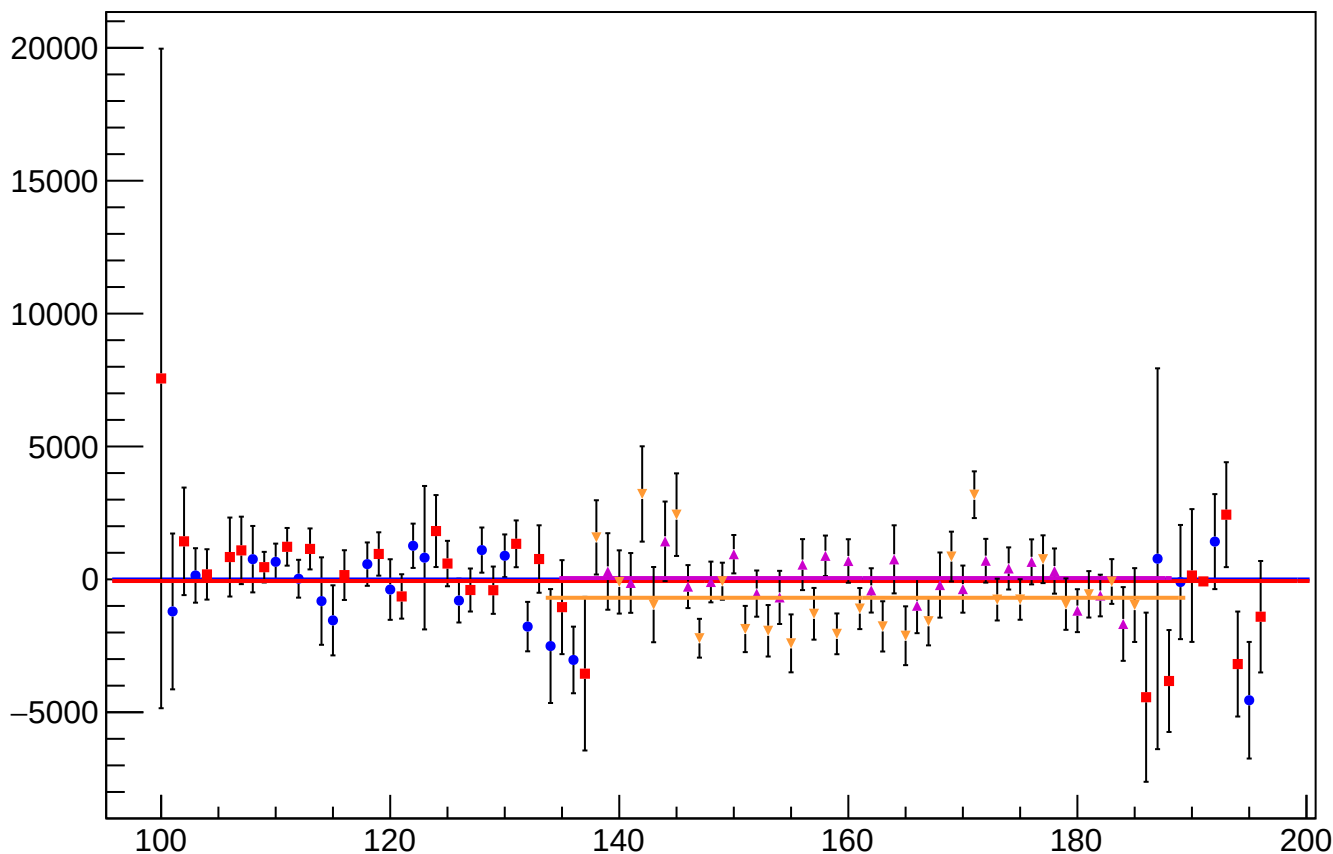
Right: 2622.925+/-0.429 χ^2/NDF : 2737602.8/46

In: 2789.154+/-0.386 χ^2/NDF : 670592.4/43

Out: 2659.370+/-0.353 χ^2/NDF : 2093167.9/50

All: 2718.333+/-0.260 χ^2/NDF : 2825328.3/94

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -3.889 ± 237.235 $\chi^2/\text{NDF}: 25.7/20$

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

Right Out: -62.520 ± 37.905 $\chi^2/\text{NDF}: 28.8/25$

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

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

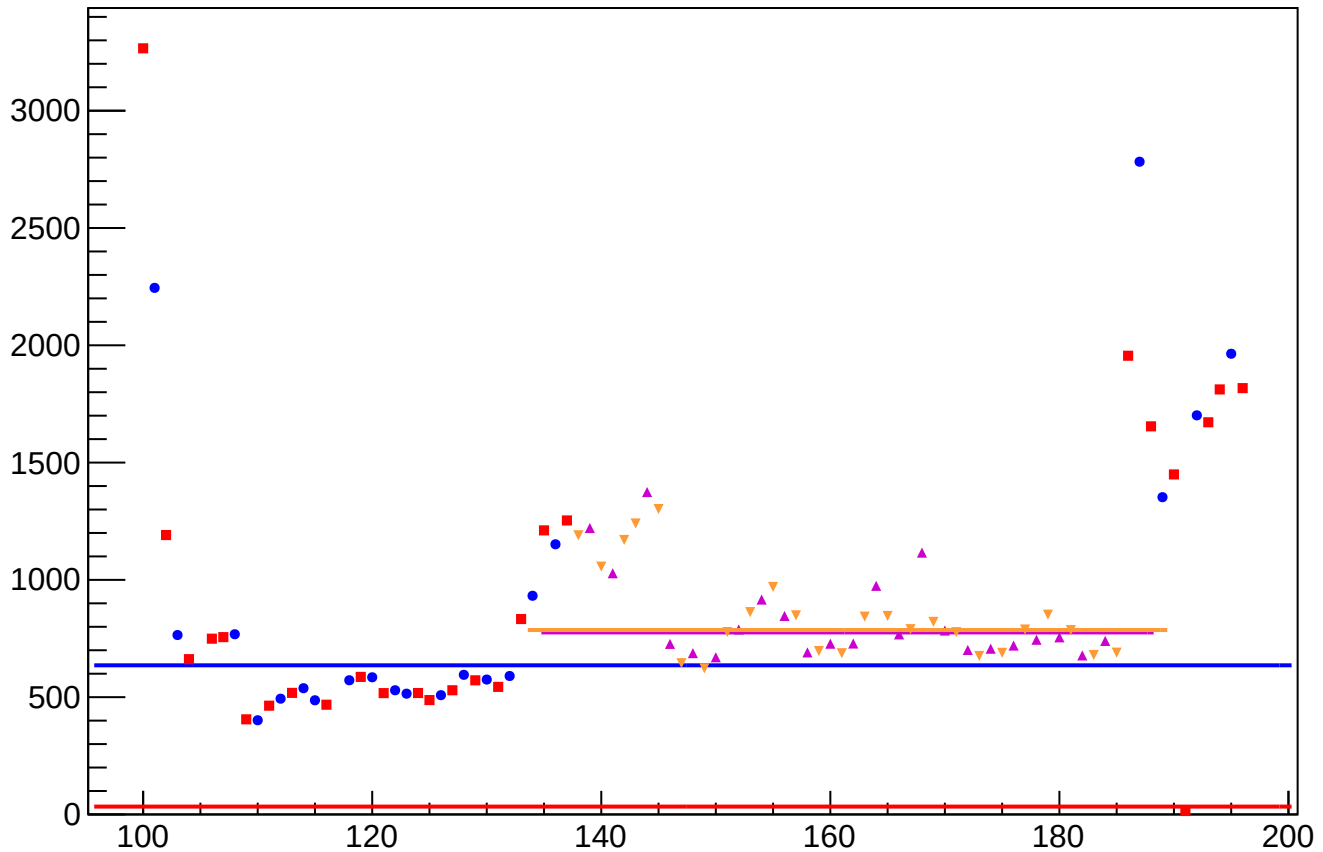
Right: -61.060 ± 37.430 $\chi^2/\text{NDF}: 54.6/46$

In: 28.589 ± 147.914 $\chi^2/\text{NDF}: 39.4/43$

Out: -87.319 ± 37.152 $\chi^2/\text{NDF}: 95.7/50$

All: -80.441 ± 36.033 $\chi^2/\text{NDF}: 135.7/94$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 635.797+/-0.168 χ^2/NDF : 3346461.7/20

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

Right Out: 33.538+/-0.027 χ^2/NDF : 19903525.7/25

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

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

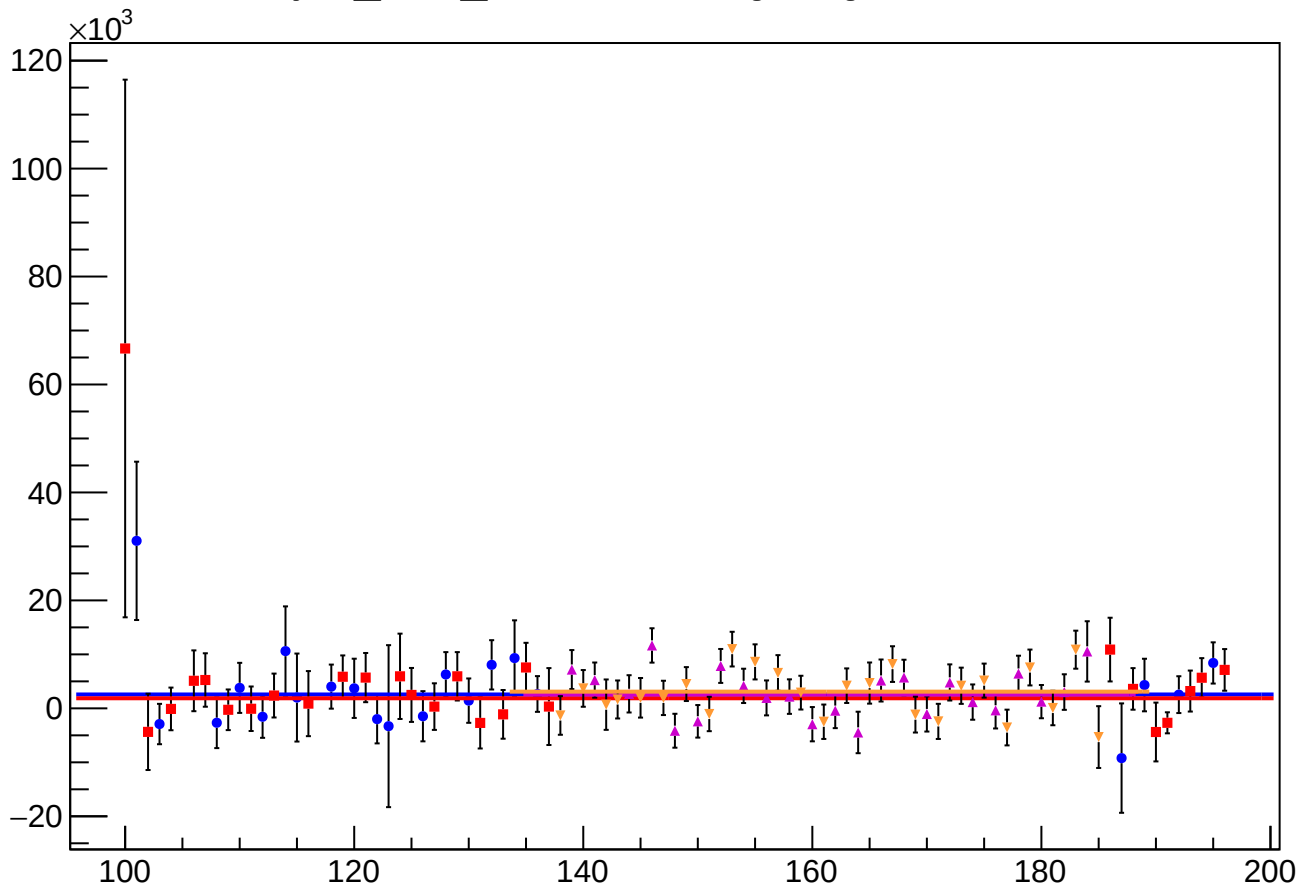
Right: 48.530+/-0.026 χ^2/NDF : 35818739.0/46

In: 721.454+/-0.105 χ^2/NDF :4829789.9/43

Out: 63.151+/-0.026 χ^2/NDF :52177459.4/50

All: 102.217+/-0.025 χ^2/NDF : 94271635.9/94

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2569.459 $\pm$ 1031.202 χ^2 /NDF: 18.5/20

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

Right Out: 1866.588 $\pm$ 841.316 χ^2 /NDF: 22.4/25

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

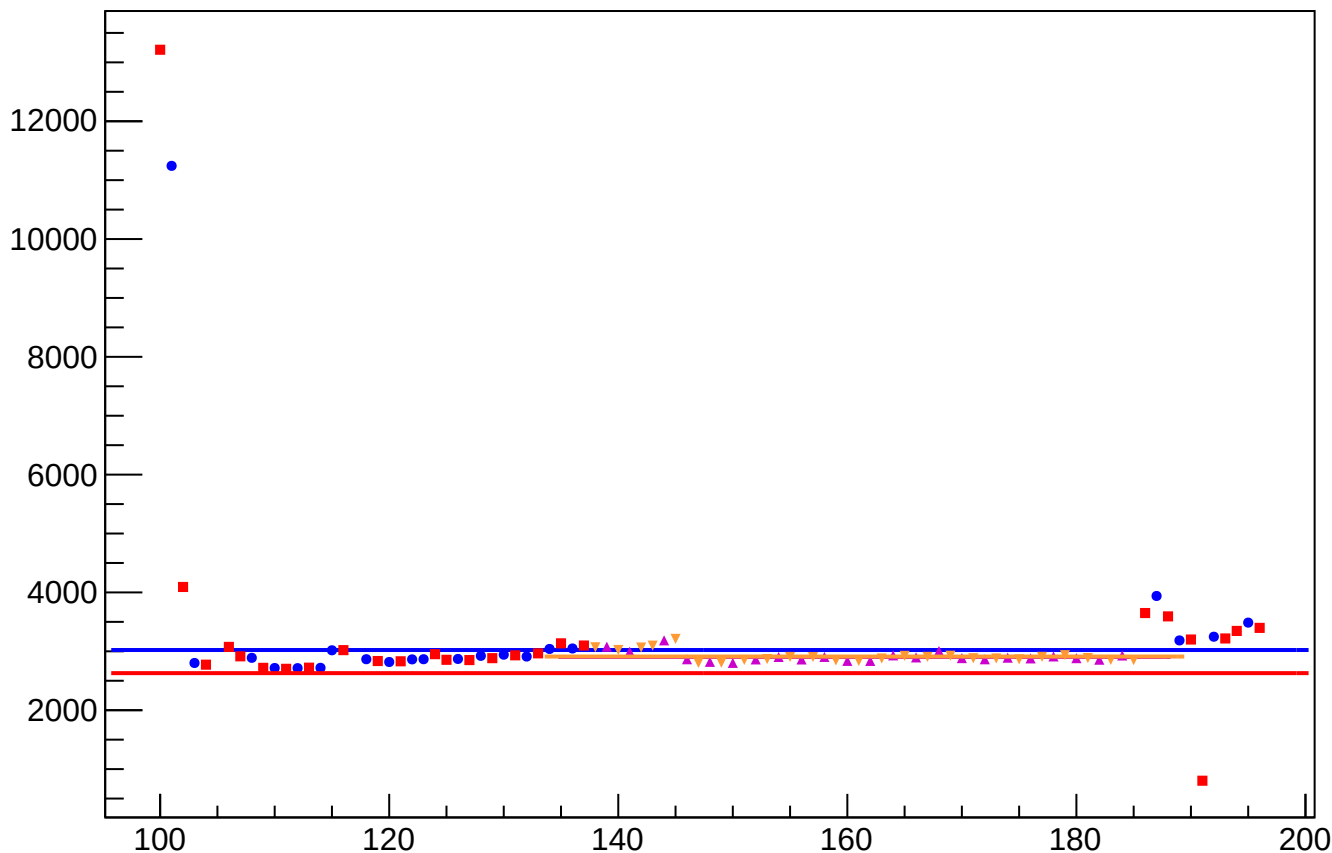
Right: 2147.473 $\pm$ 651.884 χ^2 /NDF: 41.2/46

In: 2572.019 $\pm$ 576.778 χ^2 /NDF:54.2/43

Out: 2610.784 $\pm$ 528.152 χ^2 /NDF:62.4/50

All: 2593.104 $\pm$ 389.518 χ^2 /NDF: 116.5/94

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3022.016+/-0.729 χ^2/NDF : 731456.8/20

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

Right Out: 2629.413+/-0.595 χ^2/NDF : 2459809.1/25

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

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

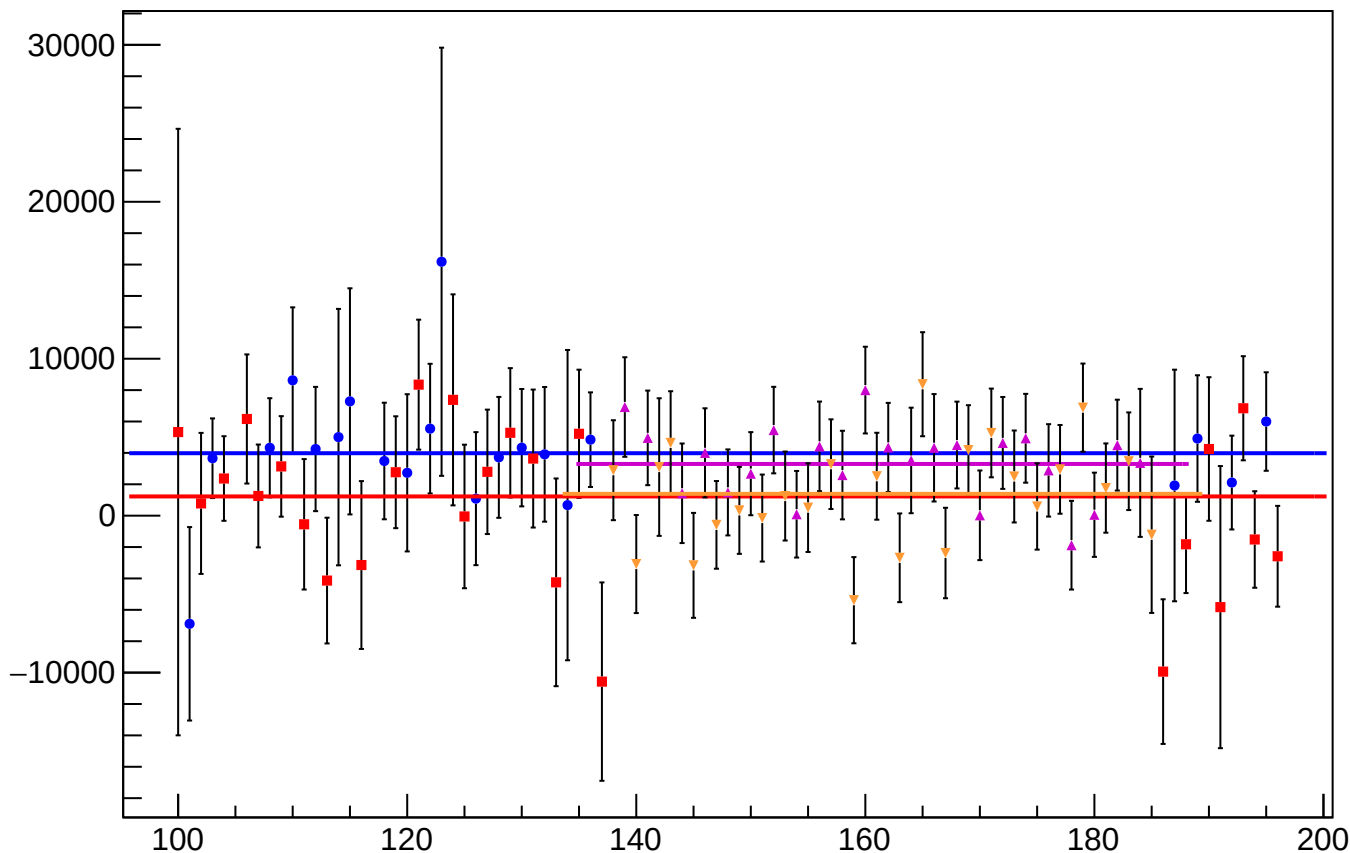
Right: 2786.307+/-0.461 χ^2/NDF : 3365315.6/46

In: 2940.516+/-0.408 χ^2/NDF : 778475.8/43

Out: 2800.165+/-0.373 χ^2/NDF : 2632422.6/50

All: 2864.176+/-0.275 χ^2/NDF : 3475312.5/94

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3979.863 $\pm$ 889.072 χ^2 /NDF: 7.0/20

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

Right Out: 1224.771 $\pm$ 793.542 χ^2 /NDF: 28.2/25

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

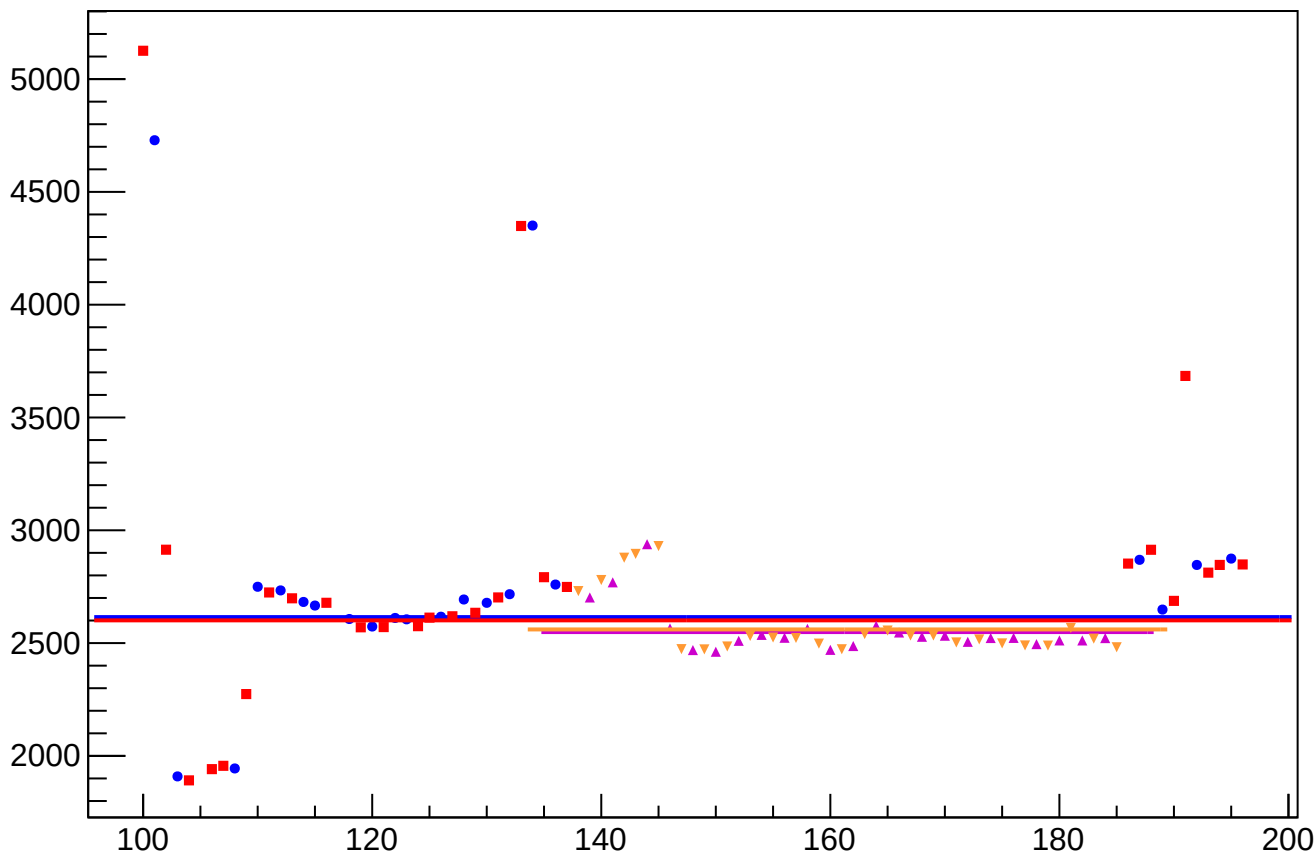
Right: 2446.400 $\pm$ 592.023 χ^2 /NDF: 40.6/46

In: 3514.451 $\pm$ 502.987 χ^2 /NDF:22.3/43

Out: 1330.519 $\pm$ 476.821 χ^2 /NDF:57.4/50

All: 2364.203 $\pm$ 346.044 χ^2 /NDF: 89.6/94

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2615.171 $\pm$ 0.629 χ^2 /NDF: 581065.8/20

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF:86771.4/24

Right Out: 2600.798 $\pm$ 0.561 χ^2 /NDF: 570751.8/25

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF:55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

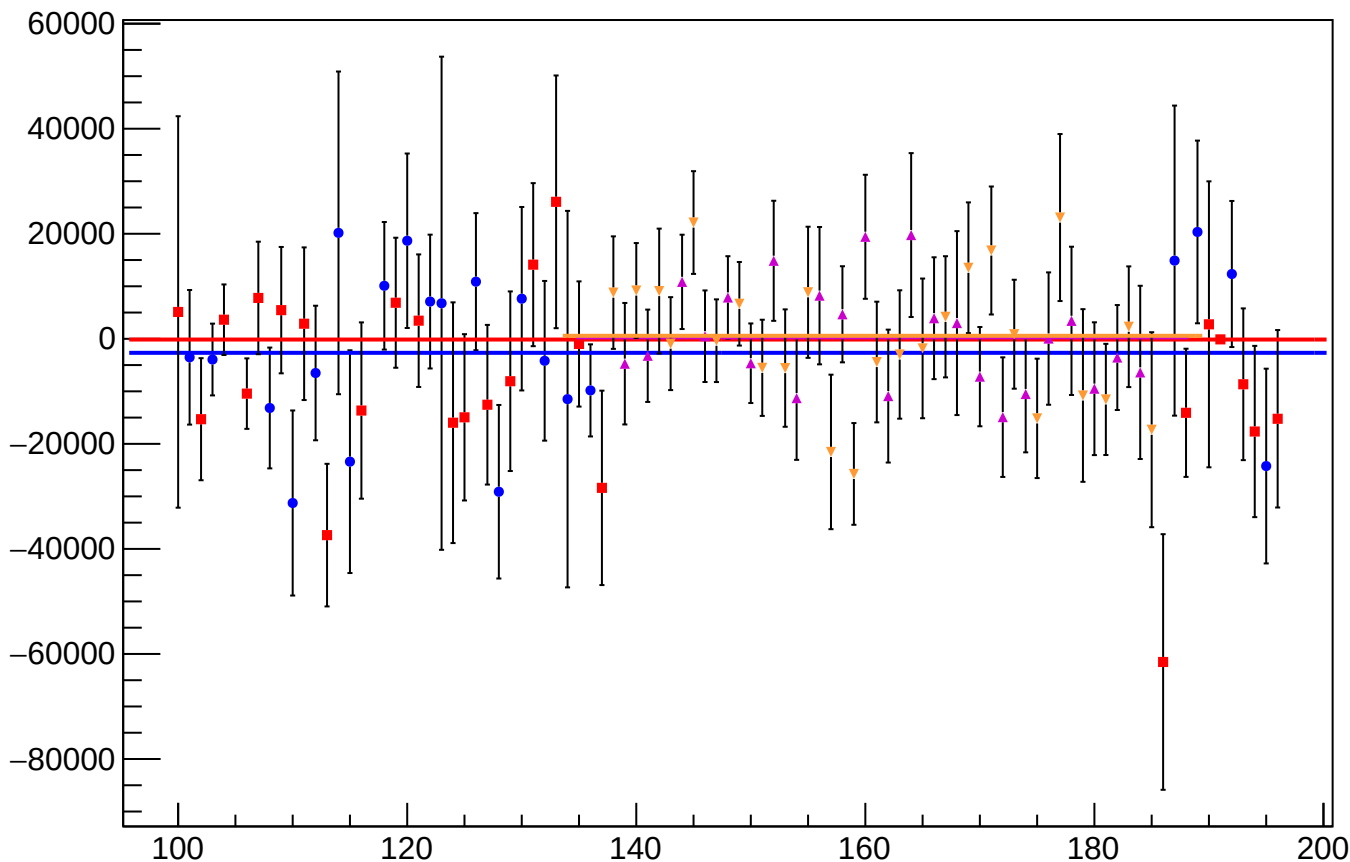
Right: 2607.171 $\pm$ 0.419 χ^2 /NDF: 1152108.5/46

In: 2570.091 $\pm$ 0.356 χ^2 /NDF:643894.5/43

Out: 2575.070 $\pm$ 0.337 χ^2 /NDF:660813.7/50

All: 2572.713 $\pm$ 0.245 χ^2 /NDF: 1304811.4/94

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2668.028+/-3040.946 χ^2/NDF : 17.8/20

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -138.235+/-195.014 χ^2/NDF : 30.4/25

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

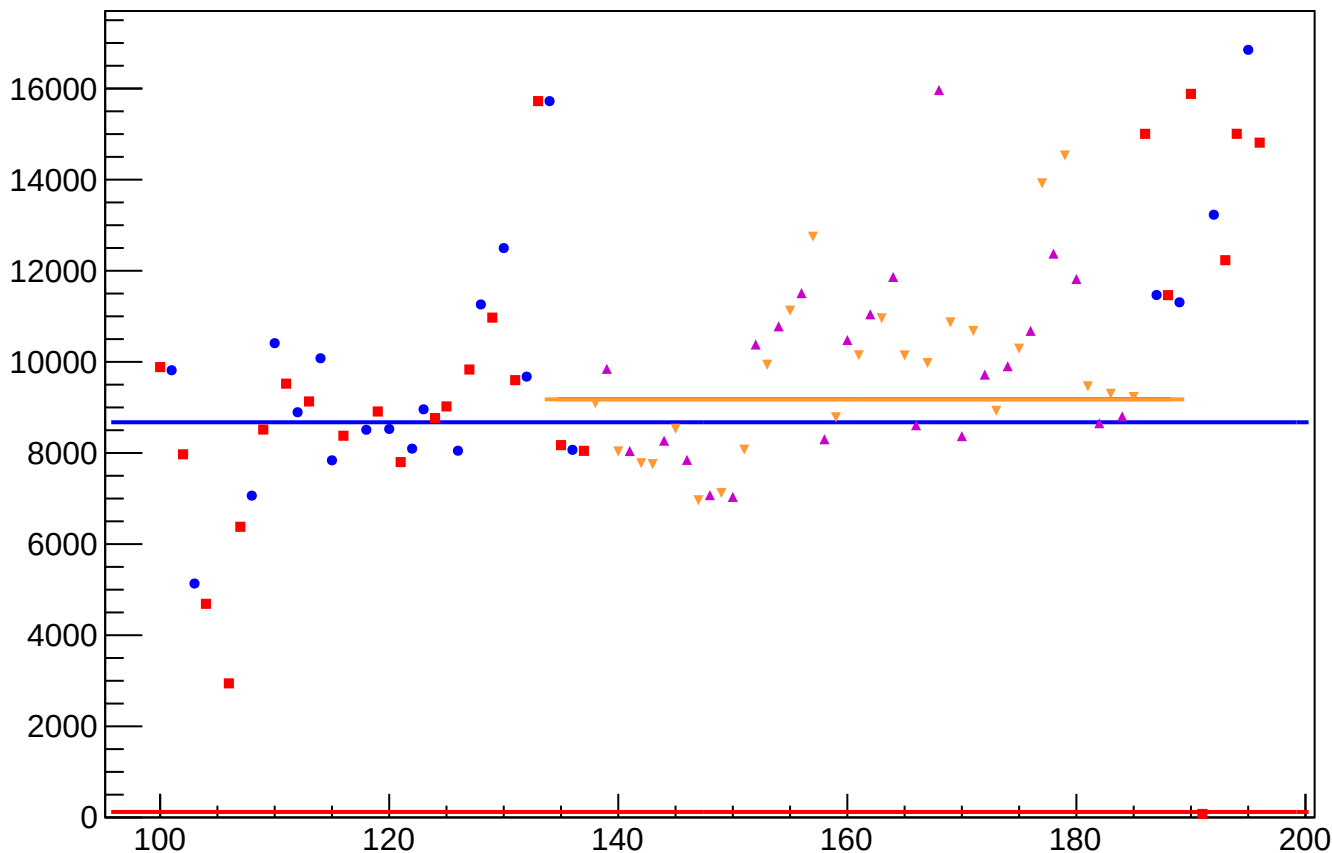
Right: -148.596+/-194.614 χ^2/NDF : 48.9/46

In: -761.814+/-1805.002 χ^2/NDF : 34.1/43

Out: -132.615+/-194.241 χ^2/NDF : 58.7/50

All: -139.818+/-193.126 χ^2/NDF : 93.0/94

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8674.614+/-2.150

χ^2/NDF : 1536017.5/20

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 120.470+/-0.138

χ^2/NDF : 21177820.5/25

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 155.506+/-0.138

χ^2/NDF : 38474822.7/46

In: 9002.755+/-1.276

χ^2/NDF : 2808443.2/43

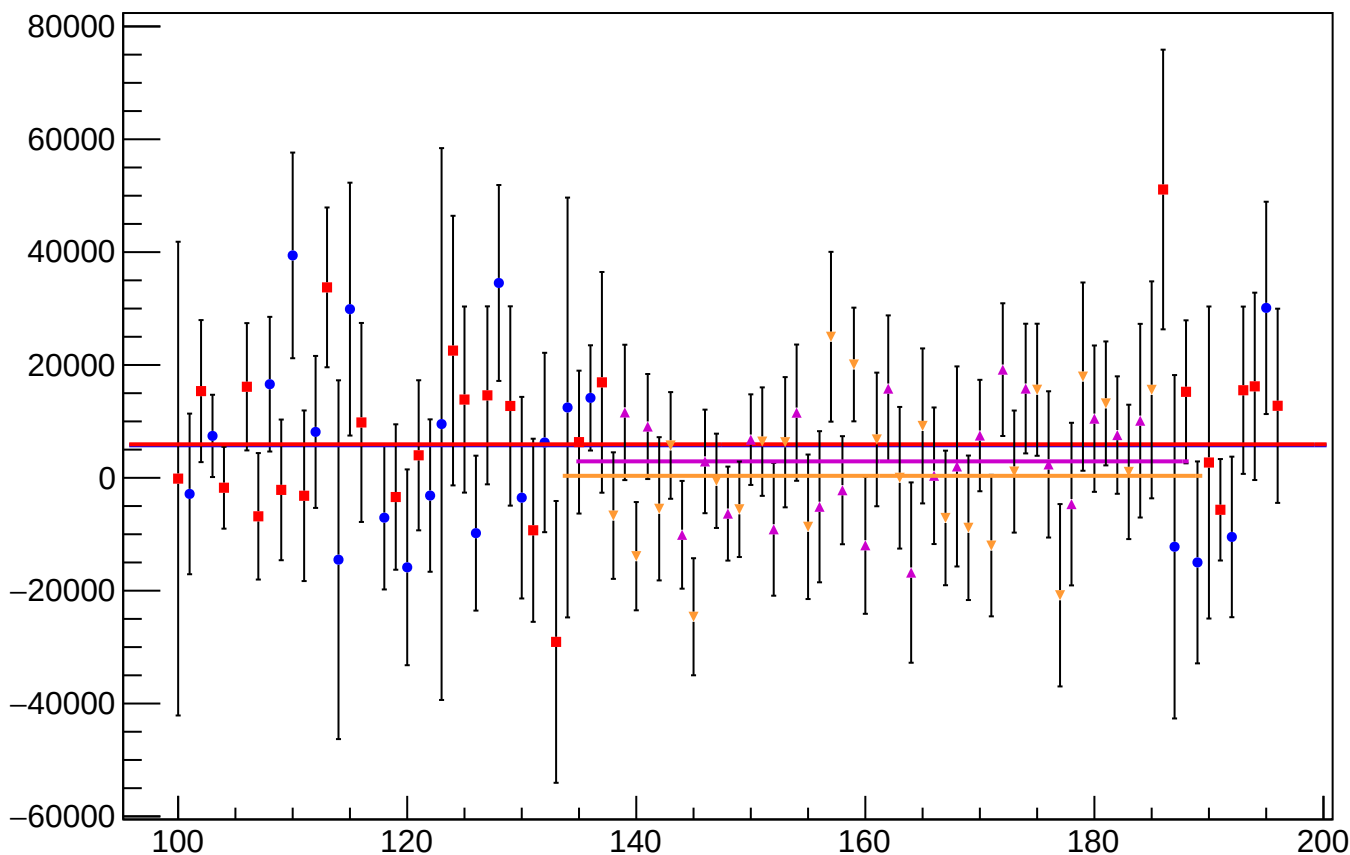
Out: 192.088+/-0.137

χ^2/NDF : 56466790.5/50

All: 292.952+/-0.137

χ^2/NDF : 106382922.6/50

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5768.994+/-3201.244 χ^2/NDF : 19.1/20

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 5941.648+/-2748.310 χ^2/NDF : 19.9/25

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

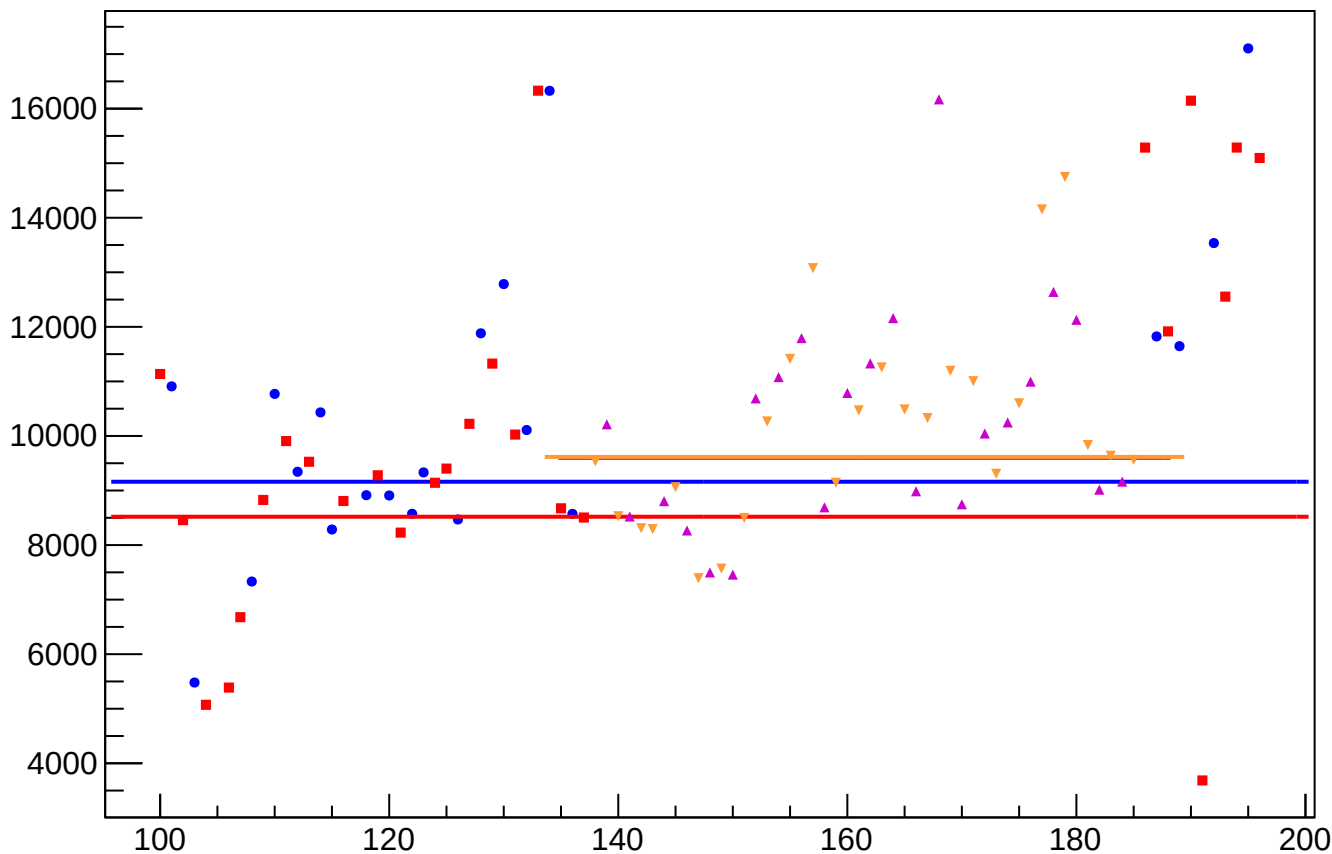
Right: 5868.389+/-2085.260 χ^2/NDF : 39.0/46

In: 3910.216+/-1888.308 χ^2/NDF : 34.5/43

Out: 2634.903+/-1755.528 χ^2/NDF : 48.6/50

All: 3226.149+/-1285.727 χ^2/NDF : 83.3/94

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9160.727 $\pm$ 2.264

χ^2/NDF : 1439373.4/20

Left: 9607.606 $\pm$ 1.155 χ^2/NDF : 2093896.0/47

Right: 8791.521 $\pm$ 1.474 χ^2/NDF : 4279994.3/46

Left Out: 9616.245 $\pm$ 1.613

χ^2/NDF : 1011665.6/24

In: 9446.200 $\pm$ 1.335 χ^2/NDF : 2545936.5/43

Right Out: 8519.420 $\pm$ 1.943

χ^2/NDF : 2794411.9/25

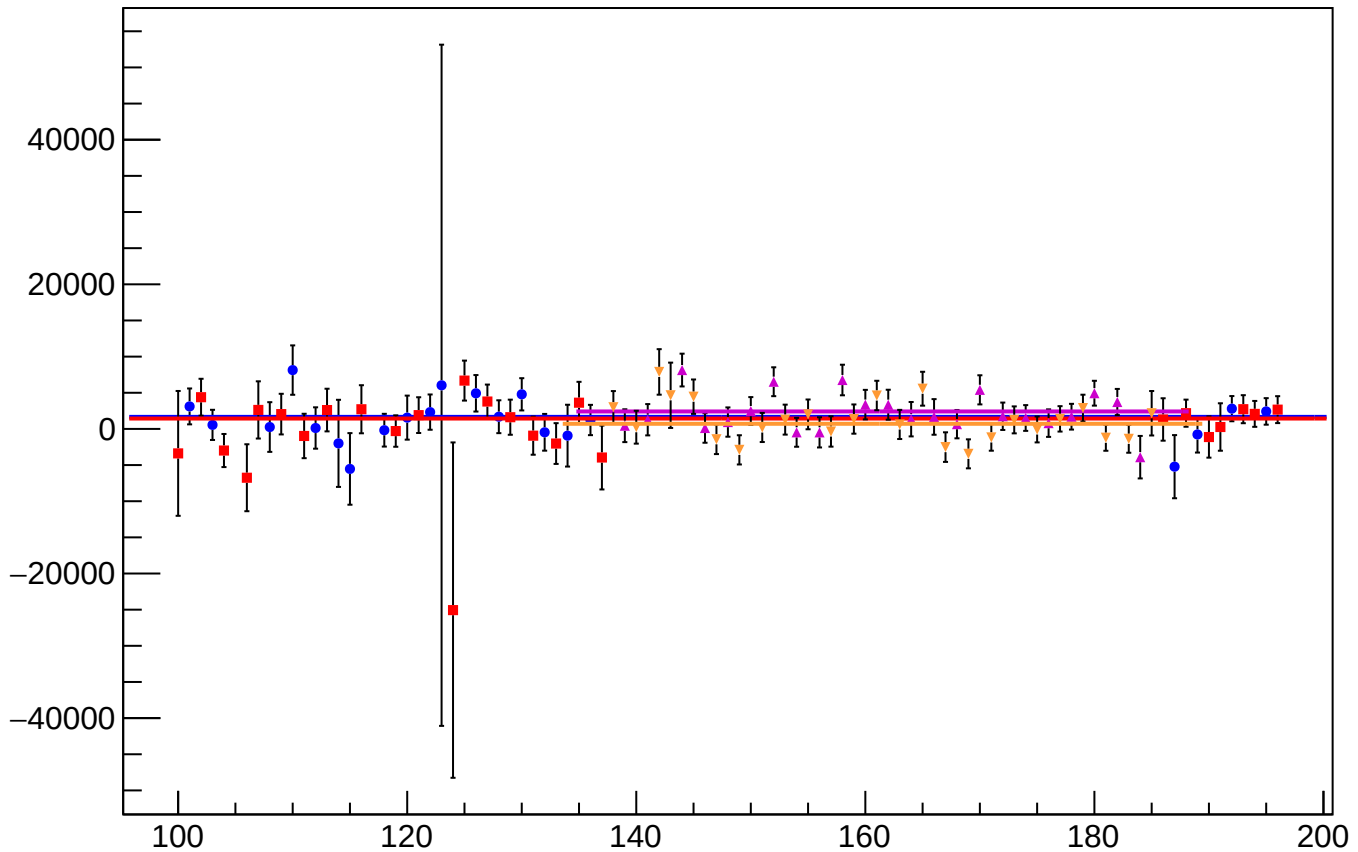
Out: 9168.697 $\pm$ 1.241 χ^2/NDF : 3994658.3/50

Left In: 9598.531 $\pm$ 1.654

χ^2/NDF : 1082171.6/22

All: 9297.348 $\pm$ 0.909 χ^2/NDF : 6563763.8/94

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1665.106+/-572.394 χ^2/NDF : 16.7/20

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1435.913+/-520.572 χ^2/NDF : 22.6/25

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

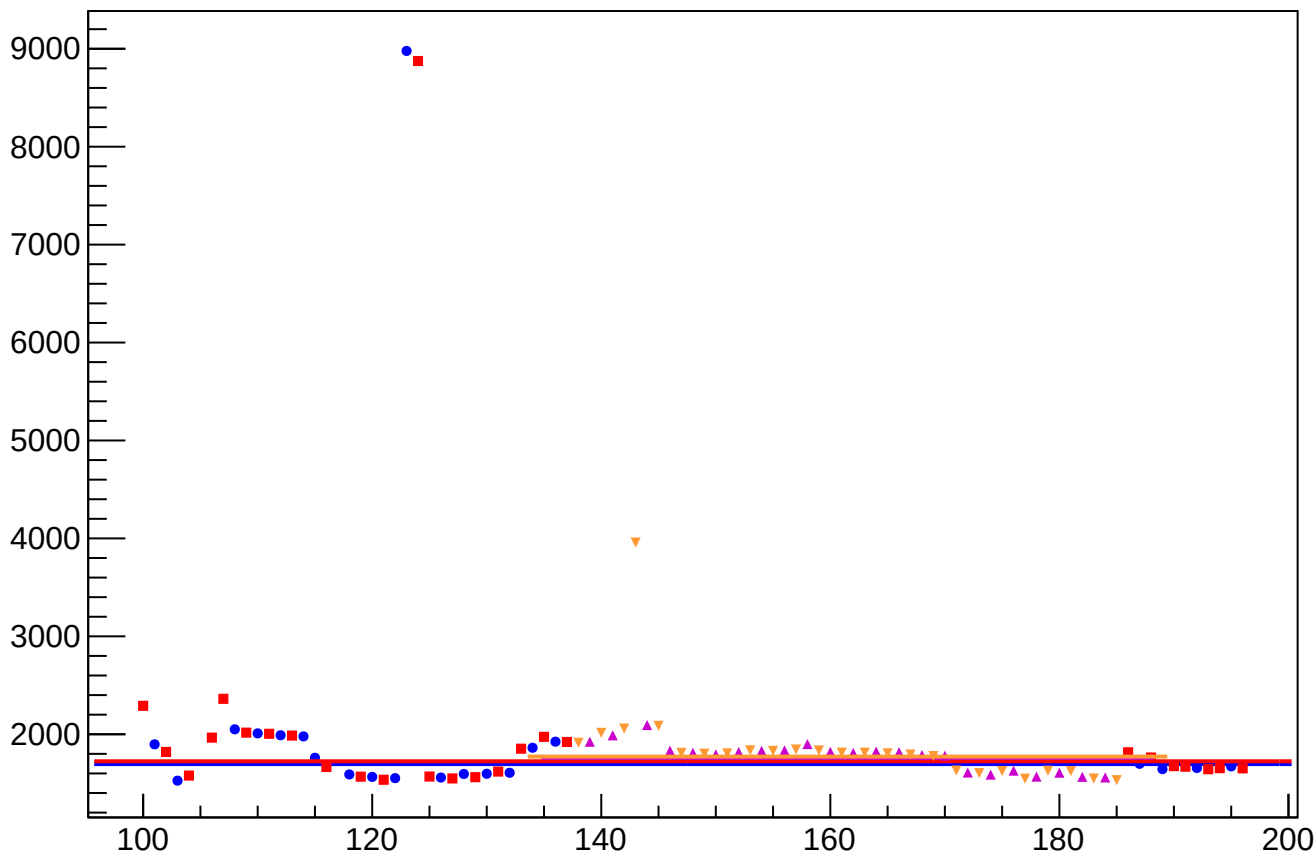
Right: 1539.667+/-385.120 χ^2/NDF : 39.4/46

In: 2149.577+/-340.433 χ^2/NDF : 51.8/43

Out: 993.876+/-325.636 χ^2/NDF : 58.7/50

All: 1546.066+/-235.317 χ^2/NDF : 116.5/94

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1695.524+/-0.405 χ^2/NDF : 198691.5/20

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1723.958+/-0.367 χ^2/NDF : 412480.0/25

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

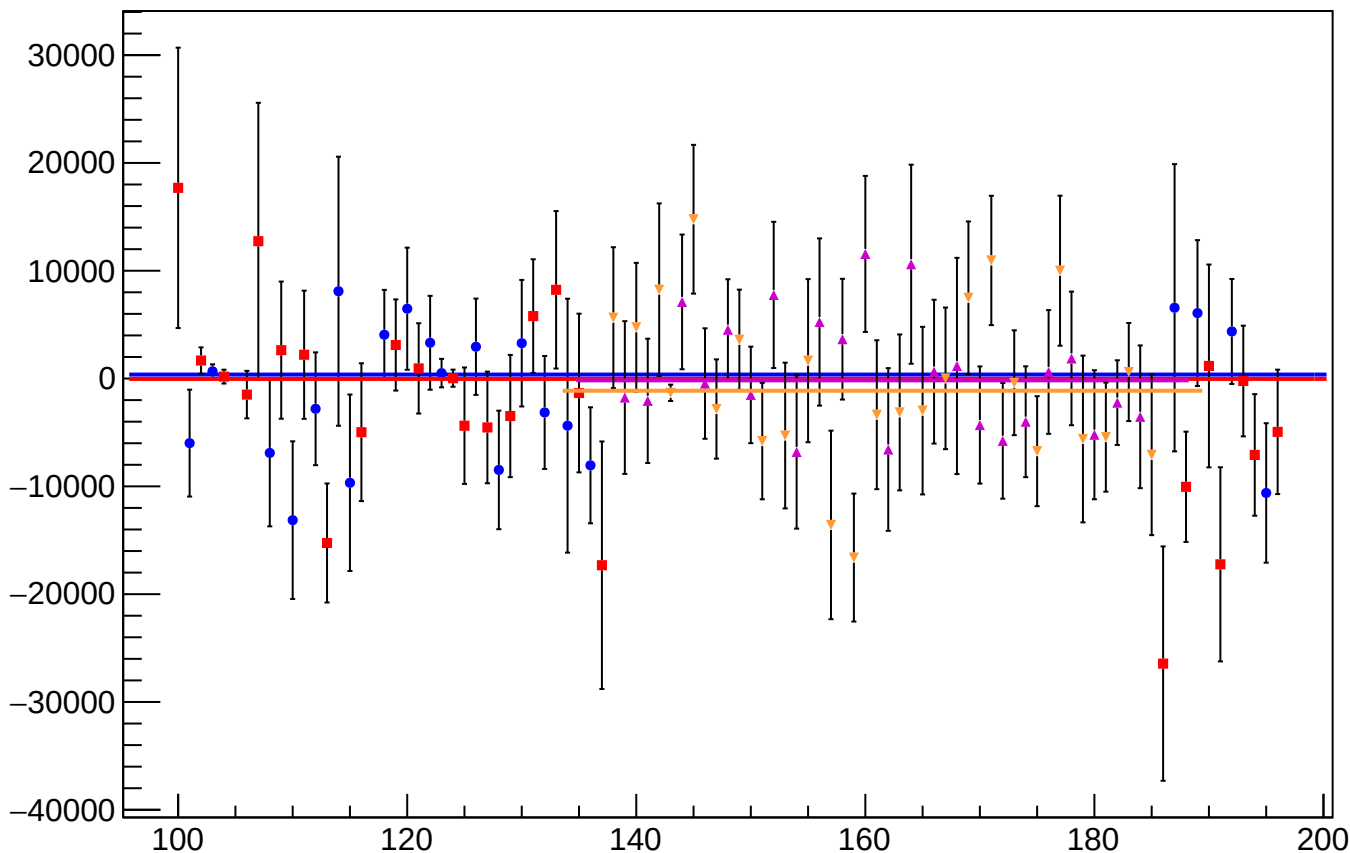
Right: 1711.124+/-0.272 χ^2/NDF : 613879.3/46

In: 1736.934+/-0.241 χ^2/NDF : 429780.3/43

Out: 1753.168+/-0.230 χ^2/NDF : 1125374.5/50

All: 1745.420+/-0.166 χ^2/NDF : 1557532.1/94

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 369.749 ± 533.419 $\chi^2/\text{NDF}: 21.8/20$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: -33.940 ± 426.912 $\chi^2/\text{NDF}: 36.7/25$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

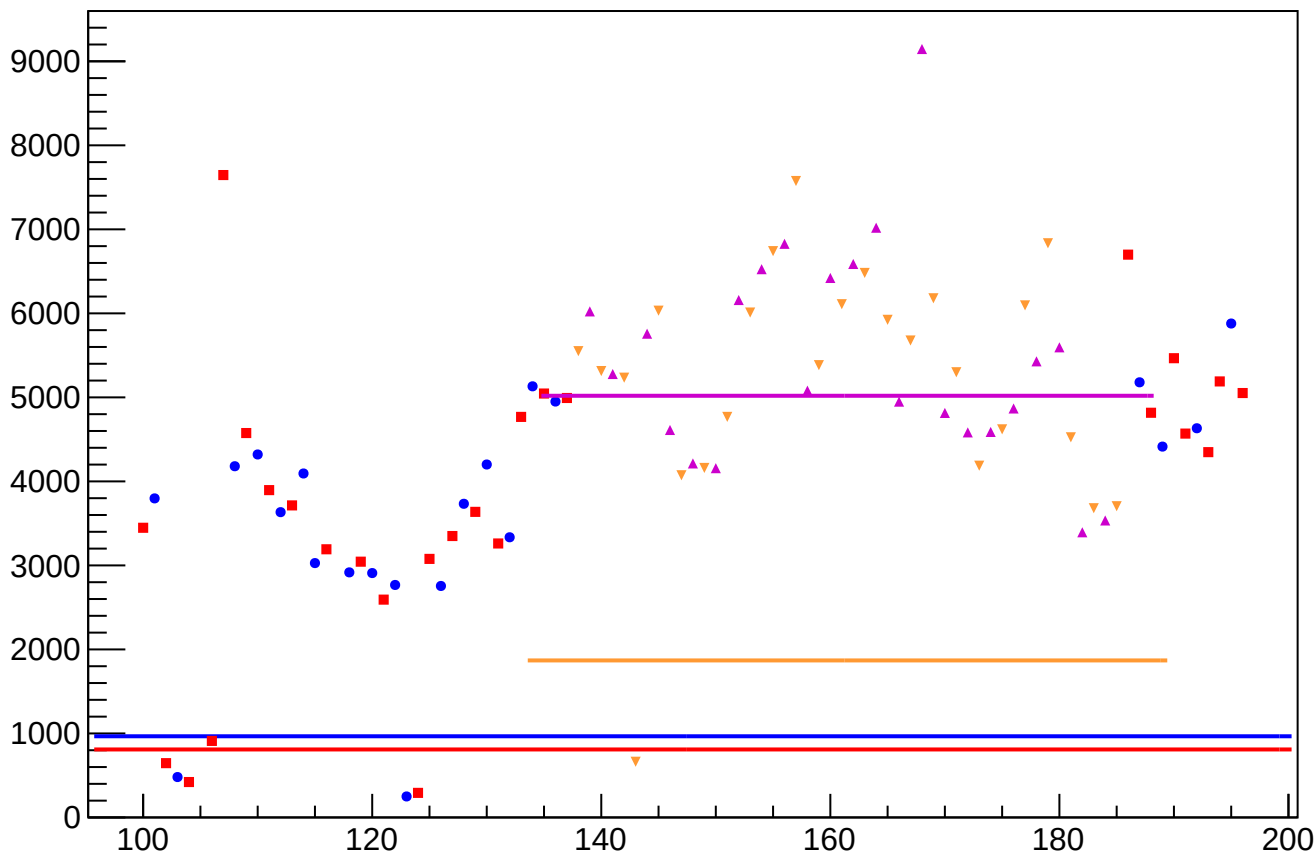
Right: 123.677 ± 333.308 $\chi^2/\text{NDF}: 58.9/46$

In: 284.875 ± 489.532 $\chi^2/\text{NDF}: 36.1/43$

Out: -365.909 ± 356.432 $\chi^2/\text{NDF}: 70.2/50$

All: -140.435 ± 288.145 $\chi^2/\text{NDF}: 107.5/94$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 966.281+/-0.377 χ^2/NDF : 11214178.5/20

Left Out: 1868.983+/-0.458 χ^2/NDF : 19852416.6/24

Right Out: 809.298+/-0.302 χ^2/NDF : 14434469.0/25

Left In: 5019.114+/-0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

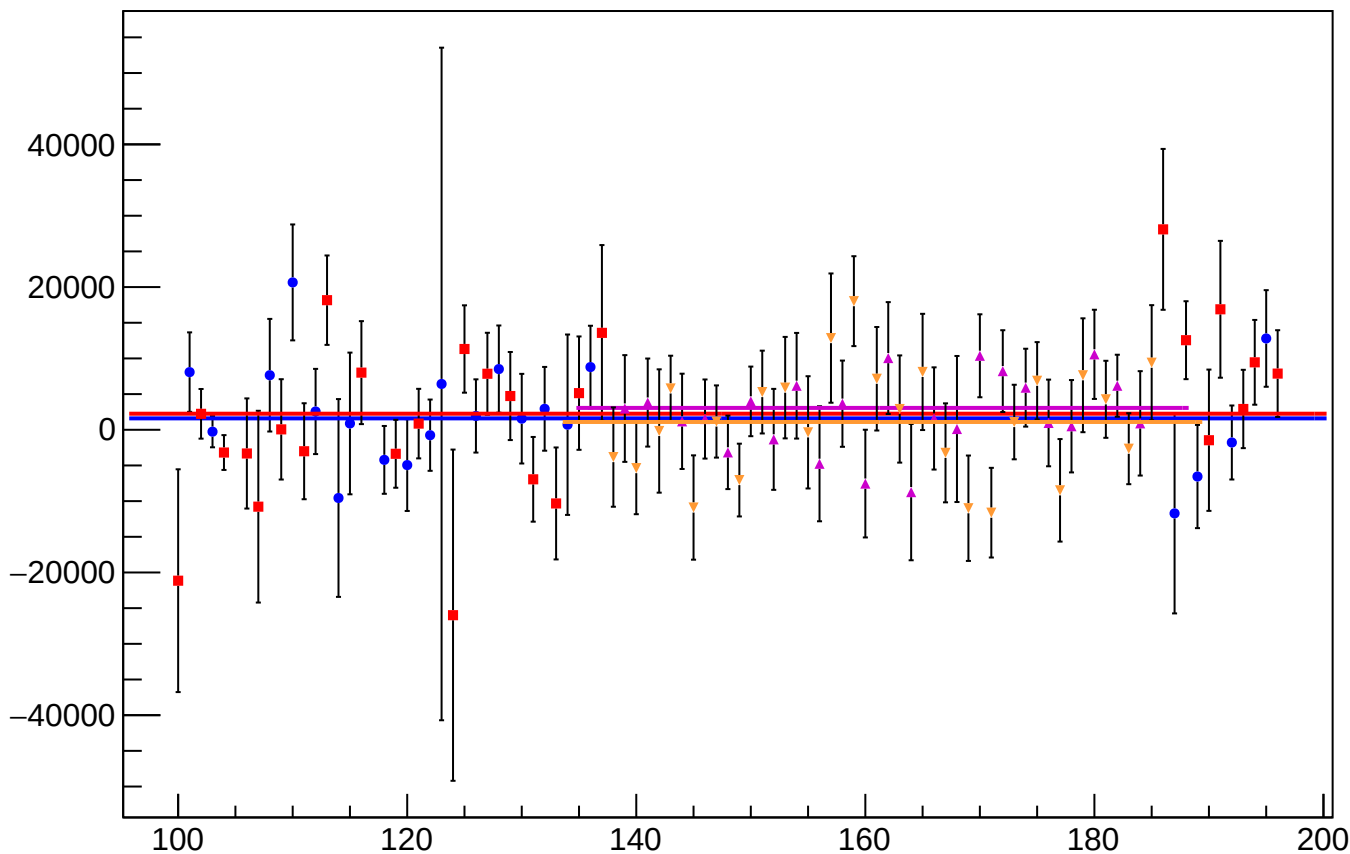
Right: 870.591+/-0.236 χ^2/NDF : 25754235.8/46

In: 1605.736+/-0.346 χ^2/NDF : 30999576.1/43

Out: 1130.307+/-0.252 χ^2/NDF : 38019797.0/50

All: 1295.027+/-0.204 χ^2/NDF : 70252216.3/95

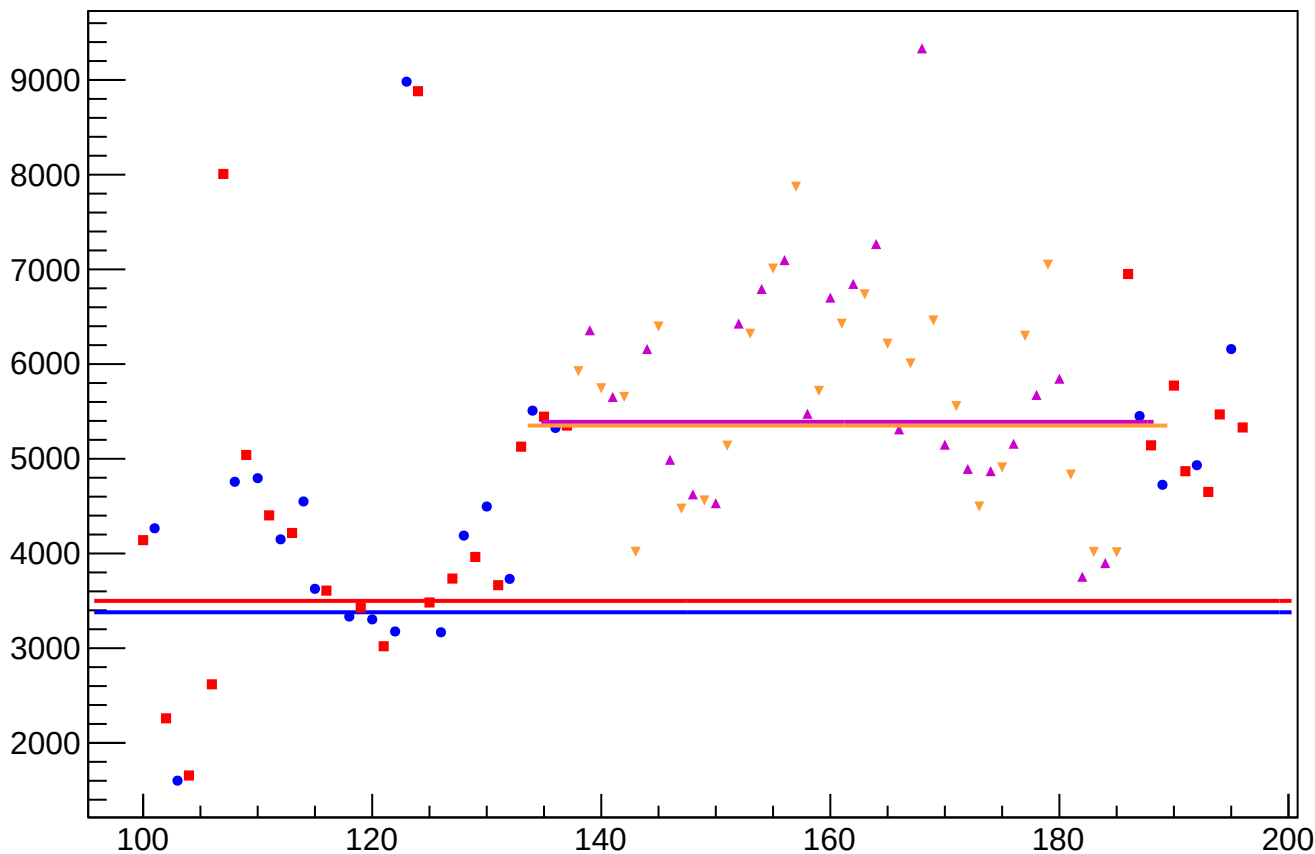
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1597.511+/-1228.105 χ^2/NDF : 19.8/20
 Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24
 Right Out: 2252.675+/-1152.047 χ^2/NDF : 42.3/25
 Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47
 Right: 1946.007+/-840.222 χ^2/NDF : 62.3/46
 In: 2279.307+/-898.557 χ^2/NDF : 33.1/43
 Out: 1731.178+/-854.223 χ^2/NDF : 74.7/50
 All: 1991.387+/-619.107 χ^2/NDF : 108.0/94

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3379.317 ± 0.868 χ^2/NDF : 2594408.7/20

Left Out: 5350.804 ± 0.900 χ^2/NDF : 1241497.9/24

Right Out: 3499.658 ± 0.805 χ^2/NDF : 3234958.1/25

Left In: 5389.724 ± 0.932 χ^2/NDF : 1309863.0/22

Left: 5369.587 ± 0.648 χ^2/NDF : 2552263.0/47

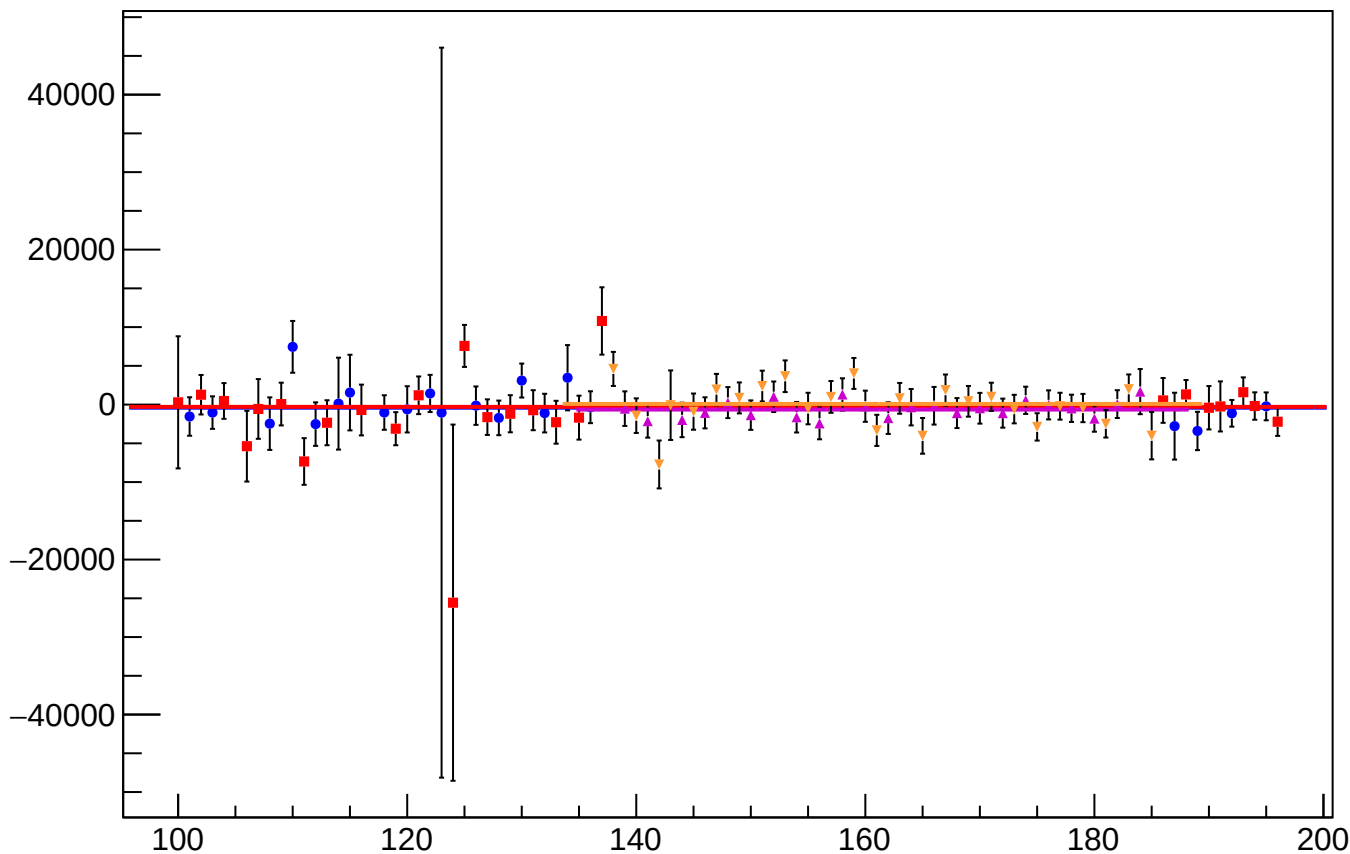
Right: 3444.031 ± 0.590 χ^2/NDF : 5839693.9/46

In: 4313.492 ± 0.635 χ^2/NDF : 6394705.0/43

Out: 4322.311 ± 0.600 χ^2/NDF : 6825755.3/50

All: 4318.153 ± 0.436 χ^2/NDF : 13220562.1/9

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -395.570 ± 564.371 $\chi^2/\text{NDF}: 13.4/20$

Left Out: 86.214 ± 411.530 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -294.100 ± 512.988 $\chi^2/\text{NDF}: 30.2/25$

Left In: -640.235 ± 417.645 $\chi^2/\text{NDF}: 6.2/22$

Left: -271.653 ± 293.134 $\chi^2/\text{NDF}: 43.7/47$

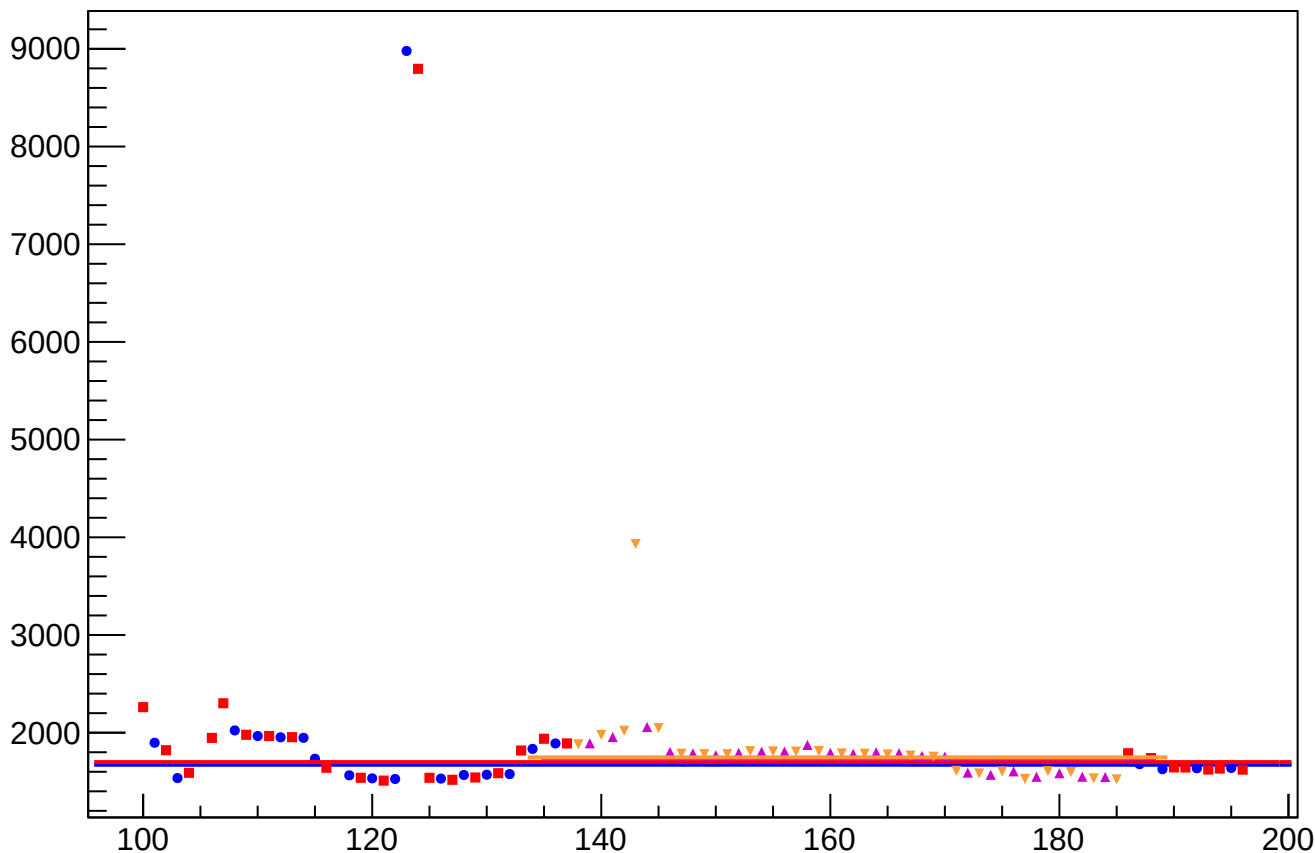
Right: -340.006 ± 379.606 $\chi^2/\text{NDF}: 43.6/46$

In: -553.660 ± 335.718 $\chi^2/\text{NDF}: 19.7/43$

Out: -62.703 ± 321.003 $\chi^2/\text{NDF}: 66.5/50$

All: -297.187 ± 232.011 $\chi^2/\text{NDF}: 87.3/94$

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1671.818+/-0.399 χ^2/NDF : 196972.4/20

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1699.187+/-0.362 χ^2/NDF : 409034.5/25

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

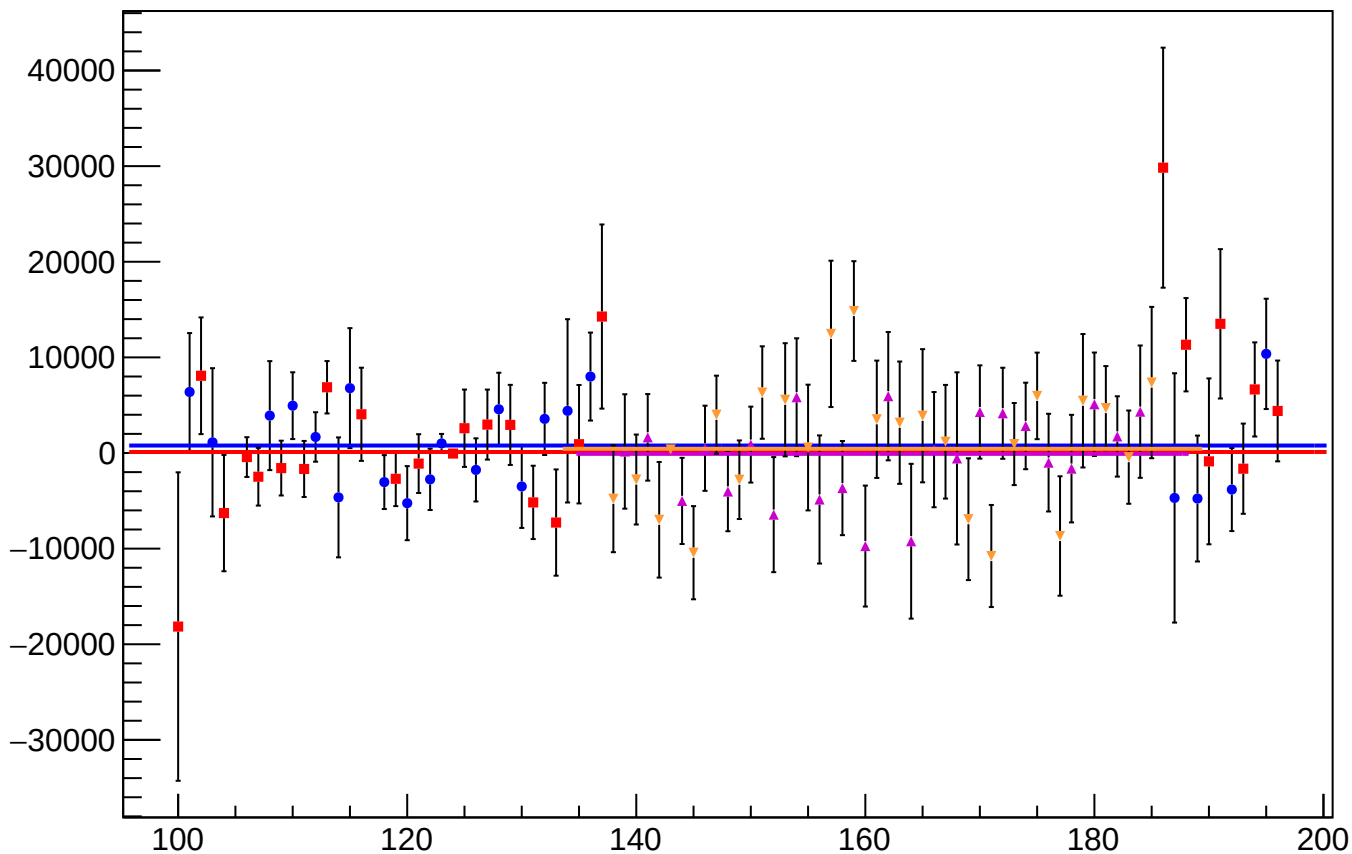
Right: 1686.840+/-0.268 χ^2/NDF : 608588.5/46

In: 1712.992+/-0.237 χ^2/NDF : 420213.8/43

Out: 1728.413+/-0.227 χ^2/NDF : 1117974.4/50

All: 1721.056+/-0.164 χ^2/NDF : 1540394.6/94

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 780.453 $\pm$ 687.857 χ^2 /NDF: 20.3/20

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: 107.272 $\pm$ 352.825 χ^2 /NDF: 37.4/25

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

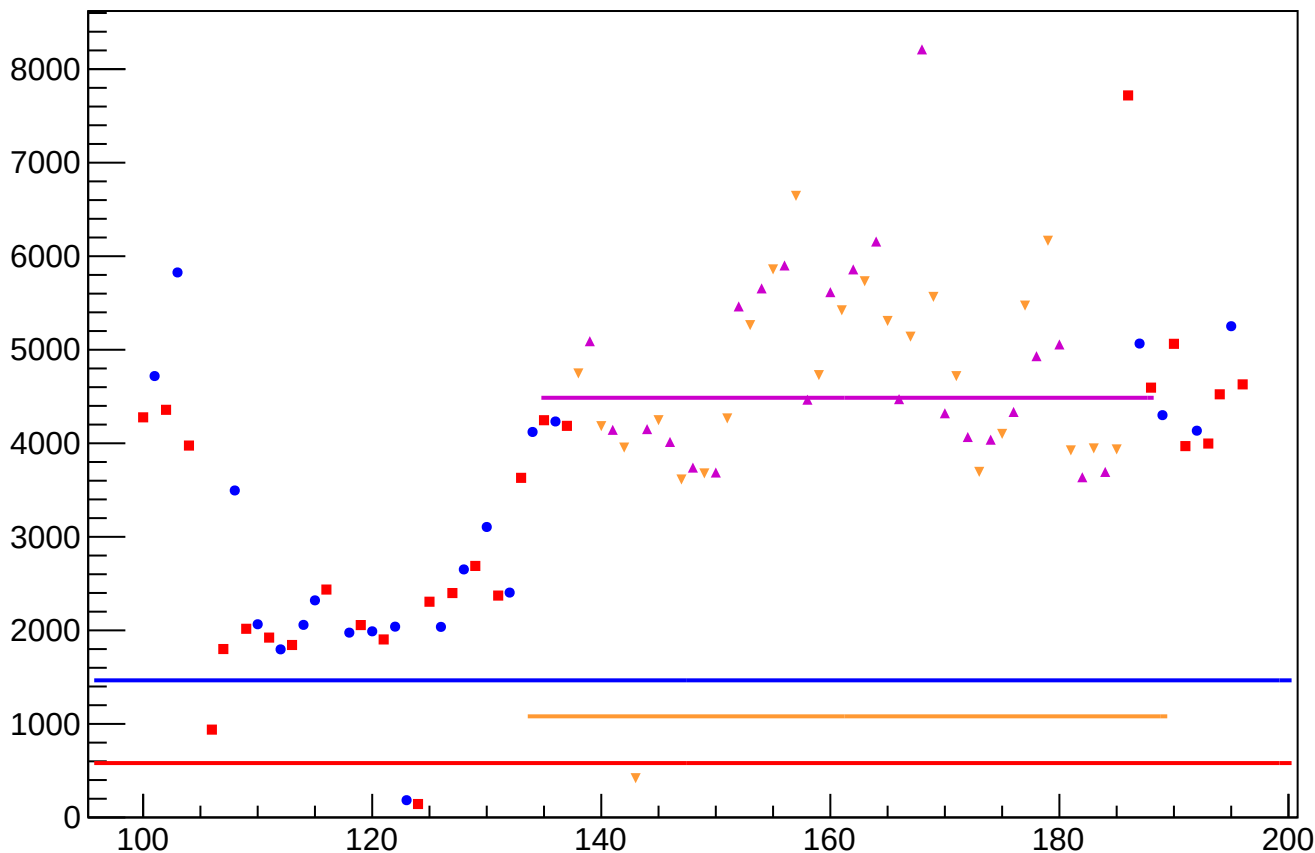
Right: 247.494 $\pm$ 313.936 χ^2 /NDF: 58.4/46

In: 534.525 $\pm$ 582.443 χ^2 /NDF:34.2/43

Out: 238.223 $\pm$ 275.340 χ^2 /NDF:71.6/50

All: 292.344 $\pm$ 248.927 χ^2 /NDF: 106.0/94

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1465.817 $\pm$ 0.486

χ^2/NDF : 8765981.4/20

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right Out: 581.393 $\pm$ 0.249

χ^2/NDF : 16699232.9/25

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: 765.617 $\pm$ 0.222

χ^2/NDF : 28082890.0/46

In: 2320.732 $\pm$ 0.412

χ^2/NDF : 20863780.5/43

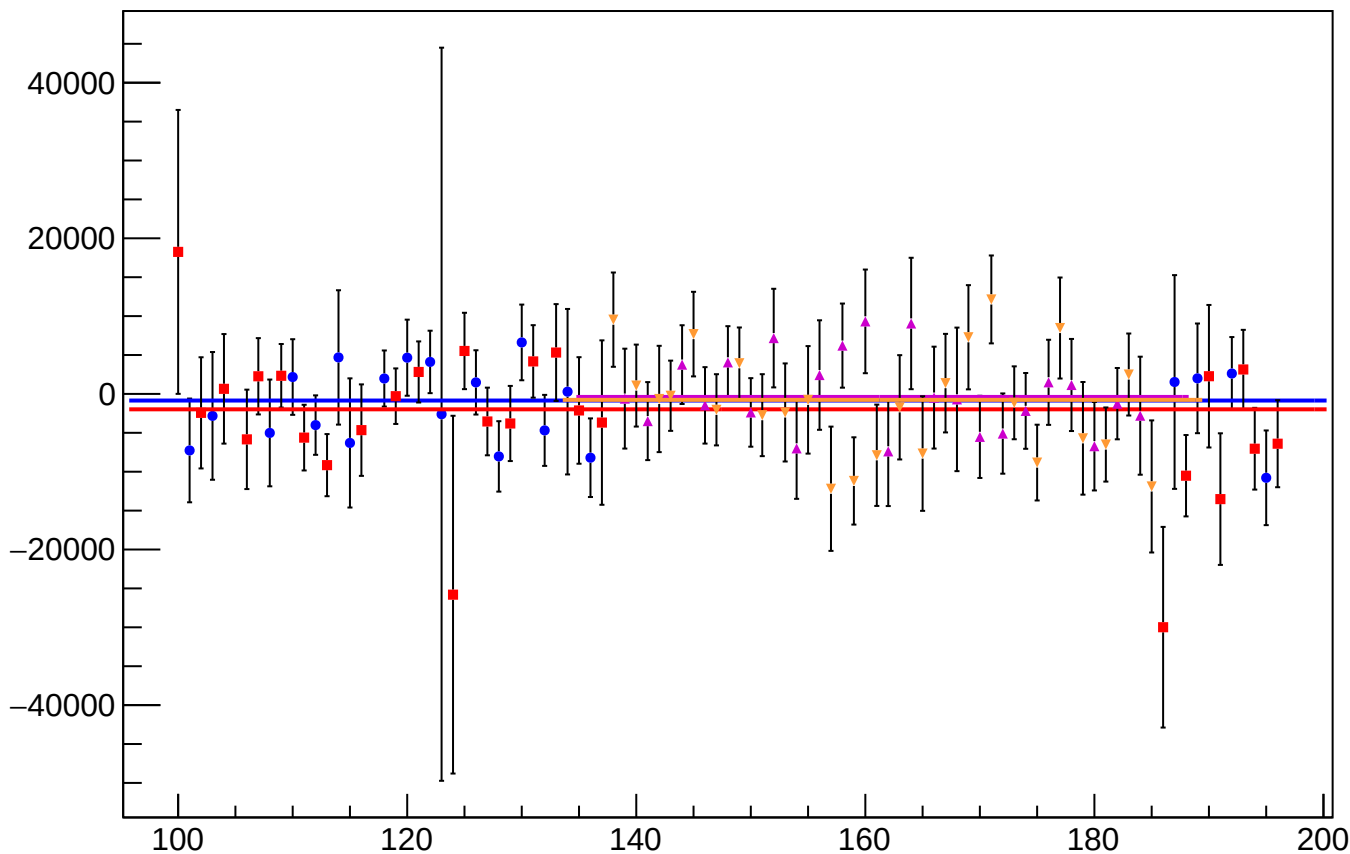
Out: 776.739 $\pm$ 0.195

χ^2/NDF : 42723481.6/50

All: 1058.760 $\pm$ 0.176

χ^2/NDF : 75074539.4/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -851.144 ± 1176.607 $\chi^2/NDF: 18.1/20$

Left Out: -766.008 ± 1147.372 $\chi^2/NDF: 29.9/24$

Right Out: -1981.696 ± 1068.145 $\chi^2/NDF: 28.4/25$

Left In: -388.944 ± 1186.300 $\chi^2/NDF: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/NDF: 44.2/47$

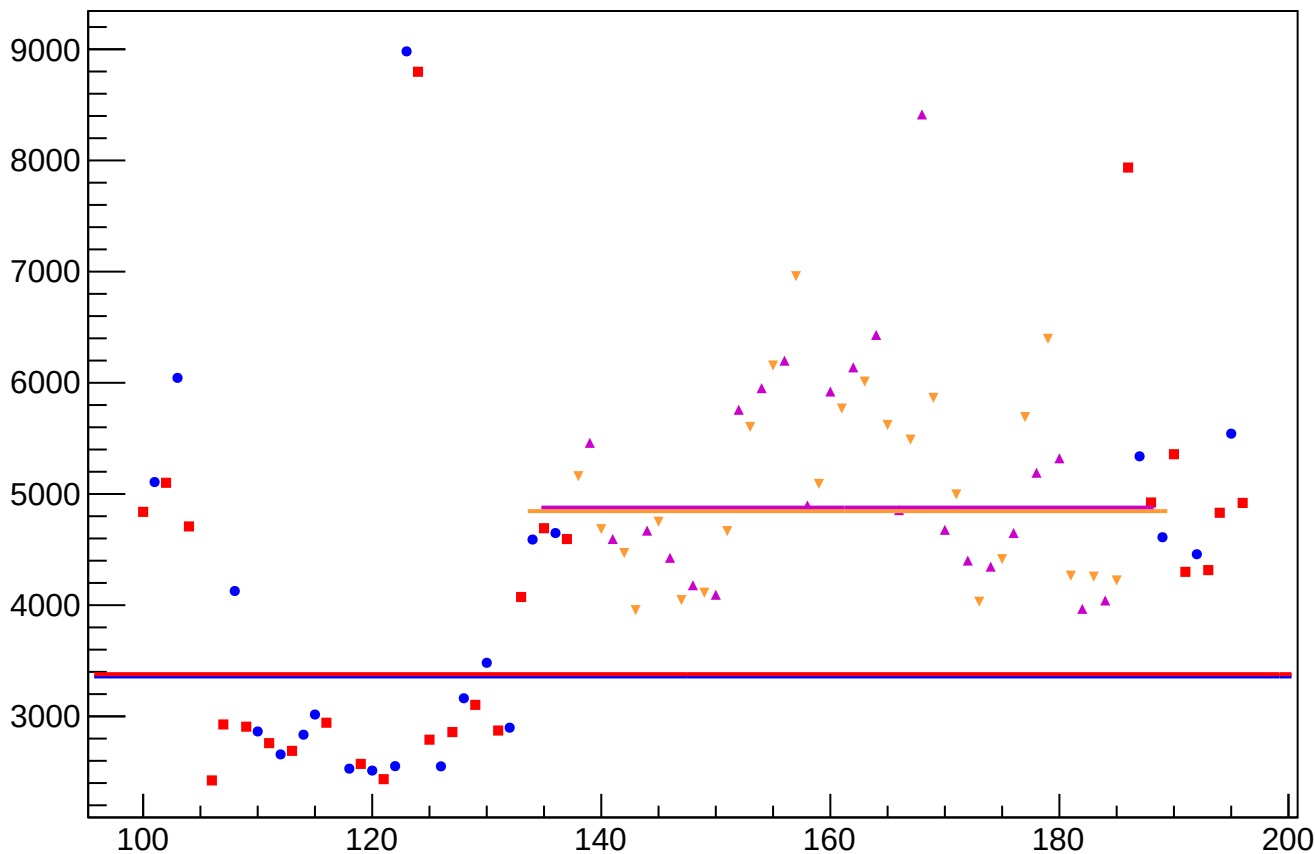
Right: -1470.919 ± 790.864 $\chi^2/NDF: 47.0/46$

In: -621.939 ± 835.393 $\chi^2/NDF: 32.4/43$

Out: -1417.269 ± 781.802 $\chi^2/NDF: 58.9/50$

All: -1045.931 ± 570.823 $\chi^2/NDF: 91.7/94$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3358.880 $\pm$ 0.832 χ^2 /NDF: 1482176.6/20

Left Out: 4845.779 $\pm$ 0.811 χ^2 /NDF:909173.9/24

Right Out: 3379.468 $\pm$ 0.748 χ^2 /NDF: 1889981.1/25

Left In: 4877.456 $\pm$ 0.839 χ^2 /NDF:958623.2/22

Left: 4861.089 $\pm$ 0.583 χ^2 /NDF: 1868533.9/47

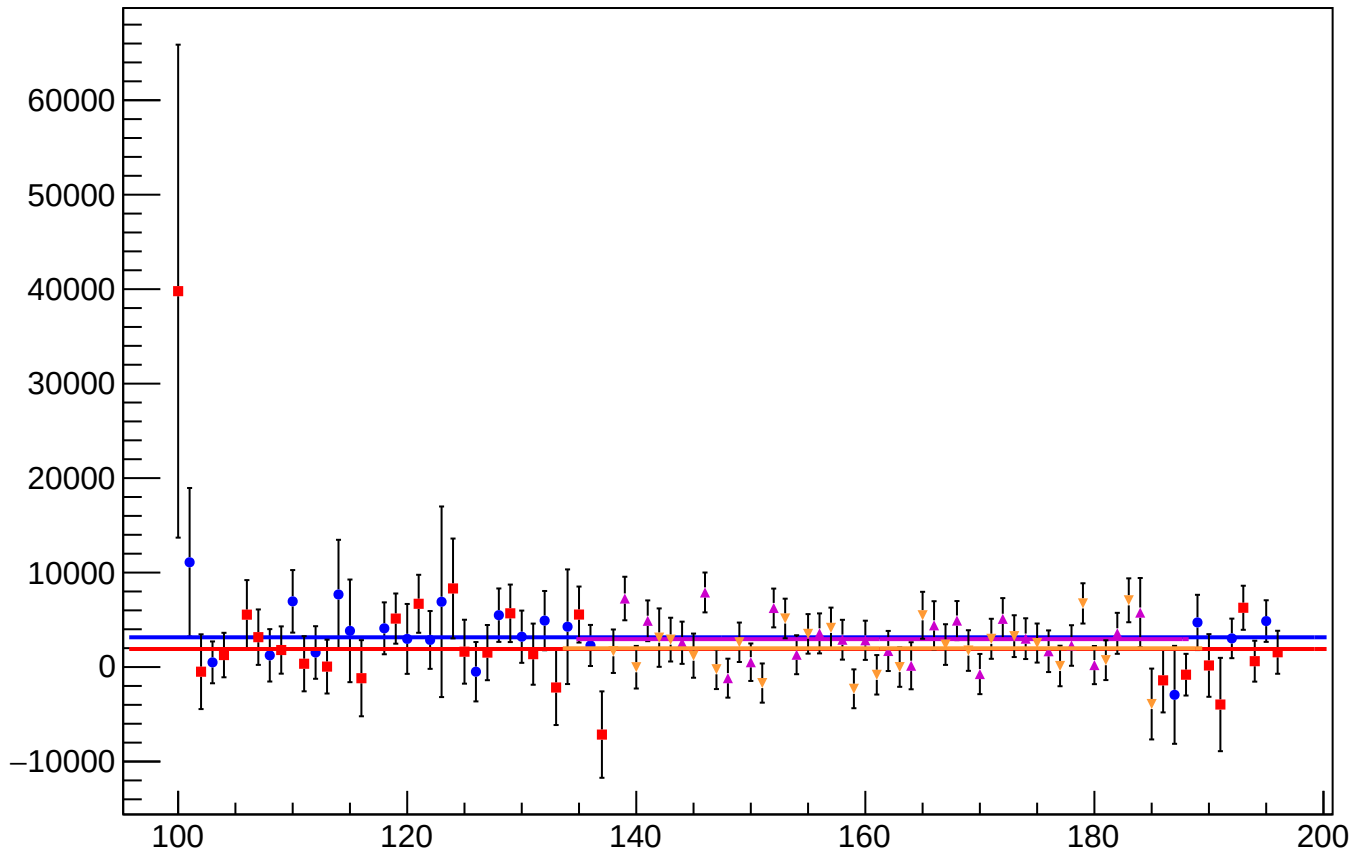
Right: 3370.270 $\pm$ 0.556 χ^2 /NDF: 3372496.4/46

In: 4111.936 $\pm$ 0.591 χ^2 /NDF:4092890.3/43

Out: 4052.892 $\pm$ 0.550 χ^2 /NDF:4565432.4/50

All: 4080.300 $\pm$ 0.402 χ^2 /NDF: 8663675.8/94

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3150.235+/-667.802 χ^2/NDF : 10.3/20

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1911.576+/-594.460 χ^2/NDF : 26.5/25

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

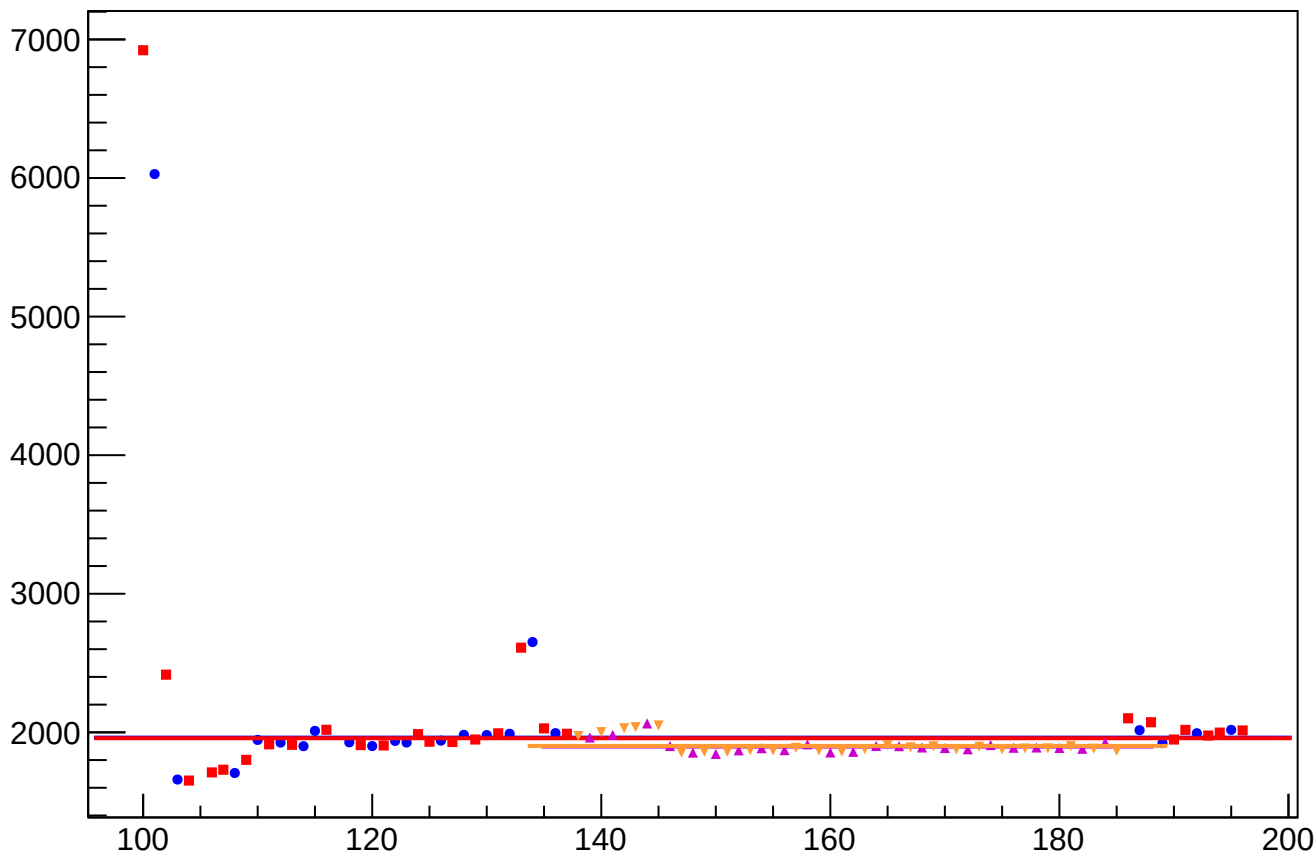
Right: 2459.177+/-444.022 χ^2/NDF : 38.8/46

In: 3017.430+/-375.763 χ^2/NDF : 38.8/43

Out: 1959.071+/-355.312 χ^2/NDF : 59.0/50

All: 2458.667+/-258.171 χ^2/NDF : 102.0/94

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1961.850+/-0.472 χ^2/NDF : 620042.3/20

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1957.431+/-0.420 χ^2/NDF : 233028.6/25

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

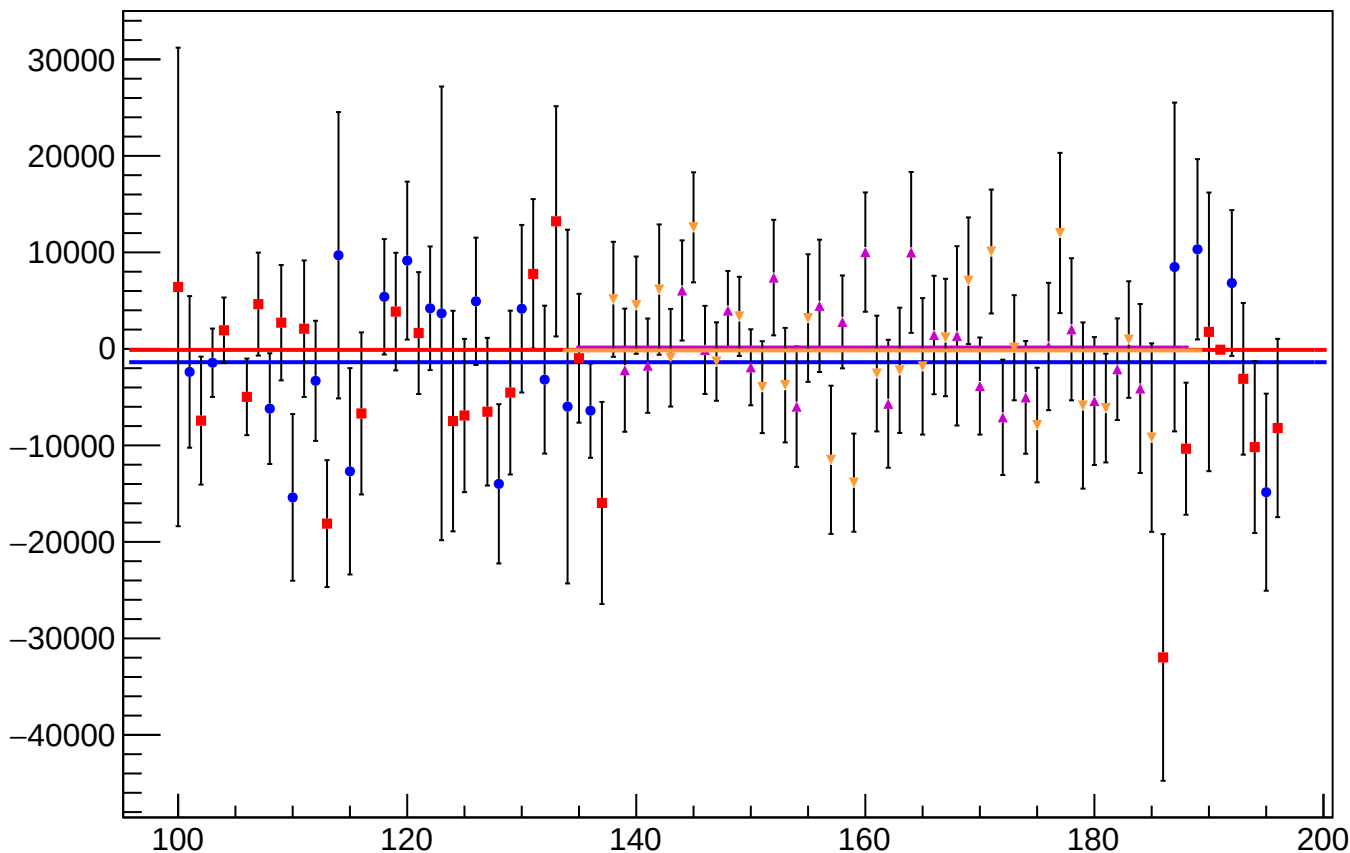
Right: 1959.381+/-0.314 χ^2/NDF : 853119.8/46

In: 1917.844+/-0.266 χ^2/NDF : 653931.0/43

Out: 1921.767+/-0.251 χ^2/NDF : 274721.2/50

All: 1919.916+/-0.183 χ^2/NDF : 928767.3/94

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1379.297 ± 1575.766 $\chi^2/\text{NDF}: 18.5/20$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -101.272 ± 109.598 $\chi^2/\text{NDF}: 30.3/25$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

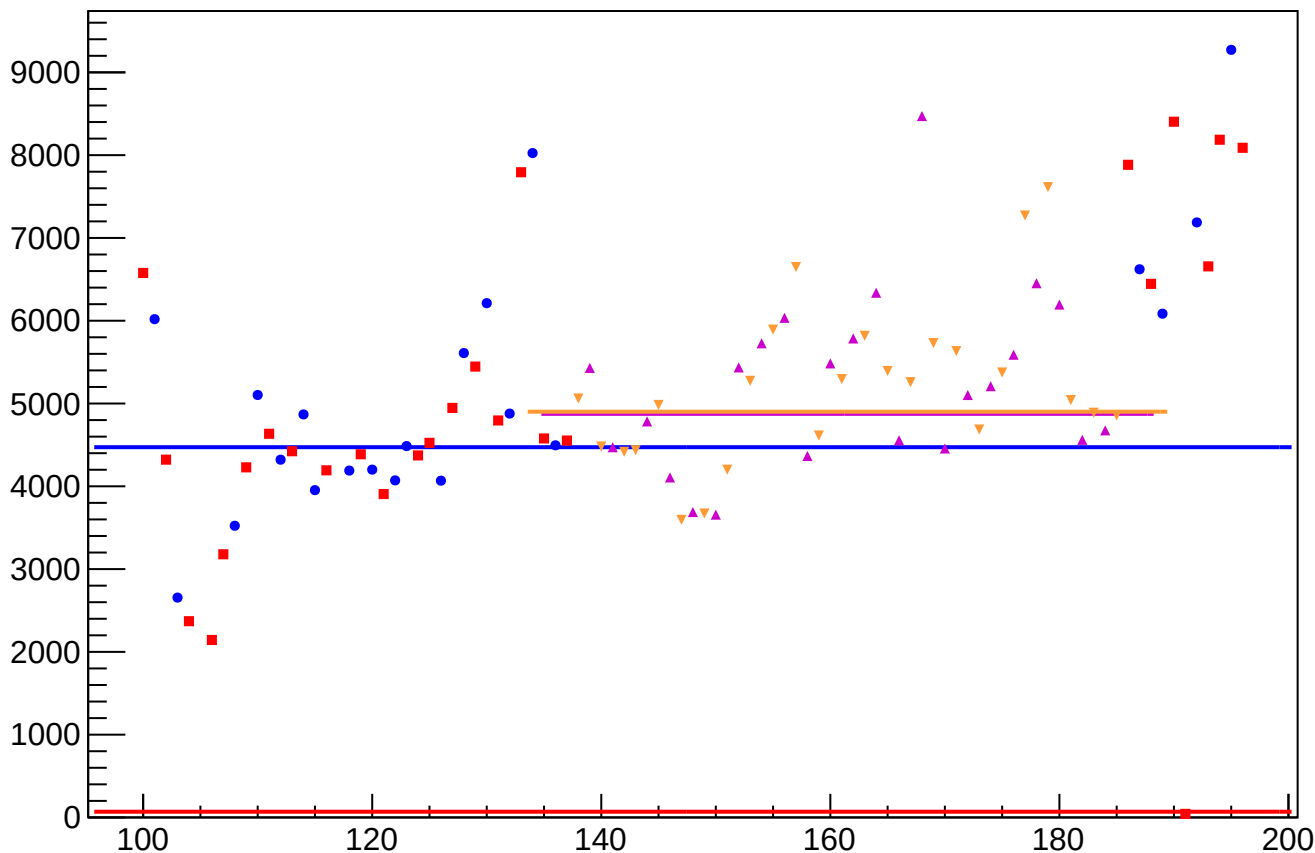
Right: -107.425 ± 109.334 $\chi^2/\text{NDF}: 49.5/46$

In: -412.944 ± 950.082 $\chi^2/\text{NDF}: 33.8/43$

Out: -101.765 ± 109.117 $\chi^2/\text{NDF}: 59.8/50$

All: -105.816 ± 108.404 $\chi^2/\text{NDF}: 93.7/94$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4472.514 $\pm$ 1.114 χ^2 /NDF: 1688937.9/20

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 69.344 $\pm$ 0.077 χ^2 /NDF: 21235945.8/25

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

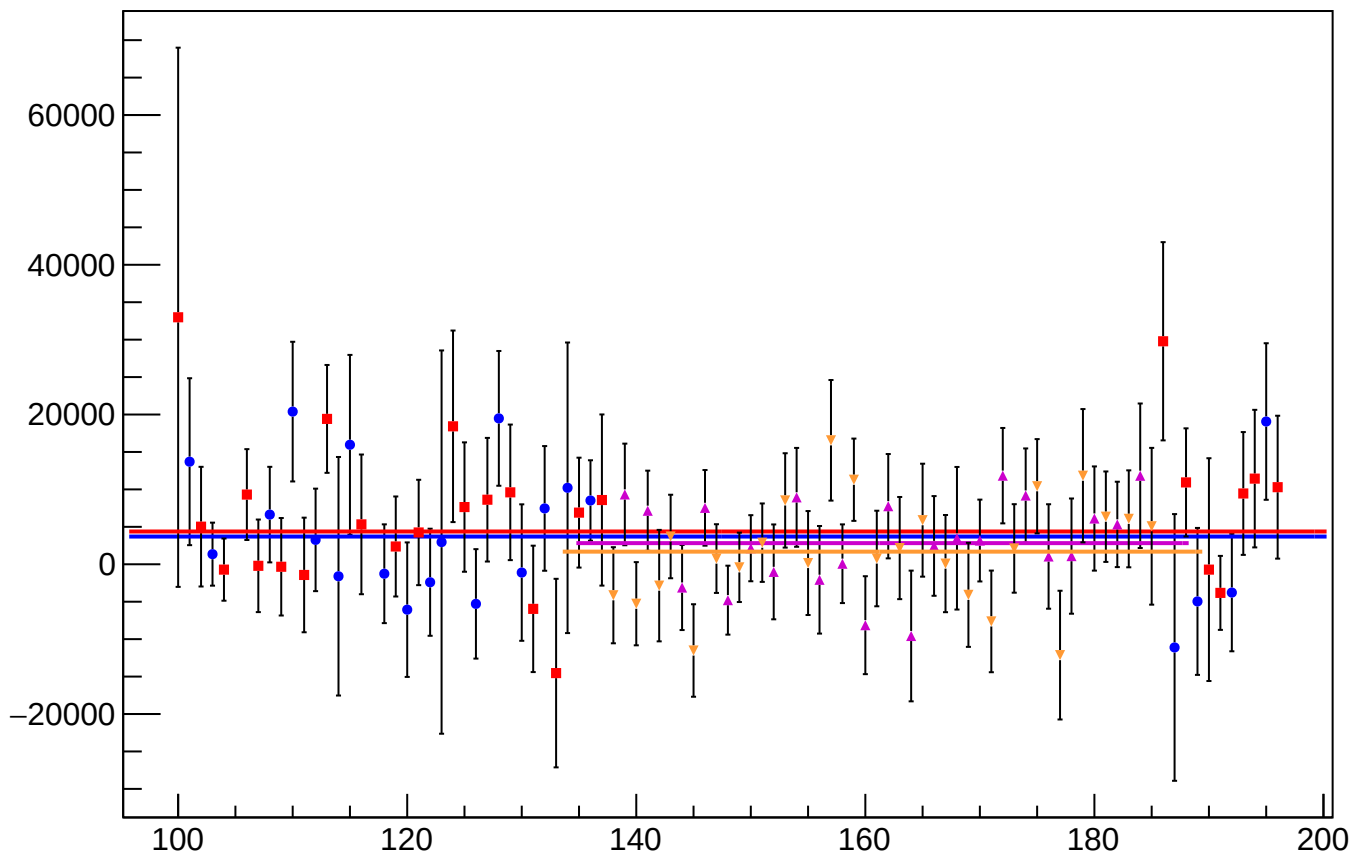
Right: 90.541 $\pm$ 0.077 χ^2 /NDF: 38465976.9/46

In: 4728.756 $\pm$ 0.672 χ^2 /NDF: 3001229.9/43

Out: 111.672 $\pm$ 0.077 χ^2 /NDF: 56428095.6/50

All: 171.781 $\pm$ 0.077 χ^2 /NDF: 106047214.0/95

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3702.000+/-1759.506 χ^2/NDF : 18.7/20

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4377.411+/-1502.772 χ^2/NDF : 23.6/25

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

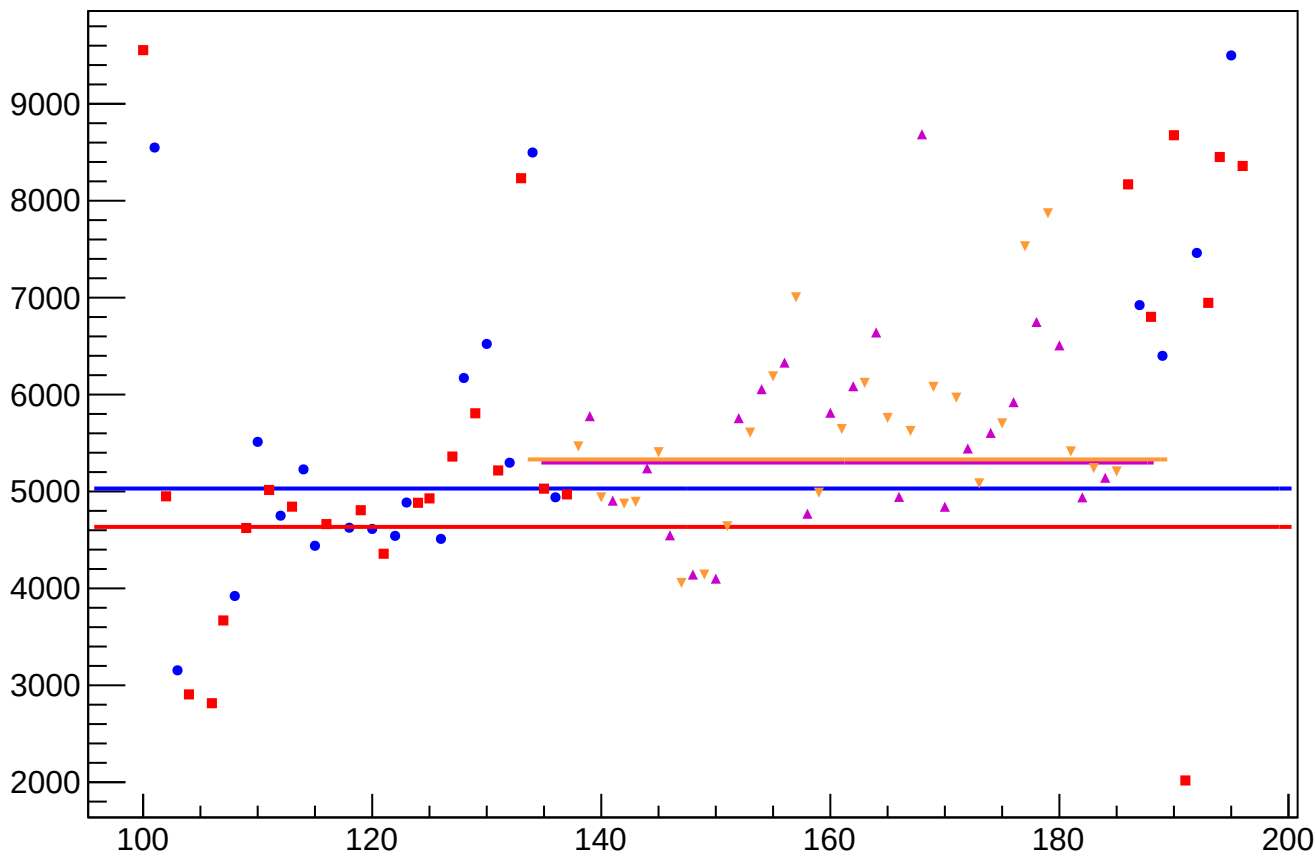
Right: 4092.532+/-1142.713 χ^2/NDF : 42.4/46

In: 3130.512+/-1039.516 χ^2/NDF : 36.9/43

Out: 2799.036+/-966.267 χ^2/NDF : 50.9/50

All: 2952.685+/-707.734 χ^2/NDF : 87.8/94

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5030.537 $\pm$ 1.244 χ^2 /NDF: 1473397.1/20

Left Out: 5330.725 $\pm$ 0.892 χ^2 /NDF: 868061.7/24

Right Out: 4634.592 $\pm$ 1.058 χ^2 /NDF: 2724790.5/25

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

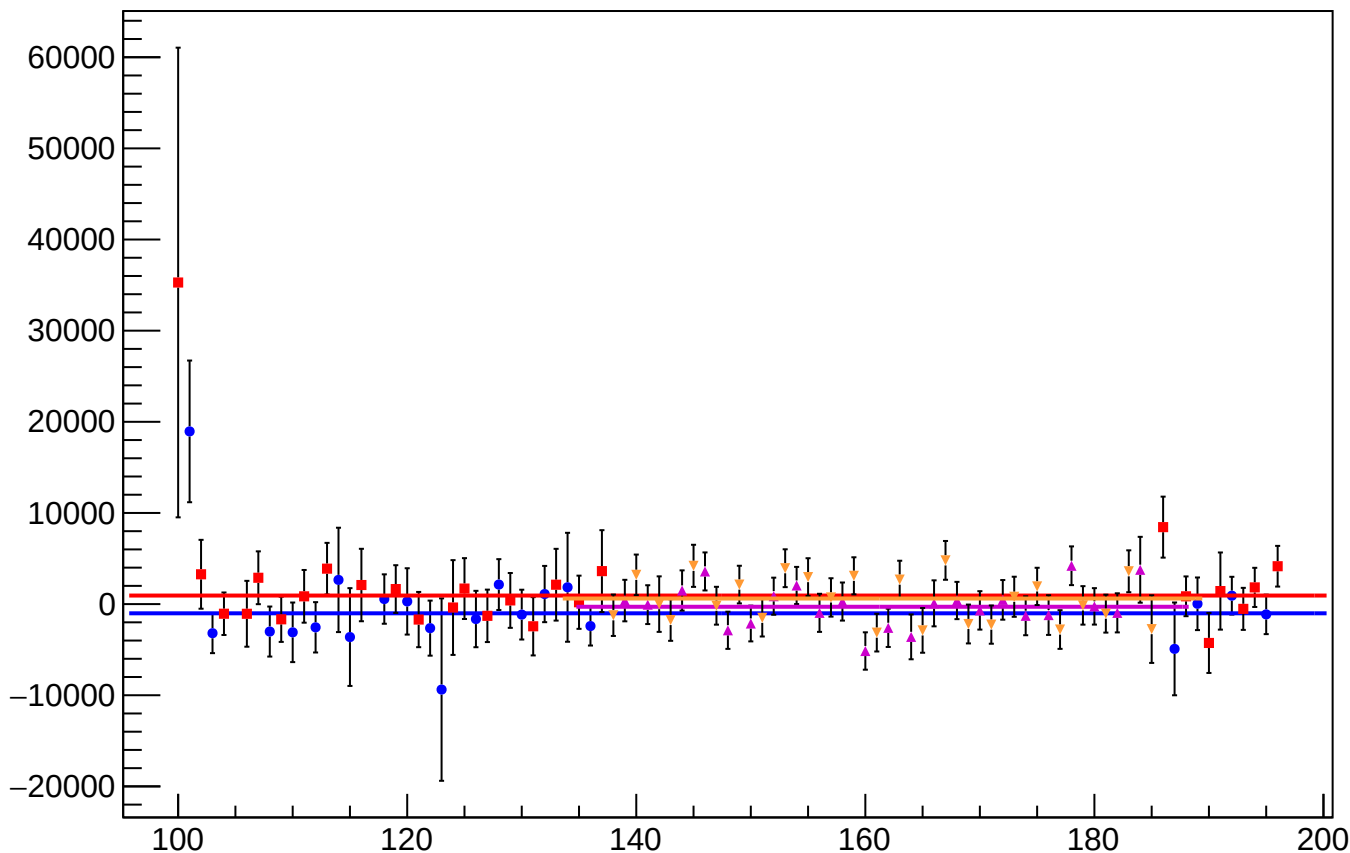
Right: 4800.747 $\pm$ 0.806 χ^2 /NDF: 4256965.7/46

In: 5204.858 $\pm$ 0.735 χ^2 /NDF: 2459576.4/43

Out: 5041.432 $\pm$ 0.682 χ^2 /NDF: 3845888.2/50

All: 5117.036 $\pm$ 0.500 χ^2 /NDF: 6332028.4/94

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1010.327 ± 659.081 $\chi^2/\text{NDF}: 15.0/20$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 938.425 ± 585.518 $\chi^2/\text{NDF}: 19.3/25$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

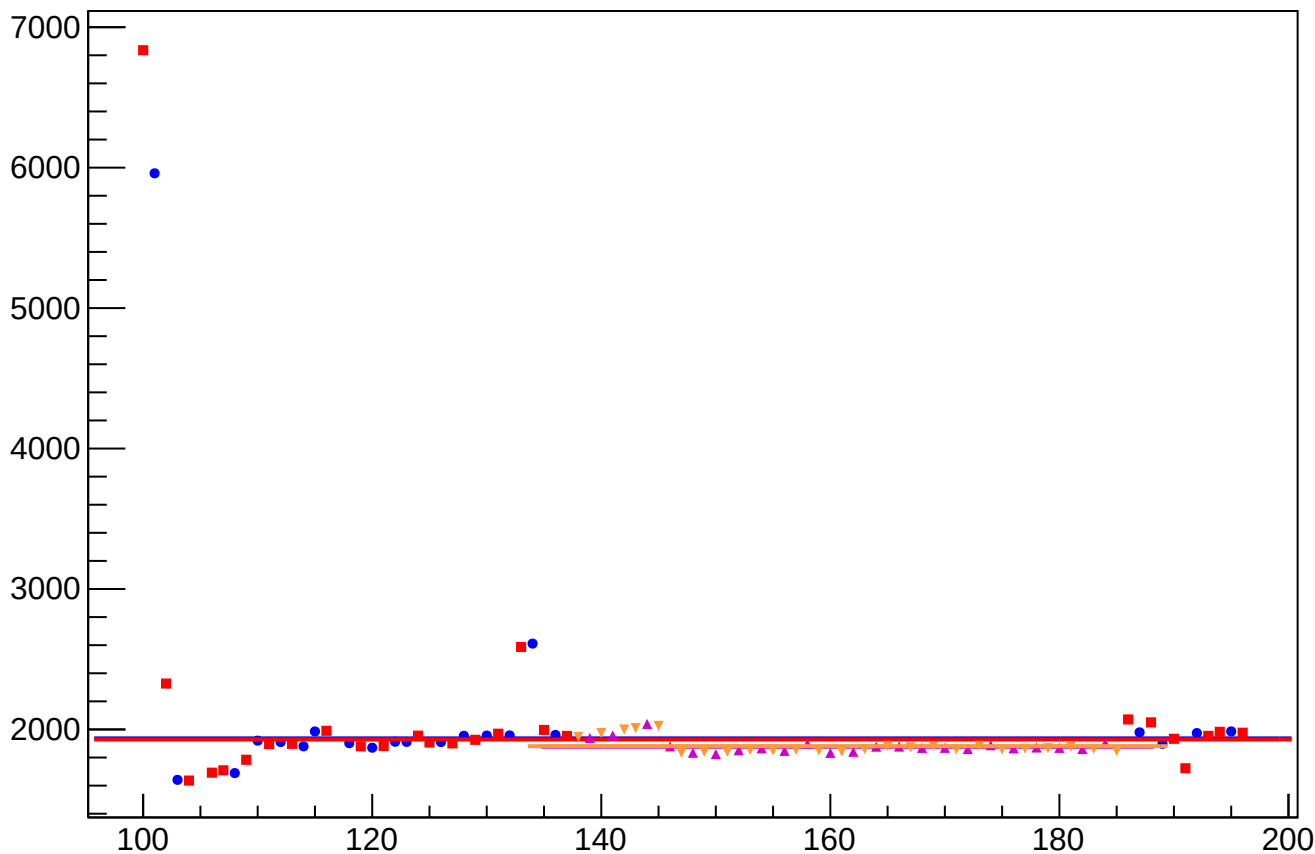
Right: 78.831 ± 437.731 $\chi^2/\text{NDF}: 39.2/46$

In: -520.788 ± 371.399 $\chi^2/\text{NDF}: 39.4/43$

Out: 729.415 ± 350.863 $\chi^2/\text{NDF}: 52.2/50$

All: 139.832 ± 255.048 $\chi^2/\text{NDF}: 97.6/94$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1936.316 $\pm$ 0.466 χ^2 /NDF: 618441.8/20

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1928.719 $\pm$ 0.413 χ^2 /NDF: 231044.2/25

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

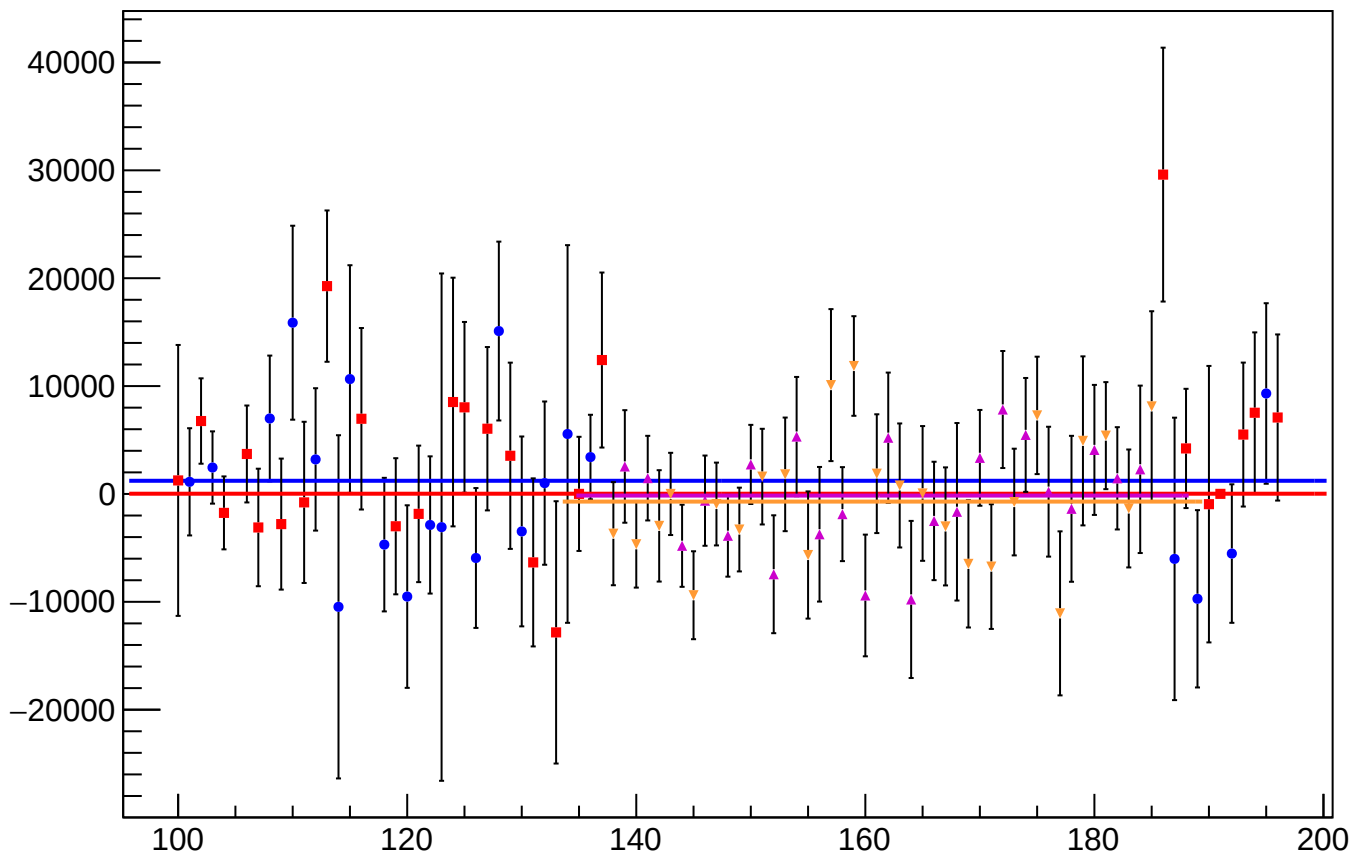
Right: 1932.065 $\pm$ 0.309 χ^2 /NDF: 849634.7/46

In: 1895.620 $\pm$ 0.263 χ^2 /NDF: 650114.6/43

Out: 1898.045 $\pm$ 0.248 χ^2 /NDF: 268298.5/50

All: 1896.902 $\pm$ 0.180 χ^2 /NDF: 918458.2/94

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 1220.629+/-1458.472 χ^2/NDF : 17.0/20

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 21.659+/-85.823 χ^2/NDF : 28.9/25

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

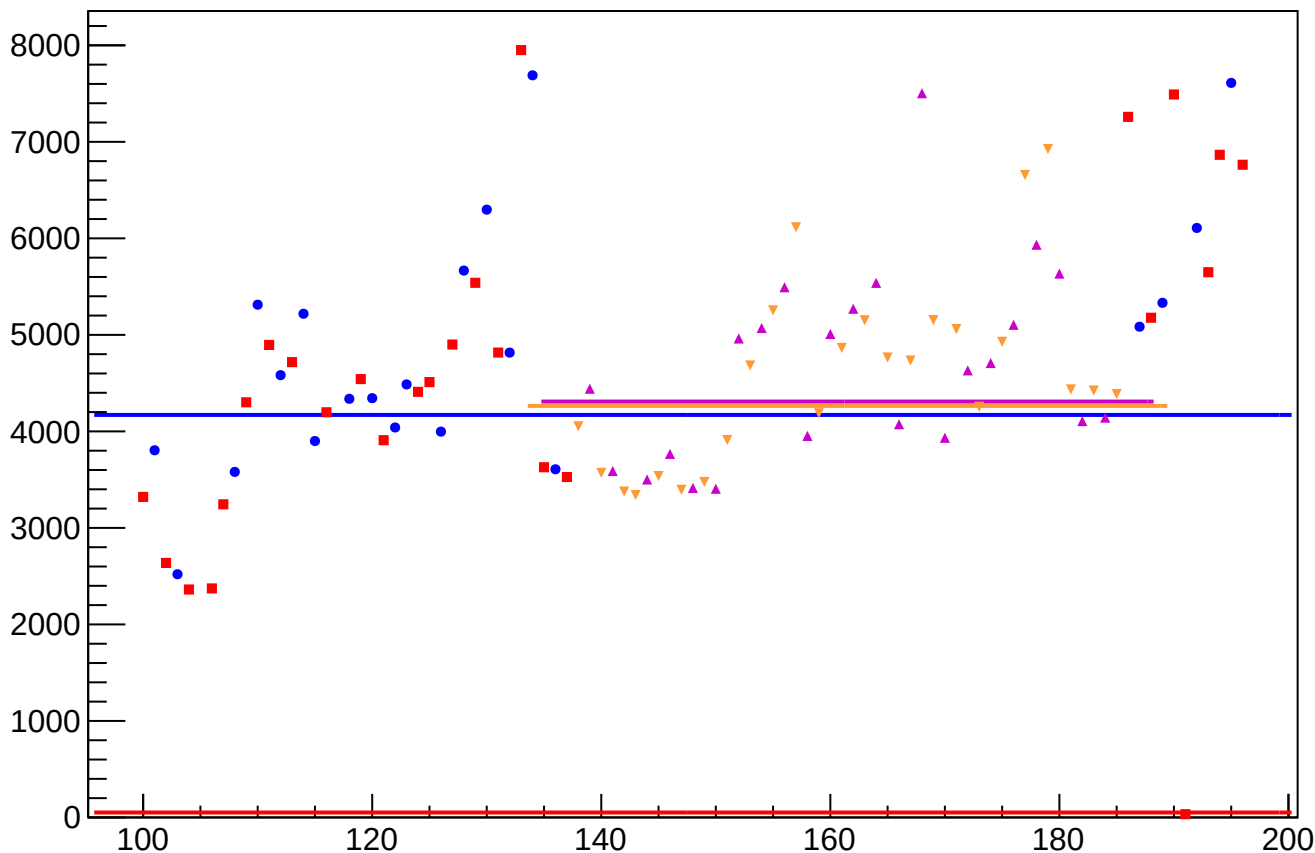
Right: 25.796+/-85.675 χ^2/NDF : 46.5/46

In: 319.709+/-854.089 χ^2/NDF : 34.4/43

Out: 16.508+/-85.519 χ^2/NDF : 56.5/50

All: 19.518+/-85.094 χ^2/NDF : 91.1/94

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4170.659+/-1.031 χ^2/NDF : 1460296.6/20

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 51.305+/-0.061 χ^2/NDF : 21344541.0/25

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

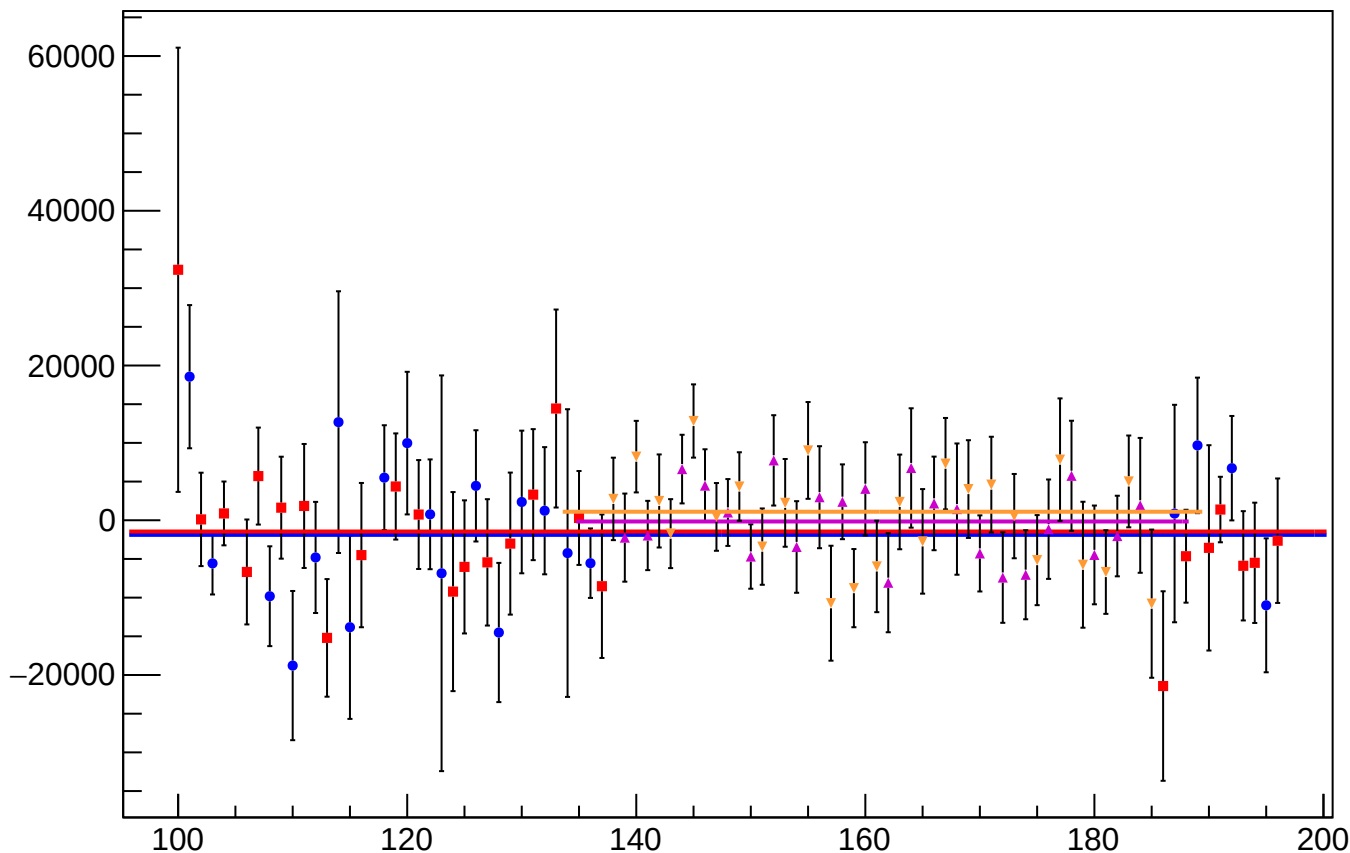
Right: 65.519+/-0.061 χ^2/NDF : 38704615.0/46

In: 4261.580+/-0.604 χ^2/NDF : 2777259.1/43

Out: 81.054+/-0.060 χ^2/NDF : 56732909.0/50

All: 122.552+/-0.060 χ^2/NDF : 106951100.9/95

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1886.841+/-1672.486 χ^2/NDF : 23.5/20

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1454.708+/-1418.857 χ^2/NDF : 15.8/25

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

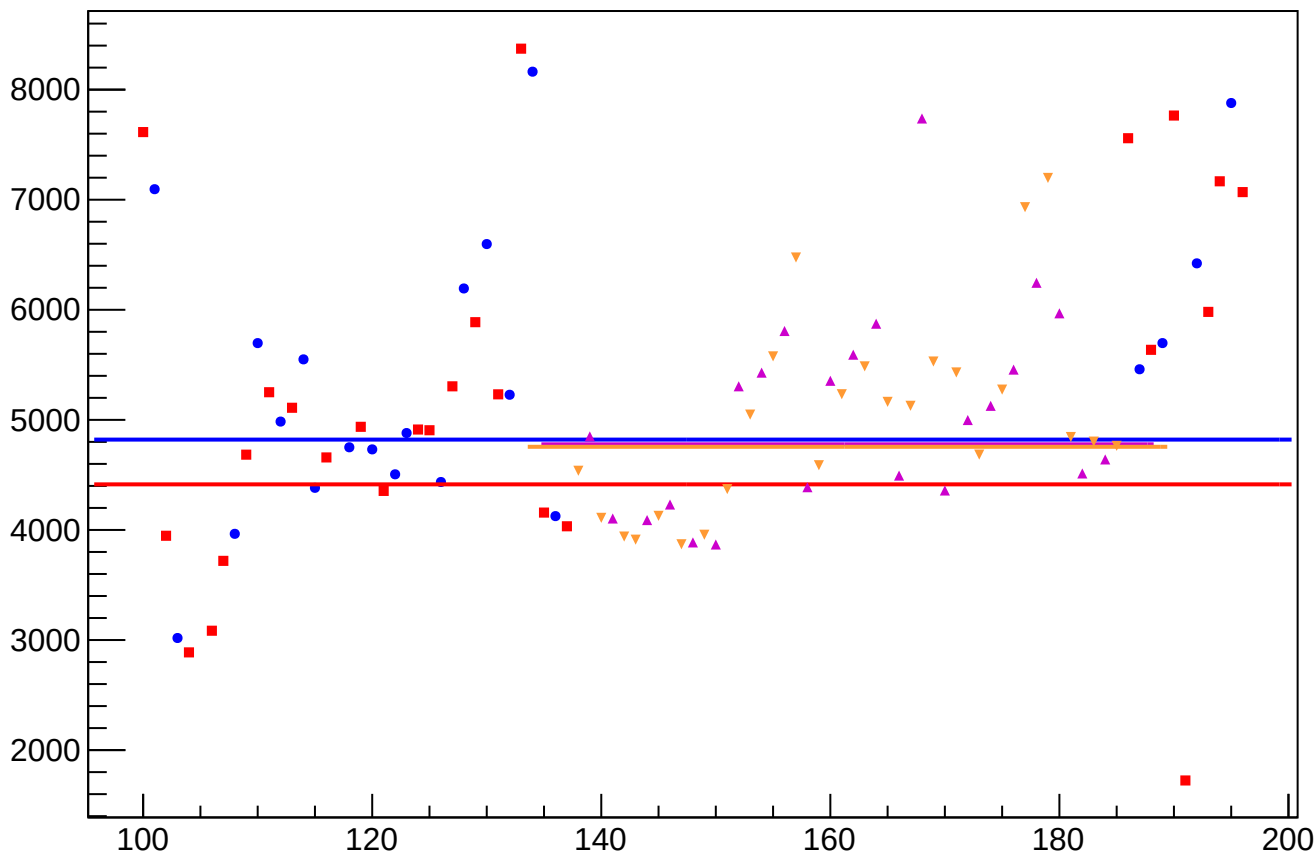
Right: -1635.557+/-1081.962 χ^2/NDF : 39.4/46

In: -720.980+/-954.011 χ^2/NDF : 39.8/43

Out: 113.432+/-882.325 χ^2/NDF : 46.3/50

All: -271.250+/-647.760 χ^2/NDF : 86.6/94

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4820.789 $\pm$ 1.183 χ^2 /NDF: 1216952.6/20

Left Out: 4755.383 $\pm$ 0.797 χ^2 /NDF: 953328.0/24

Right Out: 4414.144 $\pm$ 0.999 χ^2 /NDF: 2500020.8/25

Left In: 4777.831 $\pm$ 0.821 χ^2 /NDF: 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2 /NDF: 1904004.1/47

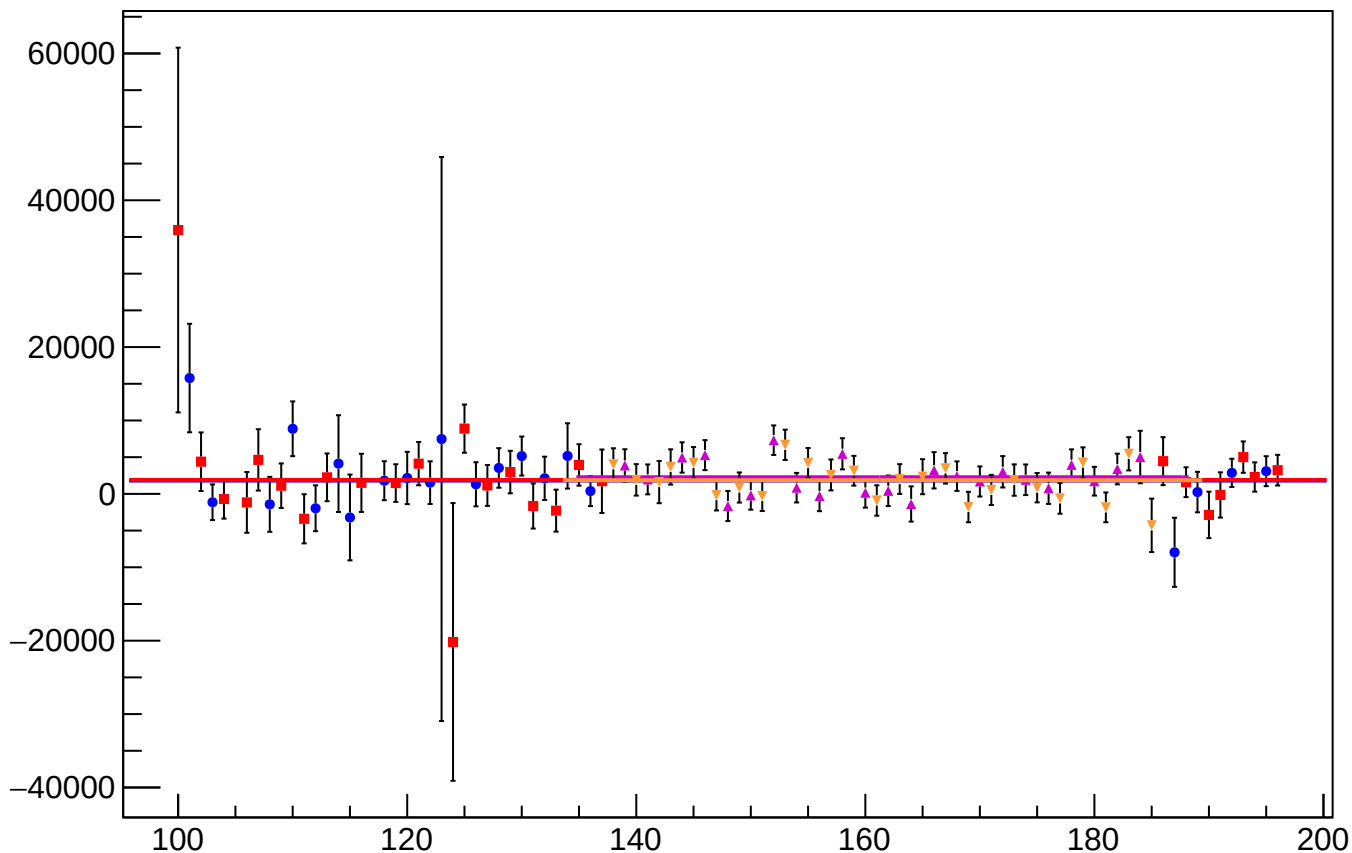
Right: 4583.550 $\pm$ 0.763 χ^2 /NDF: 3785950.9/46

In: 4791.808 $\pm$ 0.675 χ^2 /NDF: 2168133.9/43

Out: 4622.788 $\pm$ 0.623 χ^2 /NDF: 3524638.8/50

All: 4700.582 $\pm$ 0.458 χ^2 /NDF: 5726655.7/94

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1815.796 $\pm$ 658.296 χ^2 /NDF: 20.1/20

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1901.046 $\pm$ 583.535 χ^2 /NDF: 23.4/25

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

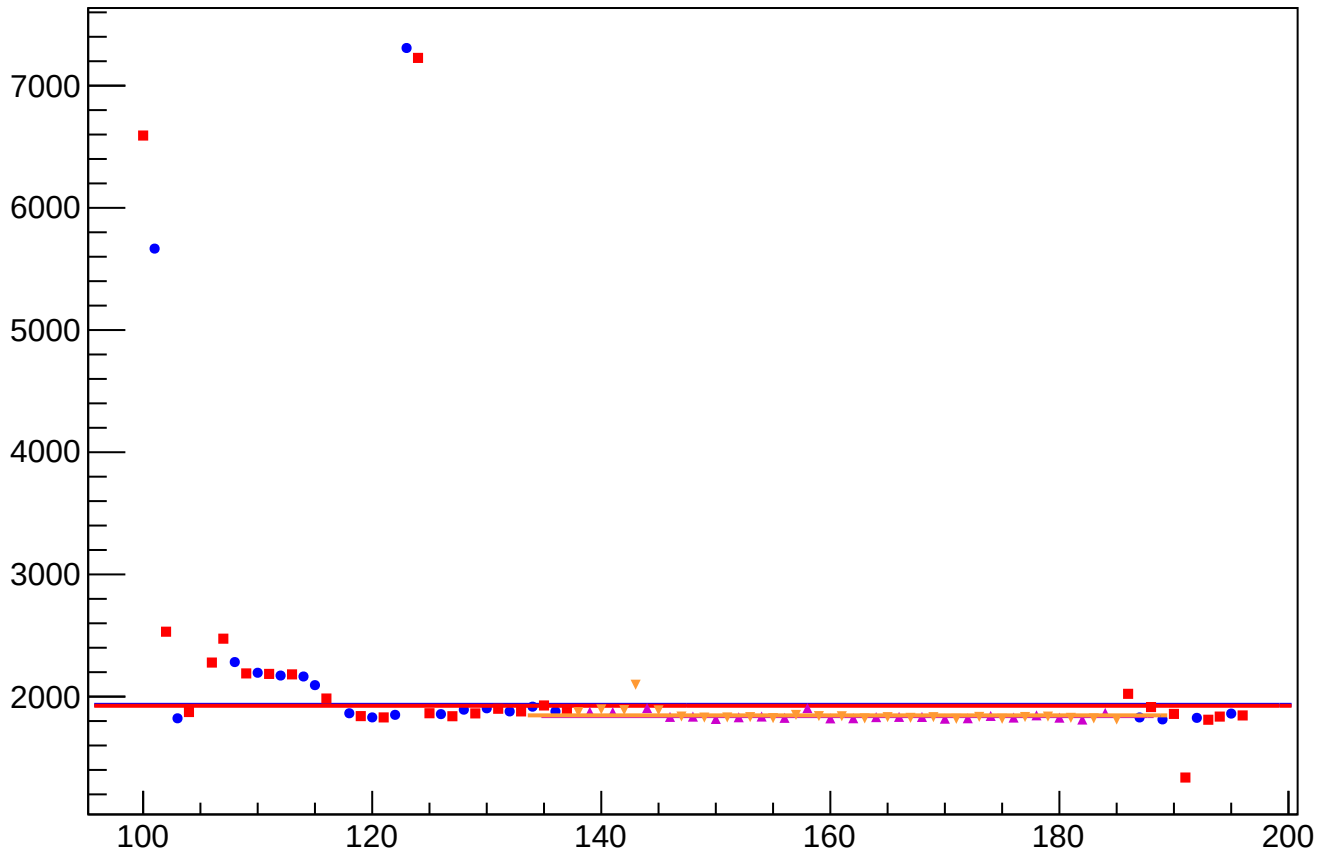
Right: 1863.535 $\pm$ 436.672 χ^2 /NDF: 43.5/46

In: 2127.932 $\pm$ 366.792 χ^2 /NDF:47.3/43

Out: 1872.268 $\pm$ 346.675 χ^2 /NDF:53.4/50

All: 1992.897 $\pm$ 251.948 χ^2 /NDF: 101.0/94

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1932.758 $\pm$ 0.465 χ^2 /NDF: 618671.5/20

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1925.025 $\pm$ 0.413 χ^2 /NDF: 460506.2/25

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

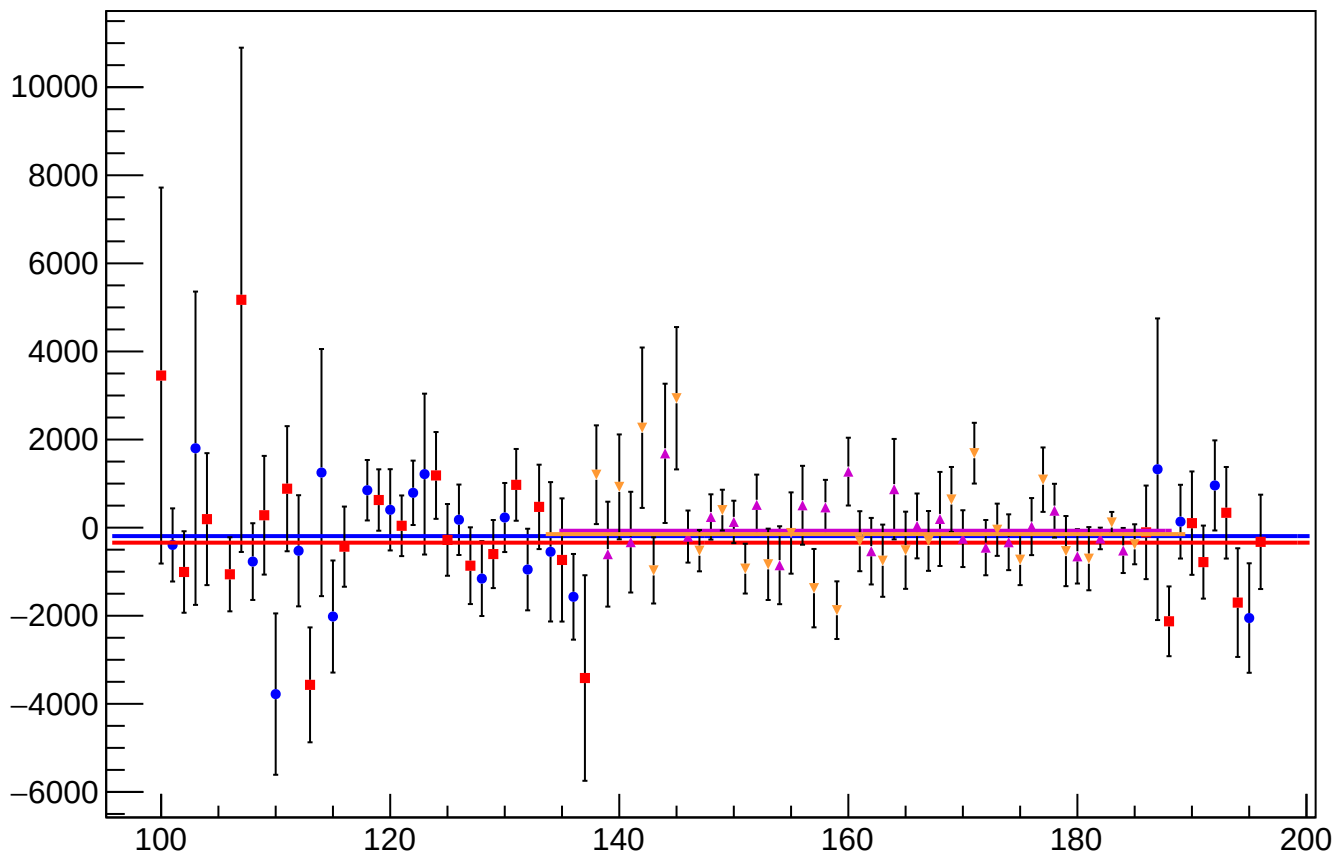
Right: 1928.428 $\pm$ 0.309 χ^2 /NDF: 1079332.2/46

In: 1869.171 $\pm$ 0.259 χ^2 /NDF: 652474.4/43

Out: 1874.281 $\pm$ 0.245 χ^2 /NDF: 511182.2/50

All: 1871.870 $\pm$ 0.178 χ^2 /NDF: 1163861.6/94

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -192.084 ± 221.937 χ^2/NDF : 20.5/20

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -341.006 ± 195.900 χ^2/NDF : 27.6/25

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

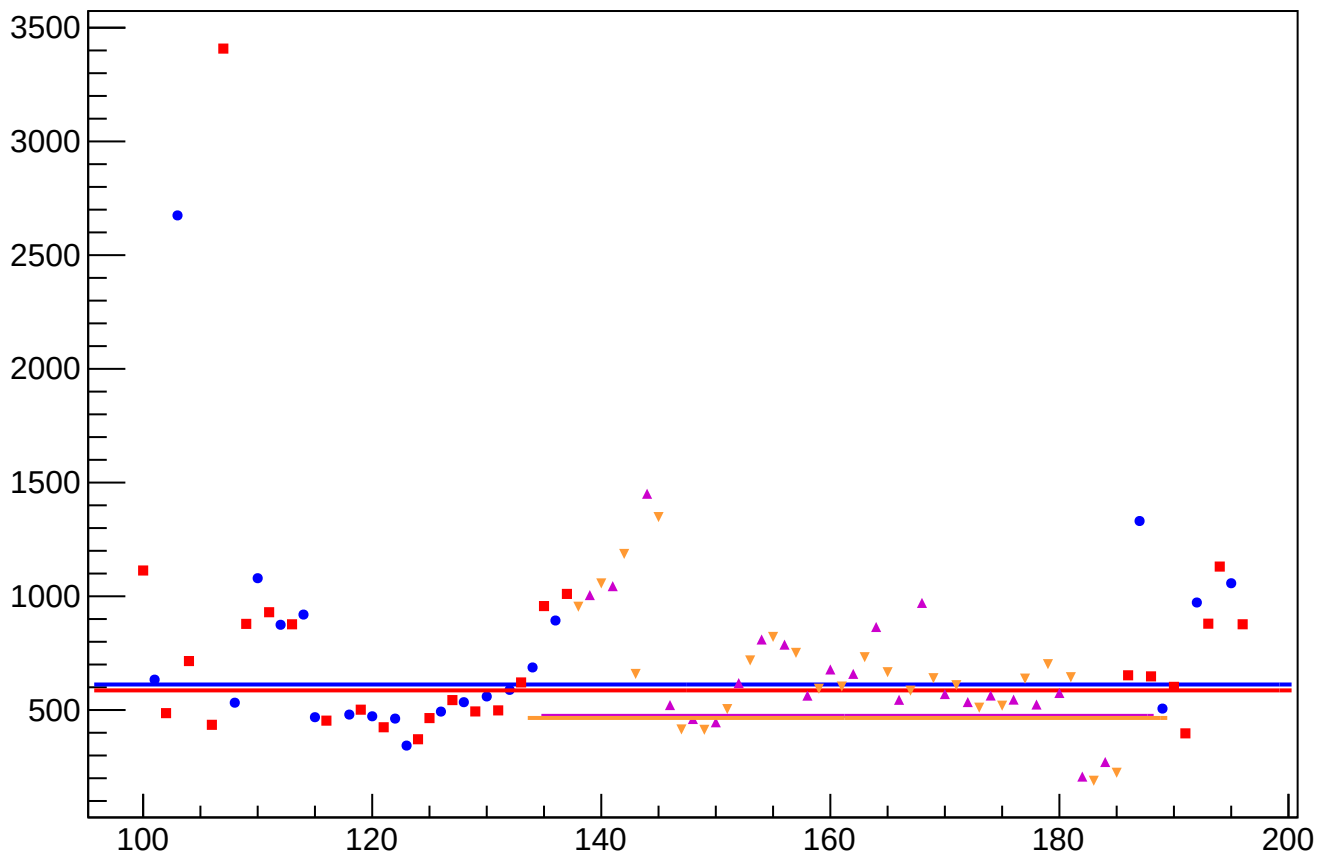
Right: -275.789 ± 146.869 χ^2/NDF : 48.4/46

In: -100.148 ± 109.818 χ^2/NDF : 33.1/43

Out: -201.205 ± 103.550 χ^2/NDF : 66.0/50

All: -153.643 ± 75.339 χ^2/NDF : 99.5/94

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 612.173+/-0.157 χ^2/NDF : 2073324.1/20

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 586.251+/-0.139 χ^2/NDF : 2339191.9/25

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

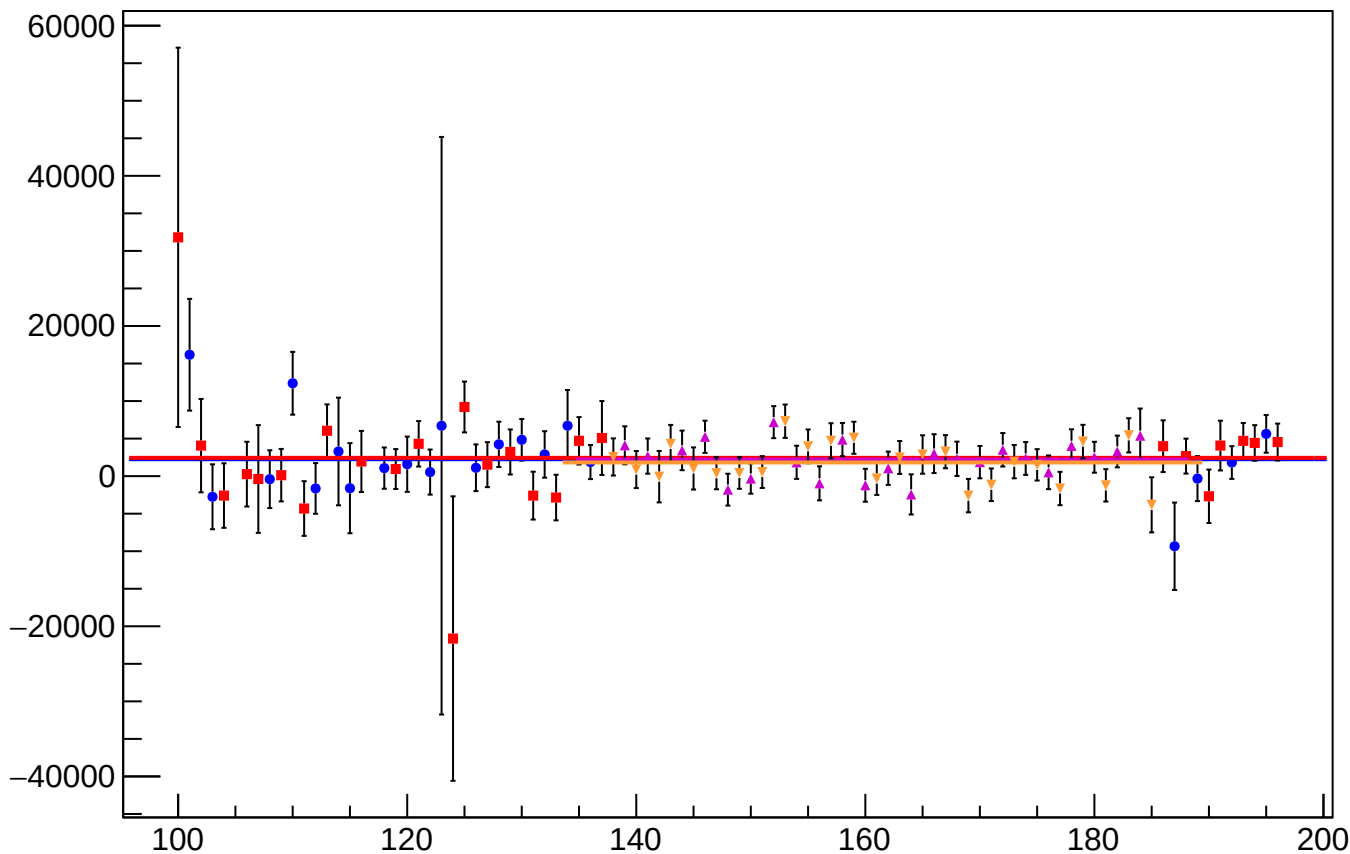
Right: 597.603+/-0.104 χ^2/NDF : 4427852.5/46

In: 508.029+/-0.078 χ^2/NDF : 8829608.1/43

Out: 498.936+/-0.073 χ^2/NDF : 9976704.4/50

All: 503.216+/-0.053 χ^2/NDF : 18813571.6/94

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2255.337+/-736.262 χ^2/NDF : 22.4/20

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2436.283+/-655.953 χ^2/NDF : 25.8/25

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

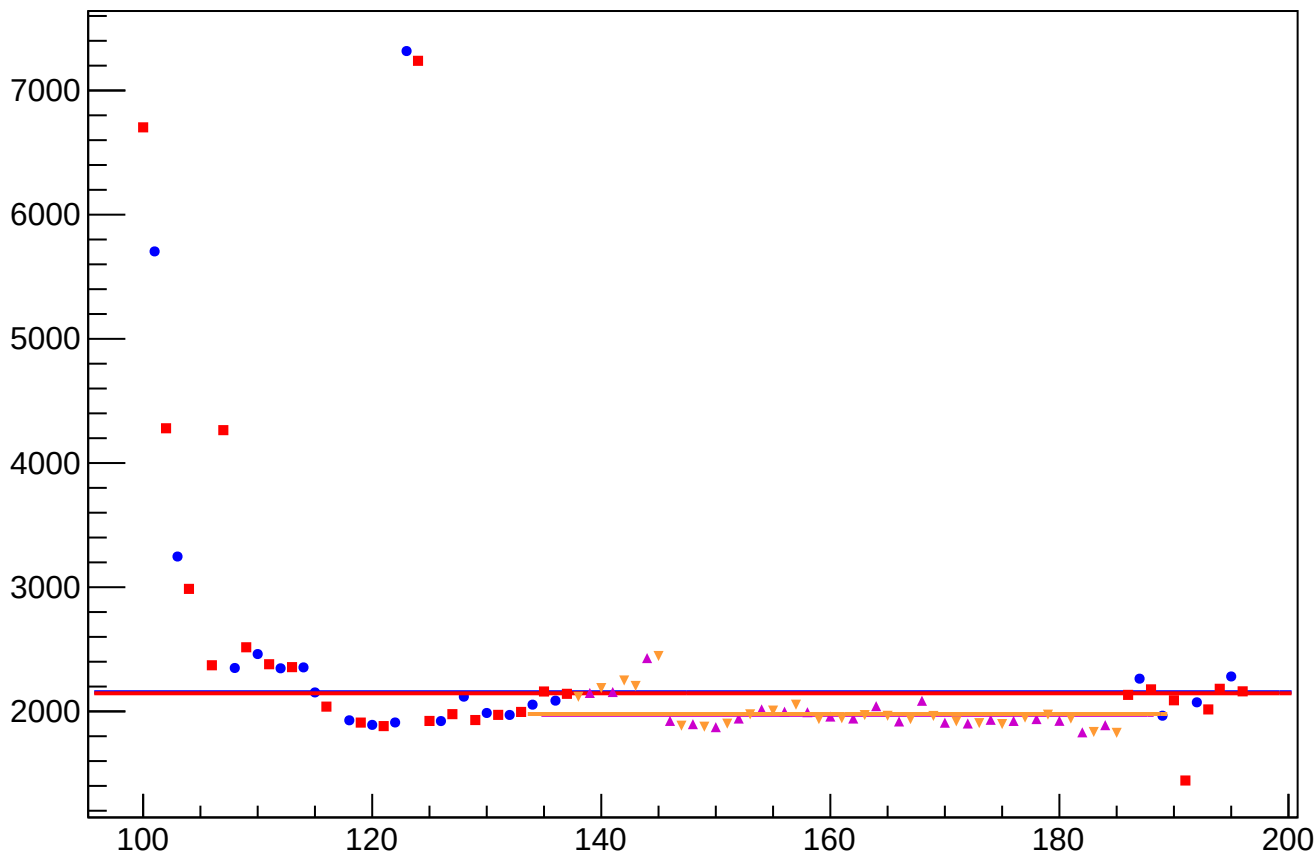
Right: 2356.213+/-489.770 χ^2/NDF : 48.3/46

In: 2221.953+/-398.579 χ^2/NDF : 47.8/43

Out: 2027.472+/-378.096 χ^2/NDF : 58.5/50

All: 2119.587+/-274.310 χ^2/NDF : 106.4/94

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2154.474 $\pm$ 0.521 χ^2 /NDF: 724726.6/20

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF: 139299.8/24

Right Out: 2145.793 $\pm$ 0.464 χ^2 /NDF: 905229.6/25

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

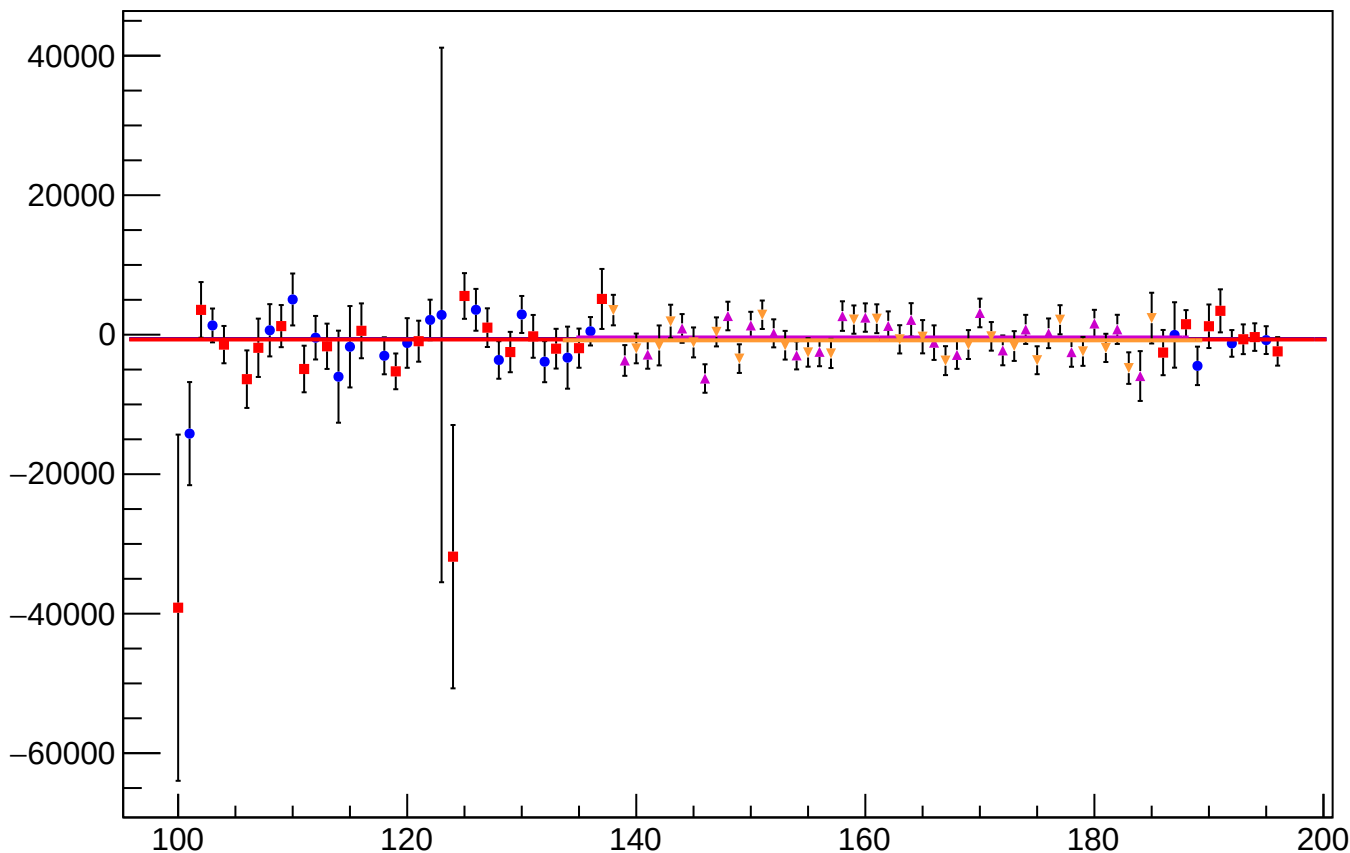
Right: 2149.634 $\pm$ 0.346 χ^2 /NDF: 1630111.2/46

In: 2025.594 $\pm$ 0.282 χ^2 /NDF: 927865.9/43

Out: 2034.415 $\pm$ 0.267 χ^2 /NDF: 1130881.6/50

All: 2030.237 $\pm$ 0.194 χ^2 /NDF: 2059263.1/94

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -620.763+/-655.462 χ^2/NDF : 17.8/20

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -686.819+/-580.778 χ^2/NDF : 24.7/25

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

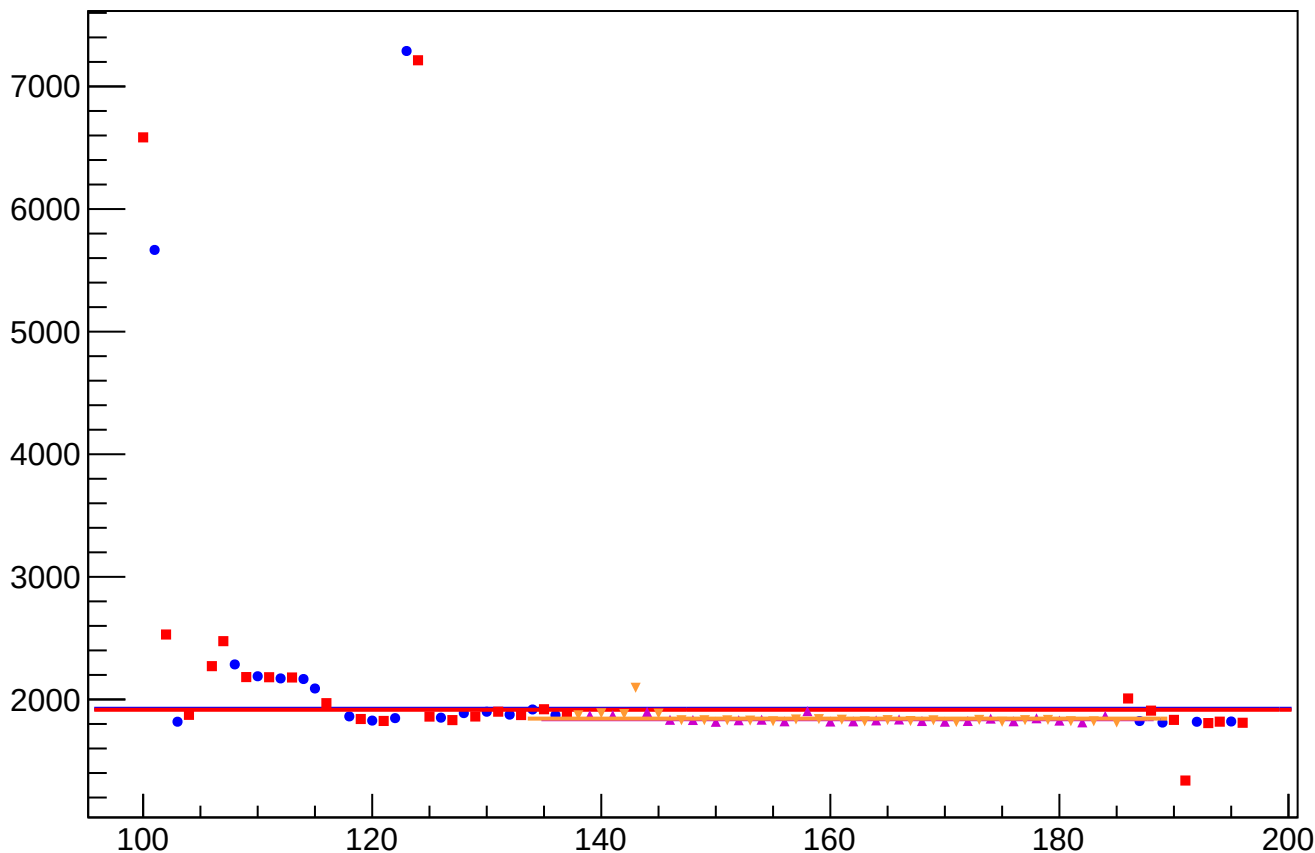
Right: -657.767+/-434.689 χ^2/NDF : 42.5/46

In: -468.018+/-366.034 χ^2/NDF : 52.3/43

Out: -765.335+/-345.746 χ^2/NDF : 52.7/50

All: -625.144+/-251.346 χ^2/NDF : 105.3/94

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1924.096 $\pm$ 0.463 χ^2 /NDF: 624677.5/20

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1915.793 $\pm$ 0.411 χ^2 /NDF: 464471.5/25

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

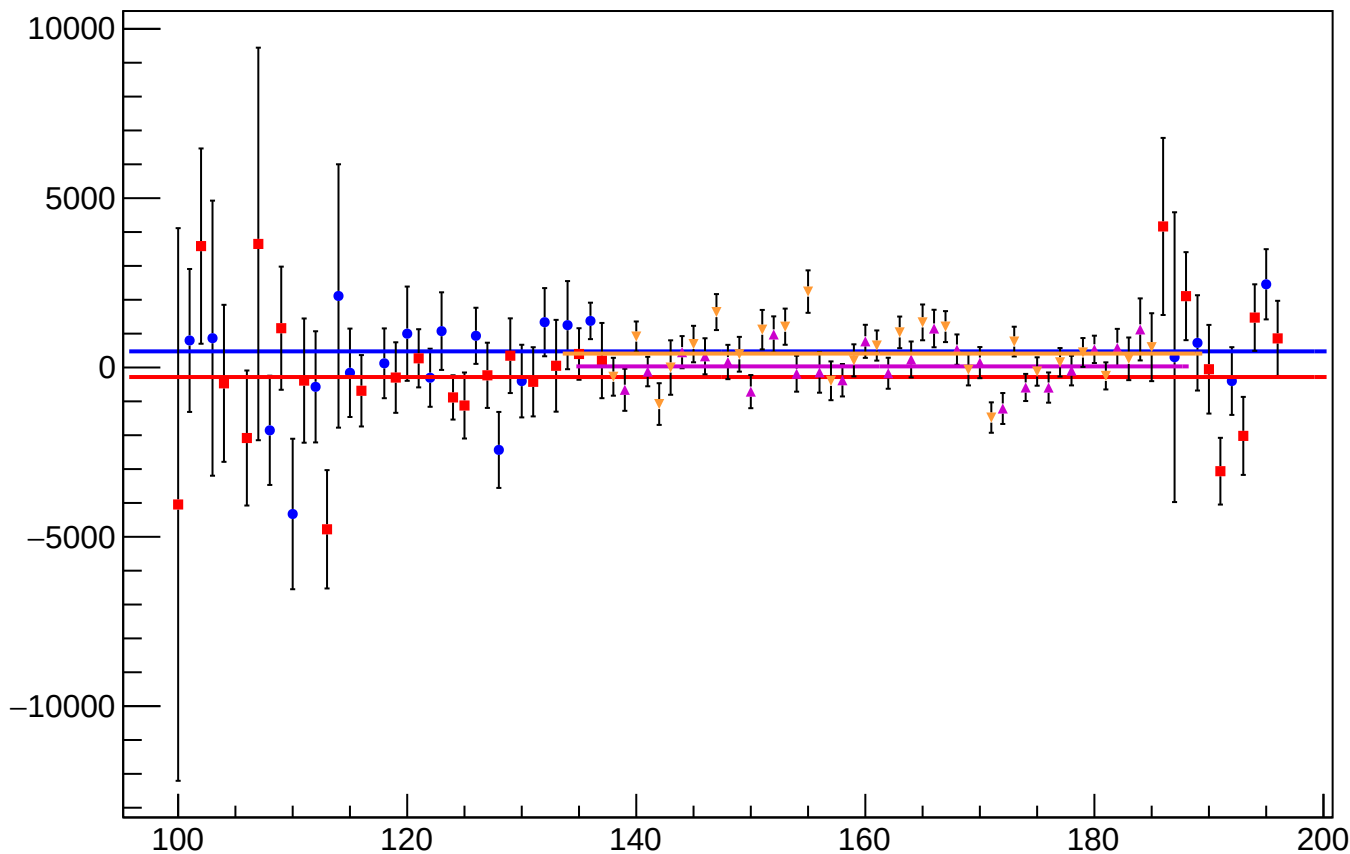
Right: 1919.445 $\pm$ 0.307 χ^2 /NDF: 1089328.8/46

In: 1865.270 $\pm$ 0.259 χ^2 /NDF: 654422.4/43

Out: 1869.280 $\pm$ 0.244 χ^2 /NDF: 511209.1/50

All: 1867.389 $\pm$ 0.178 χ^2 /NDF: 1165758.4/94

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 476.263+/-249.114 χ^2/NDF : 25.0/20

Left Out: 411.072+/-100.456 χ^2/NDF : 61.2/24

Right Out: -281.594+/-229.475 χ^2/NDF : 34.9/25

Left In: 32.456+/-102.403 χ^2/NDF : 32.7/22

Left: 225.398+/-71.712 χ^2/NDF : 100.9/47

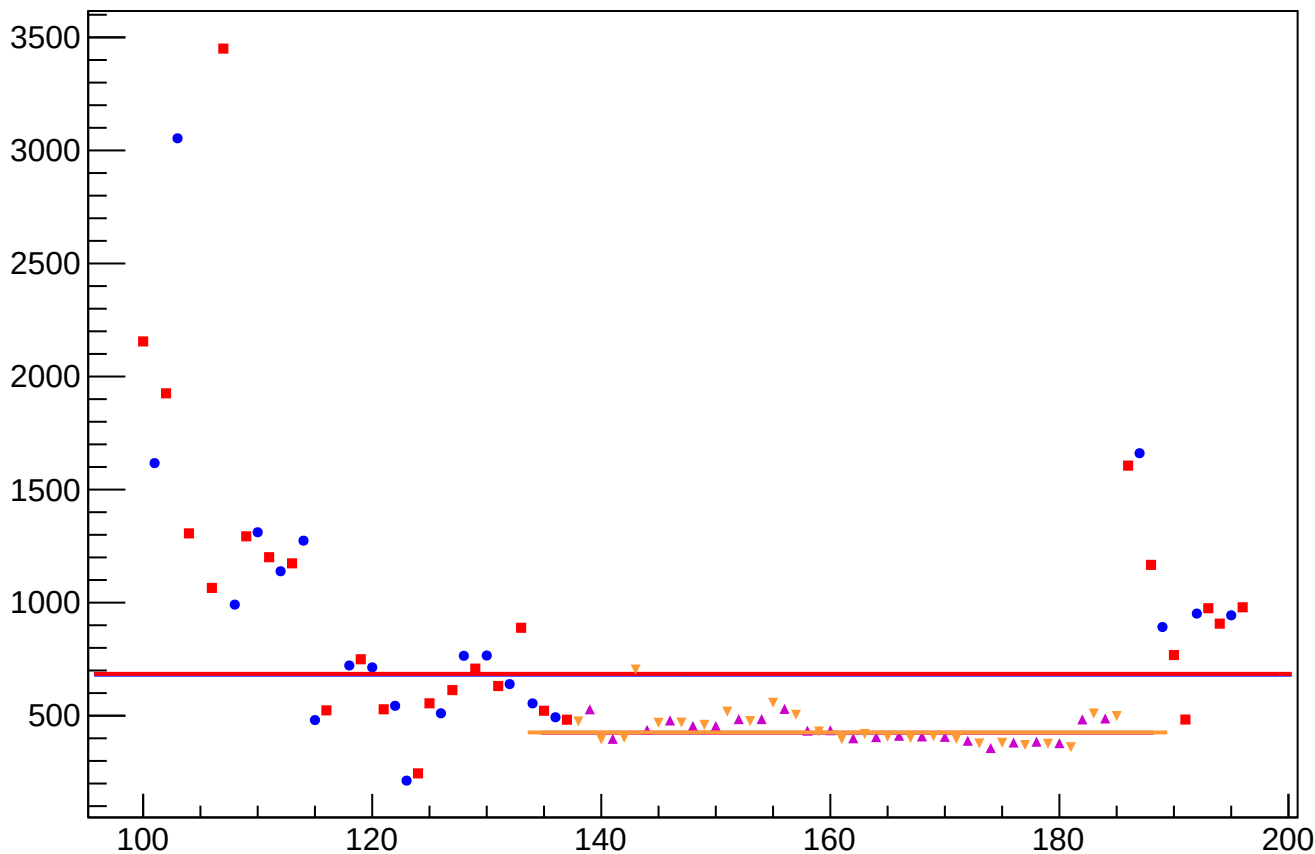
Right: 66.288+/-168.780 χ^2/NDF : 64.9/46

In: 96.610+/-94.713 χ^2/NDF : 60.5/43

Out: 299.678+/-92.025 χ^2/NDF : 103.7/50

All: 201.067+/-66.001 χ^2/NDF : 166.5/94

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 681.583 $\pm$ 0.176 χ^2 /NDF: 2748904.7/20

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 685.068 $\pm$ 0.162 χ^2 /NDF: 3915752.2/25

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

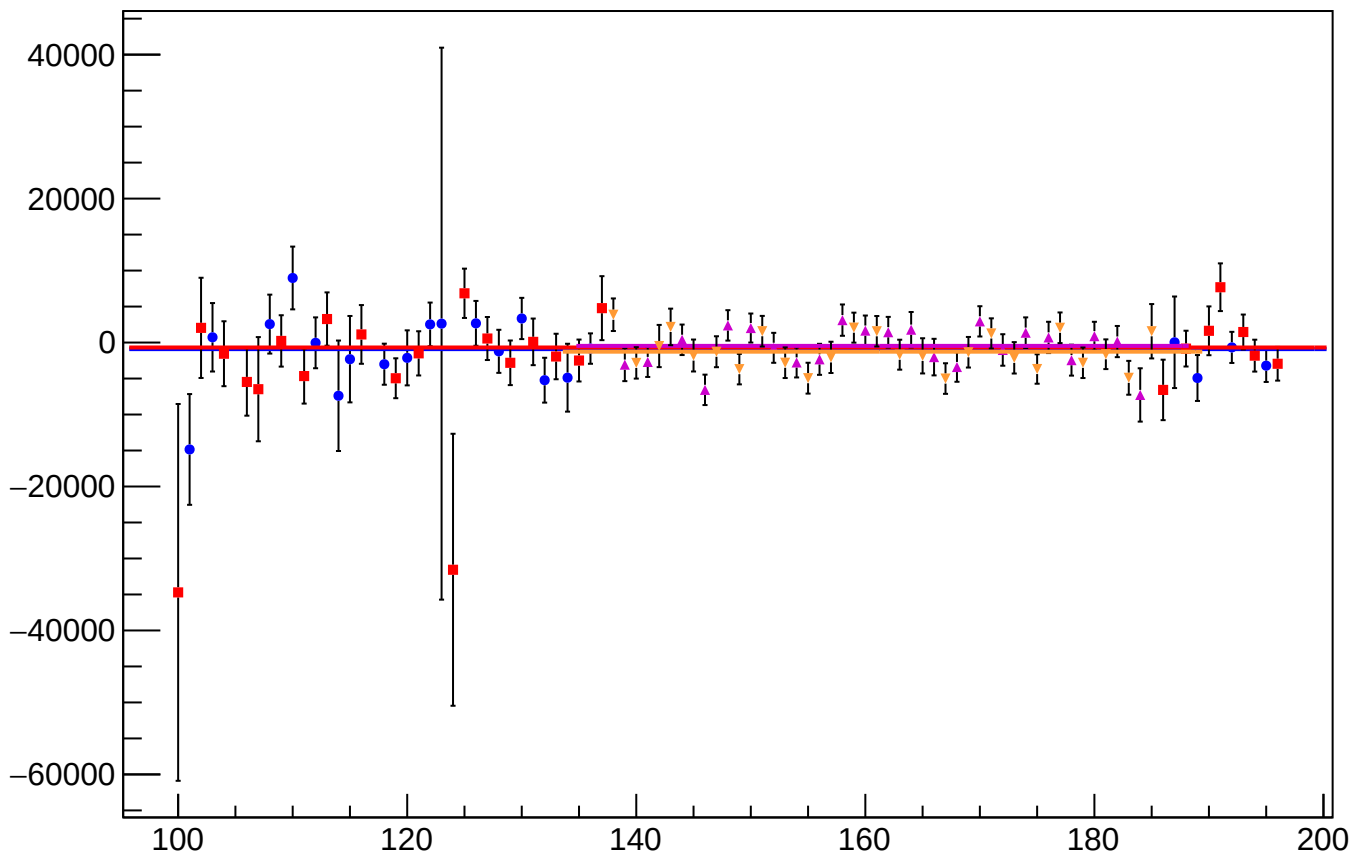
Right: 683.468 $\pm$ 0.119 χ^2 /NDF: 6664868.6/46

In: 461.781 $\pm$ 0.067 χ^2 /NDF: 4960669.6/43

Out: 467.686 $\pm$ 0.065 χ^2 /NDF: 6787526.7/50

All: 464.818 $\pm$ 0.047 χ^2 /NDF: 11752195.8/94

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -913.252 ± 737.060 χ^2/NDF : 20.8/20

Left Out: -1267.885 ± 443.219 χ^2/NDF : 30.8/24

Right Out: -685.916 ± 663.233 χ^2/NDF : 29.6/25

Left In: -462.599 ± 453.947 χ^2/NDF : 32.6/22

Left: -874.870 ± 317.128 χ^2/NDF : 65.0/47

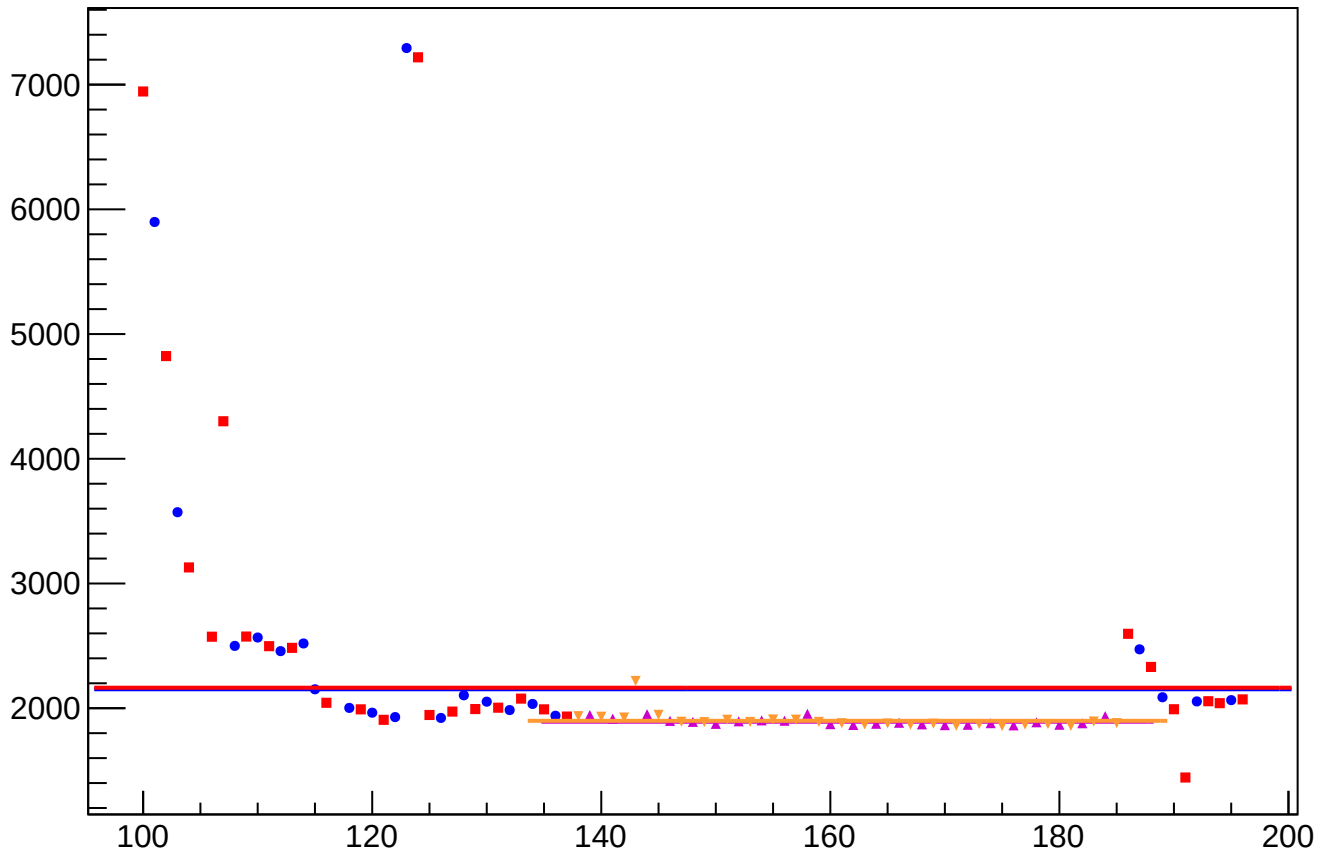
Right: -787.631 ± 493.017 χ^2/NDF : 50.5/46

In: -586.531 ± 386.520 χ^2/NDF : 53.7/43

Out: -1088.221 ± 368.507 χ^2/NDF : 60.9/50

All: -849.338 ± 266.715 χ^2/NDF : 115.5/94

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2151.853 $\pm$ 0.521 χ^2 /NDF: 815724.2/20

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF: 38680.4/24

Right Out: 2164.462 $\pm$ 0.469 χ^2 /NDF: 1047491.0/25

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF: 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

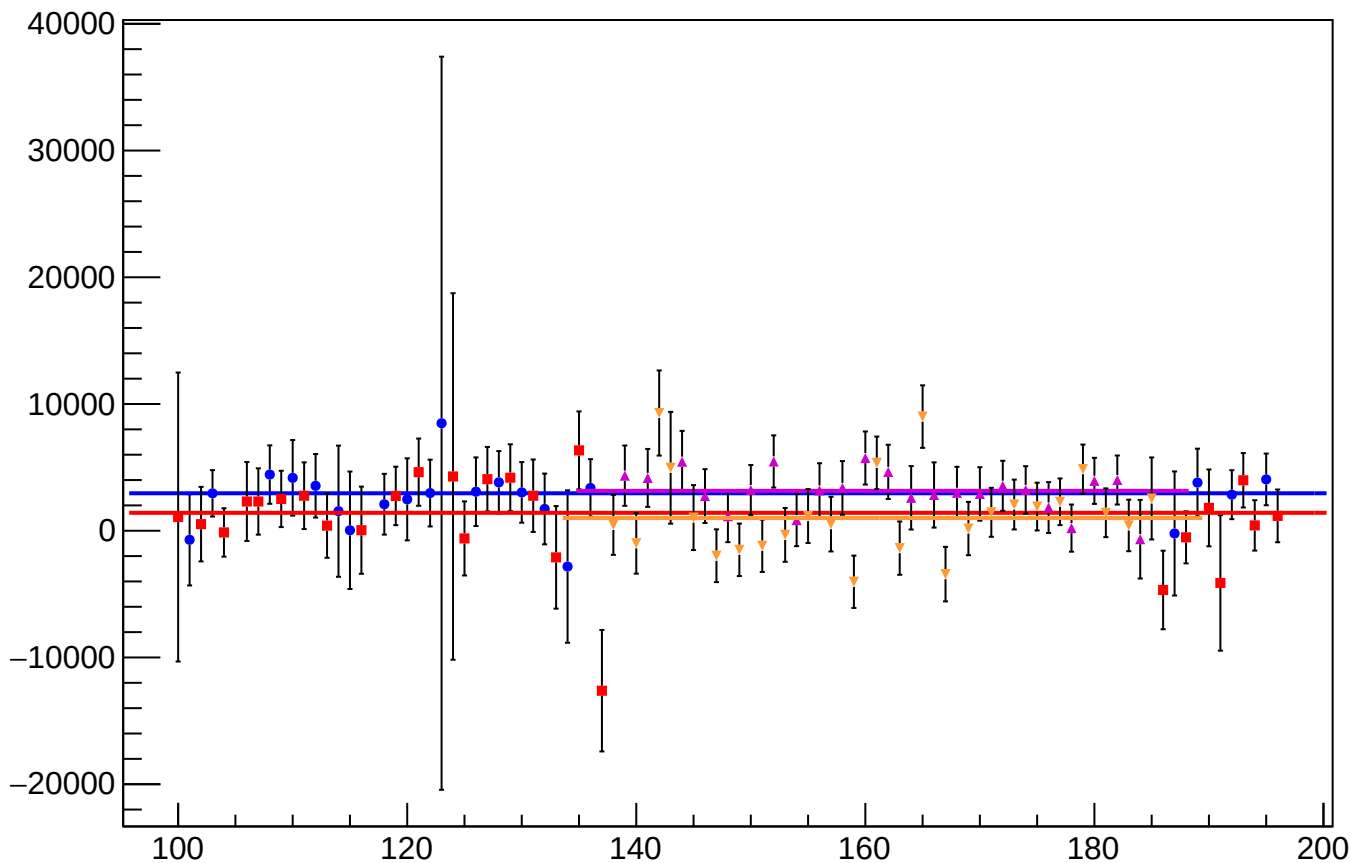
Right: 2158.820 $\pm$ 0.349 χ^2 /NDF: 1863538.6/46

In: 1963.238 $\pm$ 0.273 χ^2 /NDF: 1003796.4/43

Out: 1980.926 $\pm$ 0.261 χ^2 /NDF: 1307727.9/50

All: 1972.504 $\pm$ 0.189 χ^2 /NDF: 2313718.4/94

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2956.693 $\pm$ 592.479 χ^2 /NDF: 4.4/20

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1414.044 $\pm$ 534.323 χ^2 /NDF: 25.9/25

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

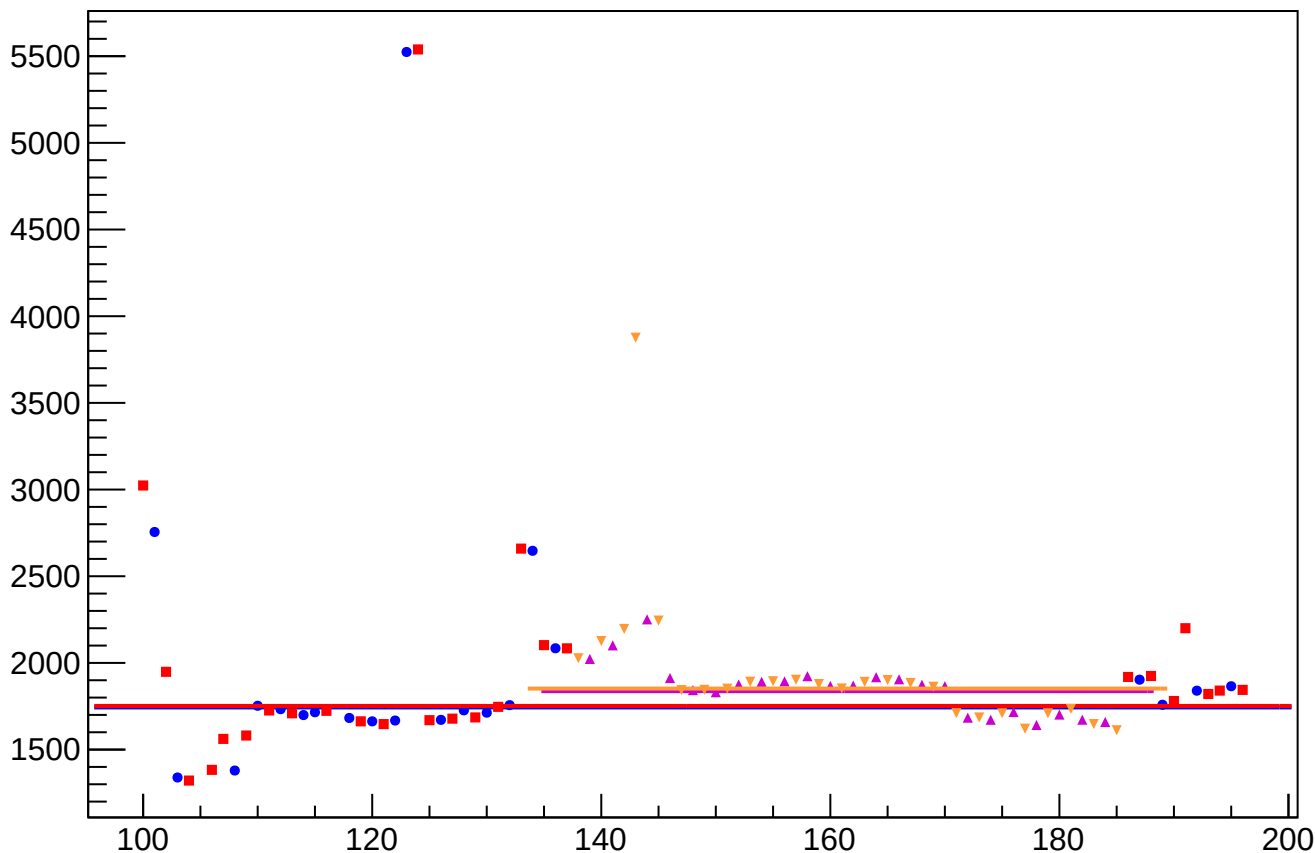
Right: 2105.961 $\pm$ 396.795 χ^2 /NDF: 34.1/46

In: 3081.336 $\pm$ 353.835 χ^2 /NDF:16.3/43

Out: 1165.909 $\pm$ 337.458 χ^2 /NDF:70.9/50

All: 2078.270 $\pm$ 244.203 χ^2 /NDF: 102.6/94

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1743.233+/-0.419 χ^2/NDF : 450494.4/20

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1751.788+/-0.378 χ^2/NDF : 514880.4/25

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

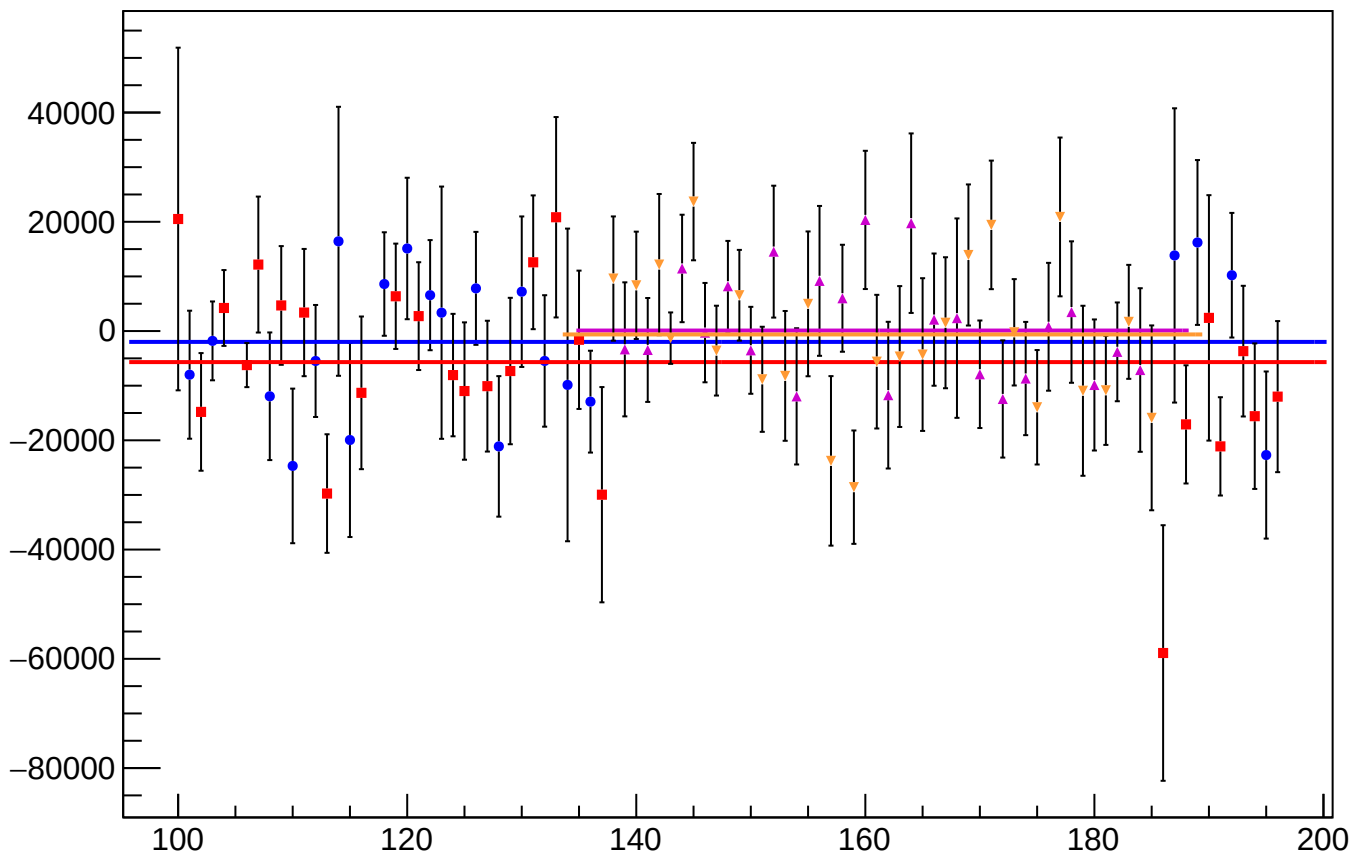
Right: 1747.951+/-0.281 χ^2/NDF : 965604.7/46

In: 1803.654+/-0.250 χ^2/NDF : 683339.2/43

Out: 1812.003+/-0.239 χ^2/NDF : 1206089.5/50

All: 1808.026+/-0.173 χ^2/NDF : 1890011.9/94

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1985.920 ± 2672.618 $\chi^2/\text{NDF}: 18.9/20$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -5683.307 ± 2055.554 $\chi^2/\text{NDF}: 30.9/25$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

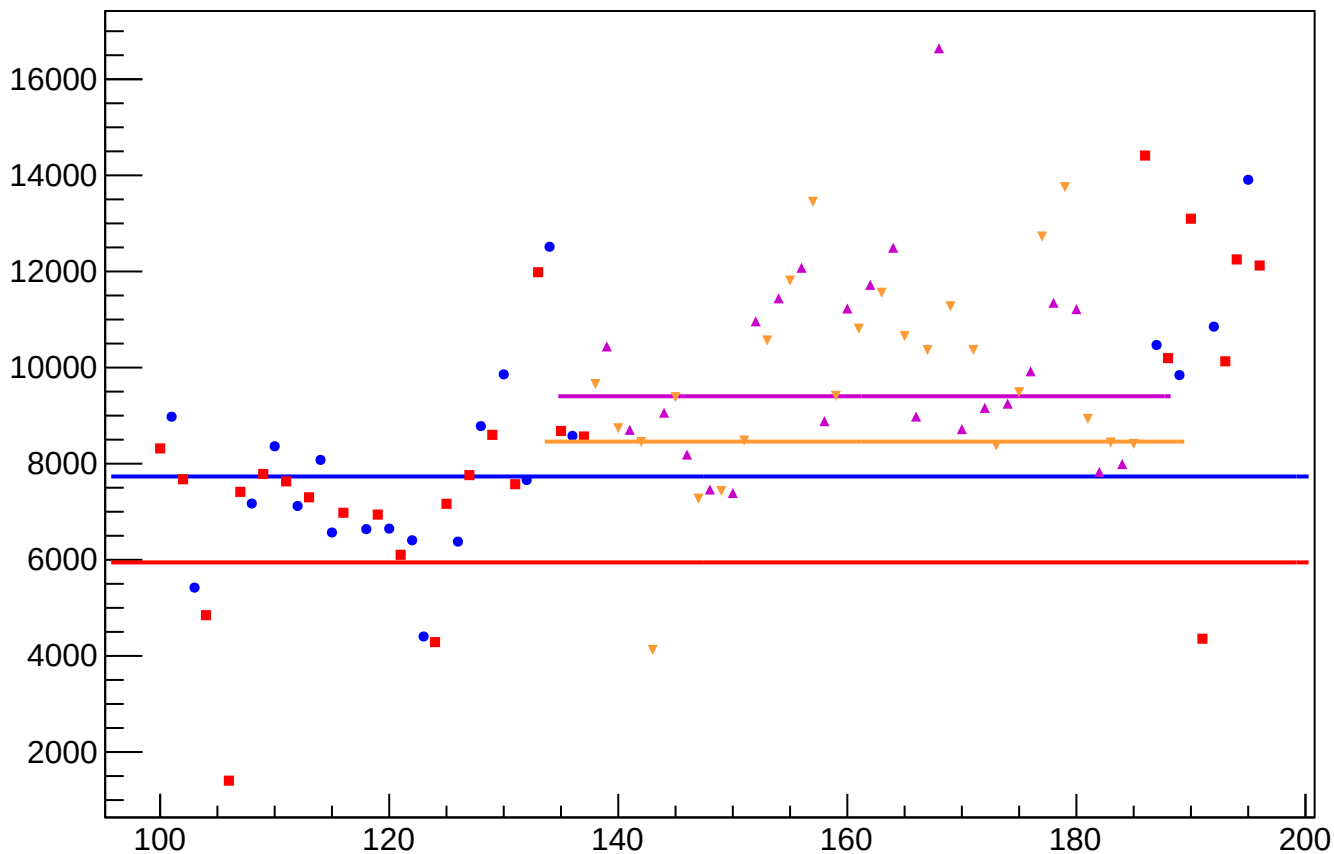
Right: -4309.071 ± 1629.372 $\chi^2/\text{NDF}: 51.0/46$

In: -788.625 ± 1740.633 $\chi^2/\text{NDF}: 33.9/43$

Out: -3168.688 ± 1458.467 $\chi^2/\text{NDF}: 64.0/50$

All: -2186.962 ± 1117.914 $\chi^2/\text{NDF}: 99.0/94$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7734.059+/-1.890 χ^2/NDF : 1072512.8/20

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 5946.076+/-1.453 χ^2/NDF : 5336408.6/25

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

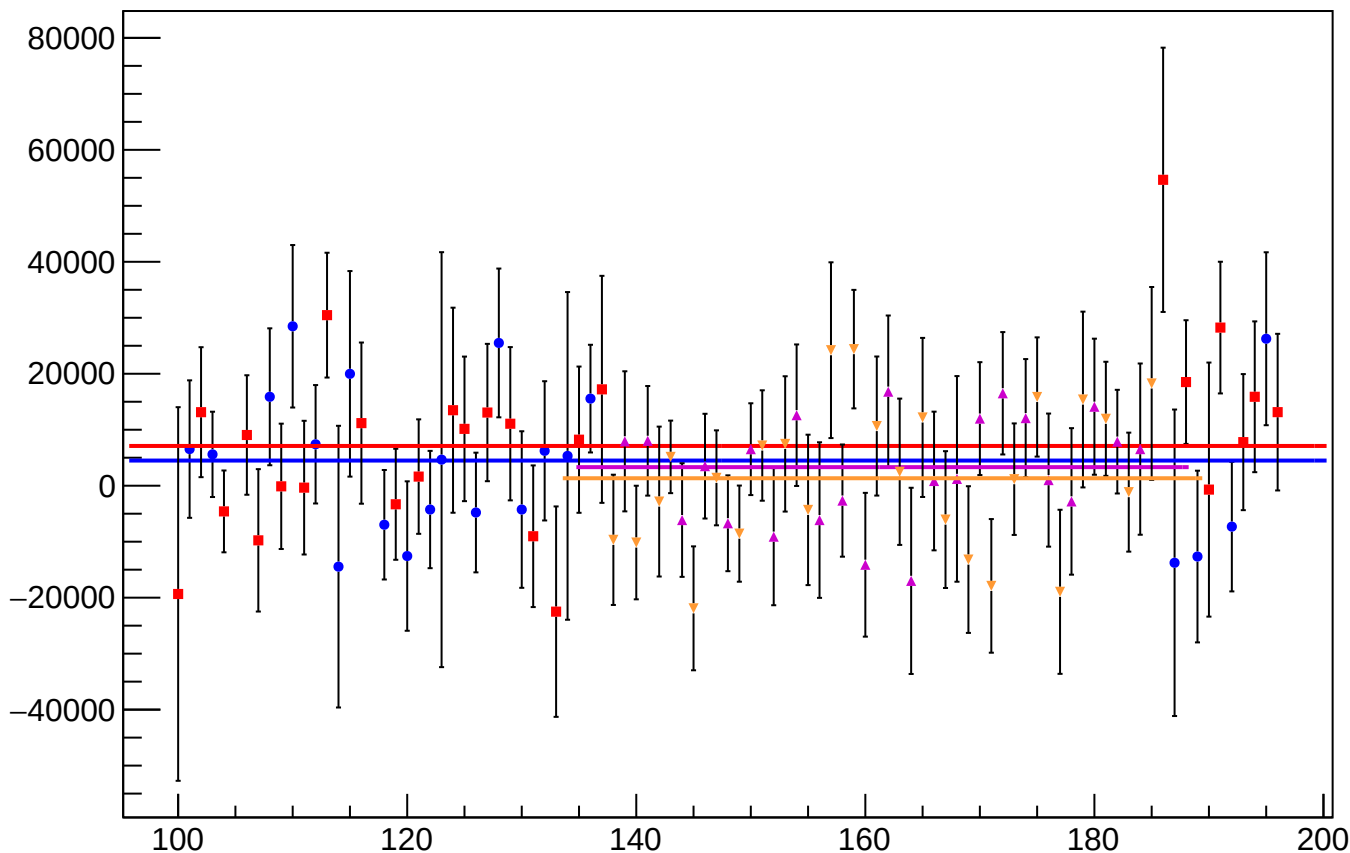
Right: 6610.629+/-1.152 χ^2/NDF : 6971347.7/46

In: 8695.361+/-1.231 χ^2/NDF : 2664507.0/43

Out: 7194.406+/-1.031 χ^2/NDF : 9909021.8/50

All: 7813.518+/-0.790 χ^2/NDF : 13447252.9/95

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4493.333 $\pm$ 2774.747 χ^2 /NDF: 18.4/20

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24

Right Out: 7101.821 $\pm$ 2465.811 χ^2 /NDF: 25.9/25

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

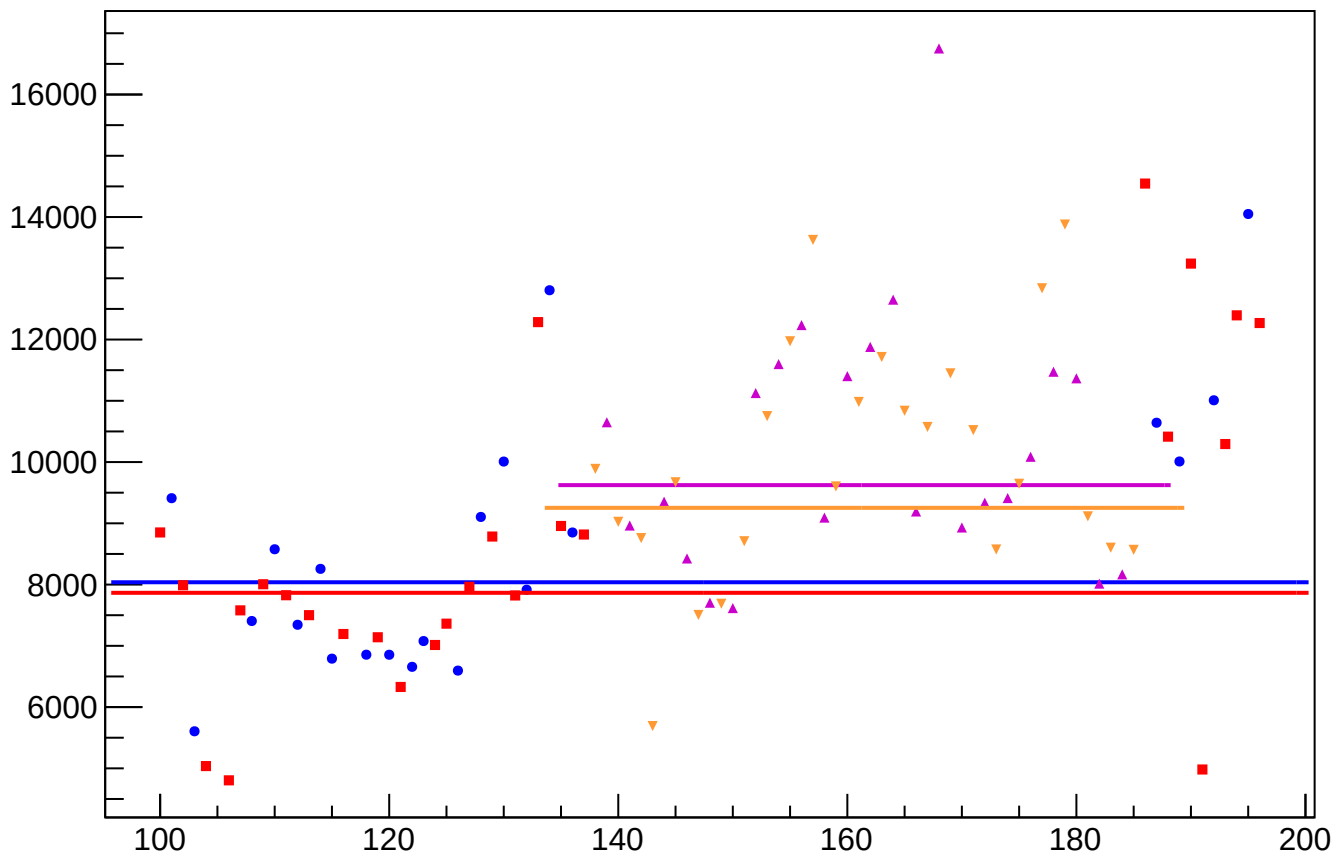
Right: 5950.818 $\pm$ 1843.178 χ^2 /NDF: 44.8/46

In: 3806.952 $\pm$ 1790.848 χ^2 /NDF:32.3/43

Out: 3907.460 $\pm$ 1647.279 χ^2 /NDF:56.9/50

All: 3861.396 $\pm$ 1212.386 χ^2 /NDF: 89.2/94

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8037.863 $\pm$ 1.962 χ^2/NDF : 978309.7/20

Left Out: 9252.712 $\pm$ 1.565 χ^2/NDF : 1597668.9/24

Right Out: 7865.603 $\pm$ 1.743 χ^2/NDF : 1679062.2/25

Left In: 9623.485 $\pm$ 1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467 $\pm$ 1.138 χ^2/NDF : 2694036.4/47

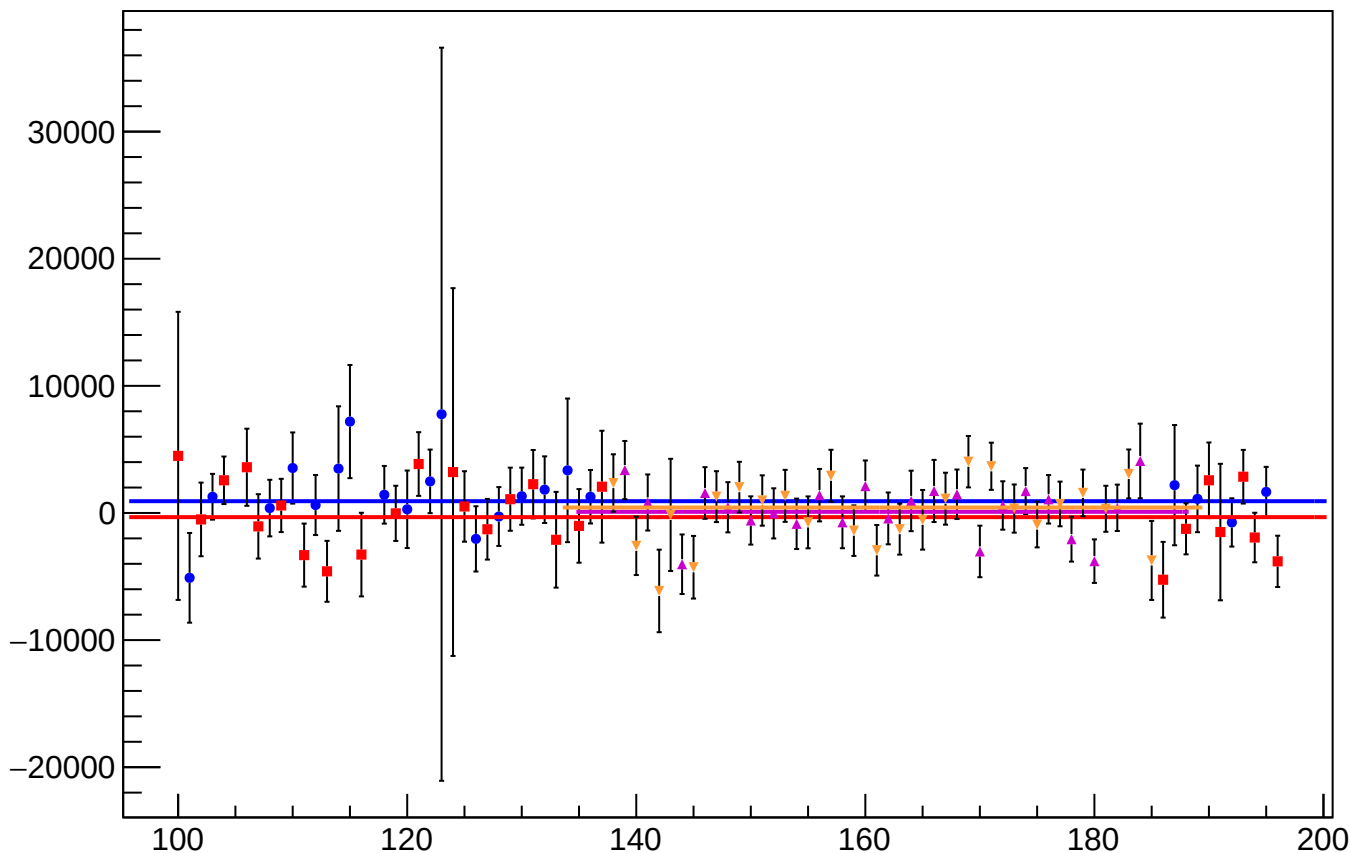
Right: 7941.607 $\pm$ 1.303 χ^2/NDF : 2661679.3/46

In: 8962.972 $\pm$ 1.266 χ^2/NDF : 2429295.6/43

Out: 8633.592 $\pm$ 1.165 χ^2/NDF : 3627212.2/50

All: 8784.546 $\pm$ 0.857 χ^2/NDF : 6093157.9/94

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 926.870+/-566.374 χ^2/NDF : 9.7/20

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -327.717+/-512.974 χ^2/NDF : 24.8/25

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

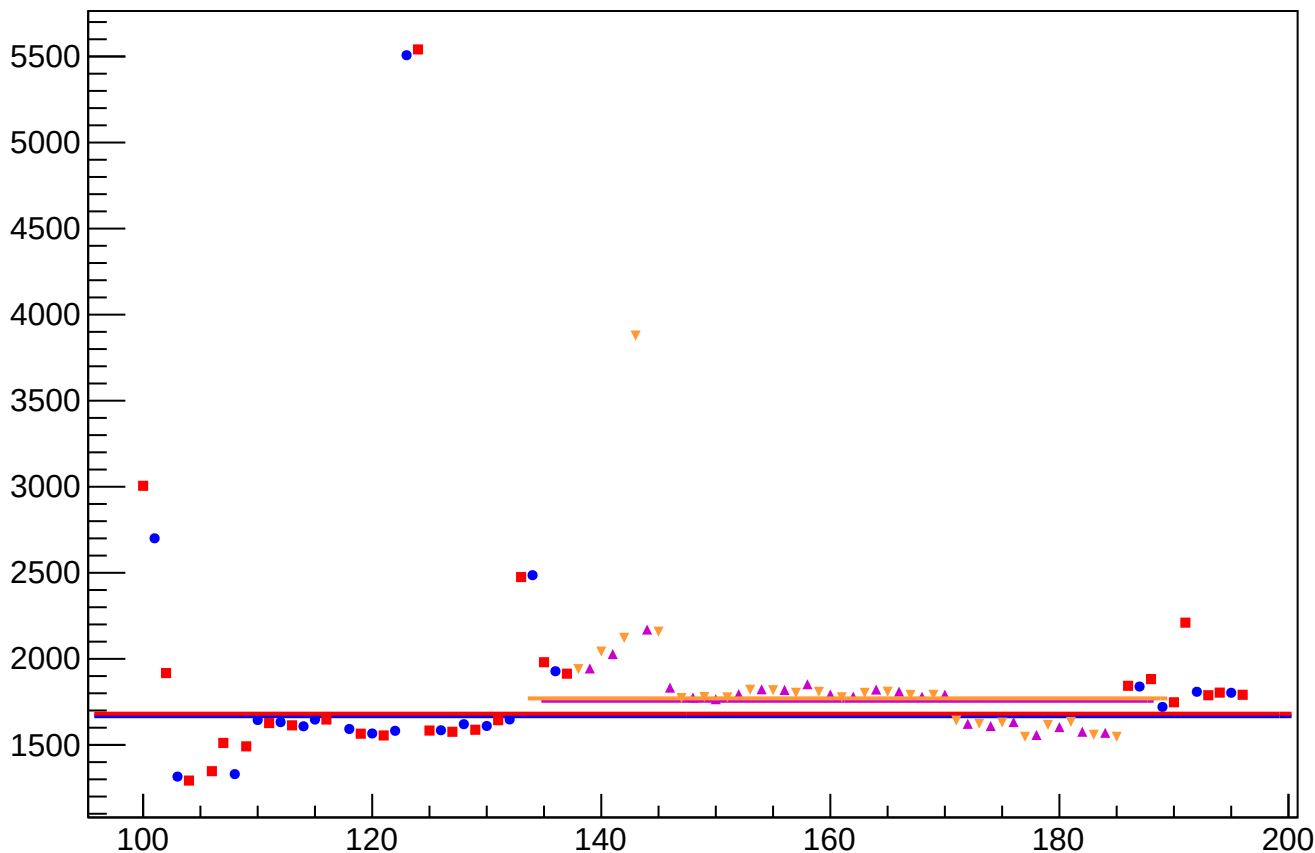
Right: 237.658+/-380.208 χ^2/NDF : 37.1/46

In: 387.660+/-338.374 χ^2/NDF : 32.0/43

Out: 128.722+/-323.284 χ^2/NDF : 54.8/50

All: 252.289+/-233.749 χ^2/NDF : 87.1/94

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1666.827 $\pm$ 0.400 χ^2 /NDF: 437763.1/20

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF:699536.9/24

Right Out: 1681.587 $\pm$ 0.363 χ^2 /NDF: 523357.3/25

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

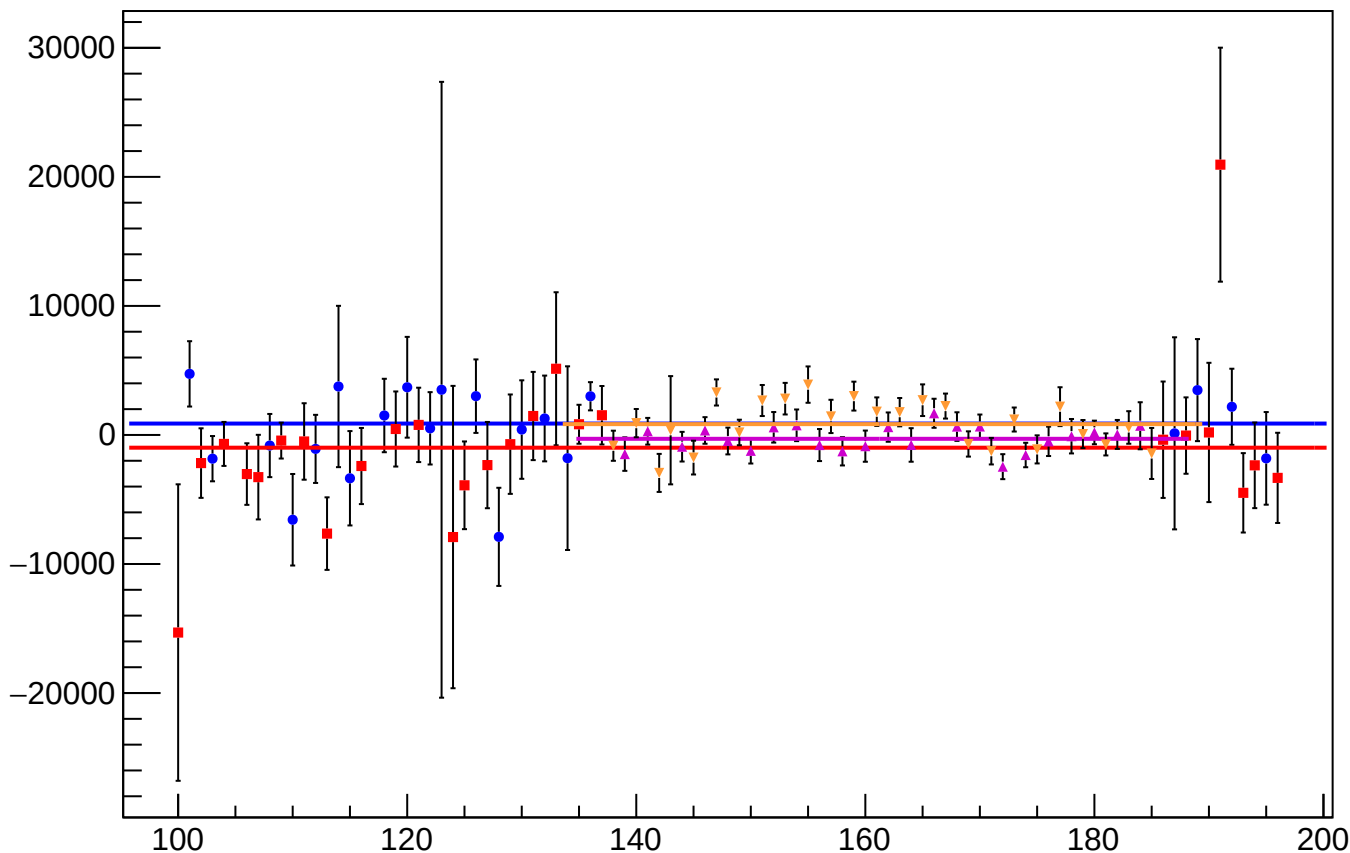
Right: 1674.935 $\pm$ 0.269 χ^2 /NDF: 961866.5/46

In: 1724.572 $\pm$ 0.239 χ^2 /NDF:693169.9/43

Out: 1735.116 $\pm$ 0.229 χ^2 /NDF:1259021.1/50

All: 1730.084 $\pm$ 0.165 χ^2 /NDF: 1953206.3/94

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 883.362 $\pm$ 600.623 χ^2 /NDF: 23.3/20

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF:54.4/24

Right Out: -986.838 $\pm$ 545.837 χ^2 /NDF: 23.1/25

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

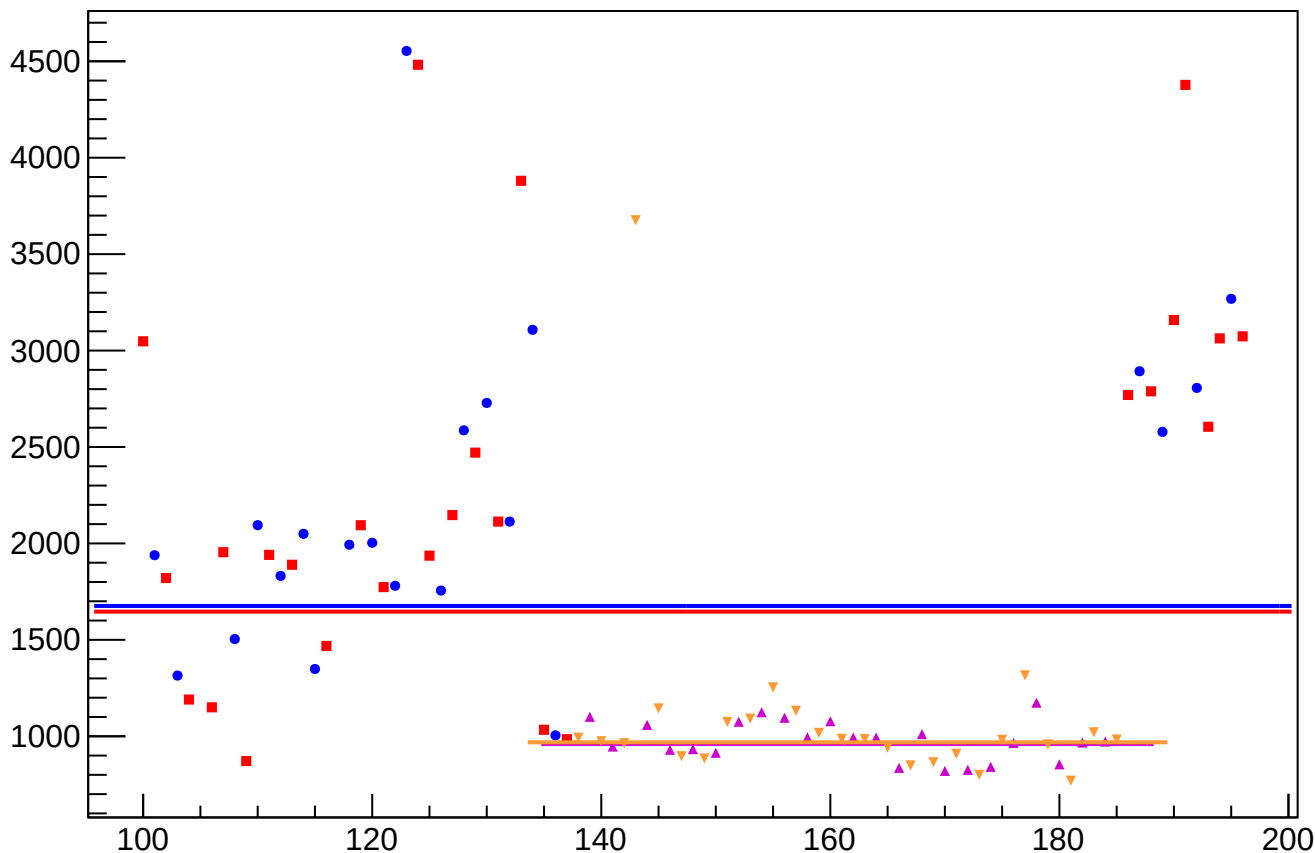
Right: -140.906 $\pm$ 403.948 χ^2 /NDF: 51.7/46

In: -146.012 $\pm$ 215.929 χ^2 /NDF:45.0/43

Out: 563.043 $\pm$ 212.316 χ^2 /NDF:87.0/50

All: 214.497 $\pm$ 151.391 χ^2 /NDF: 137.5/94

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1675.736+/-0.425 χ^2/NDF : 2227413.5/20

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1646.352+/-0.386 χ^2/NDF : 3742552.7/25

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

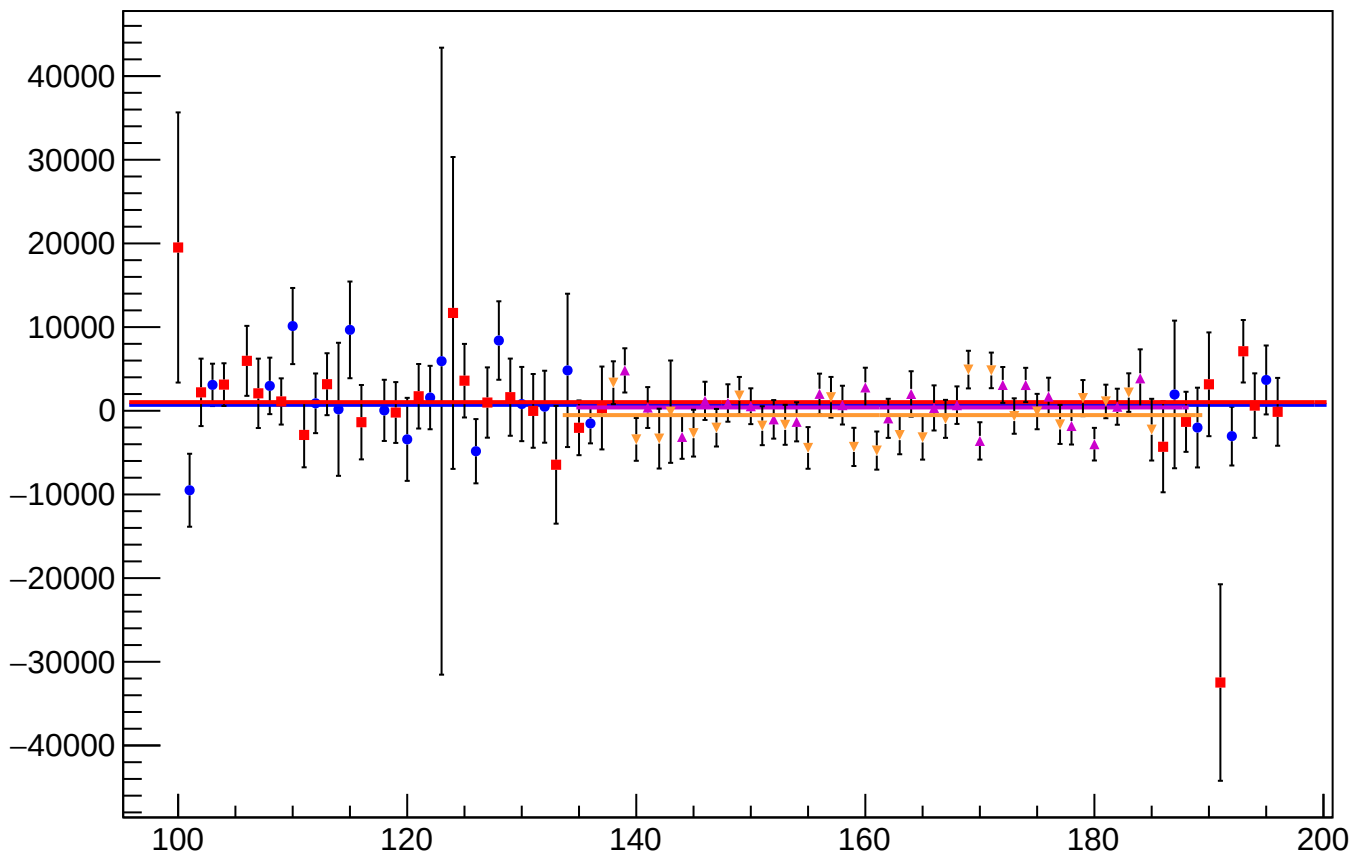
Right: 1659.643+/-0.286 χ^2/NDF : 5972587.7/46

In: 1052.336+/-0.153 χ^2/NDF : 5072991.9/43

Out: 1071.239+/-0.150 χ^2/NDF : 7752365.8/50

All: 1061.947+/-0.107 χ^2/NDF : 12833150.6/95

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 710.033 ± 891.394 $\chi^2/\text{NDF}: 22.2/20$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 1033.330 ± 814.417 $\chi^2/\text{NDF}: 20.5/25$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

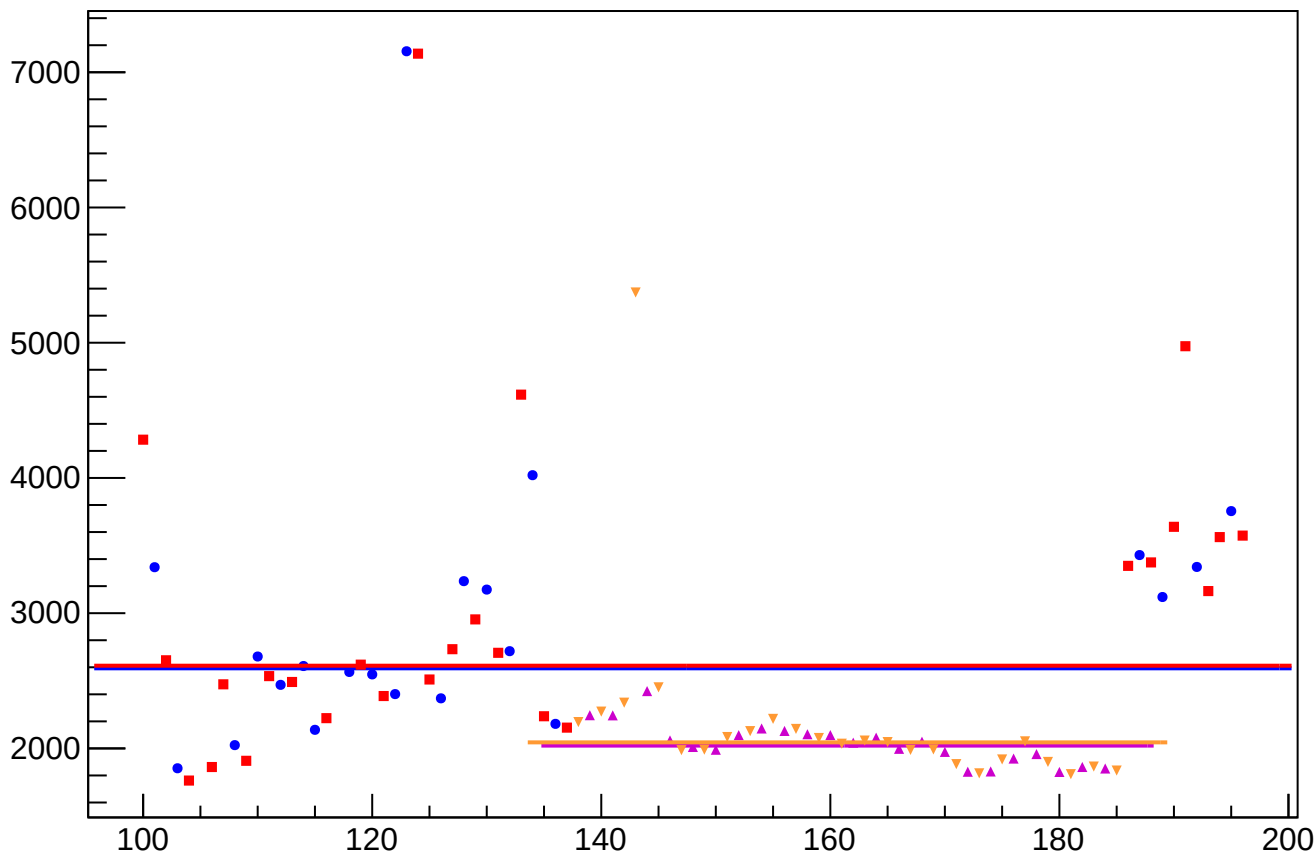
Right: 886.241 ± 601.255 $\chi^2/\text{NDF}: 42.7/46$

In: 468.820 ± 426.055 $\chi^2/\text{NDF}: 44.1/43$

Out: -116.003 ± 414.471 $\chi^2/\text{NDF}: 57.2/50$

All: 168.350 ± 297.086 $\chi^2/\text{NDF}: 102.3/94$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2592.314+/-0.630 χ^2/NDF : 818221.6/20

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2611.628+/-0.576 χ^2/NDF : 1343577.5/25

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

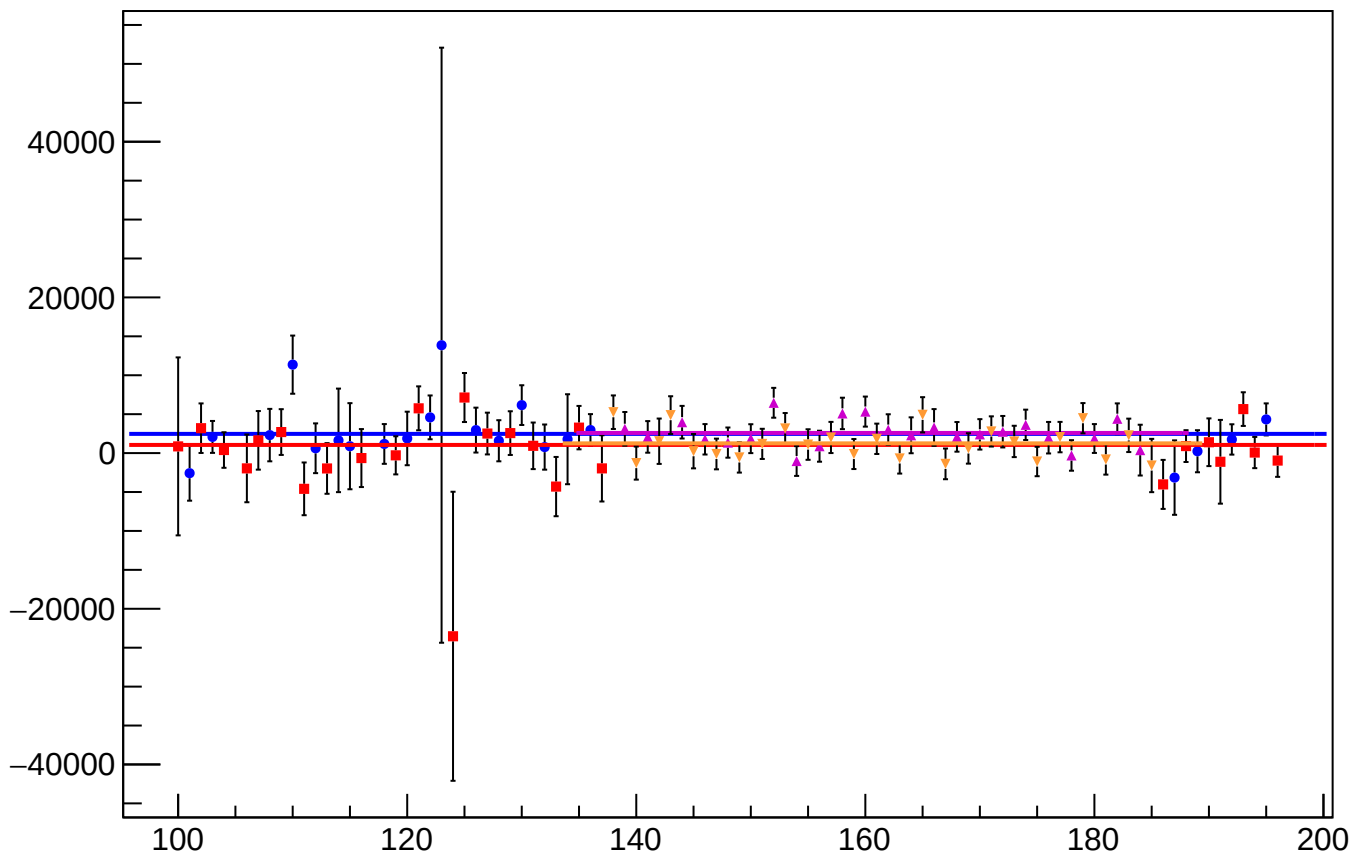
Right: 2602.841+/-0.425 χ^2/NDF : 2162310.9/46

In: 2151.365+/-0.301 χ^2/NDF : 1626040.9/43

Out: 2191.550+/-0.293 χ^2/NDF : 2850374.4/50

All: 2172.011+/-0.210 χ^2/NDF : 4485556.7/94

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2467.708+/-634.846 χ^2/NDF : 14.8/20

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 1048.488+/-578.306 χ^2/NDF : 25.9/25

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

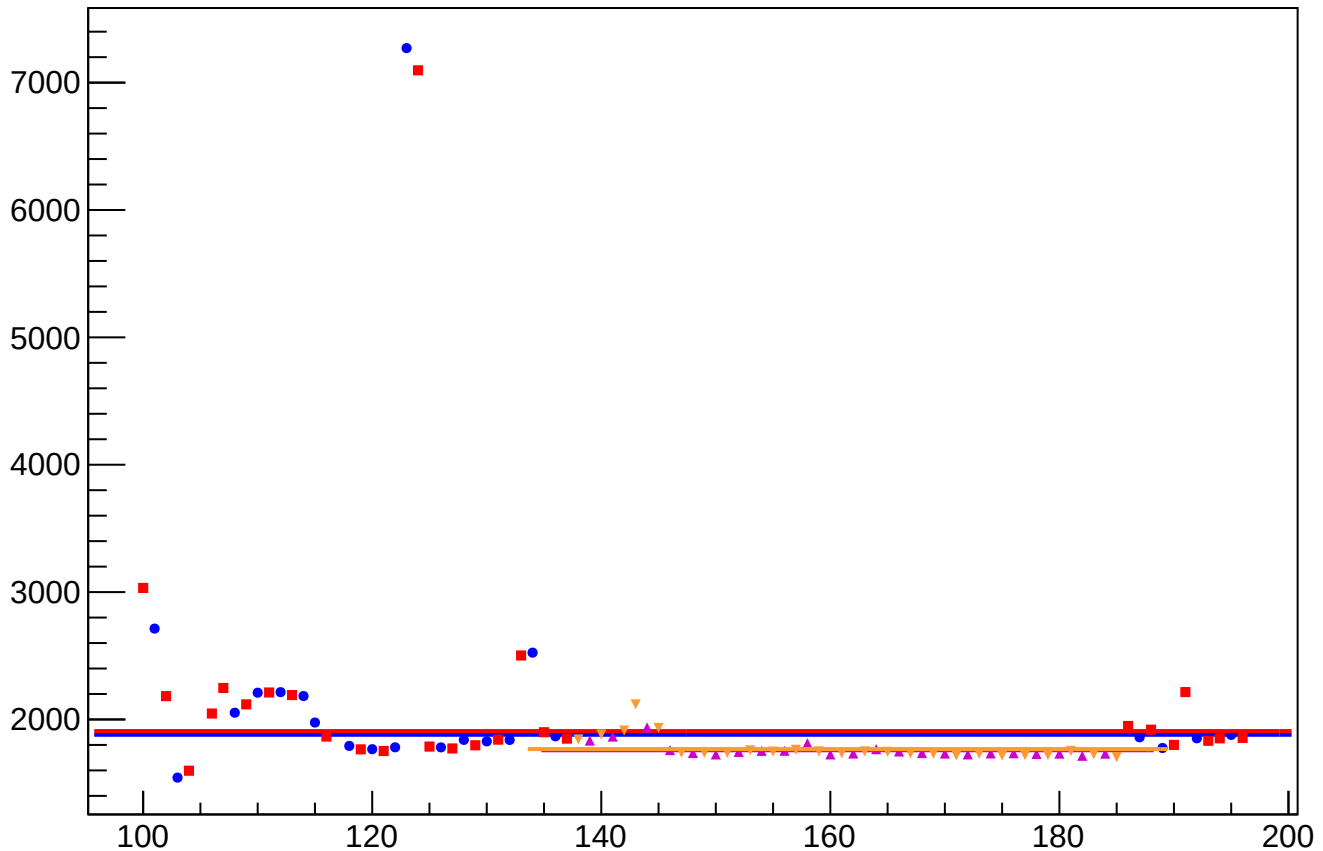
Right: 1692.097+/-427.518 χ^2/NDF : 43.4/46

In: 2550.458+/-351.156 χ^2/NDF : 32.3/43

Out: 1181.995+/-335.815 χ^2/NDF : 49.0/50

All: 1835.682+/-242.699 χ^2/NDF : 89.2/94

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1879.791+/-0.449 χ^2/NDF : 291696.0/20

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1908.908+/-0.409 χ^2/NDF : 376580.3/25

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

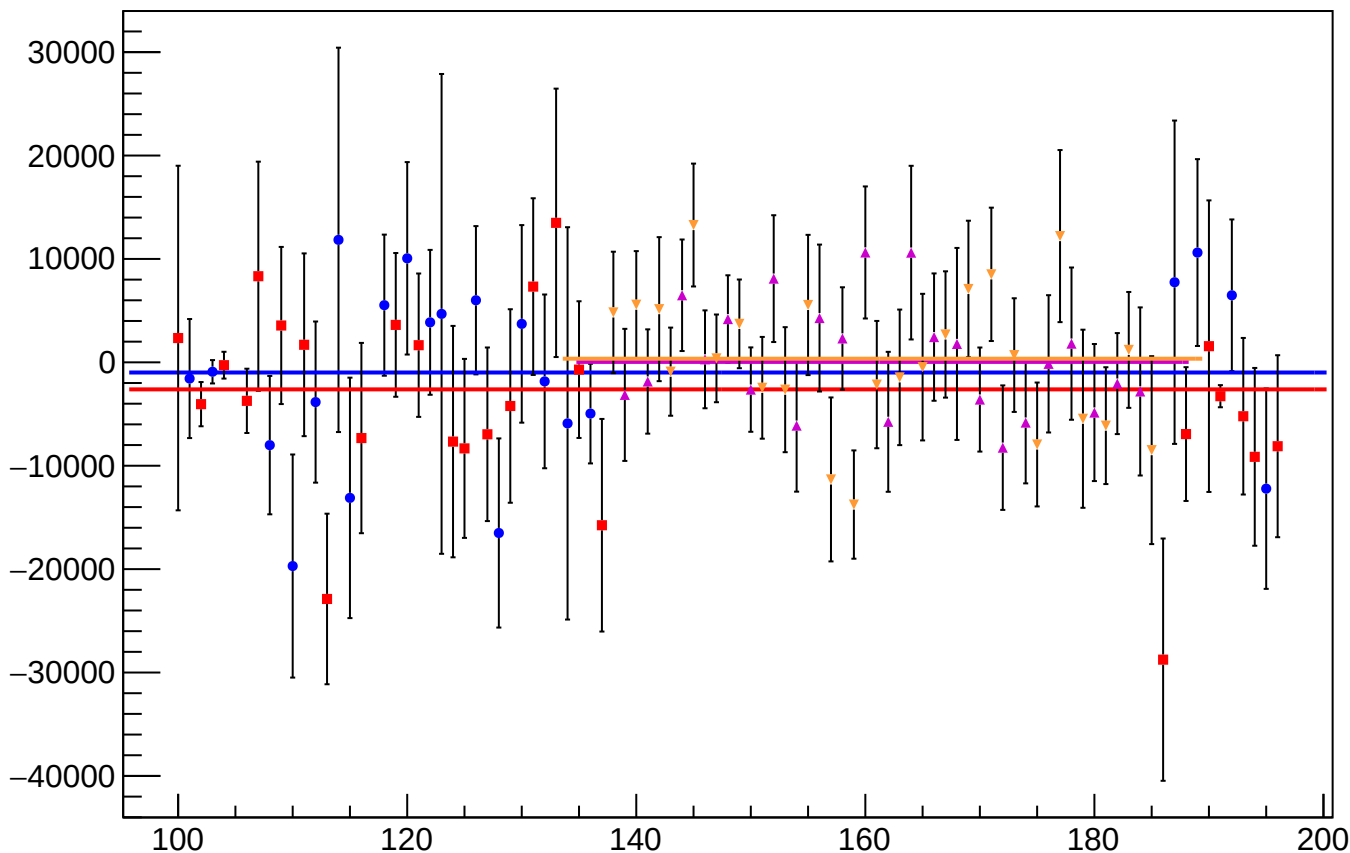
Right: 1895.717+/-0.302 χ^2/NDF : 670577.4/46

In: 1795.316+/-0.248 χ^2/NDF : 372525.3/43

Out: 1815.254+/-0.237 χ^2/NDF : 533595.5/50

All: 1805.733+/-0.172 χ^2/NDF : 909489.6/94

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -983.864 $\pm$ 964.153 χ^2 /NDF: 17.9/20

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2614.788 $\pm$ 693.334 χ^2 /NDF: 25.8/25

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

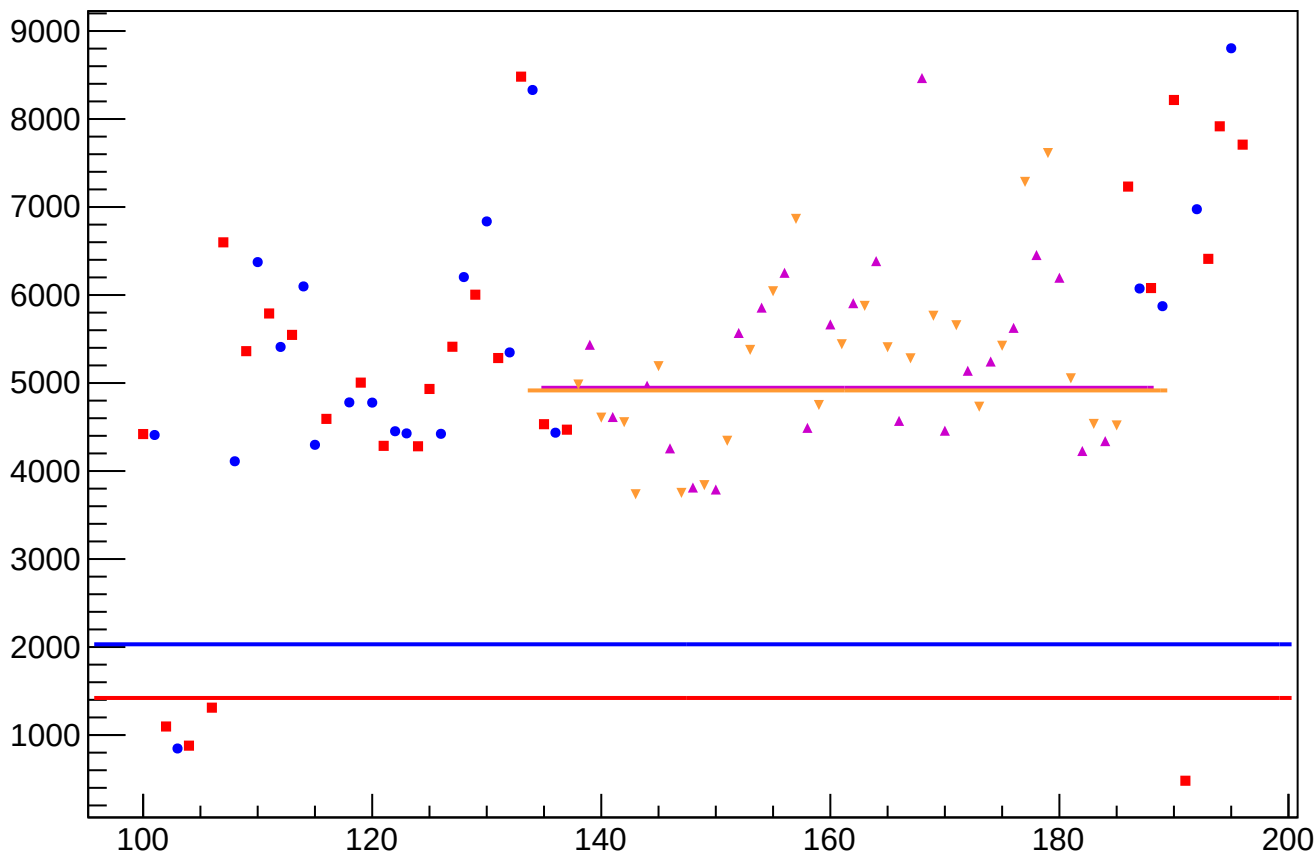
Right: -2058.875 $\pm$ 562.901 χ^2 /NDF: 45.5/46

In: -584.995 $\pm$ 753.437 χ^2 /NDF:34.3/43

Out: -1843.974 $\pm$ 596.476 χ^2 /NDF:58.4/50

All: -1358.919 $\pm$ 467.663 χ^2 /NDF: 94.4/94

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2031.101+/-0.682 χ^2/NDF : 8920671.1/20

Left Out: 4915.865+/-0.827 χ^2/NDF : 1186479.7/24

Right Out: 1421.227+/-0.490 χ^2/NDF : 13117302.6/25

Left In: 4945.817+/-0.854 χ^2/NDF : 1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

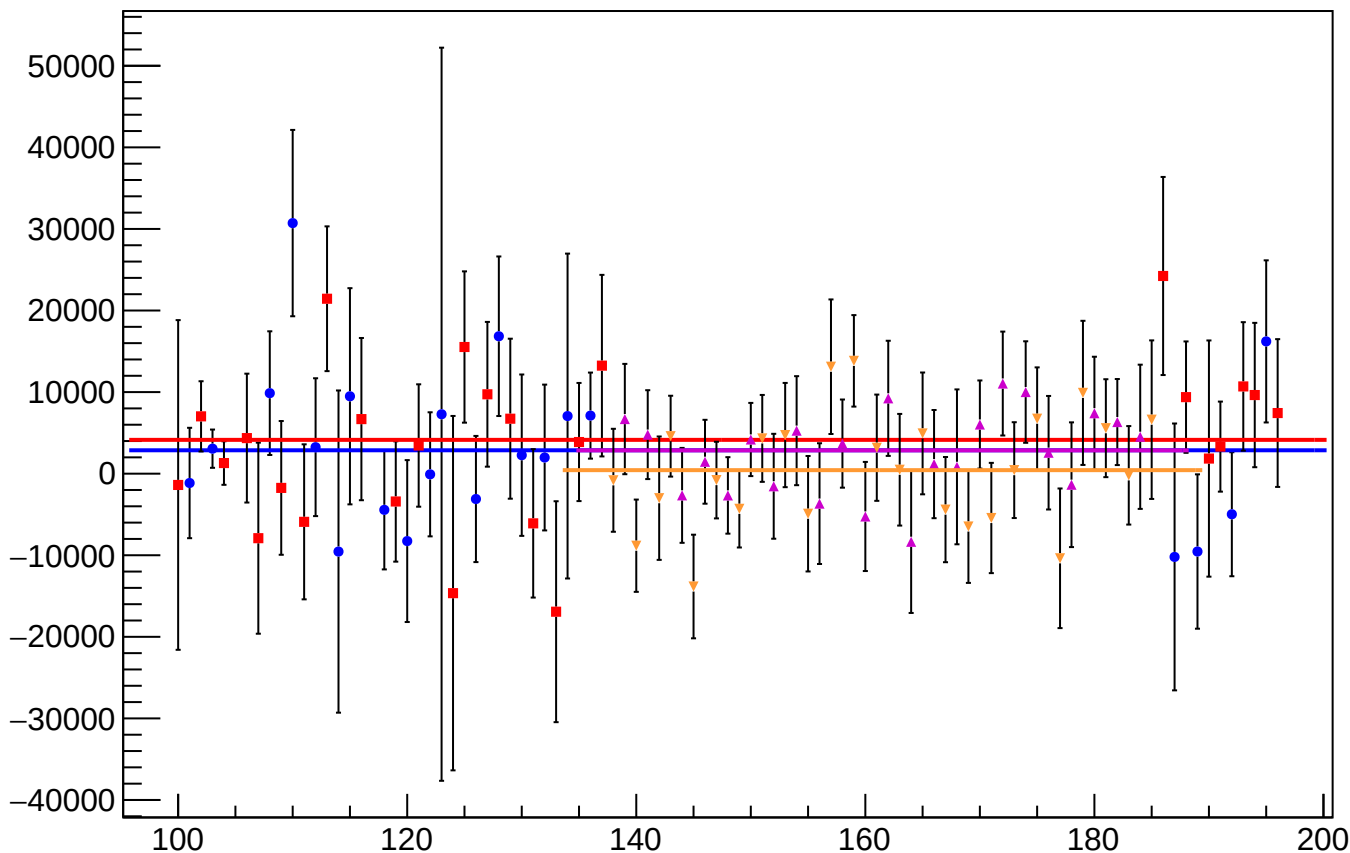
Right: 1629.107+/-0.398 χ^2/NDF : 22565443.6/46

In: 3165.907+/-0.533 χ^2/NDF : 17225294.0/43

Out: 2329.421+/-0.422 χ^2/NDF : 27508389.5/50

All: 2651.699+/-0.331 χ^2/NDF : 46249106.9/99

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2867.202 $\pm$ 1527.690 χ^2 /NDF: 18.8/20

Left Out: 430.860 $\pm$ 1258.273 χ^2 /NDF:27.1/24

Right Out: 4144.768 $\pm$ 1423.290 χ^2 /NDF: 20.9/25

Left In: 2860.252 $\pm$ 1292.328 χ^2 /NDF:12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2 /NDF: 41.8/47

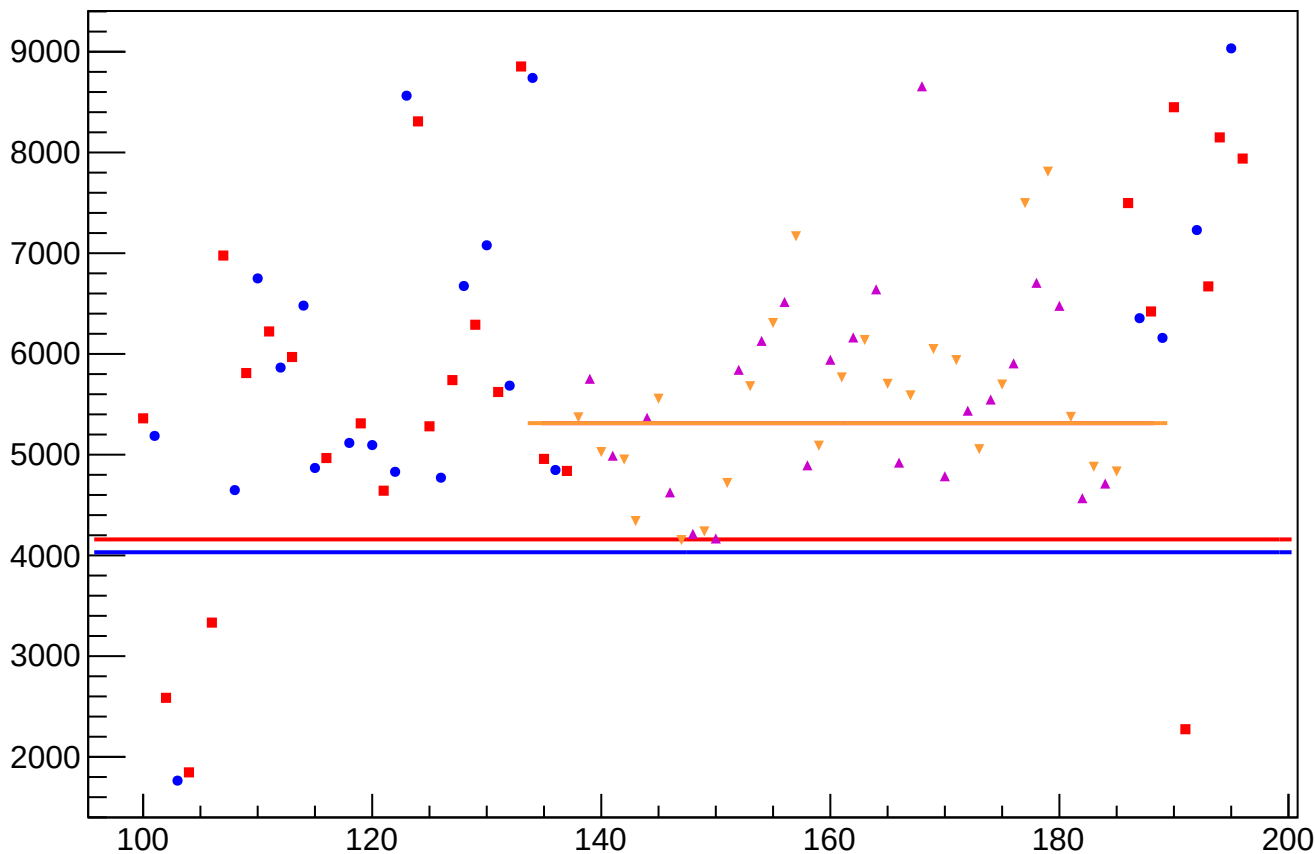
Right: 3551.127 $\pm$ 1041.372 χ^2 /NDF: 40.1/46

In: 2863.151 $\pm$ 986.652 χ^2 /NDF:31.7/43

Out: 2060.131 $\pm$ 942.702 χ^2 /NDF:51.9/50

All: 2443.358 $\pm$ 681.599 χ^2 /NDF: 83.9/94

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4031.382+/-1.080 χ^2/NDF : 3881978.9/20

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4158.749+/-1.001 χ^2/NDF : 4573930.7/25

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

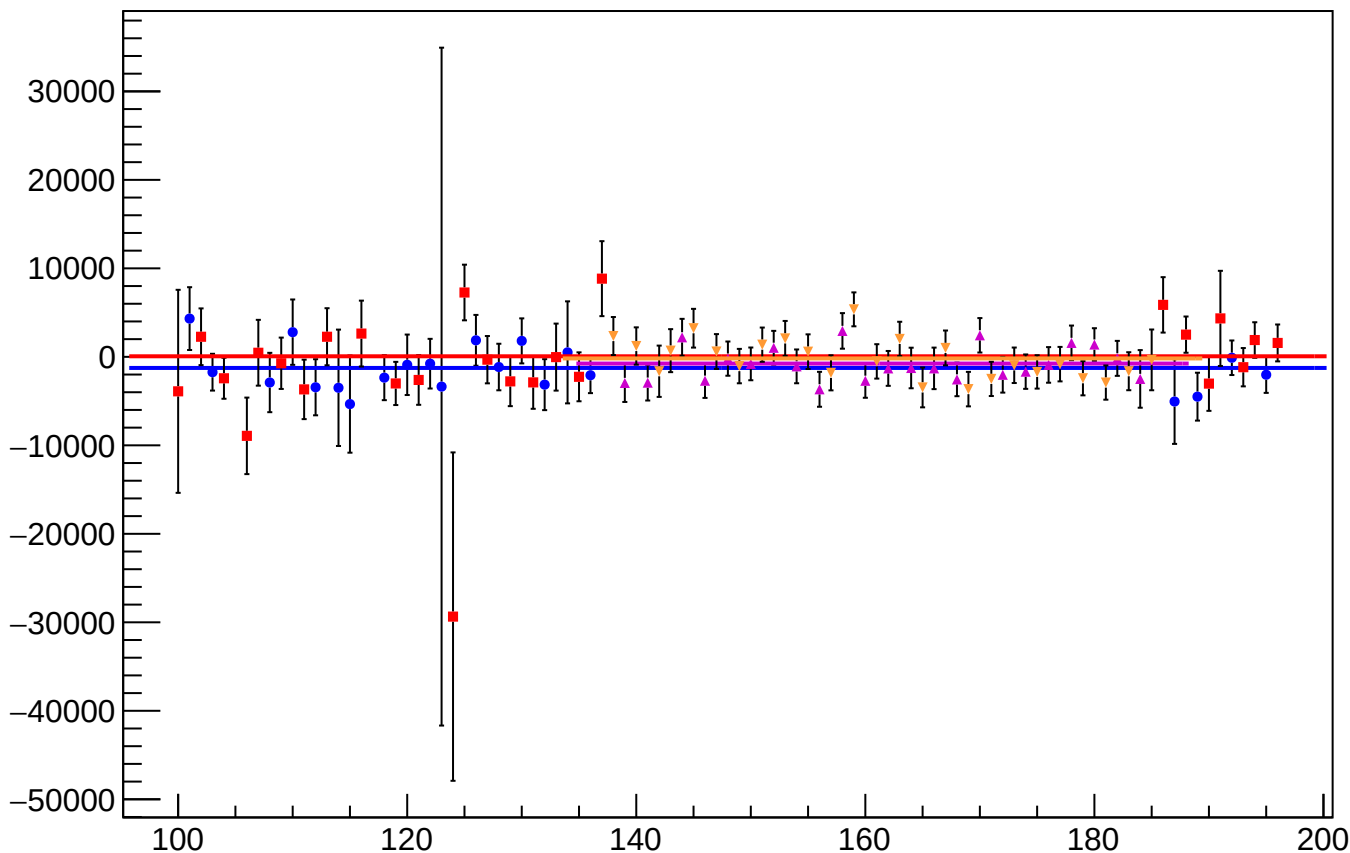
Right: 4099.897+/-0.734 χ^2/NDF : 8463388.1/46

In: 4778.335+/-0.698 χ^2/NDF : 5659664.5/43

Out: 4803.659+/-0.665 χ^2/NDF : 6210975.5/50

All: 4791.603+/-0.481 χ^2/NDF : 11871330.3/9

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1254.370 ± 633.366 $\chi^2/\text{NDF}: 11.2/20$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 62.883 ± 577.355 $\chi^2/\text{NDF}: 33.8/25$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

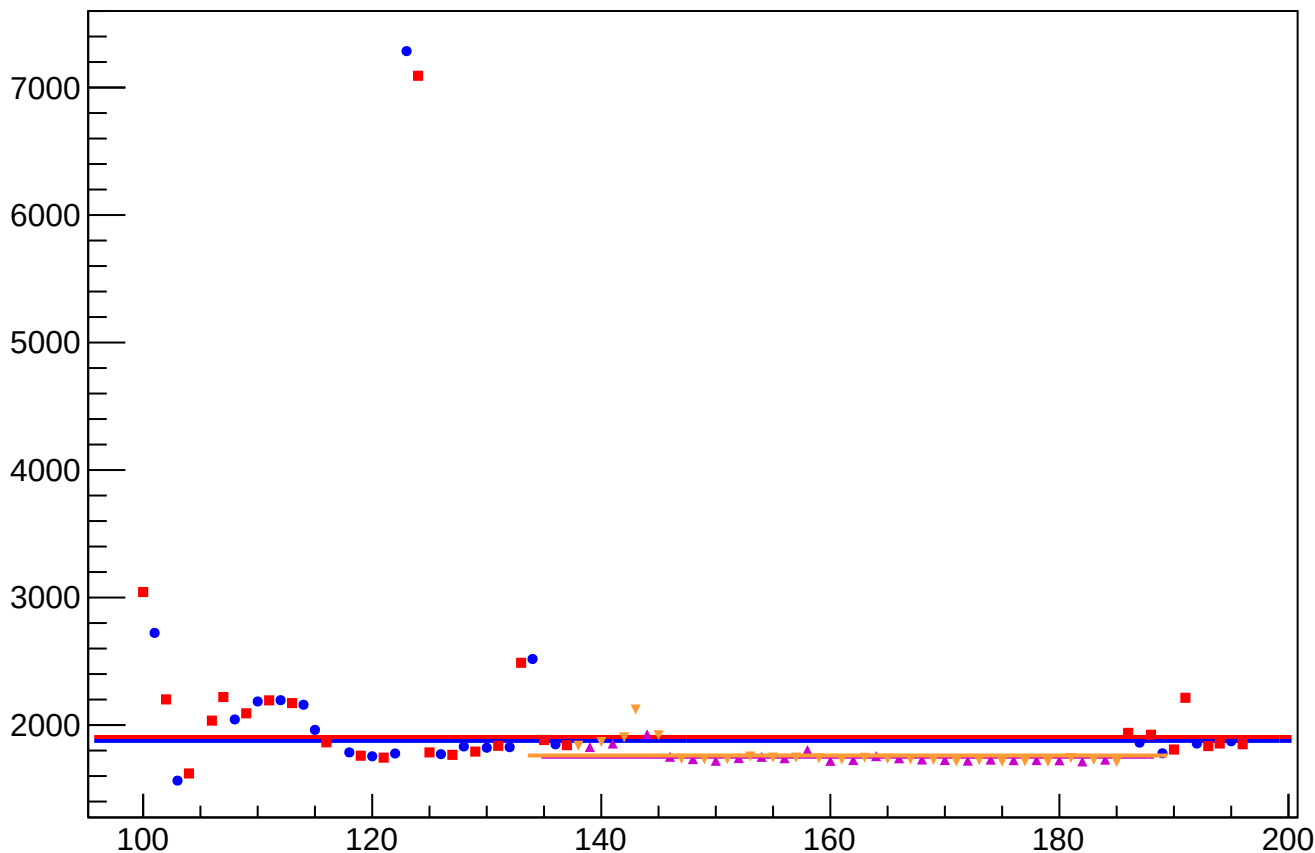
Right: -534.934 ± 426.682 $\chi^2/\text{NDF}: 47.4/46$

In: -910.775 ± 349.978 $\chi^2/\text{NDF}: 31.9/43$

Out: -98.183 ± 334.814 $\chi^2/\text{NDF}: 63.2/50$

All: -486.494 ± 241.932 $\chi^2/\text{NDF}: 97.9/94$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1875.900+/-0.448 χ^2/NDF : 282466.2/20

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1906.571+/-0.408 χ^2/NDF : 364703.2/25

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

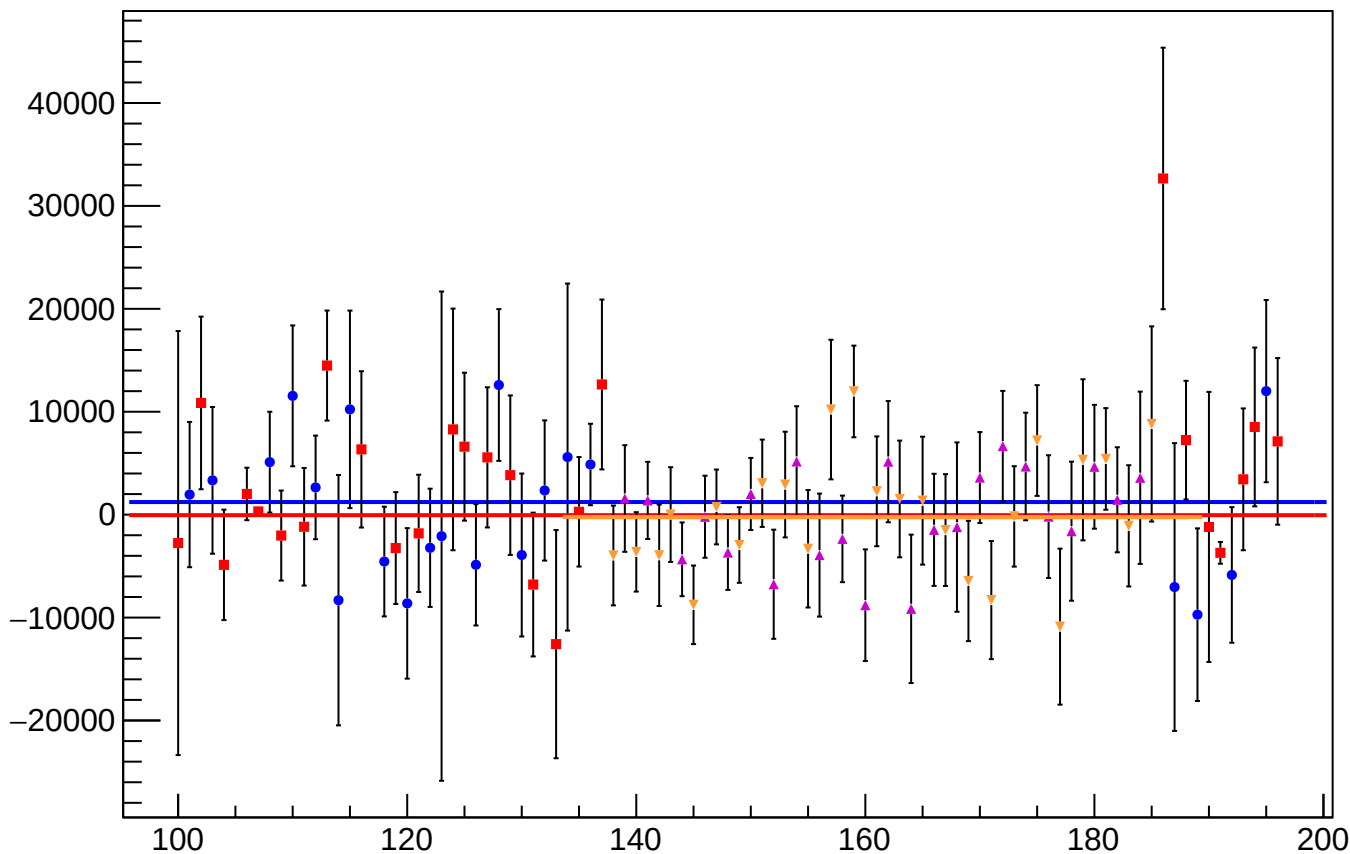
Right: 1892.666+/-0.302 χ^2/NDF : 649733.1/46

In: 1789.426+/-0.247 χ^2/NDF : 364712.6/43

Out: 1810.077+/-0.237 χ^2/NDF : 526559.1/50

All: 1800.212+/-0.171 χ^2/NDF : 894908.8/94

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1225.234+/-1485.716 χ^2/NDF : 17.7/20

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: -48.515+/-413.721 χ^2/NDF : 41.8/25

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

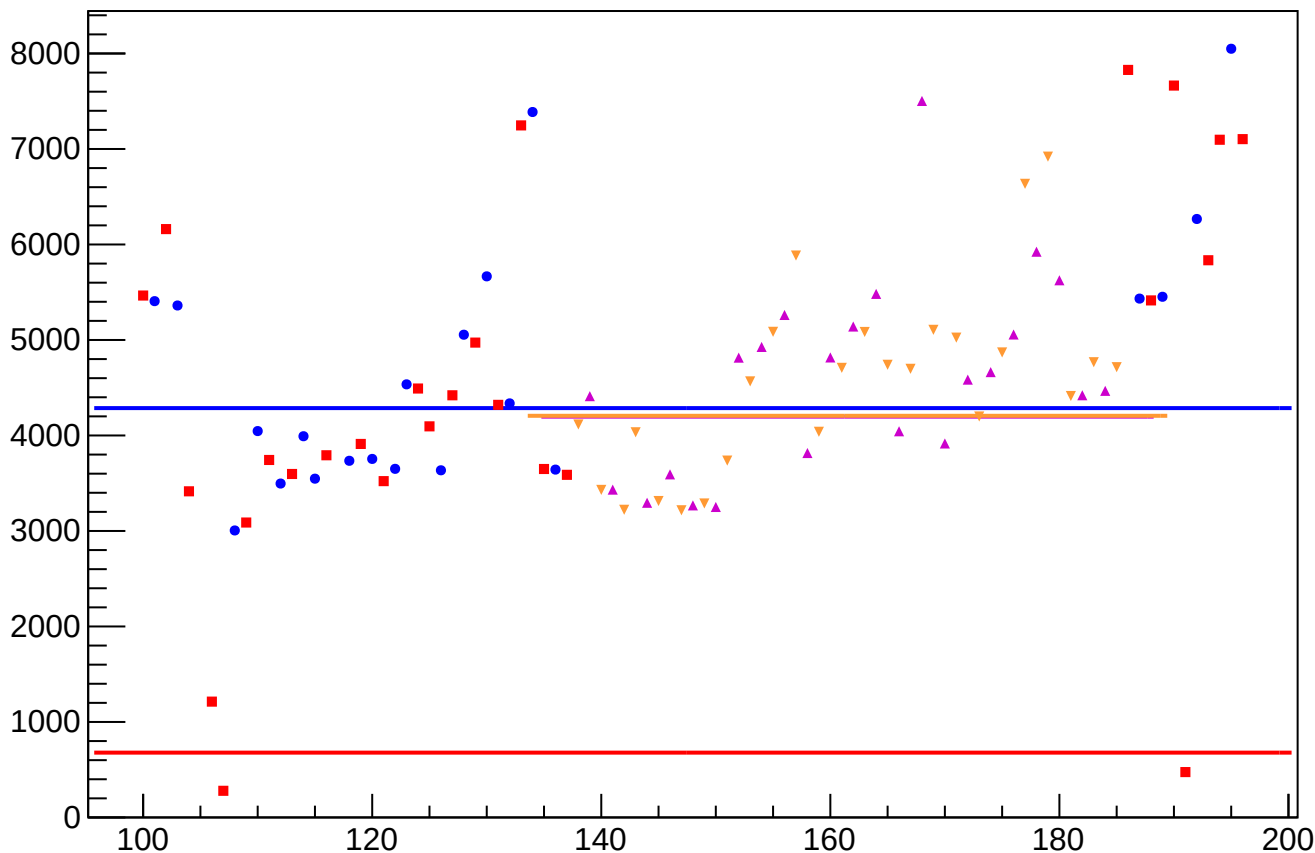
Right: 43.148+/-398.557 χ^2/NDF : 60.2/46

In: 235.454+/-845.857 χ^2/NDF : 33.7/43

Out: -75.649+/-382.581 χ^2/NDF : 70.7/50

All: -22.814+/-348.583 χ^2/NDF : 104.5/94

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4286.634 $\pm$ 1.051 χ^2 /NDF: 1176100.4/20

Left Out: 4206.076 $\pm$ 0.711 χ^2 /NDF: 1442269.3/24

Right Out: 678.843 $\pm$ 0.293 χ^2 /NDF: 16655229.6/25

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

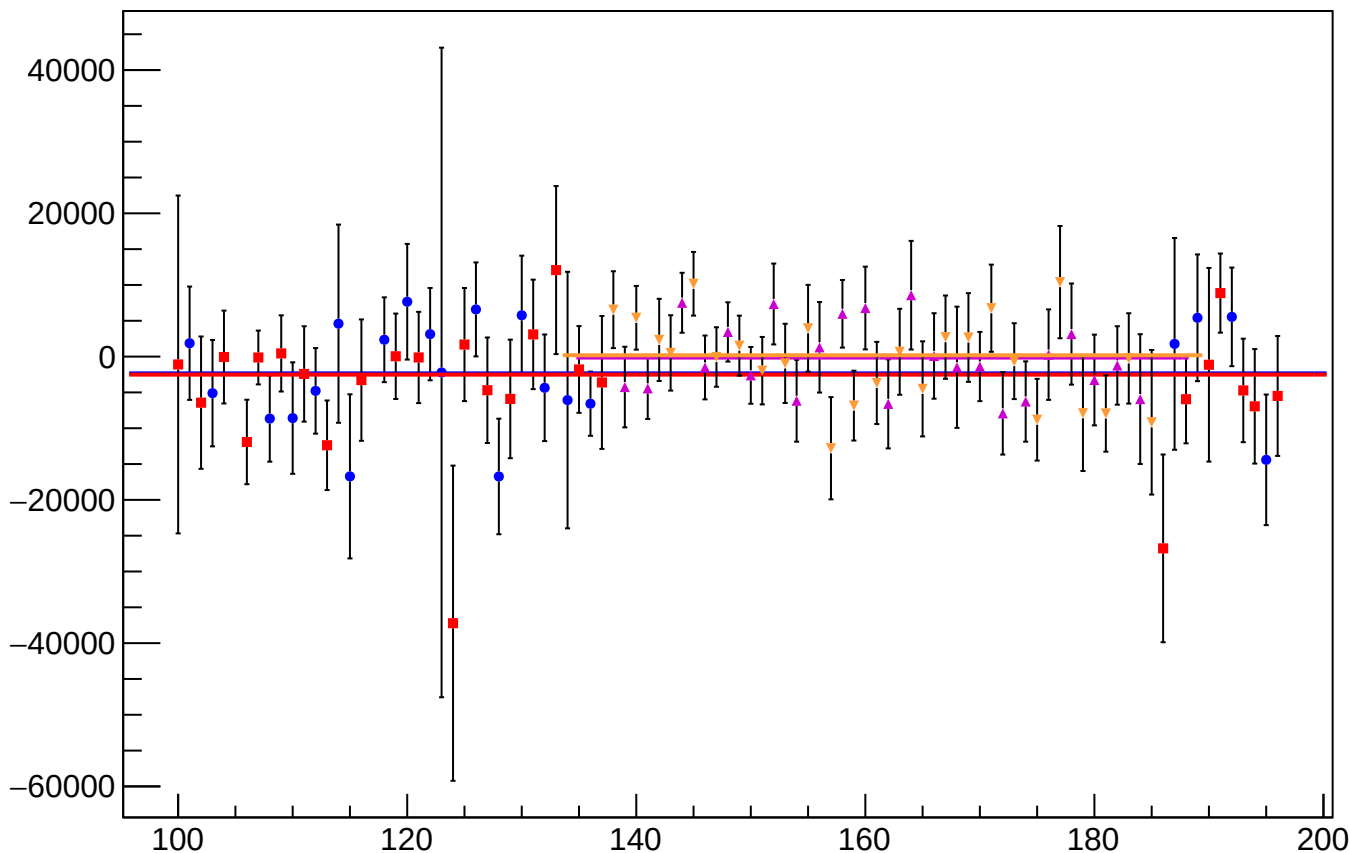
Right: 938.470 $\pm$ 0.282 χ^2 /NDF: 28776095.2/46

In: 4226.234 $\pm$ 0.598 χ^2 /NDF: 2652004.0/43

Out: 1189.846 $\pm$ 0.271 χ^2 /NDF: 39158179.6/50

All: 1705.521 $\pm$ 0.246 χ^2 /NDF: 63205405.0/95

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2339.410 ± 1661.778 χ^2/NDF : 18.0/20

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2517.258 ± 1385.195 χ^2/NDF : 20.1/25

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

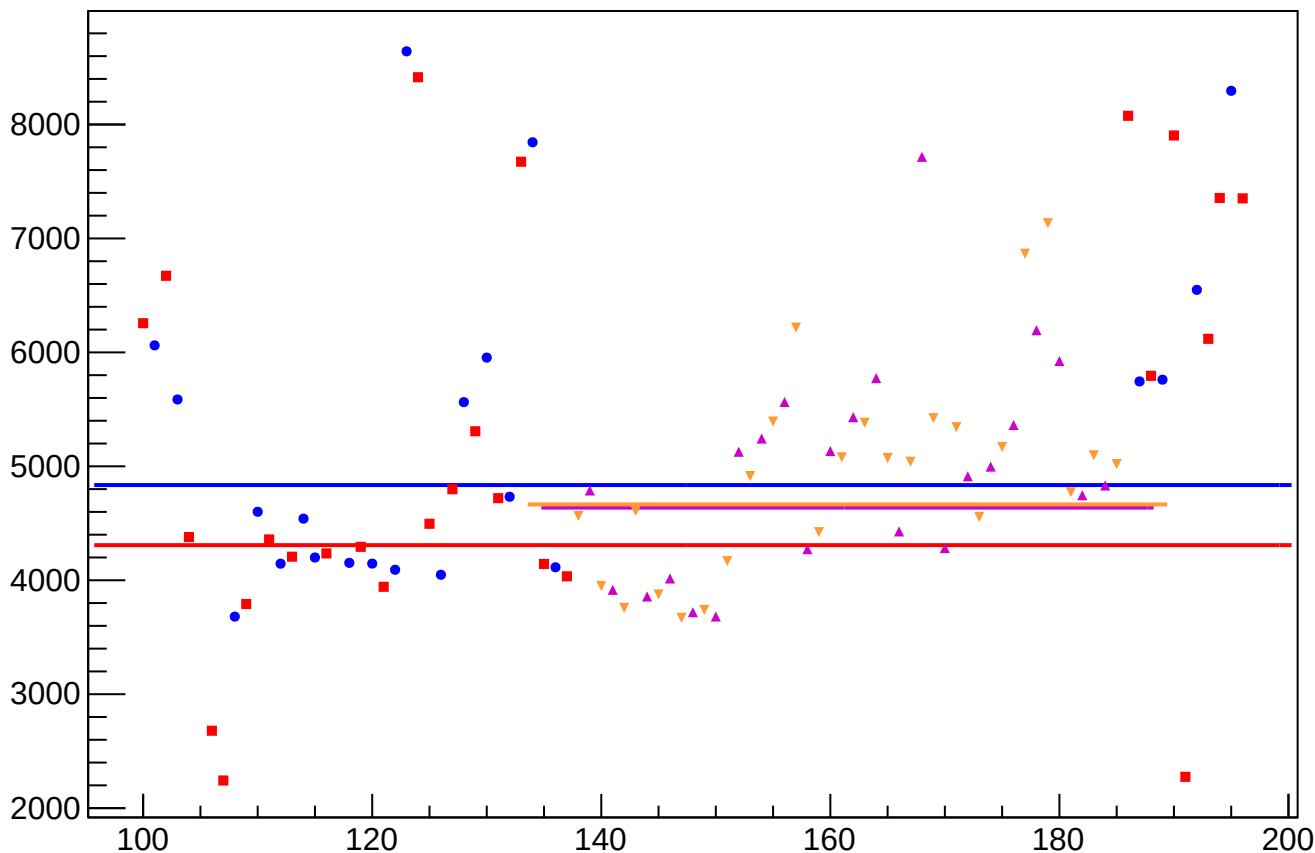
Right: -2444.346 ± 1064.016 χ^2/NDF : 38.0/46

In: -833.415 ± 934.235 χ^2/NDF : 37.8/43

Out: -865.144 ± 864.703 χ^2/NDF : 47.4/50

All: -850.504 ± 634.596 χ^2/NDF : 85.1/94

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4835.622+/-1.175 χ^2/NDF : 890983.1/20

Left Out: 4665.620+/-0.783 χ^2/NDF : 1017235.0/24

Right Out: 4308.184+/-0.975 χ^2/NDF : 2613643.5/25

Left In: 4637.777+/-0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

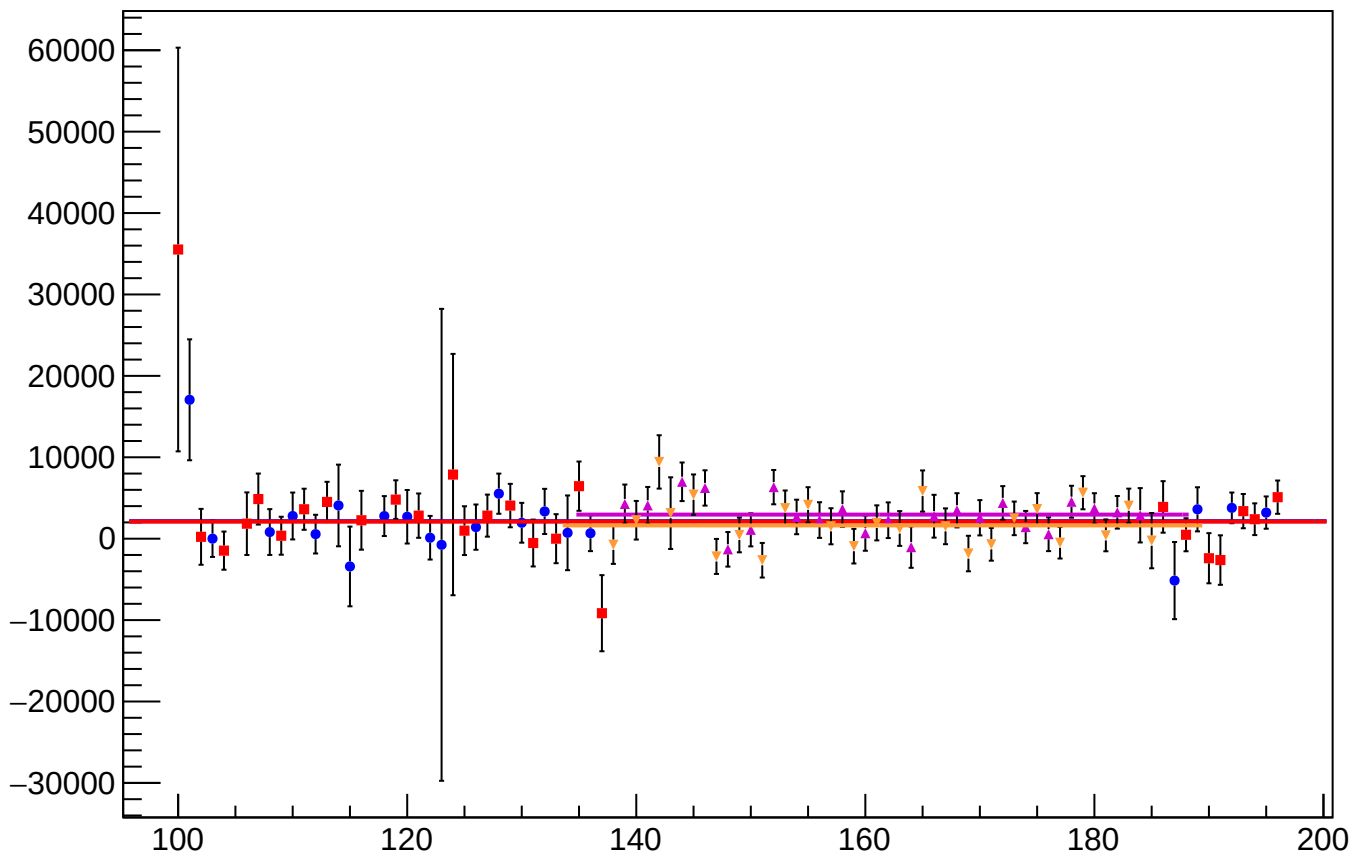
Right: 4523.151+/-0.750 χ^2/NDF : 3623988.2/46

In: 4700.308+/-0.661 χ^2/NDF : 1975589.1/43

Out: 4525.488+/-0.610 χ^2/NDF : 3712647.1/50

All: 4605.982+/-0.448 χ^2/NDF : 5726022.9/94

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2149.796 $\pm$ 610.523 χ^2 /NDF: 14.2/20

Left Out: 1630.035 $\pm$ 447.063 χ^2 /NDF: 35.4/24

Right Out: 2100.574 $\pm$ 541.567 χ^2 /NDF: 26.6/25

Left In: 2958.620 $\pm$ 453.688 χ^2 /NDF: 20.4/22

Left: 2284.557 $\pm$ 318.438 χ^2 /NDF: 60.2/47

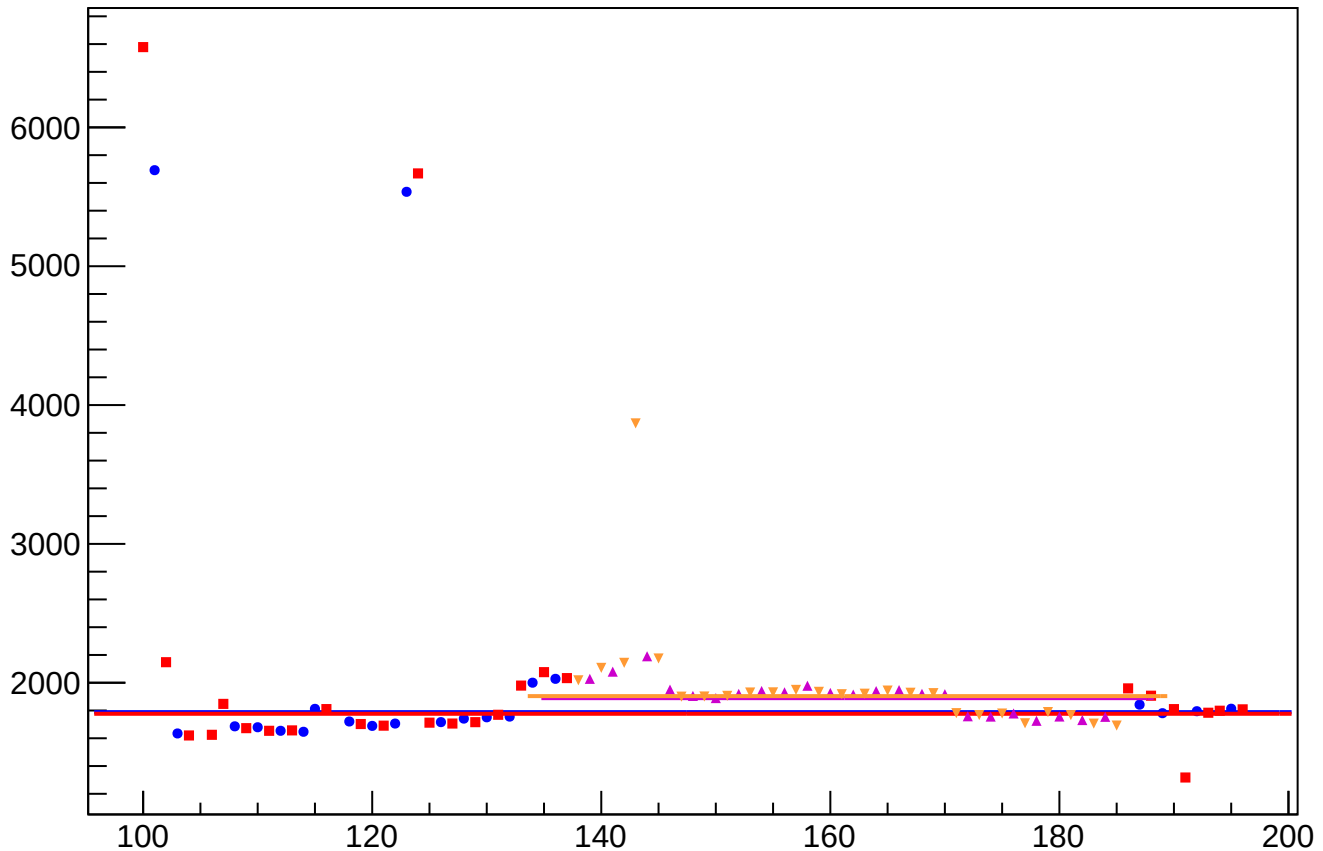
Right: 2122.249 $\pm$ 405.141 χ^2 /NDF: 40.8/46

In: 2670.873 $\pm$ 364.151 χ^2 /NDF: 35.7/43

Out: 1820.732 $\pm$ 344.768 χ^2 /NDF: 62.5/50

All: 2222.576 $\pm$ 250.360 χ^2 /NDF: 101.1/94

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1788.299+/-0.432 χ^2/NDF : 645323.8/20

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1776.418+/-0.381 χ^2/NDF : 367868.6/25

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

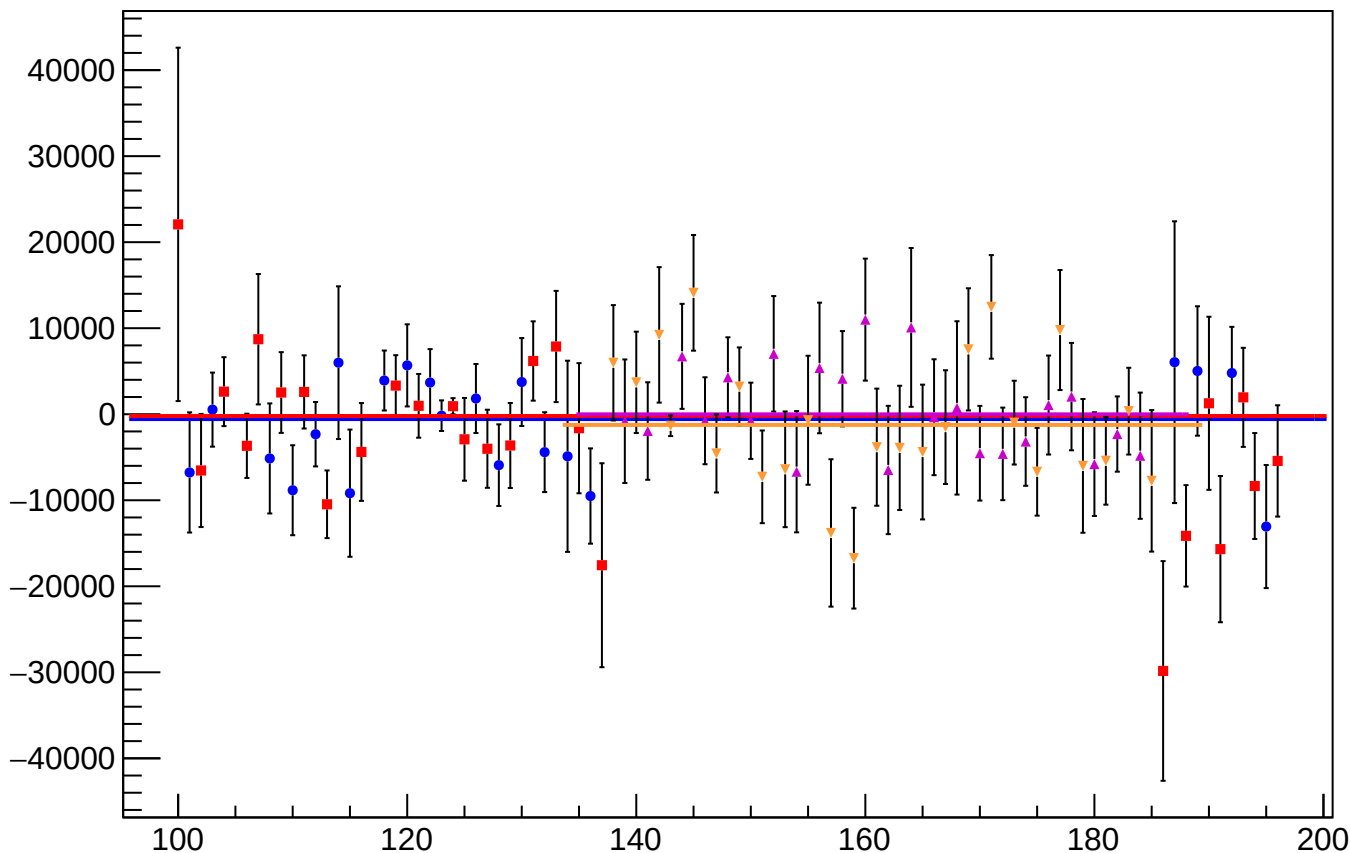
Right: 1781.624+/-0.286 χ^2/NDF : 1013617.9/46

In: 1853.127+/-0.257 χ^2/NDF : 806744.7/43

Out: 1851.802+/-0.243 χ^2/NDF : 975398.8/50

All: 1852.427+/-0.177 χ^2/NDF : 1782157.4/94

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -561.739+/-974.028 χ^2/NDF : 21.1/20

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: -208.568+/-700.660 χ^2/NDF : 39.6/25

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

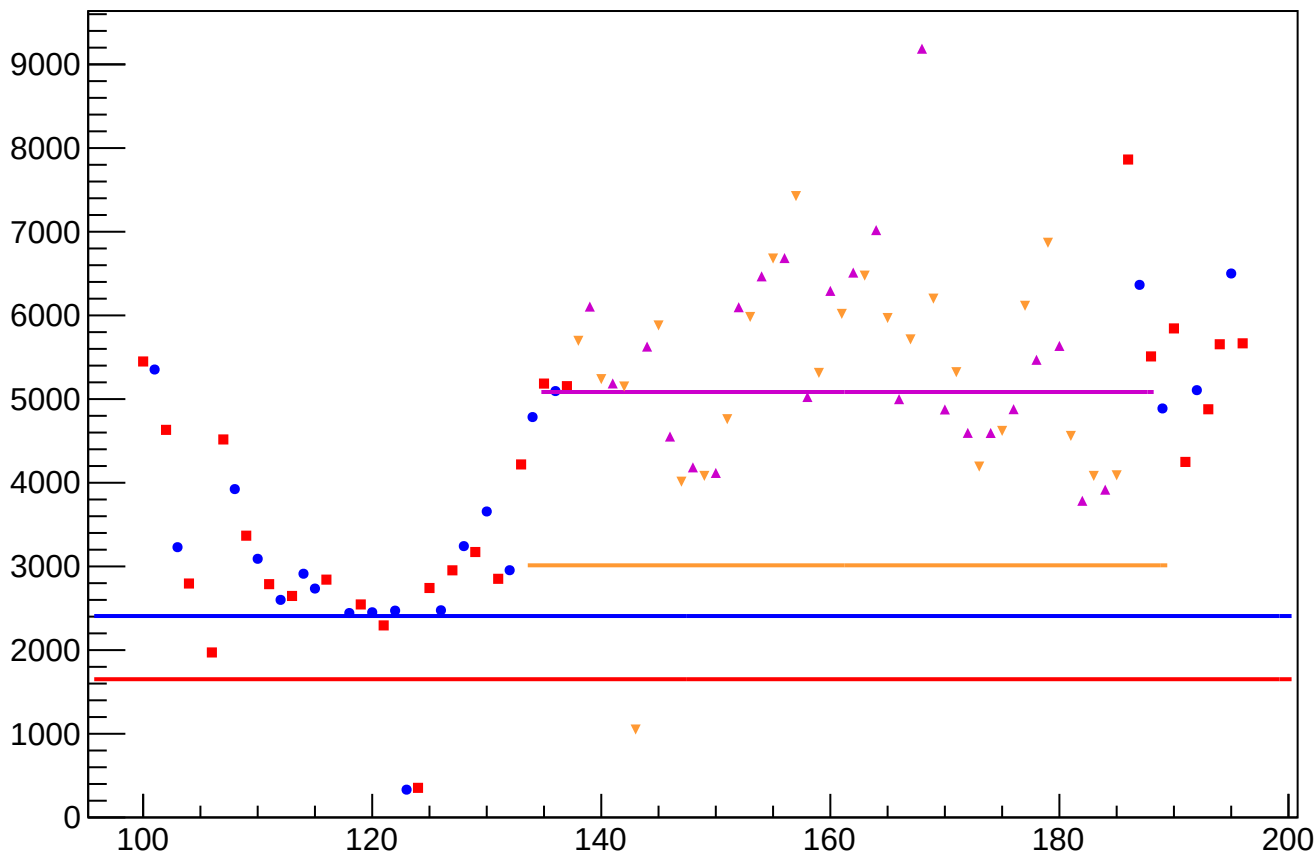
Right: -329.000+/-568.787 χ^2/NDF : 60.8/46

In: -354.132+/-766.753 χ^2/NDF : 34.5/43

Out: -617.018+/-544.505 χ^2/NDF : 74.3/50

All: -528.888+/-443.950 χ^2/NDF : 108.9/94

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2407.334+/-0.689 χ^2/NDF : 5583430.3/20

Left Out: 3013.268+/-0.612 χ^2/NDF : 12270753.9/24

Right Out: 1652.143+/-0.495 χ^2/NDF : 11236551.7/25

Left In: 5084.645+/-0.879 χ^2/NDF : 1303587.7/22

Left: 3689.075+/-0.502 χ^2/NDF : 17314385.8/47

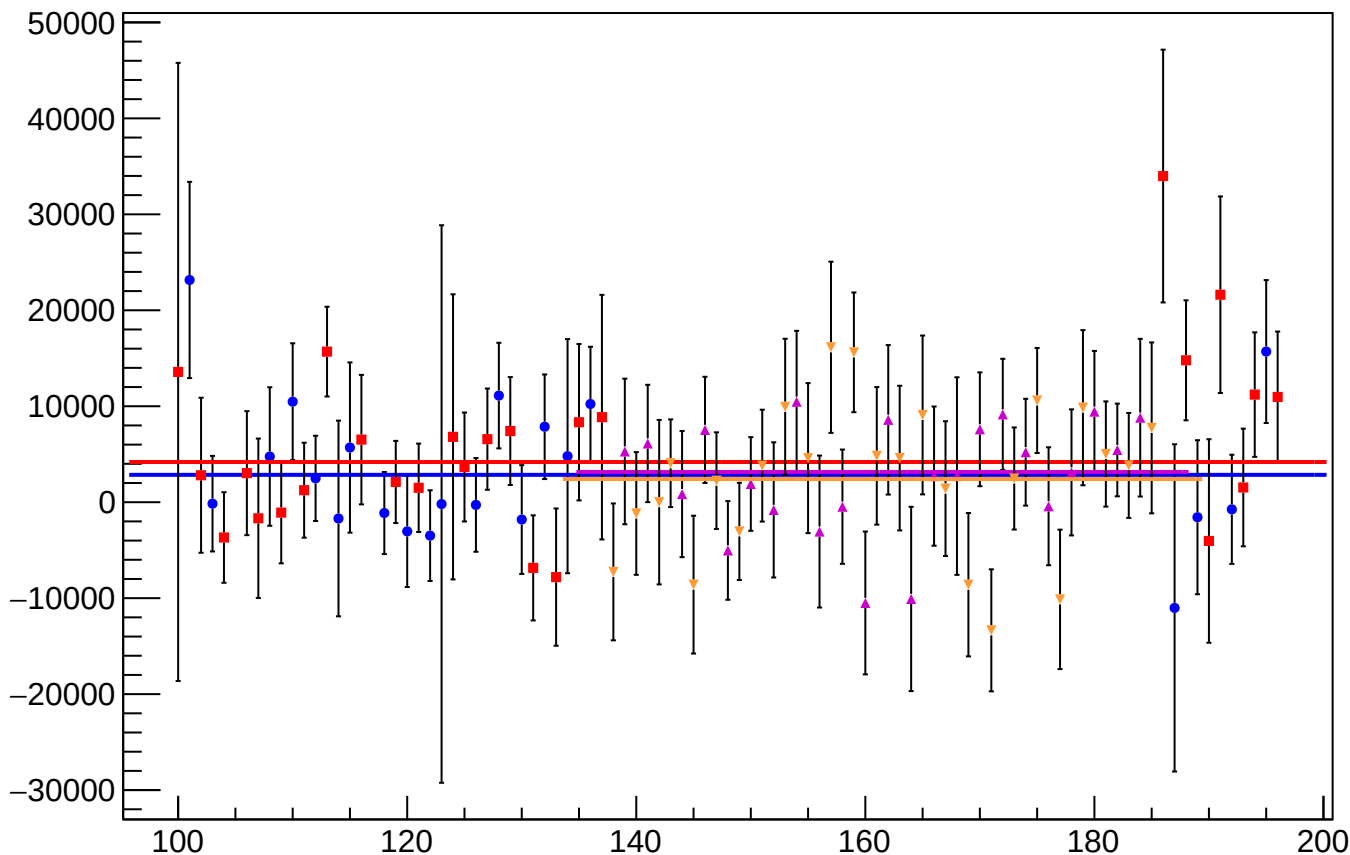
Right: 1909.664+/-0.402 χ^2/NDF : 17612275.3/46

In: 3425.564+/-0.542 χ^2/NDF : 12633899.6/43

Out: 2191.240+/-0.385 χ^2/NDF : 26496681.7/50

All: 2605.036+/-0.314 χ^2/NDF : 42575998.6/95

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2851.863+/-1358.219 χ^2/NDF : 20.0/20

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4190.240+/-1245.601 χ^2/NDF : 33.2/25

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

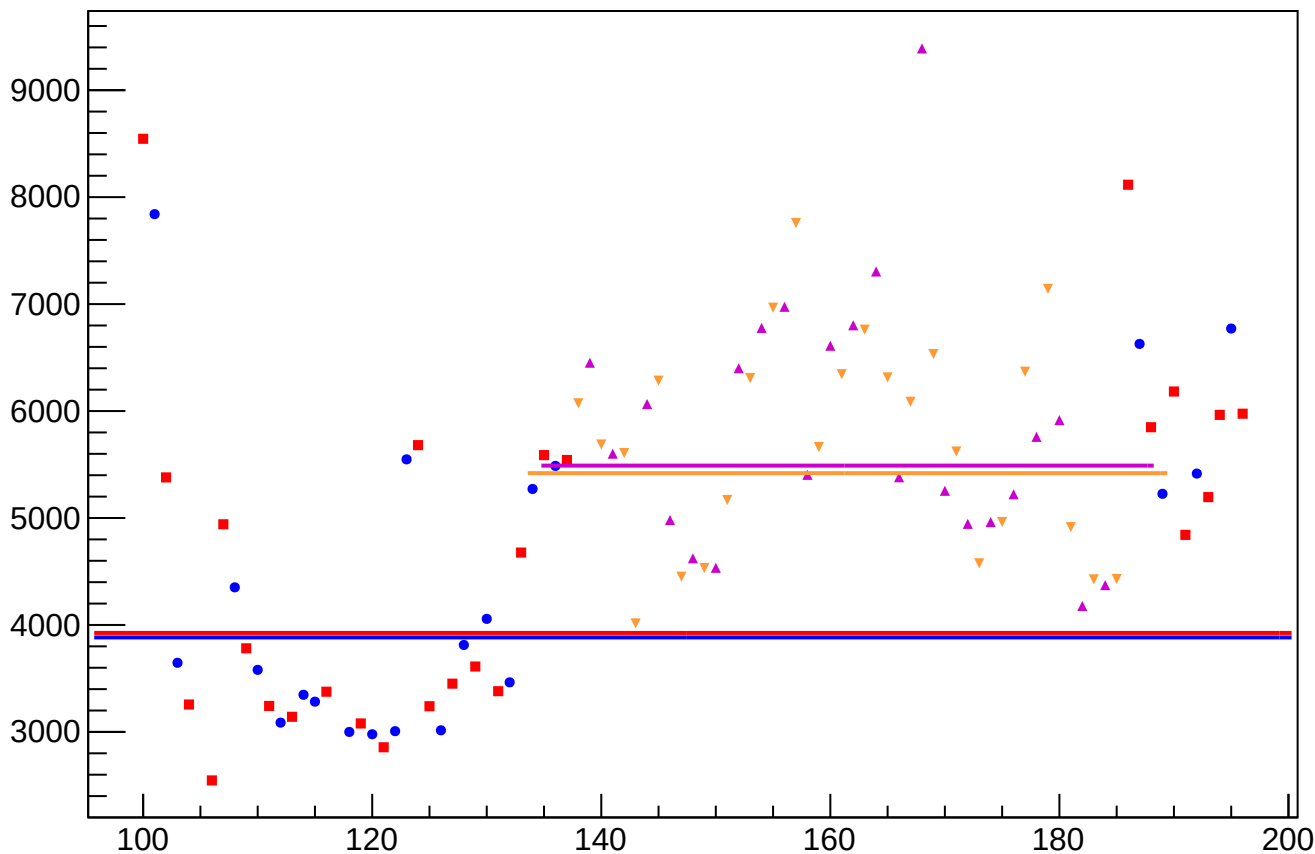
Right: 3578.830+/-918.009 χ^2/NDF : 53.8/46

In: 3004.987+/-952.952 χ^2/NDF : 35.6/43

Out: 3332.344+/-894.877 χ^2/NDF : 64.1/50

All: 3178.944+/-652.339 χ^2/NDF : 99.7/94

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3883.446 ± 0.960 $\chi^2/\text{NDF}: 1407567.4/20$

Left Out: 5419.305 ± 0.910 $\chi^2/\text{NDF}: 1109972.1/24$

Right Out: 3925.610 ± 0.871 $\chi^2/\text{NDF}: 1818213.7/25$

Left In: 5489.885 ± 0.946 $\chi^2/\text{NDF}: 1064353.3/22$

Left: 5453.227 ± 0.656 $\chi^2/\text{NDF}: 2177218.7/47$

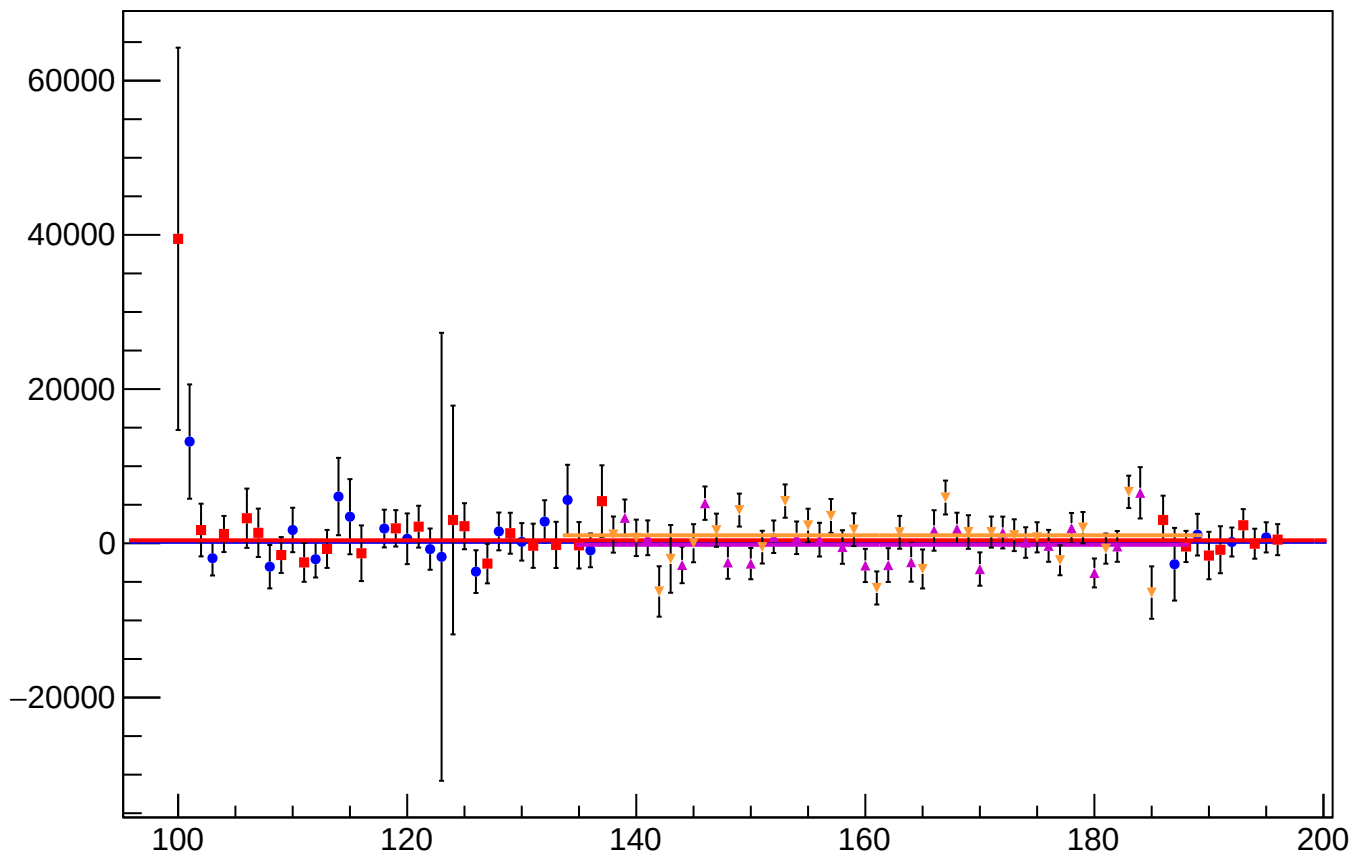
Right: 3906.587 ± 0.645 $\chi^2/\text{NDF}: 3226839.0/46$

In: 4699.081 ± 0.674 $\chi^2/\text{NDF}: 3892465.5/43$

Out: 4639.812 ± 0.629 $\chi^2/\text{NDF}: 4335195.0/50$

All: 4667.410 ± 0.460 $\chi^2/\text{NDF}: 8231794.6/94$

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 189.026 $\pm$ 608.090 χ^2 /NDF: 14.3/20

Left Out: 1041.262 $\pm$ 446.249 χ^2 /NDF:48.6/24

Right Out: 390.414 $\pm$ 539.390 χ^2 /NDF: 12.3/25

Left In: -191.966 $\pm$ 453.055 χ^2 /NDF:30.0/22

Left: 433.980 $\pm$ 317.925 χ^2 /NDF: 82.3/47

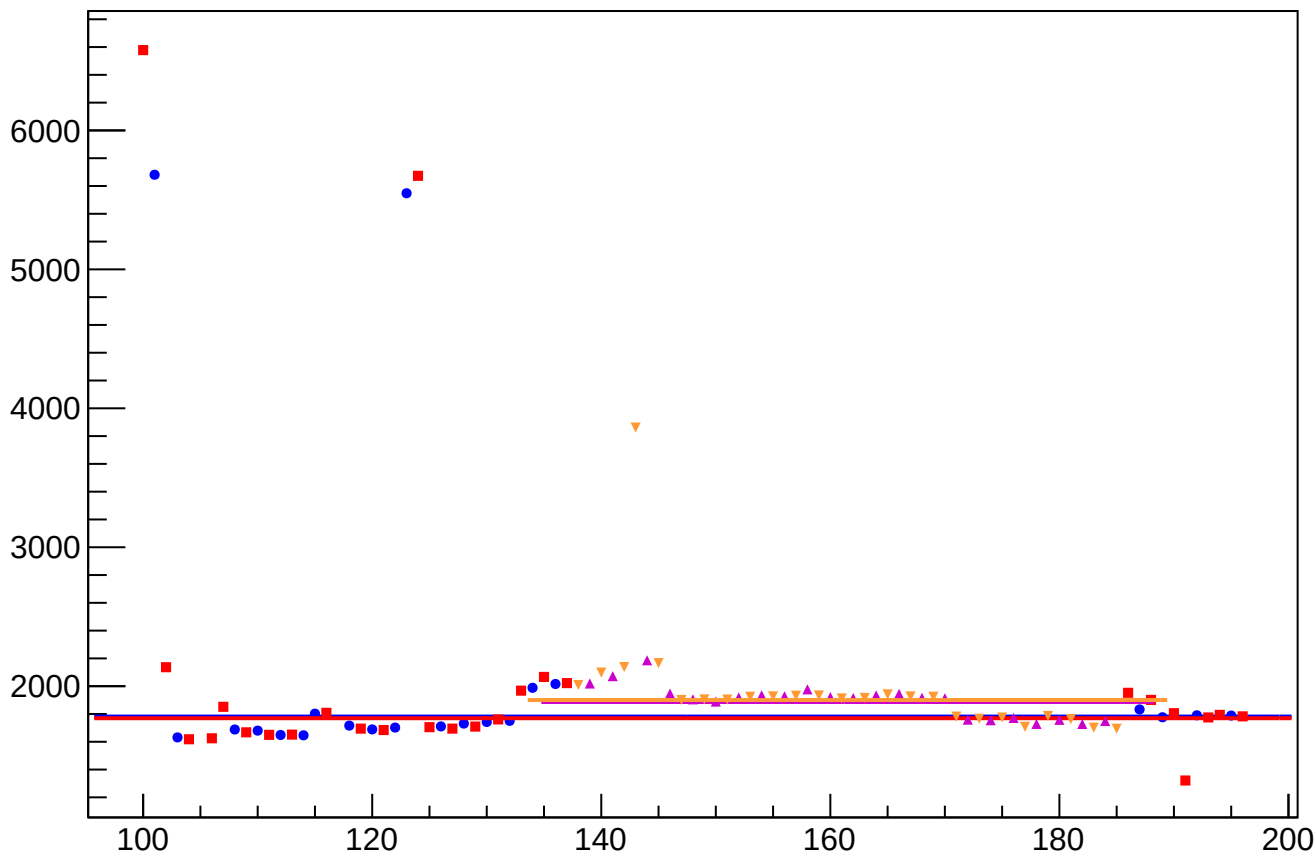
Right: 301.734 $\pm$ 403.519 χ^2 /NDF: 26.7/46

In: -55.971 $\pm$ 363.306 χ^2 /NDF:44.6/43

Out: 776.797 $\pm$ 343.833 χ^2 /NDF:61.7/50

All: 383.329 $\pm$ 249.727 χ^2 /NDF: 109.0/94

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1781.282 $\pm$ 0.430 χ^2 /NDF: 643338.8/20

Left Out: 1900.295 $\pm$ 0.316 χ^2 /NDF: 537892.5/24

Right Out: 1769.536 $\pm$ 0.380 χ^2 /NDF: 364790.5/25

Left In: 1886.378 $\pm$ 0.320 χ^2 /NDF: 123520.6/22

Left: 1893.441 $\pm$ 0.225 χ^2 /NDF: 662371.1/47

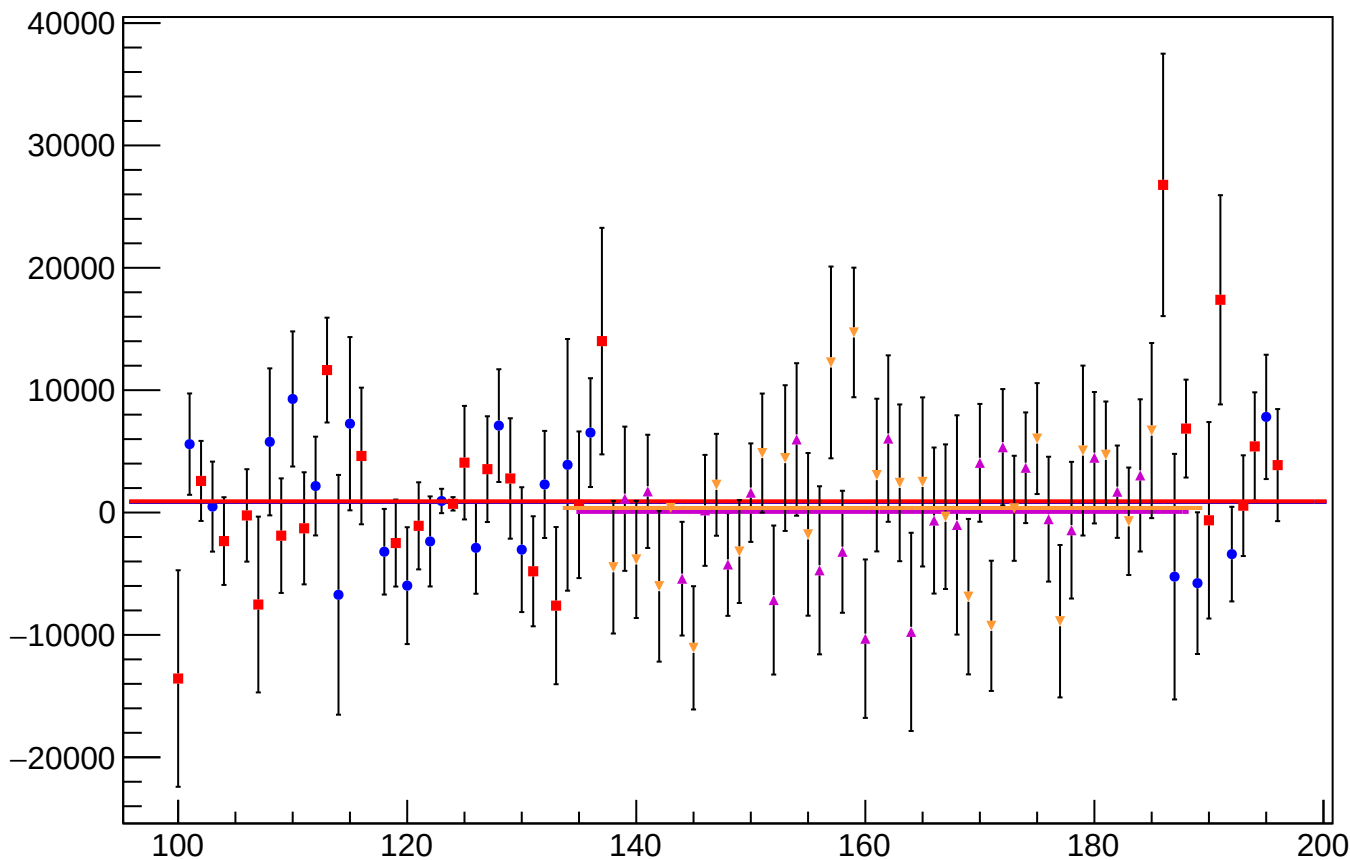
Right: 1774.684 $\pm$ 0.285 χ^2 /NDF: 1008548.5/46

In: 1848.863 $\pm$ 0.257 χ^2 /NDF: 805274.9/43

Out: 1846.892 $\pm$ 0.243 χ^2 /NDF: 972813.2/50

All: 1847.822 $\pm$ 0.176 χ^2 /NDF: 1778119.3/94

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 860.456+/-724.036 χ^2/NDF : 20.0/20

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 917.212+/-473.902 χ^2/NDF : 33.5/25

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

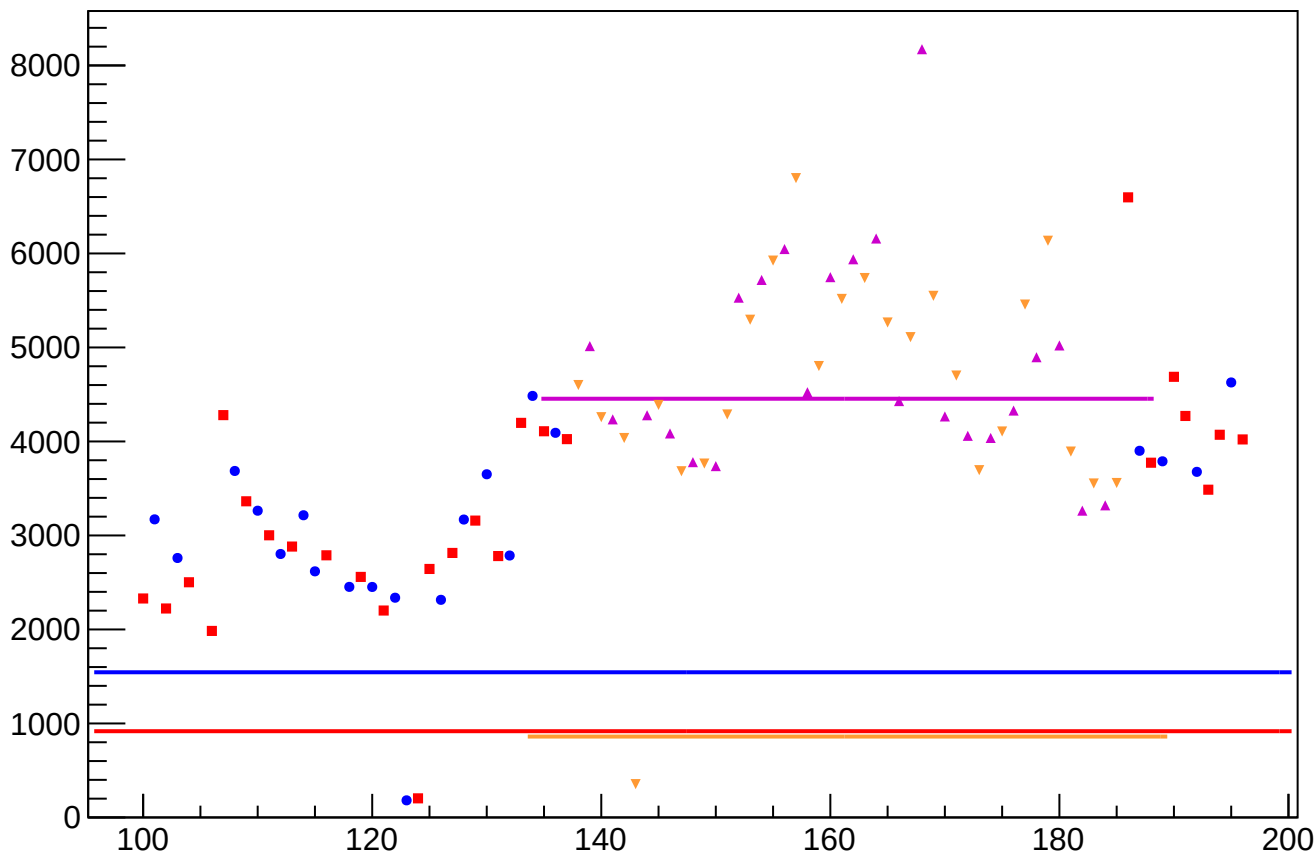
Right: 900.190+/-396.518 χ^2/NDF : 53.5/46

In: 613.249+/-603.086 χ^2/NDF :34.9/43

Out: 587.554+/-297.442 χ^2/NDF :65.1/50

All: 592.581+/-266.762 χ^2/NDF : 100.0/94

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1544.523+/-0.512 χ^2/NDF : 8732444.3/20

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 917.555+/-0.335 χ^2/NDF : 14825853.9/25

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

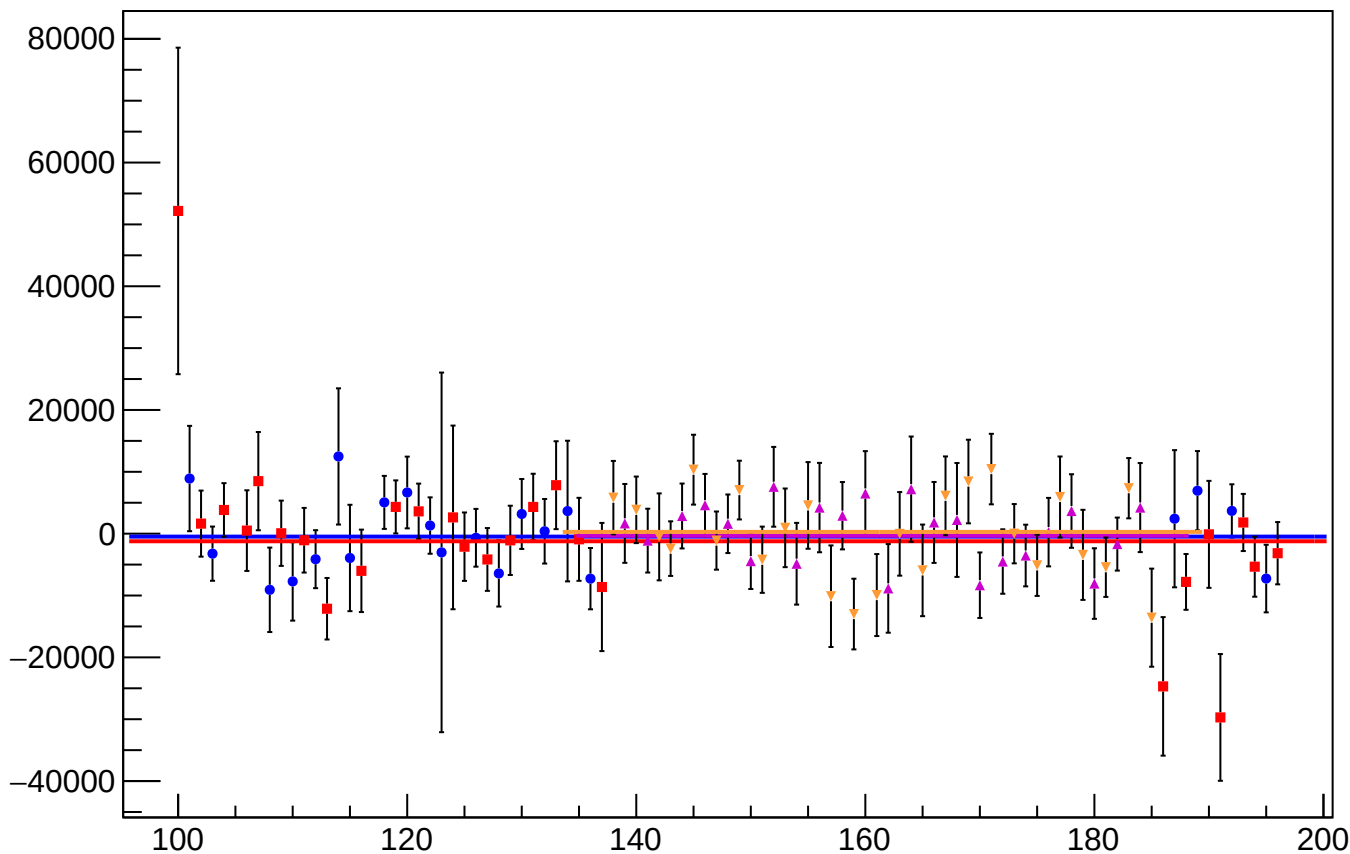
Right: 1105.595+/-0.280 χ^2/NDF : 24608200.9/46

In: 2435.508+/-0.426 χ^2/NDF : 19973536.6/43

Out: 883.003+/-0.210 χ^2/NDF : 41183501.6/50

All: 1186.758+/-0.189 χ^2/NDF : 71817585.3/95

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -477.683 ± 1259.742 $\chi^2/\text{NDF}: 17.6/20$

Left Out: 288.508 ± 1155.419 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -1227.287 ± 1138.676 $\chi^2/\text{NDF}: 34.7/25$

Left In: -332.488 ± 1196.011 $\chi^2/\text{NDF}: 14.7/22$

Left: -11.273 ± 830.984 $\chi^2/\text{NDF}: 47.2/47$

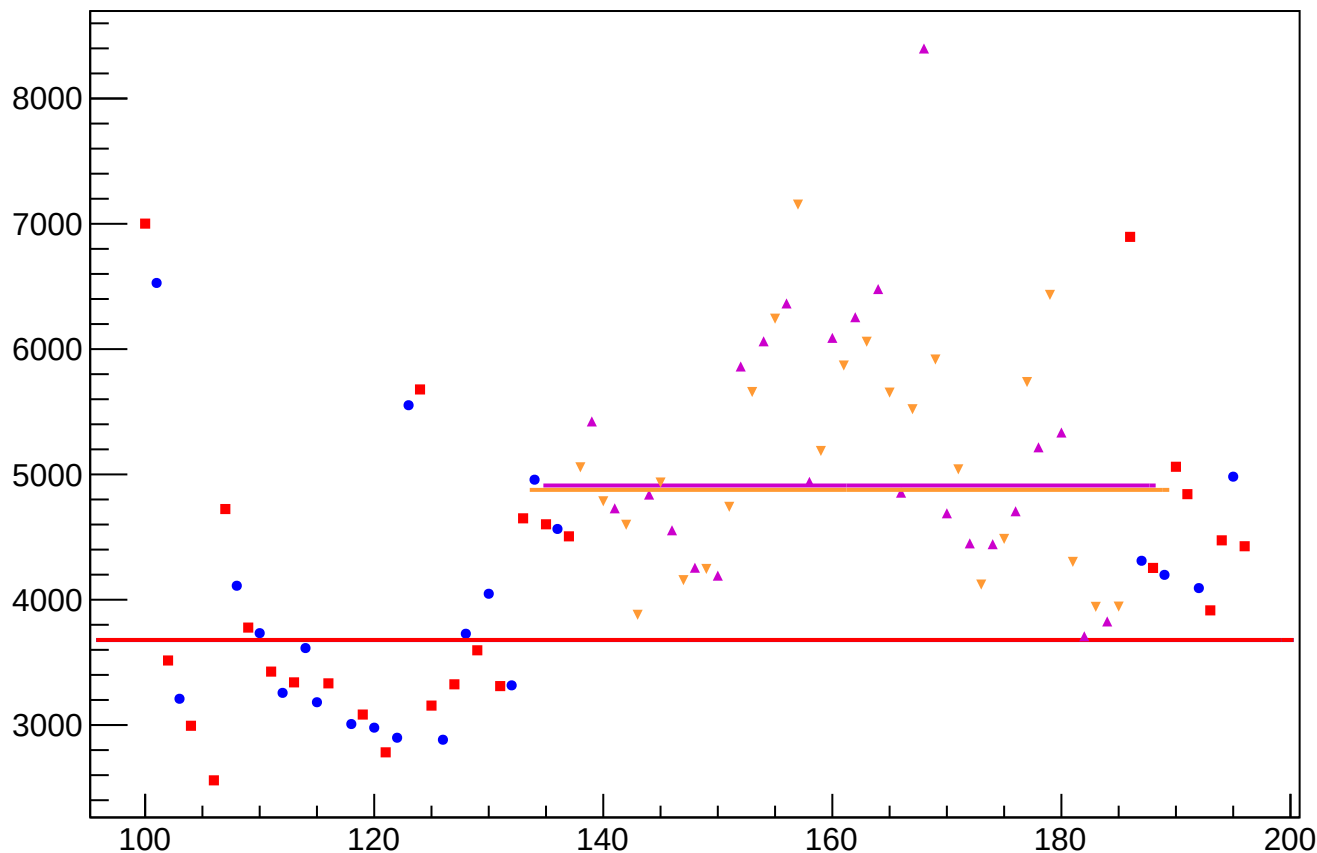
Right: -890.227 ± 844.733 $\chi^2/\text{NDF}: 52.5/46$

In: -401.320 ± 867.363 $\chi^2/\text{NDF}: 32.3/43$

Out: -480.452 ± 811.020 $\chi^2/\text{NDF}: 68.0/50$

All: -443.539 ± 592.396 $\chi^2/\text{NDF}: 100.3/94$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3678.123 $\pm$ 0.891 χ^2/NDF : 740489.1/20

Left Out: 4876.564 $\pm$ 0.817 χ^2/NDF : 972528.1/24

Right Out: 3678.990 $\pm$ 0.797 χ^2/NDF : 892044.6/25

Left In: 4911.546 $\pm$ 0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2/NDF : 2016577.8/47

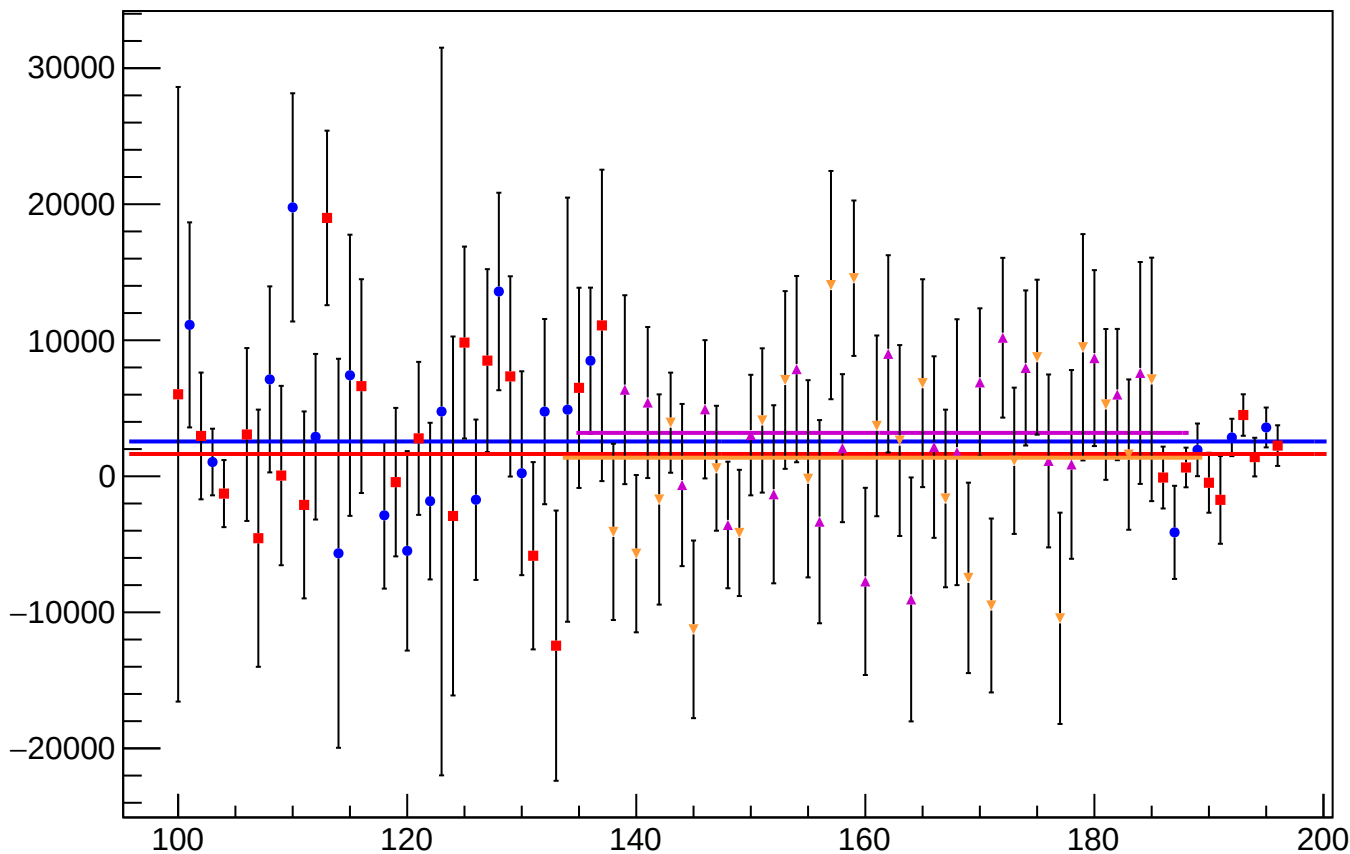
Right: 3678.604 $\pm$ 0.594 χ^2/NDF : 1632534.2/46

In: 4326.820 $\pm$ 0.613 χ^2/NDF : 2792034.0/43

Out: 4263.299 $\pm$ 0.571 χ^2/NDF : 2964848.3/50

All: 4292.775 $\pm$ 0.418 χ^2/NDF : 5762631.4/94

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2559.322+/-741.060 χ^2/NDF : 18.4/20

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1639.733+/-591.185 χ^2/NDF : 24.5/25

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

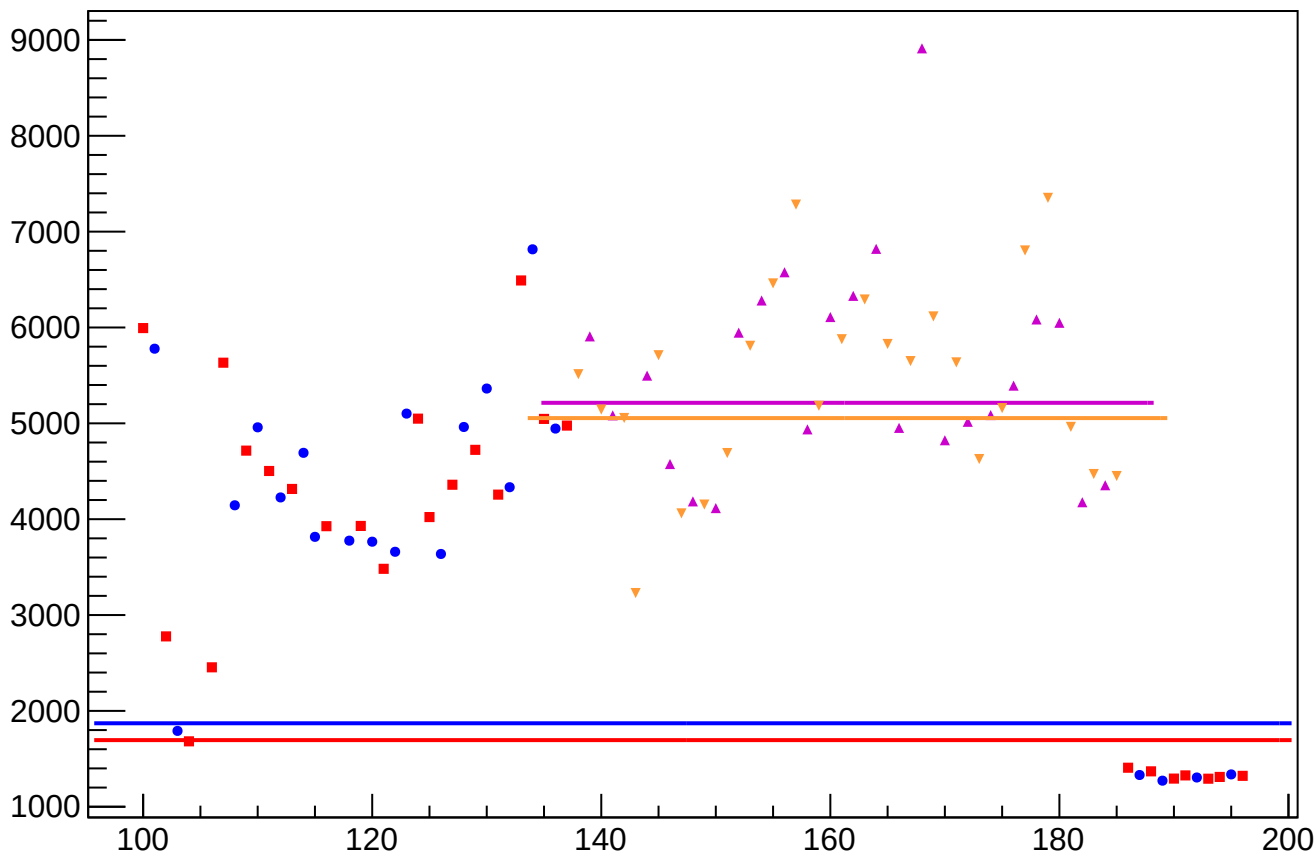
Right: 1997.369+/-462.143 χ^2/NDF : 43.8/46

In: 2719.806+/-640.065 χ^2/NDF : 32.6/43

Out: 1586.540+/-530.859 χ^2/NDF : 52.5/50

All: 2048.391+/-408.610 χ^2/NDF : 86.9/94

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1870.800+/-0.524 χ^2/NDF : 5026906.3/20

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1695.076+/-0.417 χ^2/NDF : 5308905.2/25

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

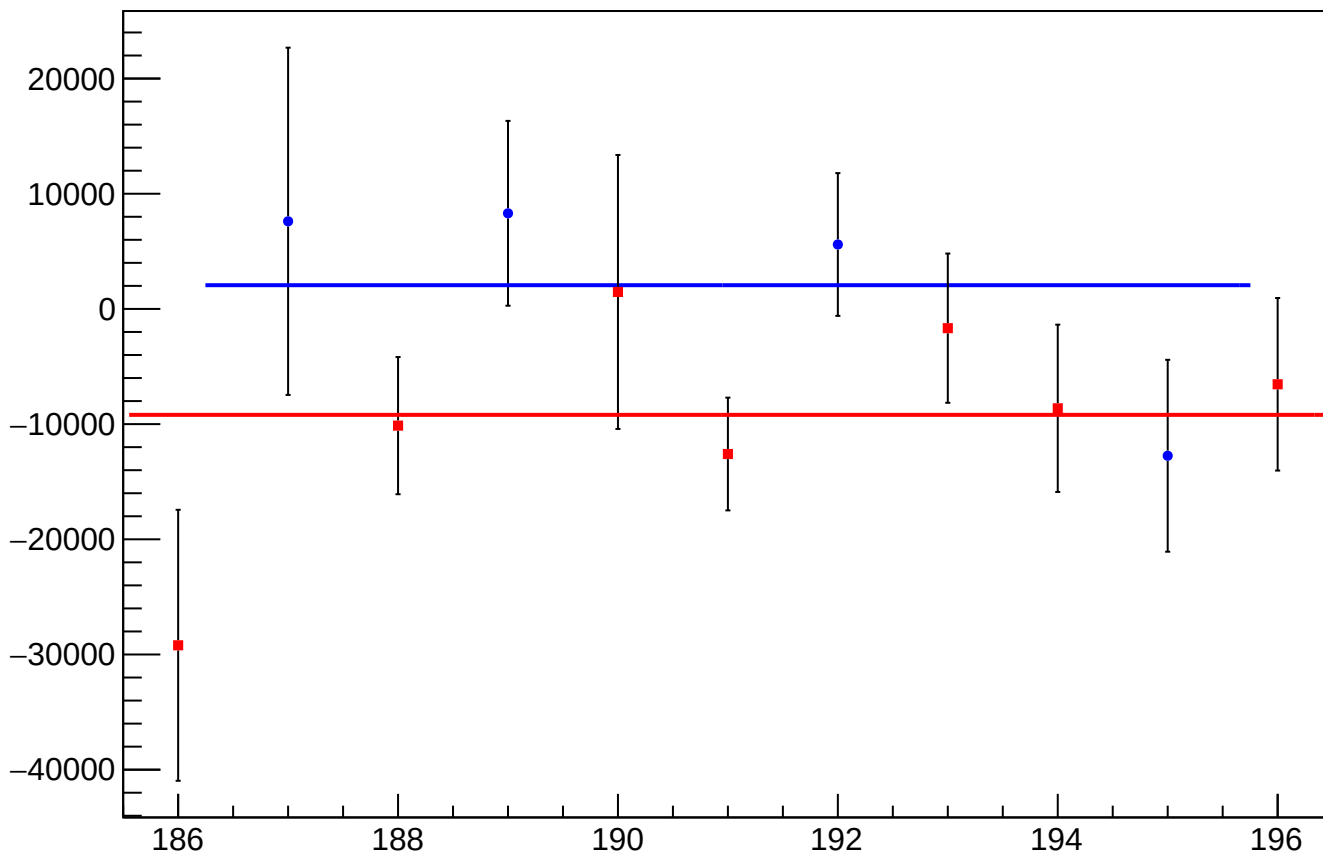
Right: 1763.275+/-0.326 χ^2/NDF : 10404624.2/46

In: 2719.979+/-0.453 χ^2/NDF : 16419083.3/43

Out: 2343.974+/-0.375 χ^2/NDF : 19263765.0/50

All: 2496.964+/-0.289 χ^2/NDF : 36092218.8/95

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2060.112+/-4069.269 χ^2/NDF : 4.2/3

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: -9196.671+/-2627.266 χ^2/NDF : 5.7/6

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

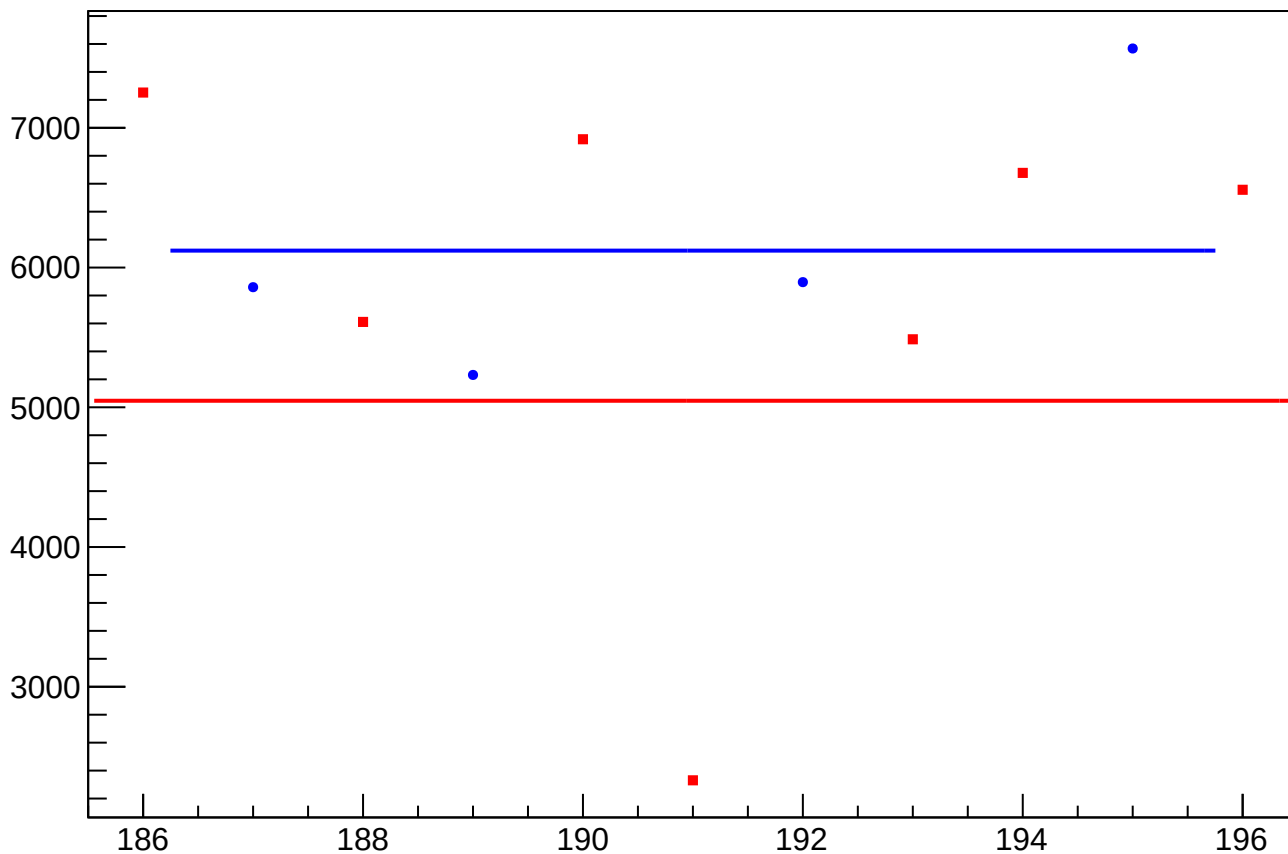
Right: -5884.849+/-2207.205 χ^2/NDF : 15.3/10

In: 2060.112+/-4069.269 χ^2/NDF :4.2/3

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: -5884.849+/-2207.205 χ^2/NDF : 15.3/10

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6121.215+/-2.877 χ^2/NDF : 88160.9/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5046.749+/-1.858 χ^2/NDF : 945301.3/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

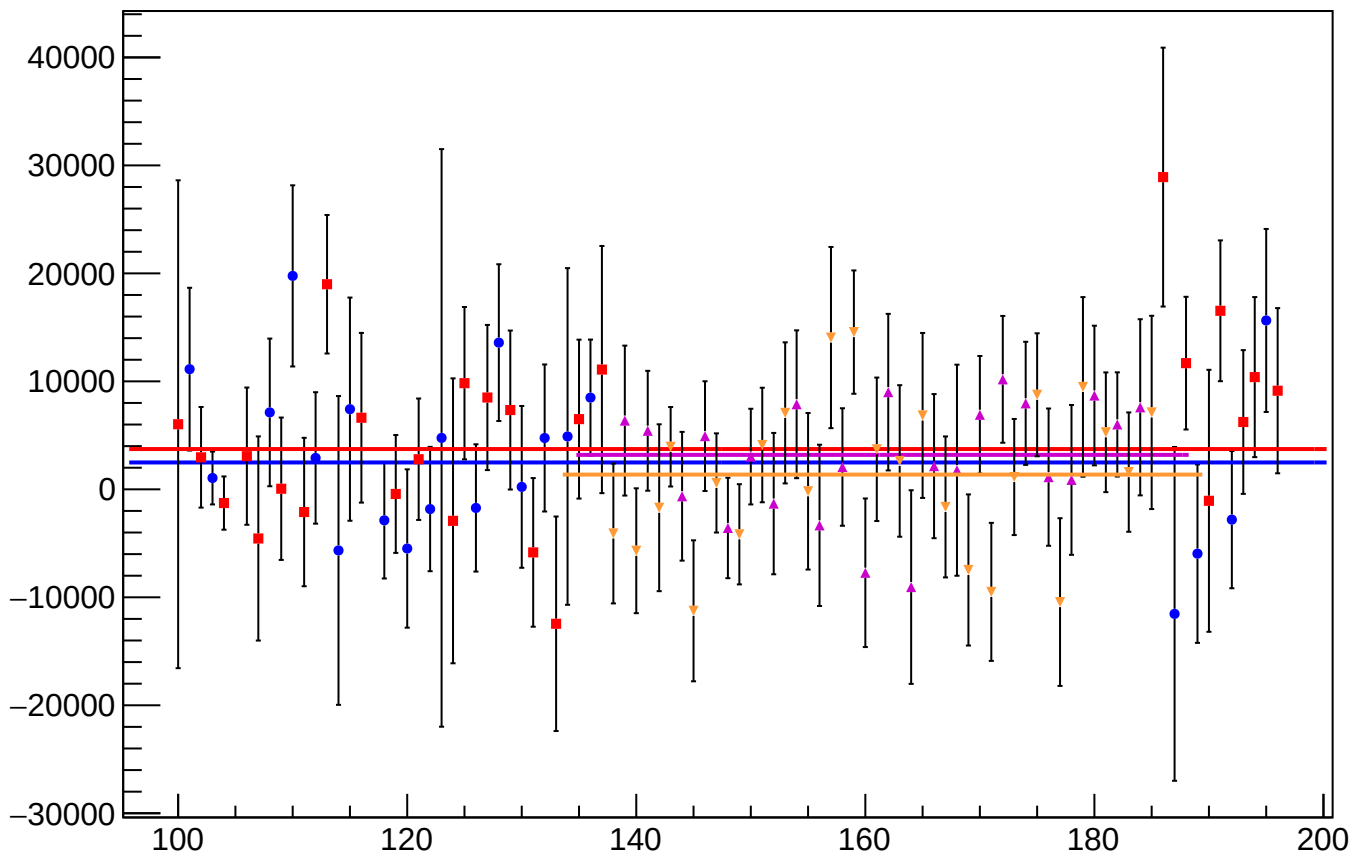
Right: 5362.864+/-1.561 χ^2/NDF : 1131877.0/10

In: 6121.215+/-2.877 χ^2/NDF : 88160.9/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5362.864+/-1.561 χ^2/NDF : 1131877.0/10

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2488.402+/-1374.540 χ^2/NDF : 19.0/20

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3730.677+/-1246.357 χ^2/NDF : 30.8/25

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

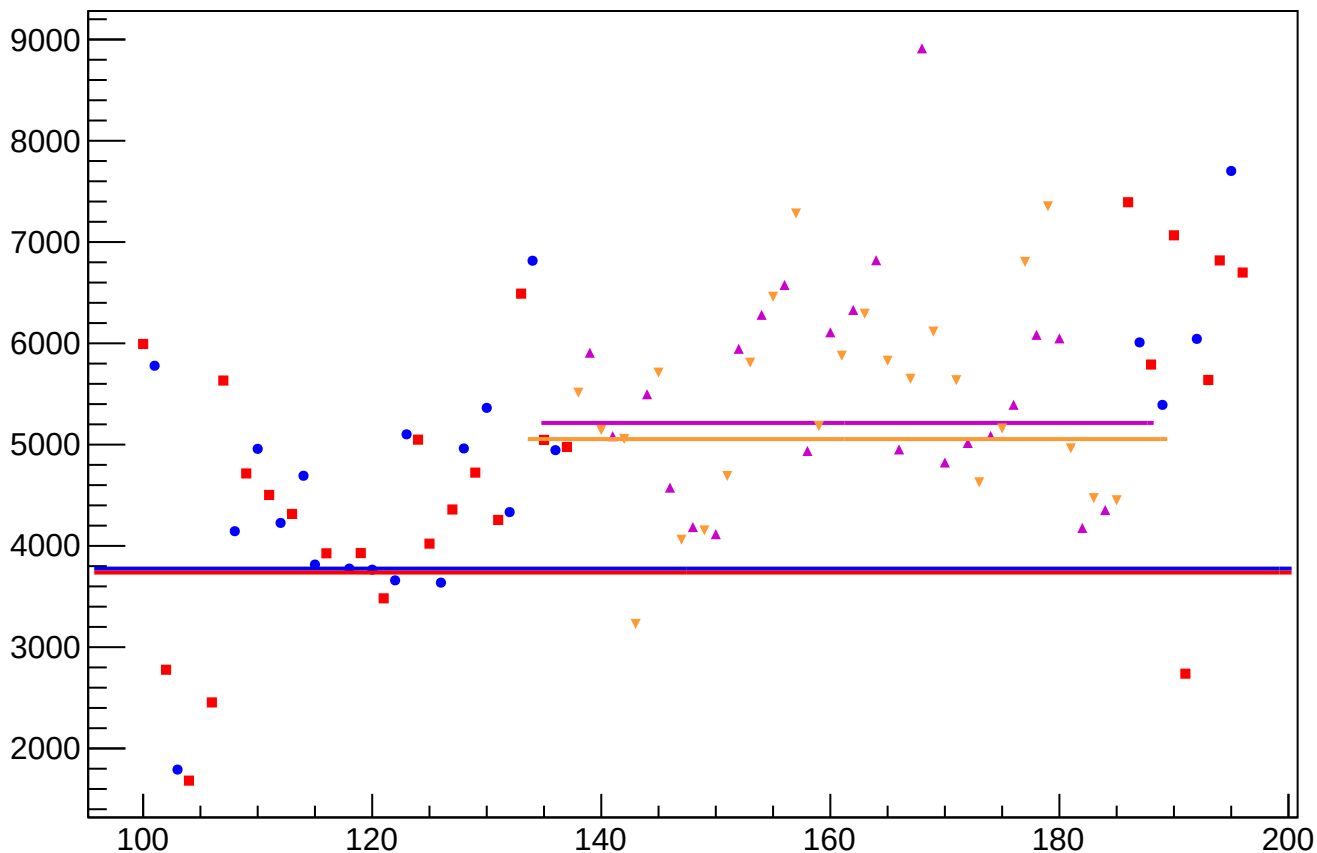
Right: 3170.152+/-923.307 χ^2/NDF : 50.2/46

In: 2867.512+/-932.805 χ^2/NDF : 33.1/43

Out: 2509.223+/-866.786 χ^2/NDF : 60.6/50

All: 2675.241+/-634.968 χ^2/NDF : 93.8/94

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3775.691 ± 0.972 $\chi^2/\text{NDF}: 2656368.7/20$

Left Out: 5054.711 ± 0.853 $\chi^2/\text{NDF}: 1437224.7/24$

Right Out: 3736.723 ± 0.875 $\chi^2/\text{NDF}: 3524244.8/25$

Left In: 5214.120 ± 0.898 $\chi^2/\text{NDF}: 1052501.5/22$

Left: 5130.314 ± 0.618 $\chi^2/\text{NDF}: 2506291.2/47$

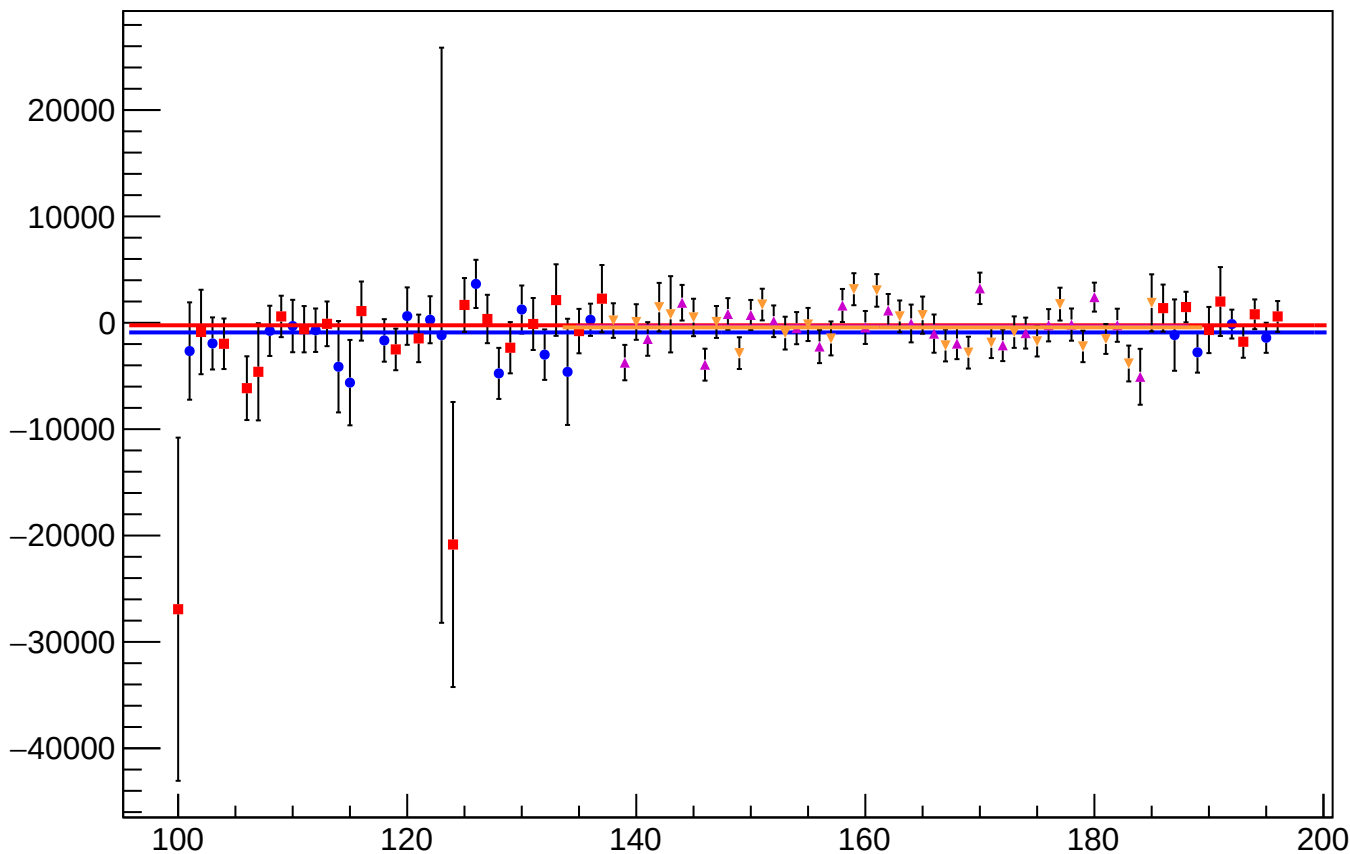
Right: 3754.162 ± 0.650 $\chi^2/\text{NDF}: 6181501.5/46$

In: 4551.651 ± 0.660 $\chi^2/\text{NDF}: 4890448.0/43$

Out: 4412.328 ± 0.611 $\chi^2/\text{NDF}: 6125190.3/50$

All: 4476.634 ± 0.448 $\chi^2/\text{NDF}: 11039661.9/95$

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -906.099+/-491.985 χ^2/NDF : 14.0/20

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -235.441+/-437.224 χ^2/NDF : 19.6/25

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

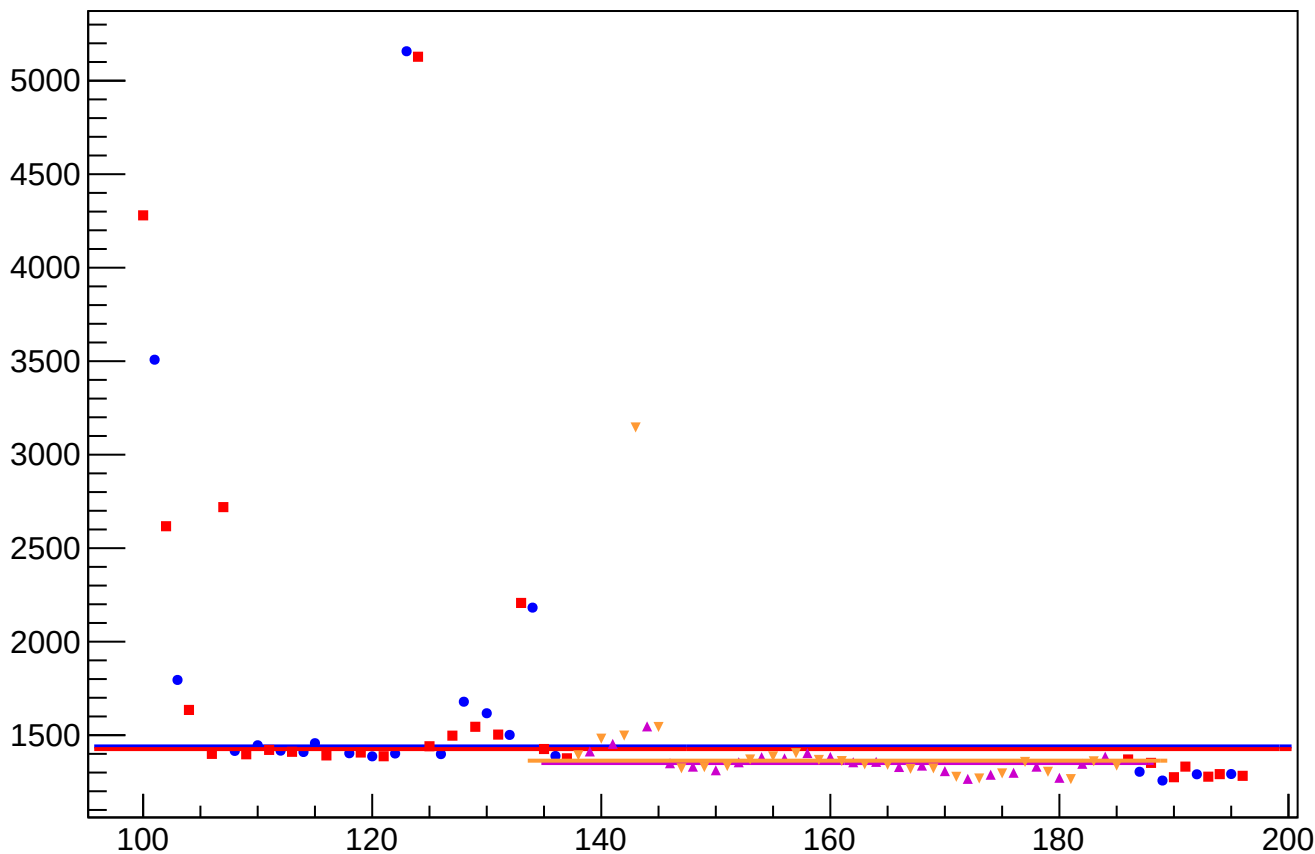
Right: -531.383+/-326.817 χ^2/NDF : 34.6/46

In: -514.123+/-270.807 χ^2/NDF :48.7/43

Out: -363.101+/-258.511 χ^2/NDF :52.8/50

All: -435.105+/-186.991 χ^2/NDF : 101.6/94

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1439.755 $\pm$ 0.348 χ^2 /NDF: 639410.1/20

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1425.473 $\pm$ 0.309 χ^2 /NDF: 765442.6/25

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

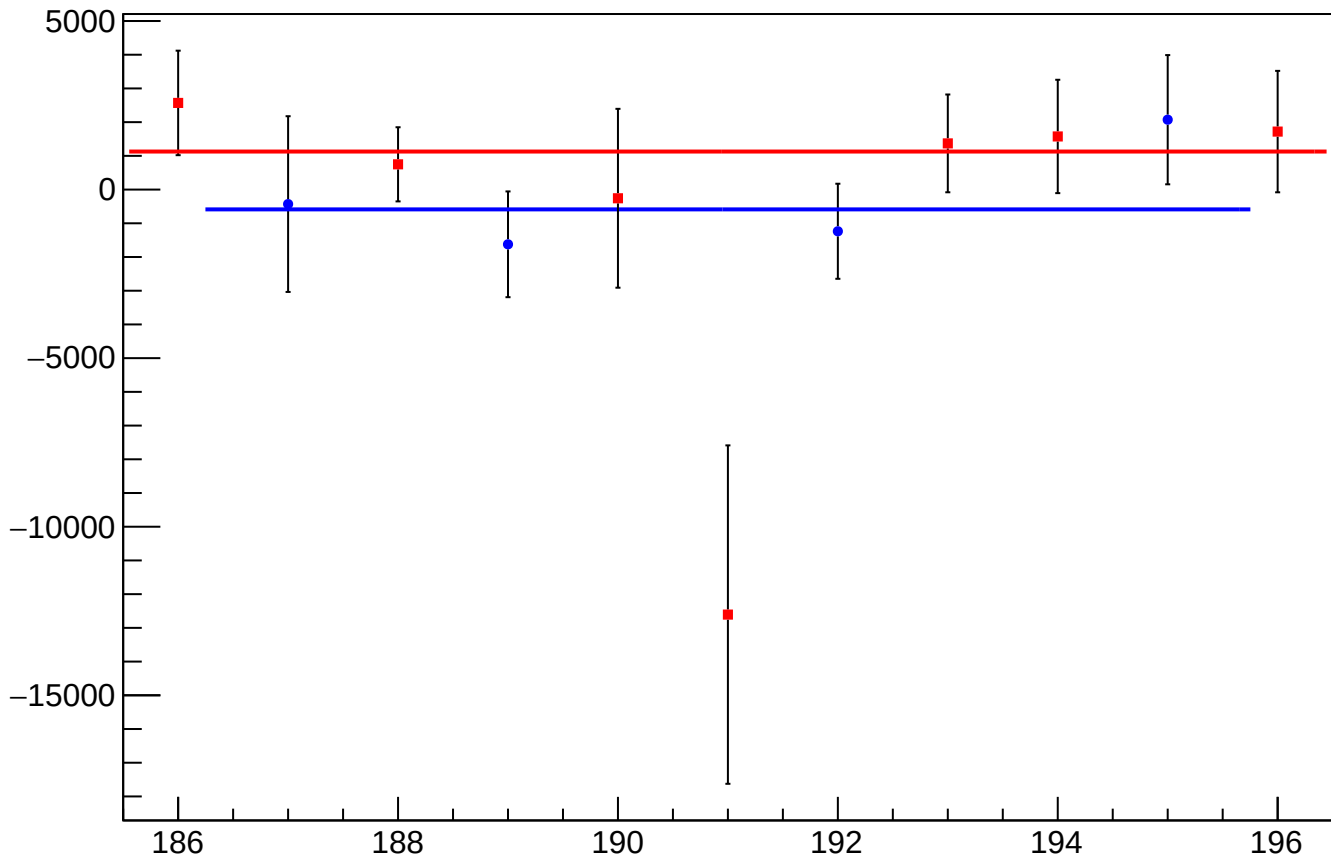
Right: 1431.775 $\pm$ 0.231 χ^2 /NDF: 1405794.5/46

In: 1377.828 $\pm$ 0.191 χ^2 /NDF: 752017.1/43

Out: 1385.204 $\pm$ 0.183 χ^2 /NDF: 1366752.3/50

All: 1381.687 $\pm$ 0.132 χ^2 /NDF: 2119545.8/94

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -587.493+/-867.430 χ^2/NDF : 2.6/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1128.405+/-624.653 χ^2/NDF : 9.0/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

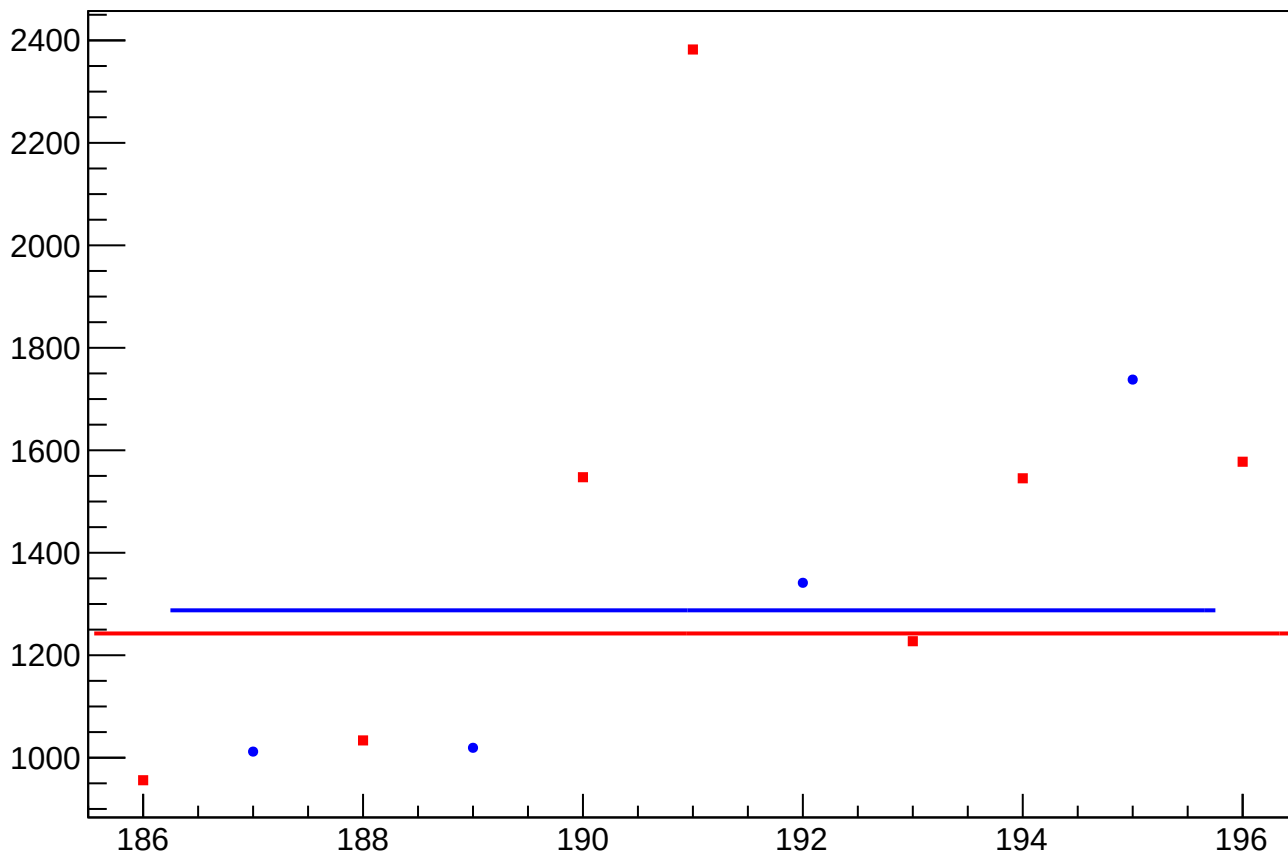
Right: 542.450+/-506.899 χ^2/NDF : 14.1/10

In: -587.493+/-867.430 χ^2/NDF : 2.6/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 542.450+/-506.899 χ^2/NDF : 14.1/10

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1287.662 $\pm$ 0.613 χ^2 /NDF: 194234.0/3

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 1242.503 $\pm$ 0.442 χ^2 /NDF: 404353.1/6

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

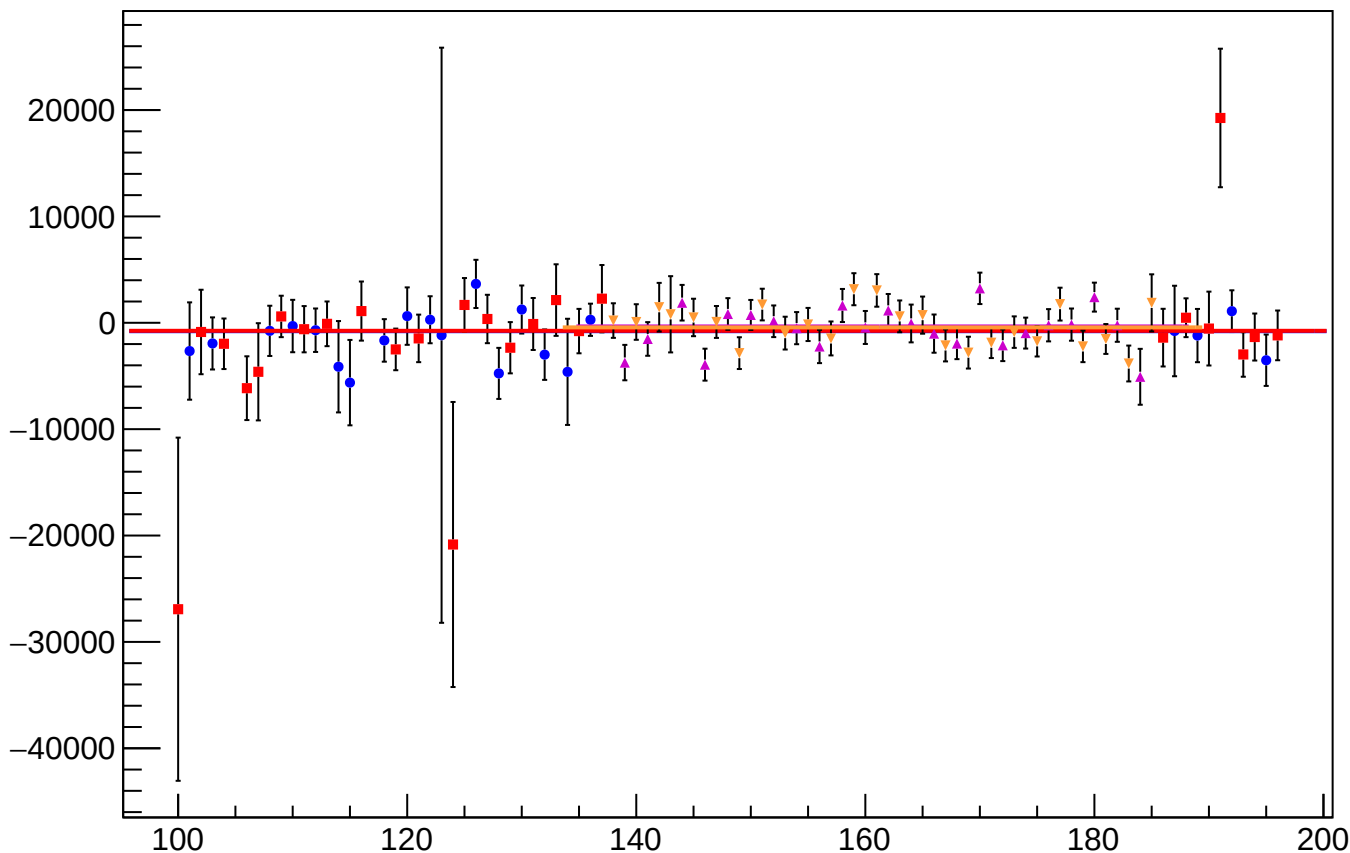
Right: 1257.924 $\pm$ 0.358 χ^2 /NDF: 602156.7/10

In: 1287.662 $\pm$ 0.613 χ^2 /NDF:194234.0/3

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 1257.924 $\pm$ 0.358 χ^2 /NDF: 602156.7/10

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -790.557+/-544.507 χ^2/NDF : 14.8/20

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -753.398+/-502.034 χ^2/NDF : 25.5/25

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

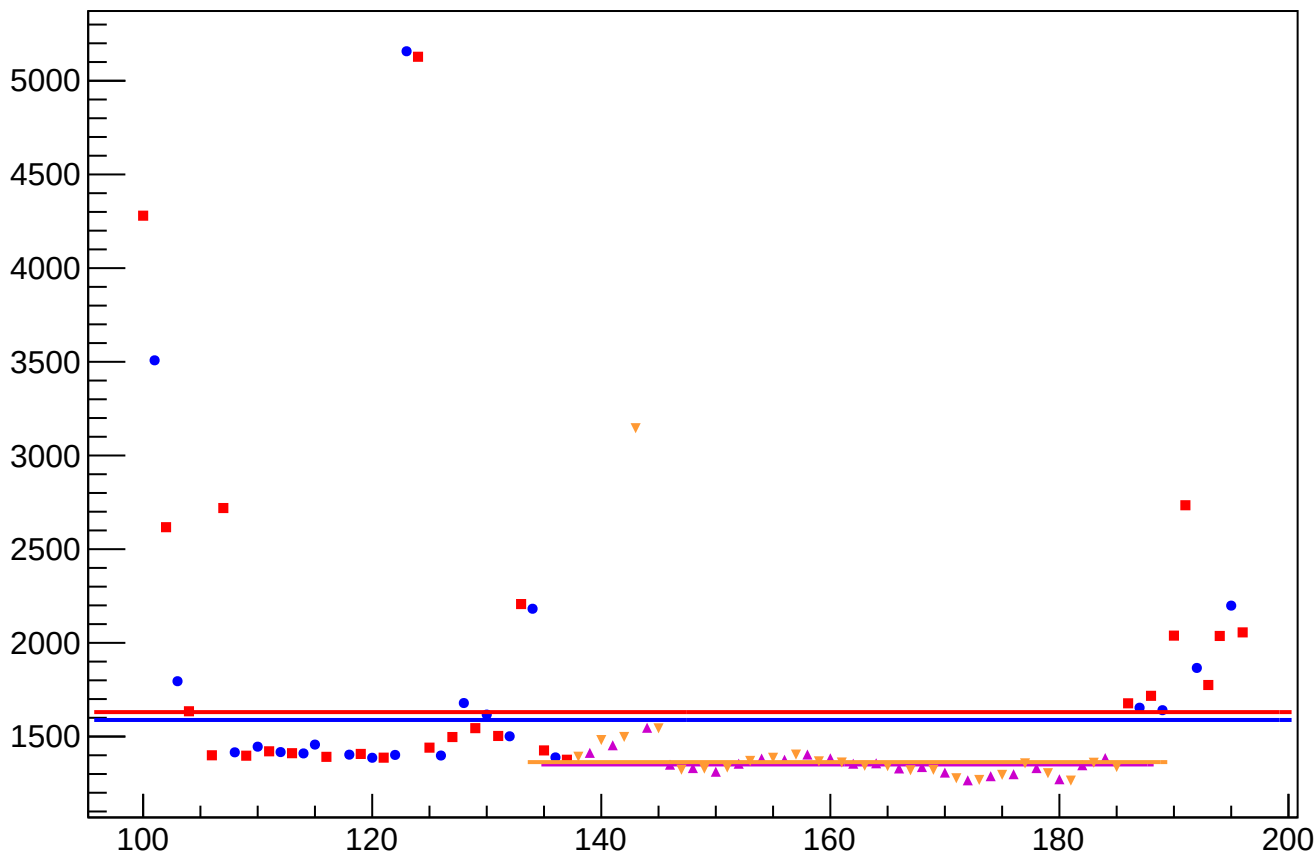
Right: -770.472+/-369.095 χ^2/NDF : 40.3/46

In: -460.769+/-278.670 χ^2/NDF : 49.0/43

Out: -524.874+/-270.168 χ^2/NDF : 58.9/50

All: -493.815+/-193.973 χ^2/NDF : 107.9/94

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1588.417+/-0.385 χ^2/NDF : 733044.2/20

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1630.424+/-0.355 χ^2/NDF : 923333.0/25

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

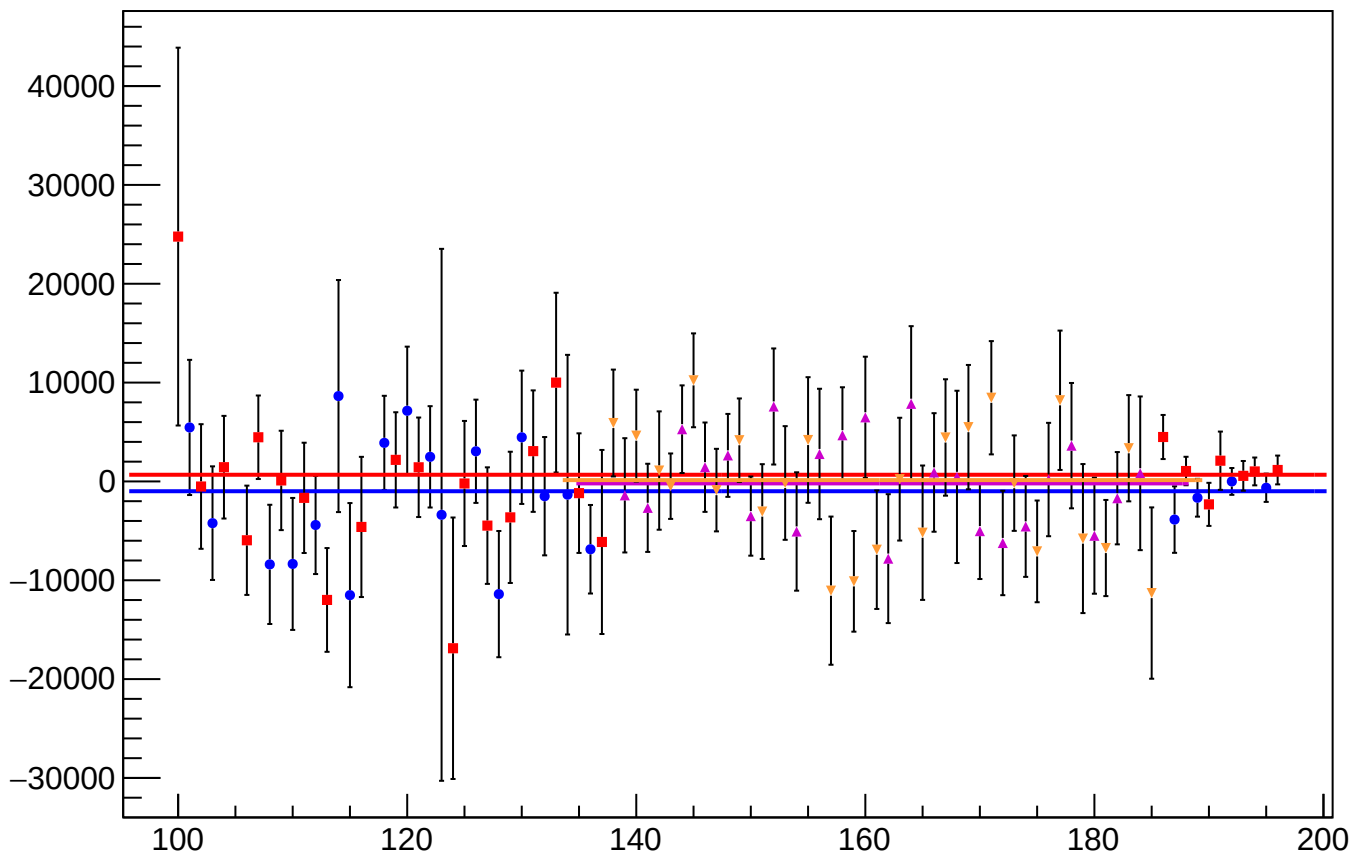
Right: 1611.123+/-0.261 χ^2/NDF : 1662811.3/46

In: 1413.118+/-0.197 χ^2/NDF : 1081045.0/43

Out: 1440.846+/-0.191 χ^2/NDF : 1900023.9/50

All: 1427.411+/-0.137 χ^2/NDF : 2991276.1/94

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -991.644+/-739.650 χ^2/NDF : 16.5/20

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: 675.253+/-582.225 χ^2/NDF : 20.7/25

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

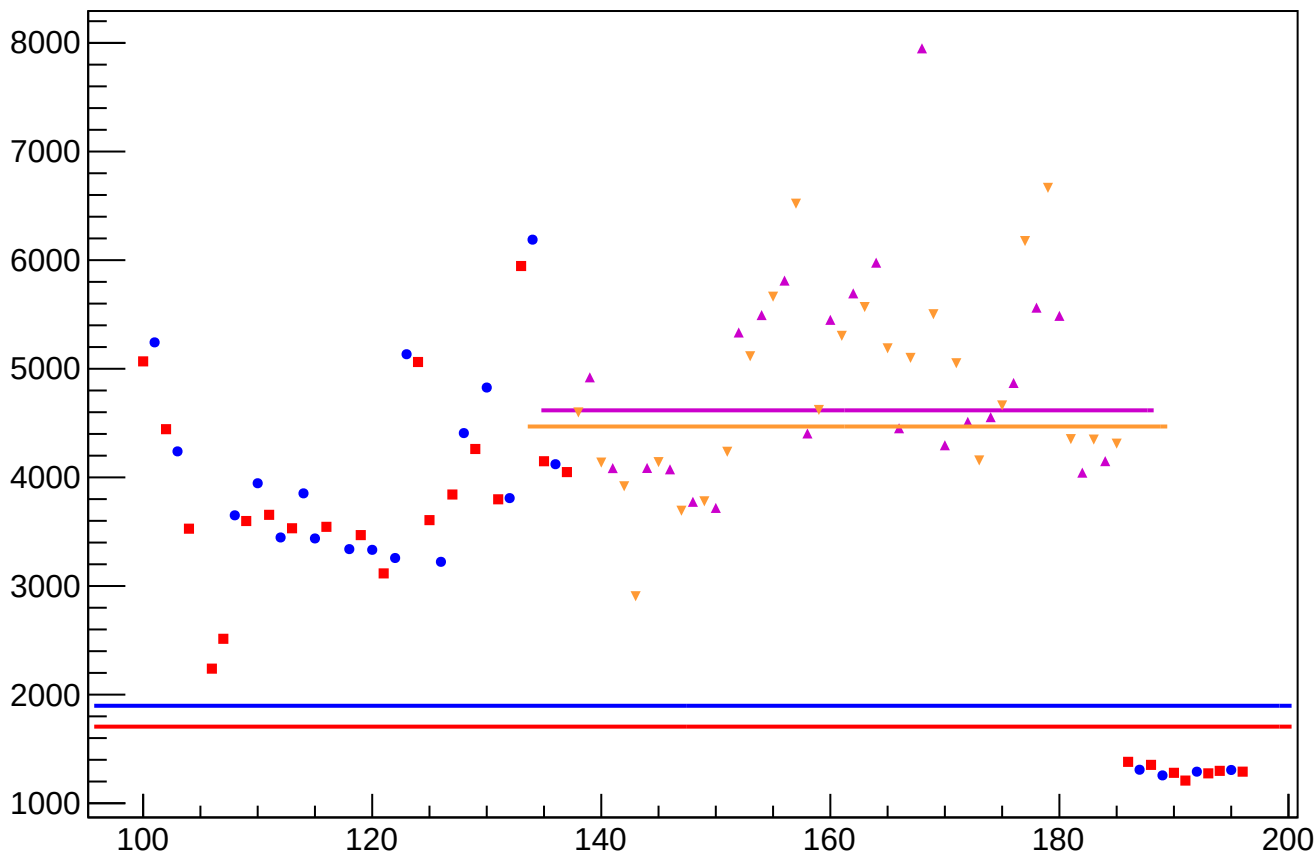
Right: 37.543+/-457.492 χ^2/NDF : 40.3/46

In: -752.332+/-617.788 χ^2/NDF : 31.6/43

Out: 550.381+/-510.927 χ^2/NDF : 49.0/50

All: 21.264+/-393.724 χ^2/NDF : 83.2/94

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1897.372+/-0.523 χ^2/NDF : 4648683.8/20

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 1705.361+/-0.411 χ^2/NDF : 4888301.8/25

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

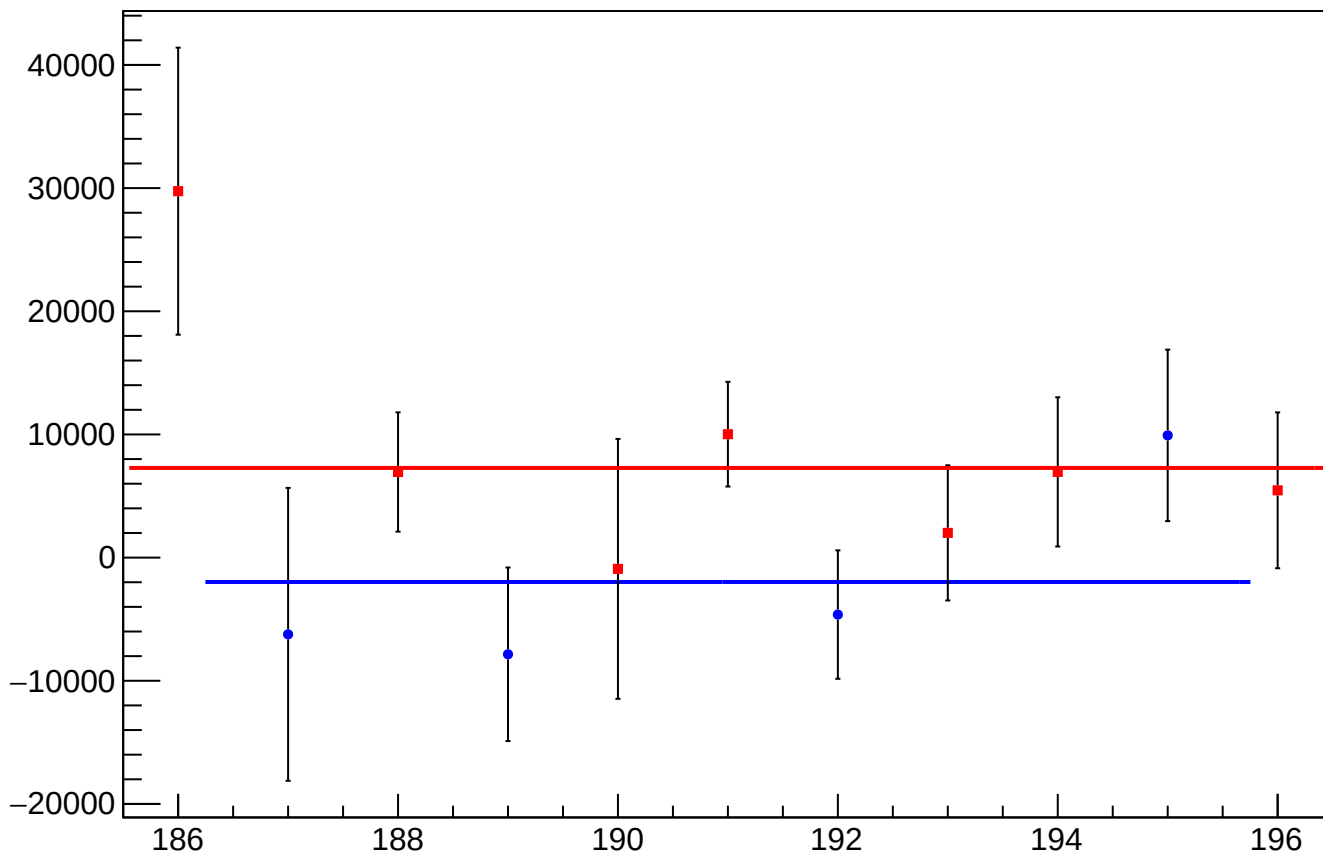
Right: 1778.671+/-0.323 χ^2/NDF : 9620308.5/46

In: 2719.778+/-0.437 χ^2/NDF :13825882.1/43

Out: 2339.061+/-0.361 χ^2/NDF :16633758.3/50

All: 2493.464+/-0.278 χ^2/NDF : 30911151.6/95

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1978.305+/-3436.980 χ^2/NDF : 4.0/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 7281.797+/-2237.138 χ^2/NDF : 5.8/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

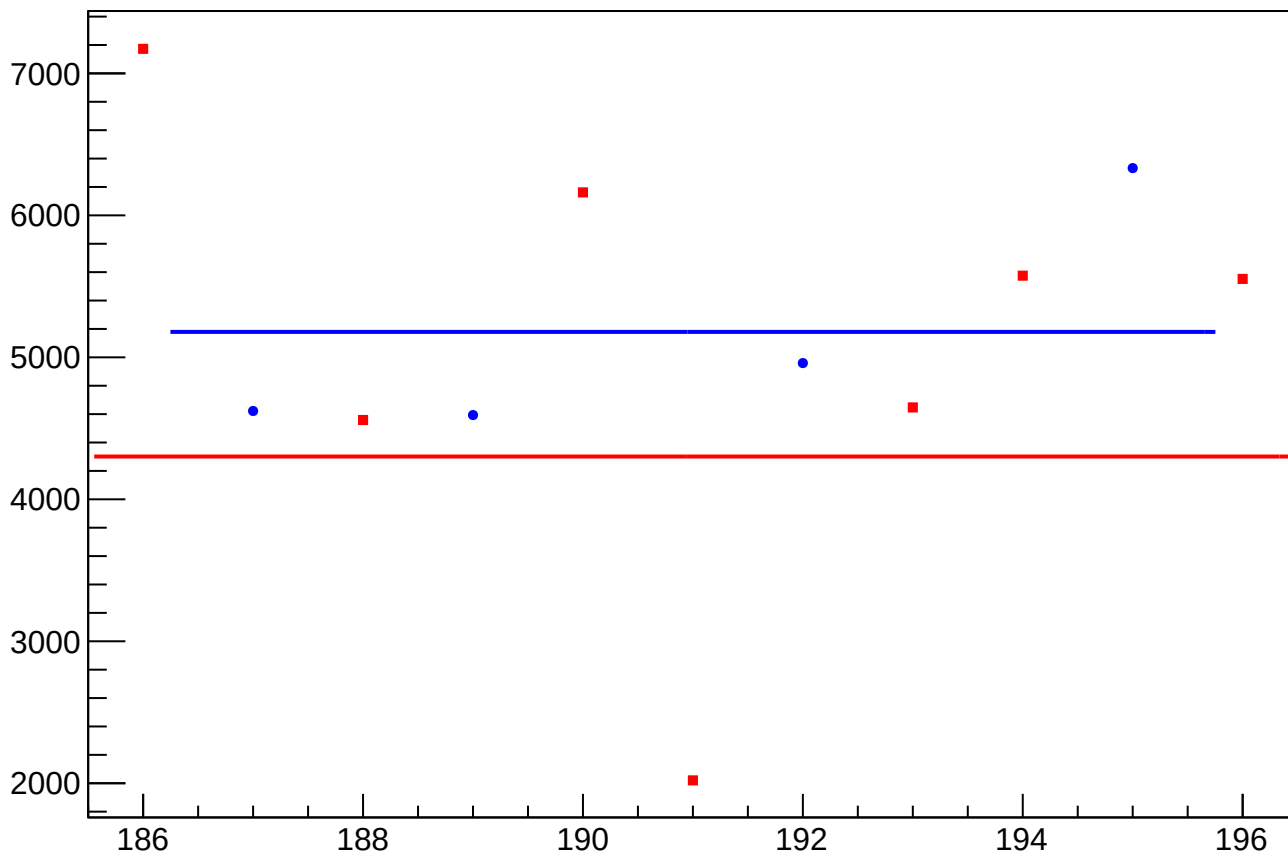
Right: 4526.065+/-1874.941 χ^2/NDF : 14.9/10

In: -1978.305+/-3436.980 χ^2/NDF : 4.0/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4526.065+/-1874.941 χ^2/NDF : 14.9/10

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5179.175+/-2.430 χ^2/NDF : 76720.0/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4301.388+/-1.582 χ^2/NDF : 940102.6/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

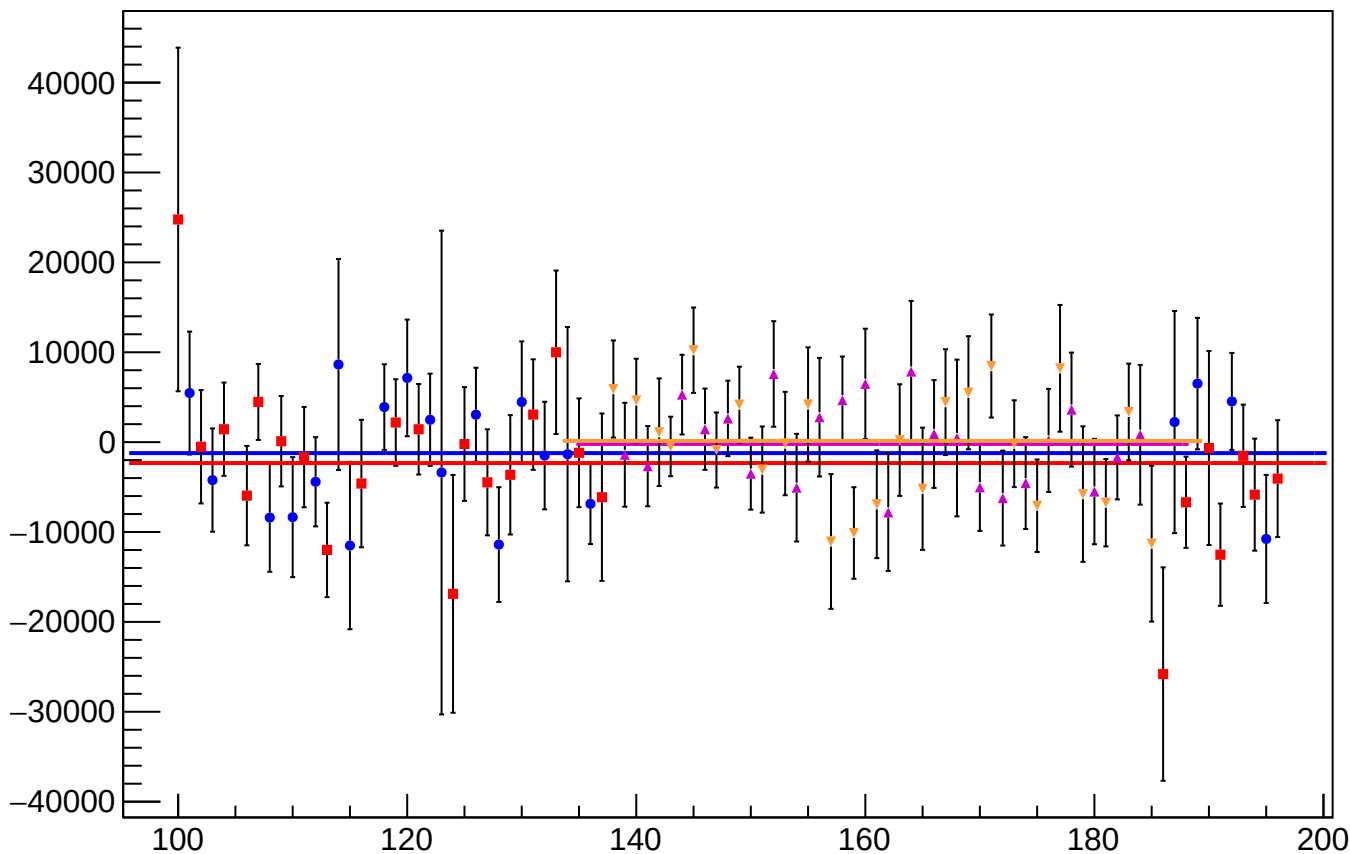
Right: 4562.610+/-1.326 χ^2/NDF : 1108454.0/10

In: 5179.175+/-2.430 χ^2/NDF : 76720.0/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4562.610+/-1.326 χ^2/NDF : 1108454.0/10

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1220.248 ± 1395.533 $\chi^2/\text{NDF}: 19.1/20$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -2326.647 ± 1204.465 $\chi^2/\text{NDF}: 23.4/25$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

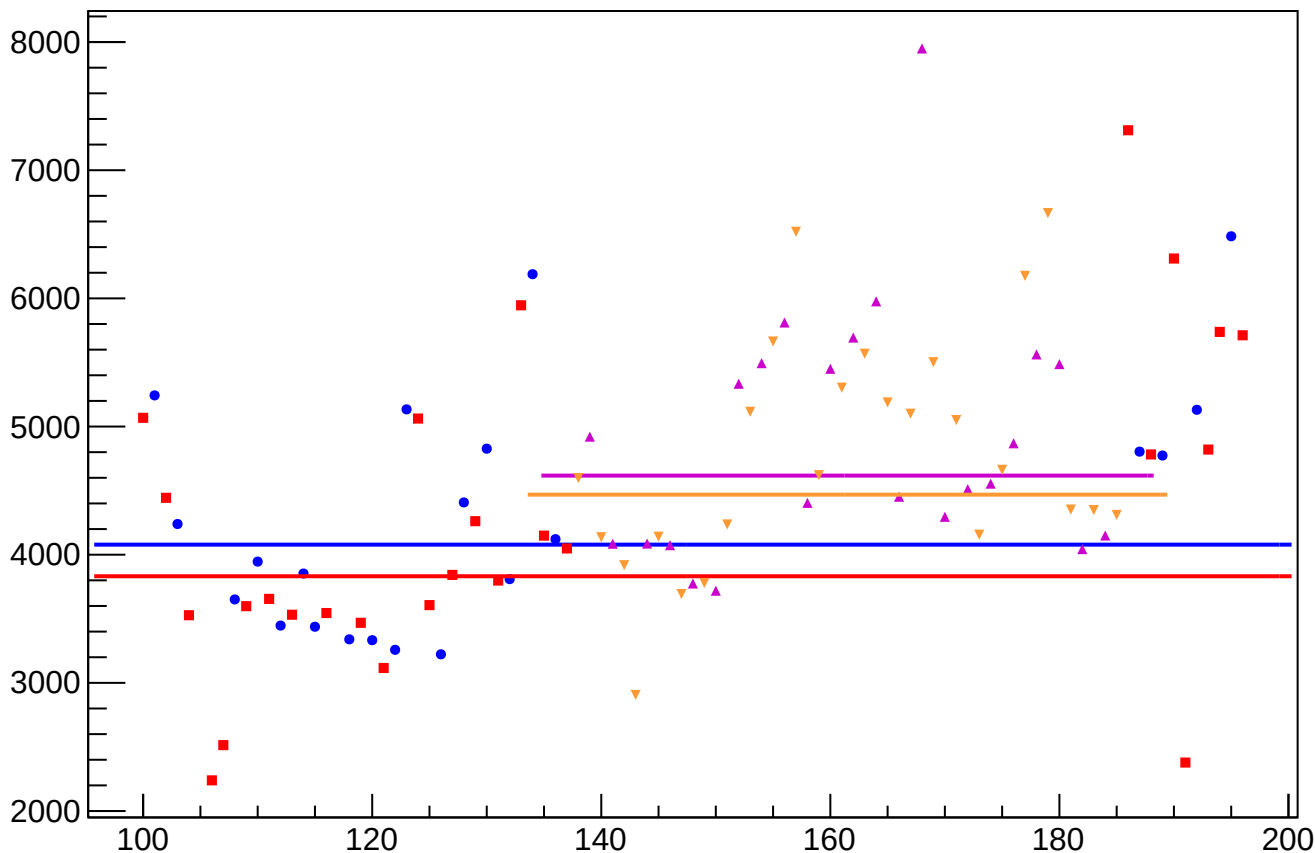
Right: -1854.318 ± 911.815 $\chi^2/\text{NDF}: 42.9/46$

In: -601.326 ± 875.138 $\chi^2/\text{NDF}: 34.2/43$

Out: -947.339 ± 798.070 $\chi^2/\text{NDF}: 53.9/50$

All: -790.236 ± 589.688 $\chi^2/\text{NDF}: 88.1/94$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4078.596 $\pm$ 0.987 χ^2 /NDF: 703531.6/20

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 3831.882 $\pm$ 0.846 χ^2 /NDF: 1547193.7/25

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

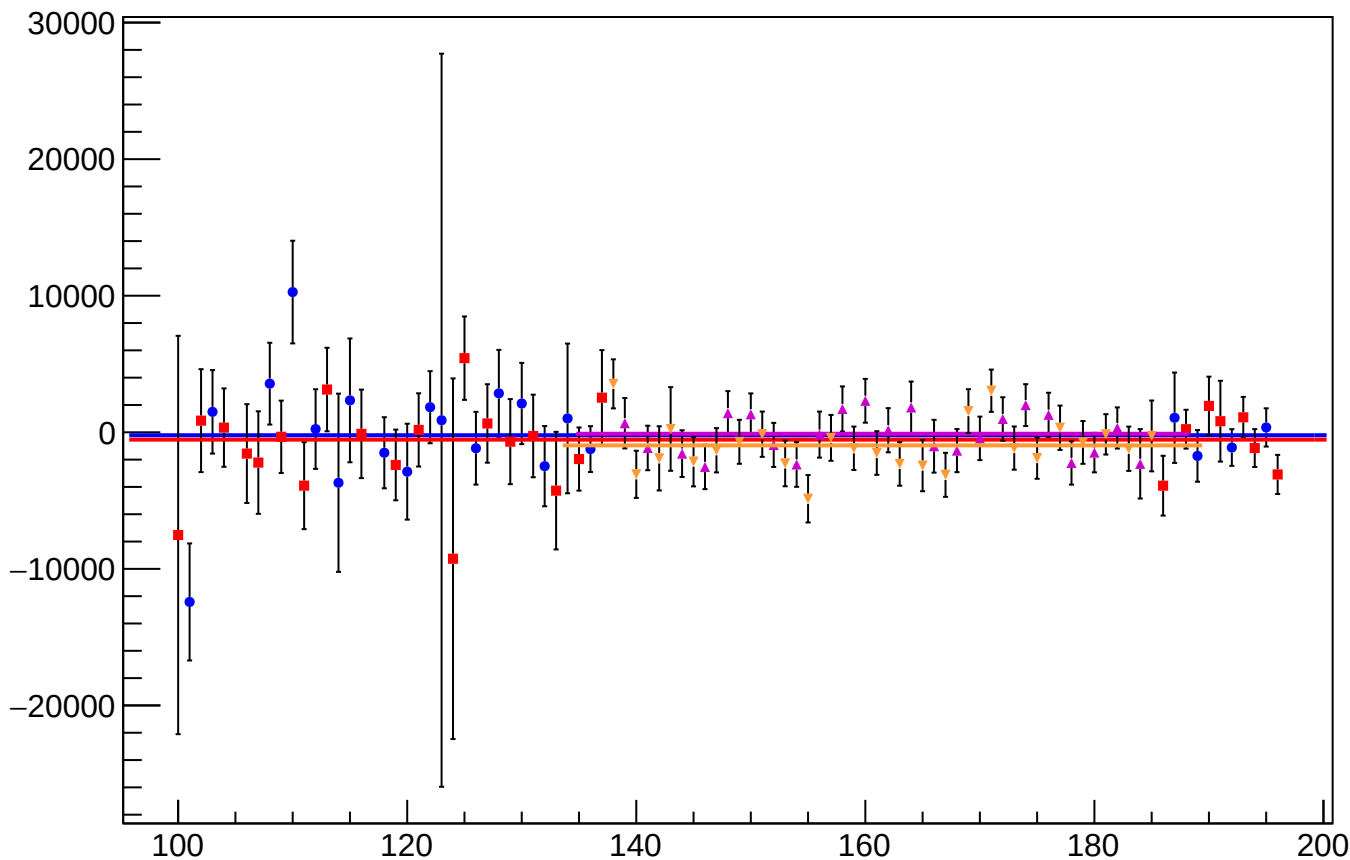
Right: 3936.366 $\pm$ 0.642 χ^2 /NDF: 2286762.7/46

In: 4405.443 $\pm$ 0.619 χ^2 /NDF: 1883956.2/43

Out: 4186.825 $\pm$ 0.563 χ^2 /NDF: 3243701.2/50

All: 4285.753 $\pm$ 0.416 χ^2 /NDF: 5195989.5/94

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -214.115+/-559.069 χ^2/NDF : 23.9/20

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -537.504+/-480.165 χ^2/NDF : 19.0/25

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

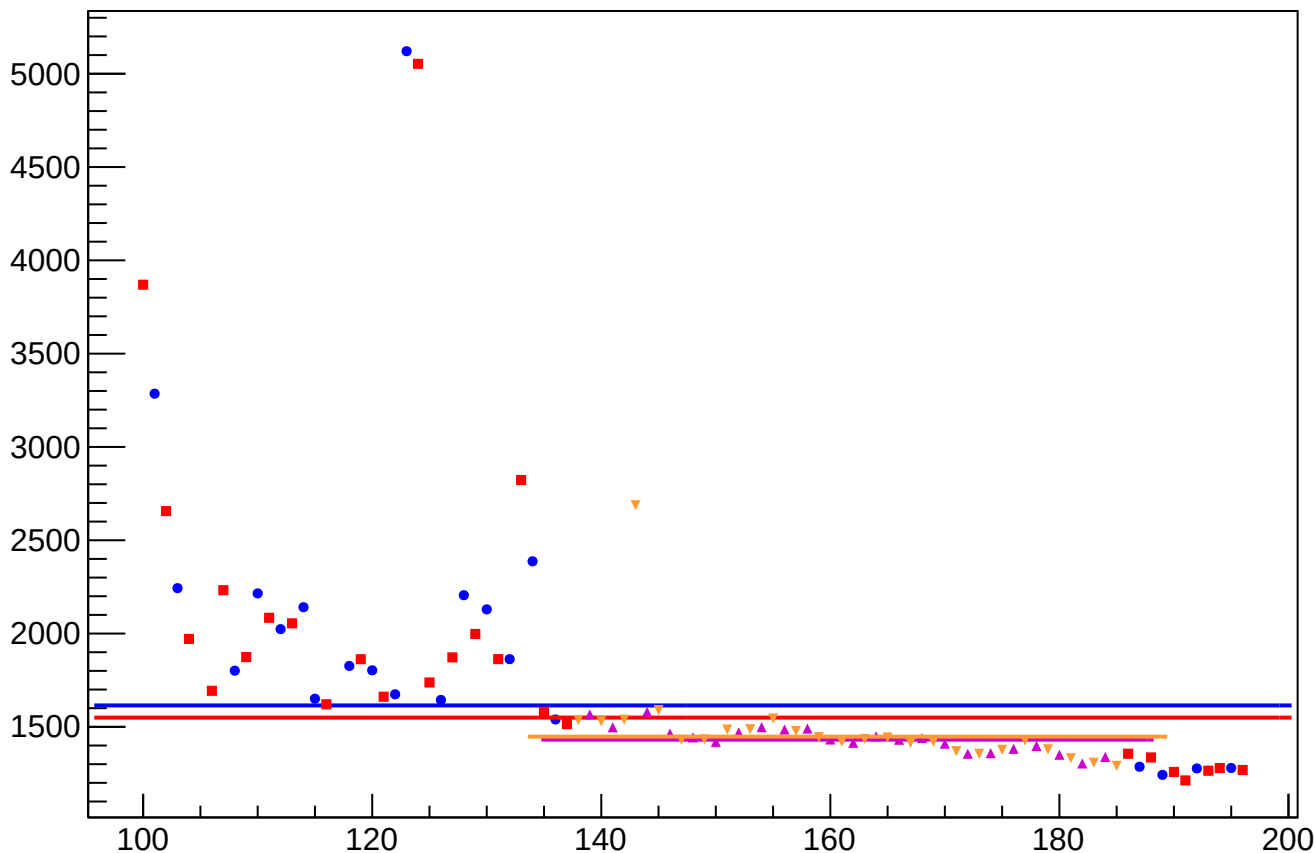
Right: -400.222+/-364.258 χ^2/NDF : 43.1/46

In: -136.747+/-292.772 χ^2/NDF : 43.4/43

Out: -818.126+/-277.206 χ^2/NDF : 48.0/50

All: -496.030+/-201.292 χ^2/NDF : 94.3/94

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1614.876+/-0.395 χ^2/NDF : 1079121.8/20

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1549.652+/-0.340 χ^2/NDF : 1271568.8/25

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

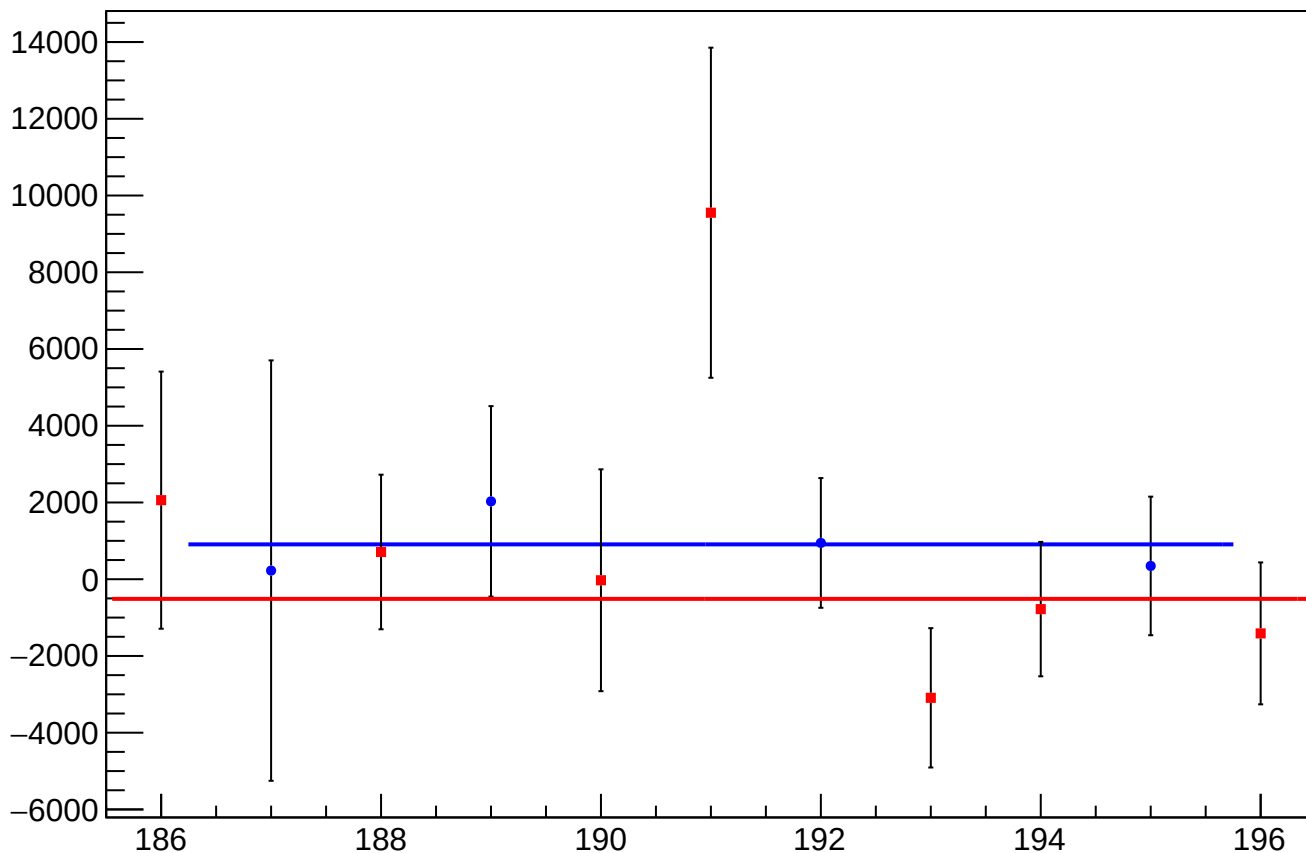
Right: 1577.340+/-0.258 χ^2/NDF : 2366356.1/46

In: 1481.757+/-0.207 χ^2/NDF : 1310491.3/43

Out: 1481.583+/-0.196 χ^2/NDF : 1751110.3/50

All: 1481.665+/-0.142 χ^2/NDF : 3061602.0/94

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 908.210+/-1083.263 χ^2/NDF : 0.3/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -512.293+/-835.935 χ^2/NDF : 8.7/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

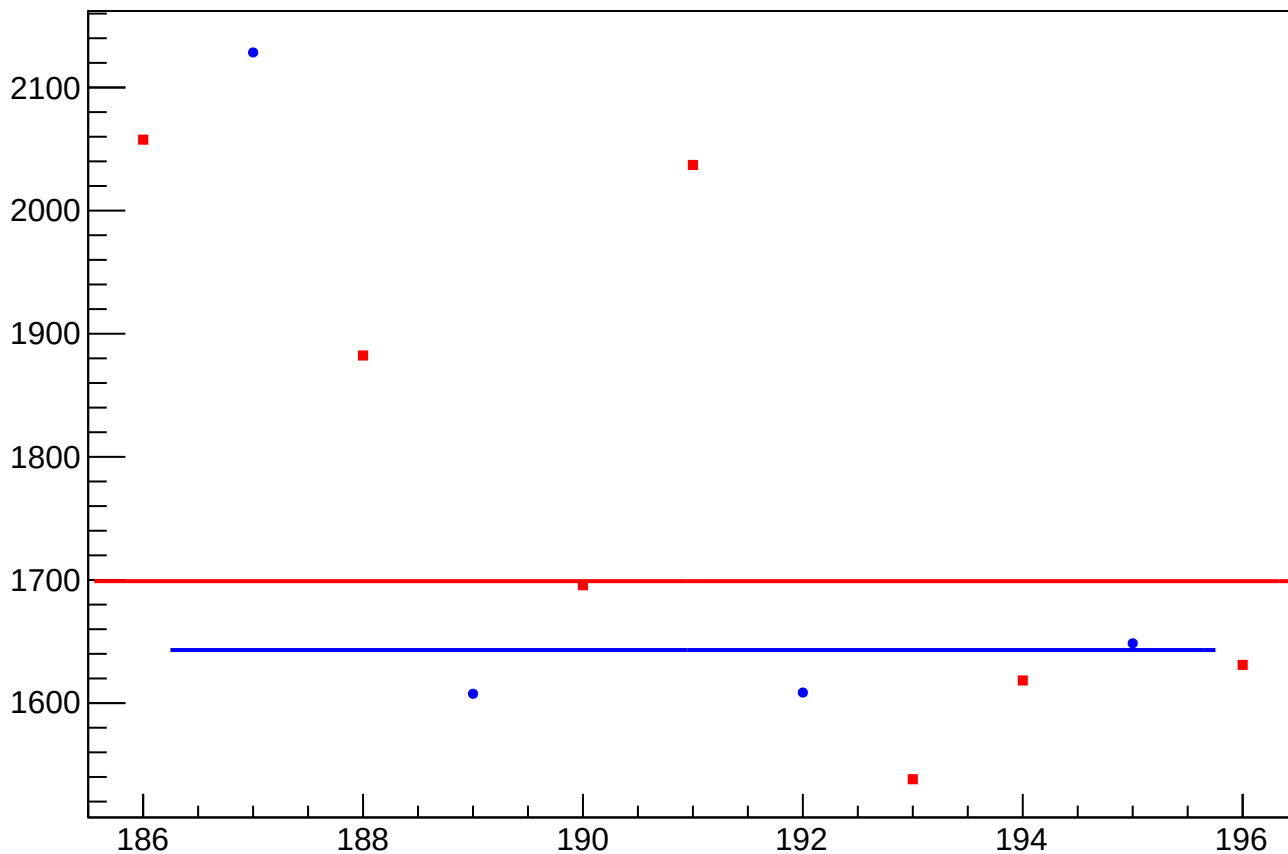
Right: 17.889+/-661.797 χ^2/NDF : 10.1/10

In: 908.210+/-1083.263 χ^2/NDF : 0.3/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 17.889+/-661.797 χ^2/NDF : 10.1/10

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1643.099+/-0.766 χ^2/NDF : 16961.3/3

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1699.028+/-0.591 χ^2/NDF : 74463.5/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

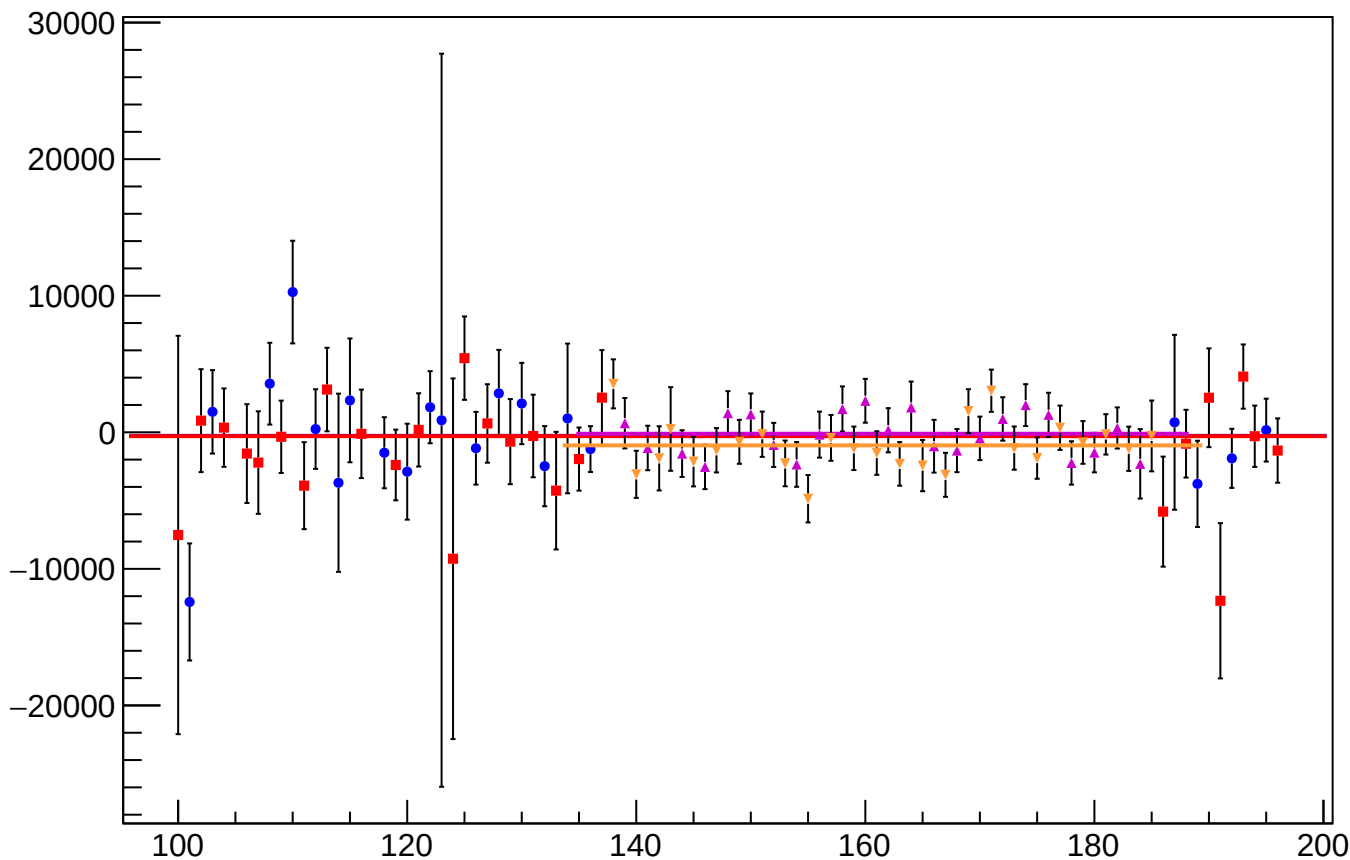
Right: 1678.153+/-0.468 χ^2/NDF : 94766.3/10

In: 1643.099+/-0.766 χ^2/NDF : 16961.3/3

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1678.153+/-0.468 χ^2/NDF : 94766.3/10

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -261.948+/-660.664 χ^2/NDF : 24.5/20

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -282.701+/-604.477 χ^2/NDF : 20.8/25

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

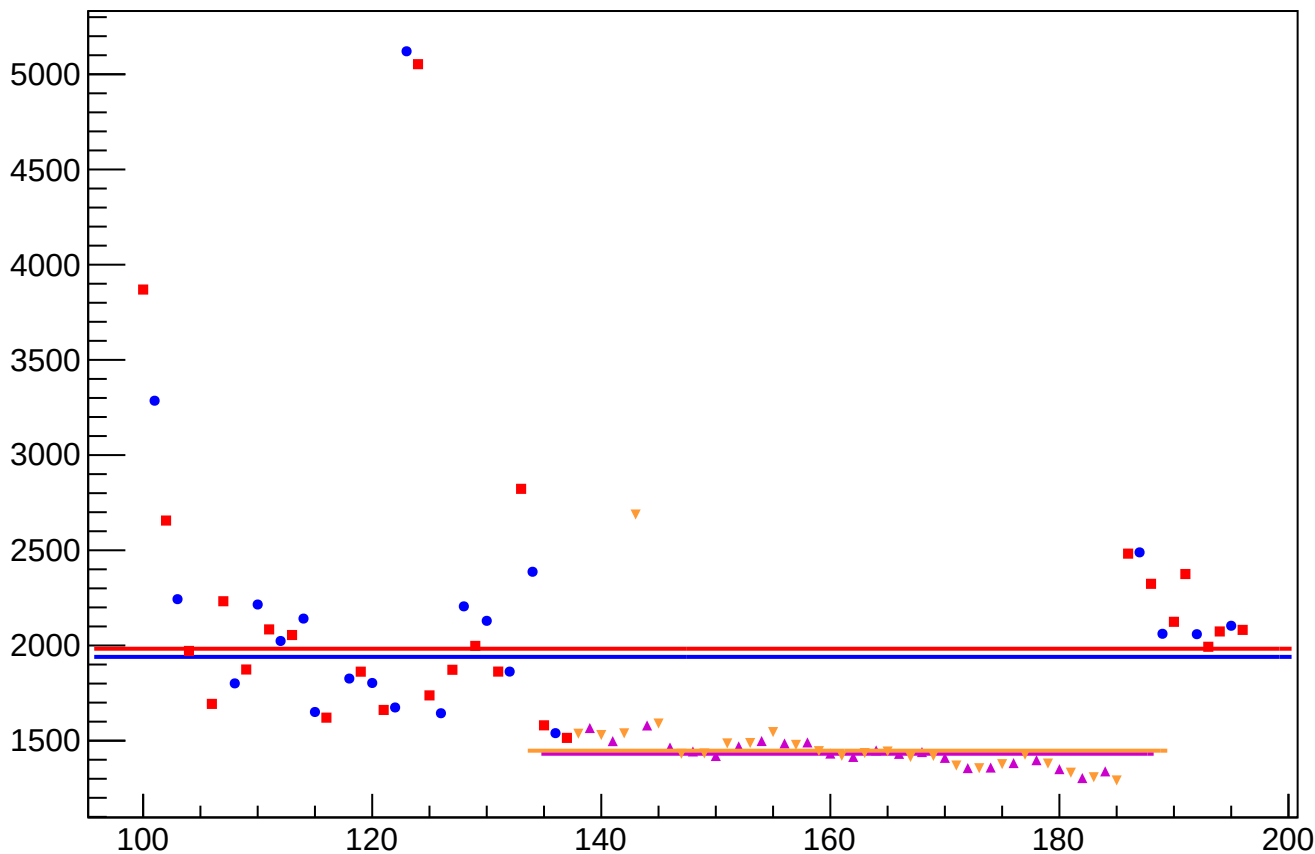
Right: -273.244+/-445.973 χ^2/NDF : 45.3/46

In: -140.401+/-304.881 χ^2/NDF : 44.0/43

Out: -796.378+/-296.006 χ^2/NDF : 50.3/50

All: -478.077+/-212.376 χ^2/NDF : 96.6/94

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1940.175+/-0.467 χ^2/NDF : 507831.1/20

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1983.017+/-0.427 χ^2/NDF : 571523.2/25

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

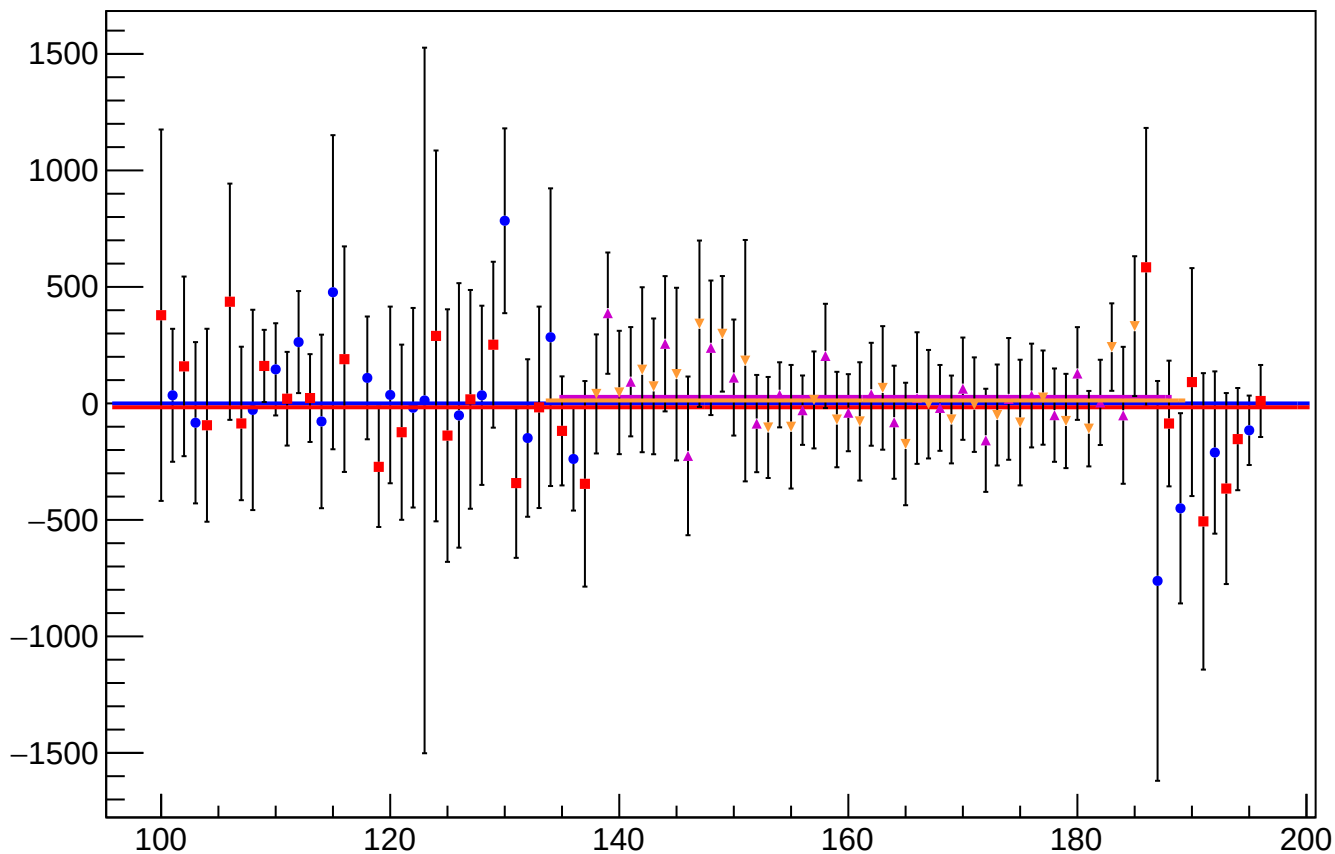
Right: 1963.495+/-0.315 χ^2/NDF : 1083932.3/46

In: 1539.794+/-0.216 χ^2/NDF : 1516270.2/43

Out: 1575.958+/-0.209 χ^2/NDF : 2183847.6/50

All: 1558.410+/-0.150 χ^2/NDF : 3714603.4/94

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.200 ± 67.801 $\chi^2/\text{NDF}: 11.2/20$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -16.663 ± 58.150 $\chi^2/\text{NDF}: 9.4/25$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

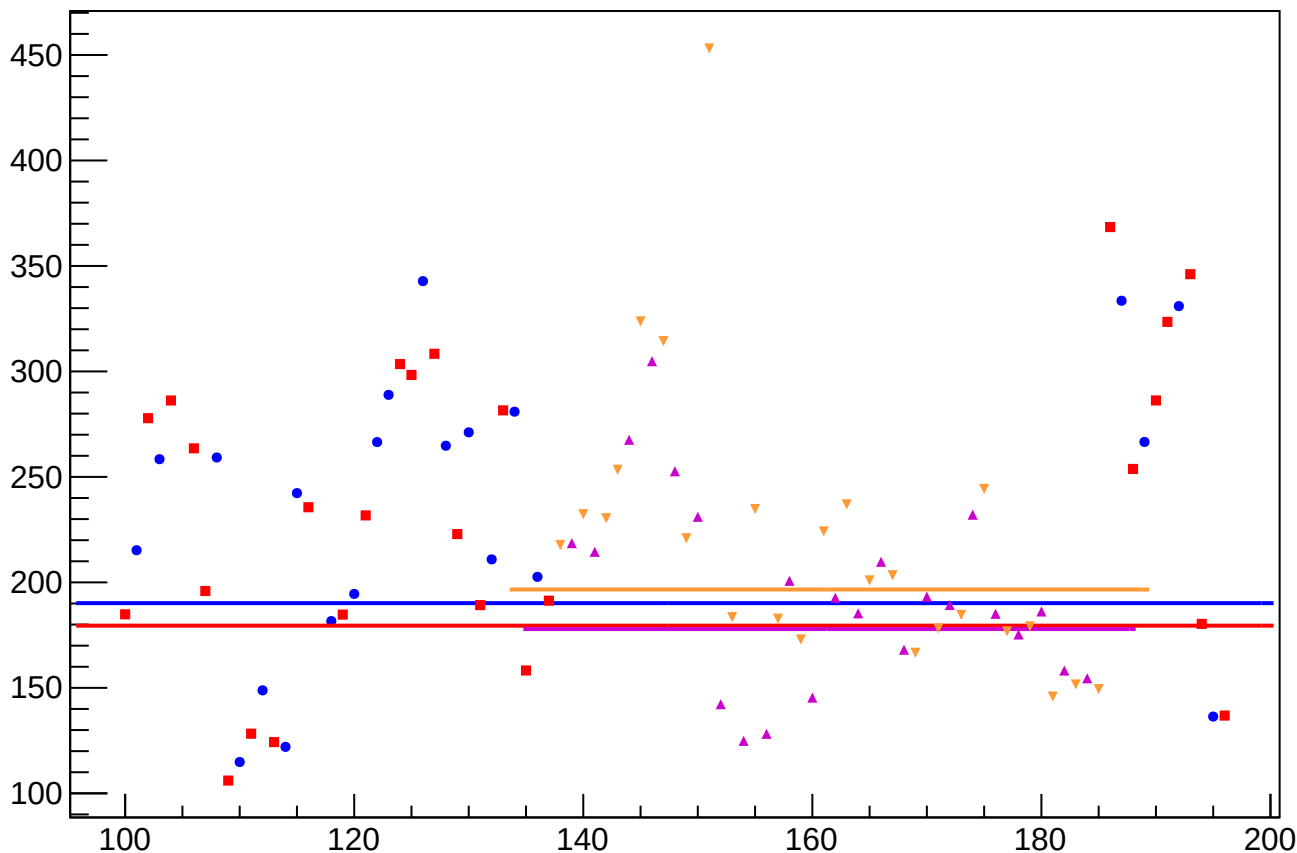
Right: -9.685 ± 44.140 $\chi^2/\text{NDF}: 20.6/46$

