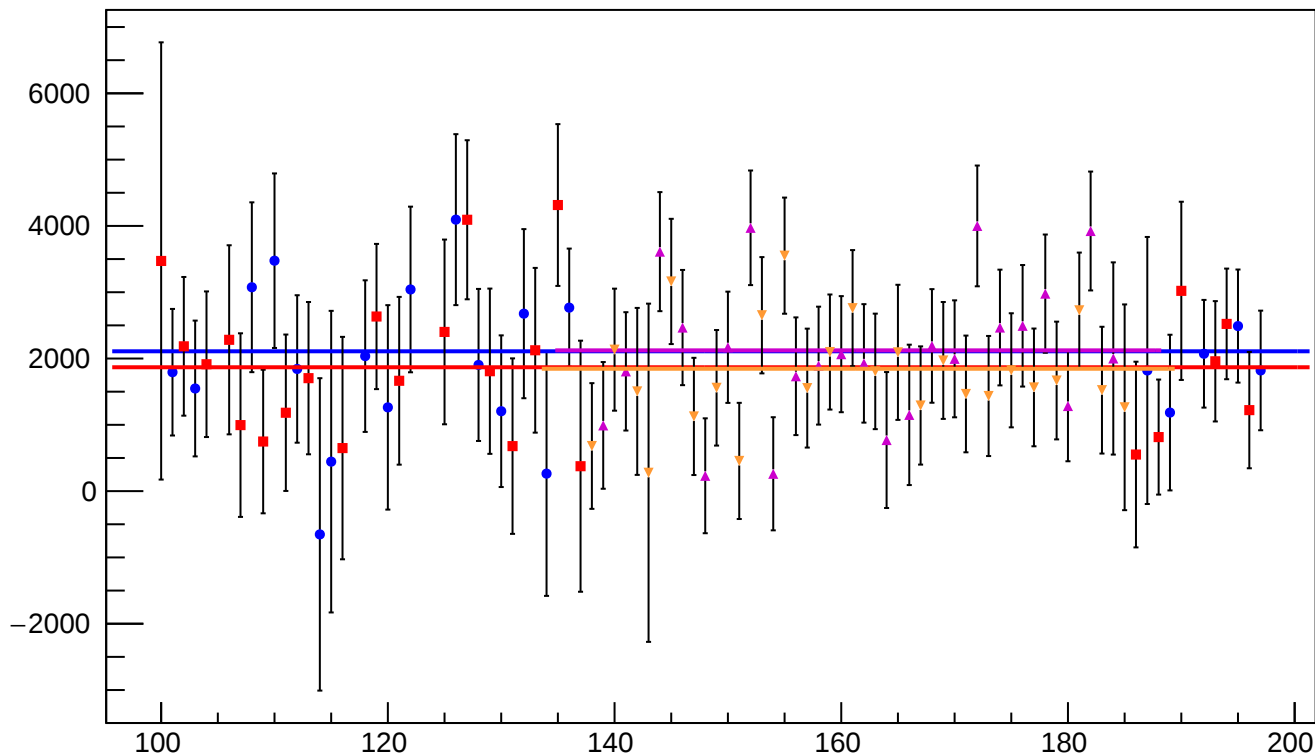


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2109.111+/-252.915

Left Out: 1845.799+/-186.902

Right Out: 1868.248+/-240.028

Left In: 2123.138+/-188.684

χ^2/NDF : 10.6/20

χ^2/NDF : 15.5/24

χ^2/NDF : 16.6/23

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1982.387+/-174.103

In: 2118.123+/-151.234

Out: 1854.273+/-147.468

All: 1982.871+/-105.582

χ^2/NDF : 48.6/47

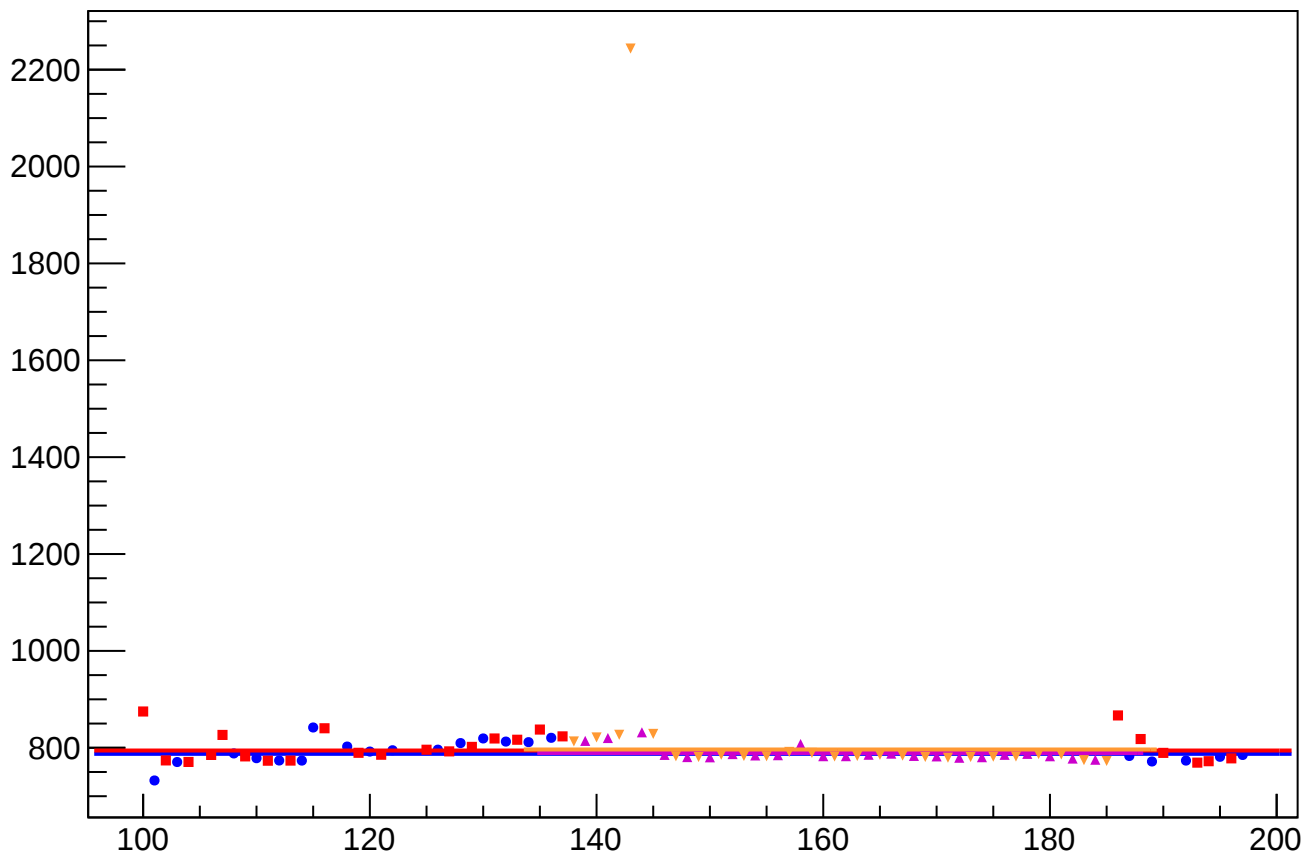
χ^2/NDF : 27.7/44

χ^2/NDF : 42.6/43

χ^2/NDF : 32.1/48

χ^2/NDF : 76.3/92

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 787.471+/-0.179 χ^2/NDF : 16574.6/20

Left Out: 796.441+/-0.132 χ^2/NDF : 658708.8/24

Right Out: 794.340+/-0.170 χ^2/NDF : 22100.5/23

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

Left: 792.847+/-0.094 χ^2/NDF : 671545.0/47

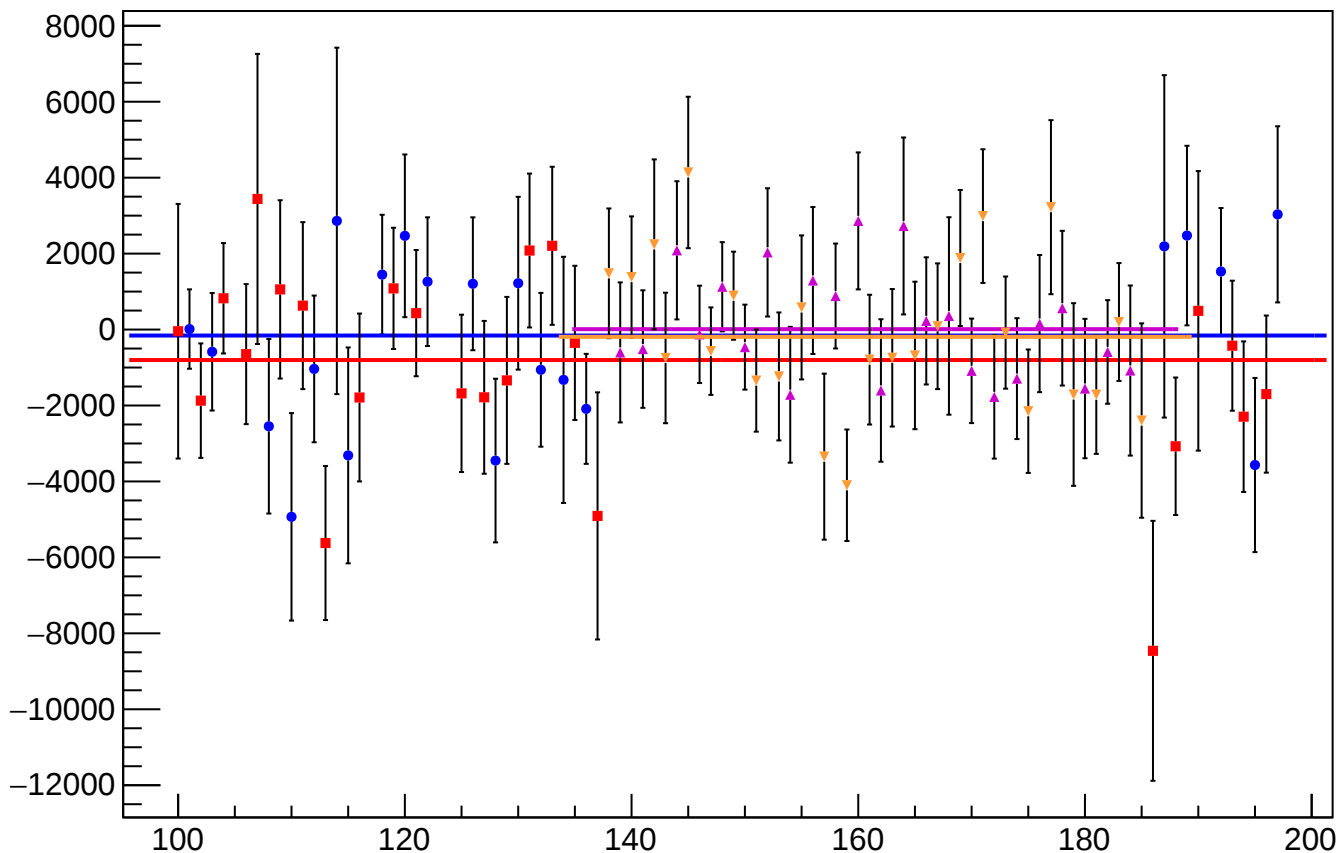
Right: 791.085+/-0.123 χ^2/NDF : 39451.5/44

In: 788.572+/-0.107 χ^2/NDF : 27976.9/43

Out: 795.648+/-0.104 χ^2/NDF : 680904.6/48

All: 792.199+/-0.075 χ^2/NDF : 711126.0/92

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -157.502 $\pm$ 423.431 χ^2 /NDF: 21.4/20

Left Out: -191.027 $\pm$ 333.904 χ^2 /NDF:30.1/24

Right Out: -802.755 $\pm$ 417.128 χ^2 /NDF: 25.6/23

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

Left: -91.637 $\pm$ 237.475 χ^2 /NDF: 44.5/47

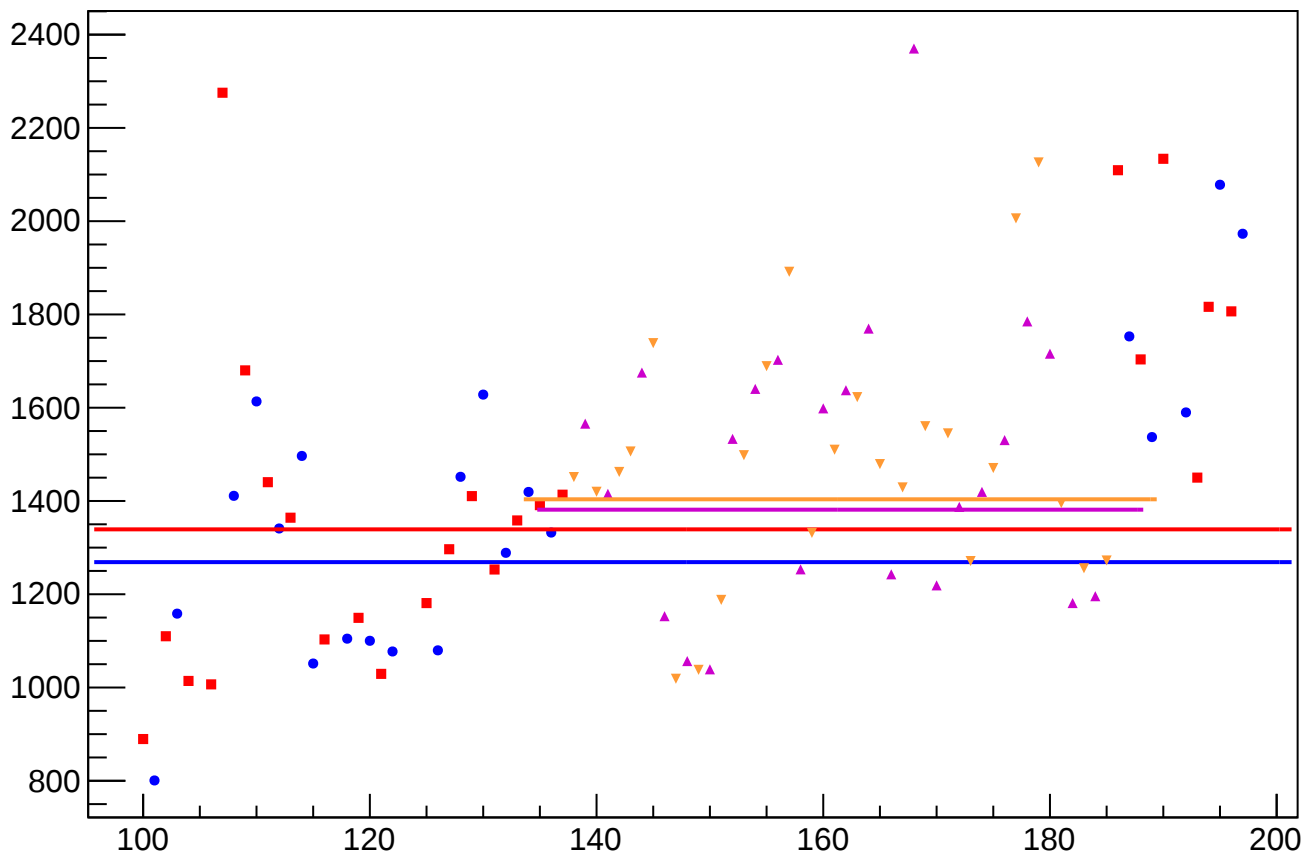
Right: -484.967 $\pm$ 297.158 χ^2 /NDF: 48.2/44

In: -55.090 $\pm$ 264.069 χ^2 /NDF:35.7/43

Out: -429.926 $\pm$ 260.674 χ^2 /NDF:57.1/48

All: -244.933 $\pm$ 185.513 χ^2 /NDF: 93.8/92

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1268.888 $\pm$ 0.299 χ^2 /NDF: 1181850.7/20

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

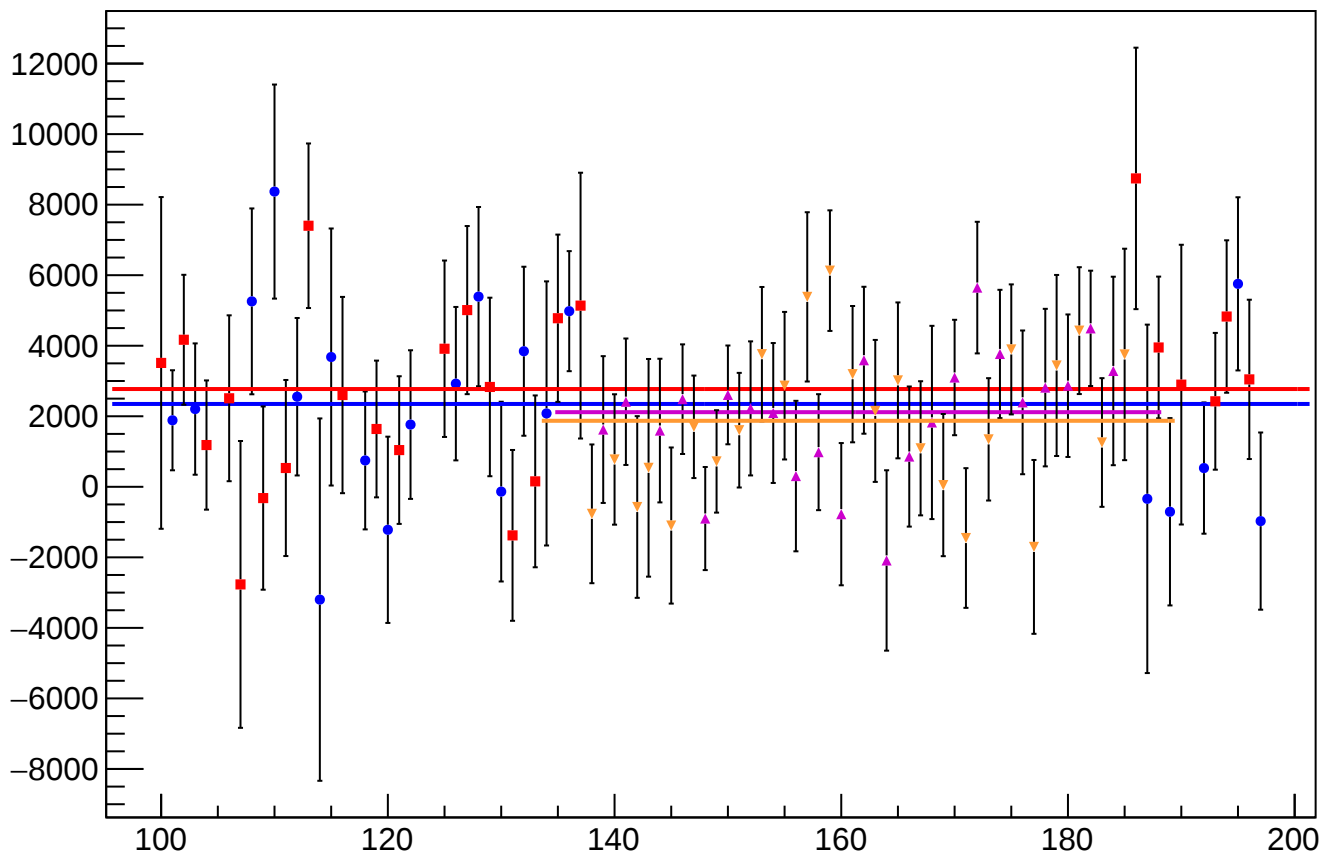
Right: 1304.545 $\pm$ 0.210 χ^2 /NDF: 2267057.1/44

In: 1337.616 $\pm$ 0.187 χ^2 /NDF: 2544564.0/43

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

All: 1358.290 $\pm$ 0.131 χ^2 /NDF: 4781662.4/92

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2348.958 $\pm$ 507.089 χ^2 /NDF: 20.6/20

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

Right Out: 2772.332 $\pm$ 491.798 χ^2 /NDF: 20.6/23

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

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

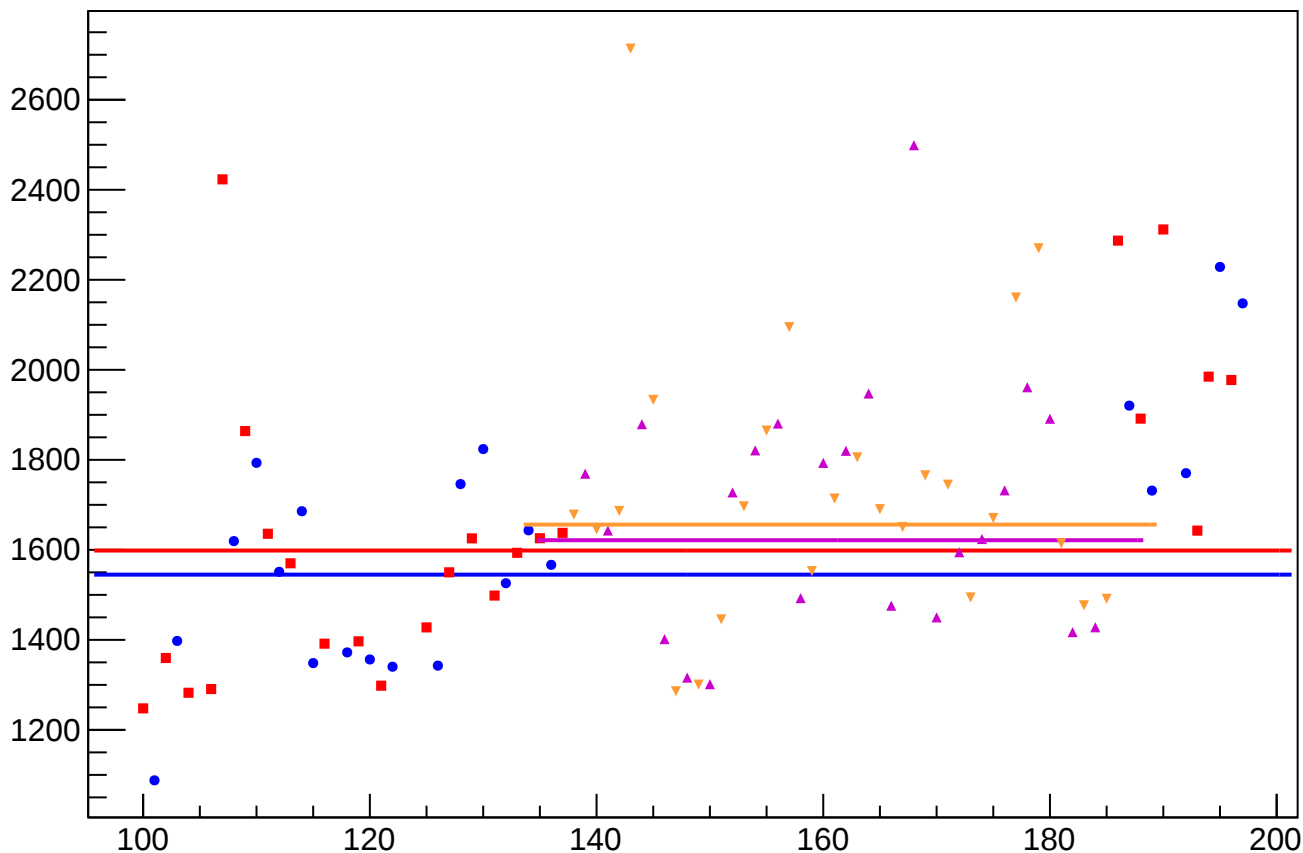
Right: 2567.124 $\pm$ 353.036 χ^2 /NDF: 41.6/44

In: 2203.488 $\pm$ 310.630 χ^2 /NDF:39.6/43

Out: 2221.214 $\pm$ 306.386 χ^2 /NDF:48.8/48

All: 2212.473 $\pm$ 218.132 χ^2 /NDF: 88.3/92

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1544.934 $\pm$ 0.359 χ^2/NDF : 663821.1/20

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

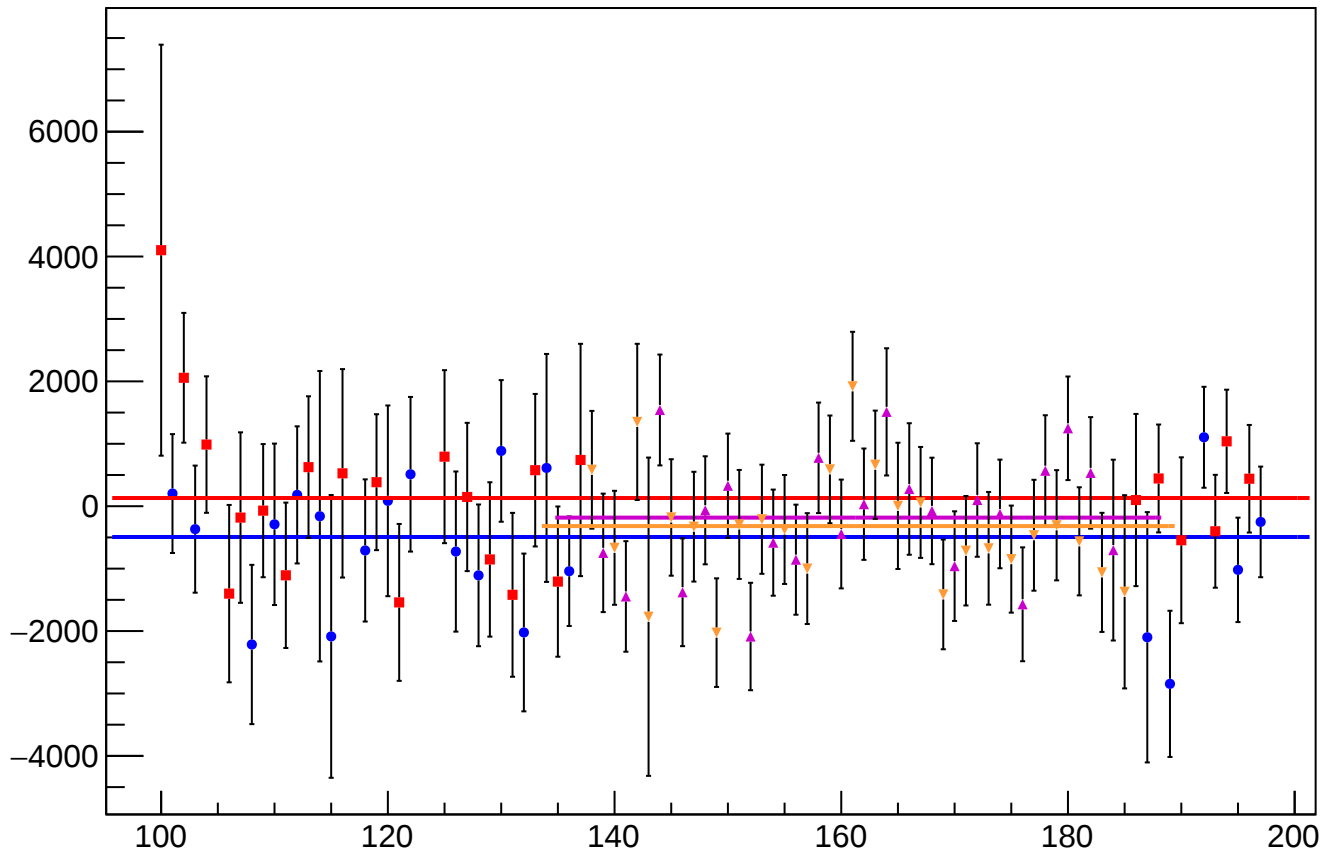
Right: 1572.527 $\pm$ 0.250 χ^2/NDF : 1303359.8/44

In: 1592.717 $\pm$ 0.220 χ^2/NDF : 1467555.8/43

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

All: 1613.515 $\pm$ 0.154 χ^2/NDF : 3040673.5/92

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -493.300 $\pm$ 250.502 χ^2/NDF : 17.2/20

Left Out: -318.336 $\pm$ 186.041 χ^2/NDF : 20.4/24

Right Out: 131.295 $\pm$ 237.769 χ^2/NDF : 15.8/23

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

Left: -251.259 $\pm$ 132.174 χ^2/NDF : 46.8/47

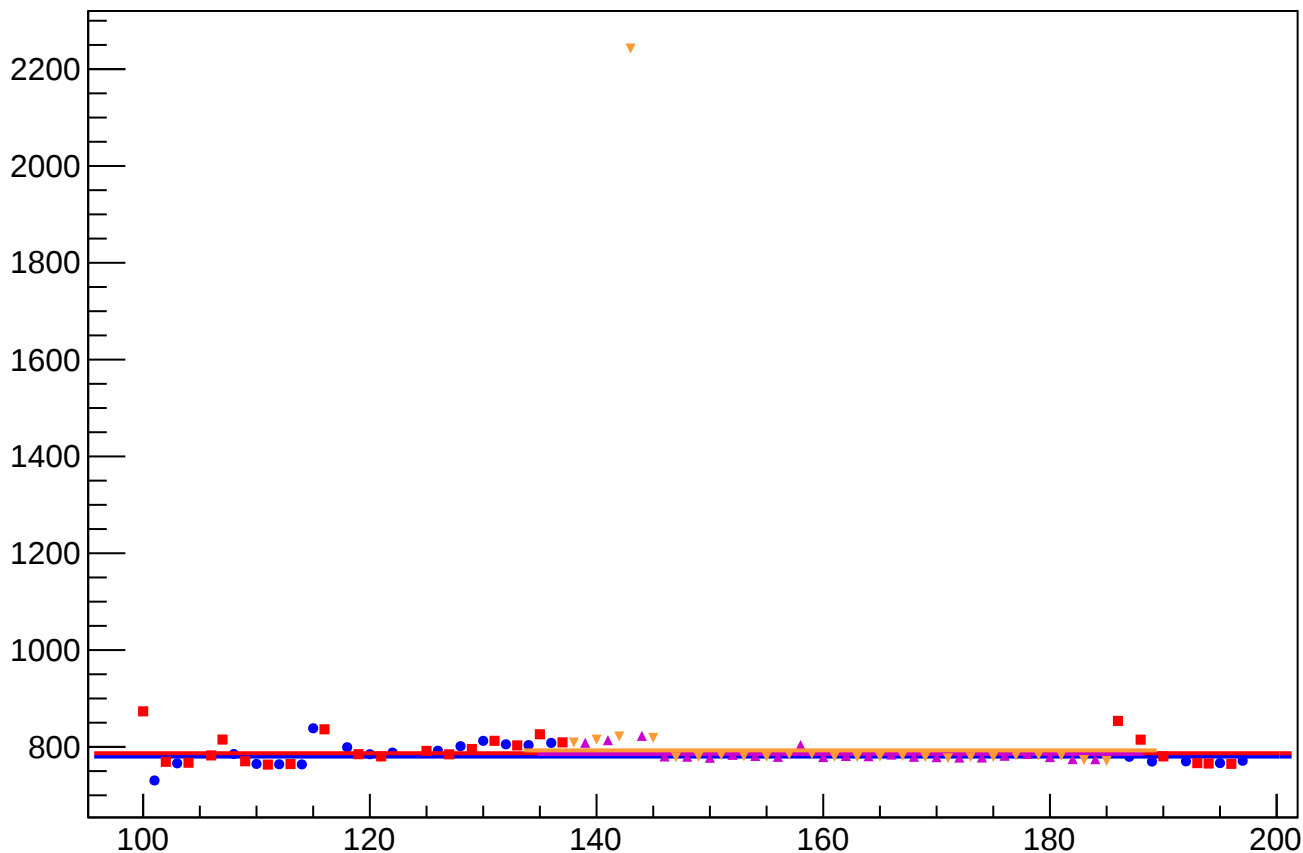
Right: -164.726 $\pm$ 172.454 χ^2/NDF : 36.2/44

In: -294.596 $\pm$ 150.271 χ^2/NDF : 44.3/43

Out: -147.595 $\pm$ 146.520 χ^2/NDF : 38.3/48

All: -219.238 $\pm$ 104.906 χ^2/NDF : 83.1/92

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 779.999 $\pm$ 0.177 χ^2 /NDF: 15488.4/20

Left Out: 792.791 $\pm$ 0.132 χ^2 /NDF: 659510.7/24

Right Out: 786.916 $\pm$ 0.168 χ^2 /NDF: 21482.1/23

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

Left: 789.226 $\pm$ 0.093 χ^2 /NDF: 670367.6/47

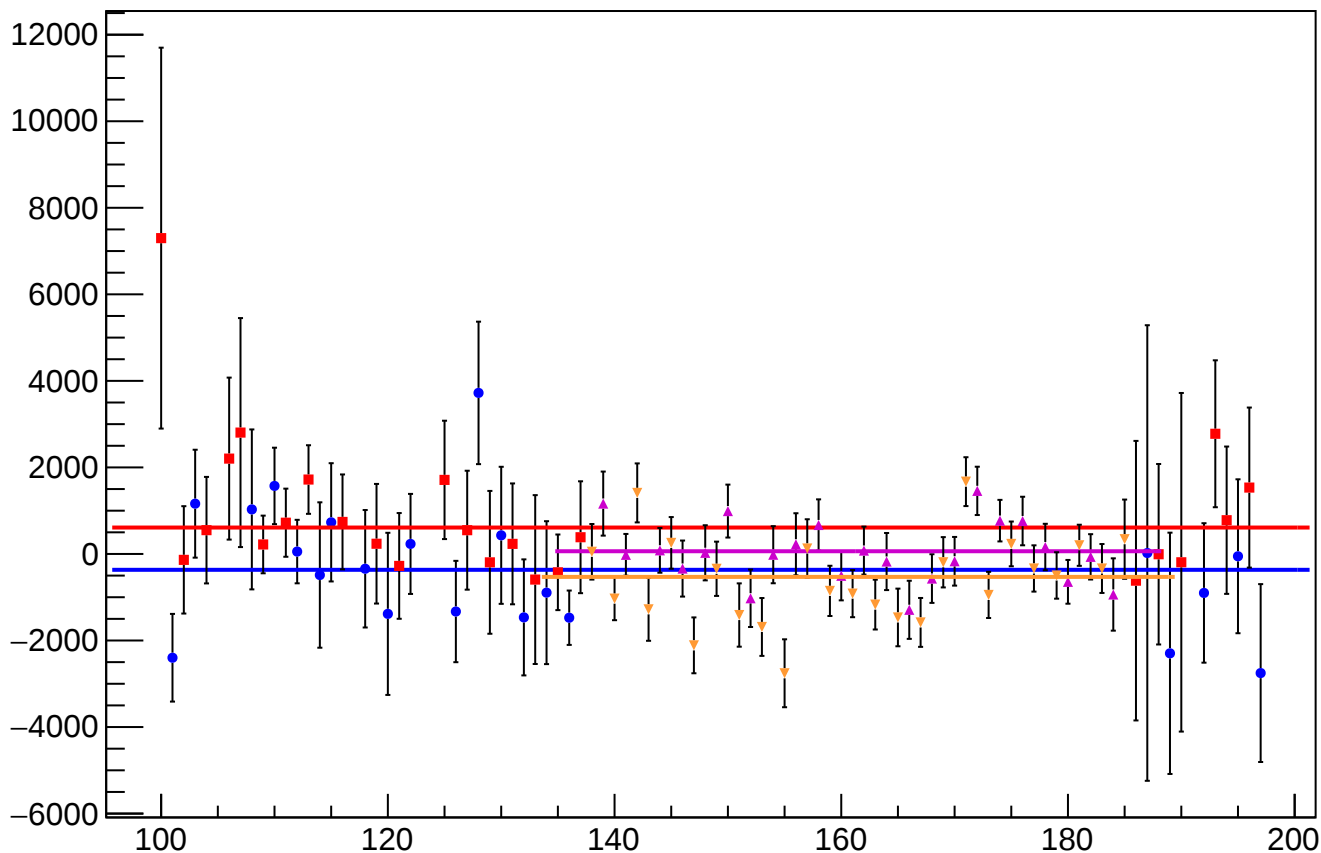
Right: 783.638 $\pm$ 0.122 χ^2 /NDF: 37772.7/44

In: 783.579 $\pm$ 0.106 χ^2 /NDF: 25500.4/43

Out: 790.560 $\pm$ 0.104 χ^2 /NDF: 681750.3/48

All: 787.158 $\pm$ 0.074 χ^2 /NDF: 709463.3/92

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -366.418 ± 271.443 χ^2/NDF : 25.4/20

Left Out: -530.101 ± 119.543 χ^2/NDF : 61.6/24

Right Out: 610.590 ± 260.276 χ^2/NDF : 12.0/23

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

Left: -239.807 ± 85.401 χ^2/NDF : 102.5/47

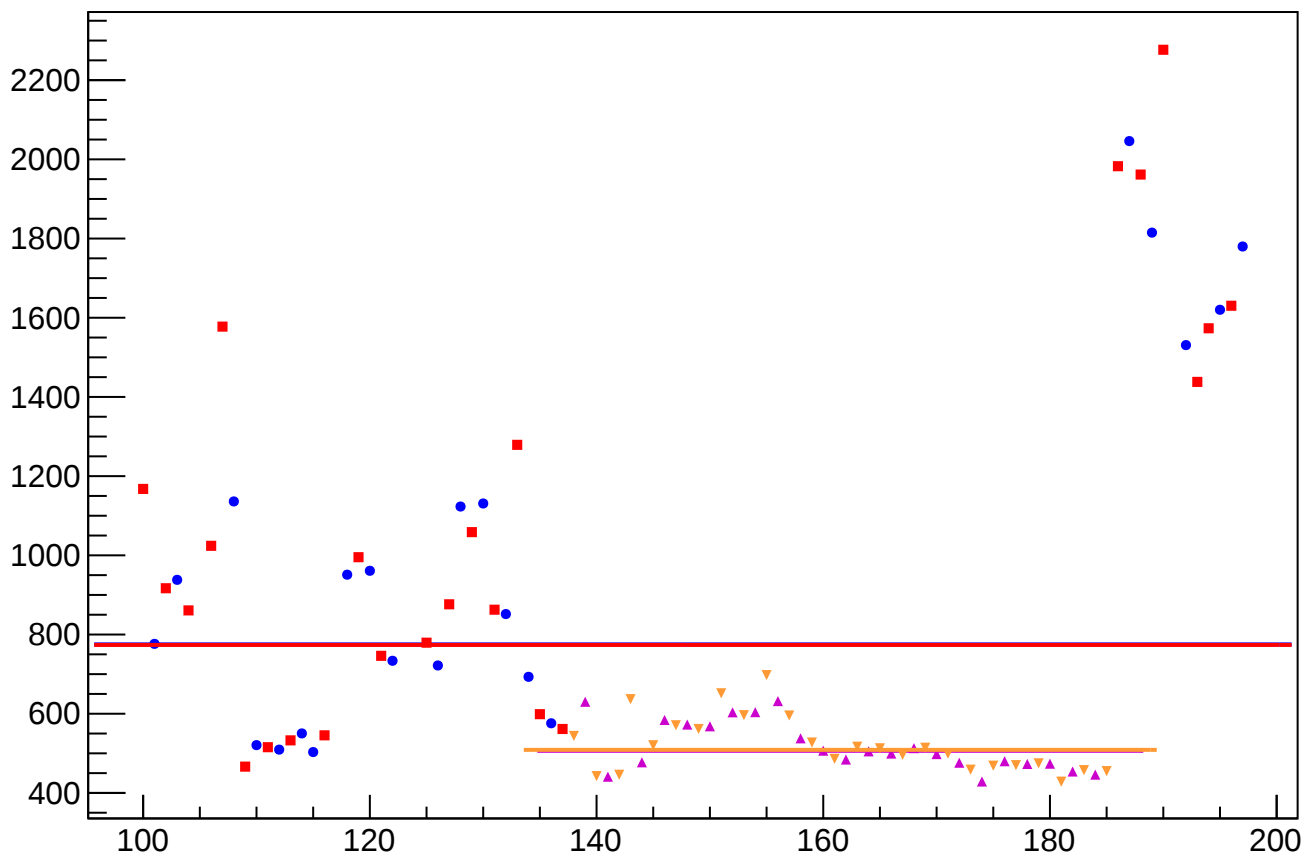
Right: 142.595 ± 187.867 χ^2/NDF : 44.1/44

In: -9.405 ± 111.312 χ^2/NDF : 56.3/43

Out: -331.391 ± 108.633 χ^2/NDF : 89.4/48

All: -174.319 ± 77.745 χ^2/NDF : 150.0/92

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 775.049+/-0.192 χ^2/NDF : 2880957.7/20

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

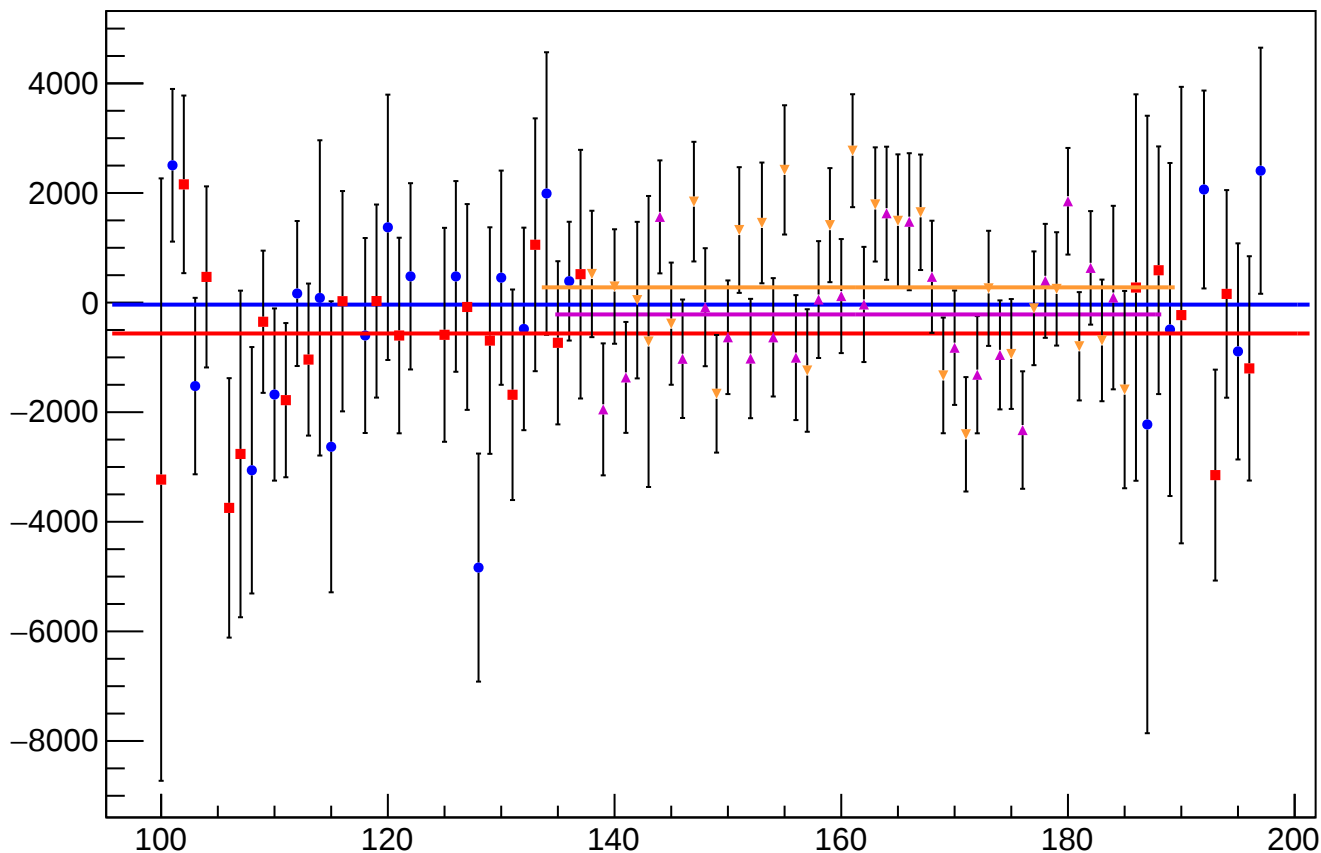
Right: 774.401+/-0.133 χ^2/NDF : 6866020.3/44

In: 551.560+/-0.079 χ^2/NDF : 4947095.5/43

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

All: 553.292+/-0.055 χ^2/NDF : 11194841.6/92

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -37.165 ± 401.926 $\chi^2/\text{NDF}: 17.8/20$

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 $\chi^2/\text{NDF}: 65.2/47$

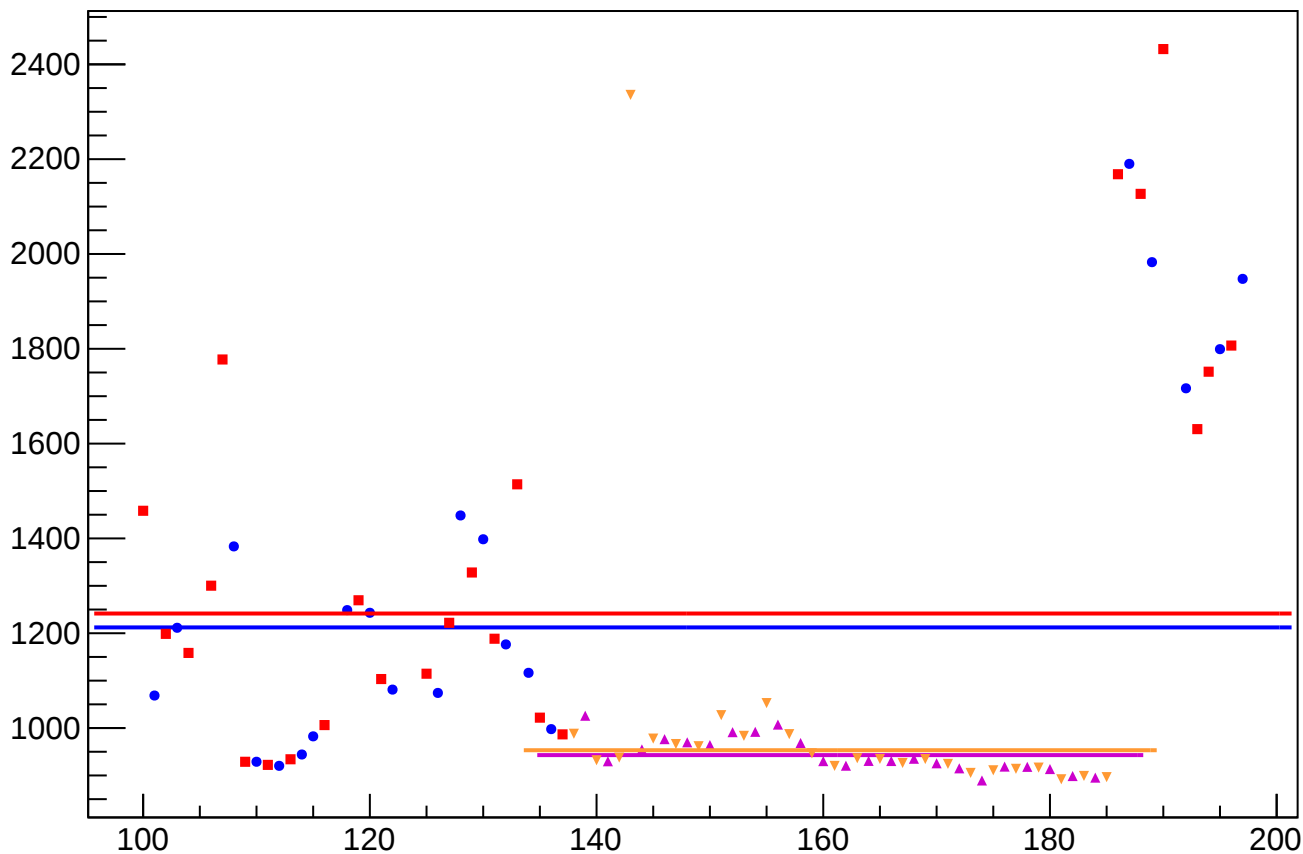
Right: -308.524 ± 279.843 $\chi^2/\text{NDF}: 29.1/44$

In: -173.247 ± 196.729 $\chi^2/\text{NDF}: 42.4/43$

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

All: -50.035 ± 138.116 $\chi^2/\text{NDF}: 95.4/92$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1212.289+/-0.284 χ^2/NDF : 1115588.7/20

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

Right Out: 1241.586+/-0.276 χ^2/NDF : 1530935.1/23

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

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

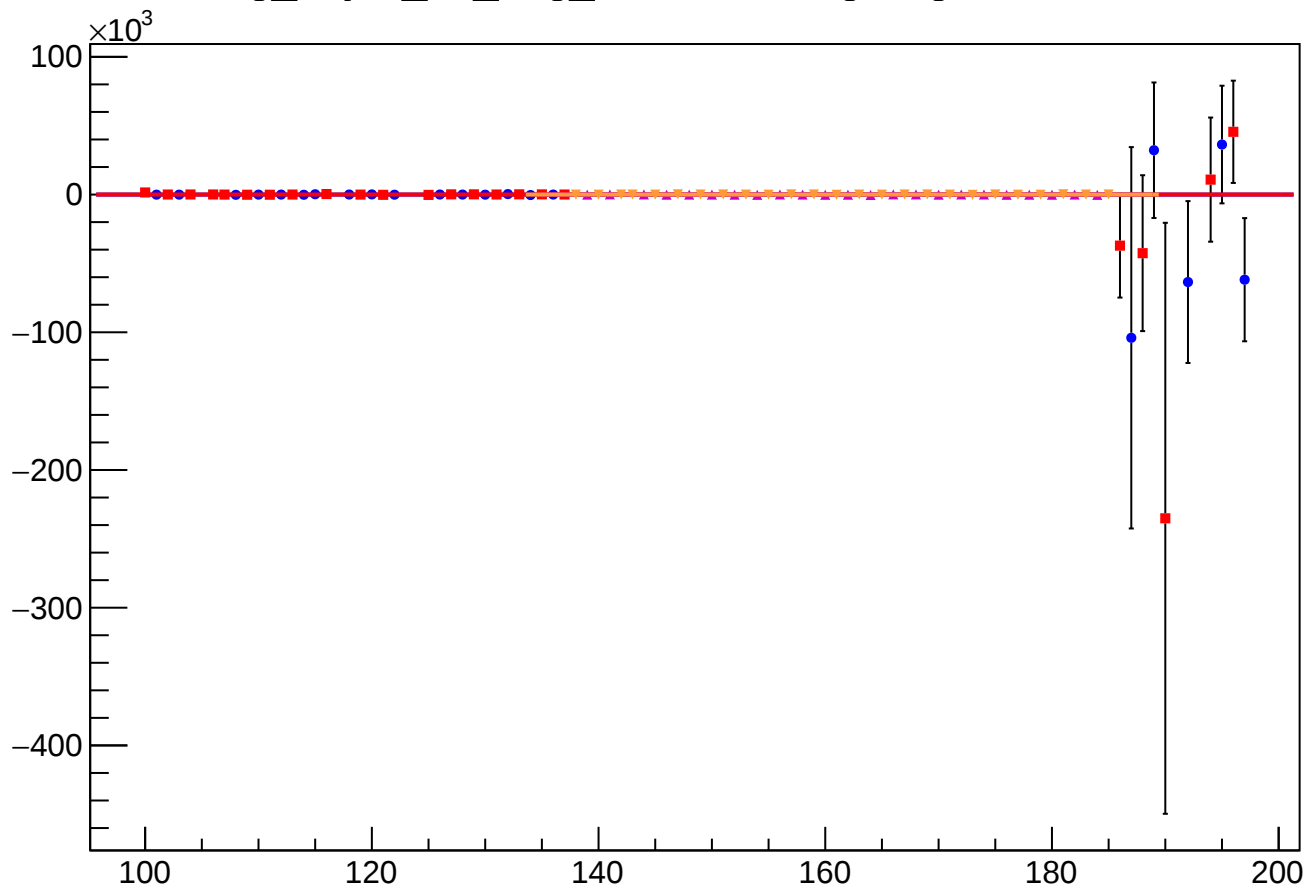
Right: 1227.384+/-0.198 χ^2/NDF : 2651998.8/44

In: 1007.459+/-0.139 χ^2/NDF : 1847066.1/43

Out: 1024.588+/-0.137 χ^2/NDF : 2960585.7/48

All: 1016.145+/-0.098 χ^2/NDF : 4815340.0/92

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.571 ± 30.032 χ^2/NDF : 20.7/20