In: 19.448 ± 37.217 $\chi^2/\text{NDF}: 17.9/43$

Out: 0.904 ± 36.780 $\chi^2/\text{NDF}: 17.2/50$

All: 10.067 ± 26.160 $\chi^2/\text{NDF}: 35.2/94$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.159 $\pm$ 0.048 χ^2/NDF : 1729880.3/20

Left Out: 196.620 $\pm$ 0.034 χ^2/NDF :1793507.9/24

Right Out: 179.489 $\pm$ 0.041 χ^2/NDF : 2627416.2/25

Left In: 177.878 $\pm$ 0.031 χ^2/NDF :1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2/NDF : 3603390.3/47

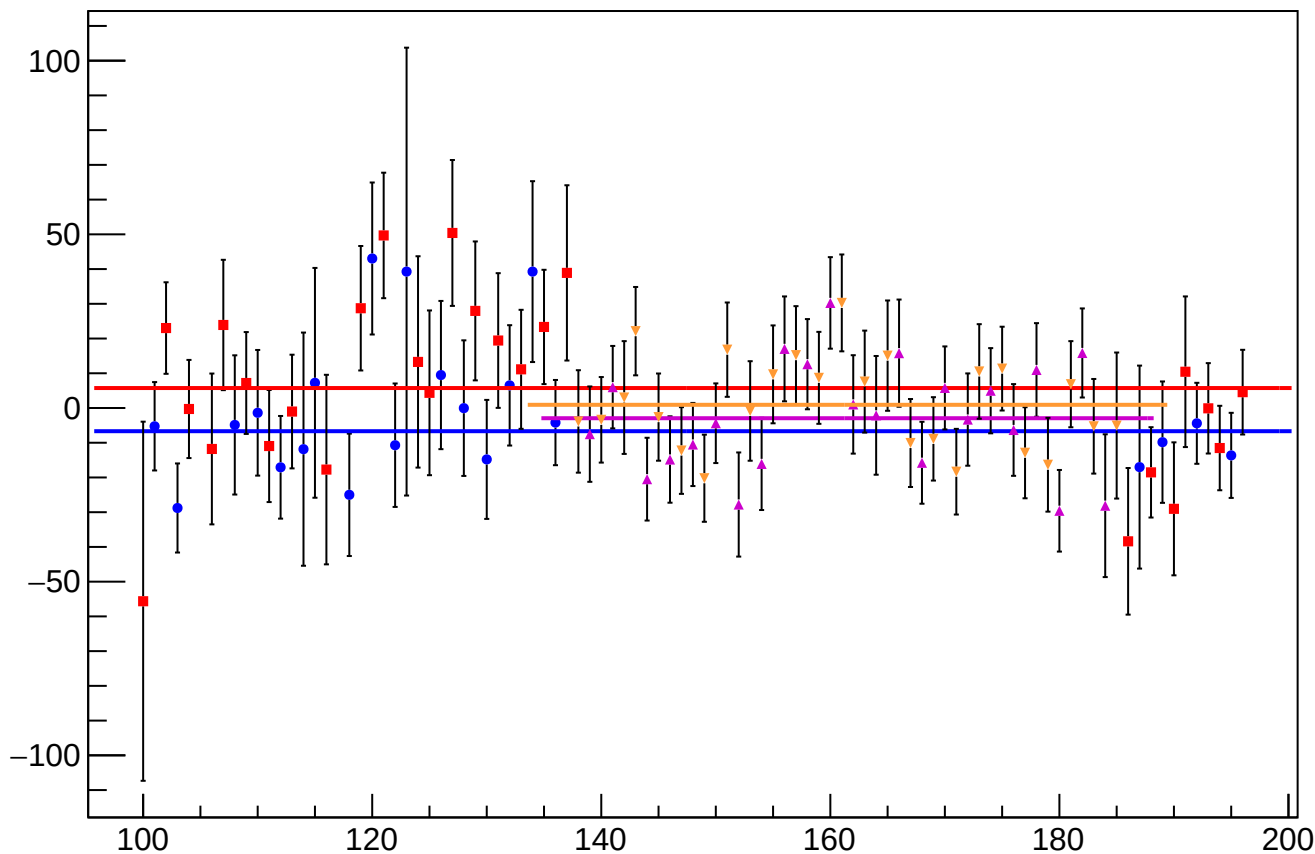
Right: 184.011 $\pm$ 0.031 χ^2/NDF : 4385836.5/46

In: 181.578 $\pm$ 0.026 χ^2/NDF :3419819.7/43

Out: 189.766 $\pm$ 0.026 χ^2/NDF :4525051.8/50

All: 185.720 $\pm$ 0.018 χ^2/NDF : 7993848.5/94

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.678 ± 3.752 $\chi^2/\text{NDF}: 15.7/20$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 5.747 ± 3.386 $\chi^2/\text{NDF}: 37.2/25$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

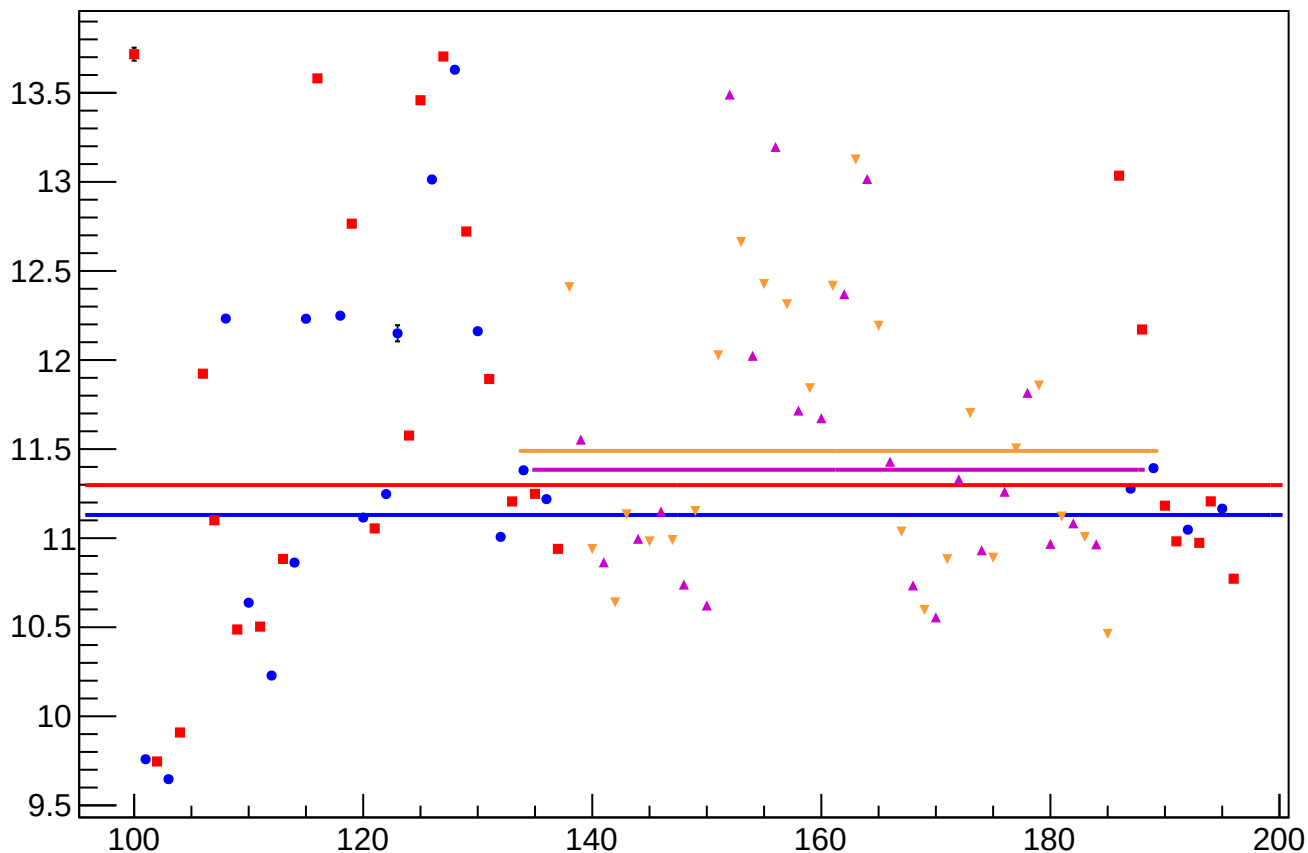
Right: 0.169 ± 2.514 $\chi^2/\text{NDF}: 59.0/46$

In: -4.244 ± 2.215 $\chi^2/\text{NDF}: 47.4/43$

Out: 2.793 ± 2.109 $\chi^2/\text{NDF}: 62.4/50$

All: -0.553 ± 1.528 $\chi^2/\text{NDF}: 115.1/94$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.130 $\pm$ 0.003 χ^2 /NDF: 132588.6/20

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.298 $\pm$ 0.002 χ^2 /NDF: 176982.2/25

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

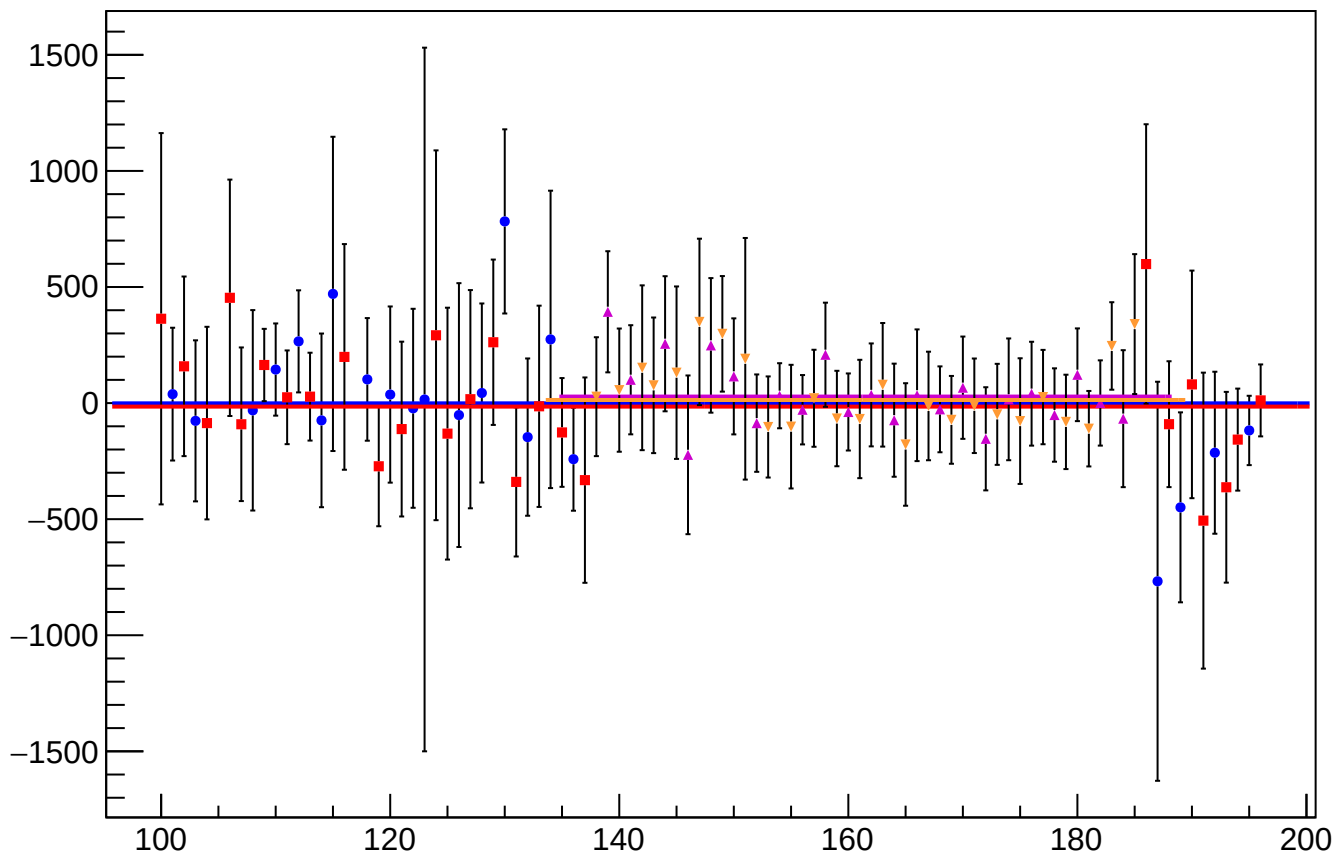
Right: 11.223 $\pm$ 0.002 χ^2 /NDF: 311769.7/46

In: 11.296 $\pm$ 0.002 χ^2 /NDF:288349.7/43

Out: 11.415 $\pm$ 0.001 χ^2 /NDF:313313.1/50

All: 11.358 $\pm$ 0.001 χ^2 /NDF: 604725.7/94

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.091 ± 67.970 $\chi^2/\text{NDF}: 11.2/20$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -15.185 ± 58.316 $\chi^2/\text{NDF}: 9.5/25$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

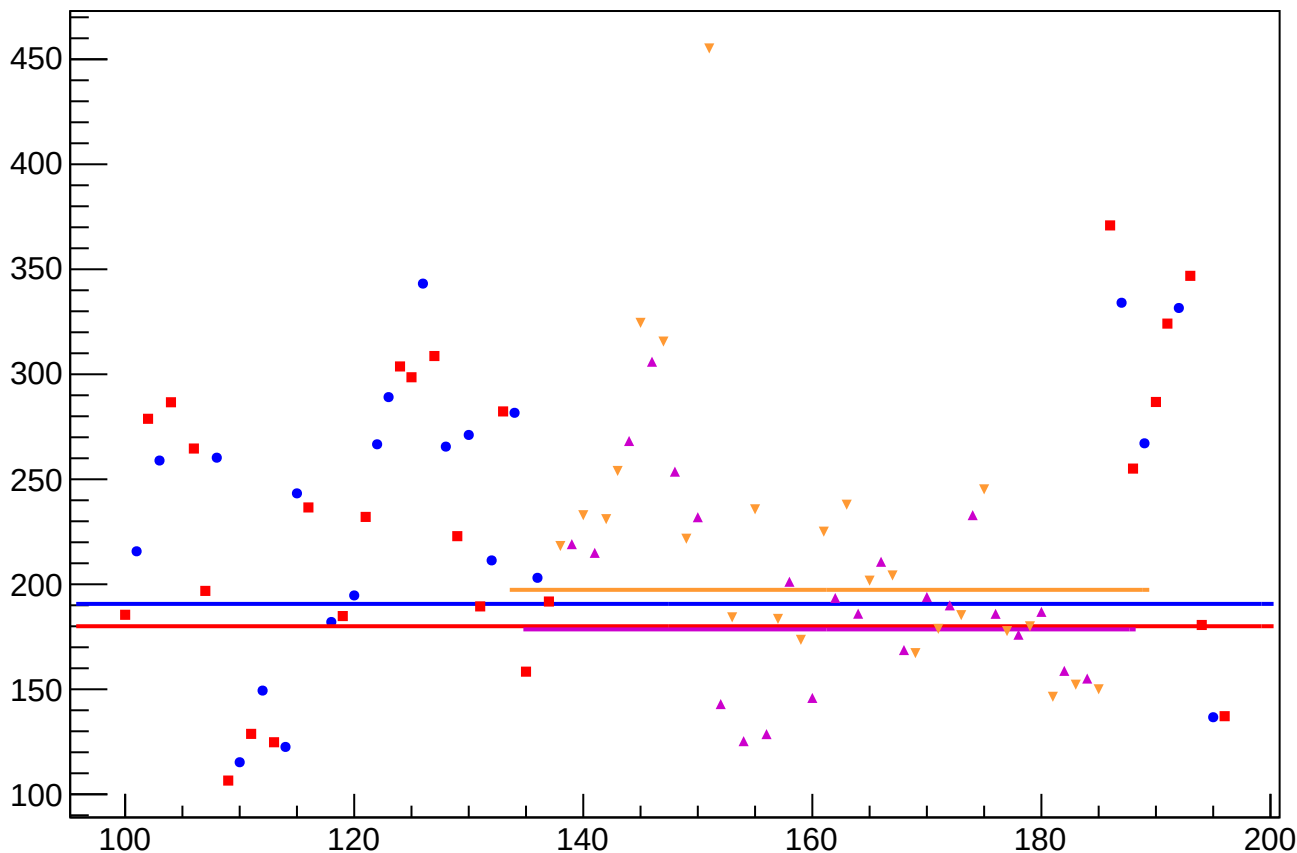
Right: -9.209 ± 44.259 $\chi^2/\text{NDF}: 20.7/46$

In: 19.257 ± 37.337 $\chi^2/\text{NDF}: 18.0/43$

Out: 1.906 ± 36.904 $\chi^2/\text{NDF}: 17.5/50$

All: 10.481 ± 26.247 $\chi^2/\text{NDF}: 35.6/94$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.663 $\pm$ 0.048 χ^2/NDF : 1724797.4/20

Left Out: 197.355 $\pm$ 0.034 χ^2/NDF :1790824.5/24

Right Out: 180.025 $\pm$ 0.041 χ^2/NDF : 2622642.0/25

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

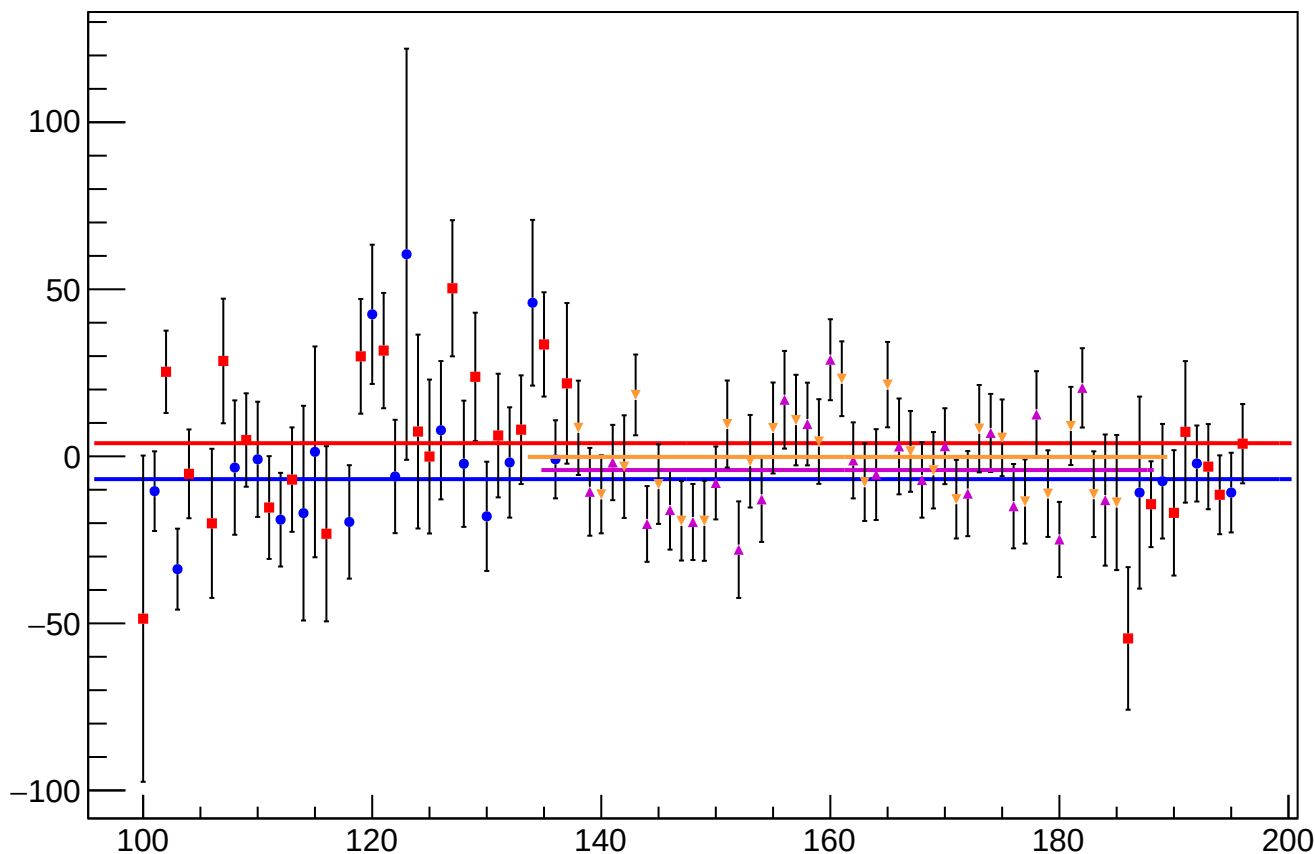
Right: 184.535 $\pm$ 0.031 χ^2/NDF : 4375656.2/46

In: 182.178 $\pm$ 0.026 χ^2/NDF :3411728.3/43

Out: 190.415 $\pm$ 0.026 χ^2/NDF :4519361.0/50

All: 186.345 $\pm$ 0.019 χ^2/NDF : 7980321.0/94

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.827 ± 3.601 χ^2/NDF : 19.7/20

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 3.938 ± 3.267 χ^2/NDF : 38.8/25

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

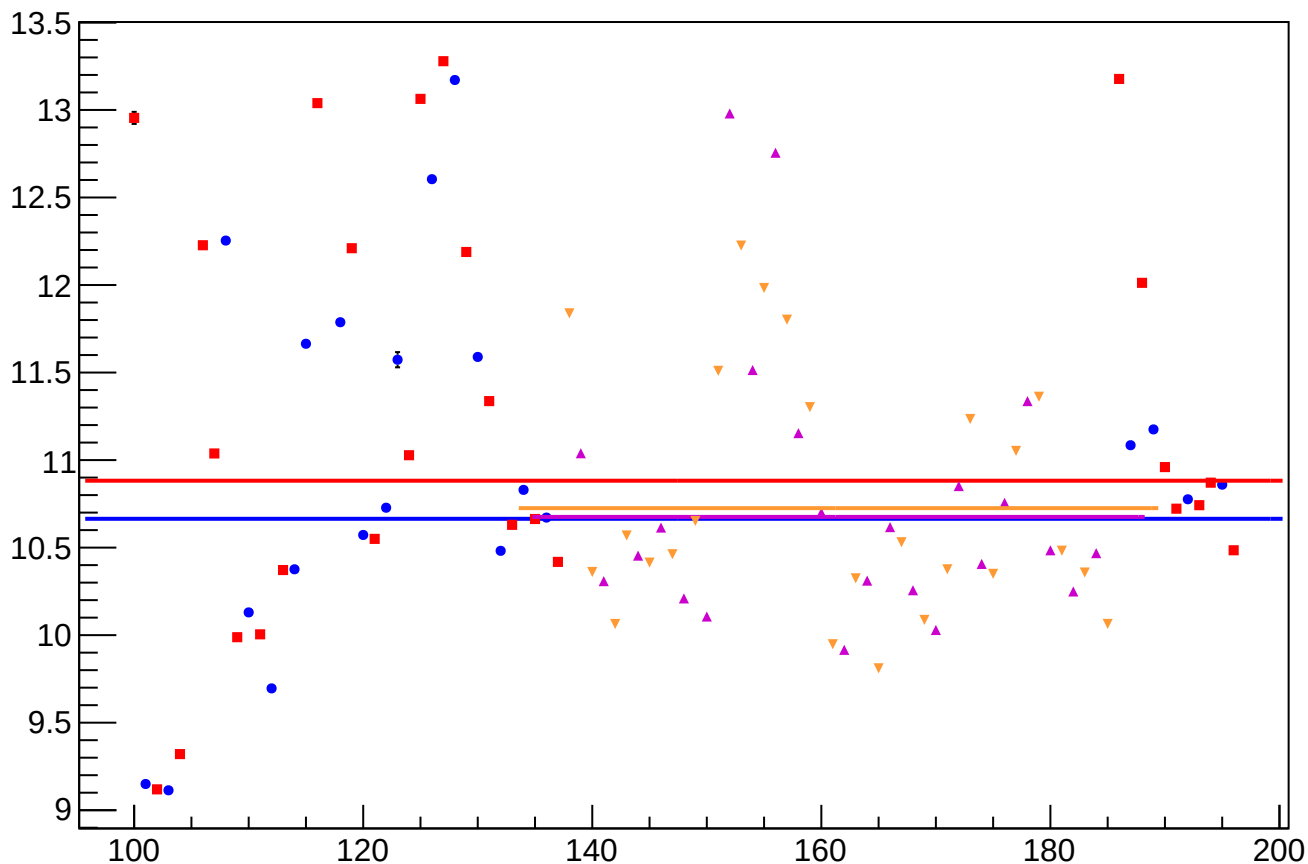
Right: -0.922 ± 2.420 χ^2/NDF : 63.4/46

In: -5.028 ± 2.096 χ^2/NDF : 51.6/43

Out: 1.362 ± 1.996 χ^2/NDF : 64.2/50

All: -1.676 ± 1.445 χ^2/NDF : 120.7/94

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.665 ± 0.003 $\chi^2/\text{NDF}: 162844.1/20$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.882 ± 0.002 $\chi^2/\text{NDF}: 221557.8/25$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

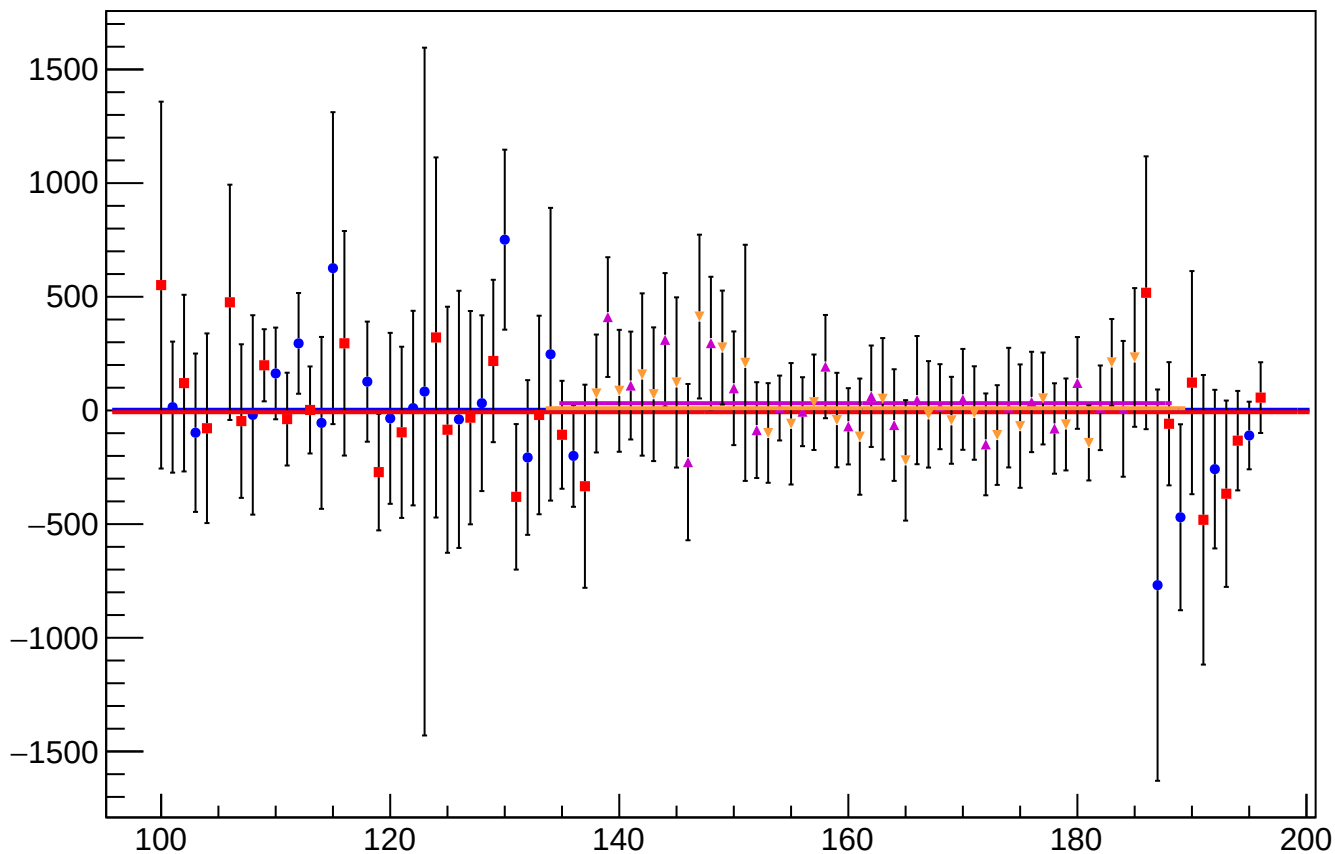
Right: 10.784 ± 0.002 $\chi^2/\text{NDF}: 388407.3/46$

In: 10.672 ± 0.001 $\chi^2/\text{NDF}: 308794.3/43$

Out: 10.784 ± 0.001 $\chi^2/\text{NDF}: 356614.0/50$

All: 10.731 ± 0.001 $\chi^2/\text{NDF}: 668413.2/94$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 3.061 ± 68.239 $\chi^2/\text{NDF}: 11.7/20$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -7.774 ± 58.710 $\chi^2/\text{NDF}: 10.0/25$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

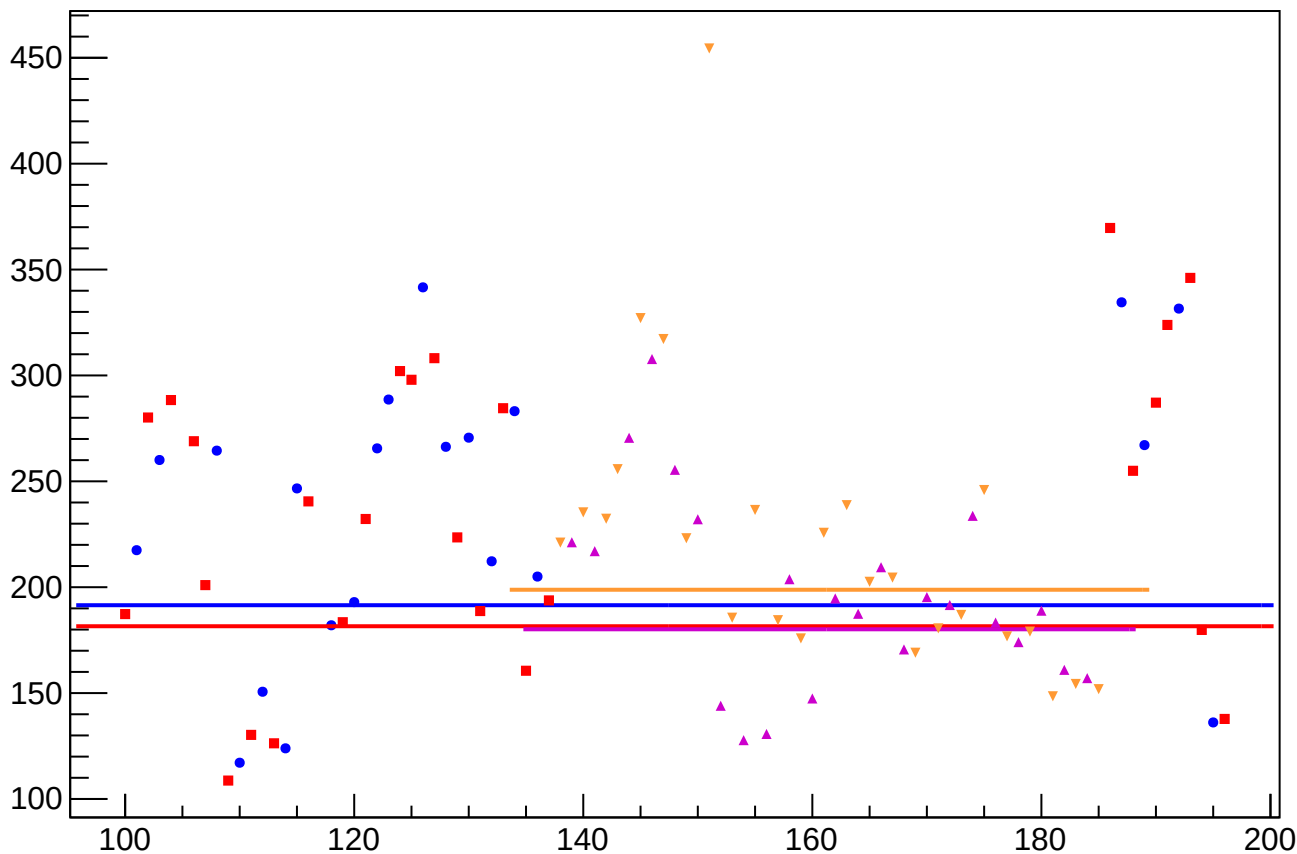
Right: -3.165 ± 44.505 $\chi^2/\text{NDF}: 21.8/46$

In: 23.211 ± 37.589 $\chi^2/\text{NDF}: 19.0/43$

Out: 2.764 ± 37.151 $\chi^2/\text{NDF}: 17.6/50$

All: 12.868 ± 26.423 $\chi^2/\text{NDF}: 36.8/94$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.496 $\pm$ 0.048 χ^2 /NDF: 1710597.5/20

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 181.569 $\pm$ 0.042 χ^2 /NDF: 2561078.0/25

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF:1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

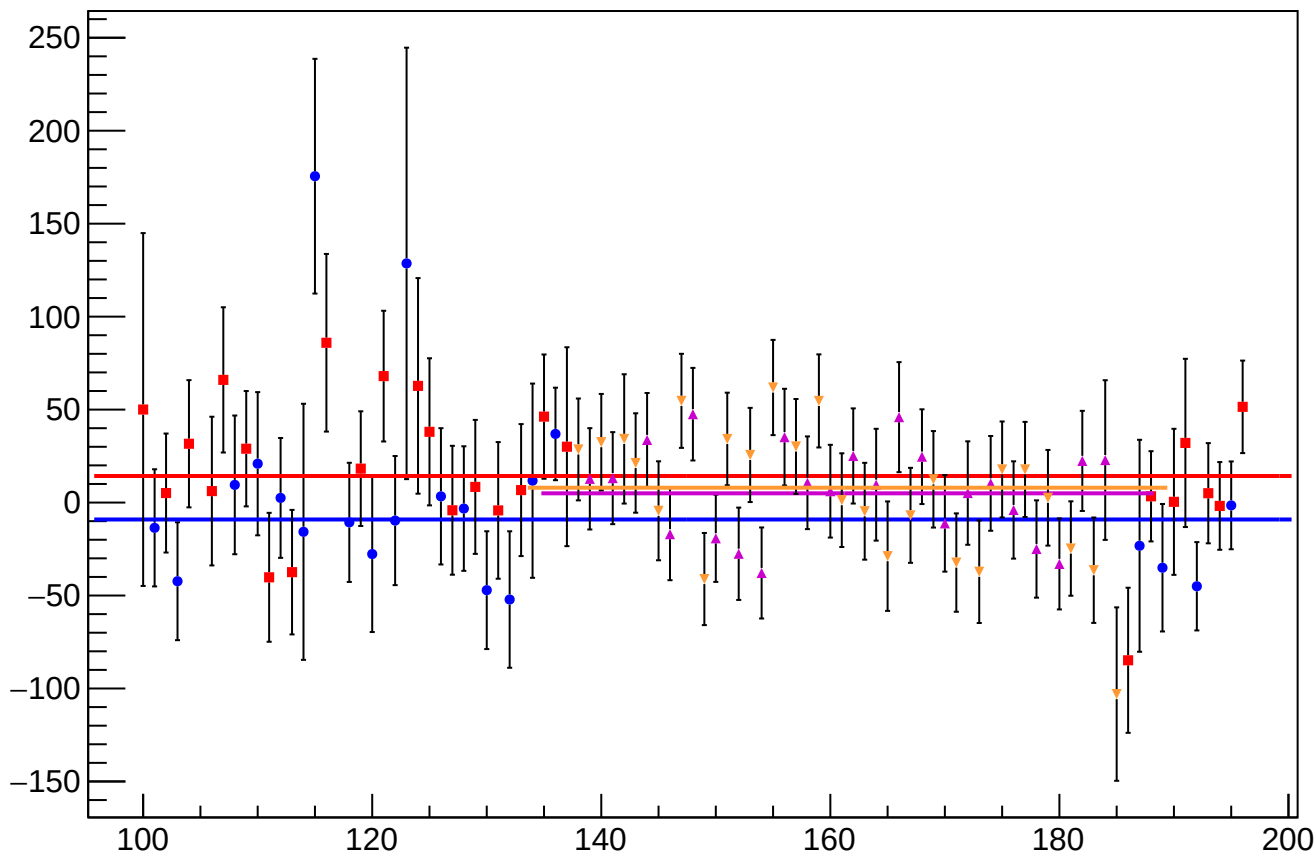
Right: 185.792 $\pm$ 0.031 χ^2 /NDF: 4295998.8/46

In: 183.574 $\pm$ 0.027 χ^2 /NDF:3343138.2/43

Out: 191.900 $\pm$ 0.026 χ^2 /NDF:4427493.8/50

All: 187.786 $\pm$ 0.019 χ^2 /NDF: 7820274.0/94

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.101 ± 7.593 $\chi^2/\text{NDF}: 21.8/20$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 14.293 ± 6.760 $\chi^2/\text{NDF}: 24.4/25$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

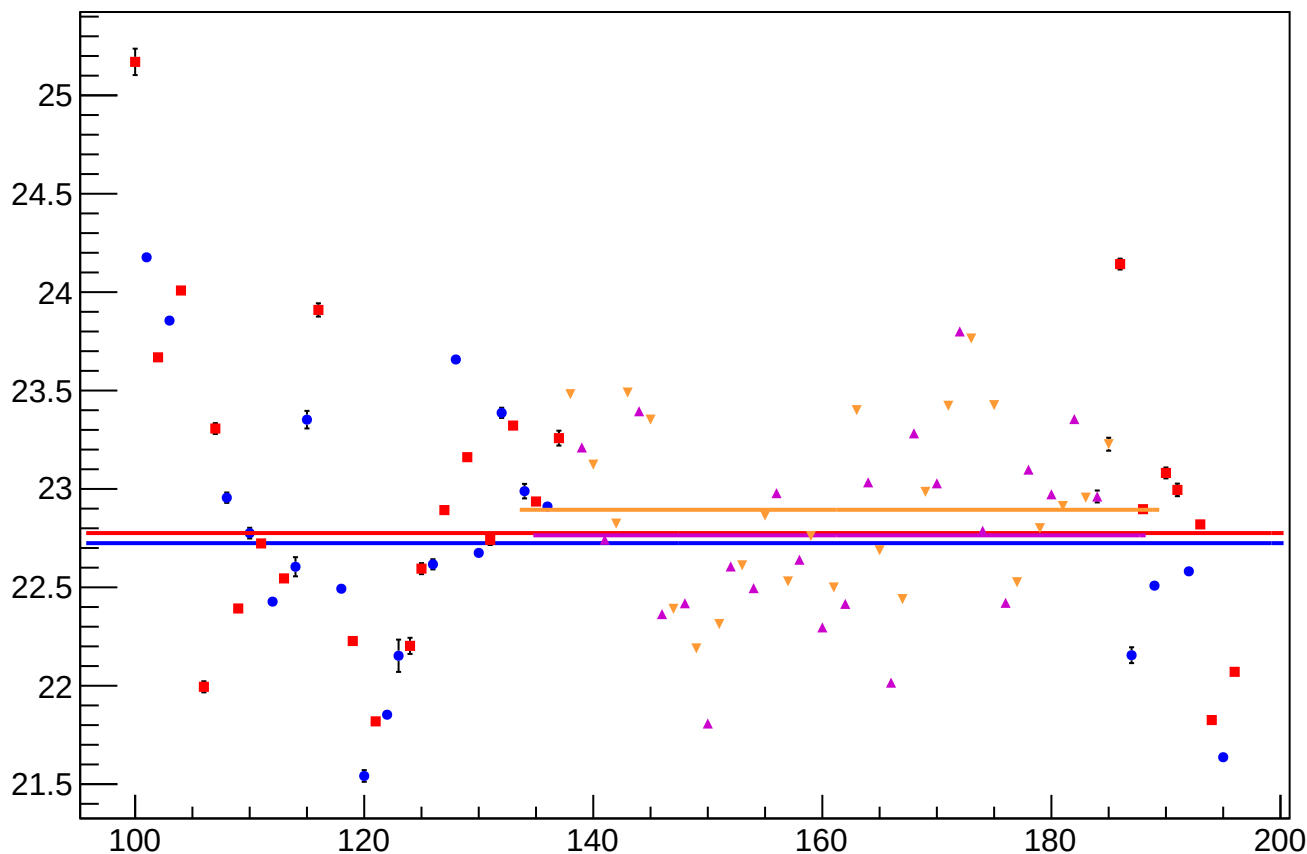
Right: 3.949 ± 5.049 $\chi^2/\text{NDF}: 51.5/46$

In: 0.194 ± 4.425 $\chi^2/\text{NDF}: 44.6/43$

Out: 10.405 ± 4.184 $\chi^2/\text{NDF}: 62.4/50$

All: 5.584 ± 3.040 $\chi^2/\text{NDF}: 109.7/94$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.725 $\pm$ 0.005 χ^2 /NDF: 17236.3/20

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.776 $\pm$ 0.005 χ^2 /NDF: 18905.5/25

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

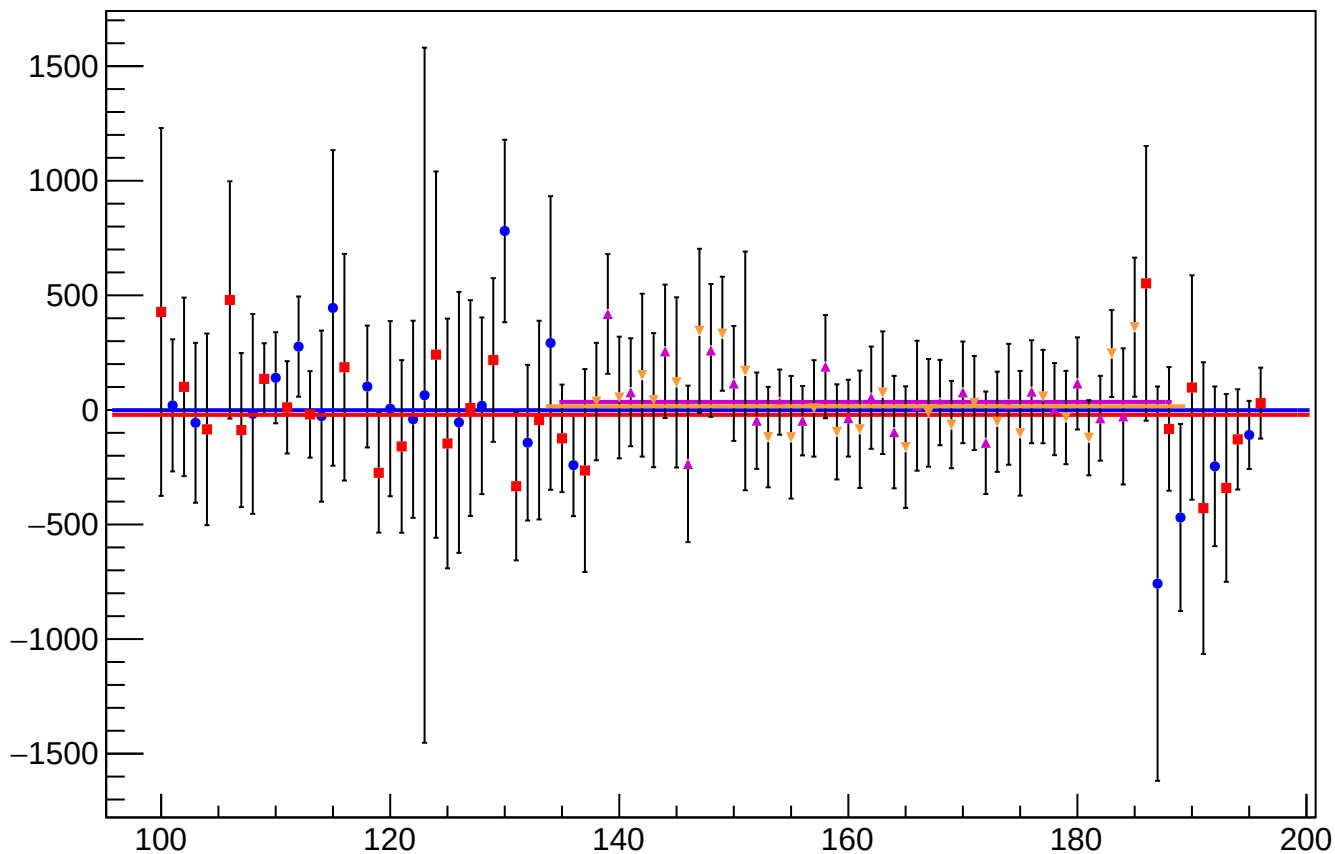
Right: 22.753 $\pm$ 0.004 χ^2 /NDF: 36192.5/46

In: 22.751 $\pm$ 0.003 χ^2 /NDF:31938.0/43

Out: 22.849 $\pm$ 0.003 χ^2 /NDF:32354.0/50

All: 22.803 $\pm$ 0.002 χ^2 /NDF: 64809.8/94

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.278 ± 68.017 $\chi^2/\text{NDF}: 11.3/20$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -21.635 ± 58.368 $\chi^2/\text{NDF}: 8.1/25$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

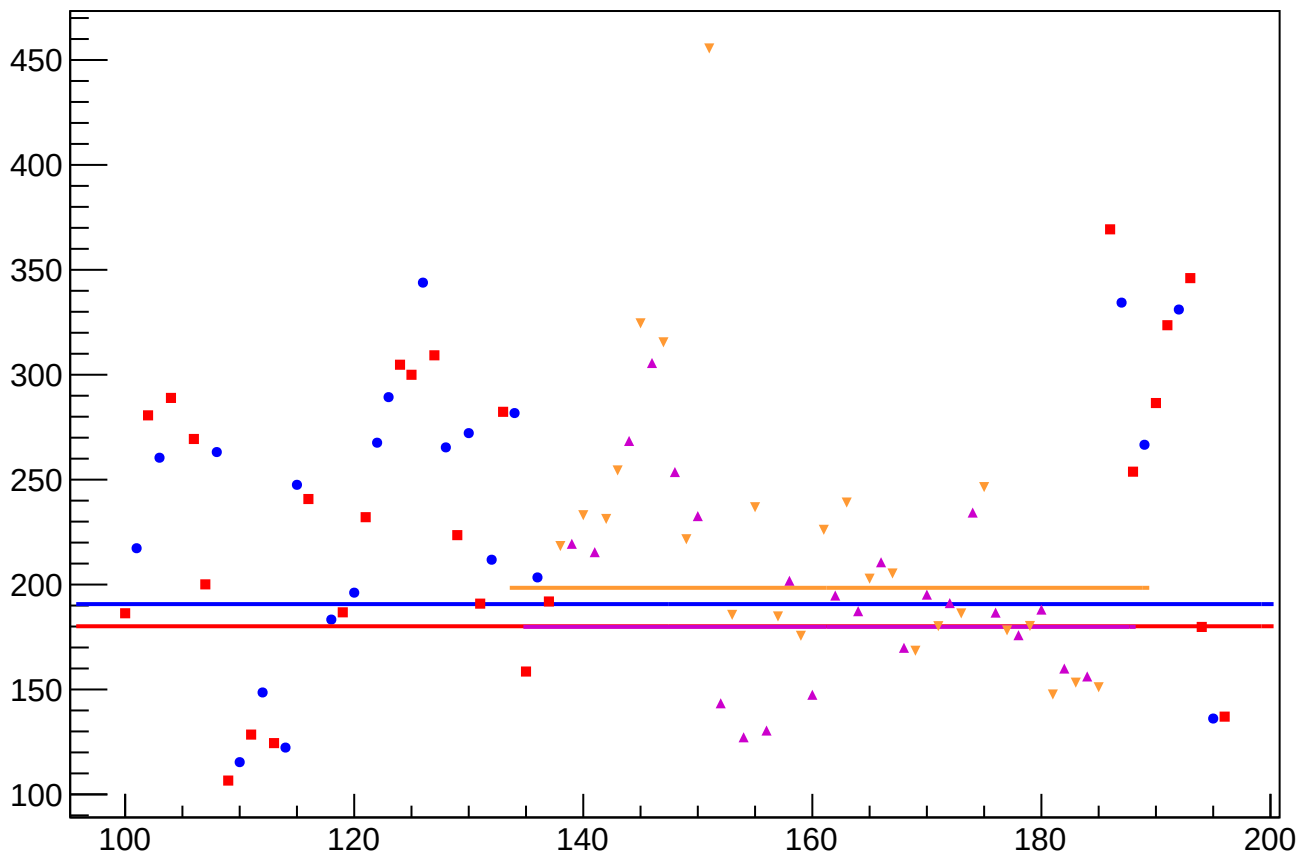
Right: -13.002 ± 44.295 $\chi^2/\text{NDF}: 19.4/46$

In: 23.909 ± 37.513 $\chi^2/\text{NDF}: 18.0/43$

Out: 0.797 ± 37.027 $\chi^2/\text{NDF}: 16.8/50$

All: 12.202 ± 26.352 $\chi^2/\text{NDF}: 35.0/94$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.685 $\pm$ 0.048 χ^2 /NDF: 1746152.6/20

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF: 1761433.9/24

Right Out: 180.127 $\pm$ 0.041 χ^2 /NDF: 2641452.1/25

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

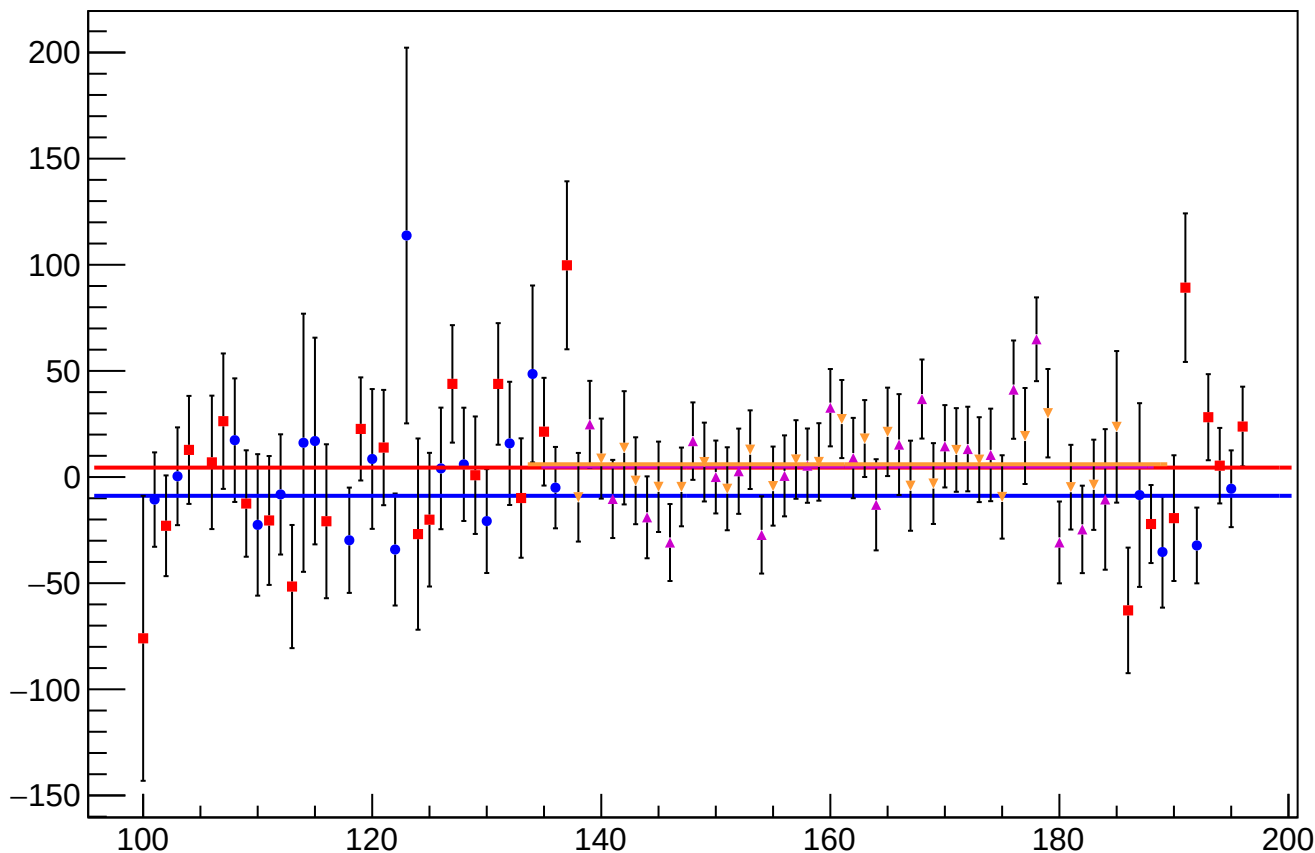
Right: 184.605 $\pm$ 0.031 χ^2 /NDF: 4415358.0/46

In: 183.138 $\pm$ 0.027 χ^2 /NDF: 3370372.5/43

Out: 191.076 $\pm$ 0.026 χ^2 /NDF: 4520662.8/50

All: 187.159 $\pm$ 0.019 χ^2 /NDF: 7936398.4/94

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -8.843 ± 5.872 χ^2/NDF : 11.6/20

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 4.445 ± 5.235 χ^2/NDF : 37.1/25

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

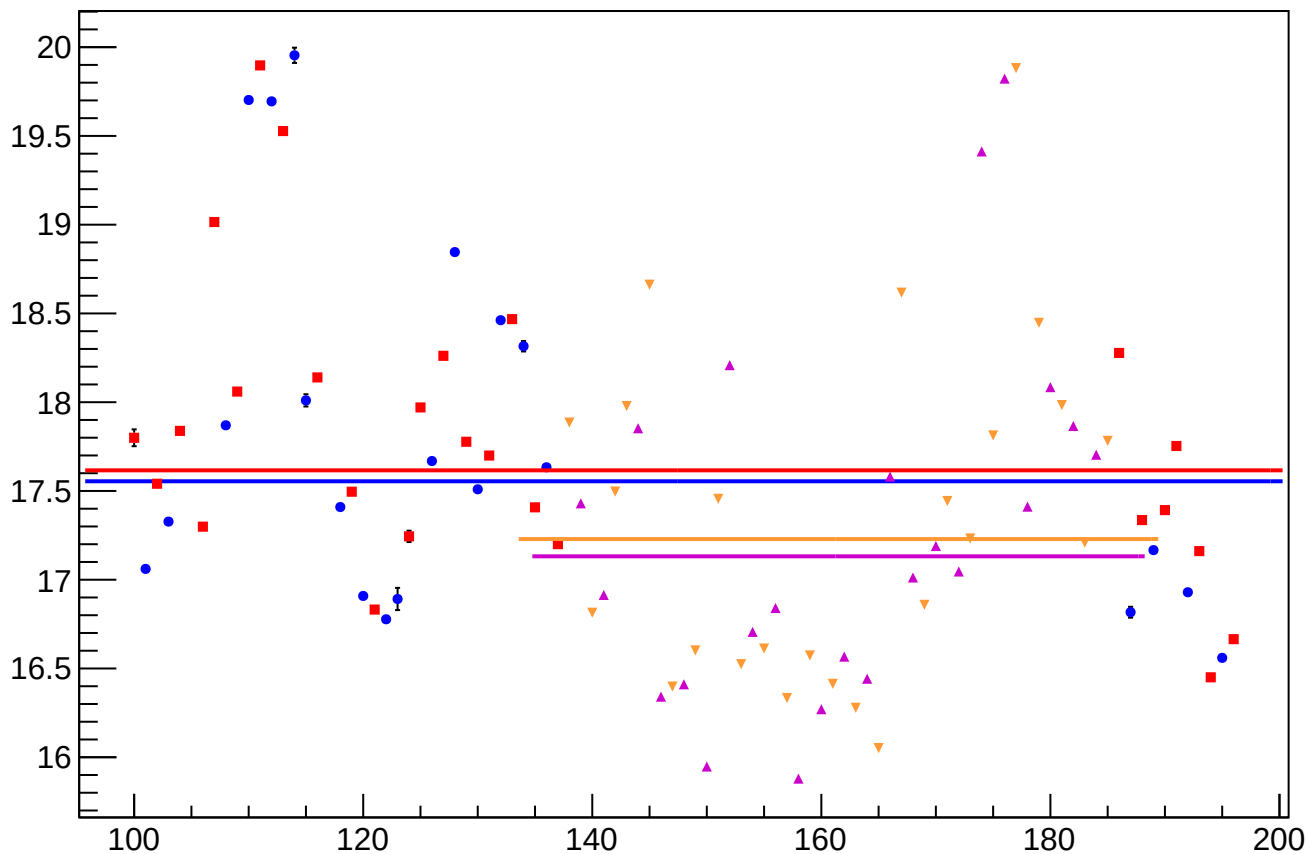
Right: -1.440 ± 3.908 χ^2/NDF : 51.6/46

In: 0.414 ± 3.366 χ^2/NDF : 50.1/43

Out: 5.436 ± 3.187 χ^2/NDF : 45.3/50

All: 3.062 ± 2.314 χ^2/NDF : 96.6/94

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.555 $\pm$ 0.004 χ^2/NDF : 44019.0/20

Left Out: 17.229 $\pm$ 0.003 χ^2/NDF :98624.7/24

Right Out: 17.616 $\pm$ 0.004 χ^2/NDF : 47047.8/25

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

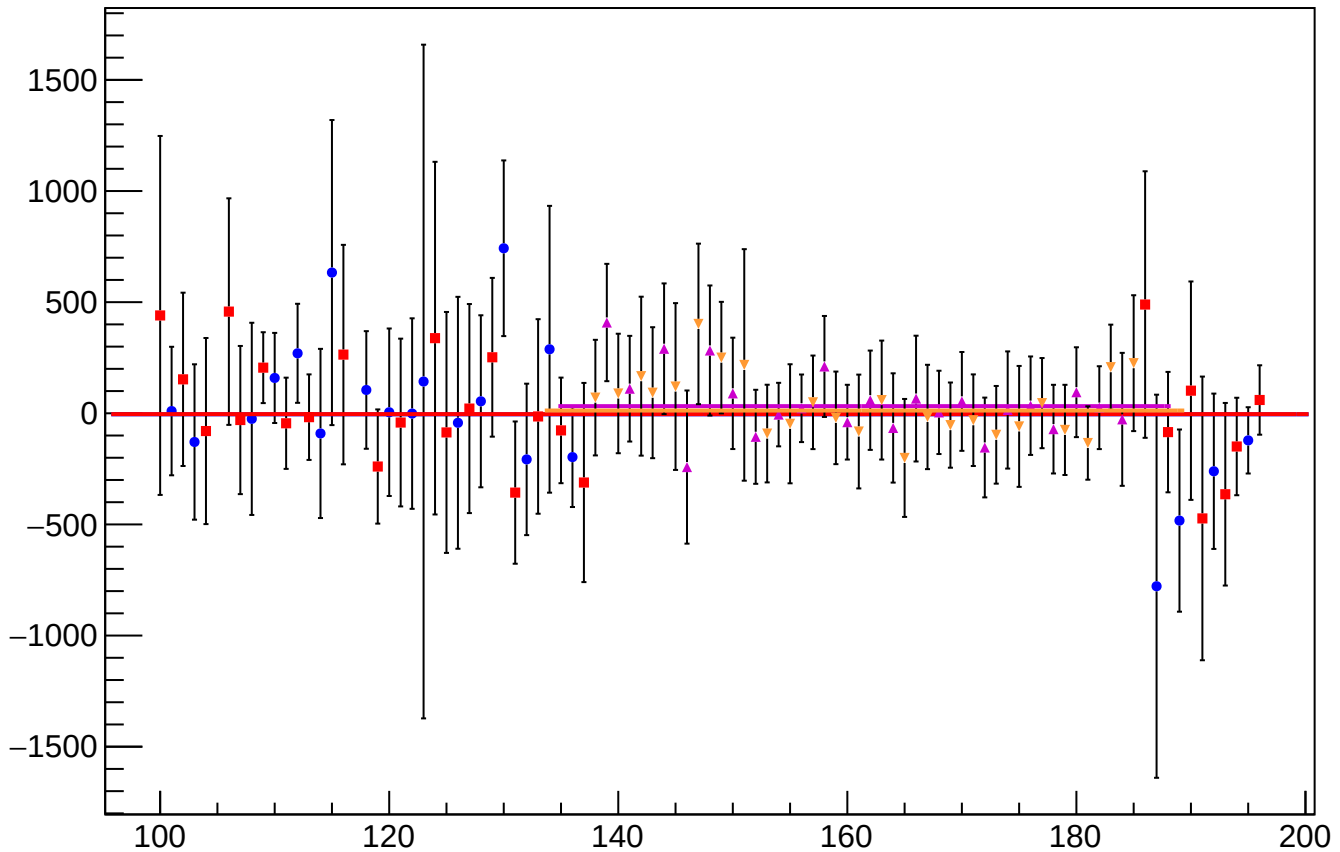
Right: 17.589 $\pm$ 0.003 χ^2/NDF : 91189.5/46

In: 17.271 $\pm$ 0.002 χ^2/NDF :154975.0/43

Out: 17.373 $\pm$ 0.002 χ^2/NDF :152551.7/50

All: 17.324 $\pm$ 0.002 χ^2/NDF : 308491.9/94

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -4.716 ± 68.405 χ^2/NDF : 11.6/20

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -3.750 ± 58.841 χ^2/NDF : 9.5/25

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

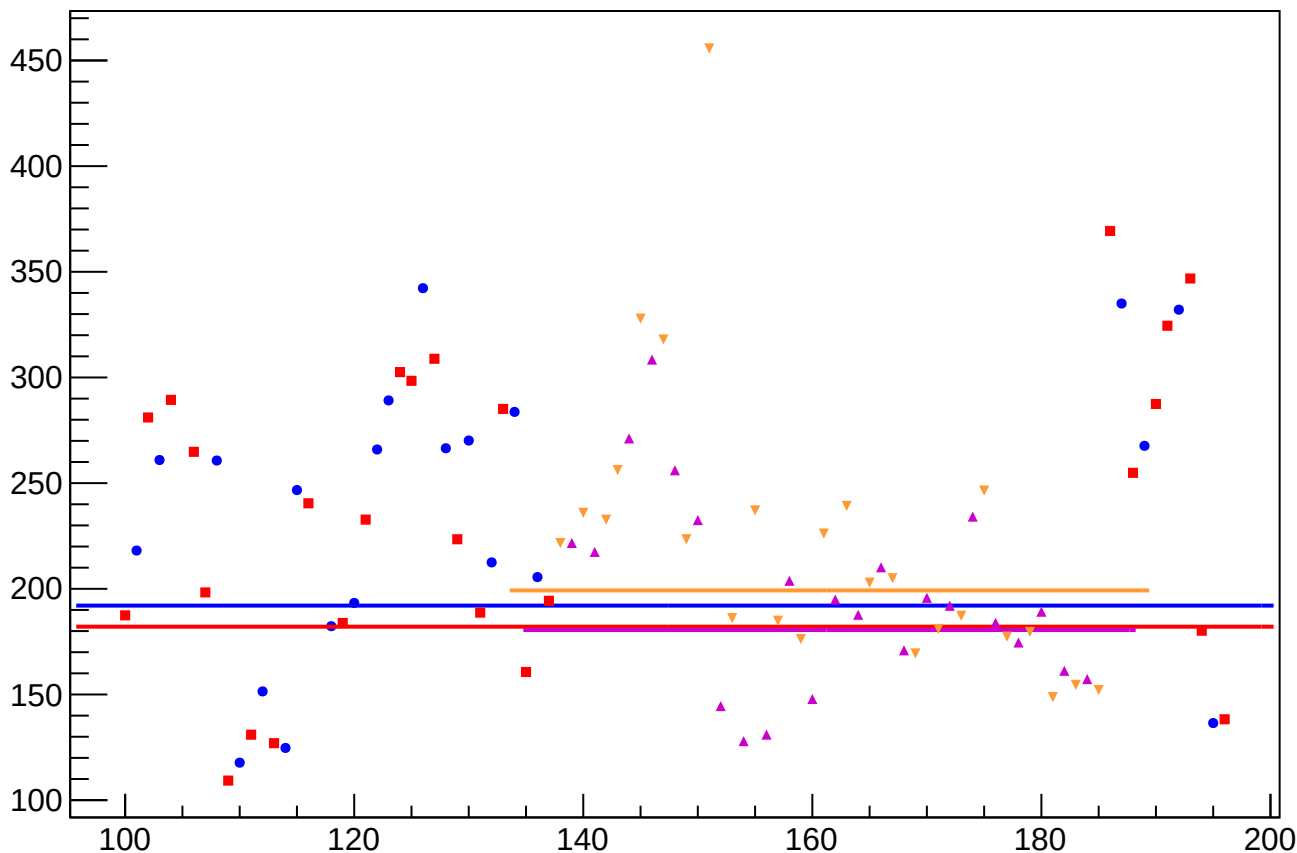
Right: -4.161 ± 44.608 χ^2/NDF : 21.1/46

In: 20.976 ± 37.671 χ^2/NDF : 18.8/43

Out: 5.978 ± 37.234 χ^2/NDF : 16.4/50

All: 13.389 ± 26.482 χ^2/NDF : 35.2/94

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.056 $\pm$ 0.048 χ^2 /NDF: 1694725.7/20

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 182.081 $\pm$ 0.042 χ^2 /NDF: 2537499.3/25

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

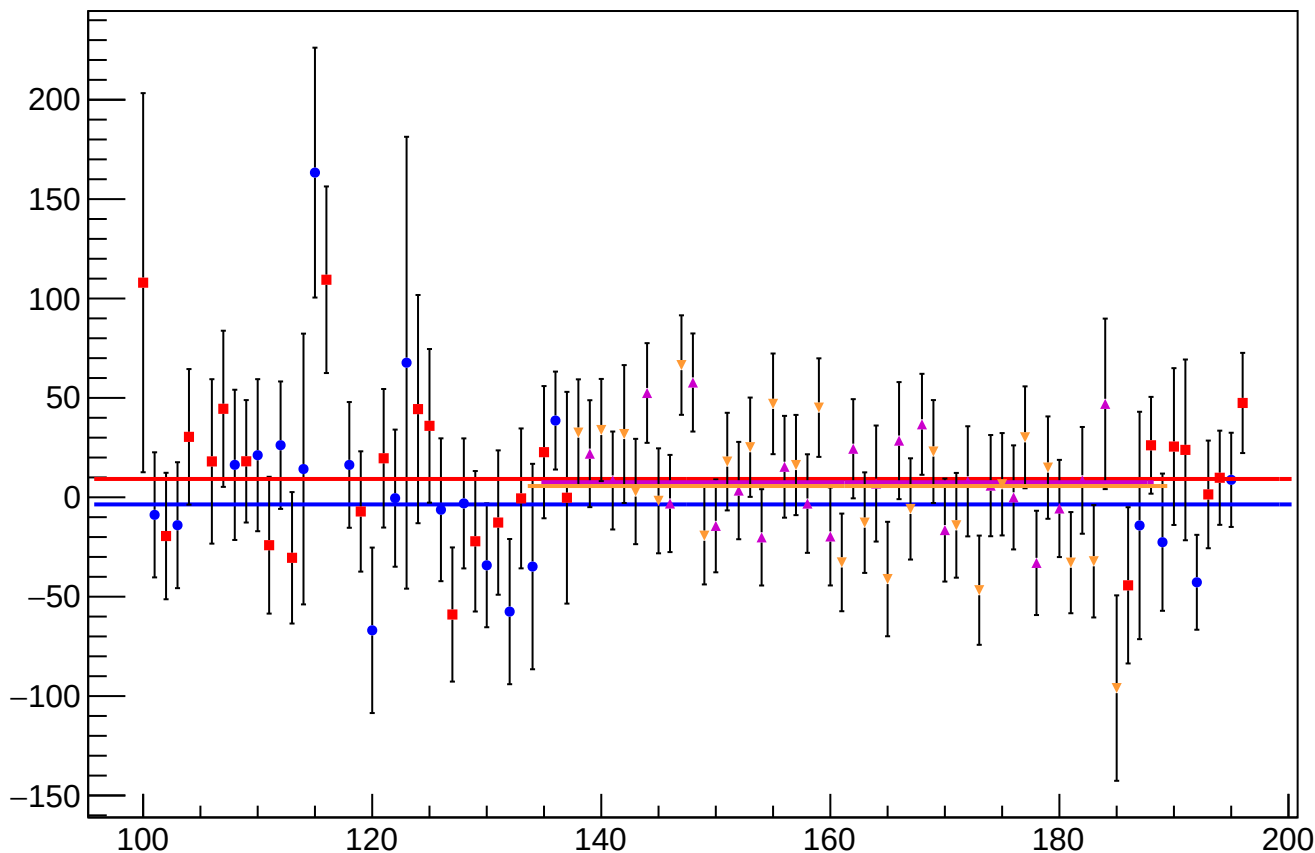
Right: 186.323 $\pm$ 0.032 χ^2 /NDF: 4256667.4/46

In: 184.000 $\pm$ 0.027 χ^2 /NDF:3328317.8/43

Out: 192.370 $\pm$ 0.026 χ^2 /NDF:4403591.4/50

All: 188.234 $\pm$ 0.019 χ^2 /NDF: 7781847.2/94

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.580 ± 7.555 χ^2/NDF : 21.7/20

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.223 ± 6.737 χ^2/NDF : 21.9/25

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

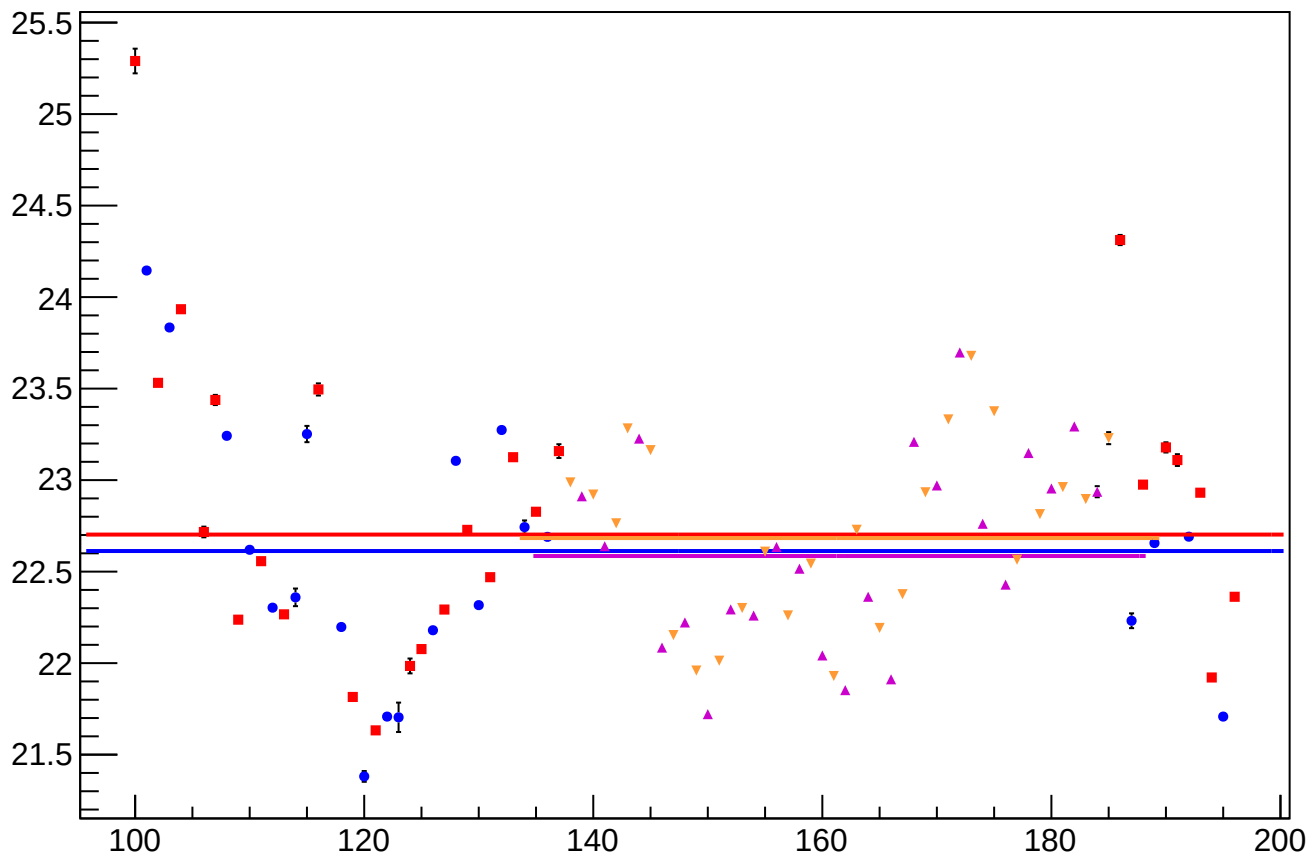
Right: 3.551 ± 5.028 χ^2/NDF : 45.2/46

In: 3.814 ± 4.394 χ^2/NDF : 41.4/43

Out: 7.023 ± 4.155 χ^2/NDF : 58.5/50

All: 5.508 ± 3.019 χ^2/NDF : 100.2/94

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.613+/-0.005 χ^2/NDF : 16934.7/20

Left Out: 22.683+/-0.004 χ^2/NDF : 16318.1/24

Right Out: 22.702+/-0.005 χ^2/NDF : 19567.8/25

Left In: 22.585+/-0.004 χ^2/NDF : 18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

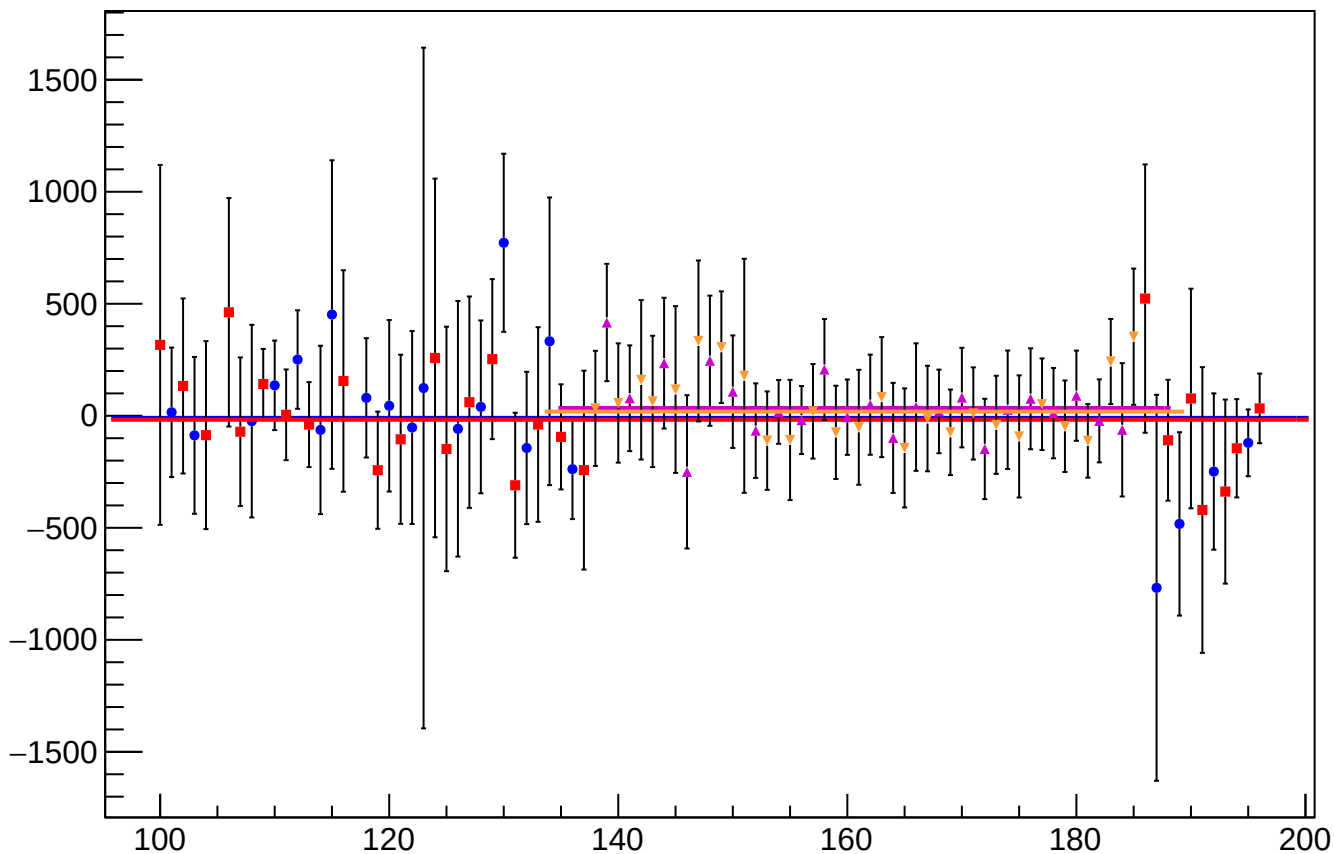
Right: 22.663+/-0.004 χ^2/NDF : 36660.2/46

In: 22.594+/-0.003 χ^2/NDF : 35039.5/43

Out: 22.691+/-0.003 χ^2/NDF : 35895.7/50

All: 22.645+/-0.002 χ^2/NDF : 71441.1/94

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -9.174 ± 68.185 $\chi^2/\text{NDF}: 11.1/20$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -17.712 ± 58.503 $\chi^2/\text{NDF}: 7.6/25$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

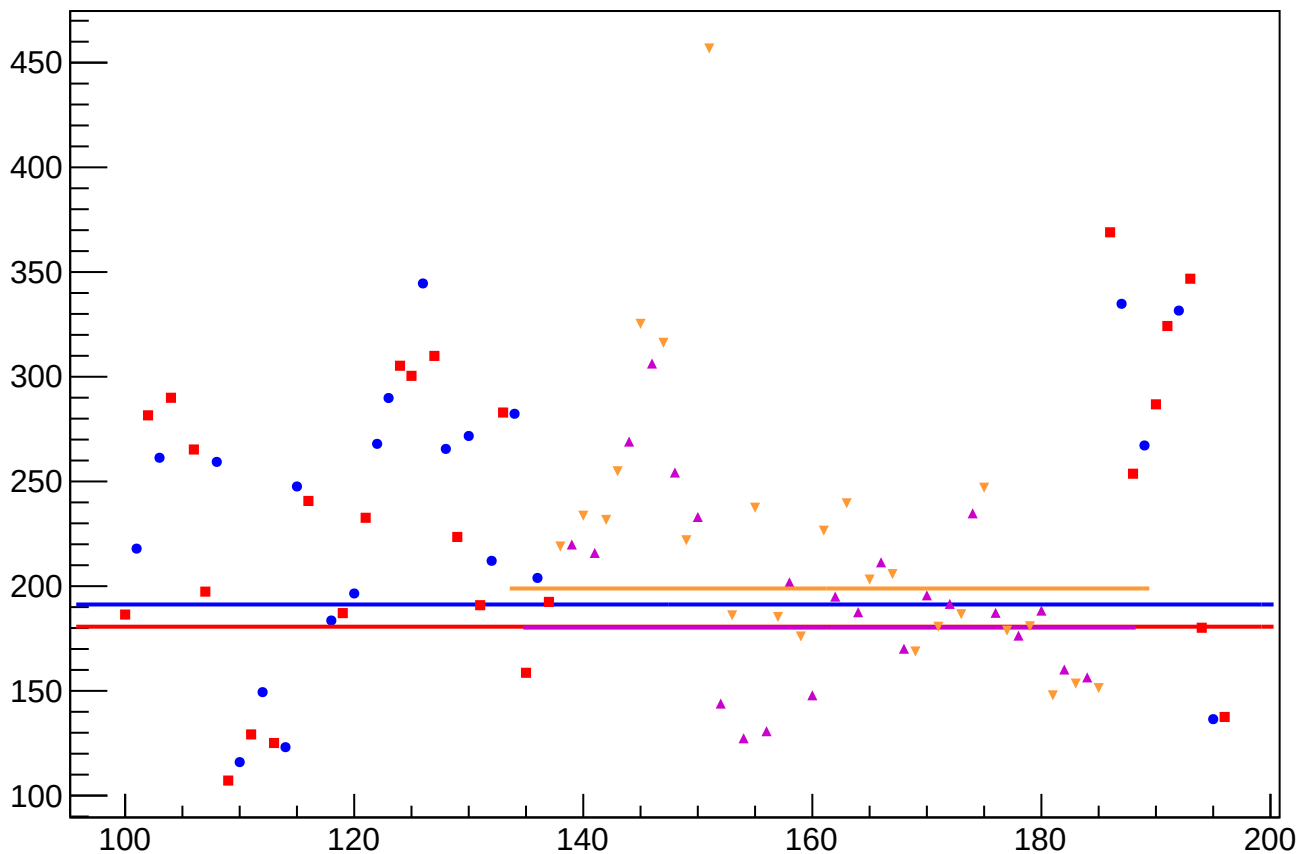
Right: -14.092 ± 44.400 $\chi^2/\text{NDF}: 18.8/46$

In: 21.603 ± 37.595 $\chi^2/\text{NDF}: 17.7/43$

Out: 4.008 ± 37.111 $\chi^2/\text{NDF}: 15.4/50$

All: 12.692 ± 26.411 $\chi^2/\text{NDF}: 33.3/94$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.254 $\pm$ 0.048 χ^2 /NDF: 1729588.9/20

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 180.652 $\pm$ 0.041 χ^2 /NDF: 2616783.5/25

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

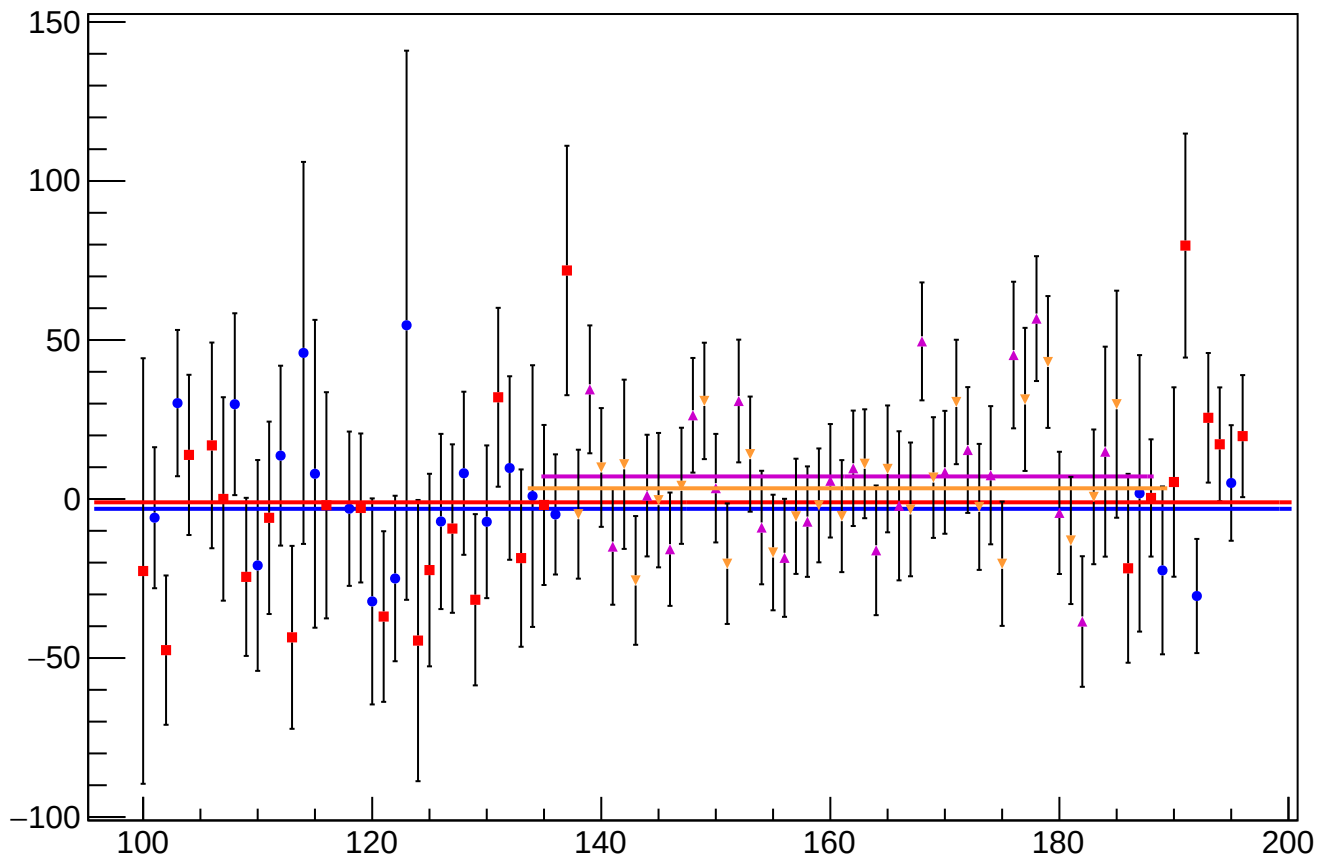
Right: 185.147 $\pm$ 0.031 χ^2 /NDF: 4374221.9/46

In: 183.565 $\pm$ 0.027 χ^2 /NDF:3355128.5/43

Out: 191.551 $\pm$ 0.026 χ^2 /NDF:4495406.7/50

All: 187.610 $\pm$ 0.019 χ^2 /NDF: 7896245.5/94

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.086 ± 5.819 χ^2/NDF : 10.3/20

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: -1.036 ± 5.205 χ^2/NDF : 27.4/25

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

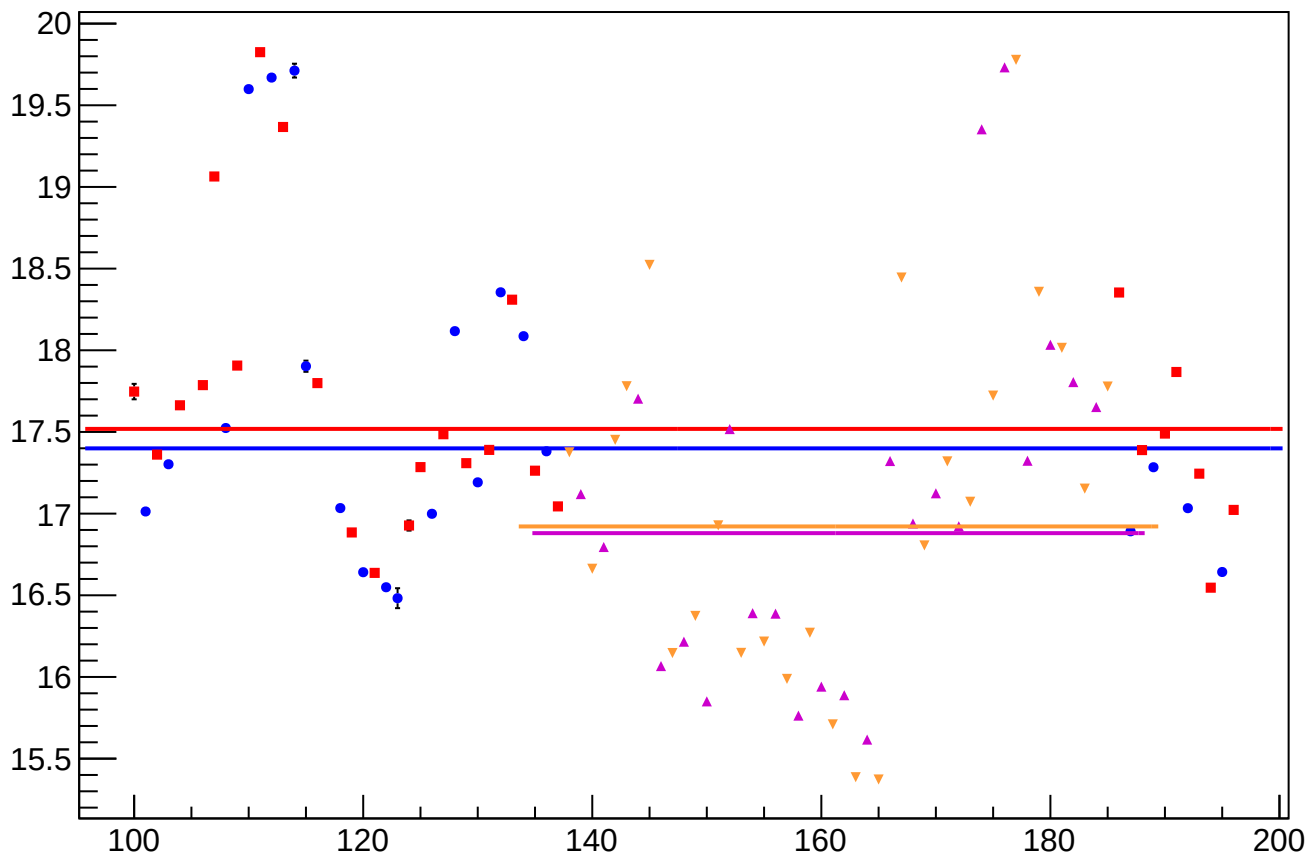
Right: -1.947 ± 3.879 χ^2/NDF : 37.7/46

In: 3.778 ± 3.323 χ^2/NDF : 44.9/43

Out: 1.763 ± 3.145 χ^2/NDF : 46.6/50

All: 2.715 ± 2.284 χ^2/NDF : 91.7/94

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.399+/-0.004 χ^2/NDF : 38965.4/20

Left Out: 16.921+/-0.003 χ^2/NDF :138990.4/24

Right Out: 17.519+/-0.004 χ^2/NDF : 41338.6/25

Left In: 16.880+/-0.003 χ^2/NDF :121736.1/22

Left: 16.901+/-0.002 χ^2/NDF : 260831.8/47

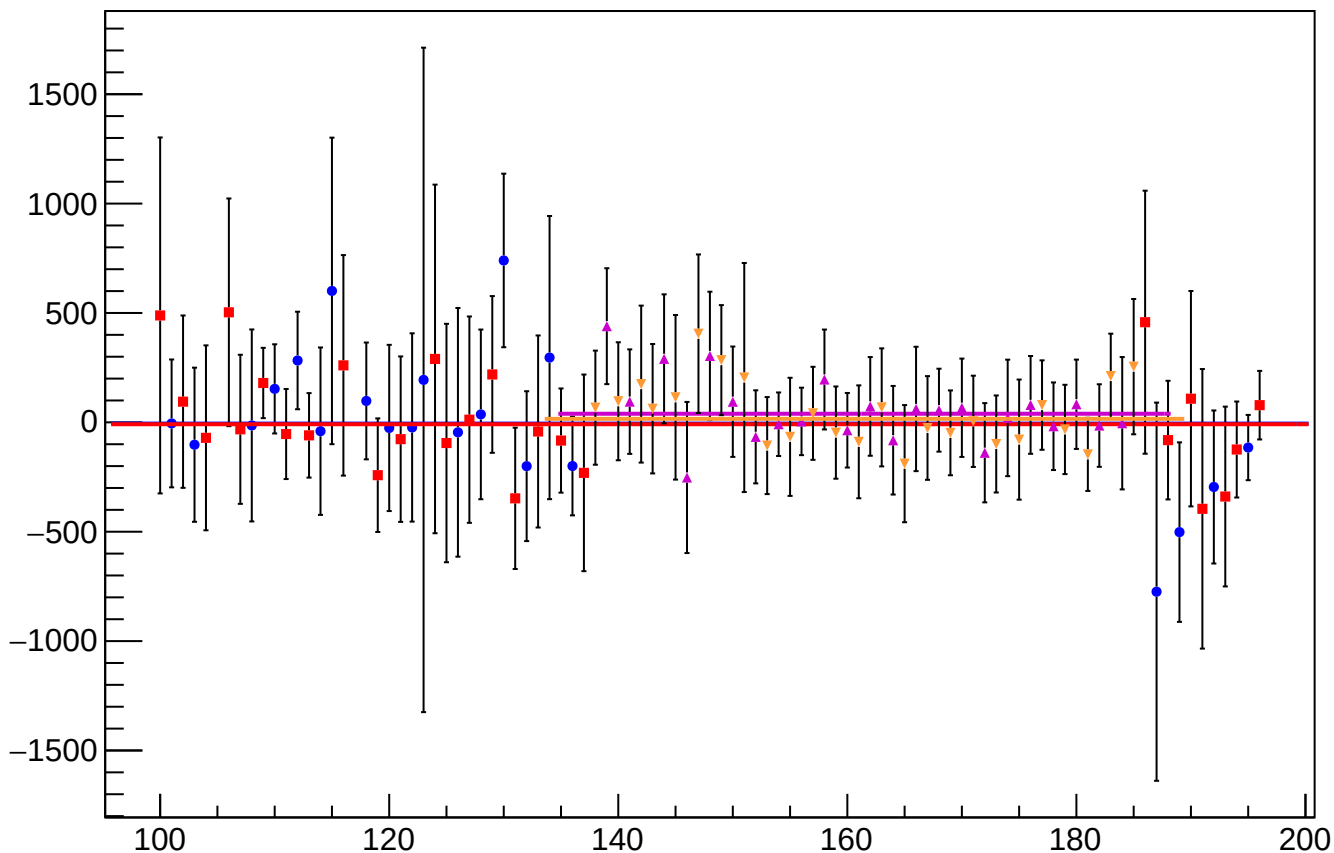
Right: 17.466+/-0.003 χ^2/NDF : 80770.7/46

In: 17.050+/-0.002 χ^2/NDF :171425.6/43

Out: 17.140+/-0.002 χ^2/NDF :197049.2/50

All: 17.097+/-0.002 χ^2/NDF : 369246.0/94

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -5.737 ± 68.707 $\chi^2/\text{NDF}: 11.6/20$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -8.613 ± 59.167 $\chi^2/\text{NDF}: 8.4/25$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

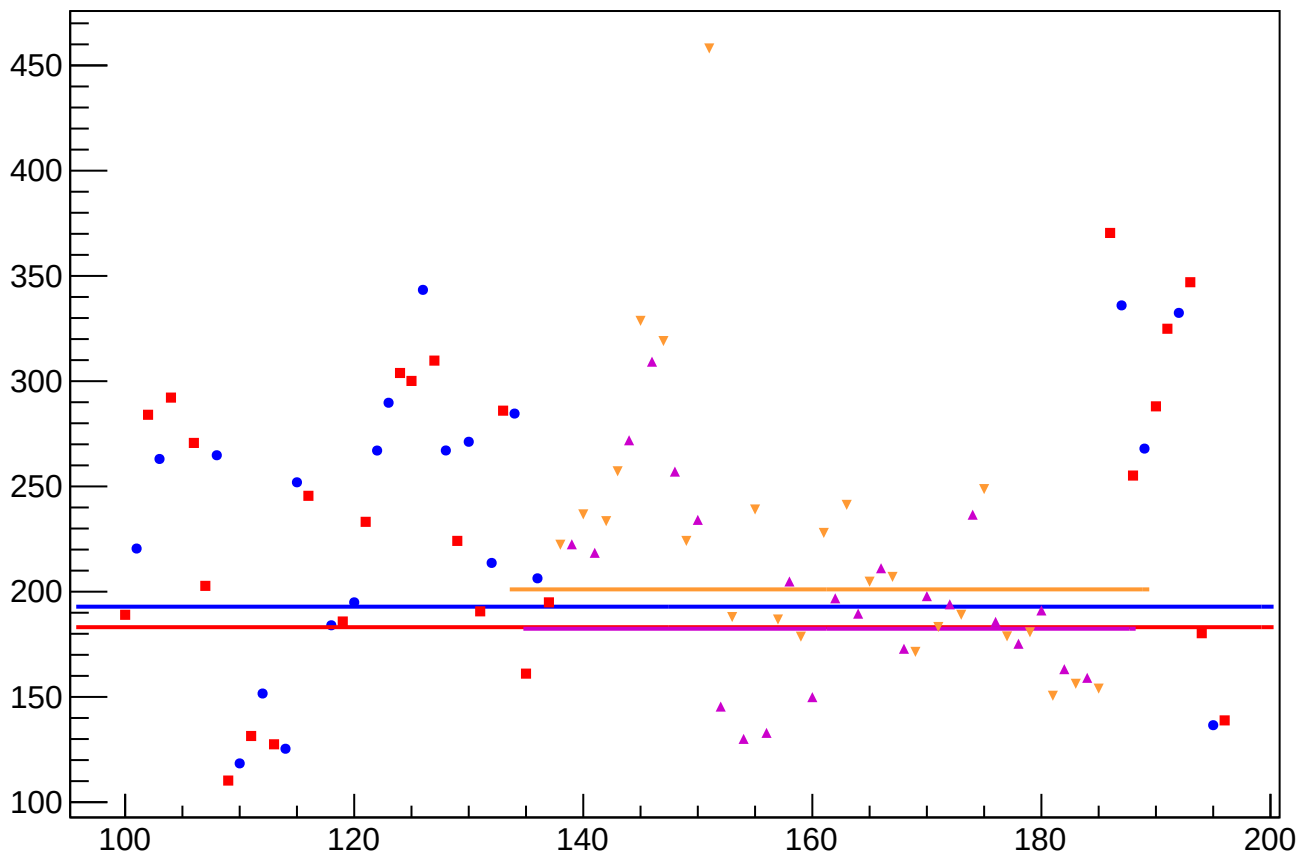
Right: -7.389 ± 44.834 $\chi^2/\text{NDF}: 20.0/46$

In: 25.594 ± 37.977 $\chi^2/\text{NDF}: 18.8/43$

Out: 6.089 ± 37.510 $\chi^2/\text{NDF}: 15.9/50$

All: 15.721 ± 26.687 $\chi^2/\text{NDF}: 34.8/94$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.874 ± 0.049 $\chi^2/\text{NDF}: 1703482.8/20$

Left Out: 201.091 ± 0.034 $\chi^2/\text{NDF}: 1731069.1/24$

Right Out: 183.135 ± 0.042 $\chi^2/\text{NDF}: 2536997.6/25$

Left In: 182.396 ± 0.032 $\chi^2/\text{NDF}: 1548907.7/22$

Left: 191.161 ± 0.023 $\chi^2/\text{NDF}: 3437793.2/47$

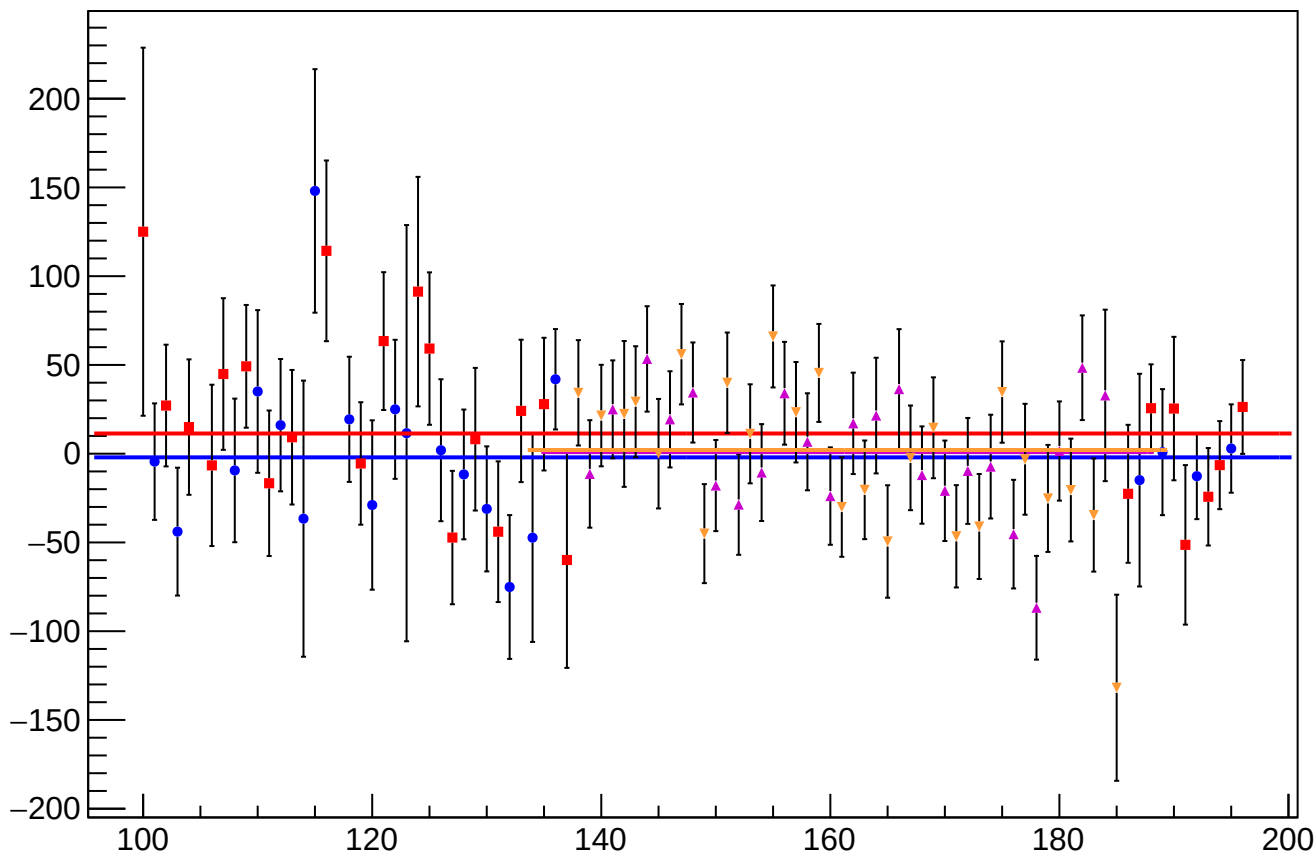
Right: 187.282 ± 0.032 $\chi^2/\text{NDF}: 4263554.5/46$

In: 185.597 ± 0.027 $\chi^2/\text{NDF}: 3284695.4/43$

Out: 193.874 ± 0.027 $\chi^2/\text{NDF}: 4378232.4/50$

All: 189.787 ± 0.019 $\chi^2/\text{NDF}: 7711015.5/94$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.065 ± 8.283 χ^2/NDF : 15.8/20

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 11.373 ± 7.288 χ^2/NDF : 24.5/25

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

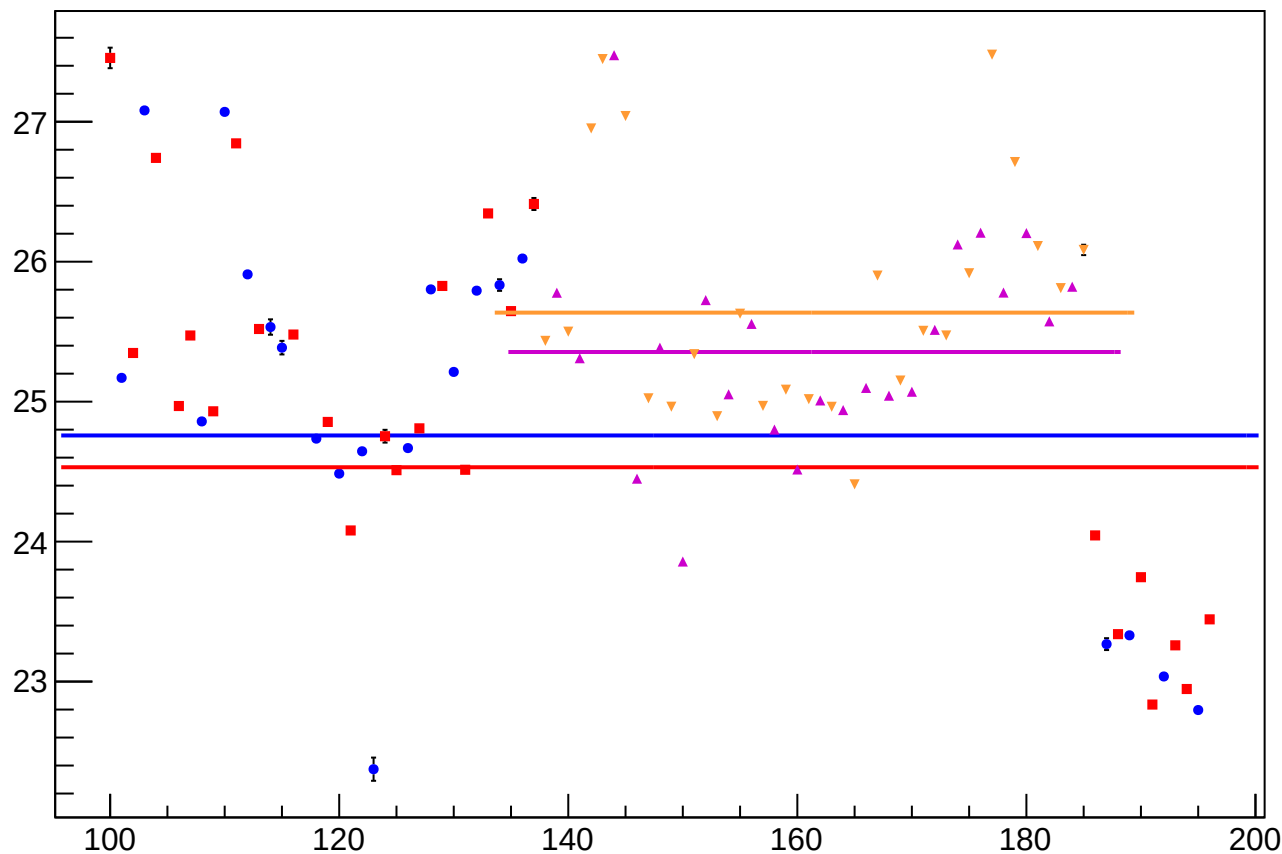
Right: 5.509 ± 5.472 χ^2/NDF : 41.7/46

In: -0.136 ± 4.896 χ^2/NDF : 42.9/43

Out: 5.796 ± 4.618 χ^2/NDF : 64.9/50

All: 3.003 ± 3.359 χ^2/NDF : 108.6/94

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.758 $\pm$ 0.006 χ^2 /NDF: 51885.1/20

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 24.531 $\pm$ 0.005 χ^2 /NDF: 54150.0/25

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

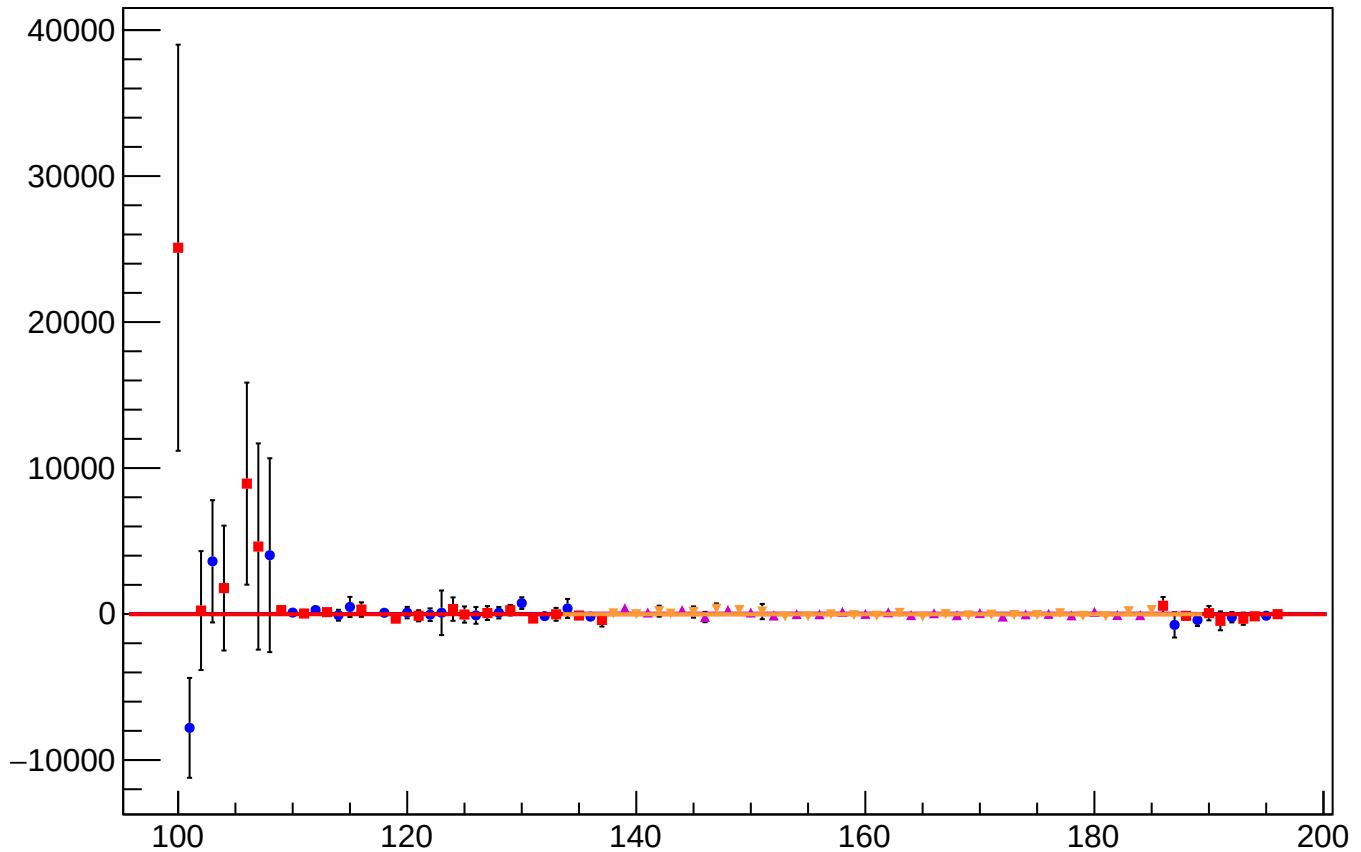
Right: 24.630 $\pm$ 0.004 χ^2 /NDF: 106882.5/46

In: 25.146 $\pm$ 0.003 χ^2 /NDF: 88396.0/43

Out: 25.192 $\pm$ 0.003 χ^2 /NDF: 116782.1/50

All: 25.171 $\pm$ 0.002 χ^2 /NDF: 205271.7/94

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 7.042 $\pm$ 73.747 χ^2 /NDF: 16.2/20

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF: 7.9/24

Right Out: -13.035 $\pm$ 64.819 χ^2 /NDF: 14.7/25

Left In: 26.836 $\pm$ 45.876 χ^2 /NDF: 7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47

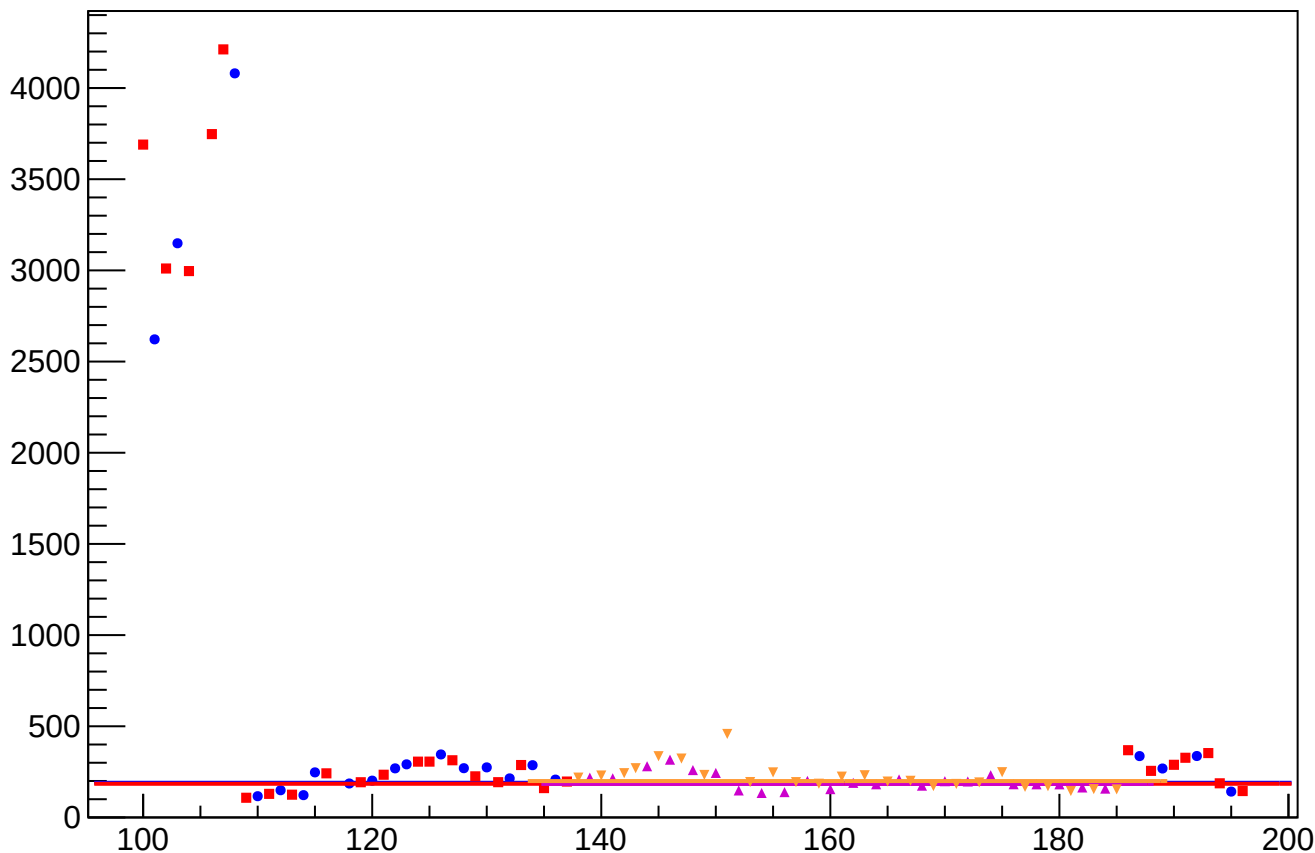
Right: -4.285 $\pm$ 48.686 χ^2 /NDF: 30.9/46

In: 21.314 $\pm$ 38.954 χ^2 /NDF: 23.7/43

Out: -12.897 $\pm$ 38.687 χ^2 /NDF: 22.6/50

All: 4.091 $\pm$ 27.450 χ^2 /NDF: 46.7/94

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.223+/-0.052 χ^2/NDF : 4243441.2/20

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 184.670+/-0.046 χ^2/NDF : 5198969.3/25

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

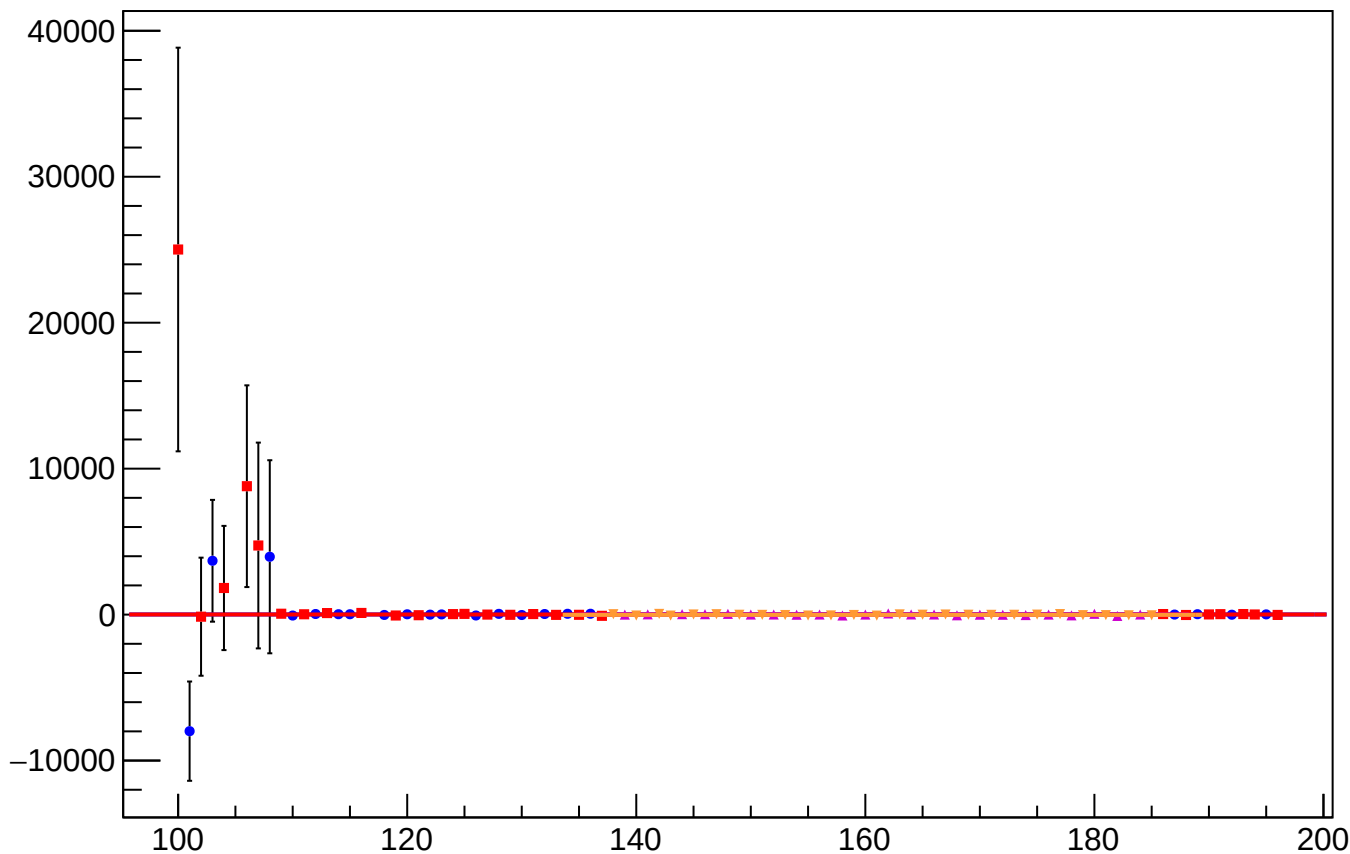
Right: 187.090+/-0.034 χ^2/NDF : 9448806.9/46

In: 185.759+/-0.028 χ^2/NDF : 5677058.9/43

Out: 194.240+/-0.027 χ^2/NDF : 7147236.9/50

All: 190.029+/-0.019 χ^2/NDF : 12872026.9/94

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.855+/-10.118 χ^2/NDF : 19.6/20

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 8.879+/-9.083 χ^2/NDF : 27.9/25

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

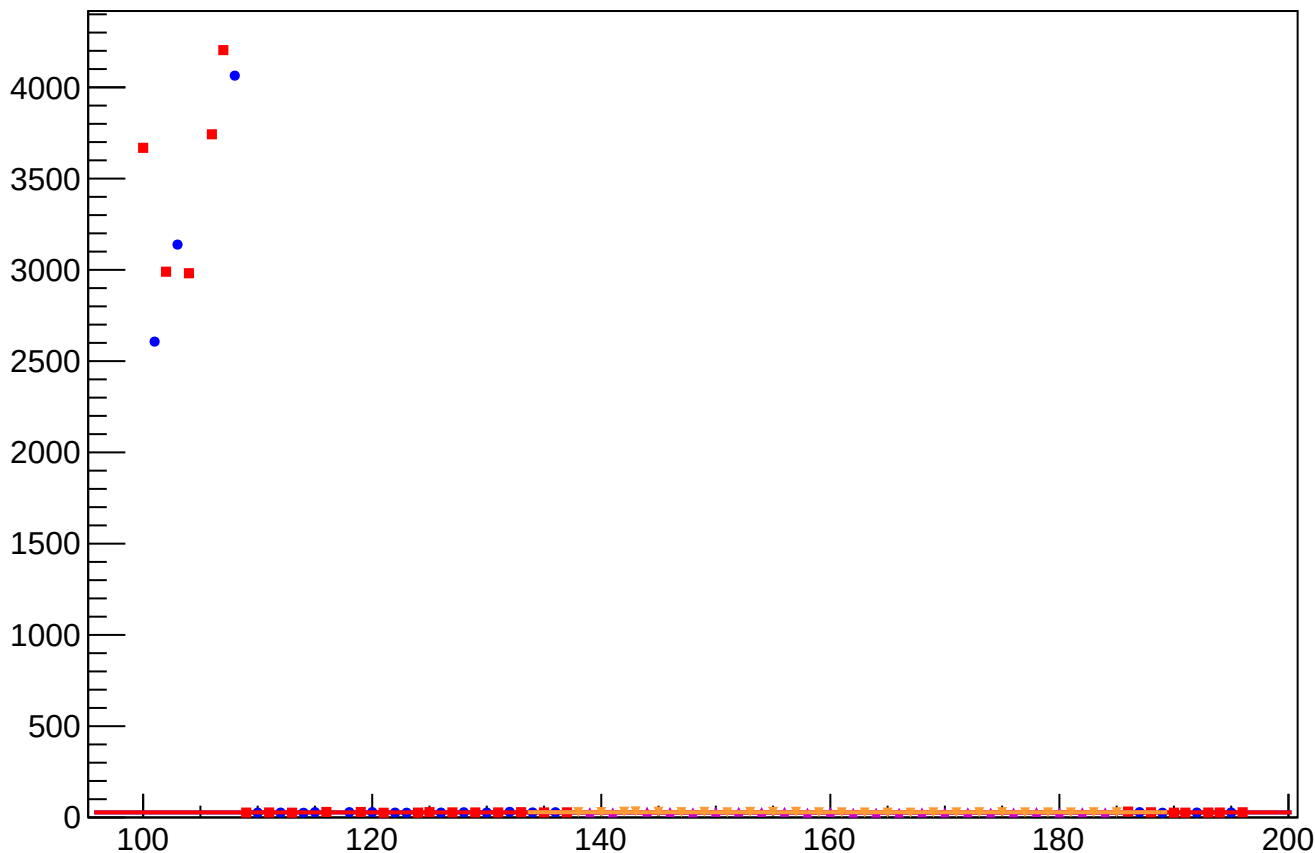
Right: 9.315+/-6.759 χ^2/NDF : 47.5/46

In: 3.825+/-5.690 χ^2/NDF : 52.5/43

Out: -8.267+/-5.388 χ^2/NDF : 55.8/50

All: -2.549+/-3.912 χ^2/NDF : 110.7/94

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.601 $\pm$ 0.007 χ^2 /NDF: 3034202.2/20

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.700 $\pm$ 0.006 χ^2 /NDF: 3500156.0/25

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

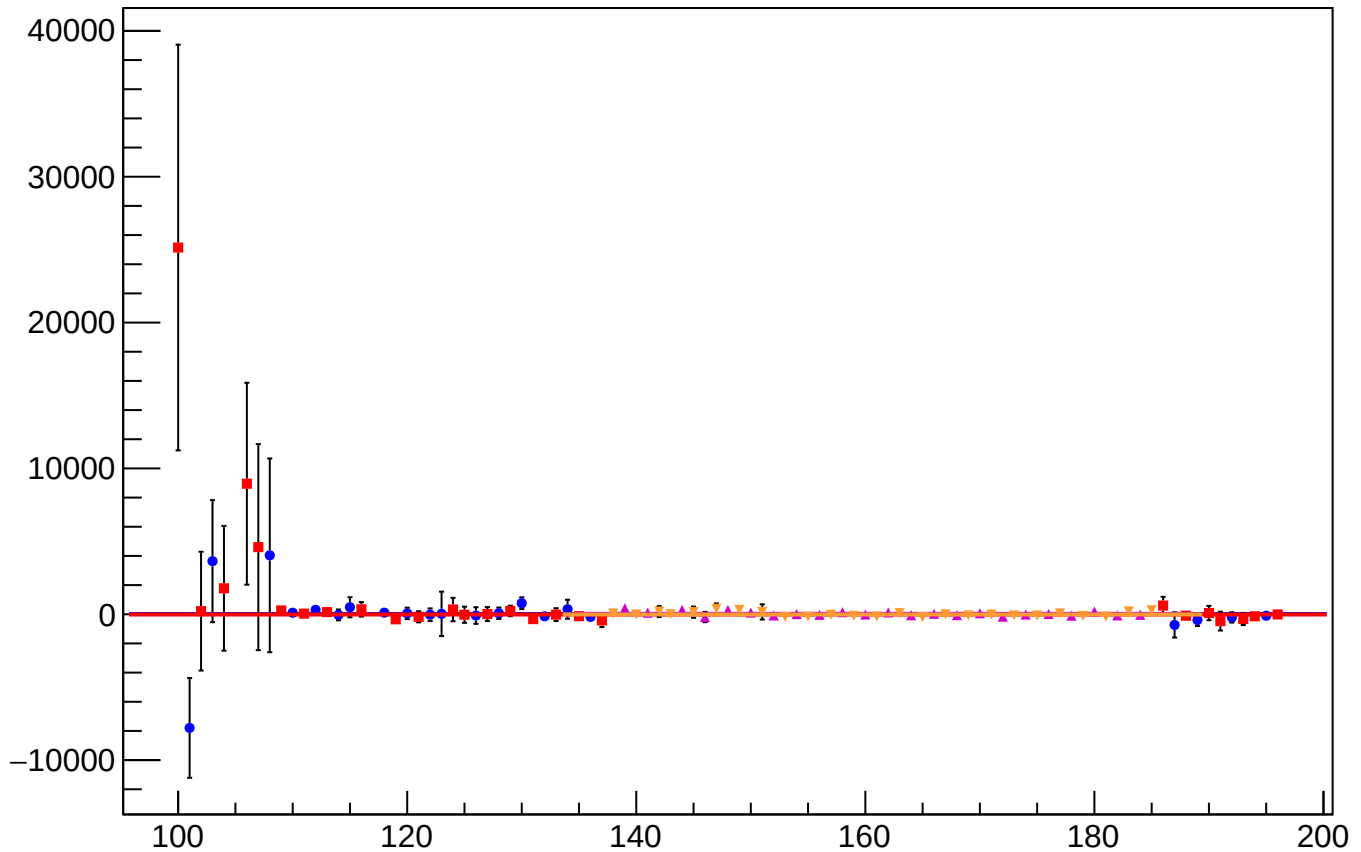
Right: 27.656 $\pm$ 0.005 χ^2 /NDF: 6534463.0/46

In: 28.334 $\pm$ 0.004 χ^2 /NDF: 3174287.5/43

Out: 28.342 $\pm$ 0.004 χ^2 /NDF: 3626069.3/50

All: 28.338 $\pm$ 0.003 χ^2 /NDF: 6800358.9/94

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 14.303+/-73.537 χ^2/NDF : 16.3/20

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -16.570+/-64.636 χ^2/NDF : 15.4/25

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

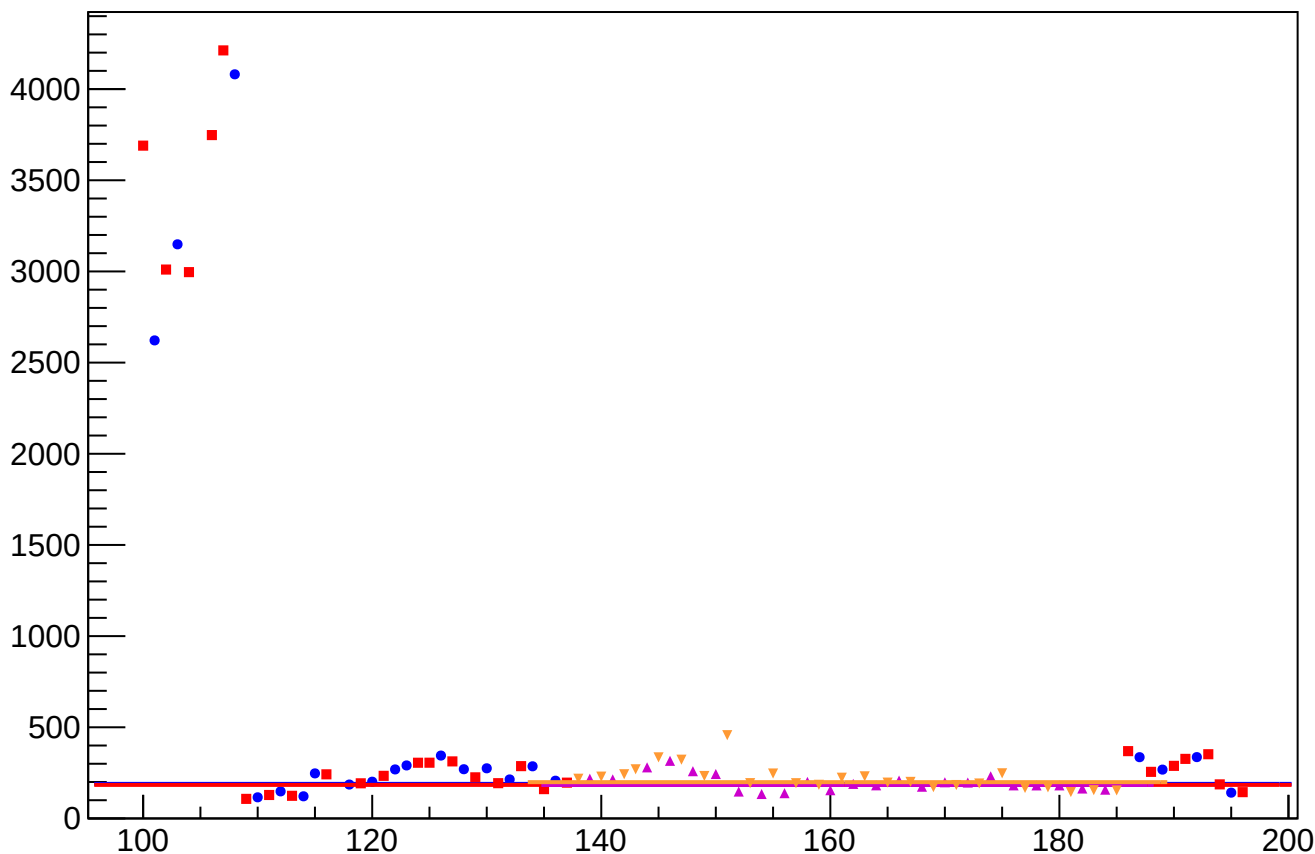
Right: -3.114+/-48.548 χ^2/NDF : 31.8/46

In: 23.460+/-38.867 χ^2/NDF : 24.1/43

Out: -15.870+/-38.592 χ^2/NDF : 24.1/50

All: 3.655+/-27.386 χ^2/NDF : 48.7/94

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 189.596 $\pm$ 0.052 χ^2 /NDF: 4256199.1/20

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 184.053 $\pm$ 0.046 χ^2 /NDF: 5217026.0/25

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

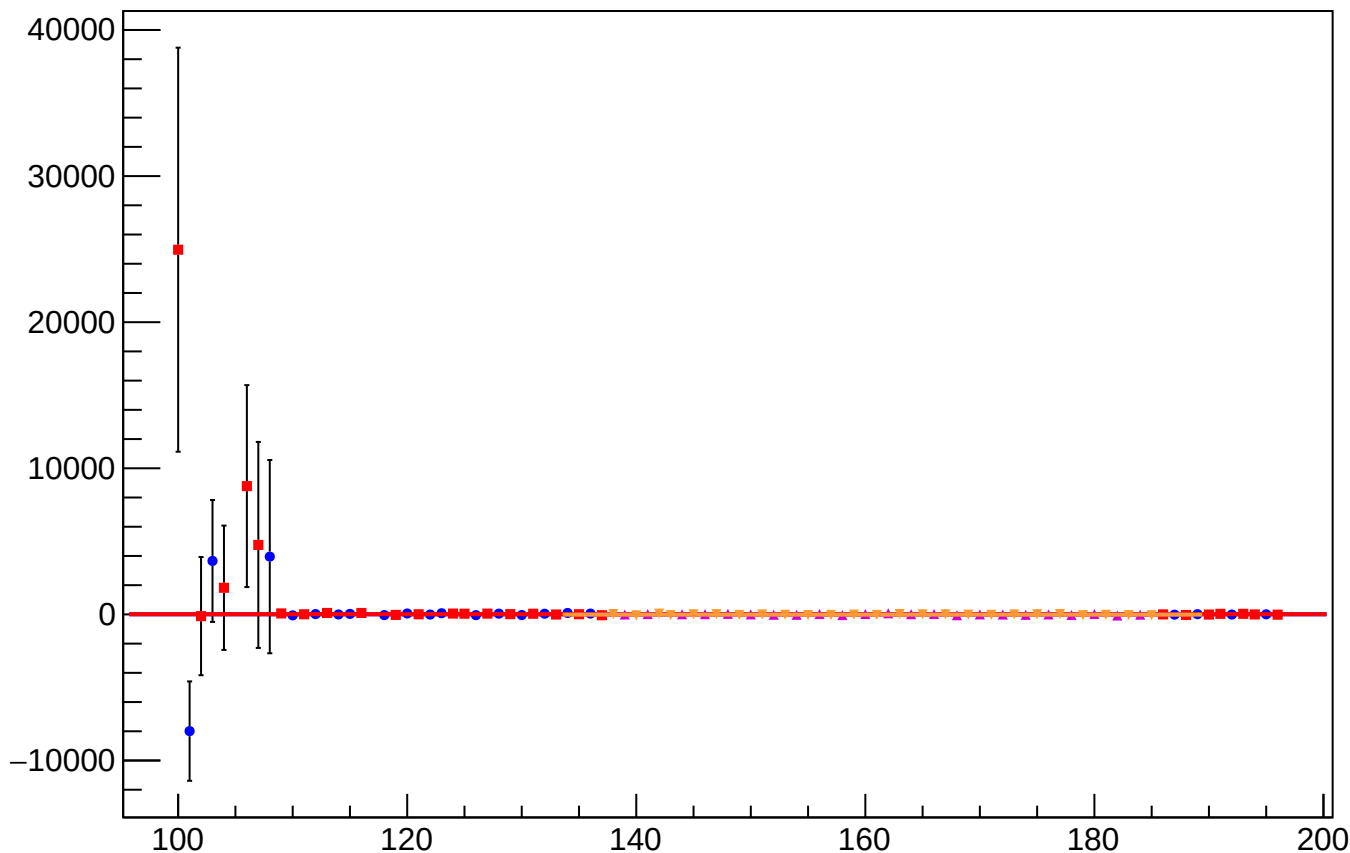
Right: 186.469 $\pm$ 0.034 χ^2 /NDF: 9479636.8/46

In: 185.323 $\pm$ 0.027 χ^2 /NDF:5688463.7/43

Out: 193.732 $\pm$ 0.027 χ^2 /NDF:7167063.2/50

All: 189.557 $\pm$ 0.019 χ^2 /NDF: 12902659.6/94

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.287+/-10.161 χ^2/NDF : 23.4/20

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 13.815+/-9.111 χ^2/NDF : 23.8/25

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

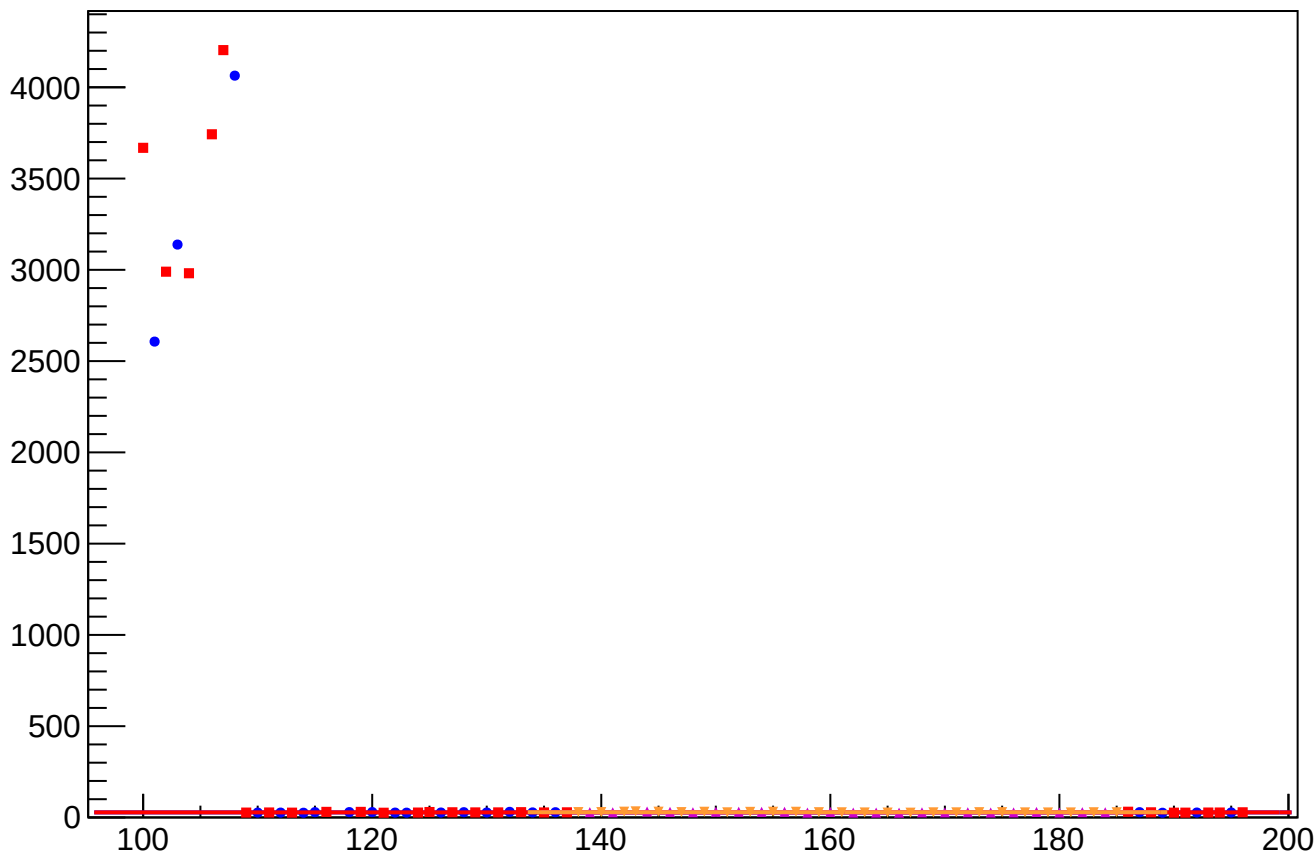
Right: 10.014+/-6.783 χ^2/NDF : 47.5/46

In: 1.191+/-5.714 χ^2/NDF :50.0/43

Out: -4.844+/-5.410 χ^2/NDF :47.7/50

All: -1.991+/-3.928 χ^2/NDF : 98.3/94

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.713 $\pm$ 0.007 χ^2 /NDF: 3036622.3/20

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.785 $\pm$ 0.006 χ^2 /NDF: 3497755.1/25

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

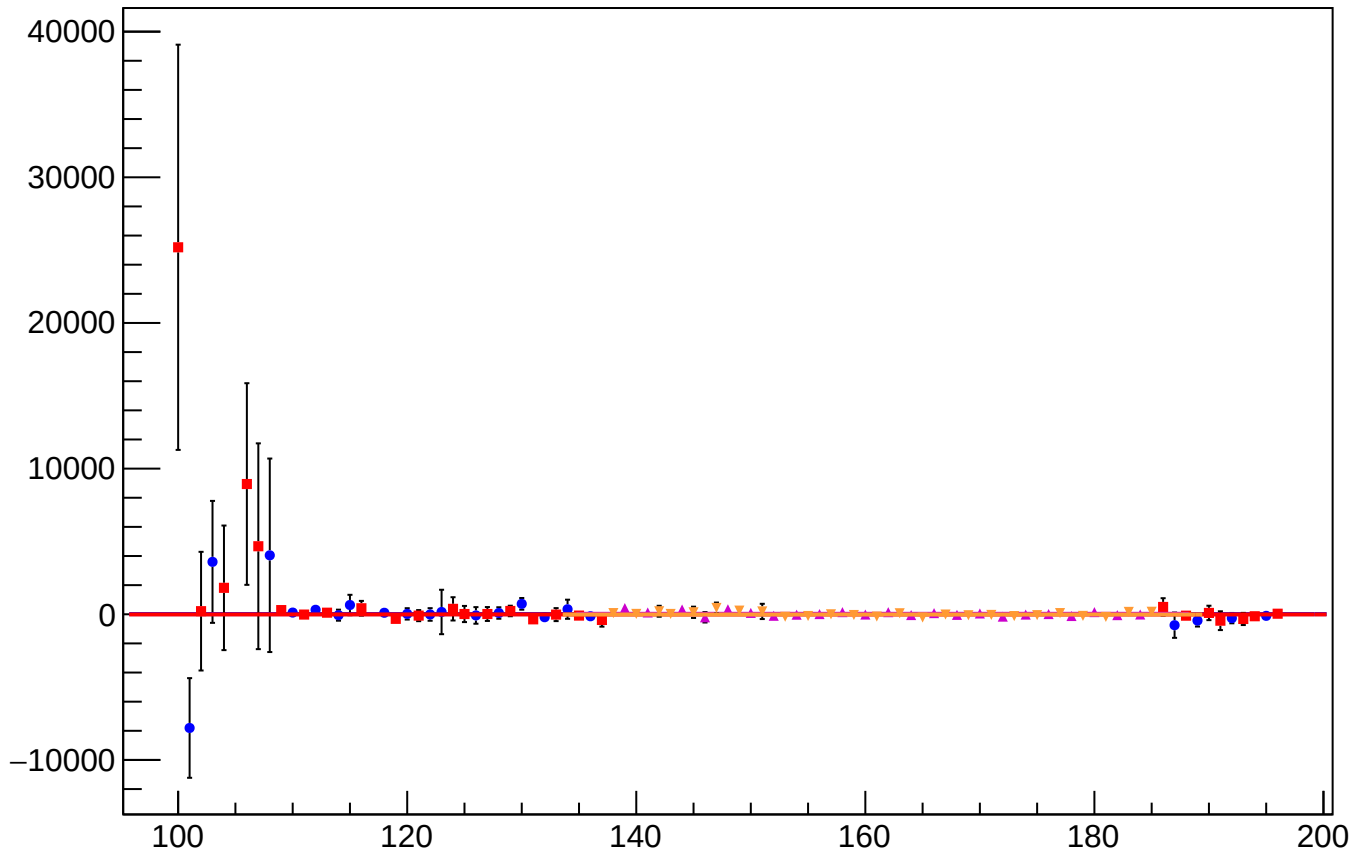
Right: 27.753 $\pm$ 0.005 χ^2 /NDF: 6534433.5/46

In: 28.451 $\pm$ 0.004 χ^2 /NDF: 3181448.1/43

Out: 28.450 $\pm$ 0.004 χ^2 /NDF: 3636193.4/50

All: 28.451 $\pm$ 0.003 χ^2 /NDF: 6817641.5/94

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 12.803+/-74.171 χ^2/NDF : 16.7/20

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -10.161+/-65.308 χ^2/NDF : 14.6/25

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

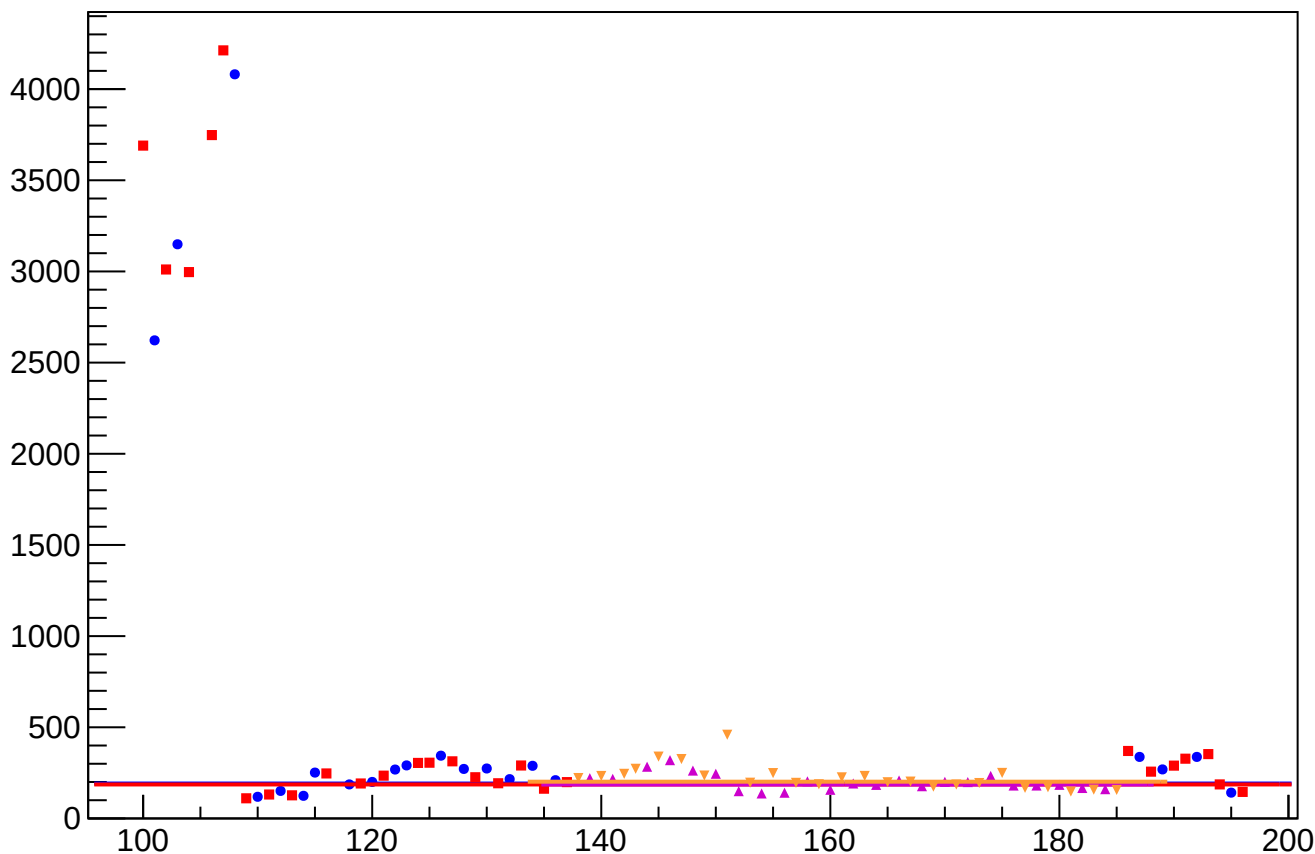
Right: -0.132+/-49.015 χ^2/NDF : 31.3/46

In: 26.010+/-39.312 χ^2/NDF : 24.9/43

Out: -13.623+/-39.034 χ^2/NDF : 22.6/50

All: 6.053+/-27.699 χ^2/NDF : 48.0/94

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.505 $\pm$ 0.052 χ^2 /NDF: 4215358.6/20

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 186.423 $\pm$ 0.046 χ^2 /NDF: 5141281.5/25

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

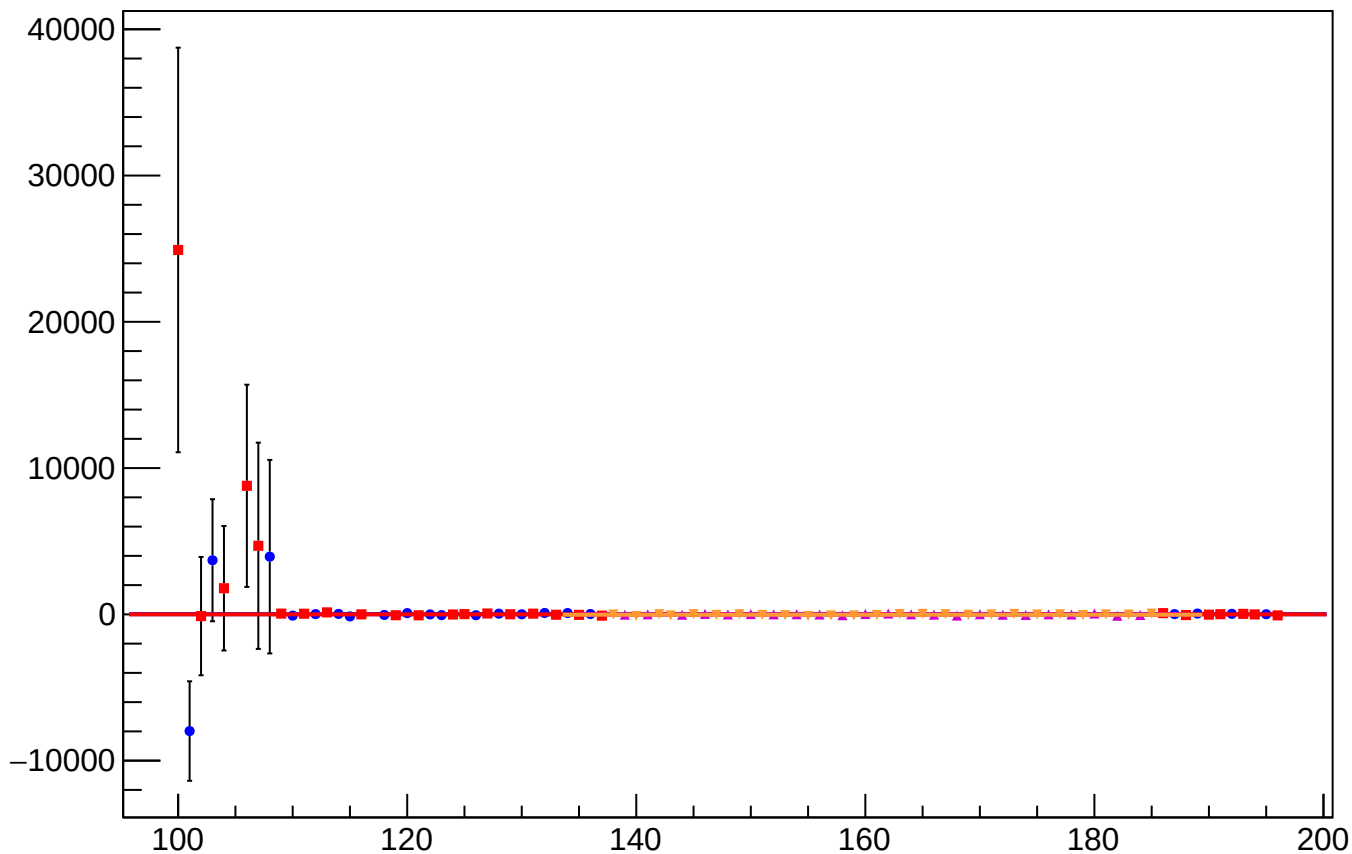
Right: 188.642 $\pm$ 0.035 χ^2 /NDF: 9361930.1/46

In: 187.623 $\pm$ 0.028 χ^2 /NDF:5614303.6/43

Out: 196.178 $\pm$ 0.028 χ^2 /NDF:7068165.0/50

All: 191.931 $\pm$ 0.020 χ^2 /NDF: 12730158.1/94

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.244+/-12.395 χ^2/NDF : 21.6/20

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 1.373+/-11.092 χ^2/NDF : 29.8/25

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

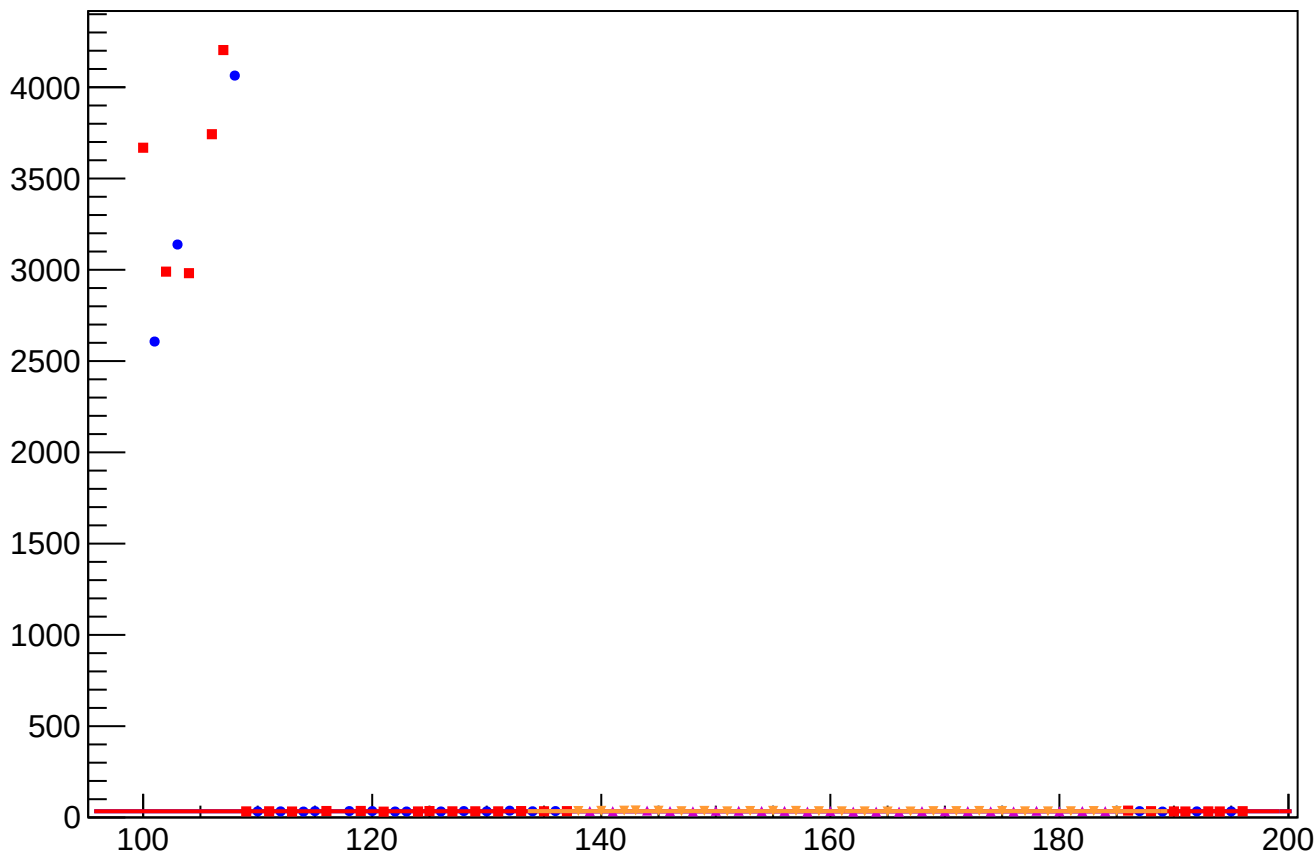
Right: 7.096+/-8.265 χ^2/NDF : 52.0/46

In: 0.276+/-6.901 χ^2/NDF : 44.5/43

Out: -14.807+/-6.523 χ^2/NDF : 58.9/50

All: -7.691+/-4.740 χ^2/NDF : 106.0/94

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.837 $\pm$ 0.009 χ^2 /NDF: 3011034.2/20

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.889 $\pm$ 0.008 χ^2 /NDF: 3462384.1/25

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

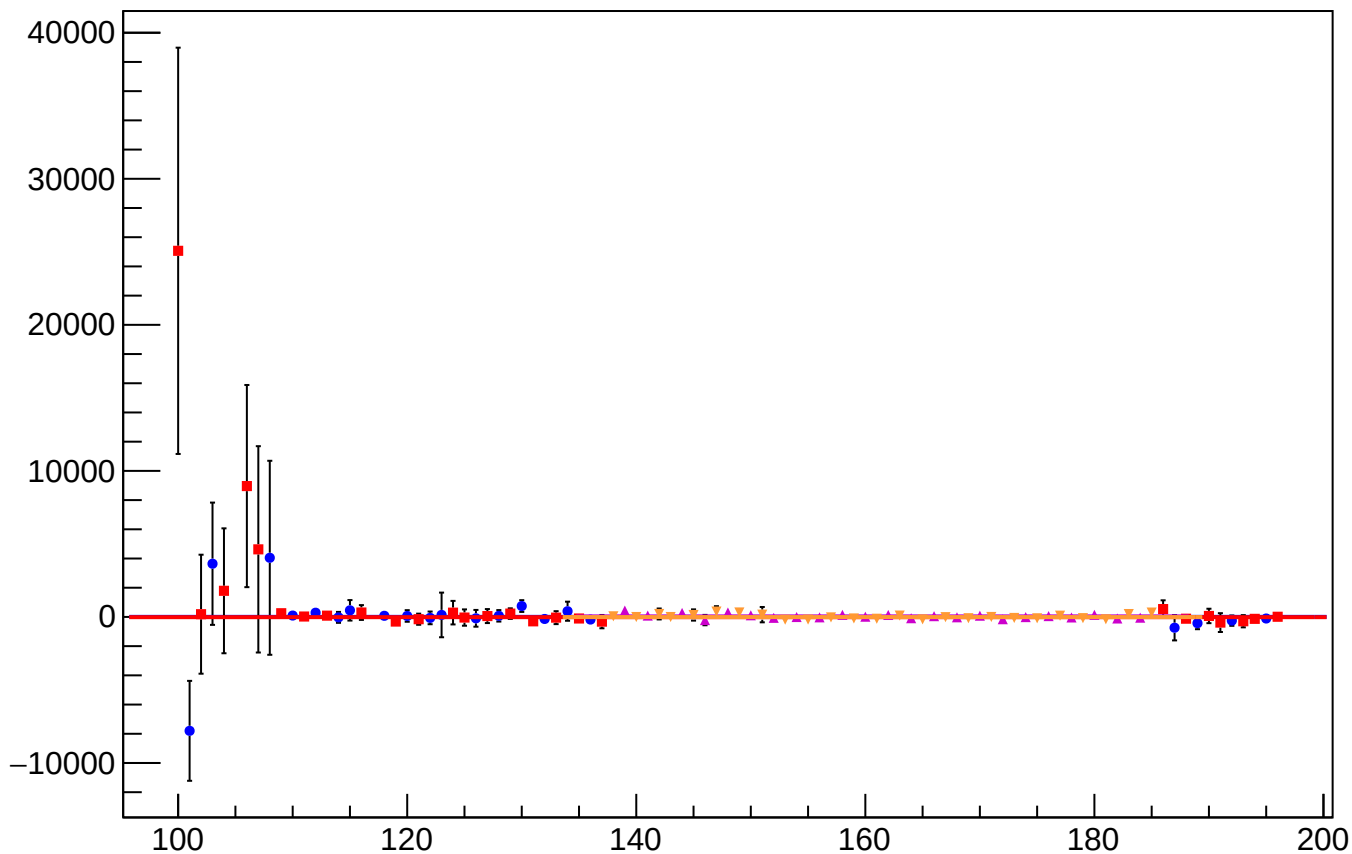
Right: 33.866 $\pm$ 0.006 χ^2 /NDF: 6473437.8/46

In: 34.422 $\pm$ 0.005 χ^2 /NDF: 3077804.7/43

Out: 34.364 $\pm$ 0.005 χ^2 /NDF: 3525921.6/50

All: 34.391 $\pm$ 0.003 χ^2 /NDF: 6603802.4/94

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 5.085+/-73.902 χ^2/NDF : 16.3/20

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -16.165+/-64.977 χ^2/NDF : 13.3/25

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

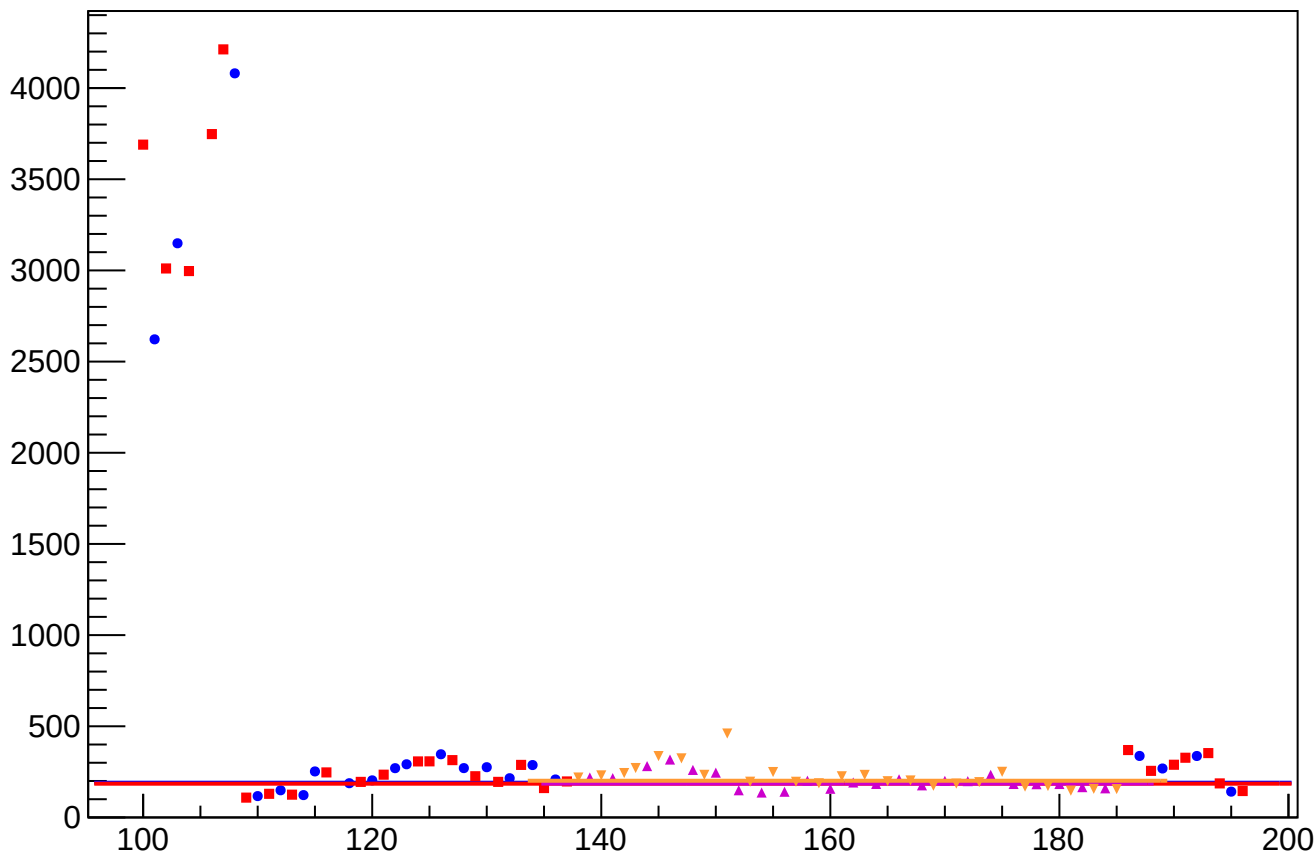
Right: -6.900+/-48.798 χ^2/NDF : 29.6/46

In: 25.942+/-39.234 χ^2/NDF : 23.8/43

Out: -11.518+/-38.926 χ^2/NDF : 21.9/50

All: 7.065+/-27.633 χ^2/NDF : 46.2/94

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.591+/-0.052 χ^2/NDF : 4249957.9/20

Left Out: 201.296+/-0.034 χ^2/NDF : 1851134.1/24

Right Out: 185.145+/-0.046 χ^2/NDF : 5198427.5/25

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

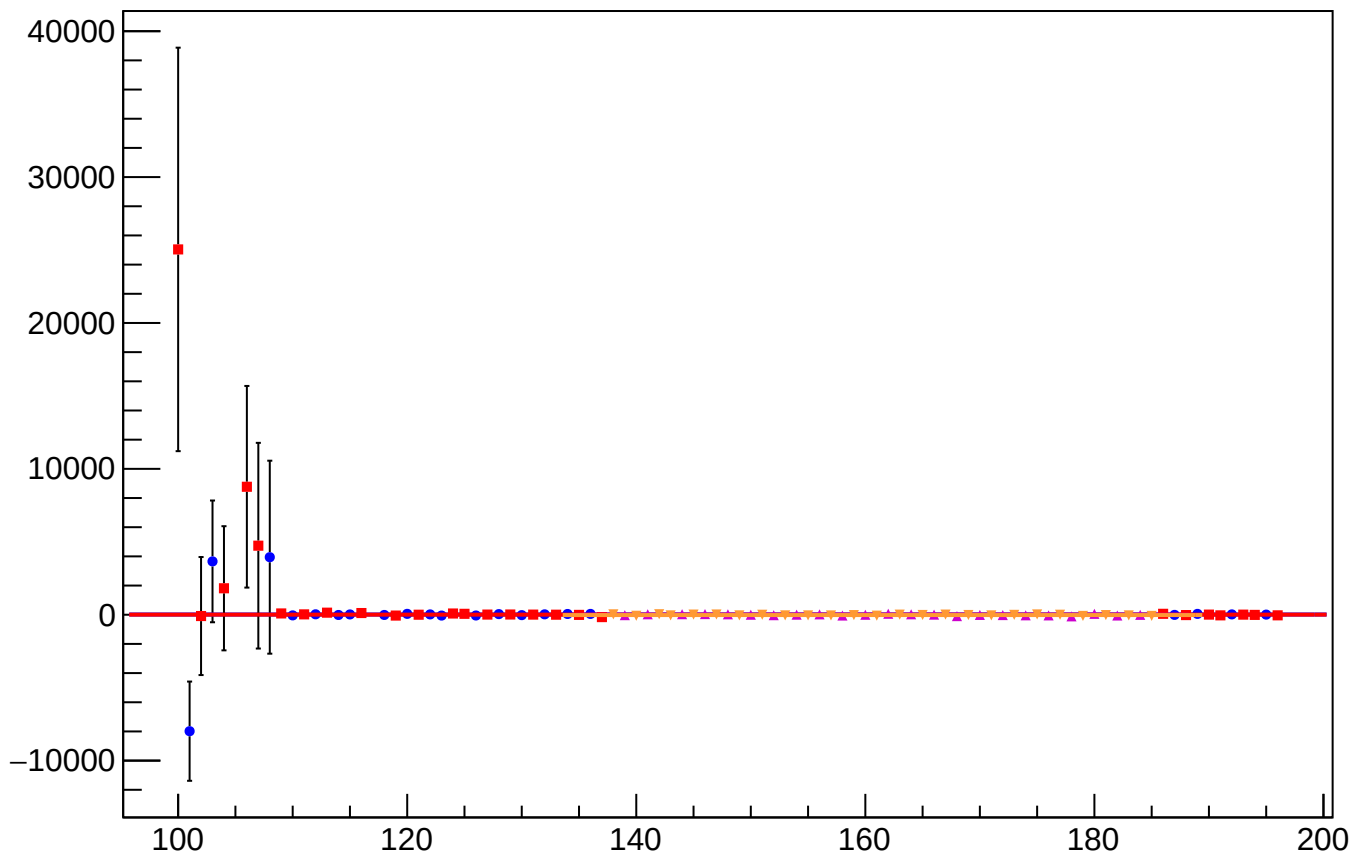
Right: 187.519+/-0.035 χ^2/NDF : 9454511.7/46

In: 187.189+/-0.028 χ^2/NDF : 5637631.7/43

Out: 195.500+/-0.028 χ^2/NDF : 7128787.9/50

All: 191.377+/-0.020 χ^2/NDF : 12811644.9/94

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 15.887+/-11.250 χ^2/NDF : 15.7/20

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 6.924+/-10.067 χ^2/NDF : 33.9/25

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

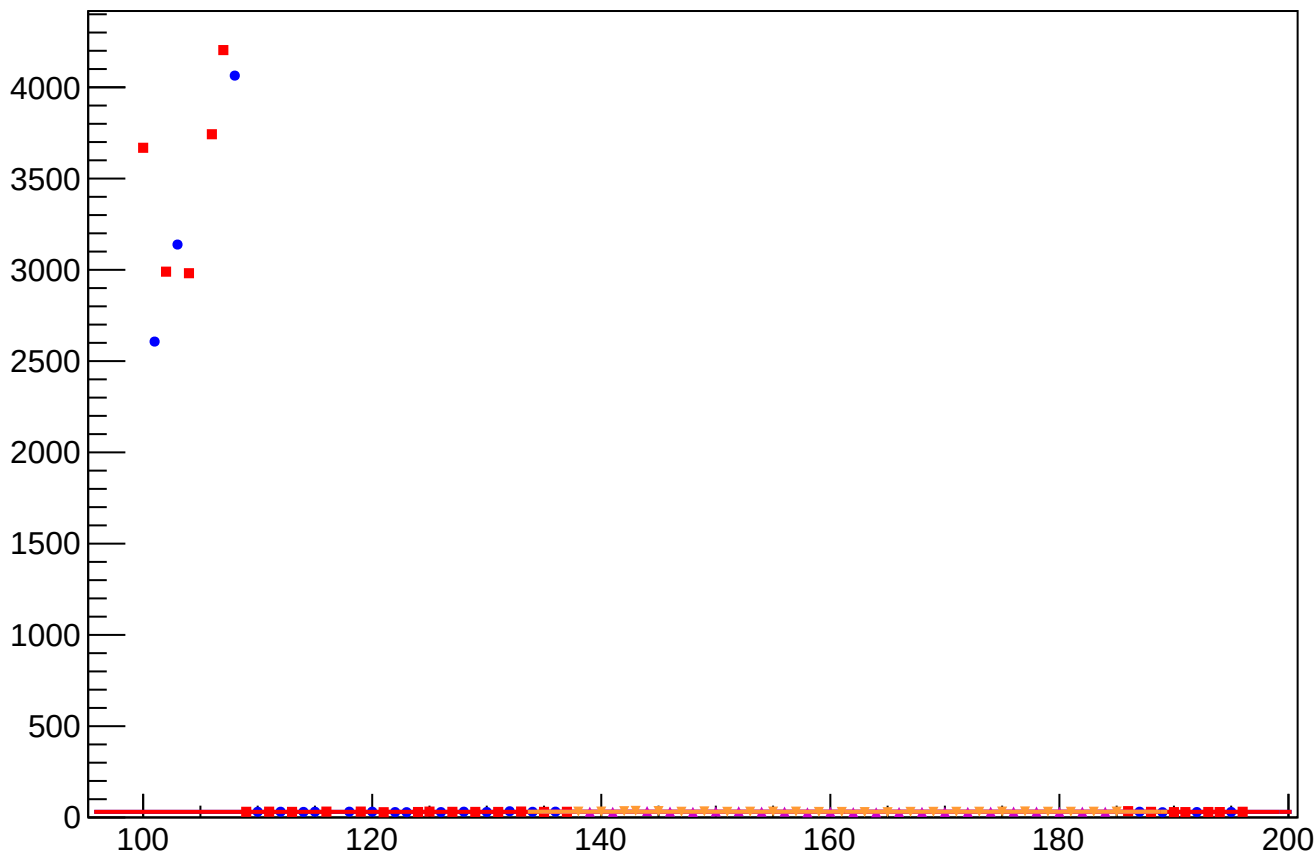
Right: 10.910+/-7.502 χ^2/NDF : 49.9/46

In: 0.835+/-6.269 χ^2/NDF : 56.7/43

Out: -12.534+/-5.931 χ^2/NDF : 58.3/50

All: -6.220+/-4.308 χ^2/NDF : 117.4/94

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.706 $\pm$ 0.008 χ^2 /NDF: 3023811.1/20

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.729 $\pm$ 0.007 χ^2 /NDF: 3475769.3/25

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

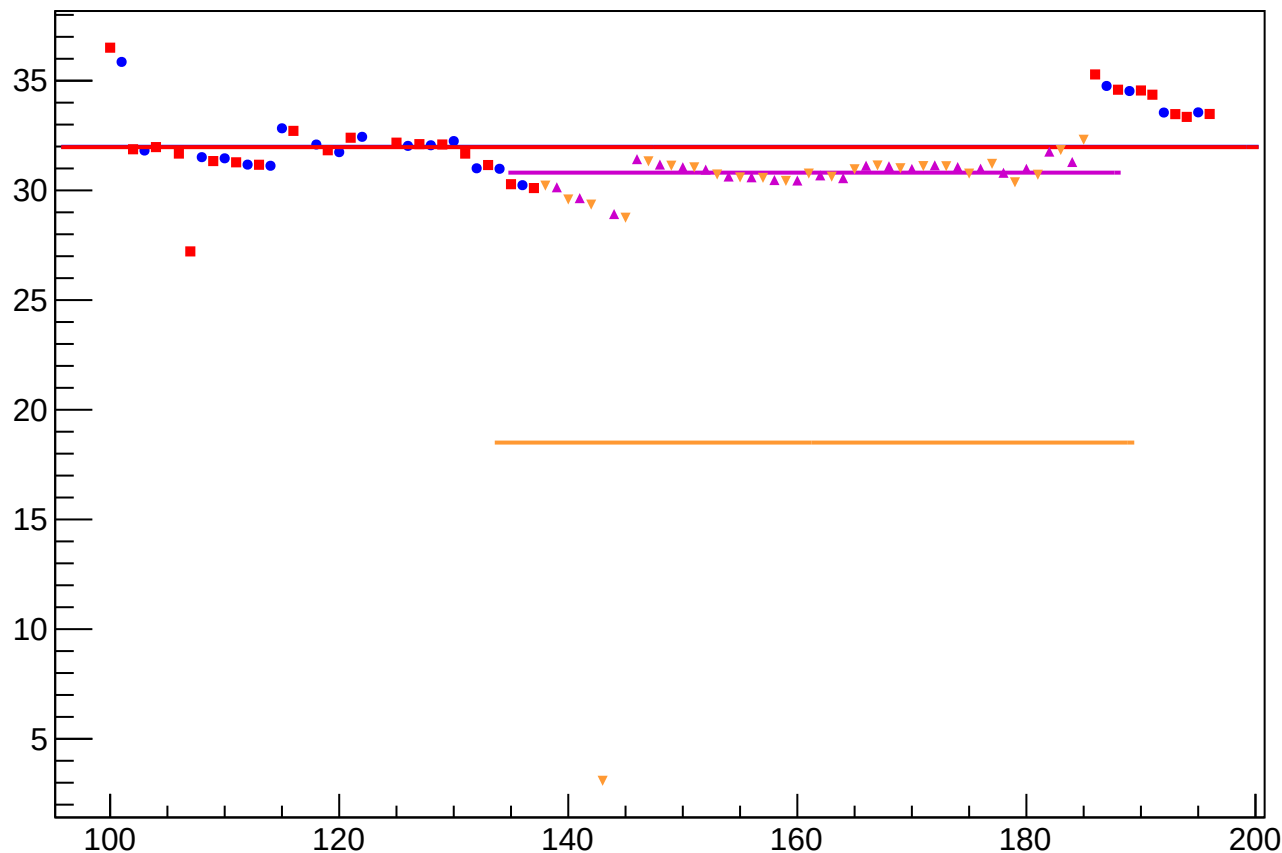
Right: 30.719 $\pm$ 0.005 χ^2 /NDF: 6499585.3/46

In: 31.243 $\pm$ 0.004 χ^2 /NDF:3118398.1/43

Out: 31.221 $\pm$ 0.004 χ^2 /NDF:3565500.1/50

All: 31.231 $\pm$ 0.003 χ^2 /NDF: 6683911.4/94

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.988+/-0.000 χ^2/NDF : 1975182673.8/19

Left Out: 18.505+/-0.000 χ^2/NDF : 940607632746.3/24

Right Out: 31.971+/-0.000 χ^2/NDF : 1886622865.3/24

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 22.806+/-0.000 χ^2/NDF : 1203928236724.3/47

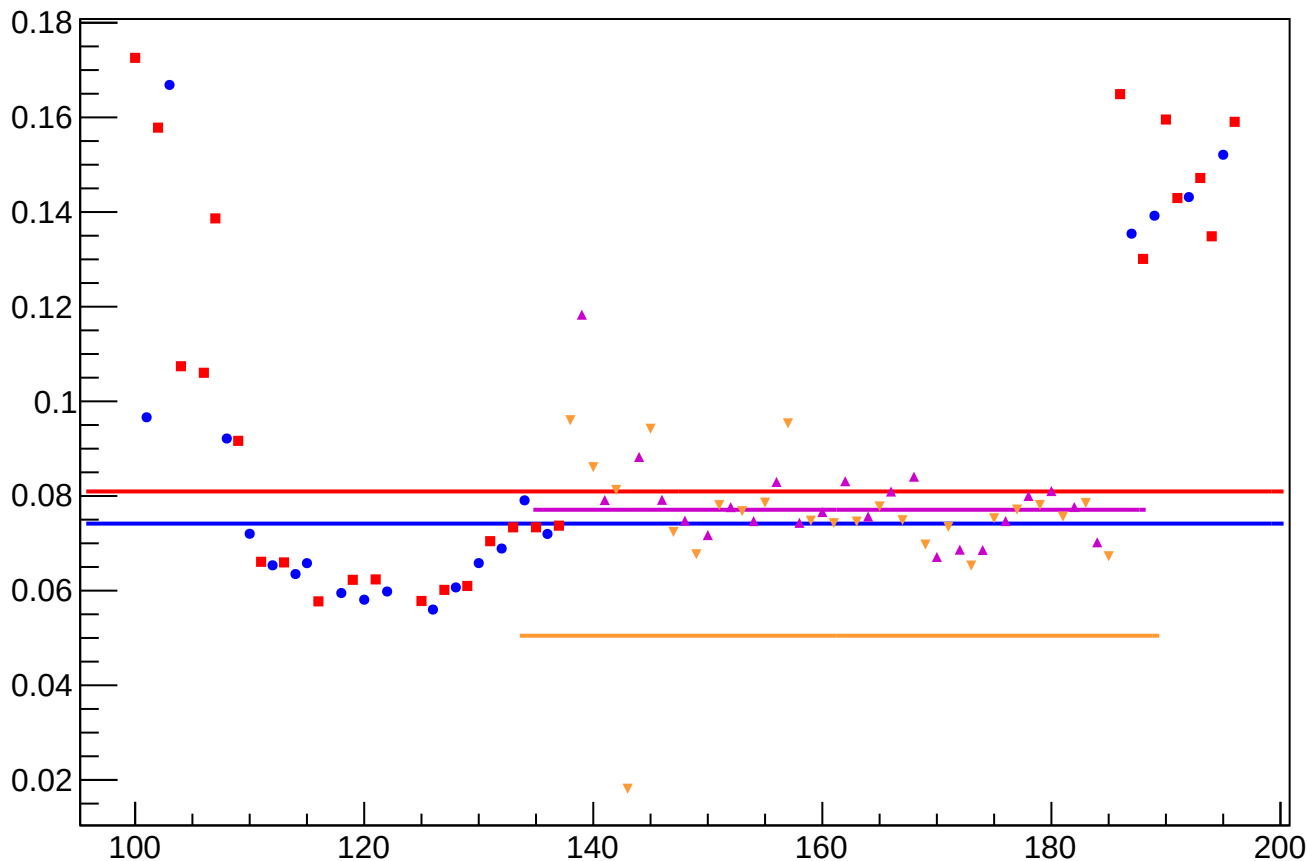
Right: 31.979+/-0.000 χ^2/NDF : 3862007642.7/44

In: 31.206+/-0.000 χ^2/NDF : 4043529371.2/42

Out: 21.444+/-0.000 χ^2/NDF : 1138778722272.0/49

All: 25.229+/-0.000 χ^2/NDF : 1377239393972

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 1810099.0/19

Left Out: 0.050 $\pm$ 0.000 χ^2 /NDF:8543648.6/24

Right Out: 0.081 $\pm$ 0.000 χ^2 /NDF: 2706203.3/24

Left In: 0.077 $\pm$ 0.000 χ^2 /NDF:325844.3/22

Left: 0.060 $\pm$ 0.000 χ^2 /NDF: 11325451.9/47

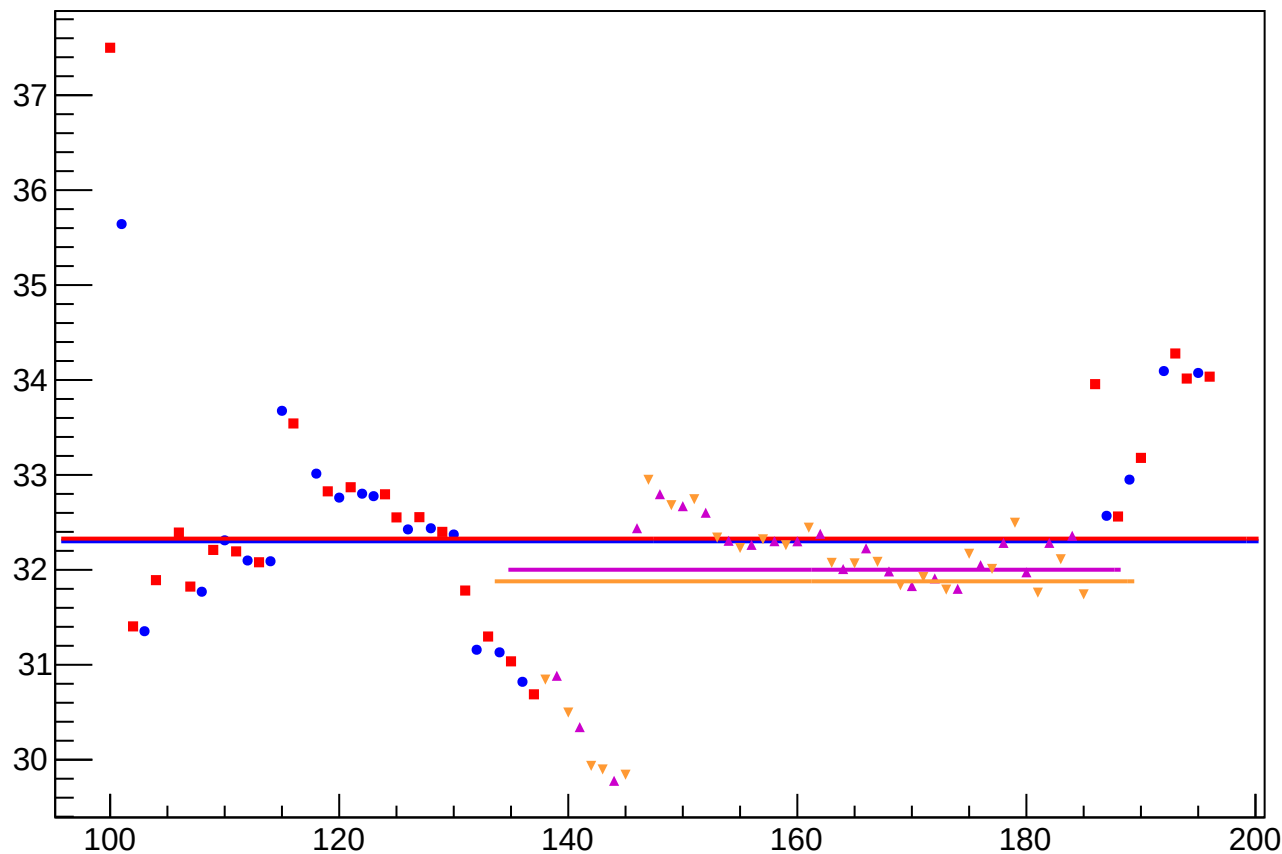
Right: 0.078 $\pm$ 0.000 χ^2 /NDF: 4579355.9/44

In: 0.076 $\pm$ 0.000 χ^2 /NDF:2151278.5/42

Out: 0.057 $\pm$ 0.000 χ^2 /NDF:13260867.6/49

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 17183893.5/92

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.301 ± 0.000 $\chi^2/\text{NDF}: 1144033929.1/20$

Left Out: 31.879 ± 0.000 $\chi^2/\text{NDF}: 1976281391.1/24$

Right Out: 32.329 ± 0.000 $\chi^2/\text{NDF}: 684735088.6/24$

Left In: 32.001 ± 0.000 $\chi^2/\text{NDF}: 1411110671.9/22$

Left: 31.939 ± 0.000 $\chi^2/\text{NDF}: 3408370857.8/47$

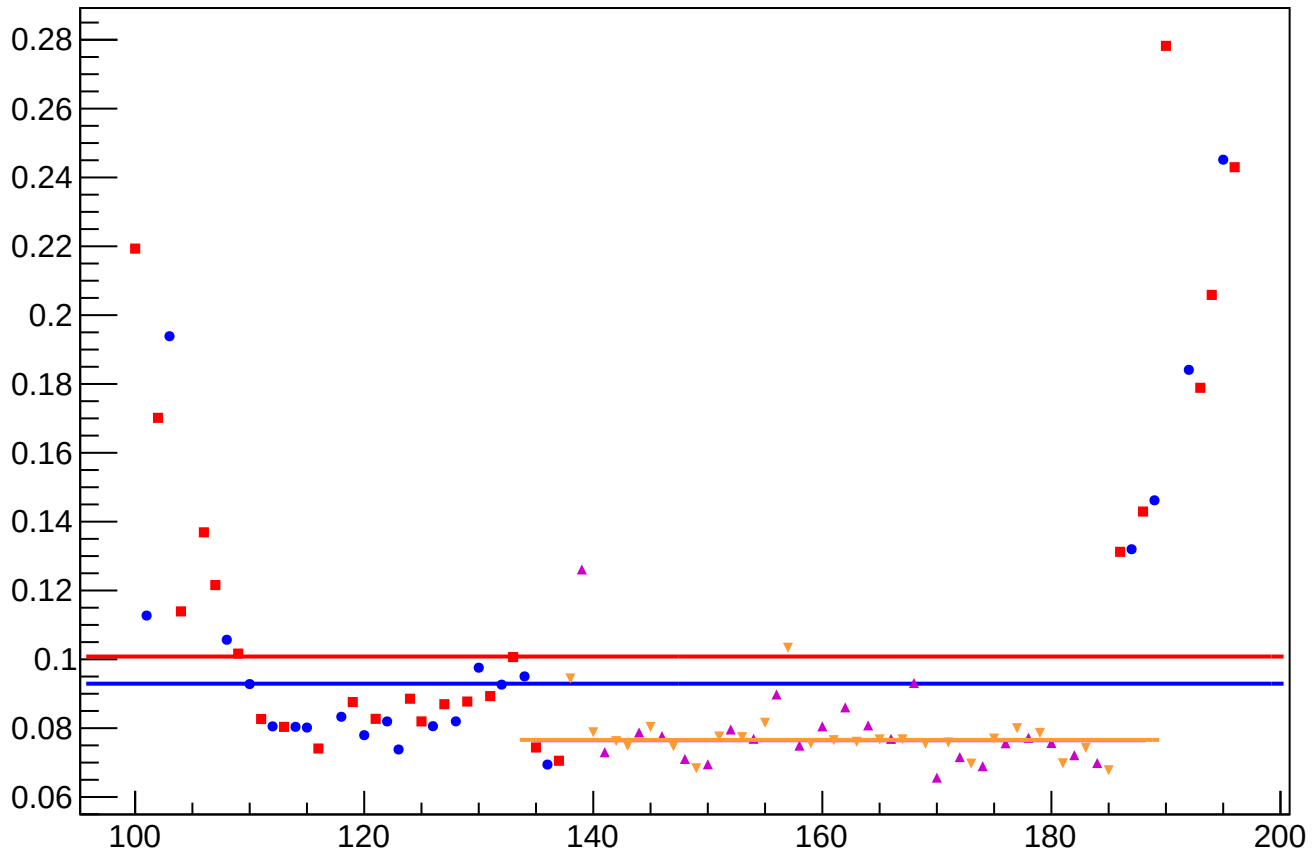
Right: 32.315 ± 0.000 $\chi^2/\text{NDF}: 1829111155.9/45$

In: 32.072 ± 0.000 $\chi^2/\text{NDF}: 2613338018.3/43$

Out: 31.985 ± 0.000 $\chi^2/\text{NDF}: 2797759185.1/49$

All: 32.027 ± 0.000 $\chi^2/\text{NDF}: 5425084463.8/9$

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.093+/-0.000 χ^2/NDF : 1788339.5/20

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.101+/-0.000 χ^2/NDF : 2390437.7/24

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

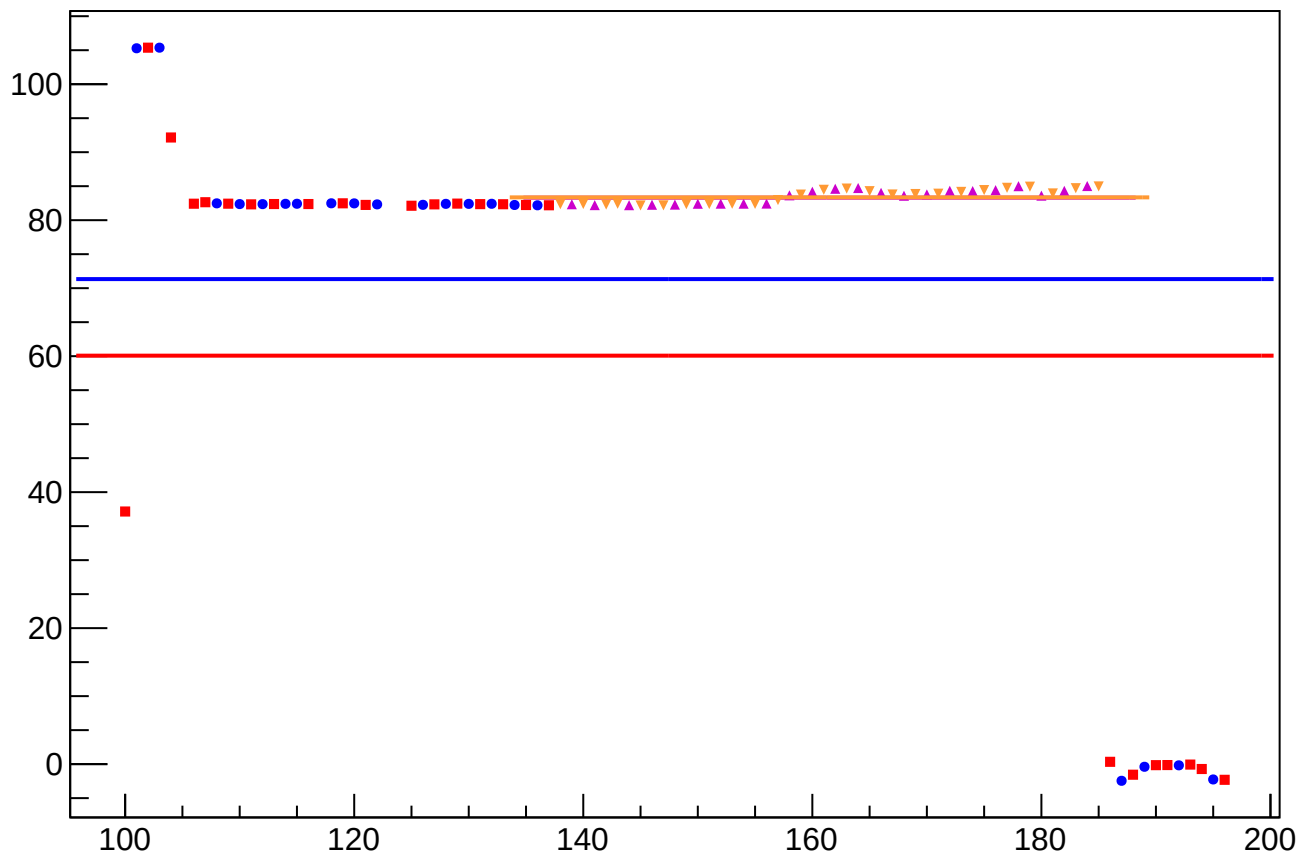
Right: 0.097+/-0.000 χ^2/NDF : 4232694.1/45

In: 0.080+/-0.000 χ^2/NDF : 2570907.3/43

Out: 0.082+/-0.000 χ^2/NDF : 3393376.0/49

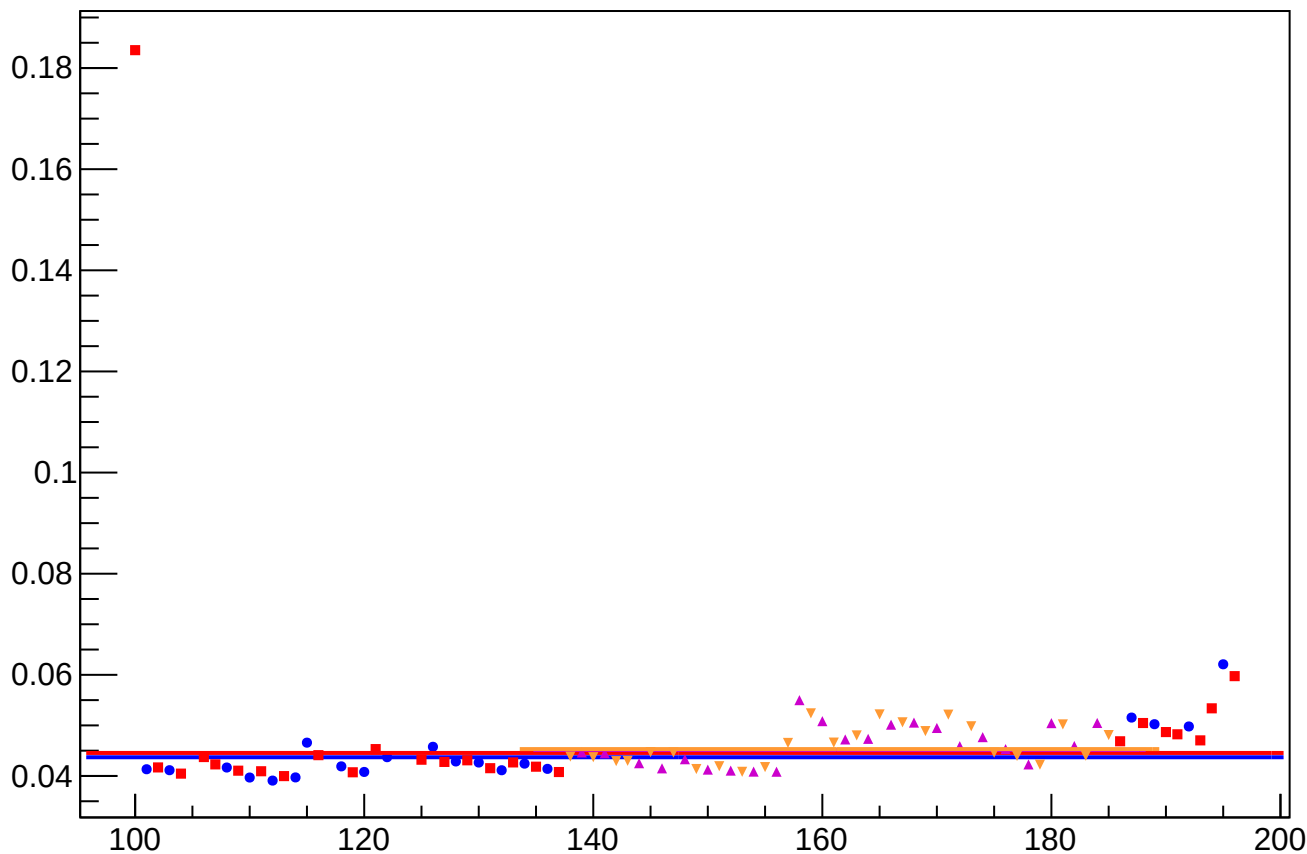
All: 0.081+/-0.000 χ^2/NDF : 5977619.9/93

yield_dsl_mean vs Slug, Sign Corrected



Right In: 71.335 $\pm$ 0.000 χ^2 /NDF: 5262817410864.3/19
 Left Out: 83.355 $\pm$ 0.000 χ^2 /NDF: 9142393022.8/24
 Right Out: 60.074 $\pm$ 0.000 χ^2 /NDF: 8463683326301.2/24
 Left In: 83.309 $\pm$ 0.000 χ^2 /NDF: 8421247810.9/22
 Left: 83.332 $\pm$ 0.000 χ^2 /NDF: 17572666767.1/47
 Right: 65.179 $\pm$ 0.000 χ^2 /NDF: 14041633233294.6/47
 In: 79.078 $\pm$ 0.000 χ^2 /NDF: 5692662440133.7/42
 Out: 74.357 $\pm$ 0.000 χ^2 /NDF: 10295544791085.2/42
 All: 76.602 $\pm$ 0.000 χ^2 /NDF: 1613856377872.1/47

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 235596.3/19

Left Out: 0.045+/-0.000 χ^2/NDF : 211358.2/24

Right Out: 0.045+/-0.000 χ^2/NDF : 329194.9/24

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 454494.8/47

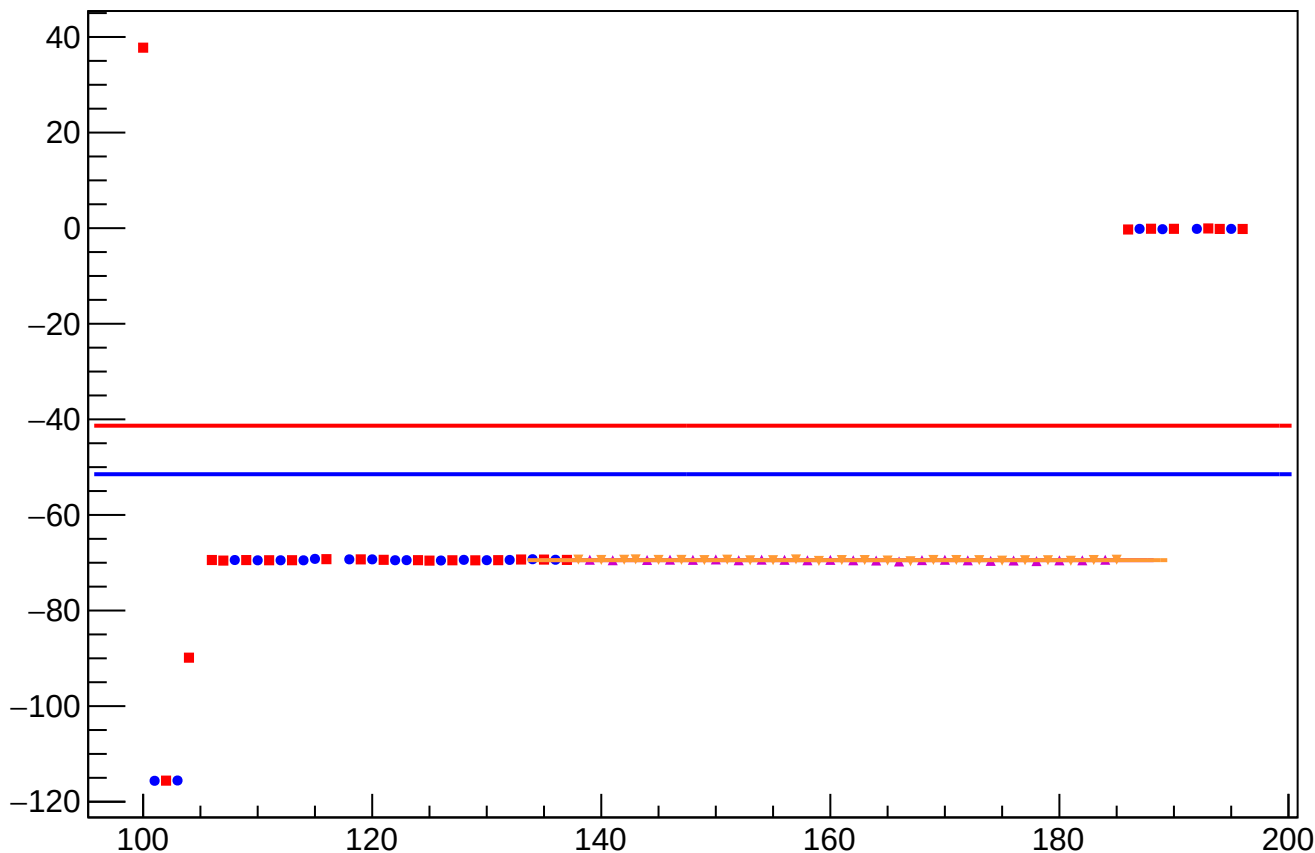
Right: 0.044+/-0.000 χ^2/NDF : 568405.5/44

In: 0.045+/-0.000 χ^2/NDF : 490709.8/42

Out: 0.045+/-0.000 χ^2/NDF : 544451.2/49

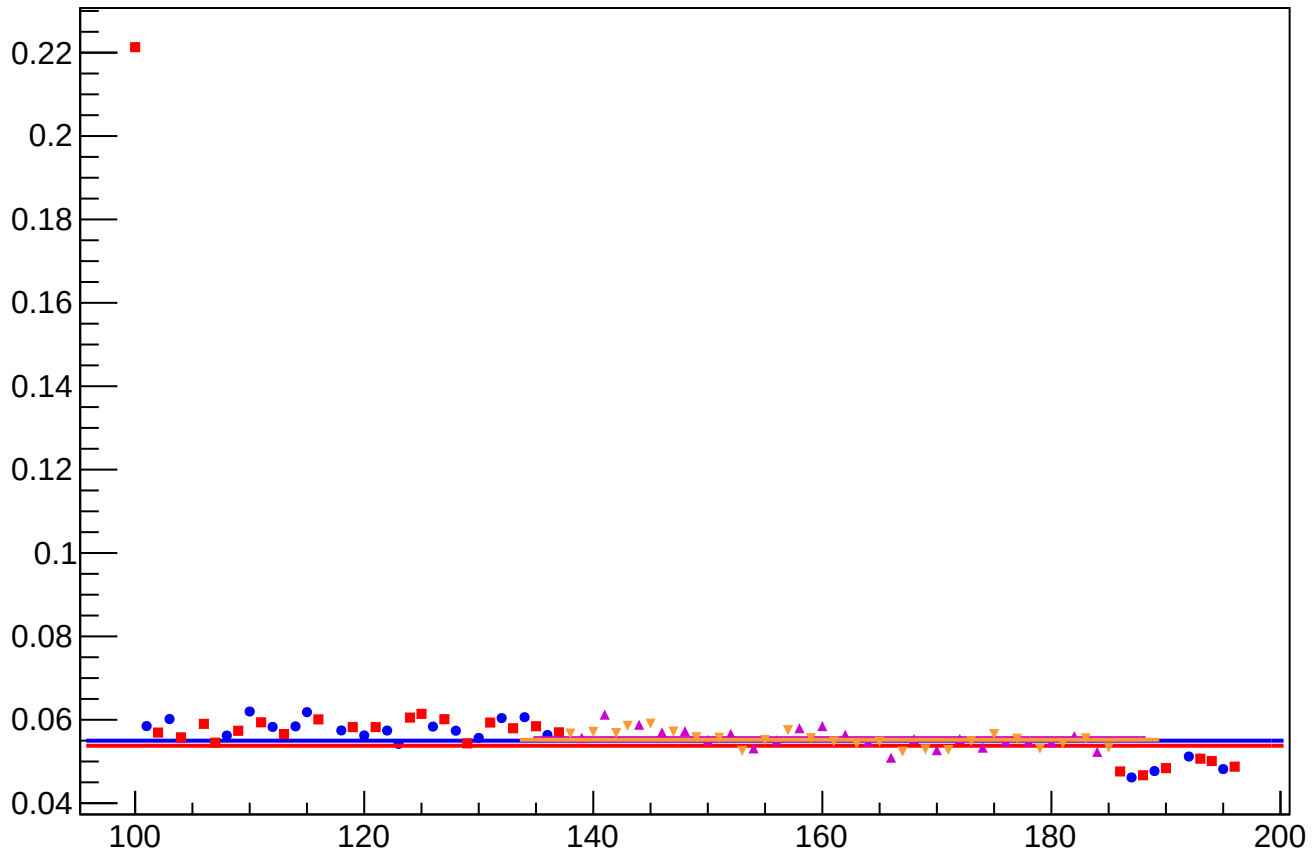
All: 0.045+/-0.000 χ^2/NDF : 1037183.9/92

yield_dsr_mean vs Slug, Sign Corrected



Right In: -51.481+/-0.000 χ^2/NDF : 4326984706290.6/20
 Left: -69.460+/-0.000 χ^2/NDF : 102399164.0/47
 Left Out: -69.461+/-0.000 χ^2/NDF : 49572401.9/24
 Right: -45.764+/-0.000 χ^2/NDF : 9908815922542.5/47
 Right Out: -41.327+/-0.000 χ^2/NDF : 5415765425222.4/24
 In: -63.269+/-0.000 χ^2/NDF : 4933384849183.8/43
 Left In: -69.458+/-0.000 χ^2/NDF : 52798704.3/22
 Out: -58.563+/-0.000 χ^2/NDF : 7203407802234.3/4
 All: -60.757+/-0.000 χ^2/NDF : 122350512302.4/47

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.055+/-0.000 χ^2/NDF : 119834.3/20

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.054+/-0.000 χ^2/NDF : 248173.4/24

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

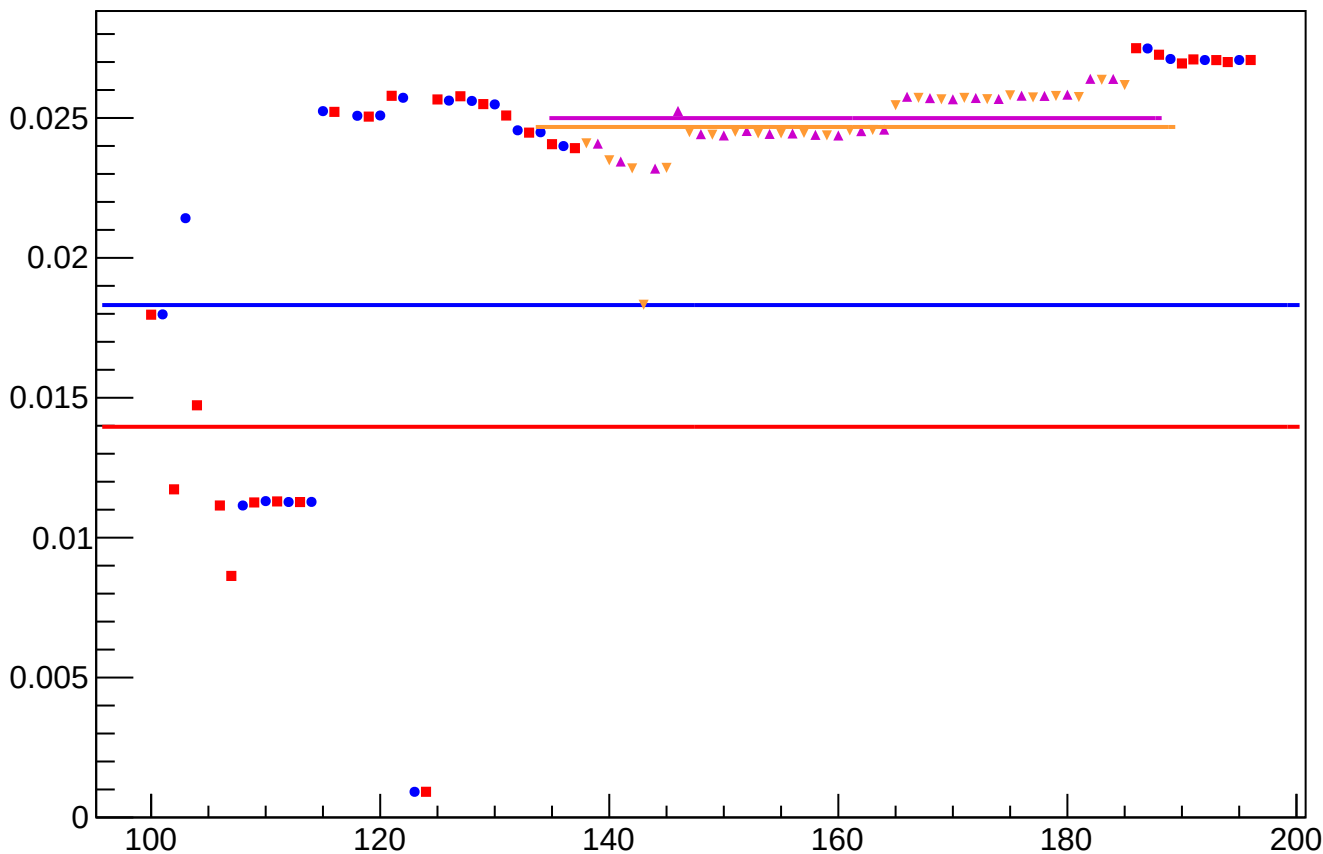
Right: 0.054+/-0.000 χ^2/NDF : 372735.4/45

In: 0.055+/-0.000 χ^2/NDF : 173391.0/43

Out: 0.055+/-0.000 χ^2/NDF : 296177.3/49

All: 0.055+/-0.000 χ^2/NDF : 474306.1/93

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 150100312613.6/20

Left Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 9641065555.8/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 334373982158.2/25

Left In: 0.025 $\pm$ 0.000 χ^2 /NDF: 2462473687.7/22

Left: 0.025 $\pm$ 0.000 χ^2 /NDF: 12284812437.7/47

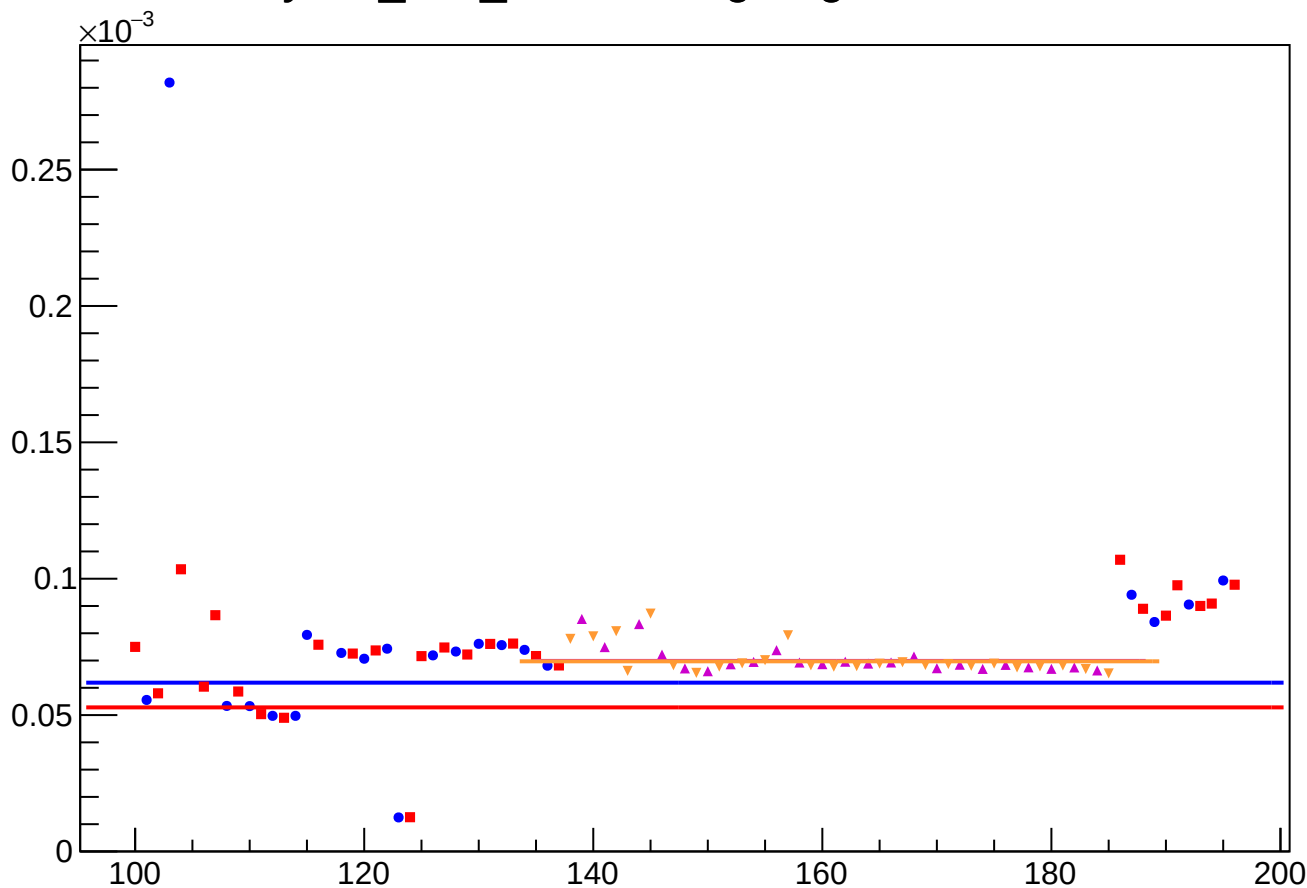
Right: 0.016 $\pm$ 0.000 χ^2 /NDF: 506436470633.4/46

In: 0.023 $\pm$ 0.000 χ^2 /NDF: 208492630239.9/43

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 530305585250.8/50

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 759224711255.6

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2581007.5/20

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 5447444.8/25

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

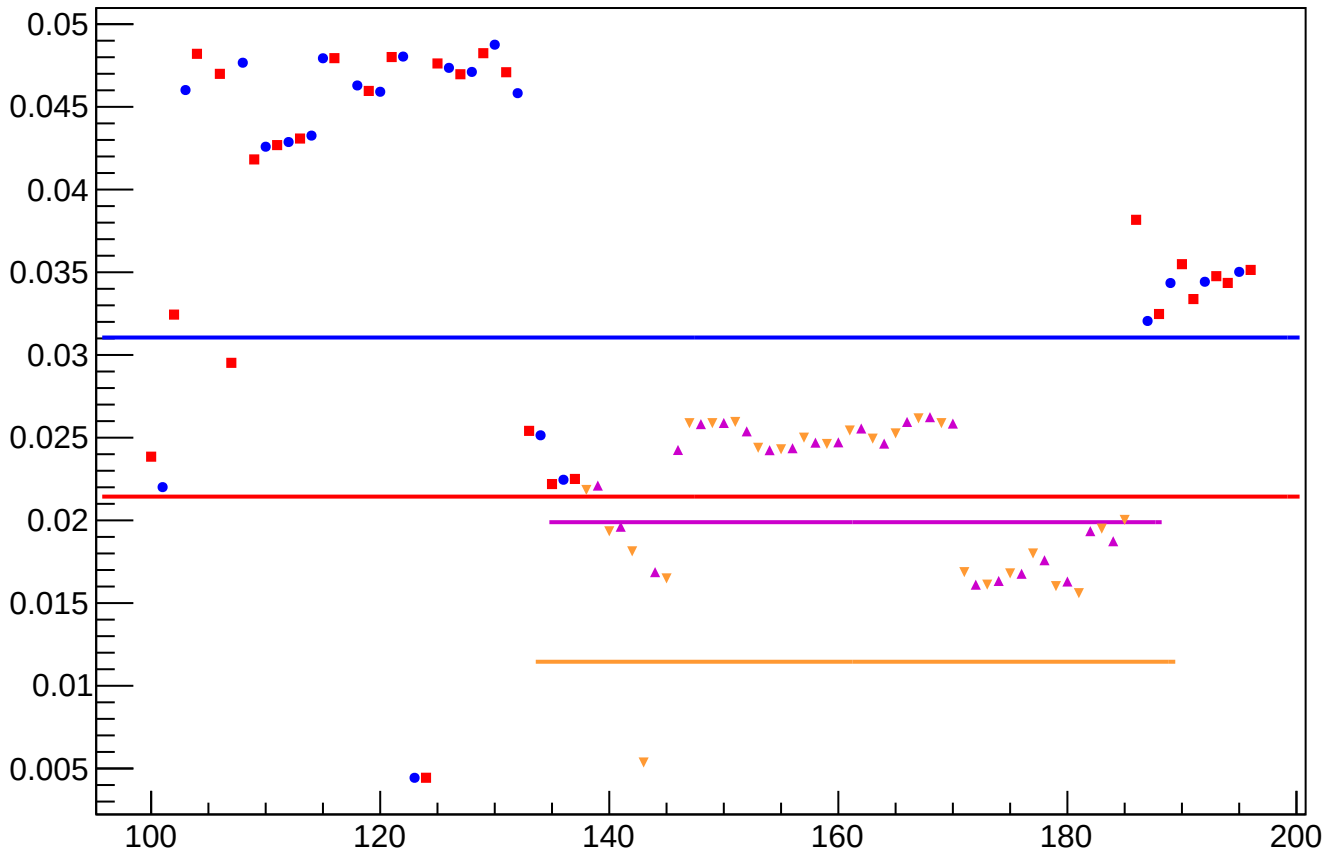
Right: 0.000+/-0.000 χ^2/NDF : 8219129.2/46

In: 0.000+/-0.000 χ^2/NDF :2869428.6/43

Out: 0.000+/-0.000 χ^2/NDF :6531410.9/50

All: 0.000+/-0.000 χ^2/NDF : 9531532.9/94

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 21172926514.6/20

Left Out: 0.011+/-0.000 χ^2/NDF : 40294472965.0/24

Right Out: 0.021+/-0.000 χ^2/NDF : 42237317686.5/25

Left In: 0.020+/-0.000 χ^2/NDF : 4458790813.3/22

Left: 0.014+/-0.000 χ^2/NDF : 59527747529.2/47

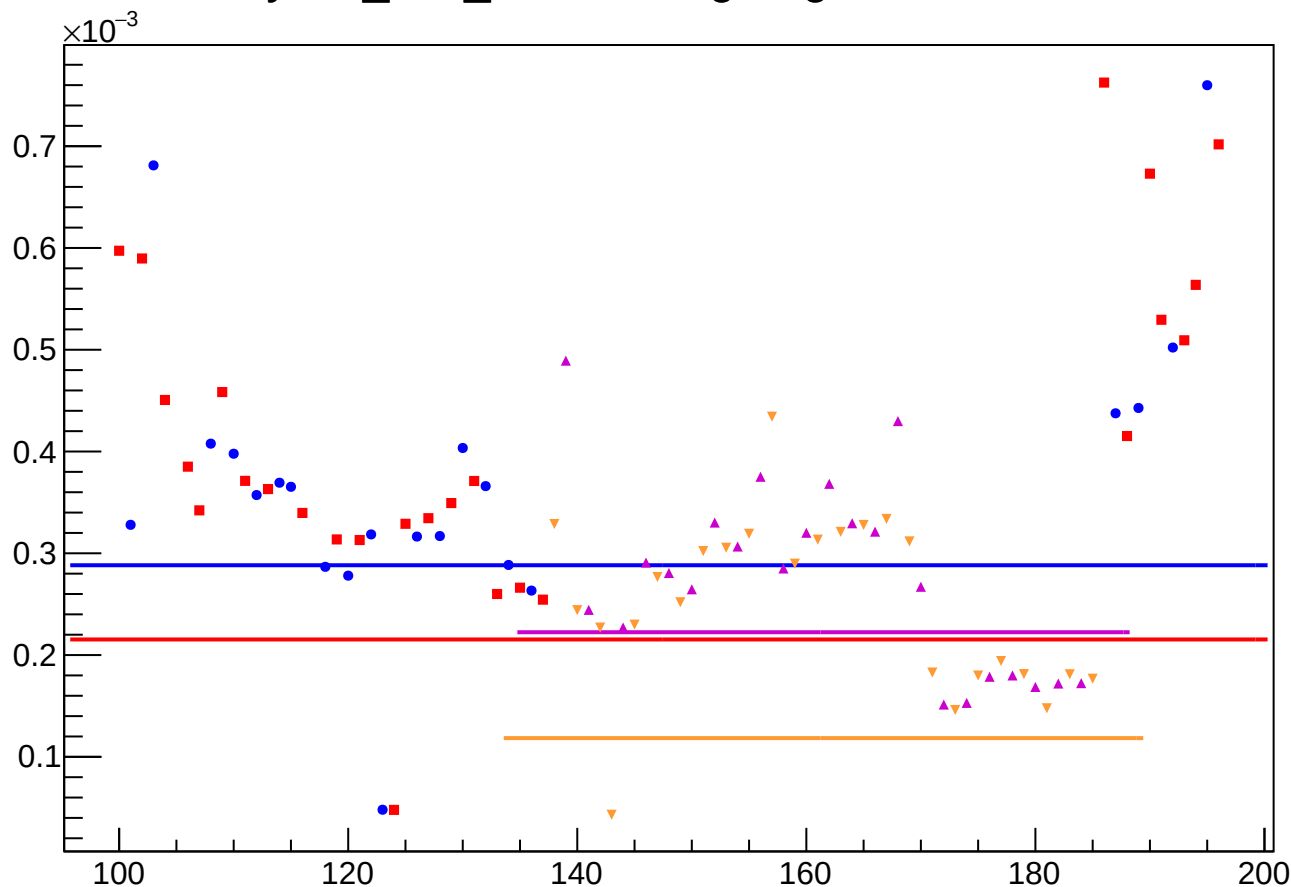
Right: 0.025+/-0.000 χ^2/NDF : 67940411873.8/46

In: 0.022+/-0.000 χ^2/NDF : 33325658083.1/43

Out: 0.013+/-0.000 χ^2/NDF : 93561208543.0/50

All: 0.016+/-0.000 χ^2/NDF : 148945717592.4

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3523309.9/20

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8673075.6/25

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

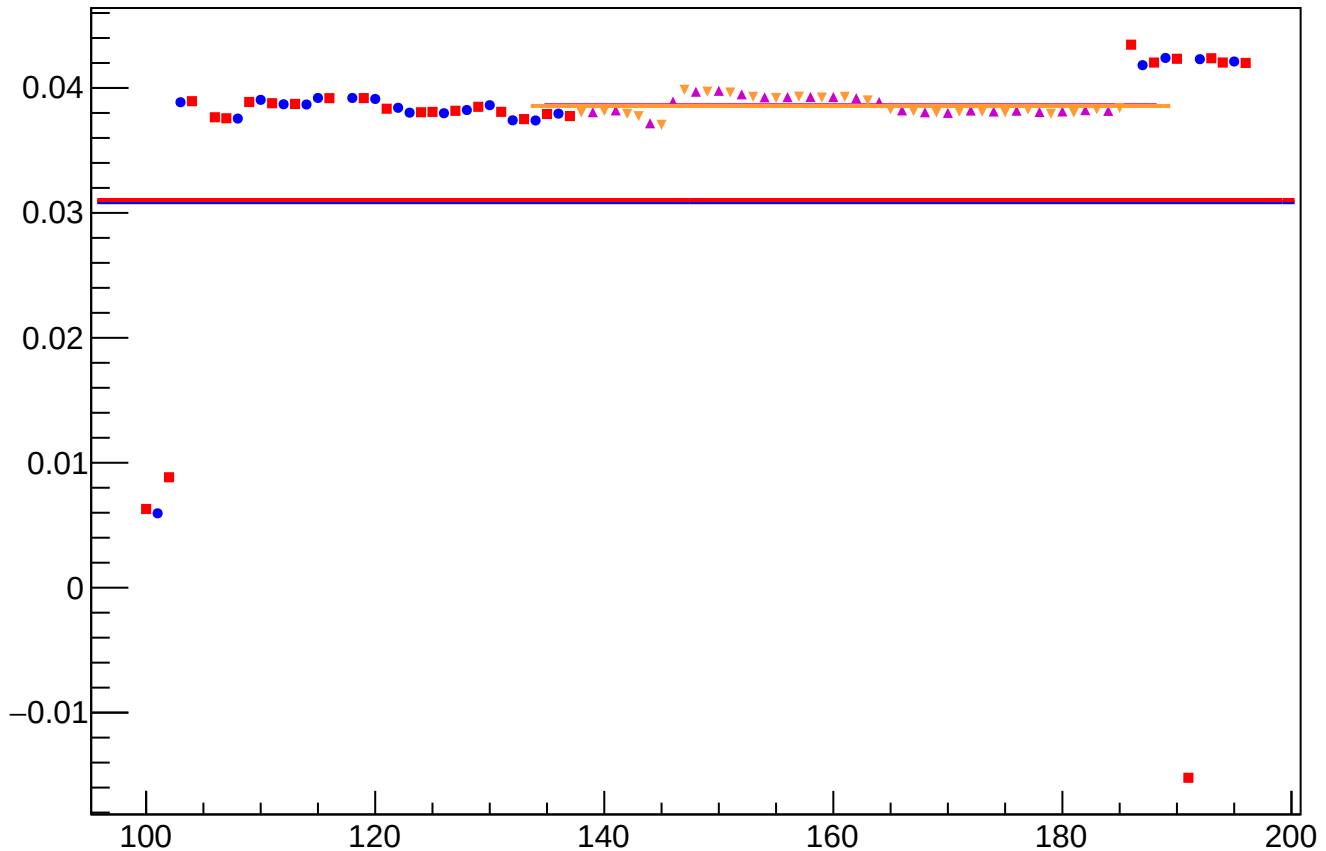
Right: 0.000+/-0.000 χ^2/NDF : 12717285.7/46

In: 0.000+/-0.000 χ^2/NDF :7339358.1/43

Out: 0.000+/-0.000 χ^2/NDF :24315437.6/50

All: 0.000+/-0.000 χ^2/NDF : 37117815.4/94

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 103245378937.9/20

Left Out: 0.039+/-0.000 χ^2/NDF : 539468437.3/24

Right Out: 0.031+/-0.000 χ^2/NDF : 171551909305.0/25

Left In: 0.039+/-0.000 χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000 χ^2/NDF : 1007039623.8/47

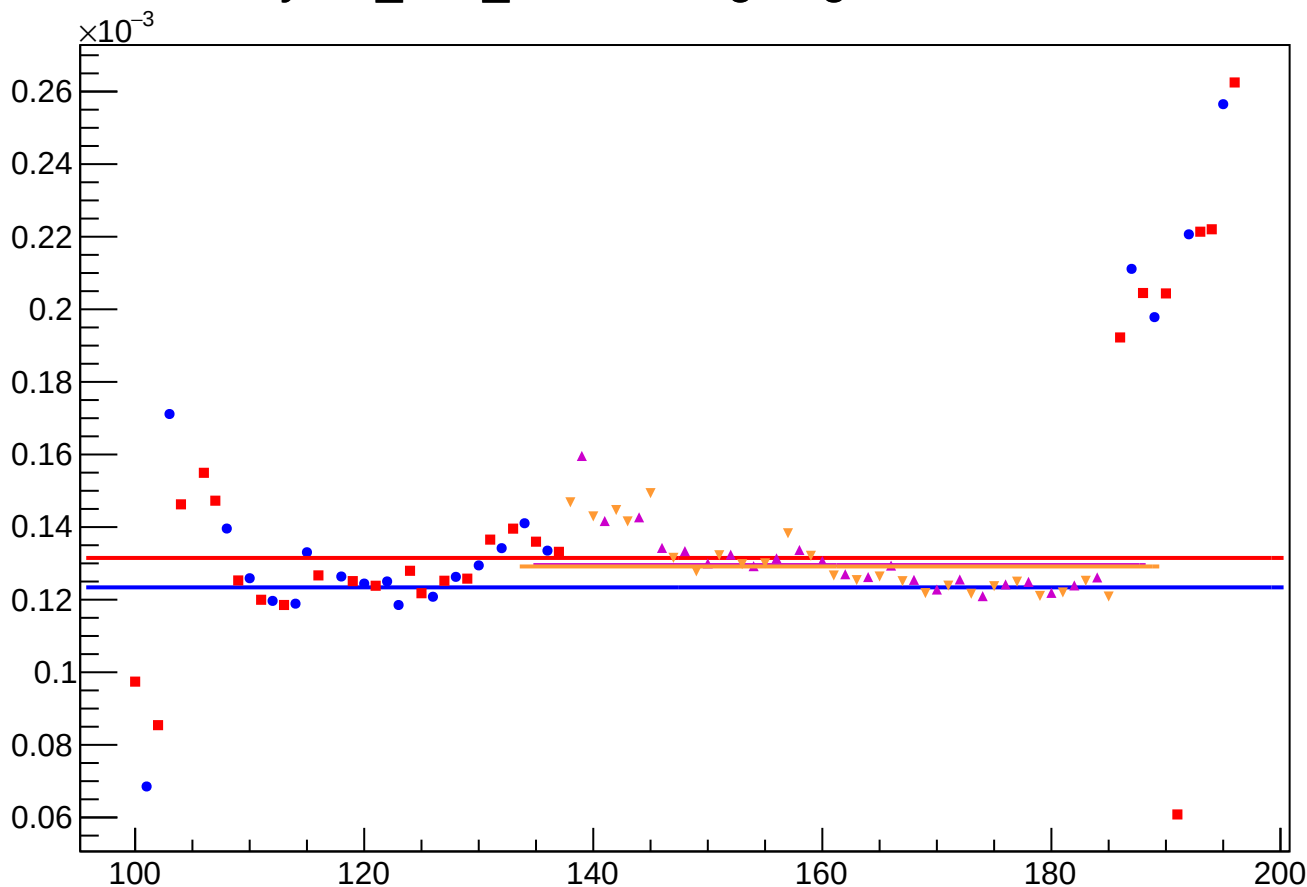
Right: 0.031+/-0.000 χ^2/NDF : 274805852302.3/46

In: 0.036+/-0.000 χ^2/NDF : 124339225044.3/43

Out: 0.036+/-0.000 χ^2/NDF : 193094072777.3/50

All: 0.036+/-0.000 χ^2/NDF : 317434112371.1

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1822908.8/20

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 2074427.1/25

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

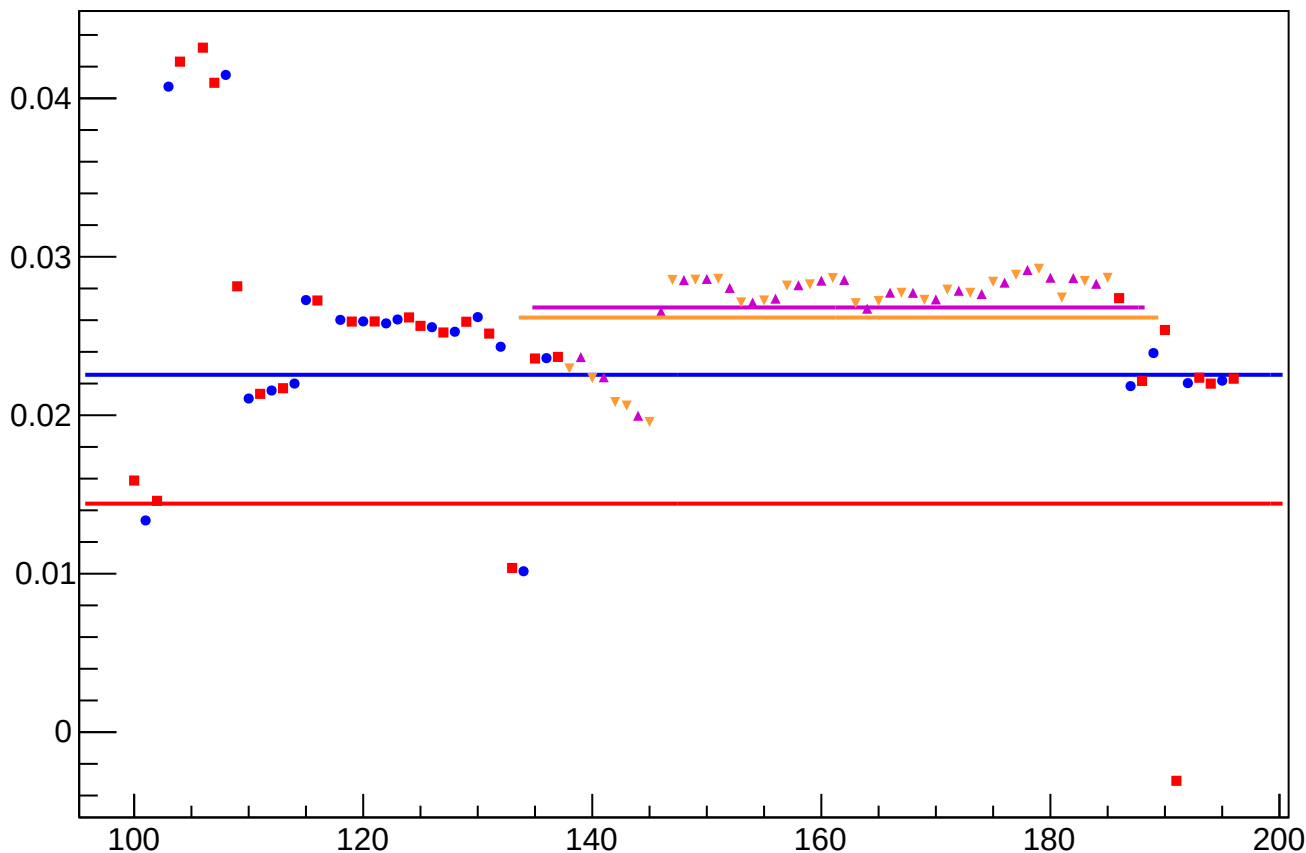
Right: 0.000+/-0.000 χ^2/NDF : 3932786.2/46

In: 0.000+/-0.000 χ^2/NDF :1963464.3/43

Out: 0.000+/-0.000 χ^2/NDF :2208841.3/50

All: 0.000+/-0.000 χ^2/NDF : 4182168.3/94

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4244021004.6/20

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.014+/-0.000 χ^2/NDF : 30632224952.1/25

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

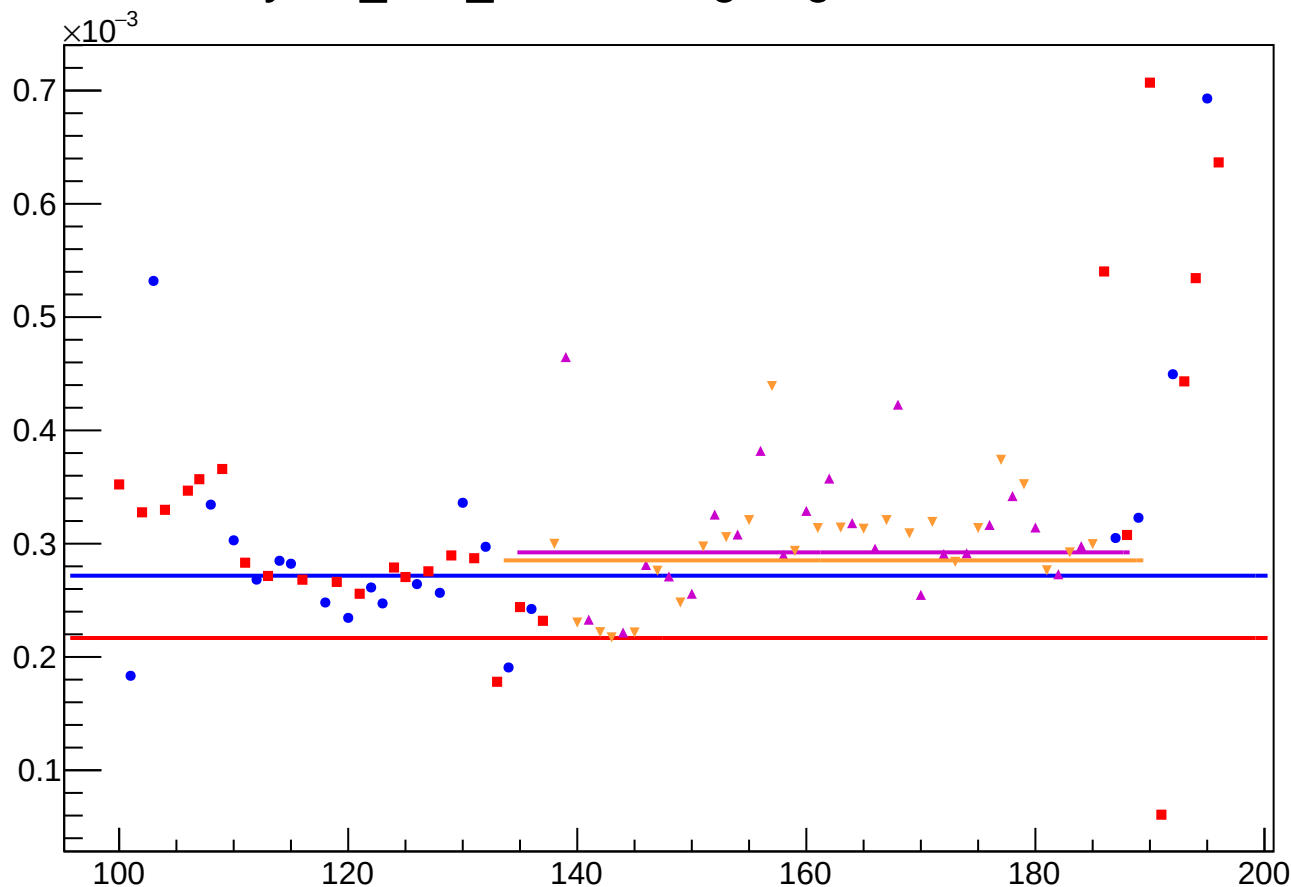
Right: 0.018+/-0.000 χ^2/NDF : 38931501421.1/46

In: 0.025+/-0.000 χ^2/NDF : 6752704724.0/43

Out: 0.021+/-0.000 χ^2/NDF : 44856747633.1/50

All: 0.023+/-0.000 χ^2/NDF : 54524933957.7/9

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1552491.2/20

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 5797654.2/25

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

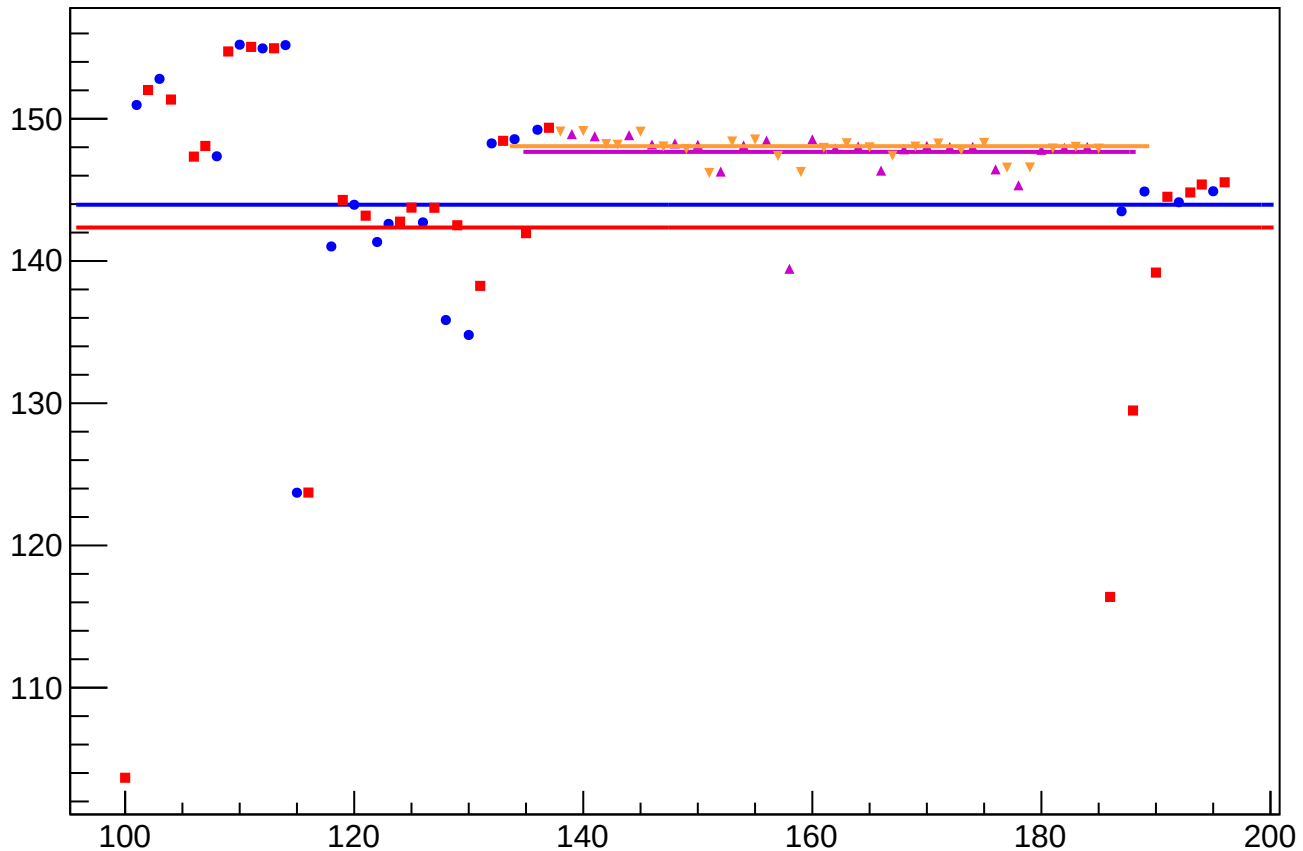
Right: 0.000+/-0.000 χ^2/NDF : 7721106.6/46

In: 0.000+/-0.000 χ^2/NDF :2506534.2/43

Out: 0.000+/-0.000 χ^2/NDF :7439515.1/50

All: 0.000+/-0.000 χ^2/NDF : 10228708.2/94

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.957 $\pm$ 0.000 χ^2/NDF : 3456767802.9/20

Left Out: 148.073 $\pm$ 0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.356 $\pm$ 0.000 χ^2/NDF : 7331078034.2/25

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

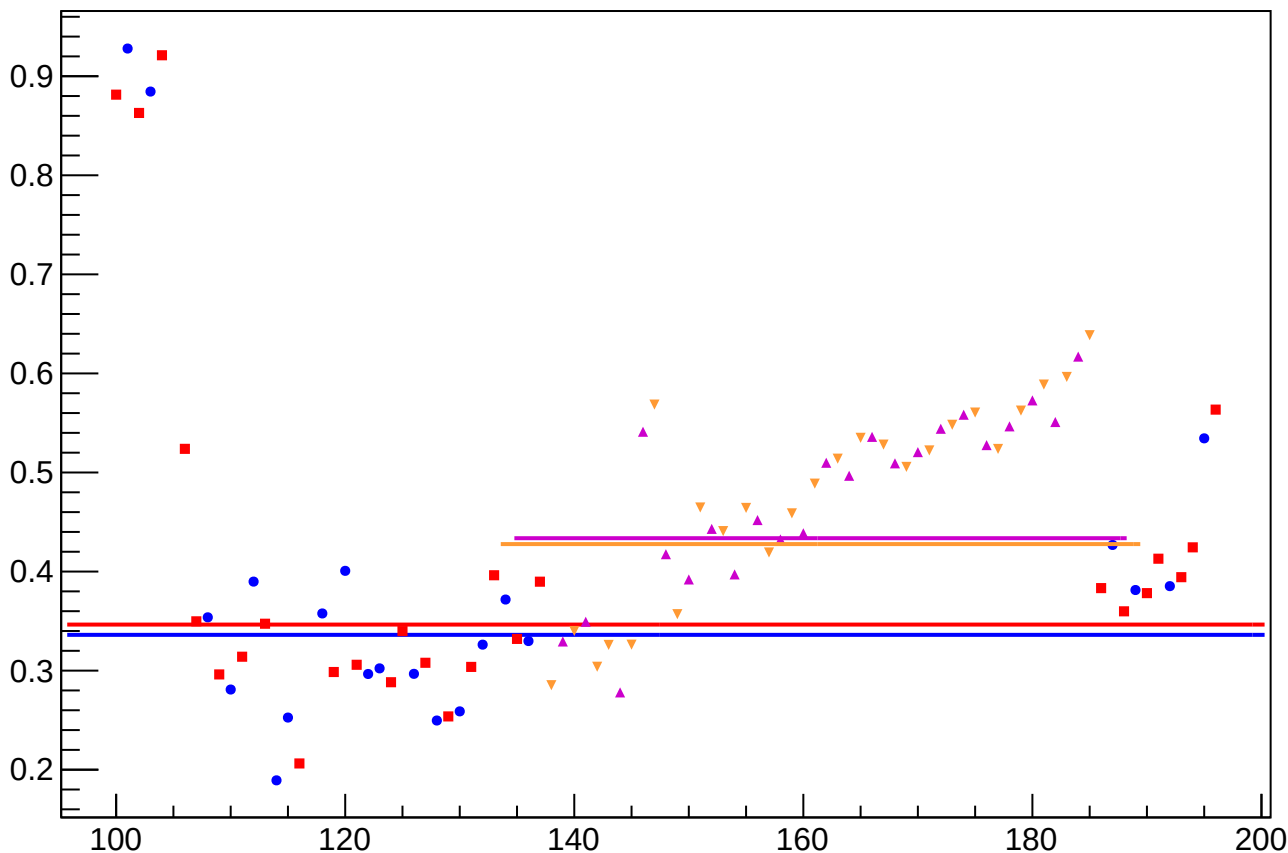
Right: 143.086 $\pm$ 0.000 χ^2/NDF : 10882148297.5/46

In: 146.042 $\pm$ 0.000 χ^2/NDF : 4324849400.8/43

Out: 145.413 $\pm$ 0.000 χ^2/NDF : 8807491853.4/50

All: 145.709 $\pm$ 0.000 χ^2/NDF : 13164550932.0/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.336+/-0.000 χ^2/NDF : 1584815.9/20

Left Out: 0.428+/-0.000 χ^2/NDF :1896808.7/24

Right Out: 0.346+/-0.000 χ^2/NDF : 1603233.6/25

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

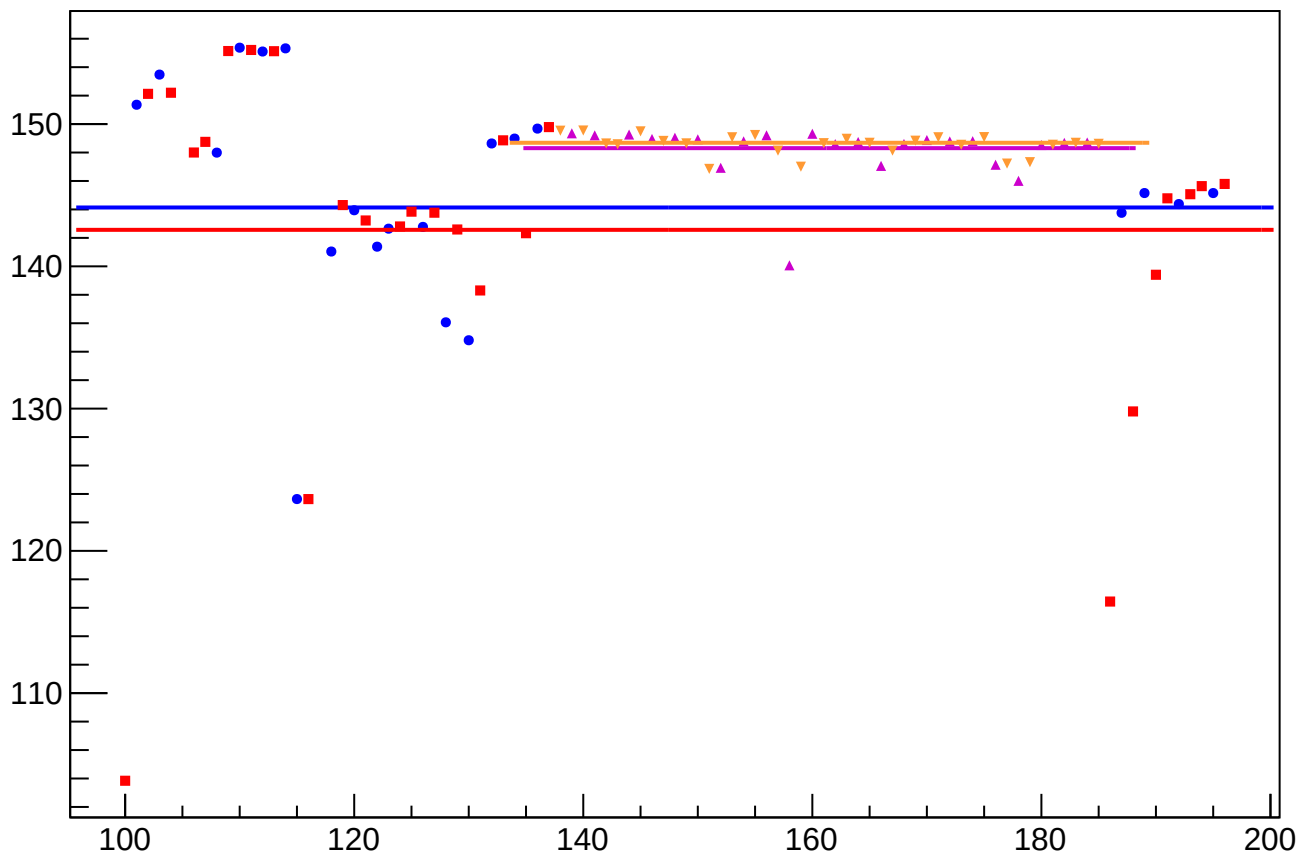
Right: 0.342+/-0.000 χ^2/NDF : 3195953.2/46

In: 0.391+/-0.000 χ^2/NDF :3803027.1/43

Out: 0.390+/-0.000 χ^2/NDF :4069978.6/50

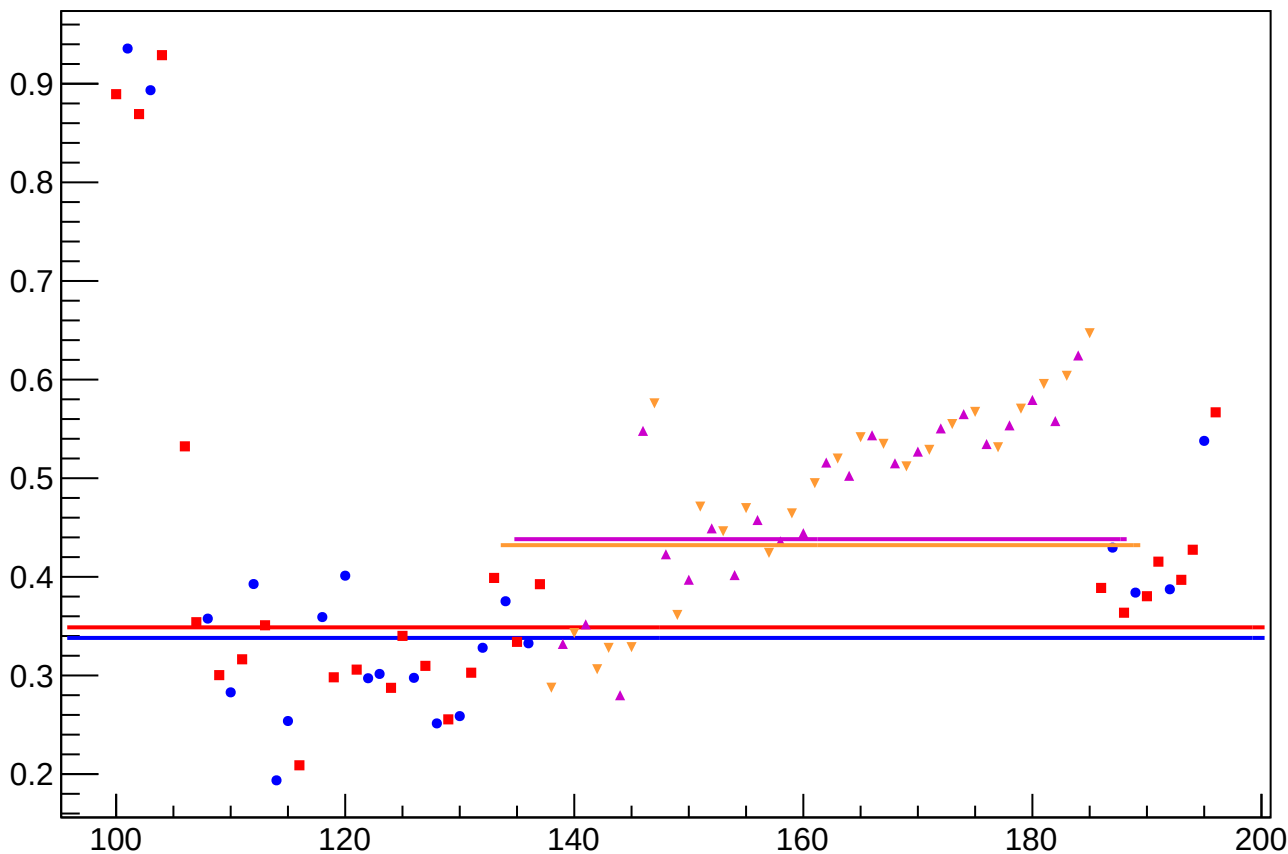
All: 0.390+/-0.000 χ^2/NDF : 7873151.4/94

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.137 $\pm$ 0.000	χ^2 /NDF: 3502328498.0/20	Left: 148.504 $\pm$ 0.000	χ^2 /NDF: 392094013.2/47
Left Out: 148.686 $\pm$ 0.000	χ^2 /NDF: 52218185.1/24	Right: 143.283 $\pm$ 0.000	χ^2 /NDF: 10868385994.4/46
Right Out: 142.566 $\pm$ 0.000	χ^2 /NDF: 7276360810.9/25	In: 146.468 $\pm$ 0.000	χ^2 /NDF: 4484978446.0/43
Left In: 148.307 $\pm$ 0.000	χ^2 /NDF: 333585558.2/22	Out: 145.827 $\pm$ 0.000	χ^2 /NDF: 8918140830.2/50
		All: 146.128 $\pm$ 0.000	χ^2 /NDF: 13436066421.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.338 $\pm$ 0.000 χ^2 /NDF: 1587205.6/20

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.349 $\pm$ 0.000 χ^2 /NDF: 1607928.3/25

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1521893.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3454164.8/47

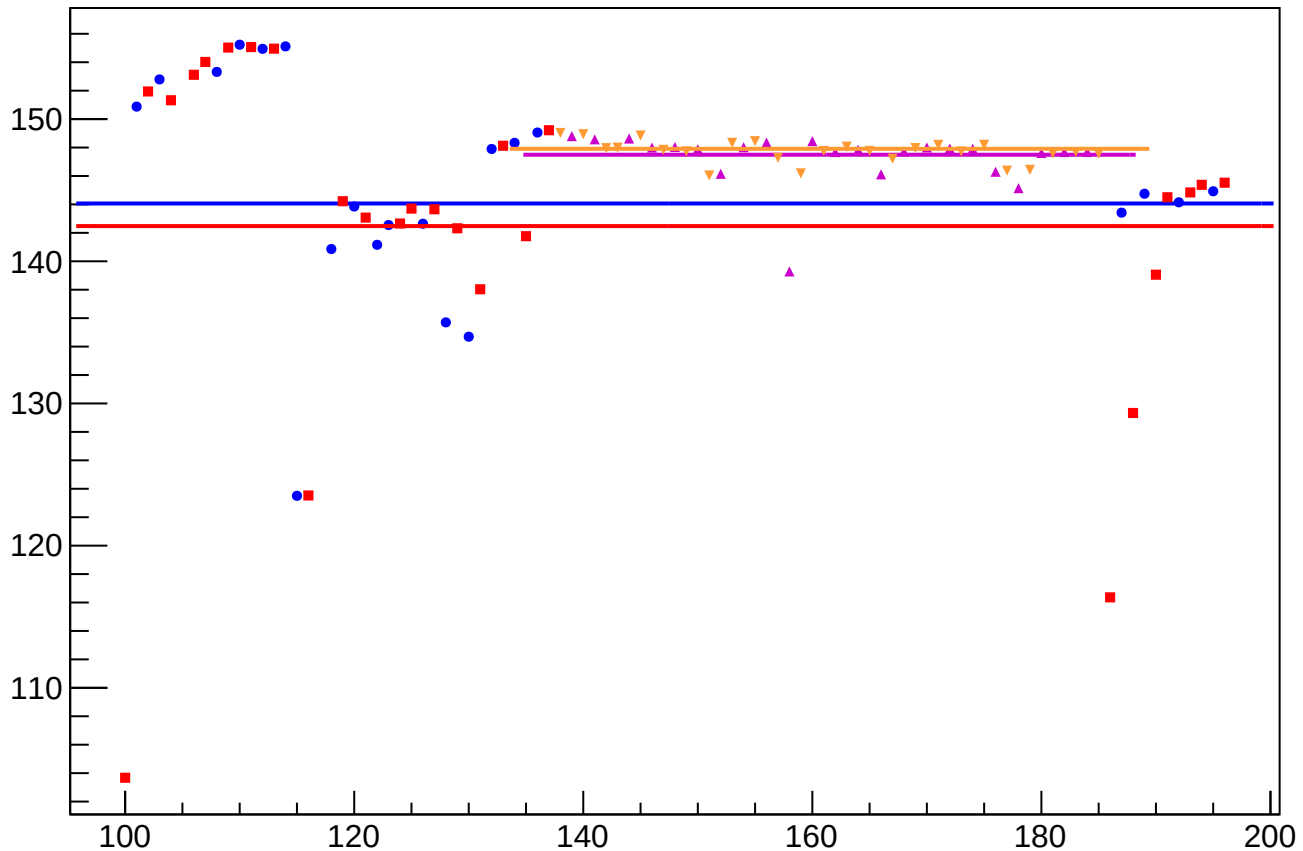
Right: 0.344 $\pm$ 0.000 χ^2 /NDF: 3203491.1/46

In: 0.394 $\pm$ 0.000 χ^2 /NDF:3857733.0/43

Out: 0.393 $\pm$ 0.000 χ^2 /NDF:4126368.8/50

All: 0.394 $\pm$ 0.000 χ^2 /NDF: 7984215.1/94

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.065 $\pm$ 0.000 χ^2 /NDF: 3668597961.8/20

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.476 $\pm$ 0.000 χ^2 /NDF: 7717789864.6/25

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

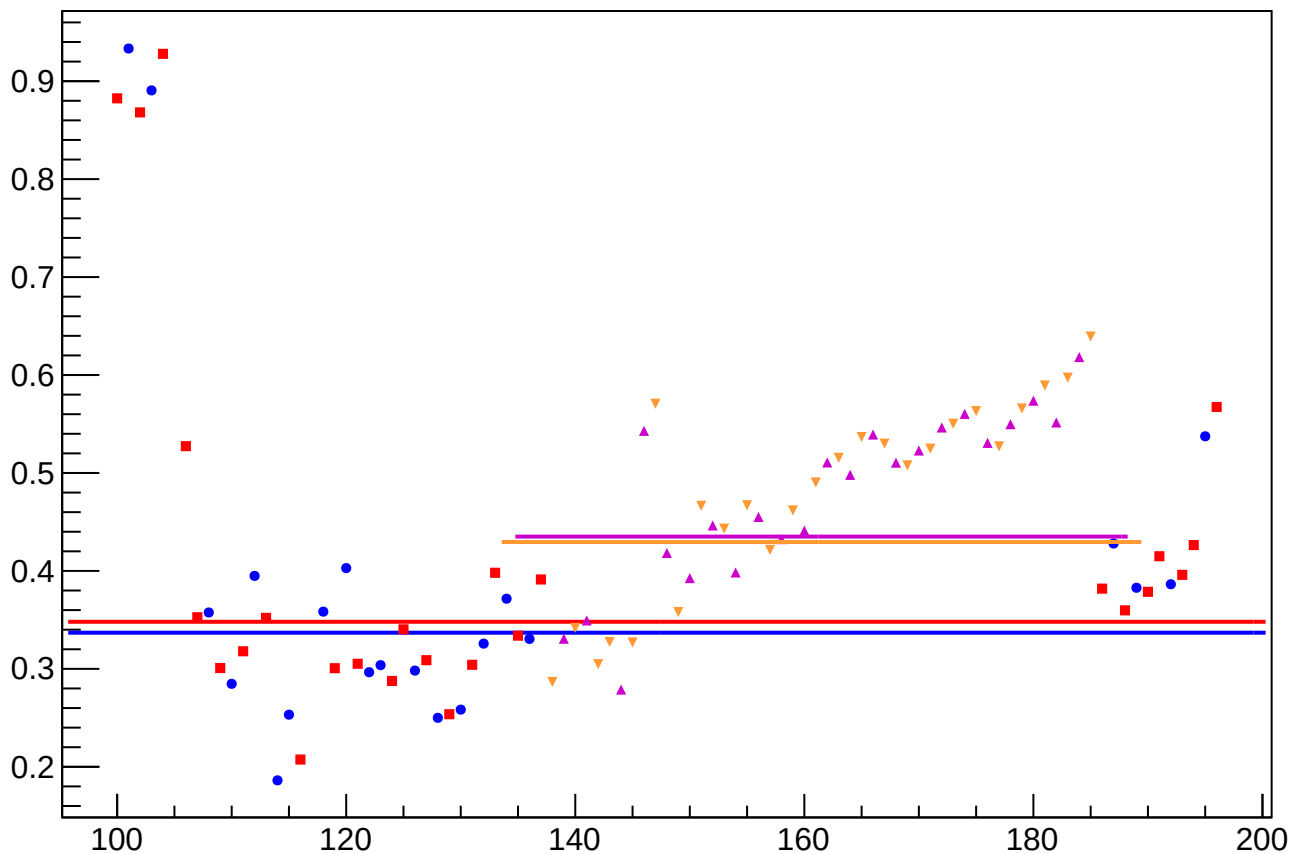
Right: 143.201 $\pm$ 0.000 χ^2 /NDF: 11478569730.7/46

In: 145.989 $\pm$ 0.000 χ^2 /NDF: 4455555664.6/43

Out: 145.383 $\pm$ 0.000 χ^2 /NDF: 9046495464.9/50

All: 145.669 $\pm$ 0.000 χ^2 /NDF: 13531772773.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2 /NDF: 1602619.8/20

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.348 $\pm$ 0.000 χ^2 /NDF: 1605884.0/25

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

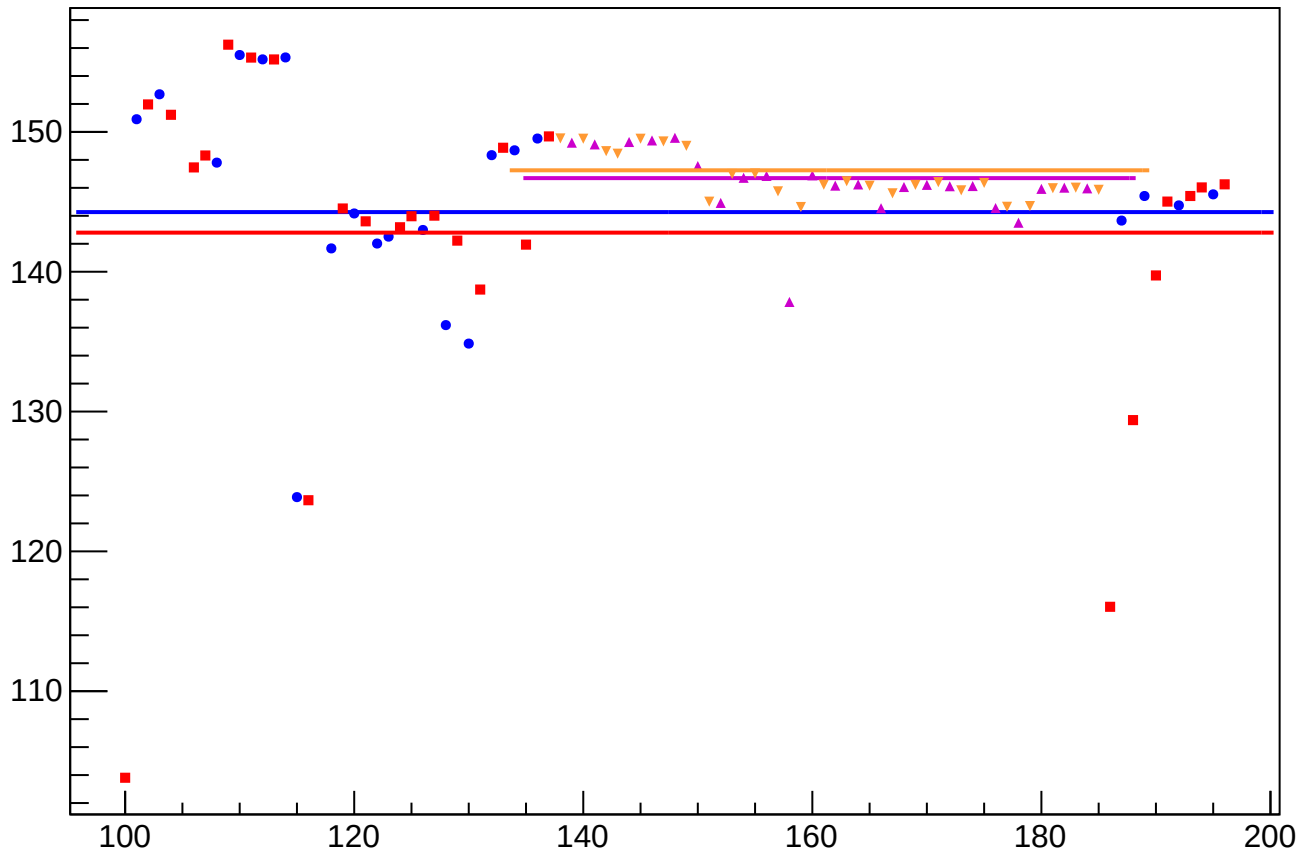
Right: 0.343 $\pm$ 0.000 χ^2 /NDF: 3217572.5/46

In: 0.392 $\pm$ 0.000 χ^2 /NDF:3831121.6/43

Out: 0.392 $\pm$ 0.000 χ^2 /NDF:4069397.8/50

All: 0.392 $\pm$ 0.000 χ^2 /NDF: 7900540.6/94

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.267 ± 0.000 $\chi^2/\text{NDF}: 3173821253.2/20$

Left Out: 147.255 ± 0.000 $\chi^2/\text{NDF}: 262138049.8/24$

Right Out: 142.797 ± 0.000 $\chi^2/\text{NDF}: 7033249692.6/25$

Left In: 146.695 ± 0.000 $\chi^2/\text{NDF}: 557896803.1/22$

Left: 146.984 ± 0.000 $\chi^2/\text{NDF}: 833217060.4/47$

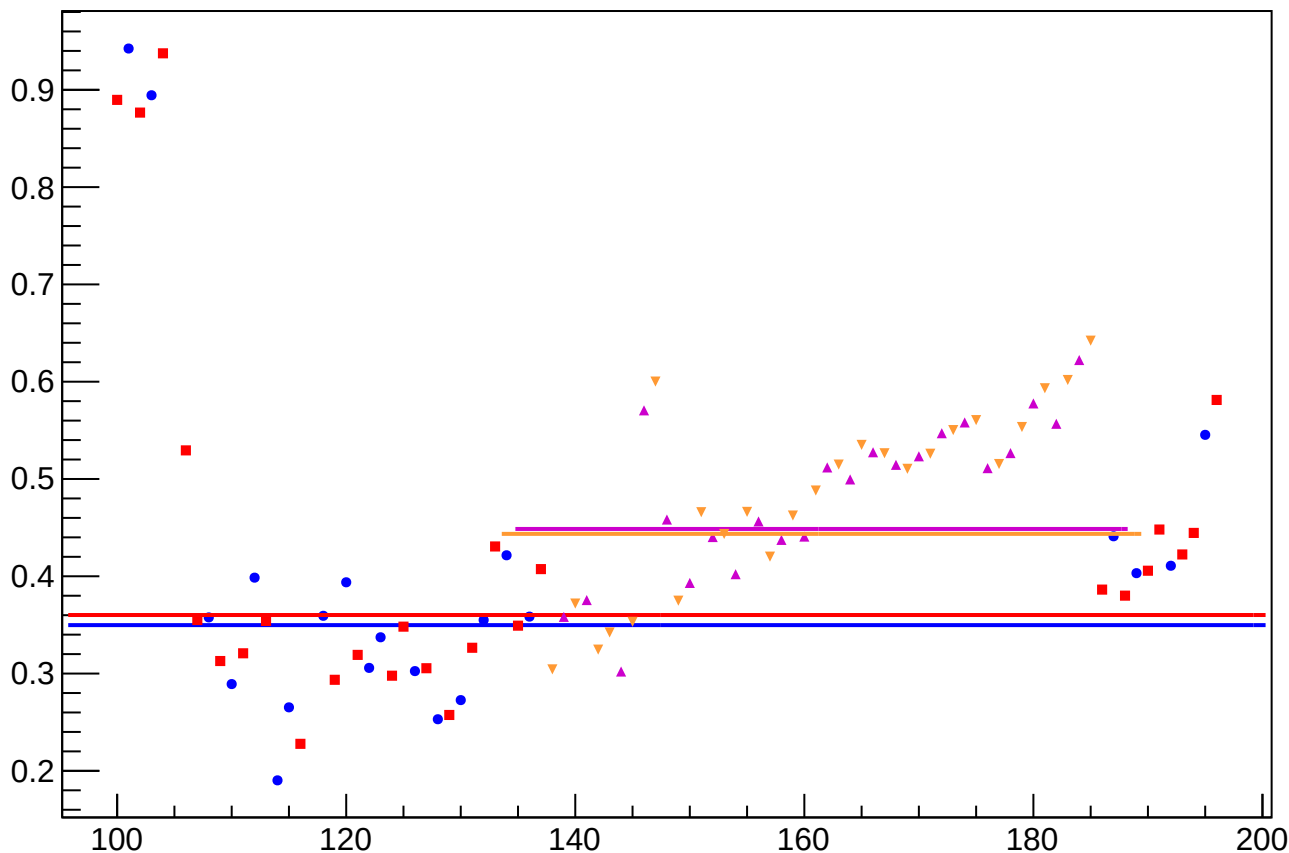
Right: 143.465 ± 0.000 $\chi^2/\text{NDF}: 10280203609.7/46$

In: 145.646 ± 0.000 $\chi^2/\text{NDF}: 3939768739.7/43$

Out: 145.201 ± 0.000 $\chi^2/\text{NDF}: 8092941746.9/50$

All: 145.410 ± 0.000 $\chi^2/\text{NDF}: 12047774270.0$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.350+/-0.000 χ^2/NDF : 1583082.1/20

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.360+/-0.000 χ^2/NDF : 1593196.3/25

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

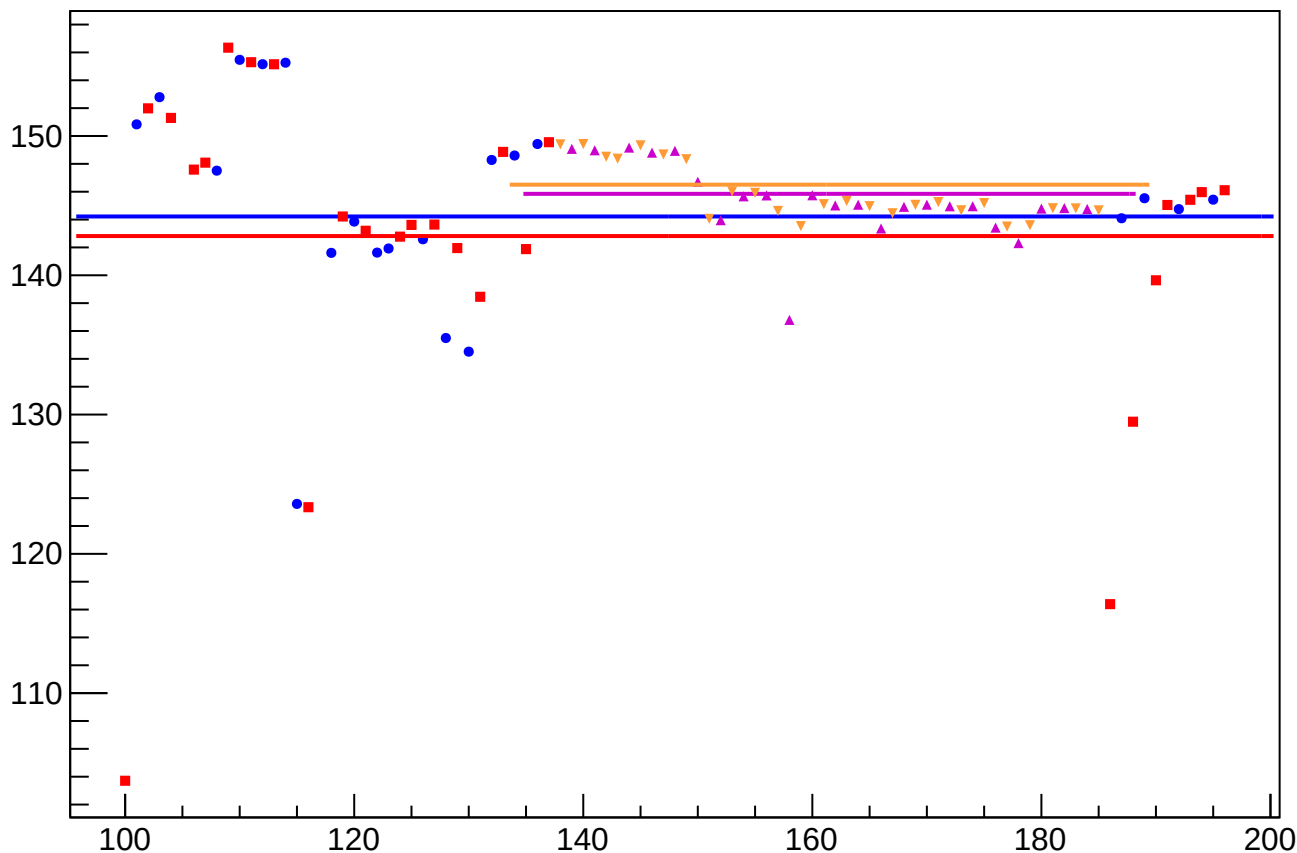
Right: 0.355+/-0.000 χ^2/NDF : 3183577.7/46

In: 0.406+/-0.000 χ^2/NDF :3404797.3/43

Out: 0.405+/-0.000 χ^2/NDF :3634972.6/50

All: 0.406+/-0.000 χ^2/NDF : 7039859.8/94

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.222 +/- 0.000 χ^2/NDF : 3293705714.6/20

Left Out: 146.505 +/- 0.000 χ^2/NDF : 401688176.3/24

Right Out: 142.816 +/- 0.000 χ^2/NDF : 7005021209.1/25

Left In: 145.847 +/- 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 +/- 0.000 χ^2/NDF : 1114638549.0/47

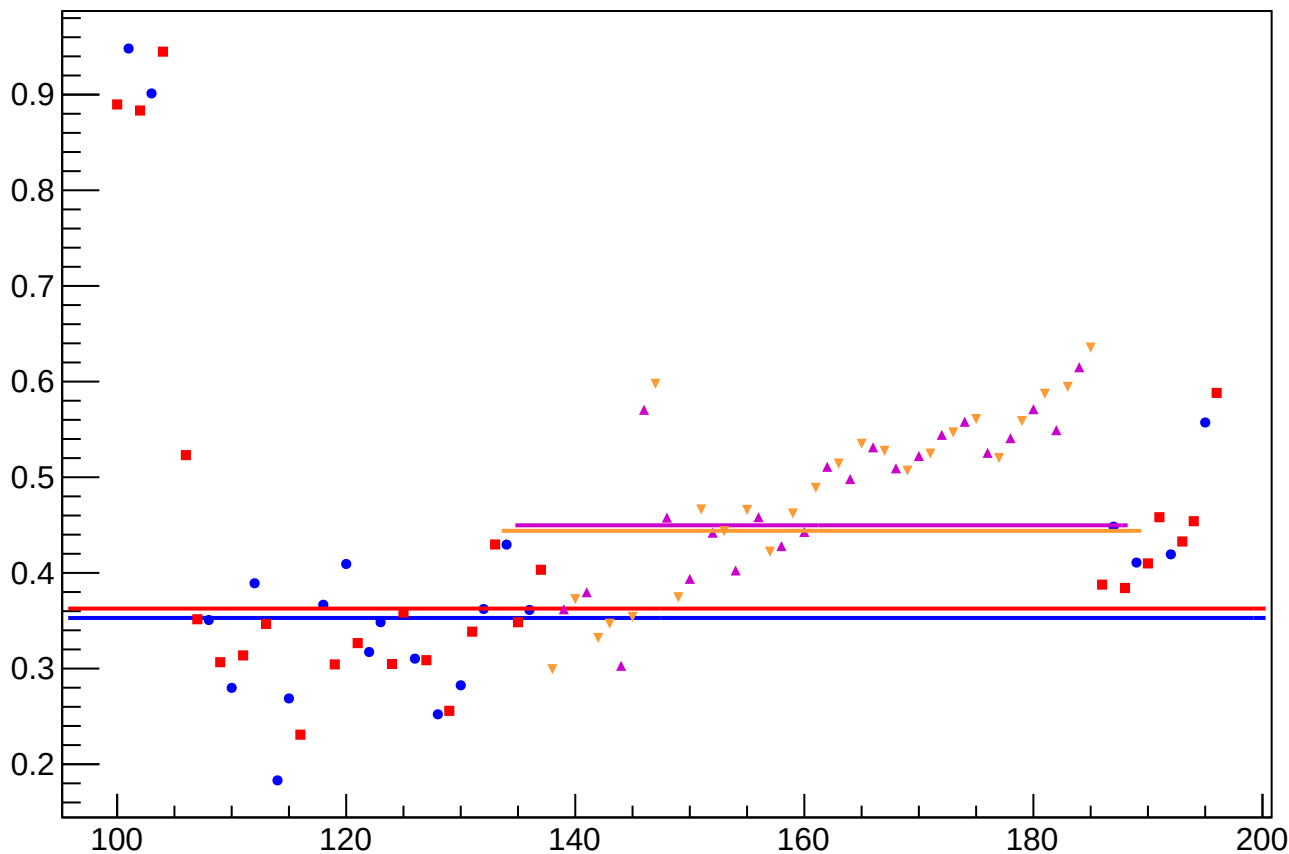
Right: 143.454 +/- 0.000 χ^2/NDF : 10364311619.5/46

In: 145.152 +/- 0.000 χ^2/NDF : 4080145023.7/43

Out: 144.819 +/- 0.000 χ^2/NDF : 7947148055.4/50

All: 144.975 +/- 0.000 χ^2/NDF : 12035603568.

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.353 $\pm$ 0.000 χ^2 /NDF: 1618361.8/20

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.363 $\pm$ 0.000 χ^2 /NDF: 1605956.7/25

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

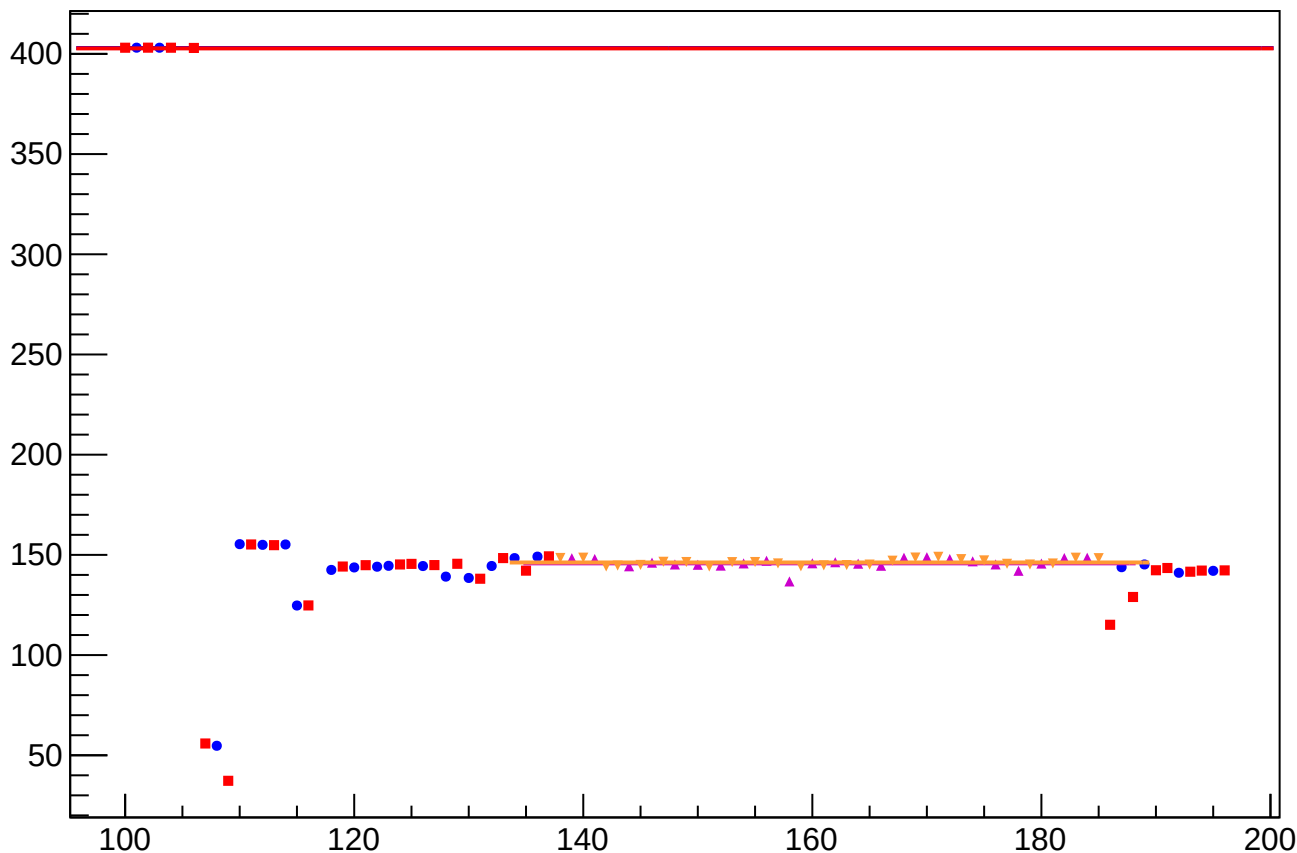
Right: 0.358 $\pm$ 0.000 χ^2 /NDF: 3230706.0/46

In: 0.408 $\pm$ 0.000 χ^2 /NDF:3375358.9/43

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:3593902.9/50

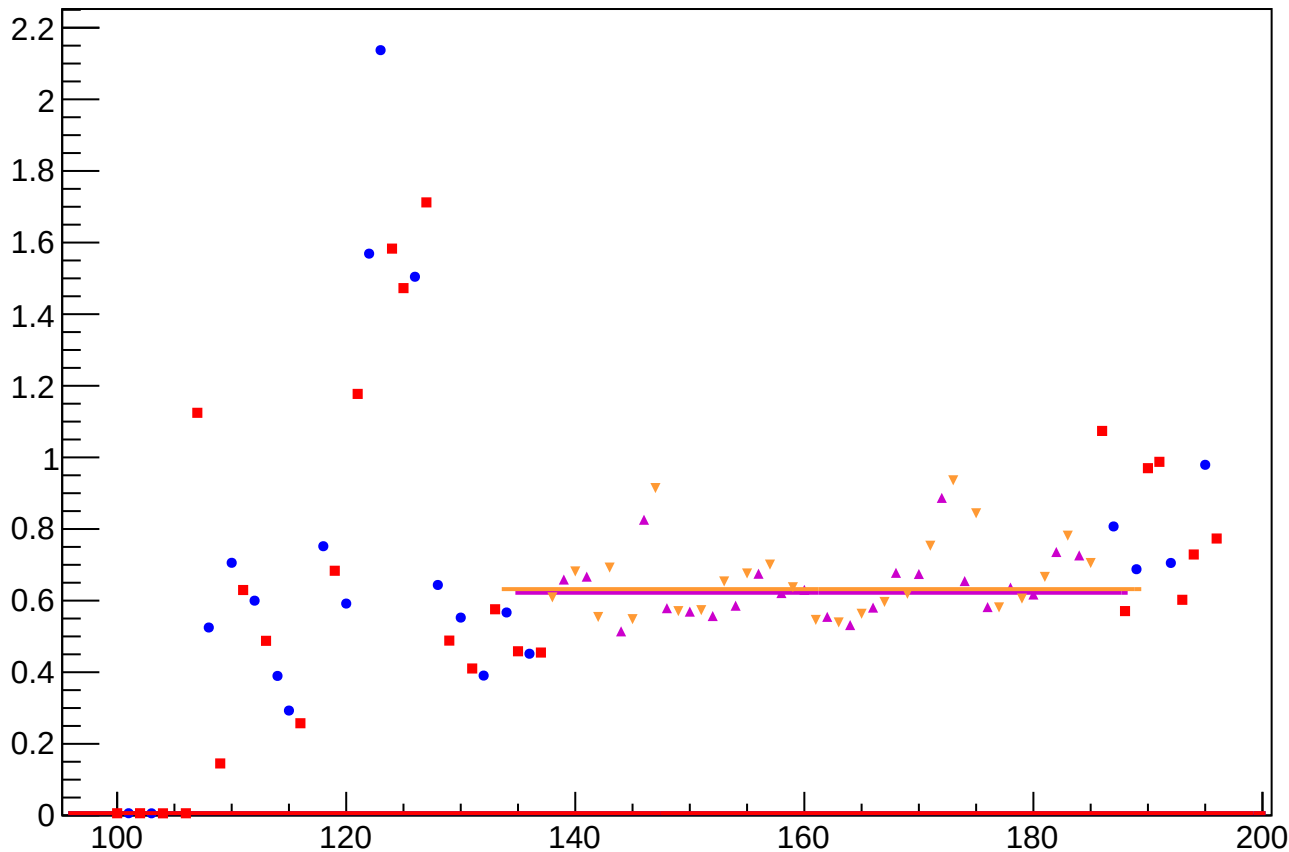
All: 0.408 $\pm$ 0.000 χ^2 /NDF: 6969585.7/94

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.933+/-0.000	χ^2/NDF : 1294470761712.1/20	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.833+/-0.000	χ^2/NDF : 4905358113613.3
Right Out: 402.745+/-0.000	χ^2/NDF : 3610301012002.9/25	In: 402.640+/-0.000	χ^2/NDF : 3644052975320.2/43
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.483+/-0.000	χ^2/NDF : 5978683646698.9/5
		All: 402.556+/-0.000	χ^2/NDF : 962314359785

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 12597261.6/20

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 15968605.8/25

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

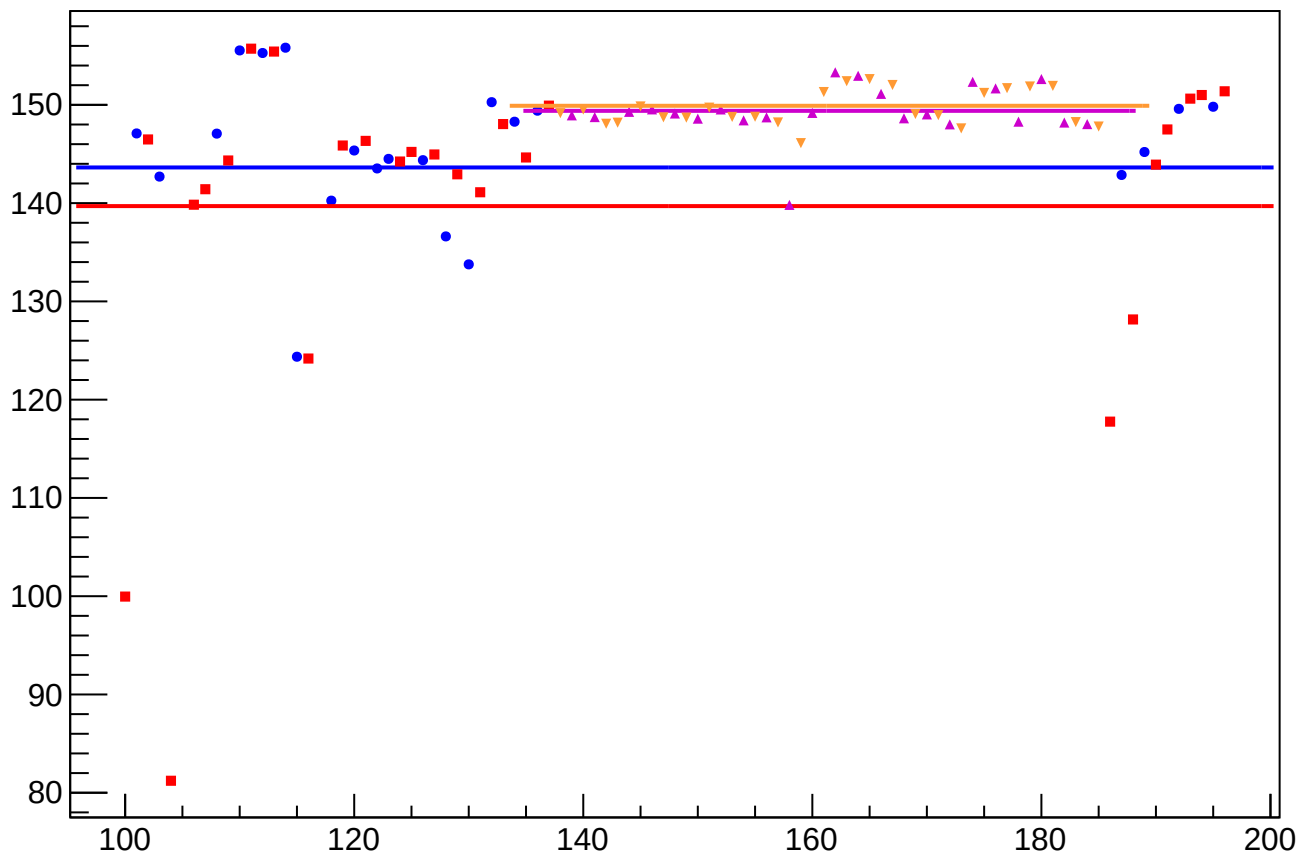
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 28565966.2/46

In: 0.007 $\pm$ 0.000 χ^2 /NDF:39921582.2/43

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:44754664.1/50

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 84676248.9/94

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.630 $\pm$ 0.000 χ^2 /NDF: 1134046361.2/20

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 139.697 $\pm$ 0.000 χ^2 /NDF: 2920287817.3/25

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

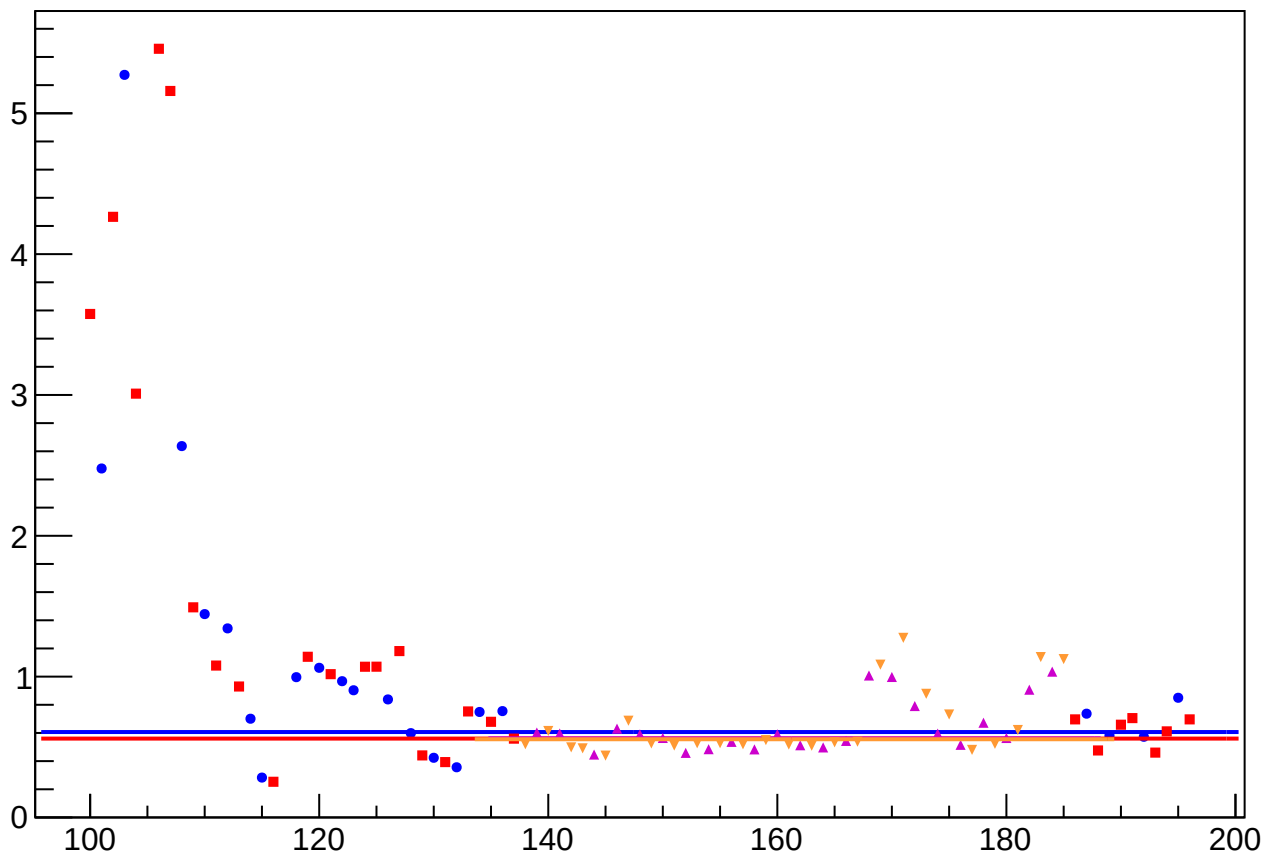
Right: 141.276 $\pm$ 0.000 χ^2 /NDF: 4188029396.2/46

In: 148.049 $\pm$ 0.000 χ^2 /NDF: 1938950574.0/43

Out: 146.871 $\pm$ 0.000 χ^2 /NDF: 4661303710.5/50

All: 147.415 $\pm$ 0.000 χ^2 /NDF: 6646663791.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.000 χ^2 /NDF: 3612949.1/20

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 4866011.9/25

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

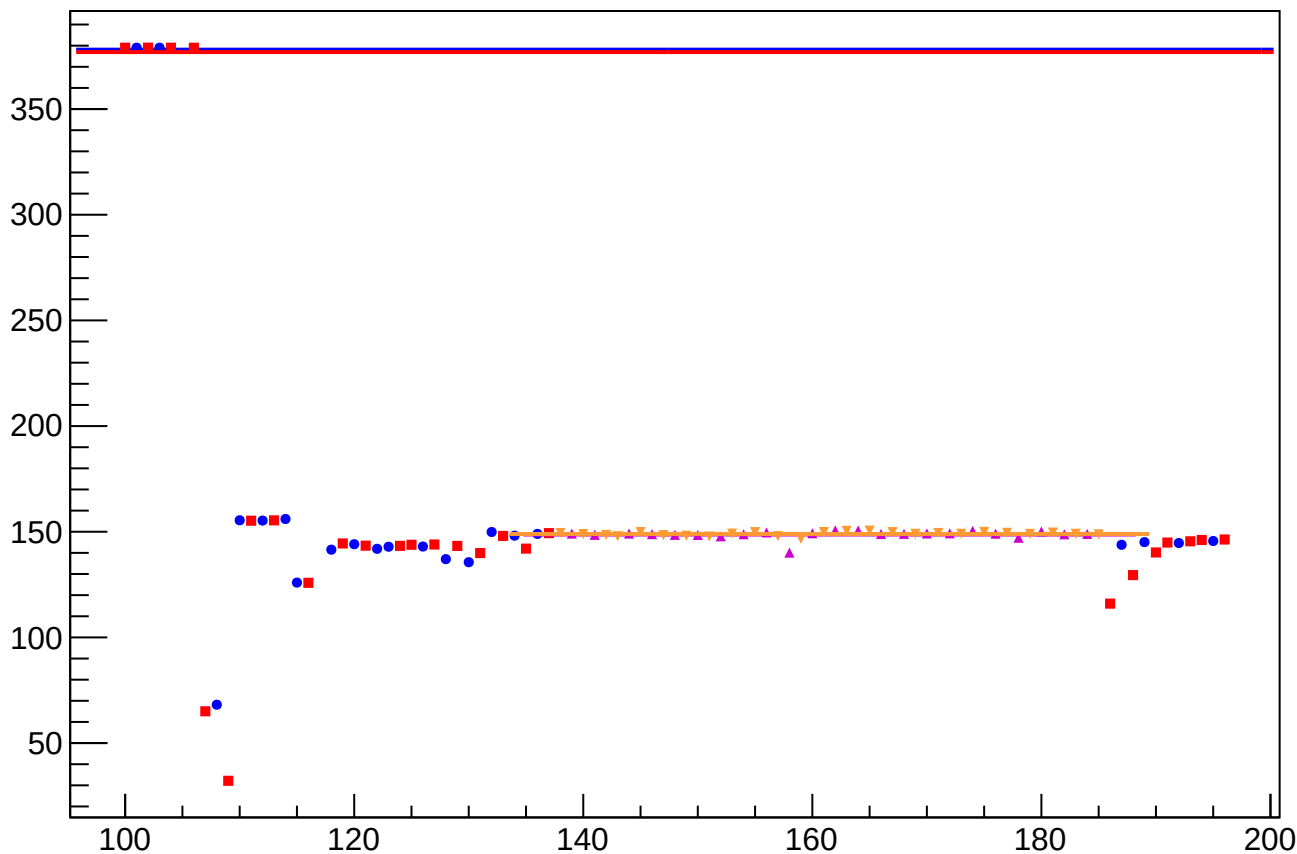
Right: 0.579 $\pm$ 0.000 χ^2 /NDF: 8516399.4/46

In: 0.572 $\pm$ 0.000 χ^2 /NDF:4967844.1/43

Out: 0.557 $\pm$ 0.000 χ^2 /NDF:6640035.9/50

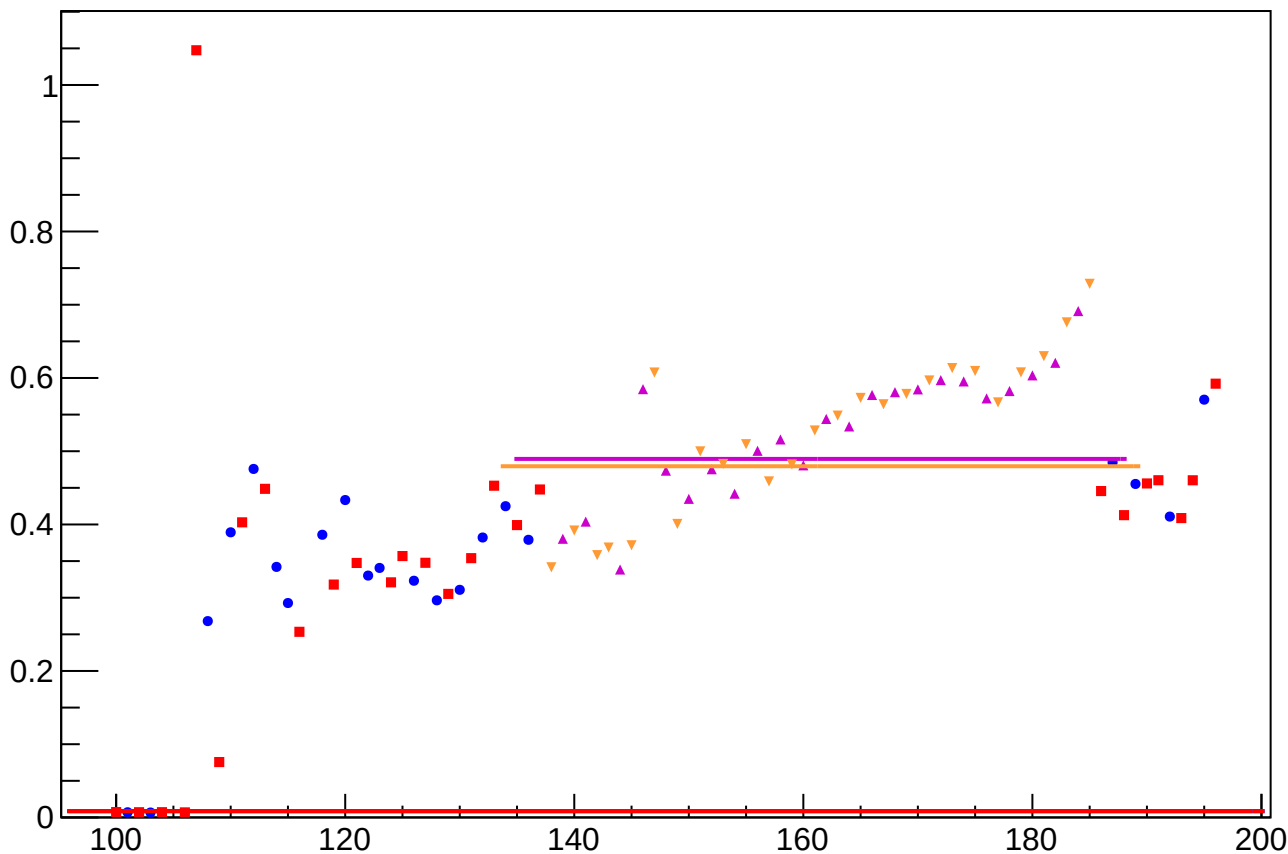
All: 0.564 $\pm$ 0.000 χ^2 /NDF: 11624262.9/94

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.109+/-0.000	χ^2/NDF : 3046878246386.6/20	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.507+/-0.000	χ^2/NDF : 12464243691174.7
Right Out: 376.978+/-0.000	χ^2/NDF : 9408286848603.2/25	In: 376.929+/-0.000	χ^2/NDF : 6655579056627.8/43
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.861+/-0.000	χ^2/NDF : 13281897880720.7
		All: 376.360+/-0.000	χ^2/NDF : 199456148770.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 14117998.7/20

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 17248358.9/25

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

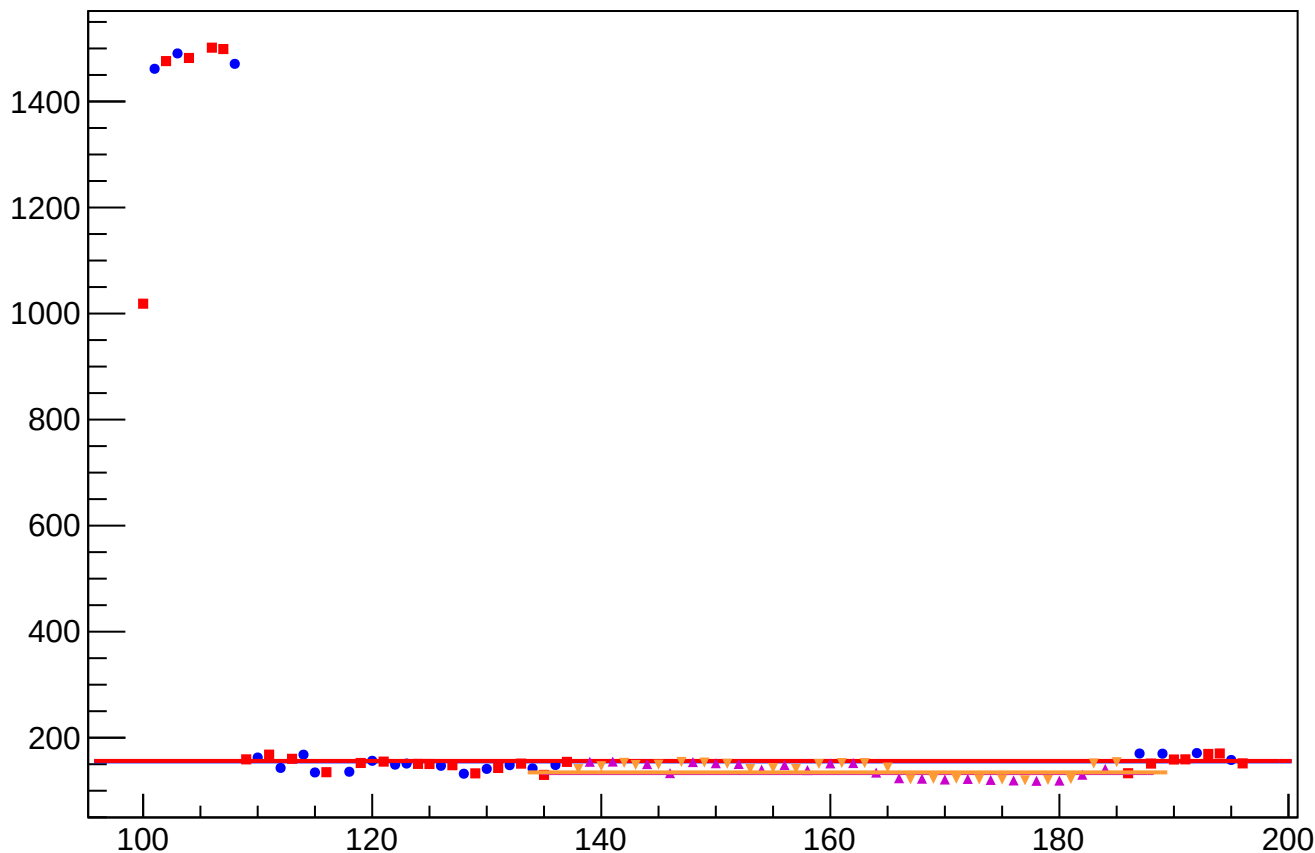
Right: 0.009+/-0.000 χ^2/NDF : 31367236.9/46

In: 0.011+/-0.000 χ^2/NDF :46936797.7/43

Out: 0.011+/-0.000 χ^2/NDF :51786964.7/50

All: 0.011+/-0.000 χ^2/NDF : 98723855.9/94

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.362+/-0.000

χ^2/NDF : 25382769026.4/20

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

Right Out: 156.239+/-0.000

χ^2/NDF : 34646312537.6/25

Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Right: 155.879+/-0.000

χ^2/NDF : 60033203337.2/46

In: 139.566+/-0.000

χ^2/NDF : 32901833936.9/43

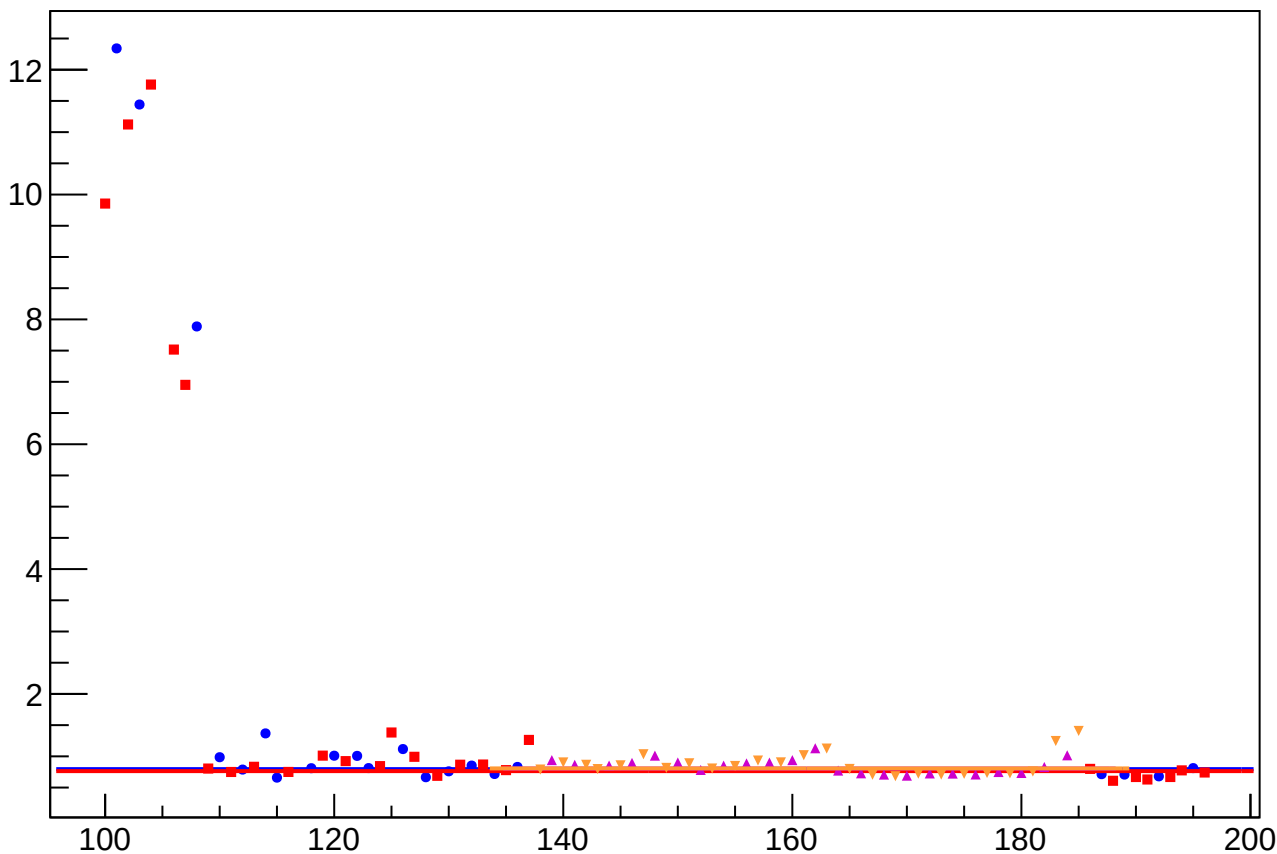
Out: 142.269+/-0.000

χ^2/NDF : 42984055710.8/50

All: 141.011+/-0.000

χ^2/NDF : 76011091860.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.795+/-0.000 χ^2/NDF : 2757673.4/20

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.763+/-0.000 χ^2/NDF : 3124626.4/25

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

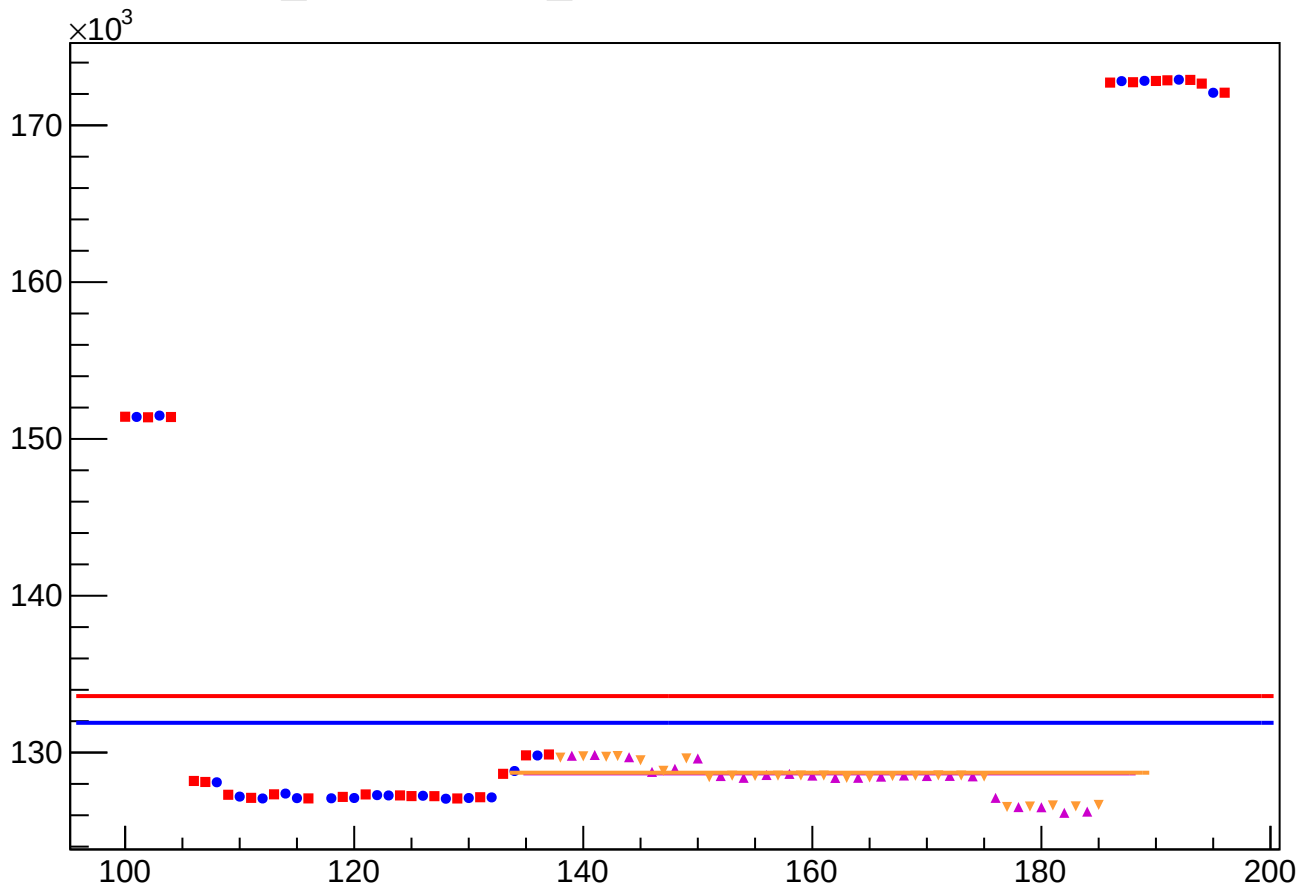
Right: 0.776+/-0.000 χ^2/NDF : 5893129.4/46

In: 0.802+/-0.000 χ^2/NDF : 3238495.7/43

Out: 0.791+/-0.000 χ^2/NDF : 3860322.9/50

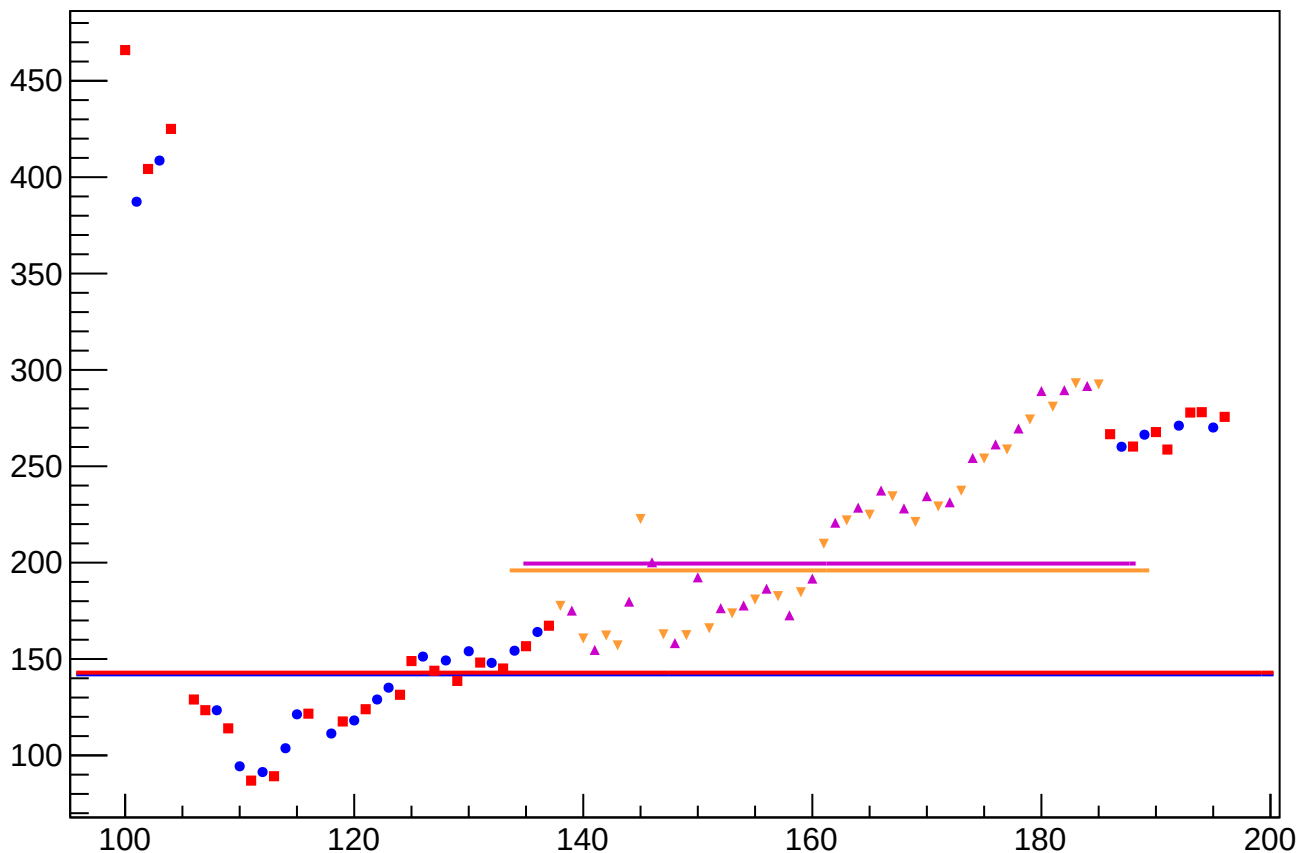
All: 0.796+/-0.000 χ^2/NDF : 7102644.4/94

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 131896.404 $\pm$ 0.052 χ^2 /NDF: 62112289591.4/20
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 133600.728 $\pm$ 0.047 χ^2 /NDF: 103717642471.0/25
 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: 132836.336 $\pm$ 0.035 χ^2 /NDF: 166417685711.4/47
 In: 130175.665 $\pm$ 0.036 χ^2 /NDF: 64484058557.7/47
 Out: 131134.929 $\pm$ 0.033 χ^2 /NDF: 109502466228.0/47
 All: 130690.460 $\pm$ 0.024 χ^2 /NDF: 174374786.0/47

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 142.037+/-0.037 χ^2/NDF : 2610838.4/20

Left Out: 195.964+/-0.033 χ^2/NDF :1316091.7/24

Right Out: 142.928+/-0.033 χ^2/NDF : 3660460.7/25

Left In: 199.531+/-0.035 χ^2/NDF :1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

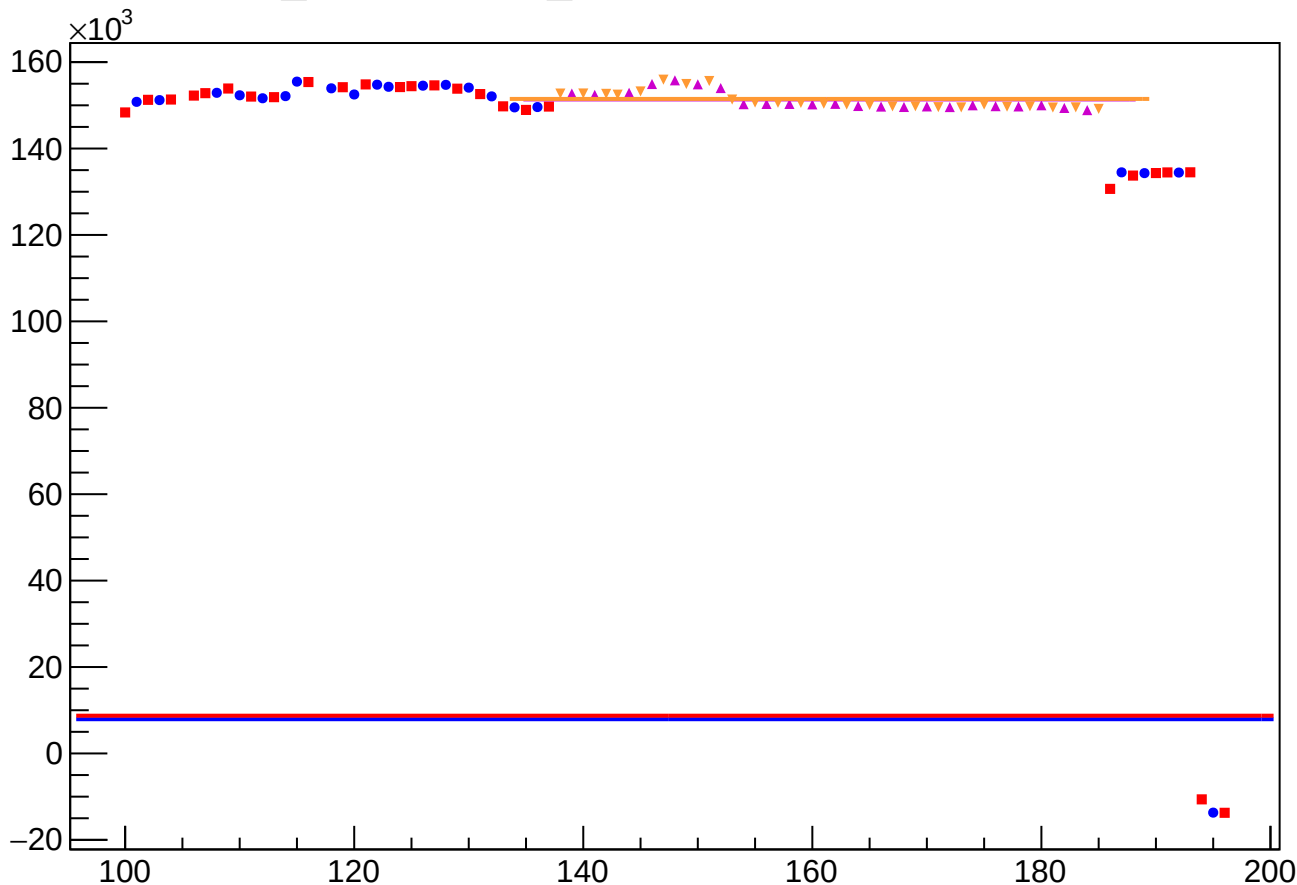
Right: 142.529+/-0.025 χ^2/NDF : 6271620.6/46

In: 172.701+/-0.025 χ^2/NDF :5079881.5/43

Out: 169.688+/-0.023 χ^2/NDF :6257154.1/50

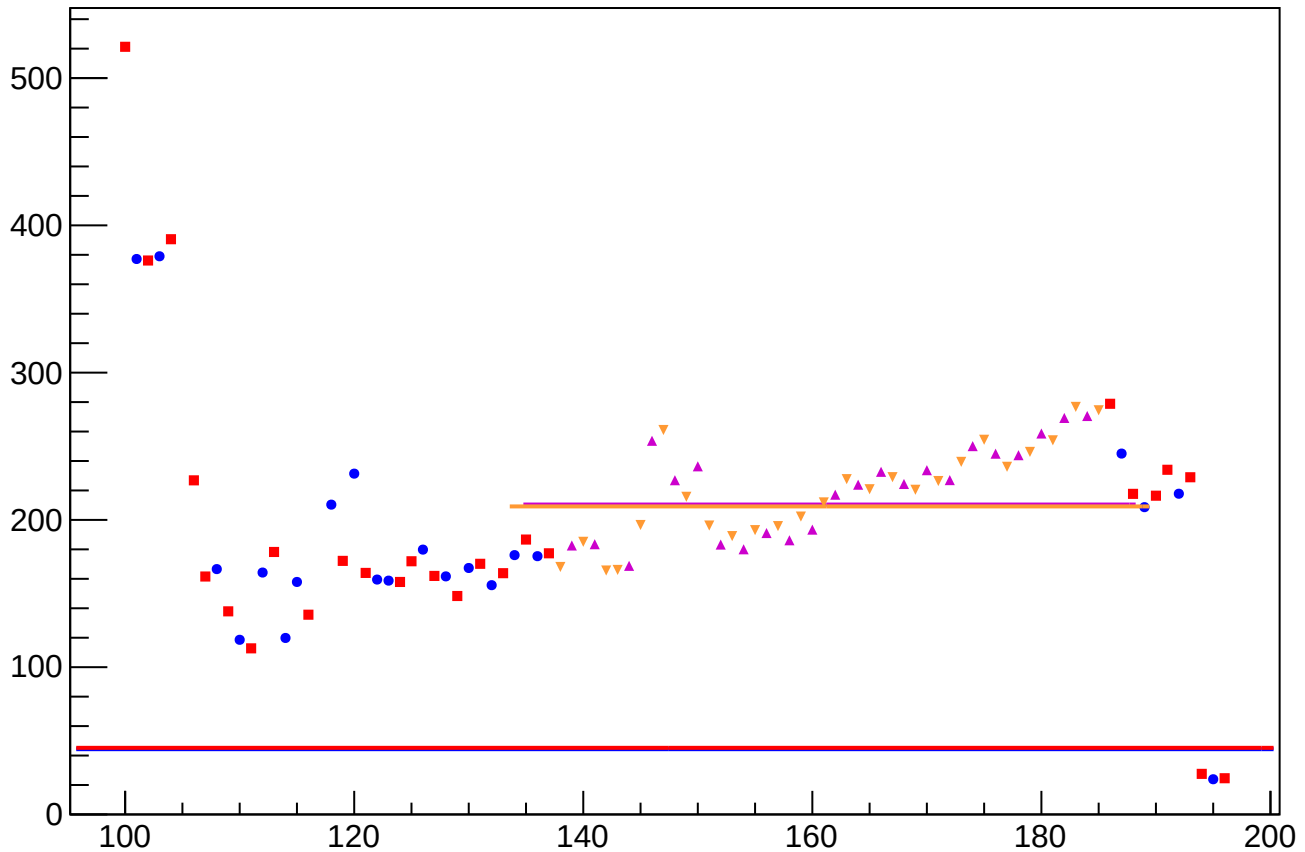
All: 171.084+/-0.017 χ^2/NDF : 11344695.7/94

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 7921.780 $\pm$ 0.024 χ^2 /NDF: 5181002645581.6/20
 Left Out: 151480.339 $\pm$ 0.049 χ^2 /NDF: 1483692735.3/24
 Right Out: 8736.579 $\pm$ 0.022 χ^2 /NDF: 6343896202639.8/25
 Left In: 151362.440 $\pm$ 0.051 χ^2 /NDF: 1426782789.9/22
 Left: 151423.440 $\pm$ 0.036 χ^2 /NDF: 2913216467.1/24
 Right: 8372.343 $\pm$ 0.016 χ^2 /NDF: 11525516840917
 In: 34402.241 $\pm$ 0.022 χ^2 /NDF: 11576457192898
 Out: 32150.809 $\pm$ 0.020 χ^2 /NDF: 13305037665034
 All: 33171.144 $\pm$ 0.015 χ^2 /NDF: 2488721703

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 44.325+/-0.017 χ^2/NDF : 10266193.0/20

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 45.239+/-0.015 χ^2/NDF : 12054465.1/25

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

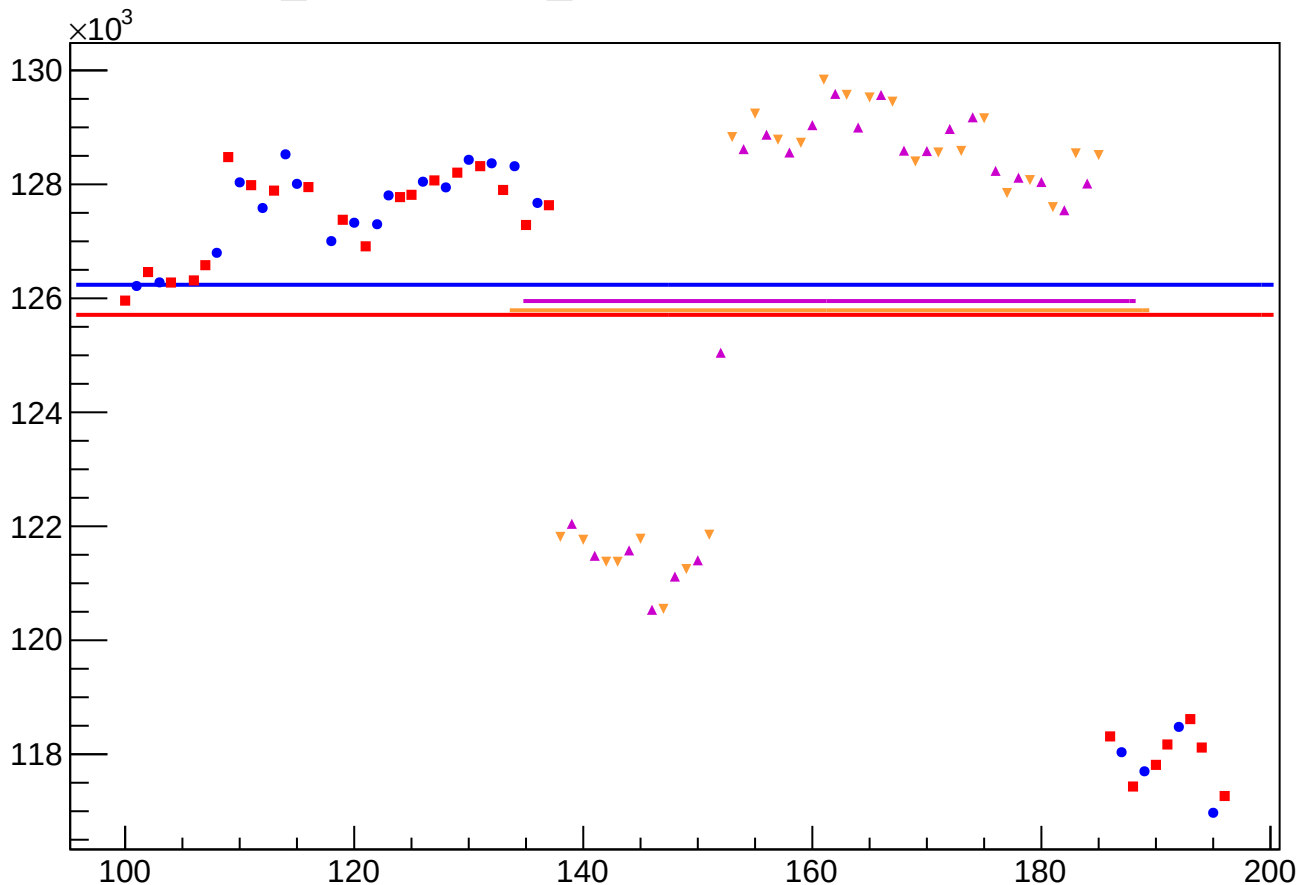
Right: 44.830+/-0.012 χ^2/NDF : 22322212.8/46

In: 74.990+/-0.016 χ^2/NDF : 28098815.8/43

Out: 72.126+/-0.014 χ^2/NDF : 31119401.4/50

All: 73.424+/-0.010 χ^2/NDF : 59236730.1/94

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126238.002 $\pm$ 0.054

χ^2 /NDF: 4433473121.1/20

Left: 125870.001 $\pm$ 0.031

χ^2 /NDF: 12592819321.6/20

Right: 125947.201 $\pm$ 0.036

χ^2 /NDF: 11296666779.9/20

Left Out: 125790.126 $\pm$ 0.044

χ^2 /NDF: 6744310079.8/24

In: 126068.686 $\pm$ 0.034

χ^2 /NDF: 10291913443.0/24

Right Out: 125710.249 $\pm$ 0.049

χ^2 /NDF: 6810374488.7/25

Out: 125754.227 $\pm$ 0.033

χ^2 /NDF: 13556168339.6/25

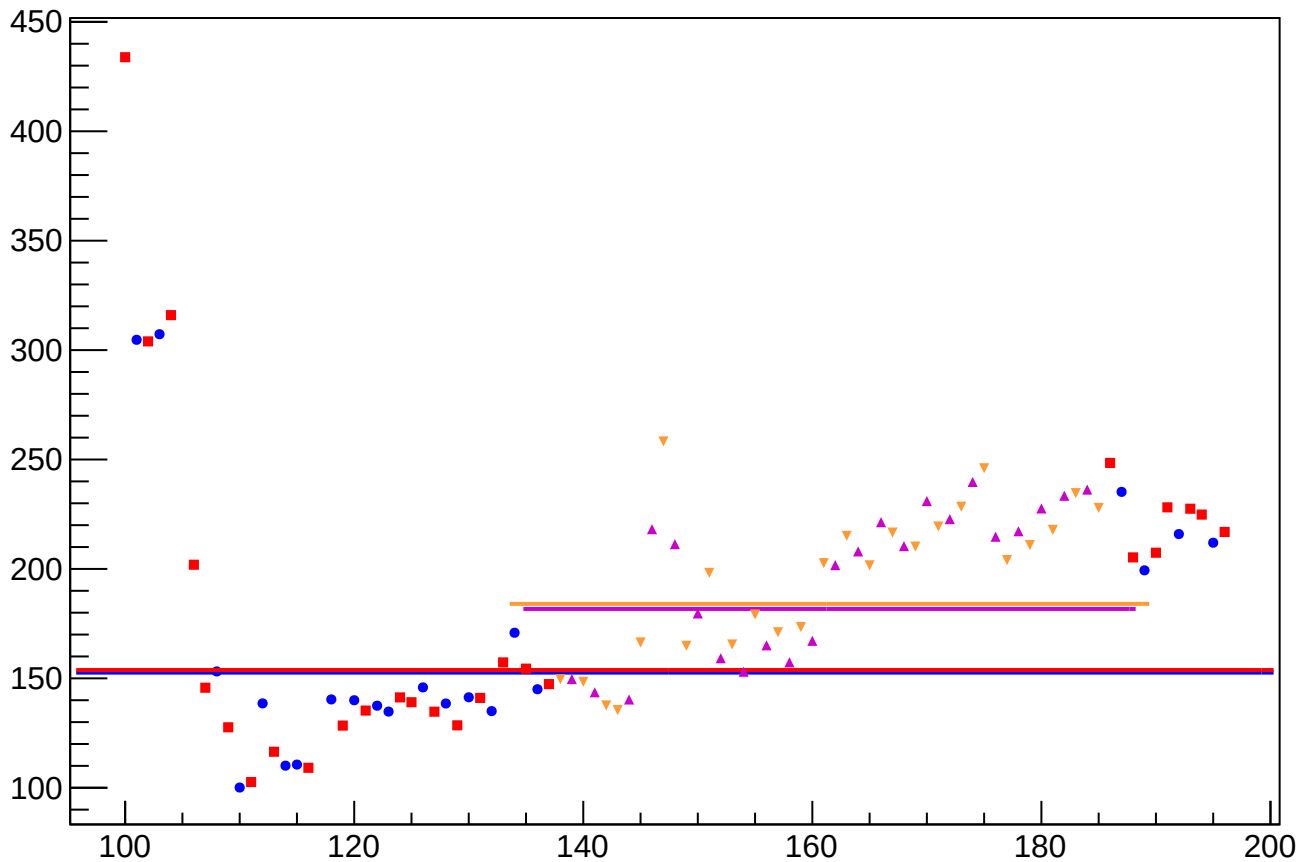
Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 5841800367.5/22

All: 125903.148 $\pm$ 0.024

χ^2 /NDF: 238920930.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 152.621+/-0.038 χ^2/NDF : 1265718.8/20

Left Out: 184.029+/-0.031 χ^2/NDF : 1126592.5/24

Right Out: 153.805+/-0.034 χ^2/NDF : 1912249.2/25

Left In: 181.714+/-0.032 χ^2/NDF : 1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

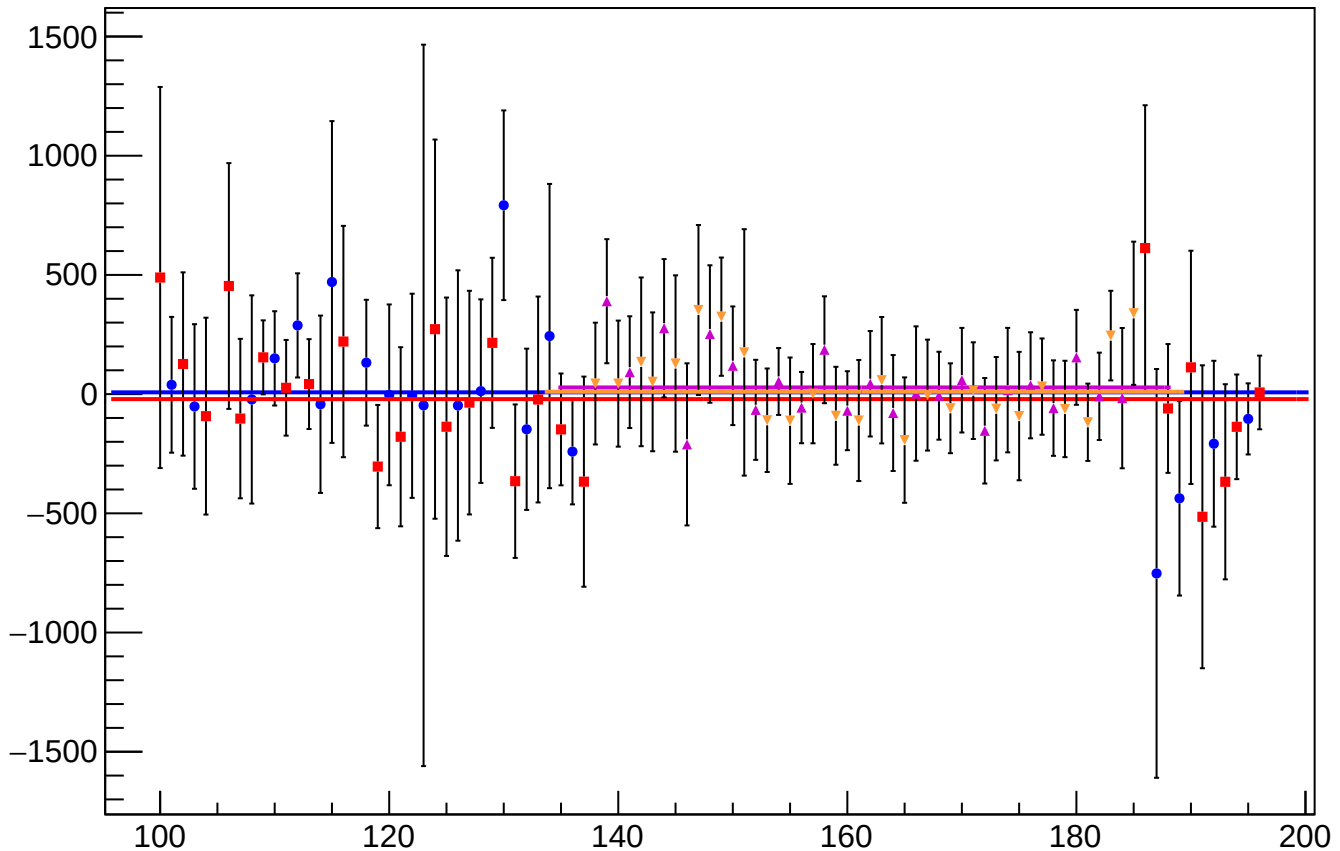
Right: 153.273+/-0.026 χ^2/NDF : 3178499.6/46

In: 169.871+/-0.024 χ^2/NDF : 2727308.2/43

Out: 170.446+/-0.023 χ^2/NDF : 3463720.0/50

All: 170.174+/-0.017 χ^2/NDF : 6191322.0/94

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 7.504 ± 67.806 $\chi^2/\text{NDF}: 11.4/20$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -20.878 ± 58.204 $\chi^2/\text{NDF}: 10.1/25$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

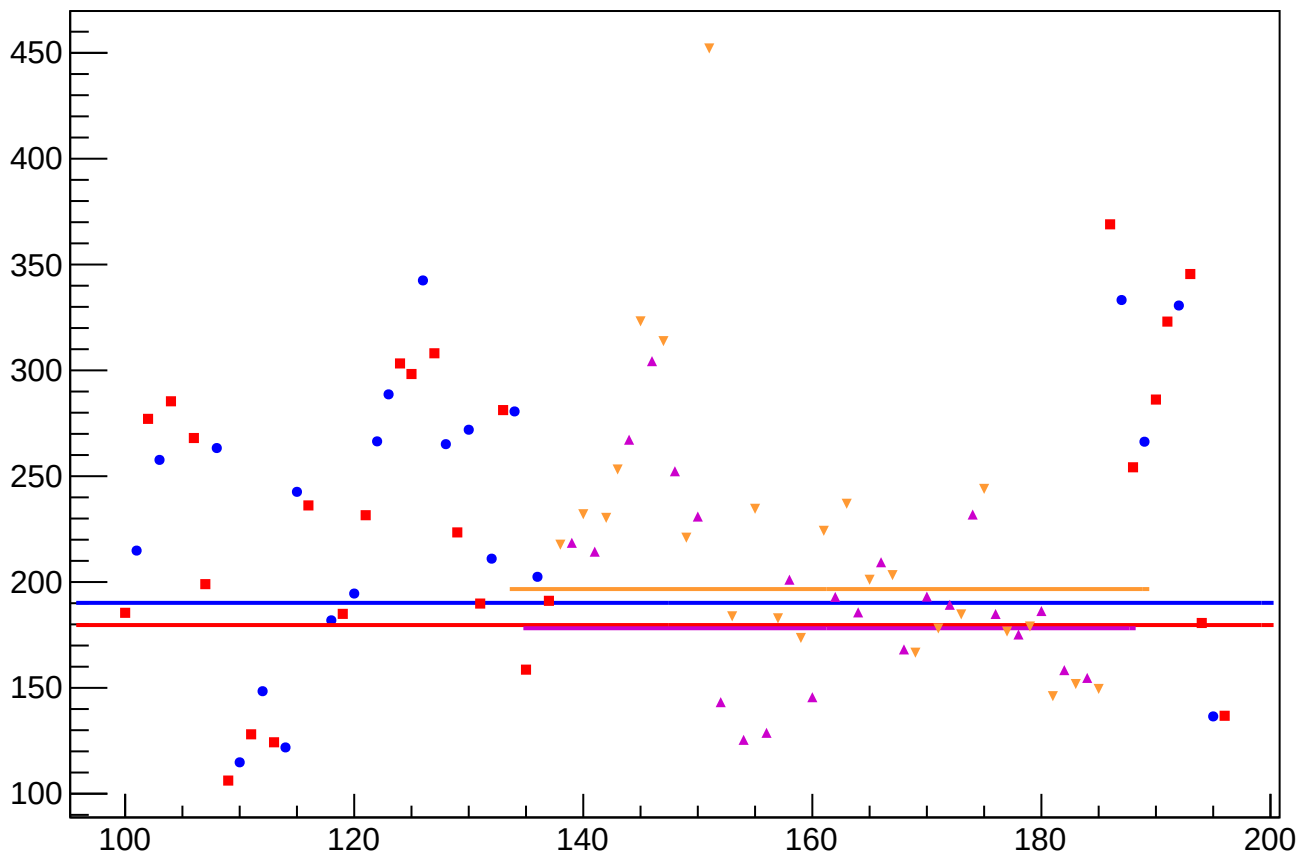
Right: -8.837 ± 44.164 $\chi^2/\text{NDF}: 21.5/46$

In: 21.850 ± 37.246 $\chi^2/\text{NDF}: 18.4/43$

Out: -2.293 ± 36.795 $\chi^2/\text{NDF}: 18.7/50$

All: 9.631 ± 26.176 $\chi^2/\text{NDF}: 37.3/94$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 190.165 $\pm$ 0.048 χ^2 /NDF: 1733631.6/20

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF: 1782715.7/24

Right Out: 179.676 $\pm$ 0.041 χ^2 /NDF: 2629777.6/25

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

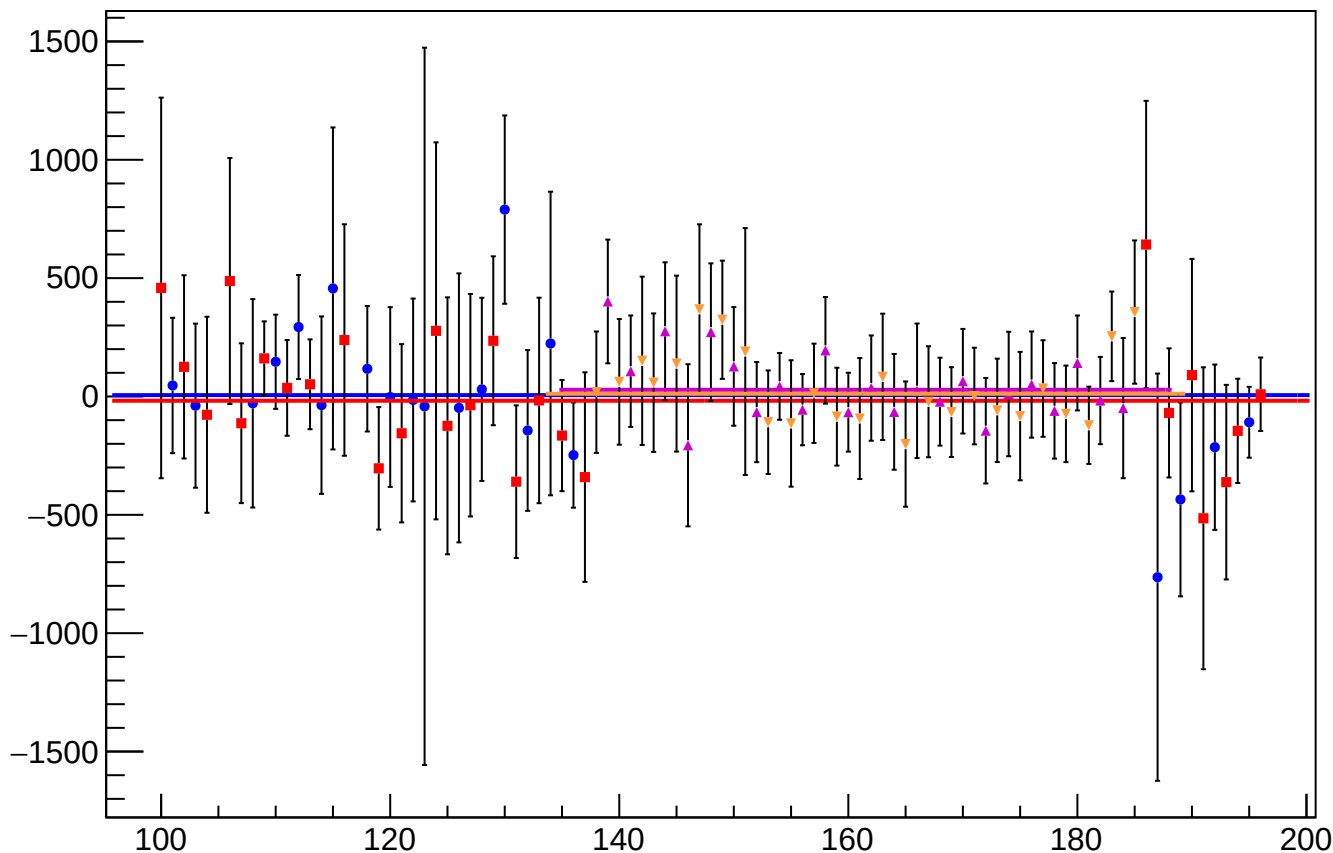
Right: 184.126 $\pm$ 0.031 χ^2 /NDF: 4390960.6/46

In: 181.786 $\pm$ 0.026 χ^2 /NDF: 3396331.9/43

Out: 189.885 $\pm$ 0.026 χ^2 /NDF: 4514988.8/50

All: 185.885 $\pm$ 0.019 χ^2 /NDF: 7959184.2/94

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 5.773 ± 68.119 $\chi^2/\text{NDF}: 11.3/20$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -17.942 ± 58.509 $\chi^2/\text{NDF}: 10.3/25$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

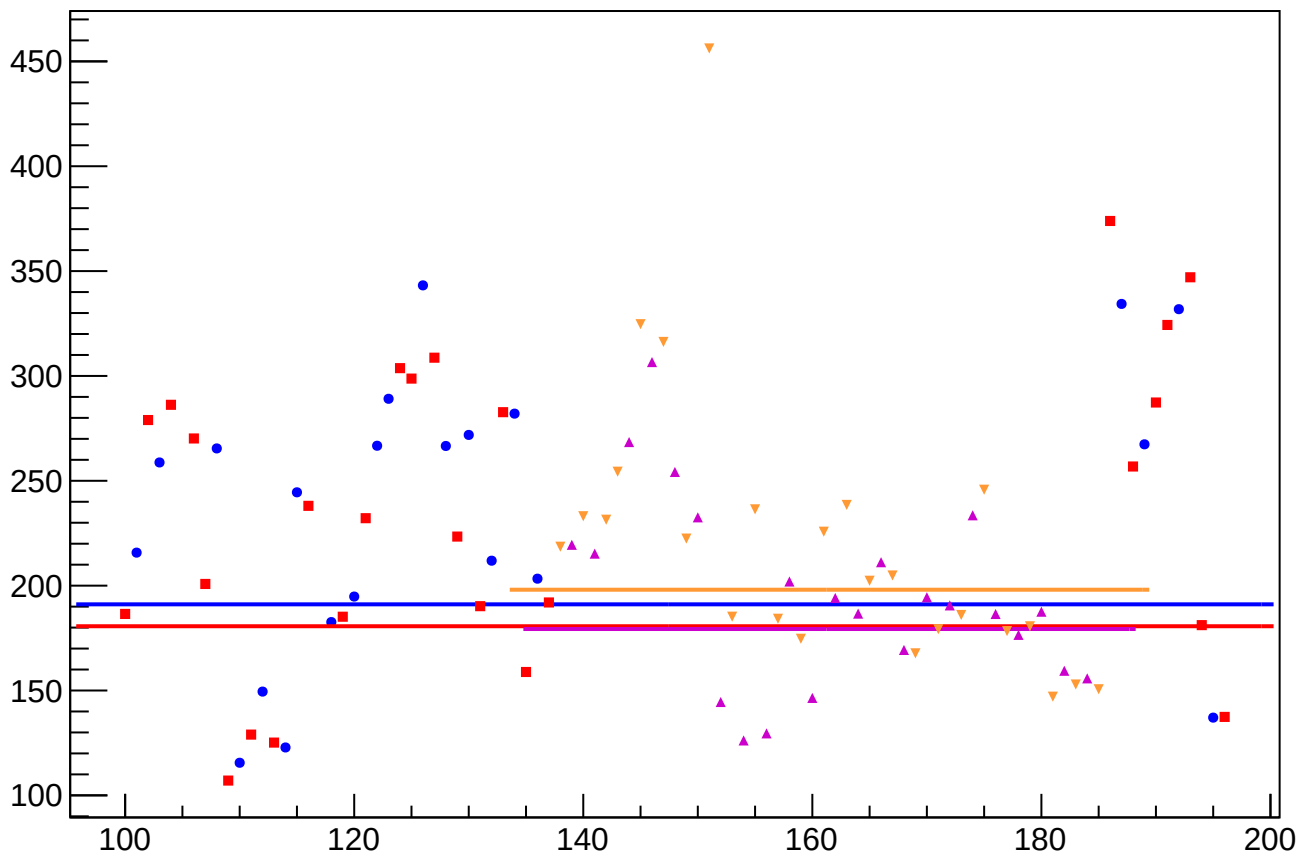
Right: -7.874 ± 44.384 $\chi^2/\text{NDF}: 21.7/46$

In: 21.471 ± 37.467 $\chi^2/\text{NDF}: 18.5/43$

Out: -0.303 ± 37.026 $\chi^2/\text{NDF}: 19.3/50$

All: 10.455 ± 26.336 $\chi^2/\text{NDF}: 38.0/94$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 191.090 $\pm$ 0.048 χ^2/NDF : 1725206.3/20

Left Out: 198.059 $\pm$ 0.034 χ^2/NDF : 1778526.5/24

Right Out: 180.646 $\pm$ 0.041 χ^2/NDF : 2623569.8/25

Left In: 179.324 $\pm$ 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2/NDF : 3560073.1/47

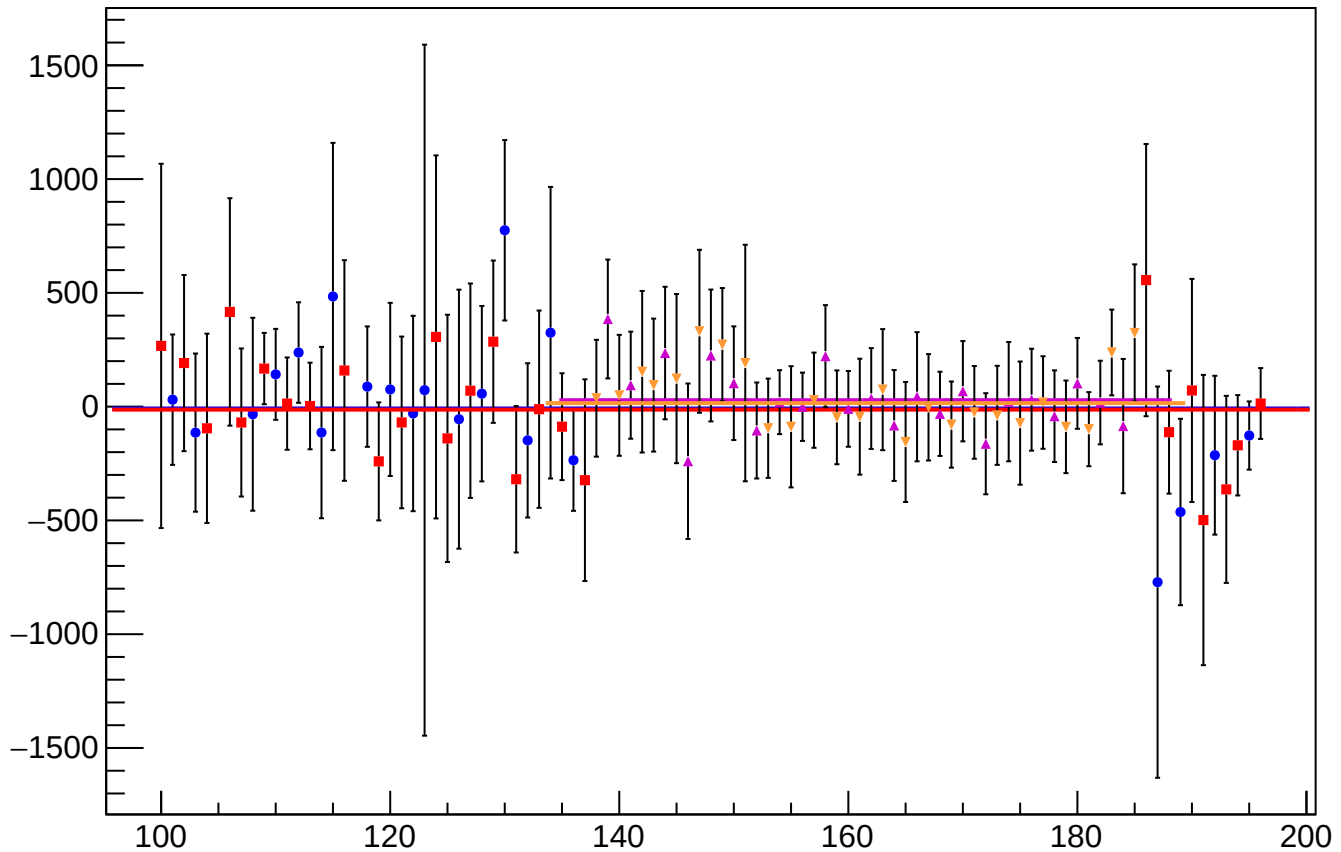
Right: 185.080 $\pm$ 0.031 χ^2/NDF : 4375833.1/46

In: 182.883 $\pm$ 0.026 χ^2/NDF : 3385091.3/43

Out: 191.085 $\pm$ 0.026 χ^2/NDF : 4508305.0/50

All: 187.033 $\pm$ 0.019 χ^2/NDF : 7941884.8/94

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -8.078 ± 68.132 $\chi^2/\text{NDF}: 11.1/20$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -13.118 ± 58.458 $\chi^2/\text{NDF}: 8.8/25$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

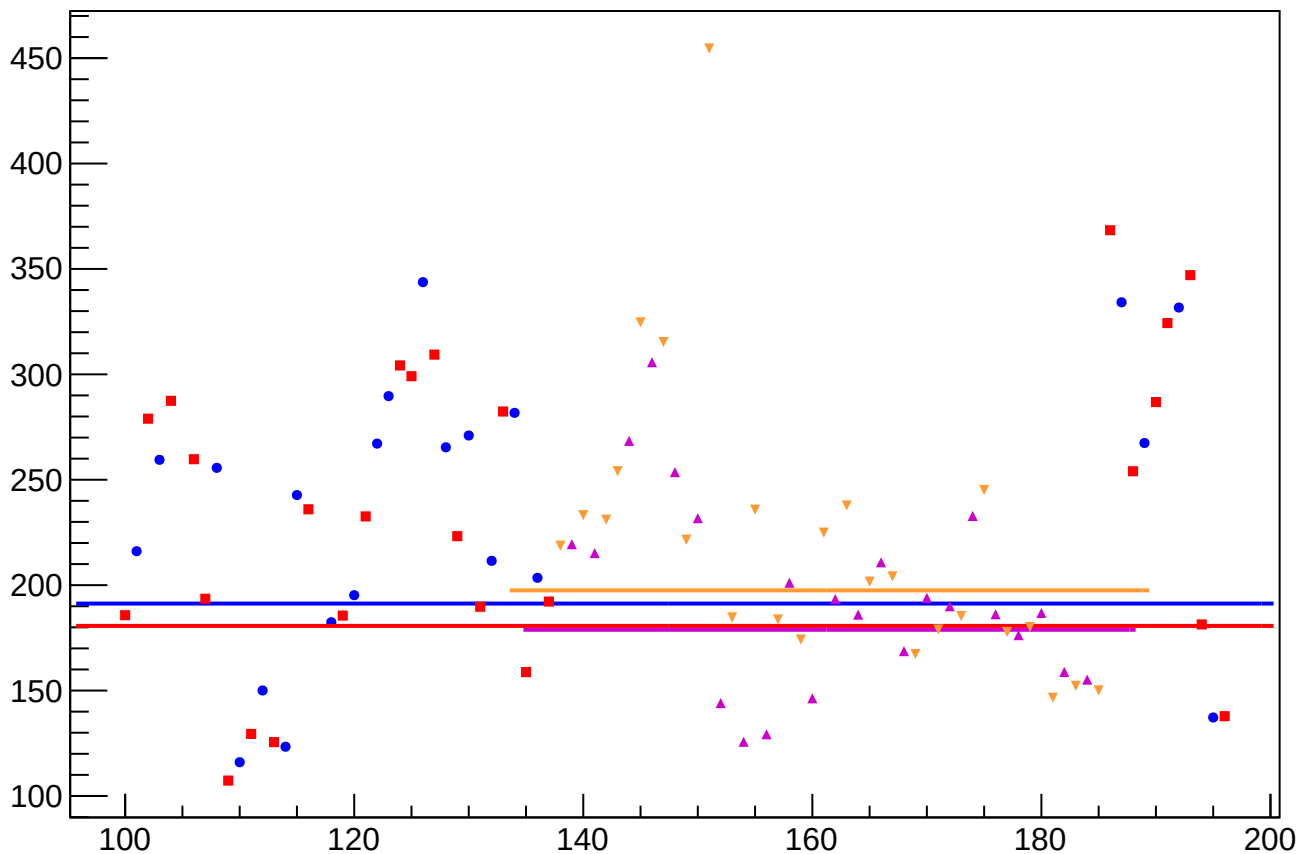
Right: -10.981 ± 44.365 $\chi^2/\text{NDF}: 20.0/46$

In: 17.322 ± 37.400 $\chi^2/\text{NDF}: 17.7/43$

Out: 4.025 ± 36.955 $\chi^2/\text{NDF}: 15.9/50$

All: 10.594 ± 26.287 $\chi^2/\text{NDF}: 33.7/94$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 191.268 ± 0.048 $\chi^2/\text{NDF}: 1701008.5/20$

Left Out: 197.527 ± 0.034 $\chi^2/\text{NDF}: 1784225.5/24$

Right Out: 180.671 ± 0.041 $\chi^2/\text{NDF}: 2582354.4/25$

Left In: 178.836 ± 0.032 $\chi^2/\text{NDF}: 1622266.9/22$

Left: 187.585 ± 0.023 $\chi^2/\text{NDF}: 3569877.1/47$

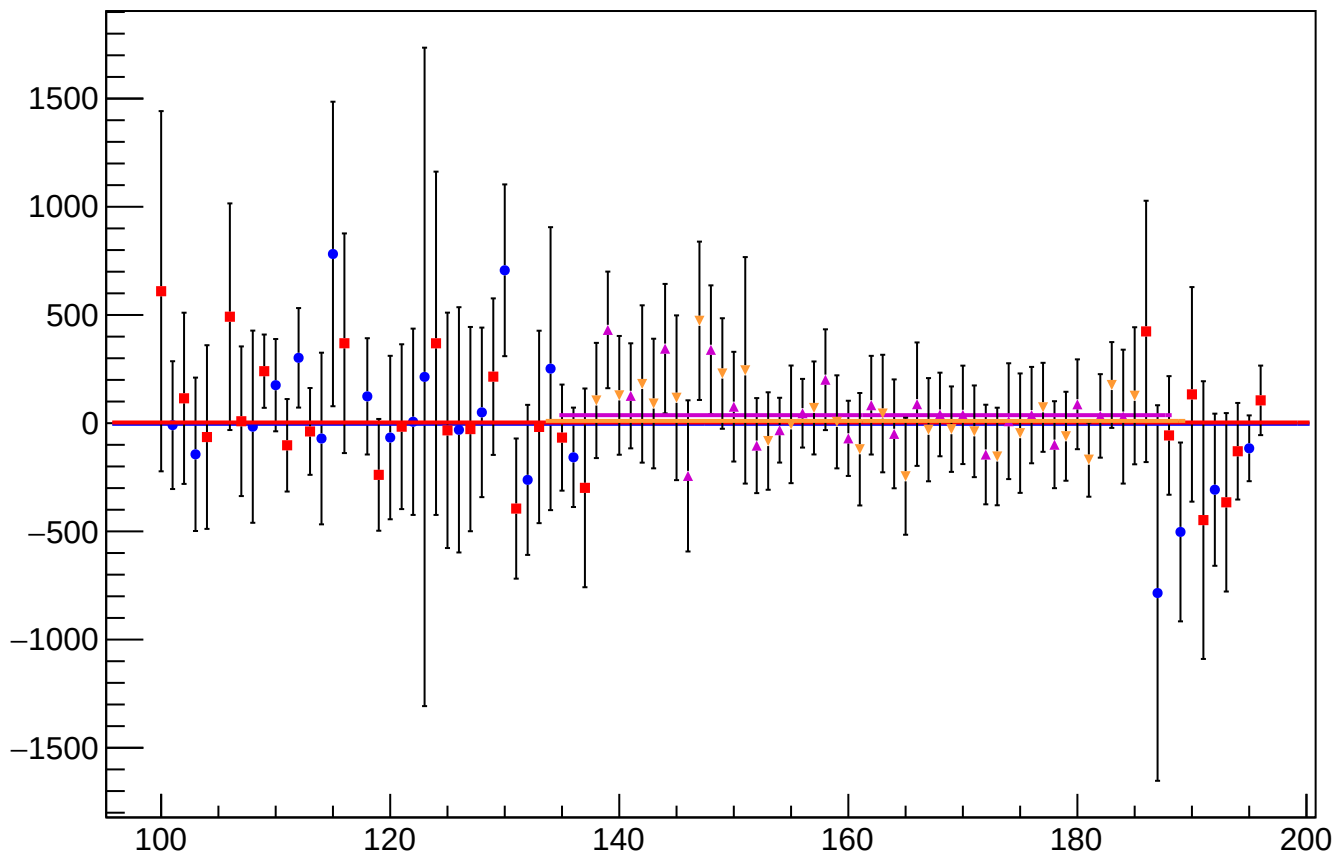
Right: 185.164 ± 0.031 $\chi^2/\text{NDF}: 4311233.0/46$

In: 182.582 ± 0.026 $\chi^2/\text{NDF}: 3369804.7/43$

Out: 190.791 ± 0.026 $\chi^2/\text{NDF}: 4466418.0/50$

All: 186.735 ± 0.019 $\chi^2/\text{NDF}: 7884974.9/94$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -2.962 ± 69.912 $\chi^2/\text{NDF}: 12.1/20$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: 3.212 ± 60.512 $\chi^2/\text{NDF}: 10.4/25$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

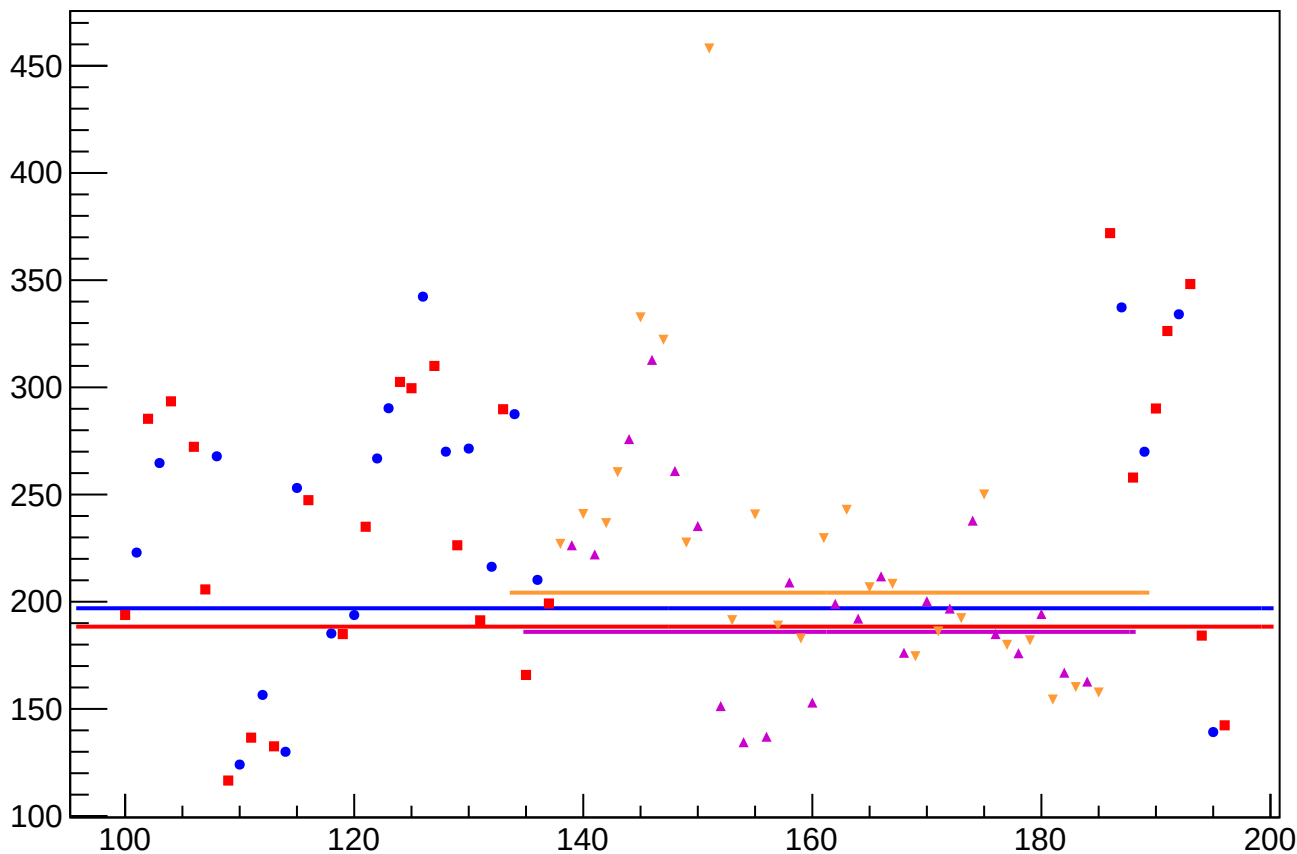
Right: 0.567 ± 45.754 $\chi^2/\text{NDF}: 22.5/46$

In: 24.795 ± 38.636 $\chi^2/\text{NDF}: 20.2/43$

Out: 7.620 ± 38.173 $\chi^2/\text{NDF}: 17.9/50$

All: 16.104 ± 27.154 $\chi^2/\text{NDF}: 38.2/94$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 196.953 $\pm$ 0.049 χ^2/NDF : 1599532.0/20

Left Out: 204.236 $\pm$ 0.035 χ^2/NDF :1675666.0/24

Right Out: 188.374 $\pm$ 0.043 χ^2/NDF : 2345955.3/25

Left In: 185.931 $\pm$ 0.033 χ^2/NDF :1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2/NDF : 3282383.3/47

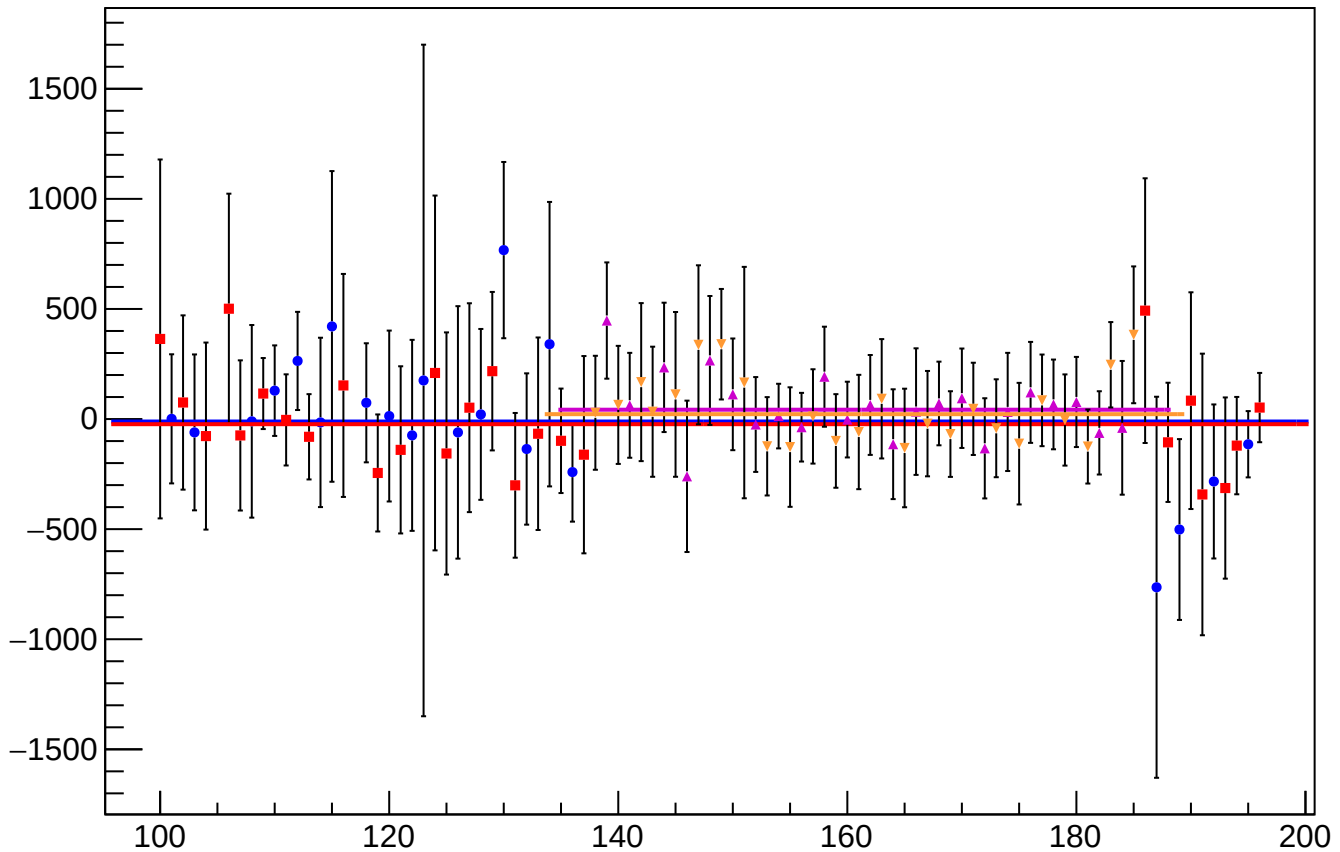
Right: 192.048 $\pm$ 0.032 χ^2/NDF : 3962702.5/46

In: 189.297 $\pm$ 0.027 χ^2/NDF :3094121.5/43

Out: 197.924 $\pm$ 0.027 χ^2/NDF :4104353.3/50

All: 193.663 $\pm$ 0.019 χ^2/NDF : 7248928.4/94

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -11.195 ± 69.082 $\chi^2/\text{NDF}: 11.0/20$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -23.331 ± 59.434 $\chi^2/\text{NDF}: 6.7/25$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

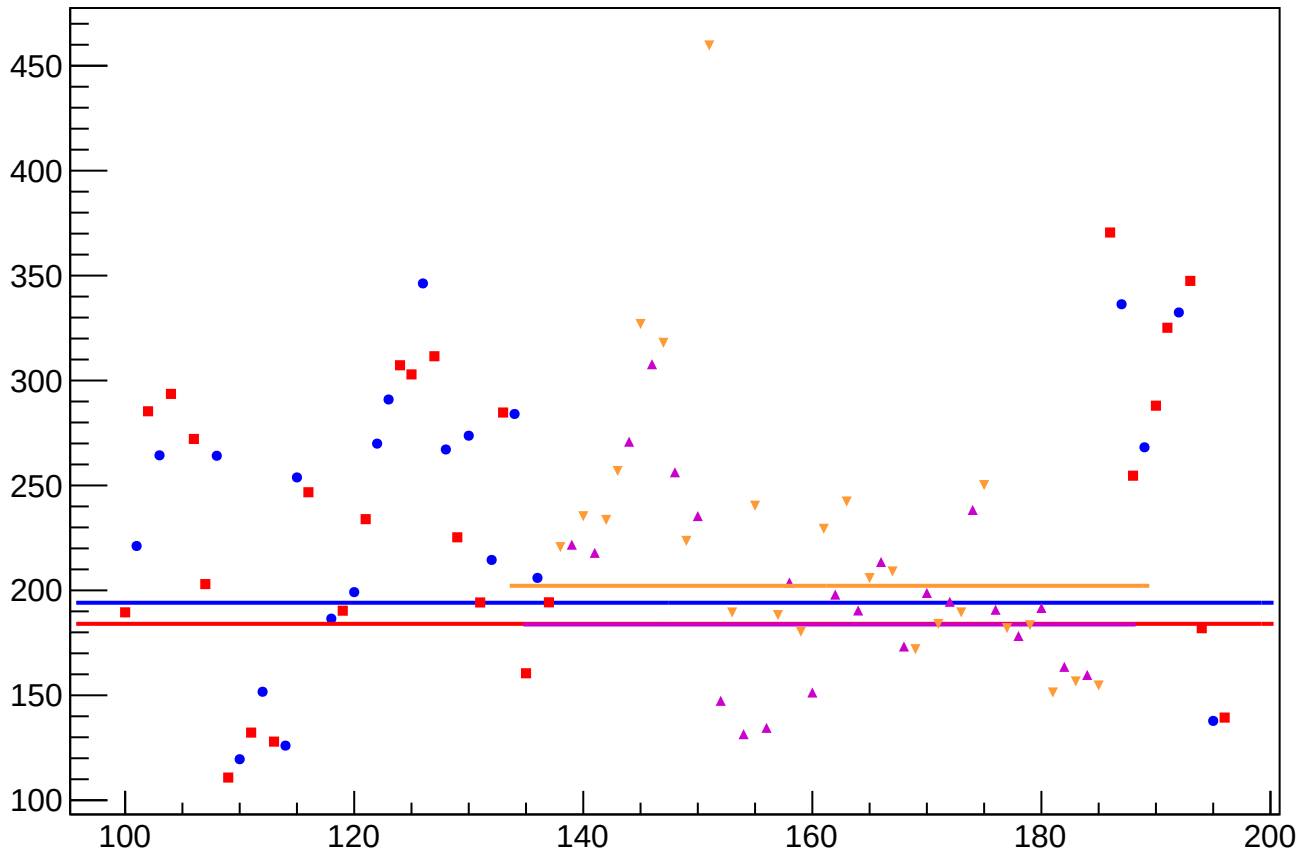
Right: -18.169 ± 45.054 $\chi^2/\text{NDF}: 17.7/46$

In: 26.037 ± 38.208 $\chi^2/\text{NDF}: 18.2/43$

Out: 3.886 ± 37.687 $\chi^2/\text{NDF}: 15.4/50$

All: 14.810 ± 26.831 $\chi^2/\text{NDF}: 33.8/94$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 194.107 ± 0.049 $\chi^2/NDF: 1684436.5/20$

Left Out: 202.186 ± 0.034 $\chi^2/NDF: 1696571.9/24$

Right Out: 184.058 ± 0.042 $\chi^2/NDF: 2530763.6/25$

Left In: 183.732 ± 0.032 $\chi^2/NDF: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/NDF: 3344580.1/47$

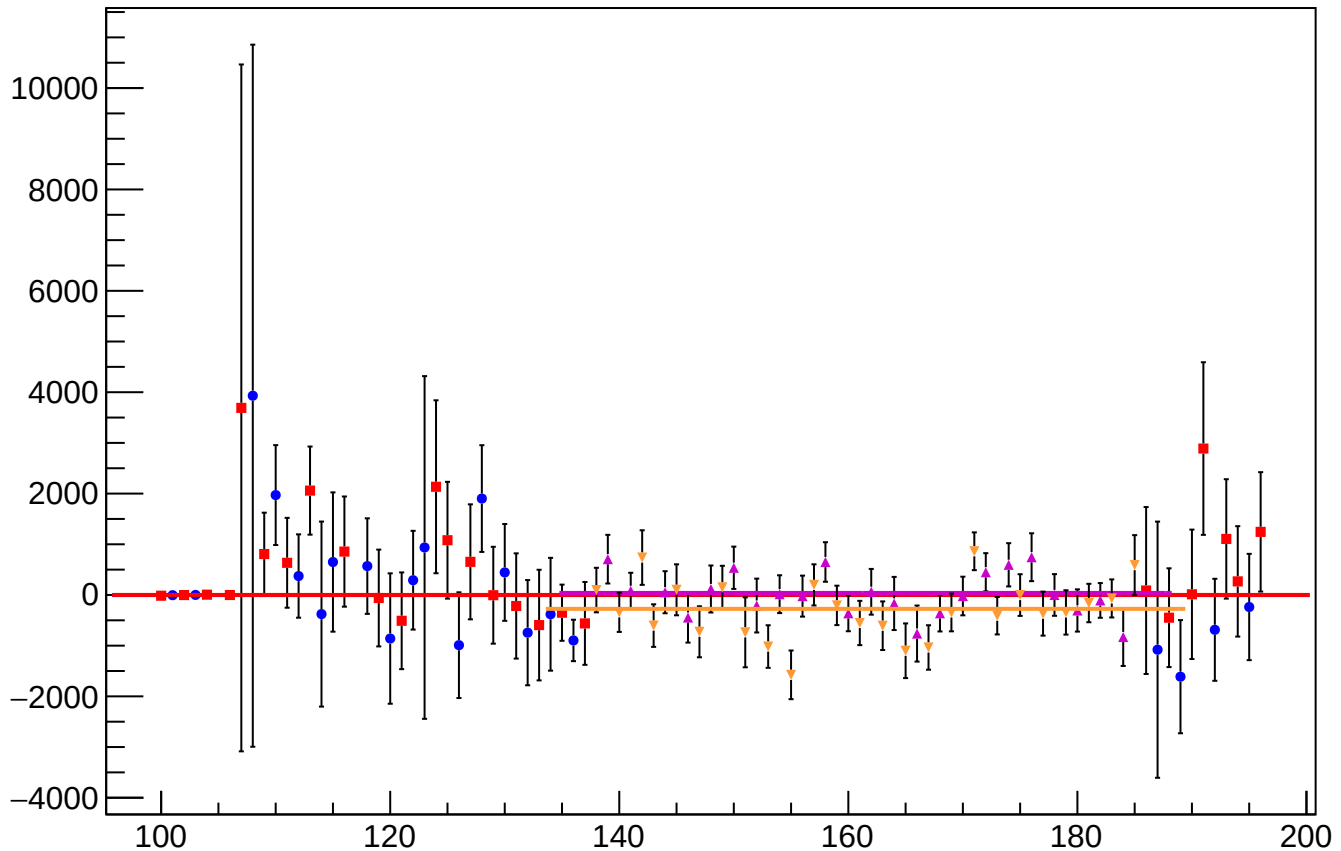
Right: 188.332 ± 0.032 $\chi^2/NDF: 4239522.8/46$

In: 186.906 ± 0.027 $\chi^2/NDF: 3211678.4/43$

Out: 194.897 ± 0.027 $\chi^2/NDF: 4338594.2/50$

All: 190.956 ± 0.019 $\chi^2/NDF: 7594615.9/94$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.540 ± 2.251 χ^2/NDF : 19.7/20

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.742 ± 2.111 χ^2/NDF : 23.4/25

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

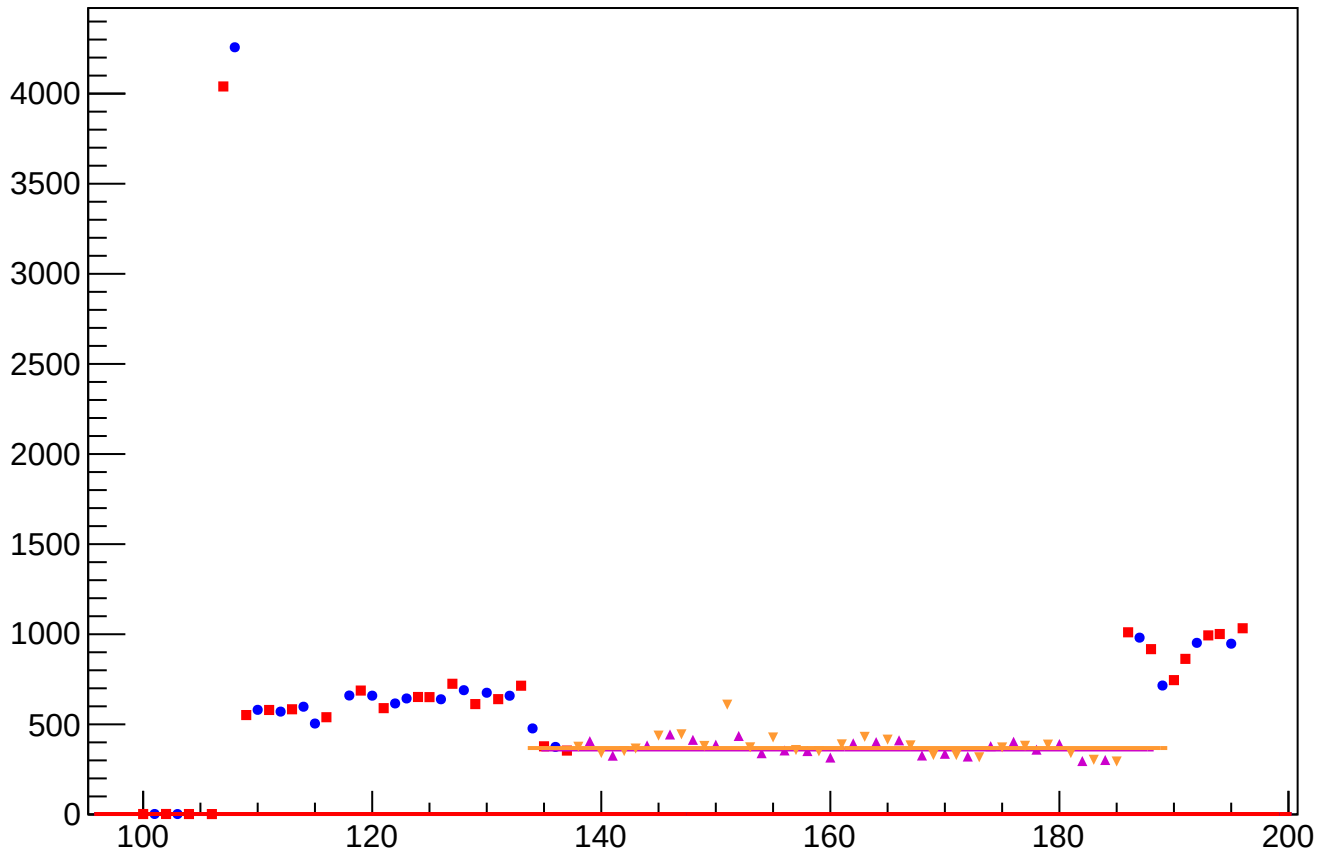
Right: -0.326 ± 1.540 χ^2/NDF : 43.6/46

In: -1.513 ± 2.251 χ^2/NDF : 40.1/43

Out: 0.580 ± 2.110 χ^2/NDF : 71.7/50

All: -0.399 ± 1.540 χ^2/NDF : 112.2/94

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.469 $\pm$ 0.002 χ^2 /NDF: 15190779.7/20

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.456 $\pm$ 0.001 χ^2 /NDF: 19426963.2/25

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF: 421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

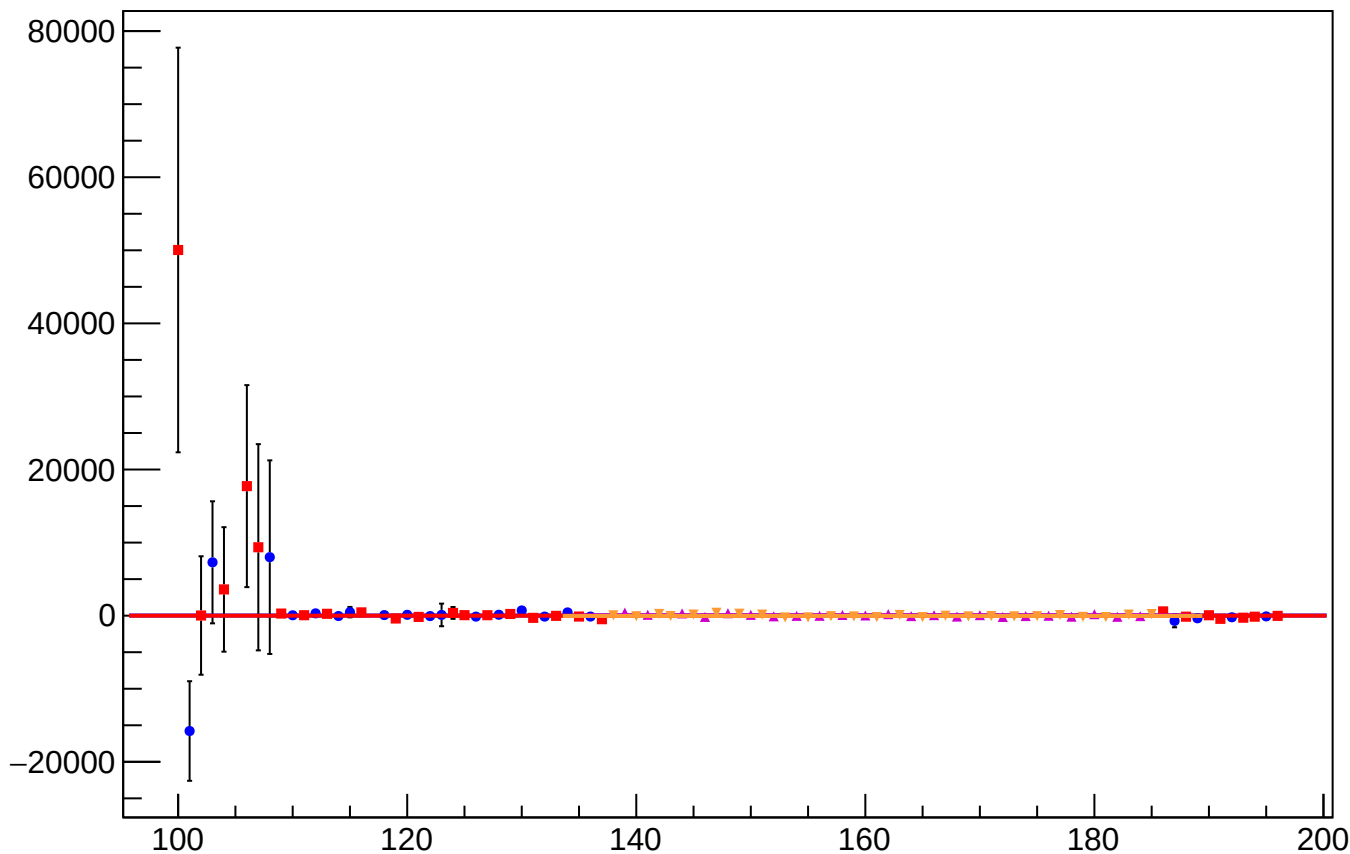
Right: 2.462 $\pm$ 0.001 χ^2 /NDF: 34617776.3/46

In: 2.706 $\pm$ 0.002 χ^2 /NDF: 49112386.8/43

Out: 2.672 $\pm$ 0.001 χ^2 /NDF: 55540109.9/50

All: 2.688 $\pm$ 0.001 χ^2 /NDF: 104652734.6/94

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 20.393+/-76.839 χ^2/NDF : 15.2/20

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -2.510+/-67.908 χ^2/NDF : 16.8/25

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

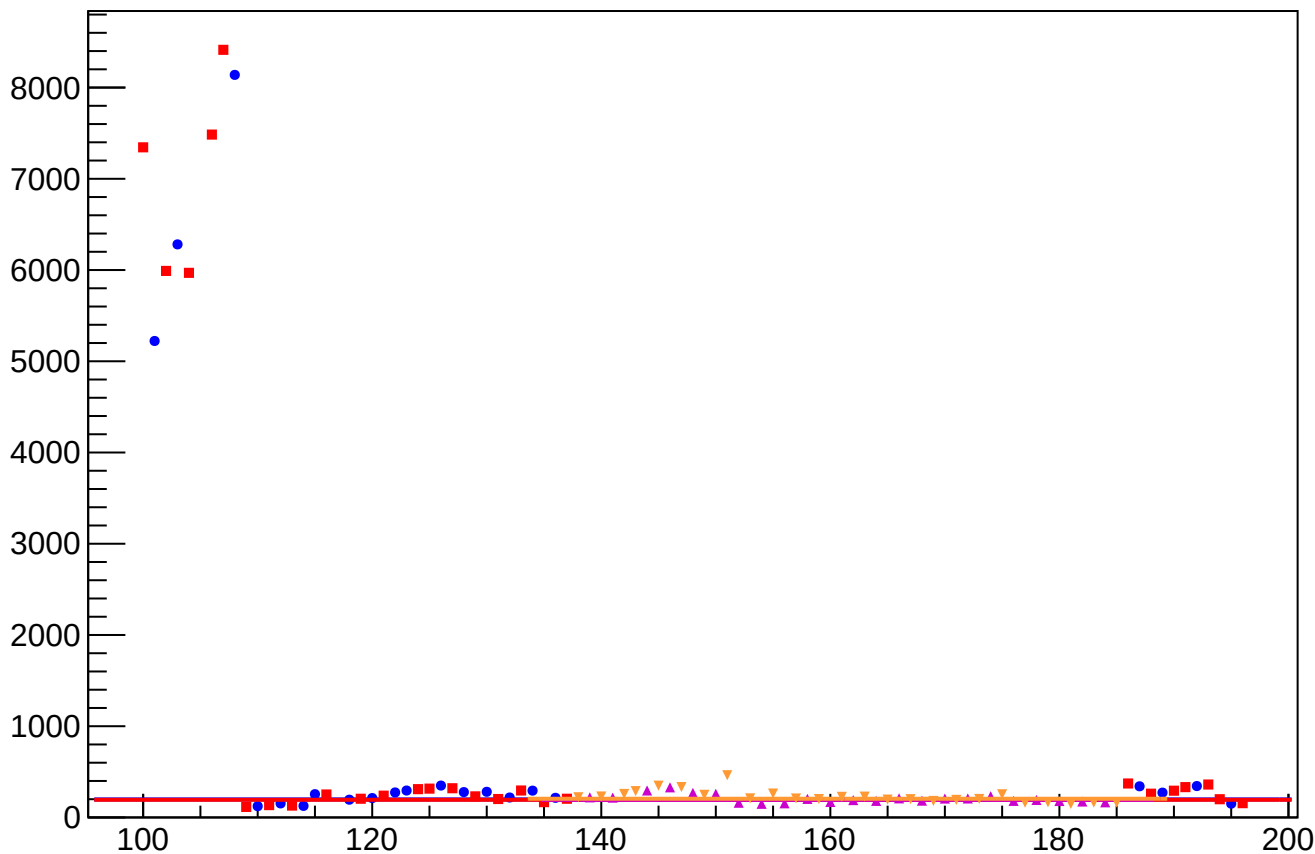
Right: 7.534+/-50.884 χ^2/NDF : 32.0/46

In: 25.907+/-40.729 χ^2/NDF : 24.9/43

Out: -26.337+/-40.041 χ^2/NDF : 26.1/50

All: -0.660+/-28.553 χ^2/NDF : 51.8/94

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.865+/-0.054 χ^2/NDF : 4301995.1/20

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 193.546+/-0.048 χ^2/NDF : 5226091.0/25

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

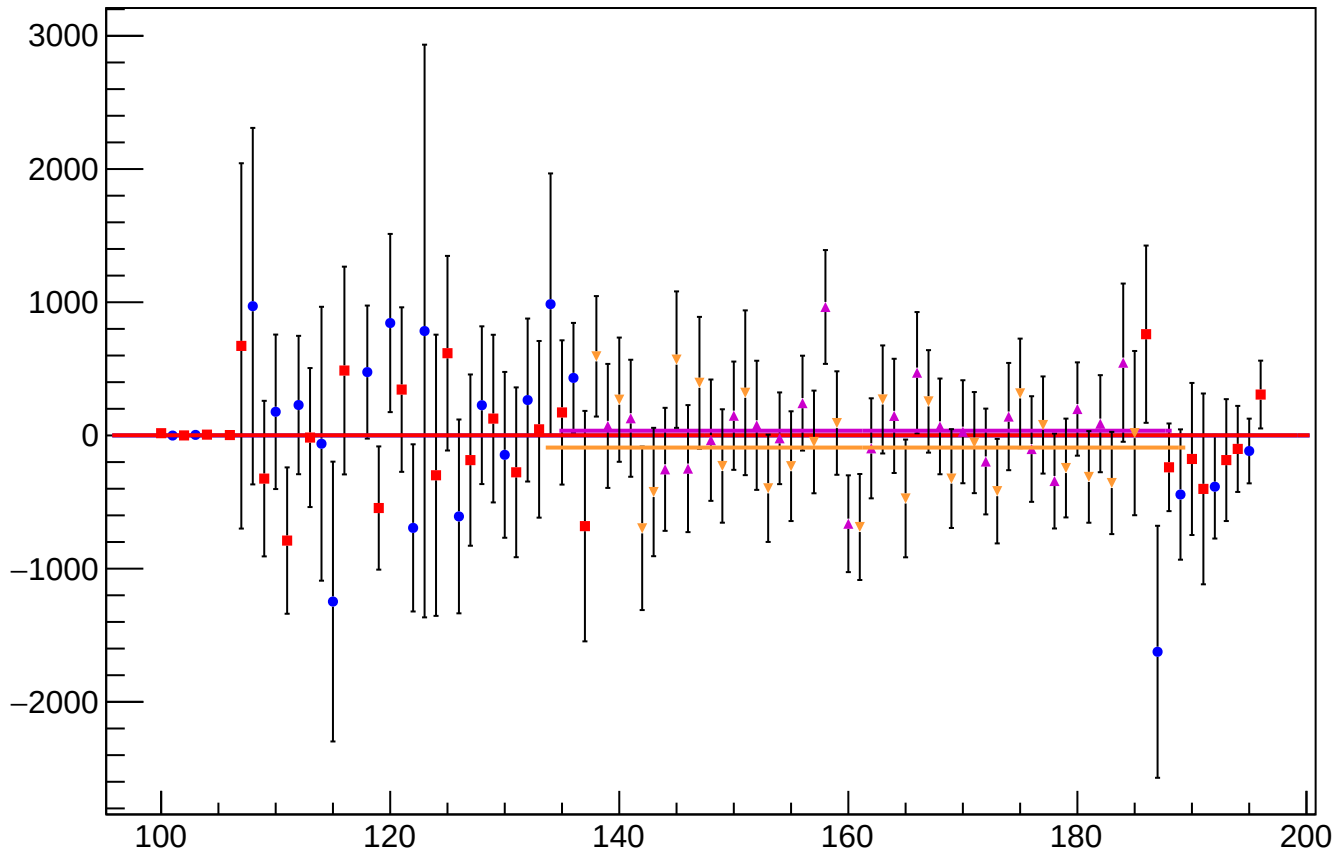
Right: 195.440+/-0.036 χ^2/NDF : 9531632.7/46

In: 194.810+/-0.029 χ^2/NDF :5485862.5/43

Out: 201.092+/-0.028 χ^2/NDF :7221430.9/50

All: 198.004+/-0.020 χ^2/NDF : 12731490.7/94

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.165 ± 1.737 $\chi^2/\text{NDF}: 15.1/20$

Left Out: -90.945 ± 84.079 $\chi^2/\text{NDF}: 16.4/24$

Right Out: 1.325 ± 1.622 $\chi^2/\text{NDF}: 13.2/25$

Left In: 35.488 ± 84.382 $\chi^2/\text{NDF}: 13.4/22$

Left: -27.956 ± 59.560 $\chi^2/\text{NDF}: 31.0/47$

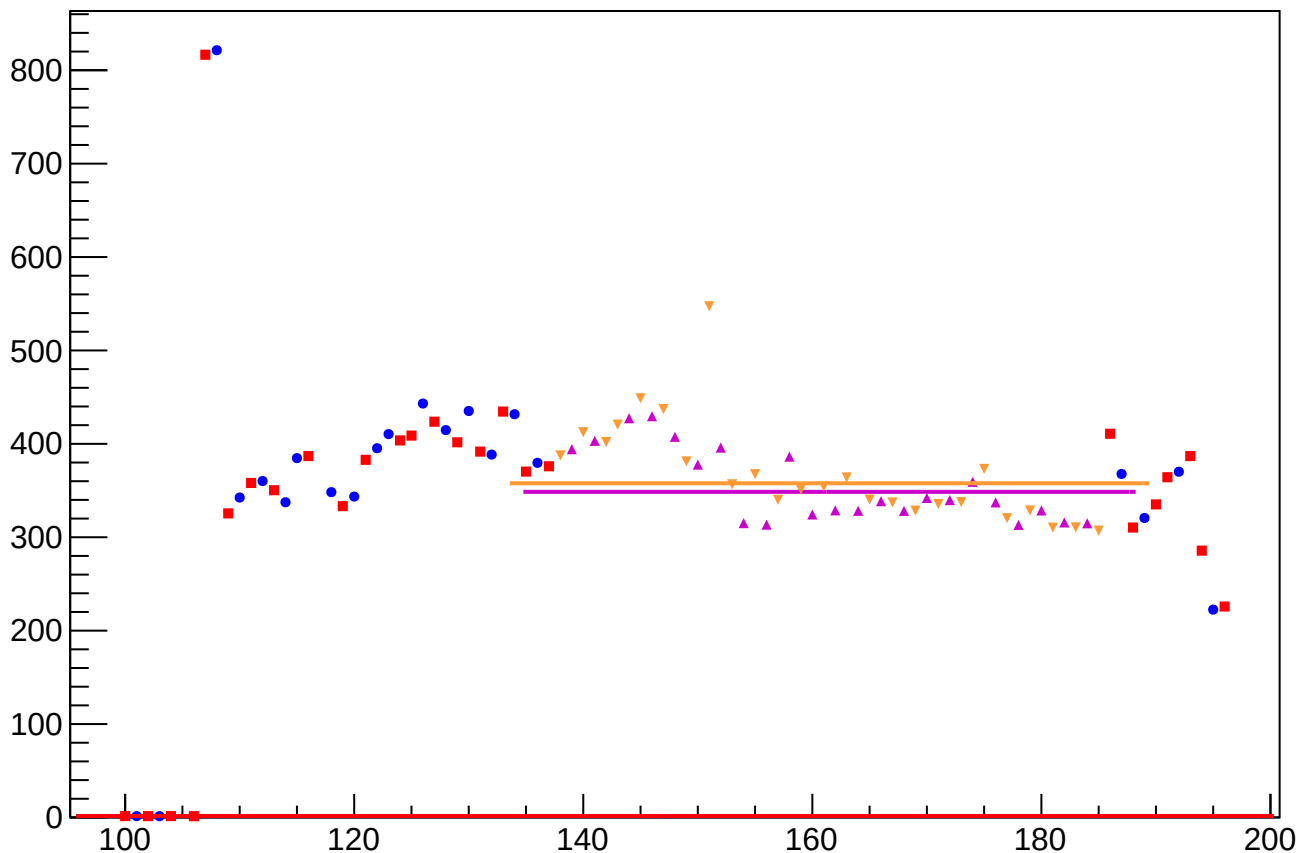
Right: 0.631 ± 1.186 $\chi^2/\text{NDF}: 28.7/46$

In: -0.150 ± 1.736 $\chi^2/\text{NDF}: 28.7/43$

Out: 1.291 ± 1.622 $\chi^2/\text{NDF}: 30.9/50$

All: 0.619 ± 1.185 $\chi^2/\text{NDF}: 59.9/94$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.476+/-0.001 χ^2/NDF : 15375428.5/20

Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24

Right Out: 1.487+/-0.001 χ^2/NDF : 19069902.6/25

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

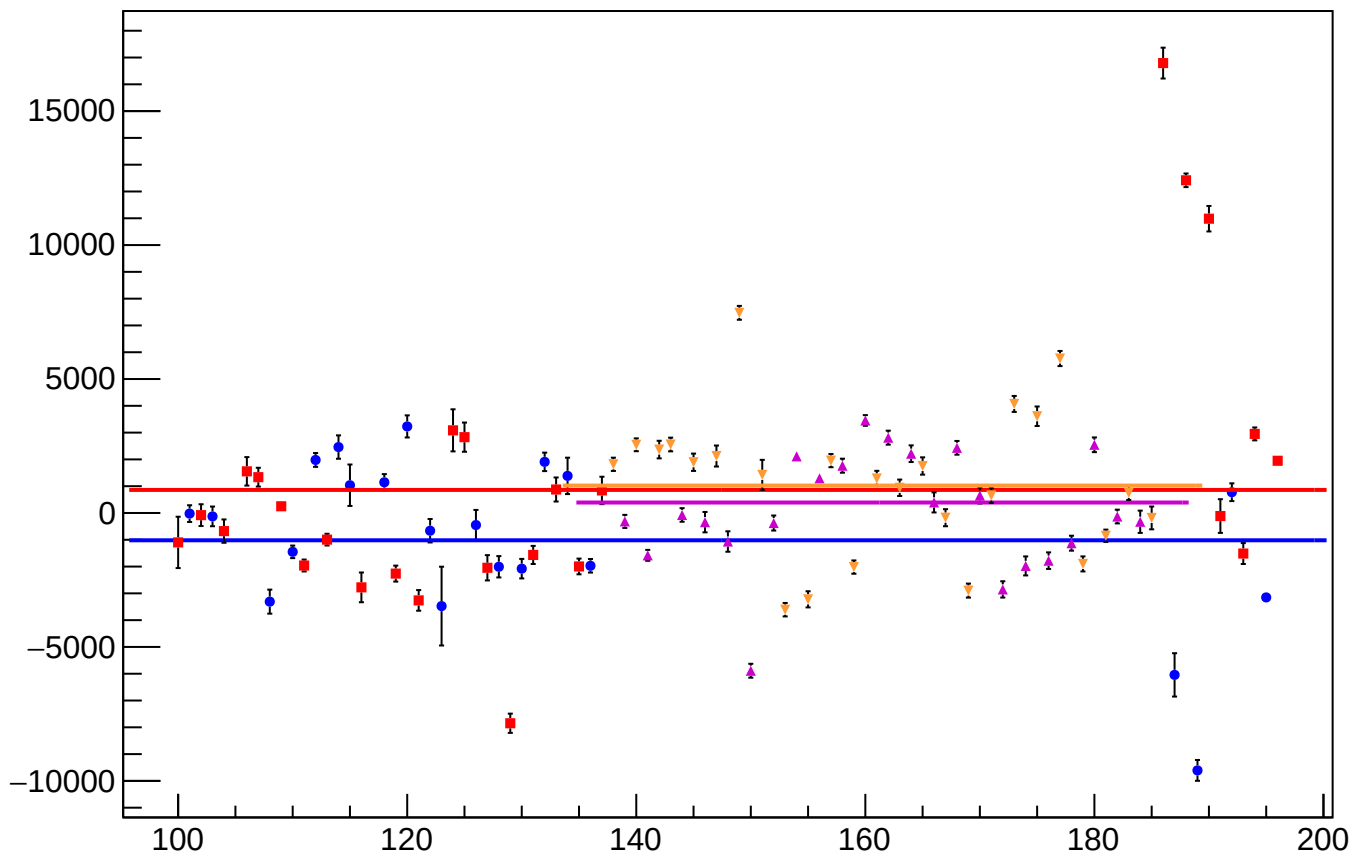
Right: 1.482+/-0.001 χ^2/NDF : 34445371.4/46

In: 1.623+/-0.001 χ^2/NDF : 49570899.6/43

Out: 1.619+/-0.001 χ^2/NDF : 55523381.4/50

All: 1.621+/-0.001 χ^2/NDF : 105094285.7/94

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -1019.169+/-75.145 χ^2/NDF : 1224.7/20

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 860.962+/-64.296 χ^2/NDF : 4768.4/25

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

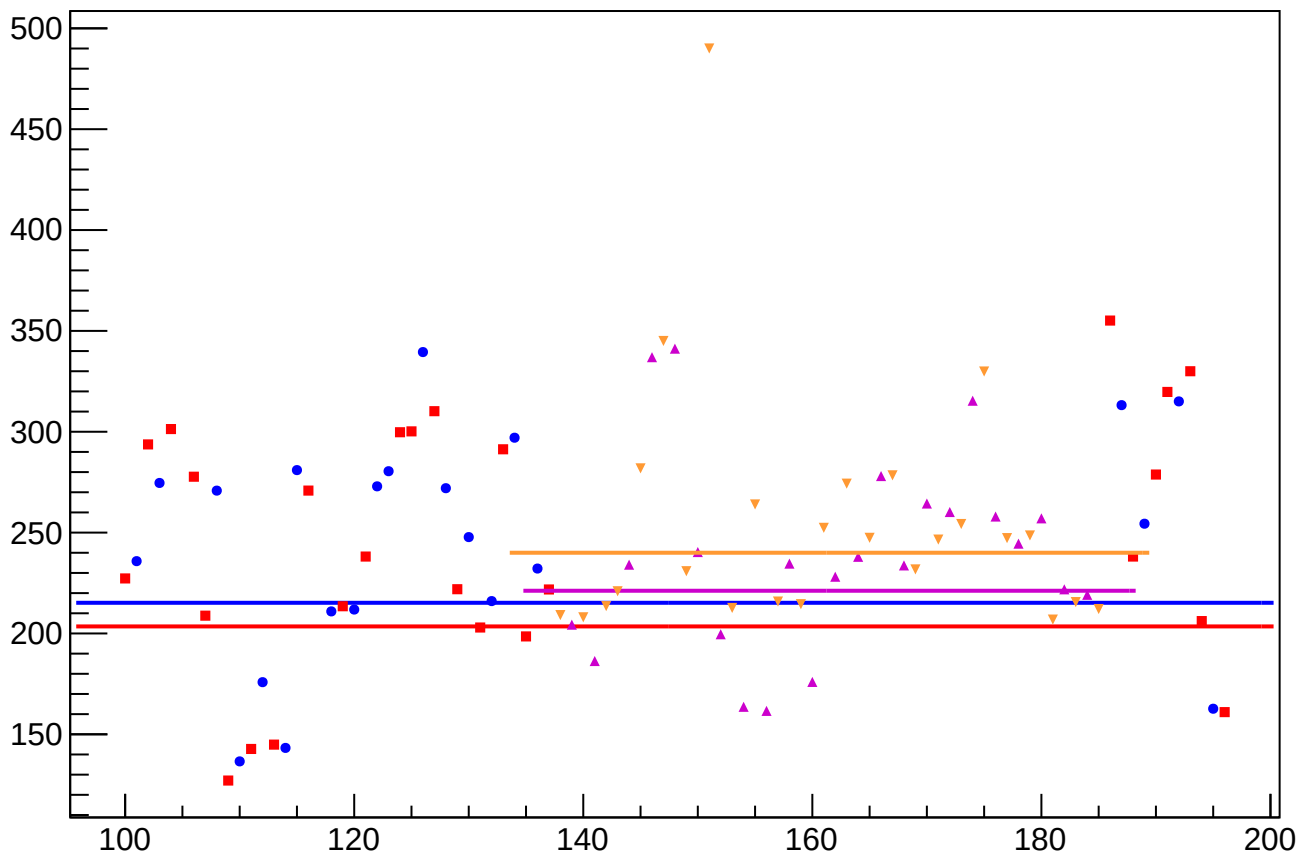
Right: 66.299+/-48.854 χ^2/NDF : 6354.5/46

In: -100.610+/-44.346 χ^2/NDF : 3038.9/43

Out: 951.465+/-42.793 χ^2/NDF : 7081.3/50

All: 444.167+/-30.794 χ^2/NDF : 10411.6/94

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 215.205 $\pm$ 0.053 χ^2 /NDF: 1069469.2/20

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 203.487 $\pm$ 0.045 χ^2 /NDF: 1821045.0/25

Left In: 221.173 $\pm$ 0.039 χ^2 /NDF:1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2 /NDF: 2457612.6/47

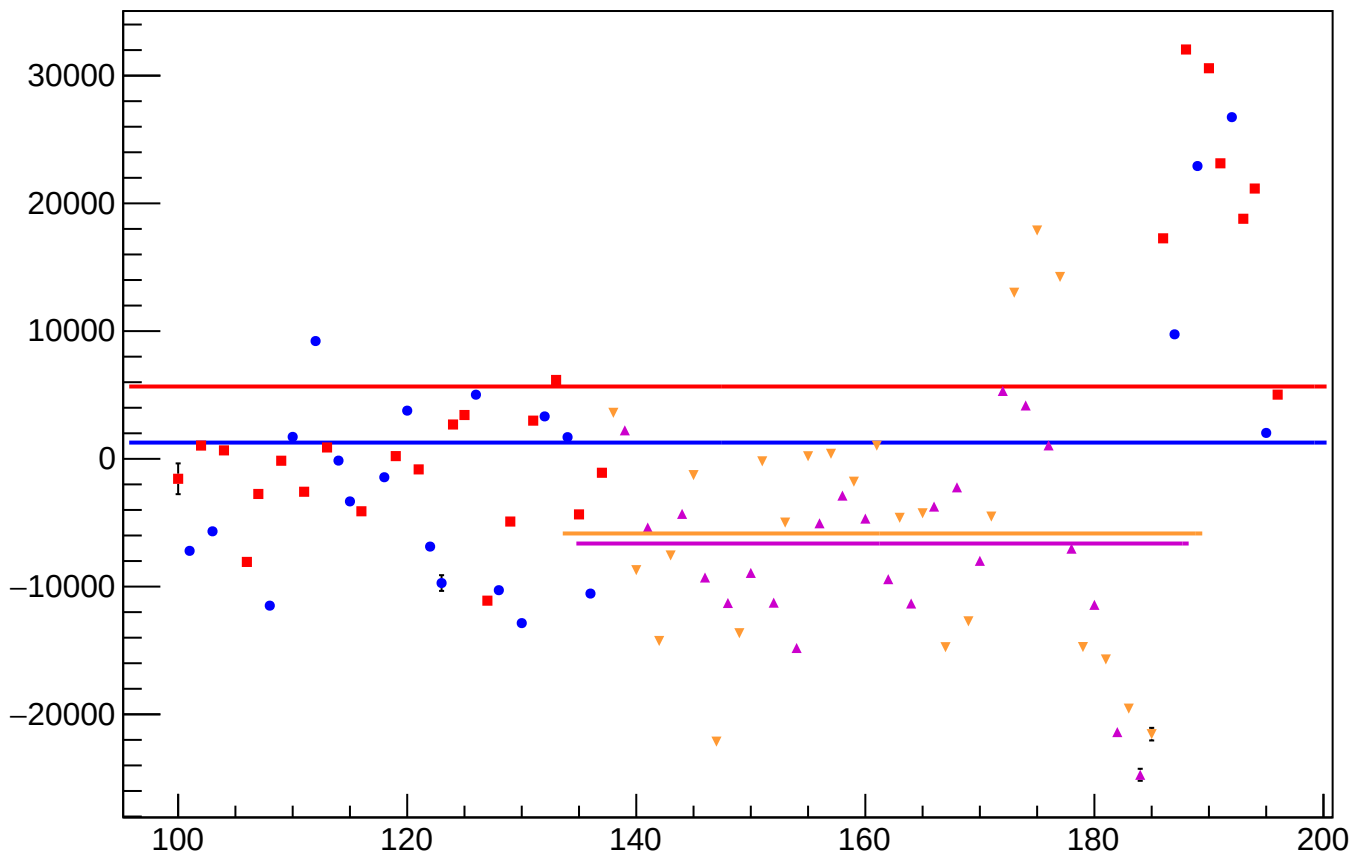
Right: 208.440 $\pm$ 0.035 χ^2 /NDF: 2918588.7/46

In: 219.094 $\pm$ 0.031 χ^2 /NDF:2420209.0/43

Out: 223.836 $\pm$ 0.030 χ^2 /NDF:3183118.0/50

All: 221.550 $\pm$ 0.022 χ^2 /NDF: 5615168.3/94

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1273.408 +/- 42.989 χ^2/NDF : 69891.8/20

Left Out: -5841.615 +/- 35.848 χ^2/NDF : 63397.3/24

Right Out: 5663.286 +/- 38.297 χ^2/NDF : 99806.6/25

Left In: -6628.388 +/- 37.160 χ^2/NDF : 21738.0/22

Left: -6220.862 +/- 25.800 χ^2/NDF : 85367.5/47

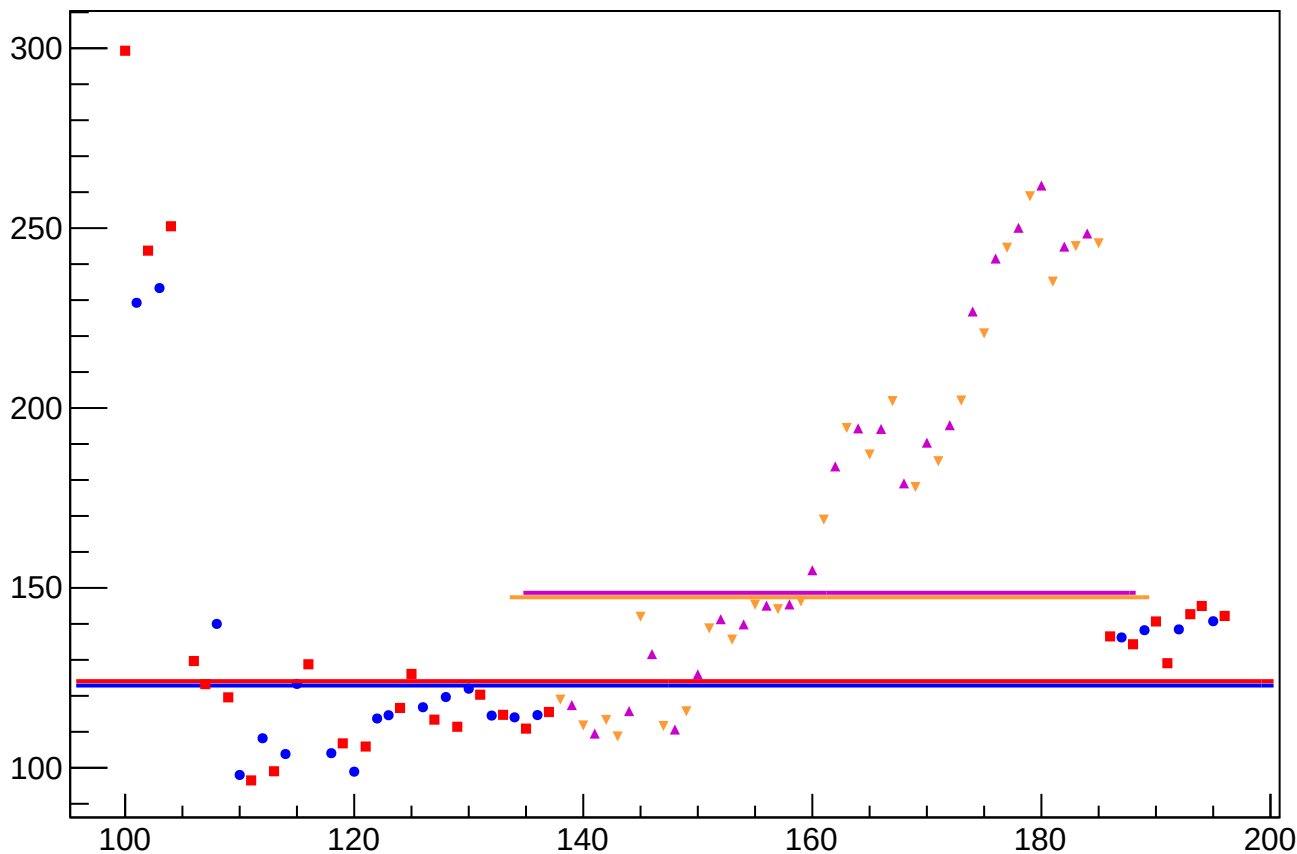
Right: 3720.894 +/- 28.596 χ^2/NDF : 175512.1/46

In: -3249.156 +/- 28.113 χ^2/NDF : 110966.9/43

Out: -468.867 +/- 26.171 χ^2/NDF : 211305.3/50

All: -1759.693 +/- 19.156 χ^2/NDF : 327511.8/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 122.869+/-0.030 χ^2/NDF : 718016.6/20

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 124.088+/-0.027 χ^2/NDF : 849446.3/25

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

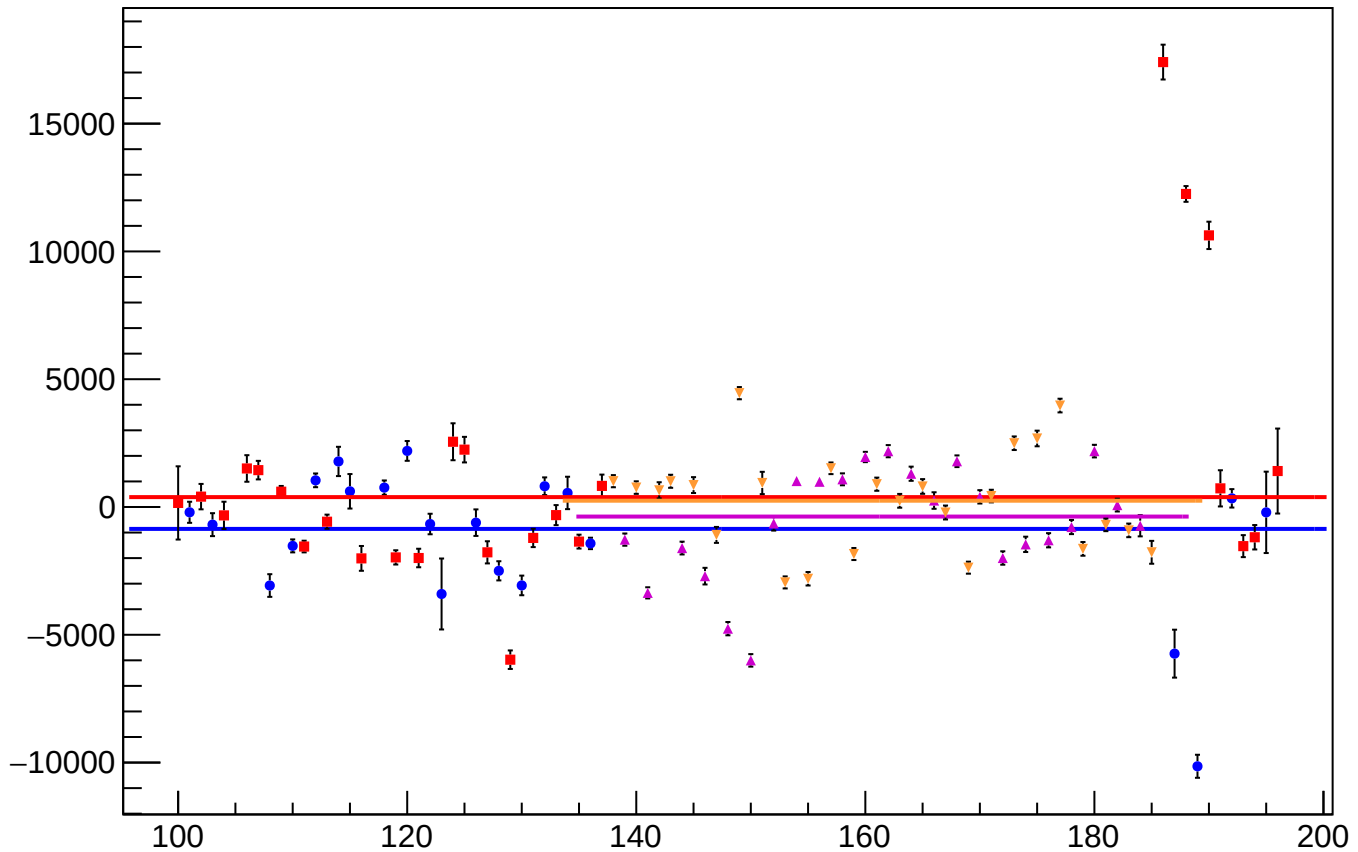
Right: 123.549+/-0.020 χ^2/NDF : 1568359.3/46

In: 137.620+/-0.020 χ^2/NDF : 3544977.7/43

Out: 136.511+/-0.019 χ^2/NDF : 3761398.1/50

All: 137.026+/-0.014 χ^2/NDF : 7308042.7/94

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -857.286 ± 84.737 $\chi^2/\text{NDF}: 759.5/20$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 386.606 ± 75.363 $\chi^2/\text{NDF}: 3160.5/25$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

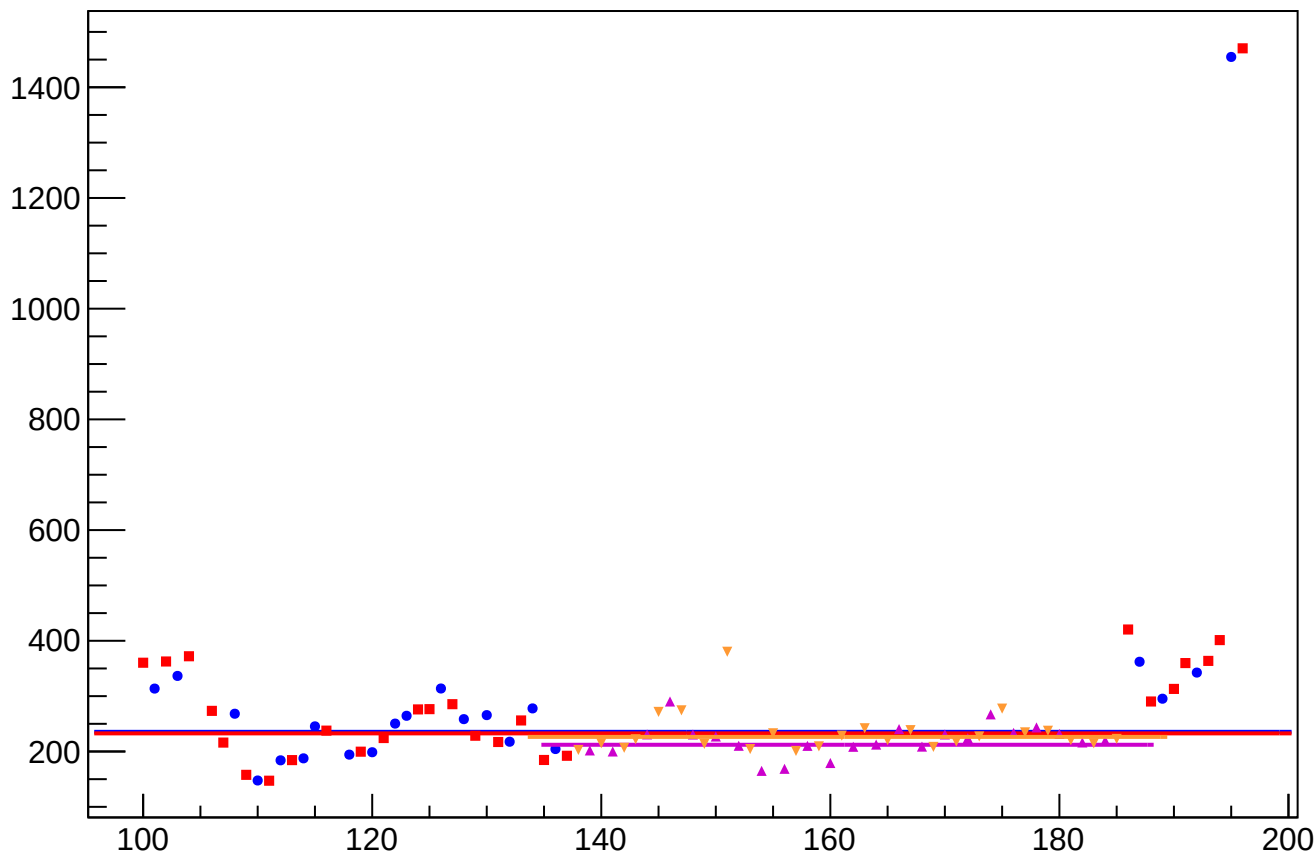
Right: -162.755 ± 56.313 $\chi^2/\text{NDF}: 4040.3/46$

In: -506.149 ± 44.254 $\chi^2/\text{NDF}: 2581.4/43$

Out: 293.185 ± 43.621 $\chi^2/\text{NDF}: 4517.6/50$

All: -100.724 ± 31.066 $\chi^2/\text{NDF}: 7264.5/94$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 235.522 $\pm$ 0.060 χ^2 /NDF: 2116005.3/20

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF:521770.1/24

Right Out: 232.710 $\pm$ 0.053 χ^2 /NDF: 2912878.7/25

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF:591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

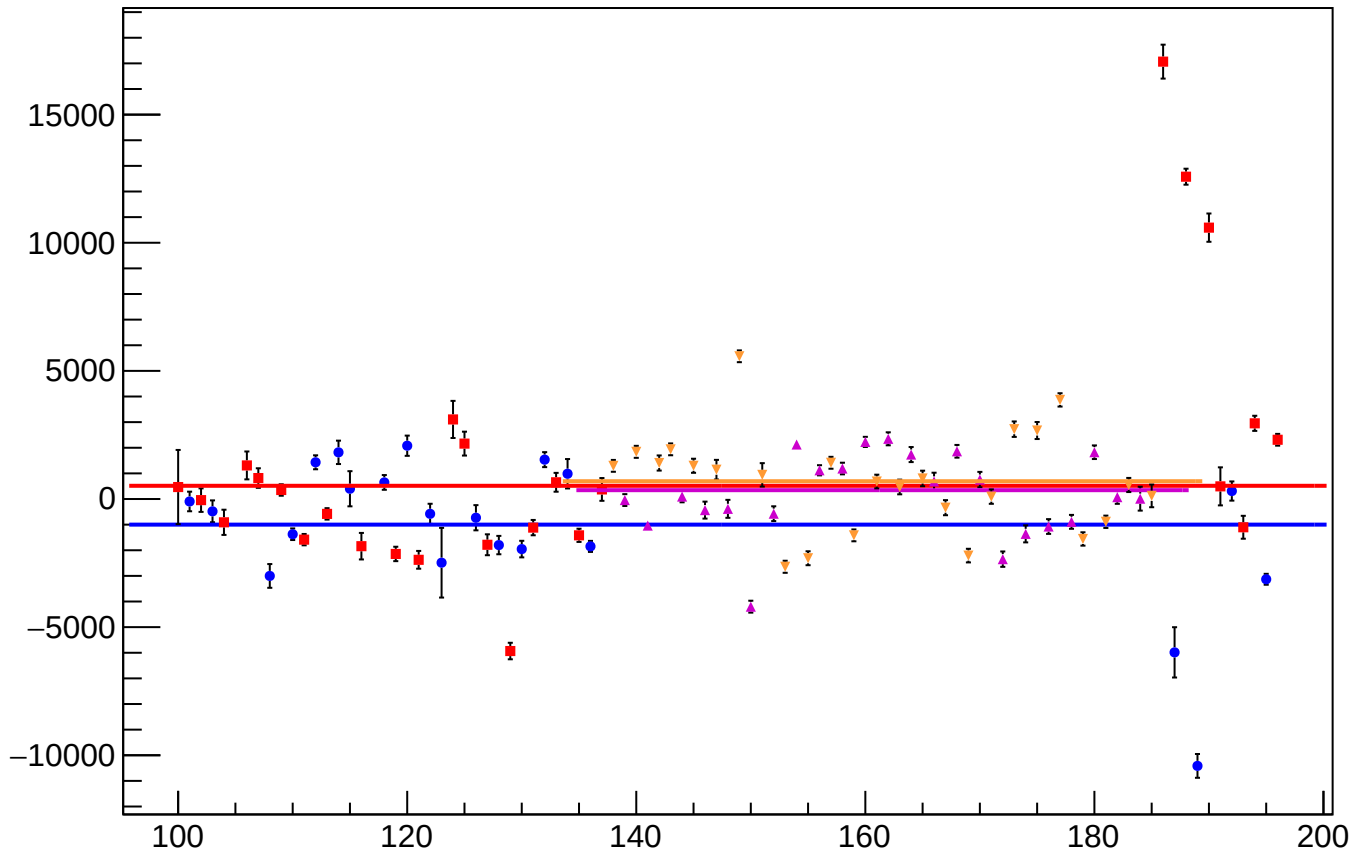
Right: 233.952 $\pm$ 0.040 χ^2 /NDF: 5030113.2/46

In: 218.521 $\pm$ 0.031 χ^2 /NDF:2818403.8/43

Out: 228.498 $\pm$ 0.031 χ^2 /NDF:3444045.8/50

All: 223.581 $\pm$ 0.022 χ^2 /NDF: 6314011.0/94

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -999.659+/-75.595 χ^2/NDF : 912.6/20

Left Out: 694.326+/-54.246 χ^2/NDF :1422.1/24

Right Out: 515.790+/-67.609 χ^2/NDF : 3449.1/25

Left In: 344.578+/-52.954 χ^2/NDF :985.0/22

Left: 515.236+/-37.893 χ^2/NDF : 2428.4/47

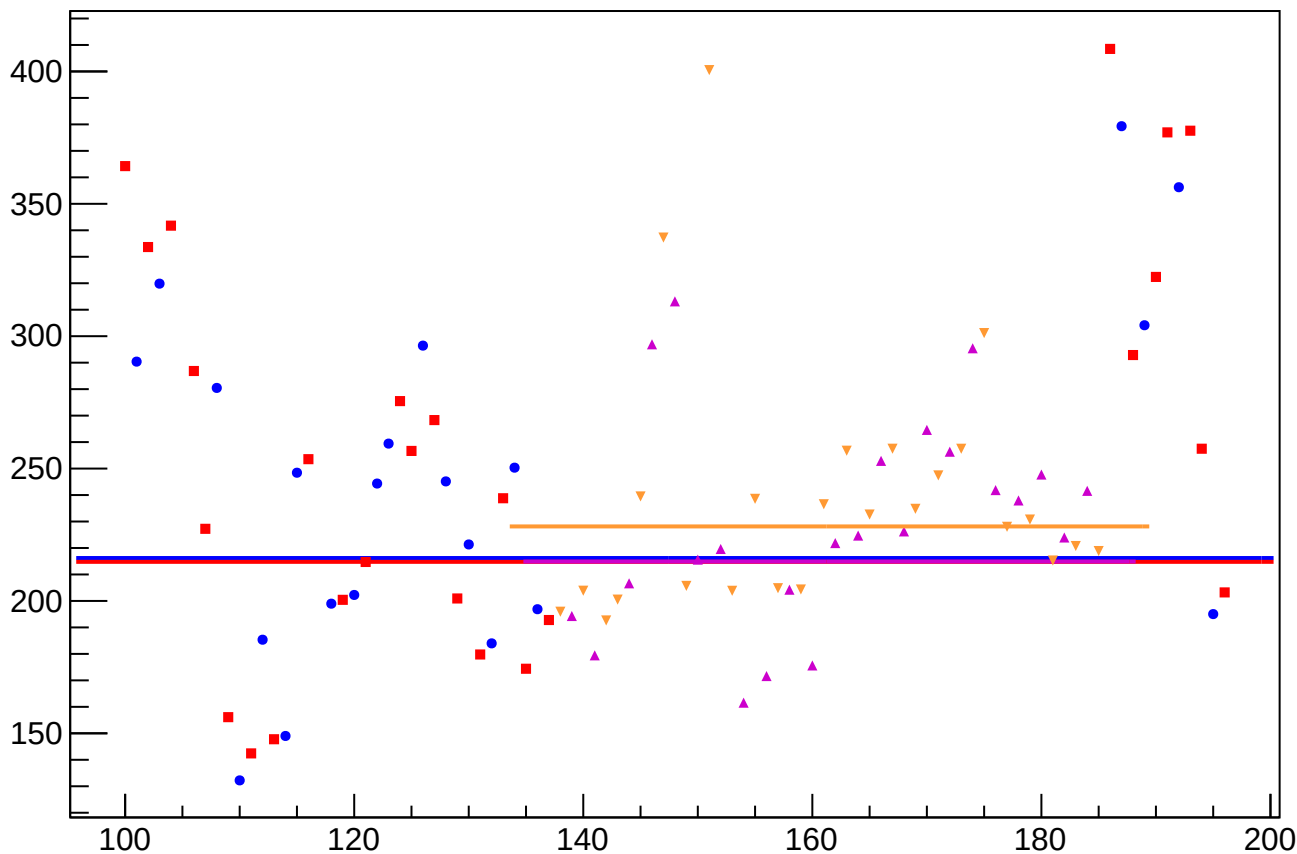
Right: -157.685+/-50.395 χ^2/NDF : 4585.0/46

In: -97.906+/-43.372 χ^2/NDF :2109.7/43

Out: 624.404+/-42.311 χ^2/NDF :4875.5/50

All: 272.190+/-30.286 χ^2/NDF : 7127.3/94

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.210 ± 0.053 $\chi^2/\text{NDF}: 1142405.5/20$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 214.772 ± 0.048 $\chi^2/\text{NDF}: 1813286.9/25$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

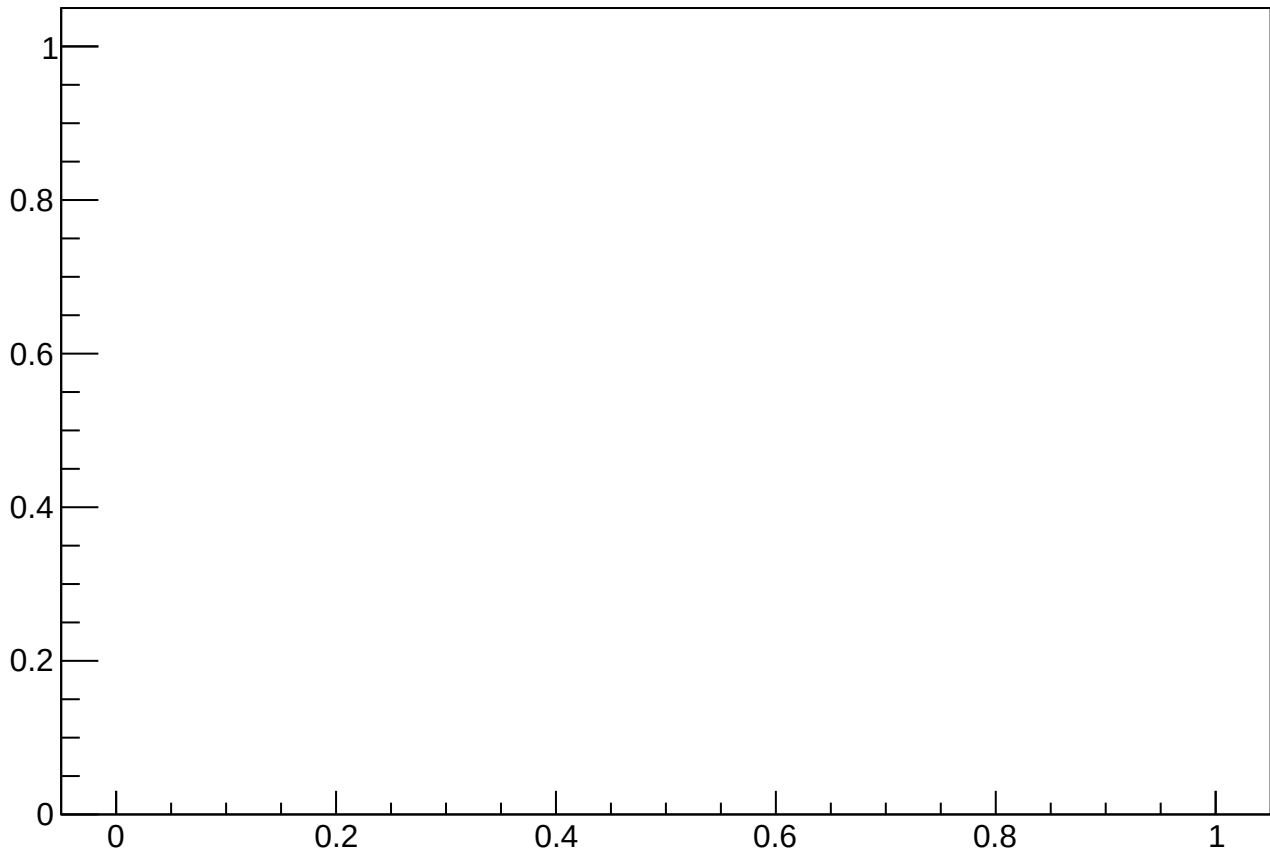
Right: 215.411 ± 0.036 $\chi^2/\text{NDF}: 2956094.7/46$

In: 215.317 ± 0.031 $\chi^2/\text{NDF}: 2180331.6/43$

Out: 222.907 ± 0.030 $\chi^2/\text{NDF}: 2689282.8/50$

All: 219.206 ± 0.021 $\chi^2/\text{NDF}: 4900997.8/94$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

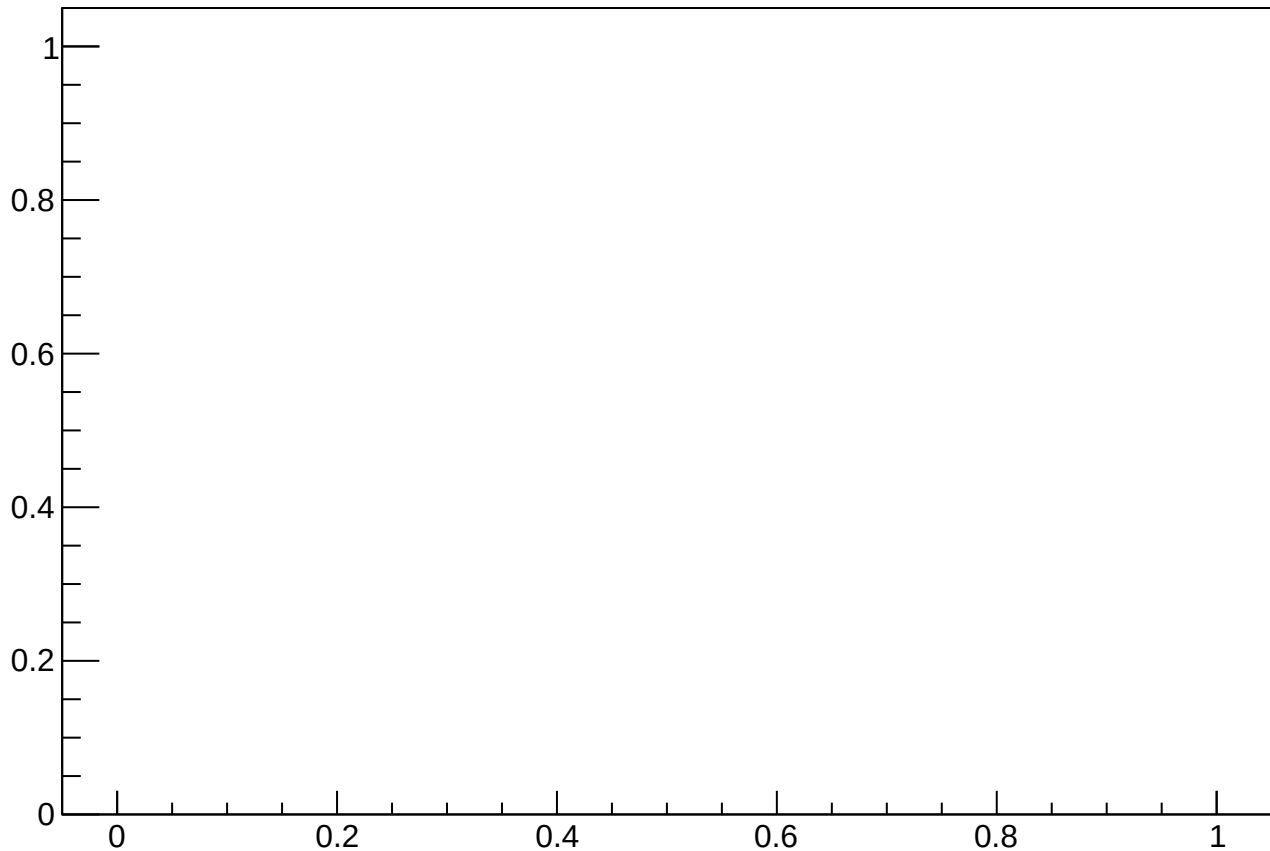
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

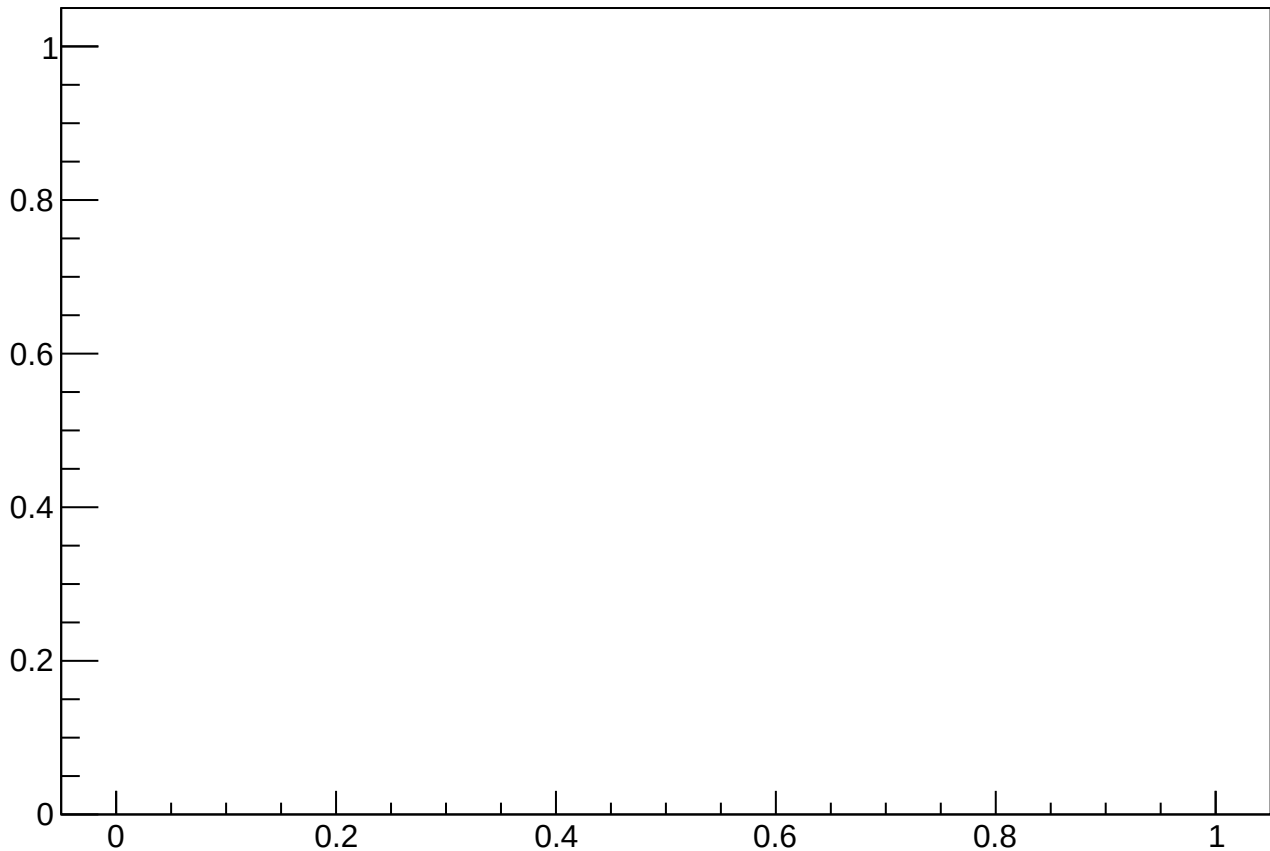
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