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

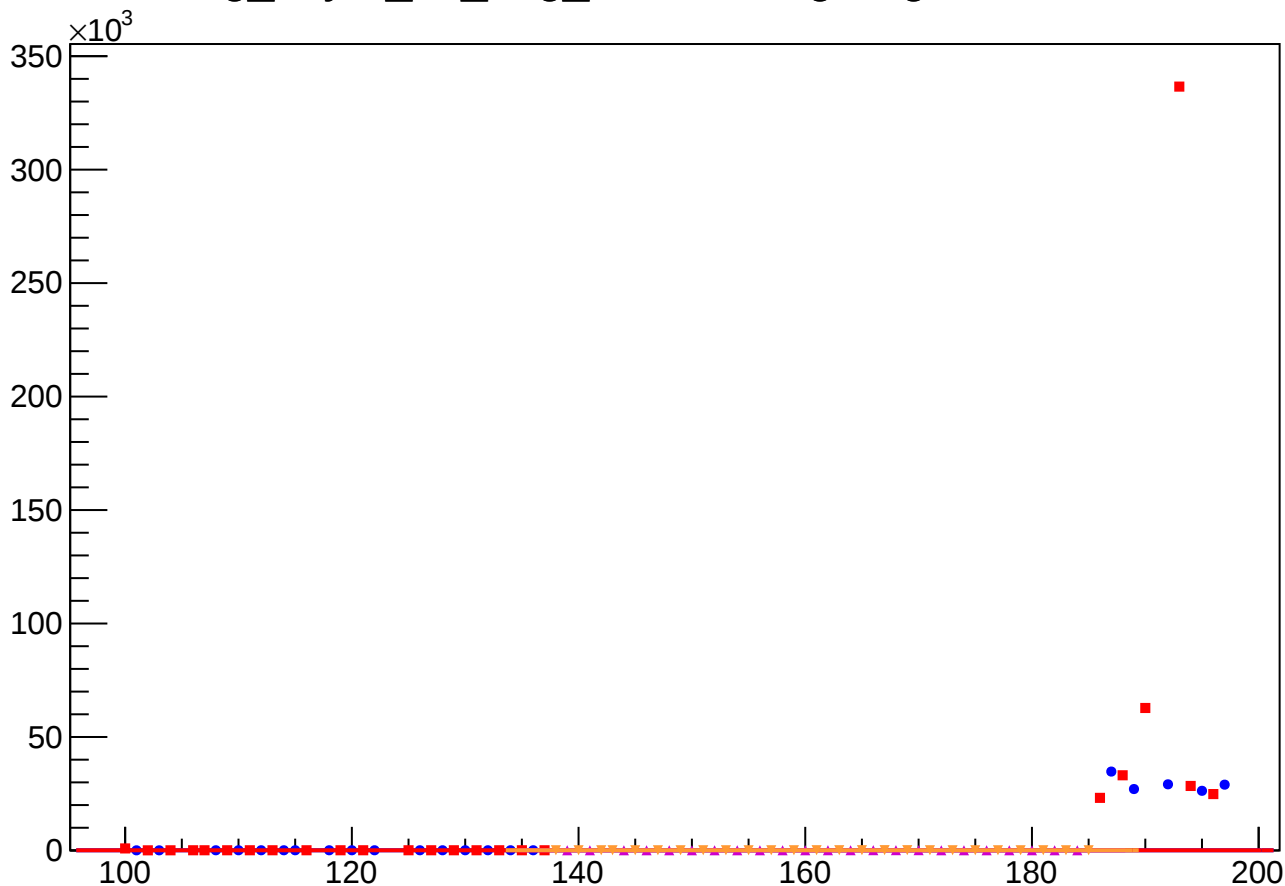
Right: 7.730 ± 21.397 χ^2/NDF : 43.1/43

In: -20.424 ± 17.527 χ^2/NDF : 43.3/43

Out: 13.282 ± 17.272 χ^2/NDF : 44.1/47

All: -3.324 ± 12.302 χ^2/NDF : 89.3/91

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.099 $\pm$ 0.021 χ^2 /NDF: 3238689.2/20

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

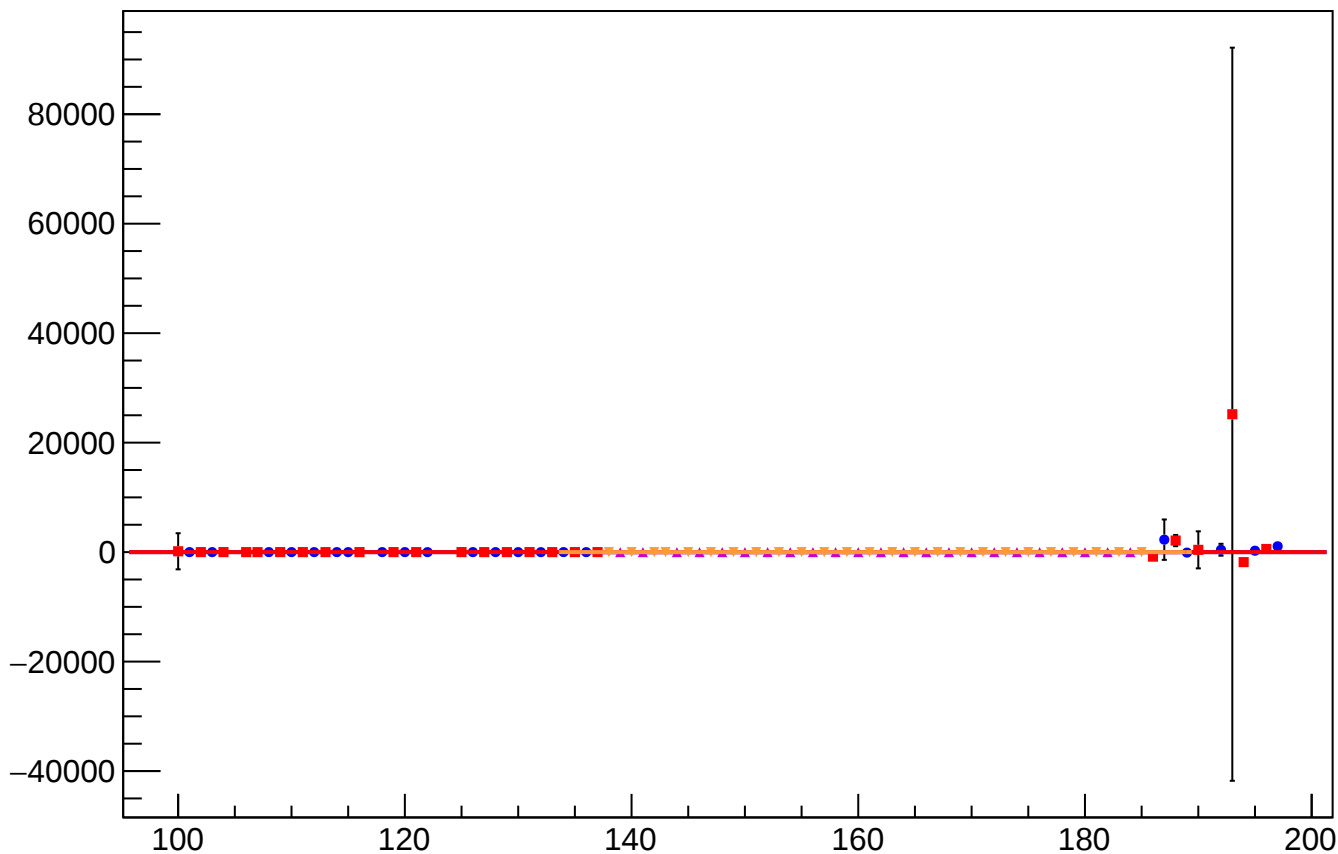
Right: 77.738 $\pm$ 0.015 χ^2 /NDF: 7003242.7/44

In: 84.999 $\pm$ 0.012 χ^2 /NDF: 4013547.1/43

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

All: 85.637 $\pm$ 0.009 χ^2 /NDF: 8389291.9/92

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 22.9/20

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

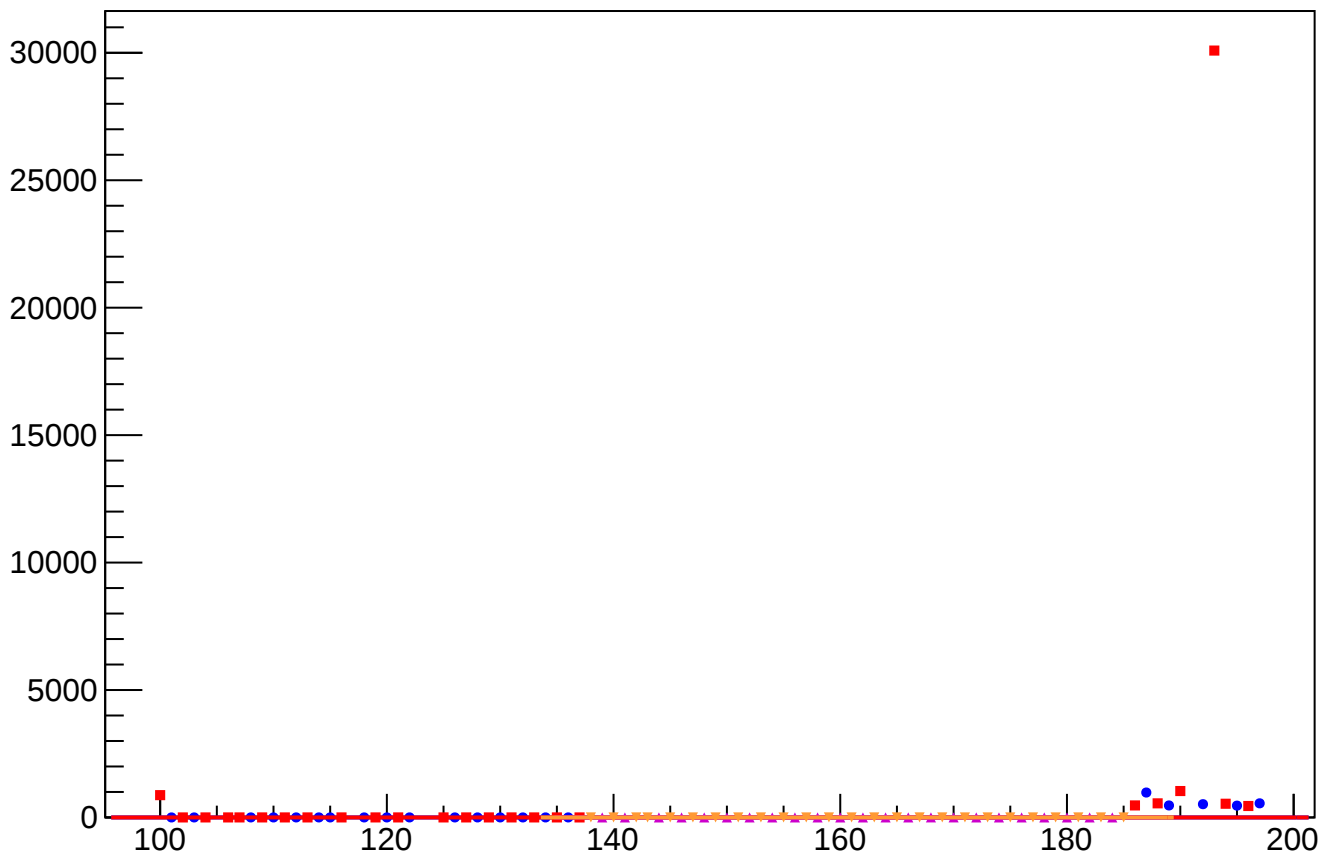
Right: -0.133 ± 0.363 χ^2/NDF : 43.4/44

In: -0.433 ± 0.306 χ^2/NDF : 49.4/43

Out: 0.103 ± 0.301 χ^2/NDF : 41.6/48

All: -0.160 ± 0.215 χ^2/NDF : 92.6/92

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 3008195.5/20

Left Out: 1.404+/-0.000 χ^2/NDF : 992478.0/24

Right Out: 1.260+/-0.000 χ^2/NDF : 3864223.9/23

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

Left: 1.427+/-0.000 χ^2/NDF : 2005229.5/47

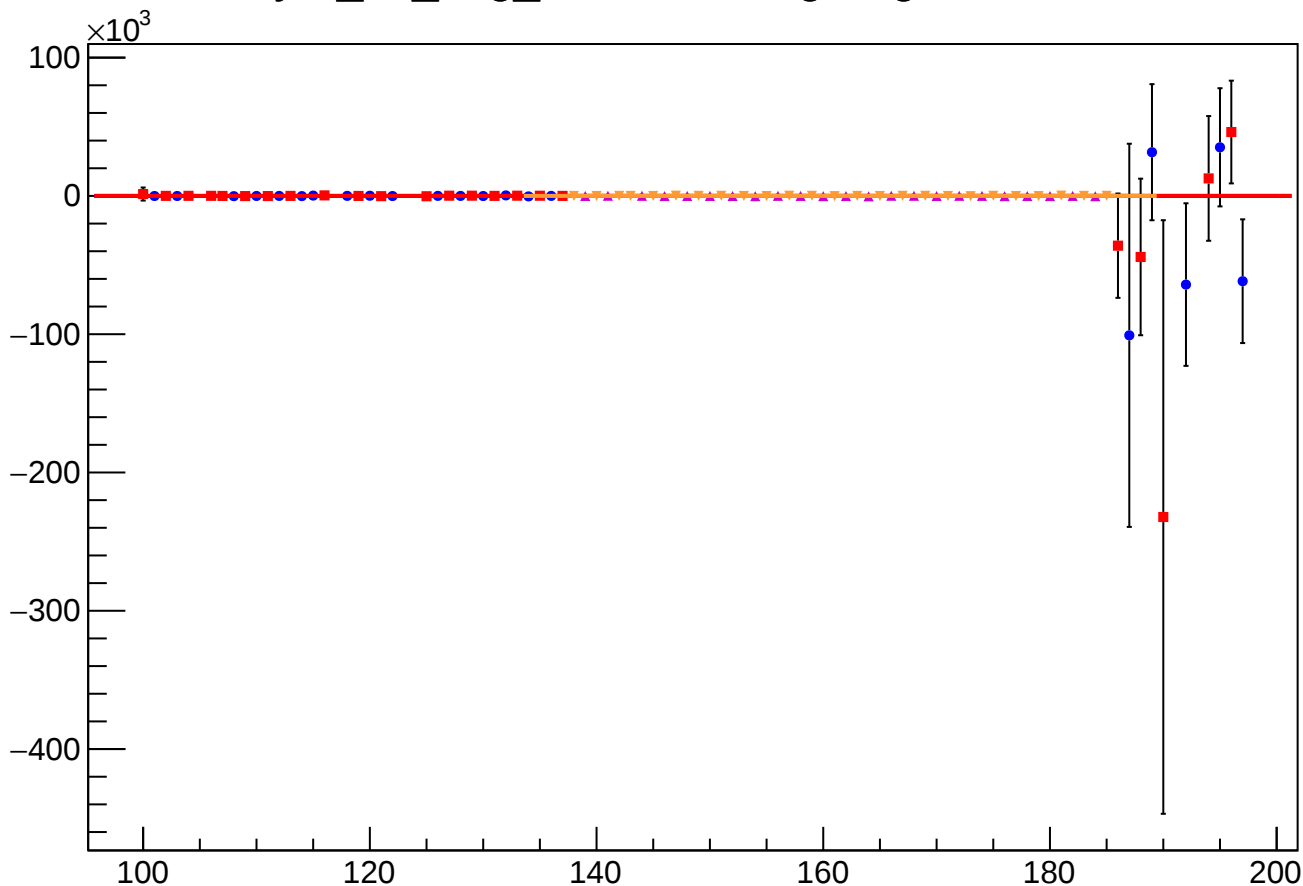
Right: 1.204+/-0.000 χ^2/NDF : 6915939.4/44

In: 1.341+/-0.000 χ^2/NDF : 4453972.9/43

Out: 1.357+/-0.000 χ^2/NDF : 4958190.6/48

All: 1.349+/-0.000 χ^2/NDF : 9414818.3/92

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.507 ± 30.040 χ^2/NDF : 20.9/20

Left Out: 4.417 ± 20.966 χ^2/NDF : 22.1/24

Right Out: 32.029 ± 30.500 χ^2/NDF : 21.1/22

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

Left: -8.619 ± 15.041 χ^2/NDF : 45.3/47

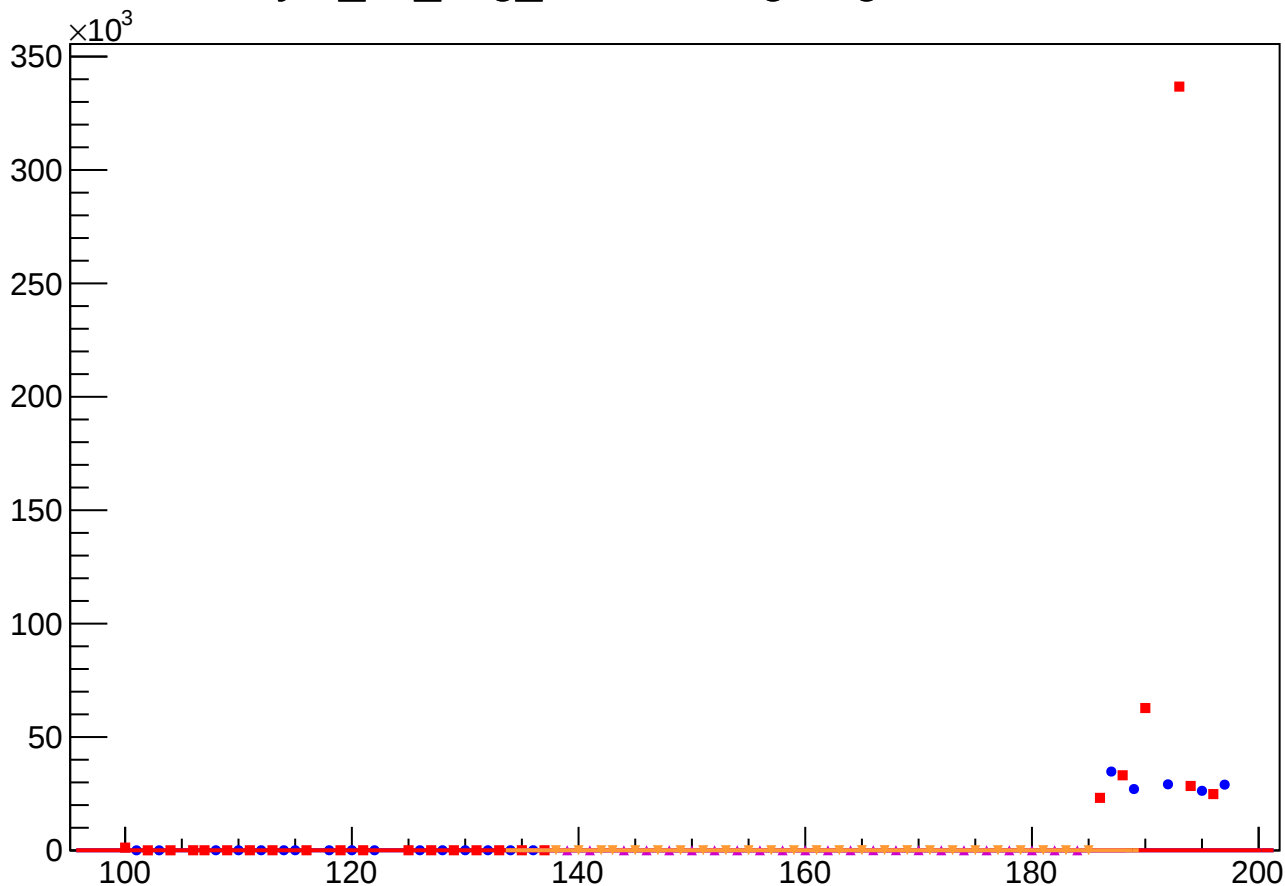
Right: 8.407 ± 21.402 χ^2/NDF : 43.2/43

In: -19.742 ± 17.532 χ^2/NDF : 43.3/43

Out: 13.278 ± 17.277 χ^2/NDF : 43.8/47

All: -2.990 ± 12.306 χ^2/NDF : 88.9/91

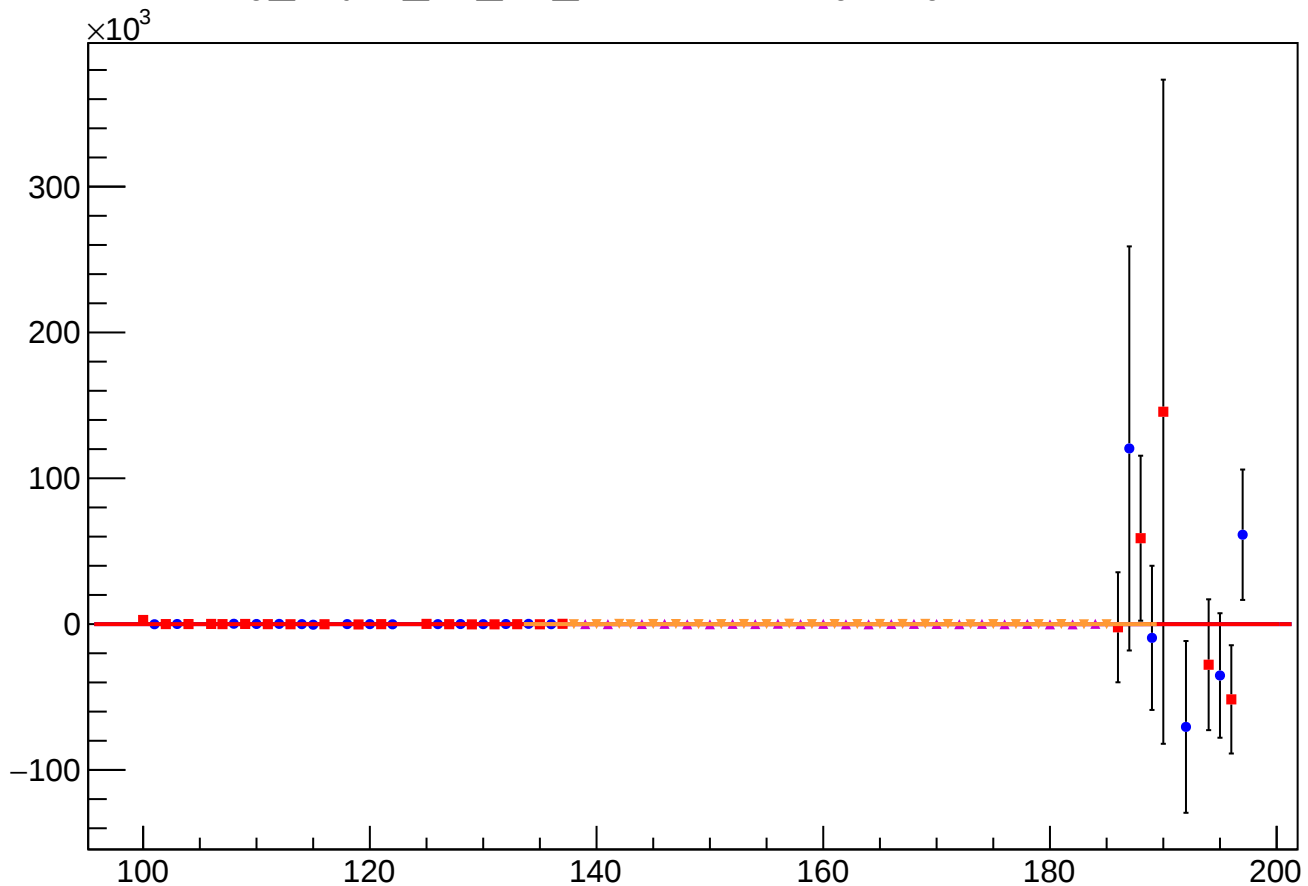
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.119 $\pm$ 0.021 χ^2 /NDF: 3238744.1/20
 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: 77.749 $\pm$ 0.015 χ^2 /NDF: 7009734.0/44
 In: 85.022 $\pm$ 0.012 χ^2 /NDF: 4014605.1/43
 Out: 86.275 $\pm$ 0.012 χ^2 /NDF: 4378423.7/48
 All: 85.658 $\pm$ 0.009 χ^2 /NDF: 8398210.6/92

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.107 ± 30.012 $\chi^2/\text{NDF}: 18.8/20$

Left Out: 9.877 ± 20.965 $\chi^2/\text{NDF}: 18.5/24$

Right Out: -25.803 ± 30.473 $\chi^2/\text{NDF}: 16.6/22$

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

Left: 26.155 ± 15.042 $\chi^2/\text{NDF}: 51.2/47$

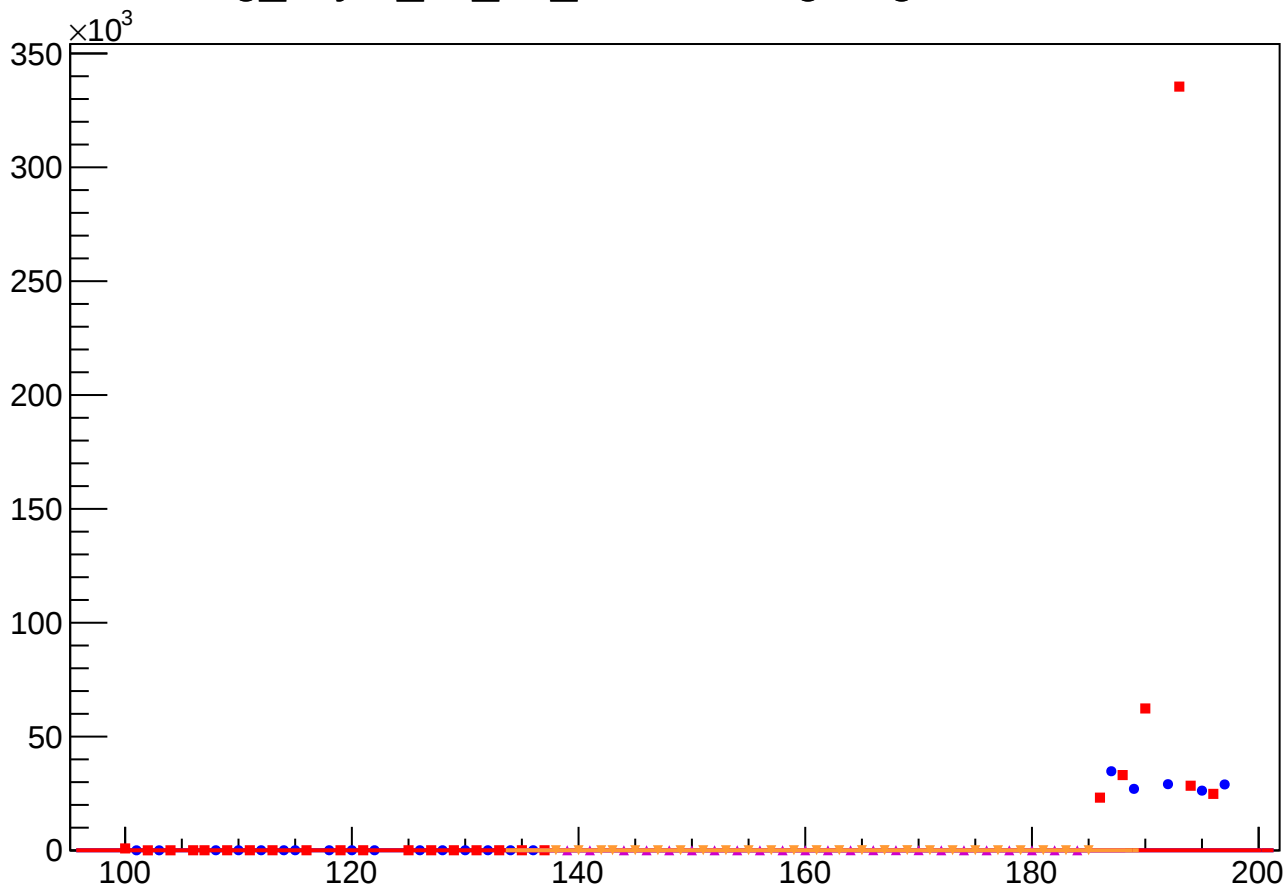
Right: -8.590 ± 21.383 $\chi^2/\text{NDF}: 36.0/43$

In: 31.378 ± 17.528 $\chi^2/\text{NDF}: 51.2/43$

Out: -1.585 ± 17.272 $\chi^2/\text{NDF}: 36.1/47$

All: 14.654 ± 12.303 $\chi^2/\text{NDF}: 89.0/91$

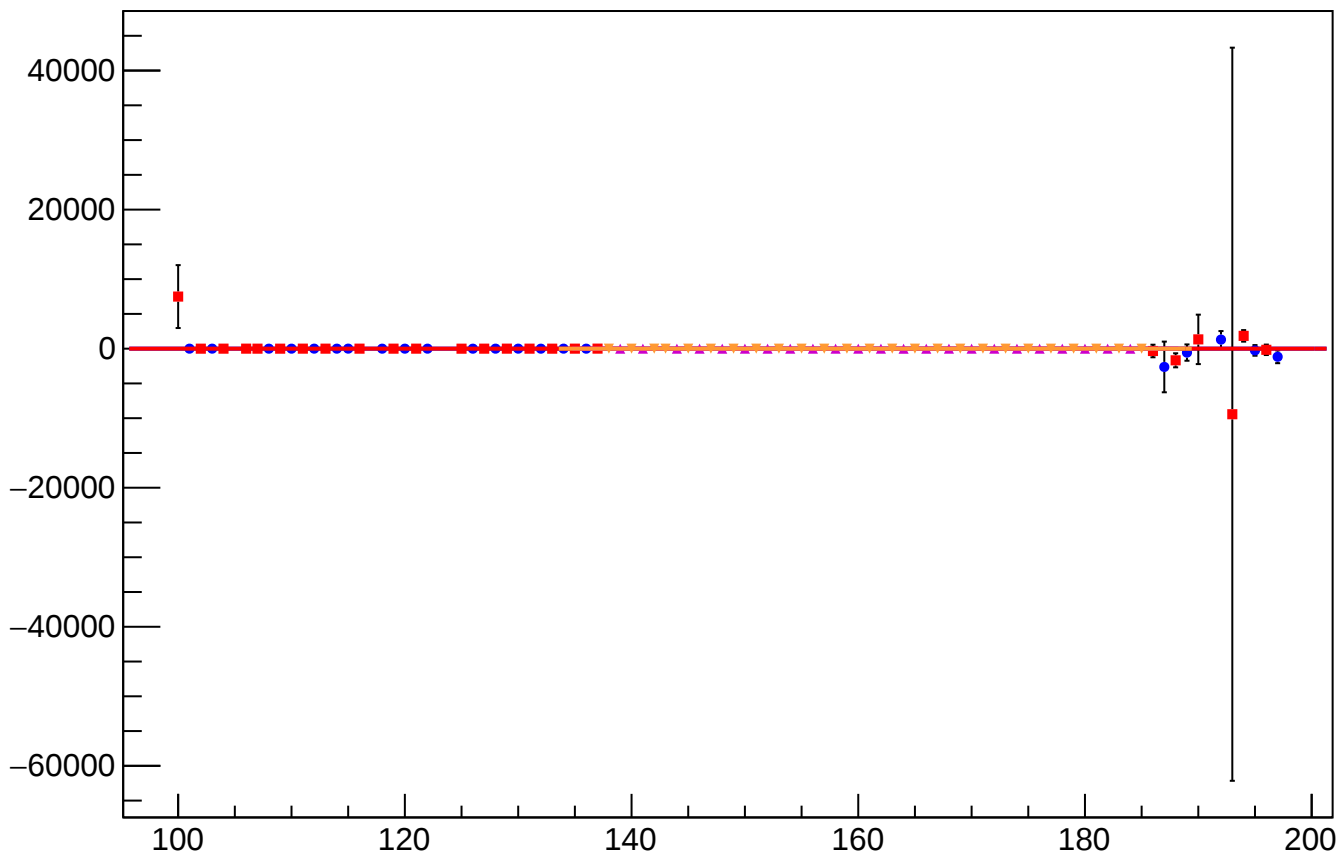
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.050 $\pm$ 0.021 χ^2 /NDF: 3237834.8/20
 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: 77.689 $\pm$ 0.015 χ^2 /NDF: 7001917.7/44
 In: 84.996 $\pm$ 0.012 χ^2 /NDF: 4018609.9/43
 Out: 86.253 $\pm$ 0.012 χ^2 /NDF: 4370926.6/48
 All: 85.634 $\pm$ 0.009 χ^2 /NDF: 8394754.8/92

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 15.5/20$

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 $\chi^2/\text{NDF}: 41.7/47$

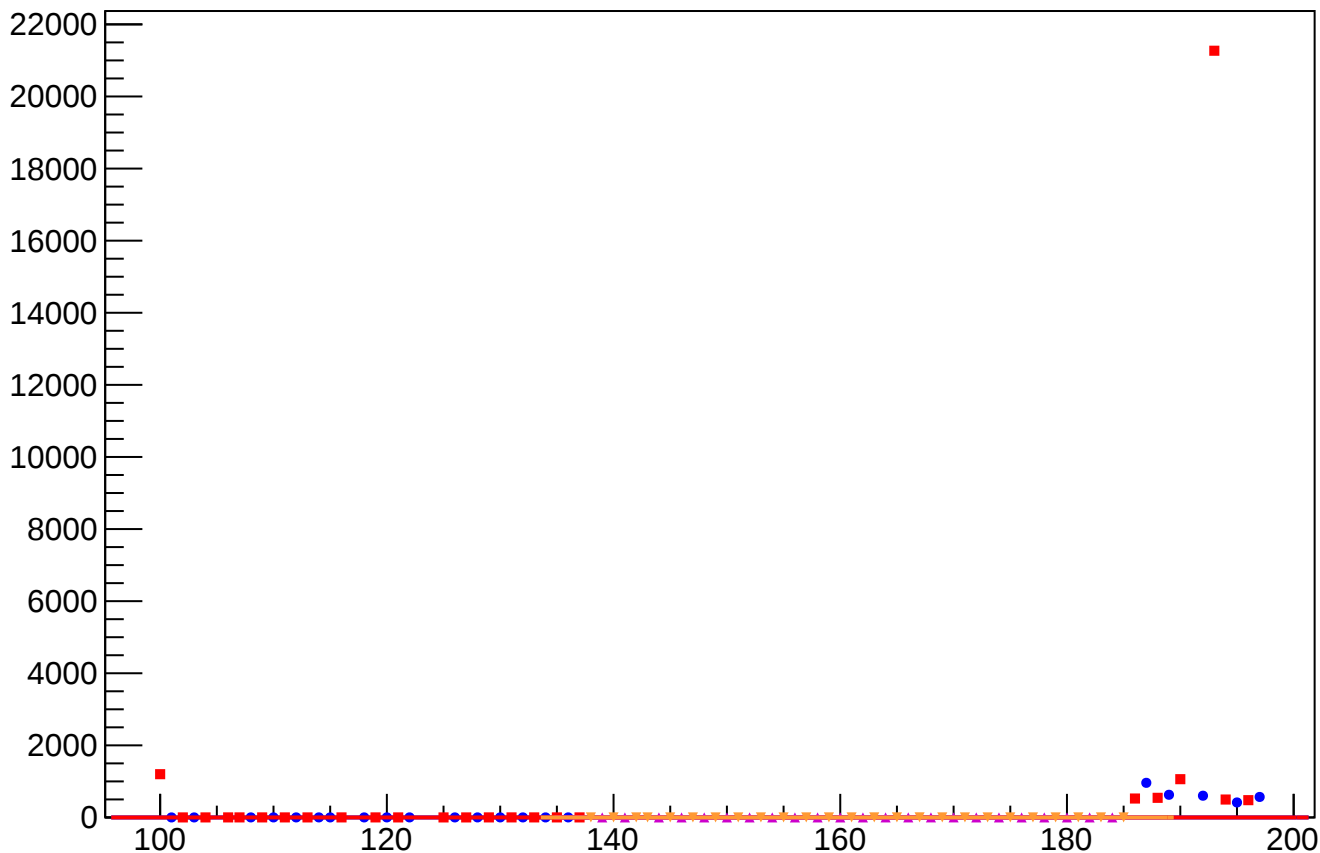
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 37.5/44$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 38.0/43$

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

All: 0.015 ± 0.222 $\chi^2/\text{NDF}: 83.1/92$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 3158675.5/20

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

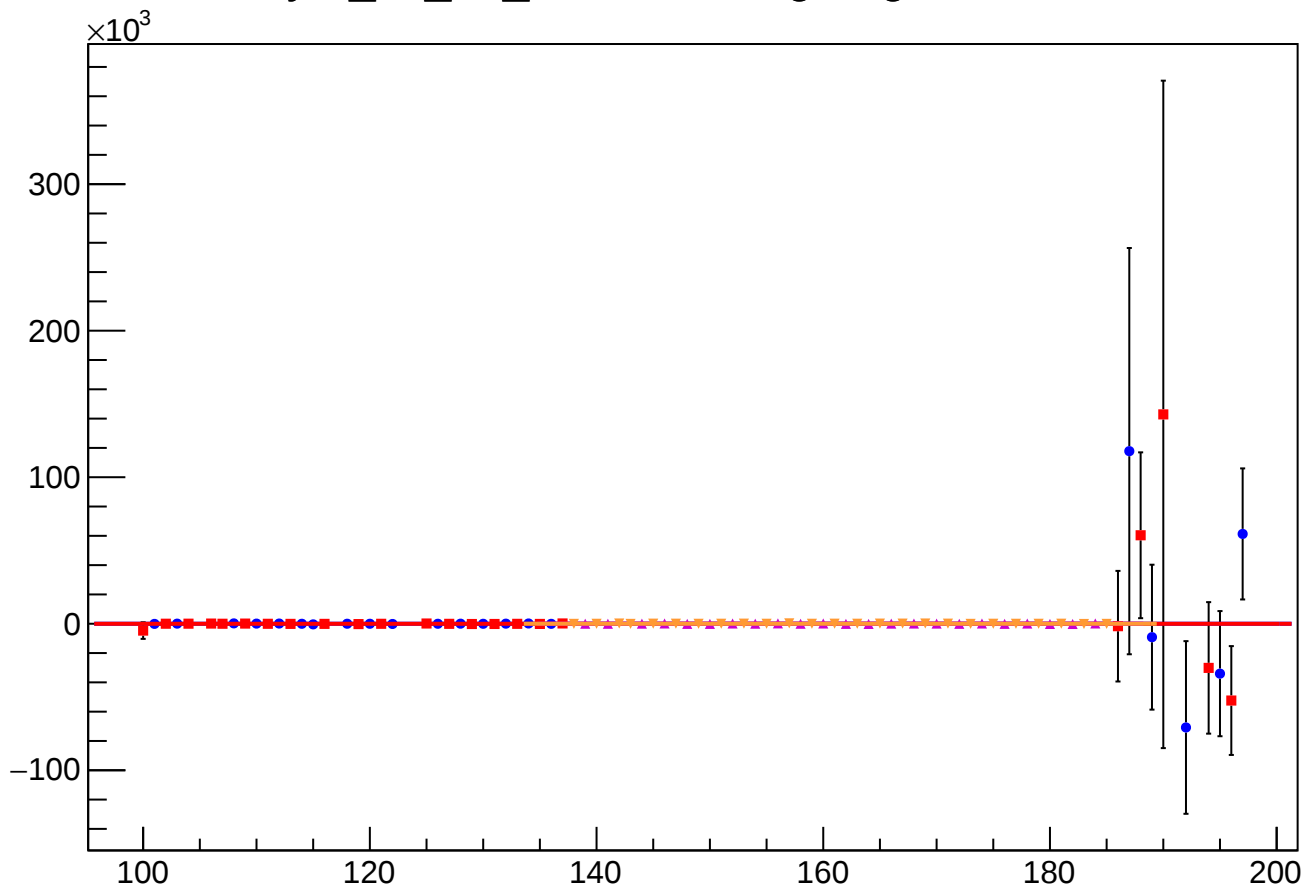
Right: 1.274+/-0.000 χ^2/NDF : 6990585.0/44

In: 1.381+/-0.000 χ^2/NDF : 4445013.4/43

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

All: 1.401+/-0.000 χ^2/NDF : 9534929.3/92

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.401 ± 30.020 $\chi^2/\text{NDF}: 18.6/20$

Left Out: 10.423 ± 20.971 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -26.414 ± 30.482 $\chi^2/\text{NDF}: 17.0/22$

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

Left: 26.670 ± 15.046 $\chi^2/\text{NDF}: 50.7/47$

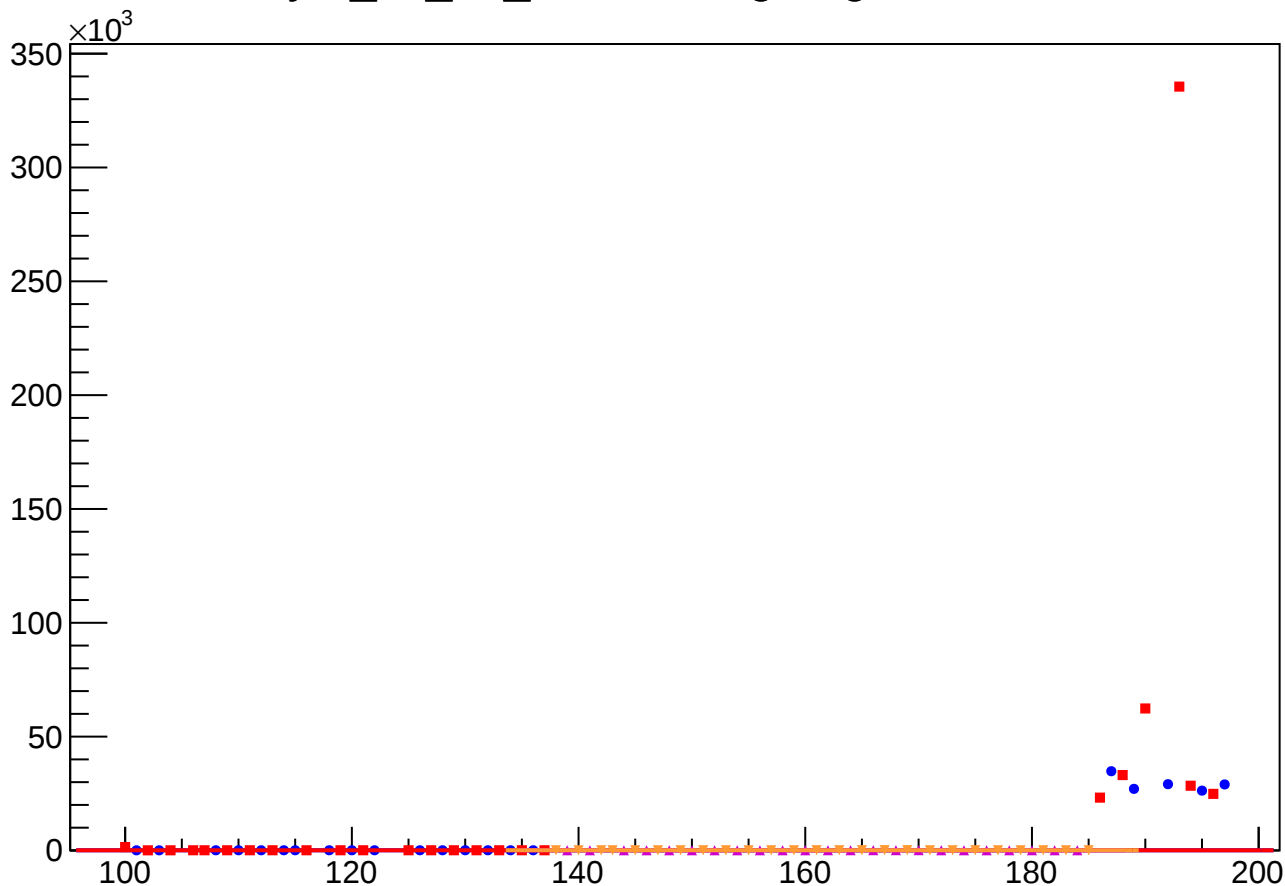
Right: -9.249 ± 21.389 $\chi^2/\text{NDF}: 36.2/43$

In: 31.453 ± 17.533 $\chi^2/\text{NDF}: 50.7/43$

Out: -1.411 ± 17.277 $\chi^2/\text{NDF}: 36.3/47$

All: 14.779 ± 12.306 $\chi^2/\text{NDF}: 88.8/91$

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.070 $\pm$ 0.021 χ^2 /NDF: 3237926.6/20

Left Out: 89.535 $\pm$ 0.015 χ^2 /NDF: 469743.0/24

Right Out: 79.375 $\pm$ 0.022 χ^2 /NDF: 3761237.9/23

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

Left: 89.593 $\pm$ 0.011 χ^2 /NDF: 981623.6/47

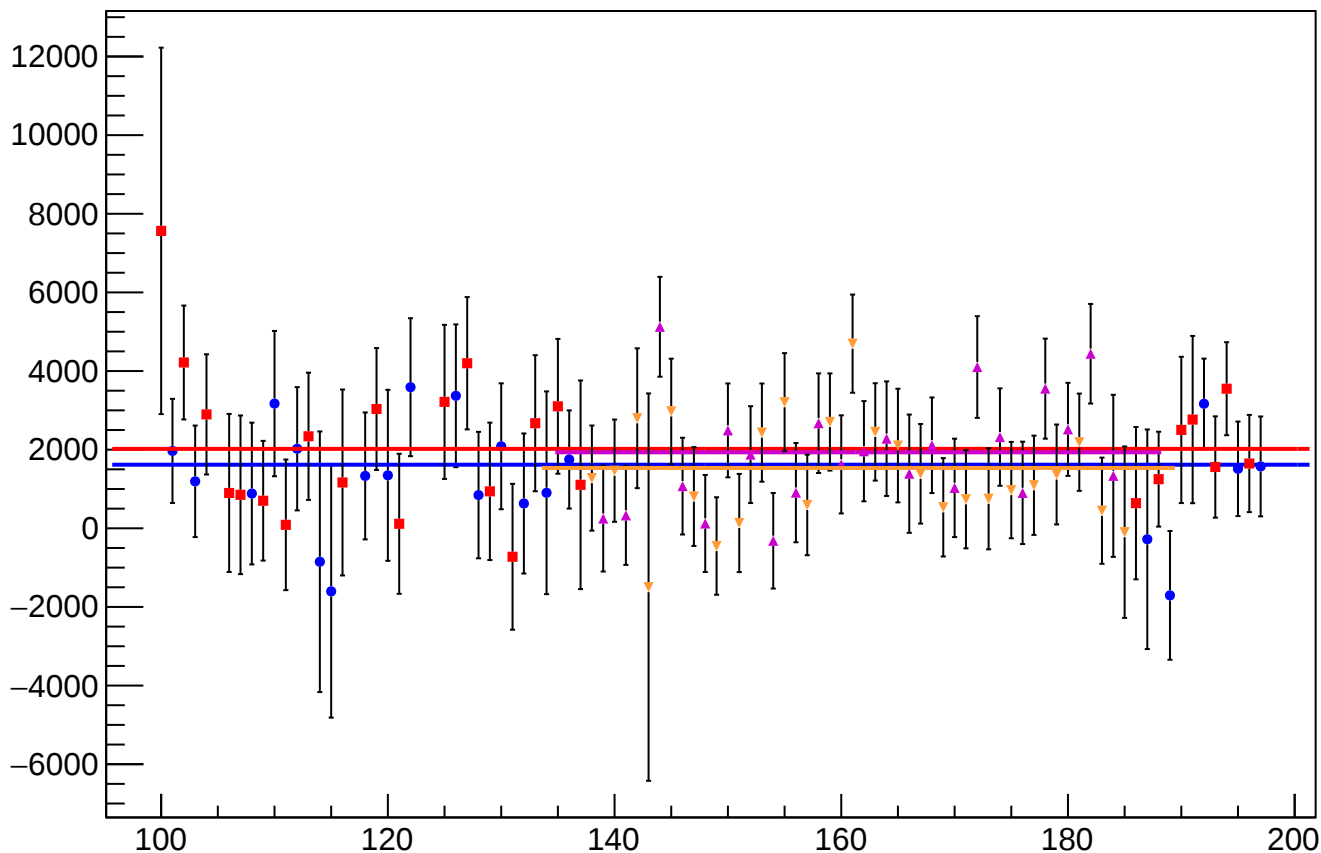
Right: 77.698 $\pm$ 0.015 χ^2 /NDF: 7011101.0/44

In: 85.021 $\pm$ 0.012 χ^2 /NDF: 4019604.2/43

Out: 86.271 $\pm$ 0.012 χ^2 /NDF: 4381770.2/48

All: 85.655 $\pm$ 0.009 χ^2 /NDF: 8406531.4/92

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1617.354 $\pm$ 354.860 χ^2 /NDF: 12.0/20

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

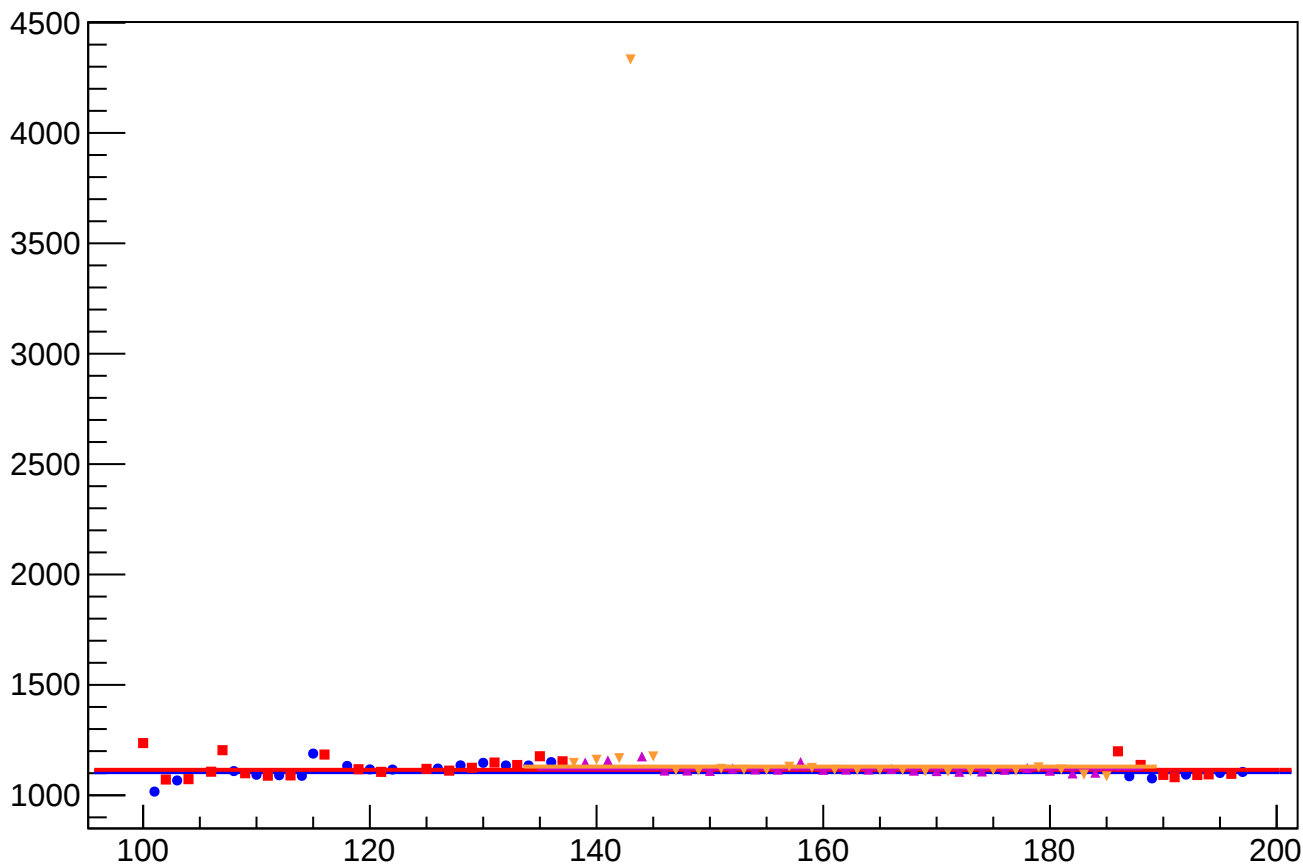
Right: 1831.597 $\pm$ 242.862 χ^2 /NDF: 29.5/45

In: 1818.351 $\pm$ 213.865 χ^2 /NDF:39.5/43

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

All: 1769.842 $\pm$ 149.034 χ^2 /NDF: 78.1/93

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1104.820+/-0.251 χ^2/NDF : 19344.0/20

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

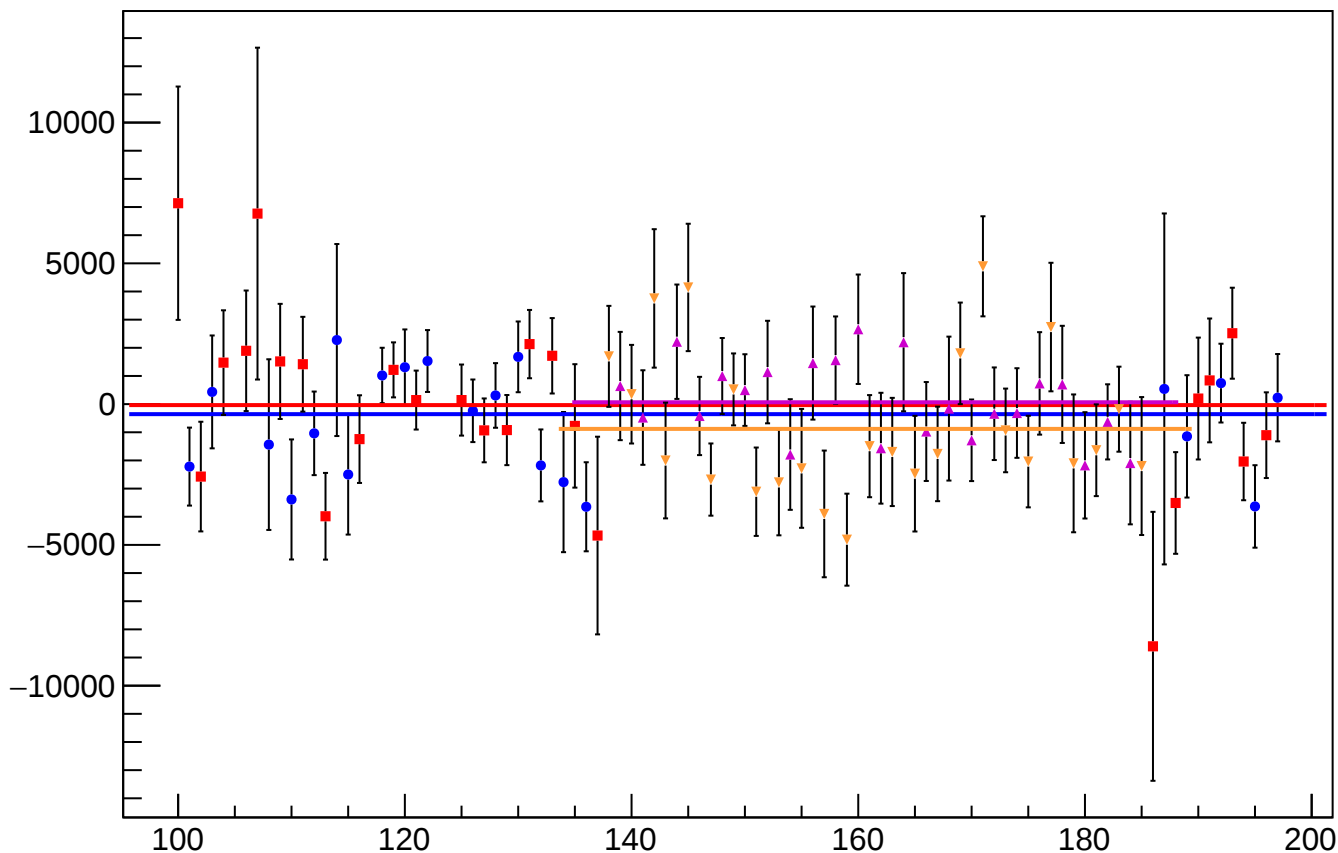
Right: 1110.385+/-0.172 χ^2/NDF : 42799.8/45