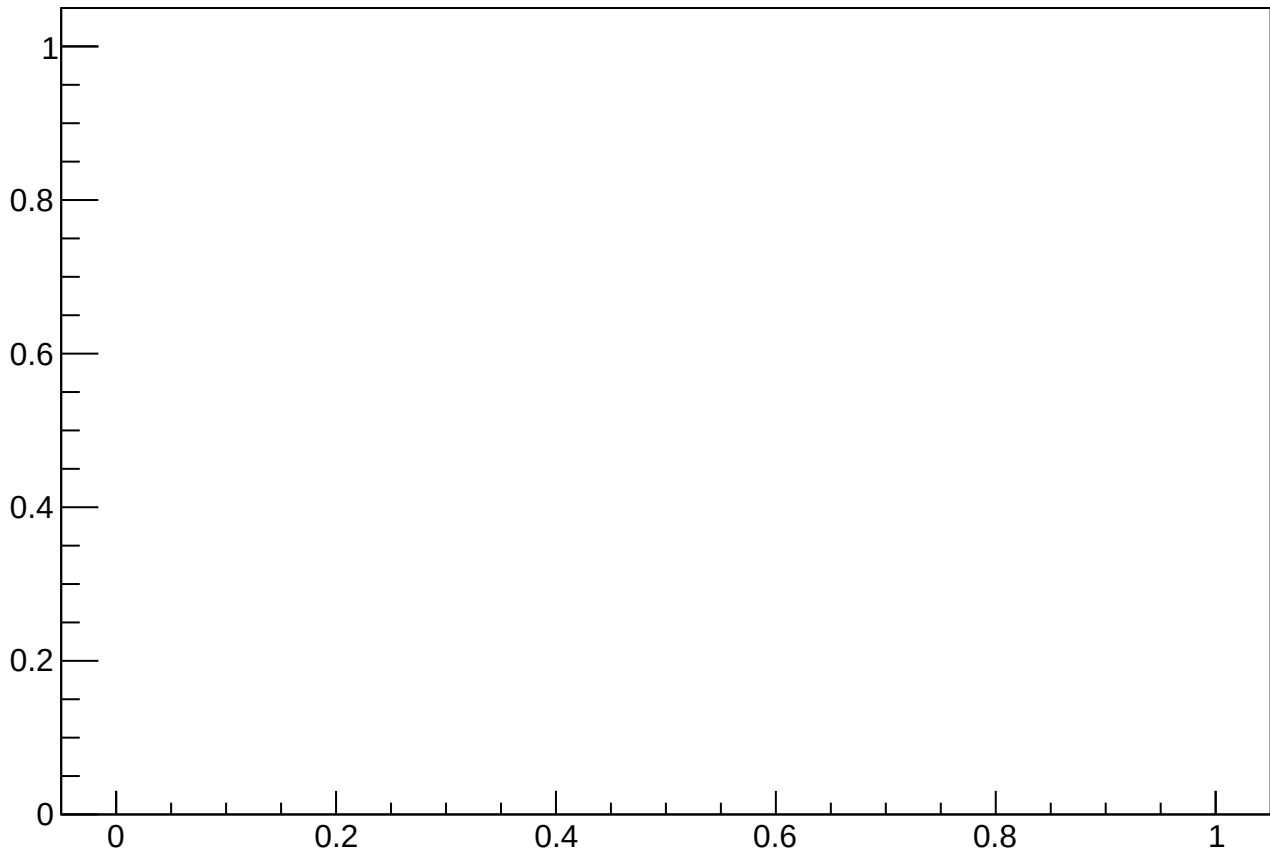
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

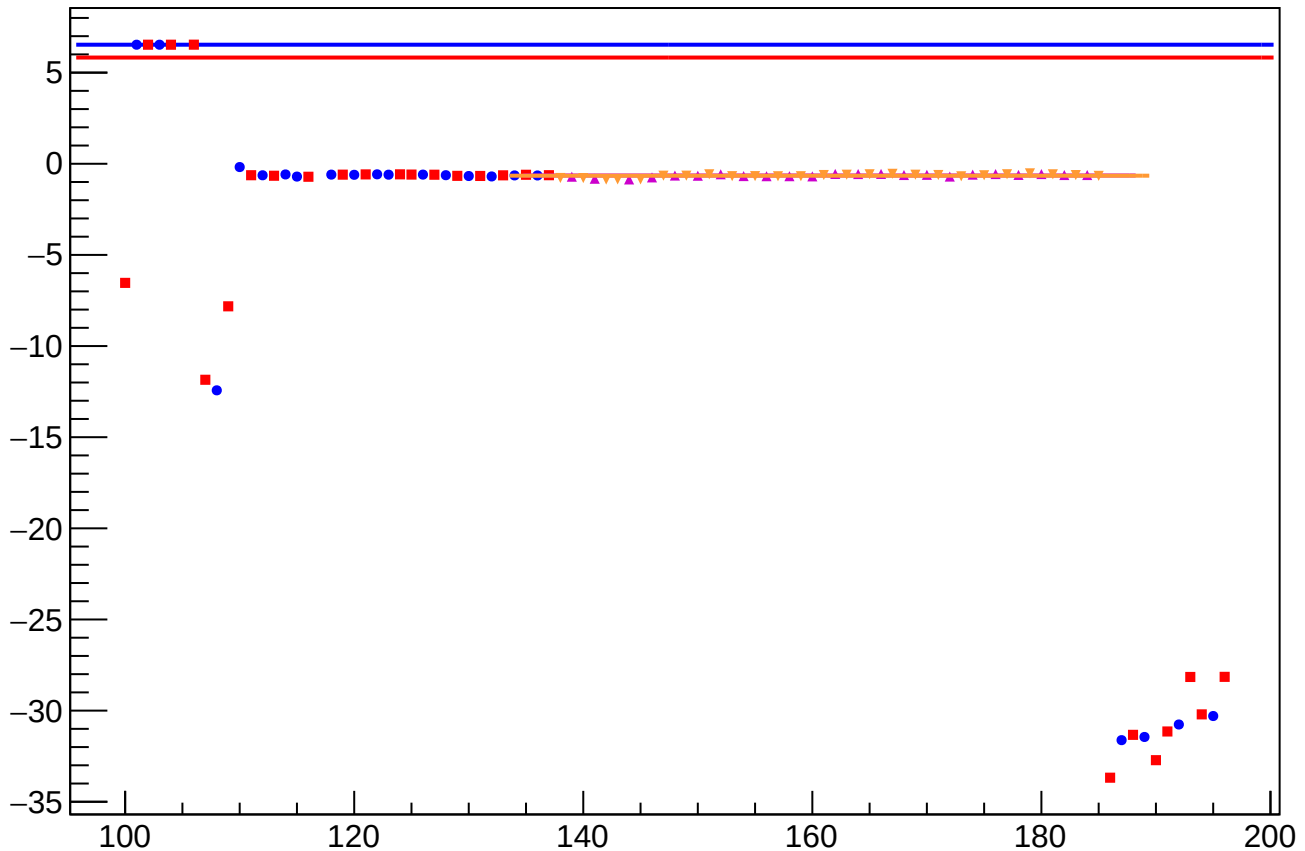
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127765854675.7/20

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962209881674.5/25

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

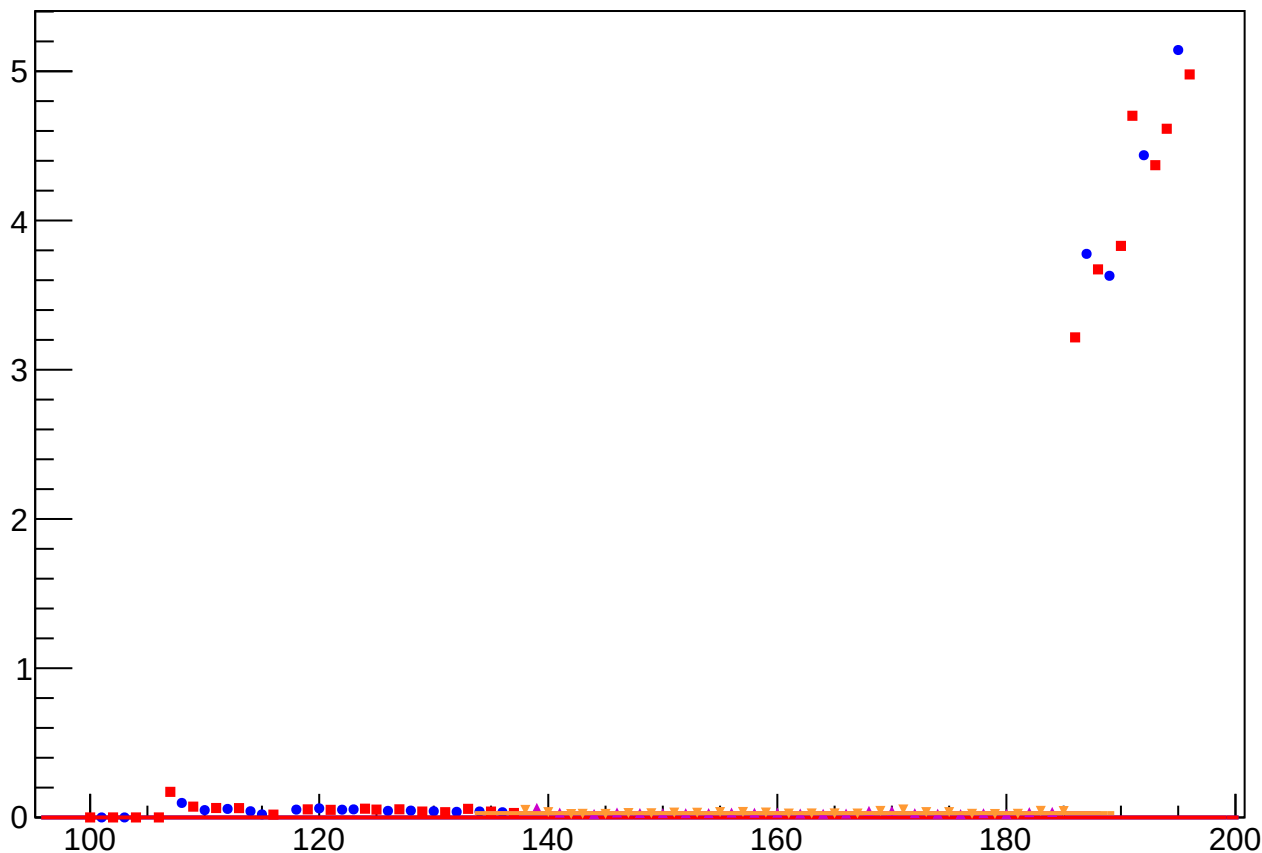
Right: 6.155+/-0.000 χ^2/NDF : 776093940990504.6/47

In: 6.530+/-0.000 χ^2/NDF : 961884452439.2/43

Out: 5.826+/-0.000 χ^2/NDF : 756673226777994.9/43

All: 6.153+/-0.000 χ^2/NDF : 77762737288790.0/90

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13358718.2/20

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 17504045.1/25

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

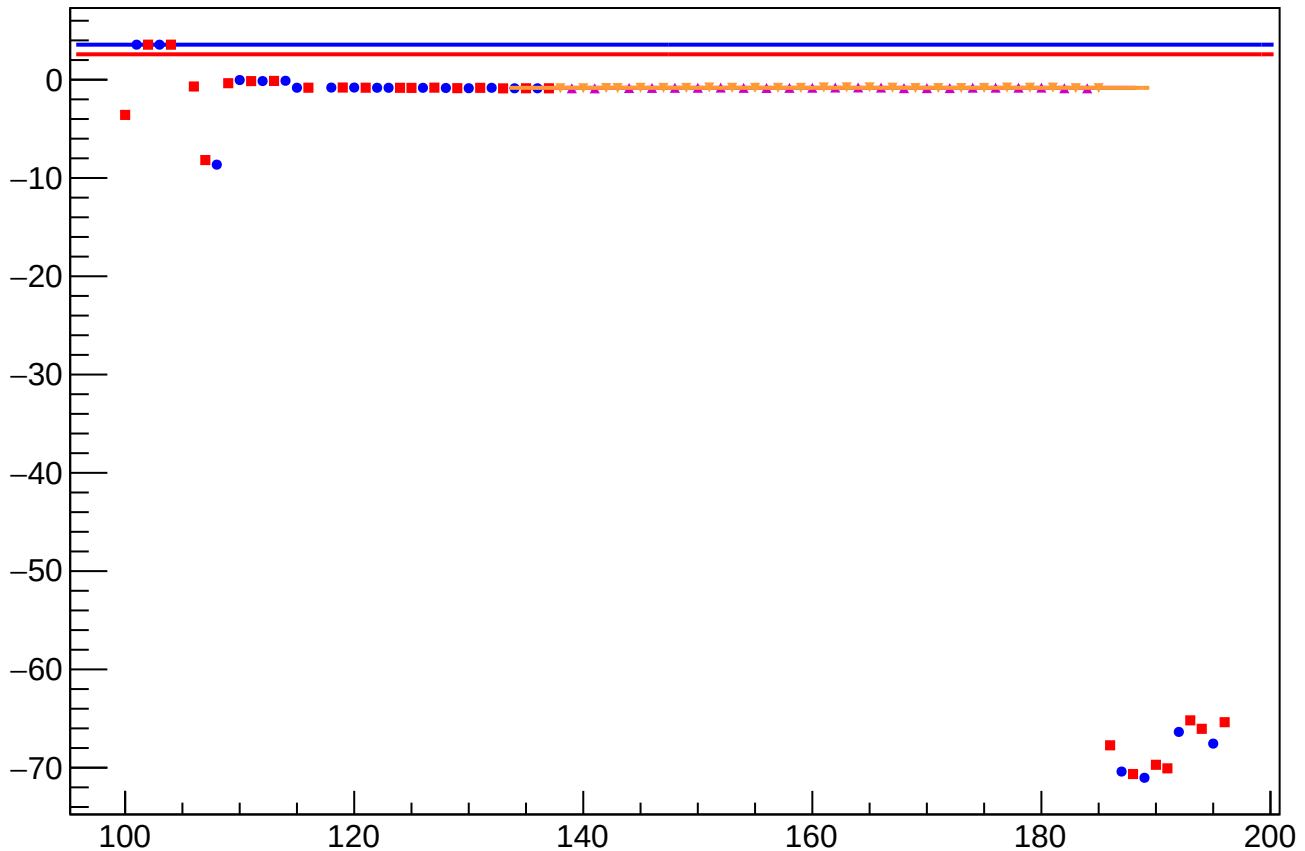
Right: 0.000+/-0.000 χ^2/NDF : 30863010.2/46

In: 0.000+/-0.000 χ^2/NDF :41536531.0/43

Out: 0.000+/-0.000 χ^2/NDF :47472088.6/50

All: 0.000+/-0.000 χ^2/NDF : 89009044.4/94

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 487671359834.1/20

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253516857880364.0/25

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

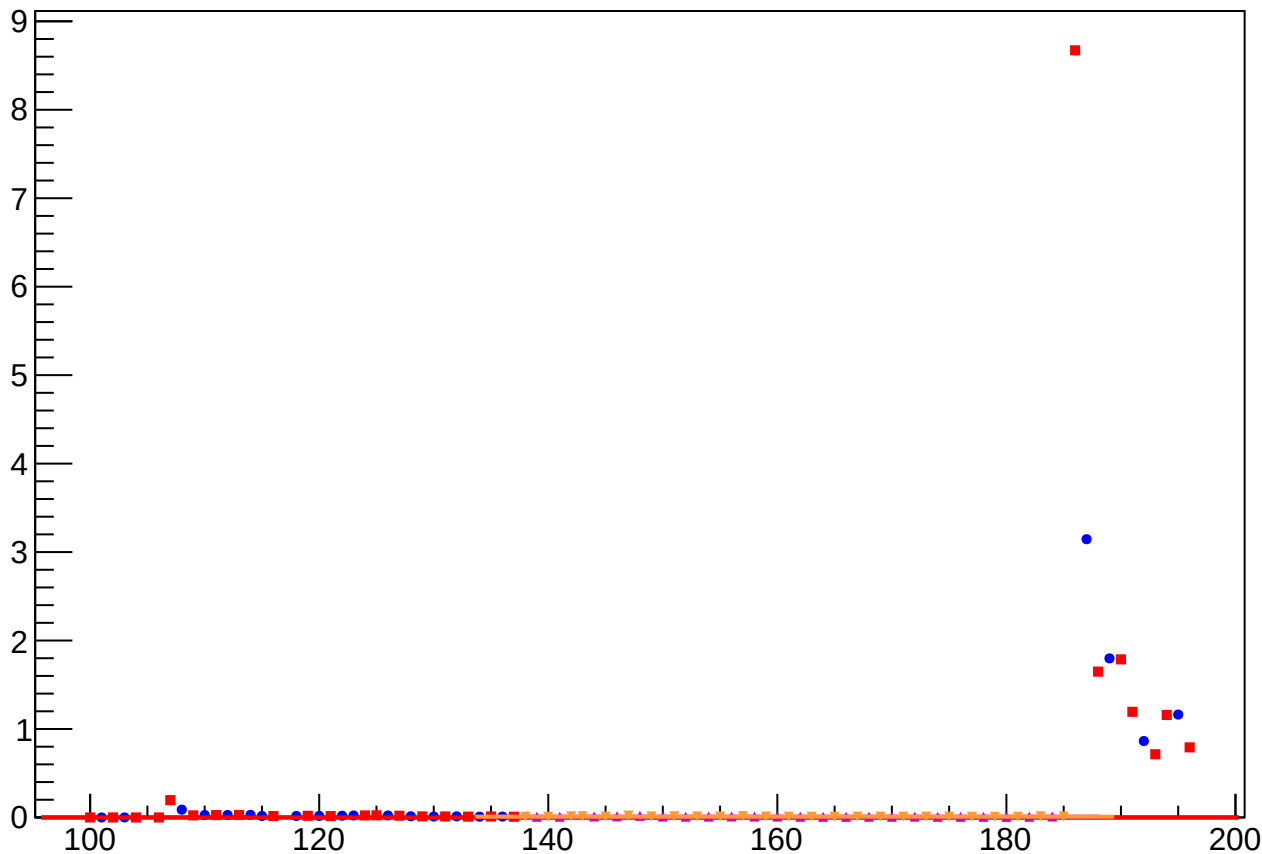
Right: 3.040+/-0.000 χ^2/NDF : 1382275727800188.0

In: 3.560+/-0.000 χ^2/NDF : 4168232980664.9/43

Out: 2.581+/-0.000 χ^2/NDF : 1255747759060319.2

All: 3.038+/-0.000 χ^2/NDF : 13880002897373

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13386255.7/20

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16990618.9/25

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

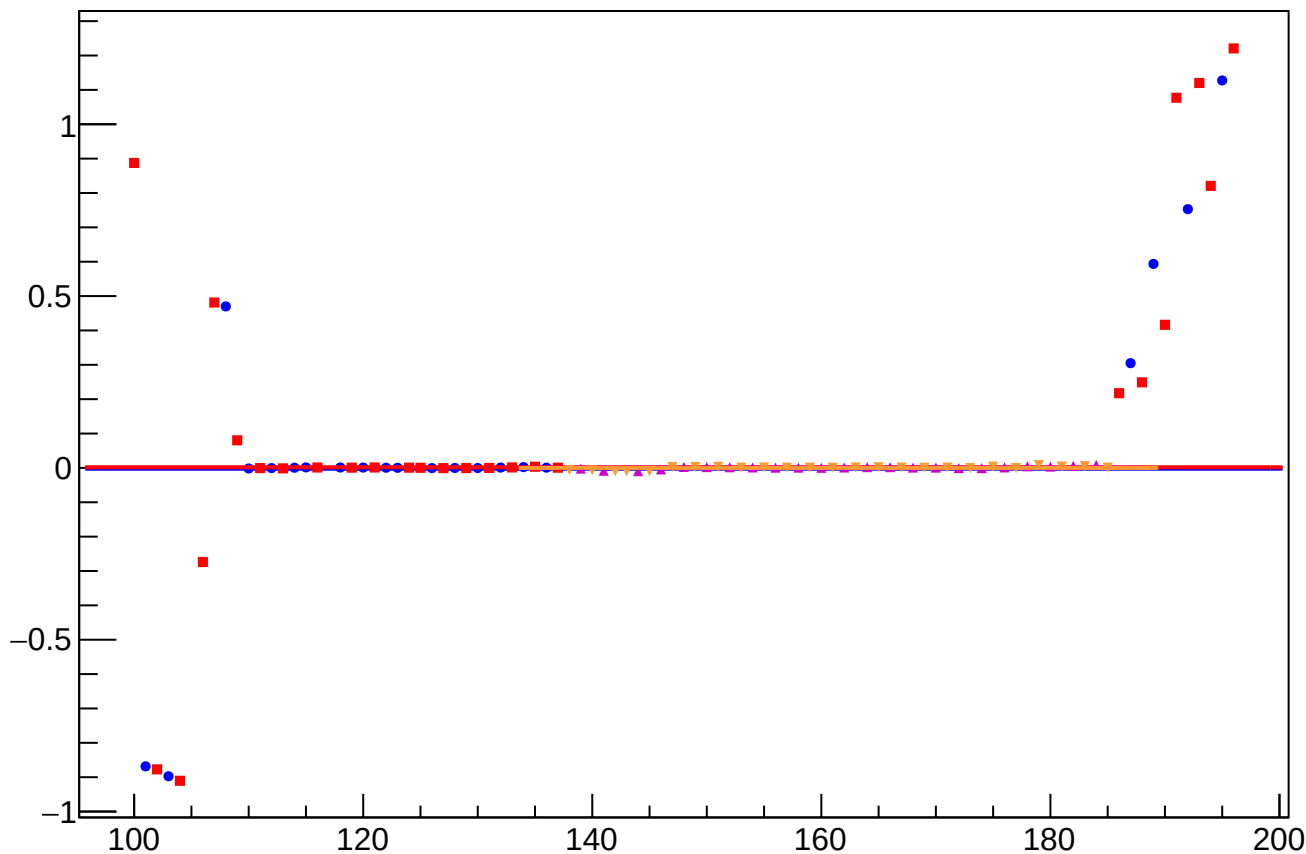
Right: 0.000+/-0.000 χ^2/NDF : 30377146.4/46

In: 0.000+/-0.000 χ^2/NDF :43183455.2/43

Out: 0.000+/-0.000 χ^2/NDF :48508788.3/50

All: 0.000+/-0.000 χ^2/NDF : 91693018.4/94

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000 $\chi^2/\text{NDF}: 9795450917.5/20$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 151559332.0/24$

Right Out: 0.002 ± 0.000 $\chi^2/\text{NDF}: 3042317036.4/25$

Left In: 0.001 ± 0.000 $\chi^2/\text{NDF}: 101468517.6/22$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 254489625.0/47$

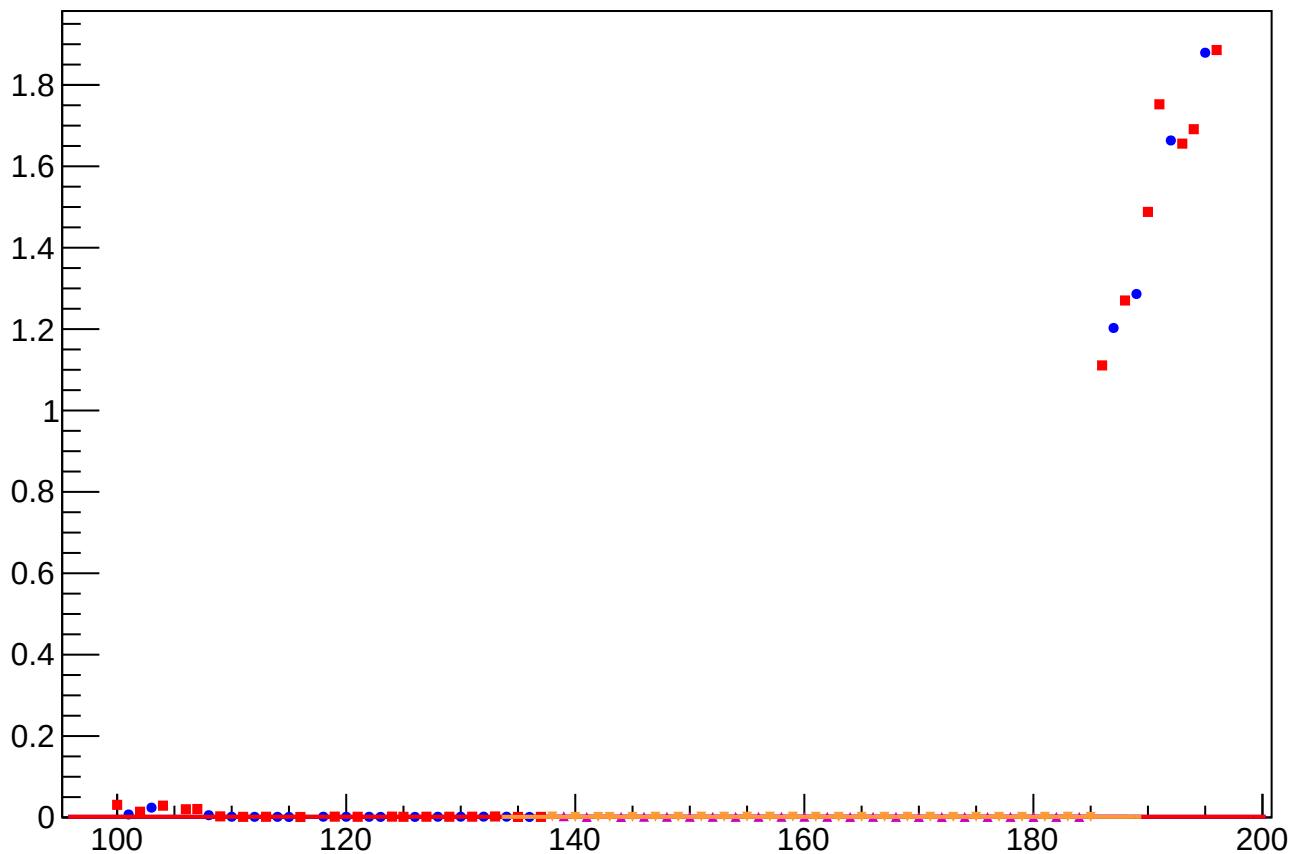
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 12851915417.2/46$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 9908364220.8/43$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3198550934.2/50$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13107286700.4/99$

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 6393782.2/20

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:539040.4/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 11179322.2/25

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:659543.3/22

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1201689.9/47

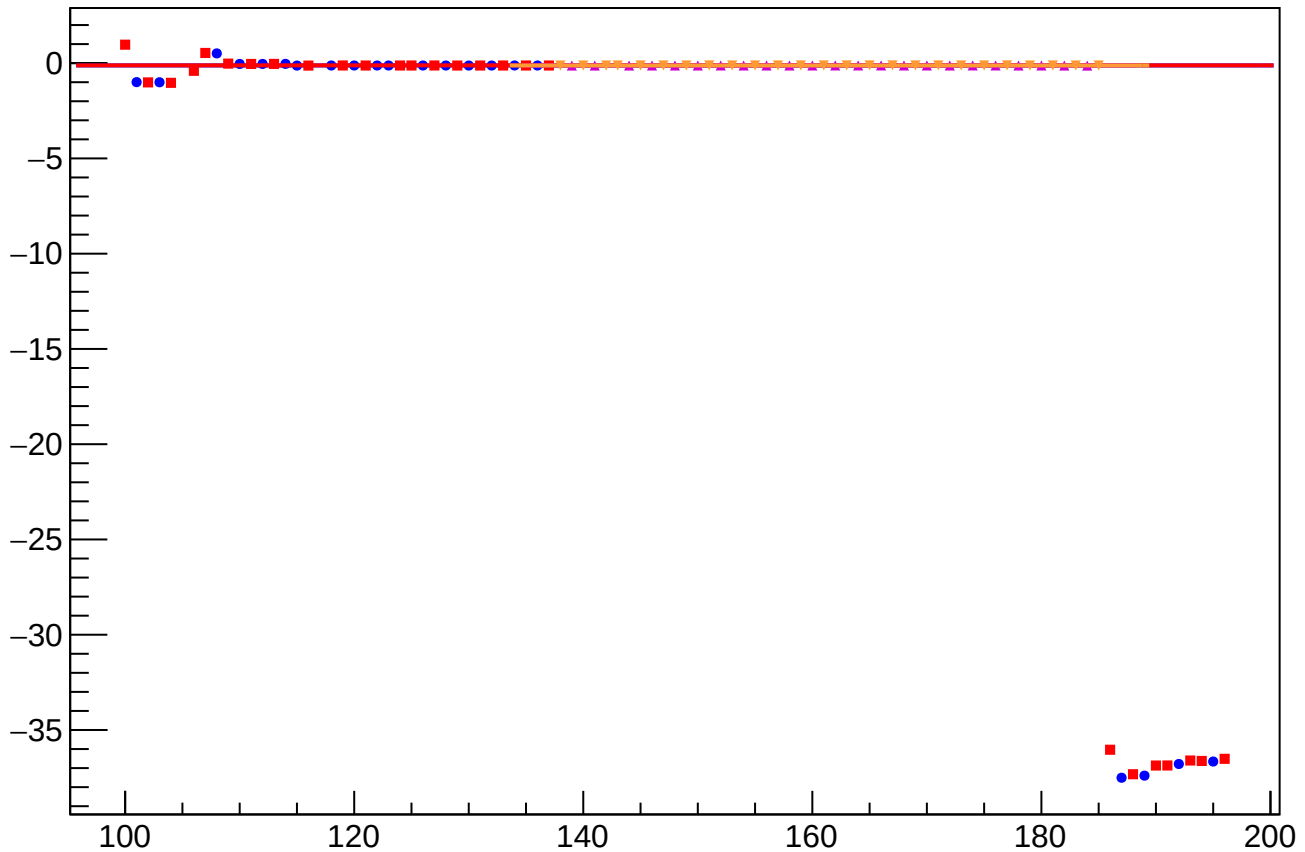
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 17581139.8/46

In: 0.002 $\pm$ 0.000 χ^2 /NDF:7104928.0/43

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:11853306.9/50

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 18958851.4/94

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 21466143129.8/20

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 36885431058.2/25

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

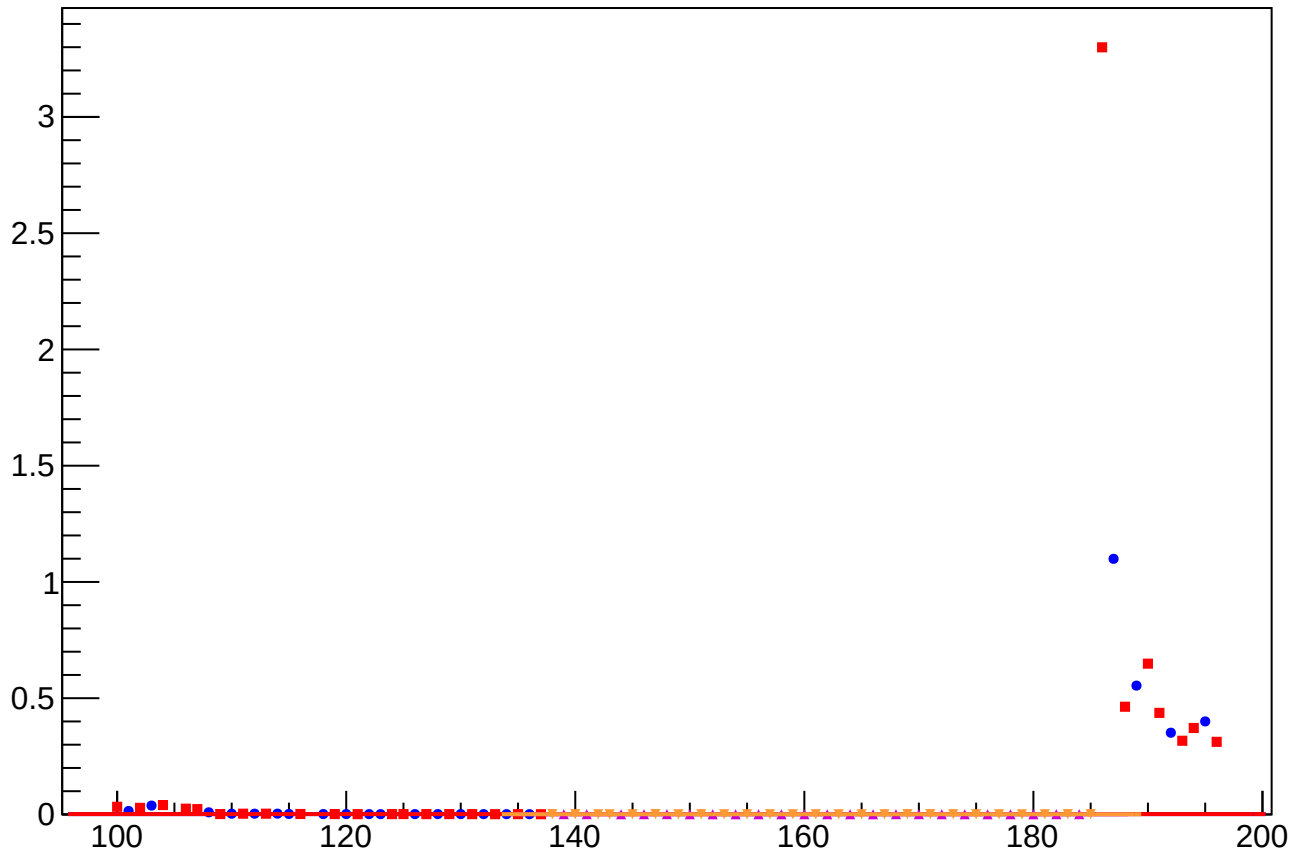
Right: -0.118+/-0.000 χ^2/NDF : 58372175643.4/46

In: -0.121+/-0.000 χ^2/NDF : 21519482251.8/43

Out: -0.121+/-0.000 χ^2/NDF : 36989844112.2/50

All: -0.121+/-0.000 χ^2/NDF : 58510153464.8/97

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7165800.1/20

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 11336174.9/25

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

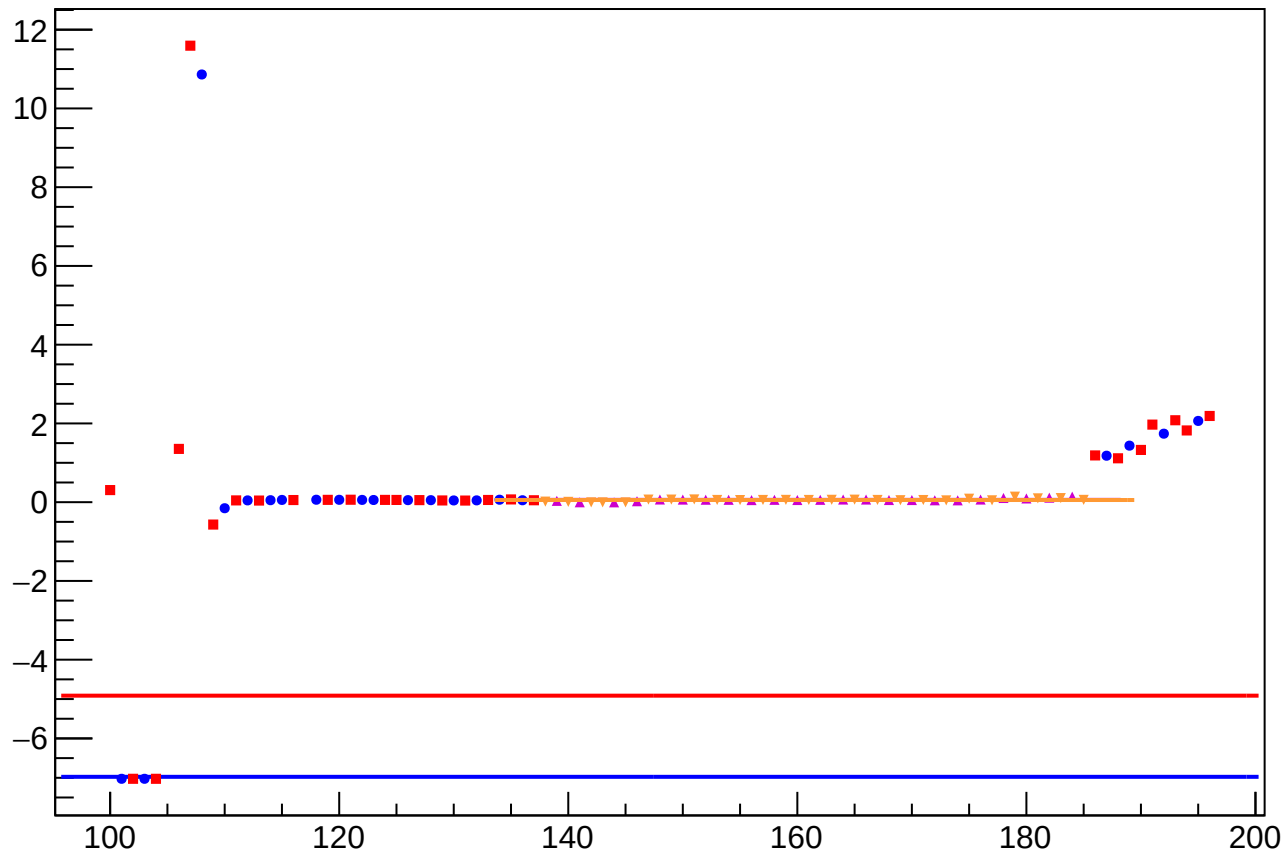
Right: 0.002+/-0.000 χ^2/NDF : 18501992.4/46

In: 0.001+/-0.000 χ^2/NDF :9266644.7/43

Out: 0.001+/-0.000 χ^2/NDF :13859979.3/50

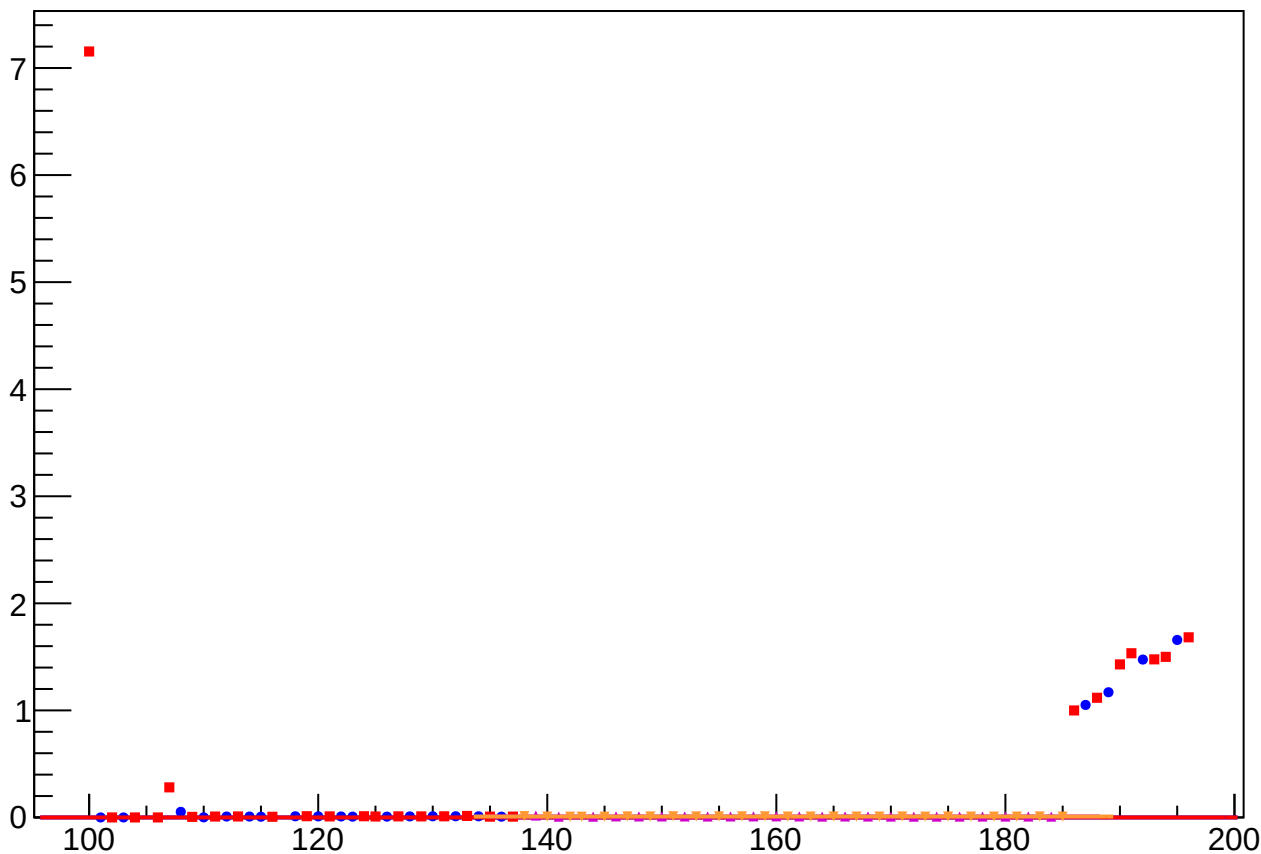
All: 0.001+/-0.000 χ^2/NDF : 23128682.6/94

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762533629153.1/20$ 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 $\chi^2/\text{NDF}: 430303382344408.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348629261044.4/25$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605061595052.4/43$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175316422122.3/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435813477864$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12710391.3/20

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 16929305.9/25

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

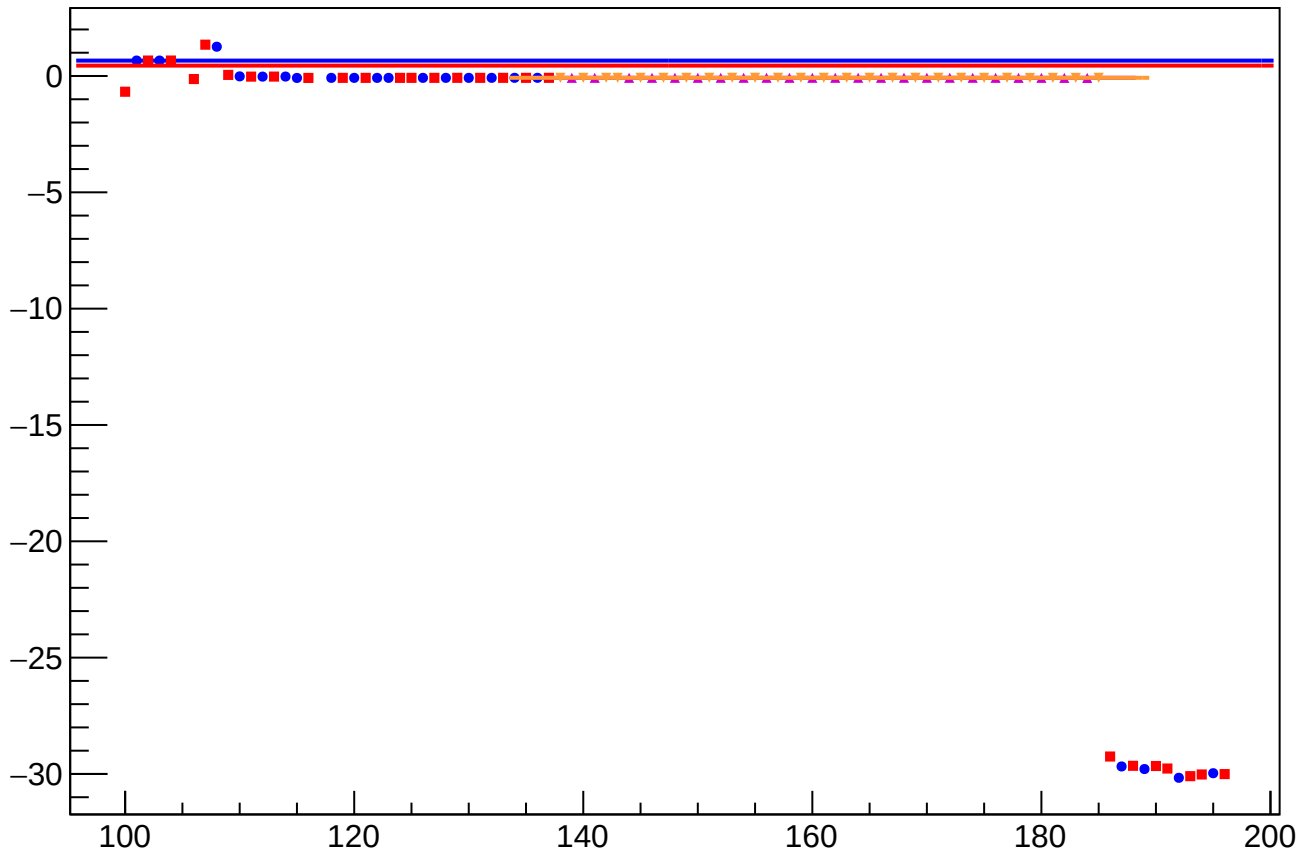
Right: 0.000+/-0.000 χ^2/NDF : 29639997.1/46

In: 0.000+/-0.000 χ^2/NDF : 40347639.0/43

Out: 0.000+/-0.000 χ^2/NDF : 45957694.6/50

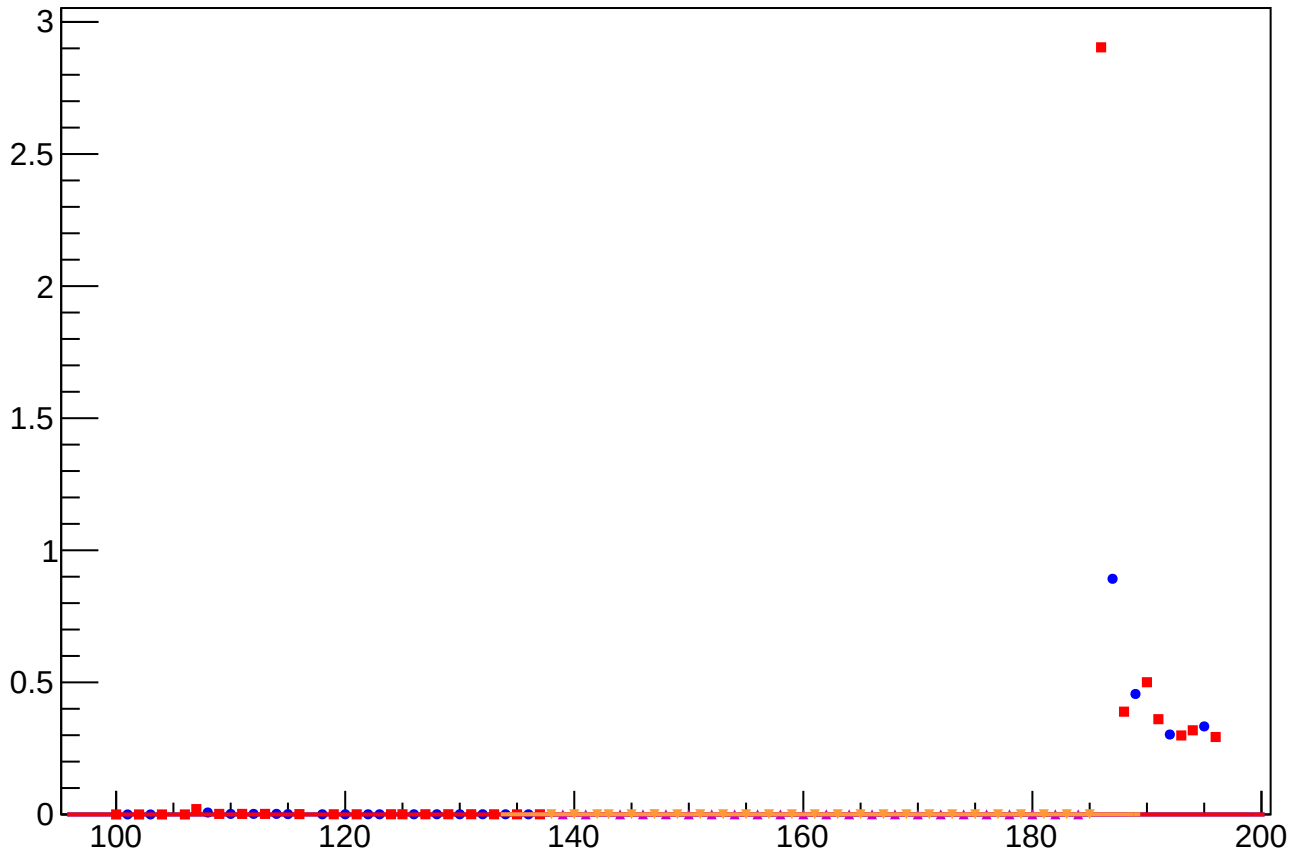
All: 0.000+/-0.000 χ^2/NDF : 86305815.2/94

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5603039668920.5/20	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 : 473979642263011.4
Right Out: 0.446+/-0.000	χ^2/NDF : 405447314917613.9/25	In: 0.647+/-0.000	χ^2/NDF : 33863014103189.1/43
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420641901559159.1/5
		All: 0.537+/-0.000	χ^2/NDF : 51602966218417

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14287075.9/20

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 17459778.3/25

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

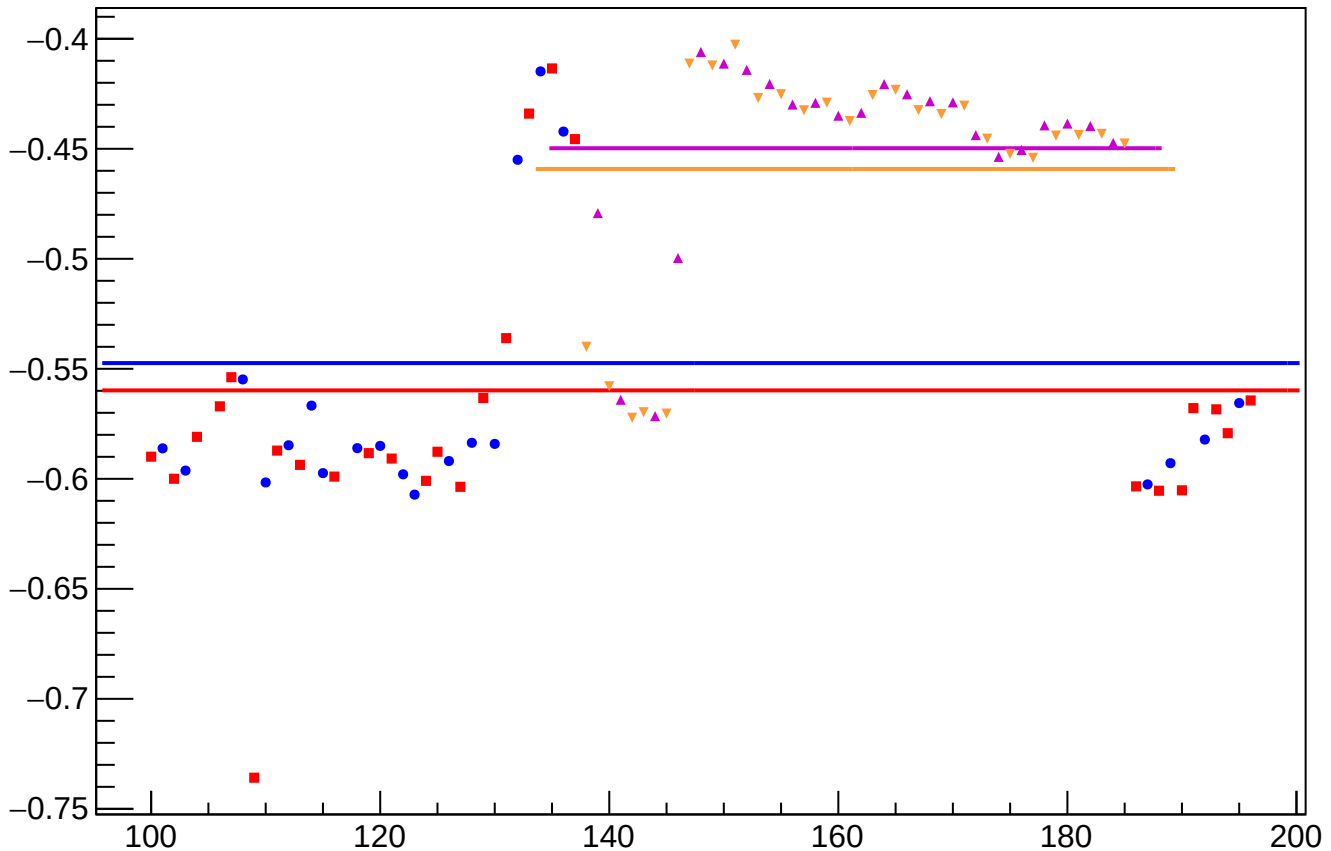
Right: 0.000+/-0.000 χ^2/NDF : 31746860.2/46

In: 0.000+/-0.000 χ^2/NDF : 45265845.0/43

Out: 0.000+/-0.000 χ^2/NDF : 50173917.7/50

All: 0.000+/-0.000 χ^2/NDF : 95440159.1/94

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 $\pm$ 0.000 χ^2 /NDF: 47219789.2/20

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113808762.6/24

Right Out: -0.560 $\pm$ 0.000 χ^2 /NDF: 65245004.8/25

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

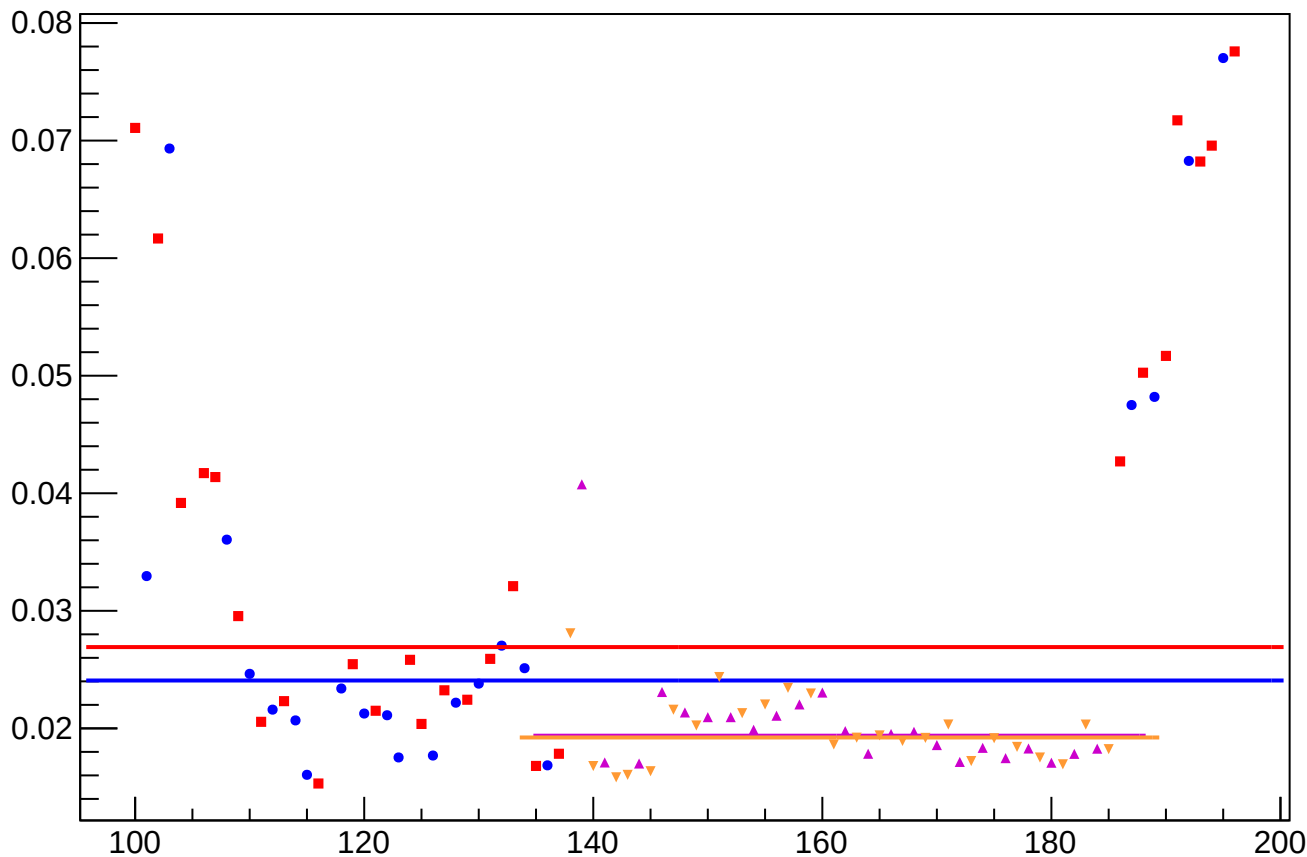
Right: -0.554 $\pm$ 0.000 χ^2 /NDF: 113308701.5/46

In: -0.472 $\pm$ 0.000 χ^2 /NDF: 204084378.9/43

Out: -0.481 $\pm$ 0.000 χ^2 /NDF: 266356036.5/50

All: -0.476 $\pm$ 0.000 χ^2 /NDF: 472411950.9/94

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 2819486.5/20

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501253.7/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 4019166.3/25

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:656155.9/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1158298.6/47

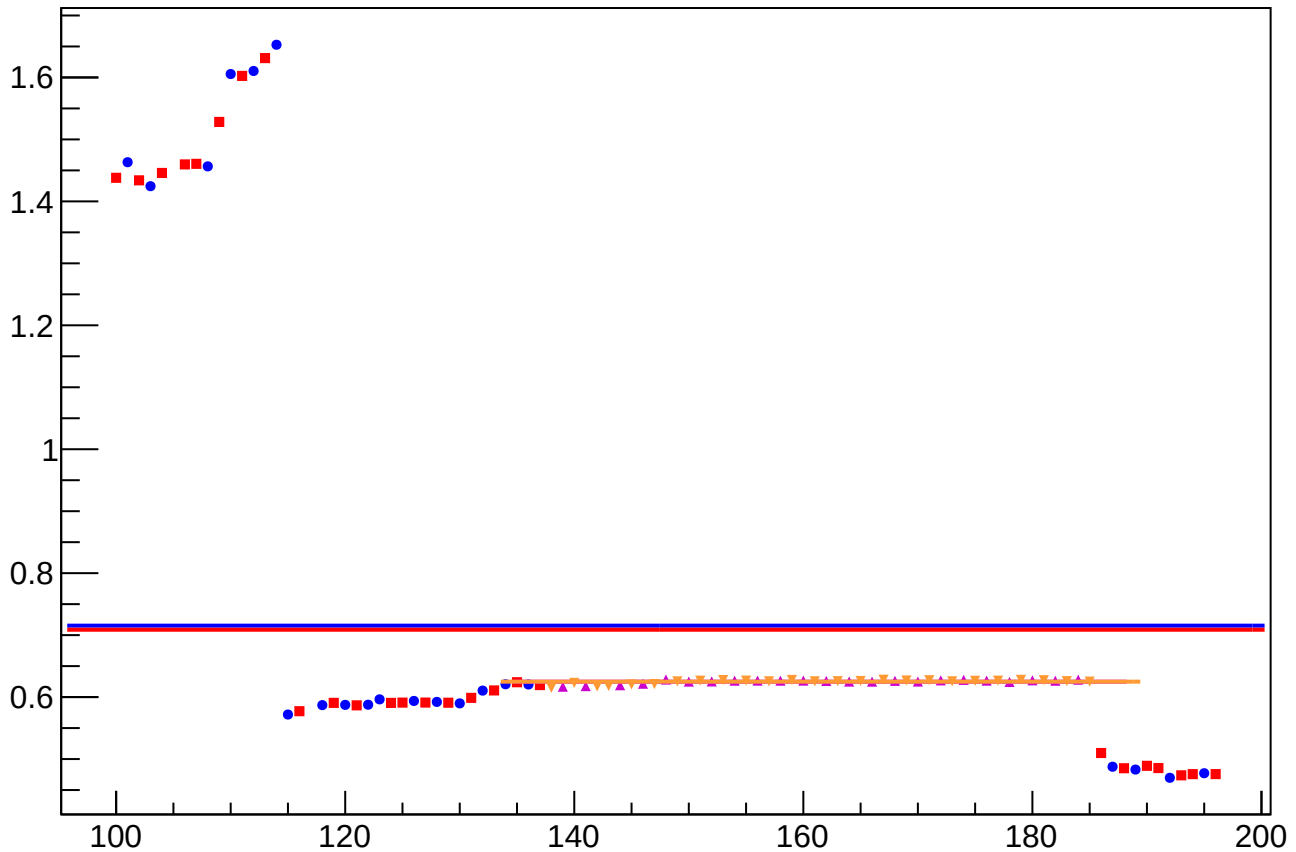
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 6927213.8/46

In: 0.020 $\pm$ 0.000 χ^2 /NDF:3848963.1/43

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:5540376.9/50

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 9398696.9/94

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.715+/-0.000 χ^2/NDF : 4235767099.8/20

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.709+/-0.000 χ^2/NDF : 5398336108.5/25

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

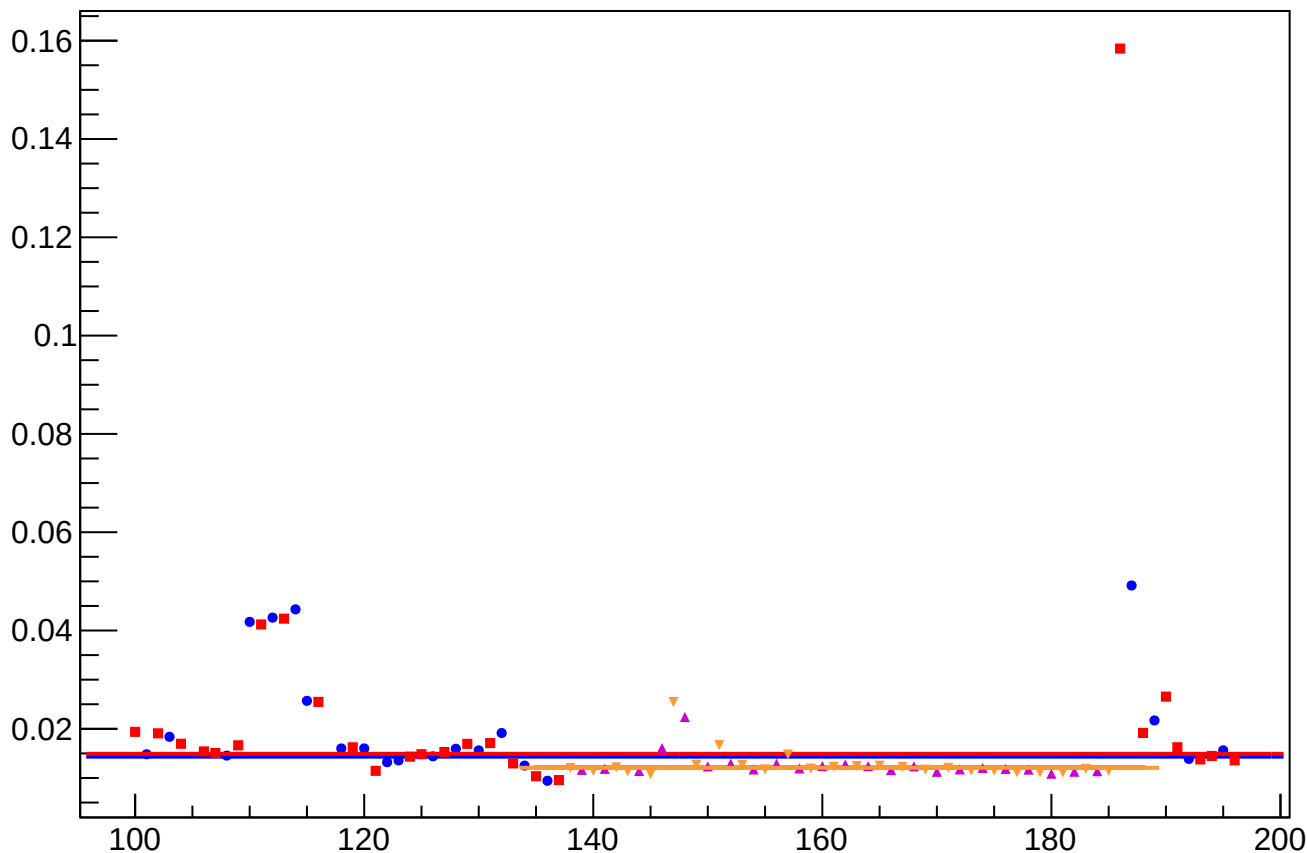
Right: 0.712+/-0.000 χ^2/NDF : 9634972075.7/46

In: 0.647+/-0.000 χ^2/NDF :4466989155.5/43

Out: 0.647+/-0.000 χ^2/NDF :5622533539.7/50

All: 0.647+/-0.000 χ^2/NDF : 10089529051.4/95

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1639245.5/20

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2066856.8/25

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

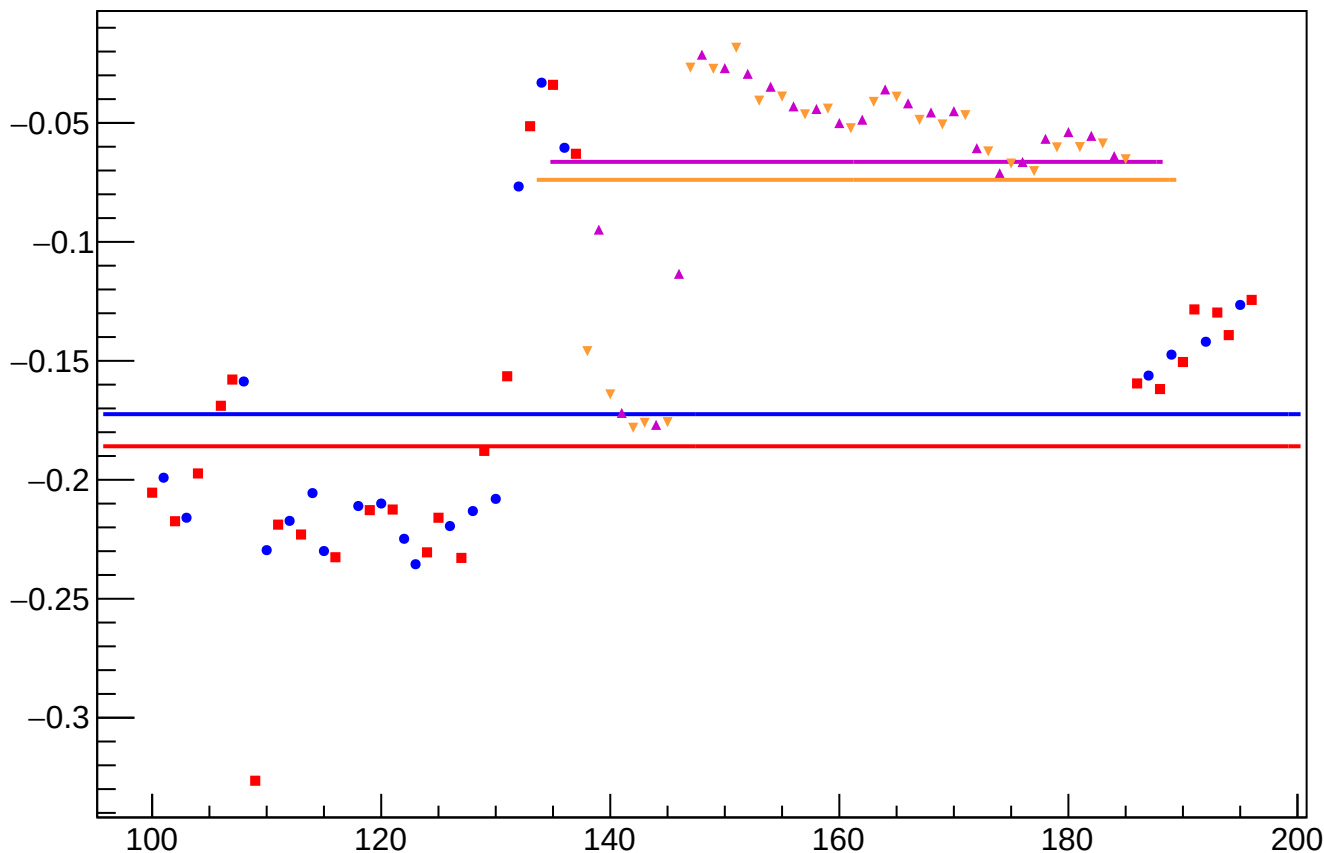
Right: 0.015+/-0.000 χ^2/NDF : 3719098.6/46

In: 0.013+/-0.000 χ^2/NDF : 2400669.3/43

Out: 0.013+/-0.000 χ^2/NDF : 3235063.6/50

All: 0.013+/-0.000 χ^2/NDF : 5638680.8/94

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172 ± 0.000 χ^2/NDF : 67466618.5/20

Left Out: -0.074 ± 0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.186 ± 0.000 χ^2/NDF : 83605921.7/25

Left In: -0.066 ± 0.000 χ^2/NDF : 76283954.4/22

Left: -0.070 ± 0.000 χ^2/NDF : 185261776.8/47

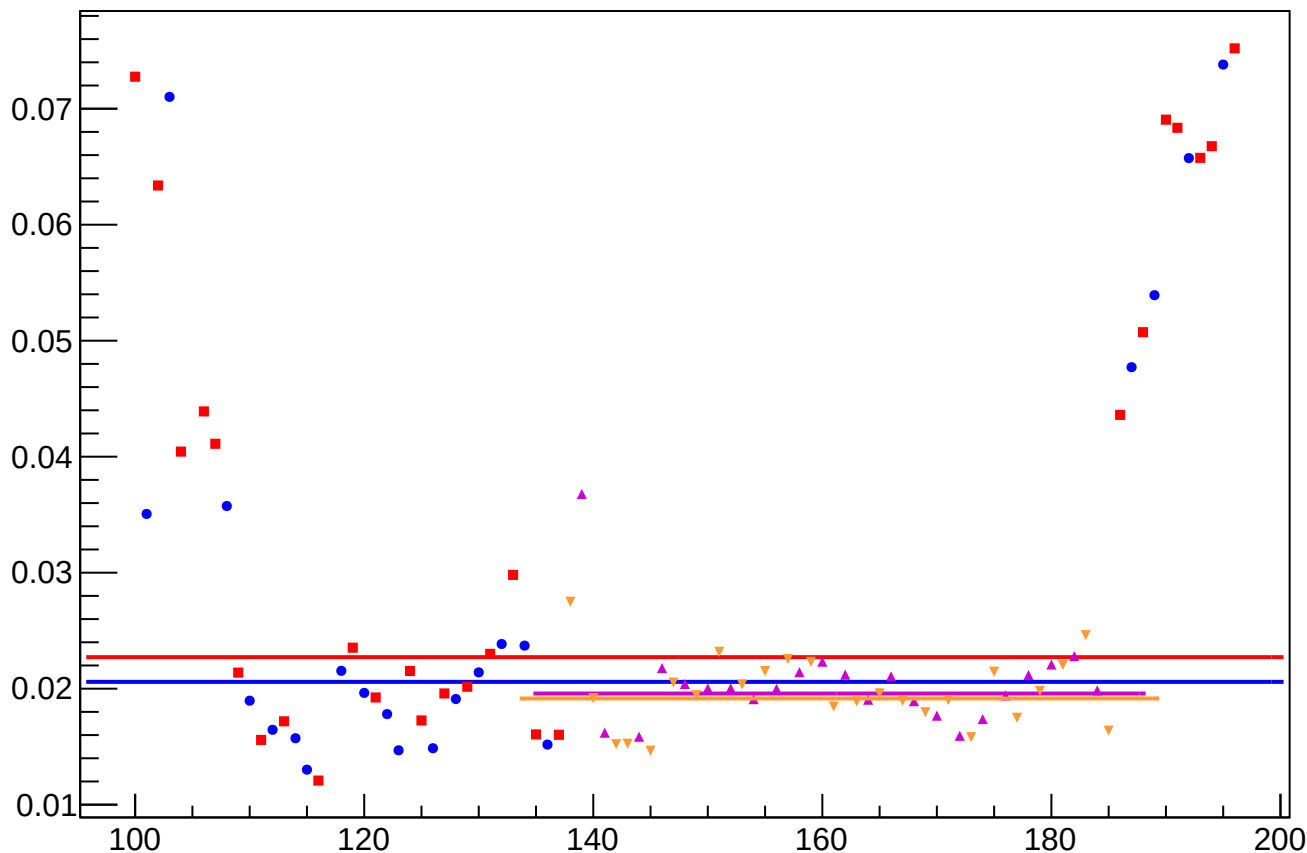
Right: -0.179 ± 0.000 χ^2/NDF : 152388835.4/46

In: -0.096 ± 0.000 χ^2/NDF : 260652895.7/43

Out: -0.103 ± 0.000 χ^2/NDF : 326150454.8/50

All: -0.100 ± 0.000 χ^2/NDF : 588234942.8/94

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3369372.0/20

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4986220.6/25

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

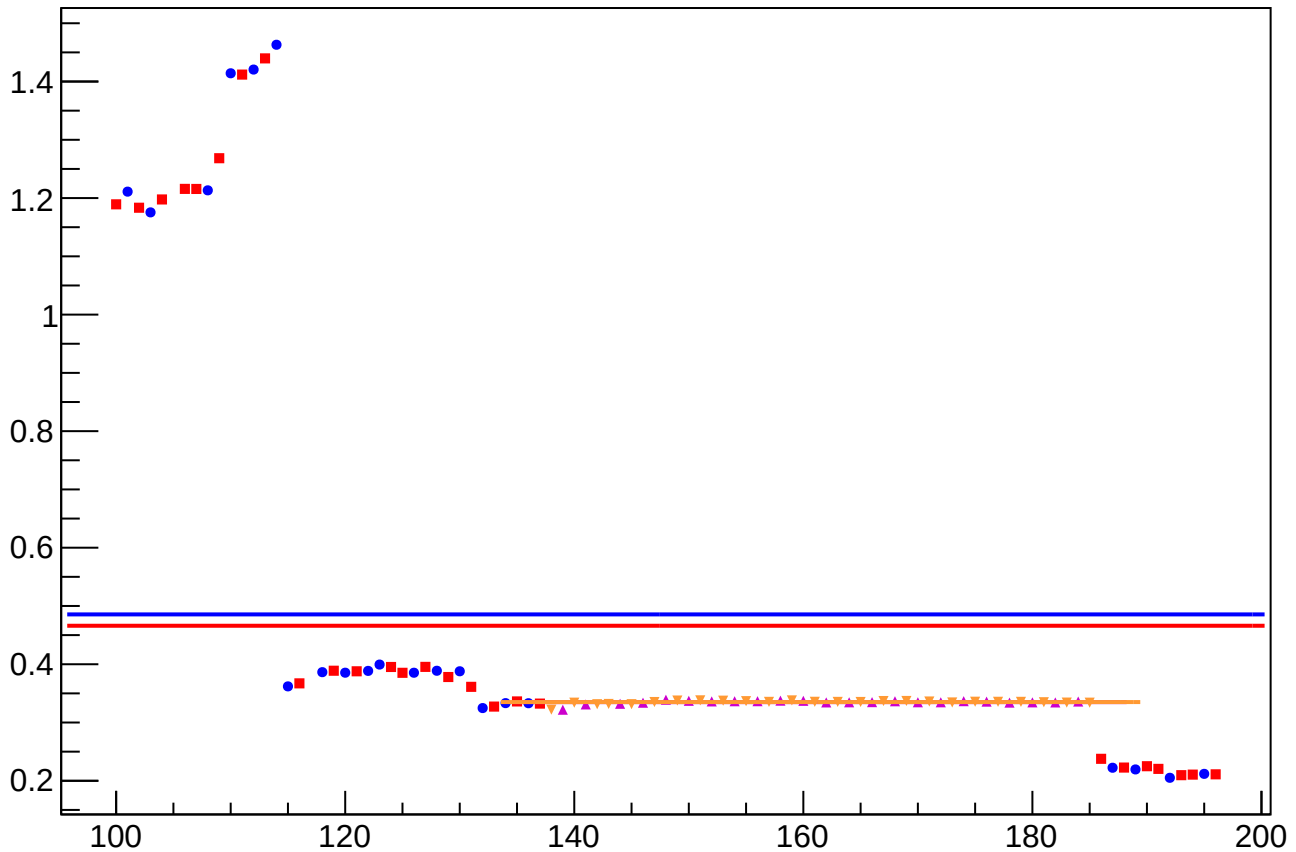
Right: 0.022+/-0.000 χ^2/NDF : 8421143.6/46

In: 0.020+/-0.000 χ^2/NDF : 4041775.2/43

Out: 0.020+/-0.000 χ^2/NDF : 5899724.9/50

All: 0.020+/-0.000 χ^2/NDF : 9944173.8/94

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.486+/-0.000 χ^2/NDF : 6118270459.7/20

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.466+/-0.000 χ^2/NDF : 7542422719.5/25

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

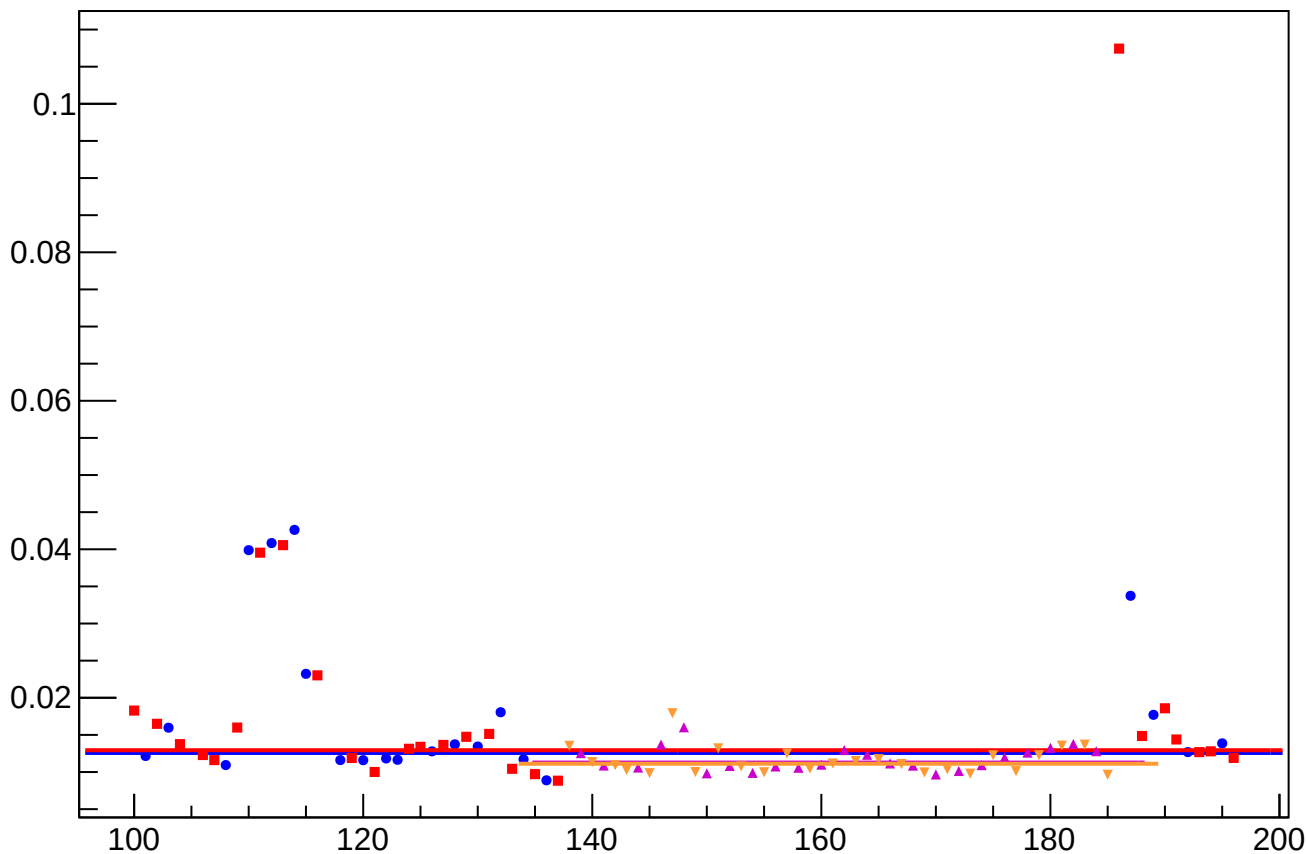
Right: 0.475+/-0.000 χ^2/NDF : 13670672854.0/46

In: 0.376+/-0.000 χ^2/NDF :6925235571.1/43

Out: 0.373+/-0.000 χ^2/NDF :8241032067.8/50

All: 0.374+/-0.000 χ^2/NDF : 15167266246.0/95

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508768.1/20

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1927898.5/25

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

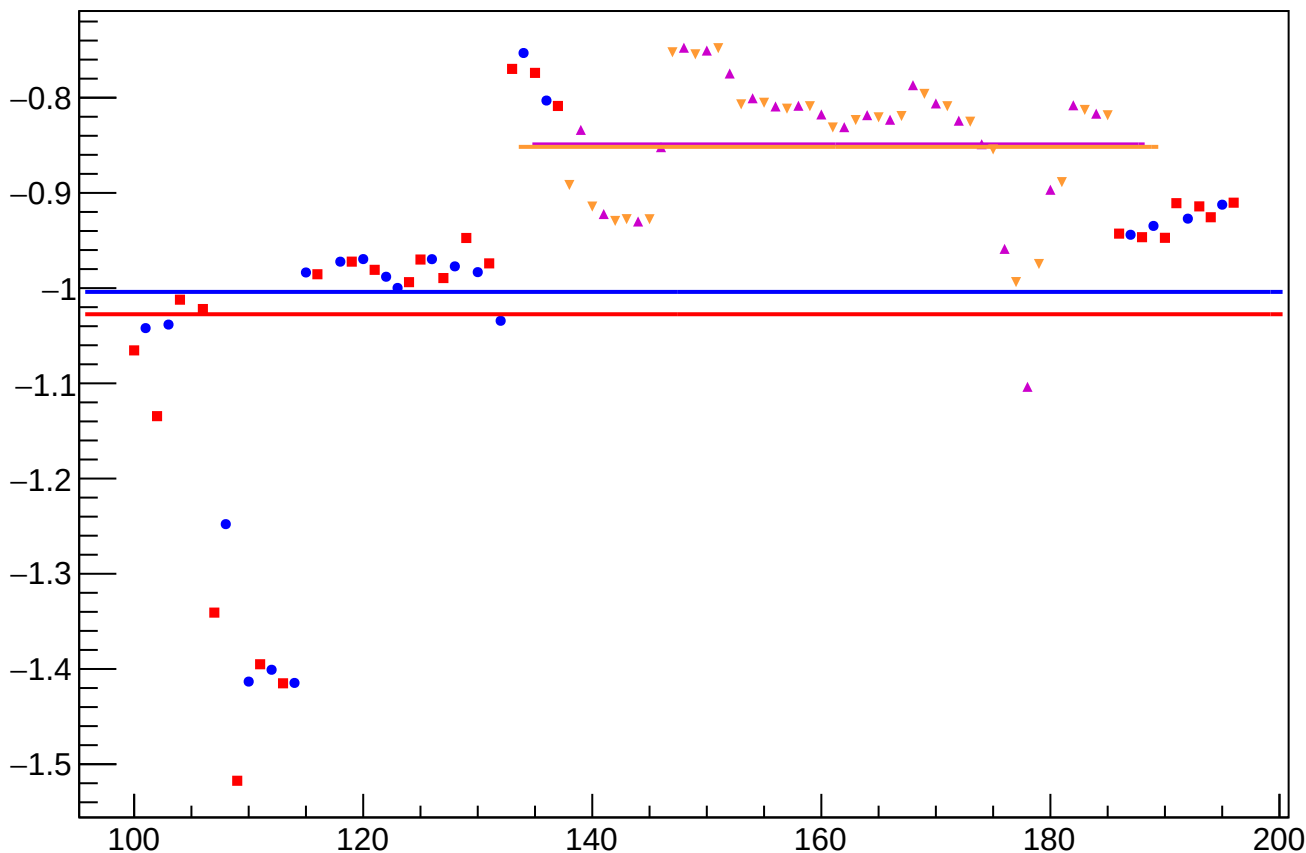
Right: 0.013+/-0.000 χ^2/NDF : 3443785.8/46

In: 0.012+/-0.000 χ^2/NDF : 2130186.8/43

Out: 0.012+/-0.000 χ^2/NDF : 2805662.4/50

All: 0.012+/-0.000 χ^2/NDF : 4935878.3/94

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 $\pm$ 0.000 χ^2 /NDF: 396786346.1/20

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF: 189276591.7/24

Right Out: -1.027 $\pm$ 0.000 χ^2 /NDF: 546829773.8/25

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF: 256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

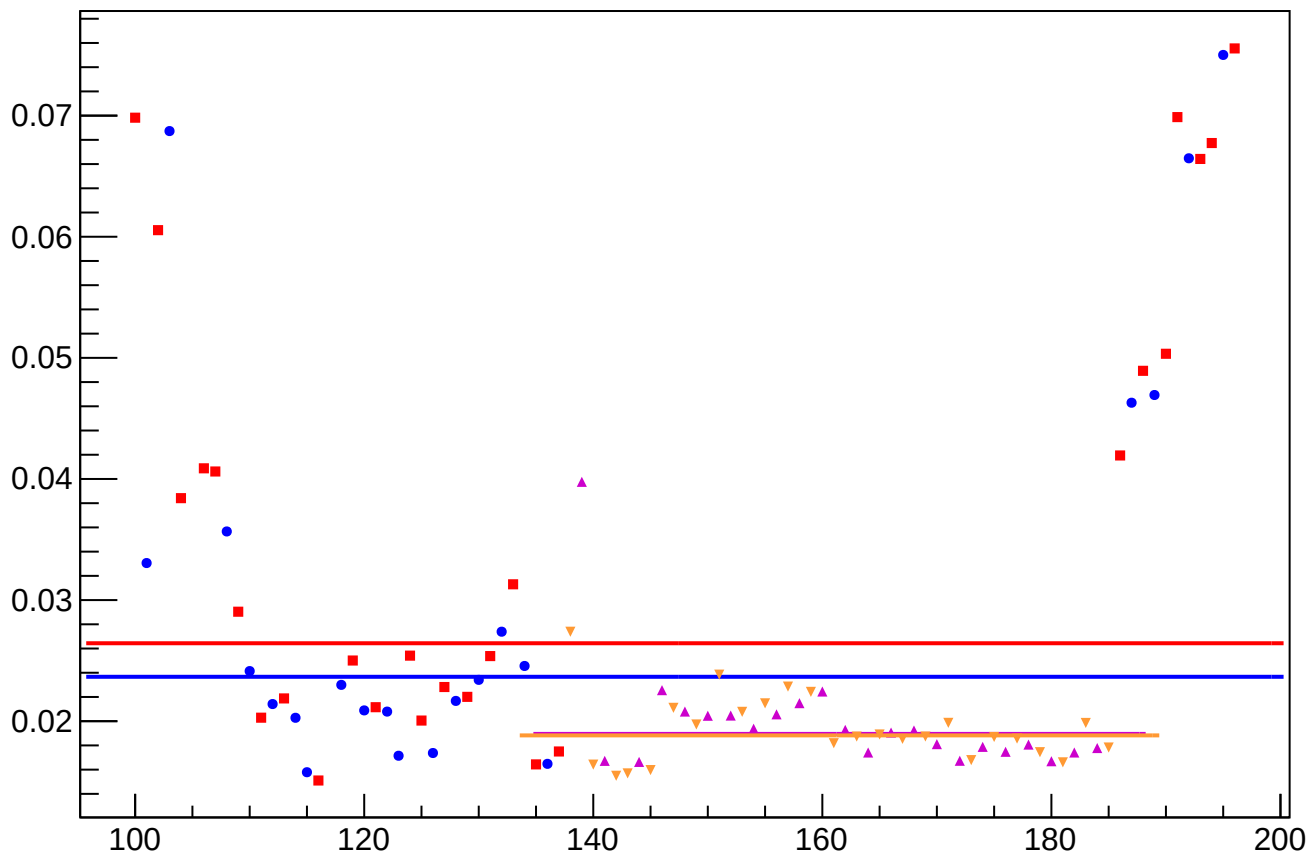
Right: -1.016 $\pm$ 0.000 χ^2 /NDF: 946740980.2/46

In: -0.884 $\pm$ 0.000 χ^2 /NDF: 863917033.1/43

Out: -0.889 $\pm$ 0.000 χ^2 /NDF: 1012762067.8/50

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1877423497.3/99

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2/NDF : 2825791.9/20

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 490084.5/24

Right Out: 0.026 $\pm$ 0.000 χ^2/NDF : 3985621.4/25

Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1135735.6/47

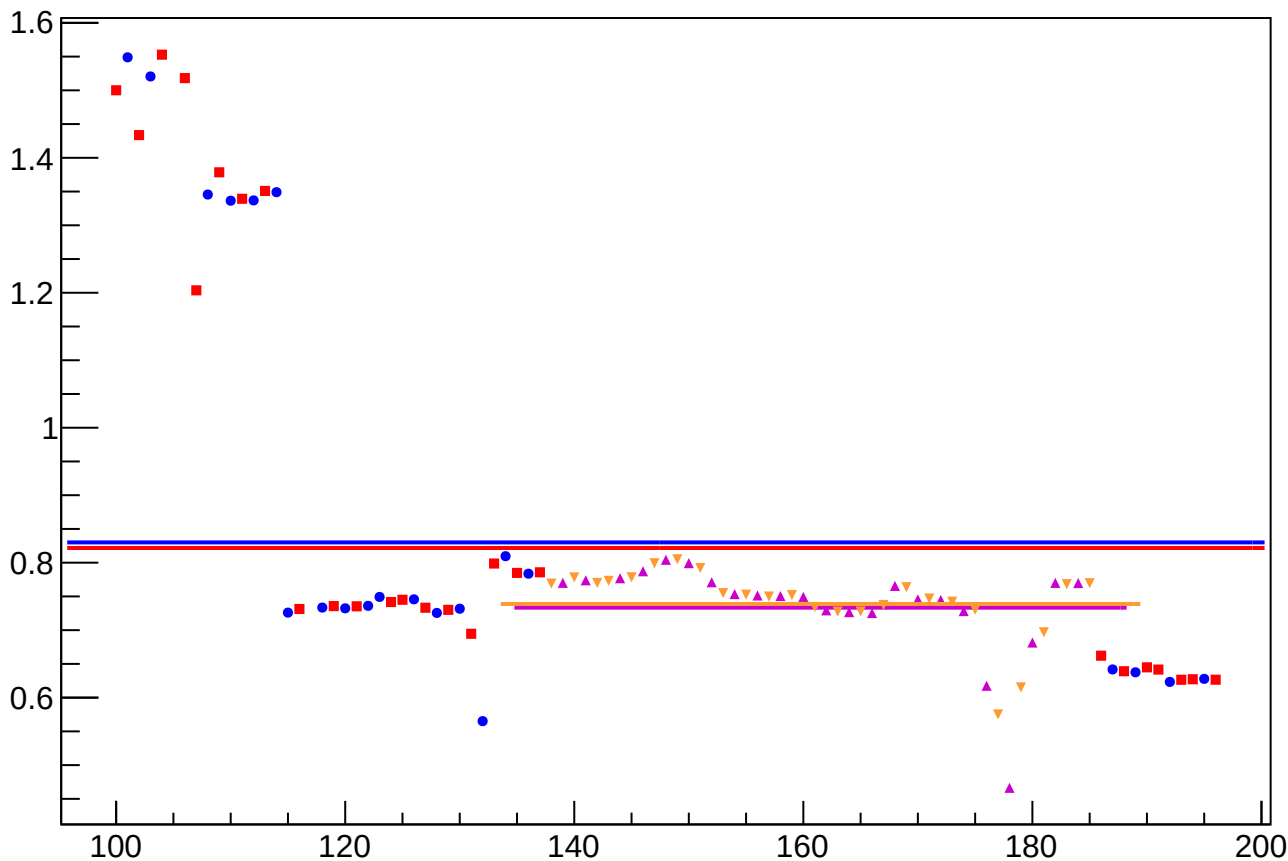
Right: 0.025 $\pm$ 0.000 χ^2/NDF : 6898462.0/46

In: 0.020 $\pm$ 0.000 χ^2/NDF : 3861516.7/43

Out: 0.020 $\pm$ 0.000 χ^2/NDF : 5512098.0/50

All: 0.020 $\pm$ 0.000 χ^2/NDF : 9383835.9/94

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.830 $\pm$ 0.000 χ^2/NDF : 2877377032.3/20

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF :333086309.0/24

Right Out: 0.822 $\pm$ 0.000 χ^2/NDF : 3301996814.3/25

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 905100069.4/47

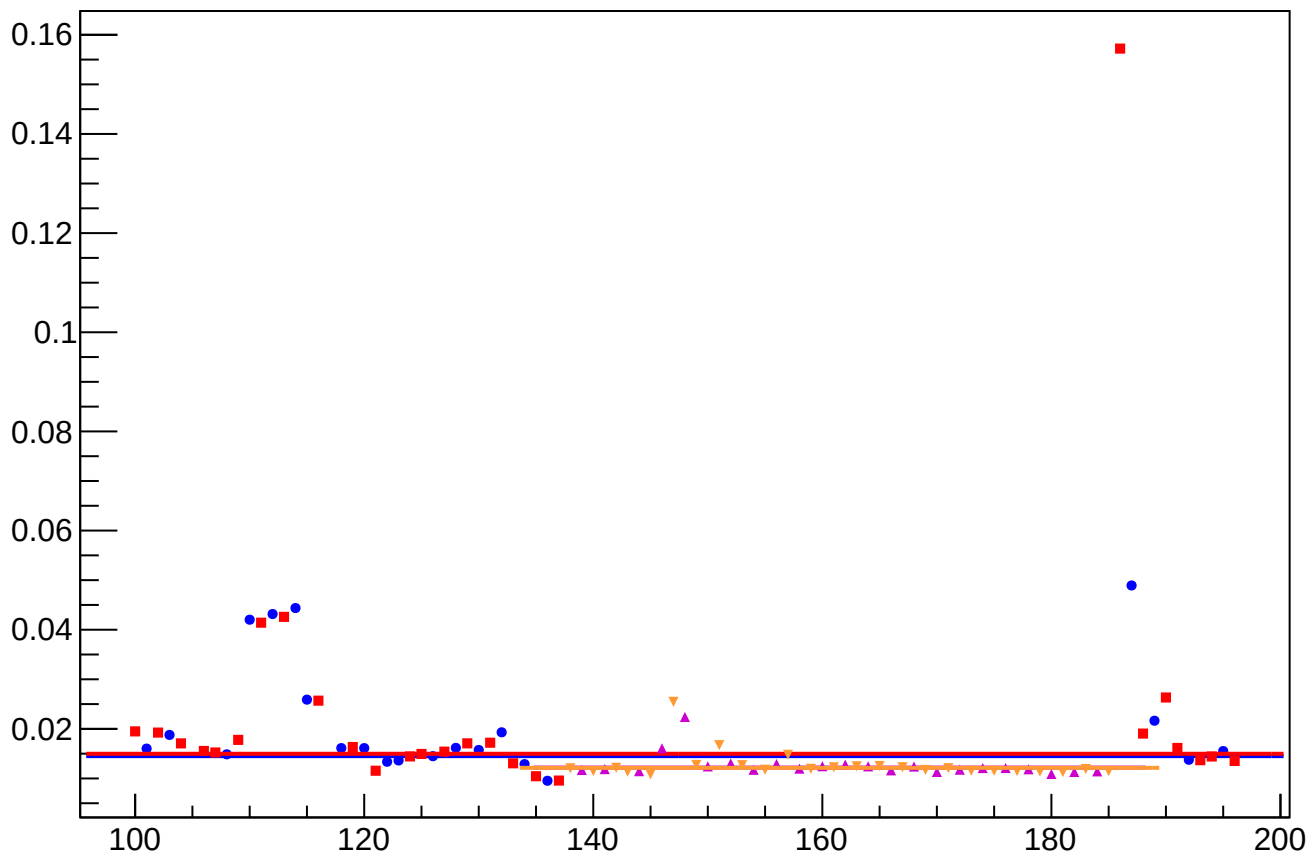
Right: 0.826 $\pm$ 0.000 χ^2/NDF : 6180698553.4/46

In: 0.757 $\pm$ 0.000 χ^2/NDF :3704850362.8/43

Out: 0.761 $\pm$ 0.000 χ^2/NDF :3851100228.8/50

All: 0.759 $\pm$ 0.000 χ^2/NDF : 7557022556.6/94

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1639699.9/20

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2070377.4/25

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

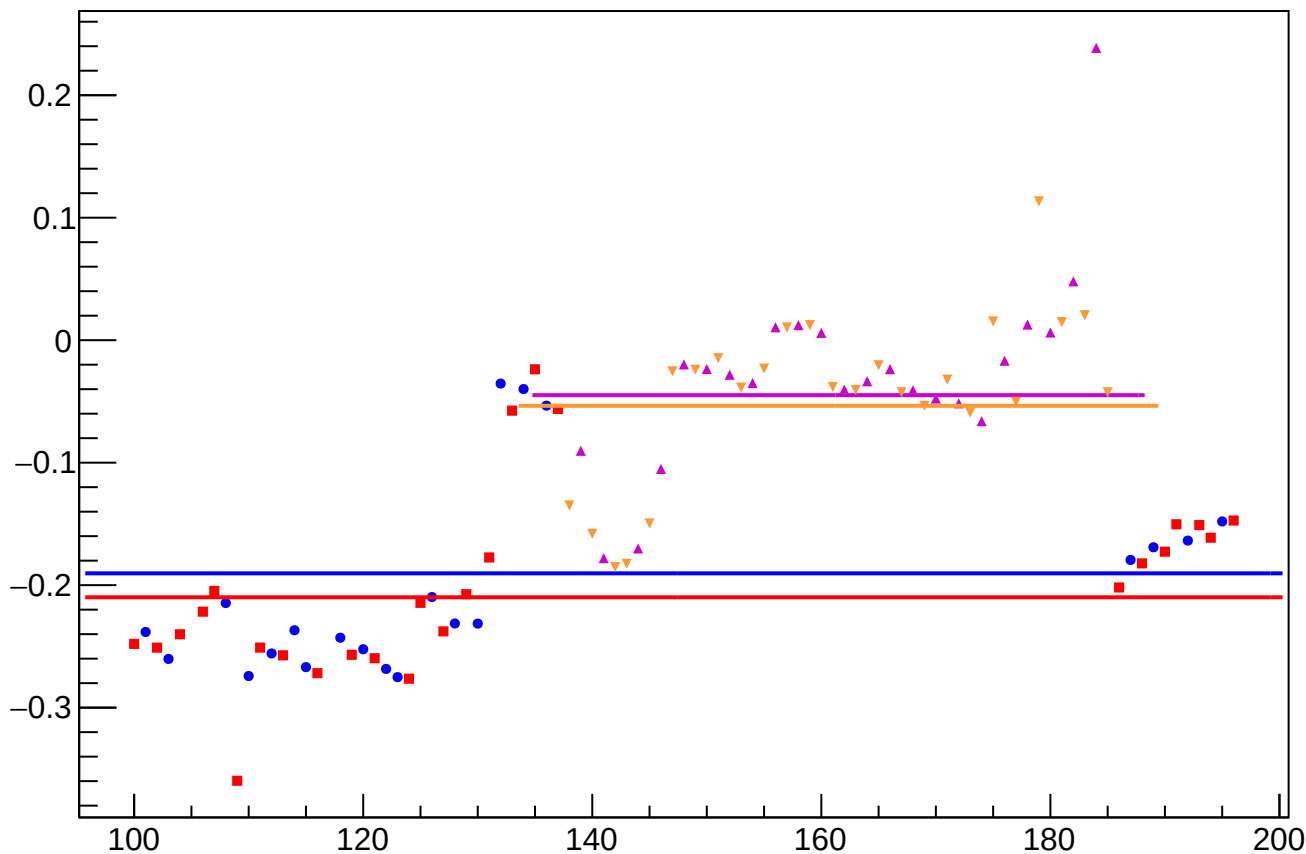
Right: 0.015+/-0.000 χ^2/NDF : 3718863.3/46

In: 0.013+/-0.000 χ^2/NDF : 2415358.9/43

Out: 0.013+/-0.000 χ^2/NDF : 3212541.9/50

All: 0.013+/-0.000 χ^2/NDF : 5630583.0/94

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 $\pm$ 0.000 χ^2 /NDF: 106445379.0/20

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167879648.0/24

Right Out: -0.210 $\pm$ 0.000 χ^2 /NDF: 111791156.2/25

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127324000.1/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296677486.5/47

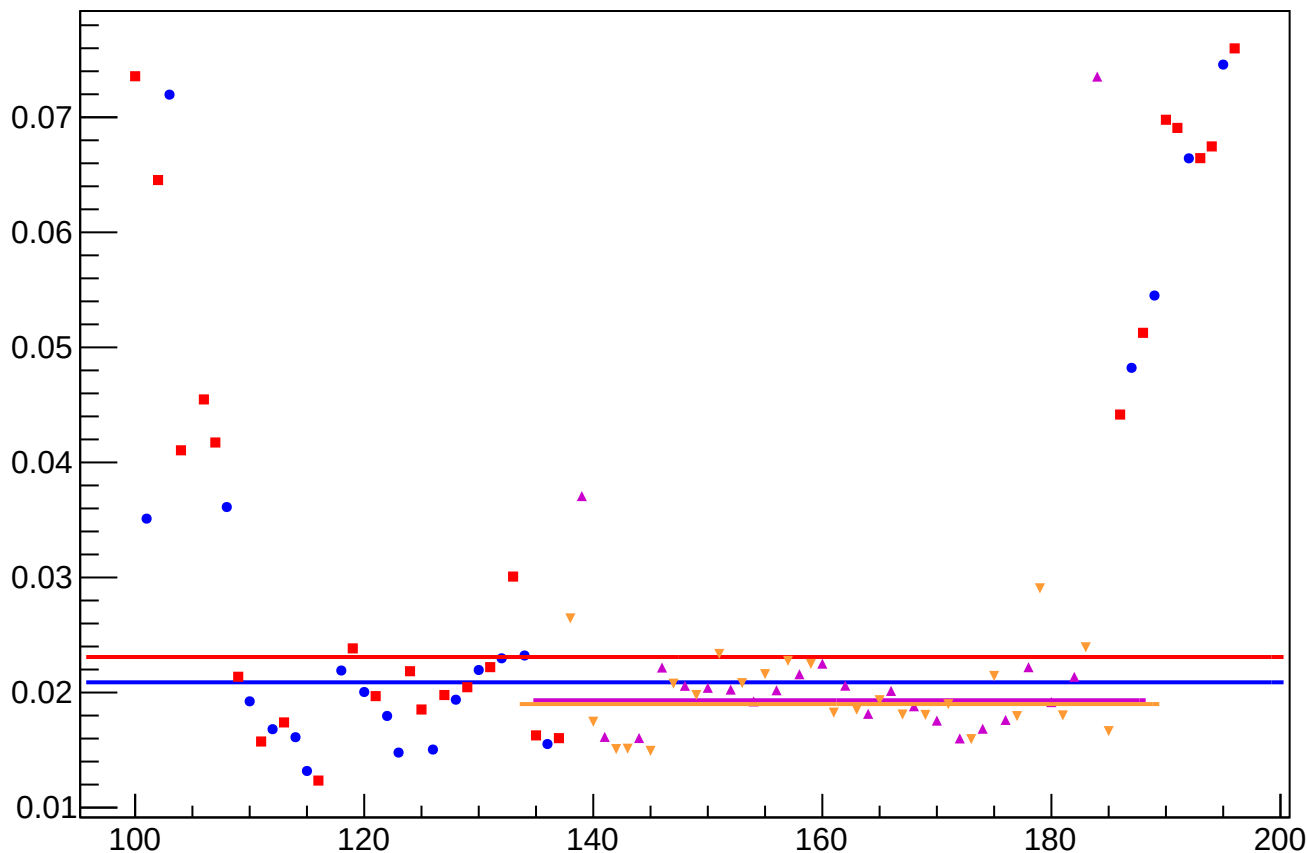
Right: -0.200 $\pm$ 0.000 χ^2 /NDF: 220916622.2/46

In: -0.085 $\pm$ 0.000 χ^2 /NDF: 449265621.7/43

Out: -0.094 $\pm$ 0.000 χ^2 /NDF: 534871575.5/50

All: -0.089 $\pm$ 0.000 χ^2 /NDF: 986397288.1/94

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3332855.8/20

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4957618.8/25

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

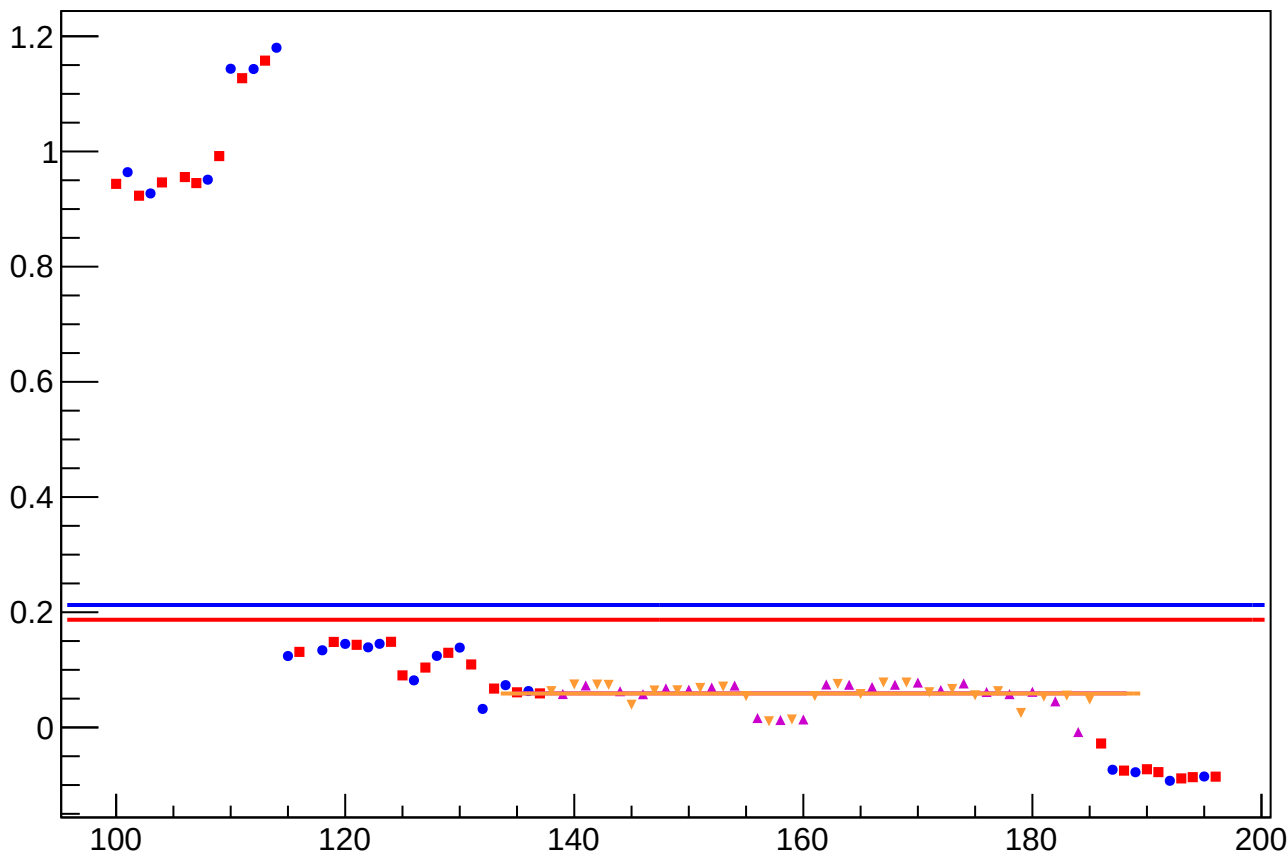
Right: 0.022+/-0.000 χ^2/NDF : 8358341.5/46

In: 0.020+/-0.000 χ^2/NDF : 4275115.8/43

Out: 0.020+/-0.000 χ^2/NDF : 6006484.2/50

All: 0.020+/-0.000 χ^2/NDF : 10286175.4/94

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.213+/-0.000 χ^2/NDF : 6480775969.5/20

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.187+/-0.000 χ^2/NDF : 7864786863.0/25

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

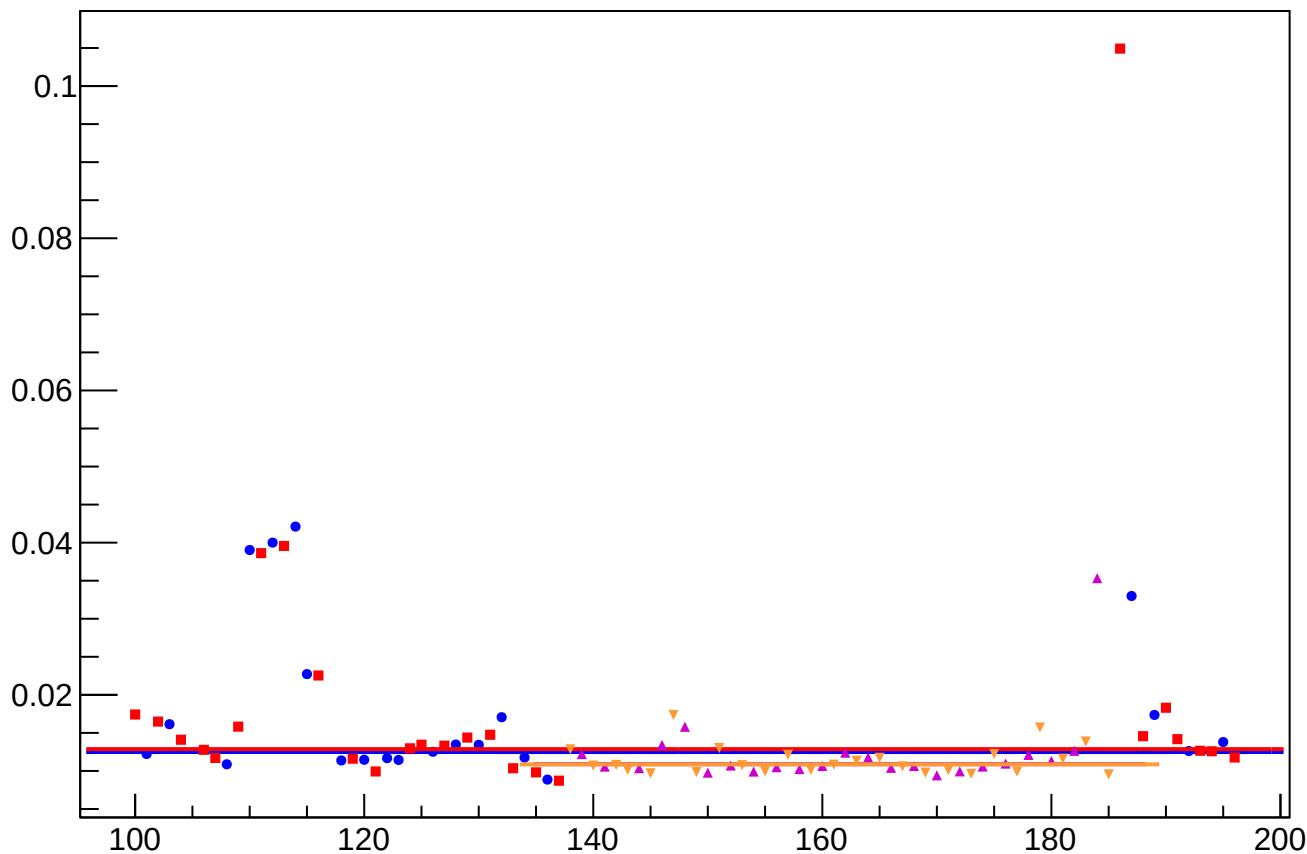
Right: 0.199+/-0.000 χ^2/NDF : 14363045534.7/46

In: 0.100+/-0.000 χ^2/NDF : 7395470008.3/43

Out: 0.095+/-0.000 χ^2/NDF : 8587527940.2/50

All: 0.098+/-0.000 χ^2/NDF : 15984923763.3/95

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1475796.2/20

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1885915.7/25

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

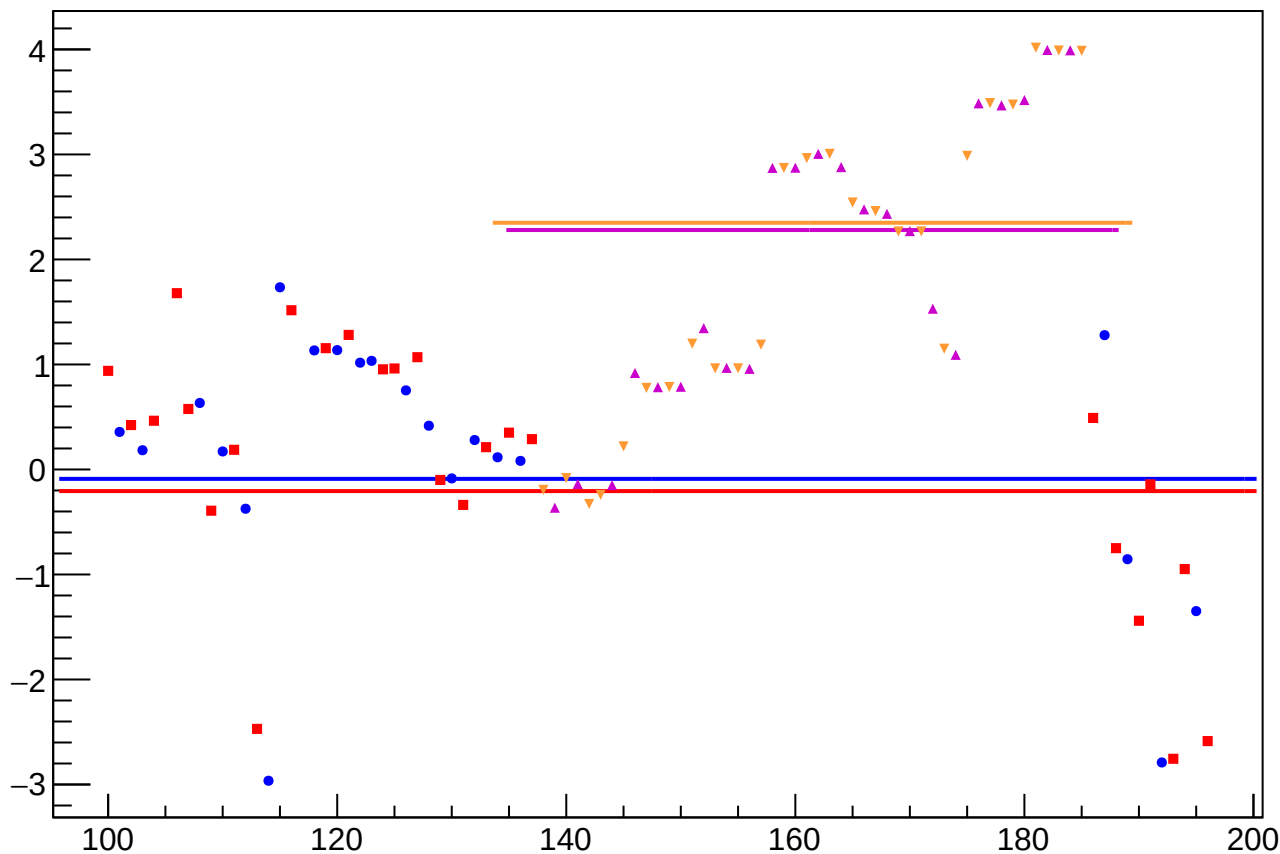
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3369448.4/46

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2190418.3/43

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2821679.1/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5014940.1/94

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.089+/-0.000 χ^2/NDF : 2767185897.1/20

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.206+/-0.000 χ^2/NDF : 4160253661.8/25

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

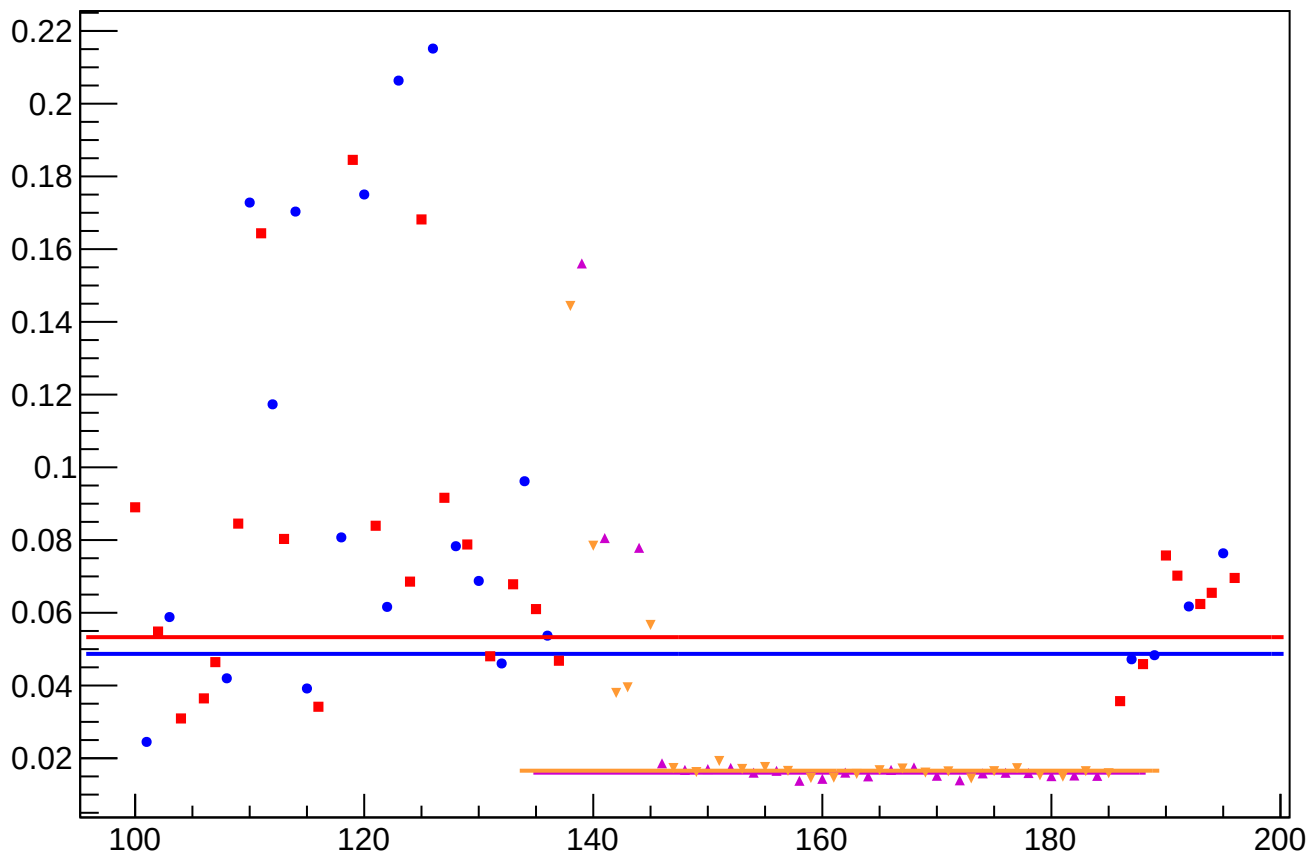
Right: -0.153+/-0.000 χ^2/NDF : 6944581340.8/46

In: 2.179+/-0.000 χ^2/NDF : 76762969718.3/43

Out: 2.219+/-0.000 χ^2/NDF : 84856347889.6/50

All: 2.198+/-0.000 χ^2/NDF : 161662654103.7

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.049 $\pm$ 0.000 χ^2 /NDF: 3114053.1/20

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.053 $\pm$ 0.000 χ^2 /NDF: 2634886.8/25

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

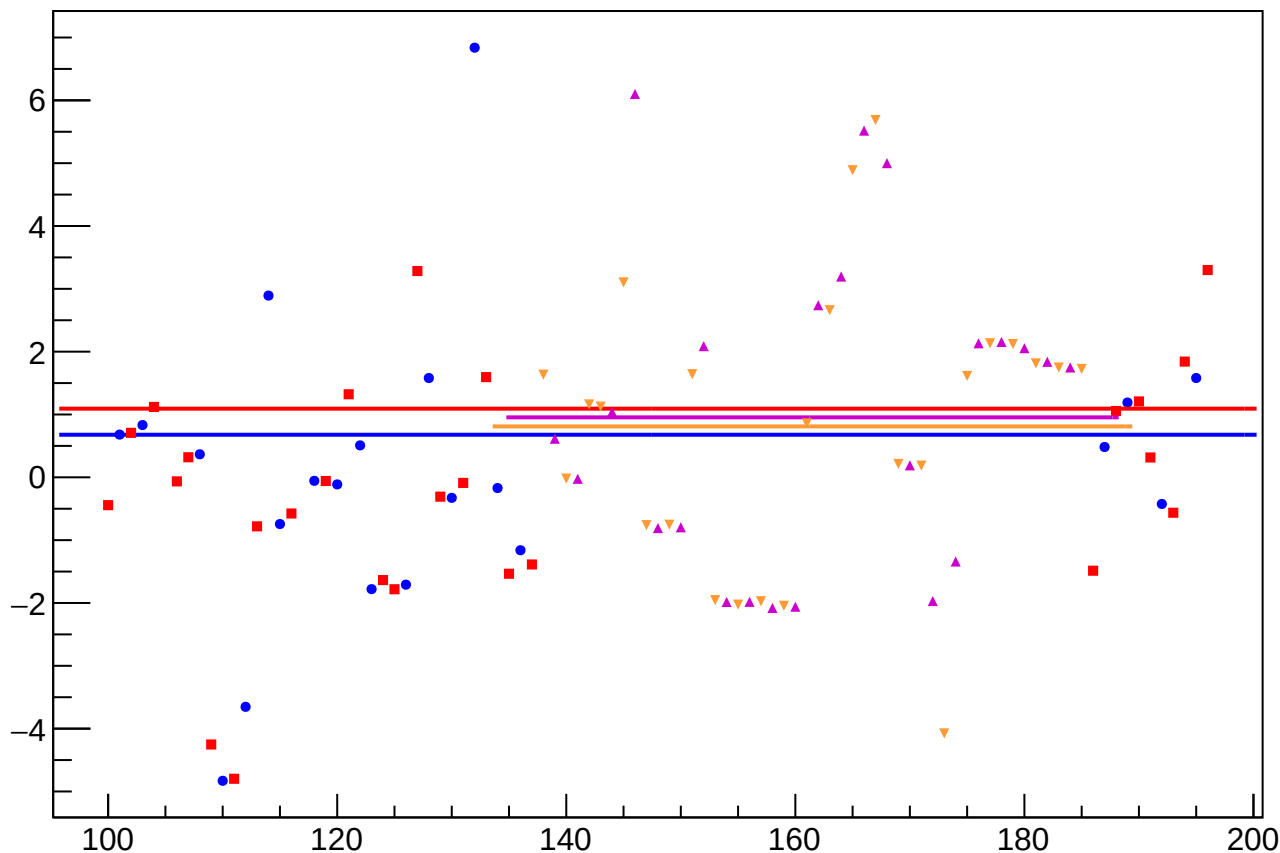
Right: 0.051 $\pm$ 0.000 χ^2 /NDF: 5802471.7/46

In: 0.017 $\pm$ 0.000 χ^2 /NDF:10349603.9/43

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:12320411.9/50

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 22727225.3/94

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.678+/-0.000

χ^2/NDF : 15584582030.6/20

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right: 0.911+/-0.000

χ^2/NDF : 38907730684.2/46

Right Out: 1.093+/-0.000

χ^2/NDF : 22462606691.4/25

In: 0.928+/-0.000

χ^2/NDF : 590994092074.3/43

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

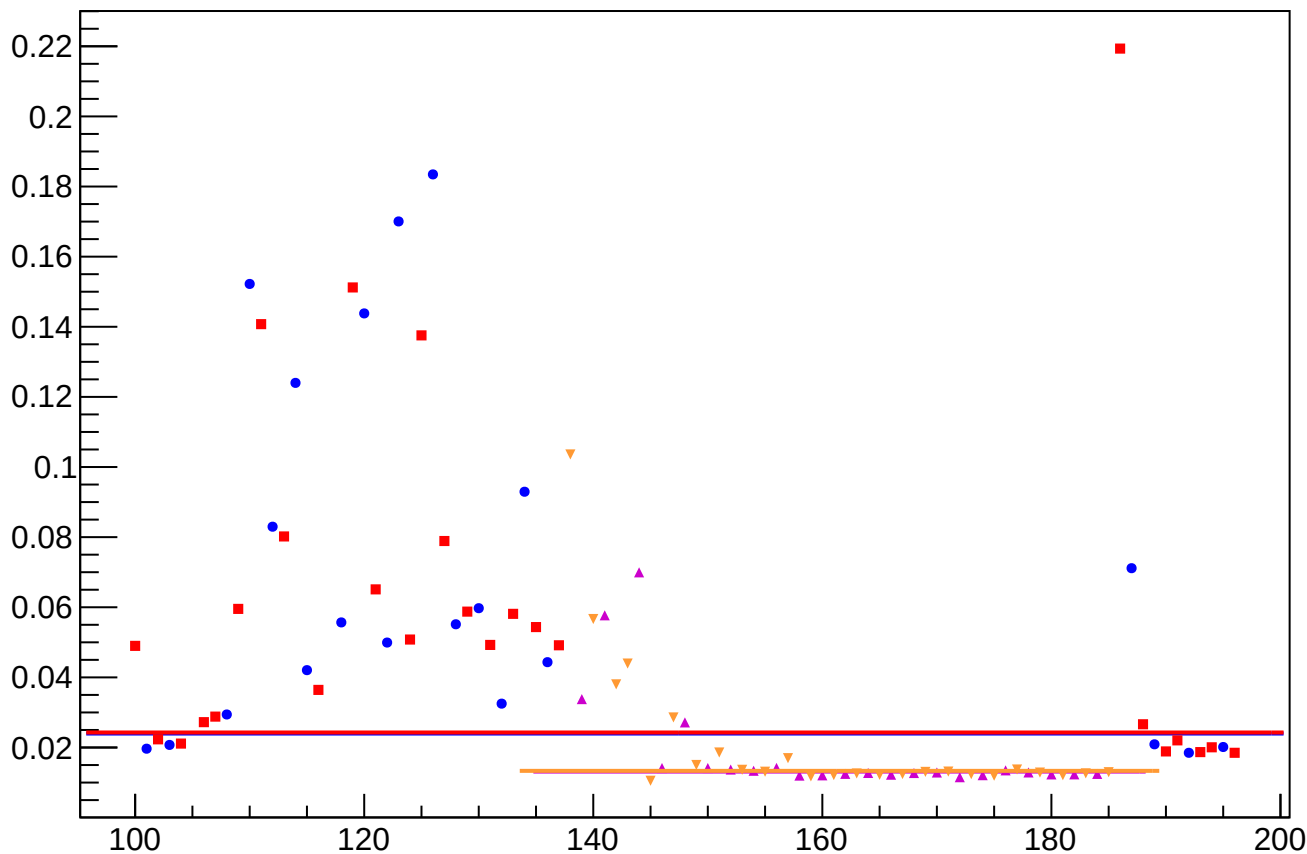
Out: 0.844+/-0.000

χ^2/NDF : 530846587053.1/50

All: 0.886+/-0.000

χ^2/NDF : 1122182307655.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.024+/-0.000 χ^2/NDF : 3524234.8/20

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.024+/-0.000 χ^2/NDF : 4552370.1/25

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

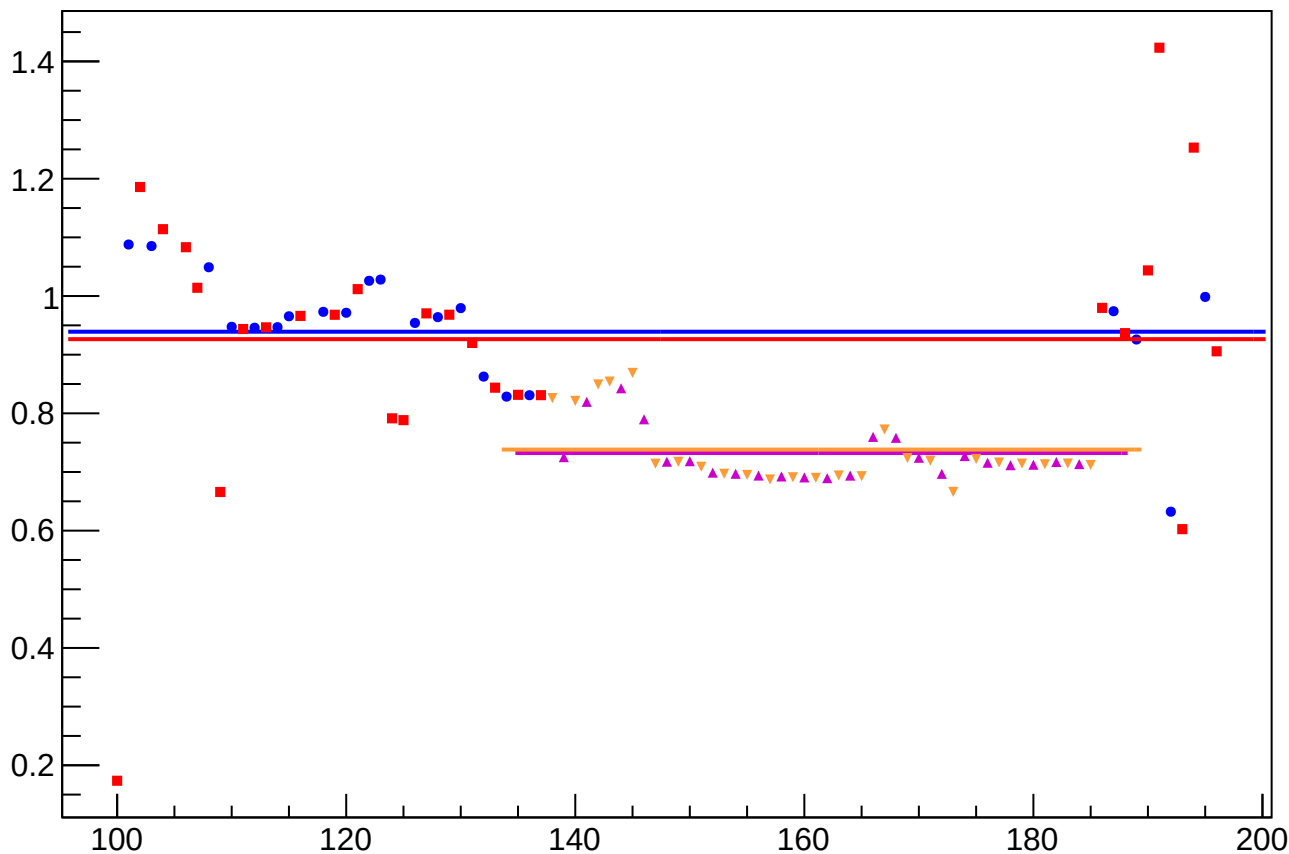
Right: 0.024+/-0.000 χ^2/NDF : 8077511.6/46

In: 0.014+/-0.000 χ^2/NDF : 7389634.4/43

Out: 0.015+/-0.000 χ^2/NDF : 9785272.1/50

All: 0.014+/-0.000 χ^2/NDF : 17196478.6/94

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.939+/-0.000 χ^2/NDF : 300254654.1/20

Left Out: 0.738+/-0.000 χ^2/NDF :310610047.7/24

Right Out: 0.926+/-0.000 χ^2/NDF : 660752471.2/25

Left In: 0.732+/-0.000 χ^2/NDF :170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

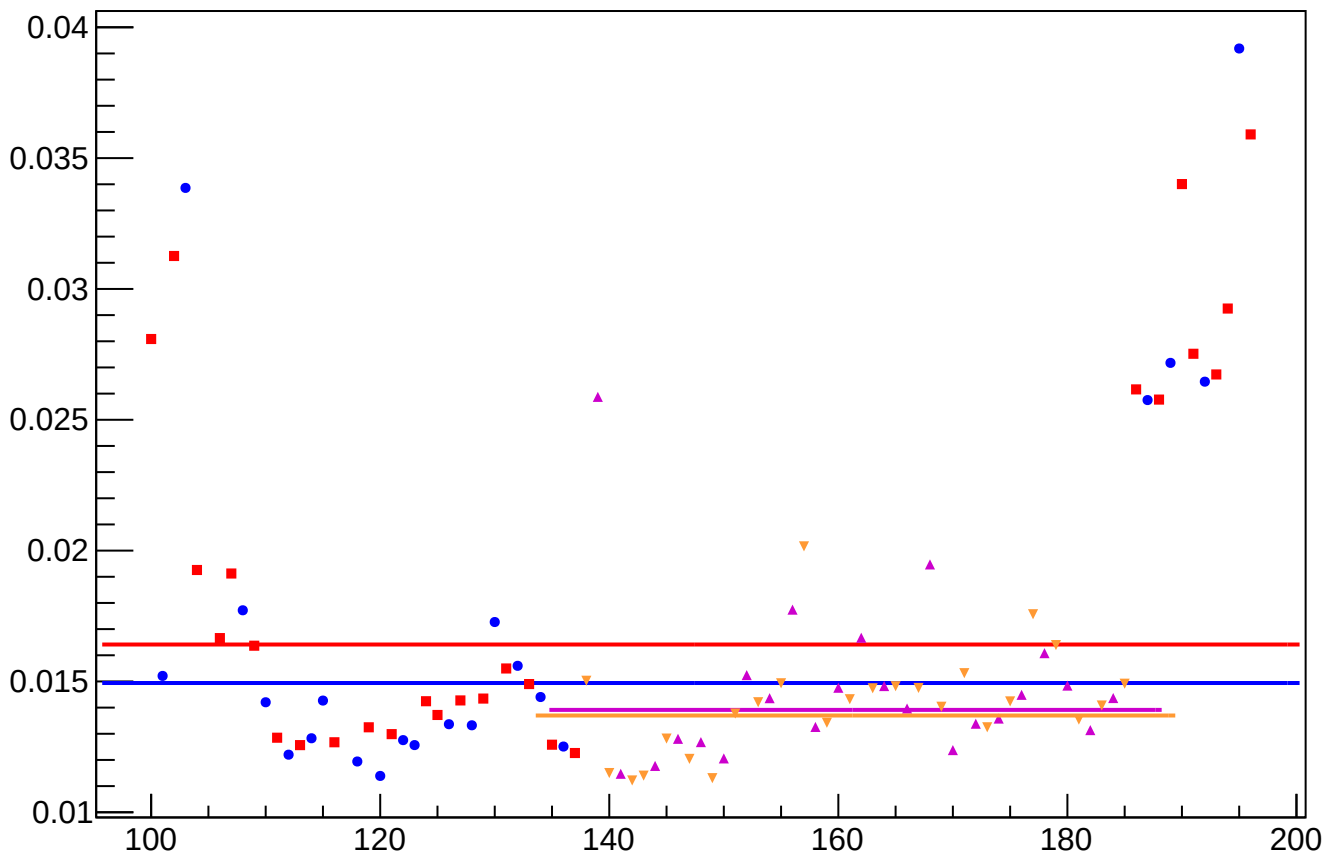
Right: 0.933+/-0.000 χ^2/NDF : 963715287.6/46

In: 0.792+/-0.000 χ^2/NDF :1467971696.2/43

Out: 0.792+/-0.000 χ^2/NDF :1838506418.3/50

All: 0.792+/-0.000 χ^2/NDF : 3306514376.9/94

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1758713.4/20

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.016+/-0.000 χ^2/NDF : 2265351.9/25

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

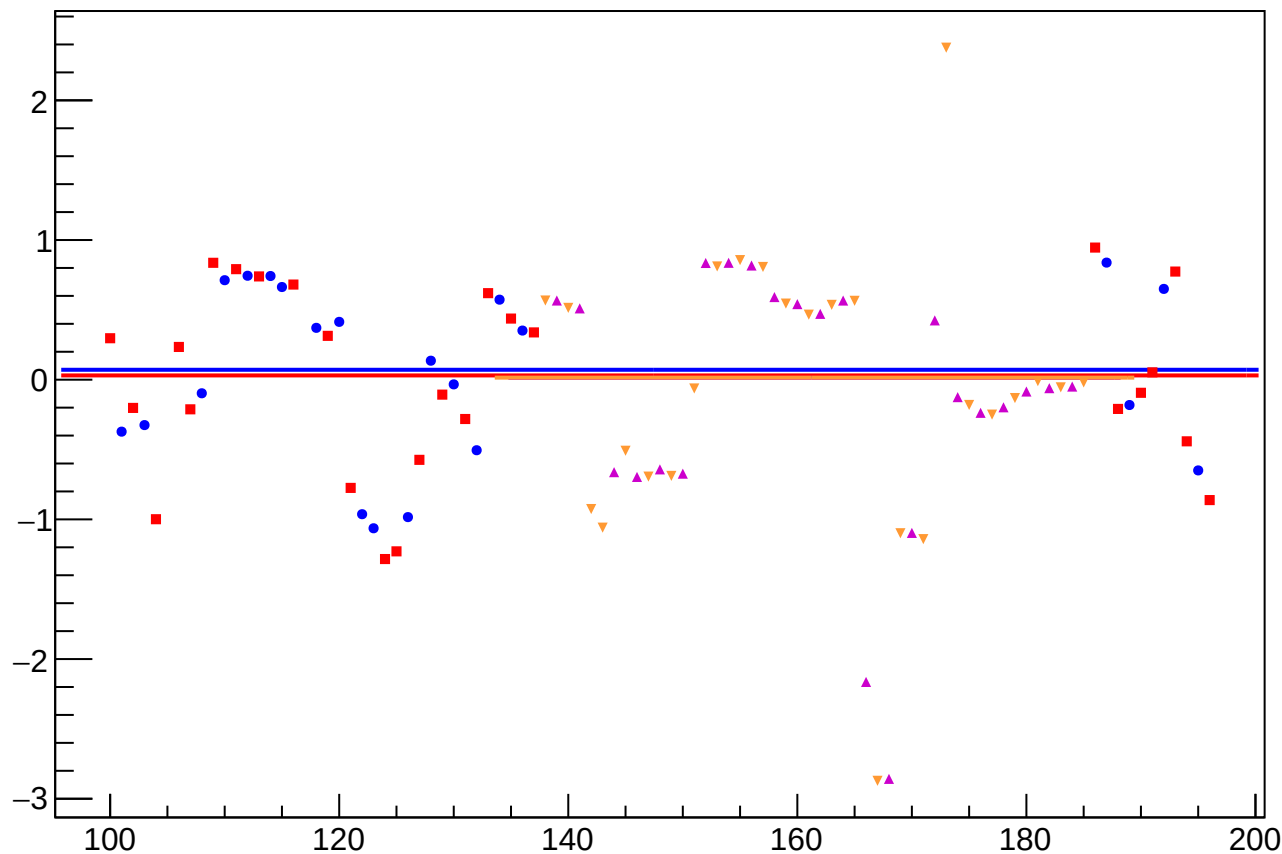
Right: 0.016+/-0.000 χ^2/NDF : 4096501.5/46

In: 0.014+/-0.000 χ^2/NDF : 2602459.5/43

Out: 0.014+/-0.000 χ^2/NDF : 3156641.3/50

All: 0.014+/-0.000 χ^2/NDF : 5766718.1/94

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.071+/-0.000

χ^2/NDF : 12192121629.2/20

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

Right: 0.048+/-0.000 χ^2/NDF : 34838944520.3/46

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

In: 0.029+/-0.000 χ^2/NDF : 91735642378.6/43

Right Out: 0.031+/-0.000

χ^2/NDF : 22609521795.3/25

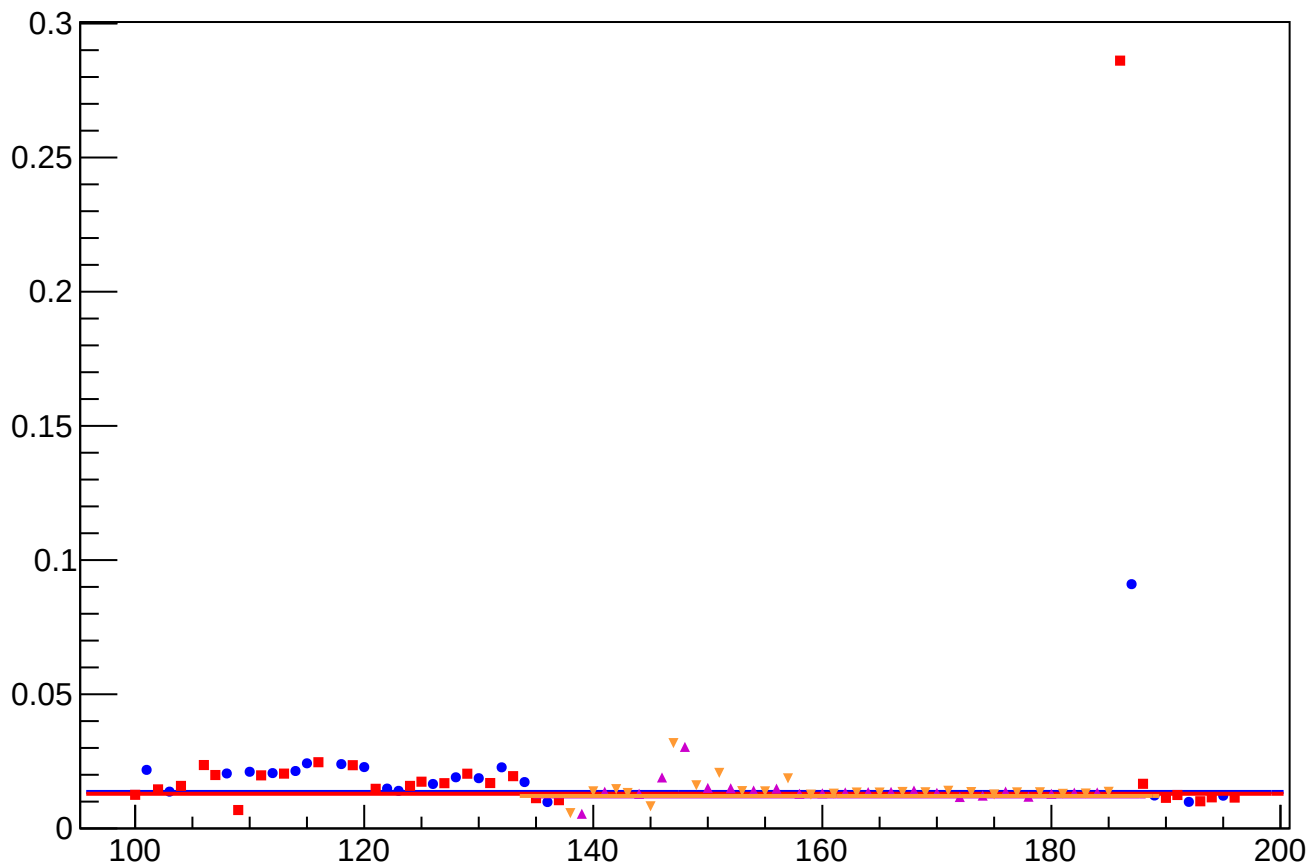
Out: 0.020+/-0.000 χ^2/NDF : 118706321764.4/50

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.024+/-0.000 χ^2/NDF : 210448129791.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1771546.4/20

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3107648.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2481275.8/25

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3105948.8/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6217411.2/47

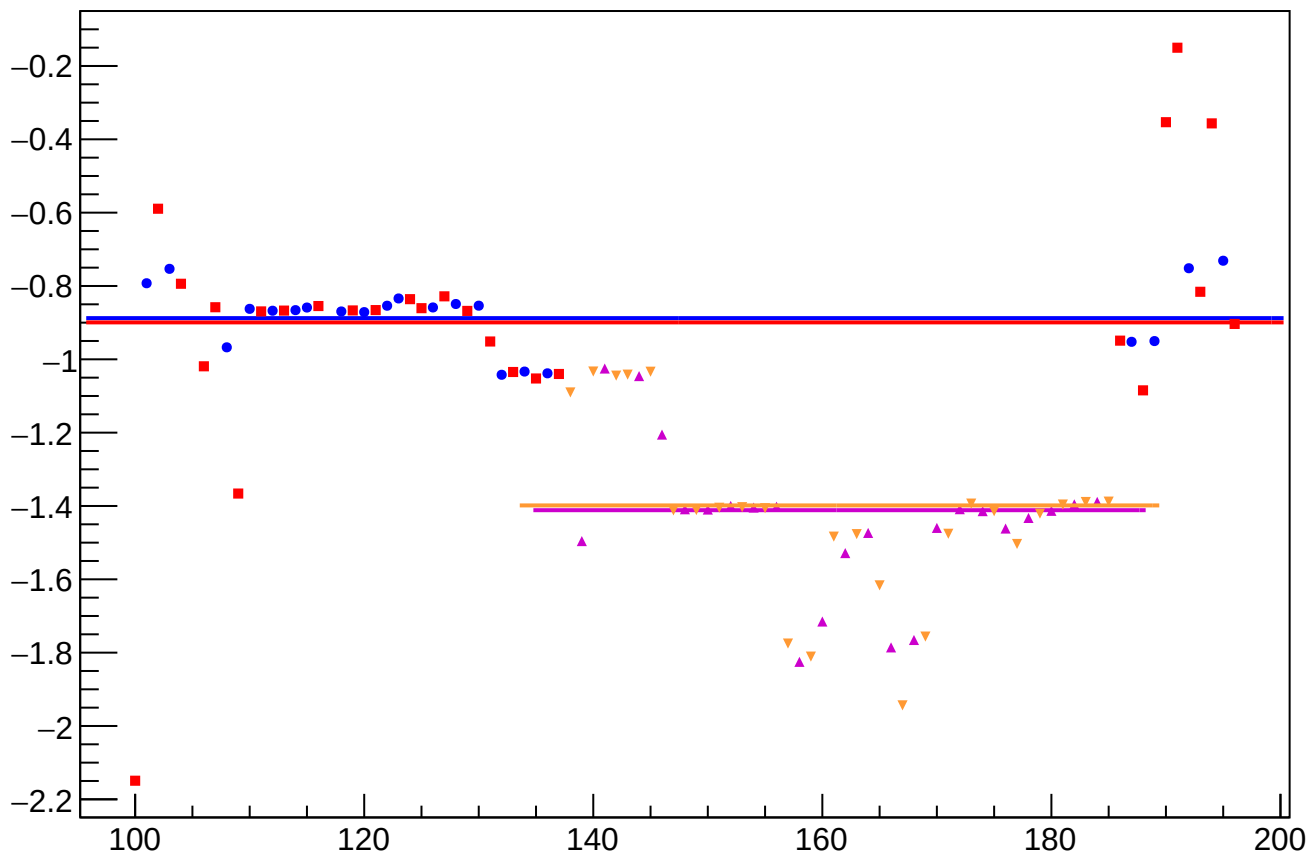
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4273822.4/46

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5040741.7/43

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5635698.6/50

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10676444.7/94

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.888 ± 0.000 $\chi^2/\text{NDF}: 46039404.5/20$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.899 ± 0.000 $\chi^2/\text{NDF}: 242332932.1/25$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

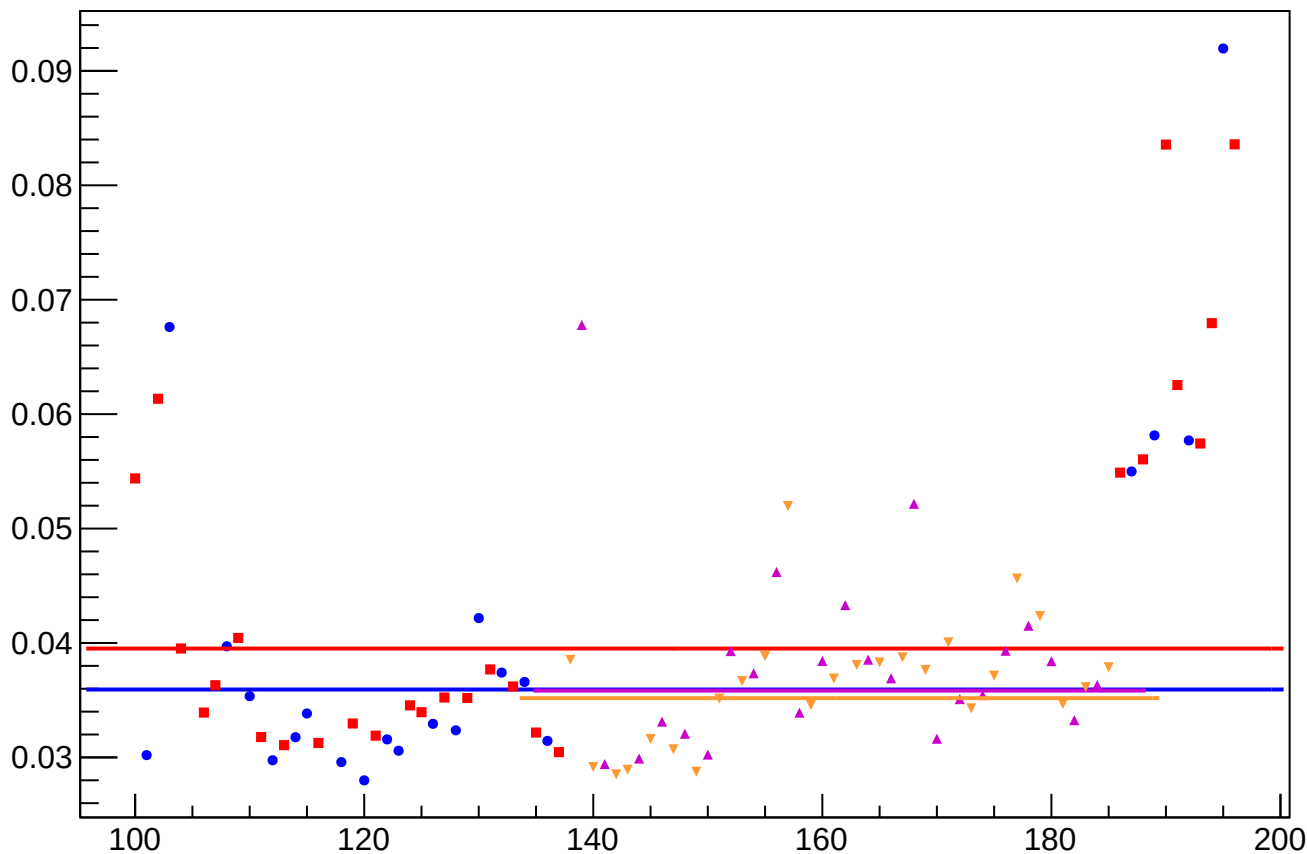
Right: -0.894 ± 0.000 $\chi^2/\text{NDF}: 288771380.4/46$

In: -1.241 ± 0.000 $\chi^2/\text{NDF}: 1628215313.5/43$

Out: -1.240 ± 0.000 $\chi^2/\text{NDF}: 2002360639.4/50$

All: -1.241 ± 0.000 $\chi^2/\text{NDF}: 3630581515.5/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.036 $\pm$ 0.000 χ^2 /NDF: 1444022.9/20

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.040 $\pm$ 0.000 χ^2 /NDF: 1764425.2/25

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

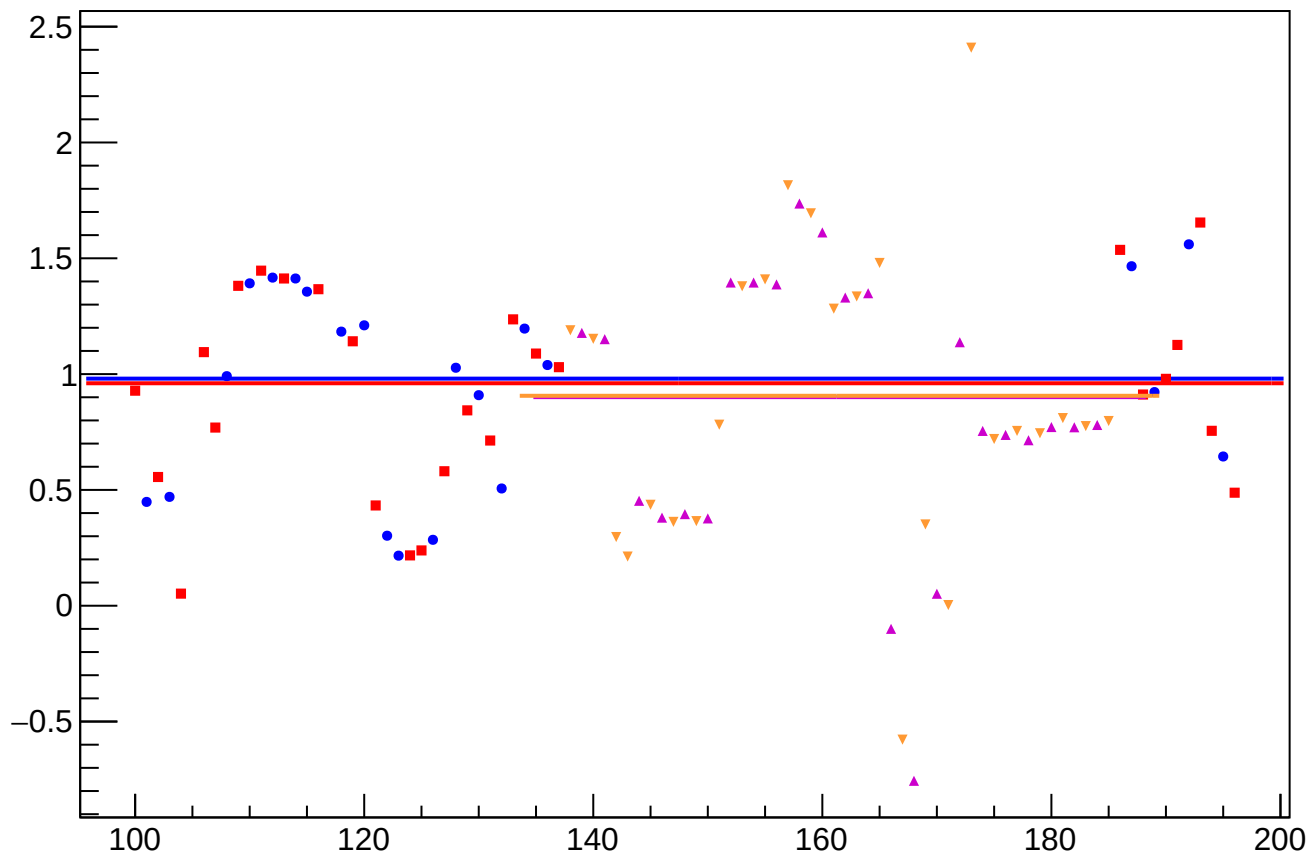
Right: 0.038 $\pm$ 0.000 χ^2 /NDF: 3284004.2/46

In: 0.036 $\pm$ 0.000 χ^2 /NDF:2335089.0/43

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:2516806.8/50

All: 0.036 $\pm$ 0.000 χ^2 /NDF: 4860503.2/94

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.980+/-0.000

χ^2/NDF : 13891589525.5/20

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 0.969+/-0.000 χ^2/NDF : 33099039847.6/46

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.924+/-0.000 χ^2/NDF : 81206801610.1/43

Right Out: 0.960+/-0.000

χ^2/NDF : 19188862603.9/25

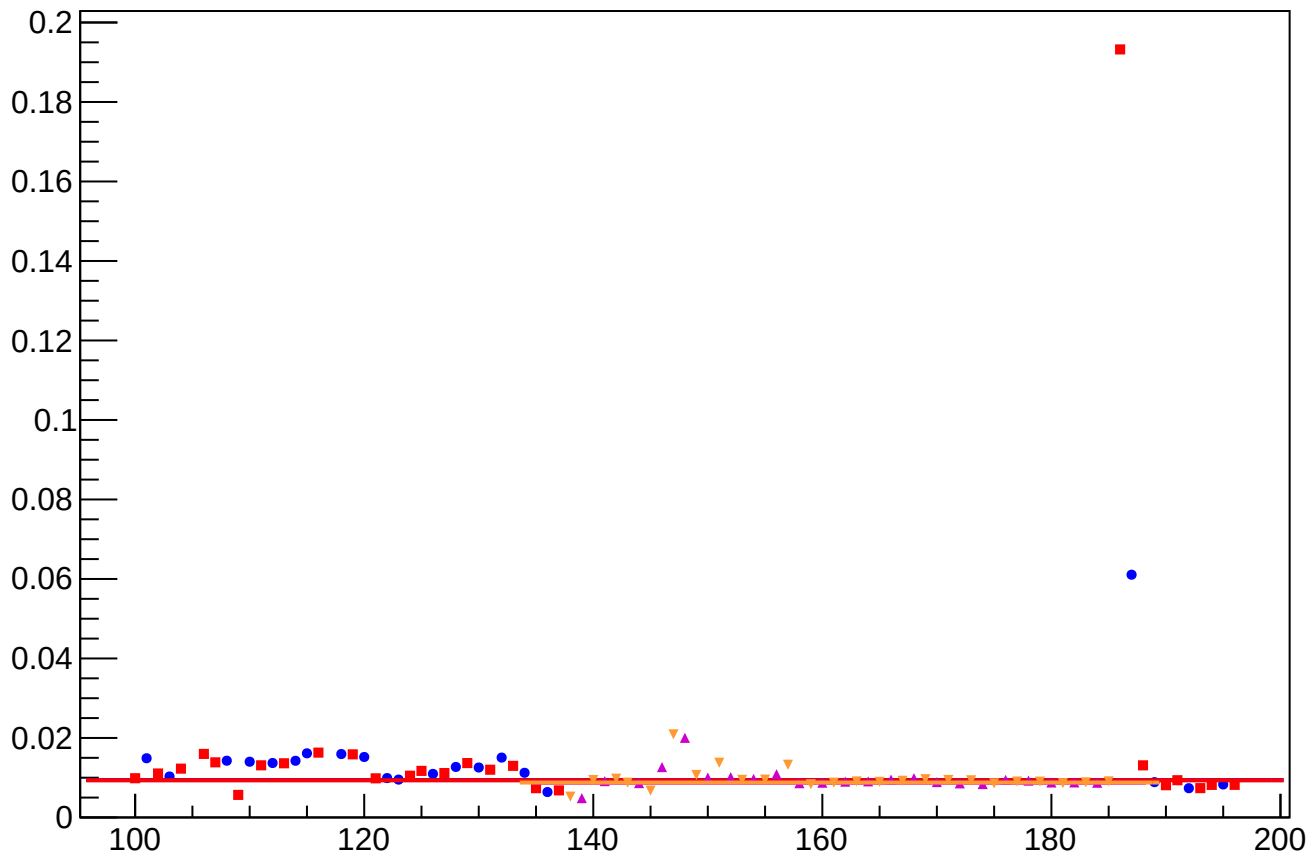
Out: 0.924+/-0.000 χ^2/NDF : 103504028474.6/50

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.924+/-0.000 χ^2/NDF : 184710834951.4

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1655402.6/20

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2154978.4/25

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

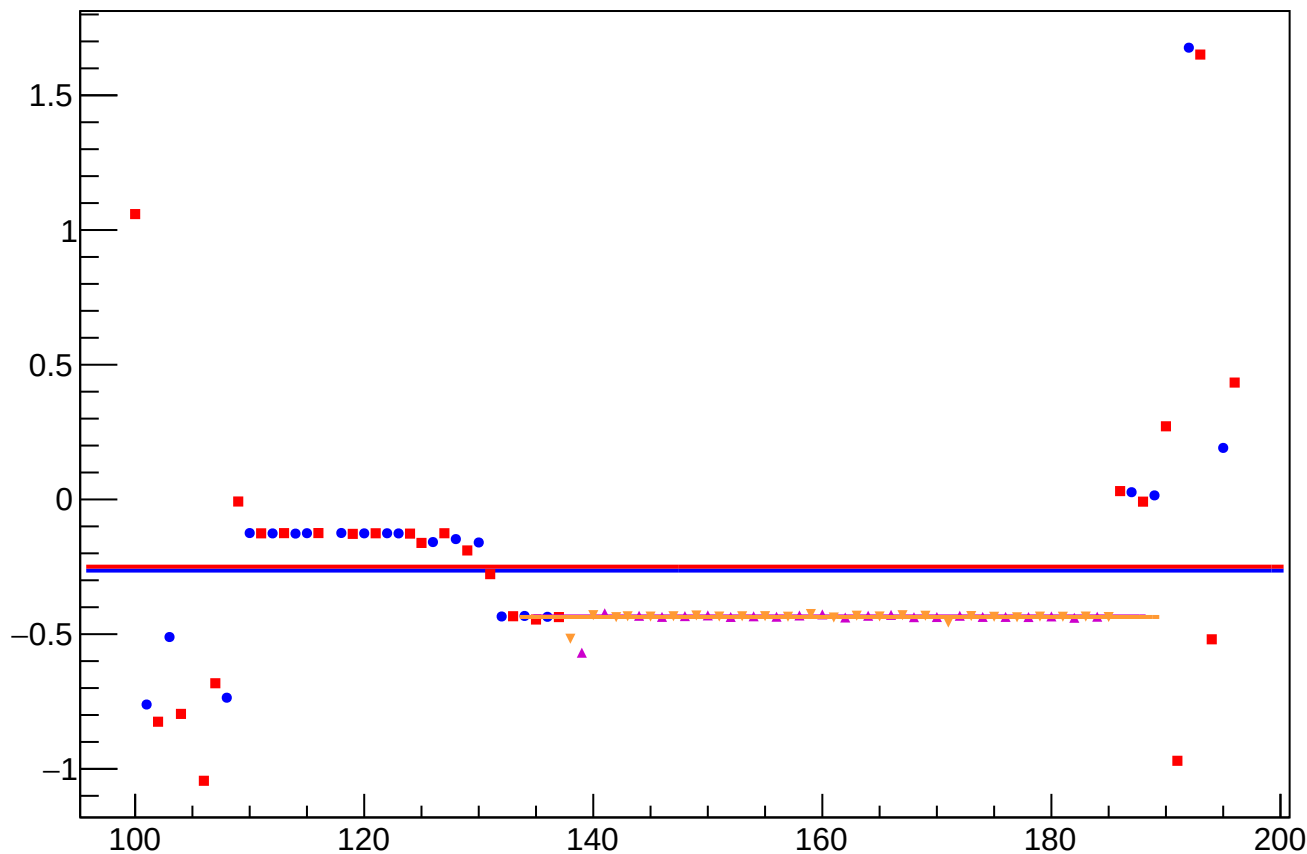
Right: 0.009+/-0.000 χ^2/NDF : 3810548.0/46

In: 0.009+/-0.000 χ^2/NDF : 3377873.7/43

Out: 0.009+/-0.000 χ^2/NDF : 3899468.0/50

All: 0.009+/-0.000 χ^2/NDF : 7277867.0/94

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.264 ± 0.000 $\chi^2/\text{NDF}: 1883803044.1/20$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.249 ± 0.000 $\chi^2/\text{NDF}: 1833080272.2/25$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

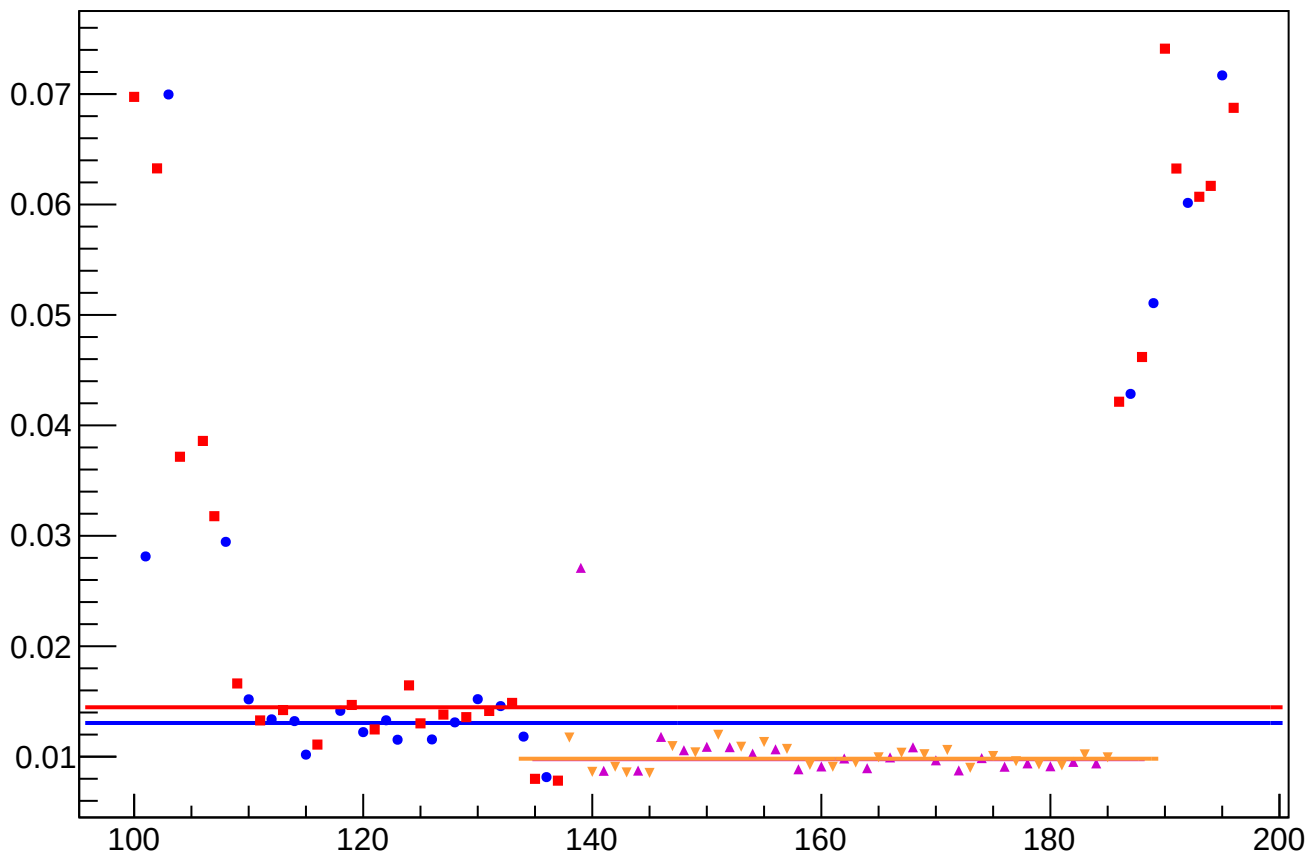
Right: -0.257 ± 0.000 $\chi^2/\text{NDF}: 3720235933.7/46$

In: -0.405 ± 0.000 $\chi^2/\text{NDF}: 2671714735.5/43$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 2770558100.2/50$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 5442552738.7/9$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4501882.1/20

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.014+/-0.000 χ^2/NDF : 6657151.4/25

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

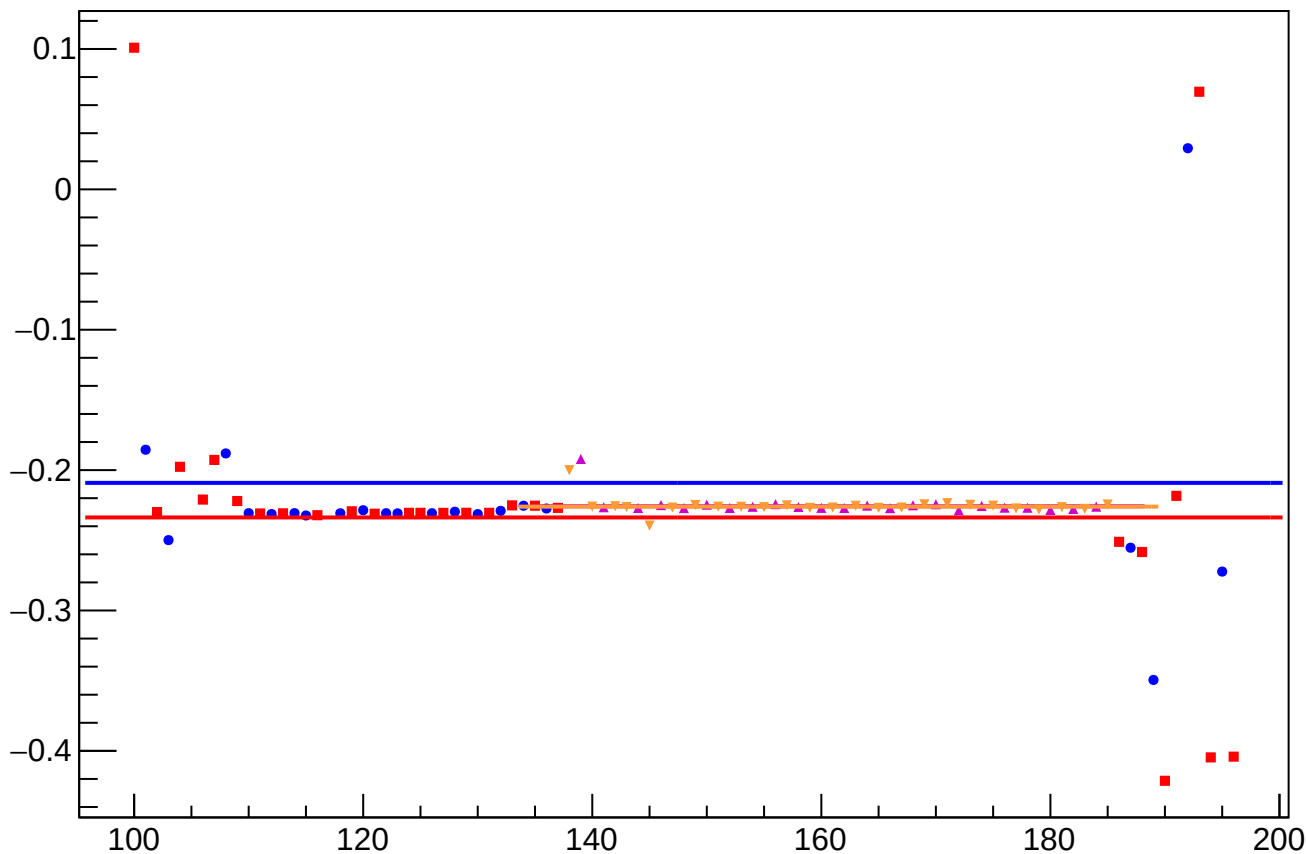
Right: 0.014+/-0.000 χ^2/NDF : 11222928.0/46

In: 0.010+/-0.000 χ^2/NDF : 5859613.5/43

Out: 0.011+/-0.000 χ^2/NDF : 8059038.4/50

All: 0.010+/-0.000 χ^2/NDF : 13927924.3/94

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.209 ± 0.000 $\chi^2/\text{NDF}: 1961491627.5/20$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21207366.3/24$

Right Out: -0.234 ± 0.000 $\chi^2/\text{NDF}: 3882913070.5/25$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 13717302.5/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 34951372.2/47$

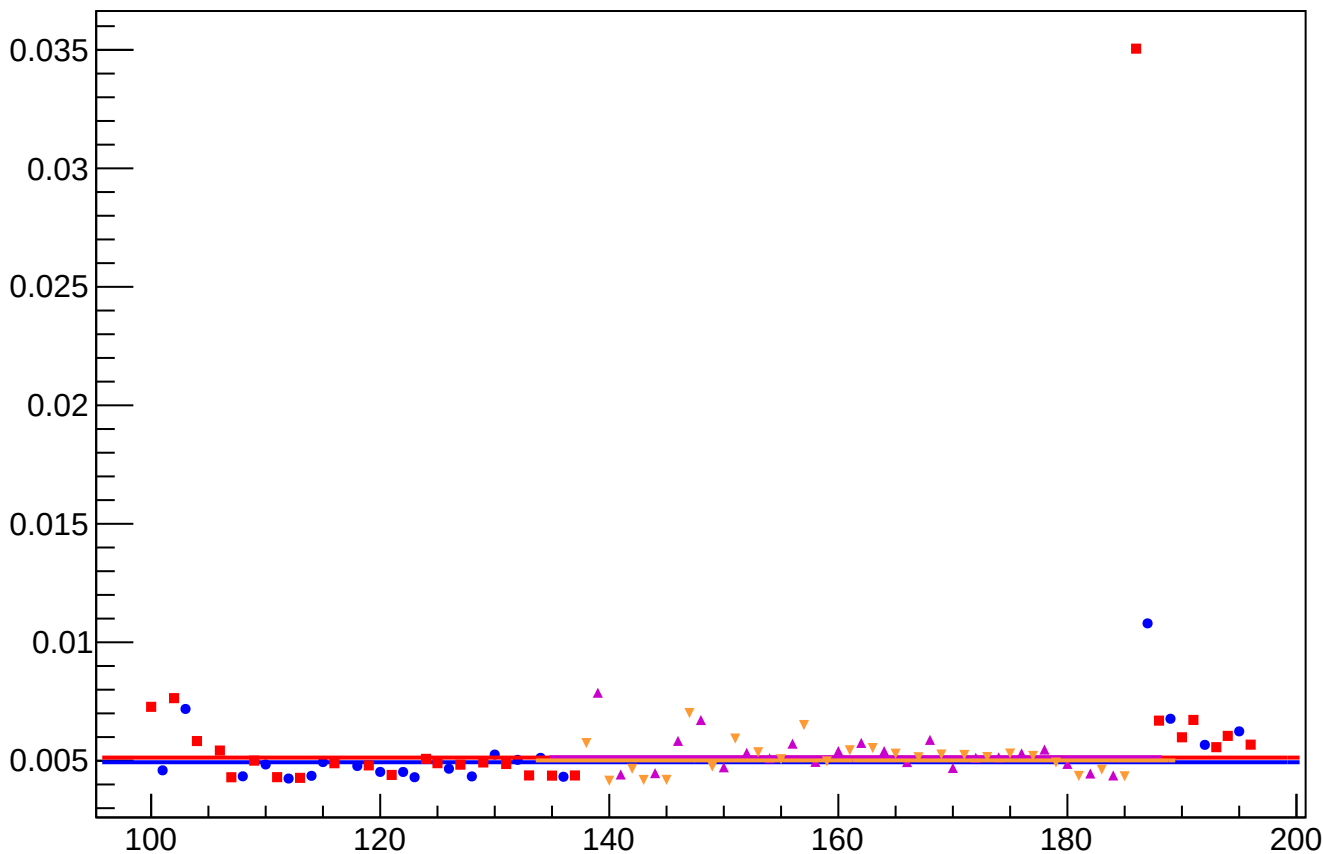
Right: -0.222 ± 0.000 $\chi^2/\text{NDF}: 5951378056.3/46$

In: -0.220 ± 0.000 $\chi^2/\text{NDF}: 2034897876.1/43$

Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 3918565481.3/50$

All: -0.225 ± 0.000 $\chi^2/\text{NDF}: 5992475246.5/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 457185.4/20

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1023662.6/25

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

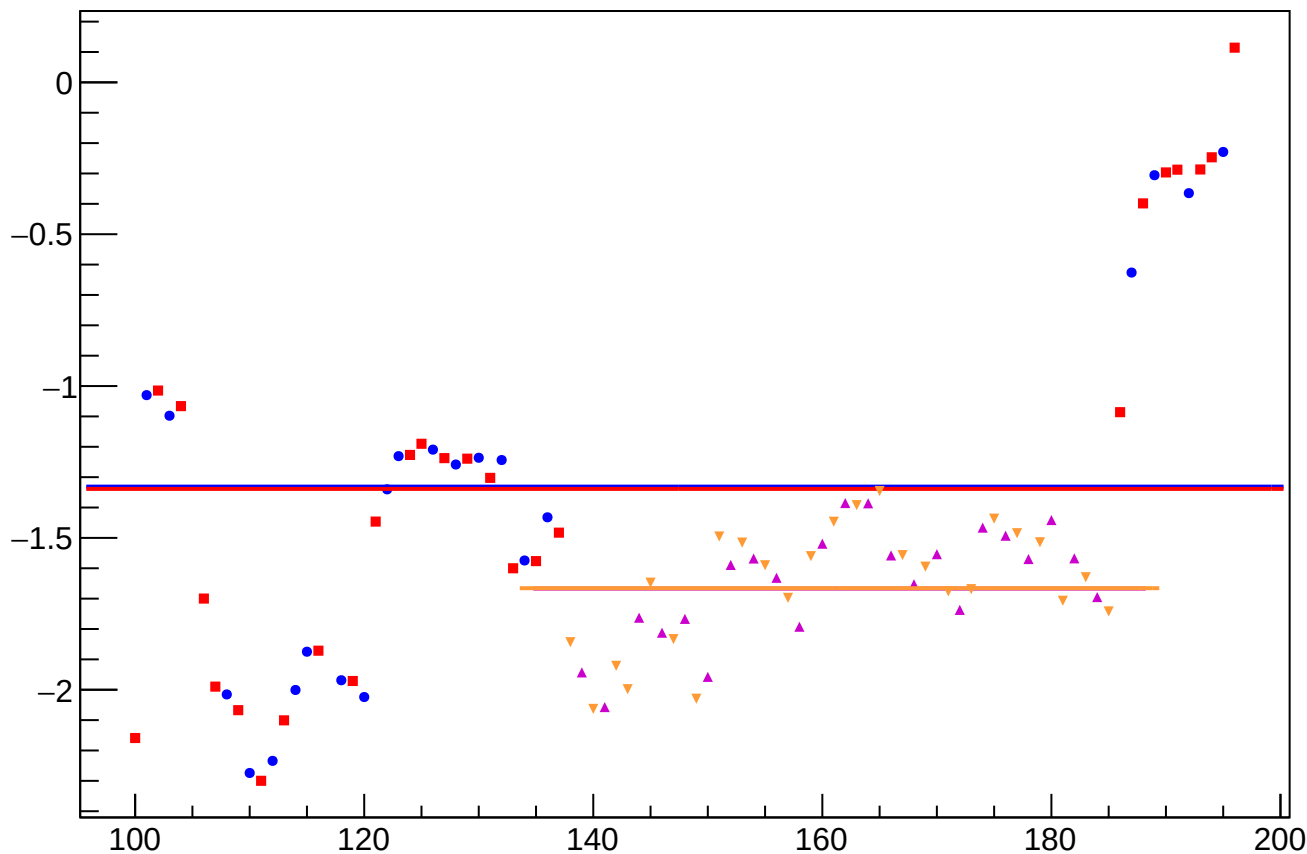
Right: 0.005+/-0.000 χ^2/NDF : 1494437.6/46

In: 0.005+/-0.000 χ^2/NDF : 980453.4/43

Out: 0.005+/-0.000 χ^2/NDF : 1563137.7/50

All: 0.005+/-0.000 χ^2/NDF : 2543909.7/94

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.331+/-0.000 χ^2/NDF : 49593184926.8/20

Left Out: -1.666+/-0.000 χ^2/NDF : 18368038680.8/24

Right Out: -1.339+/-0.000 χ^2/NDF : 89304131721.2/25

Left In: -1.667+/-0.000 χ^2/NDF : 14615453869.3/22

Left: -1.666+/-0.000 χ^2/NDF : 32983827631.4/47

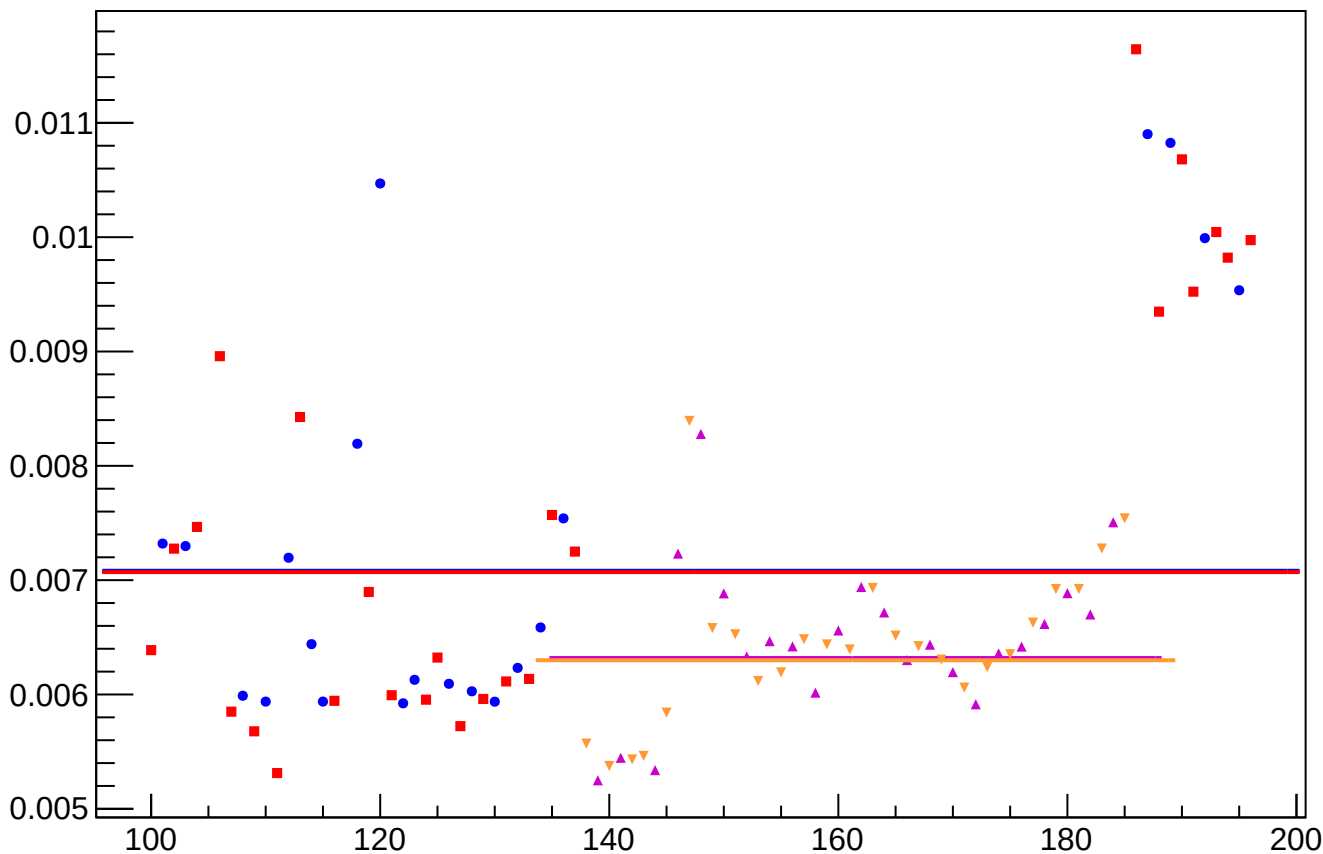
Right: -1.335+/-0.000 χ^2/NDF : 138902326732.7/46

In: -1.573+/-0.000 χ^2/NDF : 77248846993.7/43

Out: -1.562+/-0.000 χ^2/NDF : 122632969729.8/50

All: -1.567+/-0.000 χ^2/NDF : 199918314106.1

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 648259.8/20

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1102915.4/25

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

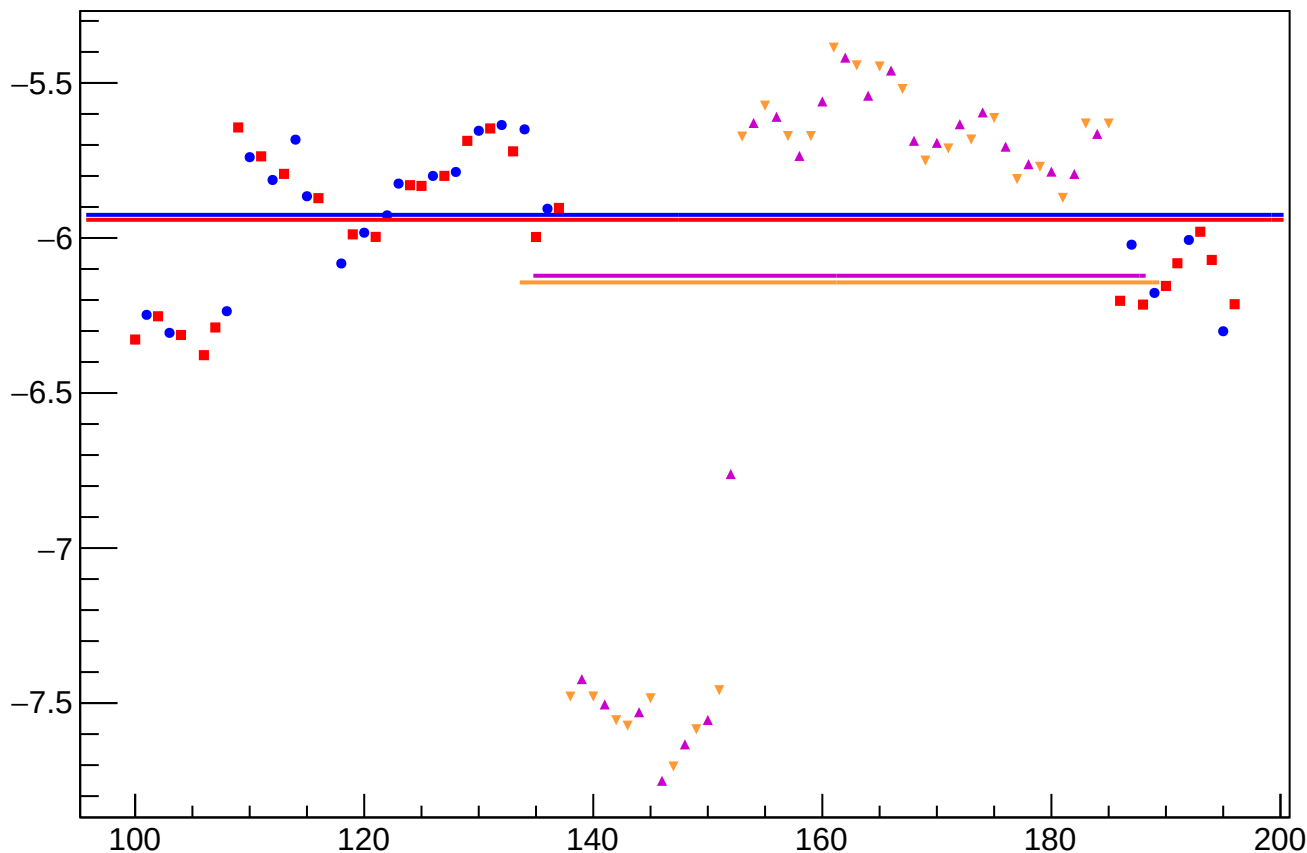
Right: 0.007+/-0.000 χ^2/NDF : 1751198.5/46

In: 0.007+/-0.000 χ^2/NDF :1117317.3/43

Out: 0.007+/-0.000 χ^2/NDF :1582040.0/50

All: 0.007+/-0.000 χ^2/NDF : 2699438.2/94

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.925+/-0.000 χ^2/NDF : 12079456395.4/20

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.941+/-0.000 χ^2/NDF : 14043358792.1/25

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

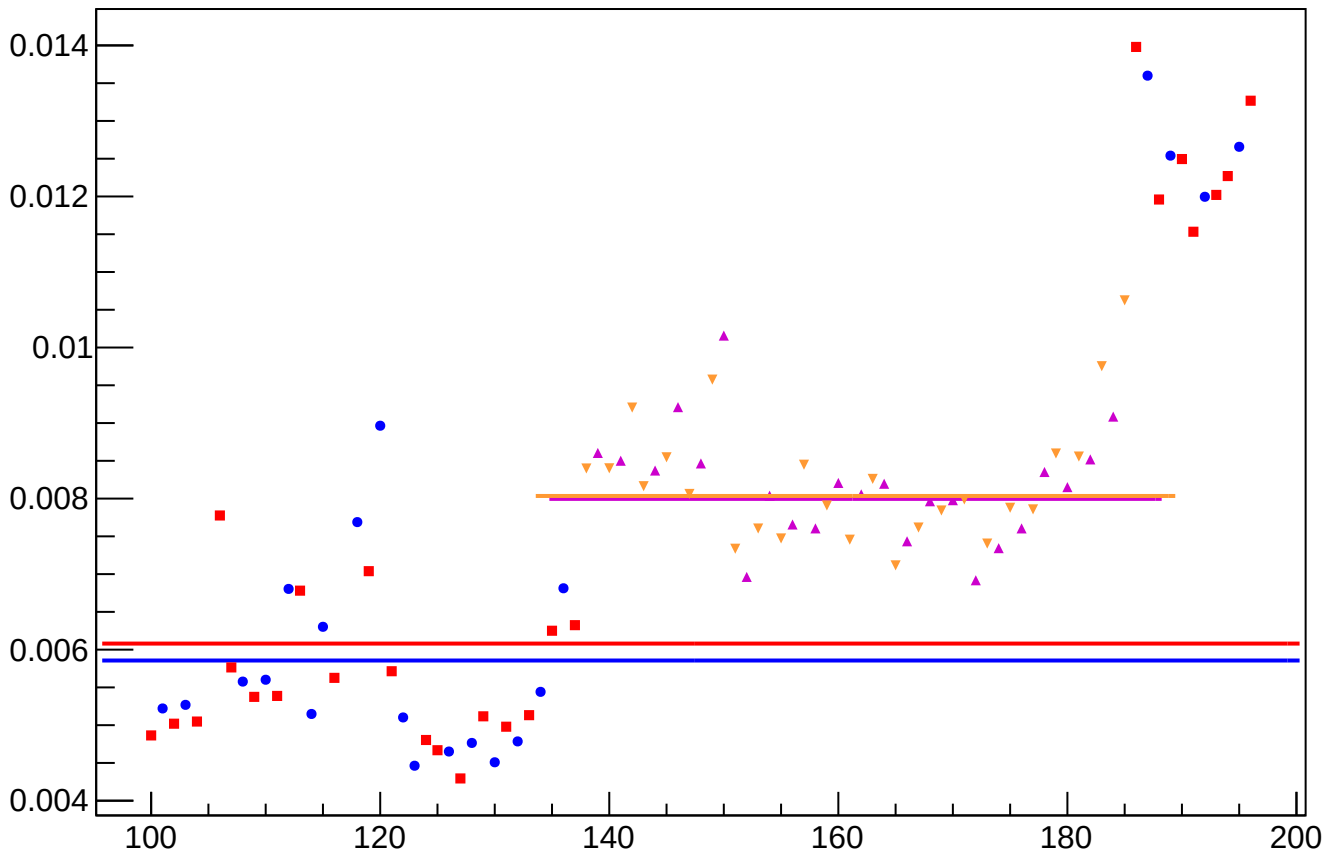
Right: -5.934+/-0.000 χ^2/NDF : 26152239083.6/46

In: -6.031+/-0.000 χ^2/NDF : 176444274142.2/43

Out: -6.044+/-0.000 χ^2/NDF : 204928643419.6/50

All: -6.038+/-0.000 χ^2/NDF : 381416592841.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1678849.6/20

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 2608394.2/25

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

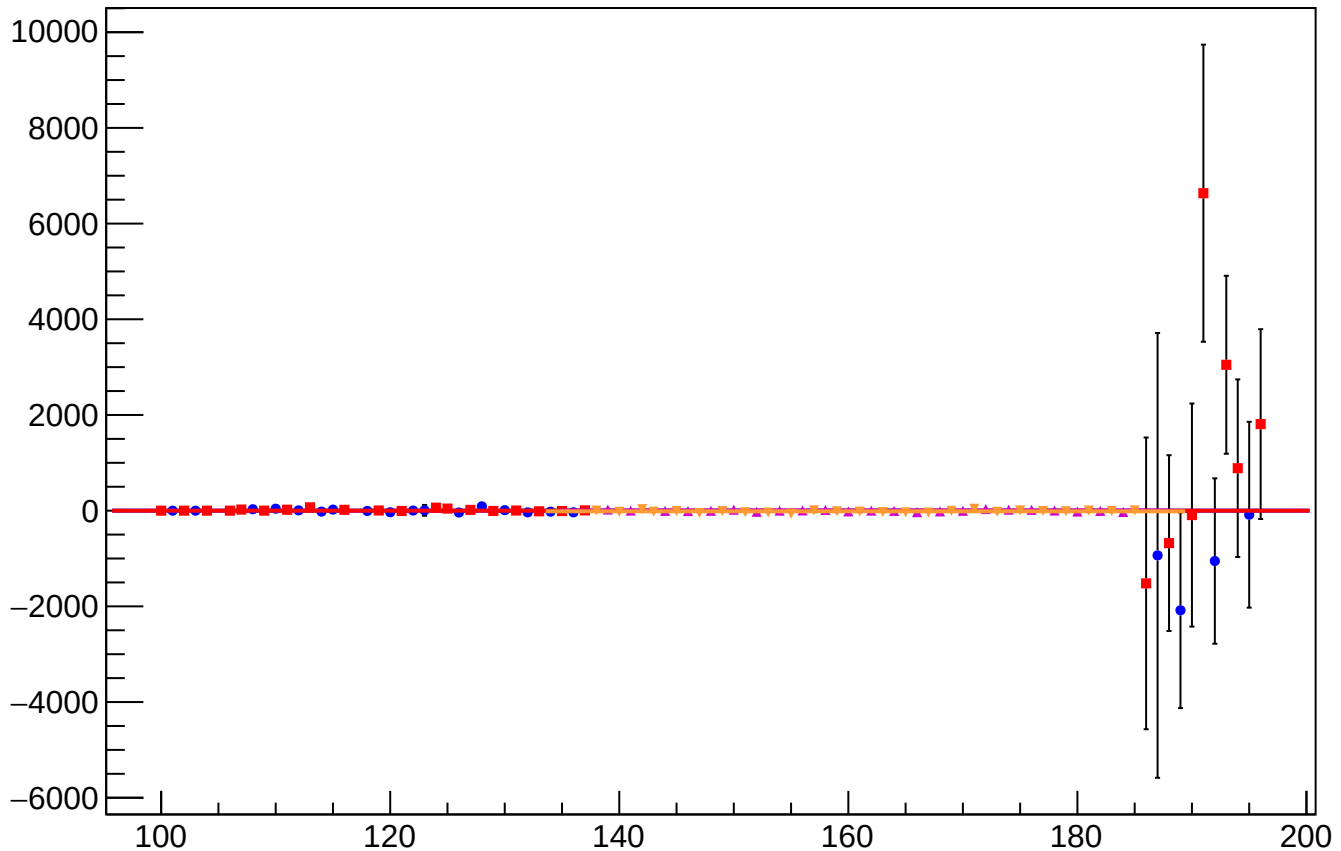
Right: 0.006+/-0.000 χ^2/NDF : 4298867.5/46

In: 0.007+/-0.000 χ^2/NDF :2957459.7/43

Out: 0.007+/-0.000 χ^2/NDF :3781984.7/50

All: 0.007+/-0.000 χ^2/NDF : 6741920.6/94

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 17.7/20

Left Out: -13.472 $\pm$ 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 23.6/25

Left In: 0.489 $\pm$ 2.905 χ^2/NDF : 28.7/22

Left: -6.758 $\pm$ 2.015 χ^2/NDF : 99.2/47

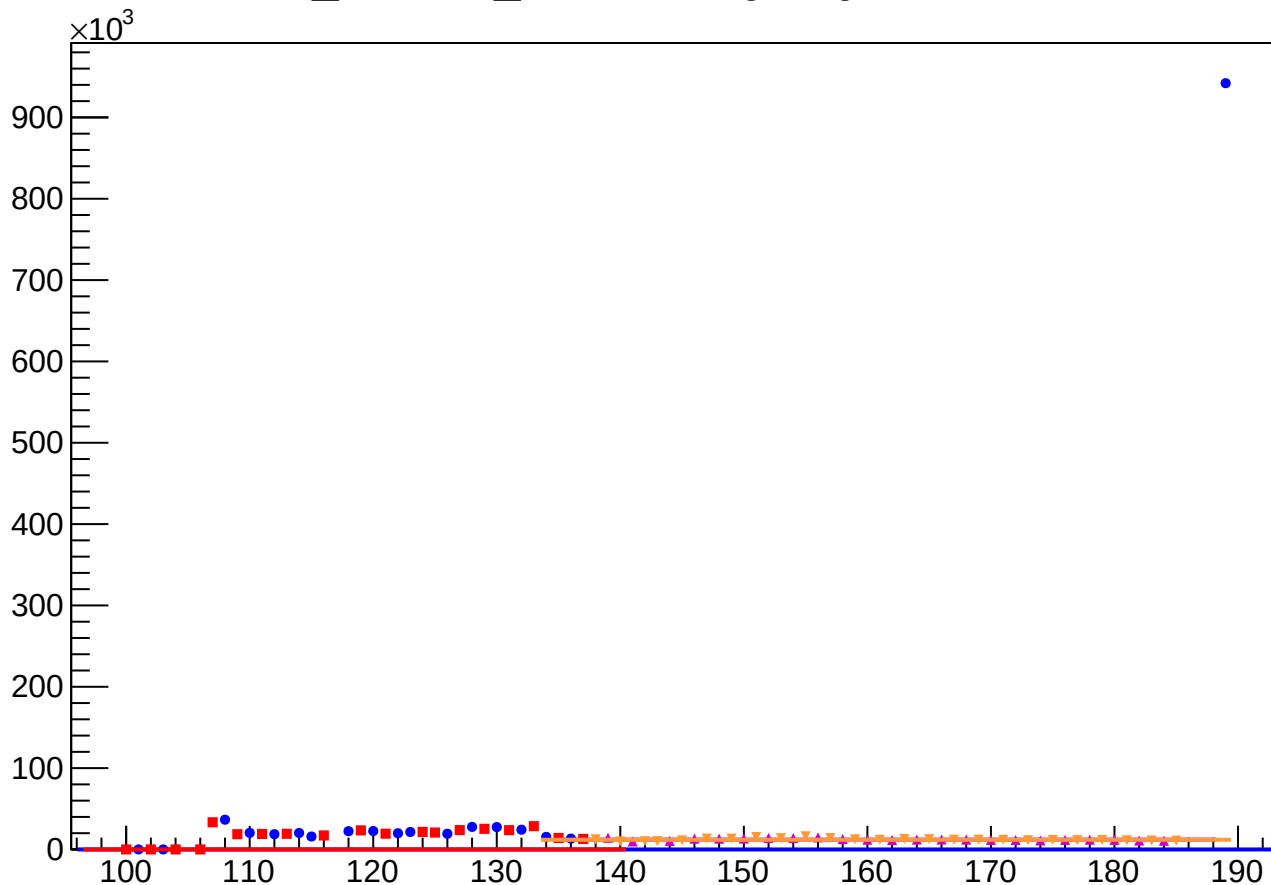
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 41.8/46

In: 0.013 $\pm$ 0.017 χ^2/NDF : 46.4/43

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 105.3/50

All: 0.004 $\pm$ 0.012 χ^2/NDF : 152.3/94

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

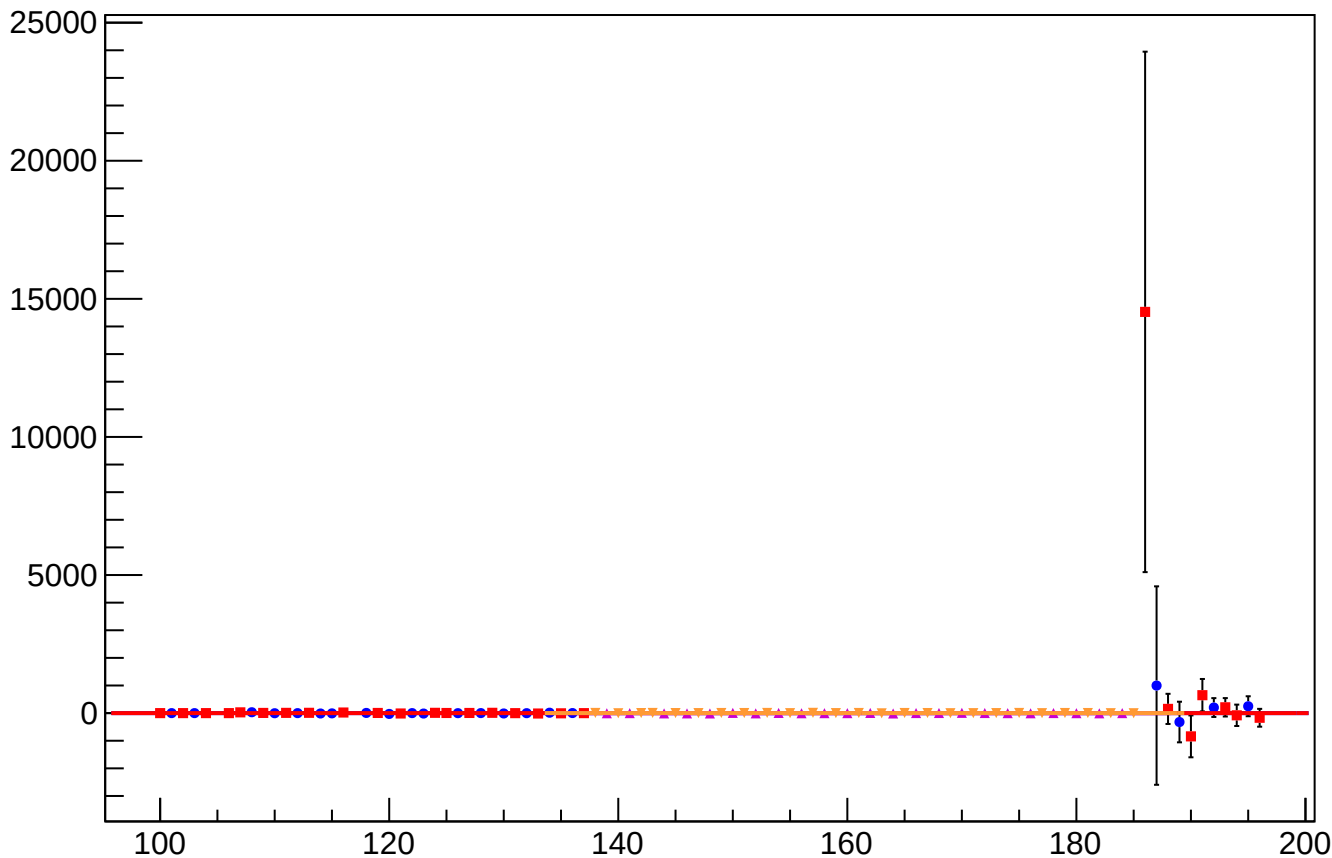
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

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 : 15.7/20

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.2/25

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

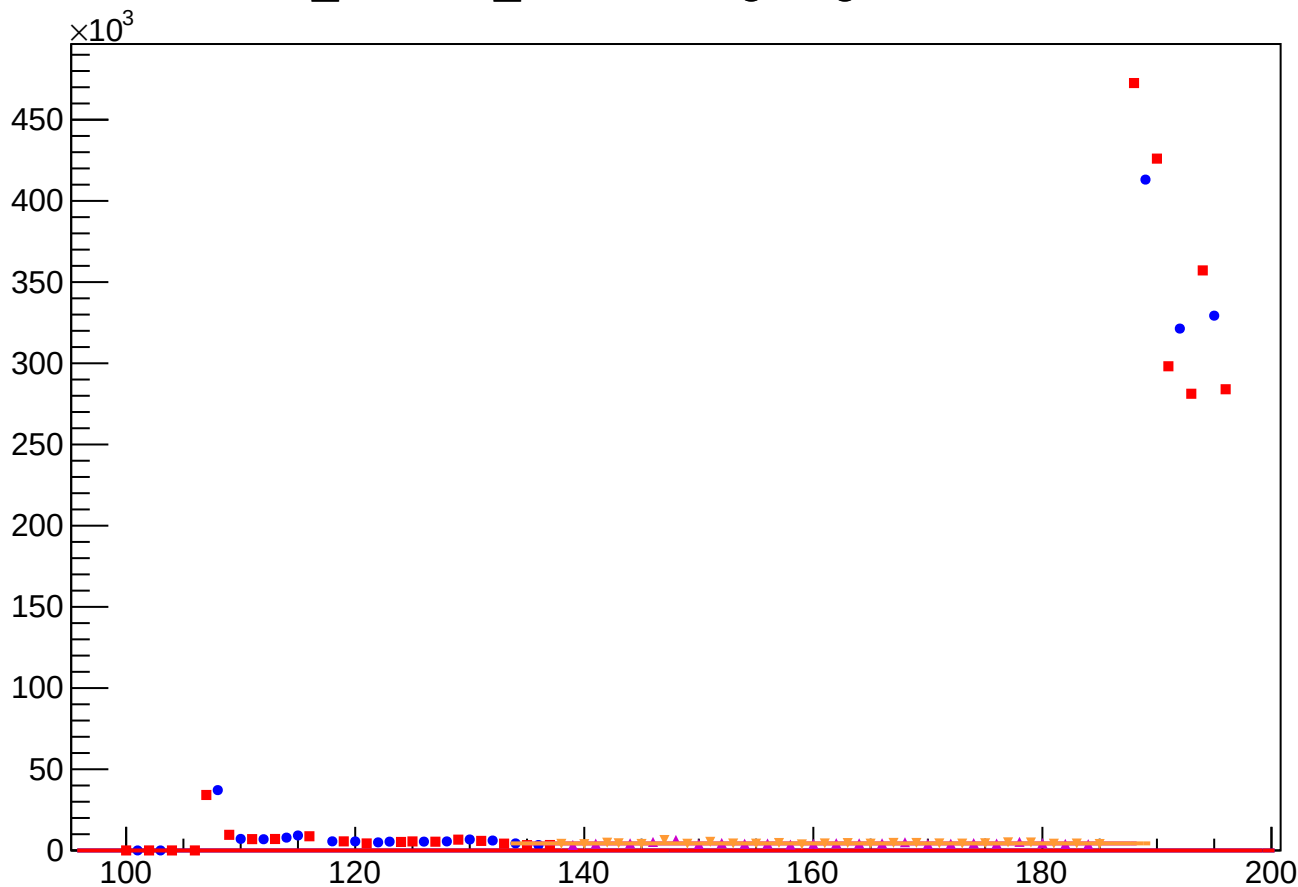
Right: -0.007 ± 0.006 χ^2/NDF : 41.4/46

In: 0.001 ± 0.009 χ^2/NDF : 52.0/43

Out: -0.014 ± 0.009 χ^2/NDF : 44.9/50

All: -0.007 ± 0.006 χ^2/NDF : 98.3/94

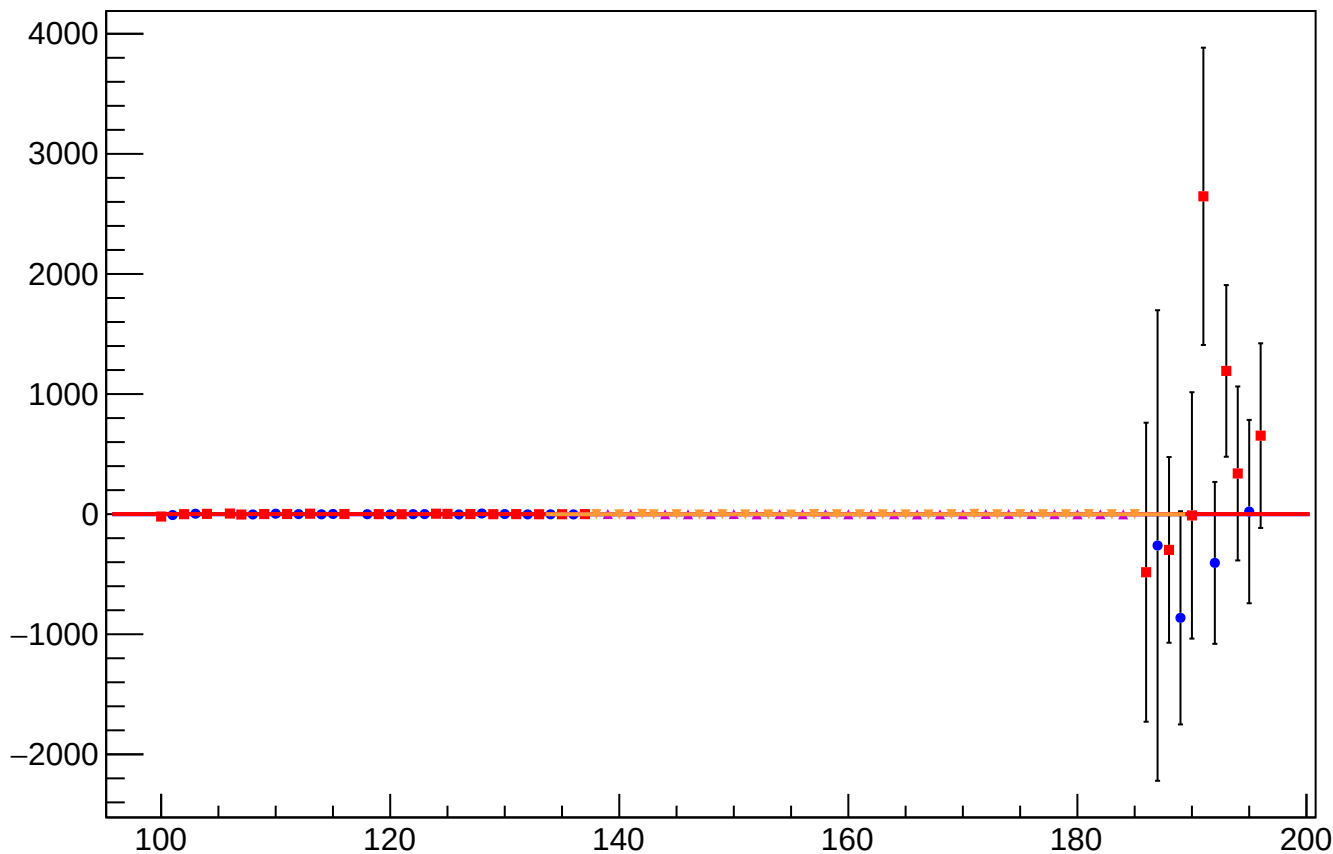
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 χ^2/NDF : 14970931.4/19
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.855 ± 0.006 χ^2/NDF : 18400719.5/24
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.894 ± 0.004 χ^2/NDF : 33371738.2/44
 In: 10.273 ± 0.007 χ^2/NDF : 49566955.9/42
 Out: 10.166 ± 0.006 χ^2/NDF : 54930439.1/49
 All: 10.216 ± 0.004 χ^2/NDF : 104497538.2/92

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.702 ± 0.485 $\chi^2/\text{NDF}: 23.8/20$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.762 ± 0.502 $\chi^2/\text{NDF}: 20.4/25$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

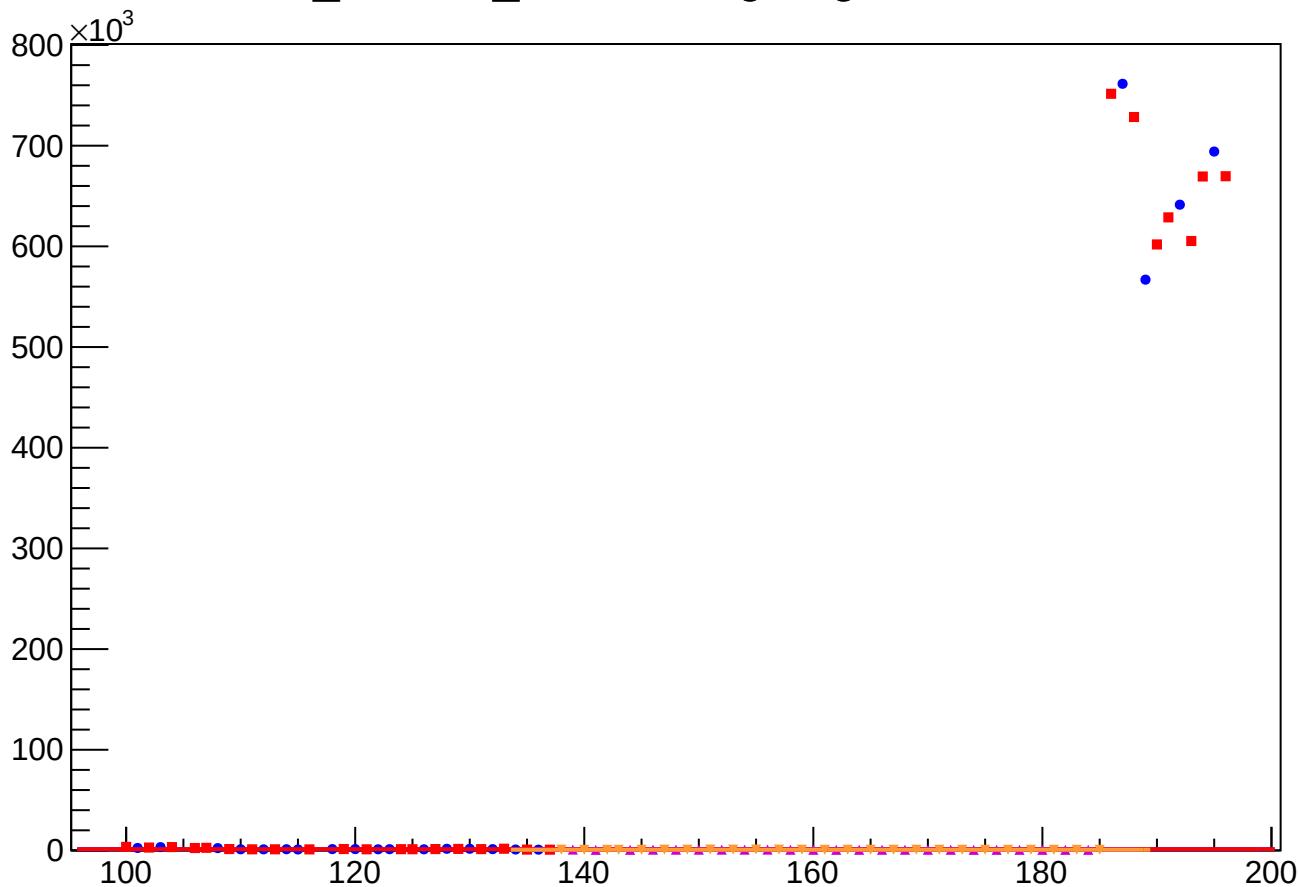
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 48.6/46$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 55.0/43$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 87.2/50$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 148.6/94$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1165.037 $\pm$ 0.343 χ^2 /NDF: 6145206.7/20

Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF:392521.4/24

Right Out: 1250.844 $\pm$ 0.355 χ^2 /NDF: 9934265.2/25

Left In: 706.950 $\pm$ 0.120 χ^2 /NDF:338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47

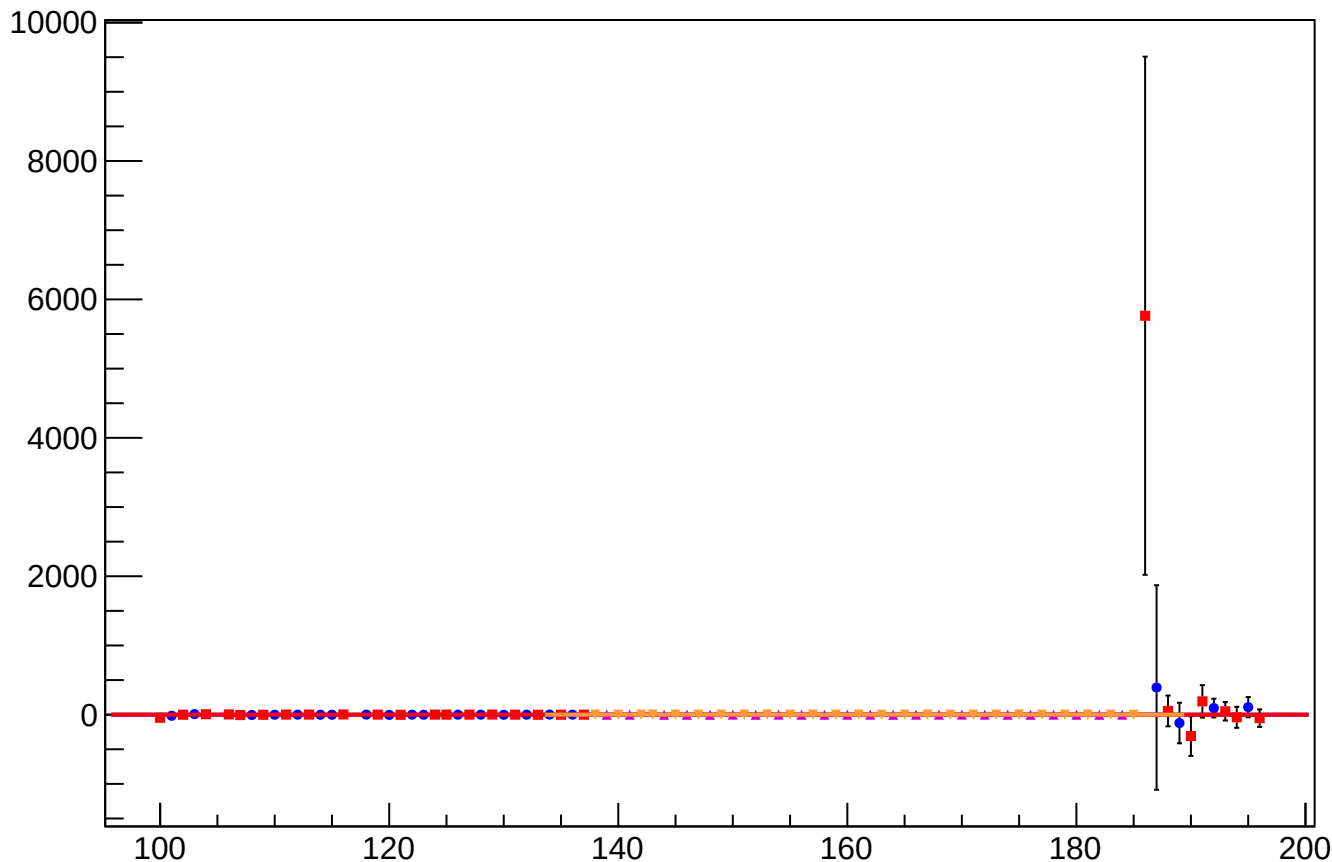
Right: 1206.456 $\pm$ 0.247 χ^2 /NDF: 16109688.4/46

In: 757.135 $\pm$ 0.114 χ^2 /NDF:8072030.1/43

Out: 754.000 $\pm$ 0.110 χ^2 /NDF:12494893.7/50

All: 755.524 $\pm$ 0.079 χ^2 /NDF: 20567315.8/94

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 ± 0.271 χ^2/NDF : 22.2/20

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 25.3/25

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

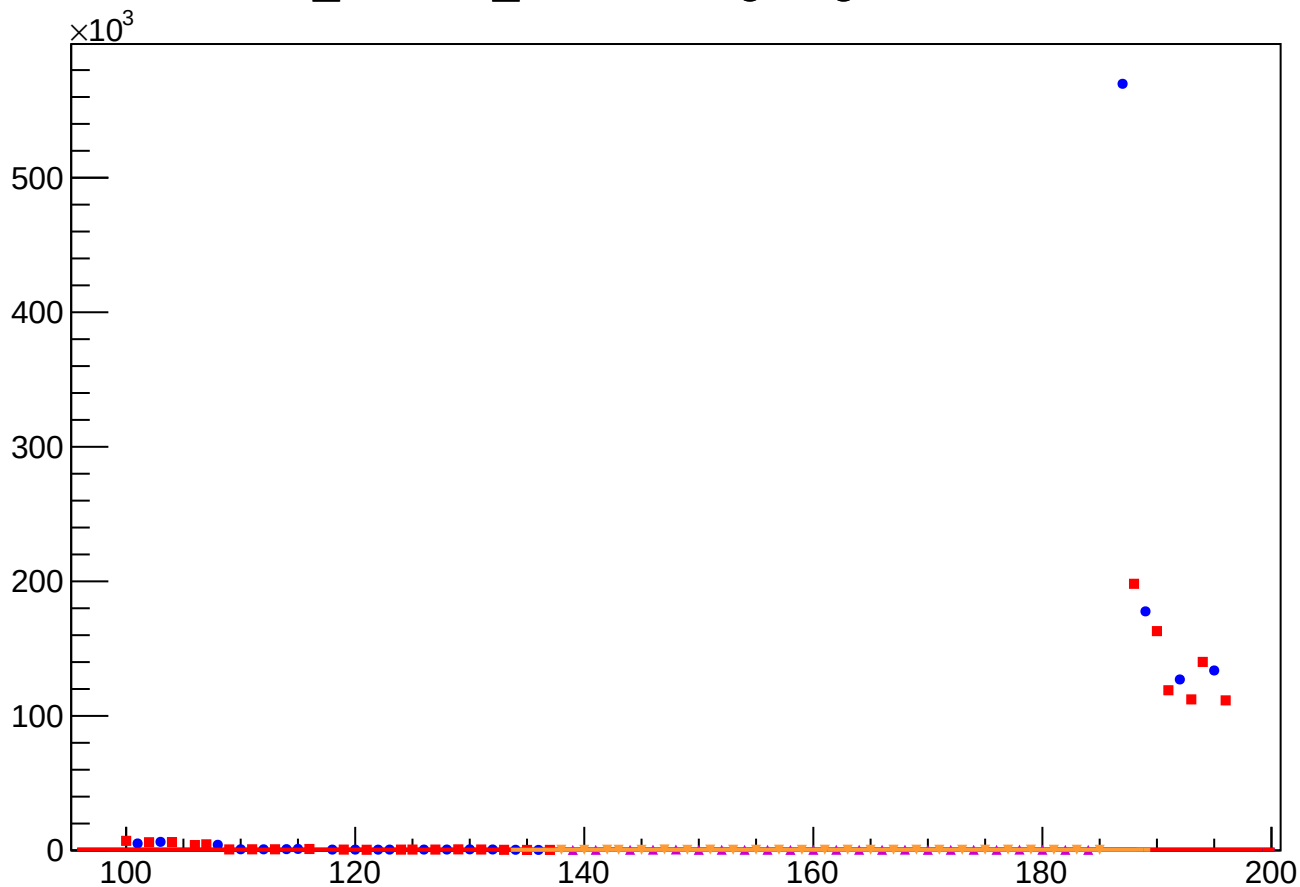
Right: -0.154 ± 0.189 χ^2/NDF : 47.8/46

In: -0.105 ± 0.114 χ^2/NDF : 57.2/43

Out: 0.152 ± 0.111 χ^2/NDF : 45.6/50

All: 0.026 ± 0.080 χ^2/NDF : 105.4/94

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.720 $\pm$ 0.191 χ^2/NDF : 7565267.6/20

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 601.635 $\pm$ 0.187 χ^2/NDF : 10902382.3/24

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

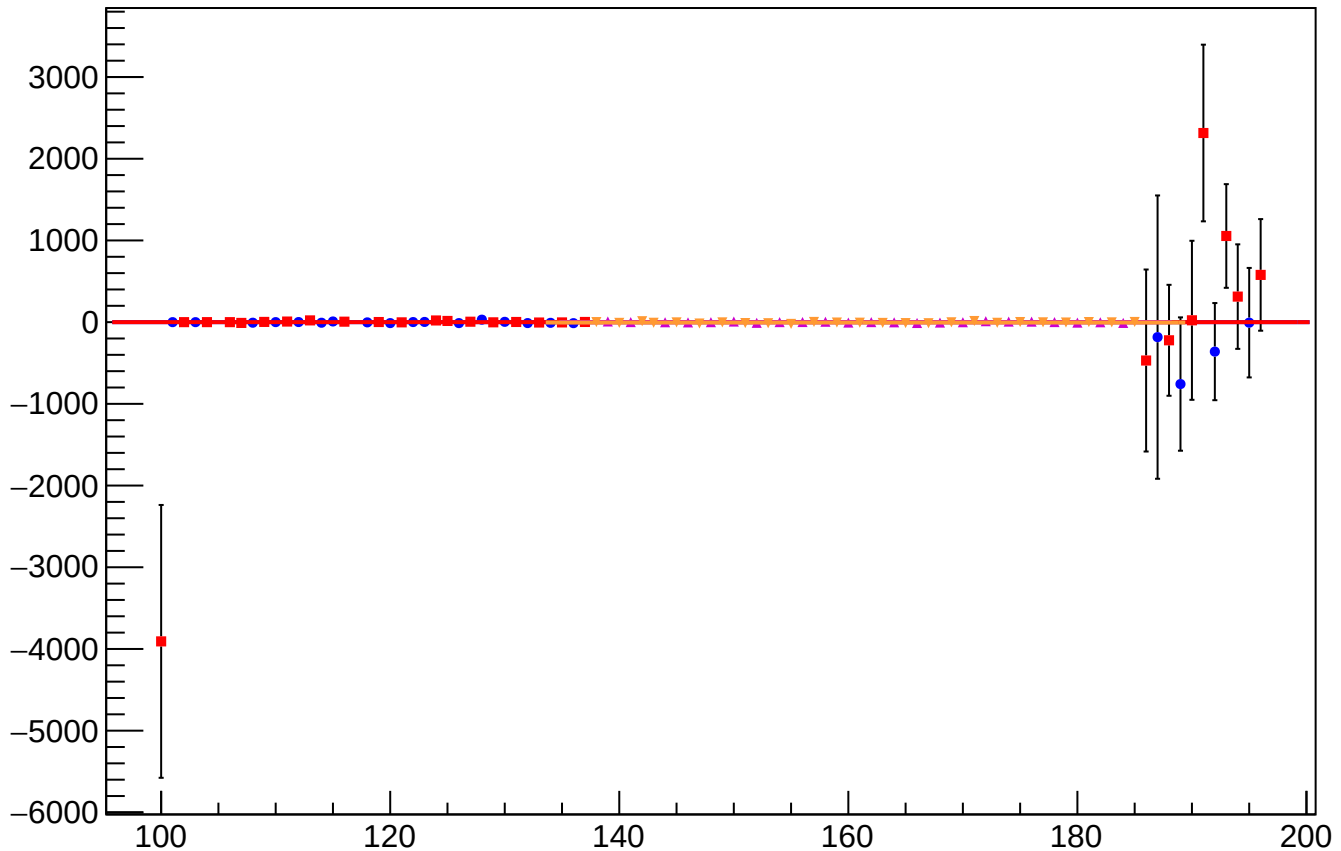
Right: 605.591 $\pm$ 0.134 χ^2/NDF : 18468561.9/45

In: 535.810 $\pm$ 0.081 χ^2/NDF : 8191365.3/43

Out: 536.374 $\pm$ 0.079 χ^2/NDF : 11381363.5/49

All: 536.098 $\pm$ 0.056 χ^2/NDF : 19572754.0/93

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.9/20

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 25.4/25

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

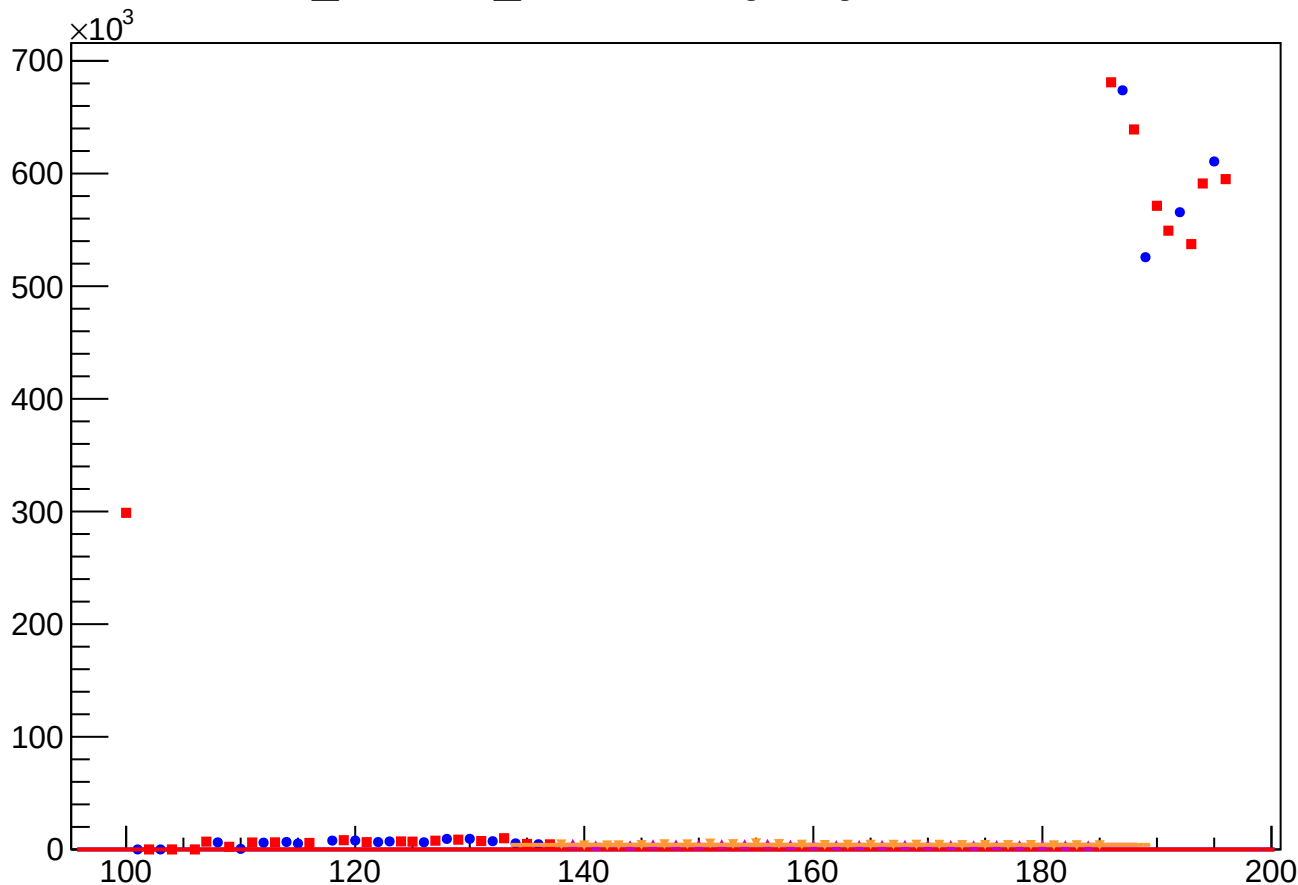
Right: 0.004 ± 0.014 χ^2/NDF : 45.1/46

In: -0.022 ± 0.021 χ^2/NDF : 46.2/43

Out: 0.025 ± 0.020 χ^2/NDF : 105.8/50

All: 0.003 ± 0.014 χ^2/NDF : 154.6/94

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.337+/-0.015 χ^2 /NDF: 14919743.5/20

Left Out: 4074.257+/-0.676 χ^2 /NDF:416916.0/24

Right Out: 17.270+/-0.014 χ^2 /NDF: 19124082.2/25

Left In: 4113.744+/-0.700 χ^2 /NDF:354965.8/22

Left: 4093.298+/-0.486 χ^2 /NDF: 773528.6/47

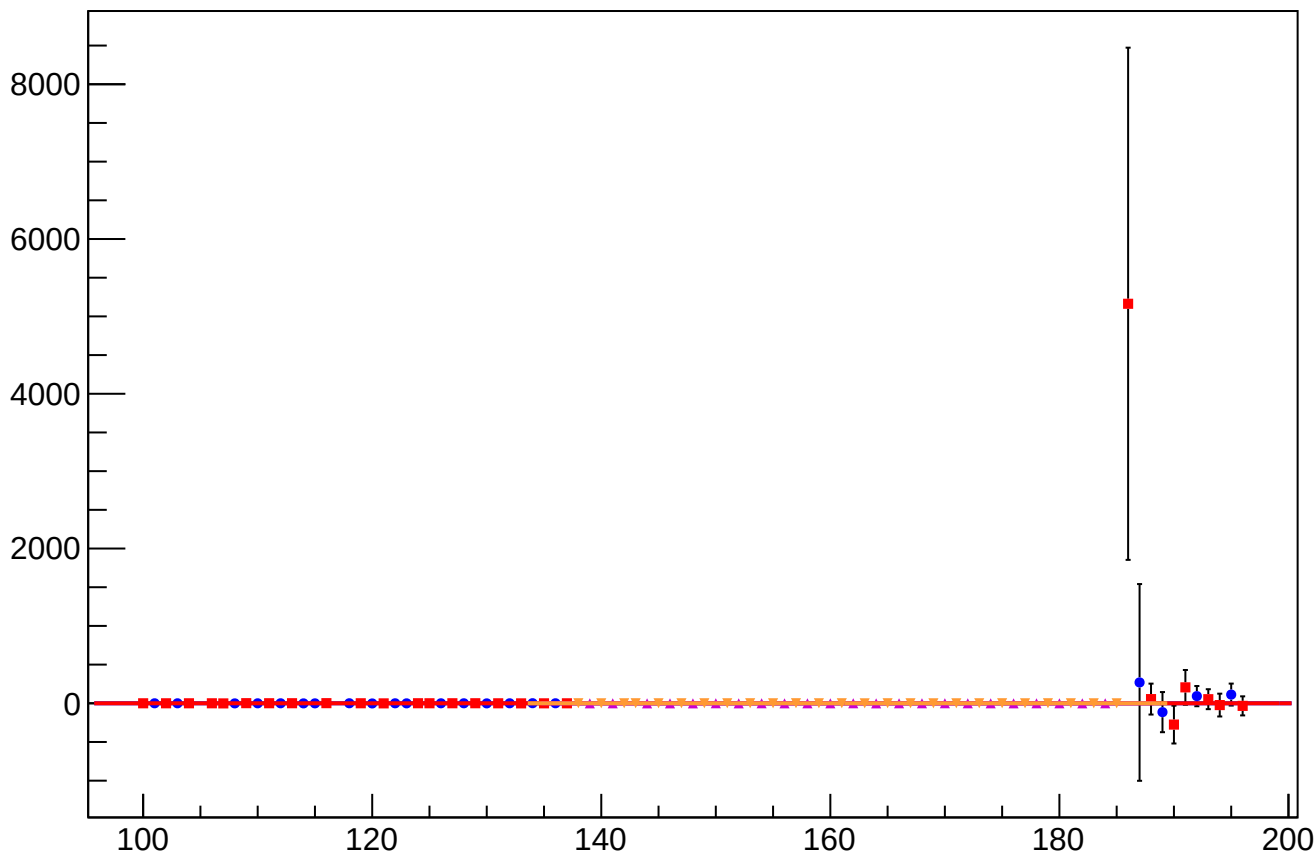
Right: 17.302+/-0.010 χ^2 /NDF: 34043836.7/46

In: 19.143+/-0.015 χ^2 /NDF:49488963.2/43

Out: 19.007+/-0.014 χ^2 /NDF:55577028.8/50

All: 19.071+/-0.010 χ^2 /NDF: 105066037.1/94

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 16.7/20

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 23.0/25

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

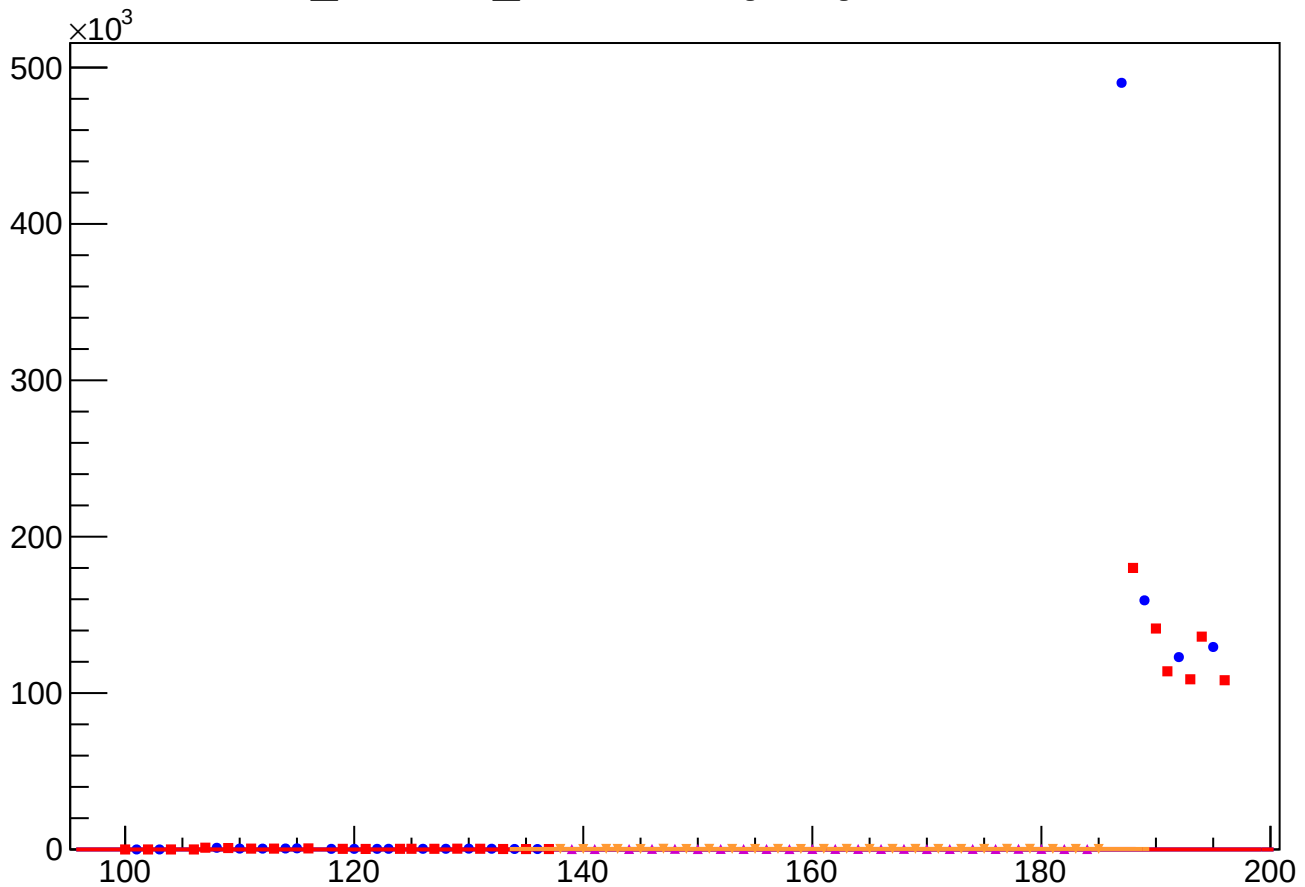
Right: -0.000 ± 0.001 χ^2/NDF : 39.8/46

In: 0.000 ± 0.002 χ^2/NDF : 52.4/43

Out: -0.001 ± 0.002 χ^2/NDF : 43.7/50

All: -0.000 ± 0.001 χ^2/NDF : 96.2/94

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 15354454.8/20

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 18169859.5/24

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

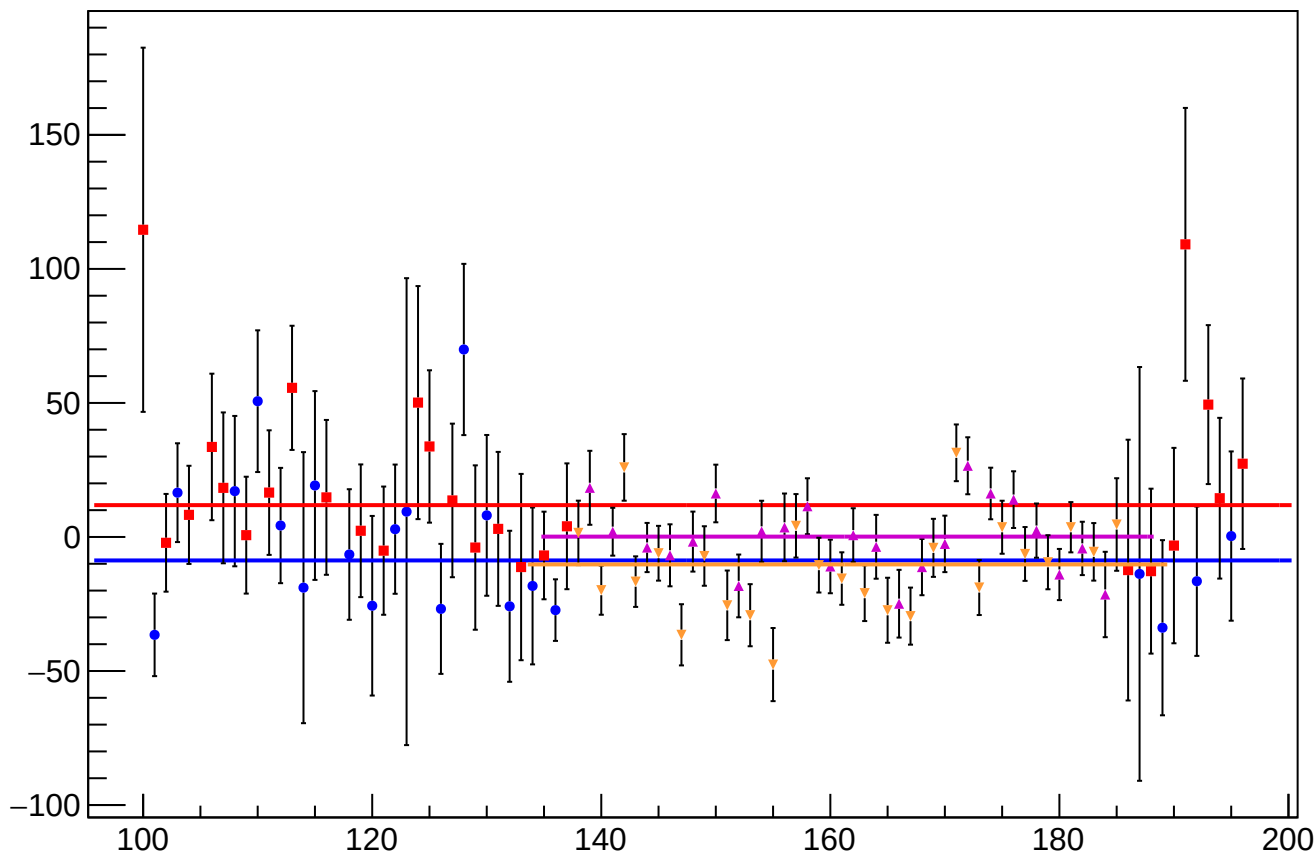
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 33524541.9/45

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 49757906.7/43

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 54477689.0/49

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 104235734.0/93

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.754 ± 5.357 $\chi^2/\text{NDF}: 23.4/20$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 11.877 ± 5.219 $\chi^2/\text{NDF}: 18.3/25$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

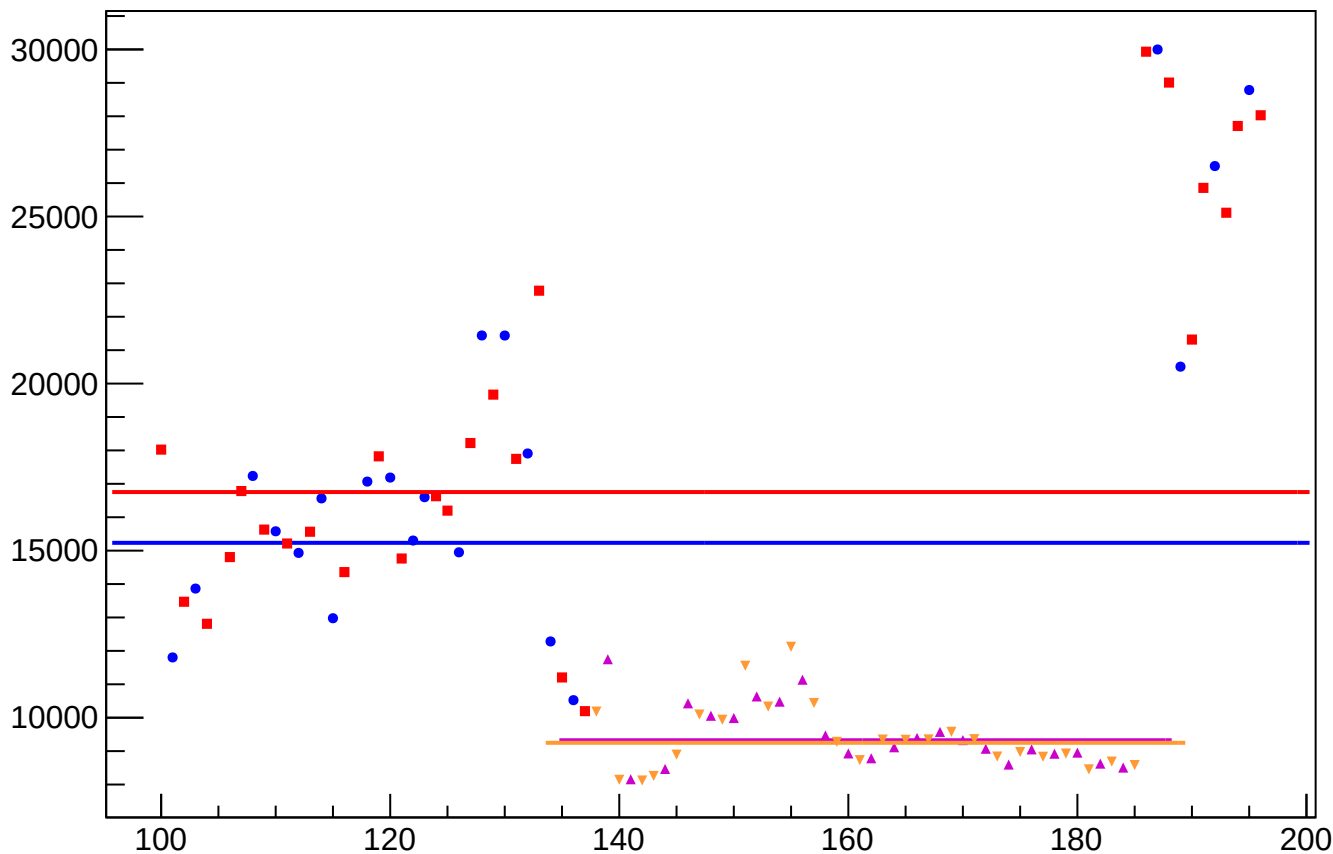
Right: 1.831 ± 3.738 $\chi^2/\text{NDF}: 49.3/46$

In: -1.195 ± 2.068 $\chi^2/\text{NDF}: 55.5/43$

Out: -6.984 ± 2.001 $\chi^2/\text{NDF}: 91.6/50$

All: -4.185 ± 1.438 $\chi^2/\text{NDF}: 151.2/94$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15234.124+/-3.788 χ^2/NDF : 1506523.2/20

Left Out: 9249.358+/-1.532 χ^2/NDF :332003.4/24

Right Out: 16753.302+/-3.690 χ^2/NDF : 1929751.4/25

Left In: 9325.112+/-1.585 χ^2/NDF :280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

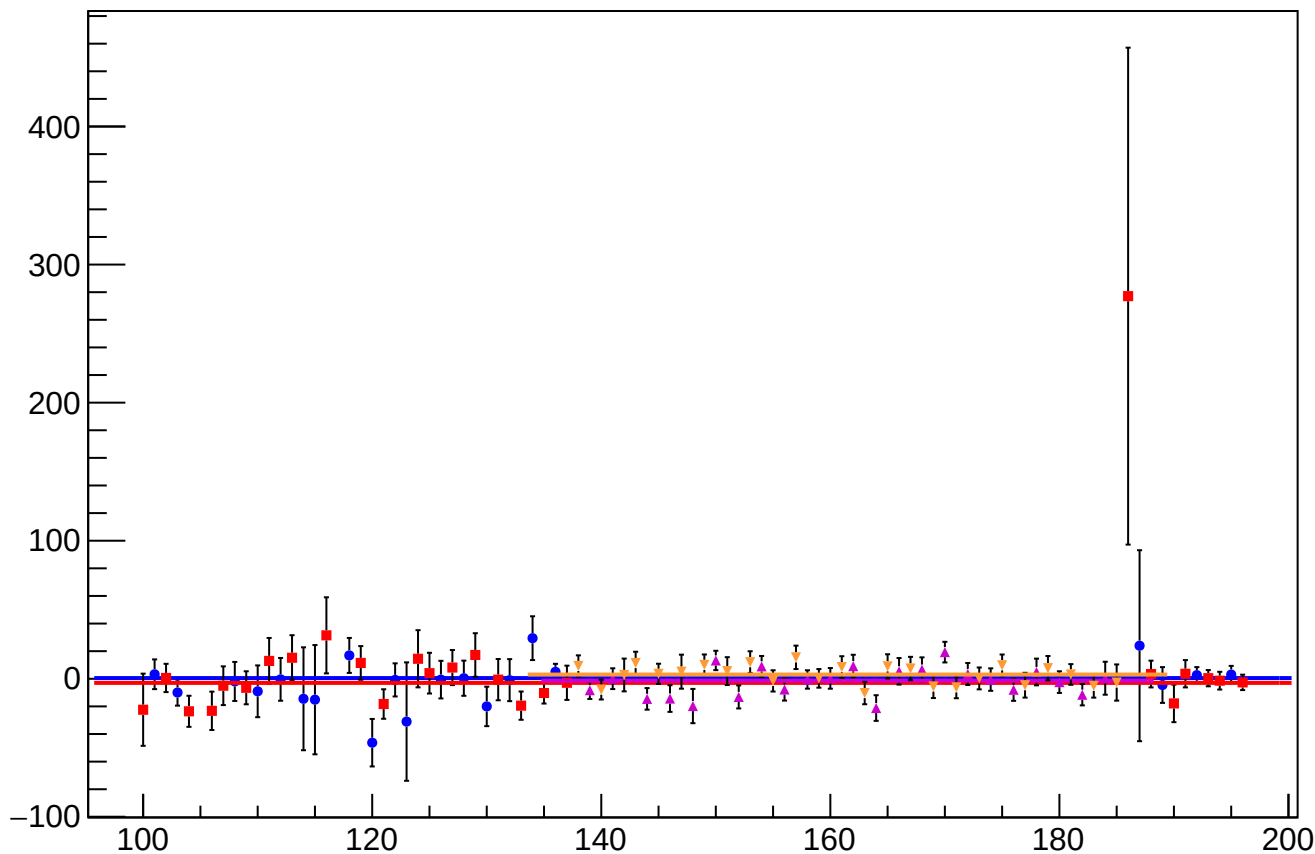
Right: 16013.565+/-2.643 χ^2/NDF : 3518802.3/46

In: 10206.027+/-1.463 χ^2/NDF :3858197.8/43

Out: 10352.633+/-1.415 χ^2/NDF :5788943.3/50

All: 10281.754+/-1.017 χ^2/NDF : 9652331.4/95

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.515 $\pm$ 2.457 χ^2/NDF : 18.1/20

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -2.967 $\pm$ 2.100 χ^2/NDF : 25.2/25

Left In: -1.394 $\pm$ 1.693 χ^2/NDF : 35.4/22

Left: 0.879 $\pm$ 1.185 χ^2/NDF : 57.2/47

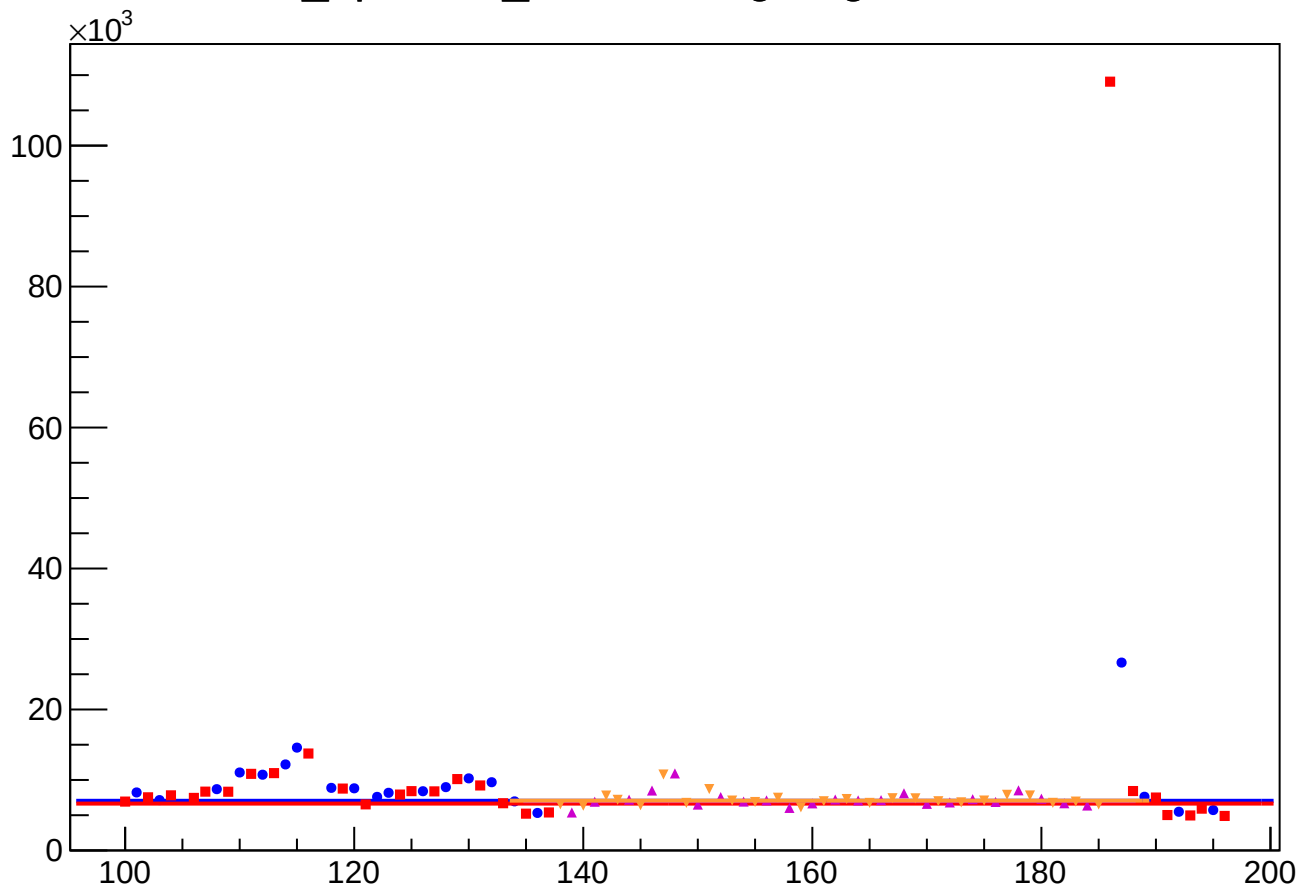
Right: -1.497 $\pm$ 1.596 χ^2/NDF : 44.5/46

In: -0.779 $\pm$ 1.394 χ^2/NDF : 53.9/43

Out: 0.744 $\pm$ 1.302 χ^2/NDF : 48.6/50

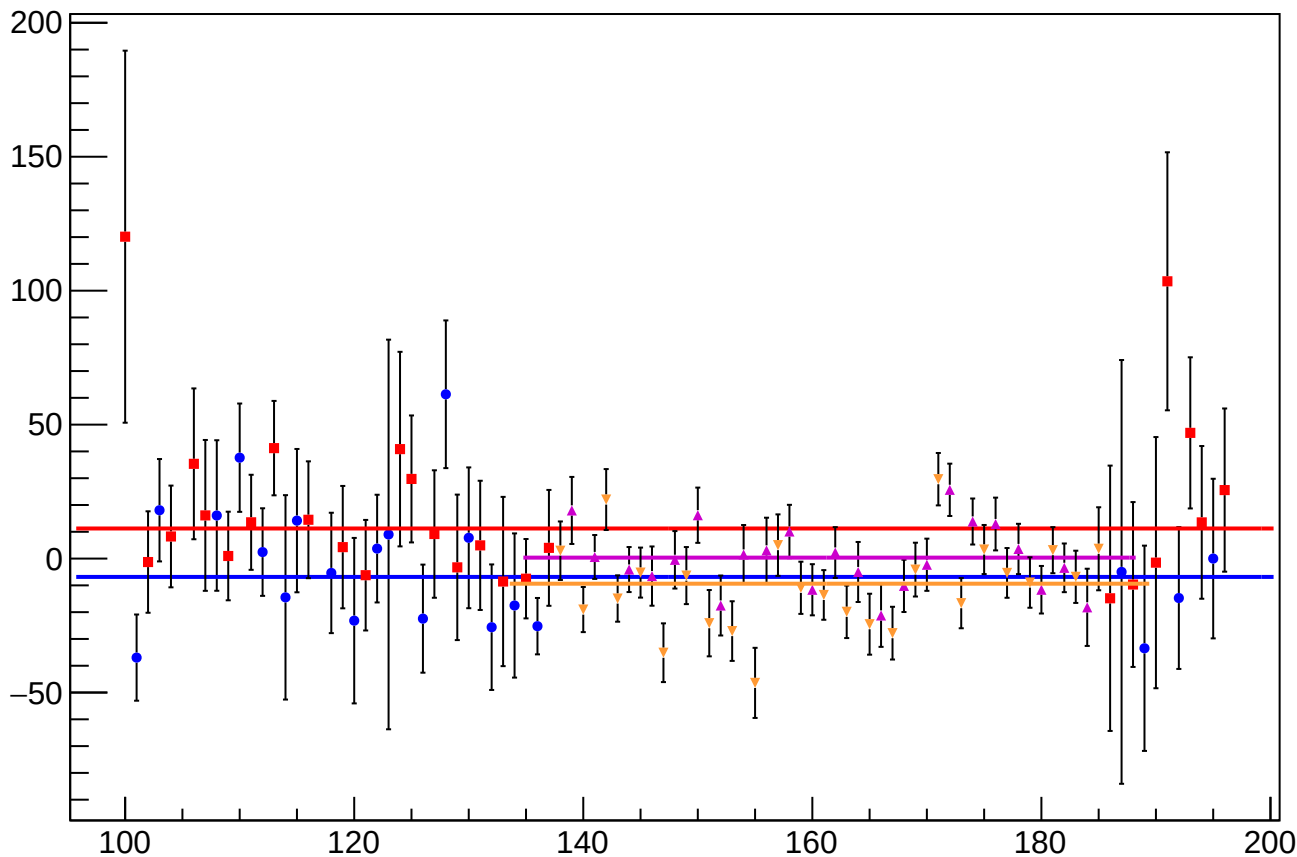
All: 0.035 $\pm$ 0.951 χ^2/NDF : 103.1/94

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7044.627 $\pm$ 1.737	χ^2/NDF : 1234287.1/20	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 6815.234 $\pm$ 1.129	χ^2/NDF : 3324854.8/46
Right Out: 6647.671 $\pm$ 1.485	χ^2/NDF : 2060389.5/25	In: 7014.733 $\pm$ 0.986	χ^2/NDF : 1784753.3/43
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 6905.733 $\pm$ 0.920	χ^2/NDF : 2496915.7/50
		All: 6956.497 $\pm$ 0.673	χ^2/NDF : 4288201.2/94

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.847 $\pm$ 4.840 χ^2/NDF : 23.8/20

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 11.232 $\pm$ 4.677 χ^2/NDF : 17.9/25

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

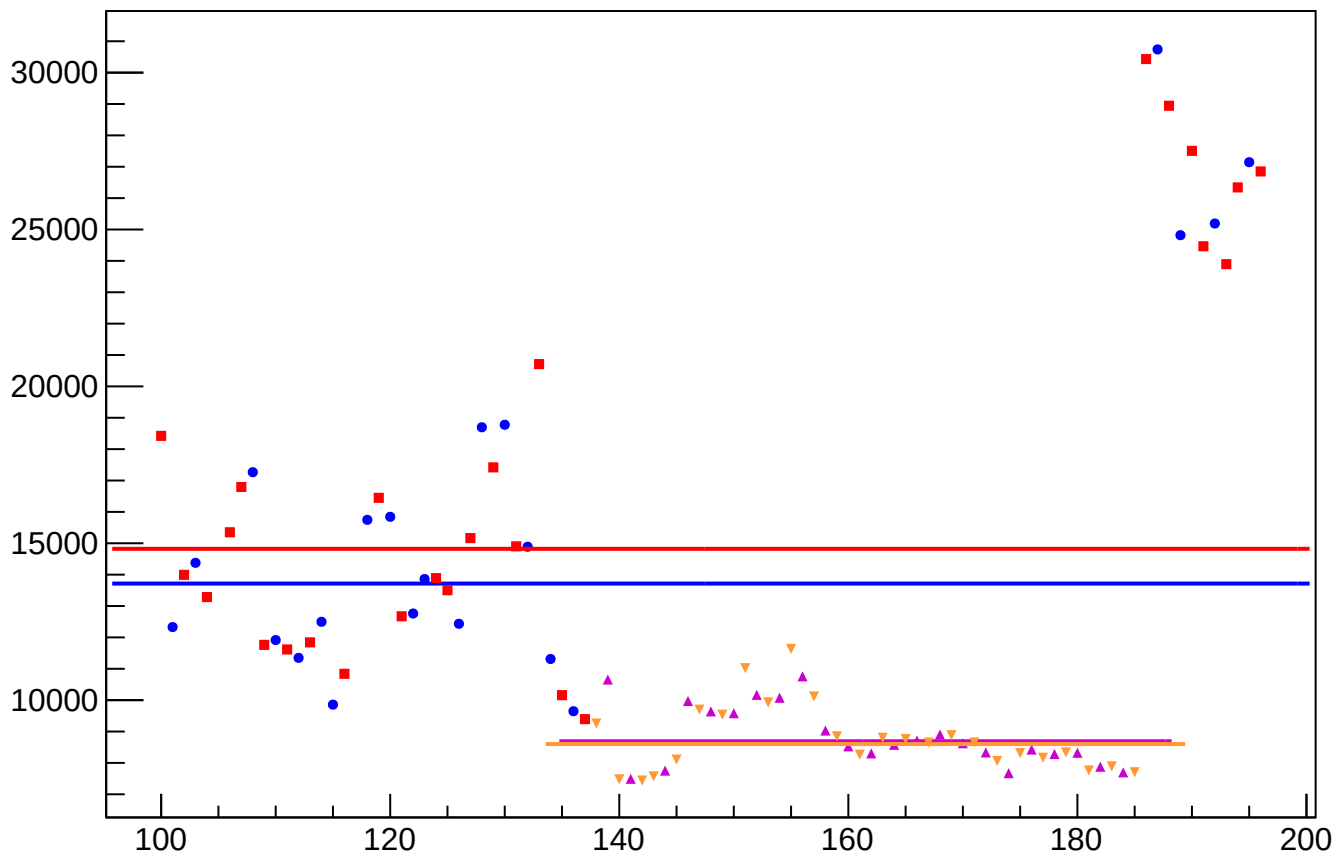
Right: 2.502 $\pm$ 3.364 χ^2/NDF : 48.9/46

In: -0.780 $\pm$ 1.920 χ^2/NDF : 55.3/43

Out: -6.143 $\pm$ 1.853 χ^2/NDF : 92.6/50

All: -3.558 $\pm$ 1.333 χ^2/NDF : 152.0/94

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13715.912 ± 3.423 $\chi^2/\text{NDF}: 1691150.5/20$

Left Out: 8600.457 ± 1.427 $\chi^2/\text{NDF}: 438229.4/24$

Right Out: 14823.558 ± 3.307 $\chi^2/\text{NDF}: 2434269.5/25$

Left In: 8690.209 ± 1.479 $\chi^2/\text{NDF}: 370834.1/22$

Left: 8643.707 ± 1.027 $\chi^2/\text{NDF}: 810970.4/47$

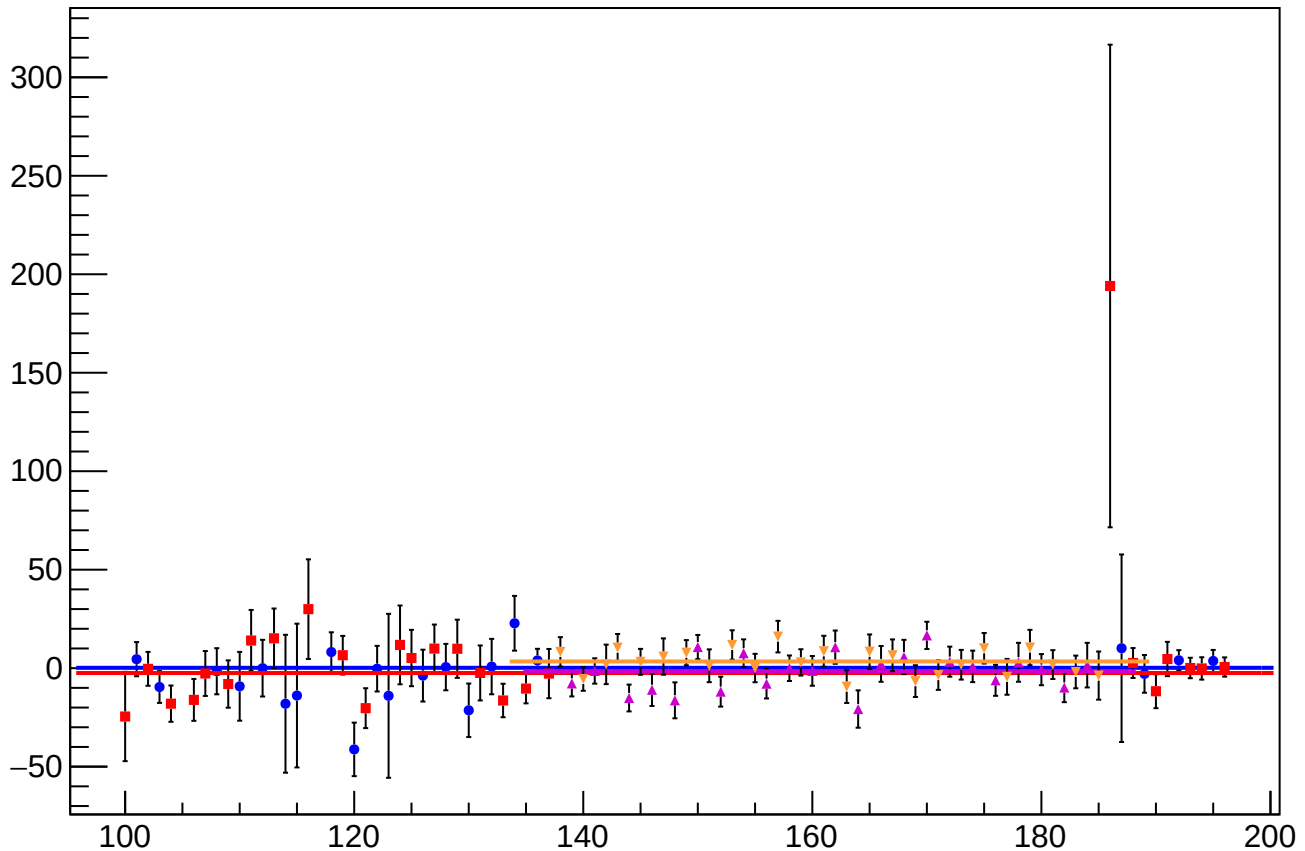
Right: 14288.700 ± 2.378 $\chi^2/\text{NDF}: 4179578.5/46$

In: 9481.366 ± 1.358 $\chi^2/\text{NDF}: 3878651.3/43$

Out: 9576.841 ± 1.310 $\chi^2/\text{NDF}: 5857344.7/50$

All: 9530.818 ± 0.943 $\chi^2/\text{NDF}: 9738556.3/94$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.186 $\pm$ 2.194 χ^2/NDF : 19.3/20

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -2.462 $\pm$ 1.835 χ^2/NDF : 25.8/25

Left In: -1.627 $\pm$ 1.599 χ^2/NDF : 33.5/22

Left: 0.967 $\pm$ 1.113 χ^2/NDF : 55.4/47

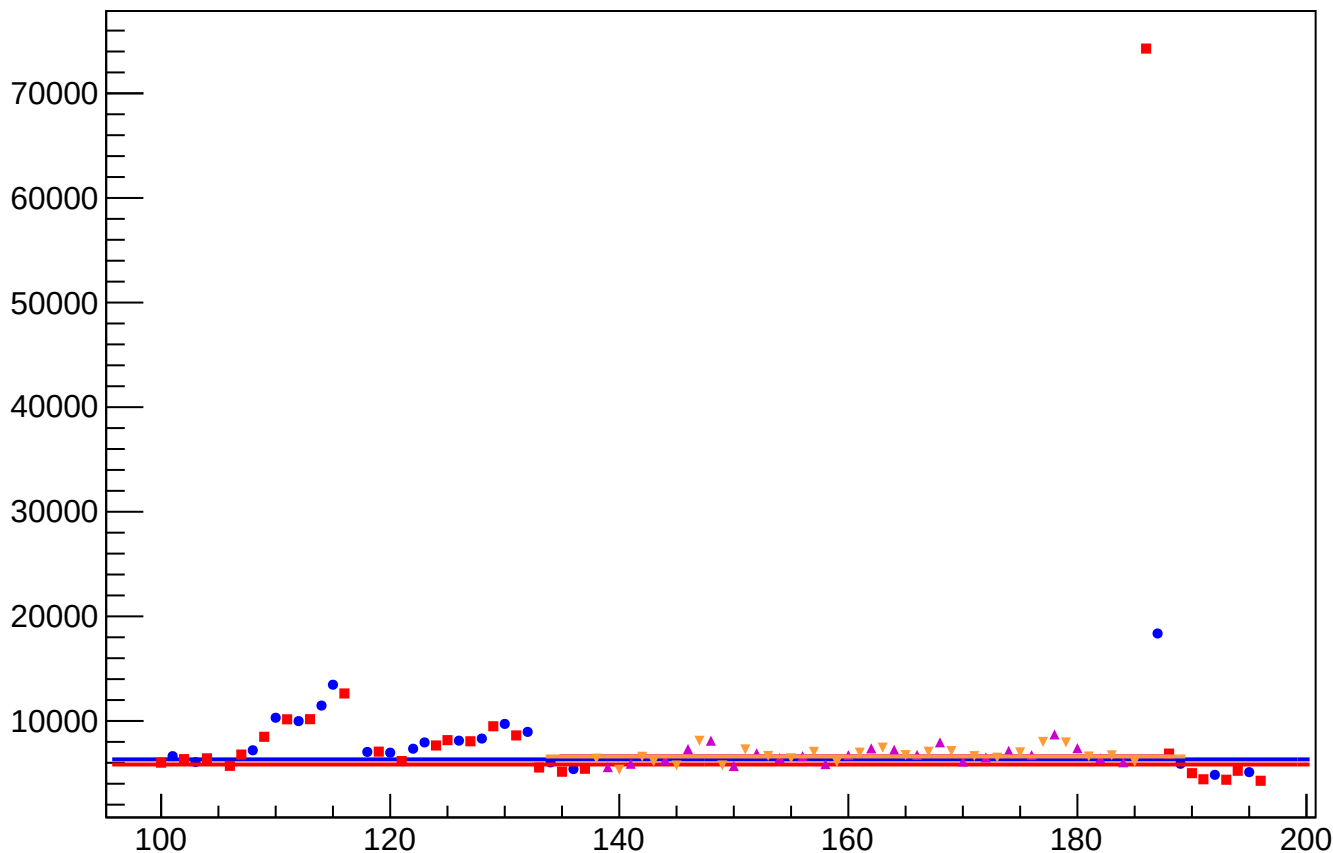
Right: -1.373 $\pm$ 1.408 χ^2/NDF : 45.9/46

In: -0.998 $\pm$ 1.292 χ^2/NDF : 53.2/43

Out: 0.961 $\pm$ 1.184 χ^2/NDF : 48.6/50

All: 0.067 $\pm$ 0.873 χ^2/NDF : 103.0/94

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6326.811 ± 1.552 $\chi^2/\text{NDF}: 1132797.3/20$

Left Out: 6607.100 ± 1.096 $\chi^2/\text{NDF}: 398416.1/24$

Right Out: 5839.283 ± 1.298 $\chi^2/\text{NDF}: 2097304.0/25$

Left In: 6628.653 ± 1.131 $\chi^2/\text{NDF}: 430282.2/22$

Left: 6617.543 ± 0.787 $\chi^2/\text{NDF}: 828885.6/47$

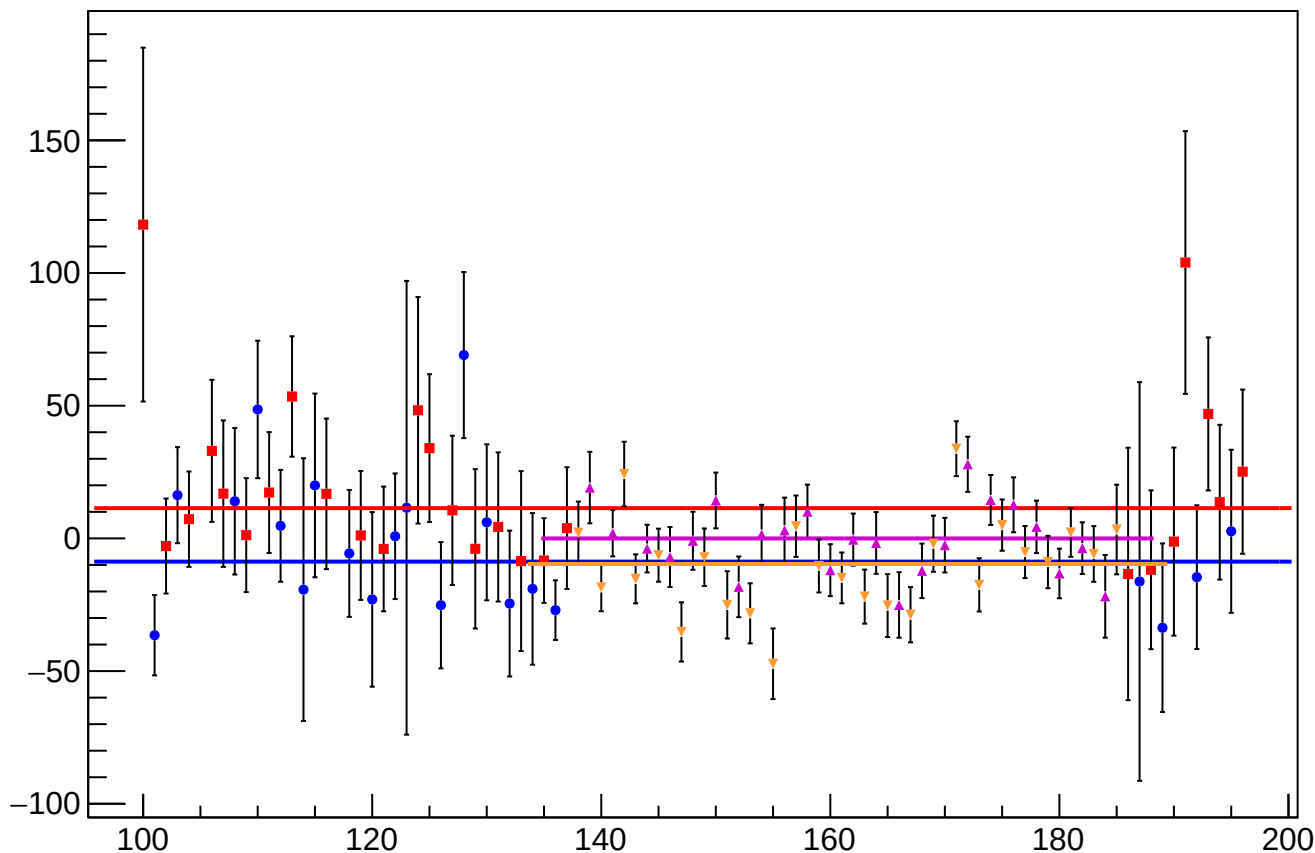
Right: 6039.898 ± 0.995 $\chi^2/\text{NDF}: 3288197.3/46$

In: 6523.960 ± 0.914 $\chi^2/\text{NDF}: 1587795.2/43$

Out: 6287.266 ± 0.837 $\chi^2/\text{NDF}: 2700035.6/50$

All: 6395.304 ± 0.617 $\chi^2/\text{NDF}: 4324296.0/94$

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.752 ± 5.246 $\chi^2/\text{NDF}: 23.3/20$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 11.401 ± 5.110 $\chi^2/\text{NDF}: 18.3/25$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

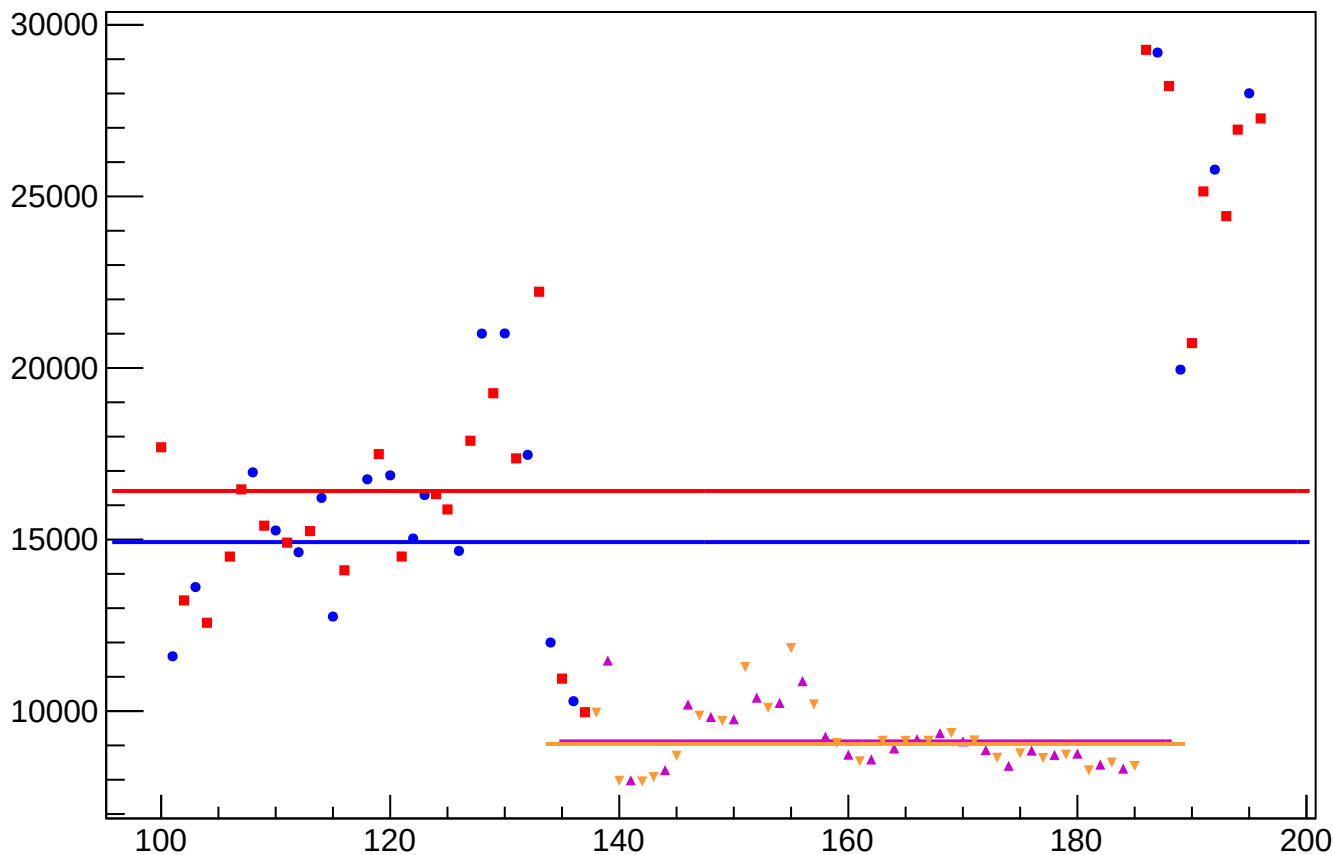
Right: 1.590 ± 3.661 $\chi^2/\text{NDF}: 49.1/46$

In: -1.317 ± 2.023 $\chi^2/\text{NDF}: 56.2/43$

Out: -6.562 ± 1.957 $\chi^2/\text{NDF}: 92.5/50$

All: -4.026 ± 1.406 $\chi^2/\text{NDF}: 152.3/94$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14926.113 $\pm$ 3.710 χ^2 /NDF: 1493656.4/20

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 16415.559 $\pm$ 3.613 χ^2 /NDF: 1902986.4/25

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

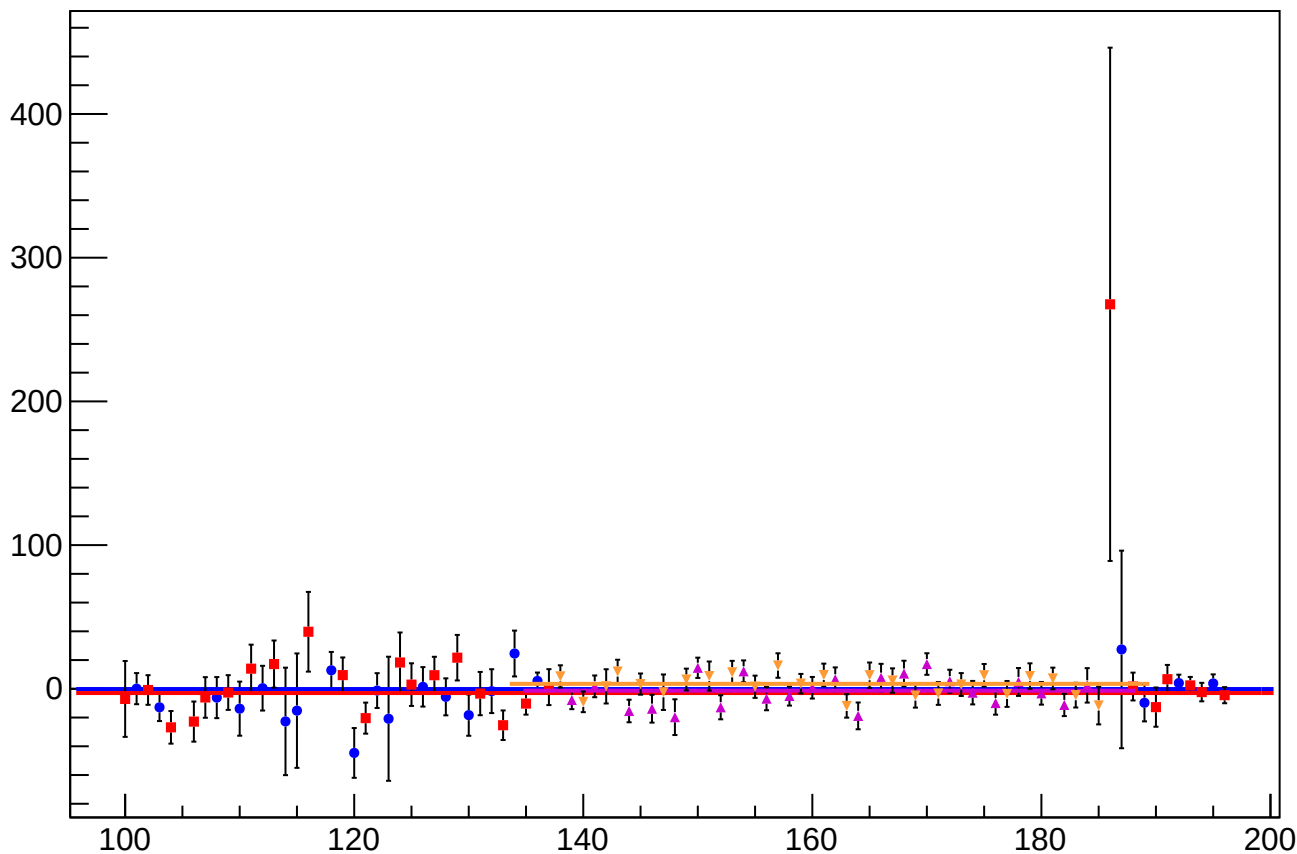
Right: 15690.443 $\pm$ 2.588 χ^2 /NDF: 3479361.0/46

In: 9980.266 $\pm$ 1.430 χ^2 /NDF:3858870.0/43

Out: 10124.450 $\pm$ 1.384 χ^2 /NDF:5783277.7/50

All: 10054.741 $\pm$ 0.994 χ^2 /NDF: 9647397.5/95

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.164 ± 2.469 χ^2/NDF : 17.6/20

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -2.950 ± 2.111 χ^2/NDF : 30.3/25

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

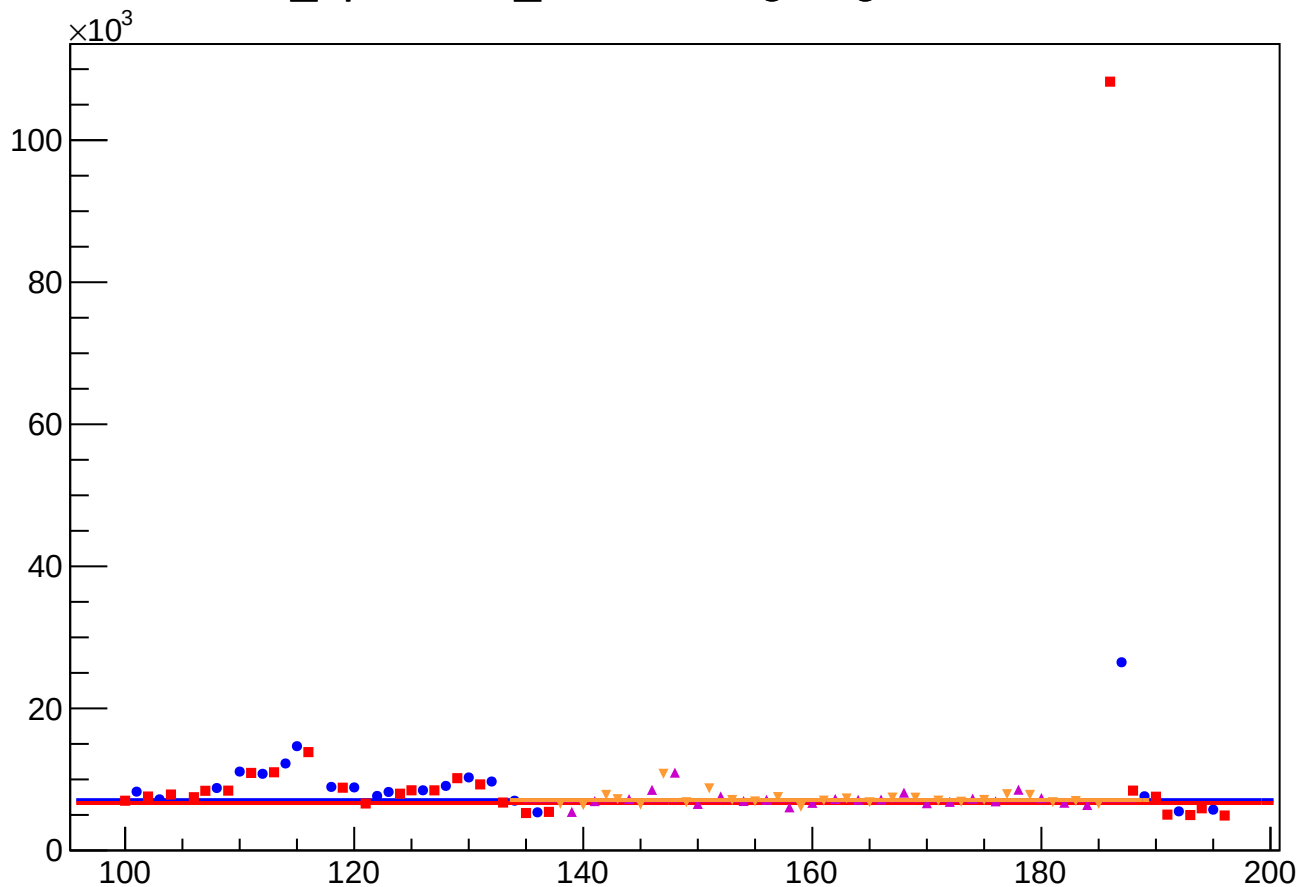
Right: -1.774 ± 1.604 χ^2/NDF : 48.6/46

In: -0.928 ± 1.401 χ^2/NDF : 54.3/43

Out: 0.987 ± 1.308 χ^2/NDF : 54.8/50

All: 0.095 ± 0.956 χ^2/NDF : 110.1/94

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7080.888 $\pm$ 1.746 χ^2/NDF : 1240536.5/20

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6684.270 $\pm$ 1.493 χ^2/NDF : 2063901.7/25

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

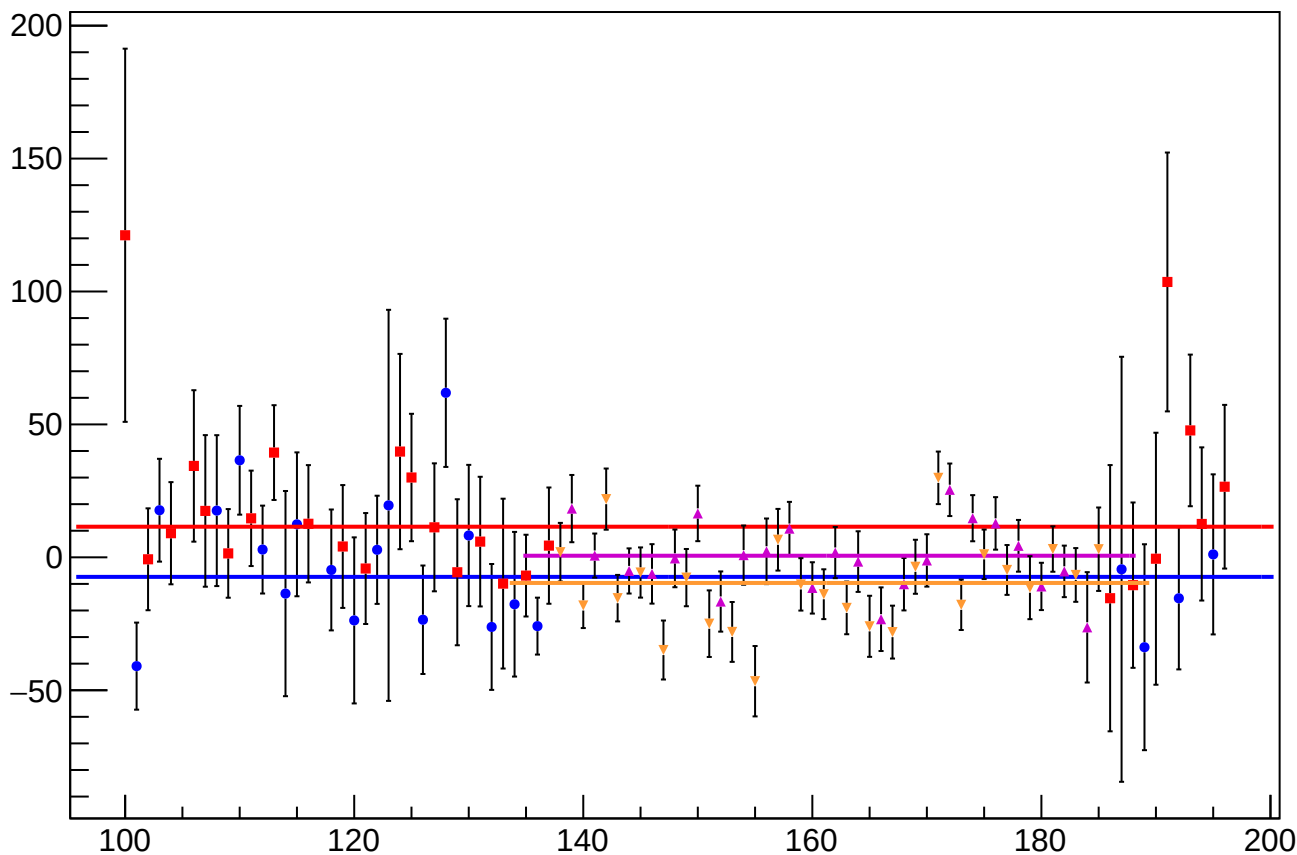
Right: 6851.715 $\pm$ 1.135 χ^2/NDF : 3334250.3/46

In: 7048.885 $\pm$ 0.990 χ^2/NDF : 1782067.2/43

Out: 6939.629 $\pm$ 0.925 χ^2/NDF : 2493961.2/50

All: 6990.511 $\pm$ 0.676 χ^2/NDF : 4282529.3/94

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.355 $\pm$ 4.904 χ^2/NDF : 24.4/20

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 11.516 $\pm$ 4.742 χ^2/NDF : 17.0/25

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

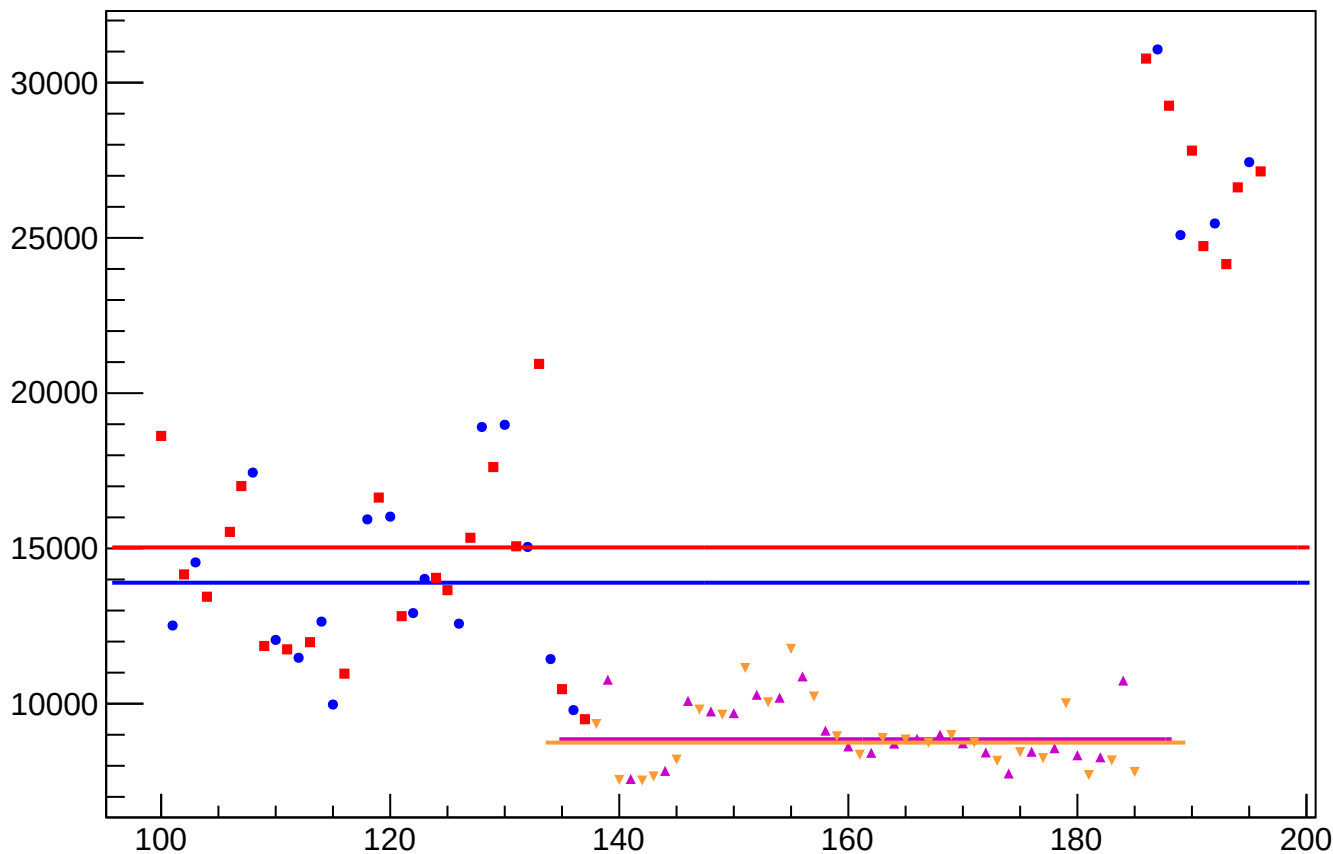
Right: 2.399 $\pm$ 3.409 χ^2/NDF : 49.0/46

In: -0.668 $\pm$ 1.958 χ^2/NDF : 56.3/43

Out: -6.289 $\pm$ 1.887 χ^2/NDF : 91.4/50

All: -3.581 $\pm$ 1.359 χ^2/NDF : 151.9/94

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13896.712 ± 3.468 $\chi^2/\text{NDF}: 1679627.8/20$

Left Out: 8748.407 ± 1.455 $\chi^2/\text{NDF}: 463394.1/24$

Right Out: 15032.878 ± 3.353 $\chi^2/\text{NDF}: 2408733.8/25$

Left In: 8855.591 ± 1.510 $\chi^2/\text{NDF}: 367542.7/22$

Left: 8800.011 ± 1.048 $\chi^2/\text{NDF}: 833550.6/47$

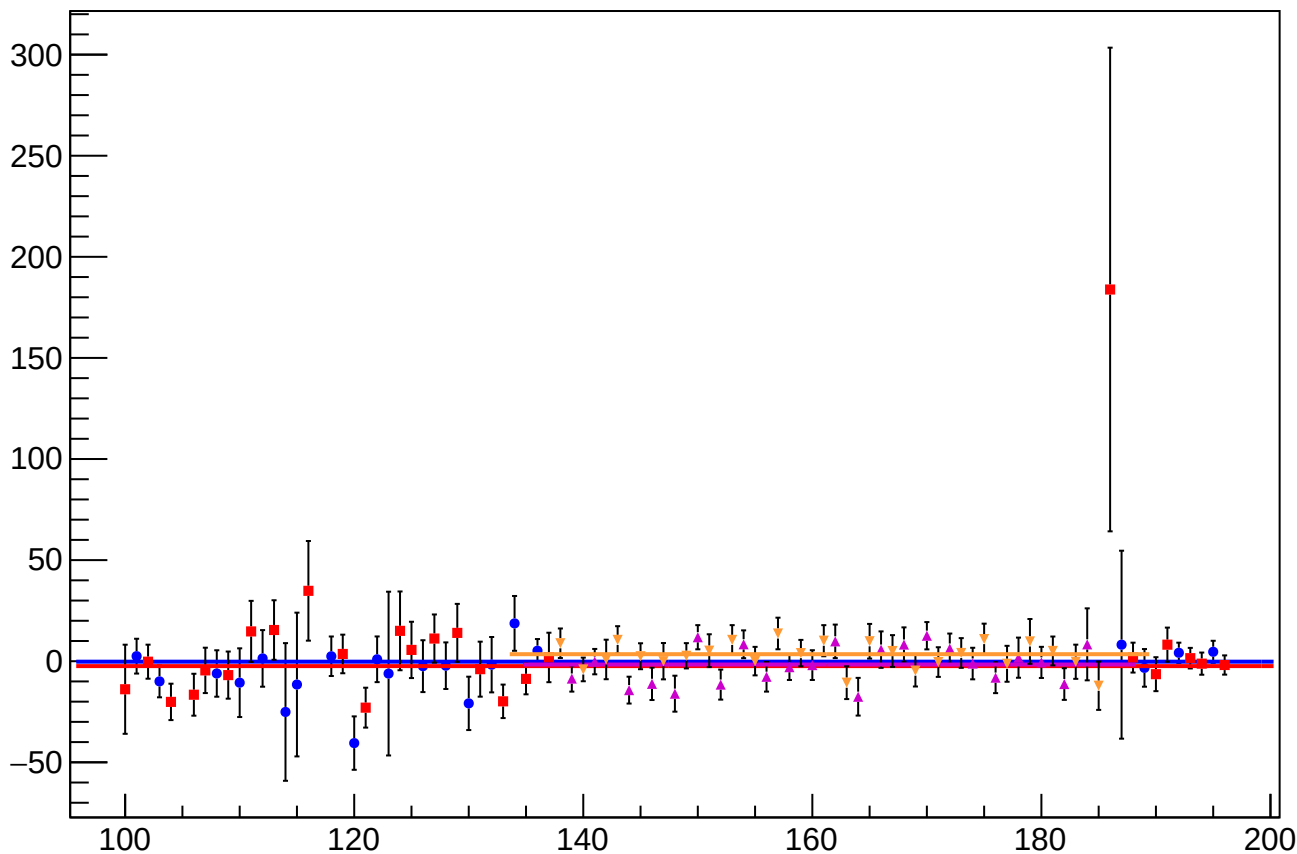
Right: 14483.926 ± 2.411 $\chi^2/\text{NDF}: 4143836.3/46$

In: 9658.736 ± 1.384 $\chi^2/\text{NDF}: 3823575.8/43$

Out: 9743.902 ± 1.335 $\chi^2/\text{NDF}: 5828497.3/50$

All: 9702.875 ± 0.961 $\chi^2/\text{NDF}: 9654035.1/94$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -0.228 ± 2.143 χ^2/NDF : 19.4/20

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -2.419 ± 1.793 χ^2/NDF : 30.2/25

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

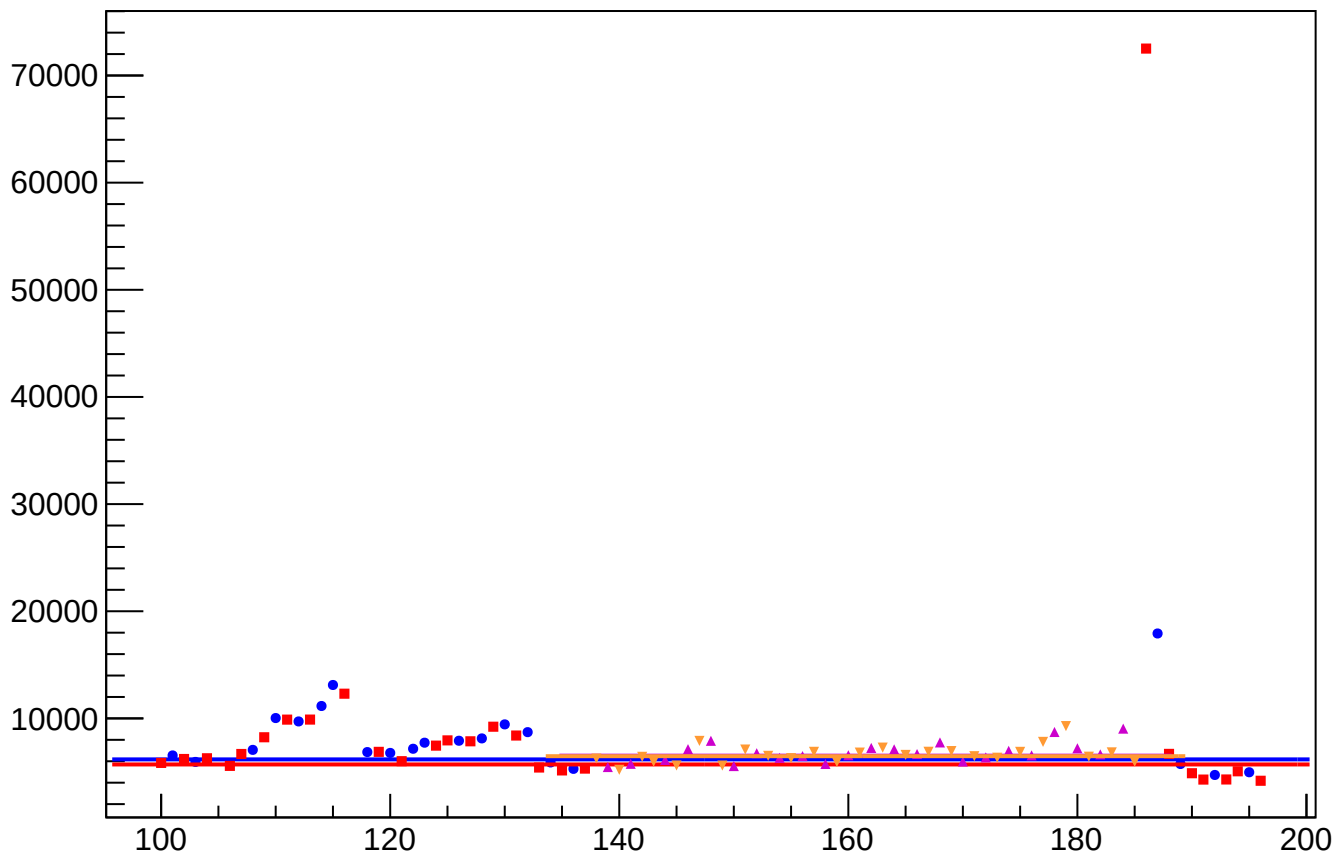
Right: -1.517 ± 1.375 χ^2/NDF : 50.2/46

In: -1.143 ± 1.271 χ^2/NDF : 53.4/43

Out: 1.001 ± 1.161 χ^2/NDF : 52.3/50

All: 0.025 ± 0.857 χ^2/NDF : 107.2/94

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6174.684 $\pm$ 1.516 χ^2/NDF : 1132079.7/20

Left Out: 6471.976 $\pm$ 1.078 χ^2/NDF : 490282.9/24

Right Out: 5701.429 $\pm$ 1.268 χ^2/NDF : 2083790.1/25

Left In: 6521.975 $\pm$ 1.116 χ^2/NDF : 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2/NDF : 971356.4/47

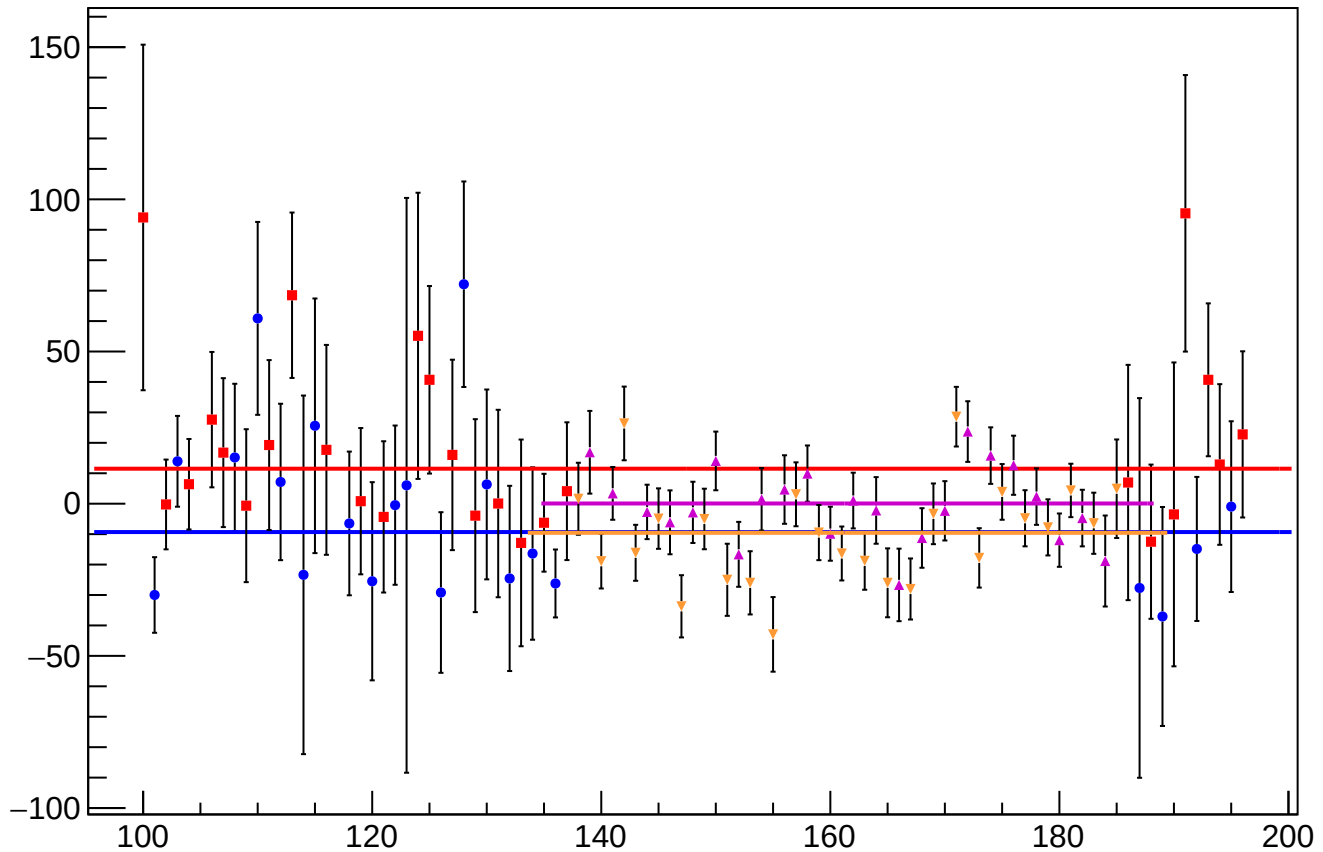
Right: 5896.216 $\pm$ 0.972 χ^2/NDF : 3273244.6/46

In: 6399.910 $\pm$ 0.899 χ^2/NDF : 1646168.3/43

Out: 6148.625 $\pm$ 0.821 χ^2/NDF : 2788541.4/50

All: 6262.981 $\pm$ 0.606 χ^2/NDF : 4477330.4/94

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.318 ± 5.120 χ^2/NDF : 22.8/20

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 11.499 ± 4.982 χ^2/NDF : 18.7/25

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

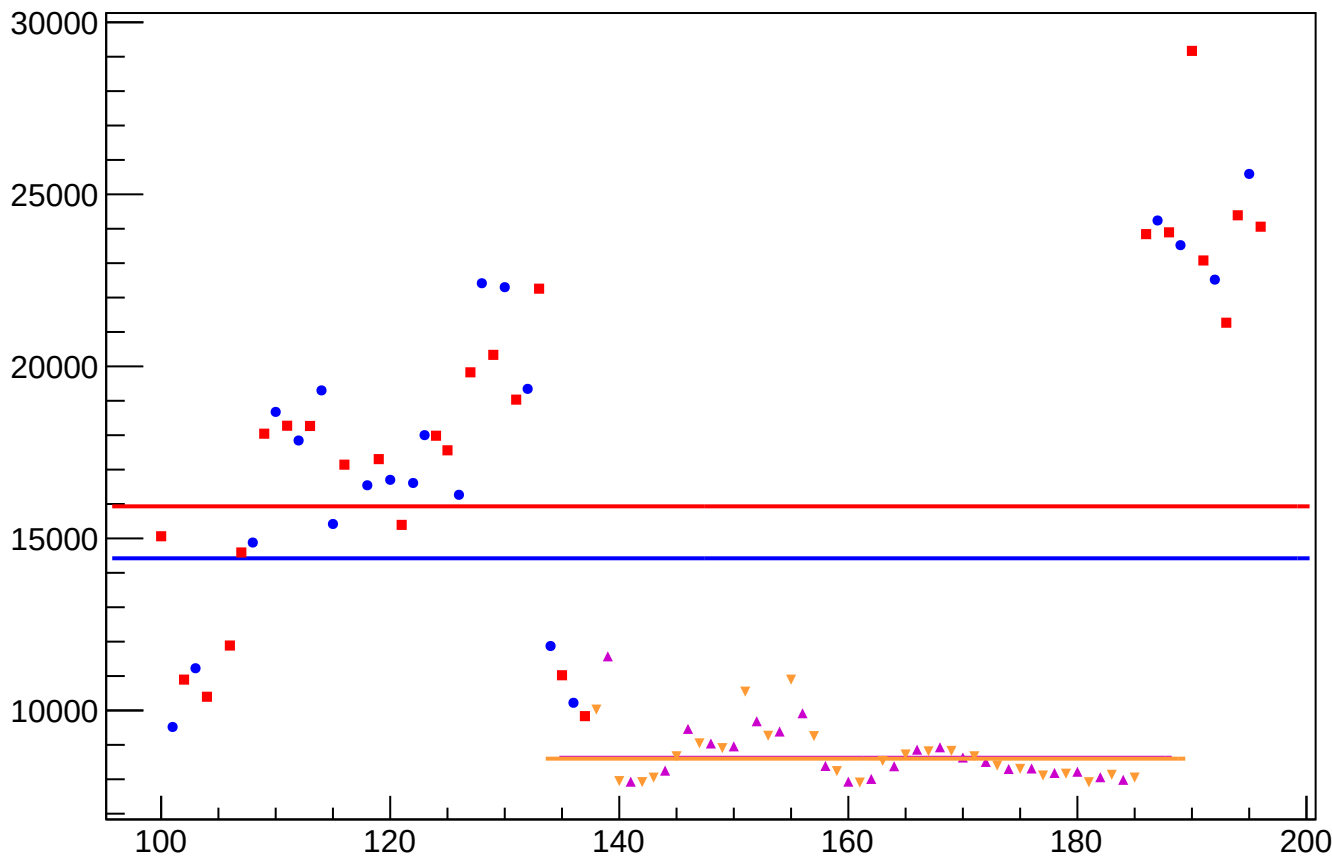
Right: 1.374 ± 3.571 χ^2/NDF : 50.0/46

In: -1.250 ± 1.921 χ^2/NDF : 55.5/43

Out: -6.603 ± 1.865 χ^2/NDF : 93.6/50

All: -4.006 ± 1.338 χ^2/NDF : 153.1/94

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14422.340+/-3.621 χ^2/NDF : 1863532.9/20

Left Out: 8598.983+/-1.423 χ^2/NDF : 249070.5/24

Right Out: 15932.243+/-3.523 χ^2/NDF : 2080722.9/25

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

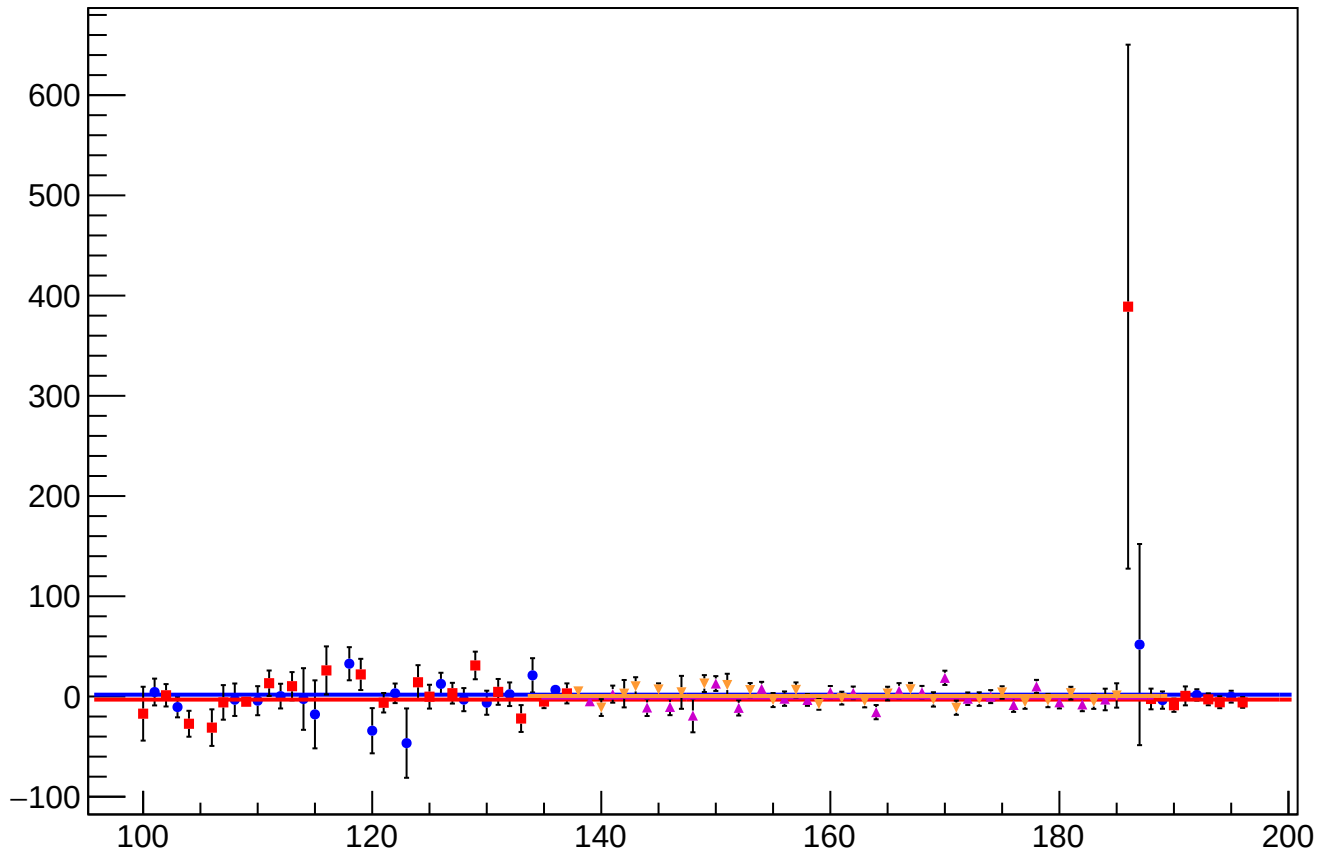
Right: 15197.891+/-2.525 χ^2/NDF : 4033587.5/46

In: 9441.456+/-1.359 χ^2/NDF : 4303586.6/43

Out: 9626.951+/-1.319 χ^2/NDF : 6055032.7/50

All: 9536.939+/-0.946 χ^2/NDF : 10368215.7/95

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.806 ± 2.215 $\chi^2/\text{NDF}: 14.9/20$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.097 ± 1.818 $\chi^2/\text{NDF}: 27.2/25$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

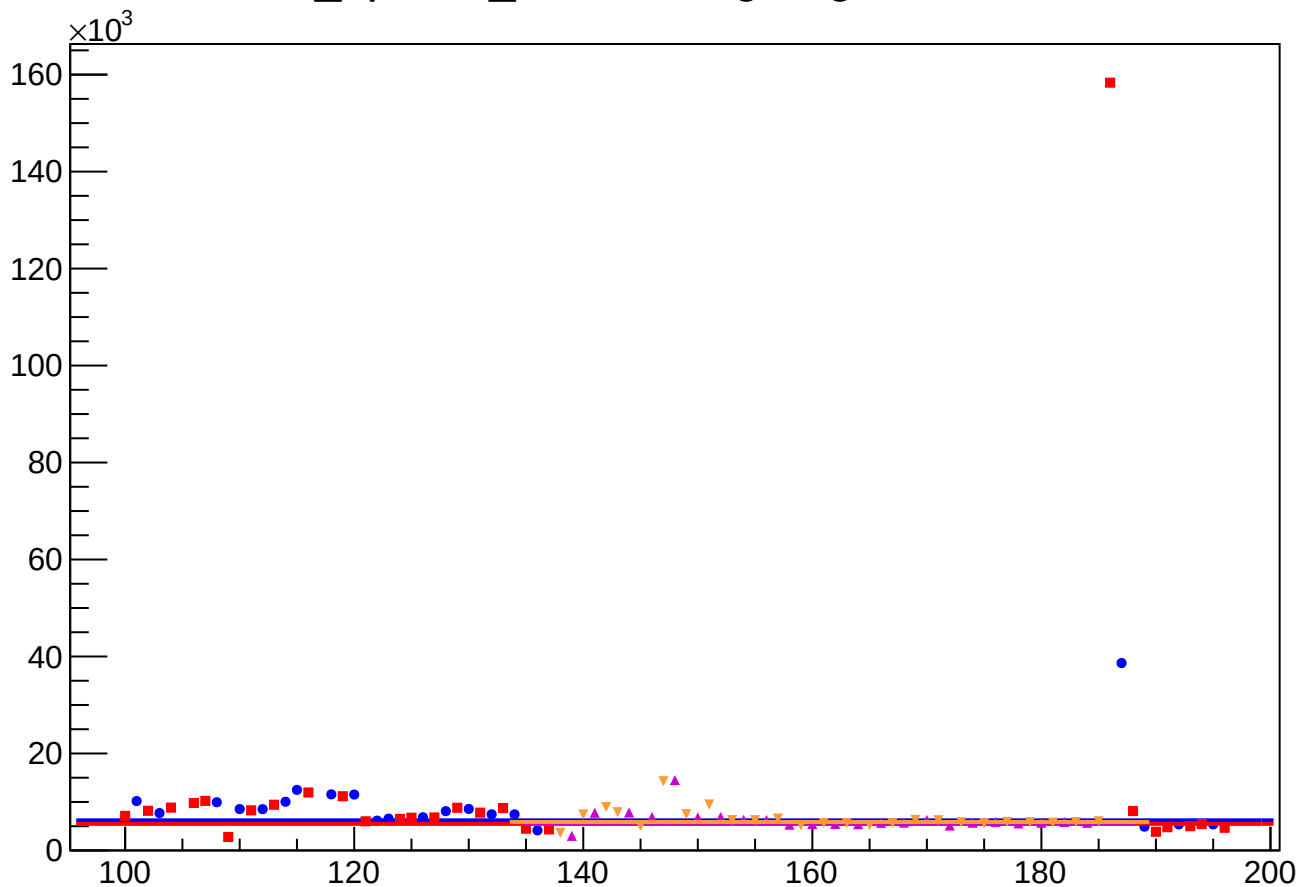
Right: -1.123 ± 1.405 $\chi^2/\text{NDF}: 45.0/46$

In: -0.238 ± 1.181 $\chi^2/\text{NDF}: 48.6/43$

Out: -0.843 ± 1.118 $\chi^2/\text{NDF}: 49.2/50$

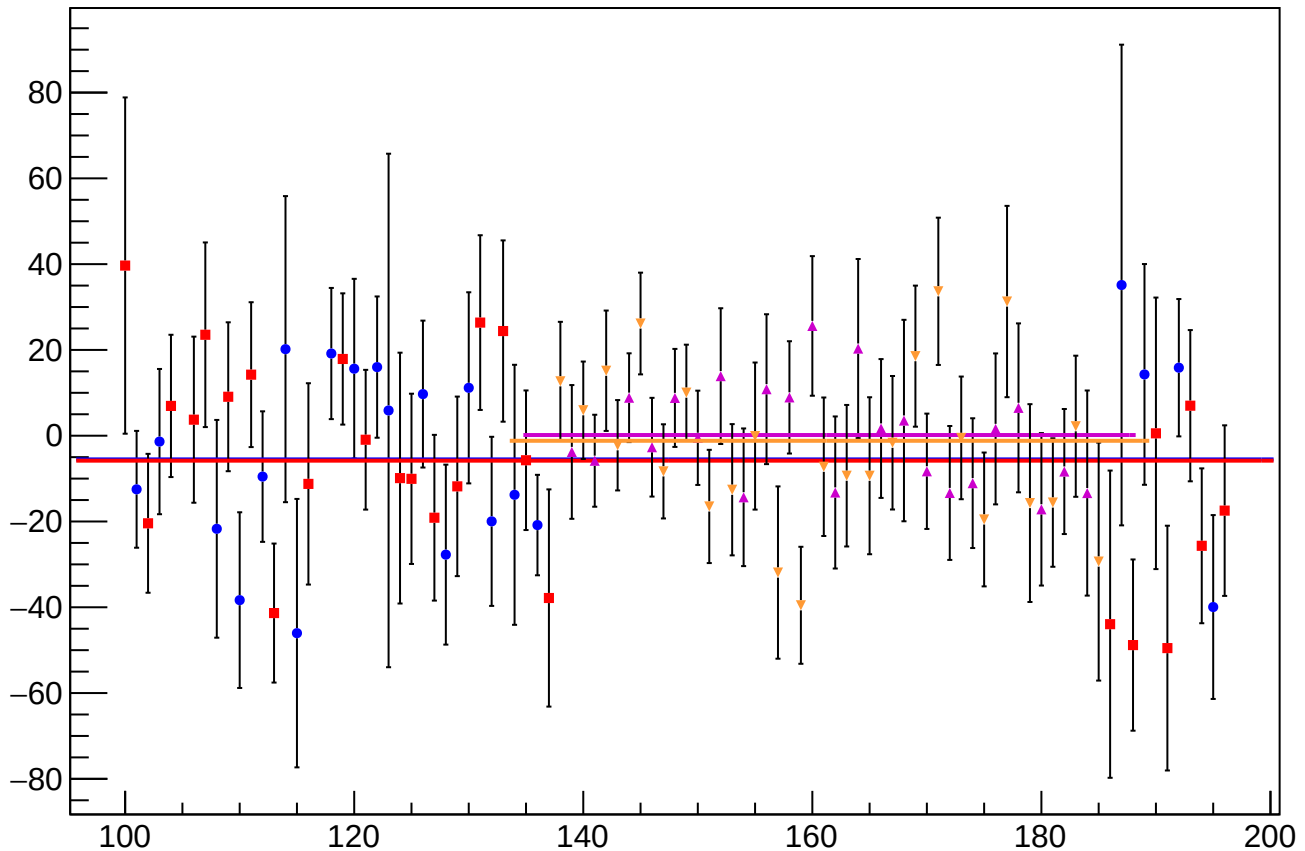
All: -0.557 ± 0.812 $\chi^2/\text{NDF}: 97.9/94$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6213.923+/-1.566	χ^2/NDF : 1790415.2/20	Left: 5713.698+/-0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605+/-1.002	χ^2/NDF : 1690049.2/24	Right: 5778.232+/-0.994	χ^2/NDF : 5252429.4/46
Right Out: 5484.598+/-1.286	χ^2/NDF : 3332422.6/25	In: 5753.986+/-0.835	χ^2/NDF : 4073738.2/43
Left In: 5571.330+/-0.987	χ^2/NDF : 2162788.3/22	Out: 5718.426+/-0.790	χ^2/NDF : 5075675.5/50
		All: 5735.236+/-0.574	χ^2/NDF : 9150370.4/94

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.525 $\pm$ 4.225 χ^2/NDF : 21.2/20

Left Out: -1.182 $\pm$ 2.939 χ^2/NDF : 33.7/24

Right Out: -5.815 $\pm$ 3.881 χ^2/NDF : 31.4/25

Left In: 0.157 $\pm$ 3.058 χ^2/NDF : 11.5/22

Left: -0.539 $\pm$ 2.119 χ^2/NDF : 45.3/47

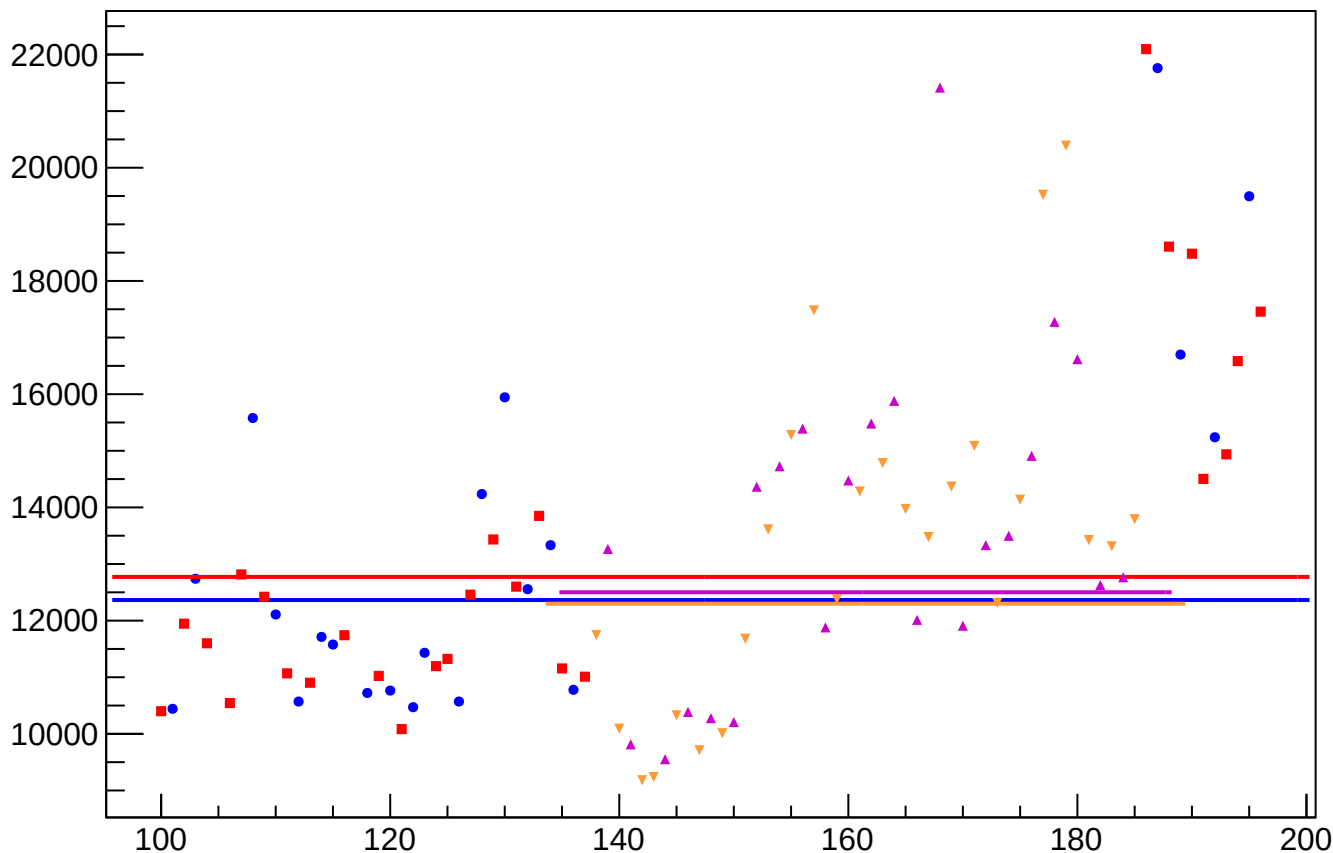
Right: -5.682 $\pm$ 2.858 χ^2/NDF : 52.6/46

In: -1.796 $\pm$ 2.477 χ^2/NDF : 33.9/43

Out: -2.871 $\pm$ 2.343 χ^2/NDF : 66.0/50

All: -2.363 $\pm$ 1.702 χ^2/NDF : 99.9/94

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12364.001+/-2.988

χ^2/NDF : 691788.7/20

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

Right Out: 12772.574+/-2.744

χ^2/NDF : 844134.7/25

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

Left: 12395.720+/-1.498

χ^2/NDF : 2868458.0/47

Right: 12585.621+/-2.021

χ^2/NDF : 1546066.9/46

In: 12453.773+/-1.752

χ^2/NDF : 2051053.5/43

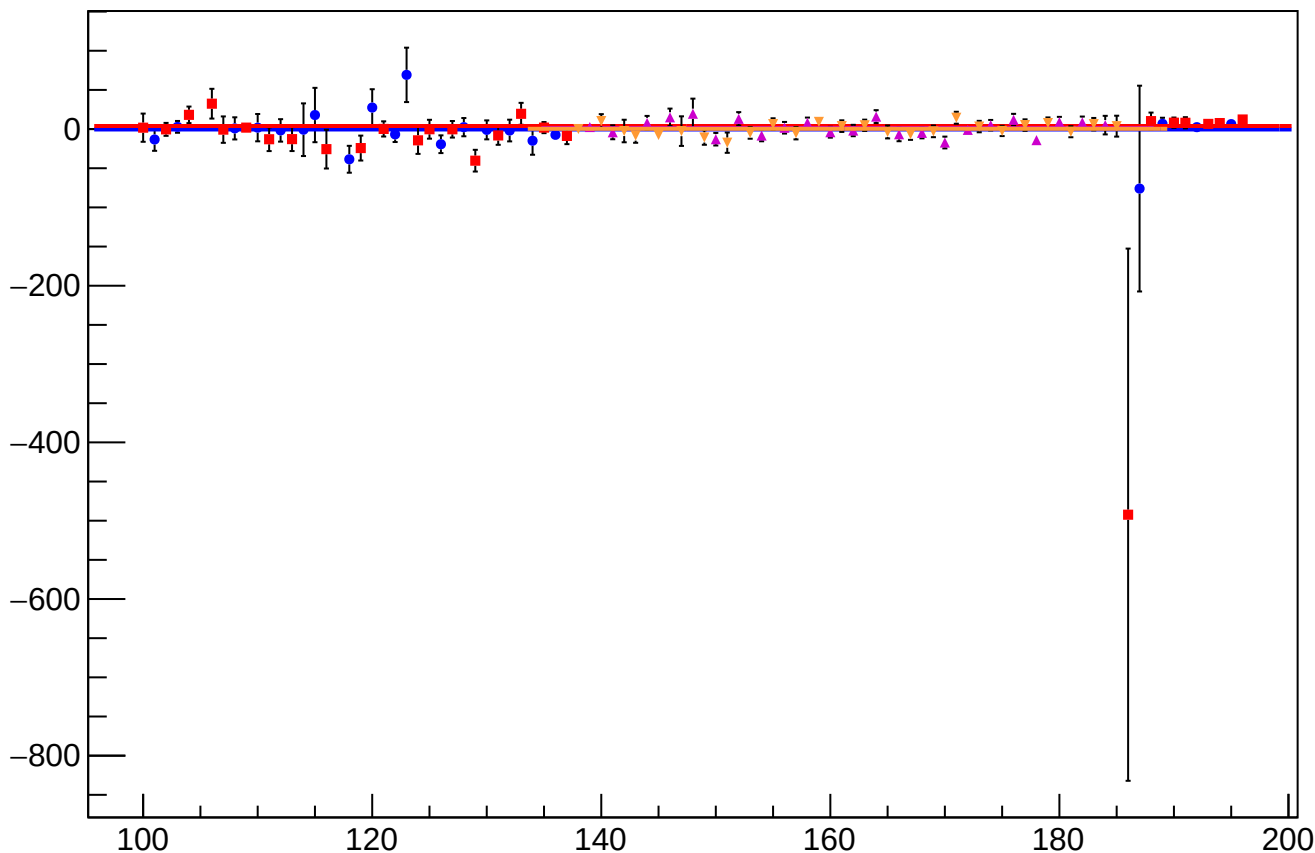
Out: 12471.394+/-1.657

χ^2/NDF : 2369115.4/50

All: 12463.075+/-1.204

χ^2/NDF : 4420222.3/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.522 ± 2.044 $\chi^2/\text{NDF}: 21.2/20$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 3.921 ± 1.696 $\chi^2/\text{NDF}: 34.0/25$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

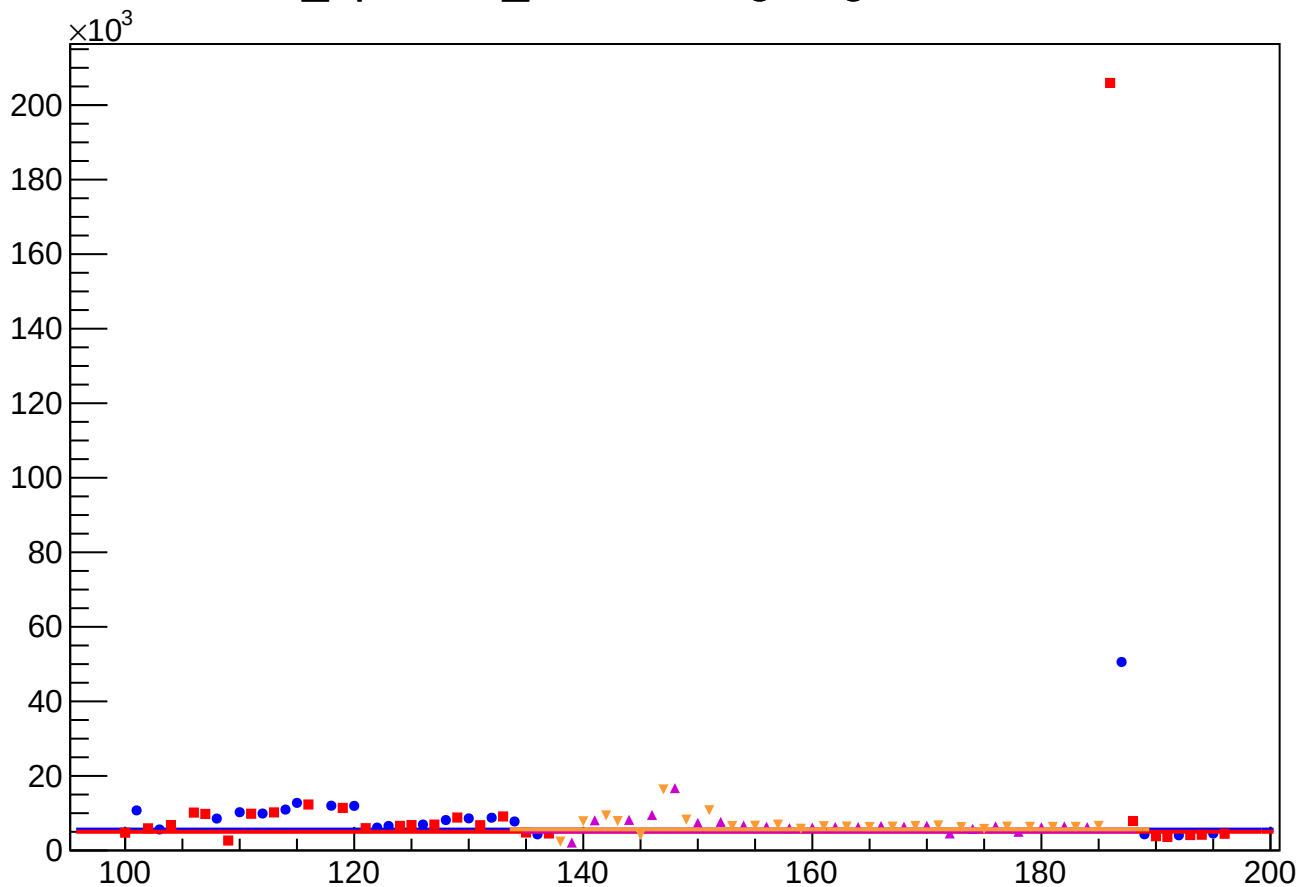
Right: 2.109 ± 1.305 $\chi^2/\text{NDF}: 57.9/46$

In: 0.641 ± 1.139 $\chi^2/\text{NDF}: 55.2/43$

Out: 1.840 ± 1.095 $\chi^2/\text{NDF}: 55.7/50$

All: 1.264 ± 0.789 $\chi^2/\text{NDF}: 111.5/94$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5599.464 $\pm$ 1.445 χ^2/NDF : 2394169.4/20

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 5016.726 $\pm$ 1.199 χ^2/NDF : 3475215.9/25

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

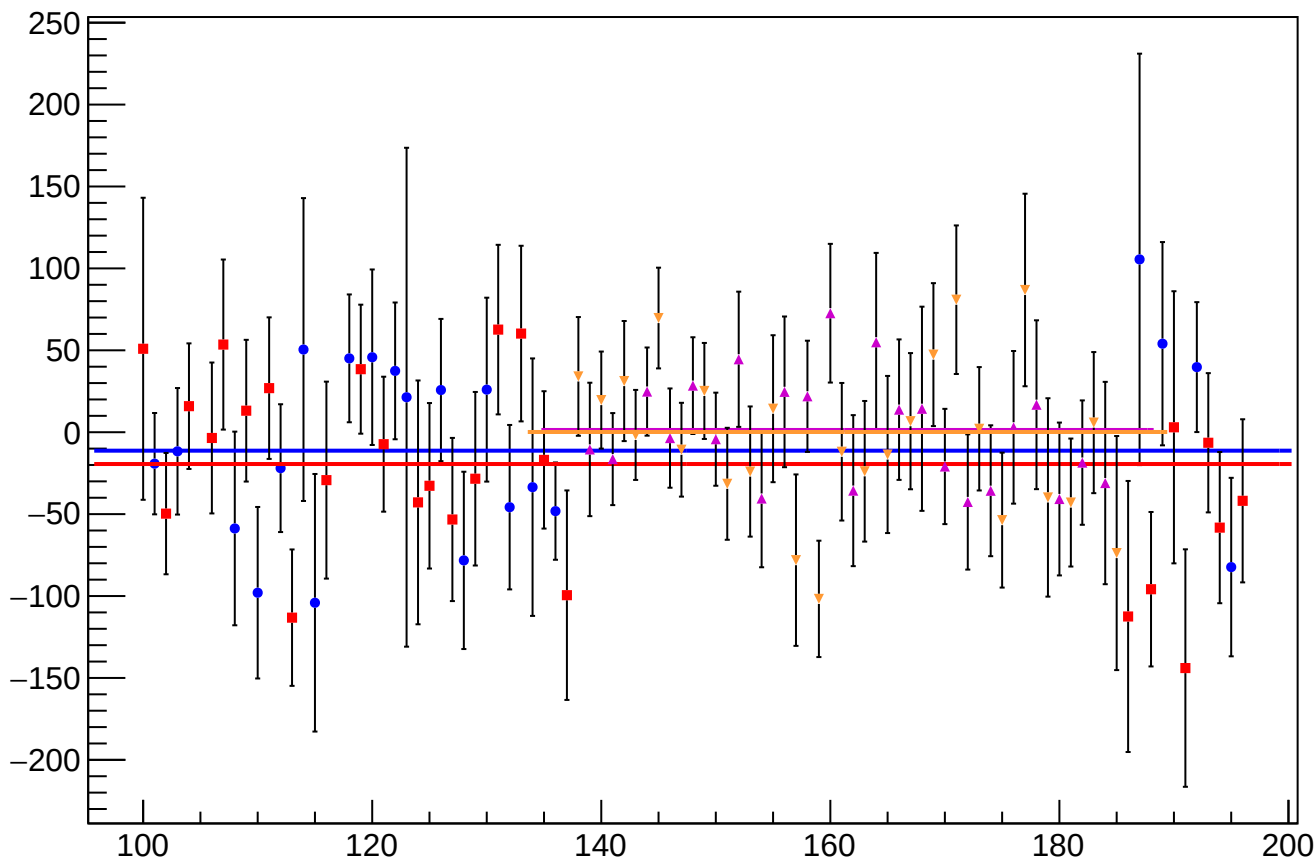
Right: 5254.346 $\pm$ 0.923 χ^2/NDF : 5965649.0/46

In: 5281.078 $\pm$ 0.805 χ^2/NDF : 7960139.5/43

Out: 5391.666 $\pm$ 0.774 χ^2/NDF : 7771326.6/50

All: 5338.550 $\pm$ 0.558 χ^2/NDF : 15741267.2/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -11.265 ± 10.481 χ^2/NDF : 20.1/20

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -19.413 ± 9.643 χ^2/NDF : 28.1/25

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

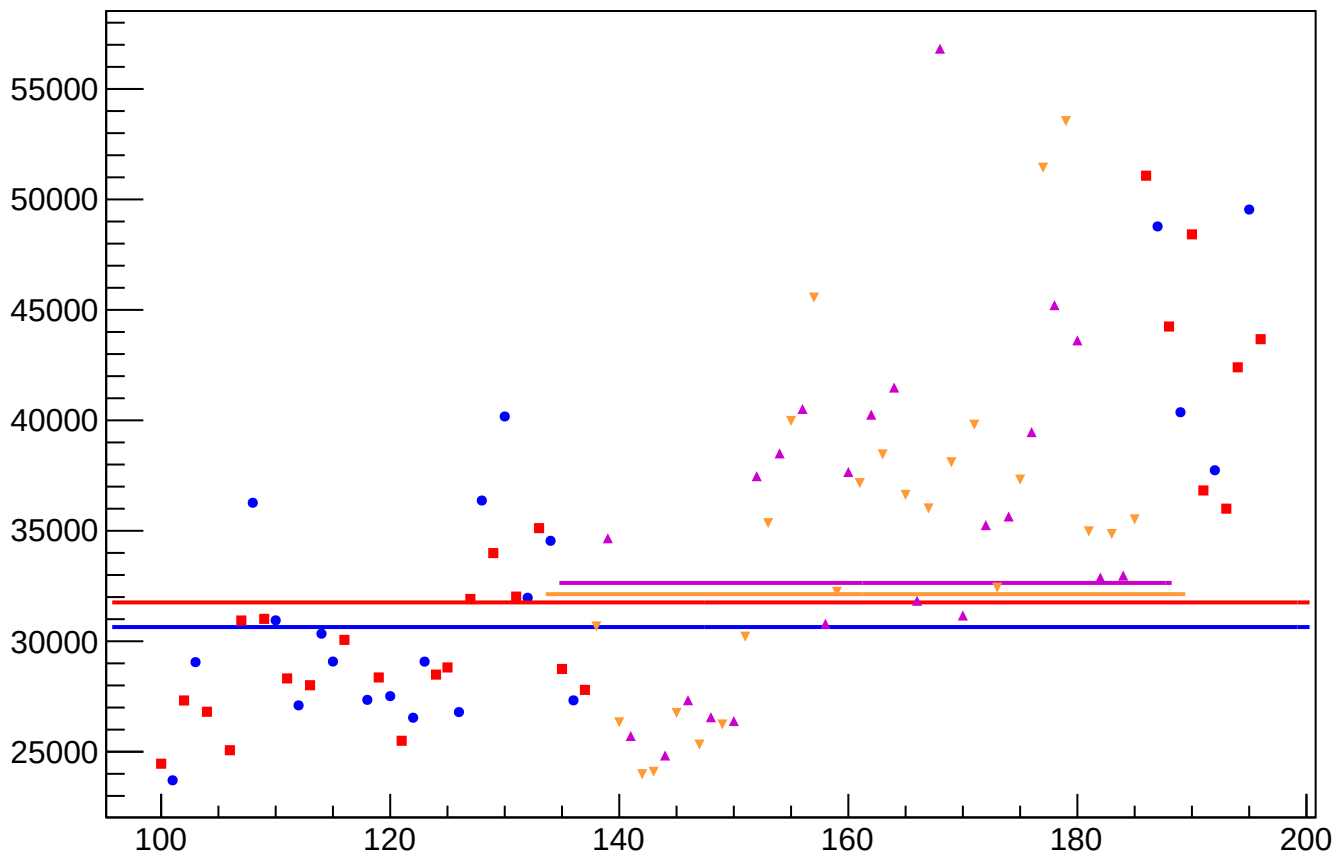
Right: -15.677 ± 7.097 χ^2/NDF : 48.6/46

In: -3.272 ± 6.354 χ^2/NDF : 34.3/43

Out: -7.451 ± 6.009 χ^2/NDF : 61.9/50

All: -5.478 ± 4.366 χ^2/NDF : 96.5/94

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 30643.524 ± 7.411 $\chi^2/\text{NDF}: 702793.4/20$

Left Out: 32132.314 ± 5.433 $\chi^2/\text{NDF}: 1540079.4/24$

Right Out: 31758.242 ± 6.819 $\chi^2/\text{NDF}: 830174.8/25$

Left In: 32641.162 ± 5.650 $\chi^2/\text{NDF}: 1402162.4/22$

Left: 32376.774 ± 3.916 $\chi^2/\text{NDF}: 2946456.2/47$

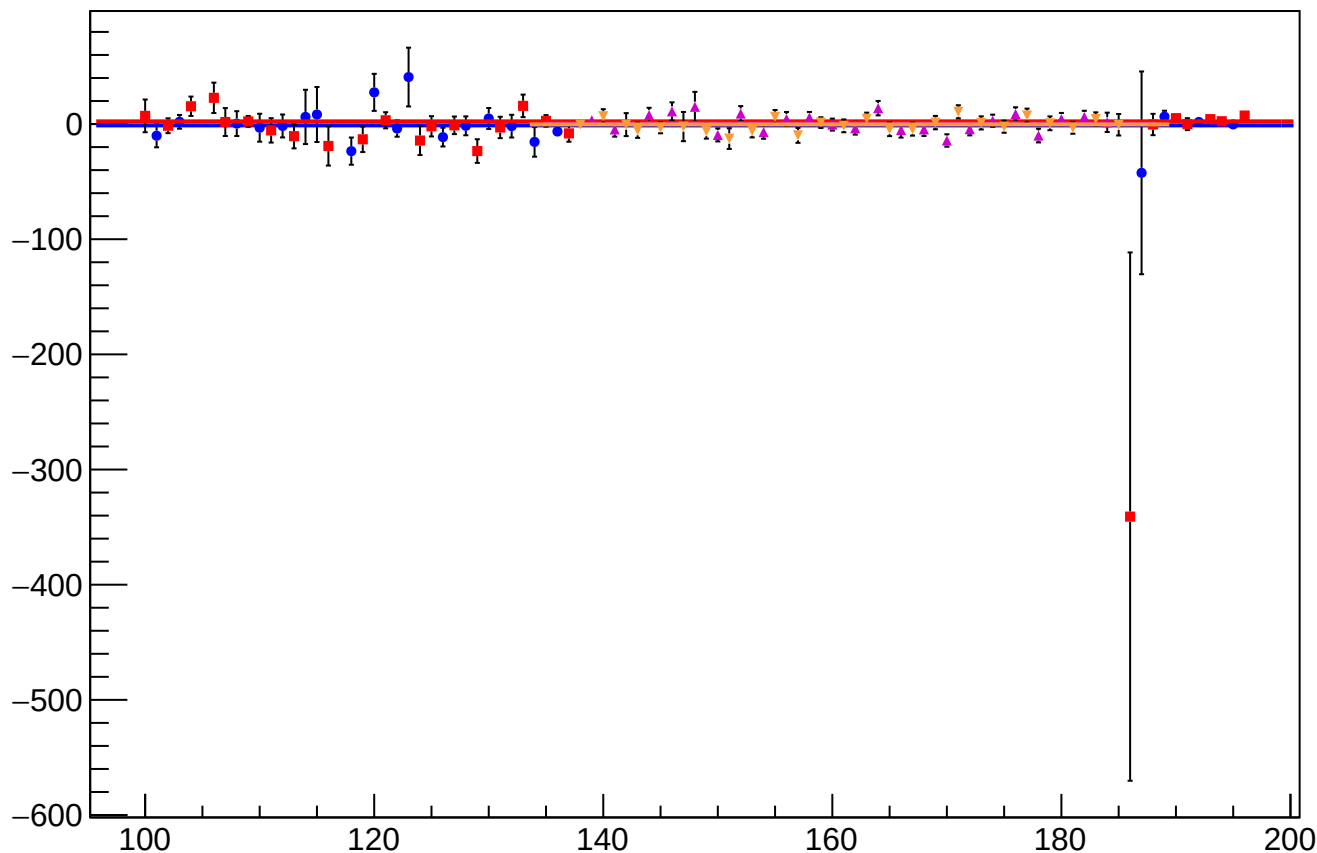
Right: 31247.198 ± 5.018 $\chi^2/\text{NDF}: 1545220.1/46$

In: 31906.890 ± 4.493 $\chi^2/\text{NDF}: 2150905.2/43$

Out: 31987.059 ± 4.249 $\chi^2/\text{NDF}: 2372095.1/50$

All: 31949.211 ± 3.087 $\chi^2/\text{NDF}: 4523168.3/95$

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.162 ± 1.434 χ^2/NDF : 20.0/20

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.352 ± 1.225 χ^2/NDF : 29.5/25

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

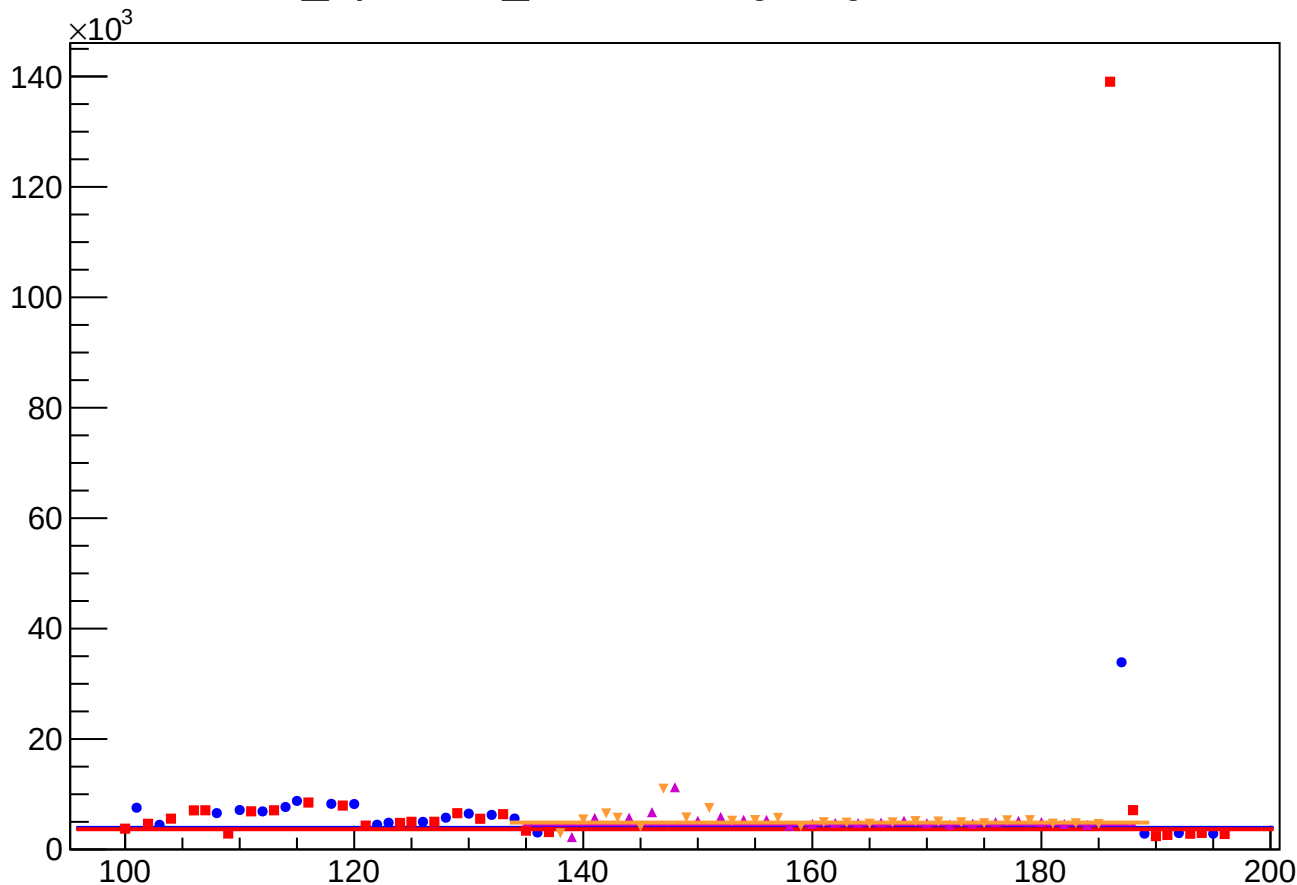
Right: 0.870 ± 0.931 χ^2/NDF : 53.0/46

In: 0.104 ± 0.893 χ^2/NDF : 57.5/43

Out: 0.961 ± 0.847 χ^2/NDF : 49.6/50

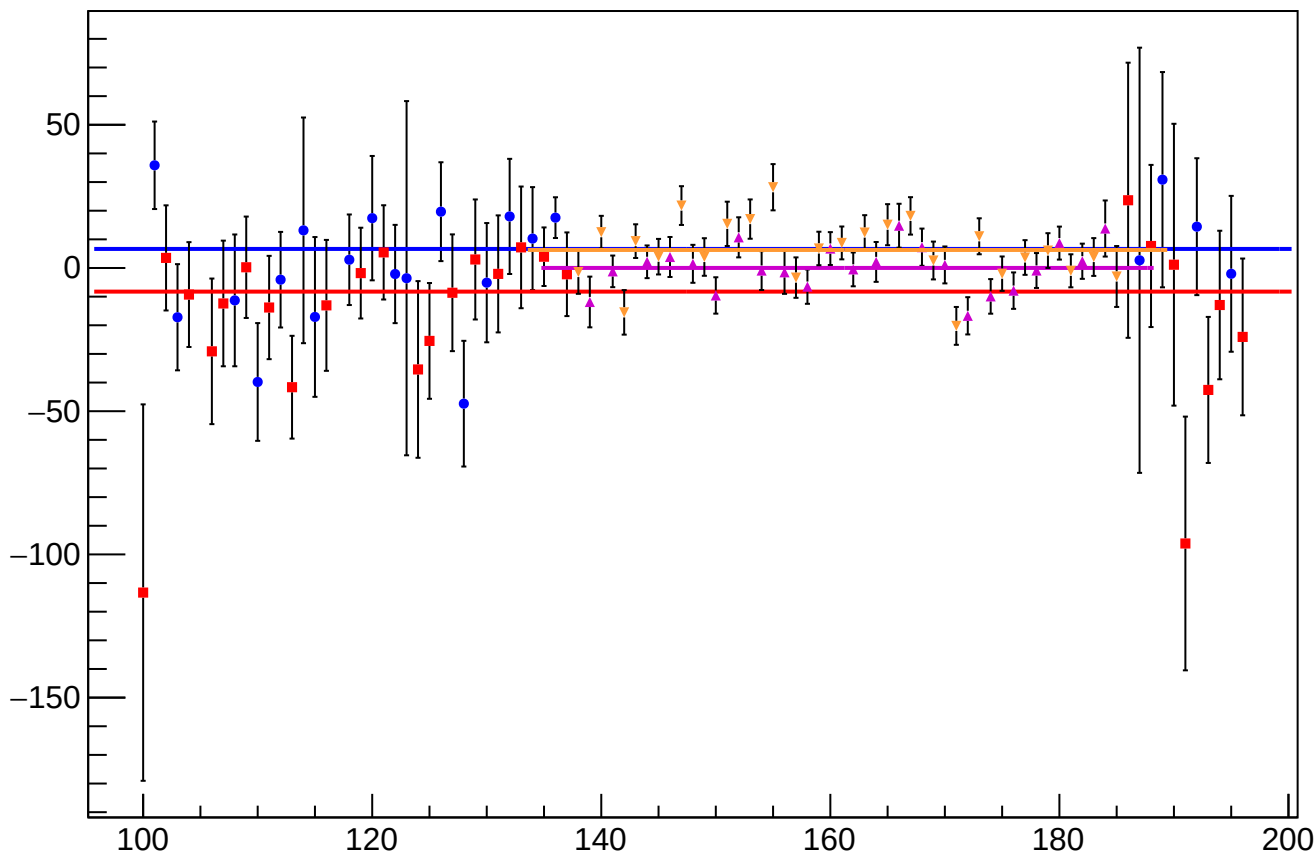
All: 0.556 ± 0.615 χ^2/NDF : 107.6/94

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3911.144+/-1.014	χ^2/NDF : 2578211.3/20	Left: 4702.320+/-0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567+/-0.829	χ^2/NDF : 1511151.0/24	Right: 3767.474+/-0.659	χ^2/NDF : 6118627.9/46
Right Out: 3662.740+/-0.866	χ^2/NDF : 3505717.5/25	In: 4298.602+/-0.632	χ^2/NDF : 5451064.1/43
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 4292.248+/-0.599	χ^2/NDF : 6029288.6/50
		All: 4295.254+/-0.435	χ^2/NDF : 11480406.1/9

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.654 ± 3.959 $\chi^2/\text{NDF}: 23.1/20$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -8.247 ± 3.991 $\chi^2/\text{NDF}: 19.3/25$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

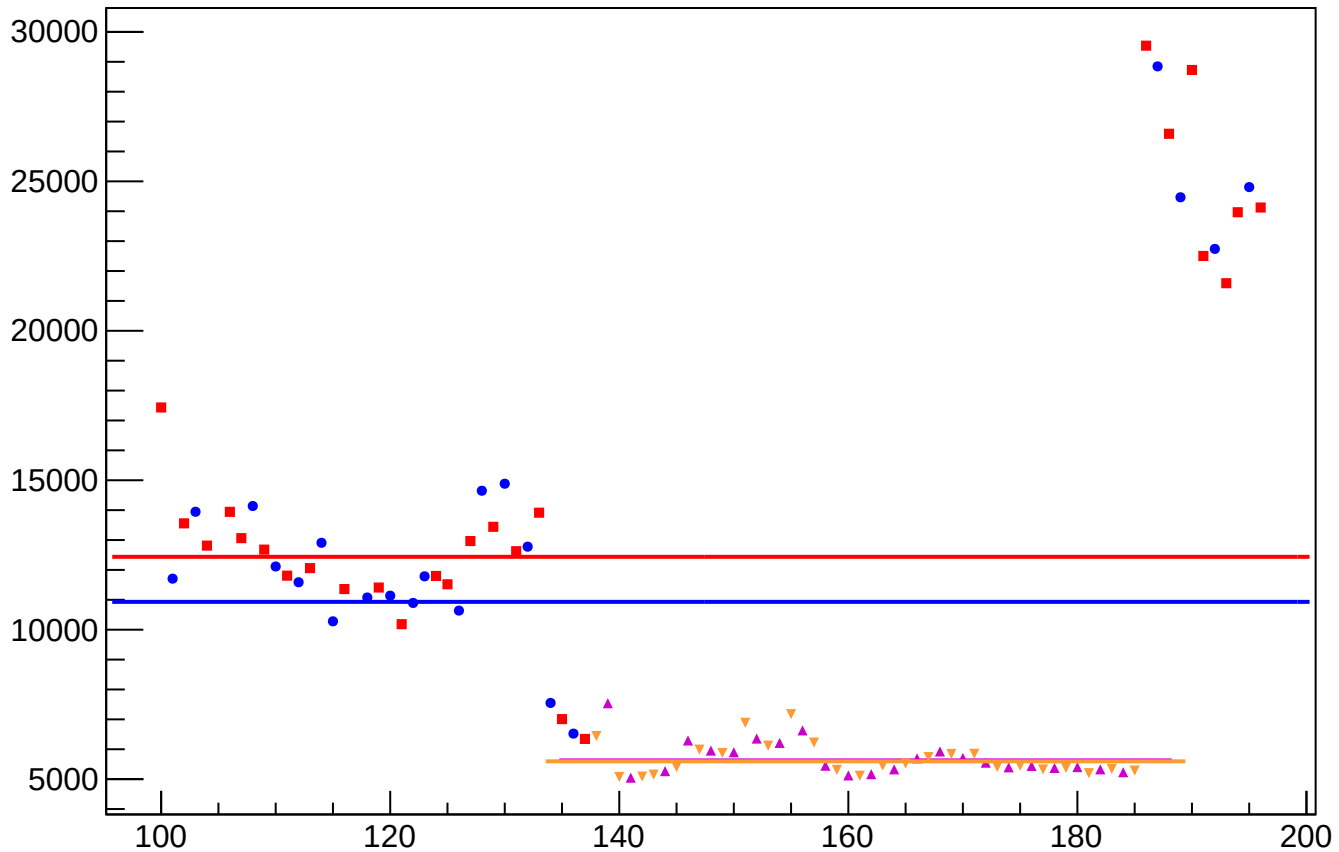
Right: -0.736 ± 2.810 $\chi^2/\text{NDF}: 49.4/46$

In: 0.714 ± 1.280 $\chi^2/\text{NDF}: 55.5/43$

Out: 4.881 ± 1.245 $\chi^2/\text{NDF}: 87.8/50$

All: 2.856 ± 0.893 $\chi^2/\text{NDF}: 148.7/94$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10931.231+/-2.799 χ^2/NDF : 2483437.2/20

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 12438.505+/-2.822 χ^2/NDF : 3109356.7/25

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

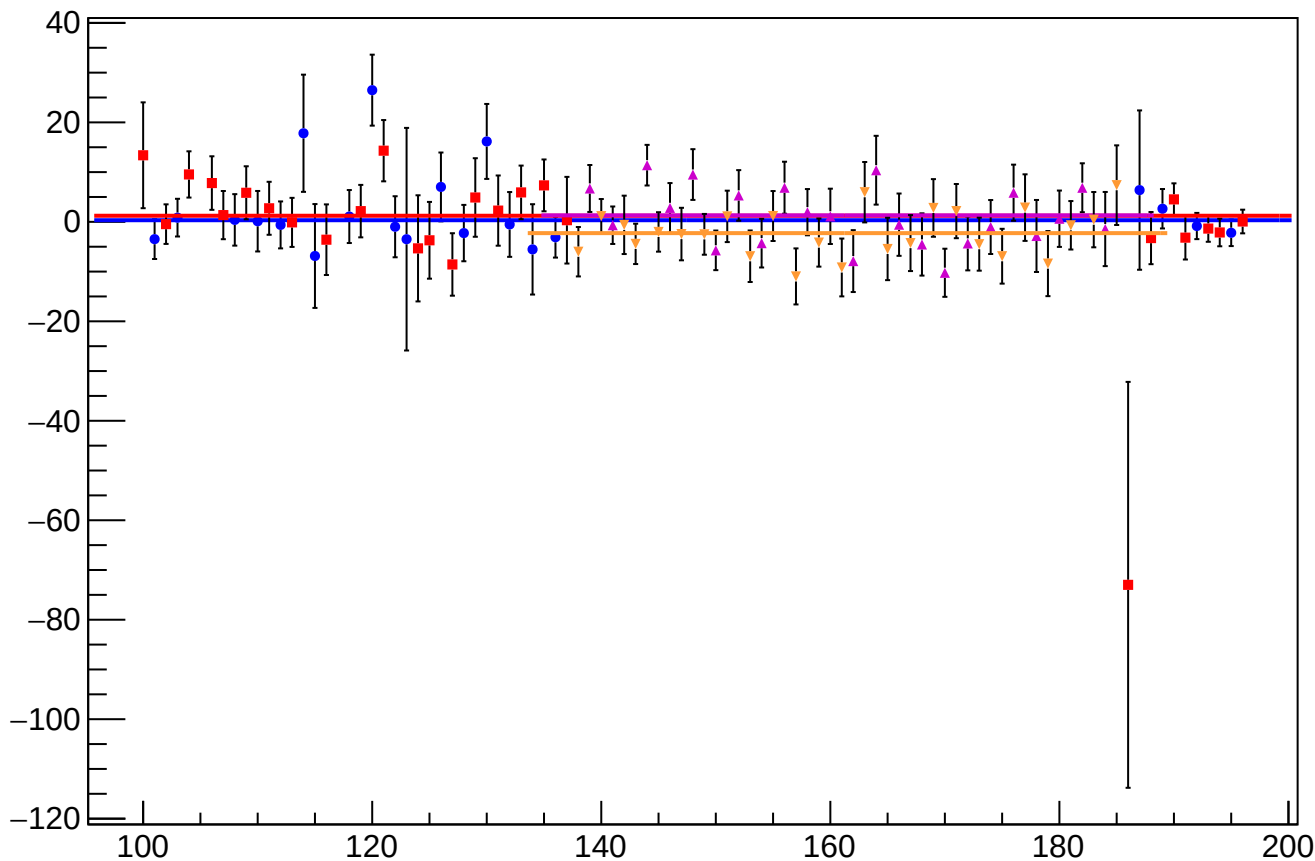
Right: 11678.781+/-1.987 χ^2/NDF : 5736602.9/46

In: 6182.142+/-0.905 χ^2/NDF : 5977625.0/43

Out: 6262.113+/-0.880 χ^2/NDF : 8700543.3/50

All: 6223.253+/-0.631 χ^2/NDF : 14682179.4/9

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.328 ± 1.079 $\chi^2/\text{NDF}: 25.4/20$

Left Out: -2.268 ± 1.029 $\chi^2/\text{NDF}: 15.4/24$

Right Out: 1.227 ± 0.915 $\chi^2/\text{NDF}: 26.4/25$

Left In: 1.305 ± 1.077 $\chi^2/\text{NDF}: 30.8/22$

Left: -0.562 ± 0.744 $\chi^2/\text{NDF}: 51.9/47$

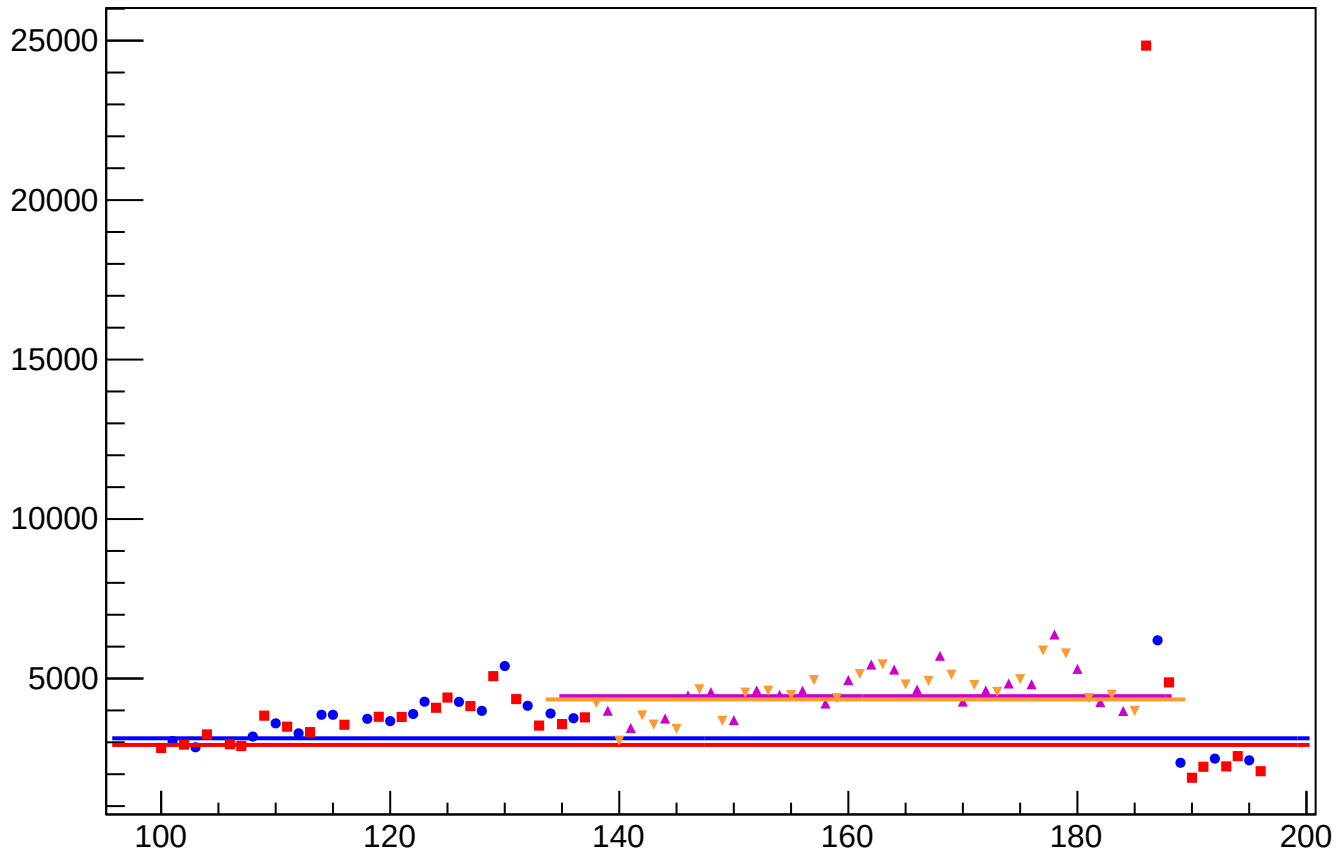
Right: 0.851 ± 0.698 $\chi^2/\text{NDF}: 52.2/46$

In: 0.817 ± 0.762 $\chi^2/\text{NDF}: 56.7/43$

Out: -0.316 ± 0.684 $\chi^2/\text{NDF}: 48.2/50$

All: 0.189 ± 0.509 $\chi^2/\text{NDF}: 106.1/94$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3125.541 $\pm$ 0.763 χ^2 /NDF: 908896.3/20

Left Out: 4345.381 $\pm$ 0.728 χ^2 /NDF:1000636.1/24

Right Out: 2917.918 $\pm$ 0.647 χ^2 /NDF: 2209741.8/25

Left In: 4446.181 $\pm$ 0.762 χ^2 /NDF:702797.6/22

Left: 4393.504 $\pm$ 0.526 χ^2 /NDF: 1712588.4/47

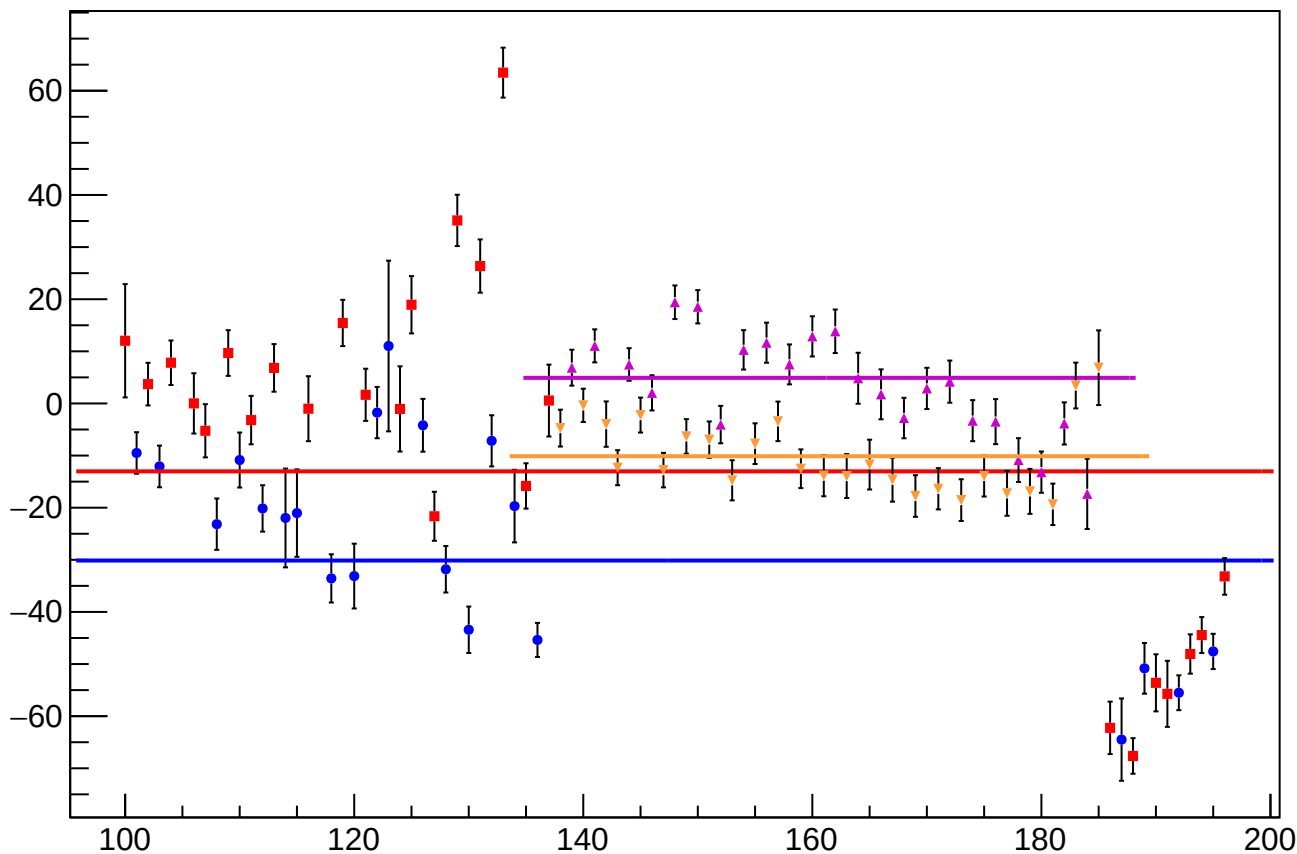
Right: 3004.770 $\pm$ 0.494 χ^2 /NDF: 3161675.7/46

In: 3787.341 $\pm$ 0.539 χ^2 /NDF:3111791.2/43

Out: 3548.252 $\pm$ 0.484 χ^2 /NDF:5357831.9/50

All: 3654.881 $\pm$ 0.360 χ^2 /NDF: 8578580.9/94

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -30.138 $\pm$ 1.039 χ^2/NDF : 312.2/20

Left Out: -10.125 $\pm$ 0.775 χ^2/NDF : 67.9/24

Right Out: -13.026 $\pm$ 0.927 χ^2/NDF : 1264.8/25

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

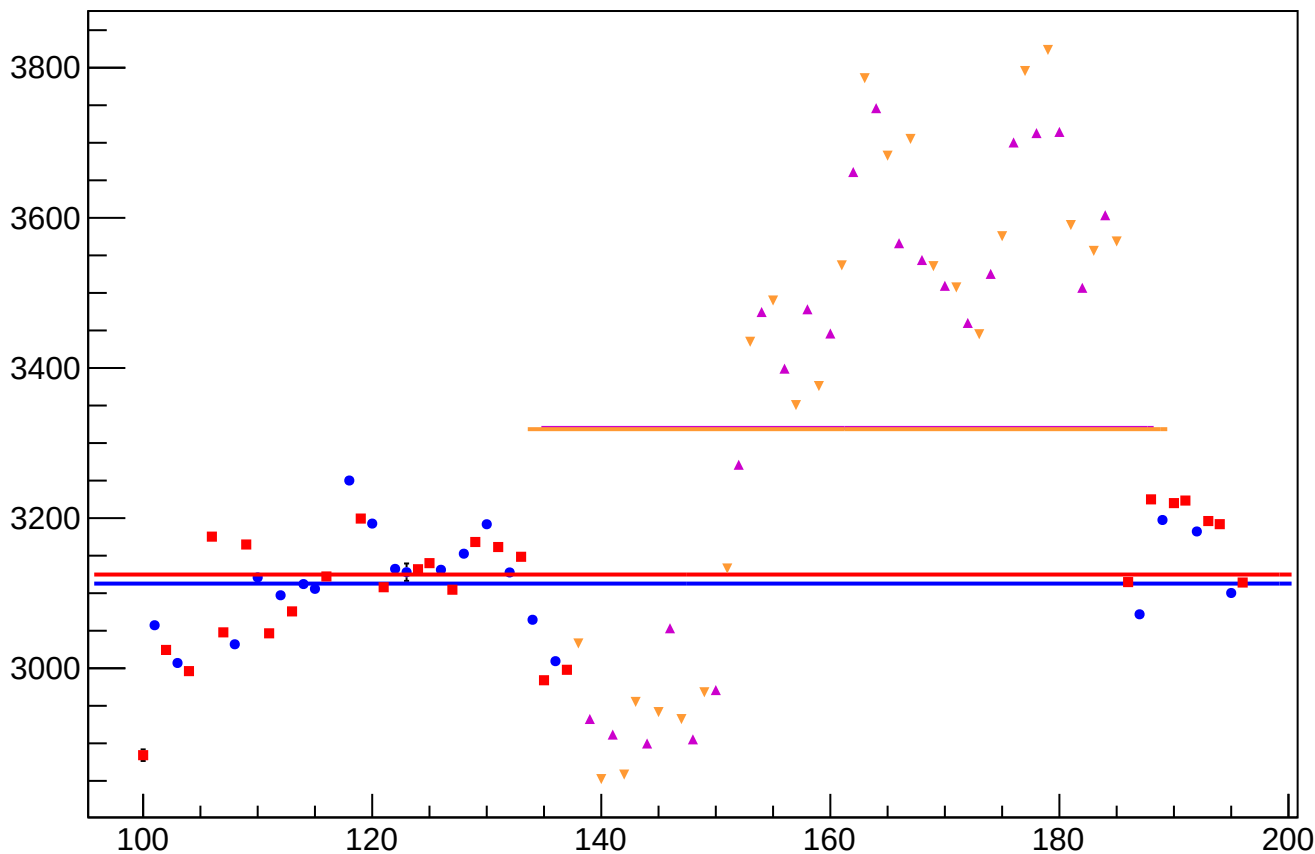
Right: -20.612 $\pm$ 0.692 χ^2/NDF : 1728.0/46

In: -8.078 $\pm$ 0.632 χ^2/NDF : 1156.7/43

Out: -11.319 $\pm$ 0.595 χ^2/NDF : 1338.5/50

All: -9.798 $\pm$ 0.433 χ^2/NDF : 2509.1/94

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.800+/-0.735 χ^2/NDF : 8964.6/20

Left Out: 3318.506+/-0.548 χ^2/NDF : 337694.2/24

Right Out: 3124.861+/-0.655 χ^2/NDF : 13608.5/25

Left In: 3320.170+/-0.564 χ^2/NDF : 287634.9/22

Left: 3319.315+/-0.393 χ^2/NDF : 625333.6/47

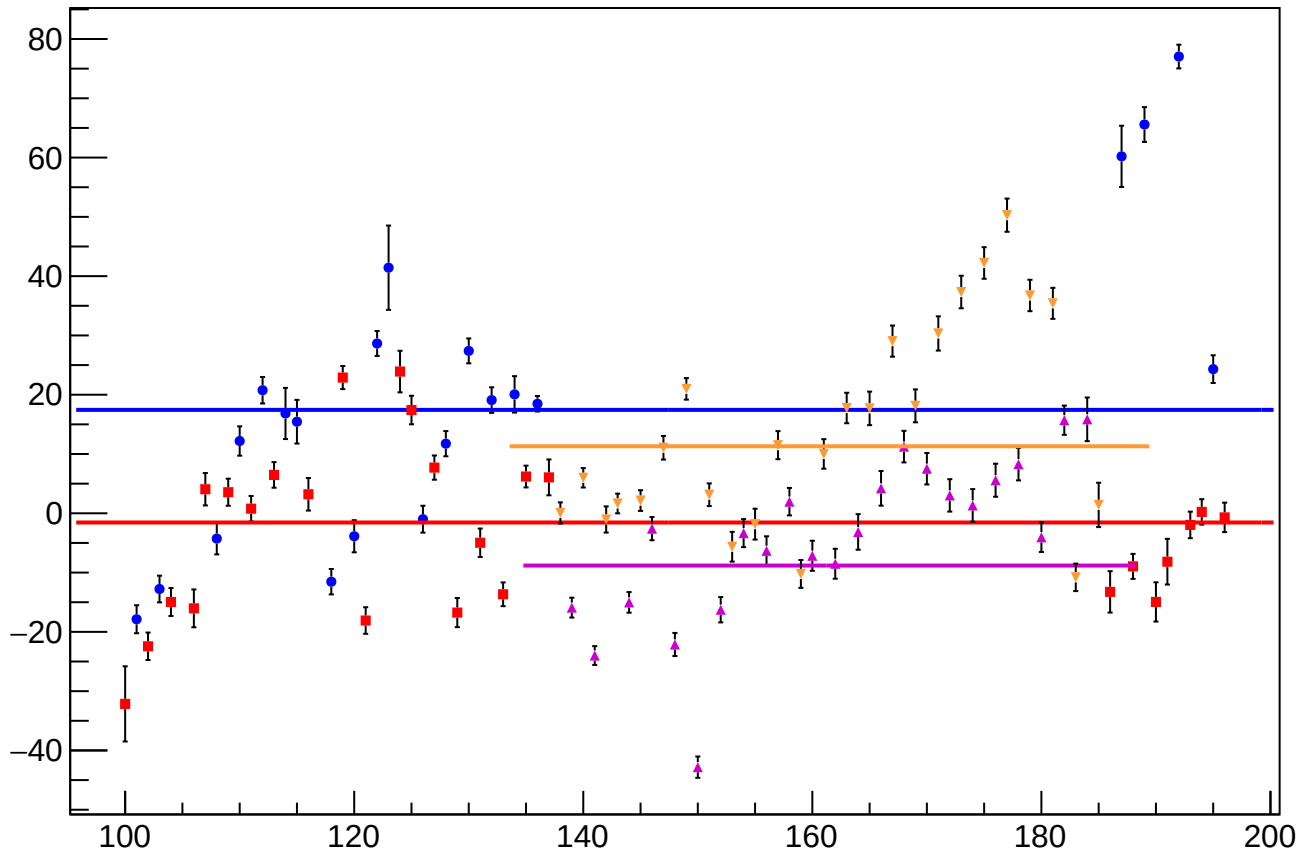
Right: 3119.515+/-0.489 χ^2/NDF : 22723.1/46

In: 3243.319+/-0.447 χ^2/NDF : 346761.0/43

Out: 3238.782+/-0.421 χ^2/NDF : 402648.7/50

All: 3240.912+/-0.306 χ^2/NDF : 749464.3/94

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.446 ± 0.517 $\chi^2/\text{NDF}: 2090.9/20$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -1.552 ± 0.478 $\chi^2/\text{NDF}: 677.2/25$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

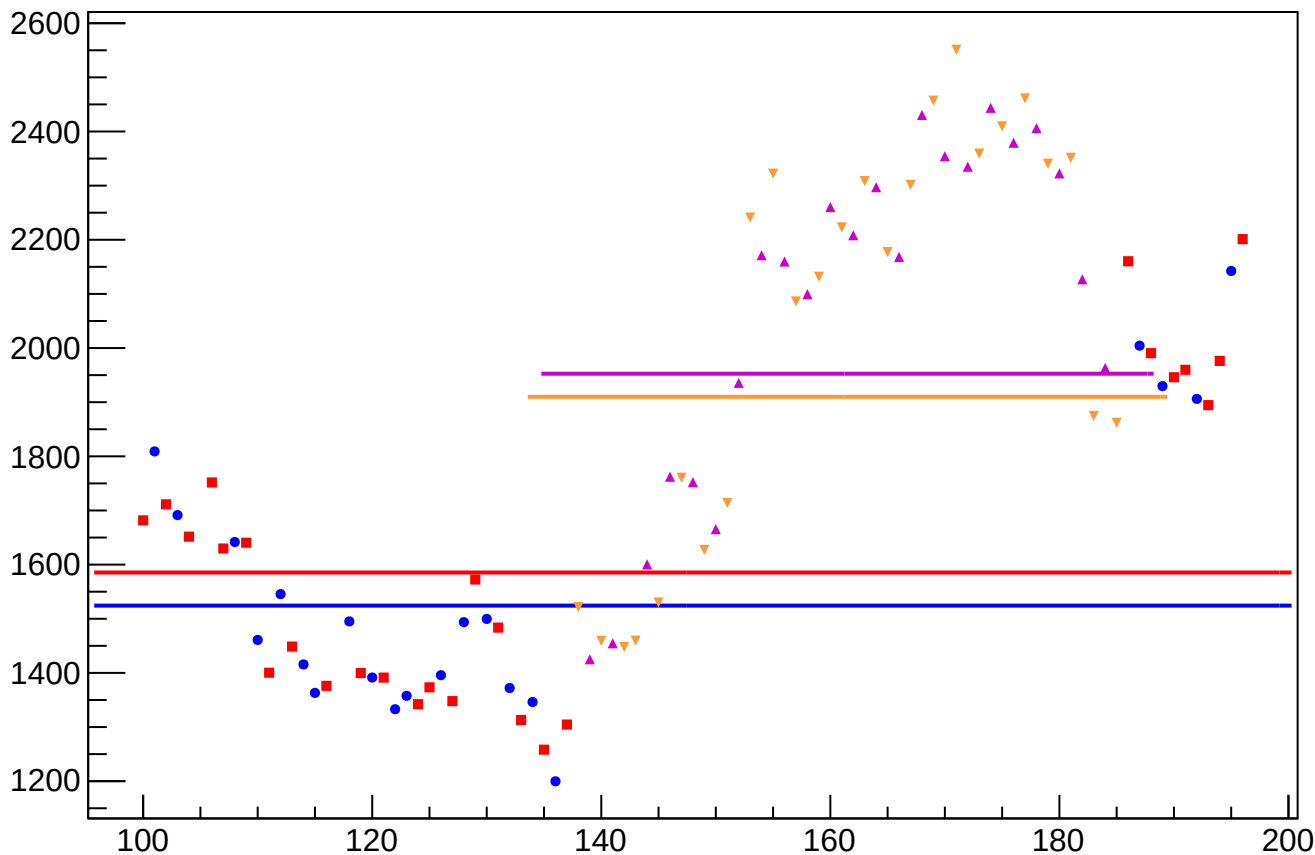
Right: 7.208 ± 0.351 $\chi^2/\text{NDF}: 3496.3/46$

In: 3.221 ± 0.350 $\chi^2/\text{NDF}: 4431.8/43$

Out: 5.210 ± 0.329 $\chi^2/\text{NDF}: 2201.9/50$

All: 4.276 ± 0.240 $\chi^2/\text{NDF}: 6650.8/94$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1524.285 $\pm$ 0.365 χ^2 /NDF: 488211.4/20

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1585.461 $\pm$ 0.338 χ^2 /NDF: 654451.5/25

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

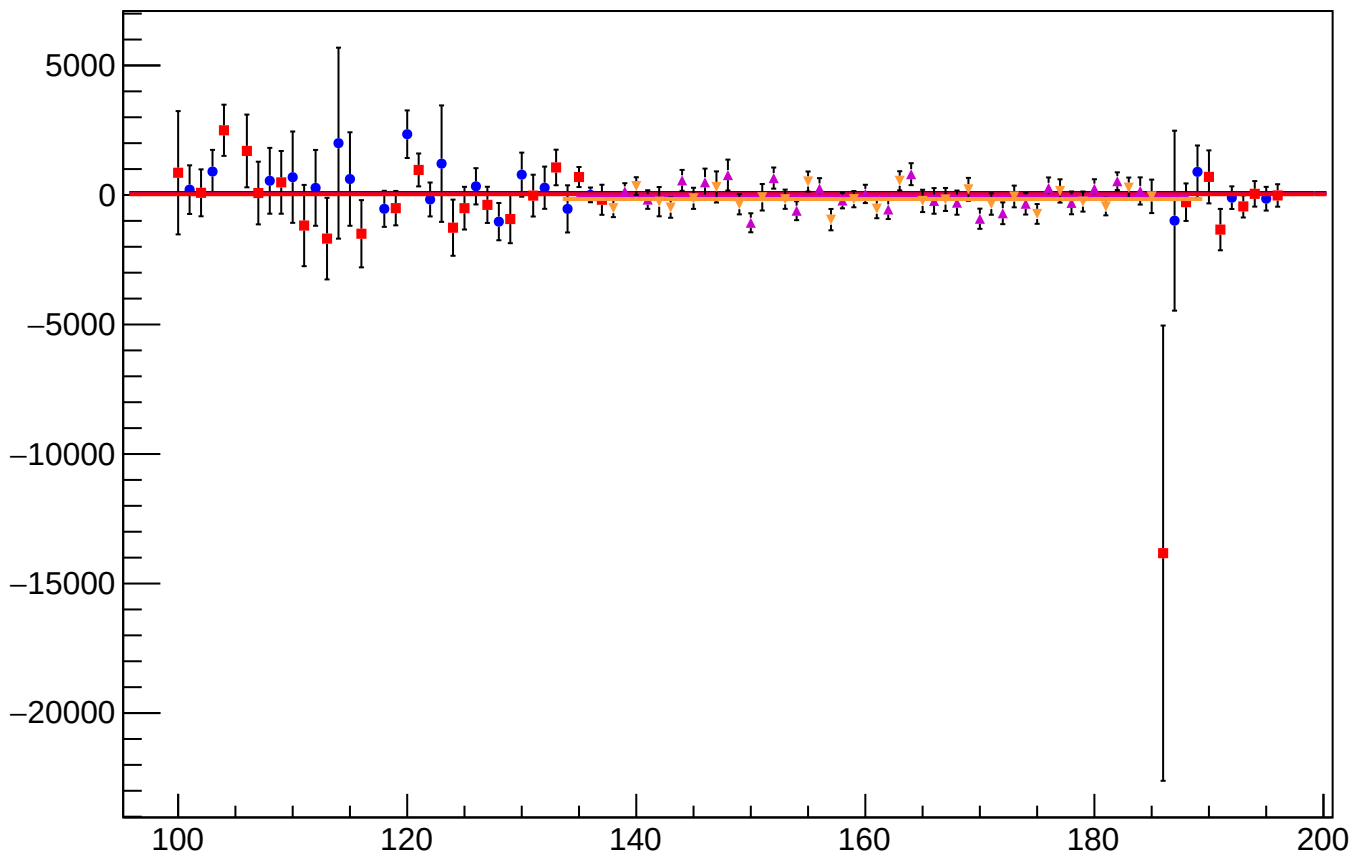
Right: 1557.253 $\pm$ 0.248 χ^2 /NDF: 1157765.8/46

In: 1756.319 $\pm$ 0.247 χ^2 /NDF:2297817.0/43

Out: 1756.131 $\pm$ 0.233 χ^2 /NDF:2538616.4/50

All: 1756.219 $\pm$ 0.170 χ^2 /NDF: 4836433.7/94

asym_sam1_mean vs Slug, Sign Corrected



Right In: 76.876 ± 154.848 $\chi^2/\text{NDF}: 13.8/20$

Left Out: -157.242 ± 80.796 $\chi^2/\text{NDF}: 22.0/24$

Right Out: 29.032 ± 143.413 $\chi^2/\text{NDF}: 29.8/25$

Left In: -58.934 ± 82.584 $\chi^2/\text{NDF}: 38.5/22$

Left: -109.164 ± 57.753 $\chi^2/\text{NDF}: 61.3/47$

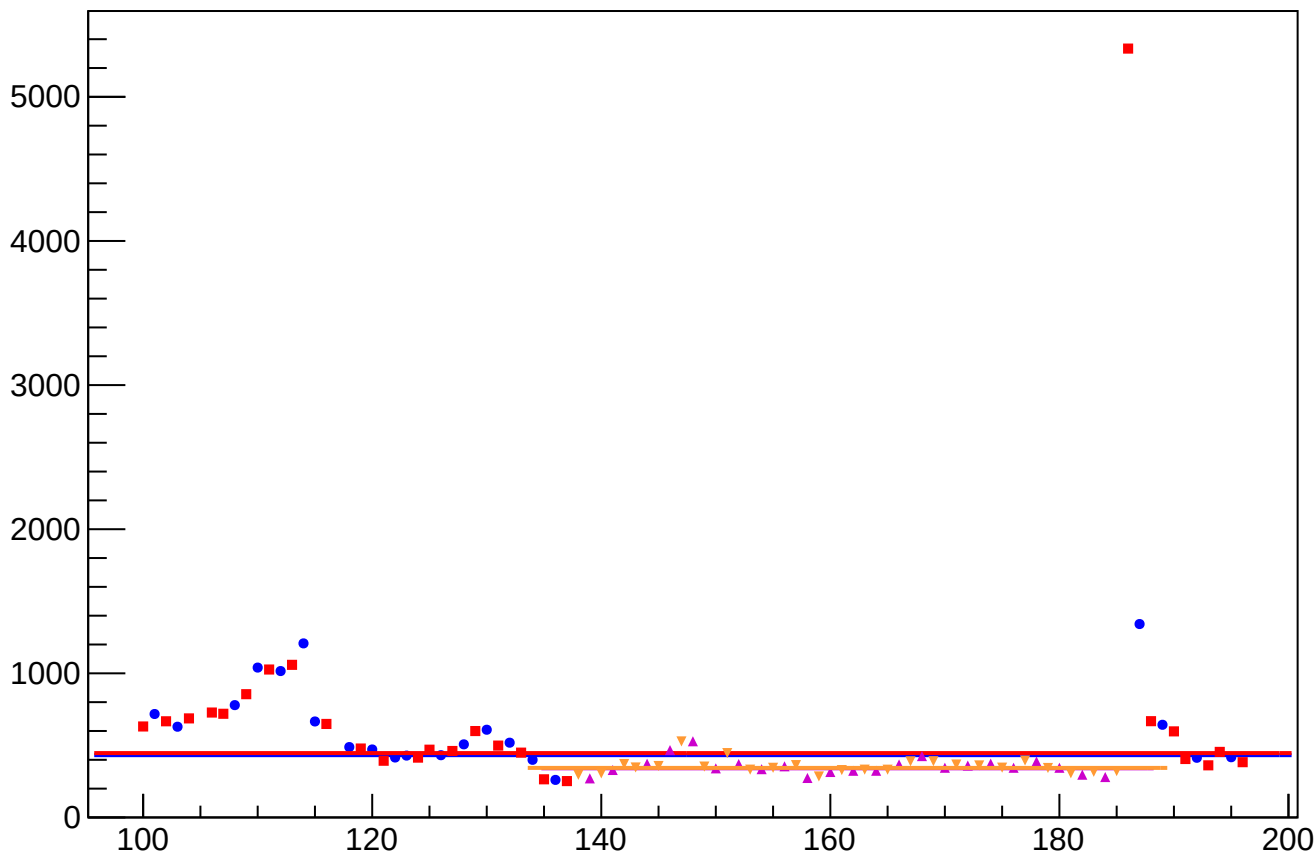
Right: 51.122 ± 105.219 $\chi^2/\text{NDF}: 43.6/46$

In: -28.859 ± 72.869 $\chi^2/\text{NDF}: 53.0/43$

Out: -112.364 ± 70.393 $\chi^2/\text{NDF}: 53.1/50$

All: -72.054 ± 50.628 $\chi^2/\text{NDF}: 106.7/94$

asym_sam1_rms vs Slug, Sign Corrected



Right In: 432.200 $\pm$ 0.109 χ^2 /NDF: 2236449.1/20

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 446.691 $\pm$ 0.101 χ^2 /NDF: 3011350.0/25

Left In: 340.876 $\pm$ 0.058 χ^2 /NDF: 724672.0/22

Left: 342.374 $\pm$ 0.041 χ^2 /NDF: 1265389.7/47

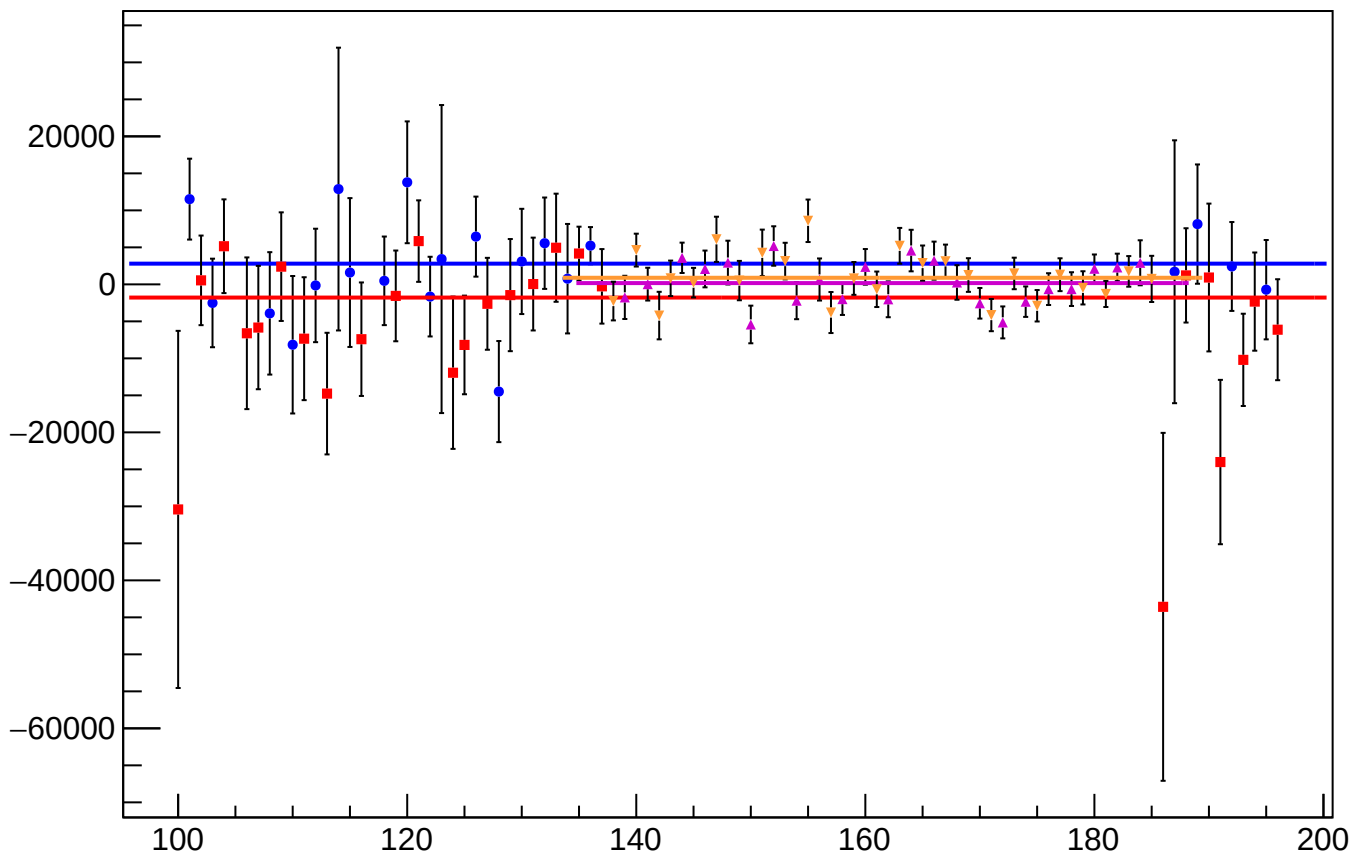
Right: 440.001 $\pm$ 0.074 χ^2 /NDF: 5257226.9/46

In: 361.100 $\pm$ 0.052 χ^2 /NDF: 3502720.4/43

Out: 368.594 $\pm$ 0.050 χ^2 /NDF: 4332113.6/50

All: 364.976 $\pm$ 0.036 χ^2 /NDF: 7845777.3/94

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2798.950+/-1356.332 χ^2 /NDF: 17.2/20

Left Out: 890.395+/-473.262 χ^2 /NDF:38.0/24

Right Out: -1783.788+/-1346.481 χ^2 /NDF: 24.3/25

Left In: 172.391+/-488.067 χ^2 /NDF:33.2/22

Left: 542.448+/-339.760 χ^2 /NDF: 72.3/47

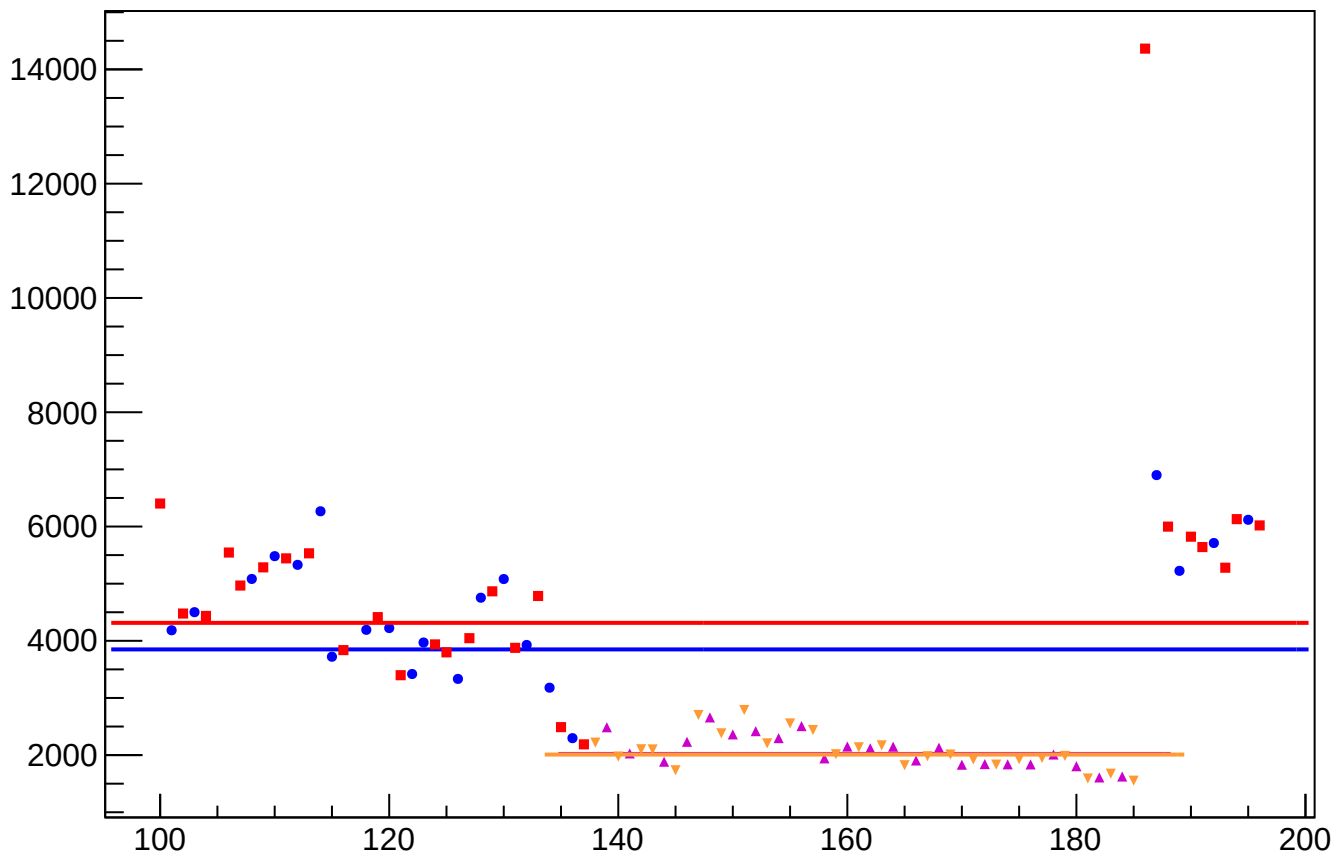
Right: 490.879+/-955.570 χ^2 /NDF: 47.3/46

In: 473.506+/-459.239 χ^2 /NDF:53.8/43

Out: 596.356+/-446.486 χ^2 /NDF:65.7/50

All: 536.661+/-320.127 χ^2 /NDF: 119.5/94

asym_sam2_rms vs Slug, Sign Corrected



Left: 2014.833 ± 0.240 $\chi^2/\text{NDF}: 1283959.2/47$

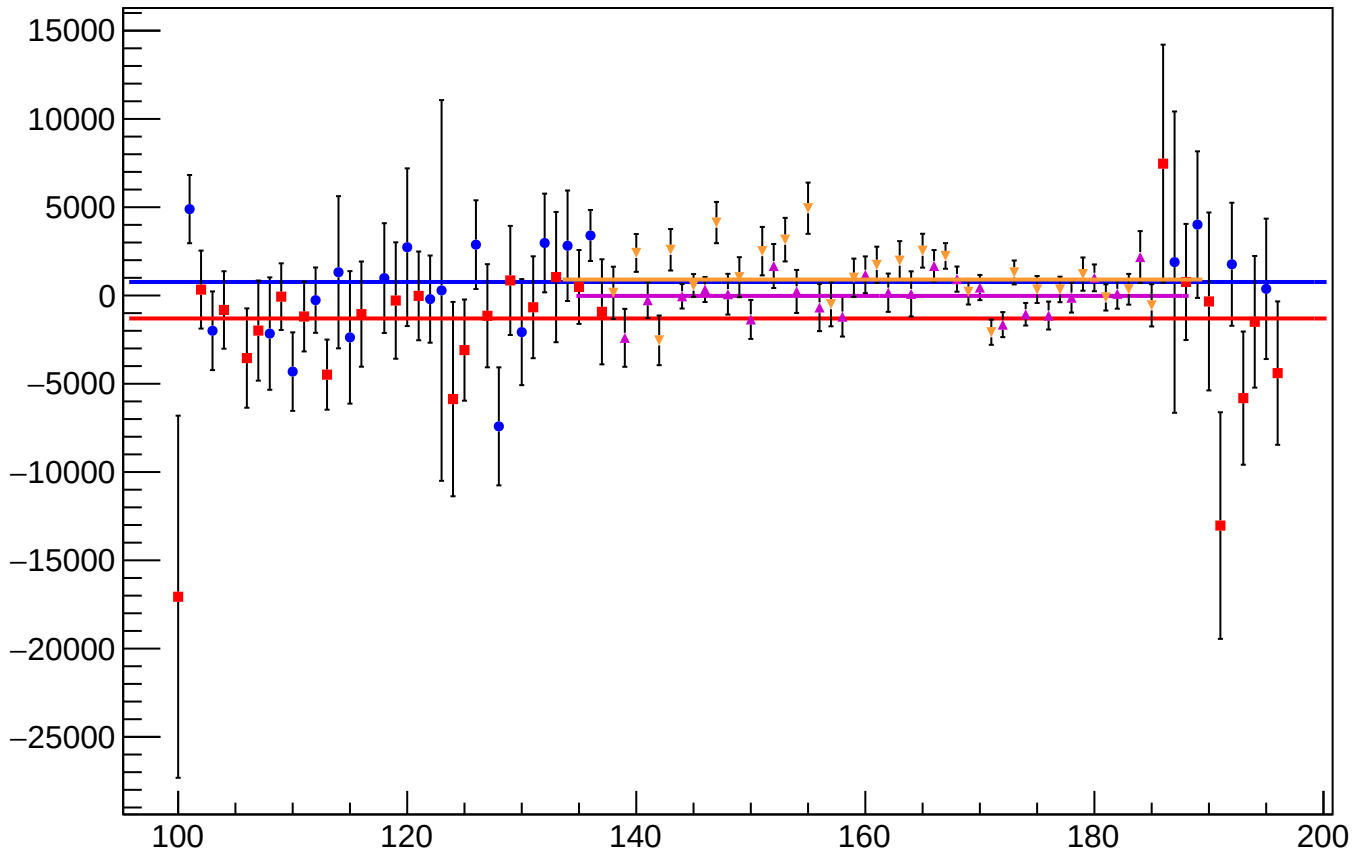
Right: 4083.739 ± 0.676 $\chi^2/\text{NDF}: 3866583.7/46$

In: 2230.084 ± 0.325 $\chi^2/\text{NDF}: 5494465.6/43$

Out: 2263.052 ± 0.316 $\chi^2/\text{NDF}: 7973891.7/50$

All: 2247.032 ± 0.226 $\chi^2/\text{NDF}: 13473655.9/59$

asym_sam3_mean vs Slug, Sign Corrected



Right In: 764.940 $\pm$ 597.842 χ^2 /NDF: 26.2/20

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF: 63.5/24

Right Out: -1301.567 $\pm$ 566.238 χ^2 /NDF: 17.3/25

Left In: -23.529 $\pm$ 188.137 χ^2 /NDF: 28.2/22

Left: 444.940 $\pm$ 132.217 χ^2 /NDF: 104.0/47

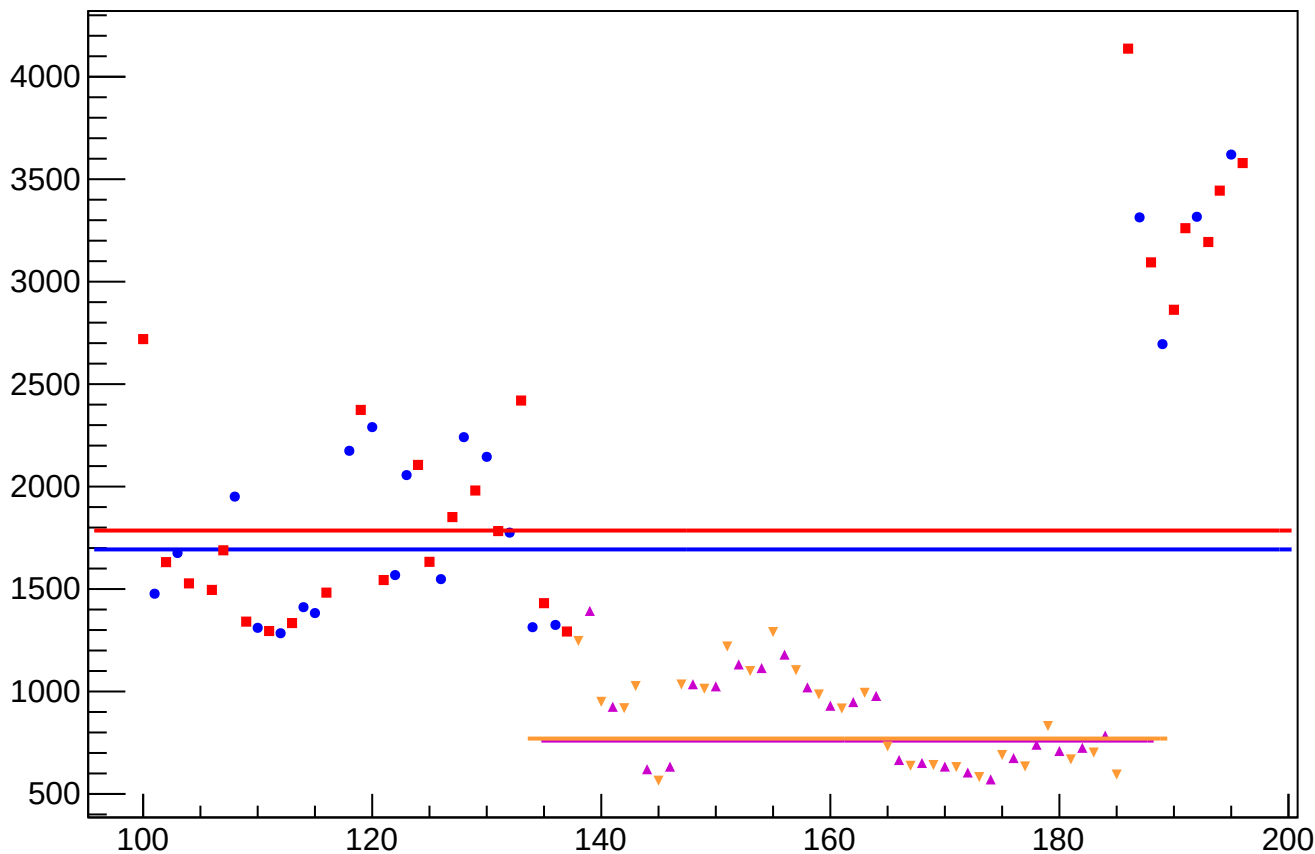
Right: -324.376 $\pm$ 411.110 χ^2 /NDF: 49.8/46

In: 47.518 $\pm$ 179.460 χ^2 /NDF: 56.0/43

Out: 687.783 $\pm$ 176.582 χ^2 /NDF: 94.5/50

All: 372.826 $\pm$ 125.868 χ^2 /NDF: 156.9/94

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1693.290 $\pm$ 0.423 χ^2/NDF : 1667561.8/20

Left Out: 770.320 $\pm$ 0.131 χ^2/NDF : 2287655.1/24

Right Out: 1785.486 $\pm$ 0.400 χ^2/NDF : 2532471.7/25

Left In: 760.352 $\pm$ 0.133 χ^2/NDF : 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2/NDF : 4277246.5/47

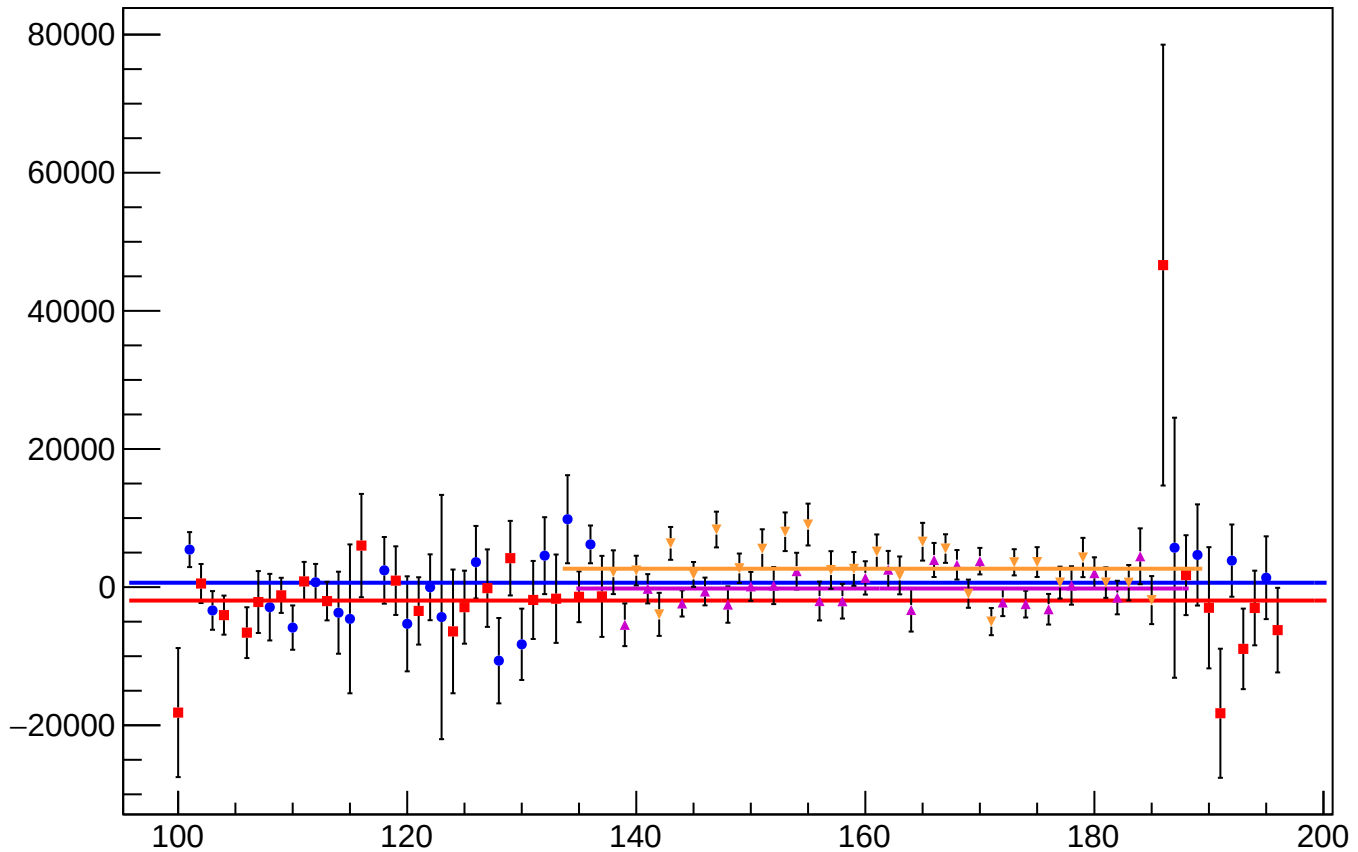
Right: 1741.889 $\pm$ 0.291 χ^2/NDF : 4225106.0/46

In: 844.417 $\pm$ 0.127 χ^2/NDF : 8085835.7/43

Out: 869.046 $\pm$ 0.125 χ^2/NDF : 10623405.5/50

All: 856.931 $\pm$ 0.089 χ^2/NDF : 18728380.1/94

asym_sam4_mean vs Slug, Sign Corrected



Right In: 636.786 ± 957.923 $\chi^2/\text{NDF}: 26.1/20$

Left Out: 2665.587 ± 479.773 $\chi^2/\text{NDF}: 49.2/24$

Right Out: -1943.509 ± 872.917 $\chi^2/\text{NDF}: 18.0/25$

Left In: -199.371 ± 492.082 $\chi^2/\text{NDF}: 25.8/22$

Left: 1269.388 ± 343.520 $\chi^2/\text{NDF}: 92.4/47$

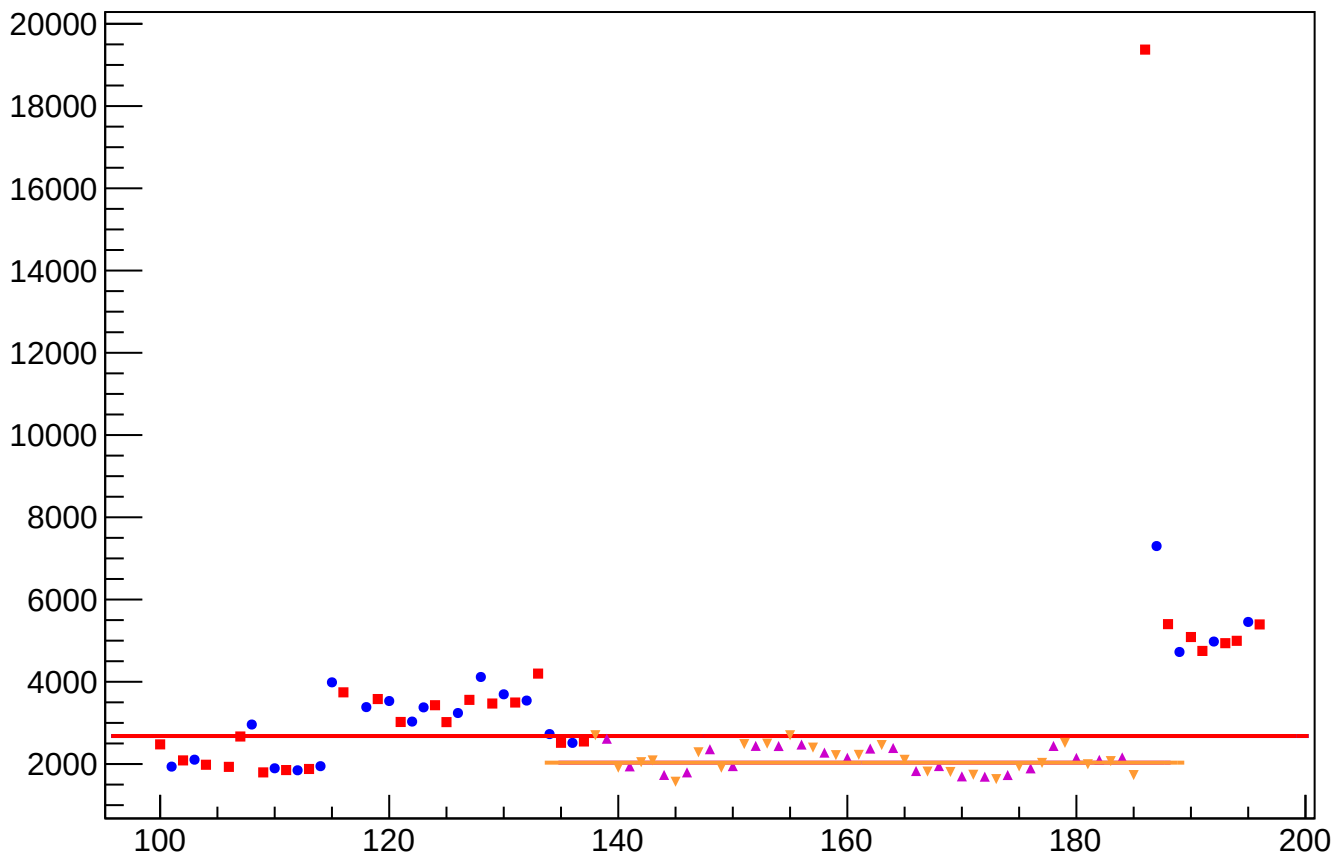
Right: -772.907 ± 645.209 $\chi^2/\text{NDF}: 48.1/46$

In: -24.791 ± 437.707 $\chi^2/\text{NDF}: 52.5/43$

Out: 1596.278 ± 420.452 $\chi^2/\text{NDF}: 88.6/50$

All: 818.325 ± 303.221 $\chi^2/\text{NDF}: 148.3/94$

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2680.796 $\pm$ 0.677 χ^2 /NDF: 2080930.0/20

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2681.429 $\pm$ 0.617 χ^2 /NDF: 3558279.6/25

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

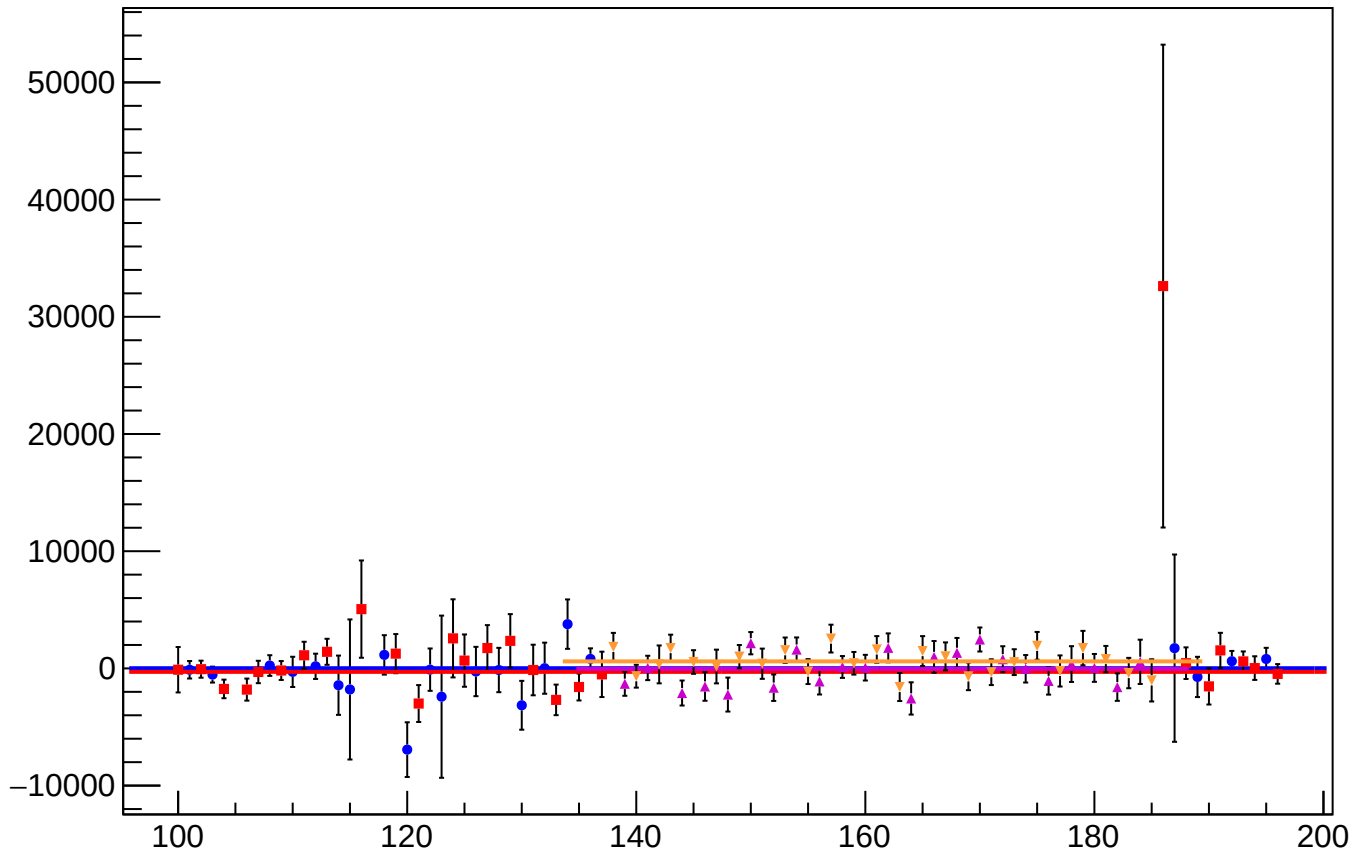
Right: 2681.142 $\pm$ 0.456 χ^2 /NDF: 5639210.1/46

In: 2167.979 $\pm$ 0.310 χ^2 /NDF: 3458131.4/43

Out: 2183.694 $\pm$ 0.297 χ^2 /NDF: 5229021.3/50

All: 2176.152 $\pm$ 0.214 χ^2 /NDF: 8688493.5/94

asym_sam5_mean vs Slug, Sign Corrected



Right In: 15.806 ± 278.219 $\chi^2/\text{NDF}: 18.4/20$

Left Out: 600.005 ± 234.968 $\chi^2/\text{NDF}: 18.5/24$

Right Out: -294.379 ± 237.805 $\chi^2/\text{NDF}: 29.7/25$

Left In: -41.559 ± 240.807 $\chi^2/\text{NDF}: 36.4/22$

Left: 287.096 ± 168.174 $\chi^2/\text{NDF}: 58.5/47$

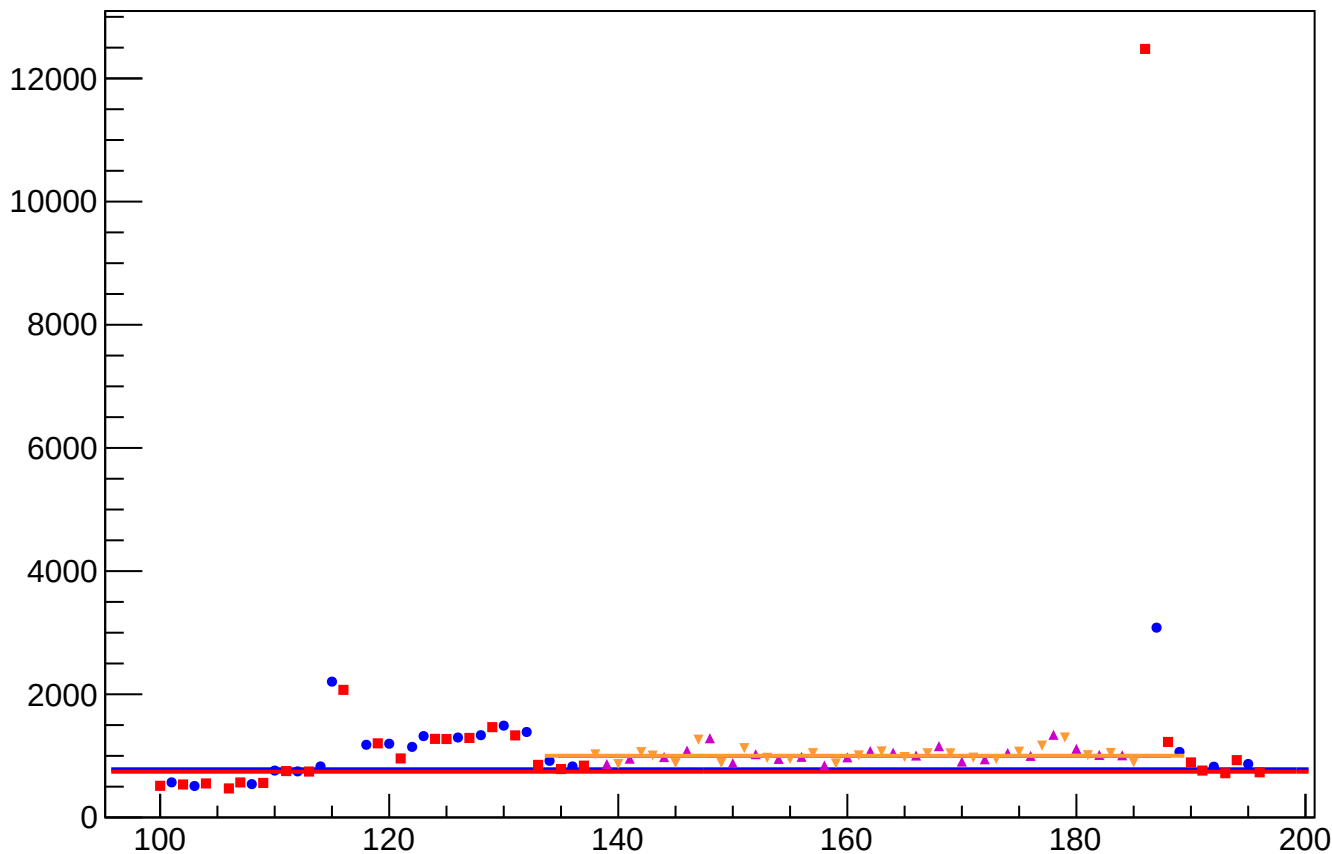
Right: -163.431 ± 180.769 $\chi^2/\text{NDF}: 48.8/46$

In: -16.990 ± 182.078 $\chi^2/\text{NDF}: 54.8/43$

Out: 158.180 ± 167.141 $\chi^2/\text{NDF}: 55.3/50$

All: 78.073 ± 123.129 $\chi^2/\text{NDF}: 110.6/94$

asym_sam5_rms vs Slug, Sign Corrected



Right In: 781.929+/-0.197 χ^2/NDF : 1945275.6/20

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 742.468+/-0.168 χ^2/NDF : 2727065.7/25

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

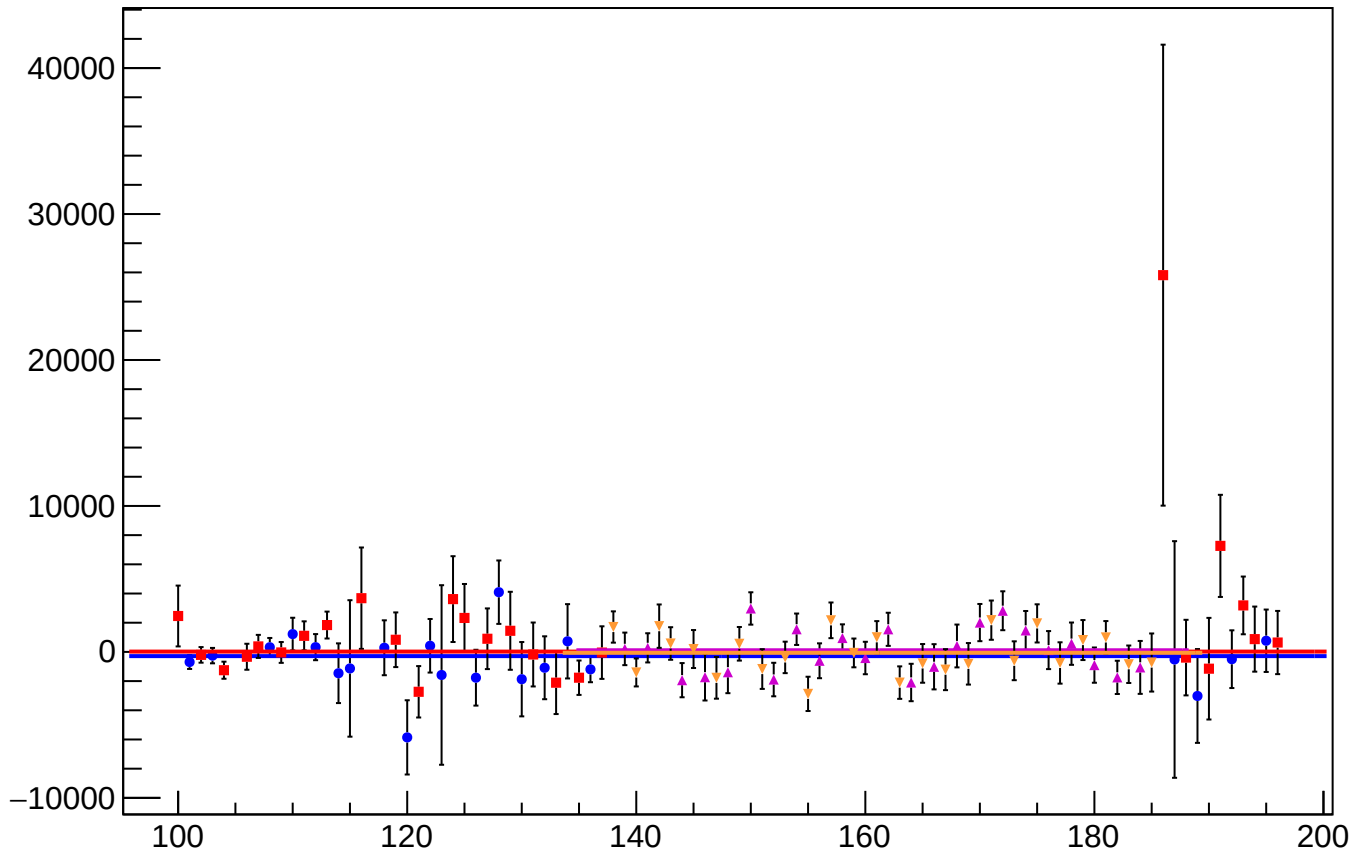
Right: 759.127+/-0.128 χ^2/NDF : 4695591.0/46

In: 905.487+/-0.129 χ^2/NDF : 3039891.8/43

Out: 873.524+/-0.118 χ^2/NDF : 4297837.6/50

All: 888.141+/-0.087 χ^2/NDF : 7371178.0/94

asym_sam6_mean vs Slug, Sign Corrected



Left: 23.230 $\pm$ 177.369 χ^2/NDF : 66.1/47

Right: -128.729 $\pm$ 171.540 χ^2/NDF : 49.2/46

In: -95.620 $\pm$ 177.251 χ^2/NDF : 52.9/43

Out: -17.465 $\pm$ 171.648 χ^2/NDF : 62.7/50

All: -55.287 $\pm$ 123.307 χ^2/NDF : 115.7/94

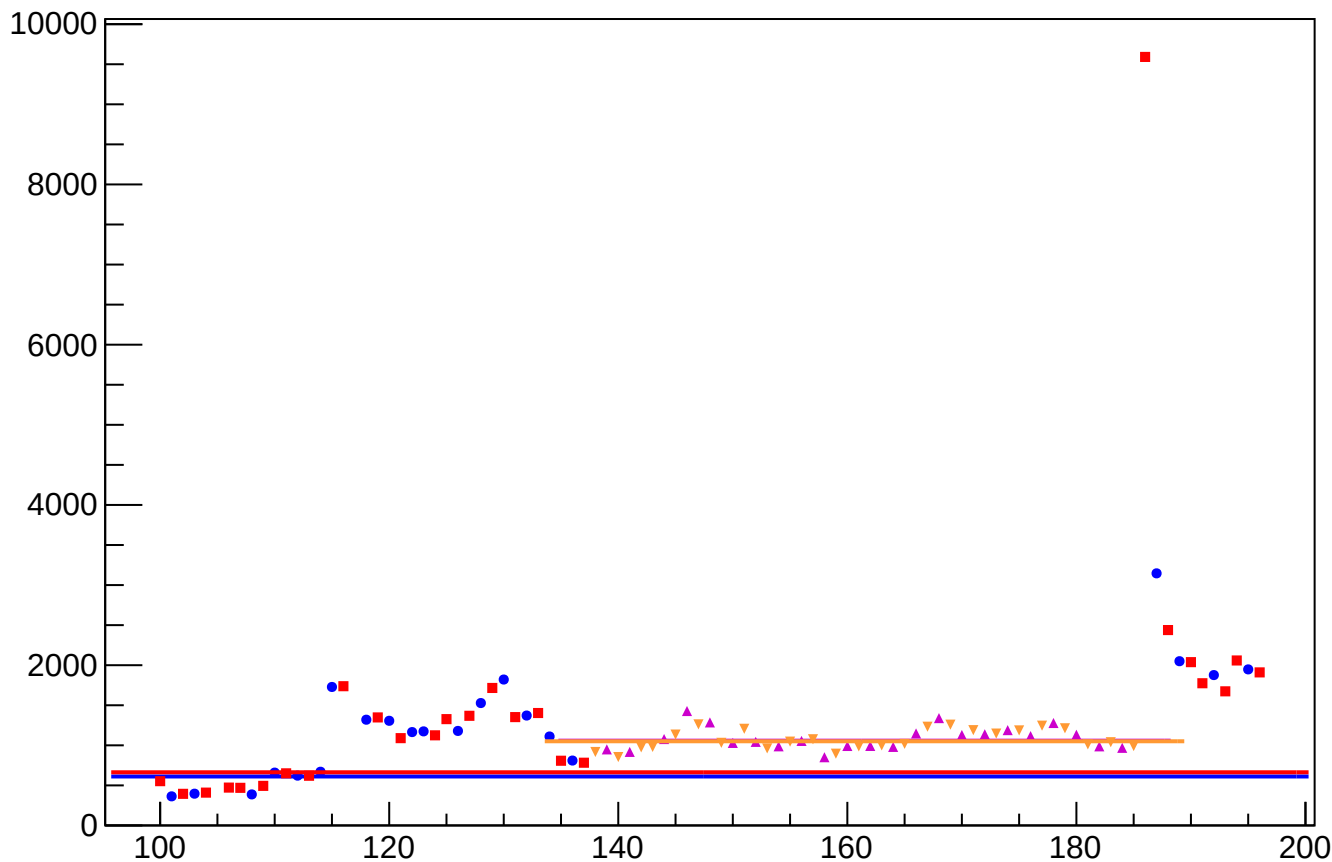
Right In: -288.885 $\pm$ 246.186 χ^2/NDF : 16.8/20

Left Out: -59.827 $\pm$ 246.503 χ^2/NDF : 31.0/24

Right Out: 22.410 $\pm$ 239.156 χ^2/NDF : 31.6/25

Left In: 112.398 $\pm$ 255.409 χ^2/NDF : 34.9/22

asym_sam6_rms vs Slug, Sign Corrected



Right In: 611.215+/-0.174 χ^2/NDF : 5487838.5/20

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 663.733+/-0.169 χ^2/NDF : 7082062.7/25

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

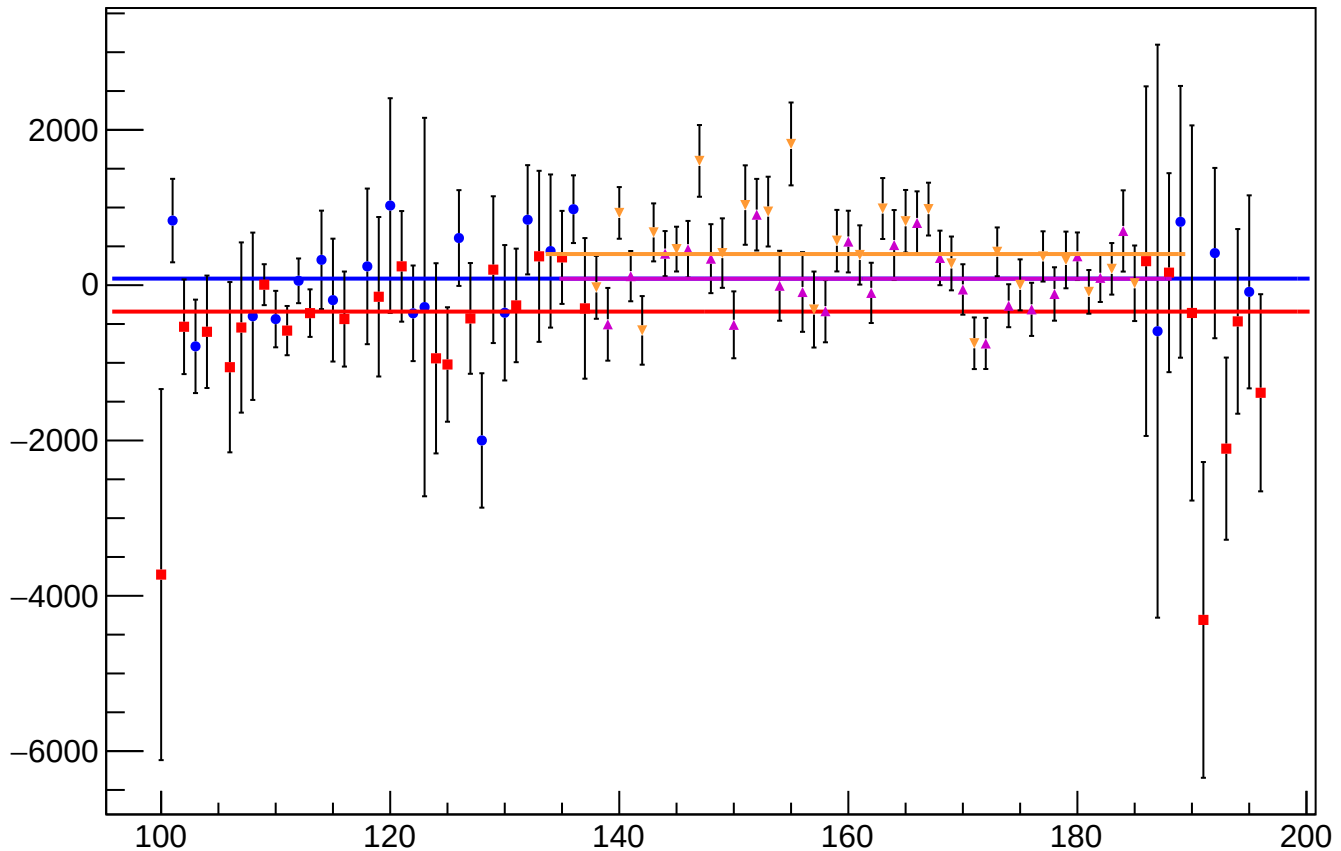
Right: 638.234+/-0.121 χ^2/NDF : 12616726.6/46

In: 826.442+/-0.125 χ^2/NDF : 9190301.9/43

Out: 851.339+/-0.121 χ^2/NDF : 10103440.6/50

All: 839.290+/-0.087 χ^2/NDF : 19314106.3/94

asym_sam7_mean vs Slug, Sign Corrected



Right In: 84.639+/-140.585 χ^2/NDF : 20.2/20

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -340.193+/-126.374 χ^2/NDF : 16.0/25

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

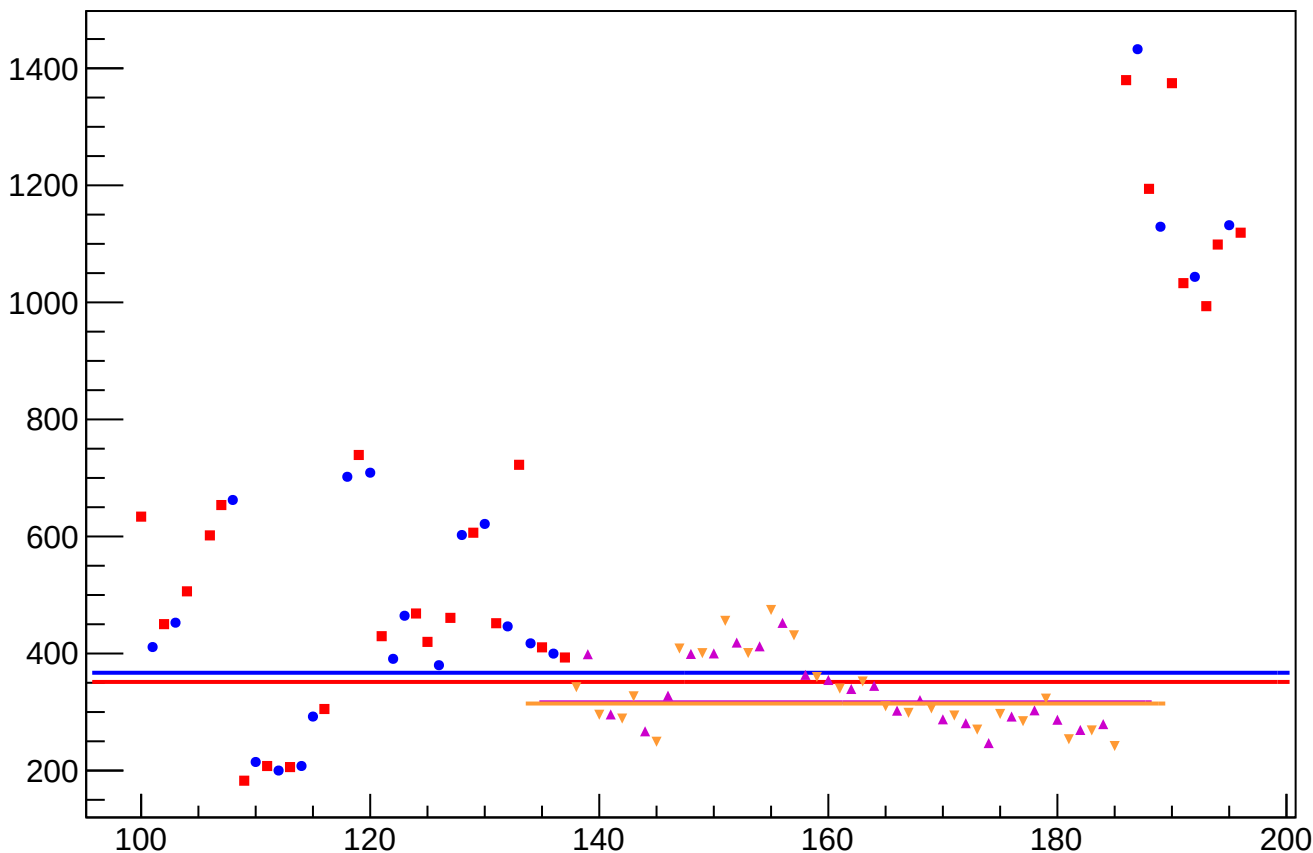
Right: -150.327+/-93.984 χ^2/NDF : 41.2/46

In: 83.292+/-67.469 χ^2/NDF : 49.2/43

Out: 209.658+/-64.208 χ^2/NDF : 93.6/50

All: 149.603+/-46.512 χ^2/NDF : 144.6/94

asym_sam7_rms vs Slug, Sign Corrected



Right In: 367.128+/-0.099 χ^2/NDF : 4150688.2/20

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 351.436+/-0.089 χ^2/NDF : 6934845.4/25

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

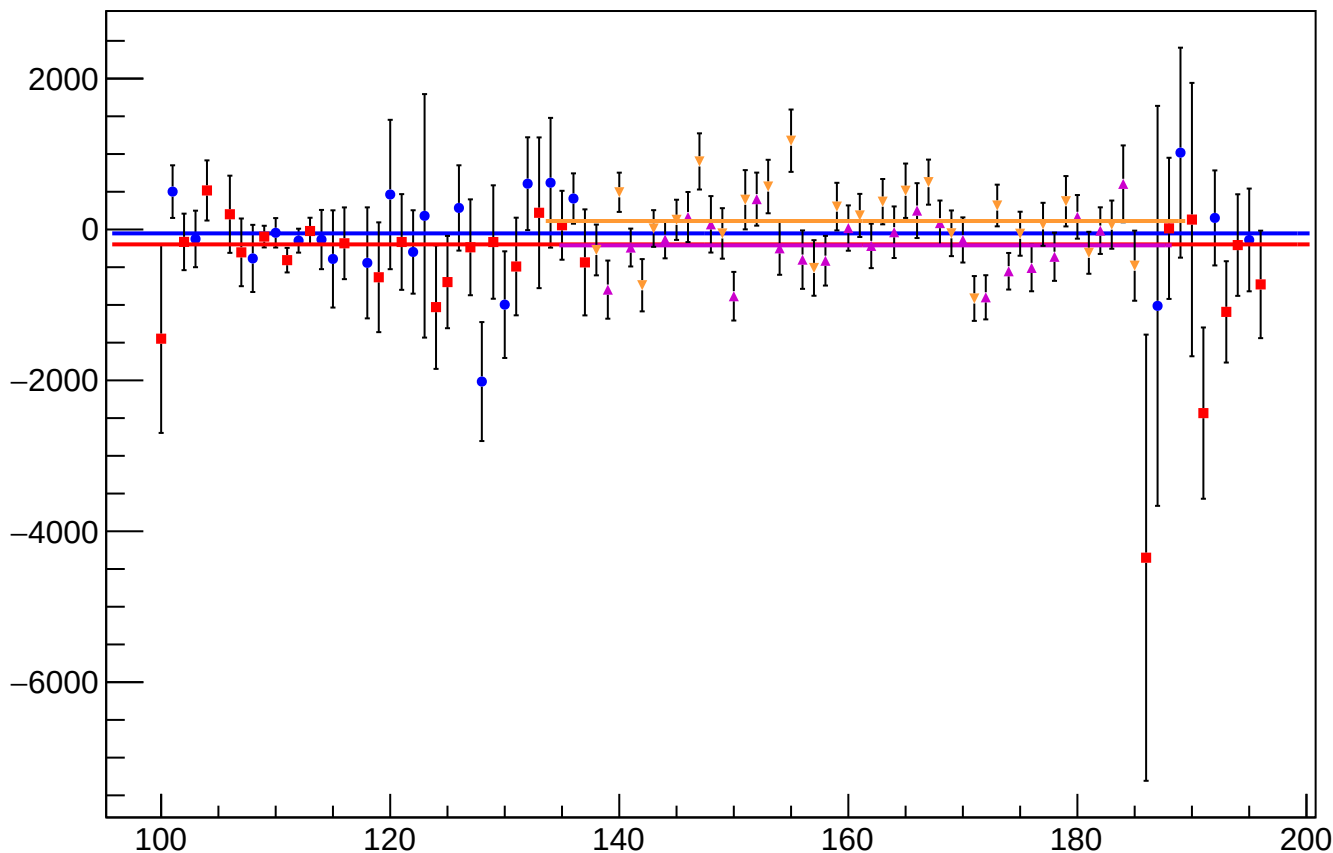
Right: 358.449+/-0.066 χ^2/NDF : 11099313.9/46

In: 328.274+/-0.048 χ^2/NDF : 5270043.4/43

Out: 324.063+/-0.045 χ^2/NDF : 8173778.4/50

All: 326.064+/-0.033 χ^2/NDF : 13447908.8/94

asym_sam8_mean vs Slug, Sign Corrected



Right In: -51.724 ± 88.767 χ^2/NDF : 17.4/20

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -197.457 ± 75.051 χ^2/NDF : 19.2/25

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

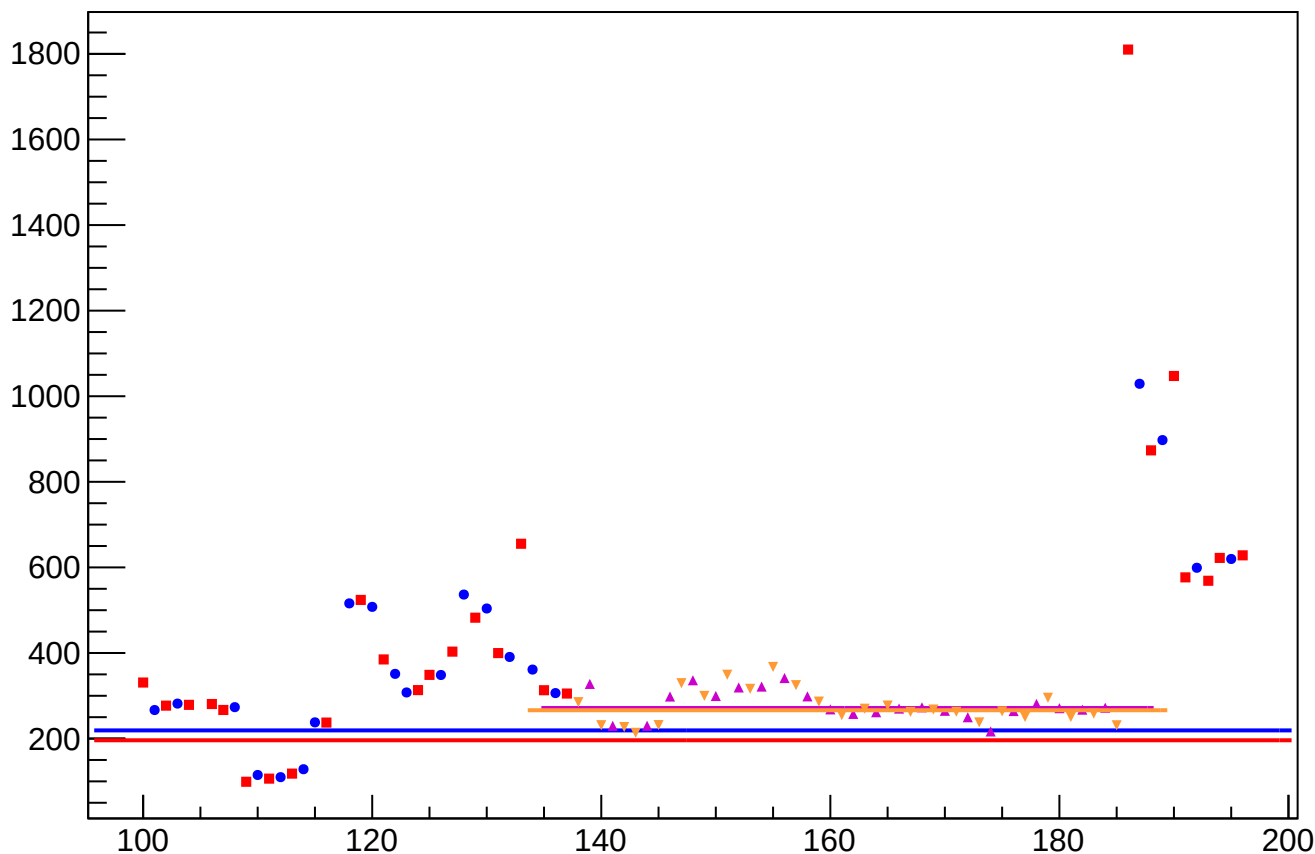
Right: -136.707 ± 57.312 χ^2/NDF : 38.2/46

In: -154.484 ± 52.710 χ^2/NDF : 48.7/43

Out: -14.926 ± 48.092 χ^2/NDF : 78.4/50

All: -78.325 ± 35.527 χ^2/NDF : 130.9/94

asym_sam8_rms vs Slug, Sign Corrected



Right In: 219.106 $\pm$ 0.063 χ^2 /NDF: 5551141.3/20

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 196.028 $\pm$ 0.053 χ^2 /NDF: 8751114.4/25

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

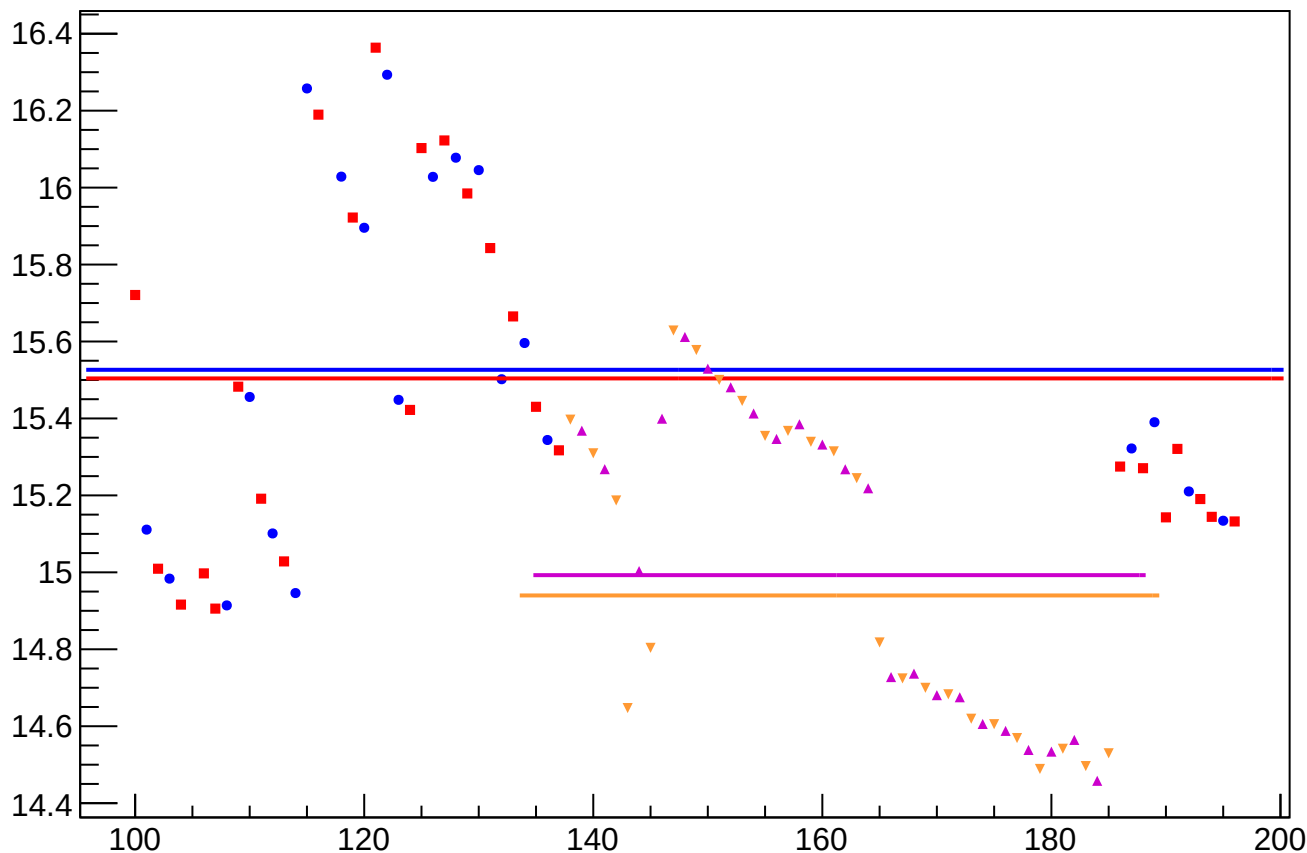
Right: 205.648 $\pm$ 0.041 χ^2 /NDF: 14381092.8/46

In: 252.971 $\pm$ 0.037 χ^2 /NDF: 6522636.7/43

Out: 237.390 $\pm$ 0.034 χ^2 /NDF: 10431457.2/50

All: 244.468 $\pm$ 0.025 χ^2 /NDF: 17049452.7/94

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.526 $\pm$ 0.000 χ^2 /NDF: 7327005895.3/20

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.504 $\pm$ 0.000 χ^2 /NDF: 8146573112.1/25

Left In: 14.993 $\pm$ 0.000 χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2 /NDF: 46444749587.5/47

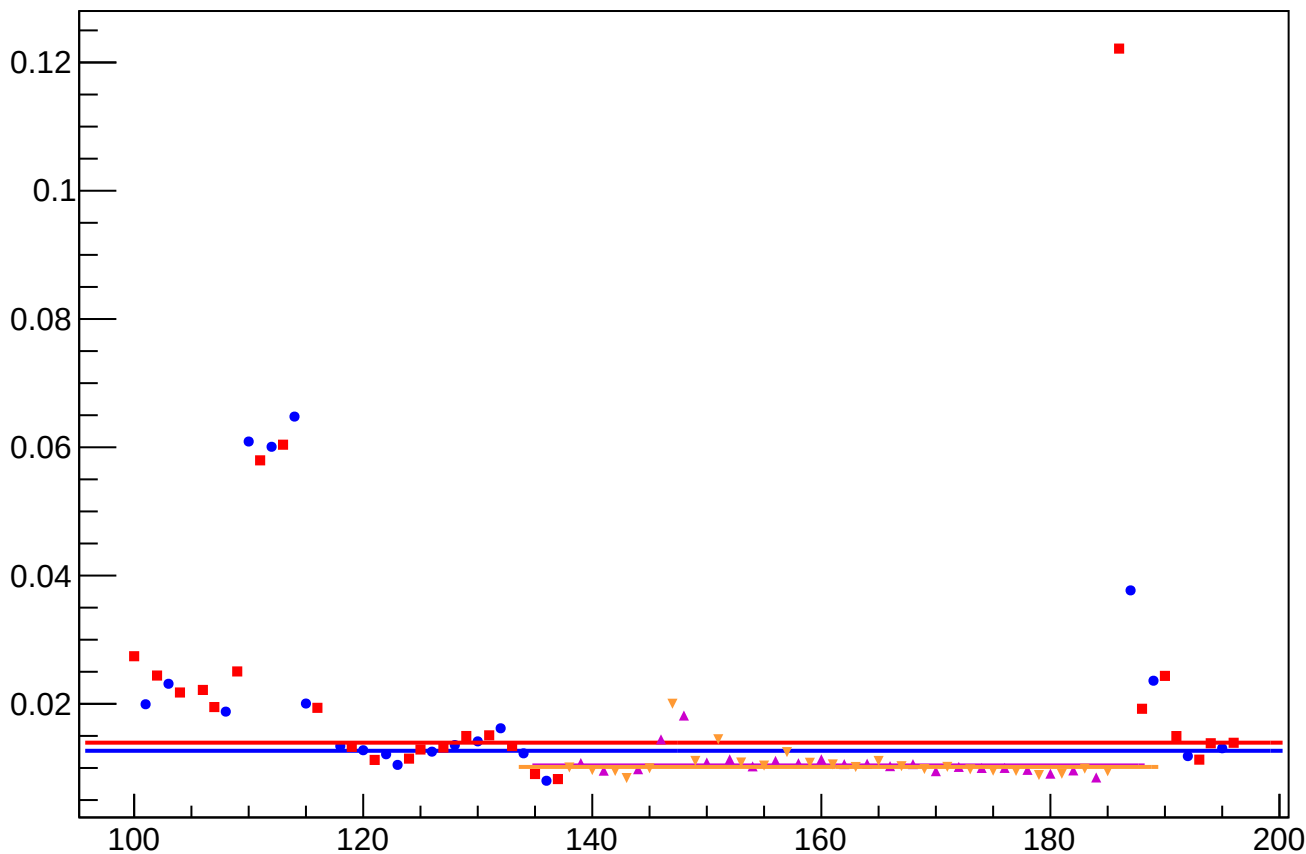
Right: 15.515 $\pm$ 0.000 χ^2 /NDF: 15485118468.4/46

In: 15.115 $\pm$ 0.000 χ^2 /NDF: 39260946210.0/43

Out: 15.063 $\pm$ 0.000 χ^2 /NDF: 43947469804.9/50

All: 15.088 $\pm$ 0.000 χ^2 /NDF: 83484397397.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2457866.2/20

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2973264.7/25

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

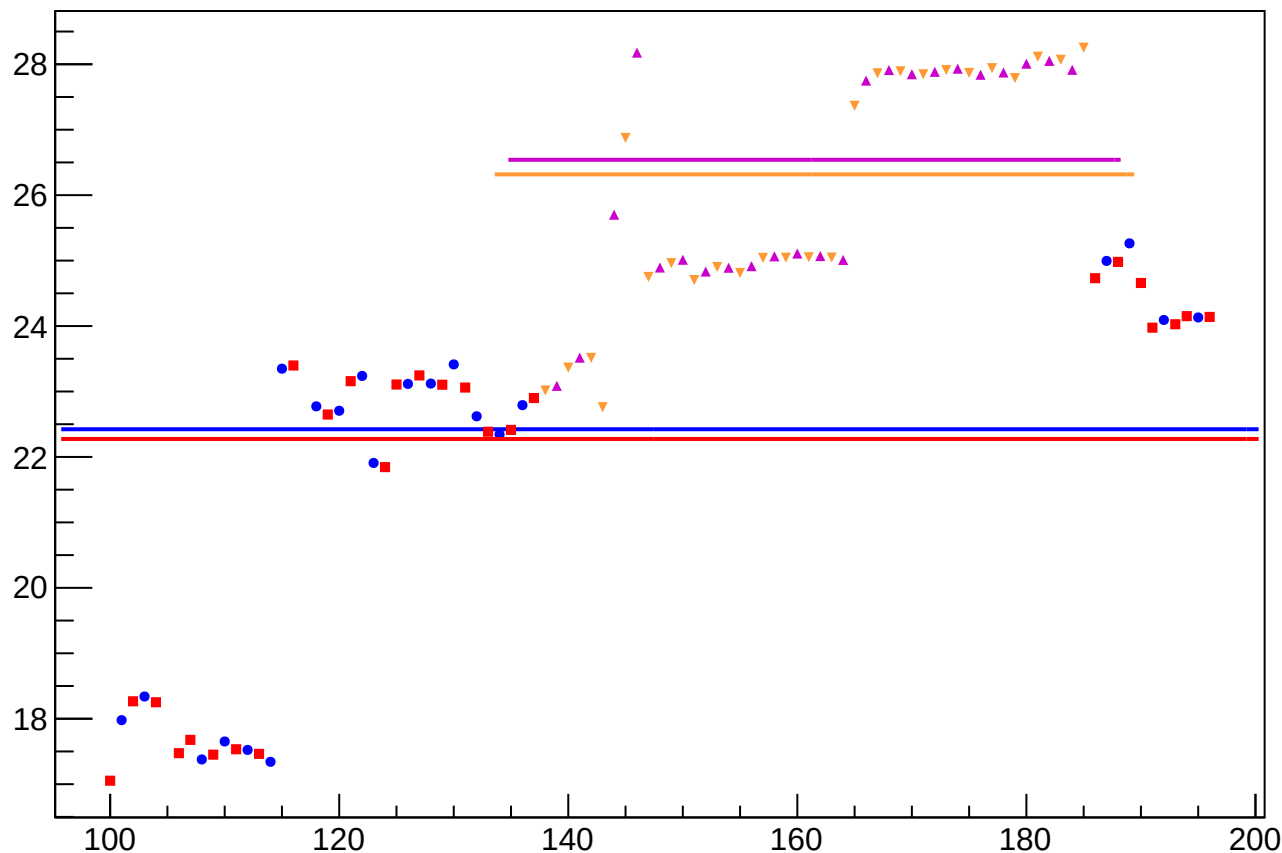
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 5504671.7/46

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3364704.9/43

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 4734329.2/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8100002.3/94

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.423+/-0.000 χ^2/NDF : 1029140650.8/20

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 22.275+/-0.000 χ^2/NDF : 1261376126.8/25

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

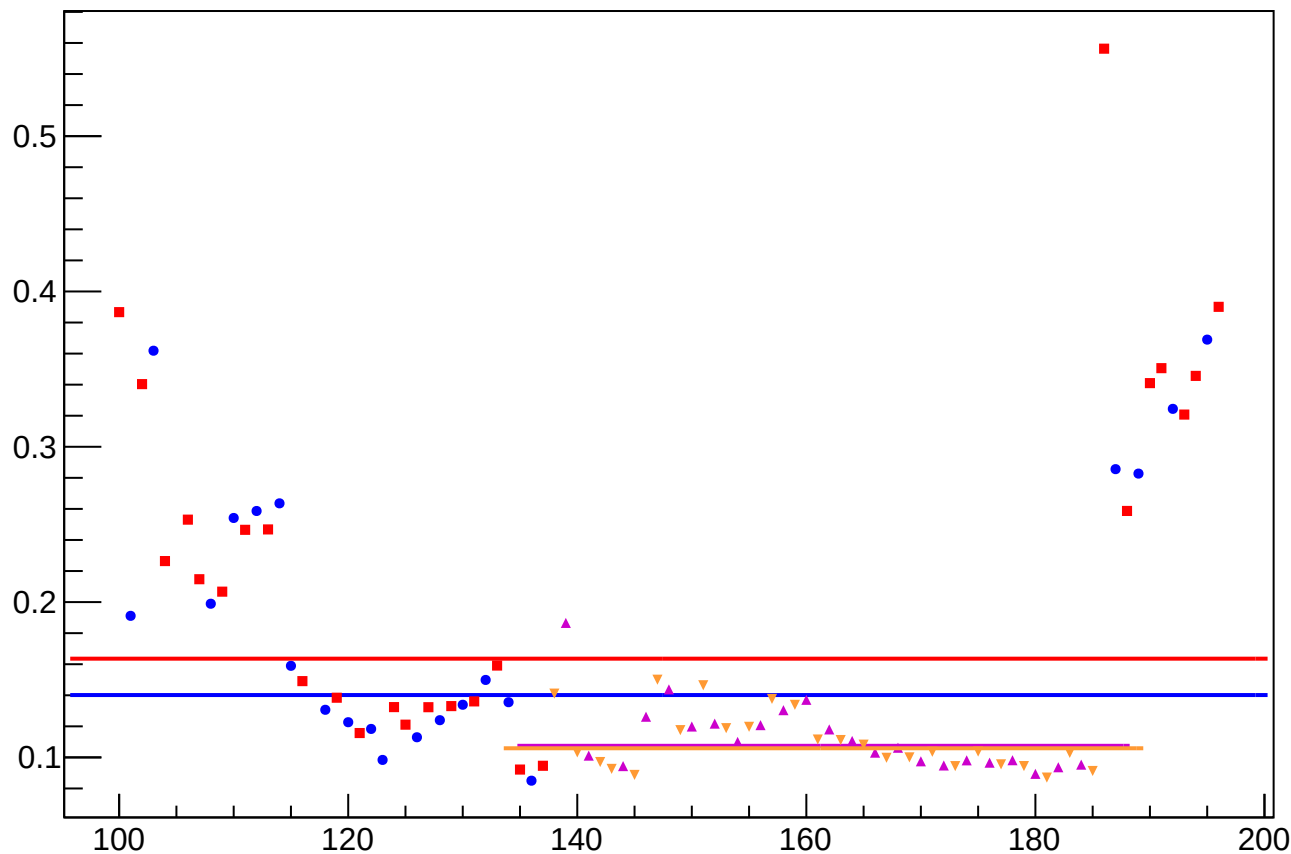
Right: 22.351+/-0.000 χ^2/NDF : 2294069061.1/46

In: 25.701+/-0.000 χ^2/NDF : 8815294222.7/43

Out: 25.584+/-0.000 χ^2/NDF : 10157640424.4/50

All: 25.641+/-0.000 χ^2/NDF : 18984296033.6

yield_sam2_rms vs Slug, Sign Corrected

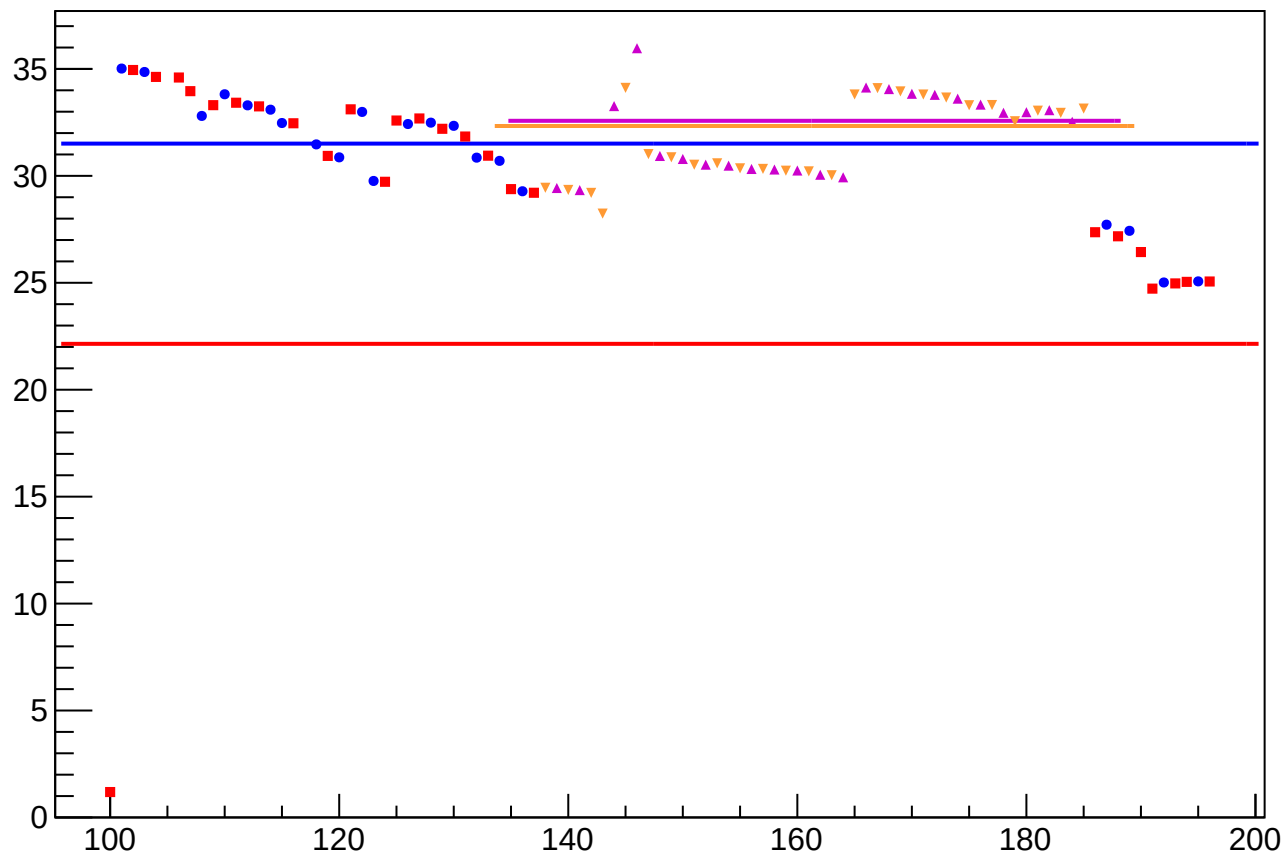


Left: 0.107 $\pm$ 0.000 χ^2/NDF : 1507414.2/47
 Right: 0.152 $\pm$ 0.000 χ^2/NDF : 7212265.4/46

Right In: 0.140 $\pm$ 0.000 χ^2/NDF : 3072002.8/20
 Left Out: 0.106 $\pm$ 0.000 χ^2/NDF : 732883.8/24
 Right Out: 0.164 $\pm$ 0.000 χ^2/NDF : 3963738.0/25
 Left In: 0.107 $\pm$ 0.000 χ^2/NDF : 771132.0/22

In: 0.114 $\pm$ 0.000 χ^2/NDF : 4407477.0/43
 Out: 0.116 $\pm$ 0.000 χ^2/NDF : 6399342.5/50
 All: 0.115 $\pm$ 0.000 χ^2/NDF : 10815016.3/94

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.508+/-0.000

χ^2/NDF : 3443988910.3/20

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.881+/-0.000

χ^2/NDF : 274402451064.3/46

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

In: 32.400+/-0.000

χ^2/NDF : 15969673522.0/43

Right Out: 22.145+/-0.000

χ^2/NDF : 230663519453.7/25

Out: 30.095+/-0.000

χ^2/NDF : 336807611163.7/50

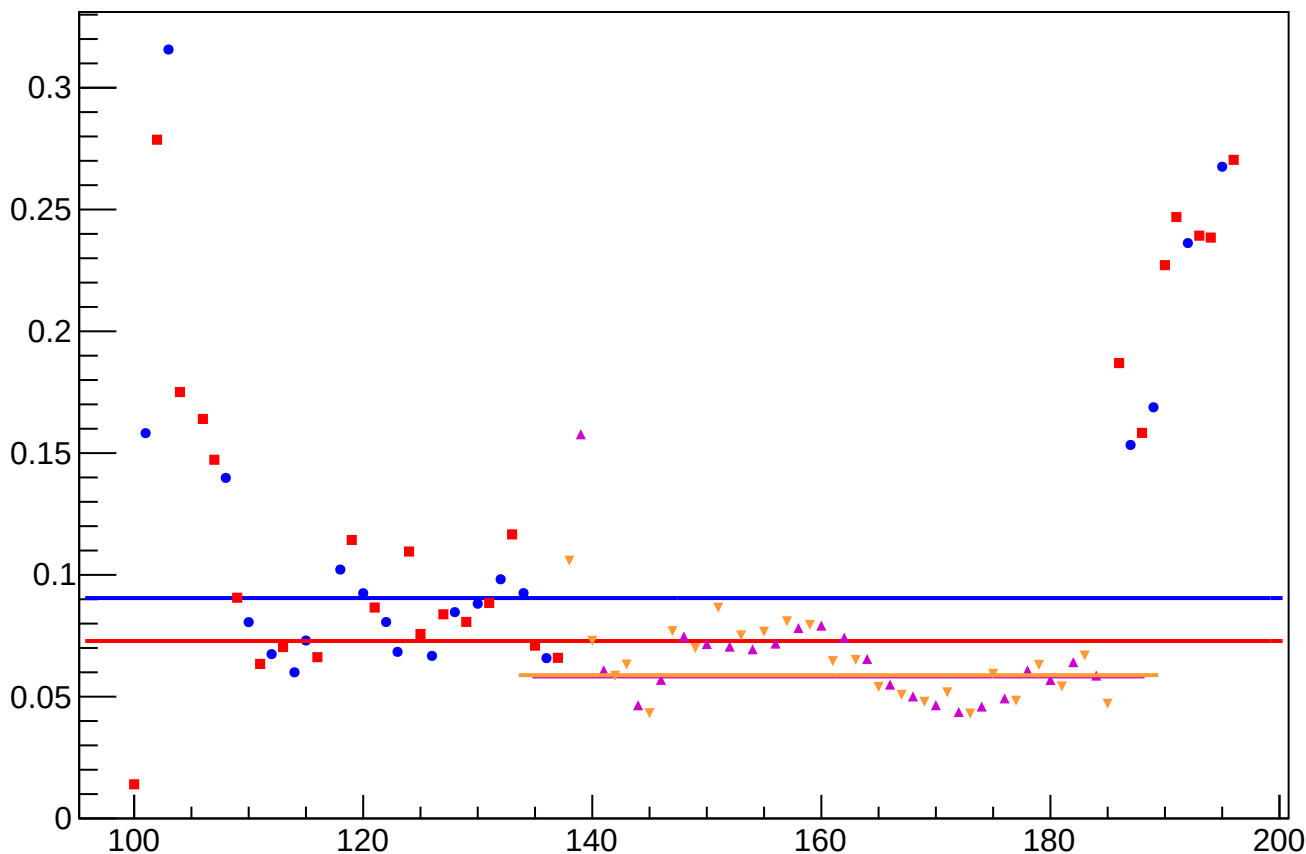
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

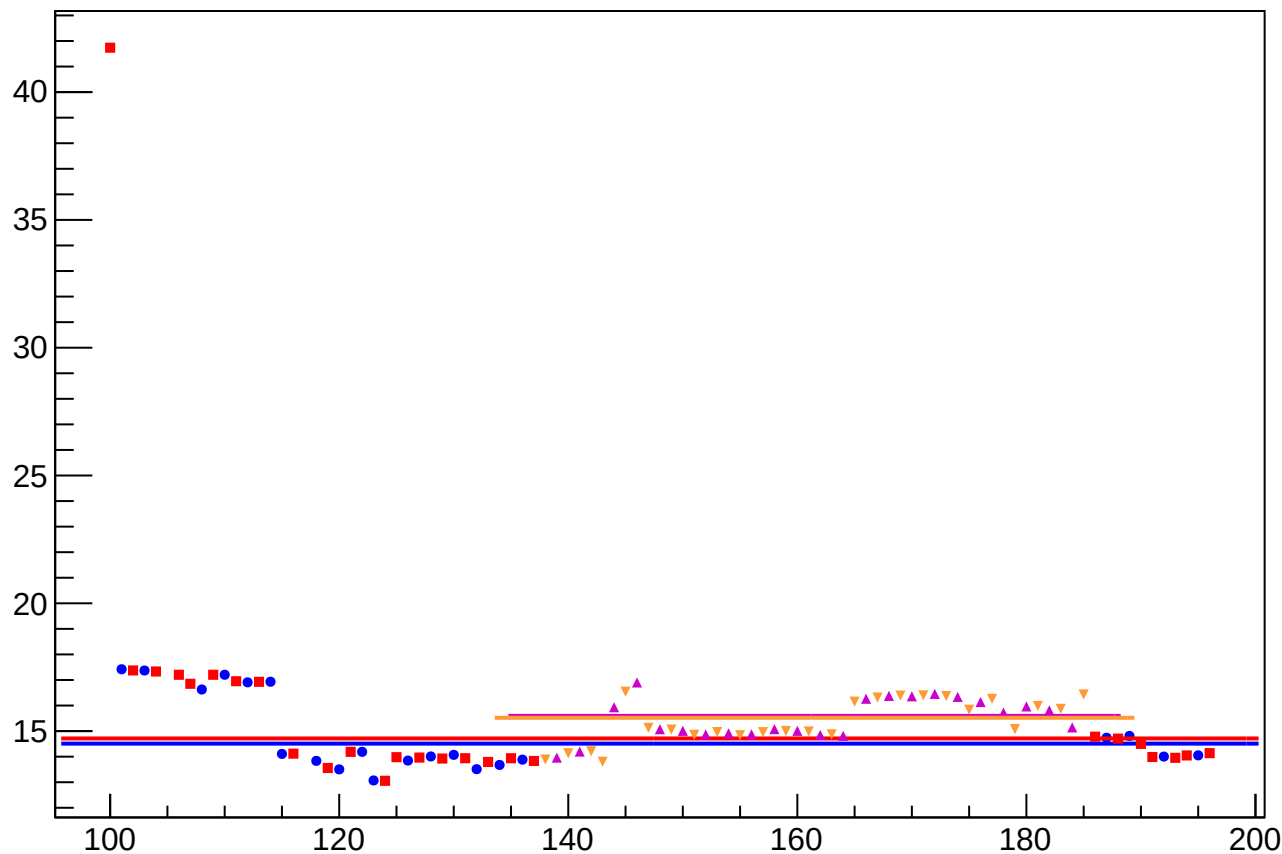
All: 31.182+/-0.000

χ^2/NDF : 365927734765.

yield_sam3_rms vs Slug, Sign Corrected

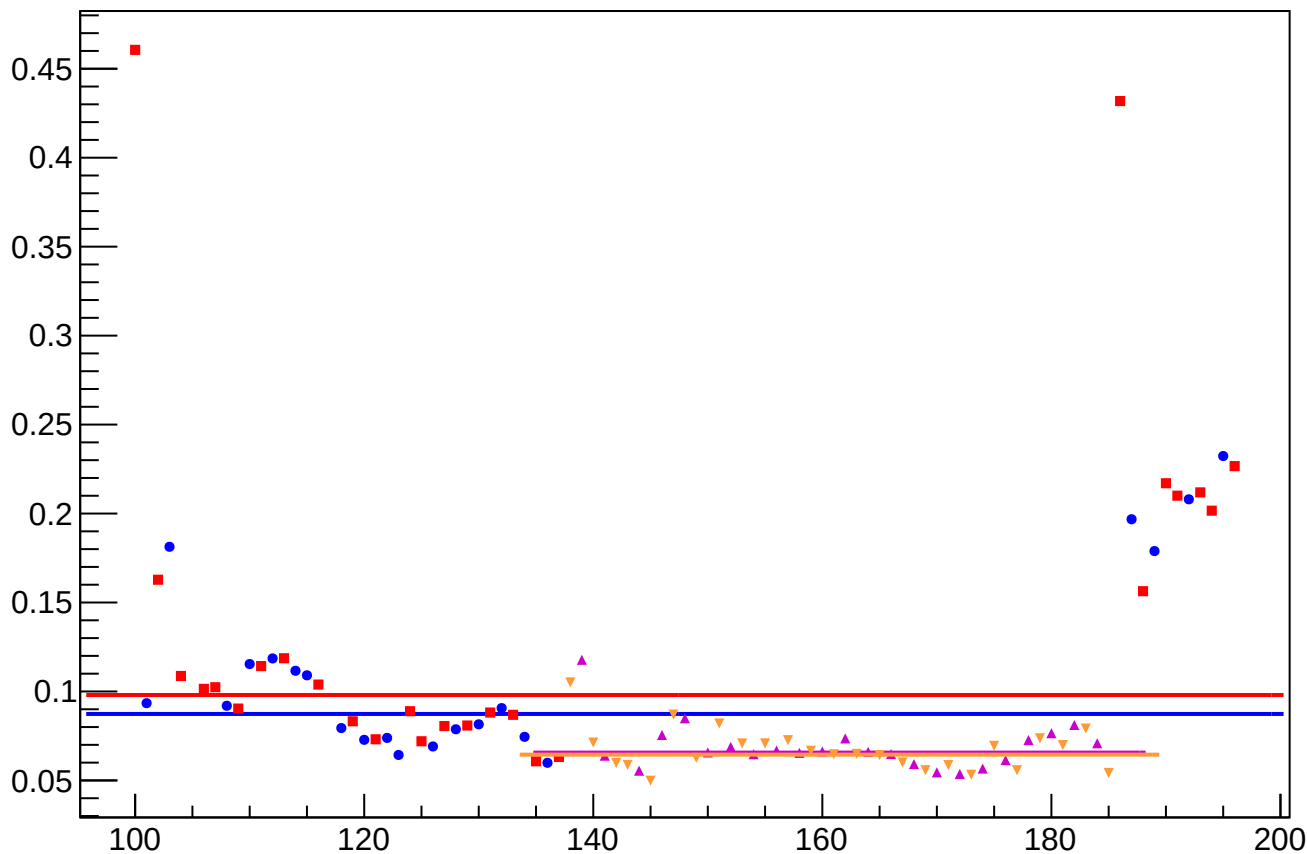


yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.510+/-0.000	χ^2/NDF : 1495442423.6/20	Left: 15.557+/-0.000	χ^2/NDF : 4510008259.4/47
Left Out: 15.521+/-0.000	χ^2/NDF : 2591377740.5/24	Right: 14.611+/-0.000	χ^2/NDF : 3445228588.3/46
Right Out: 14.712+/-0.000	χ^2/NDF : 1931213244.8/25	In: 15.368+/-0.000	χ^2/NDF : 4252453409.7/43
Left In: 15.595+/-0.000	χ^2/NDF : 1908733580.5/22	Out: 15.364+/-0.000	χ^2/NDF : 4997741914.9/50
		All: 15.366+/-0.000	χ^2/NDF : 9250225408.2/9

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 2393957.7/20

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF:761552.3/24

Right Out: 0.098 $\pm$ 0.000 χ^2 /NDF: 3331519.6/25

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

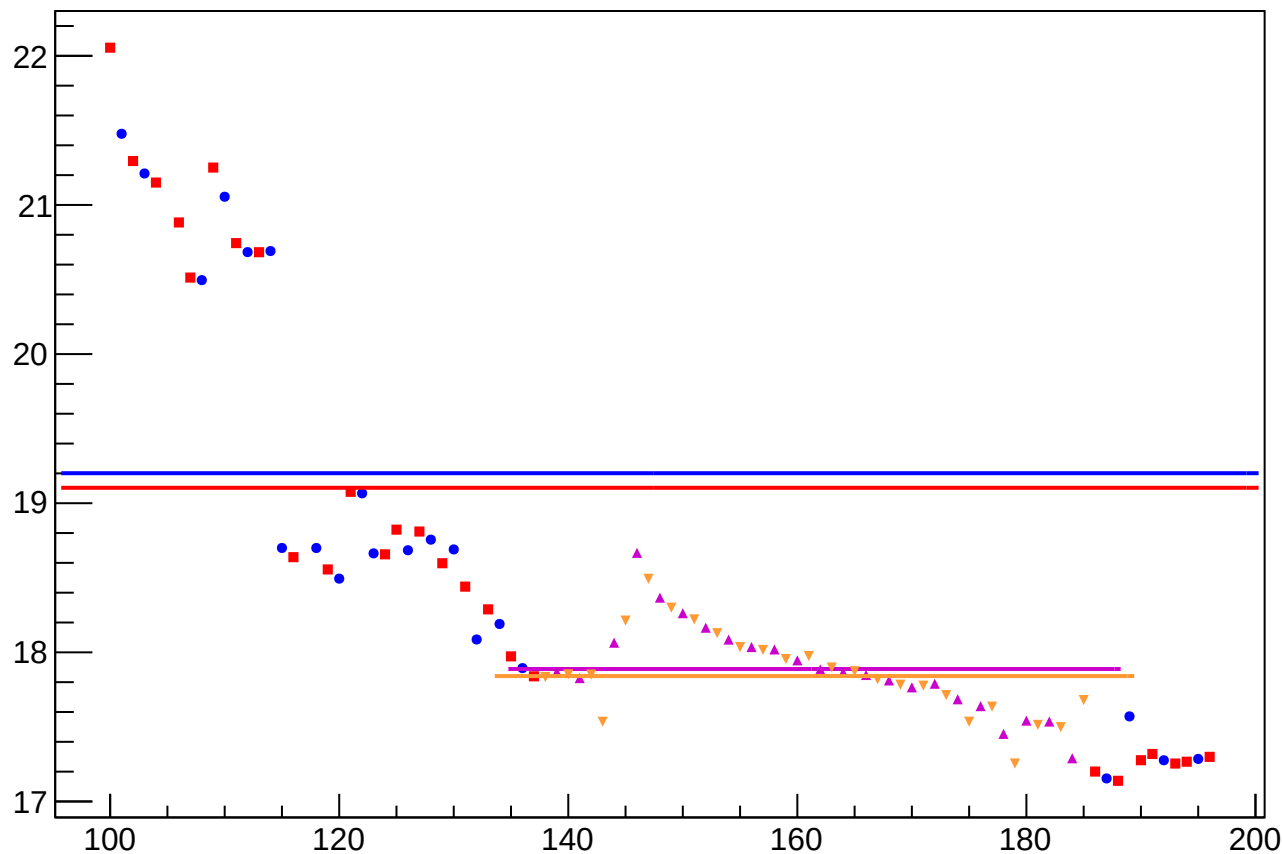
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 5827950.9/46

In: 0.070 $\pm$ 0.000 χ^2 /NDF:3788117.9/43

Out: 0.071 $\pm$ 0.000 χ^2 /NDF:5724768.6/50

All: 0.071 $\pm$ 0.000 χ^2 /NDF: 9515705.2/94

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.201+/-0.000 χ^2/NDF : 19230472796.8/20

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 19.104+/-0.000 χ^2/NDF : 23977220585.3/25

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

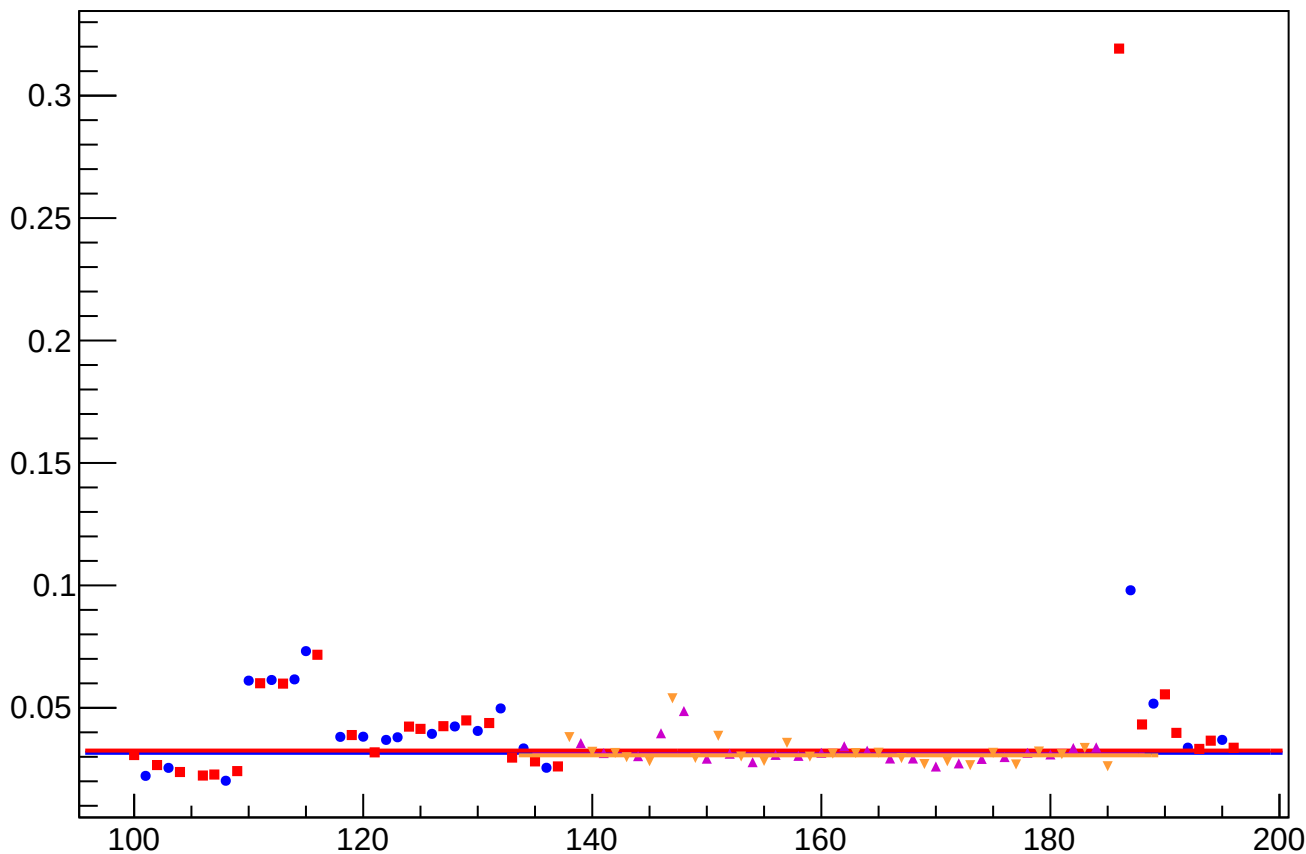
Right: 19.149+/-0.000 χ^2/NDF : 43246868888.0/46

In: 18.289+/-0.000 χ^2/NDF : 29574490681.7/43

Out: 18.250+/-0.000 χ^2/NDF : 34876924936.5/50

All: 18.268+/-0.000 χ^2/NDF : 64471969576.8

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 1634393.3/20

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 2056309.5/25

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

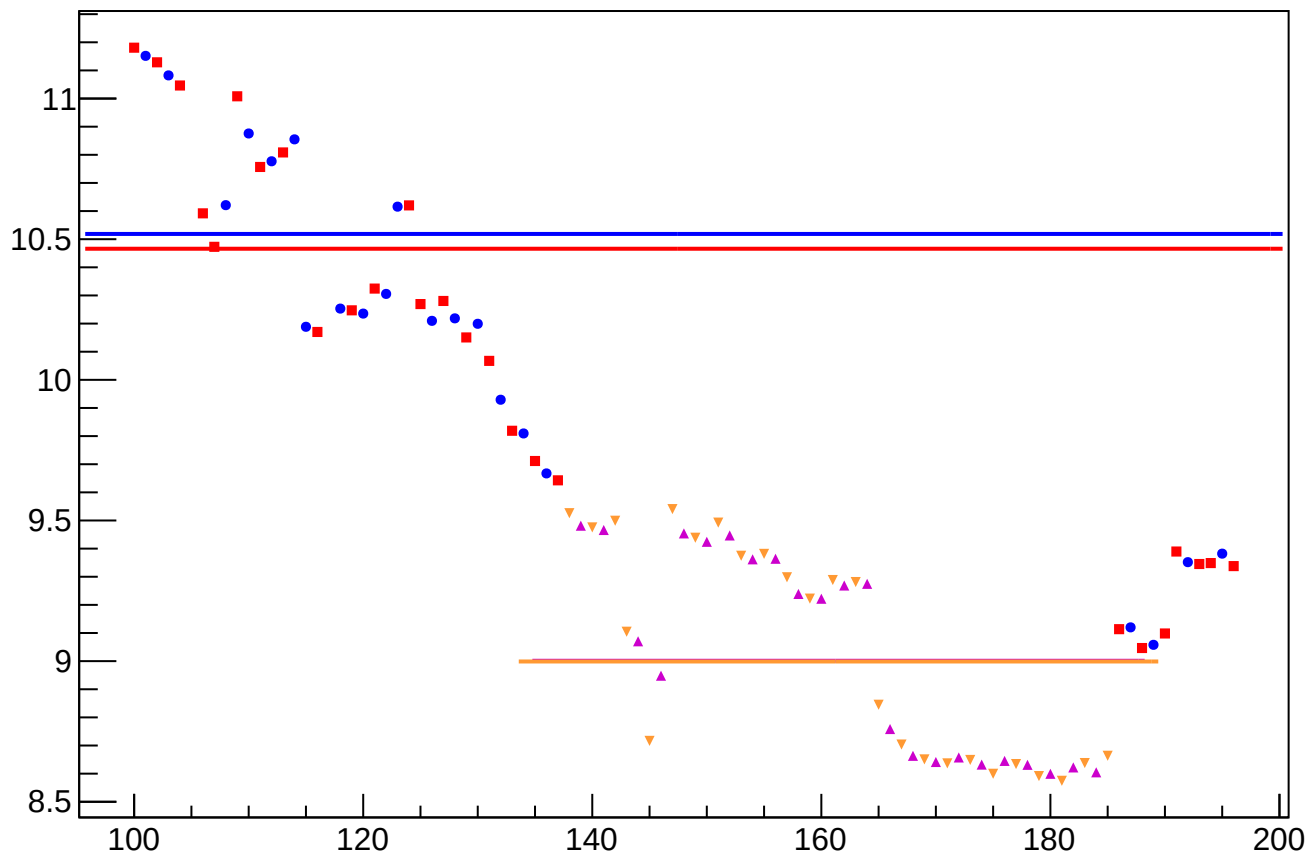
Right: 0.032 $\pm$ 0.000 χ^2 /NDF: 3697619.6/46

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2093617.4/43

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:2692376.4/50

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4786318.7/94

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.519+/-0.000 χ^2/NDF : 9622771096.7/20

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.466+/-0.000 χ^2/NDF : 9573377957.8/25

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

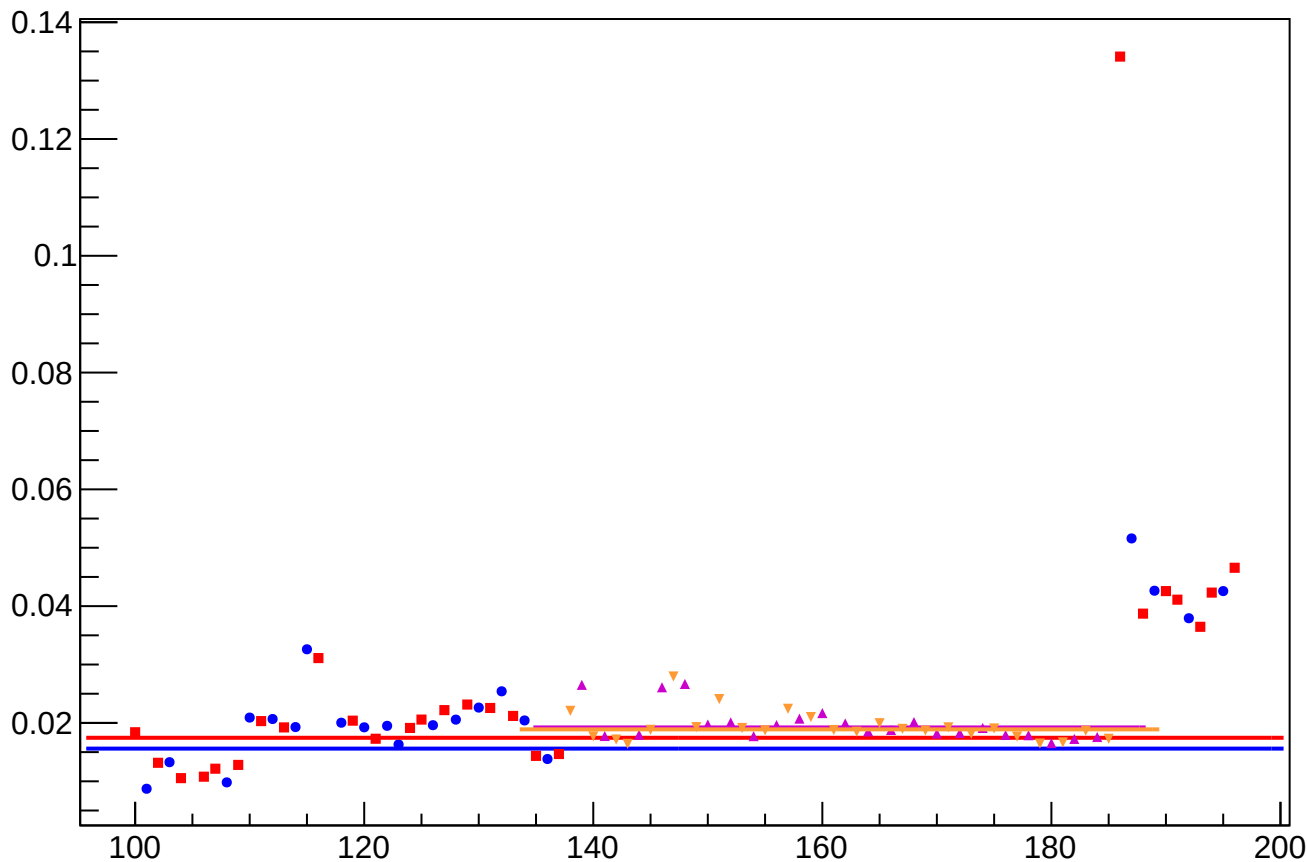
Right: 10.492+/-0.000 χ^2/NDF : 19234094911.8/46

In: 9.593+/-0.000 χ^2/NDF : 53391403112.0/43

Out: 9.541+/-0.000 χ^2/NDF : 53339597217.3/50

All: 9.566+/-0.000 χ^2/NDF : 106830078949.0

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3238613.2/20

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.017+/-0.000 χ^2/NDF : 4267427.4/25

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

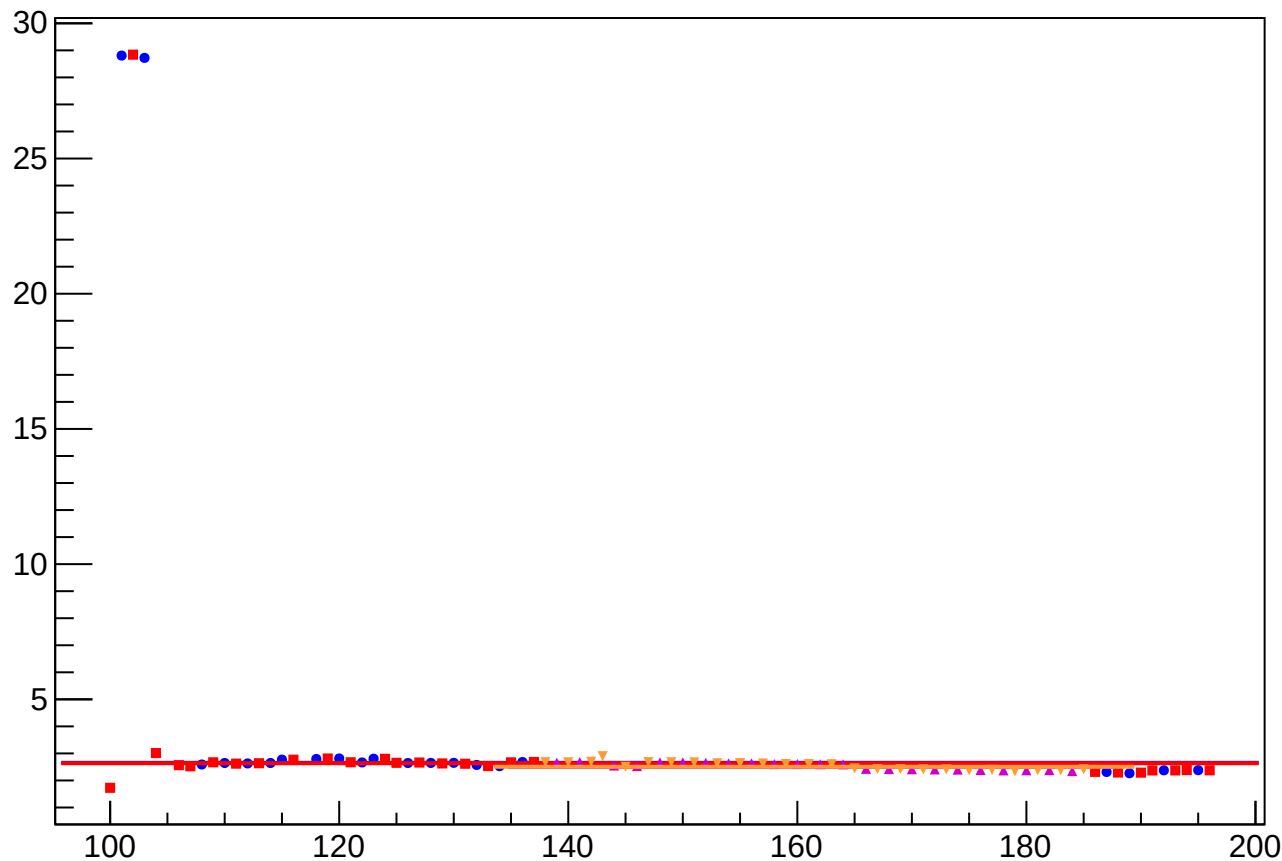
Right: 0.017+/-0.000 χ^2/NDF : 7600511.8/46

In: 0.018+/-0.000 χ^2/NDF : 4159290.0/43

Out: 0.018+/-0.000 χ^2/NDF : 4767809.5/50

All: 0.018+/-0.000 χ^2/NDF : 8949260.6/94

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.652+/-0.000 χ^2/NDF : 168511236433.2/20

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.638+/-0.000 χ^2/NDF : 80851518128.2/25

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

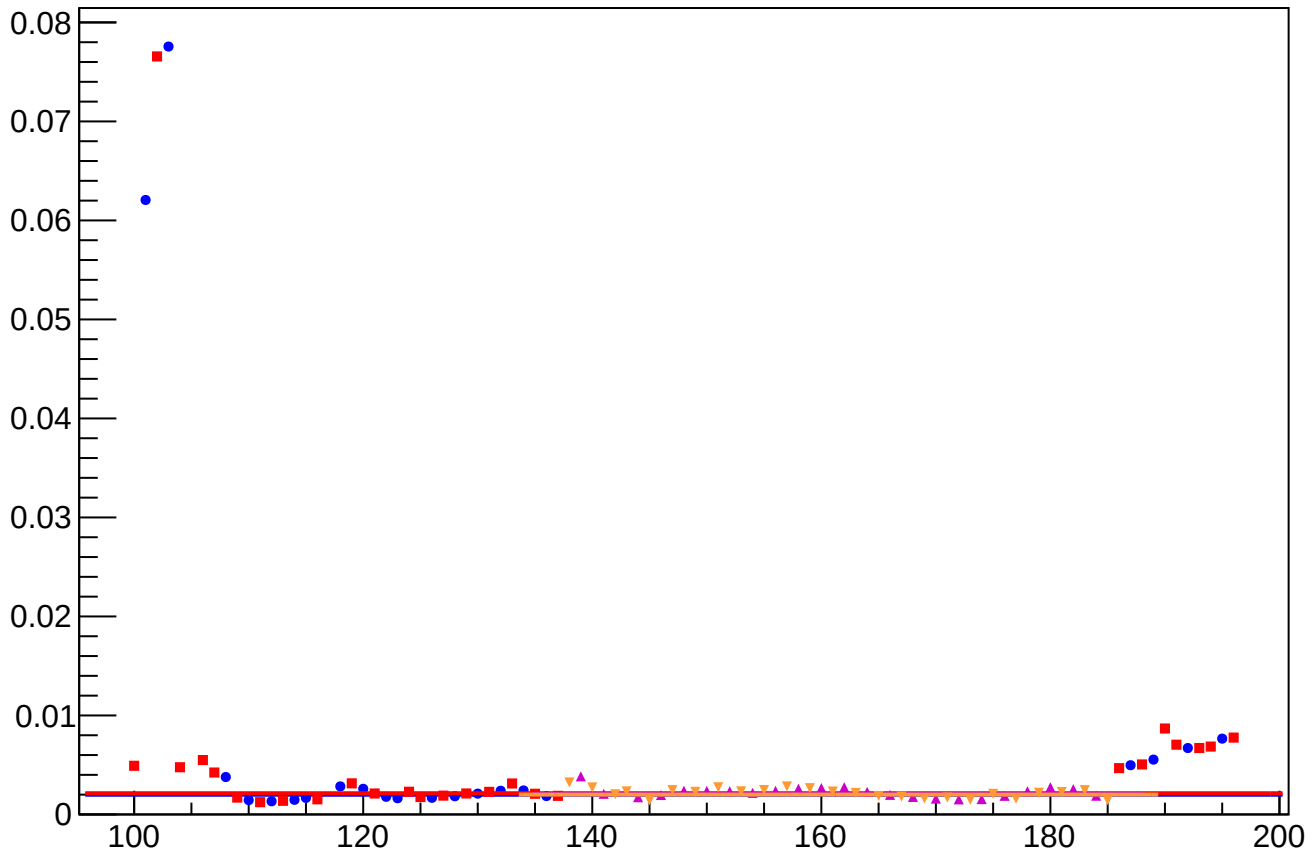
Right: 2.645+/-0.000 χ^2/NDF : 249493206375.2/46

In: 2.549+/-0.000 χ^2/NDF : 232478373542.6/43

Out: 2.545+/-0.000 χ^2/NDF : 163712479000.1/50

All: 2.547+/-0.000 χ^2/NDF : 396223559678.0

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4936570.3/20

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6201275.9/25

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

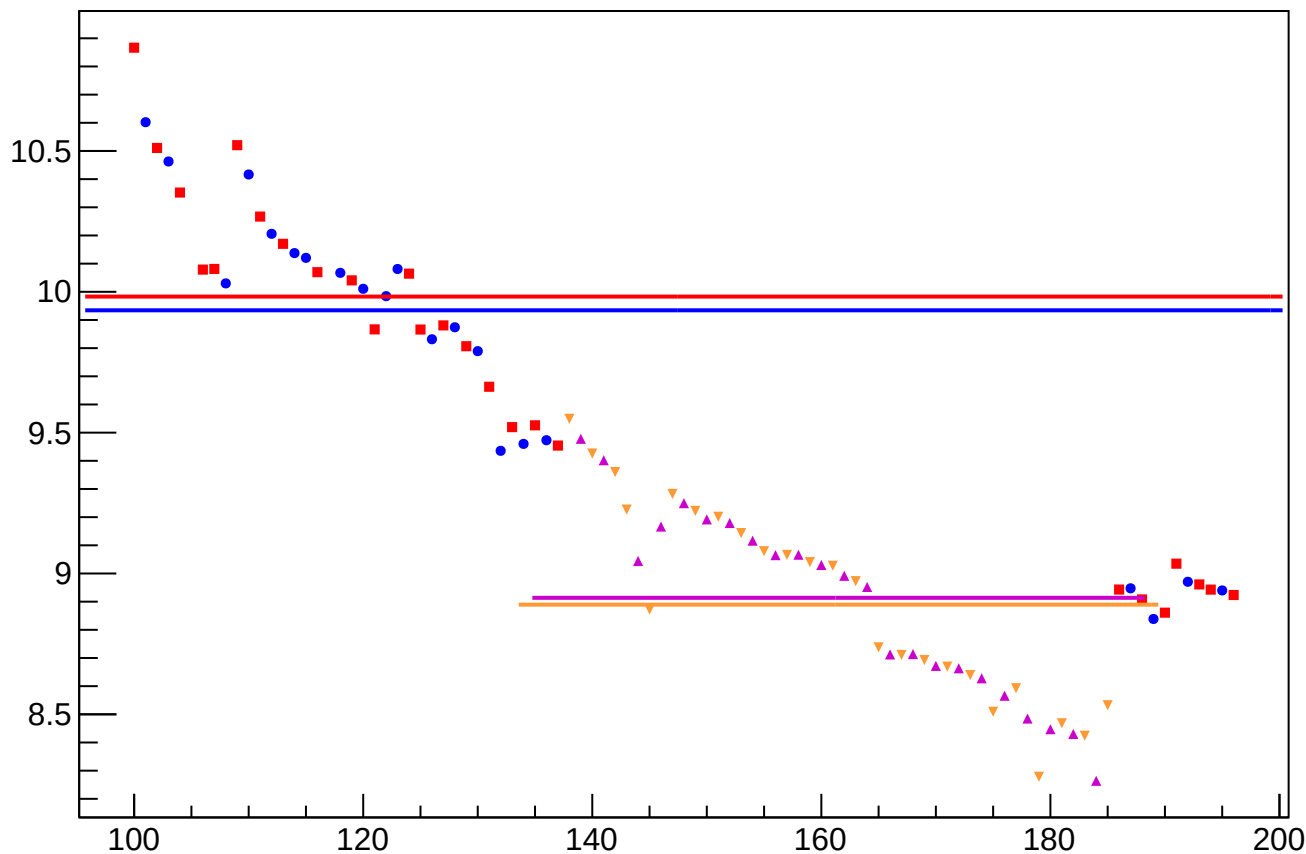
Right: 0.002+/-0.000 χ^2/NDF : 11171602.8/46

In: 0.002+/-0.000 χ^2/NDF :6248686.9/43

Out: 0.002+/-0.000 χ^2/NDF :7710933.4/50

All: 0.002+/-0.000 χ^2/NDF : 13959916.9/94

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.934 $\pm$ 0.000 χ^2 /NDF: 29347467097.6/20

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 9.983 $\pm$ 0.000 χ^2 /NDF: 36226998175.9/25

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF: 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

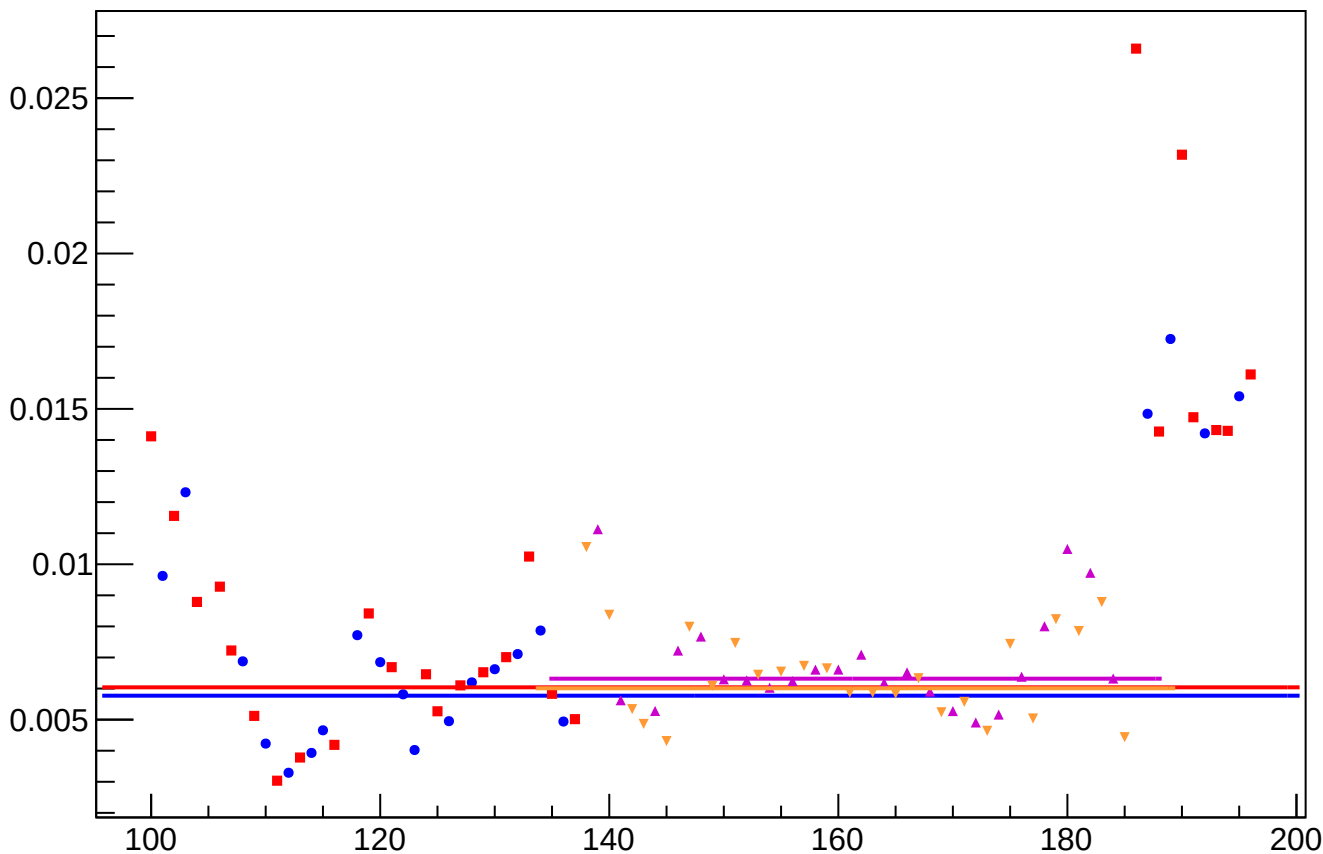
Right: 9.960 $\pm$ 0.000 χ^2 /NDF: 65811475896.3/46

In: 9.275 $\pm$ 0.000 χ^2 /NDF: 186333755462.8/43

Out: 9.263 $\pm$ 0.000 χ^2 /NDF: 235313801100.9/50

All: 9.269 $\pm$ 0.000 χ^2 /NDF: 421693018139.7

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3072242.7/20

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 5098275.3/25

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

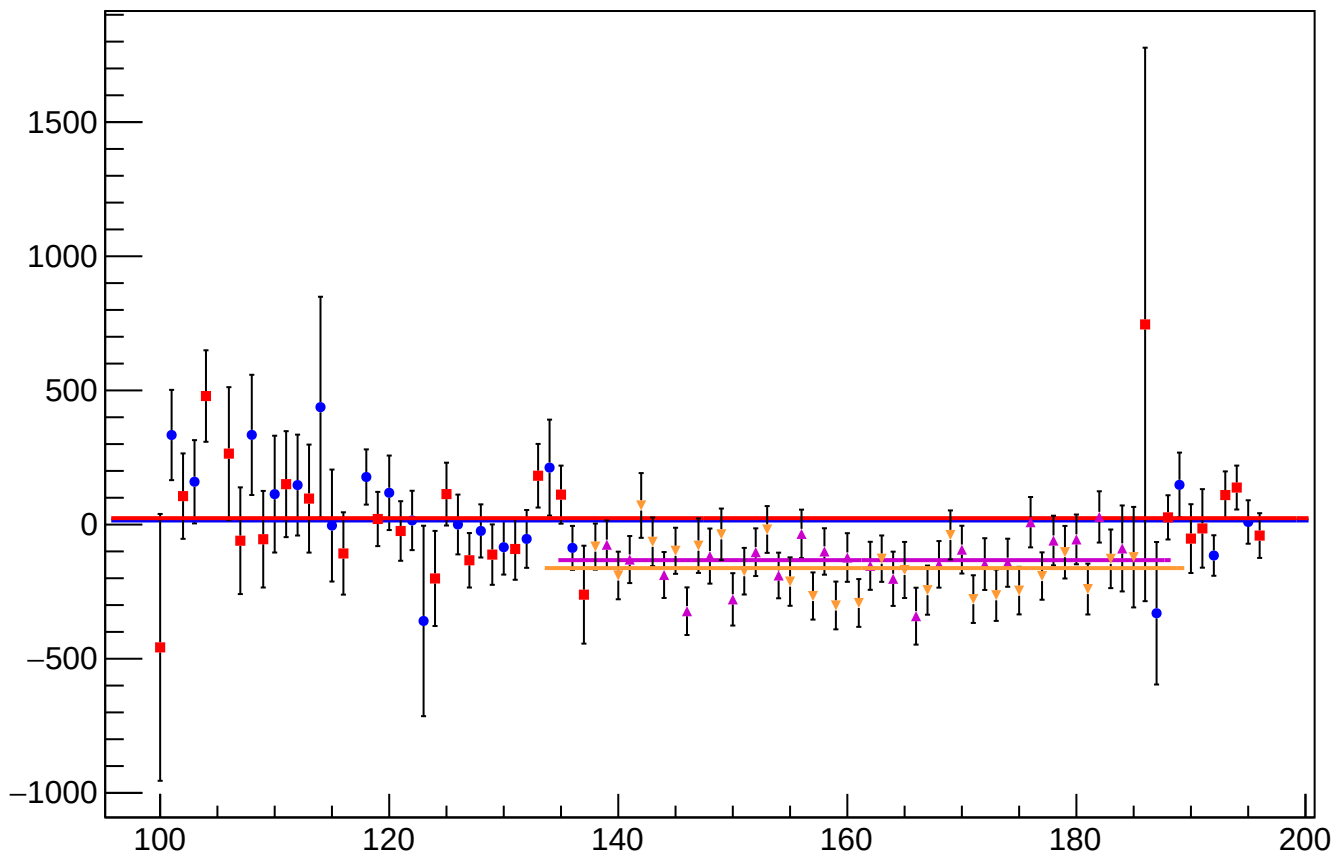
Right: 0.006+/-0.000 χ^2/NDF : 8184977.5/46

In: 0.006+/-0.000 χ^2/NDF :4233240.9/43

Out: 0.006+/-0.000 χ^2/NDF :6411060.4/50

All: 0.006+/-0.000 χ^2/NDF : 10650557.3/94

reg_asym_sam1_mean vs Slug, Sign Corrected

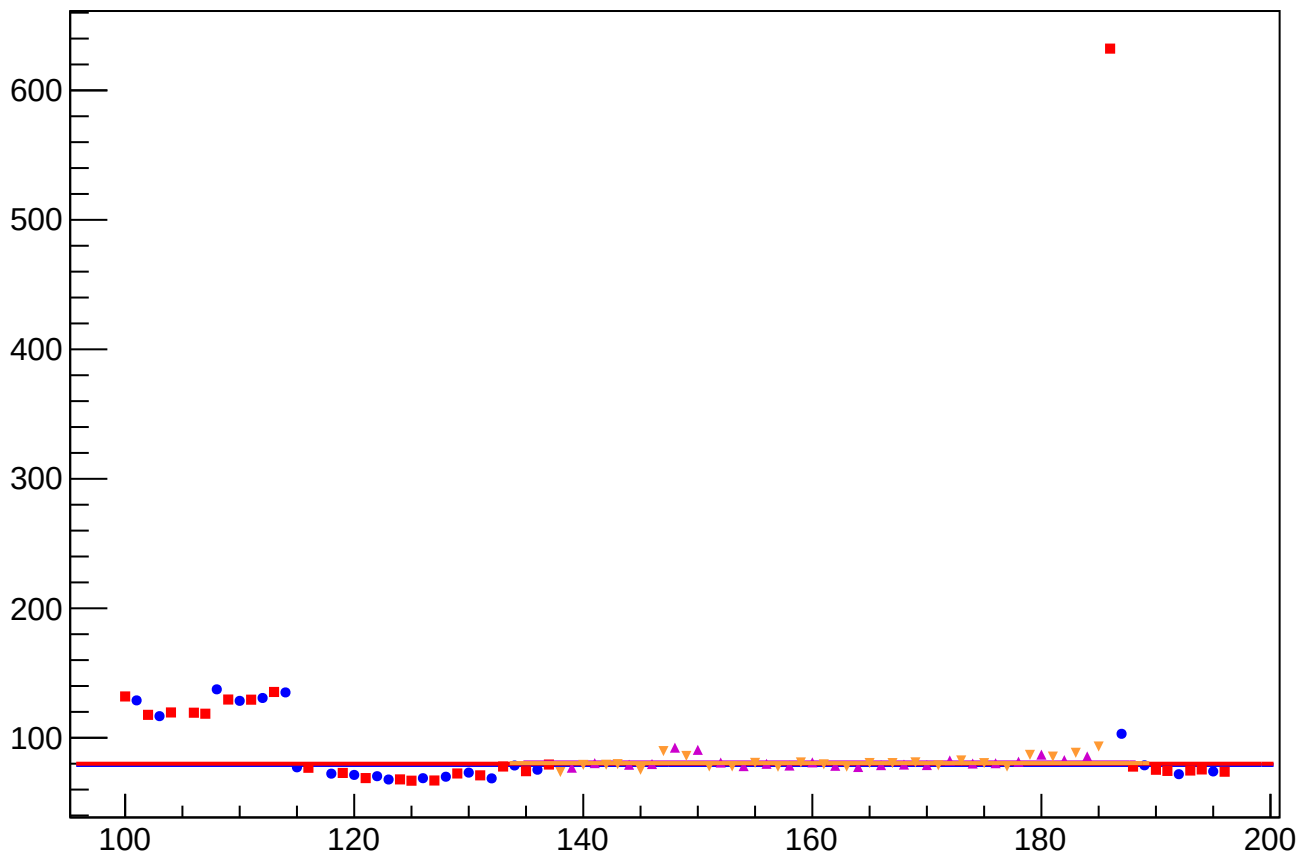


Right In: 15.250 ± 27.042 $\chi^2/\text{NDF}: 22.6/20$
 Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$
 Right Out: 23.870 ± 24.675 $\chi^2/\text{NDF}: 27.4/25$
 Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$
 Right: 19.954 ± 18.227 $\chi^2/\text{NDF}: 50.1/46$
 In: -82.323 ± 15.765 $\chi^2/\text{NDF}: 63.1/43$
 Out: -94.088 ± 14.926 $\chi^2/\text{NDF}: 89.2/50$

All: -88.527 ± 10.839 $\chi^2/\text{NDF}: 152.5/94$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 79.013 $\pm$ 0.019 χ^2 /NDF: 855623.3/20

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 79.979 $\pm$ 0.017 χ^2 /NDF: 1526359.7/25

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

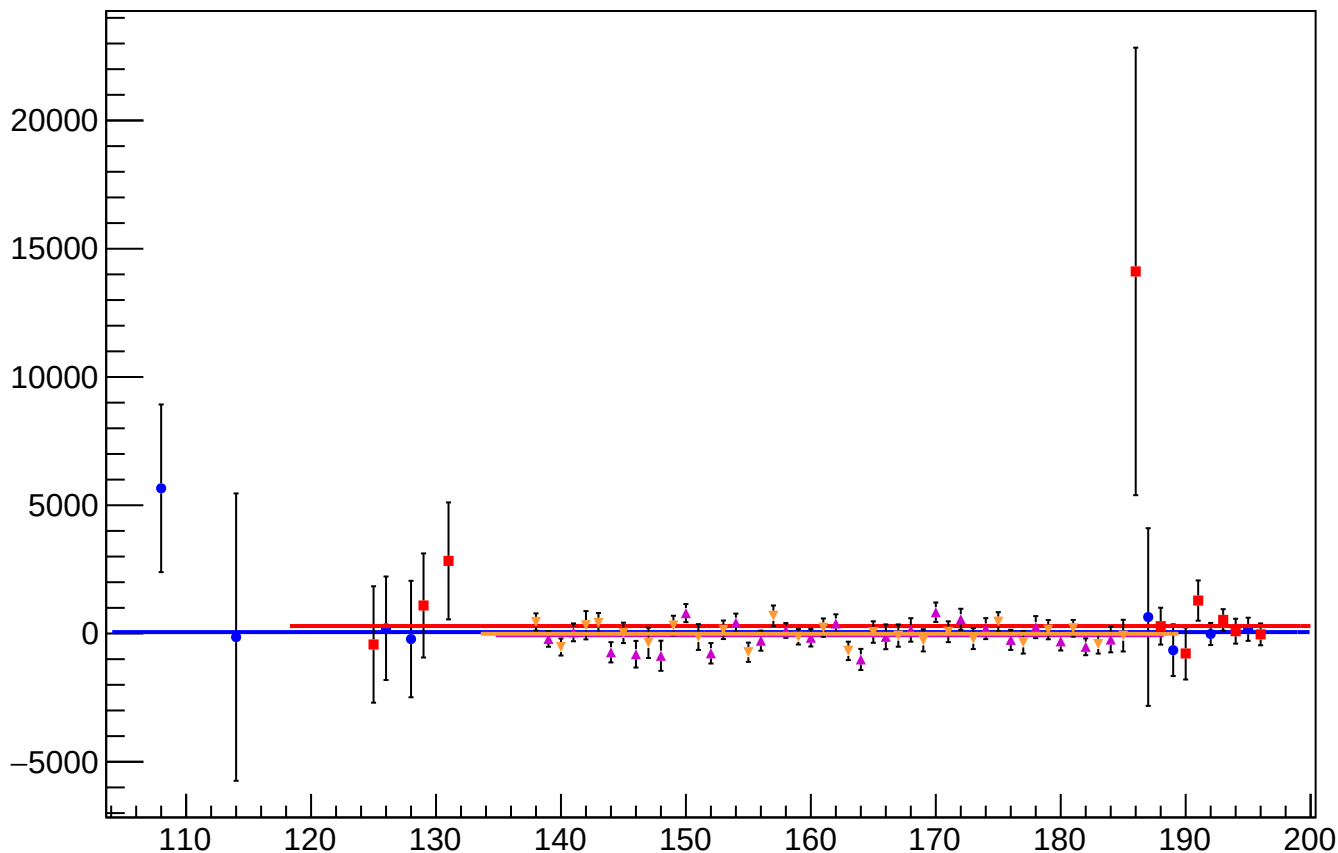
Right: 79.540 $\pm$ 0.013 χ^2 /NDF: 2383374.6/46

In: 80.334 $\pm$ 0.011 χ^2 /NDF: 935101.2/43

Out: 80.283 $\pm$ 0.011 χ^2 /NDF: 1616782.0/50

All: 80.307 $\pm$ 0.008 χ^2 /NDF: 2551894.1/94

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 55.316+/-289.203 χ^2/NDF : 3.6/7

Left Out: -10.486+/-78.391 χ^2/NDF : 22.5/24

Right Out: 292.027+/-220.061 χ^2/NDF : 7.8/9

Left In: -64.591+/-80.047 χ^2/NDF : 37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

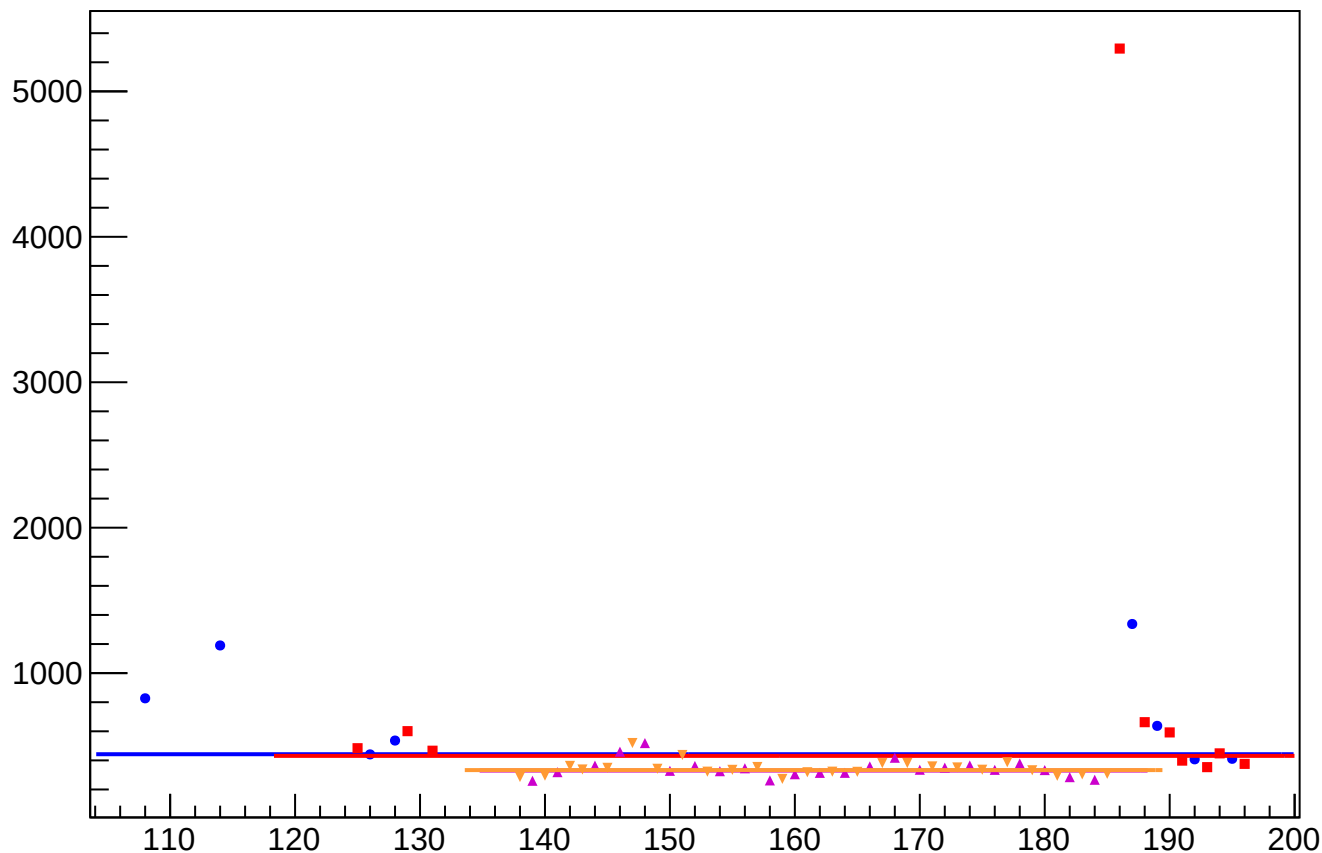
Right: 205.228+/-175.127 χ^2/NDF : 11.8/17

In: -56.059+/-77.146 χ^2/NDF : 41.1/30

Out: 23.579+/-73.846 χ^2/NDF : 32.0/34

All: -14.500+/-53.345 χ^2/NDF : 73.7/65

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 442.399+/-0.204

χ^2/NDF : 298165.0/7

Left Out: 333.233+/-0.055

χ^2/NDF : 592122.2/24

Right Out: 431.074+/-0.156

χ^2/NDF : 1003571.9/9

Left In: 329.985+/-0.057

χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040

χ^2/NDF : 1389771.8/47

Right: 435.227+/-0.124

χ^2/NDF : 1303679.0/17

In: 337.984+/-0.055

χ^2/NDF : 1374808.0/30

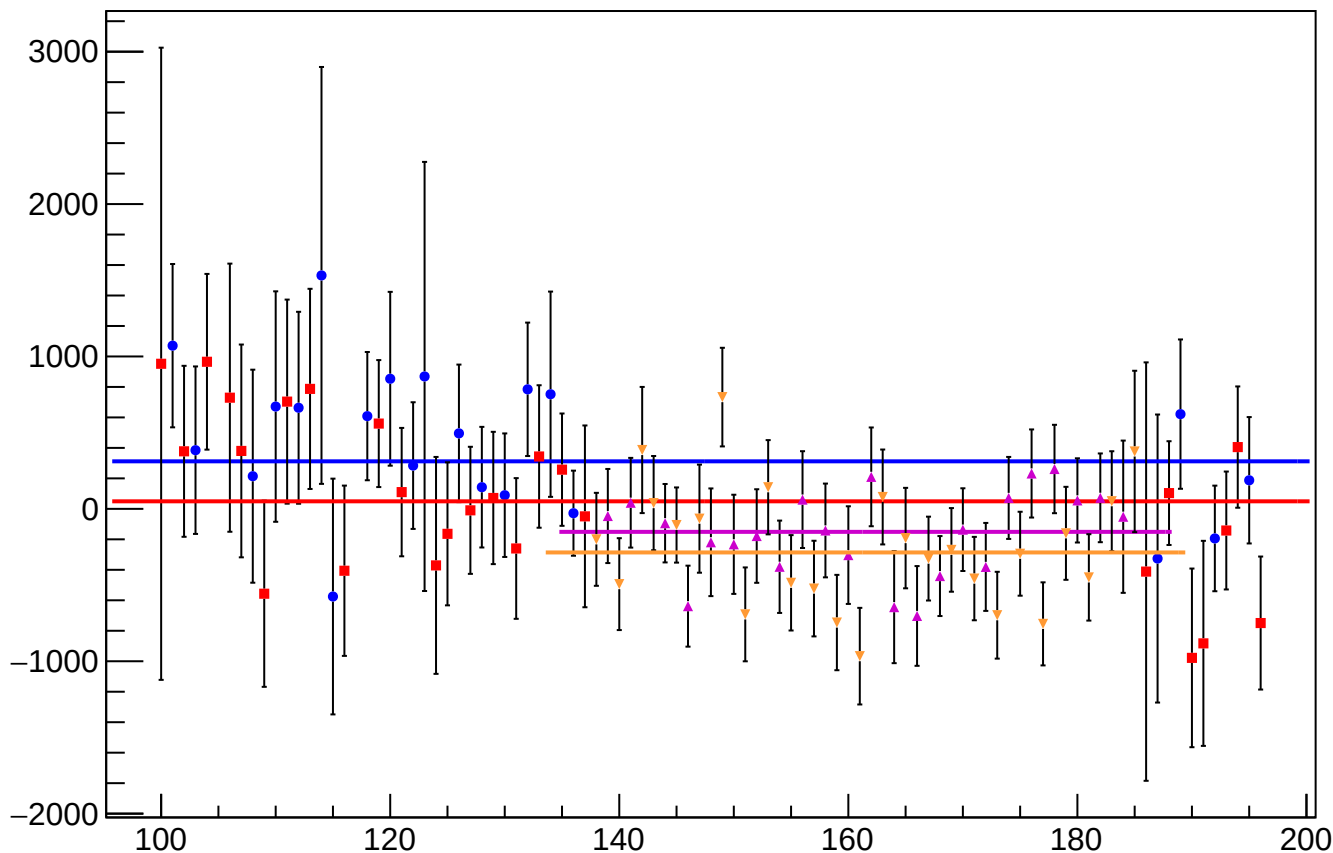
Out: 344.251+/-0.052

χ^2/NDF : 1946527.8/34

All: 341.254+/-0.038

χ^2/NDF : 3328221.5/65

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 311.907 $\pm$ 106.962 χ^2/NDF : 13.1/20

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 49.455 $\pm$ 99.438 χ^2/NDF : 20.6/25

Left In: -150.920 $\pm$ 62.818 χ^2/NDF :18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

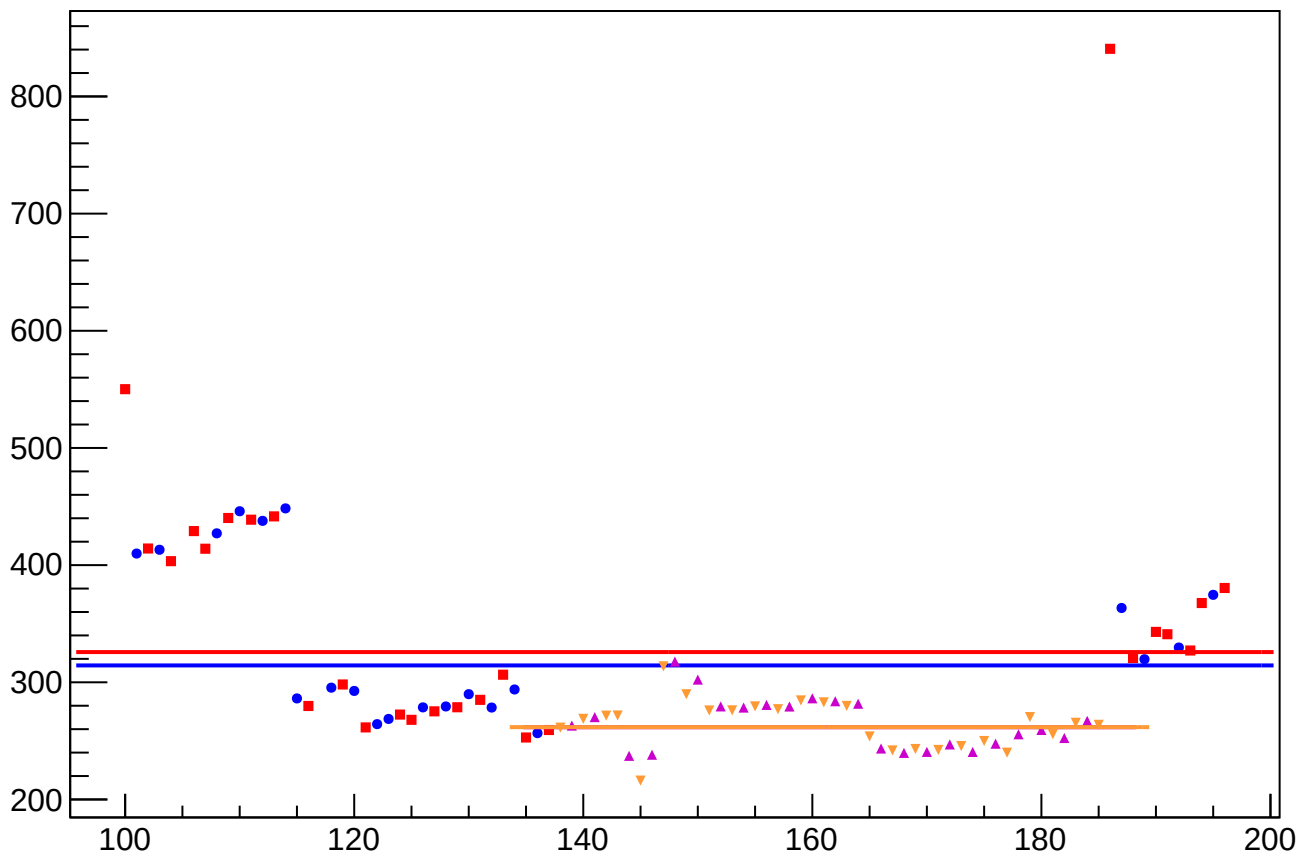
Right: 171.127 $\pm$ 72.828 χ^2/NDF : 36.8/46

In: -32.225 $\pm$ 54.167 χ^2/NDF :45.7/43

Out: -194.094 $\pm$ 52.055 χ^2/NDF :65.4/50

All: -116.378 $\pm$ 37.533 χ^2/NDF : 115.7/94

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 314.400 $\pm$ 0.076 χ^2 /NDF: 565857.4/20

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF:233222.6/24

Right Out: 325.800 $\pm$ 0.070 χ^2 /NDF: 981840.2/25

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

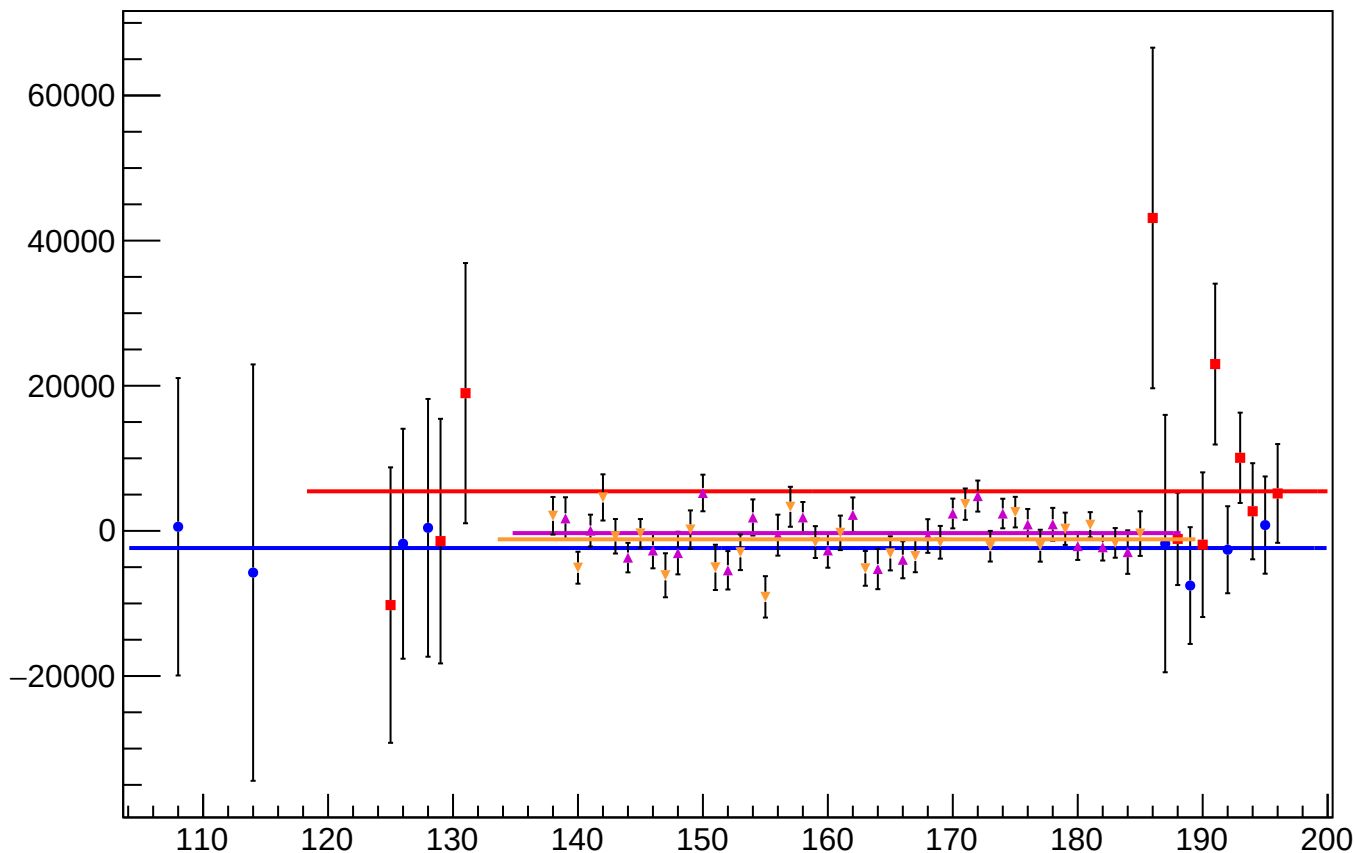
Right: 320.515 $\pm$ 0.051 χ^2 /NDF: 1559884.9/46

In: 275.168 $\pm$ 0.038 χ^2 /NDF:1155957.4/43

Out: 279.282 $\pm$ 0.037 χ^2 /NDF:1817986.7/50

All: 277.307 $\pm$ 0.027 χ^2 /NDF: 2979940.9/94

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -2363.581+/-3547.060 χ^2/NDF : 0.7/7

Left Out: -1161.443+/-469.036 χ^2/NDF :38.8/24

Right Out: 5452.094+/-2835.785 χ^2/NDF : 8.8/9

Left In: -304.366+/-483.778 χ^2/NDF :35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

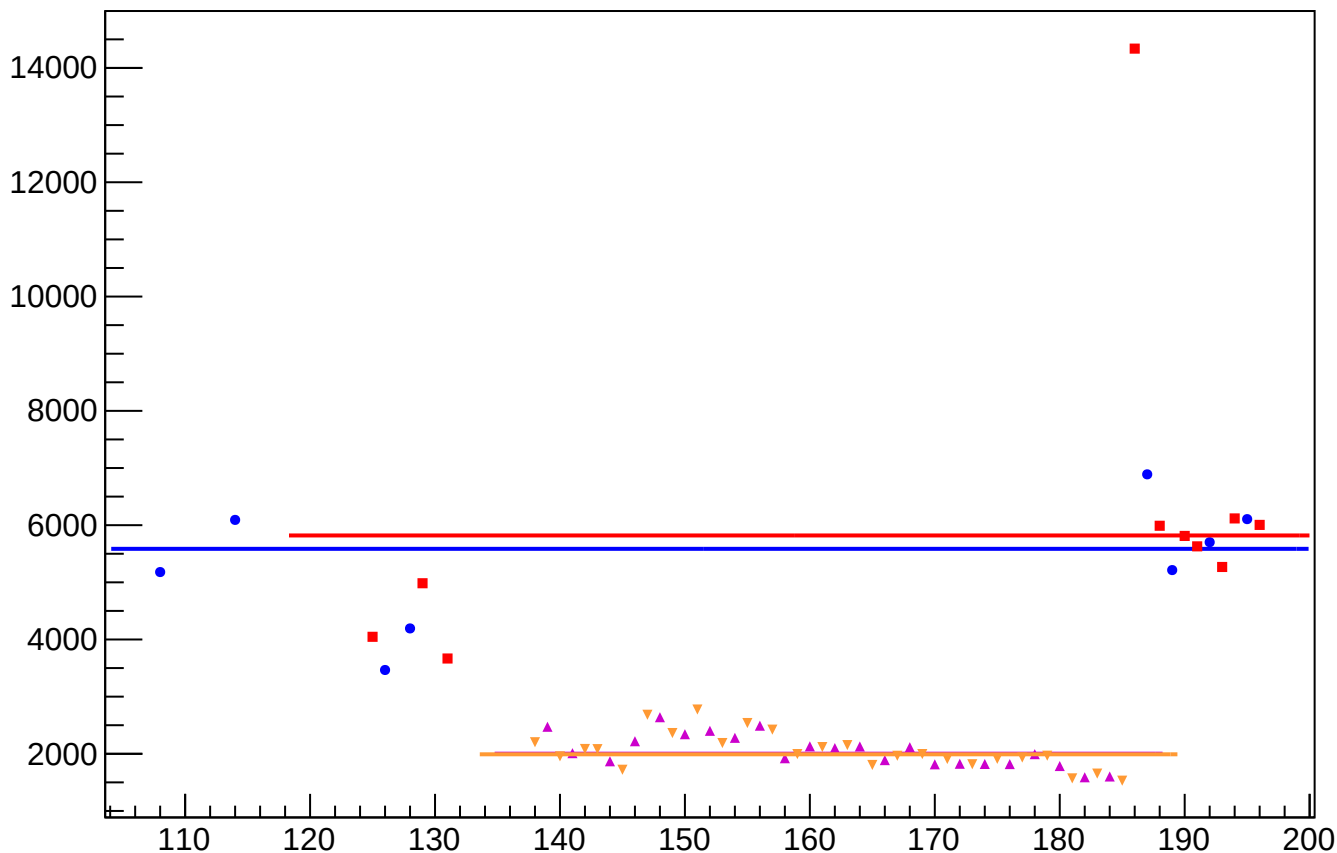
Right: 2404.517+/-2214.943 χ^2/NDF : 12.5/17

In: -341.972+/-479.341 χ^2/NDF :36.4/30

Out: -985.335+/-462.749 χ^2/NDF :52.9/34

All: -674.980+/-332.924 χ^2/NDF : 90.2/65

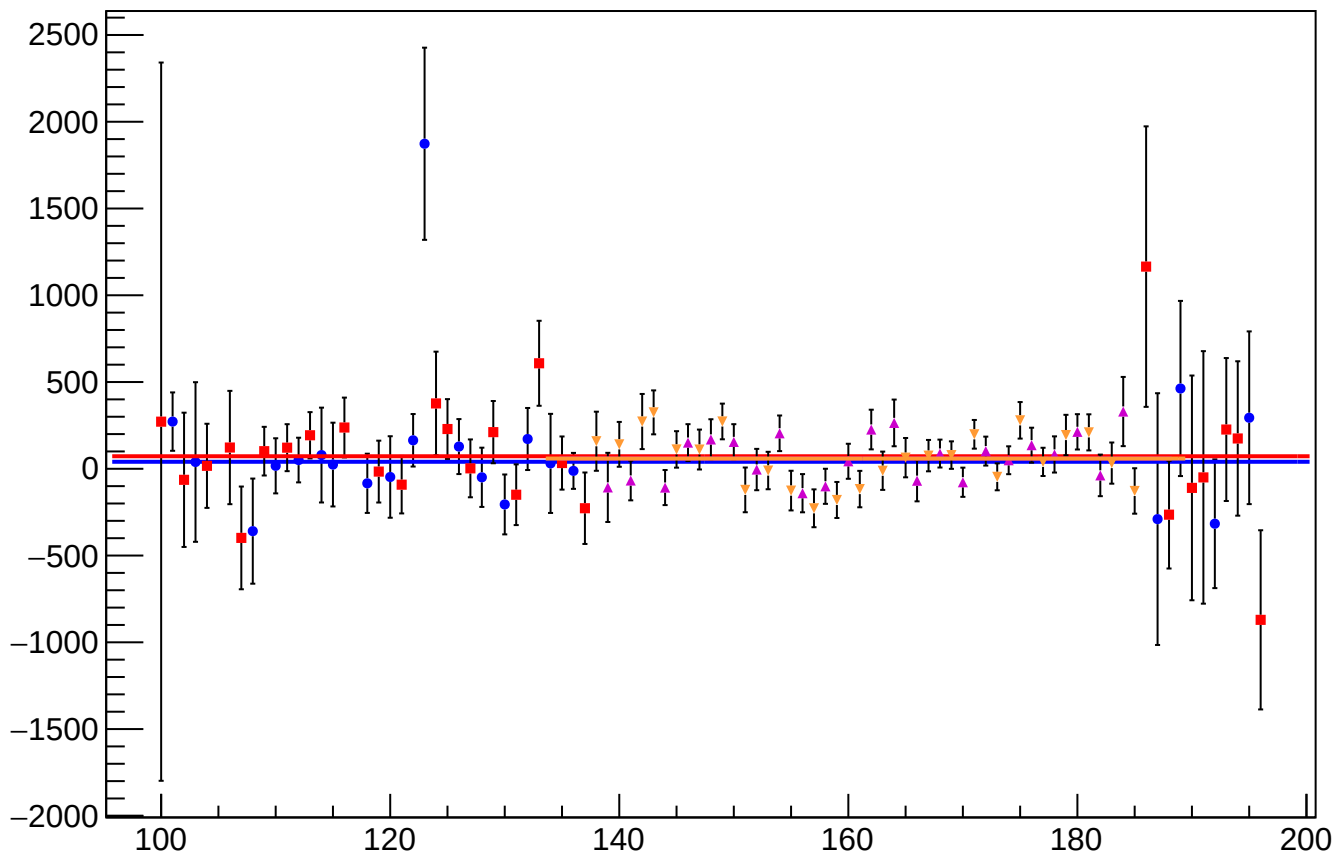
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5586.059 $\pm$ 2.508 χ^2/NDF : 77353.7/7
 Left Out: 1991.105 $\pm$ 0.332 χ^2/NDF : 726310.6/24
 Right Out: 5820.148 $\pm$ 2.005 χ^2/NDF : 337934.8/9
 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: 5728.869 $\pm$ 1.566 χ^2/NDF : 420602.6/17
 In: 2067.603 $\pm$ 0.339 χ^2/NDF : 2667780.3/30
 Out: 2093.066 $\pm$ 0.327 χ^2/NDF : 4613544.6/34
 All: 2080.783 $\pm$ 0.235 χ^2/NDF : 7284246.0/65

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 40.416 $\pm$ 42.938 χ^2 /NDF: 21.5/20

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 72.223 $\pm$ 42.018 χ^2 /NDF: 23.7/25

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

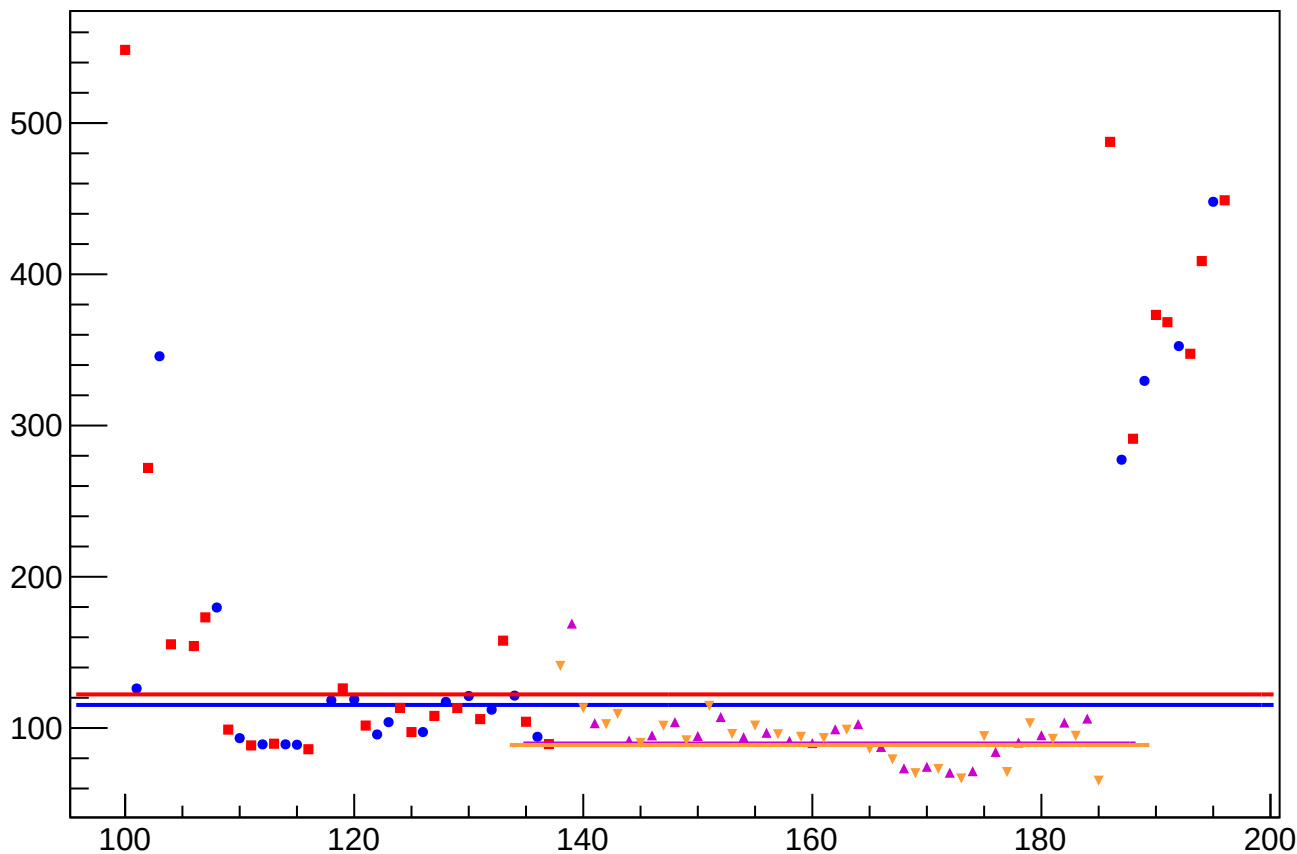
Right: 56.664 $\pm$ 30.031 χ^2 /NDF: 45.5/46

In: 55.344 $\pm$ 19.524 χ^2 /NDF:51.0/43

Out: 61.657 $\pm$ 18.883 χ^2 /NDF:70.7/50

All: 58.606 $\pm$ 13.573 χ^2 /NDF: 121.8/94

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 115.257 $\pm$ 0.030 χ^2/NDF : 3083039.1/20

Left Out: 88.748 $\pm$ 0.015 χ^2/NDF : 1079338.8/24

Right Out: 122.224 $\pm$ 0.030 χ^2/NDF : 4880200.2/25

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

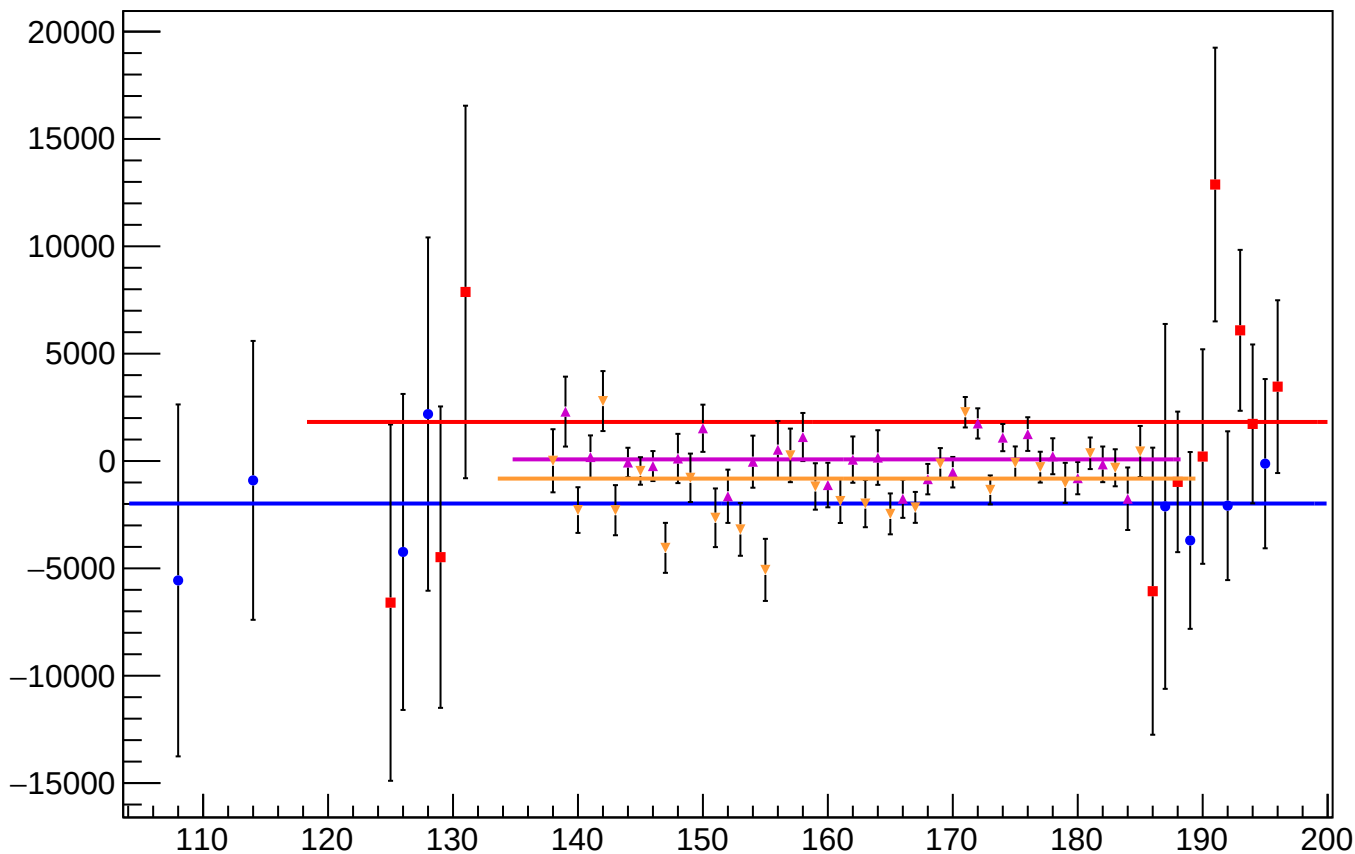
Right: 118.816 $\pm$ 0.021 χ^2/NDF : 7990134.0/46

In: 95.036 $\pm$ 0.014 χ^2/NDF : 4528019.1/43

Out: 95.509 $\pm$ 0.013 χ^2/NDF : 6972623.2/50

All: 95.280 $\pm$ 0.010 χ^2/NDF : 11501248.1/94

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -1980.188 ± 1849.681 $\chi^2/\text{NDF}: 1.0/7$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 1818.968 ± 1517.086 $\chi^2/\text{NDF}: 9.0/9$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

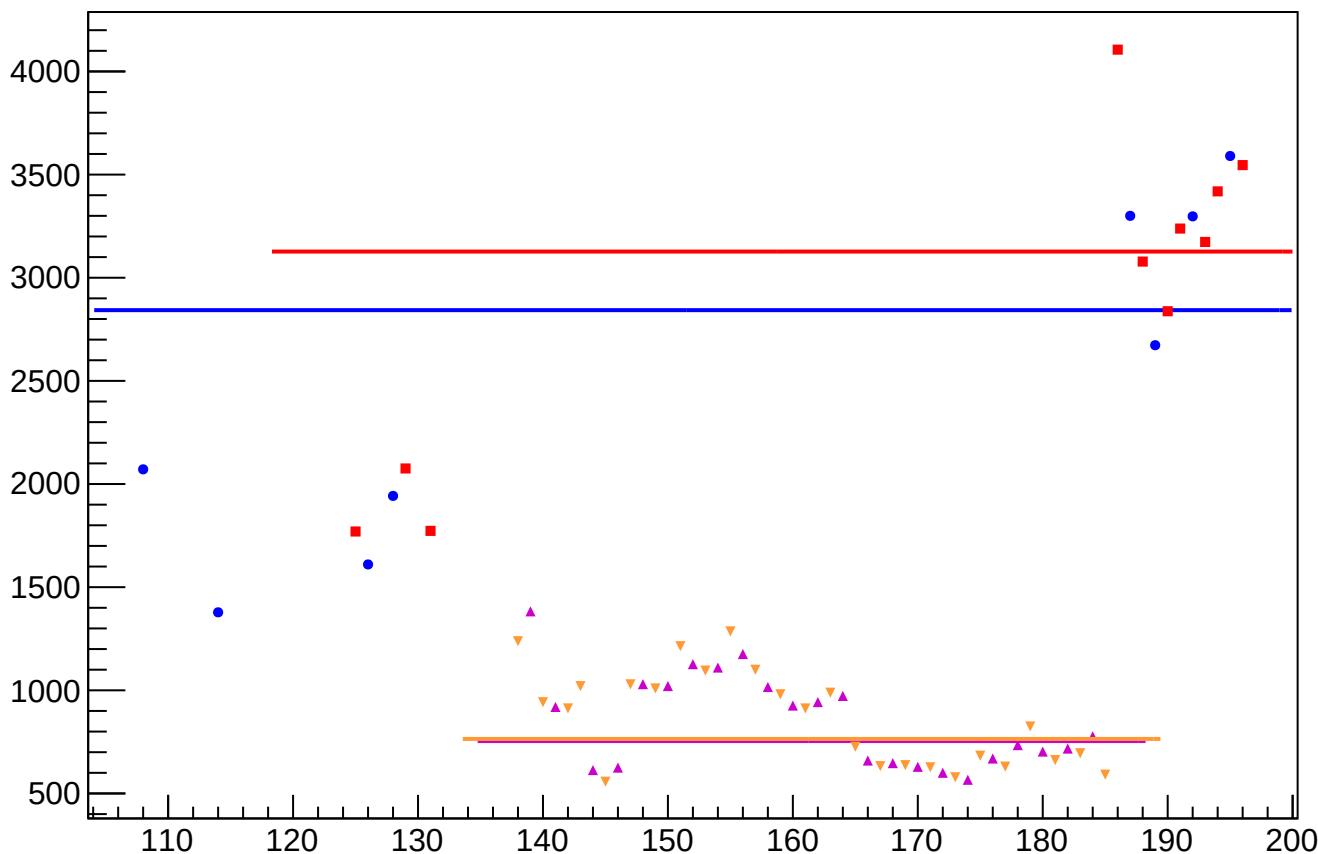
Right: 291.073 ± 1173.006 $\chi^2/\text{NDF}: 12.5/17$

In: 55.475 ± 185.708 $\chi^2/\text{NDF}: 30.5/30$

Out: -780.446 ± 183.115 $\chi^2/\text{NDF}: 80.2/34$

All: -368.360 ± 130.389 $\chi^2/\text{NDF}: 120.9/65$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2842.860 $\pm$ 1.308 χ^2/NDF : 315028.3/7

Left Out: 764.280 $\pm$ 0.130 χ^2/NDF :2315985.8/24

Right Out: 3126.904 $\pm$ 1.073 χ^2/NDF : 232141.1/9

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

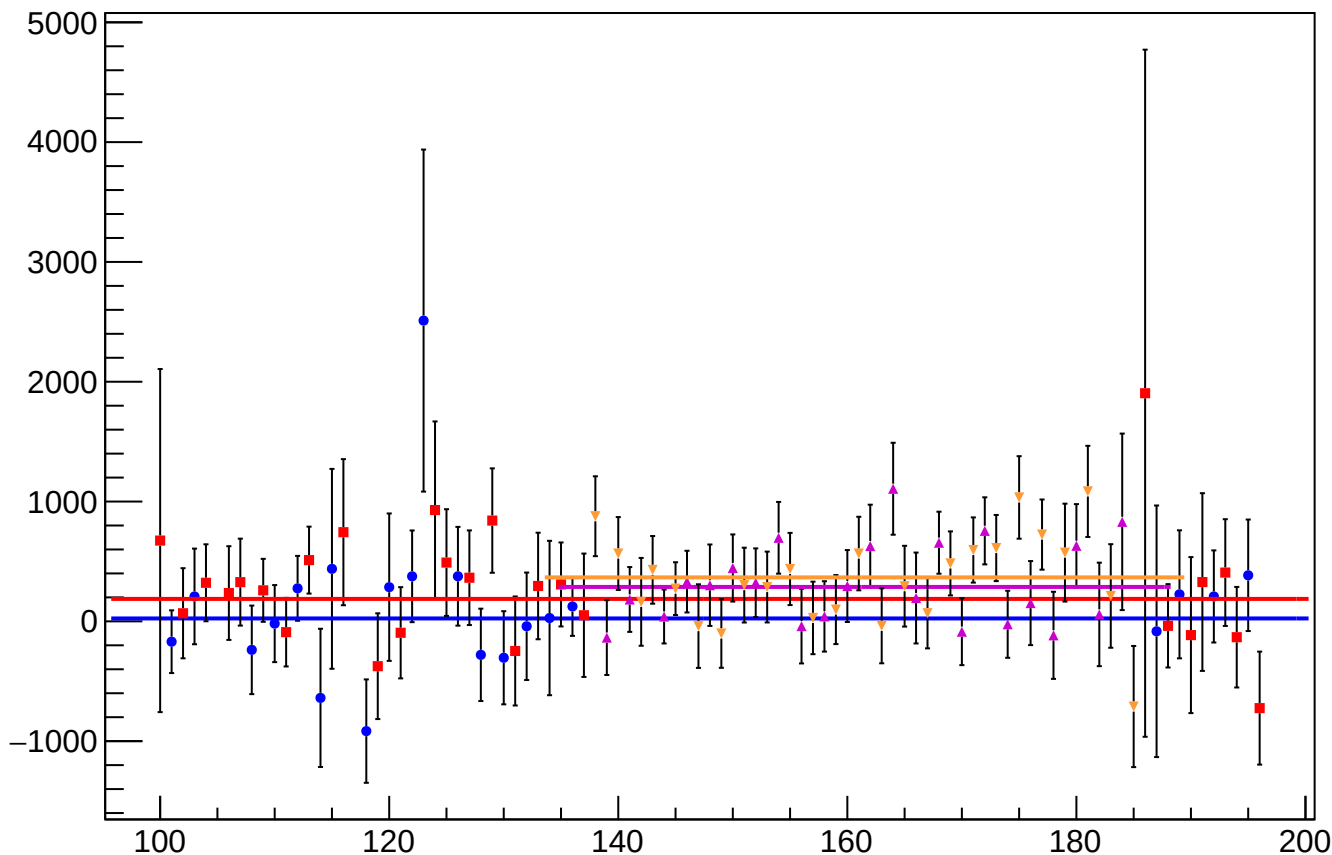
Right: 3012.671 $\pm$ 0.829 χ^2/NDF : 575365.5/17

In: 775.082 $\pm$ 0.131 χ^2/NDF :4853312.7/30

Out: 798.701 $\pm$ 0.129 χ^2/NDF :7328098.0/34

All: 787.057 $\pm$ 0.092 χ^2/NDF : 12197812.7/65

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 24.209 $\pm$ 87.613 χ^2/NDF : 15.8/20

Left Out: 367.028 $\pm$ 61.943 χ^2/NDF : 28.2/24

Right Out: 187.356 $\pm$ 80.655 χ^2/NDF : 16.6/25

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

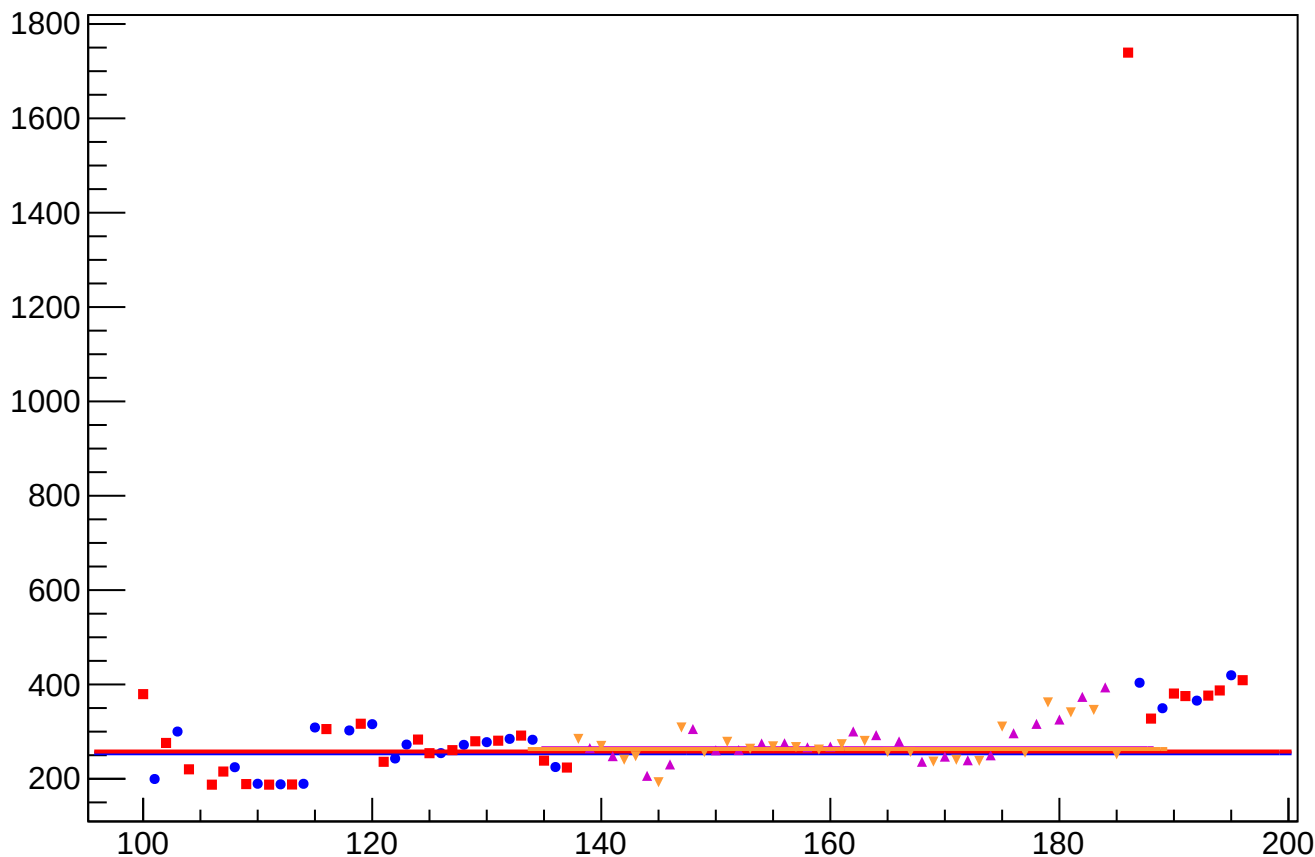
Right: 112.517 $\pm$ 59.339 χ^2/NDF : 34.2/46

In: 195.462 $\pm$ 51.754 χ^2/NDF : 45.5/43

Out: 300.370 $\pm$ 49.127 χ^2/NDF : 47.9/50

All: 250.646 $\pm$ 35.631 χ^2/NDF : 95.6/94

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 254.123+/-0.062 χ^2/NDF : 984664.1/20

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 257.841+/-0.057 χ^2/NDF : 1888598.2/25

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

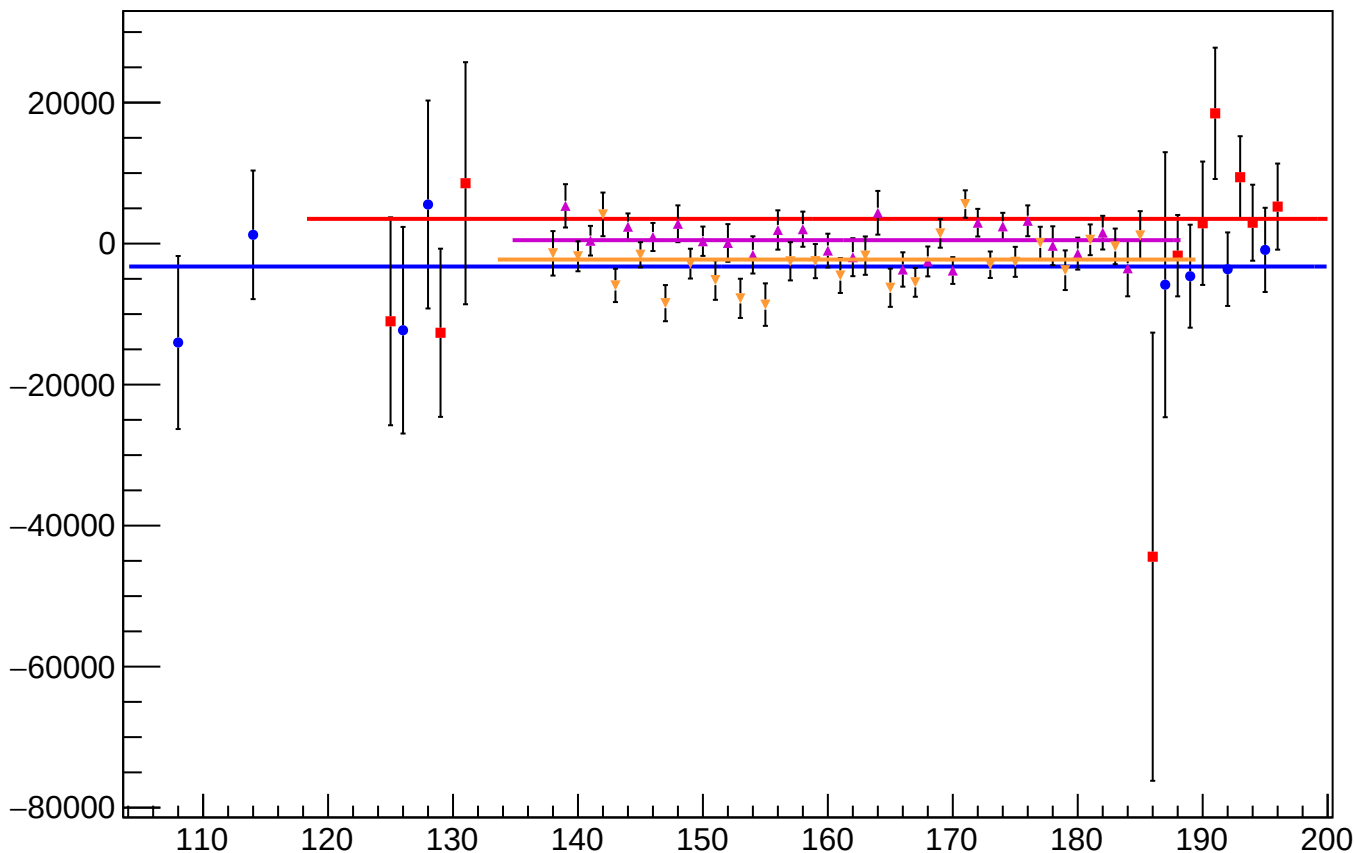
Right: 256.136+/-0.042 χ^2/NDF : 2875212.3/46

In: 261.154+/-0.037 χ^2/NDF : 1613474.9/43

Out: 261.151+/-0.035 χ^2/NDF : 2536177.5/50

All: 261.153+/-0.025 χ^2/NDF : 4149652.4/94

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3251.955 ± 2958.037 $\chi^2/\text{NDF}: 2.0/7$

Left Out: -2260.196 ± 475.336 $\chi^2/\text{NDF}: 52.3/24$

Right Out: 3506.804 ± 2488.534 $\chi^2/\text{NDF}: 9.7/9$

Left In: 485.590 ± 487.465 $\chi^2/\text{NDF}: 24.8/22$

Left: -921.890 ± 340.321 $\chi^2/\text{NDF}: 93.4/47$

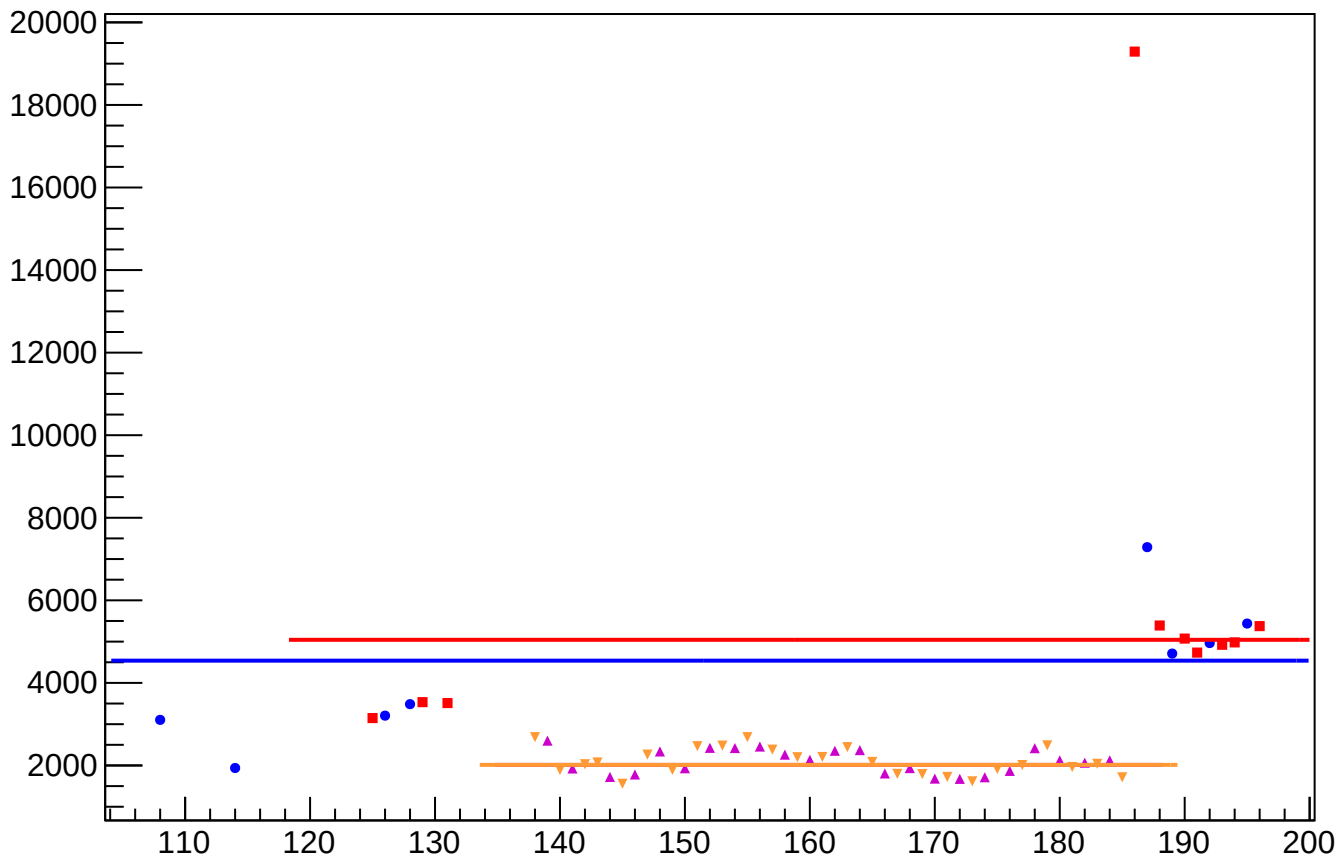
Right: 705.743 ± 1904.282 $\chi^2/\text{NDF}: 14.7/17$

In: 386.773 ± 480.978 $\chi^2/\text{NDF}: 28.3/30$

Out: -2057.194 ± 466.895 $\chi^2/\text{NDF}: 67.2/34$

All: -871.515 ± 335.013 $\chi^2/\text{NDF}: 108.8/65$

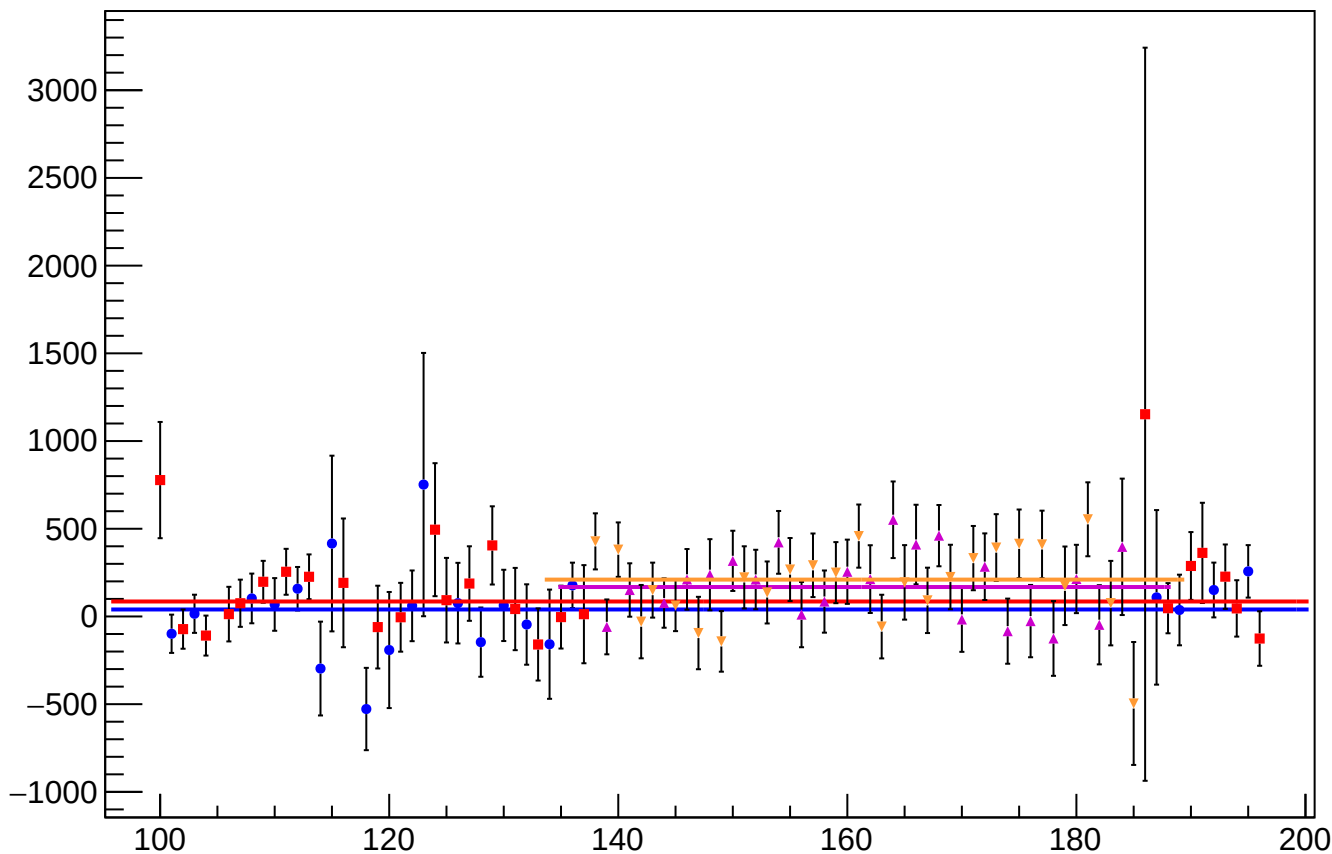
asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4538.977 $\pm$ 2.092 χ^2 /NDF: 319217.5/7
 Left Out: 2014.106 $\pm$ 0.336 χ^2 /NDF: 835656.9/24
 Right Out: 5043.562 $\pm$ 1.760 χ^2 /NDF: 499480.6/9
 Left In: 2013.245 $\pm$ 0.345 χ^2 /NDF: 662077.8/22

Left: 2013.686 $\pm$ 0.241 χ^2 /NDF: 1497737.9/47
 Right: 4834.445 $\pm$ 1.347 χ^2 /NDF: 852775.6/17
 In: 2080.023 $\pm$ 0.340 χ^2 /NDF: 2400877.1/30
 Out: 2120.744 $\pm$ 0.330 χ^2 /NDF: 4194764.0/34
 All: 2100.989 $\pm$ 0.237 χ^2 /NDF: 6603022.1/65

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 39.813+/-38.588 χ^2/NDF : 17.4/20

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 85.344+/-34.216 χ^2/NDF : 24.0/25

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

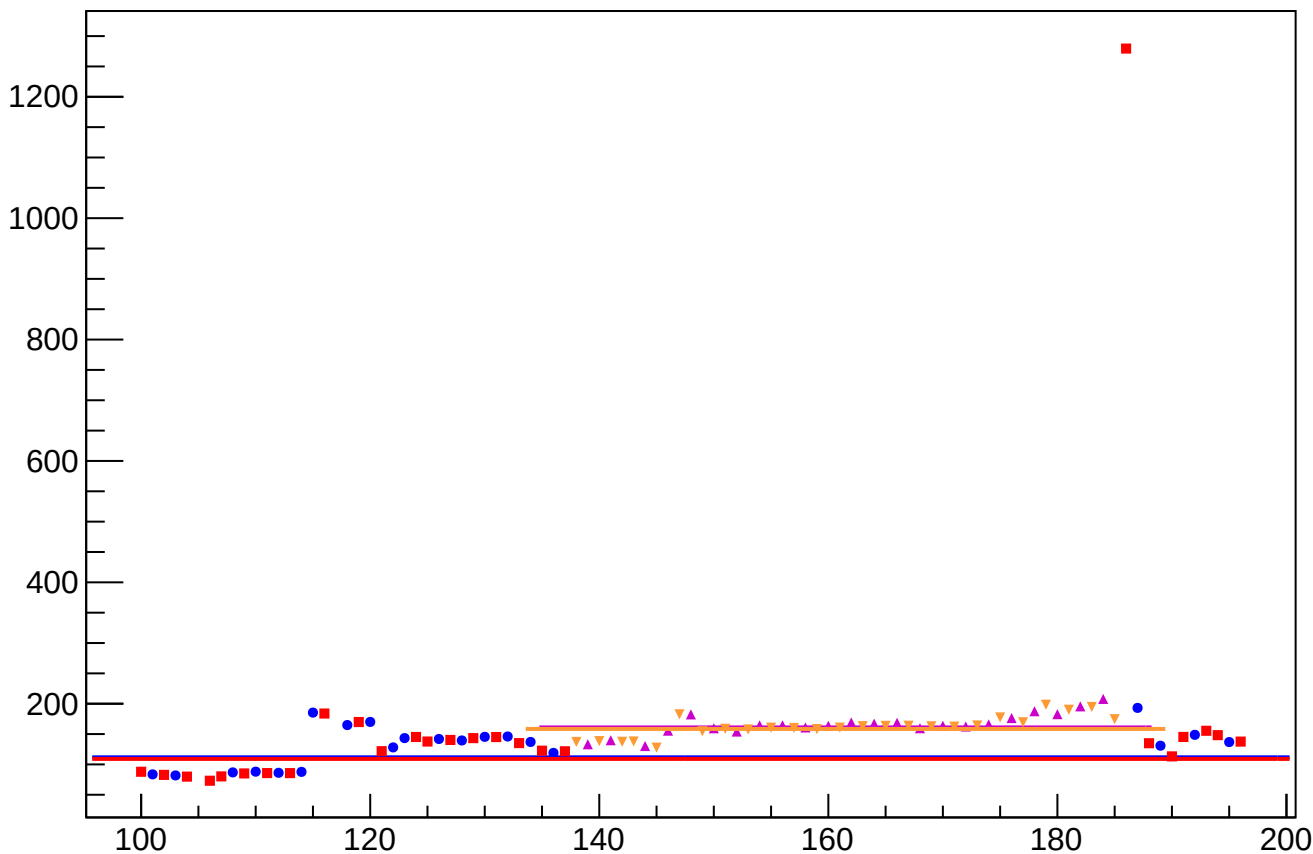
Right: 65.303+/-25.601 χ^2/NDF : 42.2/46

In: 103.602+/-27.331 χ^2/NDF :44.0/43

Out: 142.689+/-25.150 χ^2/NDF :57.7/50

All: 124.768+/-18.507 χ^2/NDF : 102.8/94

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 111.655+/-0.027 χ^2/NDF : 1153989.0/20

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 109.075+/-0.024 χ^2/NDF : 2155013.9/25

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

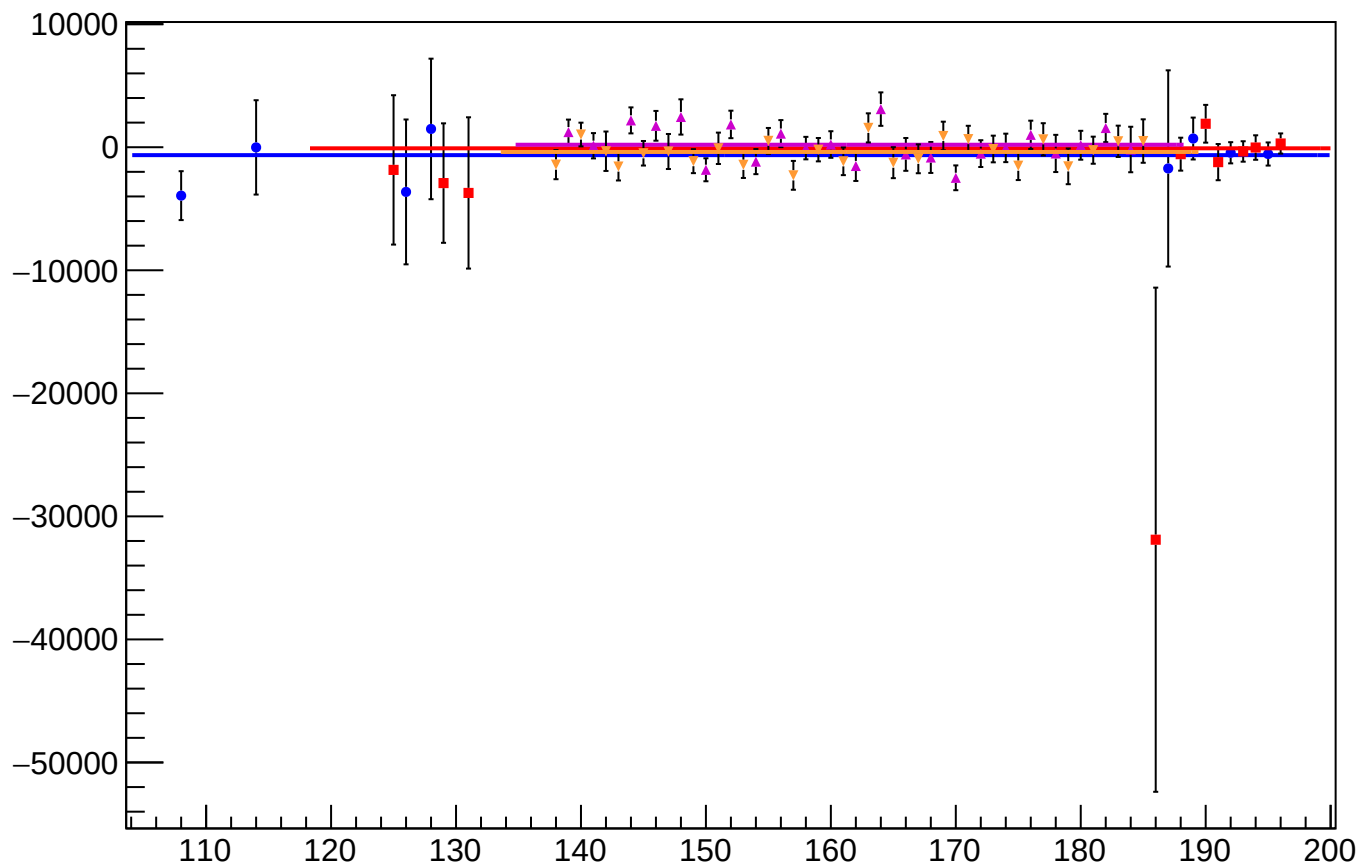
Right: 110.211+/-0.018 χ^2/NDF : 3314010.4/46

In: 136.218+/-0.019 χ^2/NDF : 3159955.3/43

Out: 131.769+/-0.018 χ^2/NDF : 4503176.2/50

All: 133.809+/-0.013 χ^2/NDF : 7691838.2/94

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -642.870+/-557.050 χ^2/NDF : 3.9/7

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: -88.435+/-426.657 χ^2/NDF : 5.9/9

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

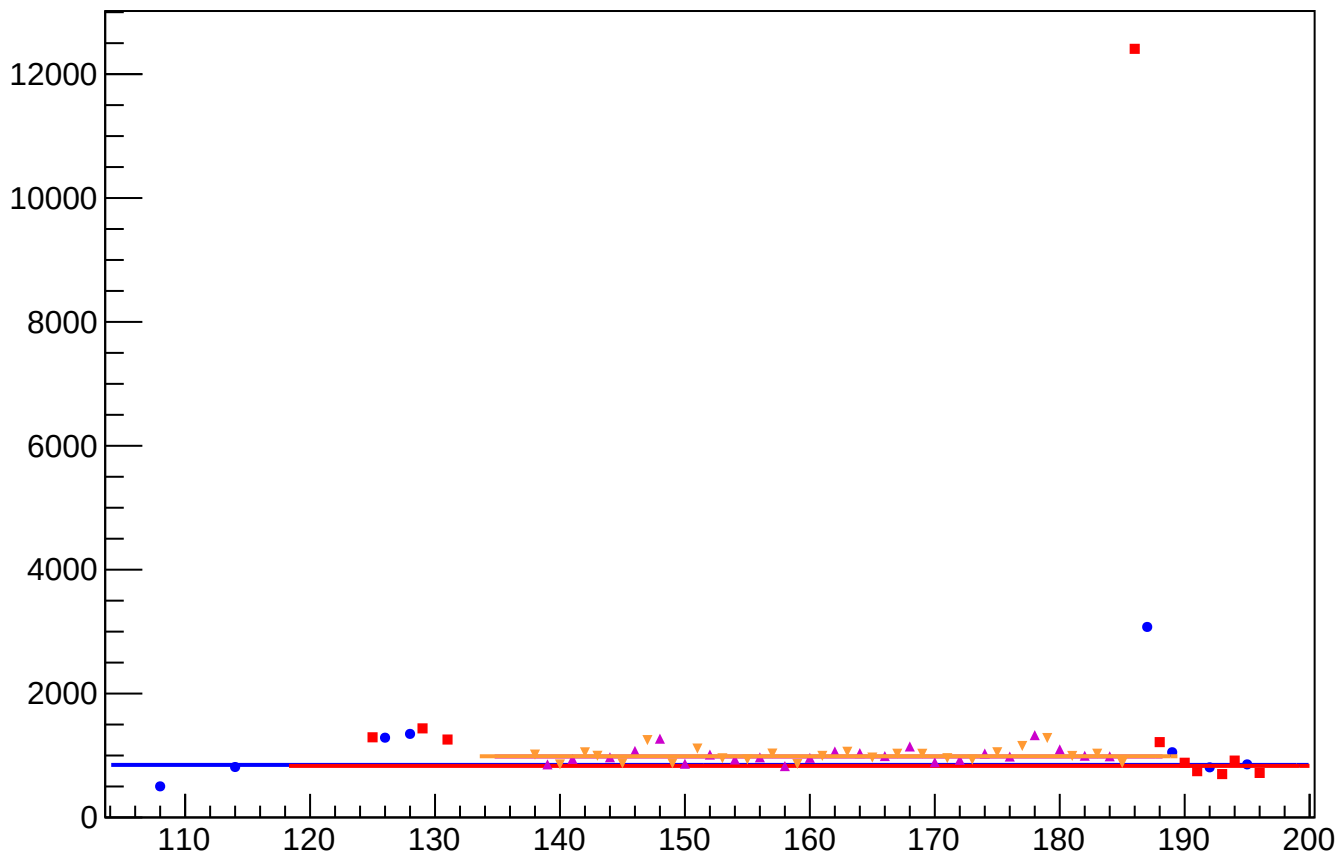
Right: -293.430+/-338.720 χ^2/NDF : 10.4/17

In: 72.280+/-218.441 χ^2/NDF : 41.3/30

Out: -317.412+/-203.704 χ^2/NDF : 24.3/34

All: -136.154+/-148.978 χ^2/NDF : 67.3/65

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 848.399+/-0.394 χ^2/NDF : 276758.8/7

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 832.265+/-0.302 χ^2/NDF : 968095.5/9

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

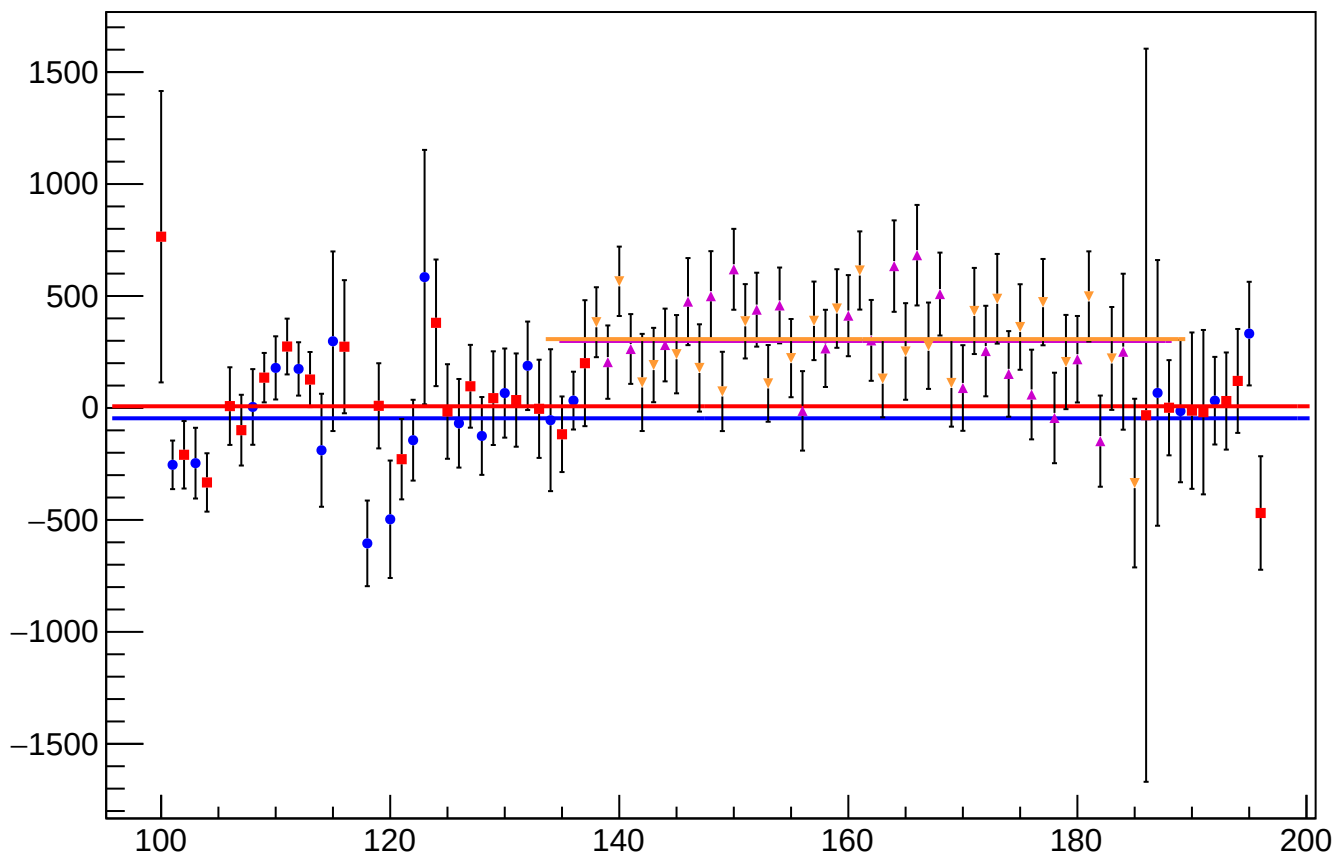
Right: 838.230+/-0.240 χ^2/NDF : 1245911.8/17

In: 963.058+/-0.154 χ^2/NDF : 793155.9/30

Out: 952.399+/-0.144 χ^2/NDF : 1550435.0/34

All: 957.357+/-0.105 χ^2/NDF : 2346138.0/65

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -46.139 ± 40.308 $\chi^2/\text{NDF}: 30.6/20$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: 7.523 ± 36.926 $\chi^2/\text{NDF}: 26.9/25$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

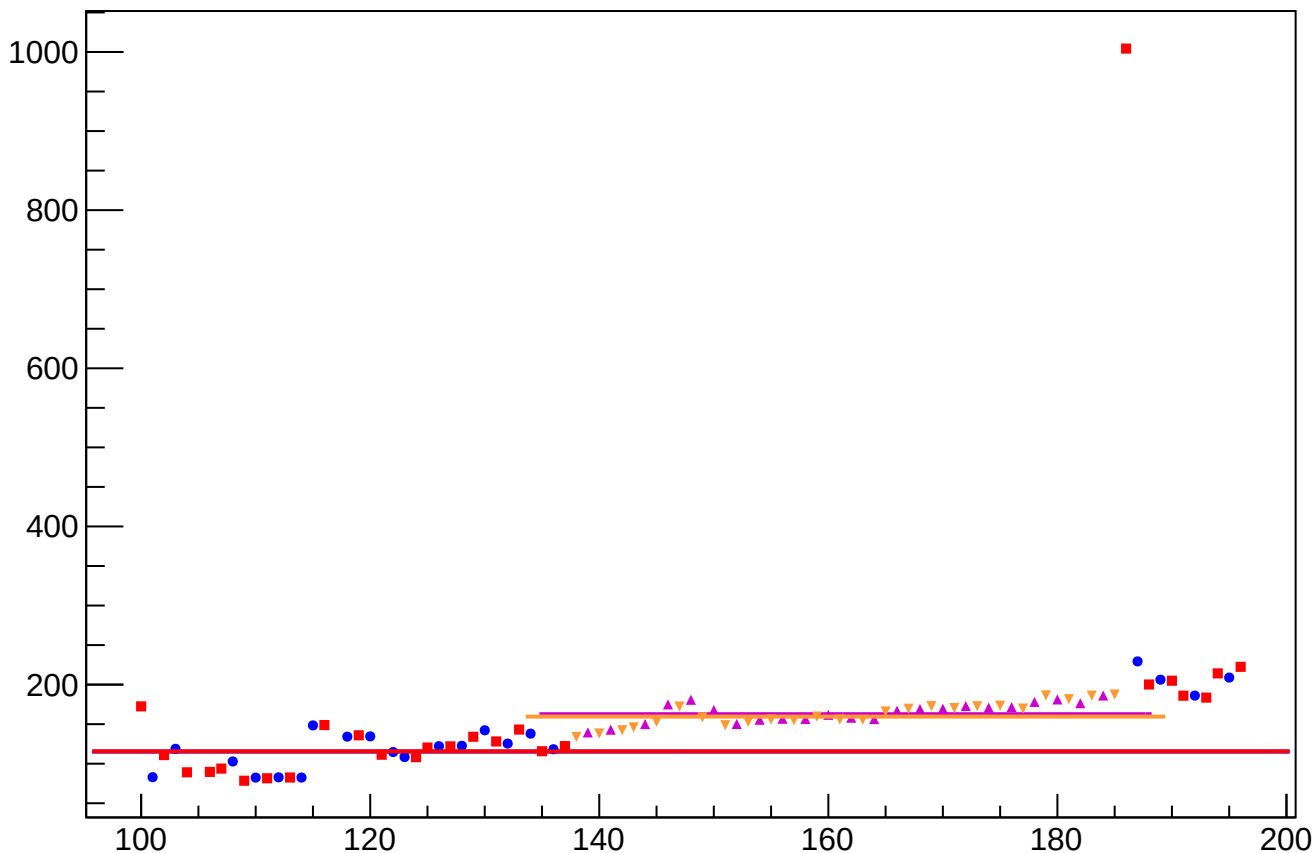
Right: -16.963 ± 27.228 $\chi^2/\text{NDF}: 58.5/46$

In: 132.182 ± 28.032 $\chi^2/\text{NDF}: 97.0/43$

Out: 156.084 ± 26.234 $\chi^2/\text{NDF}: 80.3/50$

All: 144.924 ± 19.154 $\chi^2/\text{NDF}: 177.8/94$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 115.373+/-0.029 χ^2/NDF : 1412608.7/20

Left Out: 159.568+/-0.026 χ^2/NDF :287744.2/24

Right Out: 115.576+/-0.026 χ^2/NDF : 2835613.2/25

Left In: 162.606+/-0.028 χ^2/NDF :199542.3/22

Left: 161.019 ± 0.019 $\chi^2/\text{NDF}: 493626.9/47$

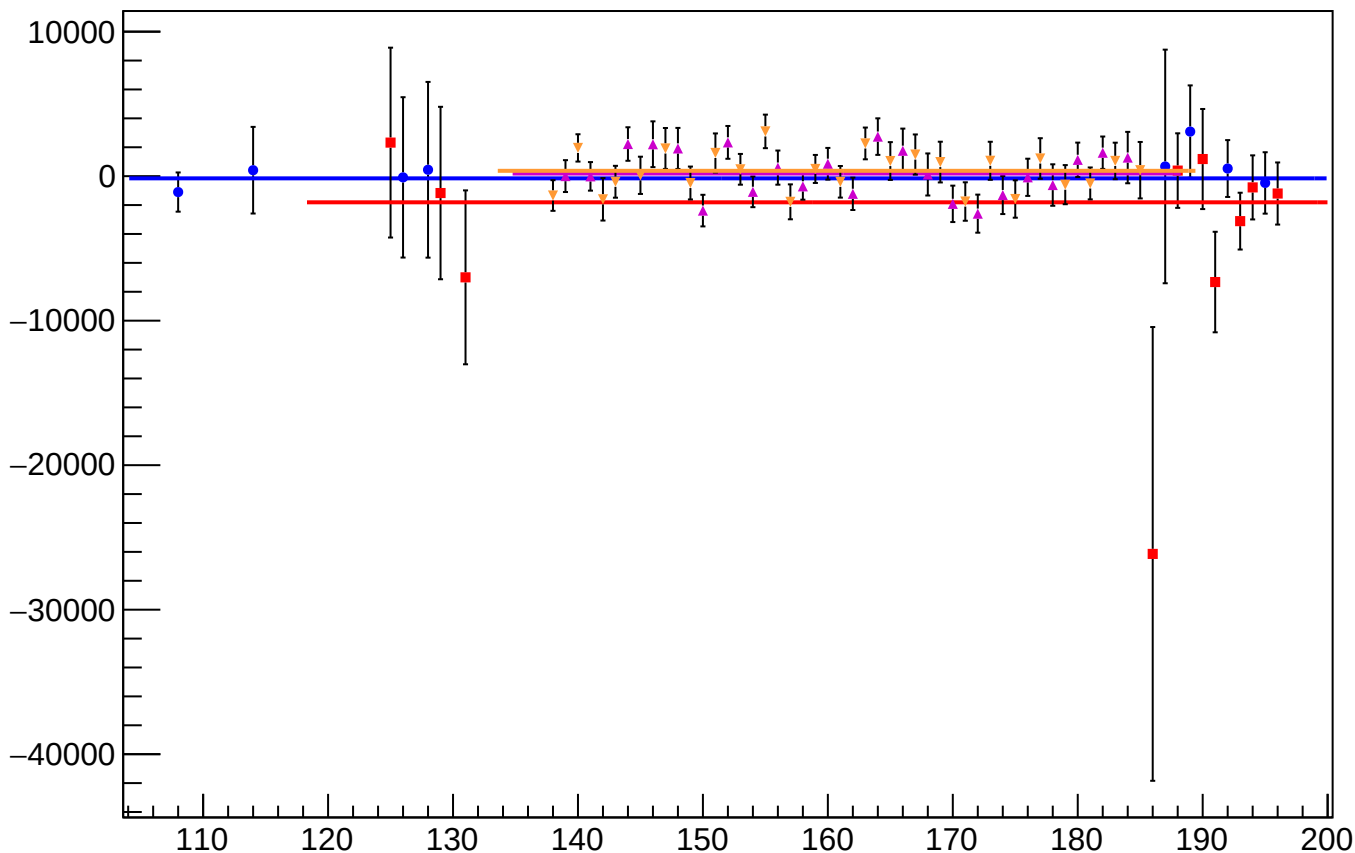
Right: 115.484+/-0.019 χ^2/NDF : 4248249.5/46

In: 139.763+/-0.020 χ^2/NDF :3030231.6/43

Out: 137.364+/-0.019 χ^2/NDF :4529243.6/50

All: 138.484+/-0.014 χ^2/NDF : 7567287.3/94

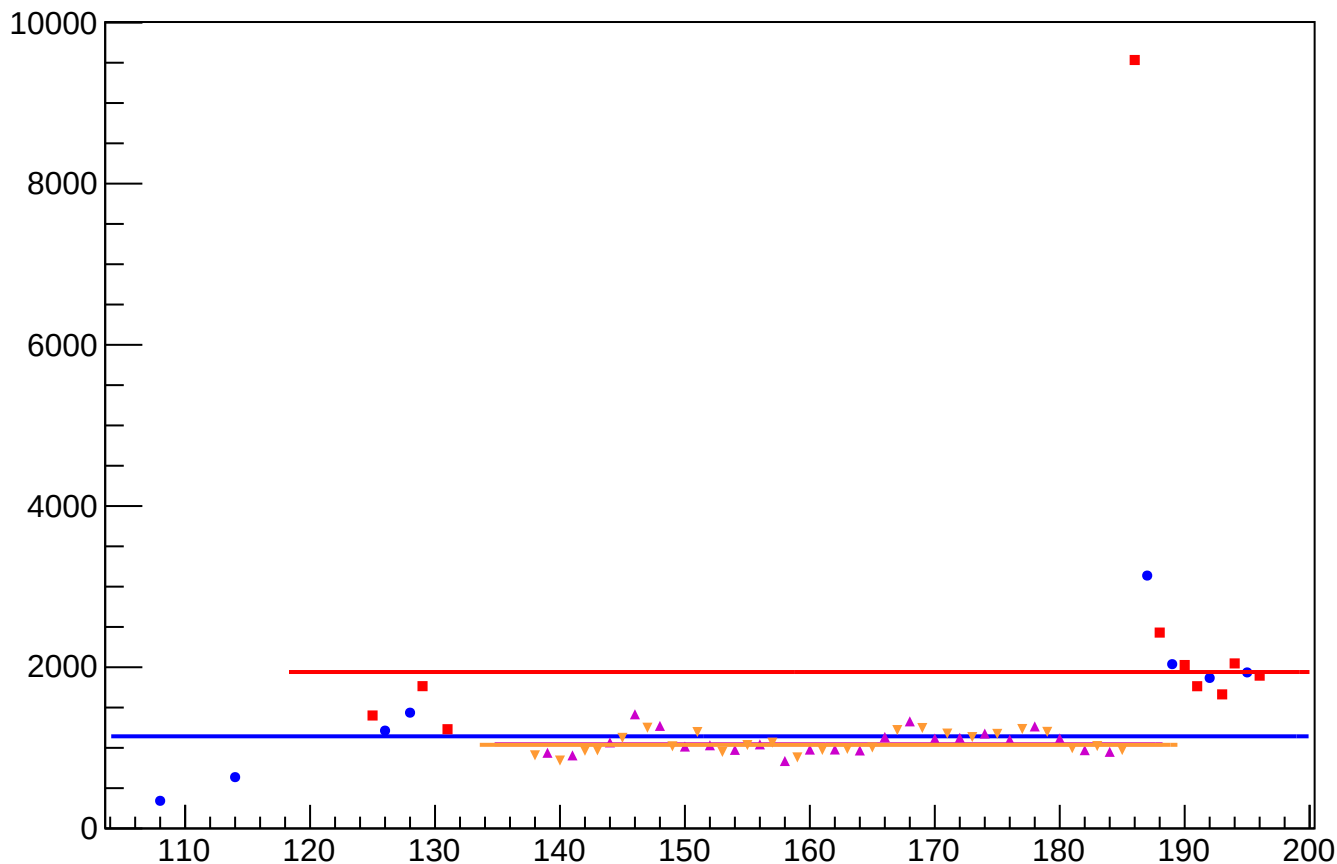
asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -151.726+/-874.653 χ^2/NDF : 1.7/7
 Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24
 Right Out: -1809.876+/-963.141 χ^2/NDF : 8.3/9
 Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47
 Right: -901.147+/-647.502 χ^2/NDF : 11.6/17
 In: 157.394+/-242.379 χ^2/NDF :38.3/30
 Out: 239.019+/-236.091 χ^2/NDF :43.6/34
 All: 199.279+/-169.121 χ^2/NDF : 81.9/65

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1143.103 $\pm$ 0.618 χ^2/NDF : 1585789.0/7

Left Out: 1037.689 $\pm$ 0.172 χ^2/NDF : 494981.4/24

Right Out: 1940.911 $\pm$ 0.681 χ^2/NDF : 634428.8/9

Left In: 1044.746 $\pm$ 0.178 χ^2/NDF : 543315.5/22

Left: 1041.093 $\pm$ 0.124 χ^2/NDF : 1039107.0/47

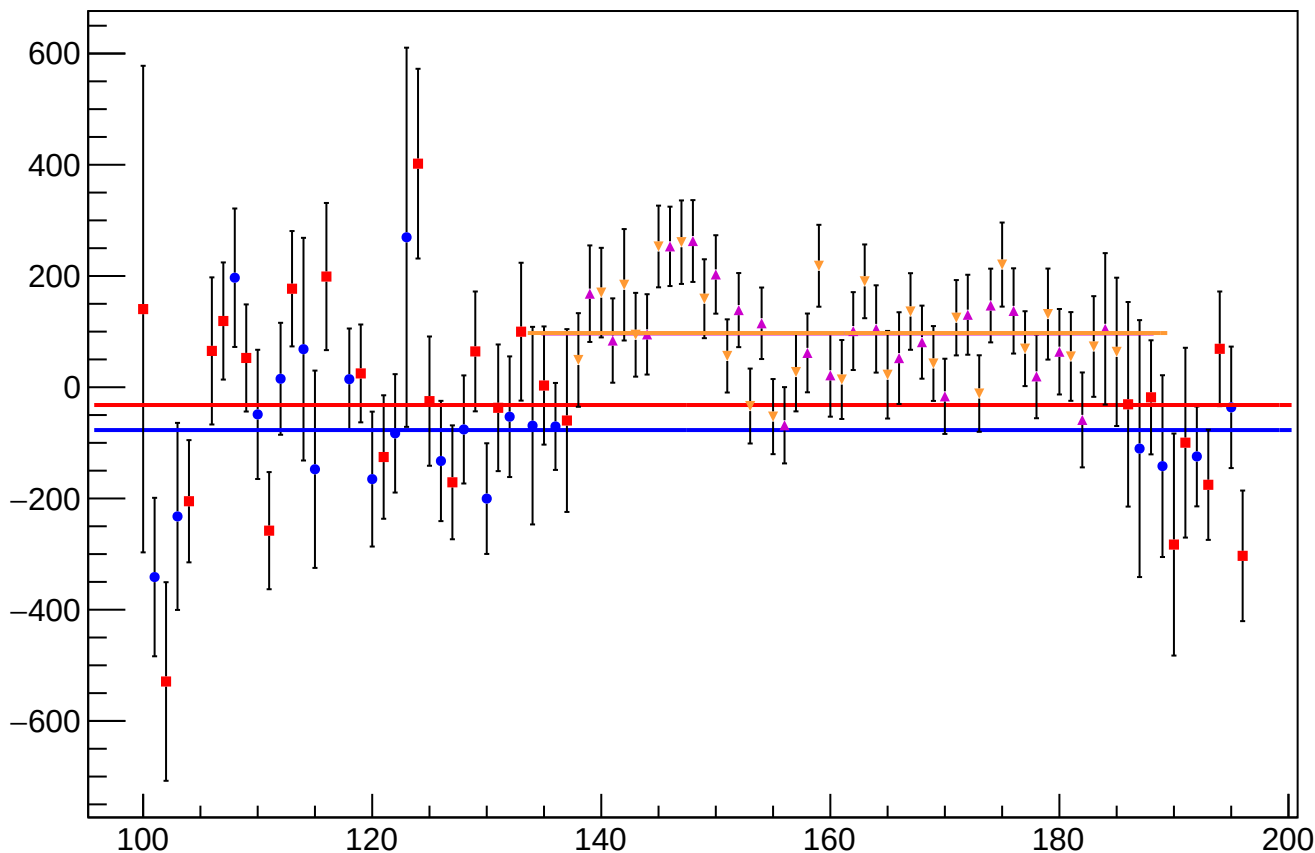
Right: 1503.682 $\pm$ 0.458 χ^2/NDF : 2972287.1/17

In: 1052.299 $\pm$ 0.171 χ^2/NDF : 2152453.4/30

Out: 1091.961 $\pm$ 0.167 χ^2/NDF : 2782614.6/34

All: 1072.651 $\pm$ 0.120 χ^2/NDF : 4962548.8/65

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -76.999 ± 25.812 χ^2/NDF : 15.7/20

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -31.964 ± 23.339 χ^2/NDF : 47.1/25

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

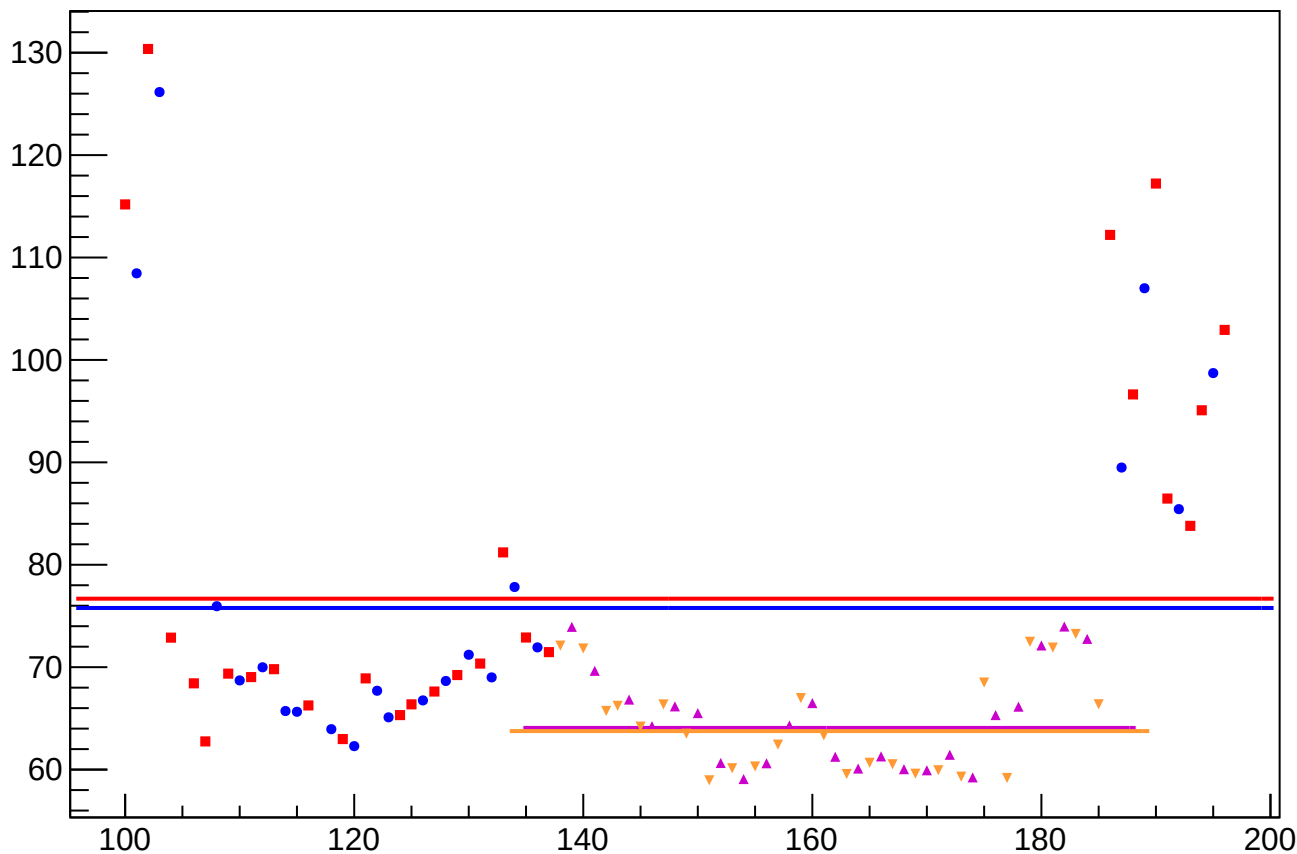
Right: -52.222 ± 17.312 χ^2/NDF : 64.6/46

In: 51.239 ± 13.206 χ^2/NDF : 78.4/43

Out: 60.047 ± 12.547 χ^2/NDF : 105.0/50

All: 55.868 ± 9.096 χ^2/NDF : 183.6/94

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 75.782 $\pm$ 0.018 χ^2 /NDF: 615546.0/20

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 76.687 $\pm$ 0.017 χ^2 /NDF: 819885.0/25

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

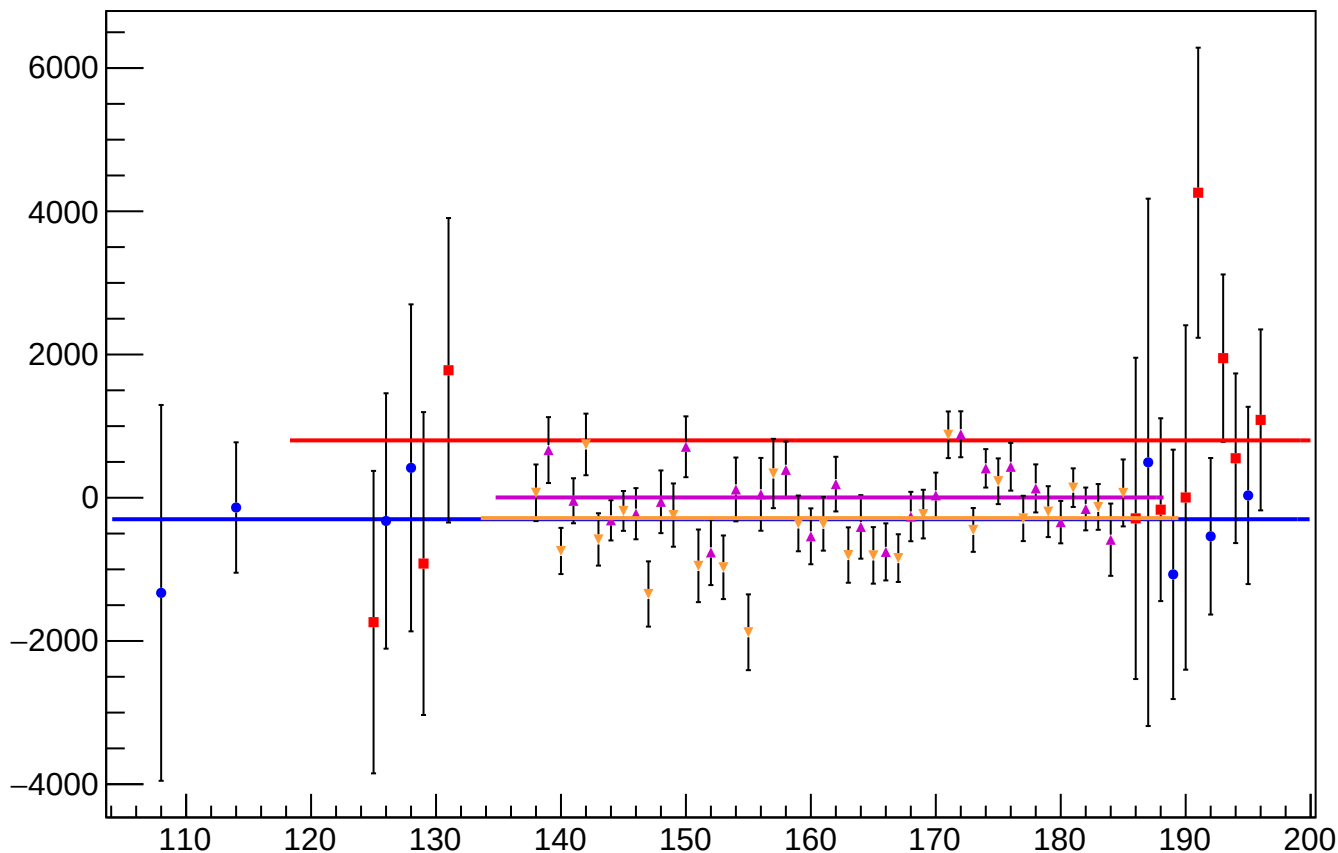
Right: 76.280 $\pm$ 0.012 χ^2 /NDF: 1436785.5/46

In: 67.134 $\pm$ 0.009 χ^2 /NDF:1084257.2/43

Out: 67.497 $\pm$ 0.009 χ^2 /NDF:1448872.6/50

All: 67.325 $\pm$ 0.006 χ^2 /NDF: 2533921.1/94

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -299.984 $\pm$ 516.324 χ^2 /NDF: 0.6/7

Left Out: -284.304 $\pm$ 72.732 χ^2 /NDF:55.1/24

Right Out: 800.952 $\pm$ 501.908 χ^2 /NDF: 7.2/9

Left In: 4.037 $\pm$ 75.084 χ^2 /NDF:32.4/22

Left: -144.720 $\pm$ 52.241 χ^2 /NDF: 95.0/47

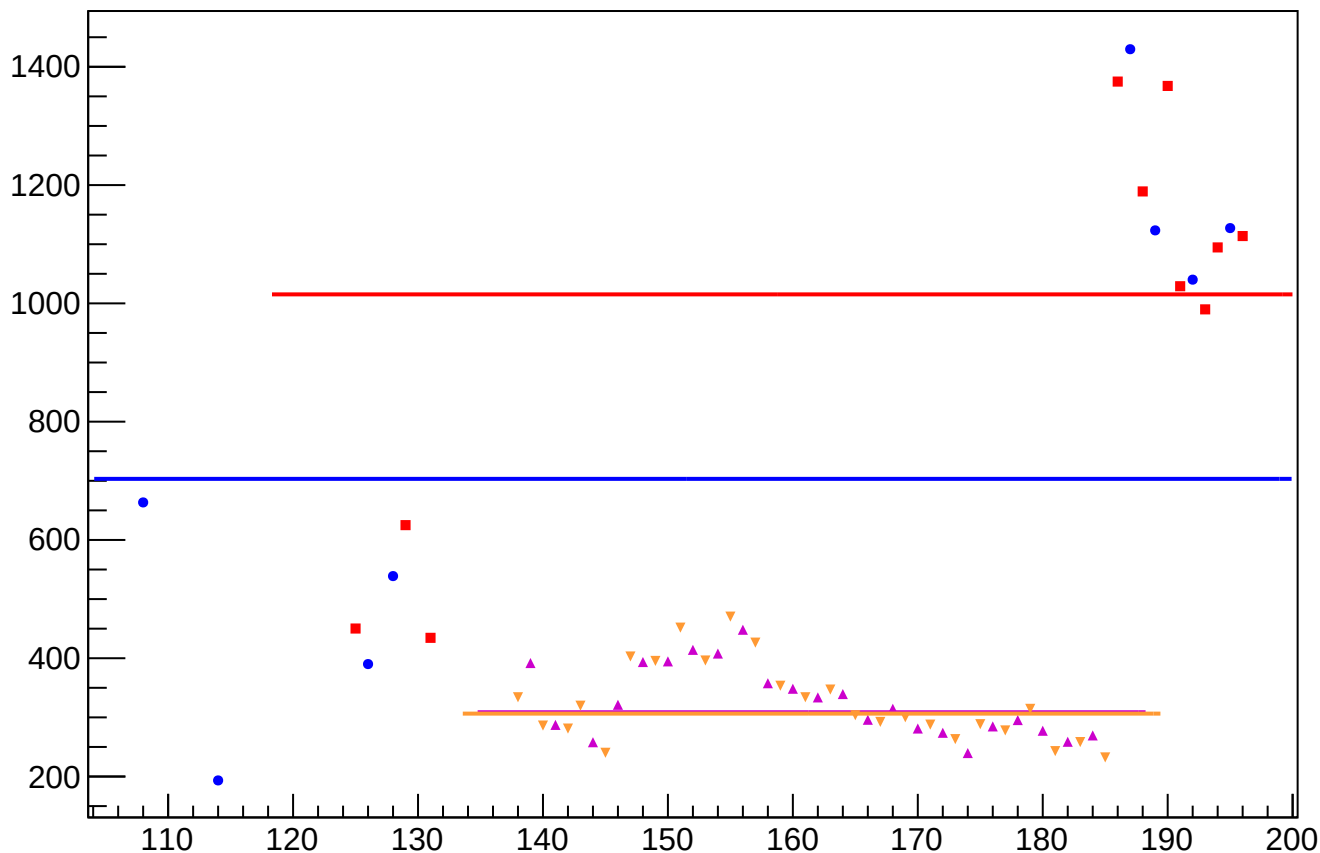
Right: 266.068 $\pm$ 359.891 χ^2 /NDF: 10.2/17

In: -2.259 $\pm$ 74.303 χ^2 /NDF:33.3/30

Out: -261.983 $\pm$ 71.981 χ^2 /NDF:66.8/34

All: -136.243 $\pm$ 51.699 χ^2 /NDF: 106.5/65

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 703.283+/-0.365 χ^2/NDF : 1318537.0/7

Left Out: 306.363+/-0.051 χ^2/NDF :1215669.9/24

Right Out: 1015.215+/-0.355 χ^2/NDF : 514286.6/9

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

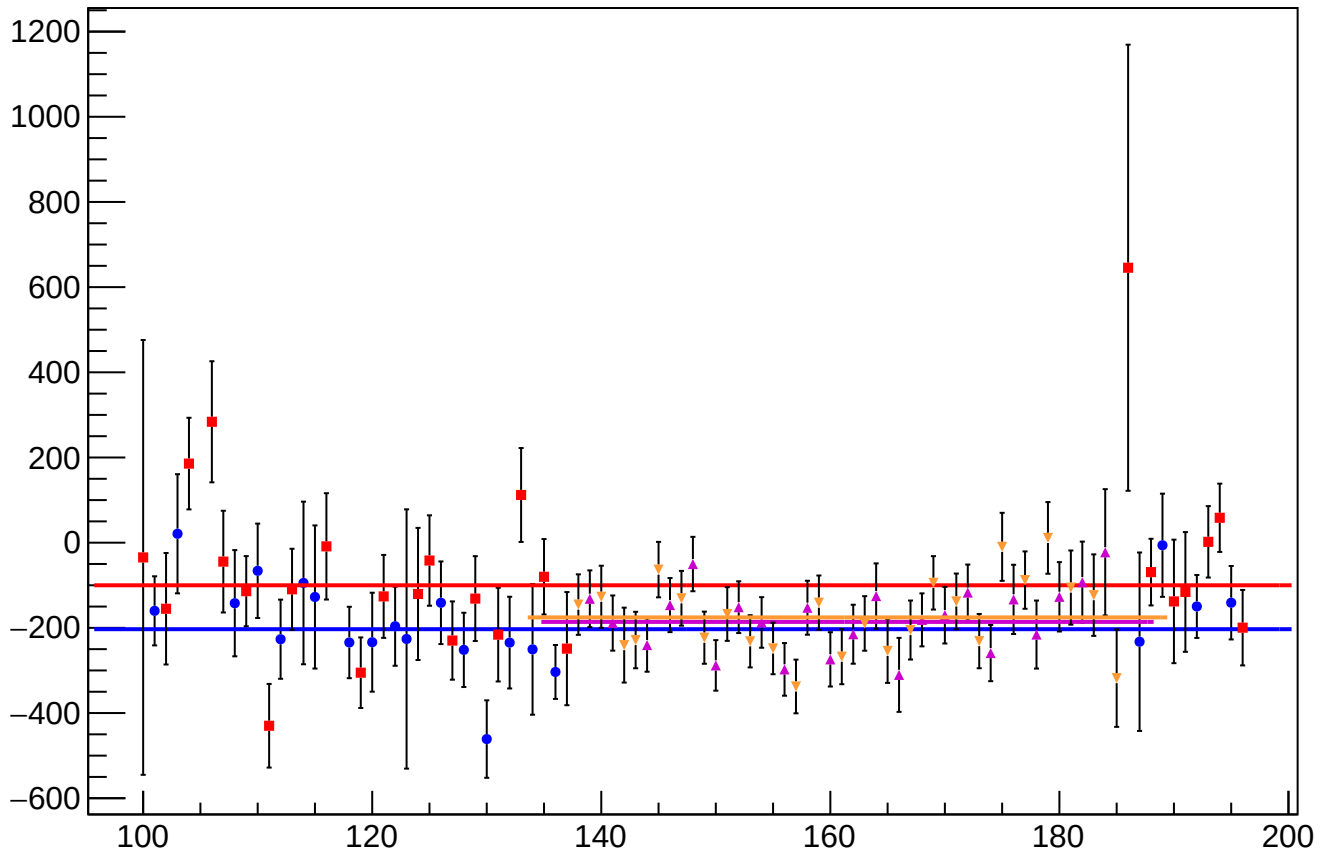
Right: 863.664+/-0.254 χ^2/NDF : 2208141.2/17

In: 316.898+/-0.053 χ^2/NDF :3465190.6/30

Out: 320.942+/-0.051 χ^2/NDF :5637169.0/34

All: 318.984+/-0.037 χ^2/NDF : 9105416.8/65

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -203.132+/-22.272 χ^2/NDF : 20.6/20

Left Out: -175.471+/-13.846 χ^2/NDF : 34.6/24

Right Out: -100.036+/-20.699 χ^2/NDF : 50.3/25

Left In: -186.047+/-14.315 χ^2/NDF : 23.6/22

Left: -180.583+/-9.952 χ^2/NDF : 58.5/47

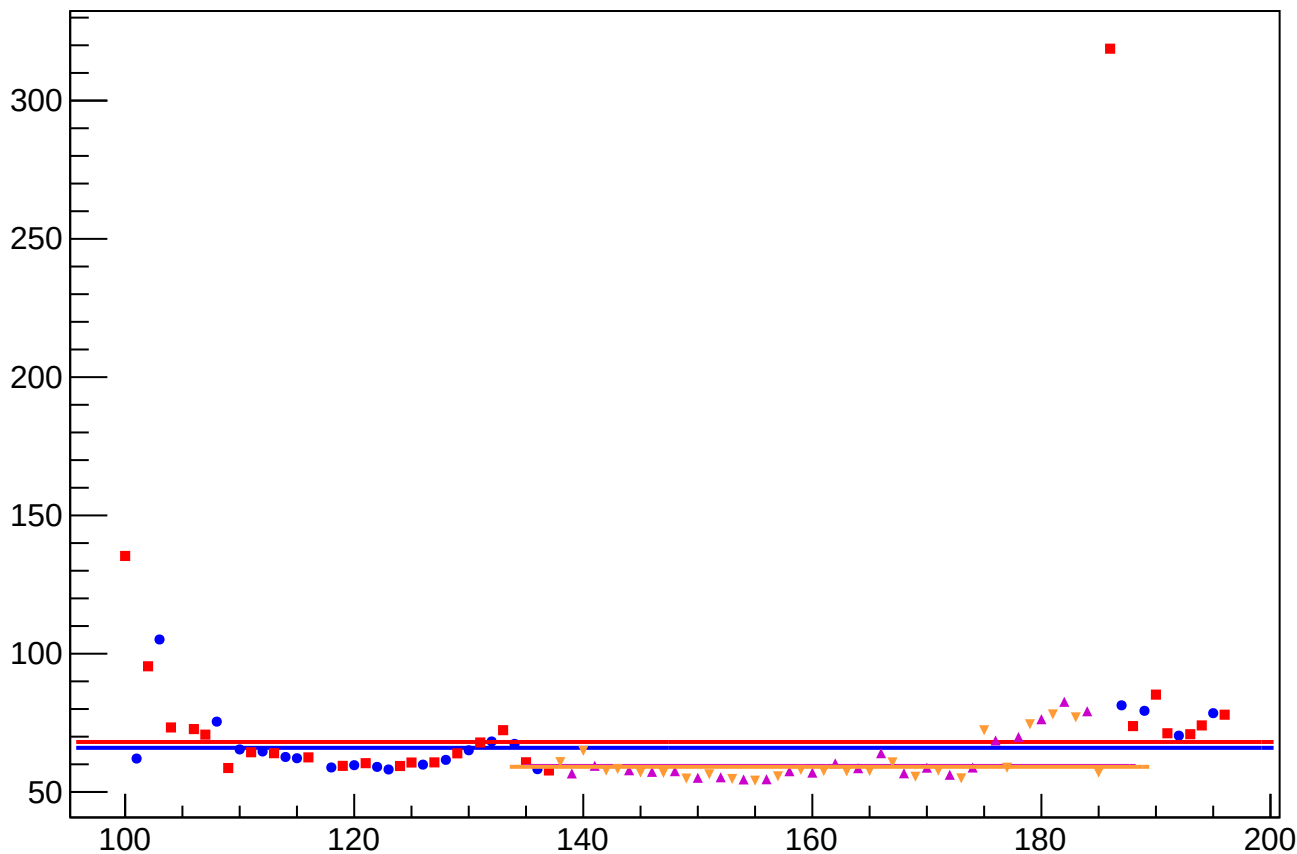
Right: -147.816+/-15.162 χ^2/NDF : 82.4/46

In: -191.042+/-12.042 χ^2/NDF : 44.6/43

Out: -152.152+/-11.508 χ^2/NDF : 94.1/50

All: -170.716+/-8.320 χ^2/NDF : 144.1/94

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 65.963 $\pm$ 0.016 χ^2 /NDF: 335927.5/20

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.080 $\pm$ 0.015 χ^2 /NDF: 798084.9/25

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

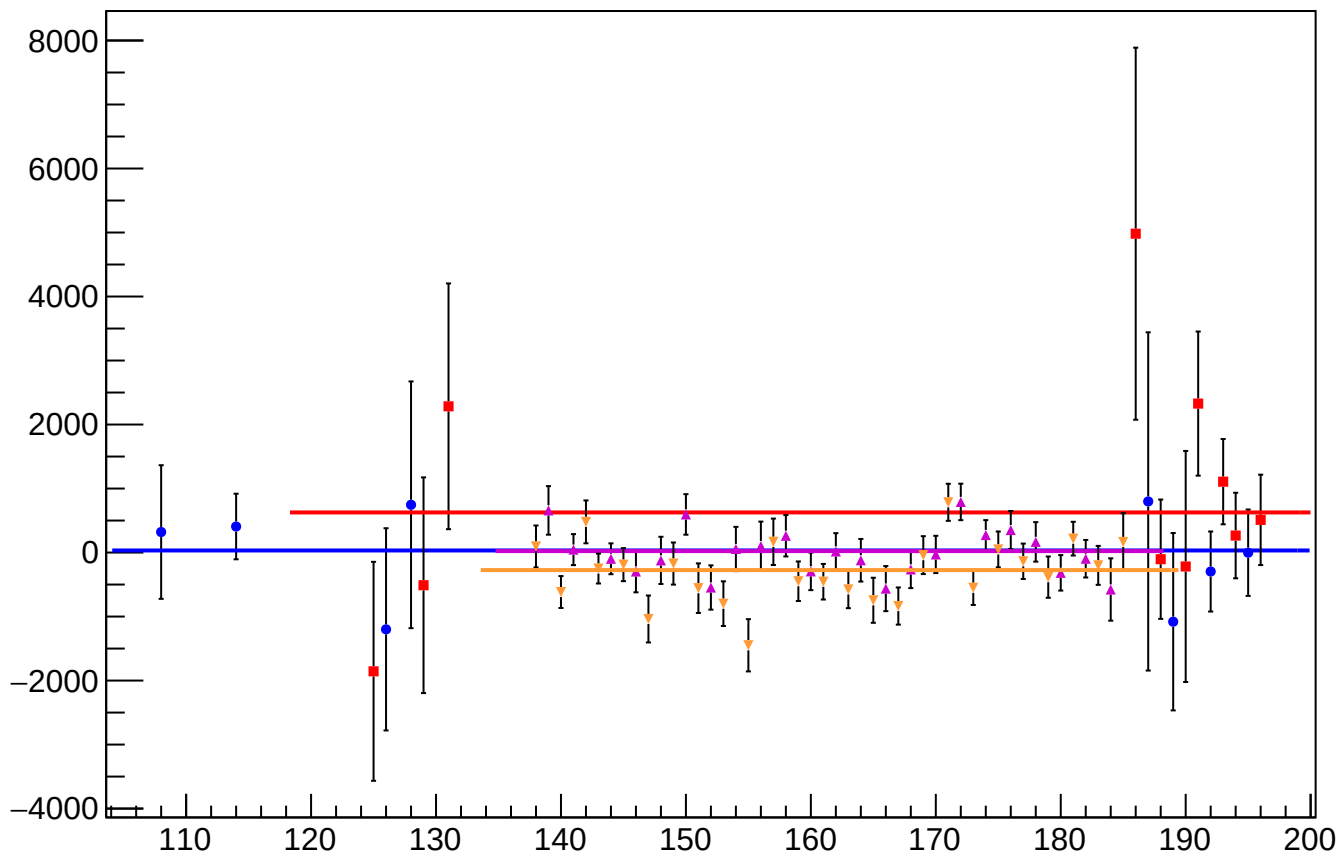
Right: 67.099 $\pm$ 0.011 χ^2 /NDF: 1143706.0/46

In: 61.326 $\pm$ 0.009 χ^2 /NDF: 831506.1/43

Out: 61.875 $\pm$ 0.008 χ^2 /NDF: 1427986.6/50

All: 61.613 $\pm$ 0.006 χ^2 /NDF: 2261667.8/94

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 32.624 $\pm$ 304.109 χ^2/NDF : 2.4/7

Left Out: -274.091 $\pm$ 60.799 χ^2/NDF : 53.9/24

Right Out: 626.715 $\pm$ 318.965 χ^2/NDF : 9.5/9

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

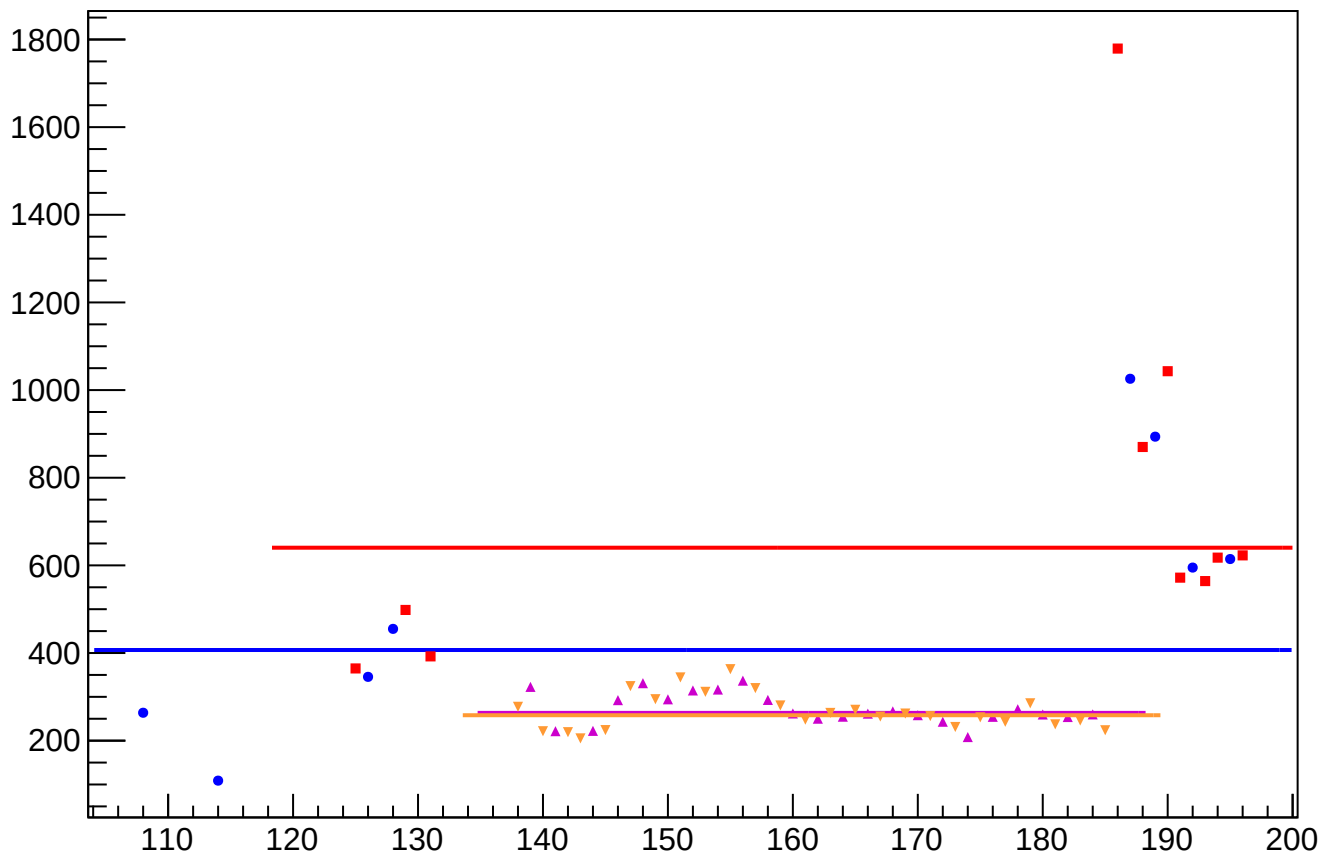
Right: 315.512 $\pm$ 220.102 χ^2/NDF : 13.7/17

In: 23.050 $\pm$ 62.294 χ^2/NDF : 31.3/30

Out: -242.509 $\pm$ 59.724 χ^2/NDF : 71.1/34

All: -115.319 $\pm$ 43.111 χ^2/NDF : 111.8/65

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 406.877+/-0.215 χ^2/NDF : 1445549.8/7

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 640.326+/-0.226 χ^2/NDF : 664862.3/9

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

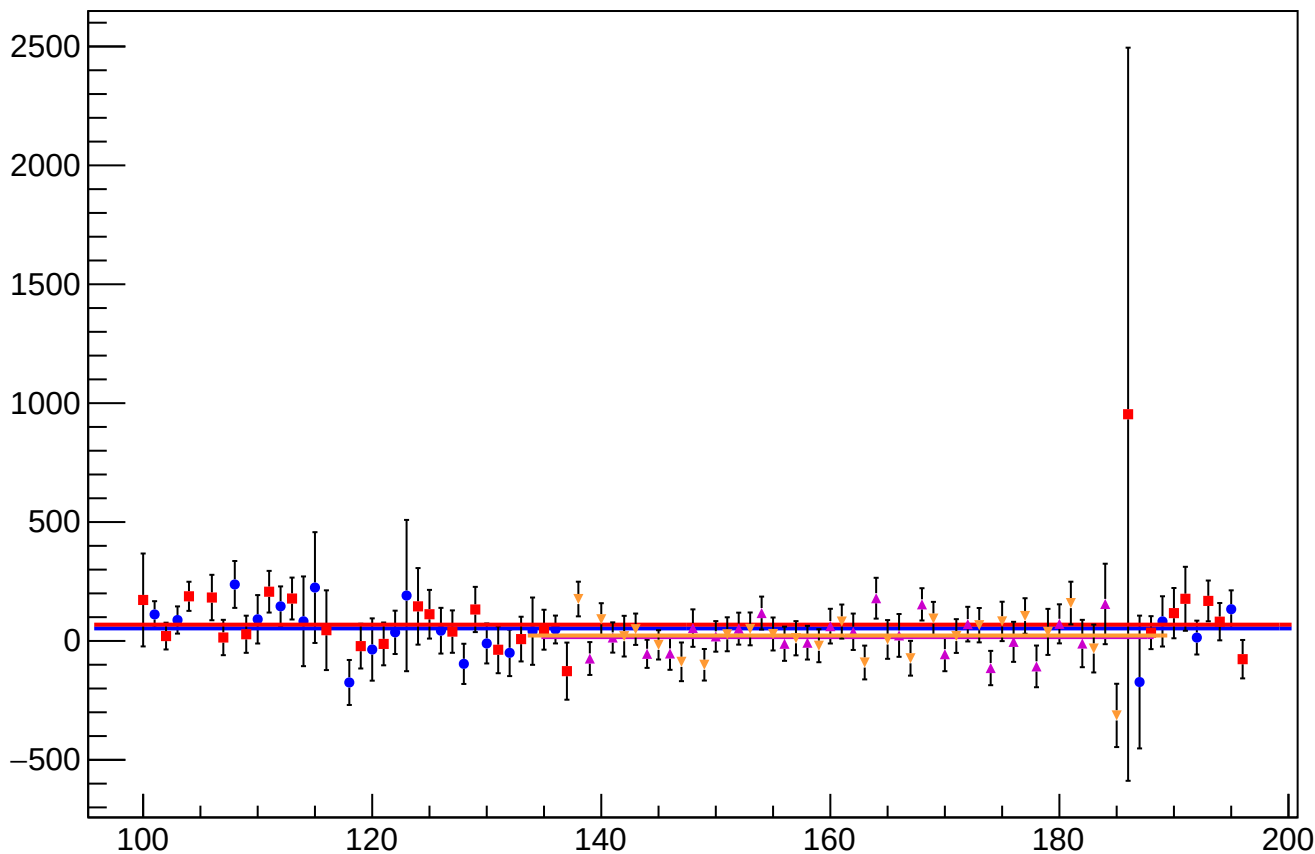
Right: 518.039+/-0.156 χ^2/NDF : 2671613.9/17

In: 269.417+/-0.044 χ^2/NDF : 2457671.6/30

Out: 271.443+/-0.042 χ^2/NDF : 4161864.5/34

All: 270.473+/-0.030 χ^2/NDF : 6620638.5/65

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 52.772 $\pm$ 19.566 χ^2 /NDF: 20.3/20

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 68.534 $\pm$ 17.687 χ^2 /NDF: 24.1/25

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

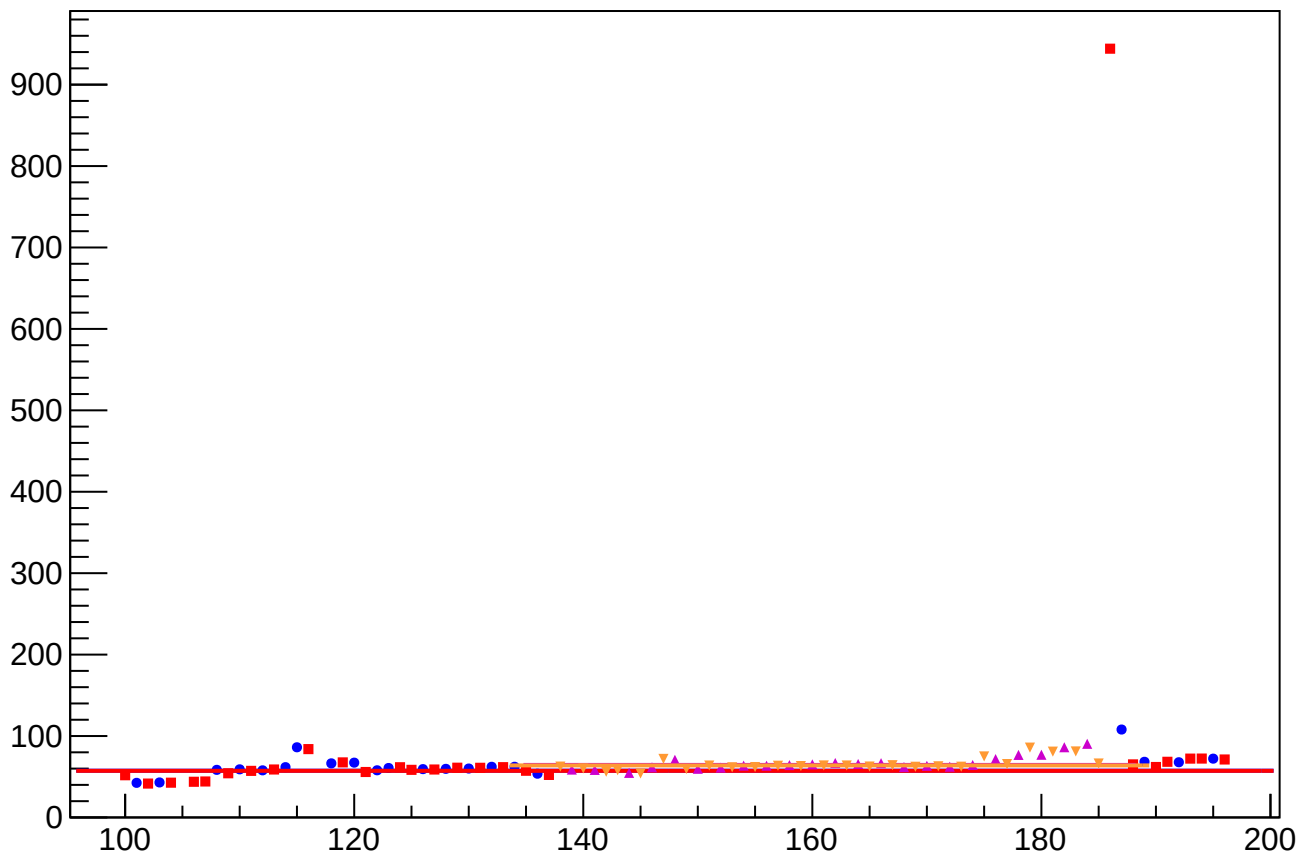
Right: 61.446 $\pm$ 13.121 χ^2 /NDF: 44.8/46

In: 30.335 $\pm$ 12.164 χ^2 /NDF:45.8/43

Out: 41.926 $\pm$ 11.426 χ^2 /NDF:57.0/50

All: 36.493 $\pm$ 8.328 χ^2 /NDF: 103.2/94

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 57.436 $\pm$ 0.014 χ^2 /NDF: 551491.0/20

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 57.265 $\pm$ 0.013 χ^2 /NDF: 1366302.9/25

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

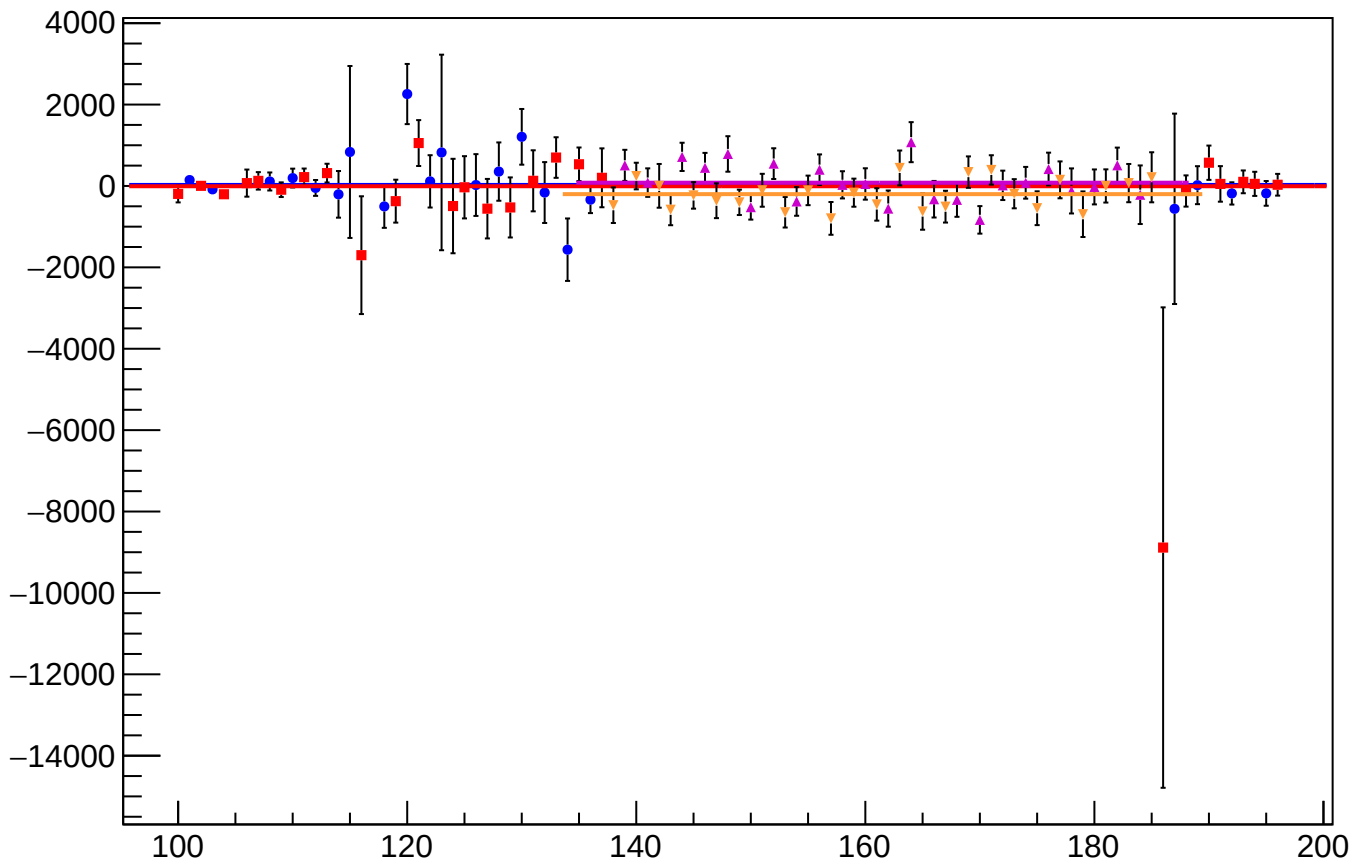
Right: 57.342 $\pm$ 0.009 χ^2 /NDF: 1917878.0/46

In: 61.776 $\pm$ 0.009 χ^2 /NDF: 1082442.8/43

Out: 61.143 $\pm$ 0.008 χ^2 /NDF: 1926710.2/50

All: 61.440 $\pm$ 0.006 χ^2 /NDF: 3012033.0/94

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected

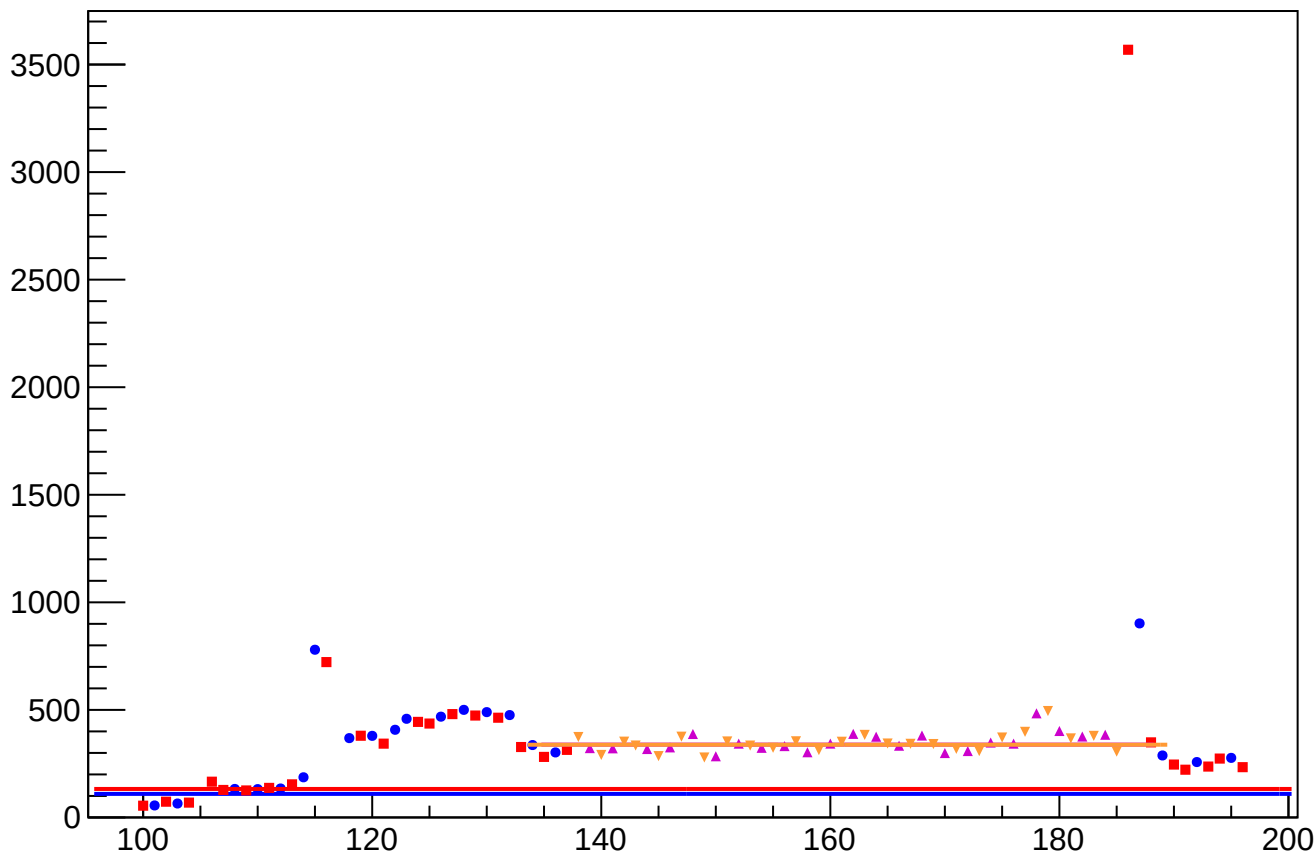


Right In: 25.258 ± 49.683 $\chi^2/\text{NDF}: 25.0/20$
 Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$
 Right Out: -7.020 ± 49.508 $\chi^2/\text{NDF}: 23.3/25$
 Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$
 Right: 9.062 ± 35.069 $\chi^2/\text{NDF}: 48.5/46$
 In: 40.011 ± 42.461 $\chi^2/\text{NDF}: 58.7/43$
 Out: -61.201 ± 42.032 $\chi^2/\text{NDF}: 47.3/50$

All: -11.109 ± 29.872 $\chi^2/\text{NDF}: 108.9/94$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 109.549 $\pm$ 0.035 χ^2 /NDF: 7636299.9/20

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 132.484 $\pm$ 0.035 χ^2 /NDF: 7857711.5/25

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

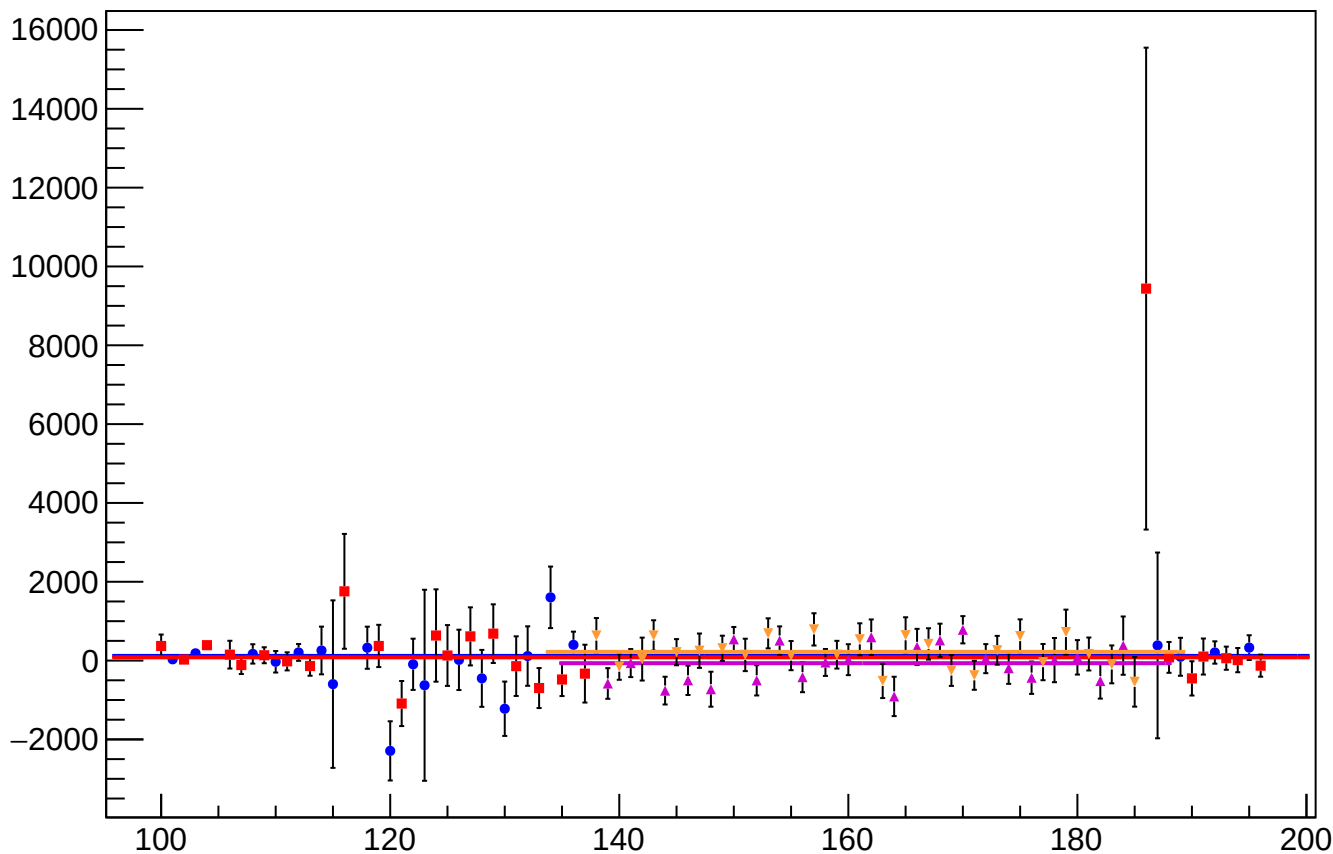
Right: 121.057 $\pm$ 0.025 χ^2 /NDF: 15707867.9/46

In: 171.285 $\pm$ 0.030 χ^2 /NDF: 19529432.8/43

Out: 189.898 $\pm$ 0.030 χ^2 /NDF: 17990719.5/50

All: 180.686 $\pm$ 0.021 χ^2 /NDF: 37714250.9/94

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 118.322 $\pm$ 60.028 χ^2 /NDF: 21.6/20

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 82.749 $\pm$ 55.783 χ^2 /NDF: 25.9/25

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

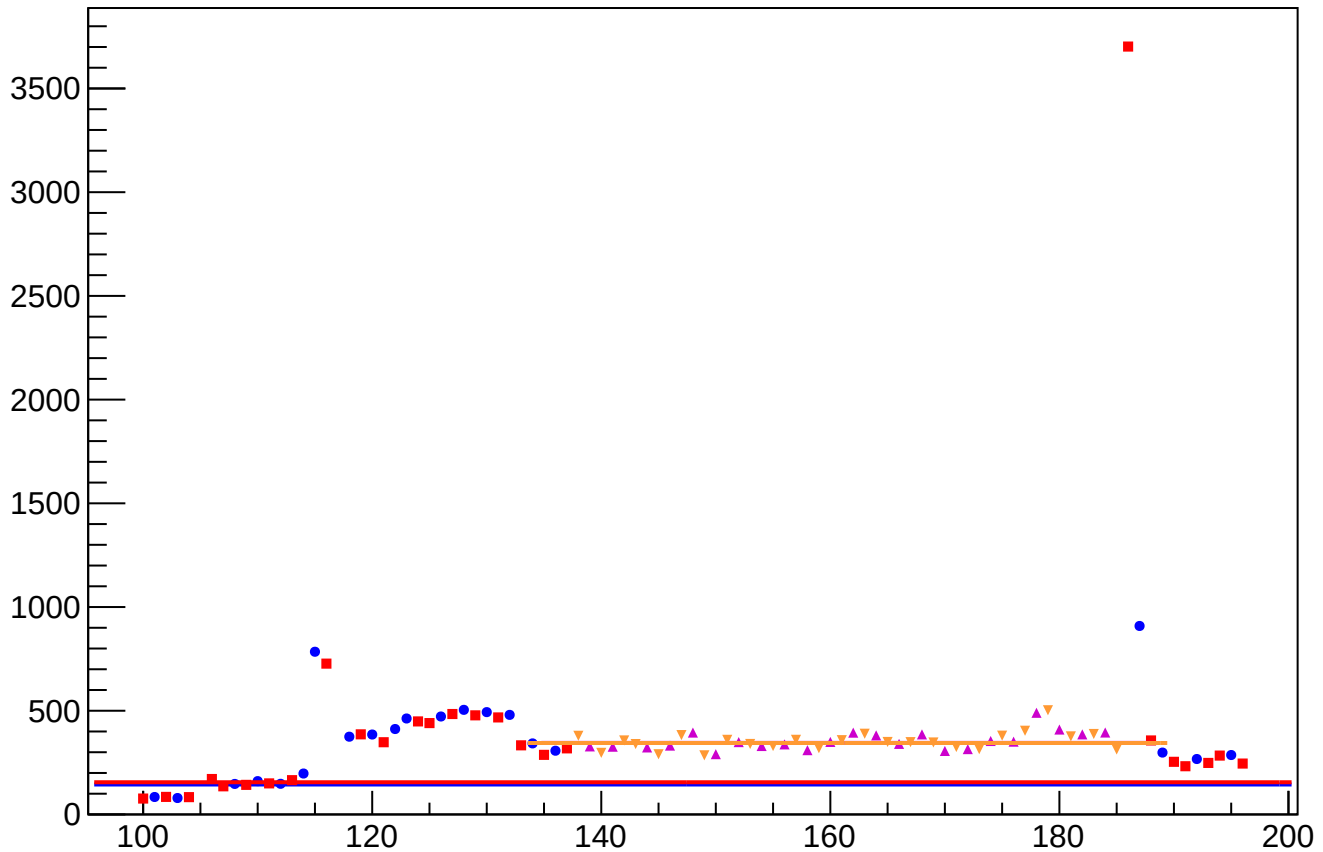
Right: 99.233 $\pm$ 40.863 χ^2 /NDF: 47.7/46

In: 55.507 $\pm$ 48.704 χ^2 /NDF:58.8/43

Out: 127.237 $\pm$ 45.946 χ^2 /NDF:47.5/50

All: 93.461 $\pm$ 33.421 χ^2 /NDF: 107.5/94

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 144.423+/-0.042 χ^2/NDF : 6071207.4/20

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 155.260+/-0.039 χ^2/NDF : 6727497.4/25

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

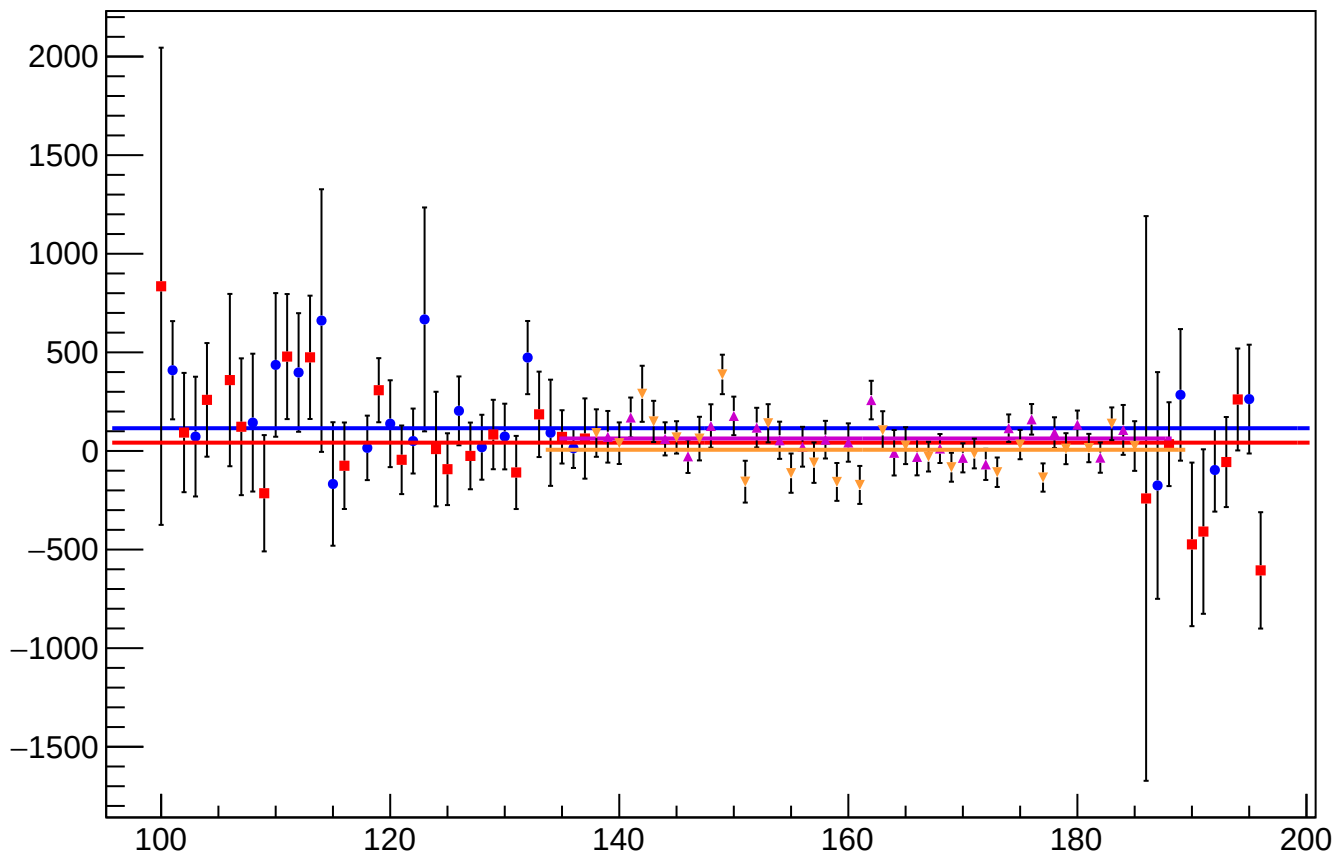
Right: 150.238+/-0.029 χ^2/NDF : 12833684.6/46

In: 212.973+/-0.034 χ^2/NDF : 14131675.7/43

Out: 216.122+/-0.032 χ^2/NDF : 14618643.6/50

All: 214.639+/-0.024 χ^2/NDF : 28754743.2/94

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 115.334 $\pm$ 46.590 χ^2 /NDF: 13.3/20

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 42.104 $\pm$ 45.691 χ^2 /NDF: 19.8/25

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

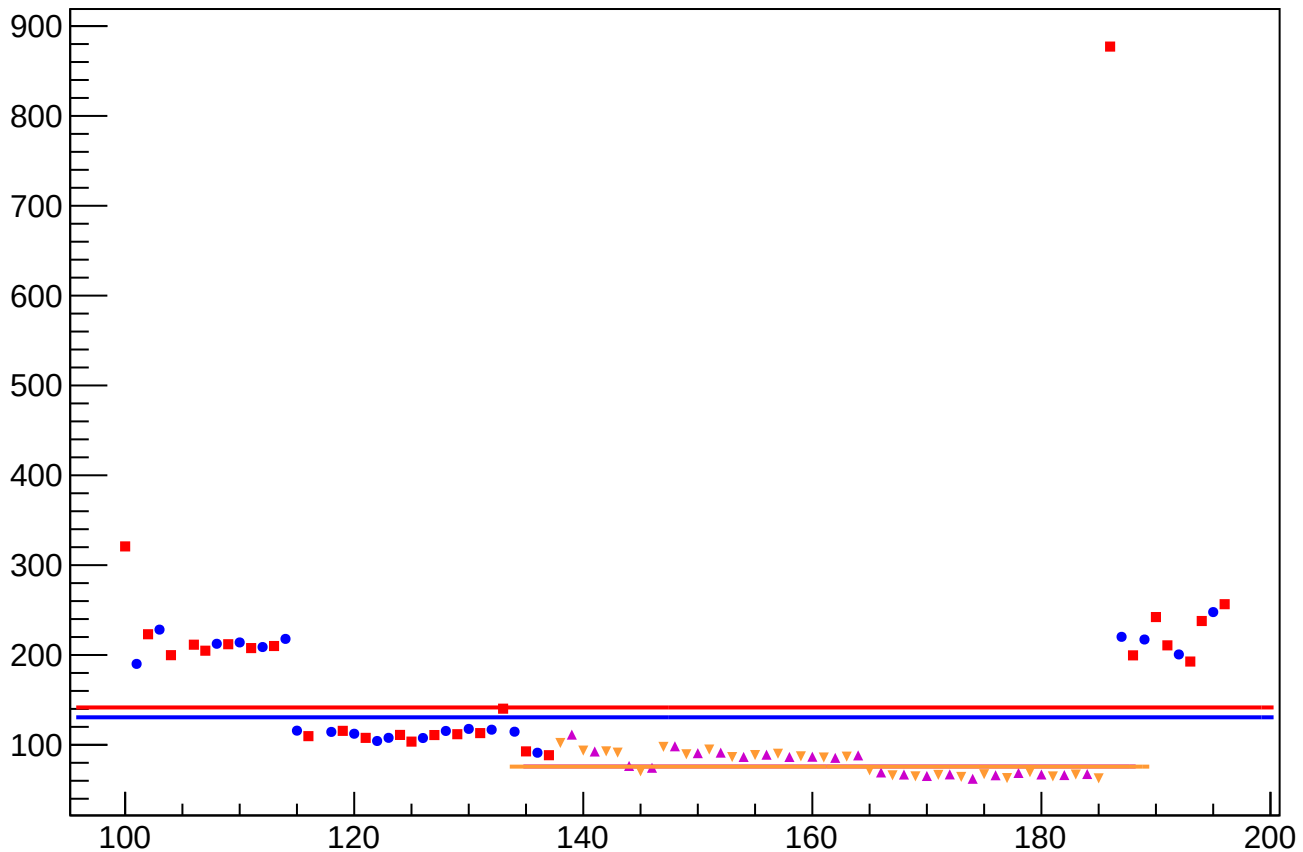
Right: 78.006 $\pm$ 32.622 χ^2 /NDF: 34.3/46

In: 70.333 $\pm$ 17.151 χ^2 /NDF:34.2/43

Out: 10.825 $\pm$ 16.675 χ^2 /NDF:66.3/50

All: 39.741 $\pm$ 11.956 χ^2 /NDF: 106.7/94

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 130.642 $\pm$ 0.033 χ^2 /NDF: 1954572.6/20

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 141.610 $\pm$ 0.032 χ^2 /NDF: 3062692.4/25

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

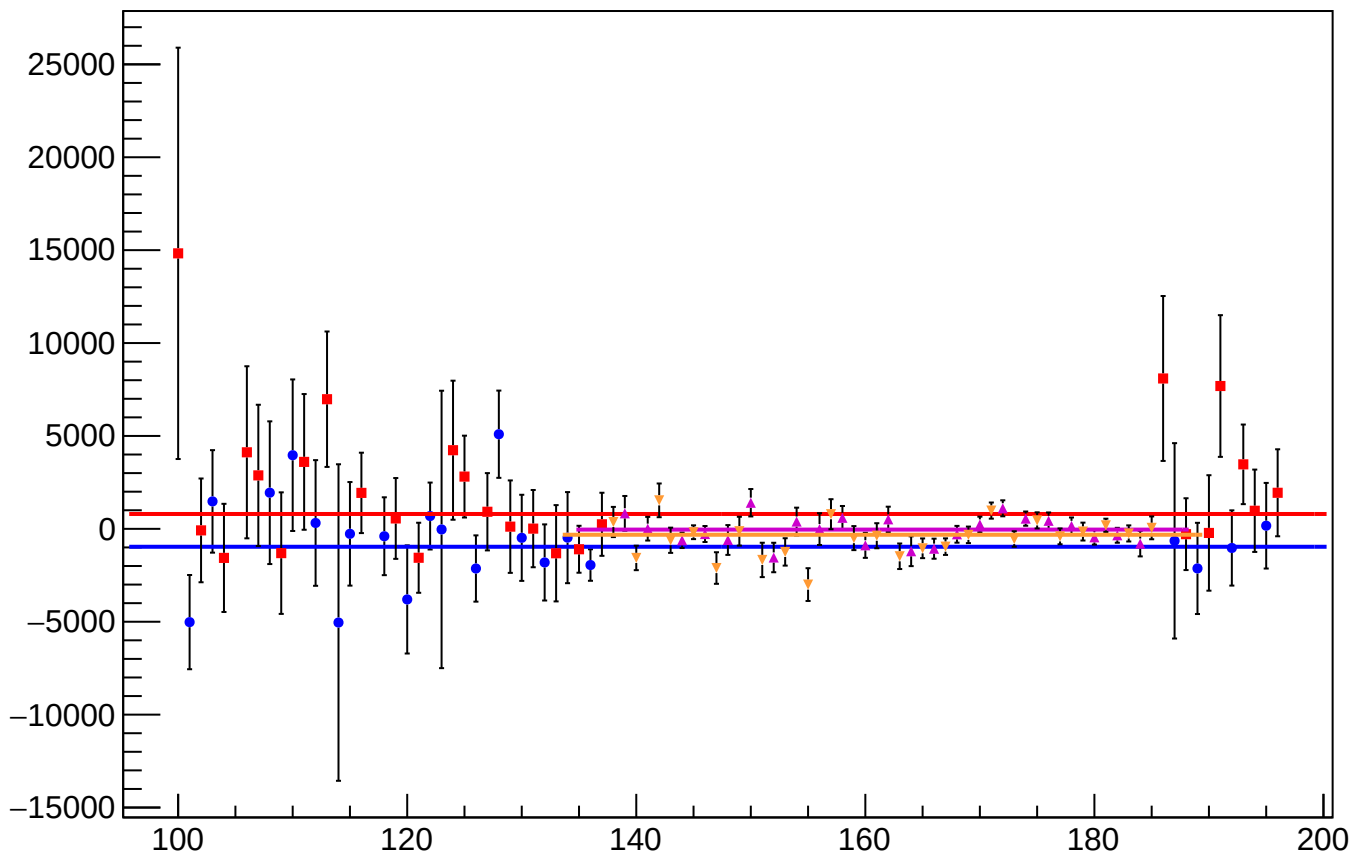
Right: 136.233 $\pm$ 0.023 χ^2 /NDF: 5073770.0/46

In: 83.327 $\pm$ 0.012 χ^2 /NDF:5172037.4/43

Out: 84.515 $\pm$ 0.012 χ^2 /NDF:7603304.6/50

All: 83.938 $\pm$ 0.008 χ^2 /NDF: 12780279.2/94

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -964.561 ± 475.213 $\chi^2/\text{NDF}: 16.8/20$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 799.706 ± 474.599 $\chi^2/\text{NDF}: 22.0/25$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

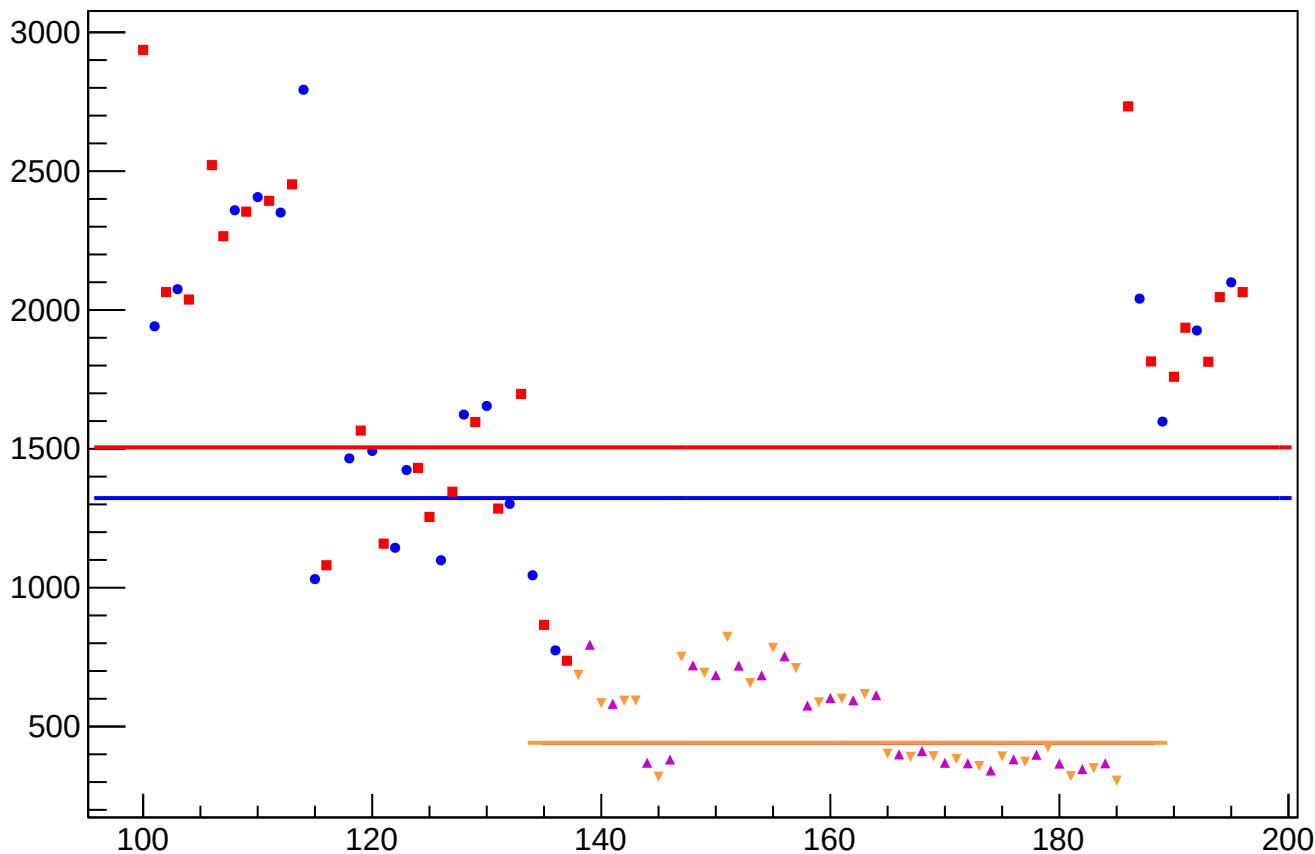
Right: -81.288 ± 335.809 $\chi^2/\text{NDF}: 45.8/46$

In: -87.673 ± 107.400 $\chi^2/\text{NDF}: 55.2/43$

Out: -263.019 ± 105.320 $\chi^2/\text{NDF}: 77.3/50$

All: -177.060 ± 75.197 $\chi^2/\text{NDF}: 133.8/94$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1322.691 $\pm$ 0.336 χ^2 /NDF: 2292331.3/20

Left Out: 441.685 $\pm$ 0.076 χ^2 /NDF:3169140.9/24

Right Out: 1505.378 $\pm$ 0.336 χ^2 /NDF: 2405763.9/25

Left In: 441.009 $\pm$ 0.078 χ^2 /NDF:2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2 /NDF: 5766197.3/47

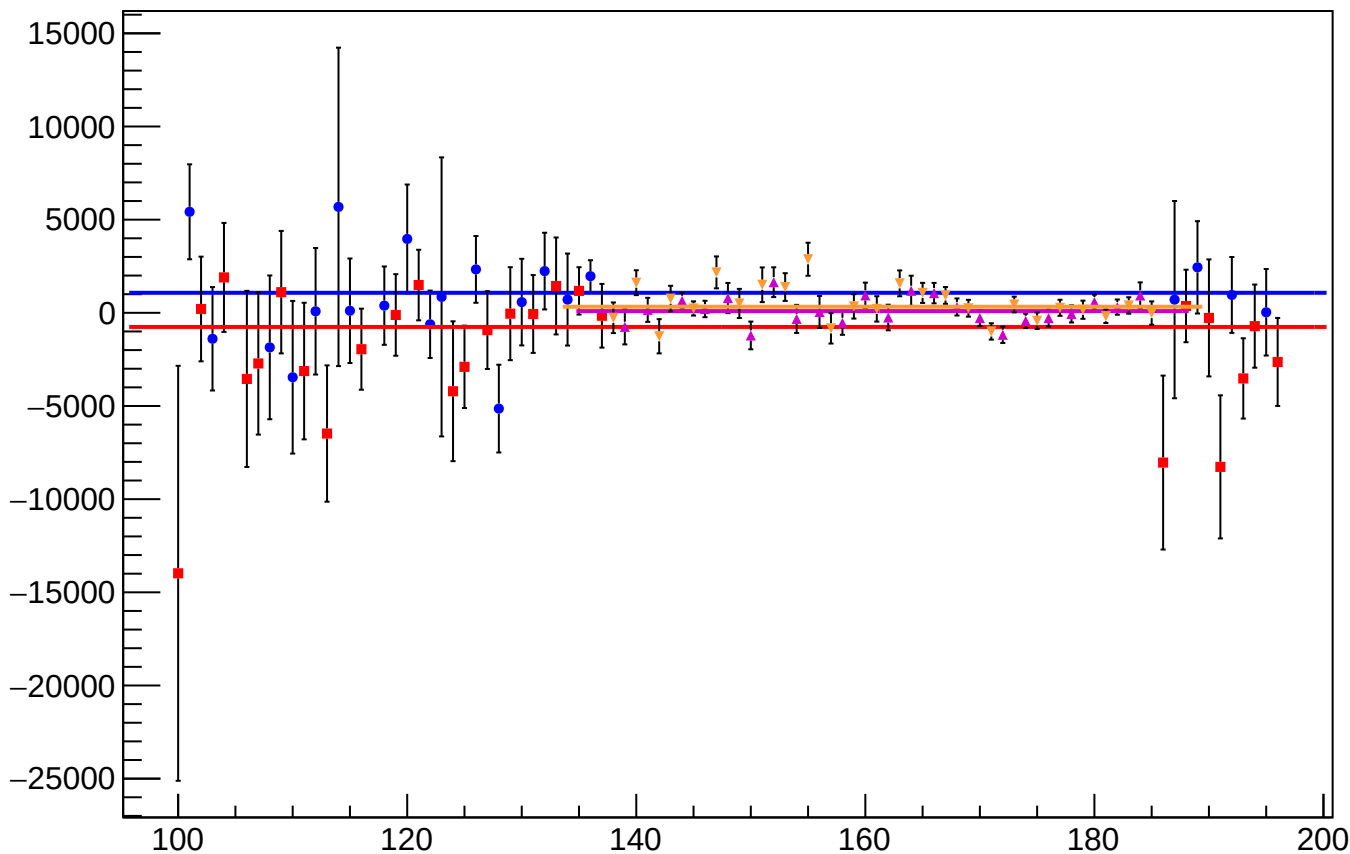
Right: 1414.153 $\pm$ 0.237 χ^2 /NDF: 4846073.5/46

In: 486.043 $\pm$ 0.076 χ^2 /NDF:11422291.9/43

Out: 494.067 $\pm$ 0.074 χ^2 /NDF:15126523.7/50

All: 490.133 $\pm$ 0.053 χ^2 /NDF: 26554507.1/94

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1075.451 $\pm$ 478.035 χ^2/NDF : 17.4/20

Left Out: 328.599 $\pm$ 109.668 χ^2/NDF : 47.7/24

Right Out: -756.352 $\pm$ 477.537 χ^2/NDF : 22.0/25

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

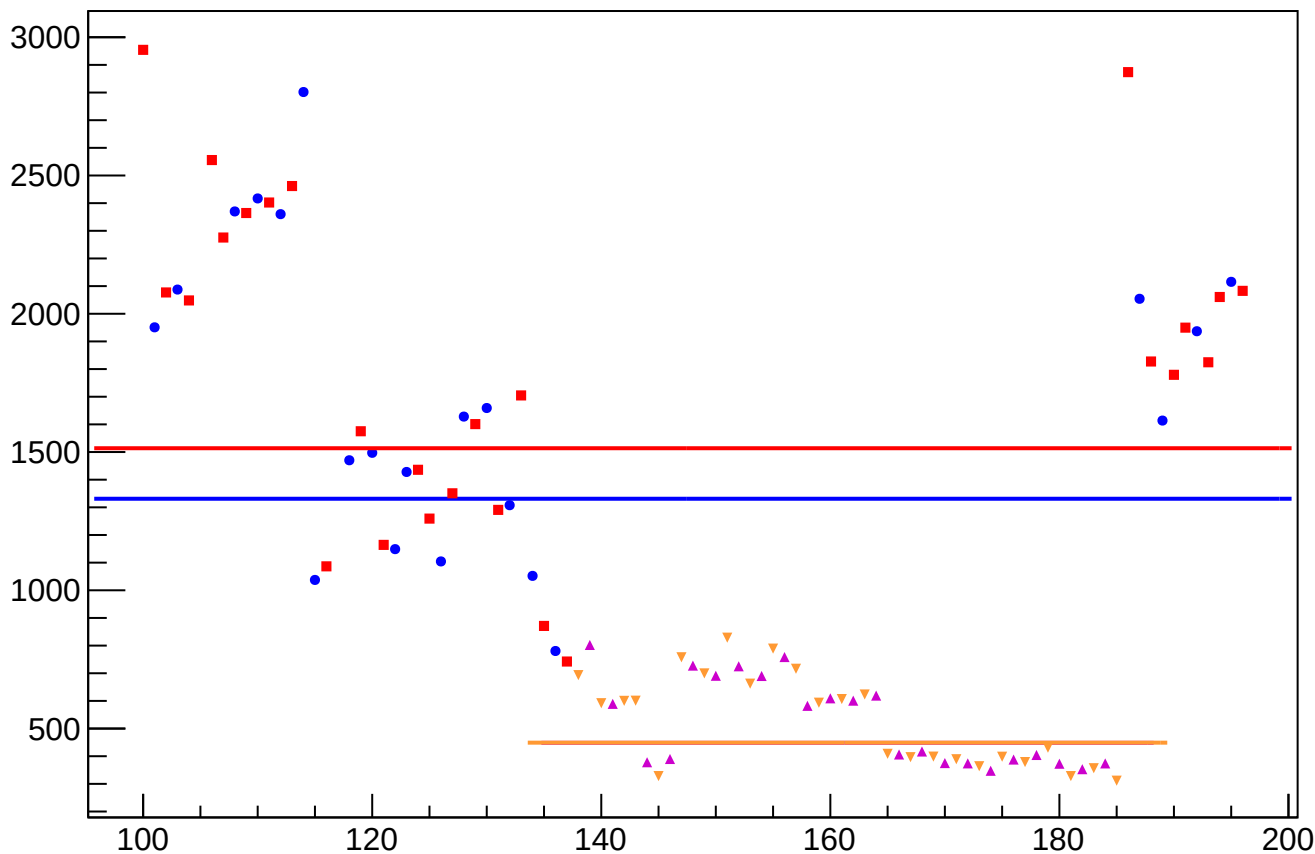
Right: 158.594 $\pm$ 337.846 χ^2/NDF : 46.7/46

In: 144.383 $\pm$ 109.010 χ^2/NDF : 54.8/43

Out: 274.244 $\pm$ 106.886 χ^2/NDF : 74.6/50

All: 210.591 $\pm$ 76.320 χ^2/NDF : 130.1/94

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1331.047+/-0.338 χ^2/NDF : 2281124.3/20

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1513.734+/-0.338 χ^2/NDF : 2424381.7/25

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

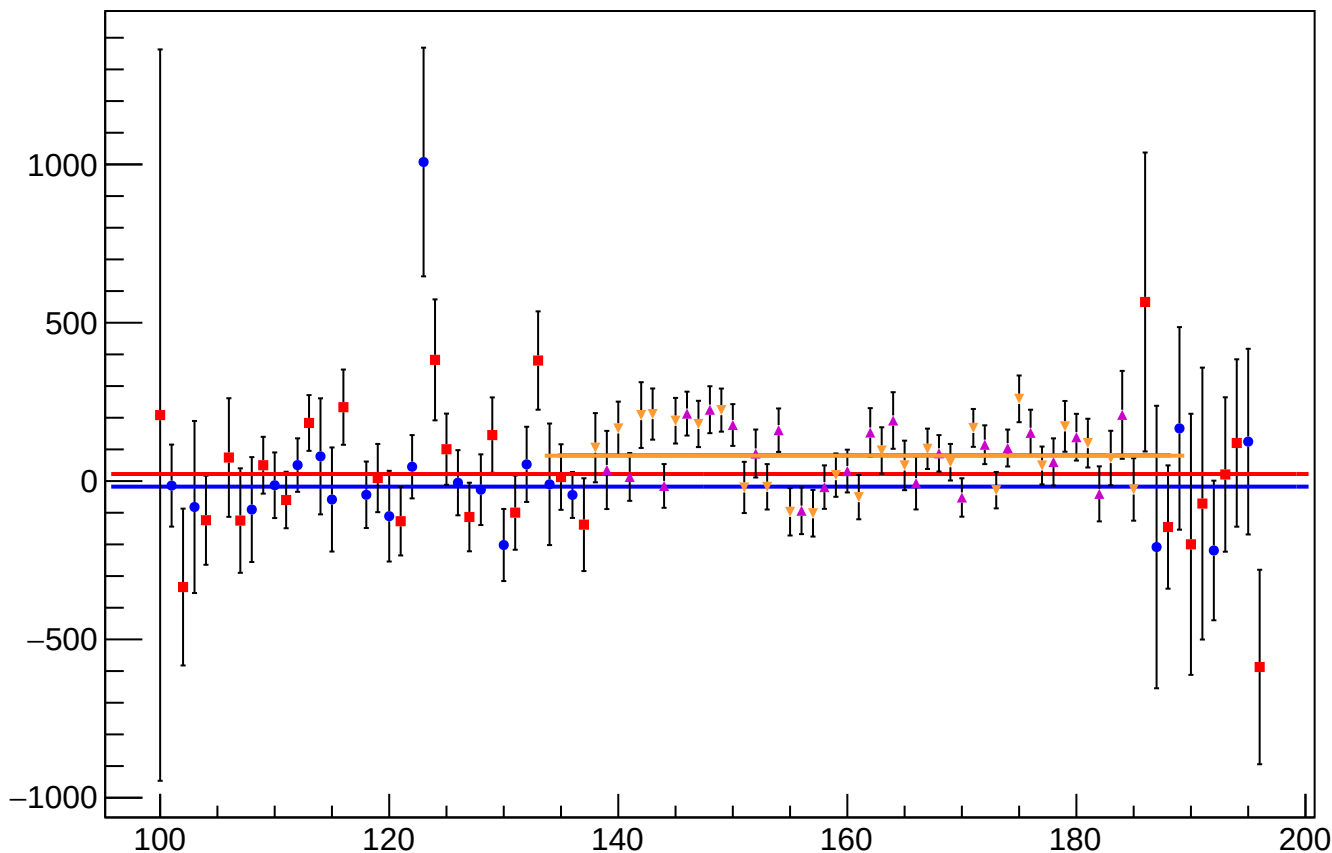
Right: 1422.486+/-0.239 χ^2/NDF : 4851707.3/46

In: 494.210+/-0.077 χ^2/NDF : 11283725.0/43

Out: 502.357+/-0.076 χ^2/NDF : 14959040.3/50

All: 498.364+/-0.054 χ^2/NDF : 26248460.9/94

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -17.585 ± 28.355 $\chi^2/\text{NDF}: 14.9/20$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 22.295 ± 27.167 $\chi^2/\text{NDF}: 34.2/25$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

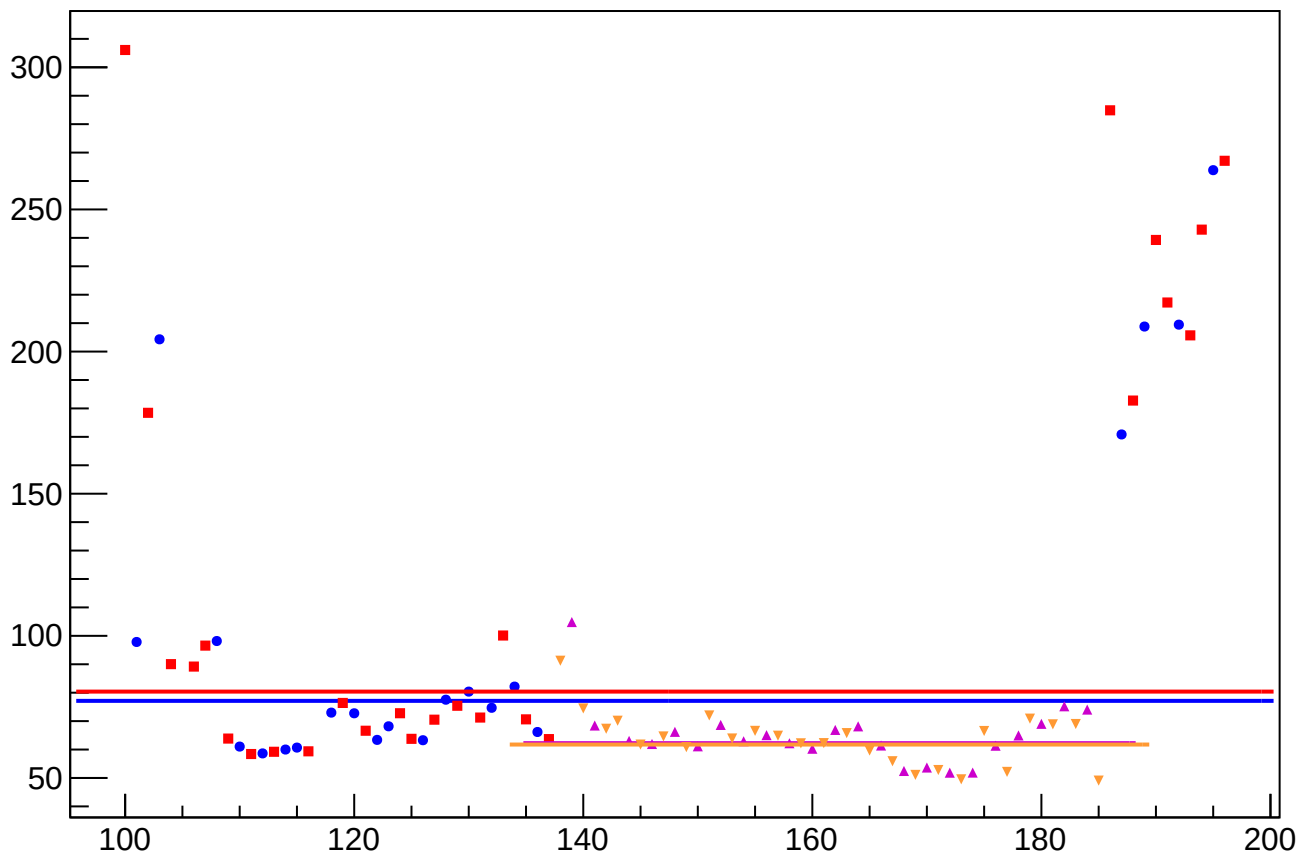
Right: 3.208 ± 19.617 $\chi^2/\text{NDF}: 50.1/46$

In: 59.328 ± 13.332 $\chi^2/\text{NDF}: 59.6/43$

Out: 67.212 ± 12.855 $\chi^2/\text{NDF}: 86.3/50$

All: 63.413 ± 9.254 $\chi^2/\text{NDF}: 146.1/94$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 77.126 $\pm$ 0.020 χ^2/NDF : 2791786.8/20

Left Out: 61.761 $\pm$ 0.010 χ^2/NDF : 645535.0/24

Right Out: 80.387 $\pm$ 0.019 χ^2/NDF : 4433706.6/25

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

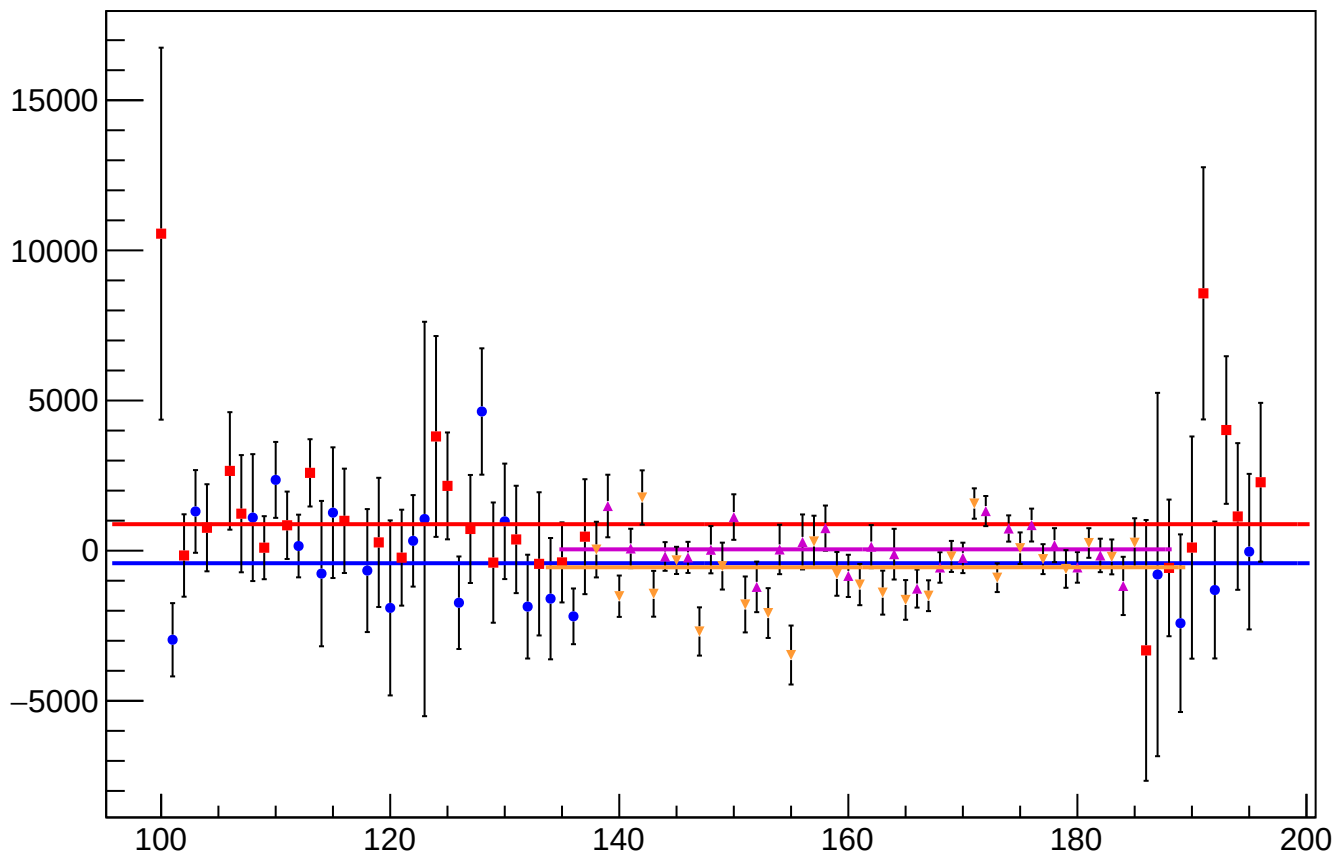
Right: 78.826 $\pm$ 0.014 χ^2/NDF : 7239280.1/46

In: 65.539 $\pm$ 0.009 χ^2/NDF : 3811688.8/43

Out: 65.931 $\pm$ 0.009 χ^2/NDF : 5808815.9/50

All: 65.742 $\pm$ 0.007 χ^2/NDF : 9621404.5/94

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -417.521 ± 370.085 $\chi^2/\text{NDF}: 25.1/20$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 882.201 ± 350.601 $\chi^2/\text{NDF}: 17.0/25$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

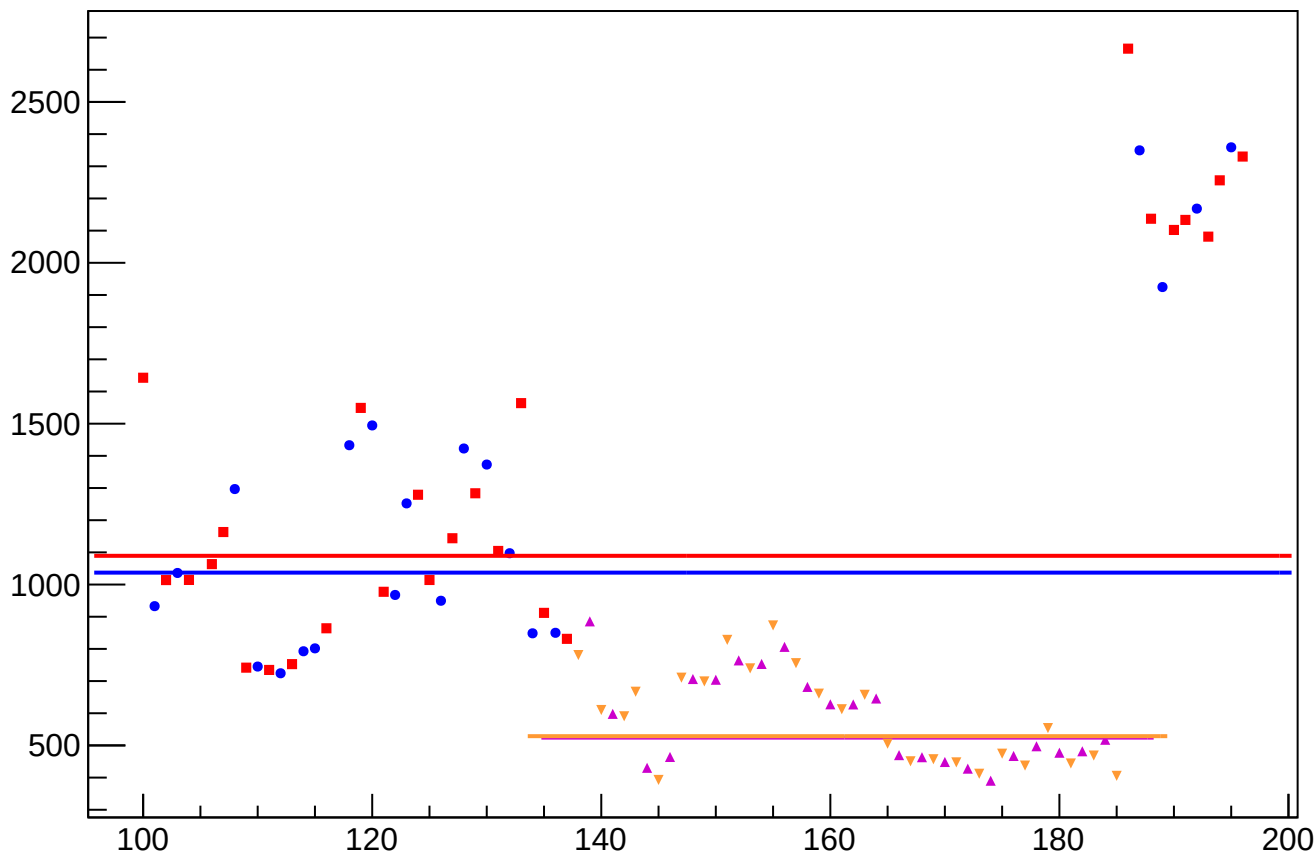
Right: 267.452 ± 254.522 $\chi^2/\text{NDF}: 48.6/46$

In: -5.550 ± 121.892 $\chi^2/\text{NDF}: 56.0/43$

Out: -386.137 ± 119.392 $\chi^2/\text{NDF}: 97.1/50$

All: -199.786 ± 85.293 $\chi^2/\text{NDF}: 158.1/94$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1037.053+/-0.262 χ^2/NDF : 2029479.7/20

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1089.311+/-0.248 χ^2/NDF : 3131260.8/25

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

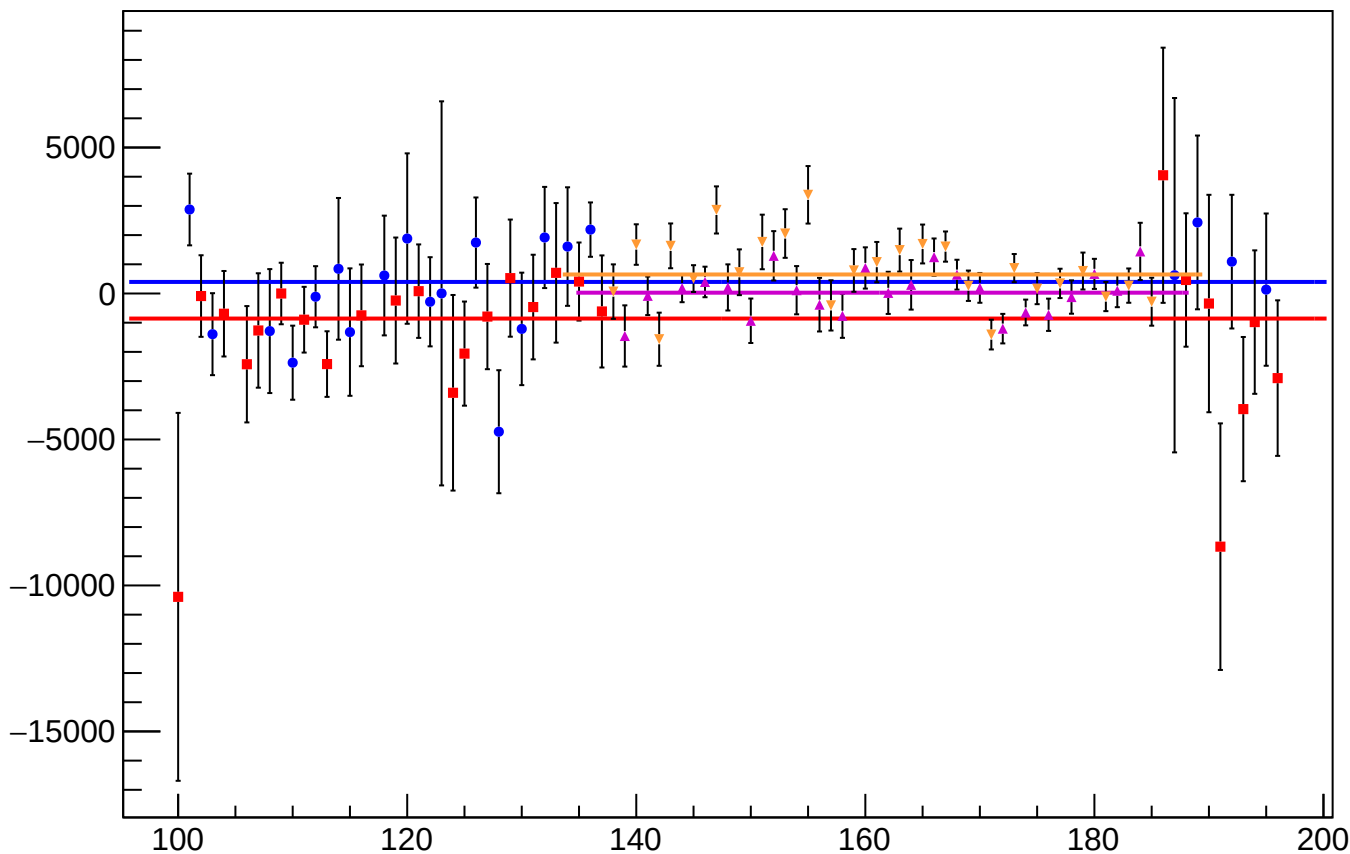
Right: 1064.594+/-0.180 χ^2/NDF : 5181756.8/46

In: 579.895+/-0.086 χ^2/NDF : 7168916.1/43

Out: 593.742+/-0.084 χ^2/NDF : 9634990.5/50

All: 586.962+/-0.060 χ^2/NDF : 16817080.3/94

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 396.029 ± 371.793 $\chi^2/\text{NDF}: 25.2/20$

Left Out: 651.560 ± 127.961 $\chi^2/\text{NDF}: 61.1/24$

Right Out: -858.436 ± 352.399 $\chi^2/\text{NDF}: 16.4/25$

Left In: 27.483 ± 130.127 $\chi^2/\text{NDF}: 28.5/22$

Left: 344.758 ± 91.238 $\chi^2/\text{NDF}: 101.2/47$

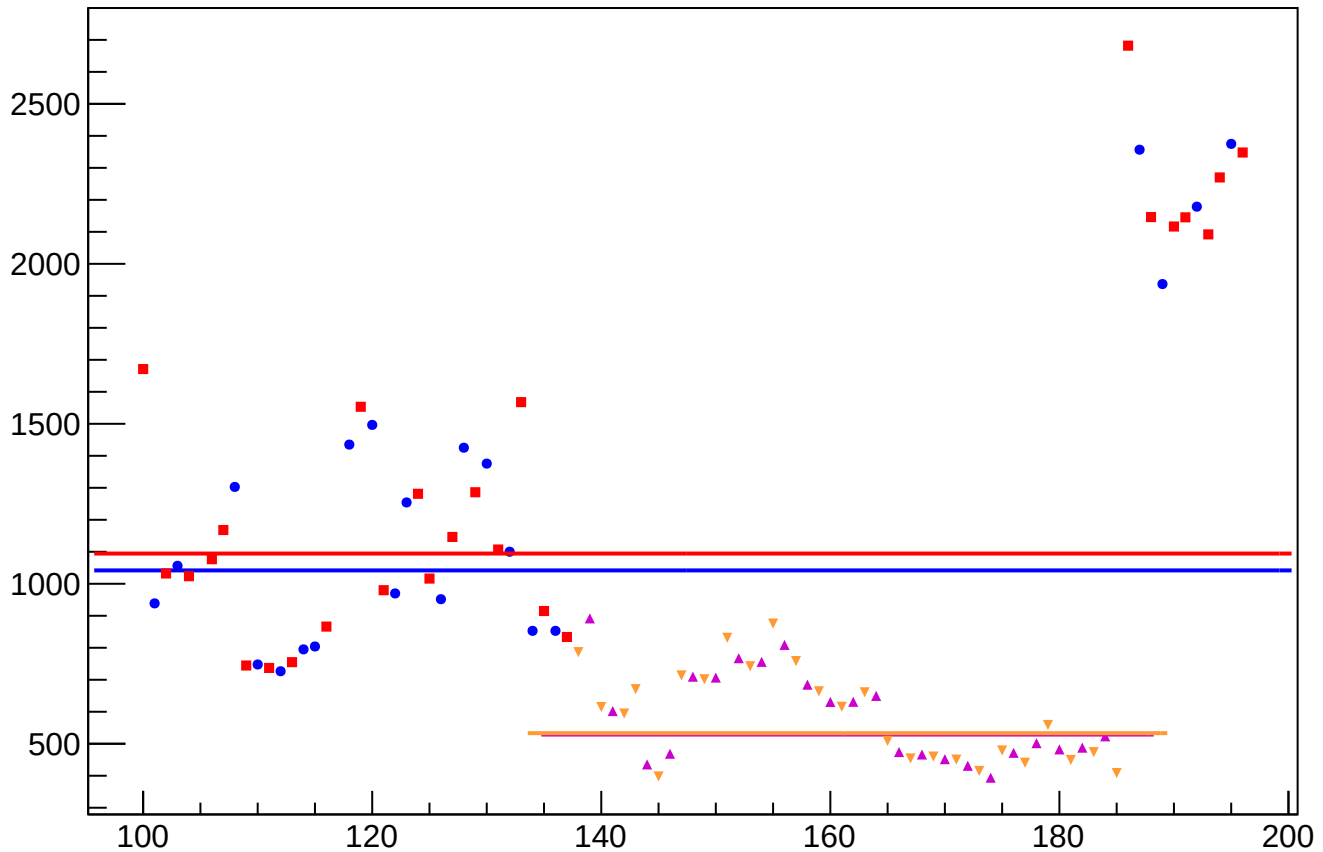
Right: -264.773 ± 255.765 $\chi^2/\text{NDF}: 47.6/46$

In: 67.703 ± 122.821 $\chi^2/\text{NDF}: 54.6/43$

Out: 475.657 ± 120.277 $\chi^2/\text{NDF}: 93.7/50$

All: 275.949 ± 85.934 $\chi^2/\text{NDF}: 153.9/94$

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1041.763 ± 0.263 $\chi^2/\text{NDF}: 2031987.7/20$

Left Out: 533.060 ± 0.090 $\chi^2/\text{NDF}: 1951536.4/24$

Right Out: 1094.485 ± 0.249 $\chi^2/\text{NDF}: 3138766.3/25$

Left In: 528.694 ± 0.092 $\chi^2/\text{NDF}: 1688511.2/22$

Left: 530.914 ± 0.065 $\chi^2/\text{NDF}: 3641192.3/47$

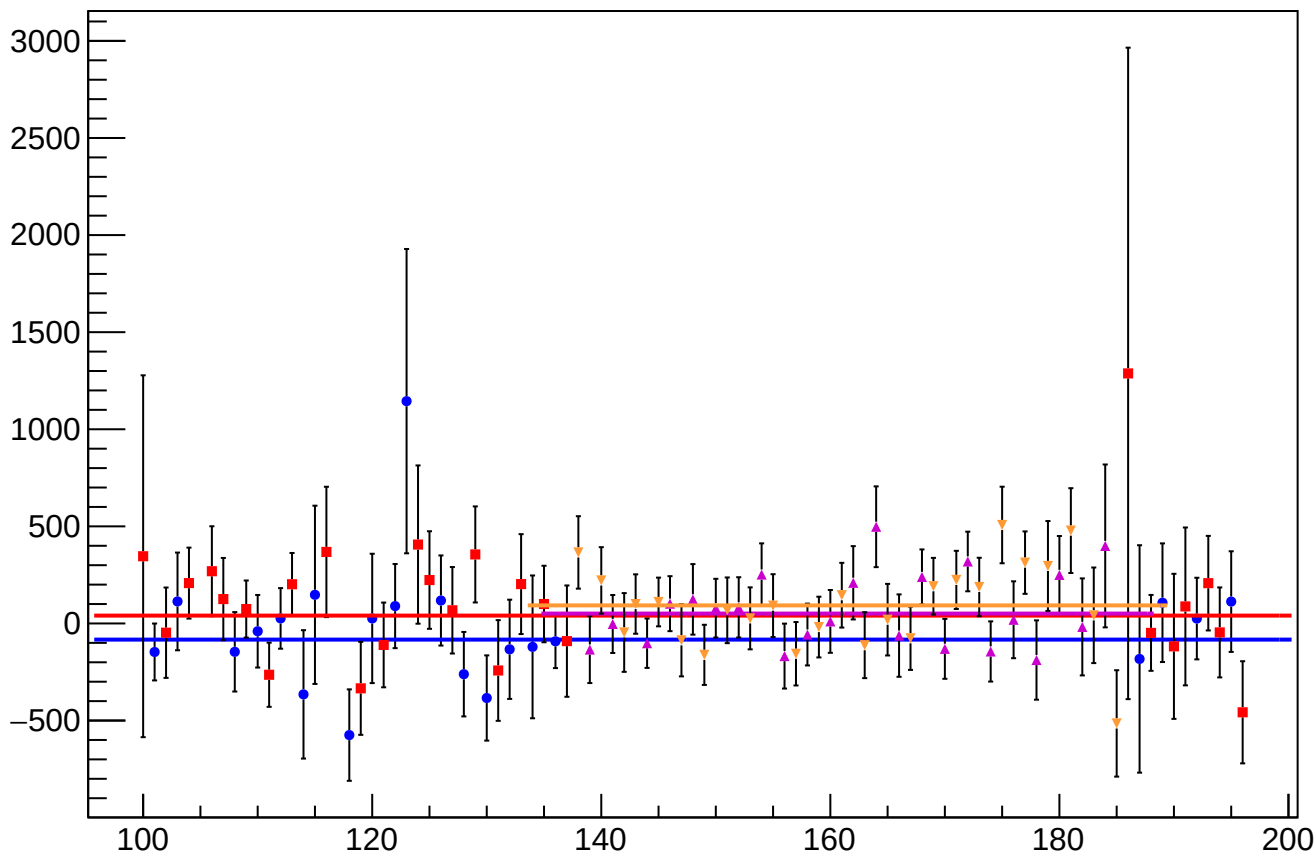
Right: 1069.535 ± 0.181 $\chi^2/\text{NDF}: 5191939.5/46$

In: 584.685 ± 0.087 $\chi^2/\text{NDF}: 7113574.6/43$

Out: 598.462 ± 0.085 $\chi^2/\text{NDF}: 9575218.2/50$

All: 591.718 ± 0.061 $\chi^2/\text{NDF}: 16701637.3/94$

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -83.183 ± 49.576 χ^2/NDF : 14.6/20

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 40.434 ± 45.865 χ^2/NDF : 20.6/25

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

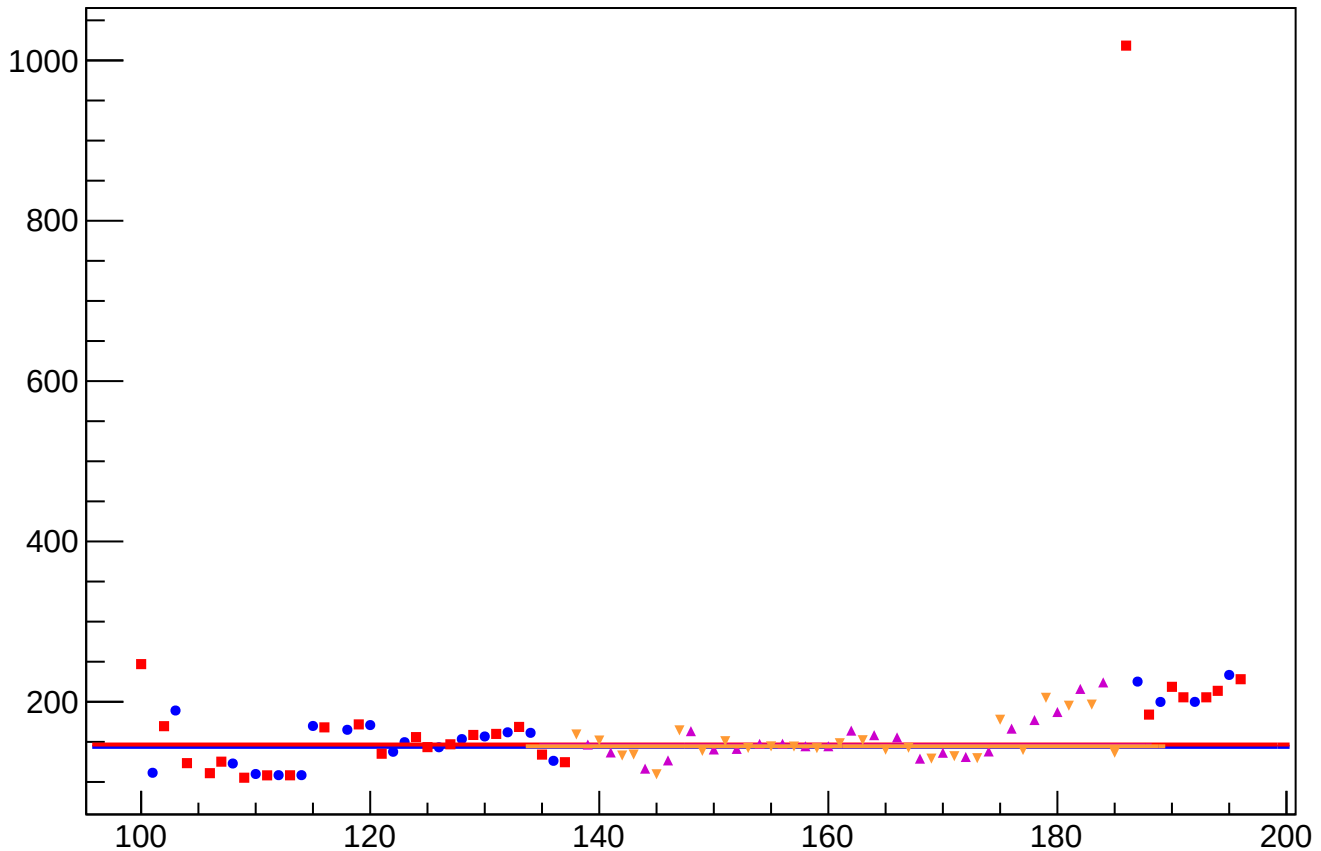
Right: -16.575 ± 33.667 χ^2/NDF : 38.5/46

In: 5.823 ± 28.744 χ^2/NDF : 42.9/43

Out: 74.316 ± 27.341 χ^2/NDF : 50.8/50

All: 41.782 ± 19.811 χ^2/NDF : 96.7/94

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 143.804 $\pm$ 0.035 χ^2 /NDF: 957322.0/20

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 146.705 $\pm$ 0.032 χ^2 /NDF: 1810367.9/25

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

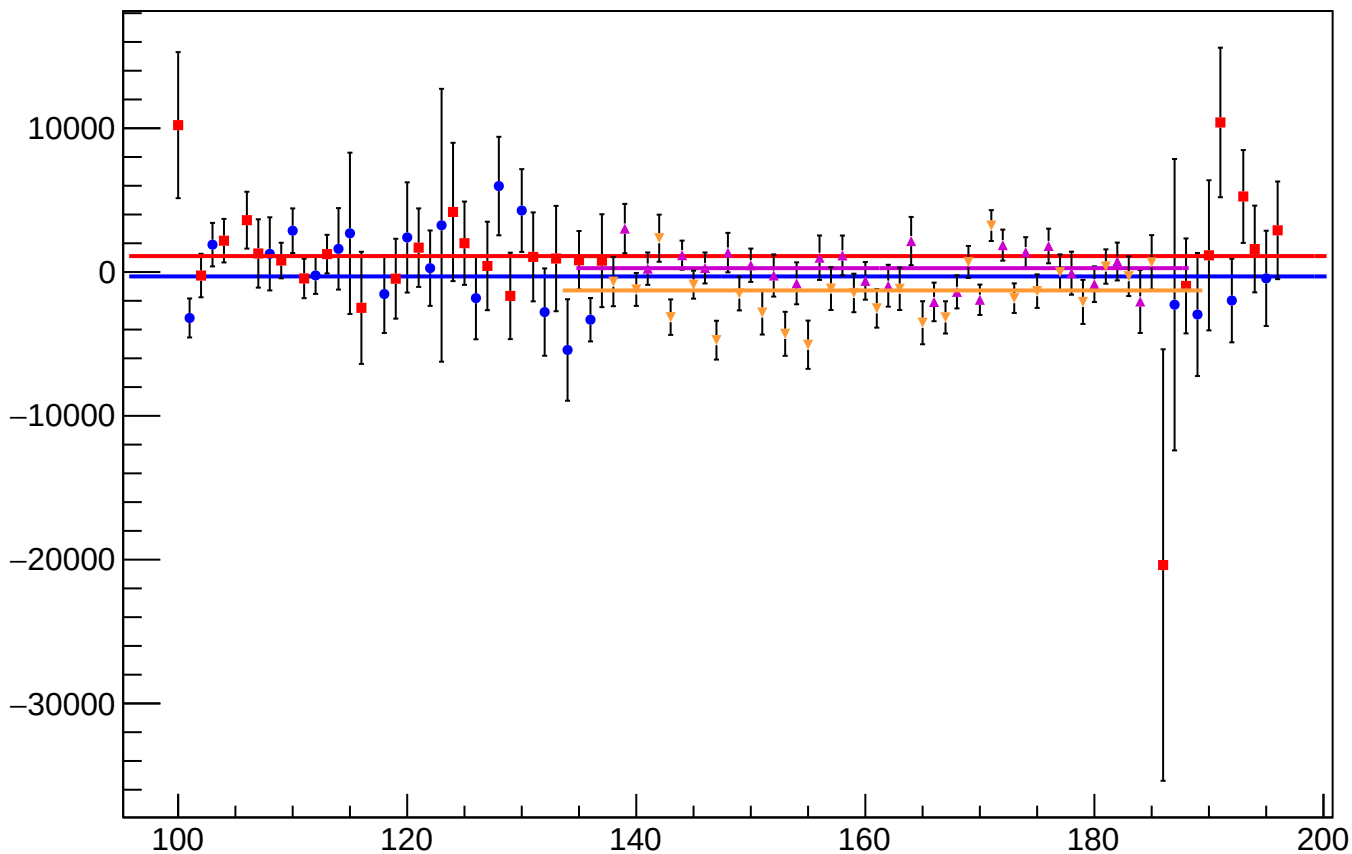
Right: 145.367 $\pm$ 0.024 χ^2 /NDF: 2771379.0/46

In: 144.953 $\pm$ 0.020 χ^2 /NDF: 1602468.4/43

Out: 145.268 $\pm$ 0.019 χ^2 /NDF: 2483904.0/50

All: 145.118 $\pm$ 0.014 χ^2 /NDF: 4086498.2/94

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -304.848 ± 506.147 $\chi^2/\text{NDF}: 26.6/20$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1108.620 ± 457.656 $\chi^2/\text{NDF}: 17.7/25$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

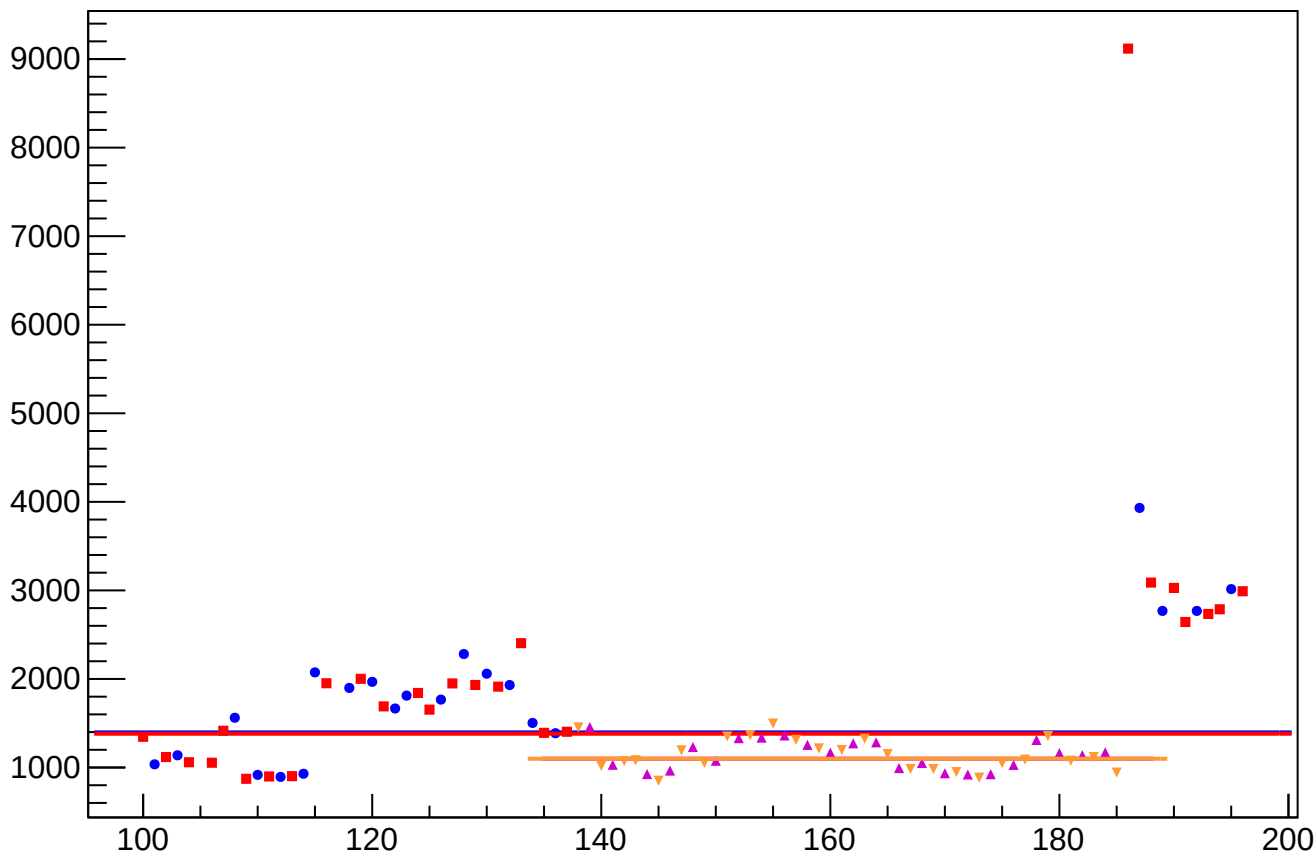
Right: 472.820 ± 339.464 $\chi^2/\text{NDF}: 48.6/46$

In: 145.375 ± 235.634 $\chi^2/\text{NDF}: 51.9/43$

Out: -699.043 ± 225.604 $\chi^2/\text{NDF}: 94.3/50$

All: -295.187 ± 162.957 $\chi^2/\text{NDF}: 152.8/94$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1396.656 $\pm$ 0.358 χ^2 /NDF: 2517068.5/20

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1381.578 $\pm$ 0.324 χ^2 /NDF: 4219860.3/25

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

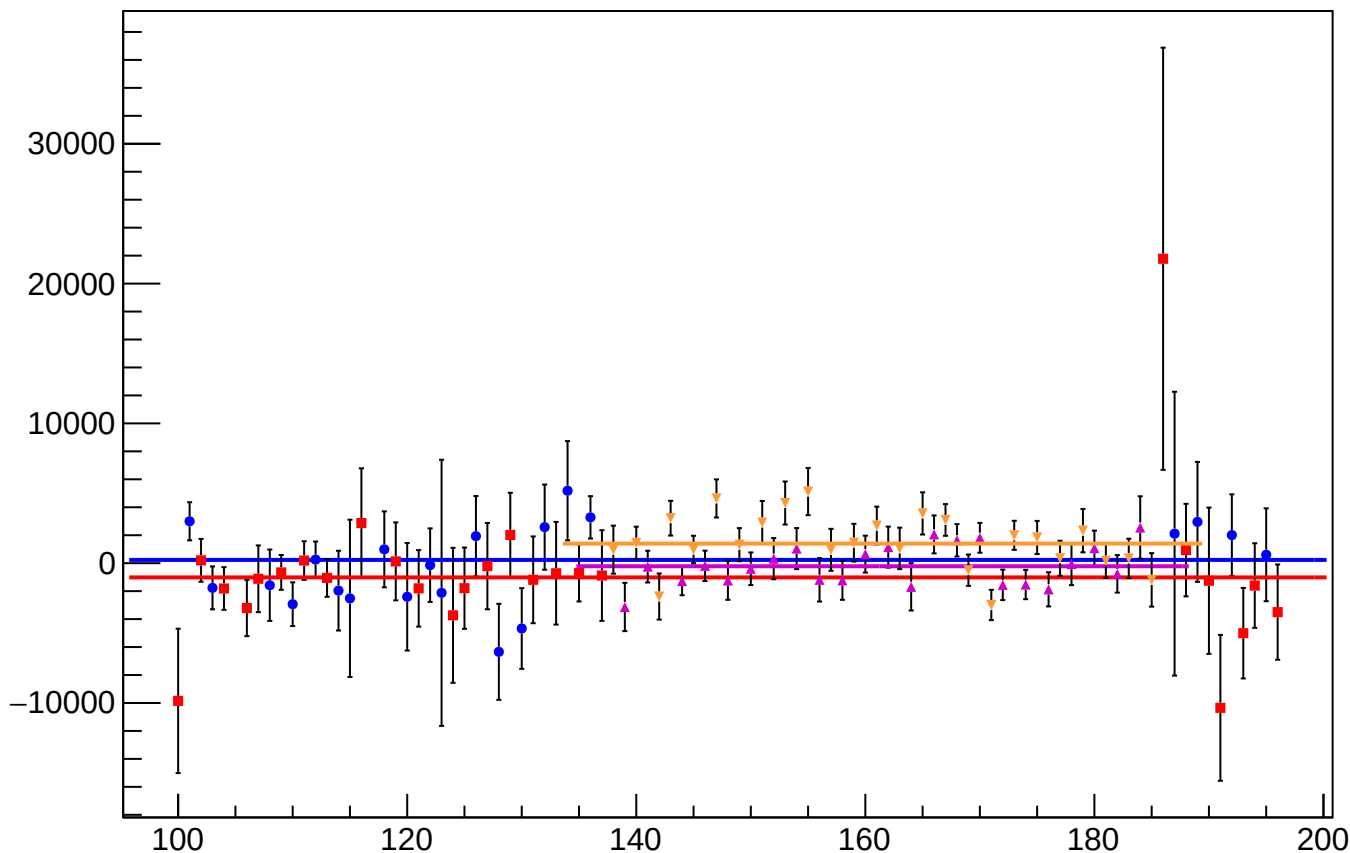
Right: 1388.360 $\pm$ 0.240 χ^2 /NDF: 6737905.3/46

In: 1163.970 $\pm$ 0.167 χ^2 /NDF: 3736610.7/43

Out: 1167.599 $\pm$ 0.160 χ^2 /NDF: 5621755.1/50

All: 1165.863 $\pm$ 0.115 χ^2 /NDF: 9358613.4/94

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 234.119+/-509.311 χ^2/NDF : 26.2/20

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1017.234+/-460.950 χ^2/NDF : 16.5/25

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

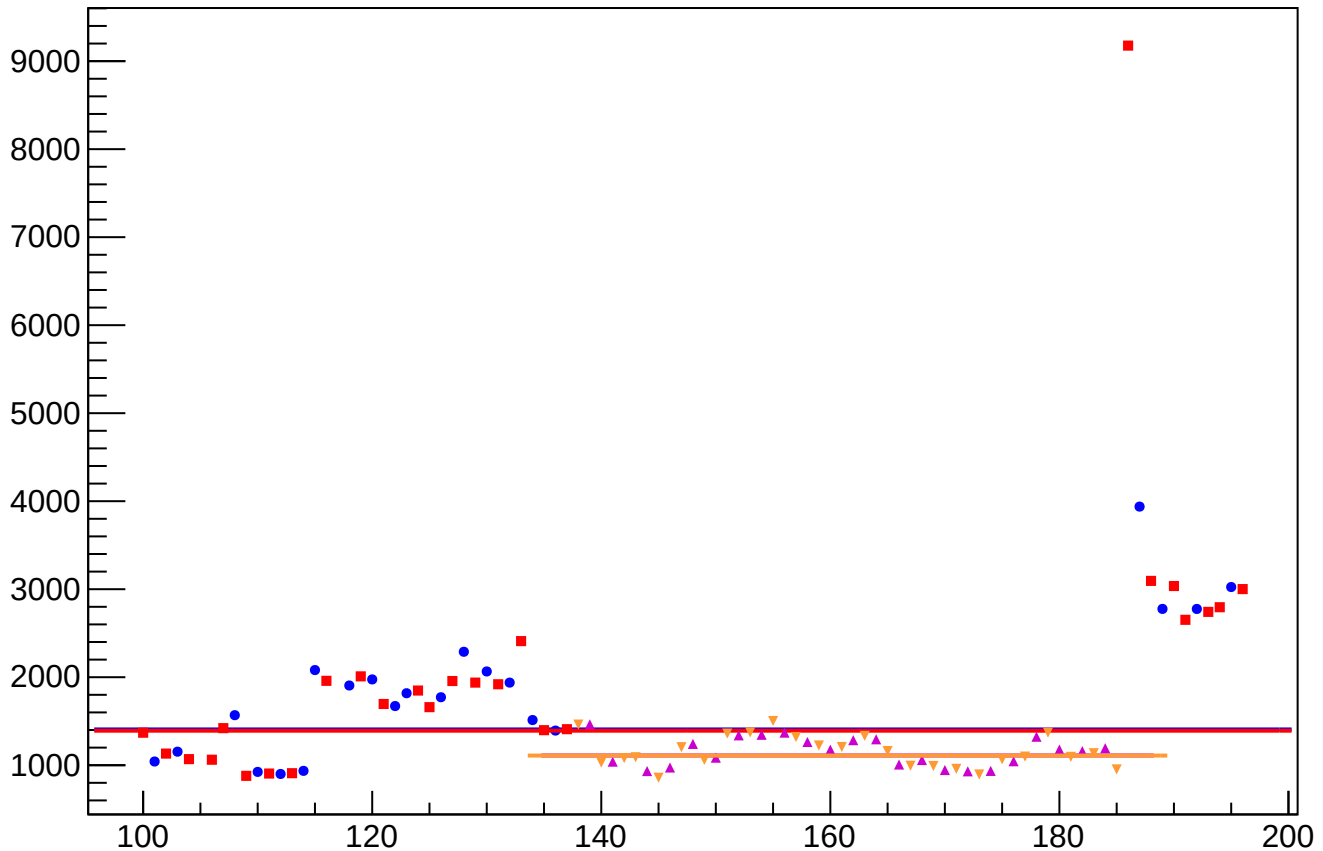
Right: -453.775+/-341.762 χ^2/NDF : 46.0/46

In: -120.561+/-237.759 χ^2/NDF : 51.8/43

Out: 810.769+/-227.648 χ^2/NDF : 89.6/50

All: 365.328+/-164.430 χ^2/NDF : 149.4/94

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1406.474+/-0.360 χ^2/NDF : 2494641.7/20

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1392.455+/-0.326 χ^2/NDF : 4185964.3/25

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

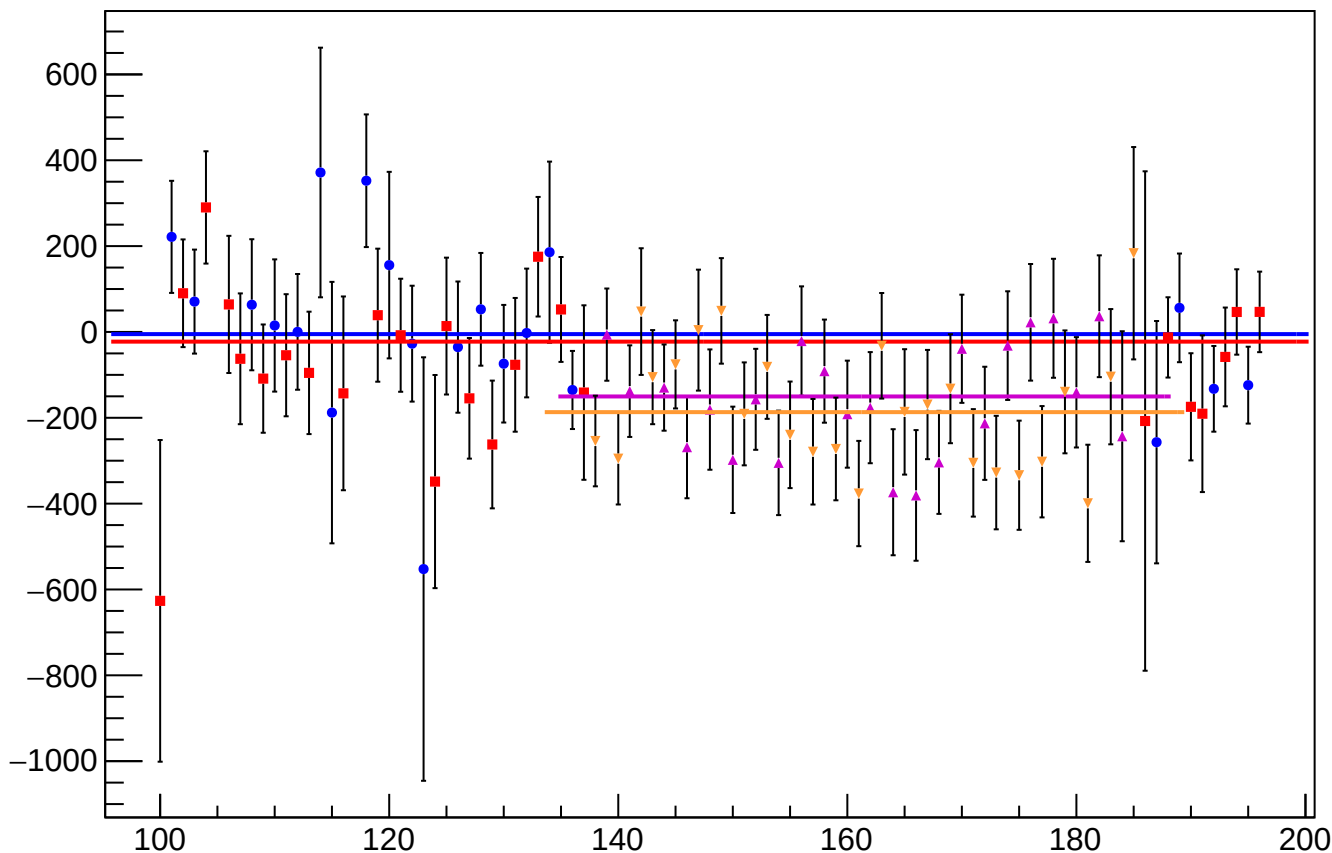
Right: 1398.768+/-0.242 χ^2/NDF : 6681439.0/46

In: 1175.033+/-0.168 χ^2/NDF : 3692647.4/43

Out: 1178.712+/-0.161 χ^2/NDF : 5566904.1/50

All: 1176.952+/-0.116 χ^2/NDF : 9259801.2/94

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -5.054 ± 30.814 χ^2/NDF : 20.6/20

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: -22.576 ± 27.434 χ^2/NDF : 22.4/25

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

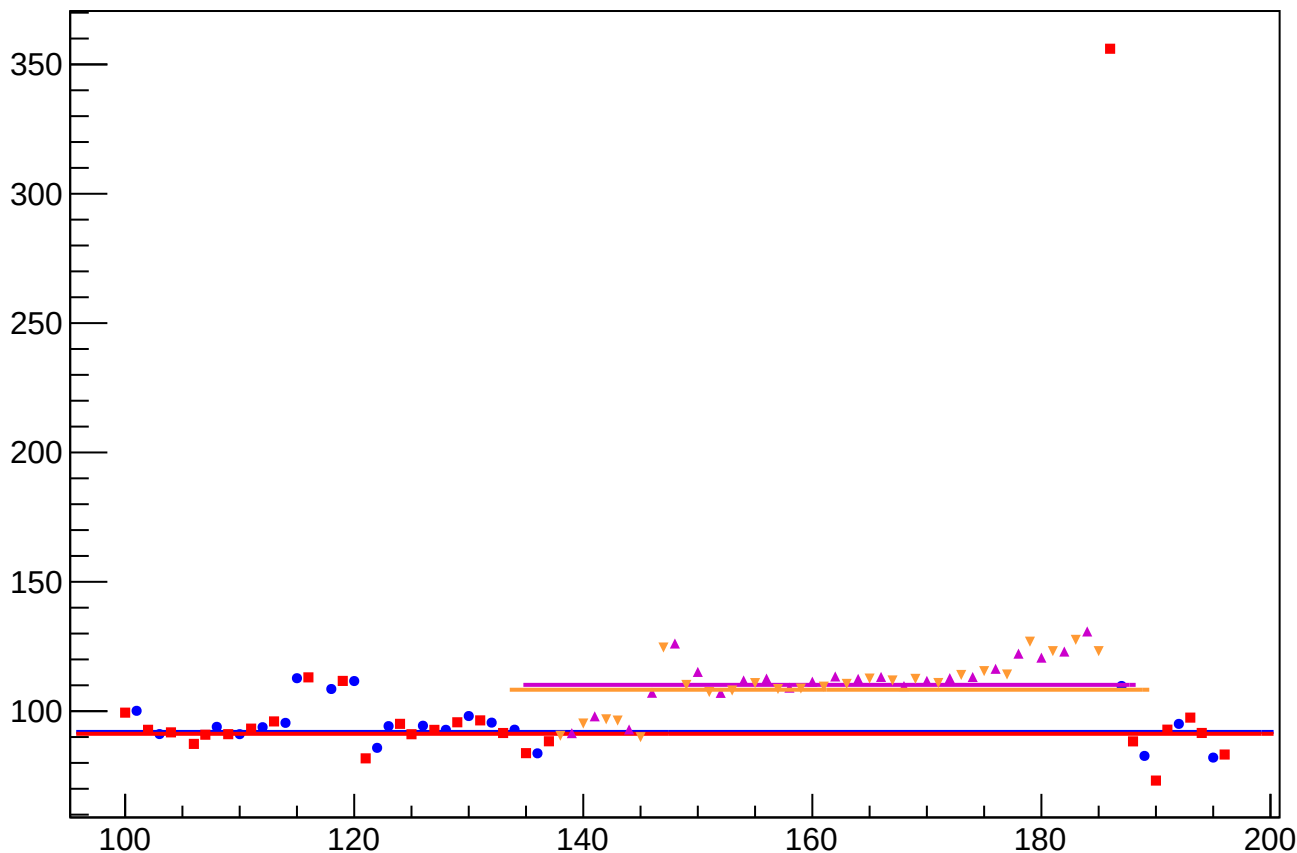
Right: -14.828 ± 20.490 χ^2/NDF : 43.1/46

In: -88.704 ± 20.068 χ^2/NDF : 54.1/43

Out: -111.318 ± 18.602 χ^2/NDF : 68.3/50

All: -100.867 ± 13.642 χ^2/NDF : 123.1/94

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 91.972 $\pm$ 0.022 χ^2 /NDF: 129309.5/20

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 91.251 $\pm$ 0.019 χ^2 /NDF: 560536.8/25

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

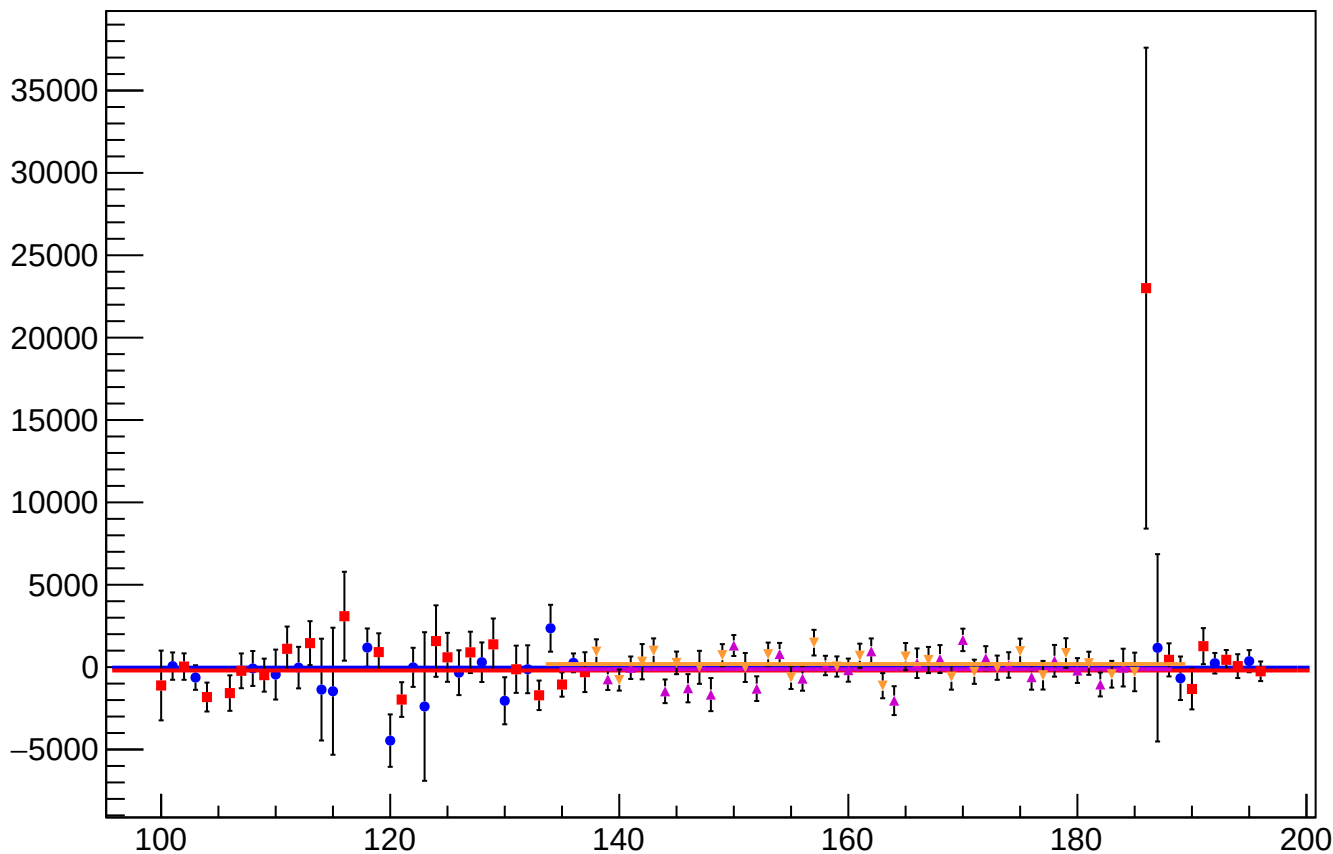
Right: 91.570 $\pm$ 0.014 χ^2 /NDF: 690456.1/46

In: 102.453 $\pm$ 0.014 χ^2 /NDF: 778123.6/43

Out: 100.455 $\pm$ 0.013 χ^2 /NDF: 1307880.3/50

All: 101.379 $\pm$ 0.010 χ^2 /NDF: 2096668.4/94

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -33.181 ± 233.009 χ^2/NDF : 16.2/20

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -204.195 ± 201.055 χ^2/NDF : 26.9/25

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

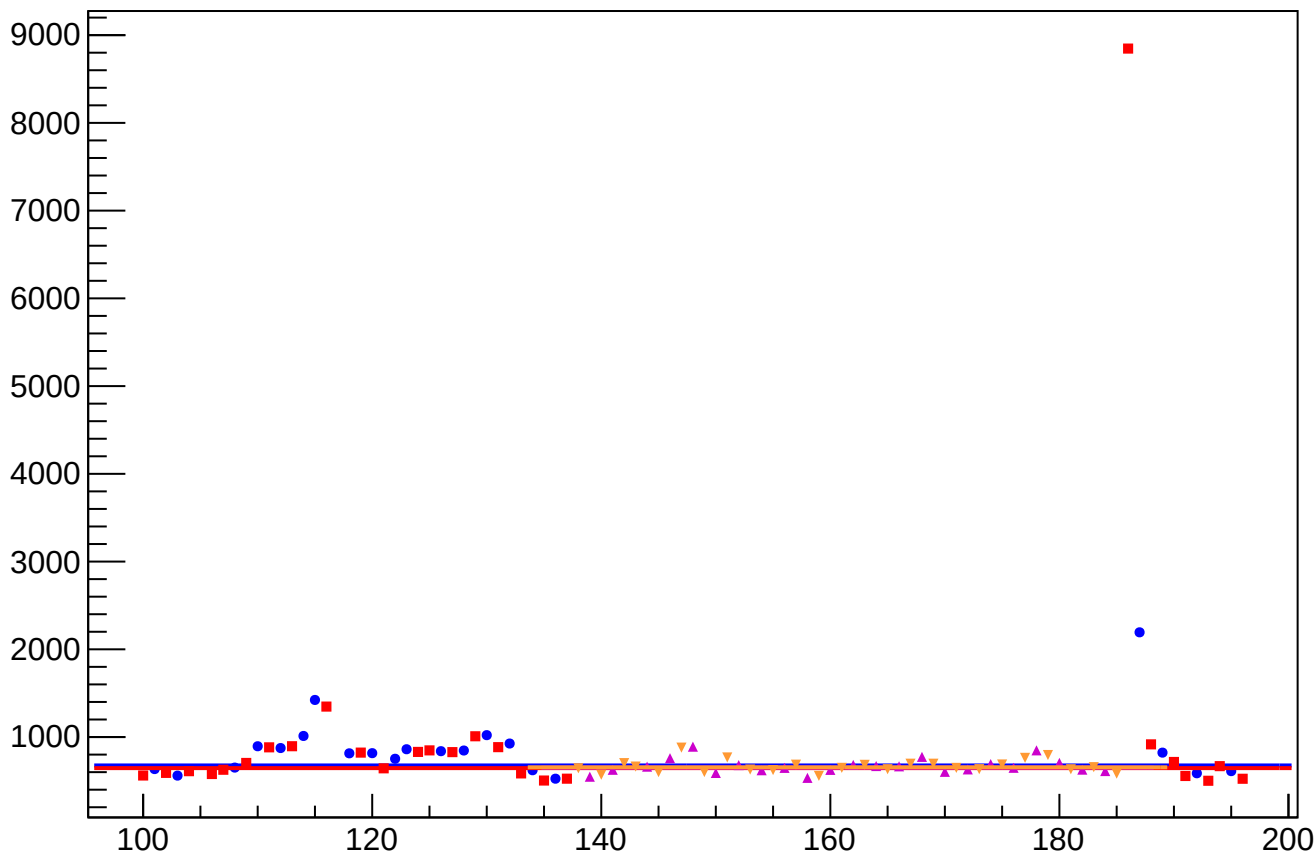
Right: -131.209 ± 152.221 χ^2/NDF : 43.4/46

In: -98.891 ± 130.291 χ^2/NDF : 52.5/43

Out: 41.713 ± 122.098 χ^2/NDF : 47.7/50

All: -24.030 ± 89.092 χ^2/NDF : 100.8/94

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 676.273+/-0.165 χ^2/NDF : 912943.5/20

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 645.918+/-0.142 χ^2/NDF : 1702958.6/25

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

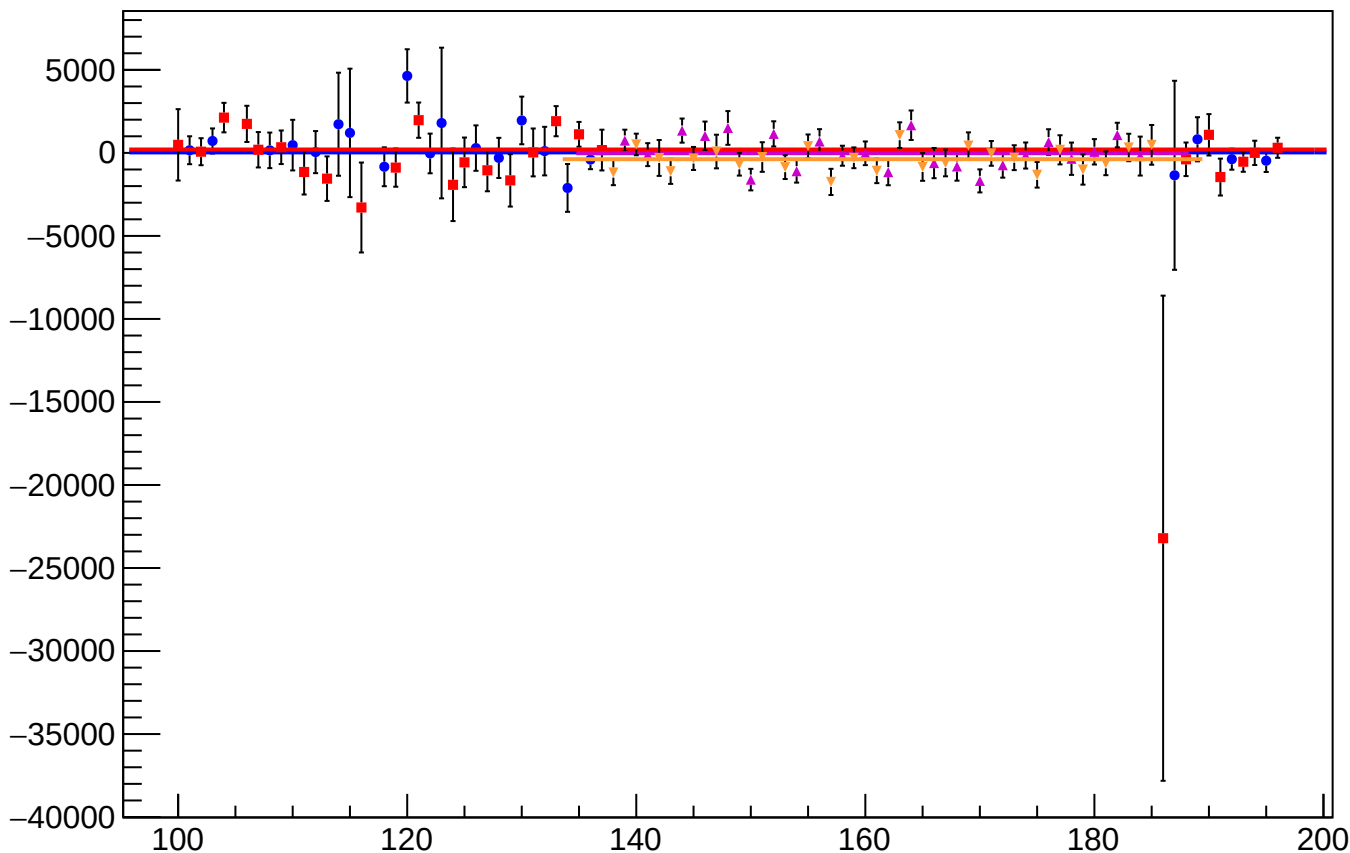
Right: 658.873+/-0.108 χ^2/NDF : 2635357.9/46

In: 658.822+/-0.092 χ^2/NDF : 1395382.0/43

Out: 651.749+/-0.086 χ^2/NDF : 2072972.9/50

All: 655.056+/-0.063 χ^2/NDF : 3471492.9/94

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 29.707+/-235.408 χ^2/NDF : 16.3/20

Left Out: -379.470+/-155.892 χ^2/NDF :18.8/24

Right Out: 204.169+/-203.361 χ^2/NDF : 30.7/25

Left In: -14.768+/-159.513 χ^2/NDF :37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

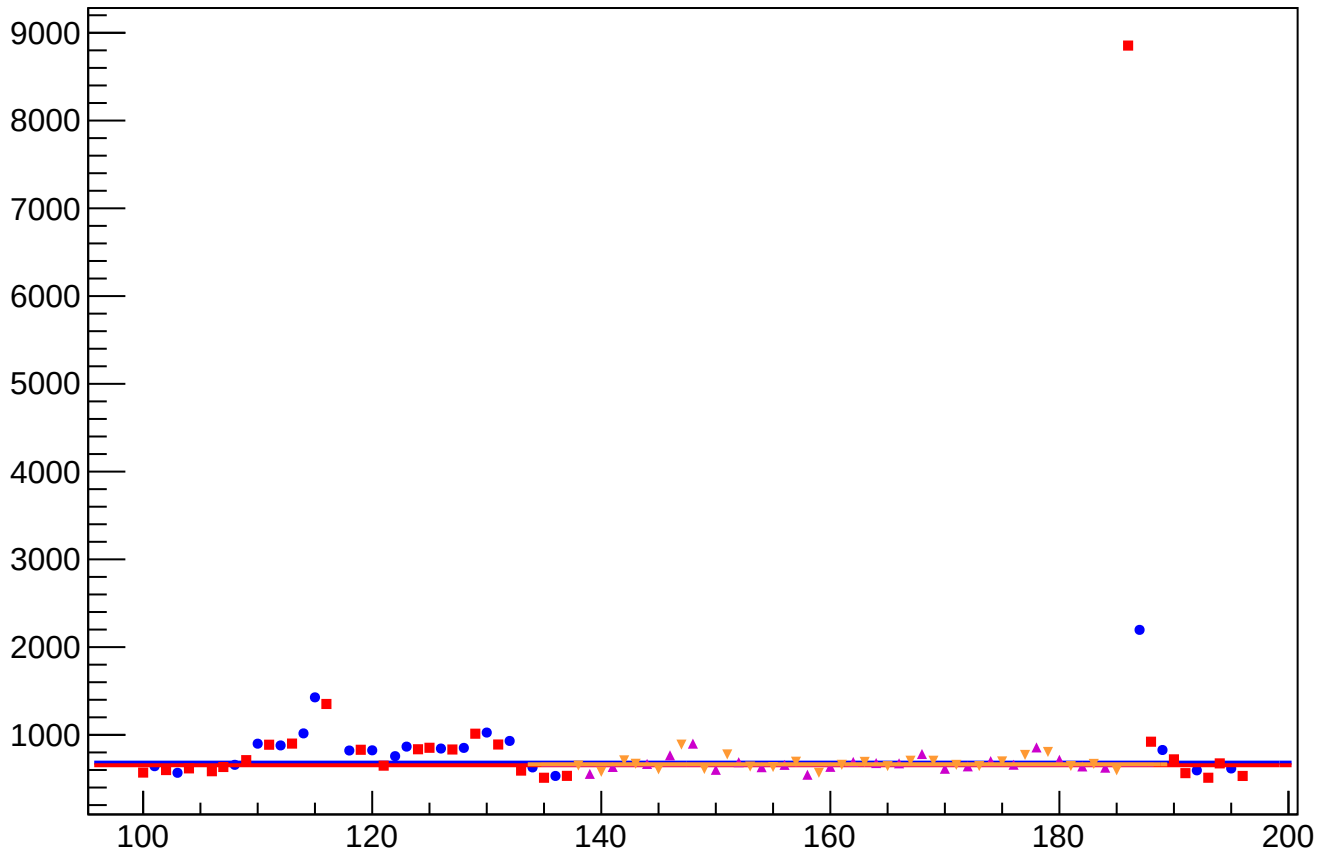
Right: 129.613+/-153.891 χ^2/NDF : 47.3/46

In: -0.773+/-132.053 χ^2/NDF :53.5/43

Out: -163.445+/-123.722 χ^2/NDF :54.7/50

All: -87.402+/-90.286 χ^2/NDF : 109.0/94

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 683.757+/-0.166 χ^2/NDF : 892066.5/20

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 654.011+/-0.144 χ^2/NDF : 1669802.6/25

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

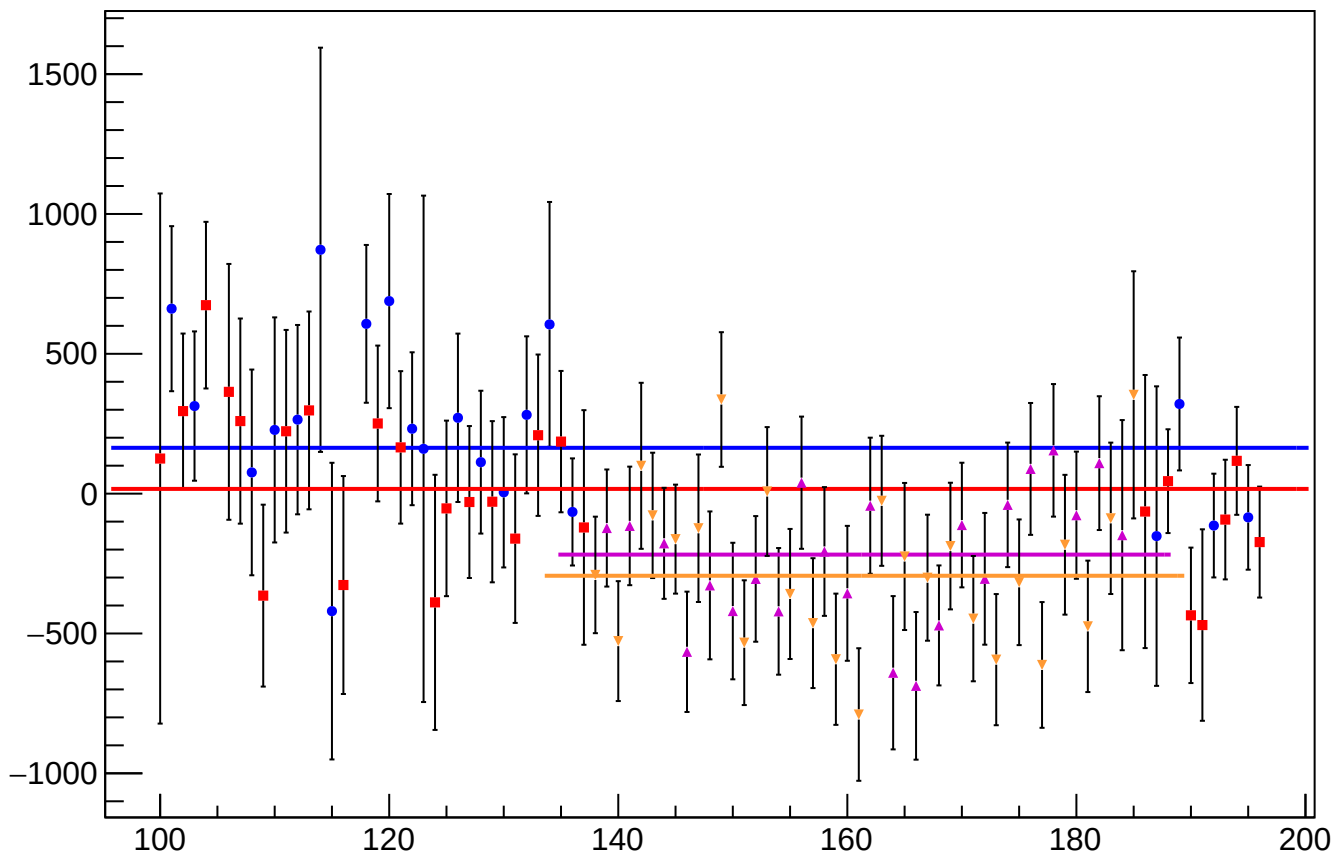
Right: 666.723+/-0.109 χ^2/NDF : 2580155.9/46

In: 668.086+/-0.093 χ^2/NDF : 1354179.5/43

Out: 660.789+/-0.087 χ^2/NDF : 2030384.1/50

All: 664.200+/-0.064 χ^2/NDF : 3387815.3/94

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 163.878 $\pm$ 63.057 χ^2 /NDF: 17.8/20

Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24

Right Out: 16.936 $\pm$ 56.480 χ^2 /NDF: 20.3/25

Left In: -217.964 $\pm$ 48.819 χ^2 /NDF:21.3/22

Left: -257.050 $\pm$ 33.934 χ^2 /NDF: 52.9/47

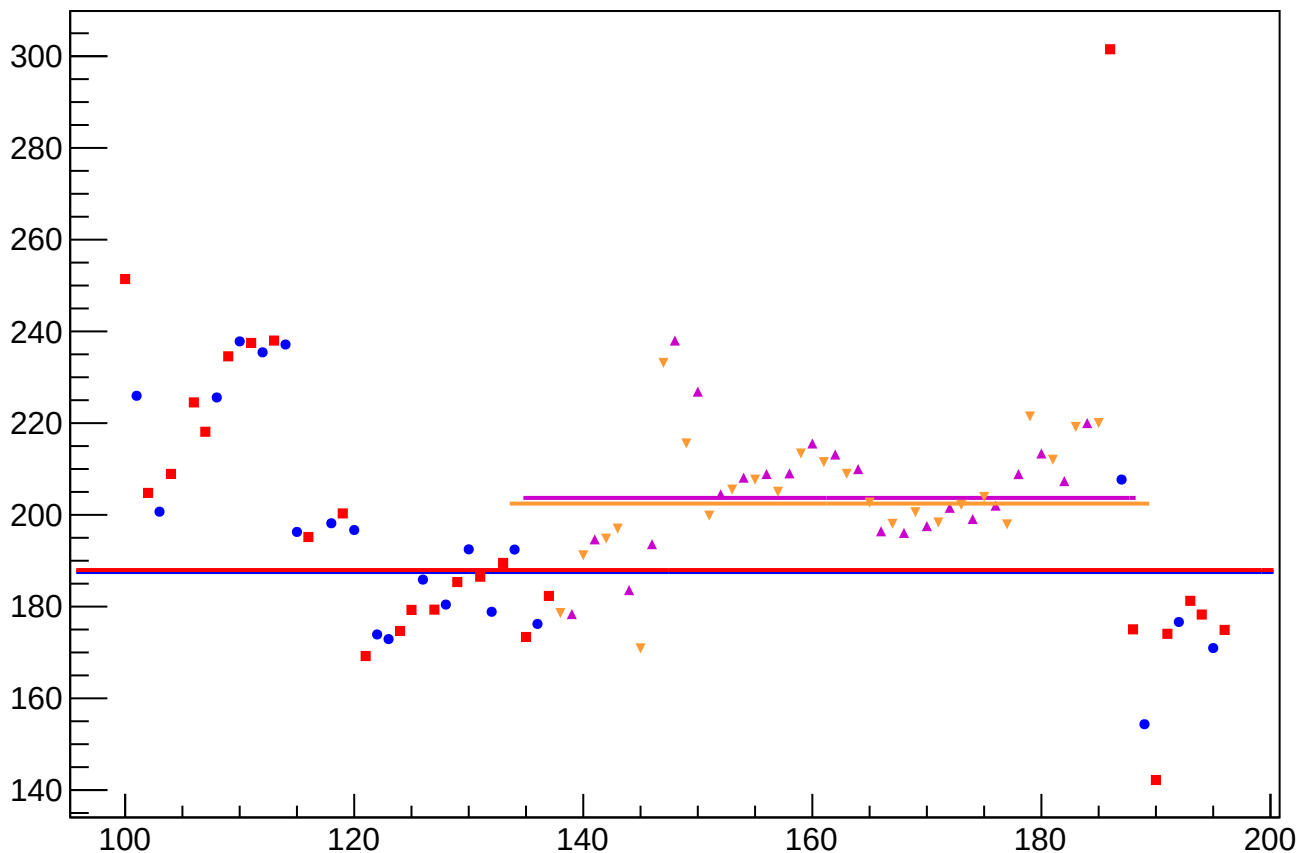
Right: 82.347 $\pm$ 42.071 χ^2 /NDF: 41.1/46

In: -74.866 $\pm$ 38.602 χ^2 /NDF:62.1/43

Out: -165.892 $\pm$ 36.219 χ^2 /NDF:68.4/50

All: -123.275 $\pm$ 26.413 χ^2 /NDF: 133.4/94

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 187.532 $\pm$ 0.045 χ^2 /NDF: 226760.7/20

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 187.971 $\pm$ 0.040 χ^2 /NDF: 405901.9/25

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

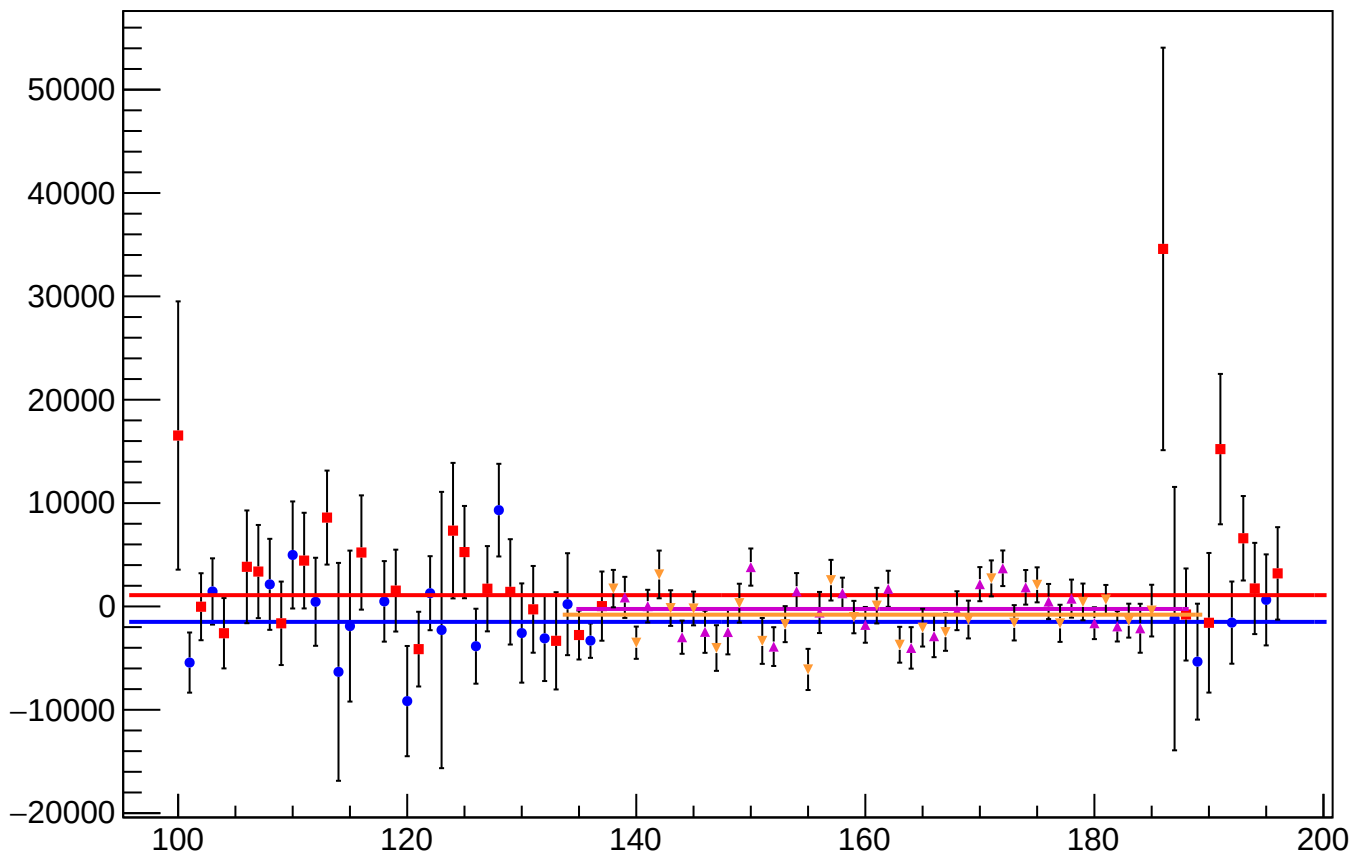
Right: 187.775 $\pm$ 0.030 χ^2 /NDF: 632716.3/46

In: 197.640 $\pm$ 0.027 χ^2 /NDF:445150.8/43

Out: 196.501 $\pm$ 0.026 χ^2 /NDF:641963.9/50

All: 197.034 $\pm$ 0.019 χ^2 /NDF: 1088041.4/94

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1493.477 $\pm$ 859.514 χ^2 /NDF: 16.7/20

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1091.941 $\pm$ 846.597 χ^2 /NDF: 24.2/25

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

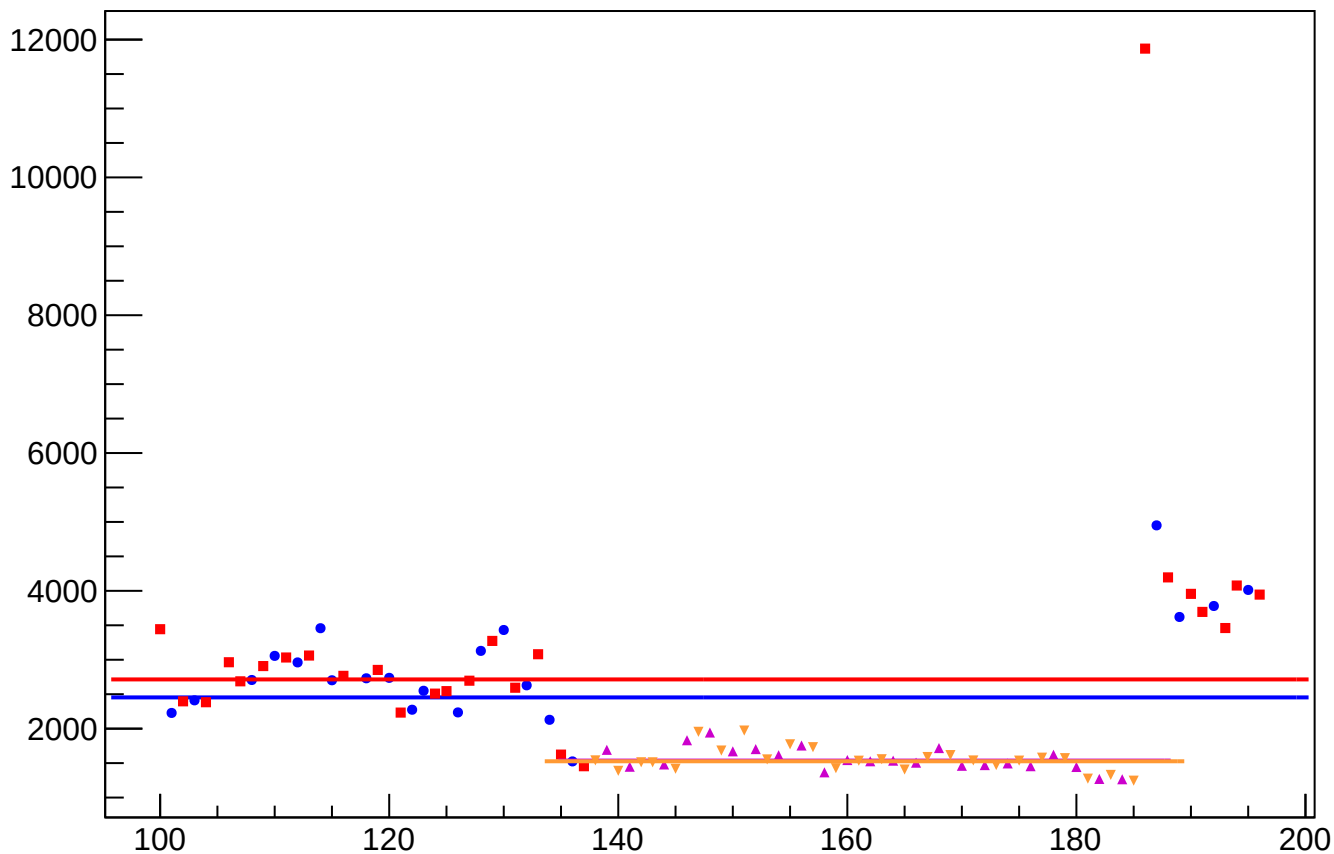
Right: -181.194 $\pm$ 603.149 χ^2 /NDF: 45.6/46

In: -440.134 $\pm$ 339.730 χ^2 /NDF: 54.2/43

Out: -510.263 $\pm$ 329.614 χ^2 /NDF: 64.2/50

All: -476.258 $\pm$ 236.568 χ^2 /NDF: 118.4/94

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2453.547+/-0.608 χ^2/NDF : 1522286.8/20

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2714.561+/-0.599 χ^2/NDF : 2039095.8/25

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

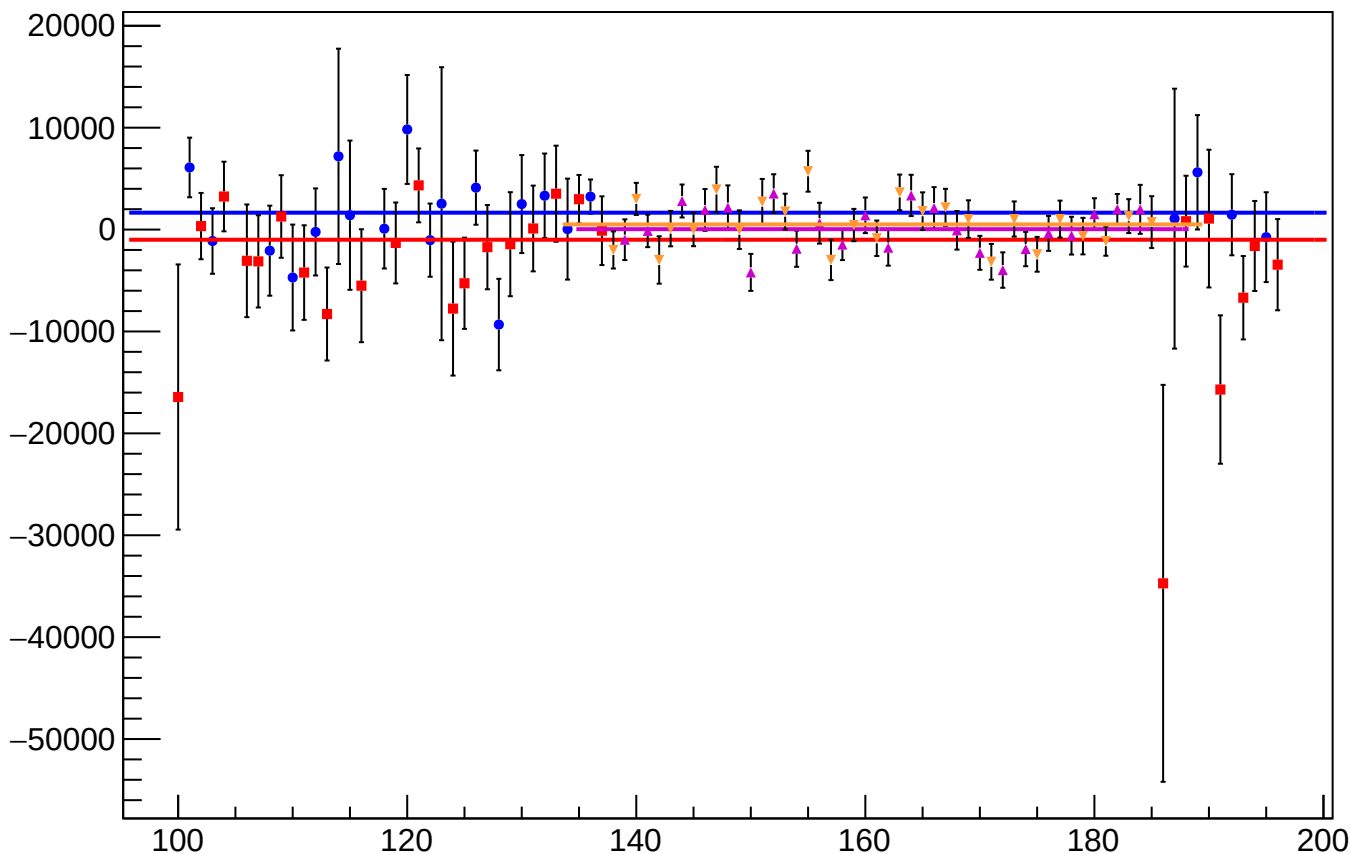
Right: 2586.030+/-0.426 χ^2/NDF : 3654998.2/46

In: 1679.801+/-0.240 χ^2/NDF : 3793522.4/43

Out: 1706.773+/-0.233 χ^2/NDF : 5774458.8/50

All: 1693.695+/-0.167 χ^2/NDF : 9574474.8/94

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1656.835 $\pm$ 862.979 χ^2 /NDF: 17.2/20

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF: 35.4/24

Right Out: -997.507 $\pm$ 849.583 χ^2 /NDF: 25.1/25

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF: 33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

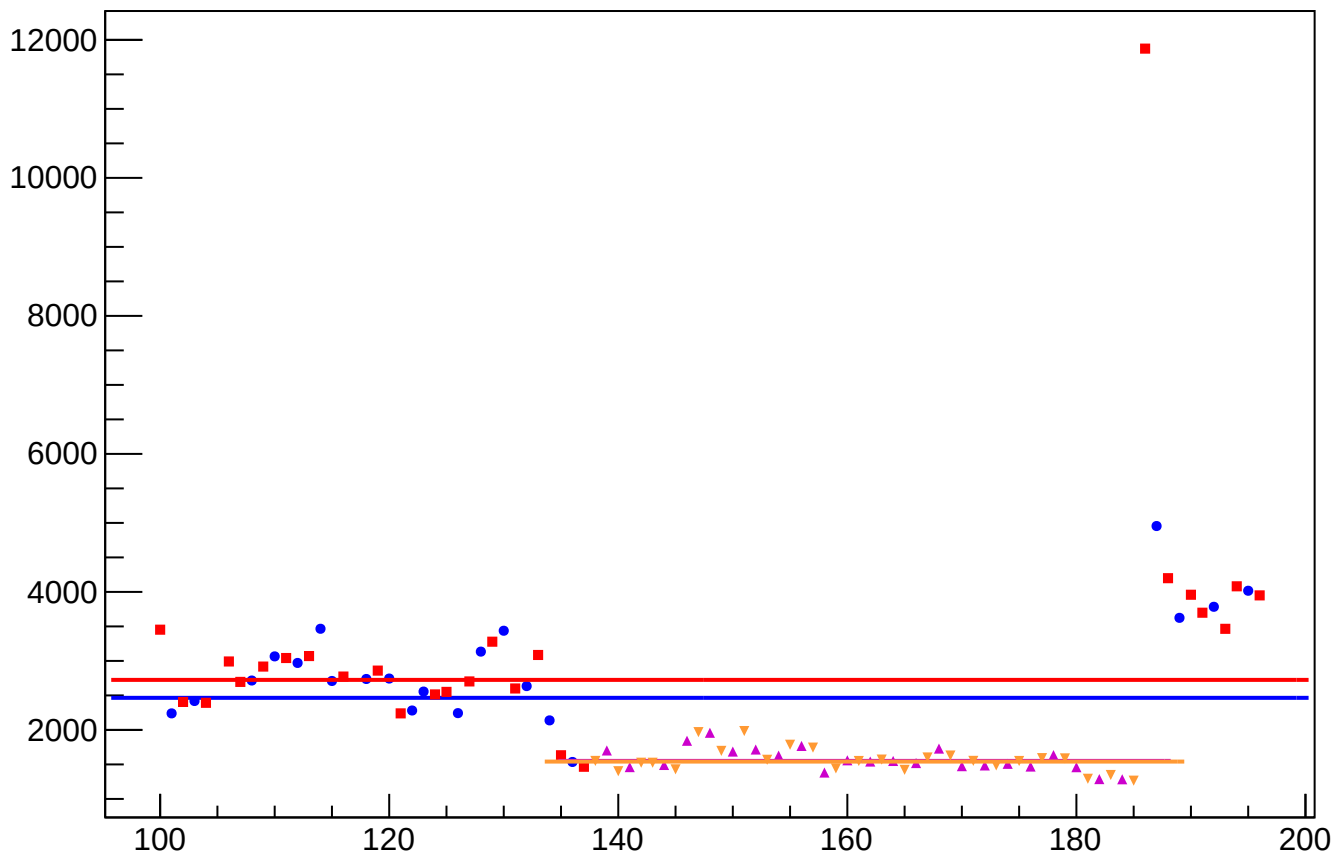
Right: 308.902 $\pm$ 605.427 χ^2 /NDF: 47.1/46

In: 294.874 $\pm$ 342.589 χ^2 /NDF: 53.8/43

Out: 277.548 $\pm$ 332.384 χ^2 /NDF: 63.1/50

All: 285.949 $\pm$ 238.557 χ^2 /NDF: 116.9/94

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2465.048 $\pm$ 0.610 χ^2/NDF : 1502337.9/20

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF : 382045.4/24

Right Out: 2725.070 $\pm$ 0.601 χ^2/NDF : 2020135.3/25

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

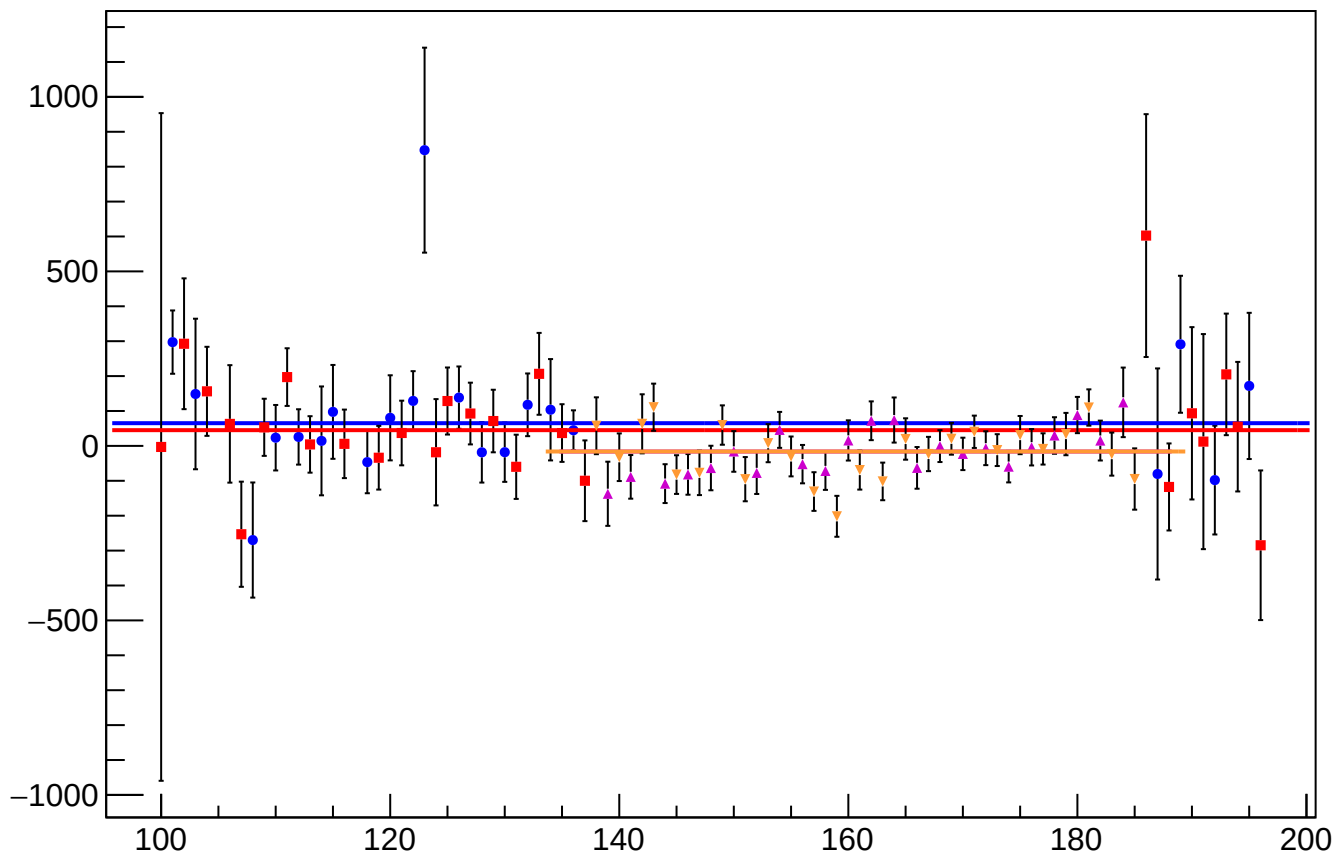
Right: 2597.093 $\pm$ 0.428 χ^2/NDF : 3614679.6/46

In: 1695.104 $\pm$ 0.242 χ^2/NDF : 3731085.7/43

Out: 1722.456 $\pm$ 0.235 χ^2/NDF : 5690959.1/50

All: 1709.193 $\pm$ 0.169 χ^2/NDF : 9428611.7/94

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 65.082 $\pm$ 23.142 χ^2 /NDF: 26.7/20

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 45.069 $\pm$ 22.594 χ^2 /NDF: 24.6/25

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

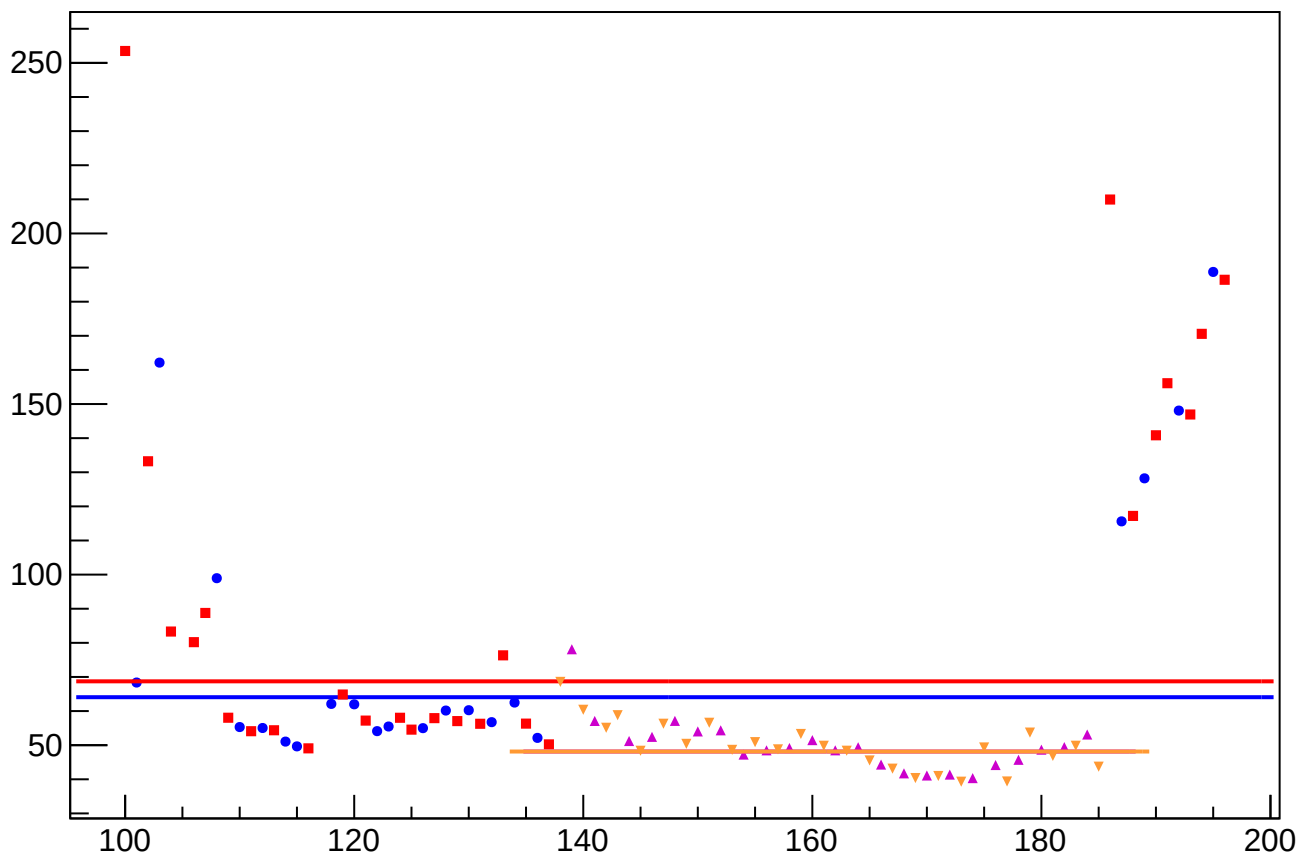
Right: 54.836 $\pm$ 16.167 χ^2 /NDF: 51.7/46

In: 0.264 $\pm$ 10.405 χ^2 /NDF:61.8/43

Out: -3.751 $\pm$ 10.135 χ^2 /NDF:70.1/50

All: -1.797 $\pm$ 7.260 χ^2 /NDF: 132.0/94

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 64.065+/-0.016 χ^2/NDF : 2309458.6/20

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 68.716+/-0.016 χ^2/NDF : 3487003.3/25

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

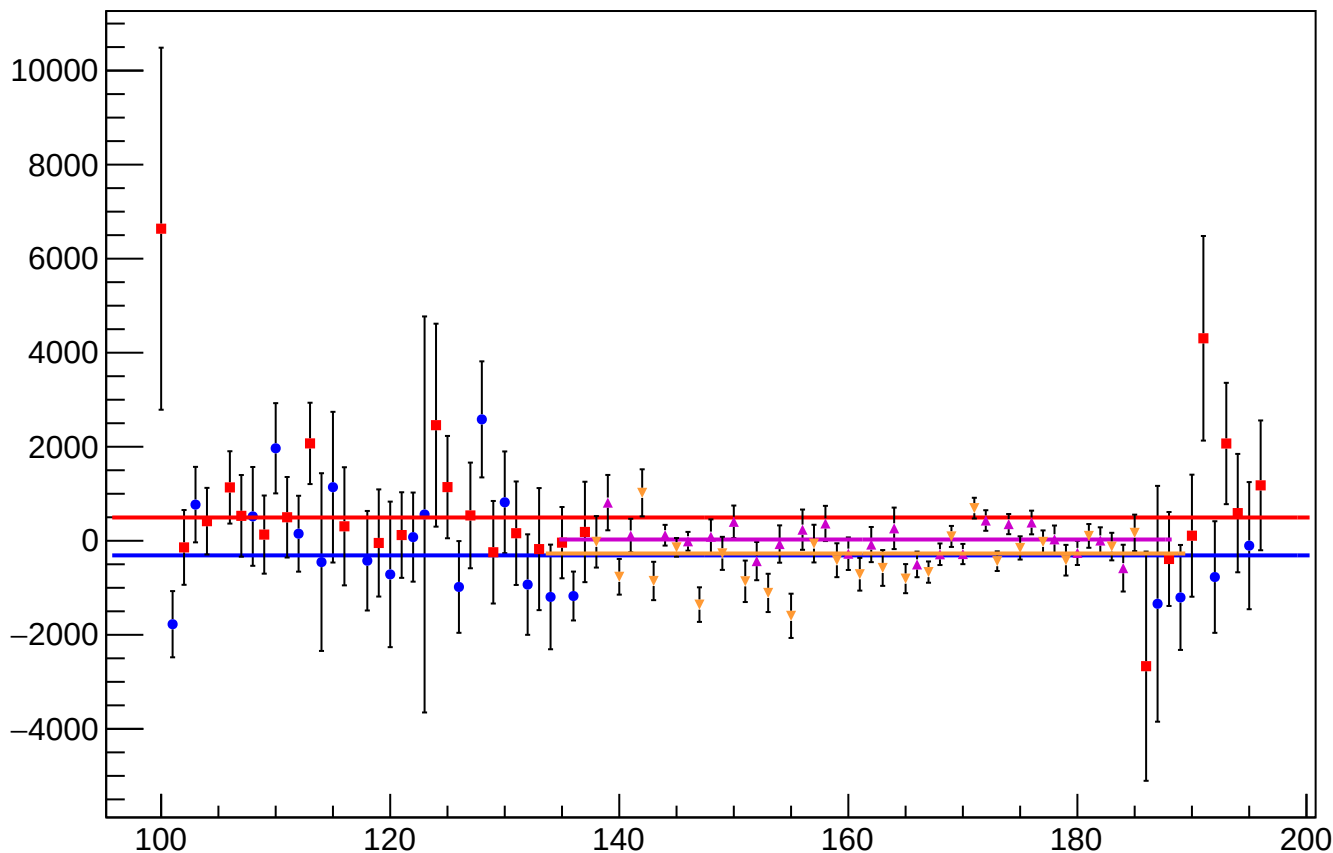
Right: 66.447+/-0.011 χ^2/NDF : 5837816.9/46

In: 51.359+/-0.007 χ^2/NDF : 3640213.6/43

Out: 52.281+/-0.007 χ^2/NDF : 5467140.0/50

All: 51.832+/-0.005 χ^2/NDF : 9115409.4/94

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -310.494 $\pm$ 221.354 χ^2 /NDF: 25.6/20

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 495.575 $\pm$ 204.651 χ^2 /NDF: 17.8/25

Left In: 27.271 $\pm$ 60.430 χ^2 /NDF:25.1/22

Left: -122.095 $\pm$ 42.641 χ^2 /NDF: 107.3/47

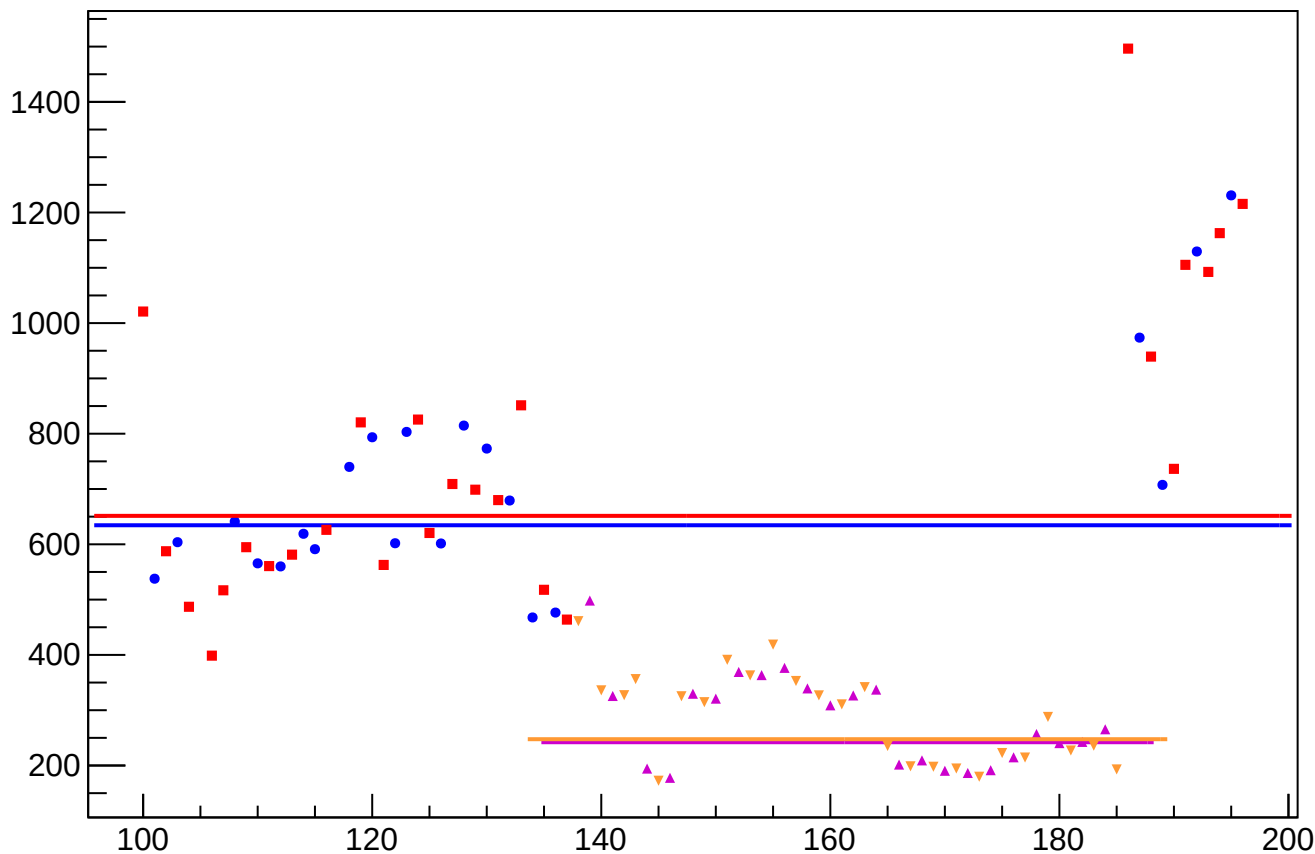
Right: 124.097 $\pm$ 150.268 χ^2 /NDF: 50.5/46

In: 3.844 $\pm$ 58.297 χ^2 /NDF:52.8/43

Out: -209.269 $\pm$ 57.733 χ^2 /NDF:100.7/50

All: -103.748 $\pm$ 41.021 χ^2 /NDF: 160.3/94

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 634.446+/-0.157 χ^2/NDF : 1209271.9/20

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 651.446+/-0.145 χ^2/NDF : 2108014.4/25

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

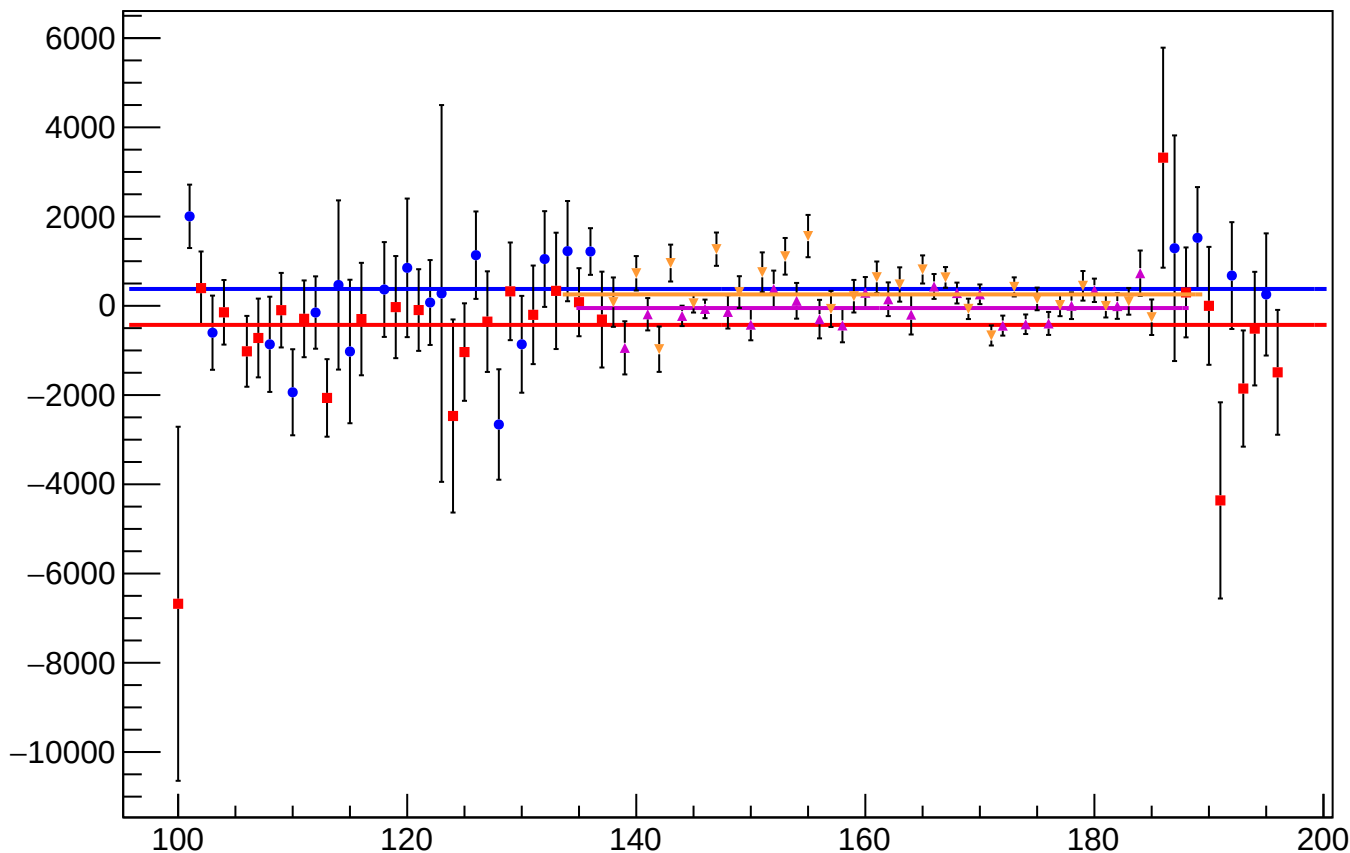
Right: 643.612+/-0.106 χ^2/NDF : 3323646.2/46

In: 269.329+/-0.041 χ^2/NDF : 9522470.0/43

Out: 279.712+/-0.041 χ^2/NDF : 12058354.4/50

All: 274.571+/-0.029 χ^2/NDF : 21612855.2/94

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 377.835 $\pm$ 223.347 χ^2 /NDF: 27.8/20

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -427.374 $\pm$ 207.001 χ^2 /NDF: 18.7/25

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

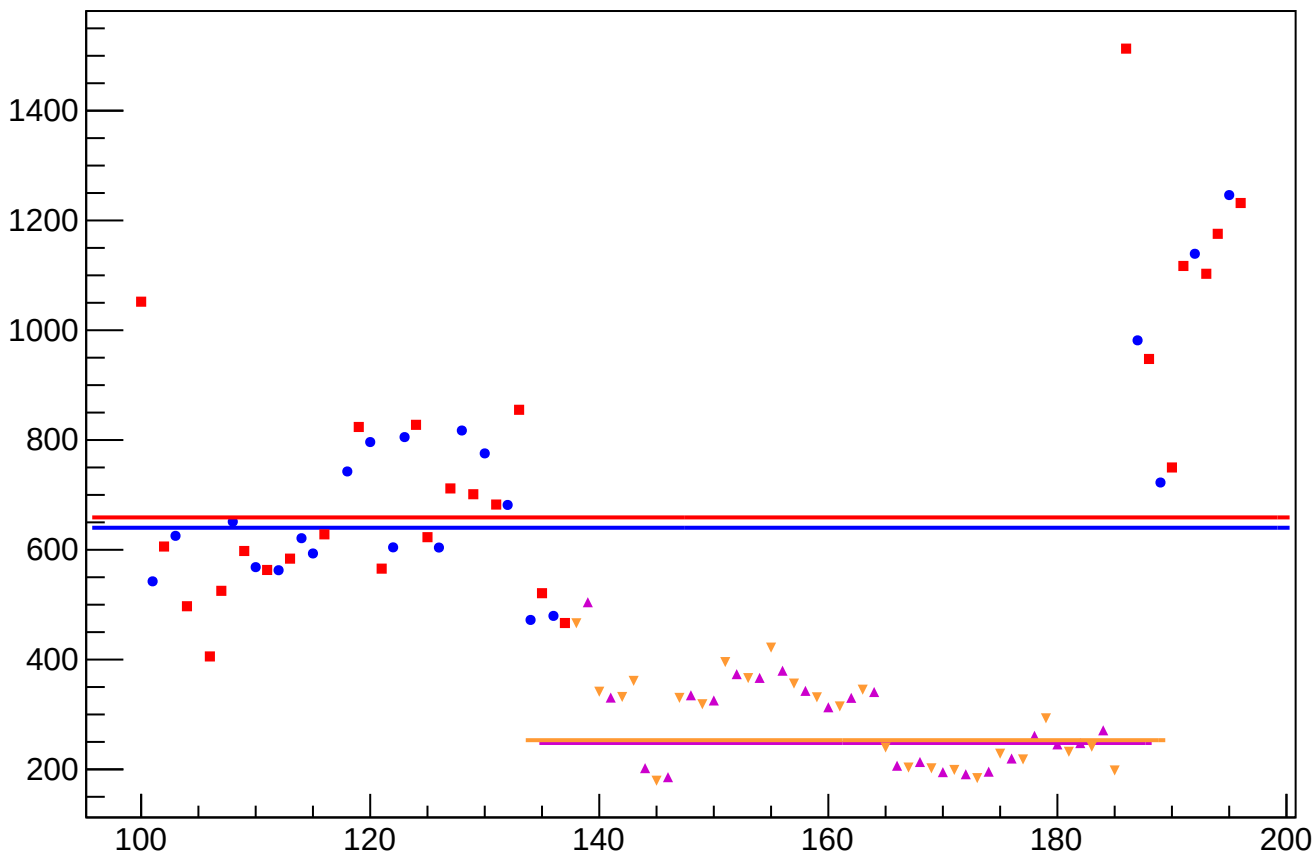
Right: -55.310 $\pm$ 151.822 χ^2 /NDF: 53.5/46

In: -19.434 $\pm$ 59.545 χ^2 /NDF:58.7/43

Out: 200.703 $\pm$ 58.881 χ^2 /NDF:92.4/50

All: 91.868 $\pm$ 41.868 χ^2 /NDF: 158.0/94

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 640.178 $\pm$ 0.158 χ^2 /NDF: 1212053.8/20

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 659.003 $\pm$ 0.146 χ^2 /NDF: 2086372.3/25

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF: 2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

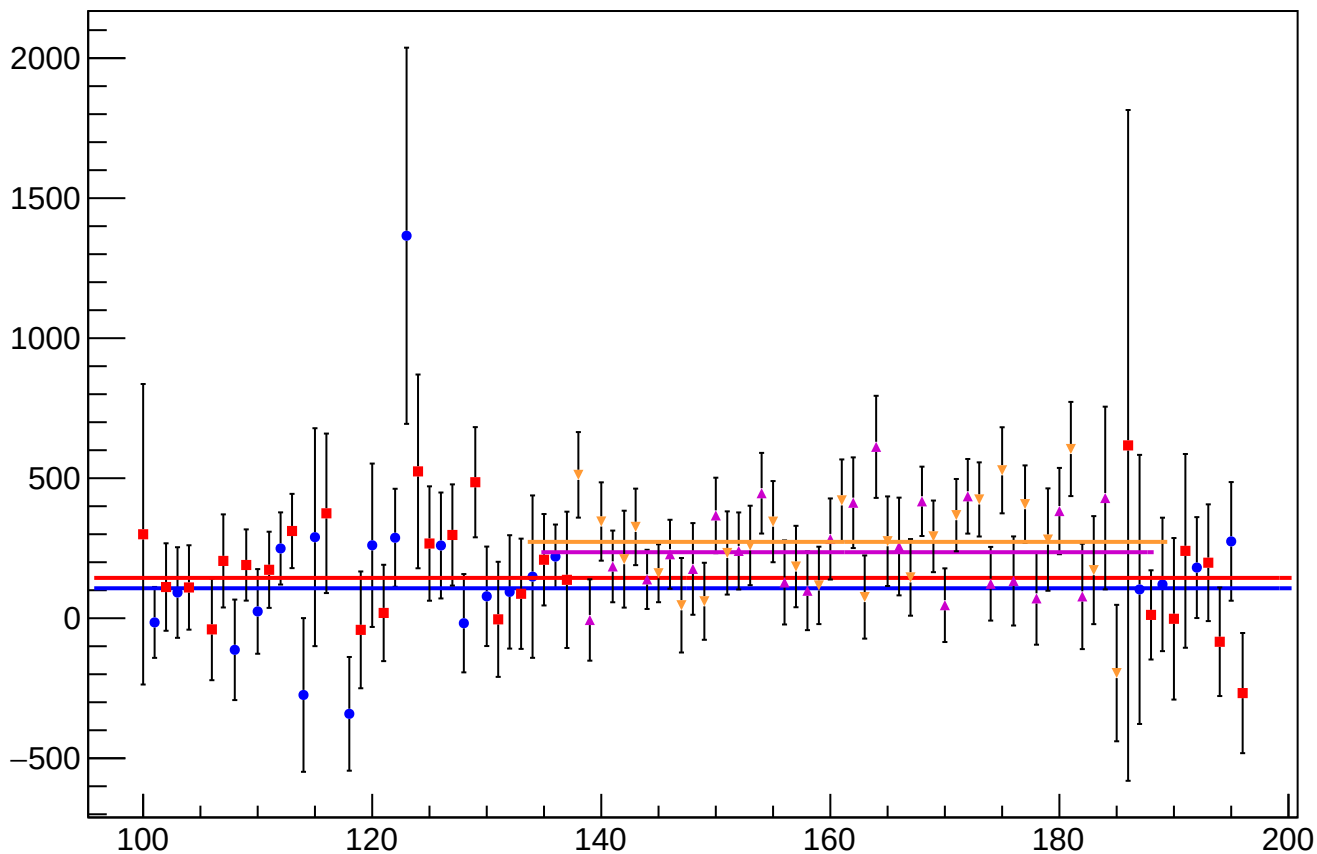
Right: 650.304 $\pm$ 0.107 χ^2 /NDF: 3306068.8/46

In: 275.939 $\pm$ 0.042 χ^2 /NDF: 9281528.4/43

Out: 285.976 $\pm$ 0.042 χ^2 /NDF: 11818902.0/50

All: 281.014 $\pm$ 0.030 χ^2 /NDF: 21129163.9/94

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 107.044+/-40.622 χ^2/NDF : 18.8/20

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 144.052+/-37.229 χ^2/NDF : 17.5/25

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

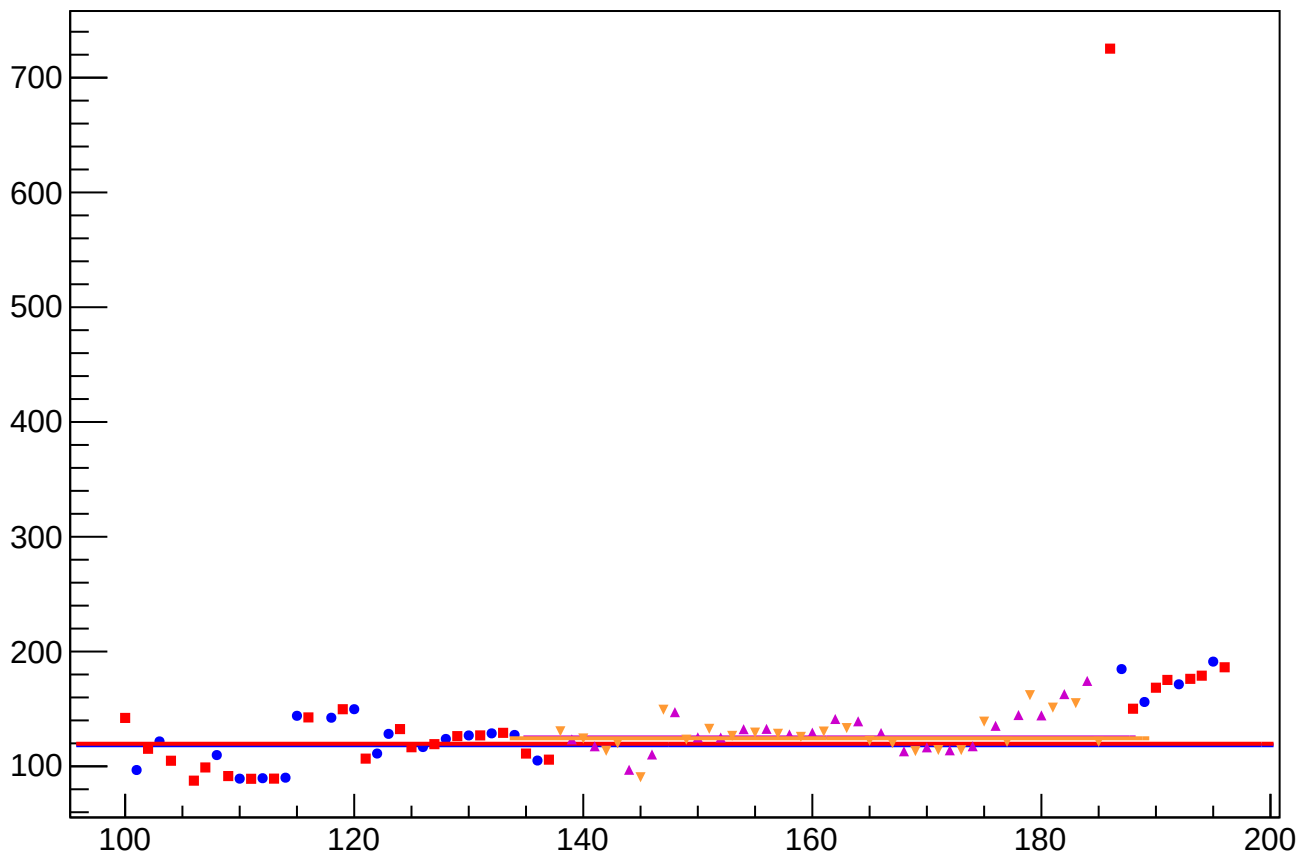
Right: 127.157+/-27.446 χ^2/NDF : 36.7/46

In: 189.906+/-24.252 χ^2/NDF : 49.9/43

Out: 223.648+/-22.986 χ^2/NDF : 52.3/50

All: 207.681+/-16.683 χ^2/NDF : 103.2/94

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 118.367 $\pm$ 0.029 χ^2 /NDF: 861109.5/20

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 119.665 $\pm$ 0.026 χ^2 /NDF: 1733663.6/25

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

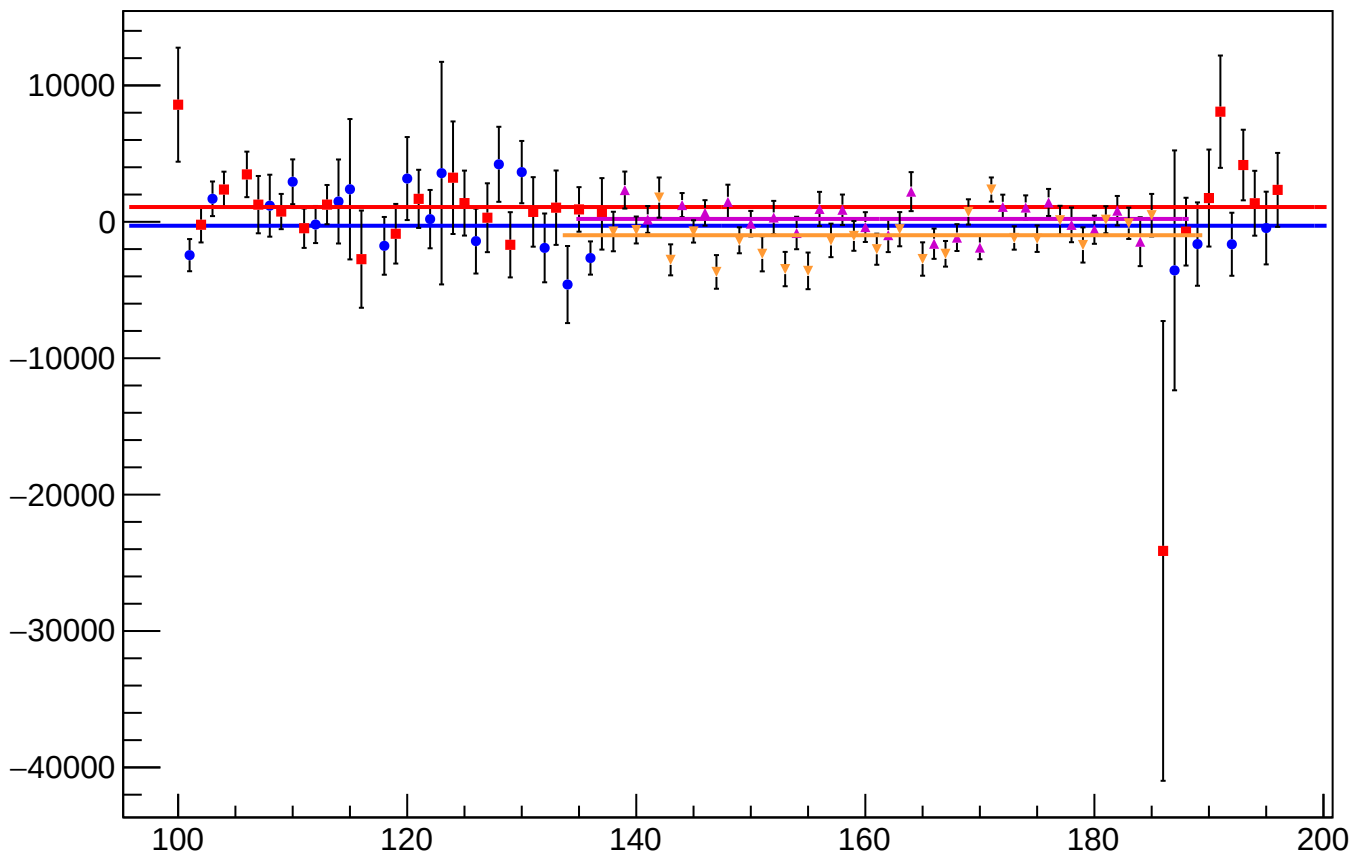
Right: 119.073 $\pm$ 0.019 χ^2 /NDF: 2595882.4/46

In: 122.768 $\pm$ 0.017 χ^2 /NDF: 1398965.6/43

Out: 122.613 $\pm$ 0.016 χ^2 /NDF: 2293656.6/50

All: 122.686 $\pm$ 0.012 χ^2 /NDF: 3692665.3/94

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -287.456+/-444.642 χ^2/NDF : 25.8/20

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1084.620+/-407.200 χ^2/NDF : 19.6/25

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

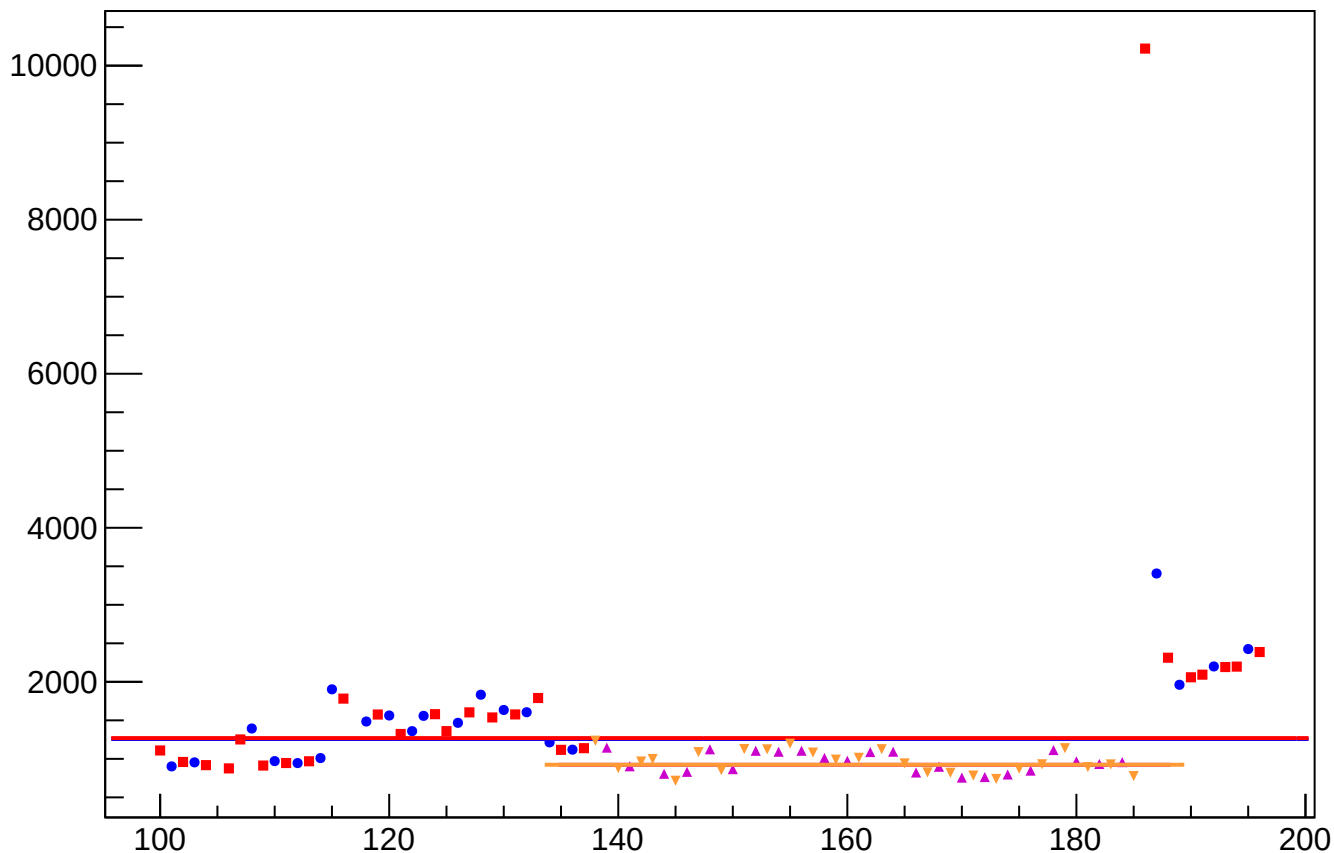
Right: 458.773+/-300.300 χ^2/NDF : 50.6/46

In: 110.944+/-199.547 χ^2/NDF : 52.4/43

Out: -522.211+/-192.205 χ^2/NDF : 86.9/50

All: -217.495+/-138.432 χ^2/NDF : 144.5/94

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1258.067 $\pm$ 0.314 χ^2 /NDF: 1728344.3/20

Left Out: 923.586 $\pm$ 0.154 χ^2 /NDF: 842758.6/24

Right Out: 1269.394 $\pm$ 0.288 χ^2 /NDF: 2987029.8/25

Left In: 922.245 $\pm$ 0.158 χ^2 /NDF: 634712.1/22

Left: 922.932 $\pm$ 0.110 χ^2 /NDF: 1477507.6/47

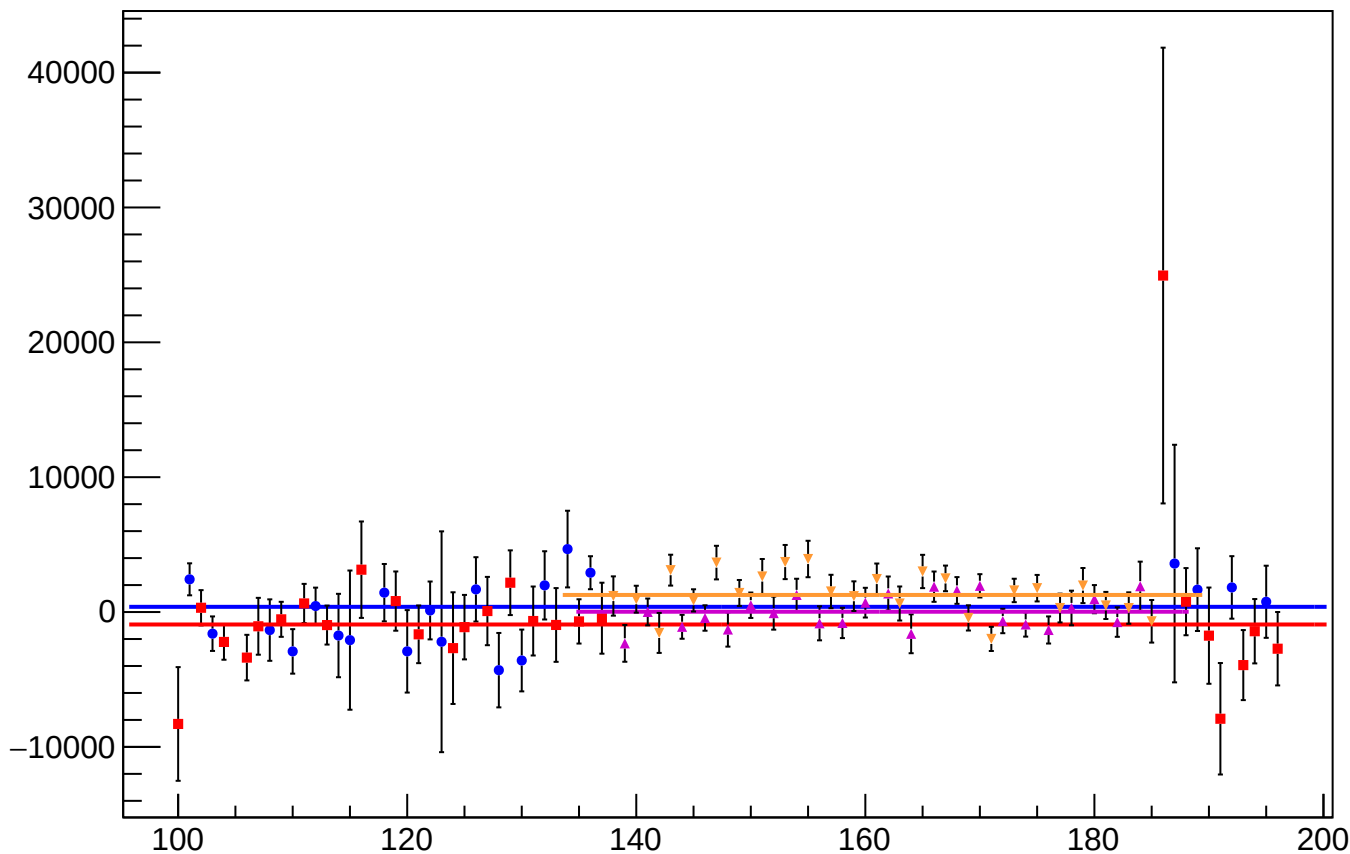
Right: 1264.227 $\pm$ 0.212 χ^2 /NDF: 4716079.8/46

In: 989.881 $\pm$ 0.141 χ^2 /NDF: 3274134.7/43

Out: 1000.632 $\pm$ 0.136 χ^2 /NDF: 4950812.5/50

All: 995.458 $\pm$ 0.098 χ^2 /NDF: 8227958.4/94

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 386.795+/-446.758 χ^2/NDF : 26.0/20

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -922.931+/-409.311 χ^2/NDF : 19.9/25

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

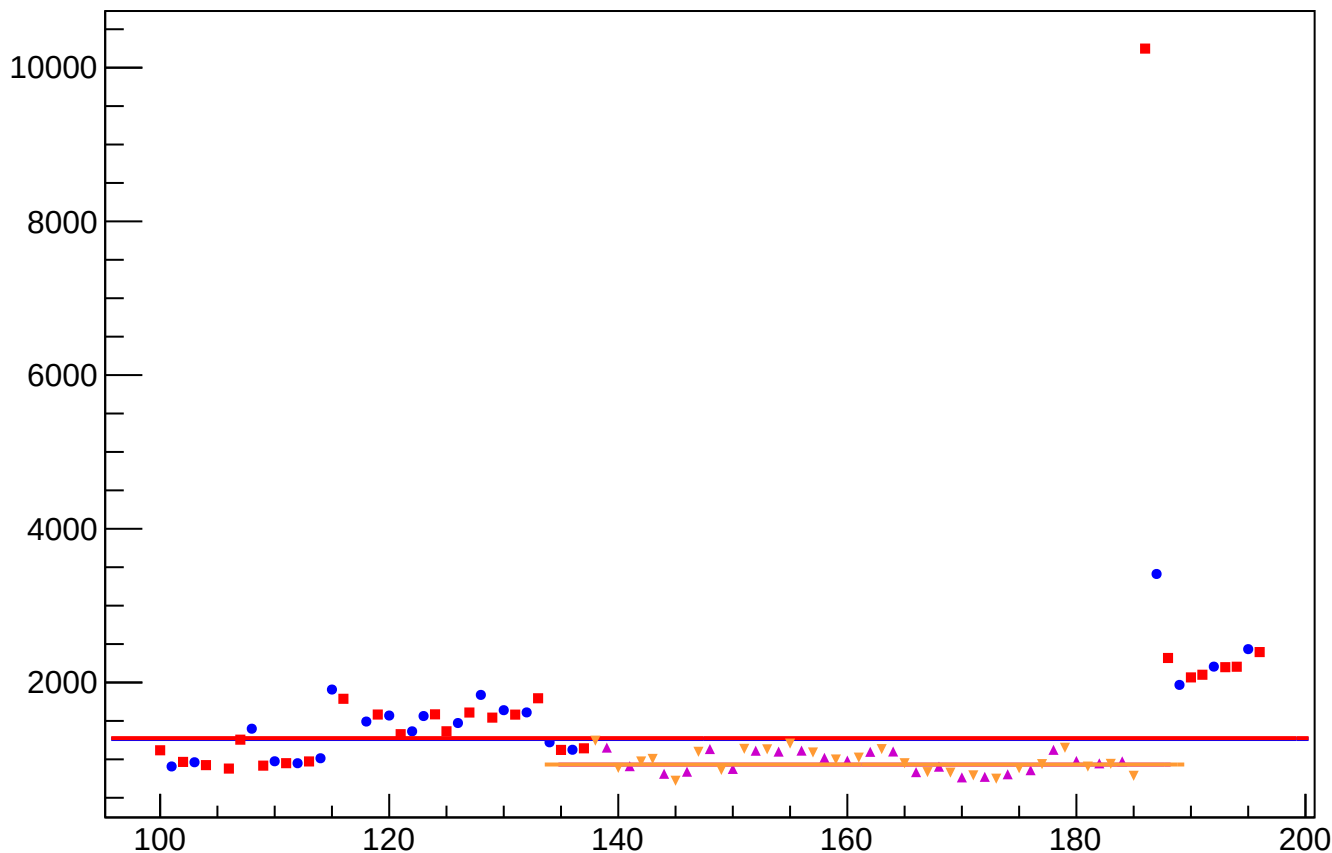
Right: -325.250+/-301.798 χ^2/NDF : 50.7/46

In: 97.241+/-201.303 χ^2/NDF :53.7/43

Out: 775.952+/-193.873 χ^2/NDF :87.1/50

All: 449.352+/-139.642 χ^2/NDF : 146.7/94

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1264.494+/-0.316 χ^2/NDF : 1718417.0/20

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1276.205+/-0.289 χ^2/NDF : 2972464.1/25

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

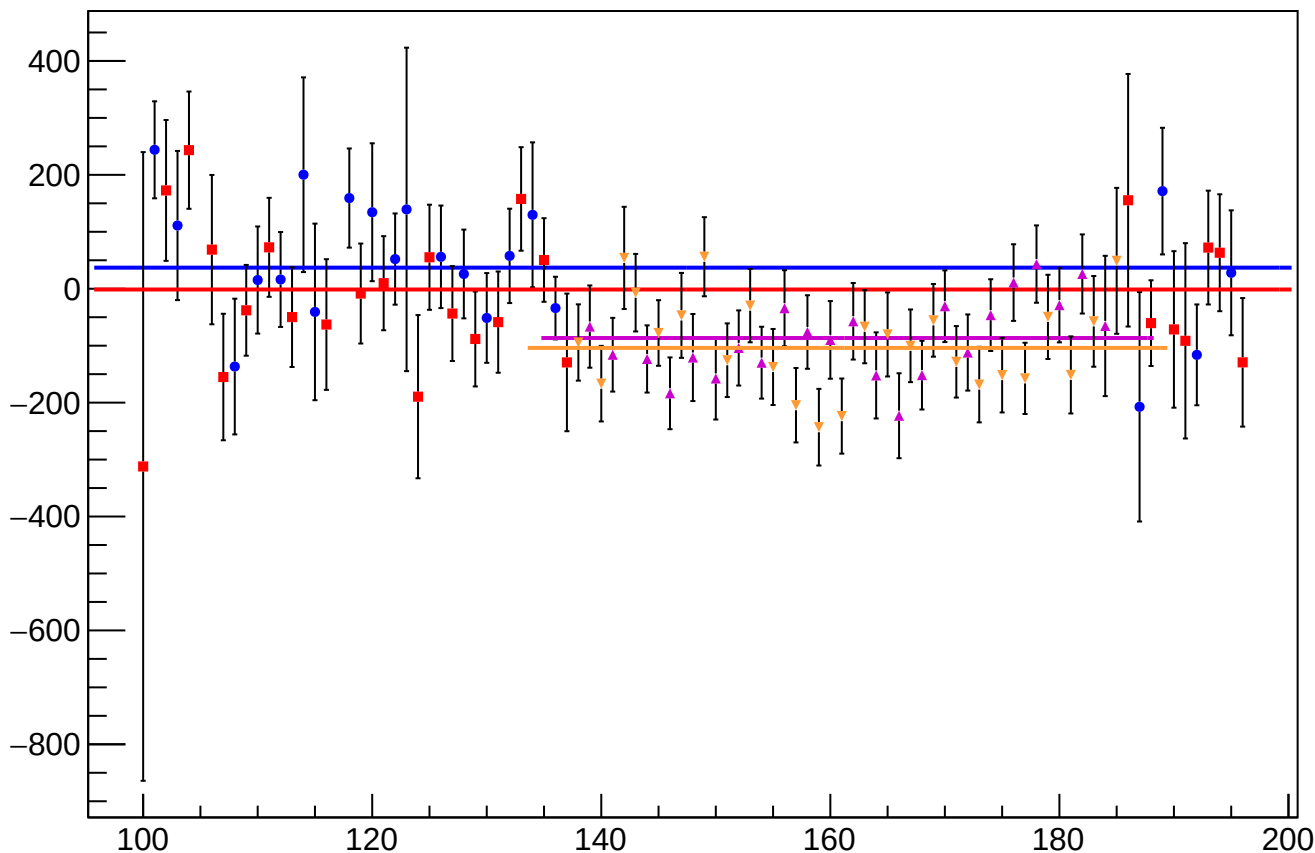
Right: 1270.861+/-0.213 χ^2/NDF : 4691628.2/46

In: 999.101+/-0.142 χ^2/NDF : 3228419.5/43

Out: 1009.816+/-0.137 χ^2/NDF : 4894439.5/50

All: 1004.660+/-0.099 χ^2/NDF : 8125798.5/94

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 37.024 ± 20.981 χ^2/NDF : 21.9/20

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: -1.351 ± 19.658 χ^2/NDF : 24.1/25

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

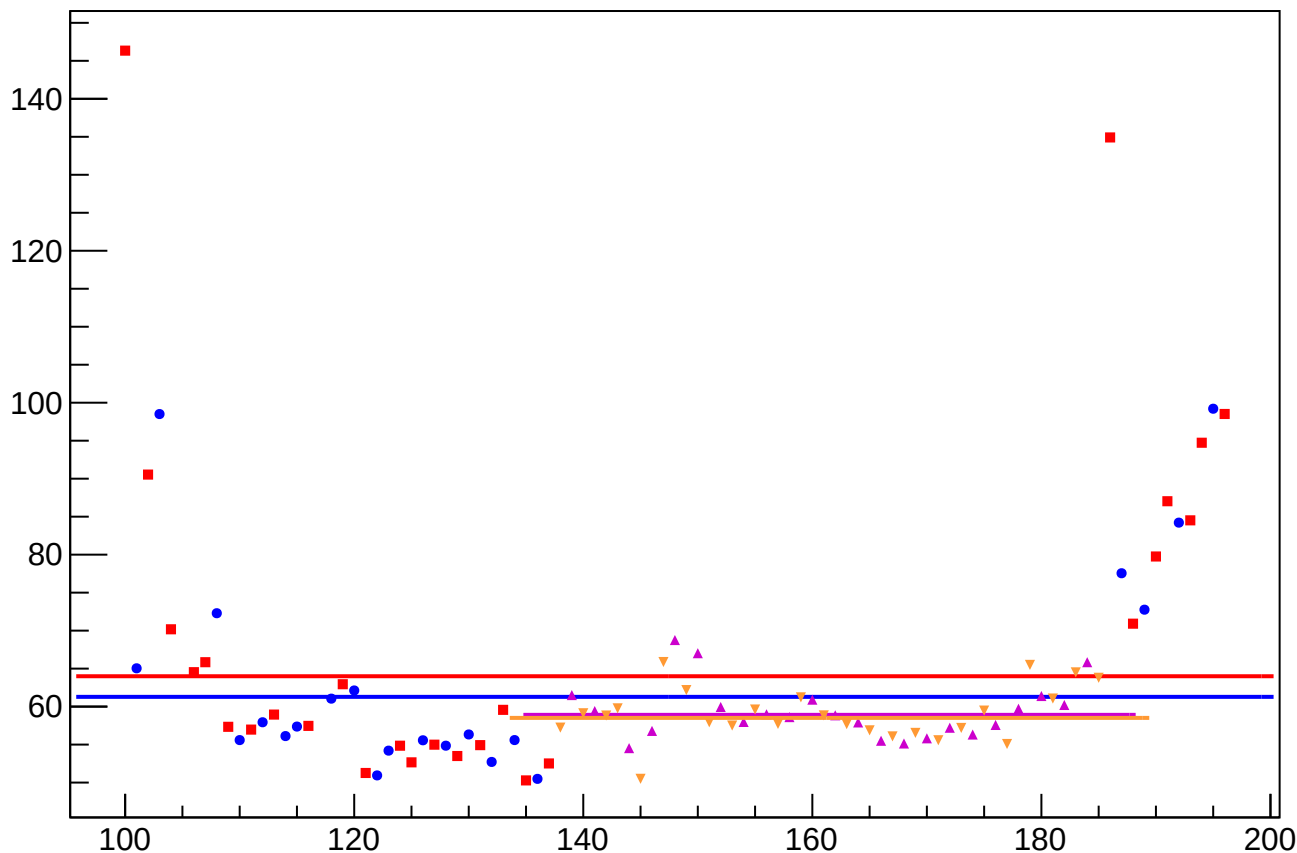
Right: 16.589 ± 14.345 χ^2/NDF : 47.8/46

In: -48.024 ± 11.714 χ^2/NDF : 67.2/43

Out: -70.566 ± 11.208 χ^2/NDF : 72.4/50

All: -59.793 ± 8.098 χ^2/NDF : 141.5/94

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 61.283+/-0.015 χ^2/NDF : 770443.2/20

Left Out: 58.513+/-0.010 χ^2/NDF : 123221.6/24

Right Out: 63.996+/-0.014 χ^2/NDF : 1173582.8/25

Left In: 58.913+/-0.010 χ^2/NDF : 109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

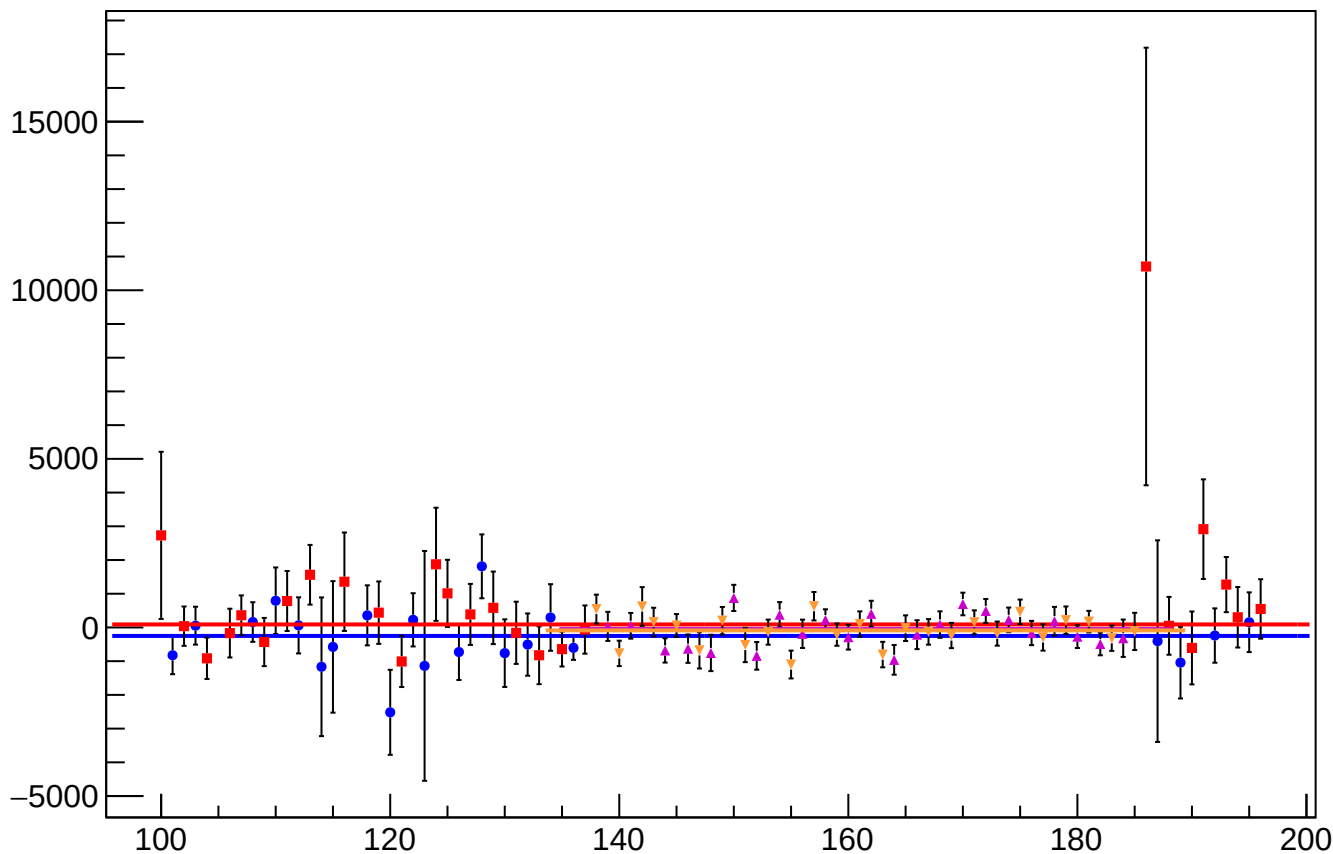
Right: 62.728+/-0.010 χ^2/NDF : 1961831.5/46

In: 59.652+/-0.008 χ^2/NDF : 897971.5/43

Out: 60.295+/-0.008 χ^2/NDF : 1401820.5/50

All: 59.988+/-0.006 χ^2/NDF : 2302939.0/94

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -251.287 ± 173.516 $\chi^2/\text{NDF}: 14.9/20$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 89.535 ± 164.705 $\chi^2/\text{NDF}: 25.8/25$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

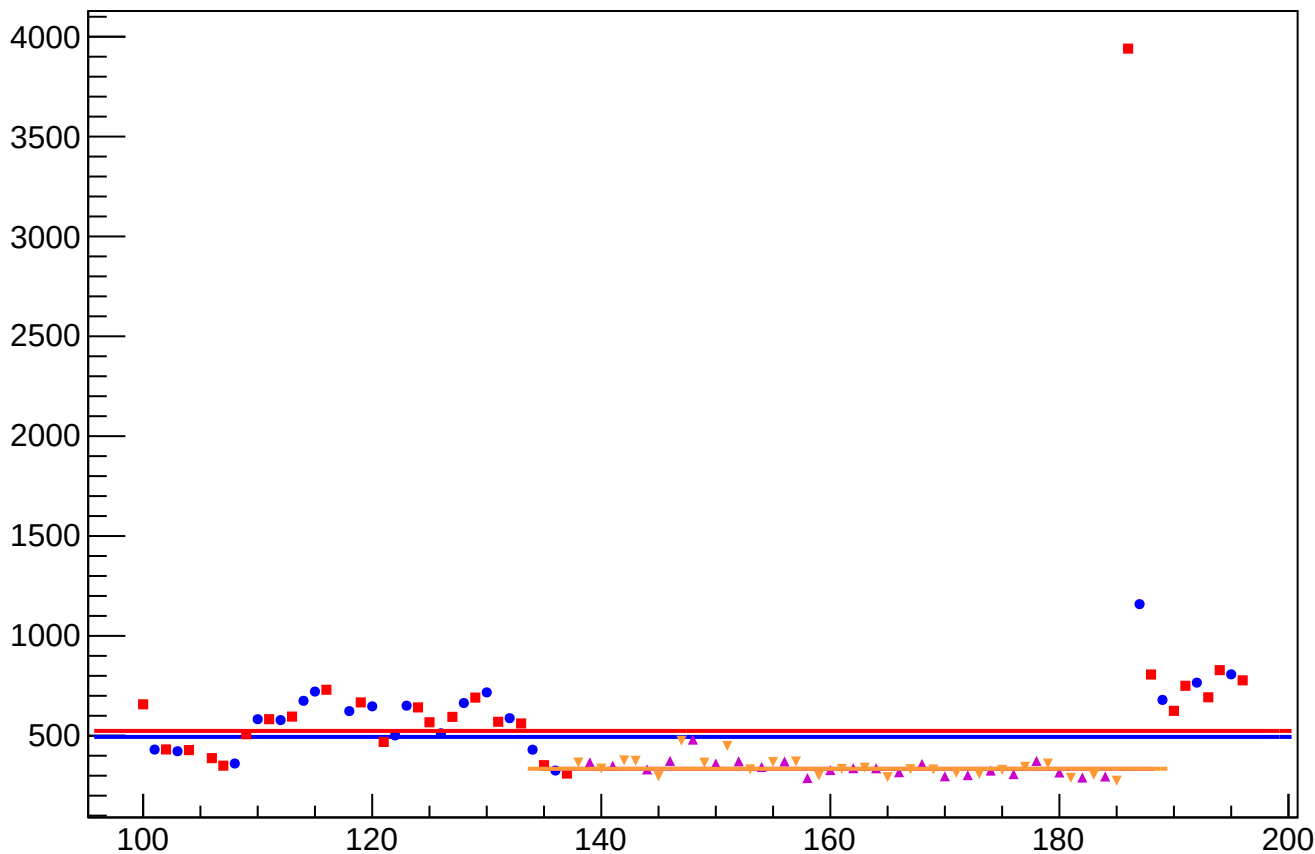
Right: -72.003 ± 119.458 $\chi^2/\text{NDF}: 42.8/46$

In: -84.650 ± 73.060 $\chi^2/\text{NDF}: 51.4/43$

Out: -54.657 ± 70.905 $\chi^2/\text{NDF}: 54.5/50$

All: -69.205 ± 50.882 $\chi^2/\text{NDF}: 106.0/94$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 494.119+/-0.123 χ^2/NDF : 1591900.2/20

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 524.186+/-0.116 χ^2/NDF : 2269508.5/25

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

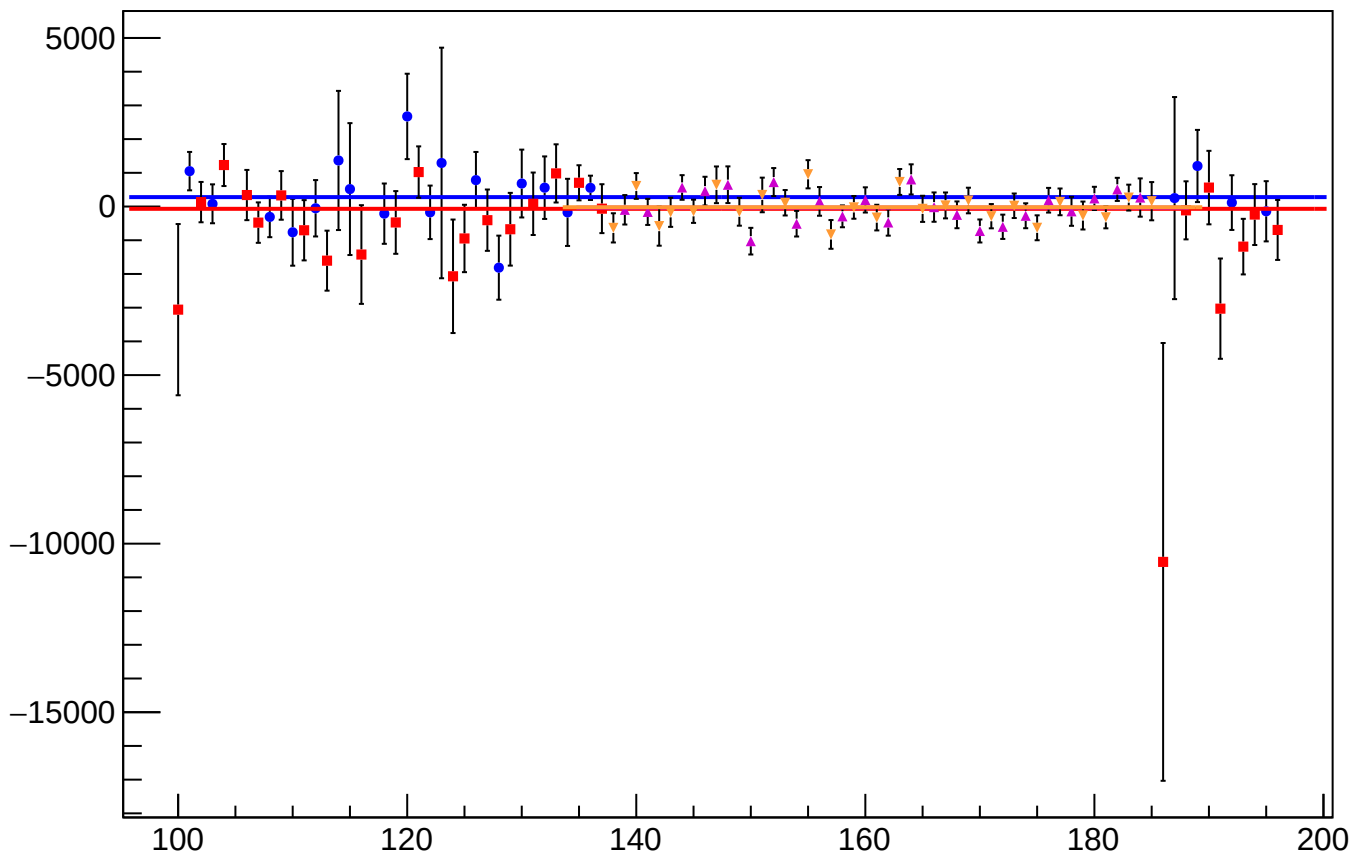
Right: 509.935+/-0.084 χ^2/NDF : 3892998.7/46

In: 362.508+/-0.052 χ^2/NDF : 3387685.5/43

Out: 369.856+/-0.050 χ^2/NDF : 4916298.2/50

All: 366.292+/-0.036 χ^2/NDF : 8314403.6/94

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 279.513 ± 175.463 χ^2/NDF : 16.0/20

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -67.860 ± 166.579 χ^2/NDF : 29.1/25

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

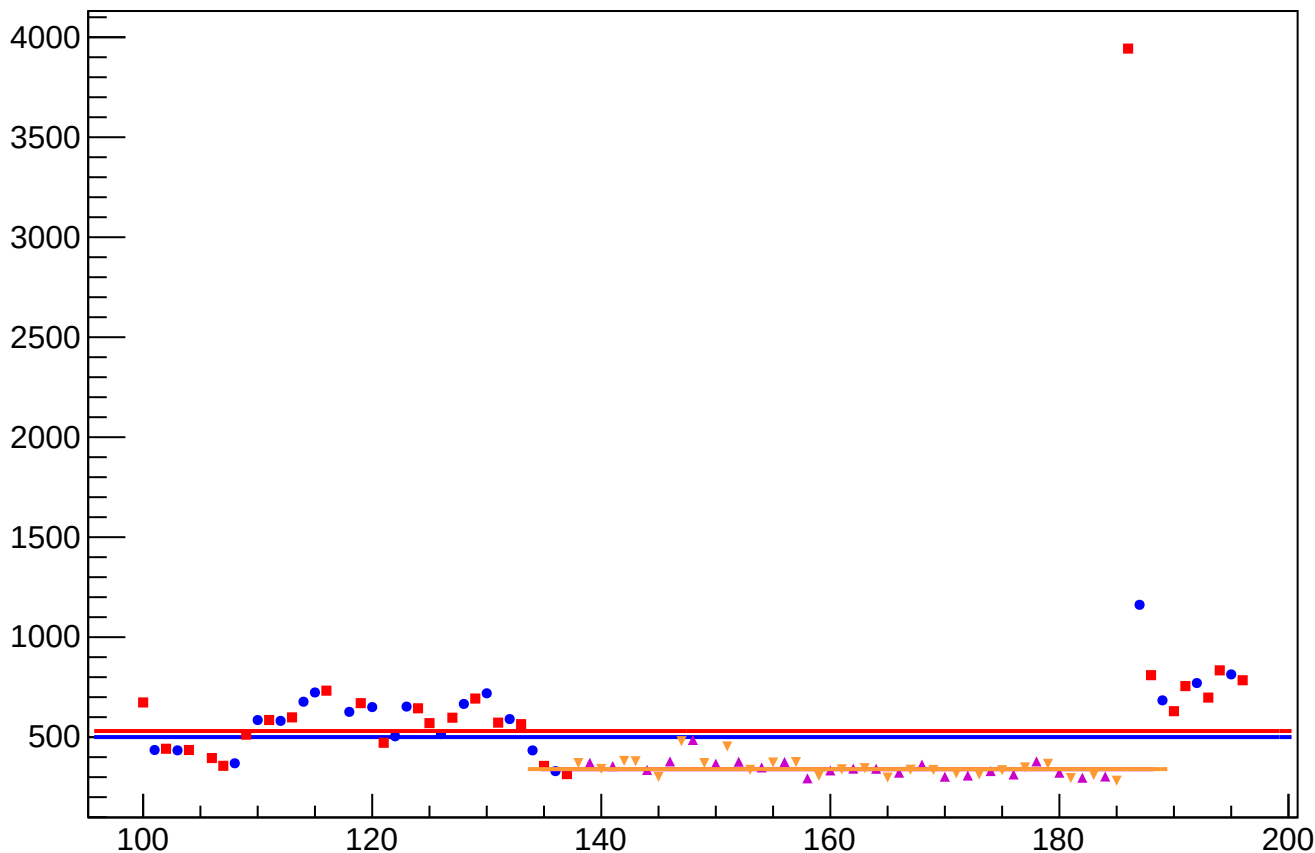
Right: 96.811 ± 120.808 χ^2/NDF : 47.2/46

In: 23.824 ± 74.169 χ^2/NDF : 52.6/43

Out: -29.664 ± 71.977 χ^2/NDF : 56.4/50

All: -3.722 ± 51.653 χ^2/NDF : 109.3/94

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 500.380+/-0.124 χ^2/NDF : 1547512.1/20

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 530.705+/-0.118 χ^2/NDF : 2218760.7/25

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

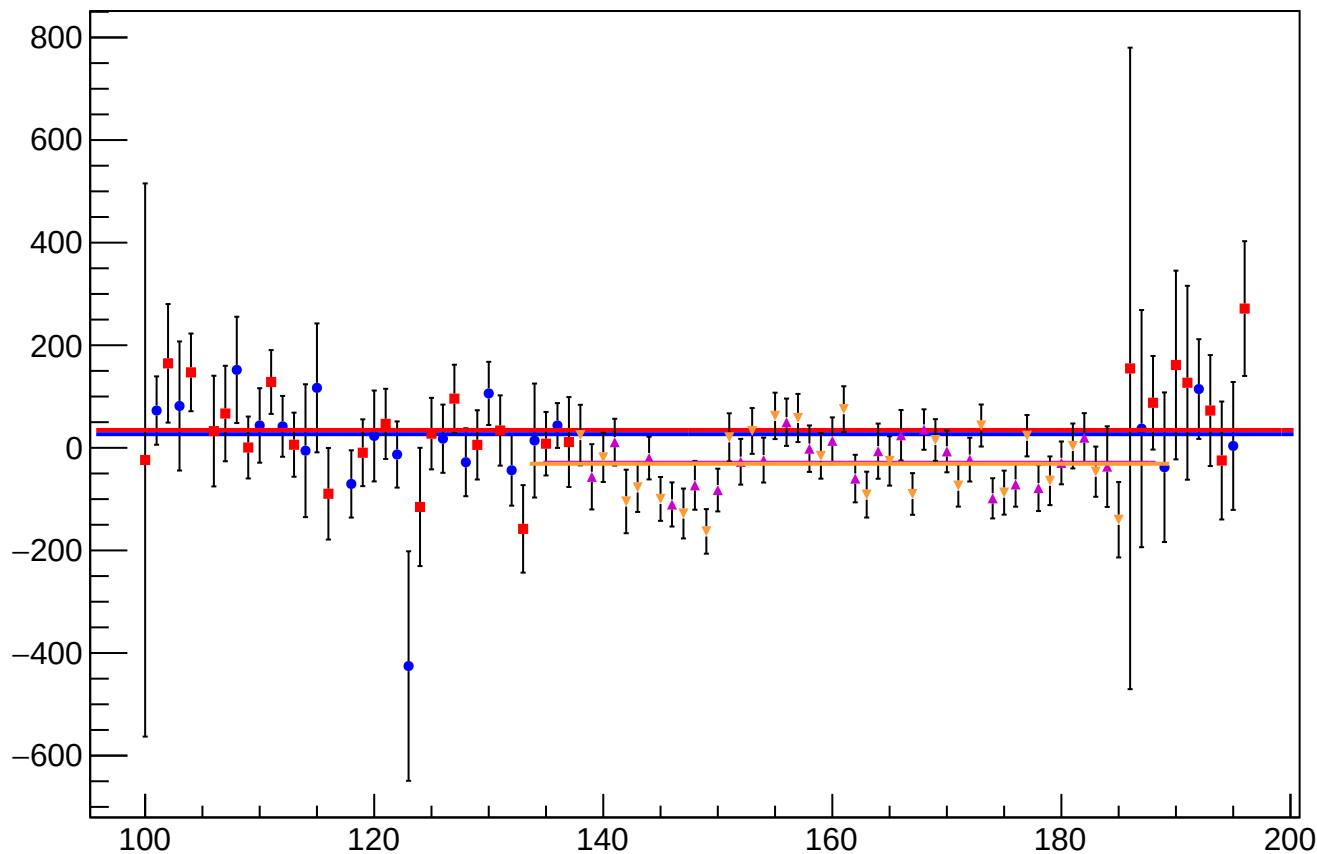
Right: 516.329+/-0.085 χ^2/NDF : 3797693.2/46

In: 368.345+/-0.052 χ^2/NDF : 3306181.8/43

Out: 375.798+/-0.051 χ^2/NDF : 4814186.9/50

All: 372.183+/-0.037 χ^2/NDF : 8130768.8/94

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 26.578 ± 17.234 $\chi^2/\text{NDF}: 14.1/20$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 34.829 ± 16.465 $\chi^2/\text{NDF}: 21.7/25$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

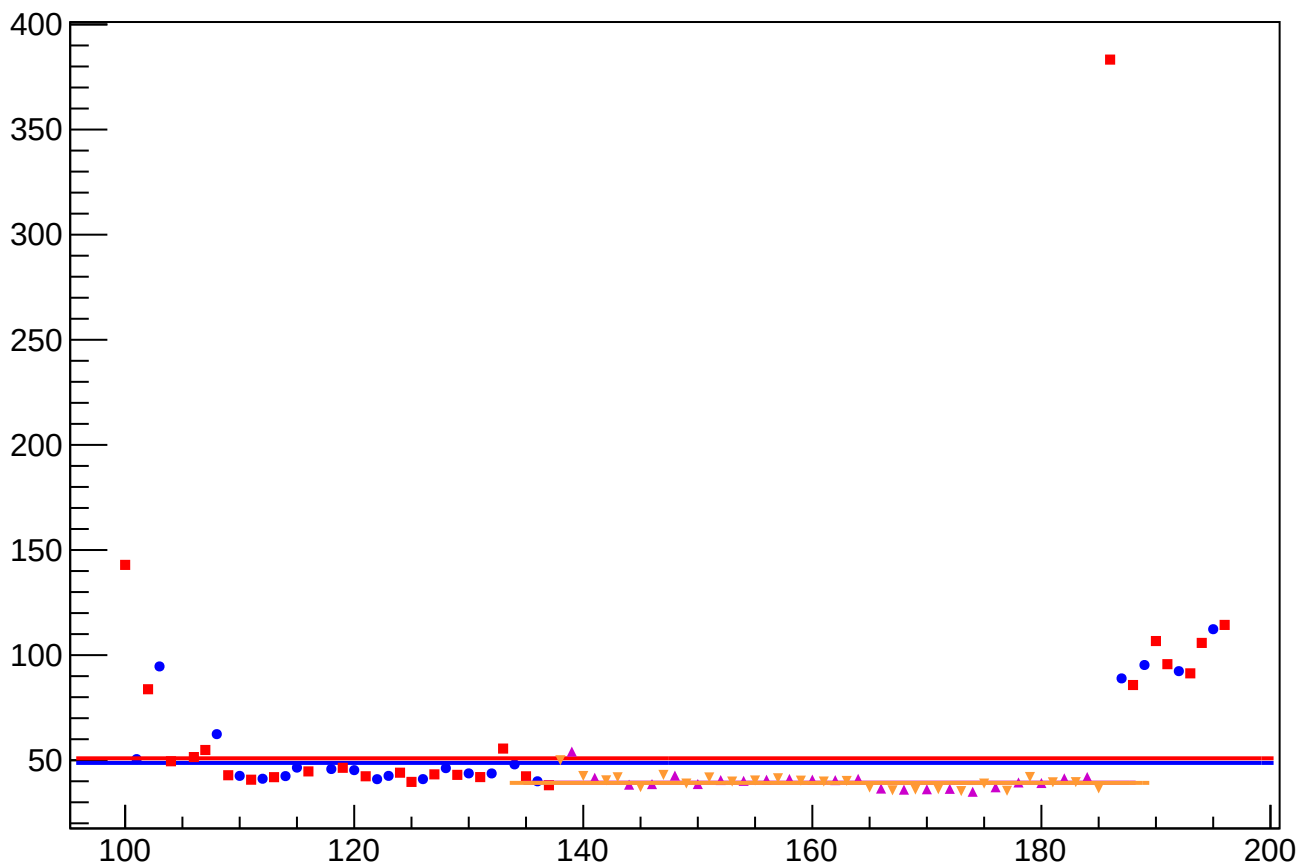
Right: 30.891 ± 11.905 $\chi^2/\text{NDF}: 35.9/46$

In: -16.196 ± 8.286 $\chi^2/\text{NDF}: 44.6/43$

Out: -15.465 ± 8.011 $\chi^2/\text{NDF}: 86.5/50$

All: -15.818 ± 5.759 $\chi^2/\text{NDF}: 131.0/94$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 48.732 $\pm$ 0.012 χ^2 /NDF: 1713189.8/20

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 50.914 $\pm$ 0.012 χ^2 /NDF: 2993470.0/25

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

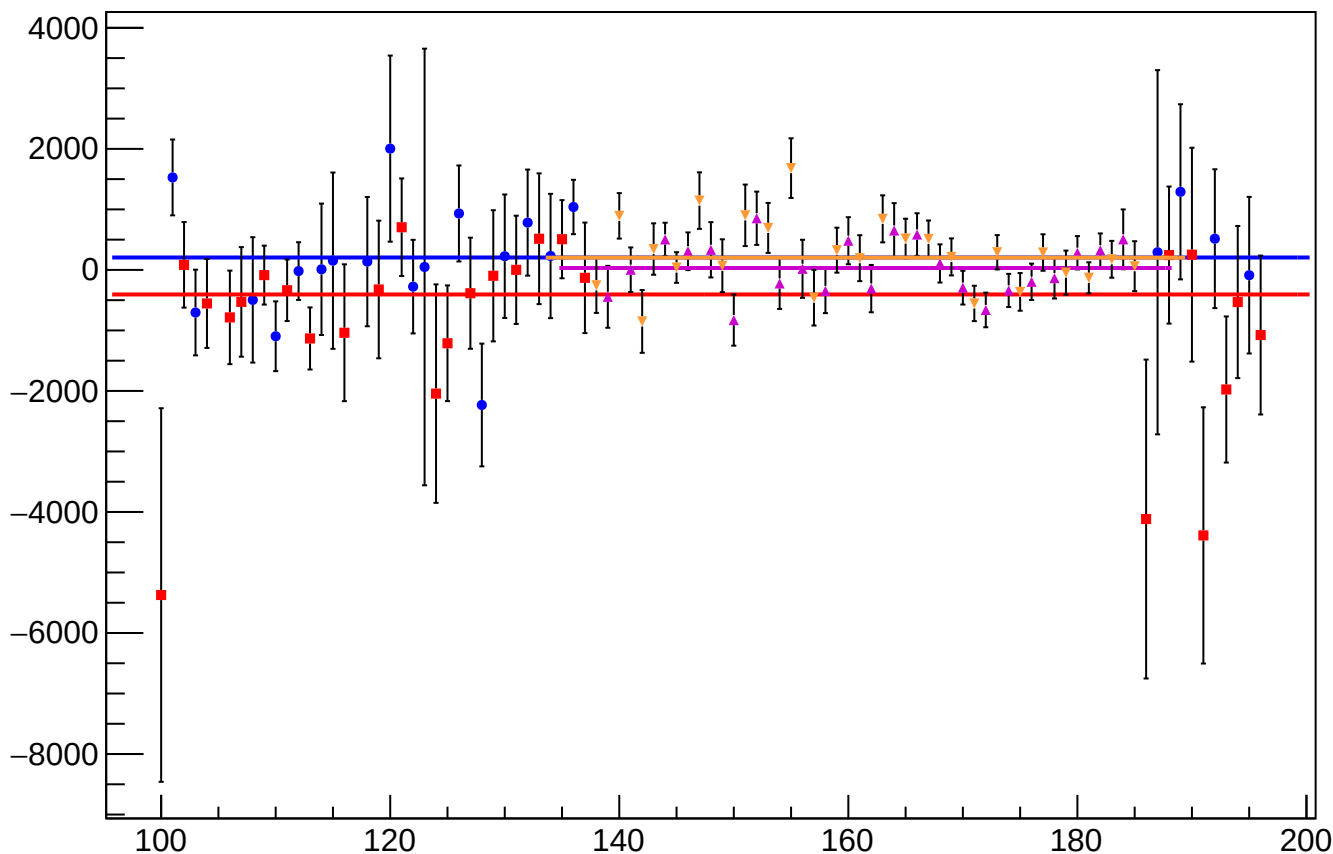
Right: 49.873 $\pm$ 0.008 χ^2 /NDF: 4723431.5/46

In: 41.510 $\pm$ 0.006 χ^2 /NDF: 2385675.8/43

Out: 42.000 $\pm$ 0.006 χ^2 /NDF: 3963491.7/50

All: 41.763 $\pm$ 0.004 χ^2 /NDF: 6352786.4/94

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 205.134 $\pm$ 182.798 χ^2 /NDF: 24.9/20

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -405.714 $\pm$ 170.657 χ^2 /NDF: 20.6/25