In: 1115.117+/-0.151 χ^2/NDF : 31630.4/43

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

All: 1119.797+/-0.105 χ^2/NDF : 916633.4/93

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -356.175 ± 328.211 $\chi^2/\text{NDF}: 28.6/20$

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 $\chi^2/\text{NDF}: 59.2/47$

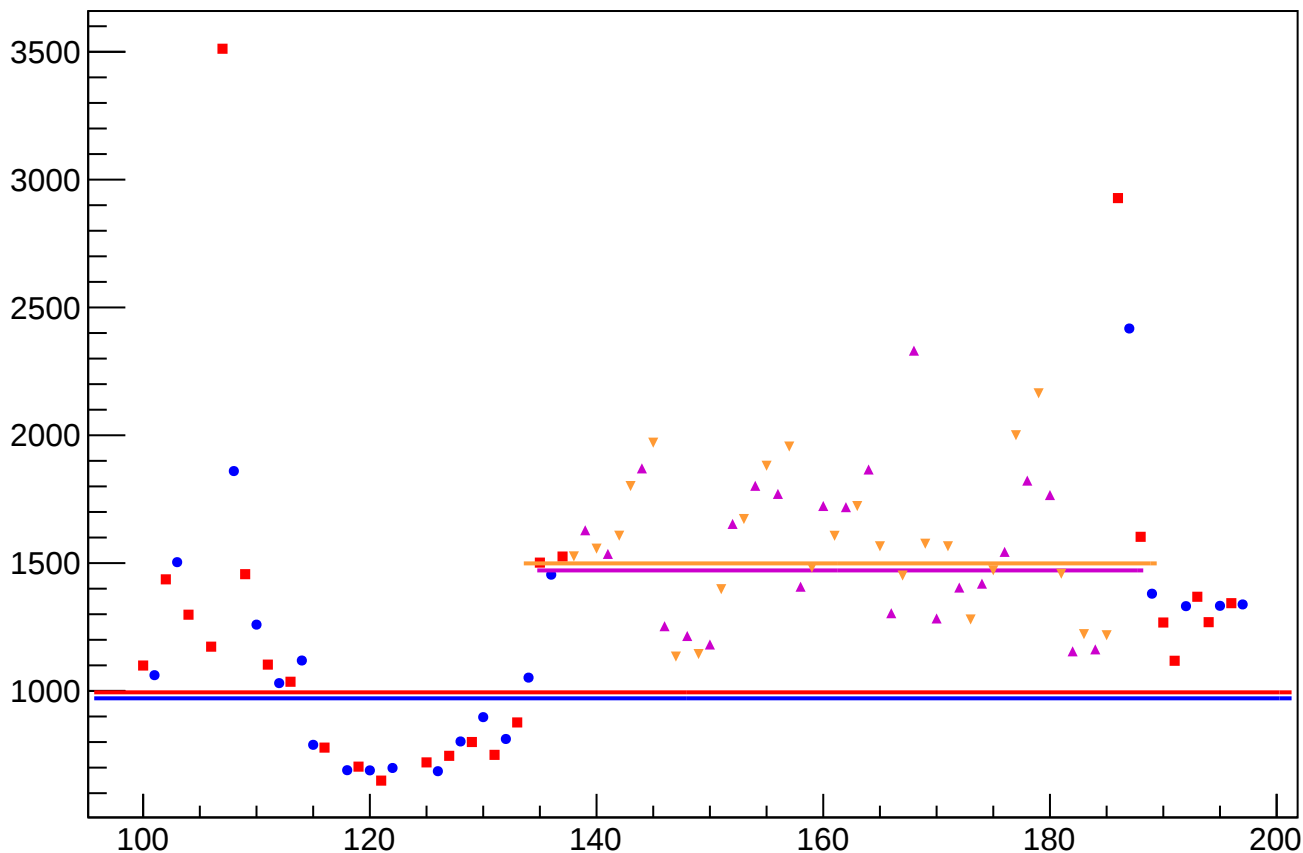
Right: -189.852 ± 228.104 $\chi^2/\text{NDF}: 66.8/45$

In: -163.958 ± 242.169 $\chi^2/\text{NDF}: 41.5/43$

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

All: -289.216 ± 169.293 $\chi^2/\text{NDF}: 126.5/93$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 971.068+/-0.232 χ^2/NDF : 1701962.8/20

Left Out: 1498.849+/-0.252 χ^2/NDF :1053906.2/24

Right Out: 994.488+/-0.224 χ^2/NDF : 2455001.3/24

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

Left: 1485.240+/-0.179 χ^2/NDF : 2165123.0/47

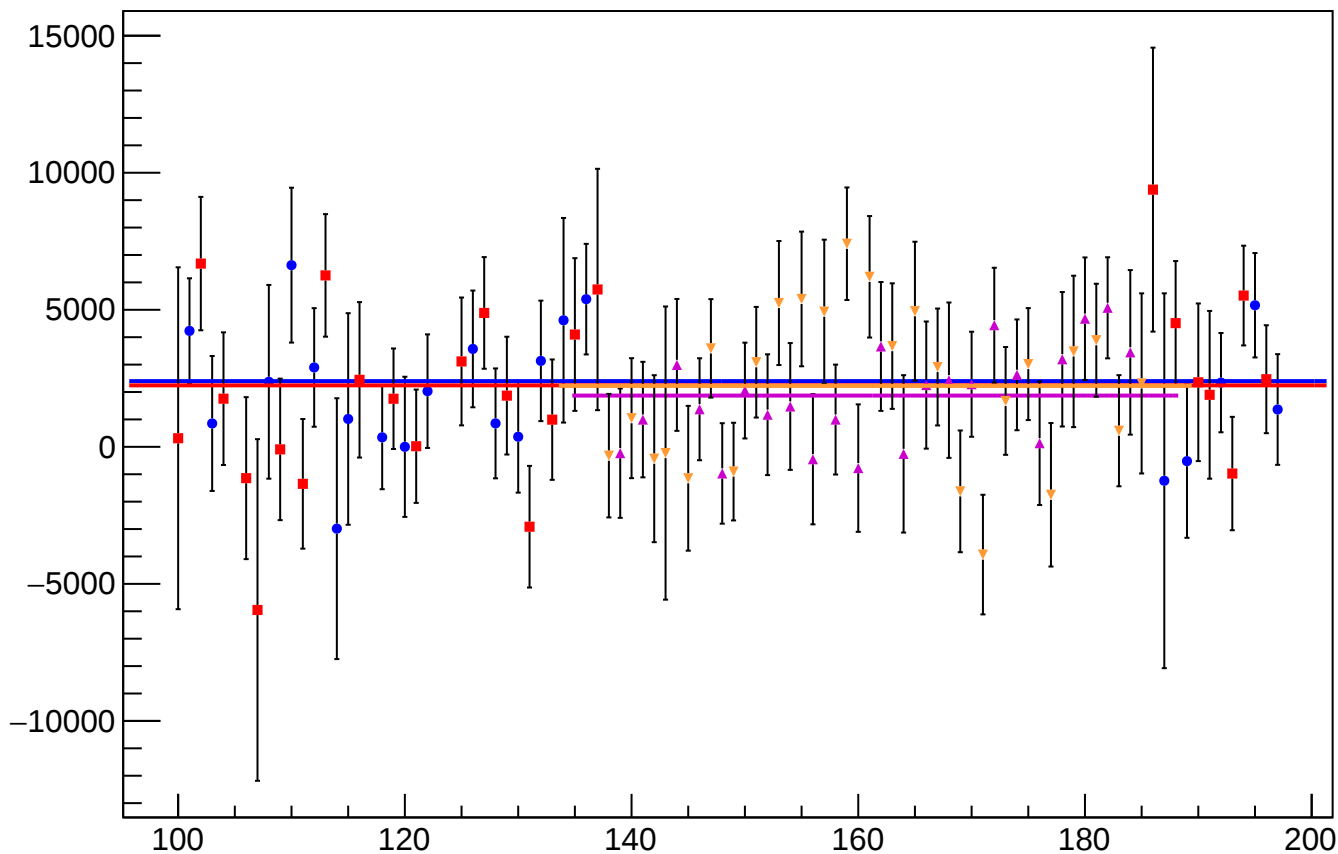
Right: 983.175+/-0.161 χ^2/NDF : 4162228.8/45

In: 1199.008+/-0.171 χ^2/NDF :4924647.0/43

Out: 1217.945+/-0.167 χ^2/NDF :5748557.9/49

All: 1208.691+/-0.120 χ^2/NDF : 10679458.2/9

asym_usl_mean vs Slug, Sign Corrected



Right In: 2397.399+/-510.245 χ^2/NDF : 15.4/20

Left Out: 2226.533+/-454.821 χ^2/NDF : 38.8/24

Right Out: 2242.625+/-489.351 χ^2/NDF : 31.3/24

Left In: 1869.792+/-455.465 χ^2/NDF : 14.9/22

Left: 2048.415+/-321.834 χ^2/NDF : 54.0/47

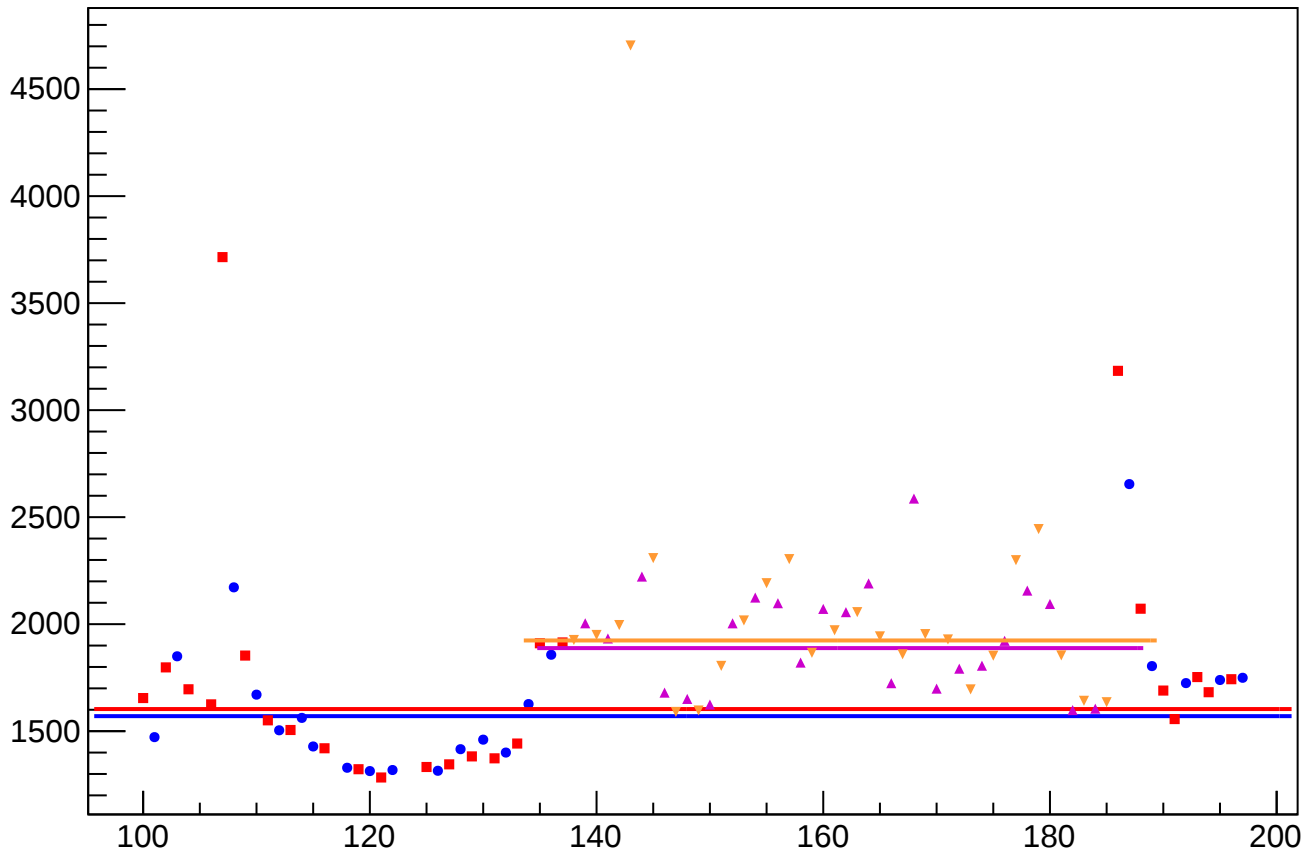
Right: 2316.778+/-353.179 χ^2/NDF : 46.8/45

In: 2103.763+/-339.785 χ^2/NDF : 30.9/43

Out: 2233.992+/-333.146 χ^2/NDF : 70.1/49

All: 2170.162+/-237.882 χ^2/NDF : 101.1/93

asym_usl_rms vs Slug, Sign Corrected



Right In: 1570.214 $\pm$ 0.361 χ^2/NDF : 387820.1/20

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

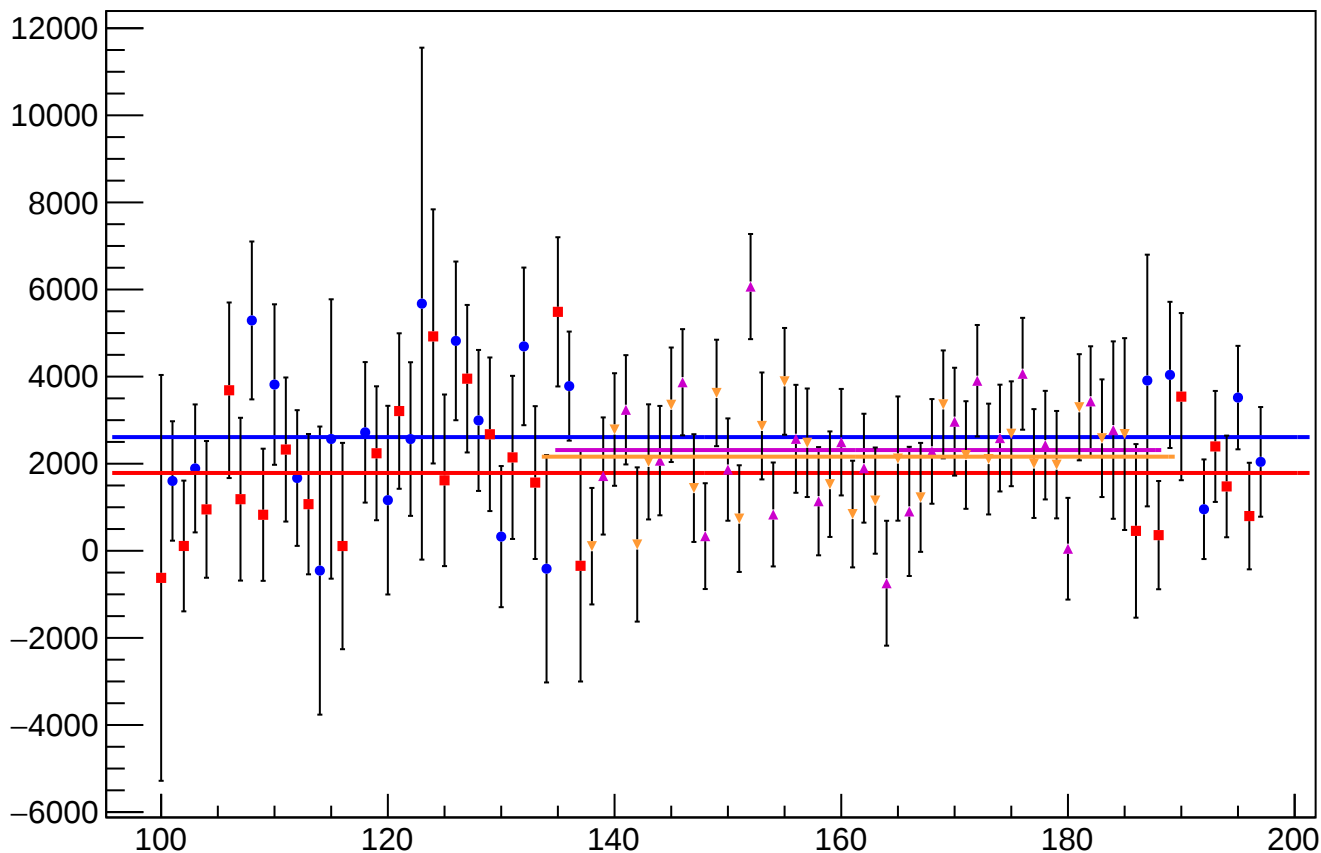
Right: 1587.477 $\pm$ 0.250 χ^2/NDF : 1209858.6/45

In: 1747.143 $\pm$ 0.240 χ^2/NDF : 1324475.0/43

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

All: 1761.499 $\pm$ 0.168 χ^2/NDF : 3615502.7/93

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2610.935 $\pm$ 356.376 χ^2 /NDF: 16.2/21

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

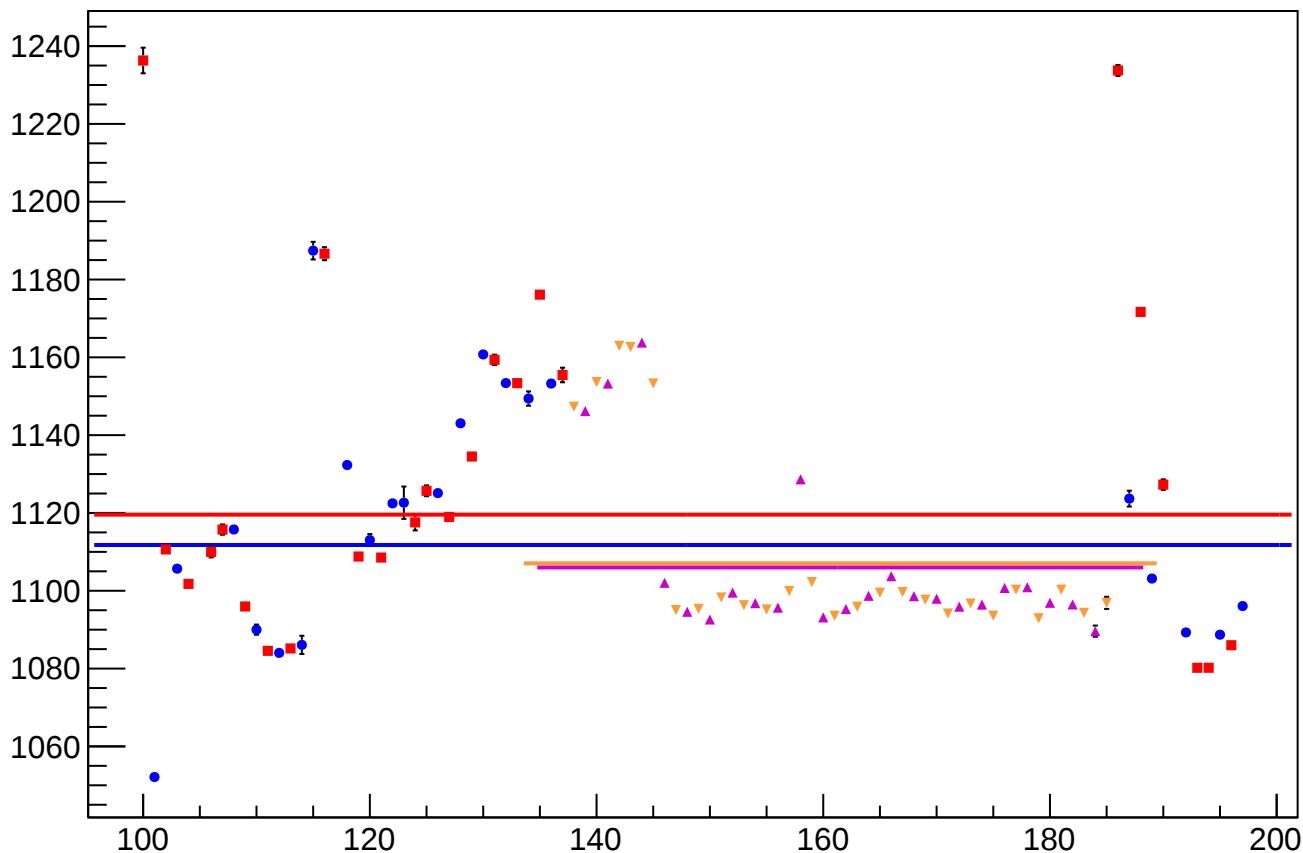
Right: 2175.081 $\pm$ 244.506 χ^2 /NDF: 35.7/46

In: 2419.113 $\pm$ 212.357 χ^2 /NDF:47.9/44

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

All: 2213.551 $\pm$ 147.269 χ^2 /NDF: 82.3/94

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1111.767 $\pm$ 0.252 χ^2 /NDF: 14653.6/21

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

Right Out: 1119.568 $\pm$ 0.238 χ^2 /NDF: 25854.2/24

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

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

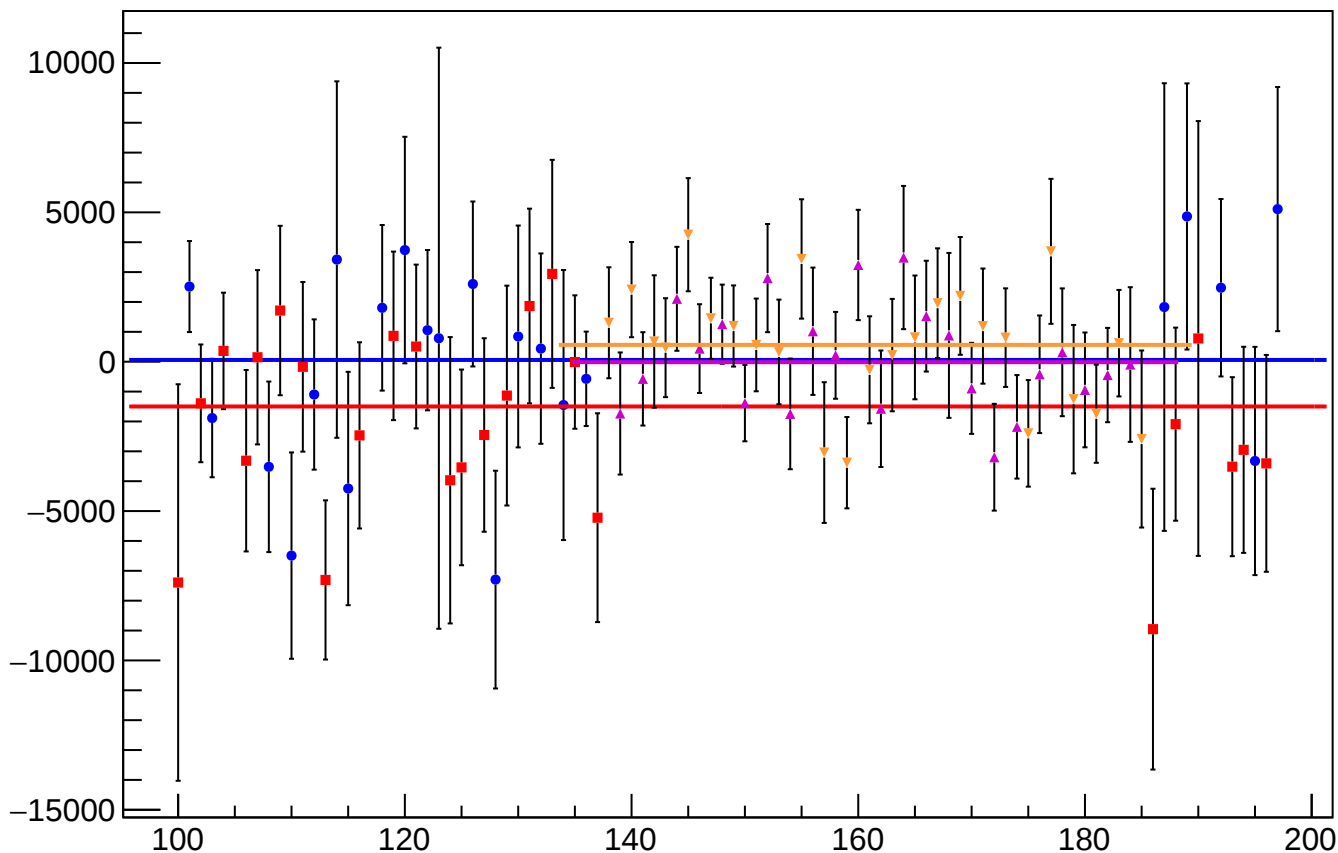
Right: 1115.896 $\pm$ 0.173 χ^2 /NDF: 41015.0/46

In: 1108.046 $\pm$ 0.150 χ^2 /NDF:26543.1/44

Out: 1111.685 $\pm$ 0.145 χ^2 /NDF:42776.3/49

All: 1109.935 $\pm$ 0.104 χ^2 /NDF: 69624.4/94

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 59.186+/-616.717 χ^2/NDF : 21.4/21