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

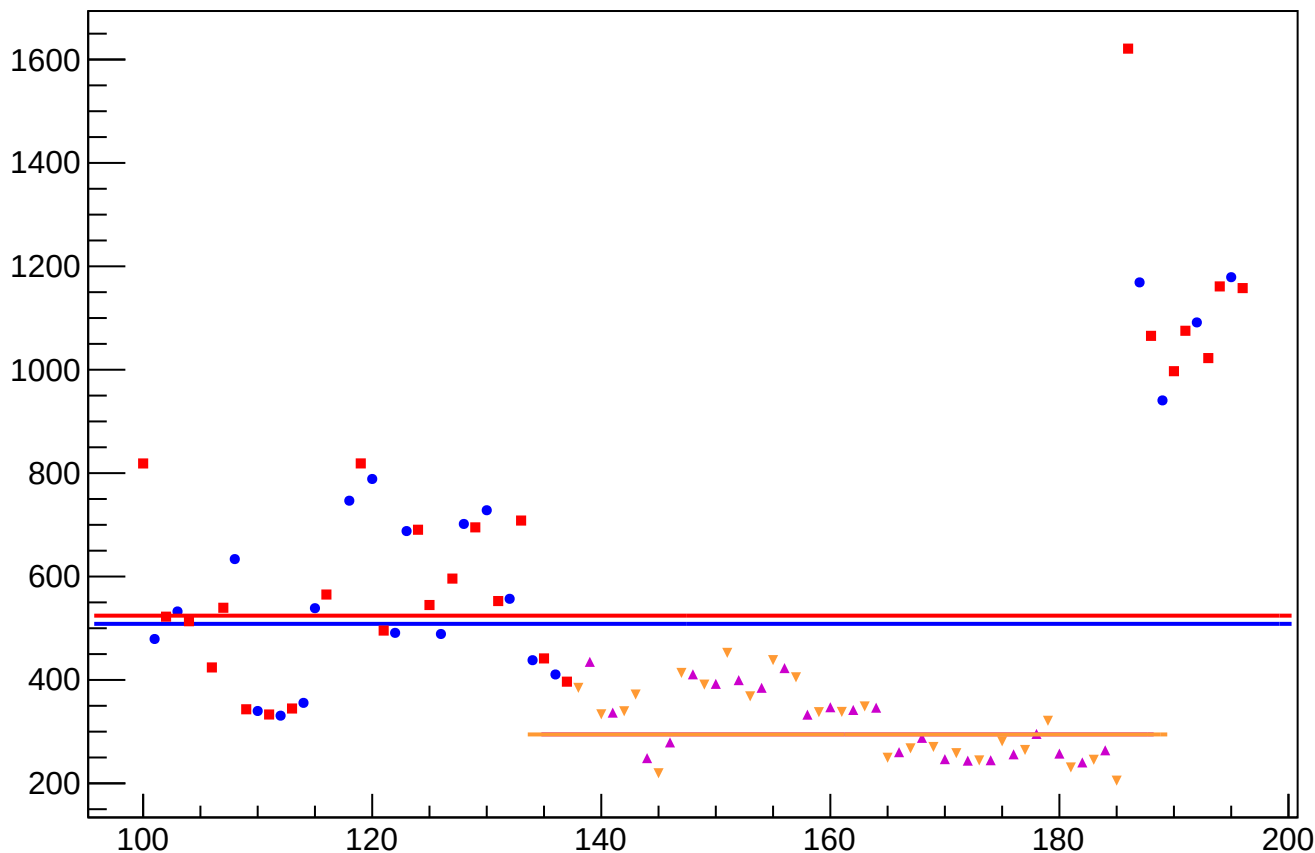
Right: -121.248 $\pm$ 124.744 χ^2 /NDF: 51.5/46

In: 54.918 $\pm$ 67.071 χ^2 /NDF:59.0/43

Out: 113.882 $\pm$ 65.100 χ^2 /NDF:76.3/50

All: 85.279 $\pm$ 46.714 χ^2 /NDF: 135.7/94

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 508.487 $\pm$ 0.129 χ^2/NDF : 2301818.8/20

Left Out: 294.591 $\pm$ 0.050 χ^2/NDF :1680474.5/24

Right Out: 524.347 $\pm$ 0.121 χ^2/NDF : 3609263.9/25

Left In: 294.722 $\pm$ 0.051 χ^2/NDF :1297310.3/22

Left: 294.655 $\pm$ 0.036 χ^2/NDF : 2977788.1/47

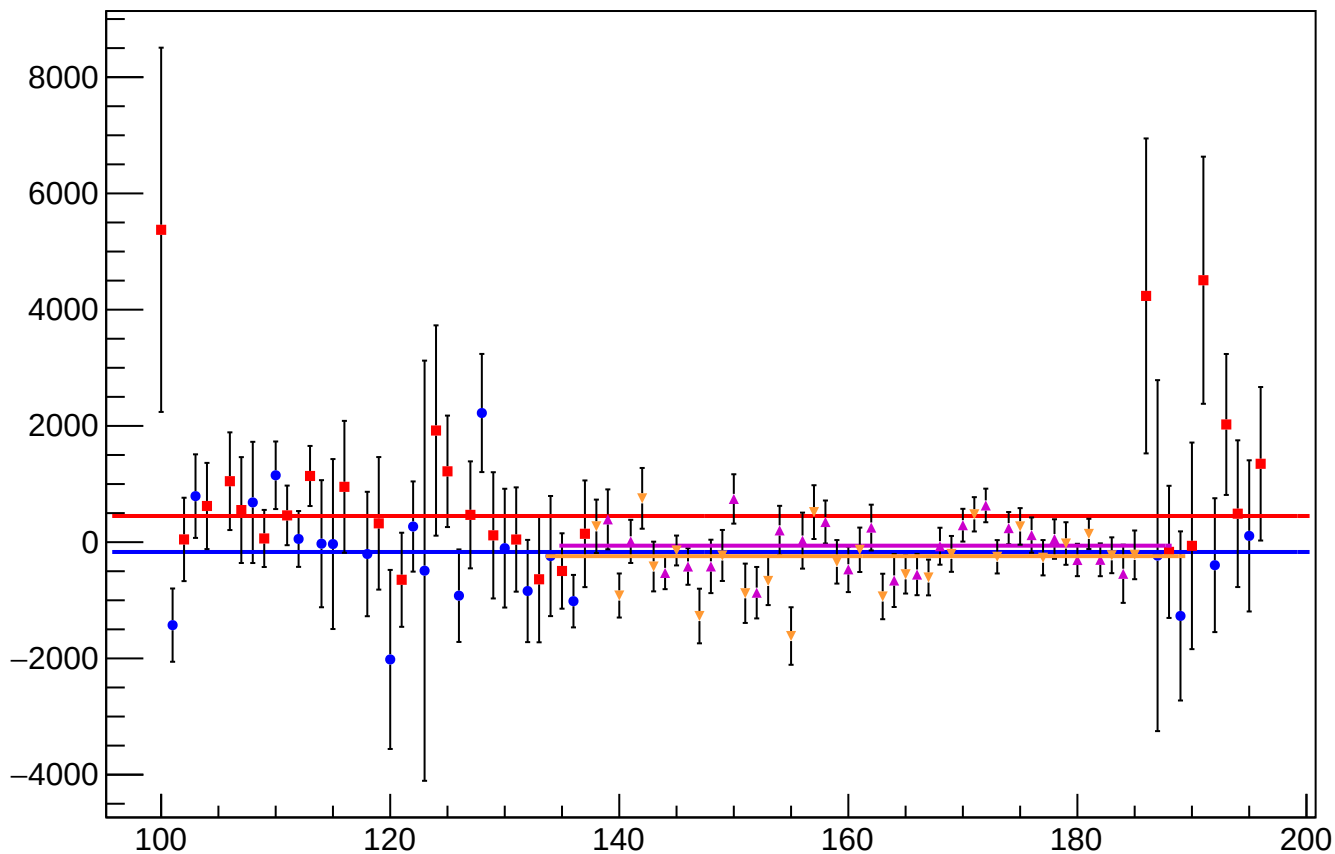
Right: 516.961 $\pm$ 0.088 χ^2/NDF : 5919127.6/46

In: 323.500 $\pm$ 0.047 χ^2/NDF :5965938.2/43

Out: 328.025 $\pm$ 0.046 χ^2/NDF :8387286.5/50

All: 325.830 $\pm$ 0.033 χ^2/NDF : 14357911.9/94

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -168.824 ± 183.911 $\chi^2/\text{NDF}: 24.8/20$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 450.338 ± 172.362 $\chi^2/\text{NDF}: 20.8/25$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

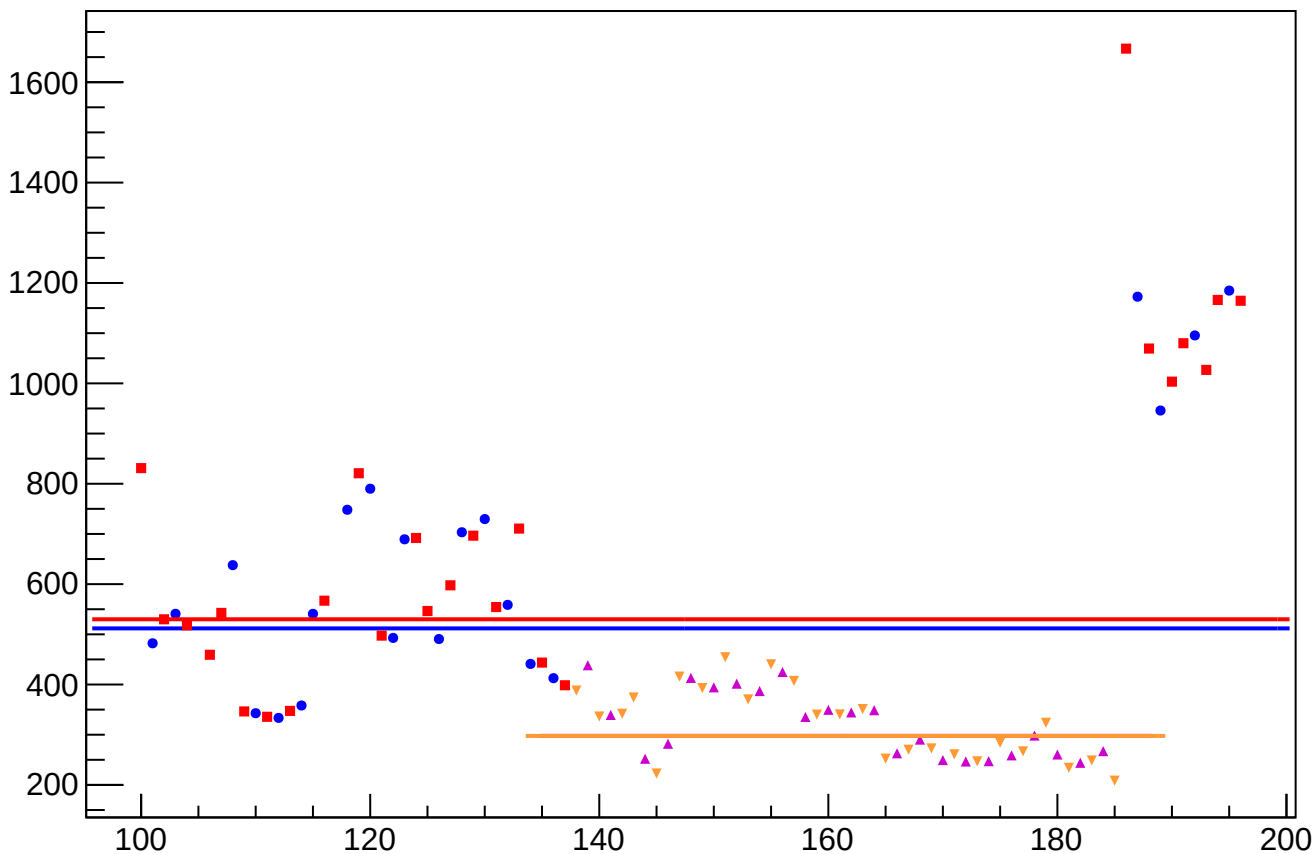
Right: 160.806 ± 125.763 $\chi^2/\text{NDF}: 51.6/46$

In: -75.023 ± 67.680 $\chi^2/\text{NDF}: 56.0/43$

Out: -139.918 ± 65.728 $\chi^2/\text{NDF}: 77.4/50$

All: -108.420 ± 47.152 $\chi^2/\text{NDF}: 133.9/94$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 511.817 $\pm$ 0.130 χ^2/NDF : 2288394.9/20

Left Out: 297.613 $\pm$ 0.050 χ^2/NDF :1637757.8/24

Right Out: 529.984 $\pm$ 0.122 χ^2/NDF : 3577115.1/25

Left In: 297.699 $\pm$ 0.051 χ^2/NDF :1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2/NDF : 2904065.4/47

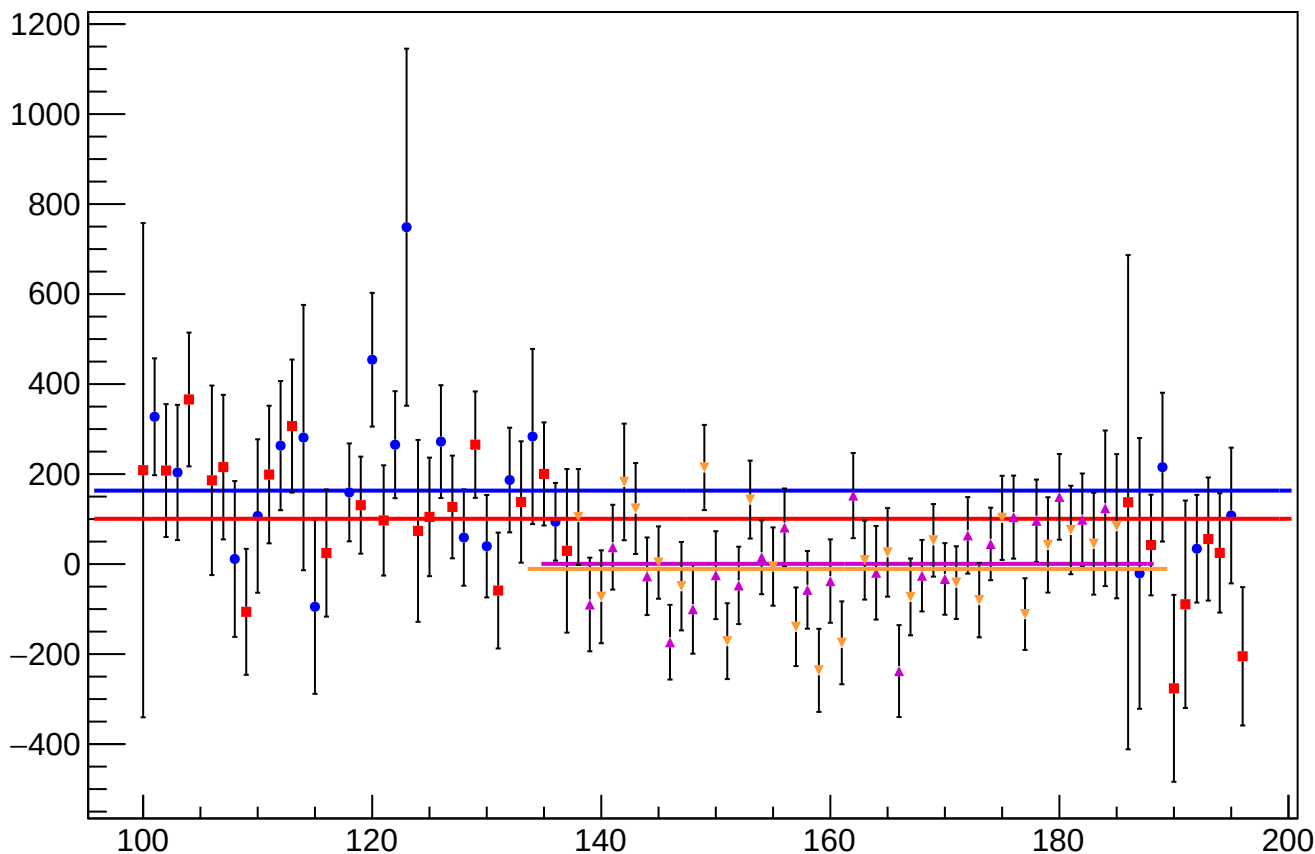
Right: 521.489 $\pm$ 0.089 χ^2/NDF : 5875899.7/46

In: 326.696 $\pm$ 0.048 χ^2/NDF :5898515.1/43

Out: 331.403 $\pm$ 0.046 χ^2/NDF :8321321.3/50

All: 329.119 $\pm$ 0.033 χ^2/NDF : 14224814.3/94

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 163.293 $\pm$ 30.302 χ^2 /NDF: 17.4/20

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 100.730 $\pm$ 28.534 χ^2 /NDF: 22.5/25

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

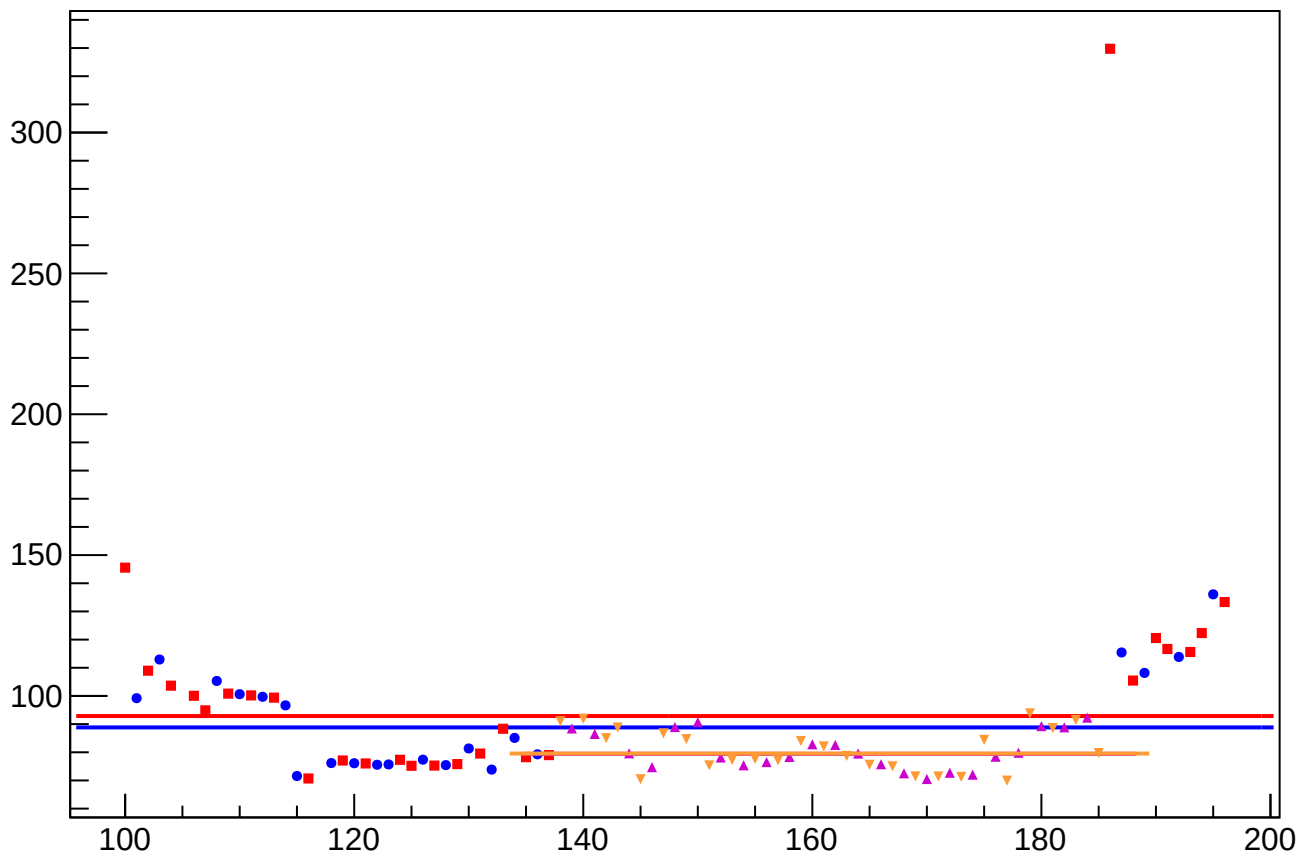
Right: 130.133 $\pm$ 20.773 χ^2 /NDF: 42.2/46

In: 46.812 $\pm$ 16.153 χ^2 /NDF:61.8/43

Out: 22.576 $\pm$ 15.588 χ^2 /NDF:69.5/50

All: 34.263 $\pm$ 11.217 χ^2 /NDF: 132.6/94

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 88.825 ± 0.021 $\chi^2/\text{NDF}: 631299.0/20$

Left Out: 79.551 ± 0.013 $\chi^2/\text{NDF}: 309075.2/24$

Right Out: 92.866 ± 0.020 $\chi^2/\text{NDF}: 1152041.3/25$

Left In: 79.436 ± 0.013 $\chi^2/\text{NDF}: 212440.1/22$

Left: 79.495 ± 0.009 $\chi^2/\text{NDF}: 521552.2/47$

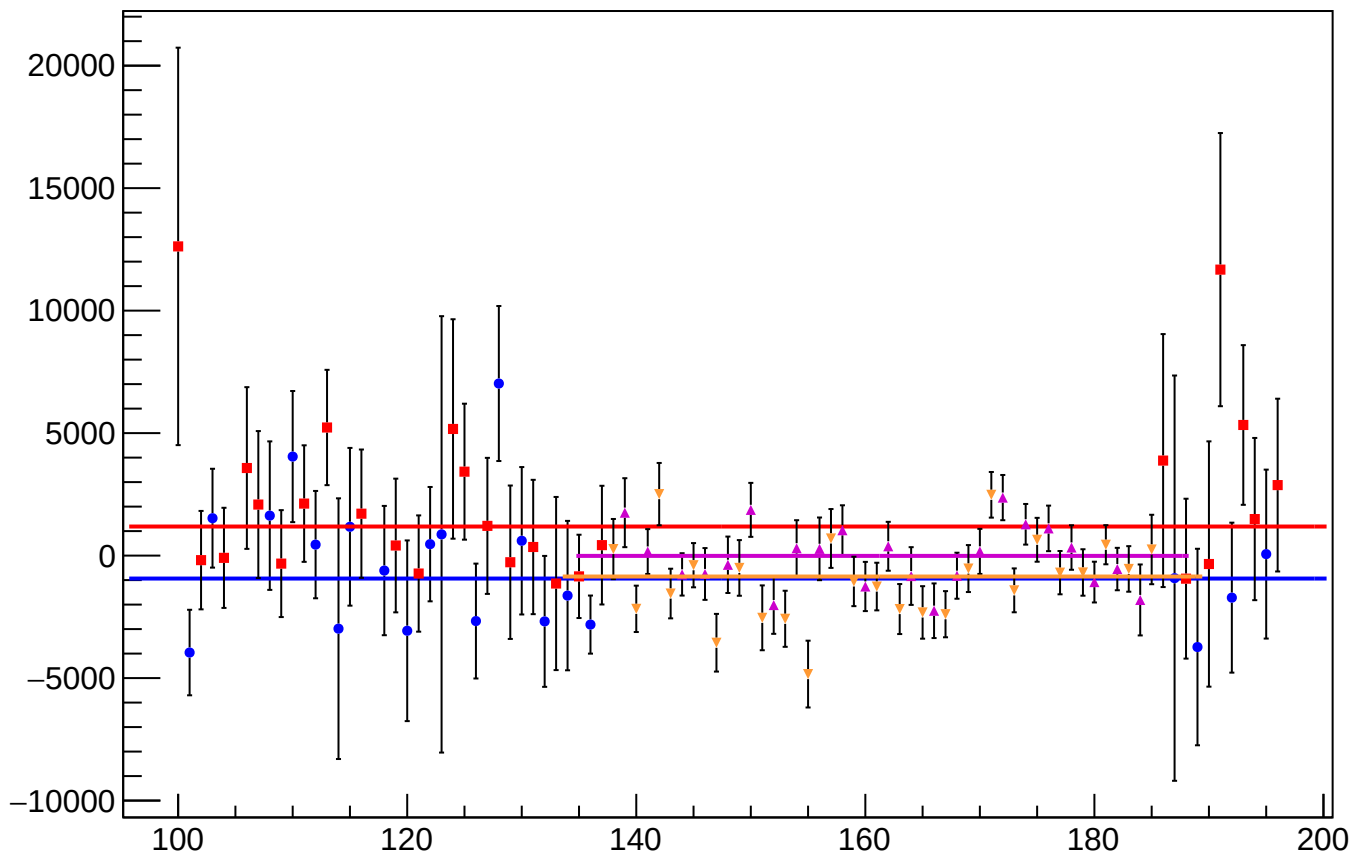
Right: 90.967 ± 0.015 $\chi^2/\text{NDF}: 1802190.4/46$

In: 82.104 ± 0.011 $\chi^2/\text{NDF}: 981190.0/43$

Out: 83.525 ± 0.011 $\chi^2/\text{NDF}: 1766663.2/50$

All: 82.840 ± 0.008 $\chi^2/\text{NDF}: 2755859.1/94$

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -936.770 ± 559.488 $\chi^2/\text{NDF}: 21.2/20$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1186.985 ± 547.160 $\chi^2/\text{NDF}: 17.7/25$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

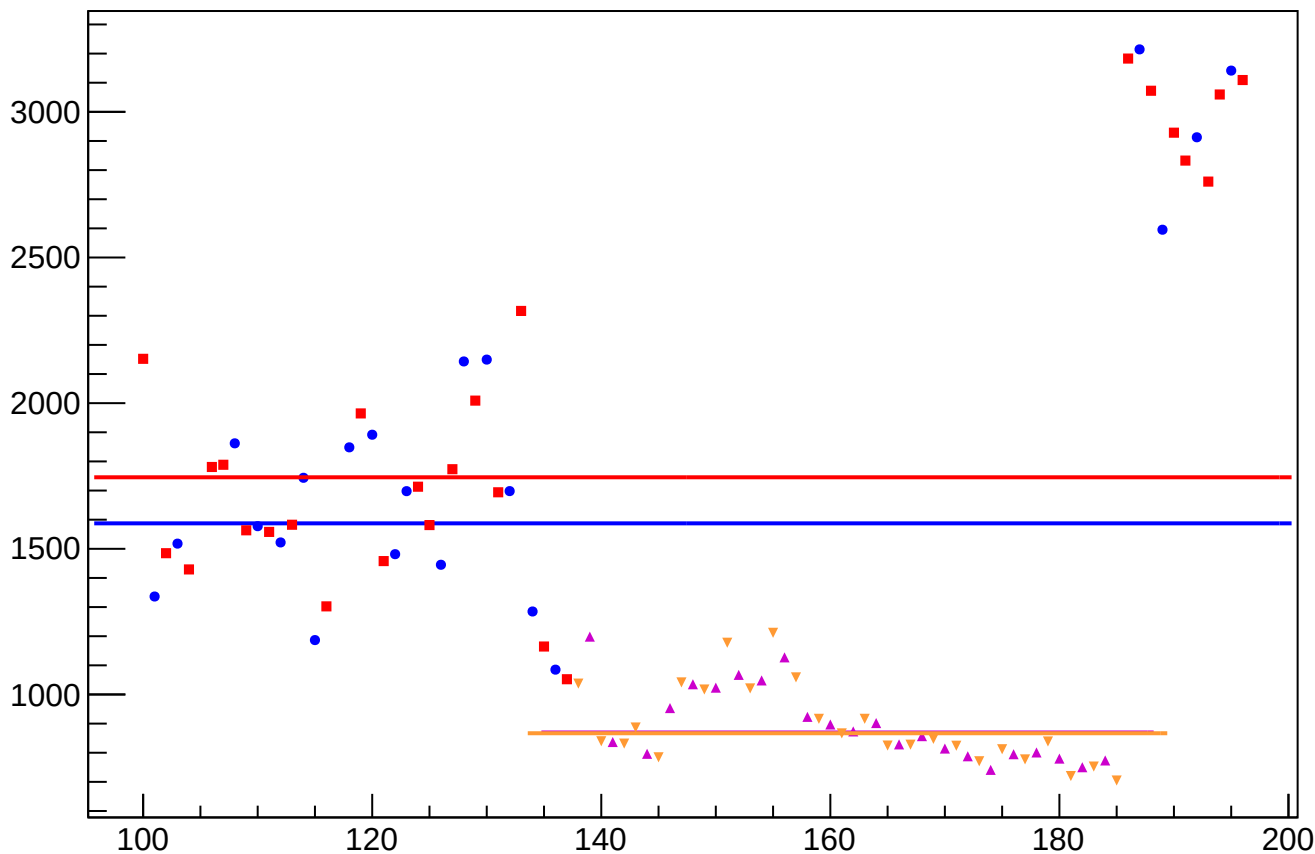
Right: 148.764 ± 391.186 $\chi^2/\text{NDF}: 46.2/46$

In: -125.991 ± 196.667 $\chi^2/\text{NDF}: 54.8/43$

Out: -604.837 ± 191.221 $\chi^2/\text{NDF}: 85.9/50$

All: -372.135 ± 137.099 $\chi^2/\text{NDF}: 143.7/94$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1587.426 $\pm$ 0.396 χ^2 /NDF: 1638034.3/20

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1745.542 $\pm$ 0.387 χ^2 /NDF: 2175625.5/25

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

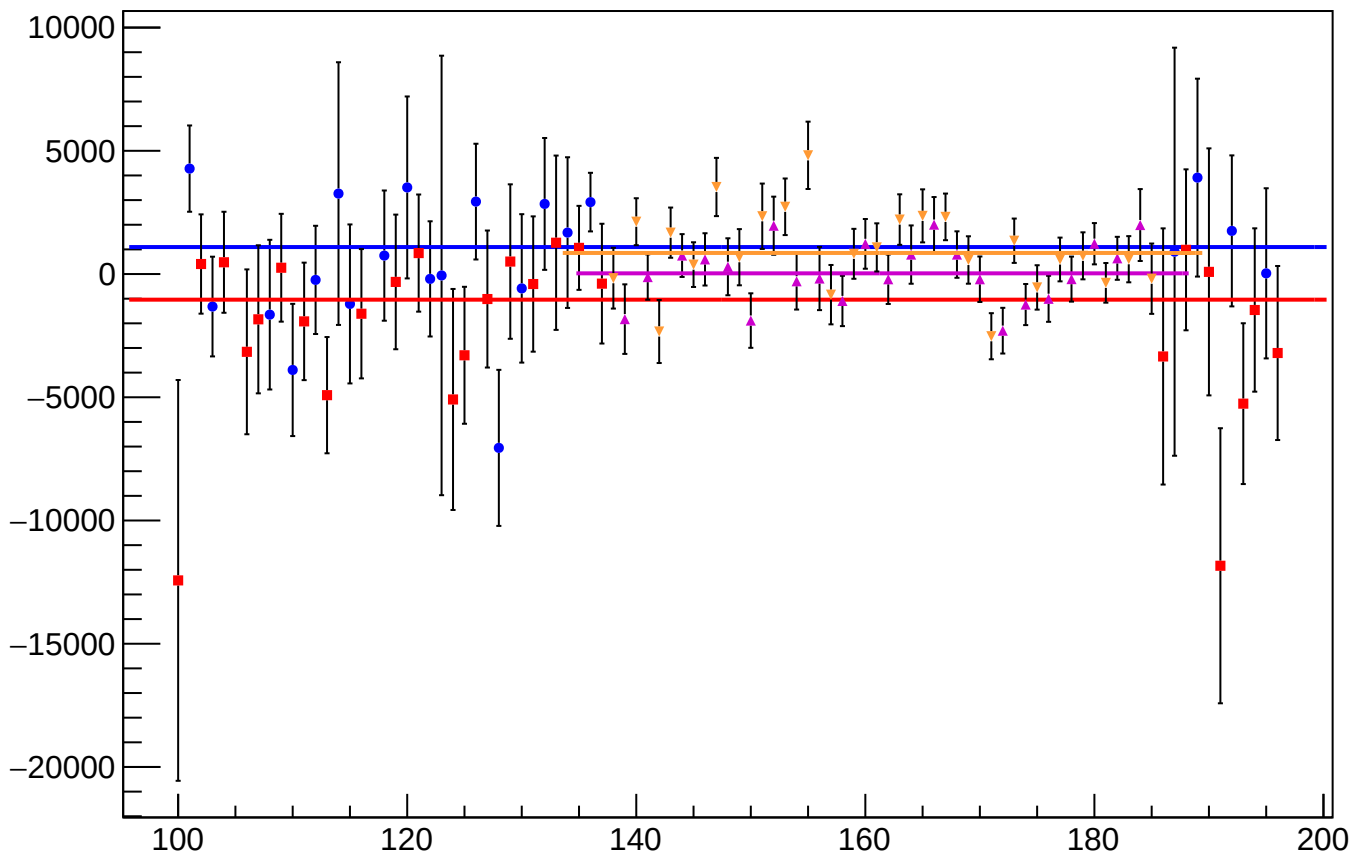
Right: 1668.245 $\pm$ 0.277 χ^2 /NDF: 3895306.1/46

In: 958.268 $\pm$ 0.139 χ^2 /NDF: 5106003.1/43

Out: 974.208 $\pm$ 0.135 χ^2 /NDF: 7364847.4/50

All: 966.461 $\pm$ 0.097 χ^2 /NDF: 12477604.0/94

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1094.781 $\pm$ 560.593 χ^2 /NDF: 21.8/20

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1039.919 $\pm$ 548.315 χ^2 /NDF: 17.7/25

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

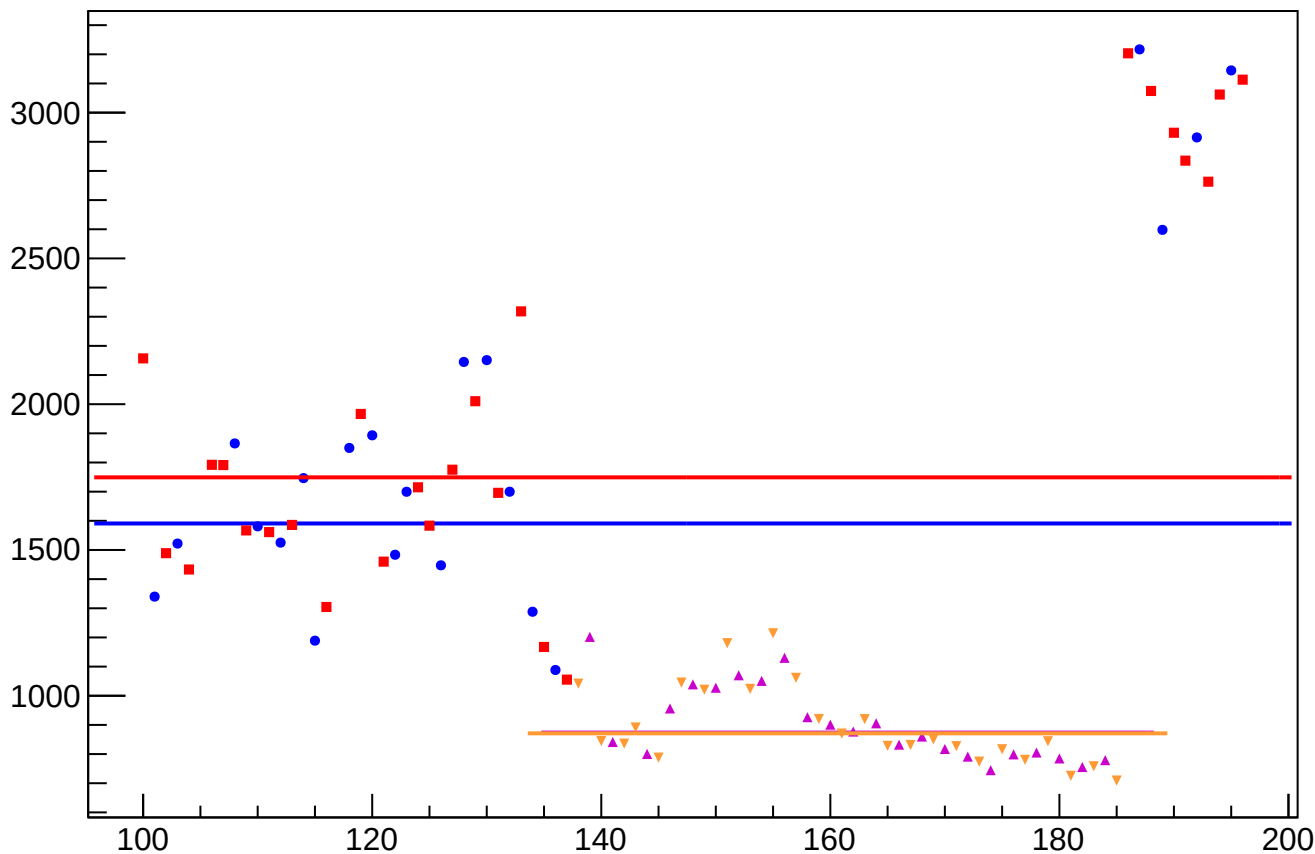
Right: 3.800 $\pm$ 391.986 χ^2 /NDF: 46.9/46

In: 160.896 $\pm$ 197.503 χ^2 /NDF:54.7/43

Out: 623.100 $\pm$ 192.057 χ^2 /NDF:82.2/50

All: 398.458 $\pm$ 137.690 χ^2 /NDF: 139.8/94

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1590.910 +/- 0.396 χ^2/NDF : 1631577.1/20

Left Out: 871.109 +/- 0.145 χ^2/NDF : 651751.1/24

Right Out: 1749.098 +/- 0.388 χ^2/NDF : 2171005.3/25

Left In: 873.675 +/- 0.149 χ^2/NDF : 573822.5/22

Left: 872.355 +/- 0.104 χ^2/NDF : 1225725.6/47

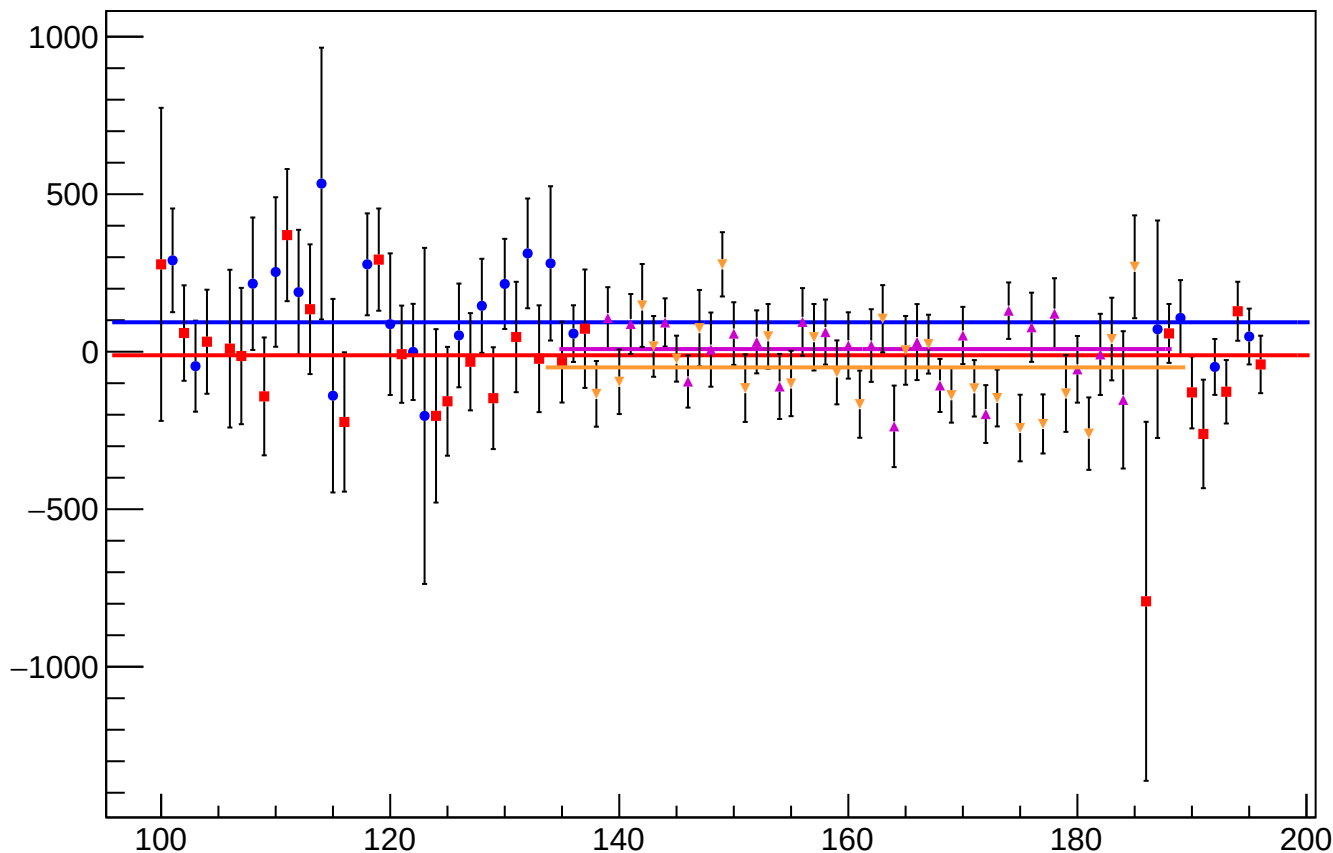
Right: 1671.755 +/- 0.277 χ^2/NDF : 3883971.1/46

In: 962.700 +/- 0.140 χ^2/NDF : 5072881.7/43

Out: 978.827 +/- 0.136 χ^2/NDF : 7321608.0/50

All: 970.989 +/- 0.097 χ^2/NDF : 12401343.3/94

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 93.426 $\pm$ 33.196 χ^2 /NDF: 13.0/20

Left Out: -49.717 $\pm$ 20.580 χ^2 /NDF:39.4/24

Right Out: -11.311 $\pm$ 29.605 χ^2 /NDF: 20.9/25

Left In: 8.343 $\pm$ 21.271 χ^2 /NDF:22.0/22

Left: -21.646 $\pm$ 14.791 χ^2 /NDF: 65.3/47

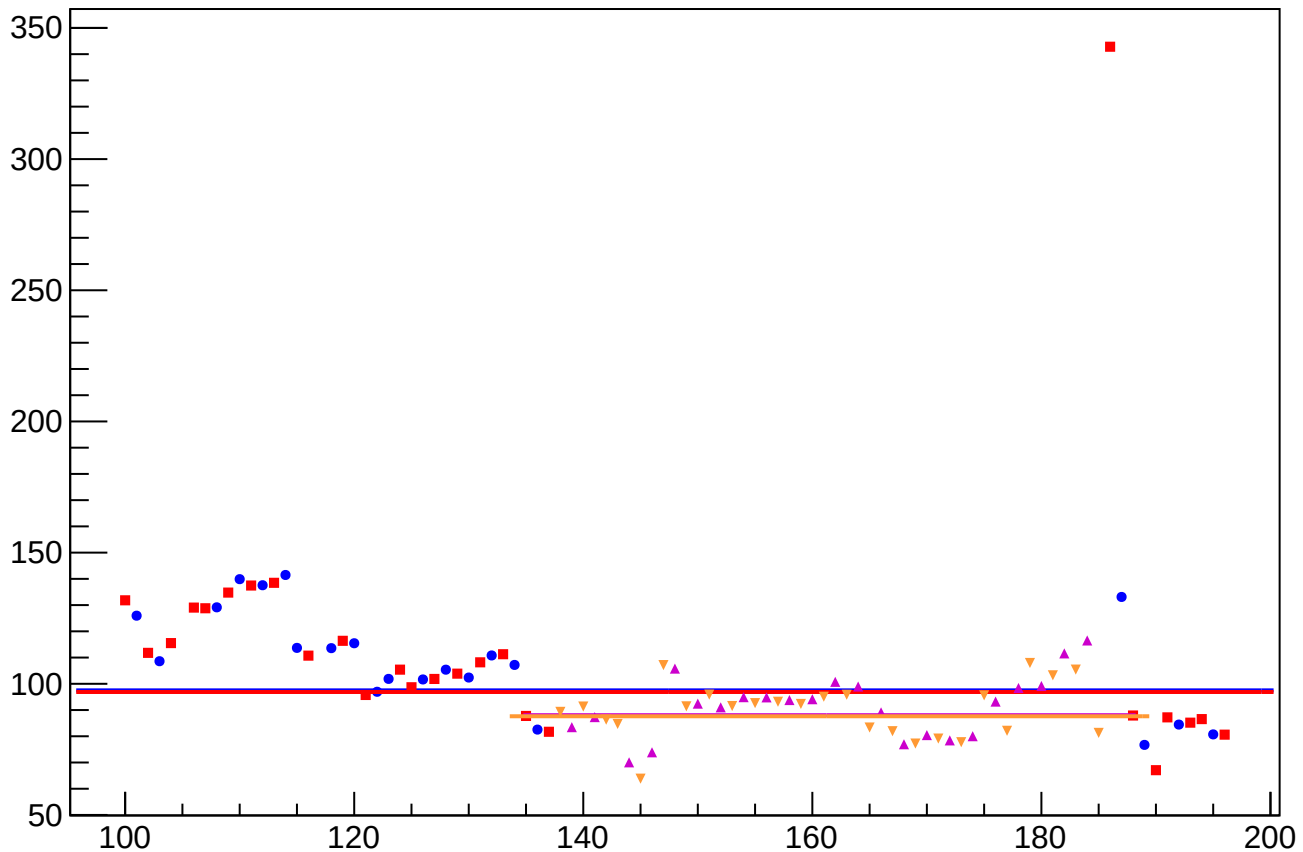
Right: 35.088 $\pm$ 22.095 χ^2 /NDF: 39.5/46

In: 33.108 $\pm$ 17.910 χ^2 /NDF:39.7/43

Out: -37.204 $\pm$ 16.898 χ^2 /NDF:61.4/50

All: -4.090 $\pm$ 12.291 χ^2 /NDF: 109.3/94

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 97.497 $\pm$ 0.023 χ^2 /NDF: 597451.9/20

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 96.881 $\pm$ 0.021 χ^2 /NDF: 1108894.8/25

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

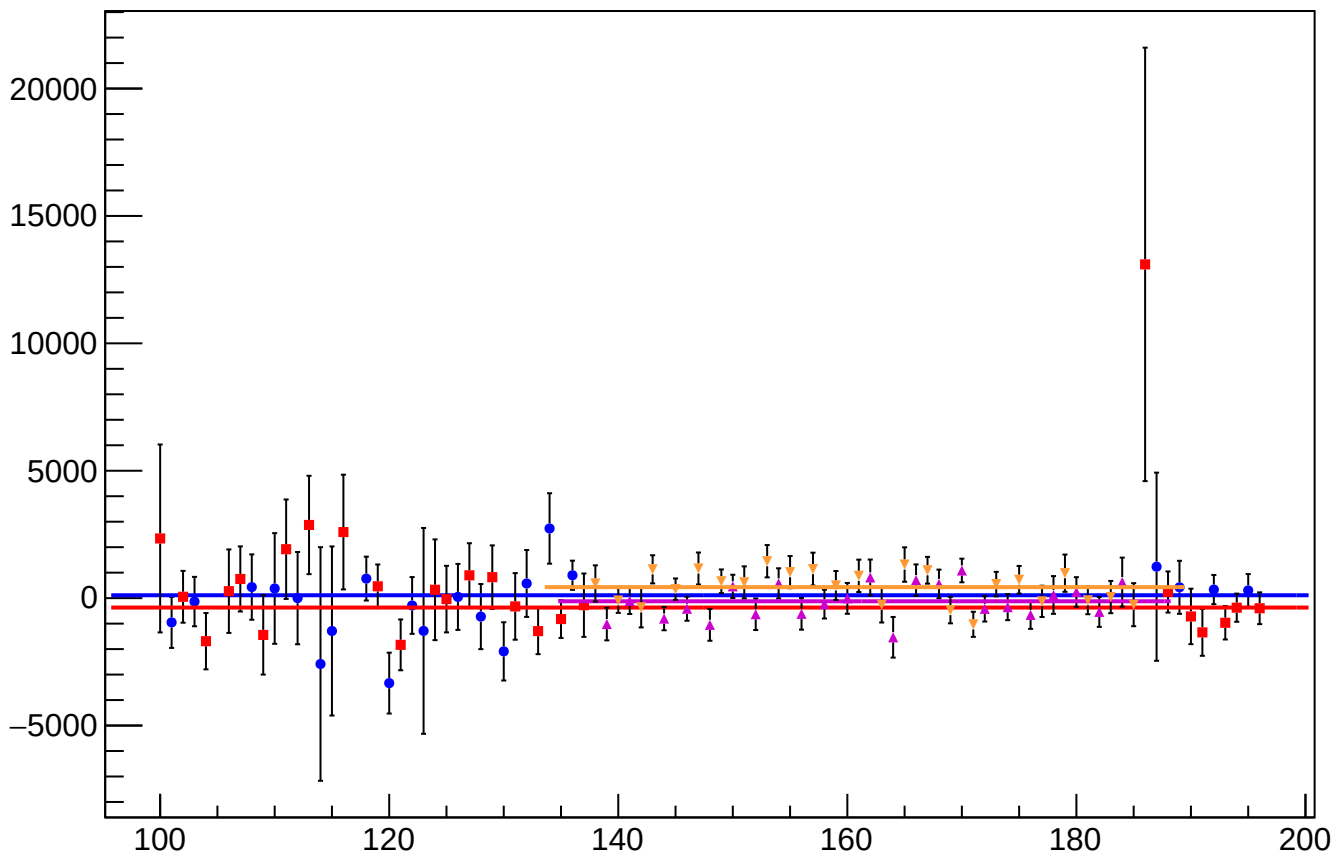
Right: 97.154 $\pm$ 0.016 χ^2 /NDF: 1706730.7/46

In: 90.787 $\pm$ 0.013 χ^2 /NDF: 1236421.1/43

Out: 90.641 $\pm$ 0.012 χ^2 /NDF: 1795368.1/50

All: 90.710 $\pm$ 0.009 χ^2 /NDF: 3031859.8/94

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 113.061 $\pm$ 230.484 χ^2 /NDF: 21.1/20

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -369.431 $\pm$ 202.060 χ^2 /NDF: 21.2/25

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

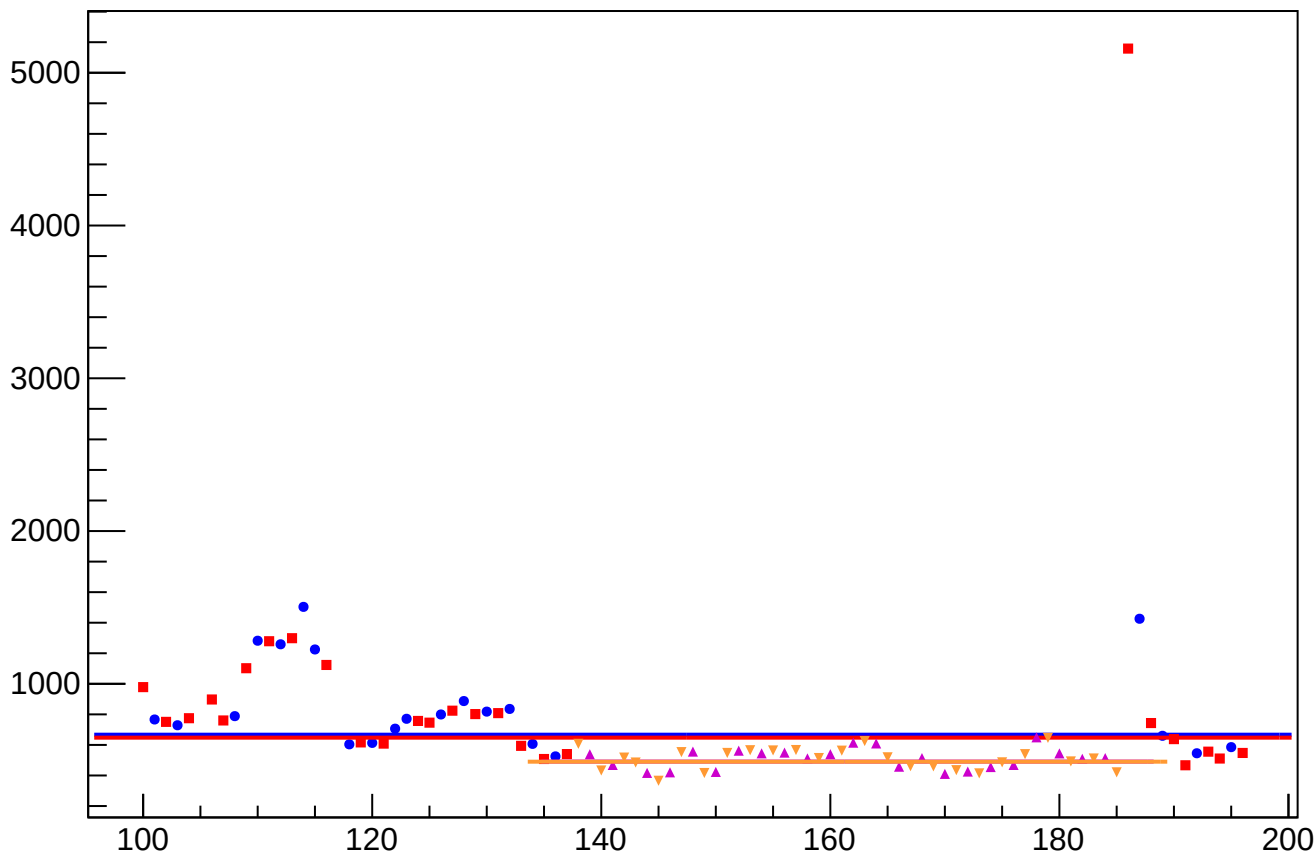
Right: -159.755 $\pm$ 151.939 χ^2 /NDF: 44.8/46

In: -73.429 $\pm$ 105.632 χ^2 /NDF:51.2/43

Out: 233.841 $\pm$ 100.409 χ^2 /NDF:63.5/50

All: 87.991 $\pm$ 72.776 χ^2 /NDF: 119.2/94

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 667.030 $\pm$ 0.163 χ^2 /NDF: 1043160.9/20

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 647.572 $\pm$ 0.143 χ^2 /NDF: 1919080.6/25

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

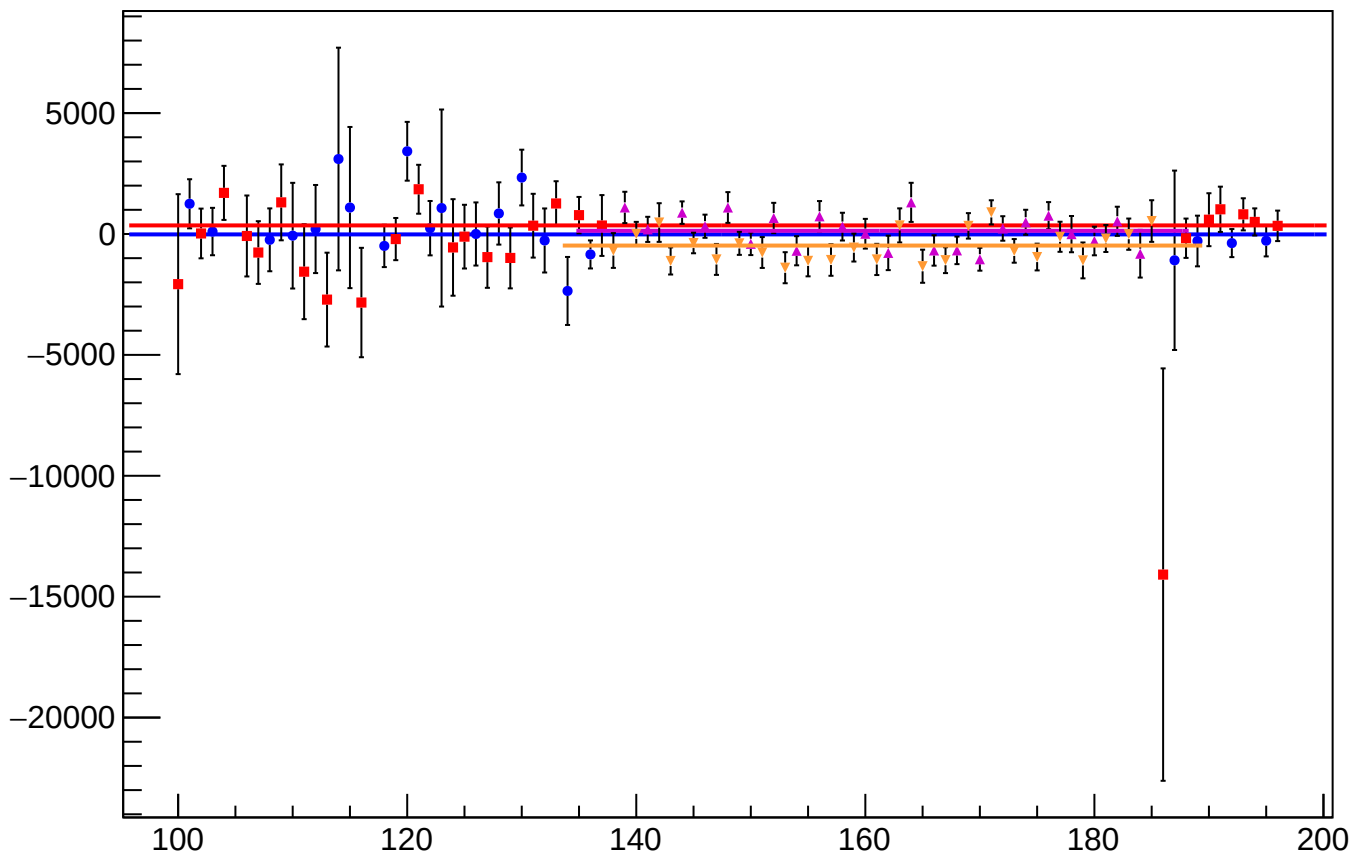
Right: 656.028 $\pm$ 0.107 χ^2 /NDF: 2970300.8/46

In: 527.903 $\pm$ 0.075 χ^2 /NDF: 2554903.2/43

Out: 529.111 $\pm$ 0.071 χ^2 /NDF: 3582192.3/50

All: 528.538 $\pm$ 0.051 χ^2 /NDF: 6137233.0/94

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -17.063 ± 233.168 $\chi^2/\text{NDF}: 20.8/20$

Left Out: -478.197 ± 117.659 $\chi^2/\text{NDF}: 27.8/24$

Right Out: 354.873 ± 204.604 $\chi^2/\text{NDF}: 19.4/25$

Left In: 132.543 ± 120.866 $\chi^2/\text{NDF}: 29.5/22$

Left: -181.037 ± 84.308 $\chi^2/\text{NDF}: 70.5/47$

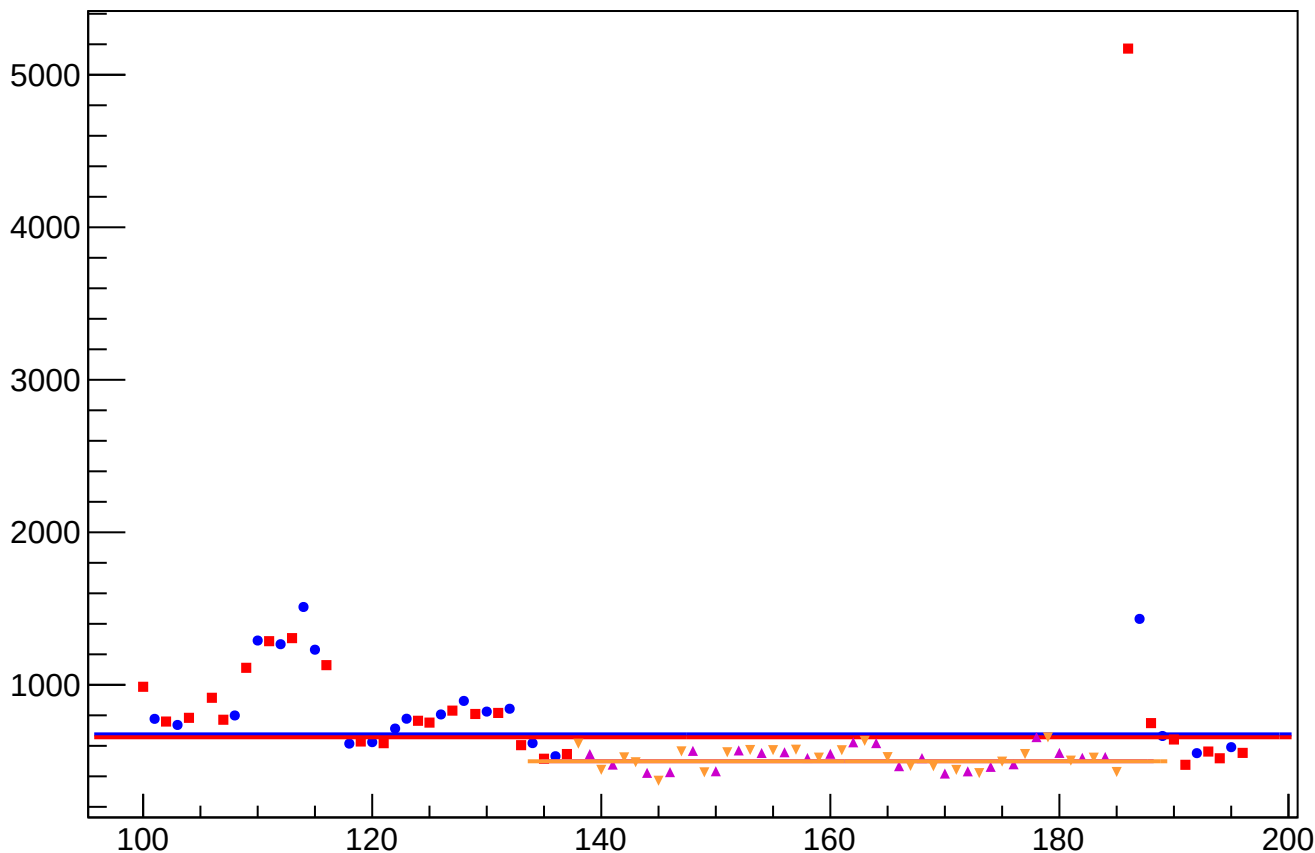
Right: 193.071 ± 153.790 $\chi^2/\text{NDF}: 41.6/46$

In: 100.858 ± 107.306 $\chi^2/\text{NDF}: 50.6/43$

Out: -271.170 ± 101.997 $\chi^2/\text{NDF}: 59.7/50$

All: -94.587 ± 73.928 $\chi^2/\text{NDF}: 116.6/94$

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 675.142 $\pm$ 0.165 χ^2 /NDF: 1029442.8/20

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 656.141 $\pm$ 0.145 χ^2 /NDF: 1895839.5/25

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

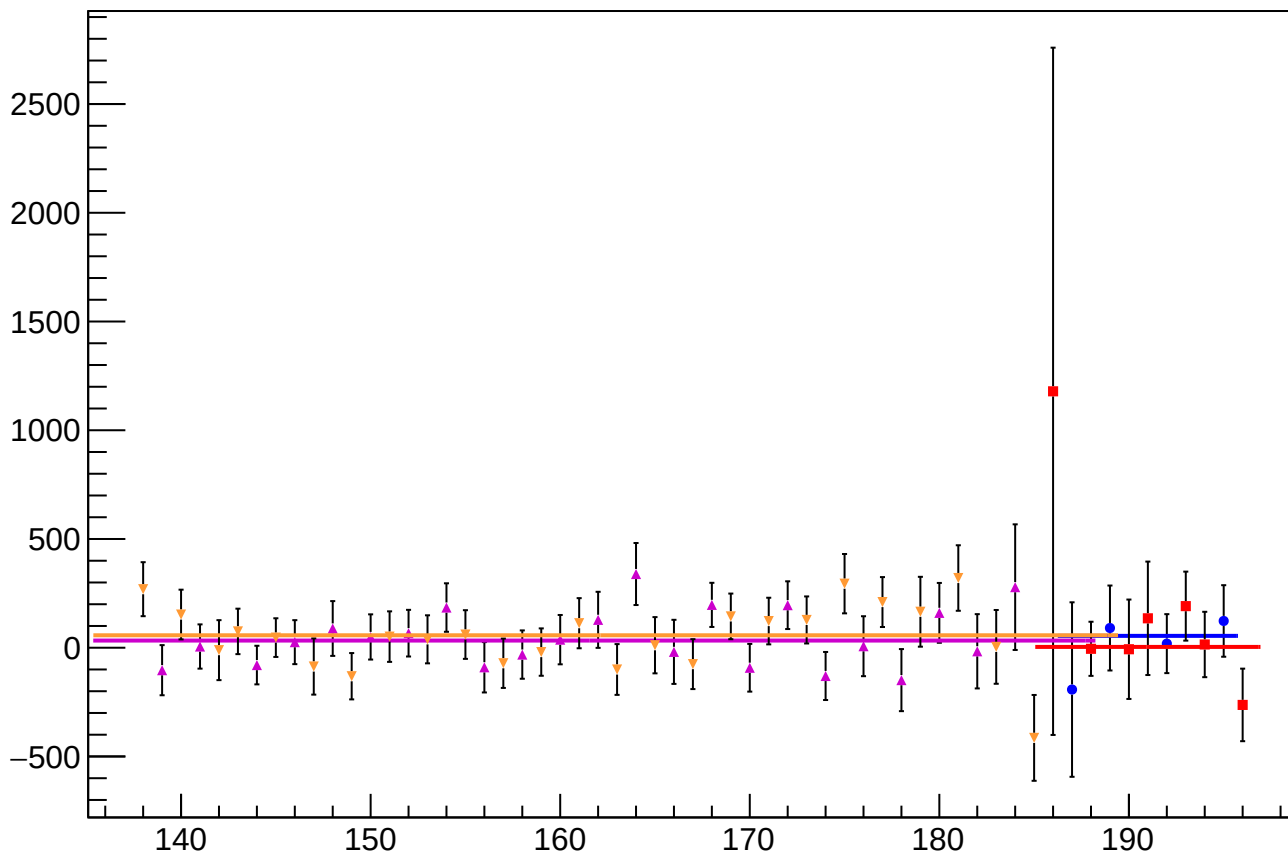
Right: 664.407 $\pm$ 0.109 χ^2 /NDF: 2932785.3/46

In: 536.615 $\pm$ 0.076 χ^2 /NDF: 2501585.7/43

Out: 537.867 $\pm$ 0.072 χ^2 /NDF: 3519475.7/50

All: 537.273 $\pm$ 0.052 χ^2 /NDF: 6021204.3/94

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 54.540 $\pm$ 89.876 χ^2 /NDF: 0.7/3

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: 3.724 $\pm$ 67.609 χ^2 /NDF: 4.8/6

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

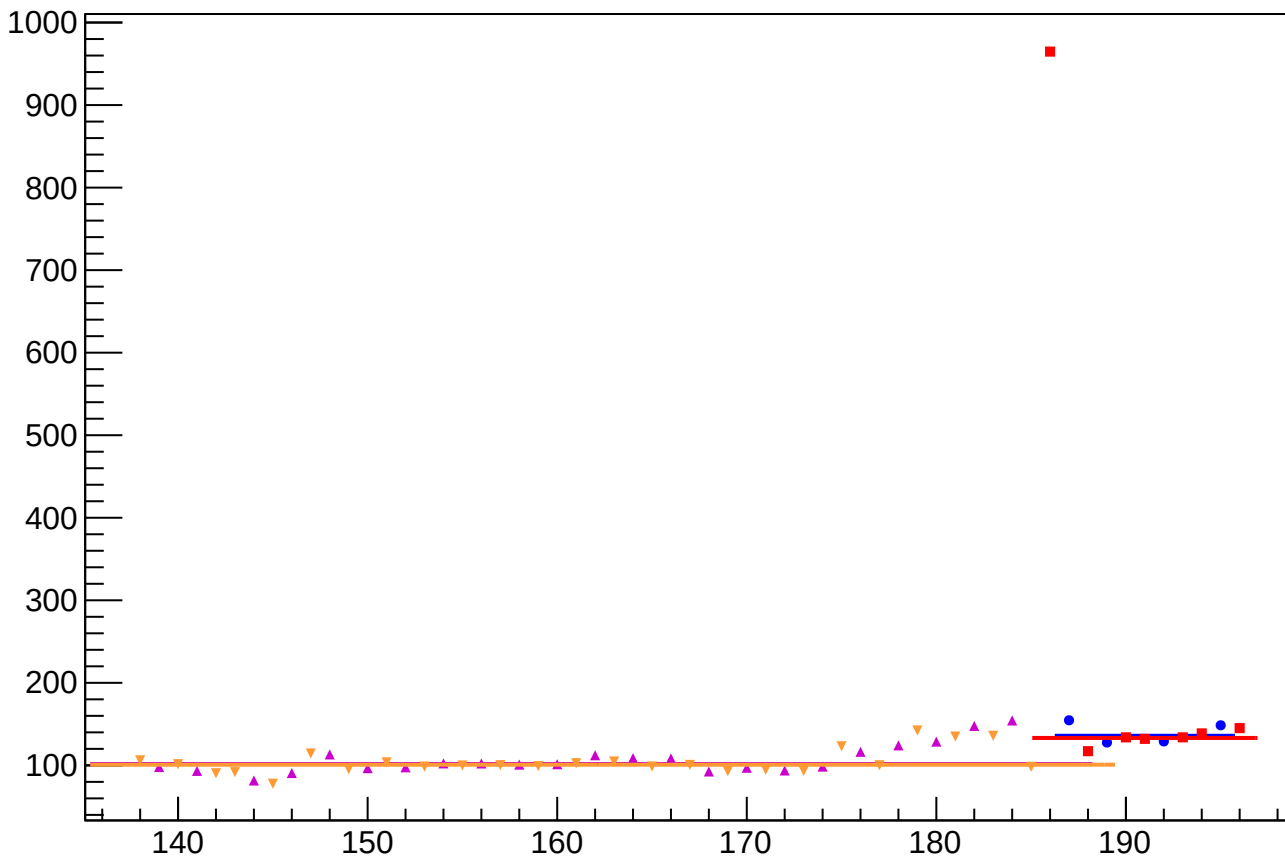
Right: 22.088 $\pm$ 54.029 χ^2 /NDF: 5.6/10

In: 34.452 $\pm$ 23.716 χ^2 /NDF:24.3/26

Out: 51.351 $\pm$ 22.377 χ^2 /NDF:34.5/31

All: 43.392 $\pm$ 16.276 χ^2 /NDF: 59.1/58

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 135.840 $\pm$ 0.064 χ^2 /NDF: 24926.6/3

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 133.210 $\pm$ 0.048 χ^2 /NDF: 600098.1/6

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

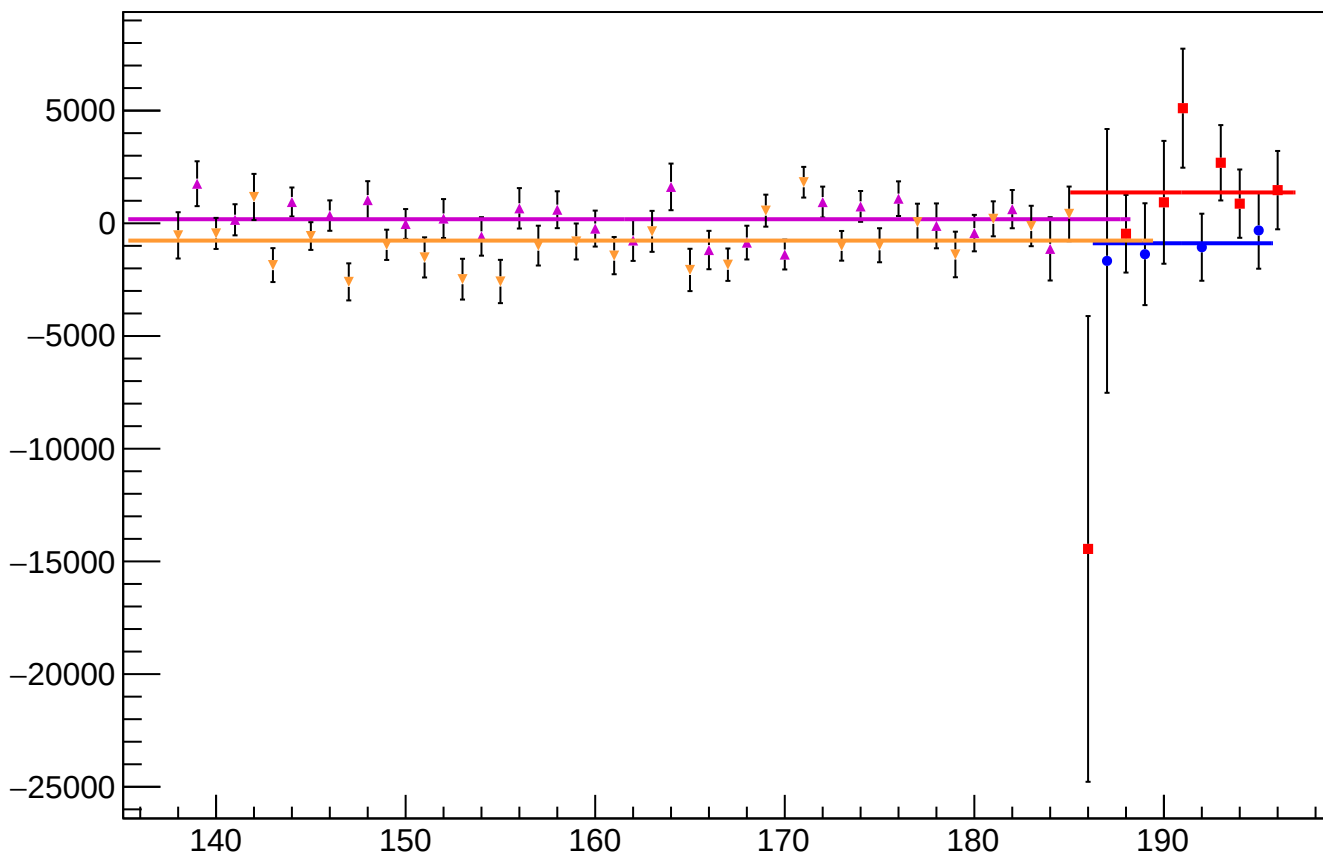
Right: 134.160 $\pm$ 0.038 χ^2 /NDF: 626118.2/10

In: 104.004 $\pm$ 0.017 χ^2 /NDF: 876971.6/26

Out: 104.351 $\pm$ 0.016 χ^2 /NDF: 1609835.4/31

All: 104.188 $\pm$ 0.012 χ^2 /NDF: 2487033.0/58

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -885.129 ± 988.359 $\chi^2/\text{NDF}: 0.2/3$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1369.678 ± 756.153 $\chi^2/\text{NDF}: 6.2/6$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

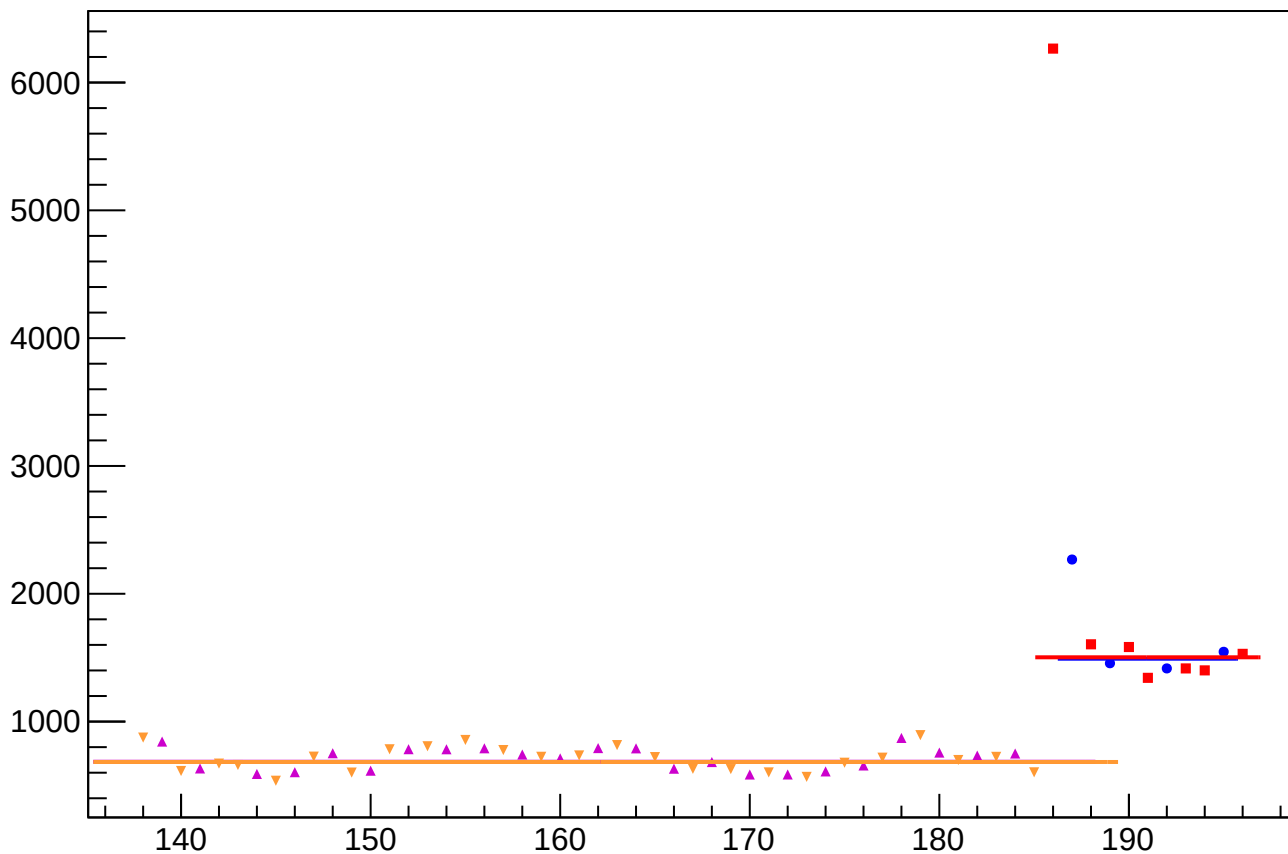
Right: 537.178 ± 600.554 $\chi^2/\text{NDF}: 9.7/10$

In: 152.431 ± 163.391 $\chi^2/\text{NDF}: 26.3/26$

Out: -673.648 ± 157.532 $\chi^2/\text{NDF}: 60.4/31$

All: -275.685 ± 113.407 $\chi^2/\text{NDF}: 100.0/58$

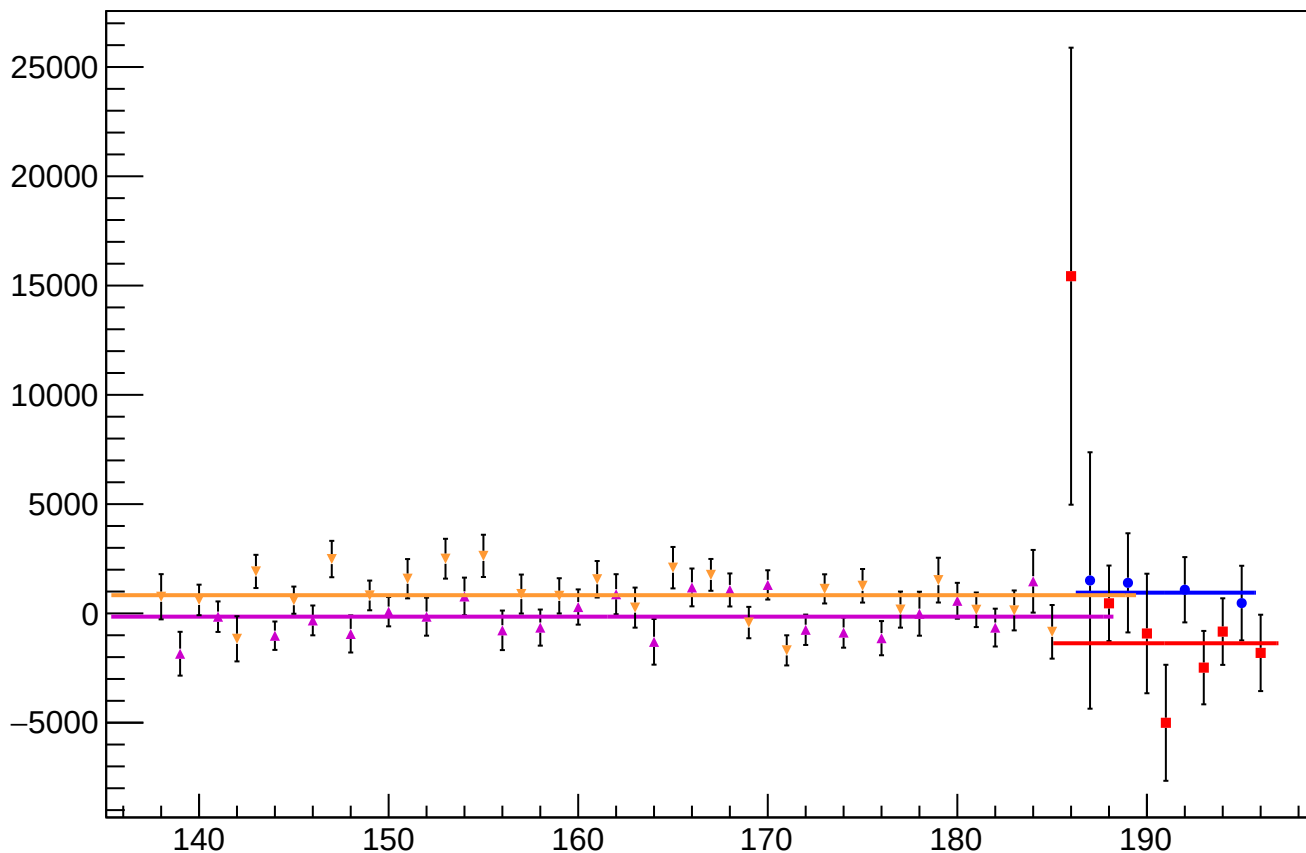
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1492.028+/-0.699 χ^2/NDF : 42896.0/3
 Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24
 Right Out: 1502.896+/-0.535 χ^2/NDF : 456129.1/6
 Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47
 Right: 1498.884+/-0.425 χ^2/NDF : 499177.6/10
 In: 707.632+/-0.116 χ^2/NDF : 1867356.6/26
 Out: 719.432+/-0.111 χ^2/NDF : 3367788.4/31
 All: 713.747+/-0.080 χ^2/NDF : 5240550.8/58

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 948.843 $\pm$ 992.682 χ^2 /NDF: 0.1/3

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1366.299 $\pm$ 759.582 χ^2 /NDF: 6.2/6

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

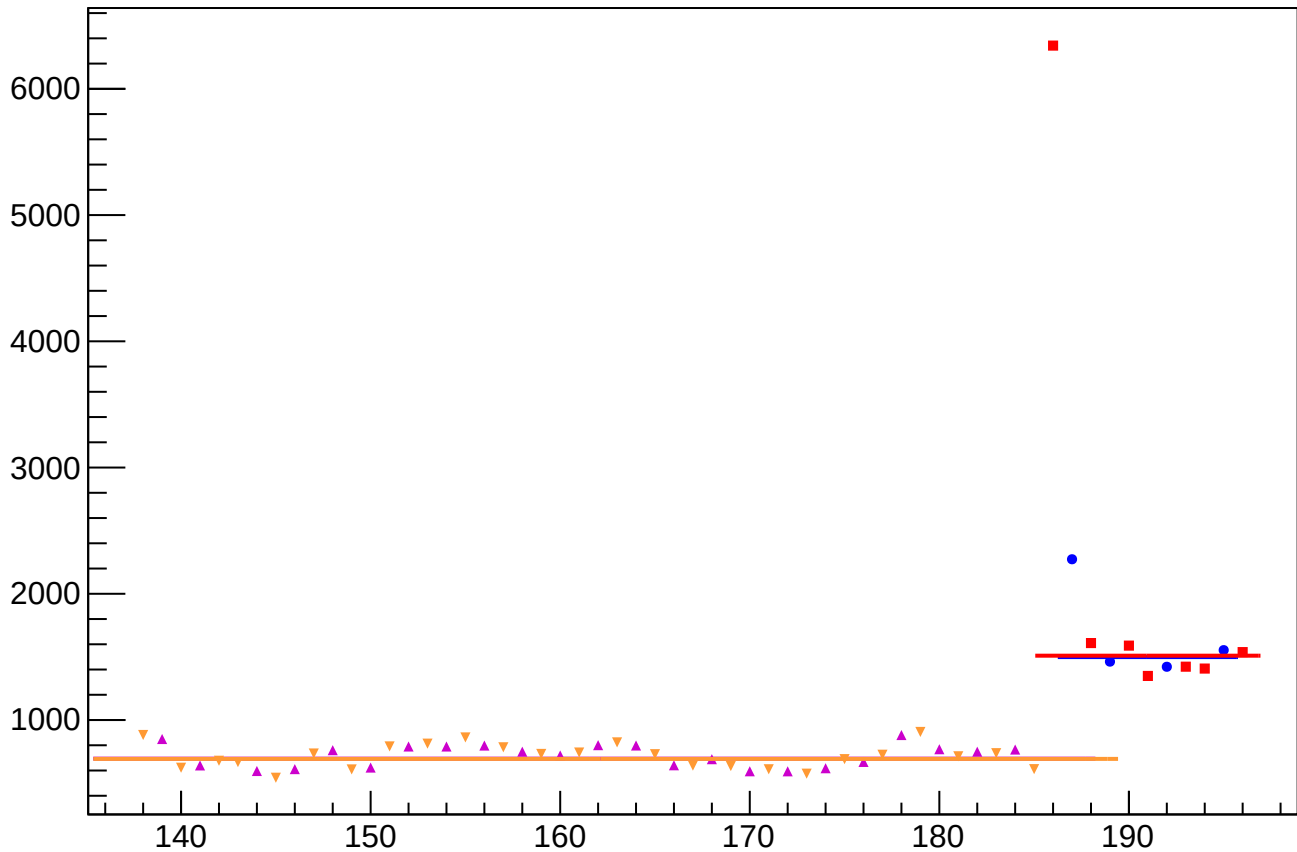
Right: -511.351 $\pm$ 603.242 χ^2 /NDF: 9.8/10

In: -118.376 $\pm$ 165.303 χ^2 /NDF:27.3/26

Out: 736.599 $\pm$ 159.339 χ^2 /NDF:57.5/31

All: 324.813 $\pm$ 114.720 χ^2 /NDF: 98.7/58

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1498.610 $\pm$ 0.702 χ^2 /NDF: 42756.1/3

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1509.644 $\pm$ 0.537 χ^2 /NDF: 457905.1/6

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

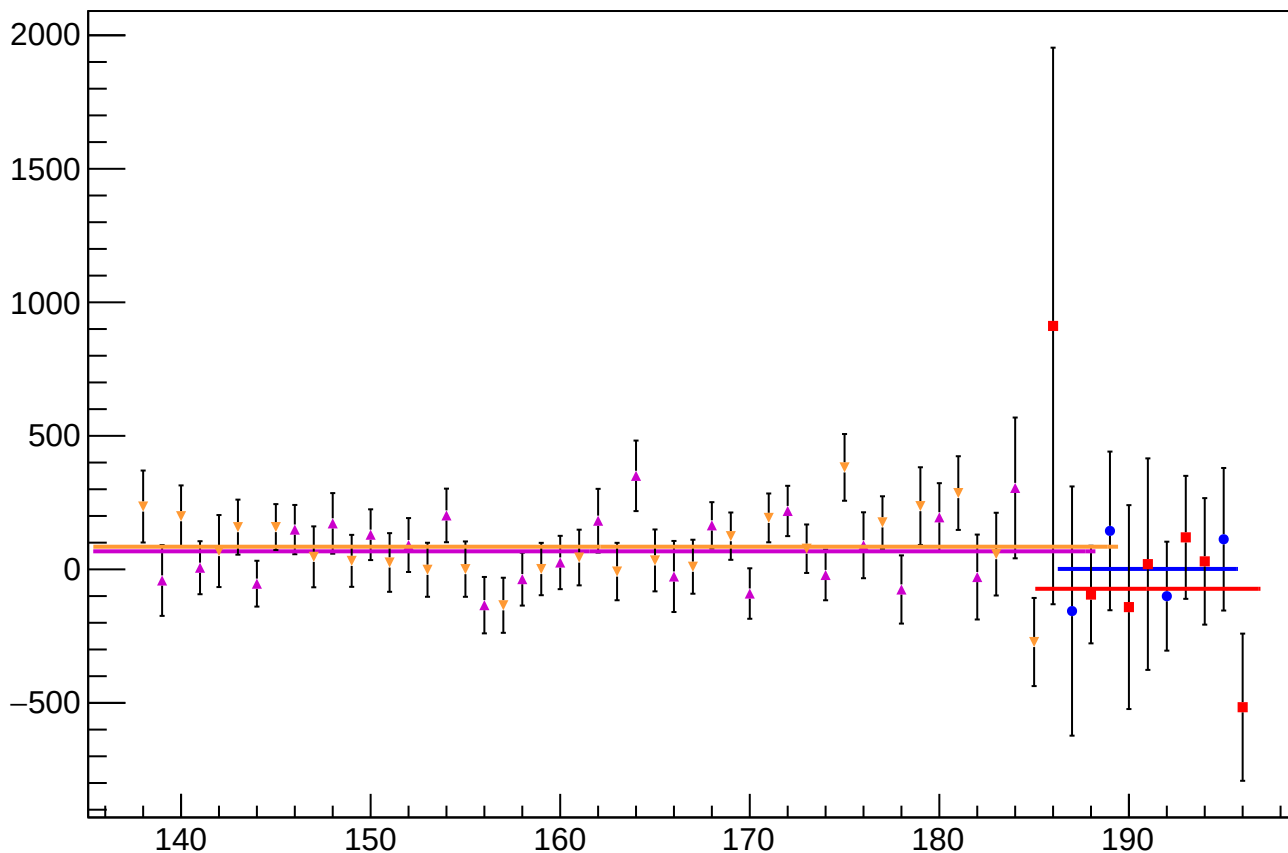
Right: 1505.570 $\pm$ 0.427 χ^2 /NDF: 500817.0/10

In: 716.182 $\pm$ 0.117 χ^2 /NDF: 1842751.3/26

Out: 728.072 $\pm$ 0.113 χ^2 /NDF: 3330106.9/31

All: 722.346 $\pm$ 0.081 χ^2 /NDF: 5178221.9/58

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1.608 $\pm$ 136.091 χ^2 /NDF: 0.8/3

Left Out: 84.860 $\pm$ 21.643 χ^2 /NDF:28.5/24

Right Out: -72.733 $\pm$ 103.176 χ^2 /NDF: 4.5/6

Left In: 67.552 $\pm$ 22.449 χ^2 /NDF:28.9/22

Left: 76.522 $\pm$ 15.581 χ^2 /NDF: 57.7/47

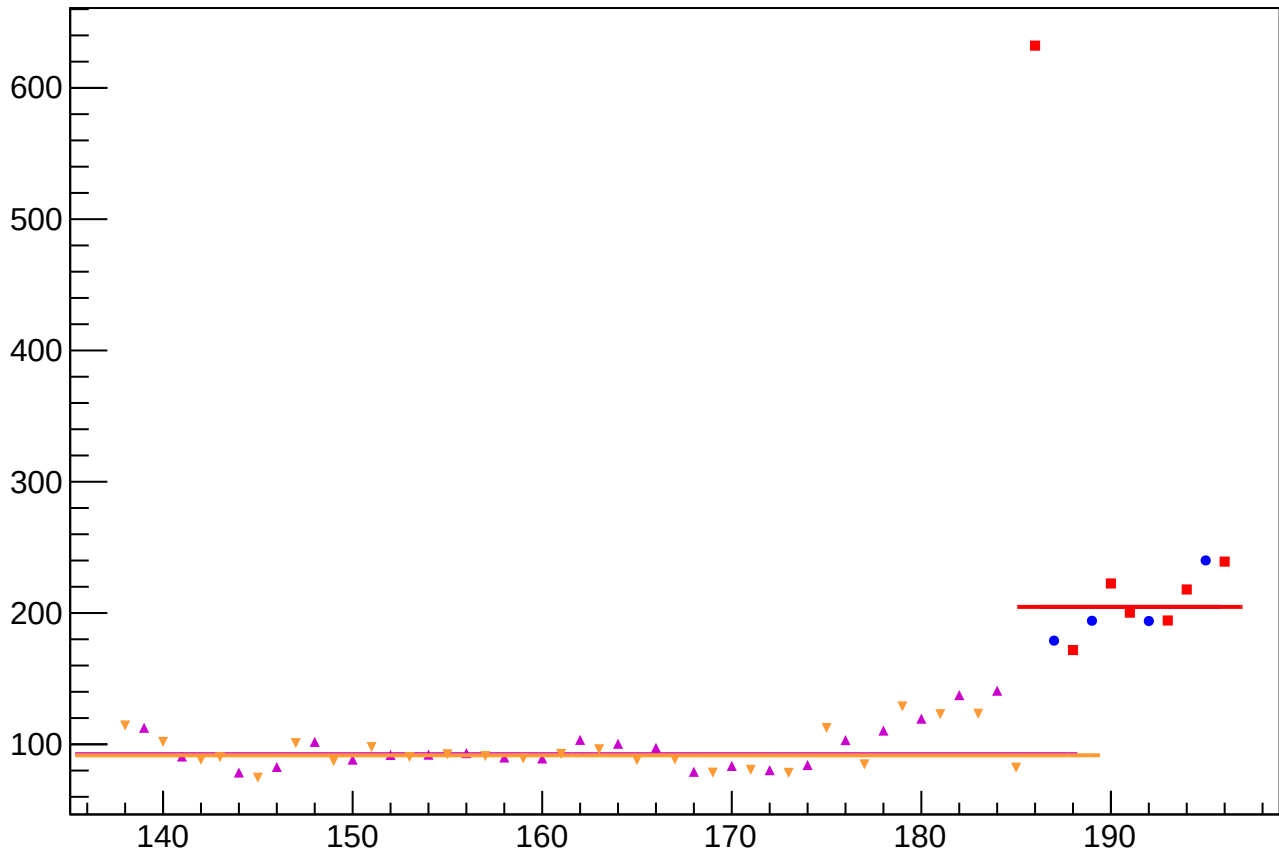
Right: -45.600 $\pm$ 82.218 χ^2 /NDF: 5.4/10

In: 65.805 $\pm$ 22.150 χ^2 /NDF:29.8/26

Out: 78.218 $\pm$ 21.182 χ^2 /NDF:35.2/31

All: 72.289 $\pm$ 15.309 χ^2 /NDF: 65.2/58

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 204.678 $\pm$ 0.096 χ^2 /NDF: 49334.4/3

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF:693122.0/24

Right Out: 204.670 $\pm$ 0.073 χ^2 /NDF: 447572.3/6

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

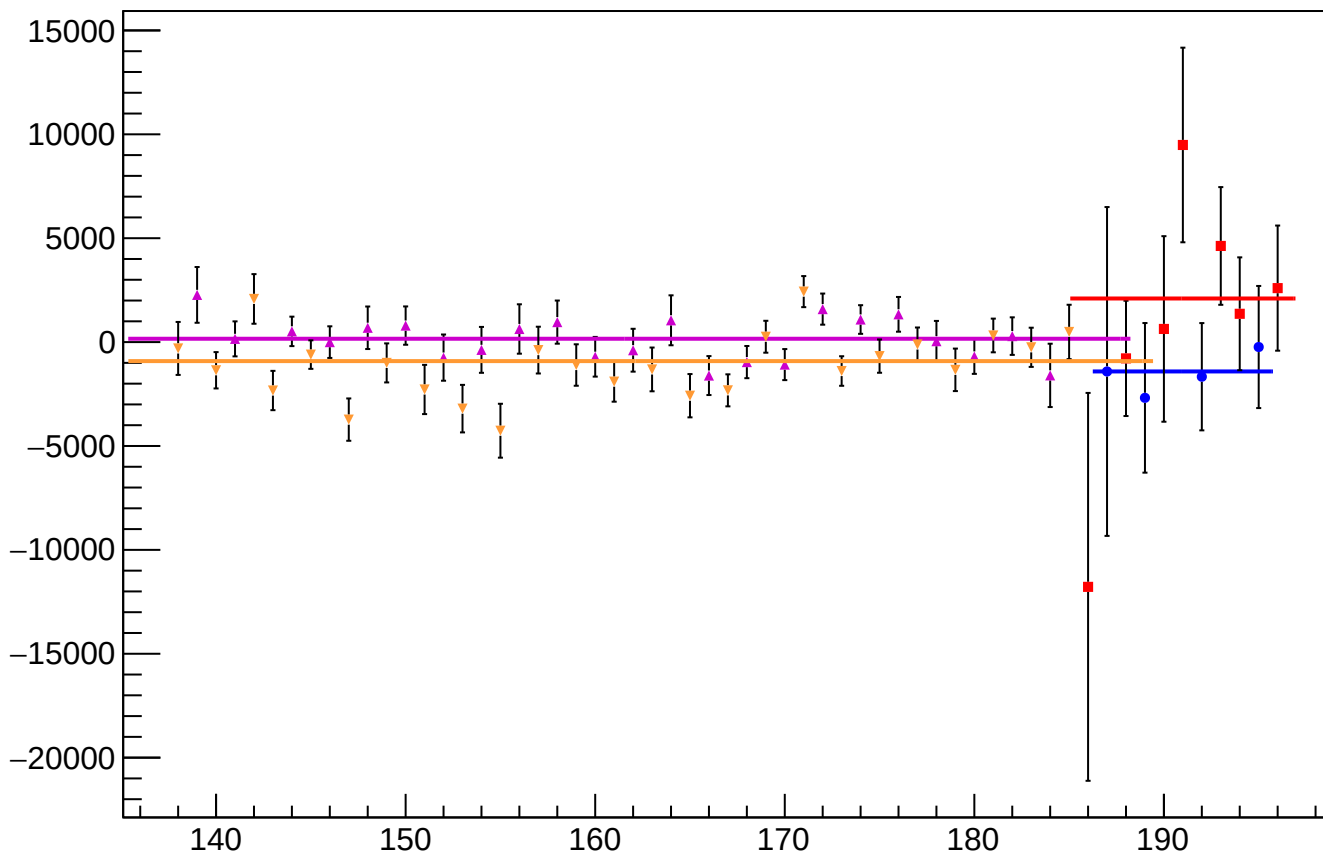
Right: 204.673 $\pm$ 0.058 χ^2 /NDF: 496906.7/10

In: 95.438 $\pm$ 0.016 χ^2 /NDF:2028749.0/26

Out: 96.397 $\pm$ 0.015 χ^2 /NDF:3440090.5/31

All: 95.939 $\pm$ 0.011 χ^2 /NDF: 5470795.8/58

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1412.459+/-1669.093 χ^2/NDF : 0.3/3

Left Out: -914.719+/-185.341 χ^2/NDF : 64.2/24

Right Out: 2098.505+/-1282.873 χ^2/NDF : 6.8/6

Left In: 161.076+/-189.491 χ^2/NDF : 25.1/22

Left: -388.730+/-132.499 χ^2/NDF : 105.7/47

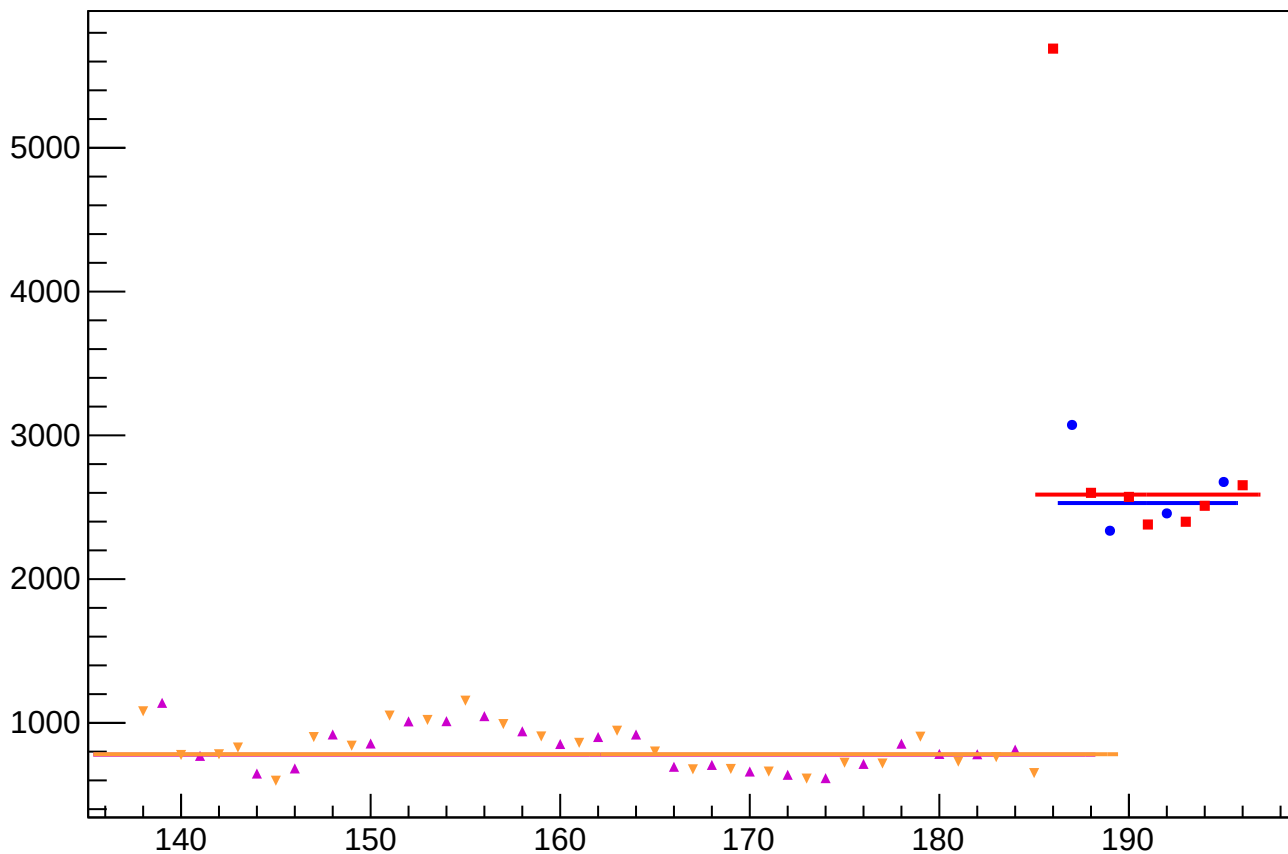
Right: 794.648+/-1017.144 χ^2/NDF : 9.9/10

In: 141.053+/-188.281 χ^2/NDF : 26.3/26

Out: -853.111+/-183.436 χ^2/NDF : 76.4/31

All: -368.985+/-131.388 χ^2/NDF : 116.9/58

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2529.154 $\pm$ 1.180 χ^2 /NDF: 21687.4/3

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF:1130984.3/24

Right Out: 2587.945 $\pm$ 0.907 χ^2 /NDF: 236377.9/6

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

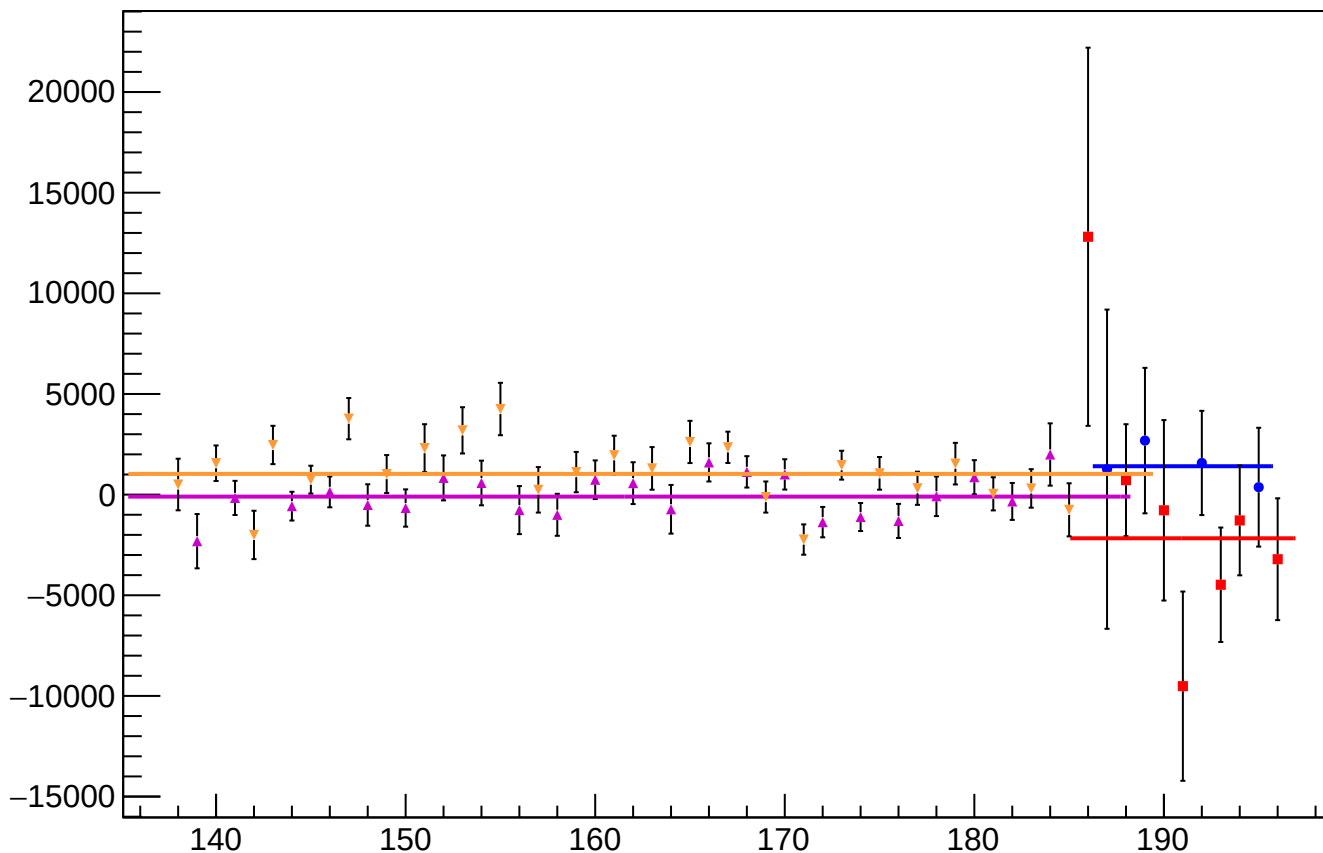
Right: 2566.112 $\pm$ 0.719 χ^2 /NDF: 259625.1/10

In: 801.265 $\pm$ 0.133 χ^2 /NDF:3172942.6/26

Out: 818.965 $\pm$ 0.130 χ^2 /NDF:5249578.1/31

All: 810.346 $\pm$ 0.093 χ^2 /NDF: 8431588.4/58

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1410.235+/-1675.163 χ^2/NDF : 0.3/3

Left Out: 1028.864+/-186.810 χ^2/NDF :60.2/24

Right Out: -2169.587+/-1287.663 χ^2/NDF : 7.0/6

Left In: -98.691+/-191.027 χ^2/NDF :25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

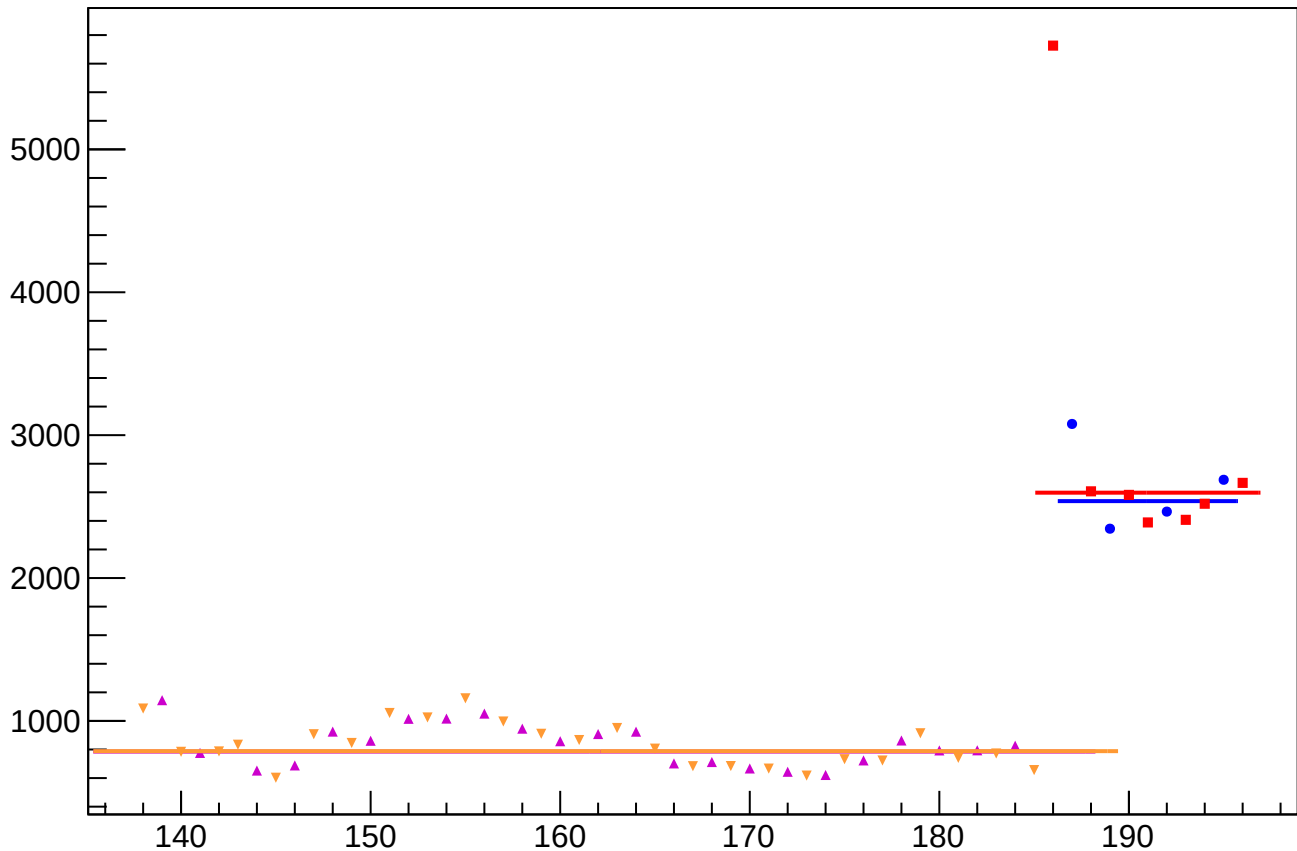
Right: -839.997+/-1020.905 χ^2/NDF : 10.2/10

In: -79.321+/-189.797 χ^2/NDF :26.4/26

Out: 962.933+/-184.875 χ^2/NDF :73.2/31

All: 455.496+/-132.432 χ^2/NDF : 115.1/58

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2538.344 $\pm$ 1.185 χ^2 /NDF: 21708.0/3

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF:1113741.6/24

Right Out: 2597.493 $\pm$ 0.911 χ^2 /NDF: 237427.6/6

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

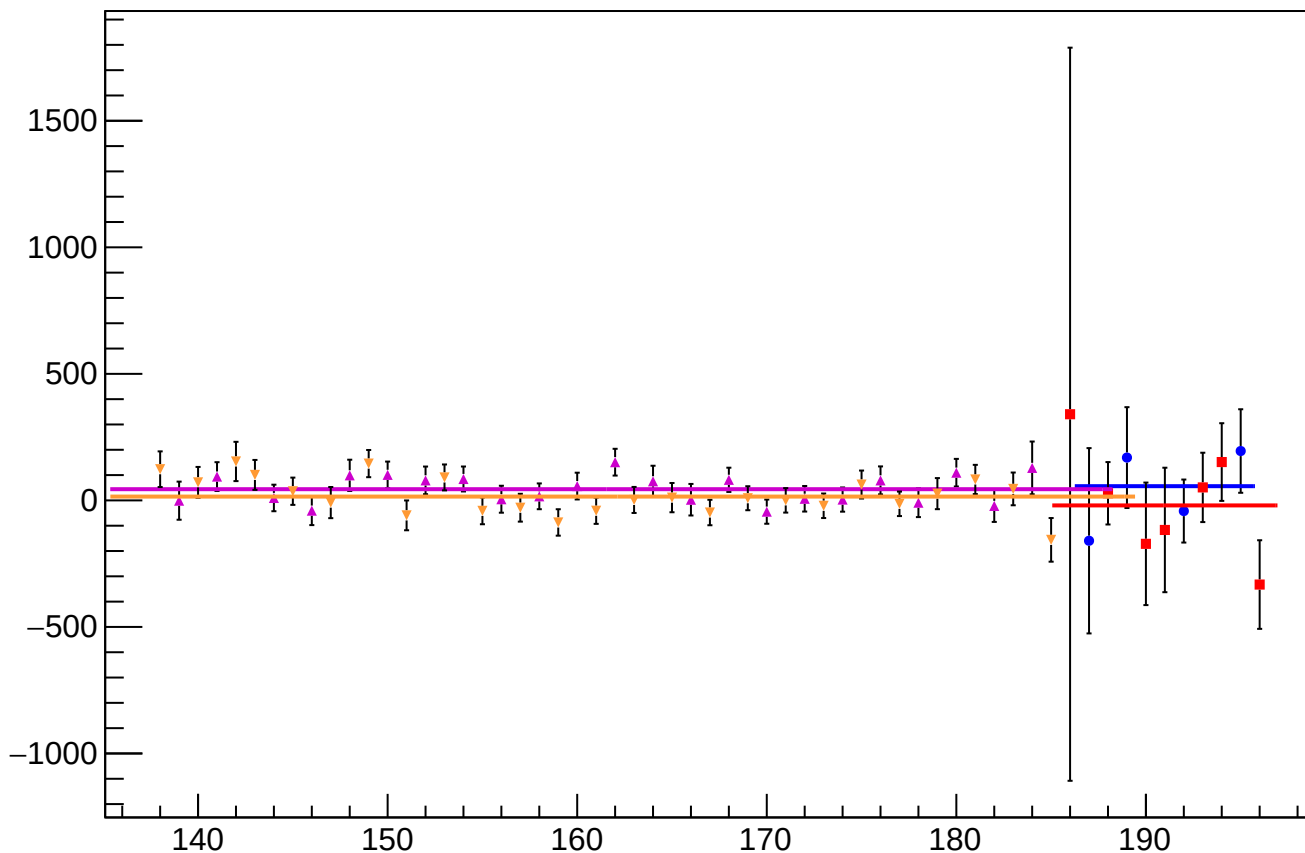
Right: 2575.524 $\pm$ 0.722 χ^2 /NDF: 260702.9/10

In: 807.992 $\pm$ 0.134 χ^2 /NDF:3148751.5/26

Out: 825.733 $\pm$ 0.131 χ^2 /NDF:5217341.8/31

All: 817.095 $\pm$ 0.094 χ^2 /NDF: 8375060.0/58

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 56.179 $\pm$ 86.414 χ^2 /NDF: 2.0/3

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: -19.847 $\pm$ 66.197 χ^2 /NDF: 5.5/6

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

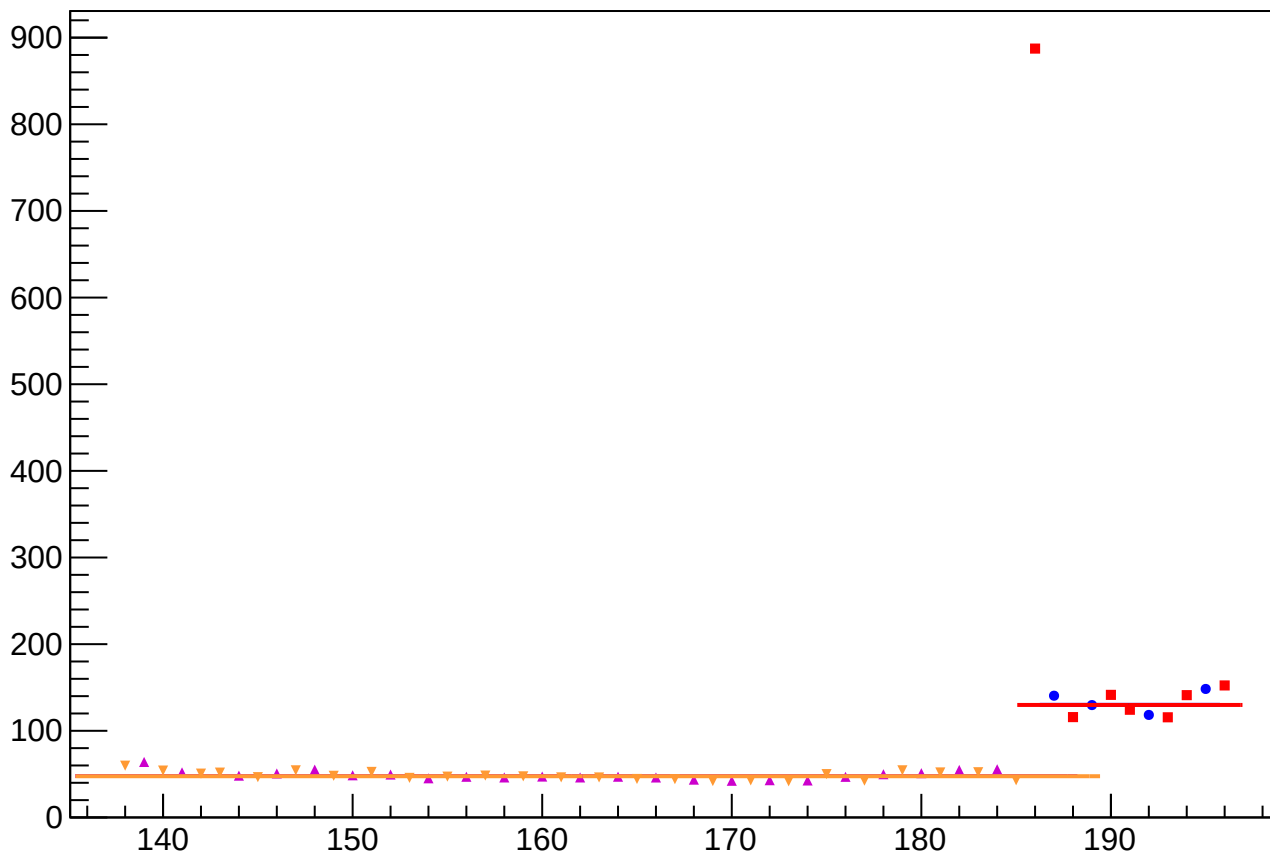
Right: 8.269 $\pm$ 52.550 χ^2 /NDF: 8.0/10

In: 44.505 $\pm$ 11.428 χ^2 /NDF:24.3/26

Out: 14.134 $\pm$ 10.999 χ^2 /NDF:39.9/31

All: 28.739 $\pm$ 7.925 χ^2 /NDF: 67.9/58

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 129.934 $\pm$ 0.061 χ^2 /NDF: 43852.9/3

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 129.849 $\pm$ 0.047 χ^2 /NDF: 644139.0/6

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

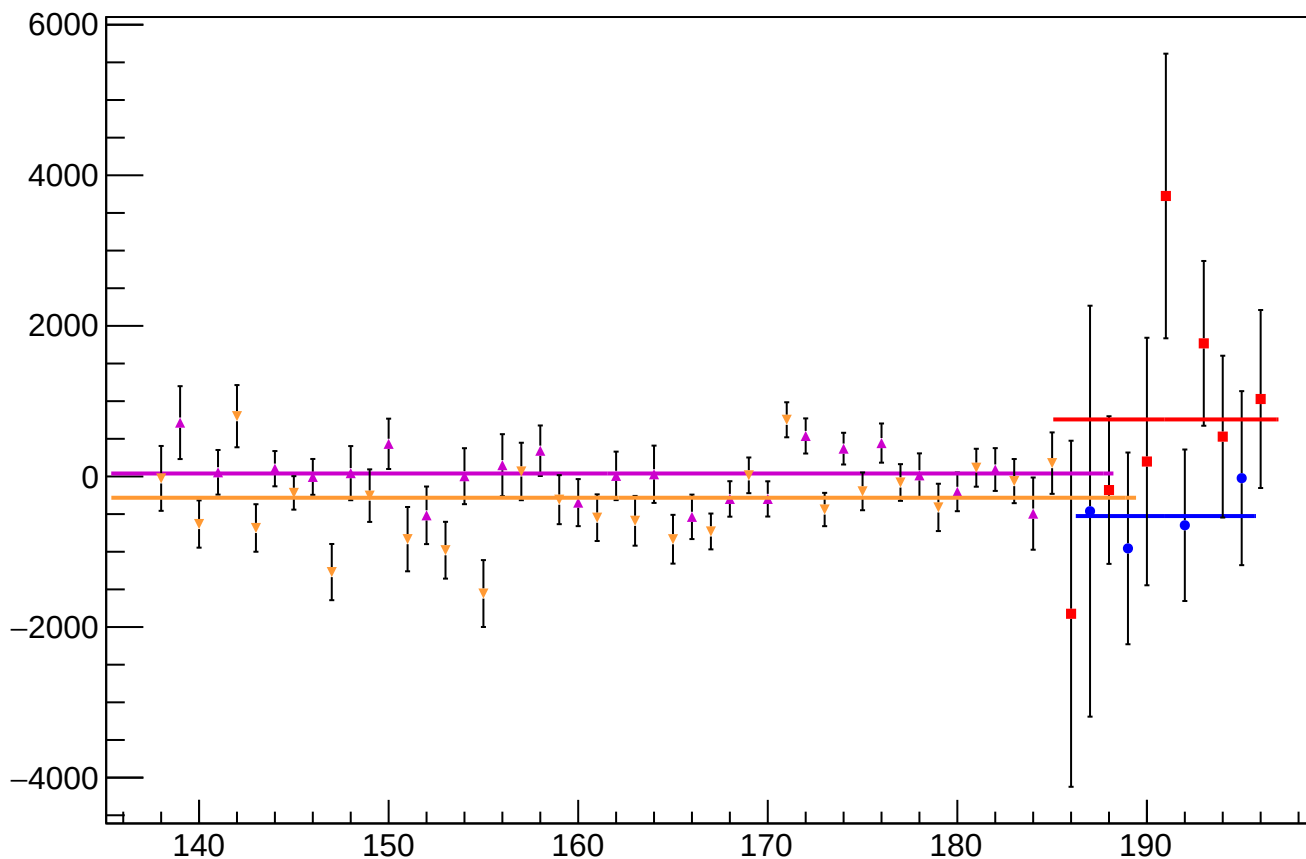
Right: 129.880 $\pm$ 0.037 χ^2 /NDF: 687993.1/10

In: 49.282 $\pm$ 0.008 χ^2 /NDF: 2098831.5/26

Out: 49.857 $\pm$ 0.008 χ^2 /NDF: 3960299.5/31

All: 49.581 $\pm$ 0.006 χ^2 /NDF: 6061764.2/58

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -525.949+/-633.993 χ^2/NDF : 0.3/3

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: 757.344+/-482.446 χ^2/NDF : 5.7/6

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

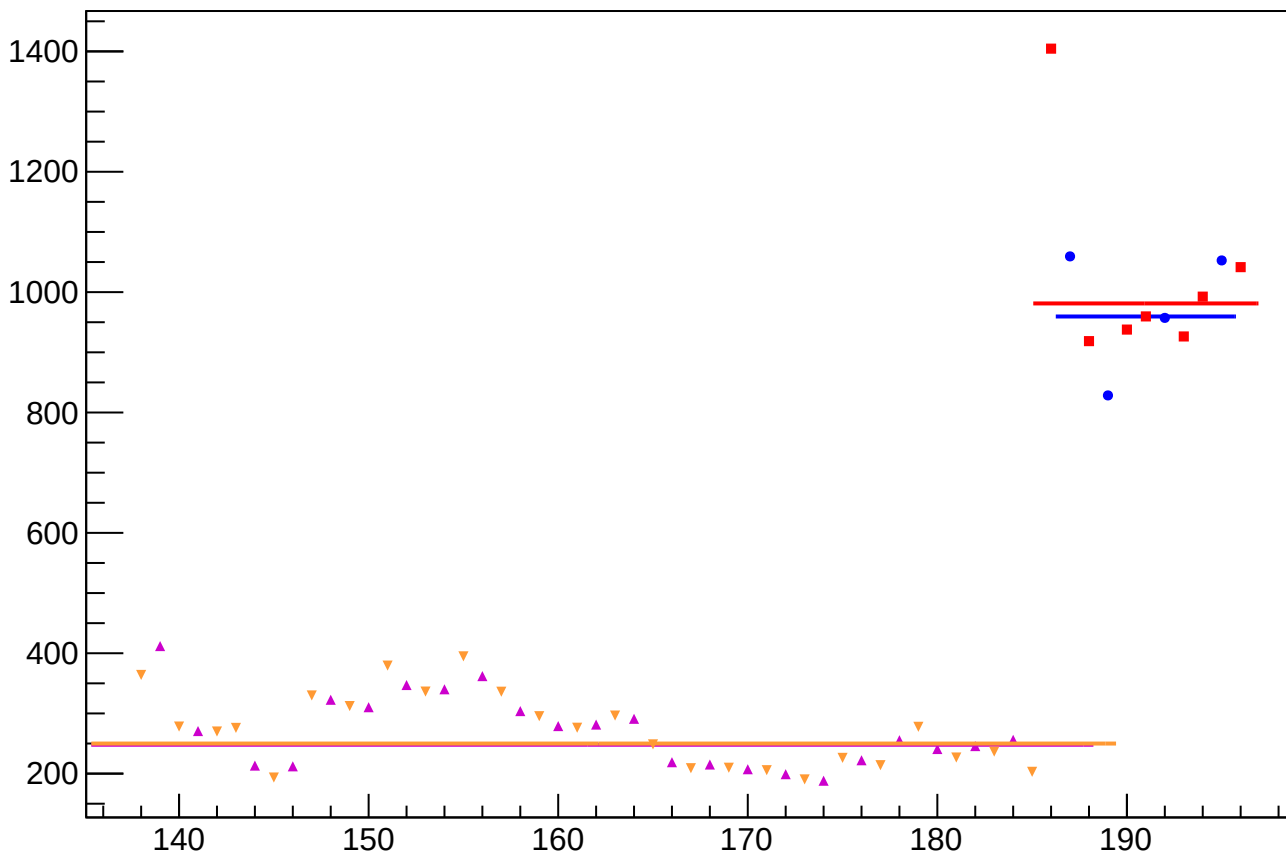
Right: 286.742+/-383.927 χ^2/NDF : 8.6/10

In: 34.286+/-60.482 χ^2/NDF : 28.7/26

Out: -267.117+/-59.238 χ^2/NDF : 76.8/31

All: -119.546+/-42.321 χ^2/NDF : 118.1/58

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 959.529 $\pm$ 0.448 χ^2 /NDF: 36896.1/3

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 981.225 $\pm$ 0.341 χ^2 /NDF: 88133.6/6

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

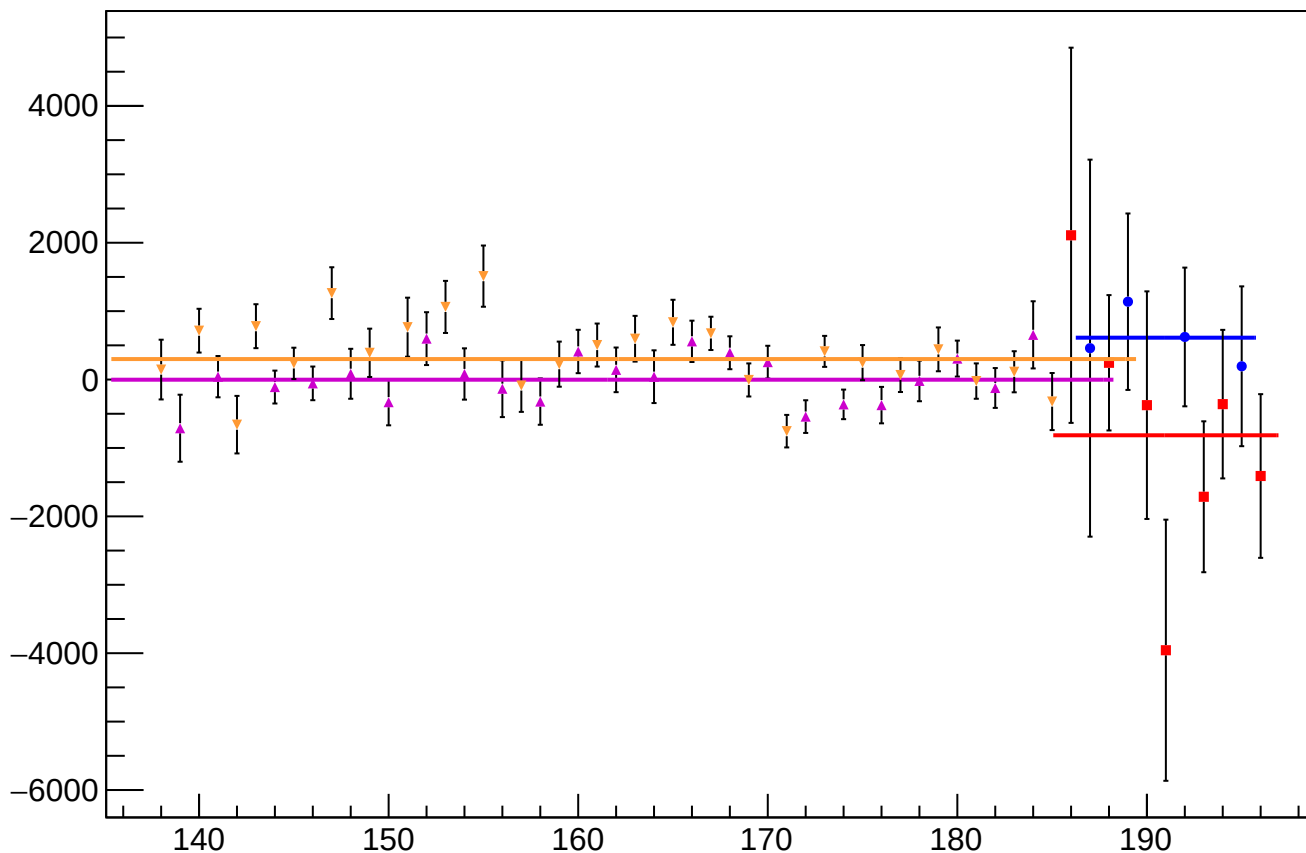
Right: 973.269 $\pm$ 0.271 χ^2 /NDF: 126512.9/10

In: 254.393 $\pm$ 0.043 χ^2 /NDF:3944506.3/26

Out: 260.982 $\pm$ 0.042 χ^2 /NDF:6228070.0/31

All: 257.756 $\pm$ 0.030 χ^2 /NDF: 10184688.8/58

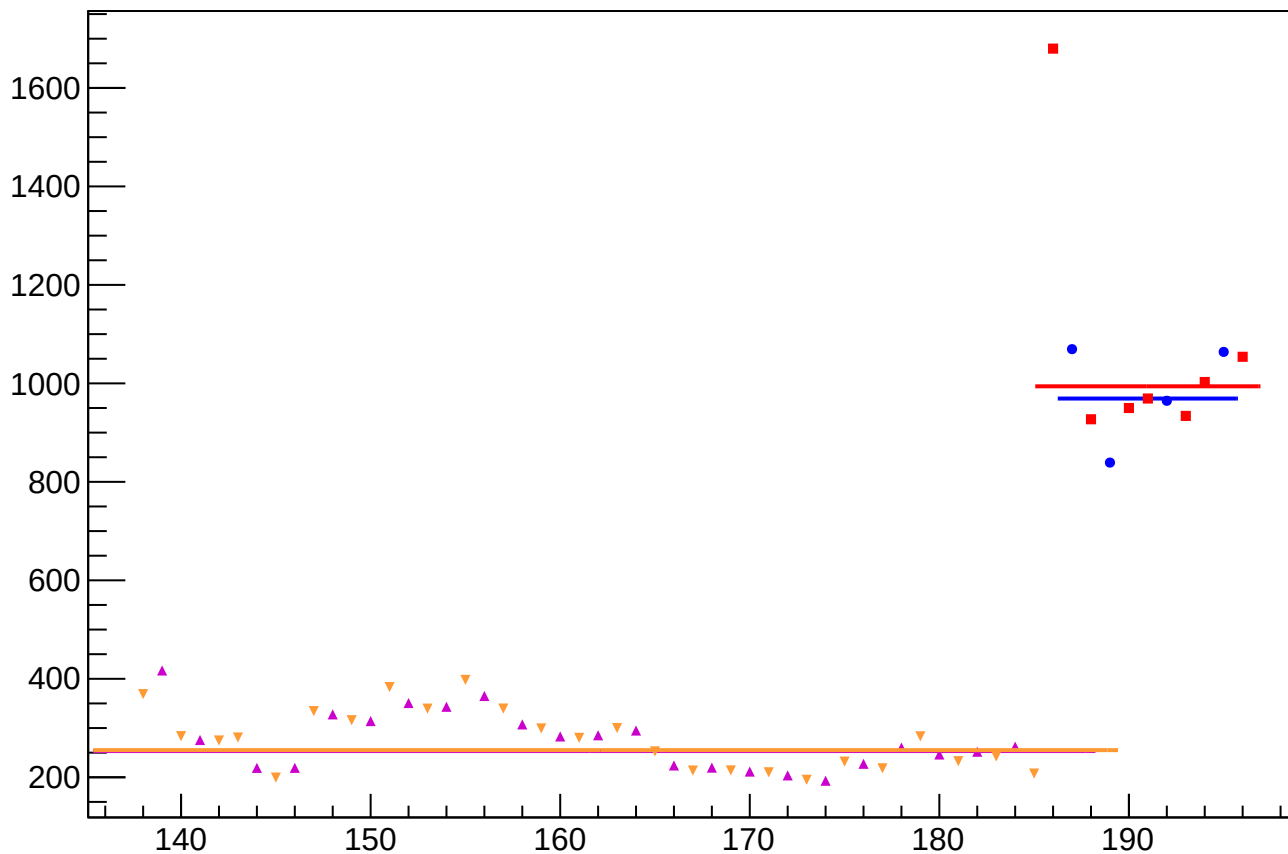
asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 612.105 ± 640.355 $\chi^2/\text{NDF}: 0.3/3$
 Left Out: 299.562 ± 60.860 $\chi^2/\text{NDF}: 62.5/24$
 Right Out: -814.652 ± 490.330 $\chi^2/\text{NDF}: 6.2/6$
 Left In: -2.185 ± 62.005 $\chi^2/\text{NDF}: 29.2/22$

Left: 151.501 ± 43.433 $\chi^2/\text{NDF}: 103.7/47$
 Right: -287.308 ± 389.308 $\chi^2/\text{NDF}: 9.6/10$
 In: 3.521 ± 61.716 $\chi^2/\text{NDF}: 30.4/26$
 Out: 282.657 ± 60.396 $\chi^2/\text{NDF}: 73.7/31$
 All: 146.106 ± 43.166 $\chi^2/\text{NDF}: 114.5/58$

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Left: 254.229 $\pm$ 0.031 χ^2/NDF : 2884606.5/47

Right: 984.846 $\pm$ 0.275 χ^2/NDF : 185153.7/10

In: 259.937 $\pm$ 0.044 χ^2/NDF : 3854388.7/26

Out: 266.346 $\pm$ 0.043 χ^2/NDF : 6161836.3/31

All: 263.211 $\pm$ 0.031 χ^2/NDF : 10027240.7/58

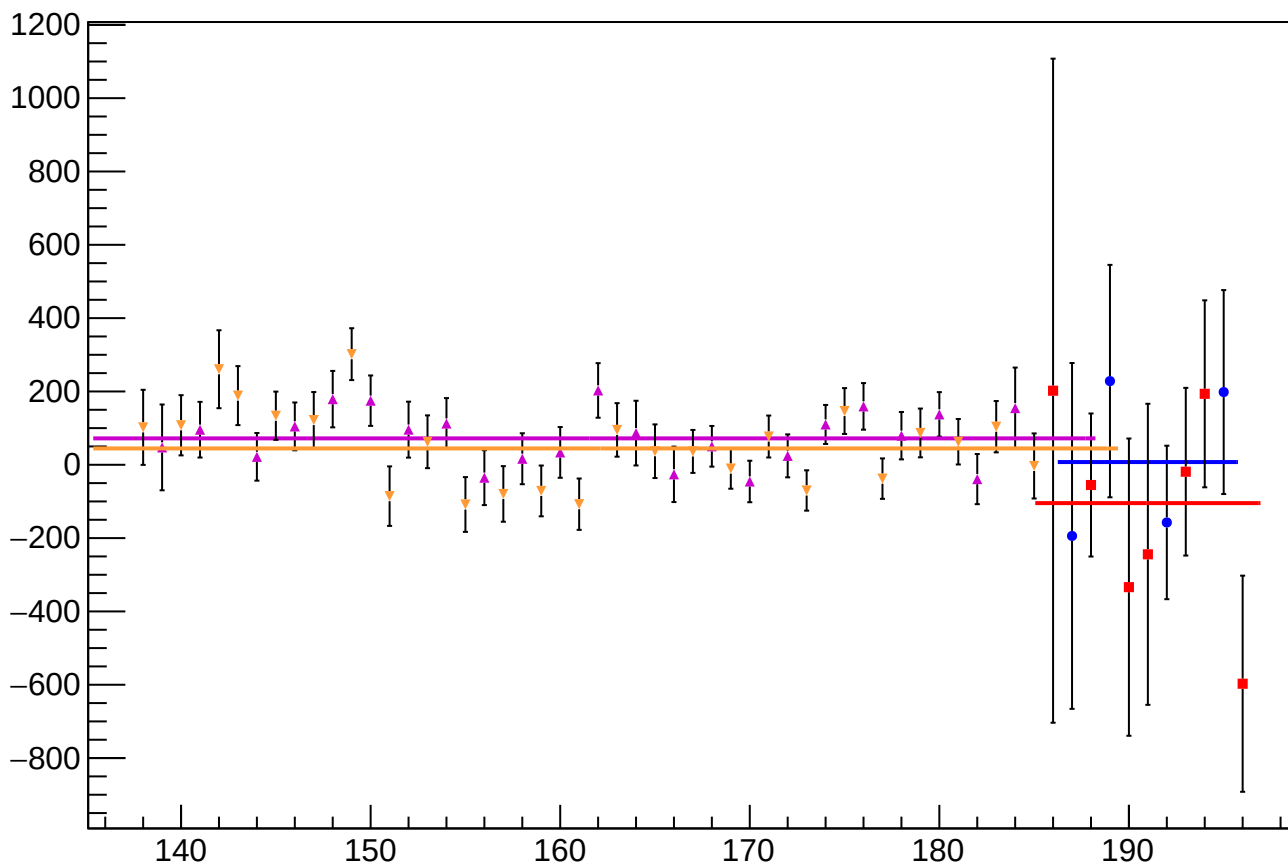
Right In: 969.190 $\pm$ 0.453 χ^2/NDF : 36194.3/3

Left Out: 255.135 $\pm$ 0.043 χ^2/NDF : 1542039.5/24

Right Out: 994.025 $\pm$ 0.347 χ^2/NDF : 147063.0/6

Left In: 253.287 $\pm$ 0.044 χ^2/NDF : 1341662.3/22

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 7.426 ± 141.150 $\chi^2/\text{NDF}: 1.8/3$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -104.552 ± 108.142 $\chi^2/\text{NDF}: 4.9/6$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

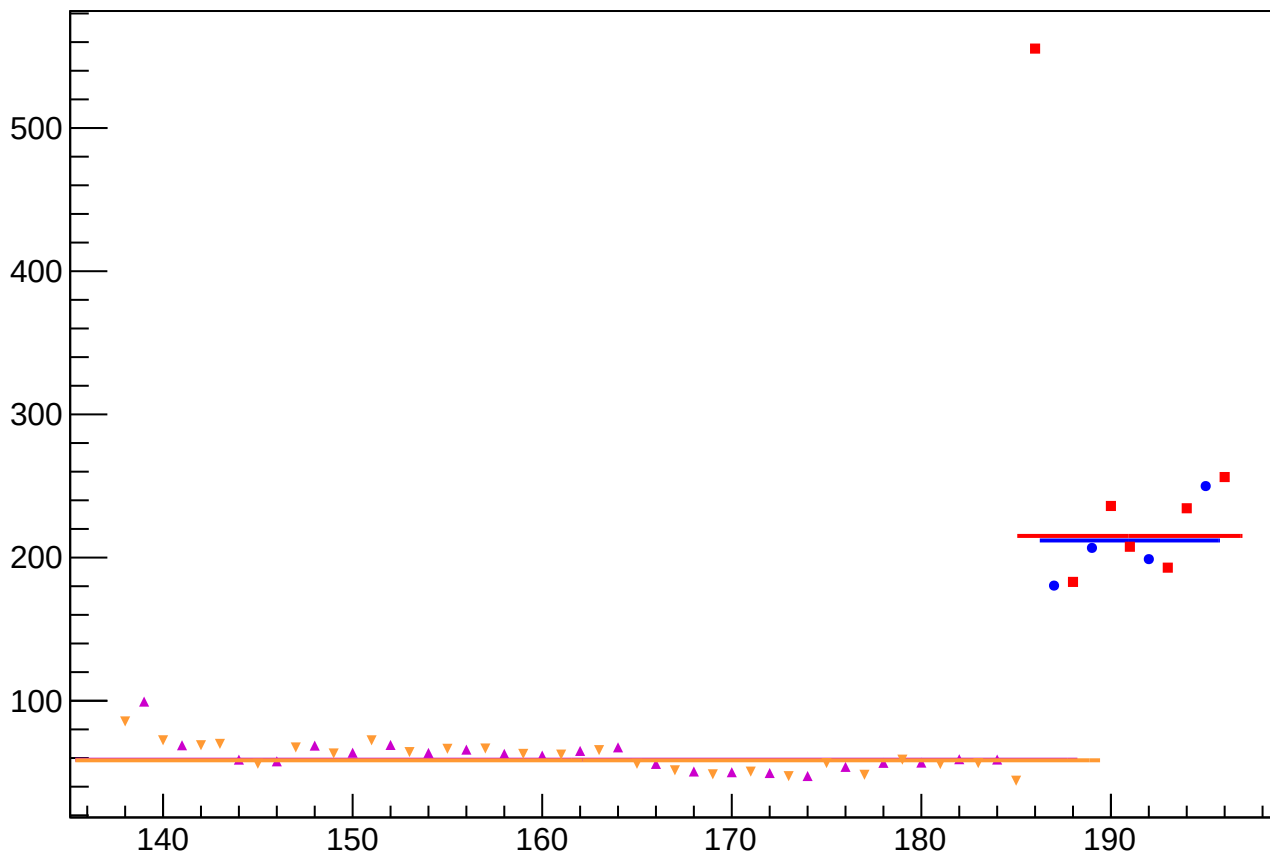
Right: -63.134 ± 85.844 $\chi^2/\text{NDF}: 7.1/10$

In: 71.381 ± 14.224 $\chi^2/\text{NDF}: 27.3/26$

Out: 42.204 ± 13.713 $\chi^2/\text{NDF}: 60.7/31$

All: 56.259 ± 9.872 $\chi^2/\text{NDF}: 90.1/58$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 211.955 $\pm$ 0.100 χ^2 /NDF: 54523.1/3

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 215.128 $\pm$ 0.076 χ^2 /NDF: 411828.9/6

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

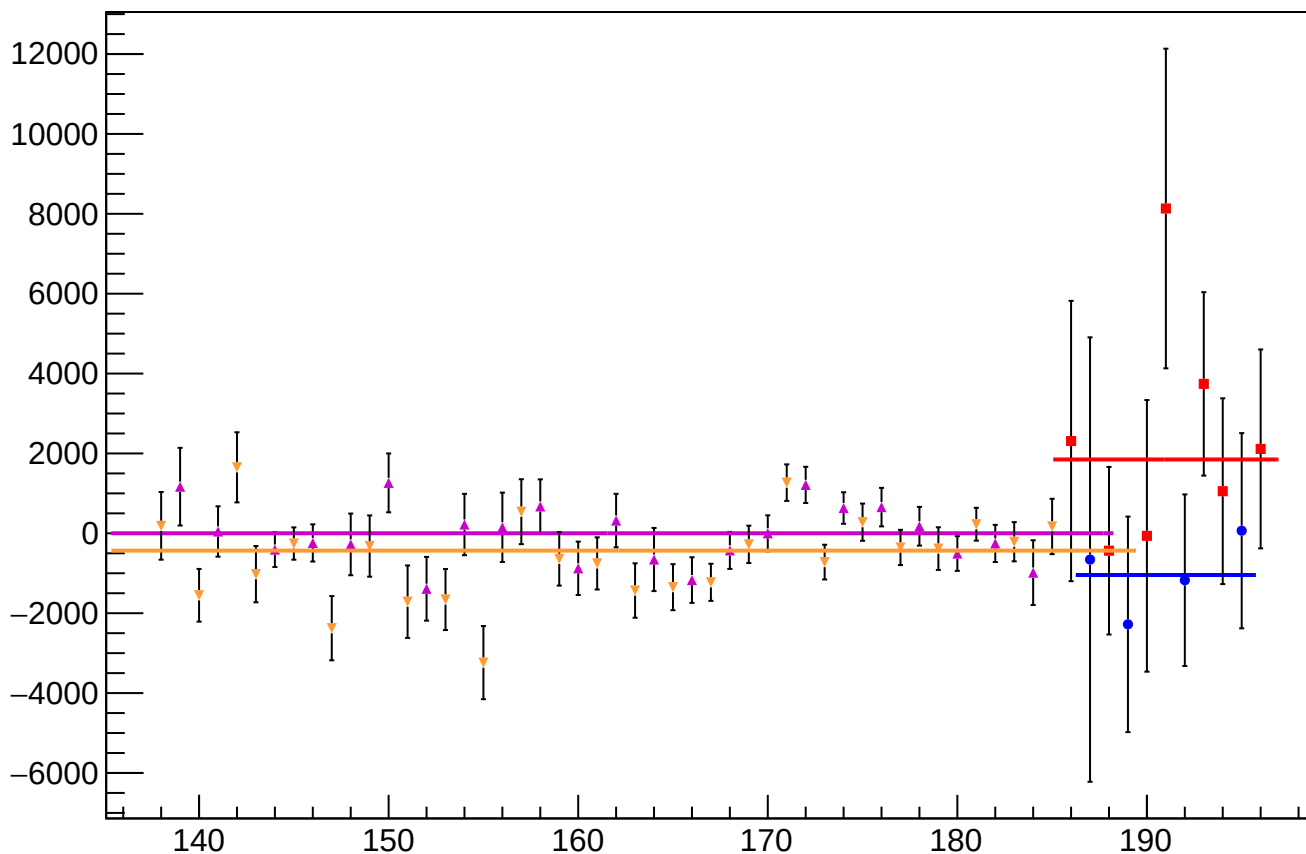
Right: 213.954 $\pm$ 0.061 χ^2 /NDF: 466988.9/10

In: 60.395 $\pm$ 0.010 χ^2 /NDF: 3064000.4/26

Out: 60.942 $\pm$ 0.010 χ^2 /NDF: 5333985.8/31

All: 60.678 $\pm$ 0.007 χ^2 /NDF: 8399524.4/58

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1043.329 ± 1343.755 $\chi^2/\text{NDF}: 0.4/3$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1849.179 ± 1003.472 $\chi^2/\text{NDF}: 4.8/6$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

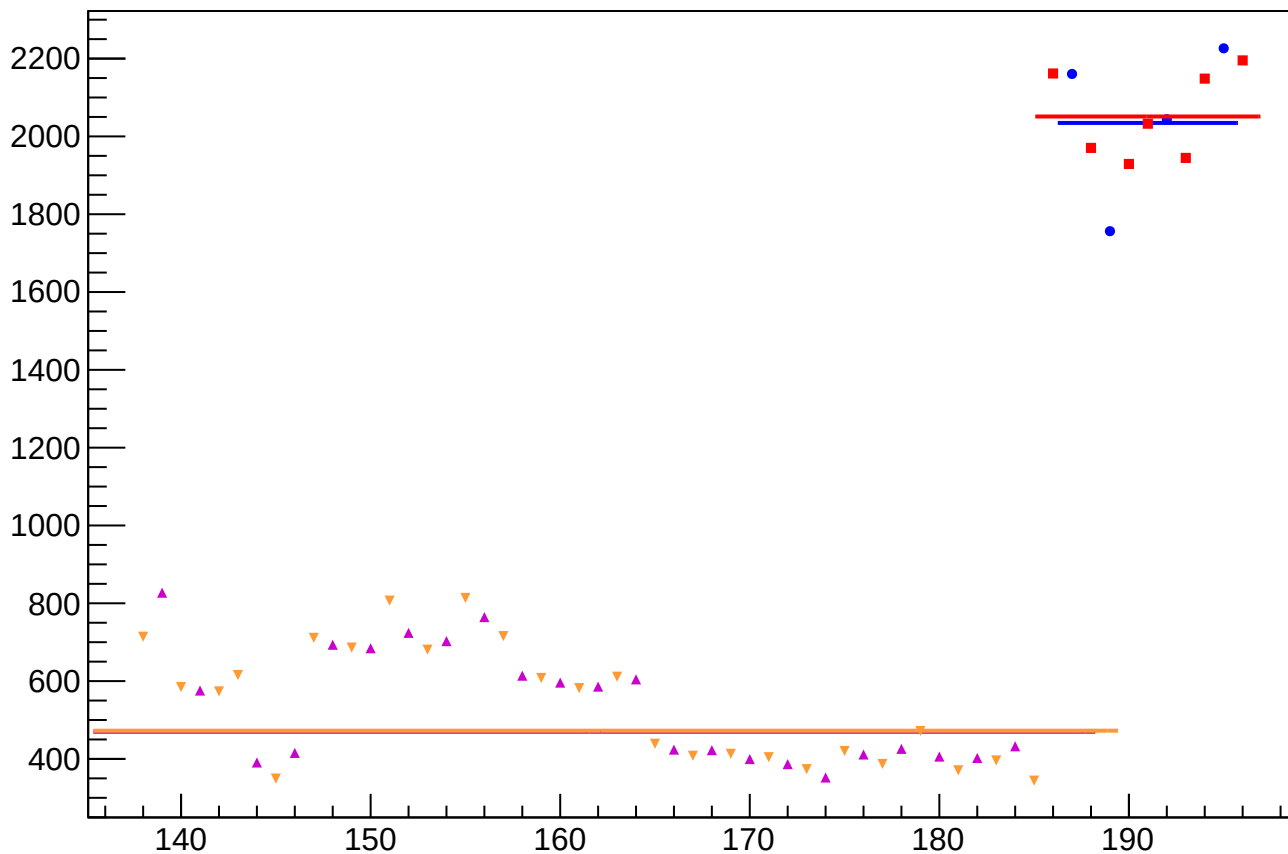
Right: 813.627 ± 804.024 $\chi^2/\text{NDF}: 8.2/10$

In: -5.967 ± 116.024 $\chi^2/\text{NDF}: 33.3/26$

Out: -403.054 ± 113.672 $\chi^2/\text{NDF}: 69.3/31$

All: -208.576 ± 81.197 $\chi^2/\text{NDF}: 108.6/58$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 2034.643 $\pm$ 0.950 χ^2/NDF : 34642.4/3

Left Out: 472.569 $\pm$ 0.081 χ^2/NDF :2508168.9/24

Right Out: 2051.181 $\pm$ 0.710 χ^2/NDF : 22065.3/6

Left In: 469.761 $\pm$ 0.082 χ^2/NDF :2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2/NDF : 4625646.2/47

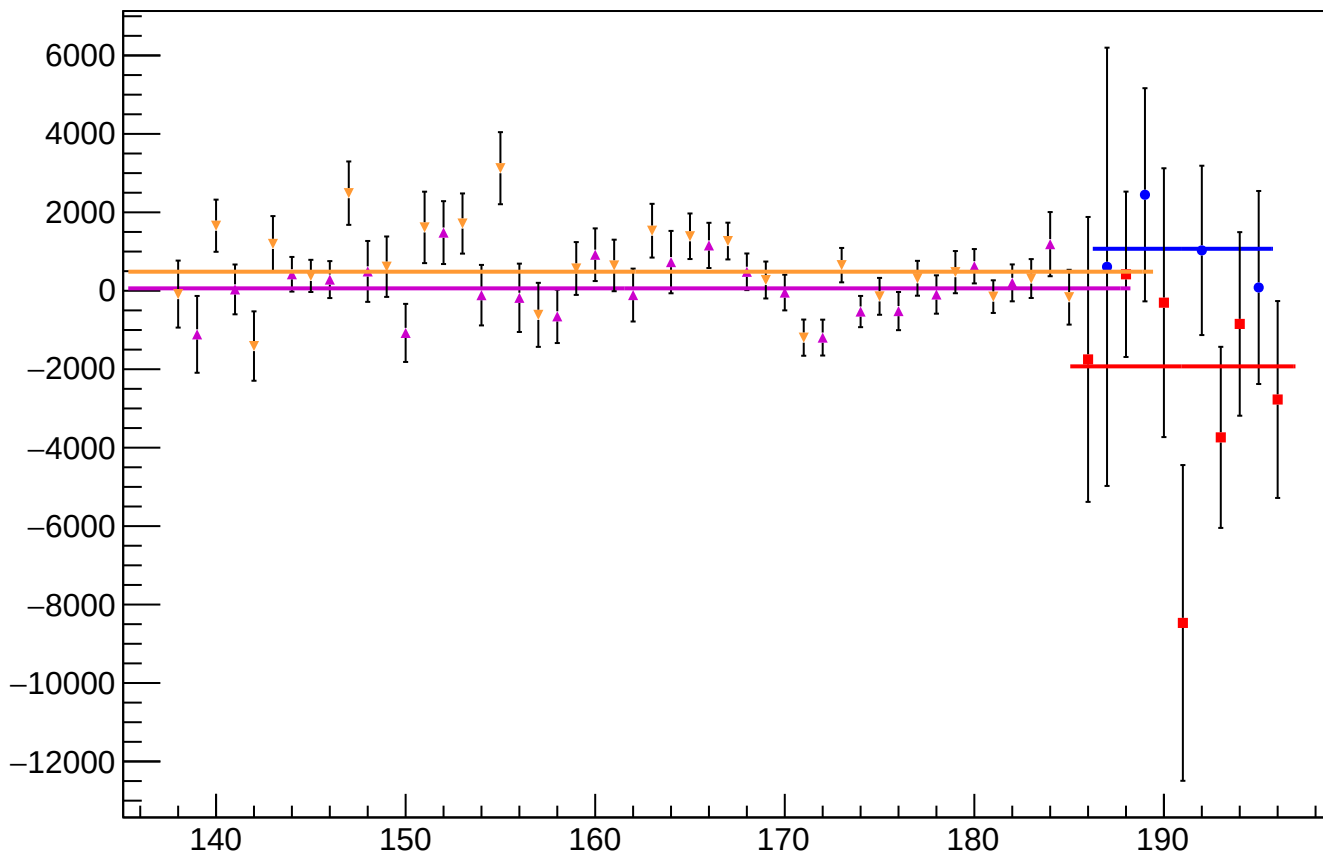
Right: 2045.261 $\pm$ 0.569 χ^2/NDF : 56902.2/10

In: 481.428 $\pm$ 0.082 χ^2/NDF :4843700.2/26

Out: 492.826 $\pm$ 0.080 χ^2/NDF :7416327.4/31

All: 487.243 $\pm$ 0.057 χ^2/NDF : 12269875.9/58

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1070.755+/-1351.852 χ^2/NDF : 0.4/3

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -1927.174+/-1011.882 χ^2/NDF : 5.0/6

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

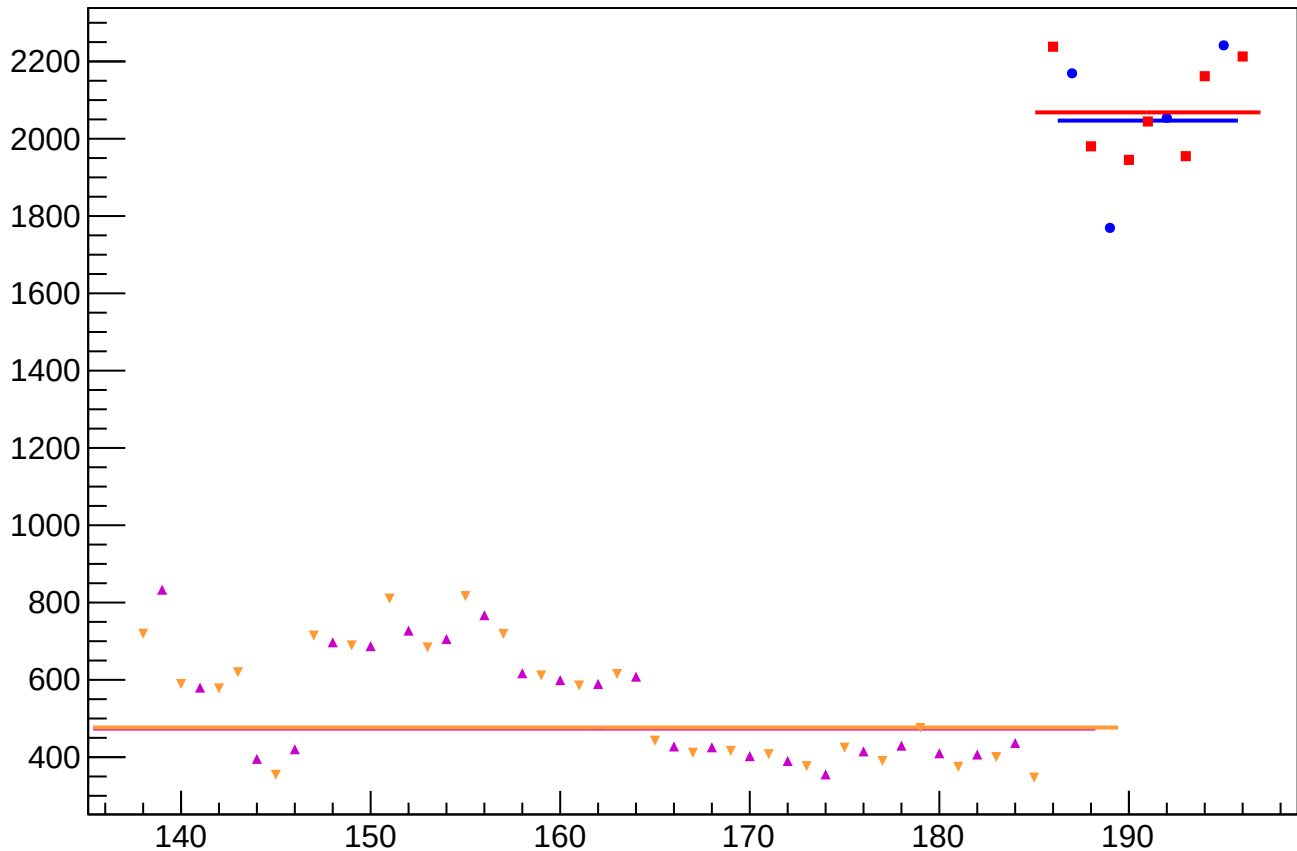
Right: -850.656+/-810.082 χ^2/NDF : 8.6/10

In: 69.334+/-117.008 χ^2/NDF :32.1/26

Out: 455.682+/-114.604 χ^2/NDF :66.7/31

All: 266.518+/-81.874 χ^2/NDF : 104.4/58

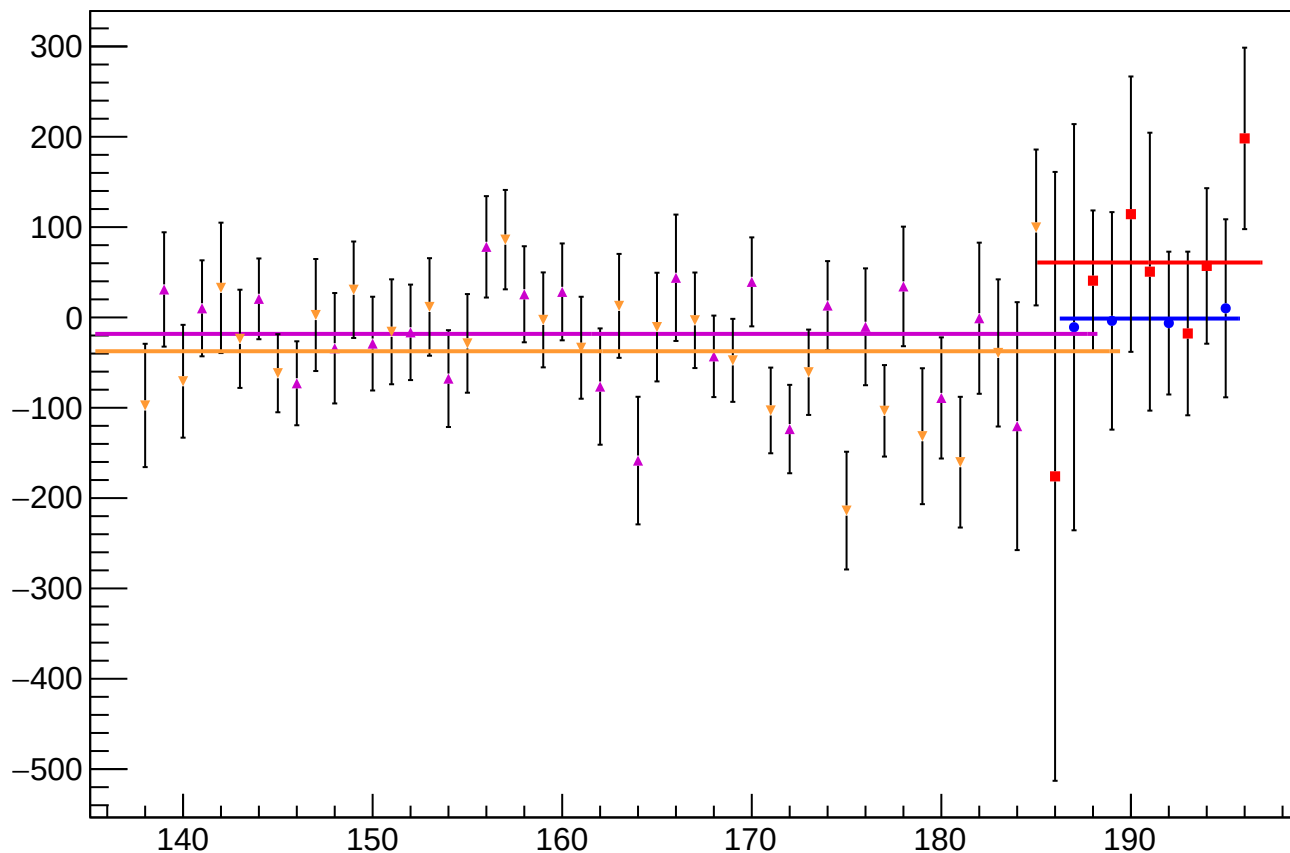
asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 2046.905 $\pm$ 0.956 χ^2 /NDF: 34369.6/3
 Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF:2472737.6/24
 Right Out: 2068.163 $\pm$ 0.716 χ^2 /NDF: 25140.4/6
 Left In: 473.983 $\pm$ 0.083 χ^2 /NDF:2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47
 Right: 2060.529 $\pm$ 0.573 χ^2 /NDF: 59827.0/10
 In: 485.767 $\pm$ 0.083 χ^2 /NDF:4808806.5/26
 Out: 497.104 $\pm$ 0.081 χ^2 /NDF:7381727.0/31
 All: 491.553 $\pm$ 0.058 χ^2 /NDF: 12200116.9/58

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1.235 ± 53.320 χ^2/NDF : 0.0/3

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 60.806 ± 40.309 χ^2/NDF : 3.3/6

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

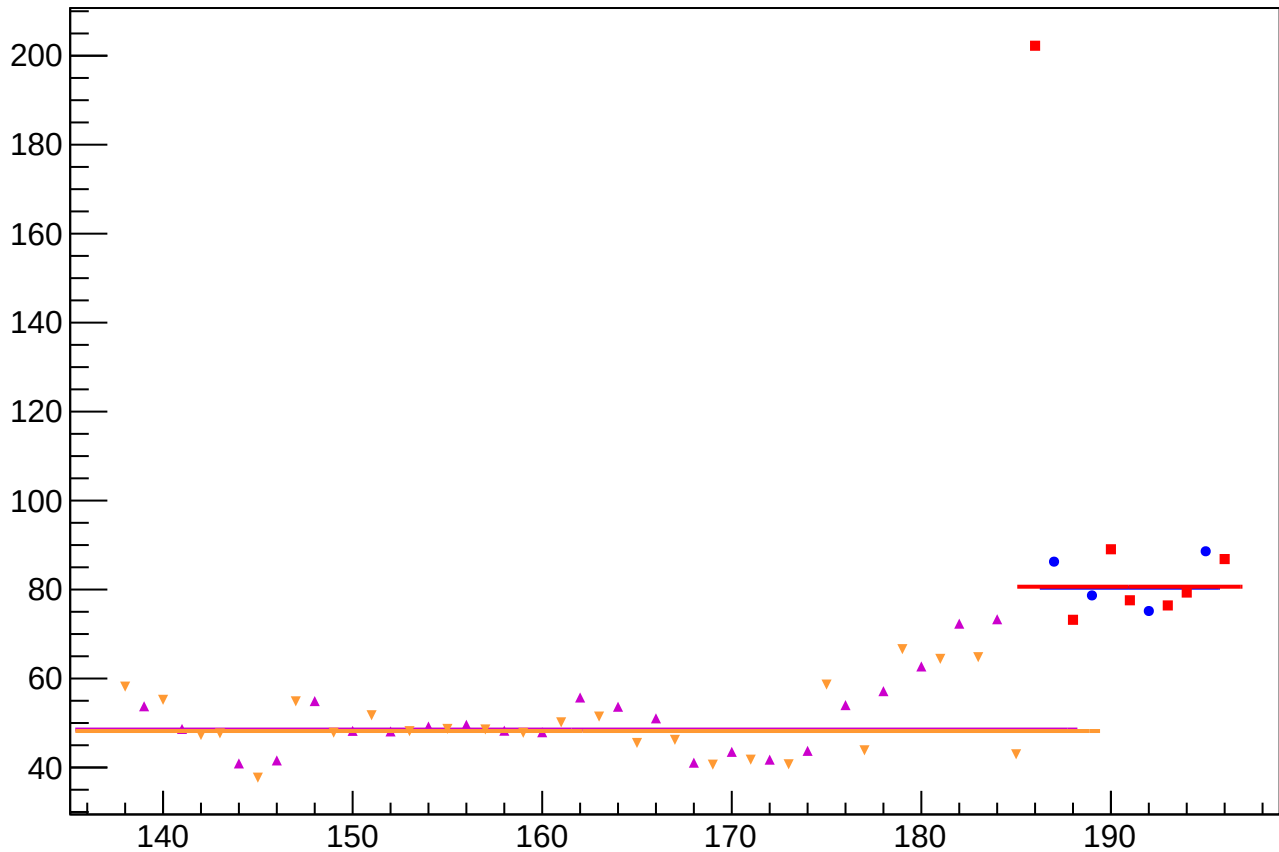
Right: 38.244 ± 32.155 χ^2/NDF : 4.2/10

In: -17.419 ± 11.510 χ^2/NDF : 23.1/26

Out: -30.151 ± 10.961 χ^2/NDF : 39.3/31

All: -24.096 ± 7.937 χ^2/NDF : 63.0/58

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 80.419 $\pm$ 0.038 χ^2 /NDF: 24358.8/3

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 80.637 $\pm$ 0.029 χ^2 /NDF: 298015.9/6

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

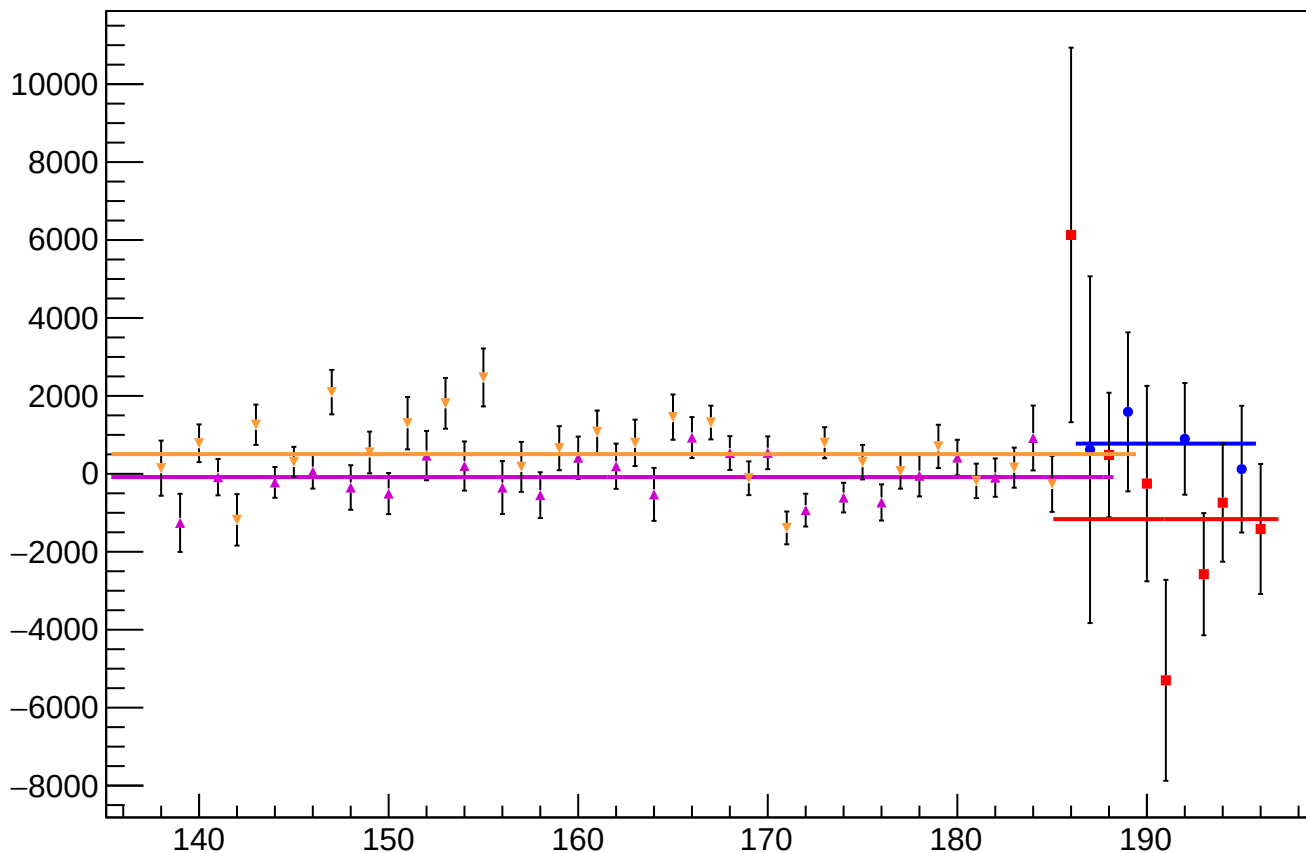
Right: 80.558 $\pm$ 0.023 χ^2 /NDF: 322396.1/10

In: 50.013 $\pm$ 0.008 χ^2 /NDF: 1381874.8/26

Out: 50.598 $\pm$ 0.008 χ^2 /NDF: 2247588.8/31

All: 50.320 $\pm$ 0.006 χ^2 /NDF: 3632174.3/58

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 775.451+/-930.257 χ^2/NDF : 0.3/3

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1161.610+/-716.513 χ^2/NDF : 7.0/6

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

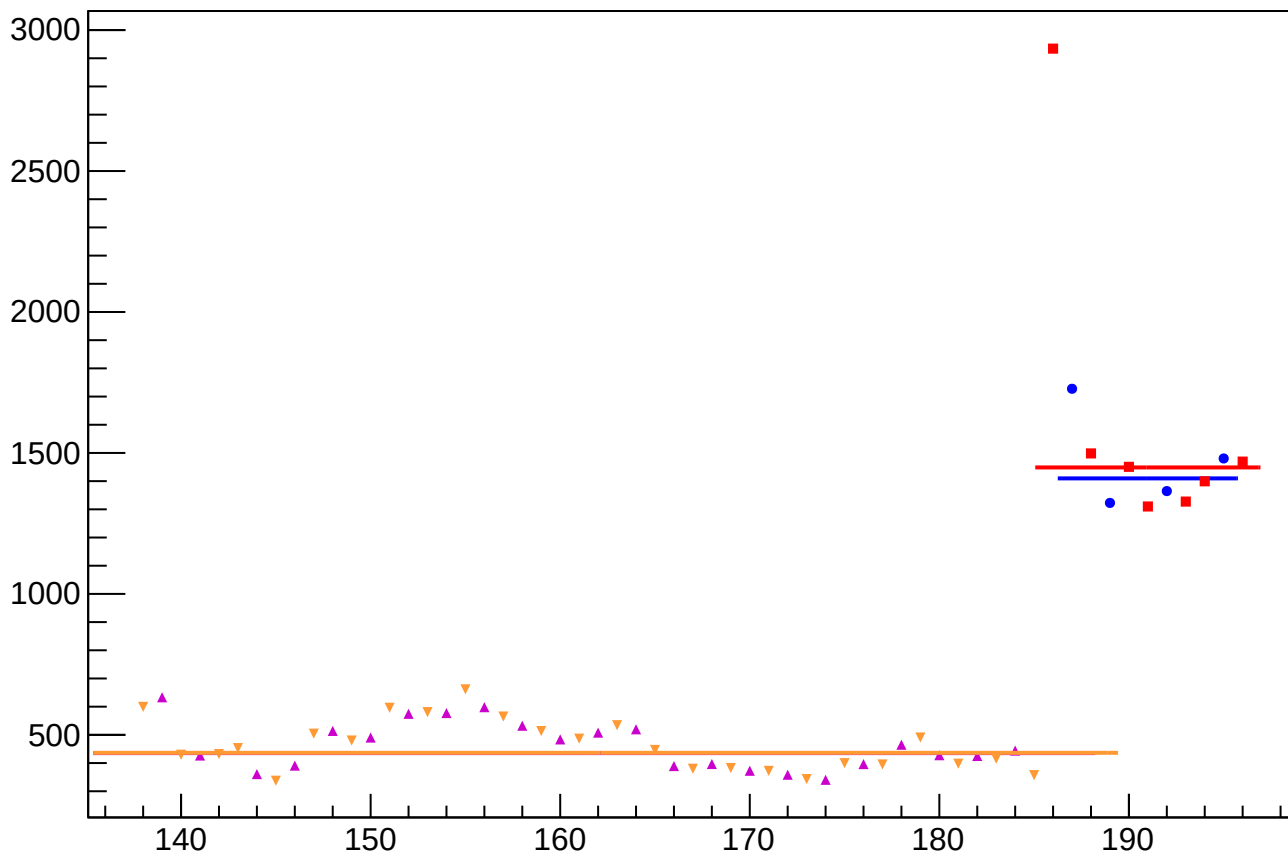
Right: -440.337+/-567.651 χ^2/NDF : 10.0/10

In: -71.438+/-105.255 χ^2/NDF : 26.5/26

Out: 472.137+/-102.405 χ^2/NDF : 78.0/31

All: 207.807+/-73.398 χ^2/NDF : 118.2/58

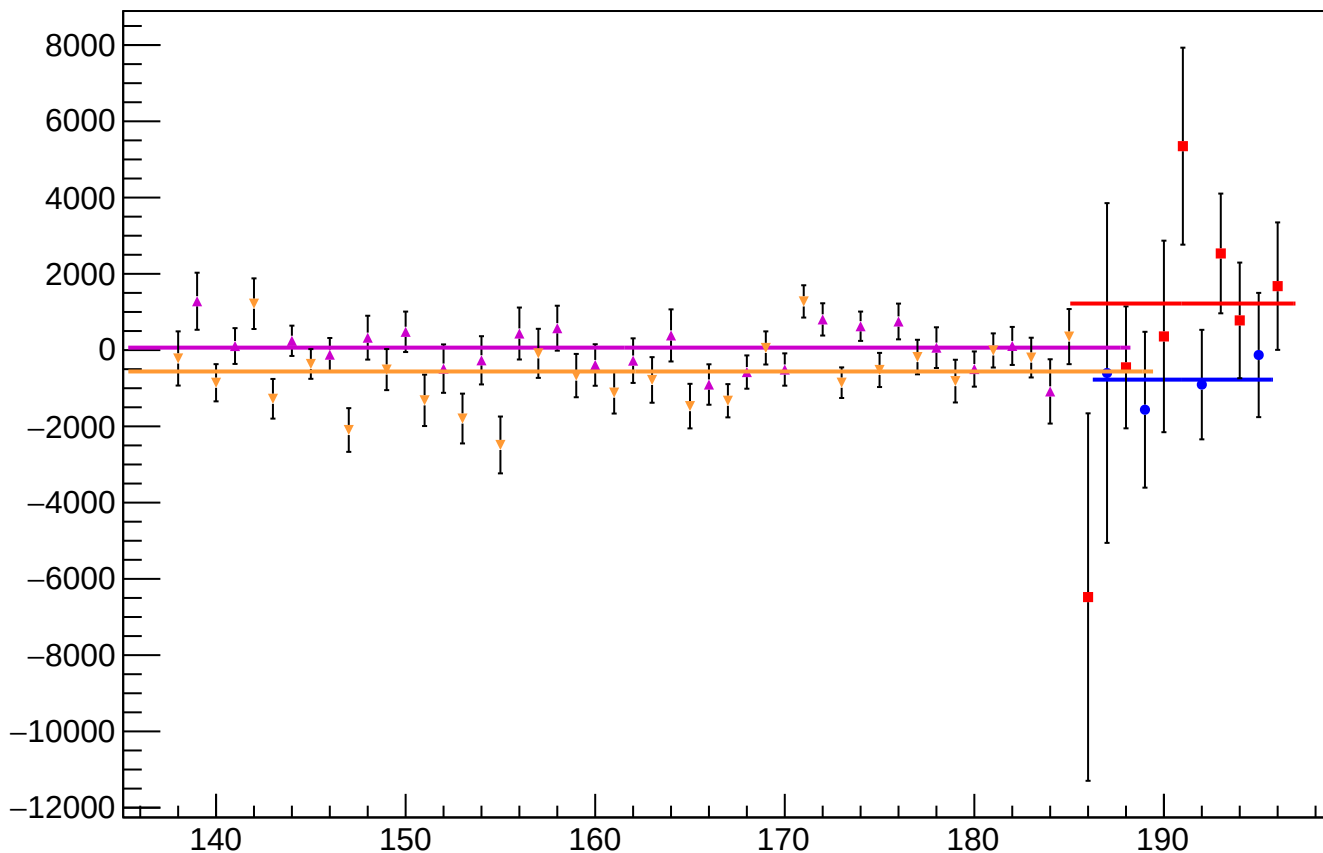
asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1409.749+/-0.658 χ^2/NDF : 19598.4/3
 Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24
 Right Out: 1448.596+/-0.507 χ^2/NDF : 213214.5/6
 Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47
 Right: 1434.131+/-0.401 χ^2/NDF : 235002.0/10
 In: 447.750+/-0.074 χ^2/NDF : 3213859.0/26
 Out: 456.979+/-0.072 χ^2/NDF : 5303062.2/31
 All: 452.491+/-0.052 χ^2/NDF : 8524820.4/58

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -774.608+/-931.902 χ^2/NDF : 0.3/3

Left Out: -560.684+/-104.207 χ^2/NDF : 61.8/24

Right Out: 1220.921+/-717.809 χ^2/NDF : 7.2/6

Left In: 64.594+/-106.708 χ^2/NDF : 25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

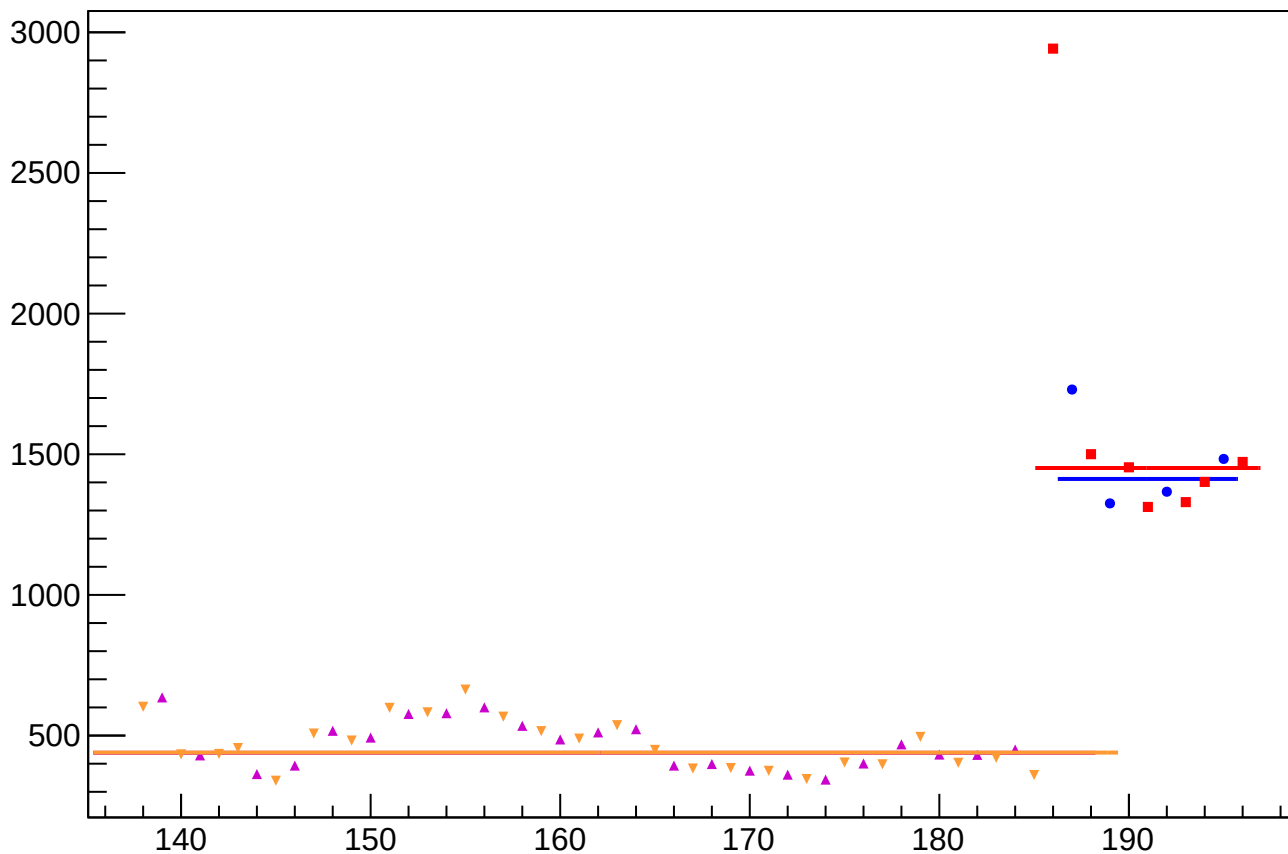
Right: 477.839+/-568.669 χ^2/NDF : 10.4/10

In: 53.734+/-106.015 χ^2/NDF : 26.3/26

Out: -523.911+/-103.126 χ^2/NDF : 75.0/31

All: -243.066+/-73.921 χ^2/NDF : 116.5/58

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1412.241 $\pm$ 0.659 χ^2 /NDF: 19620.0/3

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24

Right Out: 1451.199 $\pm$ 0.508 χ^2 /NDF: 213472.8/6

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

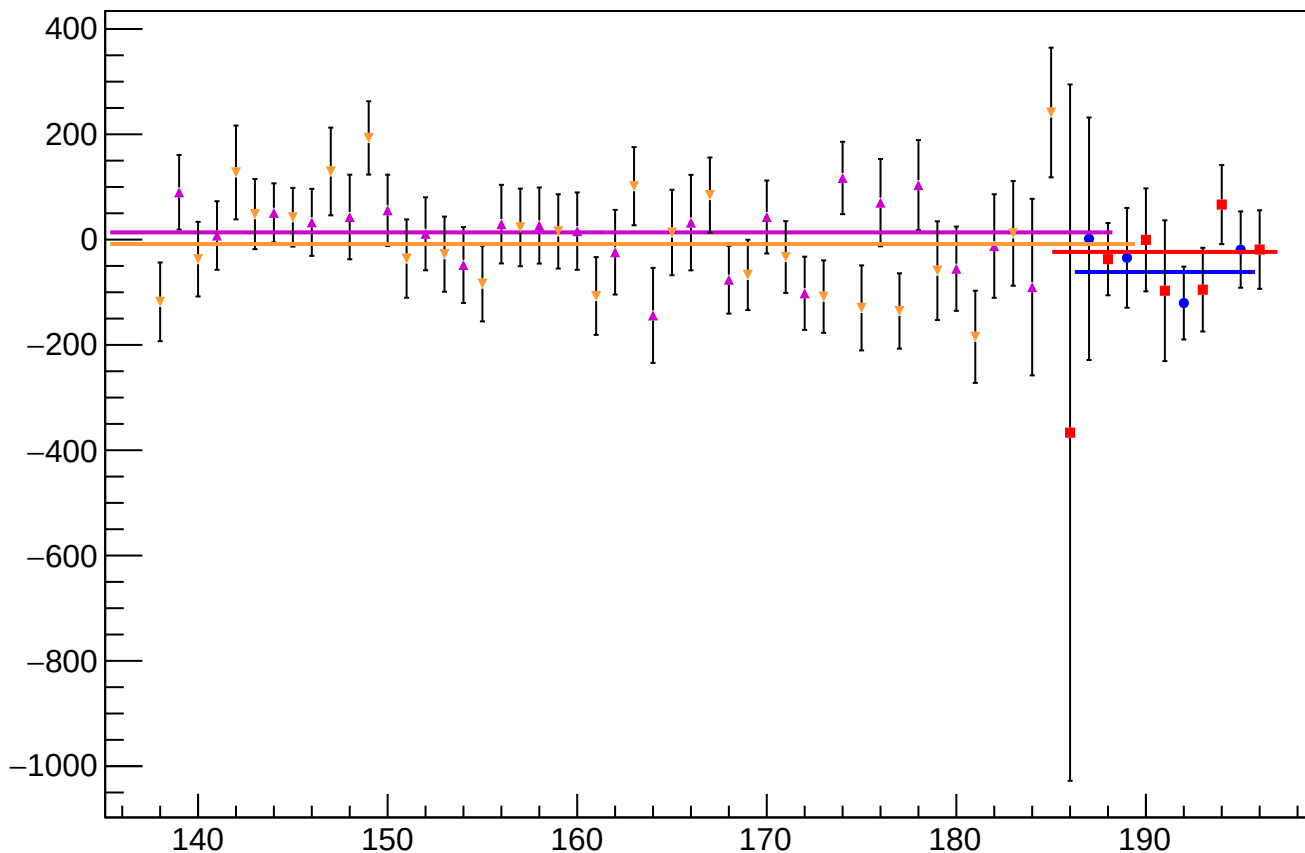
Right: 1436.692 $\pm$ 0.402 χ^2 /NDF: 235286.5/10

In: 451.149 $\pm$ 0.075 χ^2 /NDF:3187839.2/26

Out: 460.408 $\pm$ 0.073 χ^2 /NDF:5267580.8/31

All: 455.906 $\pm$ 0.052 χ^2 /NDF: 8463258.9/58

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -61.487 ± 43.464 $\chi^2/\text{NDF}: 1.2/3$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: -23.379 ± 33.505 $\chi^2/\text{NDF}: 2.9/6$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

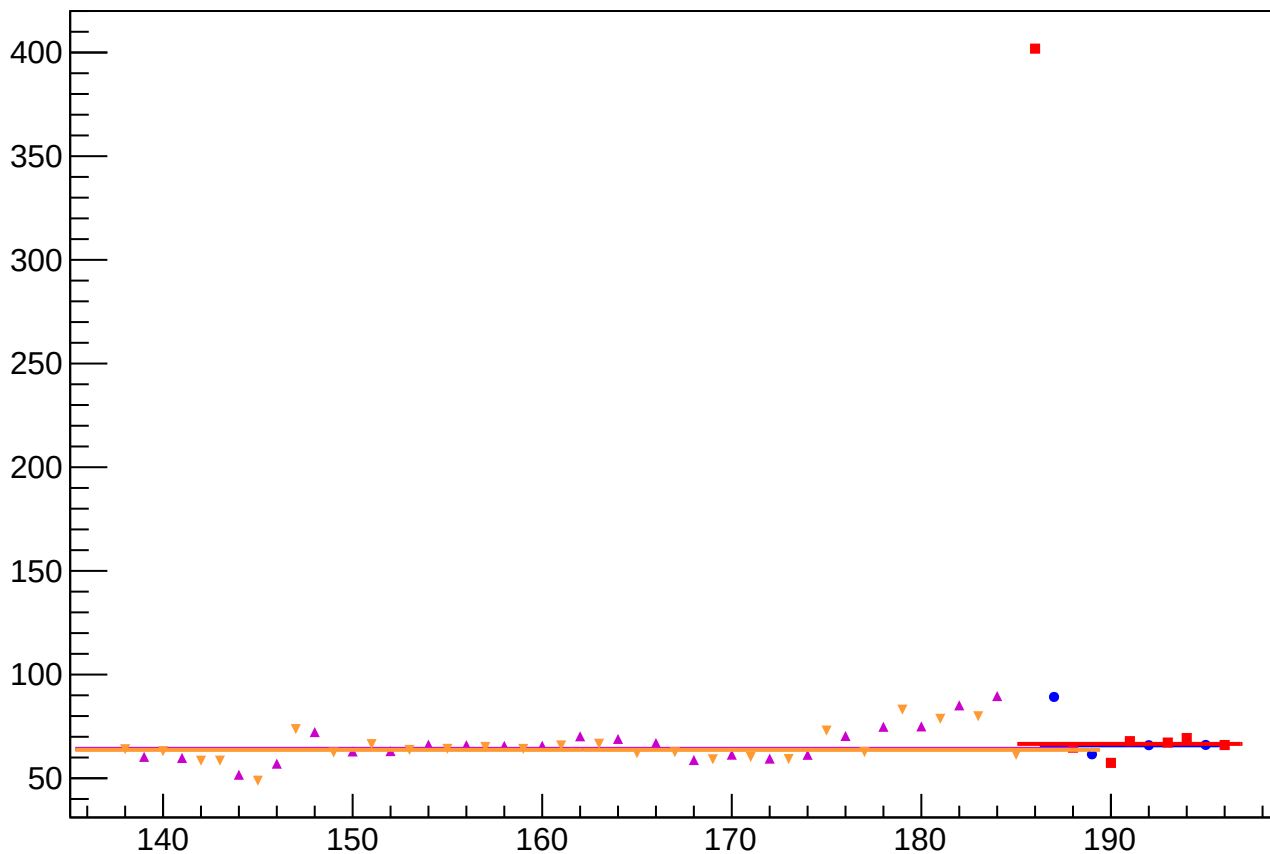
Right: -37.583 ± 26.536 $\chi^2/\text{NDF}: 4.6/10$

In: 5.259 ± 14.581 $\chi^2/\text{NDF}: 20.1/26$

Out: -10.896 ± 13.641 $\chi^2/\text{NDF}: 44.7/31$

All: -3.356 ± 9.961 $\chi^2/\text{NDF}: 65.5/58$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 65.889 $\pm$ 0.031 χ^2 /NDF: 24742.5/3

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 66.570 $\pm$ 0.024 χ^2 /NDF: 536501.0/6

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

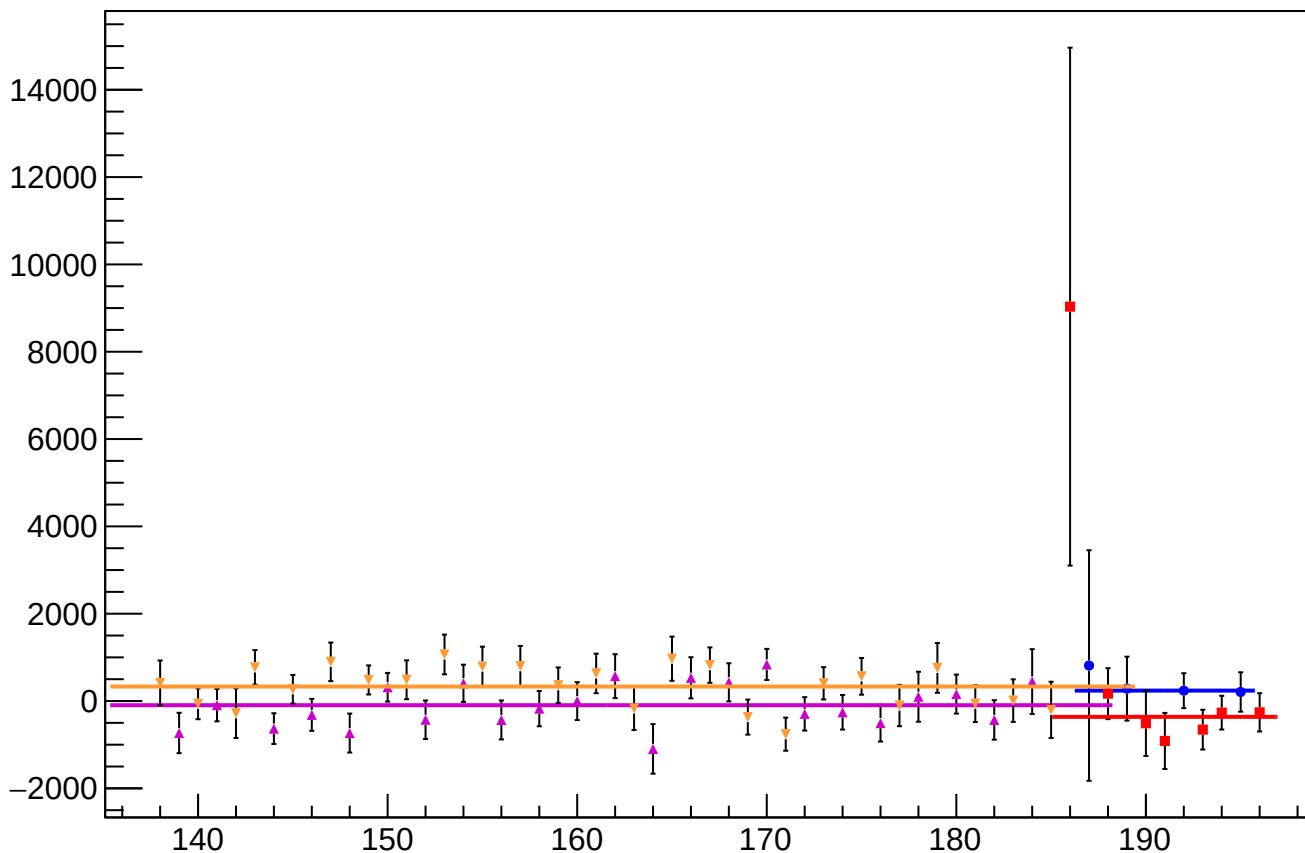
Right: 66.316 $\pm$ 0.019 χ^2 /NDF: 561551.9/10

In: 64.380 $\pm$ 0.010 χ^2 /NDF: 457127.5/26

Out: 64.172 $\pm$ 0.010 χ^2 /NDF: 997219.3/31

All: 64.270 $\pm$ 0.007 χ^2 /NDF: 1454563.9/58

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 238.758 ± 275.434 $\chi^2/NDF: 0.1/3$

Left Out: 331.739 ± 86.071 $\chi^2/NDF: 29.9/24$

Right Out: -362.739 ± 204.587 $\chi^2/NDF: 4.6/6$

Left In: -95.910 ± 88.656 $\chi^2/NDF: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/NDF: 70.5/47$

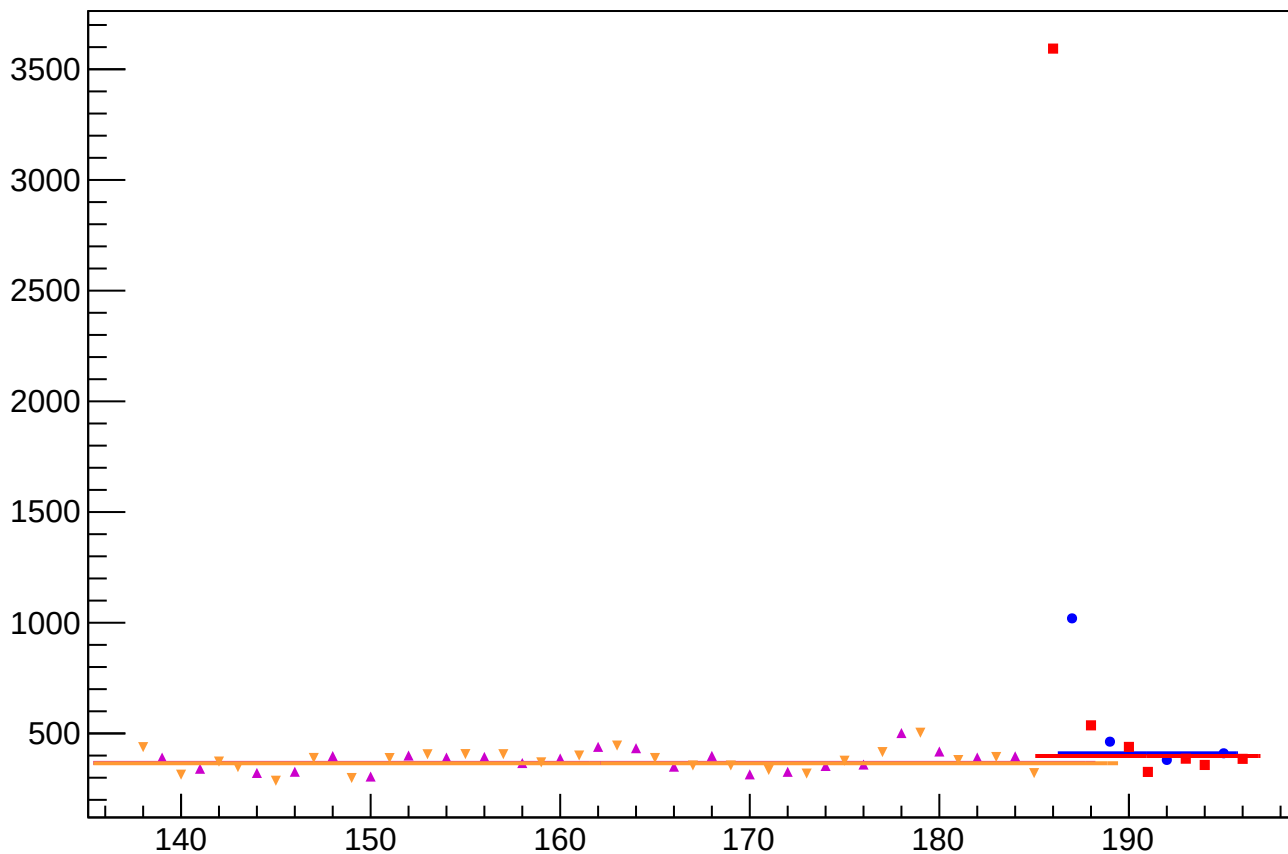
Right: -148.874 ± 164.237 $\chi^2/NDF: 7.8/10$

In: -64.492 ± 84.392 $\chi^2/NDF: 30.1/26$

Out: 227.305 ± 79.336 $\chi^2/NDF: 44.3/31$

All: 90.409 ± 57.804 $\chi^2/NDF: 80.7/58$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 410.149+/-0.195 χ^2/NDF : 128150.4/3

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 398.089+/-0.145 χ^2/NDF : 749369.9/6

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

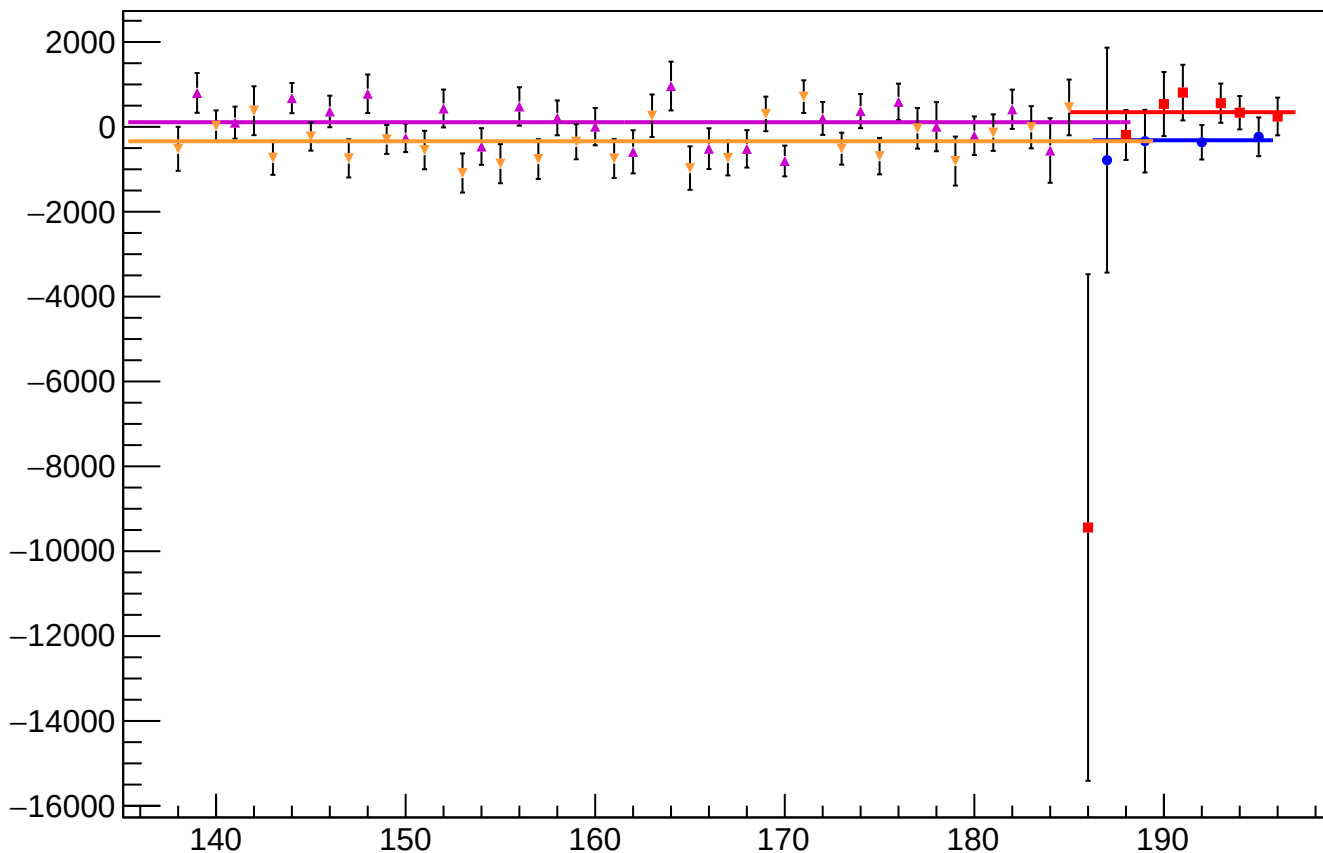
Right: 402.377+/-0.116 χ^2/NDF : 879991.2/10

In: 370.982+/-0.060 χ^2/NDF : 650863.2/26

Out: 370.278+/-0.056 χ^2/NDF : 1411323.6/31

All: 370.608+/-0.041 χ^2/NDF : 2062260.8/58

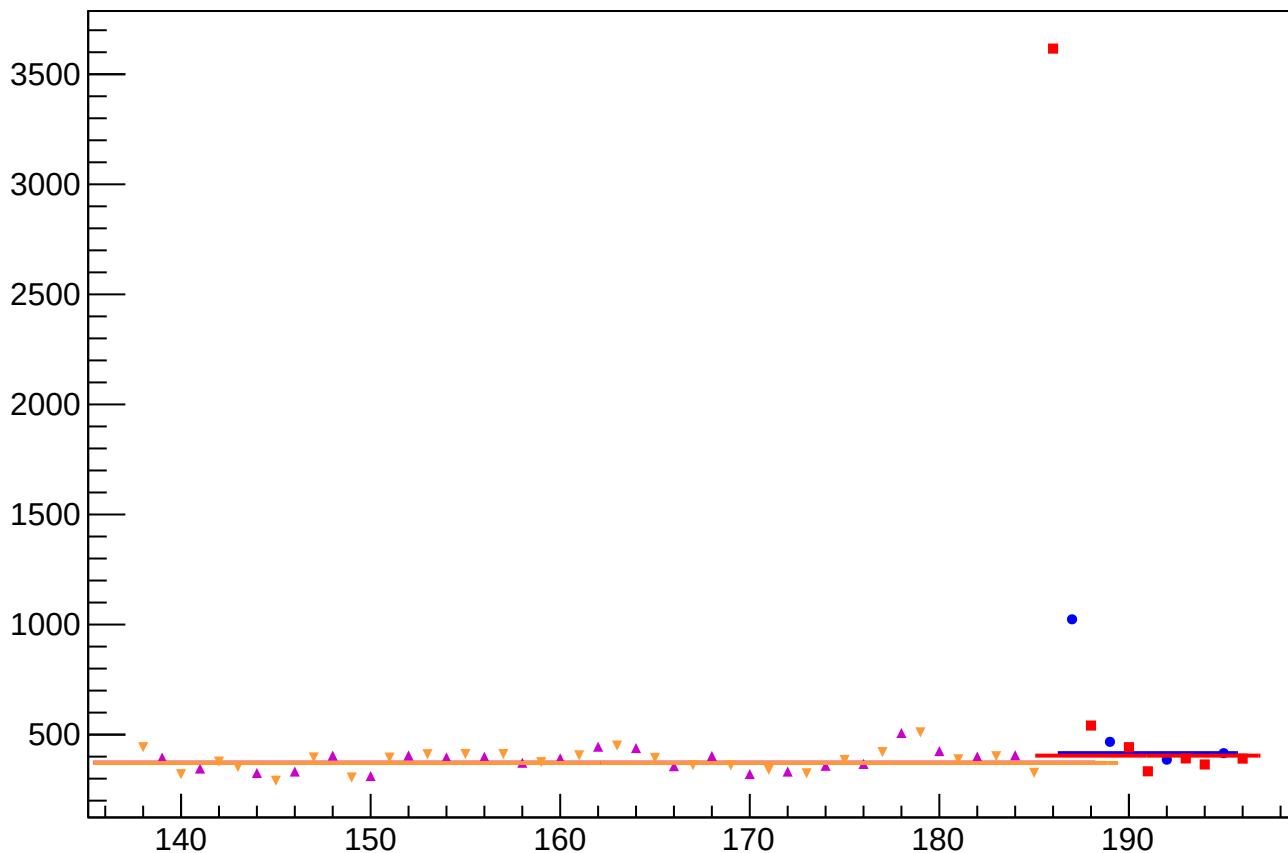
asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -315.736 ± 279.137 $\chi^2/\text{NDF}: 0.1/3$
 Left Out: -338.528 ± 87.450 $\chi^2/\text{NDF}: 28.2/24$
 Right Out: 345.299 ± 207.756 $\chi^2/\text{NDF}: 4.3/6$
 Left In: 110.341 ± 90.084 $\chi^2/\text{NDF}: 29.2/22$

Left: -120.751 ± 62.747 $\chi^2/\text{NDF}: 70.2/47$
 Right: 109.653 ± 166.661 $\chi^2/\text{NDF}: 8.0/10$
 In: 70.150 ± 85.730 $\chi^2/\text{NDF}: 31.4/26$
 Out: -235.604 ± 80.601 $\chi^2/\text{NDF}: 41.8/31$
 All: -92.146 ± 58.723 $\chi^2/\text{NDF}: 79.9/58$

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 415.844 $\pm$ 0.197 χ^2 /NDF: 125694.7/3

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 404.591 $\pm$ 0.147 χ^2 /NDF: 740041.2/6

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

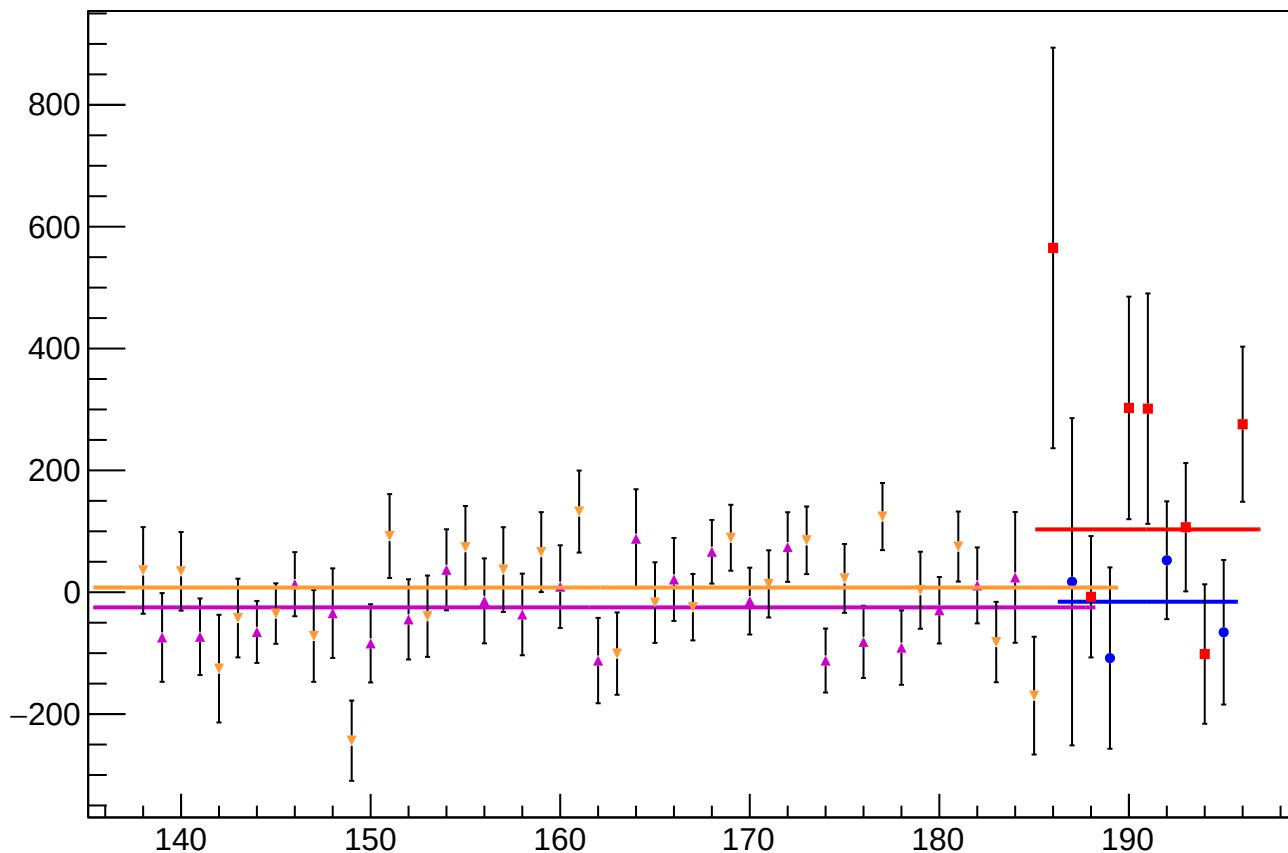
Right: 408.603 $\pm$ 0.118 χ^2 /NDF: 867827.6/10

In: 376.985 $\pm$ 0.061 χ^2 /NDF: 635833.0/26

Out: 376.358 $\pm$ 0.057 χ^2 /NDF: 1387591.4/31

All: 376.652 $\pm$ 0.042 χ^2 /NDF: 2023481.2/58

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -15.578 ± 64.952 χ^2/NDF : 1.1/3

Left Out: 7.723 ± 12.656 χ^2/NDF : 45.4/24

Right Out: 103.151 ± 50.238 χ^2/NDF : 10.5/6

Left In: -24.887 ± 13.029 χ^2/NDF : 19.7/22

Left: -8.108 ± 9.078 χ^2/NDF : 68.4/47

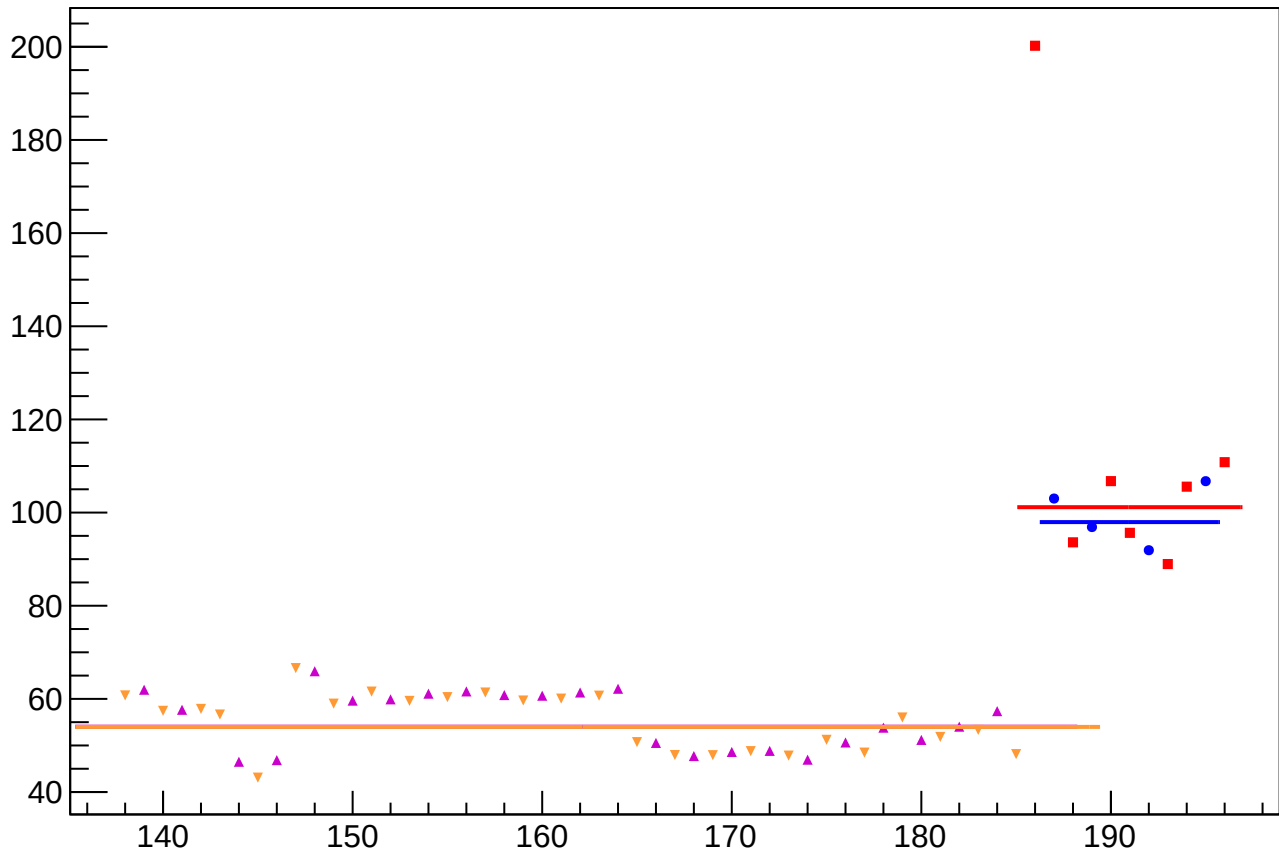
Right: 58.709 ± 39.739 χ^2/NDF : 13.7/10

In: -24.527 ± 12.774 χ^2/NDF : 20.8/26

Out: 13.418 ± 12.272 χ^2/NDF : 59.3/31

All: -4.794 ± 8.850 χ^2/NDF : 84.8/58

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 97.956 $\pm$ 0.046 χ^2 /NDF: 19575.4/3

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 101.159 $\pm$ 0.036 χ^2 /NDF: 238045.2/6

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

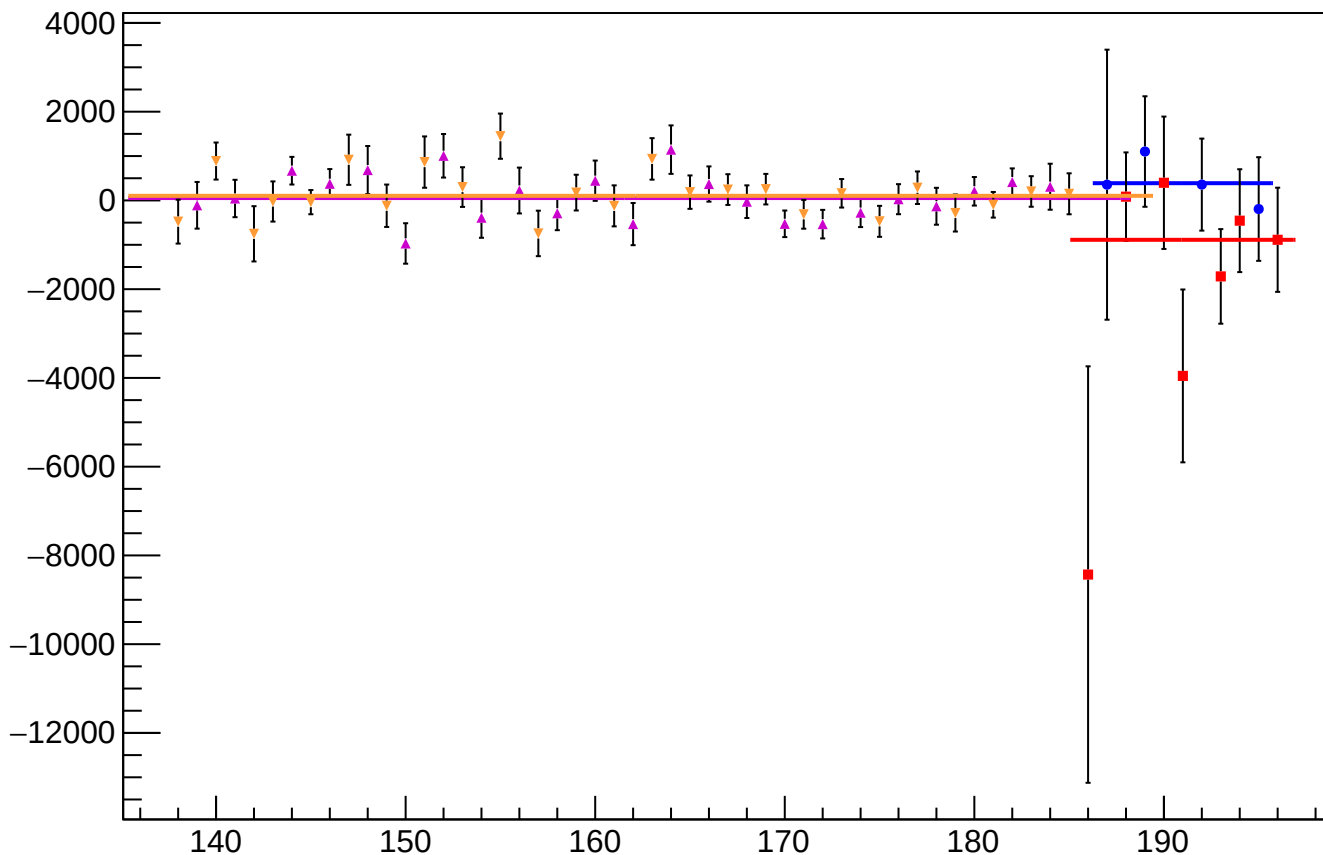
Right: 99.960 $\pm$ 0.028 χ^2 /NDF: 260662.4/10

In: 55.727 $\pm$ 0.009 χ^2 /NDF: 1342826.2/26

Out: 56.799 $\pm$ 0.009 χ^2 /NDF: 2355315.1/31

All: 56.284 $\pm$ 0.006 χ^2 /NDF: 3705464.9/58

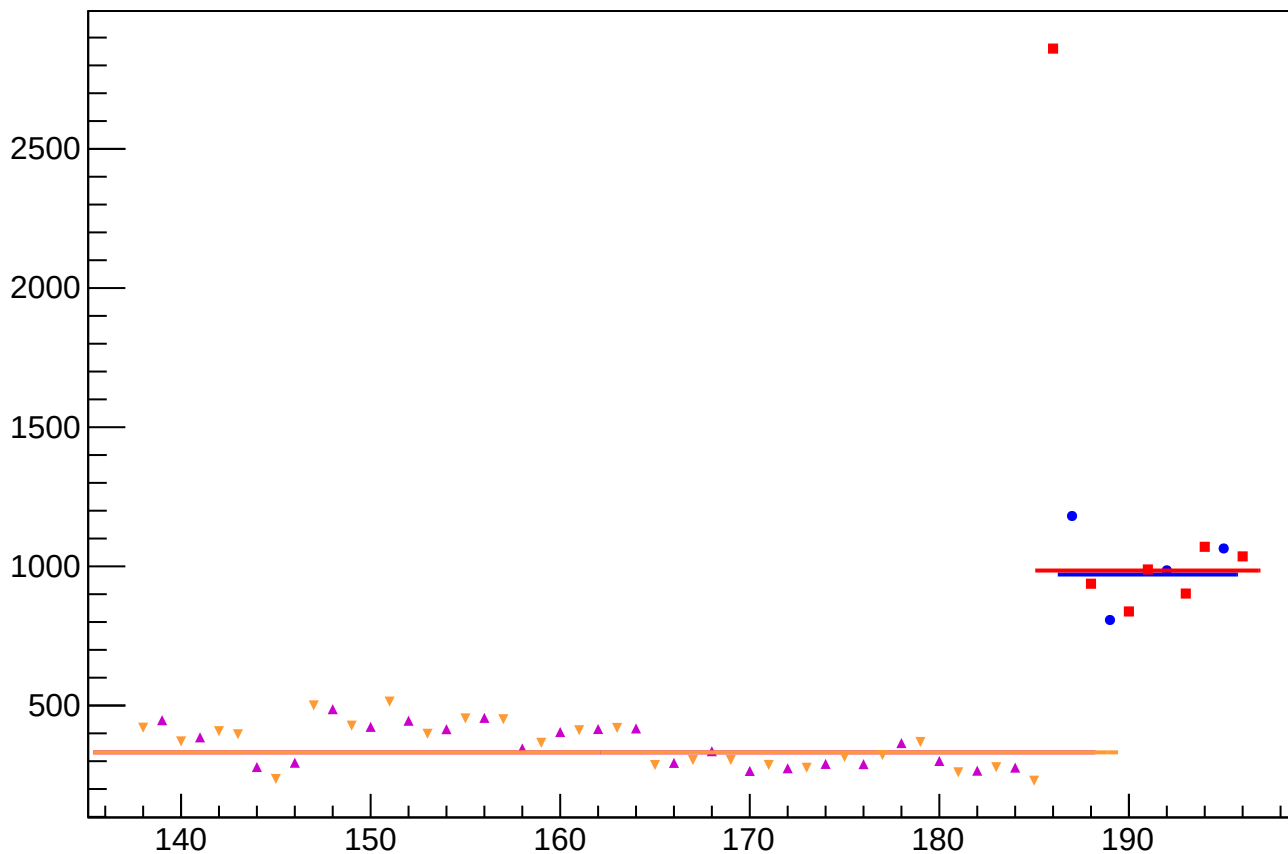
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 388.526 ± 643.277 χ^2/NDF : 0.6/3
 Left Out: 103.768 ± 79.344 χ^2/NDF : 31.0/24
 Right Out: -887.633 ± 493.026 χ^2/NDF : 7.5/6
 Left In: 53.493 ± 81.201 χ^2/NDF : 34.1/22

Left: 79.212 ± 56.750 χ^2/NDF : 65.3/47
 Right: -415.398 ± 391.314 χ^2/NDF : 10.6/10
 In: 58.748 ± 80.562 χ^2/NDF : 34.9/26
 Out: 78.739 ± 78.336 χ^2/NDF : 42.4/31
 All: 69.023 ± 56.162 χ^2/NDF : 77.4/58

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 970.738 $\pm$ 0.455 χ^2 /NDF: 57271.5/3

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF: 1711721.9/24

Right Out: 985.051 $\pm$ 0.349 χ^2 /NDF: 369963.5/6

Left In: 331.666 $\pm$ 0.057 χ^2 /NDF: 1303192.2/22

Left: 331.719 $\pm$ 0.040 χ^2 /NDF: 3014915.7/47

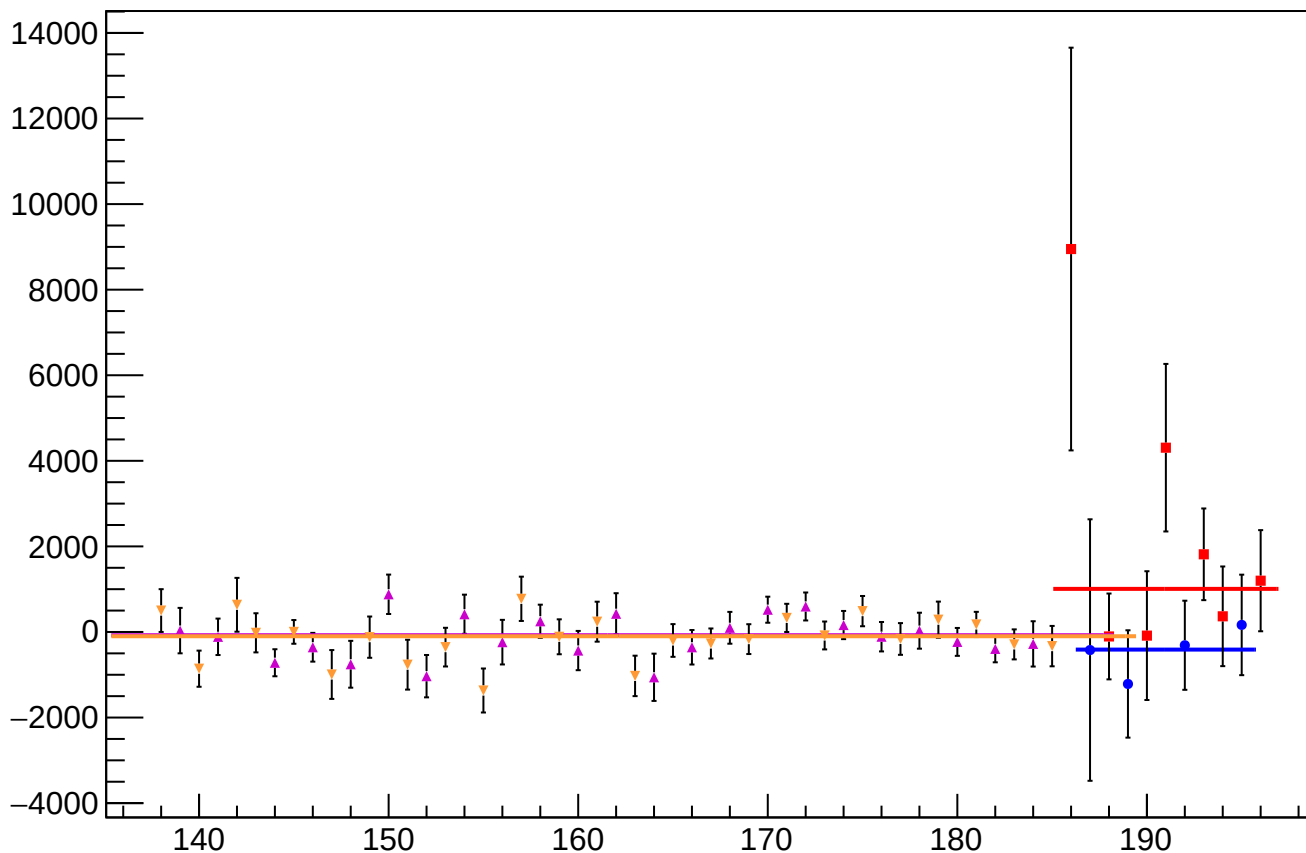
Right: 979.754 $\pm$ 0.277 χ^2 /NDF: 427858.7/10

In: 341.689 $\pm$ 0.057 χ^2 /NDF: 3303441.3/26

Out: 348.263 $\pm$ 0.055 χ^2 /NDF: 5504508.2/31

All: 345.068 $\pm$ 0.040 χ^2 /NDF: 8814794.3/58

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -411.716 ± 646.856 χ^2/NDF : 0.7/3

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 1007.212 ± 495.909 χ^2/NDF : 8.3/6

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

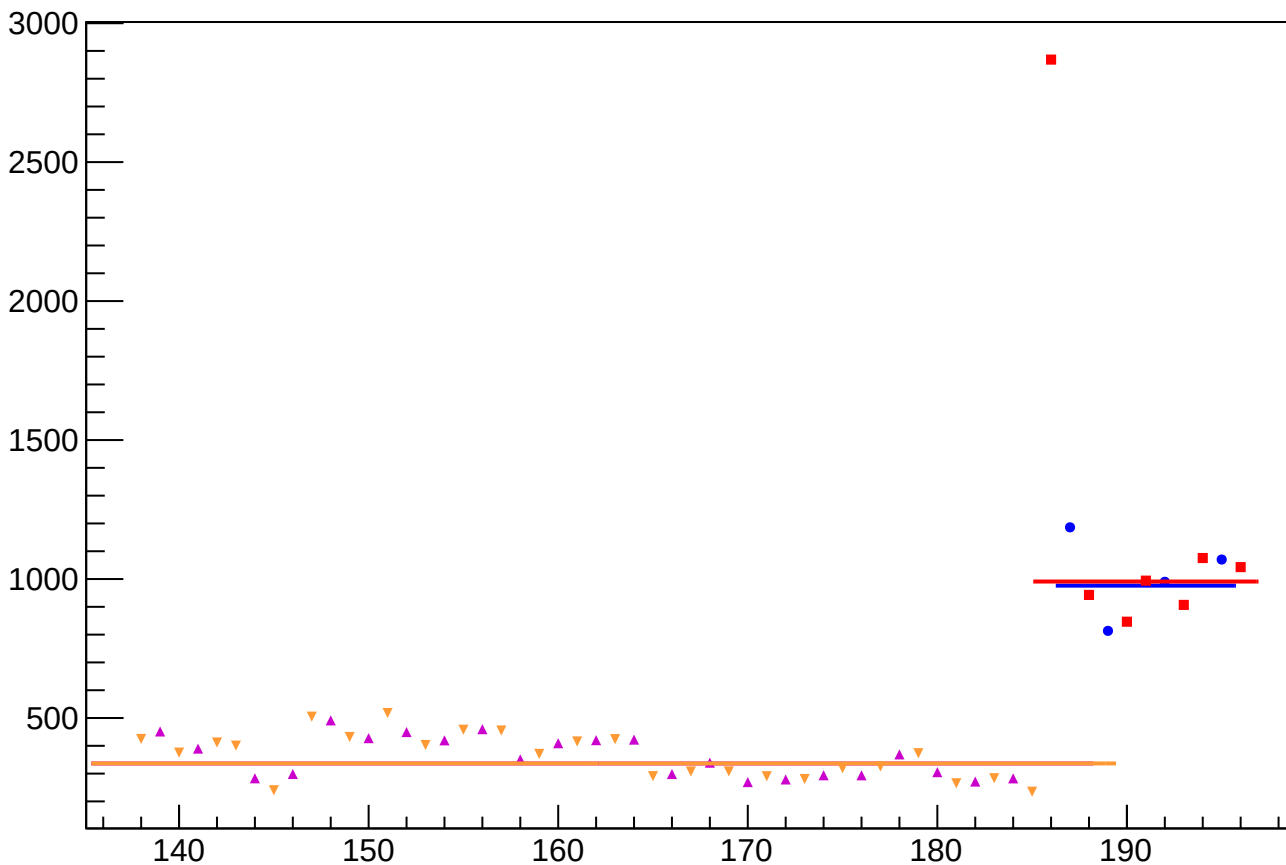
Right: 481.959 ± 393.560 χ^2/NDF : 12.0/10

In: -80.936 ± 81.660 χ^2/NDF : 33.0/26

Out: -71.414 ± 79.391 χ^2/NDF : 43.9/31

All: -76.041 ± 56.923 χ^2/NDF : 76.9/58

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 976.237 $\pm$ 0.457 χ^2 /NDF: 56225.5/3

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 991.036 $\pm$ 0.351 χ^2 /NDF: 368173.8/6

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF: 1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

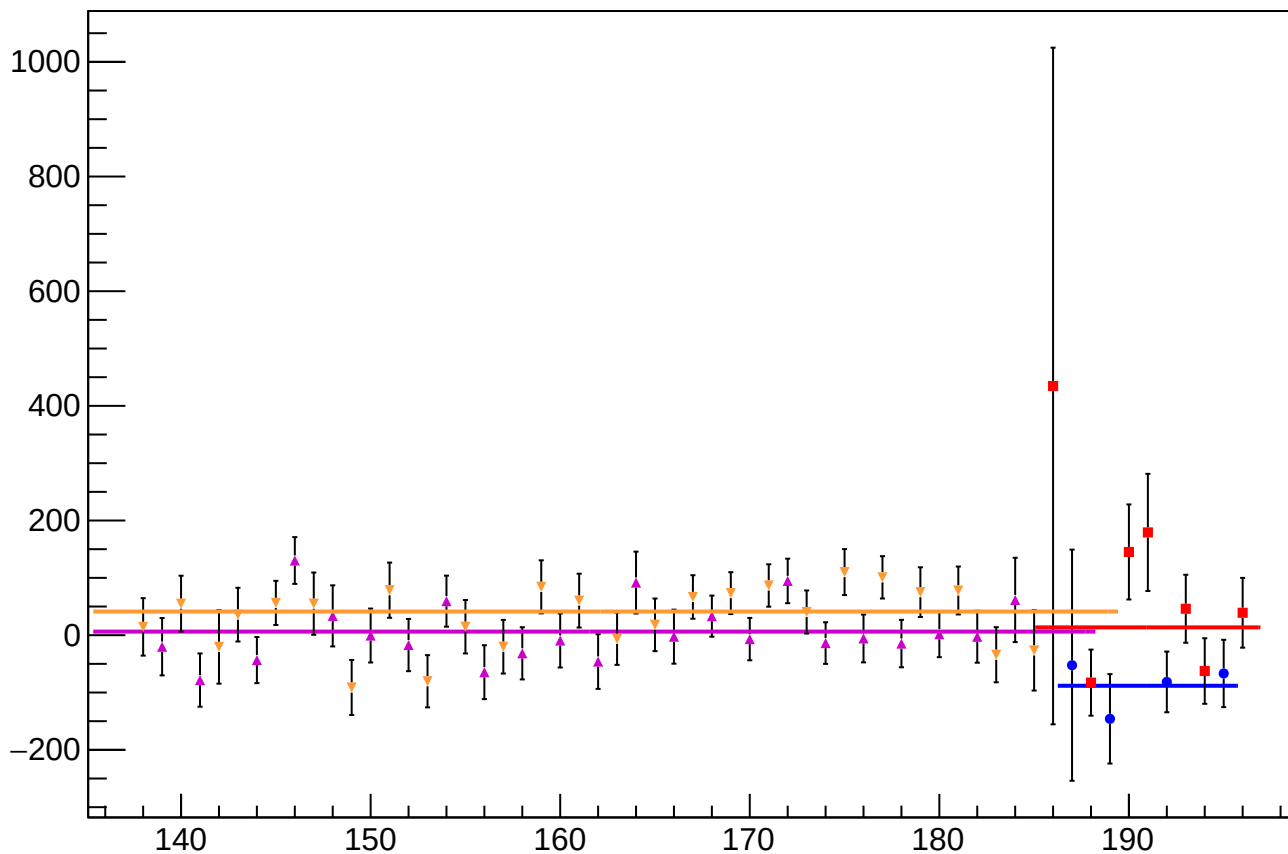
Right: 985.557 $\pm$ 0.278 χ^2 /NDF: 425058.6/10

In: 346.636 $\pm$ 0.058 χ^2 /NDF: 3250700.8/26

Out: 353.331 $\pm$ 0.056 χ^2 /NDF: 5428319.5/31

All: 350.078 $\pm$ 0.040 χ^2 /NDF: 8685932.1/58

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -88.215 ± 34.585 χ^2/NDF : 0.7/3

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 13.628 ± 26.671 χ^2/NDF : 10.7/6

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

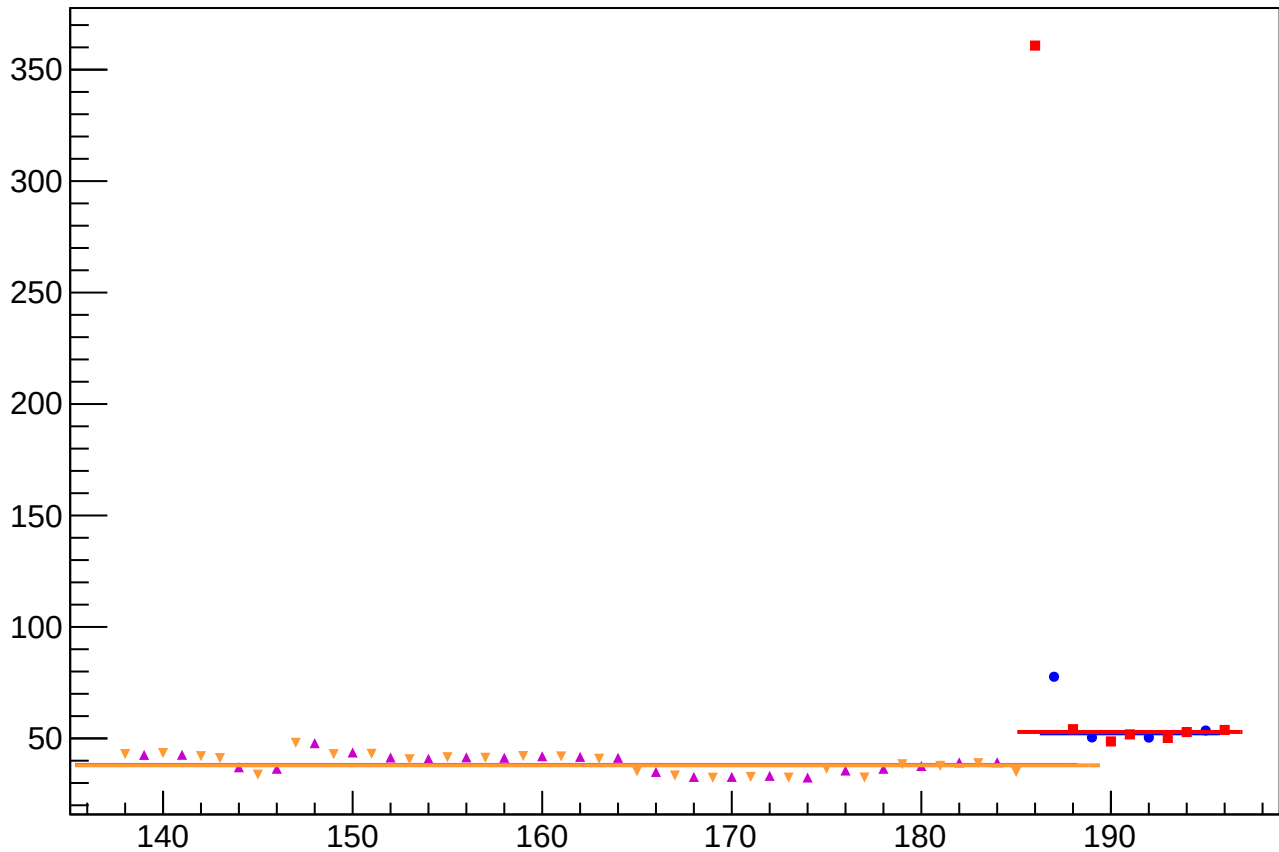
Right: -24.352 ± 21.120 χ^2/NDF : 16.9/10

In: 0.043 ± 8.868 χ^2/NDF : 38.0/26

Out: 38.518 ± 8.433 χ^2/NDF : 46.0/31

All: 20.247 ± 6.111 χ^2/NDF : 93.9/58

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 52.283+/-0.024 χ^2/NDF : 36353.5/3

Left Out: 37.925+/-0.006 χ^2/NDF : 487085.3/24

Right Out: 52.893+/-0.019 χ^2/NDF : 555397.5/6

Left In: 38.087+/-0.006 χ^2/NDF : 396334.5/22

Left: 38.004+/-0.005 χ^2/NDF : 883742.3/47

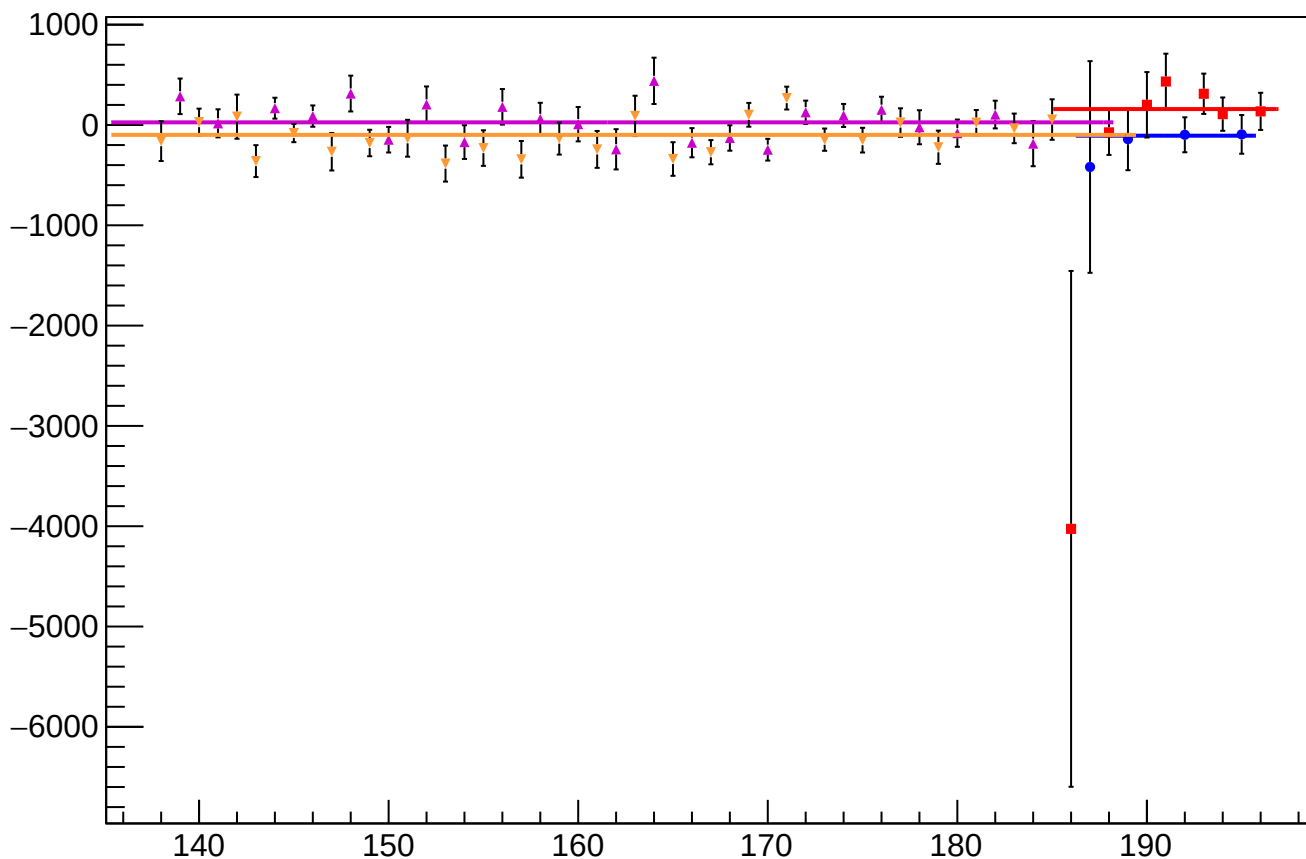
Right: 52.665+/-0.015 χ^2/NDF : 592141.5/10

In: 39.021+/-0.006 χ^2/NDF : 747481.1/26

Out: 39.422+/-0.006 χ^2/NDF : 1609421.0/31

All: 39.231+/-0.004 χ^2/NDF : 2359049.1/58

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -106.718 $\pm$ 118.580 χ^2 /NDF: 0.1/3

Left Out: -98.741 $\pm$ 29.095 χ^2 /NDF:32.7/24

Right Out: 158.590 $\pm$ 86.880 χ^2 /NDF: 5.4/6

Left In: 26.223 $\pm$ 29.676 χ^2 /NDF:30.7/22

Left: -37.493 $\pm$ 20.776 χ^2 /NDF: 72.5/47

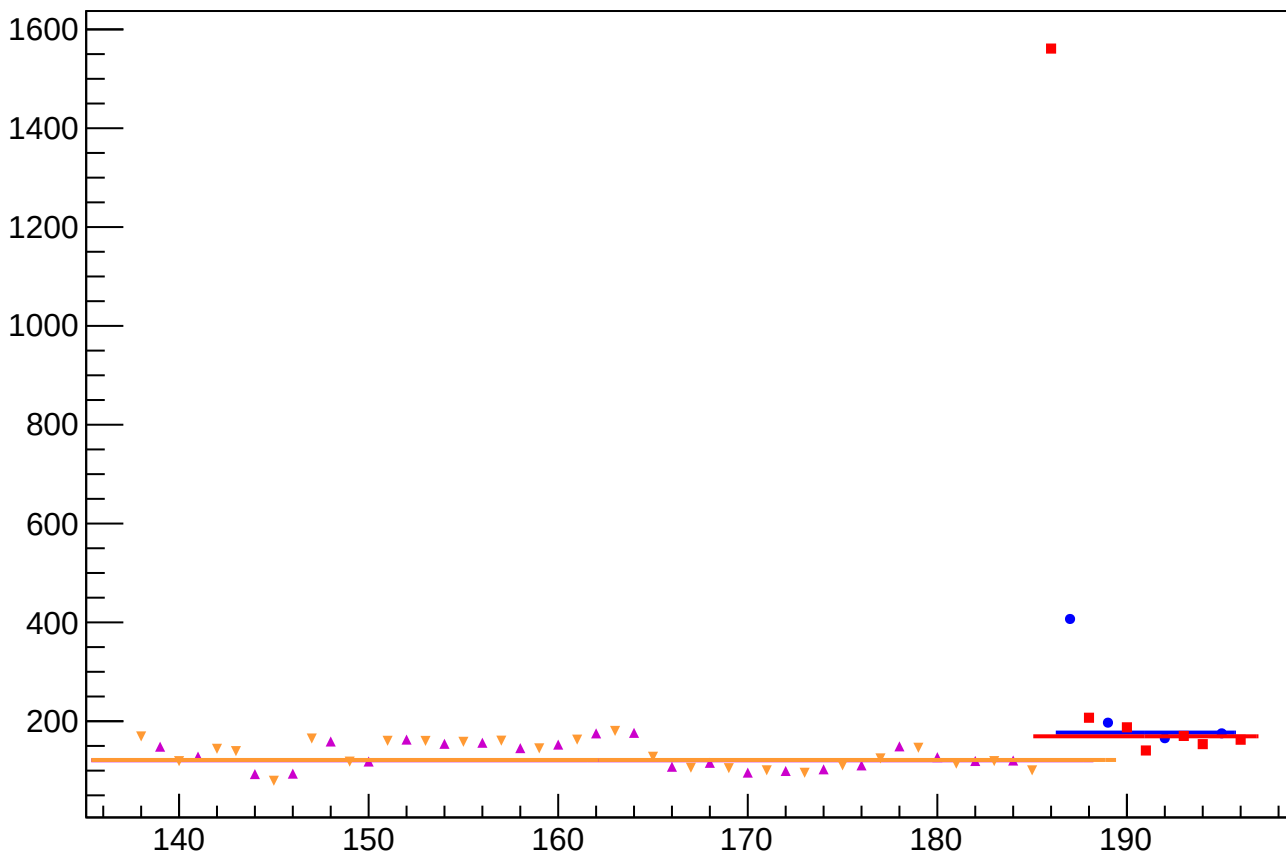
Right: 65.918 $\pm$ 70.083 χ^2 /NDF: 8.8/10

In: 18.387 $\pm$ 28.788 χ^2 /NDF:32.0/26

Out: -72.791 $\pm$ 27.589 χ^2 /NDF:46.0/31

All: -29.139 $\pm$ 19.919 χ^2 /NDF: 83.2/58

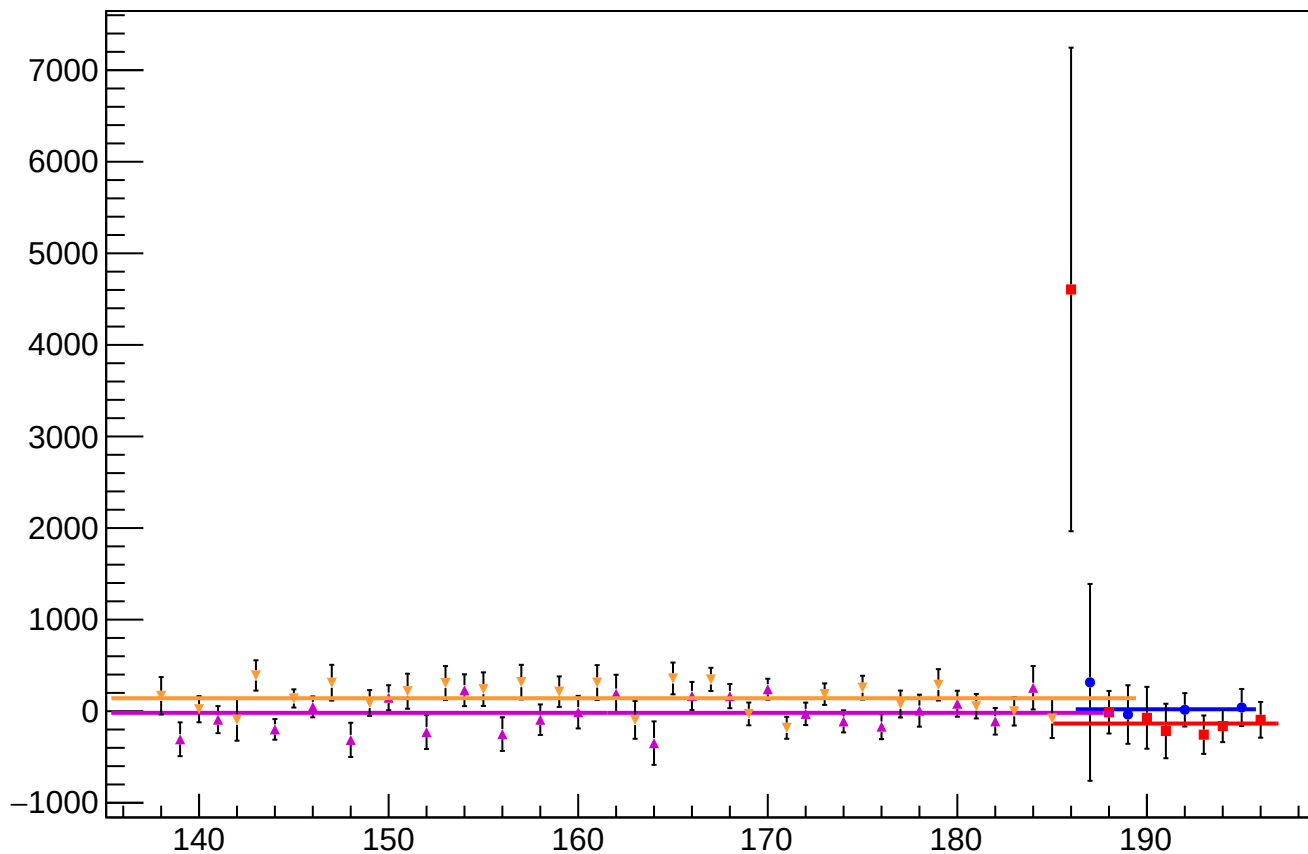
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 177.003 $\pm$ 0.084 χ^2 /NDF: 112054.8/3
 Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24
 Right Out: 169.454 $\pm$ 0.061 χ^2 /NDF: 690472.5/6
 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: 172.091 $\pm$ 0.050 χ^2 /NDF: 807801.4/10
 In: 124.232 $\pm$ 0.020 χ^2 /NDF:1915818.2/26
 Out: 126.419 $\pm$ 0.020 χ^2 /NDF:2947672.2/31
 All: 125.372 $\pm$ 0.014 χ^2 /NDF: 4869505.1/58

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 21.115 $\pm$ 123.790 χ^2 /NDF: 0.1/3

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF:26.9/24

Right Out: -134.549 $\pm$ 91.298 χ^2 /NDF: 4.0/6

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF:30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

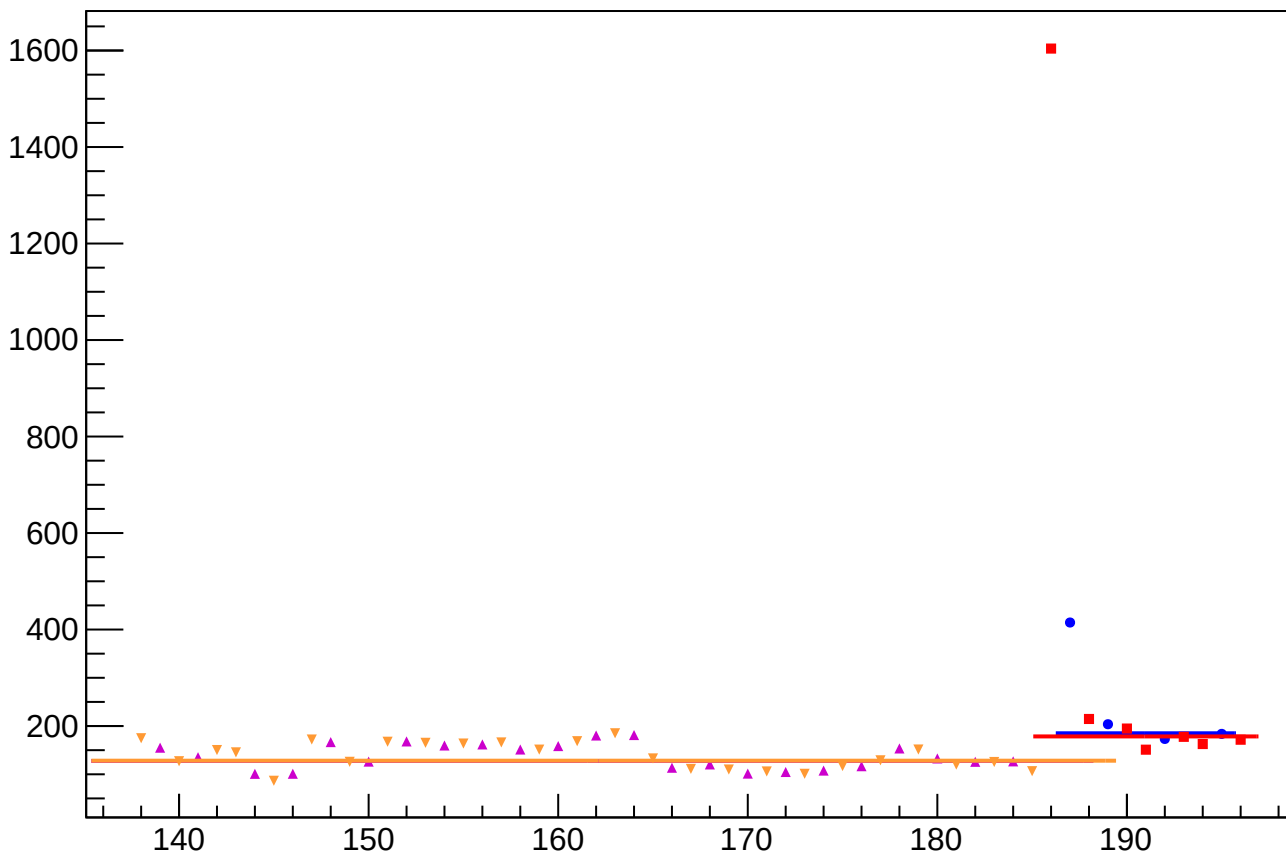
Right: -79.707 $\pm$ 73.476 χ^2 /NDF: 5.2/10

In: -15.361 $\pm$ 30.262 χ^2 /NDF:30.4/26

Out: 114.126 $\pm$ 28.992 χ^2 /NDF:39.1/31

All: 52.156 $\pm$ 20.935 χ^2 /NDF: 79.0/58

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 184.983 $\pm$ 0.088 χ^2 /NDF: 106474.1/3

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 178.476 $\pm$ 0.065 χ^2 /NDF: 671767.8/6

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

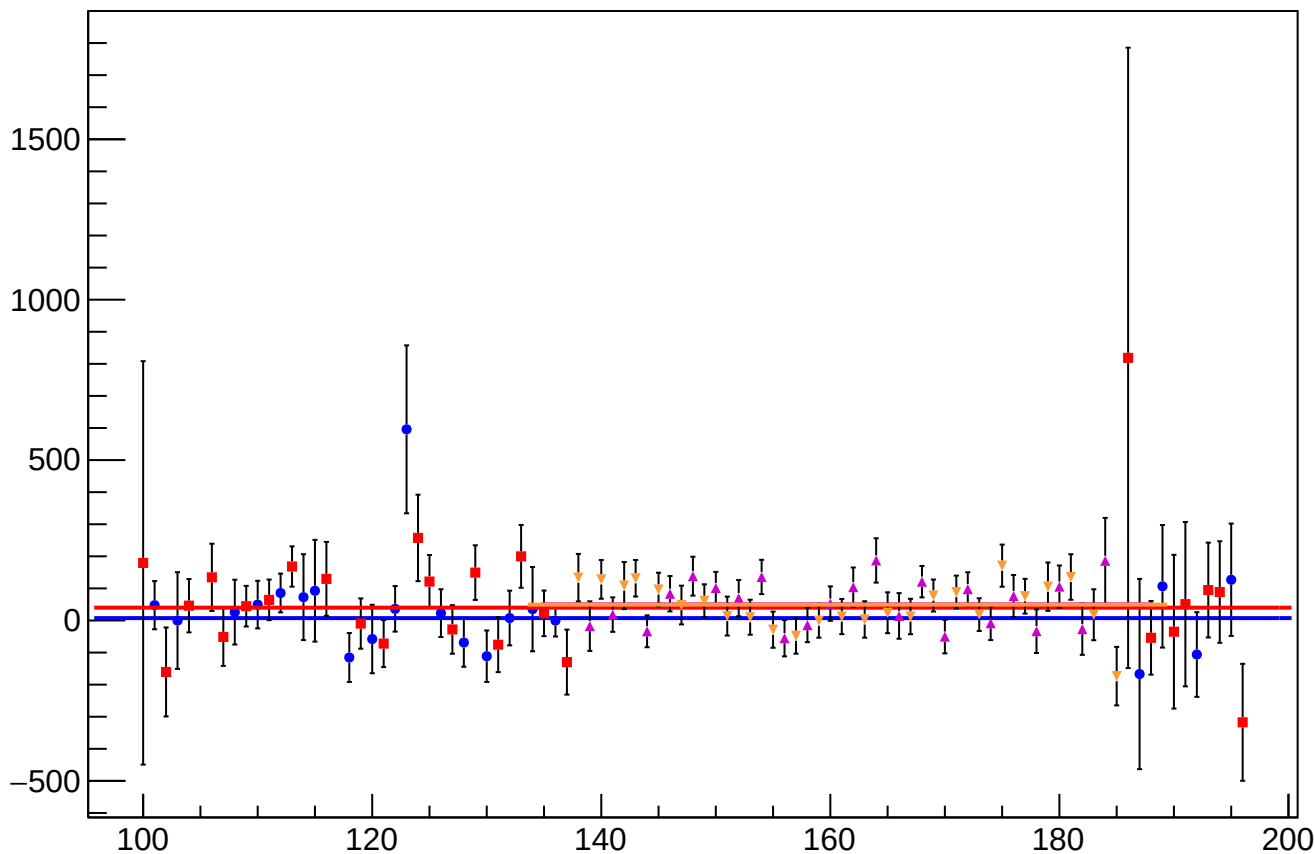
Right: 180.769 $\pm$ 0.052 χ^2 /NDF: 781821.0/10

In: 130.976 $\pm$ 0.021 χ^2 /NDF: 1747055.8/26

Out: 133.247 $\pm$ 0.021 χ^2 /NDF: 2750574.2/31

All: 132.161 $\pm$ 0.015 χ^2 /NDF: 4503503.2/58

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 7.411+/-19.676 χ^2/NDF : 16.2/20

Left Out: 49.402+/-11.806 χ^2/NDF : 28.1/24

Right Out: 39.948+/-18.678 χ^2/NDF : 30.5/25

Left In: 50.331+/-12.253 χ^2/NDF : 32.2/22

Left: 49.849+/-8.502 χ^2/NDF : 60.3/47

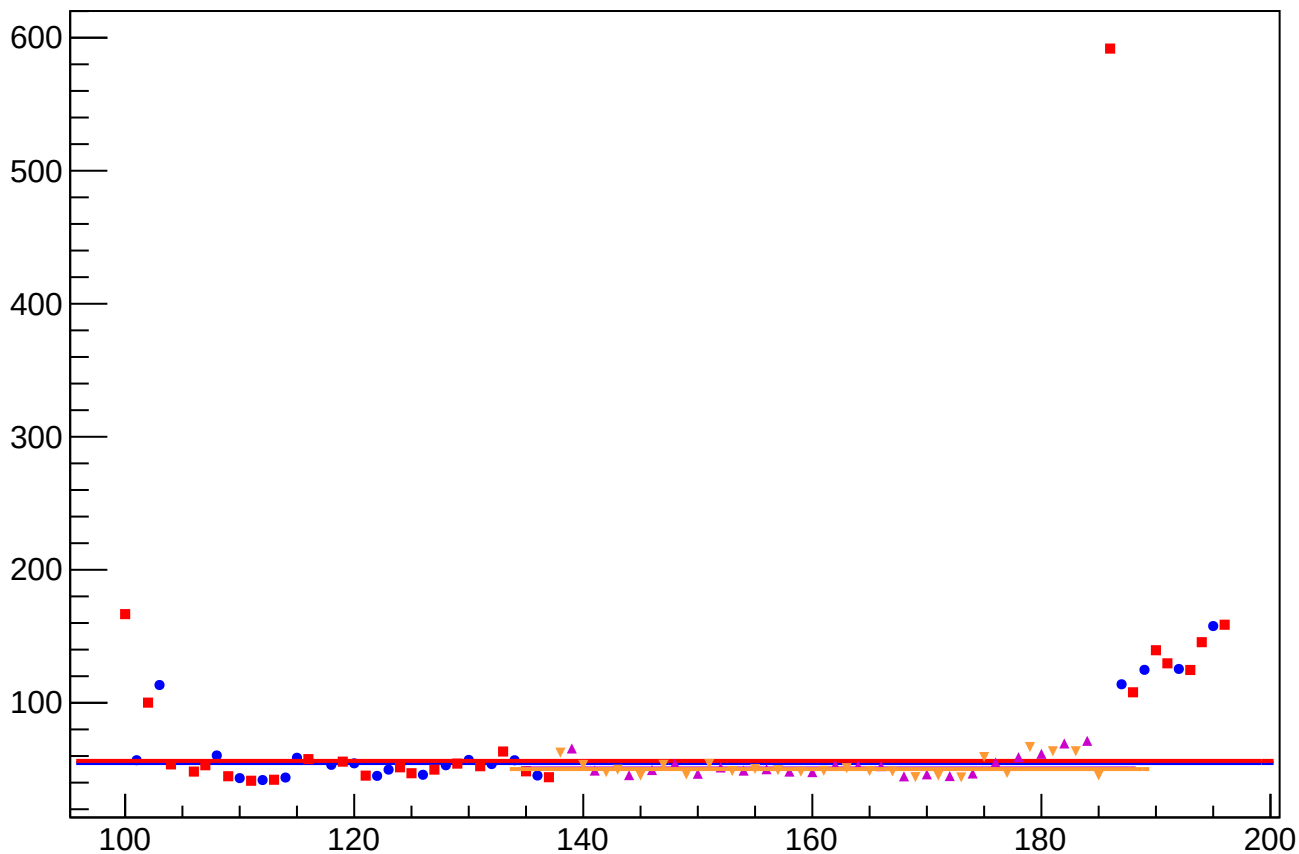
Right: 24.525+/-13.547 χ^2/NDF : 48.1/46

In: 38.337+/-10.401 χ^2/NDF : 51.8/43

Out: 46.703+/-9.979 χ^2/NDF : 58.8/50

All: 42.693+/-7.201 χ^2/NDF : 110.9/94

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 54.717 $\pm$ 0.014 χ^2 /NDF: 2217112.4/20

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 56.345 $\pm$ 0.013 χ^2 /NDF: 3830360.4/25

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

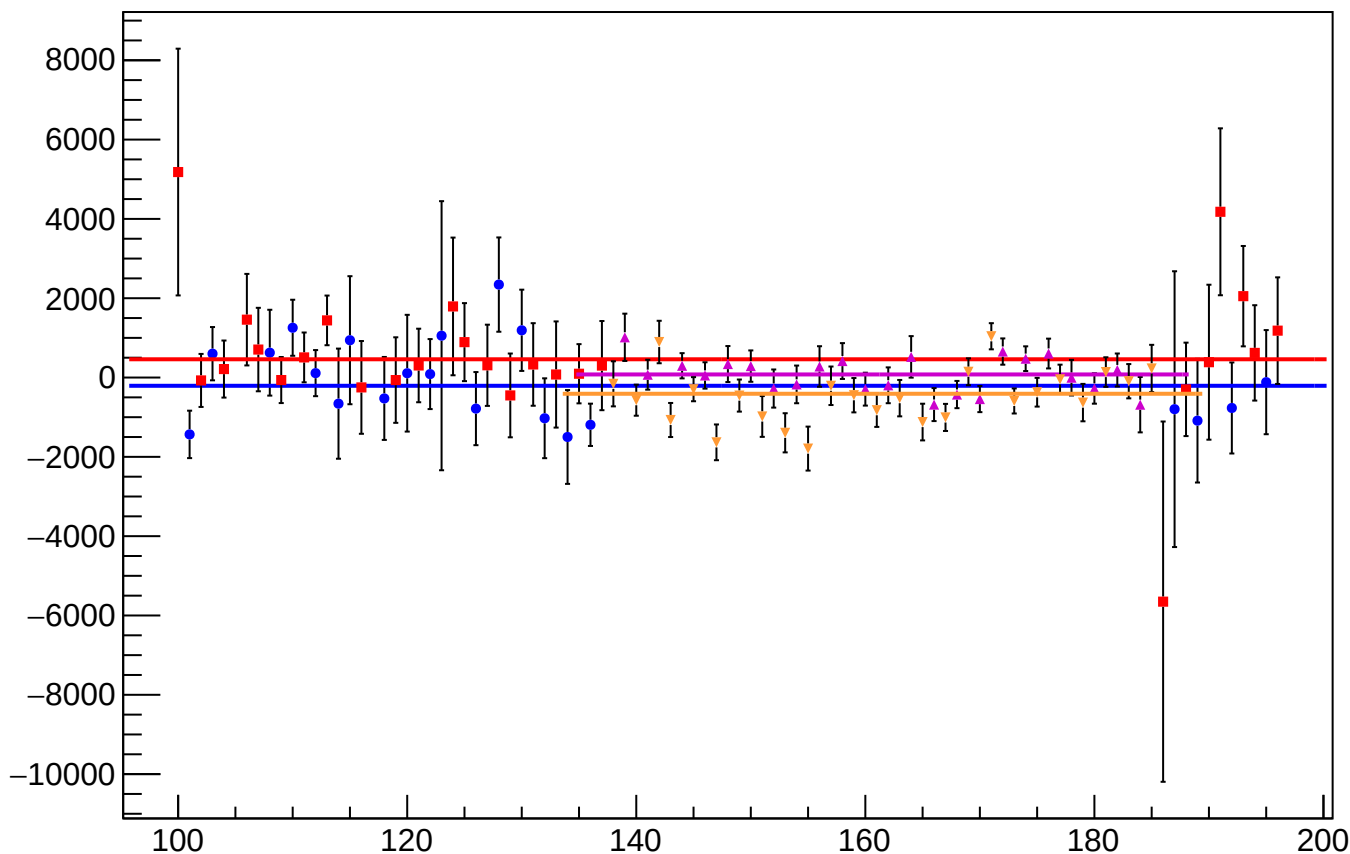
Right: 55.573 $\pm$ 0.010 χ^2 /NDF: 6054679.6/46

In: 51.810 $\pm$ 0.007 χ^2 /NDF: 2746974.0/43

Out: 51.947 $\pm$ 0.007 χ^2 /NDF: 4453272.5/50

All: 51.881 $\pm$ 0.005 χ^2 /NDF: 7200425.3/94

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -208.056 ± 202.592 $\chi^2/\text{NDF}: 24.5/20$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 460.347 ± 191.931 $\chi^2/\text{NDF}: 16.9/25$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

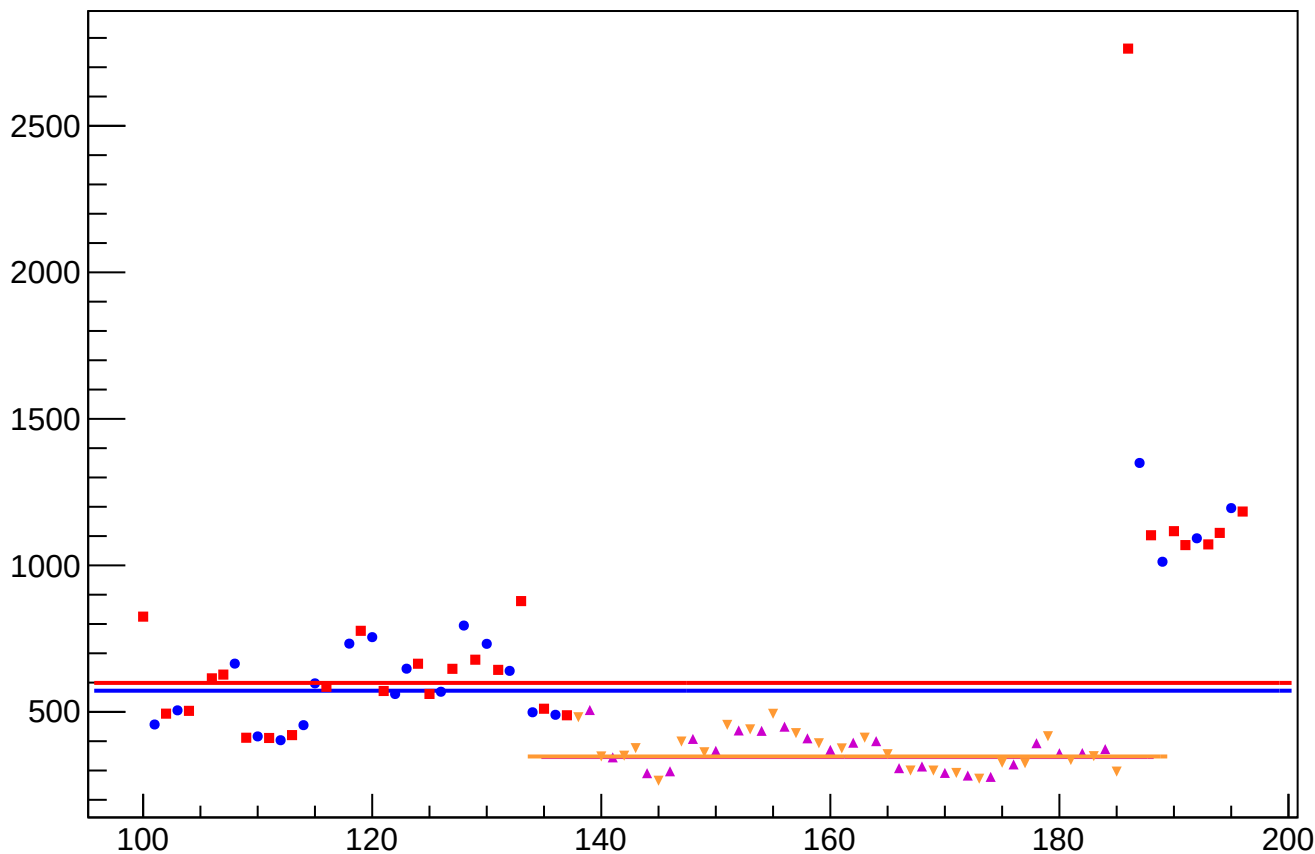
Right: 144.194 ± 139.332 $\chi^2/\text{NDF}: 47.2/46$

In: 35.866 ± 77.652 $\chi^2/\text{NDF}: 51.1/43$

Out: -273.985 ± 75.677 $\chi^2/\text{NDF}: 95.9/50$

All: -123.049 ± 54.196 $\chi^2/\text{NDF}: 155.2/94$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 572.318+/-0.143 χ^2/NDF : 1772842.2/20

Left Out: 347.875+/-0.058 χ^2/NDF :1044096.7/24

Right Out: 598.952+/-0.136 χ^2/NDF : 2942139.4/25

Left In: 345.954+/-0.059 χ^2/NDF :900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

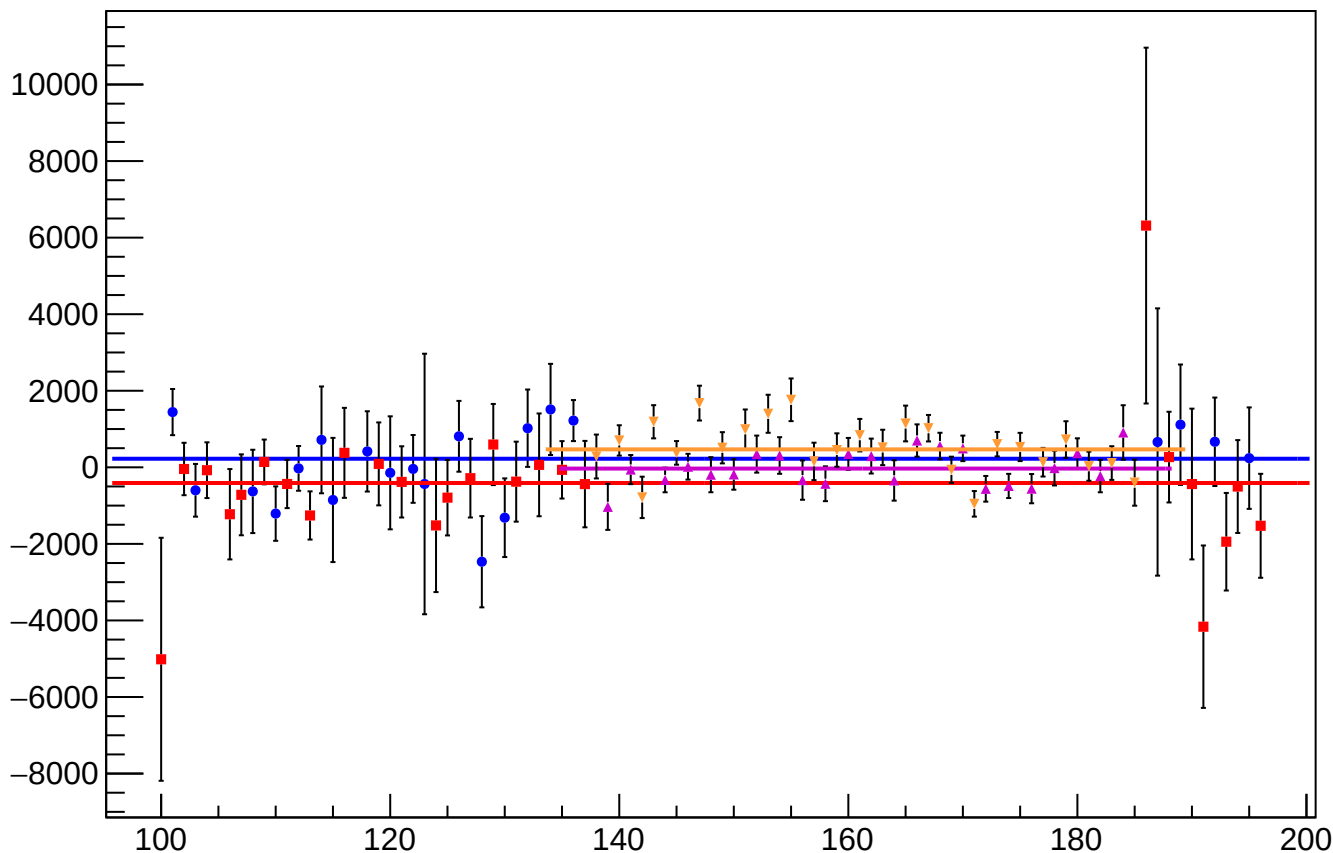
Right: 586.354+/-0.099 χ^2/NDF : 4733199.4/46

In: 379.209+/-0.055 χ^2/NDF :4803749.3/43

Out: 386.909+/-0.054 χ^2/NDF :6876715.7/50

All: 383.158+/-0.038 χ^2/NDF : 11690550.2/94

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 224.090 $\pm$ 204.030 χ^2 /NDF: 24.6/20

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -409.378 $\pm$ 193.422 χ^2 /NDF: 16.0/25

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

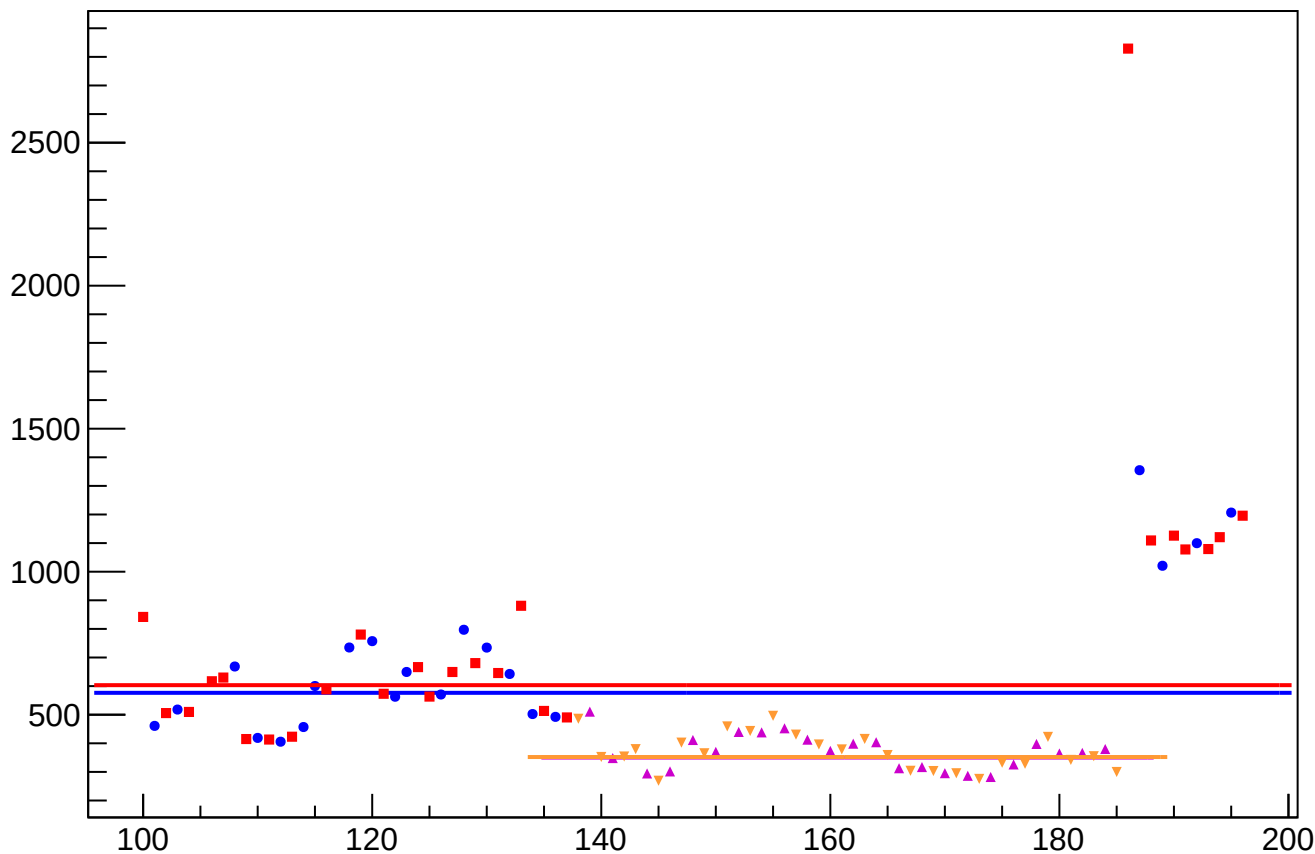
Right: -109.540 $\pm$ 140.370 χ^2 /NDF: 45.7/46

In: 5.240 $\pm$ 78.513 χ^2 /NDF:51.7/43

Out: 331.471 $\pm$ 76.503 χ^2 /NDF:90.9/50

All: 172.585 $\pm$ 54.793 χ^2 /NDF: 151.4/94

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 576.513 $\pm$ 0.144 χ^2/NDF : 1766233.2/20

Left Out: 352.015 $\pm$ 0.059 χ^2/NDF : 1017195.6/24

Right Out: 603.313 $\pm$ 0.137 χ^2/NDF : 2941843.7/25

Left In: 350.160 $\pm$ 0.060 χ^2/NDF : 878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2/NDF : 1896060.8/47

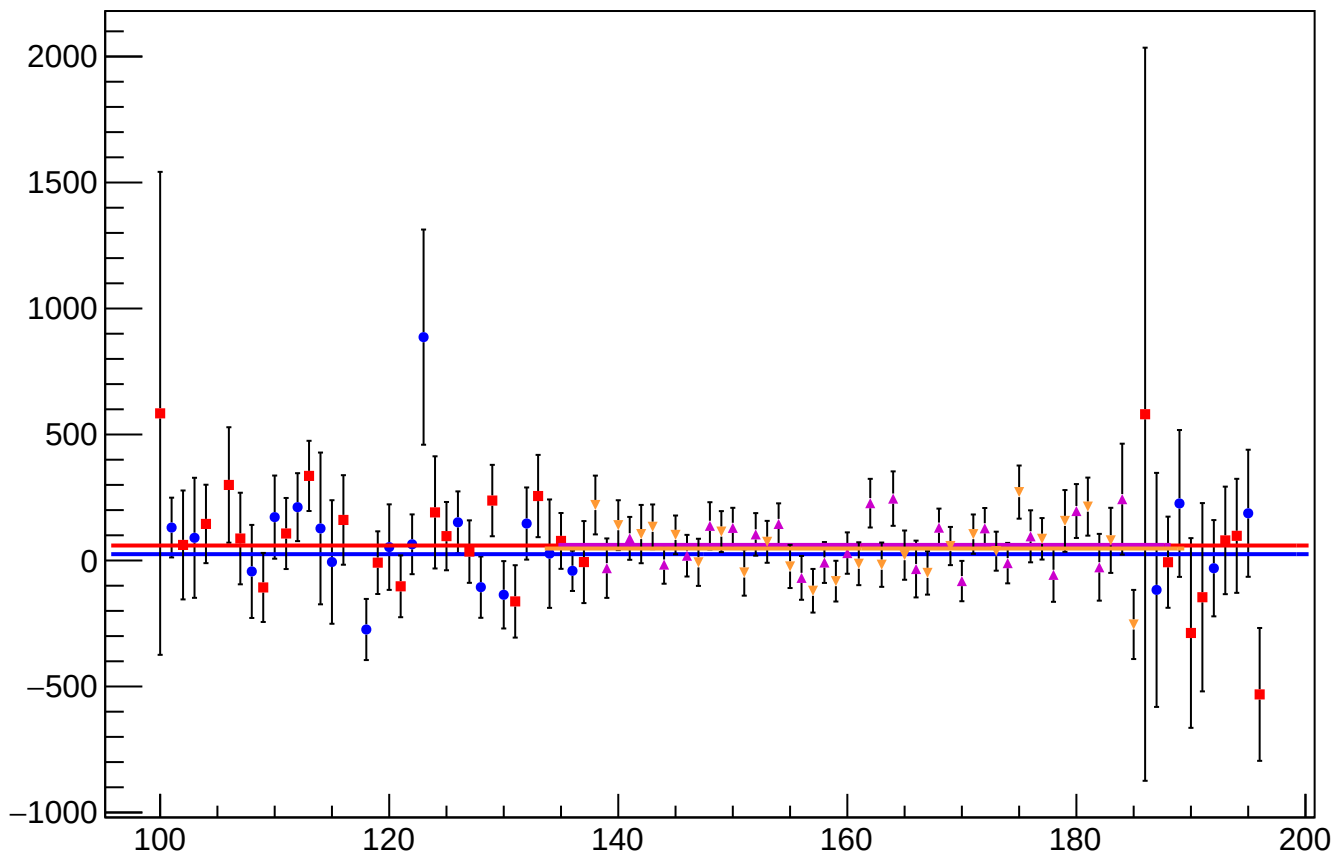
Right: 590.628 $\pm$ 0.099 χ^2/NDF : 4726249.9/46

In: 383.679 $\pm$ 0.056 χ^2/NDF : 4741682.3/43

Out: 391.328 $\pm$ 0.054 χ^2/NDF : 6806863.6/50

All: 387.602 $\pm$ 0.039 χ^2/NDF : 11558283.1/94

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 25.118 $\pm$ 33.463 χ^2 /NDF: 20.3/20

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 59.456 $\pm$ 32.847 χ^2 /NDF: 22.2/25

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

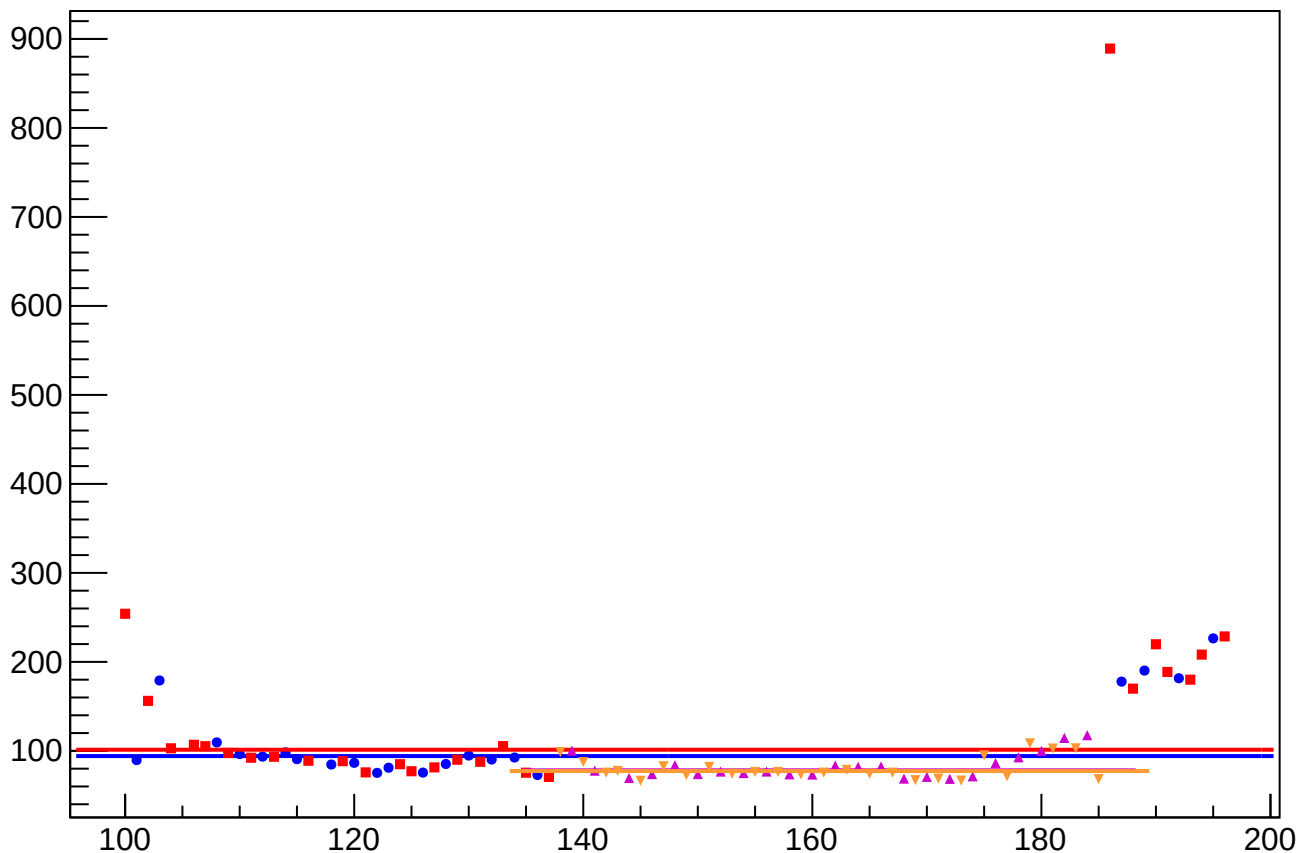
Right: 42.606 $\pm$ 23.441 χ^2 /NDF: 43.0/46

In: 52.910 $\pm$ 16.495 χ^2 /NDF:45.2/43

Out: 50.264 $\pm$ 15.955 χ^2 /NDF:51.6/50

All: 51.543 $\pm$ 11.468 χ^2 /NDF: 96.8/94

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 94.143+/-0.024 χ^2/NDF : 1791873.9/20

Left Out: 77.316+/-0.013 χ^2/NDF : 635622.3/24

Right Out: 101.278+/-0.023 χ^2/NDF : 3019130.0/25

Left In: 78.139+/-0.013 χ^2/NDF : 582108.1/22

Left: 77.712+/-0.009 χ^2/NDF : 1219684.1/47

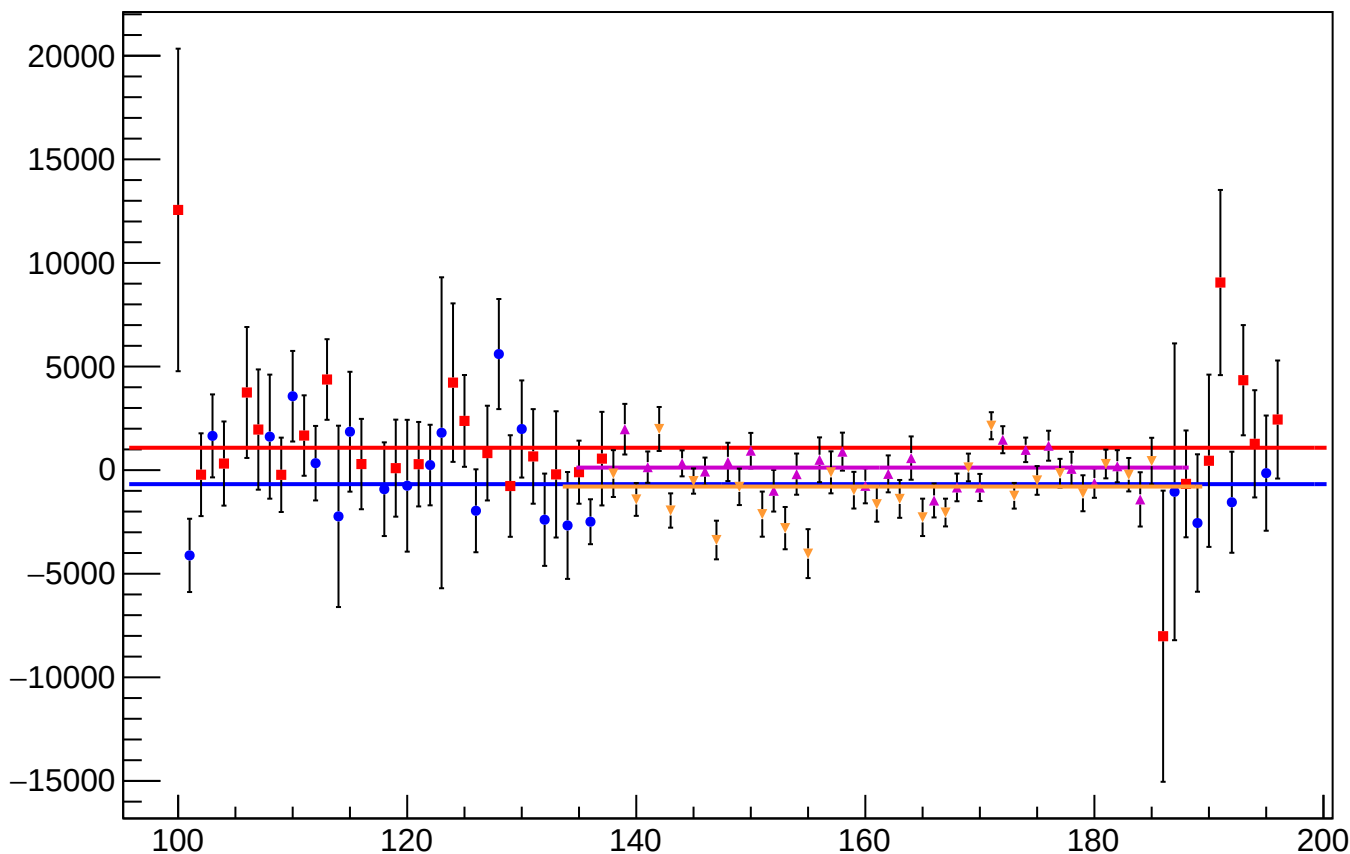
Right: 97.777+/-0.017 χ^2/NDF : 4857312.7/46

In: 82.027+/-0.012 χ^2/NDF : 2720304.6/43

Out: 82.970+/-0.011 χ^2/NDF : 4467983.9/50

All: 82.514+/-0.008 χ^2/NDF : 7191662.2/94

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -676.368+/-491.973 χ^2/NDF : 22.8/20

Left Out: -792.776+/-162.659 χ^2/NDF : 66.6/24

Right Out: 1080.457+/-473.959 χ^2/NDF : 17.0/25

Left In: 122.198+/-166.193 χ^2/NDF : 25.9/22

Left: -345.122+/-116.247 χ^2/NDF : 108.0/47

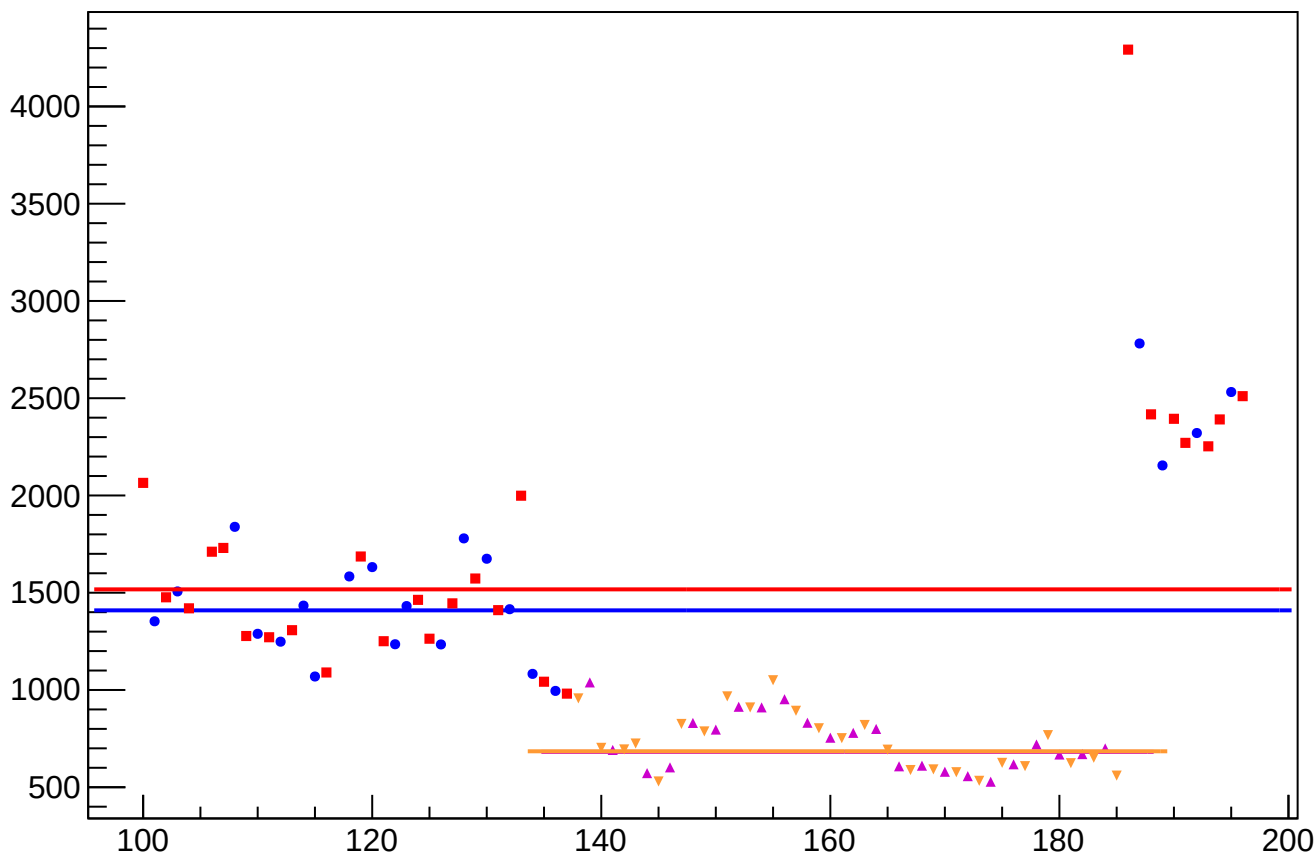
Right: 234.796+/-341.330 χ^2/NDF : 46.5/46

In: 40.403+/-157.452 χ^2/NDF : 51.1/43

Out: -595.393+/-153.851 χ^2/NDF : 97.6/50

All: -284.850+/-110.040 χ^2/NDF : 157.1/94

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1409.352 $\pm$ 0.348 χ^2 /NDF: 1318879.0/20

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF:1280146.2/24

Right Out: 1517.256 $\pm$ 0.335 χ^2 /NDF: 1962738.2/25

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

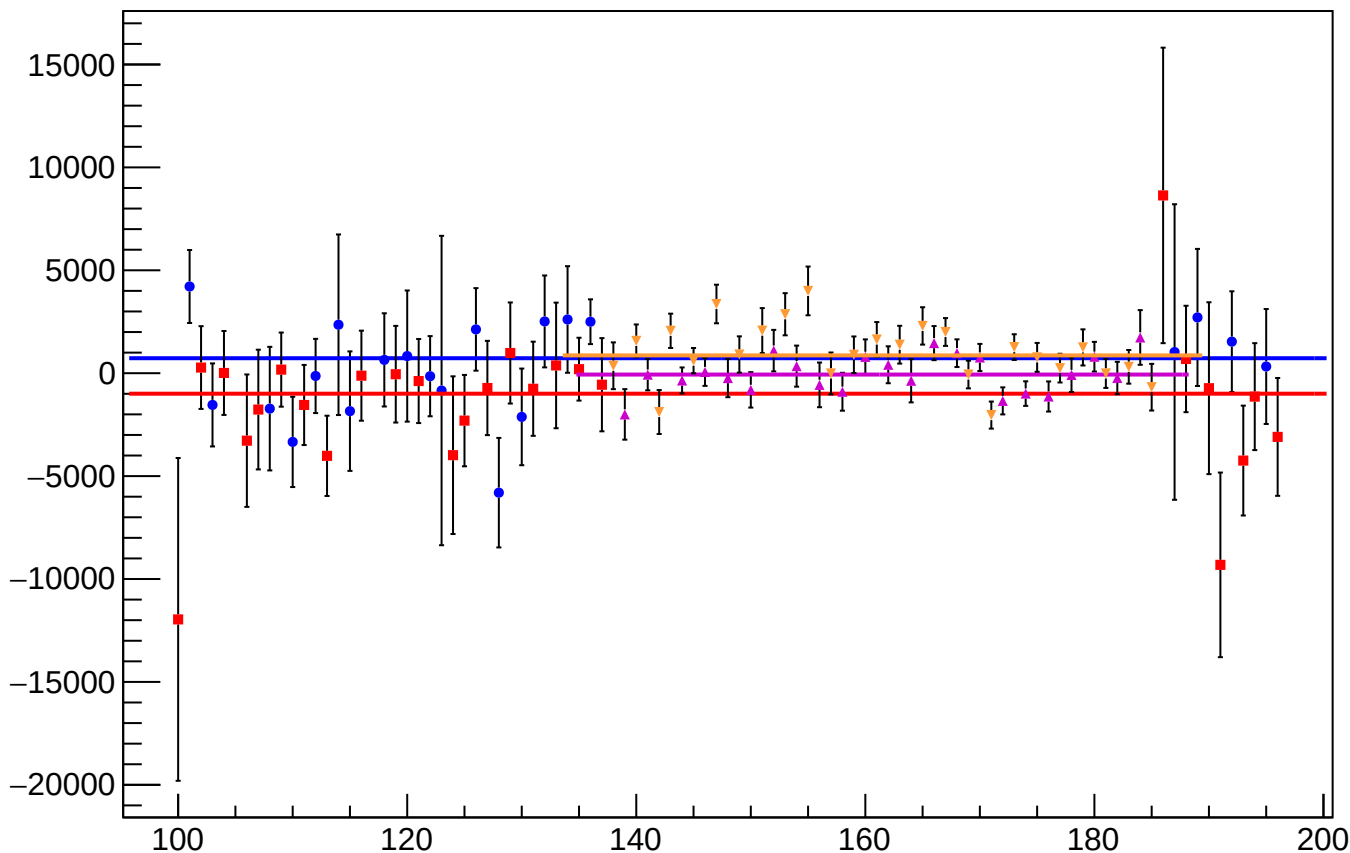
Right: 1465.316 $\pm$ 0.241 χ^2 /NDF: 3331516.3/46

In: 756.242 $\pm$ 0.111 χ^2 /NDF:6365423.8/43

Out: 772.502 $\pm$ 0.109 χ^2 /NDF:8762771.0/50

All: 764.560 $\pm$ 0.078 χ^2 /NDF: 15139106.2/94

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 728.006 $\pm$ 493.416 χ^2 /NDF: 22.9/20

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -995.656 $\pm$ 475.605 χ^2 /NDF: 16.7/25

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

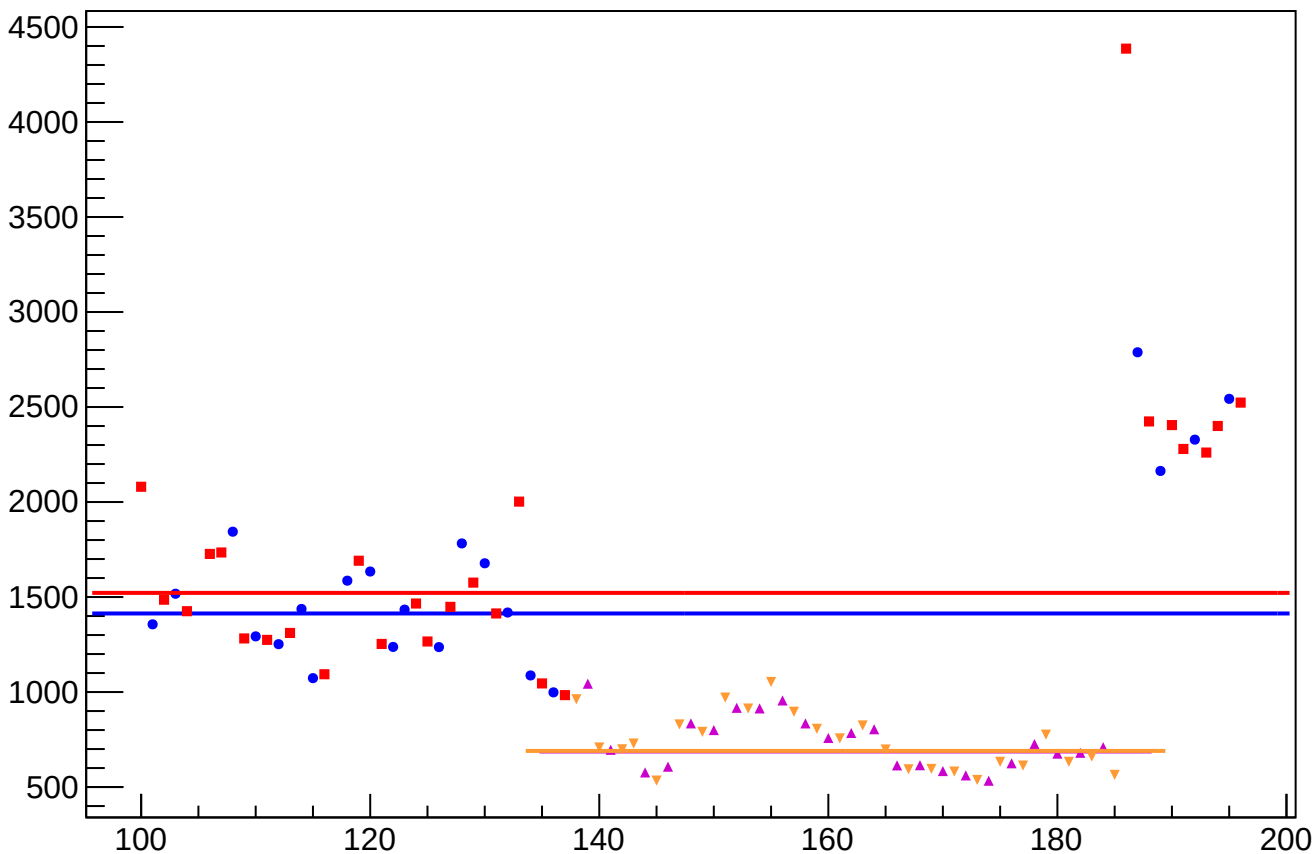
Right: -165.497 $\pm$ 342.427 χ^2 /NDF: 45.9/46

In: 16.100 $\pm$ 158.597 χ^2 /NDF:51.7/43

Out: 668.052 $\pm$ 154.944 χ^2 /NDF:93.2/50

All: 349.670 $\pm$ 110.831 χ^2 /NDF: 153.5/94

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1413.458 $\pm$ 0.349 χ^2 /NDF: 1319823.5/20

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1521.780 $\pm$ 0.336 χ^2 /NDF: 1973408.9/25

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

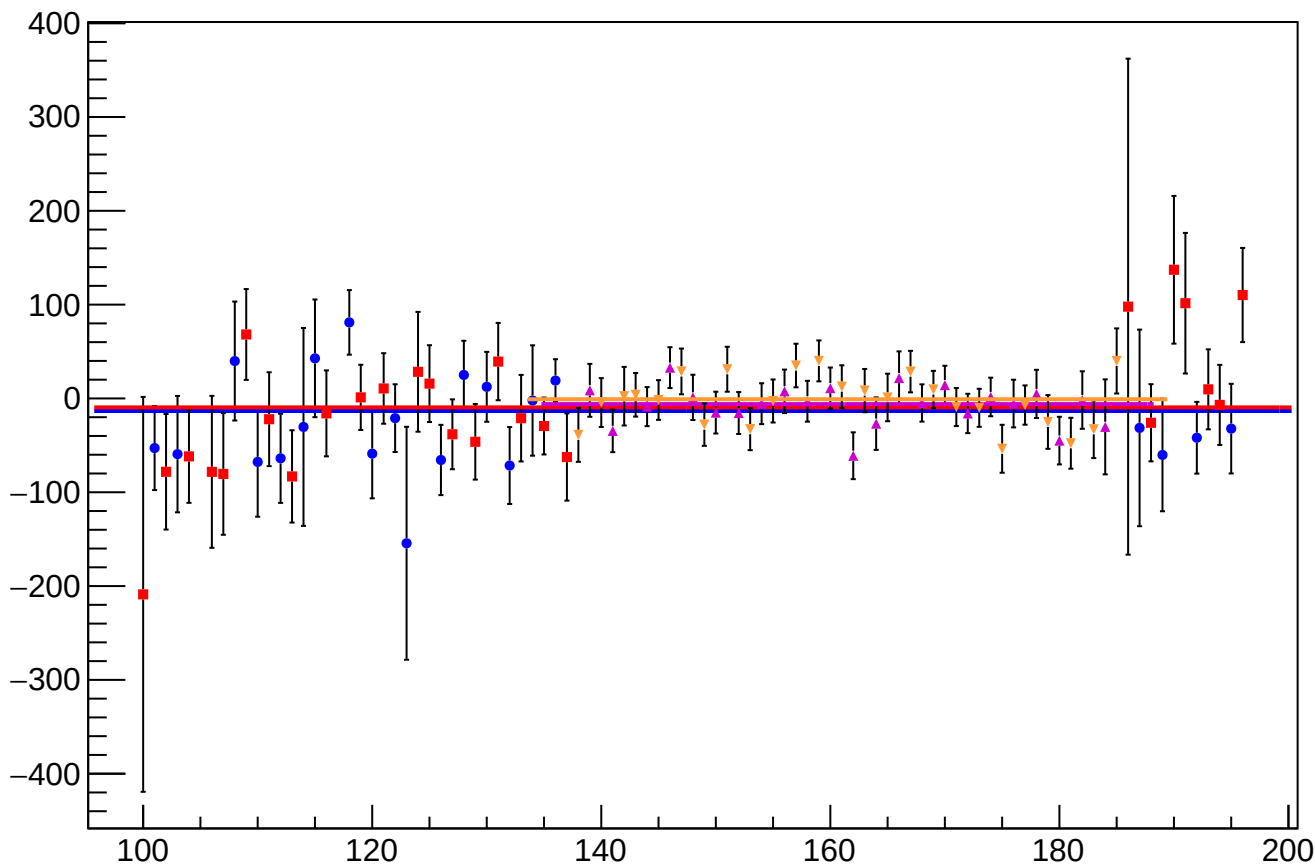
Right: 1469.609 $\pm$ 0.242 χ^2 /NDF: 3343198.9/46

In: 762.248 $\pm$ 0.112 χ^2 /NDF: 6304659.1/43

Out: 778.430 $\pm$ 0.110 χ^2 /NDF: 8697356.5/50

All: 770.527 $\pm$ 0.078 χ^2 /NDF: 15012668.7/94

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.390 ± 9.669 $\chi^2/\text{NDF}: 23.6/20$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: -9.549 ± 9.300 $\chi^2/\text{NDF}: 27.7/25$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

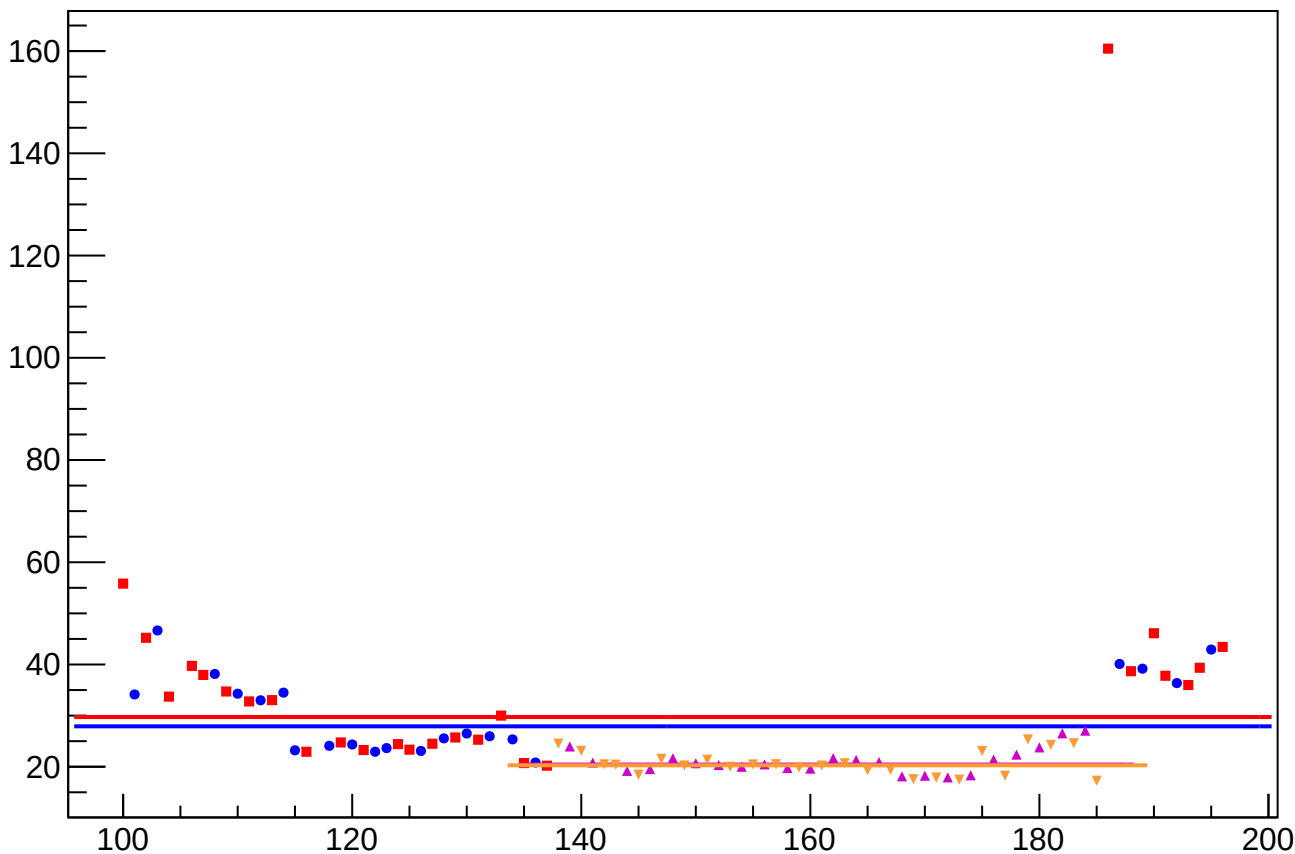
Right: -11.395 ± 6.703 $\chi^2/\text{NDF}: 51.3/46$

In: -7.556 ± 4.389 $\chi^2/\text{NDF}: 41.0/43$

Out: -2.665 ± 4.237 $\chi^2/\text{NDF}: 56.3/50$

All: -5.025 ± 3.048 $\chi^2/\text{NDF}: 97.9/94$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 27.903 $\pm$ 0.007 χ^2 /NDF: 1054562.5/20

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 29.722 $\pm$ 0.007 χ^2 /NDF: 1808505.4/25

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

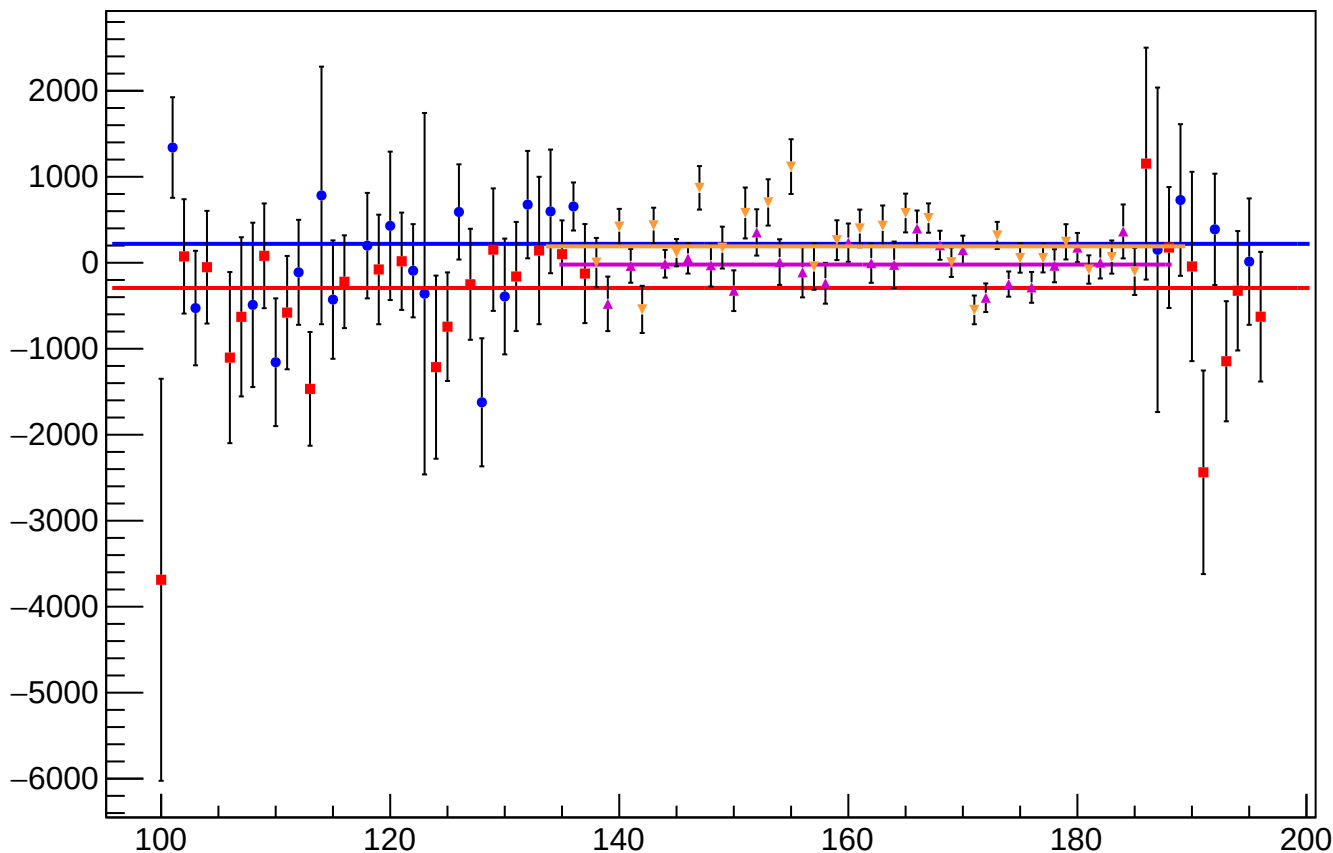
Right: 28.848 $\pm$ 0.005 χ^2 /NDF: 2899829.4/46

In: 21.965 $\pm$ 0.003 χ^2 /NDF: 2328187.4/43

Out: 22.240 $\pm$ 0.003 χ^2 /NDF: 3849521.3/50

All: 22.107 $\pm$ 0.002 χ^2 /NDF: 6181776.6/94

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 220.033 ± 139.565 $\chi^2/\text{NDF}: 21.8/20$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -293.000 ± 135.676 $\chi^2/\text{NDF}: 17.1/25$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

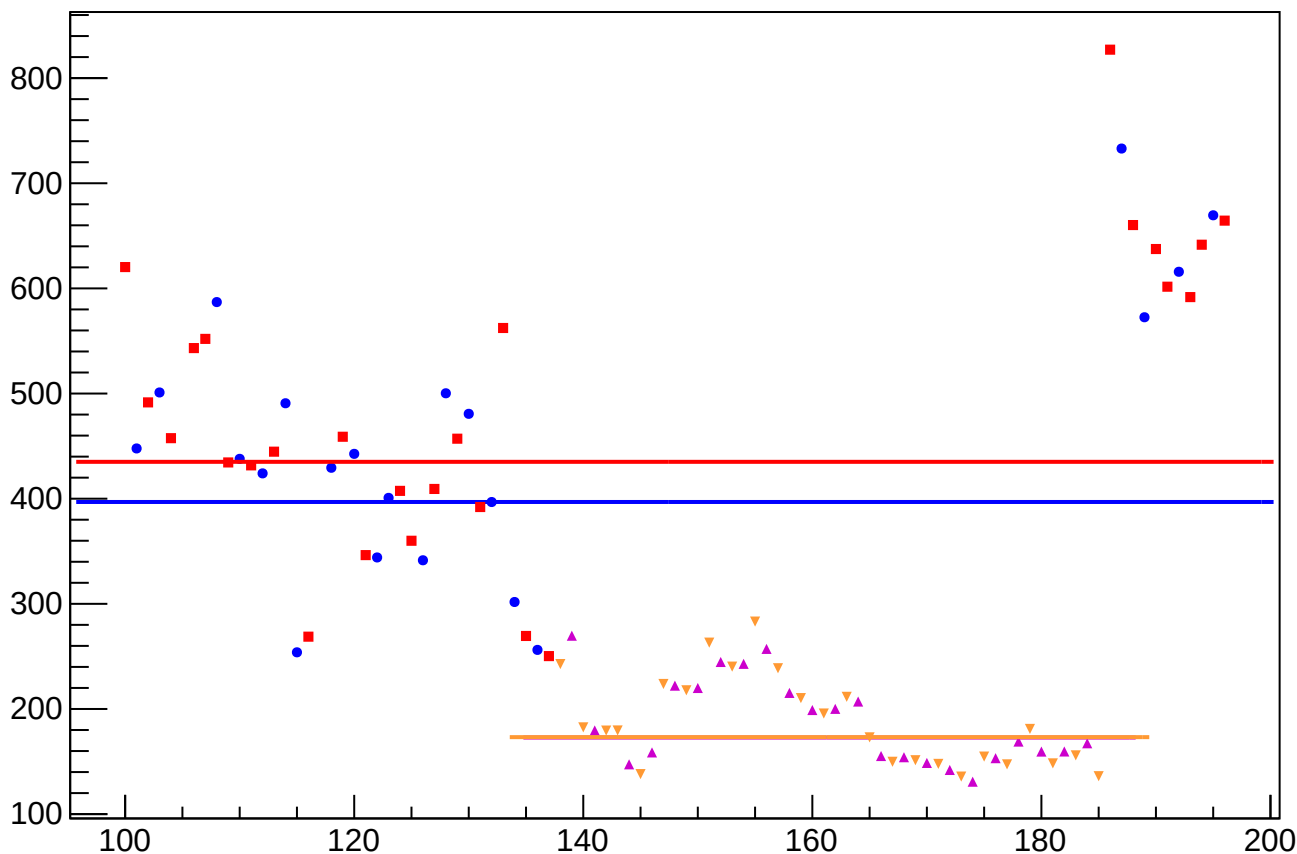
Right: -43.731 ± 97.283 $\chi^2/\text{NDF}: 45.9/46$

In: -0.728 ± 40.473 $\chi^2/\text{NDF}: 52.3/43$

Out: 149.809 ± 39.522 $\chi^2/\text{NDF}: 96.6/50$

All: 76.330 ± 28.277 $\chi^2/\text{NDF}: 156.0/94$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 396.873+/-0.099 χ^2/NDF : 1556380.6/20

Left Out: 173.210+/-0.029 χ^2/NDF : 1561250.6/24

Right Out: 435.060+/-0.096 χ^2/NDF : 1919445.7/25

Left In: 172.828+/-0.030 χ^2/NDF : 1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

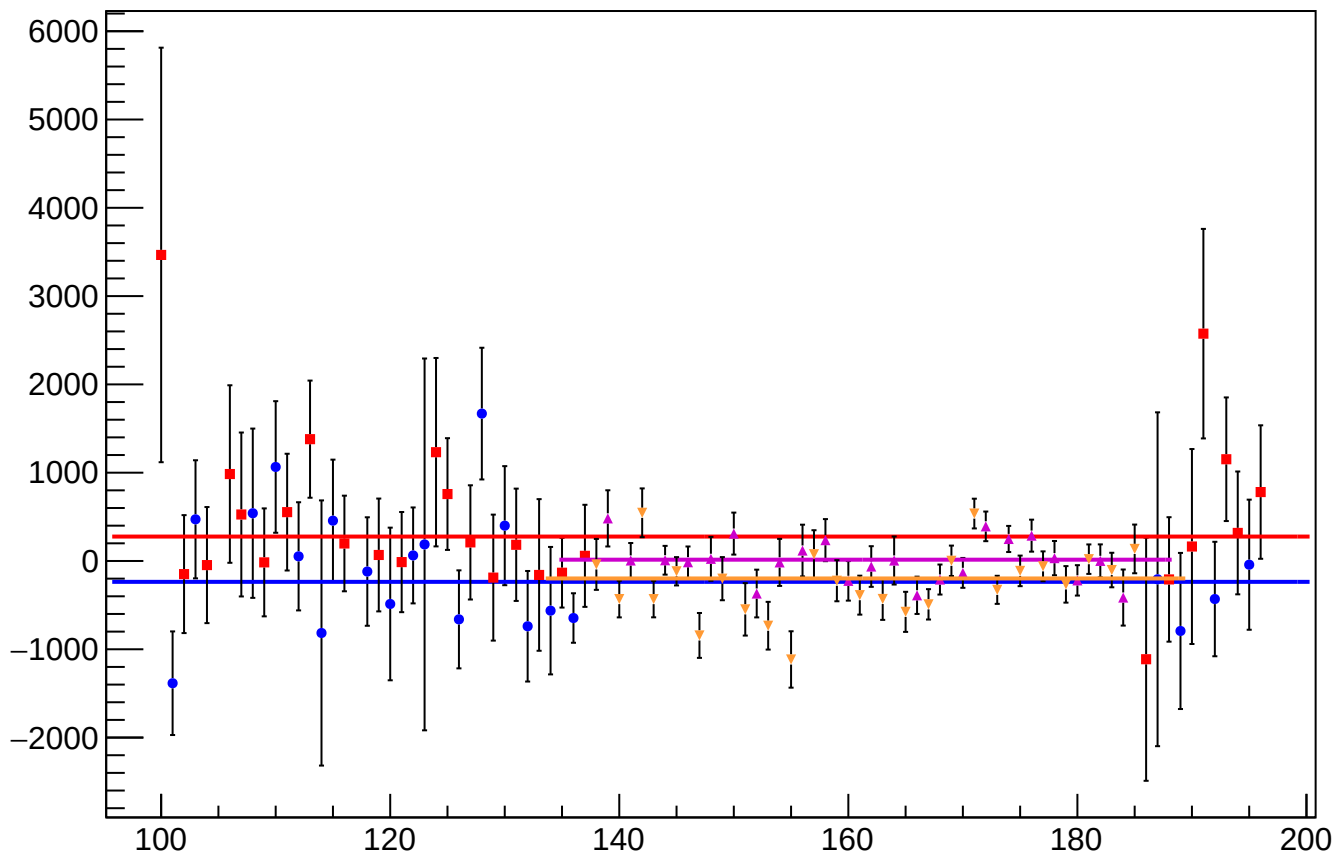
Right: 416.506+/-0.069 χ^2/NDF : 3552804.8/46

In: 191.670+/-0.029 χ^2/NDF : 7649145.9/43

Out: 195.429+/-0.028 χ^2/NDF : 10298144.5/50

All: 193.594+/-0.020 χ^2/NDF : 17956124.4/94

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -236.339 ± 139.959 $\chi^2/\text{NDF}: 22.0/20$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 276.565 ± 136.088 $\chi^2/\text{NDF}: 17.2/25$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

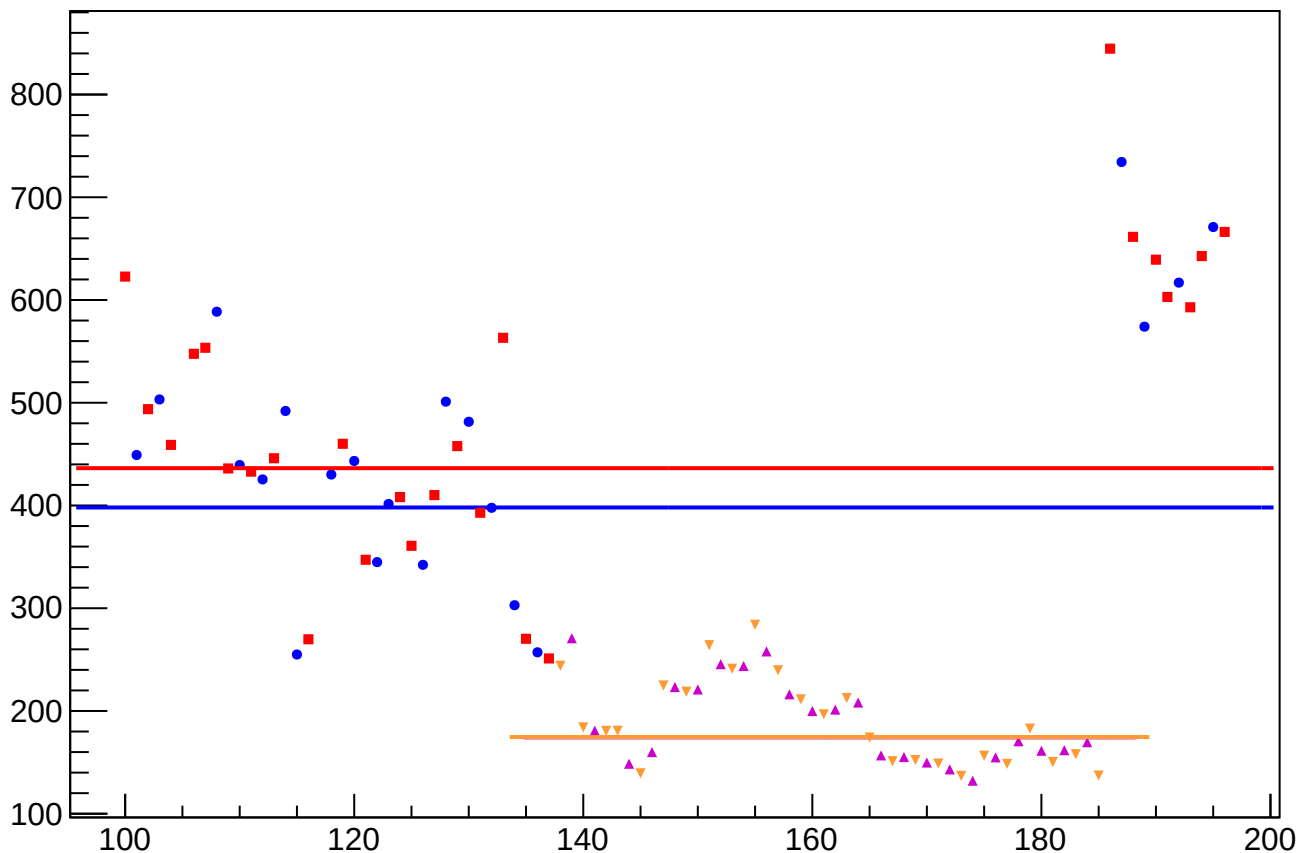
Right: 27.305 ± 97.569 $\chi^2/\text{NDF}: 46.1/46$

In: -6.689 ± 40.780 $\chi^2/\text{NDF}: 52.7/43$

Out: -157.302 ± 39.816 $\chi^2/\text{NDF}: 92.6/50$

All: -83.796 ± 28.489 $\chi^2/\text{NDF}: 152.3/94$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 398.059 $\pm$ 0.099 χ^2 /NDF: 1551717.9/20

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 436.313 $\pm$ 0.096 χ^2 /NDF: 1924026.2/25

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

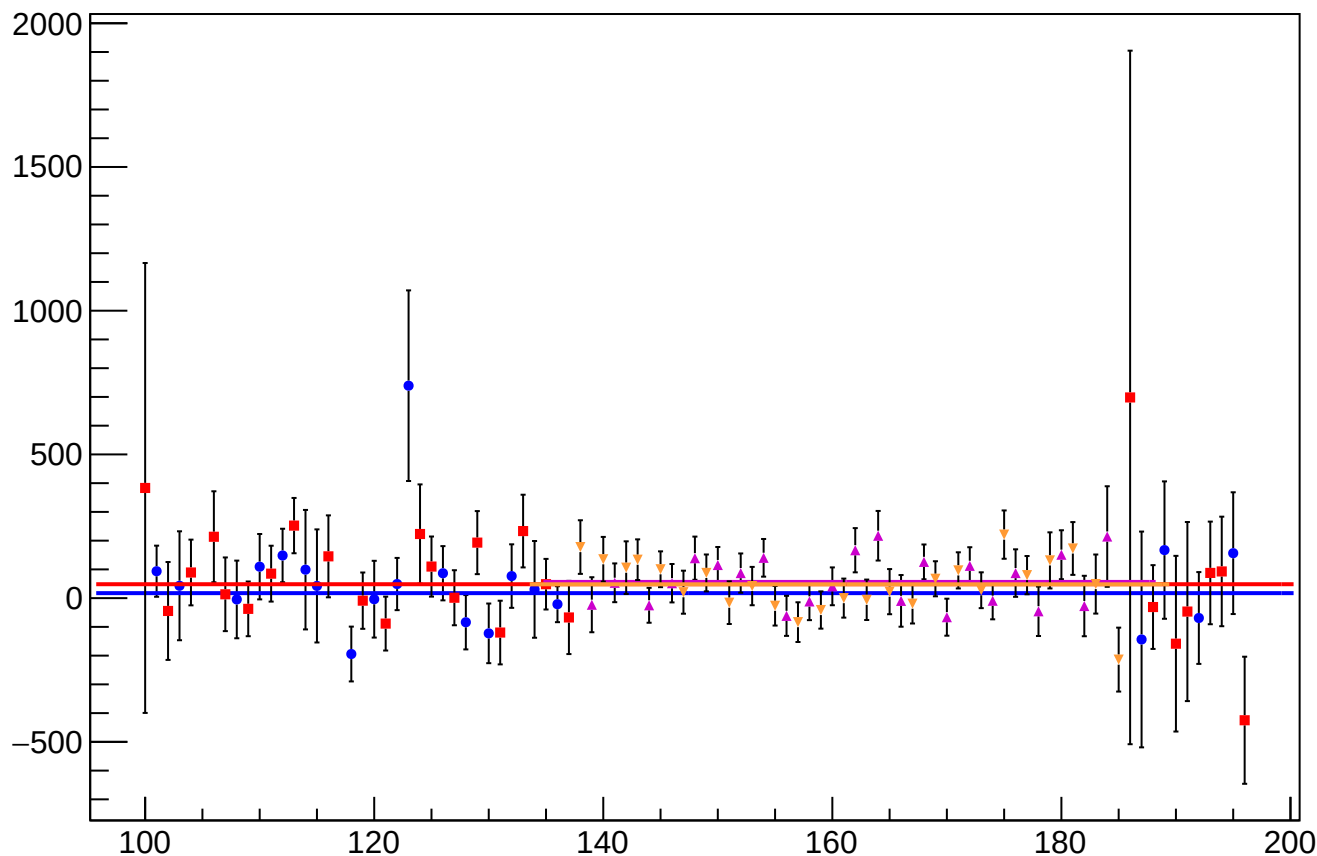
Right: 417.723 $\pm$ 0.069 χ^2 /NDF: 3552544.5/46

In: 193.285 $\pm$ 0.029 χ^2 /NDF: 7574987.6/43

Out: 197.047 $\pm$ 0.028 χ^2 /NDF: 10217174.0/50

All: 195.211 $\pm$ 0.020 χ^2 /NDF: 17800872.5/94

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 17.388+/-25.620 χ^2/NDF : 18.9/20

Left Out: 48.233+/-14.616 χ^2/NDF : 29.3/24

Right Out: 48.429+/-24.958 χ^2/NDF : 24.6/25

Left In: 56.403+/-15.182 χ^2/NDF : 27.5/22

Left: 52.163+/-10.529 χ^2/NDF : 56.9/47

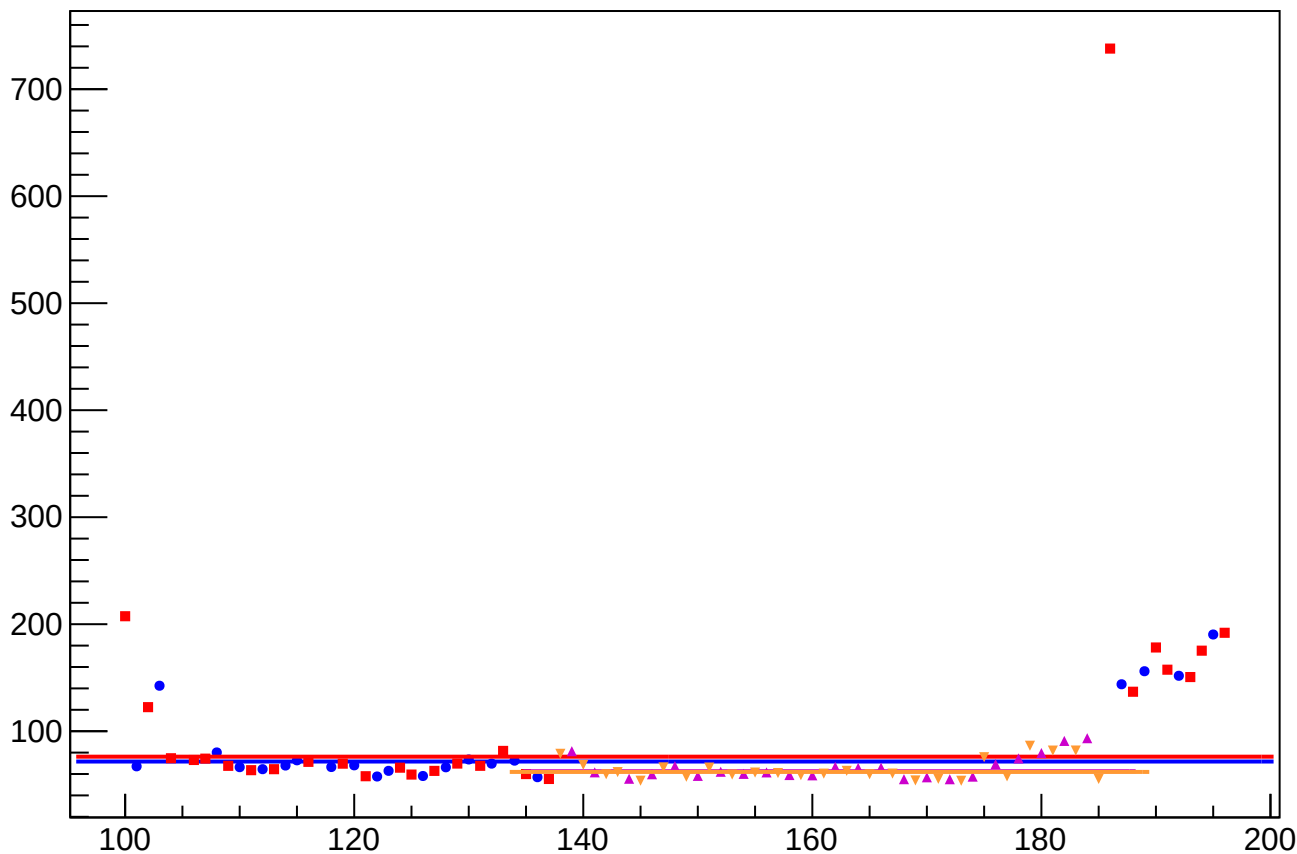
Right: 33.315+/-17.877 χ^2/NDF : 44.2/46

In: 46.264+/-13.061 χ^2/NDF : 48.1/43

Out: 48.283+/-12.612 χ^2/NDF : 53.9/50

All: 47.309+/-9.073 χ^2/NDF : 101.9/94

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 71.664 $\pm$ 0.018 χ^2 /NDF: 1979077.8/20

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 76.191 $\pm$ 0.018 χ^2 /NDF: 3357387.2/25

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

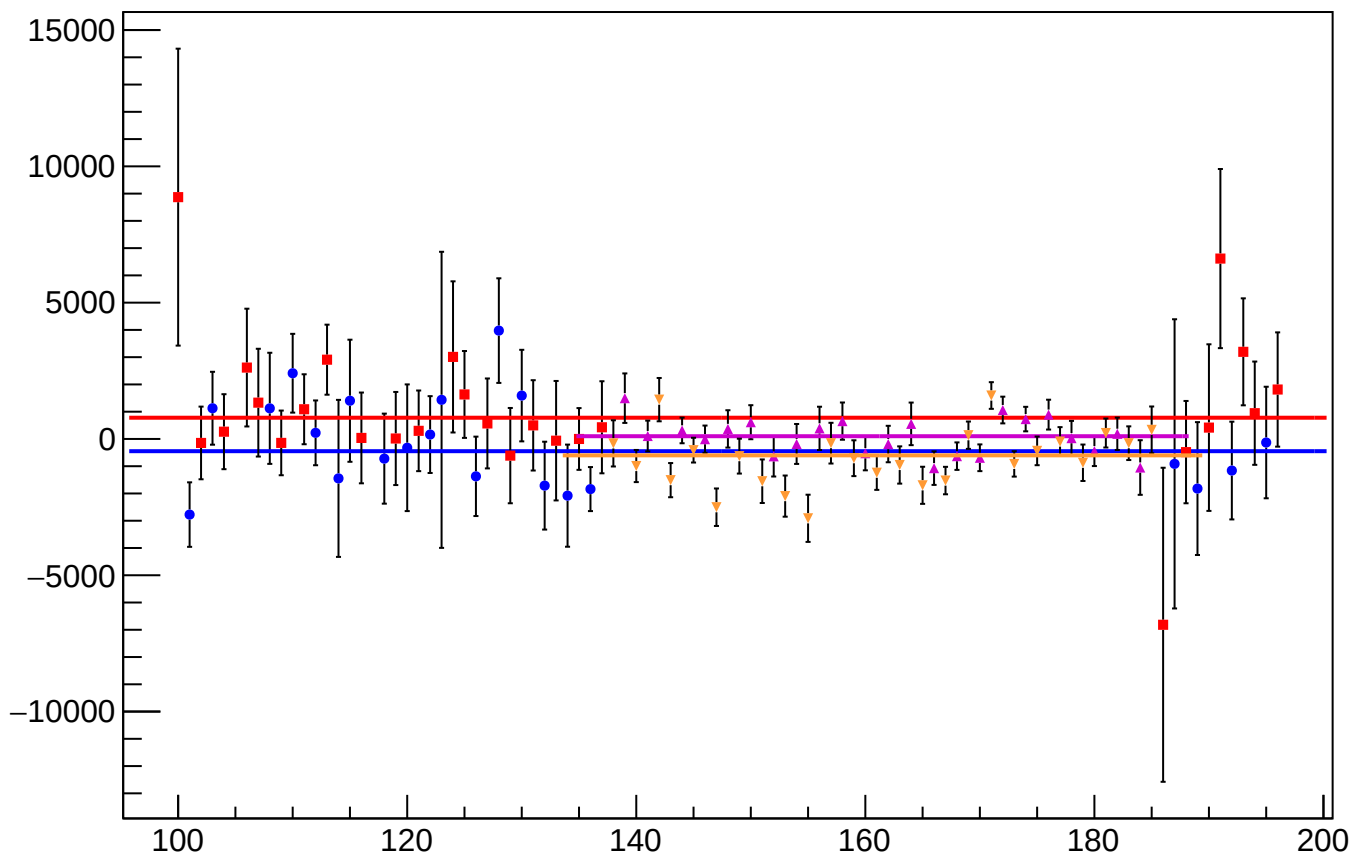
Right: 73.987 $\pm$ 0.013 χ^2 /NDF: 5368504.9/46

In: 64.961 $\pm$ 0.009 χ^2 /NDF: 2739567.3/43

Out: 65.584 $\pm$ 0.009 χ^2 /NDF: 4447503.5/50

All: 65.283 $\pm$ 0.006 χ^2 /NDF: 7189427.0/94

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -448.664+/-349.930 χ^2/NDF : 23.3/20

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 778.907+/-335.545 χ^2/NDF : 17.0/25

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

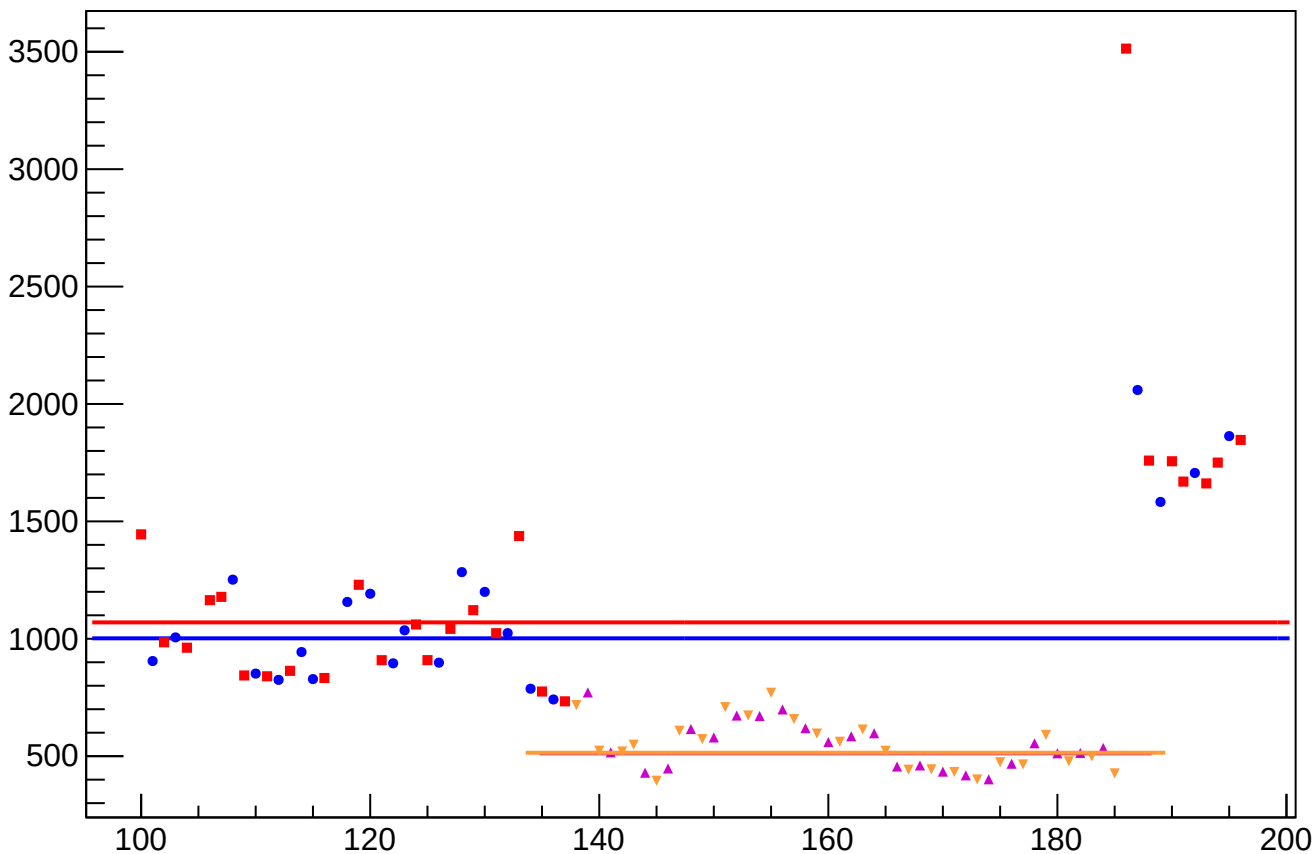
Right: 190.872+/-242.192 χ^2/NDF : 46.6/46

In: 38.640+/-117.485 χ^2/NDF : 50.9/43

Out: -440.033+/-114.755 χ^2/NDF : 97.3/50

All: -206.323+/-82.092 χ^2/NDF : 156.7/94

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1001.927+/-0.247 χ^2/NDF : 1336767.2/20

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1069.815+/-0.237 χ^2/NDF : 2116889.2/25

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

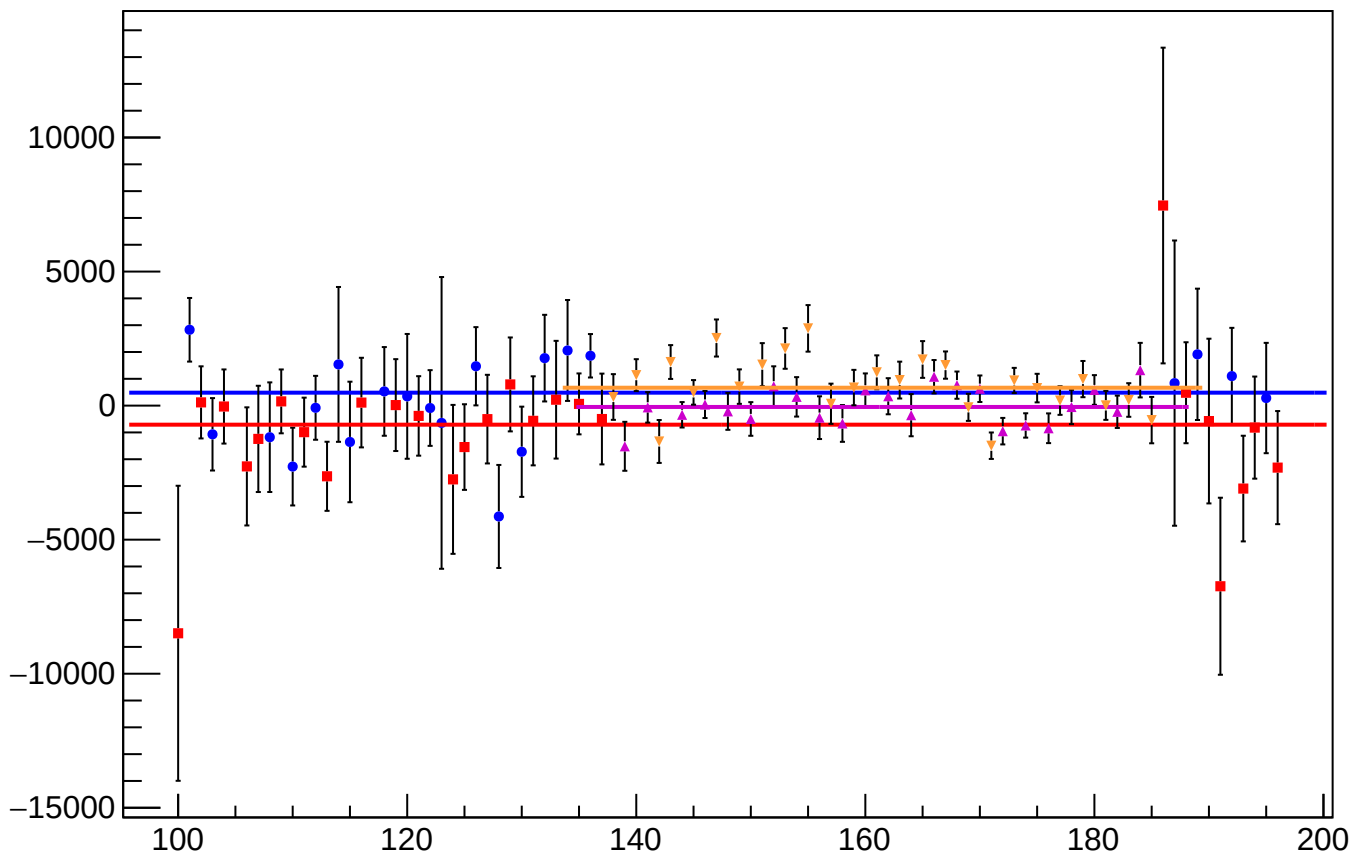
Right: 1037.295+/-0.171 χ^2/NDF : 3492873.0/46

In: 567.401+/-0.083 χ^2/NDF : 5853721.8/43

Out: 579.678+/-0.081 χ^2/NDF : 8144463.8/50

All: 573.684+/-0.058 χ^2/NDF : 14009361.1/94

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 482.920+/-351.169 χ^2/NDF : 23.4/20

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -710.877+/-336.943 χ^2/NDF : 16.4/25

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

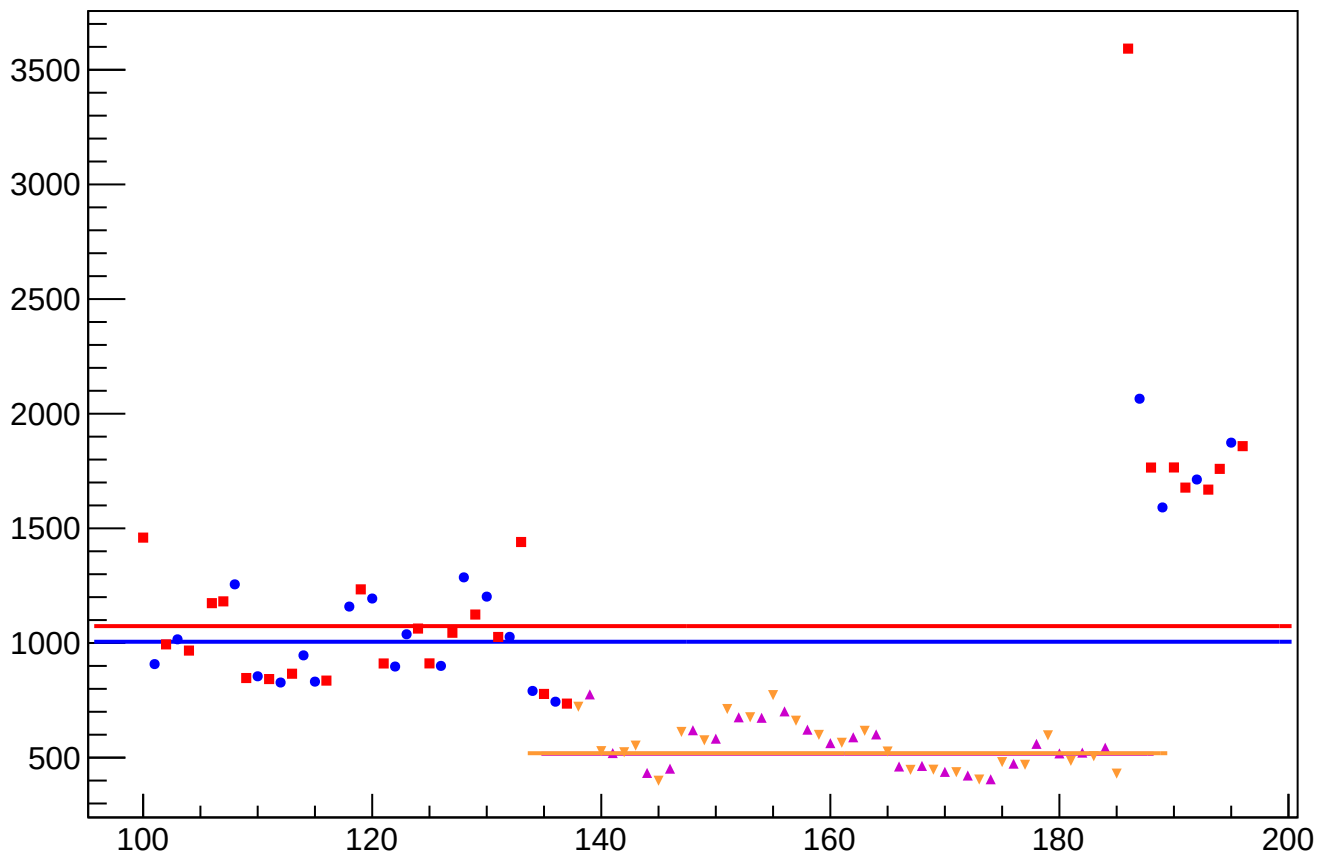
Right: -138.648+/-243.128 χ^2/NDF : 45.8/46

In: 10.546+/-118.434 χ^2/NDF : 51.5/43

Out: 505.189+/-115.663 χ^2/NDF : 92.7/50

All: 263.723+/-82.748 χ^2/NDF : 153.1/94

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1005.420+/-0.248 χ^2/NDF : 1338749.7/20

Left Out: 519.254+/-0.087 χ^2/NDF :1172411.1/24

Right Out: 1073.637+/-0.238 χ^2/NDF : 2128256.3/25

Left In: 516.792+/-0.089 χ^2/NDF :1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

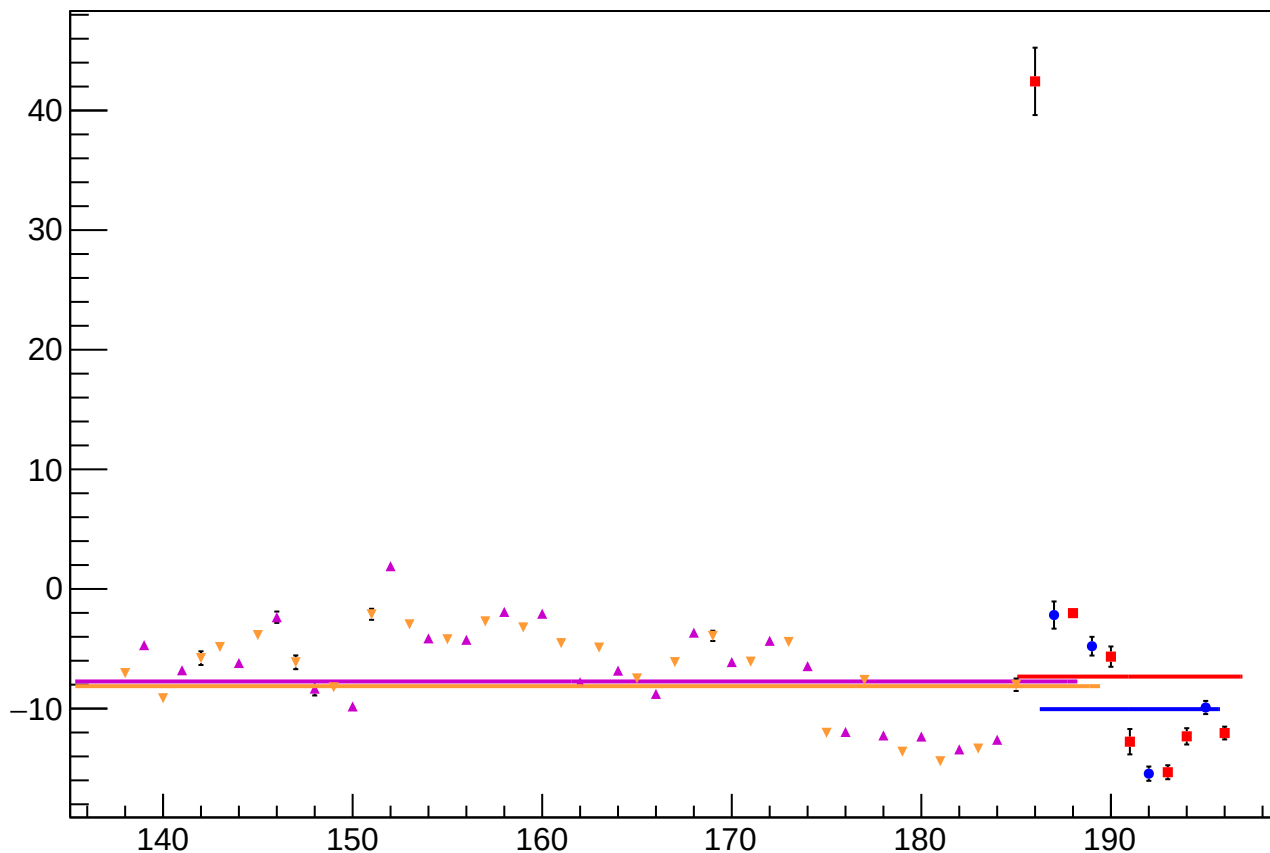
Right: 1040.939+/-0.172 χ^2/NDF : 3506301.3/46

In: 572.370+/-0.084 χ^2/NDF :5791877.2/43

Out: 584.580+/-0.082 χ^2/NDF :8076919.7/50

All: 578.619+/-0.059 χ^2/NDF : 13879676.9/94

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.048 ± 0.343 χ^2/NDF : 175.1/3

Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24

Right Out: -7.326 ± 0.224 χ^2/NDF : 910.6/6

Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47

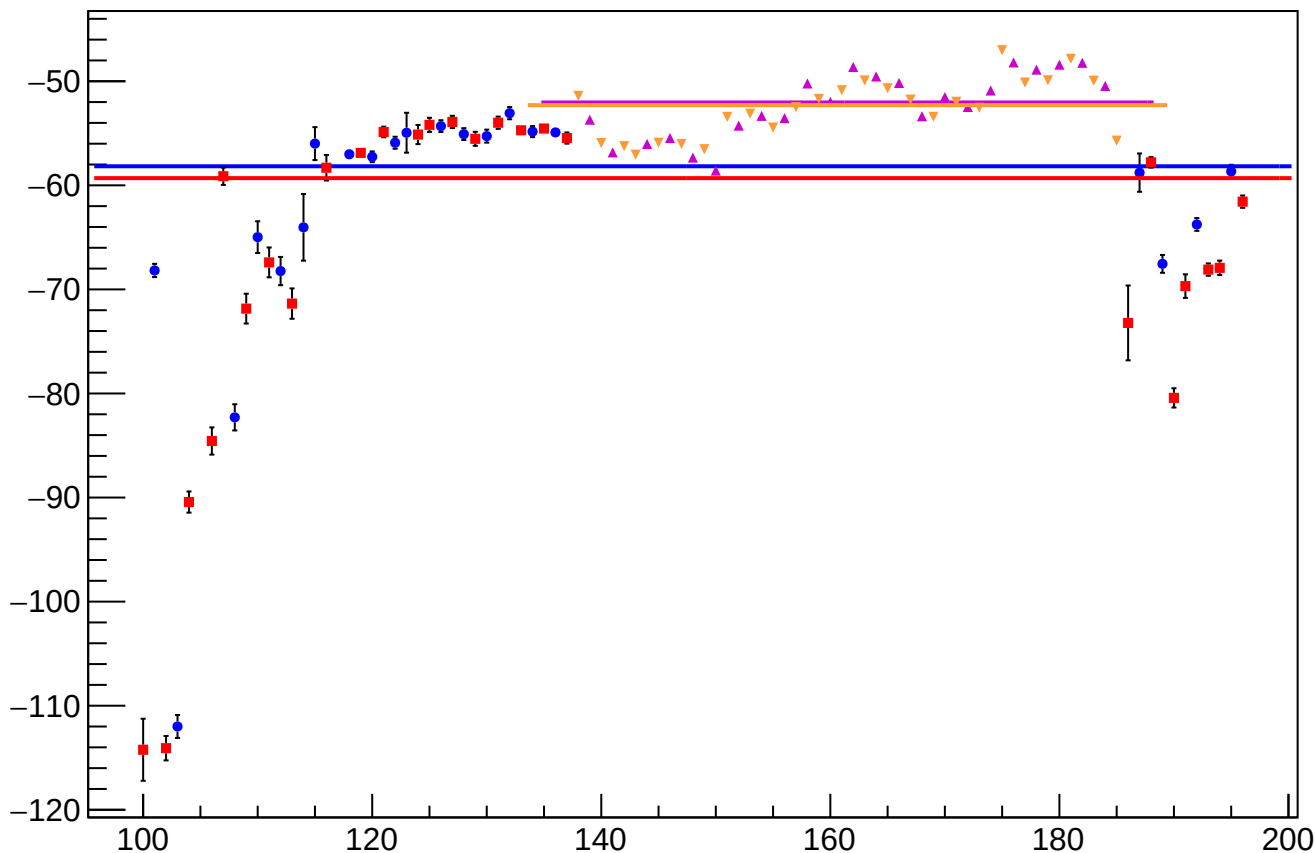
Right: -8.143 ± 0.188 χ^2/NDF : 1129.8/10

In: -7.822 ± 0.067 χ^2/NDF : 3938.0/26

Out: -8.061 ± 0.065 χ^2/NDF : 4557.8/31

All: -7.947 ± 0.047 χ^2/NDF : 8502.4/58

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.169 ± 0.134 $\chi^2/\text{NDF}: 3678.6/20$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -59.309 ± 0.126 $\chi^2/\text{NDF}: 5838.3/25$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

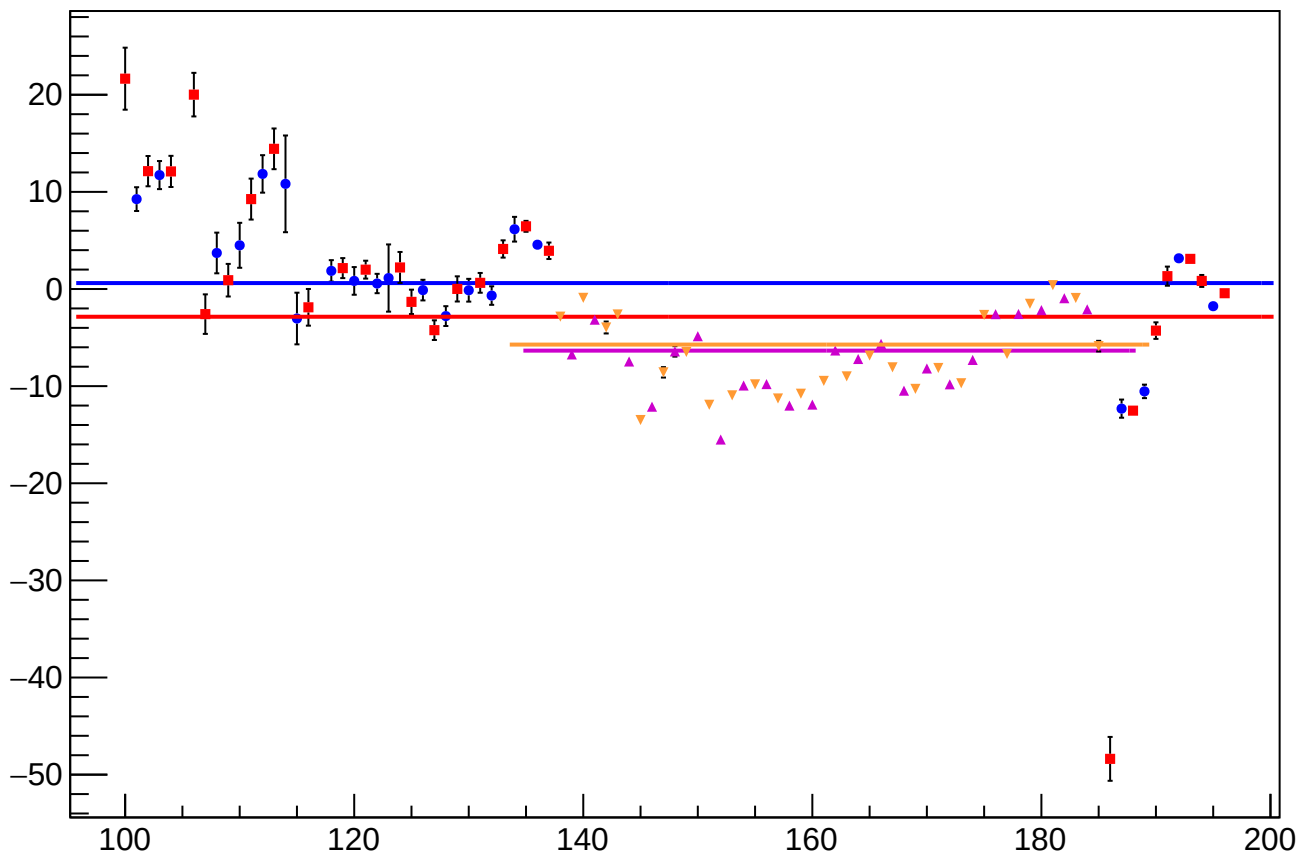
Right: -58.773 ± 0.092 $\chi^2/\text{NDF}: 9555.2/46$

In: -52.980 ± 0.053 $\chi^2/\text{NDF}: 8626.2/43$

Out: -53.414 ± 0.050 $\chi^2/\text{NDF}: 11080.6/50$

All: -53.206 ± 0.036 $\chi^2/\text{NDF}: 19742.4/94$

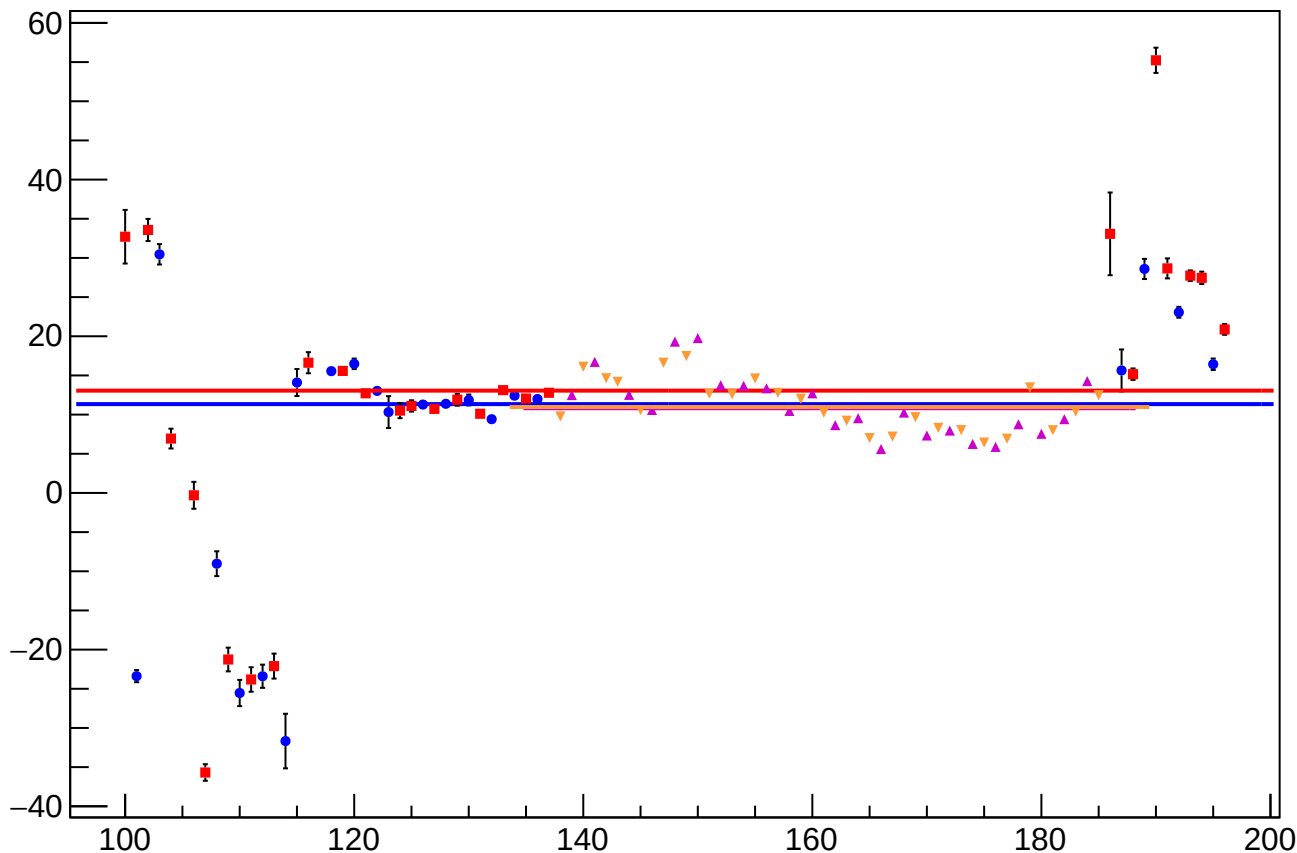
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.612 ± 0.196 $\chi^2/\text{NDF}: 781.4/20$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -2.855 ± 0.155 $\chi^2/\text{NDF}: 2818.1/25$
 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: -1.517 ± 0.122 $\chi^2/\text{NDF}: 3791.8/46$
 In: -5.584 ± 0.065 $\chi^2/\text{NDF}: 5287.8/43$
 Out: -5.266 ± 0.062 $\chi^2/\text{NDF}: 7087.4/50$
 All: -5.418 ± 0.045 $\chi^2/\text{NDF}: 12387.8/94$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.340+/-0.150 χ^2/NDF : 4247.8/20

Left Out: 10.967+/-0.061 χ^2/NDF : 2637.7/24

Right Out: 13.060+/-0.145 χ^2/NDF : 5893.4/25

Left In: 10.813+/-0.063 χ^2/NDF : 3546.8/22

Left: 10.892+/-0.044 χ^2/NDF : 6187.5/47

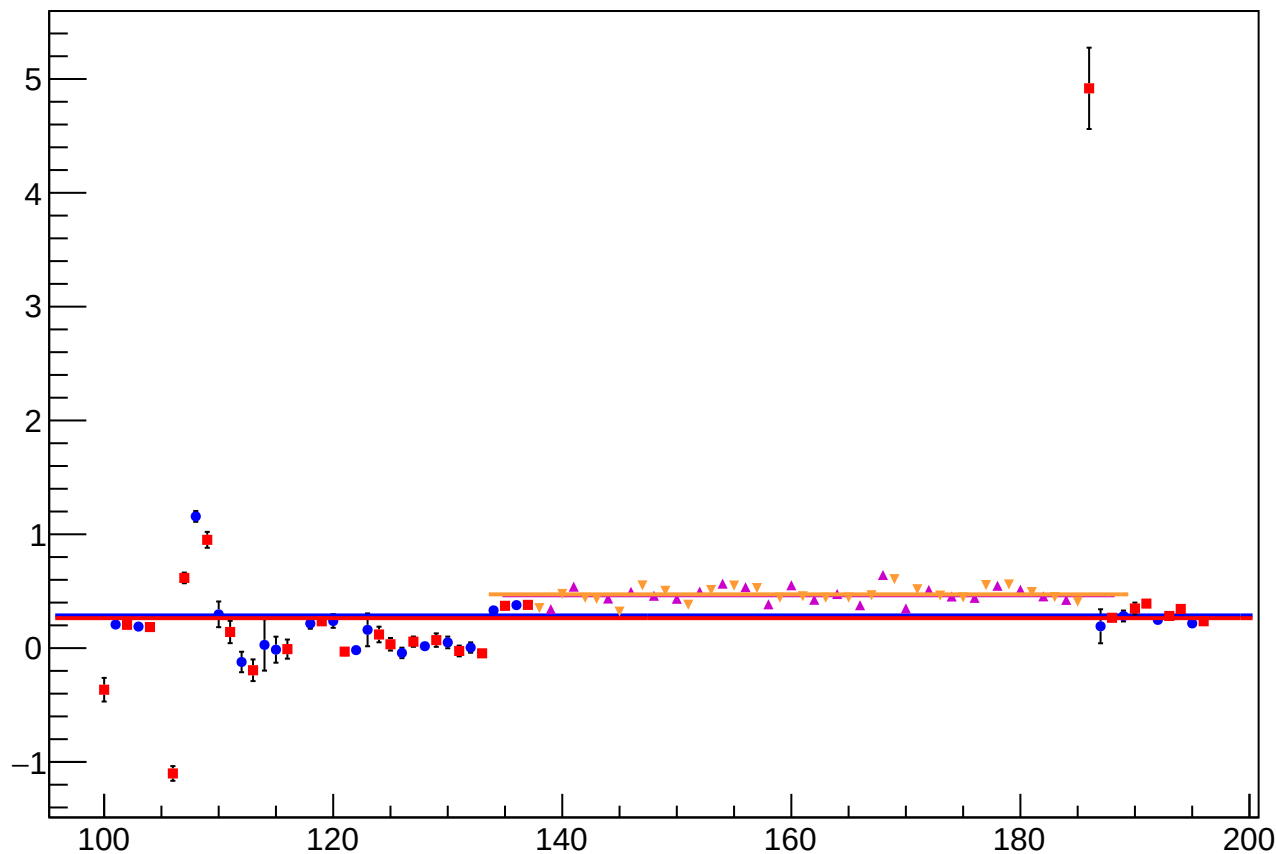
Right: 12.229+/-0.104 χ^2/NDF : 10209.5/46

In: 10.893+/-0.058 χ^2/NDF : 7805.1/43

Out: 11.286+/-0.056 χ^2/NDF : 8708.5/50

All: 11.095+/-0.041 χ^2/NDF : 16537.1/94

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.287 $\pm$ 0.007 χ^2 /NDF: 665.1/20

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.263 $\pm$ 0.007 χ^2 /NDF: 1191.0/25

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

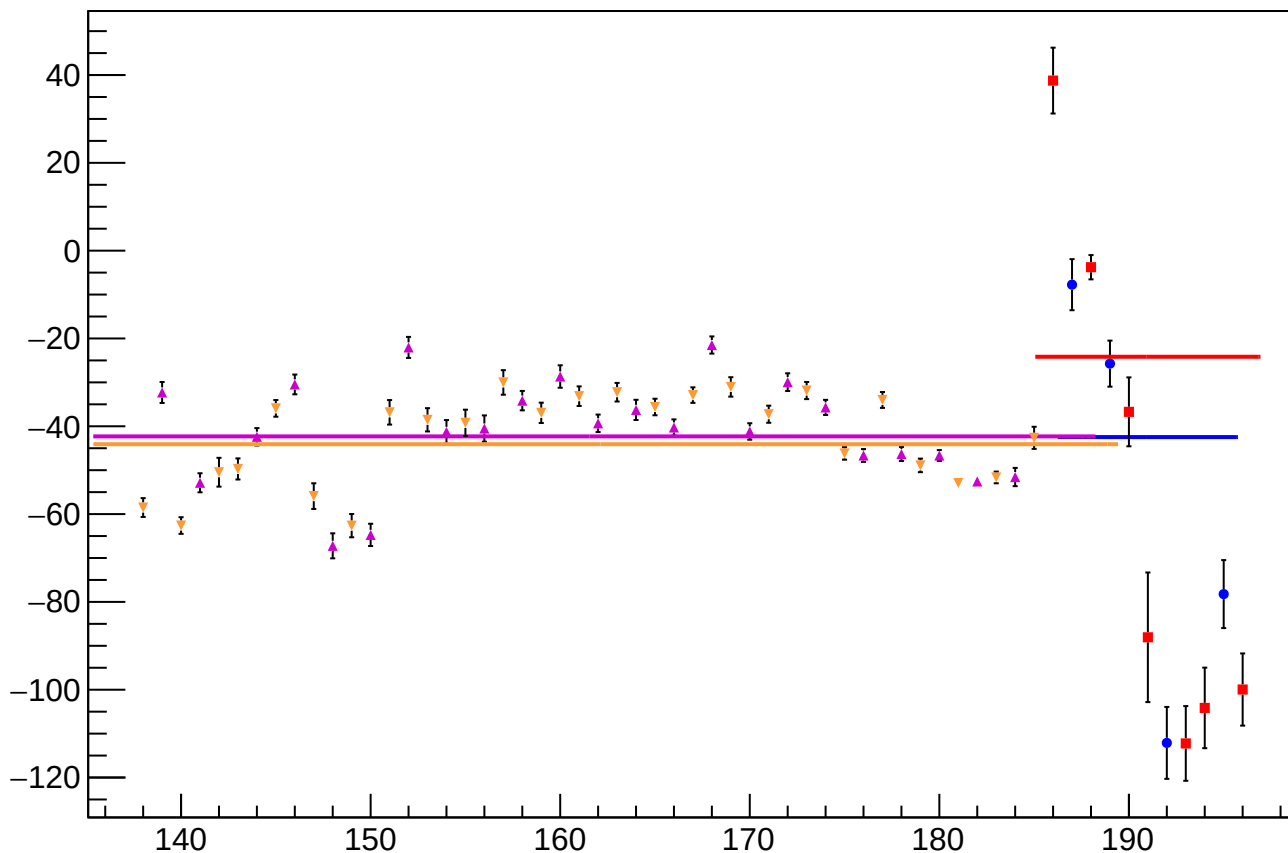
Right: 0.274 $\pm$ 0.005 χ^2 /NDF: 1862.0/46

In: 0.441 $\pm$ 0.003 χ^2 /NDF: 1930.2/43

Out: 0.442 $\pm$ 0.003 χ^2 /NDF: 2541.3/50

All: 0.441 $\pm$ 0.002 χ^2 /NDF: 4471.6/94

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -42.462 ± 3.202 $\chi^2/\text{NDF}: 139.5/3$

Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$

Right Out: -24.167 ± 2.183 $\chi^2/\text{NDF}: 414.2/6$

Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$

Right: -29.972 ± 1.804 $\chi^2/\text{NDF}: 576.0/10$

In: -42.306 ± 0.396 $\chi^2/\text{NDF}: 780.1/26$

Out: -43.466 ± 0.383 $\chi^2/\text{NDF}: 1127.4/31$

All: -42.906 ± 0.275 $\chi^2/\text{NDF}: 1911.9/58$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -43.783 ± 1.102 $\chi^2/\text{NDF}: 1516.2/20$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -50.399 ± 1.112 $\chi^2/\text{NDF}: 2159.0/25$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

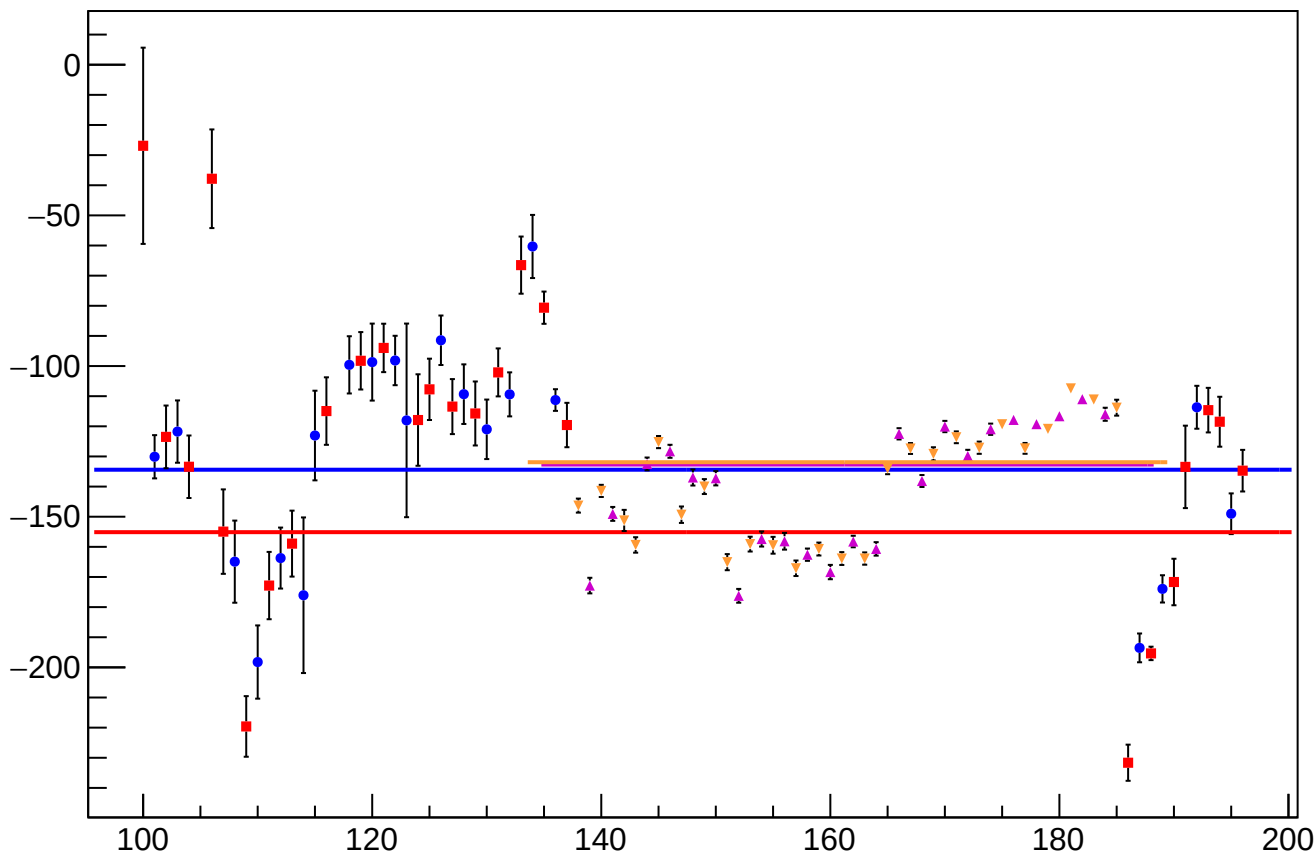
Right: -47.061 ± 0.783 $\chi^2/\text{NDF}: 3693.1/46$

In: -28.145 ± 0.313 $\chi^2/\text{NDF}: 3129.9/43$

Out: -28.661 ± 0.304 $\chi^2/\text{NDF}: 3203.2/50$

All: -28.410 ± 0.218 $\chi^2/\text{NDF}: 6334.5/94$

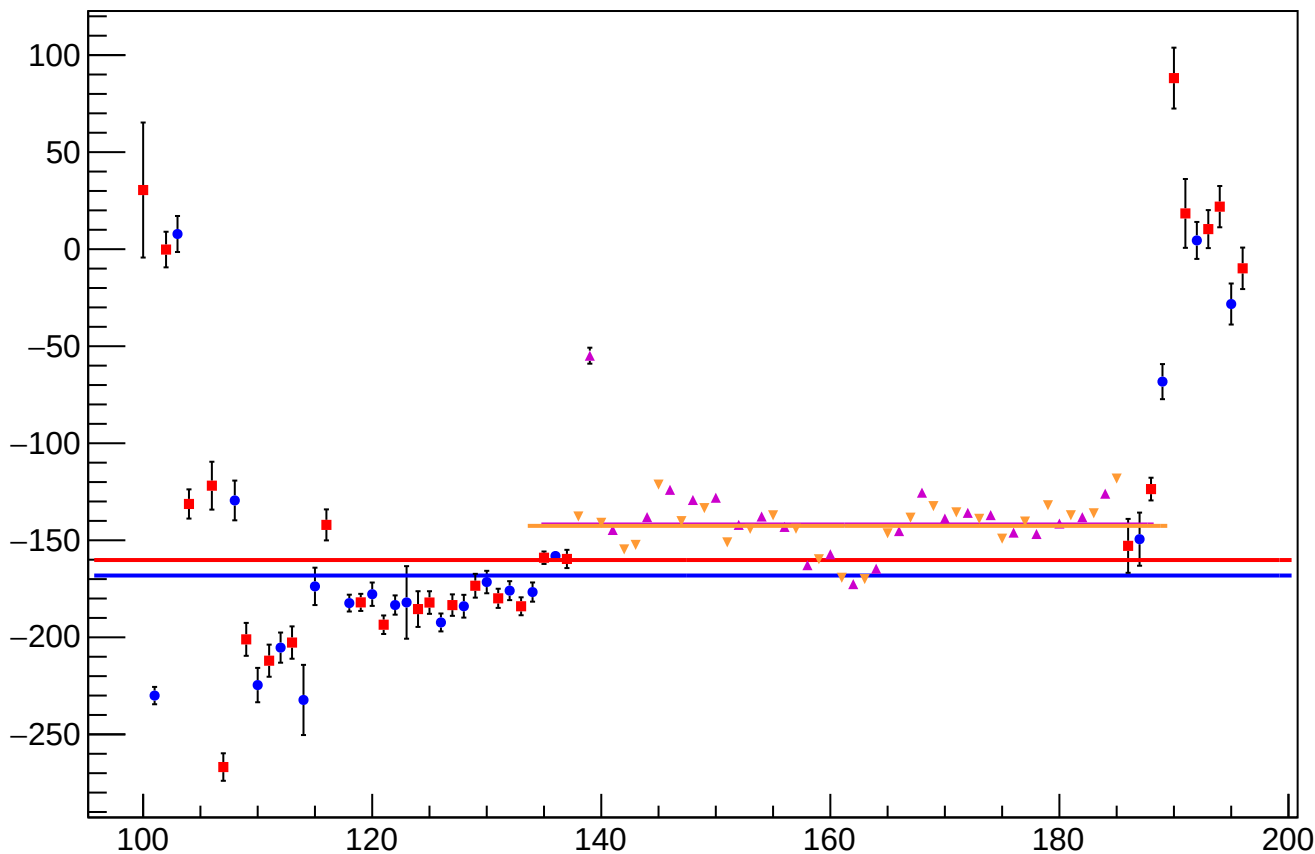
reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -134.405 ± 1.656 $\chi^2/\text{NDF}: 468.4/20$
 Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$
 Right Out: -155.127 ± 1.401 $\chi^2/\text{NDF}: 1195.9/25$
 Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$
 Right: -146.482 ± 1.070 $\chi^2/\text{NDF}: 1755.5/46$
 In: -132.784 ± 0.388 $\chi^2/\text{NDF}: 2949.6/43$
 Out: -133.593 ± 0.377 $\chi^2/\text{NDF}: 3889.8/50$
 All: -133.200 ± 0.270 $\chi^2/\text{NDF}: 6841.6/94$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -168.155 ± 1.241 χ^2/NDF : 1351.7/20

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -160.172 ± 1.279 χ^2/NDF : 2024.1/25

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

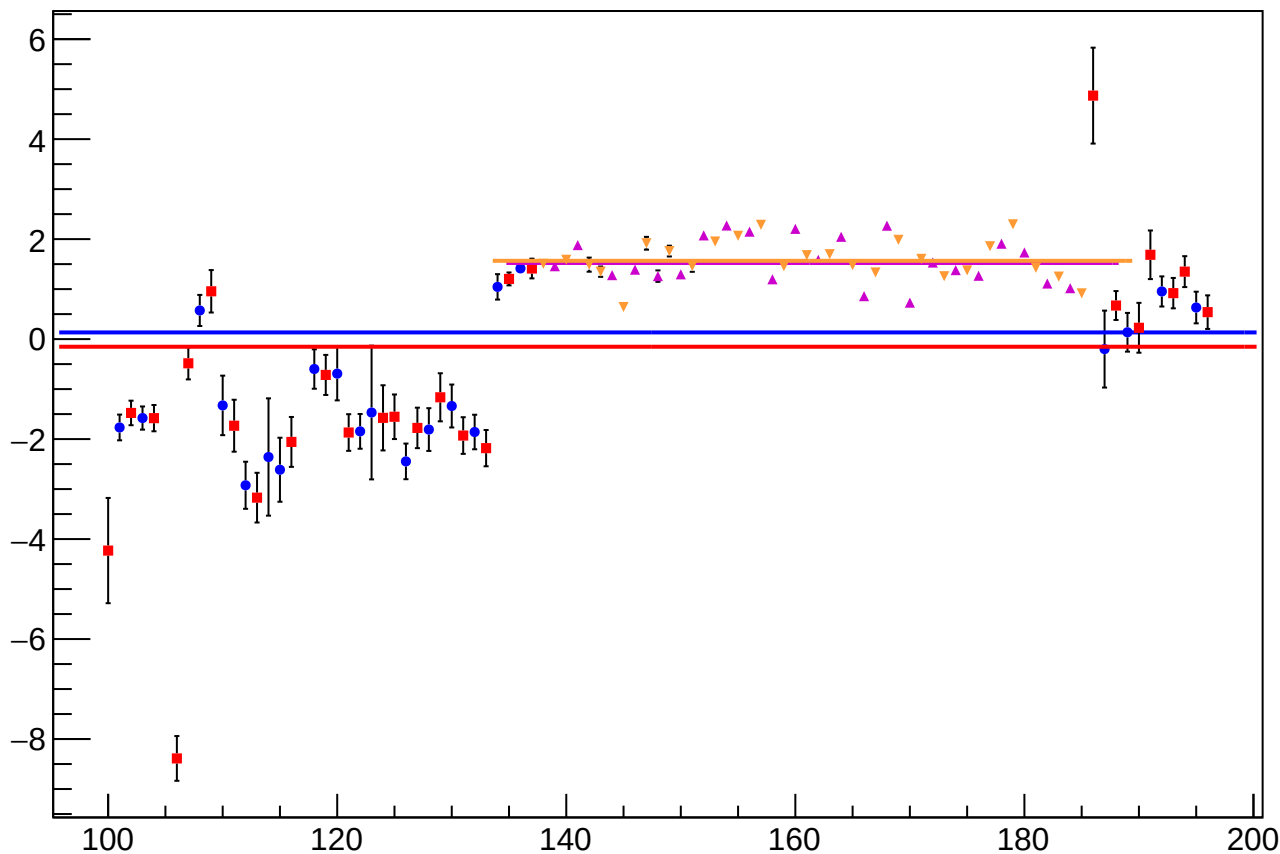
Right: -164.283 ± 0.891 χ^2/NDF : 3395.9/46

In: -143.936 ± 0.349 χ^2/NDF : 3309.3/43

Out: -143.817 ± 0.341 χ^2/NDF : 3347.9/50

All: -143.875 ± 0.244 χ^2/NDF : 6657.3/94

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.134 ± 0.063 $\chi^2/\text{NDF}: 536.0/20$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: -0.153 ± 0.064 $\chi^2/\text{NDF}: 858.6/25$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

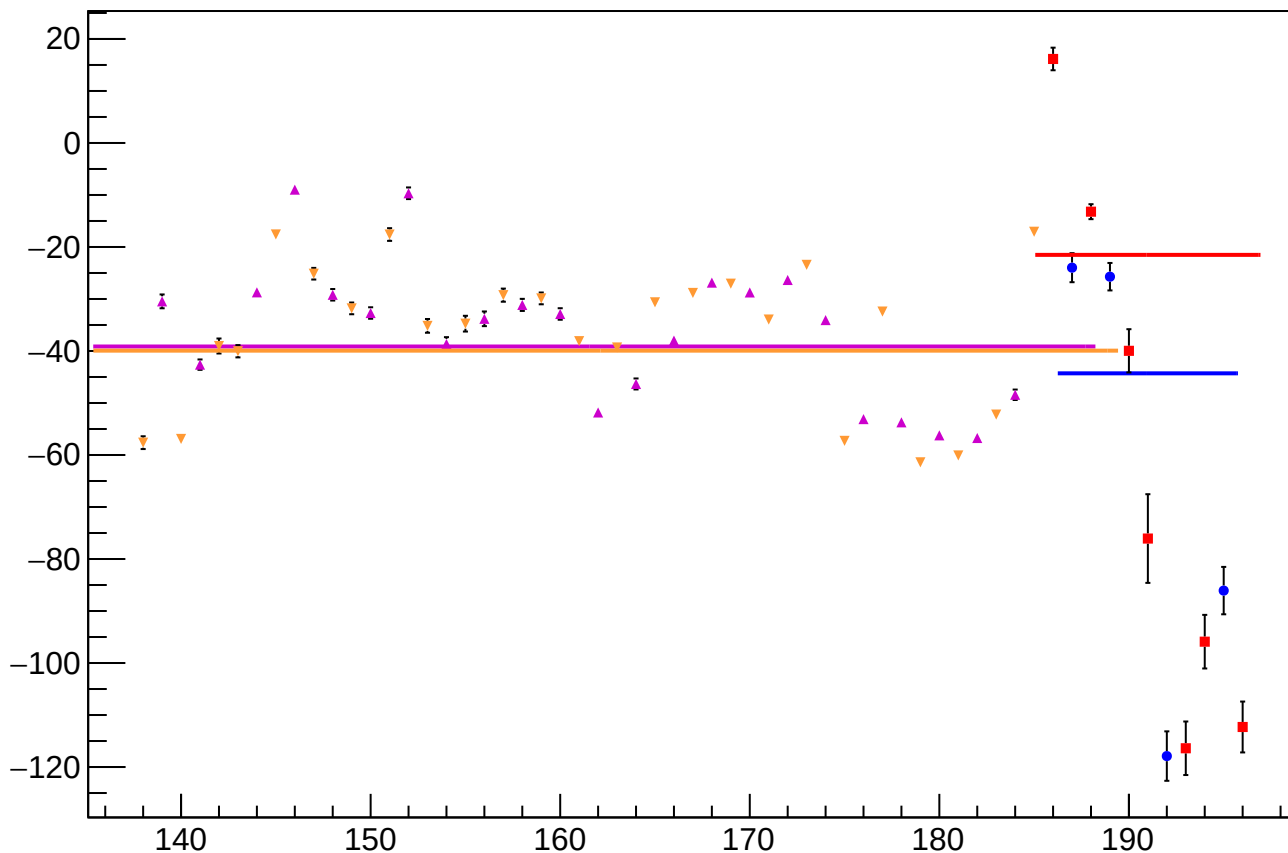
Right: -0.009 ± 0.045 $\chi^2/\text{NDF}: 1404.9/46$

In: 1.434 ± 0.016 $\chi^2/\text{NDF}: 1727.9/43$

Out: 1.462 ± 0.016 $\chi^2/\text{NDF}: 2088.5/50$

All: 1.448 ± 0.011 $\chi^2/\text{NDF}: 3817.9/94$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.297 ± 1.658 $\chi^2/\text{NDF}: 426.2/3$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -21.518 ± 1.064 $\chi^2/\text{NDF}: 1287.1/6$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

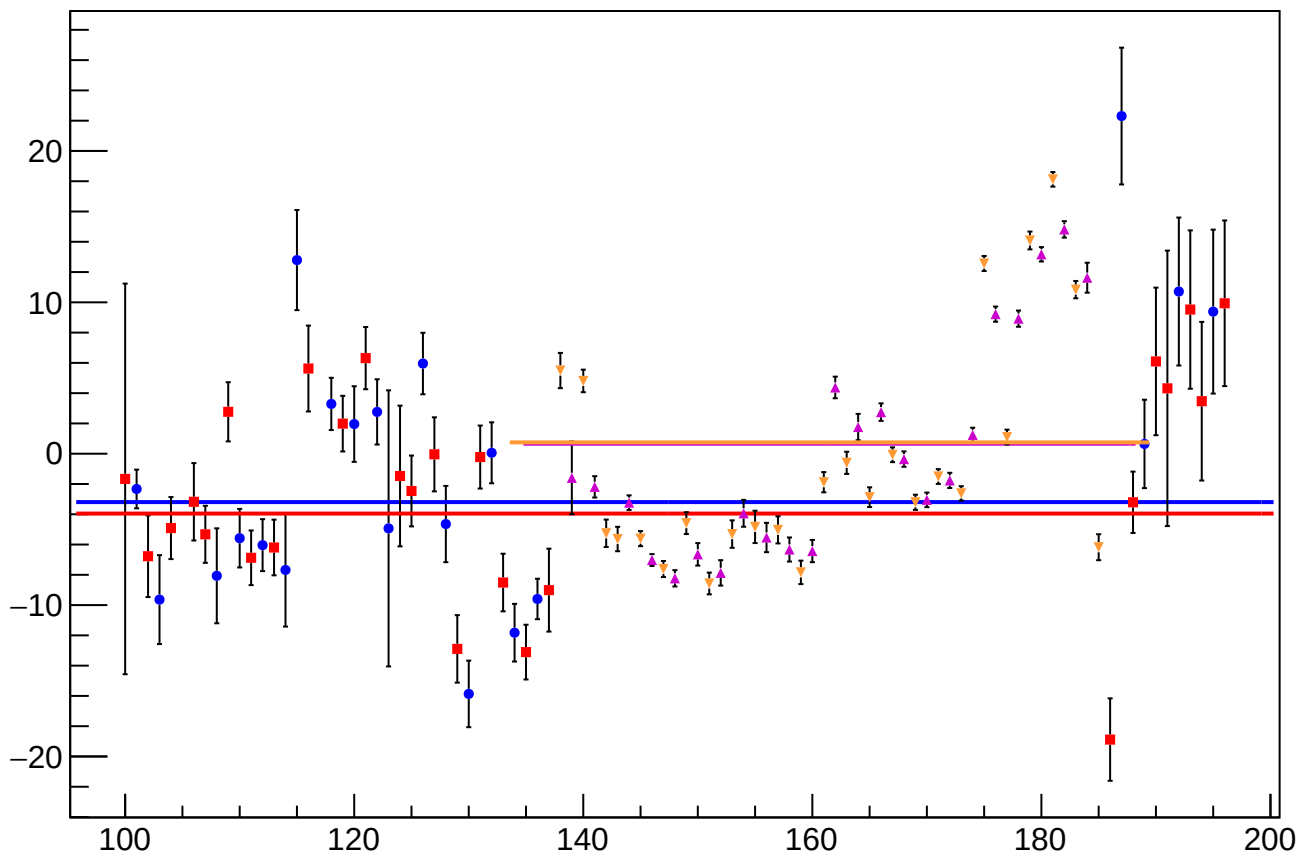
Right: -28.166 ± 0.895 $\chi^2/\text{NDF}: 1847.0/10$

In: -39.182 ± 0.154 $\chi^2/\text{NDF}: 8970.3/26$

Out: -39.561 ± 0.152 $\chi^2/\text{NDF}: 11387.0/31$

All: -39.374 ± 0.108 $\chi^2/\text{NDF}: 20360.4/58$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.196 ± 0.485 χ^2/NDF : 209.9/20

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.954 ± 0.476 χ^2/NDF : 172.4/25

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

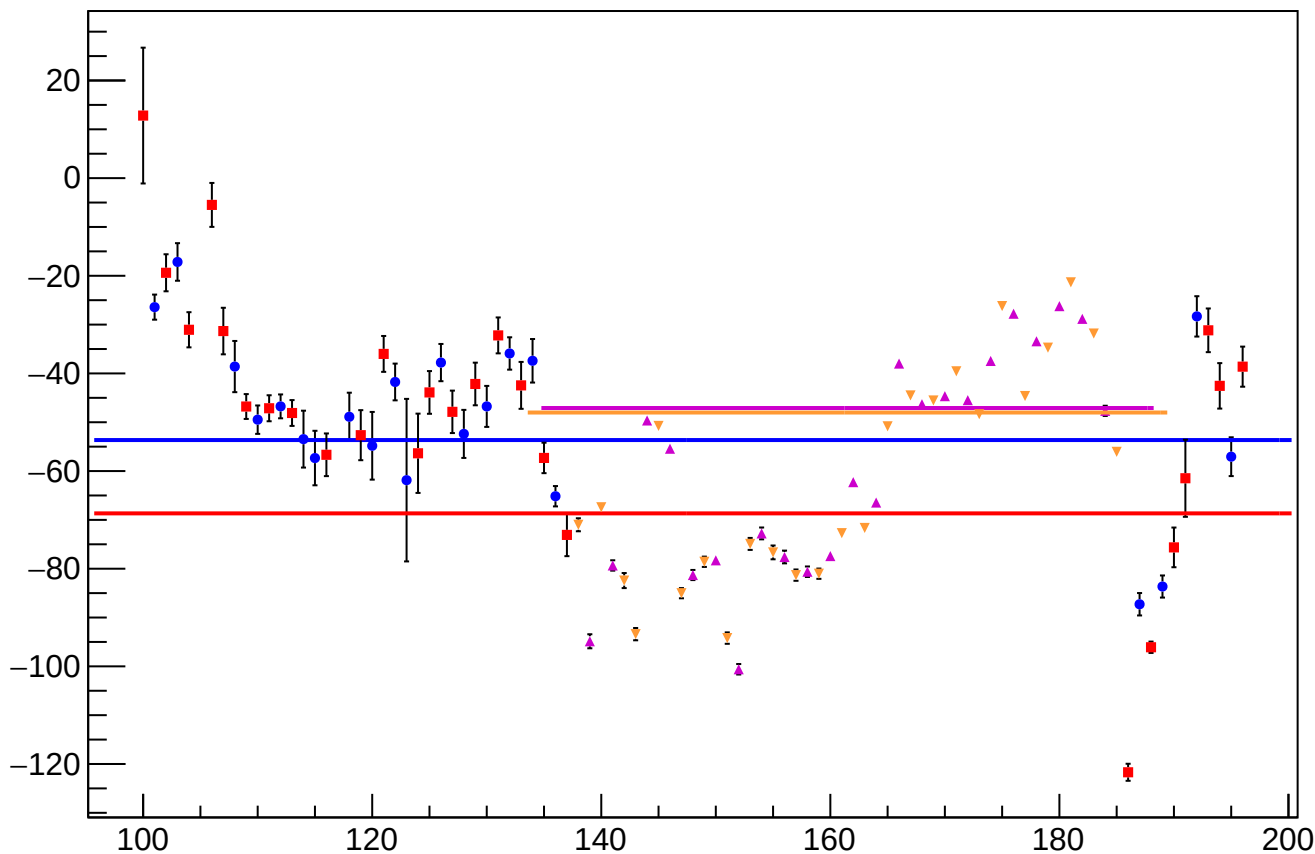
Right: -3.582 ± 0.340 χ^2/NDF : 383.5/46

In: 0.422 ± 0.120 χ^2/NDF : 3607.0/43

Out: 0.449 ± 0.120 χ^2/NDF : 4234.8/50

All: 0.436 ± 0.085 χ^2/NDF : 7841.9/94

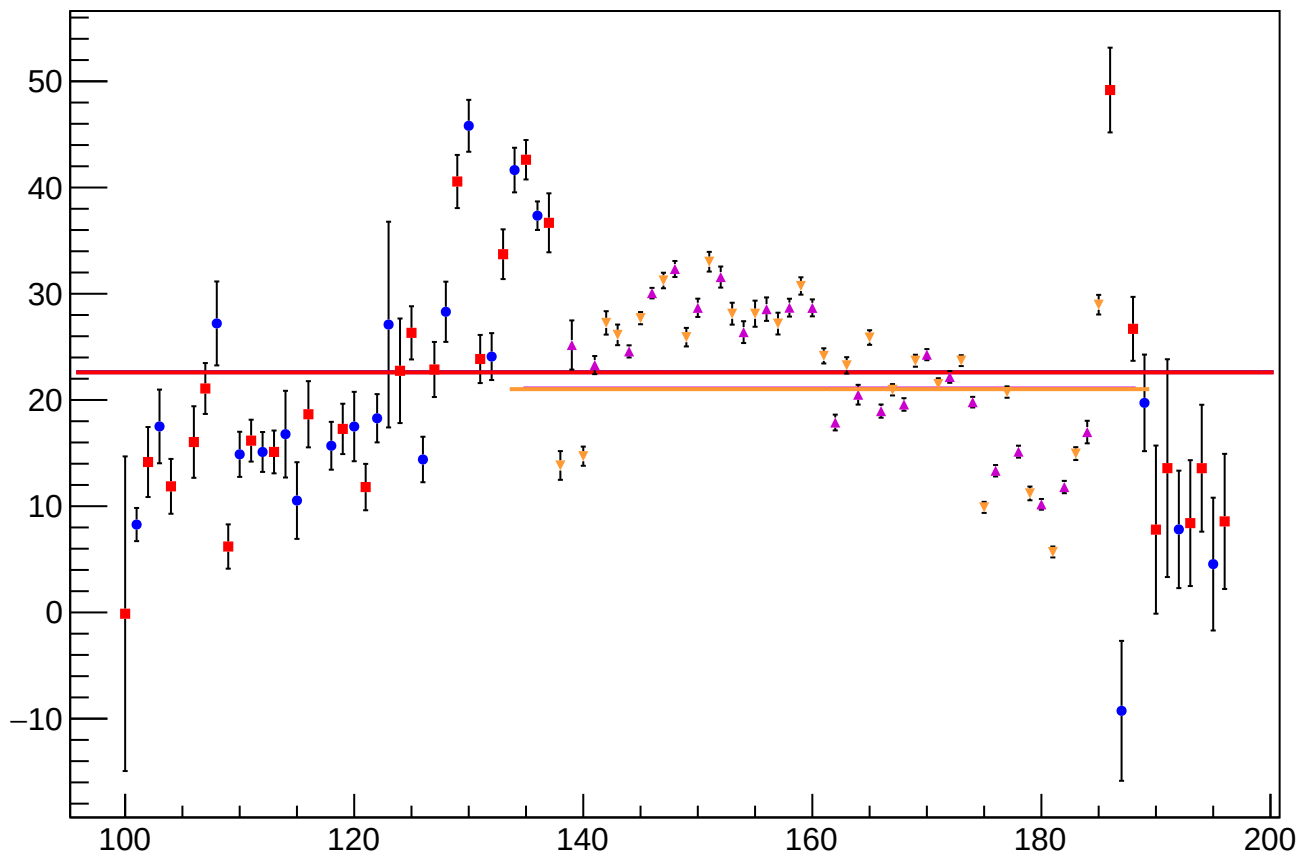
reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.648 ± 0.749 χ^2/NDF : 752.8/20
 Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24
 Right Out: -68.666 ± 0.620 χ^2/NDF : 2745.2/25
 Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47
 Right: -62.553 ± 0.478 χ^2/NDF : 3736.5/46
 In: -47.356 ± 0.152 χ^2/NDF : 16341.7/43
 Out: -49.216 ± 0.150 χ^2/NDF : 20739.0/50
 All: -48.298 ± 0.107 χ^2/NDF : 37156.4/94

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.614 $\pm$ 0.549 χ^2 /NDF: 497.3/20

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.599 $\pm$ 0.549 χ^2 /NDF: 429.9/25

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

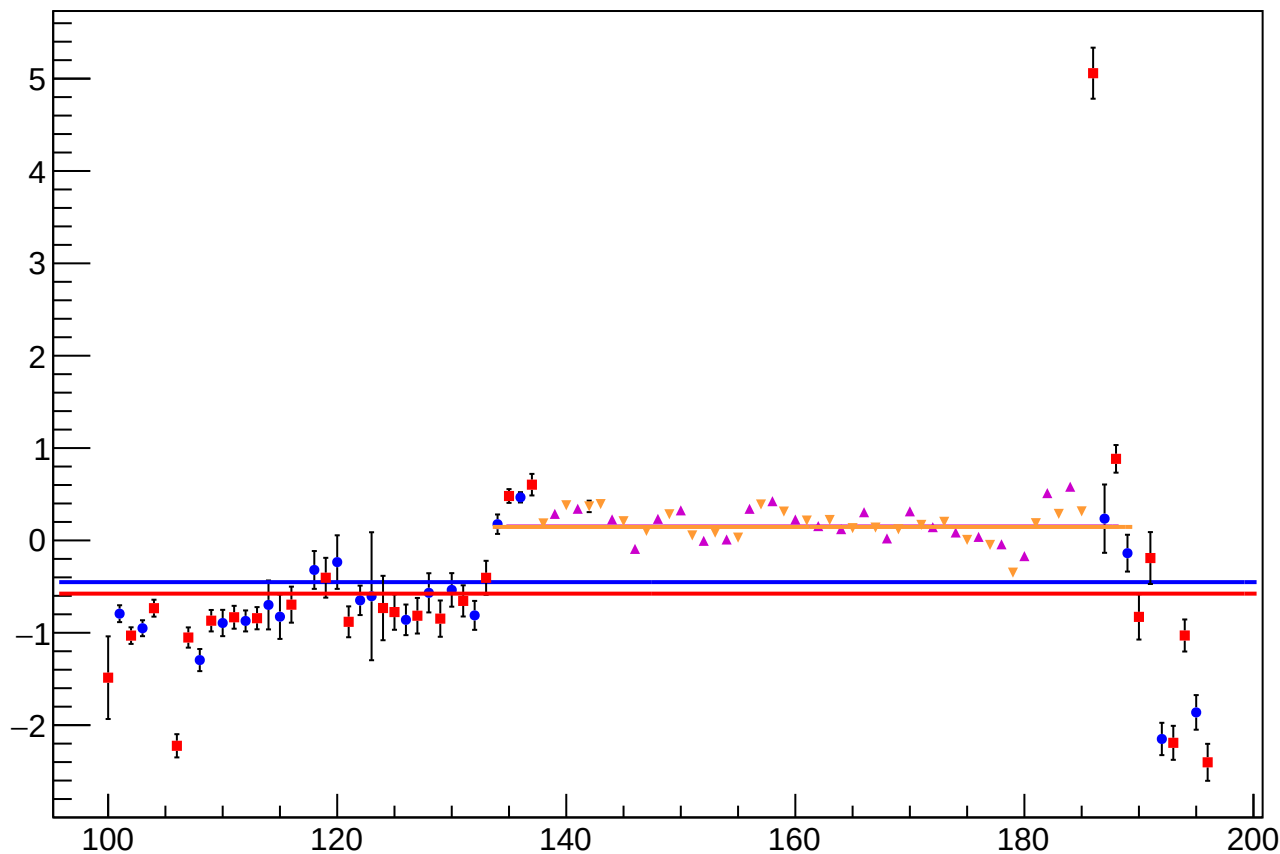
Right: 22.607 $\pm$ 0.388 χ^2 /NDF: 927.3/46

In: 21.172 $\pm$ 0.135 χ^2 /NDF:2677.9/43

Out: 21.115 $\pm$ 0.135 χ^2 /NDF:3237.0/50

All: 21.143 $\pm$ 0.095 χ^2 /NDF: 5915.0/94

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.452 ± 0.029 $\chi^2/\text{NDF}: 600.7/20$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.576 ± 0.028 $\chi^2/\text{NDF}: 1233.1/25$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

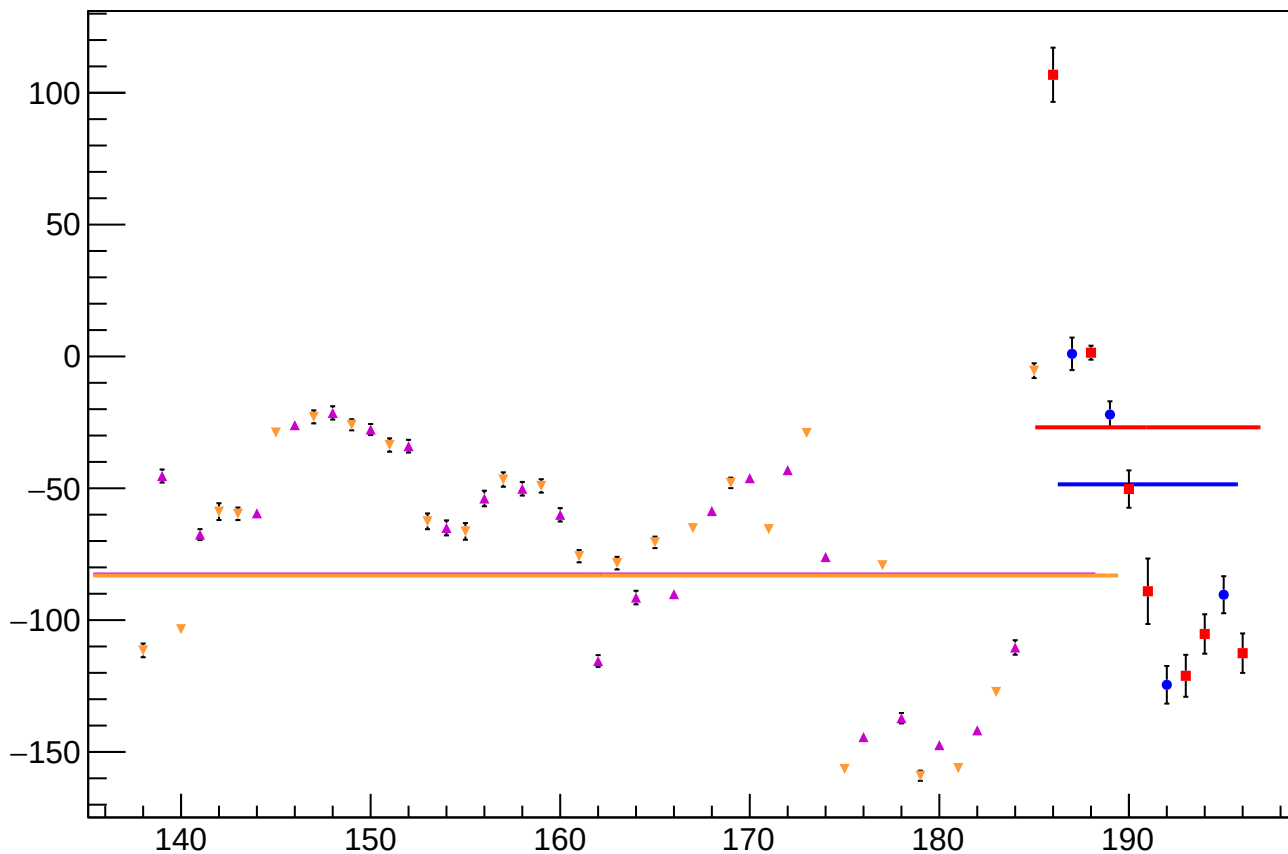
Right: -0.516 ± 0.020 $\chi^2/\text{NDF}: 1843.4/46$

In: 0.123 ± 0.006 $\chi^2/\text{NDF}: 1883.7/43$

Out: 0.111 ± 0.006 $\chi^2/\text{NDF}: 2472.8/50$

All: 0.117 ± 0.004 $\chi^2/\text{NDF}: 4358.2/94$

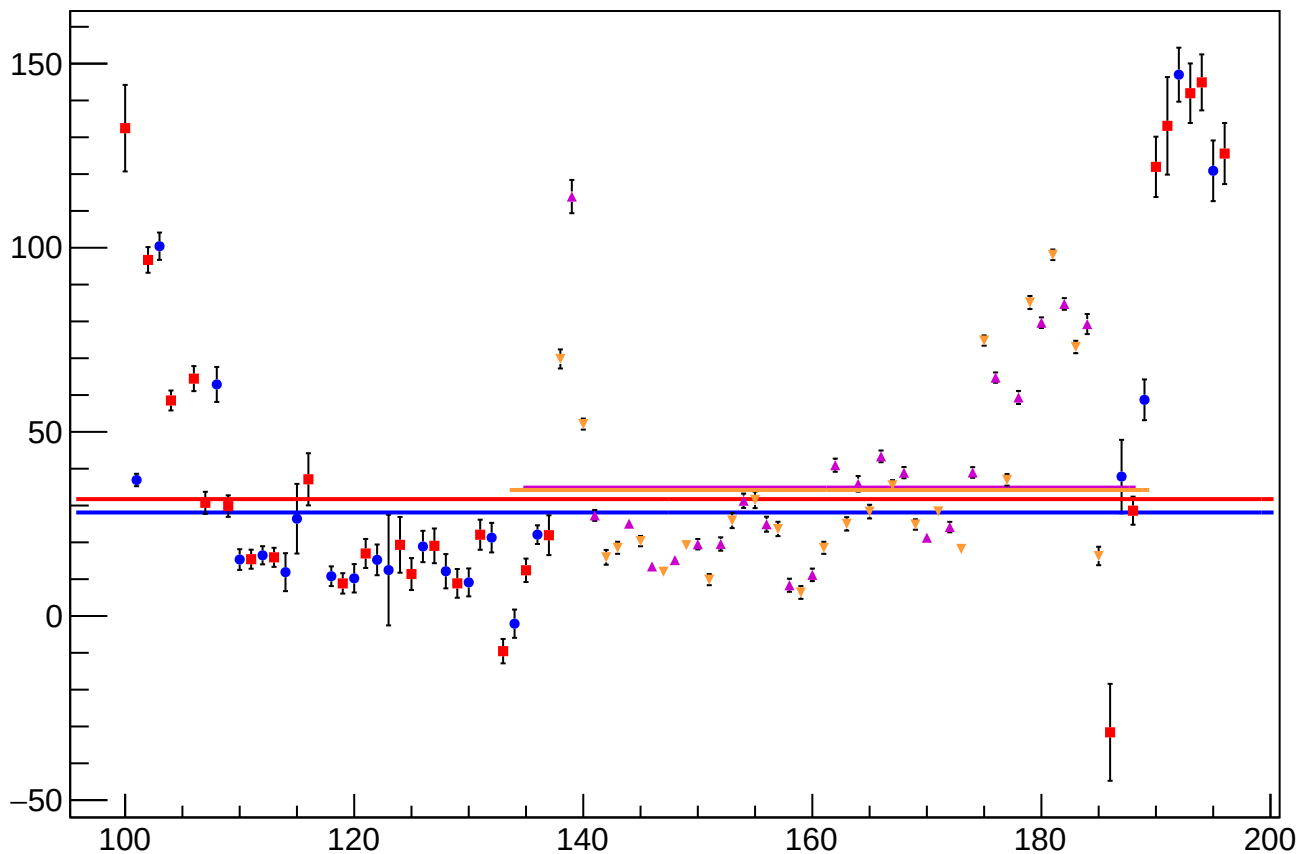
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -48.507 ± 3.078 $\chi^2/\text{NDF}: 241.1/3$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -26.884 ± 2.088 $\chi^2/\text{NDF}: 700.0/6$
 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: -33.698 ± 1.728 $\chi^2/\text{NDF}: 974.9/10$
 In: -82.099 ± 0.411 $\chi^2/\text{NDF}: 11203.8/26$
 Out: -81.017 ± 0.399 $\chi^2/\text{NDF}: 15215.2/31$
 All: -81.542 ± 0.286 $\chi^2/\text{NDF}: 26422.6/58$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 28.110 ± 0.788 $\chi^2/\text{NDF}: 1121.8/20$

Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$

Right Out: 31.741 ± 0.775 $\chi^2/\text{NDF}: 1779.3/25$

Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$

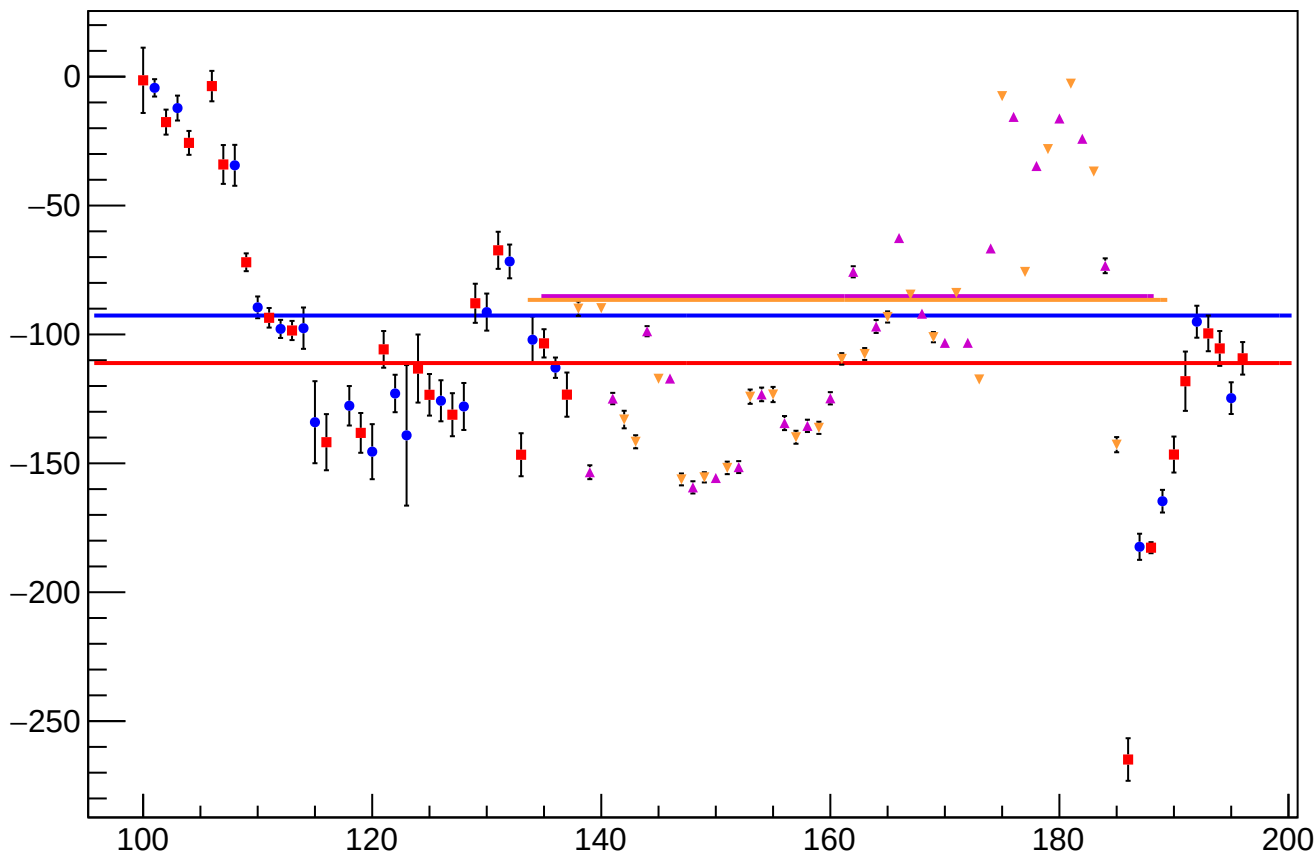
Right: 29.956 ± 0.553 $\chi^2/\text{NDF}: 2911.9/46$

In: 33.866 ± 0.304 $\chi^2/\text{NDF}: 5900.6/43$

Out: 33.858 ± 0.296 $\chi^2/\text{NDF}: 7980.6/50$

All: 33.862 ± 0.212 $\chi^2/\text{NDF}: 13881.2/94$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -92.664 ± 1.250 $\chi^2/\text{NDF}: 1772.7/20$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -111.099 ± 1.070 $\chi^2/\text{NDF}: 2972.7/25$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

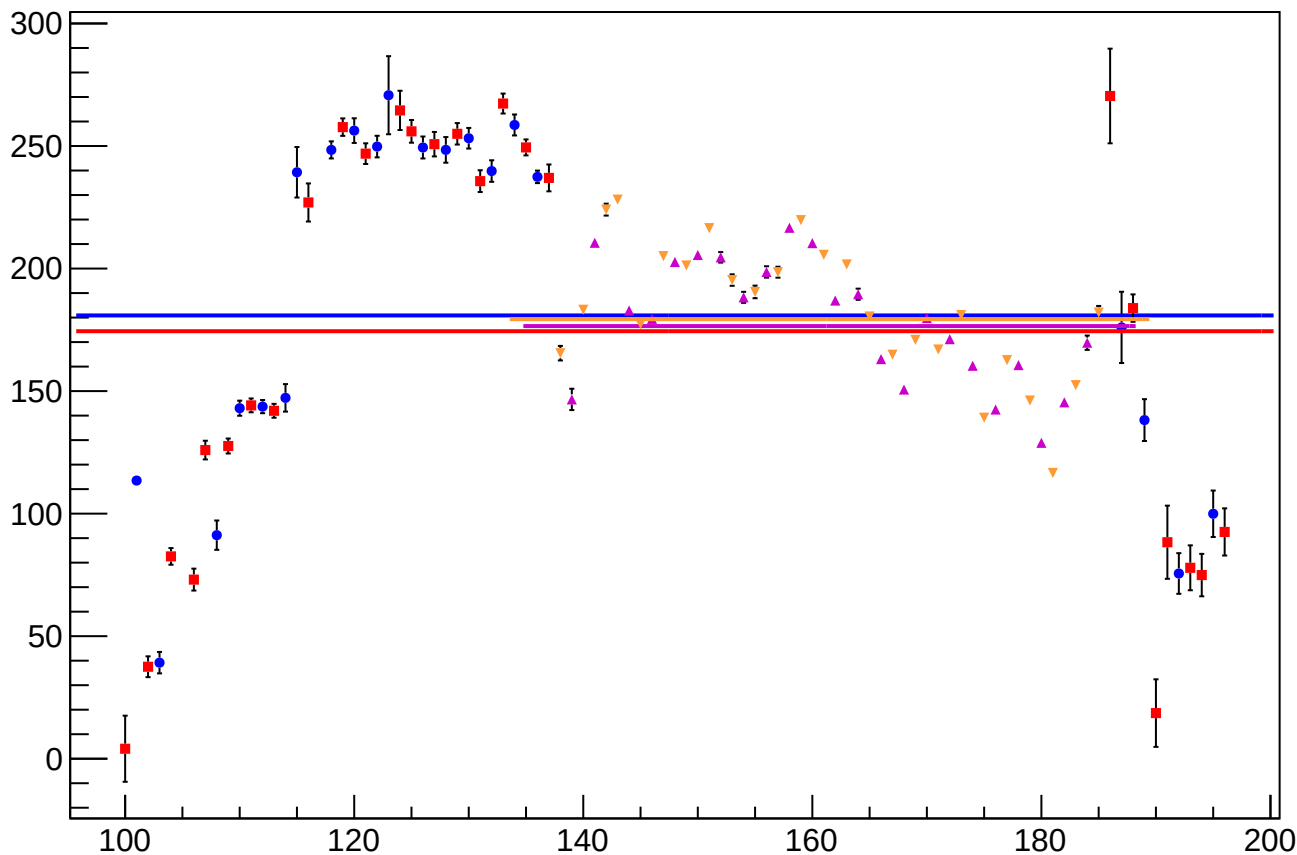
Right: -103.305 ± 0.813 $\chi^2/\text{NDF}: 4870.9/46$

In: -85.882 ± 0.394 $\chi^2/\text{NDF}: 14646.7/43$

Out: -89.712 ± 0.382 $\chi^2/\text{NDF}: 17946.2/50$

All: -87.857 ± 0.274 $\chi^2/\text{NDF}: 32641.7/94$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 180.874 $\pm$ 0.904 χ^2 /NDF: 5585.2/20

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF:5982.2/24

Right Out: 174.437 $\pm$ 0.895 χ^2 /NDF: 6854.4/25

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF:4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

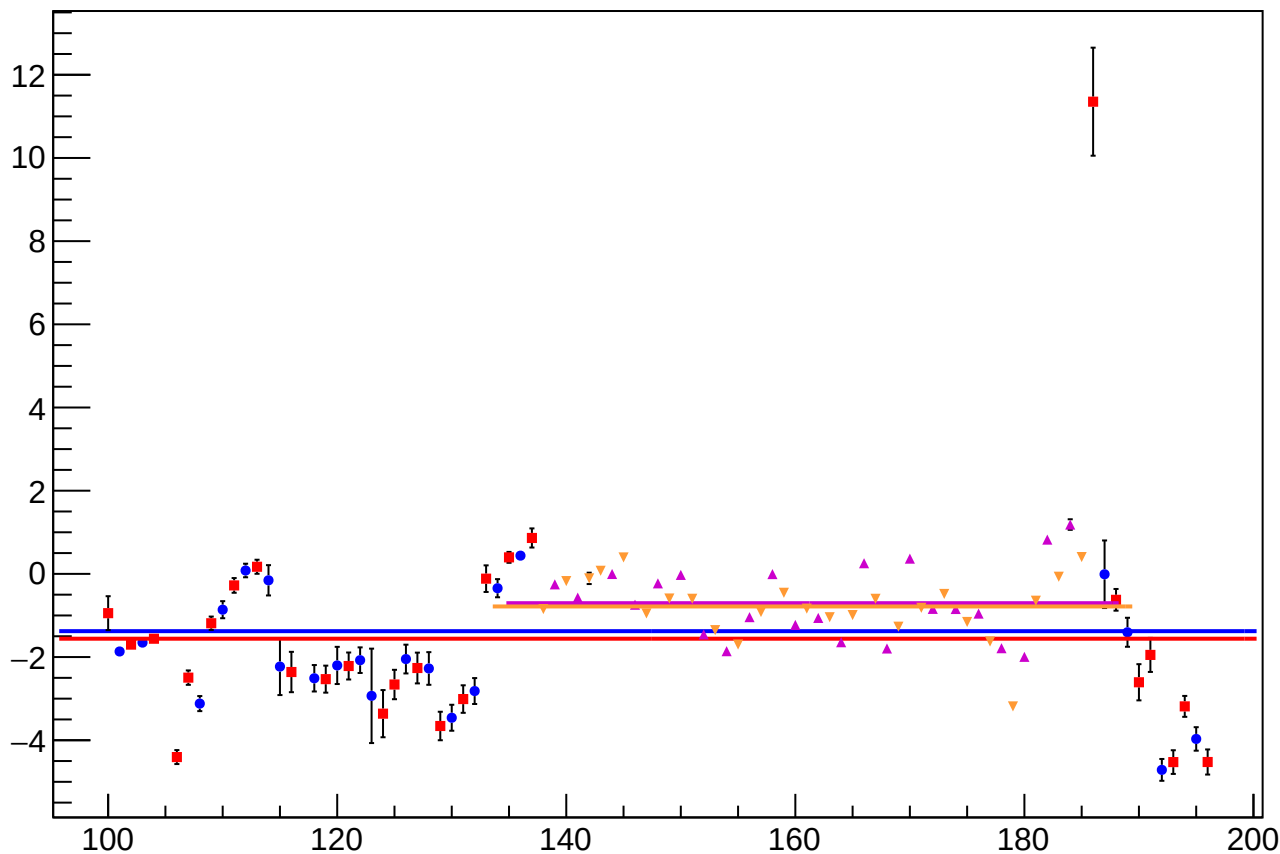
Right: 177.624 $\pm$ 0.636 χ^2 /NDF: 12465.3/46

In: 177.158 $\pm$ 0.343 χ^2 /NDF:10031.0/43

Out: 178.667 $\pm$ 0.335 χ^2 /NDF:12862.6/50

All: 177.930 $\pm$ 0.240 χ^2 /NDF: 22903.5/94

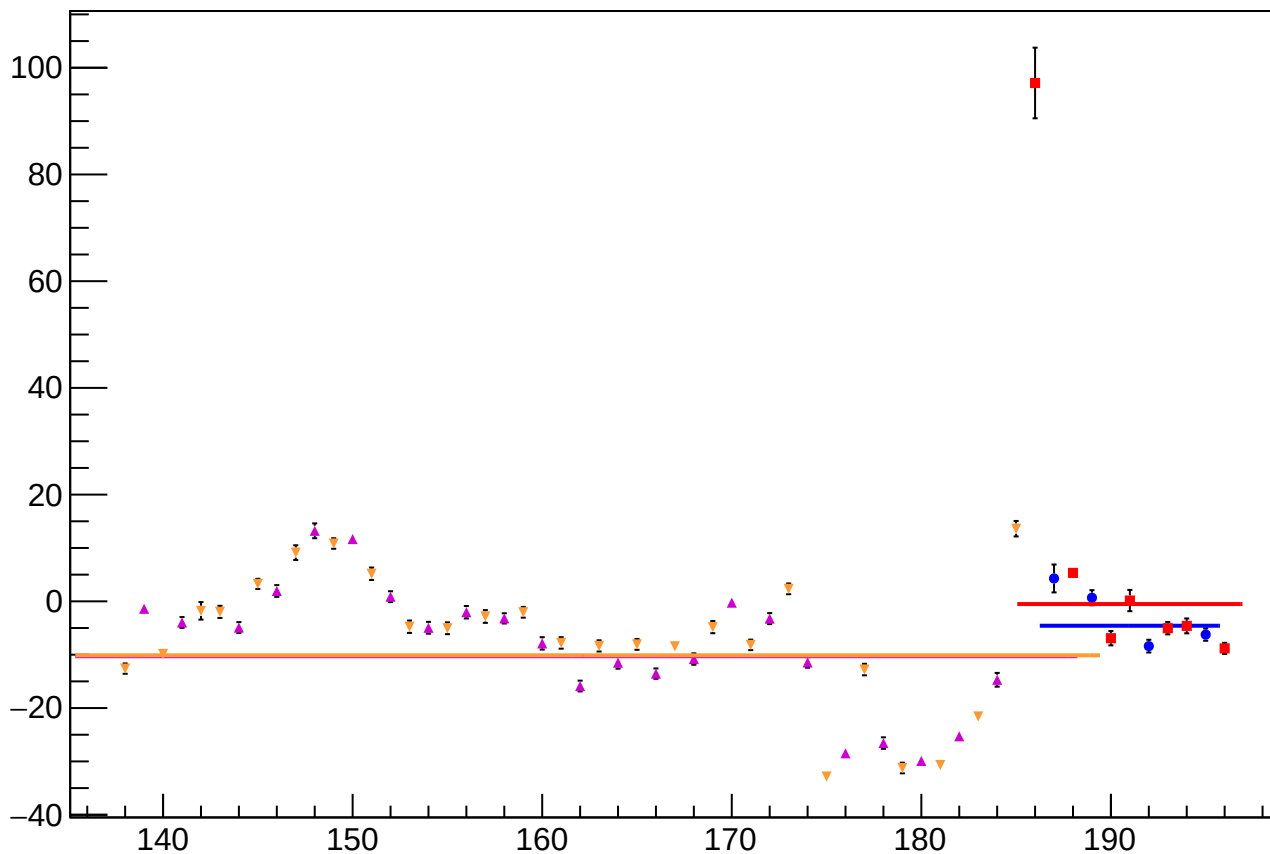
reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.377 ± 0.046 $\chi^2/\text{NDF}: 883.4/20$
 Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$
 Right Out: -1.559 ± 0.043 $\chi^2/\text{NDF}: 1298.6/25$
 Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$
 Right: -1.475 ± 0.031 $\chi^2/\text{NDF}: 2190.3/46$
 In: -0.784 ± 0.016 $\chi^2/\text{NDF}: 3477.4/43$
 Out: -0.884 ± 0.015 $\chi^2/\text{NDF}: 3353.4/50$
 All: -0.835 ± 0.011 $\chi^2/\text{NDF}: 6851.0/94$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.574 ± 0.692 $\chi^2/\text{NDF}: 37.4/3$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -0.507 ± 0.429 $\chi^2/\text{NDF}: 410.9/6$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

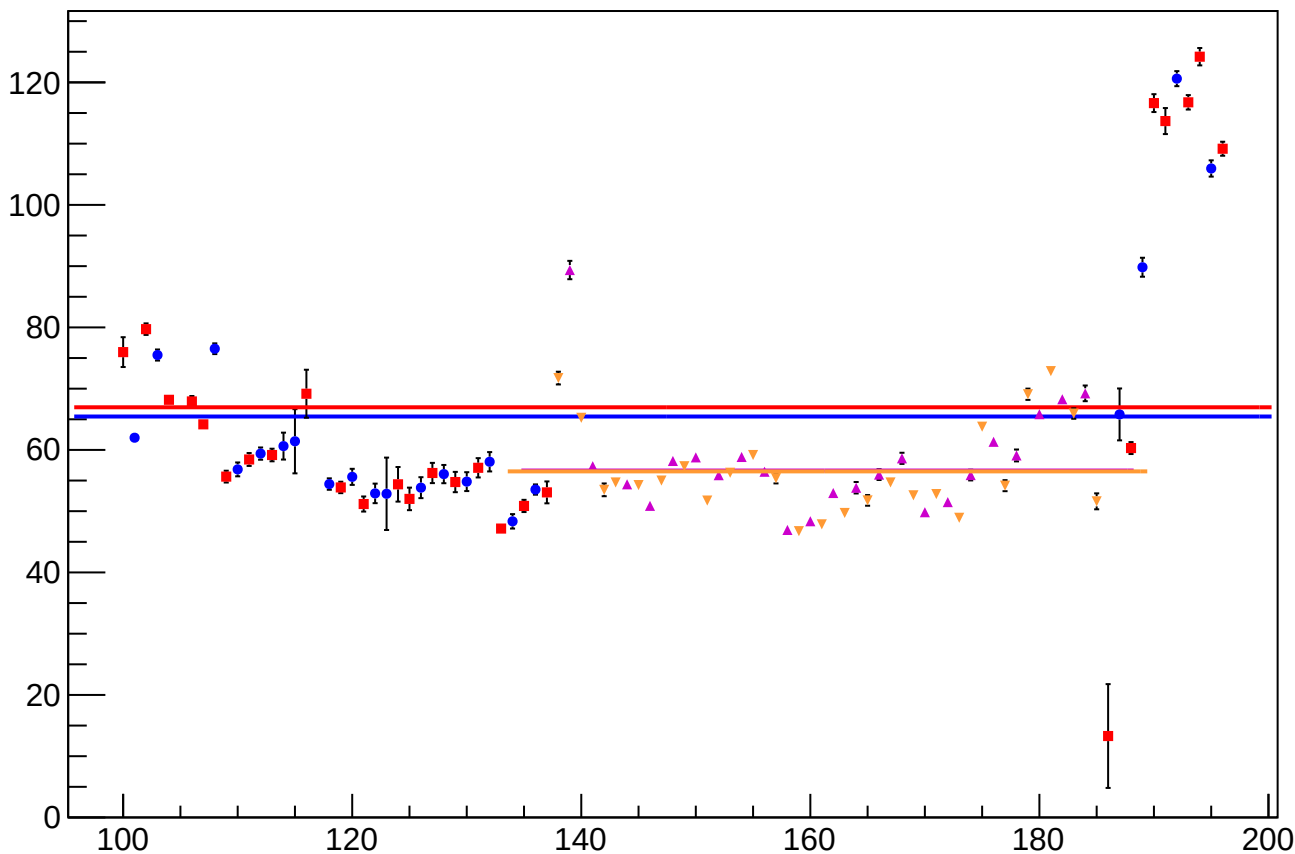
Right: -1.635 ± 0.364 $\chi^2/\text{NDF}: 473.4/10$

In: -9.827 ± 0.197 $\chi^2/\text{NDF}: 3551.2/26$

Out: -8.379 ± 0.182 $\chi^2/\text{NDF}: 4961.0/31$

All: -9.047 ± 0.134 $\chi^2/\text{NDF}: 8541.3/58$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 65.453 $\pm$ 0.249 χ^2 /NDF: 4451.7/20

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 66.960 $\pm$ 0.224 χ^2 /NDF: 8747.7/25

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

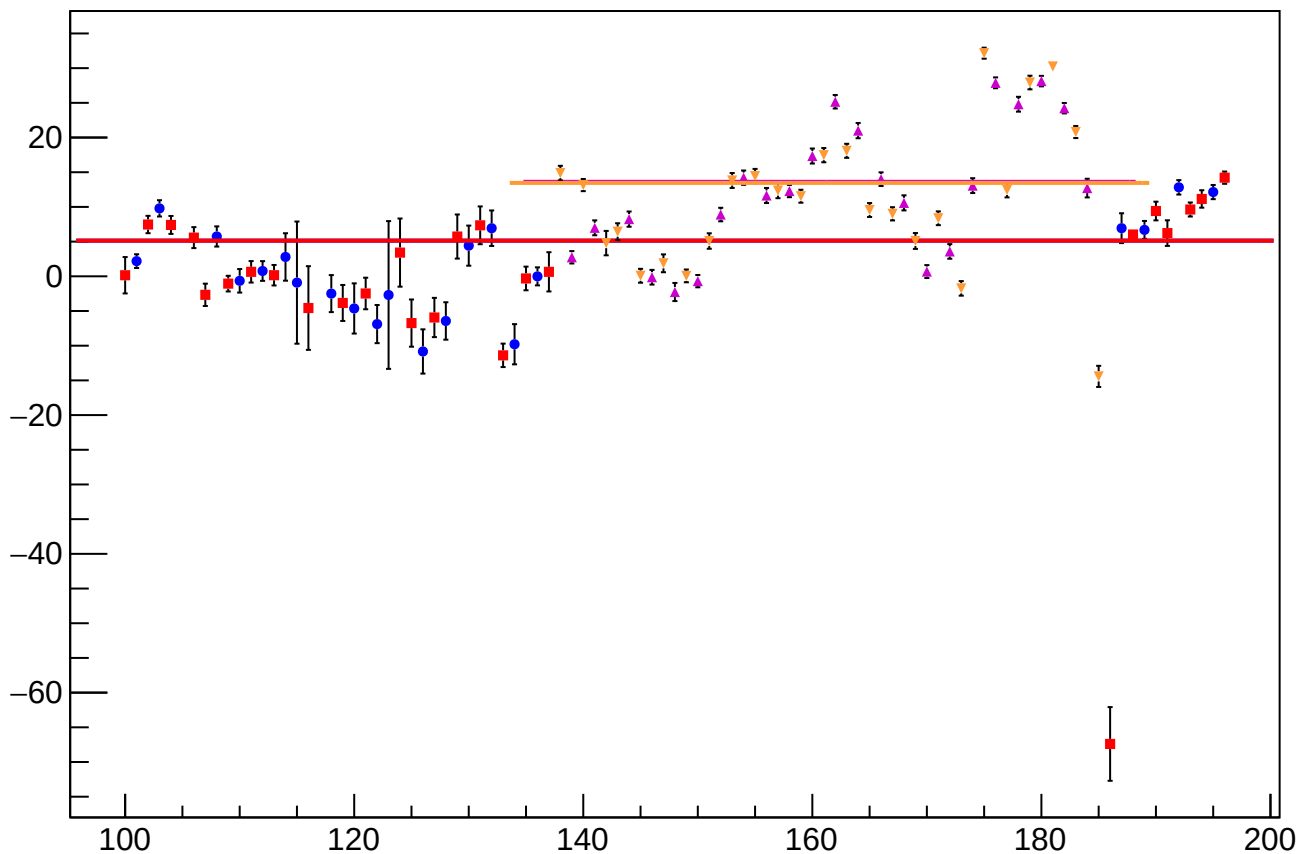
Right: 66.288 $\pm$ 0.166 χ^2 /NDF: 13219.6/46

In: 59.328 $\pm$ 0.138 χ^2 /NDF:6930.6/43

Out: 60.007 $\pm$ 0.130 χ^2 /NDF:12171.1/50

All: 59.688 $\pm$ 0.094 χ^2 /NDF: 19114.6/94

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.141 ± 0.367 χ^2/NDF : 271.8/20

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 5.144 ± 0.277 χ^2/NDF : 594.5/25

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

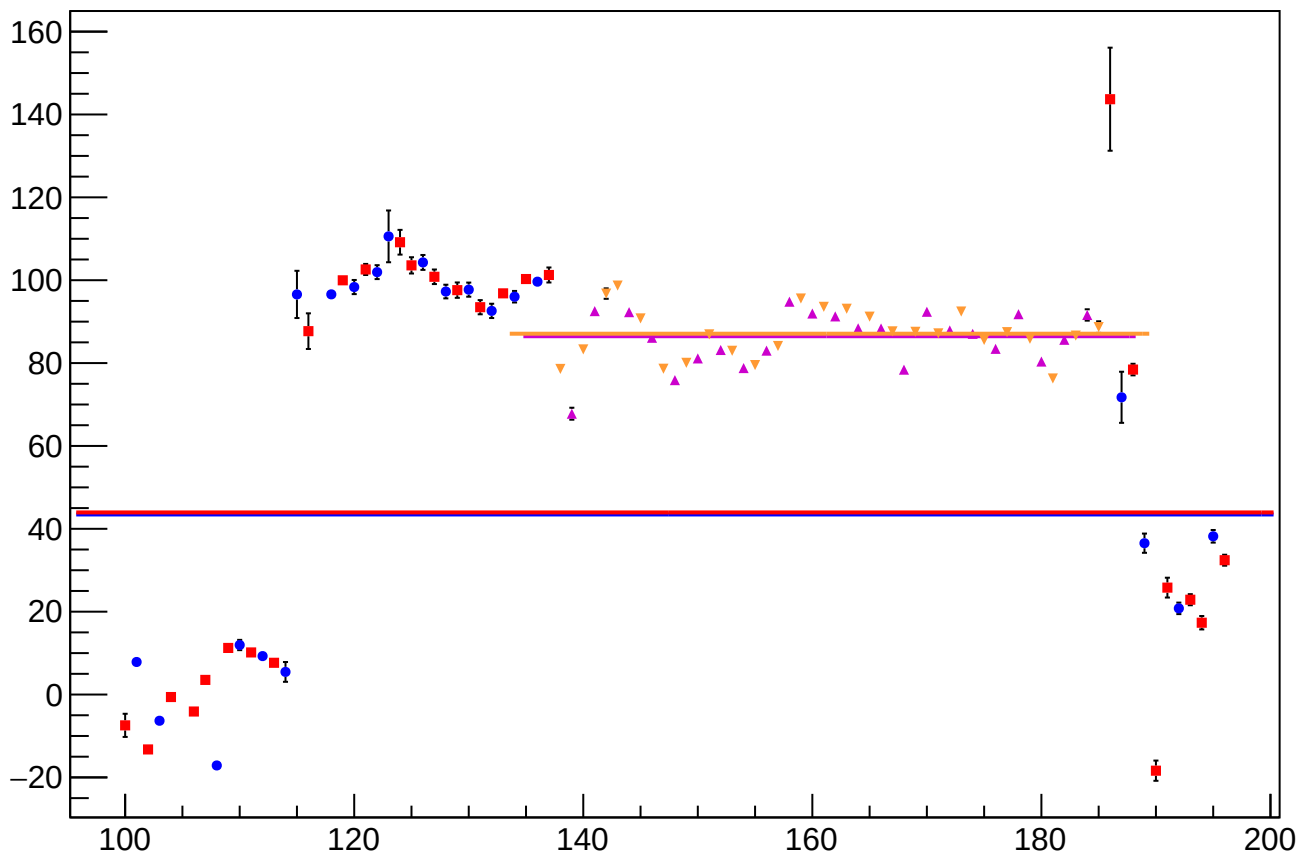
Right: 5.143 ± 0.221 χ^2/NDF : 866.3/46

In: 11.610 ± 0.179 χ^2/NDF : 2994.9/43

Out: 10.586 ± 0.163 χ^2/NDF : 3920.1/50

All: 11.051 ± 0.120 χ^2/NDF : 6932.9/94

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.463 $\pm$ 0.290 χ^2 /NDF: 25027.9/20

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 43.953 $\pm$ 0.265 χ^2 /NDF: 30241.0/25

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

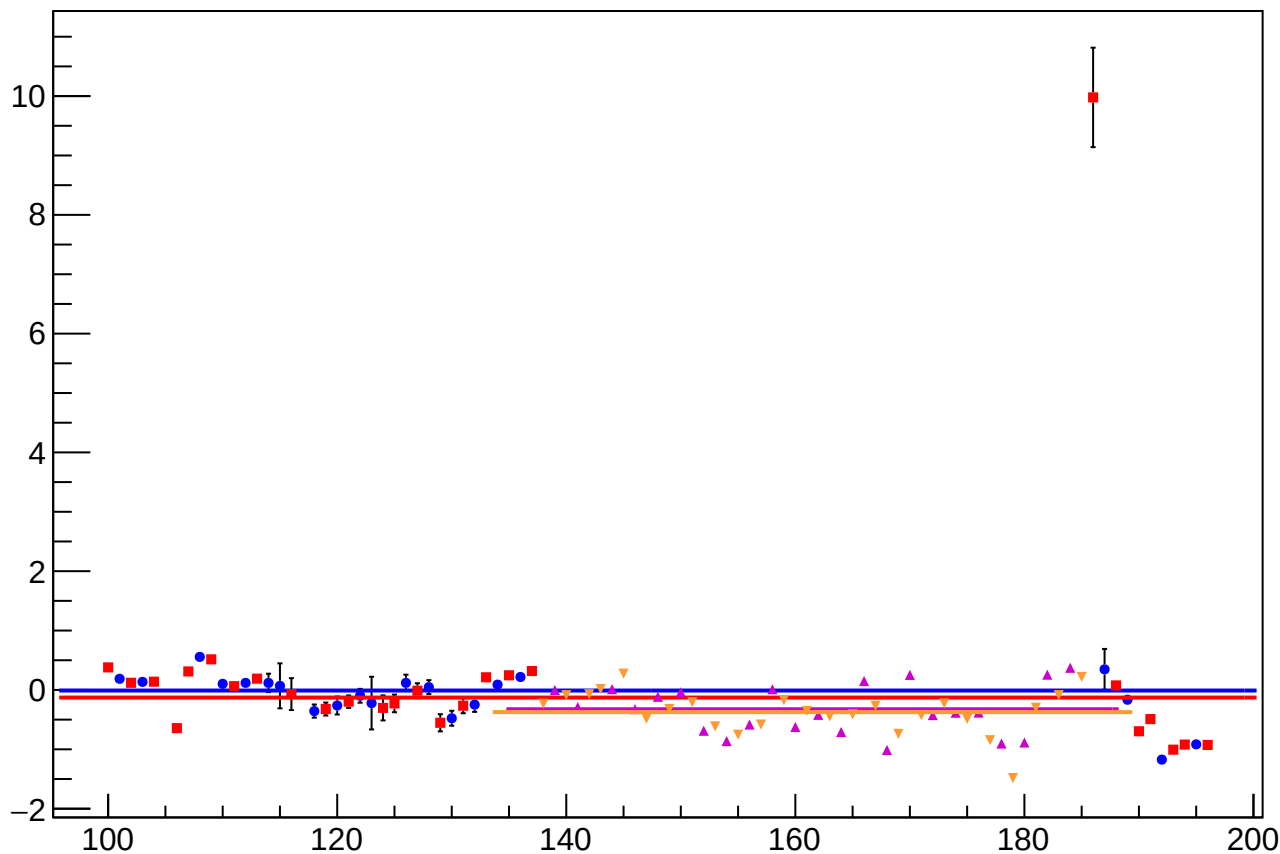
Right: 43.730 $\pm$ 0.195 χ^2 /NDF: 55270.5/46

In: 74.061 $\pm$ 0.156 χ^2 /NDF:41709.8/43

Out: 73.533 $\pm$ 0.148 χ^2 /NDF:49557.1/50

All: 73.784 $\pm$ 0.107 χ^2 /NDF: 91273.0/94

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.013 χ^2/NDF : 1558.4/20

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.129 ± 0.011 χ^2/NDF : 2202.9/25

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

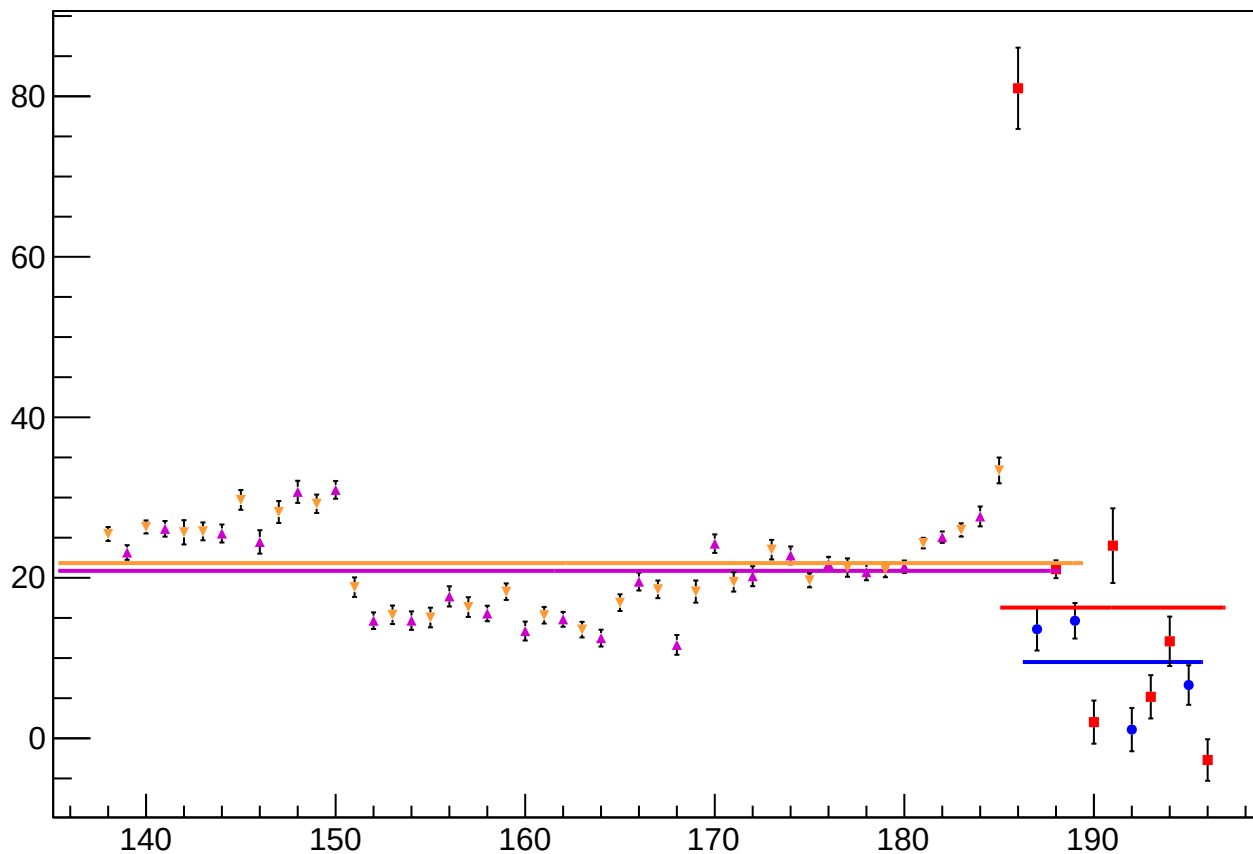
Right: -0.077 ± 0.008 χ^2/NDF : 3811.0/46

In: -0.232 ± 0.007 χ^2/NDF : 4278.3/43

Out: -0.287 ± 0.007 χ^2/NDF : 4189.8/50

All: -0.261 ± 0.005 χ^2/NDF : 8502.3/94

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.506 ± 1.242 $\chi^2/\text{NDF}: 18.9/3$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 16.292 ± 0.836 $\chi^2/\text{NDF}: 285.7/6$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

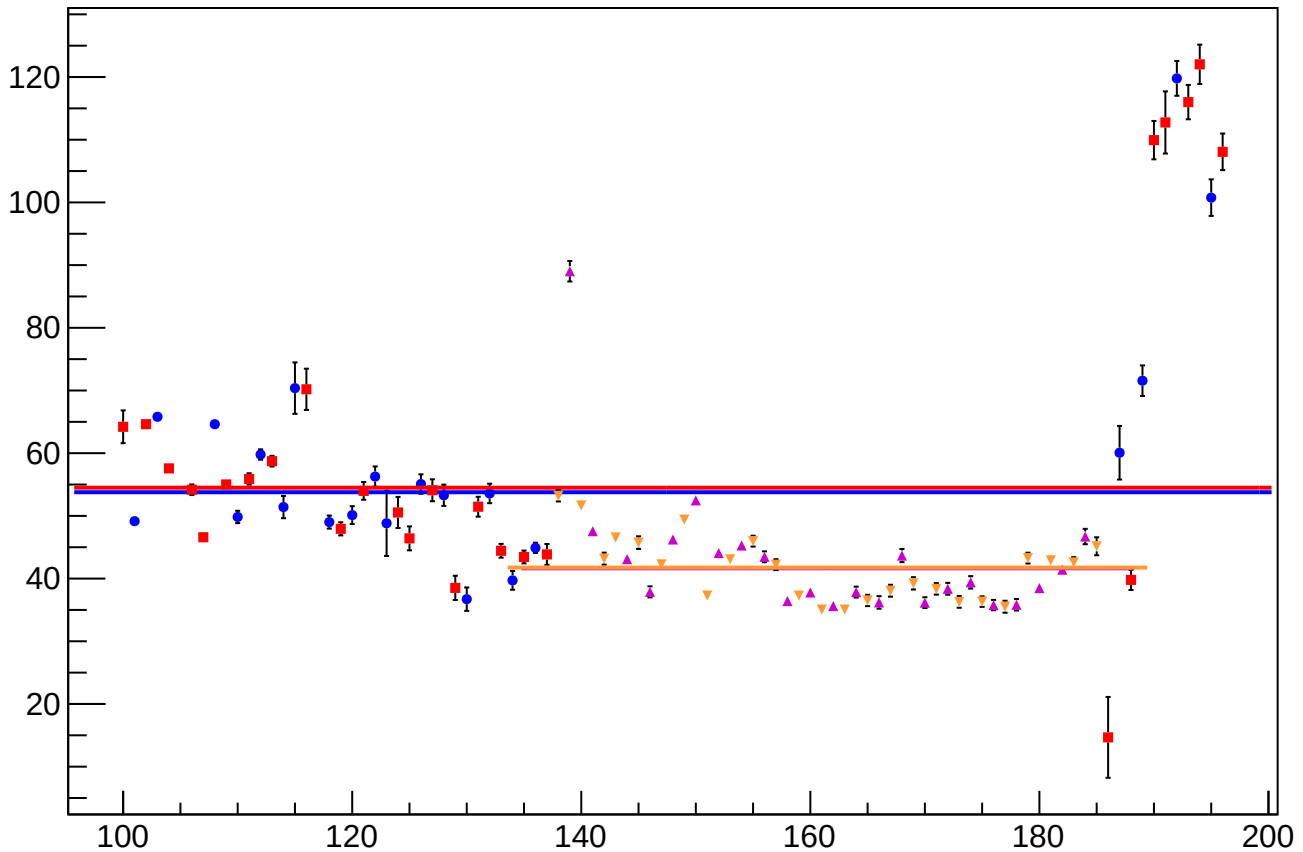
Right: 14.177 ± 0.693 $\chi^2/\text{NDF}: 325.1/10$

In: 20.530 ± 0.213 $\chi^2/\text{NDF}: 676.9/26$

Out: 21.508 ± 0.203 $\chi^2/\text{NDF}: 851.4/31$

All: 21.042 ± 0.147 $\chi^2/\text{NDF}: 1539.3/58$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.771 $\pm$ 0.209 χ^2 /NDF: 2093.5/20

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 54.498 $\pm$ 0.222 χ^2 /NDF: 2796.0/25

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

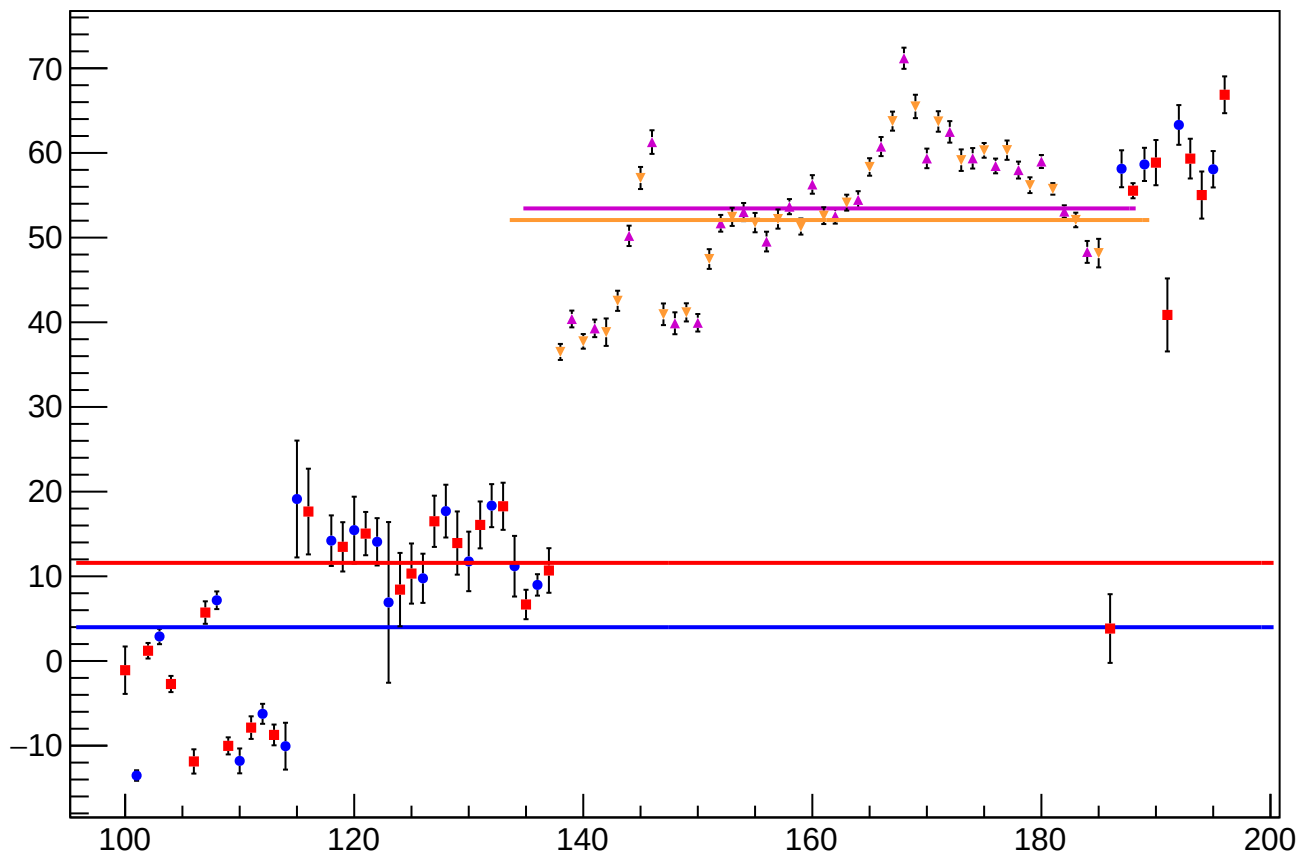
Right: 54.113 $\pm$ 0.152 χ^2 /NDF: 4895.2/46

In: 46.604 $\pm$ 0.134 χ^2 /NDF:5697.0/43

Out: 46.312 $\pm$ 0.133 χ^2 /NDF:5933.9/50

All: 46.457 $\pm$ 0.094 χ^2 /NDF: 11633.4/94

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.989 ± 0.345 $\chi^2/\text{NDF}: 3805.7/20$

Left Out: 52.076 ± 0.210 $\chi^2/\text{NDF}: 1450.9/24$

Right Out: 11.588 ± 0.332 $\chi^2/\text{NDF}: 5719.8/25$

Left In: 53.447 ± 0.215 $\chi^2/\text{NDF}: 1169.0/22$

Left: 52.744 ± 0.150 $\chi^2/\text{NDF}: 2640.6/47$

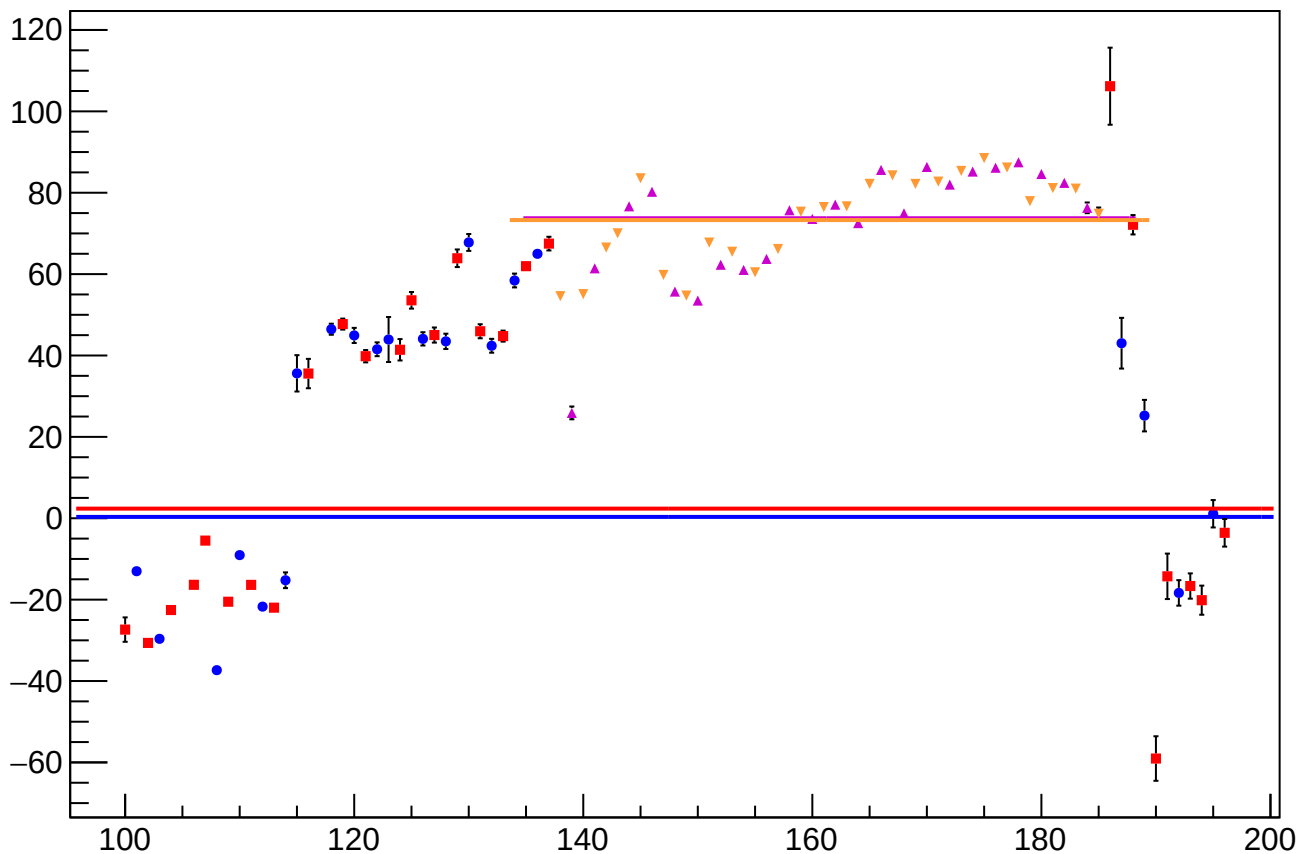
Right: 7.934 ± 0.239 $\chi^2/\text{NDF}: 9777.0/46$

In: 39.594 ± 0.183 $\chi^2/\text{NDF}: 19748.4/43$

Out: 40.518 ± 0.178 $\chi^2/\text{NDF}: 17782.1/50$

All: 40.069 ± 0.127 $\chi^2/\text{NDF}: 37543.6/94$

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.246 χ^2 /NDF: 18343.9/20

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 2.368 $\pm$ 0.262 χ^2 /NDF: 16608.5/25

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

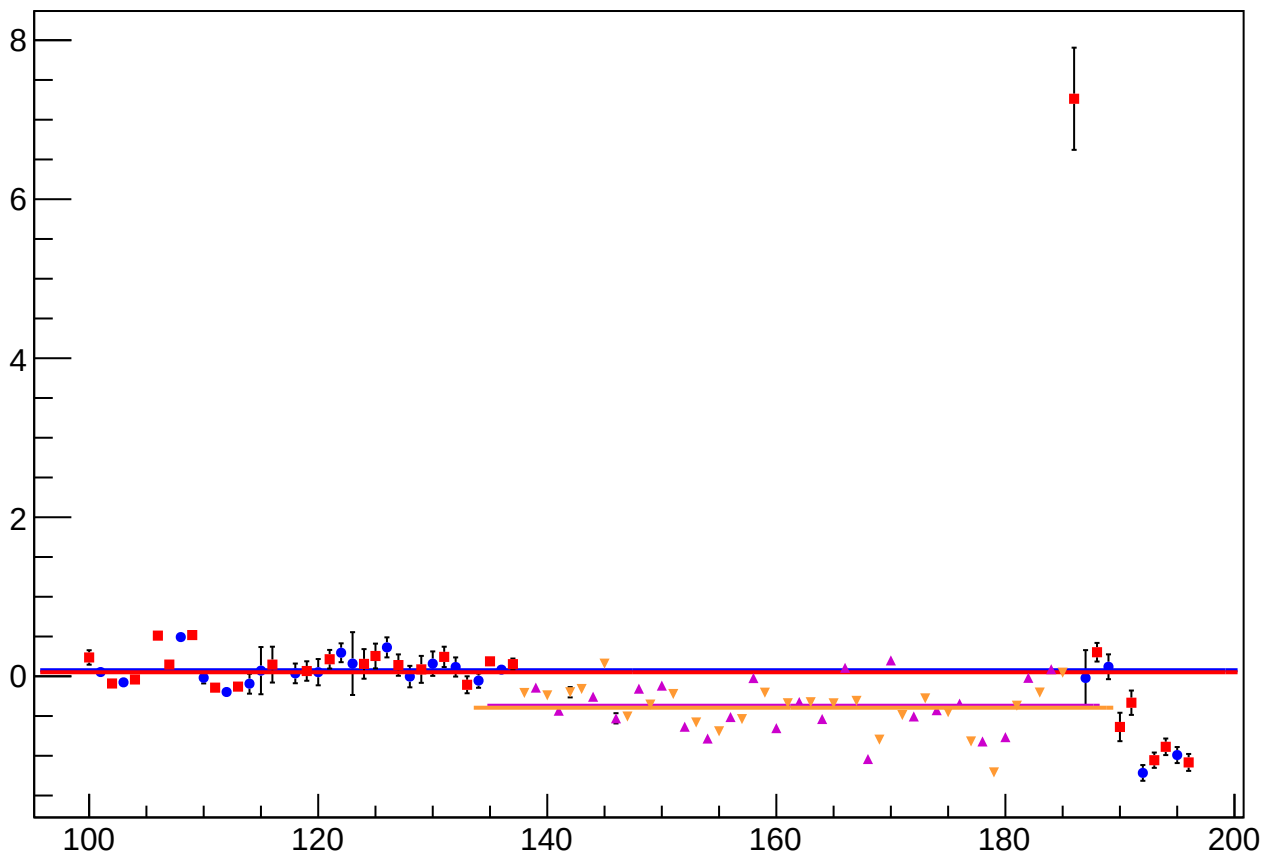
Right: 1.284 $\pm$ 0.179 χ^2 /NDF: 34984.5/46

In: 45.459 $\pm$ 0.152 χ^2 /NDF:77064.3/43

Out: 49.372 $\pm$ 0.152 χ^2 /NDF:68325.9/50

All: 47.419 $\pm$ 0.108 χ^2 /NDF: 145720.3/94

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.076+/-0.011 χ^2/NDF : 689.5/20

Left Out: -0.396+/-0.009 χ^2/NDF : 950.0/24

Right Out: 0.050+/-0.011 χ^2/NDF : 880.4/25

Left In: -0.371+/-0.009 χ^2/NDF : 1313.7/22

Left: -0.383+/-0.006 χ^2/NDF : 2268.0/47

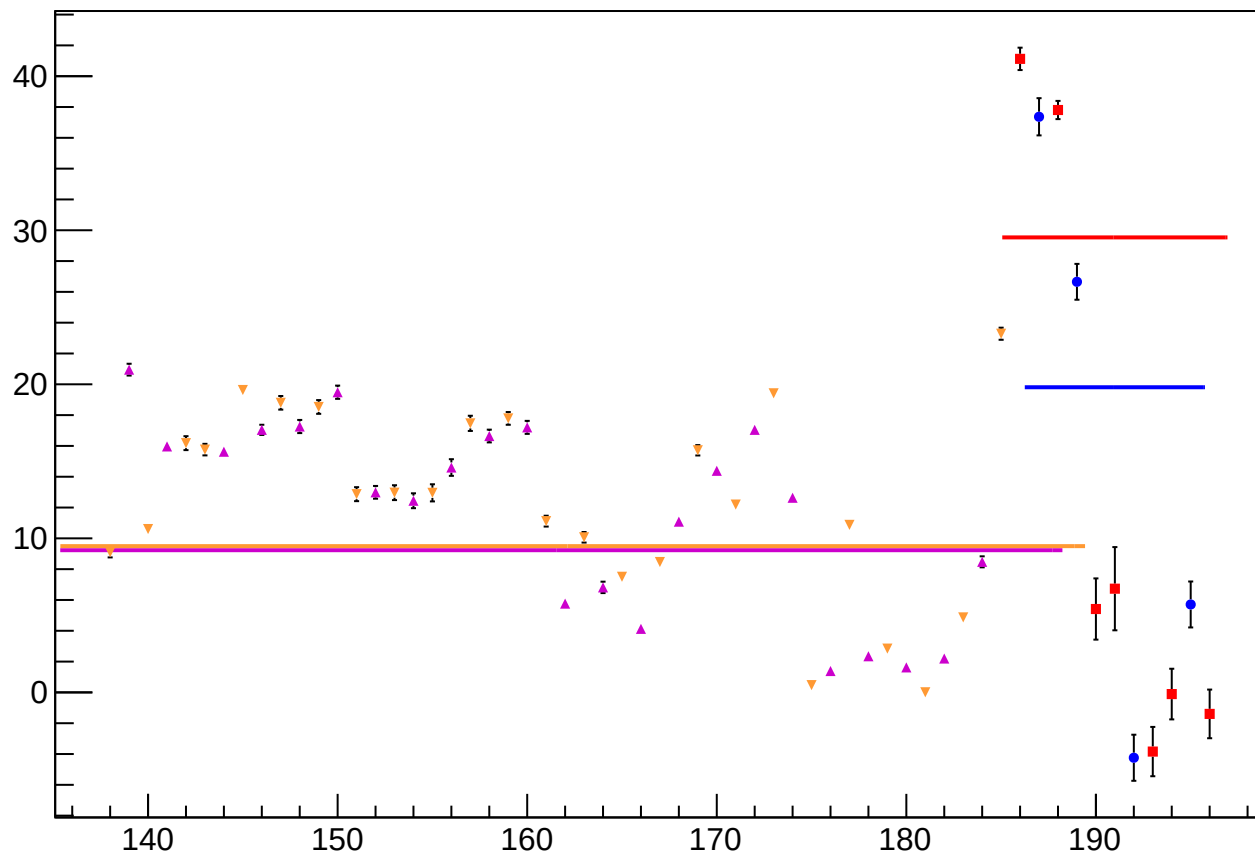
Right: 0.063+/-0.008 χ^2/NDF : 1572.7/46

In: -0.196+/-0.007 χ^2/NDF : 3031.1/43

Out: -0.223+/-0.007 χ^2/NDF : 2886.9/50

All: -0.210+/-0.005 χ^2/NDF : 5925.6/94

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 19.808+/-0.656 χ^2/NDF : 593.8/3

Left Out: 9.495+/-0.061 χ^2/NDF :12609.1/24

Right Out: 29.536+/-0.398 χ^2/NDF : 1812.3/6

Left In: 9.231+/-0.063 χ^2/NDF :10736.2/22

Left: 9.367+/-0.044 χ^2/NDF : 23354.3/47

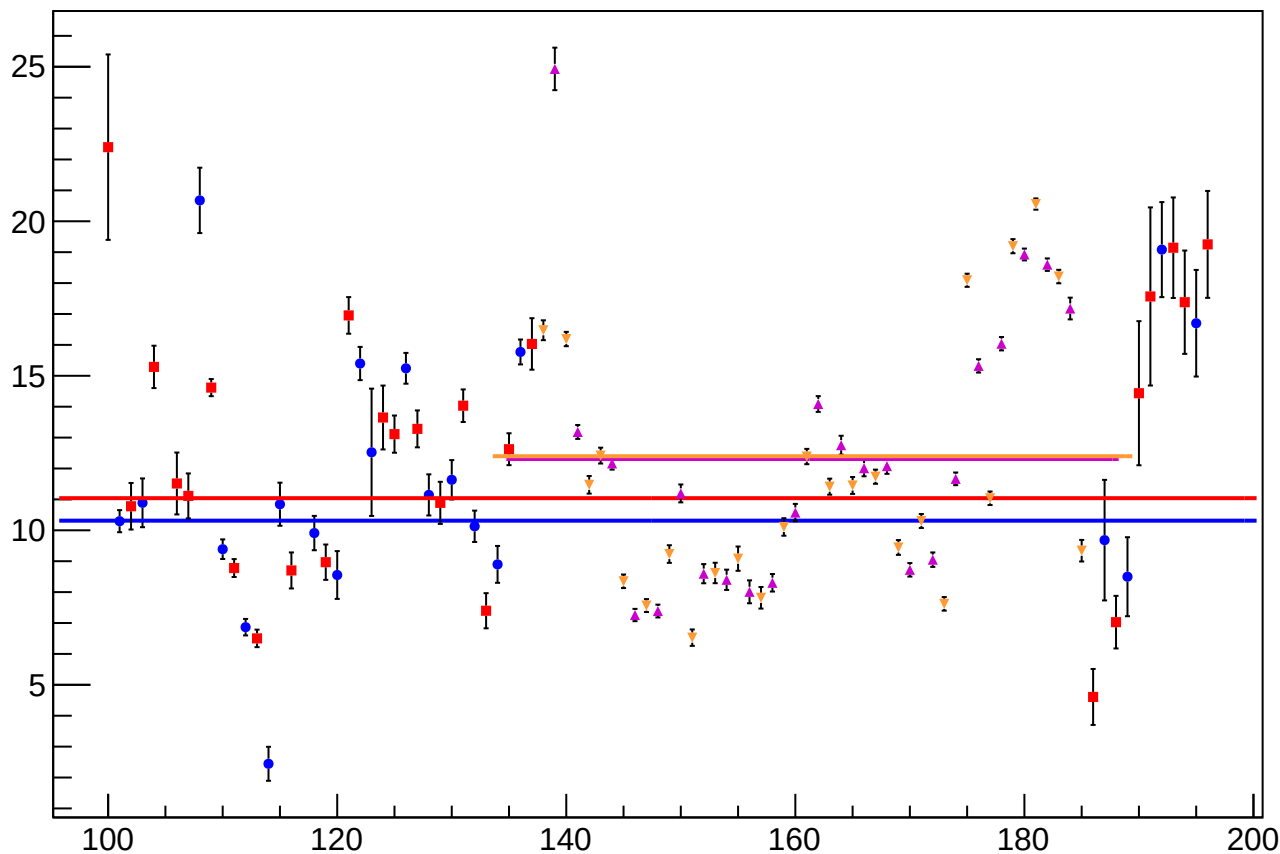
Right: 26.919+/-0.340 χ^2/NDF : 2566.7/10

In: 9.328+/-0.063 χ^2/NDF :11587.2/26

Out: 9.958+/-0.061 χ^2/NDF :16896.6/31

All: 9.654+/-0.044 χ^2/NDF : 28536.1/58

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.312 ± 0.118 $\chi^2/\text{NDF}: 914.8/20$

Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$

Right Out: 11.040 ± 0.113 $\chi^2/\text{NDF}: 958.6/25$

Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$

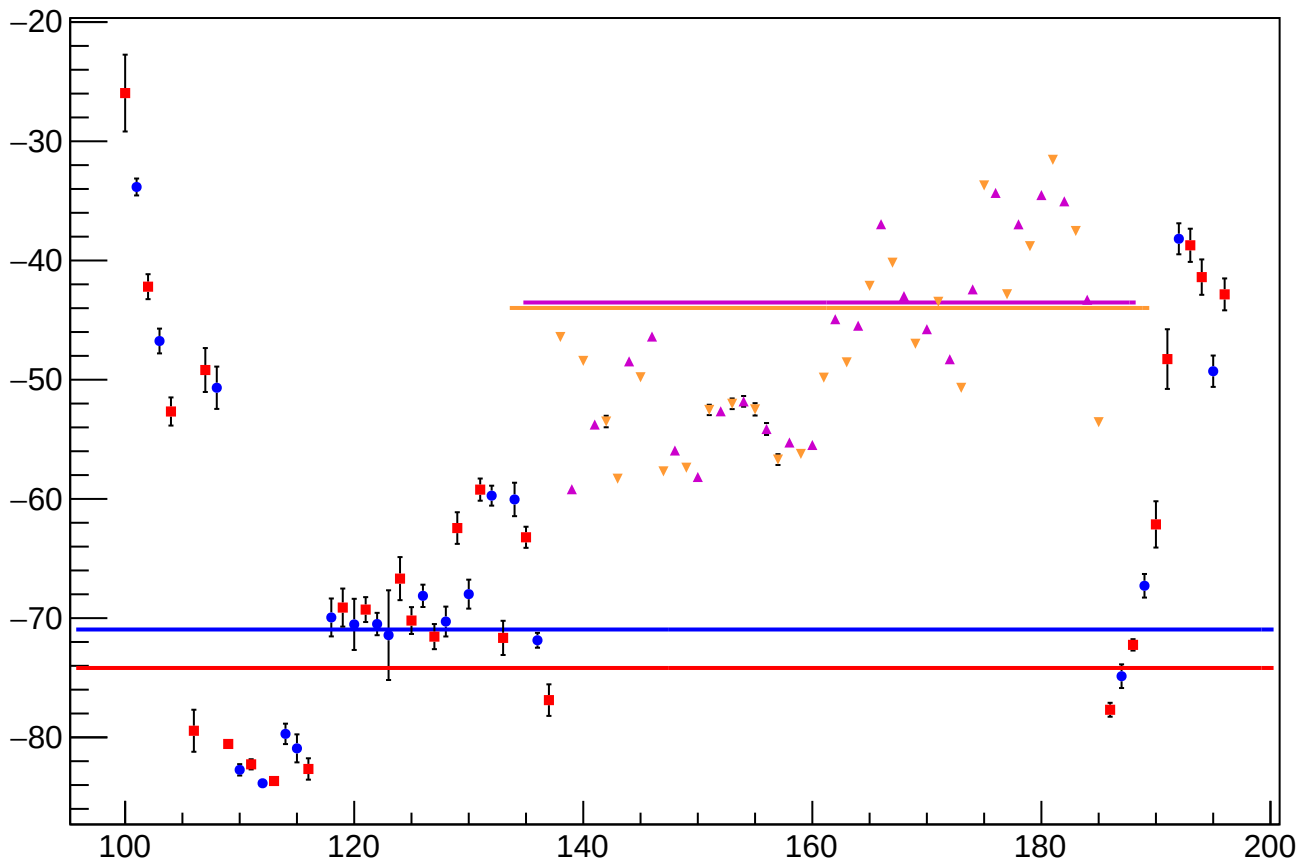
Right: 10.691 ± 0.082 $\chi^2/\text{NDF}: 1893.0/46$

In: 11.992 ± 0.047 $\chi^2/\text{NDF}: 6756.2/43$

Out: 12.179 ± 0.046 $\chi^2/\text{NDF}: 8621.4/50$

All: 12.088 ± 0.033 $\chi^2/\text{NDF}: 15385.7/94$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.953 ± 0.187 χ^2/NDF : 6538.0/20

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -74.180 ± 0.159 χ^2/NDF : 5445.6/25

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

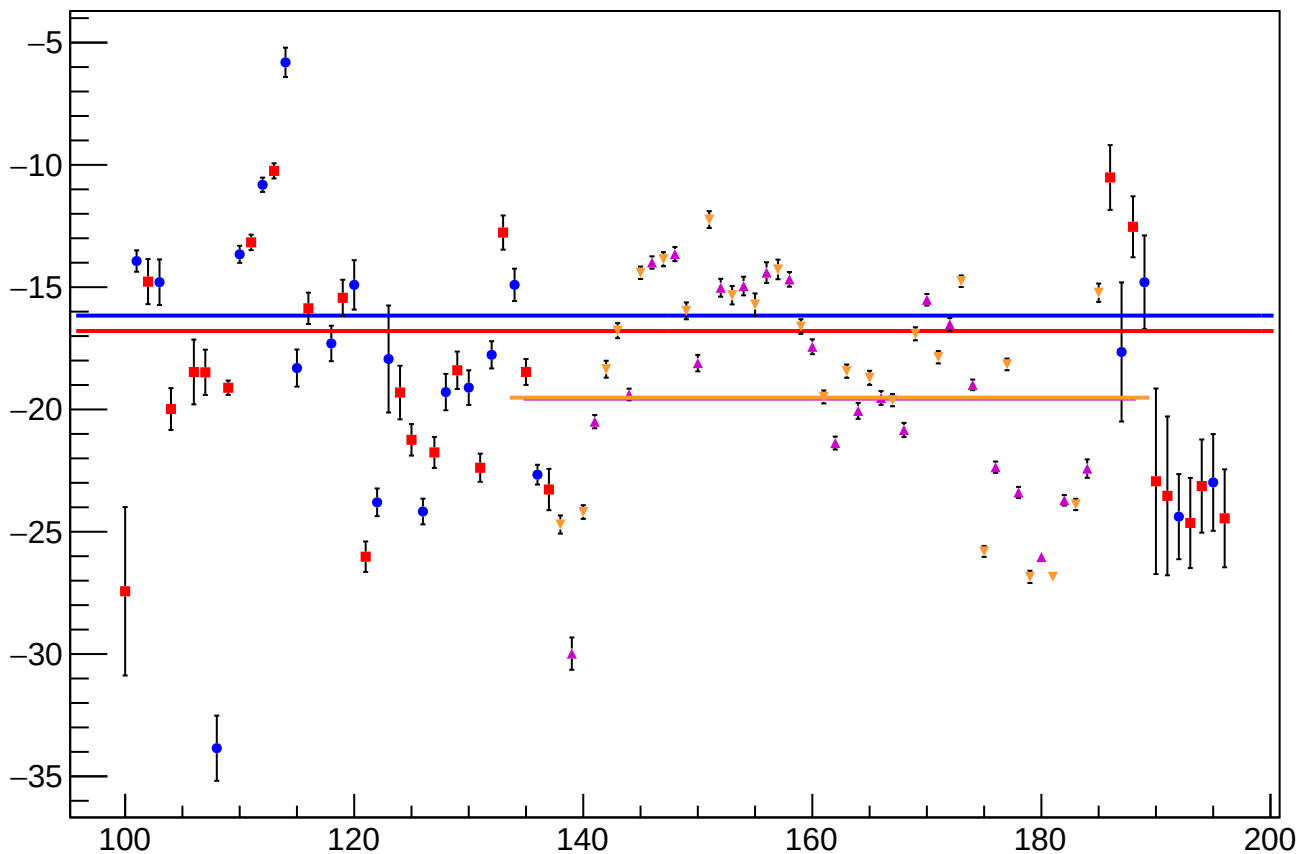
Right: -72.830 ± 0.121 χ^2/NDF : 12156.8/46

In: -46.345 ± 0.060 χ^2/NDF : 41110.0/43

Out: -47.976 ± 0.058 χ^2/NDF : 54627.6/50

All: -47.192 ± 0.042 χ^2/NDF : 96121.7/94

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.163 ± 0.132 $\chi^2/\text{NDF}: 1656.0/20$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.791 ± 0.126 $\chi^2/\text{NDF}: 1296.1/25$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

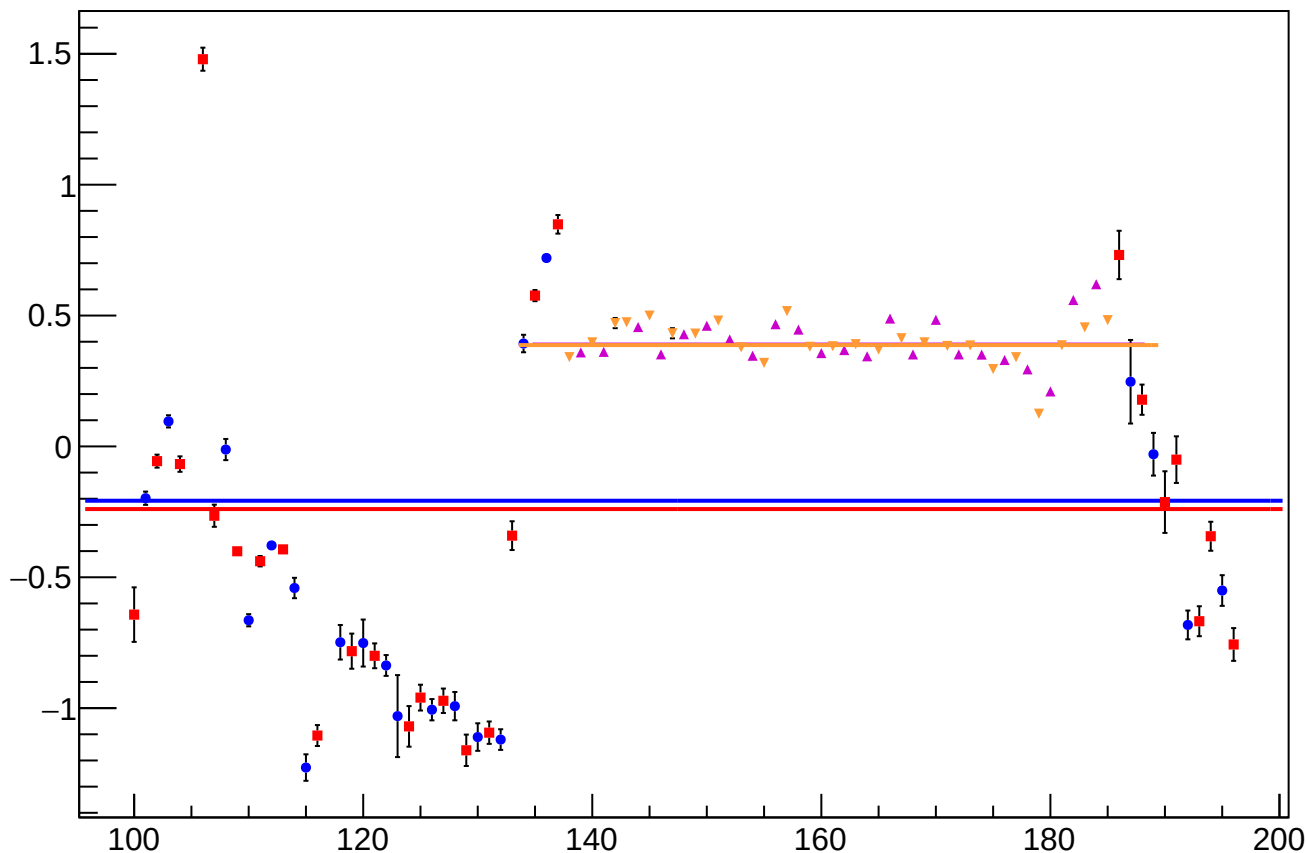
Right: -16.491 ± 0.091 $\chi^2/\text{NDF}: 2964.0/46$

In: -19.014 ± 0.053 $\chi^2/\text{NDF}: 6525.0/43$

Out: -19.071 ± 0.051 $\chi^2/\text{NDF}: 8205.4/50$

All: -19.044 ± 0.037 $\chi^2/\text{NDF}: 14731.0/94$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.208 ± 0.007 χ^2/NDF : 6440.6/20

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.239 ± 0.007 χ^2/NDF : 6472.0/25

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

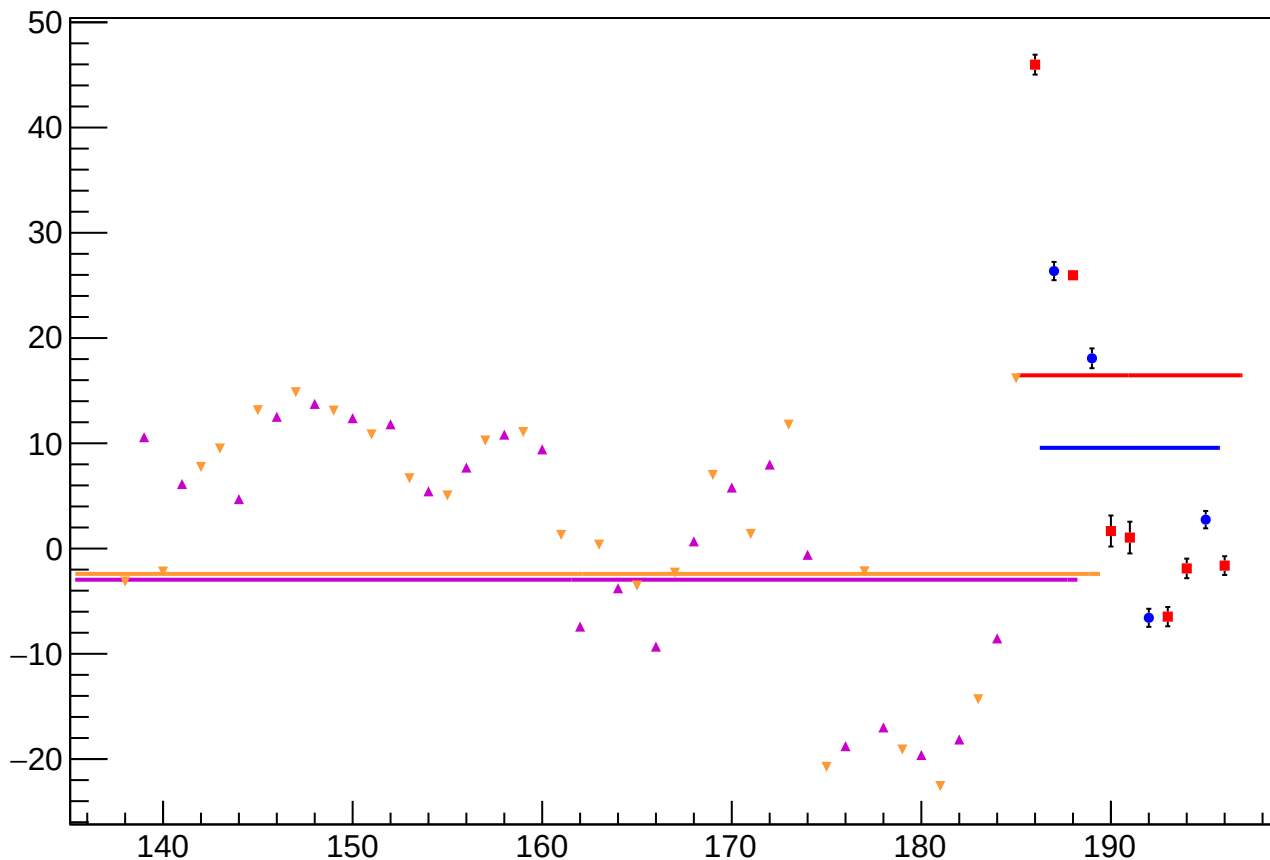
Right: -0.225 ± 0.005 χ^2/NDF : 12922.5/46

In: 0.322 ± 0.002 χ^2/NDF : 13492.0/43

Out: 0.312 ± 0.002 χ^2/NDF : 14675.6/50

All: 0.317 ± 0.002 χ^2/NDF : 28177.3/94

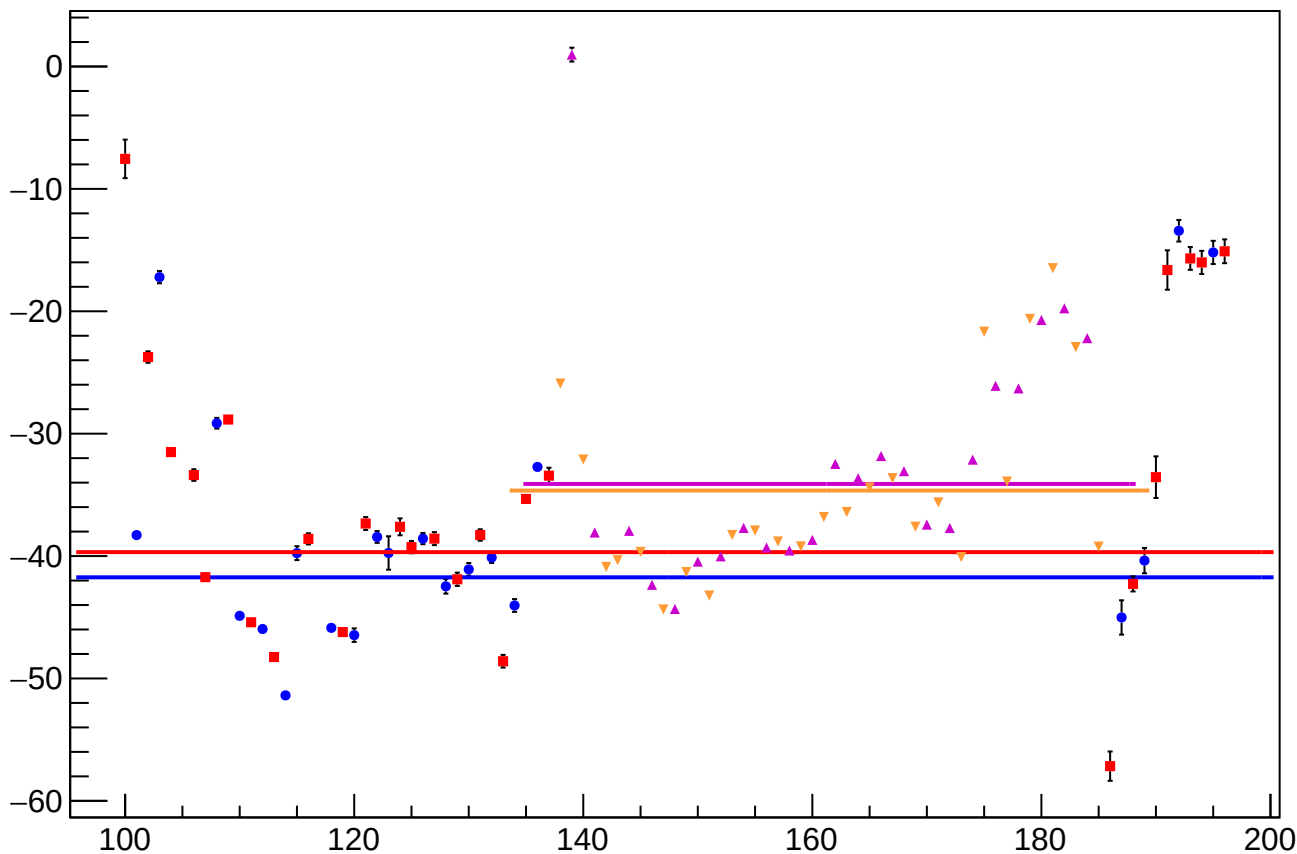
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.570 ± 0.435 $\chi^2/\text{NDF}: 878.4/3$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 16.458 ± 0.300 $\chi^2/\text{NDF}: 3096.1/6$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 14.234 ± 0.247 $\chi^2/\text{NDF}: 4144.2/10$
 In: -2.763 ± 0.054 $\chi^2/\text{NDF}: 47617.6/26$
 Out: -1.842 ± 0.052 $\chi^2/\text{NDF}: 63291.9/31$
 All: -2.281 ± 0.038 $\chi^2/\text{NDF}: 111059.3/58$

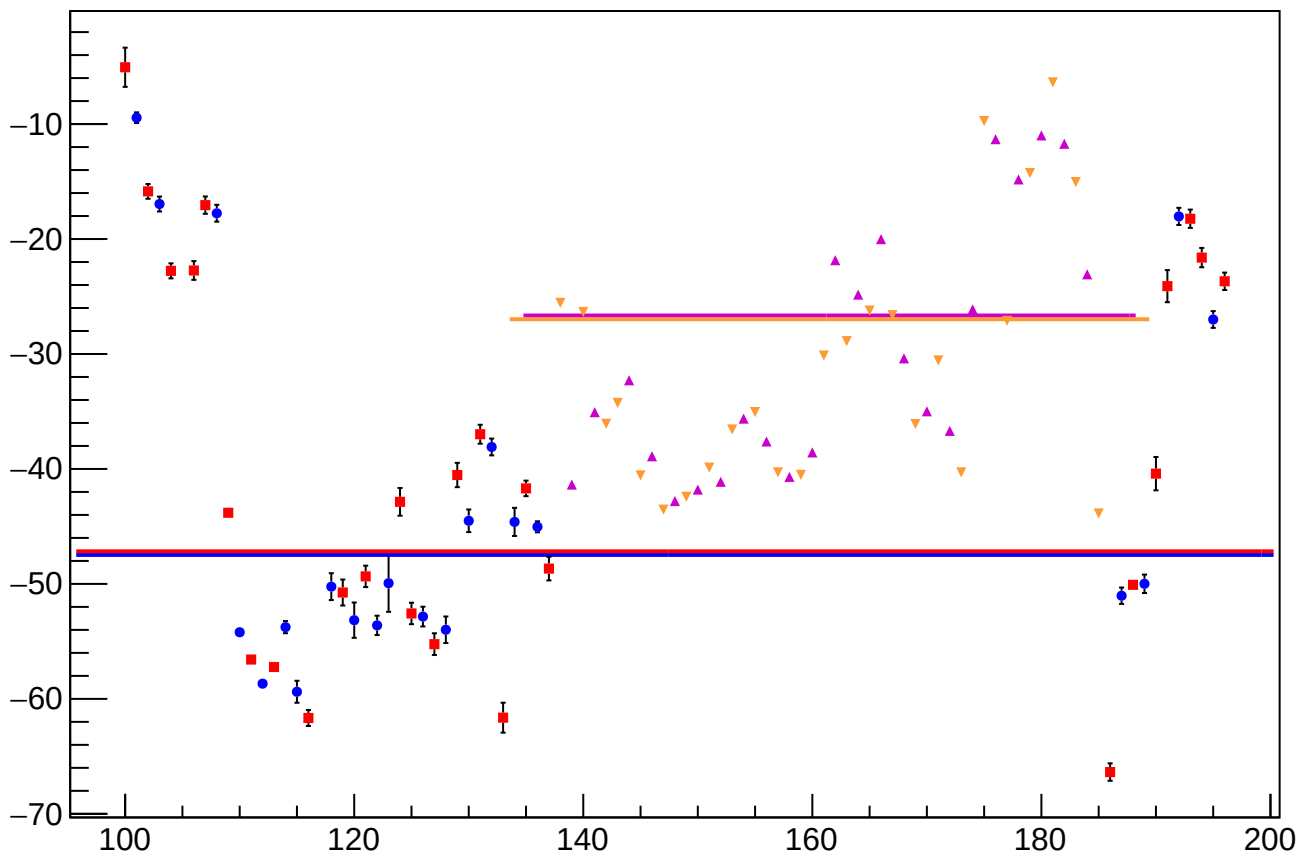
reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.736 ± 0.077 $\chi^2/\text{NDF}: 8398.3/20$
 Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$
 Right Out: -39.680 ± 0.071 $\chi^2/\text{NDF}: 13725.3/25$
 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: -40.627 ± 0.052 $\chi^2/\text{NDF}: 22505.6/46$
 In: -35.974 ± 0.038 $\chi^2/\text{NDF}: 44813.7/43$
 Out: -35.929 ± 0.036 $\chi^2/\text{NDF}: 52100.9/50$
 All: -35.950 ± 0.026 $\chi^2/\text{NDF}: 96915.3/94$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -47.476 ± 0.118 $\chi^2/\text{NDF}: 17137.7/20$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -47.166 ± 0.099 $\chi^2/\text{NDF}: 16018.5/25$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

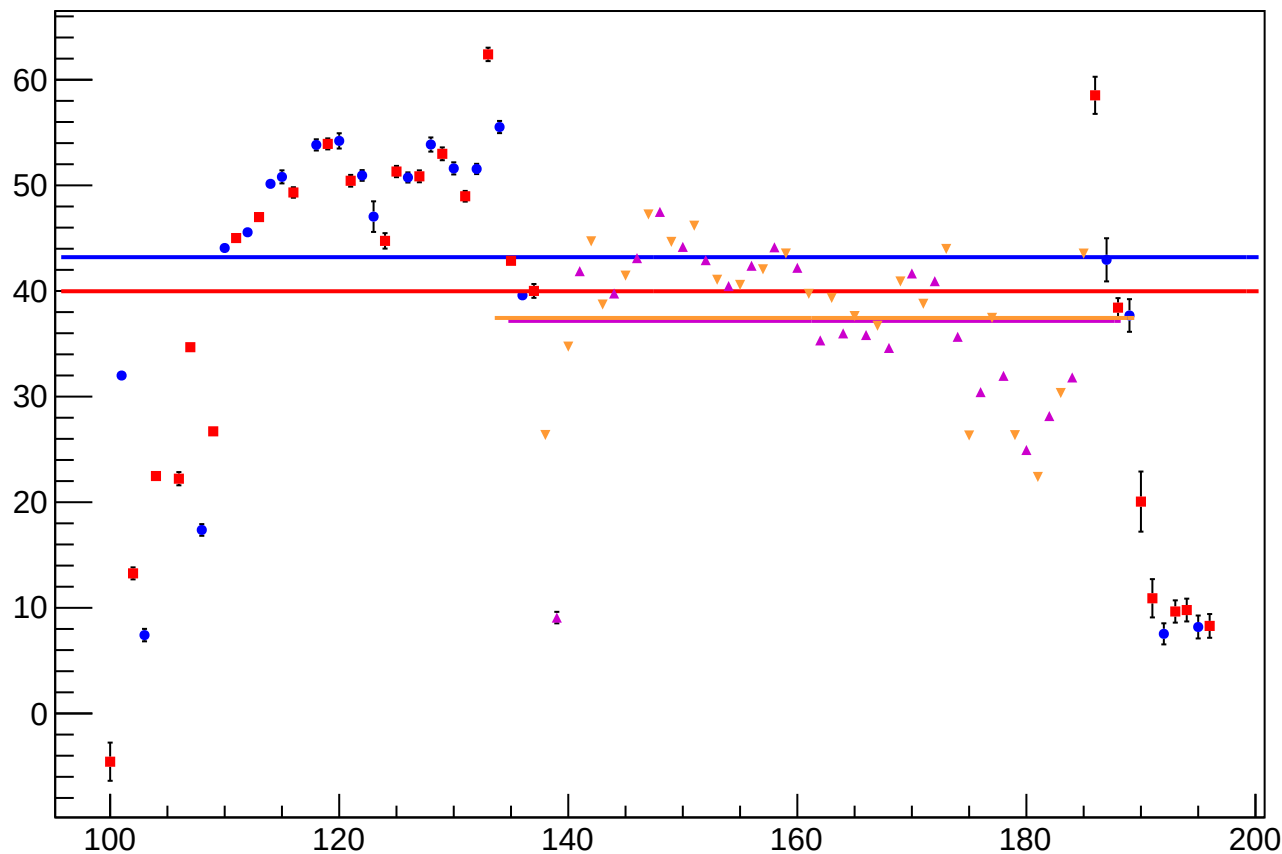
Right: -47.293 ± 0.076 $\chi^2/\text{NDF}: 33160.2/46$

In: -30.344 ± 0.050 $\chi^2/\text{NDF}: 84703.8/43$

Out: -31.523 ± 0.047 $\chi^2/\text{NDF}: 97817.6/50$

All: -30.970 ± 0.034 $\chi^2/\text{NDF}: 182818.9/94$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.202 $\pm$ 0.086 χ^2 /NDF: 12927.2/20

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 39.975 $\pm$ 0.079 χ^2 /NDF: 20447.7/25

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

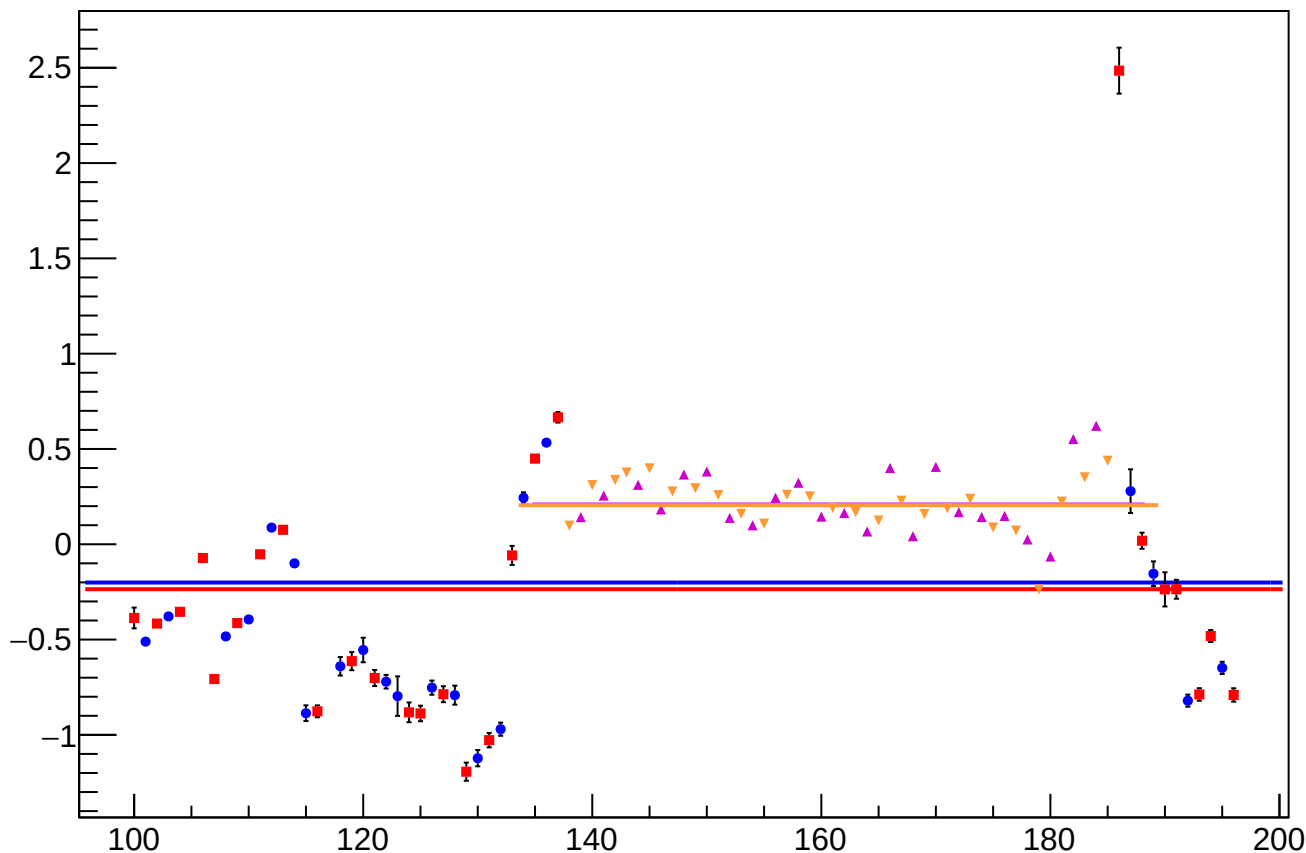
Right: 41.450 $\pm$ 0.058 χ^2 /NDF: 34135.9/46

In: 38.655 $\pm$ 0.043 χ^2 /NDF: 33855.7/43

Out: 38.110 $\pm$ 0.041 χ^2 /NDF: 42772.1/50

All: 38.367 $\pm$ 0.029 χ^2 /NDF: 76713.3/94

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.201 ± 0.005 χ^2/NDF : 7975.0/20

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.236 ± 0.004 χ^2/NDF : 8572.7/25

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

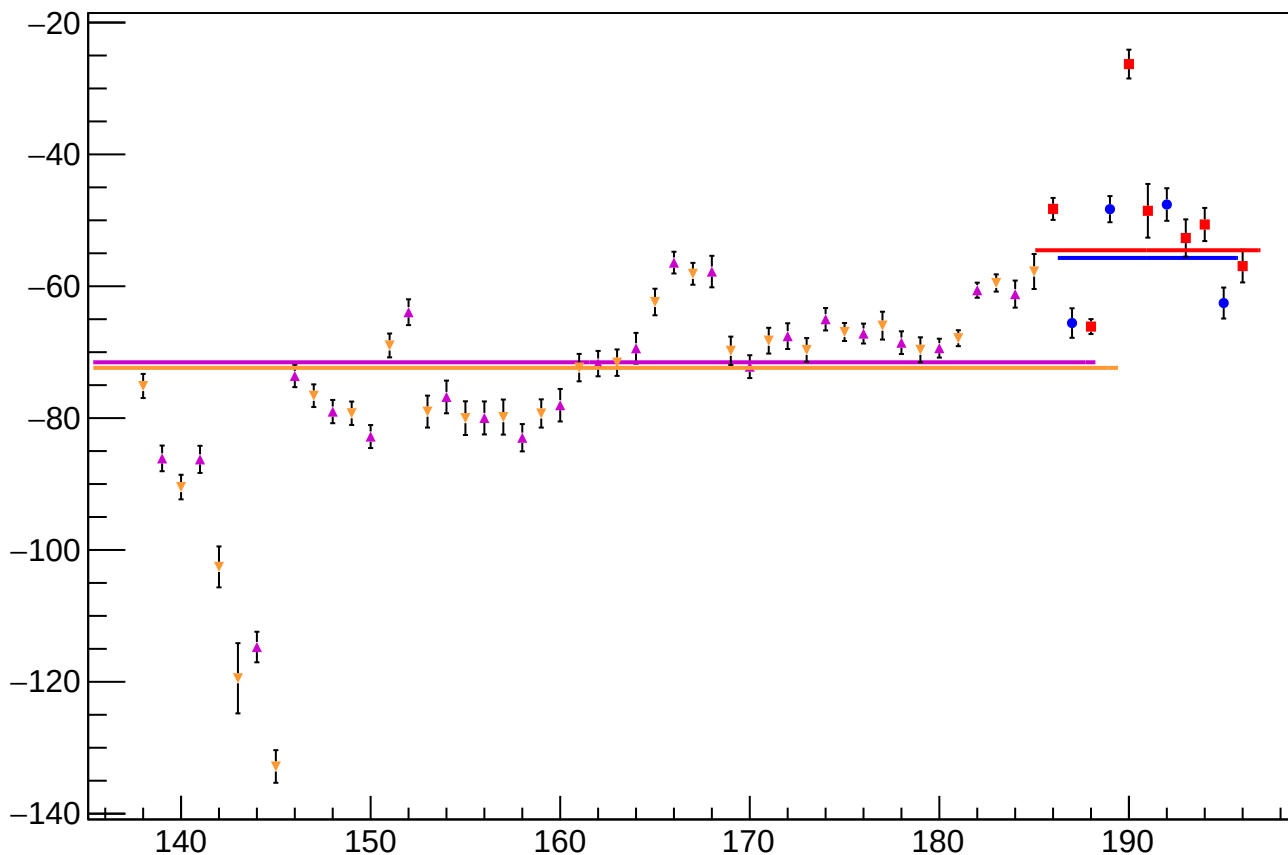
Right: -0.221 ± 0.003 χ^2/NDF : 16578.6/46

In: 0.133 ± 0.002 χ^2/NDF : 19195.1/43

Out: 0.110 ± 0.002 χ^2/NDF : 21232.3/50

All: 0.121 ± 0.001 χ^2/NDF : 40492.8/94

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



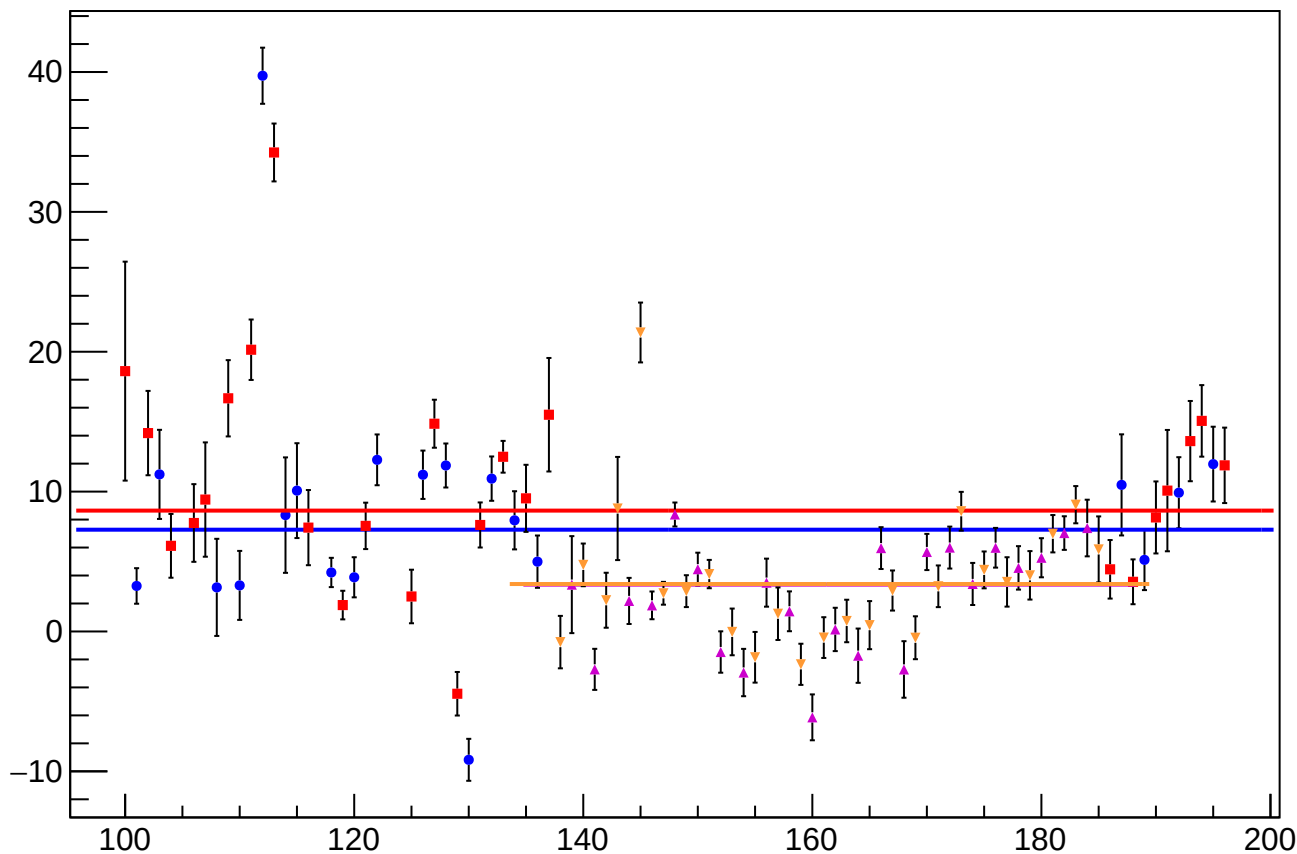
Right In: -55.704 ± 1.119 $\chi^2/\text{NDF}: 52.6/3$
 Left Out: -72.381 ± 0.382 $\chi^2/\text{NDF}: 1199.9/24$
 Right Out: -54.540 ± 0.735 $\chi^2/\text{NDF}: 291.1/6$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.957 ± 0.270 $\chi^2/\text{NDF}: 2053.7/47$
 Right: -54.891 ± 0.614 $\chi^2/\text{NDF}: 344.5/10$

In: -69.884 ± 0.361 $\chi^2/\text{NDF}: 1083.3/26$
 Out: -68.586 ± 0.339 $\chi^2/\text{NDF}: 1955.3/31$

All: -69.194 ± 0.247 $\chi^2/\text{NDF}: 3045.4/58$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.277 ± 0.417 $\chi^2/\text{NDF}: 446.5/19$

Left Out: 3.392 ± 0.294 $\chi^2/\text{NDF}: 169.9/24$

Right Out: 8.642 ± 0.402 $\chi^2/\text{NDF}: 374.8/24$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.371 ± 0.209 $\chi^2/\text{NDF}: 333.4/47$

Right: 7.985 ± 0.289 $\chi^2/\text{NDF}: 826.9/44$

In: 4.677 ± 0.243 $\chi^2/\text{NDF}: 668.7/42$

Out: 5.223 ± 0.237 $\chi^2/\text{NDF}: 656.0/49$

All: 4.956 ± 0.170 $\chi^2/\text{NDF}: 1327.3/92$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.942+/-0.633 χ^2/NDF : 4134.9/19

Left Out: 13.700+/-0.381 χ^2/NDF :1307.0/24

Right Out: 17.684+/-0.499 χ^2/NDF : 7026.1/24

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.378+/-0.269 χ^2/NDF : 2333.1/47

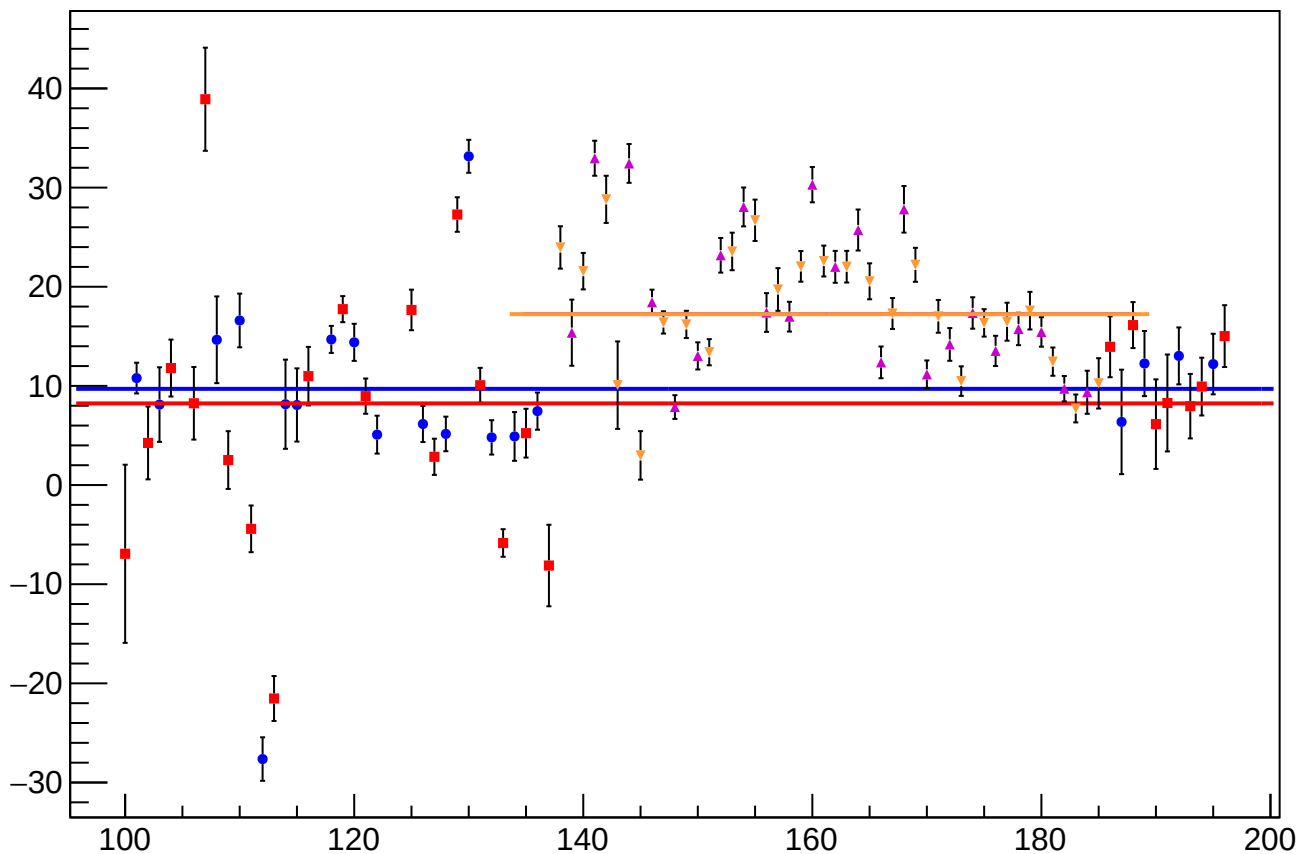
Right: 22.762+/-0.392 χ^2/NDF : 11431.9/44

In: 17.793+/-0.326 χ^2/NDF :5746.9/42

Out: 15.168+/-0.303 χ^2/NDF :8373.4/49

All: 16.385+/-0.222 χ^2/NDF : 14155.2/92

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.702 ± 0.486 $\chi^2/\text{NDF}: 550.4/19$

Left Out: 17.238 ± 0.336 $\chi^2/\text{NDF}: 246.5/24$

Right Out: 8.235 ± 0.474 $\chi^2/\text{NDF}: 589.4/24$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.241 ± 0.239 $\chi^2/\text{NDF}: 687.3/47$

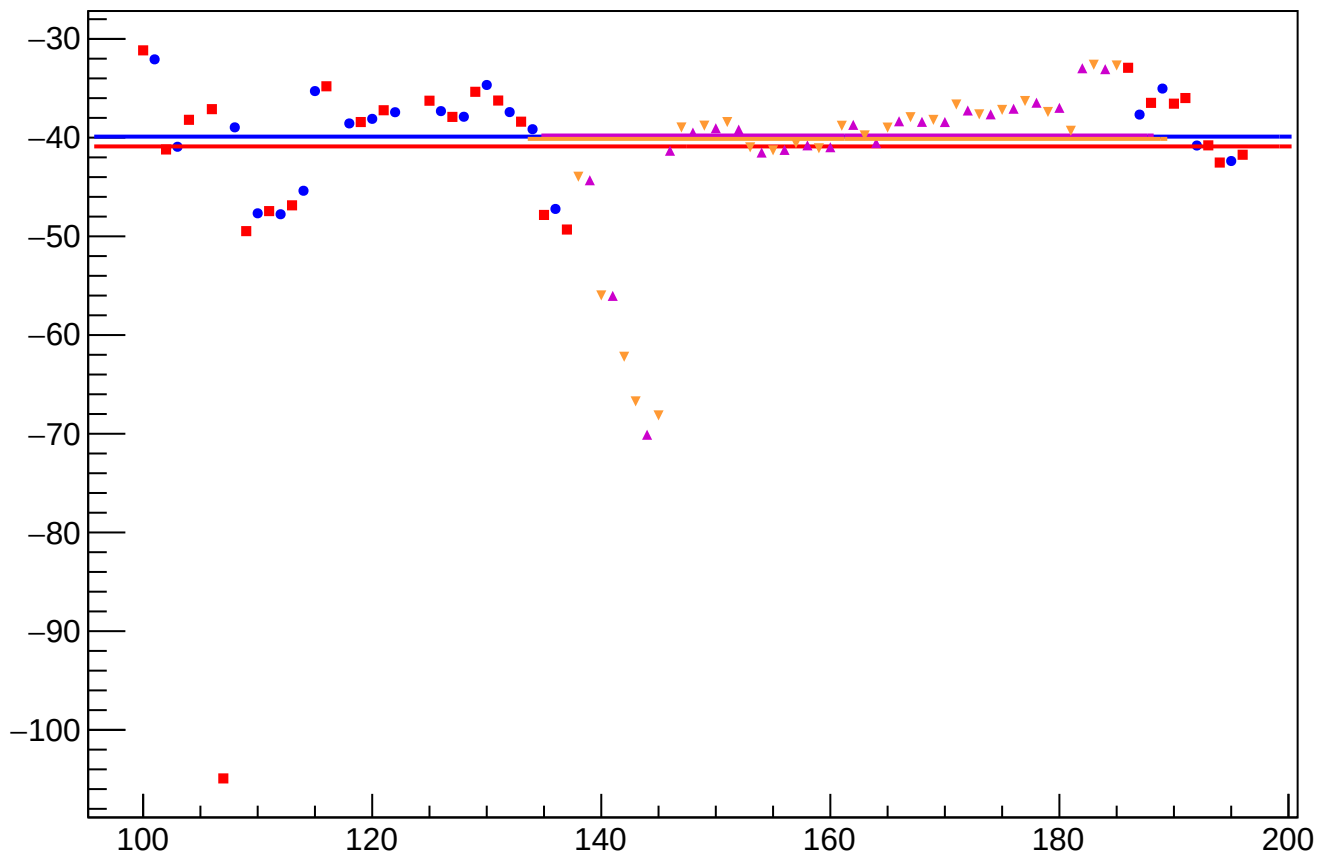
Right: 8.950 ± 0.339 $\chi^2/\text{NDF}: 1144.5/44$

In: 14.771 ± 0.278 $\chi^2/\text{NDF}: 1153.2/42$

Out: 14.224 ± 0.274 $\chi^2/\text{NDF}: 1076.1/49$

All: 14.493 ± 0.195 $\chi^2/\text{NDF}: 2231.3/92$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.897 ± 0.027 χ^2/NDF : 28387.3/19

Left Out: -40.126 ± 0.016 χ^2/NDF : 185897.0/24

Right Out: -40.891 ± 0.025 χ^2/NDF : 100928.5/24

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.955 ± 0.011 χ^2/NDF : 330628.3/47

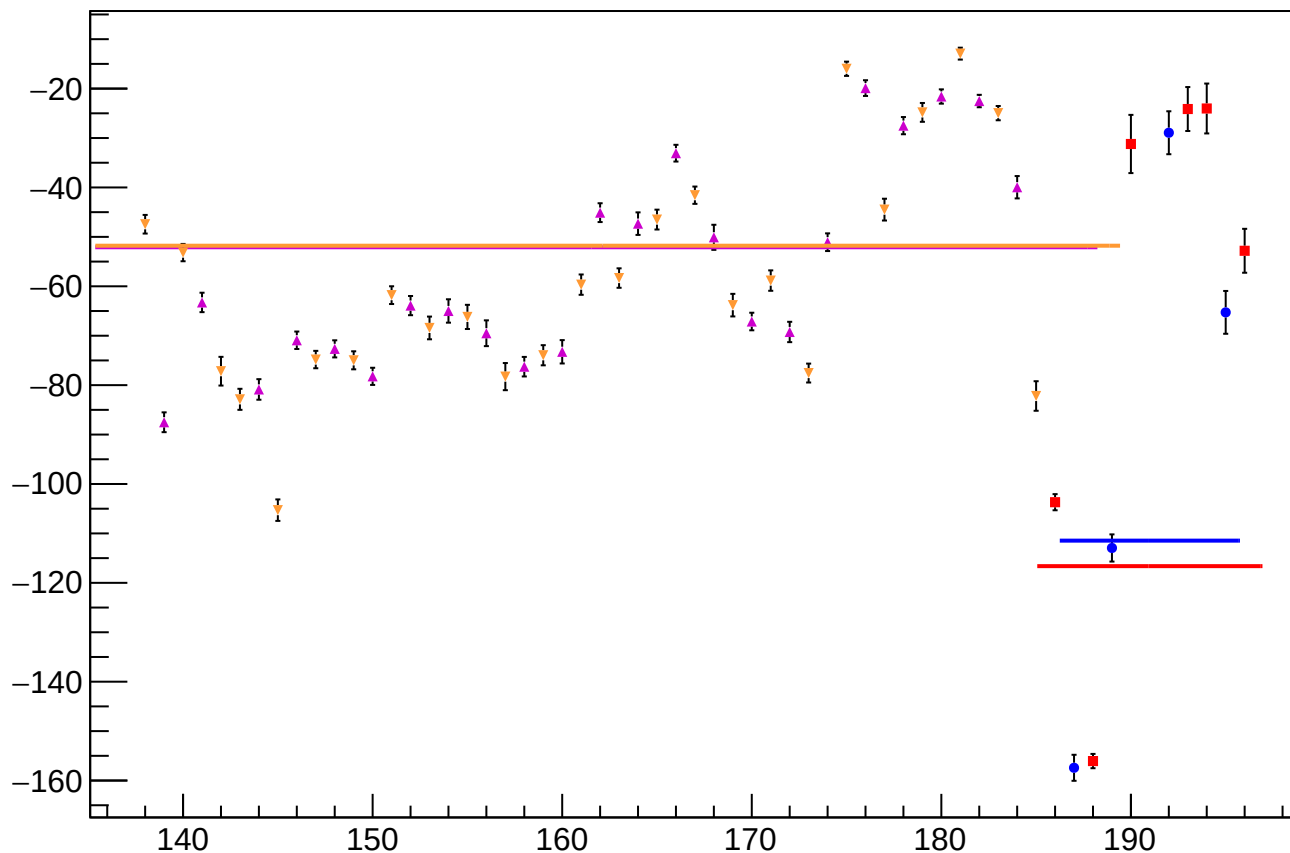
Right: -40.437 ± 0.018 χ^2/NDF : 130033.0/44

In: -39.812 ± 0.014 χ^2/NDF : 172894.5/42

Out: -40.341 ± 0.013 χ^2/NDF : 287493.7/49

All: -40.082 ± 0.010 χ^2/NDF : 461162.1/92

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -111.460 ± 1.616 χ^2/NDF : 779.8/3

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -116.622 ± 0.988 χ^2/NDF : 1993.2/5

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

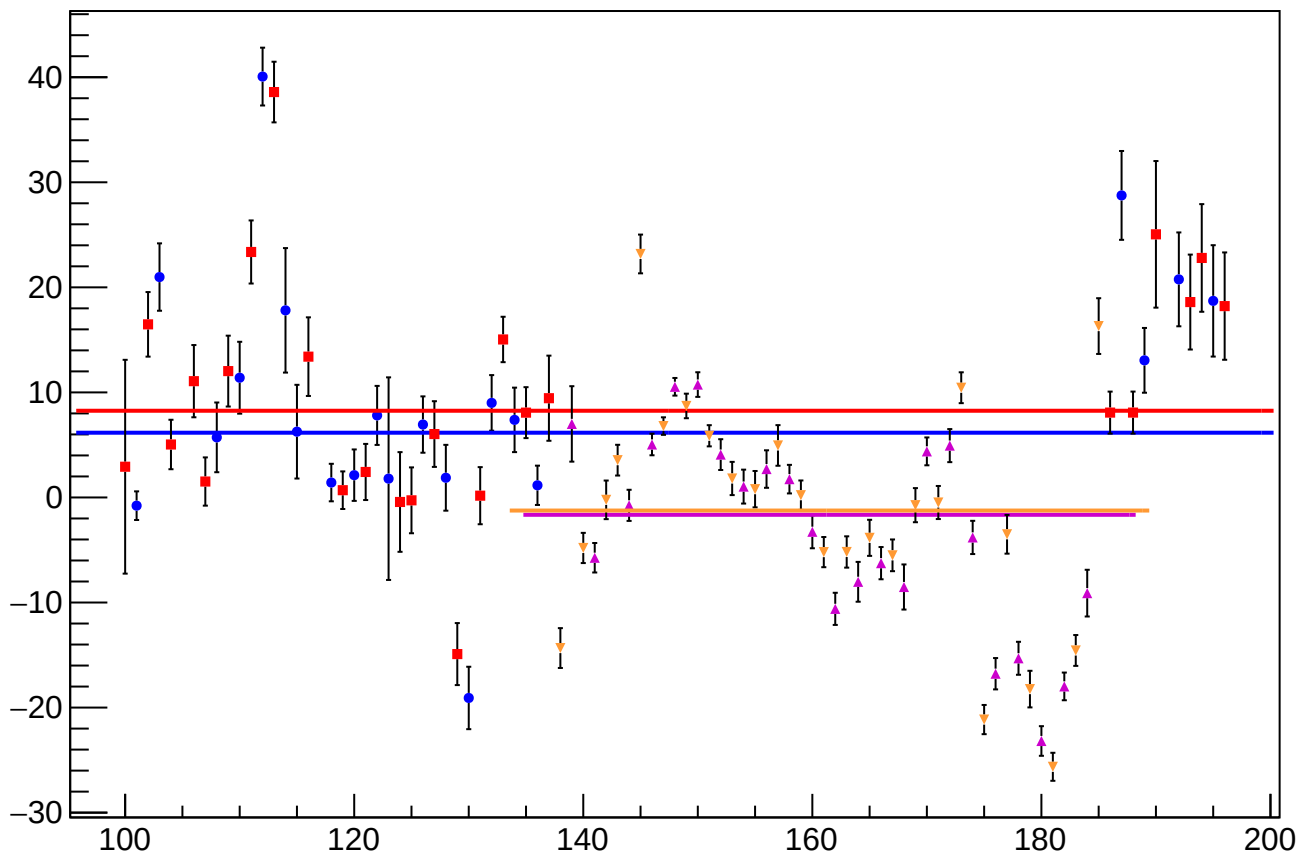
Right: -115.217 ± 0.843 χ^2/NDF : 2780.3/9

In: -55.350 ± 0.378 χ^2/NDF : 5335.3/26

Out: -60.236 ± 0.357 χ^2/NDF : 9899.6/30

All: -57.933 ± 0.259 χ^2/NDF : 15323.4/57

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.163 ± 0.600 $\chi^2/\text{NDF}: 348.1/20$
 Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$
 Right Out: 8.254 ± 0.577 $\chi^2/\text{NDF}: 294.7/24$
 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: 7.249 ± 0.416 $\chi^2/\text{NDF}: 649.1/45$
 In: -0.086 ± 0.268 $\chi^2/\text{NDF}: 1575.9/43$
 Out: 0.689 ± 0.260 $\chi^2/\text{NDF}: 1833.2/49$

All: 0.313 ± 0.187 $\chi^2/\text{NDF}: 3413.4/93$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 162.887 ± 0.877 $\chi^2/\text{NDF}: 3441.5/20$

Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$

Right Out: 172.734 ± 0.664 $\chi^2/\text{NDF}: 4342.1/24$

Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$

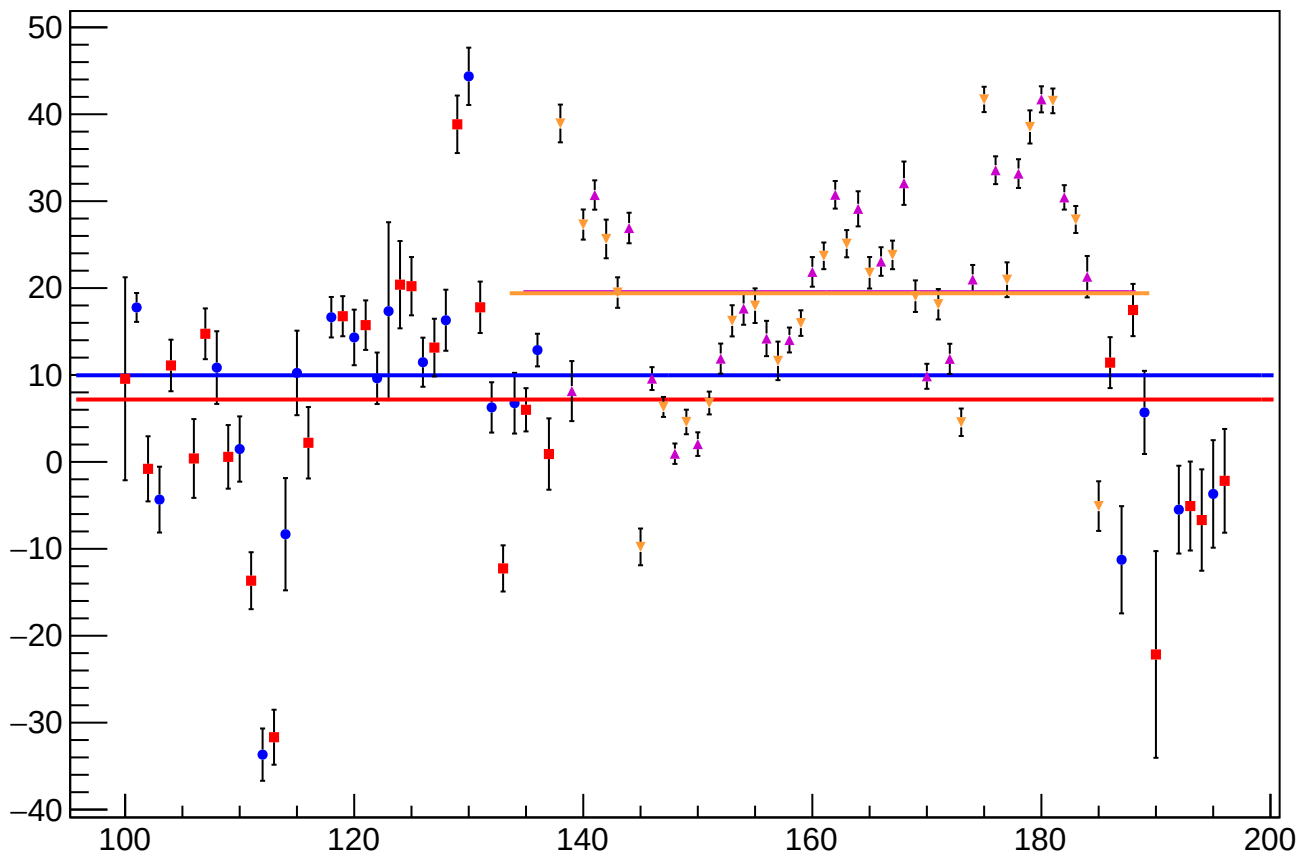
Right: 169.146 ± 0.529 $\chi^2/\text{NDF}: 7863.7/45$

In: 118.724 ± 0.353 $\chi^2/\text{NDF}: 10170.5/43$

Out: 125.761 ± 0.331 $\chi^2/\text{NDF}: 15596.2/49$

All: 122.470 ± 0.242 $\chi^2/\text{NDF}: 25977.9/93$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.966±0.697 χ^2/NDF : 414.7/20

Left Out: 19.405±0.335 χ^2/NDF :1453.4/24

Right Out: 7.178±0.688 χ^2/NDF : 457.2/24

Left In: 19.530±0.342 χ^2/NDF :1181.3/22

Left: 19.466±0.239 χ^2/NDF : 2634.8/47

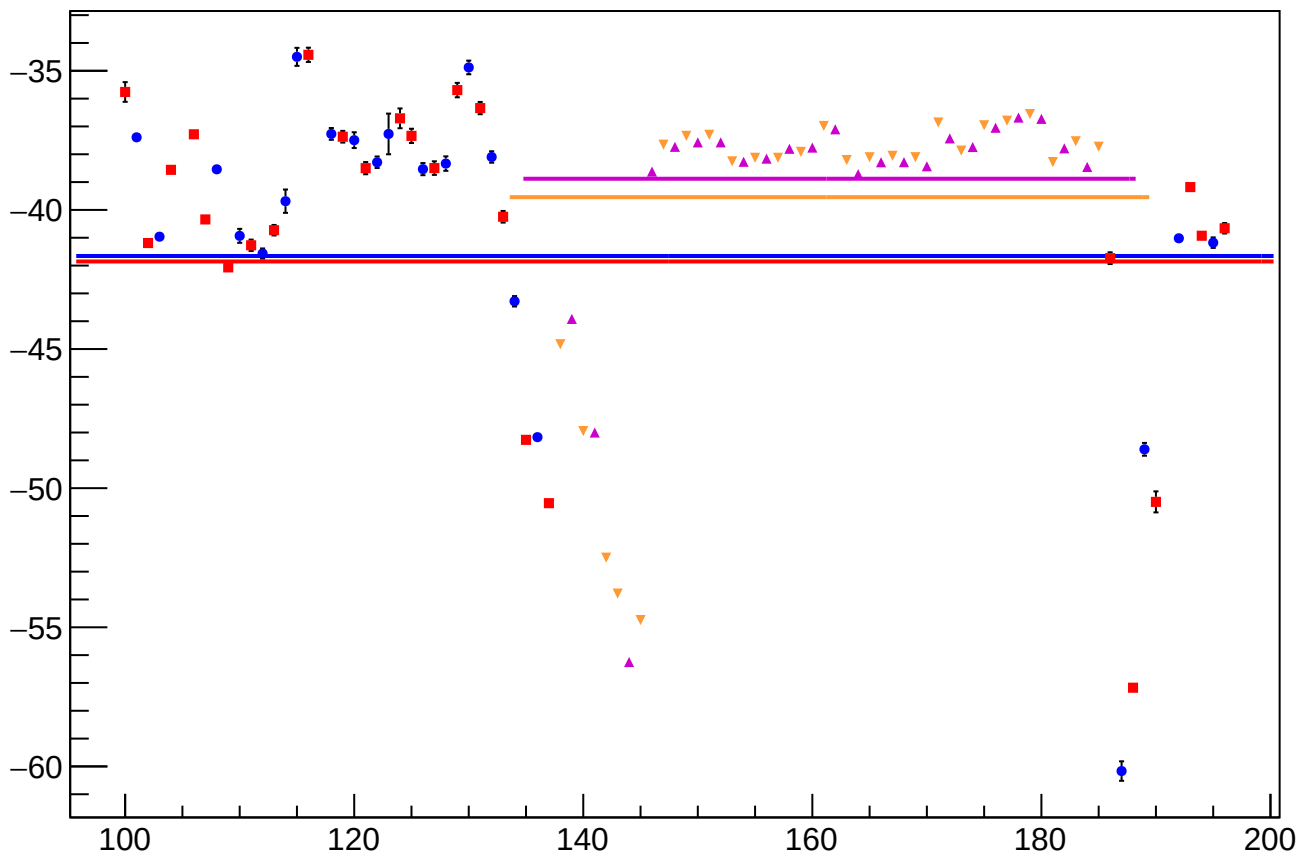
Right: 8.555±0.489 χ^2/NDF : 879.9/45

In: 17.669±0.307 χ^2/NDF :1747.8/43

Out: 17.064±0.301 χ^2/NDF :2166.1/49

All: 17.360±0.215 χ^2/NDF : 3915.9/93

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.656 ± 0.036 $\chi^2/\text{NDF}: 16316.2/20$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.853 ± 0.035 $\chi^2/\text{NDF}: 22558.4/24$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

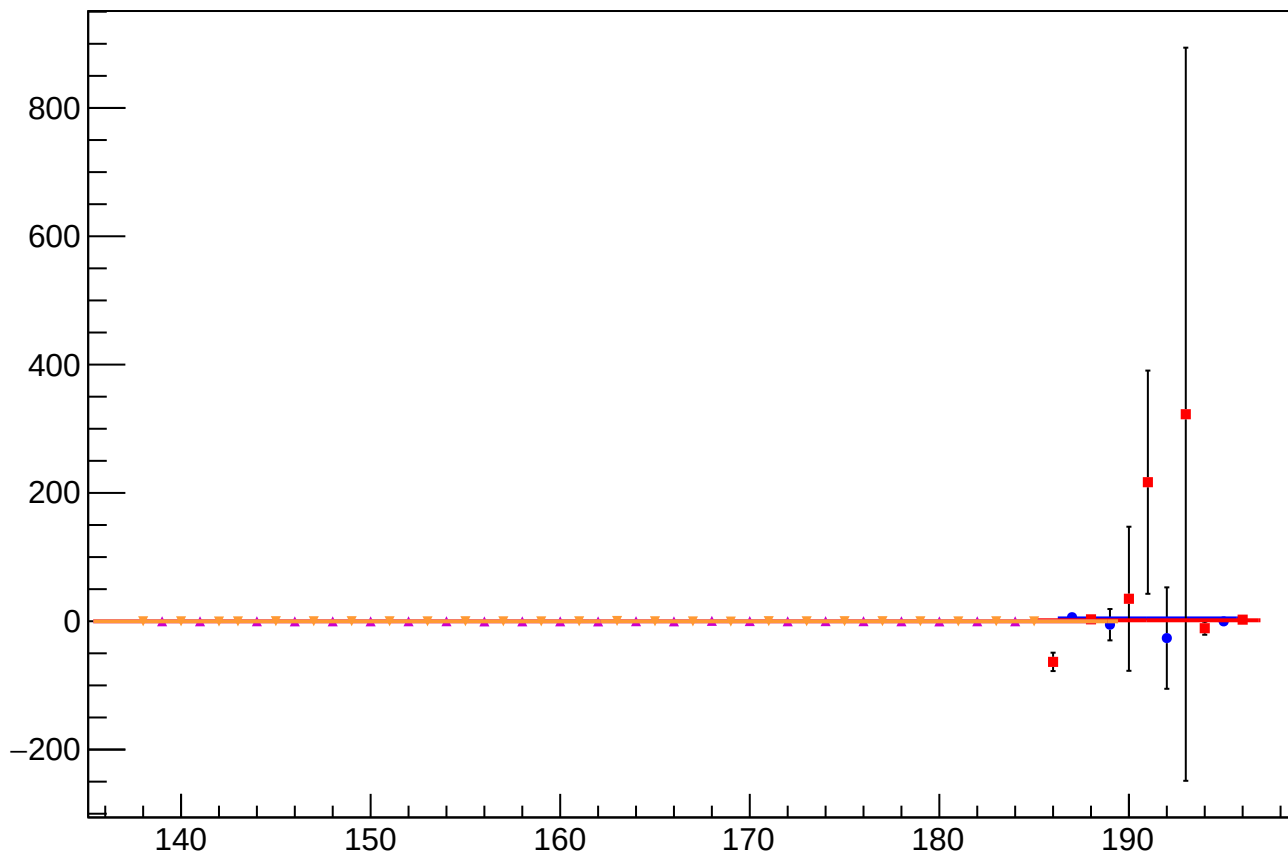
Right: -41.759 ± 0.025 $\chi^2/\text{NDF}: 38890.1/45$

In: -39.327 ± 0.015 $\chi^2/\text{NDF}: 74663.7/43$

Out: -39.939 ± 0.014 $\chi^2/\text{NDF}: 118294.1/49$

All: -39.638 ± 0.010 $\chi^2/\text{NDF}: 193857.7/93$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.372+/-2.545 χ^2/NDF : 1.6/3

Left Out: -0.095+/-0.022 χ^2/NDF : 41.8/24

Right Out: 1.486+/-1.790 χ^2/NDF : 24.5/6

Left In: -0.026+/-0.022 χ^2/NDF : 33.3/22

Left: -0.061+/-0.016 χ^2/NDF : 80.1/47

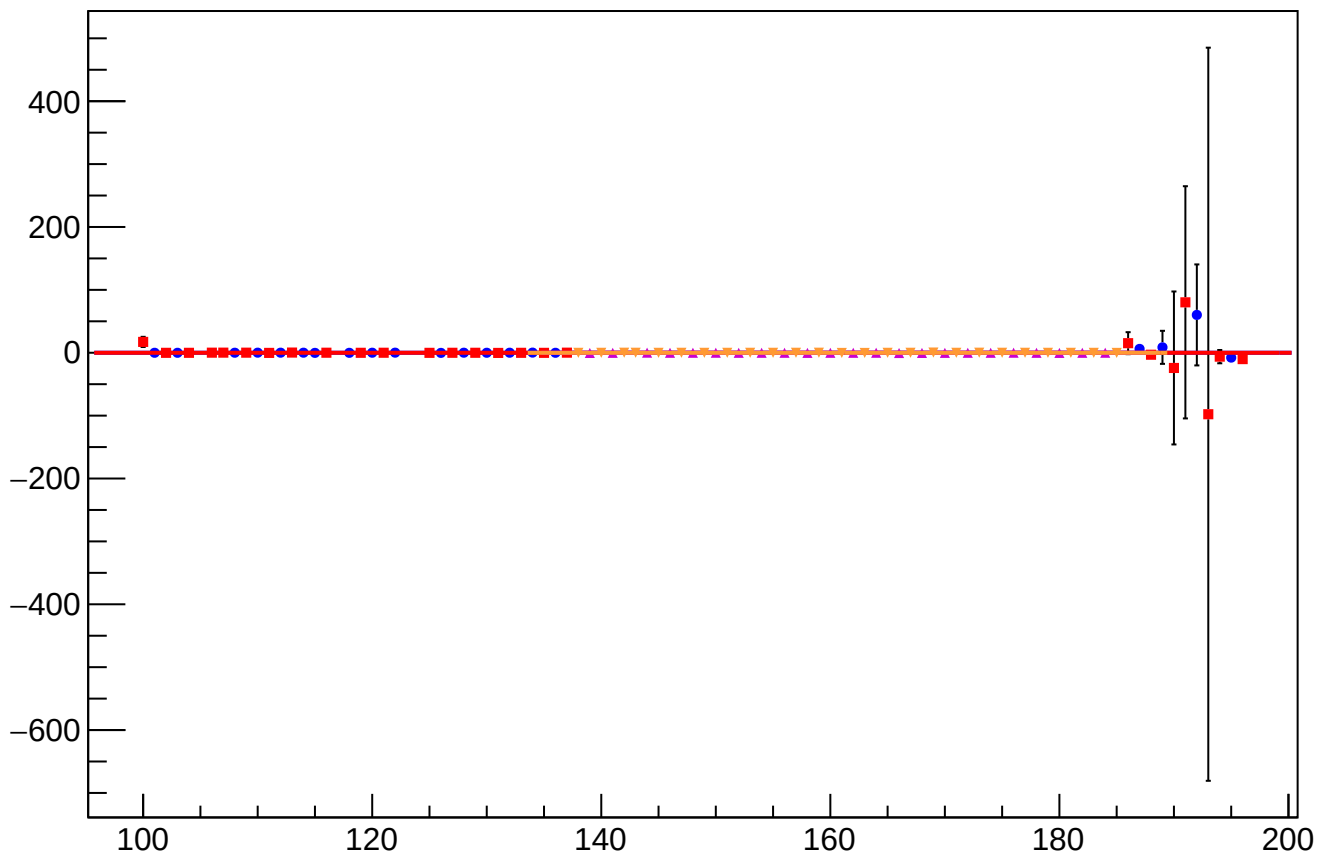
Right: 2.440+/-1.464 χ^2/NDF : 27.0/10

In: -0.025+/-0.022 χ^2/NDF : 37.9/26

Out: -0.095+/-0.022 χ^2/NDF : 67.1/31

All: -0.061+/-0.016 χ^2/NDF : 110.0/58

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 16.7/19

Left Out: -0.078 ± 0.017 χ^2/NDF : 26.6/24

Right Out: -0.051 ± 0.029 χ^2/NDF : 30.8/24

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.065 ± 0.012 χ^2/NDF : 59.4/47

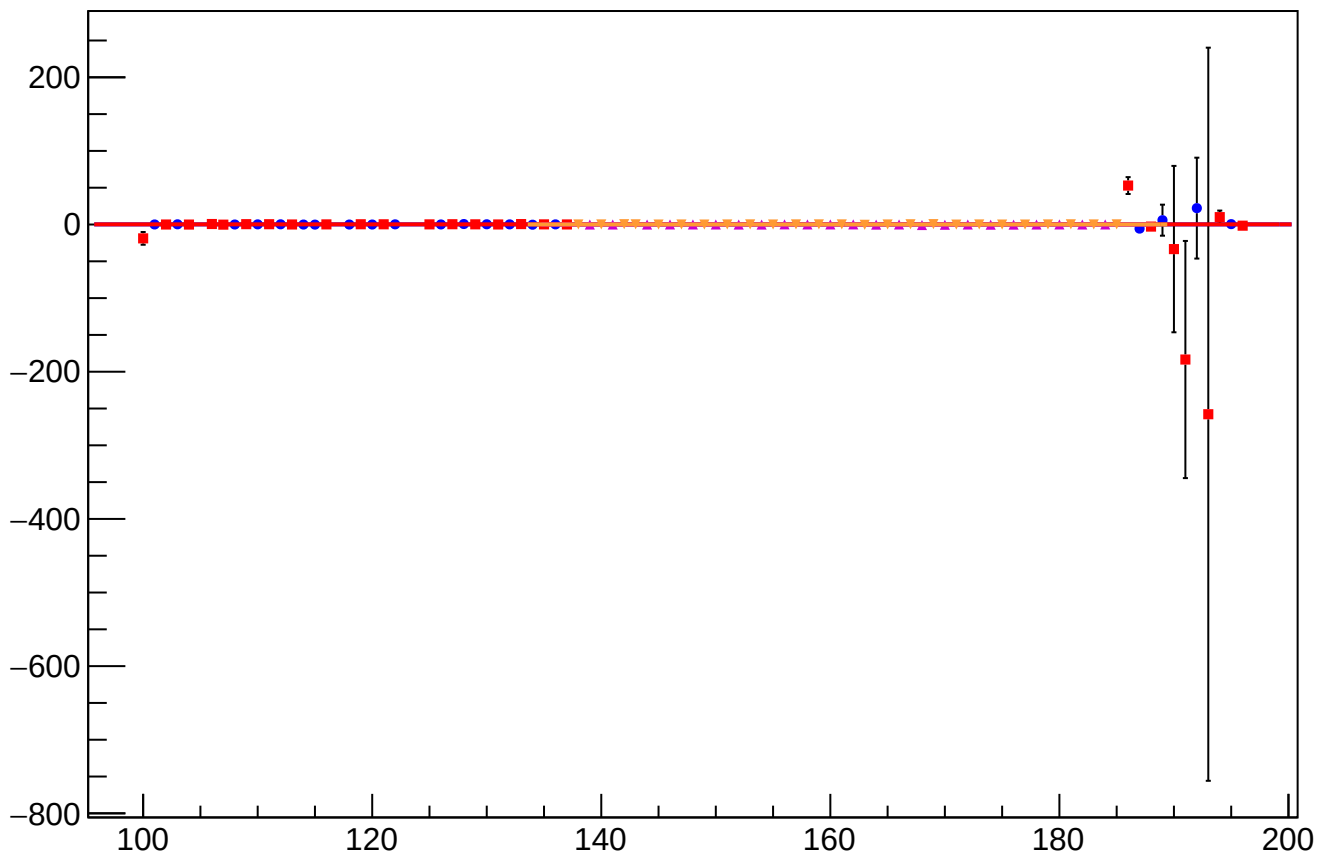
Right: -0.025 ± 0.020 χ^2/NDF : 48.9/44

In: -0.038 ± 0.015 χ^2/NDF : 50.7/42

Out: -0.071 ± 0.015 χ^2/NDF : 58.0/49

All: -0.055 ± 0.010 χ^2/NDF : 111.1/92

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 18.0/19

Left Out: 0.088 $\pm$ 0.022 χ^2 /NDF:40.7/24

Right Out: 0.233 $\pm$ 0.054 χ^2 /NDF: 49.4/24

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.055 $\pm$ 0.015 χ^2 /NDF: 81.0/47

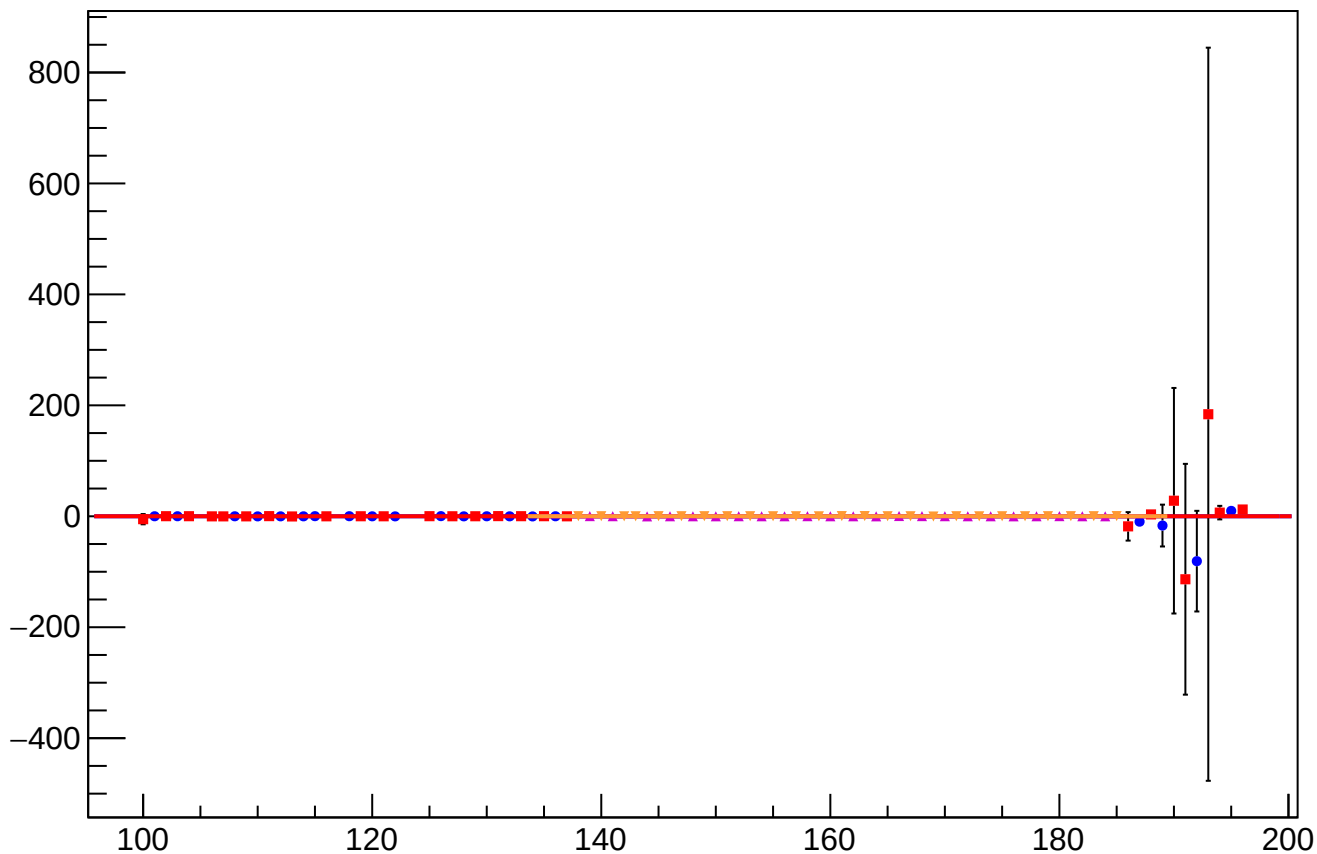
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 68.0/44

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.6/42

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:96.4/49

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 162.1/92

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 $\chi^2/\text{NDF}: 19.0/19$

Left Out: 0.102 ± 0.019 $\chi^2/\text{NDF}: 30.2/24$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 25.2/24$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.086 ± 0.014 $\chi^2/\text{NDF}: 63.0/47$

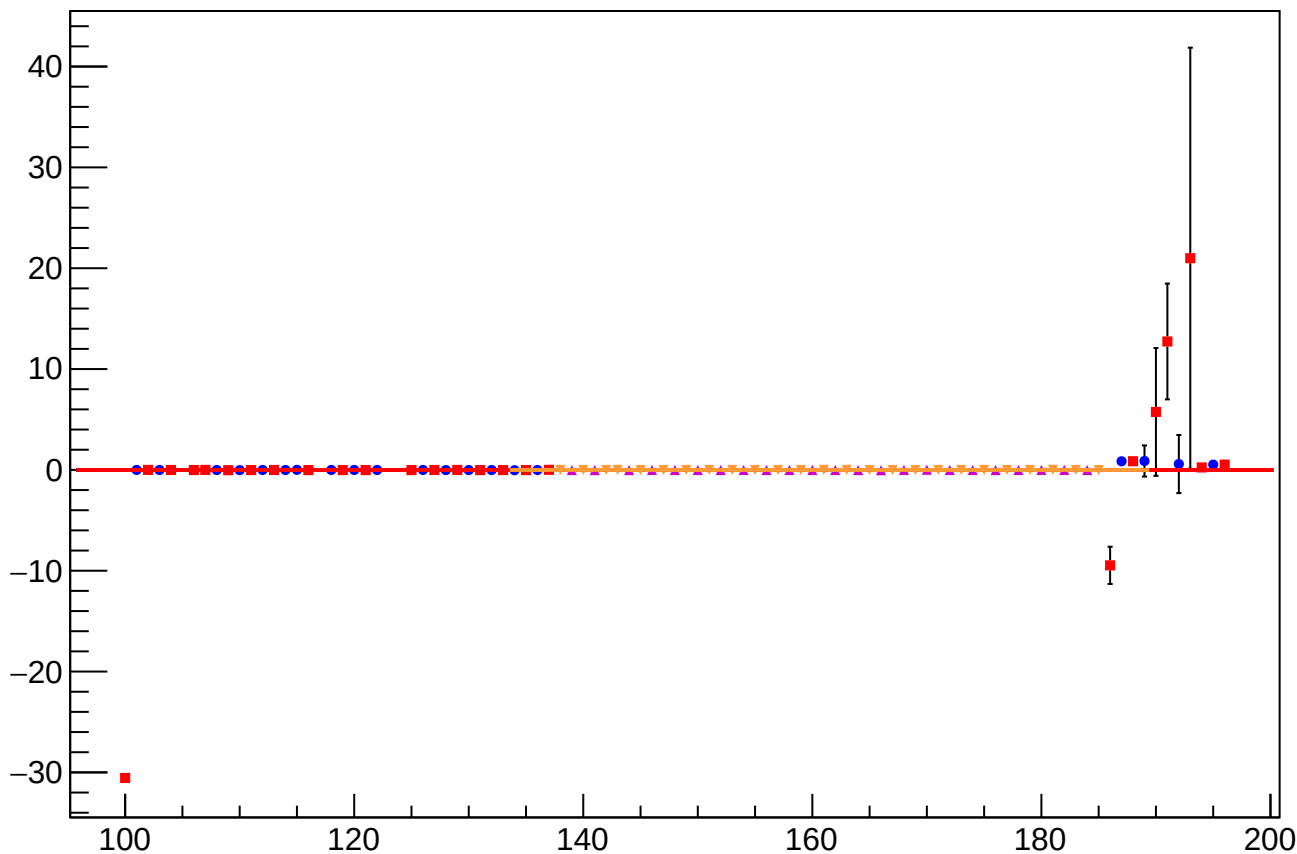
Right: 0.025 ± 0.024 $\chi^2/\text{NDF}: 46.0/44$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 54.2/42$

Out: 0.091 ± 0.017 $\chi^2/\text{NDF}: 56.7/49$

All: 0.070 ± 0.012 $\chi^2/\text{NDF}: 114.0/92$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 24.9/19

Left Out: -0.008 ± 0.001 χ^2/NDF : 34.7/24

Right Out: -0.012 ± 0.002 χ^2/NDF : 11943.3/24

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 76.4/47

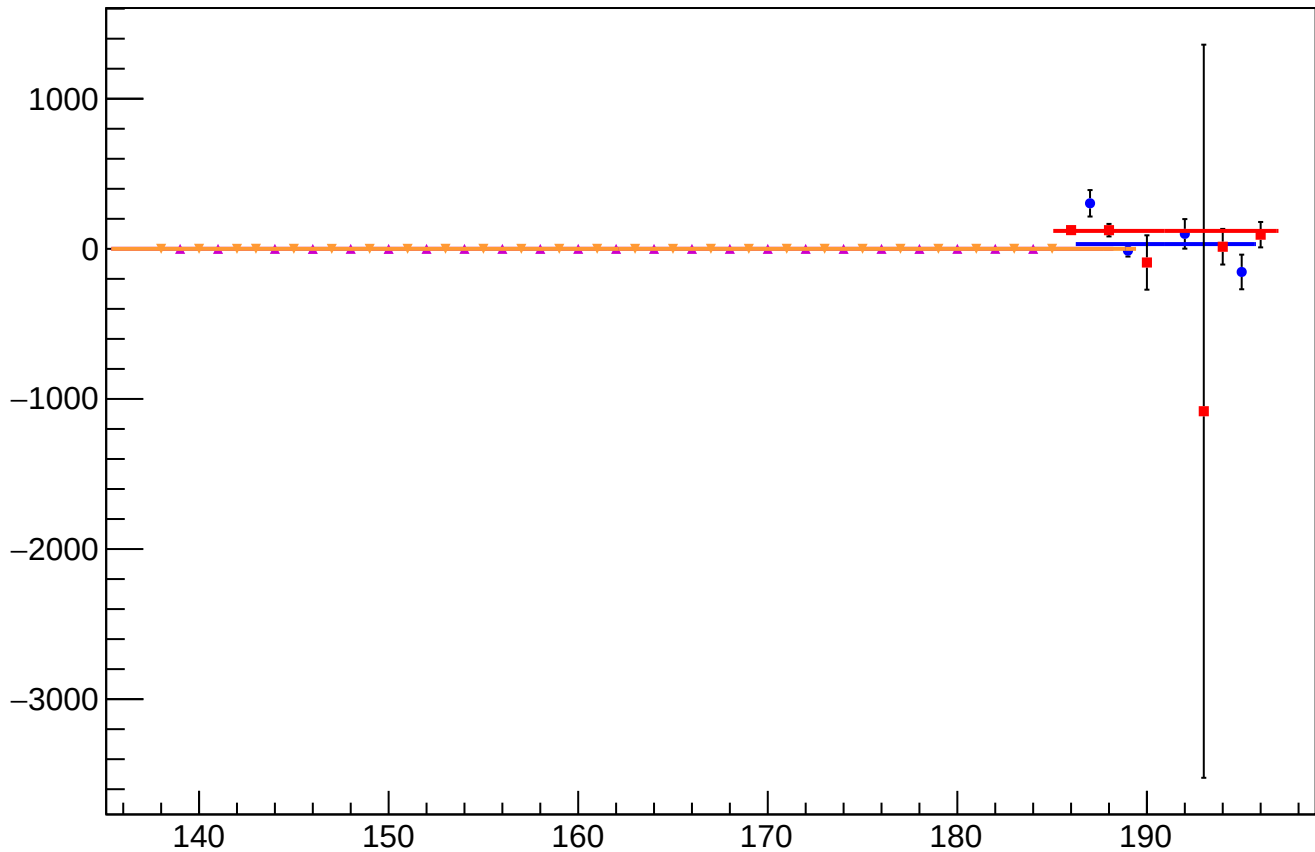
Right: -0.012 ± 0.001 χ^2/NDF : 11968.2/44

In: -0.009 ± 0.001 χ^2/NDF : 68.0/42

Out: -0.008 ± 0.001 χ^2/NDF : 11982.7/49

All: -0.009 ± 0.001 χ^2/NDF : 12051.4/92

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 31.698+/-32.467 χ^2/NDF : 13.8/3

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 119.474+/-16.572 χ^2/NDF : 2.6/5

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

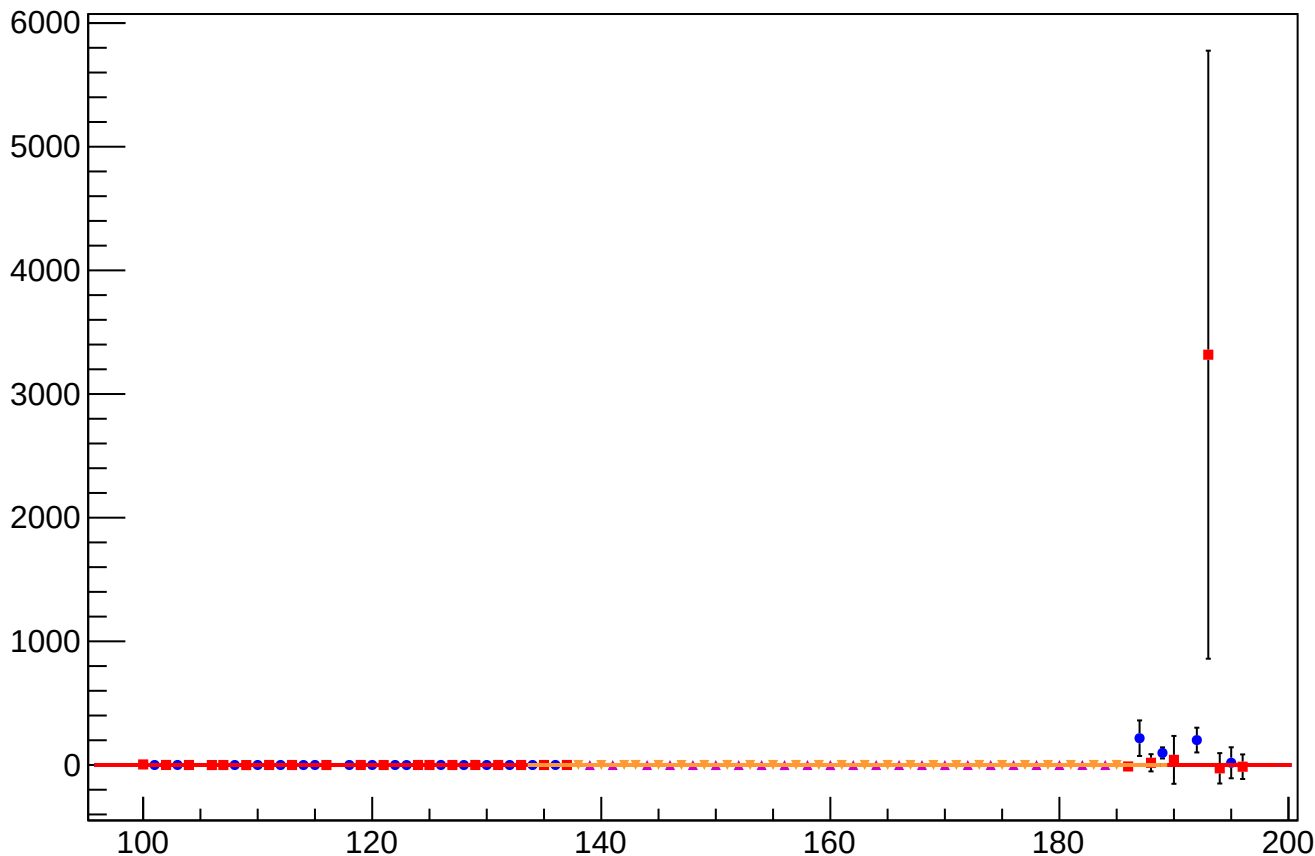
Right: 101.331+/-14.760 χ^2/NDF : 22.1/9

In: 0.002+/-0.028 χ^2/NDF :43.7/26

Out: 0.018+/-0.027 χ^2/NDF :85.5/30

All: 0.010+/-0.019 χ^2/NDF : 129.4/57

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 34.0/20$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 20.7/24$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

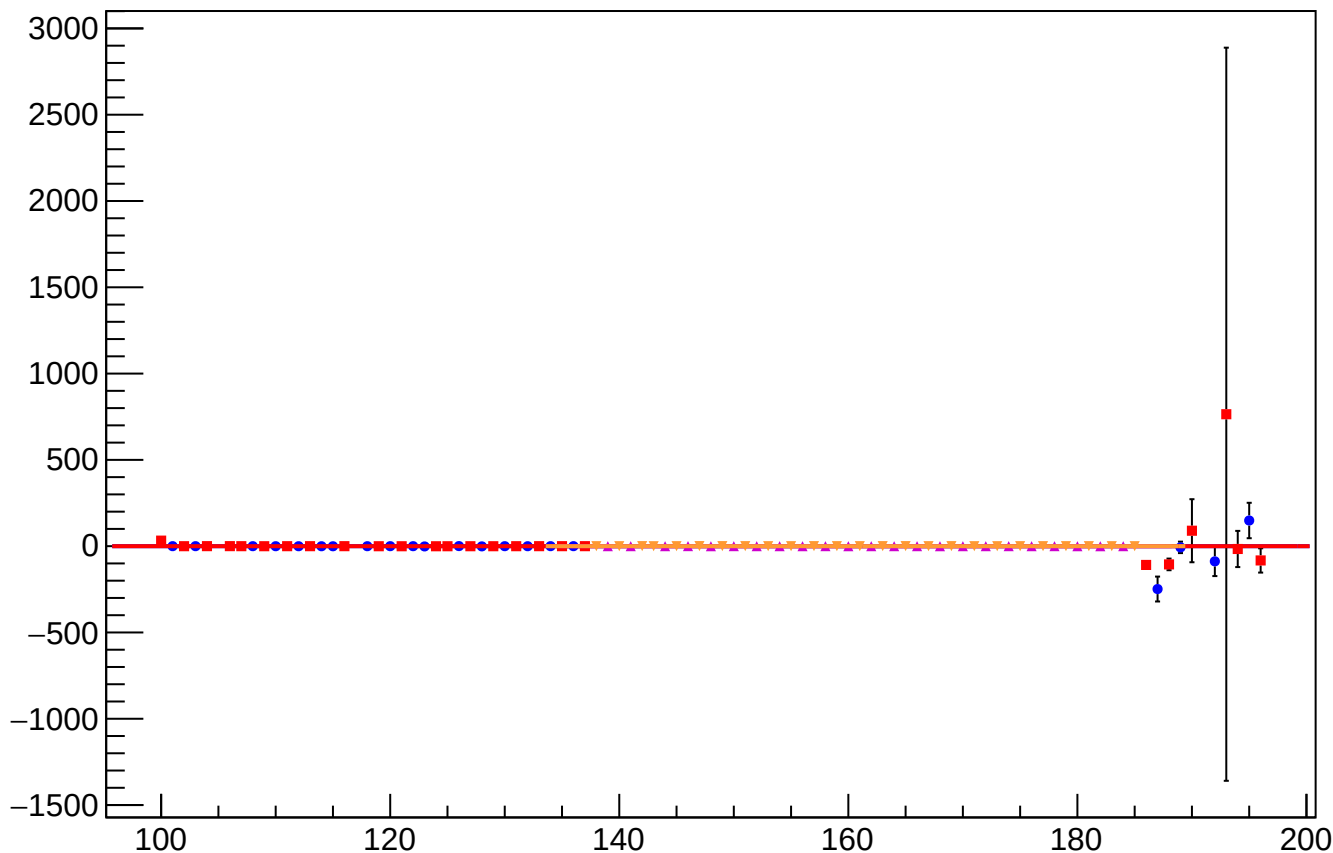
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 58.1/45$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 84.3/43$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 47.2/49$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 131.9/93$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 39.8/20

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 77.6/24

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

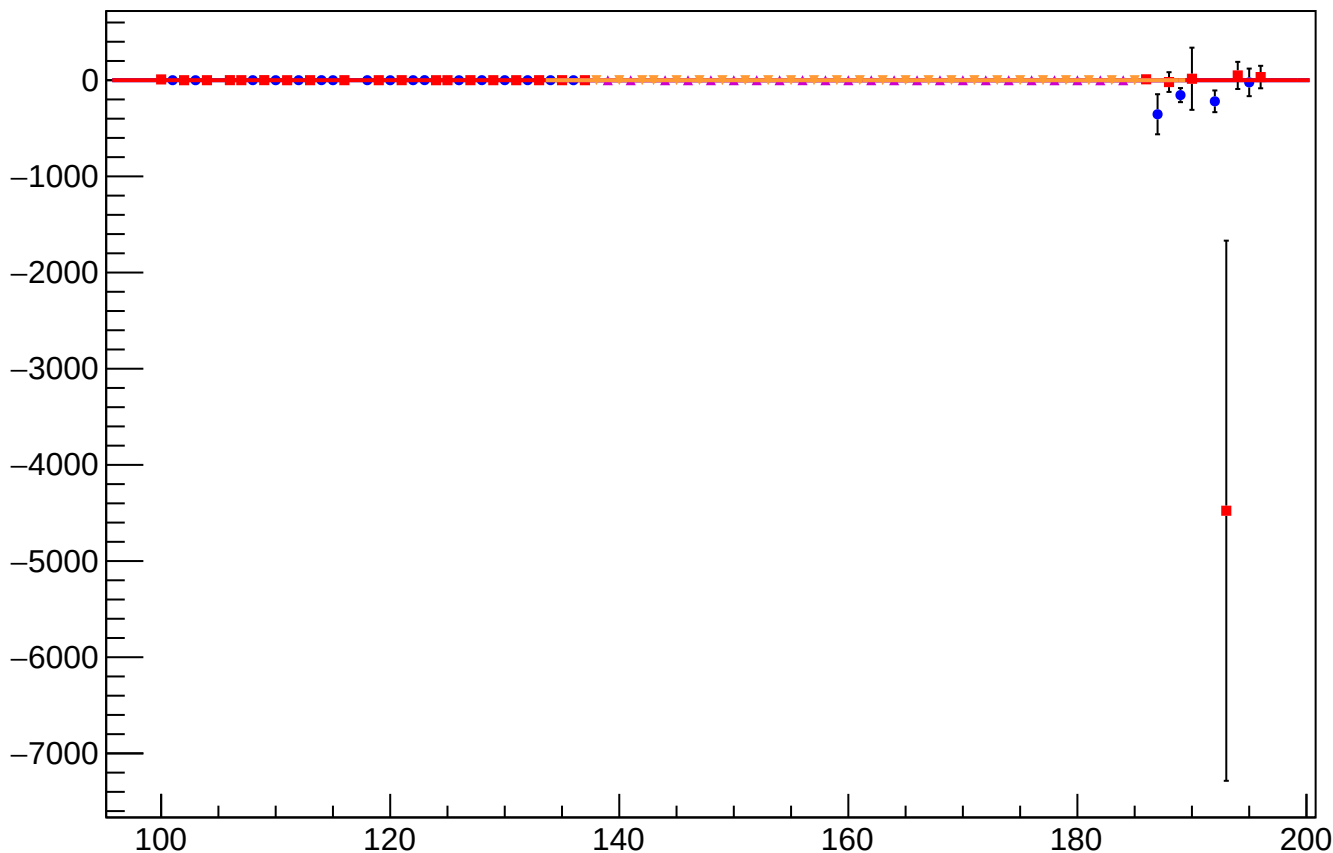
Right: -0.150 ± 0.049 χ^2/NDF : 117.5/45

In: -0.047 ± 0.025 χ^2/NDF : 70.2/43

Out: -0.037 ± 0.025 χ^2/NDF : 110.5/49

All: -0.042 ± 0.018 χ^2/NDF : 180.8/93

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 32.8/20

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 19.7/24

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

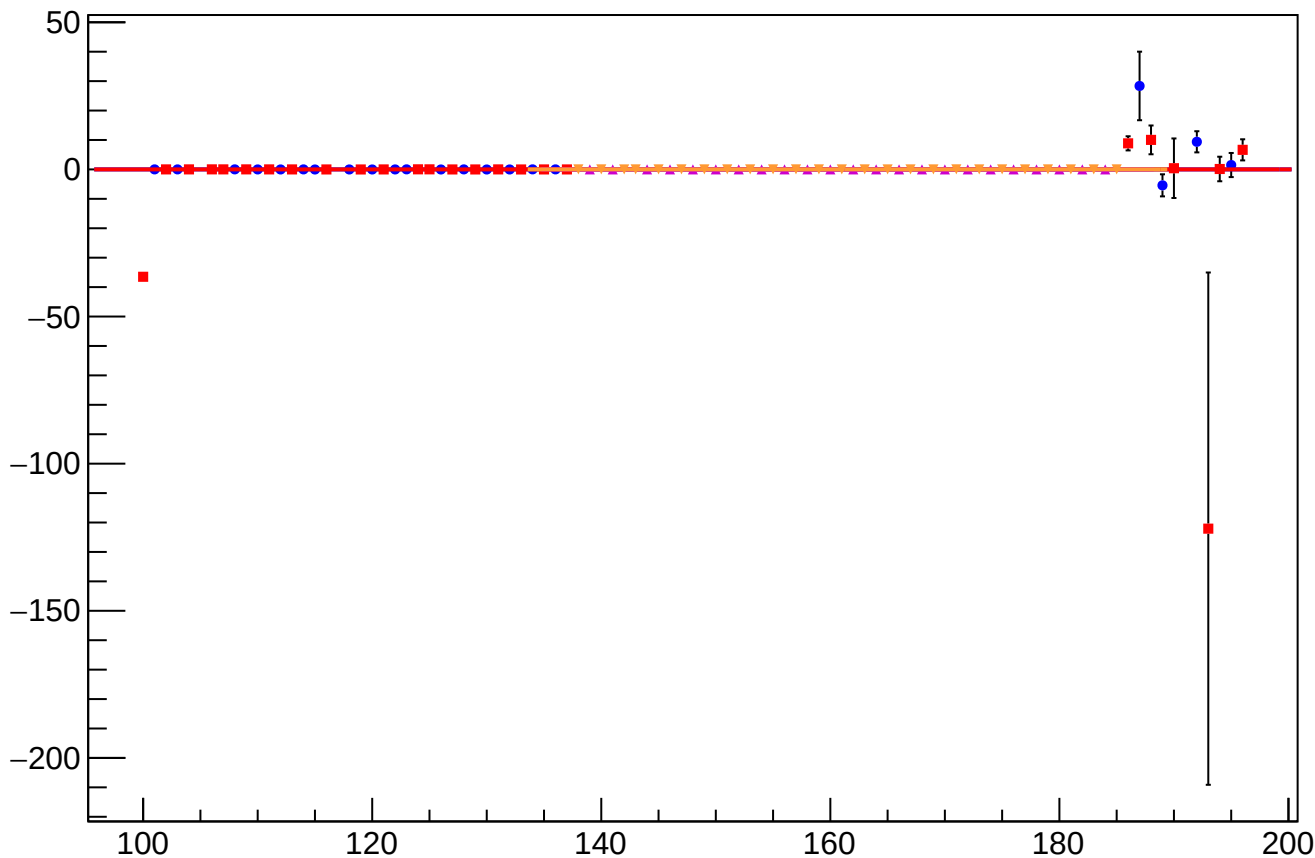
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 56.5/45

In: 0.056 $\pm$ 0.021 χ^2 /NDF:85.6/43

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:46.8/49

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 133.1/93

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 ± 0.002 $\chi^2/\text{NDF}: 45.4/20$

Left Out: 0.008 ± 0.001 $\chi^2/\text{NDF}: 26.3/24$

Right Out: 0.001 ± 0.002 $\chi^2/\text{NDF}: 10472.3/24$

Left In: 0.009 ± 0.001 $\chi^2/\text{NDF}: 15.0/22$

Left: 0.009 ± 0.001 $\chi^2/\text{NDF}: 41.4/47$

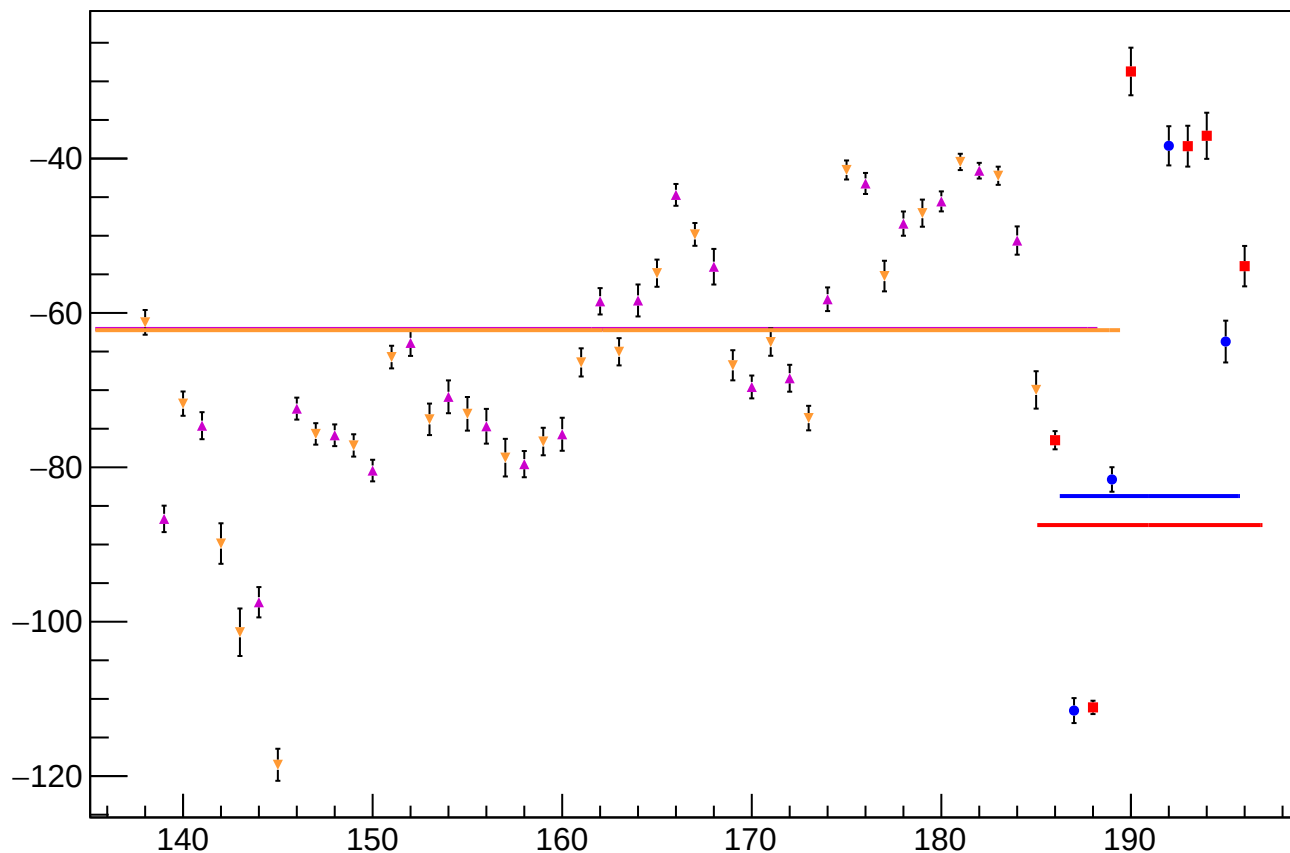
Right: 0.001 ± 0.002 $\chi^2/\text{NDF}: 10517.8/45$

In: 0.007 ± 0.001 $\chi^2/\text{NDF}: 69.9/43$

Out: 0.007 ± 0.001 $\chi^2/\text{NDF}: 10507.6/49$

All: 0.007 ± 0.001 $\chi^2/\text{NDF}: 10577.6/93$

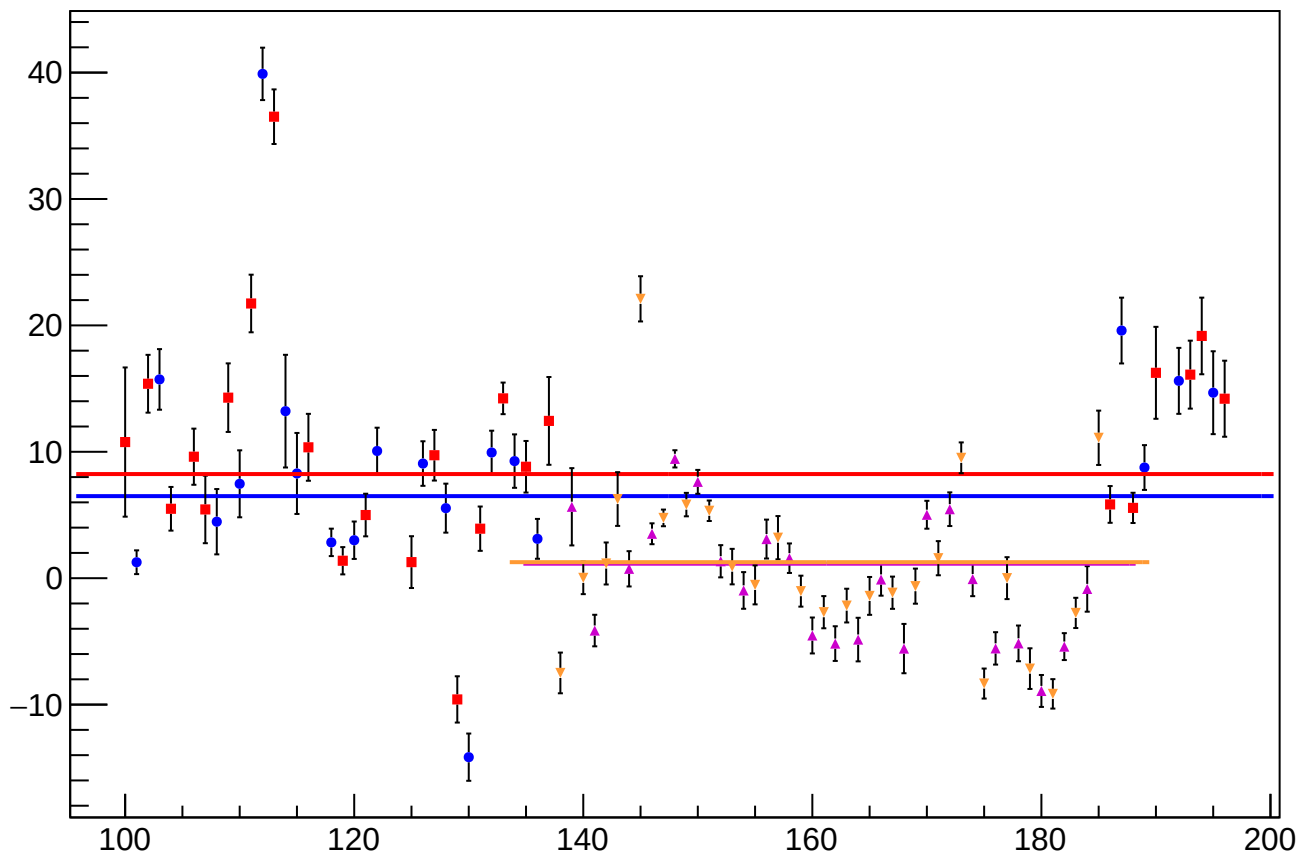
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -83.722 ± 0.966 χ^2/NDF : 671.0/3
 Left Out: -62.232 ± 0.332 χ^2/NDF : 2668.5/24
 Right Out: -87.480 ± 0.624 χ^2/NDF : 1990.3/5
 Left In: -62.073 ± 0.332 χ^2/NDF : 2192.0/22

Left: -62.153 ± 0.235 χ^2/NDF : 4860.6/47
 Right: -86.374 ± 0.524 χ^2/NDF : 2672.0/9
 In: -64.362 ± 0.314 χ^2/NDF : 3311.7/26
 Out: -67.796 ± 0.293 χ^2/NDF : 5933.8/30
 All: -66.199 ± 0.214 χ^2/NDF : 9309.4/57

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.493 ± 0.404 $\chi^2/\text{NDF}: 509.6/19$

Left Out: 1.269 ± 0.251 $\chi^2/\text{NDF}: 531.9/24$

Right Out: 8.239 ± 0.393 $\chi^2/\text{NDF}: 445.8/23$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.208 ± 0.179 $\chi^2/\text{NDF}: 995.0/47$

Right: 7.390 ± 0.282 $\chi^2/\text{NDF}: 964.9/43$

In: 2.671 ± 0.216 $\chi^2/\text{NDF}: 1097.6/42$

Out: 3.286 ± 0.211 $\chi^2/\text{NDF}: 1201.2/48$

All: 2.985 ± 0.151 $\chi^2/\text{NDF}: 2302.9/91$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 93.560 $\pm$ 0.575 χ^2 /NDF: 4038.6/19

Left Out: 61.812 $\pm$ 0.331 χ^2 /NDF:2686.4/24

Right Out: 93.515 $\pm$ 0.435 χ^2 /NDF: 5636.3/23

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.787 $\pm$ 0.234 χ^2 /NDF: 5104.6/47

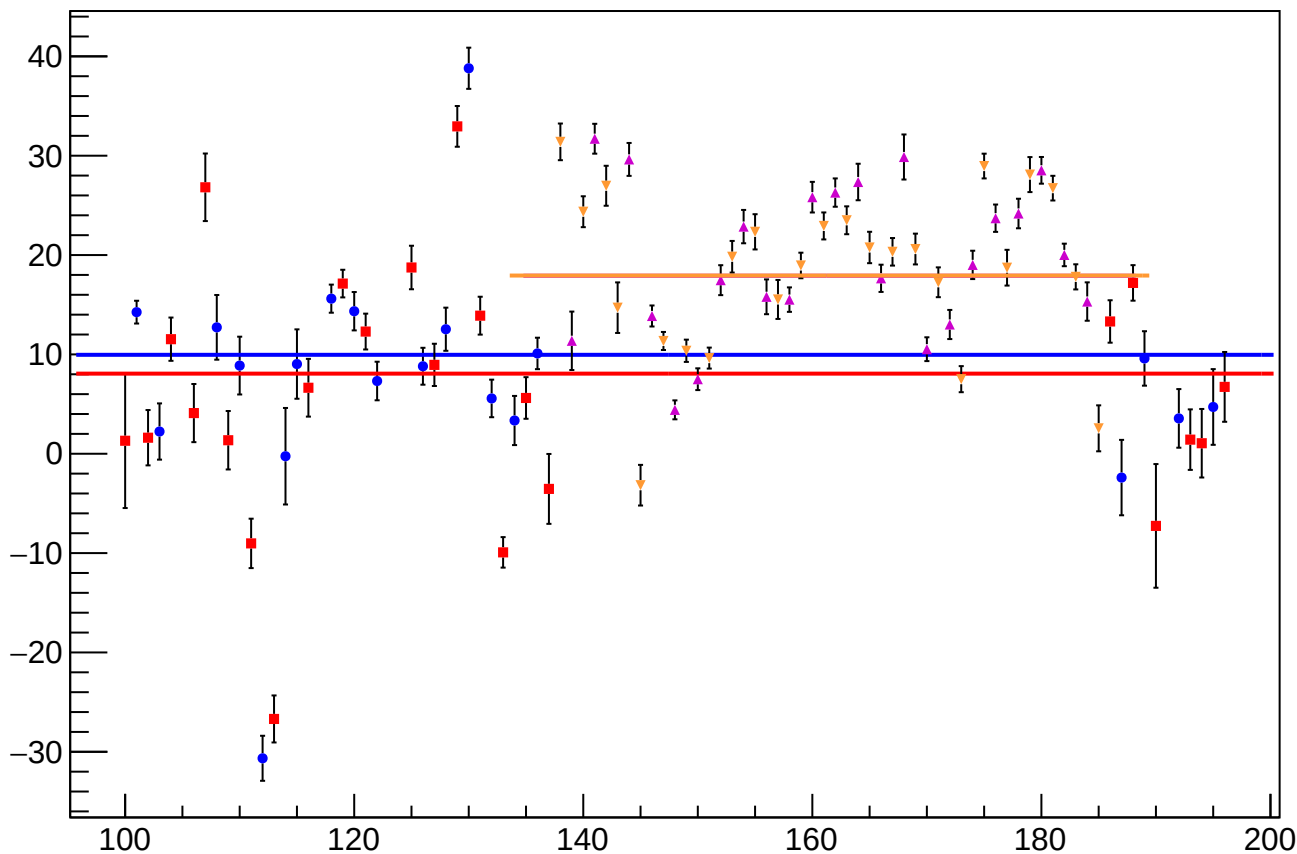
Right: 93.531 $\pm$ 0.347 χ^2 /NDF: 9675.0/43

In: 69.647 $\pm$ 0.286 χ^2 /NDF:8759.8/42

Out: 73.405 $\pm$ 0.263 χ^2 /NDF:11684.7/48

All: 71.682 $\pm$ 0.194 χ^2 /NDF: 20537.9/91

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.958 ± 0.476 $\chi^2/\text{NDF}: 596.1/19$

Left Out: 17.937 ± 0.289 $\chi^2/\text{NDF}: 676.0/24$

Right Out: 8.064 ± 0.473 $\chi^2/\text{NDF}: 735.1/23$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.927 ± 0.206 $\chi^2/\text{NDF}: 1402.5/47$

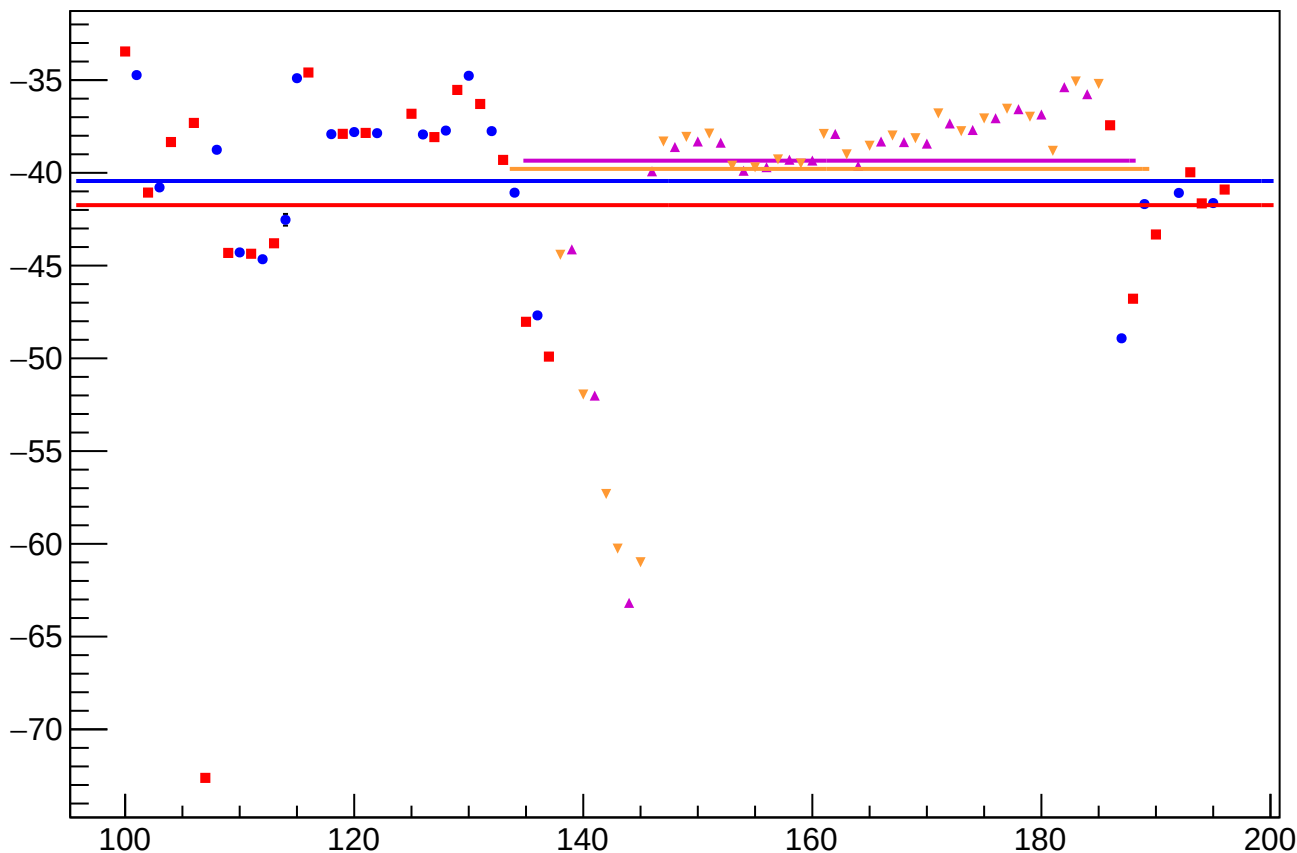
Right: 9.005 ± 0.335 $\chi^2/\text{NDF}: 1339.2/43$

In: 15.736 ± 0.249 $\chi^2/\text{NDF}: 1525.6/42$

Out: 15.253 ± 0.247 $\chi^2/\text{NDF}: 1728.4/48$

All: 15.492 ± 0.175 $\chi^2/\text{NDF}: 3256.0/91$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.440 ± 0.026 $\chi^2/\text{NDF}: 27012.4/19$

Left Out: -39.788 ± 0.014 $\chi^2/\text{NDF}: 165493.8/24$

Right Out: -41.741 ± 0.024 $\chi^2/\text{NDF}: 65980.3/23$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.565 ± 0.010 $\chi^2/\text{NDF}: 282639.2/47$

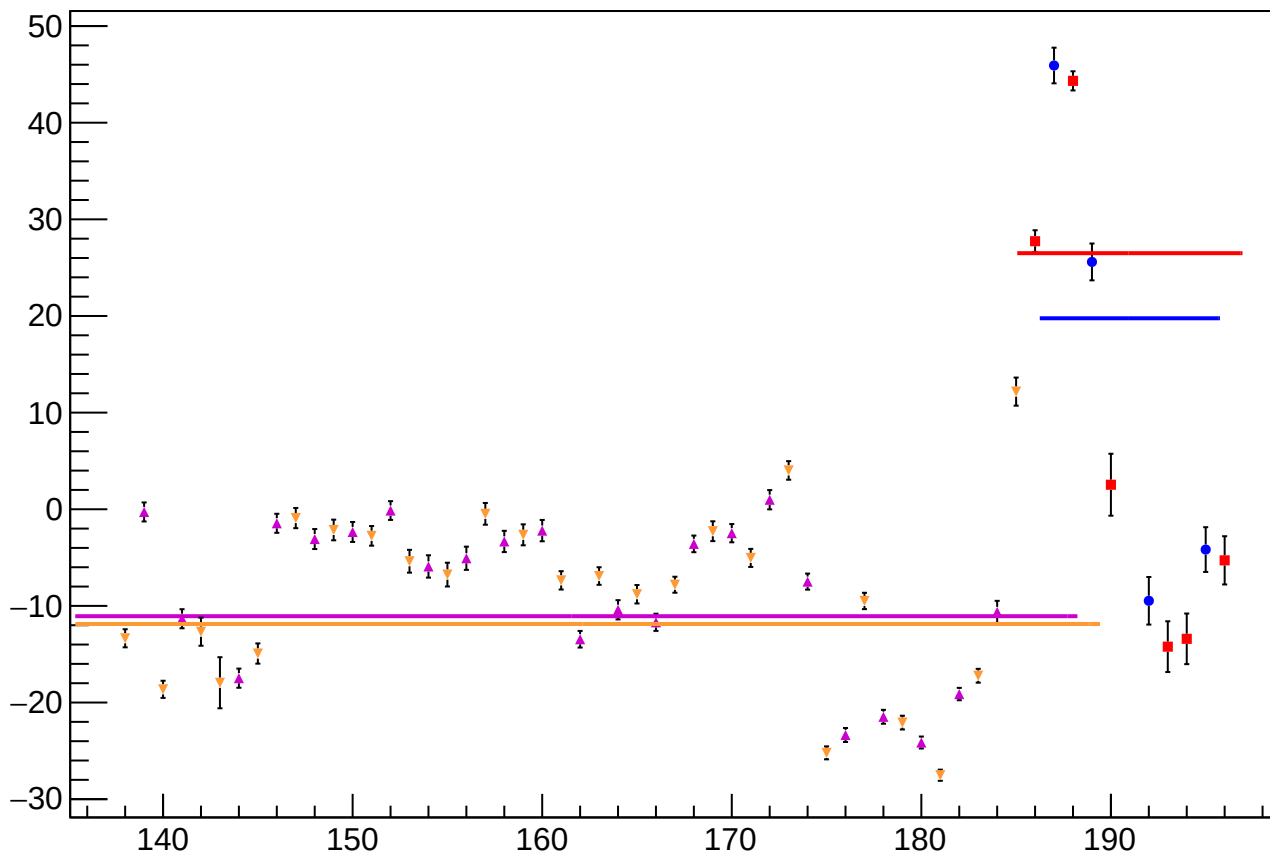
Right: -41.128 ± 0.018 $\chi^2/\text{NDF}: 94351.2/43$

In: -39.584 ± 0.012 $\chi^2/\text{NDF}: 145051.0/42$

Out: -40.258 ± 0.012 $\chi^2/\text{NDF}: 236401.2/48$

All: -39.924 ± 0.008 $\chi^2/\text{NDF}: 383041.5/91$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



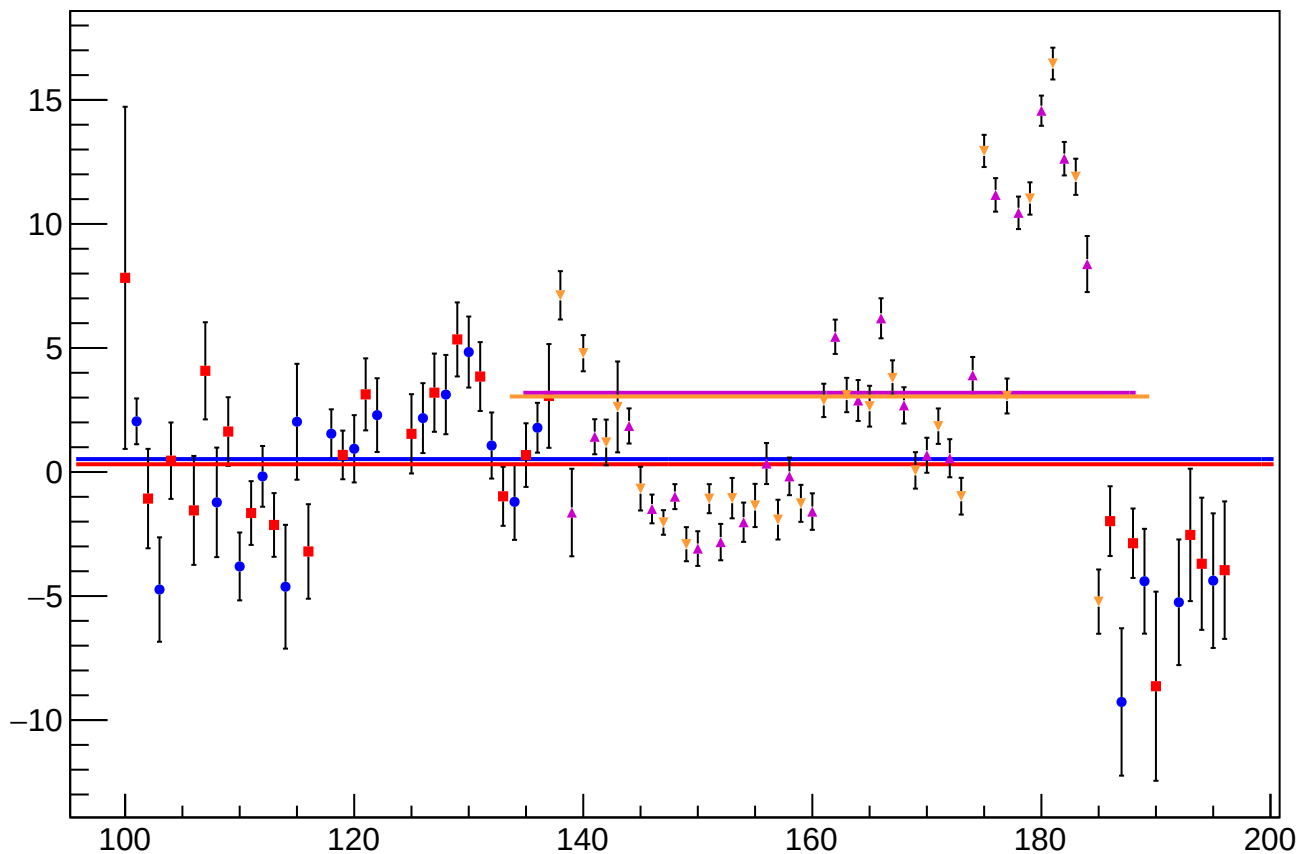
Right In: 19.762 ± 1.042 $\chi^2/\text{NDF}: 458.3/3$
 Left Out: -11.873 ± 0.186 $\chi^2/\text{NDF}: 2745.2/24$
 Right Out: 26.499 ± 0.653 $\chi^2/\text{NDF}: 1016.0/5$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.473 ± 0.132 $\chi^2/\text{NDF}: 4859.2/47$
 Right: 24.600 ± 0.553 $\chi^2/\text{NDF}: 1504.3/9$

In: -10.096 ± 0.185 $\chi^2/\text{NDF}: 3410.6/26$
 Out: -8.983 ± 0.179 $\chi^2/\text{NDF}: 6954.4/30$

All: -9.521 ± 0.129 $\chi^2/\text{NDF}: 10383.6/57$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.521 ± 0.330 χ^2/NDF : 68.1/19

Left Out: 3.044 ± 0.147 χ^2/NDF : 1457.3/24

Right Out: 0.313 ± 0.325 χ^2/NDF : 64.2/23

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.118 ± 0.105 χ^2/NDF : 2752.7/47

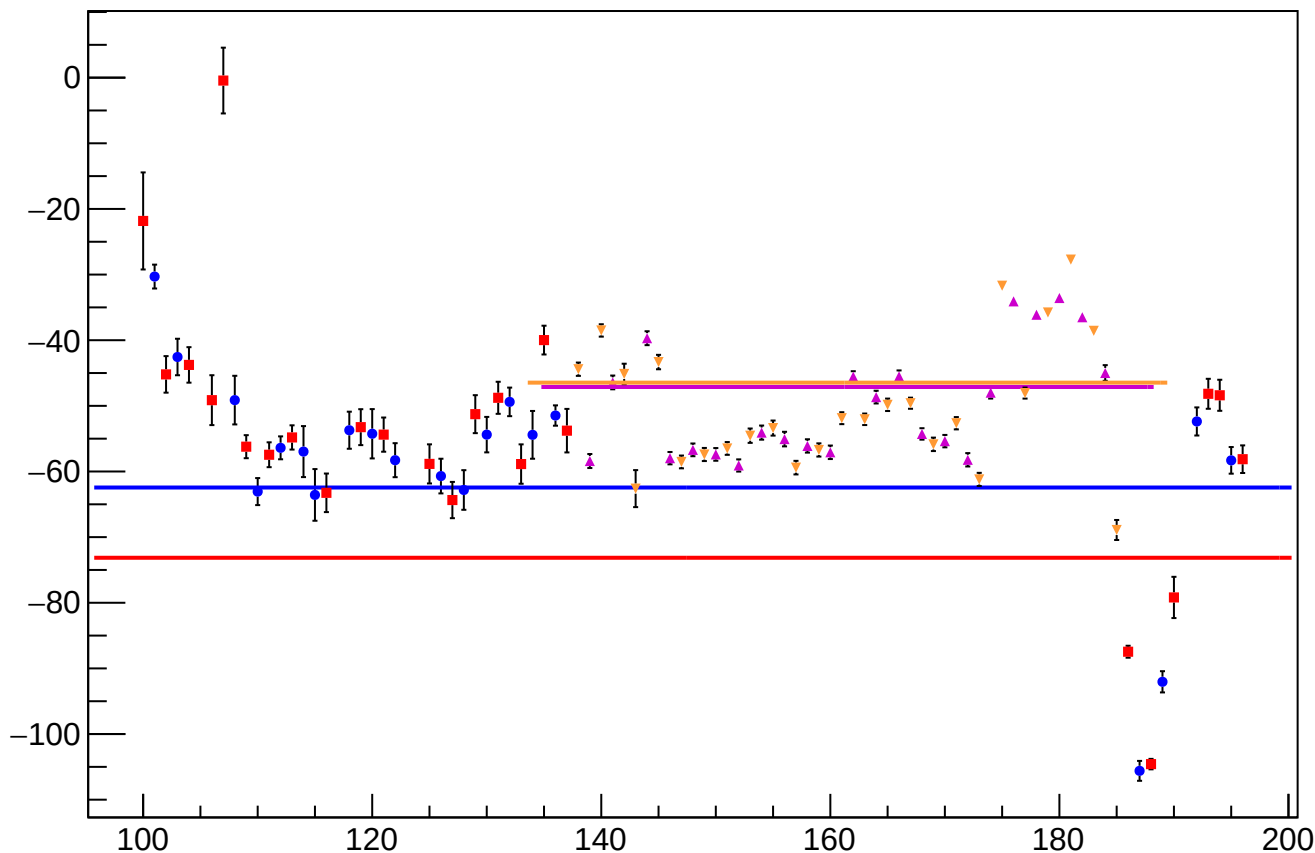
Right: 0.415 ± 0.232 χ^2/NDF : 132.5/43

In: 2.737 ± 0.137 χ^2/NDF : 1417.3/42

Out: 2.577 ± 0.134 χ^2/NDF : 1580.1/48

All: 2.656 ± 0.096 χ^2/NDF : 2998.2/91

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.441 ± 0.505 χ^2/NDF : 1679.9/19

Left Out: -46.463 ± 0.186 χ^2/NDF : 3319.7/24

Right Out: -73.143 ± 0.405 χ^2/NDF : 3452.7/23

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.793 ± 0.132 χ^2/NDF : 5842.0/47

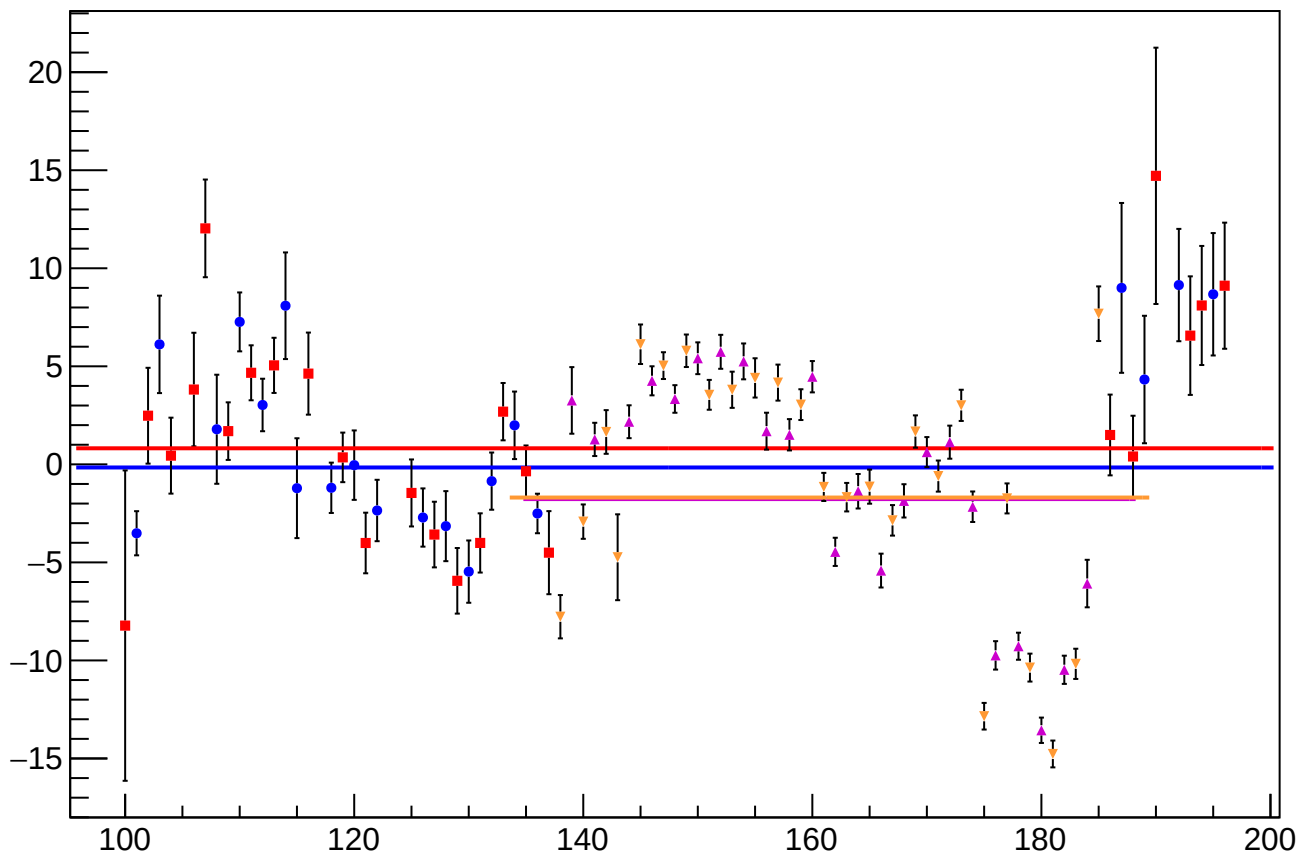
Right: -68.959 ± 0.316 χ^2/NDF : 5405.8/43

In: -48.976 ± 0.176 χ^2/NDF : 5003.6/42

Out: -51.120 ± 0.169 χ^2/NDF : 10357.5/48

All: -50.087 ± 0.122 χ^2/NDF : 15438.4/91

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.159 ± 0.377 χ^2/NDF : 106.9/19

Left Out: -1.693 ± 0.167 χ^2/NDF : 1485.7/24

Right Out: 0.819 ± 0.377 χ^2/NDF : 117.9/23

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.731 ± 0.119 χ^2/NDF : 2737.1/47

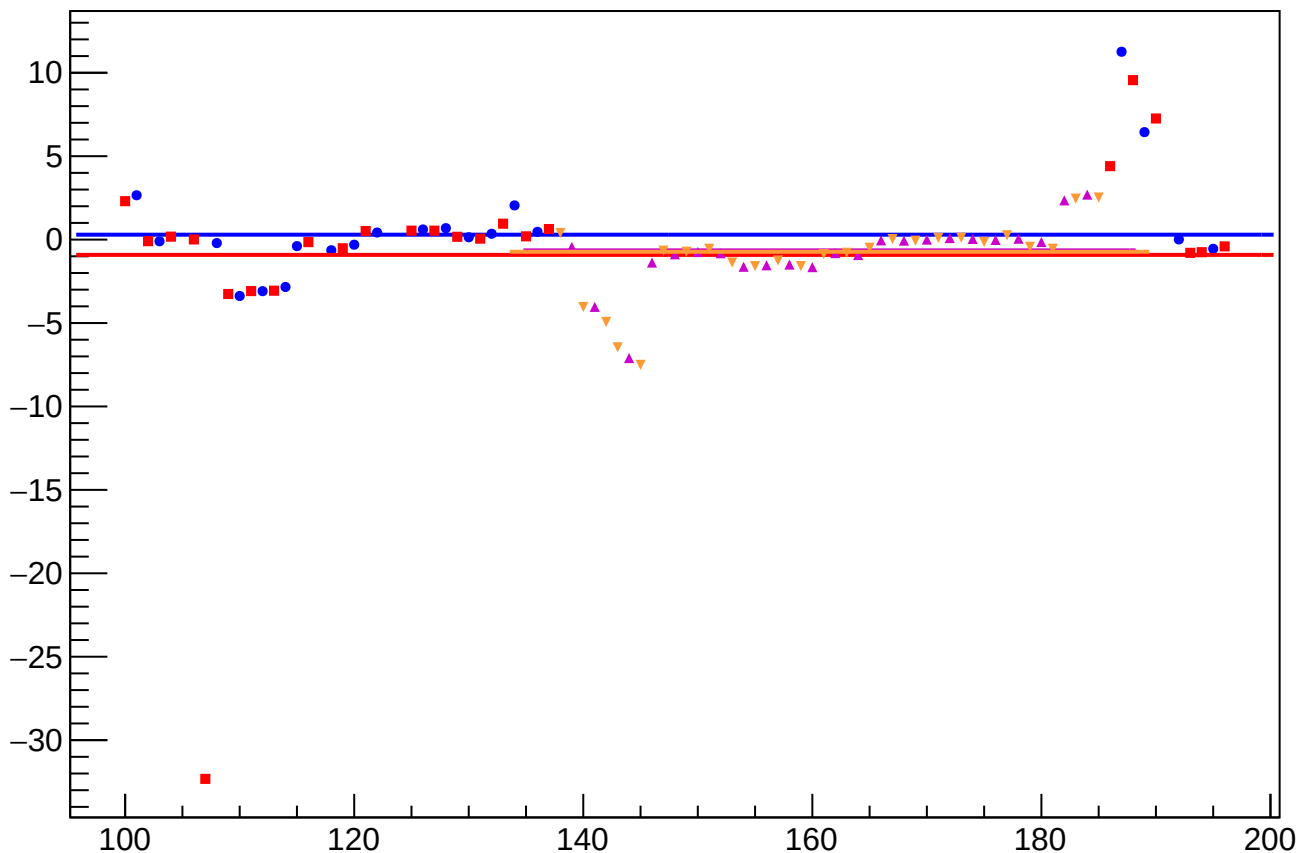
Right: 0.330 ± 0.266 χ^2/NDF : 228.2/43

In: -1.502 ± 0.154 χ^2/NDF : 1373.4/42

Out: -1.282 ± 0.152 χ^2/NDF : 1640.9/48

All: -1.391 ± 0.108 χ^2/NDF : 3015.3/91

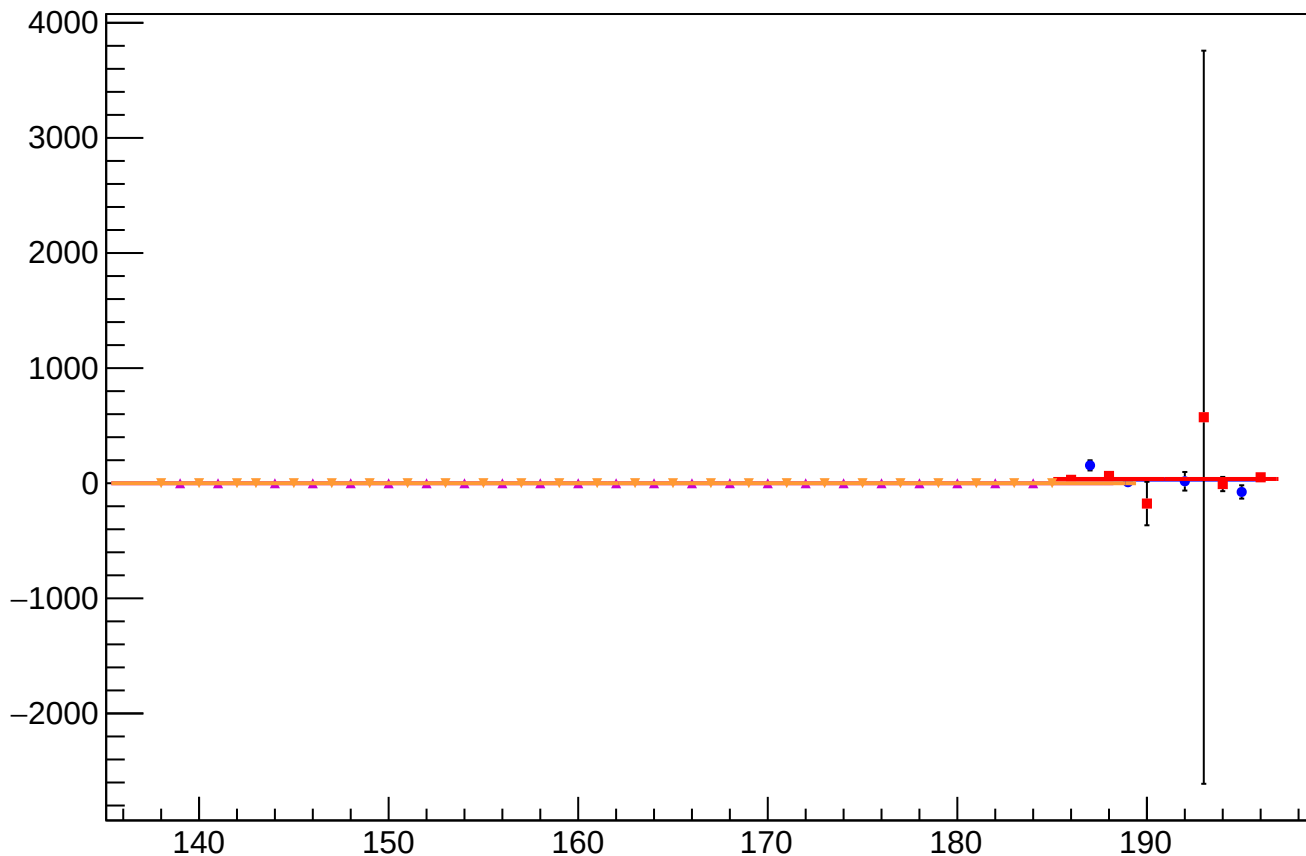
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



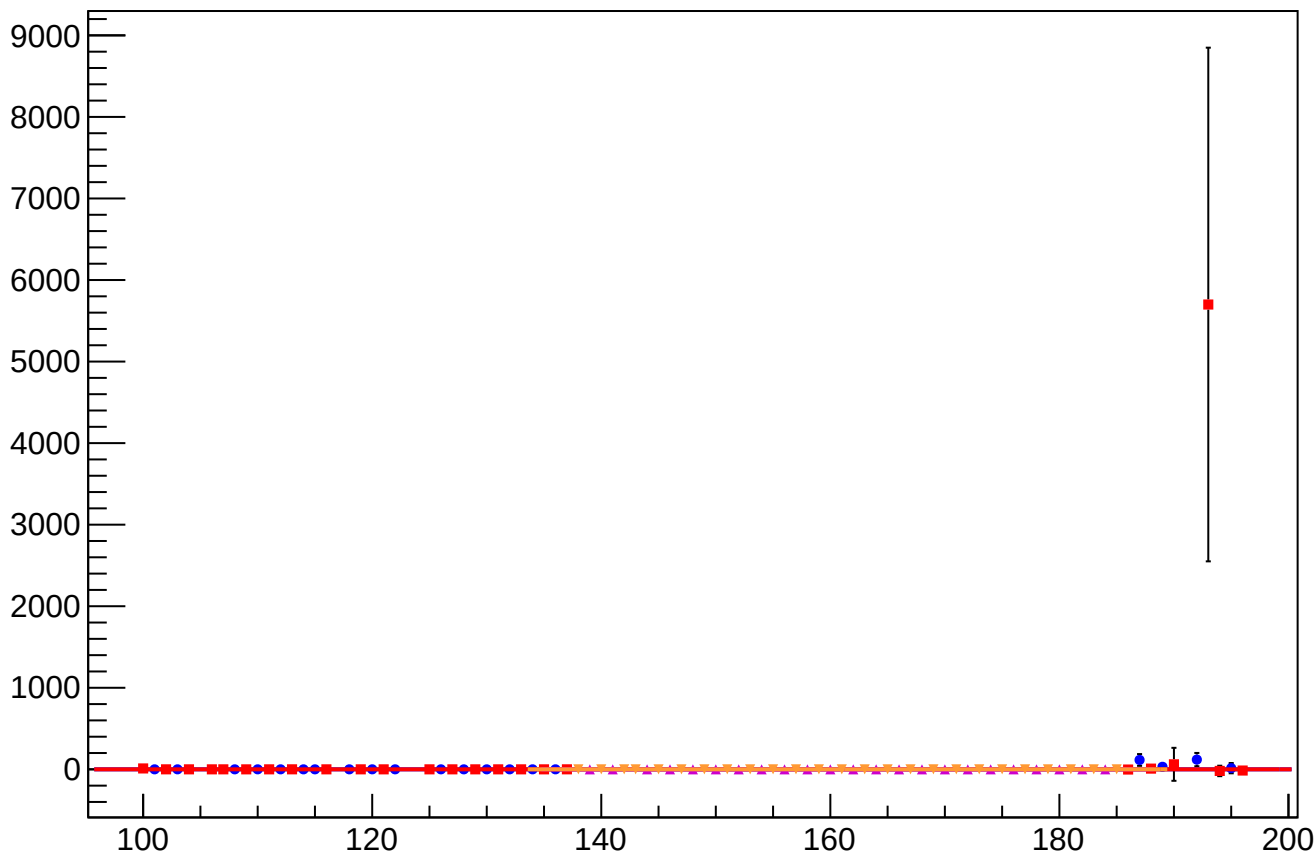
Right In: 0.295 $\pm$ 0.020 χ^2 /NDF: 9192.3/19
 Left Out: -0.728 $\pm$ 0.008 χ^2 /NDF:56403.8/24
 Right Out: -0.916 $\pm$ 0.020 χ^2 /NDF: 92263.0/23
 Left In: -0.644 $\pm$ 0.008 χ^2 /NDF:44169.2/22

Left: -0.686 $\pm$ 0.005 χ^2 /NDF: 100633.3/47
 Right: -0.328 $\pm$ 0.014 χ^2 /NDF: 103304.1/43
 In: -0.526 $\pm$ 0.007 χ^2 /NDF:55248.6/42
 Out: -0.753 $\pm$ 0.007 χ^2 /NDF:148746.6/48
 All: -0.640 $\pm$ 0.005 χ^2 /NDF: 204500.2/91

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 17.7/19

Left Out: -0.071 ± 0.014 χ^2/NDF : 28.3/24

Right Out: -0.088 ± 0.025 χ^2/NDF : 16.6/23

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.067 ± 0.010 χ^2/NDF : 69.5/47

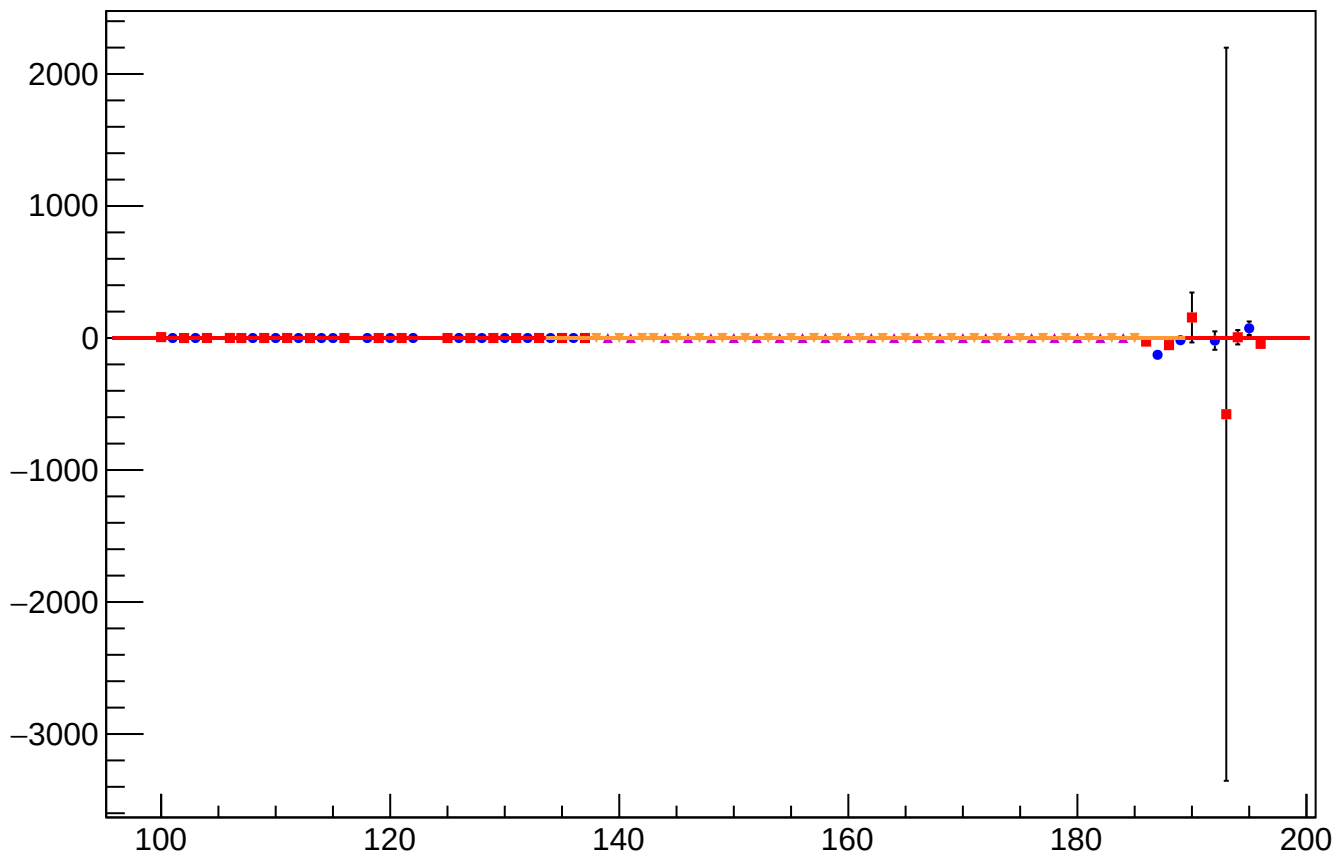
Right: -0.049 ± 0.017 χ^2/NDF : 39.0/43

In: -0.050 ± 0.012 χ^2/NDF : 62.2/42

Out: -0.075 ± 0.012 χ^2/NDF : 45.2/48

All: -0.063 ± 0.009 χ^2/NDF : 109.4/91

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 24.1/19

Left Out: 0.033+/-0.018 χ^2/NDF :32.6/24

Right Out: 0.031+/-0.045 χ^2/NDF : 29.3/23

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.2/47

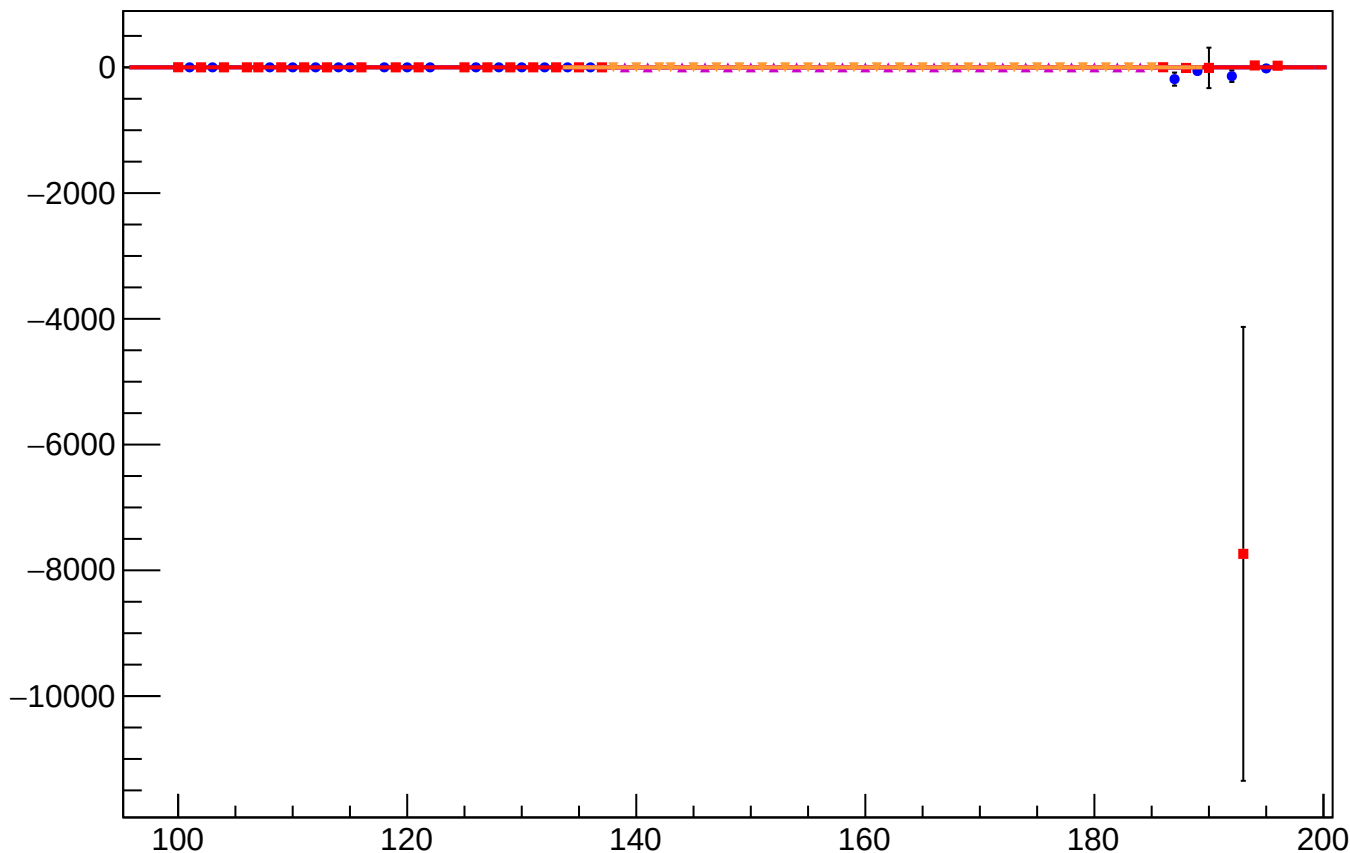
Right: 0.023+/-0.031 χ^2/NDF : 53.4/43

In: -0.005+/-0.017 χ^2/NDF :61.2/42

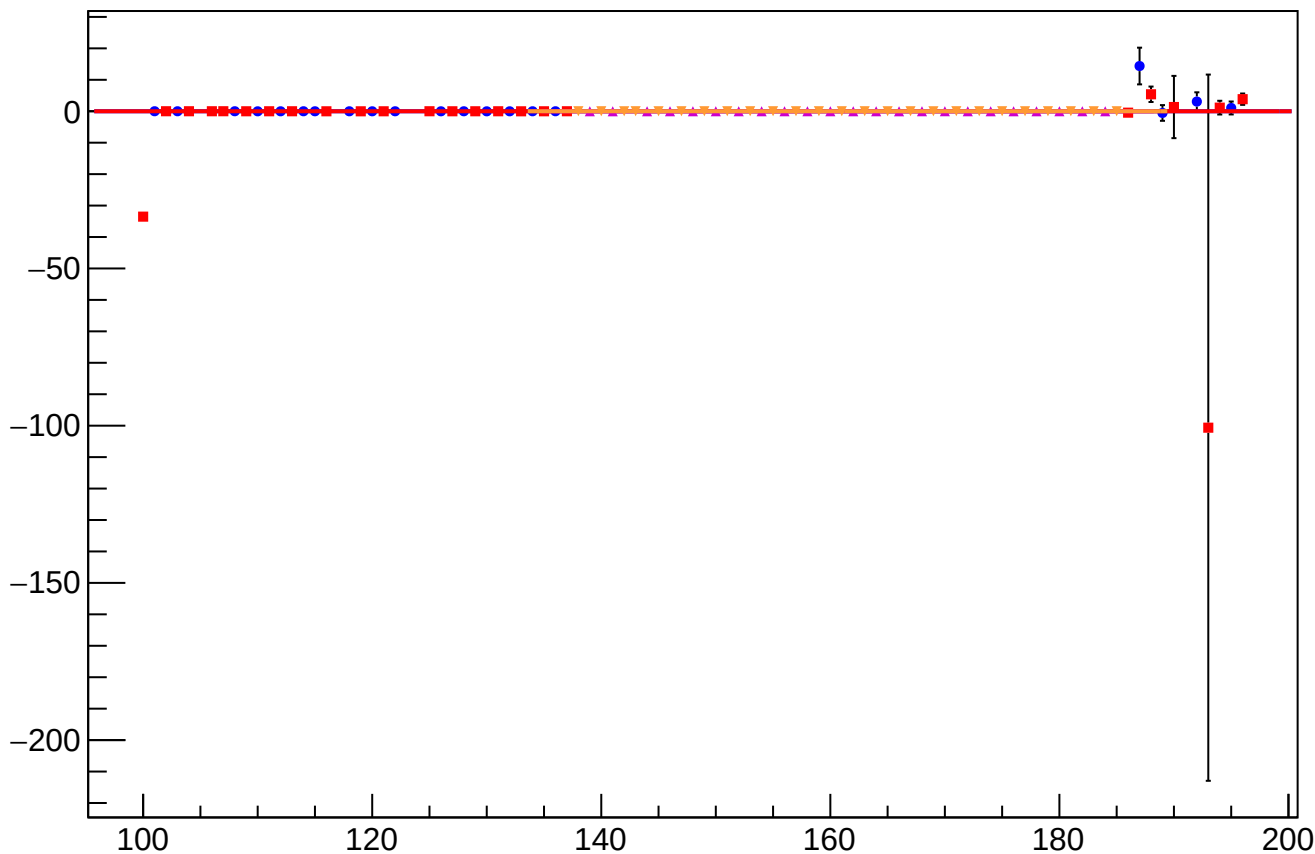
Out: 0.033+/-0.016 χ^2/NDF :61.8/48

All: 0.014+/-0.012 χ^2/NDF : 125.7/91

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 29.0/19

Left Out: 0.001 ± 0.001 χ^2/NDF : 26.1/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 26519.5/23

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 48.6/47

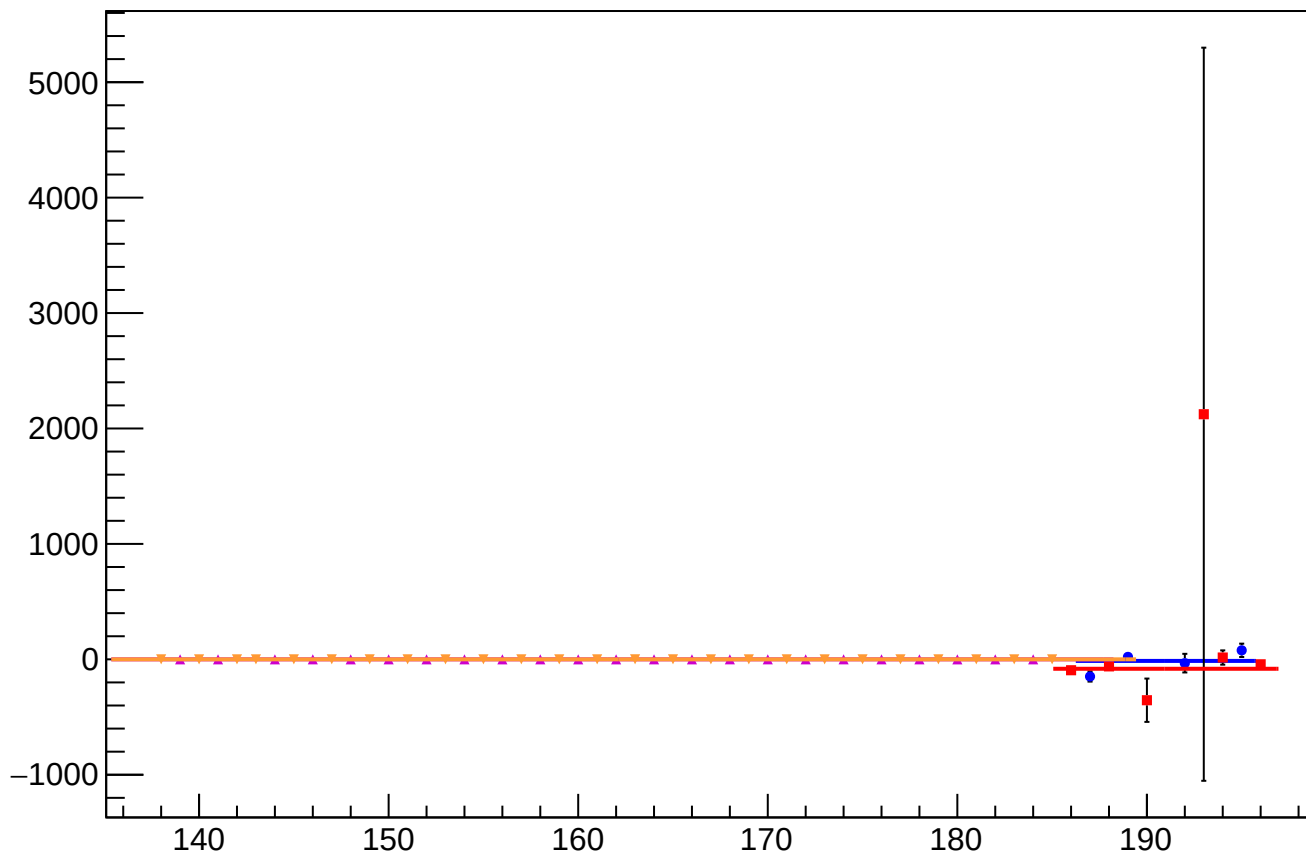
Right: -0.006 ± 0.001 χ^2/NDF : 26548.6/43

In: -0.001 ± 0.001 χ^2/NDF : 63.0/42

Out: -0.001 ± 0.001 χ^2/NDF : 26561.8/48

All: -0.001 ± 0.000 χ^2/NDF : 26624.9/91

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.695 ± 21.141 $\chi^2/\text{NDF}: 13.4/3$

Left Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 41.7/24$

Right Out: -81.776 ± 10.013 $\chi^2/\text{NDF}: 8.0/5$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.034 ± 0.013 $\chi^2/\text{NDF}: 80.7/47$

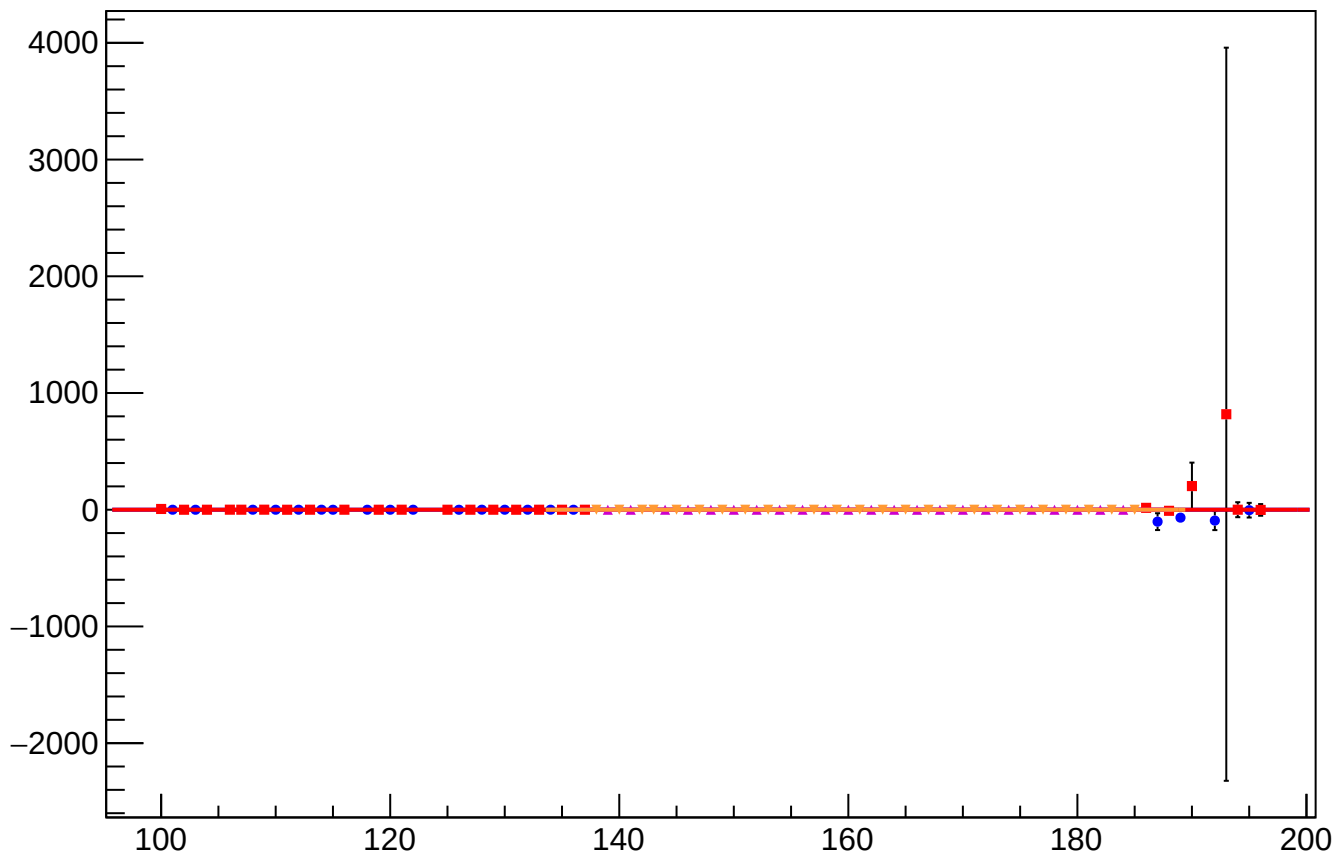
Right: -69.301 ± 9.050 $\chi^2/\text{NDF}: 29.9/9$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 49.0/26$

Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 116.3/30$

All: -0.035 ± 0.013 $\chi^2/\text{NDF}: 169.2/57$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 33.0/19

Left Out: -0.010+/-0.014 χ^2/NDF : 29.7/24

Right Out: 0.037+/-0.025 χ^2/NDF : 31.0/23

Left In: 0.005+/-0.014 χ^2/NDF : 49.6/22

Left: -0.003+/-0.010 χ^2/NDF : 79.8/47

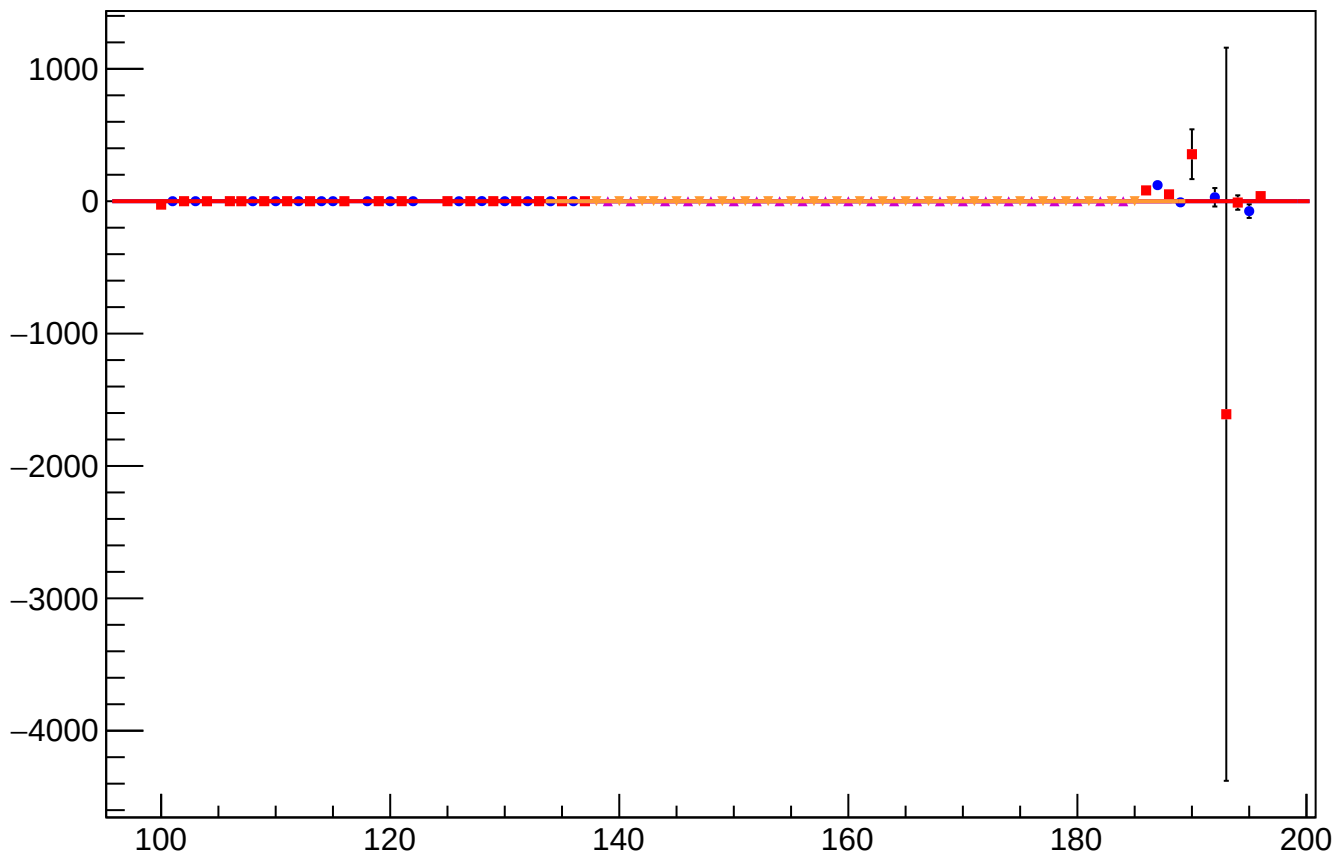
Right: 0.021+/-0.017 χ^2/NDF : 64.8/43

In: 0.006+/-0.012 χ^2/NDF : 82.6/42

Out: 0.001+/-0.012 χ^2/NDF : 63.4/48

All: 0.003+/-0.009 χ^2/NDF : 146.0/91

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 43.4/19

Left Out: 0.055+/-0.018 χ^2/NDF :41.0/24

Right Out: 0.197+/-0.045 χ^2/NDF : 107.0/23

Left In: 0.020+/-0.018 χ^2/NDF :35.8/22

Left: 0.038+/-0.013 χ^2/NDF : 78.7/47

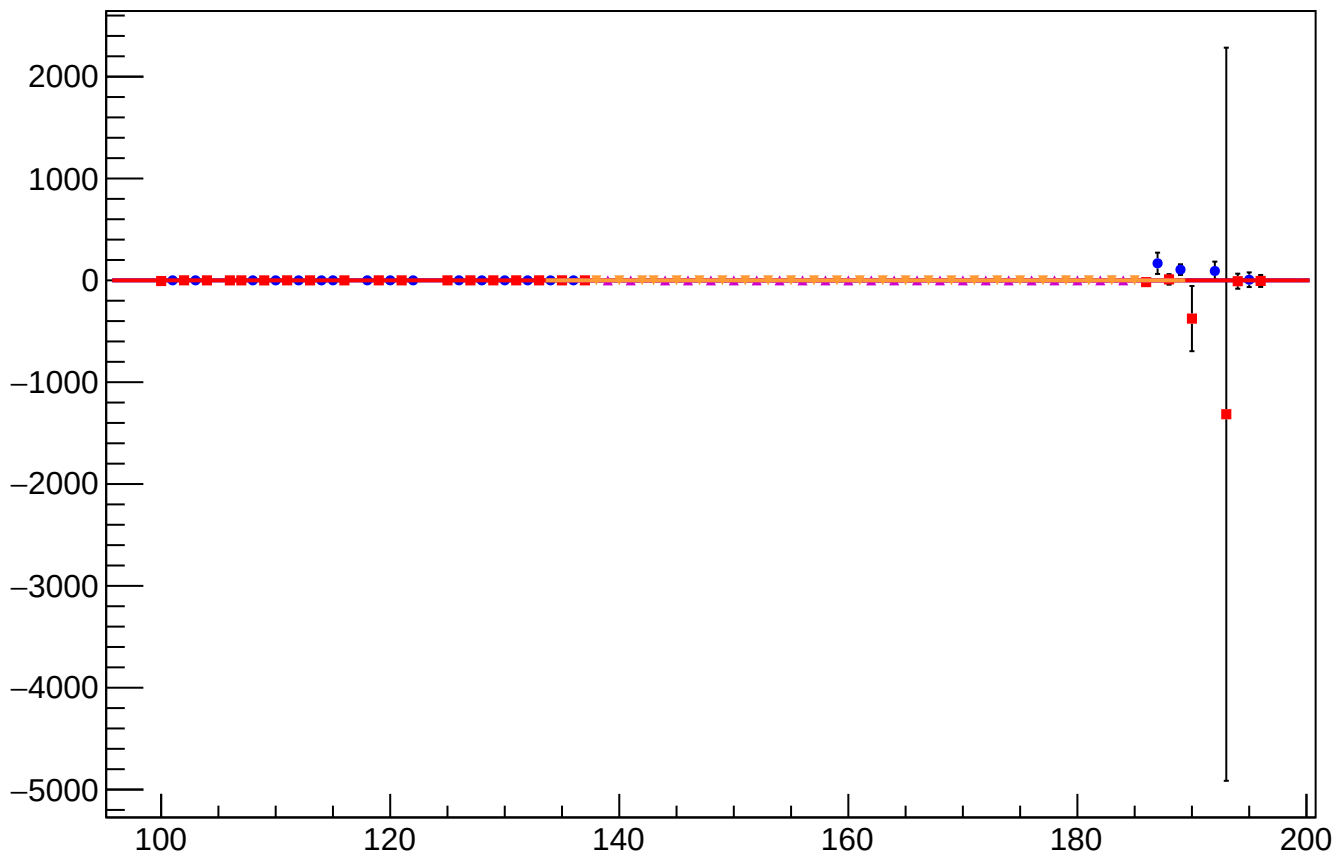
Right: 0.176+/-0.031 χ^2/NDF : 150.9/43

In: 0.040+/-0.017 χ^2/NDF :87.8/42

Out: 0.074+/-0.016 χ^2/NDF :156.6/48

All: 0.057+/-0.012 χ^2/NDF : 246.5/91

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 32.3/19

Left Out: 0.021 ± 0.016 χ^2/NDF : 33.4/24

Right Out: -0.046 ± 0.029 χ^2/NDF : 28.5/23

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 84.0/47

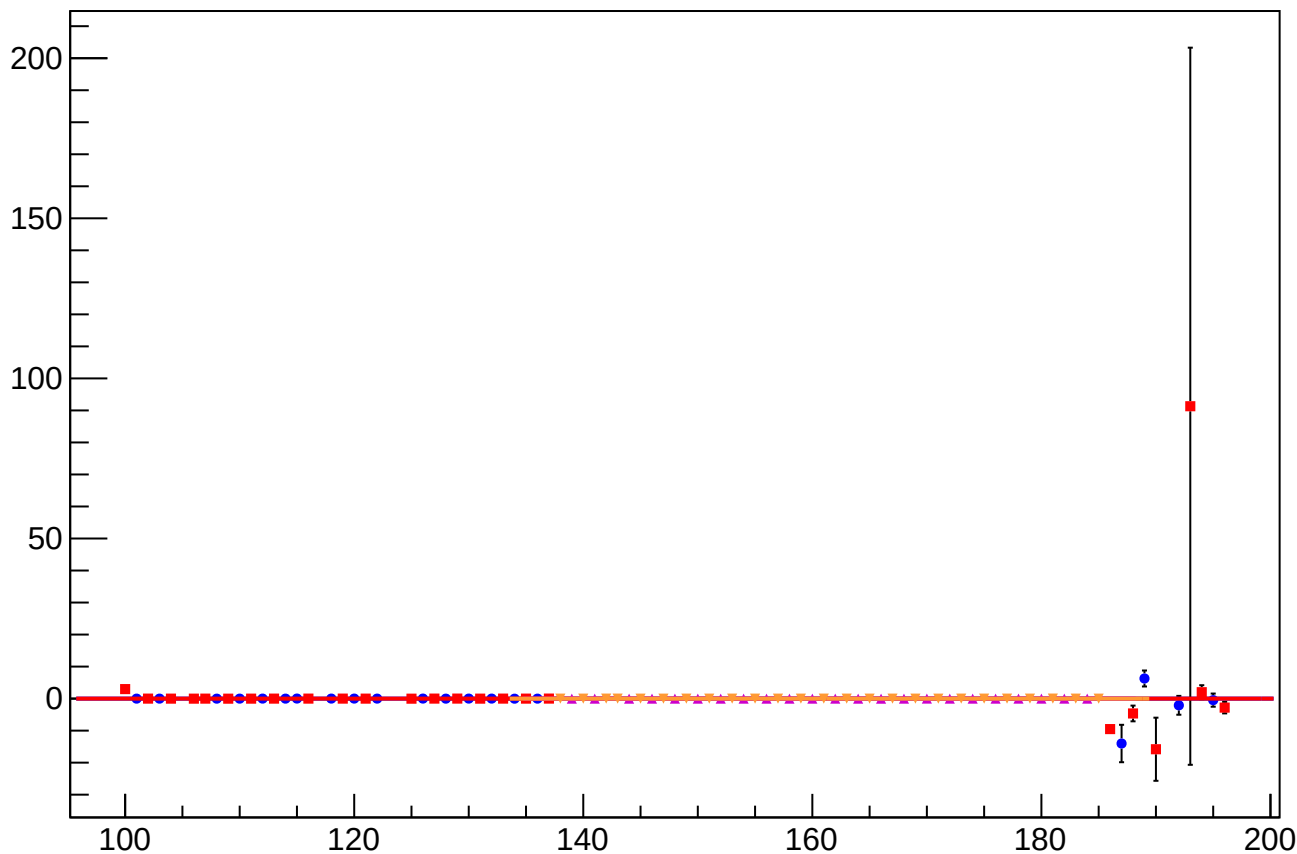
Right: -0.027 ± 0.020 χ^2/NDF : 61.5/43

In: 0.002 ± 0.014 χ^2/NDF : 82.6/42

Out: 0.005 ± 0.014 χ^2/NDF : 66.1/48

All: 0.003 ± 0.010 χ^2/NDF : 148.8/91

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 40.1/19

Left Out: -0.008+/-0.001 χ^2/NDF : 32.7/24

Right Out: -0.006+/-0.001 χ^2/NDF : 212.9/23

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 70.3/47

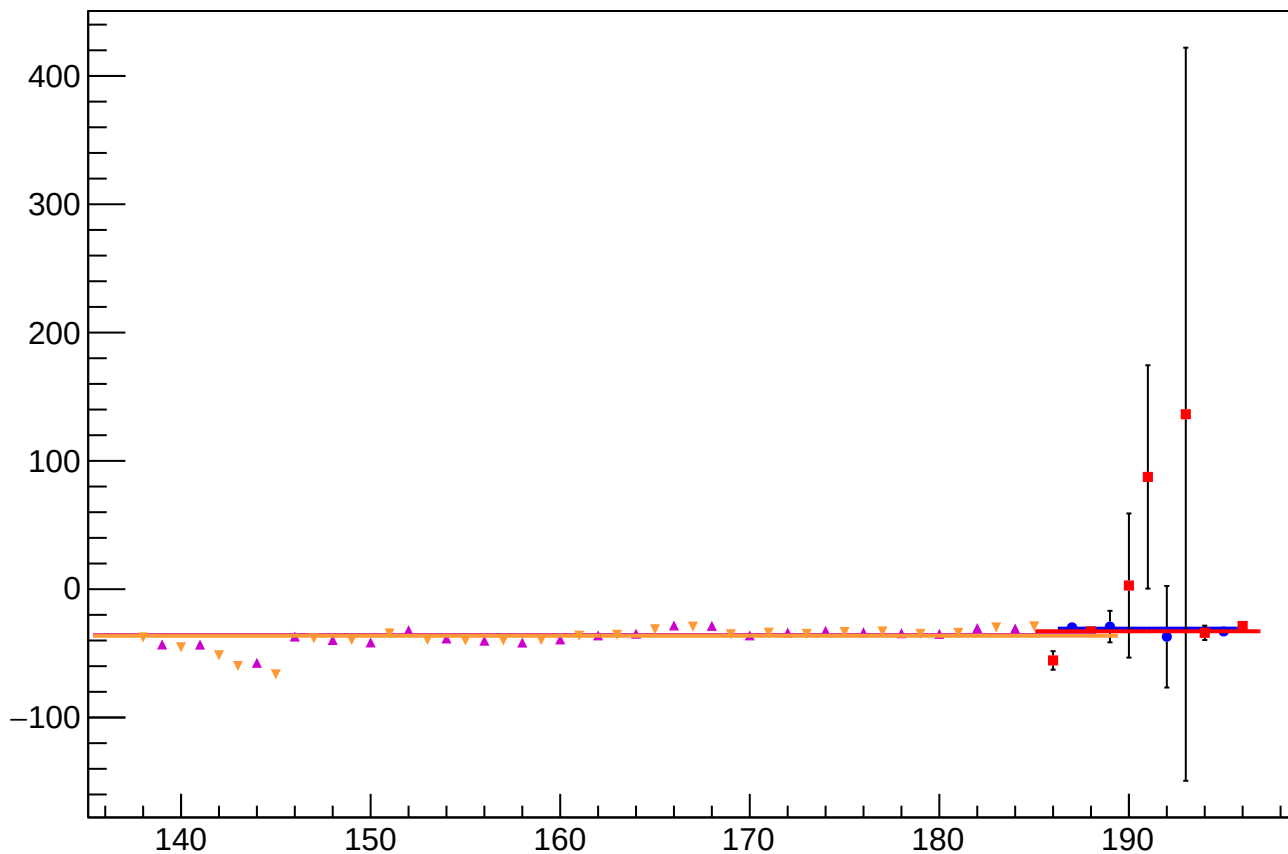
Right: -0.006+/-0.001 χ^2/NDF : 253.1/43

In: -0.008+/-0.001 χ^2/NDF : 79.9/42

Out: -0.008+/-0.001 χ^2/NDF : 247.5/48

All: -0.008+/-0.000 χ^2/NDF : 327.7/91

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.760 $\pm$ 1.533 χ^2 /NDF: 1.0/3

Left Out: -36.243 $\pm$ 0.191 χ^2 /NDF:1193.9/24

Right Out: -32.789 $\pm$ 1.059 χ^2 /NDF: 14.7/6

Left In: -35.779 $\pm$ 0.191 χ^2 /NDF:854.1/22

Left: -36.011 $\pm$ 0.135 χ^2 /NDF: 2050.9/47

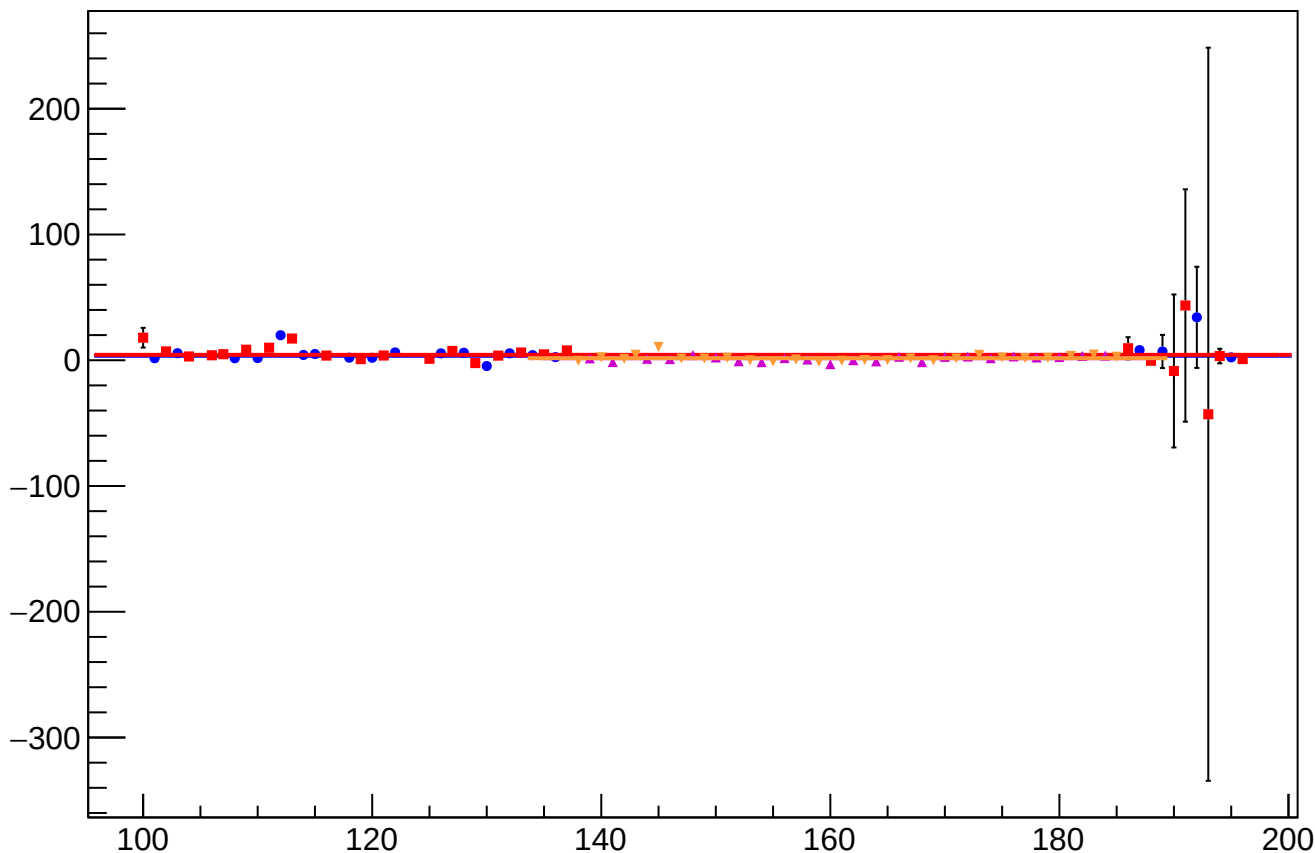
Right: -32.133 $\pm$ 0.871 χ^2 /NDF: 16.8/10

In: -35.702 $\pm$ 0.190 χ^2 /NDF:865.6/26

Out: -36.134 $\pm$ 0.188 χ^2 /NDF:1218.9/31

All: -35.920 $\pm$ 0.134 χ^2 /NDF: 2087.1/58

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.572 $\pm$ 0.220 χ^2 /NDF: 442.9/19

Left Out: 1.652 $\pm$ 0.147 χ^2 /NDF:168.8/24

Right Out: 4.293 $\pm$ 0.223 χ^2 /NDF: 361.2/24

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.647 $\pm$ 0.105 χ^2 /NDF: 332.0/47

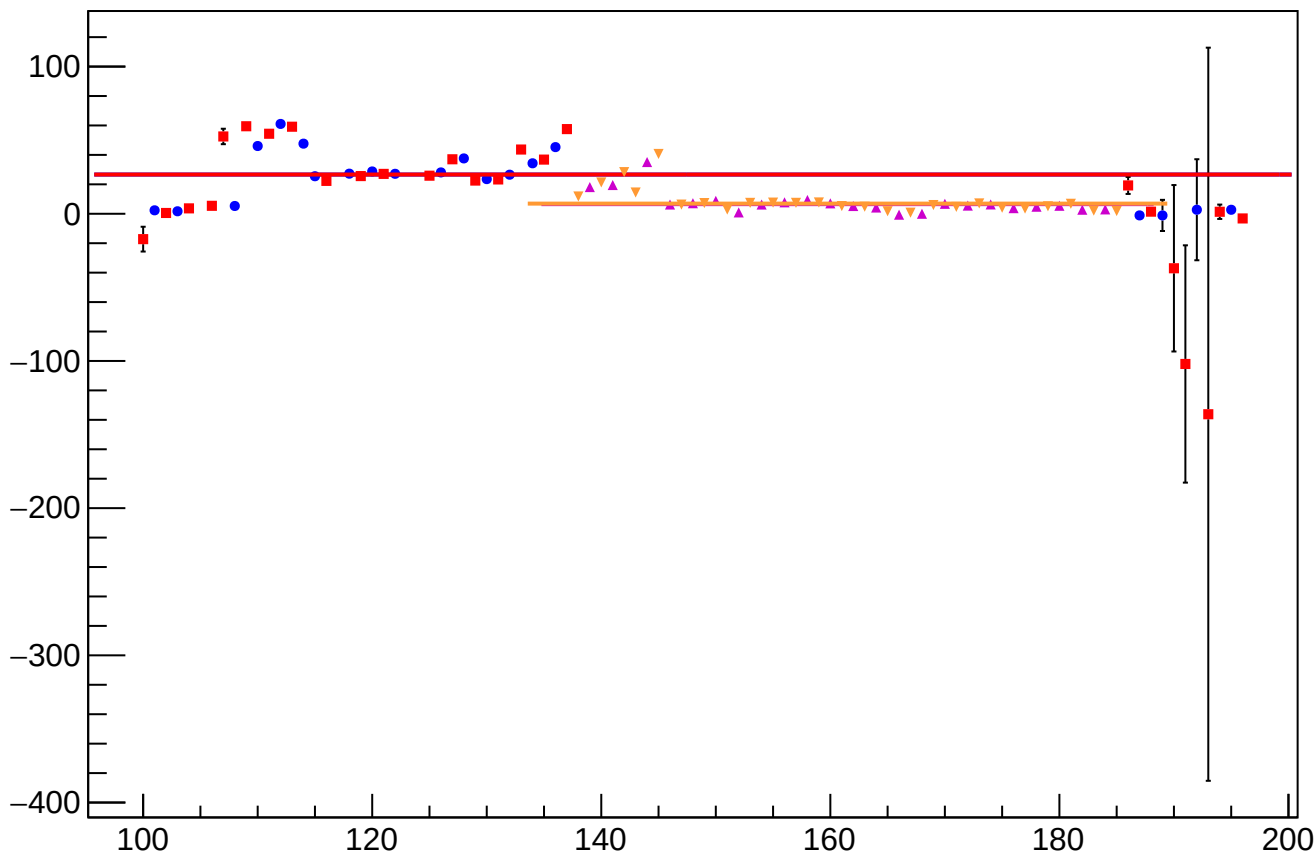
Right: 3.927 $\pm$ 0.156 χ^2 /NDF: 809.4/44

In: 2.253 $\pm$ 0.124 χ^2 /NDF:659.0/42

Out: 2.455 $\pm$ 0.123 χ^2 /NDF:627.7/49

All: 2.354 $\pm$ 0.087 χ^2 /NDF: 1288.0/92

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 26.640 $\pm$ 0.399 χ^2 /NDF: 1967.8/19

Left Out: 6.900 $\pm$ 0.191 χ^2 /NDF:1302.8/24

Right Out: 26.656 $\pm$ 0.380 χ^2 /NDF: 2755.5/24

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.718 $\pm$ 0.135 χ^2 /NDF: 2329.7/47

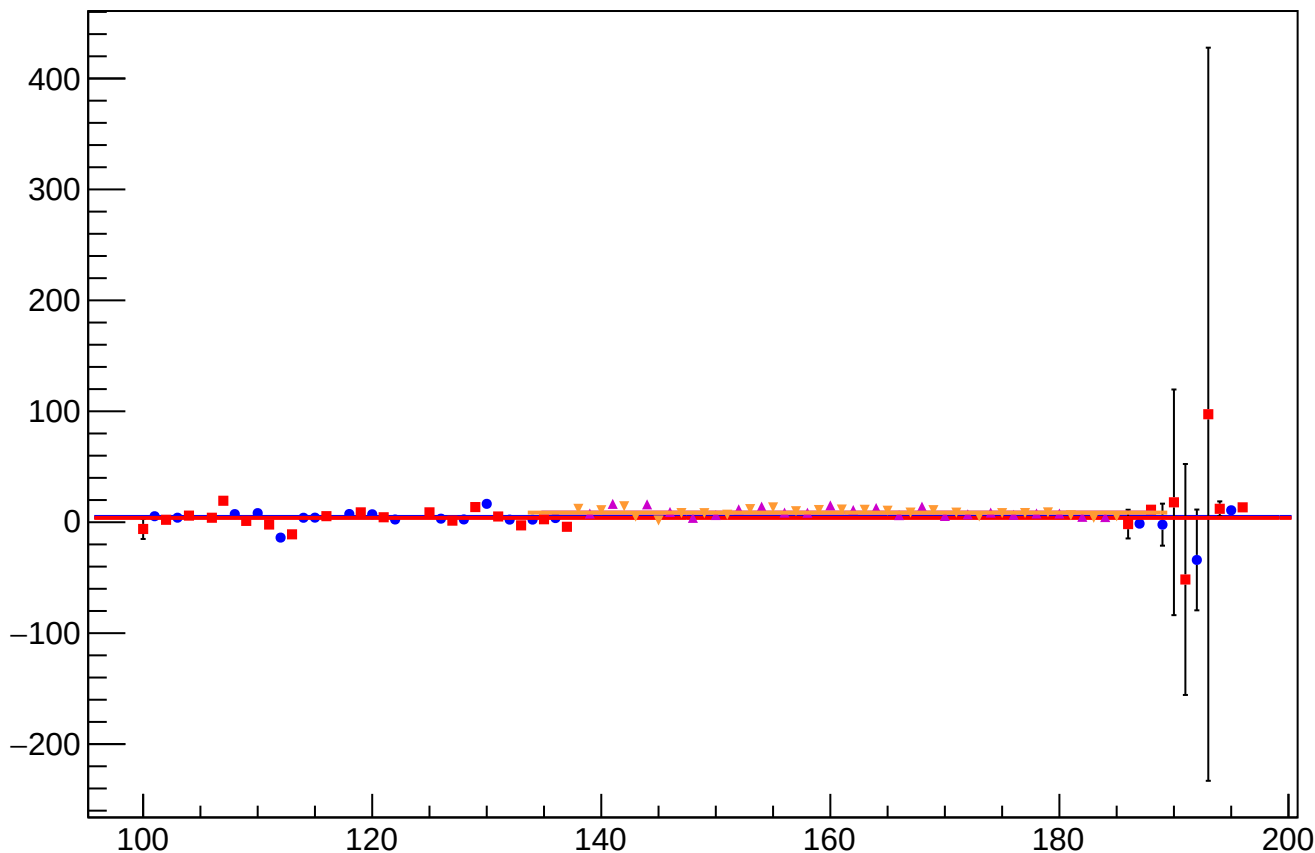
Right: 26.648 $\pm$ 0.275 χ^2 /NDF: 4723.3/44

In: 10.257 $\pm$ 0.172 χ^2 /NDF:5056.6/42

Out: 10.879 $\pm$ 0.171 χ^2 /NDF:6214.2/49

All: 10.570 $\pm$ 0.121 χ^2 /NDF: 11277.3/92

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.756+/-0.253 χ^2/NDF : 551.9/19

Left Out: 8.674+/-0.168 χ^2/NDF :243.7/24

Right Out: 3.907+/-0.257 χ^2/NDF : 580.3/24

Left In: 8.668+/-0.170 χ^2/NDF :436.7/22

Left: 8.671+/-0.120 χ^2/NDF : 680.4/47

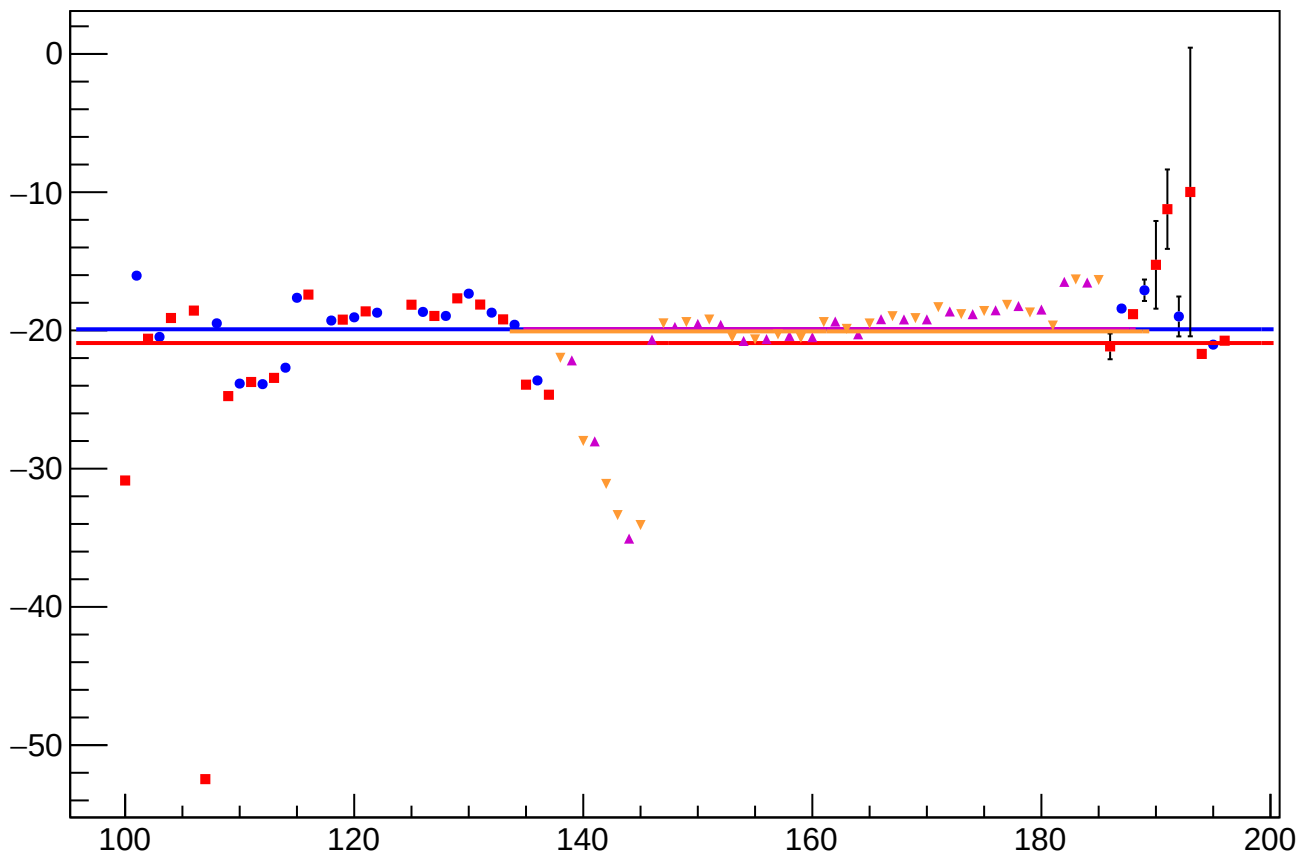
Right: 4.337+/-0.180 χ^2/NDF : 1137.8/44

In: 7.453+/-0.141 χ^2/NDF :1152.9/42

Out: 7.241+/-0.141 χ^2/NDF :1064.6/49

All: 7.346+/-0.100 χ^2/NDF : 2218.6/92

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.917 $\pm$ 0.015 χ^2 /NDF: 26172.4/19

Left Out: -20.069 $\pm$ 0.008 χ^2 /NDF:185373.7/24

Right Out: -20.912 $\pm$ 0.015 χ^2 /NDF: 94235.7/24

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF:144191.9/22

Left: -19.983 $\pm$ 0.006 χ^2 /NDF: 329802.7/47

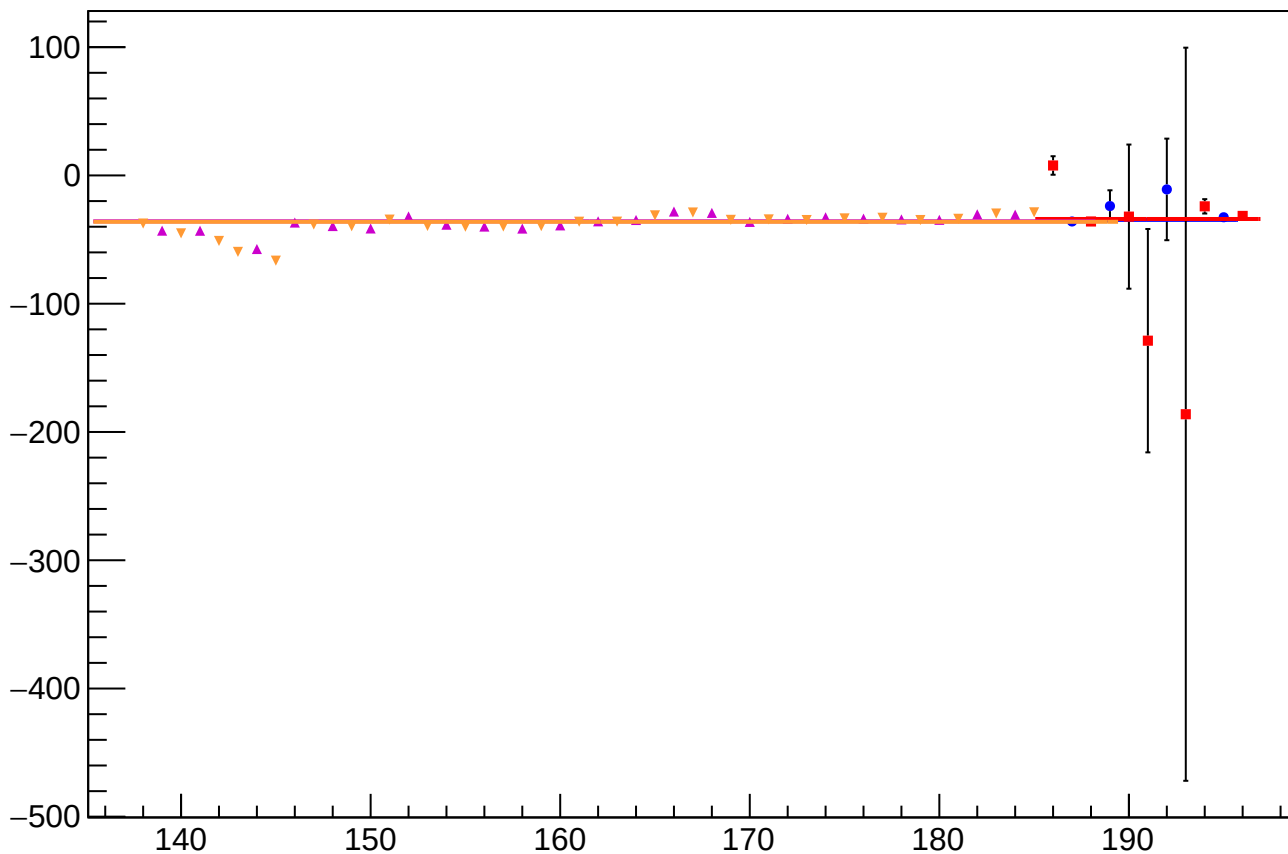
Right: -20.415 $\pm$ 0.011 χ^2 /NDF: 122478.4/44

In: -19.902 $\pm$ 0.007 χ^2 /NDF:170365.5/42

Out: -20.243 $\pm$ 0.007 χ^2 /NDF:281970.5/49

All: -20.072 $\pm$ 0.005 χ^2 /NDF: 453519.7/92

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.646 $\pm$ 1.538 χ^2 /NDF: 2.1/3

Left Out: -36.152 $\pm$ 0.191 χ^2 /NDF:1199.2/24

Right Out: -33.959 $\pm$ 1.062 χ^2 /NDF: 41.4/6

Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.959 $\pm$ 0.135 χ^2 /NDF: 2043.8/47

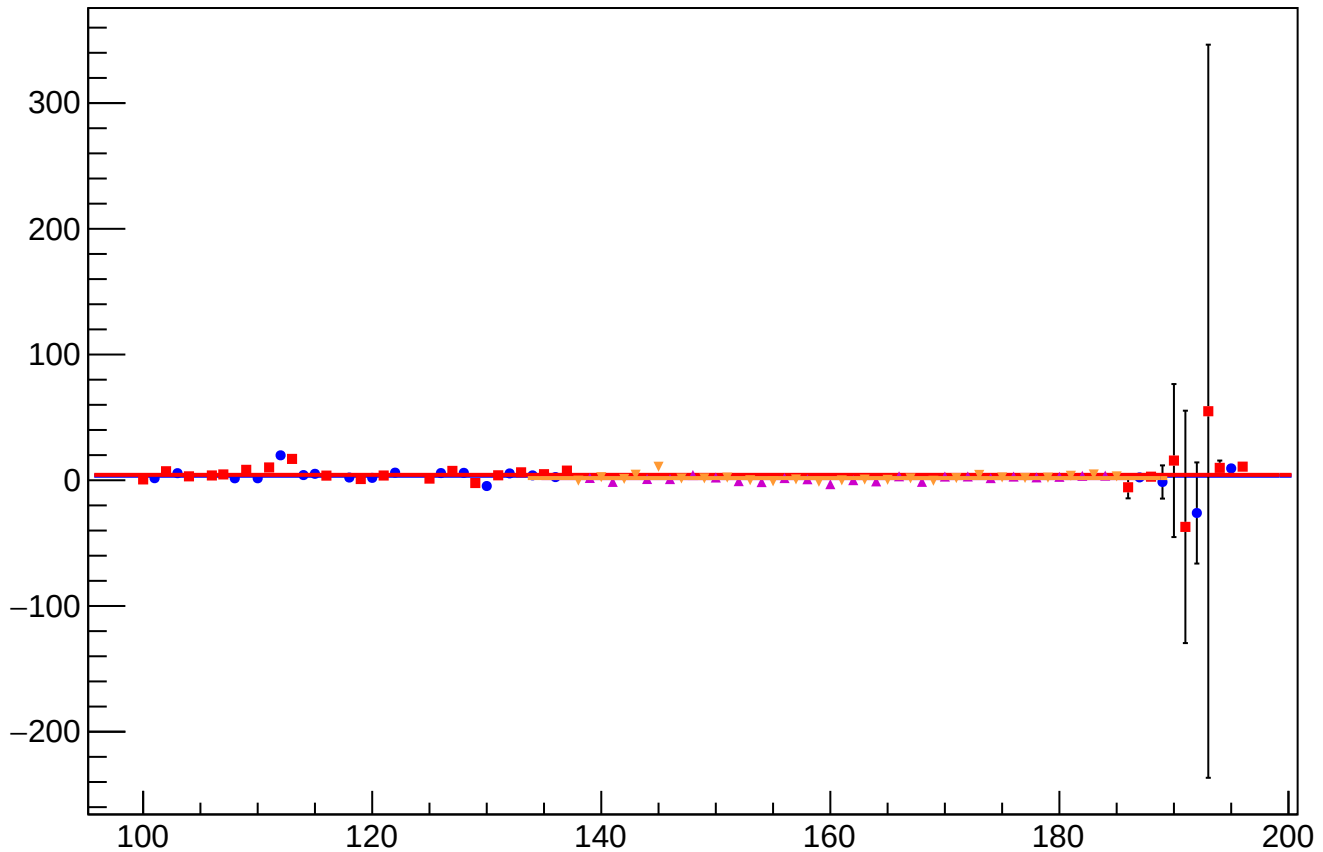
Right: -34.180 $\pm$ 0.874 χ^2 /NDF: 43.7/10

In: -35.749 $\pm$ 0.190 χ^2 /NDF:845.2/26

Out: -36.083 $\pm$ 0.188 χ^2 /NDF:1244.8/31

All: -35.918 $\pm$ 0.134 χ^2 /NDF: 2091.6/58

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.577 $\pm$ 0.219 χ^2 /NDF: 441.3/19

Left Out: 1.741 $\pm$ 0.147 χ^2 /NDF:170.2/24

Right Out: 4.319 $\pm$ 0.219 χ^2 /NDF: 359.2/24

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.723 $\pm$ 0.105 χ^2 /NDF: 333.2/47

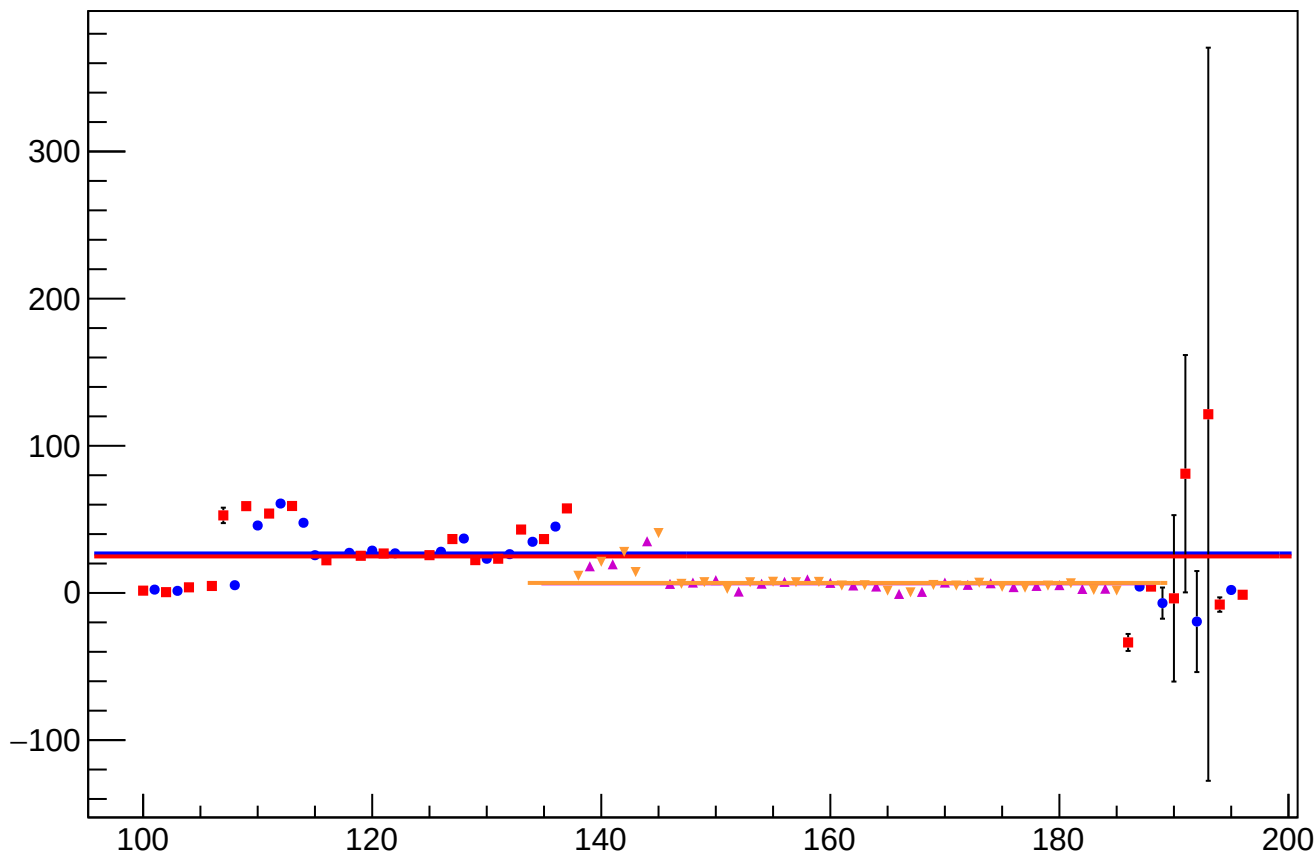
Right: 3.949 $\pm$ 0.155 χ^2 /NDF: 806.2/44

In: 2.298 $\pm$ 0.124 χ^2 /NDF:654.0/42

Out: 2.542 $\pm$ 0.122 χ^2 /NDF:624.8/49

All: 2.422 $\pm$ 0.087 χ^2 /NDF: 1280.8/92

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 26.837 $\pm$ 0.399 χ^2 /NDF: 1849.3/19

Left Out: 6.813 $\pm$ 0.191 χ^2 /NDF:1304.5/24

Right Out: 24.822 $\pm$ 0.365 χ^2 /NDF: 2998.8/24

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.672 $\pm$ 0.135 χ^2 /NDF: 2323.7/47

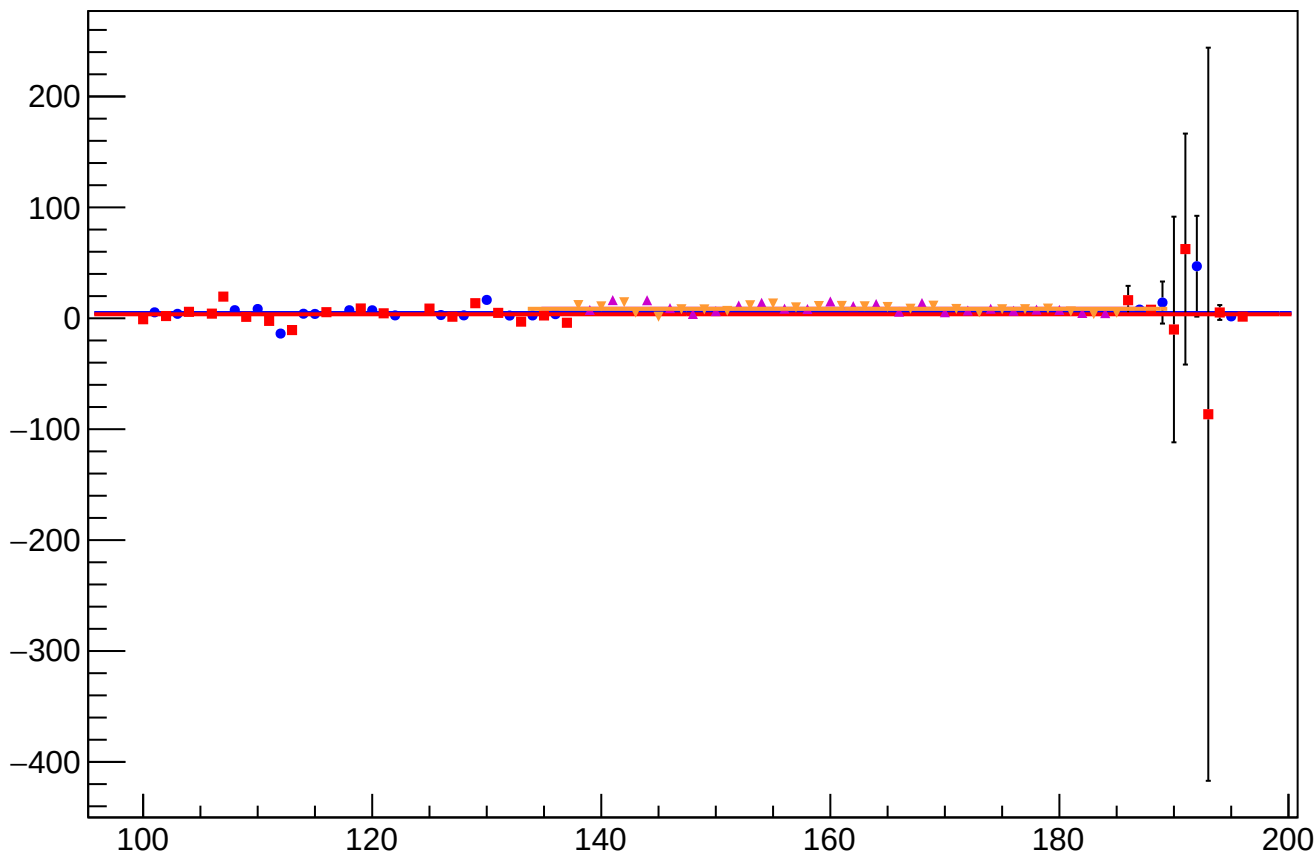
Right: 25.740 $\pm$ 0.270 χ^2 /NDF: 4862.0/44

In: 10.289 $\pm$ 0.172 χ^2 /NDF:4974.3/42

Out: 10.673 $\pm$ 0.169 χ^2 /NDF:6212.0/49

All: 10.484 $\pm$ 0.121 χ^2 /NDF: 11188.9/92

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.748 $\pm$ 0.253 χ^2 /NDF: 545.3/19

Left Out: 8.565 $\pm$ 0.168 χ^2 /NDF: 248.1/24

Right Out: 3.605 $\pm$ 0.253 χ^2 /NDF: 574.3/24

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF: 441.8/22

Left: 8.575 $\pm$ 0.120 χ^2 /NDF: 689.9/47

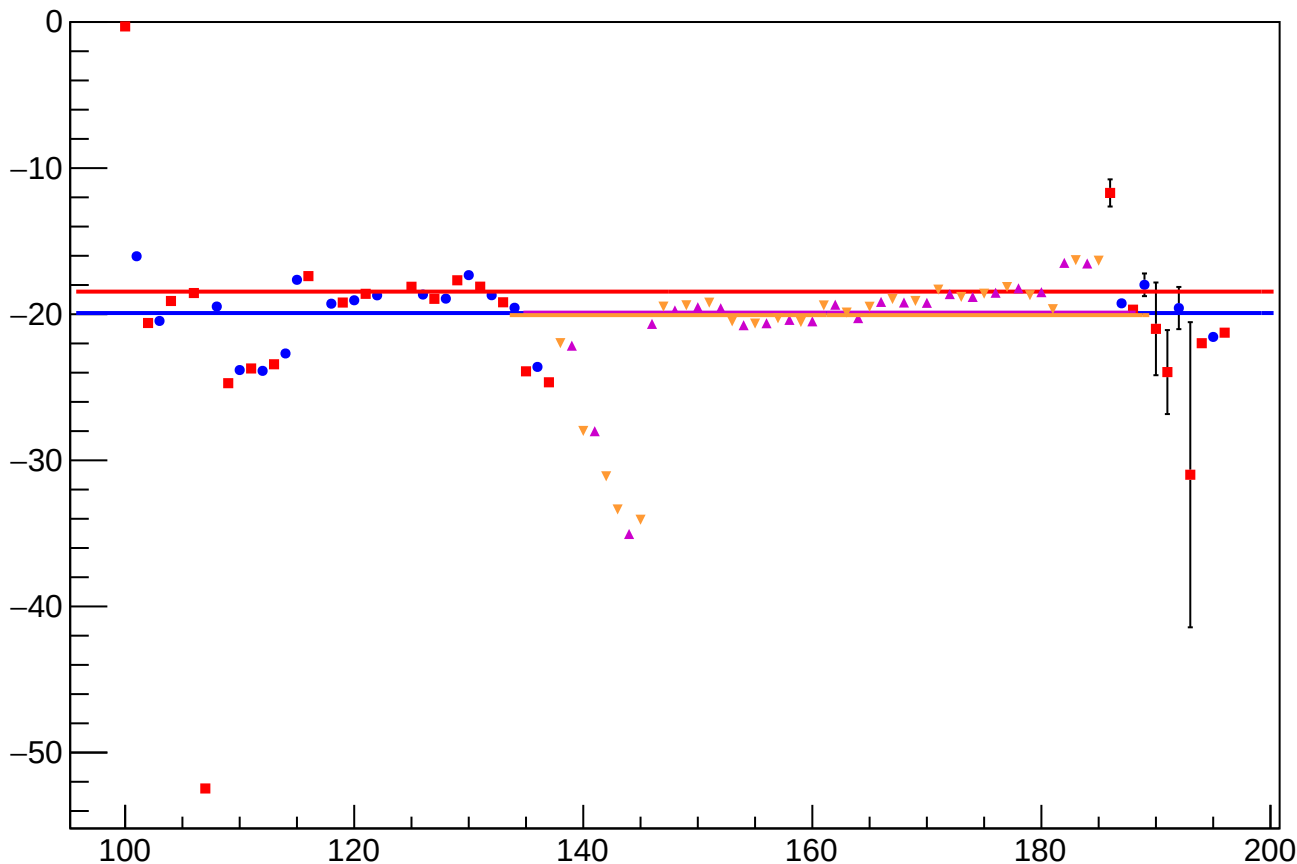
Right: 4.175 $\pm$ 0.179 χ^2 /NDF: 1129.8/44

In: 7.393 $\pm$ 0.141 χ^2 /NDF: 1145.3/42

Out: 7.040 $\pm$ 0.140 χ^2 /NDF: 1089.0/49

All: 7.215 $\pm$ 0.099 χ^2 /NDF: 2237.4/92

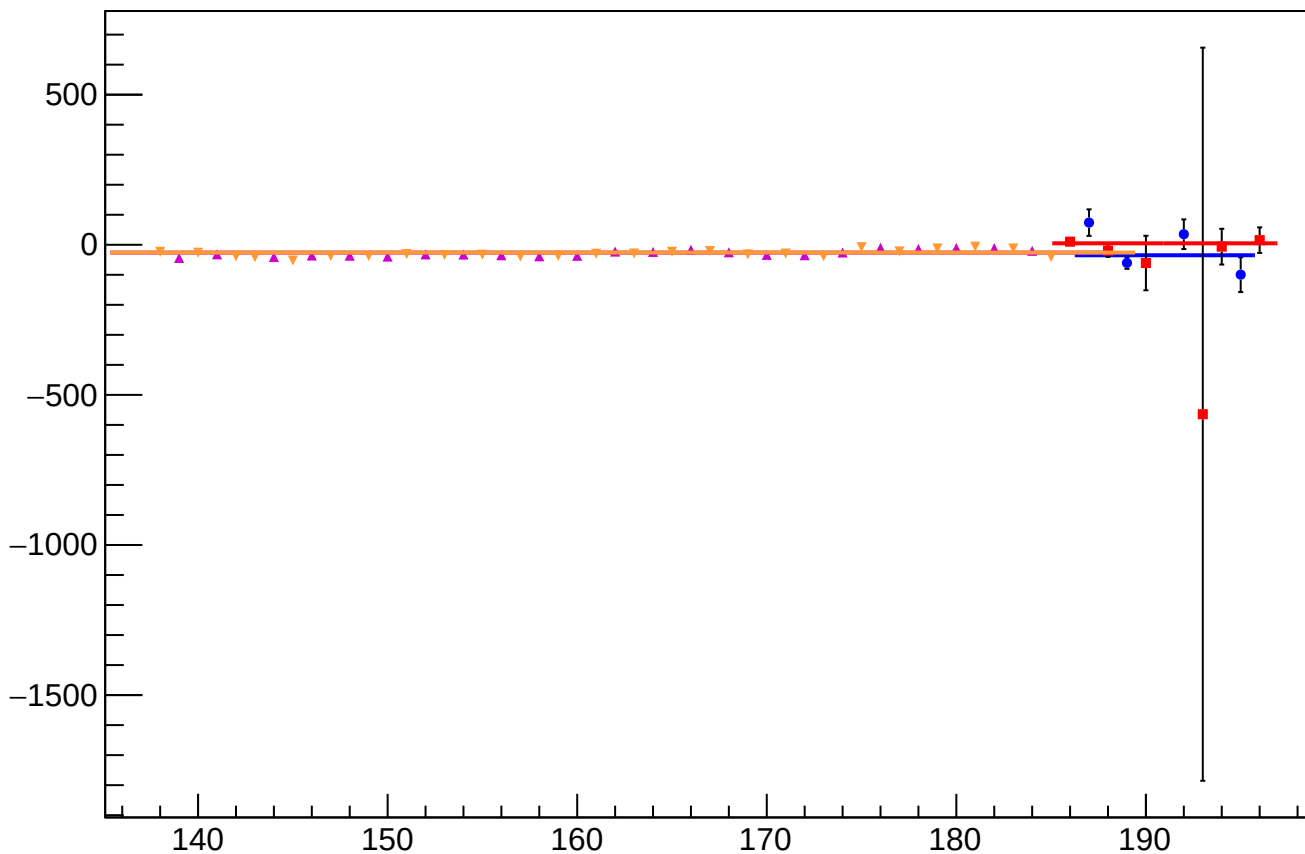
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.919 ± 0.015 $\chi^2/\text{NDF}: 26244.2/19$
 Left Out: -20.061 ± 0.008 $\chi^2/\text{NDF}: 185580.2/24$
 Right Out: -18.452 ± 0.015 $\chi^2/\text{NDF}: 302035.2/24$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.976 ± 0.006 $\chi^2/\text{NDF}: 329872.6/47$
 Right: -19.140 ± 0.011 $\chi^2/\text{NDF}: 333052.3/44$
 In: -19.896 ± 0.007 $\chi^2/\text{NDF}: 170302.1/42$
 Out: -19.697 ± 0.007 $\chi^2/\text{NDF}: 497090.5/49$
 All: -19.795 ± 0.005 $\chi^2/\text{NDF}: 667803.7/92$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.874+/-16.280 χ^2 /NDF: 11.0/3

Left Out: -25.884+/-0.192 χ^2 /NDF: 4158.0/24

Right Out: 4.902+/-8.315 χ^2 /NDF: 2.5/5

Left In: -26.052+/-0.195 χ^2 /NDF: 3279.5/22

Left: -25.967+/-0.137 χ^2 /NDF: 7437.8/47

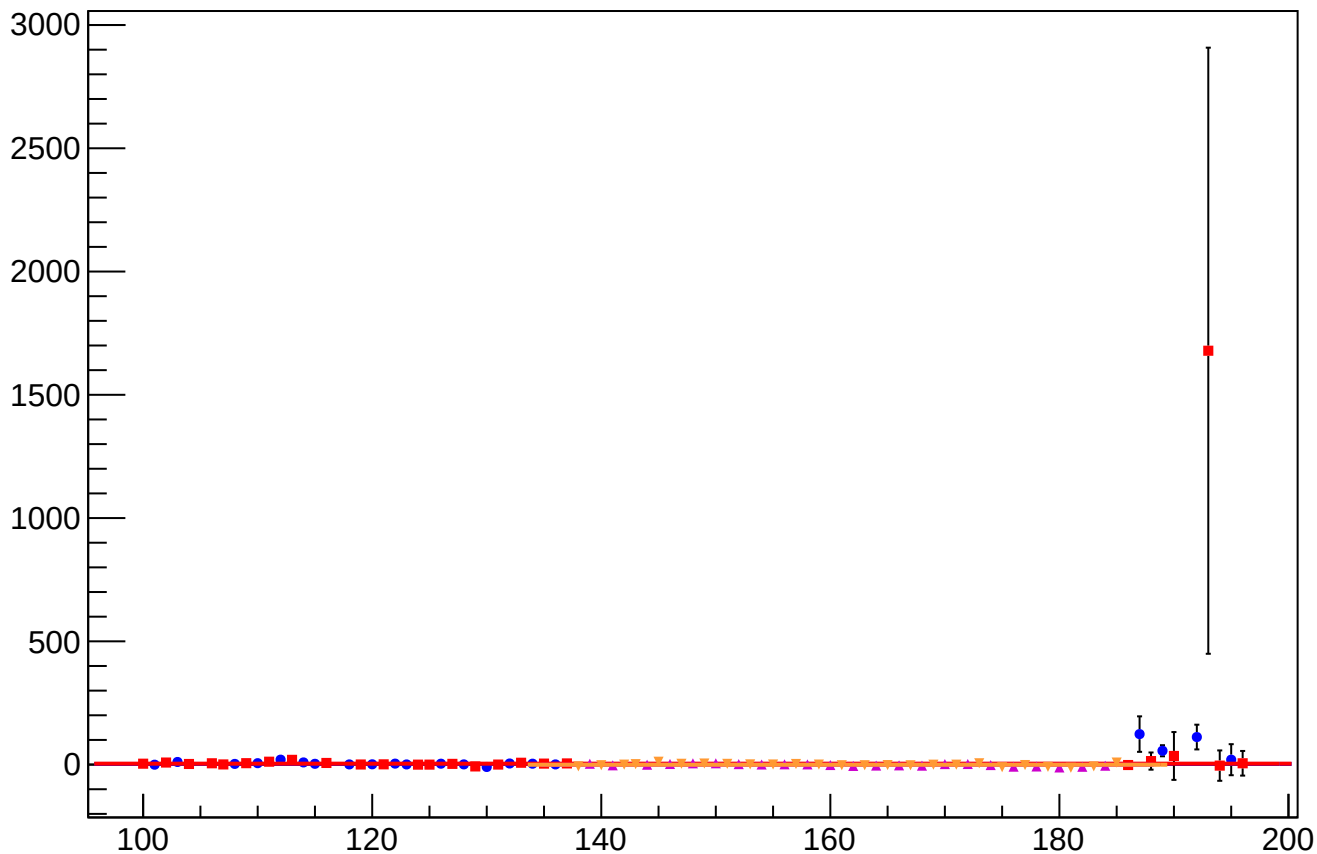
Right: -3.328+/-7.405 χ^2 /NDF: 18.3/9

In: -26.053+/-0.195 χ^2 /NDF: 3290.8/26

Out: -25.868+/-0.192 χ^2 /NDF: 4174.2/30

All: -25.959+/-0.137 χ^2 /NDF: 7465.4/57

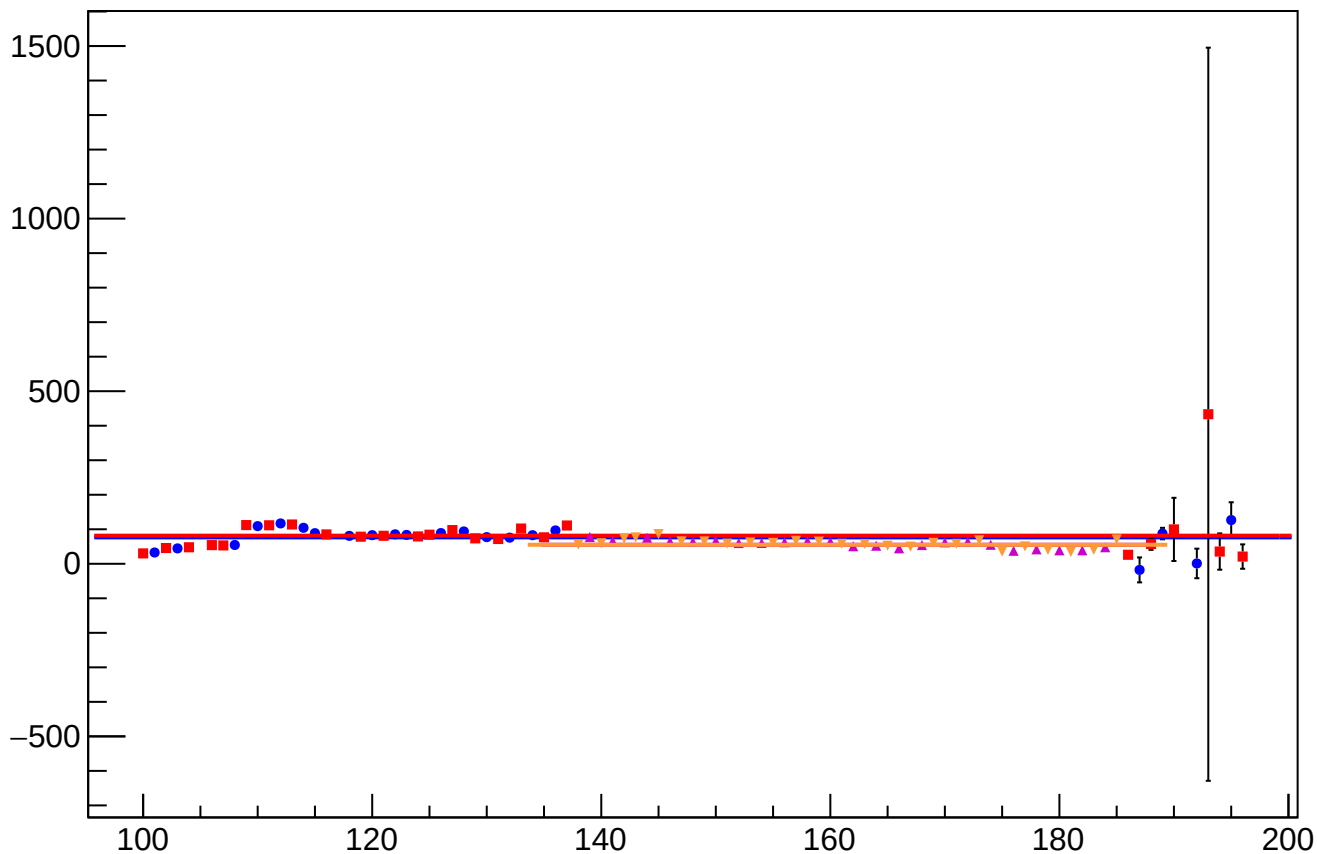
reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.472 ± 0.315 $\chi^2/\text{NDF}: 307.7/20$
 Left Out: -0.654 ± 0.146 $\chi^2/\text{NDF}: 1320.8/24$
 Right Out: 3.710 ± 0.327 $\chi^2/\text{NDF}: 271.4/24$
 Left In: -0.863 ± 0.150 $\chi^2/\text{NDF}: 1066.5/22$

Left: -0.756 ± 0.105 $\chi^2/\text{NDF}: 2388.3/47$
 Right: 3.068 ± 0.227 $\chi^2/\text{NDF}: 586.5/45$
 In: -0.243 ± 0.136 $\chi^2/\text{NDF}: 1465.6/43$
 Out: 0.074 ± 0.133 $\chi^2/\text{NDF}: 1741.0/49$
 All: -0.082 ± 0.095 $\chi^2/\text{NDF}: 3209.4/93$

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.536 $\pm$ 0.576 χ^2 /NDF: 2264.1/20

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.495 $\pm$ 0.591 χ^2 /NDF: 1630.5/24

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

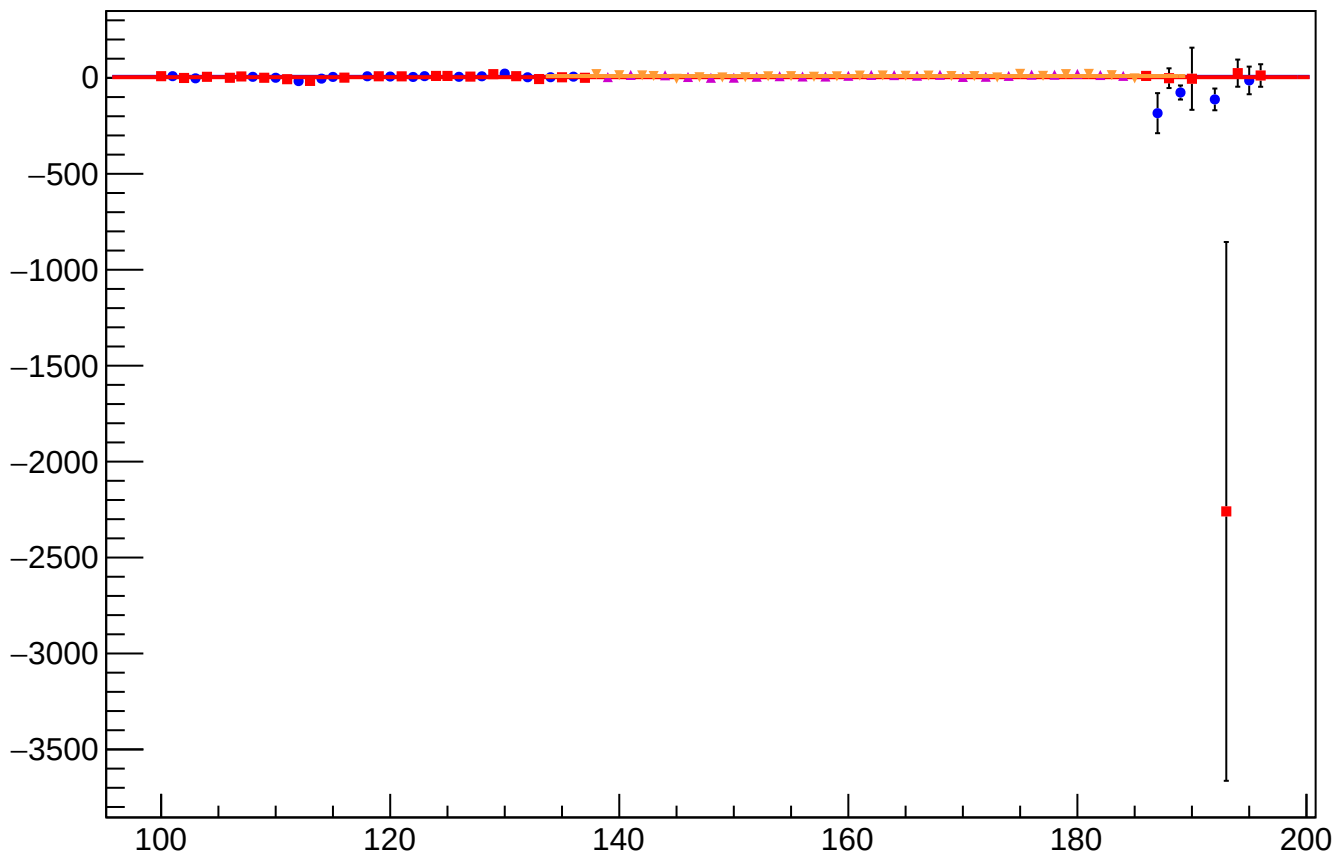
Right: 78.956 $\pm$ 0.412 χ^2 /NDF: 3930.6/45

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7213.4/43

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8017.6/49

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15233.0/93

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.413+/-0.361 χ^2/NDF : 398.3/20

Left Out: 9.737+/-0.168 χ^2/NDF :1450.2/24

Right Out: 3.586+/-0.375 χ^2/NDF : 424.5/24

Left In: 9.803+/-0.172 χ^2/NDF :1158.7/22

Left: 9.769+/-0.120 χ^2/NDF : 2609.0/47

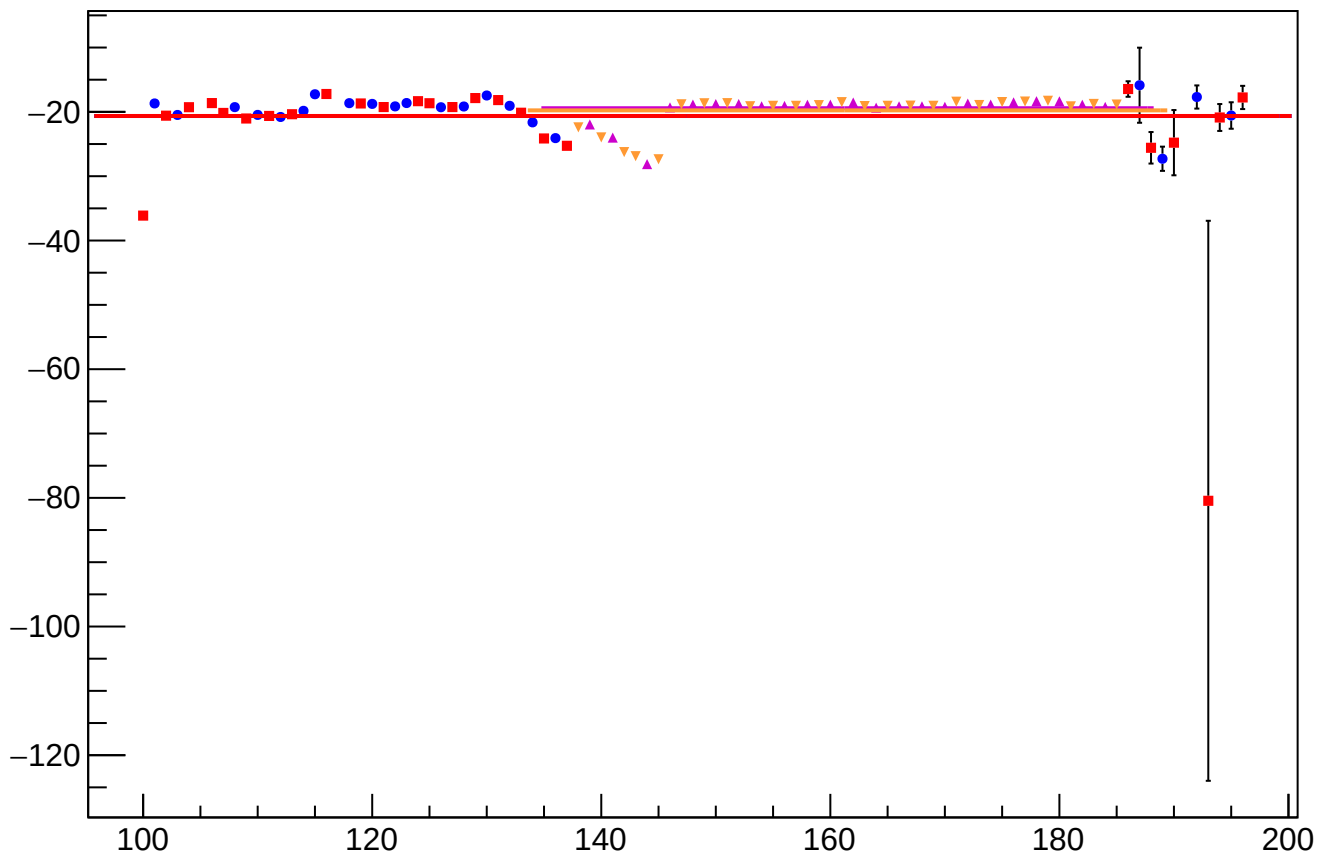
Right: 4.535+/-0.260 χ^2/NDF : 835.0/45

In: 8.993+/-0.155 χ^2/NDF :1677.7/43

Out: 8.713+/-0.153 χ^2/NDF :2098.5/49

All: 8.852+/-0.109 χ^2/NDF : 3777.8/93

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12440.0/20

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13807.1/24

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

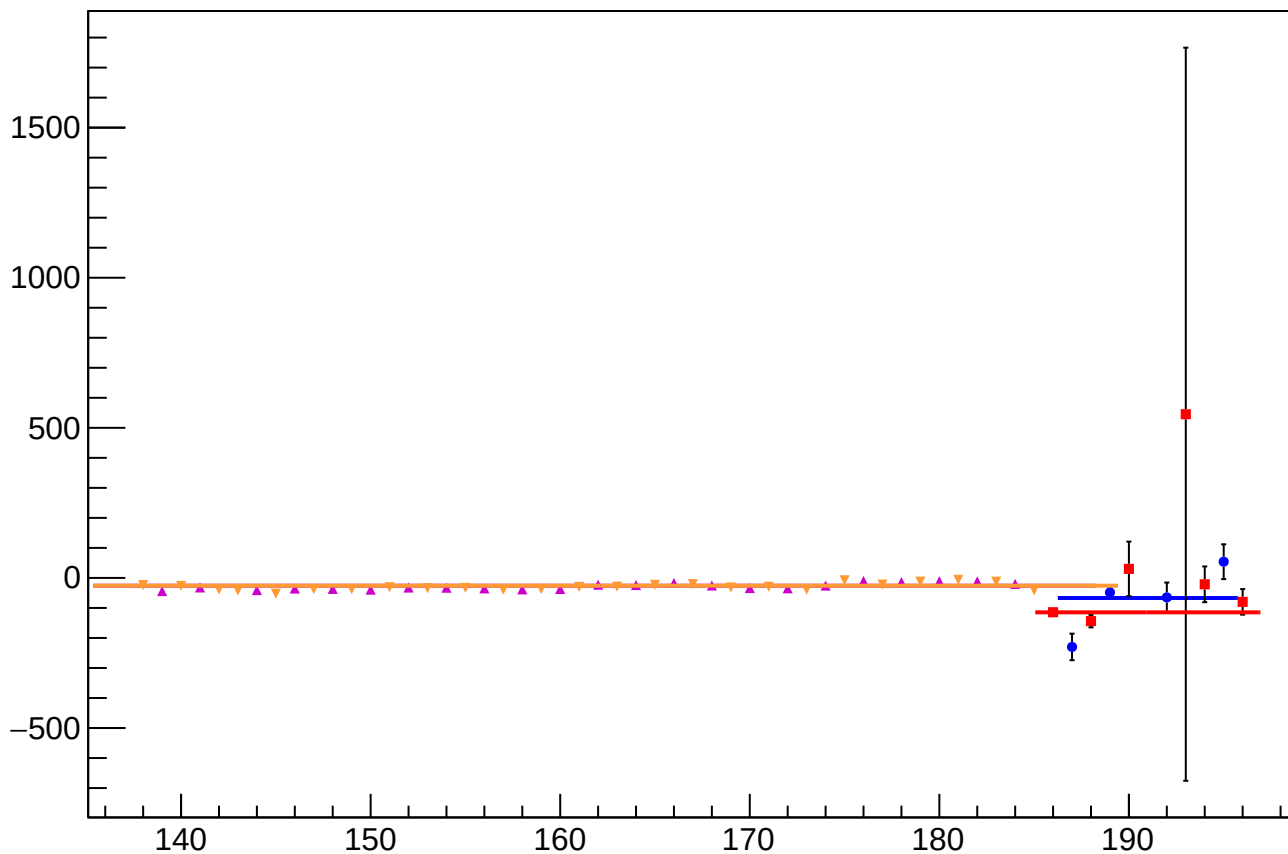
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26247.2/45

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68950.0/43

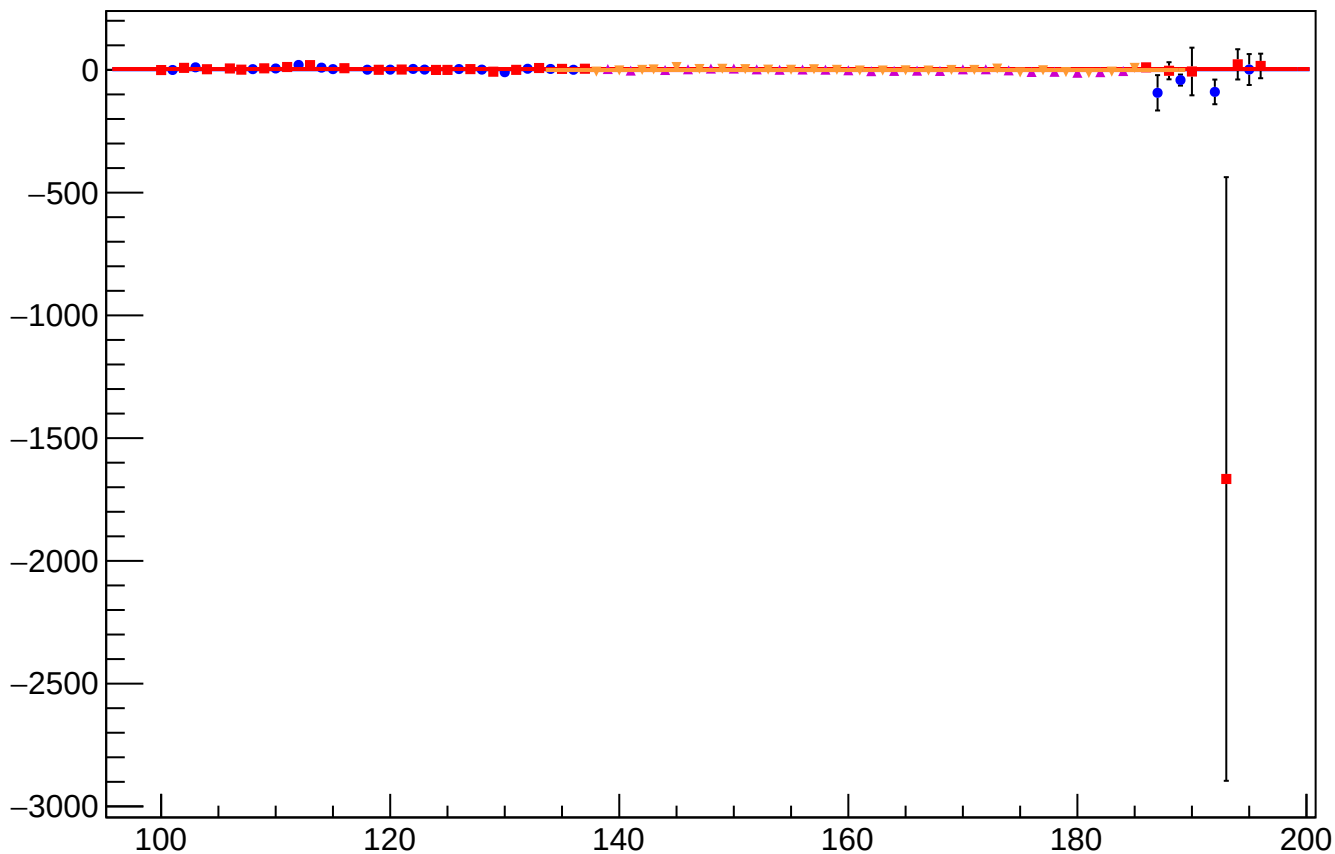
Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107147.7/49

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176826.2/93

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.441 ± 0.315 χ^2/NDF : 301.3/20

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.597 ± 0.318 χ^2/NDF : 282.4/24

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

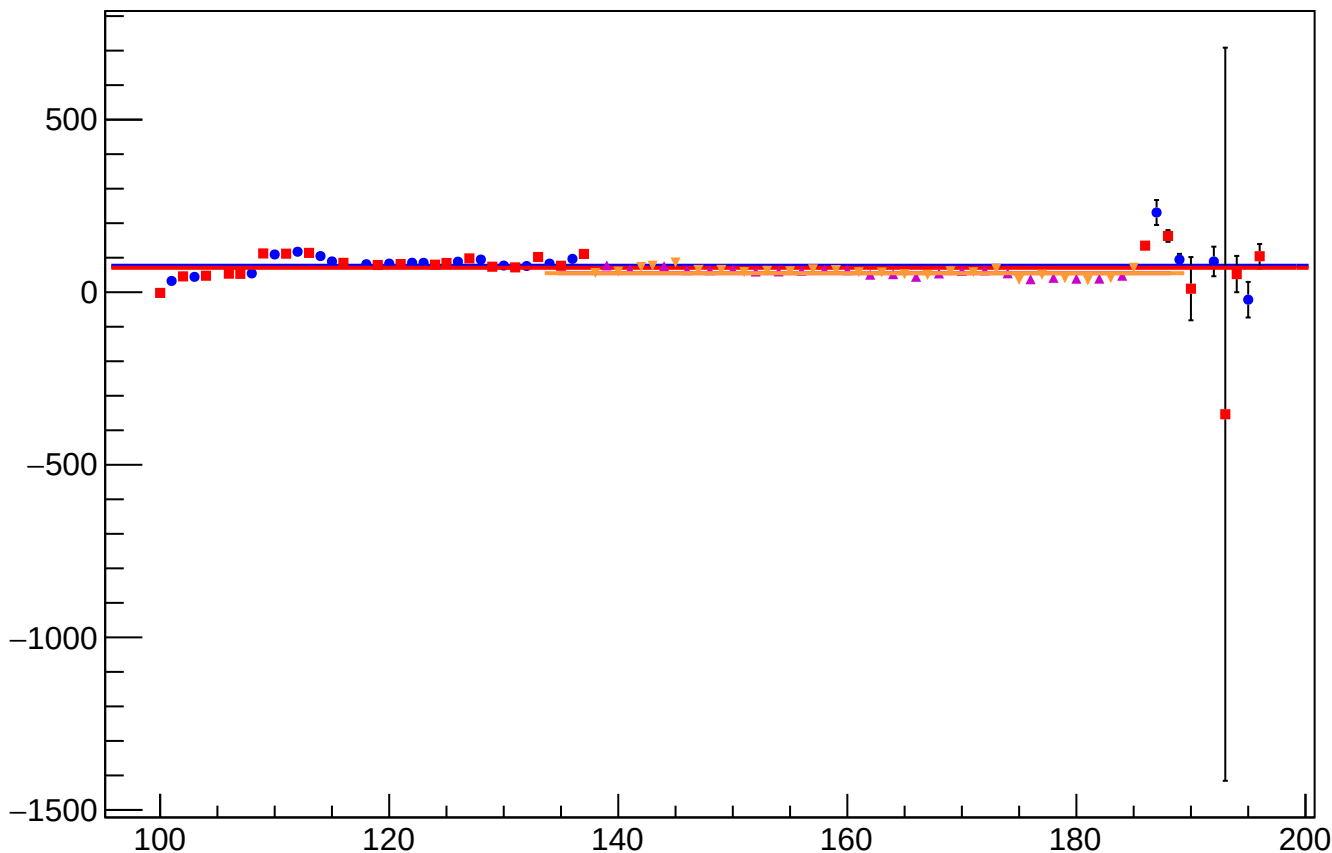
Right: 3.013 ± 0.224 χ^2/NDF : 590.4/45

In: -0.193 ± 0.136 χ^2/NDF : 1493.5/43

Out: 0.137 ± 0.133 χ^2/NDF : 1736.7/49

All: -0.025 ± 0.095 χ^2/NDF : 3233.2/93

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.725 $\pm$ 0.577 χ^2 /NDF: 2287.9/20

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.755 $\pm$ 0.549 χ^2 /NDF: 4490.8/24

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

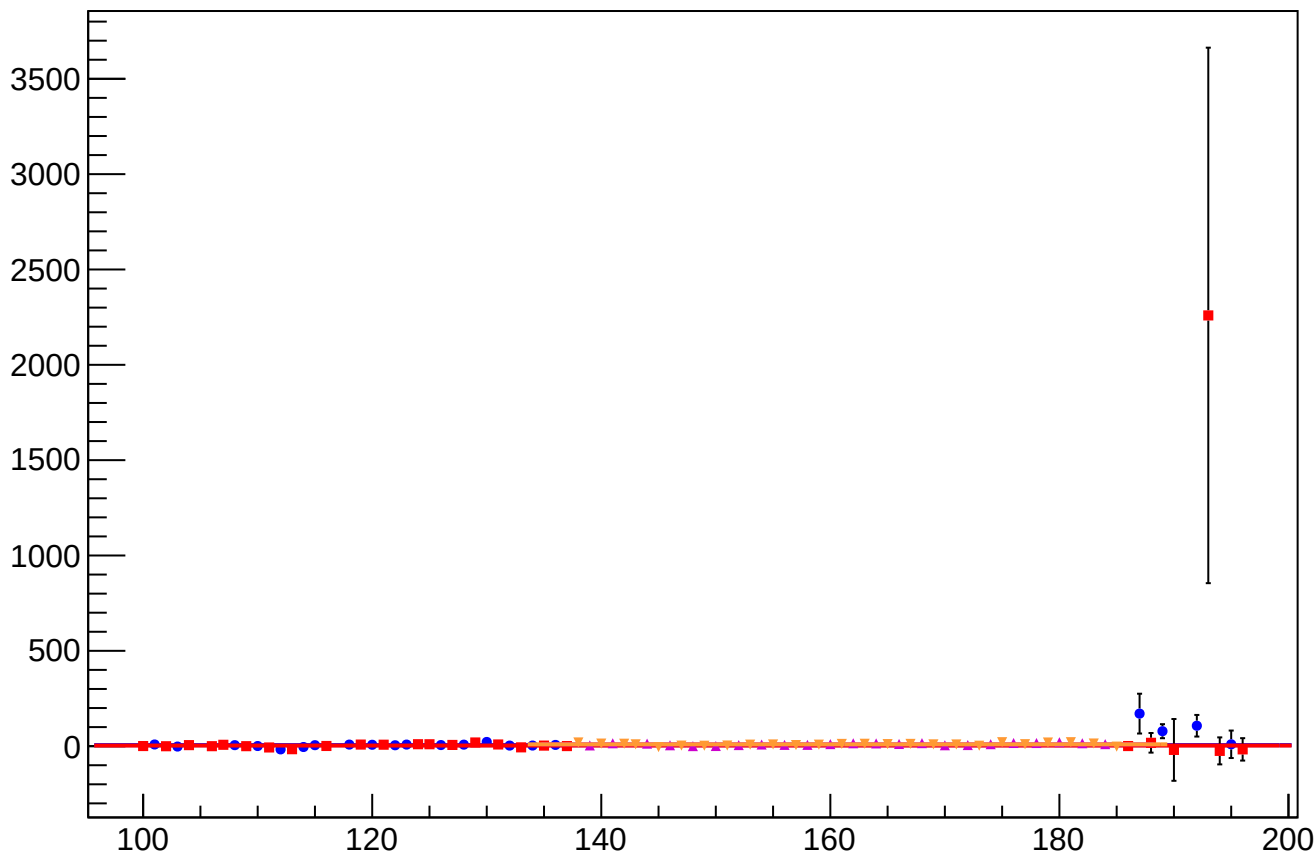
Right: 73.592 $\pm$ 0.398 χ^2 /NDF: 6834.9/45

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7216.9/43

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9775.5/49

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 16995.8/93

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441+/-0.361 χ^2/NDF : 393.9/20

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.278+/-0.365 χ^2/NDF : 428.0/24

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

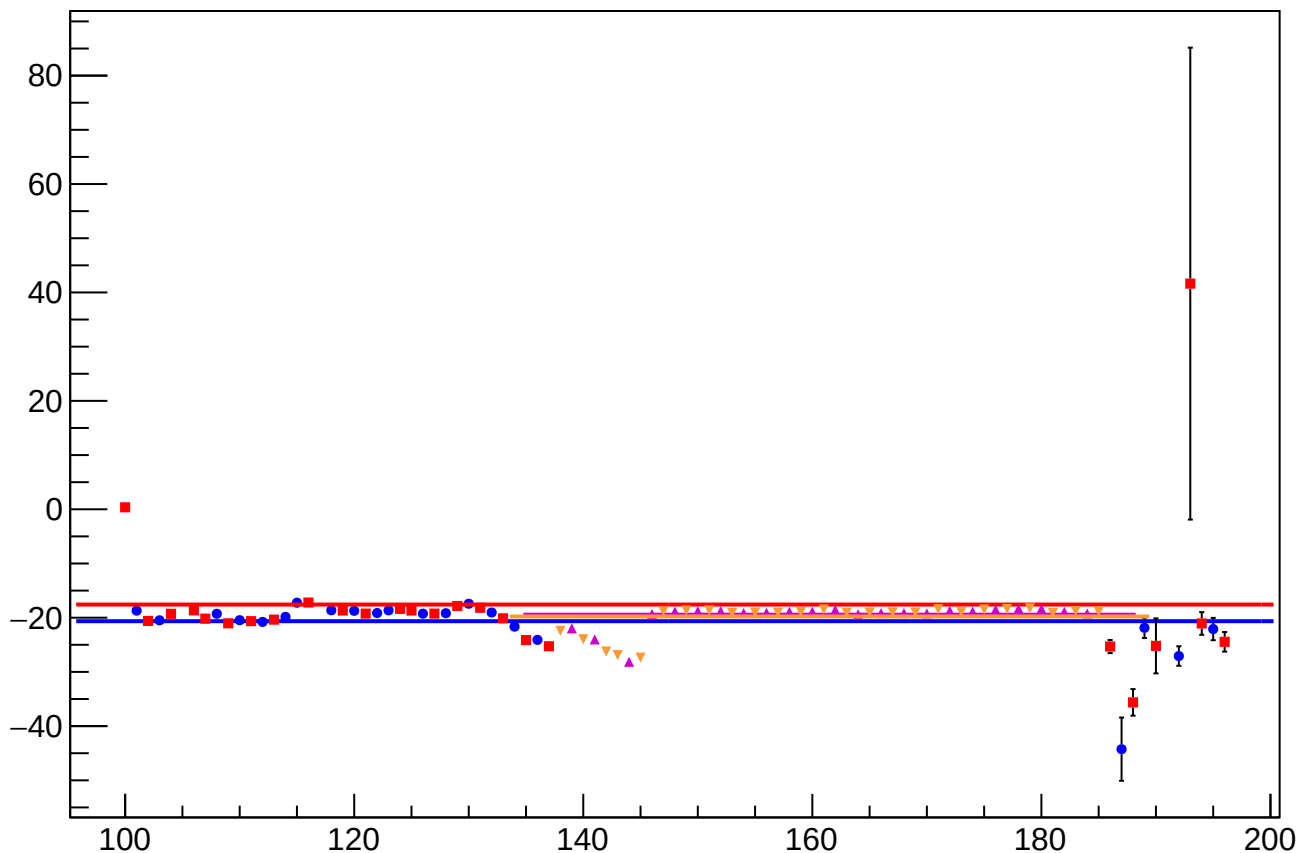
Right: 4.373+/-0.257 χ^2/NDF : 839.6/45

In: 8.945+/-0.155 χ^2/NDF :1700.5/43

Out: 8.561+/-0.153 χ^2/NDF :2122.4/49

All: 8.750+/-0.109 χ^2/NDF : 3826.0/93

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 $\pm$ 0.019 χ^2 /NDF: 12492.7/20

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.575 $\pm$ 0.018 χ^2 /NDF: 178434.8/24

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

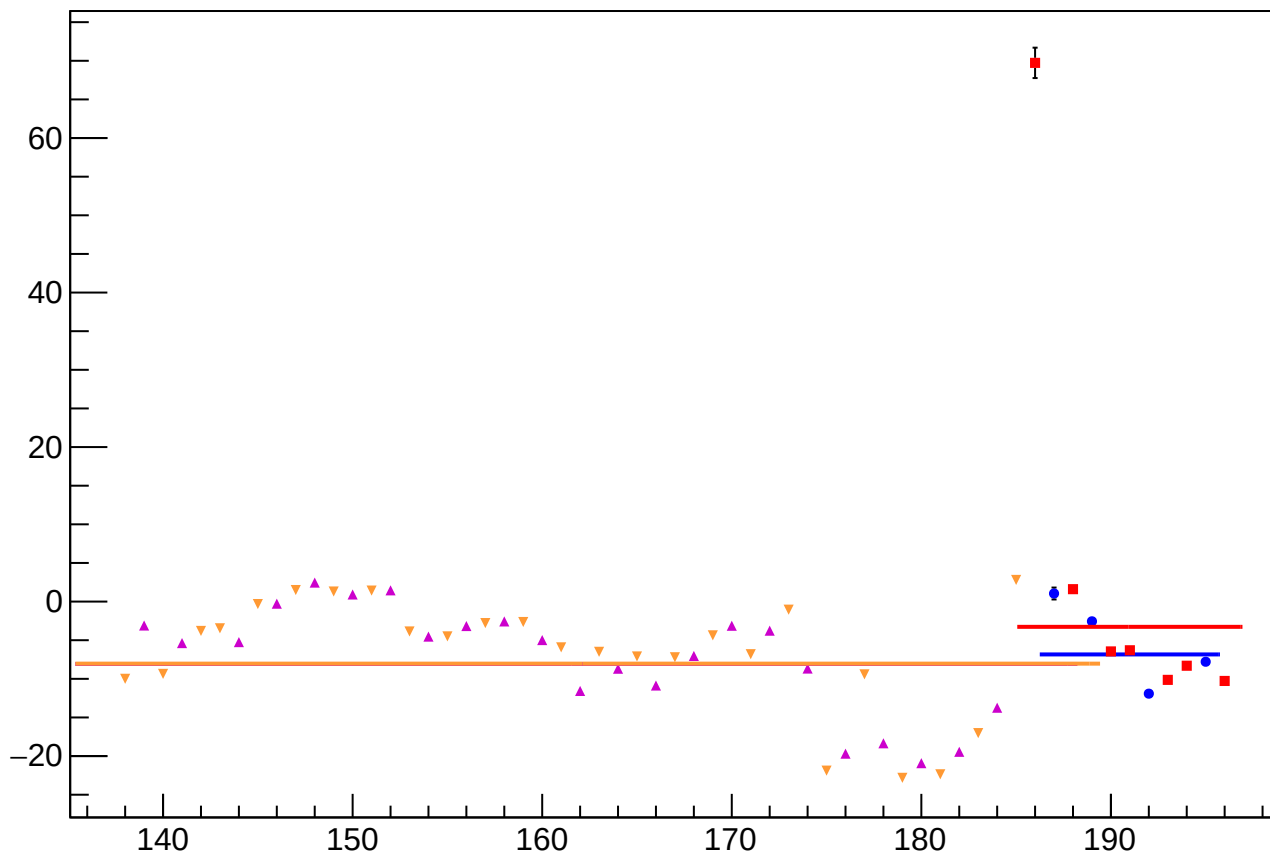
Right: -19.003 $\pm$ 0.013 χ^2 /NDF: 204397.6/45

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68912.6/43

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282426.0/49

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351701.6/93

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

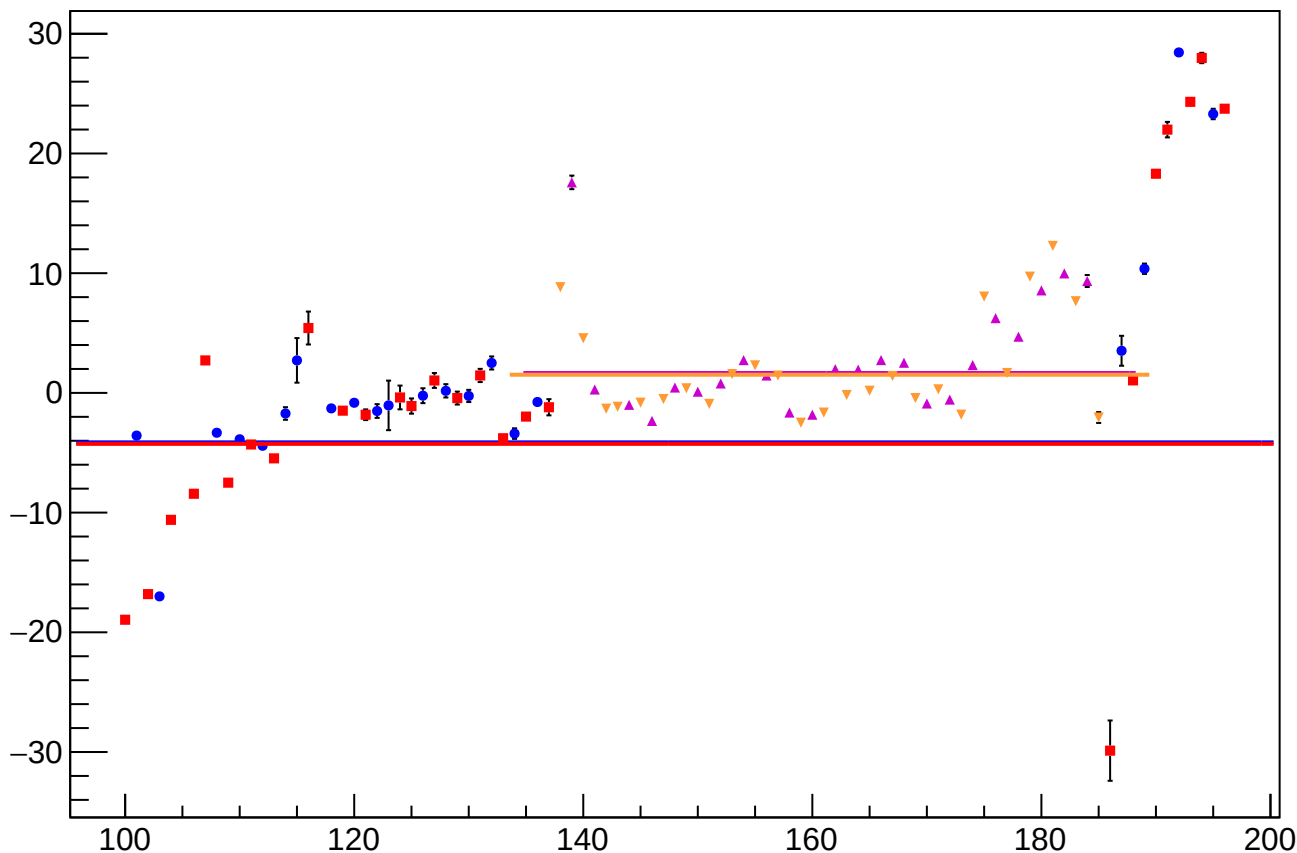


Right In: -6.841 ± 0.215 $\chi^2/\text{NDF}: 399.8/3$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.269 ± 0.129 $\chi^2/\text{NDF}: 3009.2/6$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -4.222 ± 0.111 $\chi^2/\text{NDF}: 3611.9/10$
 In: -7.953 ± 0.068 $\chi^2/\text{NDF}: 10971.2/26$
 Out: -6.949 ± 0.062 $\chi^2/\text{NDF}: 16623.4/31$

All: -7.401 ± 0.046 $\chi^2/\text{NDF}: 27713.7/58$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.133 ± 0.053 χ^2/NDF : 21609.1/20

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -4.257 ± 0.055 χ^2/NDF : 35795.3/25

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

Right: -4.193 ± 0.038 χ^2/NDF : 57407.0/46

In: -1.397 ± 0.039 χ^2/NDF : 31183.4/43

Out: -1.319 ± 0.039 χ^2/NDF : 46187.4/50

All: -1.358 ± 0.027 χ^2/NDF : 77372.9/94

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.417 ± 0.081 χ^2/NDF : 2030.4/20

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 3.732 ± 0.071 χ^2/NDF : 7138.4/25

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

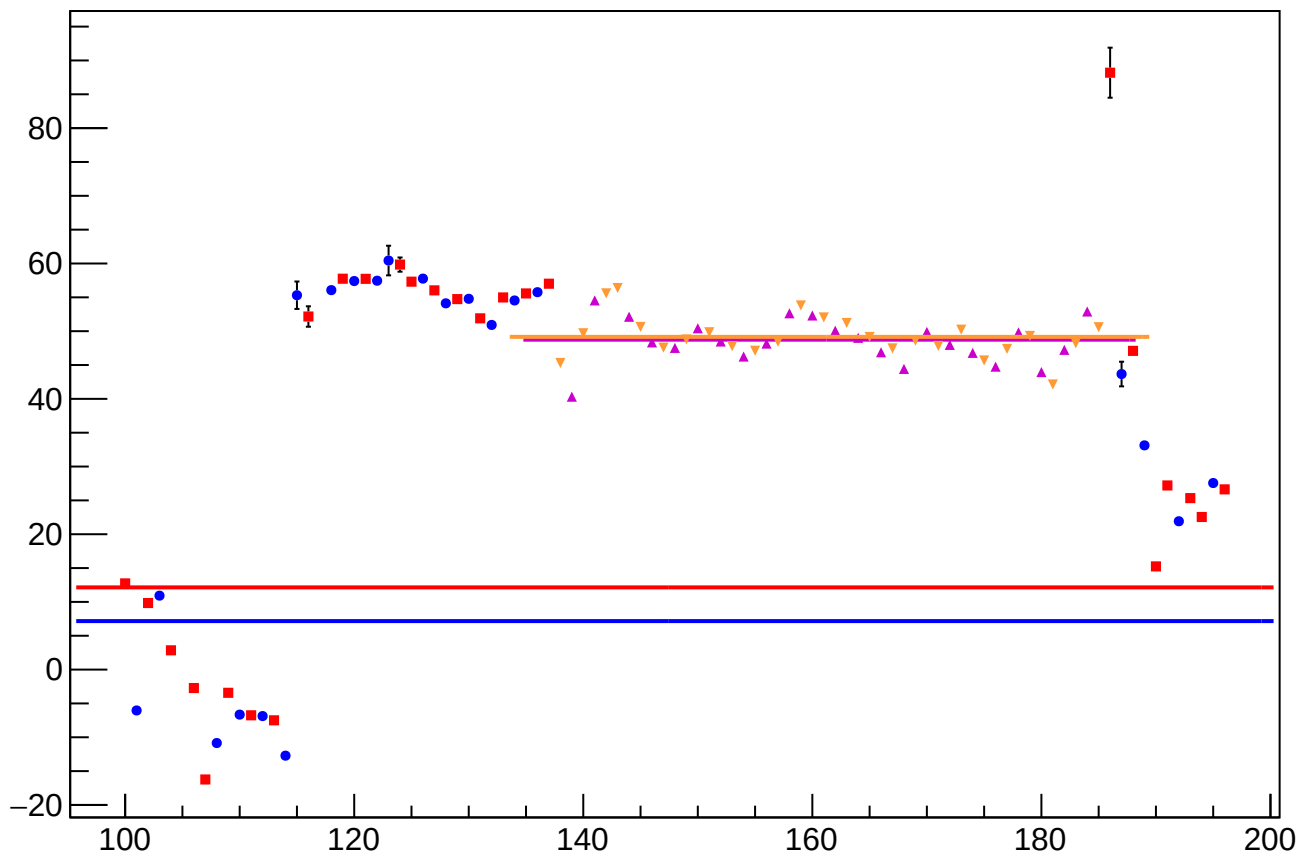
Right: 4.467 ± 0.054 χ^2/NDF : 9412.3/46

In: 3.913 ± 0.054 χ^2/NDF : 9824.7/43

Out: 3.302 ± 0.050 χ^2/NDF : 16103.4/50

All: 3.587 ± 0.037 χ^2/NDF : 25997.6/94

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.165+/-0.063 χ^2/NDF : 125513.3/20

Left Out: 49.163+/-0.062 χ^2/NDF : 2259.9/24

Right Out: 12.145+/-0.066 χ^2/NDF : 133298.7/25

Left In: 48.744+/-0.064 χ^2/NDF : 2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

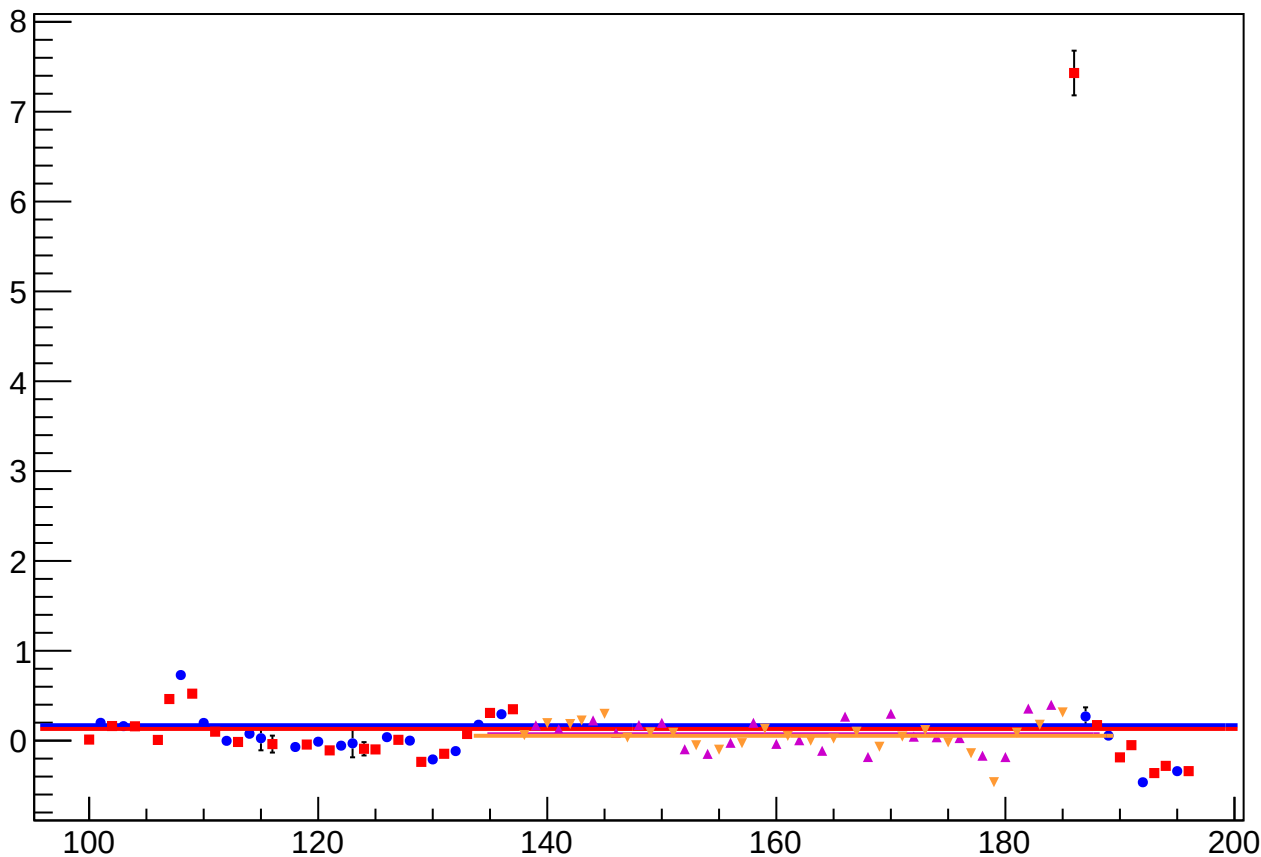
Right: 9.553+/-0.046 χ^2/NDF : 261775.9/46

In: 27.815+/-0.045 χ^2/NDF : 341621.0/43

Out: 31.887+/-0.045 χ^2/NDF : 303330.4/50

All: 29.844+/-0.032 χ^2/NDF : 649043.6/94

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172+/-0.003 χ^2/NDF : 7392.7/20

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.130+/-0.002 χ^2/NDF : 7456.7/25

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

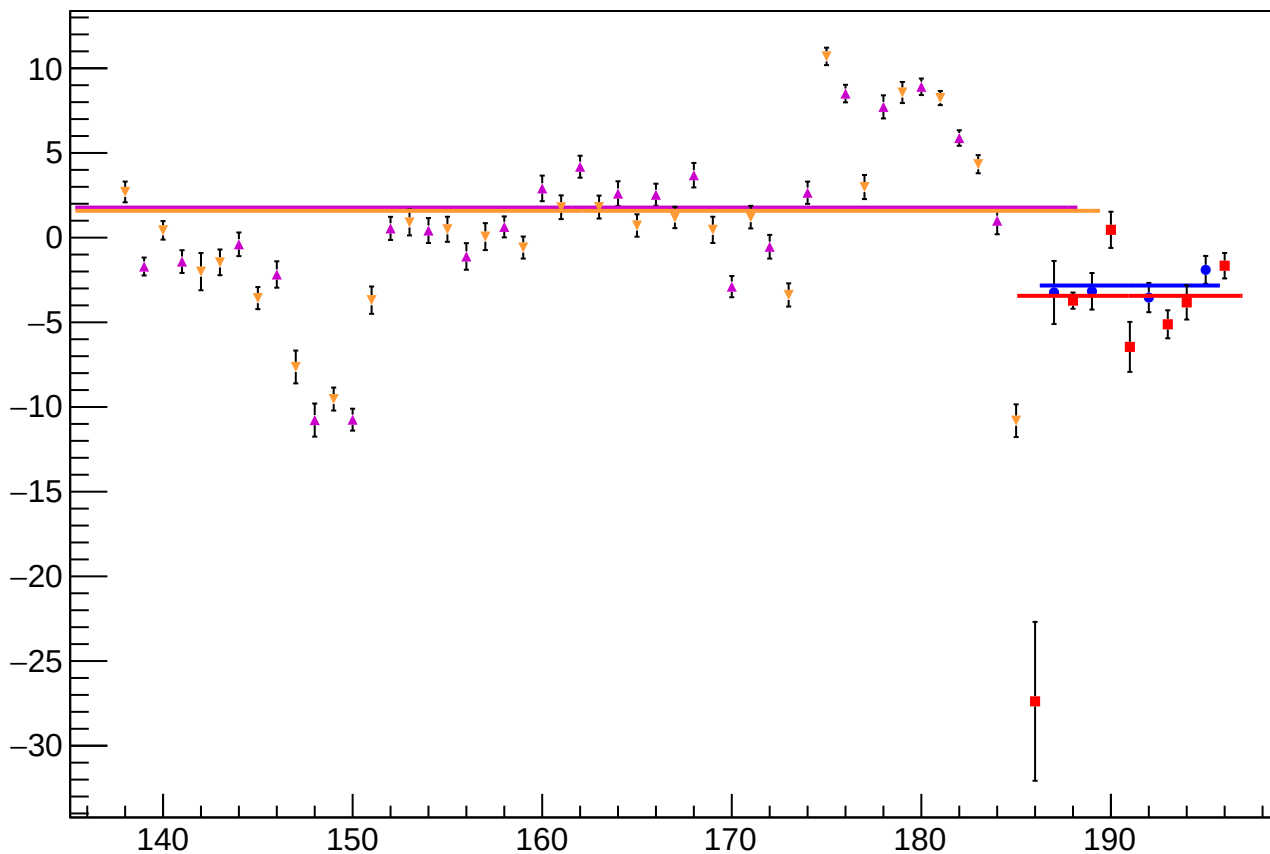
Right: 0.150+/-0.002 χ^2/NDF : 14977.8/46

In: 0.125+/-0.002 χ^2/NDF : 11298.4/43

Out: 0.097+/-0.002 χ^2/NDF : 10246.9/50

All: 0.110+/-0.001 χ^2/NDF : 21651.9/94

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.827 ± 0.502 χ^2/NDF : 2.1/3

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.435 ± 0.317 χ^2/NDF : 53.7/6

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

Right: -3.262 ± 0.268 χ^2/NDF : 56.9/10

In: 1.463 ± 0.131 χ^2/NDF : 1377.7/26

Out: 0.834 ± 0.122 χ^2/NDF : 1726.4/31

All: 1.128 ± 0.089 χ^2/NDF : 3116.5/58

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -63.460 ± 0.209 $\chi^2/\text{NDF}: 3825.2/20$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -64.919 ± 0.185 $\chi^2/\text{NDF}: 7388.6/25$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

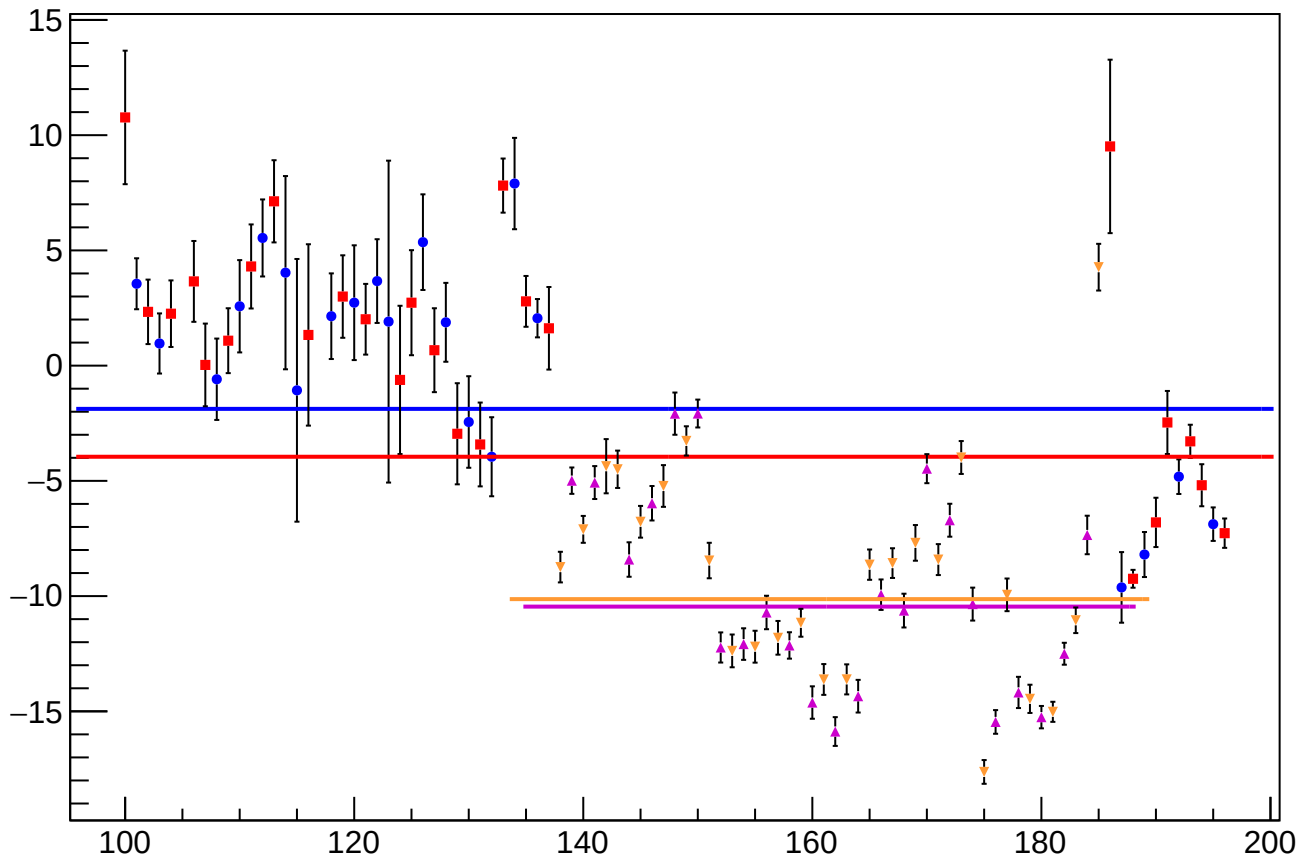
Right: -64.277 ± 0.139 $\chi^2/\text{NDF}: 11241.1/46$

In: -56.558 ± 0.097 $\chi^2/\text{NDF}: 6297.1/43$

Out: -57.214 ± 0.092 $\chi^2/\text{NDF}: 10806.3/50$

All: -56.905 ± 0.067 $\chi^2/\text{NDF}: 17127.4/94$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.876 ± 0.299 $\chi^2/\text{NDF}: 269.1/20$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -3.953 ± 0.222 $\chi^2/\text{NDF}: 593.8/25$
 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: -3.216 ± 0.178 $\chi^2/\text{NDF}: 894.0/46$
 In: -9.008 ± 0.123 $\chi^2/\text{NDF}: 1957.2/43$
 Out: -8.499 ± 0.114 $\chi^2/\text{NDF}: 2221.0/50$
 All: -8.734 ± 0.084 $\chi^2/\text{NDF}: 4187.5/94$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.148 ± 0.239 χ^2/NDF : 6226.6/20

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -26.655 ± 0.217 χ^2/NDF : 10066.2/25

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

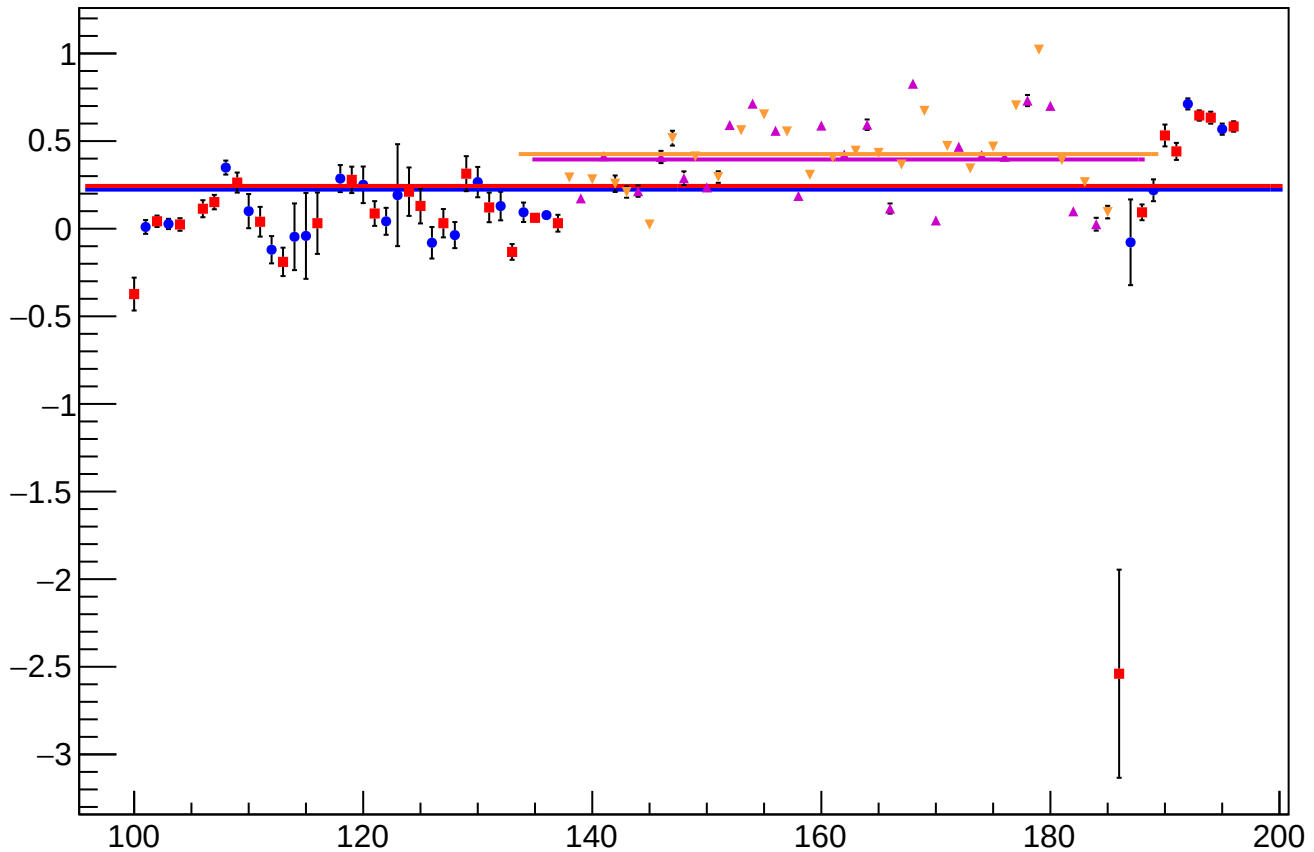
Right: -27.781 ± 0.161 χ^2/NDF : 16352.3/46

In: -36.015 ± 0.109 χ^2/NDF : 8305.5/43

Out: -35.395 ± 0.104 χ^2/NDF : 13114.5/50

All: -35.691 ± 0.075 χ^2/NDF : 21436.9/94

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.223 ± 0.011 χ^2/NDF : 544.7/20

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.244 ± 0.010 χ^2/NDF : 836.4/25

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

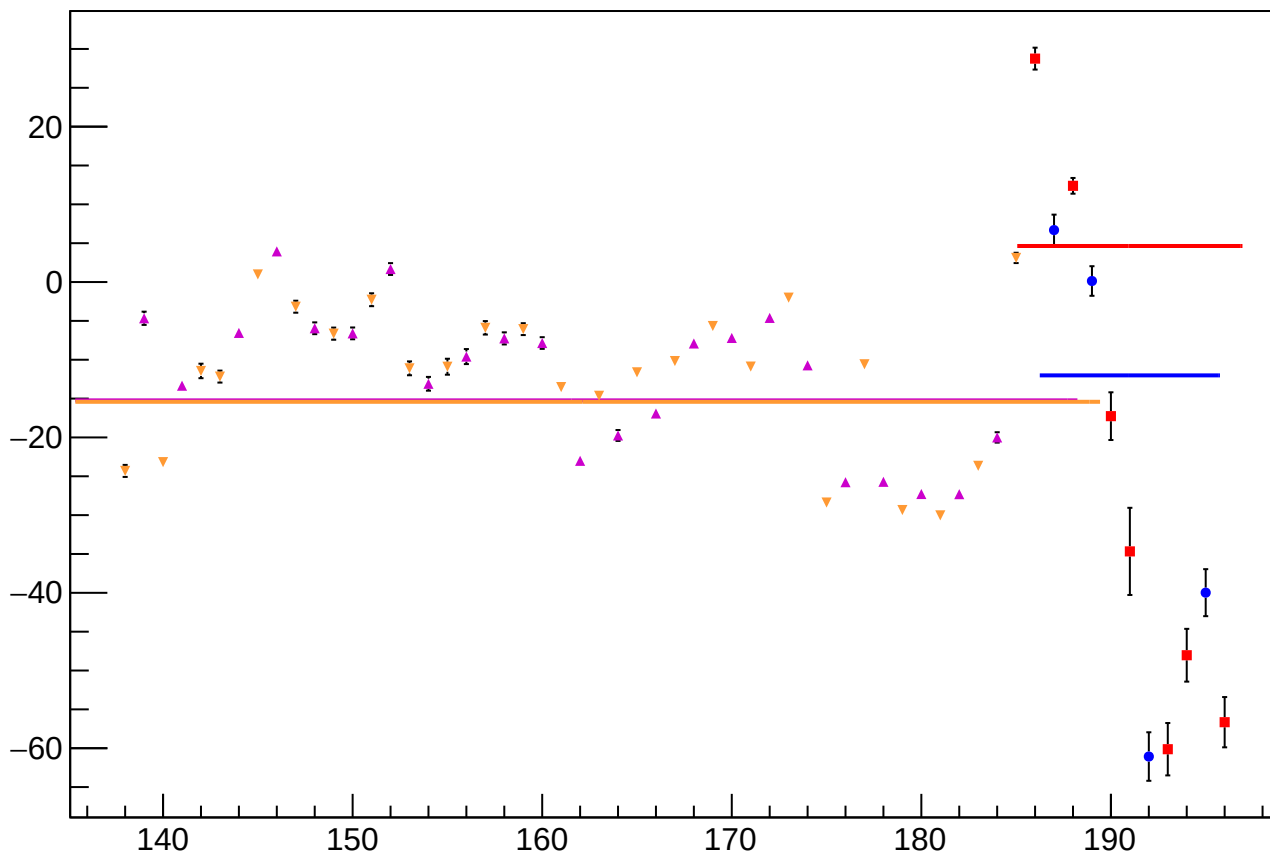
Right: 0.235 ± 0.007 χ^2/NDF : 1383.2/46

In: 0.361 ± 0.005 χ^2/NDF : 2542.2/43

Out: 0.382 ± 0.005 χ^2/NDF : 2416.9/50

All: 0.372 ± 0.003 χ^2/NDF : 4968.6/94

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.013 ± 1.162 $\chi^2/\text{NDF}: 461.5/3$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: 4.639 ± 0.728 $\chi^2/\text{NDF}: 1419.4/6$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

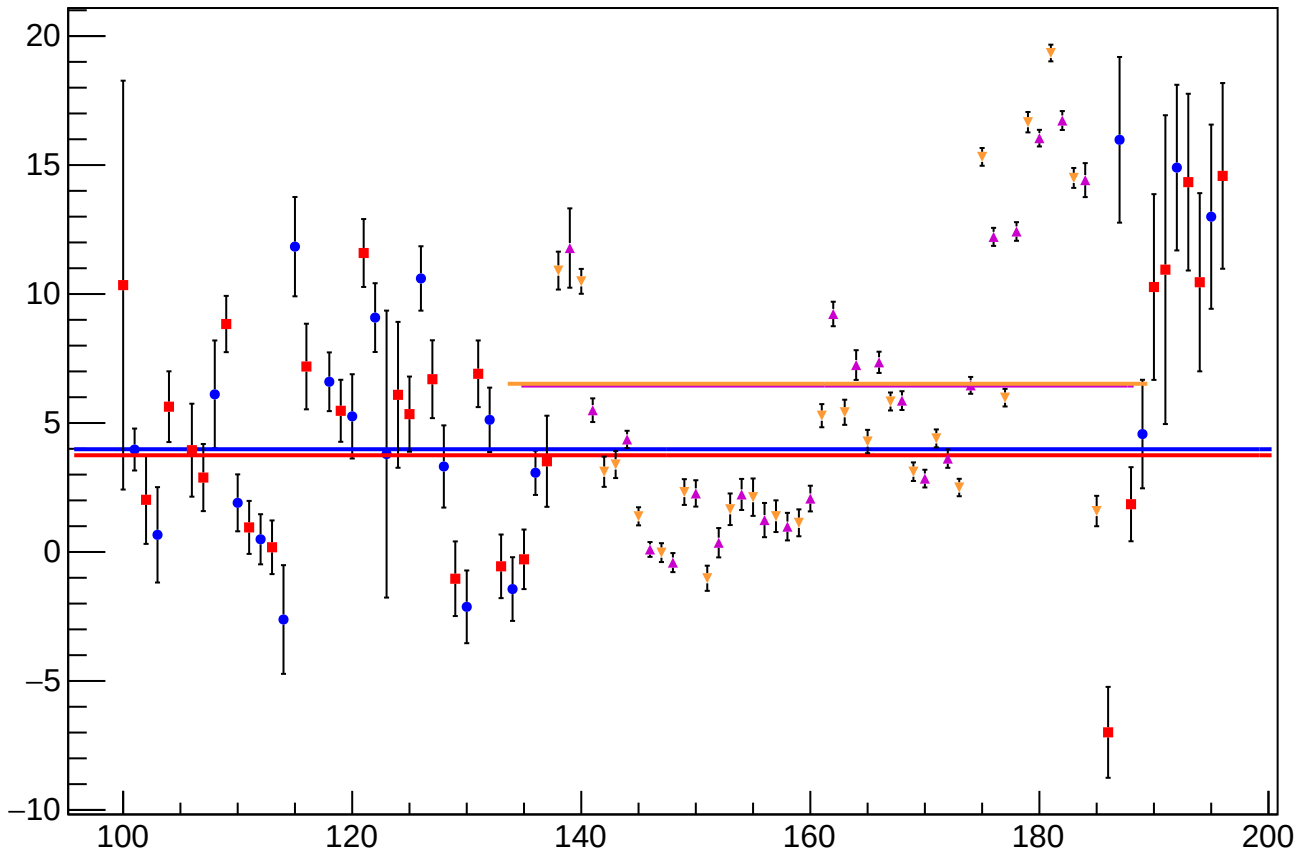
Right: -0.056 ± 0.617 $\chi^2/\text{NDF}: 2028.4/10$

In: -15.203 ± 0.106 $\chi^2/\text{NDF}: 9126.5/26$

Out: -15.003 ± 0.104 $\chi^2/\text{NDF}: 12671.4/31$

All: -15.100 ± 0.074 $\chi^2/\text{NDF}: 21799.7/58$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.983 ± 0.304 χ^2/NDF : 168.0/20

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.749 ± 0.300 χ^2/NDF : 199.9/25

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

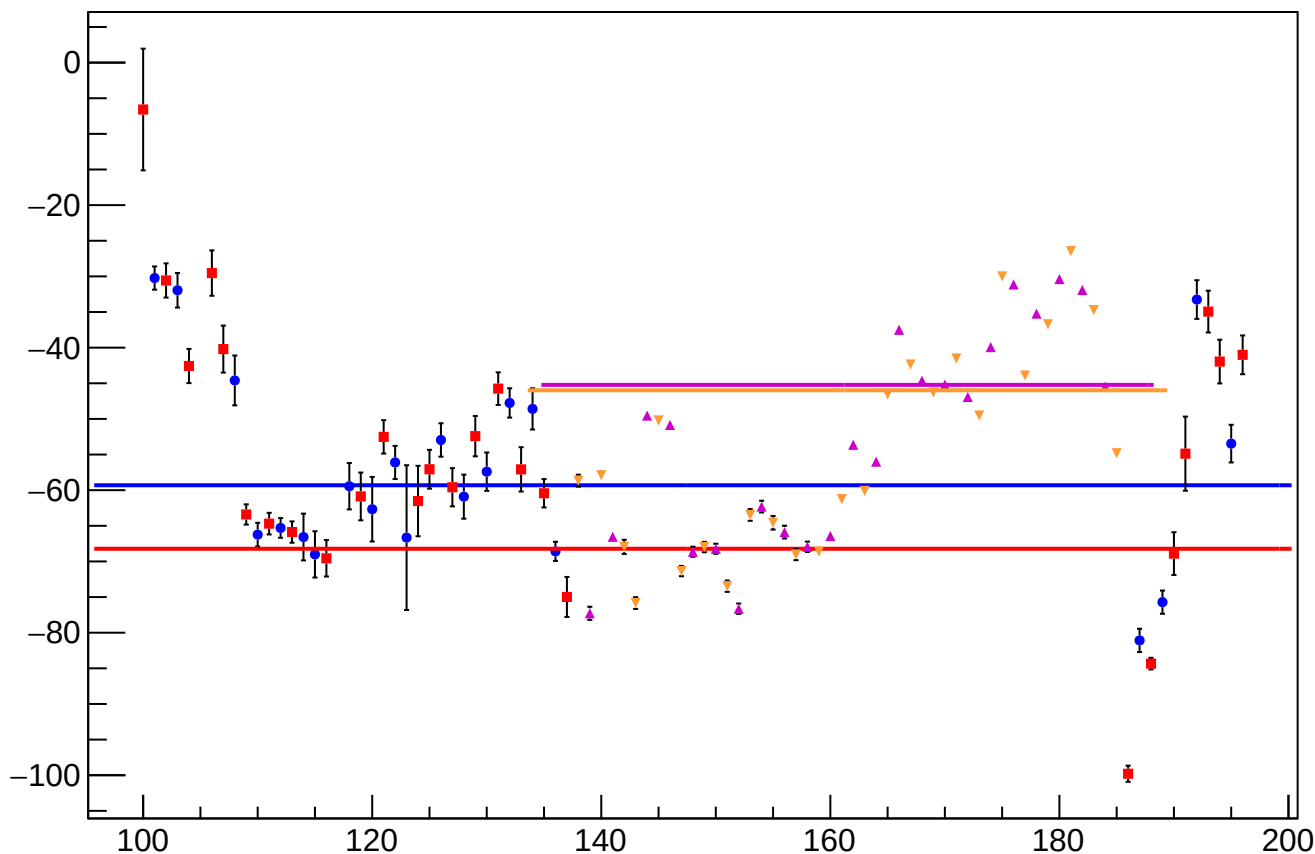
Right: 3.865 ± 0.213 χ^2/NDF : 368.2/46

In: 6.268 ± 0.083 χ^2/NDF : 4177.2/43

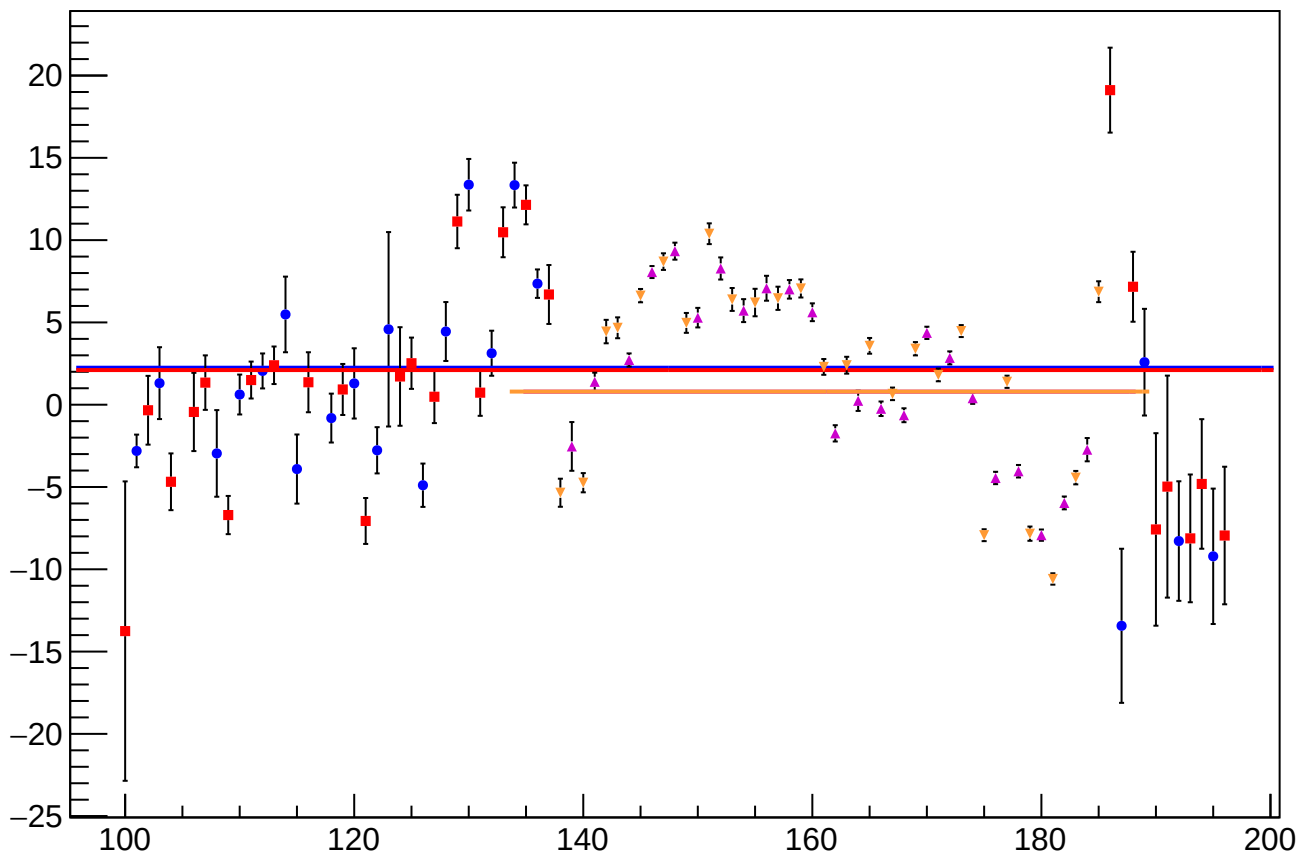
Out: 6.313 ± 0.082 χ^2/NDF : 5264.1/50

All: 6.291 ± 0.058 χ^2/NDF : 9441.5/94

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.248 $\pm$ 0.342 χ^2 /NDF: 270.2/20

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF:3760.0/24

Right Out: 2.105 $\pm$ 0.343 χ^2 /NDF: 333.7/25

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF:2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

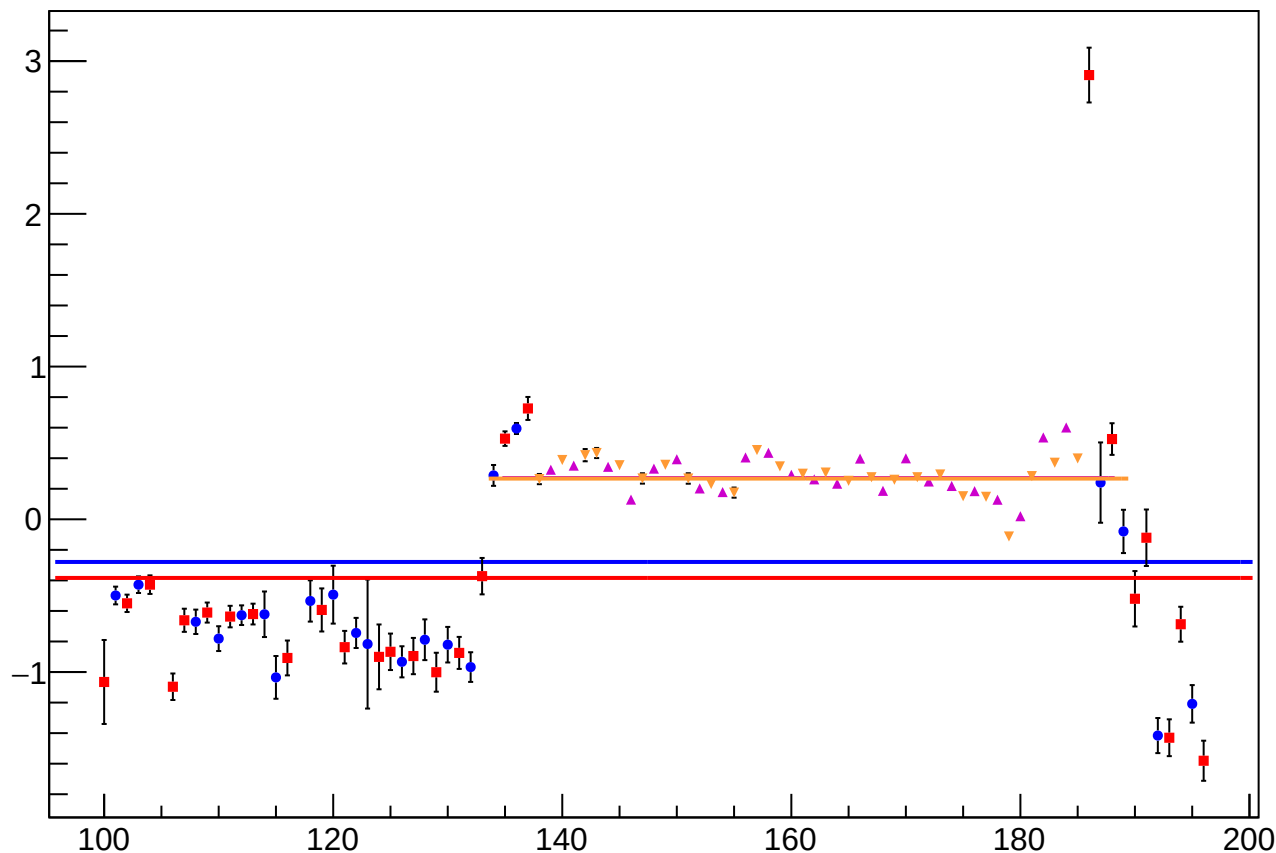
Right: 2.176 $\pm$ 0.242 χ^2 /NDF: 603.9/46

In: 0.900 $\pm$ 0.093 χ^2 /NDF:2979.5/43

Out: 0.892 $\pm$ 0.092 χ^2 /NDF:4107.1/50

All: 0.896 $\pm$ 0.065 χ^2 /NDF: 7086.6/94

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.279 ± 0.018 χ^2/NDF : 1124.0/20

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.384 ± 0.018 χ^2/NDF : 1426.9/25

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

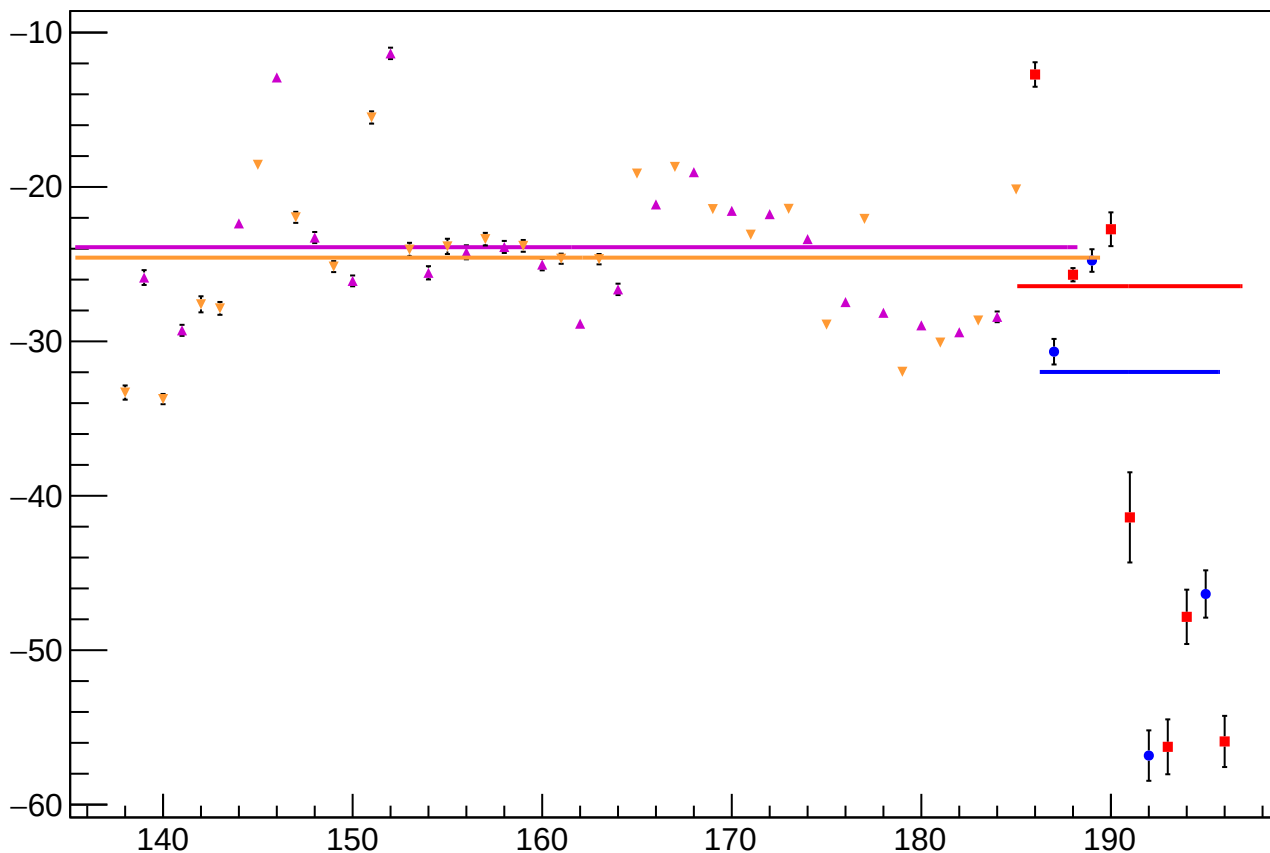
Right: -0.333 ± 0.013 χ^2/NDF : 2567.7/46

In: 0.240 ± 0.004 χ^2/NDF : 2949.4/43

Out: 0.230 ± 0.004 χ^2/NDF : 3386.3/50

All: 0.235 ± 0.003 χ^2/NDF : 6338.5/94

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



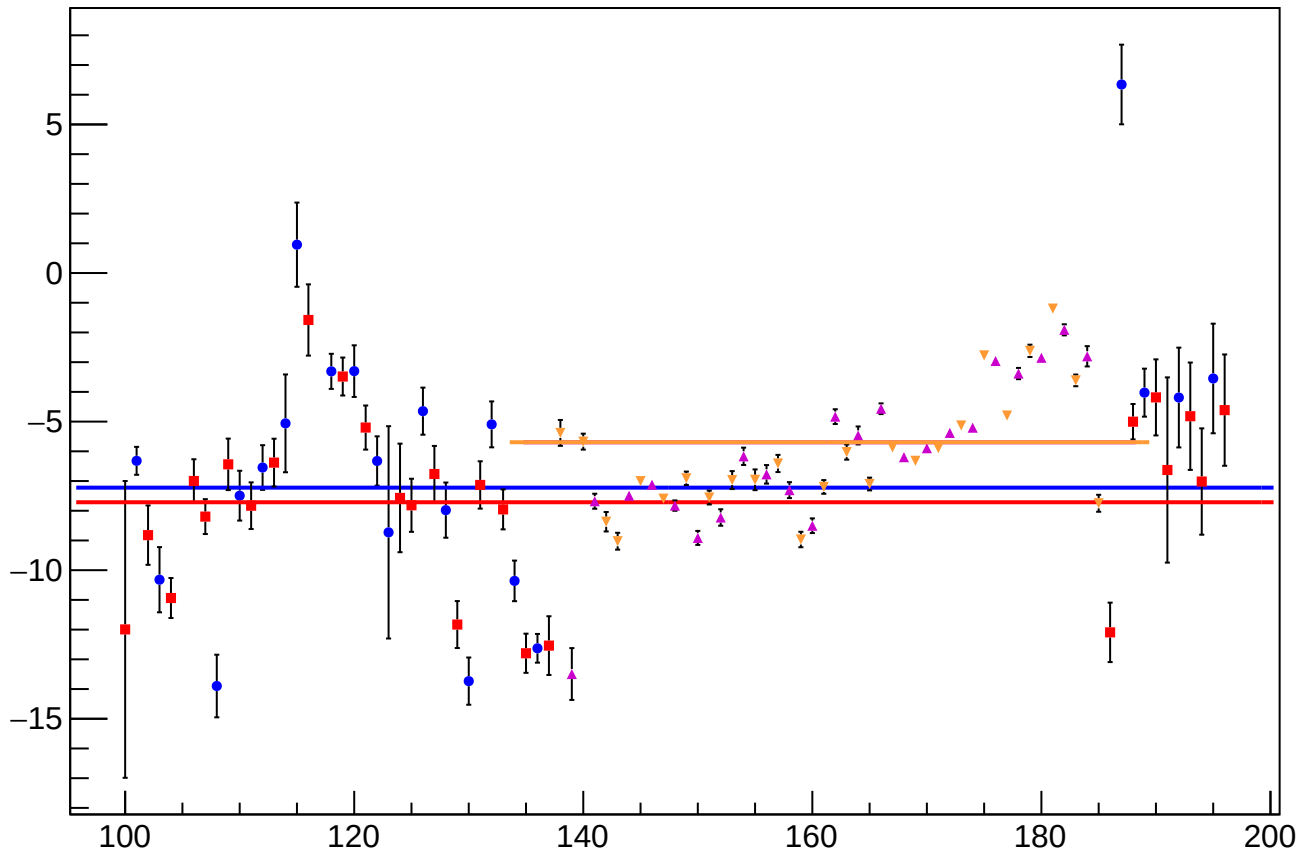
Right In: -31.981 ± 0.492 $\chi^2/\text{NDF}: 419.7/3$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -26.426 ± 0.335 $\chi^2/\text{NDF}: 1085.1/6$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$
 Right: -28.184 ± 0.277 $\chi^2/\text{NDF}: 1592.0/10$

In: -23.987 ± 0.051 $\chi^2/\text{NDF}: 9841.6/26$
 Out: -24.619 ± 0.050 $\chi^2/\text{NDF}: 9705.4/31$

All: -24.306 ± 0.036 $\chi^2/\text{NDF}: 19625.0/58$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.223 ± 0.179 χ^2/NDF : 511.0/20

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.714 ± 0.171 χ^2/NDF : 278.2/25

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

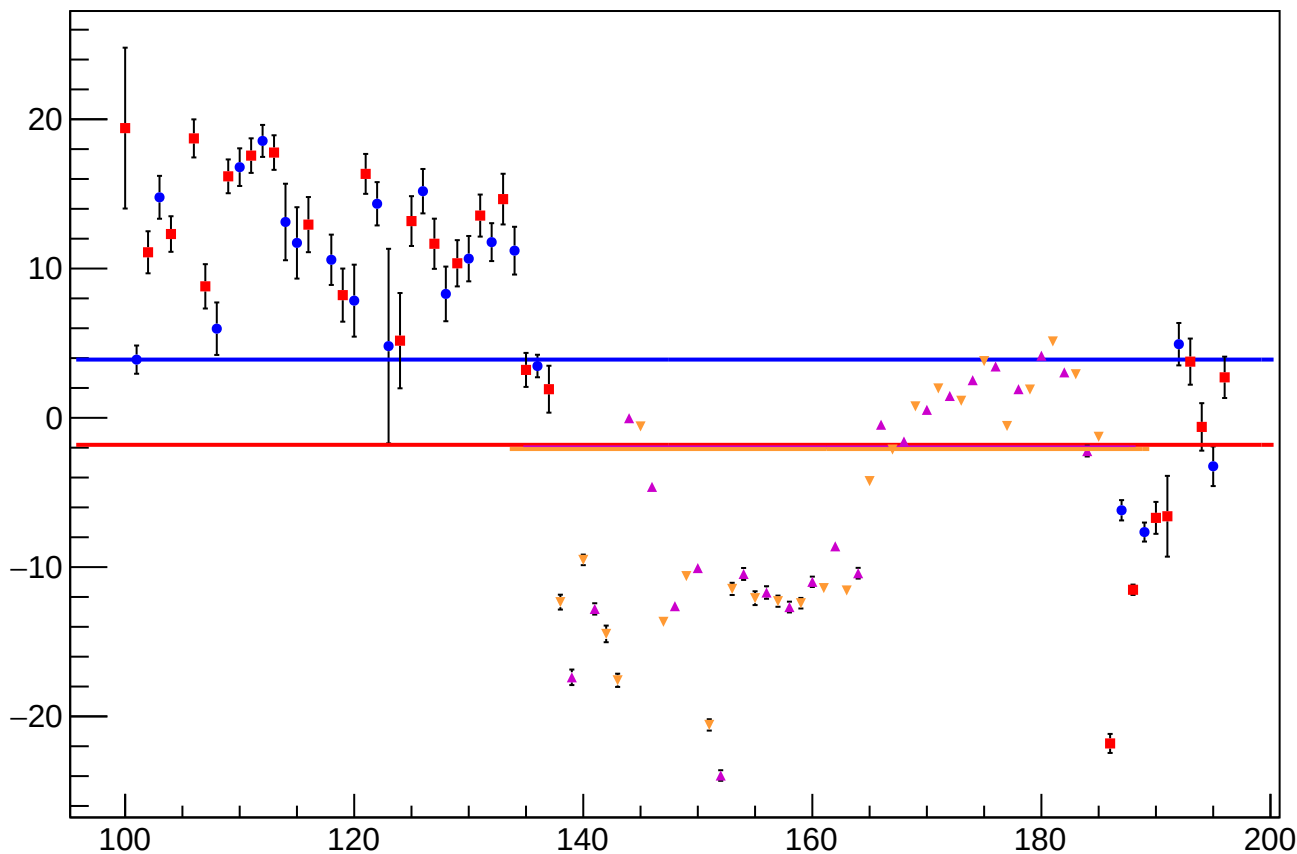
Right: -7.480 ± 0.124 χ^2/NDF : 793.2/46

In: -5.772 ± 0.040 χ^2/NDF : 2889.9/43

Out: -5.805 ± 0.040 χ^2/NDF : 2668.9/50

All: -5.788 ± 0.028 χ^2/NDF : 5559.1/94

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.902 ± 0.263 $\chi^2/\text{NDF}: 1165.7/20$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.808 ± 0.212 $\chi^2/\text{NDF}: 3918.3/25$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$

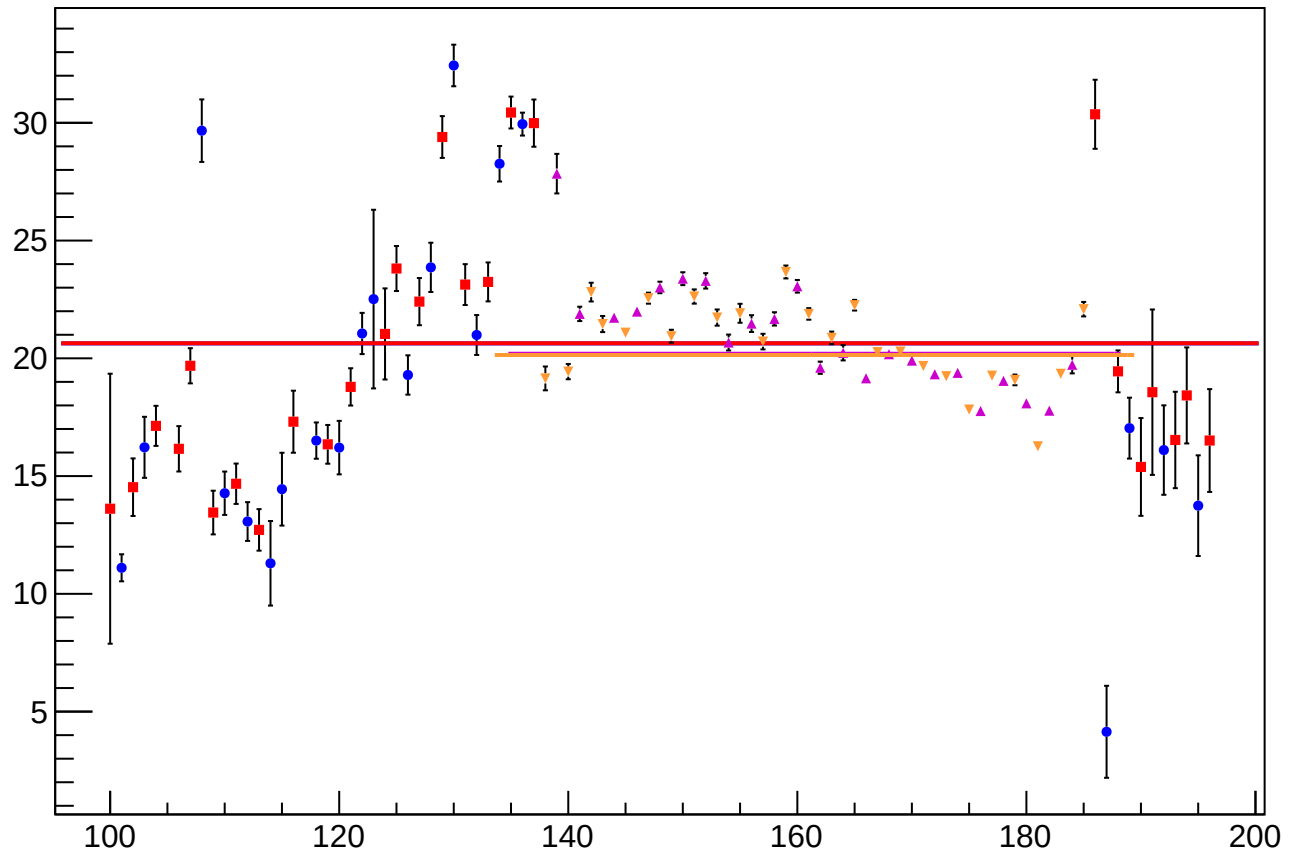
Right: 0.443 ± 0.165 $\chi^2/\text{NDF}: 5368.9/46$

In: -1.766 ± 0.050 $\chi^2/\text{NDF}: 17028.8/43$

Out: -2.076 ± 0.050 $\chi^2/\text{NDF}: 20225.3/50$

All: -1.922 ± 0.035 $\chi^2/\text{NDF}: 37273.3/94$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.633 $\pm$ 0.205 χ^2 /NDF: 1308.2/20

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.640 $\pm$ 0.201 χ^2 /NDF: 783.0/25

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

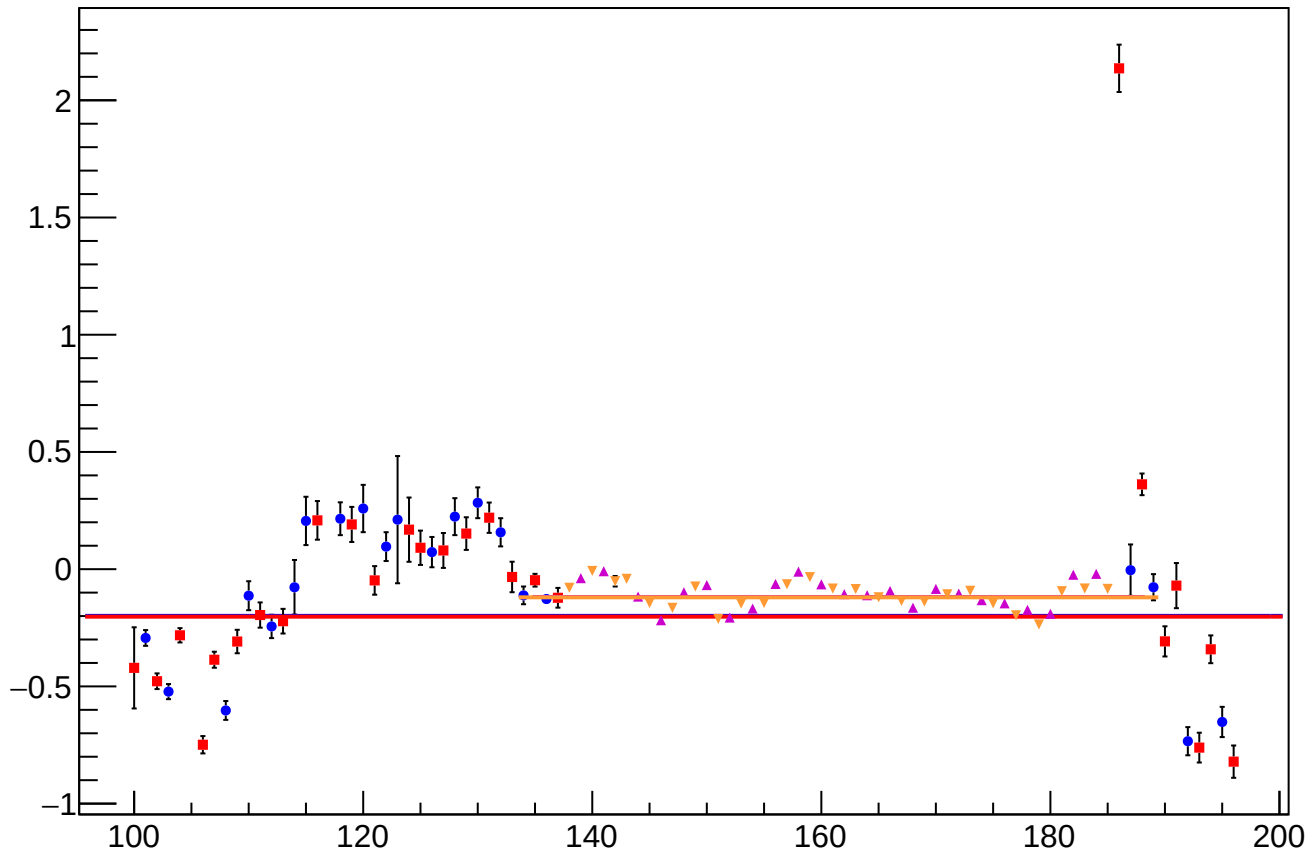
Right: 20.636 $\pm$ 0.144 χ^2 /NDF: 2091.3/46

In: 20.215 $\pm$ 0.045 χ^2 /NDF: 2760.0/43

Out: 20.166 $\pm$ 0.045 χ^2 /NDF: 2208.0/50

All: 20.190 $\pm$ 0.032 χ^2 /NDF: 4968.6/94

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.199 ± 0.011 χ^2/NDF : 599.6/20

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.203 ± 0.010 χ^2/NDF : 1390.8/25

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

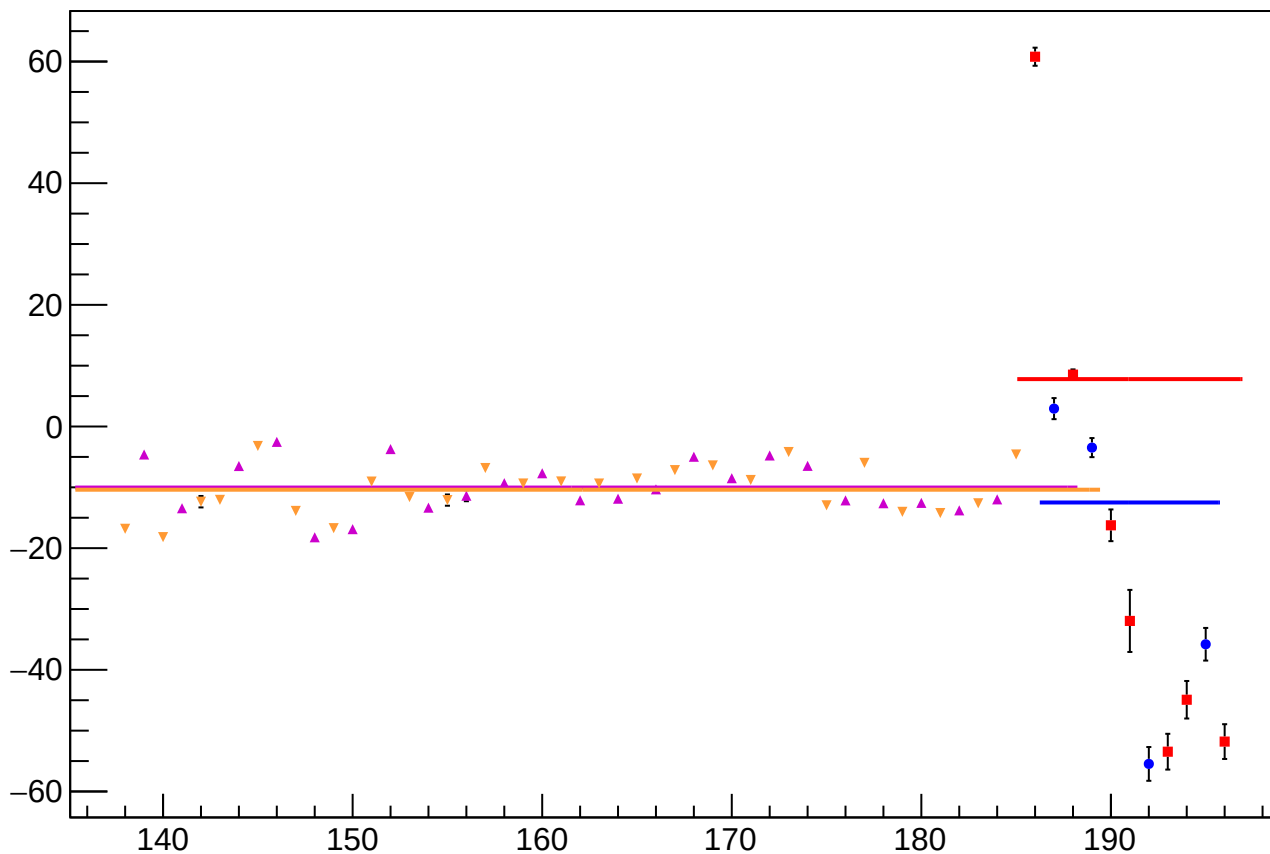
Right: -0.201 ± 0.007 χ^2/NDF : 1990.5/46

In: -0.122 ± 0.002 χ^2/NDF : 1376.8/43

Out: -0.124 ± 0.002 χ^2/NDF : 1986.1/50

All: -0.123 ± 0.001 χ^2/NDF : 3363.3/94

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

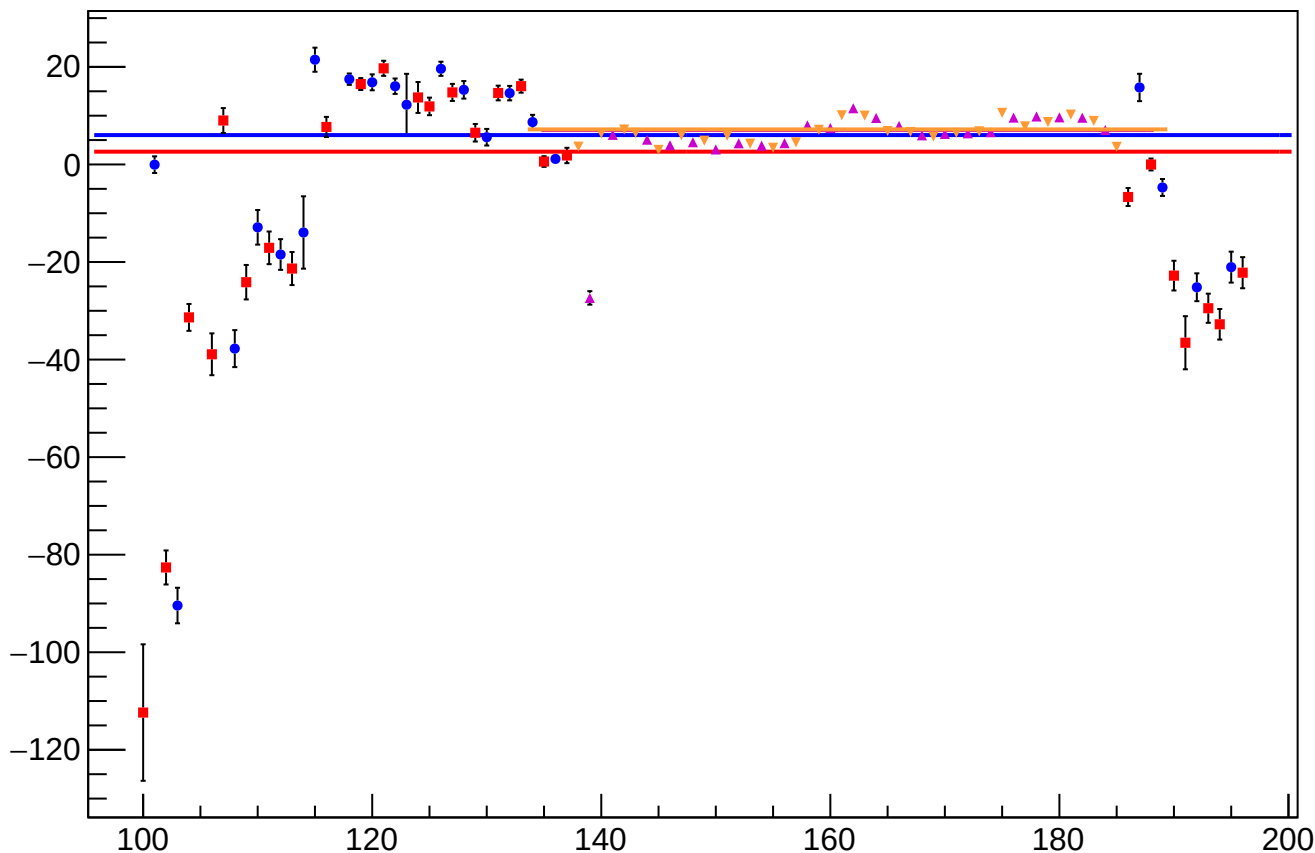


Right In: -12.491 ± 0.996 $\chi^2/\text{NDF}: 427.5/3$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 7.792 ± 0.654 $\chi^2/\text{NDF}: 2578.2/6$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: 1.676 ± 0.547 $\chi^2/\text{NDF}: 3295.5/10$
 In: -10.055 ± 0.089 $\chi^2/\text{NDF}: 2192.2/26$
 Out: -10.069 ± 0.087 $\chi^2/\text{NDF}: 5448.5/31$

All: -10.062 ± 0.062 $\chi^2/\text{NDF}: 7640.7/58$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.024 ± 0.386 χ^2/NDF : 1596.1/20

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 2.621 ± 0.386 χ^2/NDF : 2029.0/25

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

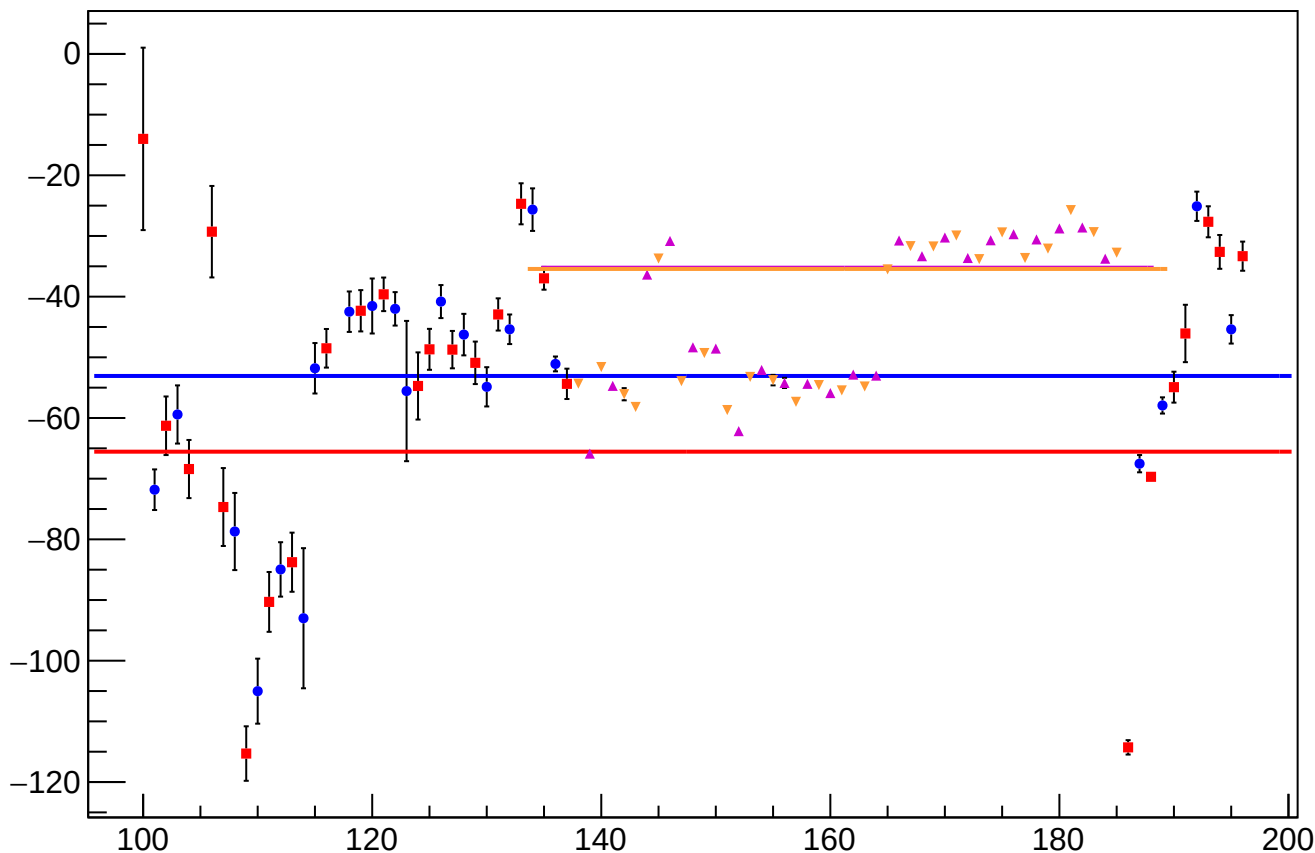
Right: 4.323 ± 0.273 χ^2/NDF : 3664.0/46

In: 7.016 ± 0.073 χ^2/NDF : 3138.8/43

Out: 7.025 ± 0.072 χ^2/NDF : 3081.2/50

All: 7.020 ± 0.051 χ^2/NDF : 6220.0/94

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.071 ± 0.557 χ^2/NDF : 598.3/20

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -65.550 ± 0.447 χ^2/NDF : 3201.9/25

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

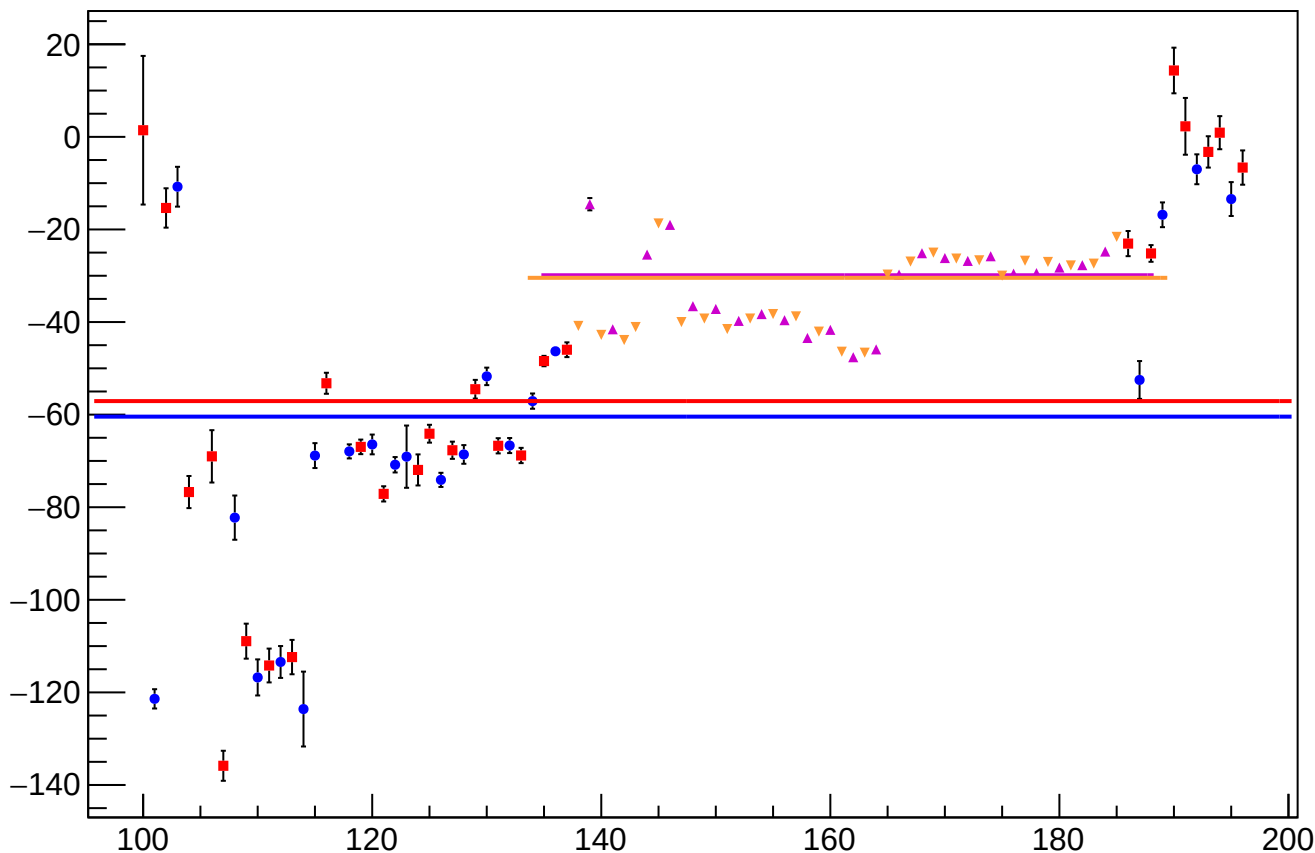
Right: -60.664 ± 0.348 χ^2/NDF : 4105.7/46

In: -35.684 ± 0.089 χ^2/NDF : 13201.4/43

Out: -36.584 ± 0.087 χ^2/NDF : 20355.3/50

All: -36.142 ± 0.062 χ^2/NDF : 33608.9/94

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -60.433+/-0.433 χ^2/NDF : 2761.2/20

Left Out: -30.448+/-0.082 χ^2/NDF : 8167.7/24

Right Out: -57.075+/-0.446 χ^2/NDF : 3316.8/25

Left In: -29.892+/-0.083 χ^2/NDF : 7115.0/22

Left: -30.174+/-0.058 χ^2/NDF : 15305.7/47

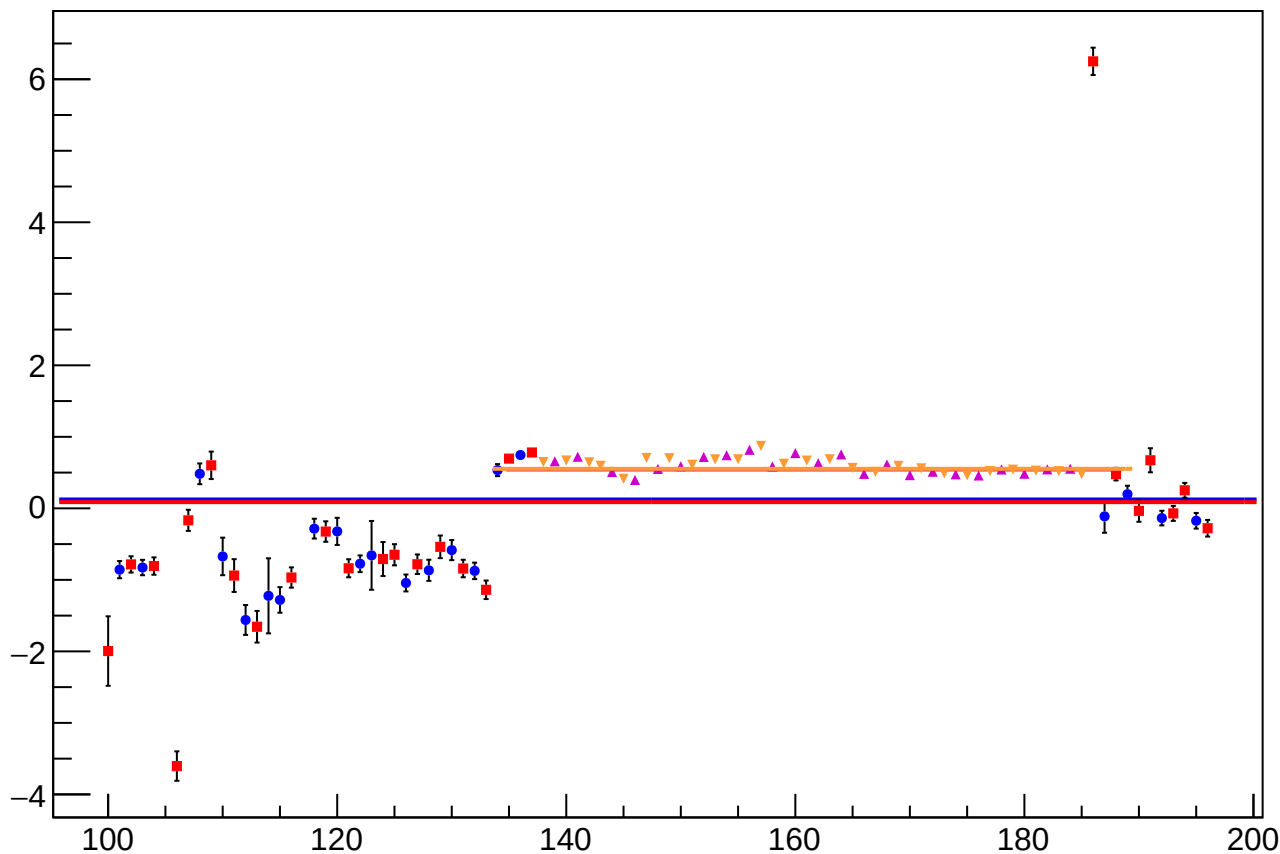
Right: -58.804+/-0.311 χ^2/NDF : 6107.1/46

In: -30.962+/-0.081 χ^2/NDF : 14669.6/43

Out: -31.308+/-0.080 χ^2/NDF : 14929.7/50

All: -31.137+/-0.057 χ^2/NDF : 29608.5/94

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.124 $\pm$ 0.022 χ^2 /NDF: 1004.1/20

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.087 $\pm$ 0.023 χ^2 /NDF: 2277.1/25

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

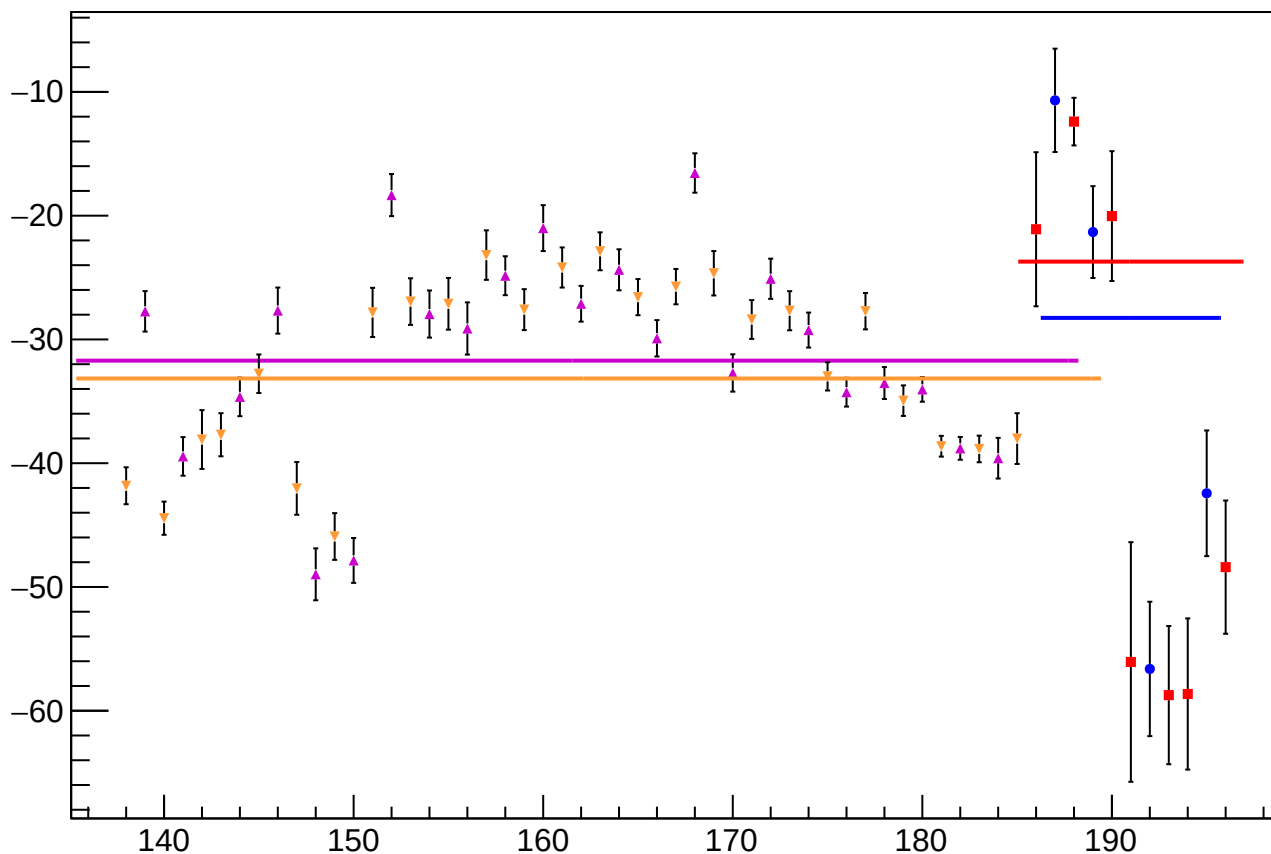
Right: 0.106 $\pm$ 0.016 χ^2 /NDF: 3282.5/46

In: 0.532 $\pm$ 0.004 χ^2 /NDF:2002.2/43

Out: 0.541 $\pm$ 0.004 χ^2 /NDF:3228.4/50

All: 0.536 $\pm$ 0.003 χ^2 /NDF: 5233.4/94

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.259 ± 2.221 $\chi^2/\text{NDF}: 56.3/3$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -23.711 ± 1.514 $\chi^2/\text{NDF}: 139.5/6$
 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: -25.153 ± 1.251 $\chi^2/\text{NDF}: 198.6/10$
 In: -31.649 ± 0.306 $\chi^2/\text{NDF}: 600.9/26$
 Out: -32.799 ± 0.294 $\chi^2/\text{NDF}: 677.0/31$

All: -32.246 ± 0.212 $\chi^2/\text{NDF}: 1285.3/58$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -49.925 ± 0.704 $\chi^2/\text{NDF}: 1562.2/20$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -53.705 ± 0.711 $\chi^2/\text{NDF}: 2308.6/25$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

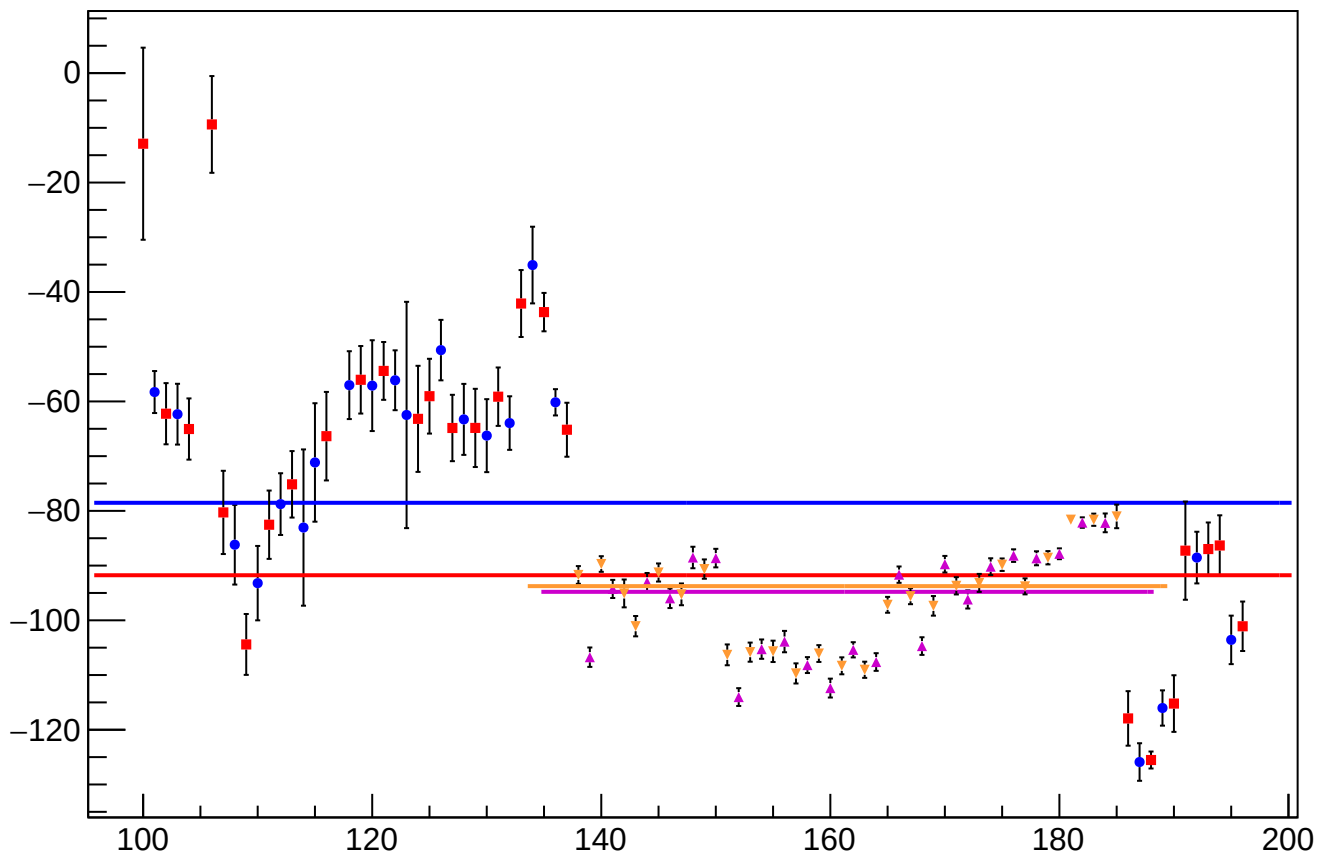
Right: -51.798 ± 0.500 $\chi^2/\text{NDF}: 3885.1/46$

In: -35.920 ± 0.236 $\chi^2/\text{NDF}: 3460.2/43$

Out: -36.296 ± 0.229 $\chi^2/\text{NDF}: 3673.0/50$

All: -36.115 ± 0.164 $\chi^2/\text{NDF}: 7134.6/94$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

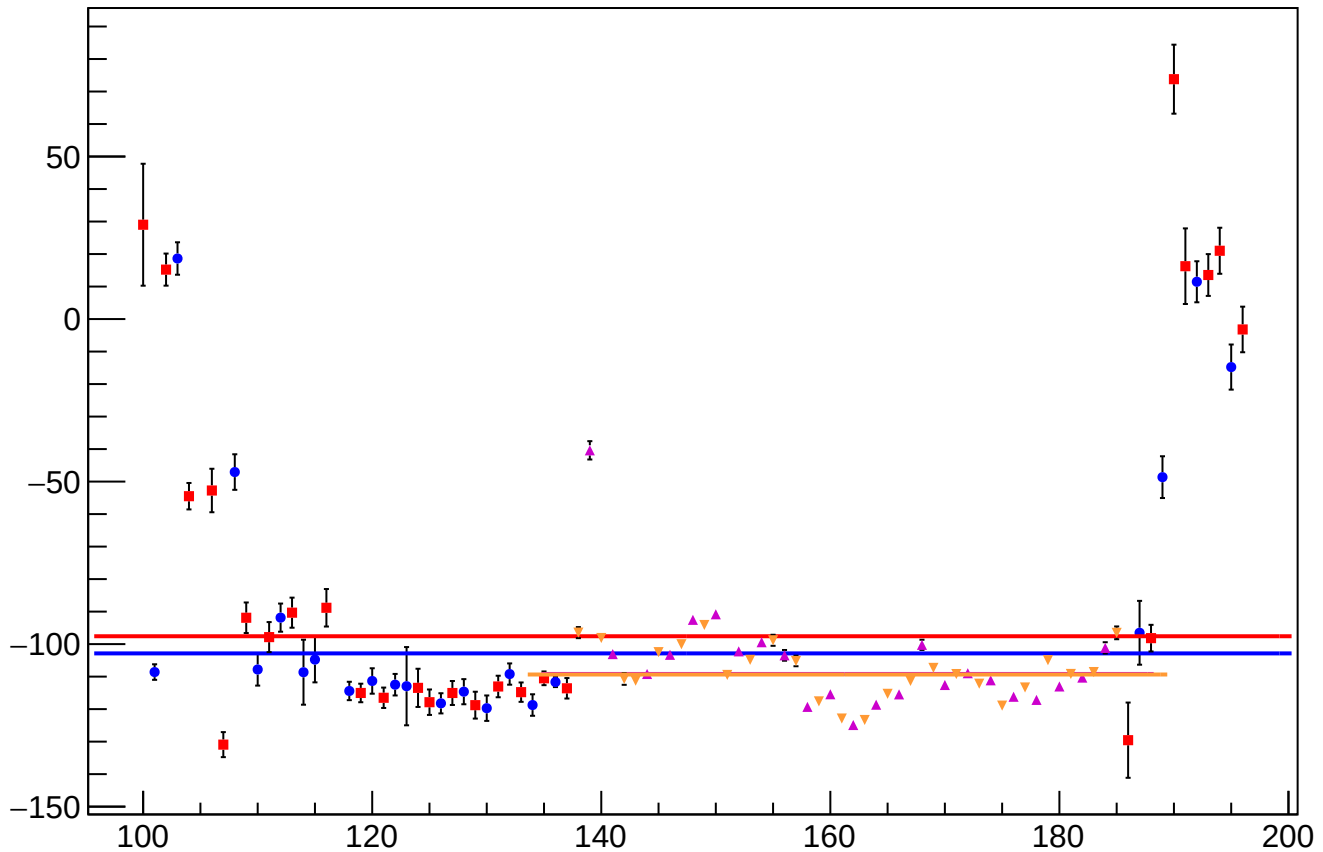


Right In: -78.523 ± 1.083 $\chi^2/\text{NDF}: 581.2/20$
 Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$
 Right Out: -91.762 ± 0.931 $\chi^2/\text{NDF}: 1182.6/25$
 Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$
 Right: -86.131 ± 0.706 $\chi^2/\text{NDF}: 1849.7/46$
 In: -93.574 ± 0.297 $\chi^2/\text{NDF}: 1764.9/43$
 Out: -93.565 ± 0.287 $\chi^2/\text{NDF}: 2069.8/50$

All: -93.569 ± 0.206 $\chi^2/\text{NDF}: 3834.6/94$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -102.857 ± 0.797 χ^2/NDF : 1412.2/20

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -97.581 ± 0.819 χ^2/NDF : 2206.1/25

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

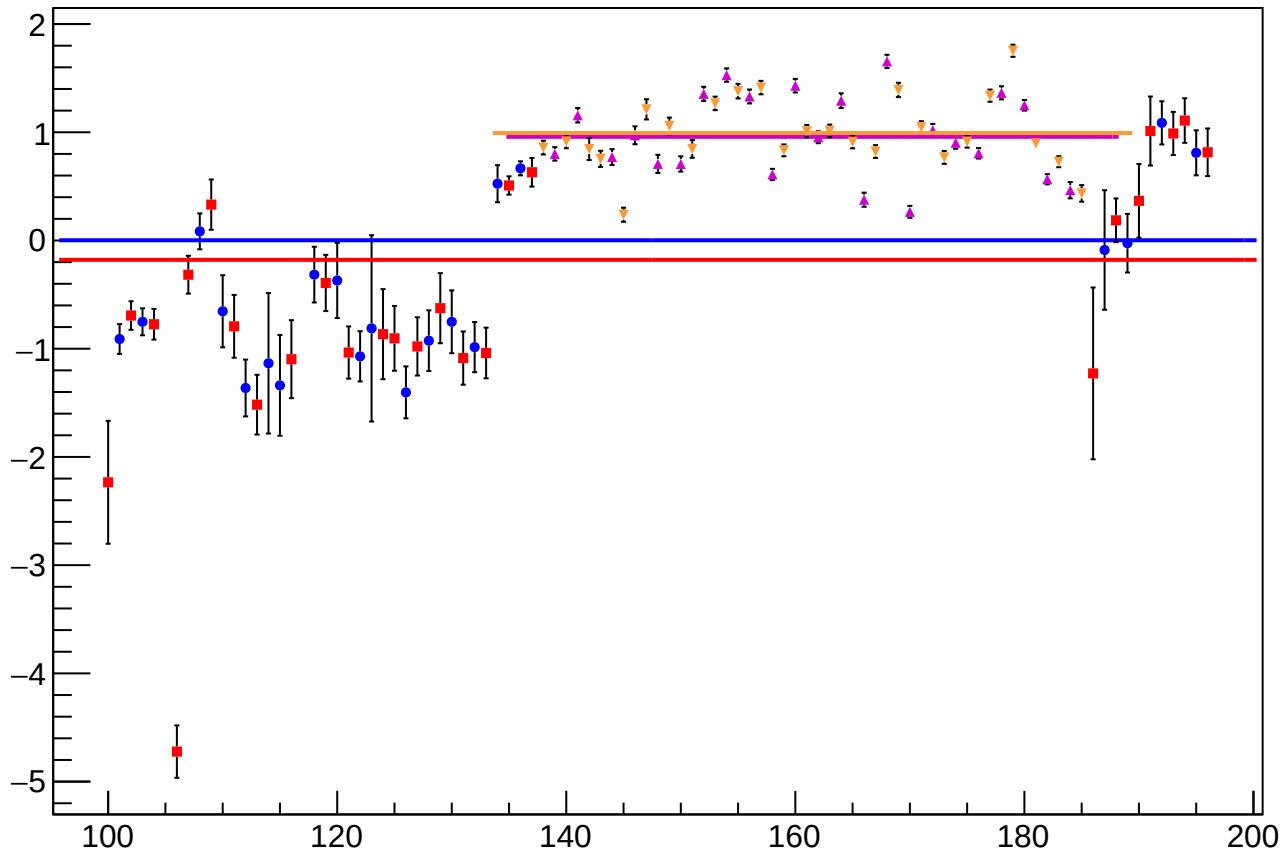
Right: -100.290 ± 0.571 χ^2/NDF : 3639.7/46

In: -108.490 ± 0.264 χ^2/NDF : 2969.4/43

Out: -108.187 ± 0.257 χ^2/NDF : 3219.2/50

All: -108.335 ± 0.184 χ^2/NDF : 6189.3/94

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.002 ± 0.040 χ^2/NDF : 376.9/20

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: -0.179 ± 0.040 χ^2/NDF : 716.3/25

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

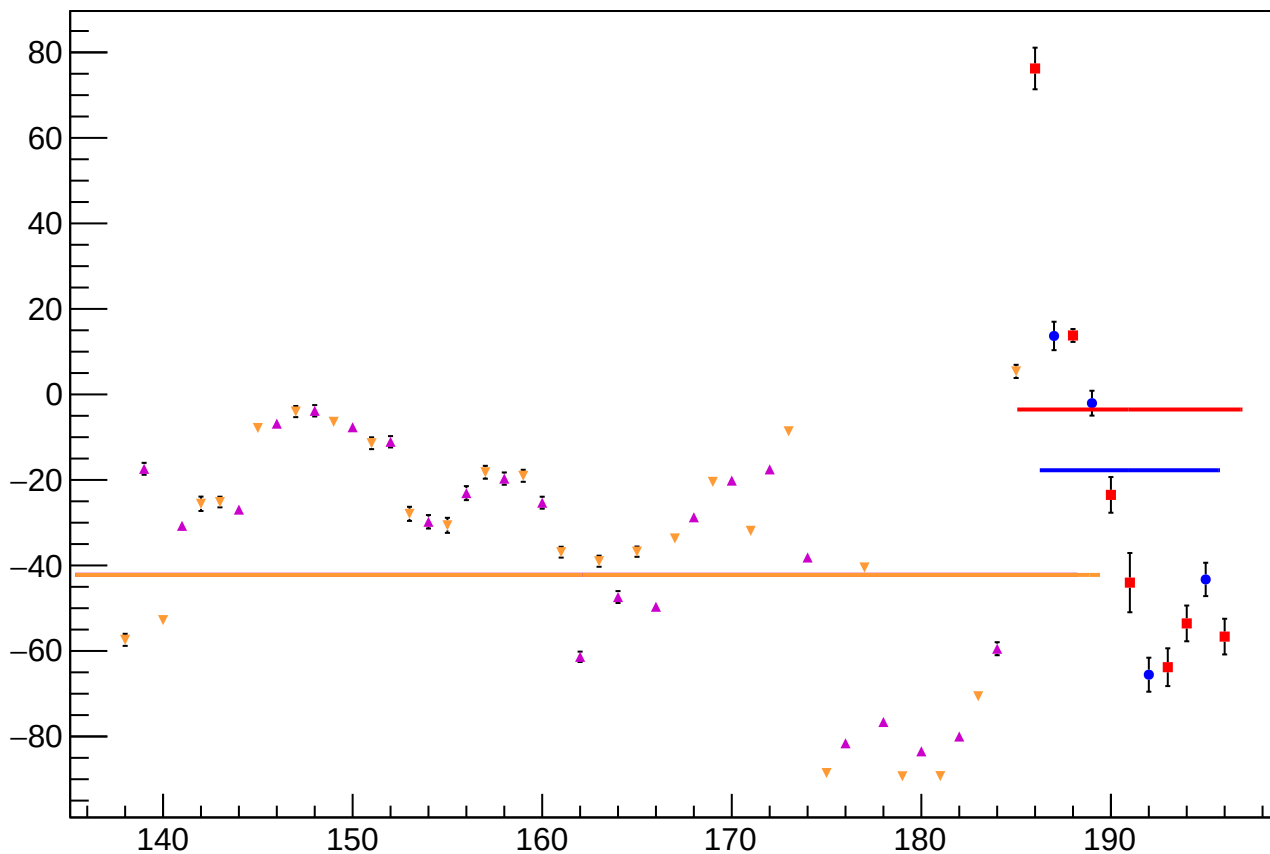
Right: -0.089 ± 0.028 χ^2/NDF : 1103.4/46

In: 0.871 ± 0.012 χ^2/NDF : 1789.8/43

Out: 0.889 ± 0.012 χ^2/NDF : 2142.5/50

All: 0.880 ± 0.008 χ^2/NDF : 3933.5/94

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.736 ± 1.721 χ^2/NDF : 305.8/3

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -3.528 ± 1.174 χ^2/NDF : 948.7/6

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

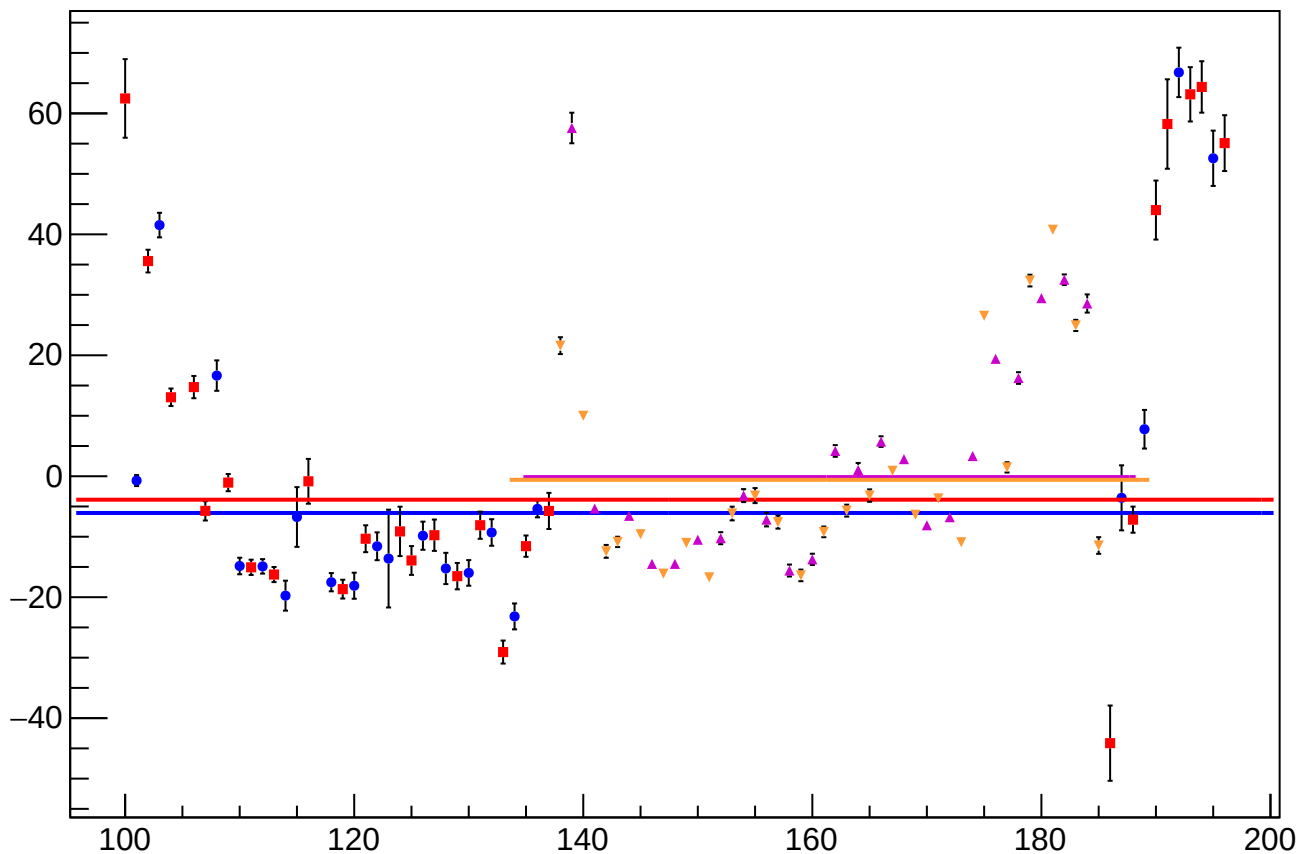
Right: -8.038 ± 0.970 χ^2/NDF : 1301.0/10

In: -41.758 ± 0.225 χ^2/NDF : 15080.0/26

Out: -40.876 ± 0.218 χ^2/NDF : 20307.0/31

All: -41.303 ± 0.157 χ^2/NDF : 35394.9/58

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

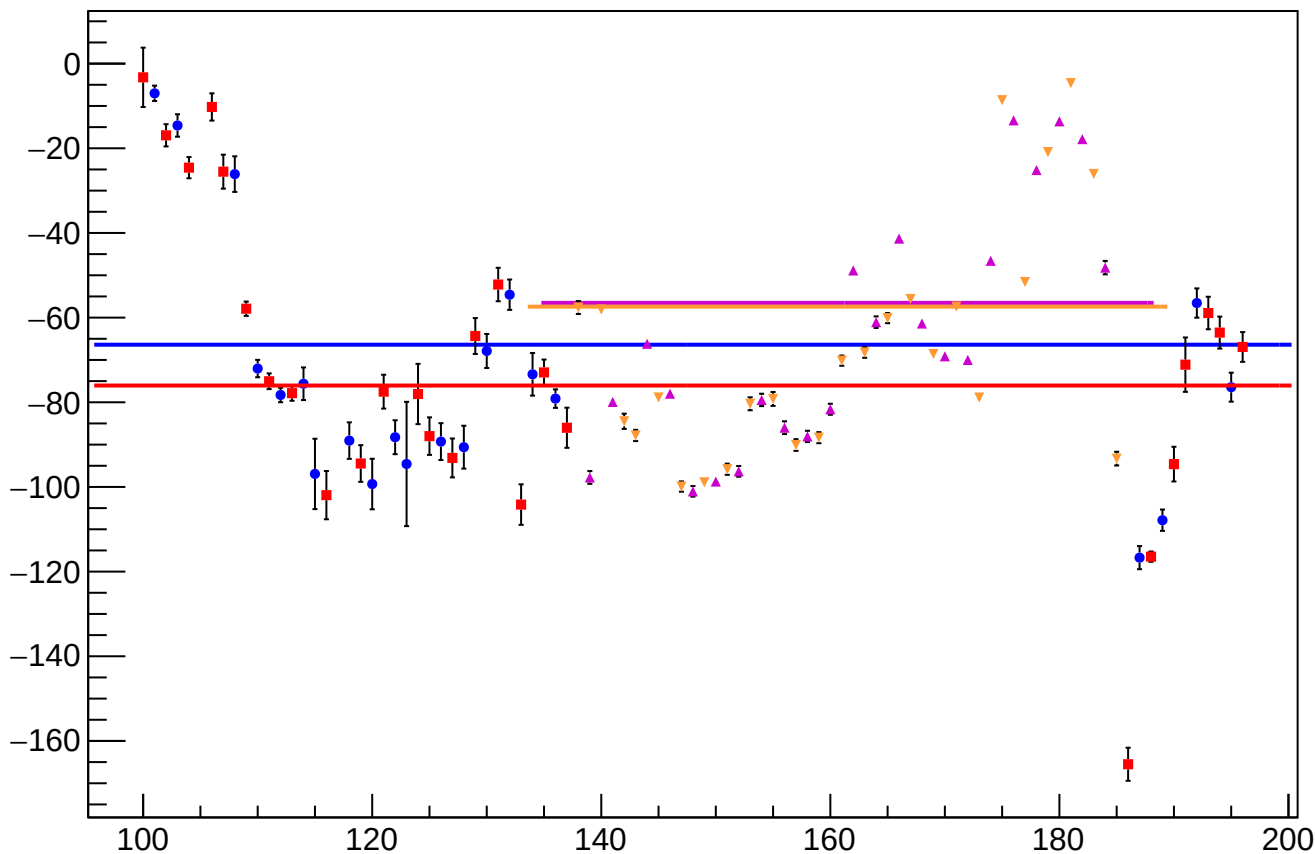


Right In: -6.072 ± 0.421 χ^2/NDF : 1490.6/20
 Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24
 Right Out: -3.878 ± 0.412 χ^2/NDF : 2176.6/25
 Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47
 Right: -4.951 ± 0.295 χ^2/NDF : 3681.0/46
 In: -1.049 ± 0.165 χ^2/NDF : 8520.7/43
 Out: -1.088 ± 0.161 χ^2/NDF : 10981.4/50

All: -1.069 ± 0.115 χ^2/NDF : 19502.1/94

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.401 ± 0.666 χ^2/NDF : 2432.8/20

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -76.043 ± 0.572 χ^2/NDF : 3555.0/25

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

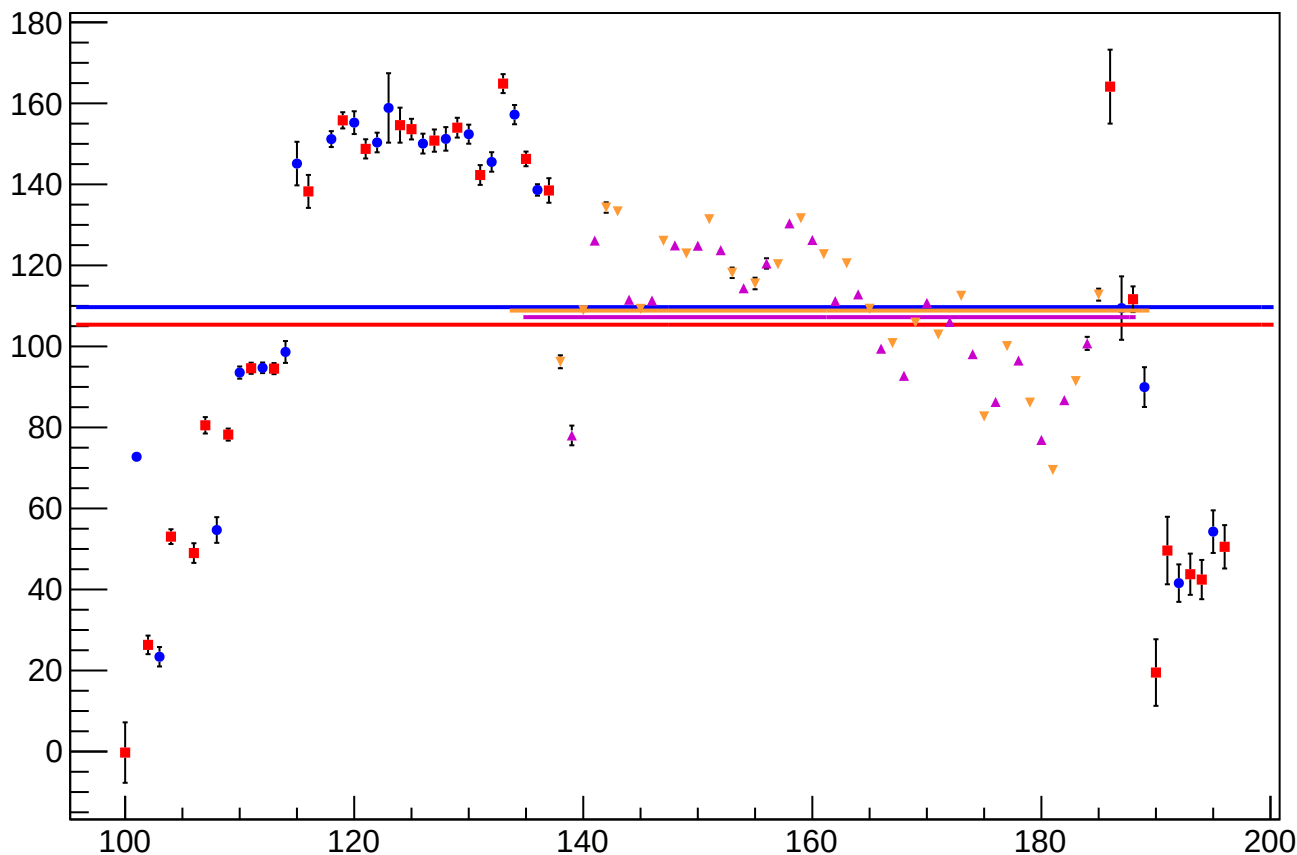
Right: -71.950 ± 0.434 χ^2/NDF : 6108.3/46

In: -57.547 ± 0.215 χ^2/NDF : 18982.4/43

Out: -59.873 ± 0.208 χ^2/NDF : 23079.0/50

All: -58.748 ± 0.149 χ^2/NDF : 42121.9/94

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 109.696 ± 0.482 $\chi^2/\text{NDF}: 6216.5/20$

Left Out: 108.846 ± 0.197 $\chi^2/\text{NDF}: 7400.2/24$

Right Out: 105.362 ± 0.474 $\chi^2/\text{NDF}: 7676.4/25$

Left In: 107.225 ± 0.202 $\chi^2/\text{NDF}: 5565.3/22$

Left: 108.056 ± 0.141 $\chi^2/\text{NDF}: 12998.4/47$

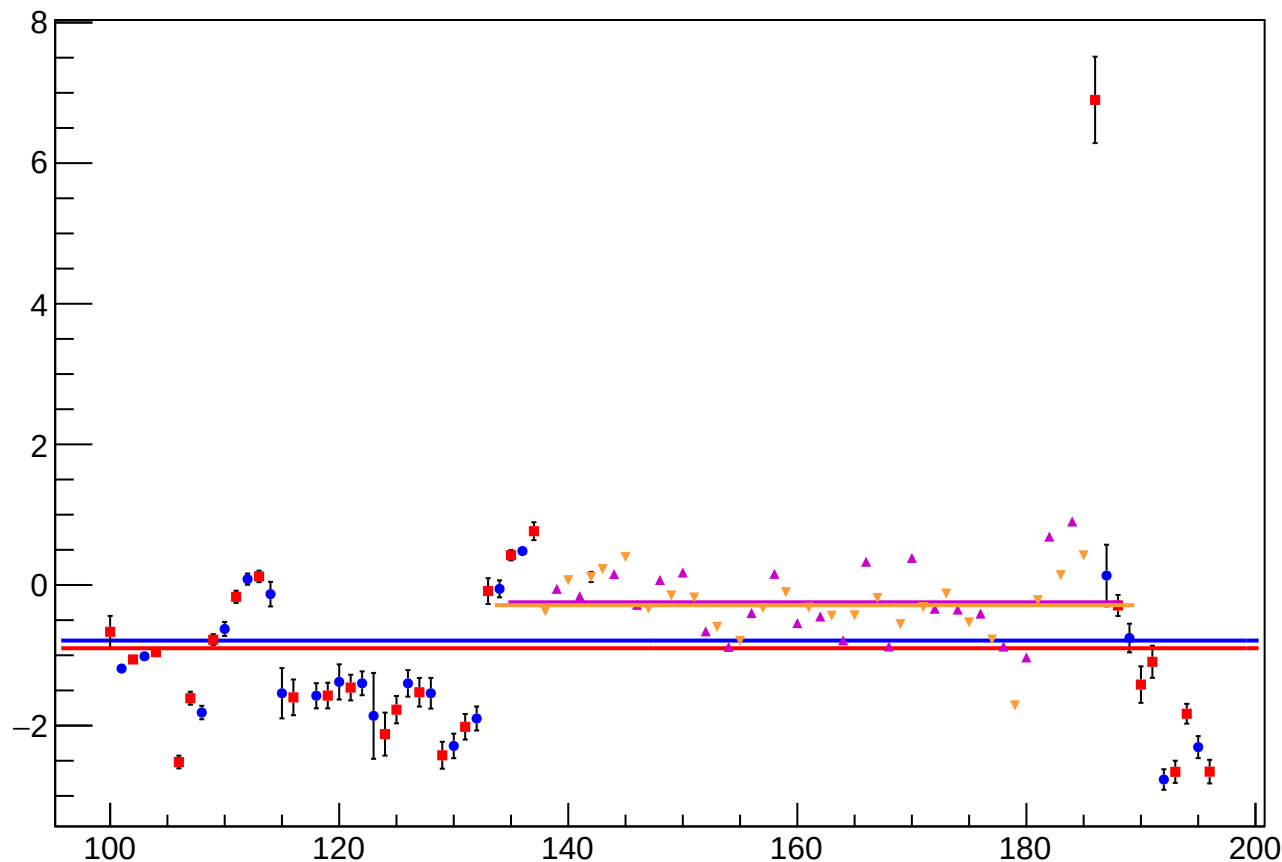
Right: 107.494 ± 0.338 $\chi^2/\text{NDF}: 13934.0/46$

In: 107.595 ± 0.187 $\chi^2/\text{NDF}: 11804.1/43$

Out: 108.332 ± 0.182 $\chi^2/\text{NDF}: 15122.7/50$

All: 107.972 ± 0.130 $\chi^2/\text{NDF}: 26934.8/94$

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.791 ± 0.025 $\chi^2/\text{NDF}: 1284.2/20$

Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$

Right Out: -0.900 ± 0.023 $\chi^2/\text{NDF}: 1773.6/25$

Left In: -0.247 ± 0.009 $\chi^2/\text{NDF}: 2792.8/22$

Left: -0.267 ± 0.006 $\chi^2/\text{NDF}: 4855.3/47$

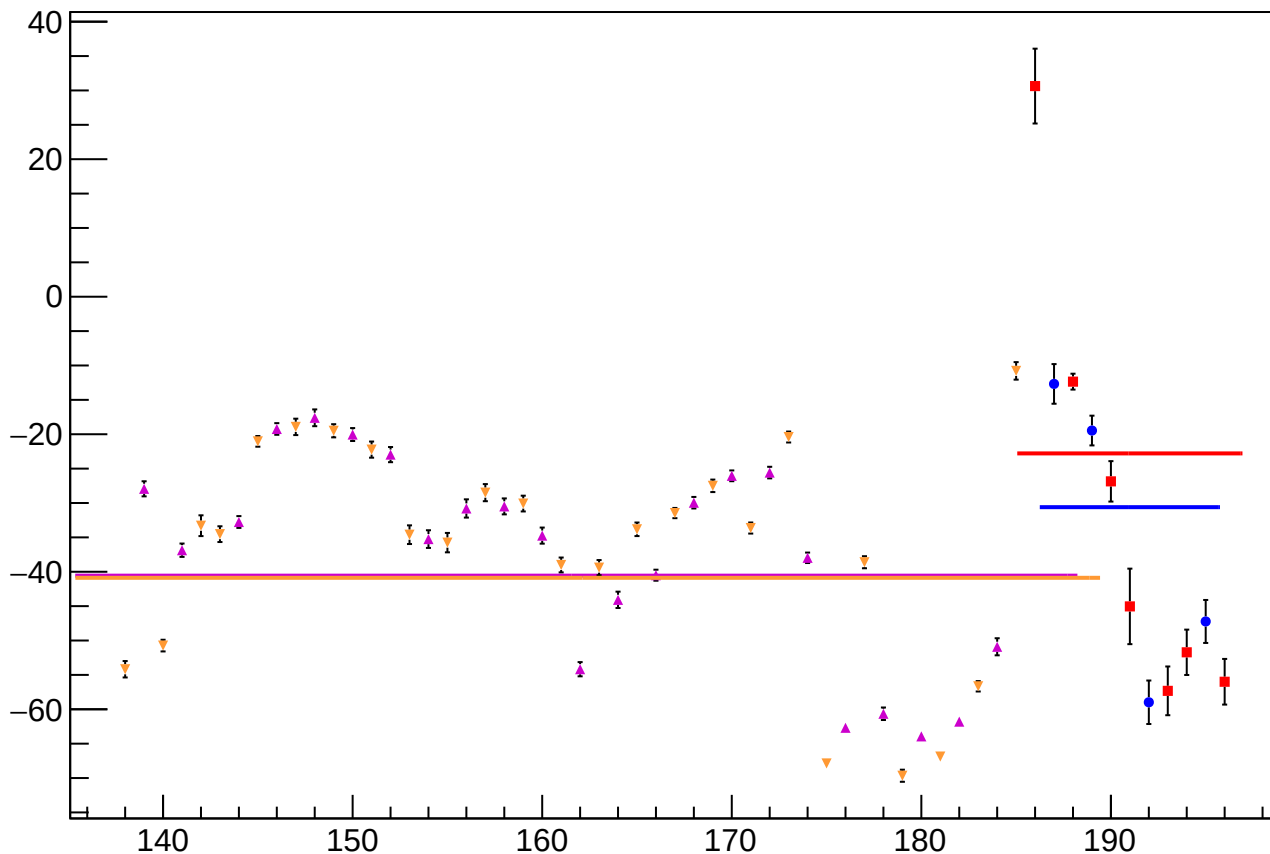
Right: -0.850 ± 0.017 $\chi^2/\text{NDF}: 3068.2/46$

In: -0.313 ± 0.009 $\chi^2/\text{NDF}: 4496.4/43$

Out: -0.369 ± 0.008 $\chi^2/\text{NDF}: 4441.0/50$

All: -0.342 ± 0.006 $\chi^2/\text{NDF}: 8959.4/94$

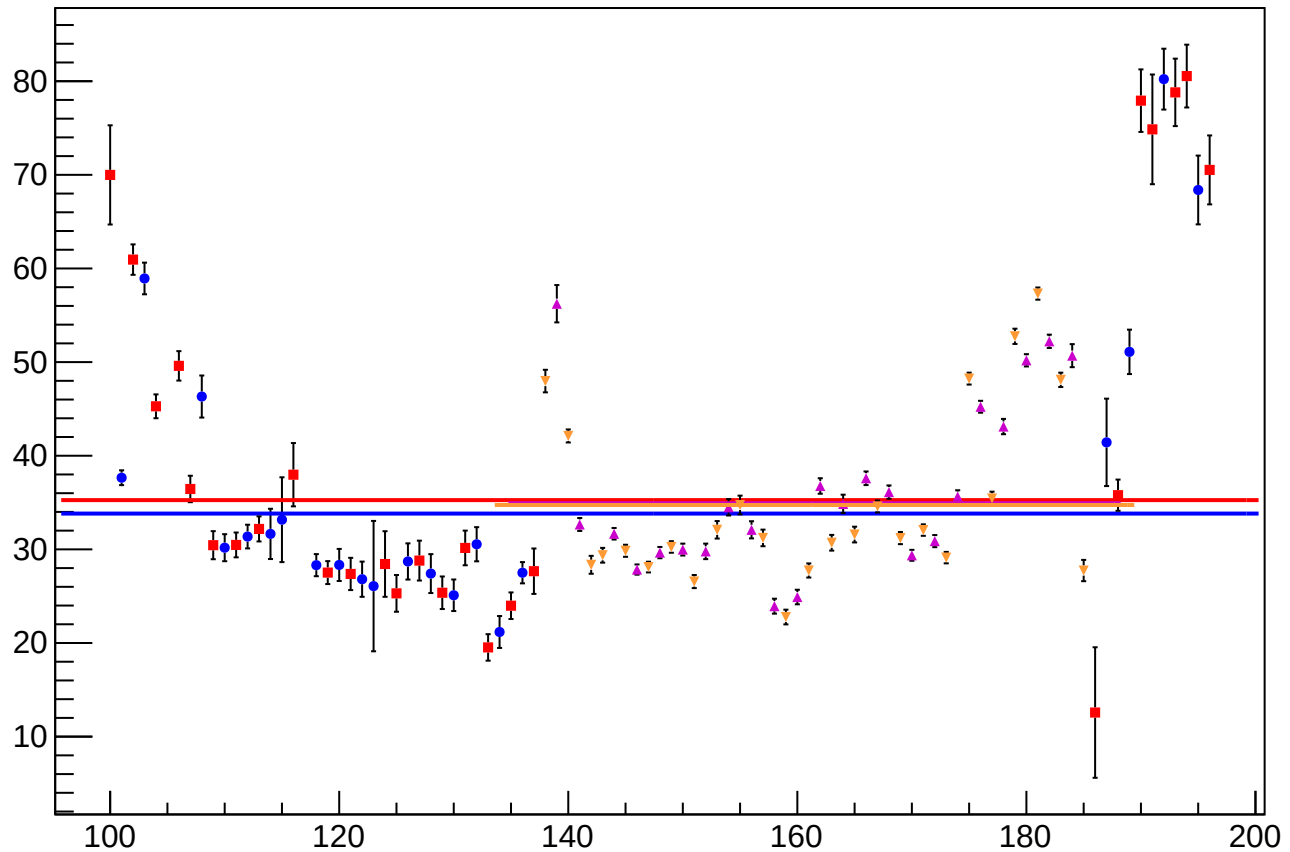
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.607 ± 1.365 $\chi^2/\text{NDF}: 174.0/3$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -22.788 ± 0.915 $\chi^2/\text{NDF}: 468.2/6$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -25.211 ± 0.760 $\chi^2/\text{NDF}: 664.9/10$
 In: -40.378 ± 0.188 $\chi^2/\text{NDF}: 7181.0/26$
 Out: -40.161 ± 0.182 $\chi^2/\text{NDF}: 9966.9/31$
 All: -40.266 ± 0.131 $\chi^2/\text{NDF}: 17148.6/58$

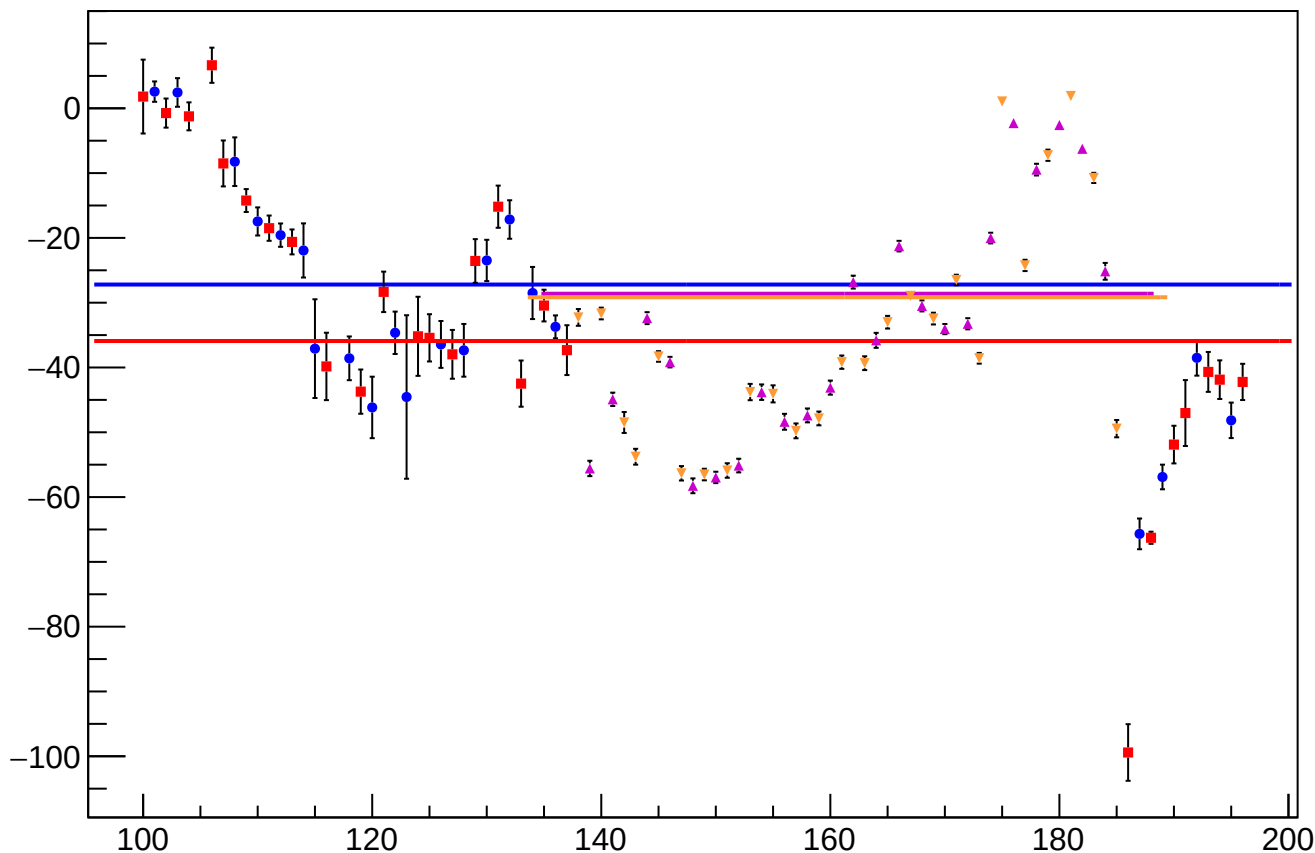
reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.822 ± 0.366 $\chi^2/\text{NDF}: 813.7/20$
 Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$
 Right Out: 35.260 ± 0.361 $\chi^2/\text{NDF}: 1444.2/25$
 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: 34.552 ± 0.257 $\chi^2/\text{NDF}: 2265.8/46$
 In: 34.761 ± 0.140 $\chi^2/\text{NDF}: 3494.3/43$
 Out: 34.815 ± 0.136 $\chi^2/\text{NDF}: 5139.2/50$
 All: 34.789 ± 0.098 $\chi^2/\text{NDF}: 8633.5/94$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.198 ± 0.582 χ^2/NDF : 1261.2/20

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -35.913 ± 0.493 χ^2/NDF : 2535.9/25

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

Right: -32.266 ± 0.376 χ^2/NDF : 3927.7/46

In: -28.480 ± 0.180 χ^2/NDF : 10307.5/43

Out: -30.011 ± 0.175 χ^2/NDF : 12825.6/50

All: -29.269 ± 0.126 χ^2/NDF : 23170.2/94

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 71.414 $\pm$ 0.420 χ^2 /NDF: 4860.8/20

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 69.248 $\pm$ 0.418 χ^2 /NDF: 5906.3/25

Left In: 69.387 $\pm$ 0.170 χ^2 /NDF:3321.8/22

Left: 69.989 $\pm$ 0.119 χ^2 /NDF: 7935.4/47

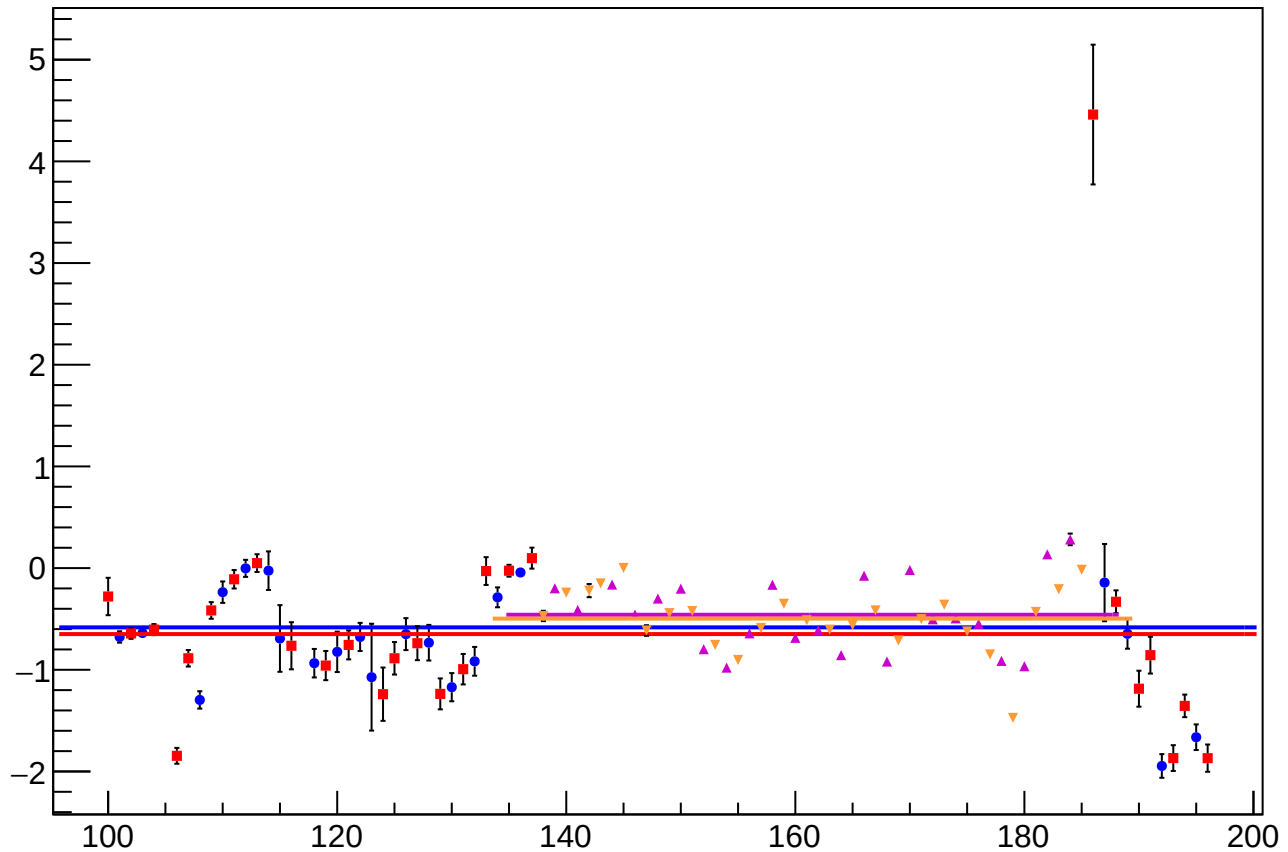
Right: 70.324 $\pm$ 0.296 χ^2 /NDF: 10780.5/46