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

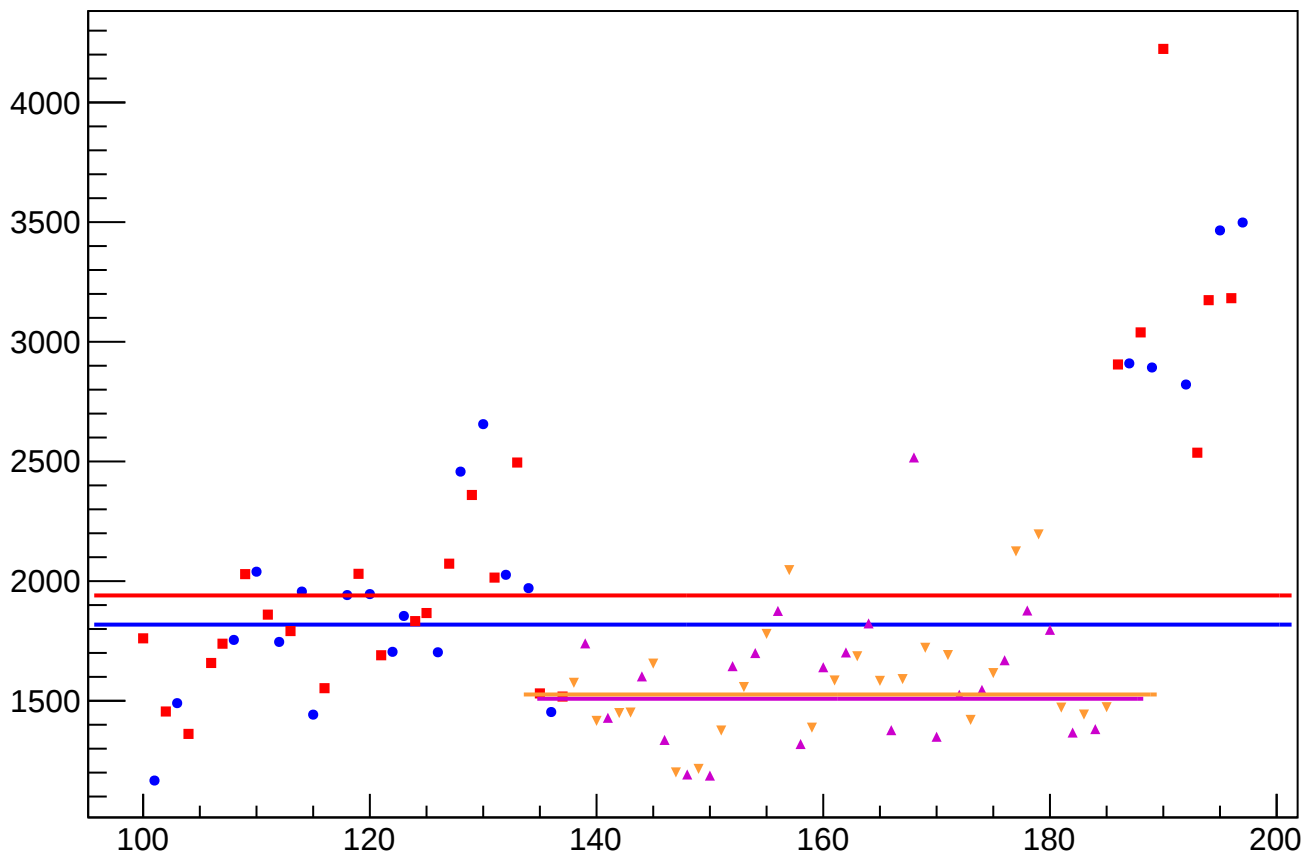
Right: -730.199+/-433.090 χ^2/NDF : 42.9/46

In: 4.005+/-315.289 χ^2/NDF :41.6/44

Out: 26.592+/-310.389 χ^2/NDF :53.5/49

All: 15.476+/-221.190 χ^2/NDF : 95.1/94

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1818.348 $\pm$ 0.436 χ^2 /NDF: 1841673.5/21

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

Right Out: 1940.191 $\pm$ 0.430 χ^2 /NDF: 1637587.2/24

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

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

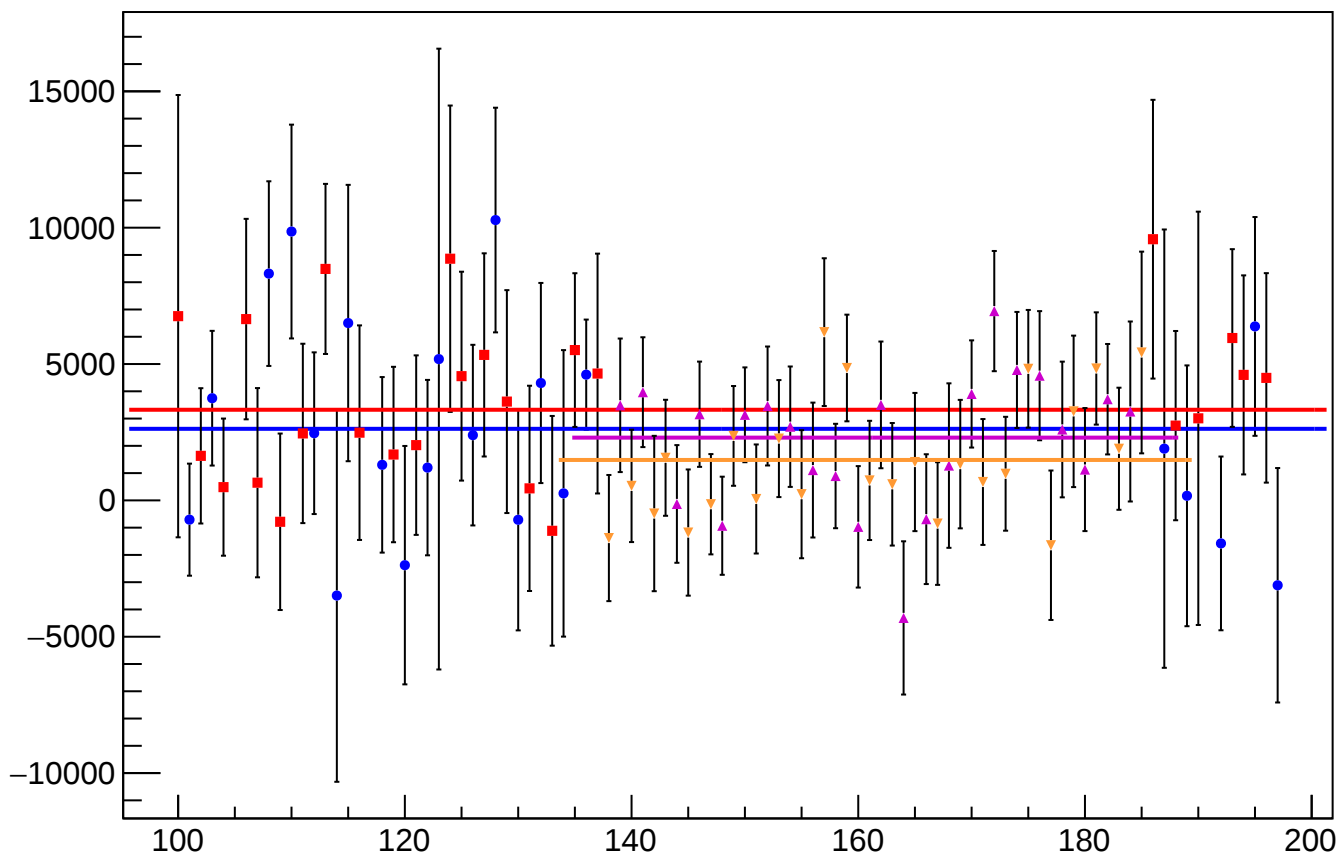
Right: 1880.103 $\pm$ 0.306 χ^2 /NDF: 3518827.6/46

In: 1589.543 $\pm$ 0.223 χ^2 /NDF: 3146058.1/44

Out: 1634.117 $\pm$ 0.219 χ^2 /NDF: 3075783.8/49

All: 1612.179 $\pm$ 0.156 χ^2 /NDF: 6242141.7/94

asym_usr_mean vs Slug, Sign Corrected



Right In: 2624.220+/-741.052 χ^2/NDF : 22.4/21

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

Right Out: 3323.306+/-716.213 χ^2/NDF : 14.4/24

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

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

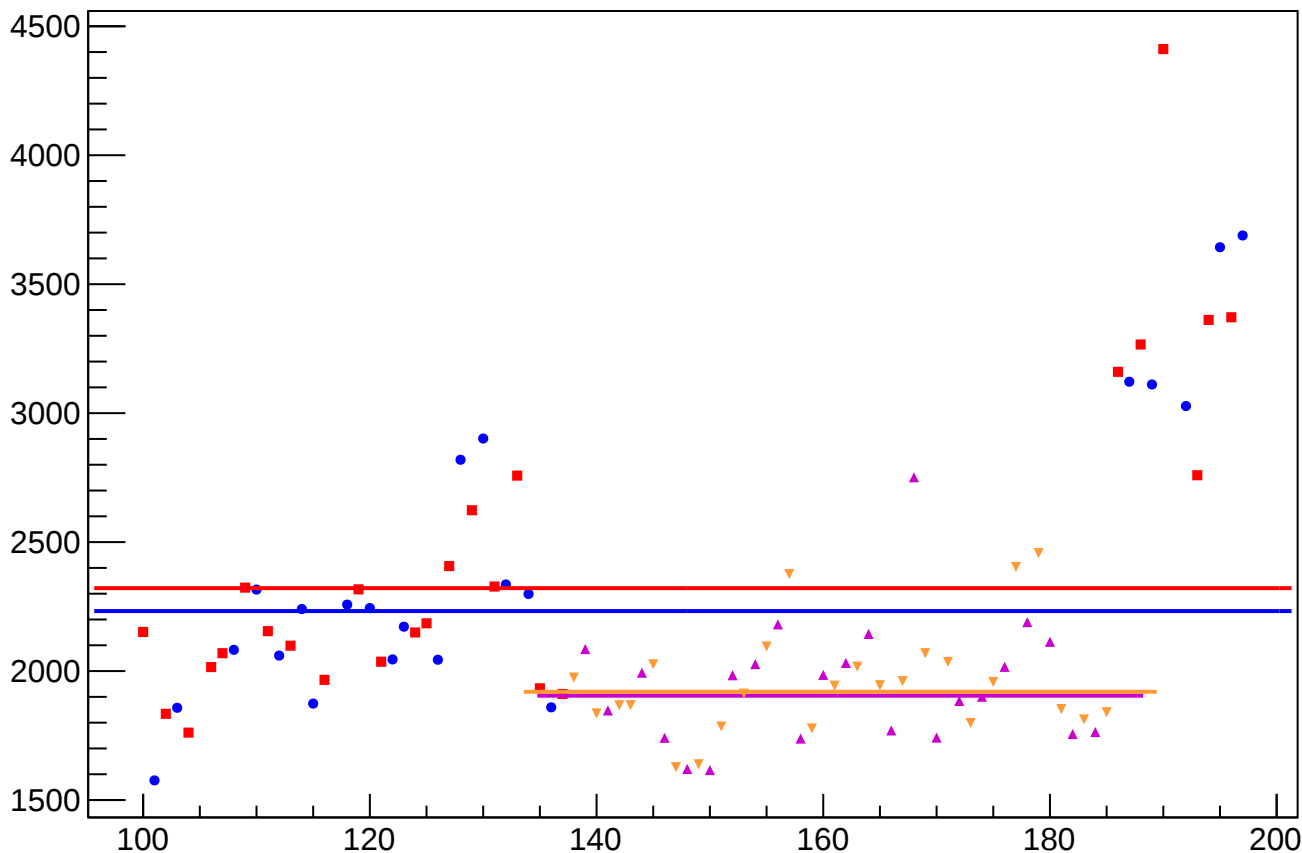
Right: 2985.675+/-514.997 χ^2/NDF : 37.2/46

In: 2390.809+/-390.236 χ^2/NDF : 47.3/44

Out: 2003.386+/-381.022 χ^2/NDF : 40.0/49

All: 2192.470+/-272.623 χ^2/NDF : 87.9/94

asym_usr_rms vs Slug, Sign Corrected



Right In: 2232.638+/-0.524 χ^2/NDF : 1144087.7/21

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

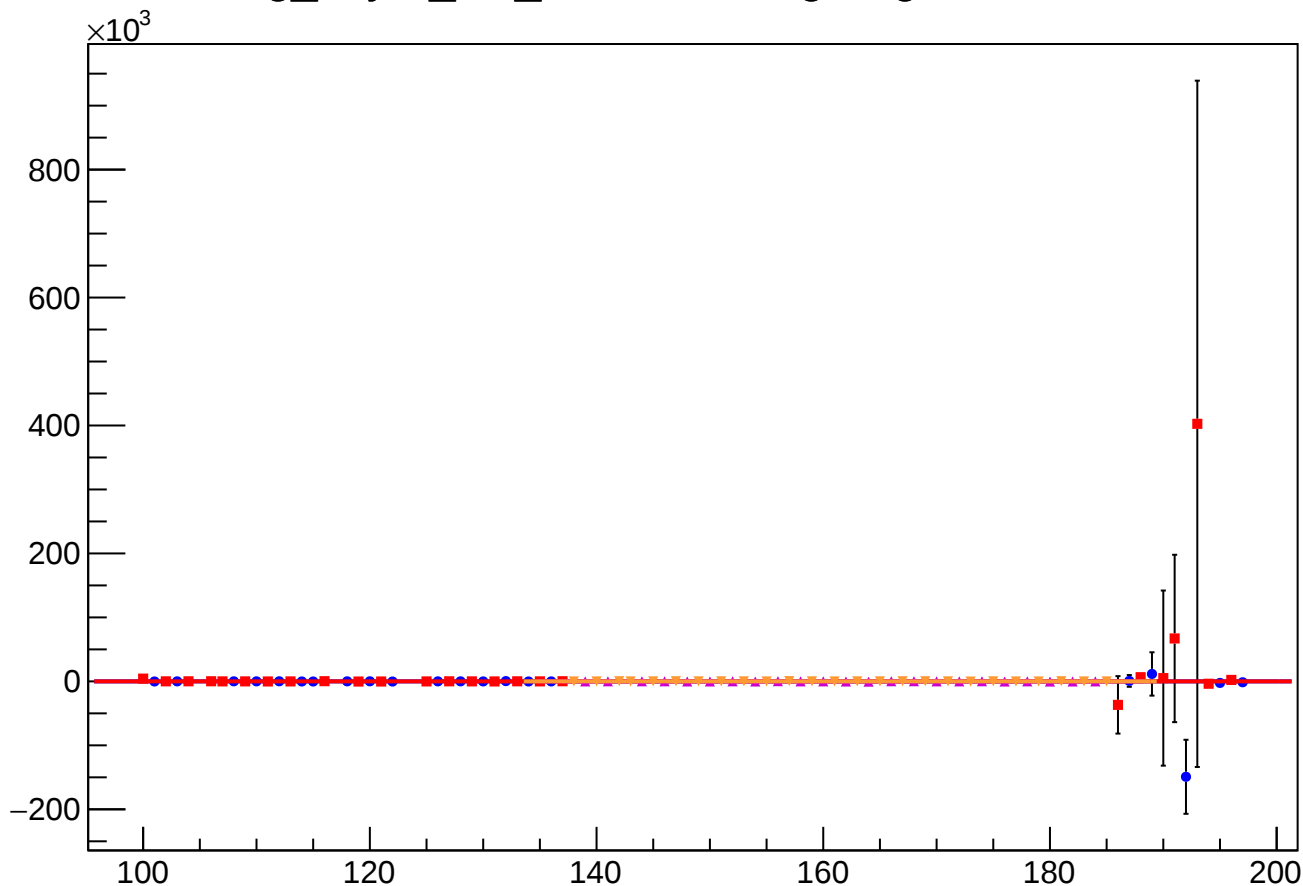
Right: 2278.602+/-0.364 χ^2/NDF : 2202821.2/46

In: 1995.587+/-0.276 χ^2/NDF : 1874617.4/44

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

All: 2014.971+/-0.193 χ^2/NDF : 3745642.4/94

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.075 ± 36.768 $\chi^2/\text{NDF}: 23.7/20$

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 $\chi^2/\text{NDF}: 73.1/47$

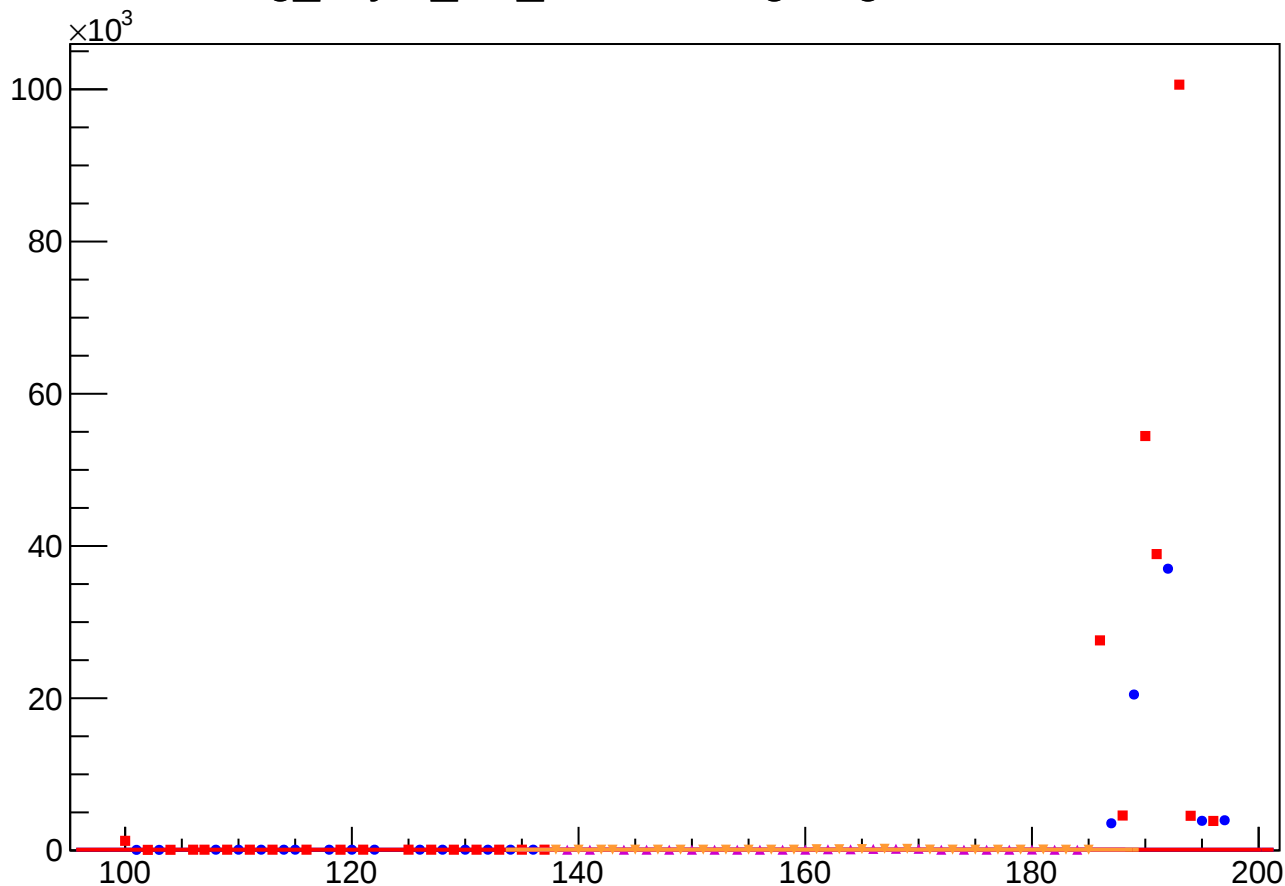
Right: 0.368 ± 25.994 $\chi^2/\text{NDF}: 40.9/45$

In: 16.014 ± 21.414 $\chi^2/\text{NDF}: 60.4/43$

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

All: 10.763 ± 14.990 $\chi^2/\text{NDF}: 114.3/93$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.678+/-0.026 χ^2/NDF : 5028973.6/20

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

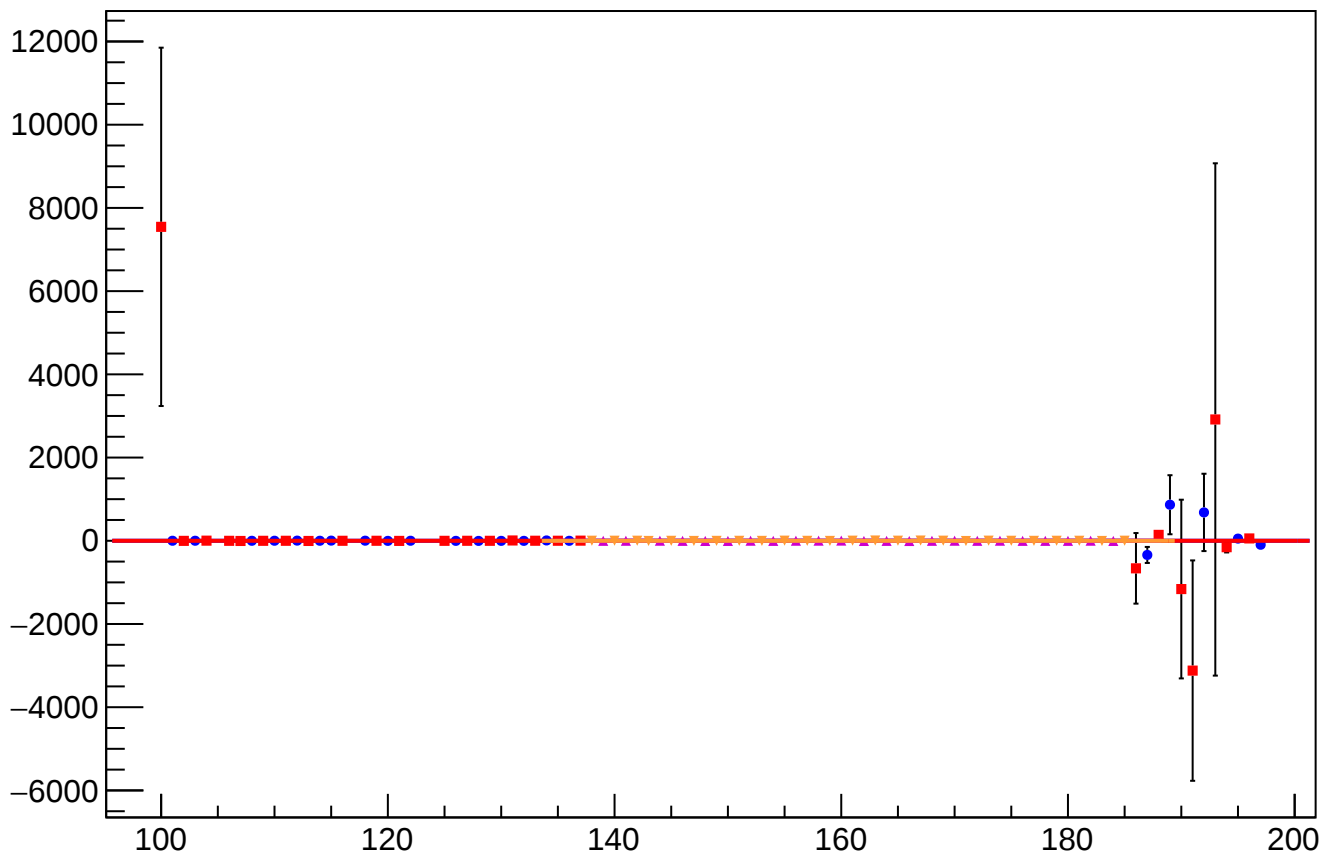
Right: 95.824+/-0.018 χ^2/NDF : 10243301.8/45

In: 103.265+/-0.015 χ^2/NDF : 6685080.2/43

Out: 104.125+/-0.015 χ^2/NDF : 6770332.1/49

All: 103.704+/-0.011 χ^2/NDF : 13457060.1/93

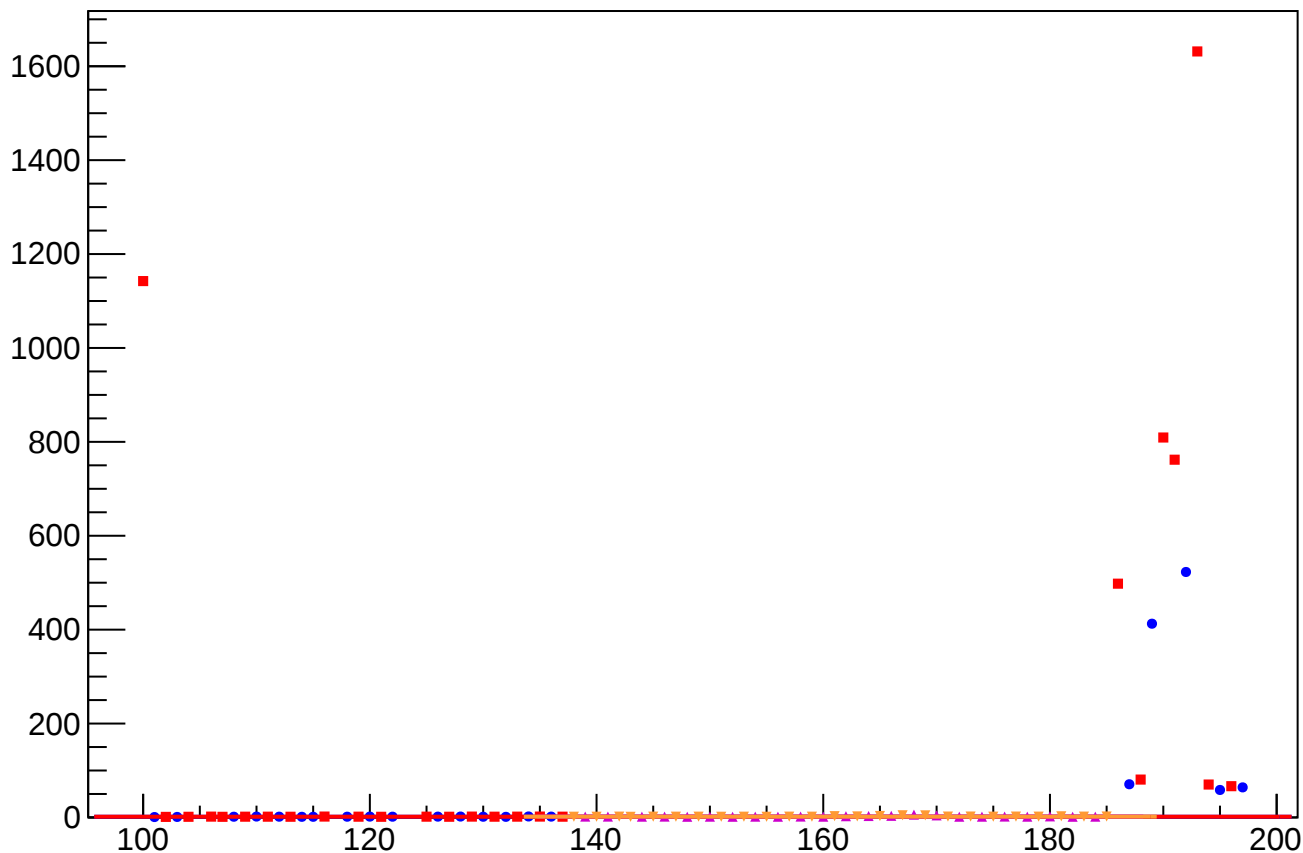
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.385 $\pm$ 0.617 χ^2 /NDF: 17.5/20
Left Out: -0.765 $\pm$ 0.459 χ^2 /NDF:34.1/24
Right Out: -0.340 $\pm$ 0.644 χ^2 /NDF: 27.4/24
Left In: -0.067 $\pm$ 0.485 χ^2 /NDF:25.0/22