In: 69.673 $\pm$ 0.158 χ^2 /NDF:8202.6/43

Out: 70.383 $\pm$ 0.154 χ^2 /NDF:10504.0/50

All: 70.035 $\pm$ 0.110 χ^2 /NDF: 18717.0/94

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.583 ± 0.021 χ^2/NDF : 528.7/20

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.649 ± 0.020 χ^2/NDF : 866.2/25

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

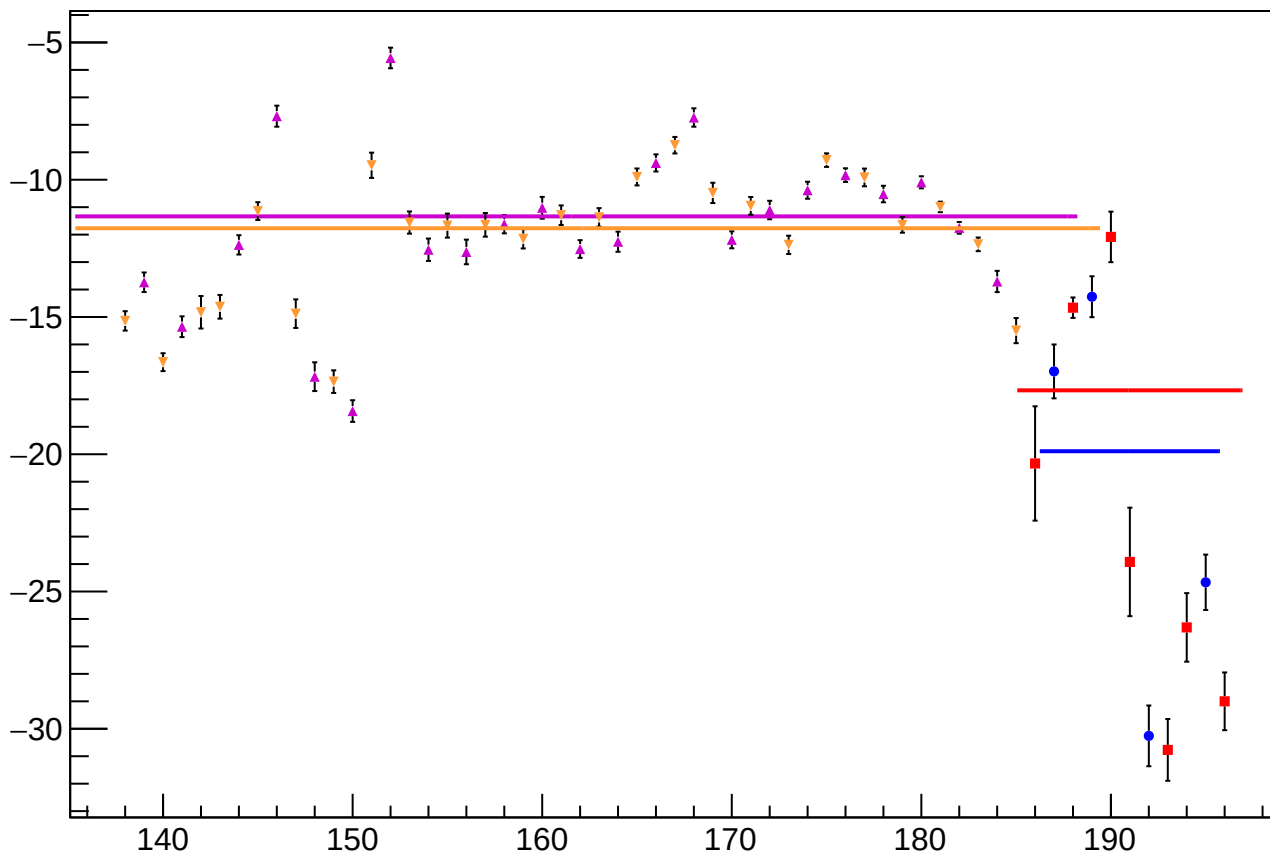
Right: -0.618 ± 0.015 χ^2/NDF : 1400.0/46

In: -0.473 ± 0.007 χ^2/NDF : 2516.9/43

Out: -0.516 ± 0.007 χ^2/NDF : 2366.4/50

All: -0.495 ± 0.005 χ^2/NDF : 4901.0/94

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.890 ± 0.464 χ^2/NDF : 176.1/3
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -17.672 ± 0.299 χ^2/NDF : 413.3/6
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -18.321 ± 0.251 χ^2/NDF : 605.5/10
 In: -11.516 ± 0.067 χ^2/NDF : 1777.8/26
 Out: -12.047 ± 0.065 χ^2/NDF : 1806.8/31

All: -11.791 ± 0.047 χ^2/NDF : 3616.9/58

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.588 ± 0.146 χ^2/NDF : 1570.7/20

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -34.964 ± 0.140 χ^2/NDF : 2128.0/25

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

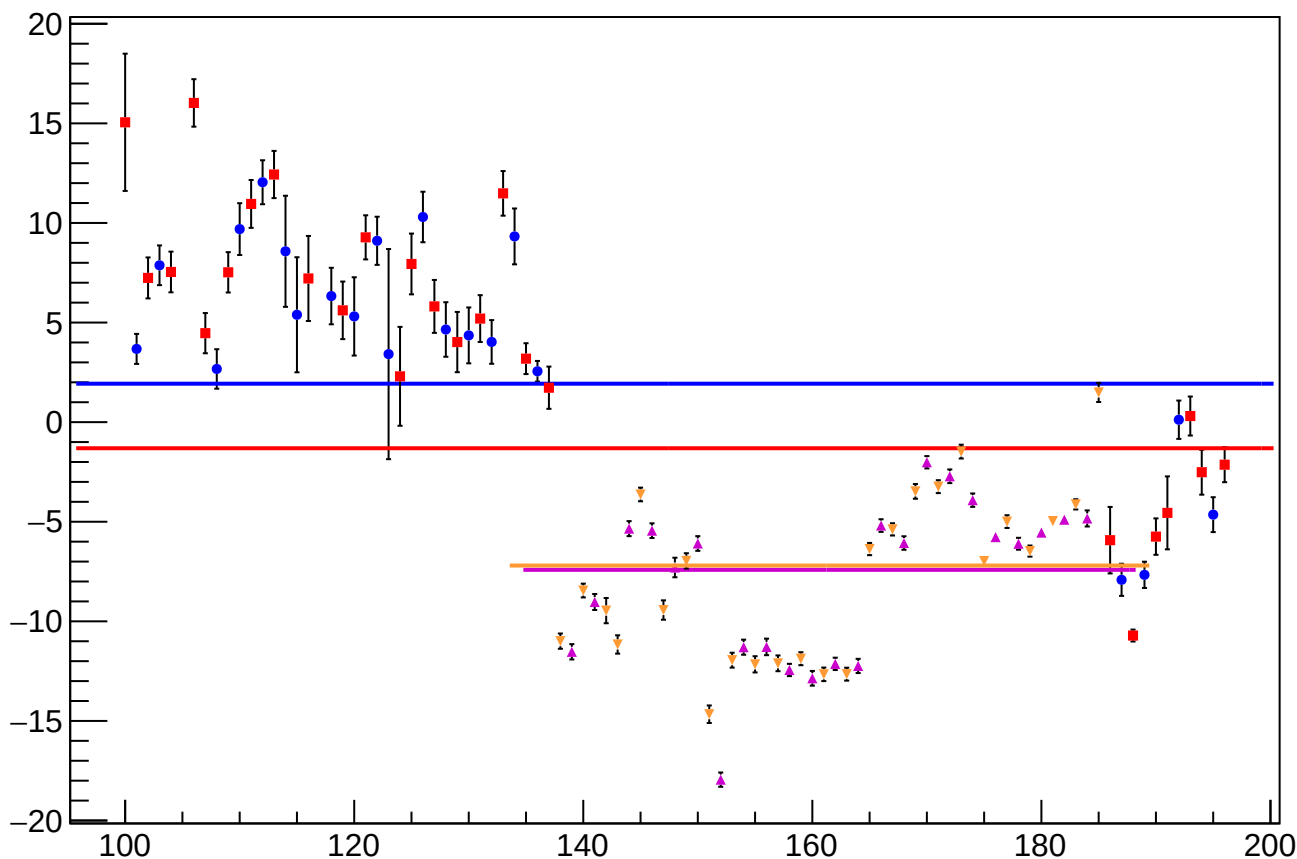
Right: -34.784 ± 0.101 χ^2/NDF : 3702.1/46

In: -30.685 ± 0.052 χ^2/NDF : 3609.8/43

Out: -30.821 ± 0.050 χ^2/NDF : 3860.1/50

All: -30.755 ± 0.036 χ^2/NDF : 7473.5/94

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.930 ± 0.224 $\chi^2/\text{NDF}: 720.0/20$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.310 ± 0.185 $\chi^2/\text{NDF}: 2159.2/25$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -0.001 ± 0.143 $\chi^2/\text{NDF}: 3003.5/46$
 In: -6.632 ± 0.065 $\chi^2/\text{NDF}: 5432.8/43$
 Out: -6.516 ± 0.063 $\chi^2/\text{NDF}: 6095.2/50$
 All: -6.572 ± 0.045 $\chi^2/\text{NDF}: 11529.6/94$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.992 ± 0.166 $\chi^2/\text{NDF}: 2299.6/20$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -4.009 ± 0.164 $\chi^2/\text{NDF}: 2696.4/25$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

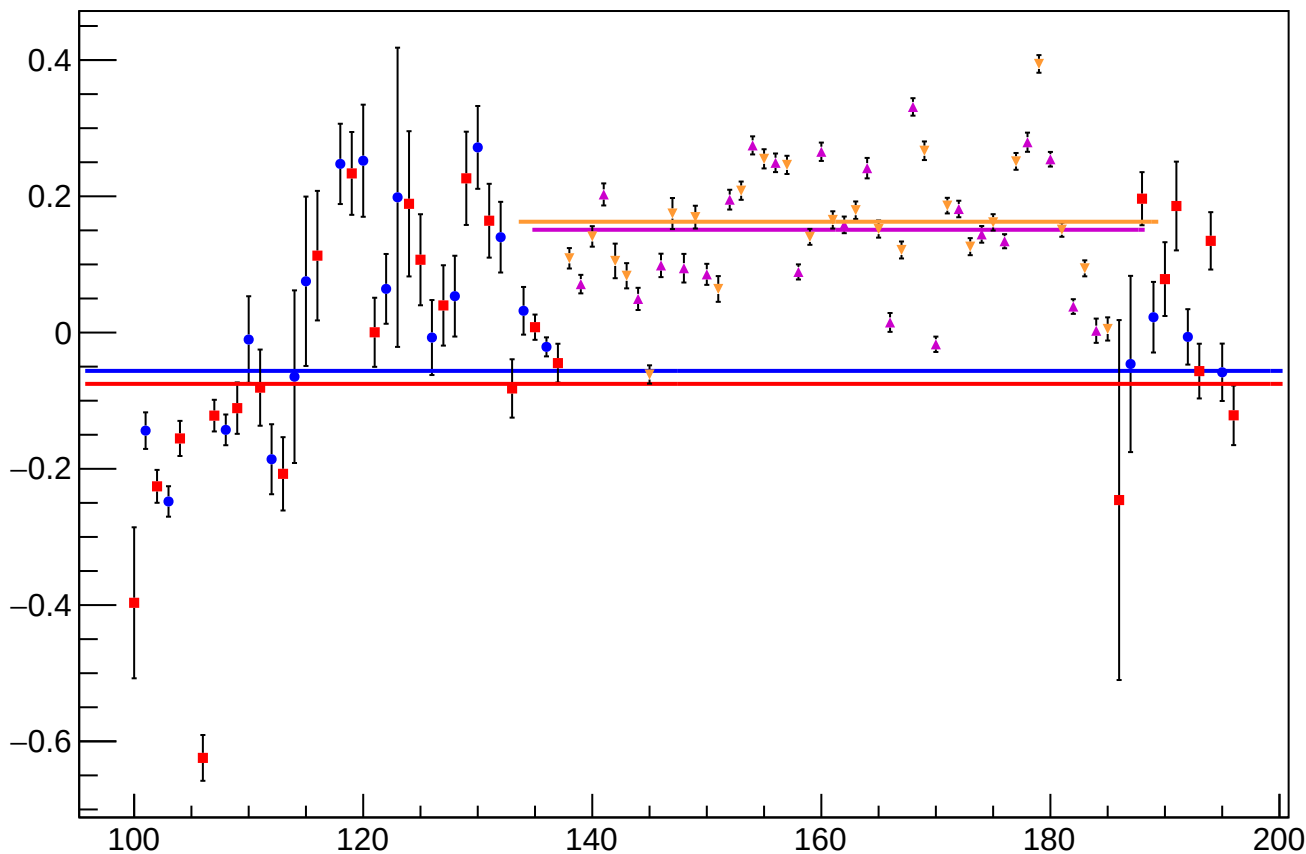
Right: -4.494 ± 0.117 $\chi^2/\text{NDF}: 5013.7/46$

In: -8.429 ± 0.058 $\chi^2/\text{NDF}: 4318.1/43$

Out: -8.383 ± 0.056 $\chi^2/\text{NDF}: 4379.8/50$

All: -8.405 ± 0.040 $\chi^2/\text{NDF}: 8698.2/94$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.056 ± 0.008 χ^2/NDF : 218.6/20

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.075 ± 0.008 χ^2/NDF : 543.6/25

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

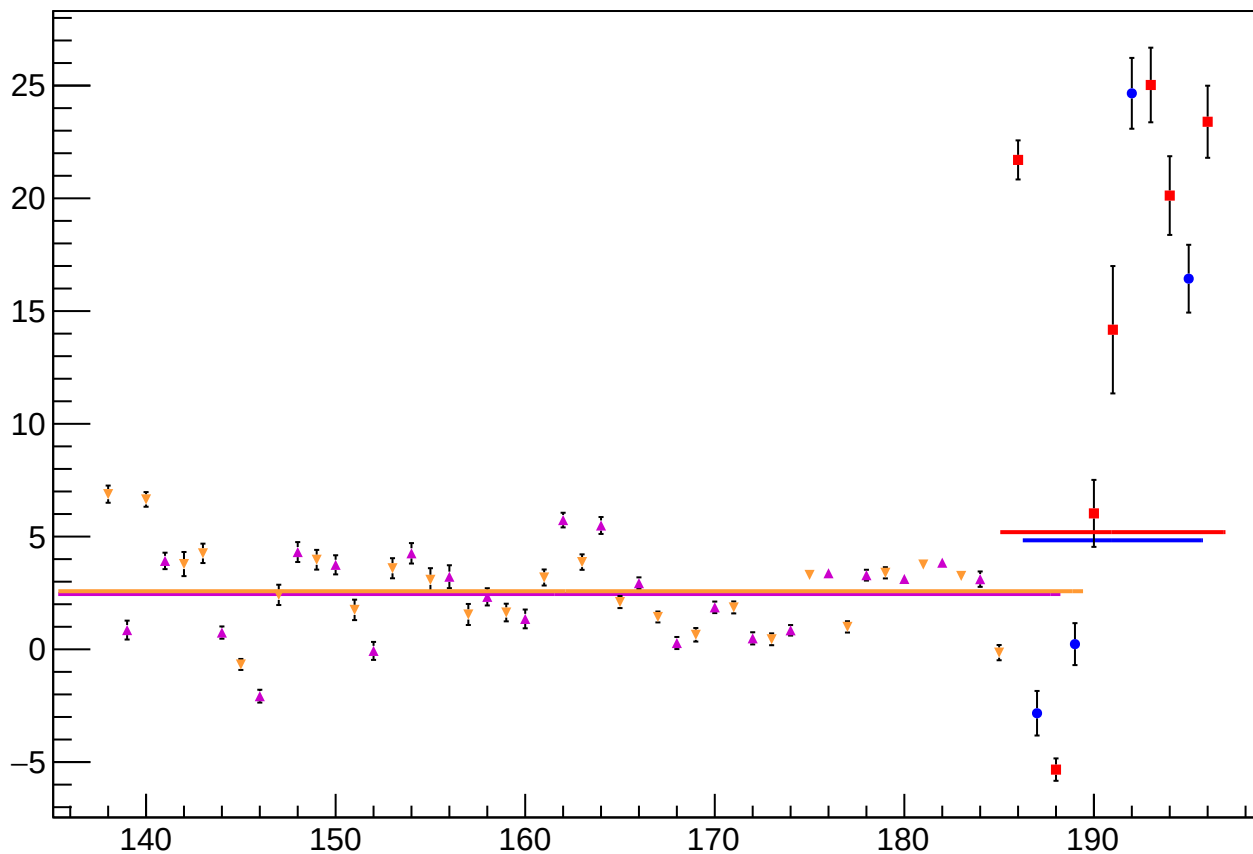
Right: -0.066 ± 0.006 χ^2/NDF : 765.2/46

In: 0.129 ± 0.003 χ^2/NDF : 2108.1/43

Out: 0.136 ± 0.003 χ^2/NDF : 2415.8/50

All: 0.132 ± 0.002 χ^2/NDF : 4527.9/94

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.834 $\pm$ 0.575 χ^2 /NDF: 303.5/3

Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24

Right Out: 5.197 $\pm$ 0.376 χ^2 /NDF: 1169.8/6

Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47

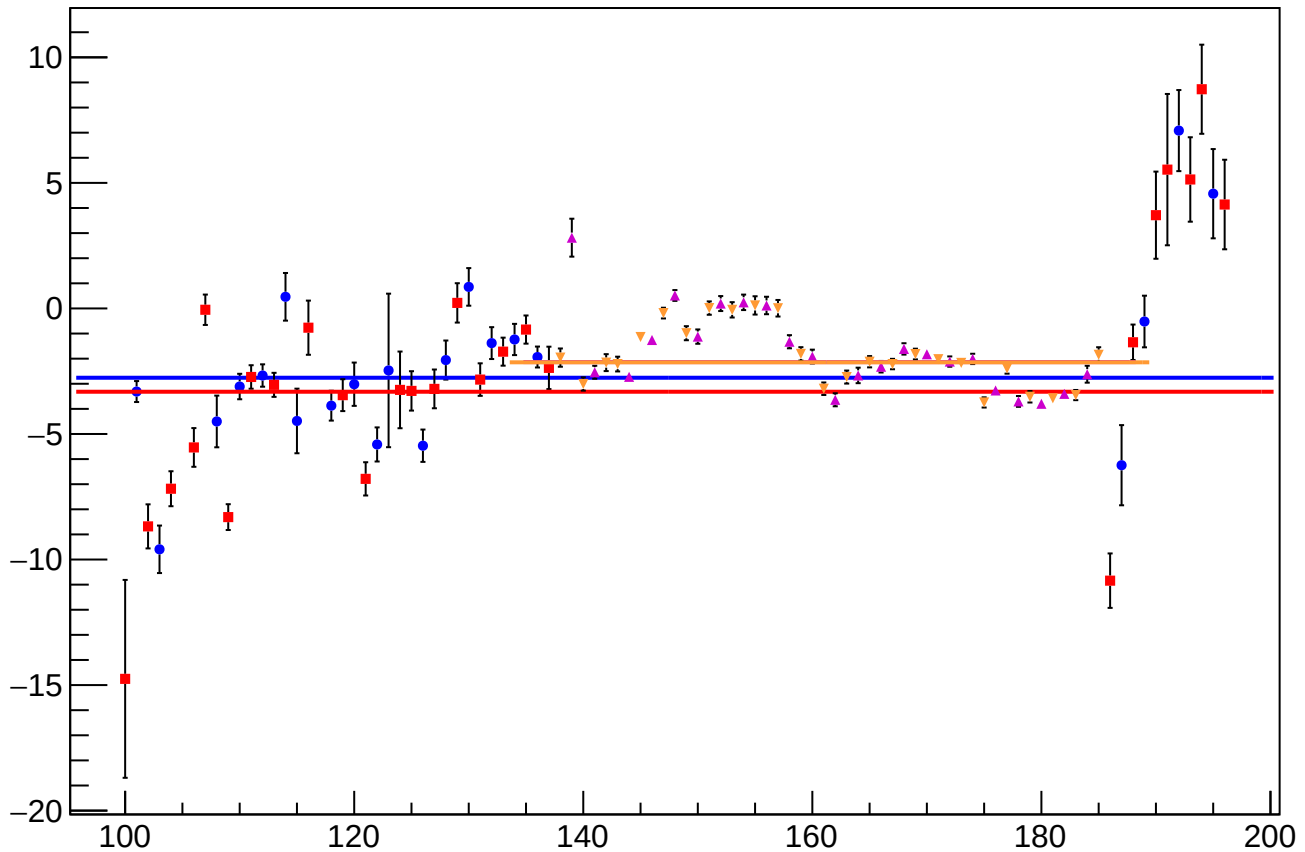
Right: 5.088 $\pm$ 0.315 χ^2 /NDF: 1473.6/10

In: 2.477 $\pm$ 0.059 χ^2 /NDF:1191.7/26

Out: 2.638 $\pm$ 0.058 χ^2 /NDF:2084.6/31

All: 2.560 $\pm$ 0.041 χ^2 /NDF: 3280.1/58

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.760 ± 0.151 $\chi^2/\text{NDF}: 209.7/20$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -3.317 ± 0.147 $\chi^2/\text{NDF}: 463.1/25$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

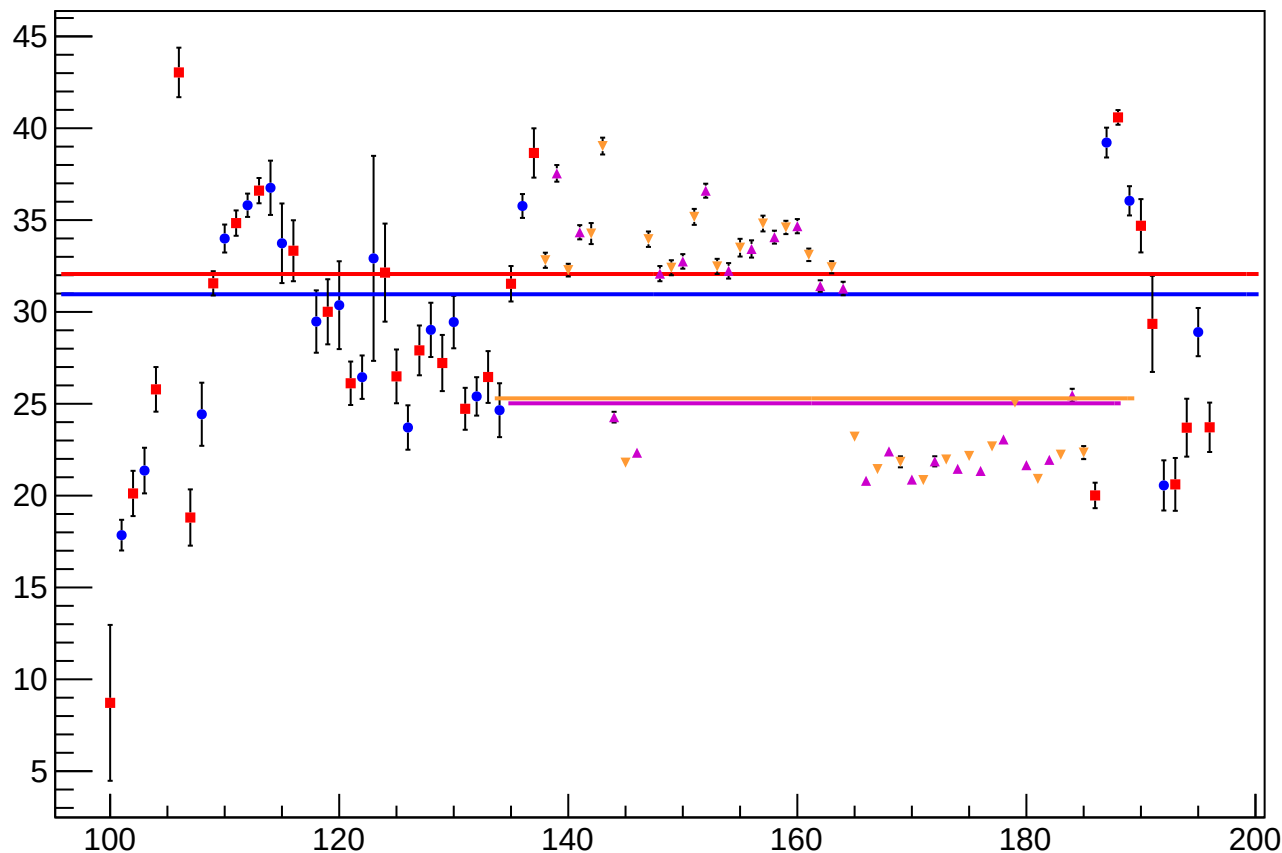
Right: -3.046 ± 0.106 $\chi^2/\text{NDF}: 679.7/46$

In: -2.194 ± 0.046 $\chi^2/\text{NDF}: 916.3/43$

Out: -2.256 ± 0.045 $\chi^2/\text{NDF}: 1093.6/50$

All: -2.226 ± 0.032 $\chi^2/\text{NDF}: 2010.9/94$

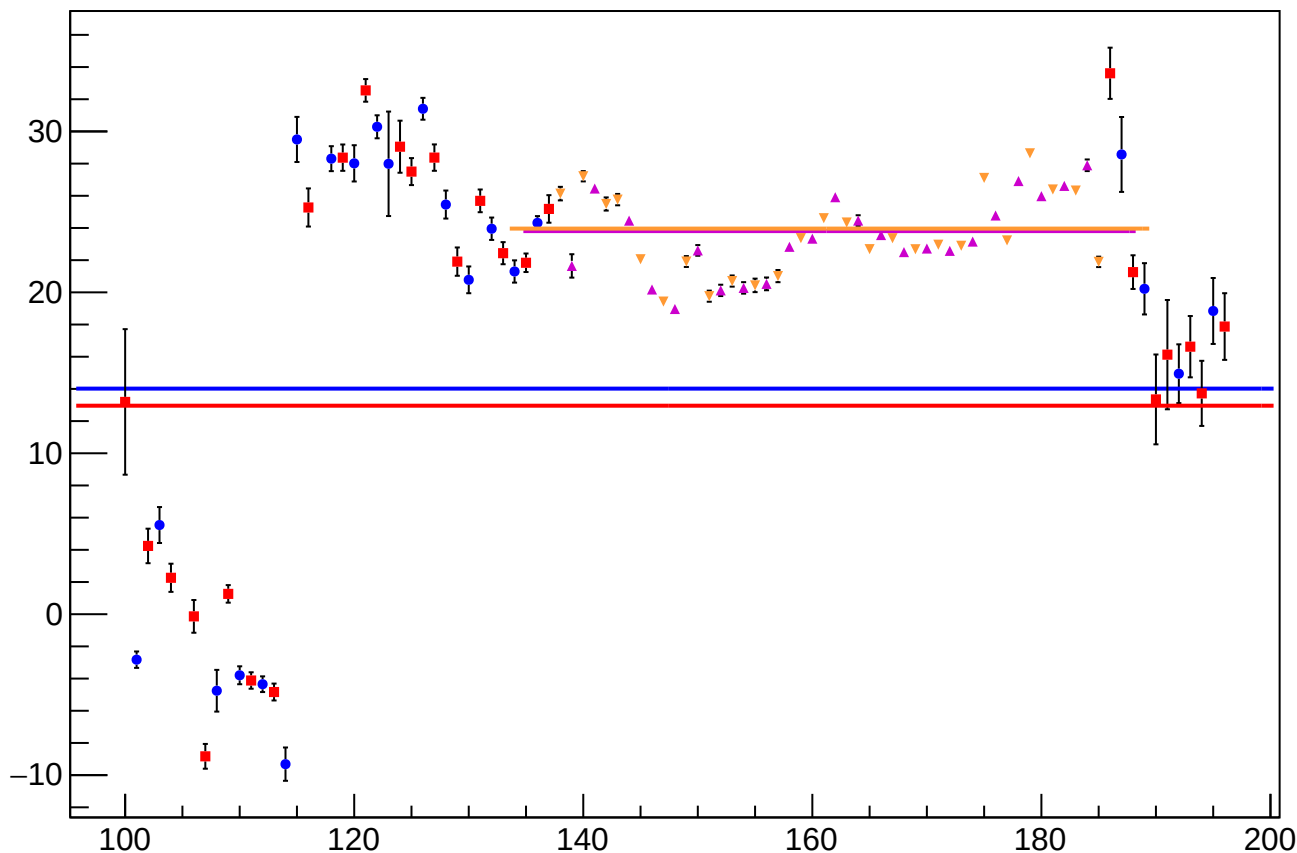
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.962 ± 0.235 $\chi^2/\text{NDF}: 772.2/20$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 32.064 ± 0.199 $\chi^2/\text{NDF}: 1385.8/25$
 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: 31.602 ± 0.152 $\chi^2/\text{NDF}: 2170.8/46$
 In: 25.385 ± 0.058 $\chi^2/\text{NDF}: 8983.8/43$
 Out: 25.838 ± 0.056 $\chi^2/\text{NDF}: 10717.2/50$
 All: 25.617 ± 0.040 $\chi^2/\text{NDF}: 19732.5/94$

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.018 $\pm$ 0.170 χ^2 /NDF: 7336.0/20

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.956 $\pm$ 0.168 χ^2 /NDF: 7204.9/25

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

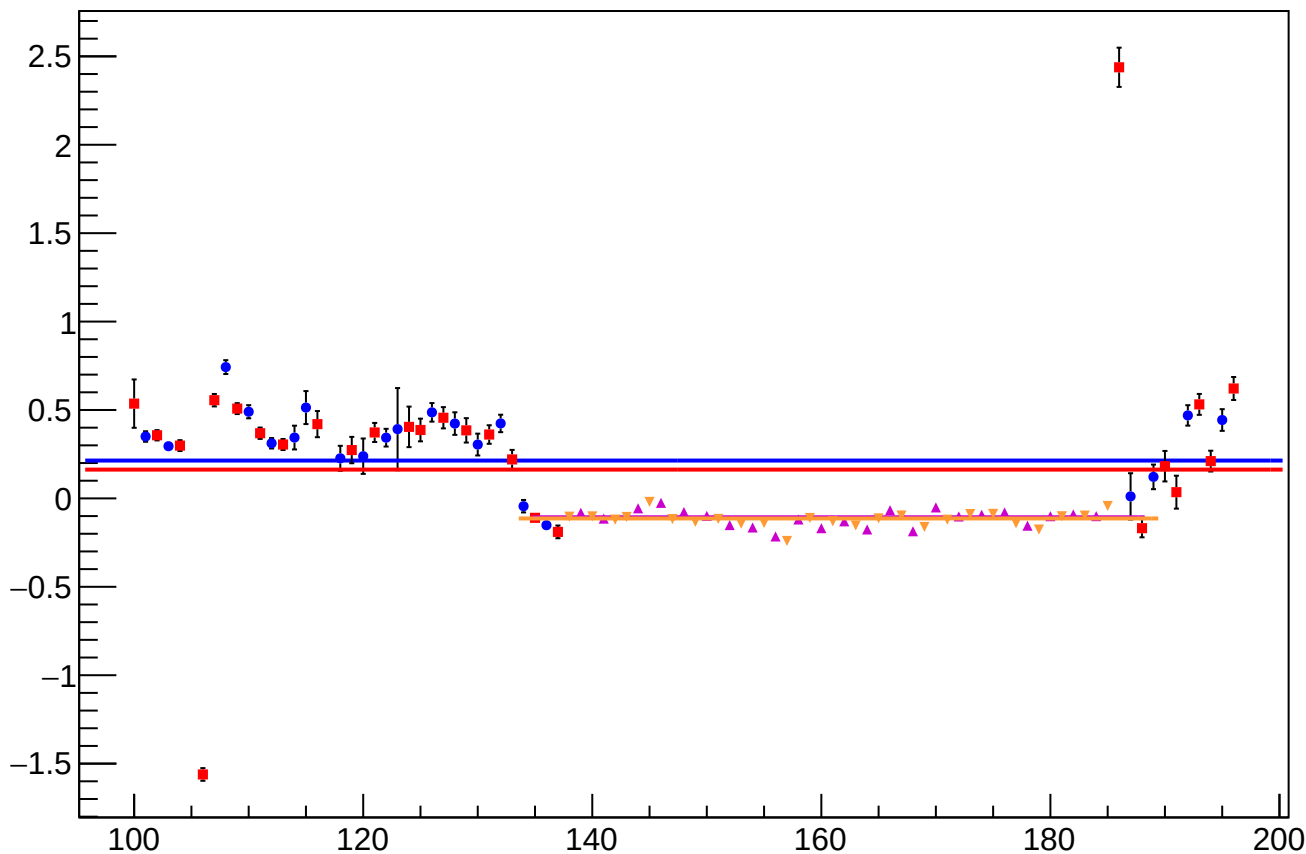
Right: 13.481 $\pm$ 0.120 χ^2 /NDF: 14560.6/46

In: 22.909 $\pm$ 0.052 χ^2 /NDF:12101.3/43

Out: 22.964 $\pm$ 0.051 χ^2 /NDF:13015.9/50

All: 22.937 $\pm$ 0.036 χ^2 /NDF: 25117.7/94

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.214 ± 0.009 $\chi^2/\text{NDF}: 885.1/20$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.163 ± 0.009 $\chi^2/\text{NDF}: 3573.2/25$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

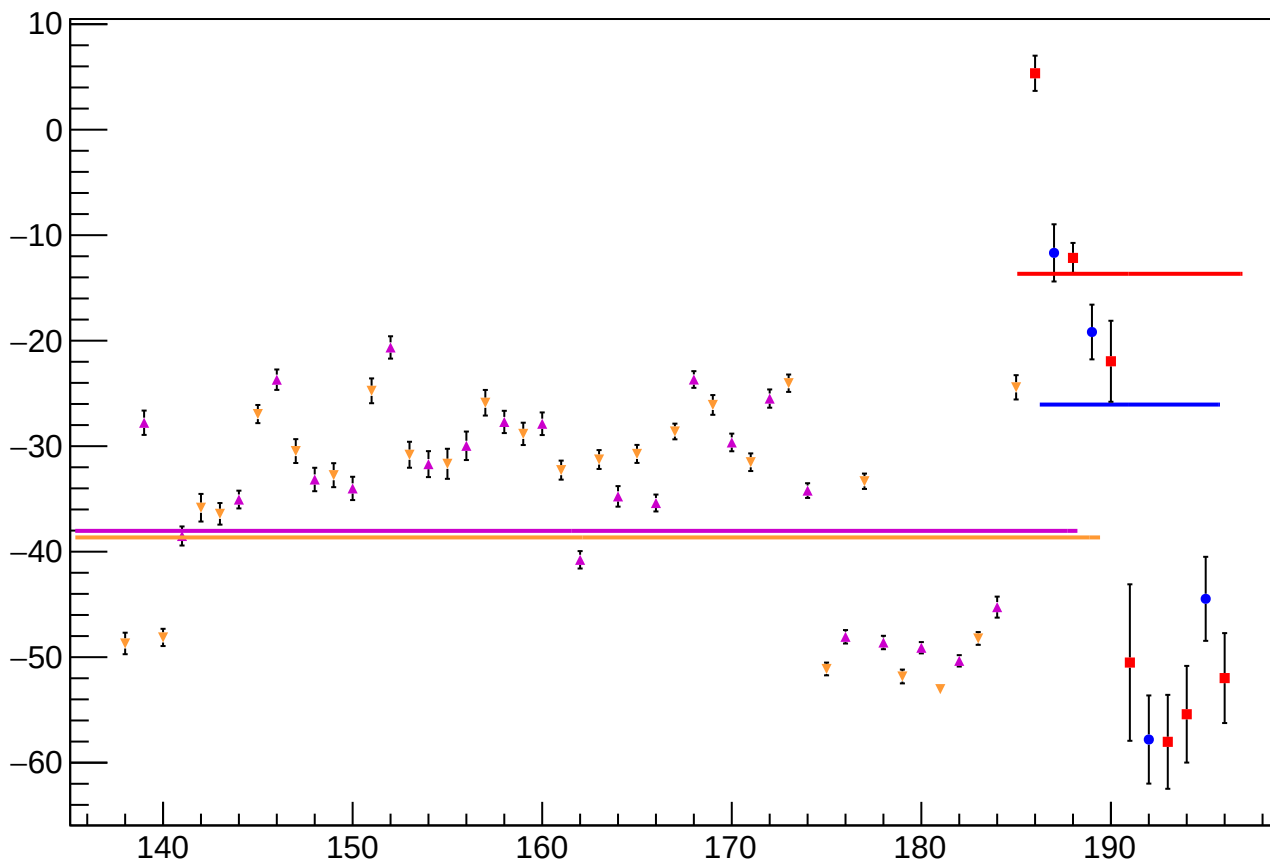
Right: 0.187 ± 0.006 $\chi^2/\text{NDF}: 4475.0/46$

In: -0.085 ± 0.002 $\chi^2/\text{NDF}: 2373.8/43$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4805.3/50$

All: -0.089 ± 0.002 $\chi^2/\text{NDF}: 7186.2/94$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.056 ± 1.571 $\chi^2/\text{NDF}: 114.3/3$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -13.661 ± 0.956 $\chi^2/\text{NDF}: 423.3/6$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$
 Right: -17.012 ± 0.817 $\chi^2/\text{NDF}: 583.0/10$
 In: -37.883 ± 0.172 $\chi^2/\text{NDF}: 3263.5/26$
 Out: -37.892 ± 0.166 $\chi^2/\text{NDF}: 5162.4/31$

All: -37.888 ± 0.120 $\chi^2/\text{NDF}: 8426.0/58$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.801 ± 0.453 χ^2/NDF : 458.4/20

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -10.657 ± 0.455 χ^2/NDF : 556.4/25

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

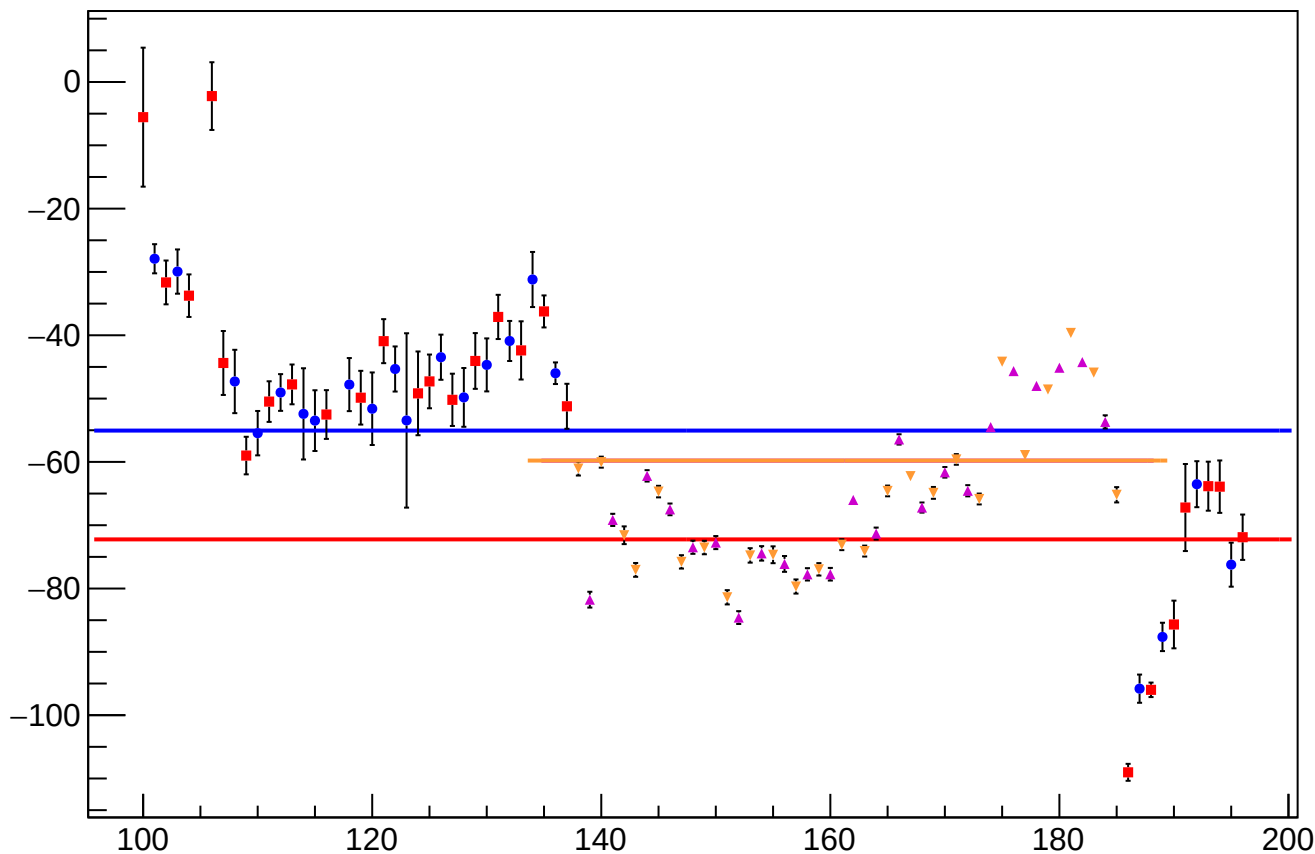
Right: -9.725 ± 0.321 χ^2/NDF : 1023.1/46

In: 0.449 ± 0.134 χ^2/NDF : 2962.4/43

Out: 0.165 ± 0.130 χ^2/NDF : 2970.6/50

All: 0.304 ± 0.093 χ^2/NDF : 5935.4/94

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -55.053 ± 0.710 χ^2/NDF : 893.8/20

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -72.238 ± 0.583 χ^2/NDF : 2474.5/25

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

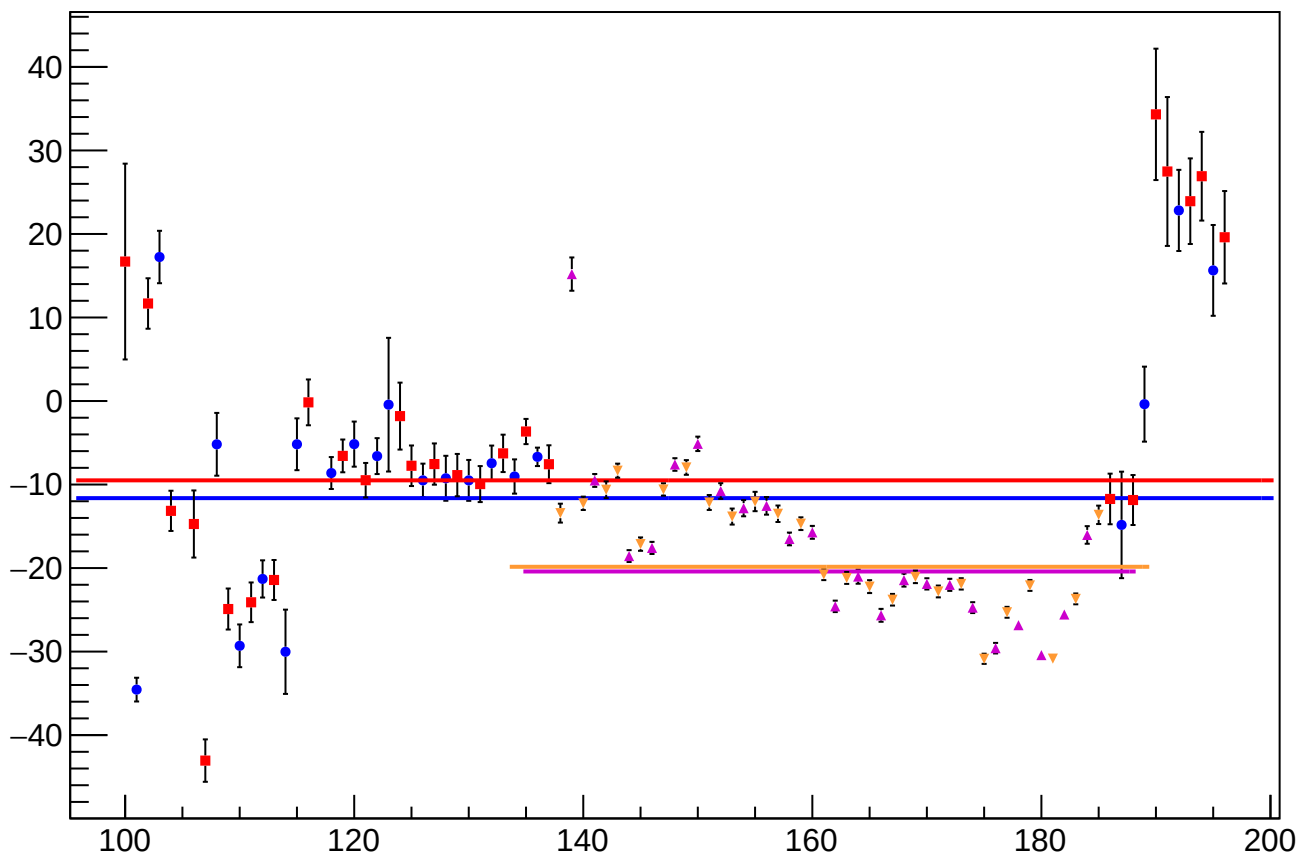
Right: -65.320 ± 0.451 χ^2/NDF : 3718.0/46

In: -59.535 ± 0.168 χ^2/NDF : 6153.5/43

Out: -60.765 ± 0.163 χ^2/NDF : 8732.3/50

All: -60.169 ± 0.117 χ^2/NDF : 14913.4/94

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -11.627 ± 0.513 $\chi^2/\text{NDF}: 557.7/20$

Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$

Right Out: -9.499 ± 0.527 $\chi^2/\text{NDF}: 537.9/25$

Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$

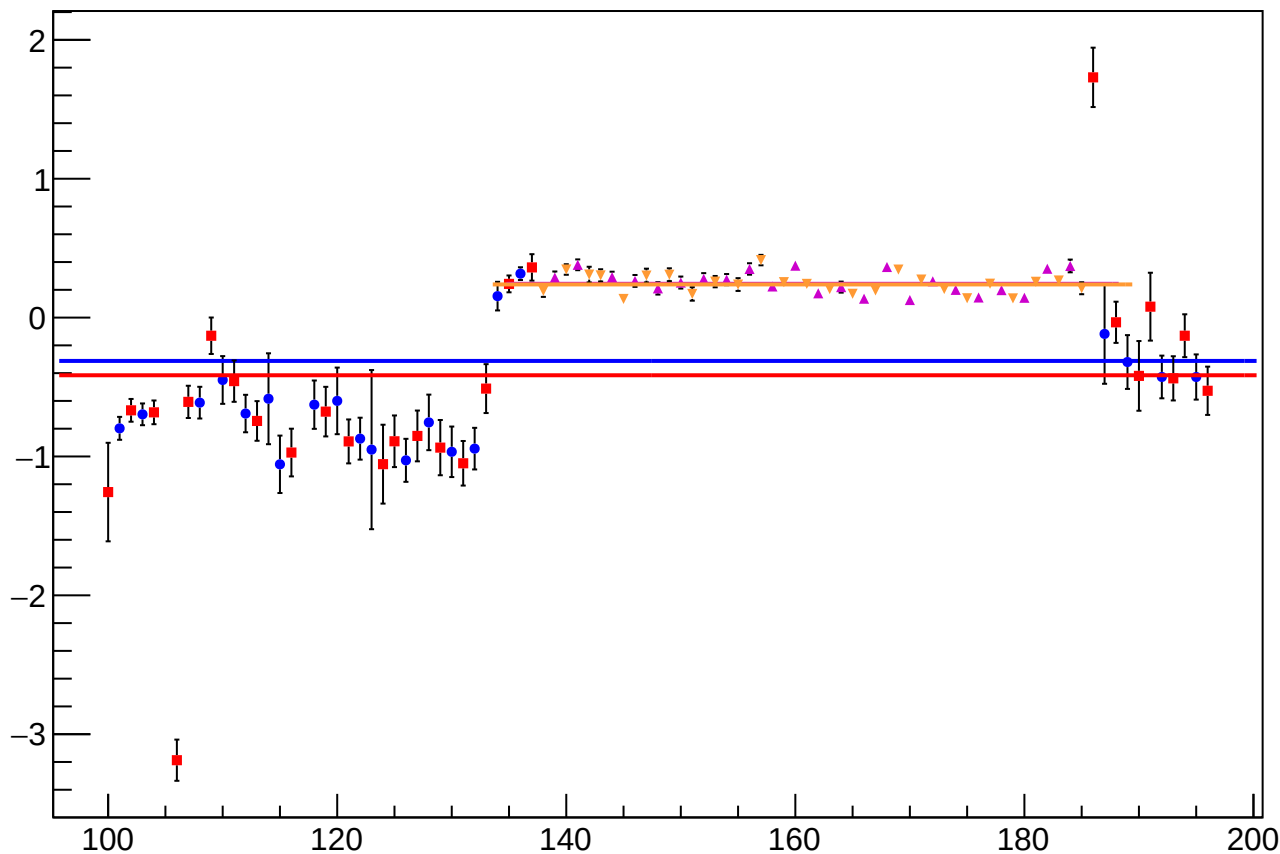
Right: -10.590 ± 0.368 $\chi^2/\text{NDF}: 1104.0/46$

In: -19.662 ± 0.150 $\chi^2/\text{NDF}: 3127.5/43$

Out: -19.044 ± 0.147 $\chi^2/\text{NDF}: 2825.4/50$

All: -19.346 ± 0.105 $\chi^2/\text{NDF}: 5961.6/94$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.312 ± 0.026 χ^2/NDF : 373.1/20

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.415 ± 0.026 χ^2/NDF : 748.2/25

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

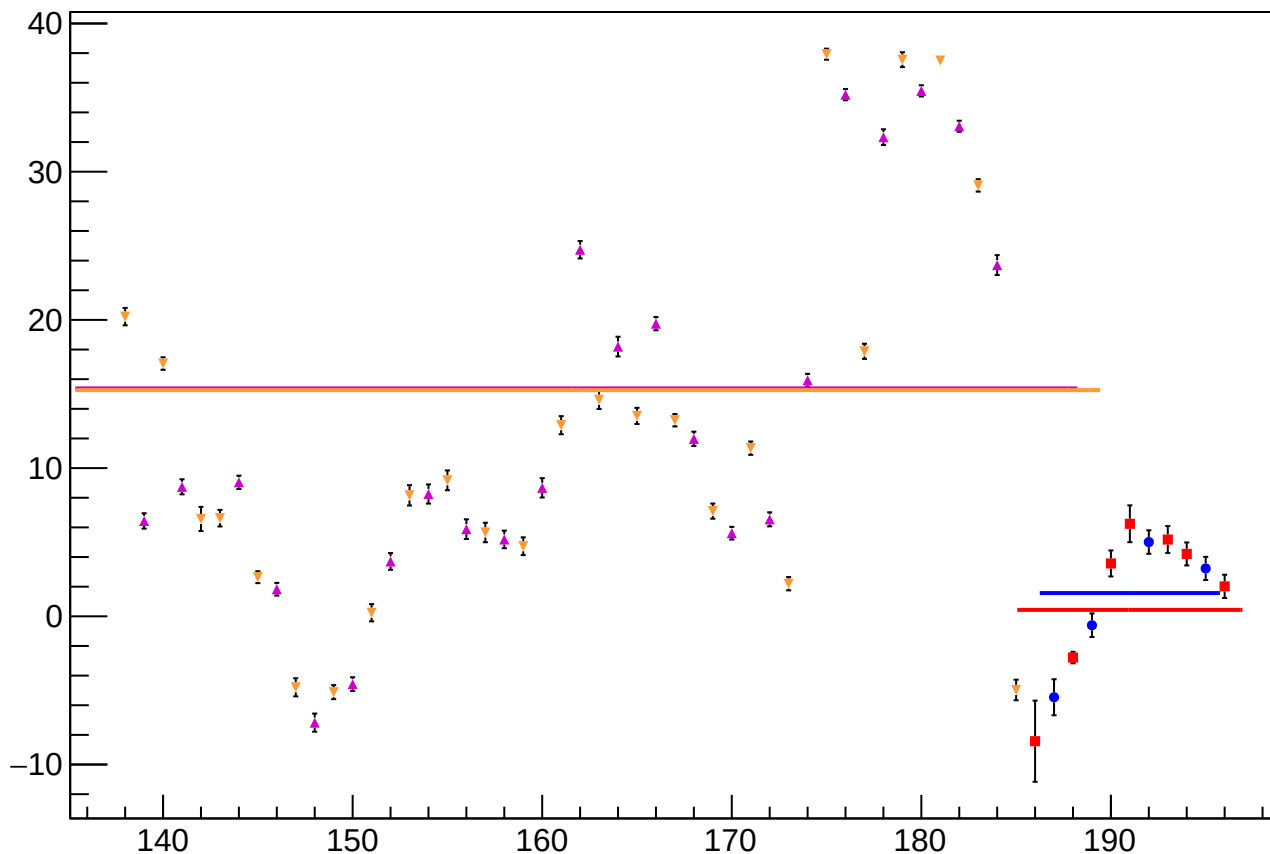
Right: -0.364 ± 0.019 χ^2/NDF : 1128.9/46

In: 0.205 ± 0.007 χ^2/NDF : 921.6/43

Out: 0.196 ± 0.007 χ^2/NDF : 1414.7/50

All: 0.200 ± 0.005 χ^2/NDF : 2337.3/94

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.569 ± 0.427 χ^2/NDF : 64.4/3

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 0.436 ± 0.275 χ^2/NDF : 168.6/6

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

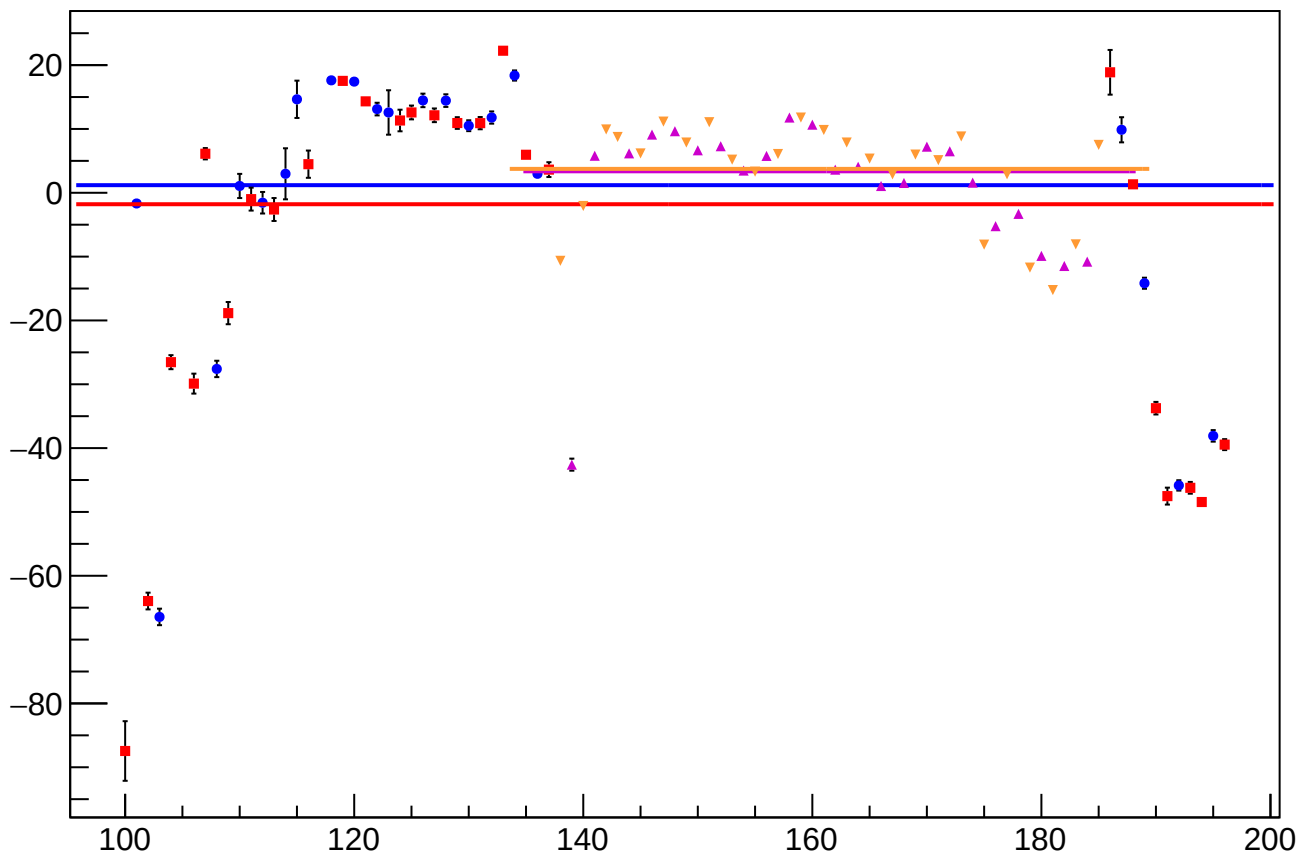
Right: 0.769 ± 0.231 χ^2/NDF : 237.9/10

In: 14.621 ± 0.100 χ^2/NDF : 17322.3/26

Out: 13.520 ± 0.094 χ^2/NDF : 21902.4/31

All: 14.039 ± 0.069 χ^2/NDF : 39288.8/58

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.193 ± 0.199 $\chi^2/\text{NDF}: 11761.7/20$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -1.793 ± 0.180 $\chi^2/\text{NDF}: 19108.3/25$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

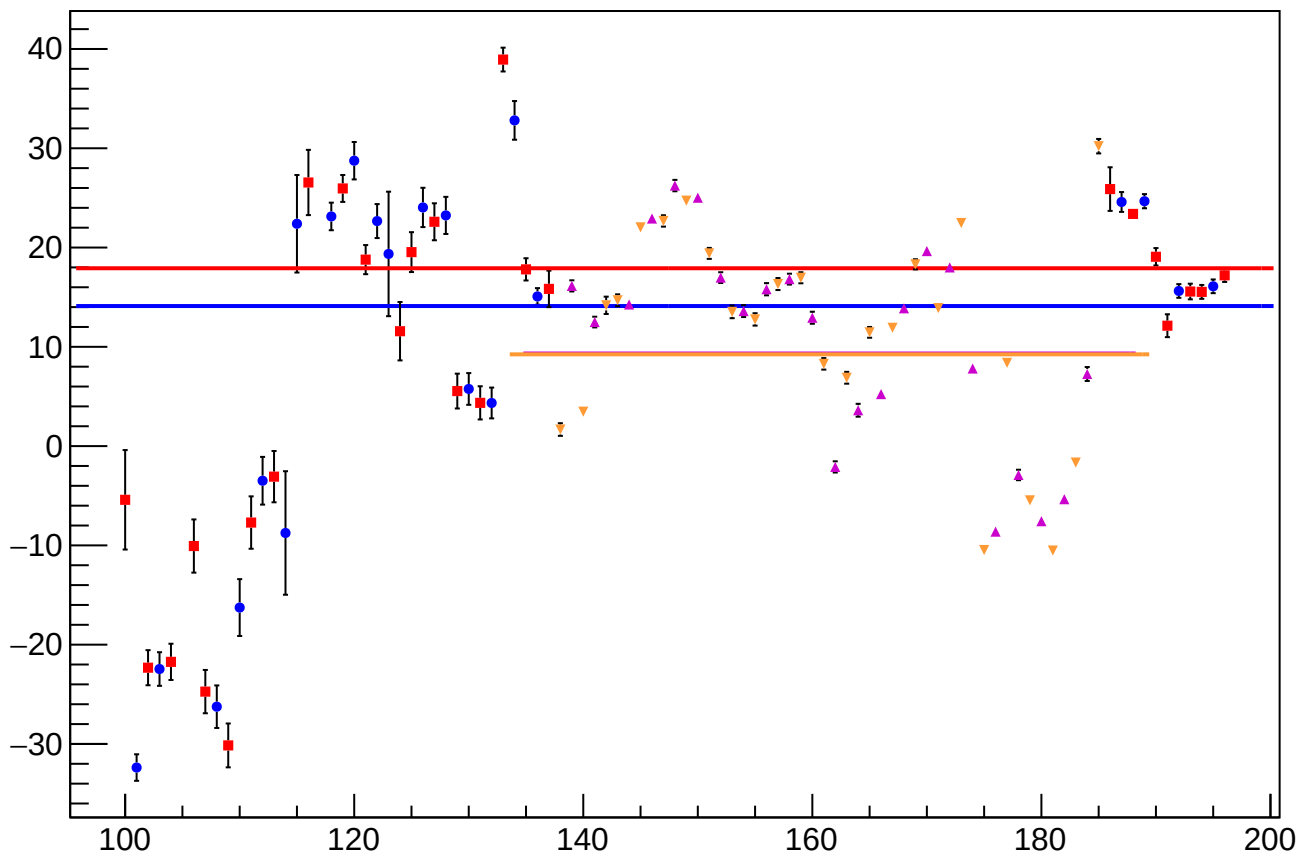
Right: -0.446 ± 0.133 $\chi^2/\text{NDF}: 30994.0/46$

In: 3.054 ± 0.075 $\chi^2/\text{NDF}: 20391.1/43$

Out: 2.857 ± 0.072 $\chi^2/\text{NDF}: 29149.3/50$

All: 2.952 ± 0.052 $\chi^2/\text{NDF}: 49544.0/94$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.108+/-0.279 χ^2/NDF : 2896.6/20

Left Out: 9.242+/-0.101 χ^2/NDF :13633.2/24

Right Out: 17.914+/-0.204 χ^2/NDF : 2976.8/25

Left In: 9.328+/-0.103 χ^2/NDF :11968.5/22

Left: 9.284+/-0.072 χ^2/NDF : 25602.0/47

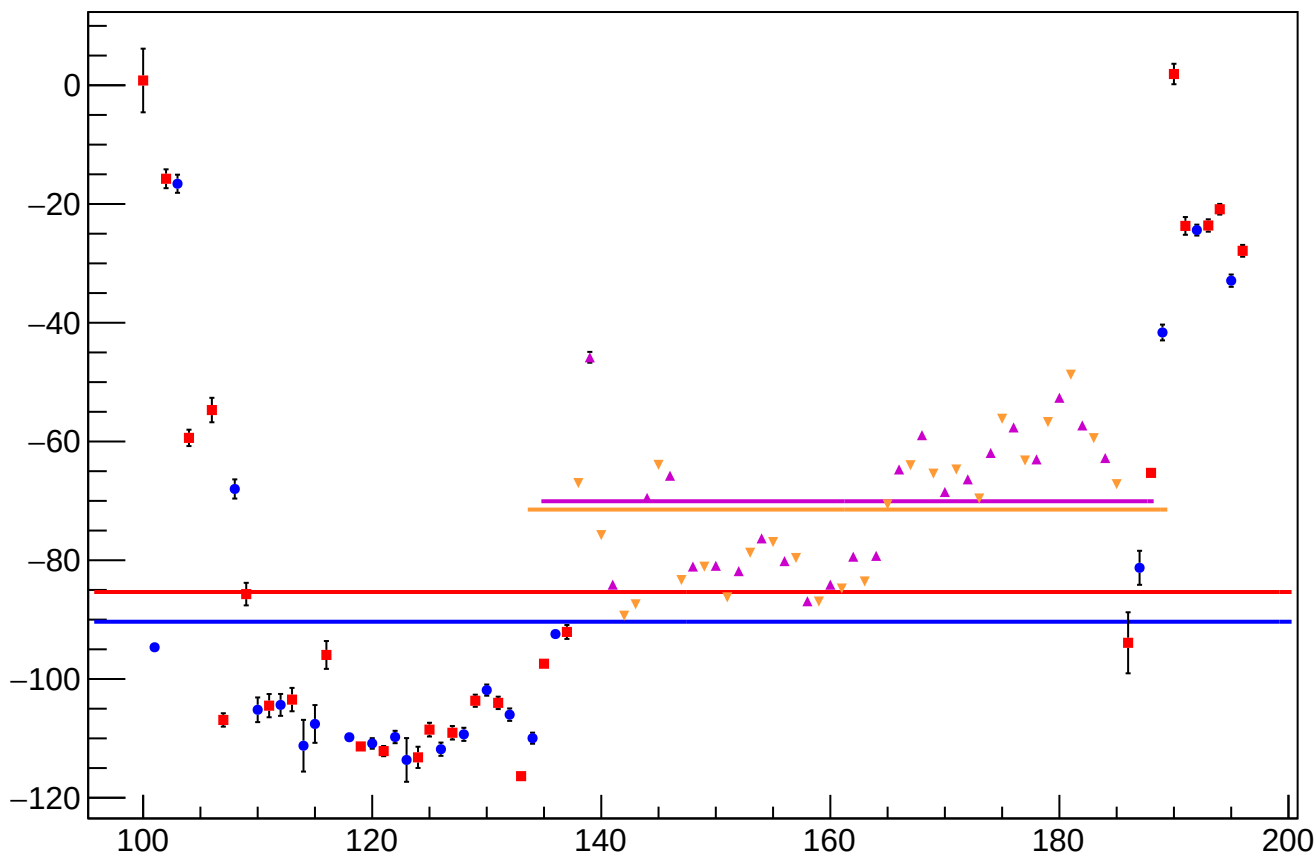
Right: 16.584+/-0.165 χ^2/NDF : 5994.6/46

In: 9.898+/-0.096 χ^2/NDF :15124.0/43

Out: 10.943+/-0.090 χ^2/NDF :18058.6/50

All: 10.453+/-0.066 χ^2/NDF : 33245.2/94

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -90.354 ± 0.231 $\chi^2/\text{NDF}: 15636.3/20$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -85.346 ± 0.214 $\chi^2/\text{NDF}: 27738.9/25$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

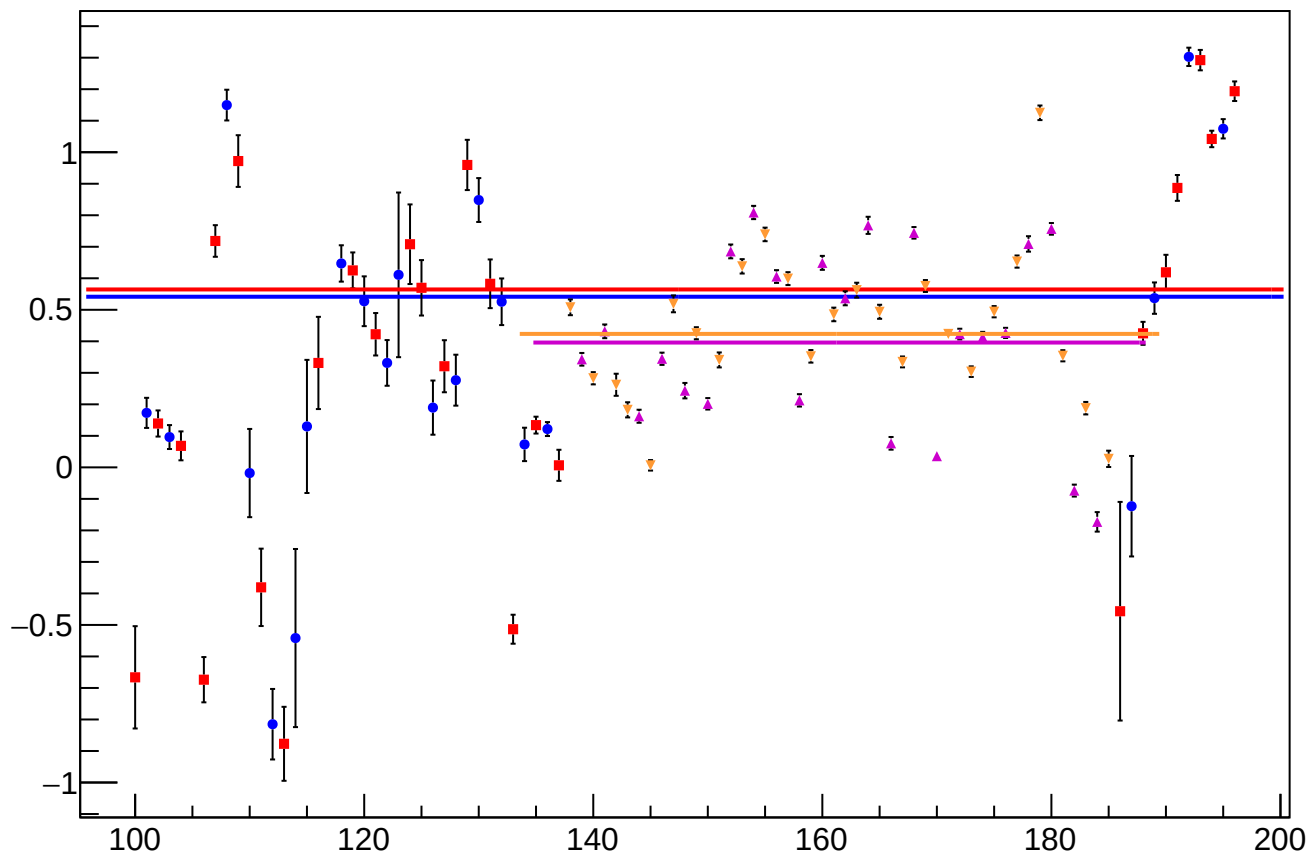
Right: -87.651 ± 0.157 $\chi^2/\text{NDF}: 43627.8/46$

In: -72.815 ± 0.085 $\chi^2/\text{NDF}: 35338.8/43$

Out: -73.528 ± 0.082 $\chi^2/\text{NDF}: 47739.7/50$

All: -73.184 ± 0.059 $\chi^2/\text{NDF}: 83114.6/94$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.541 $\pm$ 0.011 χ^2 /NDF: 2035.9/20

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.565 $\pm$ 0.010 χ^2 /NDF: 3136.1/25

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

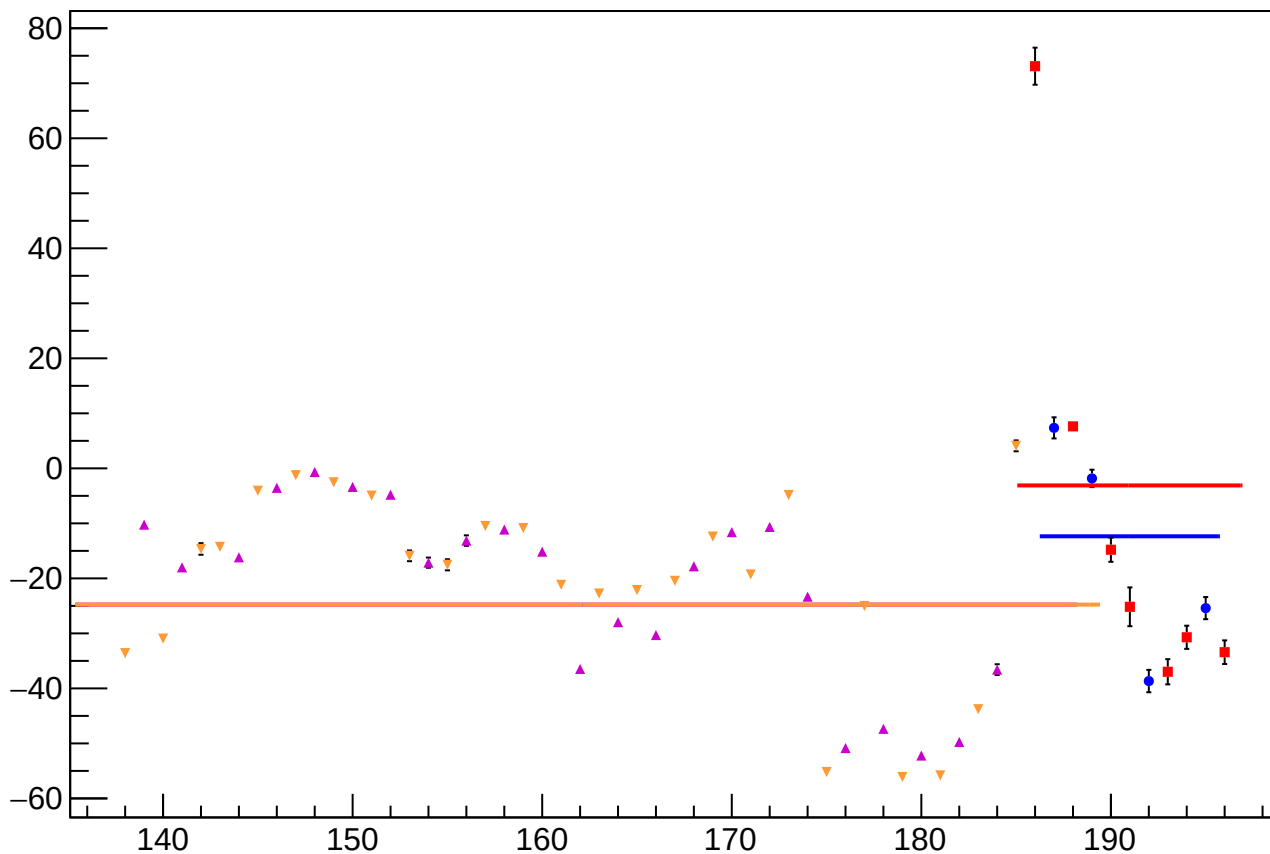
Right: 0.555 $\pm$ 0.007 χ^2 /NDF: 5174.5/46

In: 0.414 $\pm$ 0.004 χ^2 /NDF:6238.4/43

Out: 0.445 $\pm$ 0.004 χ^2 /NDF:6200.5/50

All: 0.430 $\pm$ 0.003 χ^2 /NDF: 12471.1/94

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.352 ± 0.929 $\chi^2/\text{NDF}: 358.6/3$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -3.105 ± 0.624 $\chi^2/\text{NDF}: 1349.0/6$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$

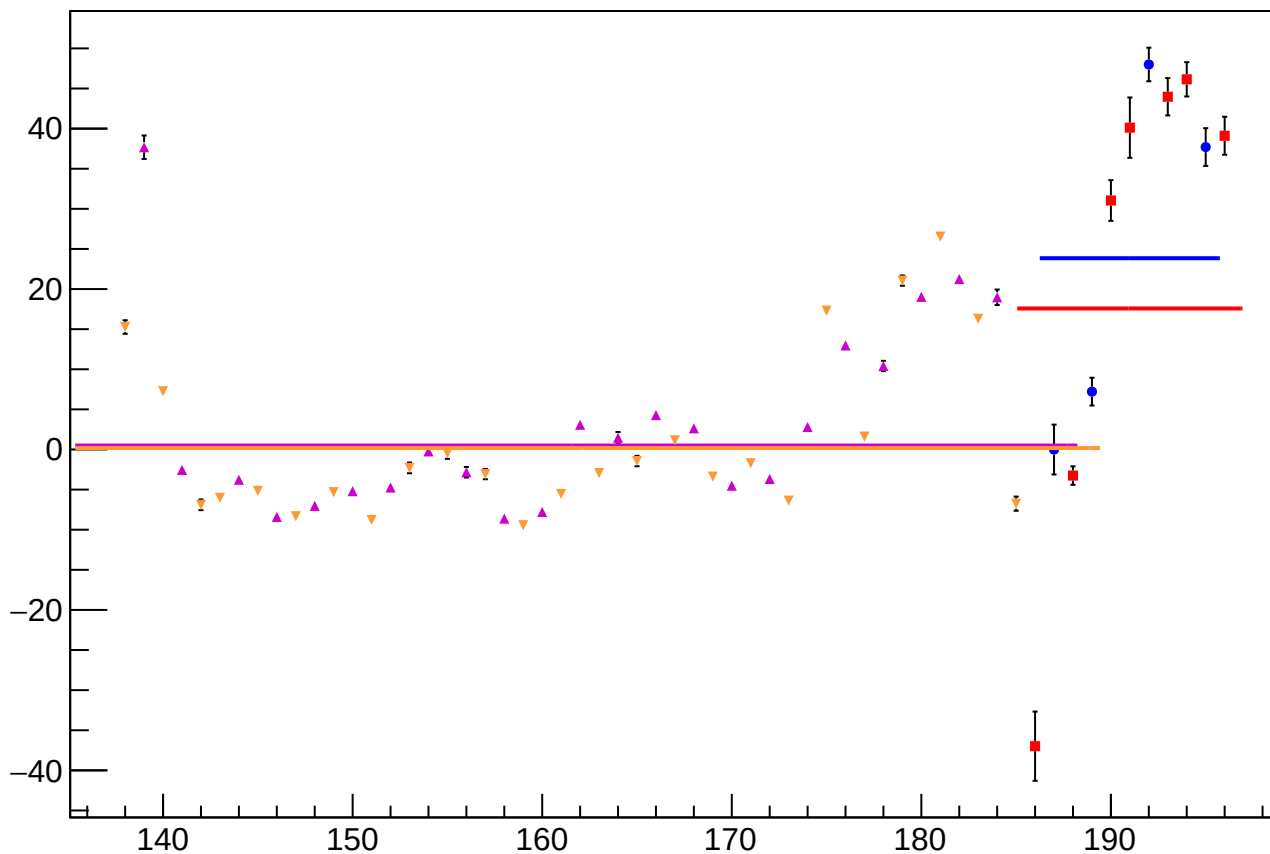
Right: -5.981 ± 0.518 $\chi^2/\text{NDF}: 1775.9/10$

In: -24.488 ± 0.141 $\chi^2/\text{NDF}: 15340.9/26$

Out: -23.739 ± 0.136 $\chi^2/\text{NDF}: 20816.3/31$

All: -24.100 ± 0.098 $\chi^2/\text{NDF}: 36171.7/58$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 23.844+/-1.088 χ^2/NDF : 318.7/3

Left Out: 0.177+/-0.109 χ^2/NDF : 8295.6/24

Right Out: 17.580+/-0.787 χ^2/NDF : 939.6/6

Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47

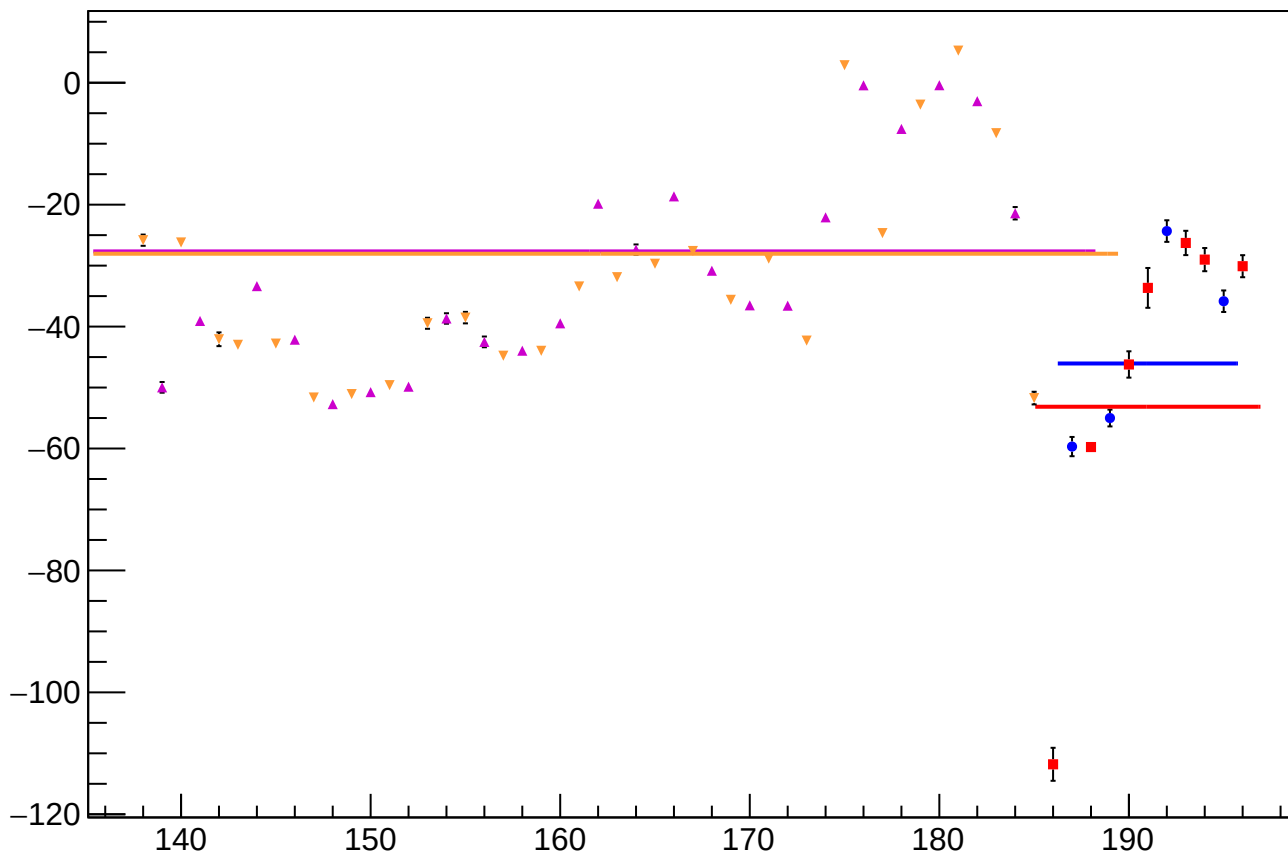
Right: 19.734+/-0.638 χ^2/NDF : 1280.0/10

In: 0.739+/-0.112 χ^2/NDF : 7330.0/26

Out: 0.502+/-0.108 χ^2/NDF : 9714.5/31

All: 0.616+/-0.077 χ^2/NDF : 17046.8/58

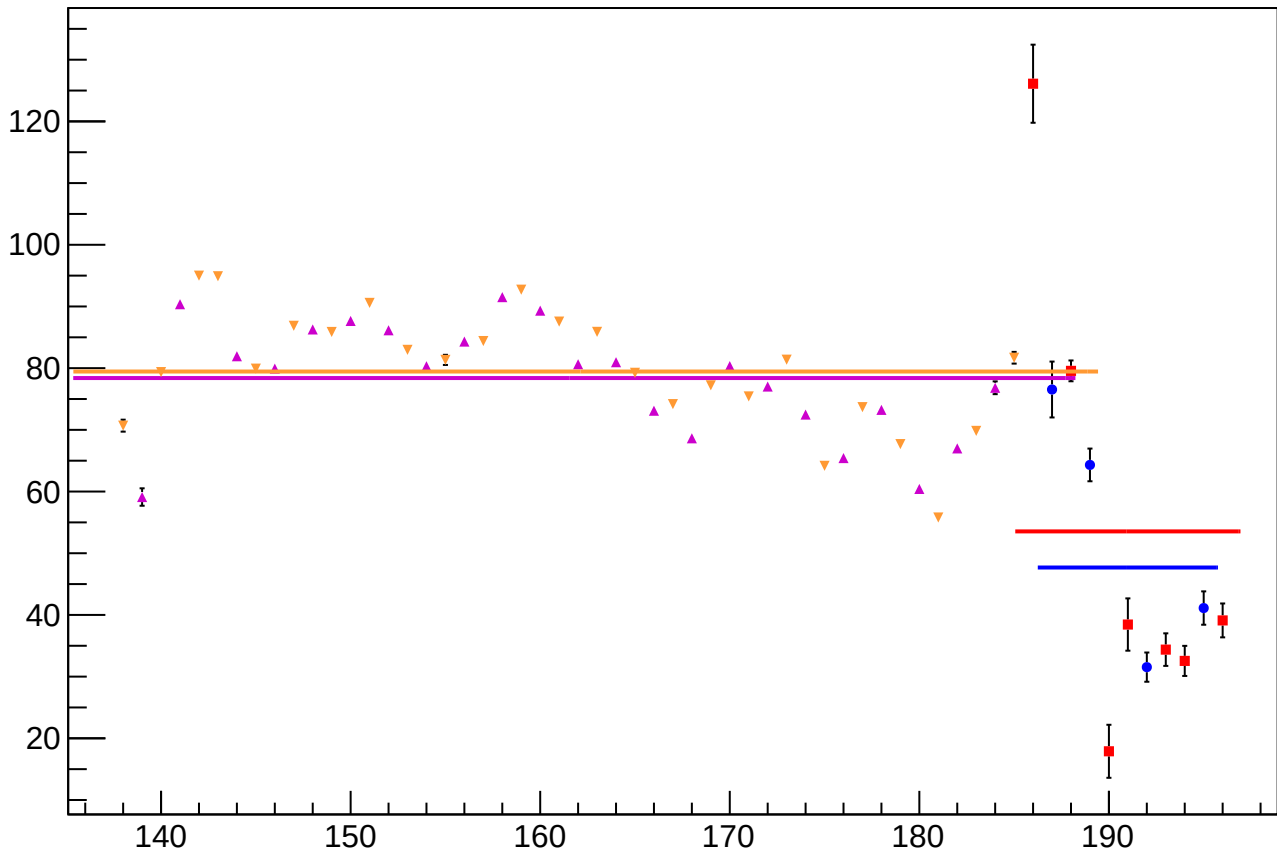
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.053 ± 0.798 $\chi^2/\text{NDF}: 300.5/3$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -53.148 ± 0.522 $\chi^2/\text{NDF}: 1125.0/6$
 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: -51.021 ± 0.437 $\chi^2/\text{NDF}: 1480.9/10$
 In: -28.234 ± 0.140 $\chi^2/\text{NDF}: 15817.6/26$
 Out: -29.728 ± 0.135 $\chi^2/\text{NDF}: 20422.7/31$
 All: -29.009 ± 0.097 $\chi^2/\text{NDF}: 36299.2/58$

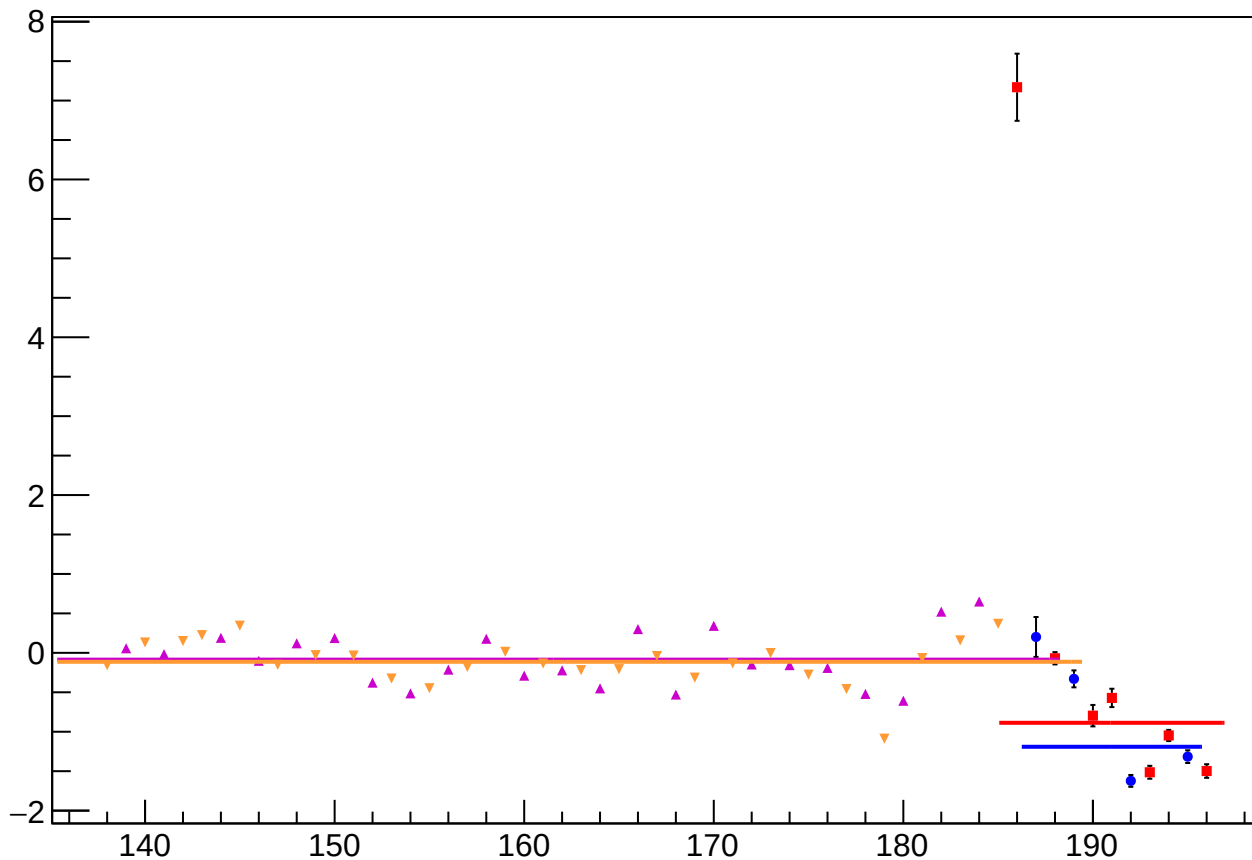
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.685 $\pm$ 1.406 χ^2 /NDF: 132.3/3
 Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24
 Right Out: 53.539 $\pm$ 1.037 χ^2 /NDF: 605.5/6
 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: 51.477 $\pm$ 0.834 χ^2 /NDF: 749.1/10
 In: 78.149 $\pm$ 0.126 χ^2 /NDF: 5313.2/26
 Out: 79.095 $\pm$ 0.122 χ^2 /NDF: 7299.1/31
 All: 78.637 $\pm$ 0.088 χ^2 /NDF: 12641.2/58

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.191 ± 0.048 $\chi^2/\text{NDF}: 130.1/3$

Left Out: -0.113 ± 0.006 $\chi^2/\text{NDF}: 2303.1/24$

Right Out: -0.887 ± 0.036 $\chi^2/\text{NDF}: 590.8/6$

Left In: -0.086 ± 0.006 $\chi^2/\text{NDF}: 3132.1/22$

Left: -0.100 ± 0.004 $\chi^2/\text{NDF}: 5446.4/47$

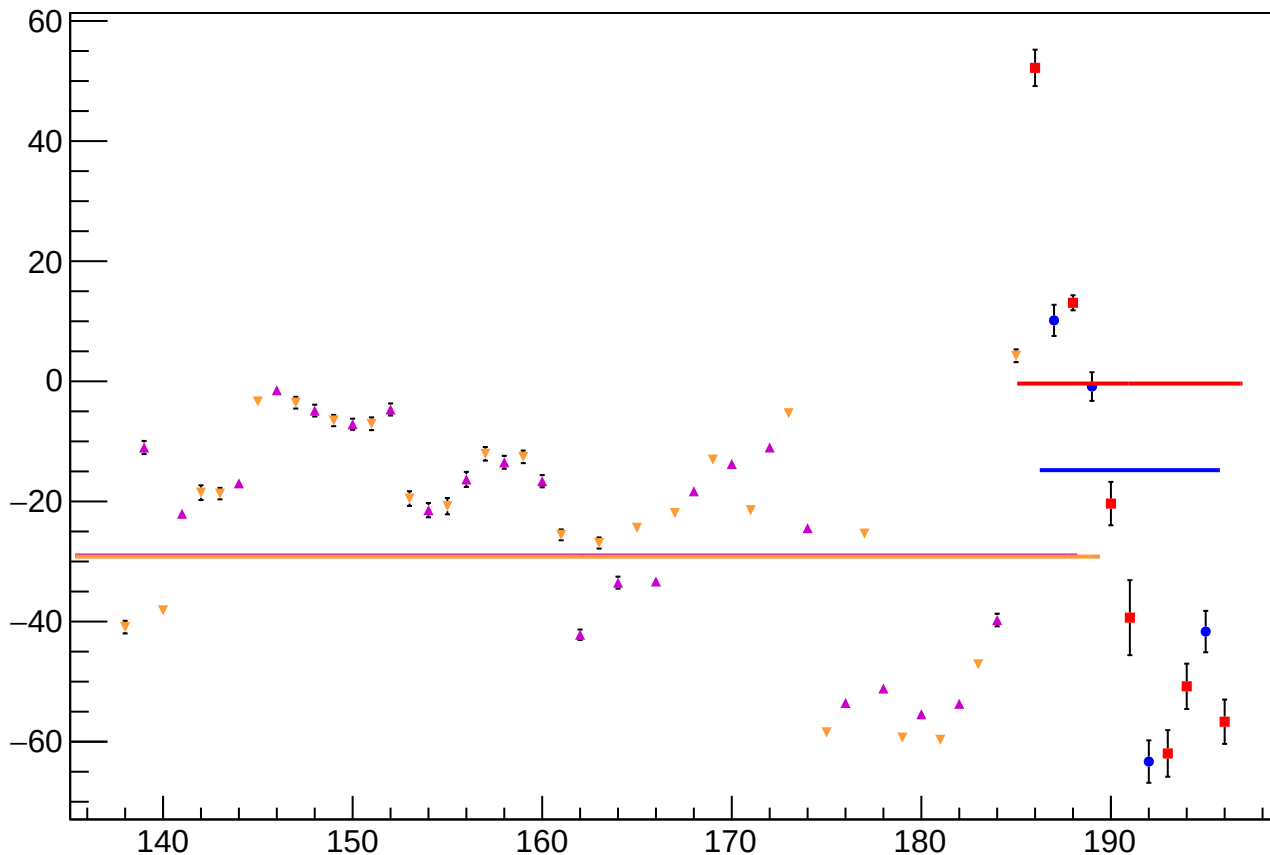
Right: -0.995 ± 0.029 $\chi^2/\text{NDF}: 746.8/10$

In: -0.102 ± 0.006 $\chi^2/\text{NDF}: 3784.8/26$

Out: -0.132 ± 0.006 $\chi^2/\text{NDF}: 3349.8/31$

All: -0.118 ± 0.004 $\chi^2/\text{NDF}: 7148.9/58$

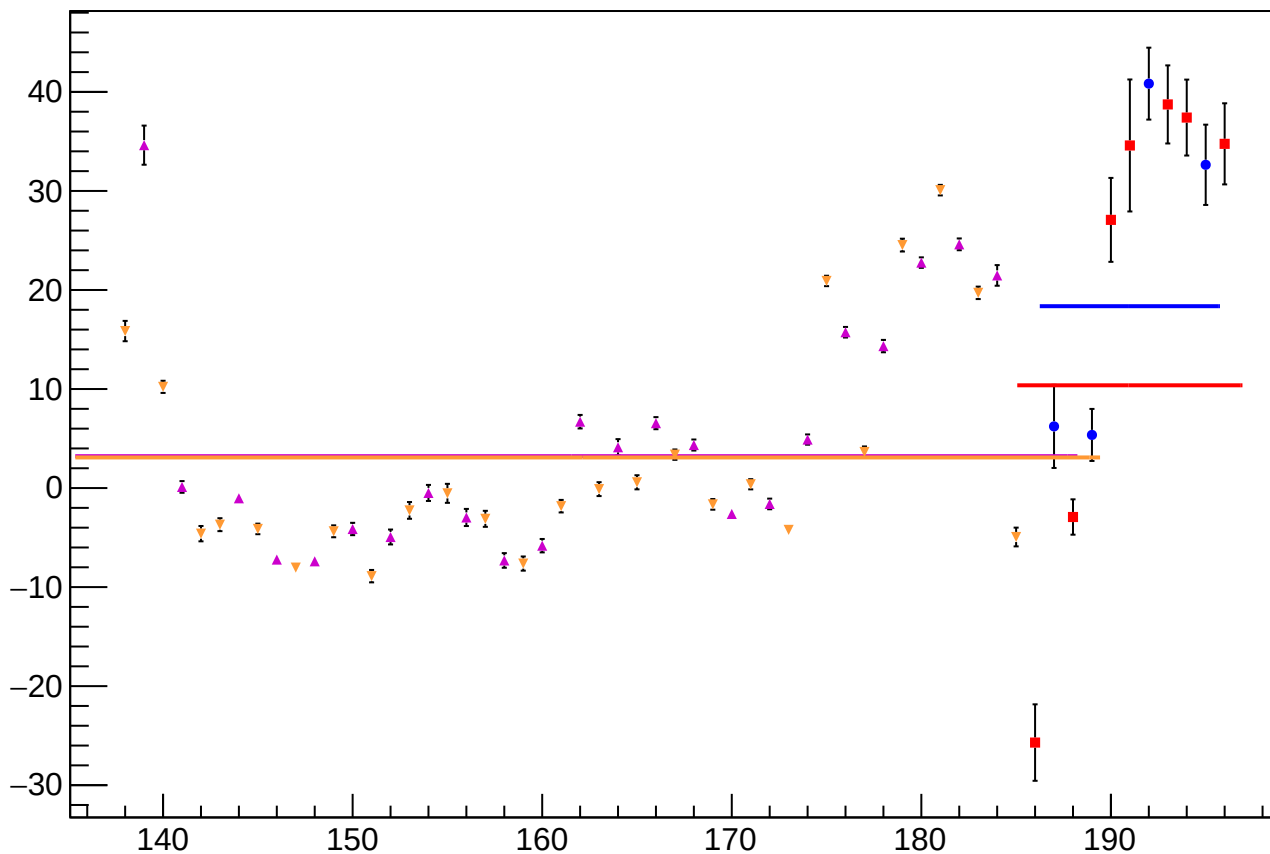
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.793 $\pm$ 1.431 χ^2 /NDF: 375.8/3
 Left Out: -29.180 $\pm$ 0.157 χ^2 /NDF:16912.2/24
 Right Out: -0.367 $\pm$ 0.972 χ^2 /NDF: 1149.0/6
 Left In: -29.003 $\pm$ 0.160 χ^2 /NDF:13416.8/22

Left: -29.093 $\pm$ 0.112 χ^2 /NDF: 30329.6/47
 Right: -4.920 $\pm$ 0.804 χ^2 /NDF: 1594.4/10
 In: -28.828 $\pm$ 0.159 χ^2 /NDF:13890.0/26
 Out: -28.449 $\pm$ 0.155 χ^2 /NDF:18918.2/31
 All: -28.634 $\pm$ 0.111 χ^2 /NDF: 32811.1/58

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.363 $\pm$ 1.719 χ^2 /NDF: 83.5/3

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 10.376 $\pm$ 1.239 χ^2 /NDF: 308.5/6

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF:6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

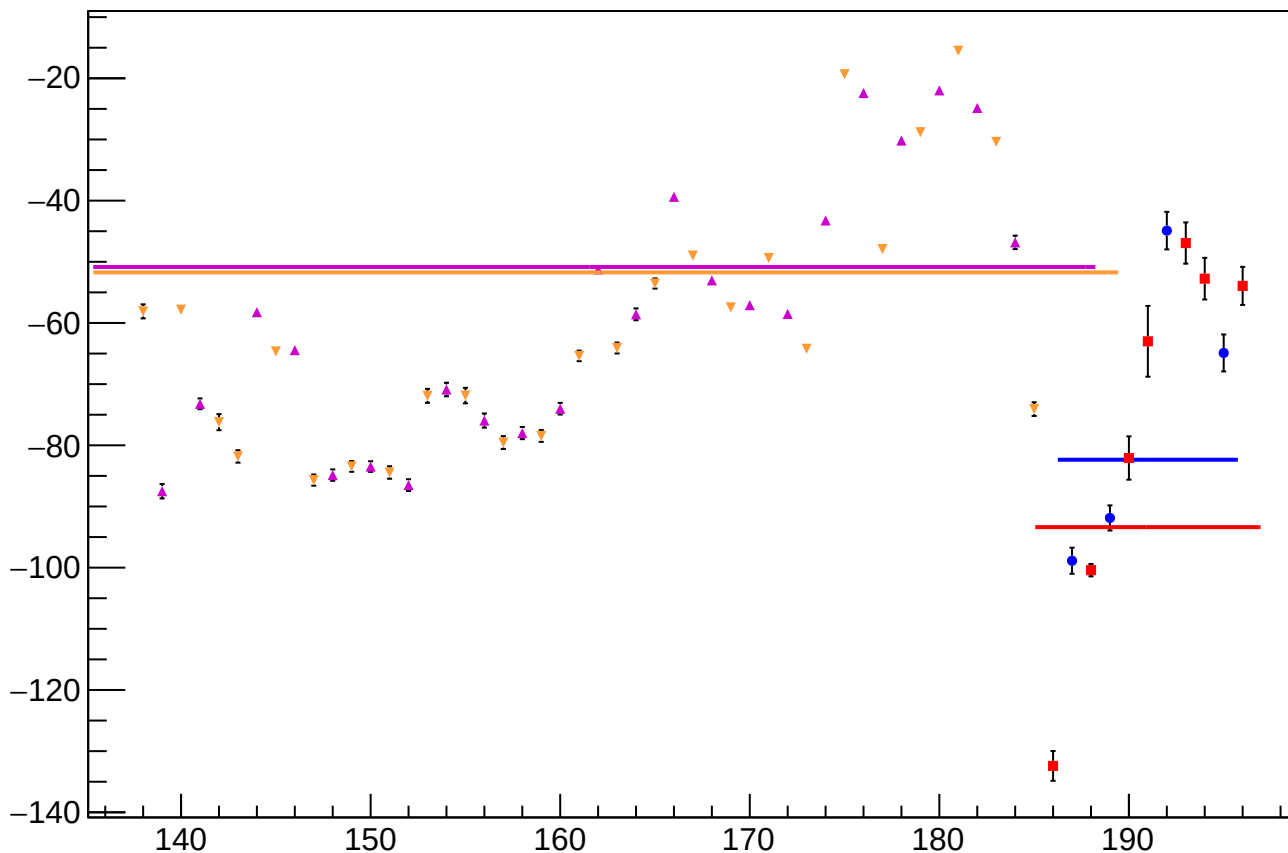
Right: 13.107 $\pm$ 1.005 χ^2 /NDF: 406.3/10

In: 3.303 $\pm$ 0.127 χ^2 /NDF:6398.3/26

Out: 3.163 $\pm$ 0.124 χ^2 /NDF:8426.8/31

All: 3.232 $\pm$ 0.089 χ^2 /NDF: 14825.7/58

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.359 ± 1.219 χ^2/NDF : 263.5/3

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -93.377 ± 0.807 χ^2/NDF : 835.7/6

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

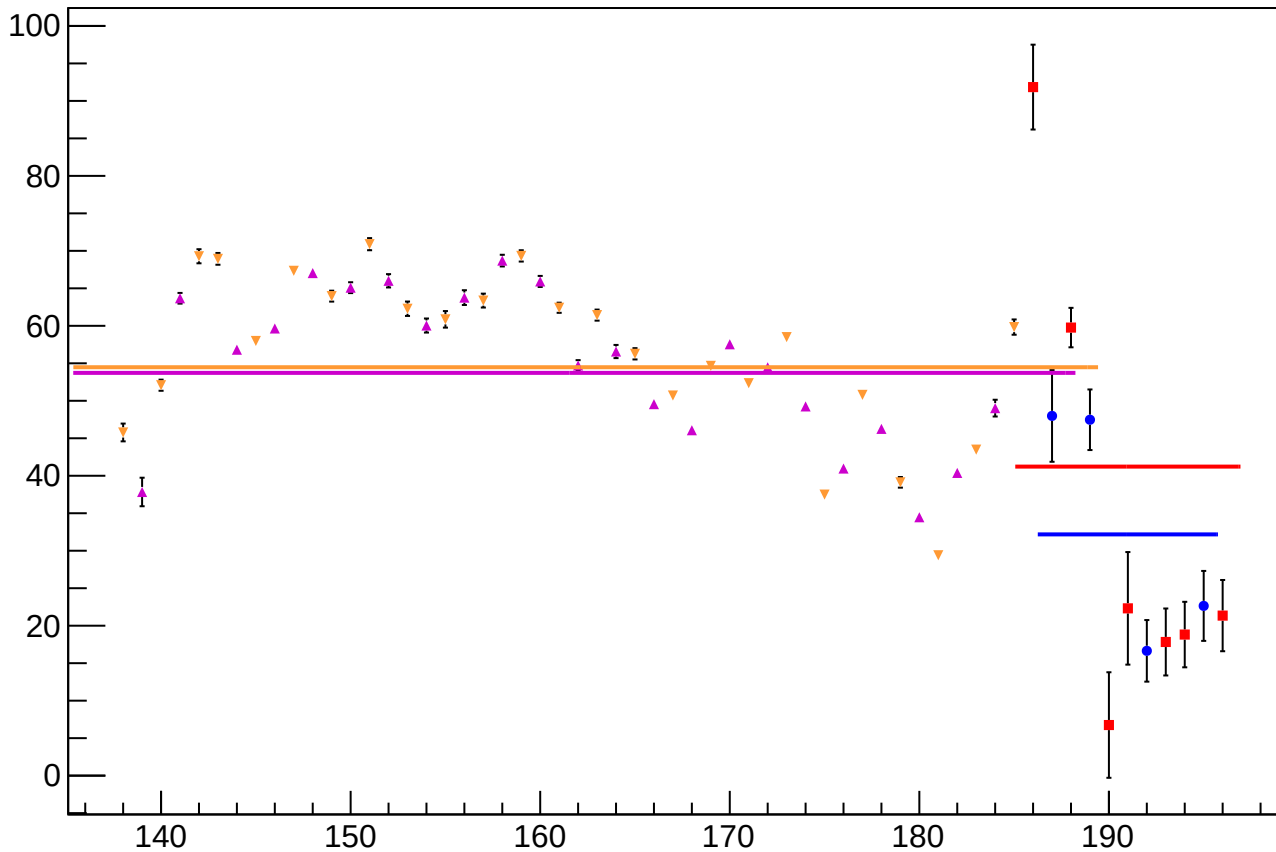
Right: -90.020 ± 0.673 χ^2/NDF : 1156.0/10

In: -51.378 ± 0.159 χ^2/NDF : 18192.1/26

Out: -53.264 ± 0.155 χ^2/NDF : 22937.4/31

All: -52.344 ± 0.111 χ^2/NDF : 41201.8/58

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.179+/-2.275 χ^2/NDF : 39.5/3

Left Out: 54.476+/-0.140 χ^2/NDF : 6266.9/24

Right Out: 41.222+/-1.666 χ^2/NDF : 231.2/6

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

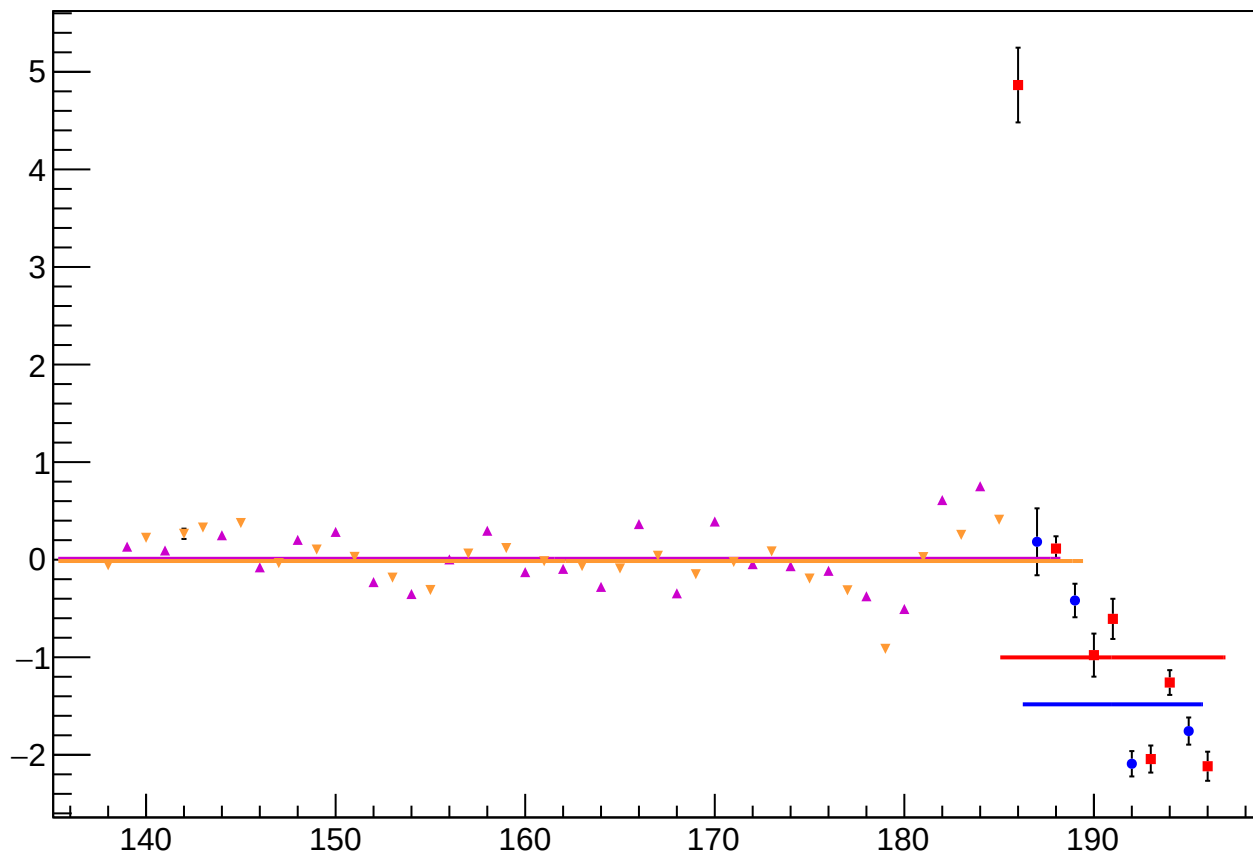
Right: 38.066+/-1.344 χ^2/NDF : 281.0/10

In: 53.639+/-0.143 χ^2/NDF : 4714.5/26

Out: 54.383+/-0.140 χ^2/NDF : 6561.0/31

All: 54.019+/-0.100 χ^2/NDF : 11289.4/58

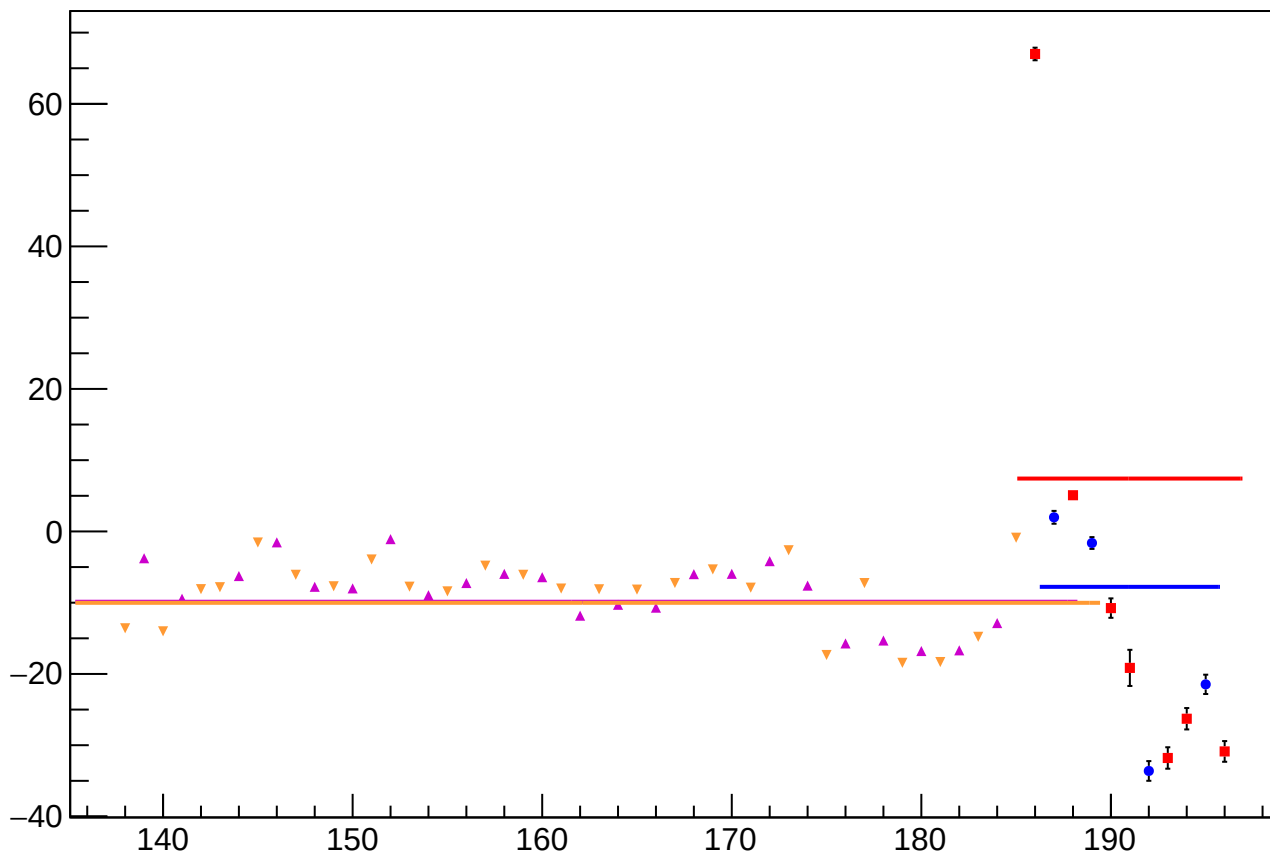
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.483 ± 0.081 $\chi^2/\text{NDF}: 87.8/3$
 Left Out: -0.014 ± 0.006 $\chi^2/\text{NDF}: 1654.7/24$
 Right Out: -1.001 ± 0.061 $\chi^2/\text{NDF}: 433.4/6$
 Left In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2220.5/22$

Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$
 Right: -1.174 ± 0.048 $\chi^2/\text{NDF}: 543.9/10$
 In: -0.001 ± 0.007 $\chi^2/\text{NDF}: 2647.0/26$
 Out: -0.025 ± 0.006 $\chi^2/\text{NDF}: 2351.7/31$
 All: -0.013 ± 0.005 $\chi^2/\text{NDF}: 5005.6/58$

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



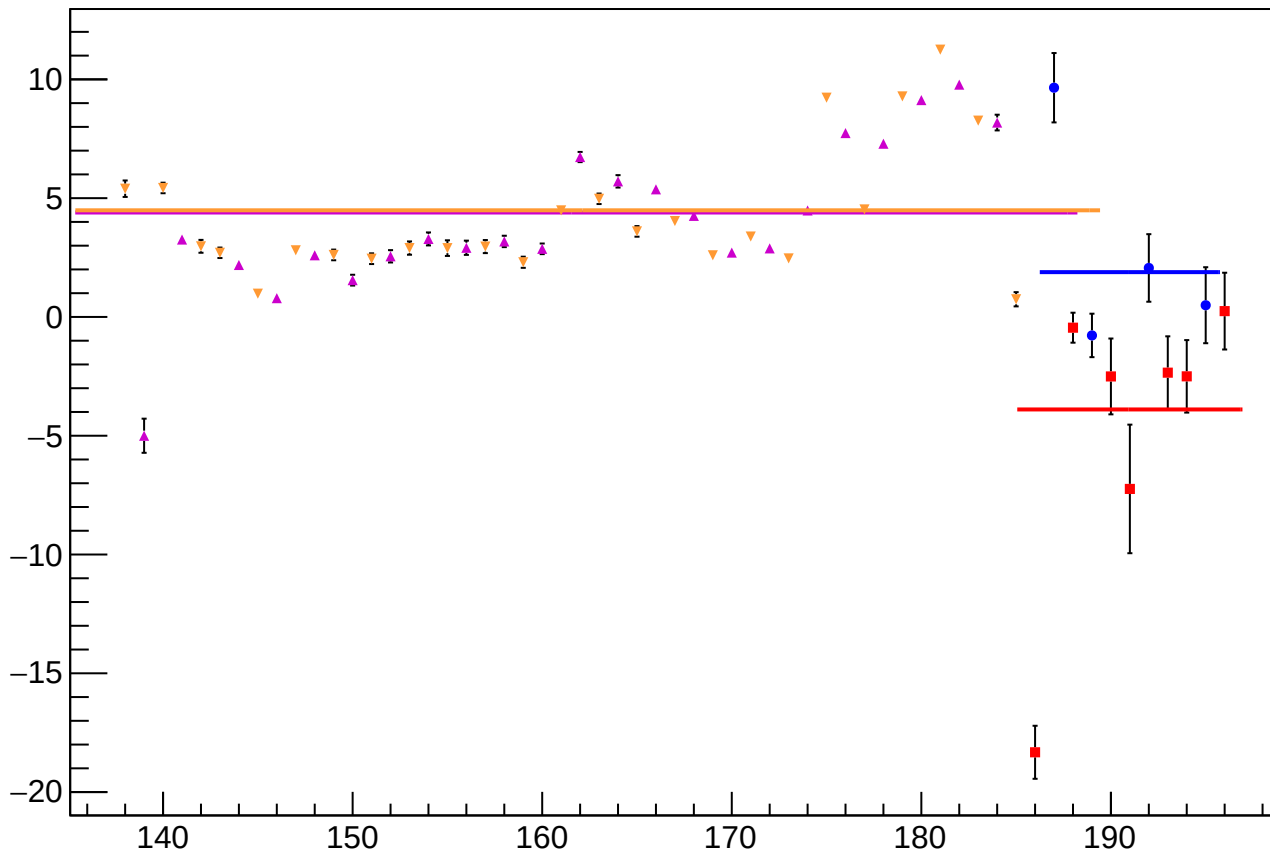
Right In: -7.776 ± 0.516 χ^2/NDF : 623.3/3
 Left Out: -10.017 ± 0.051 χ^2/NDF : 12552.8/24
 Right Out: 7.420 ± 0.346 χ^2/NDF : 6726.6/6
 Left In: -9.865 ± 0.051 χ^2/NDF : 9345.4/22

Left: -9.942 ± 0.036 χ^2/NDF : 21902.5/47
 Right: 2.713 ± 0.287 χ^2/NDF : 7948.3/10

In: -9.845 ± 0.051 χ^2/NDF : 9984.9/26
 Out: -9.650 ± 0.050 χ^2/NDF : 21769.5/31

All: -9.746 ± 0.036 χ^2/NDF : 31761.7/58

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.886 $\pm$ 0.626 χ^2 /NDF: 37.5/3

Left Out: 4.489 $\pm$ 0.041 χ^2 /NDF:4832.3/24

Right Out: -3.894 $\pm$ 0.443 χ^2 /NDF: 207.6/6

Left In: 4.396 $\pm$ 0.041 χ^2 /NDF:4230.4/22

Left: 4.443 $\pm$ 0.029 χ^2 /NDF: 9065.3/47

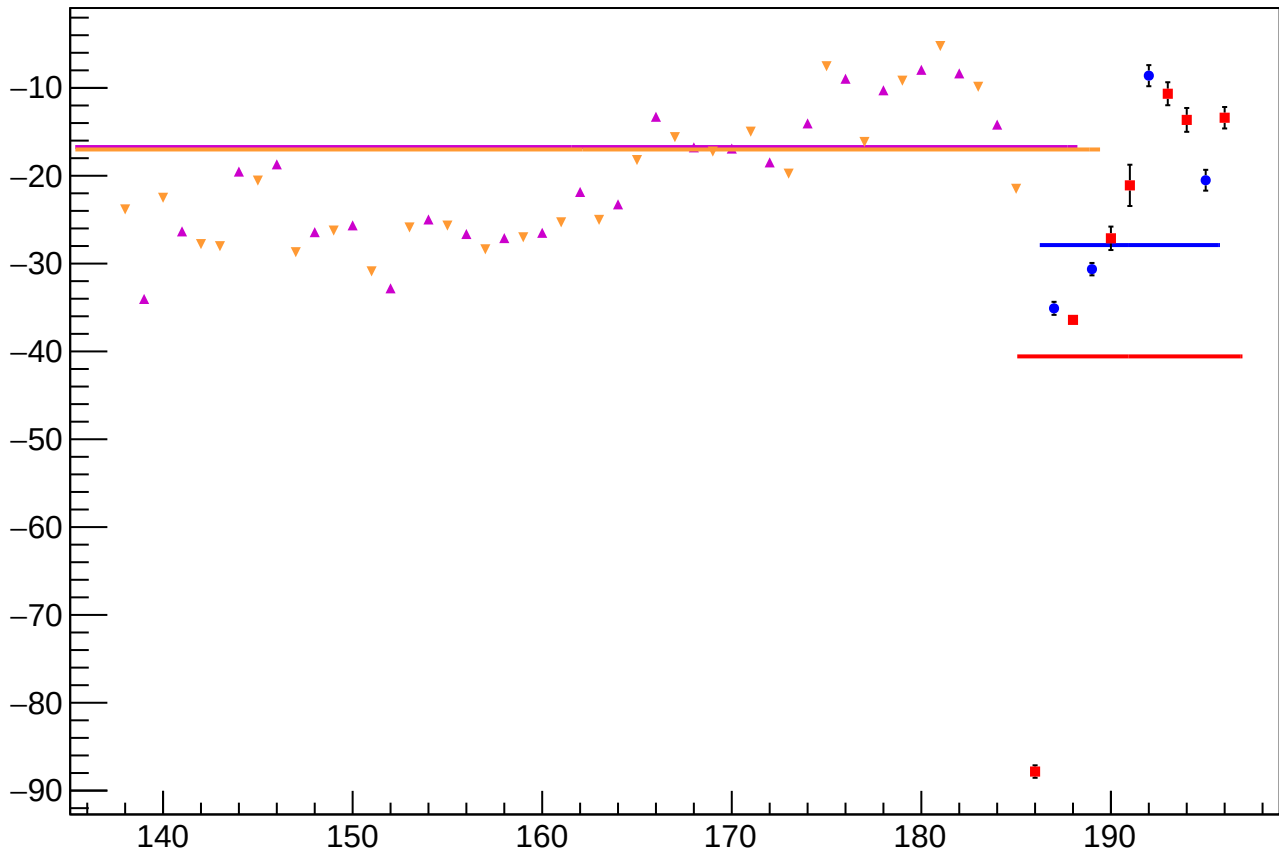
Right: -1.963 $\pm$ 0.362 χ^2 /NDF: 301.9/10

In: 4.385 $\pm$ 0.041 χ^2 /NDF:4283.9/26

Out: 4.419 $\pm$ 0.041 χ^2 /NDF:5394.3/31

All: 4.402 $\pm$ 0.029 χ^2 /NDF: 9678.5/58

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

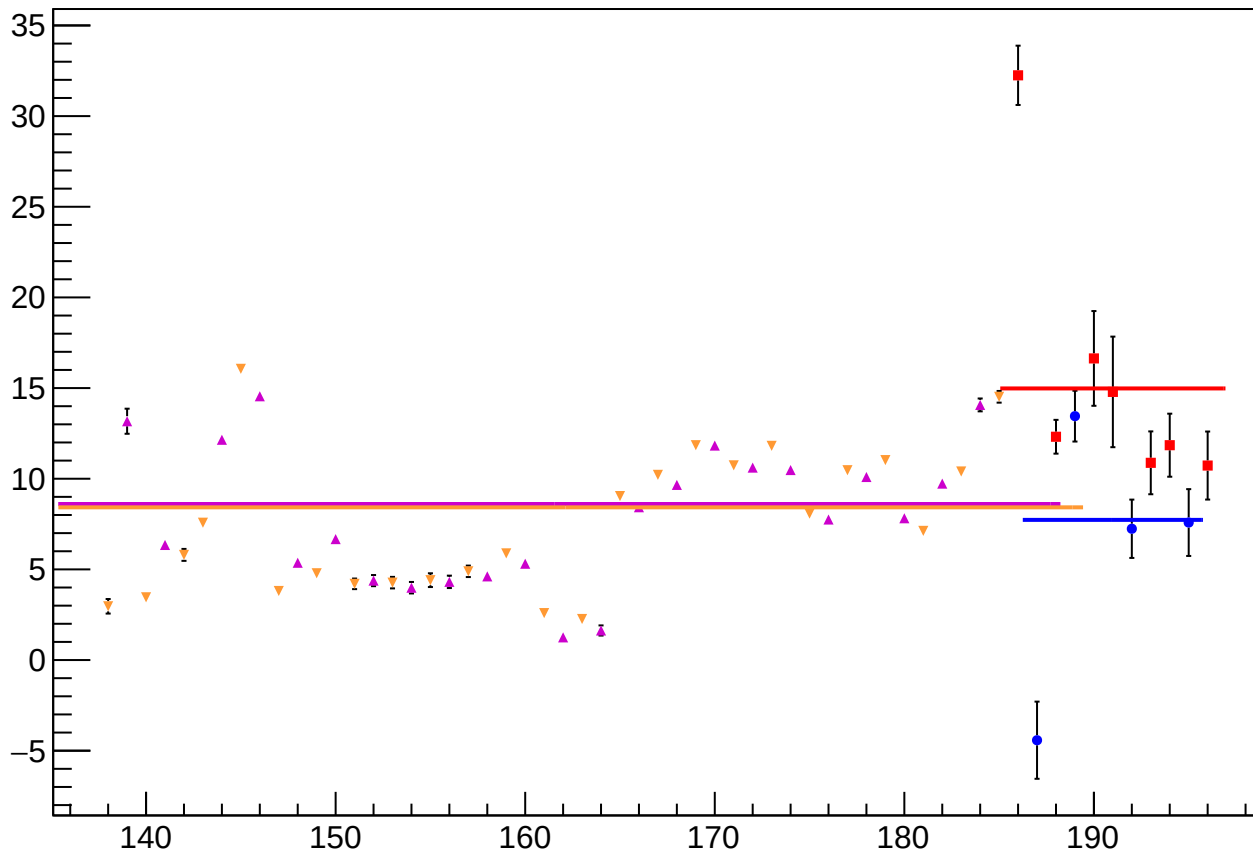
Right: -36.778 ± 0.239 $\chi^2/\text{NDF}: 7128.8/10$

In: -16.884 ± 0.051 $\chi^2/\text{NDF}: 19825.1/26$

Out: -17.738 ± 0.050 $\chi^2/\text{NDF}: 34820.3/31$

All: -17.319 ± 0.036 $\chi^2/\text{NDF}: 54787.0/58$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.730 ± 0.842 $\chi^2/\text{NDF}: 49.4/3$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 14.980 ± 0.605 $\chi^2/\text{NDF}: 134.1/6$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

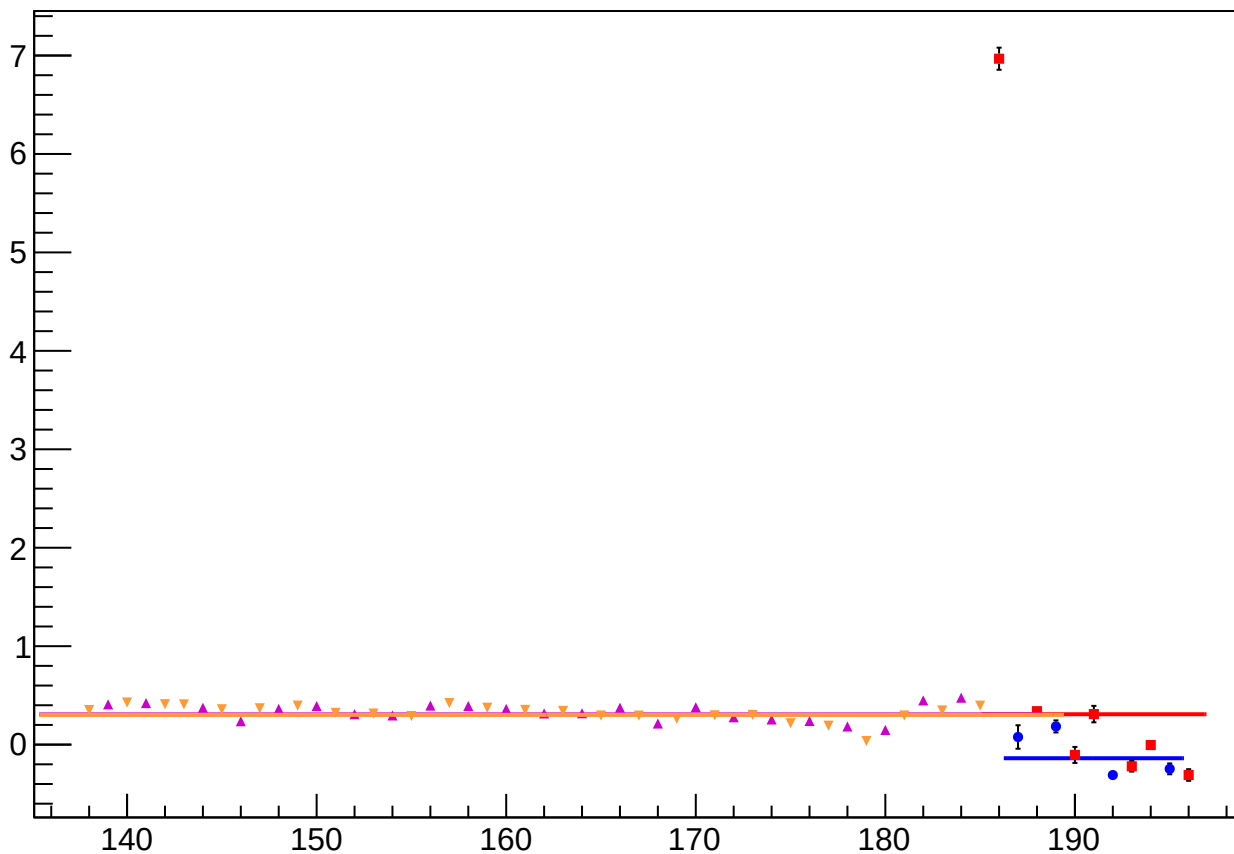
Right: 12.508 ± 0.491 $\chi^2/\text{NDF}: 232.4/10$

In: 8.604 ± 0.046 $\chi^2/\text{NDF}: 5554.7/26$

Out: 8.459 ± 0.045 $\chi^2/\text{NDF}: 6720.9/31$

All: 8.530 ± 0.032 $\chi^2/\text{NDF}: 12280.6/58$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.138 ± 0.031 $\chi^2/\text{NDF}: 46.3/3$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.309 ± 0.023 $\chi^2/\text{NDF}: 3793.6/6$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

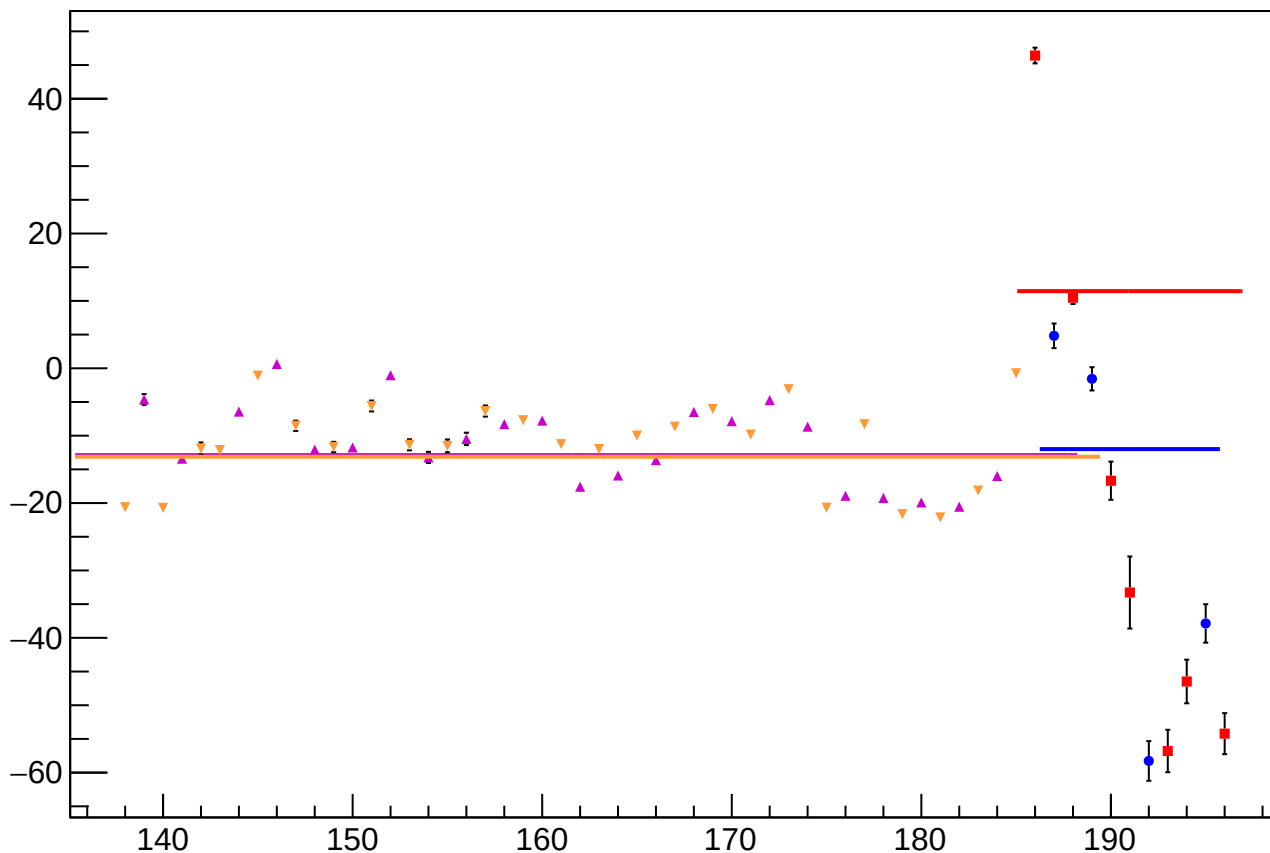
Right: 0.149 ± 0.018 $\chi^2/\text{NDF}: 3975.1/10$

In: 0.305 ± 0.002 $\chi^2/\text{NDF}: 1954.0/26$

Out: 0.303 ± 0.002 $\chi^2/\text{NDF}: 5384.6/31$

All: 0.304 ± 0.001 $\chi^2/\text{NDF}: 7339.3/58$

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.991 ± 1.070 $\chi^2/\text{NDF}: 450.6/3$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 11.448 ± 0.652 $\chi^2/\text{NDF}: 2323.3/6$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

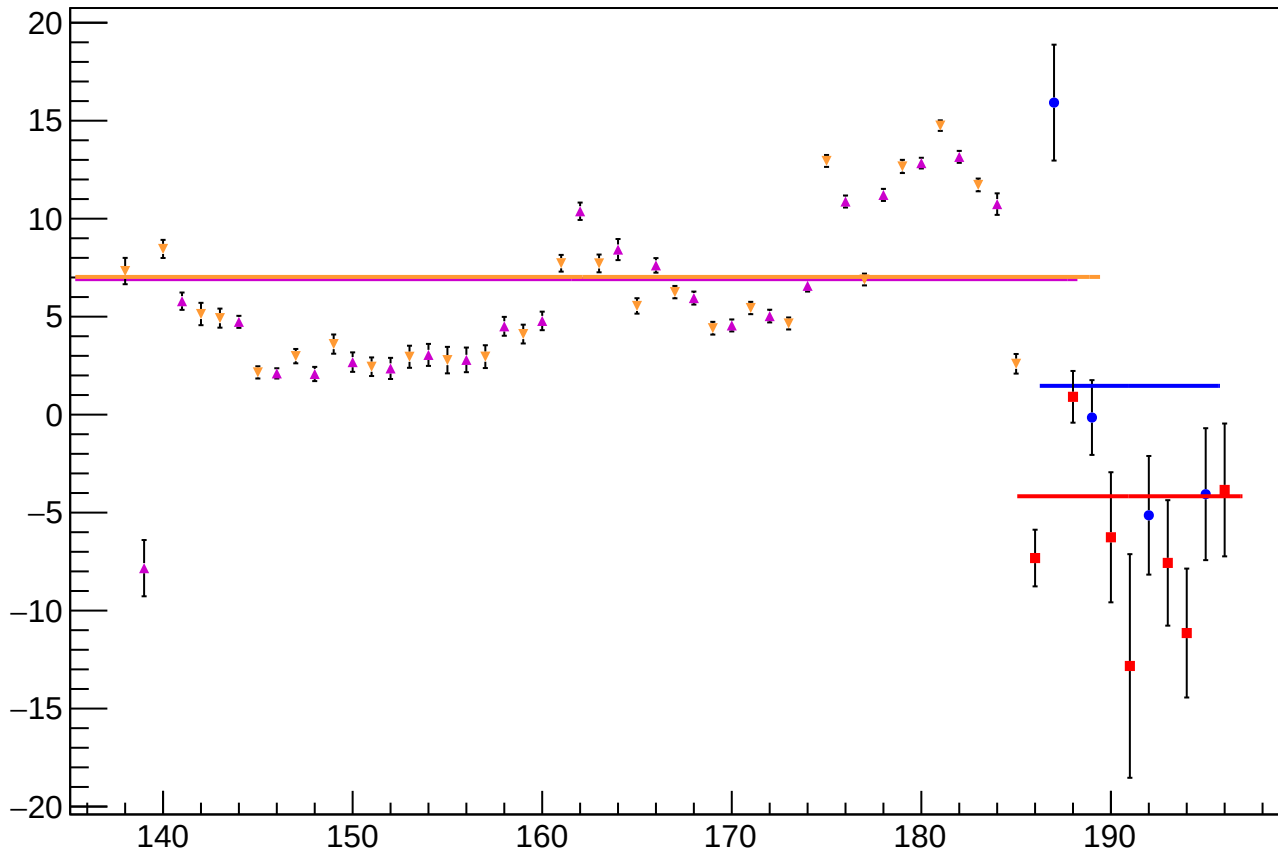
Right: 5.097 ± 0.557 $\chi^2/\text{NDF}: 3123.6/10$

In: -12.878 ± 0.095 $\chi^2/\text{NDF}: 5227.4/26$

Out: -12.629 ± 0.093 $\chi^2/\text{NDF}: 9691.0/31$

All: -12.751 ± 0.066 $\chi^2/\text{NDF}: 14922.0/58$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.469 ± 1.306 $\chi^2/\text{NDF}: 32.1/3$

Left Out: 7.028 ± 0.077 $\chi^2/\text{NDF}: 2665.3/24$

Right Out: -4.165 ± 0.830 $\chi^2/\text{NDF}: 27.9/6$

Left In: 6.914 ± 0.078 $\chi^2/\text{NDF}: 2428.2/22$

Left: 6.971 ± 0.055 $\chi^2/\text{NDF}: 5094.6/47$

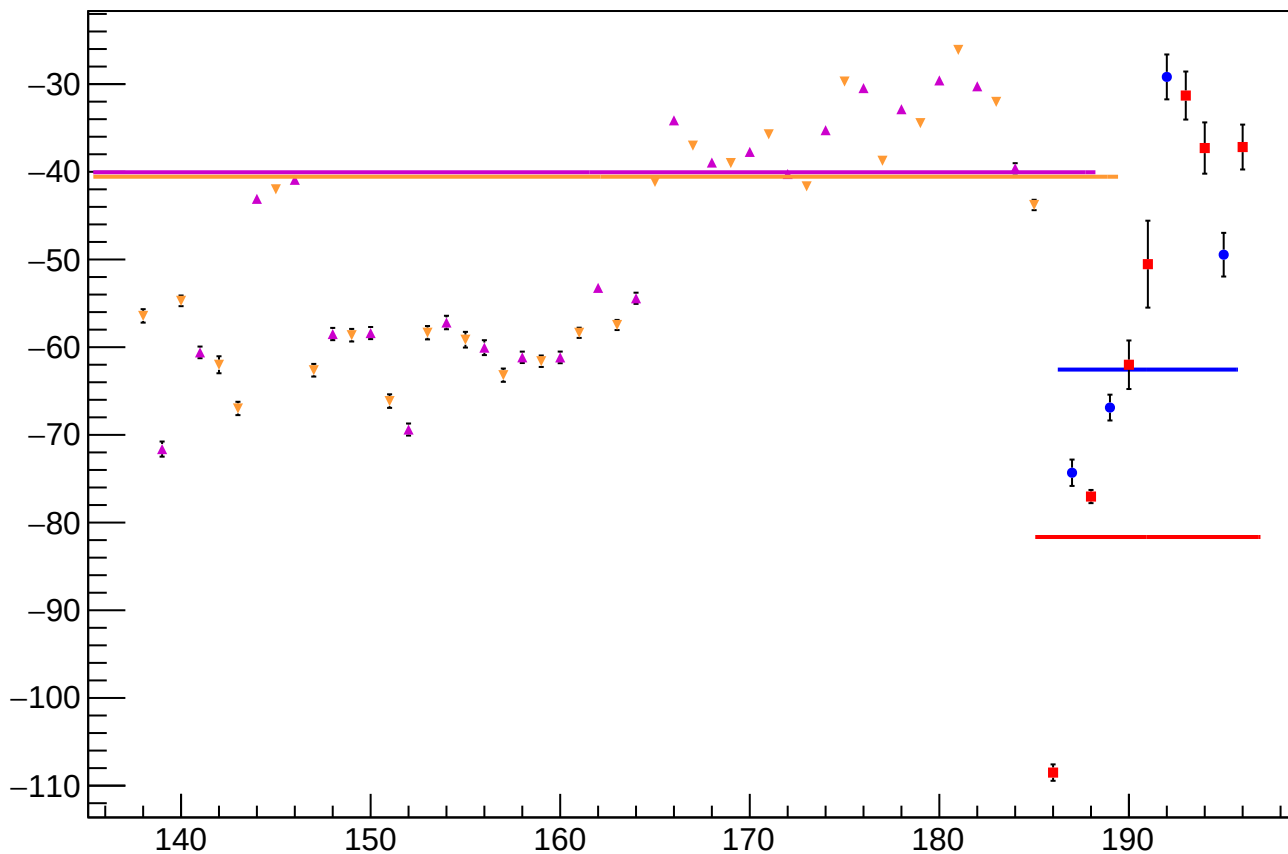
Right: -2.544 ± 0.701 $\chi^2/\text{NDF}: 73.2/10$

In: 6.895 ± 0.078 $\chi^2/\text{NDF}: 2477.6/26$

Out: 6.932 ± 0.077 $\chi^2/\text{NDF}: 2873.5/31$

All: 6.913 ± 0.055 $\chi^2/\text{NDF}: 5351.2/58$

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.553+/-0.906 χ^2/NDF : 267.6/3

Left Out: -40.563+/-0.095 χ^2/NDF :15637.6/24

Right Out: -81.645+/-0.536 χ^2/NDF : 1821.8/6

Left In: -40.053+/-0.096 χ^2/NDF :13927.3/22

Left: -40.310+/-0.067 χ^2/NDF : 29579.2/47

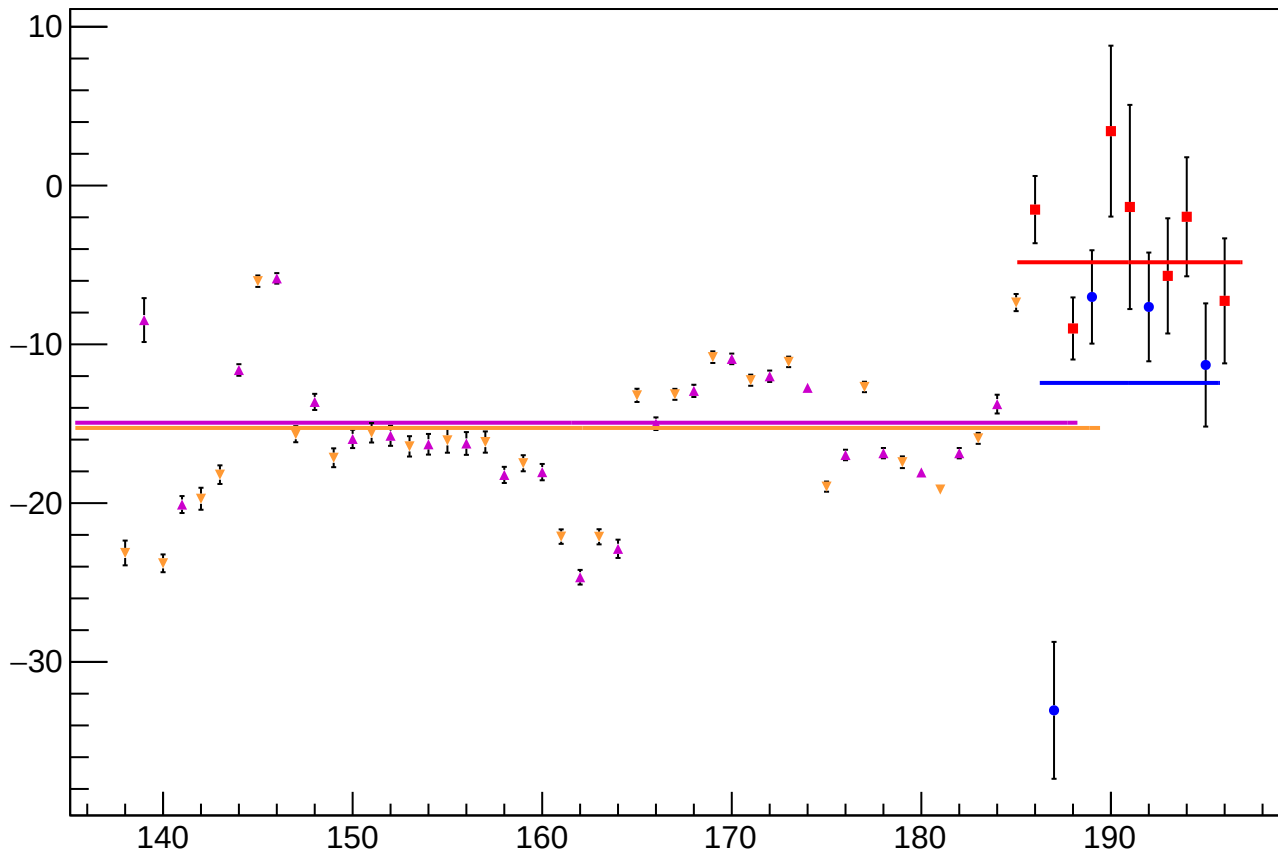
Right: -76.703+/-0.461 χ^2/NDF : 2418.4/10

In: -40.301+/-0.095 χ^2/NDF :14804.7/26

Out: -41.809+/-0.093 χ^2/NDF :23166.2/31

All: -41.070+/-0.067 χ^2/NDF : 38099.0/58

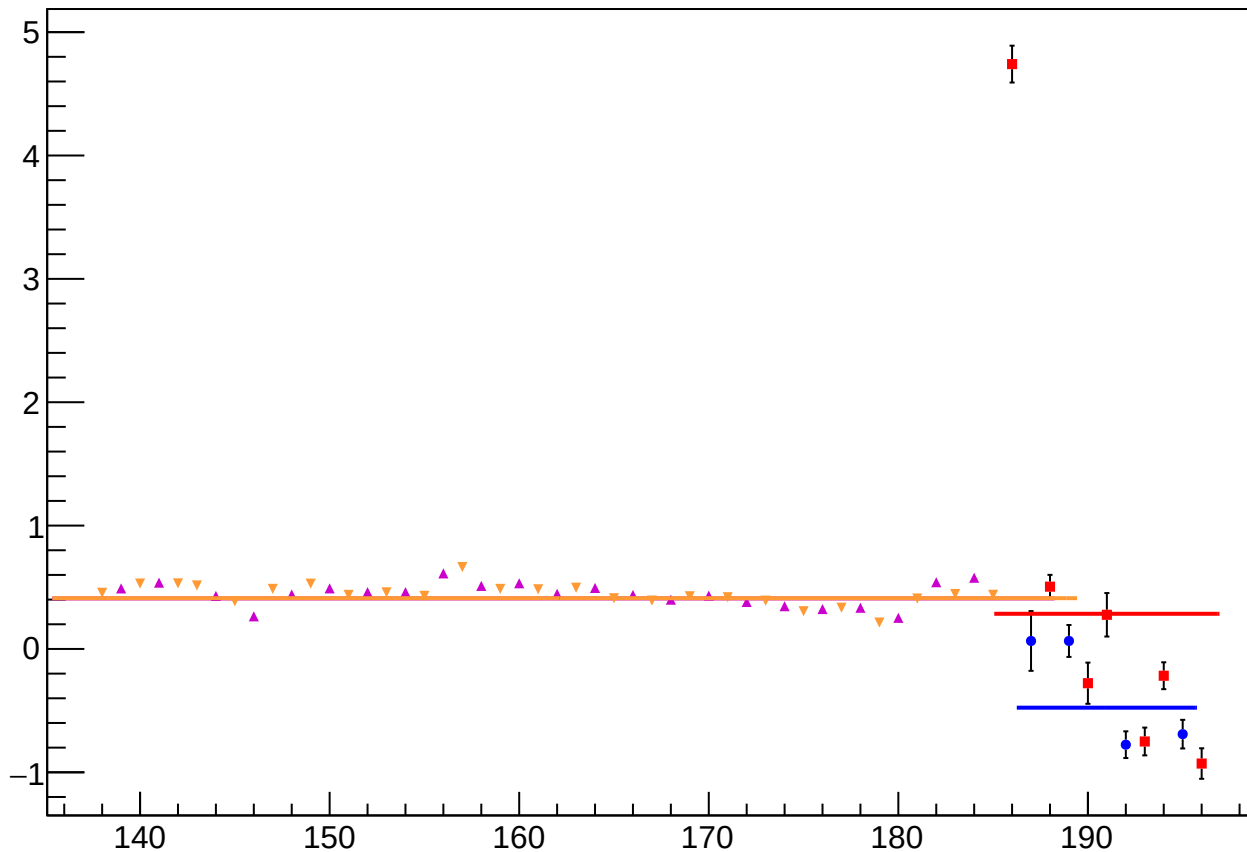
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.429 ± 1.764 $\chi^2/\text{NDF}: 28.3/3$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -4.831 ± 1.151 $\chi^2/\text{NDF}: 10.7/6$
 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: -7.099 ± 0.964 $\chi^2/\text{NDF}: 52.0/10$
 In: -14.930 ± 0.087 $\chi^2/\text{NDF}: 2230.0/26$
 Out: -15.208 ± 0.086 $\chi^2/\text{NDF}: 2687.9/31$
 All: -15.071 ± 0.061 $\chi^2/\text{NDF}: 4923.1/58$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.476 ± 0.065 χ^2/NDF : 33.5/3

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.285 ± 0.047 χ^2/NDF : 1108.6/6

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

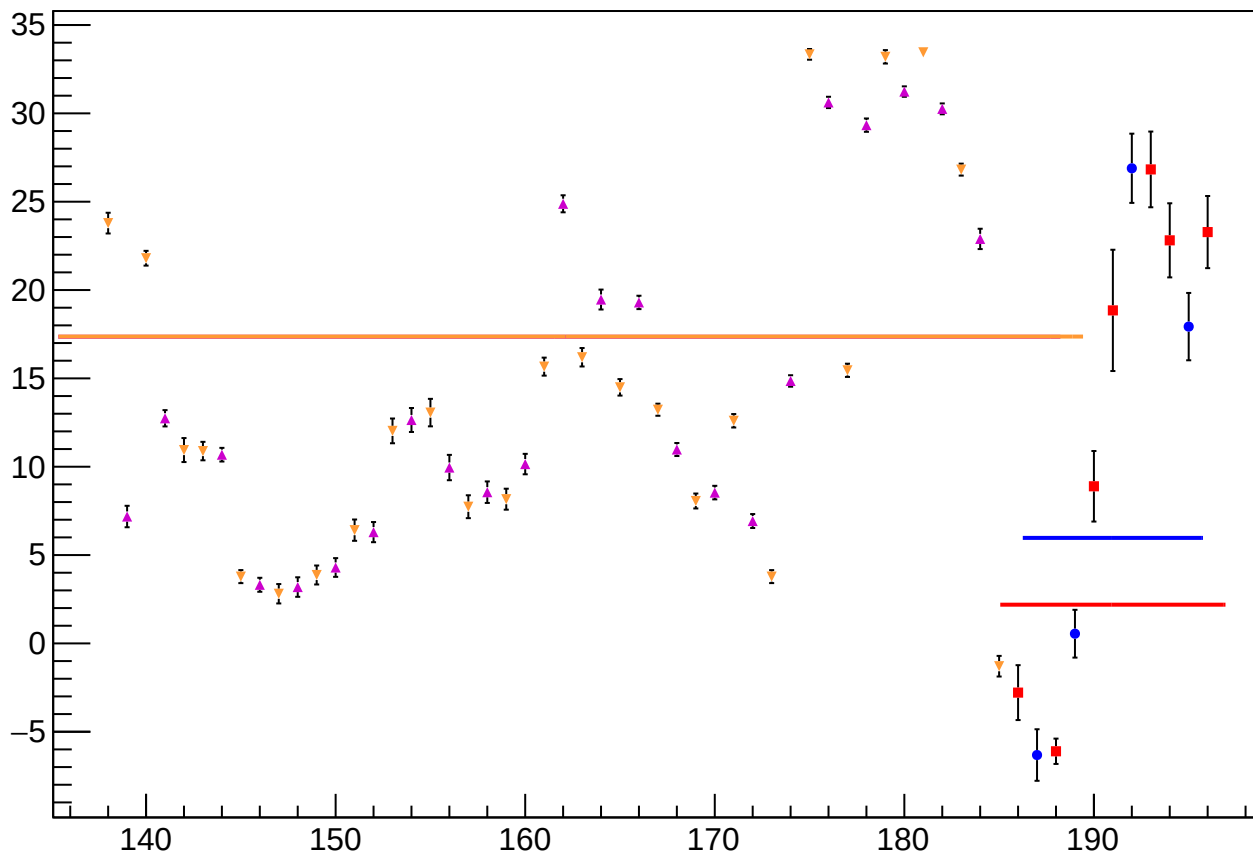
Right: 0.023 ± 0.038 χ^2/NDF : 1231.9/10

In: 0.406 ± 0.004 χ^2/NDF : 776.0/26

Out: 0.411 ± 0.004 χ^2/NDF : 1544.4/31

All: 0.408 ± 0.003 χ^2/NDF : 2321.0/58

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.972 $\pm$ 0.802 χ^2 /NDF: 240.5/3

Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24

Right Out: 2.191 $\pm$ 0.544 χ^2 /NDF: 514.7/6

Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47

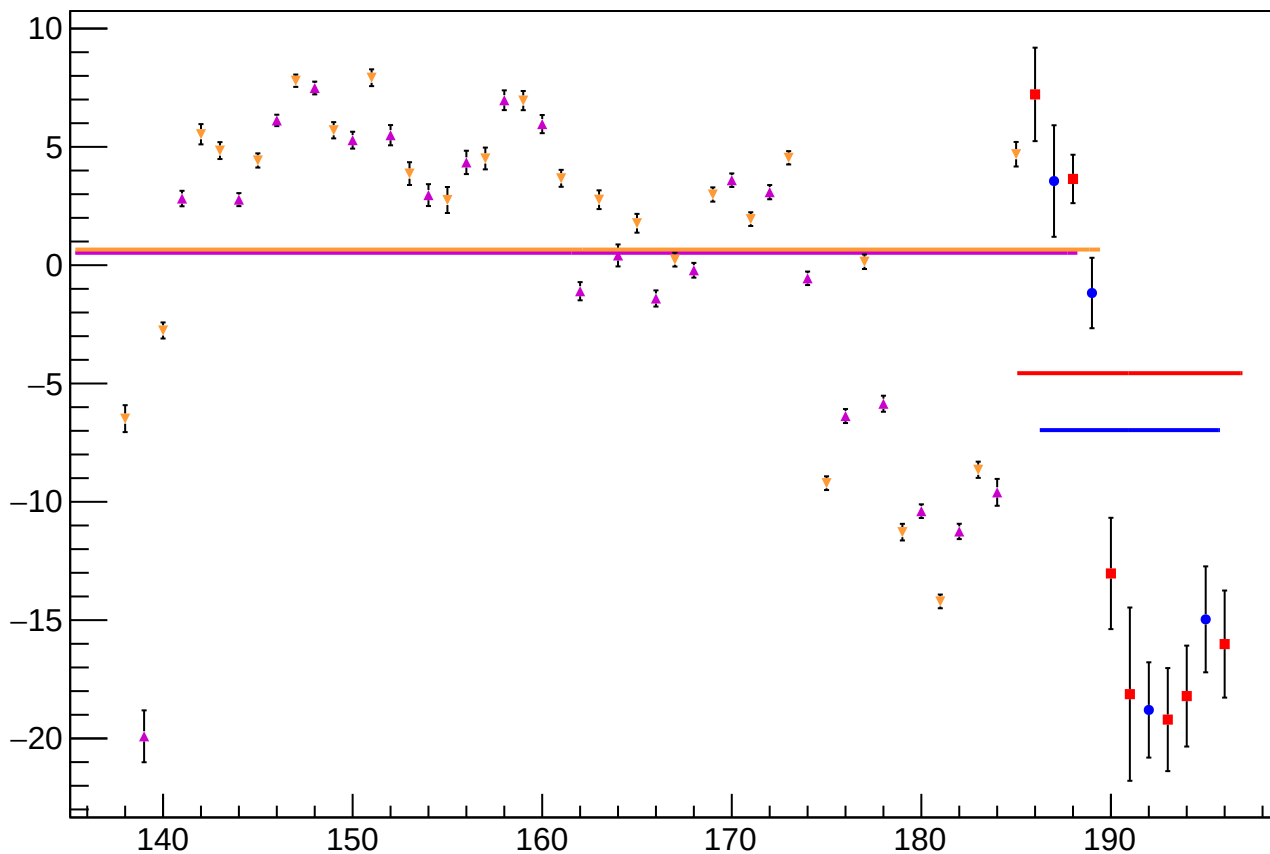
Right: 3.381 $\pm$ 0.450 χ^2 /NDF: 770.4/10

In: 17.217 $\pm$ 0.088 χ^2 /NDF:13184.4/26

Out: 16.988 $\pm$ 0.086 χ^2 /NDF:17611.6/31

All: 17.099 $\pm$ 0.062 χ^2 /NDF: 30799.5/58

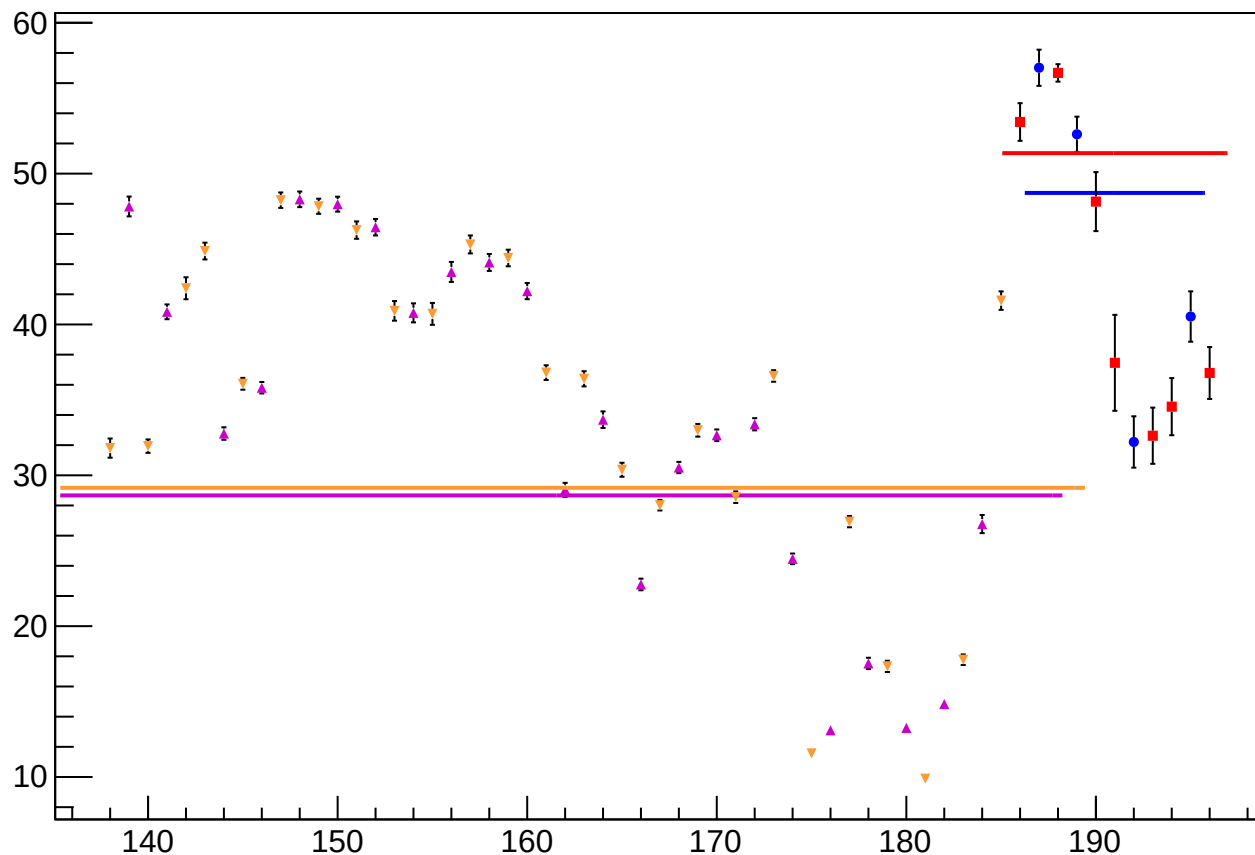
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.970 ± 0.963 $\chi^2/\text{NDF}: 82.4/3$
 Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$
 Right Out: -4.564 ± 0.691 $\chi^2/\text{NDF}: 238.4/6$
 Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$
 Right: -5.382 ± 0.562 $\chi^2/\text{NDF}: 324.9/10$
 In: 0.484 ± 0.071 $\chi^2/\text{NDF}: 6872.3/26$
 Out: 0.609 ± 0.069 $\chi^2/\text{NDF}: 8848.8/31$
 All: 0.548 ± 0.049 $\chi^2/\text{NDF}: 15722.7/58$

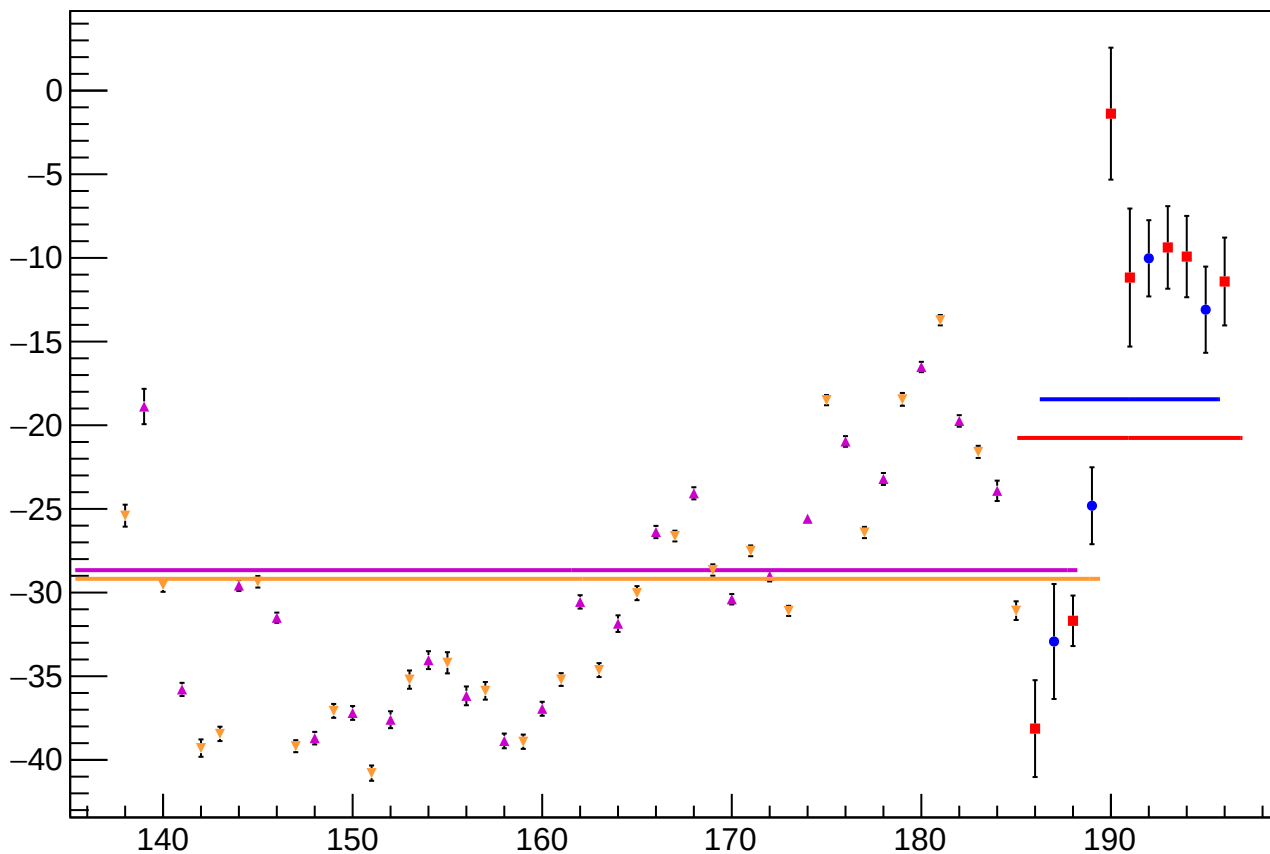
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 48.721 $\pm$ 0.685 χ^2 /NDF: 177.1/3
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 51.358 $\pm$ 0.452 χ^2 /NDF: 360.7/6
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 50.557 $\pm$ 0.377 χ^2 /NDF: 548.1/10
 In: 29.001 $\pm$ 0.088 χ^2 /NDF:17868.1/26
 Out: 29.977 $\pm$ 0.086 χ^2 /NDF:21657.0/31
 All: 29.502 $\pm$ 0.062 χ^2 /NDF: 39587.6/58

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



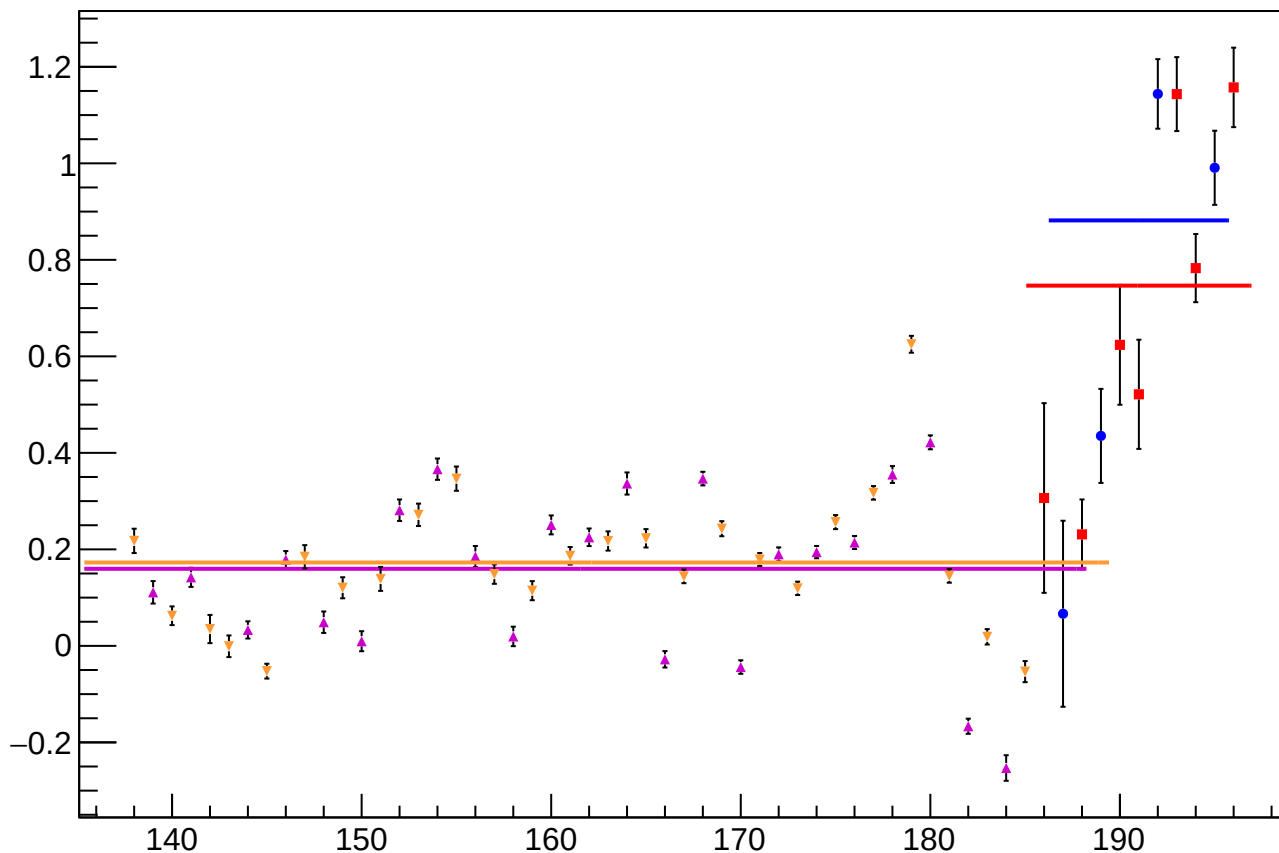
Right In: -18.448 ± 1.273 $\chi^2/\text{NDF}: 43.4/3$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -20.759 ± 0.928 $\chi^2/\text{NDF}: 171.9/6$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -19.956 ± 0.750 $\chi^2/\text{NDF}: 217.5/10$

In: -28.620 ± 0.080 $\chi^2/\text{NDF}: 6777.7/26$
 Out: -29.119 ± 0.078 $\chi^2/\text{NDF}: 9334.9/31$

All: -28.875 ± 0.056 $\chi^2/\text{NDF}: 16132.6/58$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.882 $\pm$ 0.045 χ^2/NDF : 54.1/3

Left Out: 0.173 $\pm$ 0.004 χ^2/NDF :1478.5/24

Right Out: 0.747 $\pm$ 0.034 χ^2/NDF : 112.7/6

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

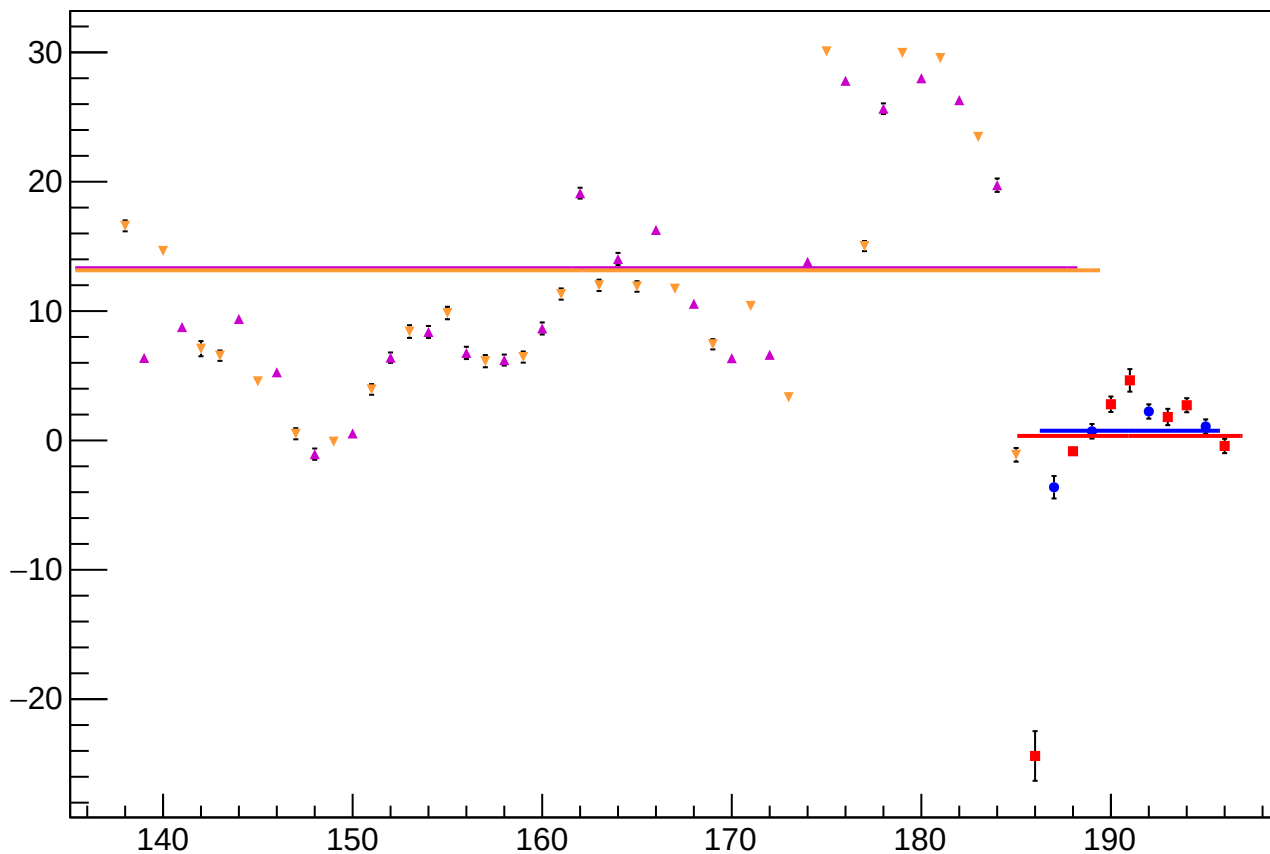
Right: 0.795 $\pm$ 0.027 χ^2/NDF : 172.6/10

In: 0.164 $\pm$ 0.004 χ^2/NDF :2368.1/26

Out: 0.179 $\pm$ 0.004 χ^2/NDF :1877.1/31

All: 0.172 $\pm$ 0.003 χ^2/NDF : 4253.6/58

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.751 ± 0.301 χ^2/NDF : 32.9/3

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: 0.350 ± 0.196 χ^2/NDF : 251.2/6

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

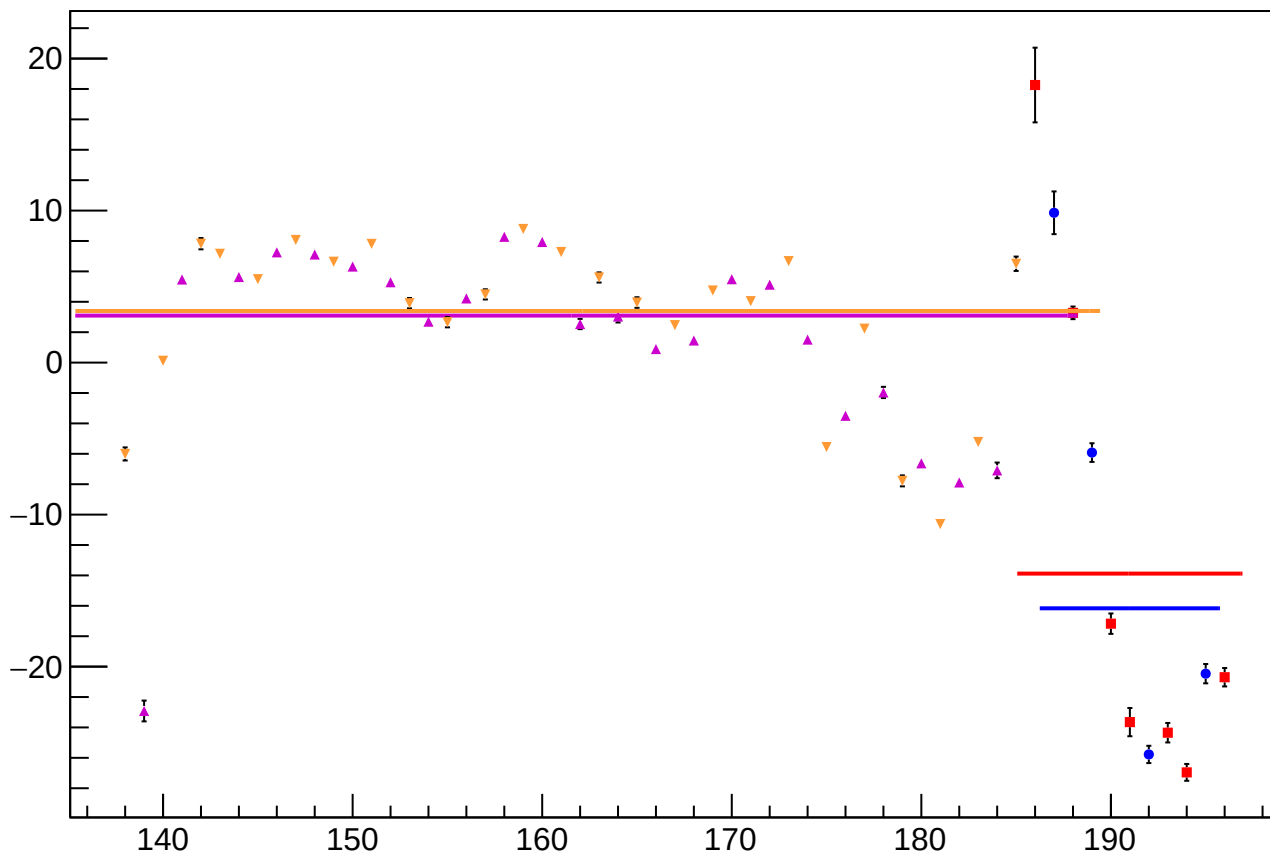
Right: 0.469 ± 0.164 χ^2/NDF : 285.4/10

In: 12.541 ± 0.075 χ^2/NDF : 15646.9/26

Out: 11.506 ± 0.070 χ^2/NDF : 21057.3/31

All: 11.992 ± 0.051 χ^2/NDF : 36806.0/58

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -16.164 ± 0.339 $\chi^2/\text{NDF}: 952.3/3$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -13.880 ± 0.237 $\chi^2/\text{NDF}: 2968.5/6$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

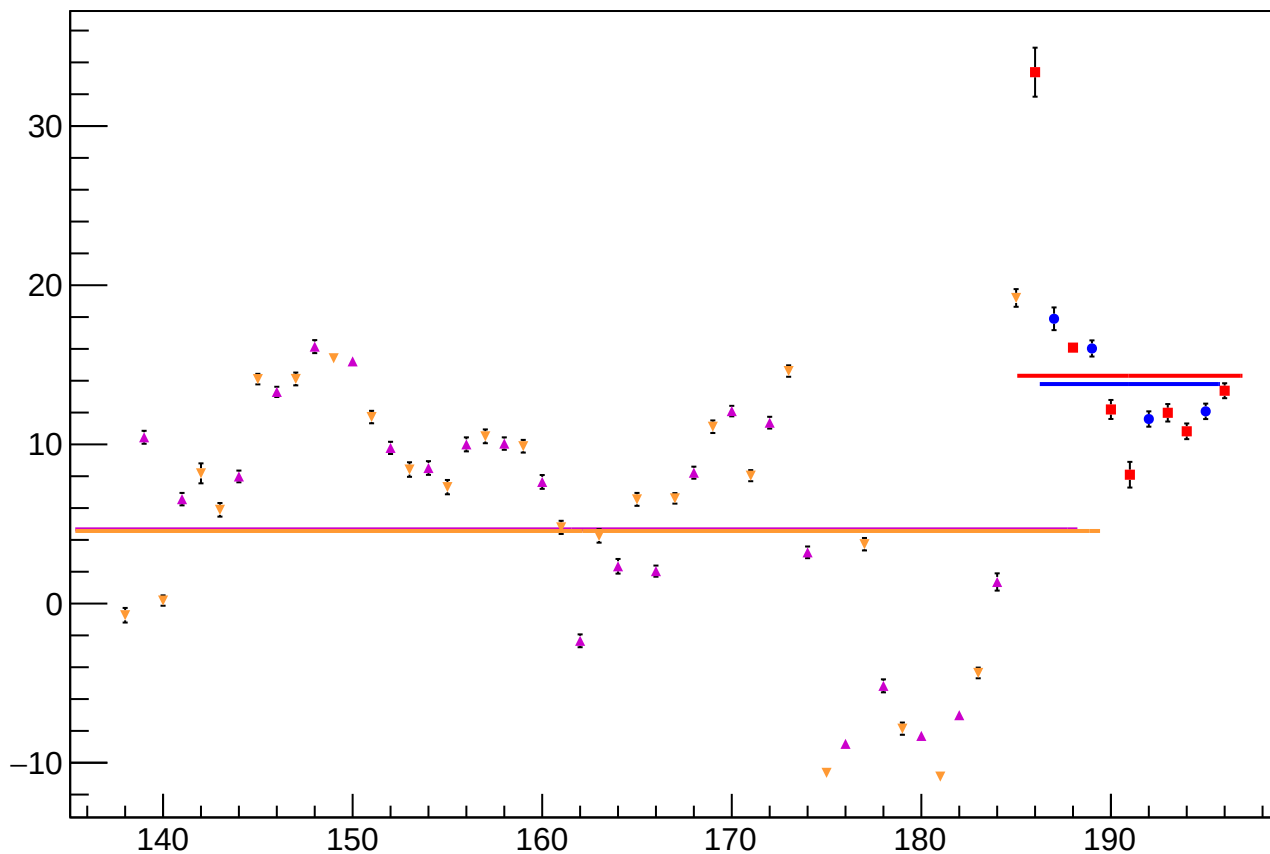
Right: -14.632 ± 0.194 $\chi^2/\text{NDF}: 3951.3/10$

In: 2.495 ± 0.060 $\chi^2/\text{NDF}: 11191.4/26$

Out: 2.409 ± 0.057 $\chi^2/\text{NDF}: 16071.7/31$

All: 2.450 ± 0.041 $\chi^2/\text{NDF}: 27264.3/58$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.791+/-0.263 χ^2/NDF : 85.7/3

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 14.312+/-0.167 χ^2/NDF : 357.3/6

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

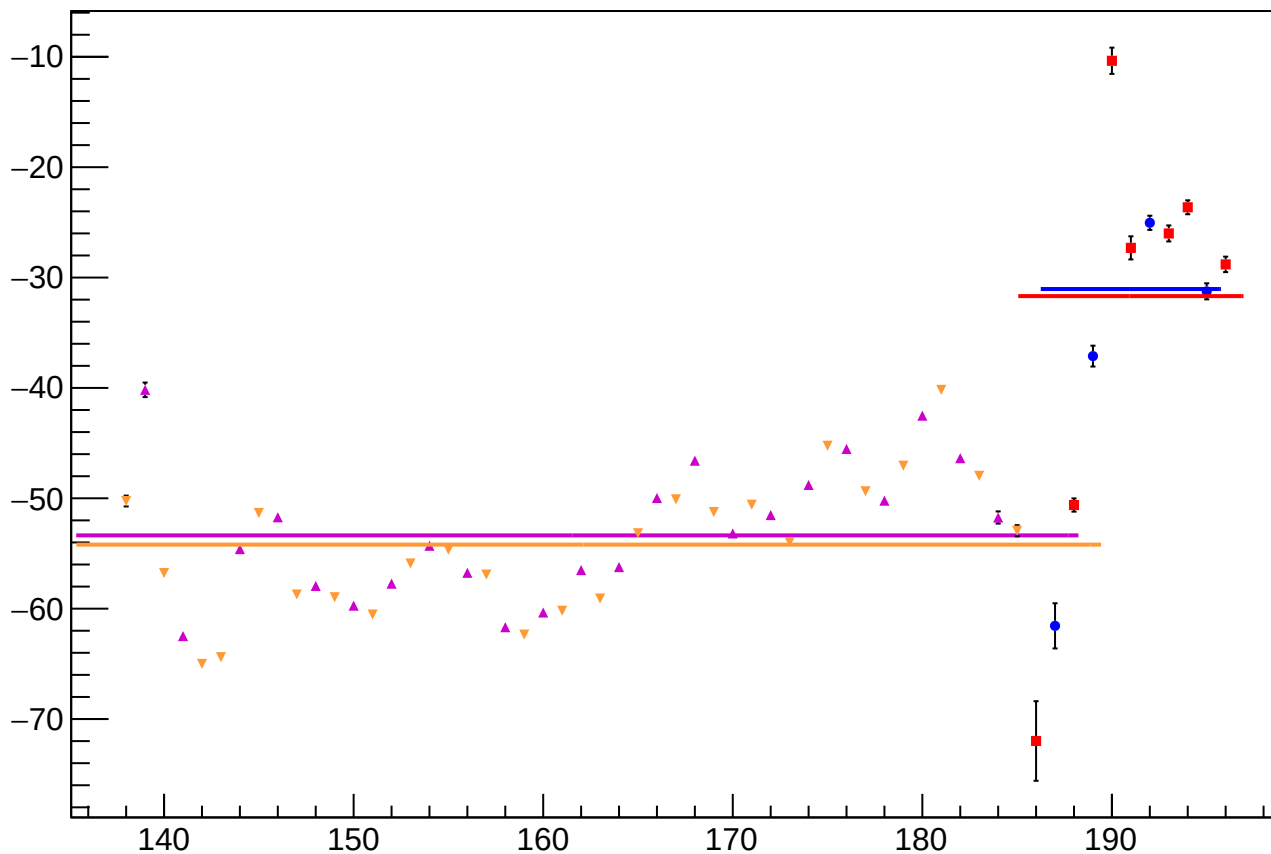
Right: 14.162+/-0.141 χ^2/NDF : 445.8/10

In: 5.377+/-0.074 χ^2/NDF :12473.9/26

Out: 6.212+/-0.069 χ^2/NDF :16781.9/31

All: 5.824+/-0.050 χ^2/NDF : 29324.4/58

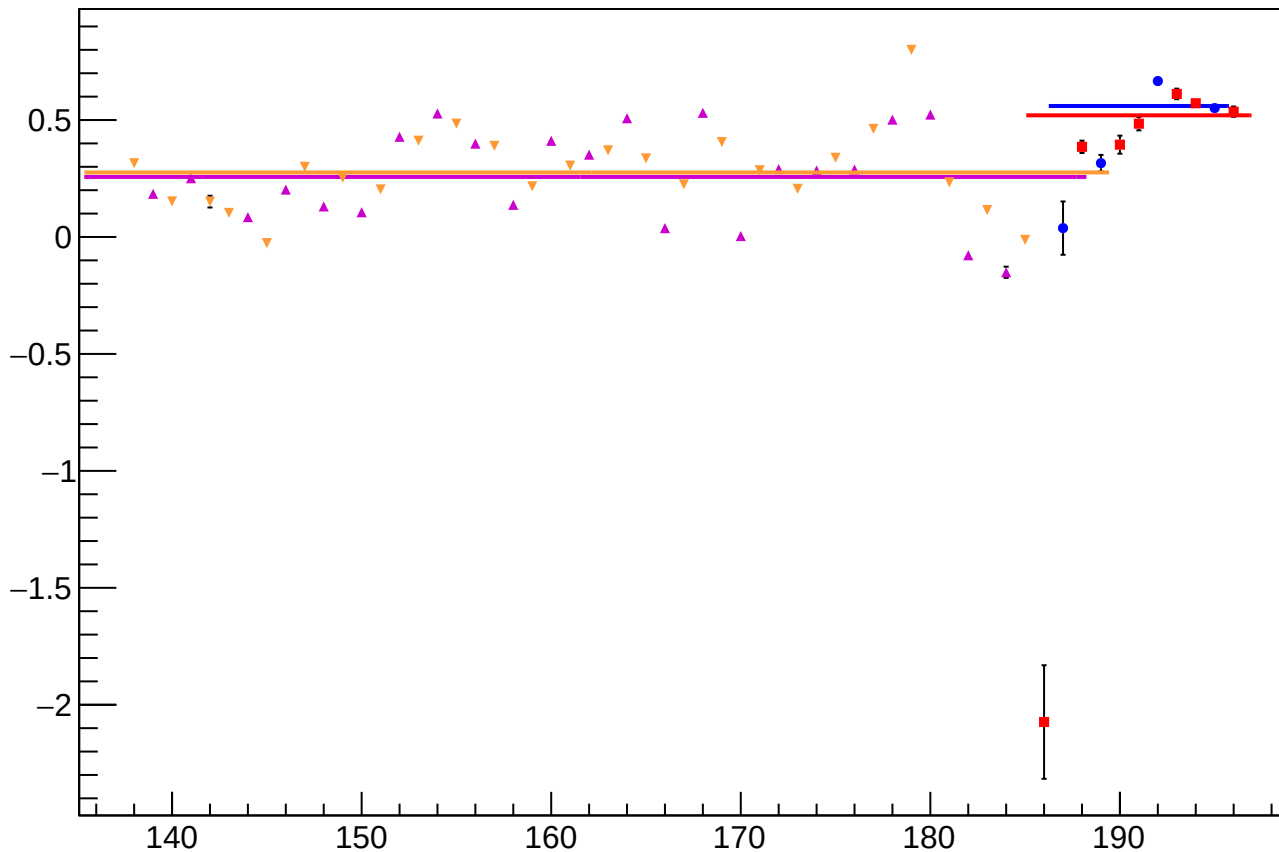
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -31.039 ± 0.420 $\chi^2/\text{NDF}: 350.7/3$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -31.681 ± 0.303 $\chi^2/\text{NDF}: 1703.4/6$
 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: -31.462 ± 0.246 $\chi^2/\text{NDF}: 2055.6/10$
 In: -52.782 ± 0.068 $\chi^2/\text{NDF}: 9980.0/26$
 Out: -53.165 ± 0.065 $\chi^2/\text{NDF}: 15439.6/31$
 All: -52.981 ± 0.047 $\chi^2/\text{NDF}: 25436.3/58$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.560 $\pm$ 0.014 χ^2 /NDF: 97.0/3

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.520 $\pm$ 0.010 χ^2 /NDF: 177.2/6

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

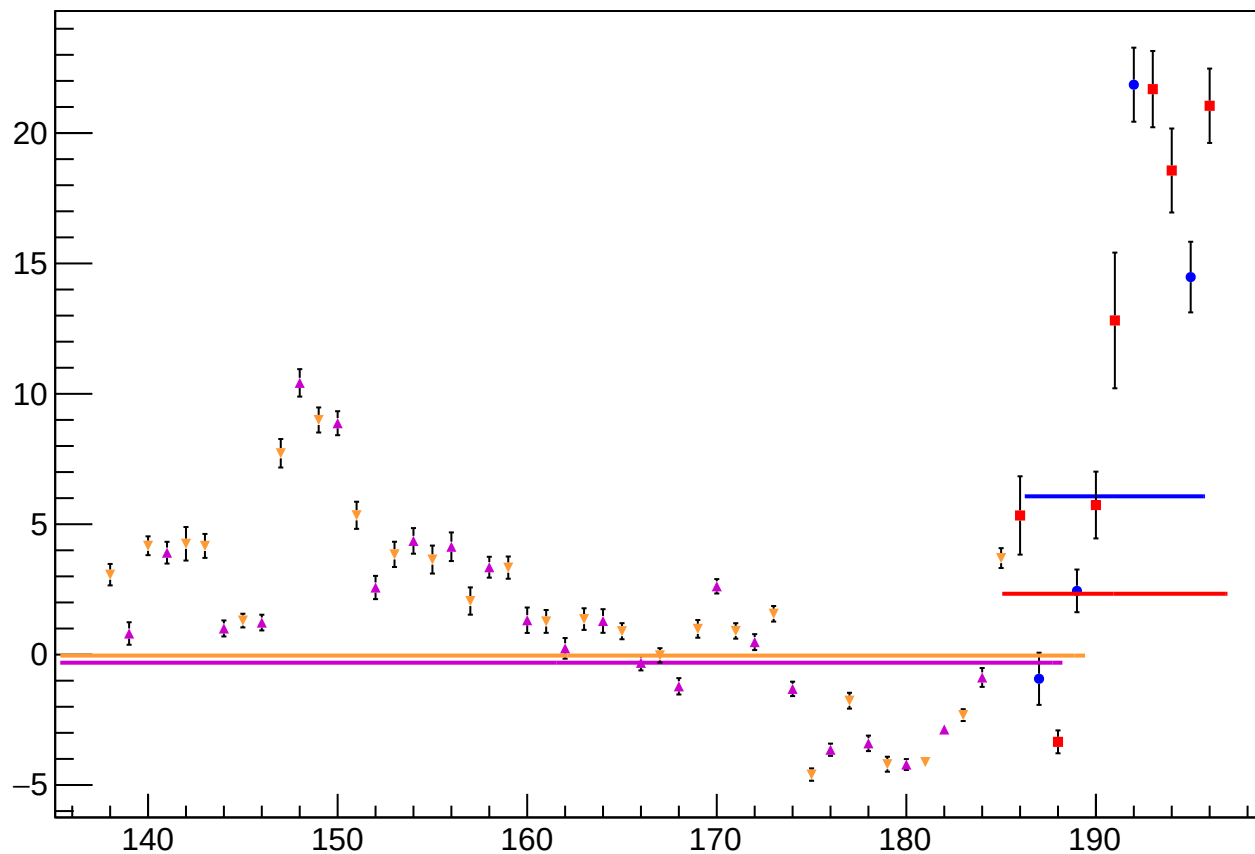
Right: 0.534 $\pm$ 0.008 χ^2 /NDF: 279.9/10

In: 0.272 $\pm$ 0.003 χ^2 /NDF:4198.0/26

Out: 0.297 $\pm$ 0.003 χ^2 /NDF:3364.2/31

All: 0.285 $\pm$ 0.002 χ^2 /NDF: 7599.2/58

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.070 $\pm$ 0.532 χ^2 /NDF: 230.7/3

Left Out: -0.037 $\pm$ 0.066 χ^2 /NDF: 2637.7/24

Right Out: 2.334 $\pm$ 0.360 χ^2 /NDF: 643.8/6

Left In: -0.310 $\pm$ 0.067 χ^2 /NDF: 2250.5/22

Left: -0.171 $\pm$ 0.047 χ^2 /NDF: 4896.5/47

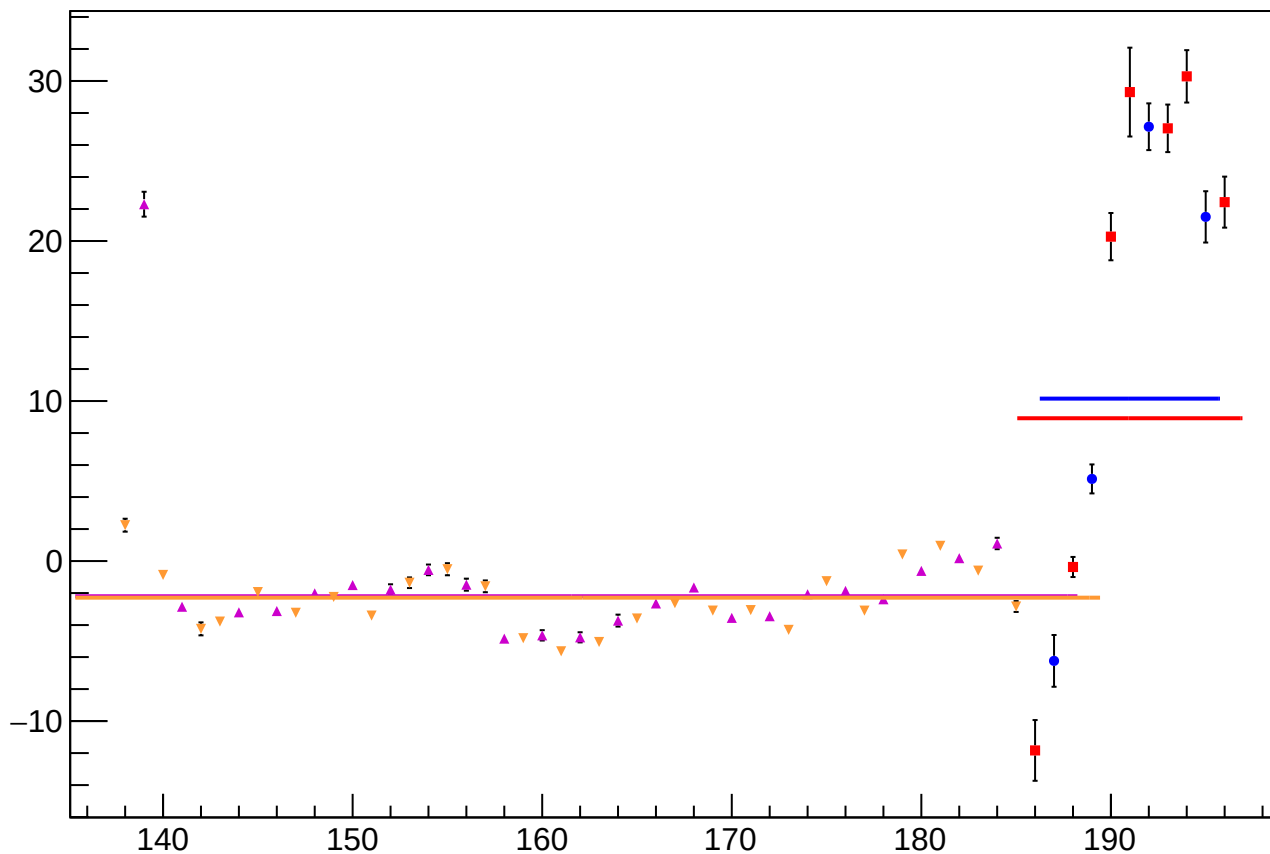
Right: 3.505 $\pm$ 0.298 χ^2 /NDF: 908.3/10

In: -0.210 $\pm$ 0.067 χ^2 /NDF: 2622.7/26

Out: 0.040 $\pm$ 0.065 χ^2 /NDF: 3323.5/31

All: -0.081 $\pm$ 0.047 χ^2 /NDF: 5953.4/58

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.151 $\pm$ 0.638 χ^2 /NDF: 318.9/3

Left Out: -2.288 $\pm$ 0.054 χ^2 /NDF:1137.7/24

Right Out: 8.924 $\pm$ 0.465 χ^2 /NDF: 842.6/6

Left In: -2.198 $\pm$ 0.055 χ^2 /NDF:1673.9/22

Left: -2.244 $\pm$ 0.039 χ^2 /NDF: 2813.0/47

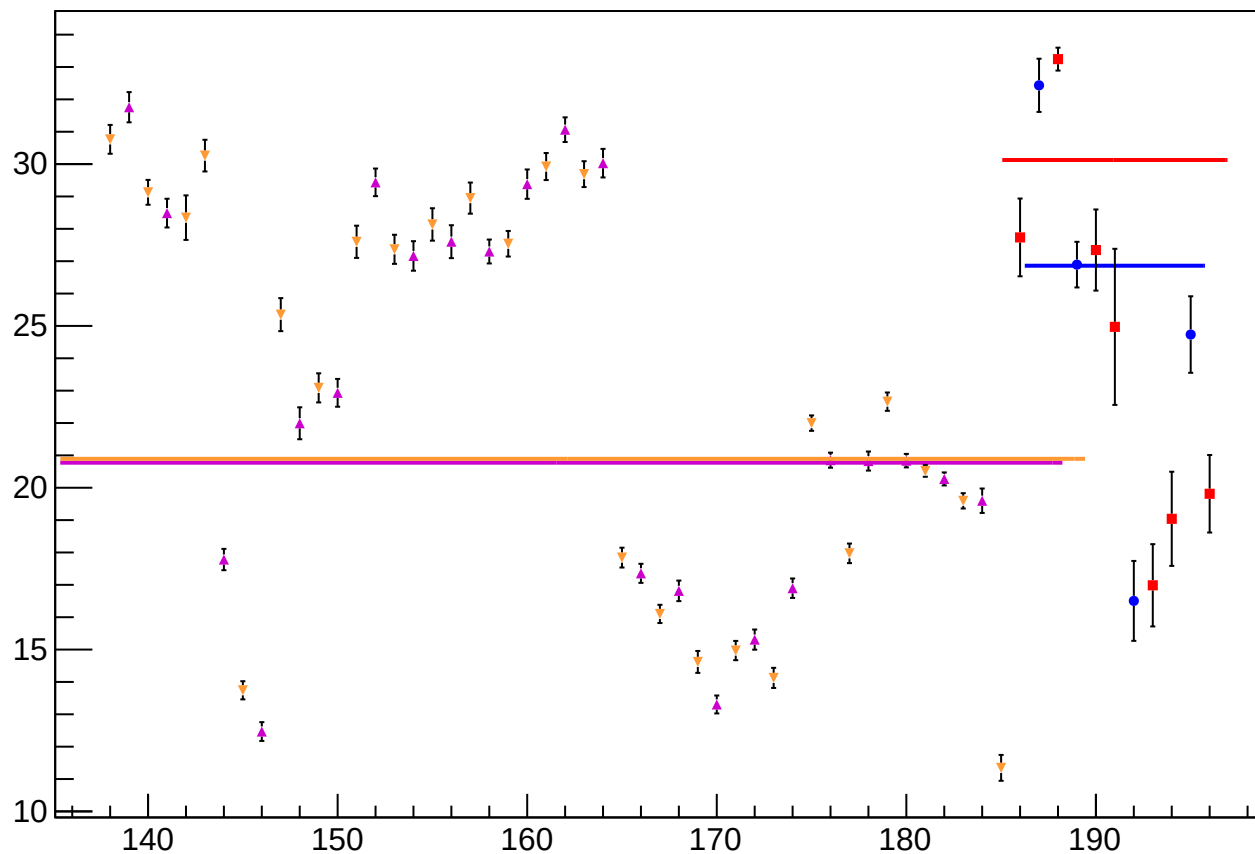
Right: 9.350 $\pm$ 0.376 χ^2 /NDF: 1163.9/10

In: -2.106 $\pm$ 0.055 χ^2 /NDF:2365.2/26

Out: -2.138 $\pm$ 0.054 χ^2 /NDF:2553.7/31

All: -2.123 $\pm$ 0.038 χ^2 /NDF: 4919.1/58

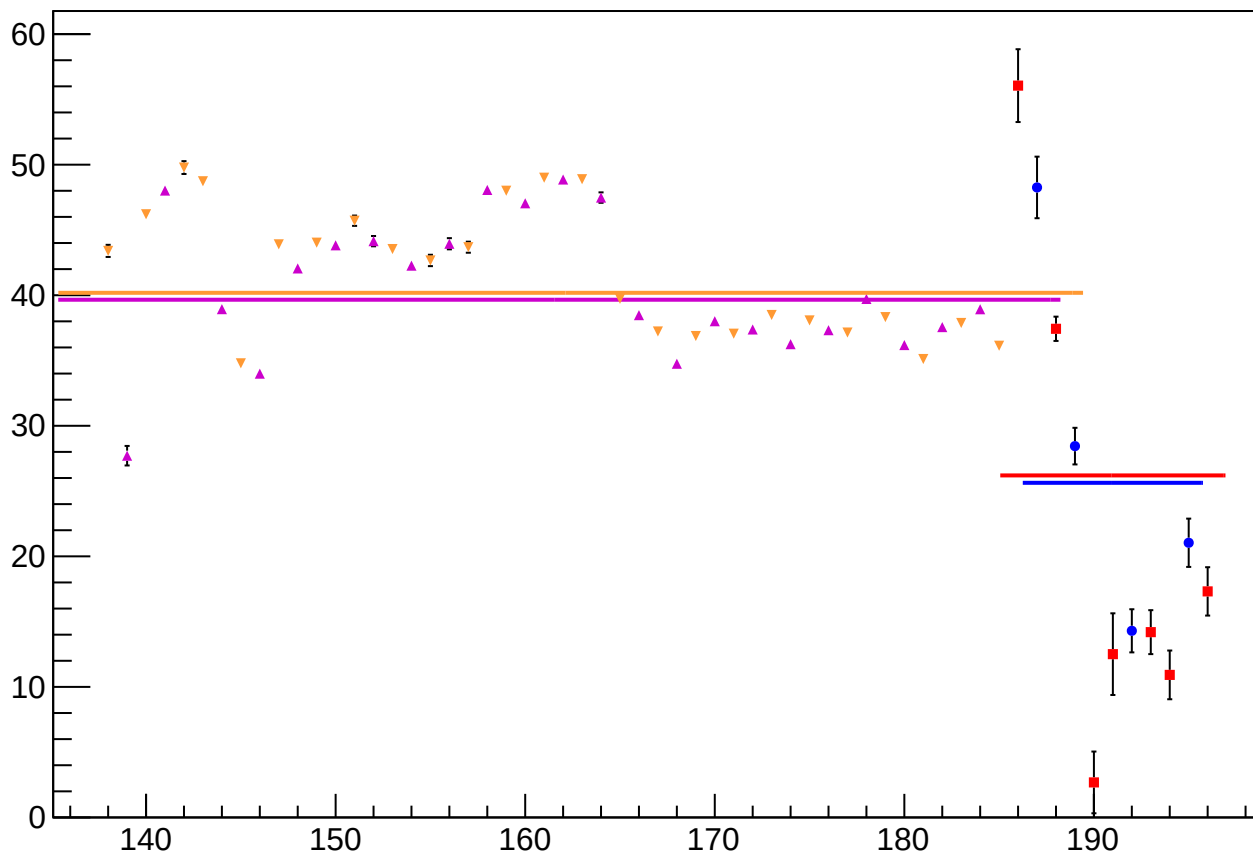
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 26.860 $\pm$ 0.453 χ^2 /NDF: 119.6/3
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF: 6655.4/24
 Right Out: 30.127 $\pm$ 0.298 χ^2 /NDF: 330.1/6
 Left In: 20.774 $\pm$ 0.068 χ^2 /NDF: 5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47
 Right: 29.142 $\pm$ 0.249 χ^2 /NDF: 486.0/10
 In: 20.906 $\pm$ 0.067 χ^2 /NDF: 6223.7/26
 Out: 21.335 $\pm$ 0.065 χ^2 /NDF: 7900.4/31
 All: 21.126 $\pm$ 0.047 χ^2 /NDF: 14145.2/58

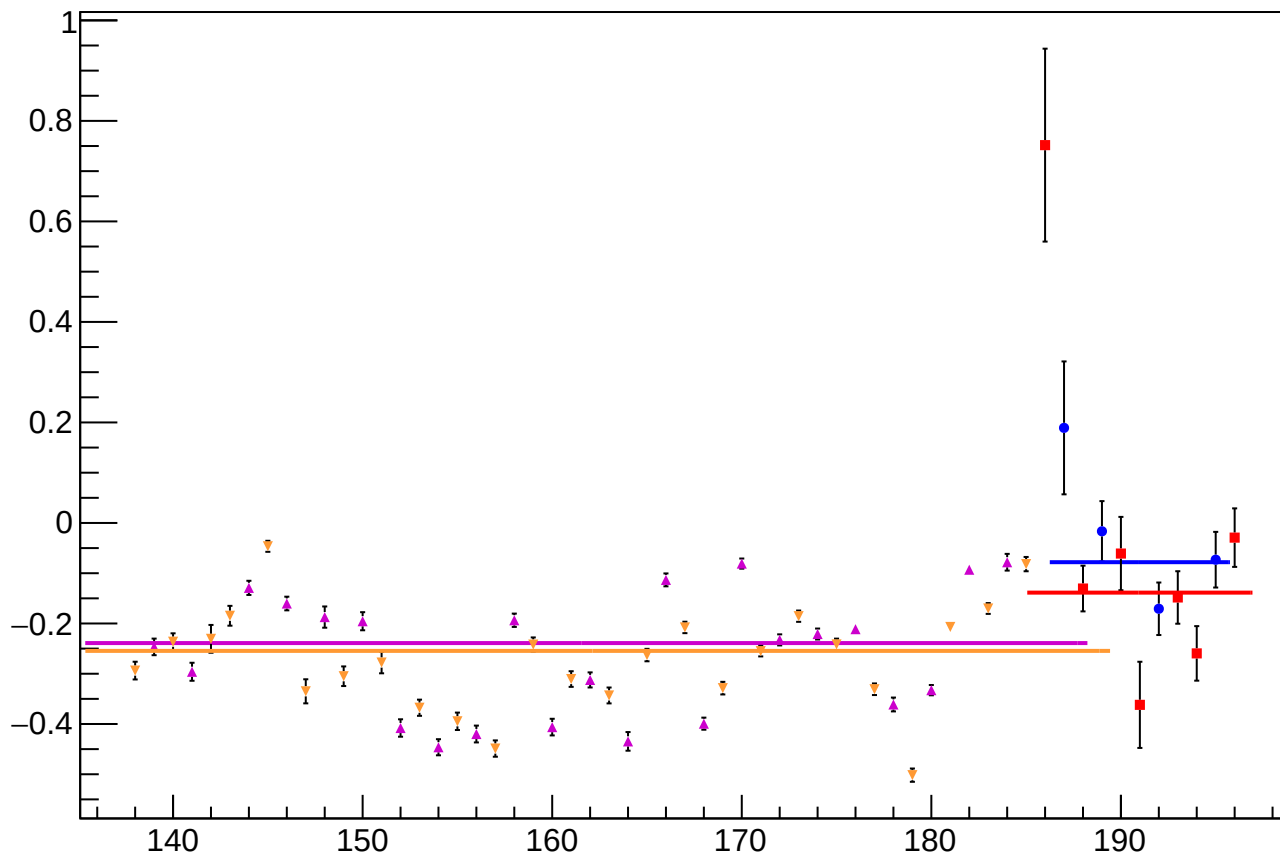
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 25.632 $\pm$ 0.862 χ^2 /NDF: 149.4/3
 Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24
 Right Out: 26.198 $\pm$ 0.633 χ^2 /NDF: 519.4/6
 Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47
 Right: 26.000 $\pm$ 0.510 χ^2 /NDF: 669.1/10
 In: 39.584 $\pm$ 0.061 χ^2 /NDF: 5711.5/26
 Out: 40.060 $\pm$ 0.060 χ^2 /NDF: 6936.3/31
 All: 39.827 $\pm$ 0.043 χ^2 /NDF: 12678.6/58

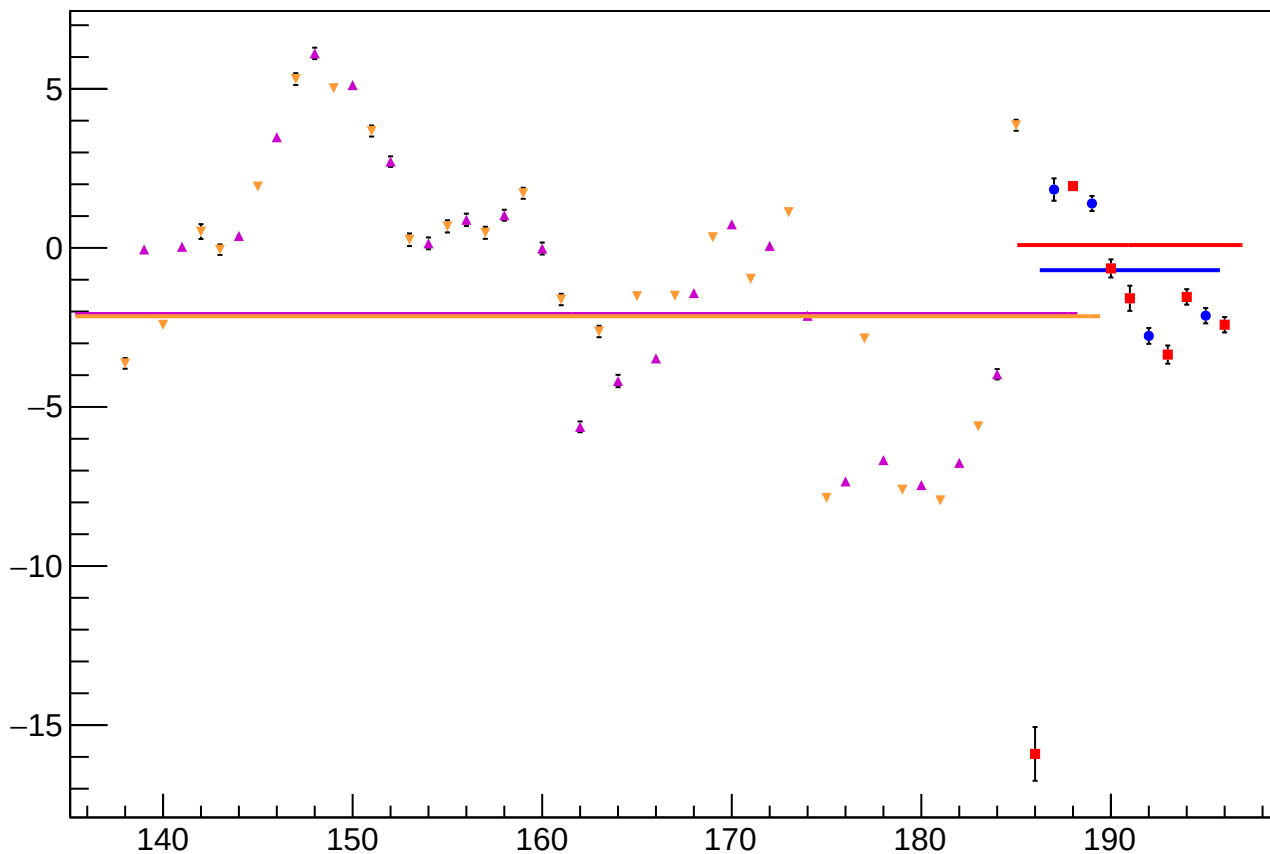
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.078 ± 0.031 χ^2/NDF : 8.3/3
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.139 ± 0.023 χ^2/NDF : 38.0/6
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.117 ± 0.019 χ^2/NDF : 48.7/10
 In: -0.238 ± 0.003 χ^2/NDF : 1785.2/26
 Out: -0.253 ± 0.003 χ^2/NDF : 1482.8/31
 All: -0.245 ± 0.002 χ^2/NDF : 3283.3/58

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

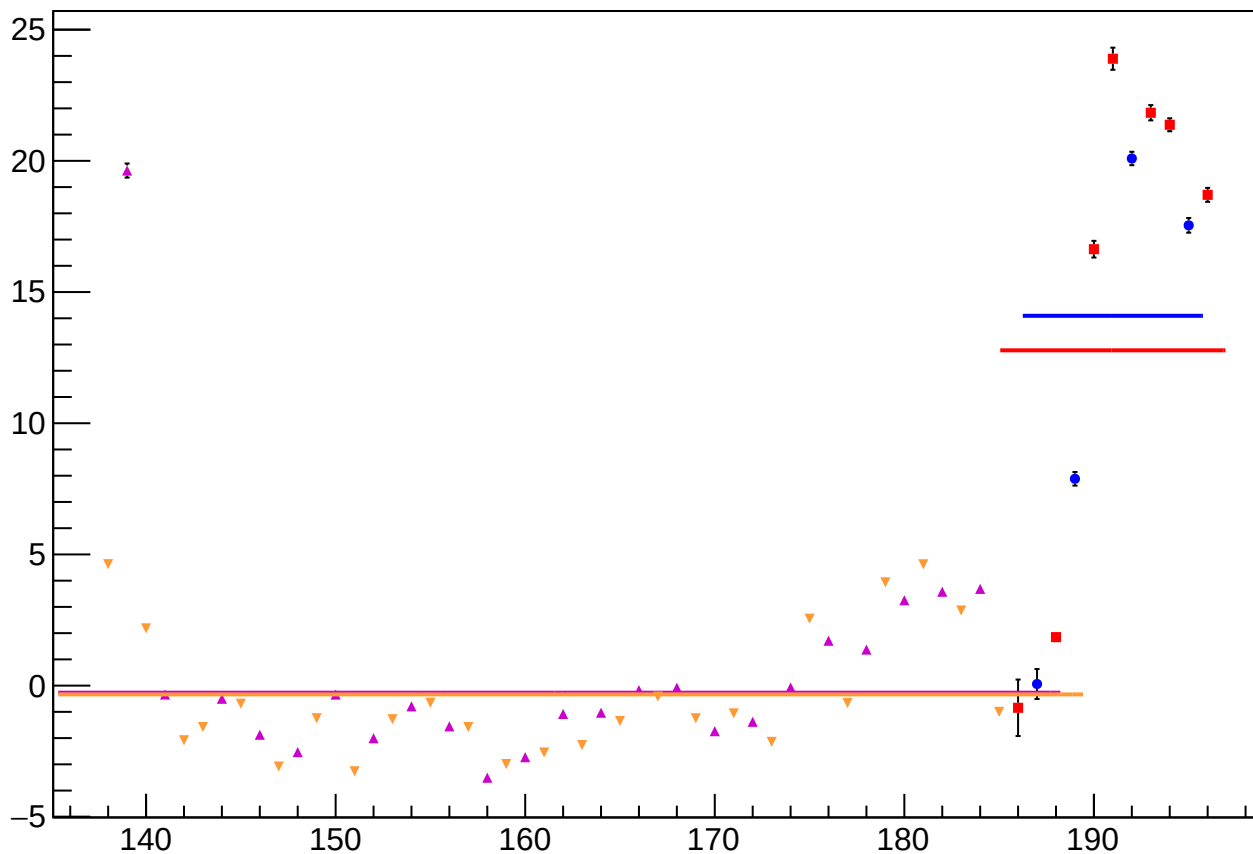


Right In: -0.700+/-0.130 χ^2/NDF : 234.0/3
 Left Out: -2.149+/-0.026 χ^2/NDF : 24536.3/24
 Right Out: 0.089+/-0.082 χ^2/NDF : 964.1/6
 Left In: -2.078+/-0.026 χ^2/NDF : 23245.8/22

Left: -2.114+/-0.018 χ^2/NDF : 47785.8/47
 Right: -0.135+/-0.069 χ^2/NDF : 1224.5/10
 In: -2.025+/-0.026 χ^2/NDF : 23587.6/26
 Out: -1.949+/-0.024 χ^2/NDF : 26181.5/31

All: -1.985+/-0.018 χ^2/NDF : 49773.8/58

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.095+/-0.147 χ^2/NDF : 1880.8/3

Left Out: -0.335+/-0.021 χ^2/NDF : 12596.1/24

Right Out: 12.779+/-0.102 χ^2/NDF : 8258.3/6

Left In: -0.269+/-0.021 χ^2/NDF : 13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

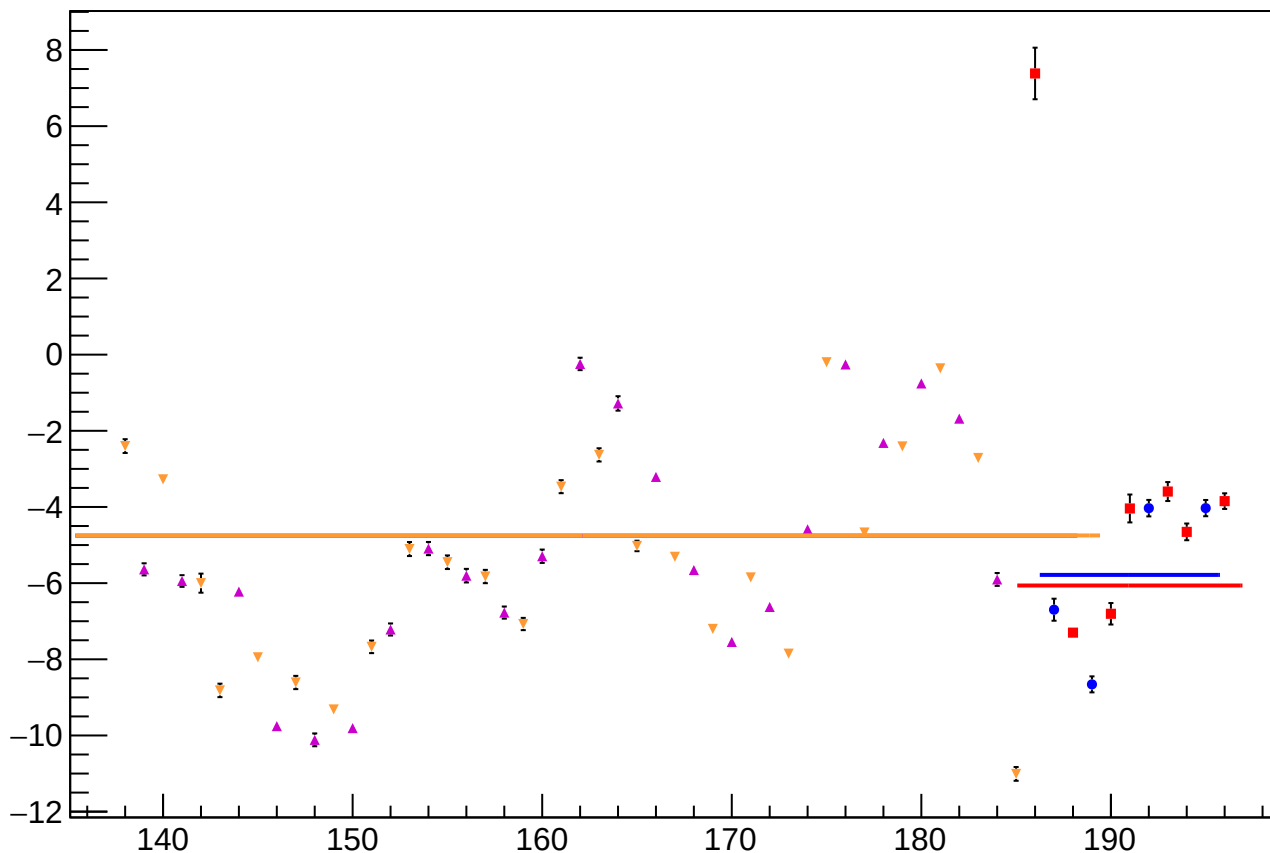
Right: 13.202+/-0.084 χ^2/NDF : 10193.1/10

In: 0.015+/-0.021 χ^2/NDF : 24503.2/26

Out: 0.182+/-0.020 χ^2/NDF : 36875.2/31

All: 0.101+/-0.014 χ^2/NDF : 61412.0/58

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

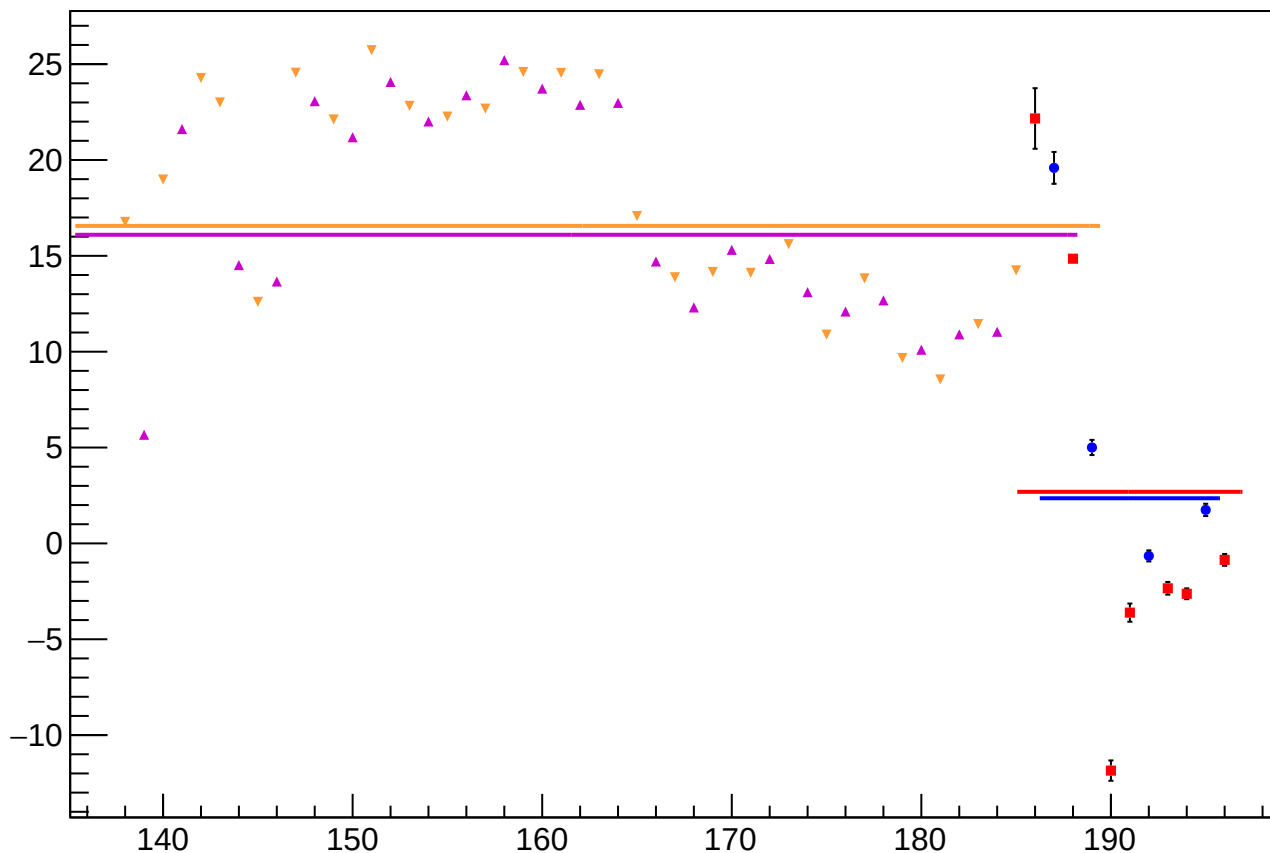


Right In: -5.784 ± 0.113 $\chi^2/\text{NDF}: 330.0/3$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -6.062 ± 0.069 $\chi^2/\text{NDF}: 881.0/6$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.987 ± 0.059 $\chi^2/\text{NDF}: 1215.4/10$
 In: -4.805 ± 0.025 $\chi^2/\text{NDF}: 14527.7/26$
 Out: -4.909 ± 0.024 $\chi^2/\text{NDF}: 14488.0/31$

All: -4.860 ± 0.018 $\chi^2/\text{NDF}: 29024.4/58$

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.354 ± 0.184 $\chi^2/\text{NDF}: 586.7/3$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 2.691 ± 0.130 $\chi^2/\text{NDF}: 4500.3/6$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

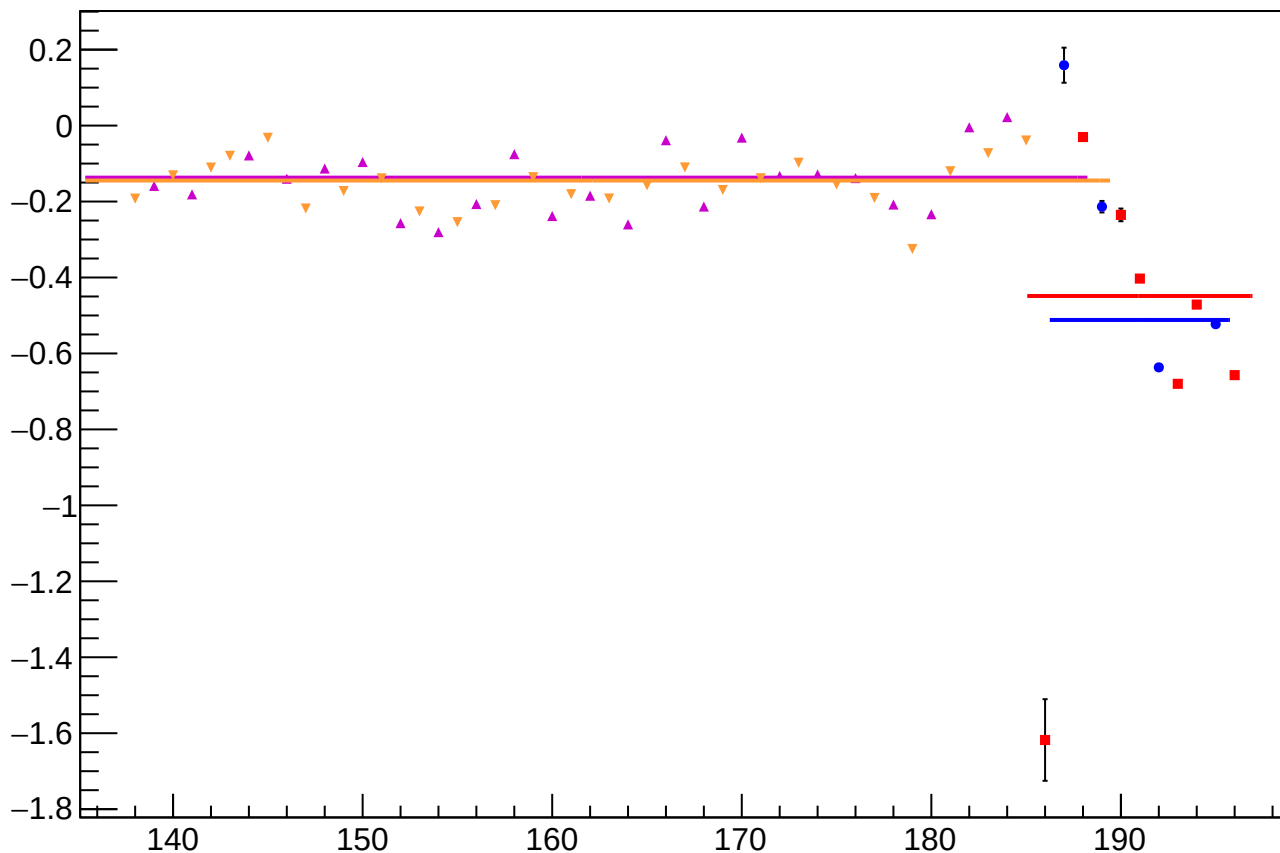
Right: 2.579 ± 0.106 $\chi^2/\text{NDF}: 5089.1/10$

In: 15.877 ± 0.023 $\chi^2/\text{NDF}: 48411.1/26$

Out: 16.138 ± 0.023 $\chi^2/\text{NDF}: 69354.7/31$

All: 16.011 ± 0.016 $\chi^2/\text{NDF}: 117829.7/58$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.512 ± 0.006 χ^2/NDF : 788.0/3

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.449 ± 0.004 χ^2/NDF : 2894.8/6

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

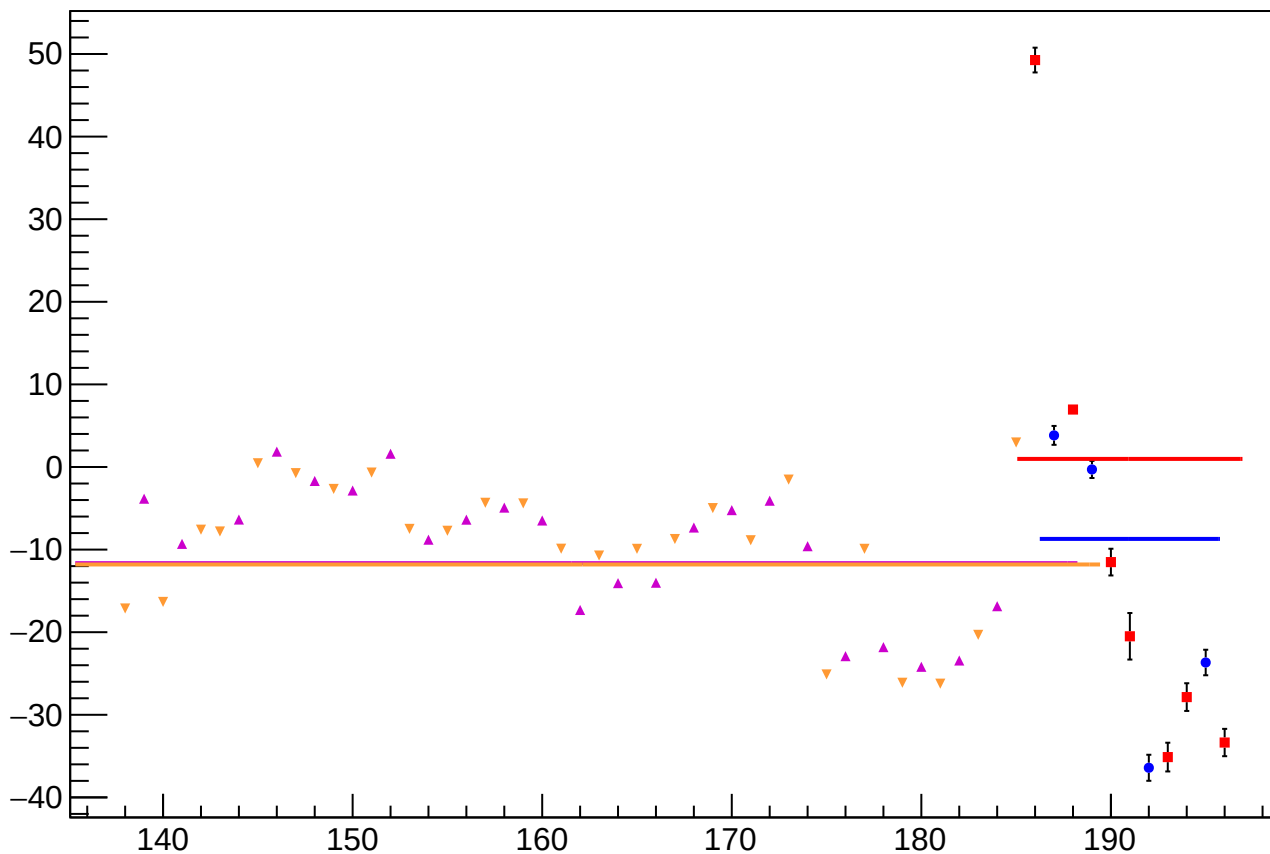
Right: -0.470 ± 0.003 χ^2/NDF : 3756.0/10

In: -0.149 ± 0.001 χ^2/NDF : 9969.4/26

Out: -0.162 ± 0.001 χ^2/NDF : 11370.8/31

All: -0.155 ± 0.001 χ^2/NDF : 21420.4/58

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.706 ± 0.630 χ^2/NDF : 589.0/3

Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24

Right Out: 0.979 ± 0.427 χ^2/NDF : 2435.3/6

Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

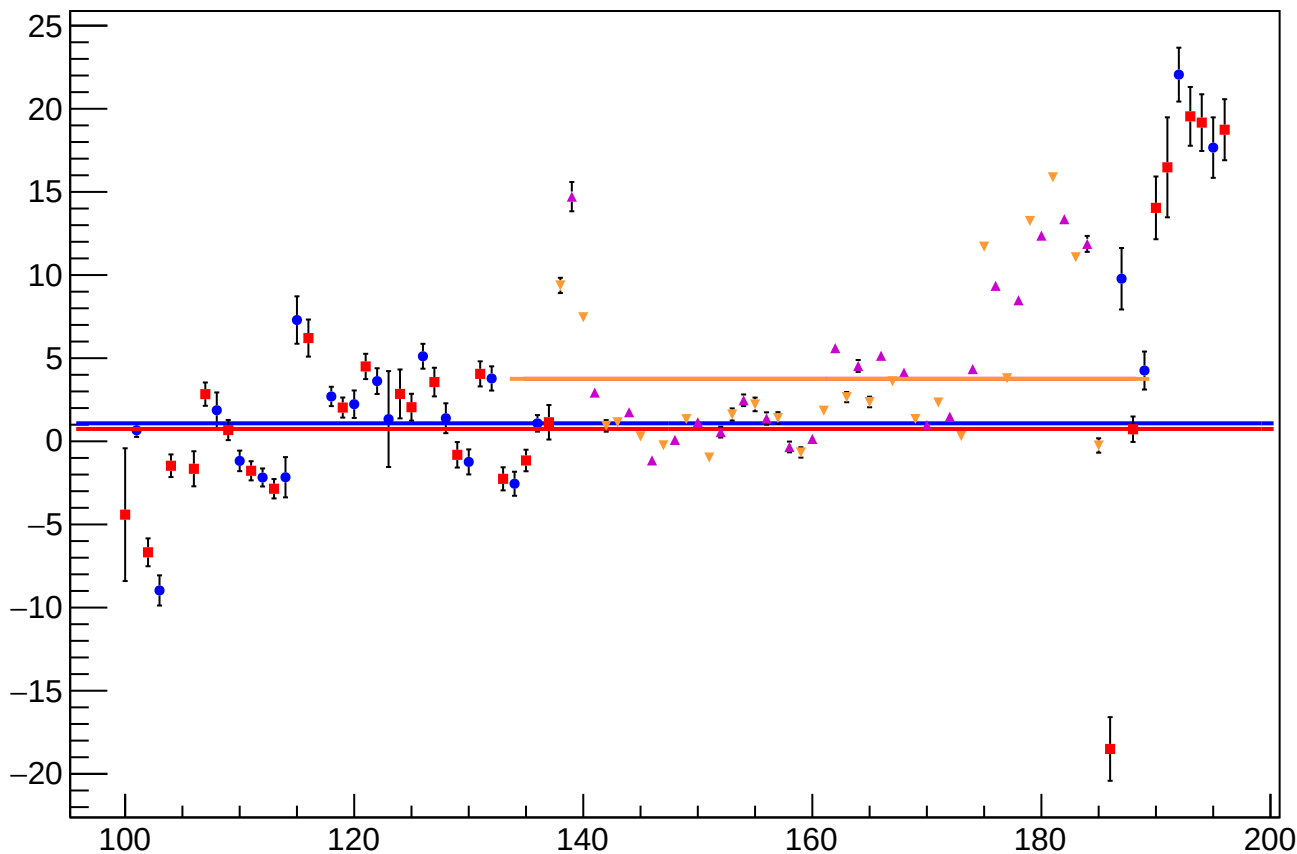
Right: -2.072 ± 0.354 χ^2/NDF : 3186.0/10

In: -11.604 ± 0.071 χ^2/NDF : 14731.7/26

Out: -11.465 ± 0.069 χ^2/NDF : 20614.0/31

All: -11.533 ± 0.050 χ^2/NDF : 35347.7/58

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.083 ± 0.166 χ^2/NDF : 578.5/20

Left Out: 3.757 ± 0.056 χ^2/NDF : 7450.7/24

Right Out: 0.743 ± 0.167 χ^2/NDF : 785.2/25

Left In: 3.757 ± 0.057 χ^2/NDF : 5629.4/22

Left: 3.757 ± 0.040 χ^2/NDF : 13080.0/47

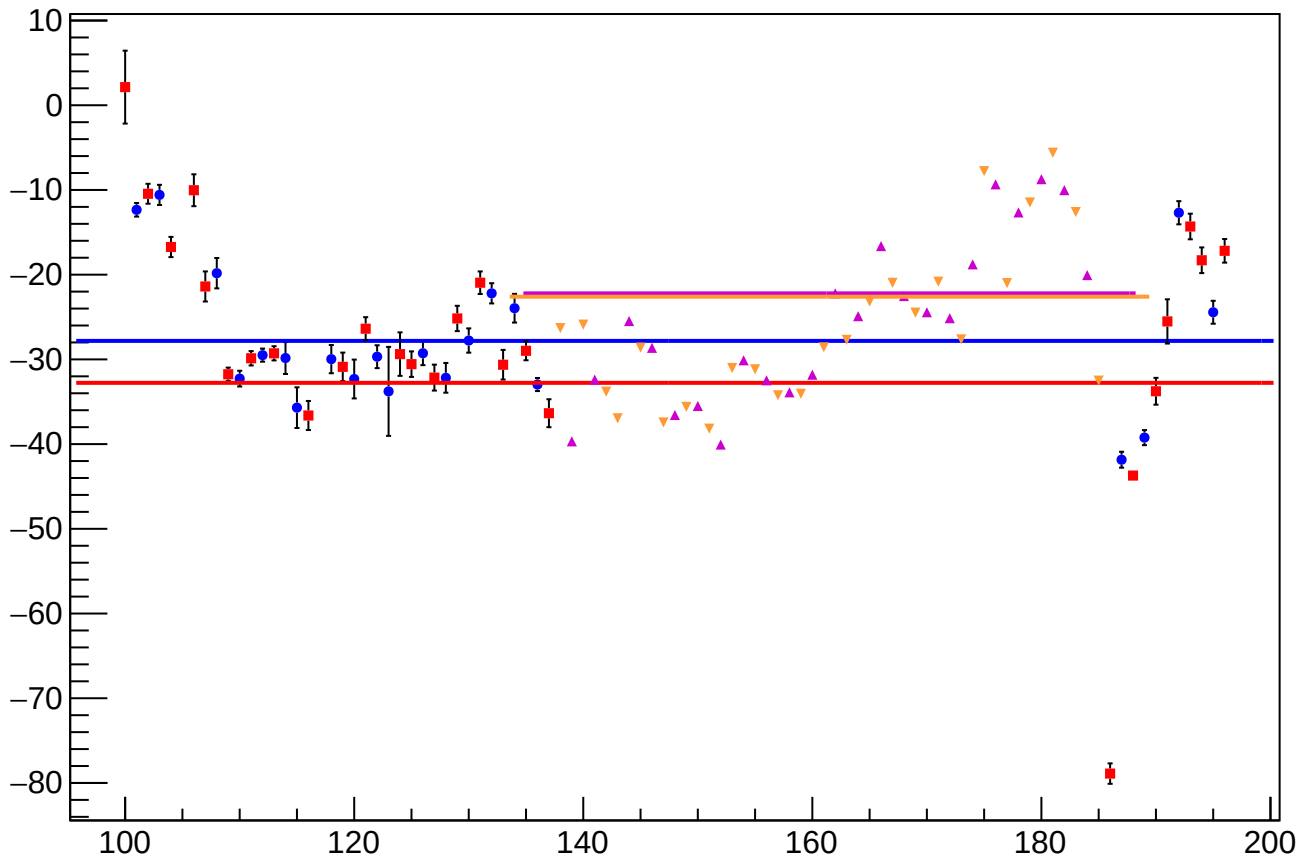
Right: 0.913 ± 0.118 χ^2/NDF : 1365.8/46

In: 3.479 ± 0.054 χ^2/NDF : 6439.6/43

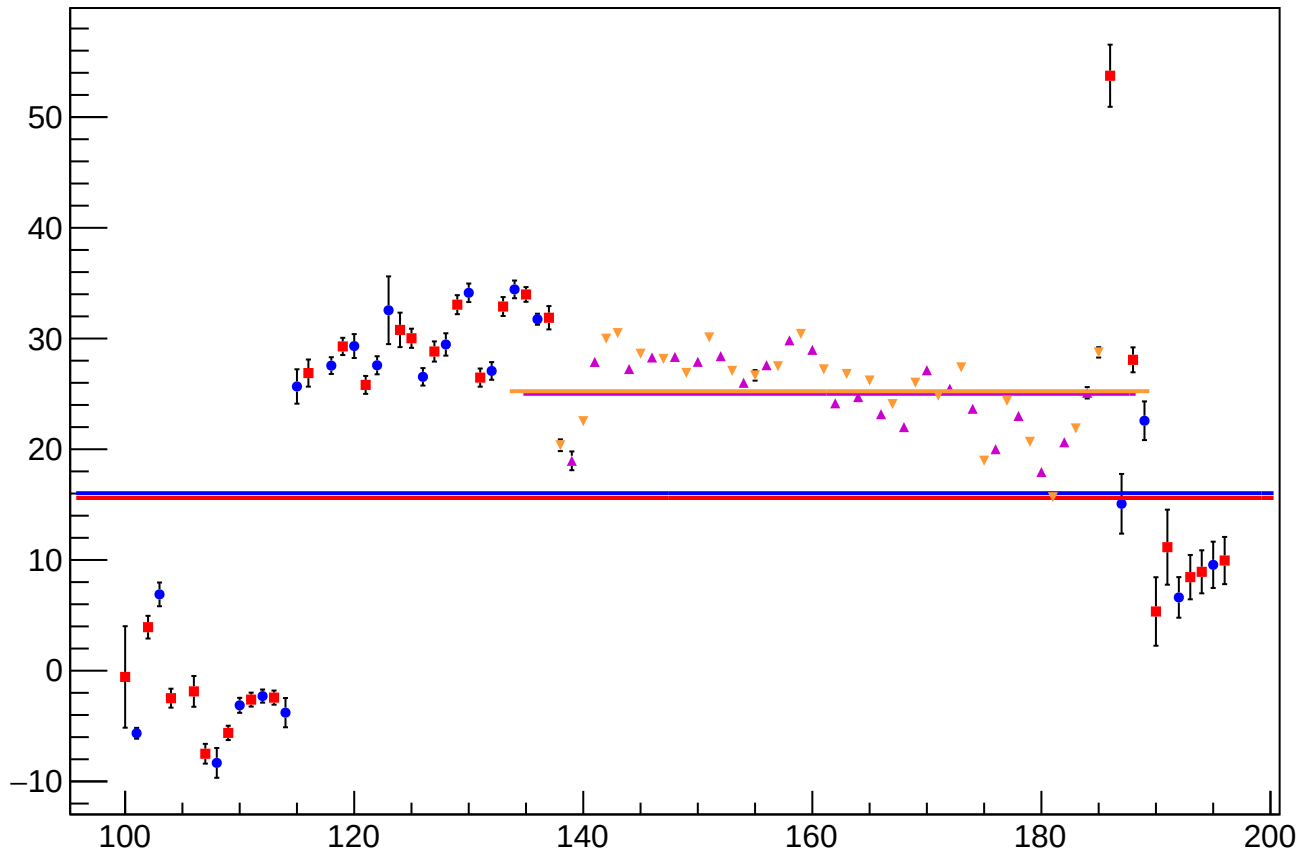
Out: 3.455 ± 0.053 χ^2/NDF : 8530.4/50

All: 3.467 ± 0.038 χ^2/NDF : 14970.1/94

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.031 $\pm$ 0.189 χ^2 /NDF: 7592.3/20

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF: 3786.5/24

Right Out: 15.597 $\pm$ 0.191 χ^2 /NDF: 7616.2/25

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

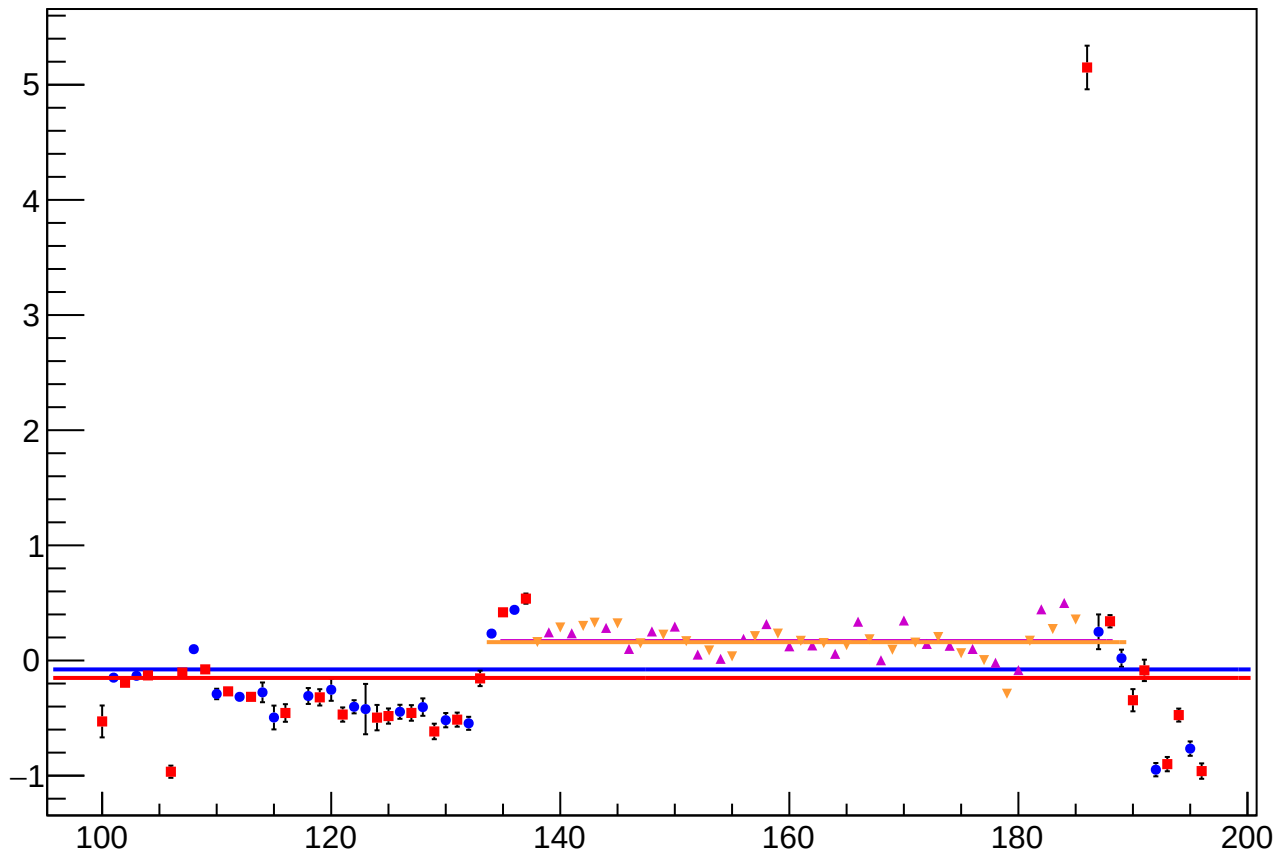
Right: 15.816 $\pm$ 0.134 χ^2 /NDF: 15211.2/46

In: 24.089 $\pm$ 0.060 χ^2 /NDF: 12340.3/43

Out: 24.303 $\pm$ 0.059 χ^2 /NDF: 13712.8/50

All: 24.198 $\pm$ 0.042 χ^2 /NDF: 26059.5/94

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.077 ± 0.010 χ^2/NDF : 1381.8/20

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.151 ± 0.010 χ^2/NDF : 2359.4/25

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

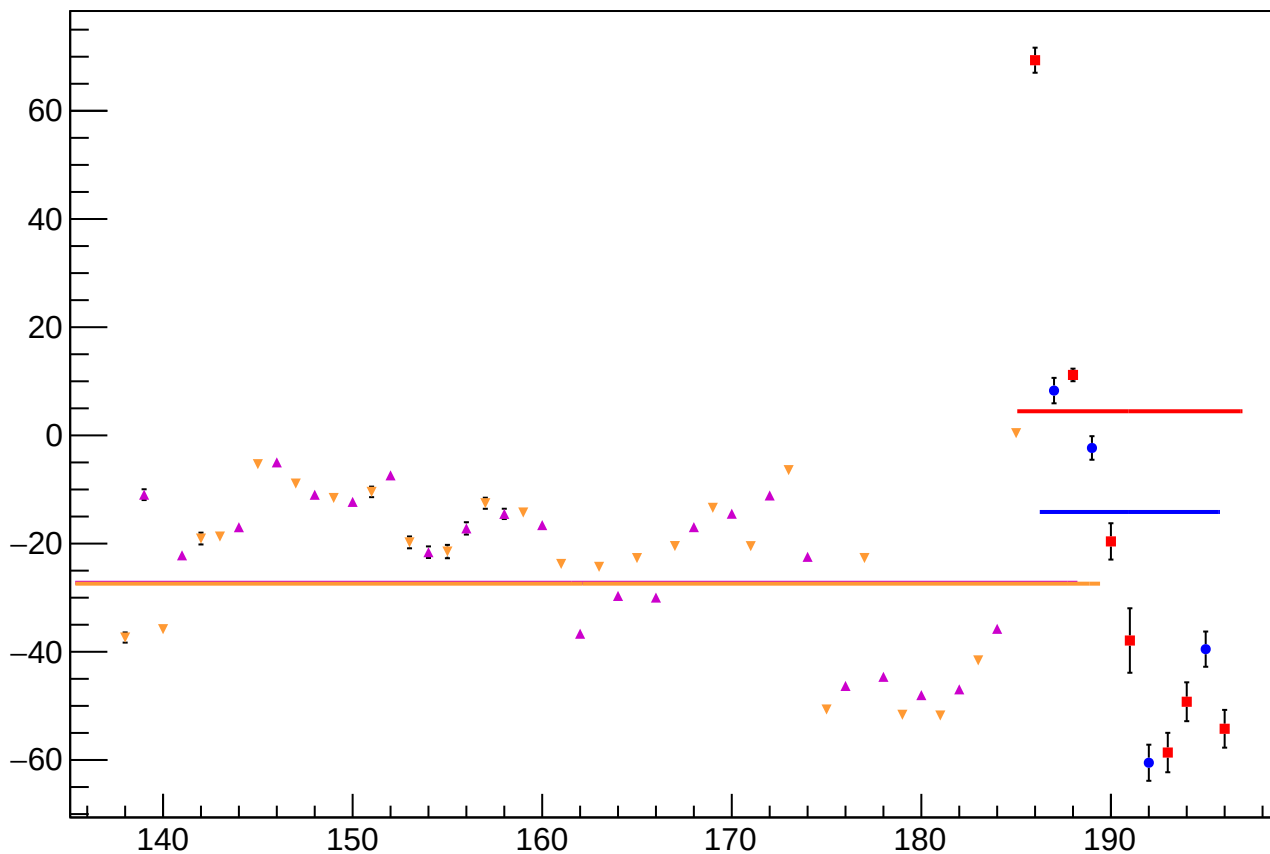
Right: -0.115 ± 0.007 χ^2/NDF : 3769.7/46

In: 0.149 ± 0.003 χ^2/NDF : 4366.3/43

Out: 0.134 ± 0.003 χ^2/NDF : 5170.8/50

All: 0.142 ± 0.002 χ^2/NDF : 9551.9/94

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.156 ± 1.318 $\chi^2/\text{NDF}: 374.3/3$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: 4.461 ± 0.884 $\chi^2/\text{NDF}: 1725.8/6$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$

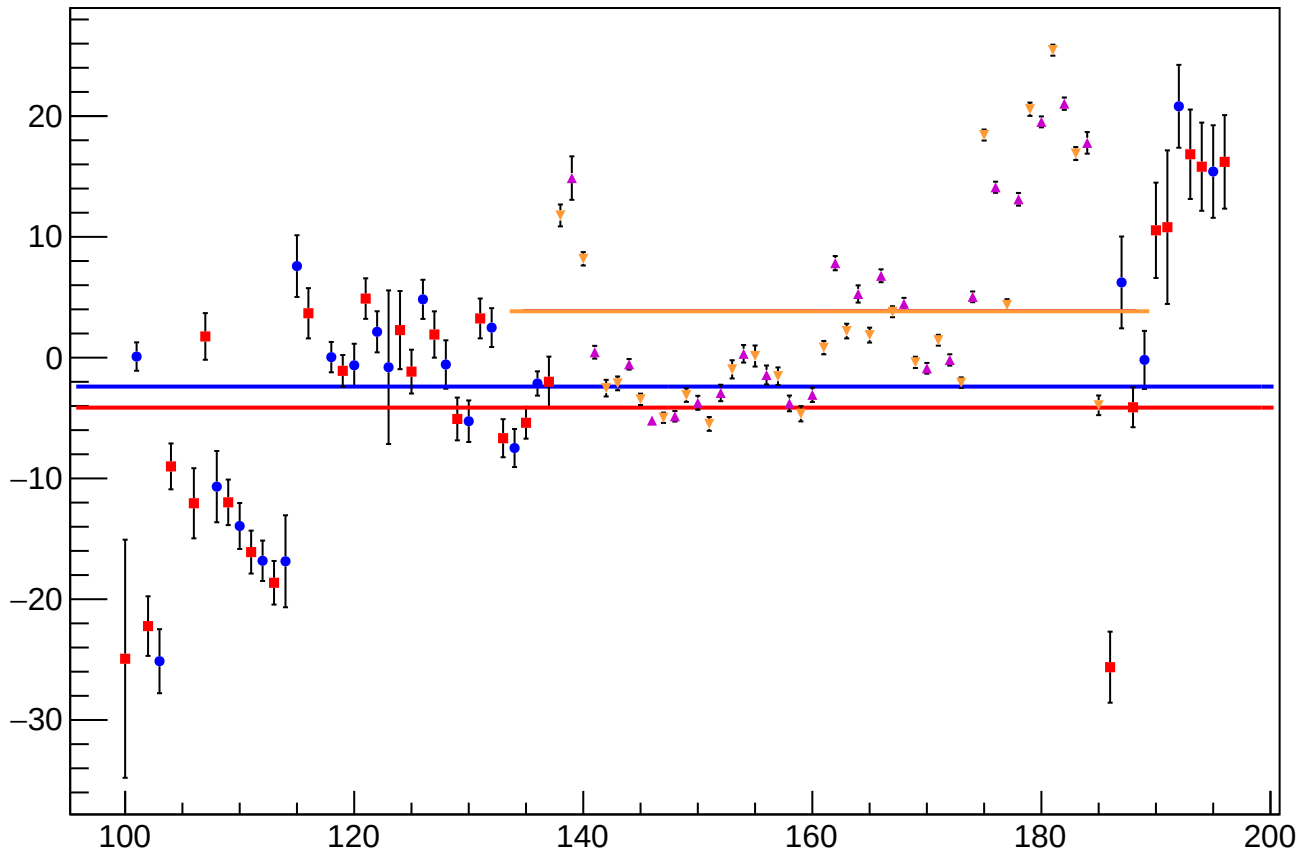
Right: -1.316 ± 0.734 $\chi^2/\text{NDF}: 2237.7/10$

In: -27.098 ± 0.139 $\chi^2/\text{NDF}: 11777.0/26$

Out: -26.662 ± 0.135 $\chi^2/\text{NDF}: 17845.7/31$

All: -26.875 ± 0.097 $\chi^2/\text{NDF}: 29627.8/58$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.395 ± 0.398 $\chi^2/\text{NDF}: 355.1/20$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -4.138 ± 0.399 $\chi^2/\text{NDF}: 461.0/25$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

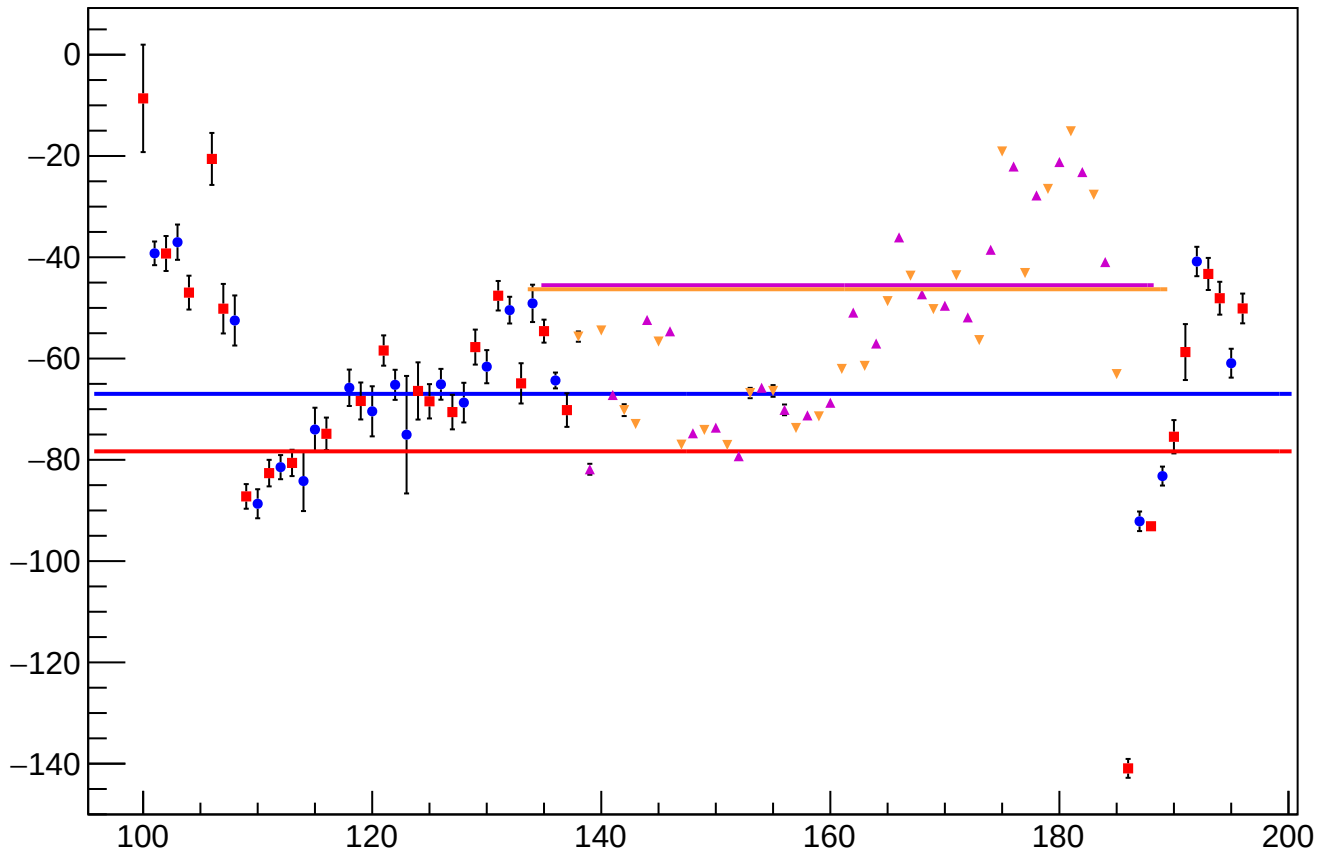
Right: -3.264 ± 0.282 $\chi^2/\text{NDF}: 825.7/46$

In: 3.414 ± 0.107 $\chi^2/\text{NDF}: 6008.2/43$

Out: 3.286 ± 0.105 $\chi^2/\text{NDF}: 7771.5/50$

All: 3.349 ± 0.075 $\chi^2/\text{NDF}: 13780.4/94$

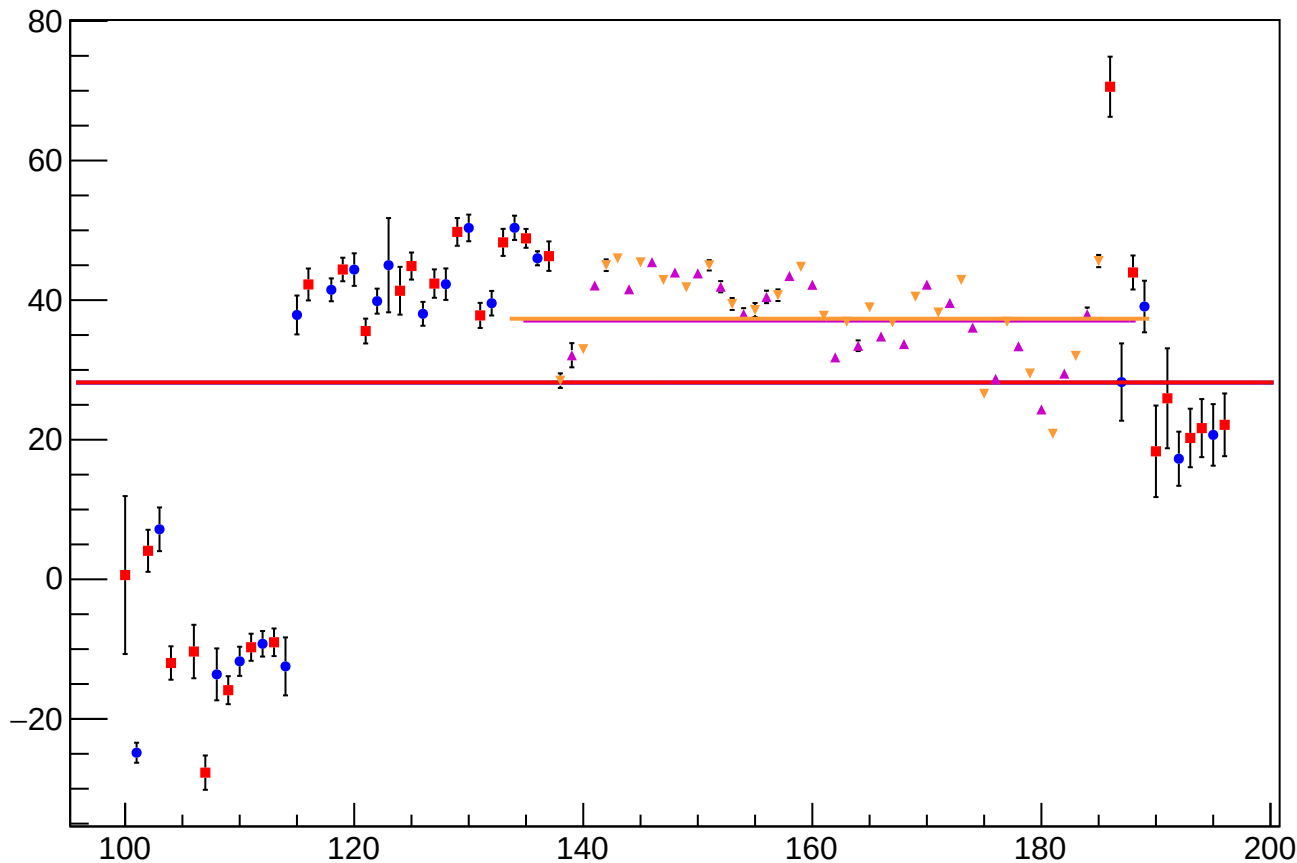
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.973 ± 0.619 χ^2/NDF : 729.6/20
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -78.325 ± 0.525 χ^2/NDF : 2473.7/25
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -73.572 ± 0.400 χ^2/NDF : 3399.0/46
 In: -46.563 ± 0.136 χ^2/NDF : 19398.9/43
 Out: -48.384 ± 0.133 χ^2/NDF : 26084.1/50
 All: -47.493 ± 0.095 χ^2/NDF : 45574.1/94

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.182 $\pm$ 0.450 χ^2 /NDF: 3330.4/20

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.211 $\pm$ 0.458 χ^2 /NDF: 3183.1/25

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

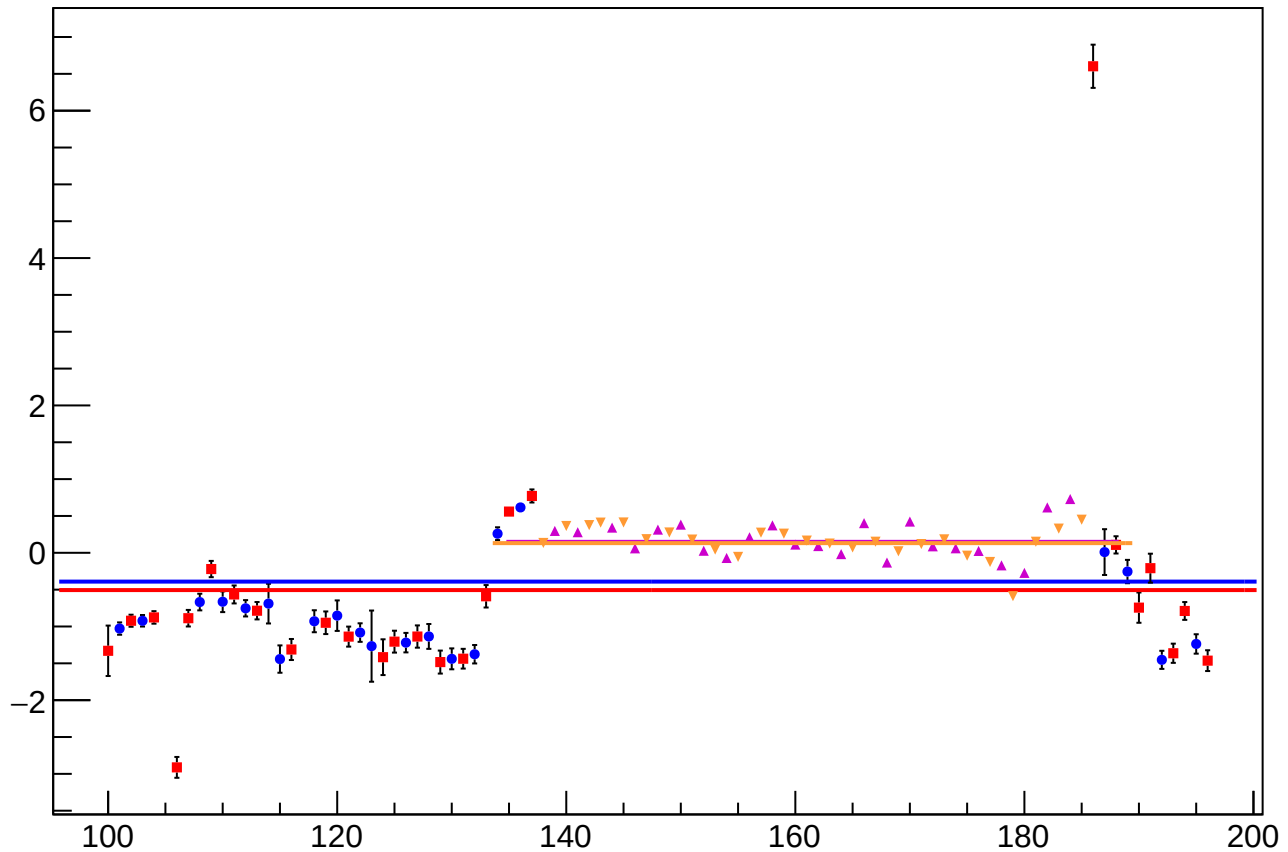
Right: 28.196 $\pm$ 0.321 χ^2 /NDF: 6513.5/46

In: 36.436 $\pm$ 0.121 χ^2 /NDF:6089.7/43

Out: 36.726 $\pm$ 0.119 χ^2 /NDF:6703.4/50

All: 36.583 $\pm$ 0.085 χ^2 /NDF: 12796.1/94

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.391 ± 0.024 χ^2/NDF : 1136.1/20

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.506 ± 0.023 χ^2/NDF : 1873.1/25

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

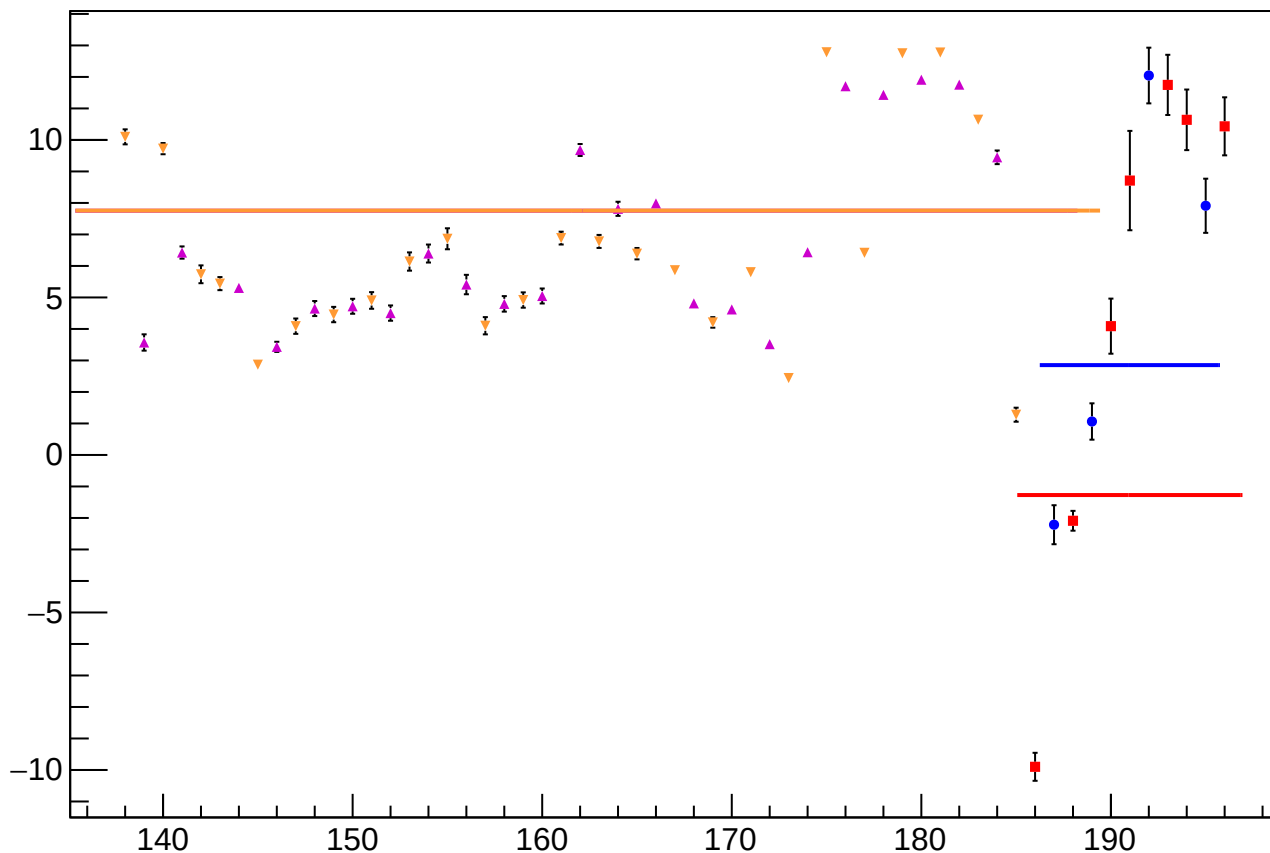
Right: -0.449 ± 0.017 χ^2/NDF : 3021.1/46

In: 0.119 ± 0.006 χ^2/NDF : 3428.5/43

Out: 0.097 ± 0.005 χ^2/NDF : 3996.6/50

All: 0.108 ± 0.004 χ^2/NDF : 7433.3/94

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.852 ± 0.348 χ^2/NDF : 219.4/3

Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24

Right Out: -1.272 ± 0.222 χ^2/NDF : 962.1/6

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

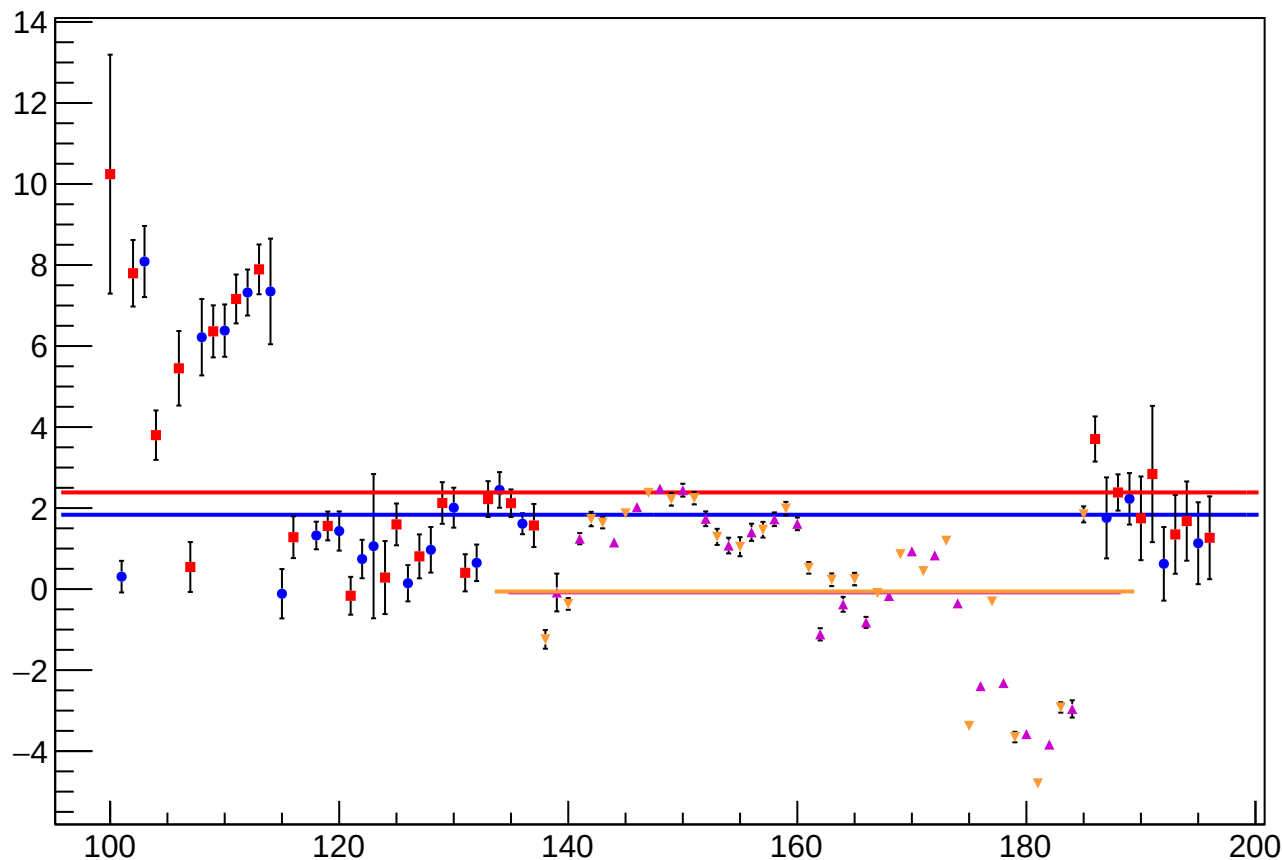
Right: -0.078 ± 0.187 χ^2/NDF : 1281.1/10

In: 7.703 ± 0.035 χ^2/NDF : 8760.7/26

Out: 7.547 ± 0.034 χ^2/NDF : 14302.2/31

All: 7.623 ± 0.024 χ^2/NDF : 23073.2/58

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.835 ± 0.113 $\chi^2/\text{NDF}: 295.9/20$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.386 ± 0.113 $\chi^2/\text{NDF}: 344.5/25$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

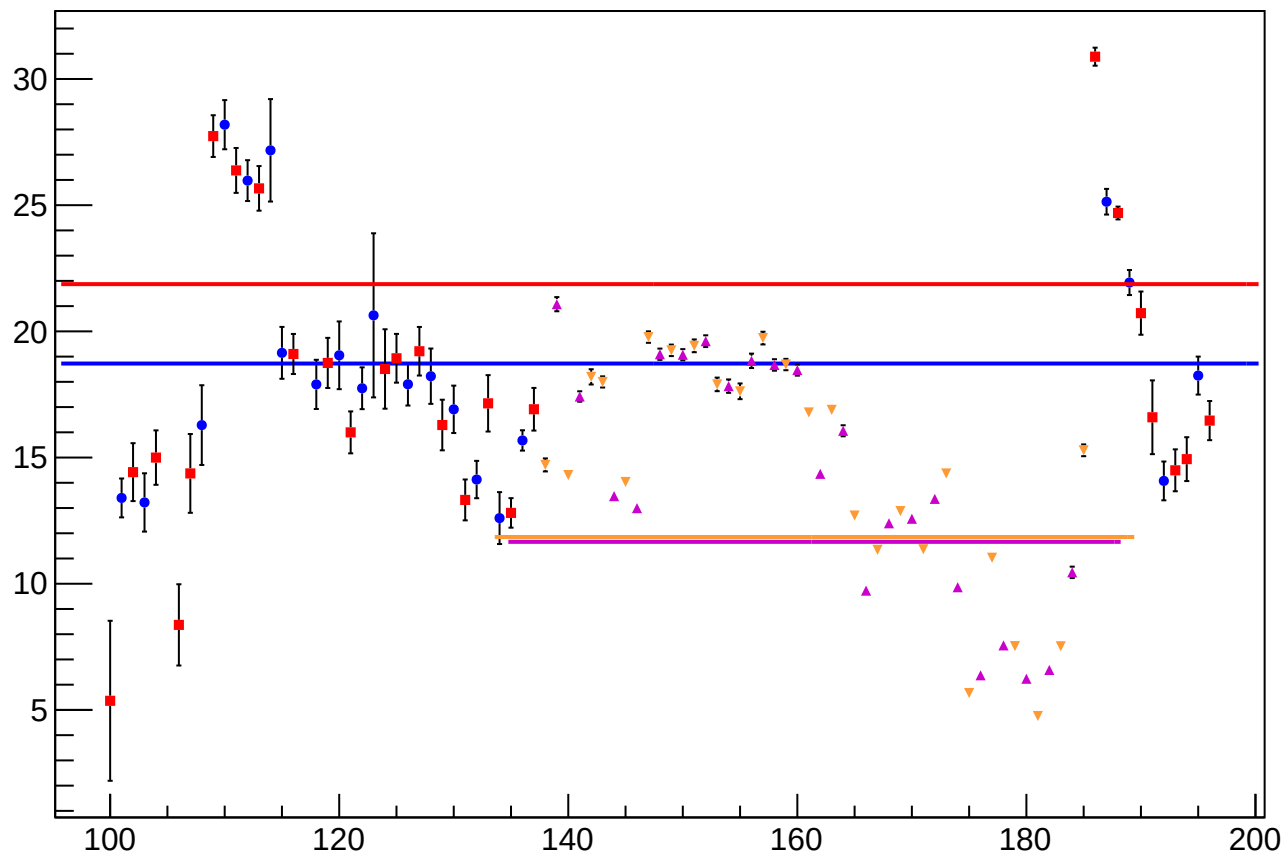
Right: 2.111 ± 0.080 $\chi^2/\text{NDF}: 652.3/46$

In: 0.032 ± 0.027 $\chi^2/\text{NDF}: 5545.8/43$

Out: 0.081 ± 0.027 $\chi^2/\text{NDF}: 6858.2/50$

All: 0.057 ± 0.019 $\chi^2/\text{NDF}: 12405.6/94$

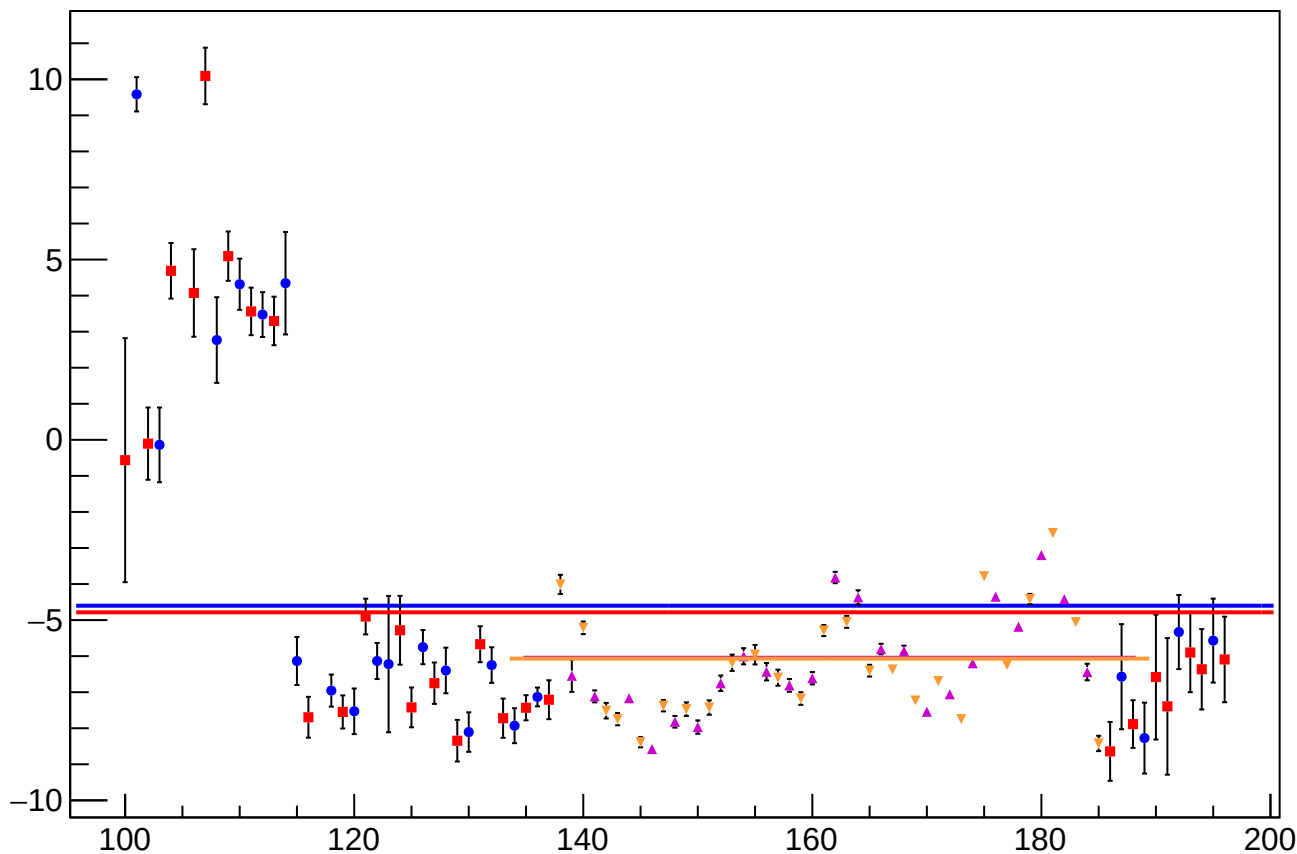
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.725 ± 0.173 χ^2/NDF : 641.3/20
 Left Out: 11.853 ± 0.035 χ^2/NDF : 19149.4/24
 Right Out: 21.871 ± 0.141 χ^2/NDF : 1792.4/25
 Left In: 11.660 ± 0.035 χ^2/NDF : 16710.2/22

Left: 11.758 ± 0.025 χ^2/NDF : 35874.9/47
 Right: 20.616 ± 0.109 χ^2/NDF : 2632.7/46
 In: 11.941 ± 0.034 χ^2/NDF : 18955.0/43
 Out: 12.425 ± 0.034 χ^2/NDF : 25711.3/50
 All: 12.189 ± 0.024 χ^2/NDF : 44767.3/94

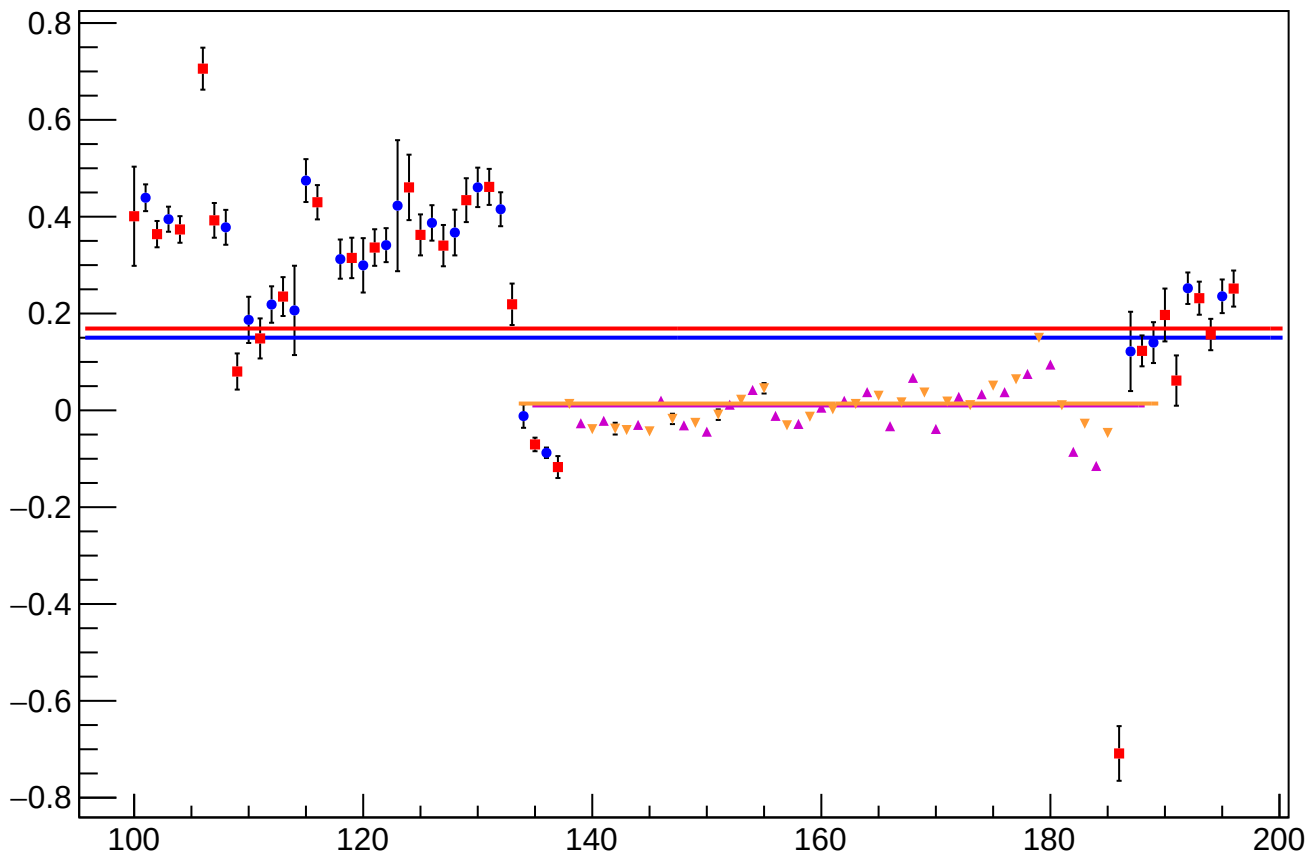
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.601 ± 0.127 χ^2/NDF : 1600.4/20
 Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24
 Right Out: -4.785 ± 0.129 χ^2/NDF : 1397.7/25
 Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47
 Right: -4.691 ± 0.091 χ^2/NDF : 2999.2/46
 In: -5.960 ± 0.031 χ^2/NDF : 4015.5/43
 Out: -5.998 ± 0.030 χ^2/NDF : 4162.7/50
 All: -5.980 ± 0.022 χ^2/NDF : 8178.9/94

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.150 $\pm$ 0.007 χ^2 /NDF: 1075.0/20

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.169 $\pm$ 0.007 χ^2 /NDF: 1259.1/25

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

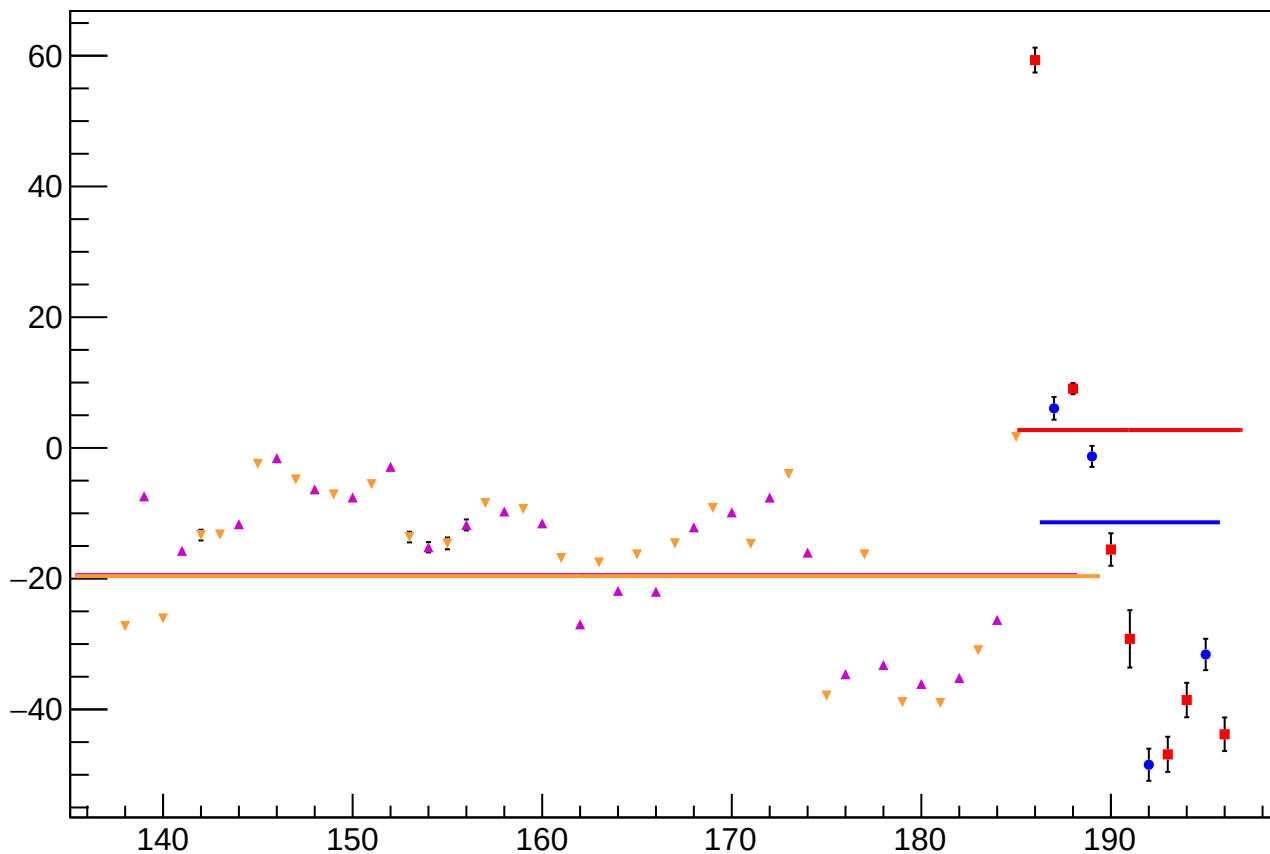
Right: 0.160 $\pm$ 0.005 χ^2 /NDF: 2338.2/46

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2711.6/43

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2736.8/50

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5453.5/94

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.377 ± 0.972 $\chi^2/\text{NDF}: 439.0/3$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: 2.739 ± 0.657 $\chi^2/\text{NDF}: 1963.4/6$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

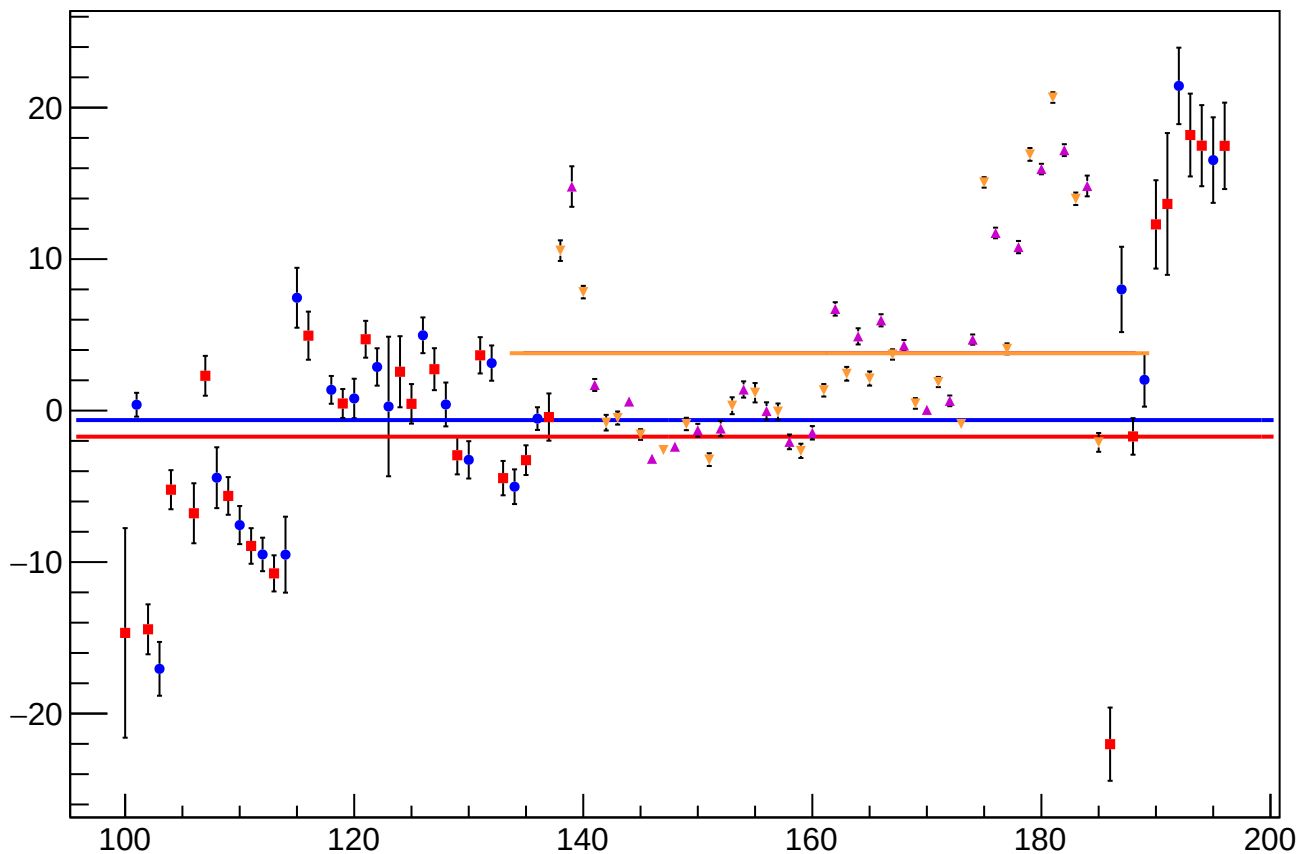
Right: -1.688 ± 0.545 $\chi^2/\text{NDF}: 2547.1/10$

In: -19.357 ± 0.104 $\chi^2/\text{NDF}: 12790.2/26$

Out: -19.074 ± 0.102 $\chi^2/\text{NDF}: 18853.3/31$

All: -19.212 ± 0.073 $\chi^2/\text{NDF}: 31647.3/58$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.627 ± 0.284 $\chi^2/\text{NDF}: 406.4/20$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: -1.721 ± 0.285 $\chi^2/\text{NDF}: 542.7/25$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

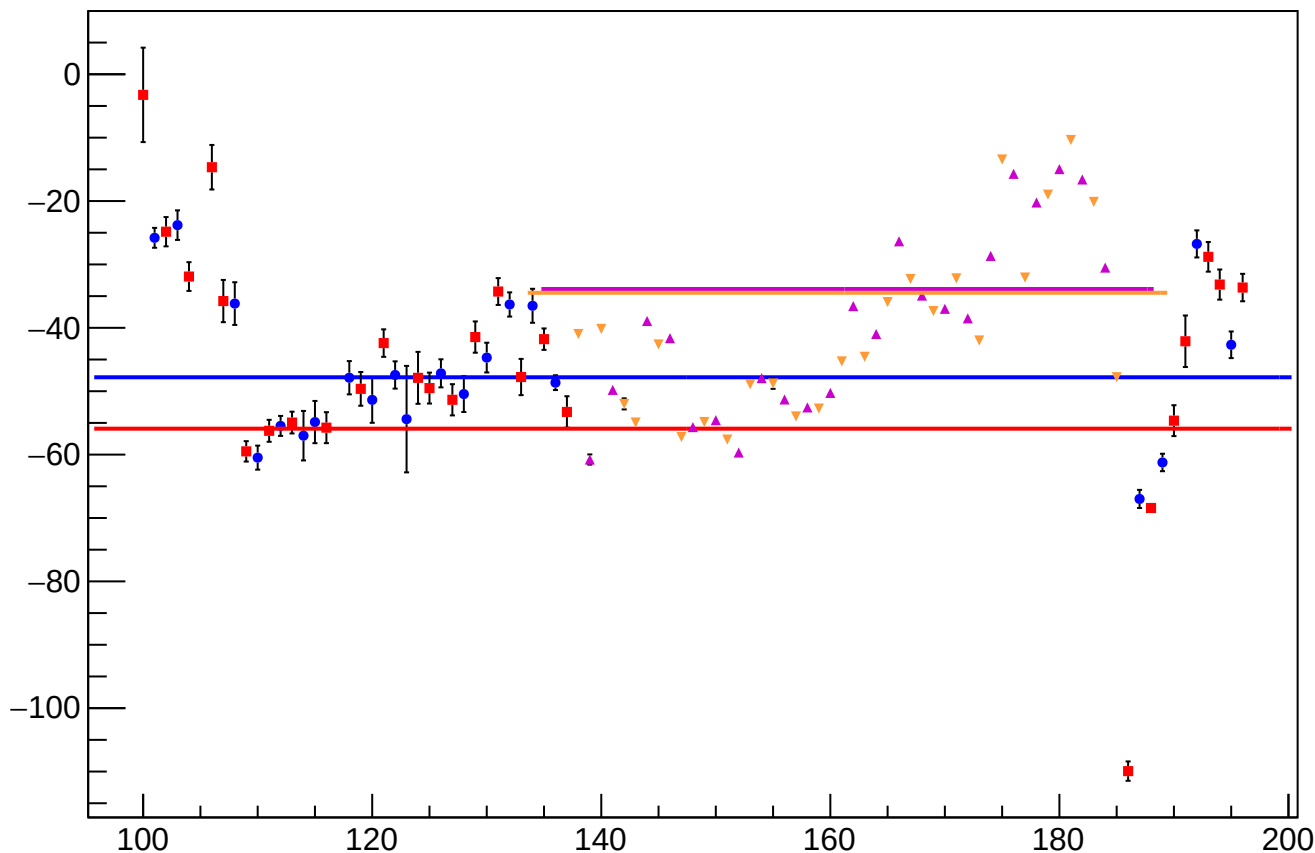
Right: -1.172 ± 0.201 $\chi^2/\text{NDF}: 956.5/46$

In: 3.446 ± 0.080 $\chi^2/\text{NDF}: 6146.7/43$

Out: 3.366 ± 0.079 $\chi^2/\text{NDF}: 8038.6/50$

All: 3.405 ± 0.056 $\chi^2/\text{NDF}: 14185.8/94$

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: -52.477 ± 0.288 $\chi^2/\text{NDF} = 3749.5/46$

In: -34.618 ± 0.102 $\chi^2/\text{NDF} = 19402.1/43$

Out: -35.965 ± 0.100 $\chi^2/\text{NDF} = 25887.4/50$

All: -35.306 ± 0.072 $\chi^2/\text{NDF} = 45377.8/94$

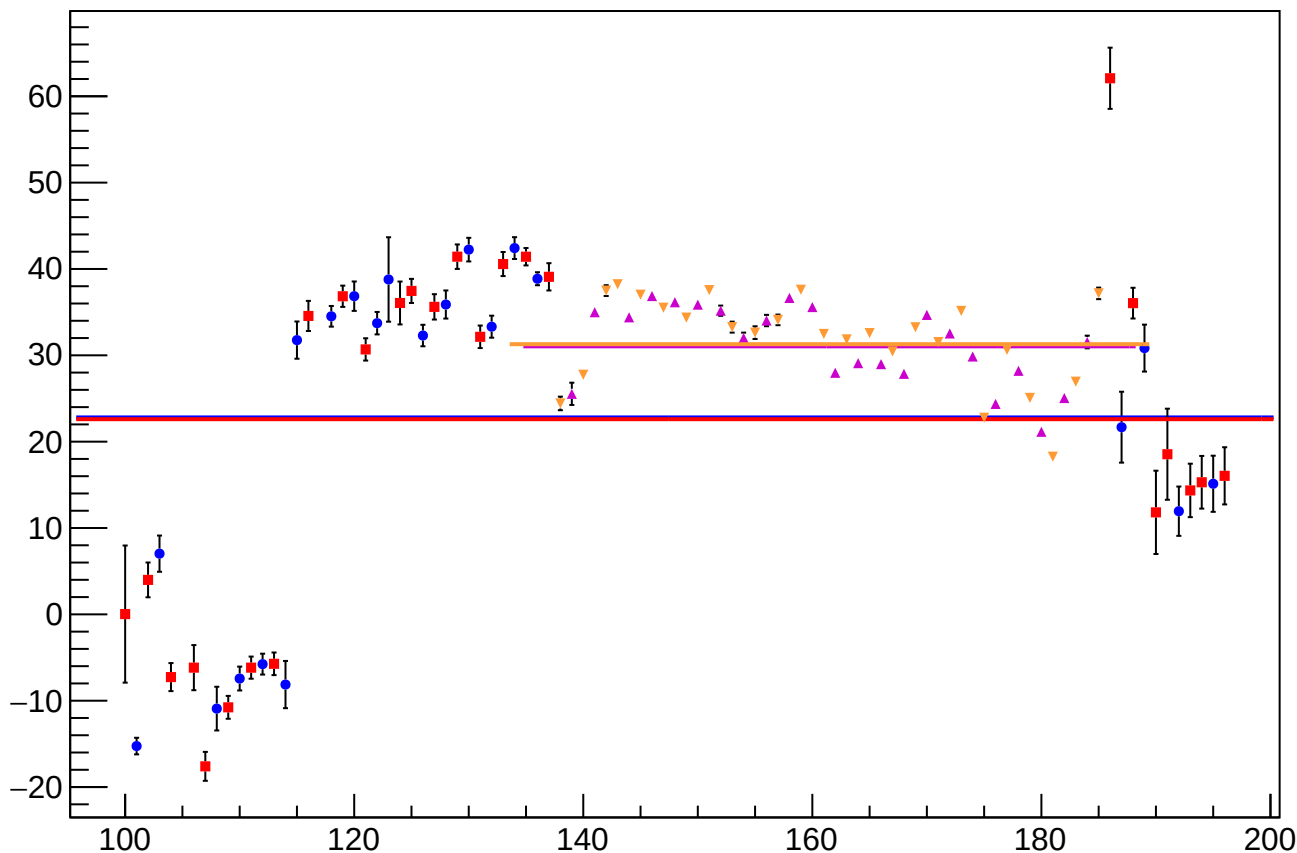
Right In: -47.801 ± 0.443 $\chi^2/\text{NDF} = 829.6/20$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF} = 20196.3/24$

Right Out: -55.908 ± 0.380 $\chi^2/\text{NDF} = 2727.0/25$

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: 22.805 $\pm$ 0.322 χ^2 /NDF: 4346.2/20

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.604 $\pm$ 0.326 χ^2 /NDF: 4235.9/25

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

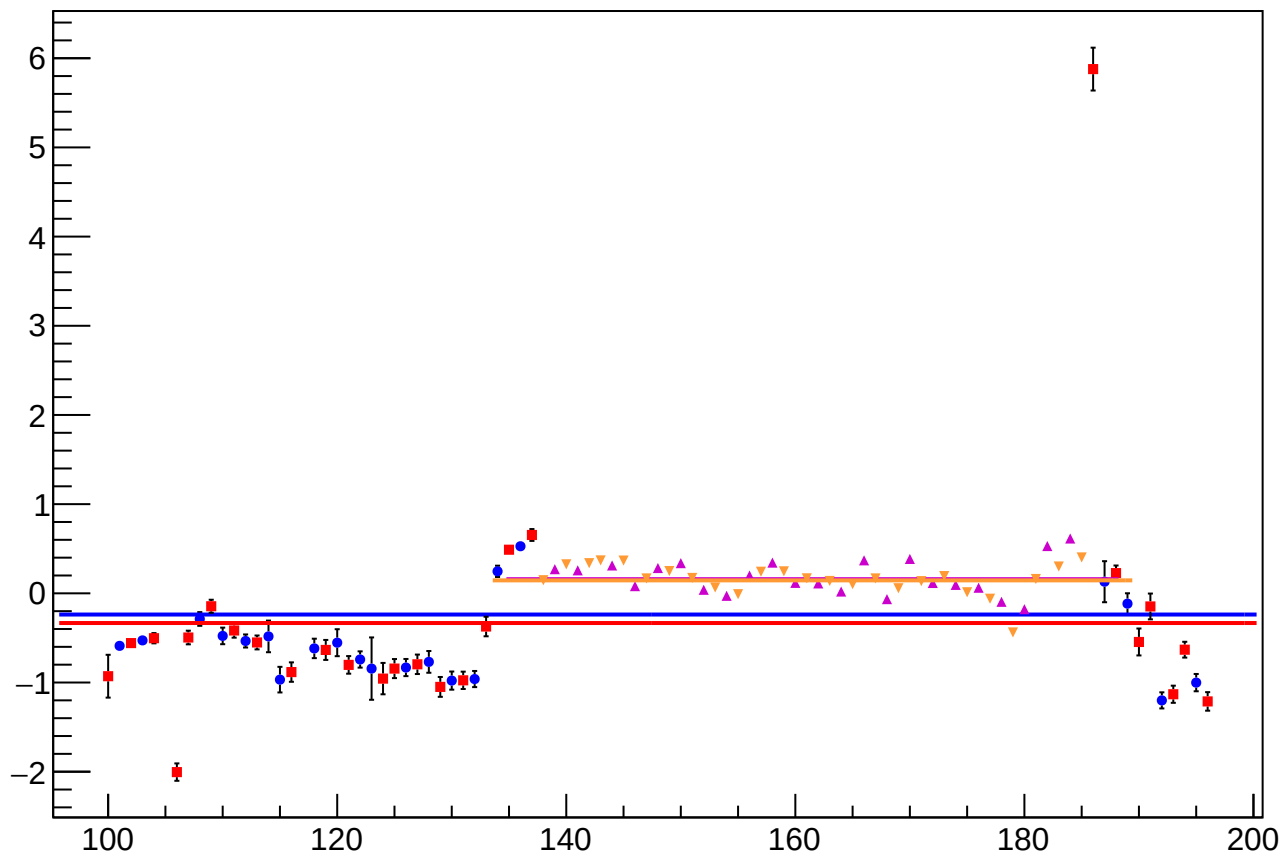
Right: 22.706 $\pm$ 0.229 χ^2 /NDF: 8582.2/46

In: 30.388 $\pm$ 0.090 χ^2 /NDF:7430.1/43

Out: 30.641 $\pm$ 0.089 χ^2 /NDF:8237.5/50

All: 30.517 $\pm$ 0.063 χ^2 /NDF: 15671.6/94

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.238 ± 0.017 χ^2/NDF : 1184.9/20

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.333 ± 0.017 χ^2/NDF : 2041.0/25

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

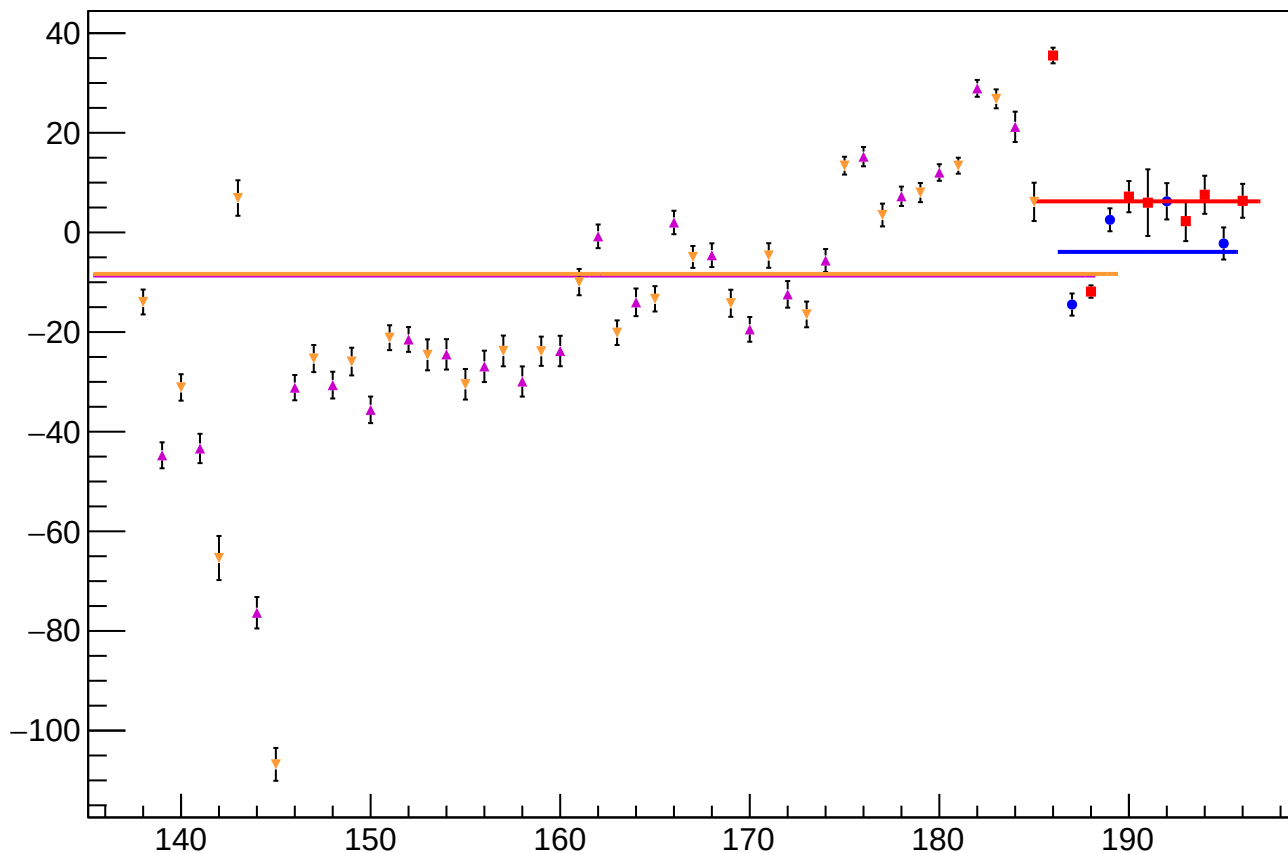
Right: -0.286 ± 0.012 χ^2/NDF : 3242.0/46

In: 0.135 ± 0.004 χ^2/NDF : 3709.4/43

Out: 0.116 ± 0.004 χ^2/NDF : 4392.0/50

All: 0.125 ± 0.003 χ^2/NDF : 8111.1/94

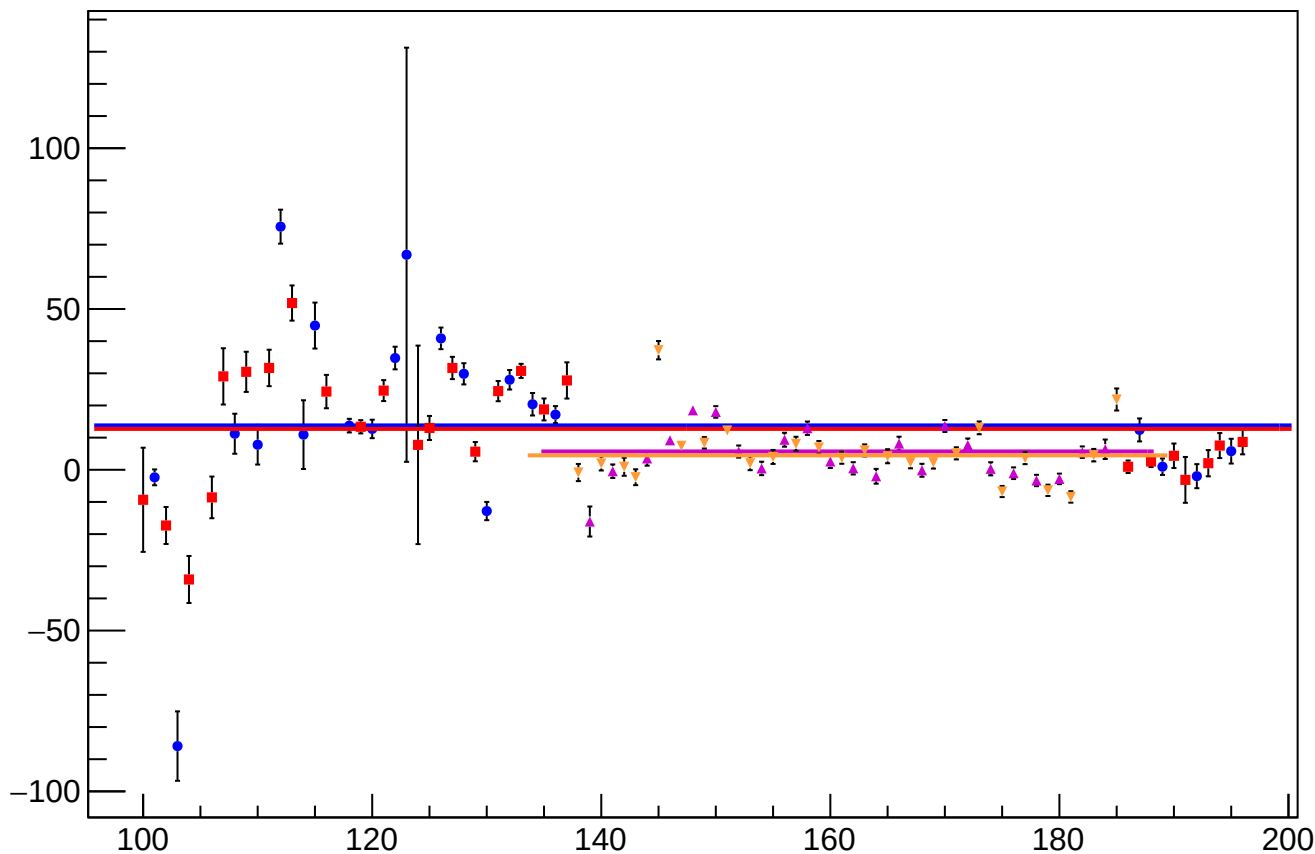
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.908 ± 1.332 χ^2/NDF : 38.6/3
 Left Out: -8.332 ± 0.500 χ^2/NDF : 2226.2/24
 Right Out: 6.237 ± 0.846 χ^2/NDF : 562.1/6
 Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47
 Right: 3.322 ± 0.714 χ^2/NDF : 642.0/10
 In: -8.051 ± 0.474 χ^2/NDF : 2273.5/26
 Out: -4.565 ± 0.430 χ^2/NDF : 3008.3/31
 All: -6.139 ± 0.319 χ^2/NDF : 5311.4/58

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.799 $\pm$ 0.762 χ^2 /NDF: 572.6/20

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 12.710 $\pm$ 0.687 χ^2 /NDF: 391.3/25

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

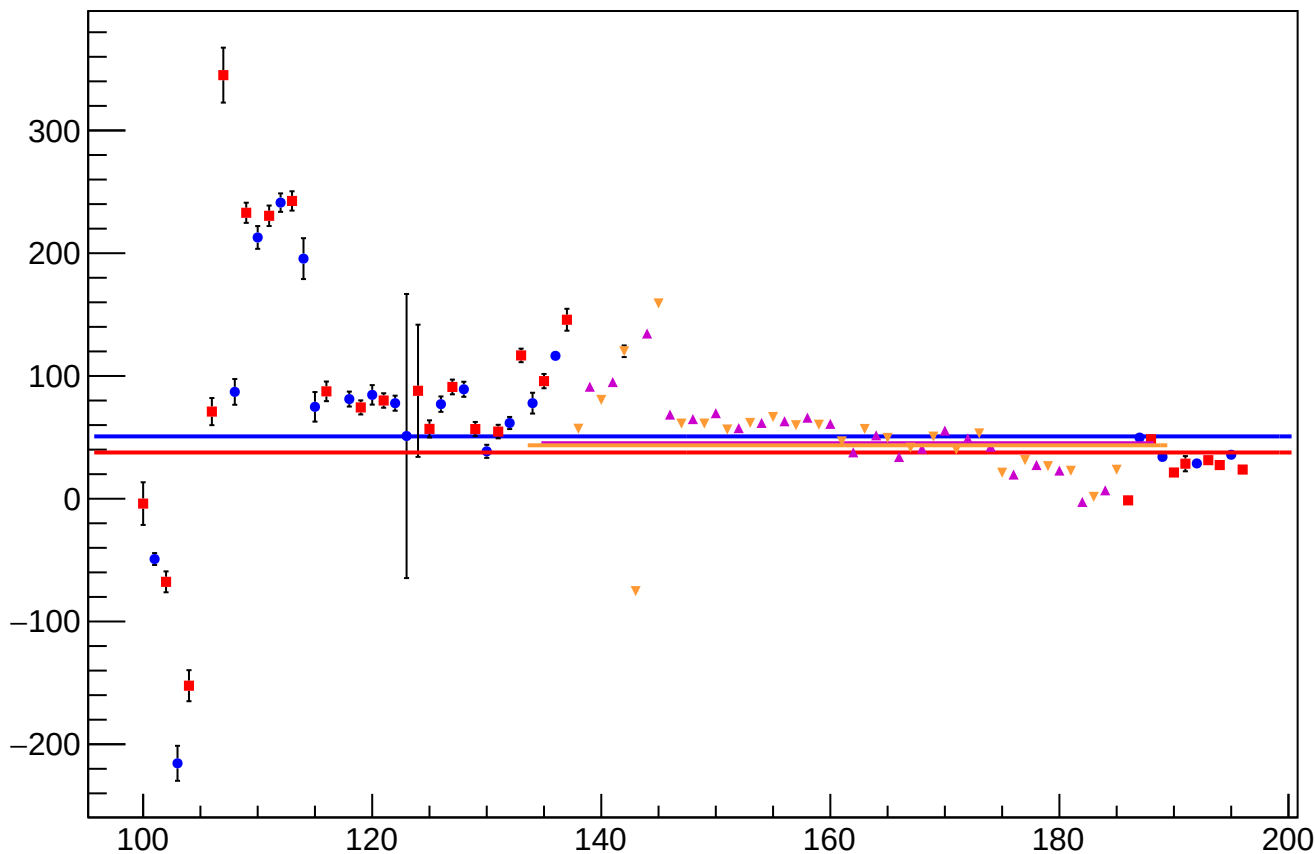
Right: 13.198 $\pm$ 0.510 χ^2 /NDF: 965.0/46

In: 7.482 $\pm$ 0.357 χ^2 /NDF: 984.7/43

Out: 6.507 $\pm$ 0.340 χ^2 /NDF: 871.4/50

All: 6.972 $\pm$ 0.246 χ^2 /NDF: 1860.0/94

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 50.779+/-0.928 χ^2/NDF : 2358.0/20

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 37.670+/-0.645 χ^2/NDF : 4195.1/25

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

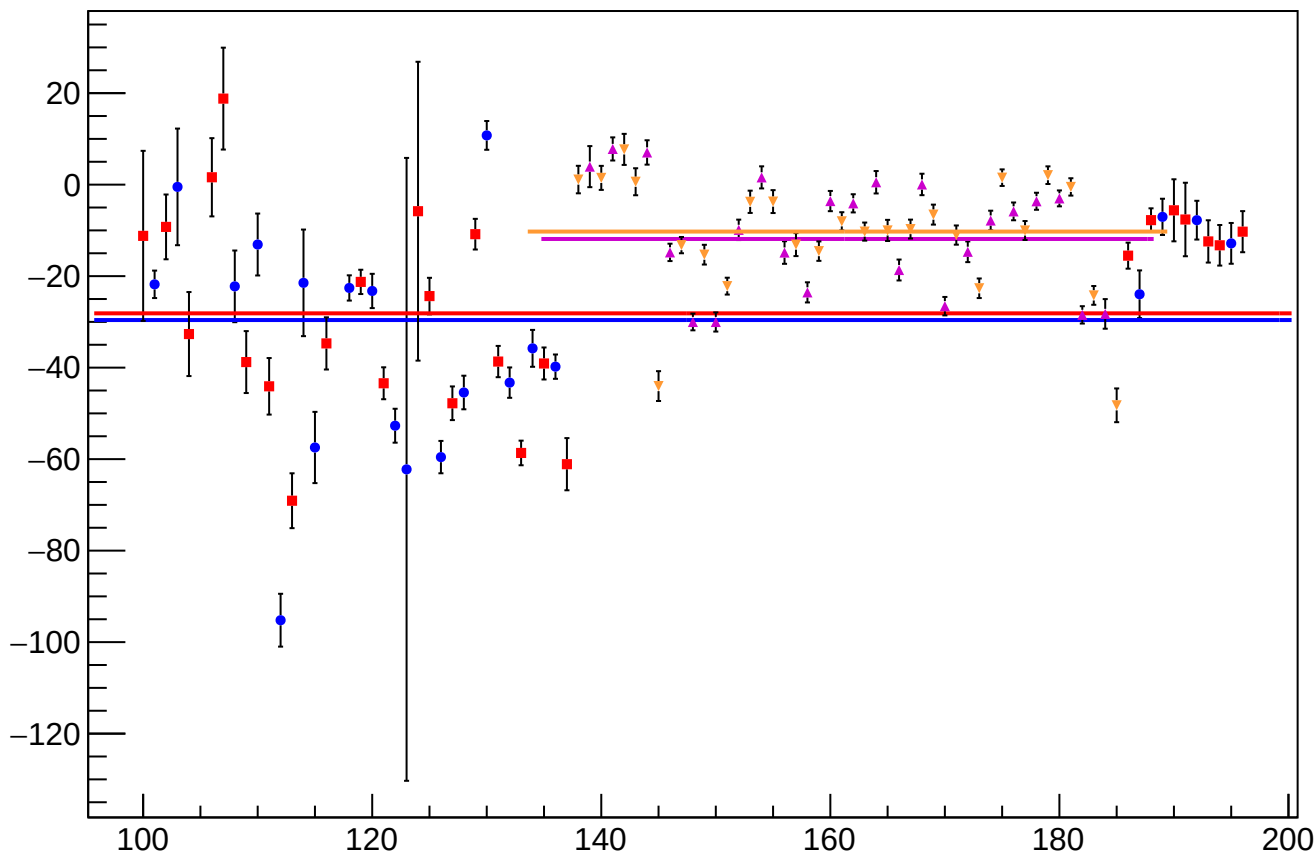
Right: 41.945+/-0.530 χ^2/NDF : 6687.6/46

In: 46.481+/-0.443 χ^2/NDF : 5434.3/43

Out: 41.338+/-0.394 χ^2/NDF : 8077.4/50

All: 43.612+/-0.295 χ^2/NDF : 13586.8/94

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.597 ± 0.898 $\chi^2/\text{NDF}: 573.0/20$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -28.132 ± 0.843 $\chi^2/\text{NDF}: 497.1/25$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

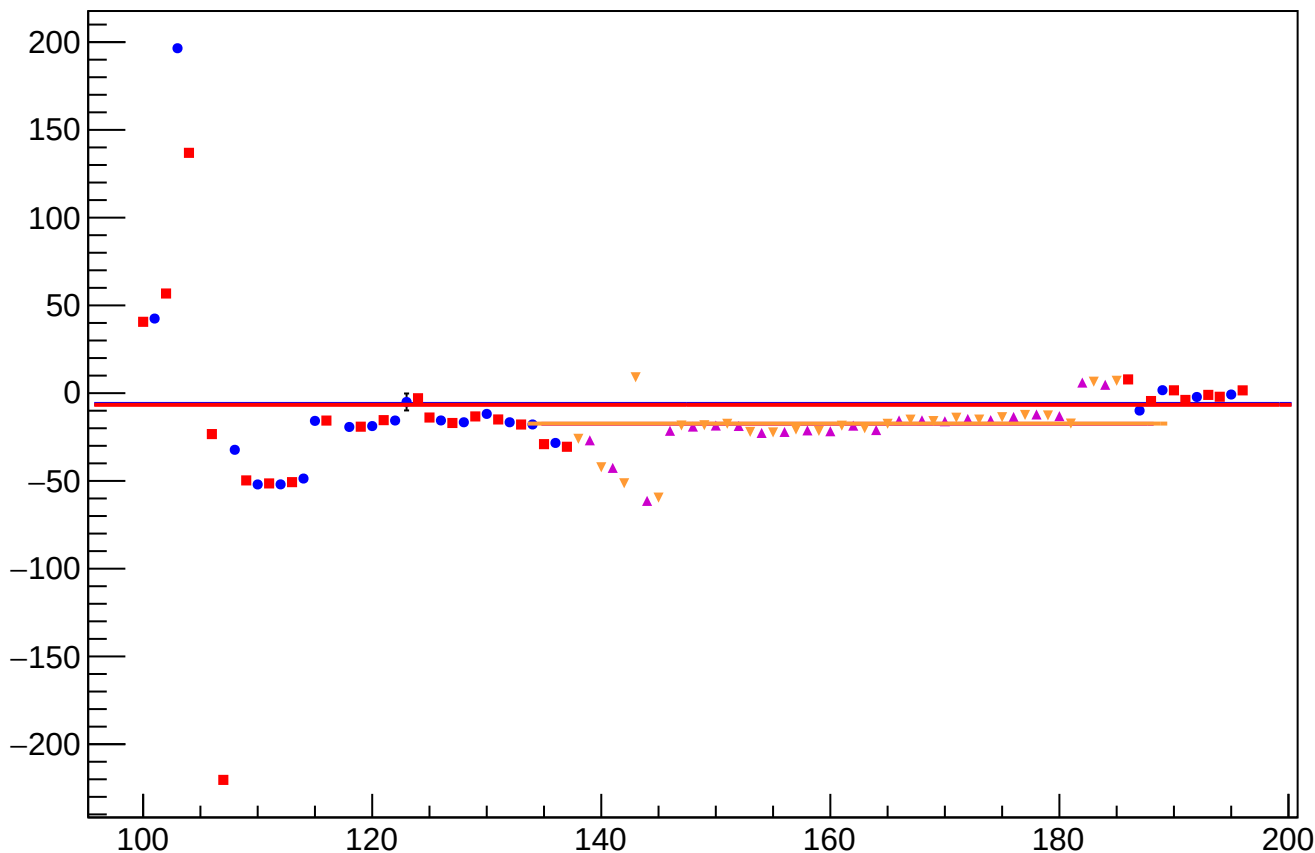
Right: -28.818 ± 0.615 $\chi^2/\text{NDF}: 1071.5/46$

In: -15.510 ± 0.407 $\chi^2/\text{NDF}: 1548.8/43$

Out: -14.143 ± 0.393 $\chi^2/\text{NDF}: 1401.5/50$

All: -14.803 ± 0.283 $\chi^2/\text{NDF}: 2956.1/94$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.139+/-0.048 χ^2/NDF : 581826.5/20

Left Out: -17.333+/-0.020 χ^2/NDF : 325197.2/24

Right Out: -6.642+/-0.043 χ^2/NDF : 582270.7/25

Left In: -17.491+/-0.021 χ^2/NDF : 259215.8/22

Left: -17.411+/-0.015 χ^2/NDF : 584442.6/47

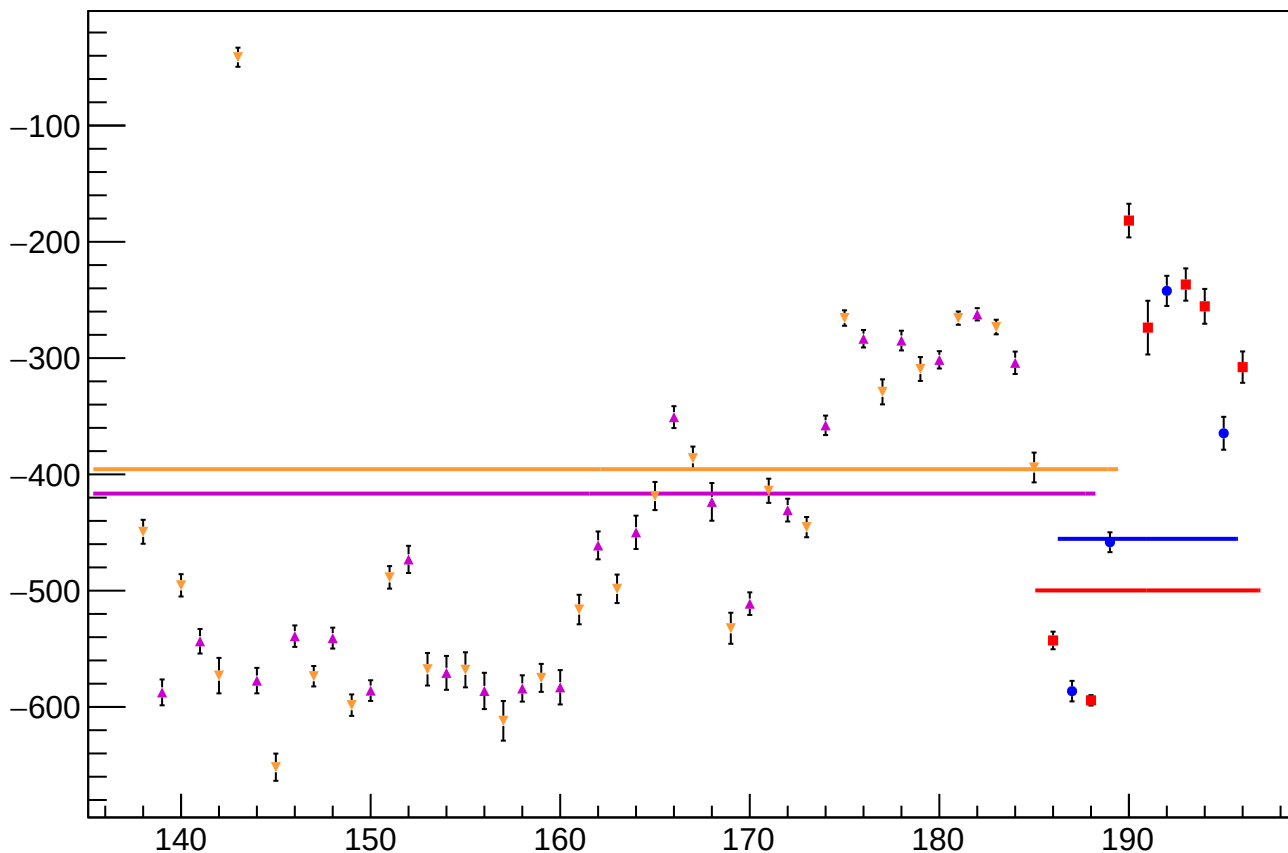
Right: -6.418+/-0.032 χ^2/NDF : 1164158.6/46

In: -15.698+/-0.019 χ^2/NDF : 888660.5/43

Out: -15.357+/-0.018 χ^2/NDF : 958210.4/50

All: -15.523+/-0.013 χ^2/NDF : 1847036.5/94

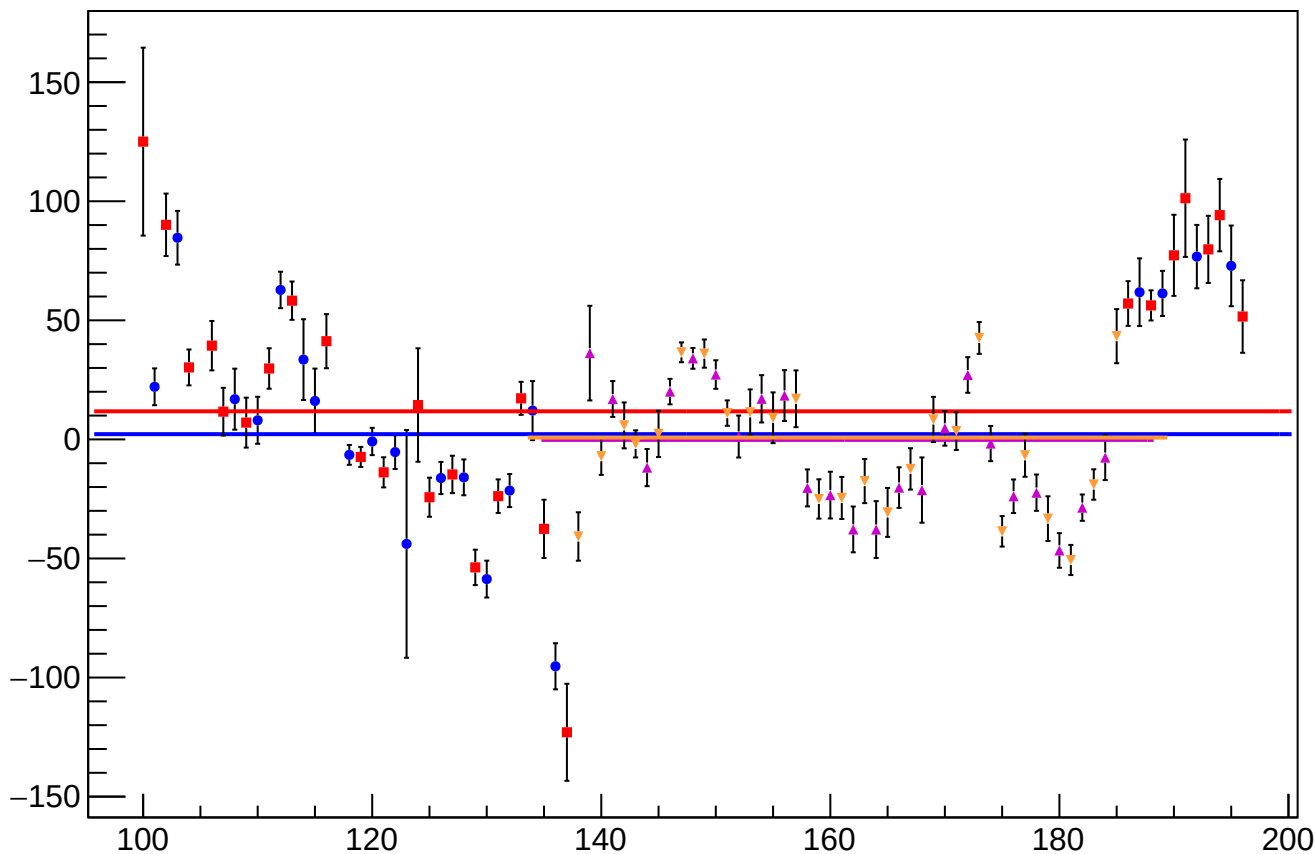
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -455.429 ± 5.158 χ^2/NDF : 533.1/3
 Left Out: -395.547 ± 1.953 χ^2/NDF : 5946.5/24
 Right Out: -499.800 ± 3.351 χ^2/NDF : 1883.2/6
 Left In: -416.521 ± 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 ± 1.399 χ^2/NDF : 9919.7/47
 Right: -486.630 ± 2.810 χ^2/NDF : 2468.3/10
 In: -421.627 ± 1.869 χ^2/NDF : 4499.5/26
 Out: -421.986 ± 1.688 χ^2/NDF : 8552.0/31
 All: -421.825 ± 1.252 χ^2/NDF : 13051.6/58

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.198 ± 1.842 χ^2/NDF : 429.5/20

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 11.793 ± 1.748 χ^2/NDF : 493.7/25

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

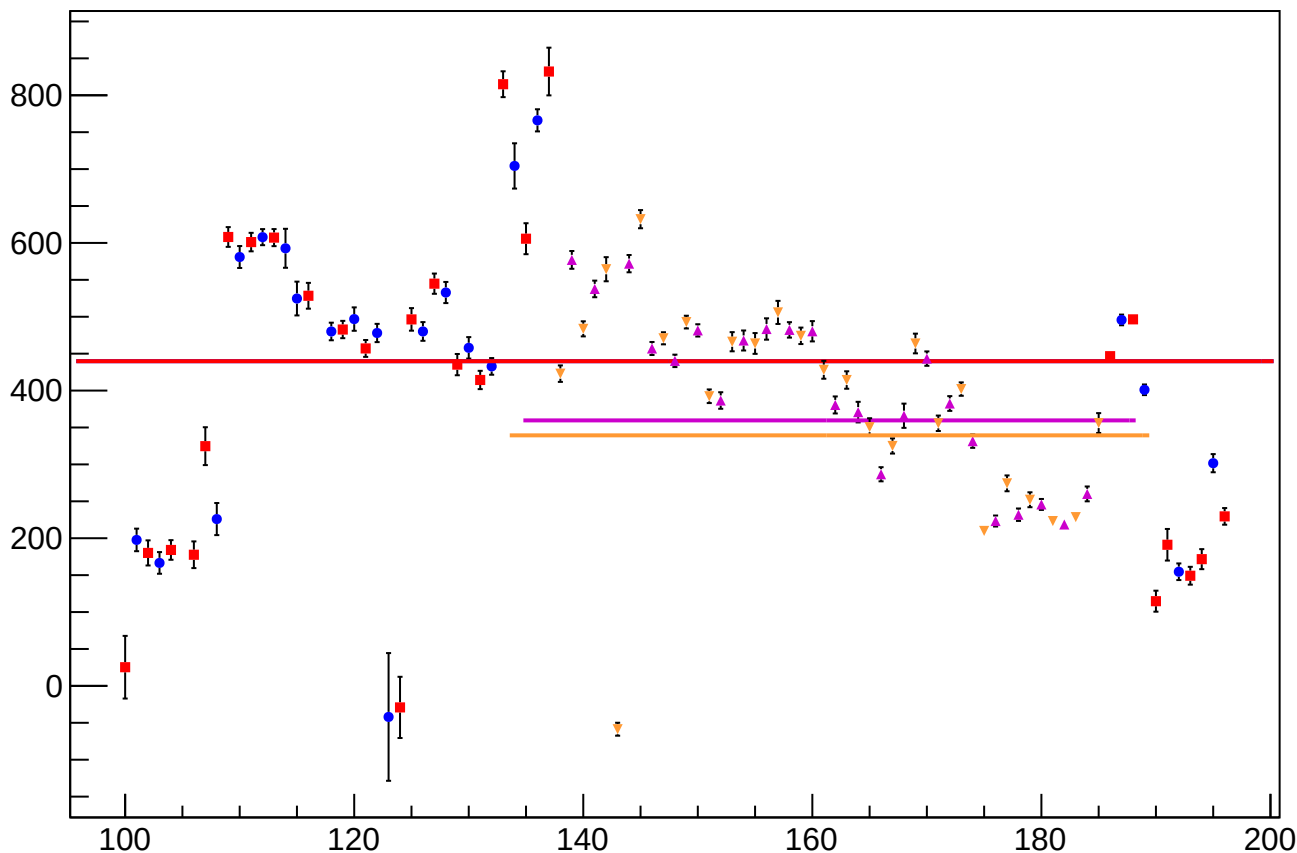
Right: 7.247 ± 1.268 χ^2/NDF : 937.4/46

In: 0.812 ± 1.197 χ^2/NDF : 691.3/43

Out: 5.452 ± 1.140 χ^2/NDF : 866.6/50

All: 3.246 ± 0.825 χ^2/NDF : 1565.8/94

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 439.798 $\pm$ 2.805 χ^2 /NDF: 2592.6/20

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF: 5502.5/24

Right Out: 439.789 $\pm$ 2.176 χ^2 /NDF: 4600.5/25

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF: 3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

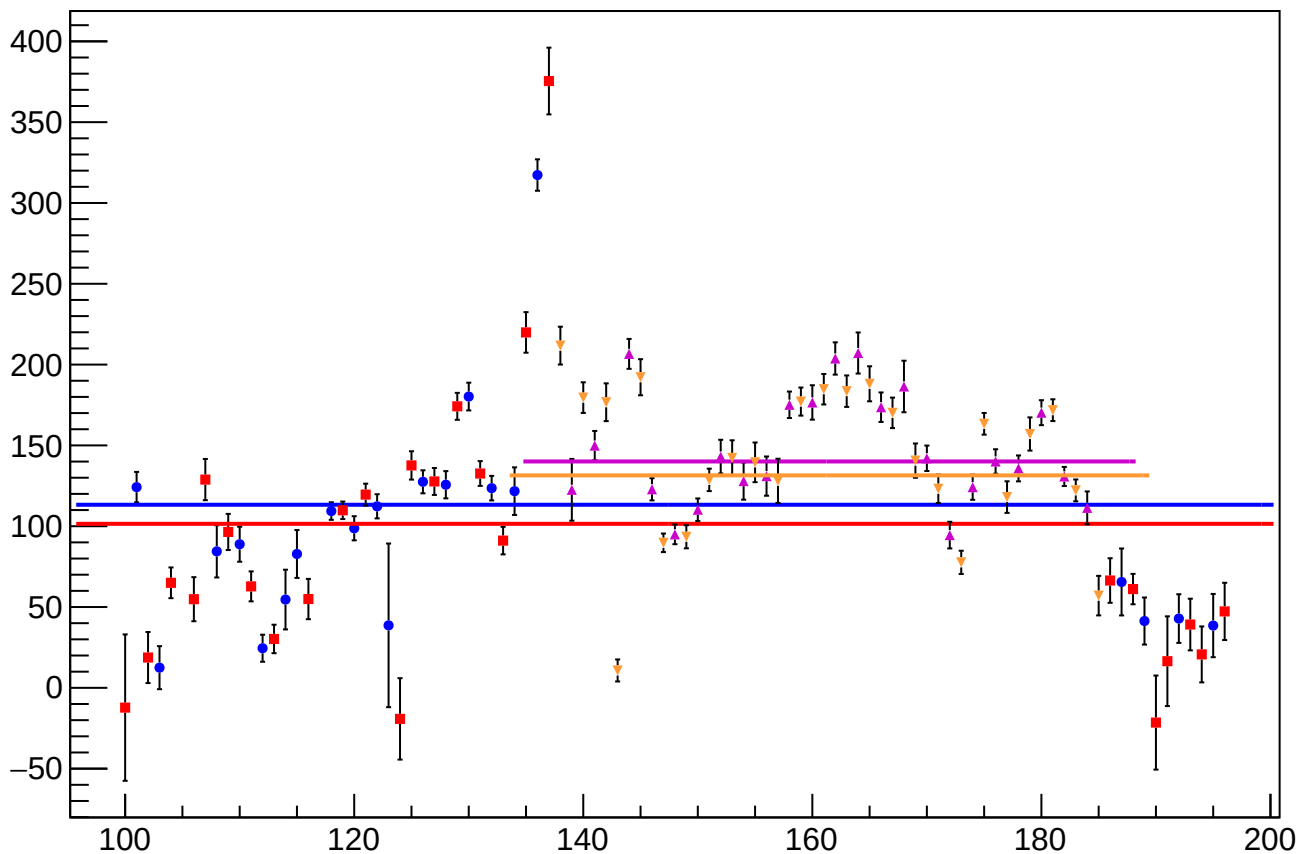
Right: 439.792 $\pm$ 1.719 χ^2 /NDF: 7193.1/46

In: 386.678 $\pm$ 1.630 χ^2 /NDF: 6532.4/43

Out: 384.415 $\pm$ 1.457 χ^2 /NDF: 11277.9/50

All: 385.420 $\pm$ 1.086 χ^2 /NDF: 17811.3/94

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 113.278 $\pm$ 2.156 χ^2 /NDF: 775.8/20

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 101.481 $\pm$ 2.066 χ^2 /NDF: 678.9/25

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

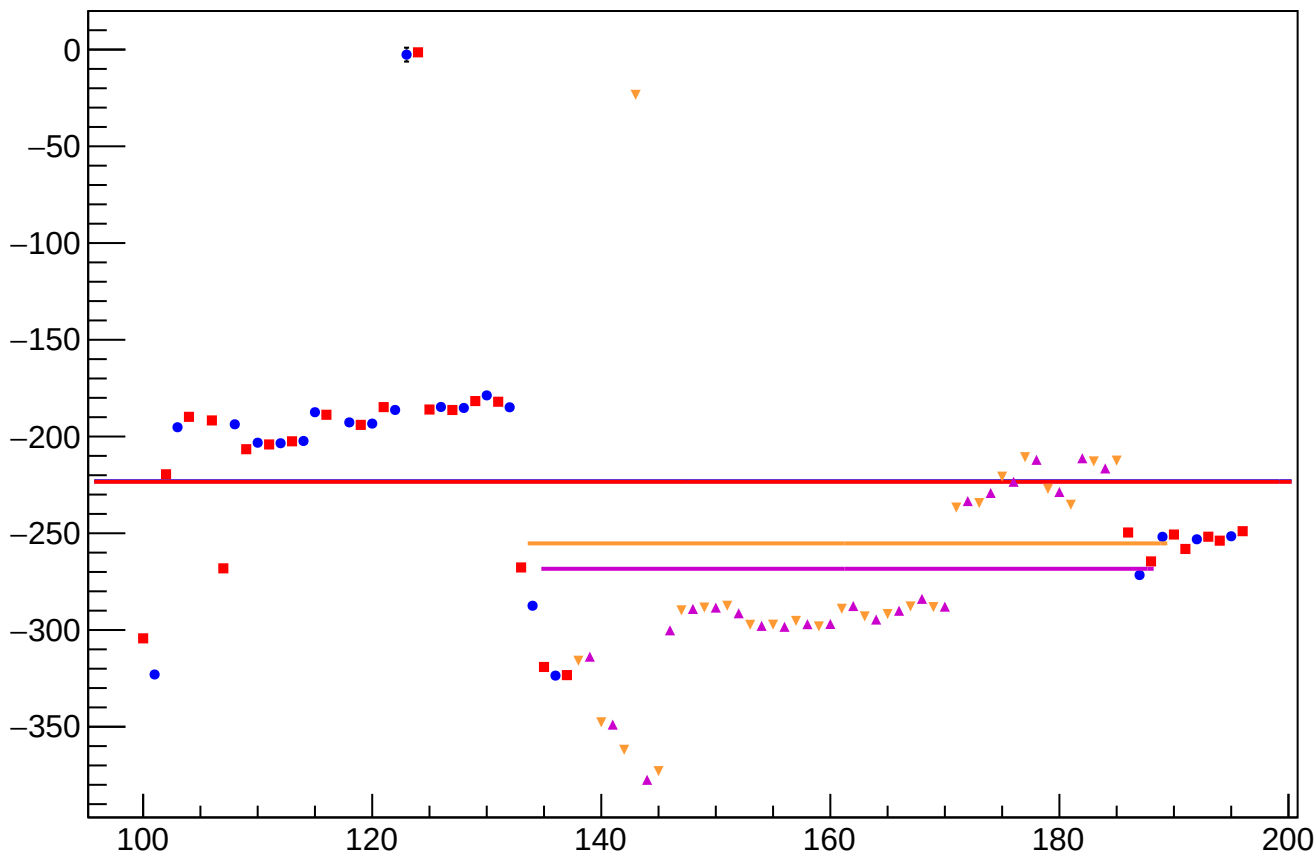
Right: 107.126 $\pm$ 1.492 χ^2 /NDF: 1470.3/46

In: 129.102 $\pm$ 1.380 χ^2 /NDF: 1183.5/43

Out: 119.124 $\pm$ 1.325 χ^2 /NDF: 1612.2/50

All: 123.912 $\pm$ 0.956 χ^2 /NDF: 2822.9/94

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -223.119+/-0.125 χ^2/NDF : 158249.5/20

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -223.397+/-0.113 χ^2/NDF : 142587.2/25

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

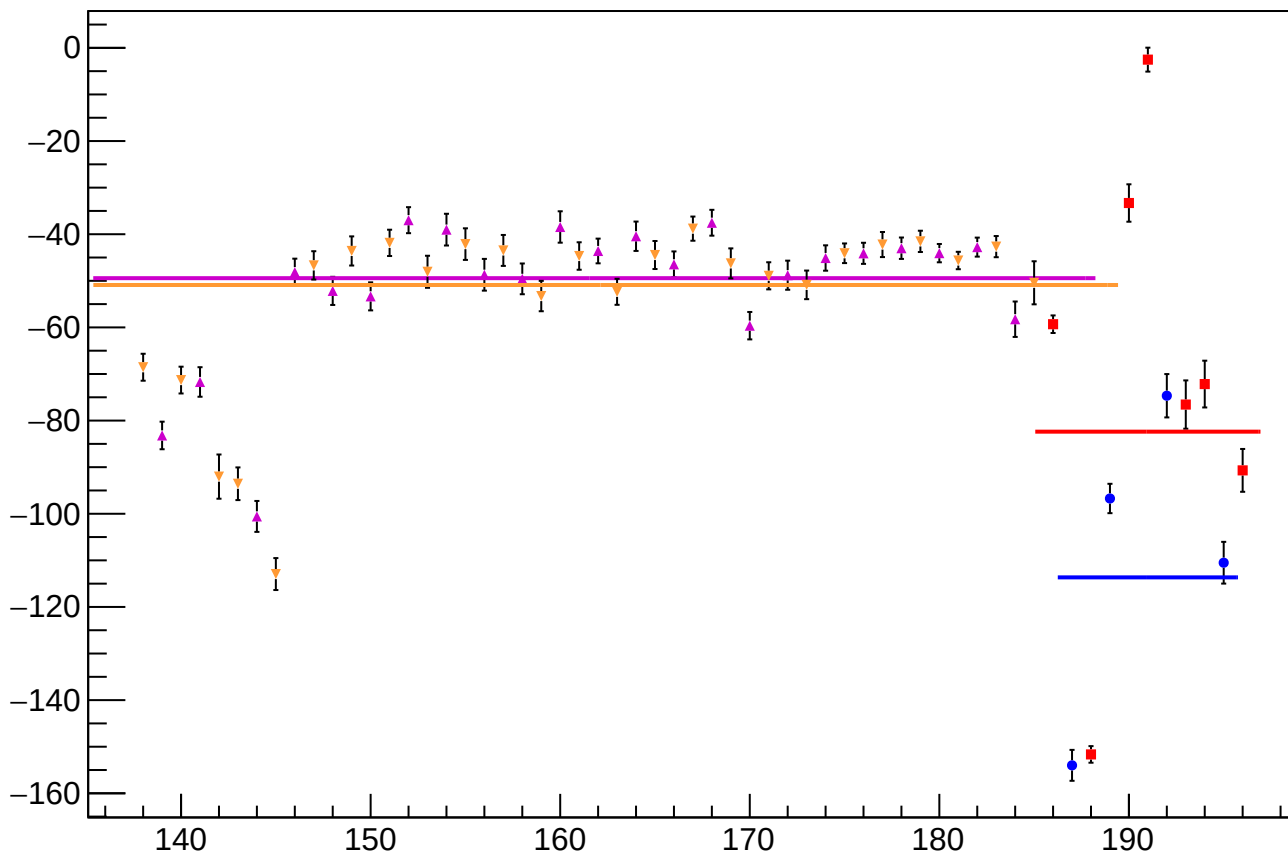
Right: -223.272+/-0.084 χ^2/NDF : 300839.4/46

In: -254.400+/-0.070 χ^2/NDF : 510987.2/43

Out: -244.230+/-0.066 χ^2/NDF : 922743.4/50

All: -249.073+/-0.048 χ^2/NDF : 1444933.9/94

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -113.654 ± 1.865 $\chi^2/\text{NDF}: 247.5/3$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -82.377 ± 1.034 $\chi^2/\text{NDF}: 2788.3/6$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

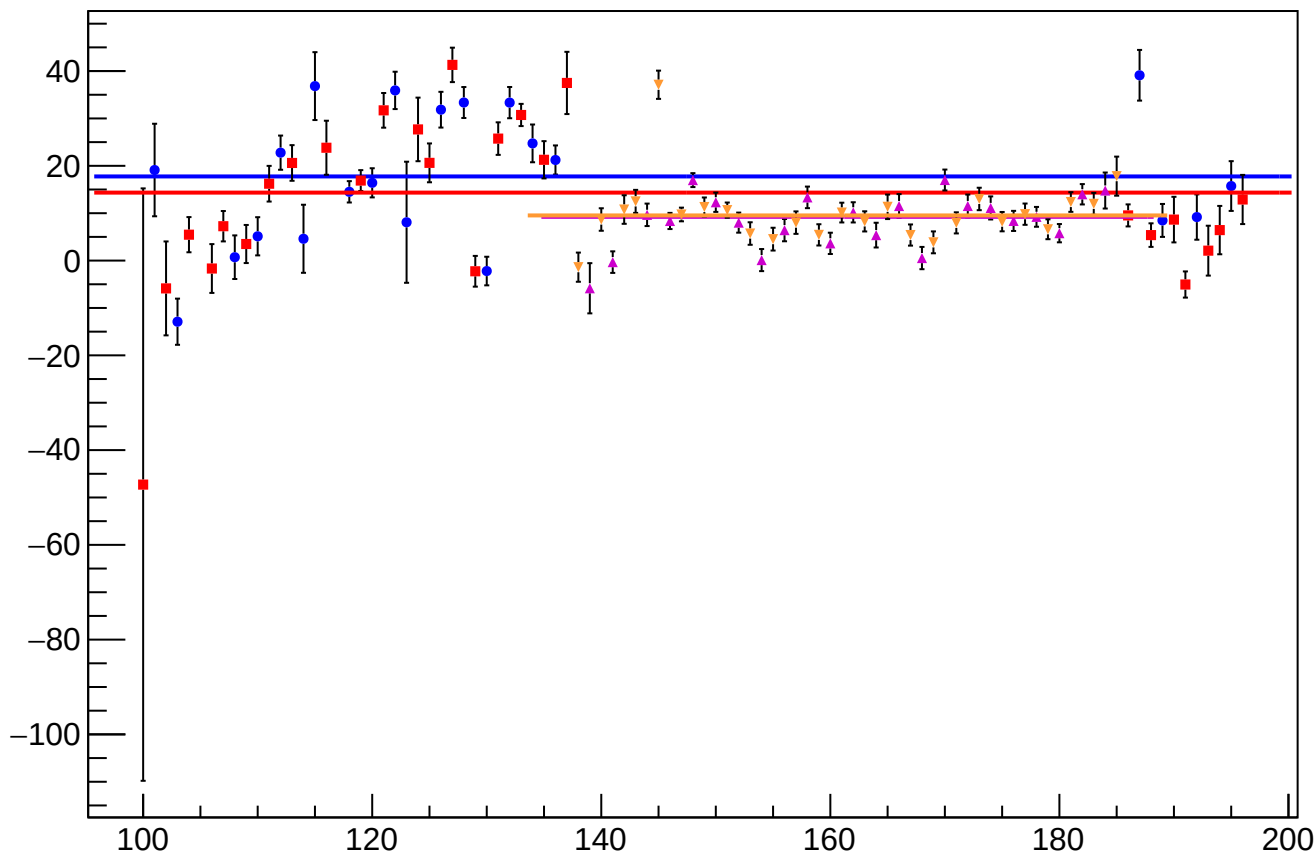
Right: -89.738 ± 0.905 $\chi^2/\text{NDF}: 3250.9/10$

In: -55.168 ± 0.557 $\chi^2/\text{NDF}: 1871.2/26$

Out: -58.284 ± 0.501 $\chi^2/\text{NDF}: 4258.2/31$

All: -56.890 ± 0.373 $\chi^2/\text{NDF}: 6146.7/58$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.760 ± 0.850 $\chi^2/\text{NDF}: 233.2/20$

Left Out: 9.530 ± 0.446 $\chi^2/\text{NDF}: 134.4/24$

Right Out: 14.346 ± 0.712 $\chi^2/\text{NDF}: 301.2/25$

Left In: 9.231 ± 0.462 $\chi^2/\text{NDF}: 124.0/22$

Left: 9.386 ± 0.321 $\chi^2/\text{NDF}: 258.5/47$

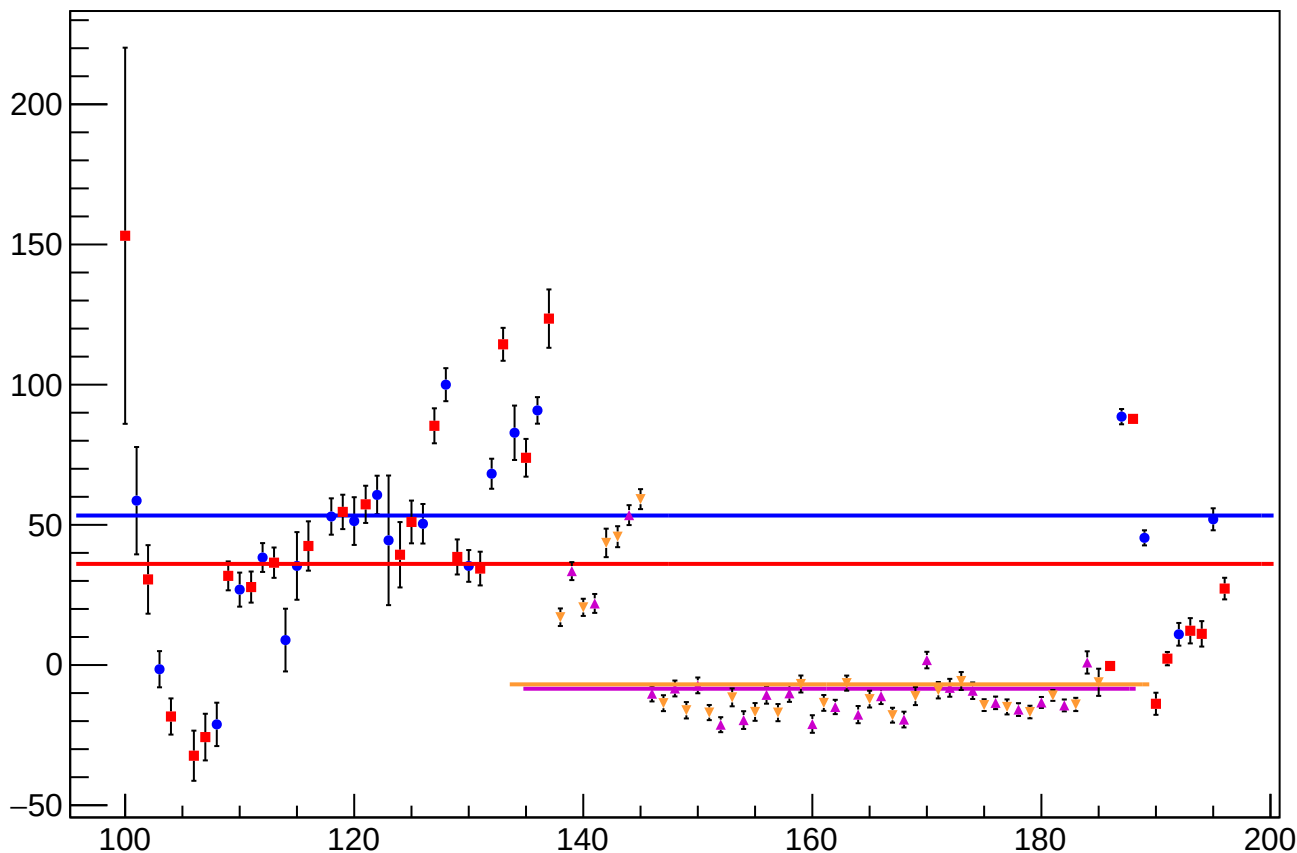
Right: 15.753 ± 0.546 $\chi^2/\text{NDF}: 543.9/46$

In: 11.172 ± 0.406 $\chi^2/\text{NDF}: 434.9/43$

Out: 10.887 ± 0.378 $\chi^2/\text{NDF}: 468.4/50$

All: 11.020 ± 0.277 $\chi^2/\text{NDF}: 903.5/94$

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 53.326 $\pm$ 1.153 χ^2 /NDF: 650.3/20

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 36.072 $\pm$ 0.763 χ^2 /NDF: 2861.4/25

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

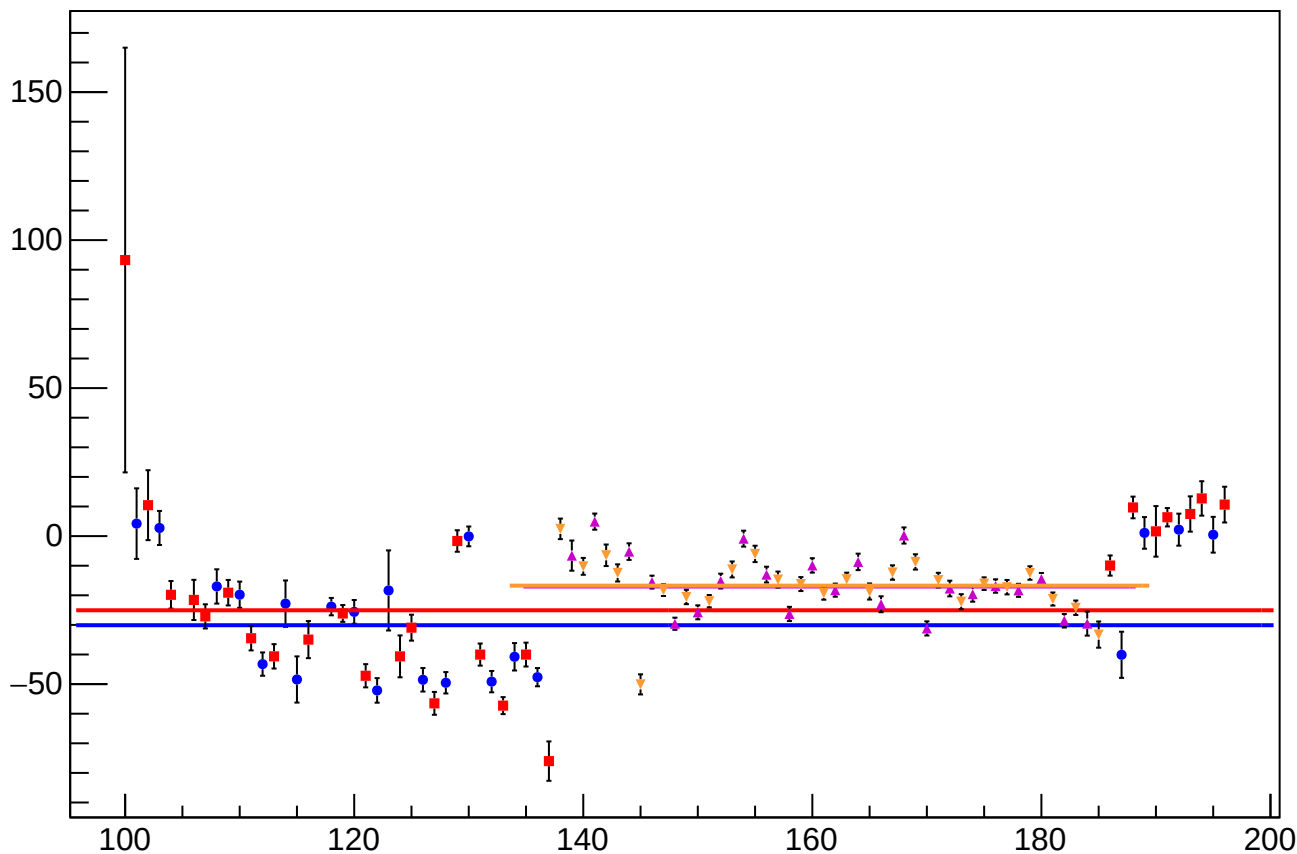
Right: 41.328 $\pm$ 0.636 χ^2 /NDF: 3667.4/46

In: 4.022 $\pm$ 0.518 χ^2 /NDF: 3631.2/43

Out: 8.534 $\pm$ 0.457 χ^2 /NDF: 5807.8/50

All: 6.558 $\pm$ 0.343 χ^2 /NDF: 9481.6/94

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.105 ± 0.986 $\chi^2/\text{NDF}: 397.2/20$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -25.058 ± 0.852 $\chi^2/\text{NDF}: 726.5/25$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

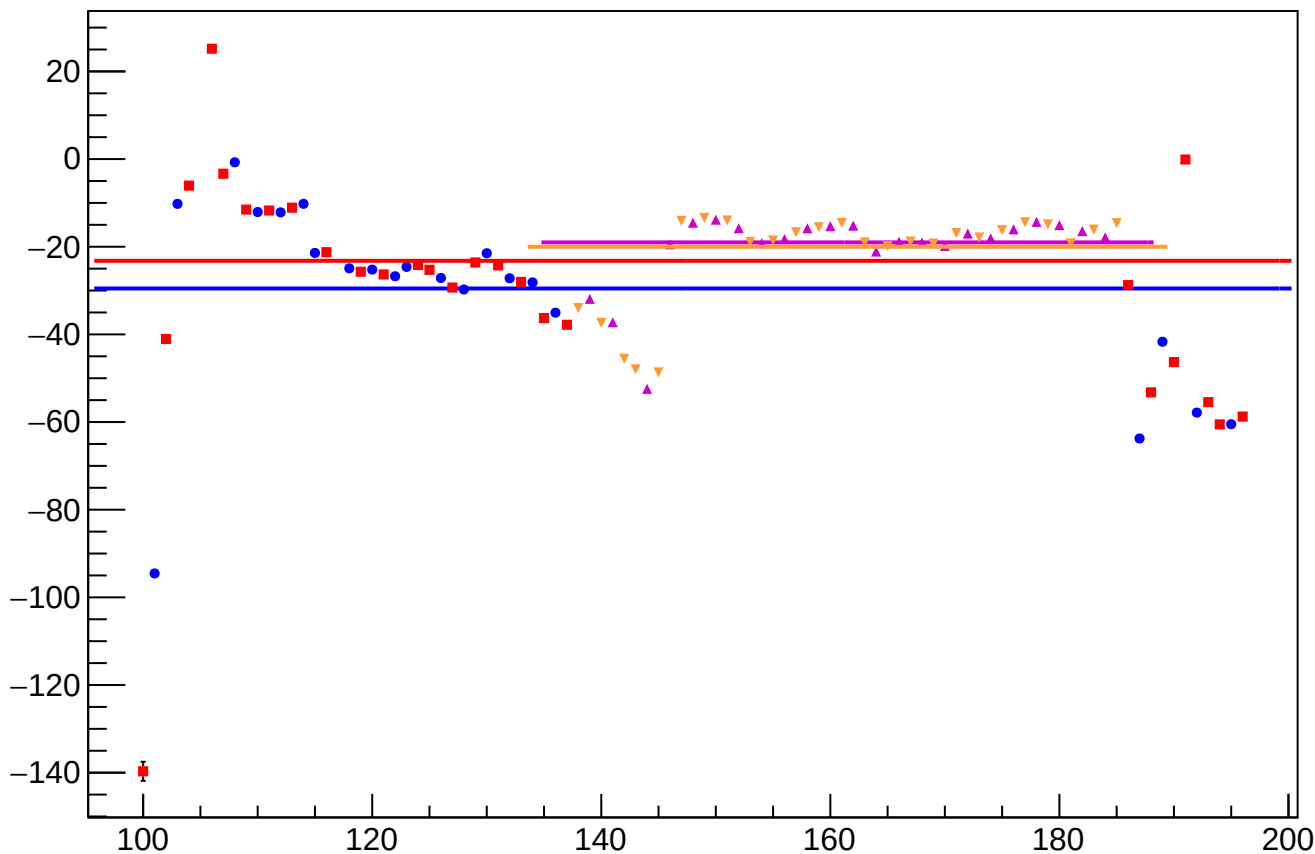
Right: -27.215 ± 0.645 $\chi^2/\text{NDF}: 1138.7/46$

In: -19.884 ± 0.461 $\chi^2/\text{NDF}: 862.2/43$

Out: -18.907 ± 0.436 $\chi^2/\text{NDF}: 1020.3/50$

All: -19.368 ± 0.317 $\chi^2/\text{NDF}: 1884.9/94$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -29.527 ± 0.052 $\chi^2/\text{NDF}: 133516.1/20$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -23.209 ± 0.041 $\chi^2/\text{NDF}: 312289.9/25$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

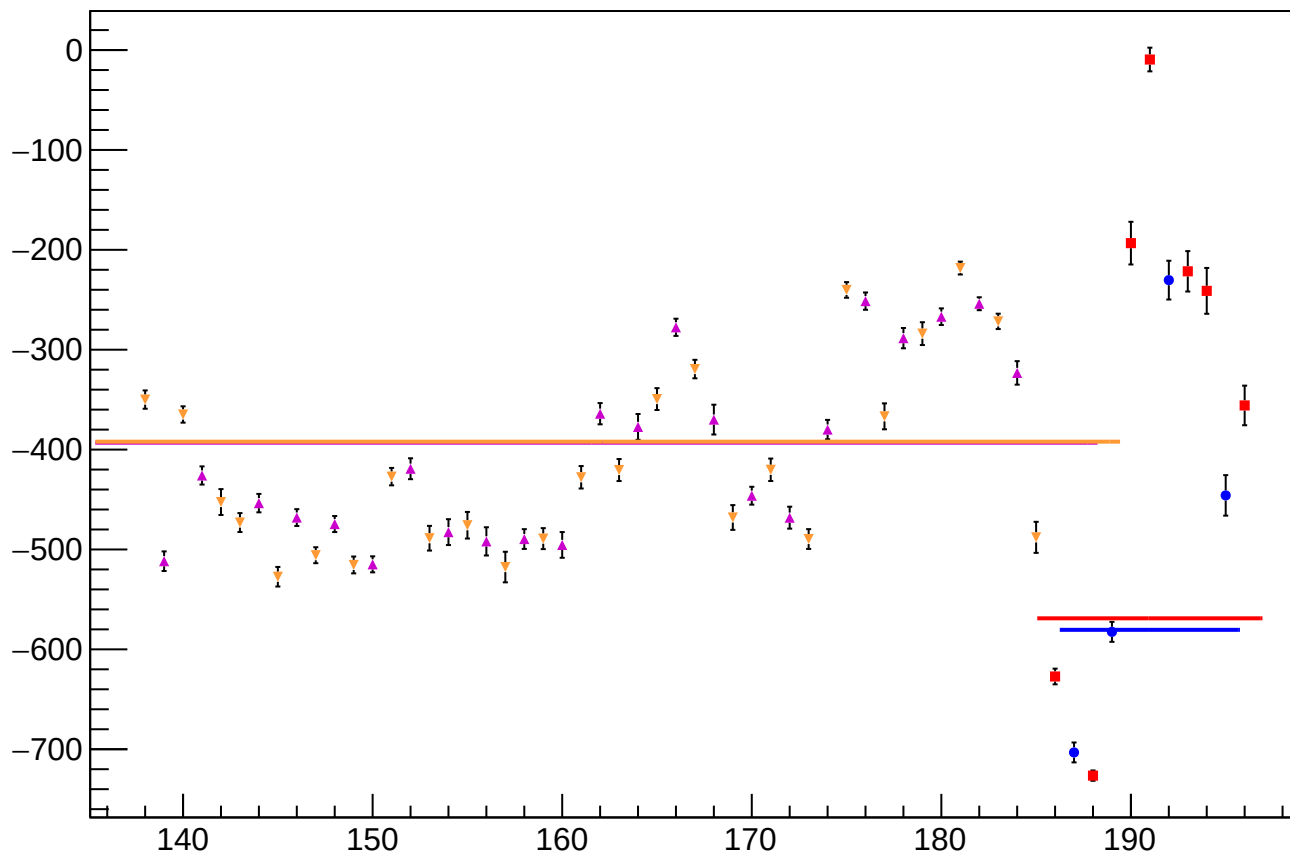
Right: -25.655 ± 0.032 $\chi^2/\text{NDF}: 455011.5/46$

In: -20.839 ± 0.022 $\chi^2/\text{NDF}: 258778.9/43$

Out: -20.788 ± 0.020 $\chi^2/\text{NDF}: 462530.2/50$

All: -20.812 ± 0.015 $\chi^2/\text{NDF}: 721312.1/94$

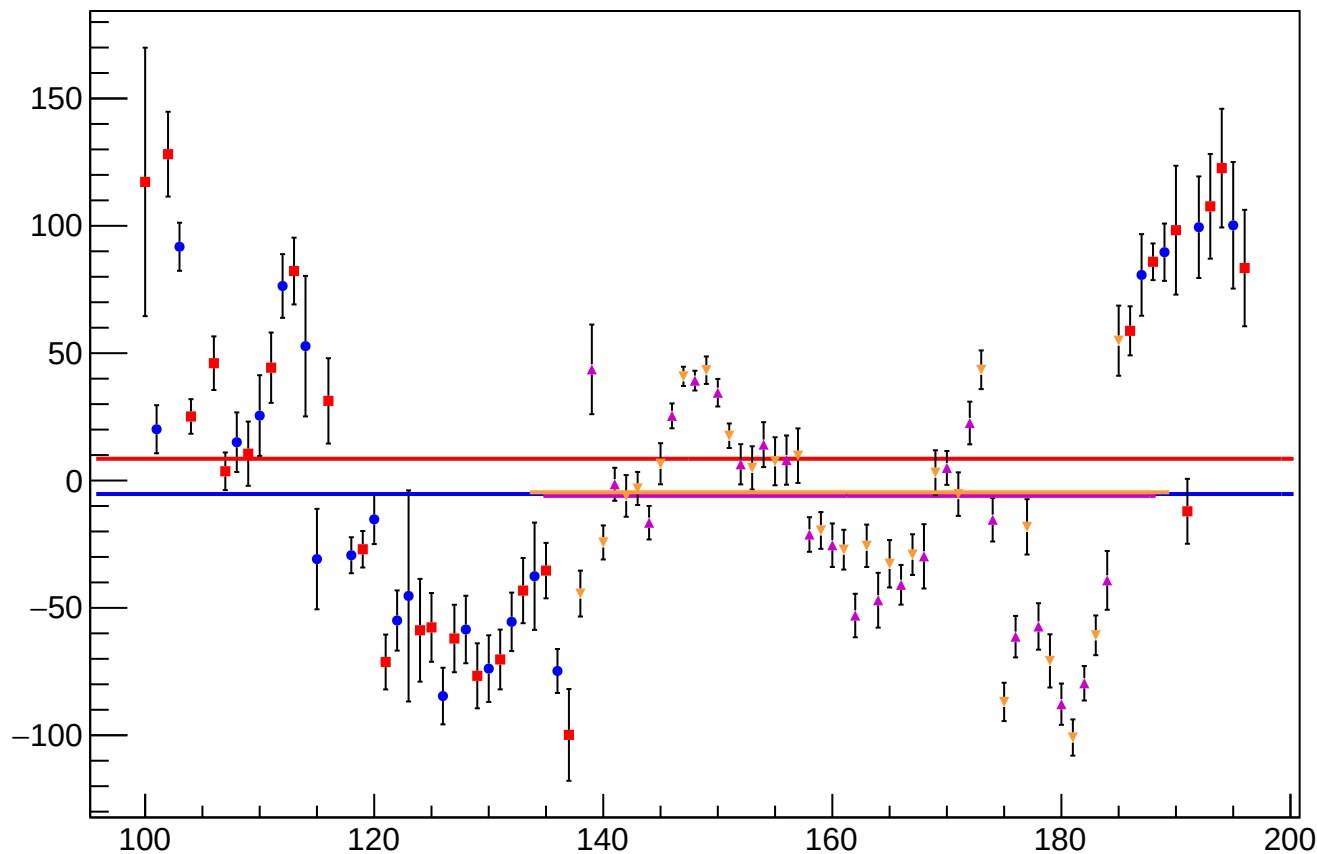
reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -580.464 $\pm$ 6.305 χ^2 /NDF: 521.1/3
 Left Out: -392.054 $\pm$ 1.967 χ^2 /NDF:2717.2/24
 Right Out: -568.934 $\pm$ 3.789 χ^2 /NDF: 4129.7/6
 Left In: -393.113 $\pm$ 2.006 χ^2 /NDF:2253.3/22

Left: -392.573 $\pm$ 1.404 χ^2 /NDF: 4970.6/47
 Right: -571.992 $\pm$ 3.248 χ^2 /NDF: 4653.2/10
 In: -410.325 $\pm$ 1.911 χ^2 /NDF:3576.1/26
 Out: -429.593 $\pm$ 1.745 χ^2 /NDF:8563.7/31
 All: -420.830 $\pm$ 1.289 χ^2 /NDF: 12195.2/58

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.291 ± 2.661 $\chi^2/\text{NDF}: 526.1/20$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 8.538 ± 2.291 $\chi^2/\text{NDF}: 632.4/25$

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: 2.652 ± 1.736 $\chi^2/\text{NDF}: 1174.0/46$

In: -5.840 ± 1.317 $\chi^2/\text{NDF}: 1180.2/43$

Out: -0.814 ± 1.233 $\chi^2/\text{NDF}: 1428.7/50$

All: -3.160 ± 0.900 $\chi^2/\text{NDF}: 2616.7/94$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 679.398 ± 3.650 $\chi^2/\text{NDF}: 3241.3/20$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 655.322 ± 2.607 $\chi^2/\text{NDF}: 8765.2/25$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

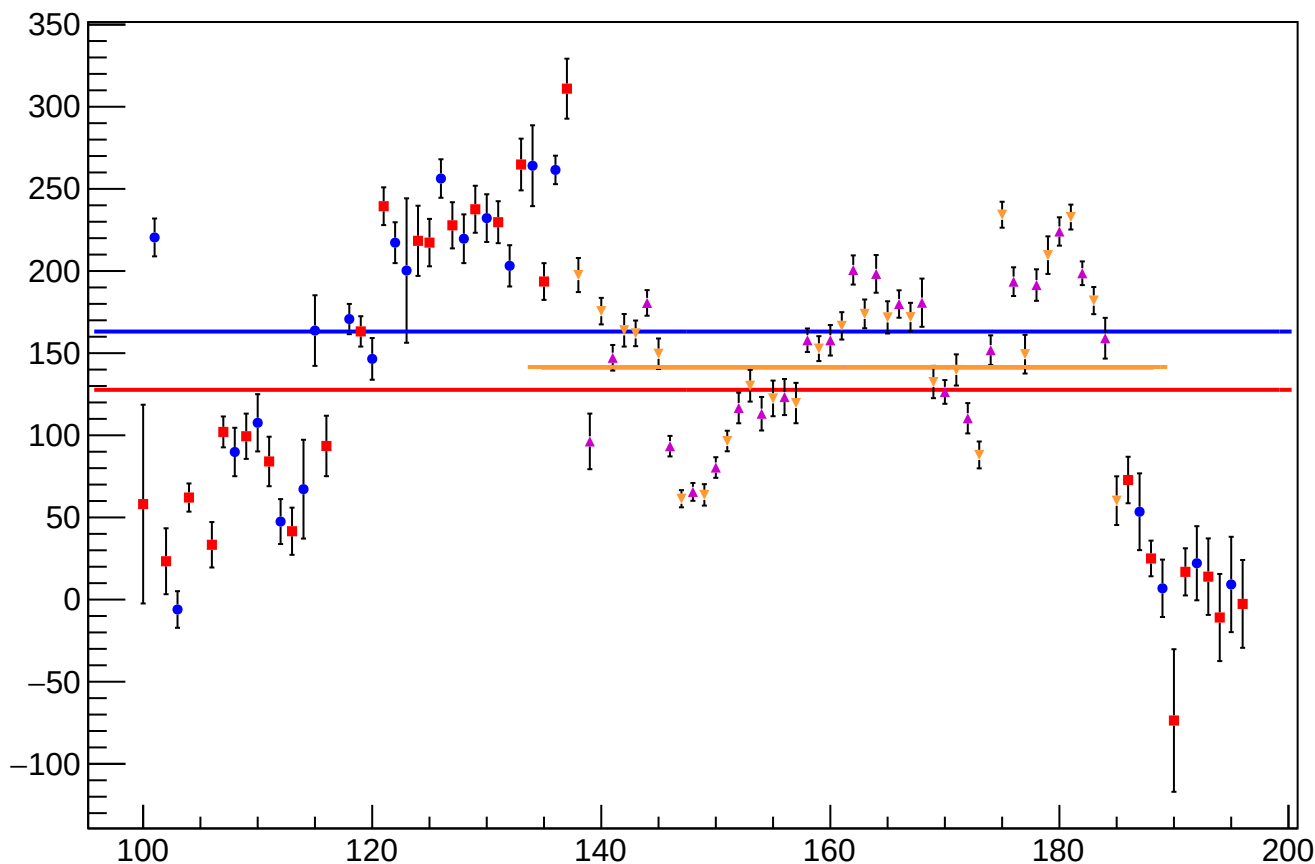
Right: 663.455 ± 2.121 $\chi^2/\text{NDF}: 12035.2/46$

In: 537.673 ± 1.749 $\chi^2/\text{NDF}: 7451.9/43$

Out: 554.636 ± 1.570 $\chi^2/\text{NDF}: 13719.6/50$

All: 547.067 ± 1.168 $\chi^2/\text{NDF}: 21223.5/94$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 163.154 $\pm$ 3.113 χ^2 /NDF: 819.2/20

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 127.681 $\pm$ 2.760 χ^2 /NDF: 1004.5/25

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

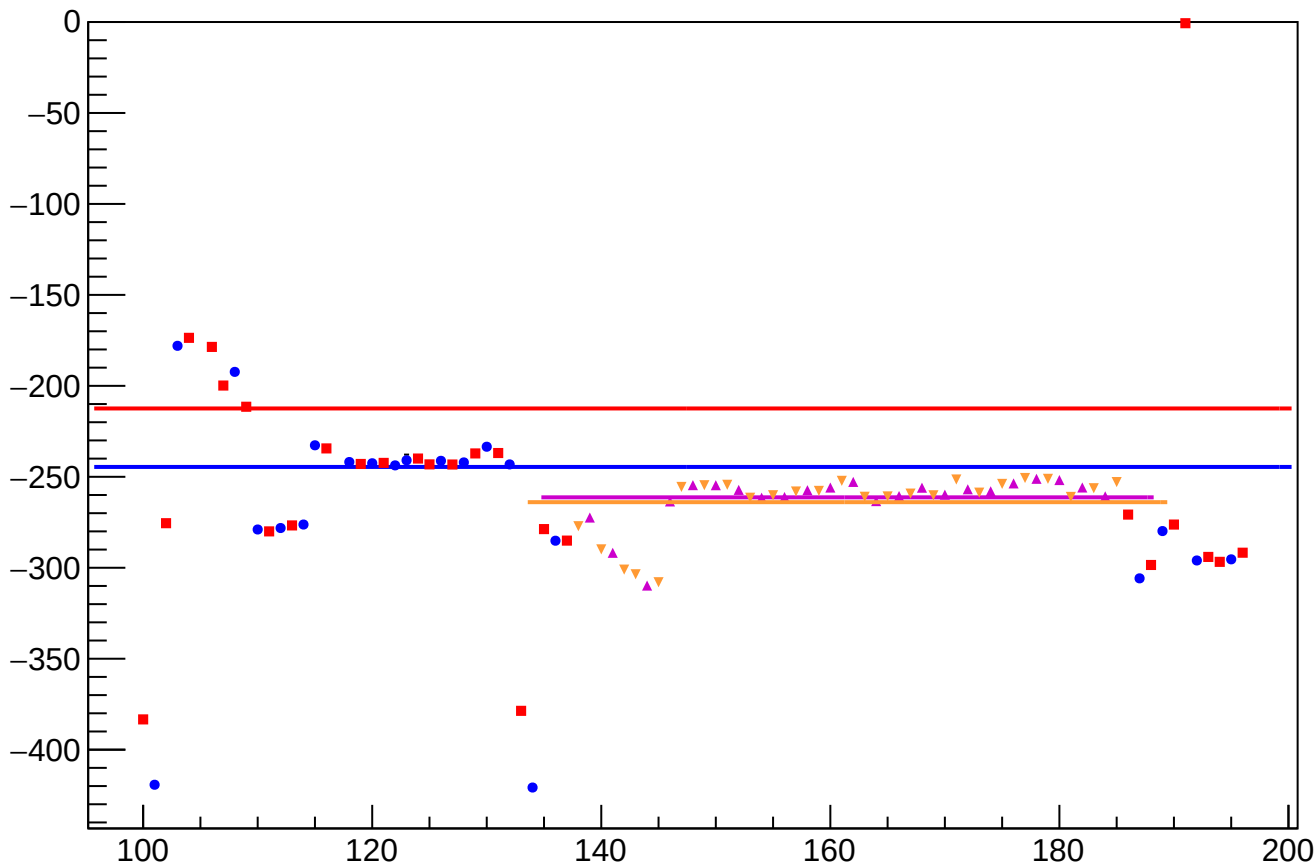
Right: 143.291 $\pm$ 2.065 χ^2 /NDF: 1896.4/46

In: 146.585 $\pm$ 1.524 χ^2 /NDF:1597.7/43

Out: 137.767 $\pm$ 1.446 χ^2 /NDF:1982.5/50

All: 141.946 $\pm$ 1.049 χ^2 /NDF: 3597.8/94

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -244.575+/-0.151 χ^2/NDF : 180935.8/20

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -212.434+/-0.130 χ^2/NDF : 461878.5/25

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

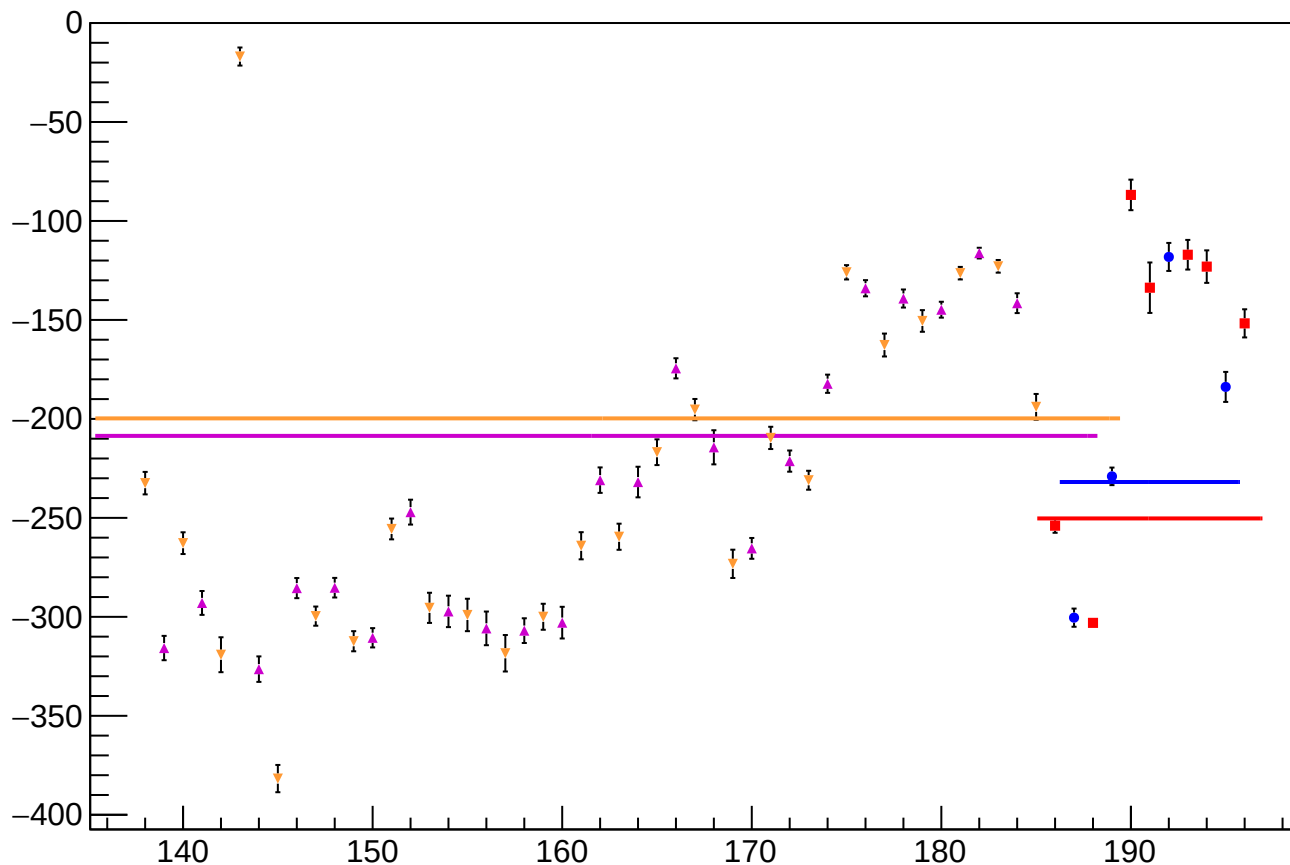
Right: -226.075+/-0.098 χ^2/NDF : 668924.9/46

In: -257.479+/-0.072 χ^2/NDF : 213752.7/43

Out: -249.408+/-0.069 χ^2/NDF : 614386.9/50

All: -253.260+/-0.050 χ^2/NDF : 834702.1/94

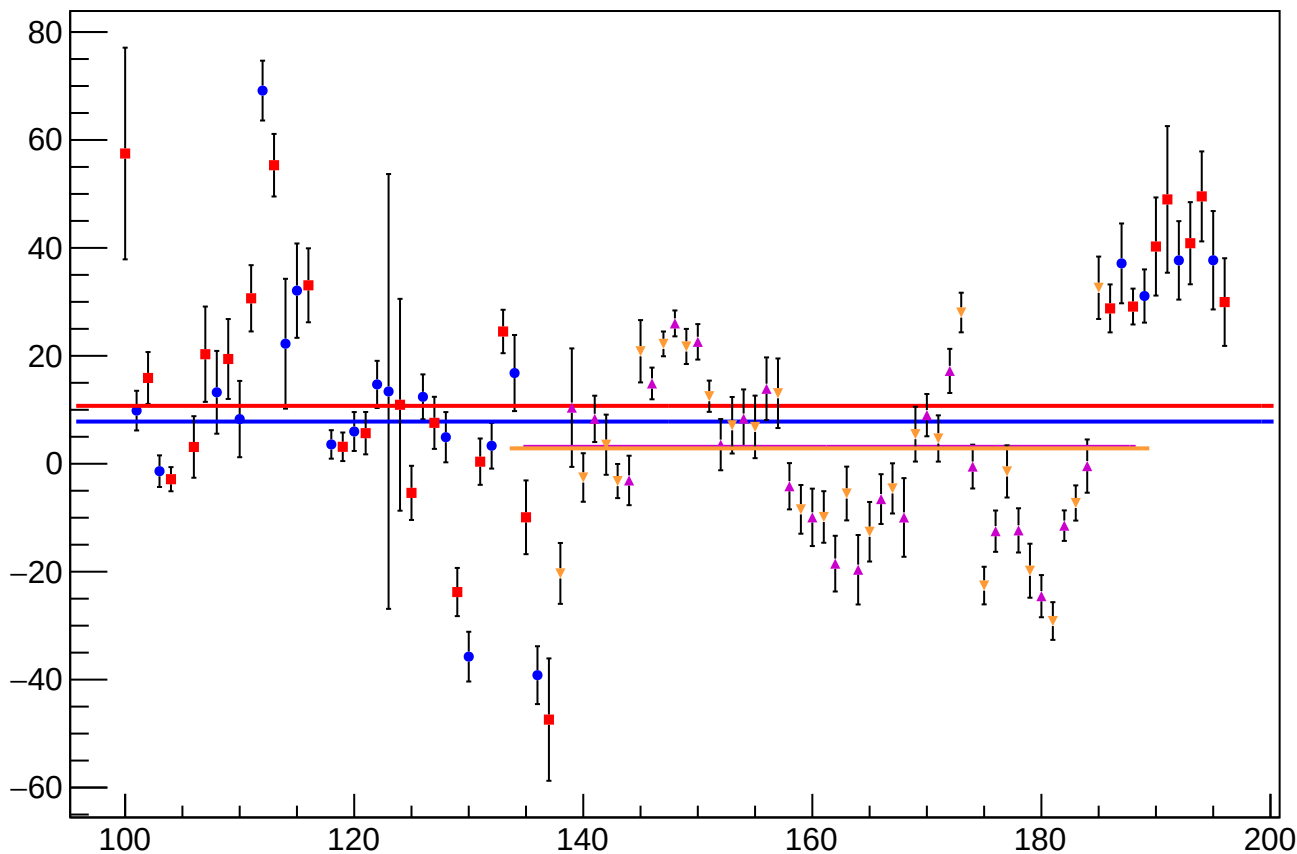
reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -231.877 ± 2.715 $\chi^2/\text{NDF}: 521.5/3$
 Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$
 Right Out: -250.284 ± 1.738 $\chi^2/\text{NDF}: 1777.3/6$
 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: -244.932 ± 1.464 $\chi^2/\text{NDF}: 2331.4/10$
 In: -211.775 ± 1.005 $\chi^2/\text{NDF}: 5390.2/26$
 Out: -213.463 ± 0.906 $\chi^2/\text{NDF}: 8754.7/31$
 All: -212.707 ± 0.673 $\chi^2/\text{NDF}: 14146.5/58$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.819 ± 1.051 $\chi^2/\text{NDF}: 383.7/20$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 10.731 ± 0.963 $\chi^2/\text{NDF}: 370.3/25$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

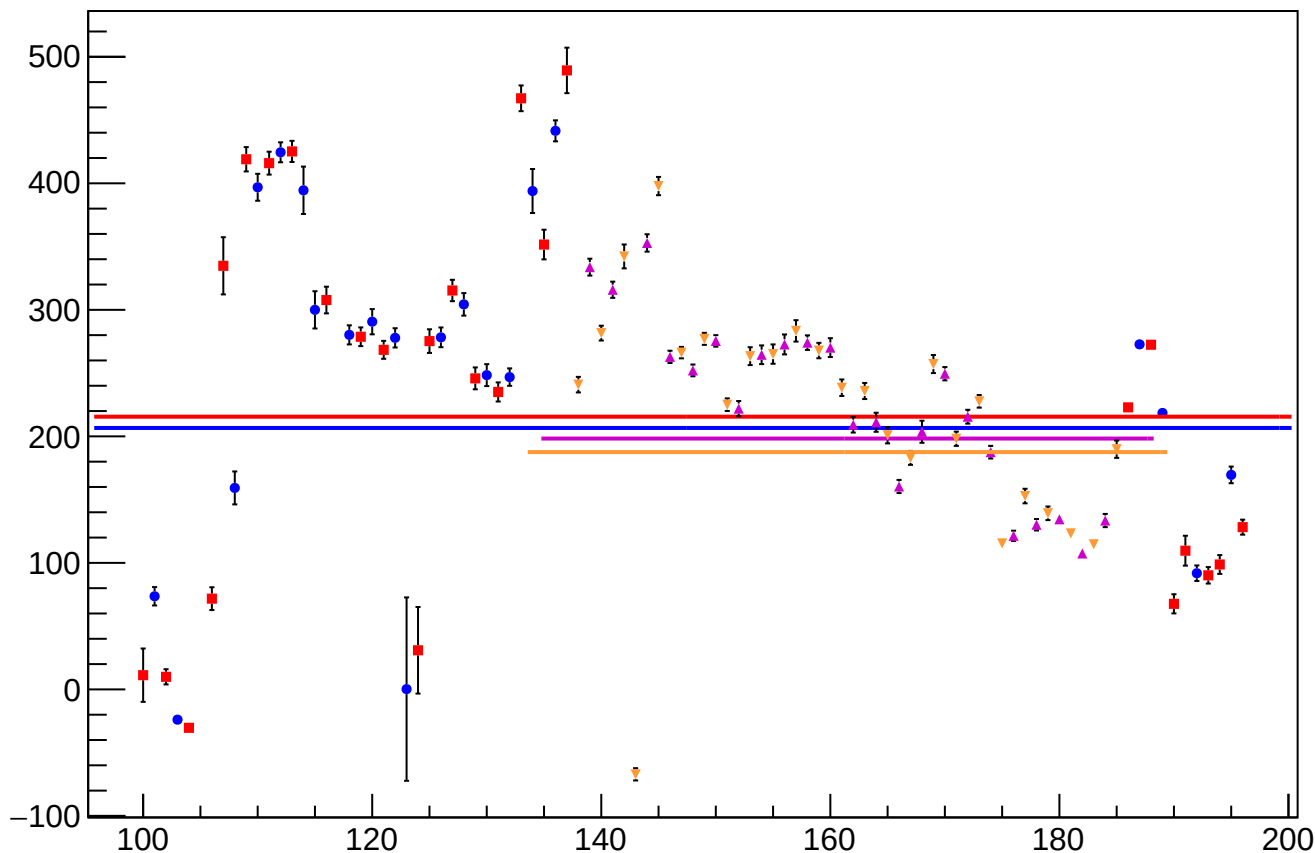
Right: 9.402 ± 0.710 $\chi^2/\text{NDF}: 758.1/46$

In: 5.006 ± 0.664 $\chi^2/\text{NDF}: 715.4/43$

Out: 6.165 ± 0.624 $\chi^2/\text{NDF}: 828.9/50$

All: 5.621 ± 0.455 $\chi^2/\text{NDF}: 1546.0/94$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 206.653 ± 1.499 $\chi^2/\text{NDF}: 7424.5/20$

Left Out: 187.565 ± 1.066 $\chi^2/\text{NDF}: 7082.0/24$

Right Out: 215.544 ± 1.147 $\chi^2/\text{NDF}: 10551.3/25$

Left In: 198.269 ± 1.082 $\chi^2/\text{NDF}: 4515.8/22$

Left: 192.839 ± 0.759 $\chi^2/\text{NDF}: 11647.5/47$

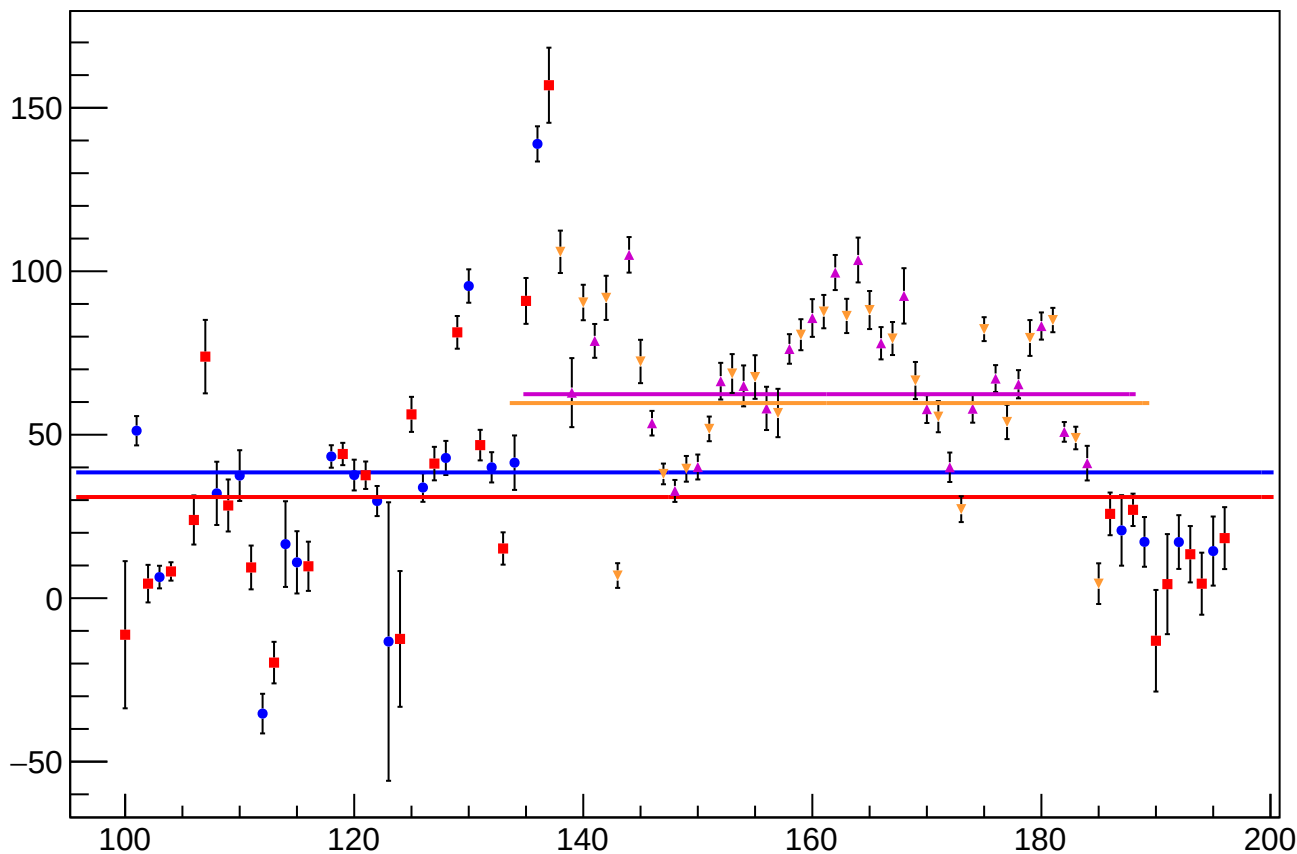
Right: 212.263 ± 0.911 $\chi^2/\text{NDF}: 17997.9/46$

In: 201.138 ± 0.877 $\chi^2/\text{NDF}: 11960.8/43$

Out: 200.532 ± 0.781 $\chi^2/\text{NDF}: 17952.7/50$

All: 200.800 ± 0.583 $\chi^2/\text{NDF}: 29913.7/94$

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.477 ± 1.236 $\chi^2/\text{NDF}: 758.2/20$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 30.942 ± 1.158 $\chi^2/\text{NDF}: 578.2/25$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

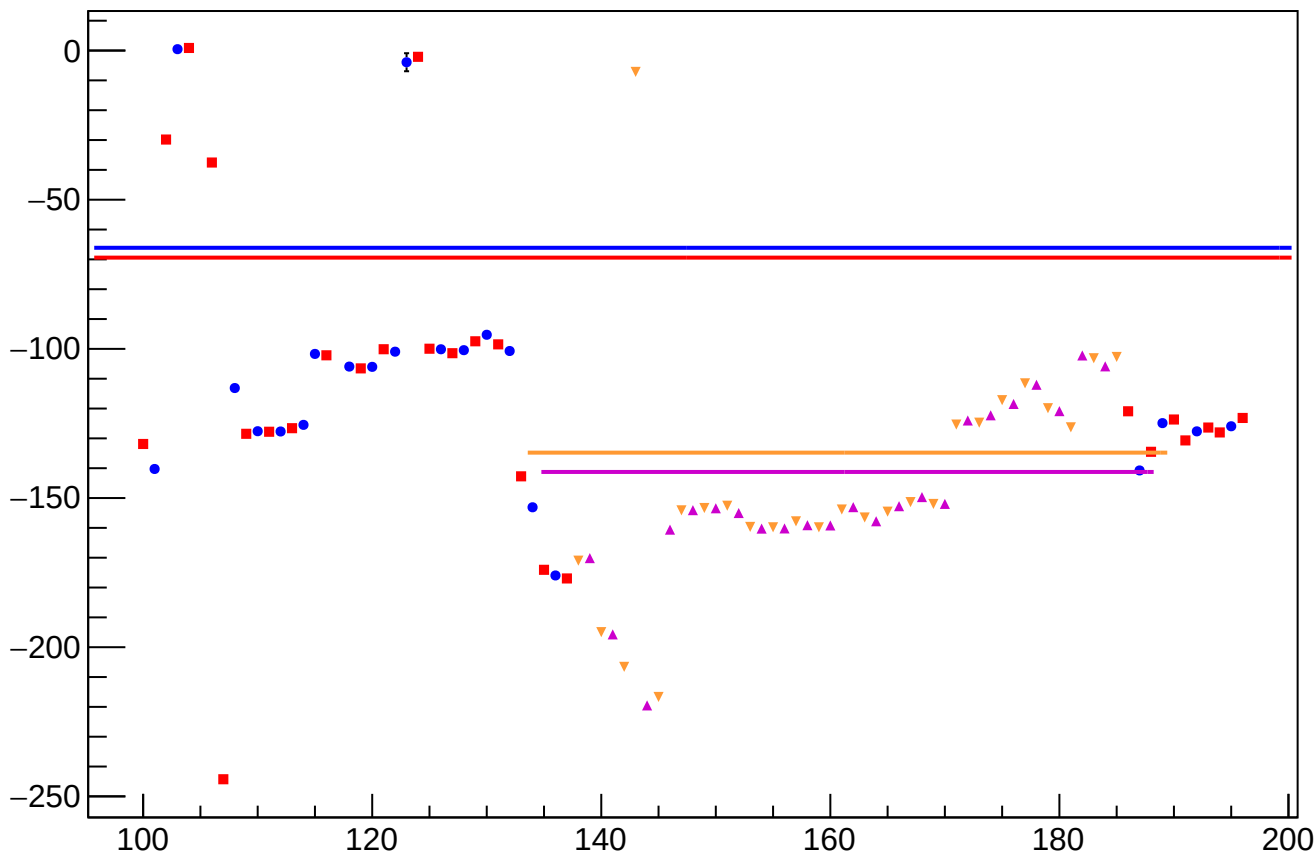
Right: 34.464 ± 0.845 $\chi^2/\text{NDF}: 1356.2/46$

In: 53.233 ± 0.765 $\chi^2/\text{NDF}: 1395.5/43$

Out: 48.254 ± 0.730 $\chi^2/\text{NDF}: 1706.9/50$

All: 50.627 ± 0.528 $\chi^2/\text{NDF}: 3124.6/94$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -66.114 $\pm$ 0.058 χ^2 /NDF: 1253574.1/20

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -69.412 $\pm$ 0.054 χ^2 /NDF: 1296026.7/25

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

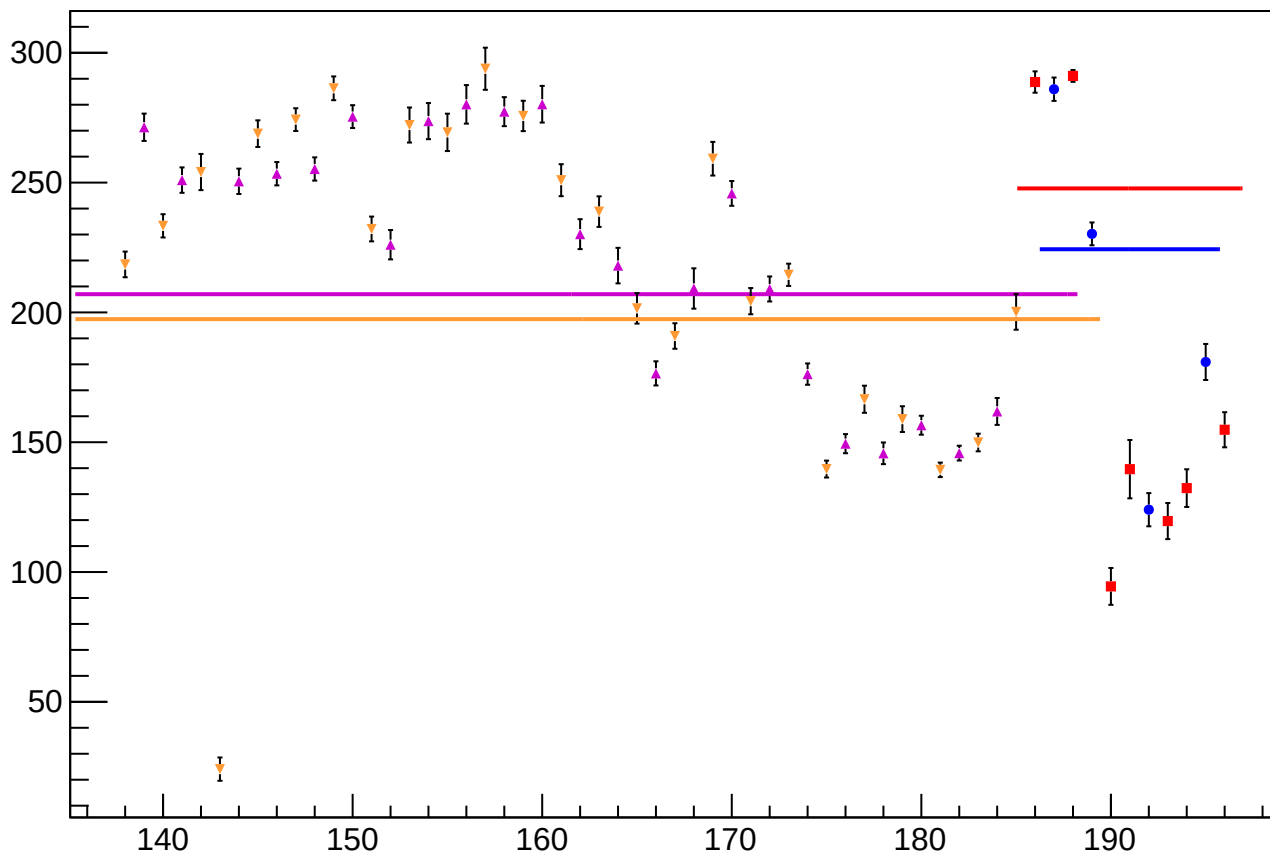
Right: -67.884 $\pm$ 0.039 χ^2 /NDF: 2551335.4/46

In: -112.798 $\pm$ 0.036 χ^2 /NDF: 2643220.5/43

Out: -108.283 $\pm$ 0.034 χ^2 /NDF: 2975317.9/50

All: -110.452 $\pm$ 0.025 χ^2 /NDF: 5626853.1/94

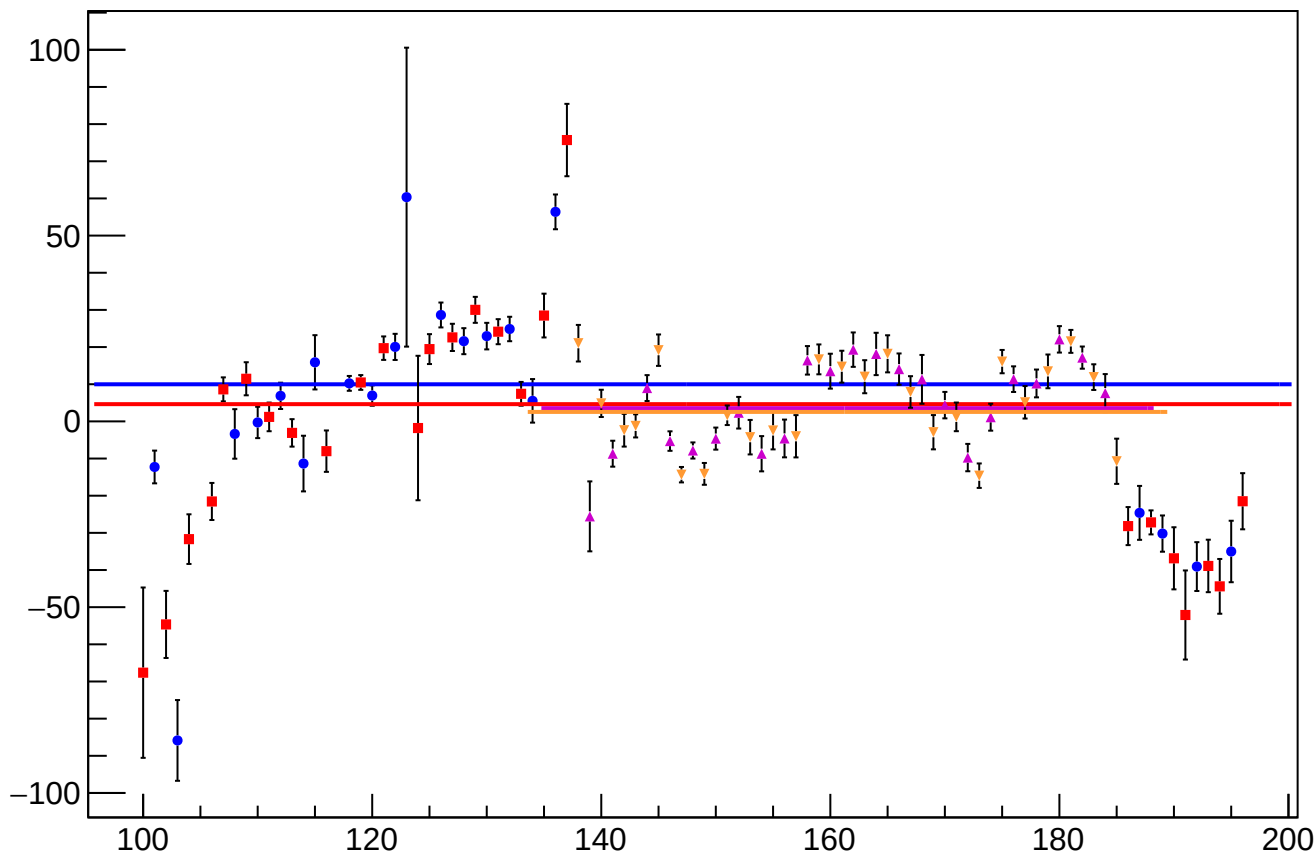
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 224.328 ± 2.614 $\chi^2/\text{NDF}: 474.7/3$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 247.752 ± 1.713 $\chi^2/\text{NDF}: 1801.0/6$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 240.717 ± 1.432 $\chi^2/\text{NDF}: 2331.9/10$
 In: 209.187 ± 0.926 $\chi^2/\text{NDF}: 3124.6/26$
 Out: 209.501 ± 0.839 $\chi^2/\text{NDF}: 6841.9/31$
 All: 209.359 ± 0.622 $\chi^2/\text{NDF}: 9966.6/58$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.983 ± 0.900 $\chi^2/\text{NDF}: 484.2/20$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 4.637 ± 0.843 $\chi^2/\text{NDF}: 629.3/25$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

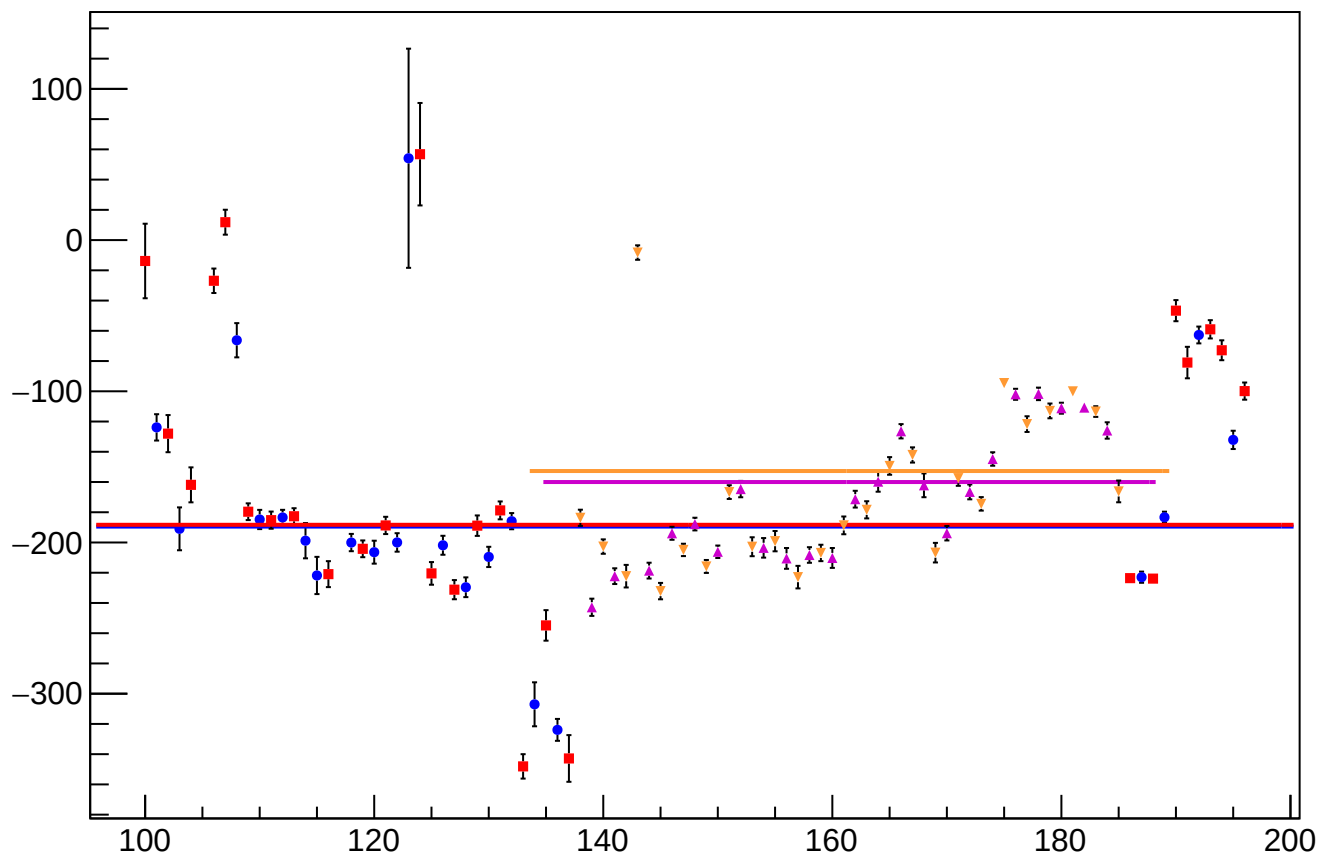
Right: 7.137 ± 0.615 $\chi^2/\text{NDF}: 1132.4/46$

In: 6.291 ± 0.587 $\chi^2/\text{NDF}: 705.5/43$

Out: 3.458 ± 0.557 $\chi^2/\text{NDF}: 908.2/50$

All: 4.800 ± 0.404 $\chi^2/\text{NDF}: 1626.0/94$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -189.470 ± 1.395 $\chi^2/\text{NDF}: 1361.9/20$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -188.296 ± 1.088 $\chi^2/\text{NDF}: 3763.9/25$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

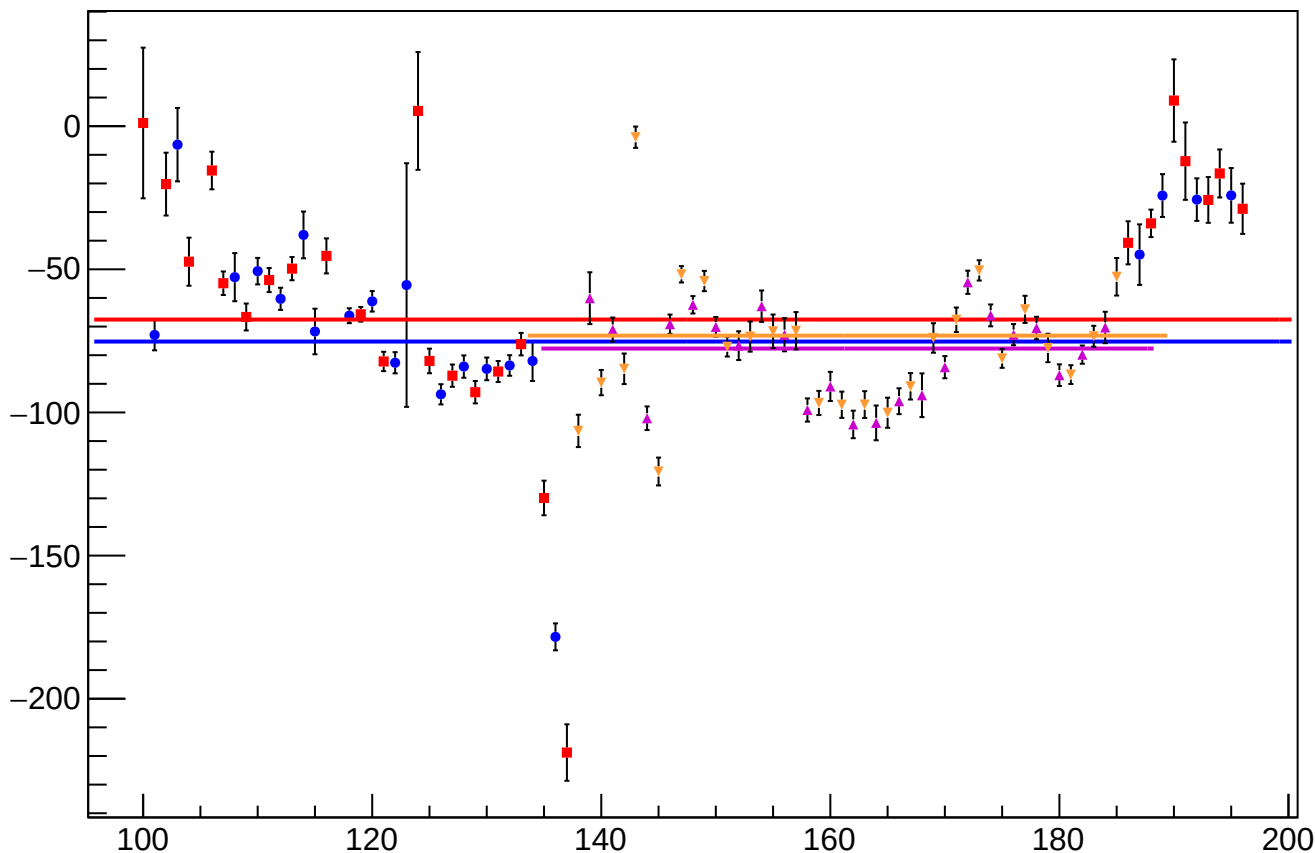
Right: -188.740 ± 0.858 $\chi^2/\text{NDF}: 5126.3/46$

In: -169.870 ± 0.807 $\chi^2/\text{NDF}: 3683.0/43$

Out: -168.434 ± 0.723 $\chi^2/\text{NDF}: 7438.7/50$

All: -169.073 ± 0.538 $\chi^2/\text{NDF}: 11123.4/94$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.233 ± 1.050 $\chi^2/\text{NDF}: 785.9/20$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -67.549 ± 0.993 $\chi^2/\text{NDF}: 818.4/25$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

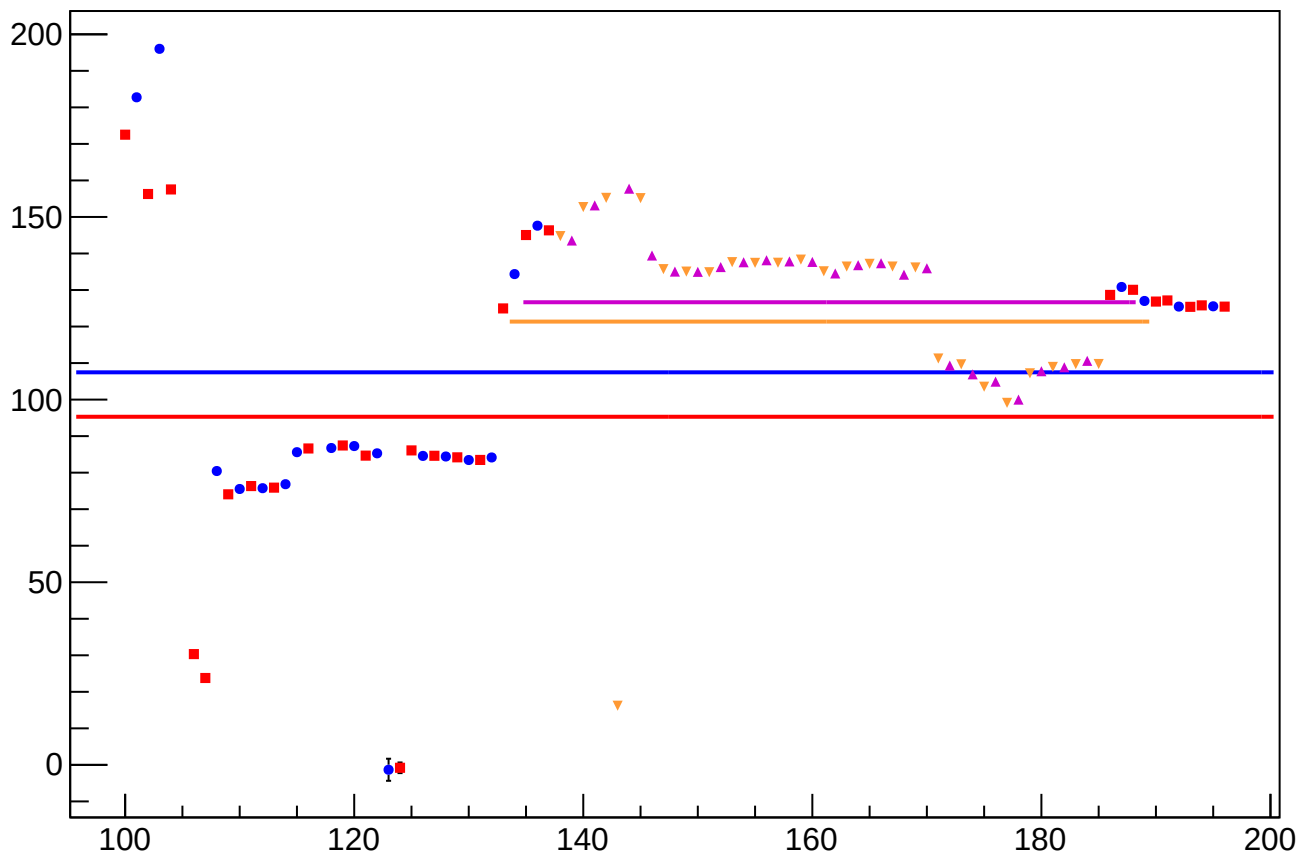
Right: -71.175 ± 0.721 $\chi^2/\text{NDF}: 1632.5/46$

In: -76.665 ± 0.676 $\chi^2/\text{NDF}: 1037.3/43$

Out: -70.785 ± 0.646 $\chi^2/\text{NDF}: 1625.4/50$

All: -73.594 ± 0.467 $\chi^2/\text{NDF}: 2702.3/94$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 107.467 $\pm$ 0.065 χ^2 /NDF: 290373.3/20

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 95.303 $\pm$ 0.055 χ^2 /NDF: 528161.4/25

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

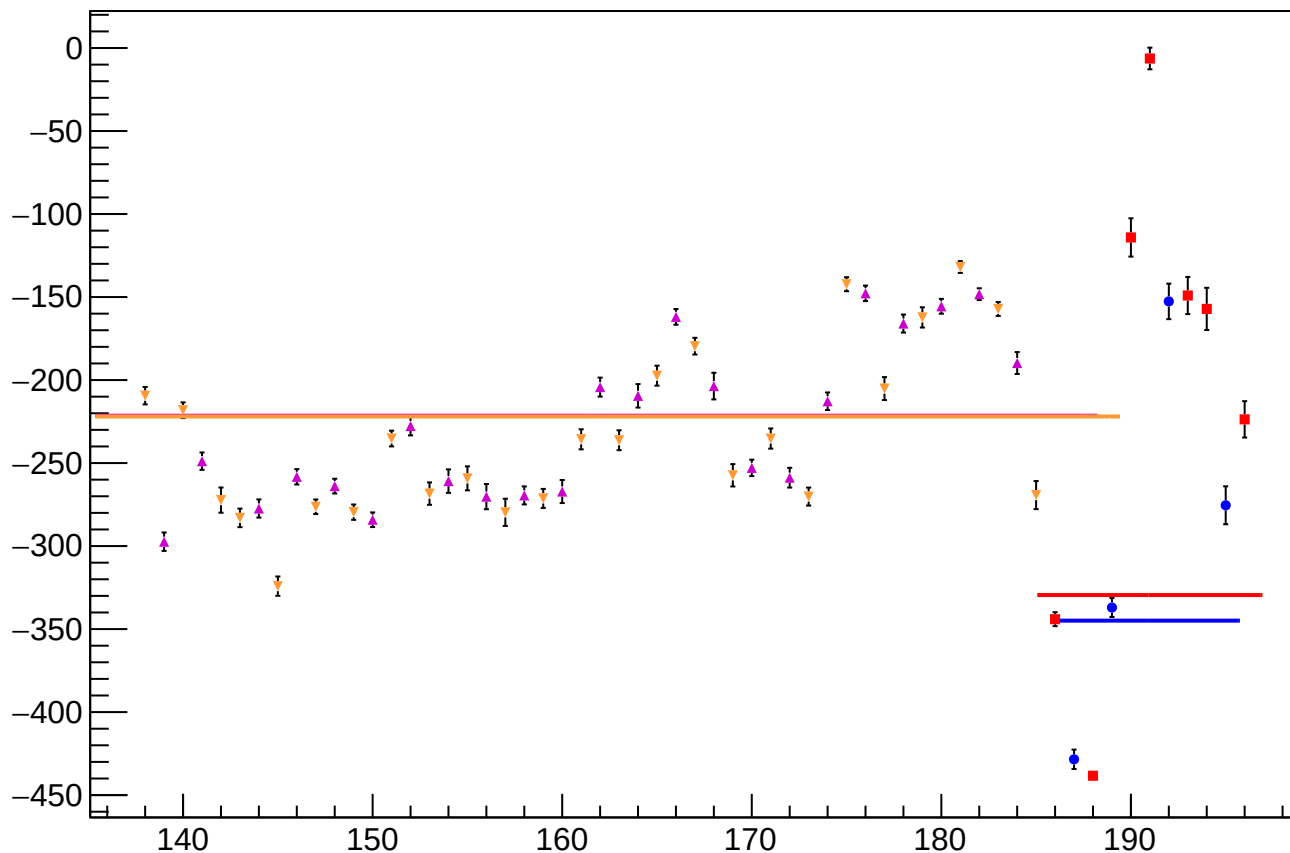
Right: 100.473 $\pm$ 0.042 χ^2 /NDF: 838978.5/46

In: 121.119 $\pm$ 0.035 χ^2 /NDF: 516349.4/43

Out: 112.352 $\pm$ 0.033 χ^2 /NDF: 1154544.2/50

All: 116.469 $\pm$ 0.024 χ^2 /NDF: 1704845.5/94

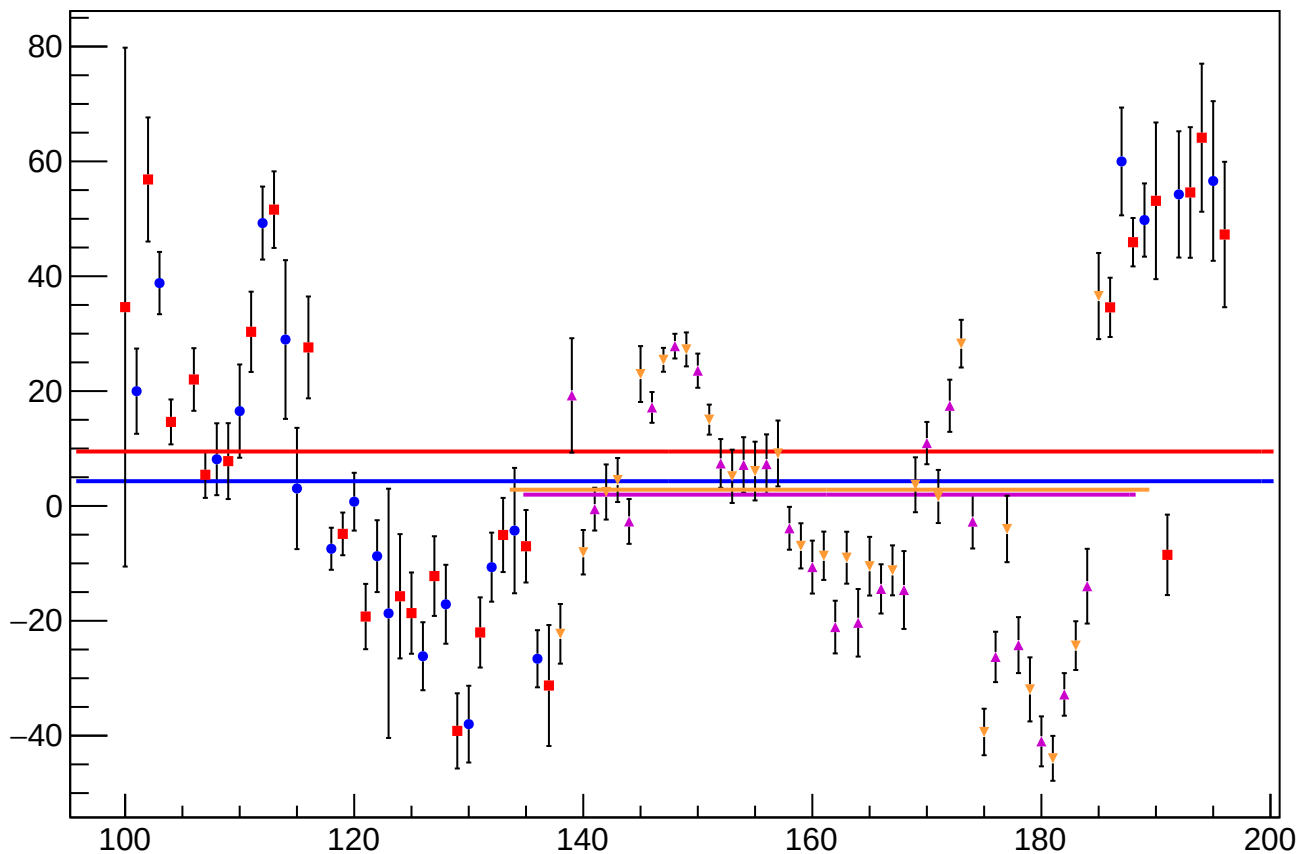
reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -344.912+/-3.612 χ^2/NDF : 567.0/3
 Left Out: -221.934+/-1.084 χ^2/NDF : 2578.4/24
 Right Out: -329.501+/-2.139 χ^2/NDF : 4641.7/6
 Left In: -221.483+/-1.102 χ^2/NDF : 2149.8/22

Left: -221.712+/-0.773 χ^2/NDF : 4728.2/47
 Right: -333.502+/-1.841 χ^2/NDF : 5222.2/10
 In: -231.997+/-1.054 χ^2/NDF : 3785.0/26
 Out: -243.928+/-0.967 χ^2/NDF : 9231.9/31
 All: -238.475+/-0.713 χ^2/NDF : 13086.4/58

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.310 ± 1.456 $\chi^2/\text{NDF}: 359.7/20$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 9.480 ± 1.241 $\chi^2/\text{NDF}: 418.6/25$

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: 7.304 ± 0.945 $\chi^2/\text{NDF}: 785.6/46$

In: 2.548 ± 0.724 $\chi^2/\text{NDF}: 950.7/43$

Out: 4.807 ± 0.677 $\chi^2/\text{NDF}: 1125.7/50$

All: 3.754 ± 0.494 $\chi^2/\text{NDF}: 2081.6/94$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 370.310 $\pm$ 2.046 χ^2 /NDF: 3142.4/20

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 347.568 $\pm$ 1.452 χ^2 /NDF: 9075.1/25

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

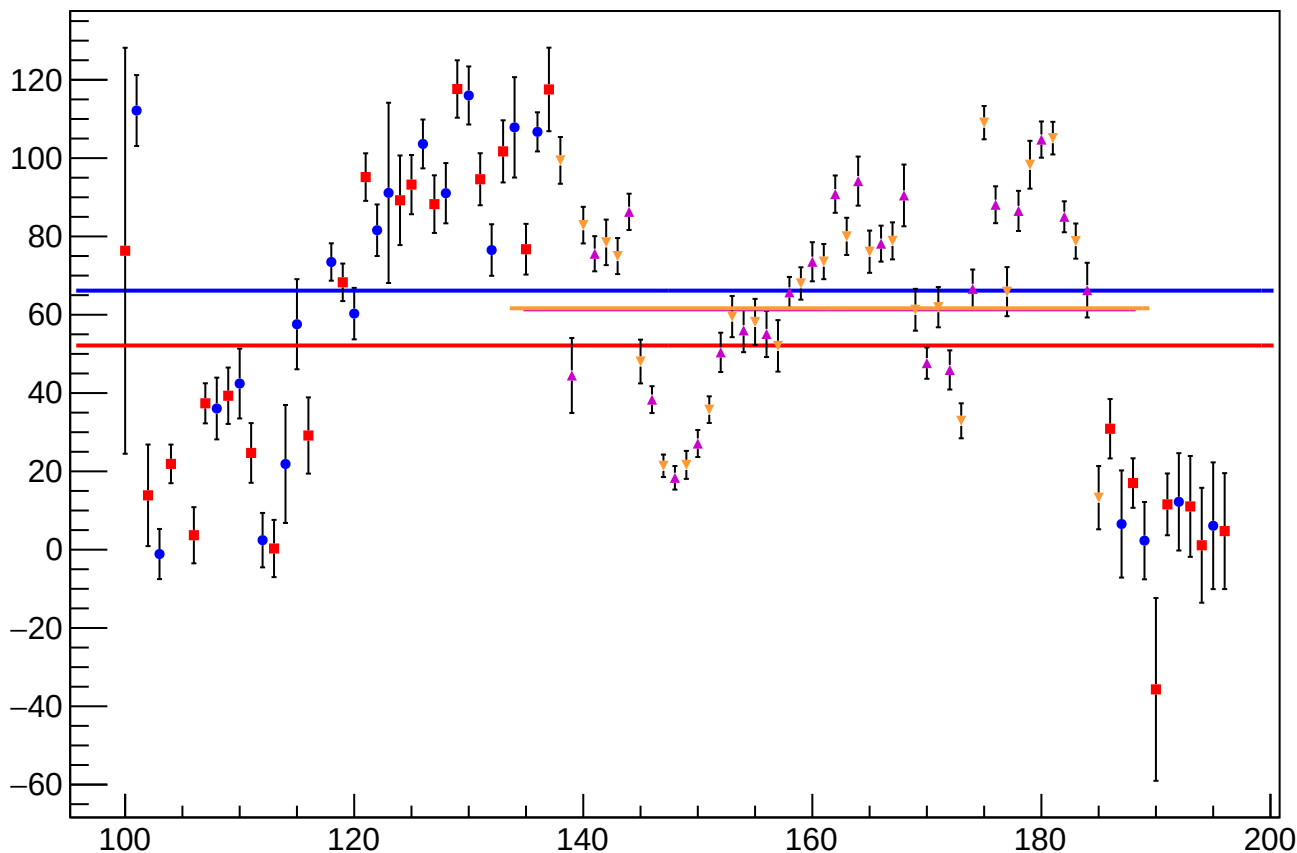
Right: 355.184 $\pm$ 1.184 χ^2 /NDF: 12299.6/46

In: 271.570 $\pm$ 0.965 χ^2 /NDF:8372.6/43

Out: 281.736 $\pm$ 0.868 χ^2 /NDF:14869.5/50

All: 277.189 $\pm$ 0.645 χ^2 /NDF: 23303.4/94

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 66.160 $\pm$ 1.701 χ^2 /NDF: 525.0/20

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 52.147 $\pm$ 1.490 χ^2 /NDF: 621.6/25

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

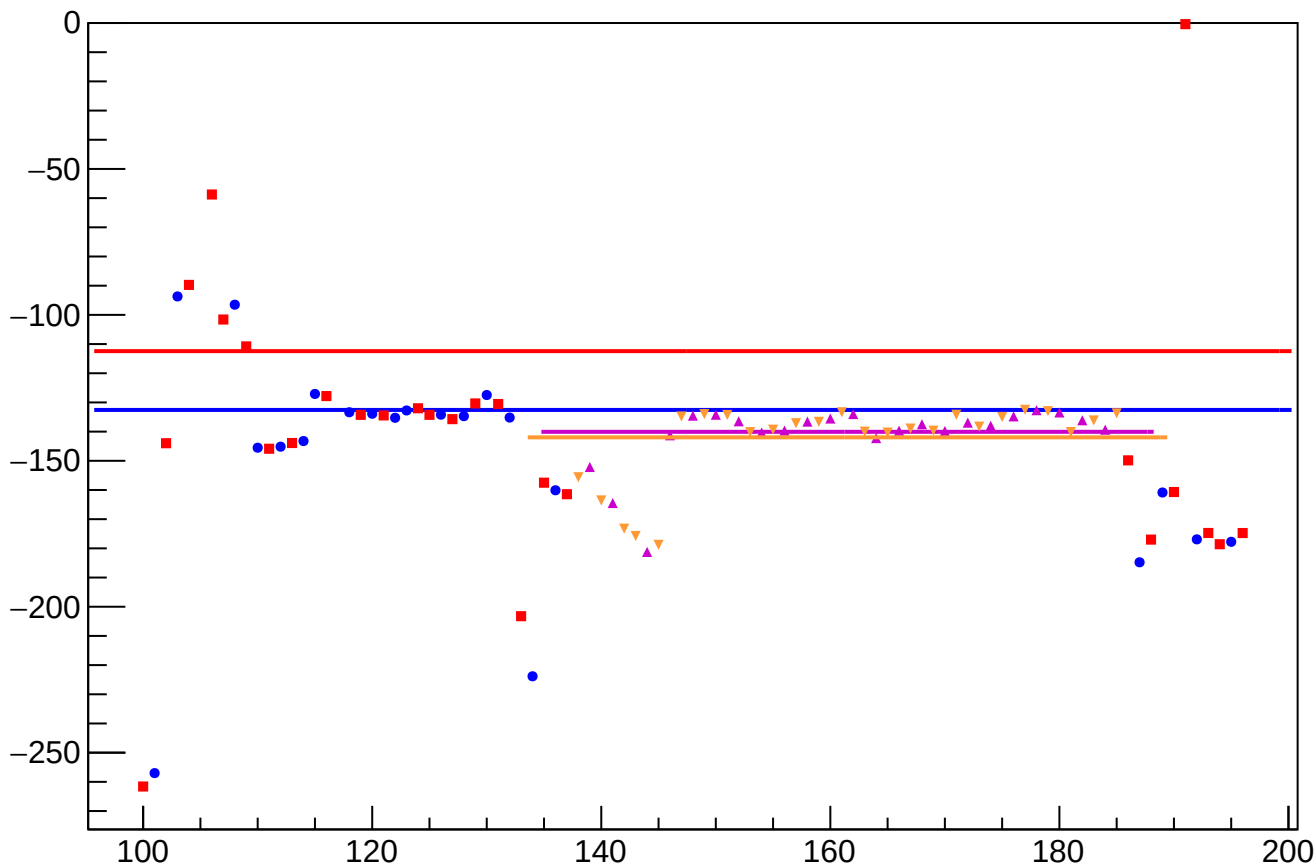
Right: 58.233 $\pm$ 1.121 χ^2 /NDF: 1185.1/46

In: 62.534 $\pm$ 0.837 χ^2 /NDF:1230.7/43

Out: 58.959 $\pm$ 0.793 χ^2 /NDF:1522.3/50

All: 60.650 $\pm$ 0.575 χ^2 /NDF: 2762.6/94

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -132.570 ± 0.084 $\chi^2/\text{NDF}: 200032.7/20$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -112.425 ± 0.071 $\chi^2/\text{NDF}: 550864.4/25$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

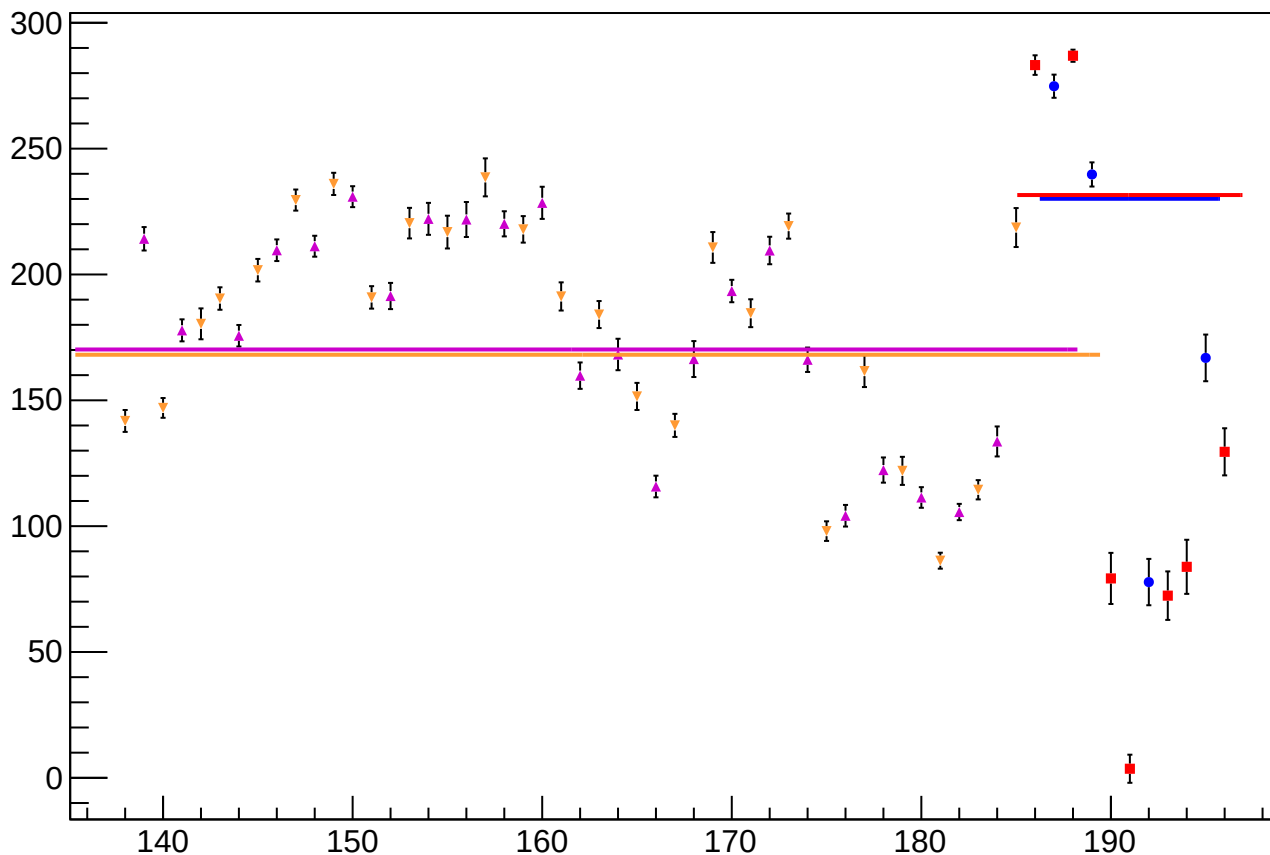
Right: -120.812 ± 0.054 $\chi^2/\text{NDF}: 784188.9/46$

In: -138.407 ± 0.040 $\chi^2/\text{NDF}: 254214.0/43$

Out: -133.623 ± 0.038 $\chi^2/\text{NDF}: 754515.7/50$

All: -135.902 ± 0.027 $\chi^2/\text{NDF}: 1016332.1/94$

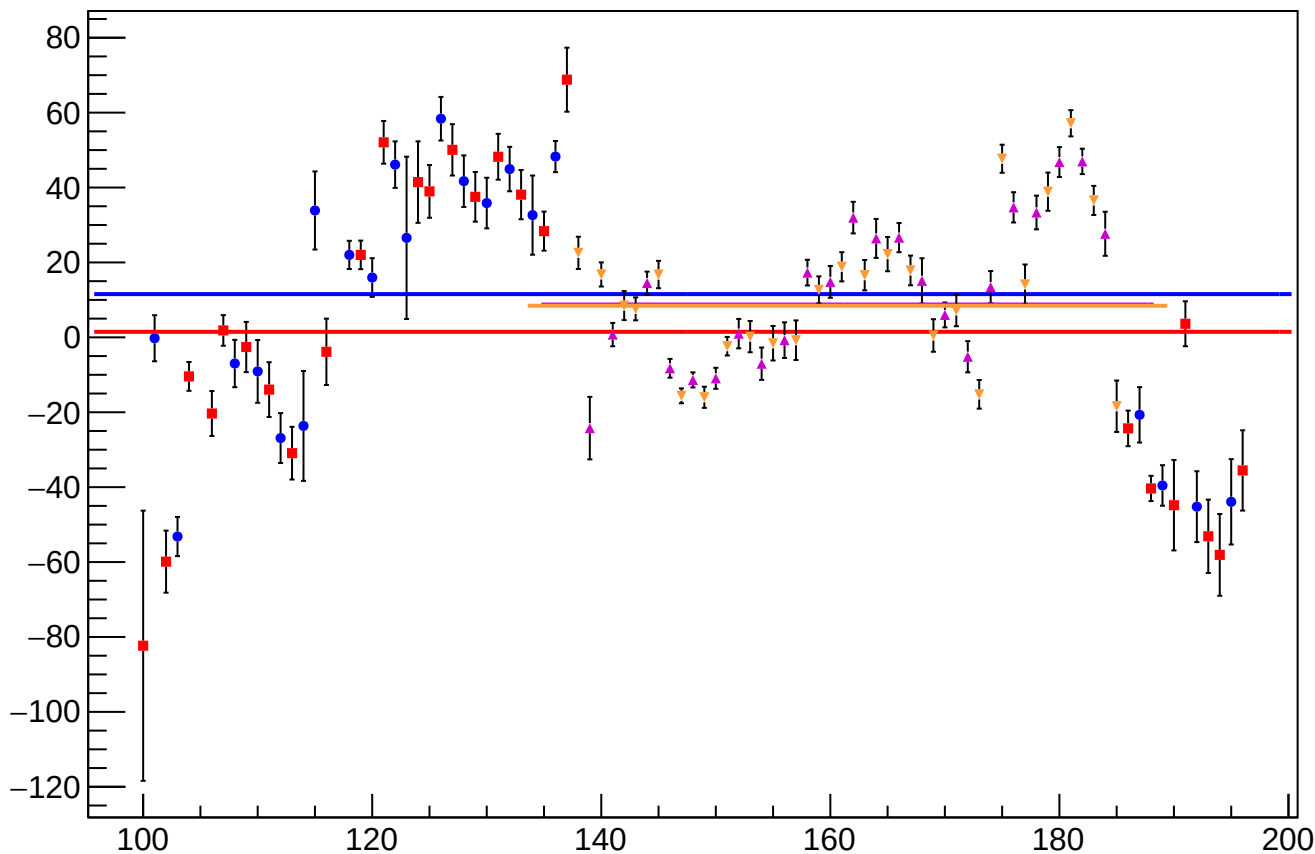
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 230.078 $\pm$ 2.961 χ^2 /NDF: 418.5/3
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 231.563 $\pm$ 1.793 χ^2 /NDF: 3175.8/6
 Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47
 Right: 231.165 $\pm$ 1.534 χ^2 /NDF: 3594.5/10
 In: 176.278 $\pm$ 0.943 χ^2 /NDF:2810.5/26
 Out: 182.475 $\pm$ 0.853 χ^2 /NDF:6613.1/31
 All: 179.686 $\pm$ 0.633 χ^2 /NDF: 9447.3/58

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.541 ± 1.395 χ^2/NDF : 633.3/20

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: 1.481 ± 1.186 χ^2/NDF : 787.7/25

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

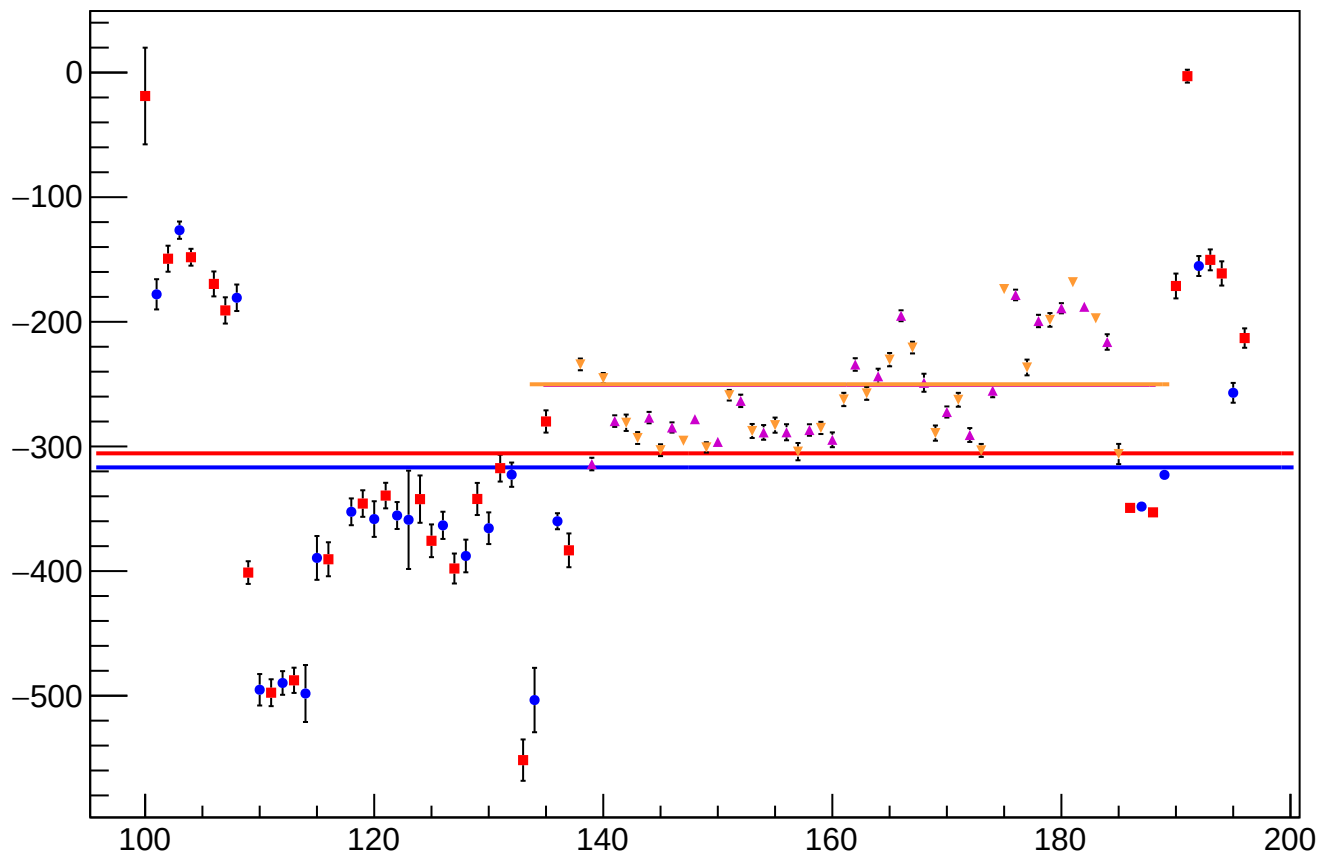
Right: 5.702 ± 0.904 χ^2/NDF : 1451.1/46

In: 9.401 ± 0.666 χ^2/NDF : 1263.1/43

Out: 6.532 ± 0.620 χ^2/NDF : 1564.7/50

All: 7.865 ± 0.454 χ^2/NDF : 2837.7/94

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -316.801 ± 1.816 $\chi^2/\text{NDF}: 2387.8/20$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -305.529 ± 1.273 $\chi^2/\text{NDF}: 7410.6/25$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

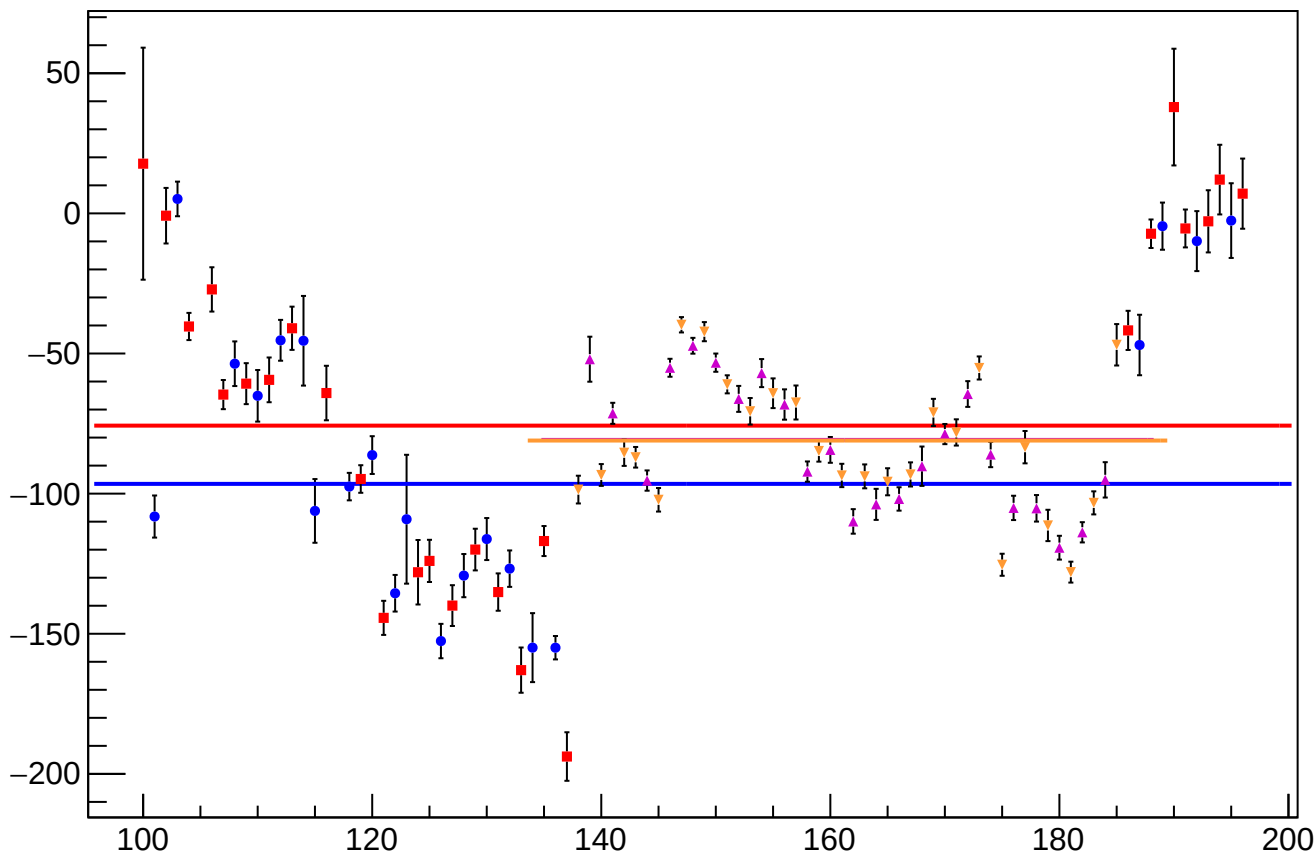
Right: -309.244 ± 1.043 $\chi^2/\text{NDF}: 9824.3/46$

In: -265.796 ± 0.870 $\chi^2/\text{NDF}: 5348.2/43$

Out: -270.527 ± 0.773 $\chi^2/\text{NDF}: 10853.7/50$

All: -268.439 ± 0.578 $\chi^2/\text{NDF}: 16218.5/94$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -96.518 $\pm$ 1.629 χ^2 /NDF: 1017.1/20

Left Out: -81.057 $\pm$ 0.843 χ^2 /NDF: 913.0/24

Right Out: -75.734 $\pm$ 1.430 χ^2 /NDF: 1426.1/25

Left In: -80.834 $\pm$ 0.872 χ^2 /NDF: 693.1/22

Left: -80.949 $\pm$ 0.606 χ^2 /NDF: 1606.2/47

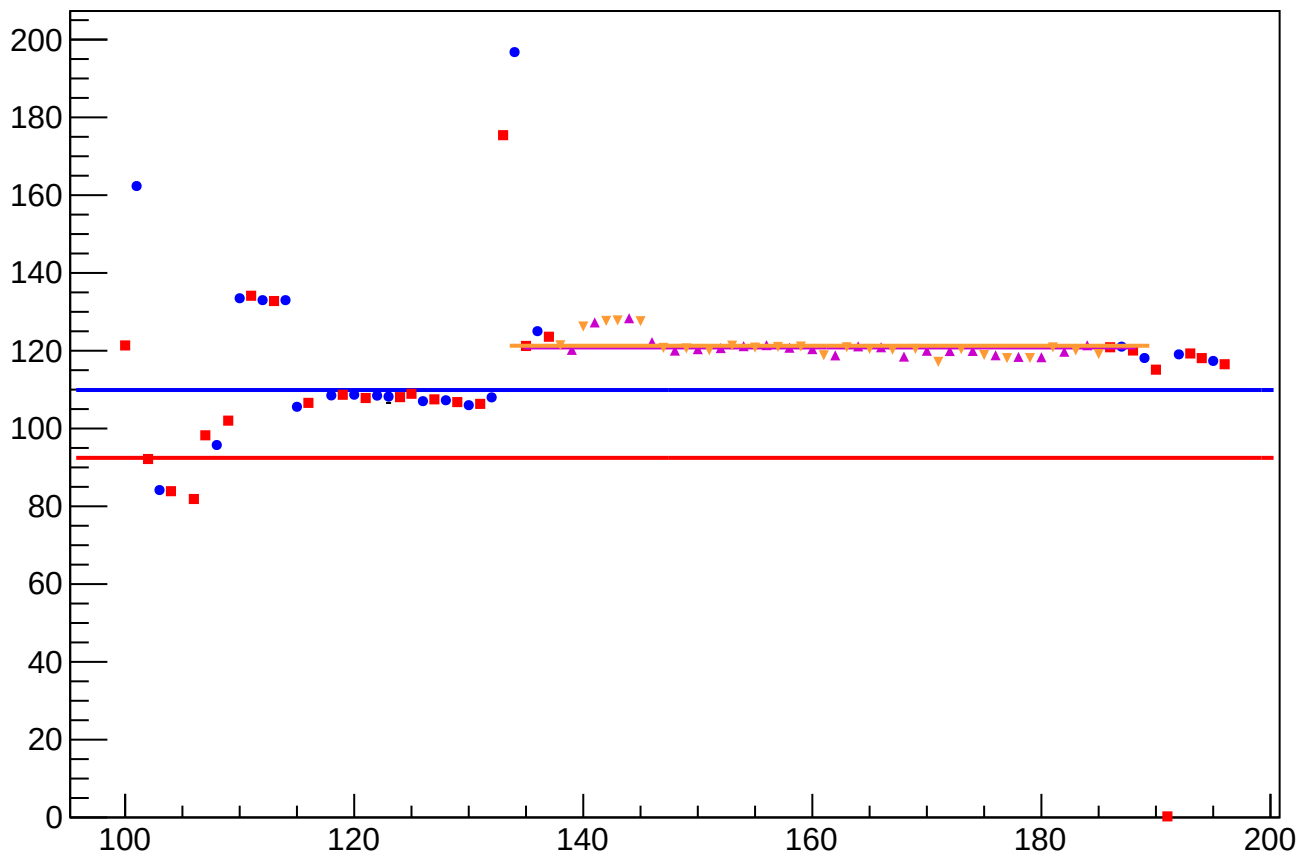
Right: -84.781 $\pm$ 1.075 χ^2 /NDF: 2535.2/46

In: -84.326 $\pm$ 0.769 χ^2 /NDF: 1782.3/43

Out: -79.684 $\pm$ 0.726 χ^2 /NDF: 2349.5/50

All: -81.874 $\pm$ 0.528 χ^2 /NDF: 4151.0/94

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 109.900 $\pm$ 0.079 χ^2 /NDF: 75329.8/20

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF:4939.3/24

Right Out: 92.459 $\pm$ 0.066 χ^2 /NDF: 345826.1/25

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

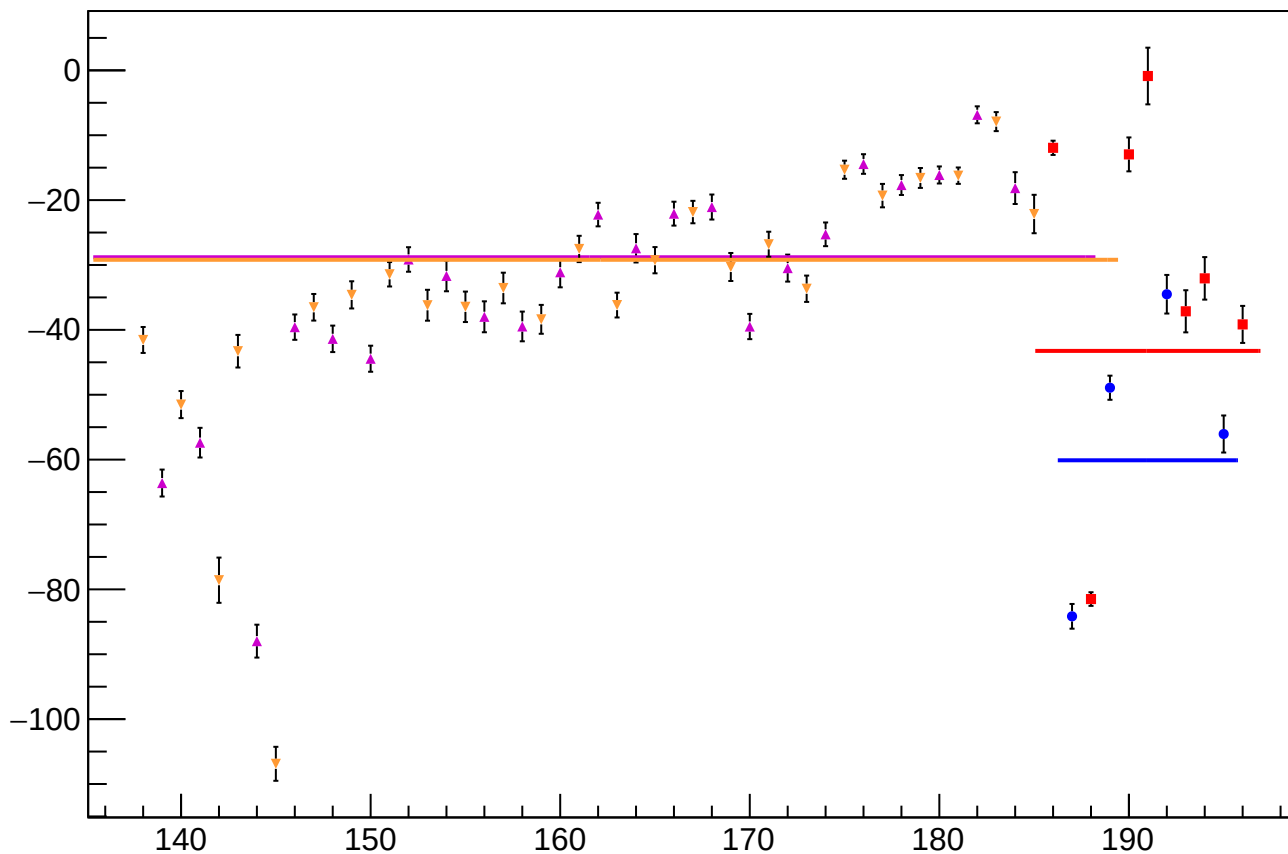
Right: 99.666 $\pm$ 0.051 χ^2 /NDF: 449911.5/46

In: 118.538 $\pm$ 0.036 χ^2 /NDF:93927.6/43

Out: 113.531 $\pm$ 0.034 χ^2 /NDF:489709.6/50

All: 115.902 $\pm$ 0.025 χ^2 /NDF: 593735.8/94

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected

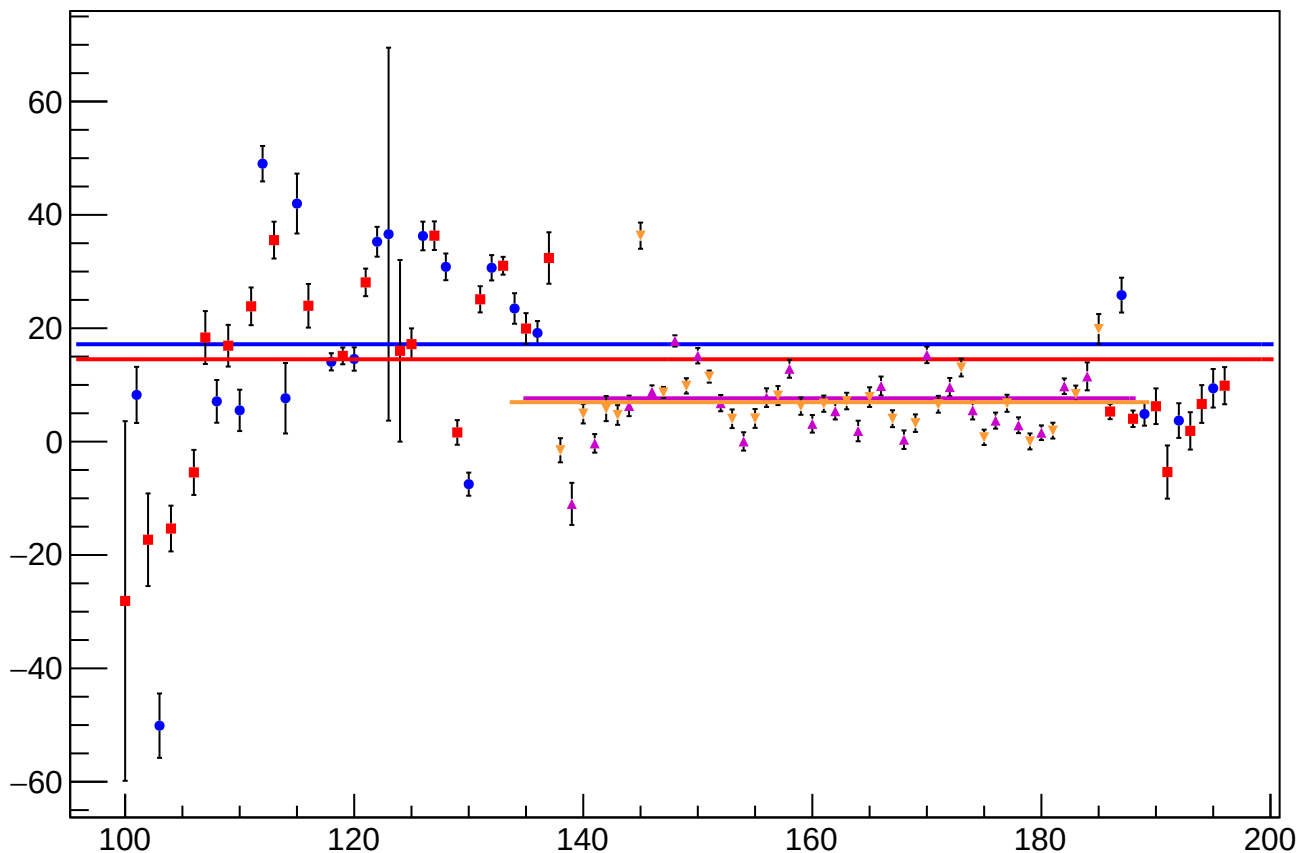


Right In: -60.104 ± 1.118 $\chi^2/\text{NDF}: 271.4/3$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -43.243 ± 0.667 $\chi^2/\text{NDF}: 2387.2/6$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$
 Right: -47.670 ± 0.573 $\chi^2/\text{NDF}: 2826.3/10$
 In: -32.288 ± 0.373 $\chi^2/\text{NDF}: 2731.7/26$
 Out: -32.757 ± 0.336 $\chi^2/\text{NDF}: 4599.6/31$

All: -32.547 ± 0.249 $\chi^2/\text{NDF}: 7332.1/58$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.177 ± 0.590 χ^2/NDF : 691.4/20

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 14.527 ± 0.509 χ^2/NDF : 592.7/25

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

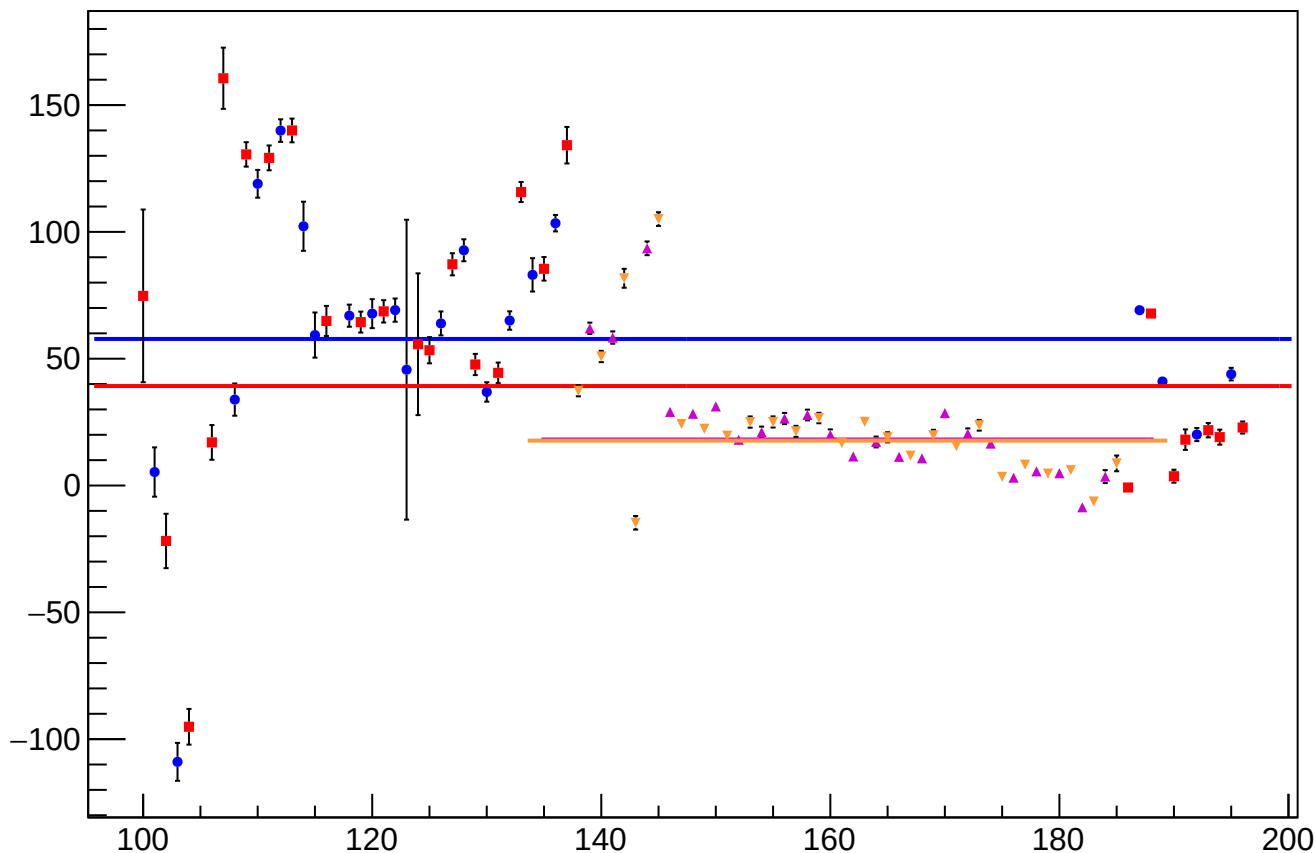
Right: 15.658 ± 0.385 χ^2/NDF : 1295.8/46

In: 9.738 ± 0.277 χ^2/NDF : 1233.0/43

Out: 8.940 ± 0.260 χ^2/NDF : 1077.3/50

All: 9.315 ± 0.190 χ^2/NDF : 2314.7/94

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 57.791 ± 0.751 $\chi^2/\text{NDF}: 1764.0/20$

Left Out: 17.705 ± 0.387 $\chi^2/\text{NDF}: 2432.2/24$

Right Out: 39.214 ± 0.500 $\chi^2/\text{NDF}: 6127.2/25$

Left In: 18.150 ± 0.393 $\chi^2/\text{NDF}: 2339.4/22$

Left: 17.924 ± 0.276 $\chi^2/\text{NDF}: 4772.2/47$

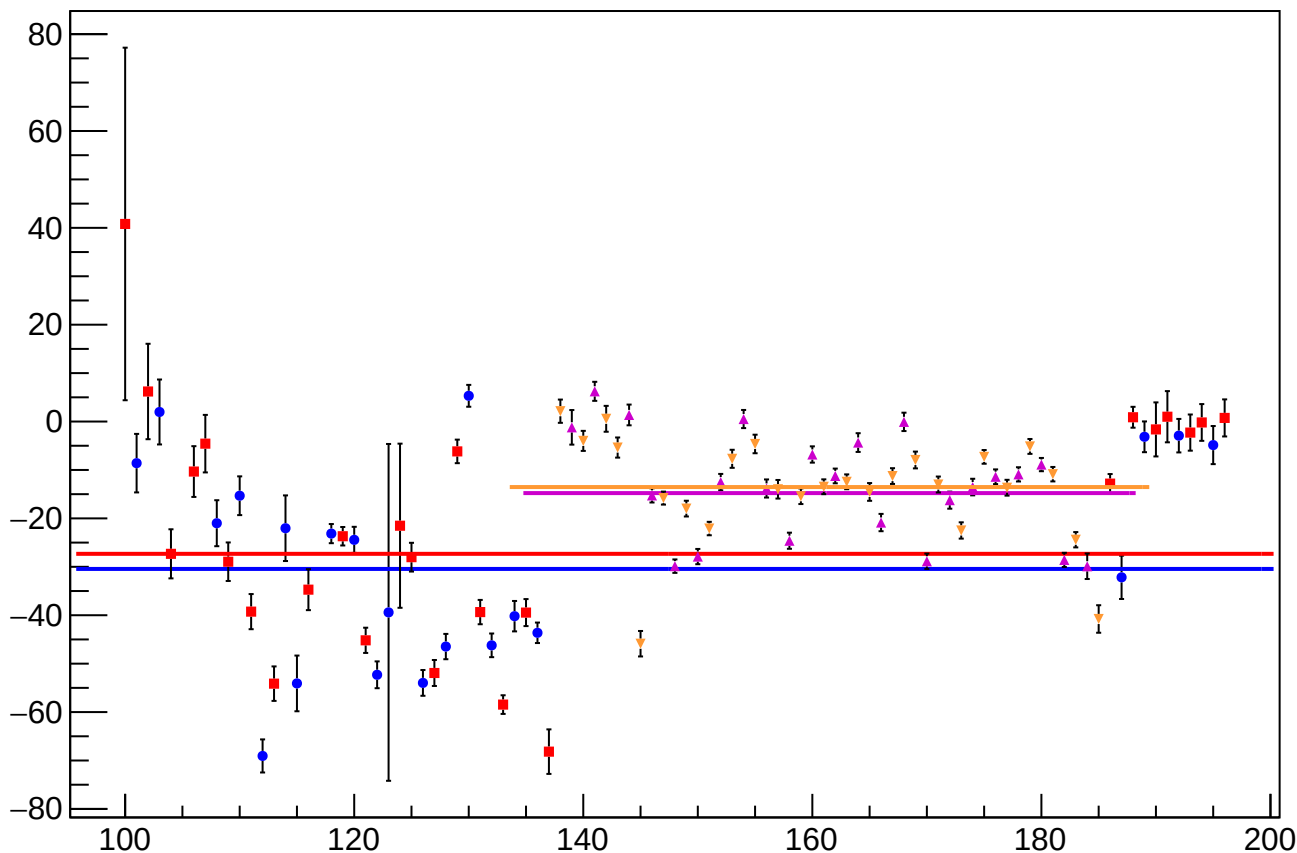
Right: 44.931 ± 0.416 $\chi^2/\text{NDF}: 8315.3/46$

In: 26.665 ± 0.348 $\chi^2/\text{NDF}: 6293.6/43$

Out: 25.761 ± 0.306 $\chi^2/\text{NDF}: 9715.0/50$

All: 26.156 ± 0.230 $\chi^2/\text{NDF}: 16012.4/94$

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.439 ± 0.691 $\chi^2/\text{NDF}: 918.3/20$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -27.319 ± 0.622 $\chi^2/\text{NDF}: 1128.2/25$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

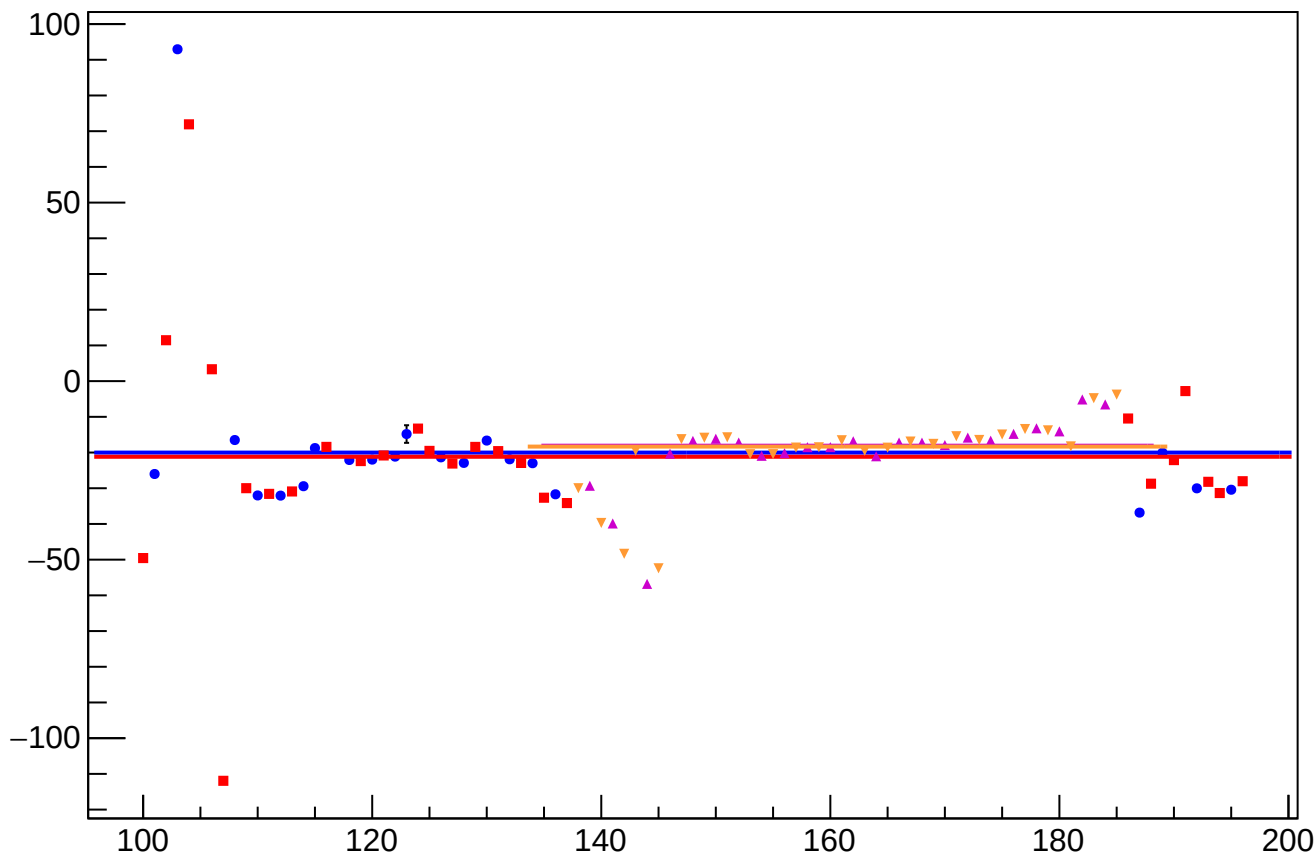
Right: -28.714 ± 0.462 $\chi^2/\text{NDF}: 2057.8/46$

In: -18.034 ± 0.315 $\chi^2/\text{NDF}: 2163.0/43$

Out: -16.764 ± 0.301 $\chi^2/\text{NDF}: 2077.6/50$

All: -17.370 ± 0.218 $\chi^2/\text{NDF}: 4249.1/94$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.014 $\pm$ 0.037 χ^2/NDF : 501431.2/20

Left Out: -18.334 $\pm$ 0.016 χ^2/NDF : 284152.1/24

Right Out: -21.186 $\pm$ 0.033 χ^2/NDF : 478715.0/25

Left In: -18.083 $\pm$ 0.016 χ^2/NDF : 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2/NDF : 526224.9/47

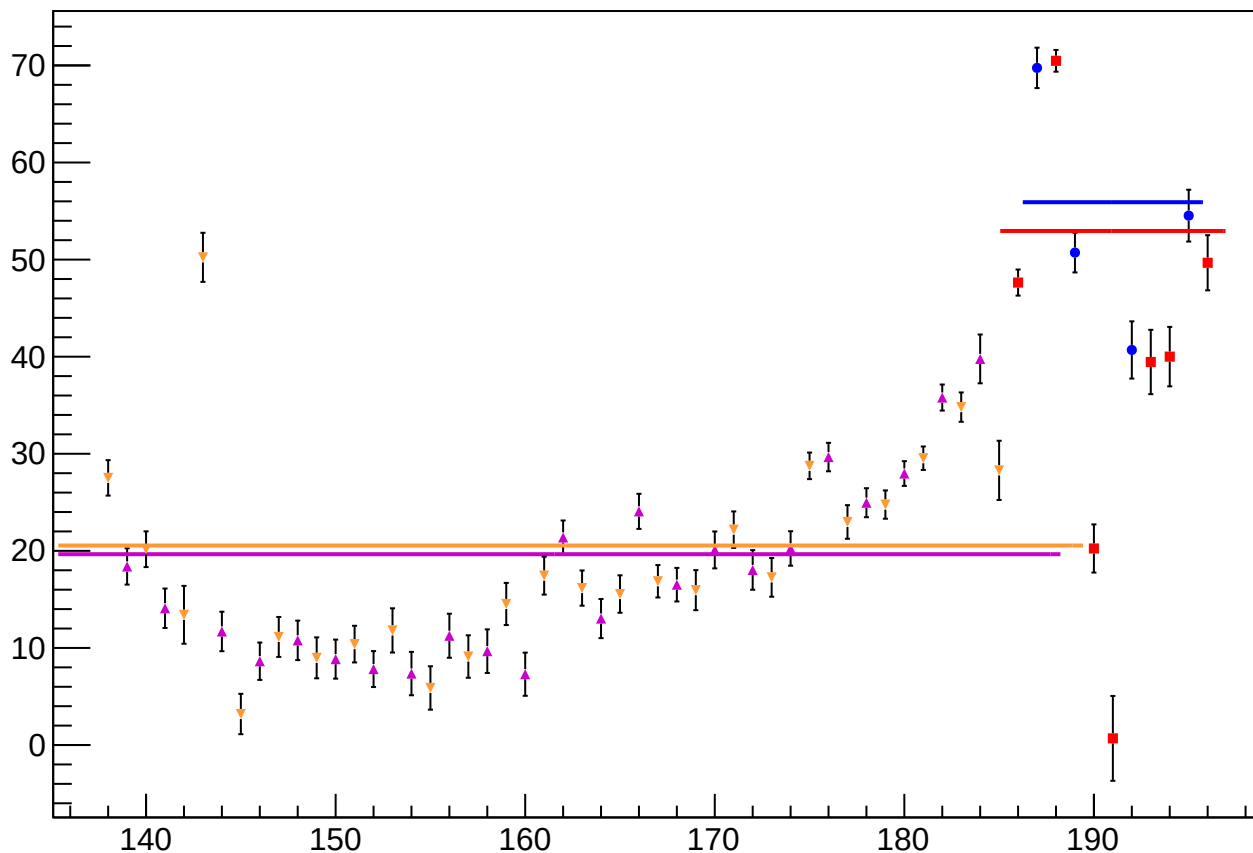
Right: -20.674 $\pm$ 0.025 χ^2/NDF : 980703.5/46

In: -18.387 $\pm$ 0.015 χ^2/NDF : 745643.0/43

Out: -18.873 $\pm$ 0.014 χ^2/NDF : 768993.6/50

All: -18.638 $\pm$ 0.010 χ^2/NDF : 1515198.3/94

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 55.912 $\pm$ 1.174 χ^2 /NDF: 77.5/3

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 52.948 $\pm$ 0.727 χ^2 /NDF: 614.0/6

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

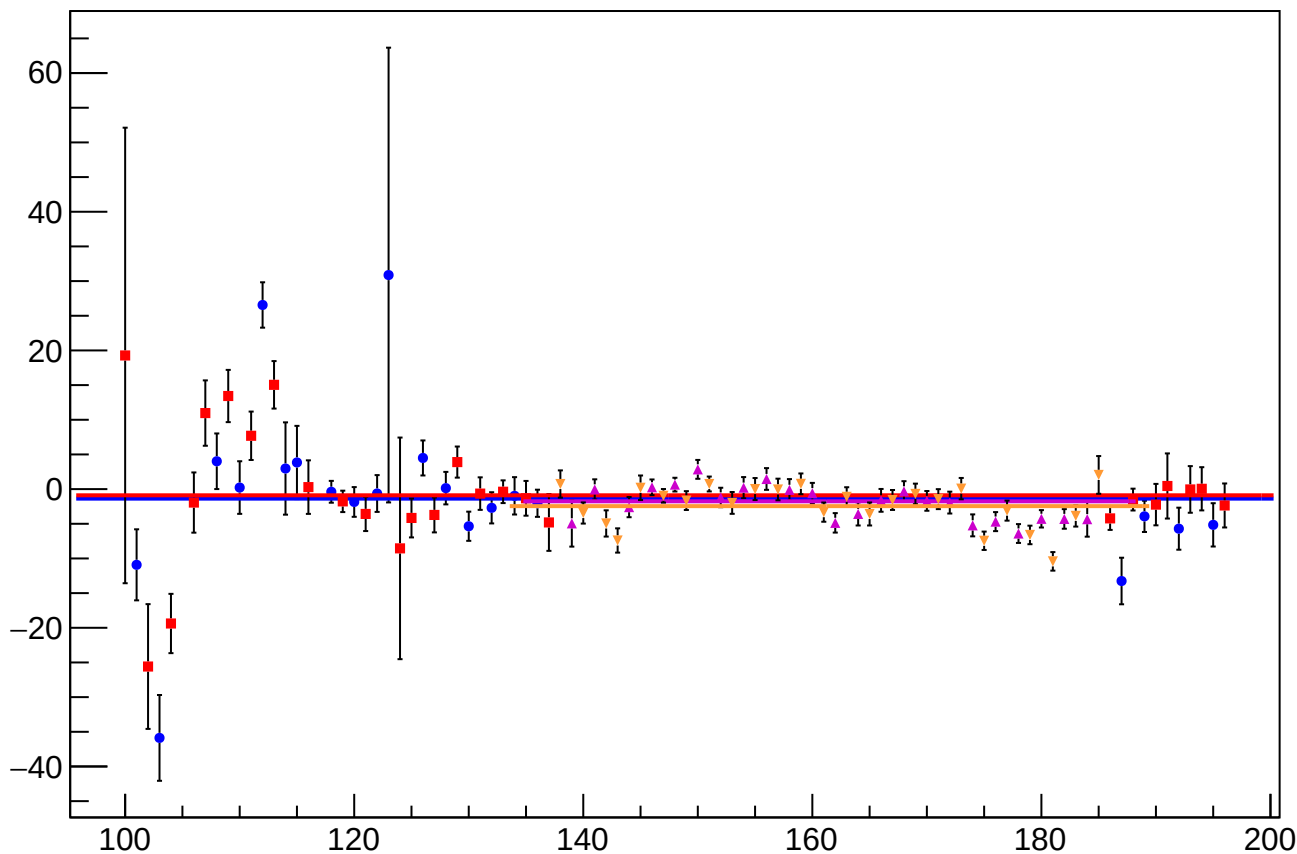
Right: 53.770 $\pm$ 0.618 χ^2 /NDF: 696.1/10

In: 23.102 $\pm$ 0.362 χ^2 /NDF: 1512.8/26

Out: 27.299 $\pm$ 0.332 χ^2 /NDF: 2811.3/31

All: 25.381 $\pm$ 0.245 χ^2 /NDF: 4397.2/58

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.372 ± 0.601 χ^2/NDF : 139.5/20

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -0.892 ± 0.532 χ^2/NDF : 90.0/25

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

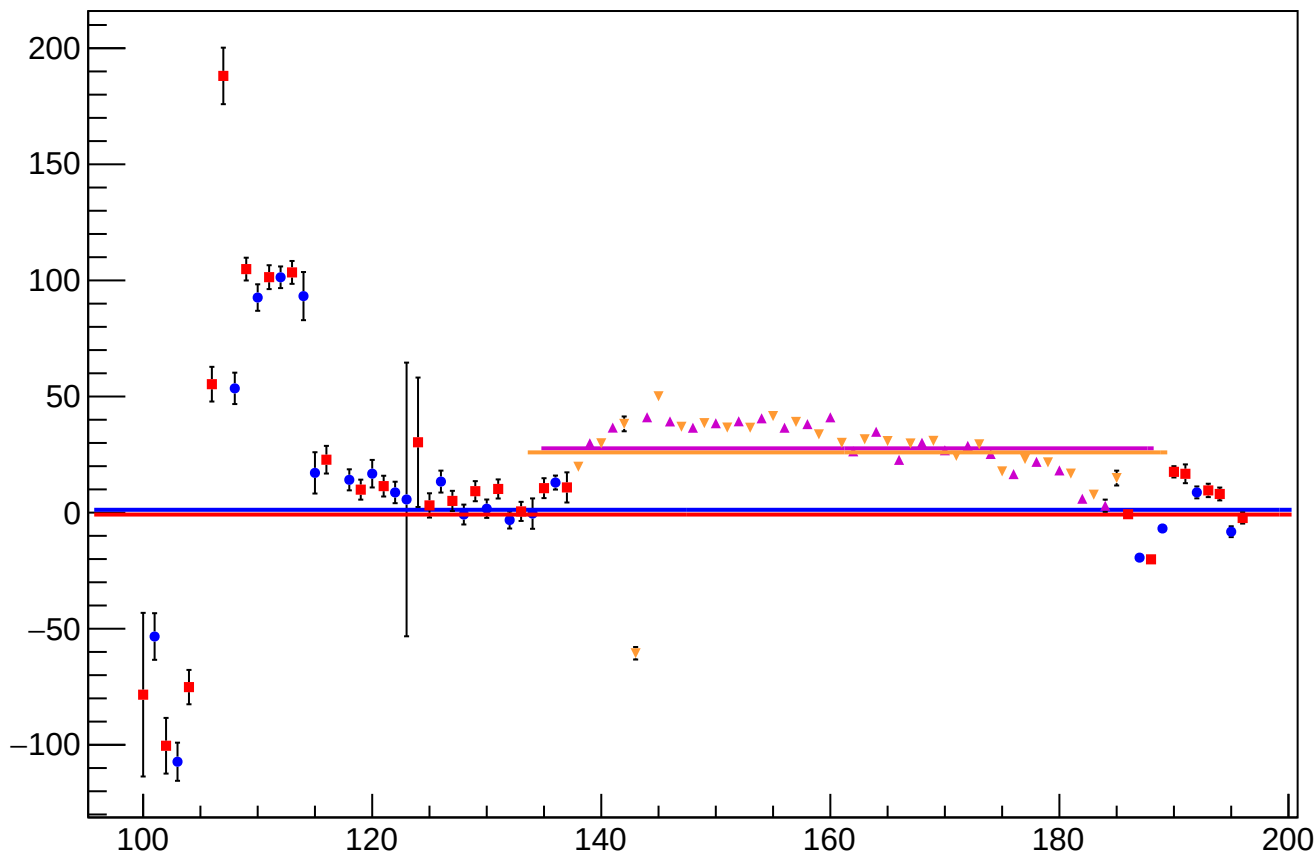
Right: -1.103 ± 0.398 χ^2/NDF : 229.8/46

In: -1.680 ± 0.270 χ^2/NDF : 207.2/43

Out: -2.093 ± 0.256 χ^2/NDF : 202.6/50

All: -1.897 ± 0.186 χ^2/NDF : 411.1/94

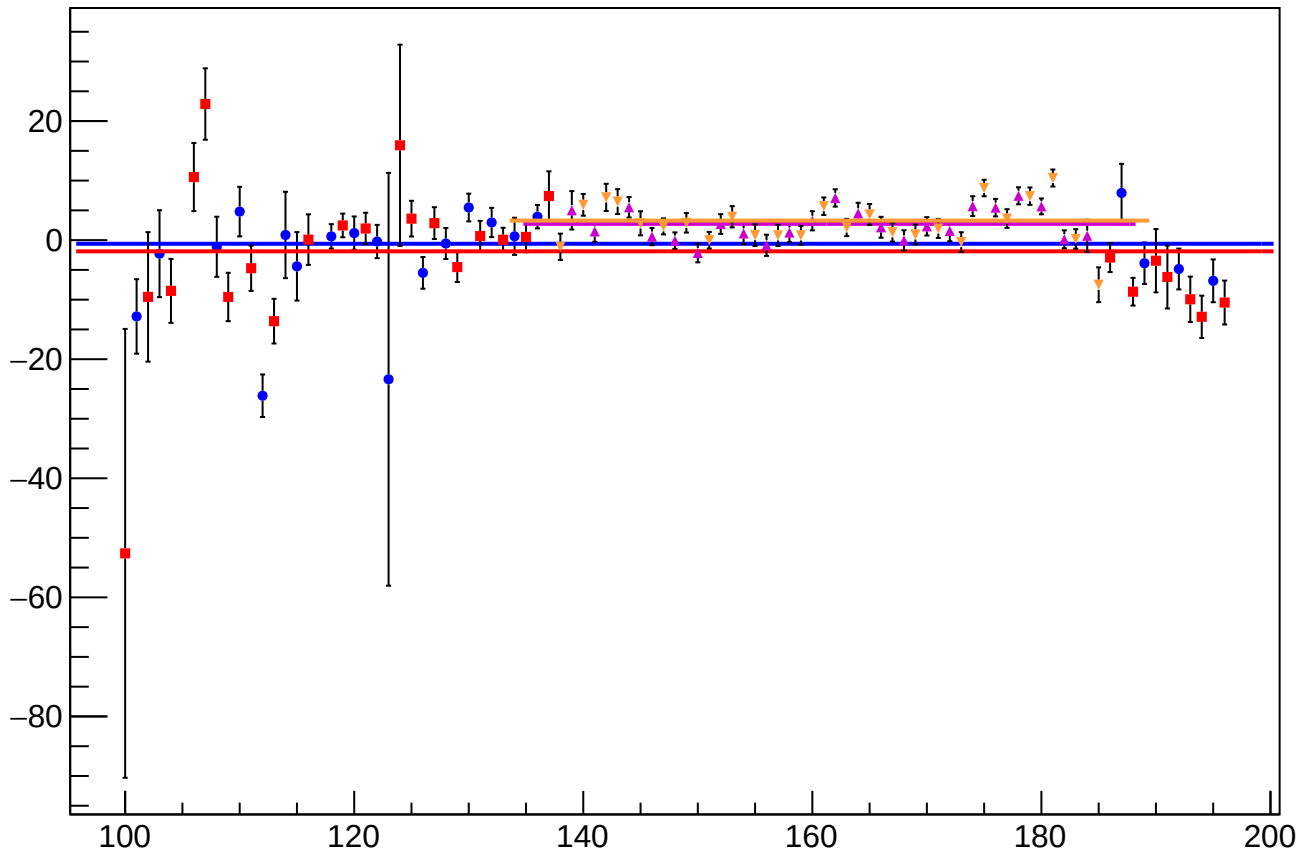
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.217 $\pm$ 0.779 χ^2 /NDF: 1296.0/20
 Left Out: 25.938 $\pm$ 0.372 χ^2 /NDF:1711.6/24
 Right Out: -0.833 $\pm$ 0.543 χ^2 /NDF: 2393.4/25
 Left In: 27.677 $\pm$ 0.378 χ^2 /NDF:803.9/22

Left: 26.794 $\pm$ 0.265 χ^2 /NDF: 2526.2/47
 Right: -0.163 $\pm$ 0.445 χ^2 /NDF: 3694.0/46
 In: 22.634 $\pm$ 0.340 χ^2 /NDF:3032.6/43
 Out: 17.372 $\pm$ 0.307 χ^2 /NDF:5759.2/50
 All: 19.733 $\pm$ 0.228 χ^2 /NDF: 8923.6/94

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.611 ± 0.698 χ^2/NDF : 84.4/20

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -1.879 ± 0.642 χ^2/NDF : 92.1/25

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

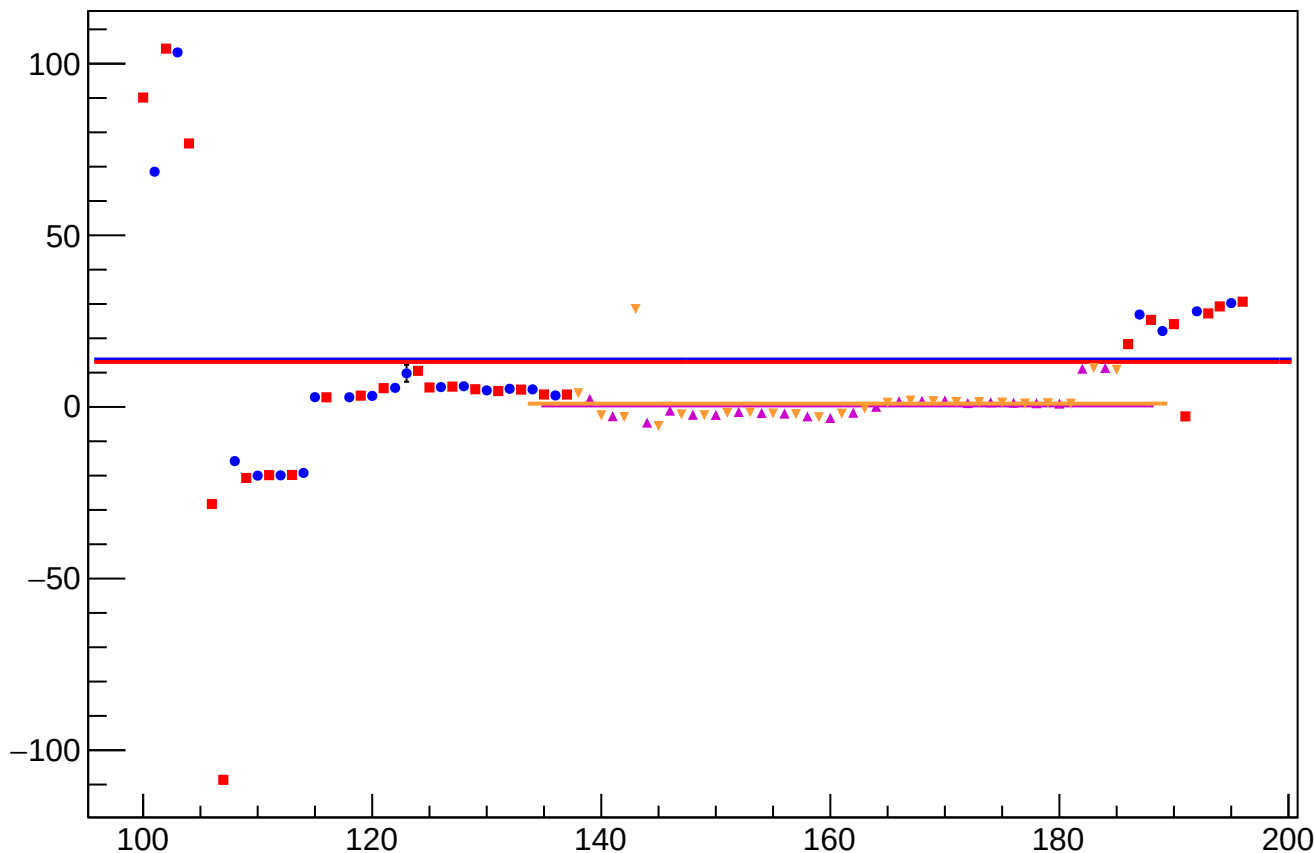
Right: -1.298 ± 0.473 χ^2/NDF : 178.3/46

In: 2.093 ± 0.307 χ^2/NDF : 167.5/43

Out: 2.198 ± 0.295 χ^2/NDF : 245.4/50

All: 2.147 ± 0.212 χ^2/NDF : 412.9/94

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 13.824+/-0.037 χ^2/NDF : 421438.9/20

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 13.122+/-0.033 χ^2/NDF : 645802.8/25

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

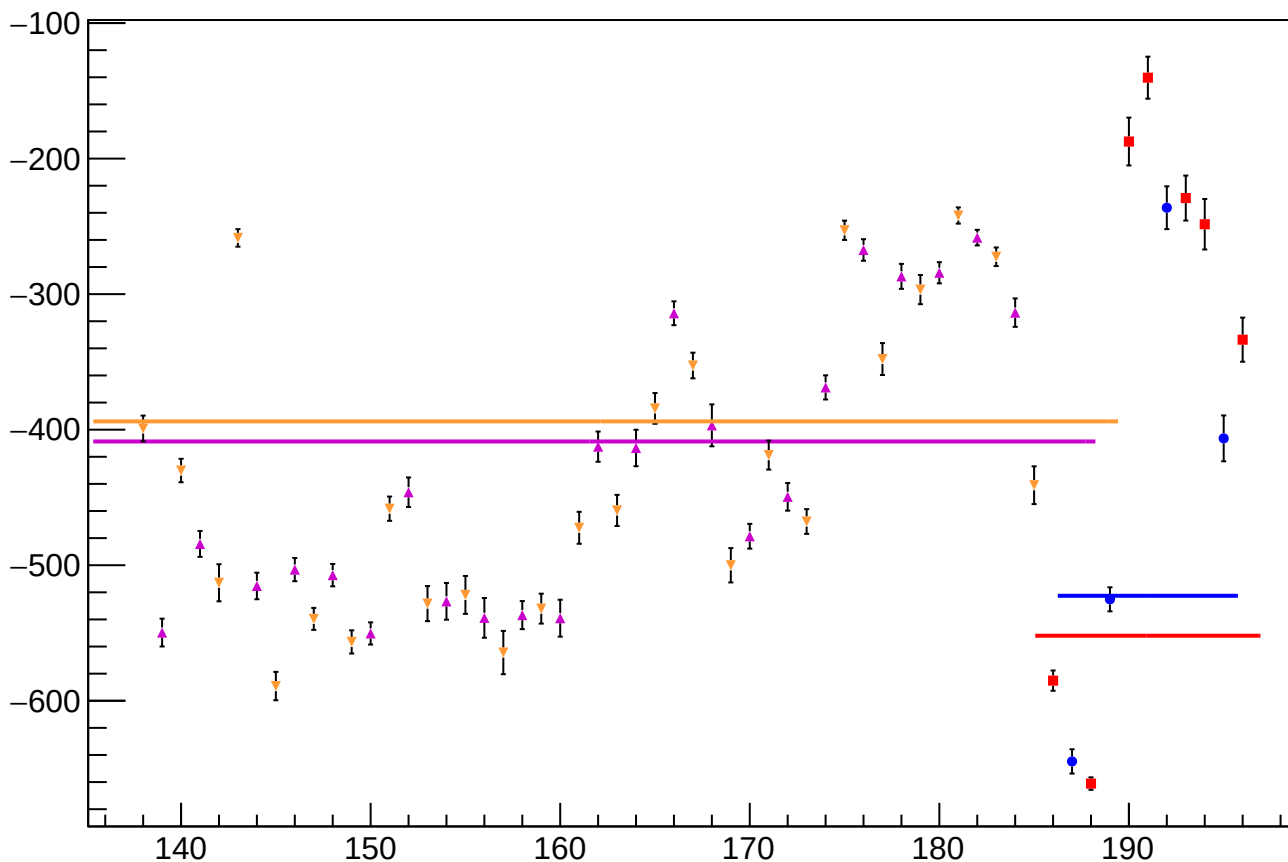
Right: 13.433+/-0.025 χ^2/NDF : 1067441.6/46

In: 2.431+/-0.014 χ^2/NDF : 583324.7/43

Out: 3.094+/-0.014 χ^2/NDF : 874464.1/50

All: 2.773+/-0.010 χ^2/NDF : 1458904.6/94

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -522.551+/-5.532 χ^2/NDF : 561.8/3

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -552.010+/-3.474 χ^2/NDF : 2540.7/6

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

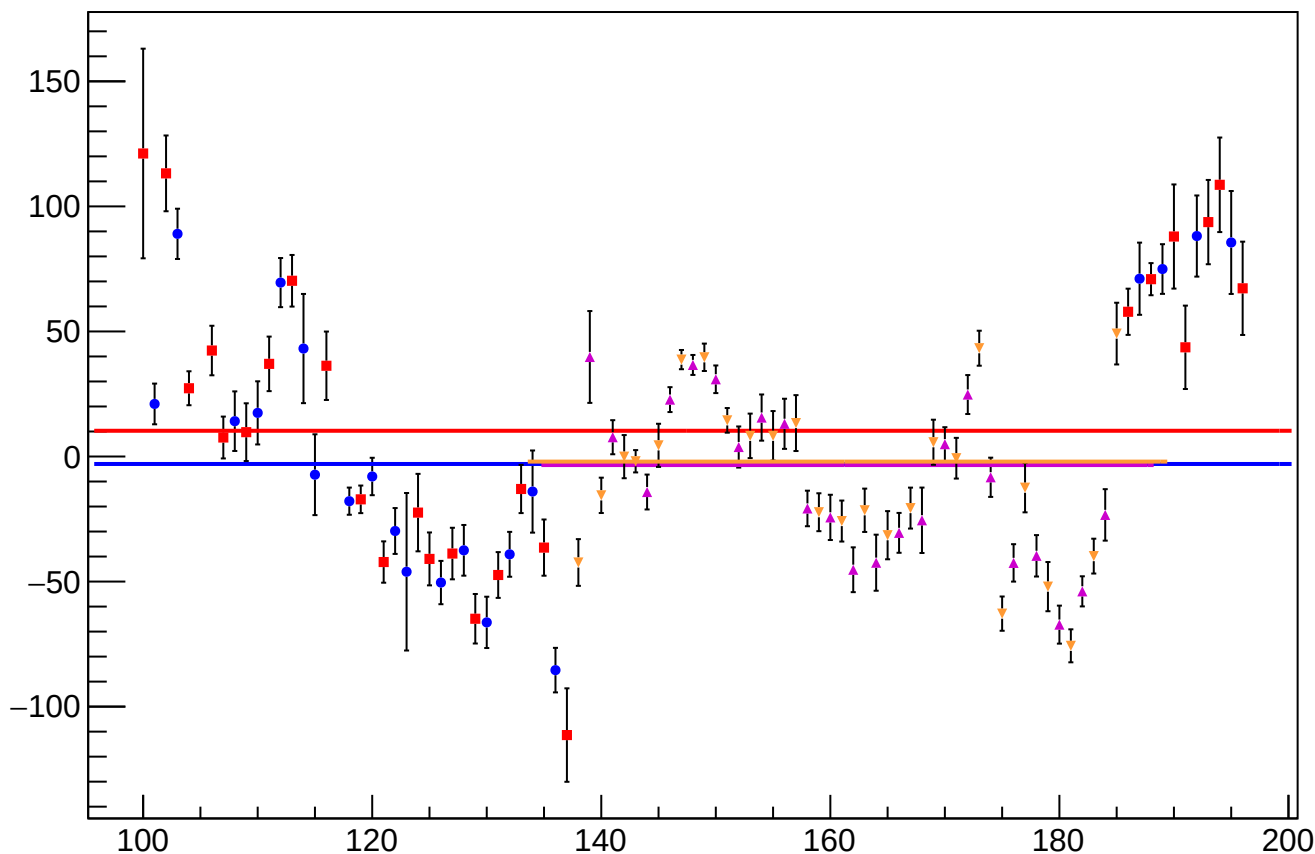
Right: -543.677+/-2.942 χ^2/NDF : 3122.8/10

In: -421.614+/-1.863 χ^2/NDF : 4000.2/26

Out: -430.189+/-1.665 χ^2/NDF : 7909.4/31

All: -426.382+/-1.242 χ^2/NDF : 11921.4/58

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.987 ± 2.227 $\chi^2/\text{NDF}: 494.6/20$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 10.291 ± 2.014 $\chi^2/\text{NDF}: 586.4/25$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

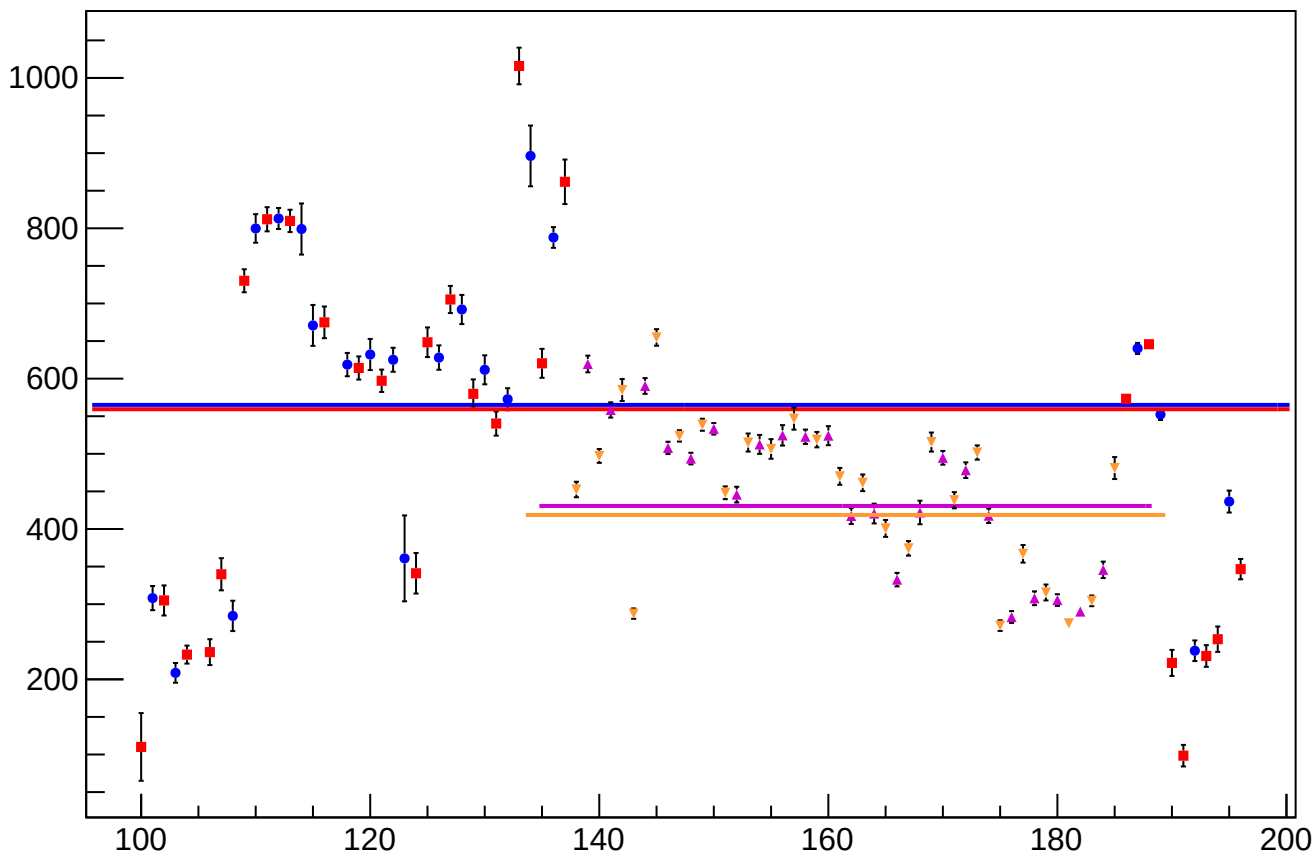
Right: 4.317 ± 1.494 $\chi^2/\text{NDF}: 1100.6/46$

In: -3.282 ± 1.255 $\chi^2/\text{NDF}: 945.6/43$

Out: 2.073 ± 1.163 $\chi^2/\text{NDF}: 1175.2/50$

All: -0.400 ± 0.853 $\chi^2/\text{NDF}: 2130.6/94$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 565.069 $\pm$ 3.173 χ^2 /NDF: 2905.8/20

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 559.326 $\pm$ 2.347 χ^2 /NDF: 5844.7/25

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

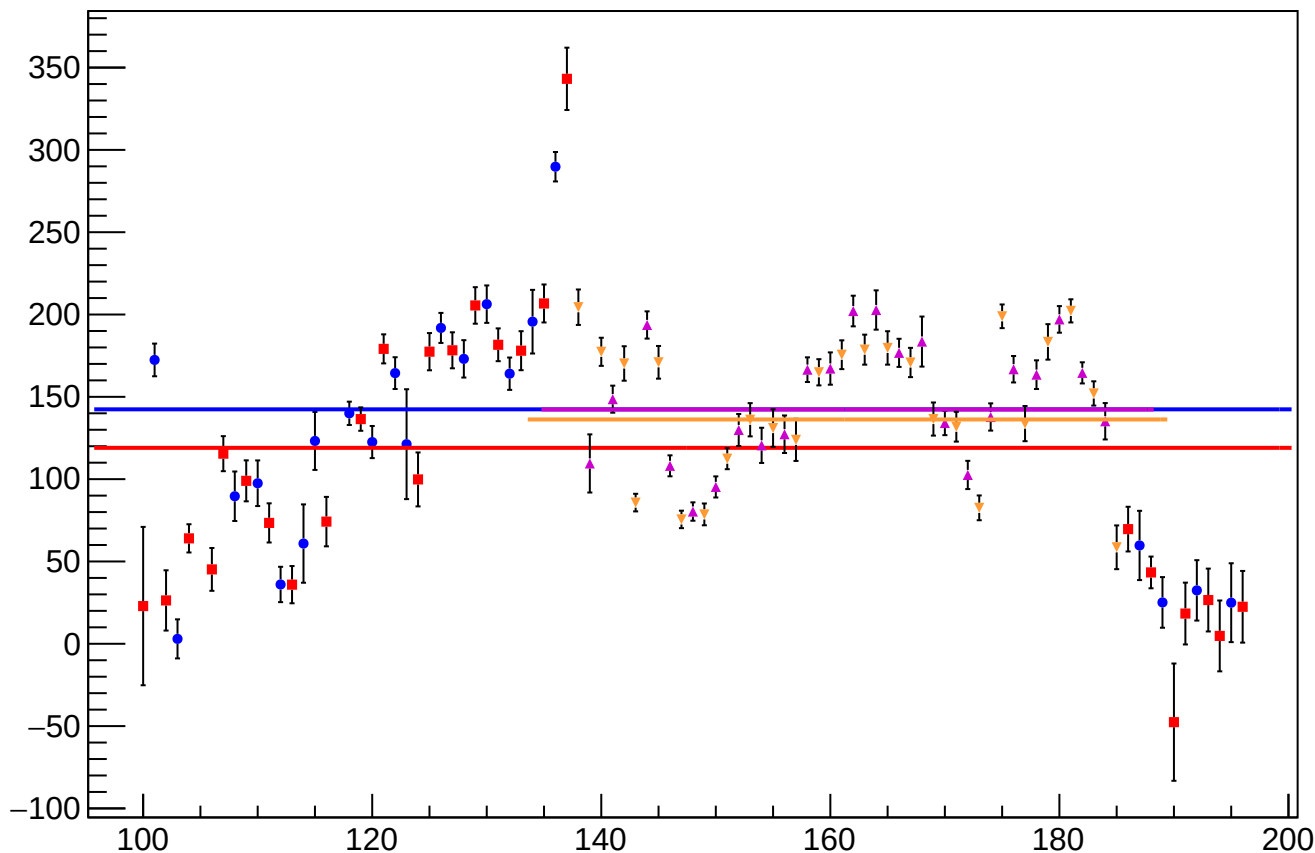
Right: 561.356 $\pm$ 1.887 χ^2 /NDF: 8752.6/46

In: 468.054 $\pm$ 1.674 χ^2 /NDF:7051.4/43

Out: 474.541 $\pm$ 1.479 χ^2 /NDF:11306.4/50

All: 471.698 $\pm$ 1.108 χ^2 /NDF: 18366.2/94

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 142.408 $\pm$ 2.610 χ^2 /NDF: 776.7/20

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 119.020 $\pm$ 2.407 χ^2 /NDF: 813.1/25

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

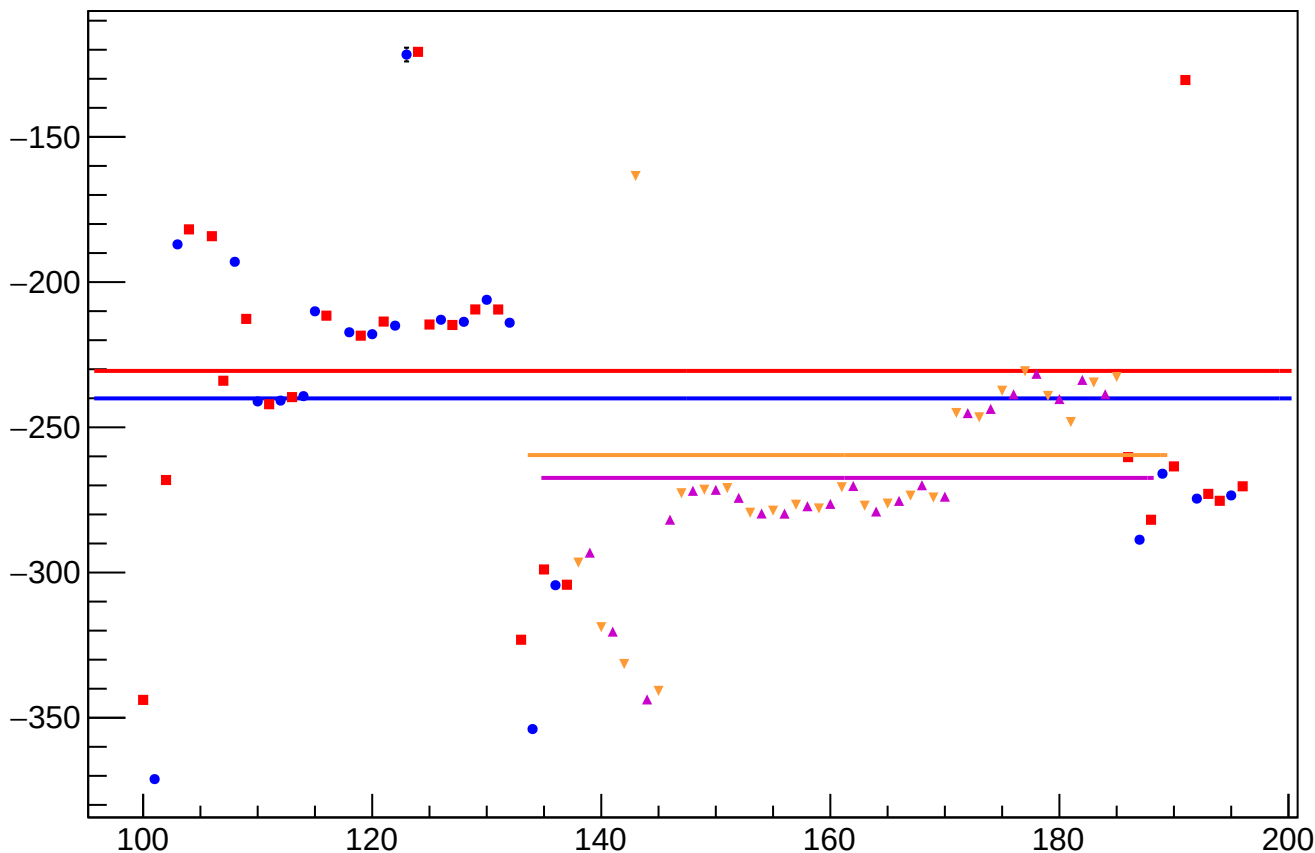
Right: 129.773 $\pm$ 1.769 χ^2 /NDF: 1633.2/46

In: 142.331 $\pm$ 1.450 χ^2 /NDF: 1236.4/43

Out: 130.744 $\pm$ 1.362 χ^2 /NDF: 1606.3/50

All: 136.172 $\pm$ 0.993 χ^2 /NDF: 2876.6/94

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -240.040+/-0.138 χ^2/NDF : 154926.5/20

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -230.575+/-0.122 χ^2/NDF : 163200.5/25

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

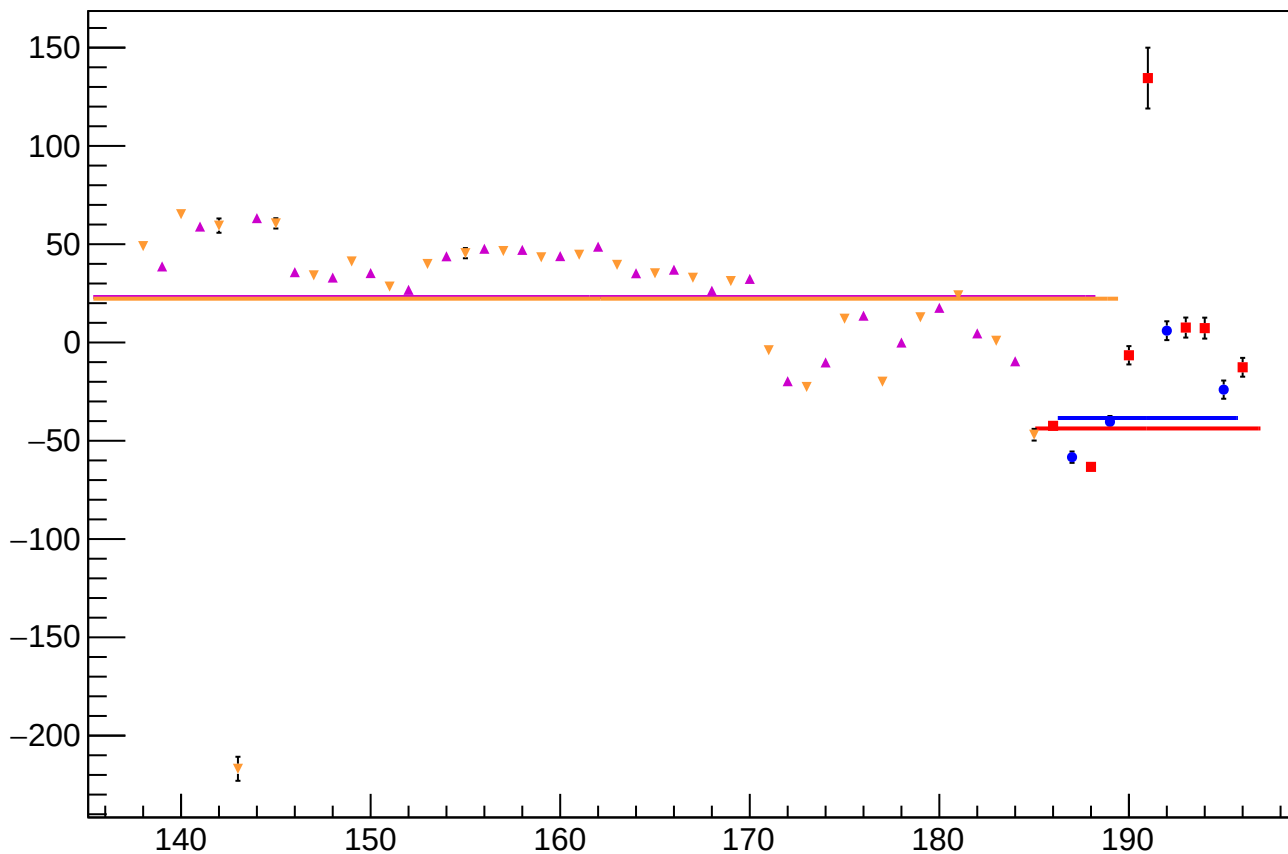
Right: -234.727+/-0.092 χ^2/NDF : 320758.0/46

In: -260.335+/-0.070 χ^2/NDF : 282029.6/43

Out: -251.002+/-0.066 χ^2/NDF : 441074.9/50

All: -255.401+/-0.048 χ^2/NDF : 732418.1/94

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.419 ± 1.755 $\chi^2/\text{NDF}: 143.8/3$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -43.739 ± 1.050 $\chi^2/\text{NDF}: 589.4/6$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

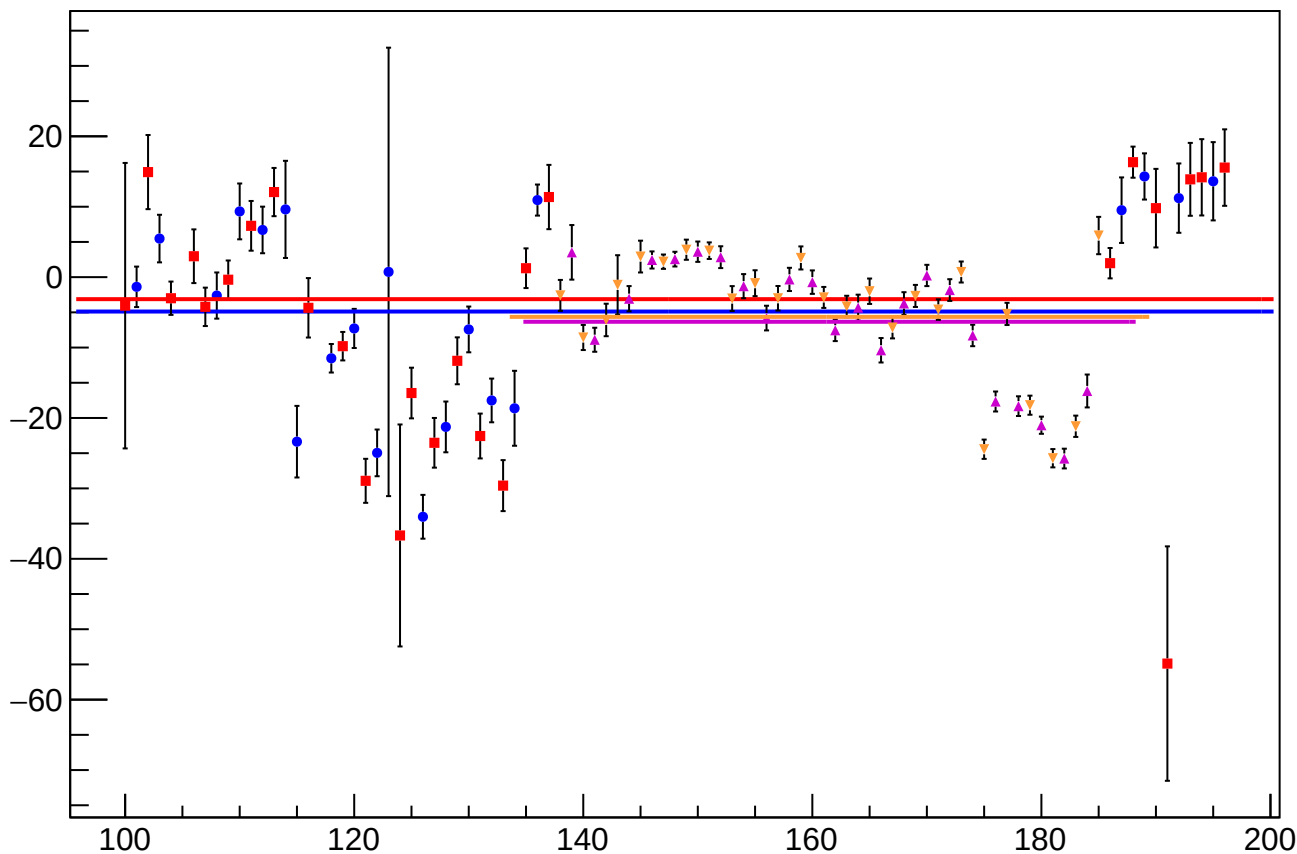
Right: -42.336 ± 0.901 $\chi^2/\text{NDF}: 739.9/10$

In: 20.077 ± 0.391 $\chi^2/\text{NDF}: 4056.9/26$

Out: 13.963 ± 0.373 $\chi^2/\text{NDF}: 9213.0/31$

All: 16.872 ± 0.270 $\chi^2/\text{NDF}: 13397.9/58$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.884 ± 0.743 χ^2/NDF : 351.6/20

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -3.127 ± 0.662 χ^2/NDF : 416.0/25

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

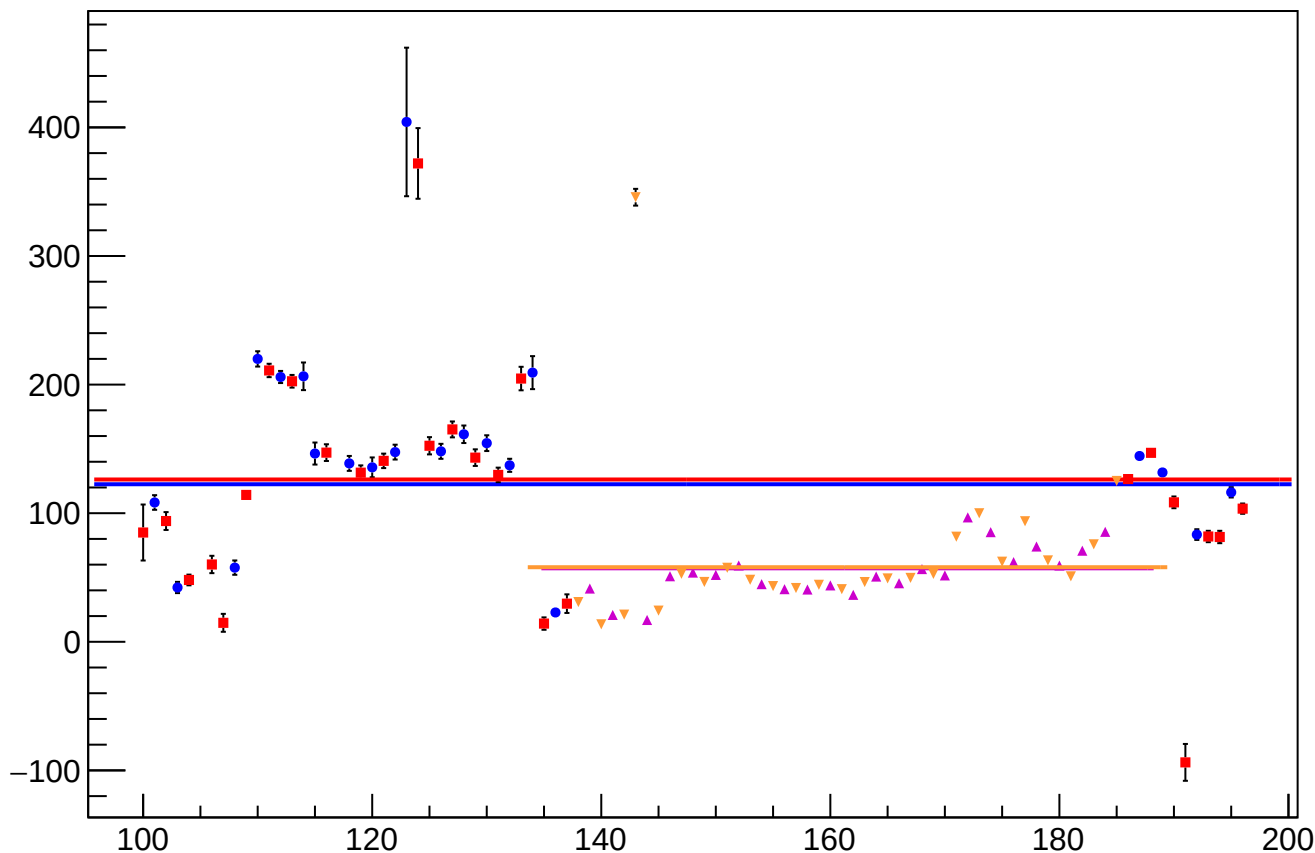
Right: -3.904 ± 0.494 χ^2/NDF : 770.7/46

In: -6.108 ± 0.295 χ^2/NDF : 1137.8/43

Out: -5.176 ± 0.285 χ^2/NDF : 1321.5/50

All: -5.626 ± 0.205 χ^2/NDF : 2464.4/94

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 122.513 $\pm$ 1.024 χ^2 /NDF: 2363.7/20

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 126.216 $\pm$ 0.727 χ^2 /NDF: 2938.4/25

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

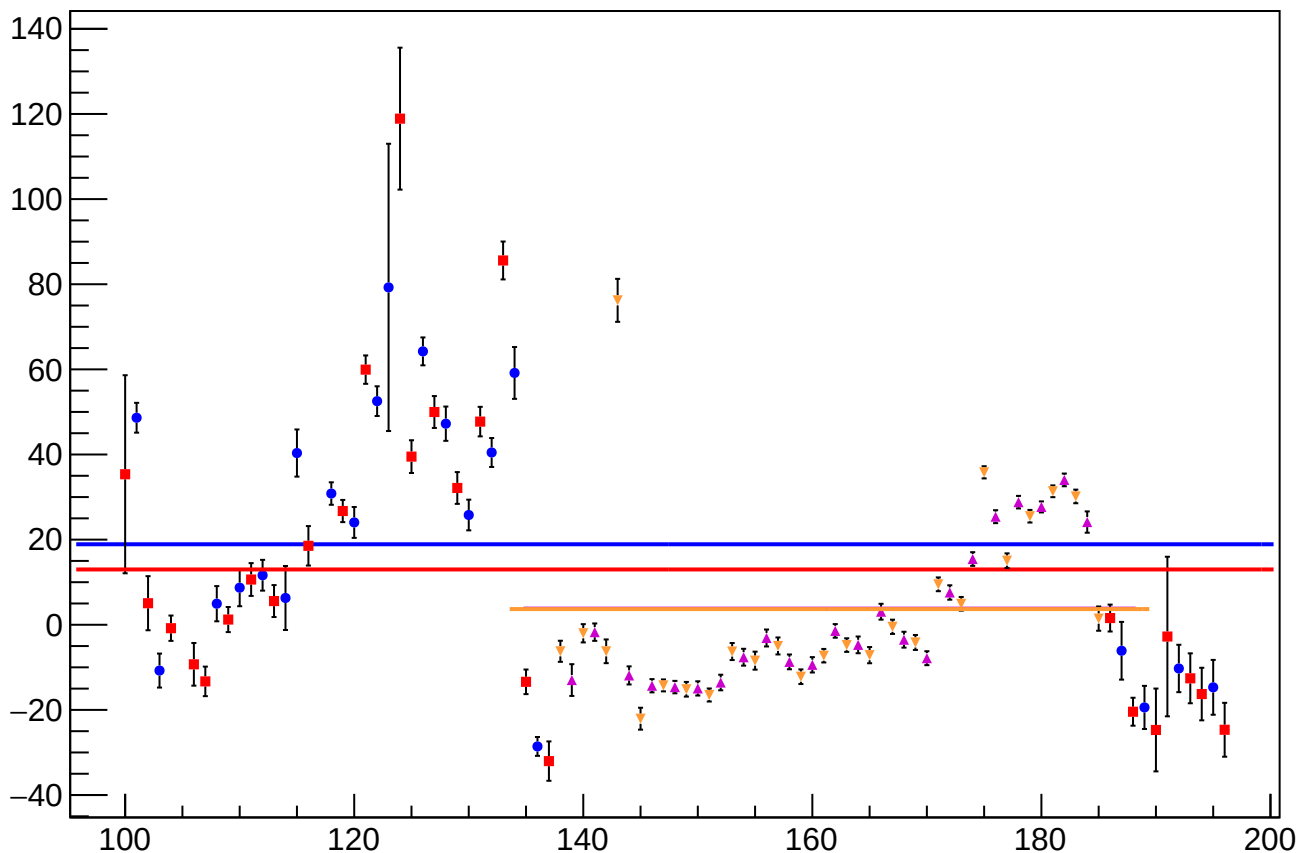
Right: 124.975 $\pm$ 0.593 χ^2 /NDF: 5310.8/46

In: 65.773 $\pm$ 0.372 χ^2 /NDF:7702.7/43

Out: 73.707 $\pm$ 0.349 χ^2 /NDF:14345.6/50

All: 69.994 $\pm$ 0.255 χ^2 /NDF: 22290.0/94

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.910 $\pm$ 0.860 χ^2 /NDF: 1198.4/20

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 12.994 $\pm$ 0.791 χ^2 /NDF: 1314.2/25

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

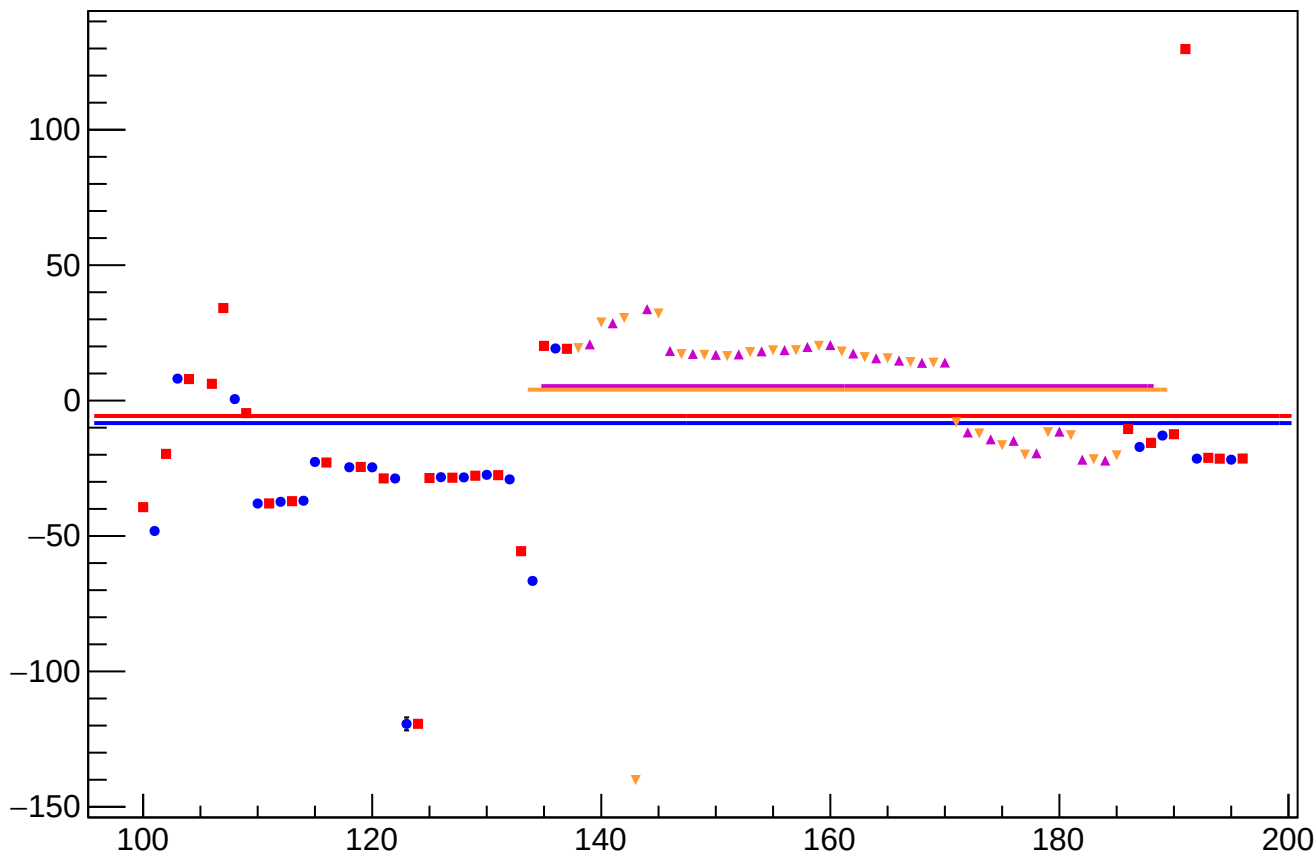
Right: 15.702 $\pm$ 0.582 χ^2 /NDF: 2538.3/46

In: 6.058 $\pm$ 0.333 χ^2 /NDF:3659.8/43

Out: 5.259 $\pm$ 0.325 χ^2 /NDF:3971.1/50

All: 5.649 $\pm$ 0.233 χ^2 /NDF: 7633.9/94

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.304+/-0.043 χ^2/NDF : 277291.1/20

Left Out: 4.026+/-0.016 χ^2/NDF :1383143.9/24

Right Out: -5.682+/-0.040 χ^2/NDF : 364212.9/25

Left In: 5.335+/-0.016 χ^2/NDF :1077818.8/22

Left: 4.678+/-0.012 χ^2/NDF : 2464153.9/47

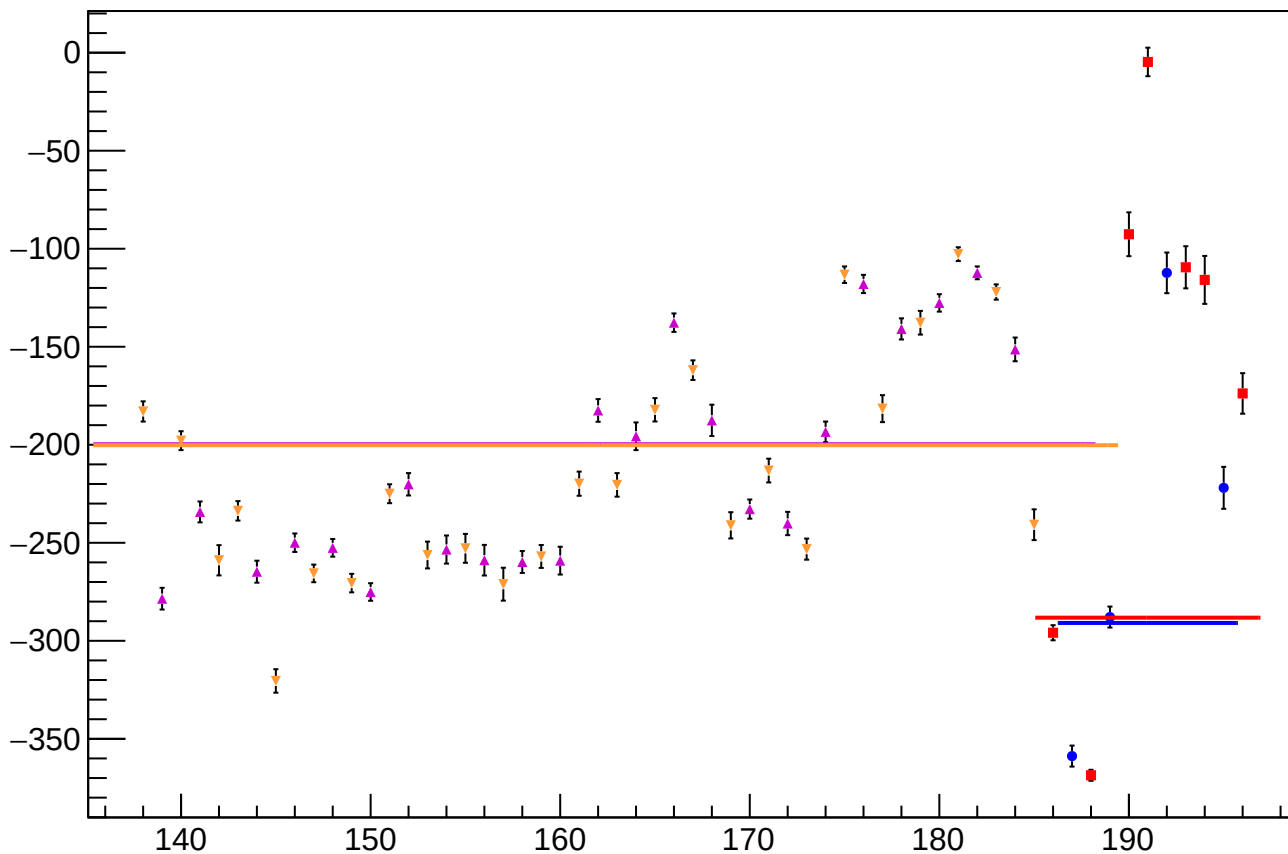
Right: -6.899+/-0.029 χ^2/NDF : 643530.1/46

In: 3.573+/-0.015 χ^2/NDF :1444206.9/43

Out: 2.615+/-0.015 χ^2/NDF :1798509.2/50

All: 3.088+/-0.011 χ^2/NDF : 3244697.0/94

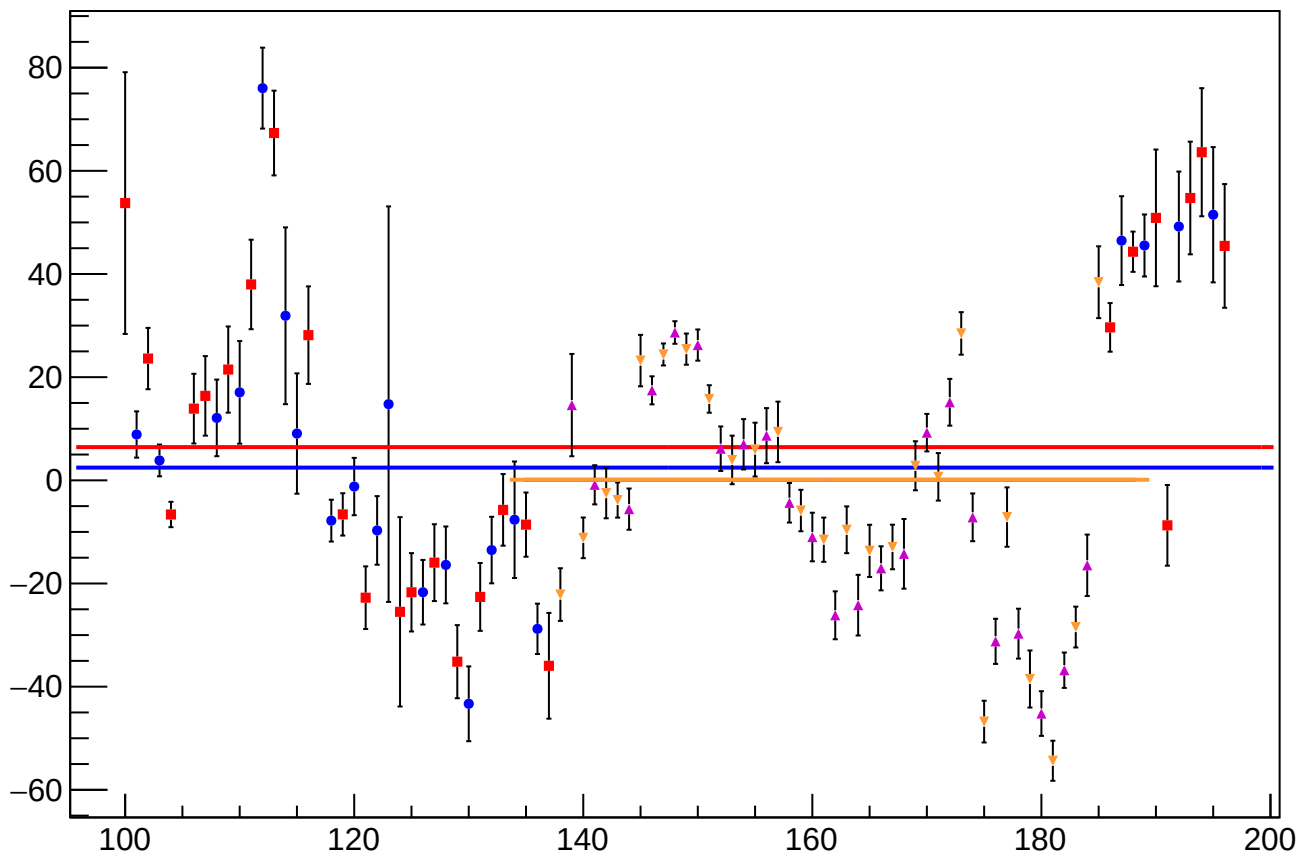
reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -290.892 ± 3.374 $\chi^2/\text{NDF}: 499.1/3$
 Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$
 Right Out: -288.195 ± 2.019 $\chi^2/\text{NDF}: 3241.3/6$
 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: -288.906 ± 1.733 $\chi^2/\text{NDF}: 3740.9/10$
 In: -208.458 ± 1.044 $\chi^2/\text{NDF}: 4127.0/26$
 Out: -219.737 ± 0.951 $\chi^2/\text{NDF}: 7943.5/31$
 All: -214.621 ± 0.703 $\chi^2/\text{NDF}: 12134.4/58$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.468 ± 1.388 χ^2/NDF : 327.4/20

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 6.440 ± 1.225 χ^2/NDF : 443.6/25

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

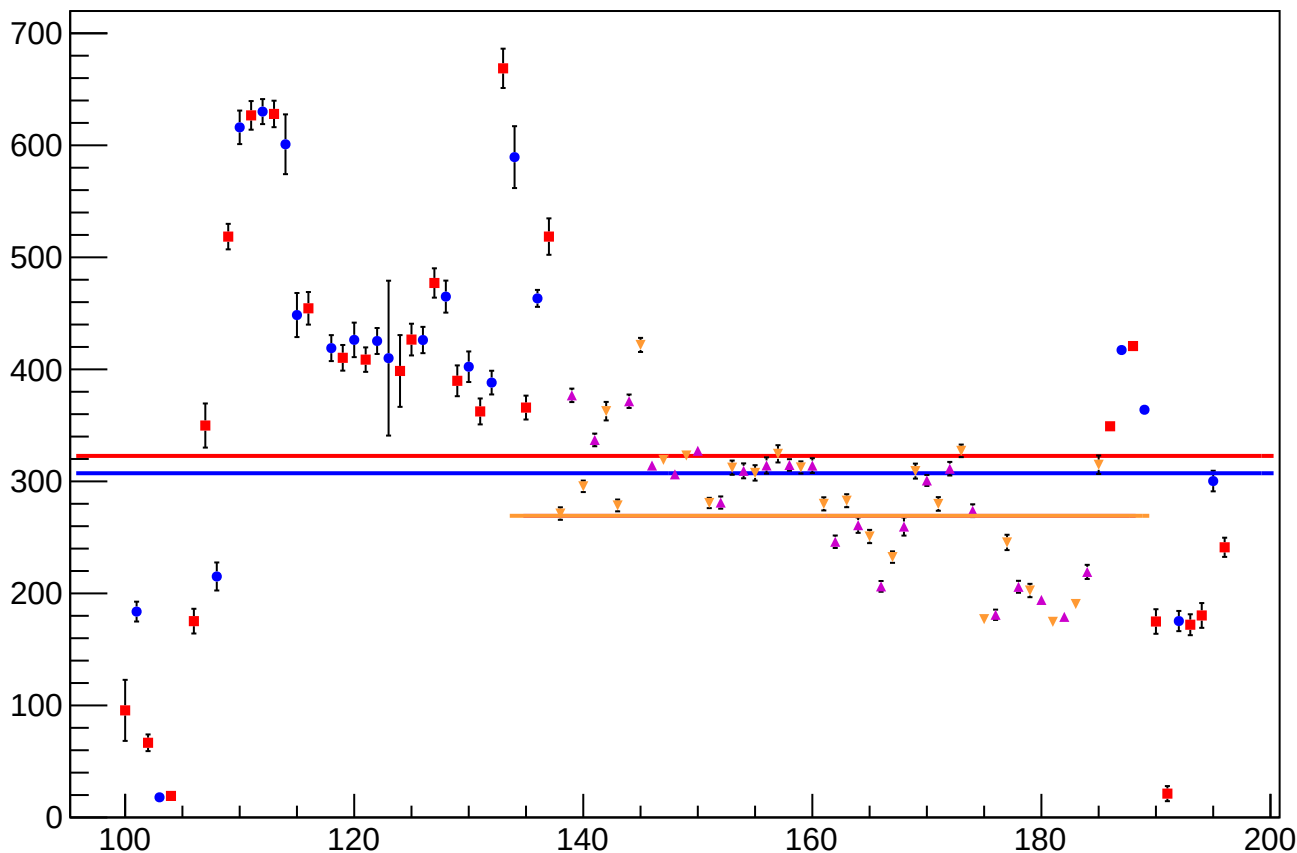
Right: 4.701 ± 0.918 χ^2/NDF : 775.6/46

In: 0.730 ± 0.717 χ^2/NDF : 1045.0/43

Out: 2.025 ± 0.674 χ^2/NDF : 1293.4/50

All: 1.418 ± 0.491 χ^2/NDF : 2340.2/94

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 307.269 $\pm$ 1.865 χ^2 /NDF: 8905.5/20

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 322.738 $\pm$ 1.373 χ^2 /NDF: 13481.8/25

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

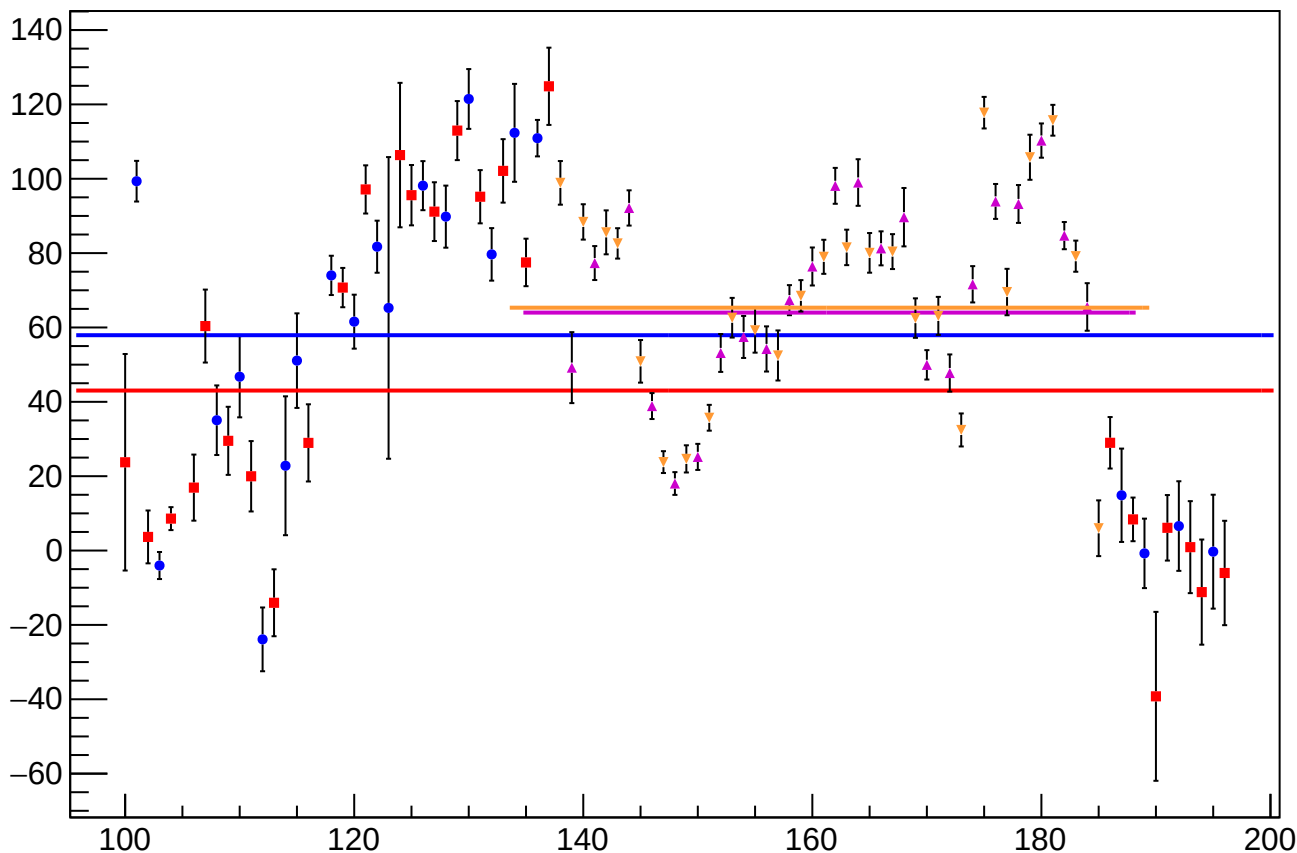
Right: 317.303 $\pm$ 1.106 χ^2 /NDF: 22431.9/46

In: 278.892 $\pm$ 0.941 χ^2 /NDF:12386.3/43

Out: 289.662 $\pm$ 0.848 χ^2 /NDF:17566.9/50

All: 284.841 $\pm$ 0.630 χ^2 /NDF: 30025.5/94

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 57.920 ± 1.630 $\chi^2/\text{NDF}: 811.6/20$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 43.036 ± 1.489 $\chi^2/\text{NDF}: 782.1/25$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

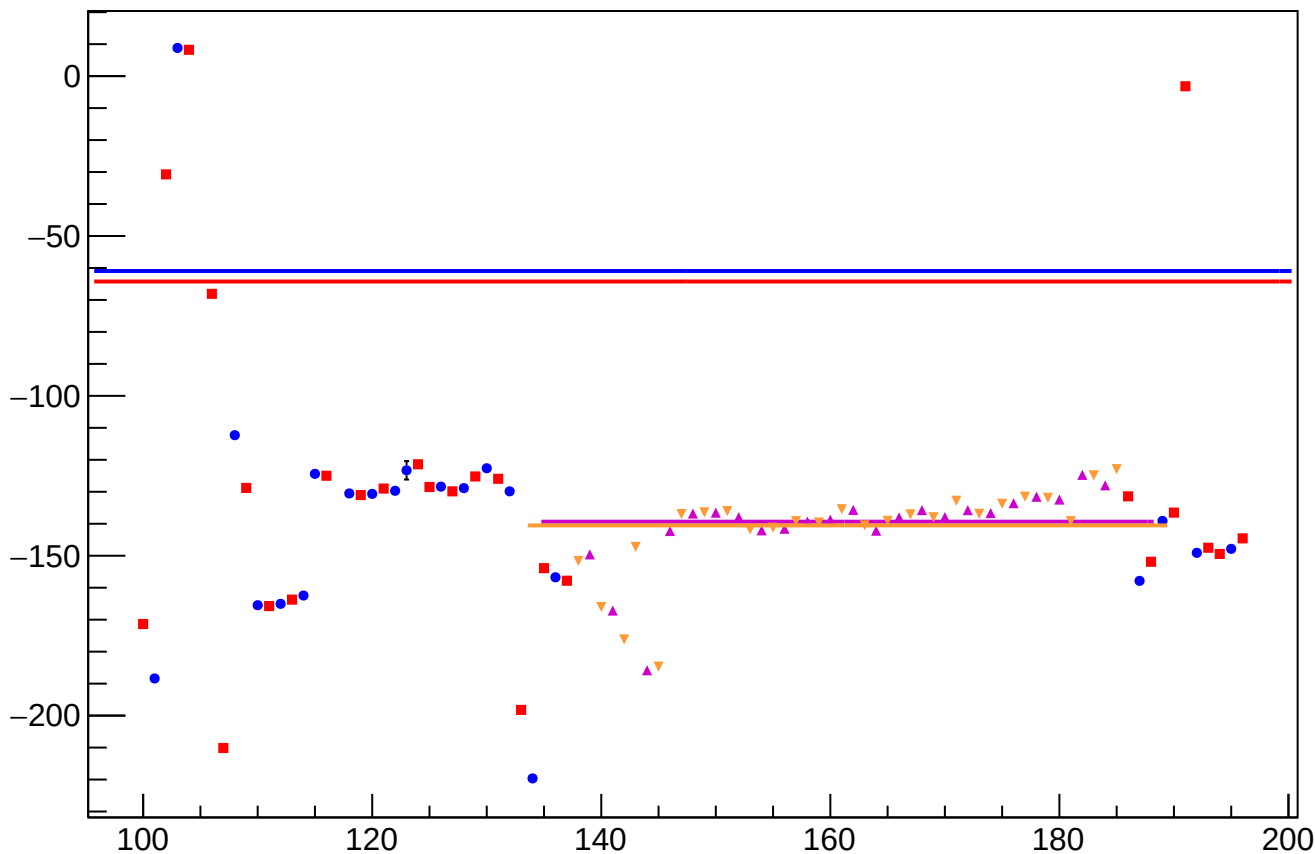
Right: 49.803 ± 1.099 $\chi^2/\text{NDF}: 1639.1/46$

In: 62.427 ± 0.829 $\chi^2/\text{NDF}: 1621.3/43$

Out: 59.021 ± 0.792 $\chi^2/\text{NDF}: 1950.0/50$

All: 60.645 ± 0.572 $\chi^2/\text{NDF}: 3580.2/94$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -60.952 ± 0.067 $\chi^2/\text{NDF}: 1371714.1/20$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -64.235 ± 0.064 $\chi^2/\text{NDF}: 1273912.8/25$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

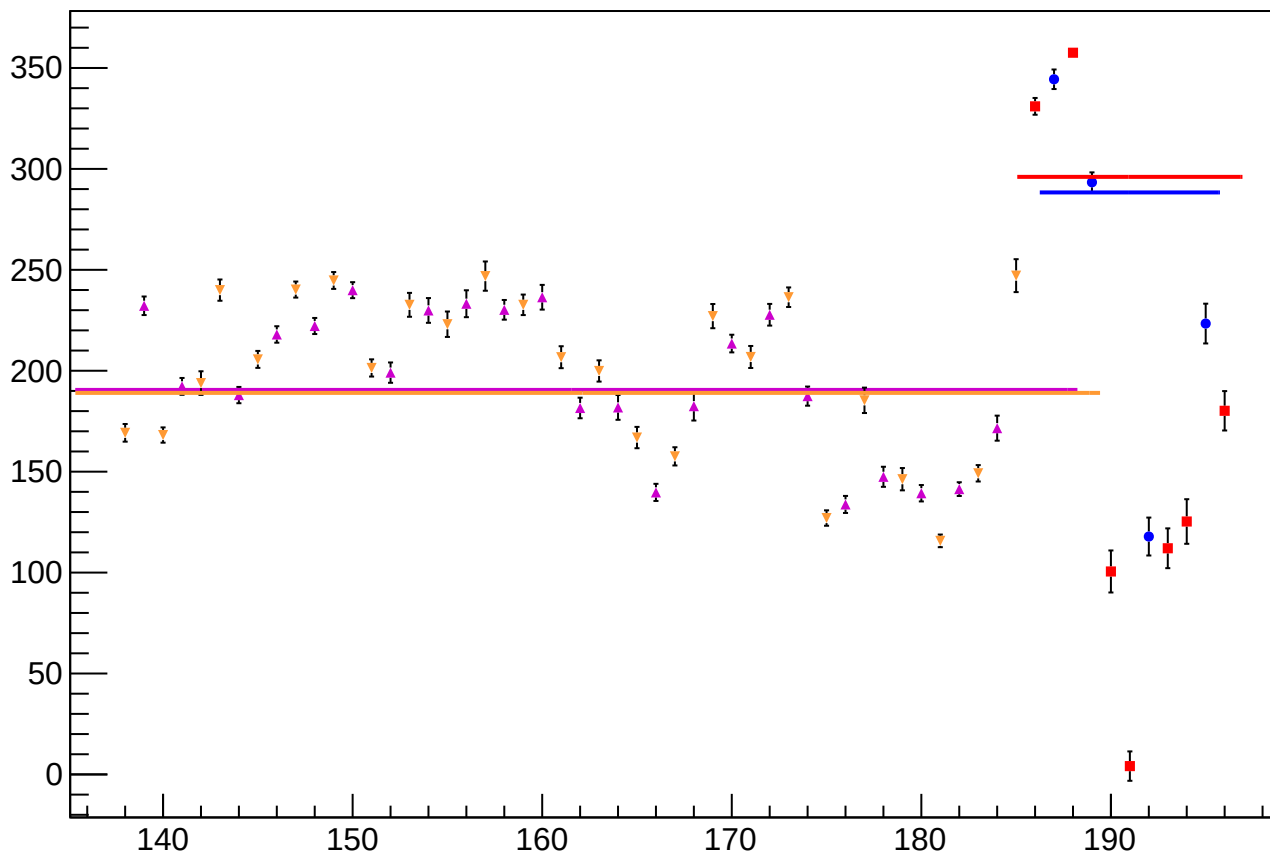
Right: -62.679 ± 0.046 $\chi^2/\text{NDF}: 2646872.3/46$

In: -115.212 ± 0.037 $\chi^2/\text{NDF}: 2368755.1/43$

Out: -115.631 ± 0.037 $\chi^2/\text{NDF}: 2307853.7/50$

All: -115.427 ± 0.026 $\chi^2/\text{NDF}: 4676672.9/94$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 288.345 $\pm$ 3.075 χ^2 /NDF: 508.1/3

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 296.057 $\pm$ 1.909 χ^2 /NDF: 3362.8/6

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

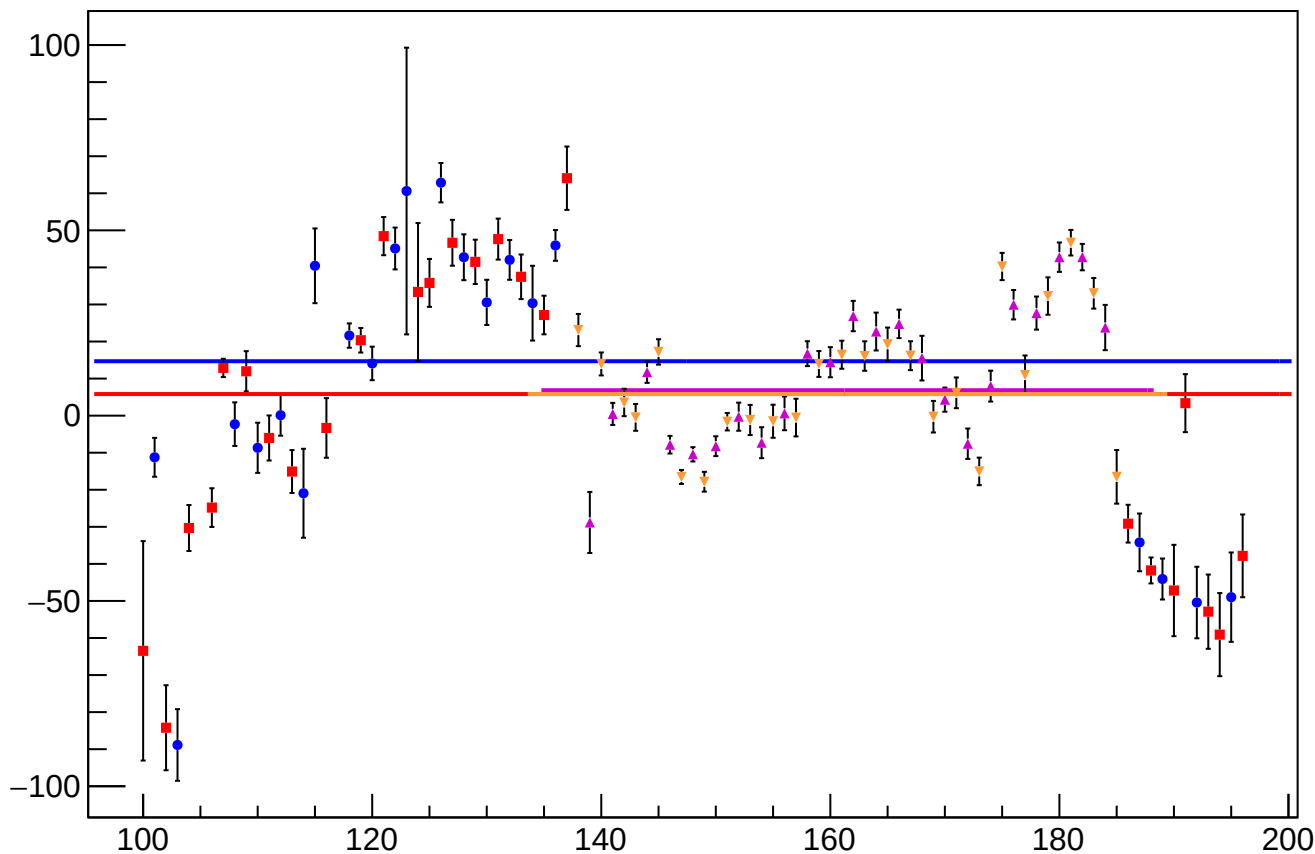
Right: 293.911 $\pm$ 1.622 χ^2 /NDF: 3875.4/10

In: 199.443 $\pm$ 0.929 χ^2 /NDF:2840.4/26

Out: 210.480 $\pm$ 0.855 χ^2 /NDF:7856.3/31

All: 205.423 $\pm$ 0.629 χ^2 /NDF: 10773.1/58

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.683 ± 1.315 χ^2/NDF : 636.8/20

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 5.824 ± 1.097 χ^2/NDF : 835.0/25

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

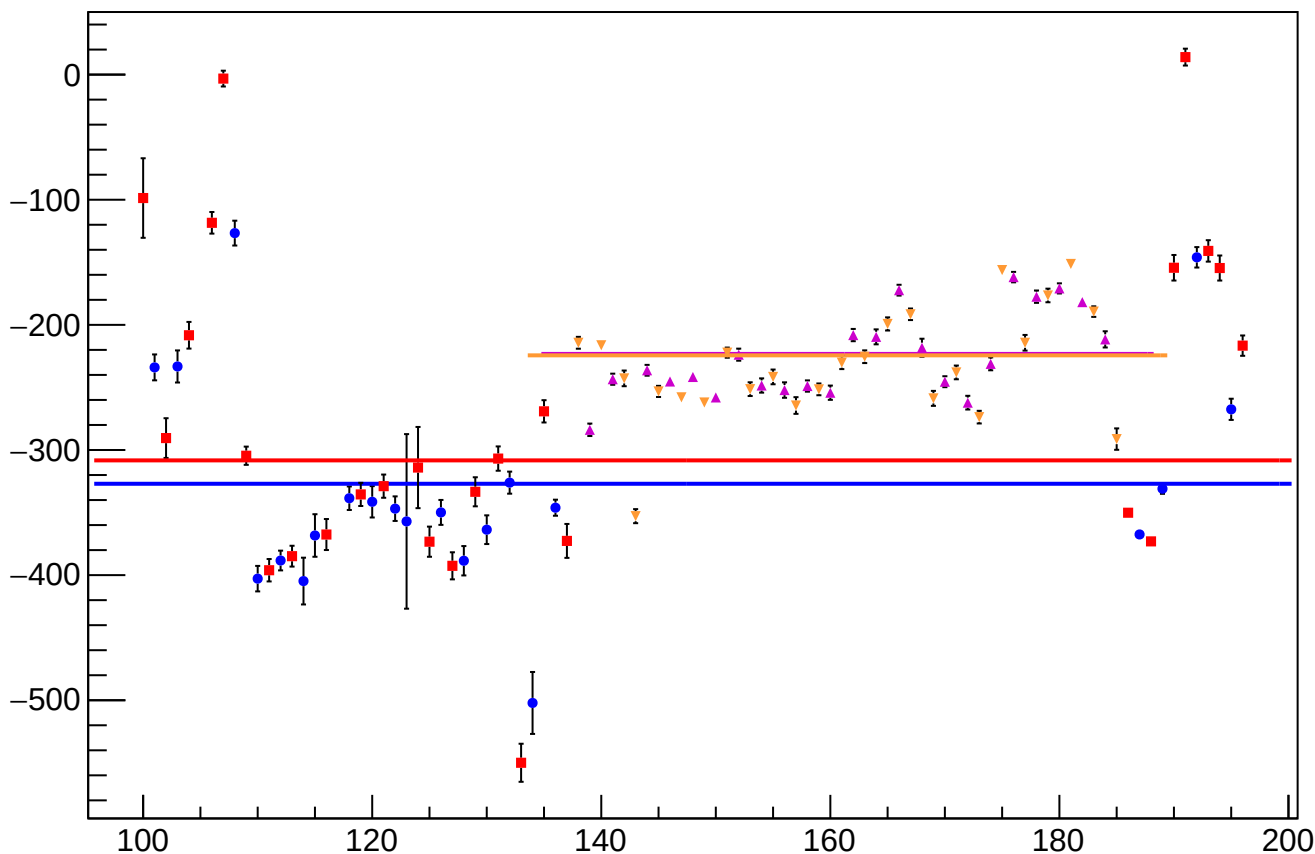
Right: 9.459 ± 0.842 χ^2/NDF : 1498.5/46

In: 8.728 ± 0.642 χ^2/NDF : 1186.4/43

Out: 5.831 ± 0.597 χ^2/NDF : 1487.2/50

All: 7.175 ± 0.437 χ^2/NDF : 2684.6/94

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -326.991 ± 1.819 χ^2/NDF : 1434.5/20

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -308.304 ± 1.298 χ^2/NDF : 8008.3/25

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

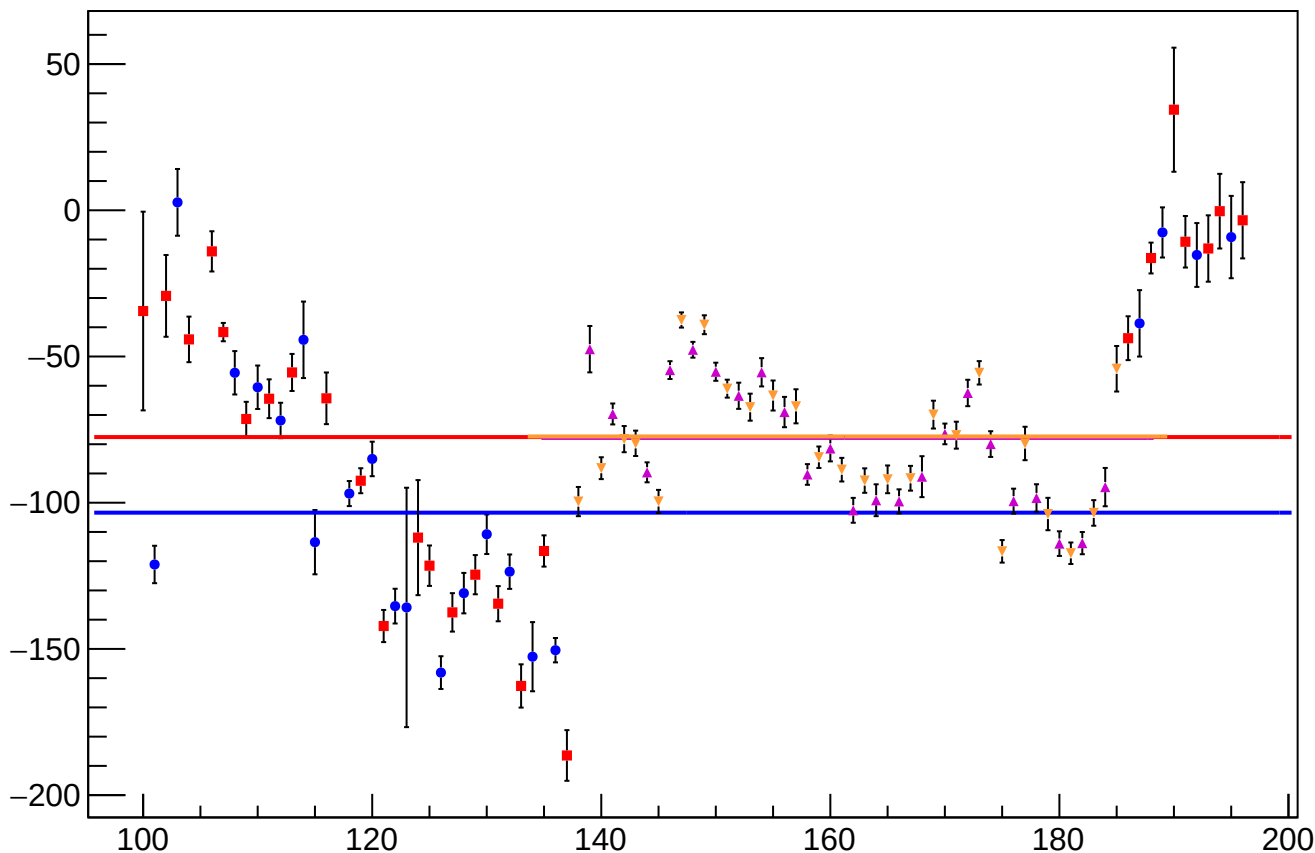
Right: -314.610 ± 1.057 χ^2/NDF : 9512.7/46

In: -246.161 ± 0.855 χ^2/NDF : 5237.8/43

Out: -253.872 ± 0.770 χ^2/NDF : 12821.6/50

All: -250.421 ± 0.572 χ^2/NDF : 18104.3/94

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -103.403 ± 1.534 χ^2/NDF : 795.3/20

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -77.553 ± 1.320 χ^2/NDF : 1368.8/25

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

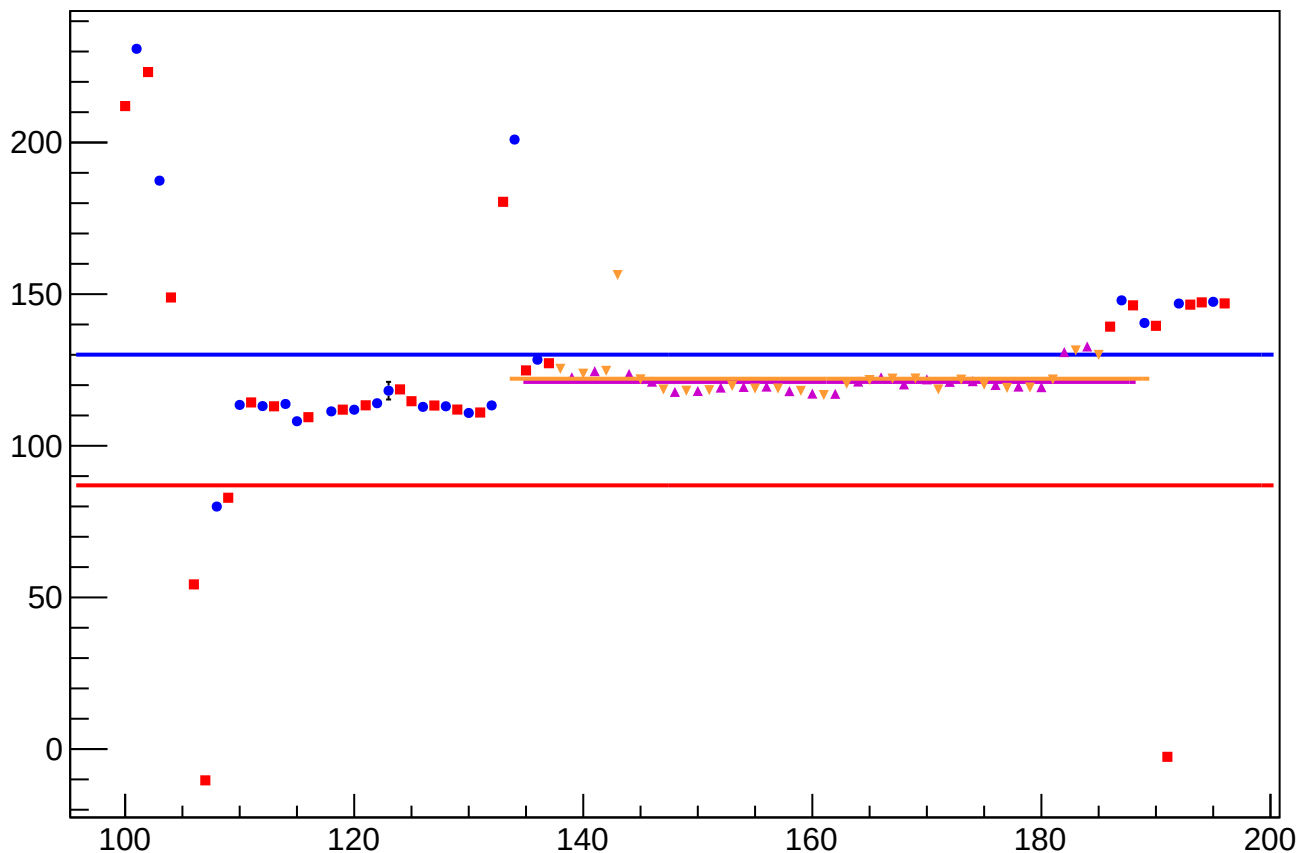
Right: -88.547 ± 1.000 χ^2/NDF : 2327.4/46

In: -83.830 ± 0.743 χ^2/NDF : 1630.8/43

Out: -77.402 ± 0.701 χ^2/NDF : 2215.1/50

All: -80.429 ± 0.510 χ^2/NDF : 3885.5/94

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 130.052 $\pm$ 0.083 χ^2 /NDF: 194033.0/20

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF: 30480.7/24

Right Out: 86.956 $\pm$ 0.066 χ^2 /NDF: 1041349.6/25

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

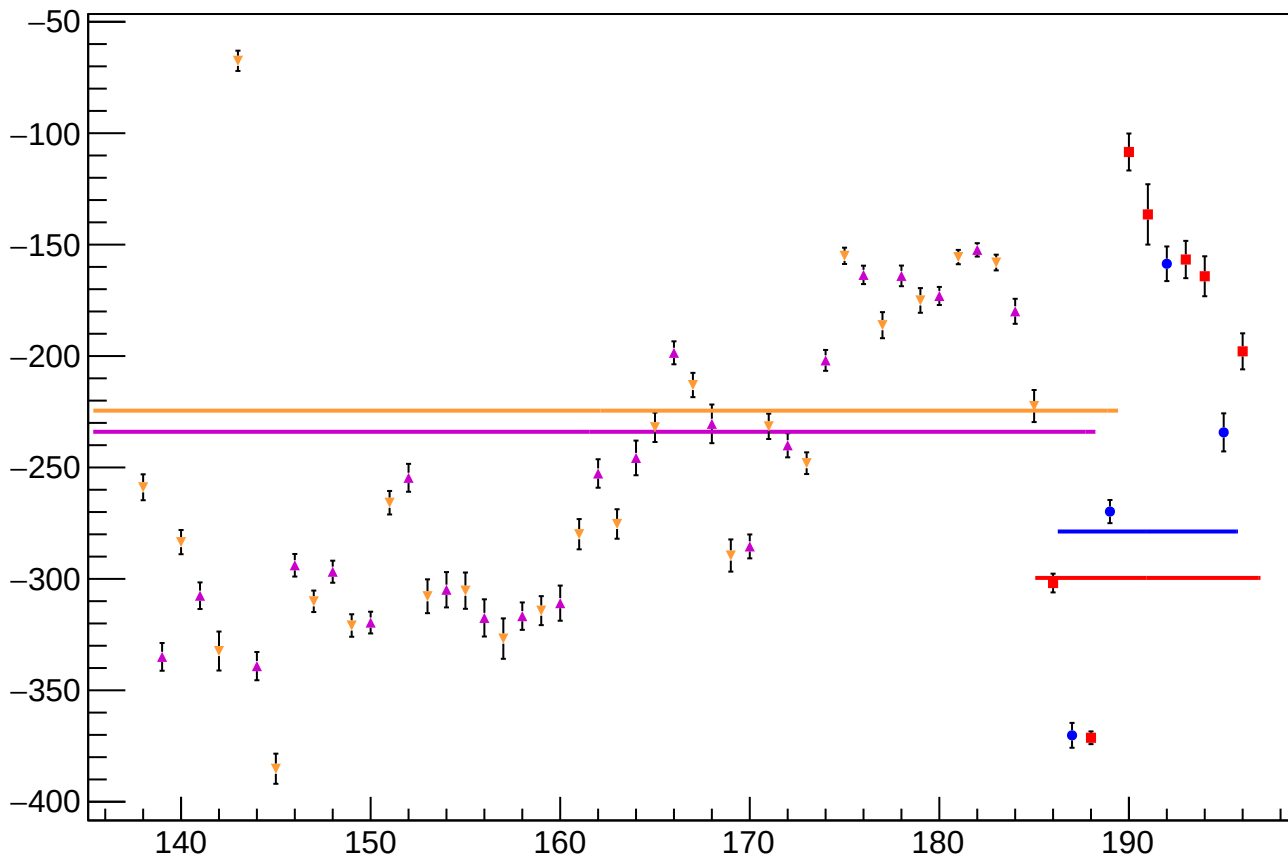
Right: 103.616 $\pm$ 0.051 χ^2 /NDF: 1402138.7/46

In: 122.744 $\pm$ 0.036 χ^2 /NDF: 211587.7/43

Out: 112.796 $\pm$ 0.034 χ^2 /NDF: 1282868.3/50

All: 117.481 $\pm$ 0.025 χ^2 /NDF: 1535279.5/94

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -278.733+/-3.172 χ^2/NDF : 537.8/3

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -299.561+/-2.035 χ^2/NDF : 1986.9/6

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

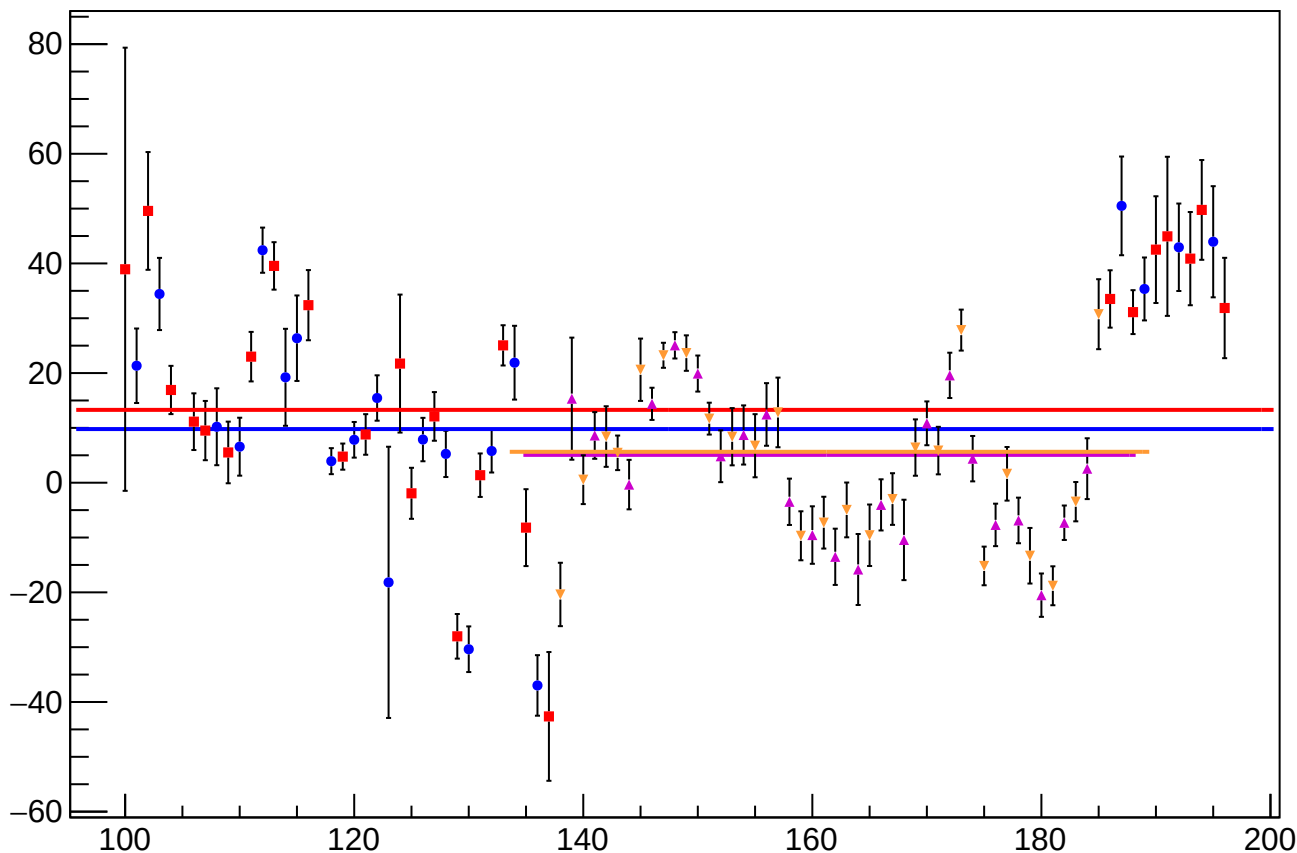
Right: -293.489+/-1.713 χ^2/NDF : 2555.3/10

In: -238.858+/-1.047 χ^2/NDF : 4253.6/26

Out: -240.976+/-0.953 χ^2/NDF : 7919.5/31

All: -240.015+/-0.705 χ^2/NDF : 12175.3/58

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.785 ± 1.062 χ^2/NDF : 334.6/20

Left Out: 5.638 ± 0.828 χ^2/NDF : 313.6/24

Right Out: 13.287 ± 0.990 χ^2/NDF : 324.5/25

Left In: 5.077 ± 0.869 χ^2/NDF : 239.7/22

Left: 5.371 ± 0.599 χ^2/NDF : 553.6/47

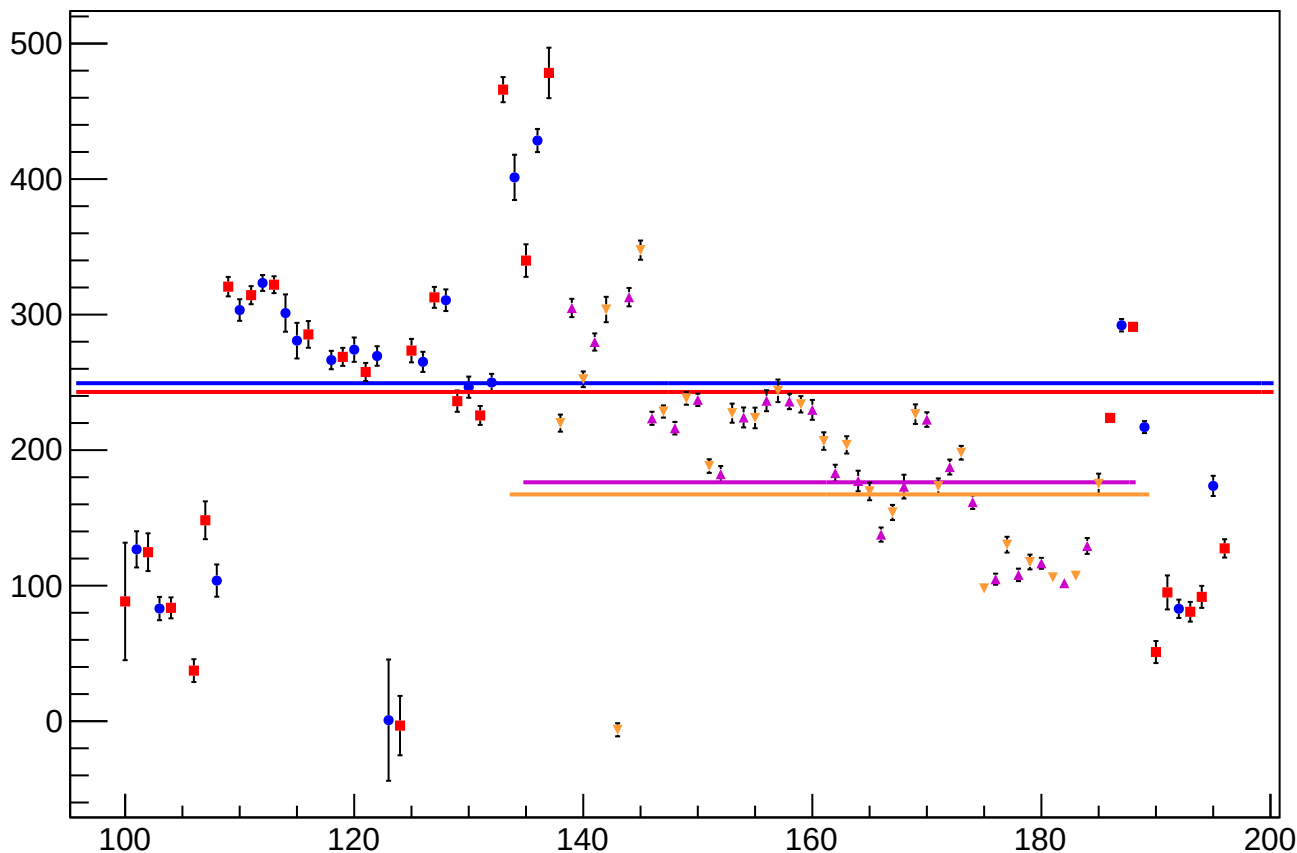
Right: 11.659 ± 0.724 χ^2/NDF : 664.9/46

In: 6.965 ± 0.672 χ^2/NDF : 586.1/43

Out: 8.787 ± 0.635 χ^2/NDF : 673.3/50

All: 7.928 ± 0.462 χ^2/NDF : 1263.2/94

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 249.386+/-1.652 χ^2/NDF : 2321.8/20

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 242.913+/-1.281 χ^2/NDF : 4909.6/25

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

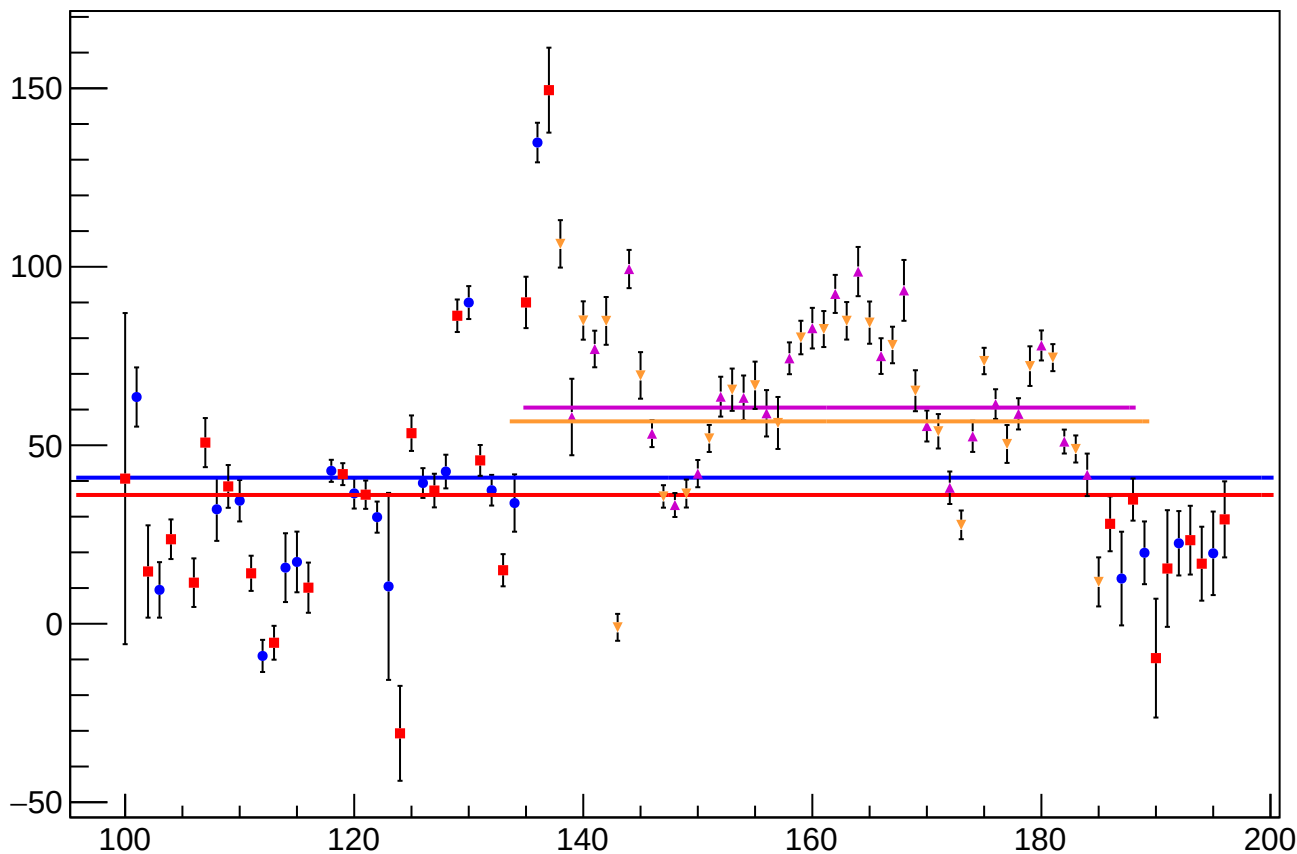
Right: 245.343+/-1.012 χ^2/NDF : 7241.0/46

In: 198.894+/-0.919 χ^2/NDF : 6844.2/43

Out: 198.822+/-0.827 χ^2/NDF : 11395.6/50

All: 198.854+/-0.615 χ^2/NDF : 18239.8/94

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.923 $\pm$ 1.239 χ^2 /NDF: 592.0/20

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 36.077 $\pm$ 1.166 χ^2 /NDF: 487.4/25

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF: 335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

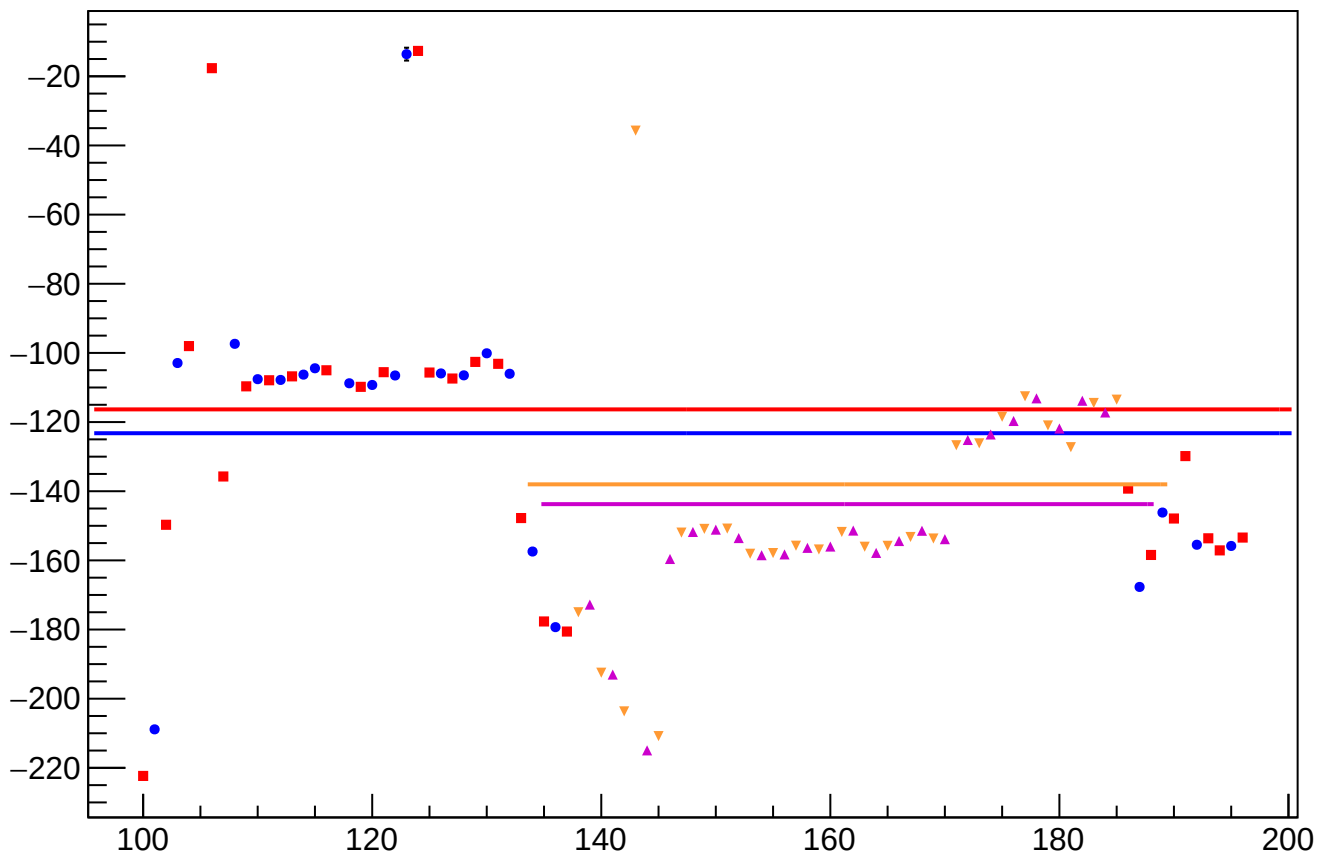
Right: 38.354 $\pm$ 0.849 χ^2 /NDF: 1087.5/46

In: 52.900 $\pm$ 0.773 χ^2 /NDF: 1080.9/43

Out: 48.451 $\pm$ 0.737 χ^2 /NDF: 1365.4/50

All: 50.569 $\pm$ 0.534 χ^2 /NDF: 2463.7/94

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -123.223+/-0.072 χ^2/NDF : 175491.5/20

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -116.333+/-0.064 χ^2/NDF : 418554.4/25

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

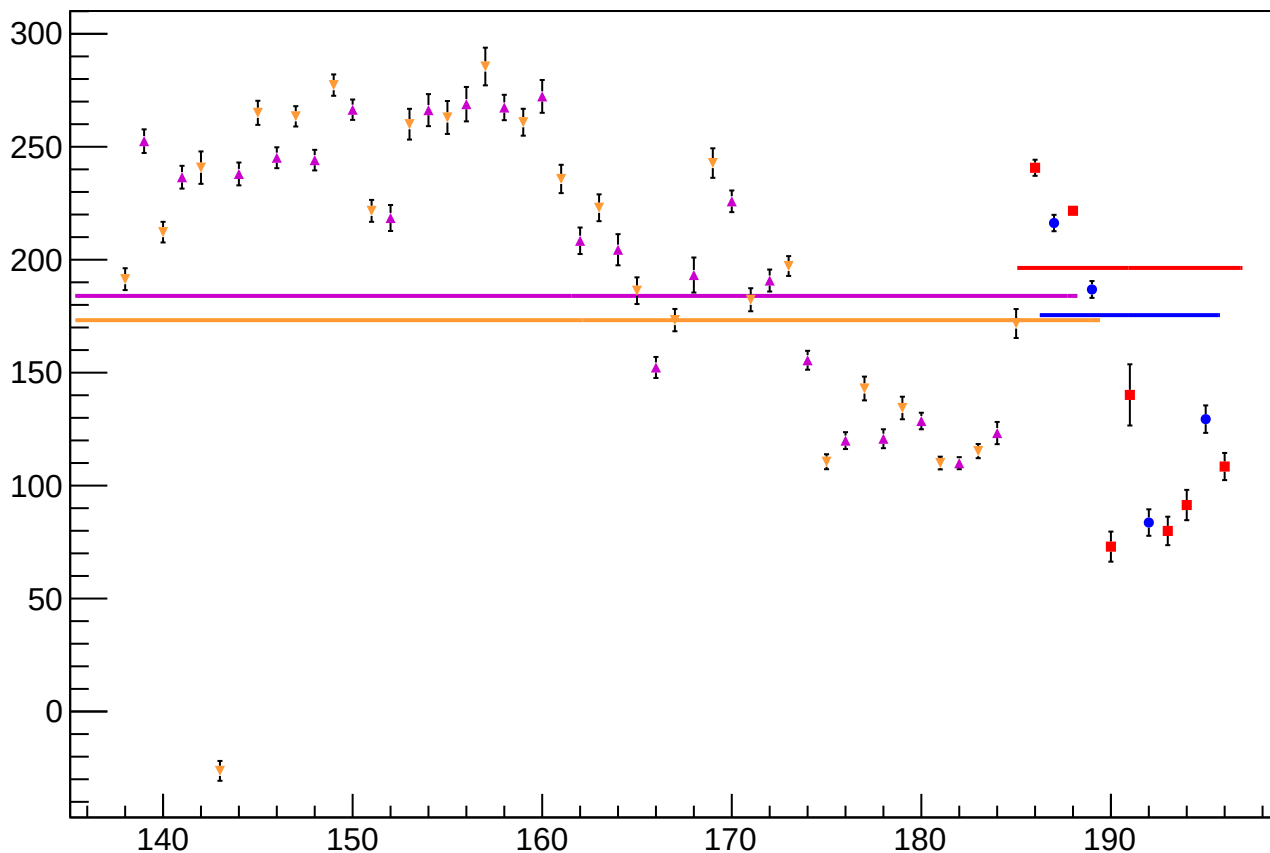
Right: -119.358+/-0.048 χ^2/NDF : 599126.8/46

In: -137.819+/-0.039 χ^2/NDF : 491004.3/43

Out: -130.818+/-0.037 χ^2/NDF : 1060847.9/50

All: -134.134+/-0.027 χ^2/NDF : 1568910.1/94

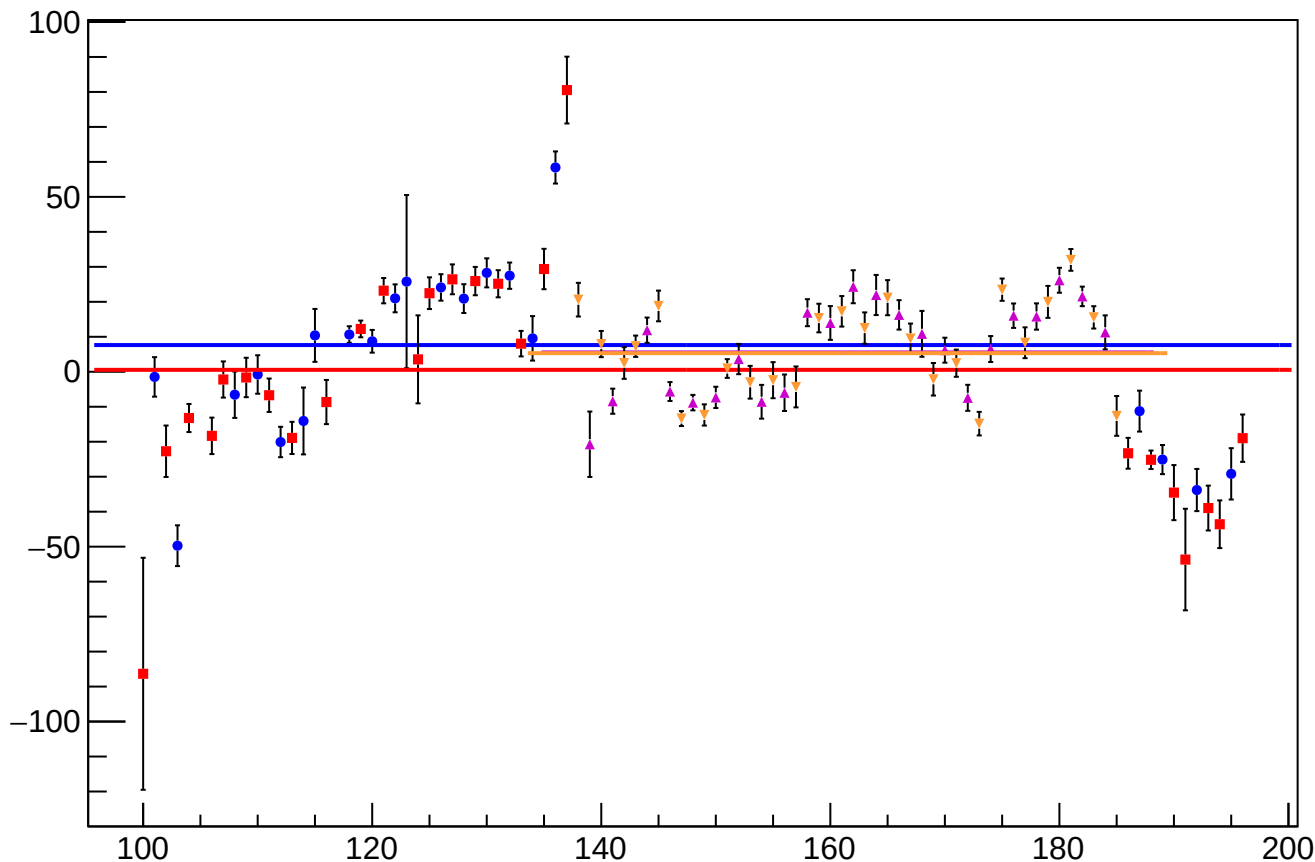
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 175.469 $\pm$ 2.213 χ^2 /NDF: 437.7/3
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24
 Right Out: 196.365 $\pm$ 1.459 χ^2 /NDF: 1499.8/6
 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: 190.035 $\pm$ 1.218 χ^2 /NDF: 1999.7/10
 In: 182.562 $\pm$ 0.904 χ^2 /NDF:4063.7/26
 Out: 180.278 $\pm$ 0.805 χ^2 /NDF:7520.7/31
 All: 181.287 $\pm$ 0.601 χ^2 /NDF: 11588.0/58

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.636 ± 1.002 χ^2/NDF : 514.4/20

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: 0.551 ± 0.916 χ^2/NDF : 612.9/25

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

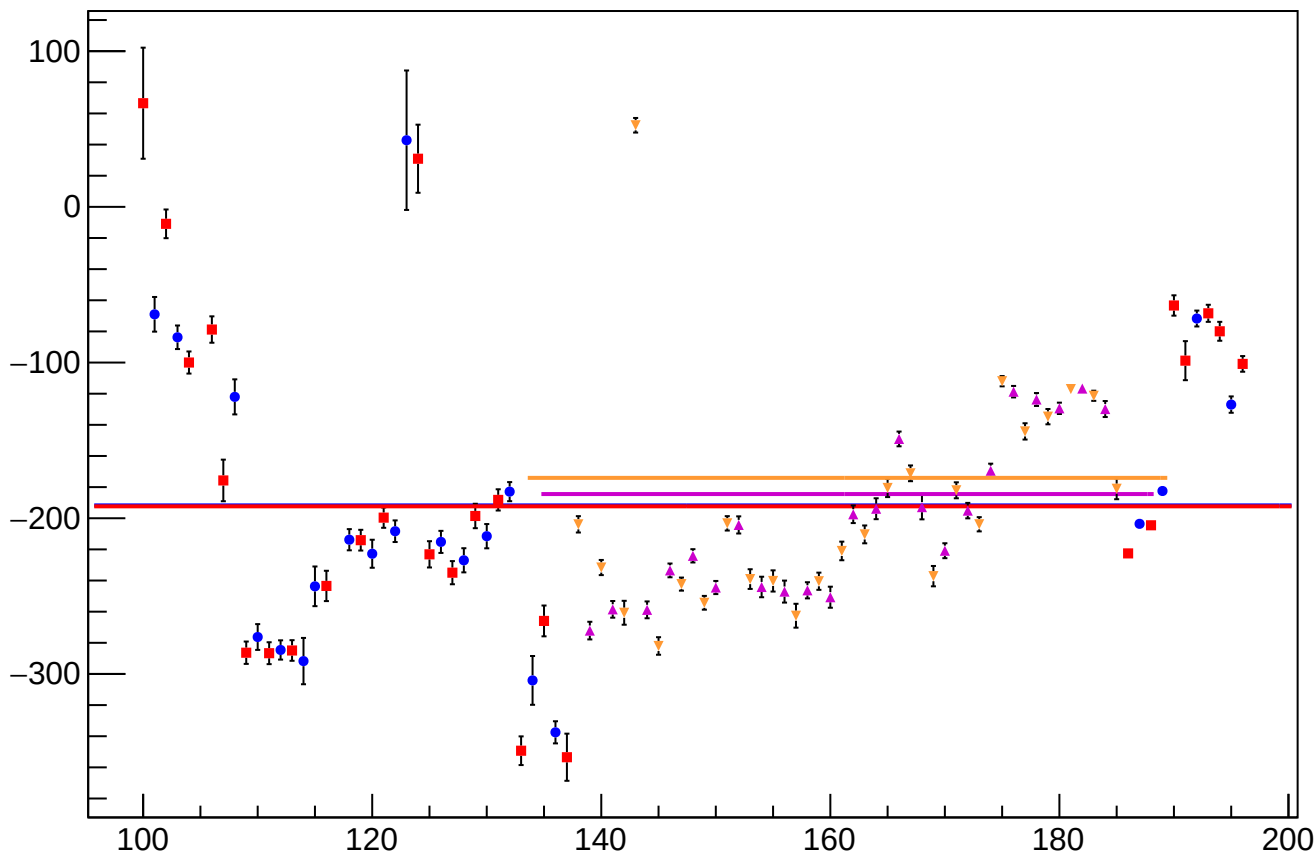
Right: 3.777 ± 0.676 χ^2/NDF : 1154.6/46

In: 6.325 ± 0.616 χ^2/NDF : 773.5/43

Out: 3.415 ± 0.579 χ^2/NDF : 974.7/50

All: 4.780 ± 0.422 χ^2/NDF : 1760.1/94

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -191.736 ± 1.368 $\chi^2/\text{NDF}: 2051.6/20$

Left Out: -174.061 ± 0.971 $\chi^2/\text{NDF}: 5443.3/24$

Right Out: -192.356 ± 1.017 $\chi^2/\text{NDF}: 3795.9/25$

Left In: -184.456 ± 0.991 $\chi^2/\text{NDF}: 3051.6/22$

Left: -179.154 ± 0.693 $\chi^2/\text{NDF}: 8551.0/47$

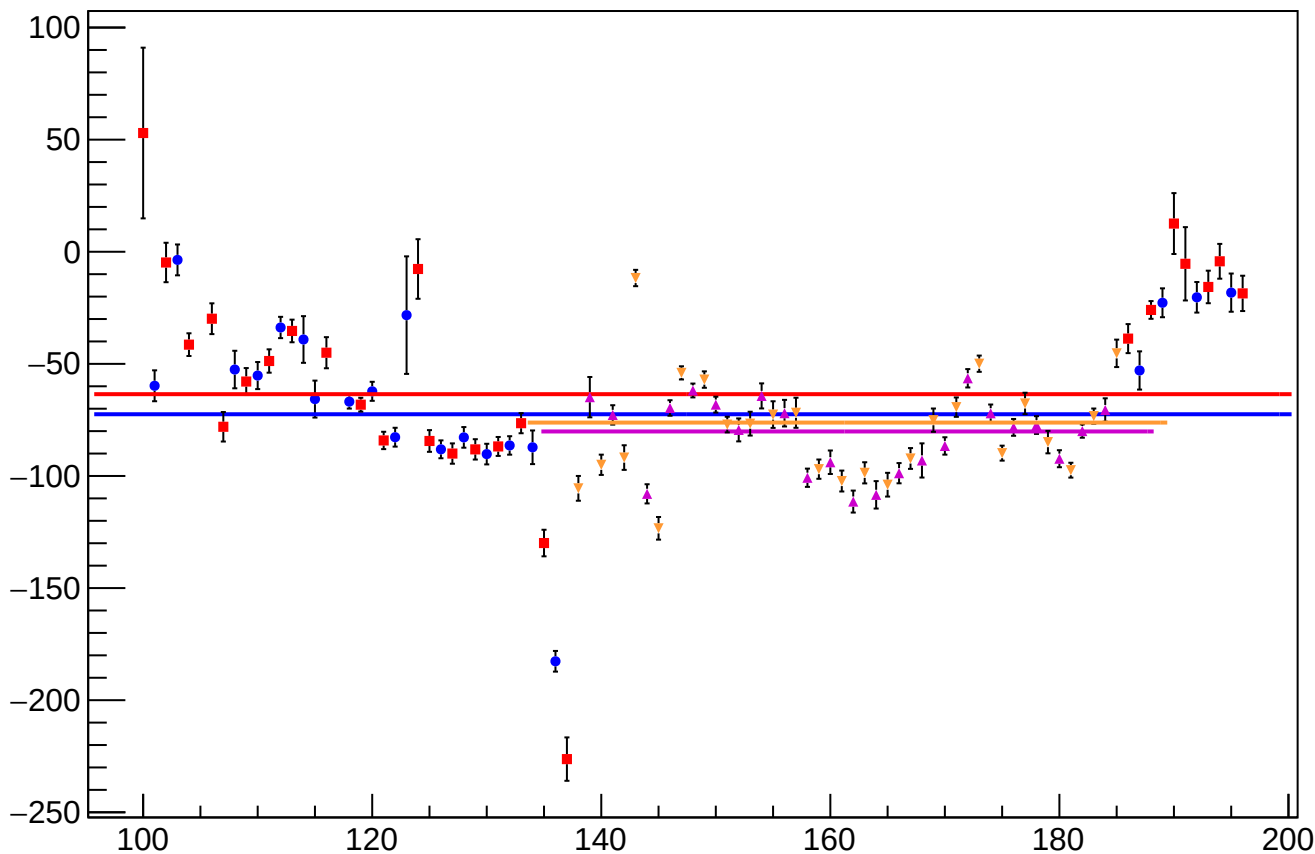
Right: -192.136 ± 0.816 $\chi^2/\text{NDF}: 5847.6/46$

In: -186.959 ± 0.802 $\chi^2/\text{NDF}: 5121.7/43$

Out: -182.788 ± 0.702 $\chi^2/\text{NDF}: 9408.5/50$

All: -184.596 ± 0.528 $\chi^2/\text{NDF}: 14545.6/94$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -72.470 ± 1.175 $\chi^2/\text{NDF}: 997.3/20$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -63.517 ± 1.095 $\chi^2/\text{NDF}: 1010.2/25$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

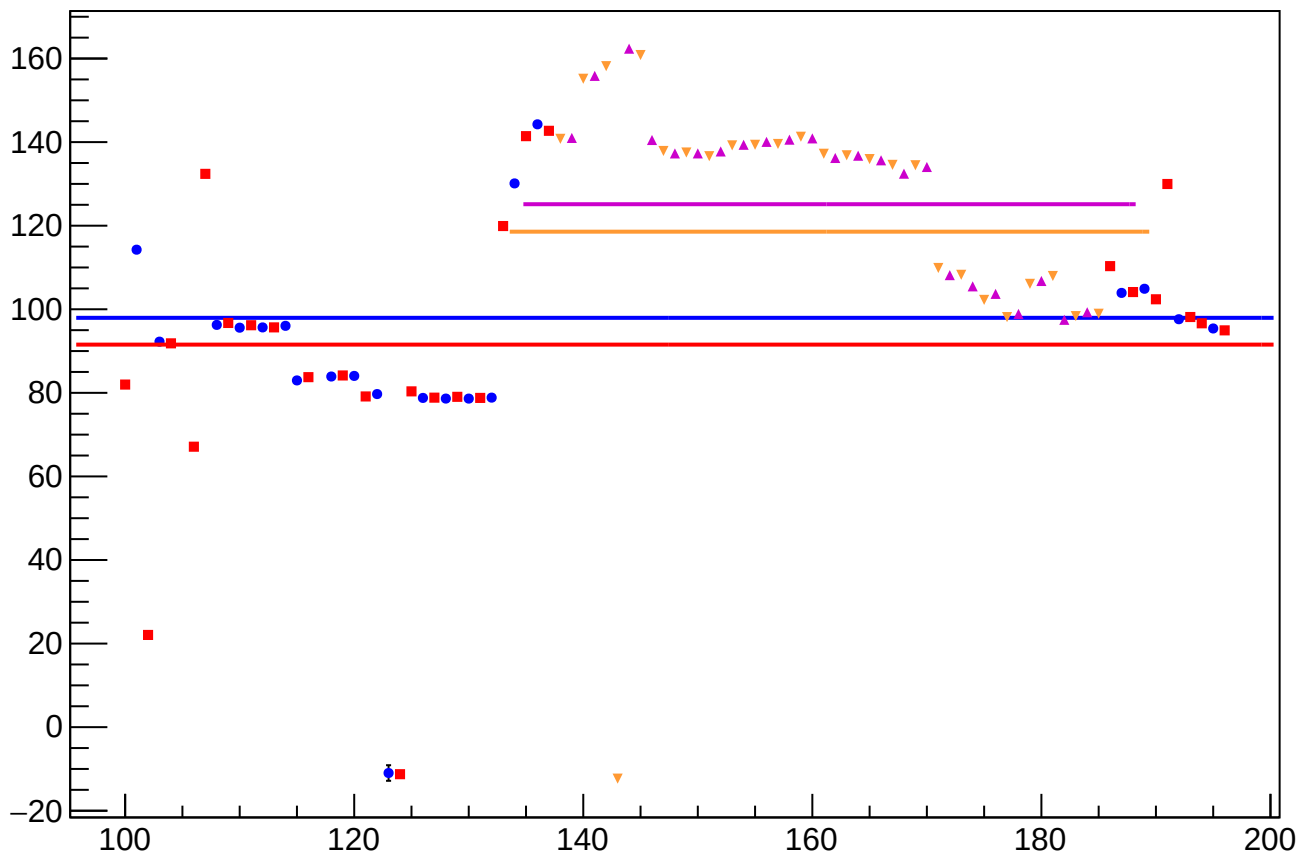
Right: -67.680 ± 0.801 $\chi^2/\text{NDF}: 2038.6/46$

In: -77.353 ± 0.709 $\chi^2/\text{NDF}: 1307.8/43$

Out: -71.372 ± 0.675 $\chi^2/\text{NDF}: 1894.1/50$

All: -74.216 ± 0.489 $\chi^2/\text{NDF}: 3239.2/94$

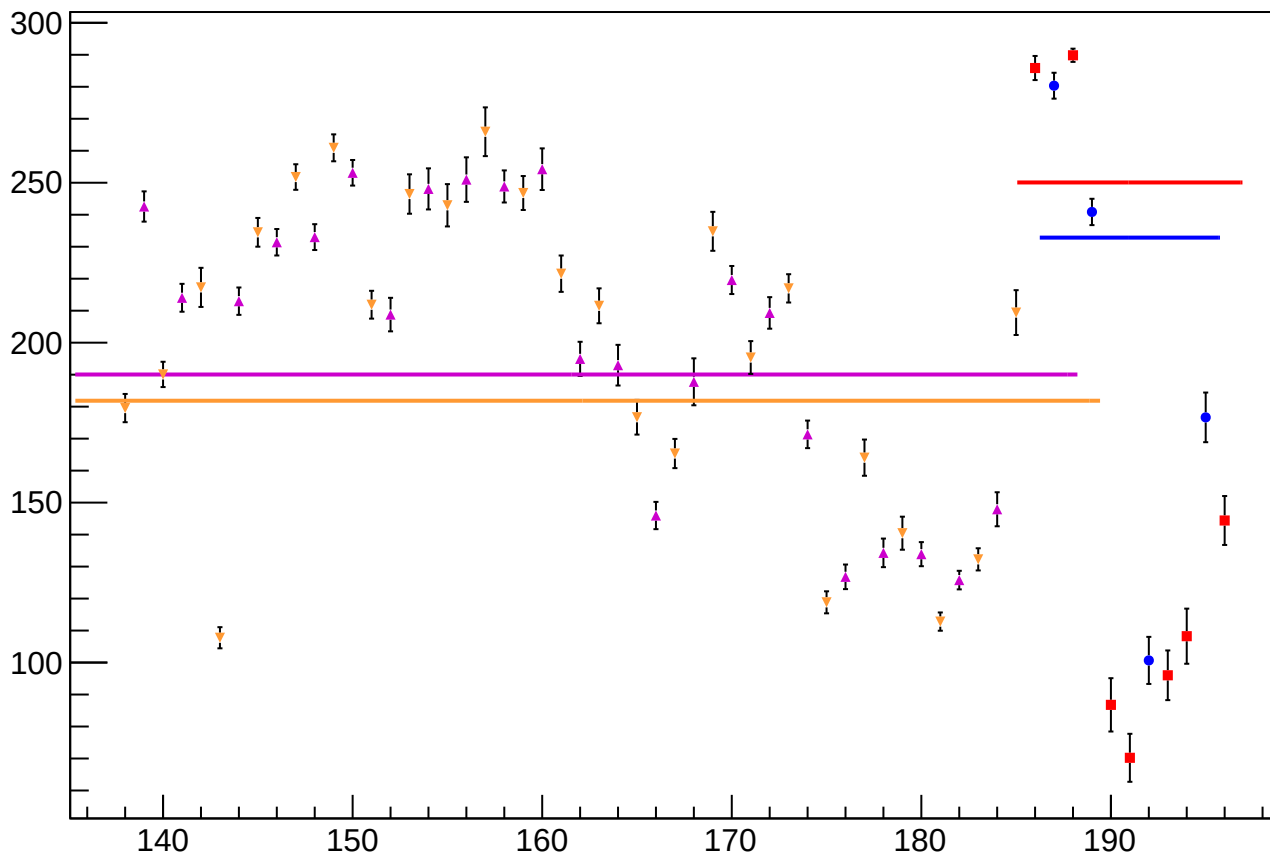
reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.952 ± 0.065 $\chi^2/\text{NDF}: 94693.5/20$
 Left Out: 118.569 ± 0.040 $\chi^2/\text{NDF}: 728689.7/24$
 Right Out: 91.542 ± 0.057 $\chi^2/\text{NDF}: 239745.0/25$
 Left In: 125.139 ± 0.041 $\chi^2/\text{NDF}: 220927.1/22$

Left: 121.790 ± 0.029 $\chi^2/\text{NDF}: 962526.8/47$
 Right: 94.314 ± 0.043 $\chi^2/\text{NDF}: 339917.8/46$
 In: 117.366 ± 0.035 $\chi^2/\text{NDF}: 439624.4/43$
 Out: 109.493 ± 0.033 $\chi^2/\text{NDF}: 1118036.3/50$
 All: 113.211 ± 0.024 $\chi^2/\text{NDF}: 1584538.6/94$

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 185.775 $\pm$ 0.659 χ^2/NDF : 5780.3/47

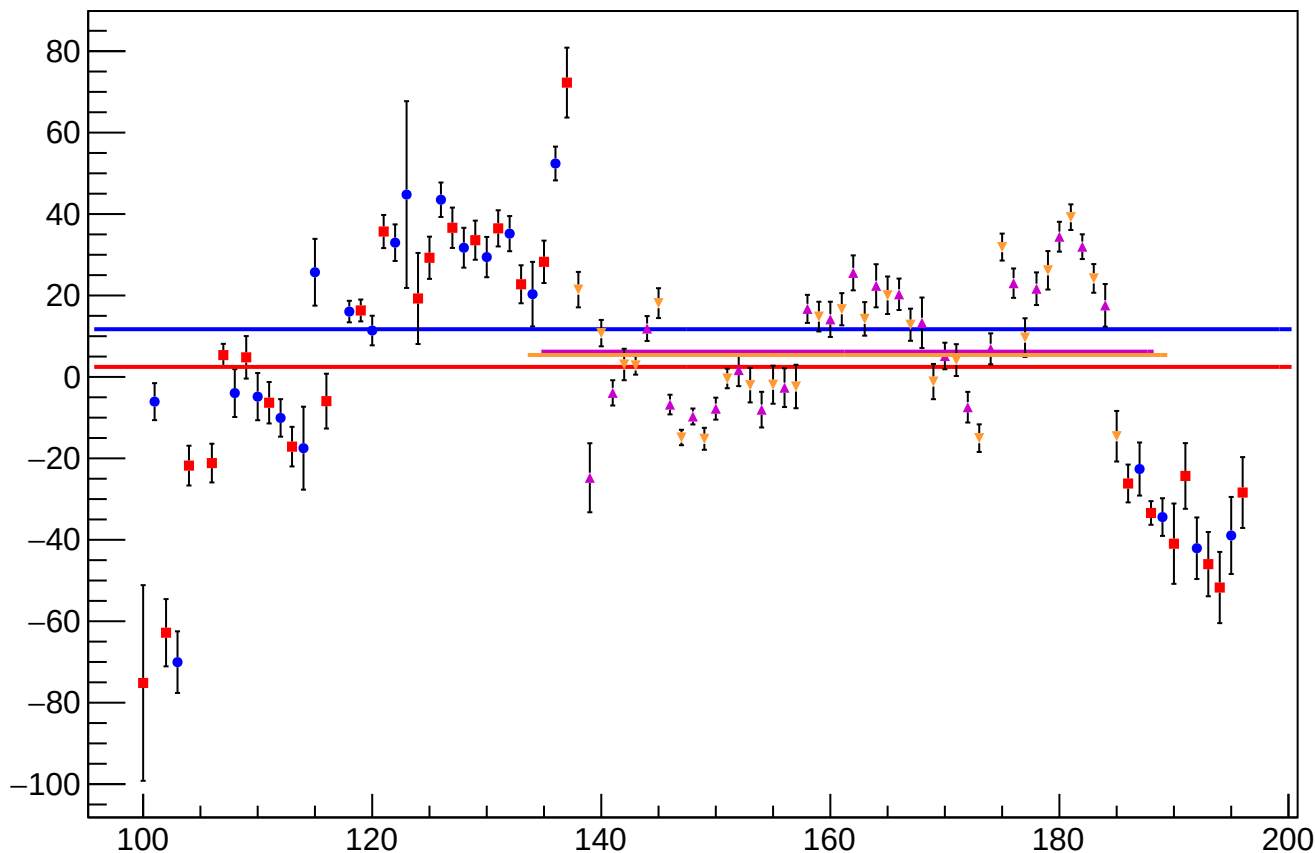
Right: 245.120 $\pm$ 1.362 χ^2/NDF : 2823.5/10

In: 195.334 $\pm$ 0.892 χ^2/NDF : 3204.1/26

Out: 198.393 $\pm$ 0.795 χ^2/NDF : 6930.6/31

All: 197.039 $\pm$ 0.594 χ^2/NDF : 10141.3/58

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.716+/-1.096 χ^2/NDF : 627.8/20

Left Out: 5.394+/-0.688 χ^2/NDF : 526.5/24

Right Out: 2.463+/-0.961 χ^2/NDF : 834.4/25

Left In: 6.206+/-0.732 χ^2/NDF : 407.5/22

Left: 5.775+/-0.501 χ^2/NDF : 934.7/47

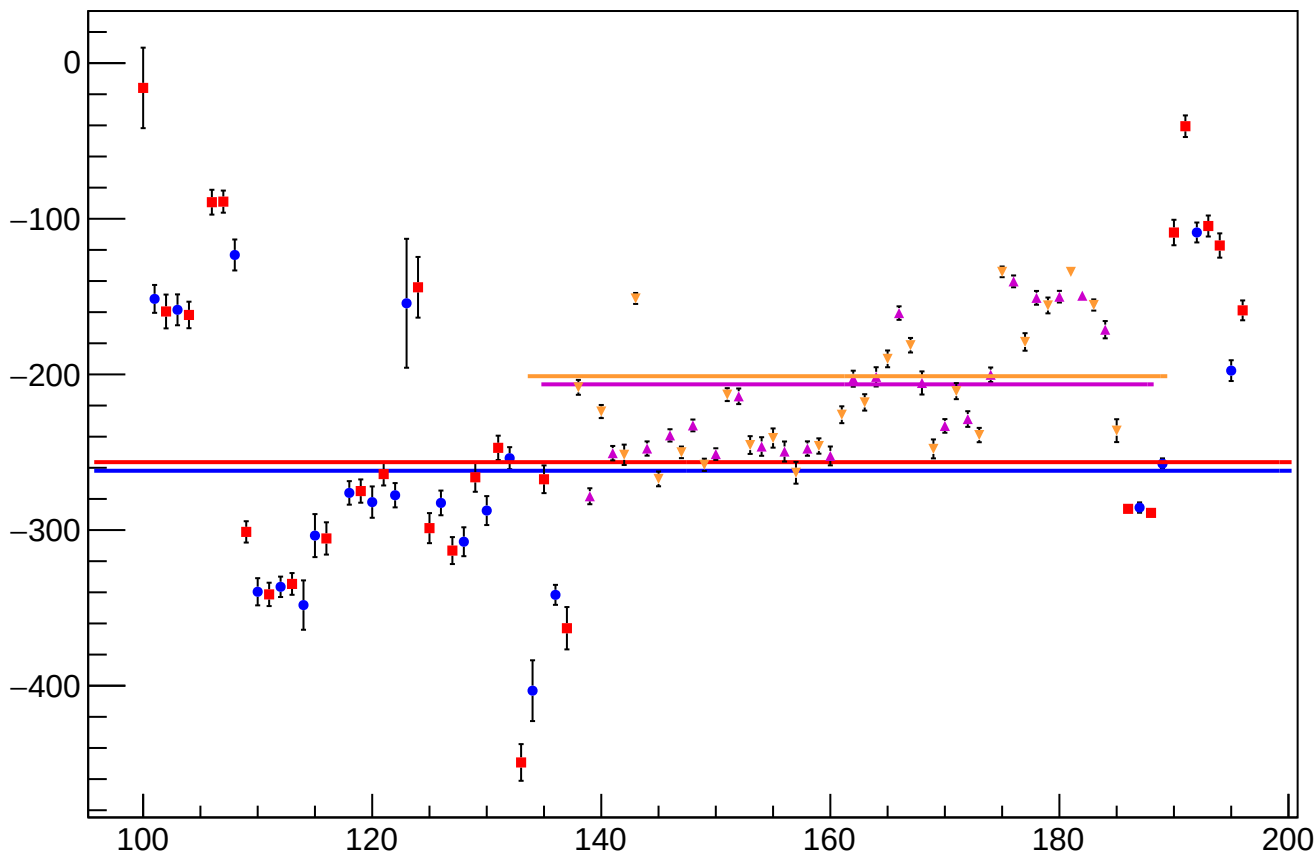
Right: 6.483+/-0.723 χ^2/NDF : 1502.5/46

In: 7.904+/-0.609 χ^2/NDF : 1052.8/43

Out: 4.400+/-0.559 χ^2/NDF : 1367.0/50

All: 6.005+/-0.412 χ^2/NDF : 2437.8/94

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -261.898 ± 1.522 $\chi^2/\text{NDF}: 1683.9/20$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -256.363 ± 1.107 $\chi^2/\text{NDF}: 4869.6/25$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

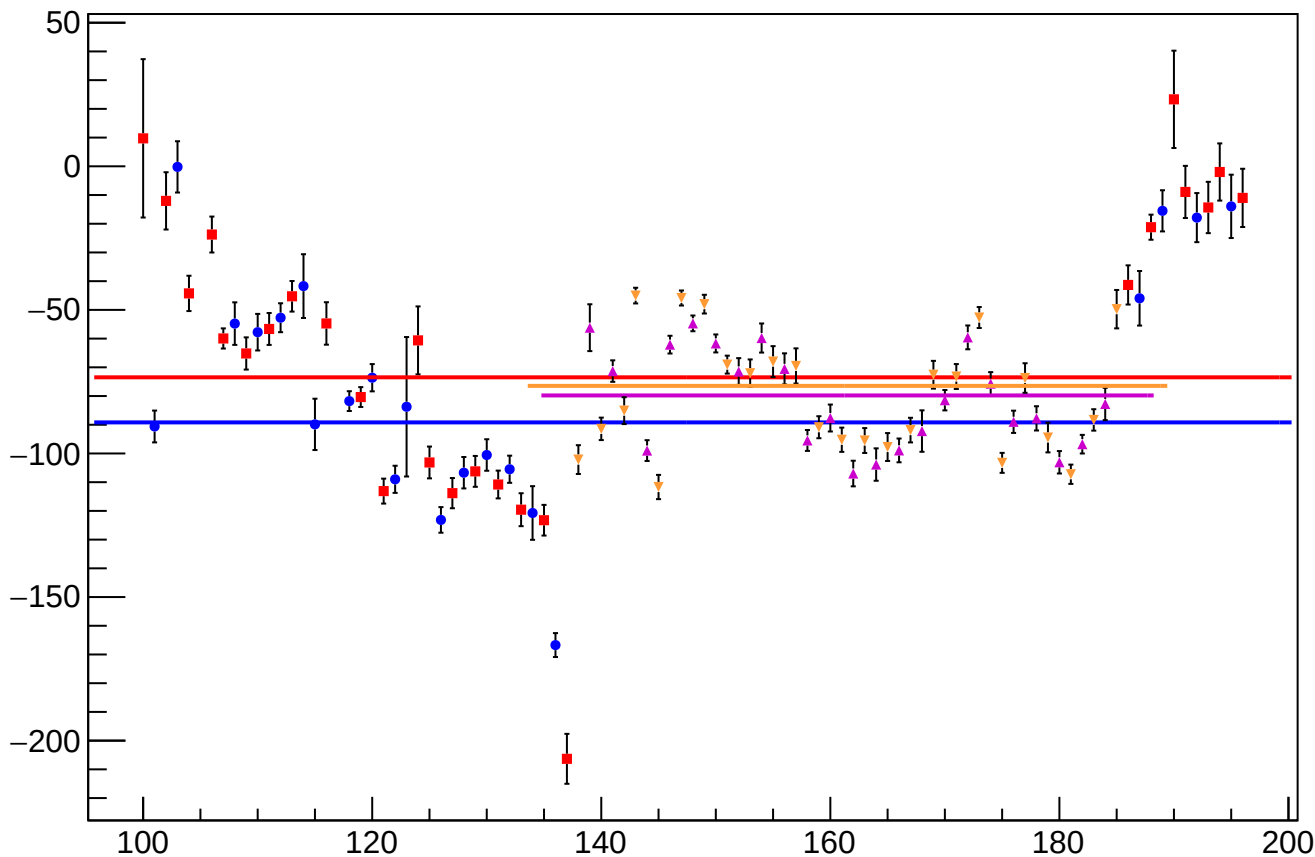
Right: -258.278 ± 0.895 $\chi^2/\text{NDF}: 6562.1/46$

In: -221.933 ± 0.806 $\chi^2/\text{NDF}: 4753.2/43$

Out: -223.640 ± 0.707 $\chi^2/\text{NDF}: 8833.0/50$

All: -222.898 ± 0.531 $\chi^2/\text{NDF}: 13588.7/94$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -89.183 ± 1.284 $\chi^2/\text{NDF}: 933.9/20$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -73.483 ± 1.152 $\chi^2/\text{NDF}: 1232.8/25$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

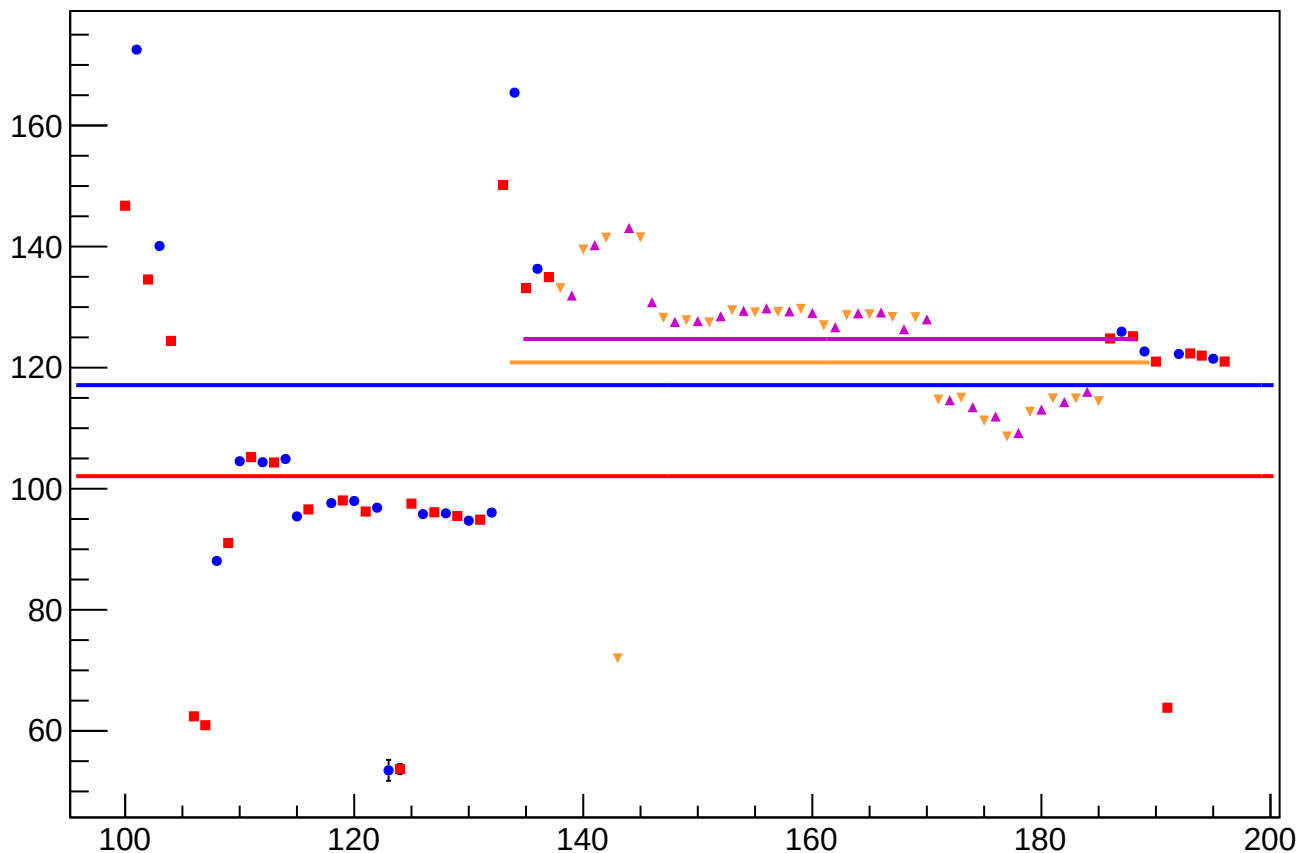
Right: -80.487 ± 0.858 $\chi^2/\text{NDF}: 2249.5/46$

In: -82.605 ± 0.703 $\chi^2/\text{NDF}: 1383.7/43$

Out: -75.497 ± 0.655 $\chi^2/\text{NDF}: 2018.6/50$

All: -78.803 ± 0.479 $\chi^2/\text{NDF}: 3457.0/94$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.110 $\pm$ 0.071 χ^2 /NDF: 106915.6/20

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 102.074 $\pm$ 0.059 χ^2 /NDF: 225432.0/25

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

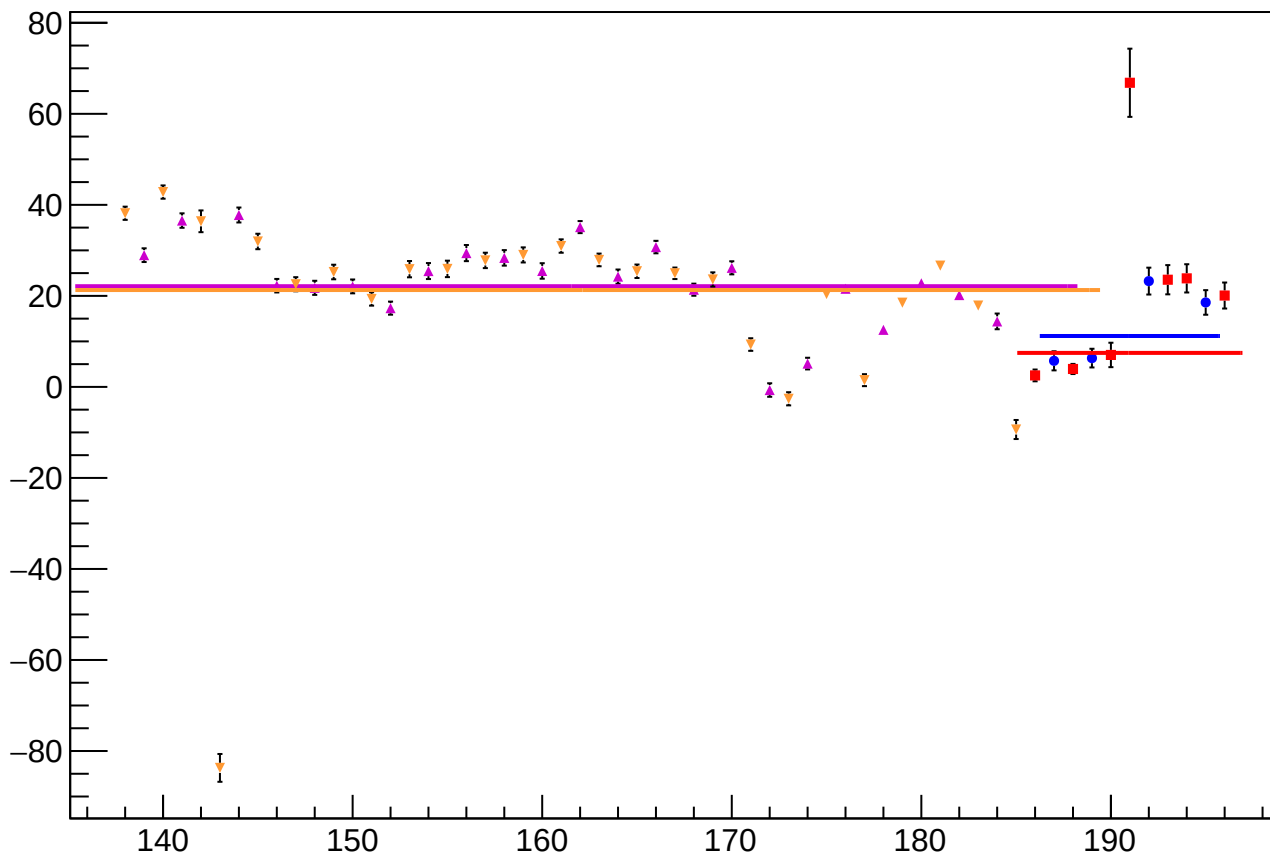
Right: 108.150 $\pm$ 0.045 χ^2 /NDF: 358780.4/46

In: 122.968 $\pm$ 0.034 χ^2 /NDF:166978.0/43

Out: 115.309 $\pm$ 0.032 χ^2 /NDF:480112.7/50

All: 118.856 $\pm$ 0.023 χ^2 /NDF: 673707.2/94

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.186 $\pm$ 1.181 χ^2 /NDF: 36.5/3

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 7.471 $\pm$ 0.729 χ^2 /NDF: 159.8/6

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

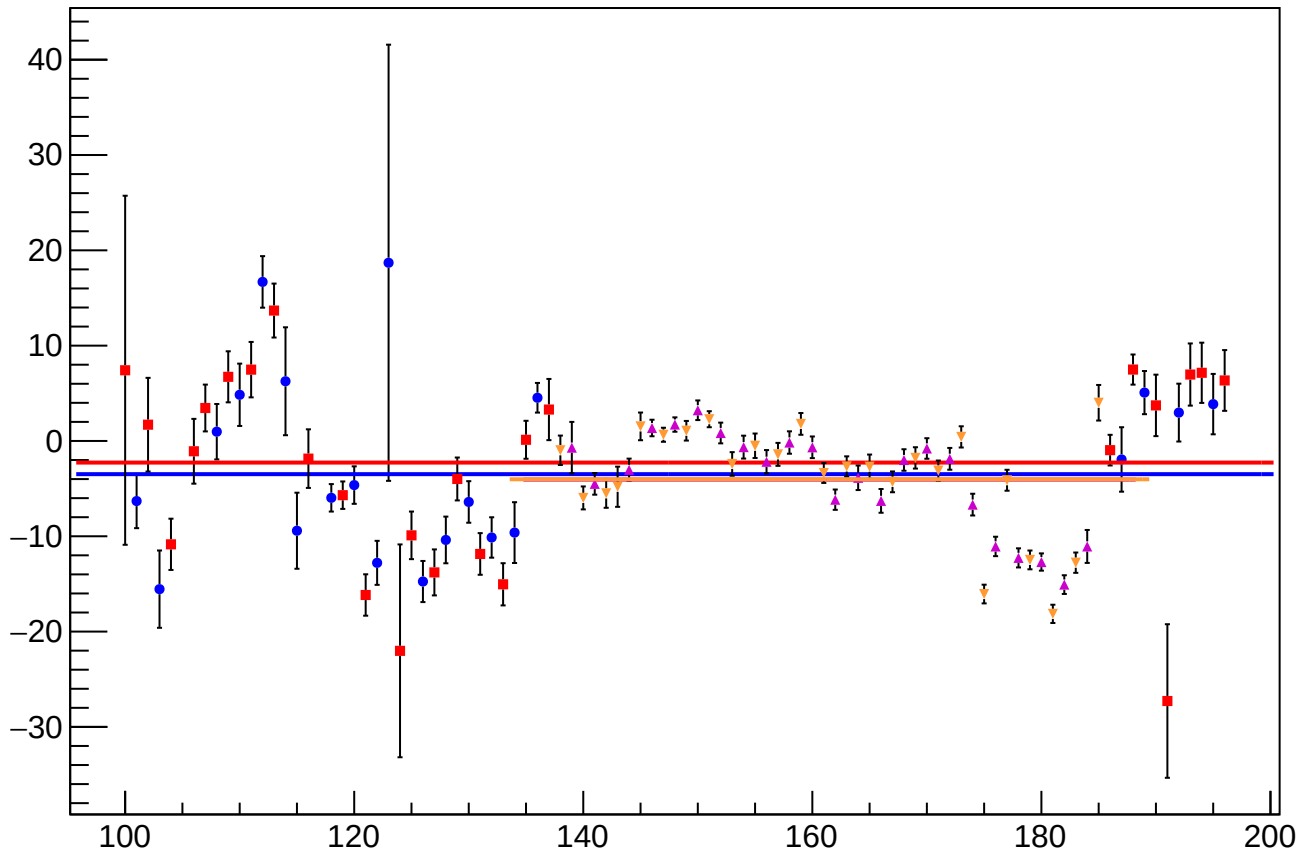
Right: 8.496 $\pm$ 0.620 χ^2 /NDF: 203.5/10

In: 21.523 $\pm$ 0.277 χ^2 /NDF:1017.8/26

Out: 19.479 $\pm$ 0.263 χ^2 /NDF:3072.6/31

All: 20.447 $\pm$ 0.191 χ^2 /NDF: 4118.9/58

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.484 ± 0.544 $\chi^2/\text{NDF}: 201.4/20$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -2.268 ± 0.493 $\chi^2/\text{NDF}: 286.5/25$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

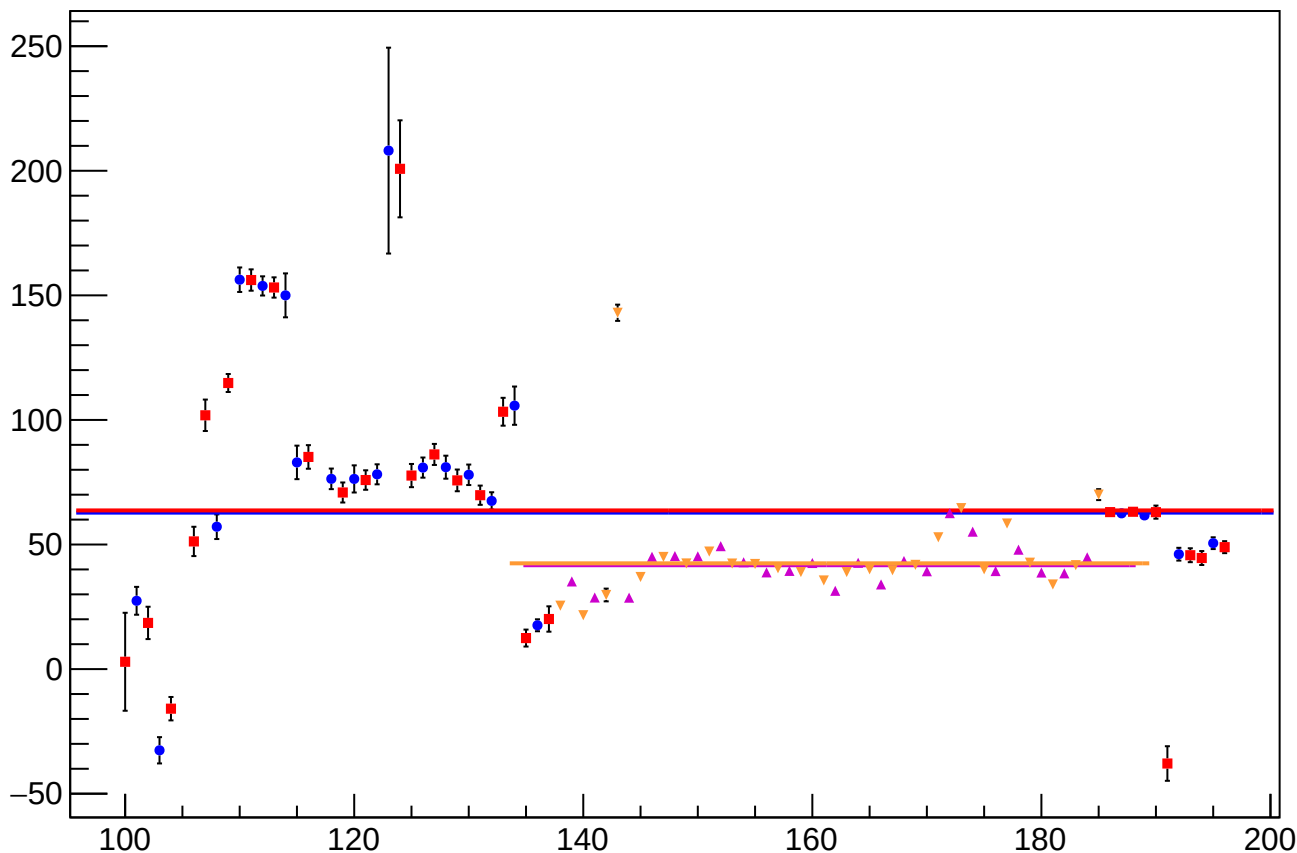
Right: -2.816 ± 0.366 $\chi^2/\text{NDF}: 490.6/46$

In: -3.973 ± 0.210 $\chi^2/\text{NDF}: 779.6/43$

Out: -3.724 ± 0.203 $\chi^2/\text{NDF}: 1031.1/50$

All: -3.844 ± 0.146 $\chi^2/\text{NDF}: 1811.4/94$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 62.805 ± 0.738 χ^2/NDF : 1945.4/20

Left Out: 42.452 ± 0.282 χ^2/NDF : 2016.0/24

Right Out: 63.684 ± 0.525 χ^2/NDF : 2356.4/25

Left In: 41.695 ± 0.284 χ^2/NDF : 630.2/22

Left: 42.077 ± 0.200 χ^2/NDF : 2649.8/47

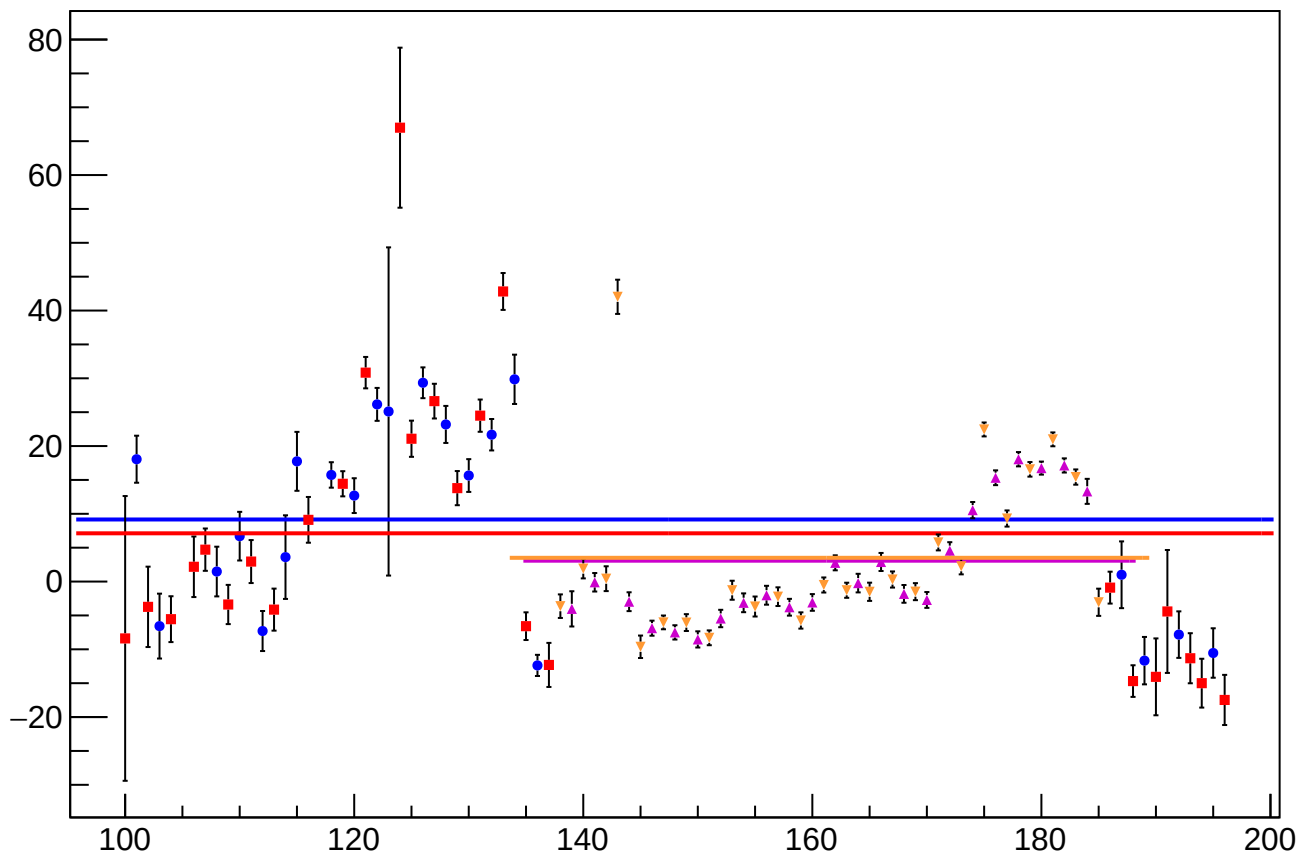
Right: 63.388 ± 0.428 χ^2/NDF : 4302.7/46

In: 44.423 ± 0.265 χ^2/NDF : 3288.9/43

Out: 47.205 ± 0.248 χ^2/NDF : 5642.1/50

All: 45.905 ± 0.181 χ^2/NDF : 8989.6/94

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.163+/-0.629 χ^2/NDF : 577.2/20

Left Out: 3.505+/-0.252 χ^2/NDF :1691.3/24

Right Out: 7.122+/-0.588 χ^2/NDF : 813.5/25

Left In: 3.081+/-0.257 χ^2/NDF :1265.7/22

Left: 3.297+/-0.180 χ^2/NDF : 2958.4/47

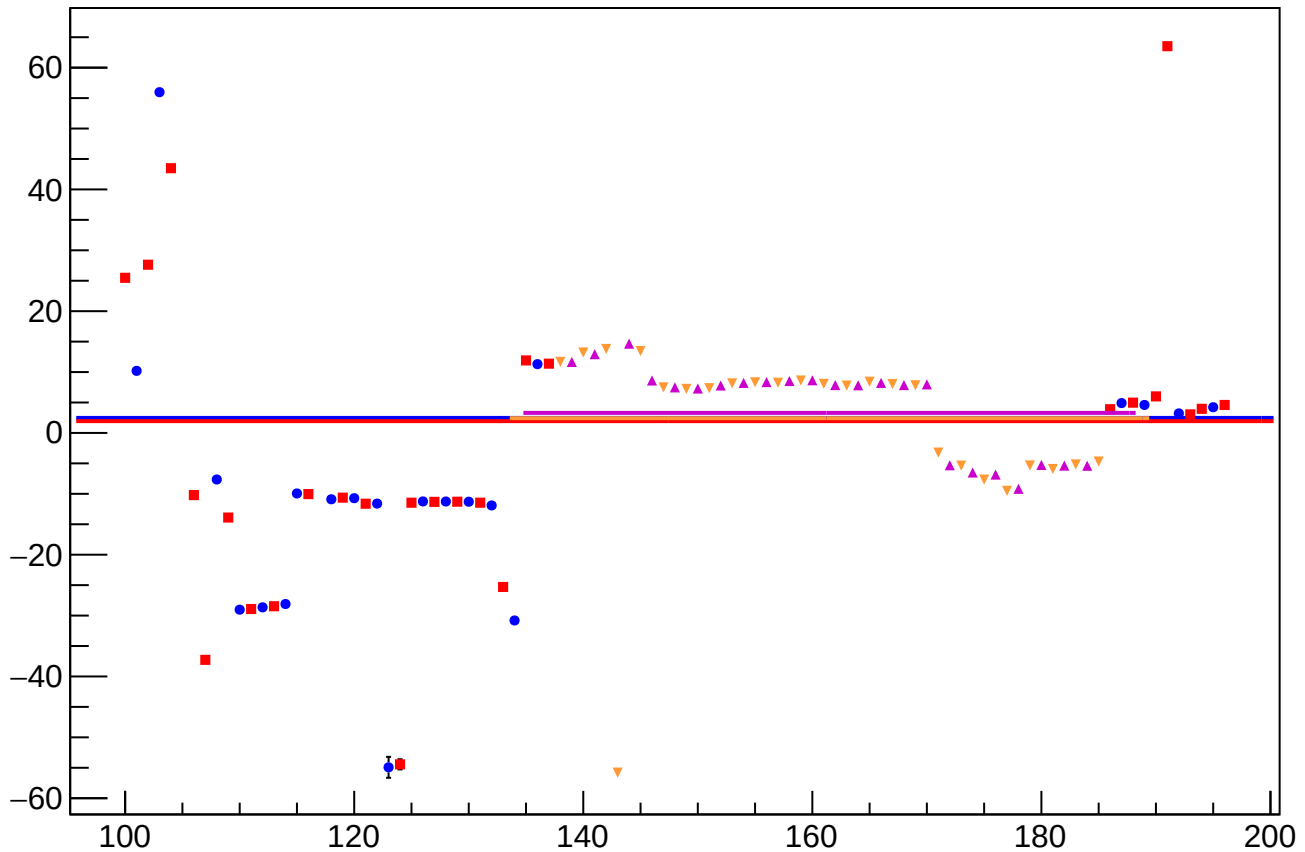
Right: 8.075+/-0.429 χ^2/NDF : 1396.3/46

In: 3.952+/-0.238 χ^2/NDF :1923.1/43

Out: 4.067+/-0.232 χ^2/NDF :2536.7/50

All: 4.011+/-0.166 χ^2/NDF : 4459.9/94

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.468 $\pm$ 0.032 χ^2 /NDF: 358612.5/20

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 1.940 $\pm$ 0.030 χ^2 /NDF: 429541.2/25

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

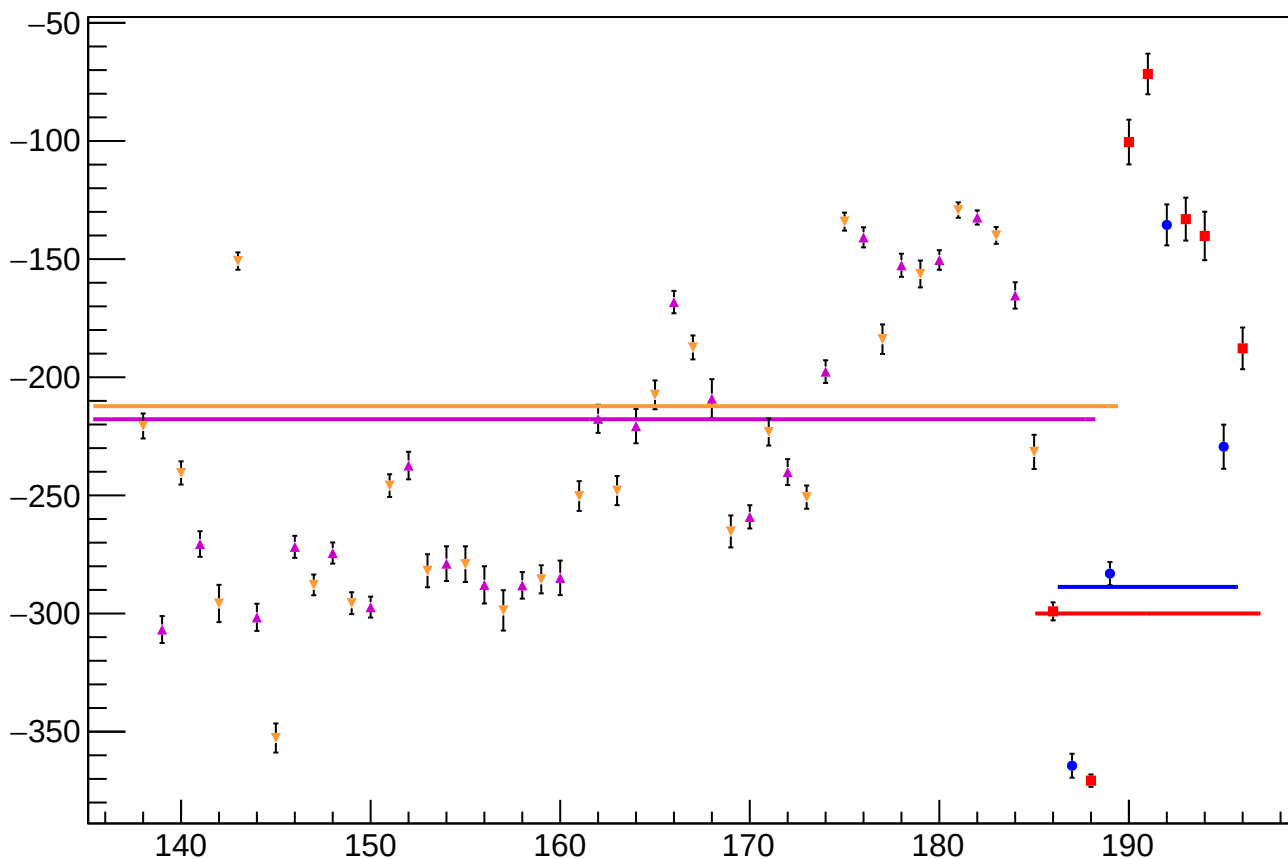
Right: 2.181 $\pm$ 0.022 χ^2 /NDF: 788297.5/46

In: 3.198 $\pm$ 0.011 χ^2 /NDF: 763507.8/43

Out: 2.362 $\pm$ 0.011 χ^2 /NDF: 1046154.5/50

All: 2.773 $\pm$ 0.008 χ^2 /NDF: 1812622.3/94

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -288.738 ± 3.079 $\chi^2/\text{NDF}: 577.6/3$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -299.980 ± 1.908 $\chi^2/\text{NDF}: 2626.6/6$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

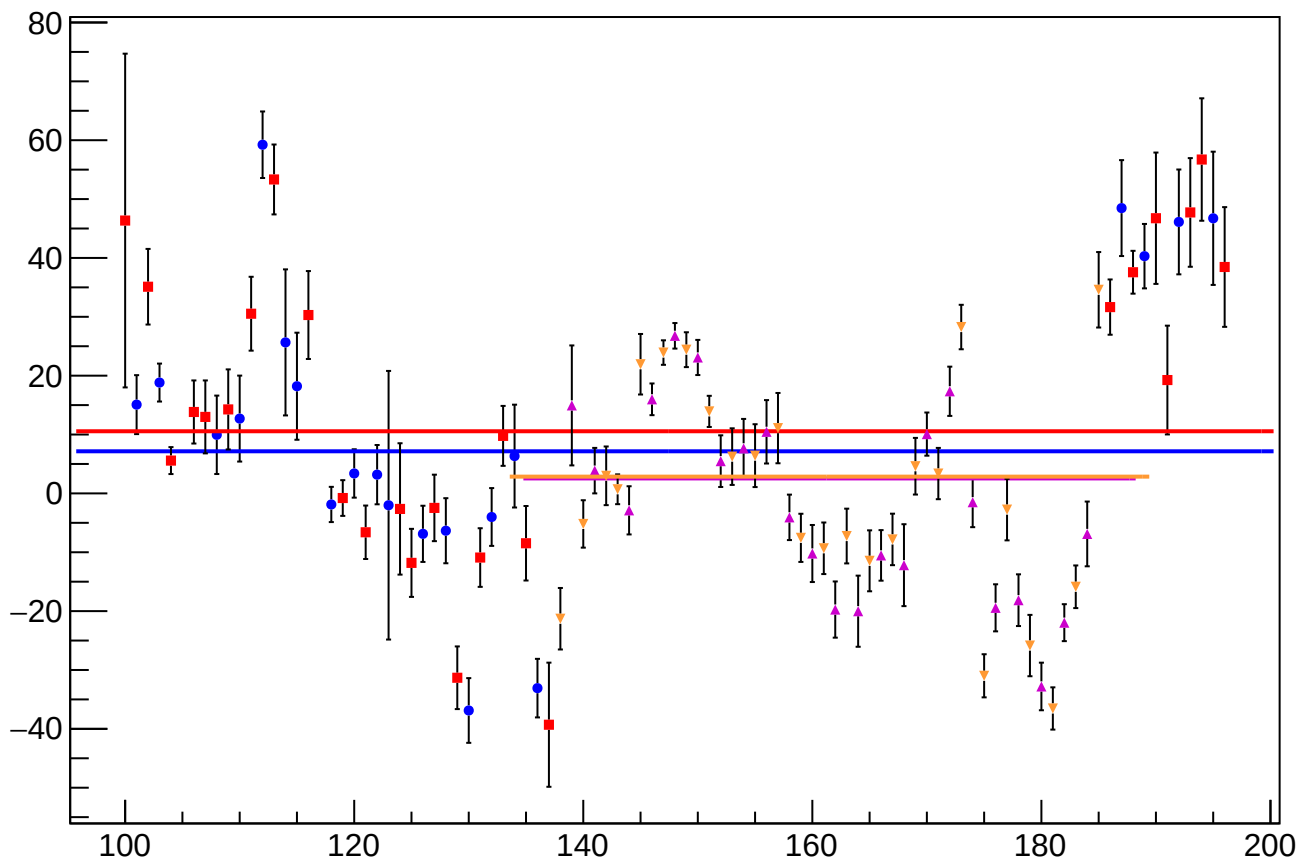
Right: -296.861 ± 1.622 $\chi^2/\text{NDF}: 3213.8/10$

In: -225.383 ± 1.008 $\chi^2/\text{NDF}: 4500.7/26$

Out: -232.011 ± 0.906 $\chi^2/\text{NDF}: 8139.8/31$

All: -229.049 ± 0.674 $\chi^2/\text{NDF}: 12664.4/58$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.153 ± 1.184 $\chi^2/\text{NDF}: 358.8/20$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 10.557 ± 1.045 $\chi^2/\text{NDF}: 382.8/25$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

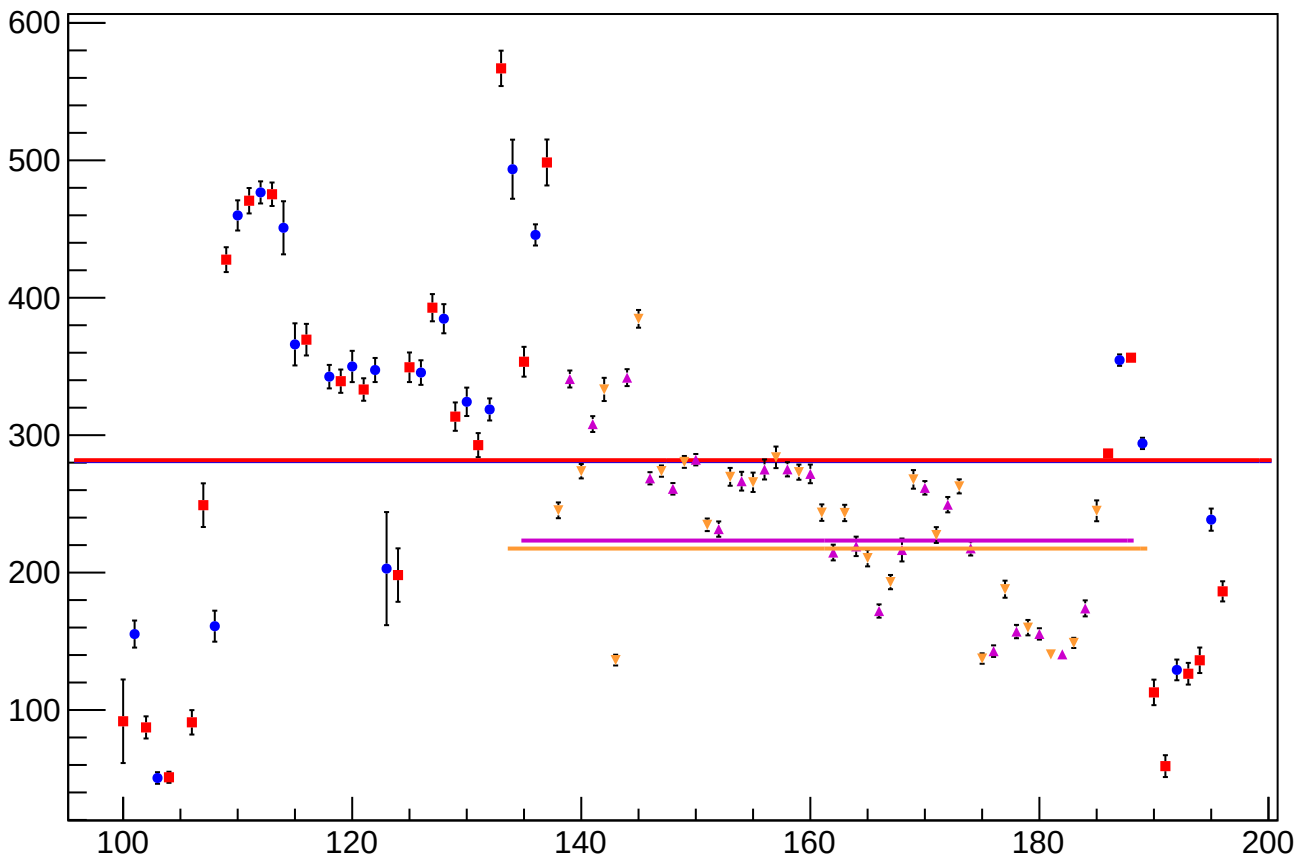
Right: 9.067 ± 0.783 $\chi^2/\text{NDF}: 746.2/46$

In: 4.041 ± 0.676 $\chi^2/\text{NDF}: 842.7/43$

Out: 5.583 ± 0.622 $\chi^2/\text{NDF}: 1000.1/50$

All: 4.875 ± 0.458 $\chi^2/\text{NDF}: 1845.5/94$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 281.108 ± 1.678 $\chi^2/\text{NDF}: 5861.9/20$

Left Out: 217.484 ± 1.032 $\chi^2/\text{NDF}: 3769.5/24$

Right Out: 281.785 ± 1.251 $\chi^2/\text{NDF}: 9771.0/25$

Left In: 223.309 ± 1.062 $\chi^2/\text{NDF}: 3378.0/22$

Left: 220.314 ± 0.740 $\chi^2/\text{NDF}: 7163.0/47$

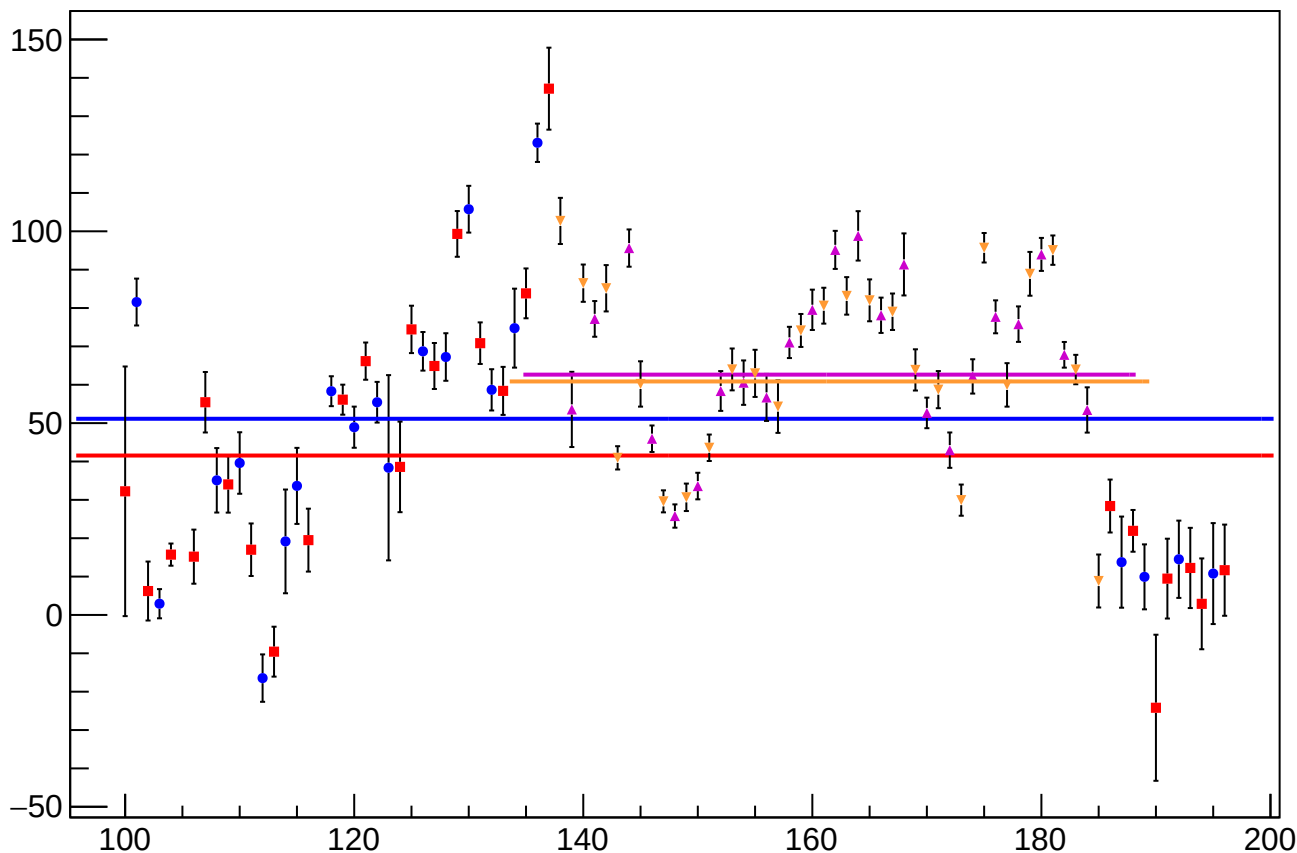
Right: 281.544 ± 1.003 $\chi^2/\text{NDF}: 15633.0/46$

In: 239.836 ± 0.897 $\chi^2/\text{NDF}: 10087.0/43$

Out: 243.537 ± 0.796 $\chi^2/\text{NDF}: 15112.4/50$

All: 241.907 ± 0.596 $\chi^2/\text{NDF}: 25208.9/94$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 51.134 $\pm$ 1.389 χ^2 /NDF: 693.7/20

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF:731.6/24

Right Out: 41.553 $\pm$ 1.258 χ^2 /NDF: 599.9/25

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

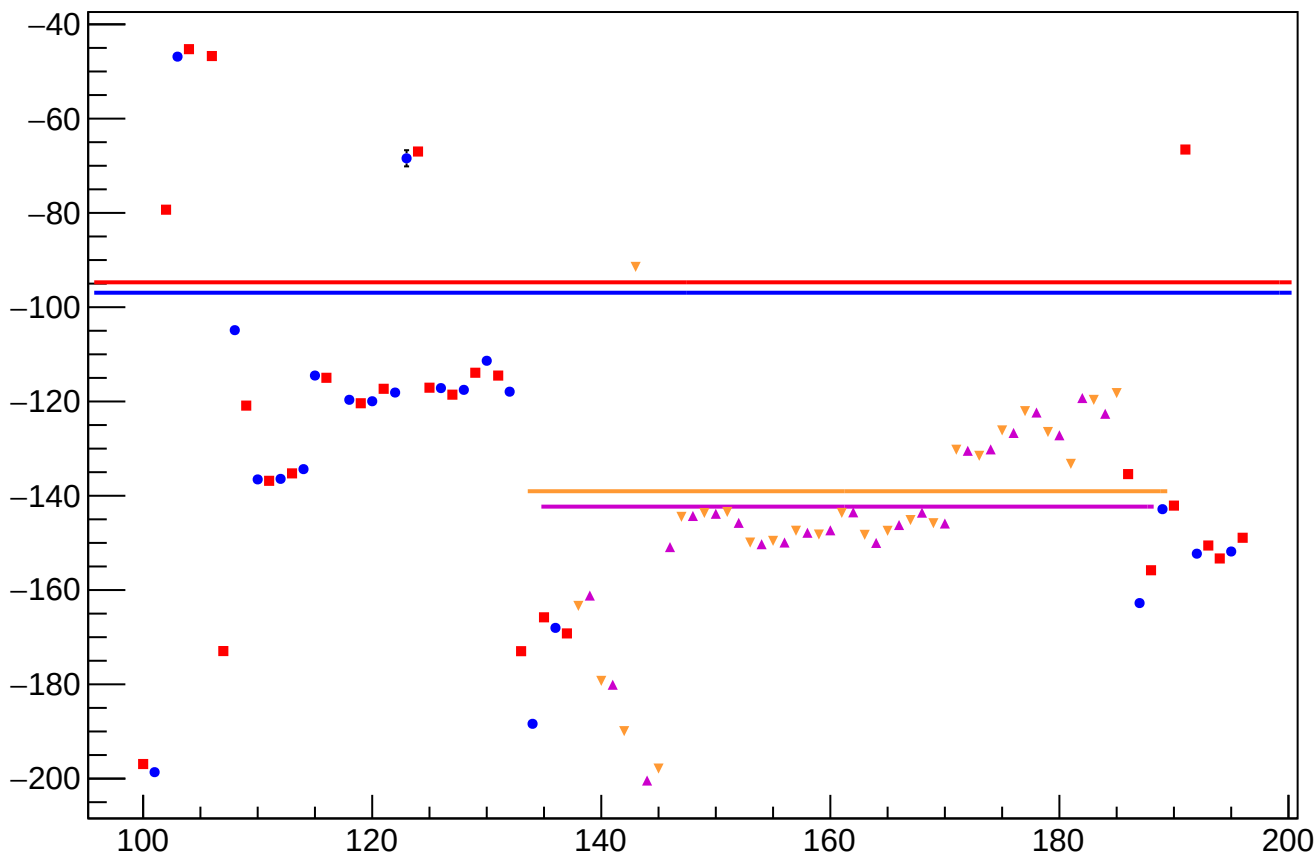
Right: 45.872 $\pm$ 0.933 χ^2 /NDF: 1319.7/46

In: 59.011 $\pm$ 0.780 χ^2 /NDF:1256.1/43

Out: 54.360 $\pm$ 0.730 χ^2 /NDF:1487.7/50

All: 56.533 $\pm$ 0.533 χ^2 /NDF: 2762.8/94

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -96.931 $\pm$ 0.064 χ^2 /NDF: 613210.6/20

Left Out: -139.040 $\pm$ 0.043 χ^2 /NDF:258113.4/24

Right Out: -94.724 $\pm$ 0.058 χ^2 /NDF: 662494.6/25

Left In: -142.305 $\pm$ 0.044 χ^2 /NDF:143351.8/22

Left: -140.627 $\pm$ 0.031 χ^2 /NDF: 404285.9/47

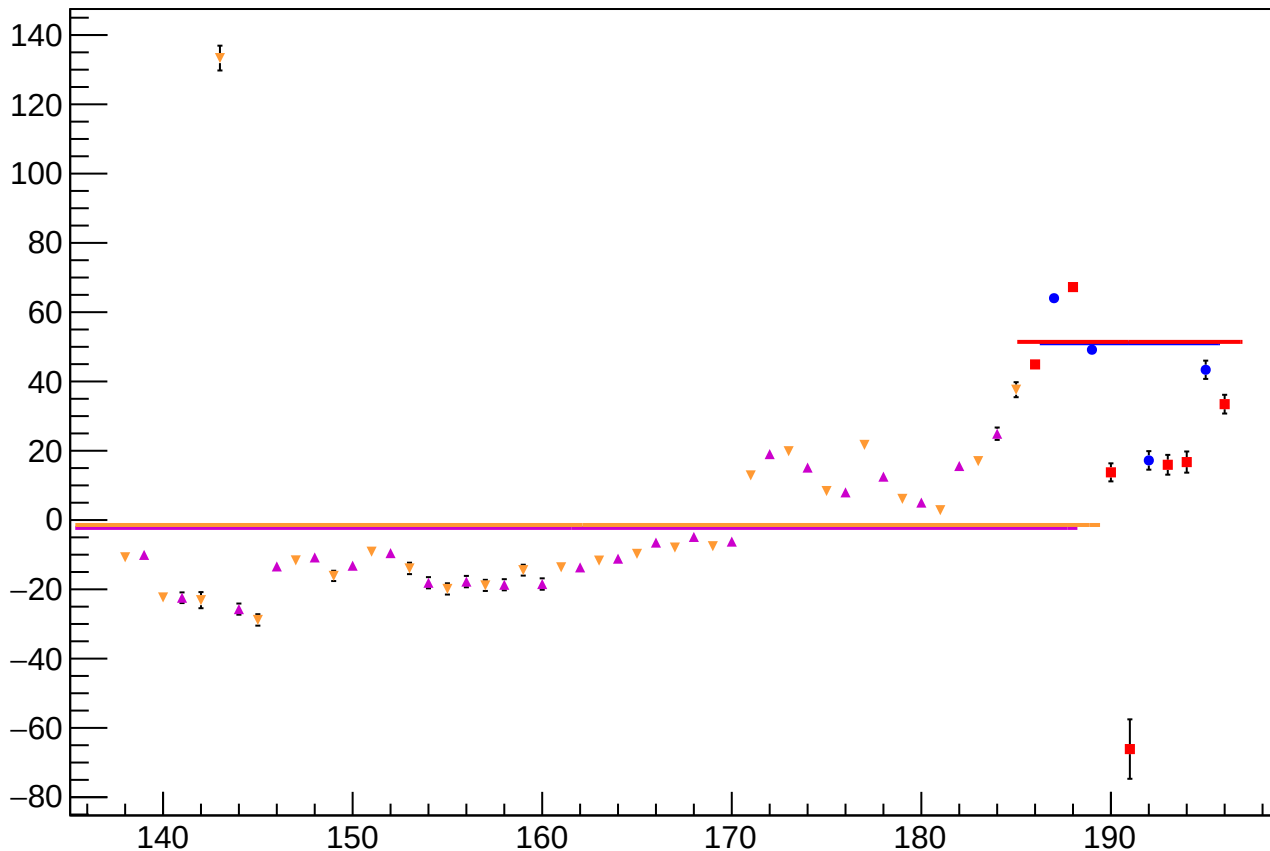
Right: -95.724 $\pm$ 0.043 χ^2 /NDF: 1276350.7/46

In: -127.787 $\pm$ 0.036 χ^2 /NDF:1095628.1/43

Out: -123.539 $\pm$ 0.035 χ^2 /NDF:1294404.1/50

All: -125.556 $\pm$ 0.025 χ^2 /NDF: 2397204.8/94

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 51.032+/-0.887 χ^2/NDF : 257.0/3

Left Out: -1.427+/-0.268 χ^2/NDF : 4339.0/24

Right Out: 51.426+/-0.532 χ^2/NDF : 1198.1/6

Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47

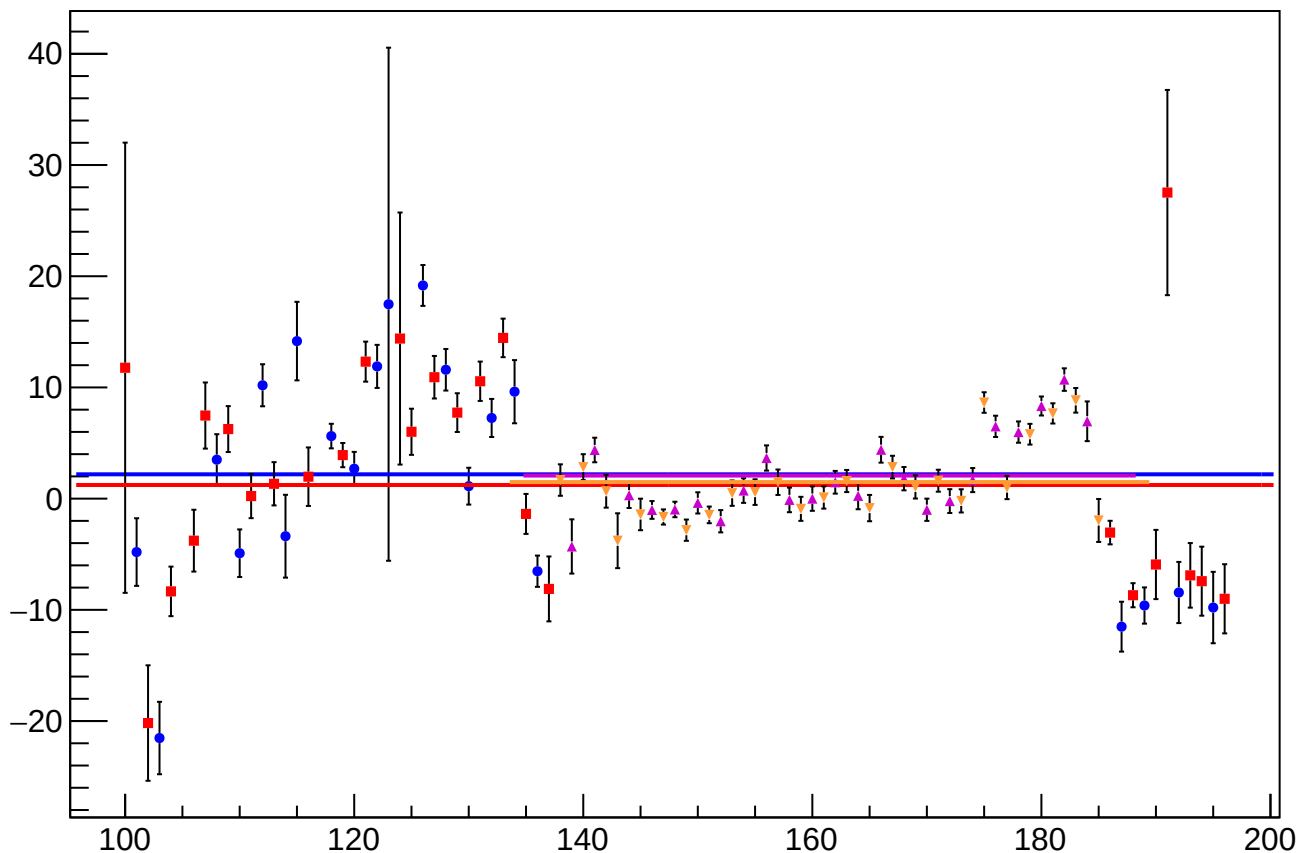
Right: 51.322+/-0.456 χ^2/NDF : 1455.2/10

In: 2.271+/-0.259 χ^2/NDF : 6080.5/26

Out: 9.245+/-0.239 χ^2/NDF : 13411.9/31

All: 6.035+/-0.176 χ^2/NDF : 19883.9/58

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.187 $\pm$ 0.435 χ^2 /NDF: 420.6/20

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 1.226 $\pm$ 0.388 χ^2 /NDF: 378.2/25

Left In: 2.075 $\pm$ 0.215 χ^2 /NDF:274.6/22

Left: 1.776 $\pm$ 0.150 χ^2 /NDF: 537.4/47

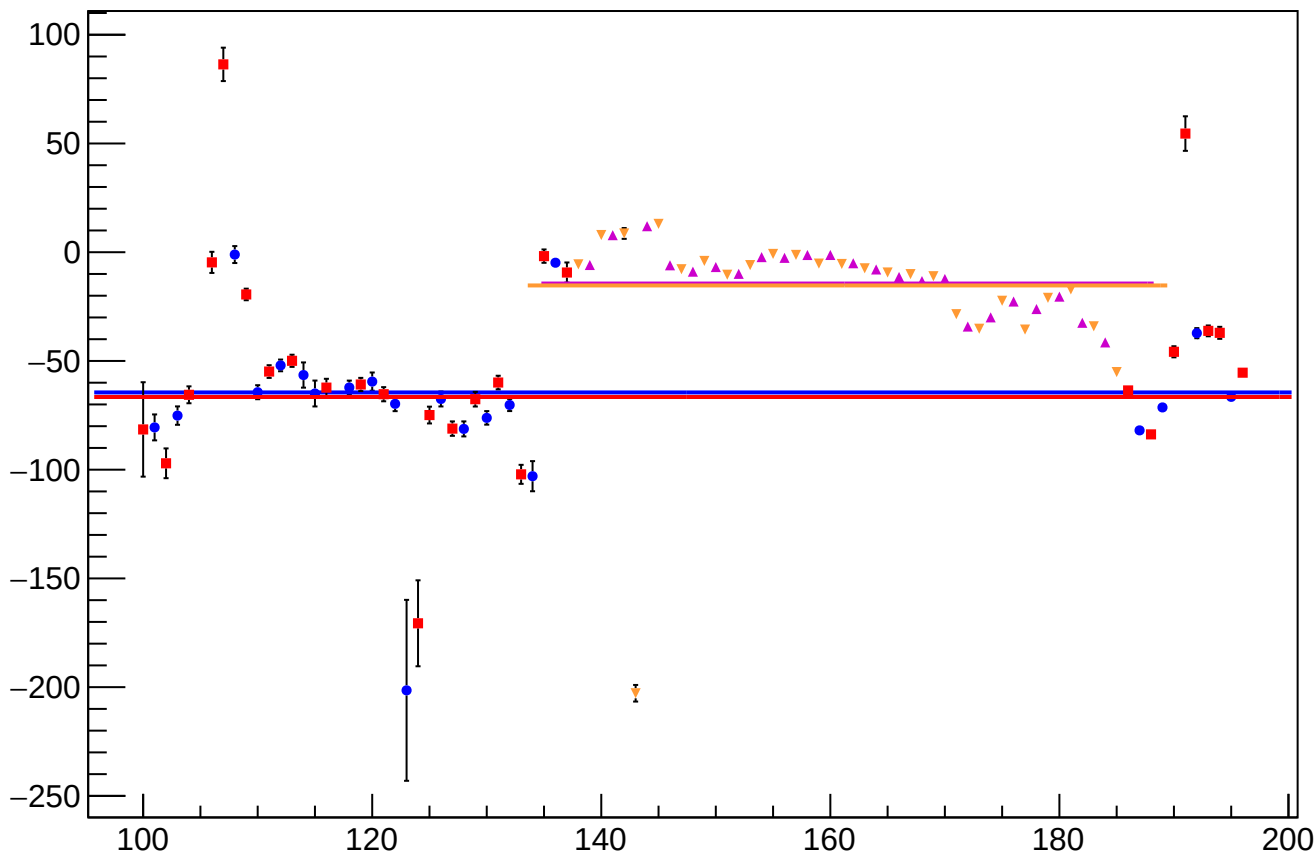
Right: 1.652 $\pm$ 0.290 χ^2 /NDF: 801.5/46

In: 2.097 $\pm$ 0.193 χ^2 /NDF:695.2/43

Out: 1.431 $\pm$ 0.185 χ^2 /NDF:637.7/50

All: 1.750 $\pm$ 0.134 χ^2 /NDF: 1339.1/94

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.477+/-0.564 χ^2/NDF : 1552.2/20

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.575+/-0.387 χ^2/NDF : 3037.9/25

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

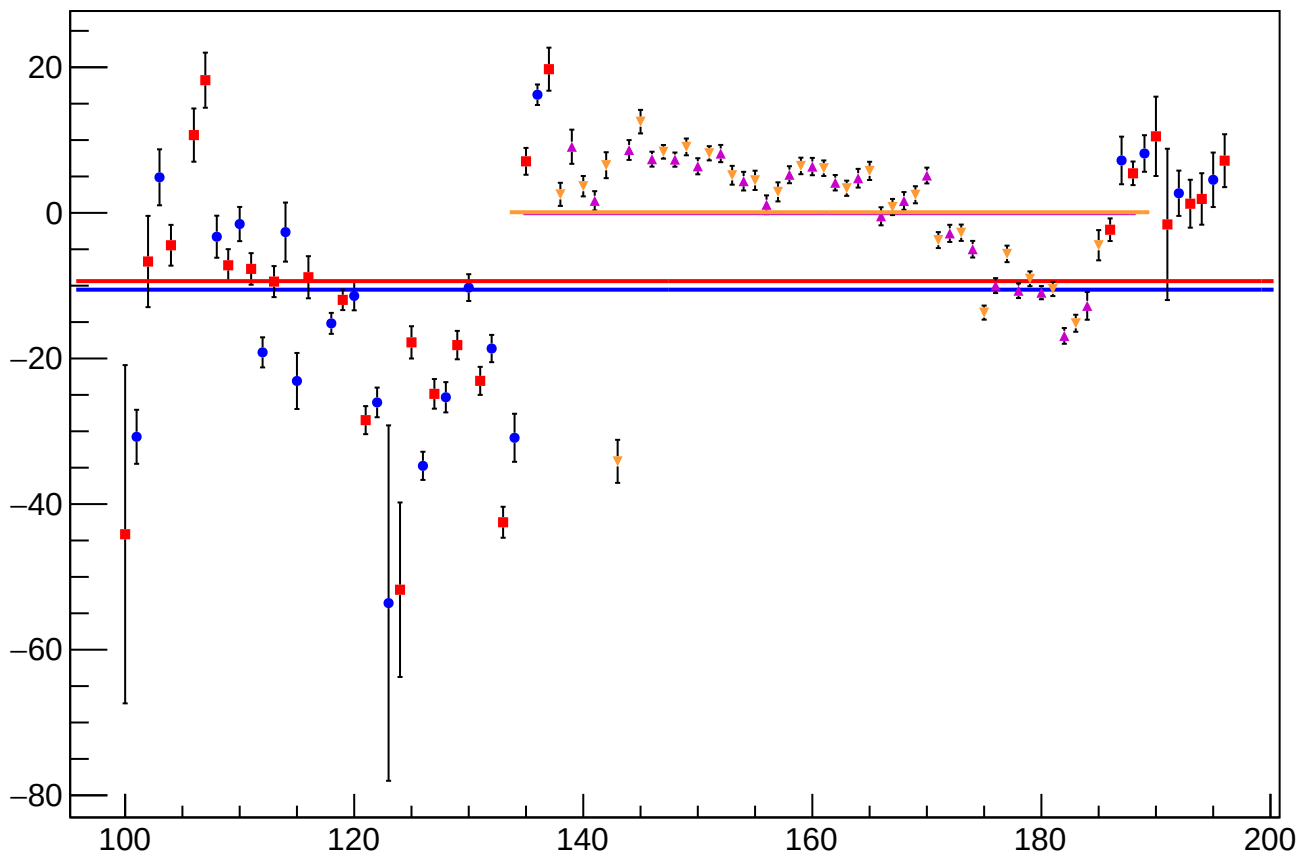
Right: -65.904+/-0.319 χ^2/NDF : 4599.6/46

In: -23.683+/-0.243 χ^2/NDF : 9998.6/43

Out: -31.815+/-0.220 χ^2/NDF : 19774.6/50

All: -28.157+/-0.163 χ^2/NDF : 30389.9/94

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.549 ± 0.507 χ^2/NDF : 913.5/20

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -9.372 ± 0.470 χ^2/NDF : 926.1/25

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

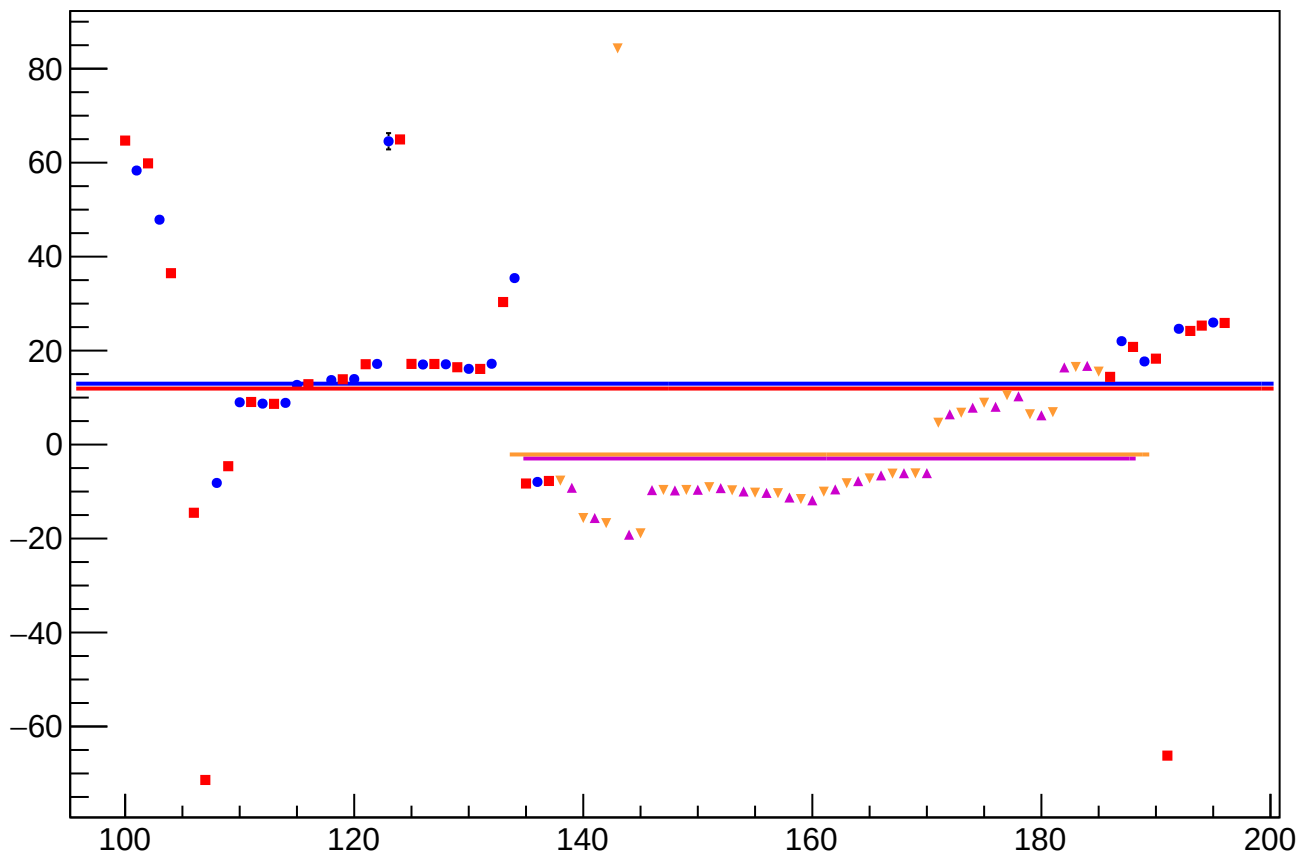
Right: -9.915 ± 0.345 χ^2/NDF : 1842.5/46

In: -2.005 ± 0.219 χ^2/NDF : 2290.5/43

Out: -1.849 ± 0.212 χ^2/NDF : 2421.1/50

All: -1.925 ± 0.153 χ^2/NDF : 4711.8/94

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 12.960 $\pm$ 0.027 χ^2 /NDF: 419242.5/20

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 11.921 $\pm$ 0.025 χ^2 /NDF: 696014.9/25

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

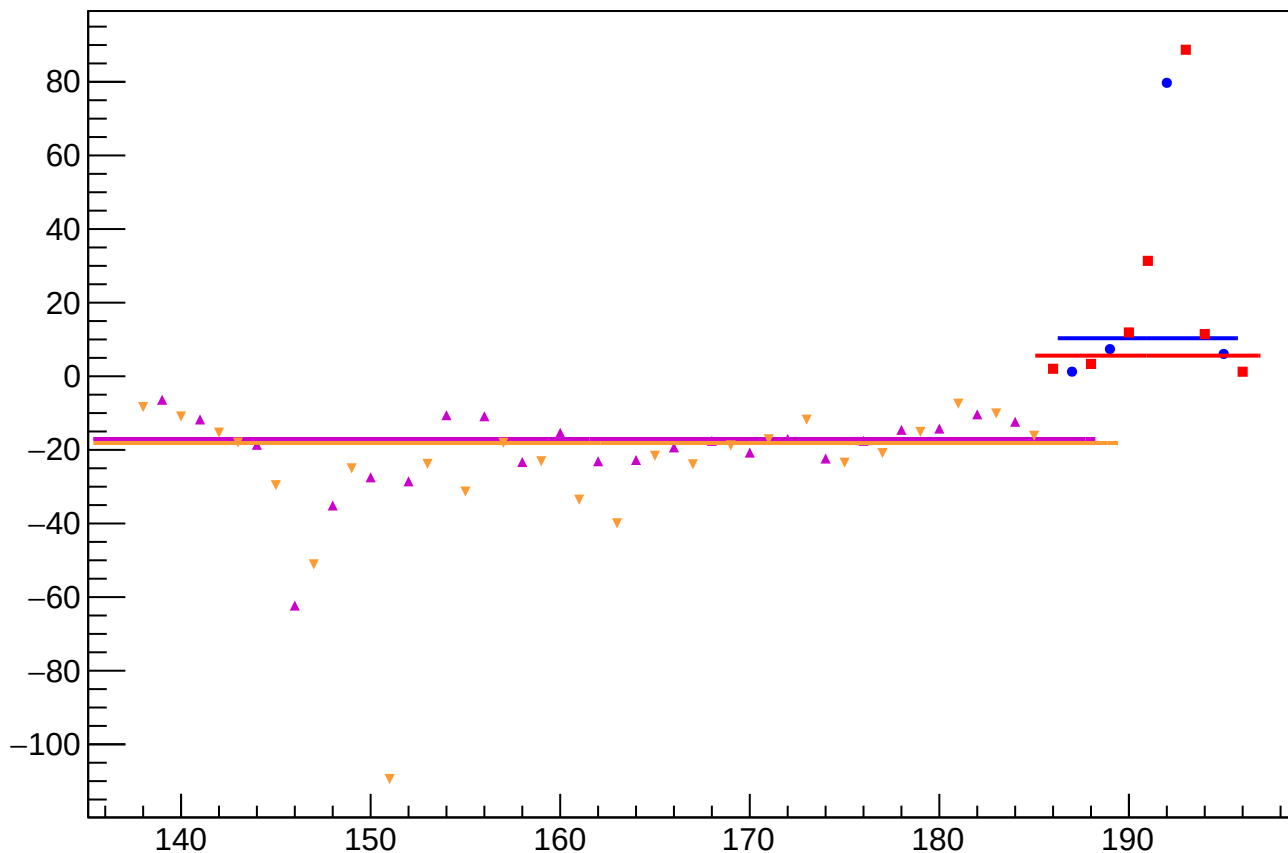
Right: 12.402 $\pm$ 0.019 χ^2 /NDF: 1116033.8/46

In: -0.740 $\pm$ 0.010 χ^2 /NDF: 1474164.2/43

Out: 0.088 $\pm$ 0.010 χ^2 /NDF: 2047001.1/50

All: -0.319 $\pm$ 0.007 χ^2 /NDF: 3524510.1/94

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



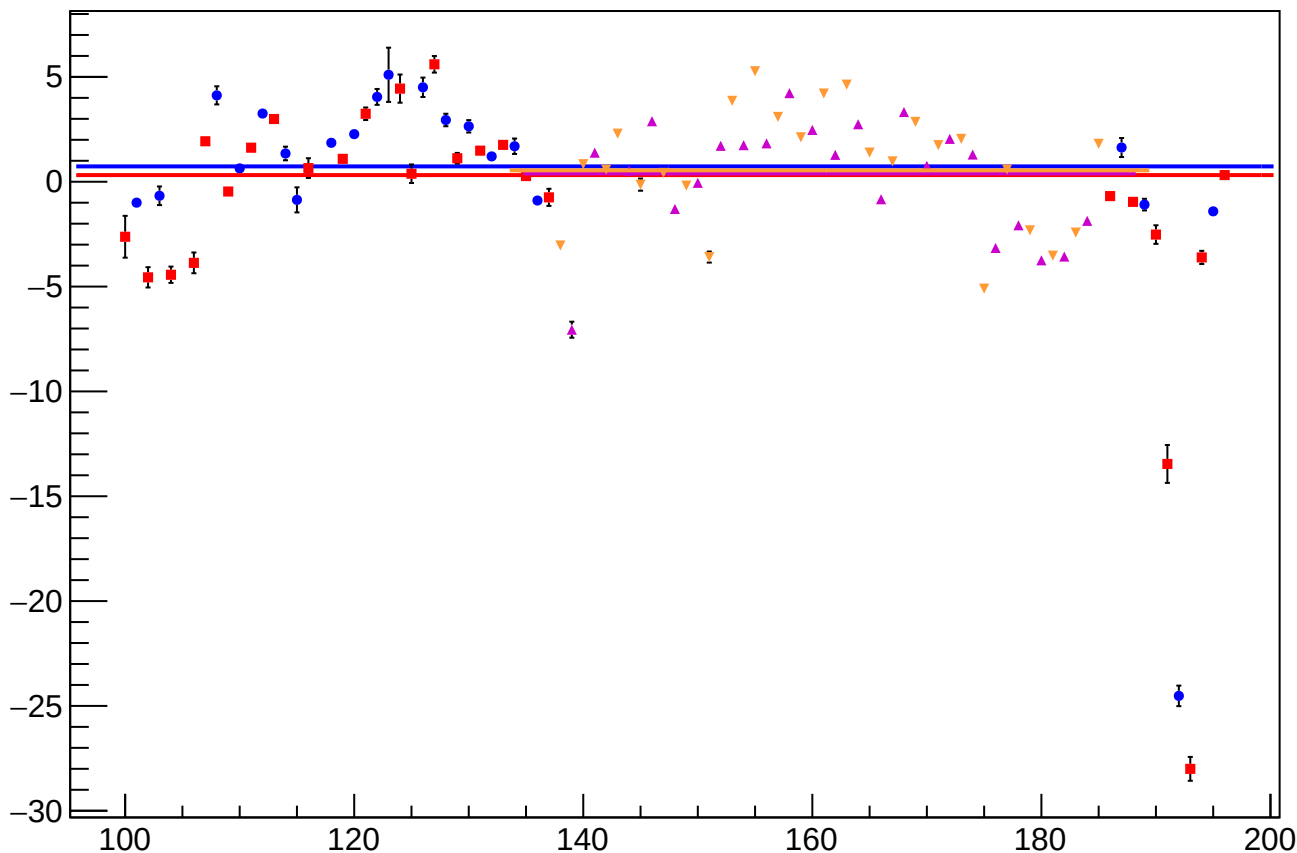
Right In: 10.334 $\pm$ 0.122 χ^2 /NDF: 22997.8/3
 Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24
 Right Out: 5.607 $\pm$ 0.079 χ^2 /NDF: 24826.9/6
 Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47
 Right: 6.995 $\pm$ 0.066 χ^2 /NDF: 48879.0/10

In: -14.613 $\pm$ 0.036 χ^2 /NDF: 112744.1/26
 Out: -13.480 $\pm$ 0.035 χ^2 /NDF: 186225.2/31

All: -14.022 $\pm$ 0.025 χ^2 /NDF: 299473.5/58

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.732 ± 0.057 $\chi^2/\text{NDF}: 3570.1/20$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.317 ± 0.050 $\chi^2/\text{NDF}: 4094.2/25$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

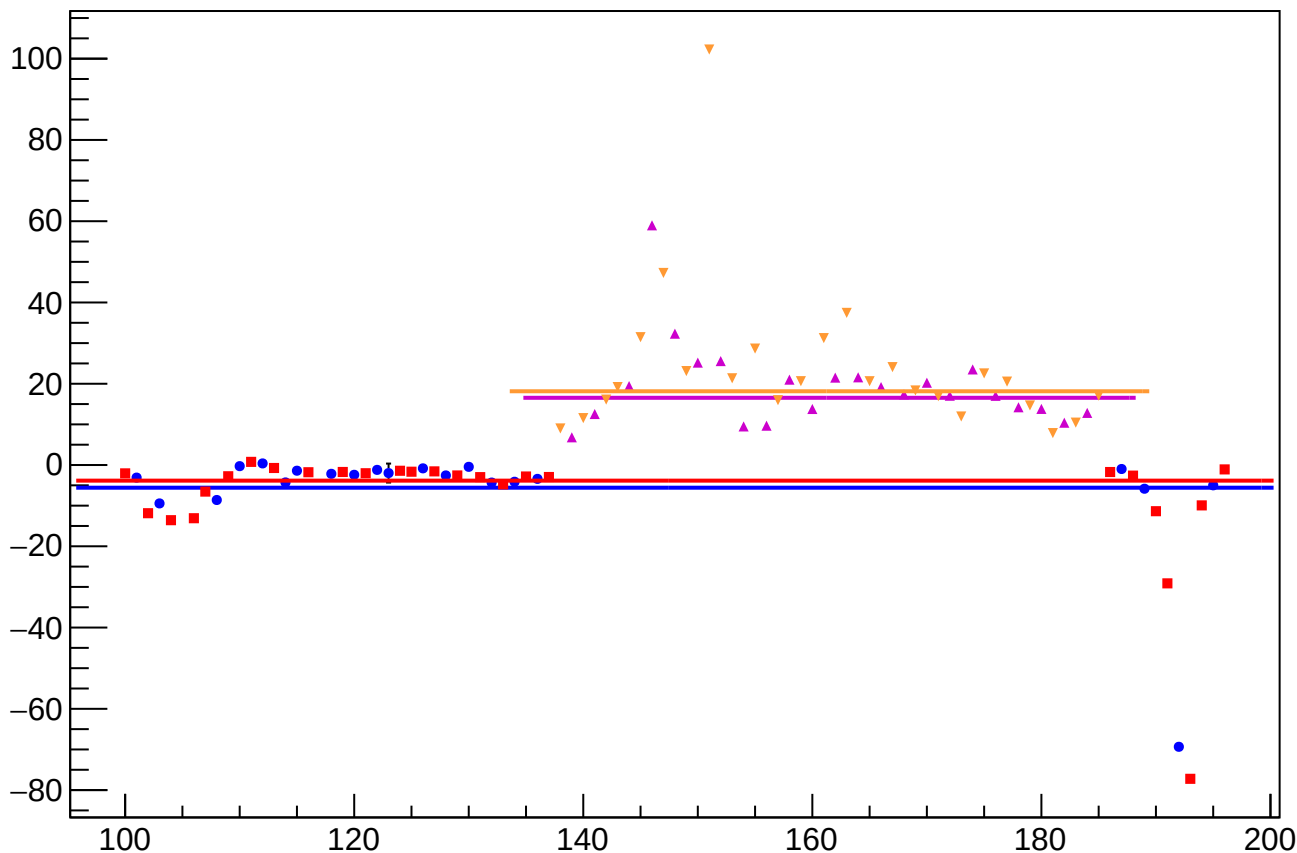
Right: 0.498 ± 0.038 $\chi^2/\text{NDF}: 7693.9/46$

In: 0.472 ± 0.027 $\chi^2/\text{NDF}: 9832.3/43$

Out: 0.477 ± 0.027 $\chi^2/\text{NDF}: 11193.8/50$

All: 0.474 ± 0.019 $\chi^2/\text{NDF}: 21026.1/94$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.583 ± 0.076 $\chi^2/\text{NDF}: 25395.9/20$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -3.844 ± 0.054 $\chi^2/\text{NDF}: 26306.8/25$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

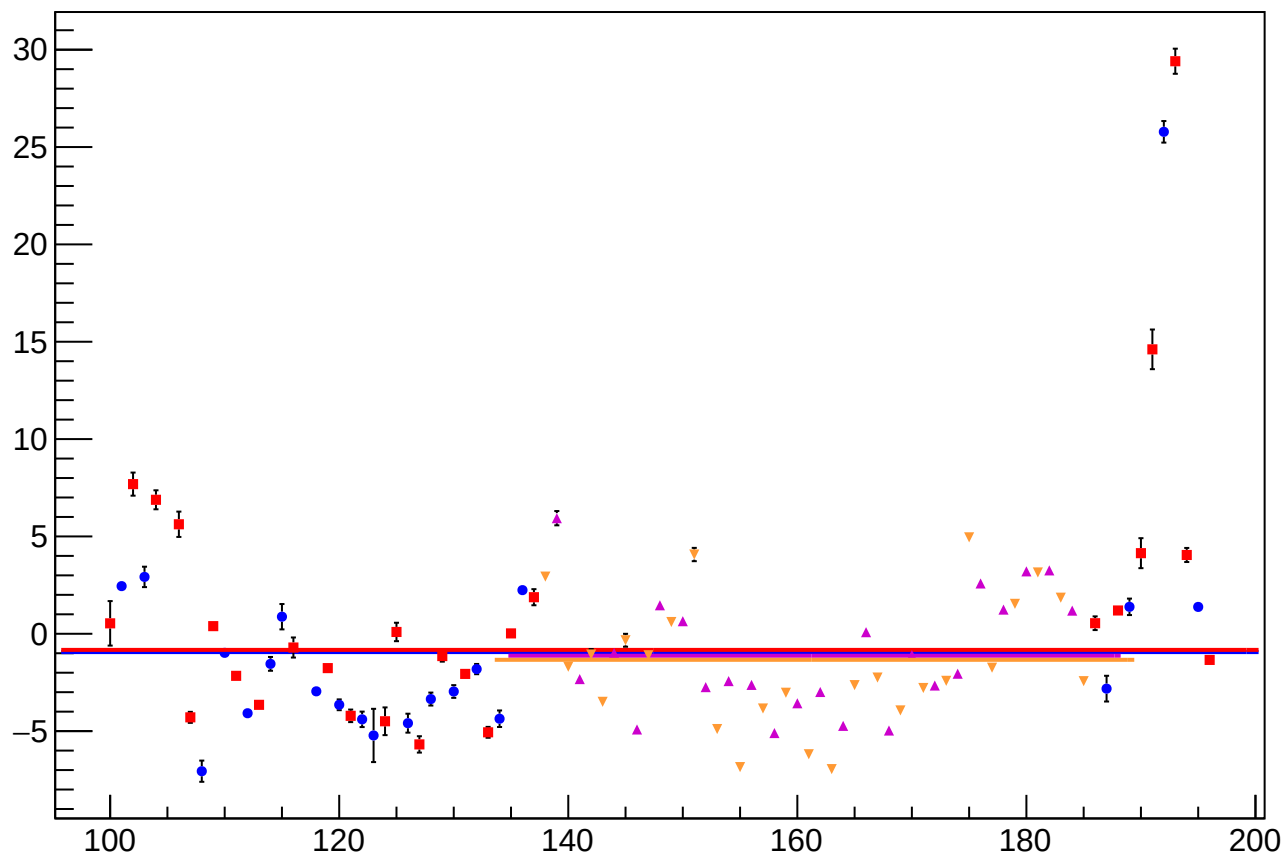
Right: -4.429 ± 0.044 $\chi^2/\text{NDF}: 52047.9/46$

In: 12.184 ± 0.034 $\chi^2/\text{NDF}: 133897.7/43$

Out: 10.637 ± 0.032 $\chi^2/\text{NDF}: 212265.6/50$

All: 11.361 ± 0.023 $\chi^2/\text{NDF}: 347275.0/94$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.941 ± 0.067 χ^2/NDF : 3817.2/20

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.828 ± 0.059 χ^2/NDF : 4368.2/25

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

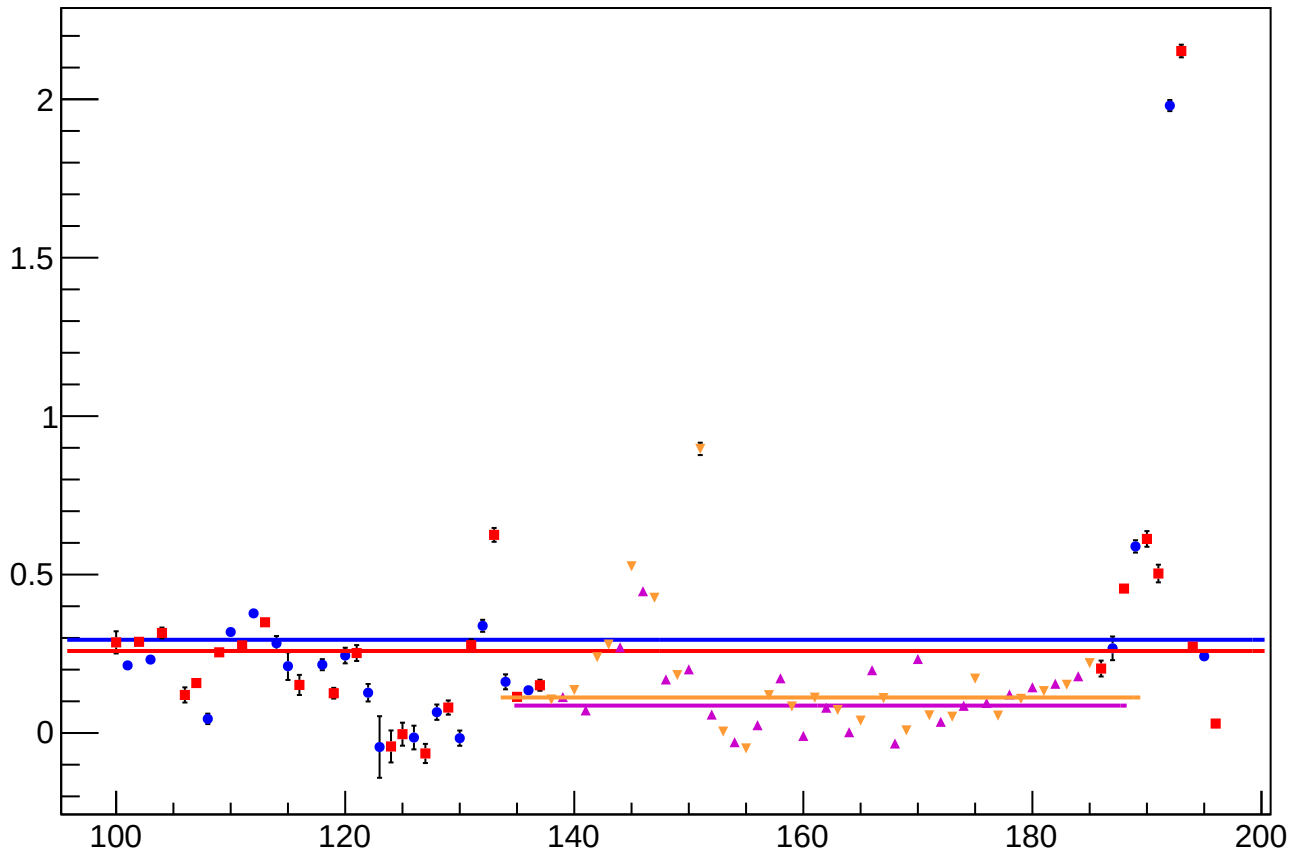
Right: -0.877 ± 0.044 χ^2/NDF : 8187.0/46

In: -1.090 ± 0.030 χ^2/NDF : 10563.8/43

Out: -1.200 ± 0.031 χ^2/NDF : 12365.7/50

All: -1.144 ± 0.022 χ^2/NDF : 22936.0/94

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.294 $\pm$ 0.003 χ^2 /NDF: 10681.1/20

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.259 $\pm$ 0.003 χ^2 /NDF: 11532.0/25

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

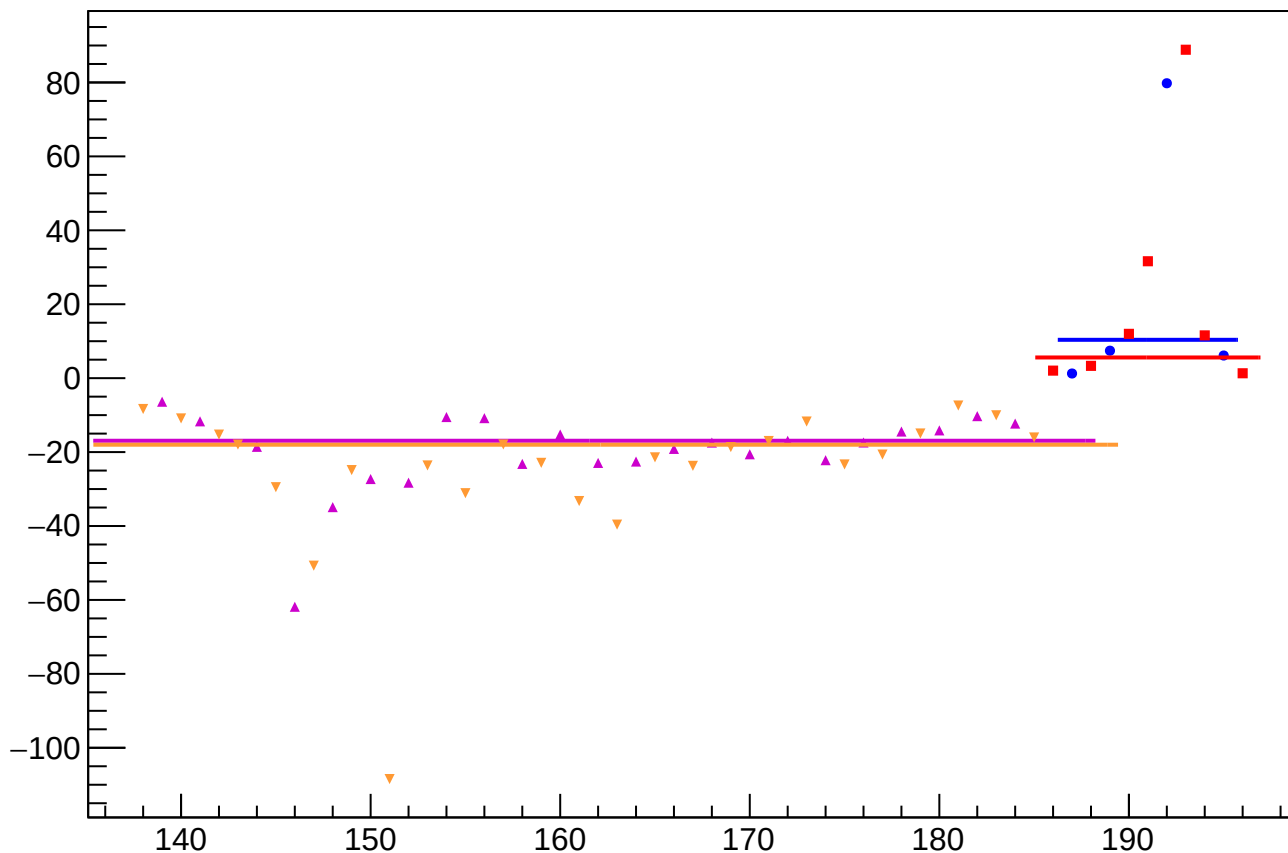
Right: 0.274 $\pm$ 0.002 χ^2 /NDF: 22273.5/46

In: 0.120 $\pm$ 0.001 χ^2 /NDF:17394.2/43

Out: 0.145 $\pm$ 0.001 χ^2 /NDF:17914.2/50

All: 0.132 $\pm$ 0.001 χ^2 /NDF: 35473.4/94

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.375 ± 0.122 $\chi^2/\text{NDF}: 23175.2/3$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 5.598 ± 0.078 $\chi^2/\text{NDF}: 25157.7/6$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

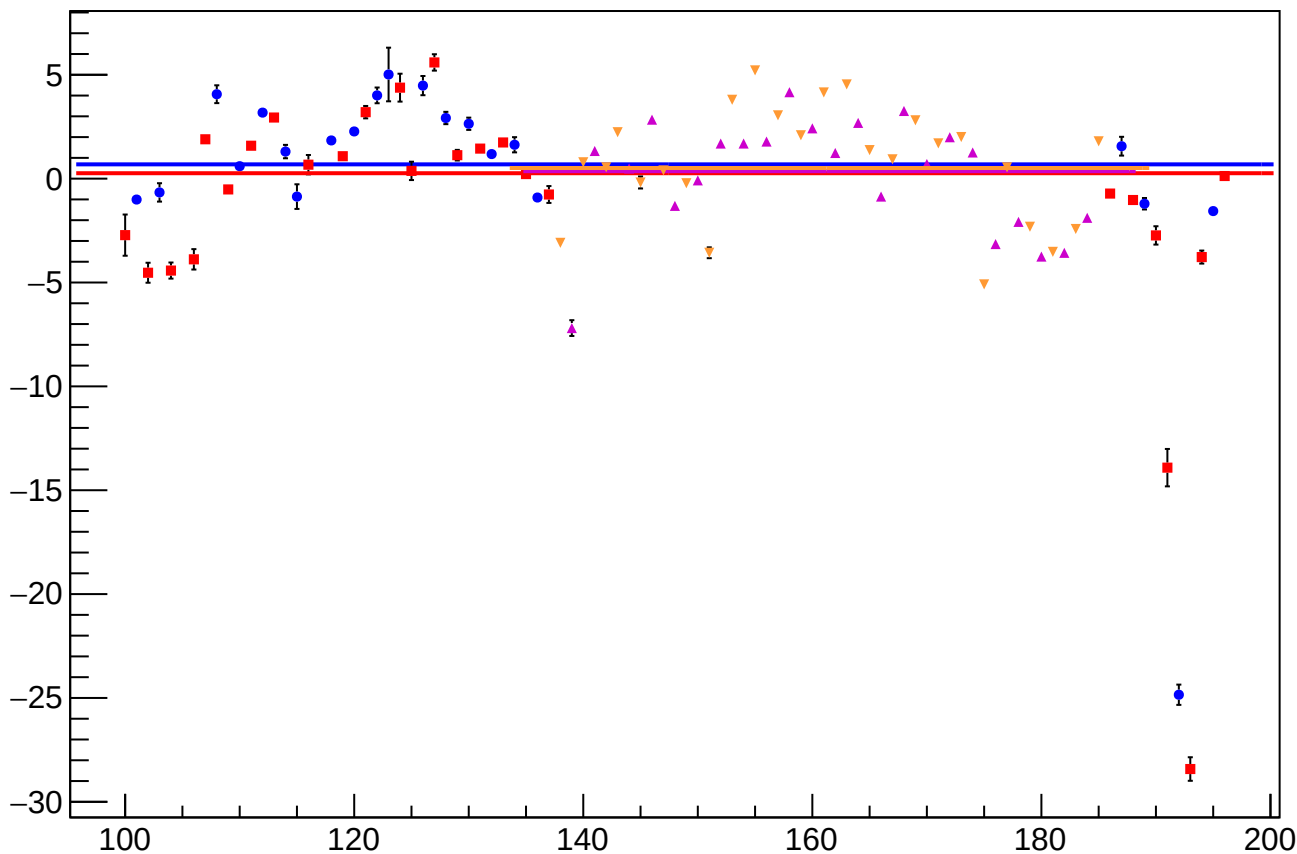
Right: 6.989 ± 0.066 $\chi^2/\text{NDF}: 49422.0/10$

In: -14.525 ± 0.036 $\chi^2/\text{NDF}: 113021.3/26$

Out: -13.365 ± 0.035 $\chi^2/\text{NDF}: 186888.6/31$

All: -13.920 ± 0.025 $\chi^2/\text{NDF}: 300446.2/58$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.688 ± 0.057 $\chi^2/\text{NDF}: 3670.0/20$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.261 ± 0.050 $\chi^2/\text{NDF}: 4231.7/25$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

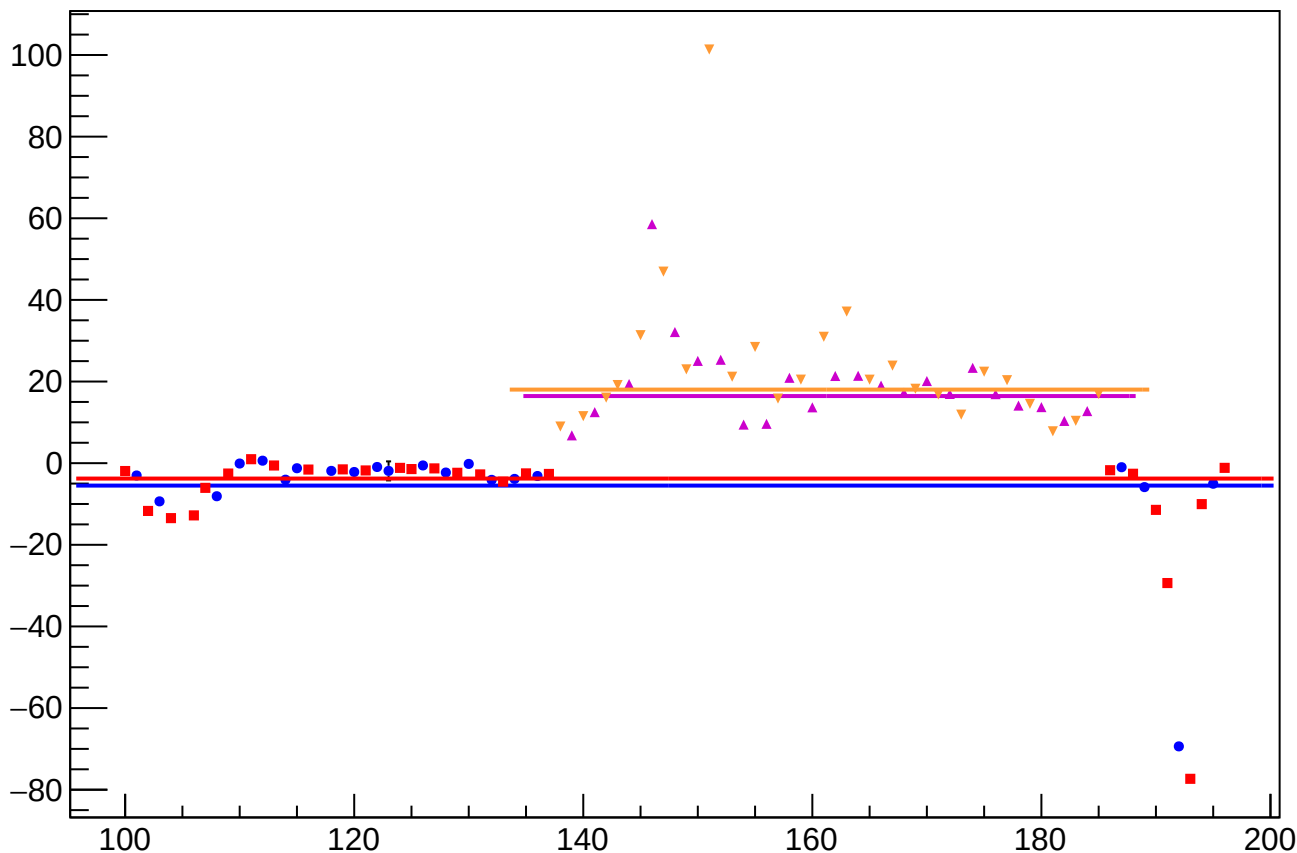
Right: 0.447 ± 0.038 $\chi^2/\text{NDF}: 7933.4/46$

In: 0.433 ± 0.027 $\chi^2/\text{NDF}: 9917.0/43$

Out: 0.438 ± 0.027 $\chi^2/\text{NDF}: 11319.8/50$

All: 0.436 ± 0.019 $\chi^2/\text{NDF}: 21236.8/94$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.492 ± 0.076 $\chi^2/\text{NDF}: 25728.8/20$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -3.772 ± 0.054 $\chi^2/\text{NDF}: 26705.8/25$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

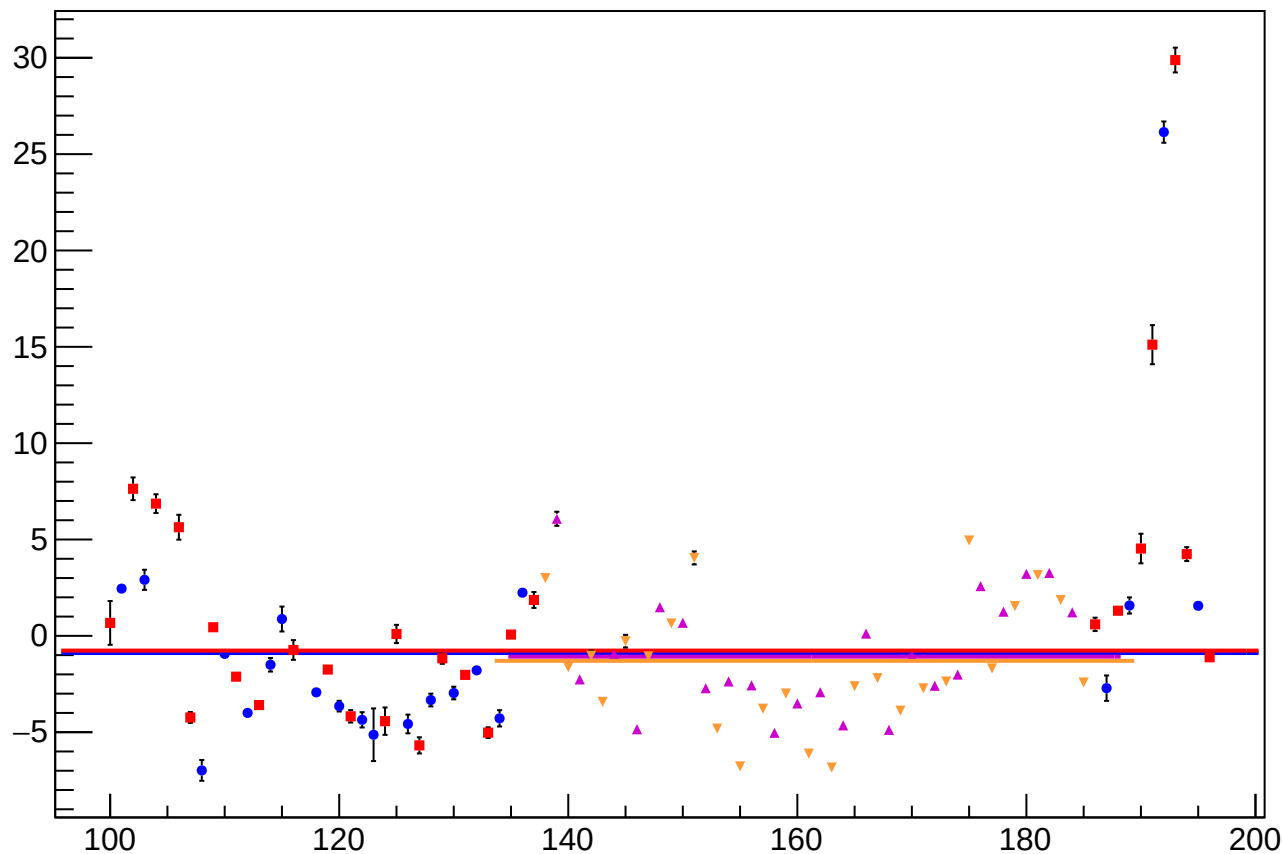
Right: -4.348 ± 0.044 $\chi^2/\text{NDF}: 52776.3/46$

In: 12.136 ± 0.034 $\chi^2/\text{NDF}: 133649.8/43$

Out: 10.568 ± 0.031 $\chi^2/\text{NDF}: 212317.3/50$

All: 11.301 ± 0.023 $\chi^2/\text{NDF}: 347126.1/94$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.892 ± 0.066 χ^2/NDF : 3906.4/20

Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24

Right Out: -0.765 ± 0.059 χ^2/NDF : 4499.6/25

Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47

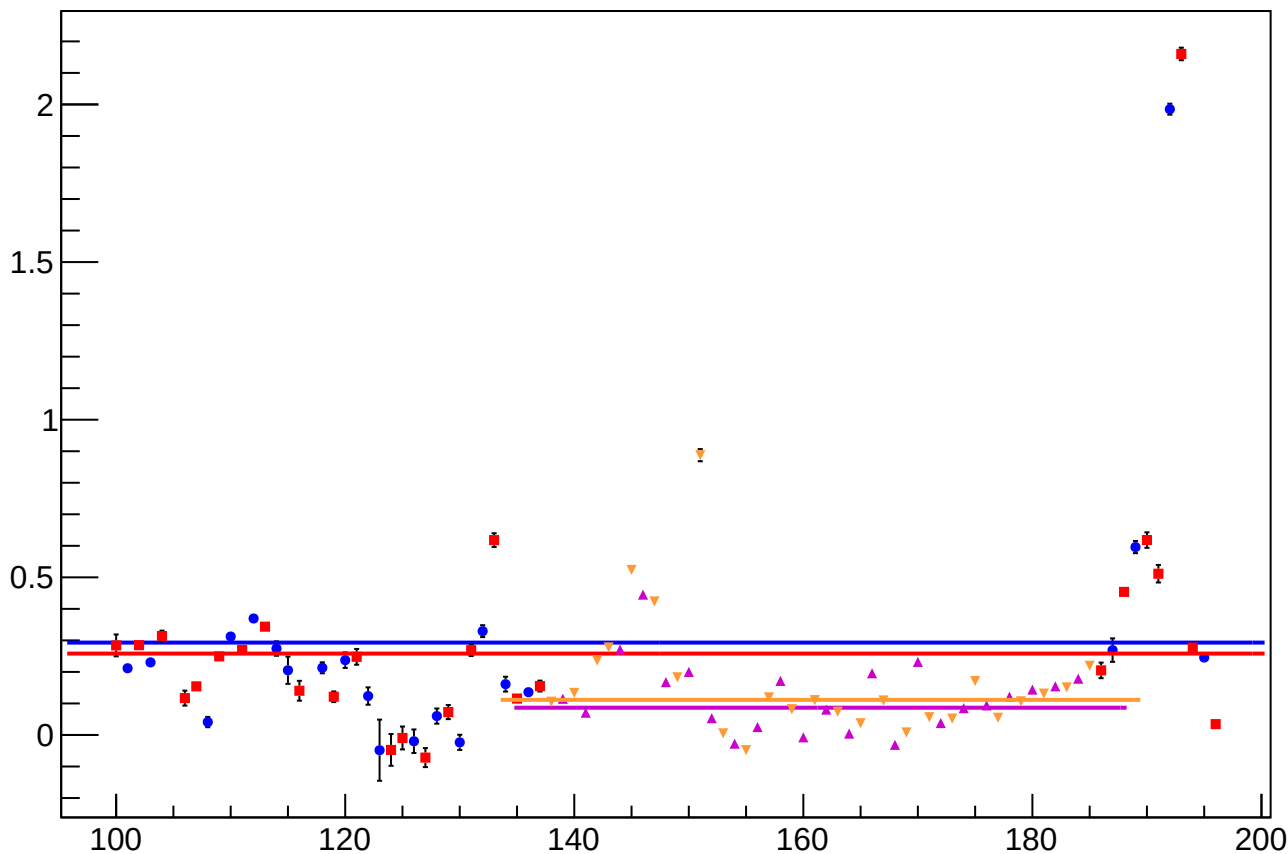
Right: -0.821 ± 0.044 χ^2/NDF : 8408.1/46

In: -1.042 ± 0.030 χ^2/NDF : 10637.0/43

Out: -1.154 ± 0.030 χ^2/NDF : 12484.7/50

All: -1.098 ± 0.021 χ^2/NDF : 23128.5/94

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.293+/-0.003 χ^2/NDF : 10834.2/20

Left Out: 0.111+/-0.002 χ^2/NDF : 4496.0/24

Right Out: 0.258+/-0.003 χ^2/NDF : 11678.6/25

Left In: 0.087+/-0.001 χ^2/NDF : 3625.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8251.9/47

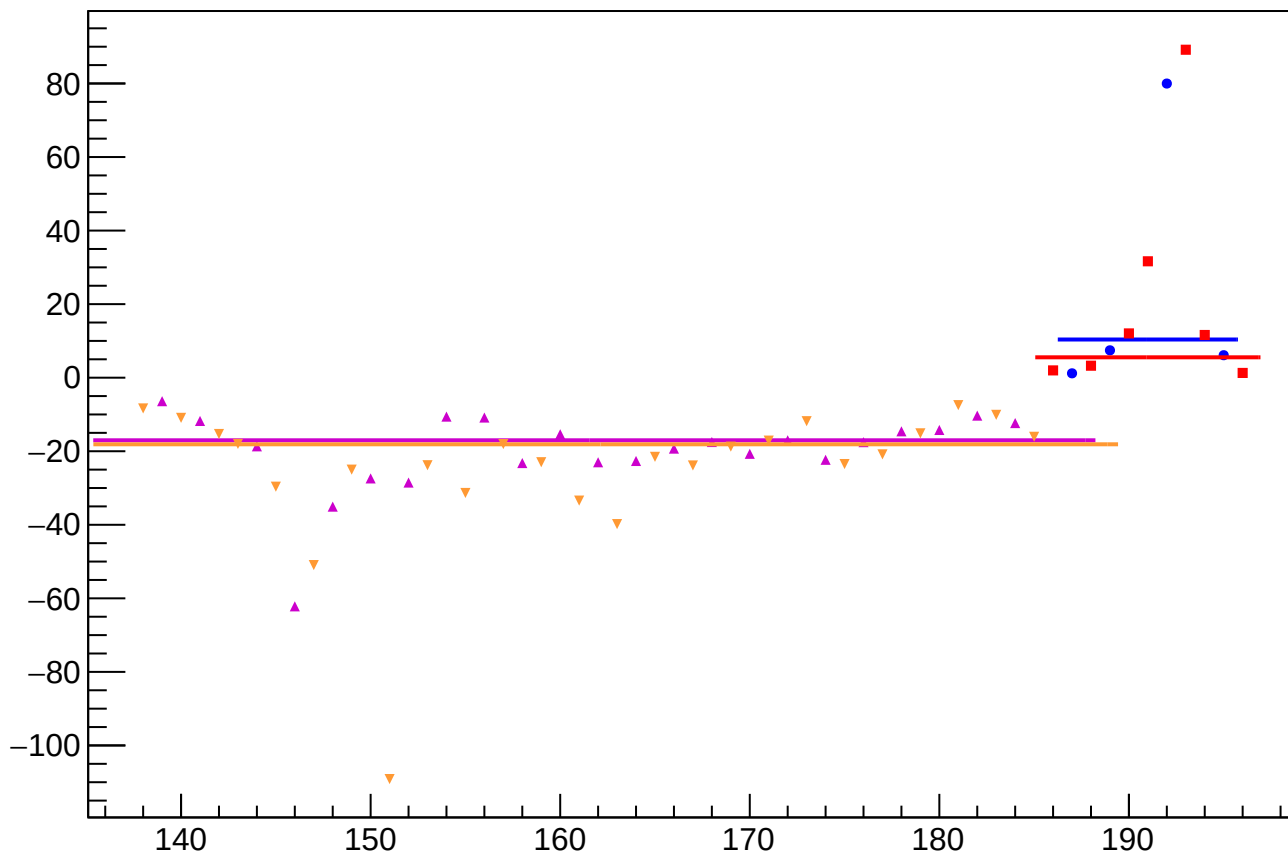
Right: 0.273+/-0.002 χ^2/NDF : 22572.0/46

In: 0.119+/-0.001 χ^2/NDF : 17512.5/43

Out: 0.144+/-0.001 χ^2/NDF : 18075.5/50

All: 0.132+/-0.001 χ^2/NDF : 35748.5/94

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.382 ± 0.122 $\chi^2/\text{NDF}: 23168.6/3$

Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$

Right Out: 5.539 ± 0.078 $\chi^2/\text{NDF}: 25168.3/6$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

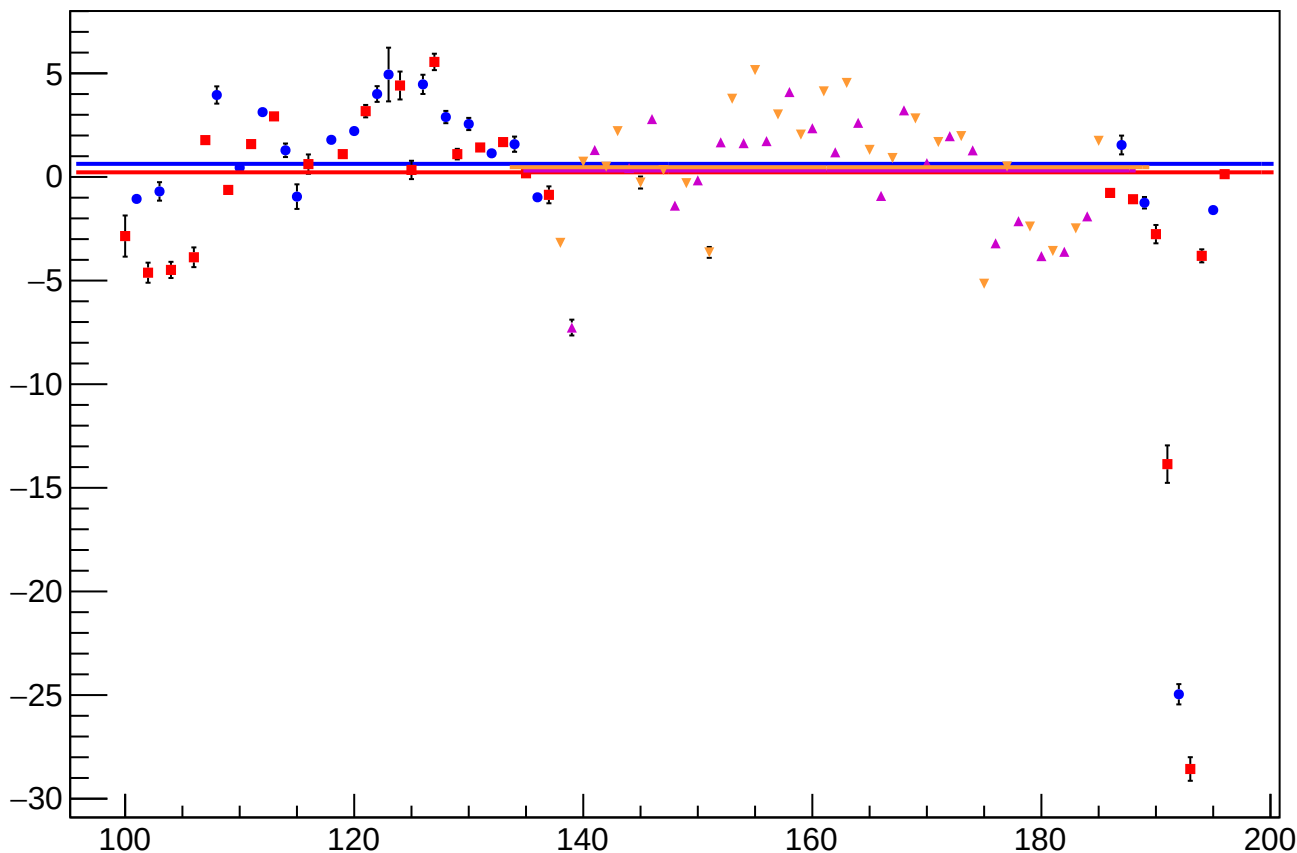
Right: 6.942 ± 0.066 $\chi^2/\text{NDF}: 49448.0/10$

In: -14.610 ± 0.036 $\chi^2/\text{NDF}: 113000.0/26$

Out: -13.436 ± 0.035 $\chi^2/\text{NDF}: 187146.4/31$

All: -13.997 ± 0.025 $\chi^2/\text{NDF}: 300691.6/58$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.632 ± 0.057 χ^2/NDF : 3664.3/20

Left Out: 0.469 ± 0.032 χ^2/NDF : 7093.0/24

Right Out: 0.223 ± 0.050 χ^2/NDF : 4230.1/25

Left In: 0.311 ± 0.031 χ^2/NDF : 6183.1/22

Left: 0.386 ± 0.022 χ^2/NDF : 13288.8/47

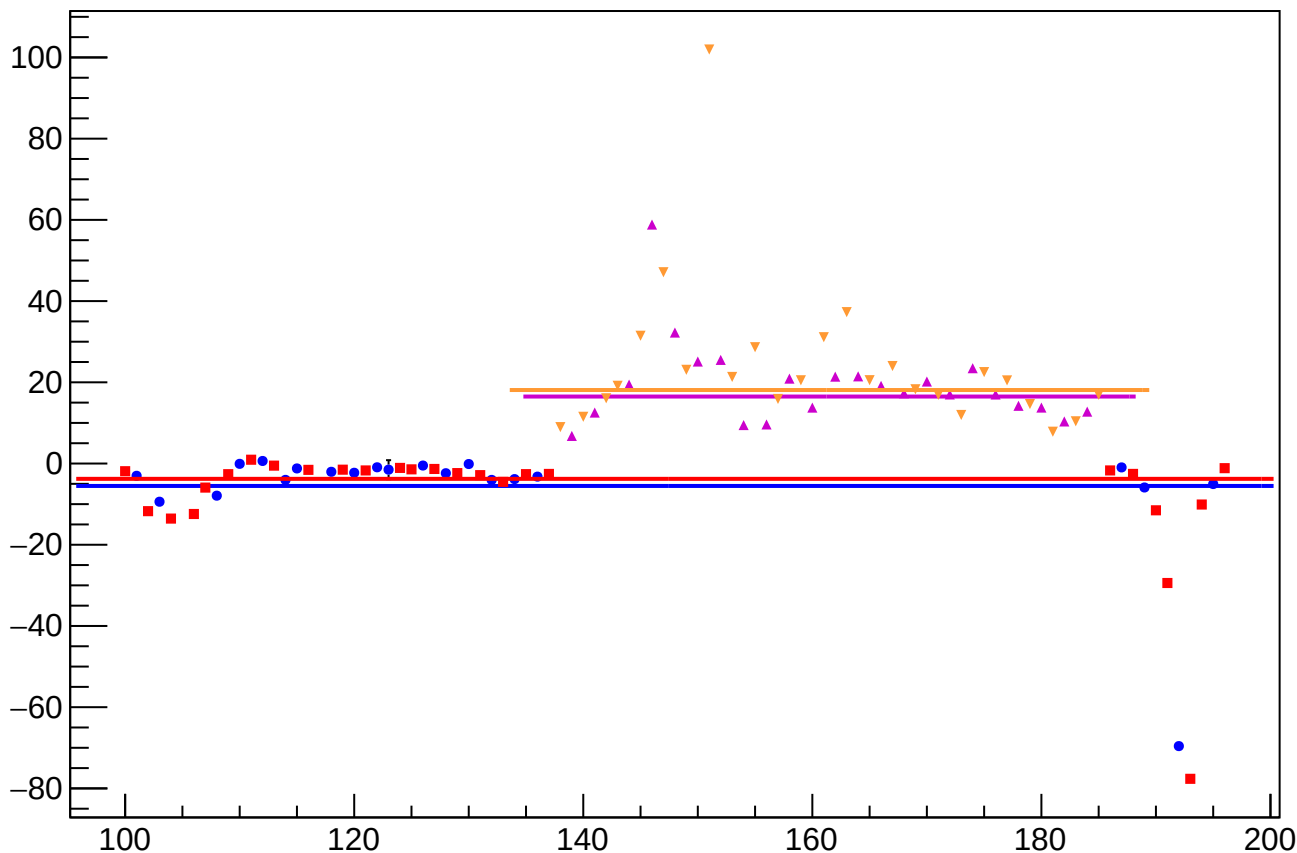
Right: 0.401 ± 0.038 χ^2/NDF : 7923.2/46

In: 0.382 ± 0.027 χ^2/NDF : 9871.9/43

Out: 0.397 ± 0.027 χ^2/NDF : 11340.1/50

All: 0.390 ± 0.019 χ^2/NDF : 21212.2/94

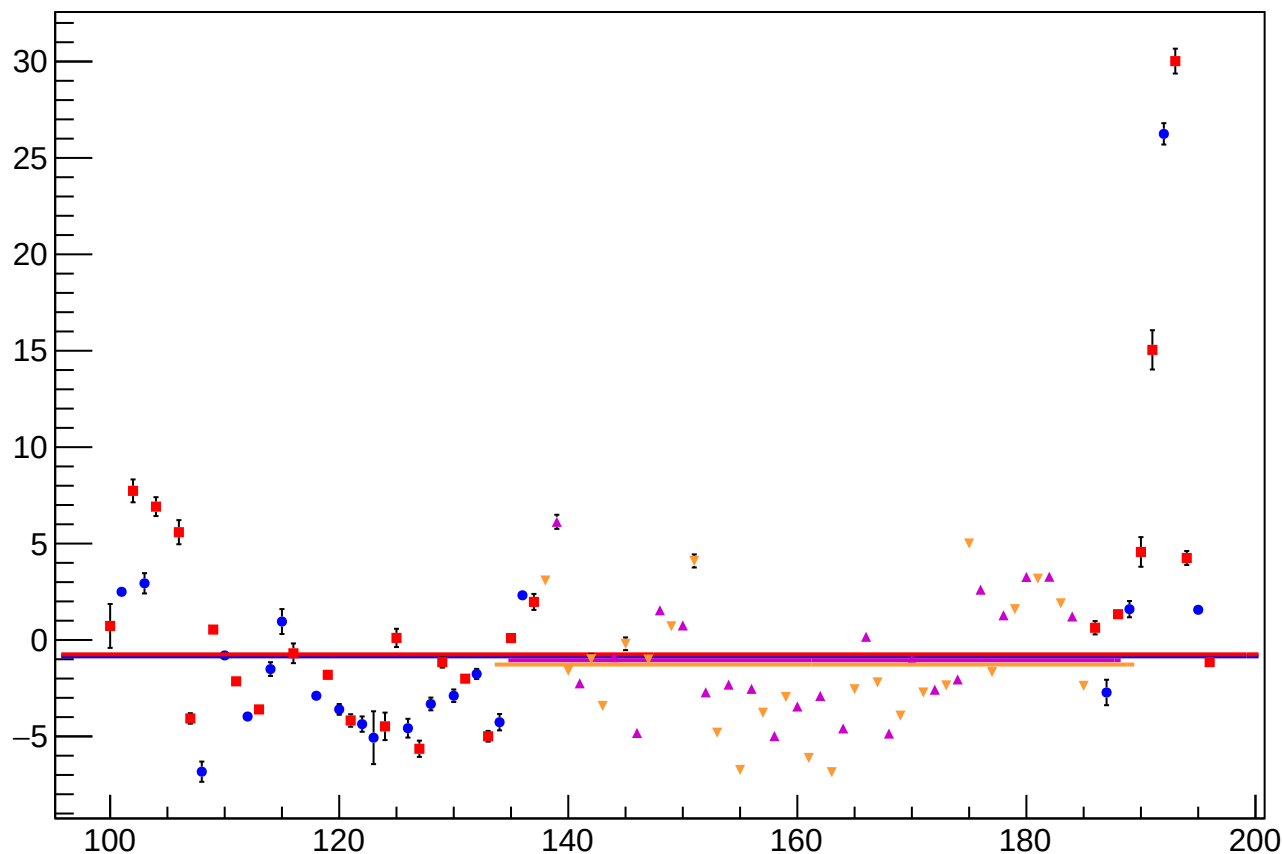
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.521 ± 0.076 $\chi^2/\text{NDF}: 25709.2/20$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -3.770 ± 0.054 $\chi^2/\text{NDF}: 26692.0/25$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.353 ± 0.044 $\chi^2/\text{NDF}: 52752.5/46$
 In: 12.181 ± 0.034 $\chi^2/\text{NDF}: 133580.7/43$
 Out: 10.592 ± 0.032 $\chi^2/\text{NDF}: 212564.4/50$
 All: 11.334 ± 0.023 $\chi^2/\text{NDF}: 347325.1/94$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.849 ± 0.067 $\chi^2/\text{NDF}: 3900.9/20$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.746 ± 0.059 $\chi^2/\text{NDF}: 4501.4/25$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

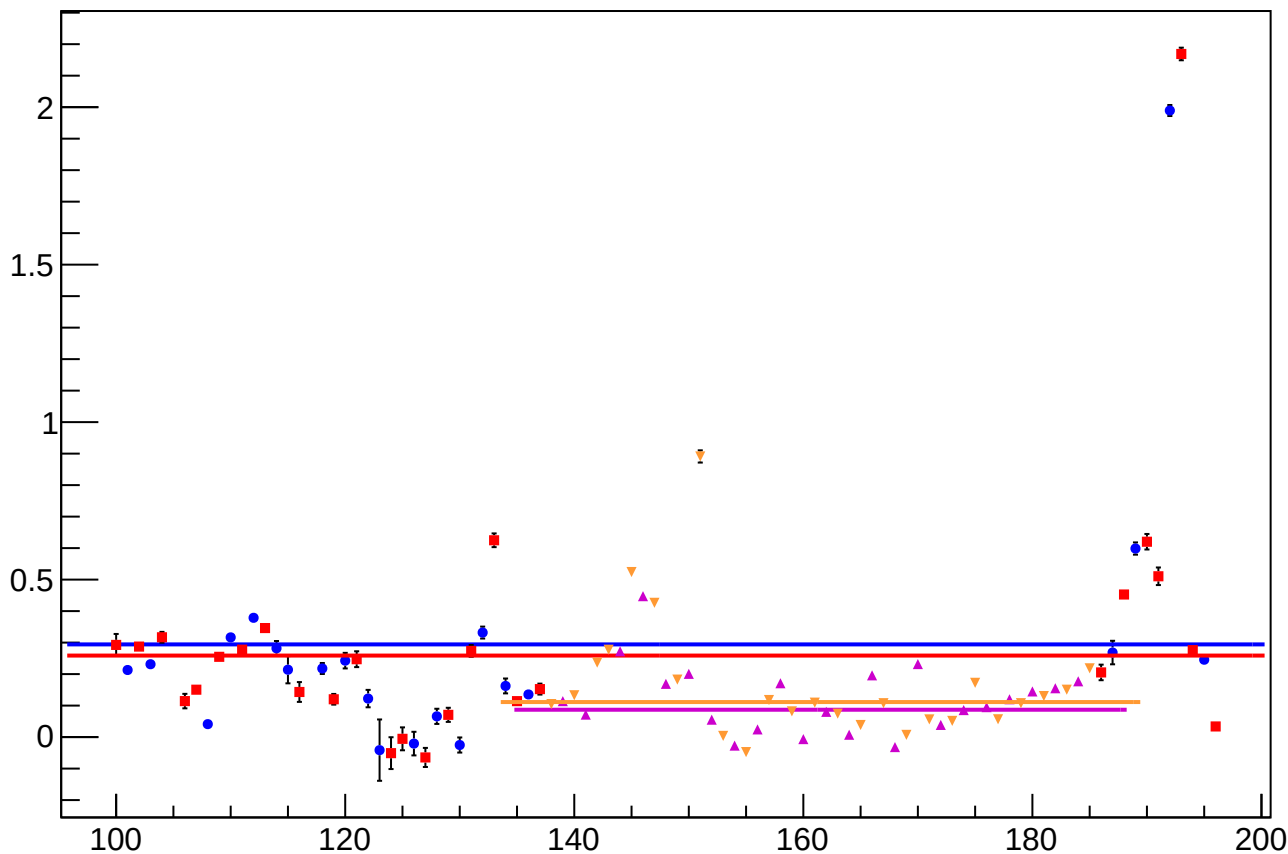
Right: -0.791 ± 0.044 $\chi^2/\text{NDF}: 8403.6/46$

In: -1.009 ± 0.030 $\chi^2/\text{NDF}: 10581.6/43$

Out: -1.131 ± 0.031 $\chi^2/\text{NDF}: 12511.5/50$

All: -1.069 ± 0.022 $\chi^2/\text{NDF}: 23101.1/94$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.294+/-0.003 χ^2/NDF : 10835.9/20

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.259+/-0.003 χ^2/NDF : 11694.9/25

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

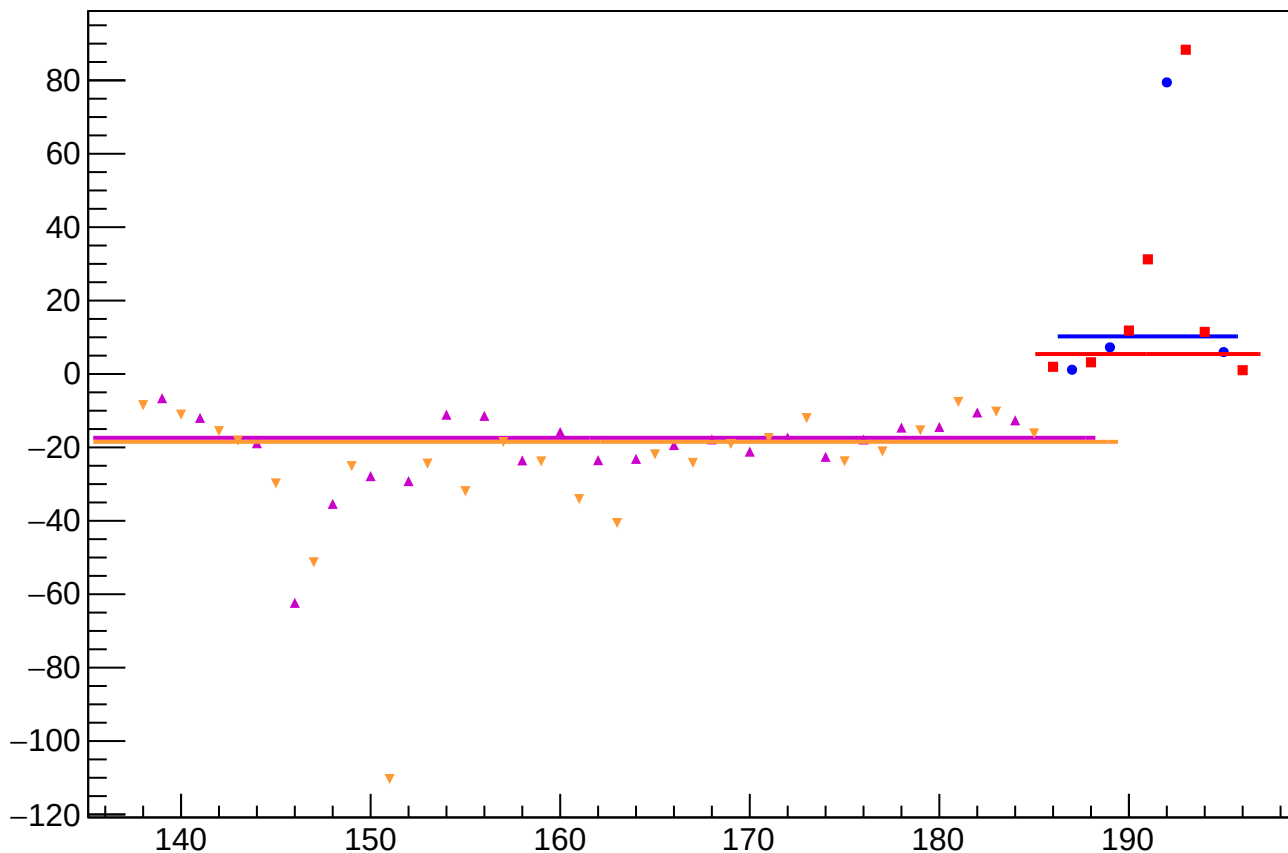
Right: 0.274+/-0.002 χ^2/NDF : 22591.6/46

In: 0.120+/-0.001 χ^2/NDF : 17490.3/43

Out: 0.144+/-0.001 χ^2/NDF : 18079.6/50

All: 0.132+/-0.001 χ^2/NDF : 35724.4/94

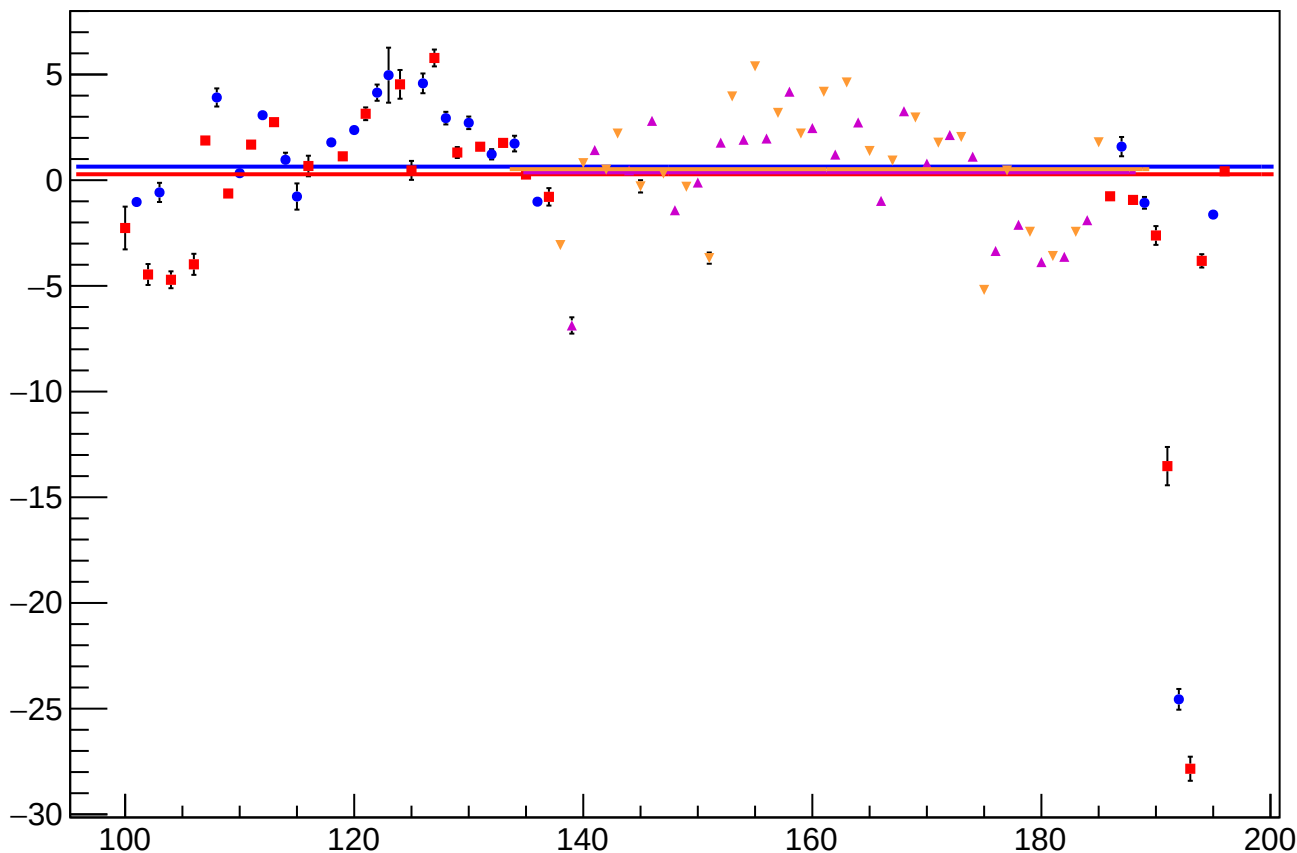
reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.246 ± 0.123 $\chi^2/\text{NDF}: 22789.7/3$
 Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$
 Right Out: 5.435 ± 0.079 $\chi^2/\text{NDF}: 24678.5/6$
 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: 6.830 ± 0.066 $\chi^2/\text{NDF}: 48556.9/10$
 In: -14.868 ± 0.037 $\chi^2/\text{NDF}: 111950.4/26$
 Out: -13.609 ± 0.035 $\chi^2/\text{NDF}: 186456.4/31$
 All: -14.209 ± 0.026 $\chi^2/\text{NDF}: 299008.2/58$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.641 ± 0.058 $\chi^2/\text{NDF}: 3563.0/20$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.280 ± 0.051 $\chi^2/\text{NDF}: 4052.4/25$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

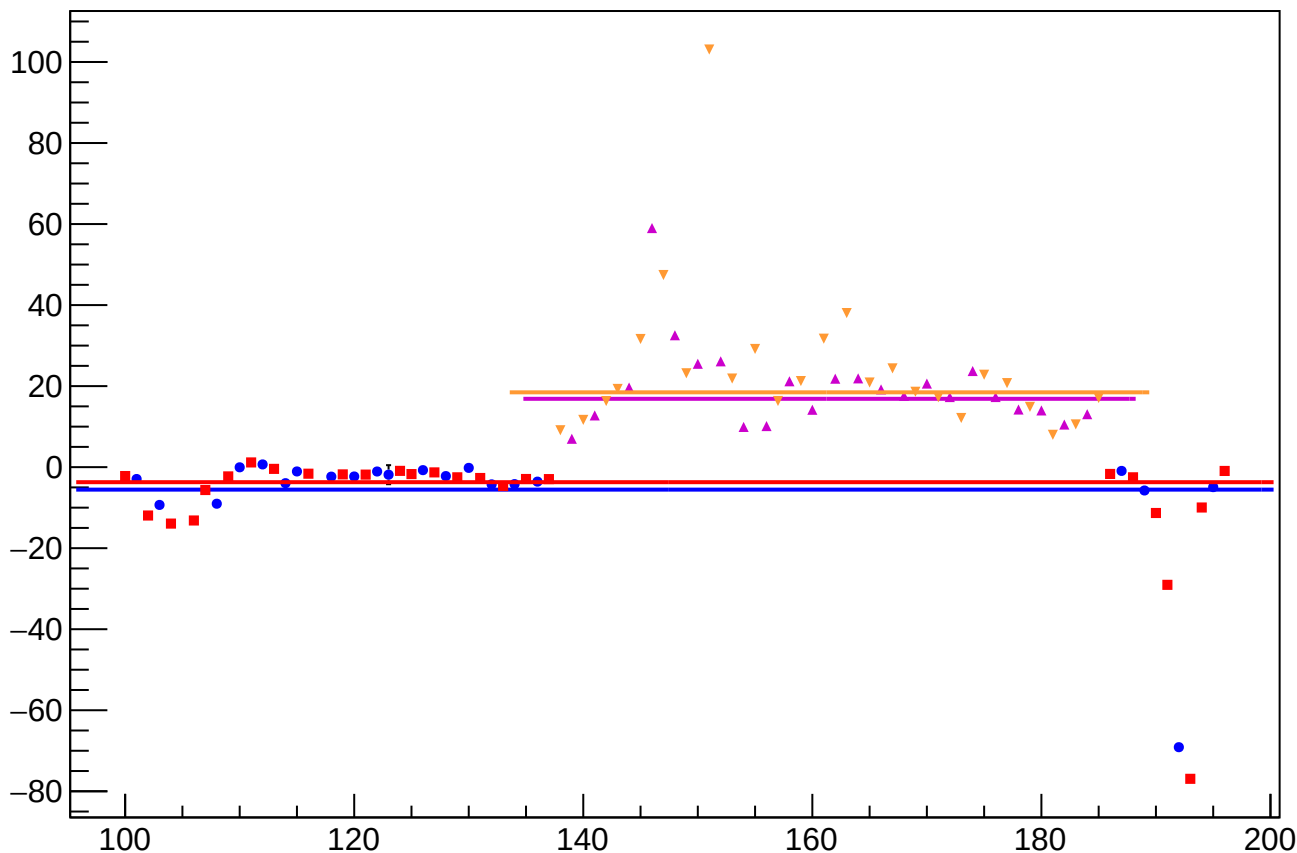
Right: 0.437 ± 0.038 $\chi^2/\text{NDF}: 7637.1/46$

In: 0.432 ± 0.028 $\chi^2/\text{NDF}: 9797.0/43$

Out: 0.450 ± 0.028 $\chi^2/\text{NDF}: 11123.2/50$

All: 0.441 ± 0.020 $\chi^2/\text{NDF}: 20920.5/94$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.547 ± 0.077 $\chi^2/\text{NDF}: 25203.3/20$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -3.710 ± 0.054 $\chi^2/\text{NDF}: 26197.7/25$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

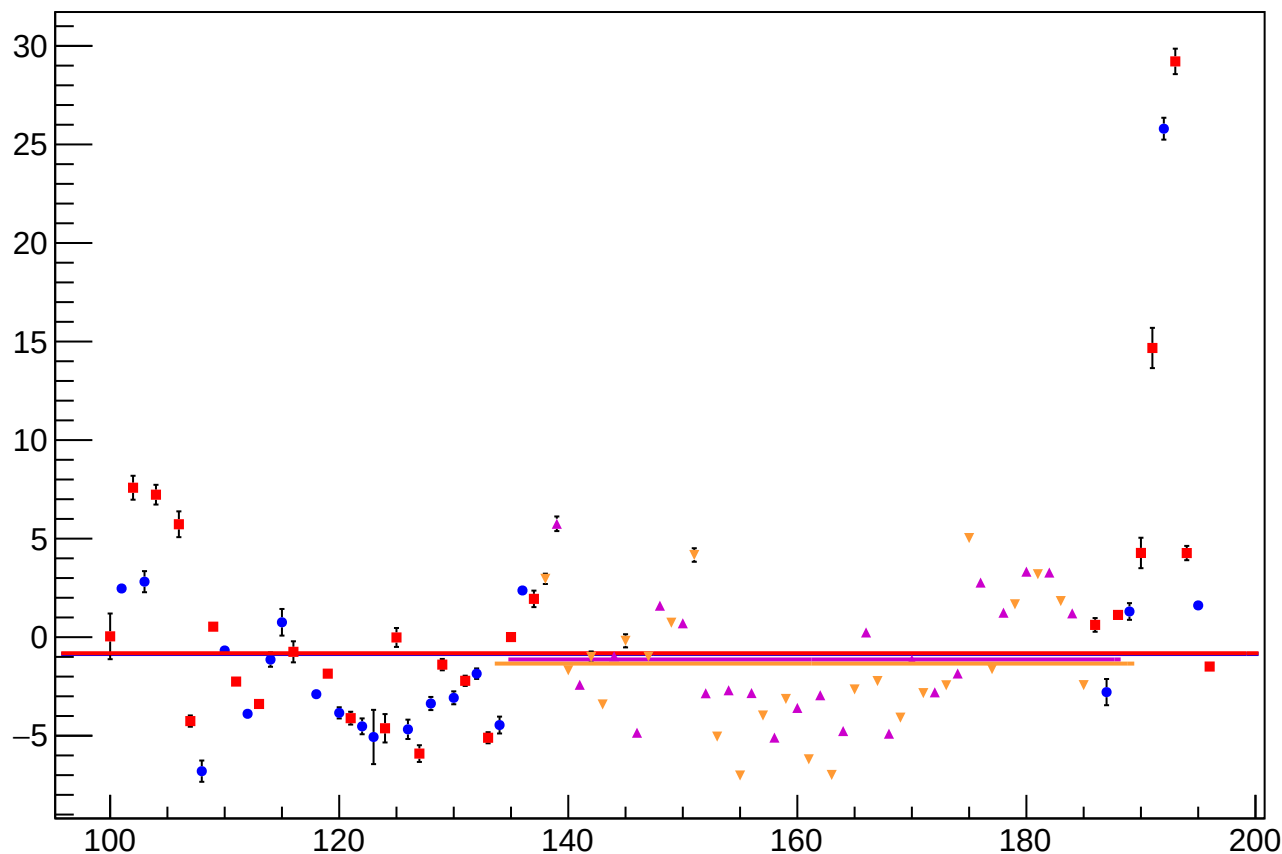
Right: -4.322 ± 0.044 $\chi^2/\text{NDF}: 51780.4/46$

In: 12.375 ± 0.034 $\chi^2/\text{NDF}: 132673.1/43$

Out: 10.717 ± 0.032 $\chi^2/\text{NDF}: 211466.2/50$

All: 11.489 ± 0.024 $\chi^2/\text{NDF}: 345375.1/94$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.855 ± 0.068 χ^2/NDF : 3798.2/20

Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24

Right Out: -0.815 ± 0.060 χ^2/NDF : 4326.2/25

Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47

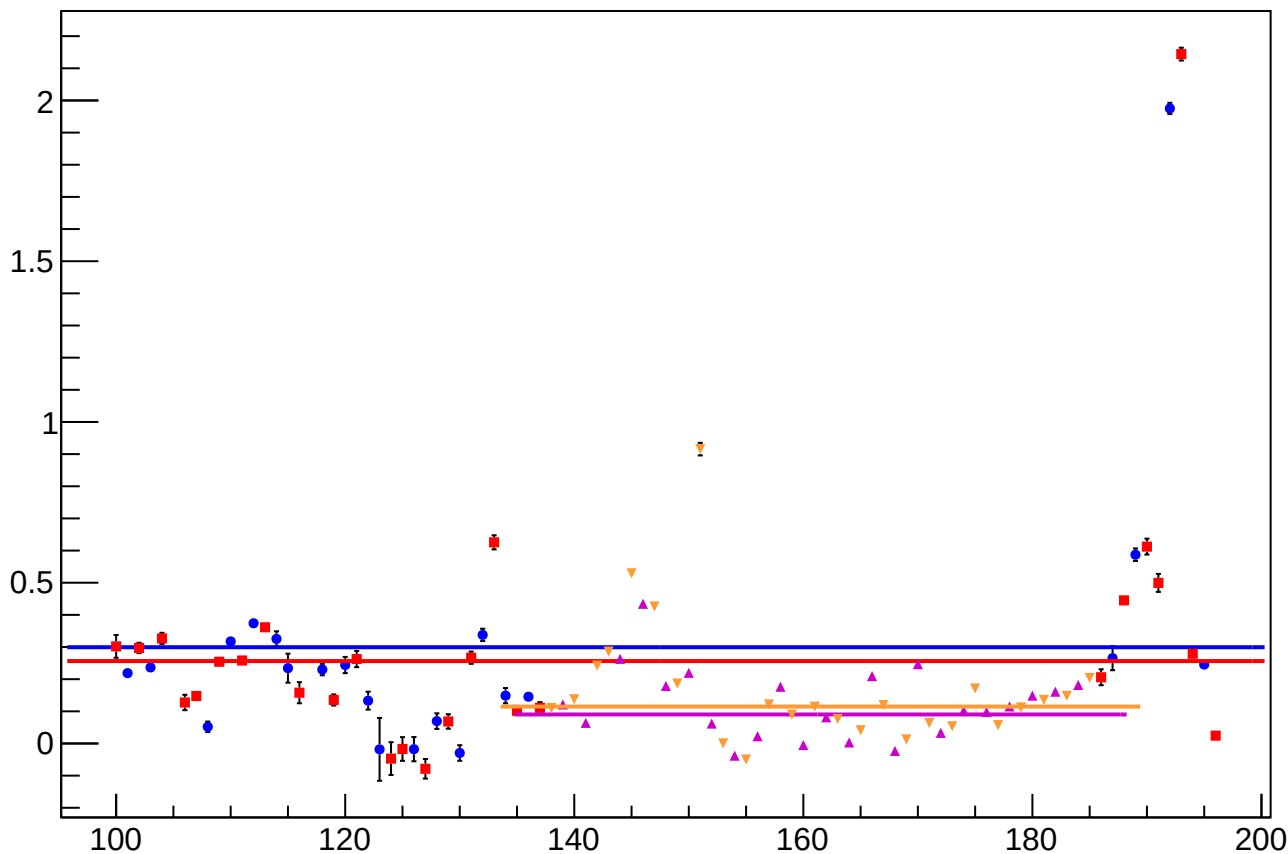
Right: -0.833 ± 0.045 χ^2/NDF : 8124.6/46

In: -1.074 ± 0.031 χ^2/NDF : 10520.0/43

Out: -1.198 ± 0.031 χ^2/NDF : 12289.5/50

All: -1.135 ± 0.022 χ^2/NDF : 22817.3/94

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.299 ± 0.003 $\chi^2/\text{NDF}: 10503.3/20$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.256 ± 0.003 $\chi^2/\text{NDF}: 11532.7/25$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

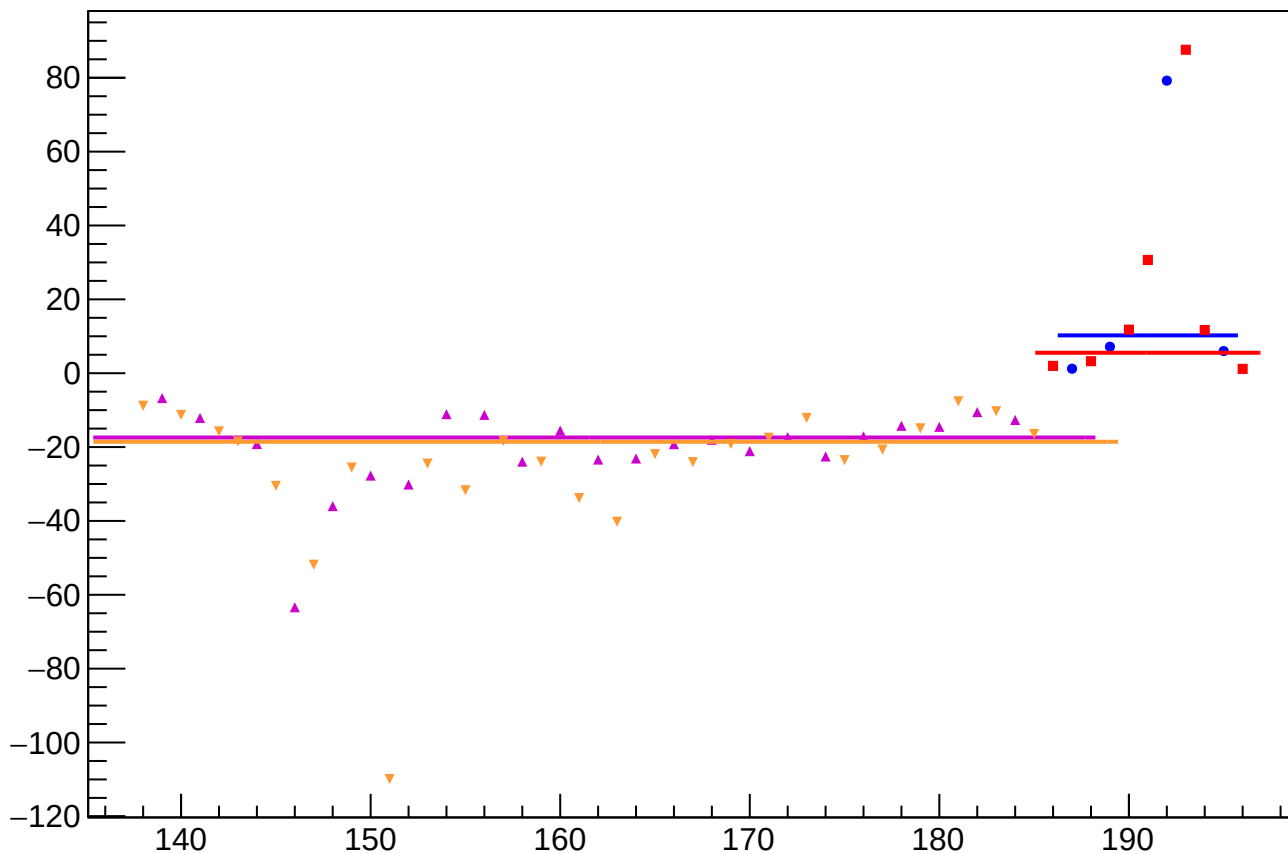
Right: 0.275 ± 0.002 $\chi^2/\text{NDF}: 22123.1/46$

In: 0.124 ± 0.001 $\chi^2/\text{NDF}: 17194.1/43$

Out: 0.147 ± 0.001 $\chi^2/\text{NDF}: 17663.1/50$

All: 0.135 ± 0.001 $\chi^2/\text{NDF}: 34984.0/94$

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.244+/-0.124 χ^2/NDF : 22417.8/3
 Left Out: -18.566+/-0.040 χ^2/NDF : 86389.6/24
 Right Out: 5.541+/-0.080 χ^2/NDF : 24072.2/6
 Left In: -17.414+/-0.039 χ^2/NDF : 43504.1/22

Left: -17.979+/-0.028 χ^2/NDF : 130314.7/47

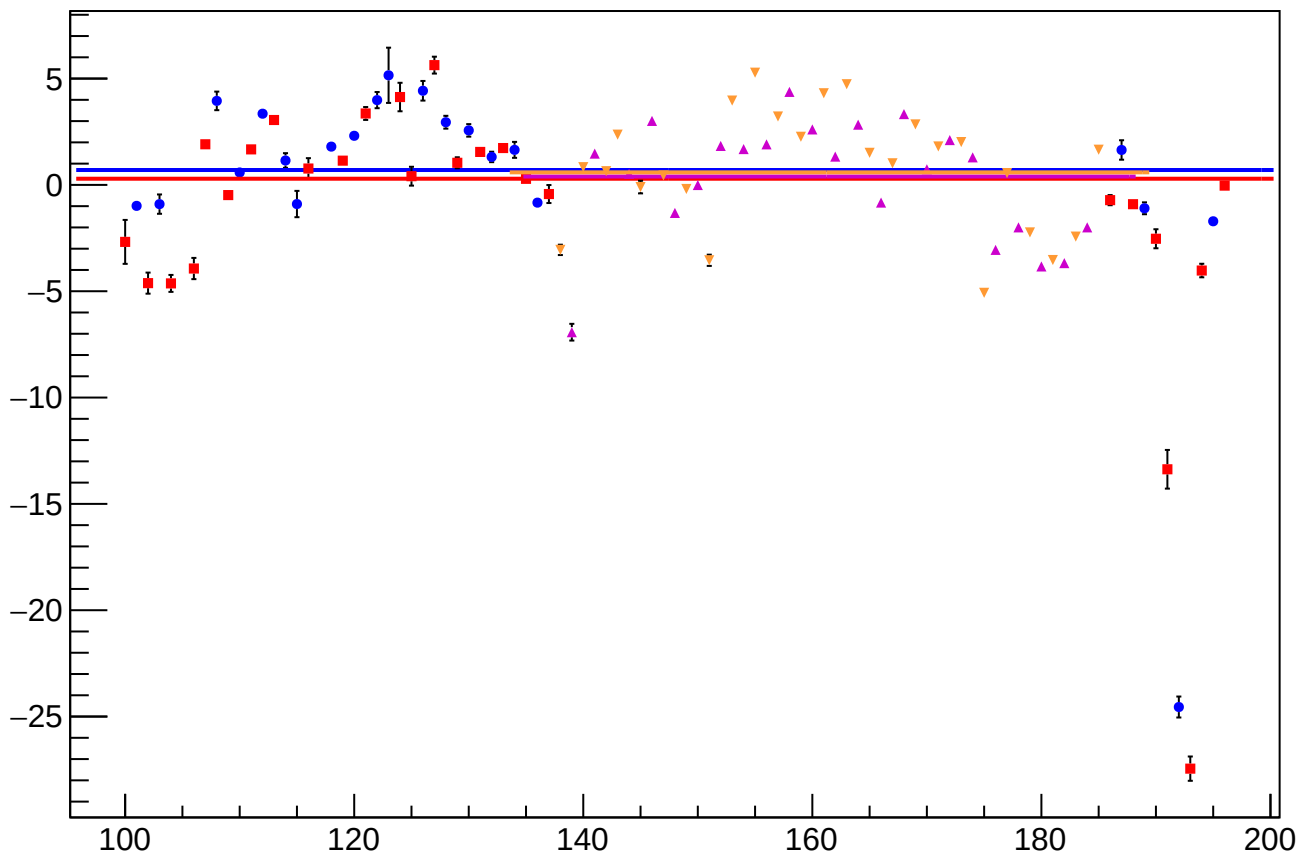
Right: 6.916+/-0.067 χ^2/NDF : 47512.1/10

In: -14.880+/-0.037 χ^2/NDF : 111305.9/26

Out: -13.678+/-0.036 χ^2/NDF : 183751.7/31

All: -14.252+/-0.026 χ^2/NDF : 295595.0/58

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.700 ± 0.059 $\chi^2/\text{NDF}: 3533.4/20$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.290 ± 0.052 $\chi^2/\text{NDF}: 3984.3/25$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

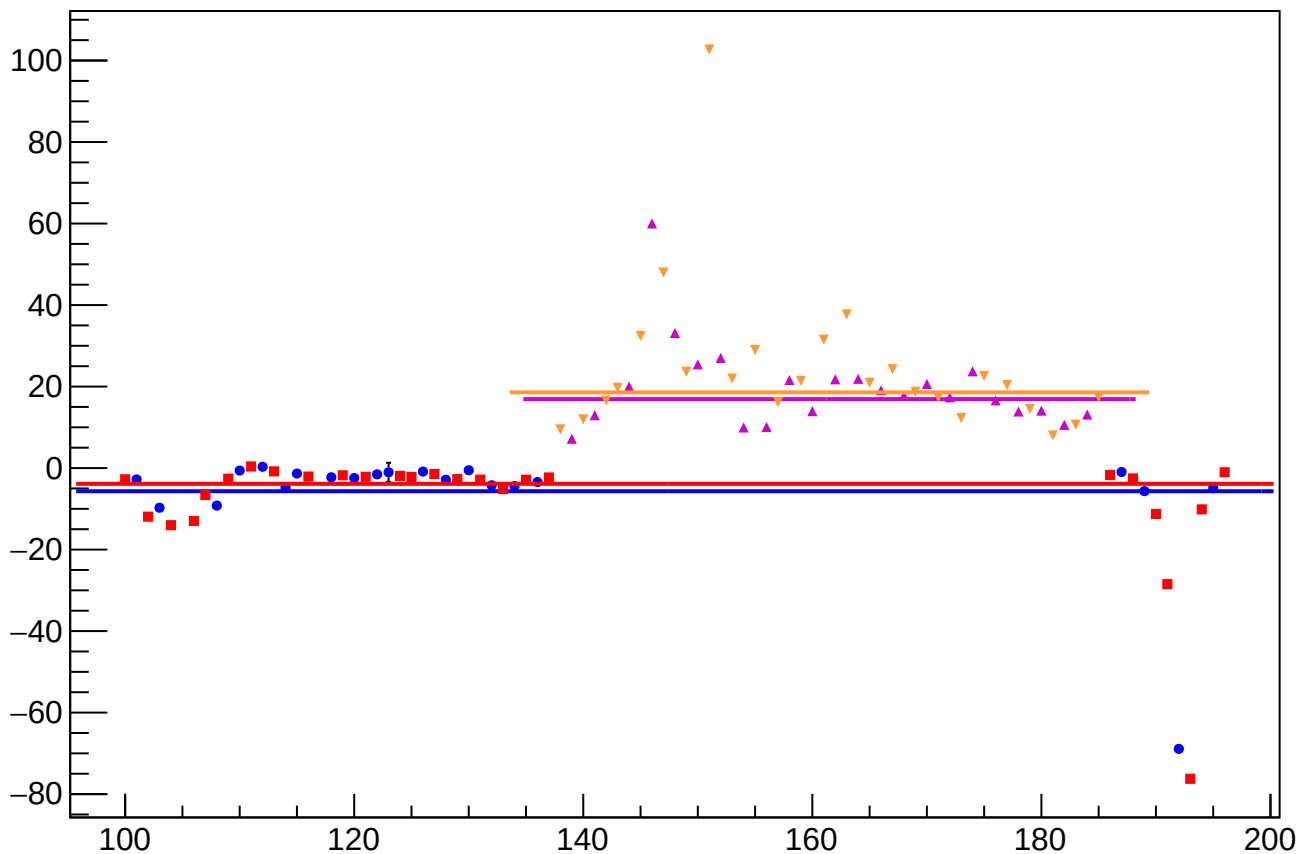
Right: 0.470 ± 0.039 $\chi^2/\text{NDF}: 7545.2/46$

In: 0.463 ± 0.028 $\chi^2/\text{NDF}: 9614.3/43$

Out: 0.503 ± 0.028 $\chi^2/\text{NDF}: 10804.6/50$

All: 0.483 ± 0.020 $\chi^2/\text{NDF}: 20419.9/94$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.682 ± 0.078 $\chi^2/\text{NDF}: 24596.1/20$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -3.862 ± 0.055 $\chi^2/\text{NDF}: 25432.5/25$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

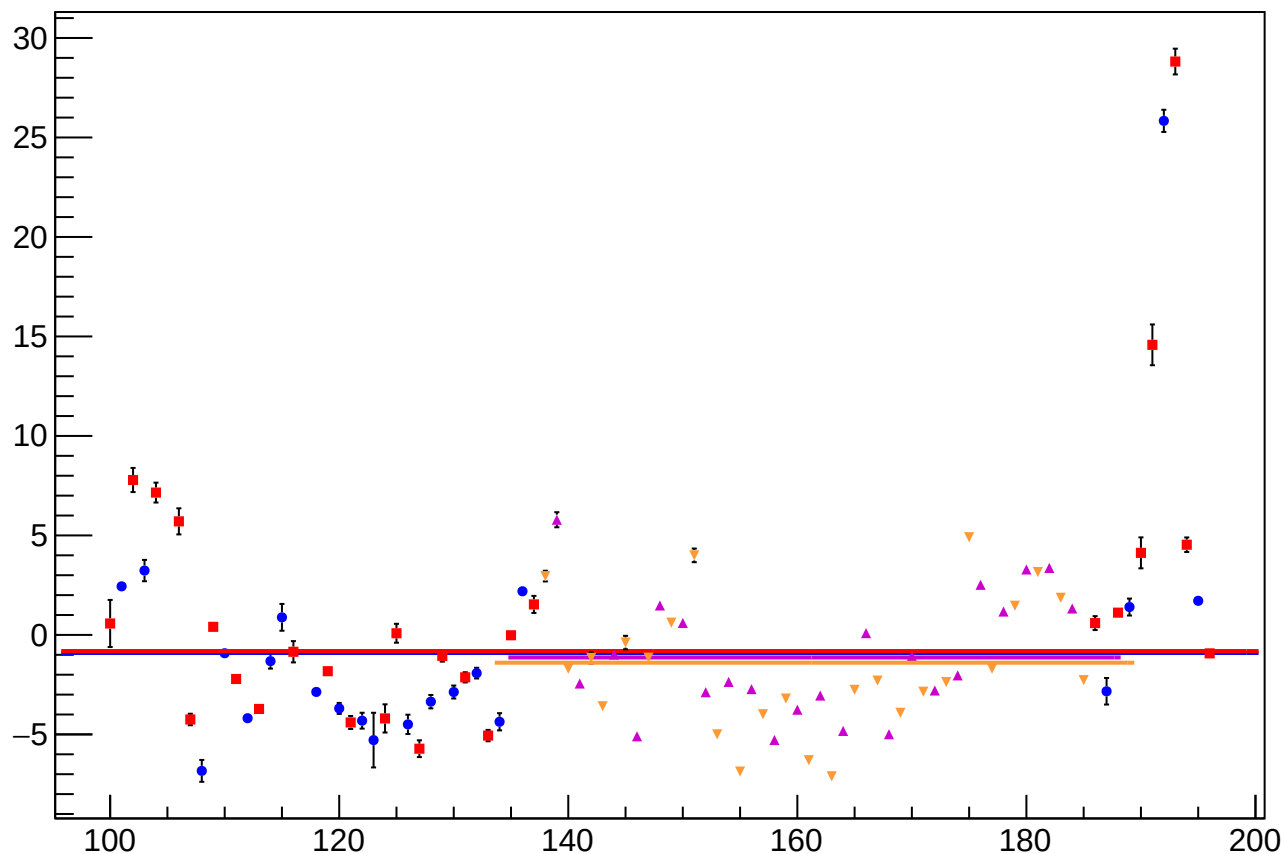
Right: -4.471 ± 0.045 $\chi^2/\text{NDF}: 50392.3/46$

In: 12.403 ± 0.035 $\chi^2/\text{NDF}: 132177.5/43$

Out: 10.793 ± 0.033 $\chi^2/\text{NDF}: 209136.1/50$

All: 11.544 ± 0.024 $\chi^2/\text{NDF}: 342454.4/94$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.908 ± 0.068 $\chi^2/\text{NDF}: 3753.7/20$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.810 ± 0.061 $\chi^2/\text{NDF}: 4244.8/25$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

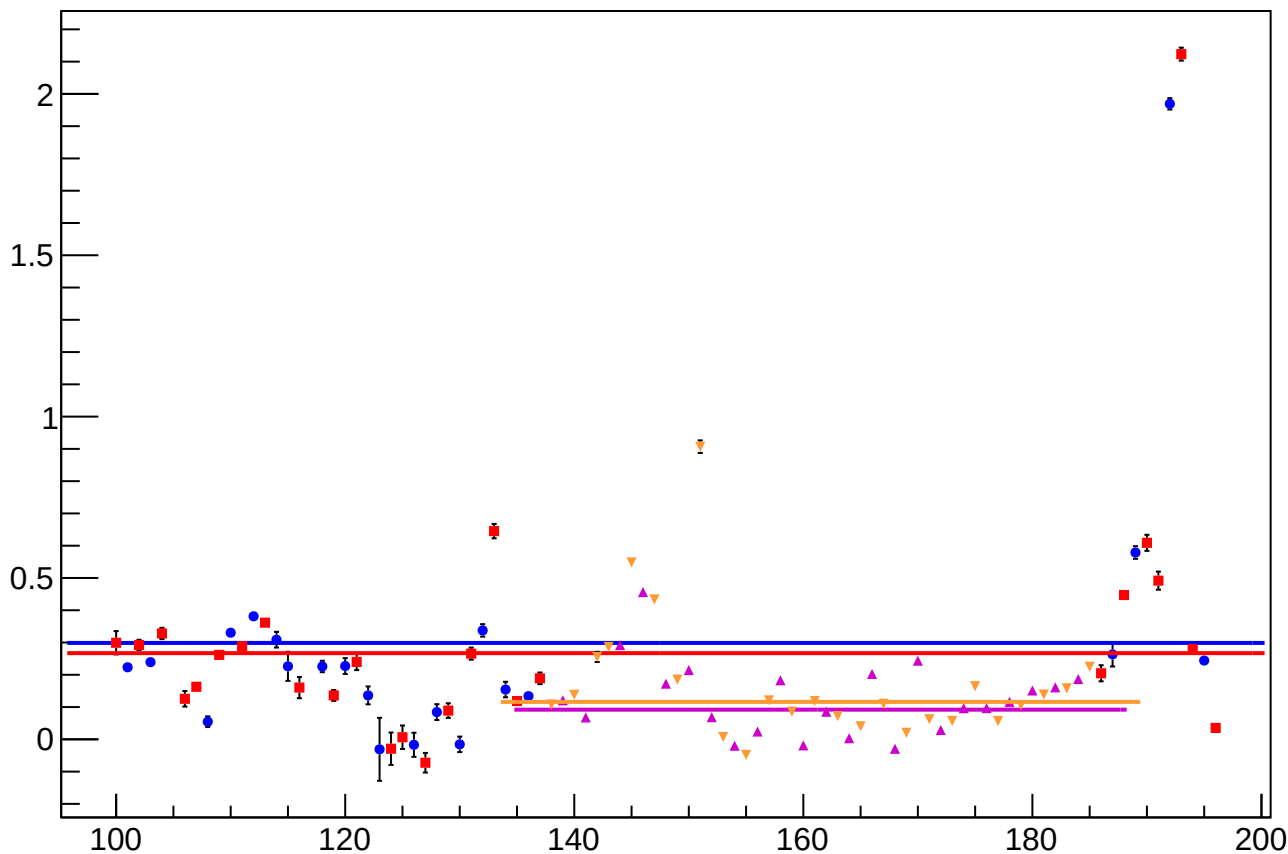
Right: -0.853 ± 0.045 $\chi^2/\text{NDF}: 7999.6/46$

In: -1.087 ± 0.031 $\chi^2/\text{NDF}: 10360.1/43$

Out: -1.238 ± 0.032 $\chi^2/\text{NDF}: 11964.3/50$

All: -1.162 ± 0.022 $\chi^2/\text{NDF}: 22336.0/94$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.299 ± 0.004 $\chi^2/\text{NDF}: 10340.6/20$

Left Out: 0.116 ± 0.002 $\chi^2/\text{NDF}: 4463.0/24$

Right Out: 0.267 ± 0.003 $\chi^2/\text{NDF}: 10996.1/25$

Left In: 0.092 ± 0.002 $\chi^2/\text{NDF}: 3631.4/22$

Left: 0.103 ± 0.001 $\chi^2/\text{NDF}: 8207.3/47$

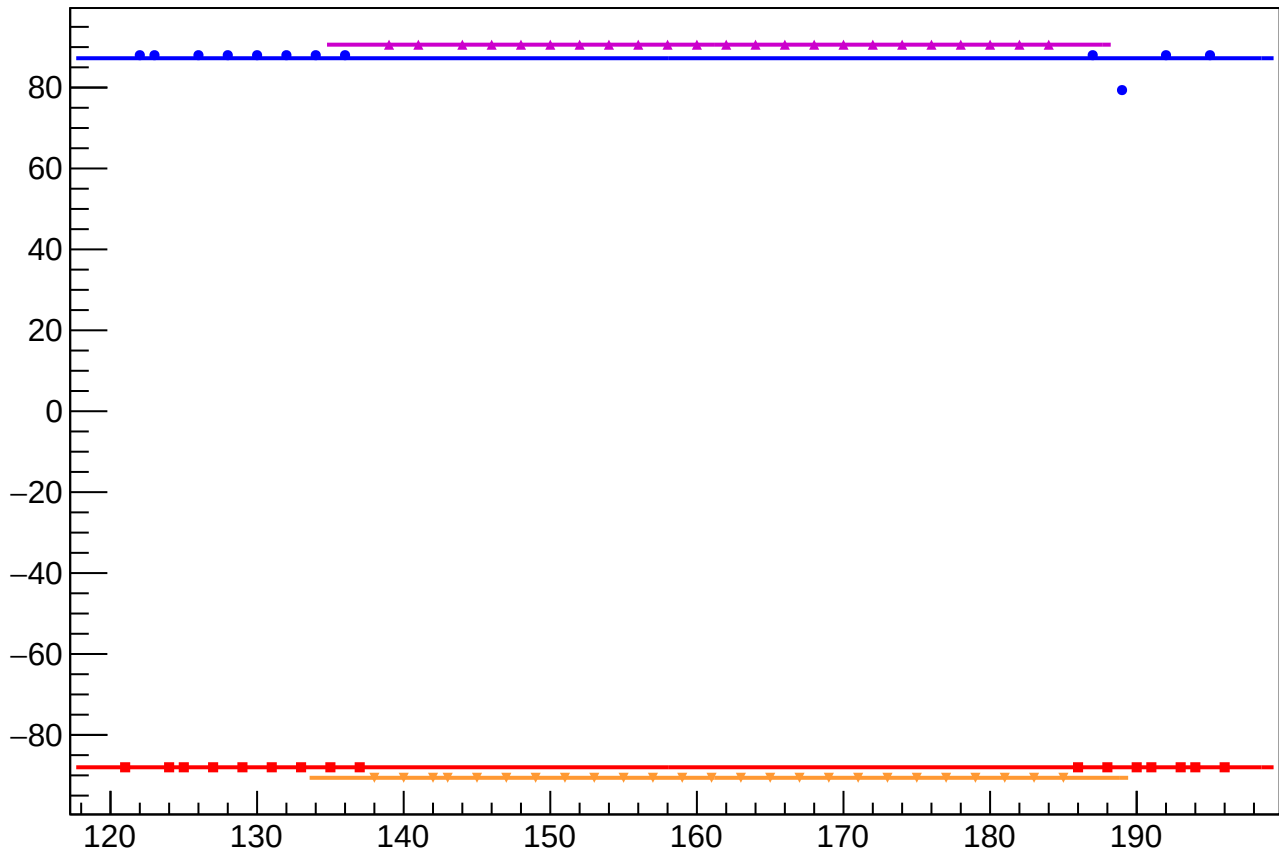
Right: 0.281 ± 0.002 $\chi^2/\text{NDF}: 21382.4/46$

In: 0.125 ± 0.001 $\chi^2/\text{NDF}: 16852.1/43$

Out: 0.150 ± 0.001 $\chi^2/\text{NDF}: 17335.1/50$

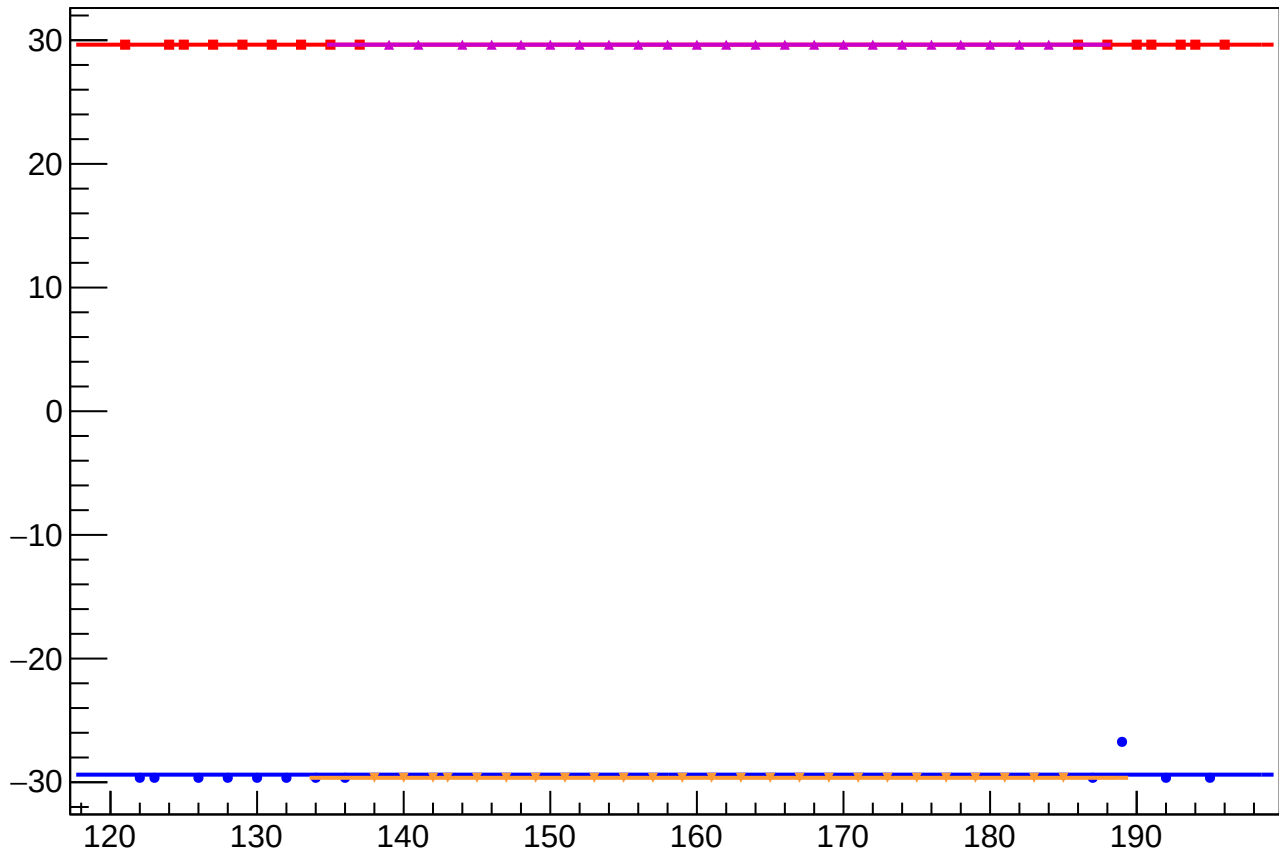
All: 0.137 ± 0.001 $\chi^2/\text{NDF}: 34330.8/94$

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.247+/-0.000	χ^2/NDF : 3464626946526282996857700016455680.0/11	Left: -2.410+/-0.000	χ^2/NDF : 30521213250005045
Left Out: -90.599+/-0.000	χ^2/NDF : 6053403.0/24	Right: -11.681+/-0.000	χ^2/NDF : 101282533245952
Right Out: -88.001+/-0.000	χ^2/NDF : 365526.6/15	In: 89.782+/-0.000	χ^2/NDF : 842643693854292057
Left In: 90.599+/-0.000	χ^2/NDF : 5932436.0/22	Out: -89.862+/-0.000	χ^2/NDF : 3660859068199417
		All: -4.866+/-0.000	χ^2/NDF : 4073418335746

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.387 $\pm$ 0.000

χ^2 /NDF: 393062124941034551811187777994752.0/11

Left: -0.789 $\pm$ 0.000

χ^2 /NDF: 32668496095314519

Left Out: -29.641 $\pm$ 0.000

χ^2 /NDF: 654199.2/24

Right: 3.934 $\pm$ 0.000

χ^2 /NDF: 11490509180788050

Right Out: 29.641 $\pm$ 0.000

χ^2 /NDF: 917842.8/15

In: 15.247 $\pm$ 0.000

χ^2 /NDF: 153903128890994197

Out: -12.814 $\pm$ 0.000

χ^2 /NDF: 1905211637248968

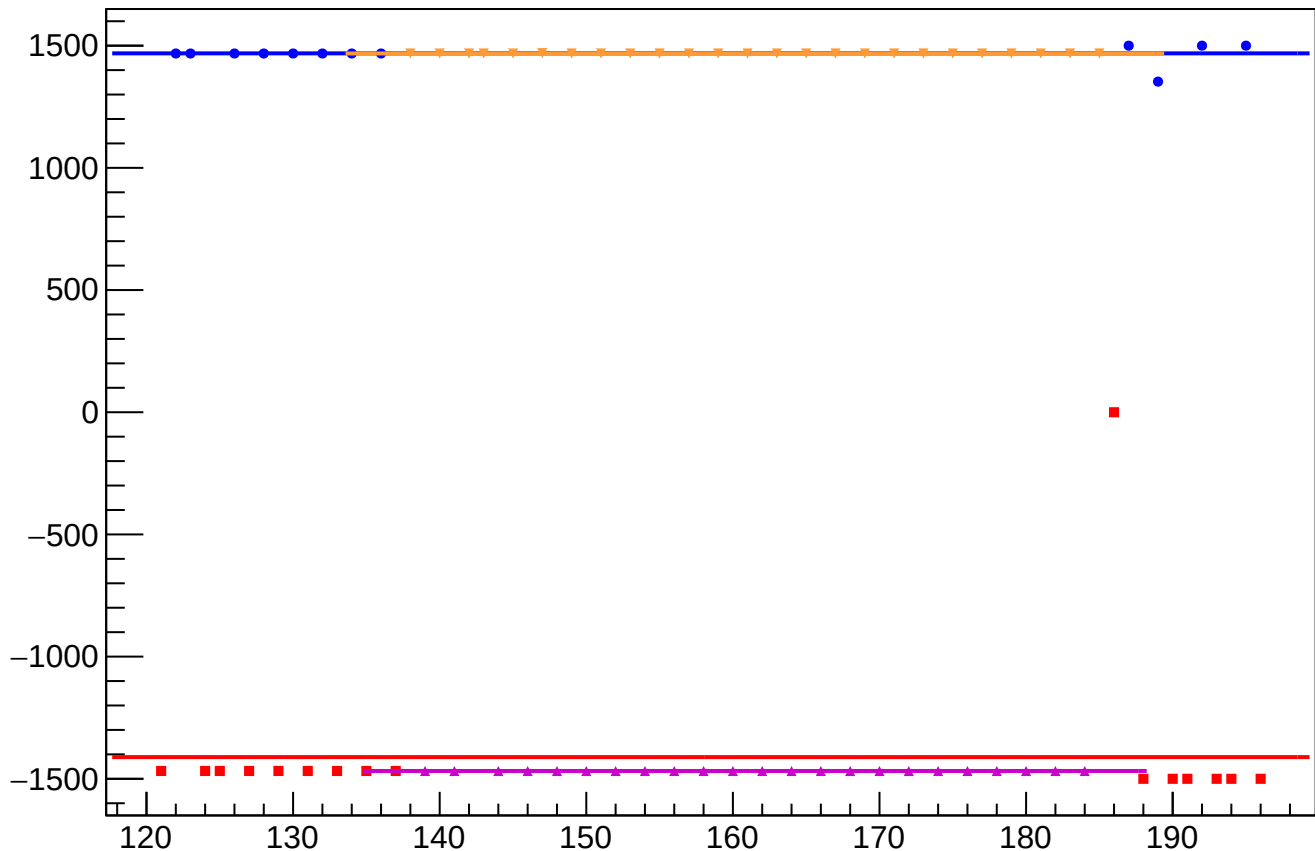
Left In: 29.641 $\pm$ 0.000

χ^2 /NDF: 511825.6/22

All: 0.463 $\pm$ 0.000

χ^2 /NDF: 44378895865878

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1468.570 +/- 0.000

χ^2/NDF : 873632559050777034310875655763394560.0/11

Left Out: 1468.048 +/- 0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1411.295 +/- 0.000

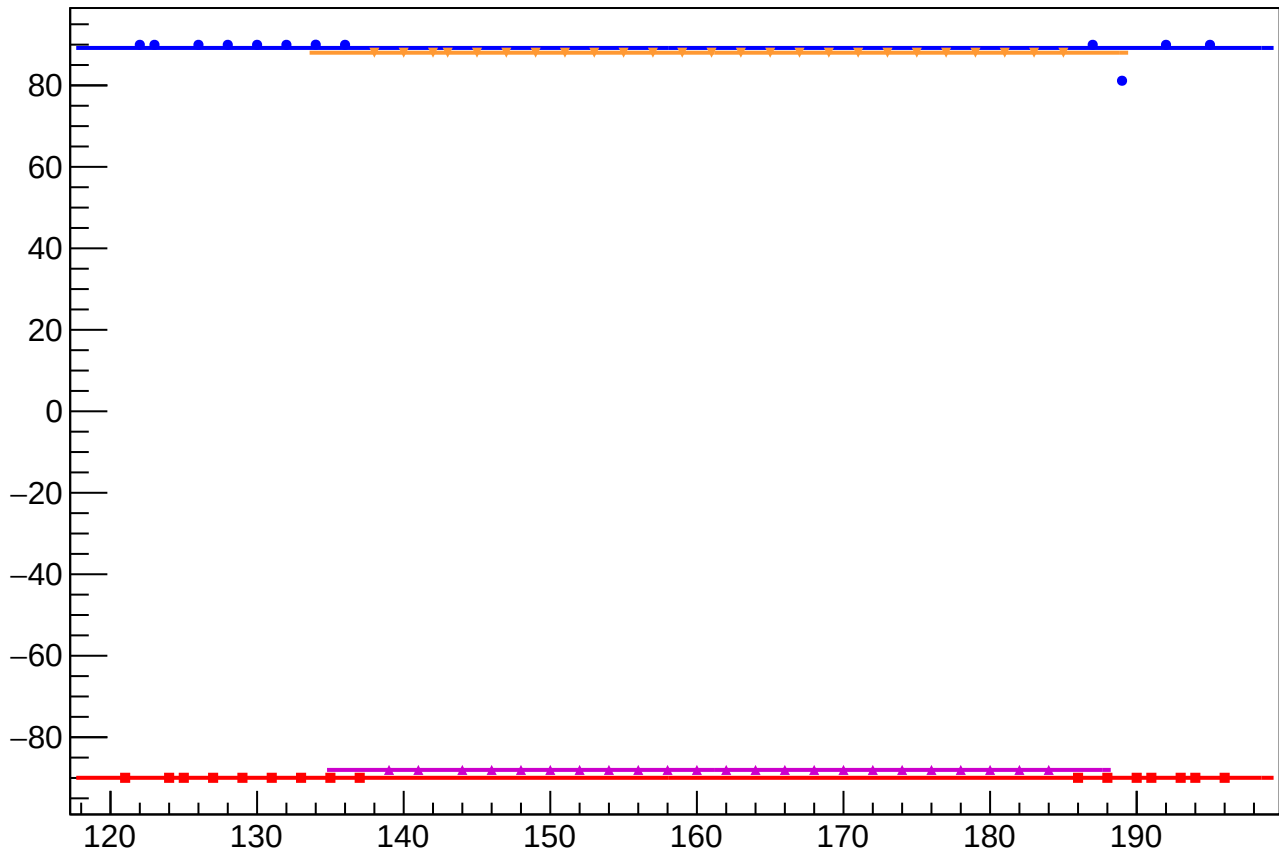
χ^2/NDF : 79867404208192270033800631340647841792.0/15

Left In: -1467.994 +/- 0.000

χ^2/NDF : 145848702340275035310993178624.0/22

All: -12.894 +/- 0.000 χ^2/NDF : 108662474452

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.190+/-0.000

χ^2/NDF : 3621655781974890227763223885512704.0/11

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -11.940+/-0.000 χ^2/NDF : 105842522151181

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 2225471.3/15

In: -44.809+/-0.000 χ^2/NDF : 13871405959327323

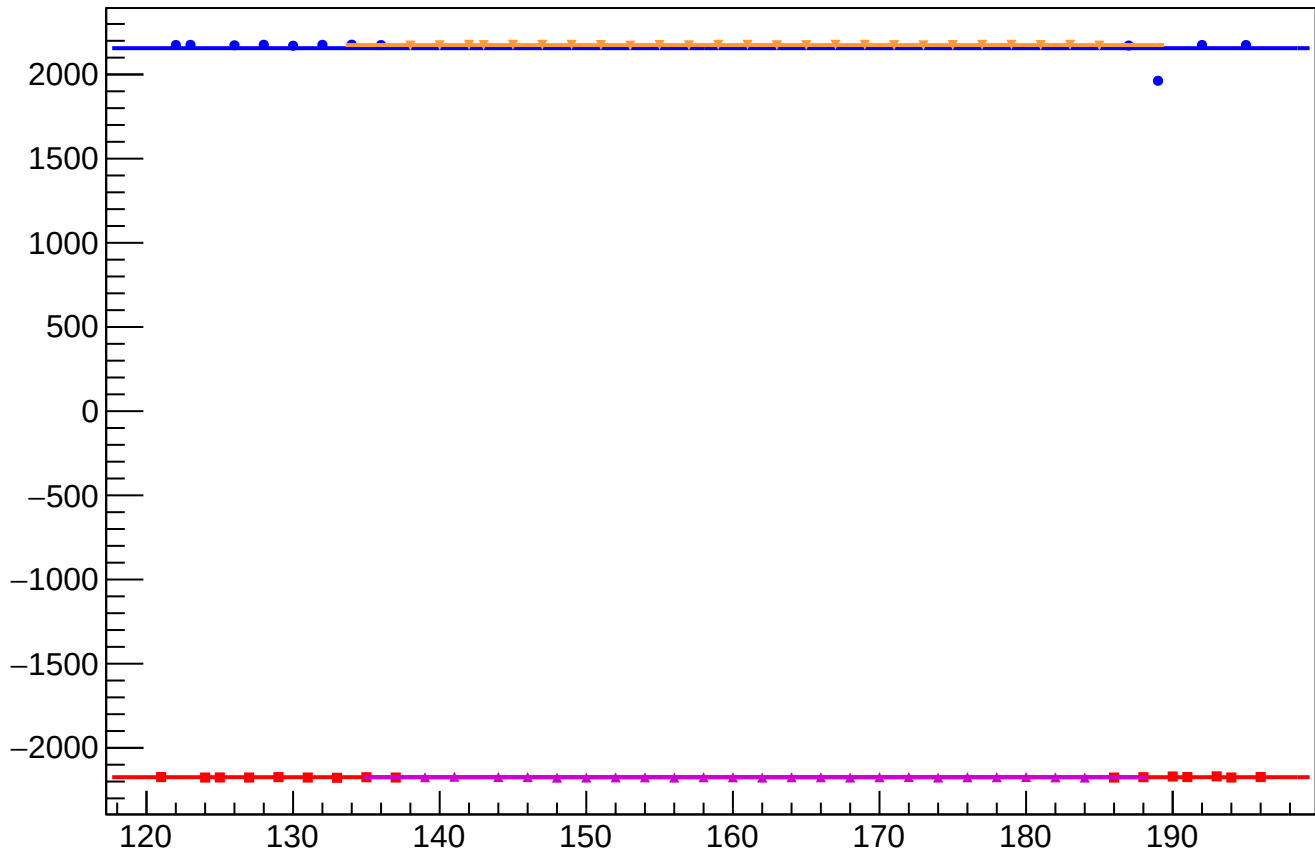
Out: 37.503+/-0.000 χ^2/NDF : 17173097511791497

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

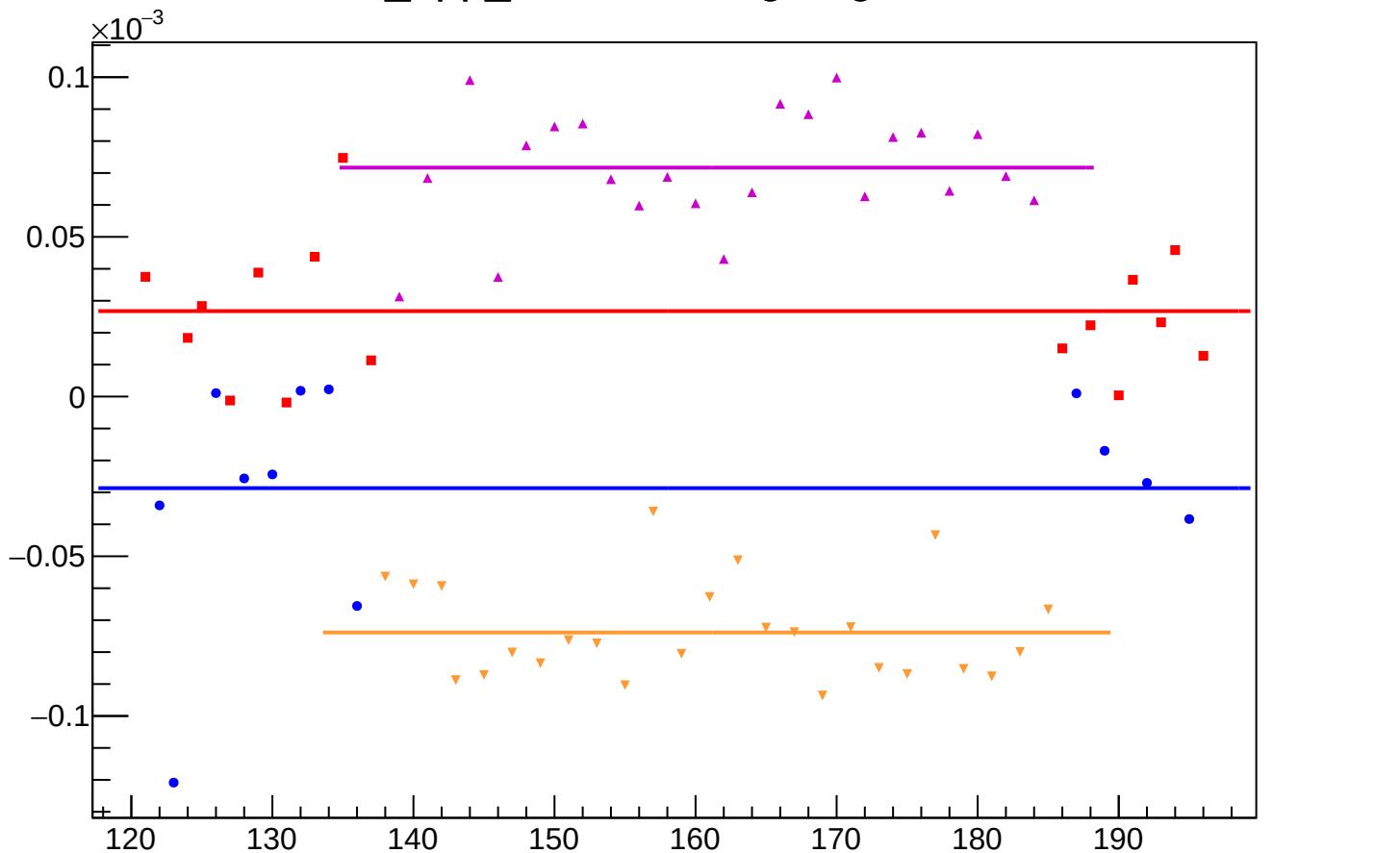
All: -1.442+/-0.000 χ^2/NDF : 3959390470445

HALLA_p_mean vs Slug, Sign Corrected



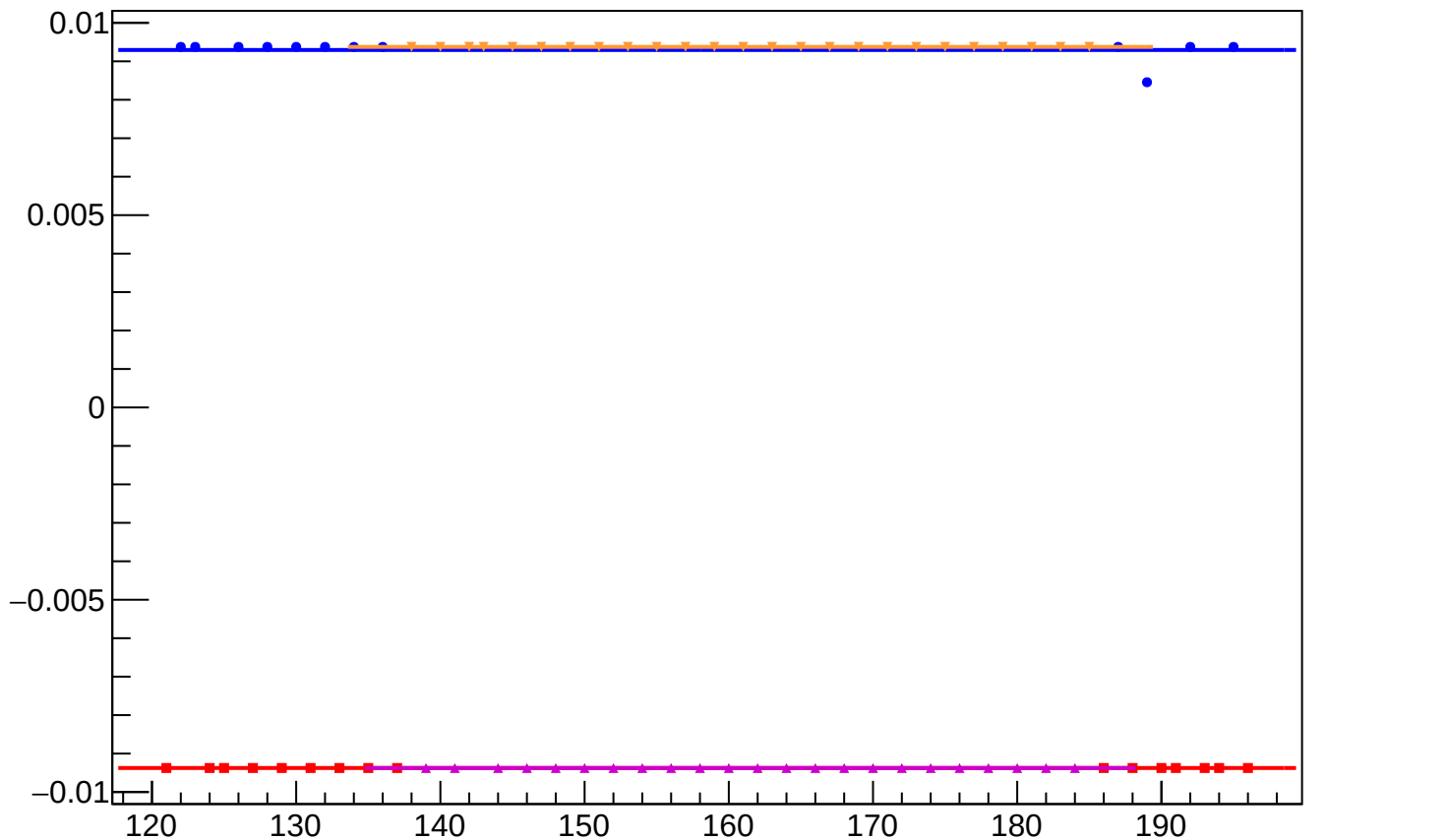
Right In: 2156.096+/-0.000	χ^2/NDF : 2093313906167101625015386119725907968.0/11	Left: 57.898+/-0.000	χ^2/NDF : 1758341875465085
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -288.386+/-0.000	χ^2/NDF : 61839614962559
Right Out: -2174.222+/-0.000	χ^2/NDF : 4005435792971347725154947327590400.0/15	In: -1118.551+/-0.000	χ^2/NDF : 828397532978570
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 940.248+/-0.000	χ^2/NDF : 1025307839947778
	All: -33.838+/-0.000	χ^2/NDF : 238855841840	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 278443831084912474062848.0/11$
 Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 450400934180541069000704.0/24$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 285492795437640914567168.0/15$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 562166279020739416817664.0/22$
 All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 2231103542261$

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39321198567183025323376640.0/11

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/15

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1149489010683969

In: -0.005+/-0.000

χ^2/NDF : 153961806728171022

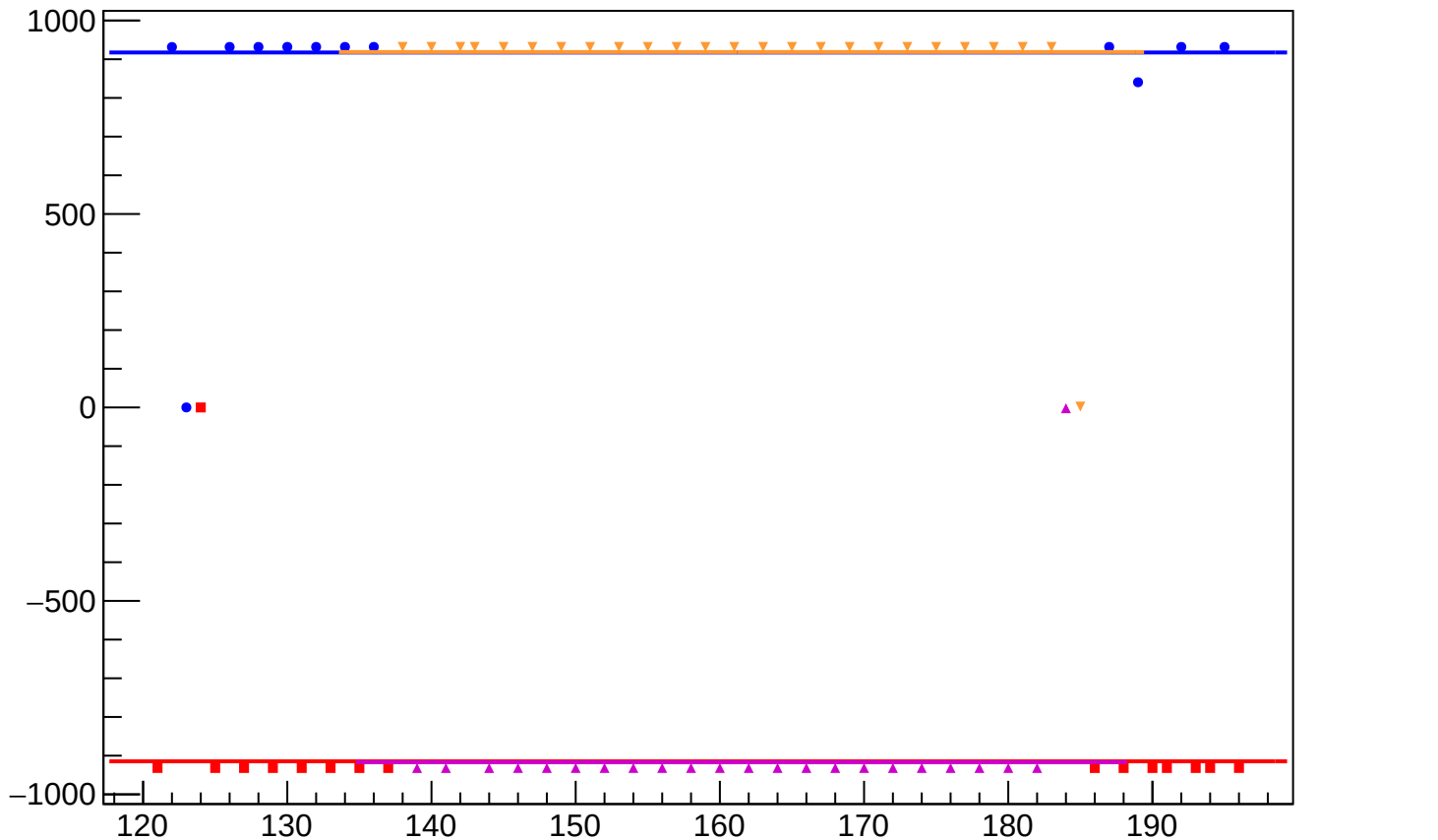
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

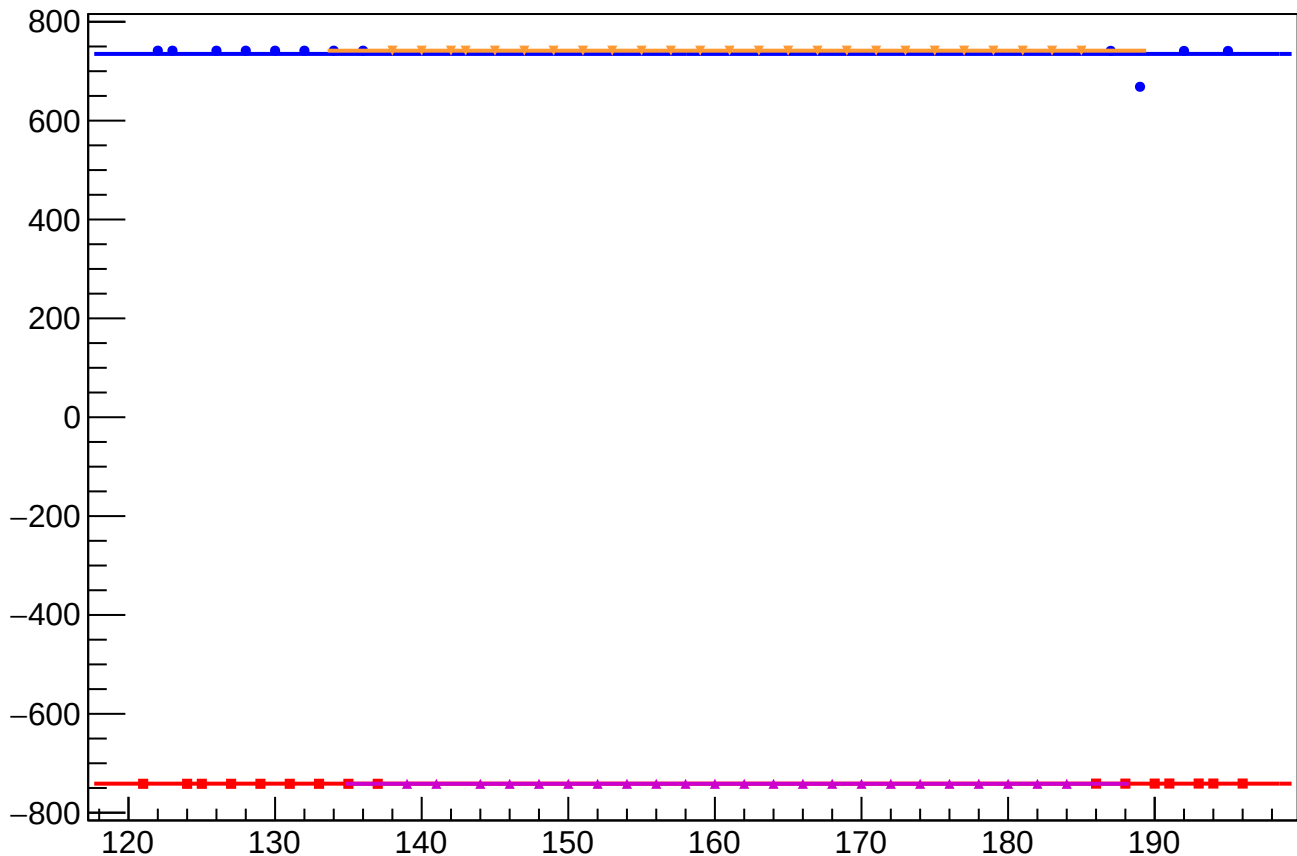
χ^2/NDF : 4439581597429

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 917.438+/-0.000 χ^2/NDF : 3777515256990711943713212544197853184.0/11
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -914.580+/-0.000 χ^2/NDF : 11930227895577111478040748451535257600.0/15
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: -12.333+/-0.000 χ^2/NDF : 432170396992

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 734.987+/-0.000

χ^2/NDF : 247044793494099417244258393202360320.0/11

Left Out: 741.513+/-0.000

χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.266+/-0.000

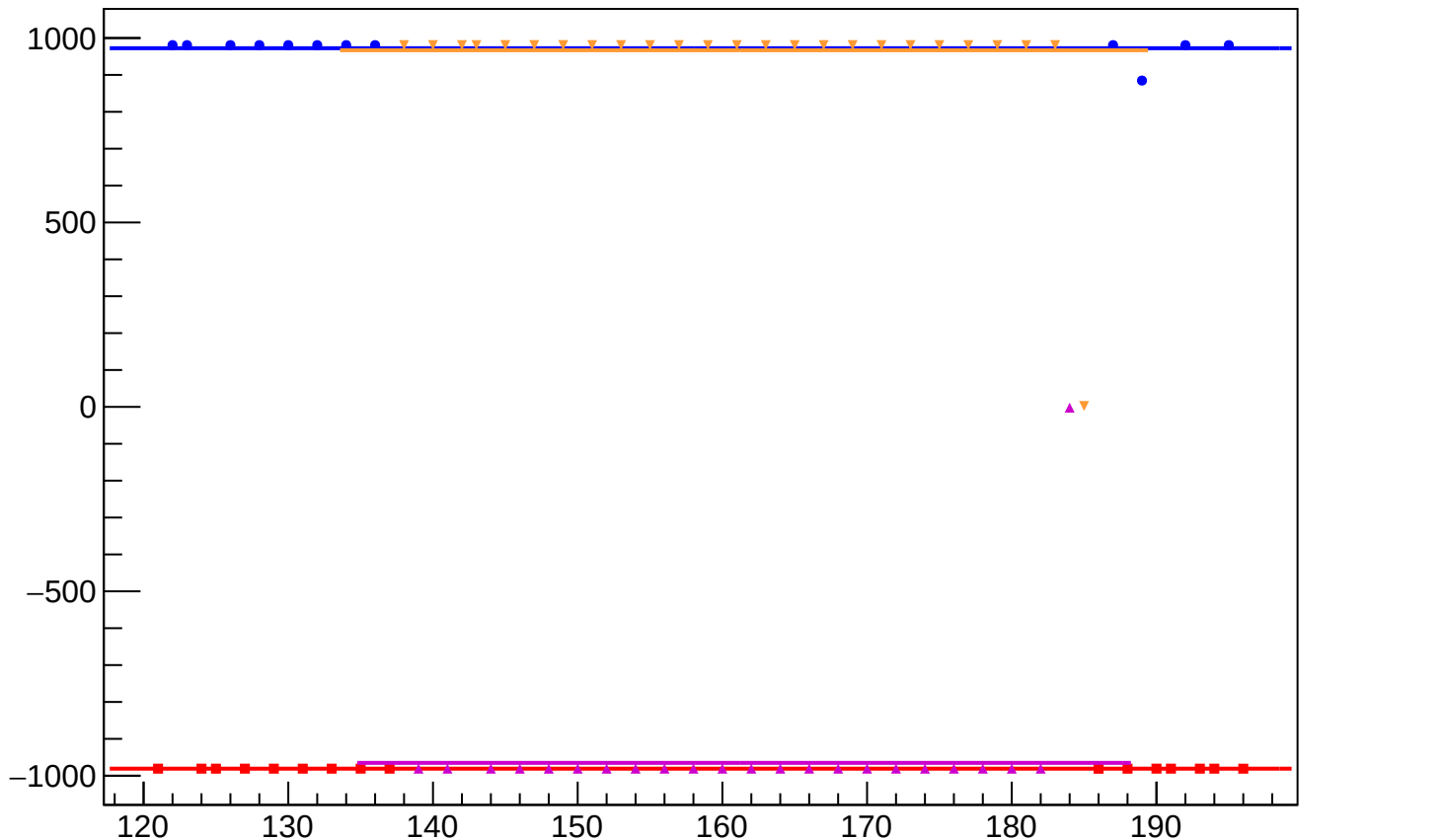
χ^2/NDF : 39386545126525910265631288066048.0/15

Left In: -741.512+/-0.000

χ^2/NDF : 215375309108434607405602439168.0/22

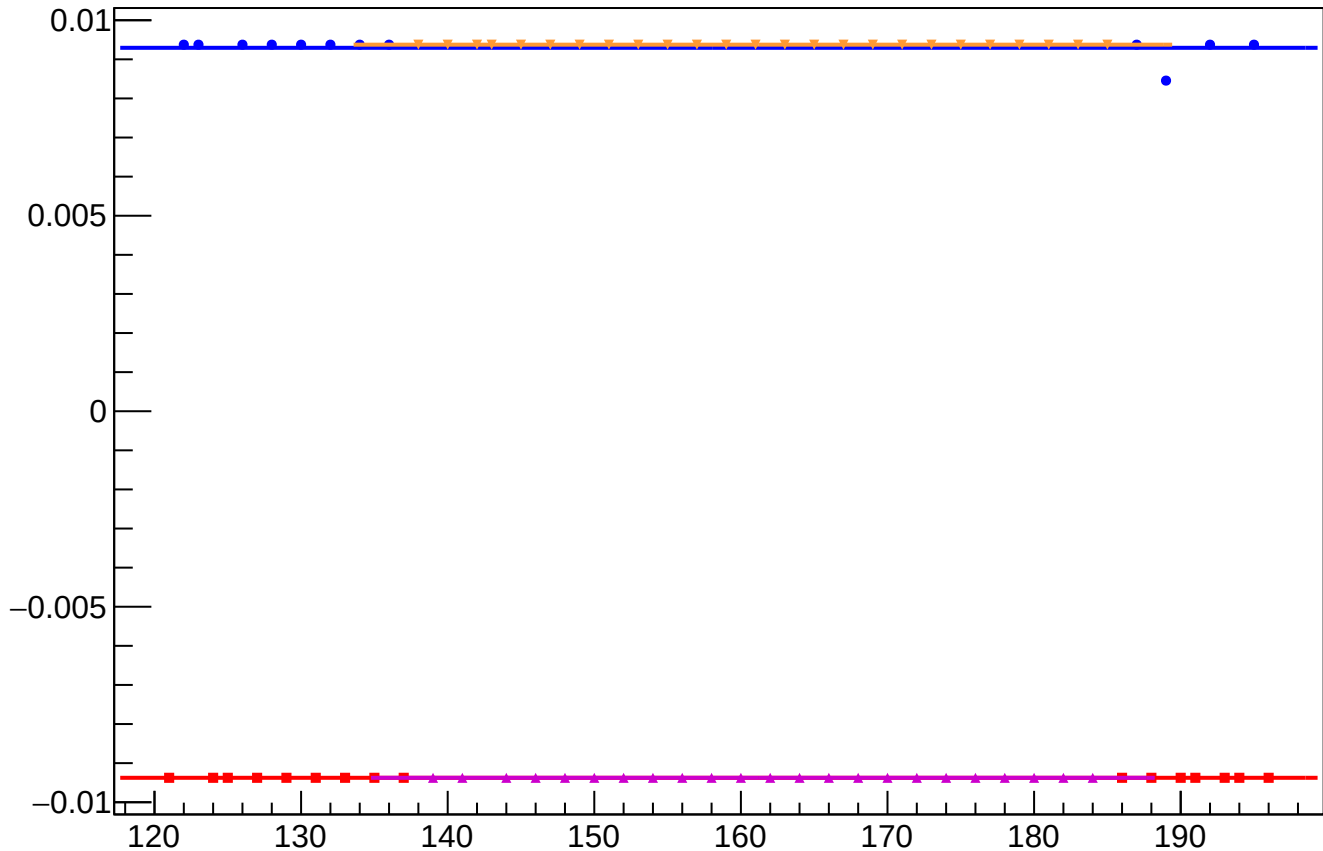
All: -11.556+/-0.000 χ^2/NDF : 277696278498

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Left: 26.619 +/- 0.000 χ^2/NDF : 35227684296675597
 Right: -130.205 +/- 0.000 χ^2/NDF : 12581955173751
 In: -492.655 +/- 0.000 χ^2/NDF : 1685506797832294
 Out: 414.080 +/- 0.000 χ^2/NDF : 2082251316195510
 All: -14.926 +/- 0.000 χ^2/NDF : 480520714229

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39321198567183025323376640.0/11

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/15

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1149489010683969

In: -0.005+/-0.000

χ^2/NDF : 153961806728171022

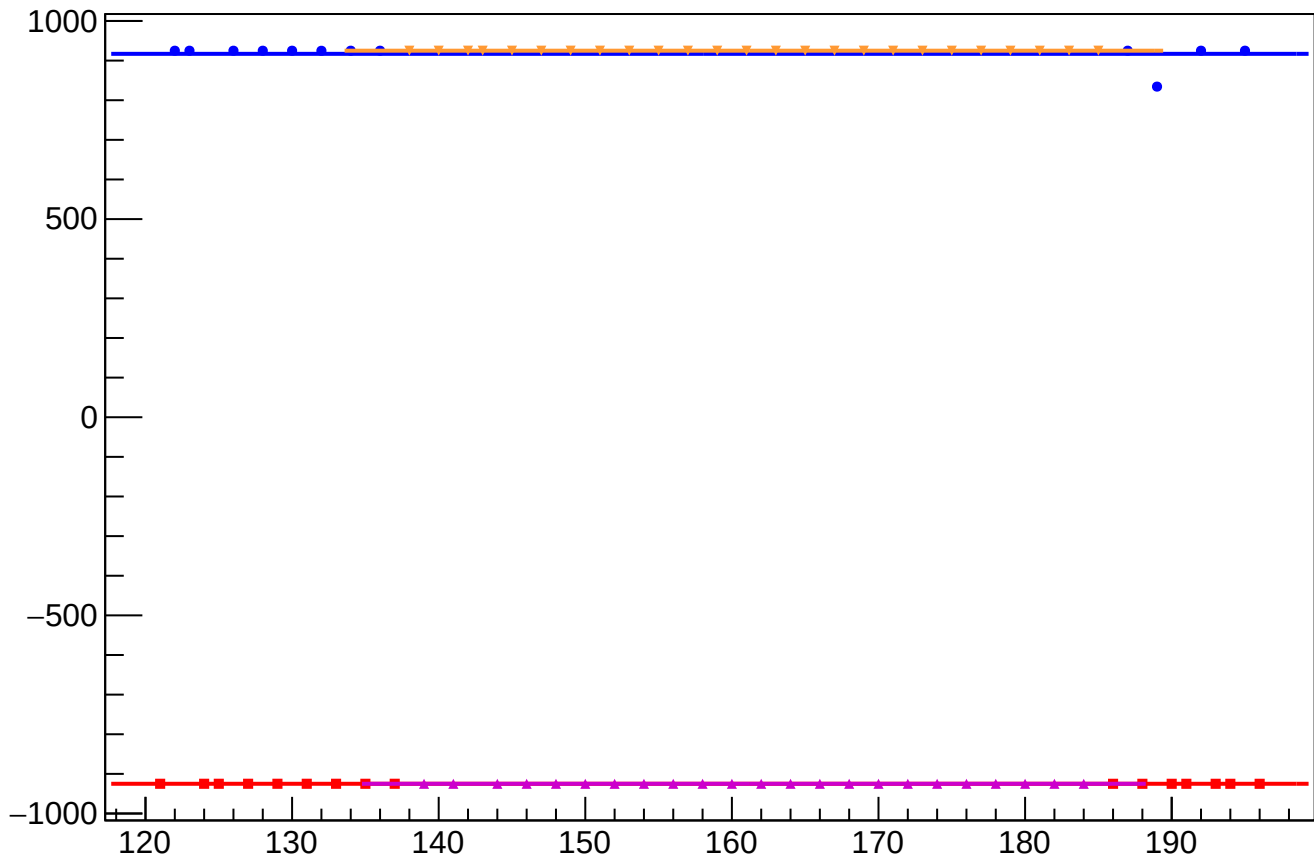
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

χ^2/NDF : 4439581597429

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 917.053+/-0.000

χ^2/NDF : 382297033784759375108134664478392320.0/11

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.992+/-0.000

χ^2/NDF : 749870321219263932748531761152.0/15

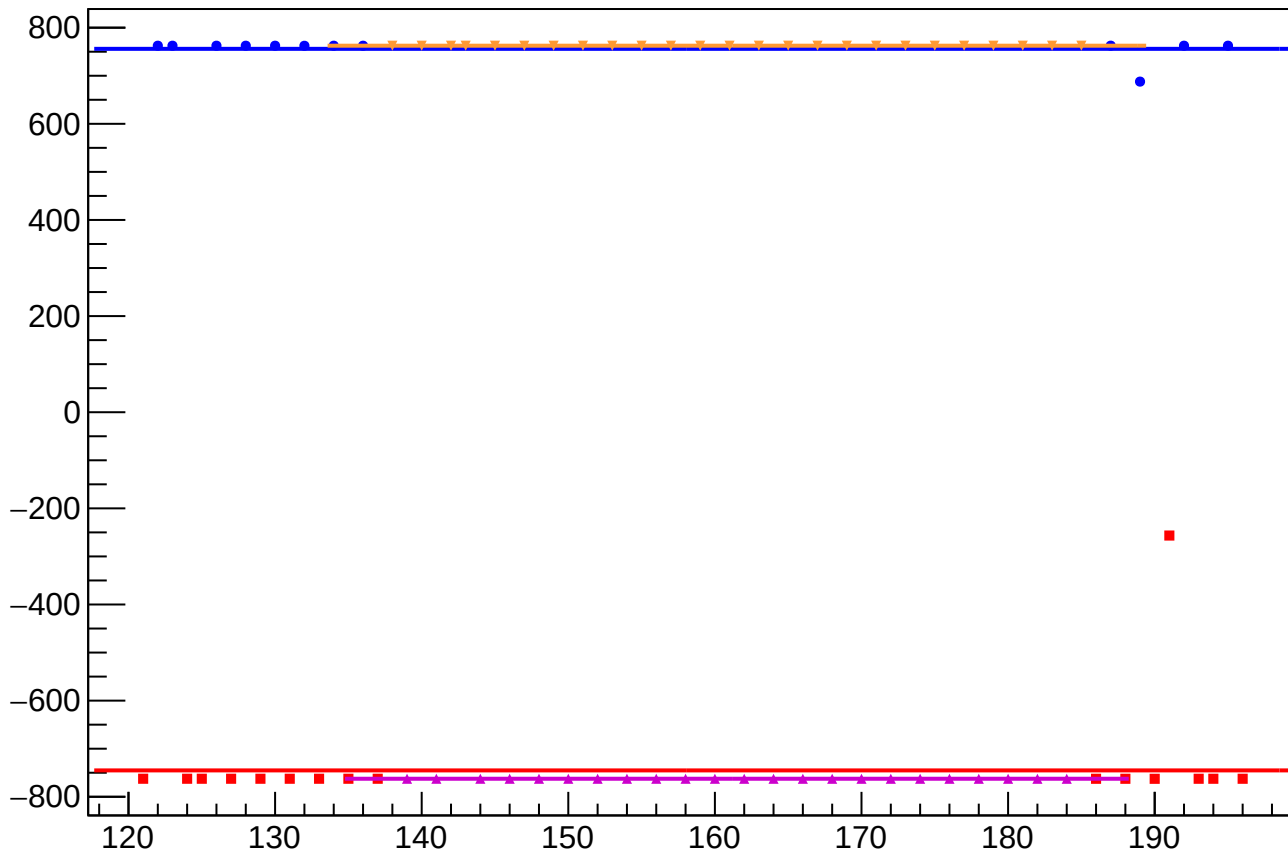
Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

All: -14.438+/-0.000

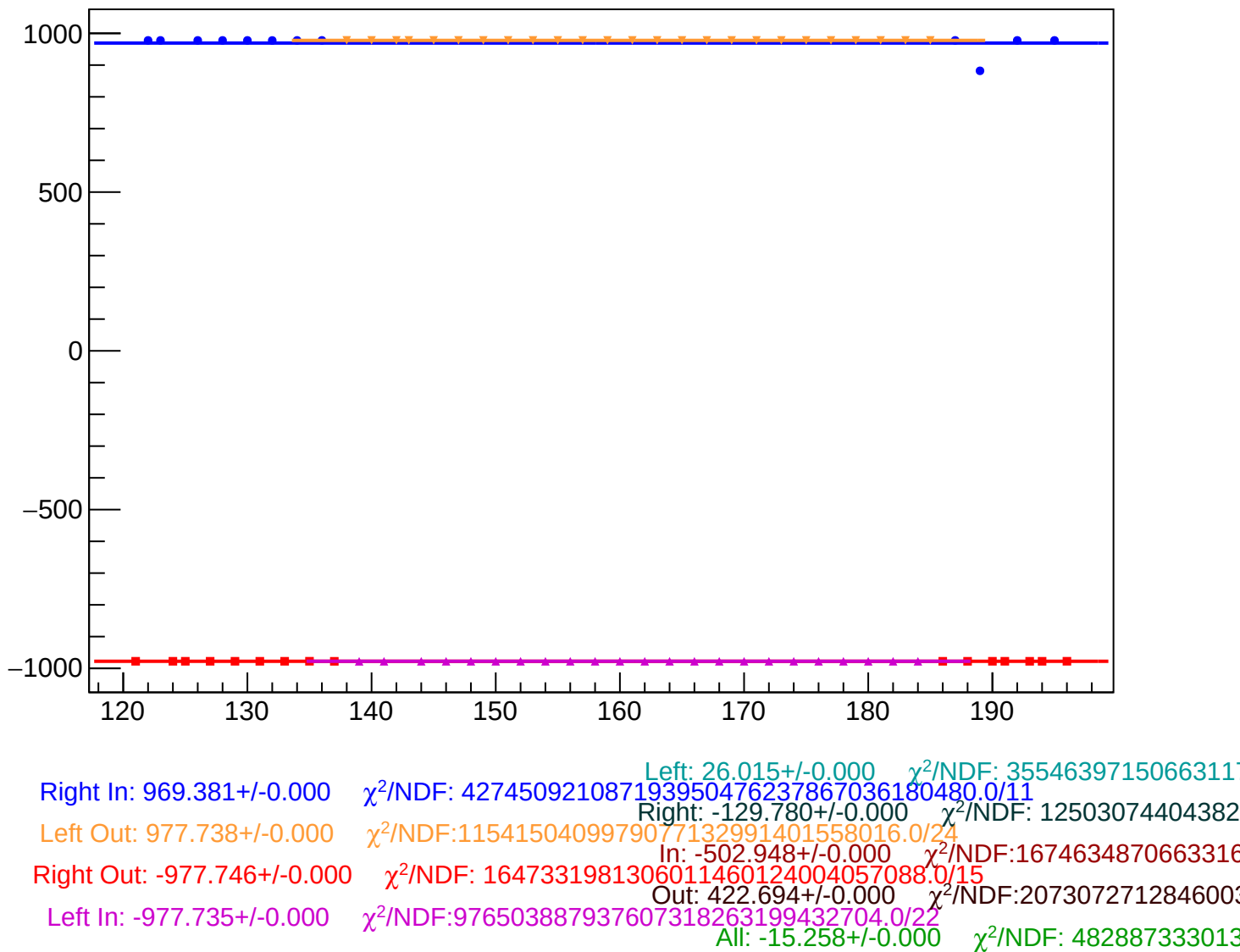
χ^2/NDF : 432182208504

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected

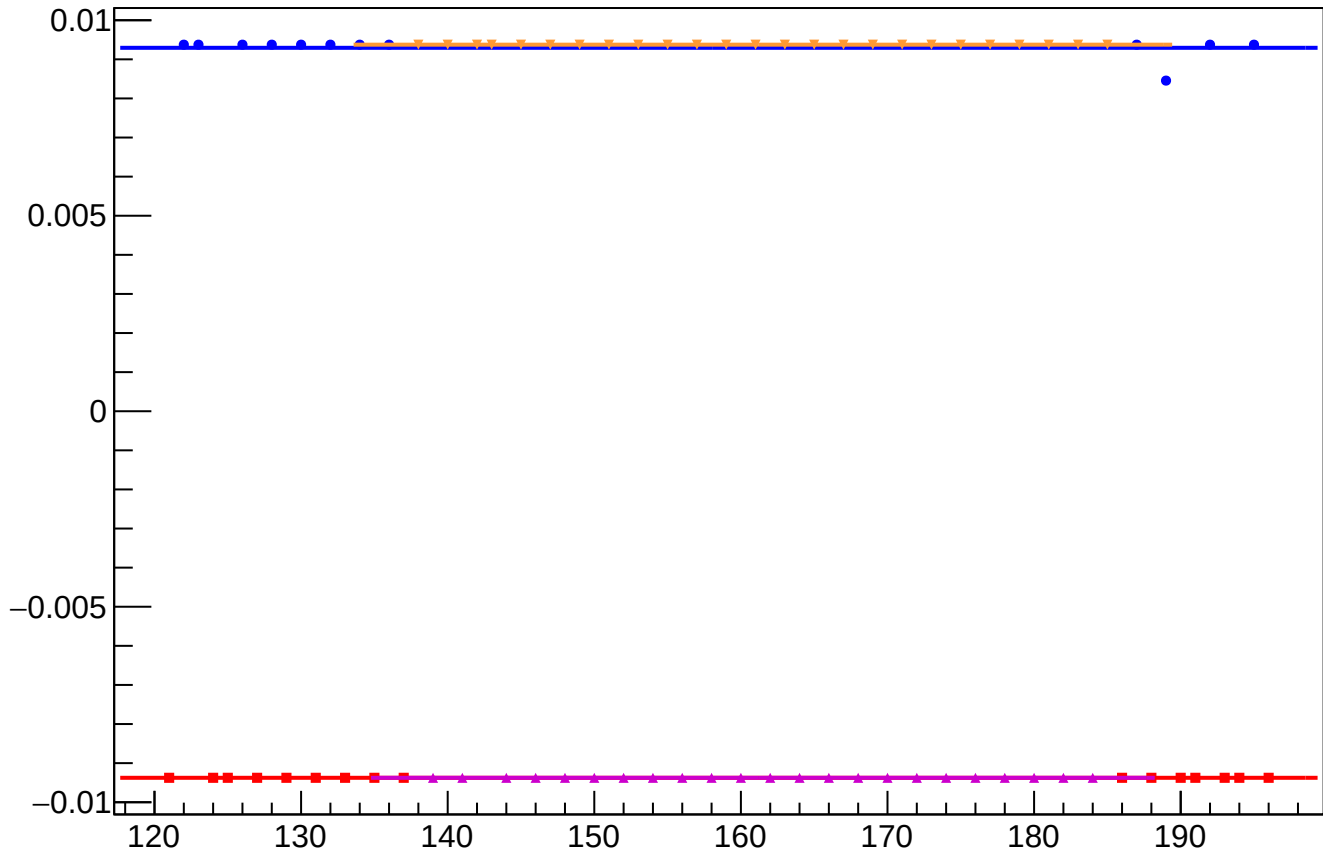


Right In: 755.979+/-0.000 χ^2/NDF : 259662381935853714767513217893662720.0/11
 Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -745.151+/-0.000 χ^2/NDF : 6427750785195720132806182545681022976.0/15
 Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: -9.305+/-0.000 χ^2/NDF : 2923850817653

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39321198567183025323376640.0/11

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/15

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1149489010683969

In: -0.005+/-0.000

χ^2/NDF : 153961806728171022

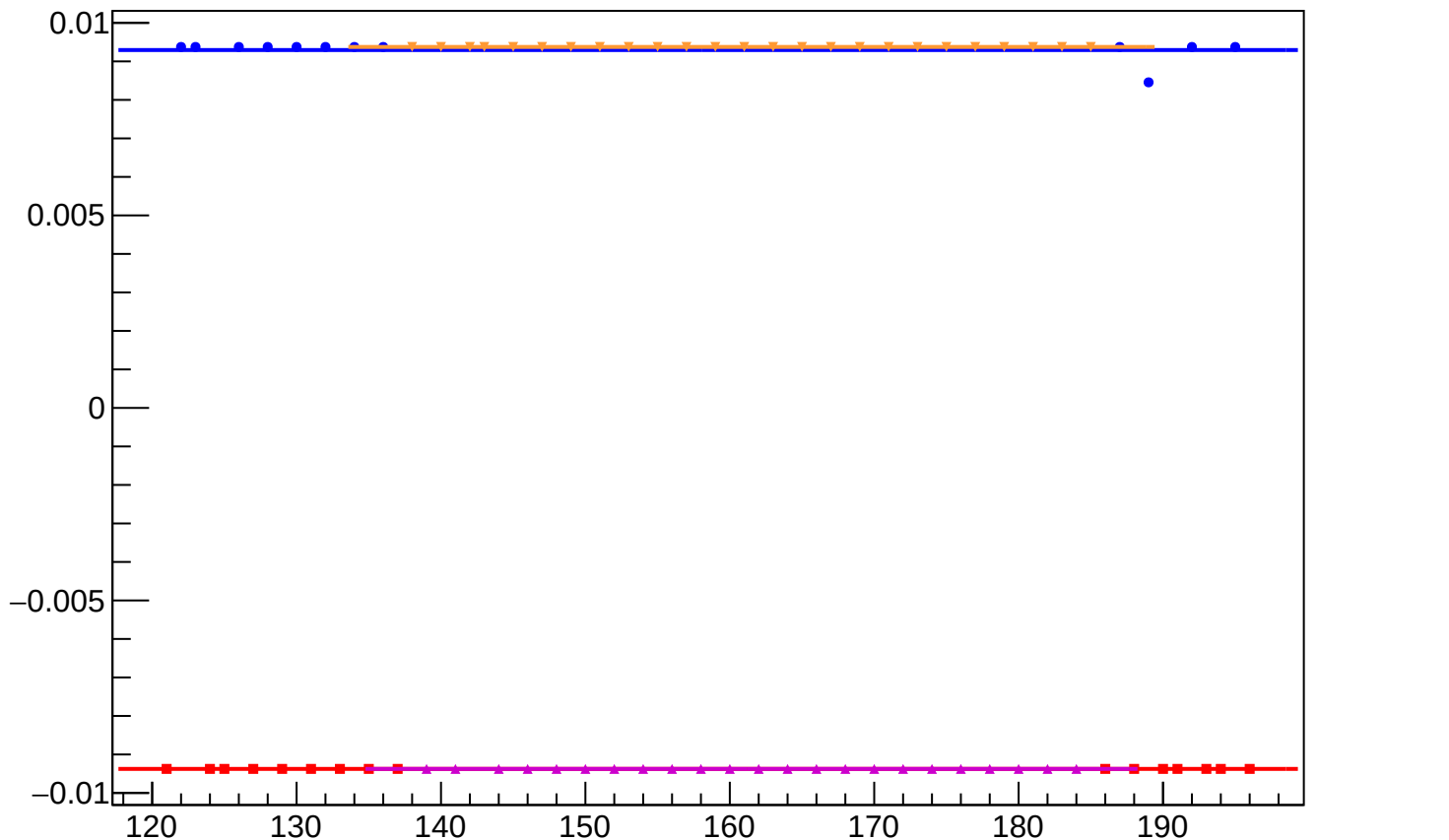
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

χ^2/NDF : 4439581597429

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39321198567183025323376640.0/11

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/15

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1149489010683969

In: -0.005+/-0.000

χ^2/NDF : 153961806728171022

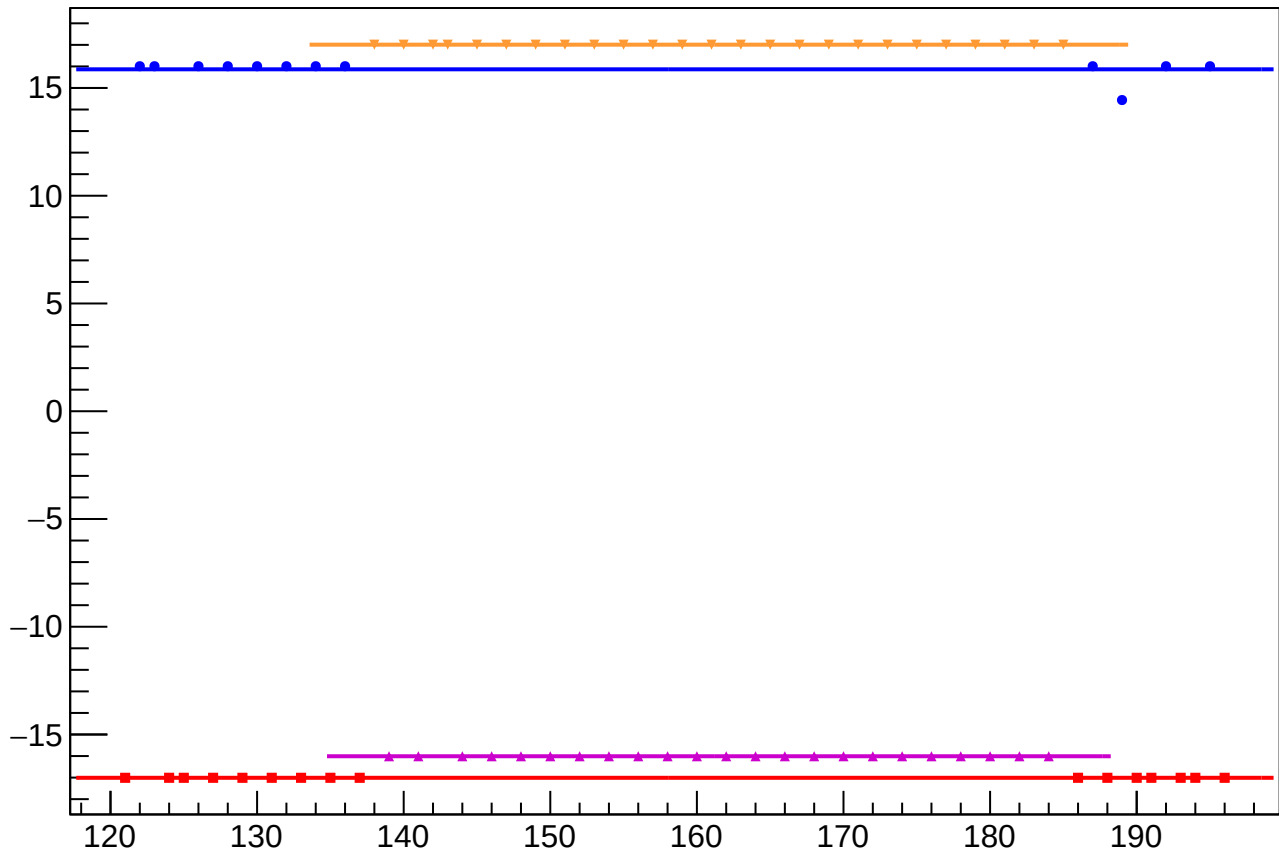
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

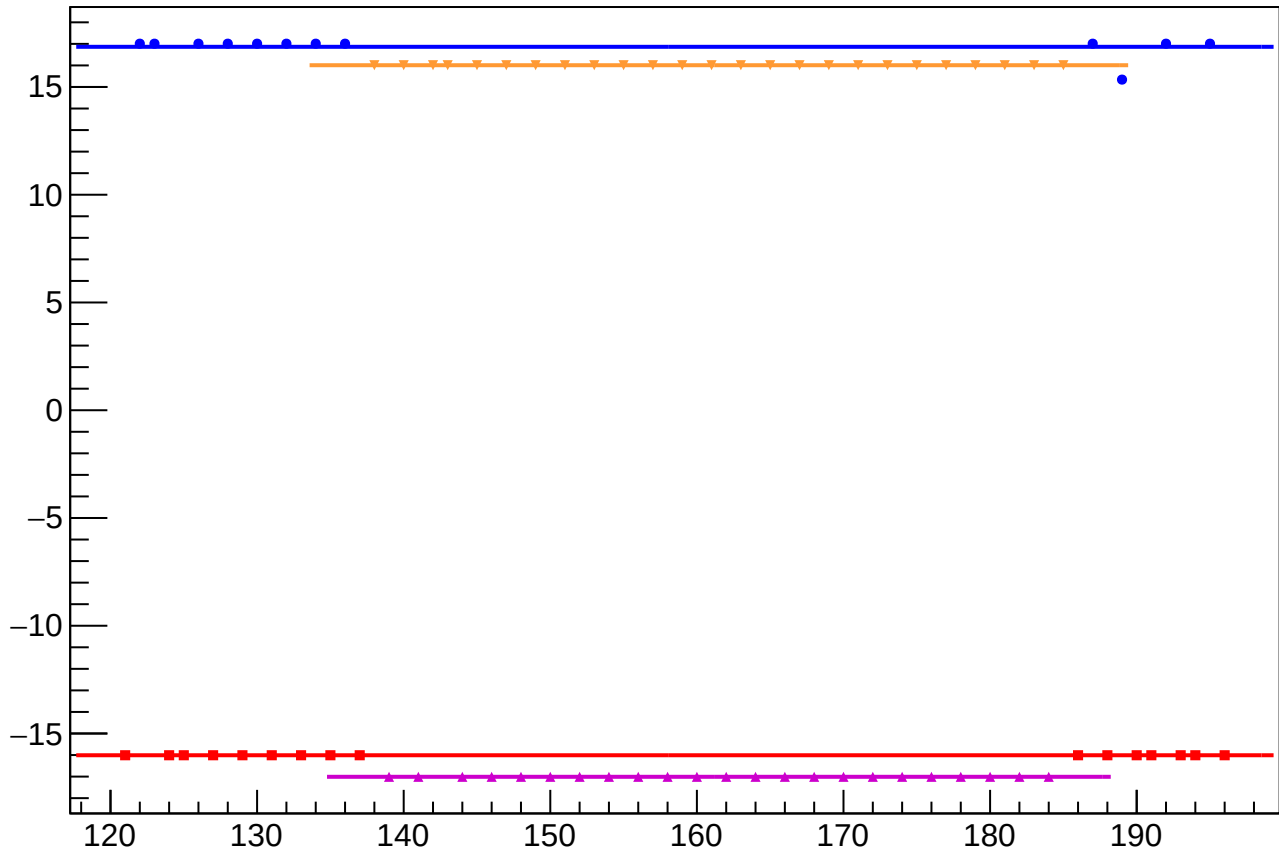
χ^2/NDF : 4439581597429

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



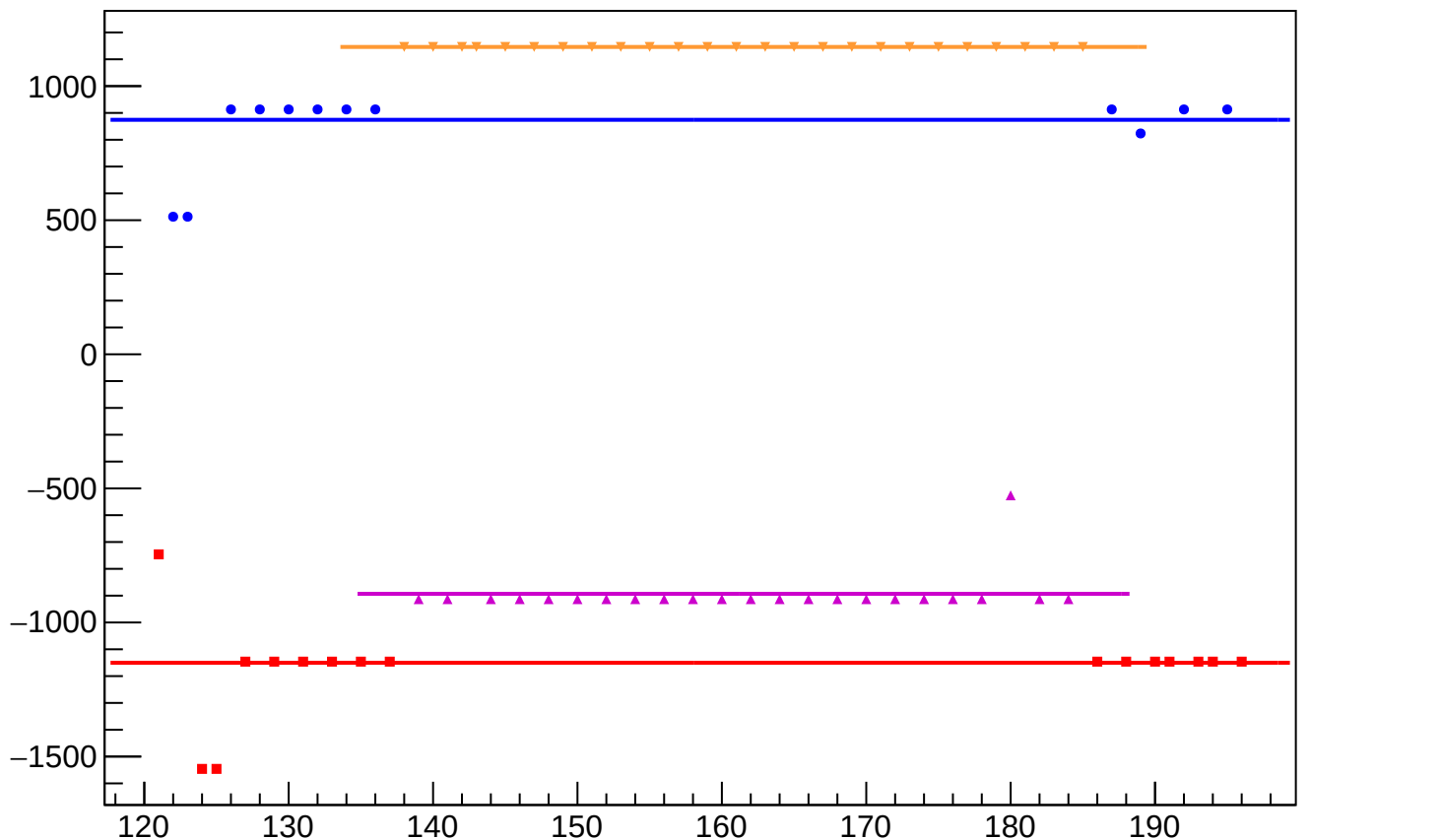
Right In: 15.866 $\pm$ 0.000 χ^2 /NDF: 114154319137453233696957240705024.0/11
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 12432142634261846320742400.0/15
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: -0.106 $\pm$ 0.000 χ^2 /NDF: 1299794738537

IGL1I00OD16_16_mean vs Slug, Sign Corrected



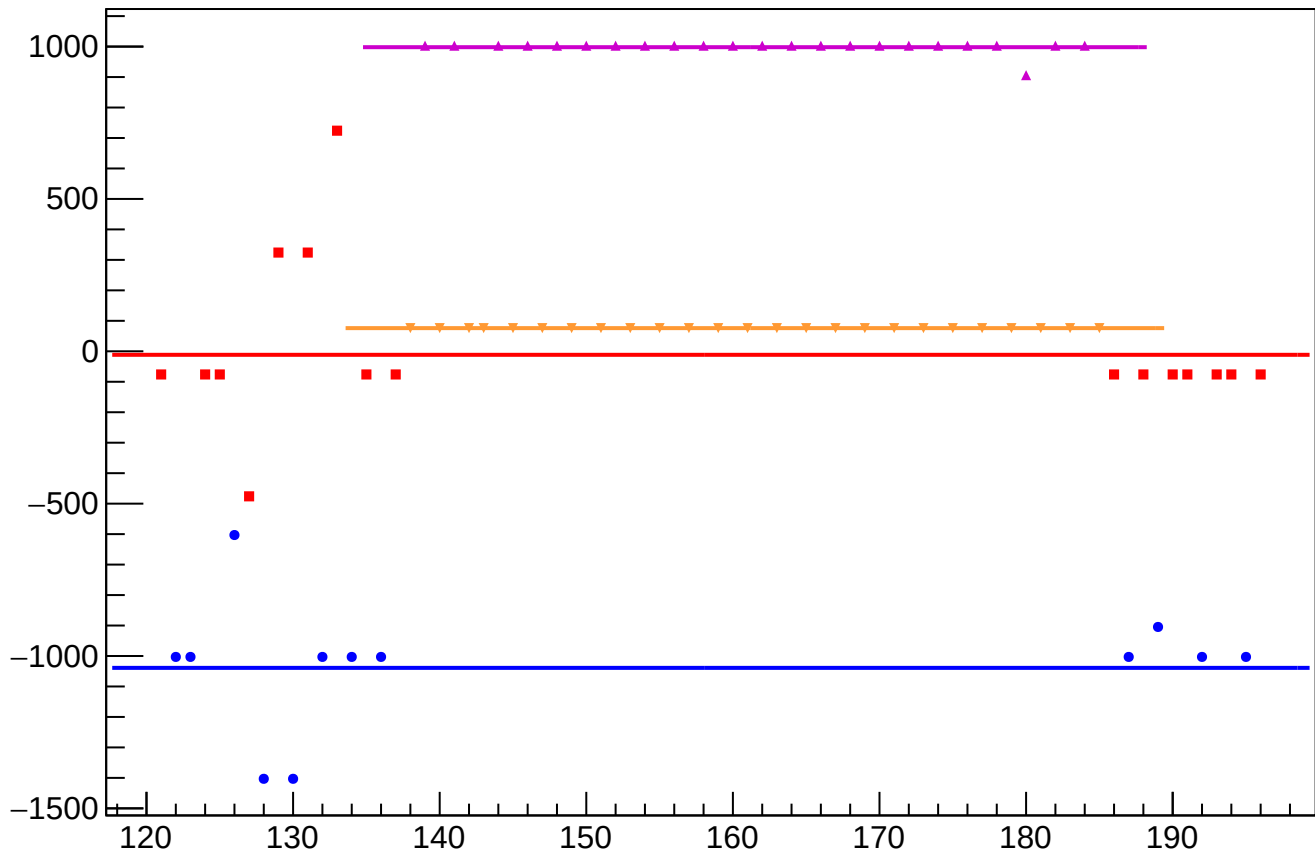
Right In: 16.864 $\pm$ 0.000 χ^2 /NDF: 129437735525535194682278010683392.0/11
 Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89740.8/24
 Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 179418.5/15
 Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22
 Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 99431233770062905
 Right: -1.693 $\pm$ 0.000 χ^2 /NDF: 3563851578692964
 In: -8.592 $\pm$ 0.000 χ^2 /NDF: 503683479223583622
 Out: 6.839 $\pm$ 0.000 χ^2 /NDF: 553795154115204924
 All: -0.424 $\pm$ 0.000 χ^2 /NDF: 1353652572282

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 874.354+/-0.000 χ^2/NDF : 6736742070619831753989073320118583296.0/11
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1150.237+/-0.000 χ^2/NDF : 13747136785110119753497484238958624768.0/15
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 41.750+/-0.000 χ^2/NDF : 5425930000859

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1038.923+/-0.000

χ^2/NDF : 22938713455365142237506792866906636288.0/11

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -11.545+/-0.000

χ^2/NDF : 43893810996326334140380669917253337088.0/15

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 264.150+/-0.000 χ^2/NDF : 215977691153