Left: -0.435 $\pm$ 0.333 χ^2 /NDF: 60.2/47
Right: 0.038 $\pm$ 0.445 χ^2 /NDF: 45.6/45
In: 0.105 $\pm$ 0.381 χ^2 /NDF:42.8/43
Out: -0.621 $\pm$ 0.374 χ^2 /NDF:61.9/49
All: -0.265 $\pm$ 0.267 χ^2 /NDF: 106.6/93

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.429+/-0.000 χ^2/NDF : 4802596.2/20

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

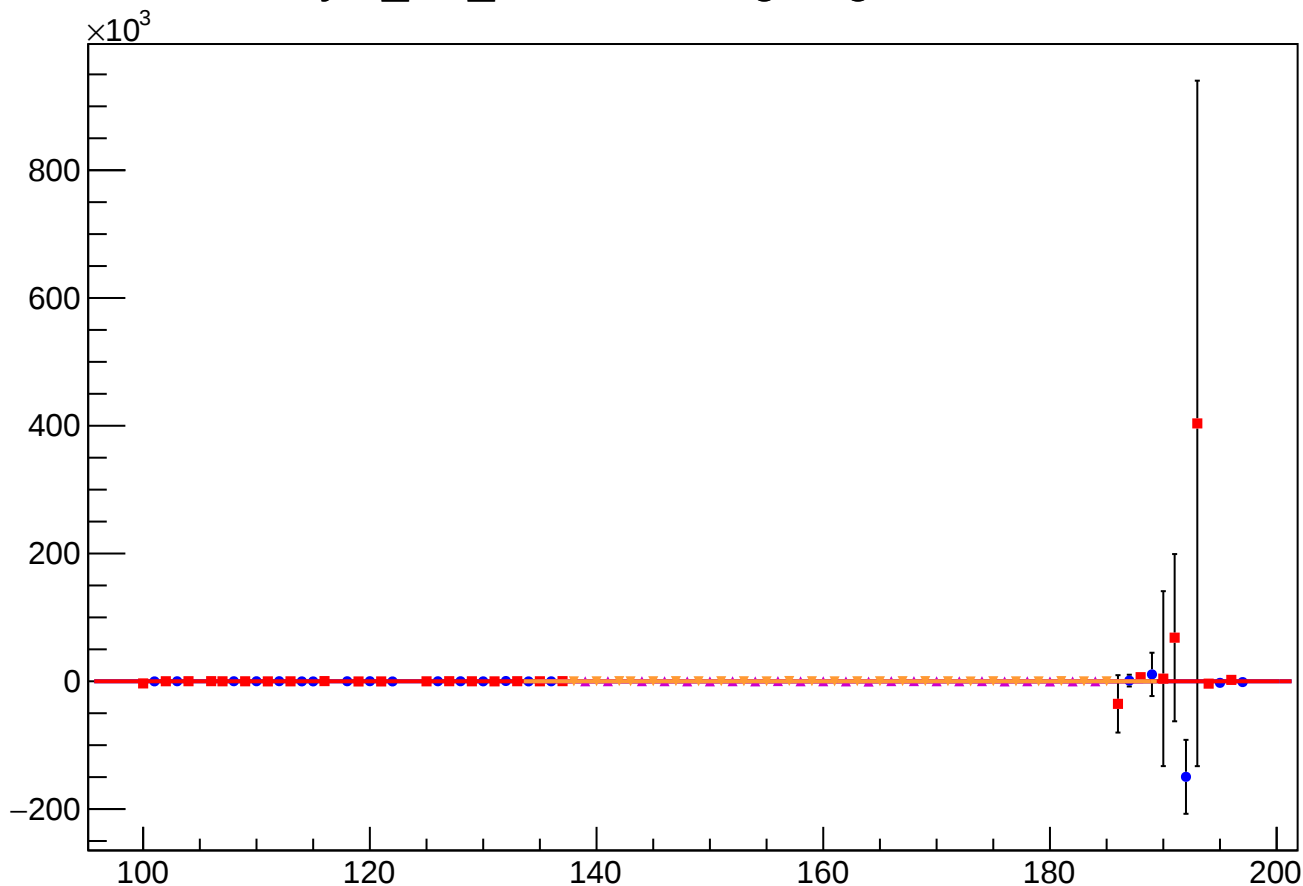
Right: 1.494+/-0.000 χ^2/NDF : 9543038.2/45

In: 1.660+/-0.000 χ^2/NDF :7176253.7/43

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

All: 1.673+/-0.000 χ^2/NDF : 13664751.6/93

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.767 ± 36.778 $\chi^2/\text{NDF}: 23.9/20$

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 $\chi^2/\text{NDF}: 72.2/47$

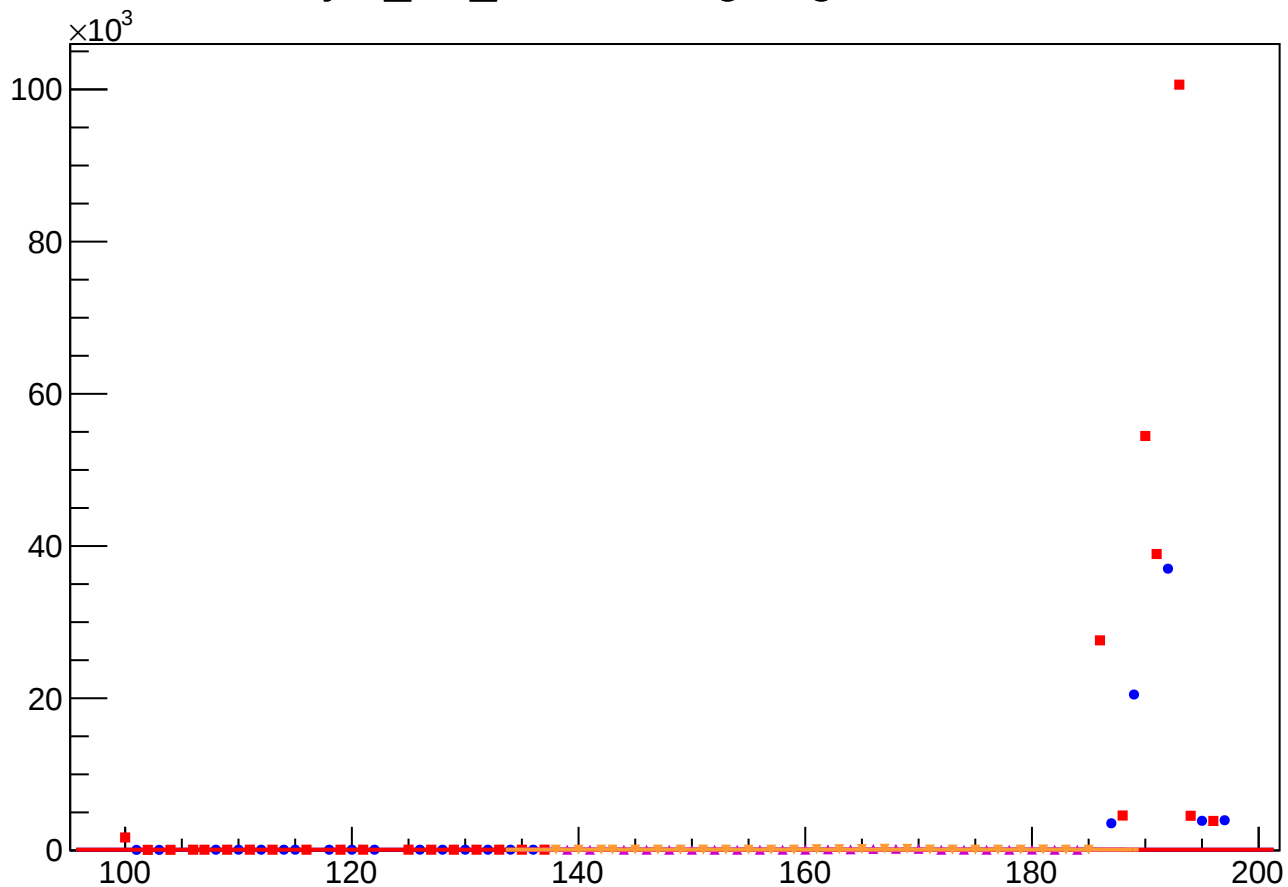
Right: 0.399 ± 26.001 $\chi^2/\text{NDF}: 40.5/45$

In: 16.465 ± 21.421 $\chi^2/\text{NDF}: 59.9/43$

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

All: 11.219 ± 14.995 $\chi^2/\text{NDF}: 113.0/93$

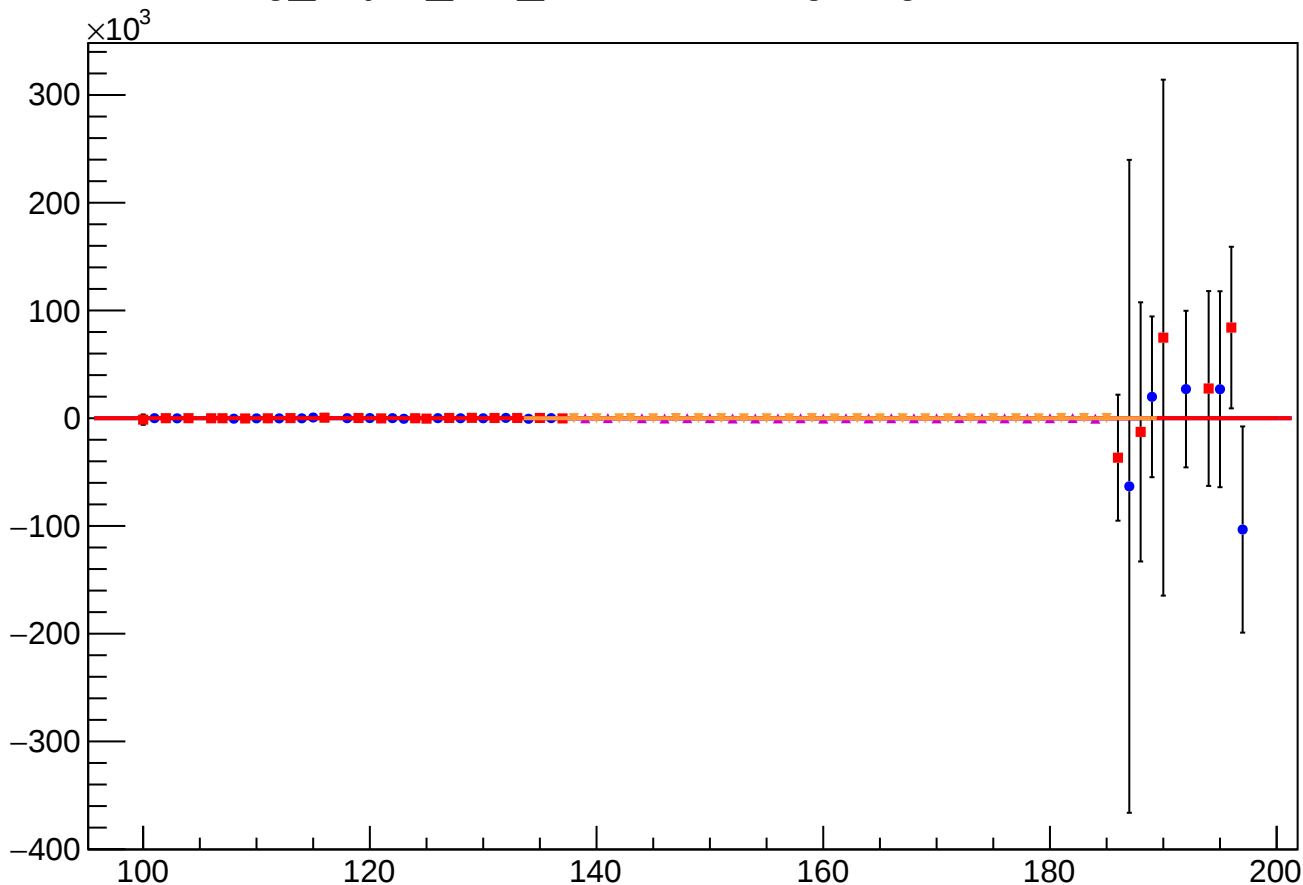
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.702 $\pm$ 0.026 χ^2 /NDF: 5028964.3/20
 Left Out: 107.620 $\pm$ 0.018 χ^2 /NDF: 1448769.2/24
 Right Out: 96.979 $\pm$ 0.026 χ^2 /NDF: 5215638.7/24
 Left In: 107.703 $\pm$ 0.019 χ^2 /NDF: 1492338.5/22

Left: 107.660 $\pm$ 0.013 χ^2 /NDF: 2941117.9/47
 Right: 95.841 $\pm$ 0.018 χ^2 /NDF: 10248435.2/45
 In: 103.293 $\pm$ 0.015 χ^2 /NDF: 6686444.7/43
 Out: 104.149 $\pm$ 0.015 χ^2 /NDF: 6777318.4/49
 All: 103.729 $\pm$ 0.011 χ^2 /NDF: 13465391.0/93

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.797 $\pm$ 46.841 χ^2 /NDF: 15.9/21

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

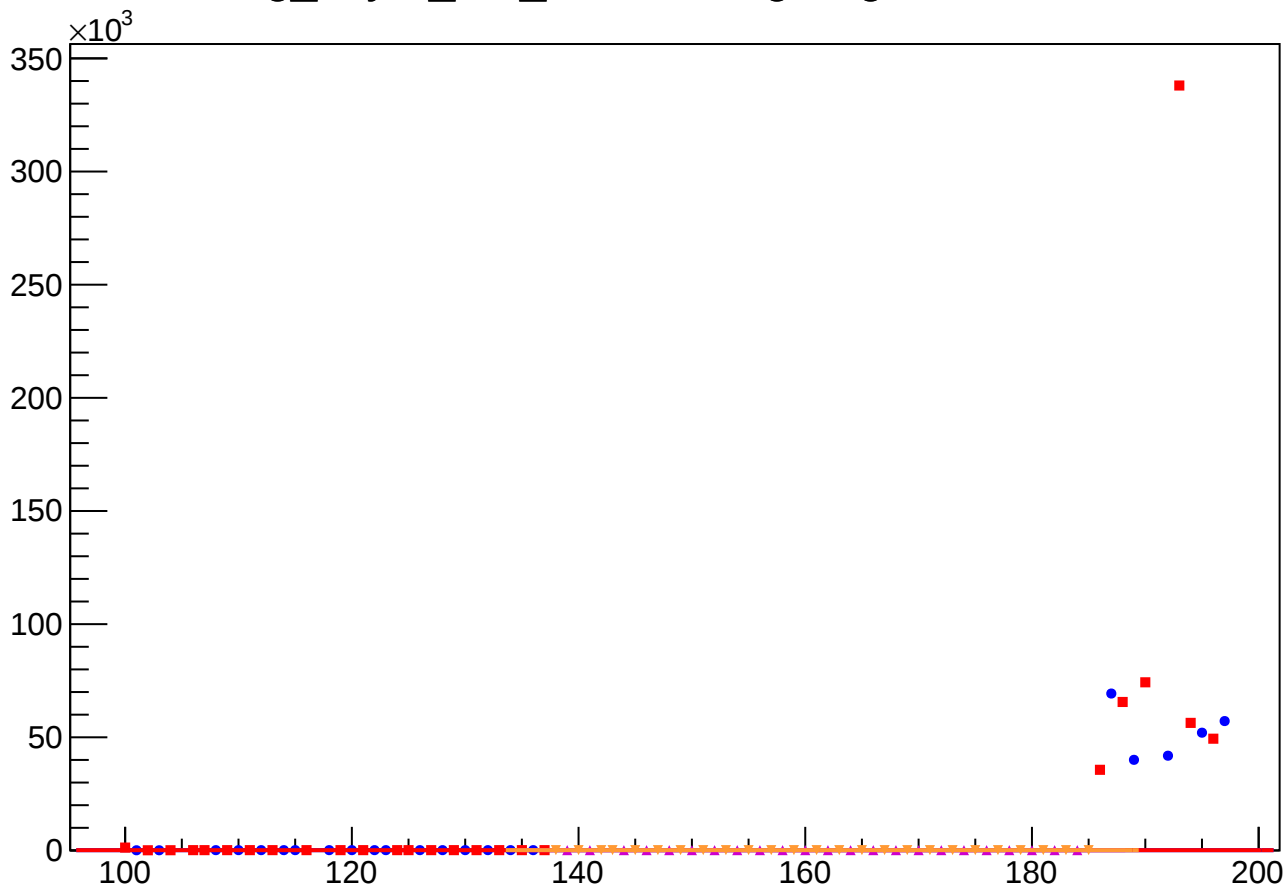
Right: 12.511 $\pm$ 33.447 χ^2 /NDF: 34.6/45

In: -52.581 $\pm$ 26.947 χ^2 /NDF:35.7/44

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

All: -22.057 $\pm$ 18.939 χ^2 /NDF: 68.8/93

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.830 $\pm$ 0.033 χ^2 /NDF: 3646188.2/21

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

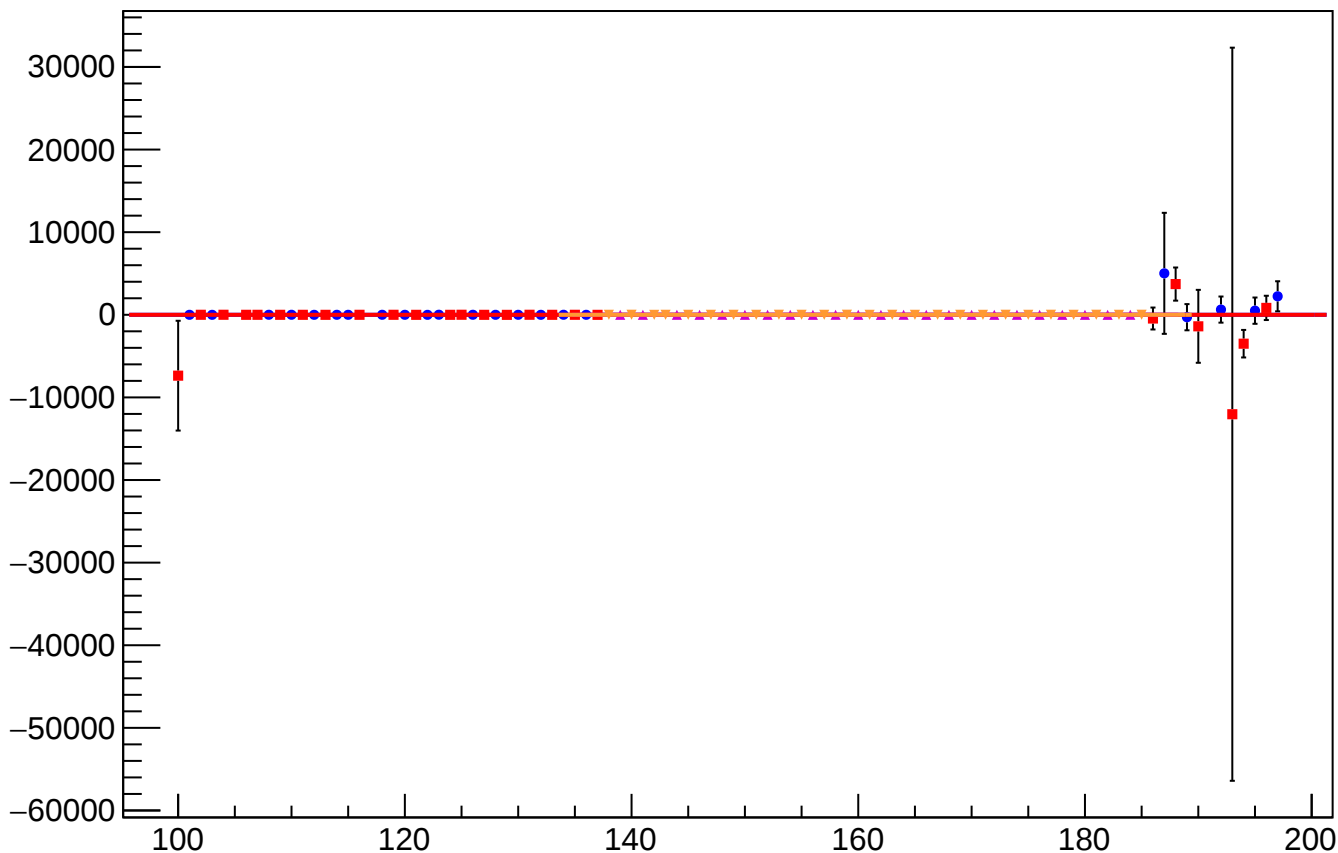
Right: 121.247 $\pm$ 0.024 χ^2 /NDF: 7746116.9/46

In: 131.194 $\pm$ 0.019 χ^2 /NDF: 3889983.8/44

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

All: 132.514 $\pm$ 0.013 χ^2 /NDF: 8081073.4/94

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.718 $\pm$ 0.810 χ^2/NDF : 14.5/21

Left Out: 0.490 $\pm$ 0.572 χ^2/NDF :29.0/24

Right Out: -0.638 $\pm$ 0.852 χ^2/NDF : 23.2/24

Left In: 0.290 $\pm$ 0.579 χ^2/NDF :20.7/22

Left: 0.391 $\pm$ 0.407 χ^2/NDF : 49.7/47

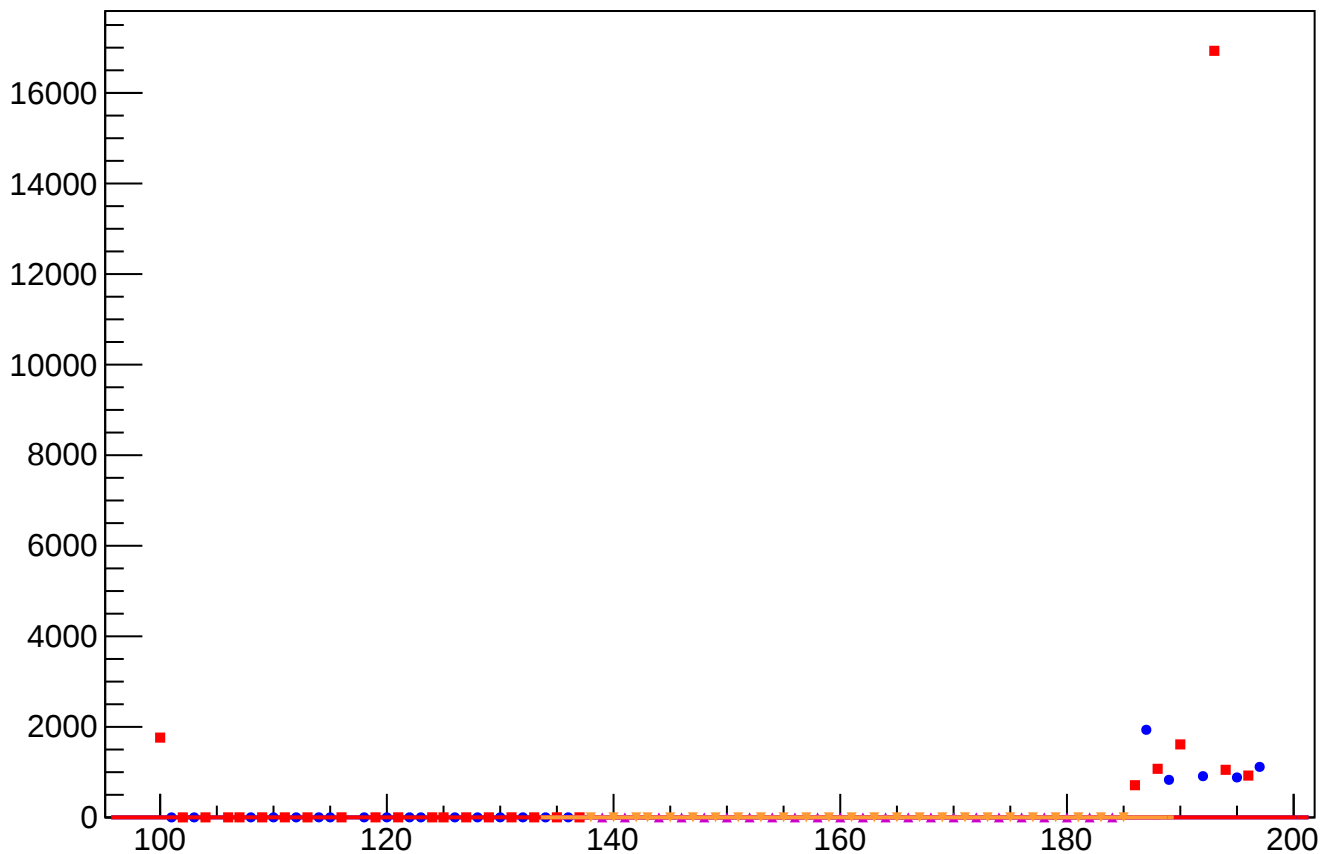
Right: -0.680 $\pm$ 0.587 χ^2/NDF : 37.6/46

In: -0.051 $\pm$ 0.471 χ^2/NDF :36.2/44

Out: 0.139 $\pm$ 0.475 χ^2/NDF :53.3/49

All: 0.043 $\pm$ 0.334 χ^2/NDF : 89.6/94

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866+/-0.001 χ^2/NDF : 3202945.0/21

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

Right Out: 2.065+/-0.001 χ^2/NDF : 3813102.4/24

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

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

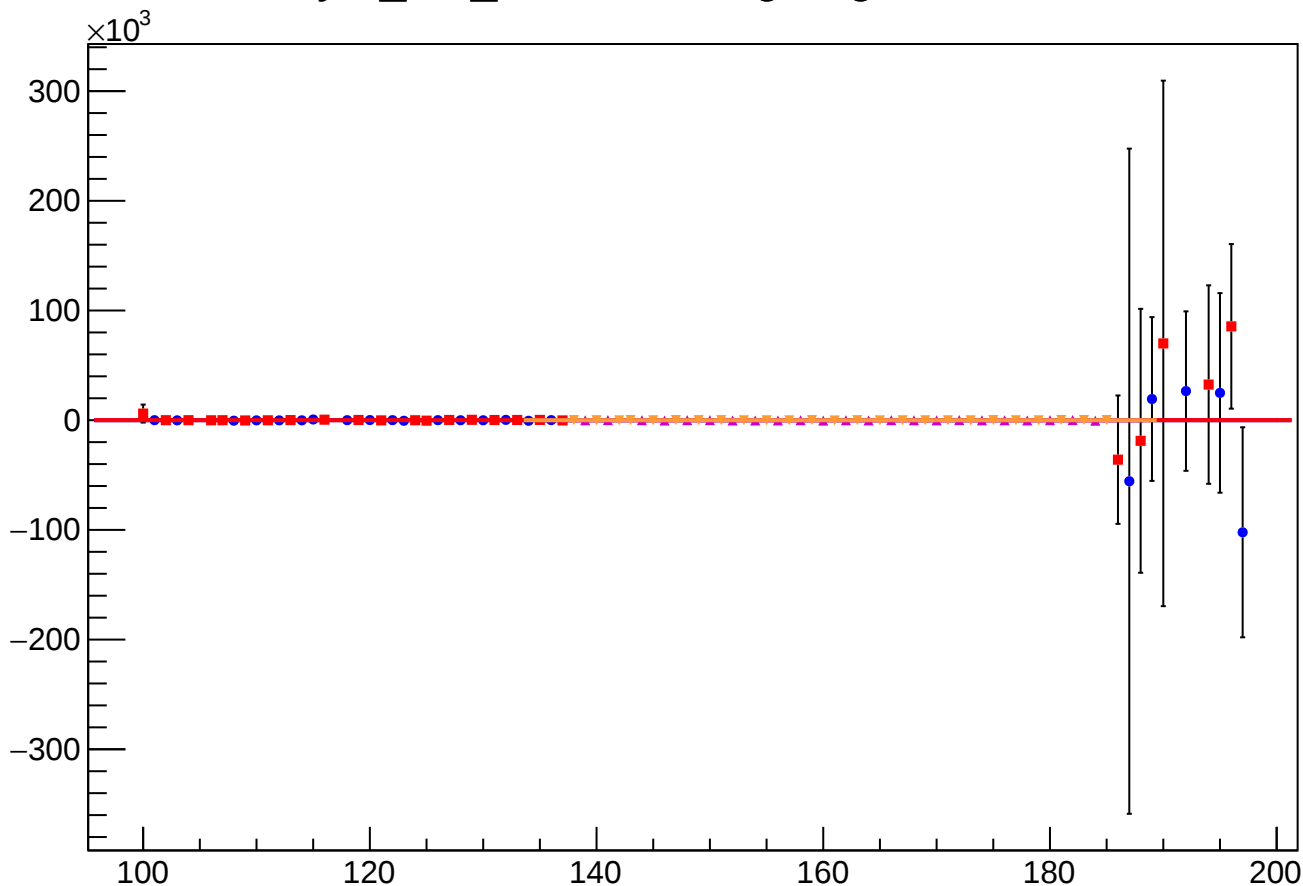
Right: 1.960+/-0.000 χ^2/NDF : 7073036.0/46

In: 2.082+/-0.000 χ^2/NDF : 3929152.7/44

Out: 2.201+/-0.000 χ^2/NDF : 4261896.0/49

All: 2.141+/-0.000 χ^2/NDF : 8253507.7/94

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.060 ± 46.854 χ^2/NDF : 15.9/21

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

Right Out: 54.305 ± 47.789 χ^2/NDF : 18.0/23

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

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

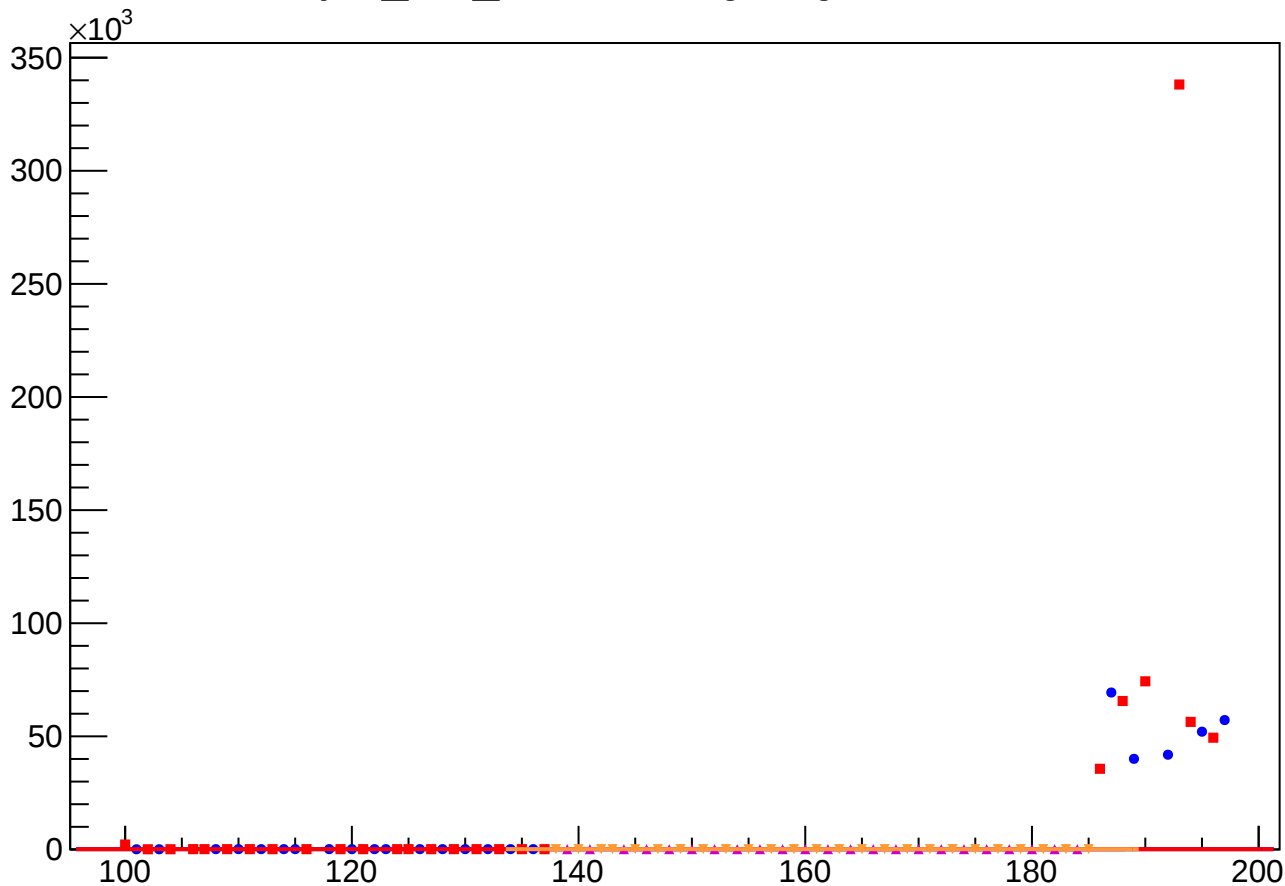
Right: 13.838 ± 33.456 χ^2/NDF : 35.3/45

In: -51.937 ± 26.954 χ^2/NDF : 35.8/44

Out: 7.636 ± 26.631 χ^2/NDF : 31.2/48

All: -21.791 ± 18.944 χ^2/NDF : 69.4/93

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.861 $\pm$ 0.033 χ^2 /NDF: 3646263.9/21

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

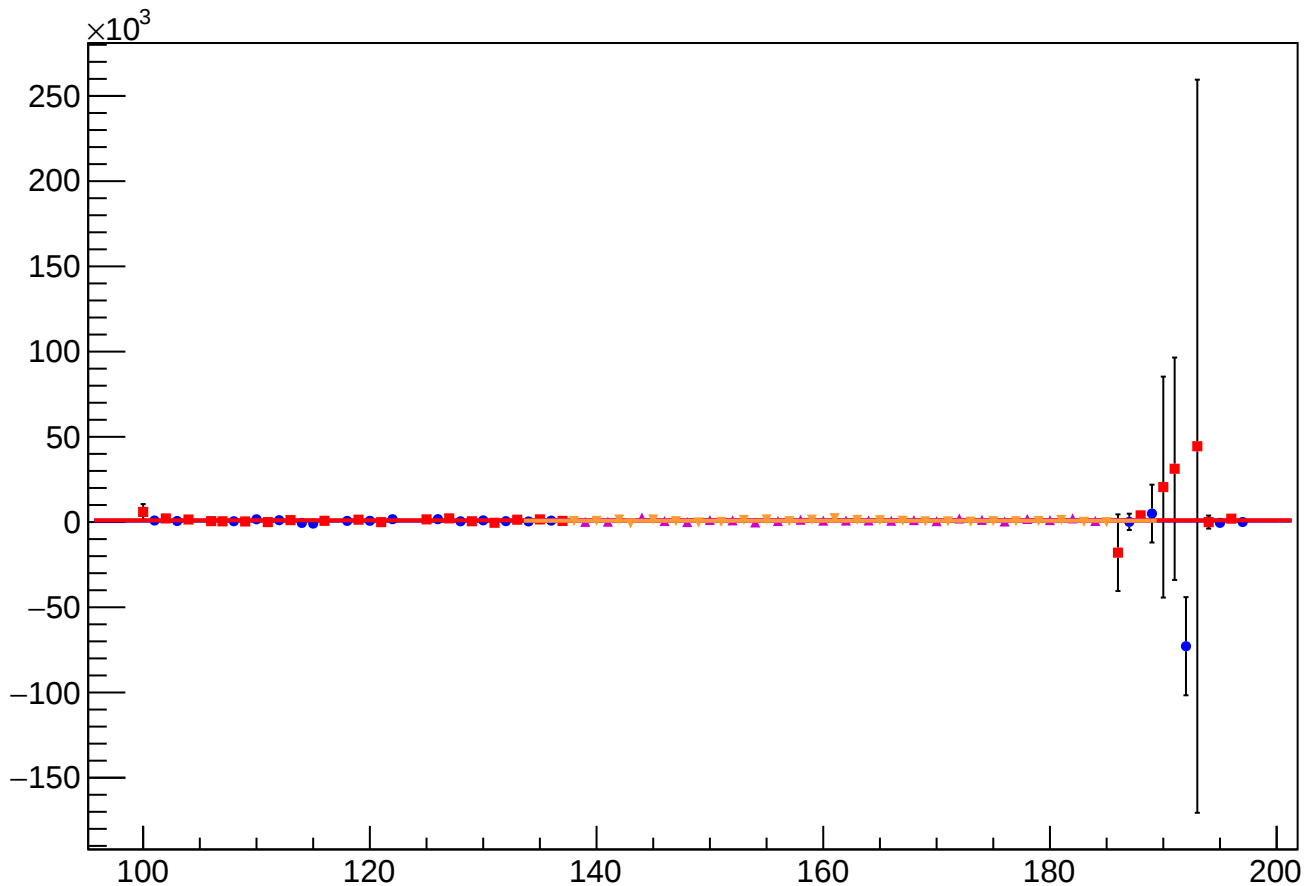
Right: 121.258 $\pm$ 0.024 χ^2 /NDF: 7756533.0/46

In: 131.230 $\pm$ 0.019 χ^2 /NDF:3890095.0/44

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

All: 132.544 $\pm$ 0.013 χ^2 /NDF: 8092424.9/94

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 822.991 $\pm$ 214.502 χ^2 /NDF: 12.3/20

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

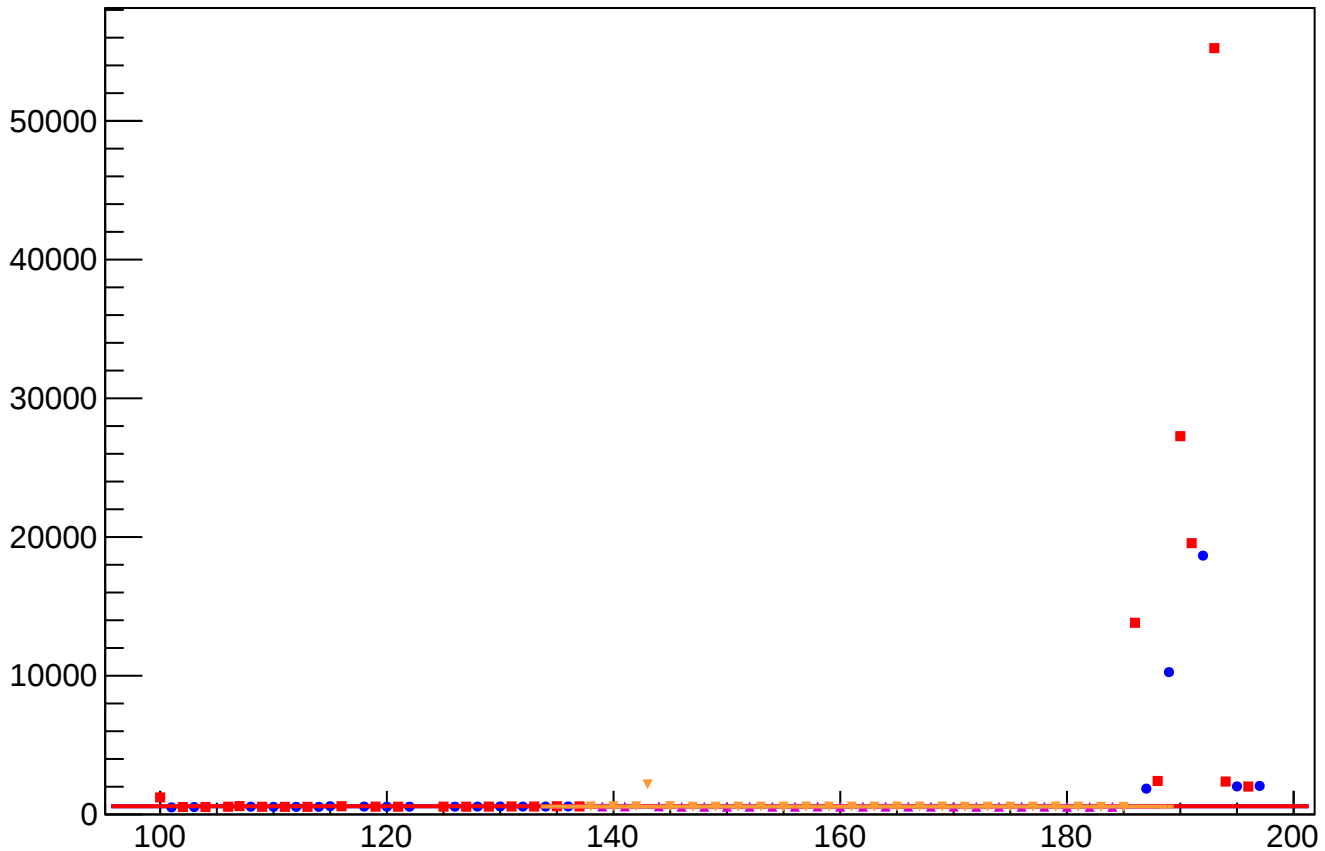
Right: 921.856 $\pm$ 150.566 χ^2 /NDF: 29.2/45

In: 931.475 $\pm$ 114.214 χ^2 /NDF: 40.1/43

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

All: 889.273 $\pm$ 80.361 χ^2 /NDF: 77.3/93

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 588.221+/-0.152 χ^2/NDF : 3259056.7/20

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

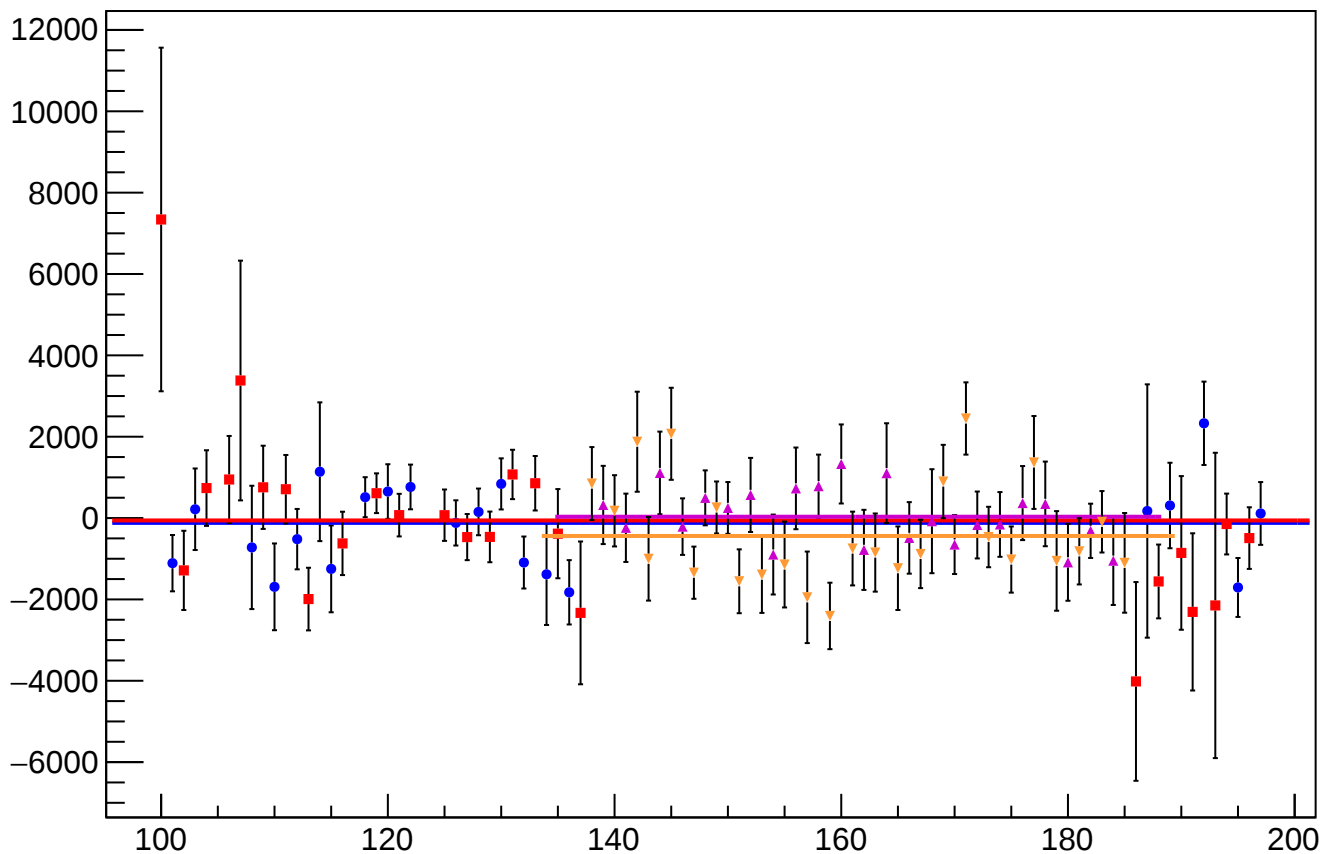
Right: 590.459+/-0.106 χ^2/NDF : 6742981.3/45

In: 571.141+/-0.081 χ^2/NDF : 3285963.2/43

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

All: 573.430+/-0.057 χ^2/NDF : 7642795.7/93

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -118.128+/-166.341 χ^2/NDF : 33.3/20

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

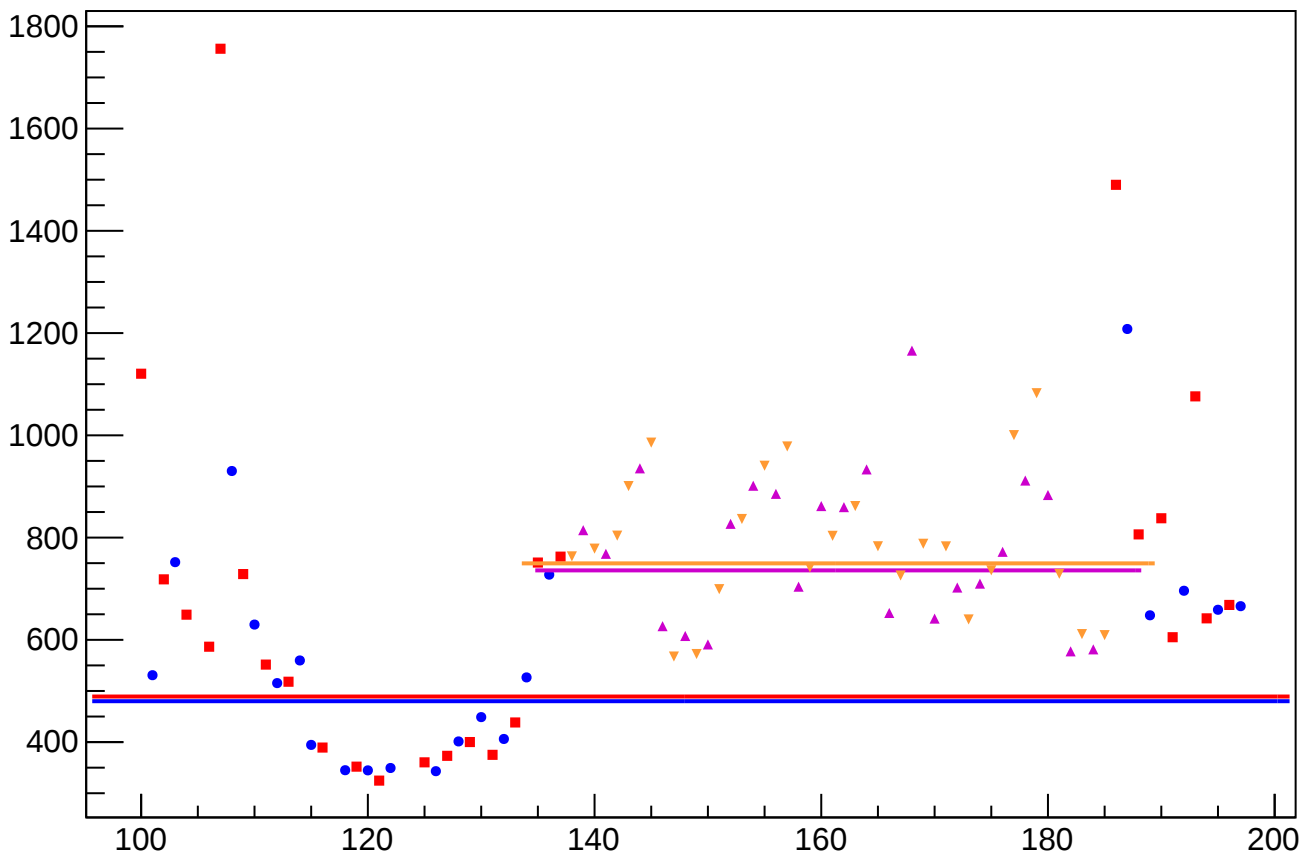
Right: -88.053+/-117.227 χ^2/NDF : 66.9/45

In: -48.549+/-121.986 χ^2/NDF : 45.9/43

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

All: -142.557+/-85.929 χ^2/NDF : 126.5/93

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 479.996 $\pm$ 0.118 χ^2/NDF : 1616954.5/20

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

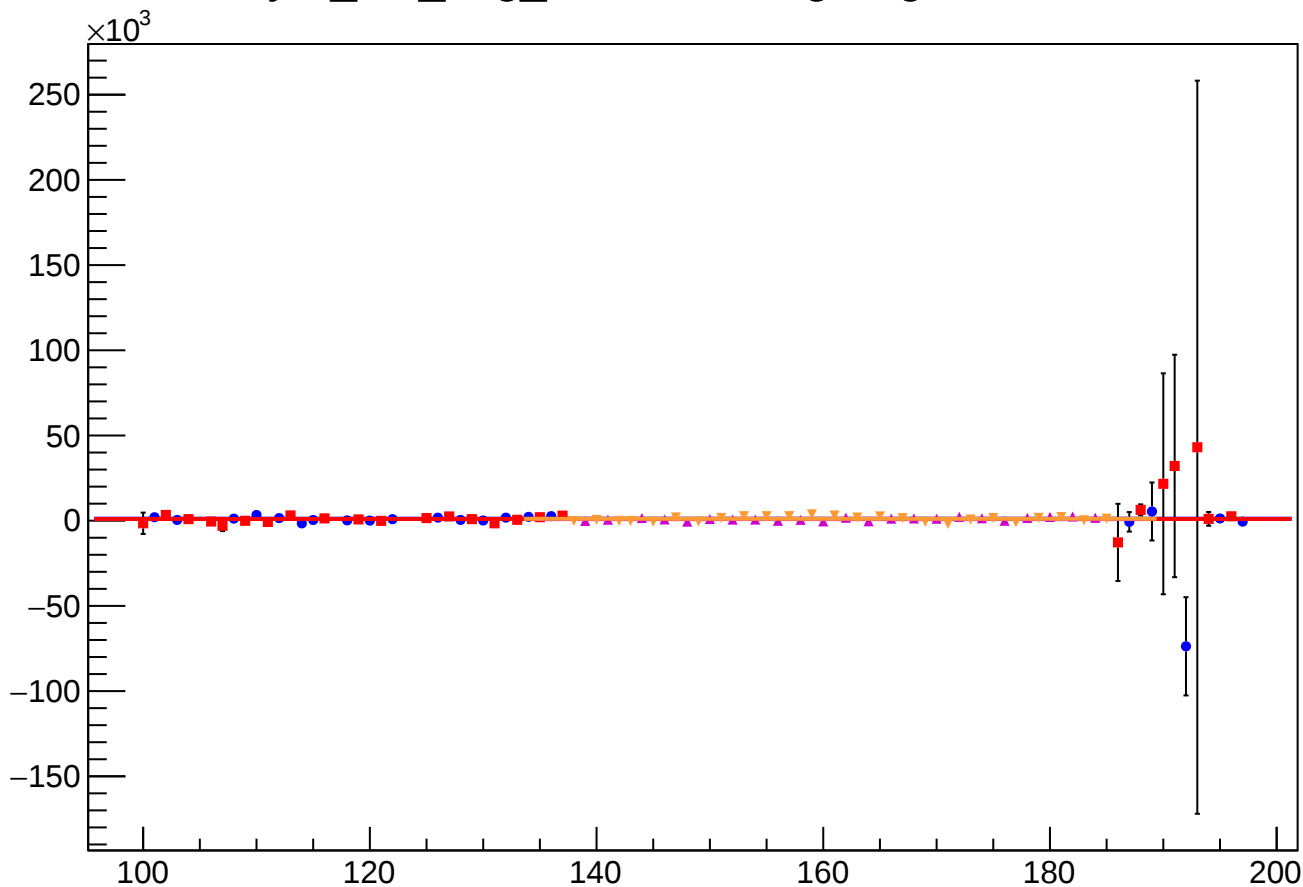
Right: 484.599 $\pm$ 0.083 χ^2/NDF : 4084953.4/45

In: 598.252 $\pm$ 0.086 χ^2/NDF : 4909333.9/43

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

All: 604.055 $\pm$ 0.061 χ^2/NDF : 10738139.0/93

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1163.111 $\pm$ 291.301 χ^2 /NDF: 19.1/20

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

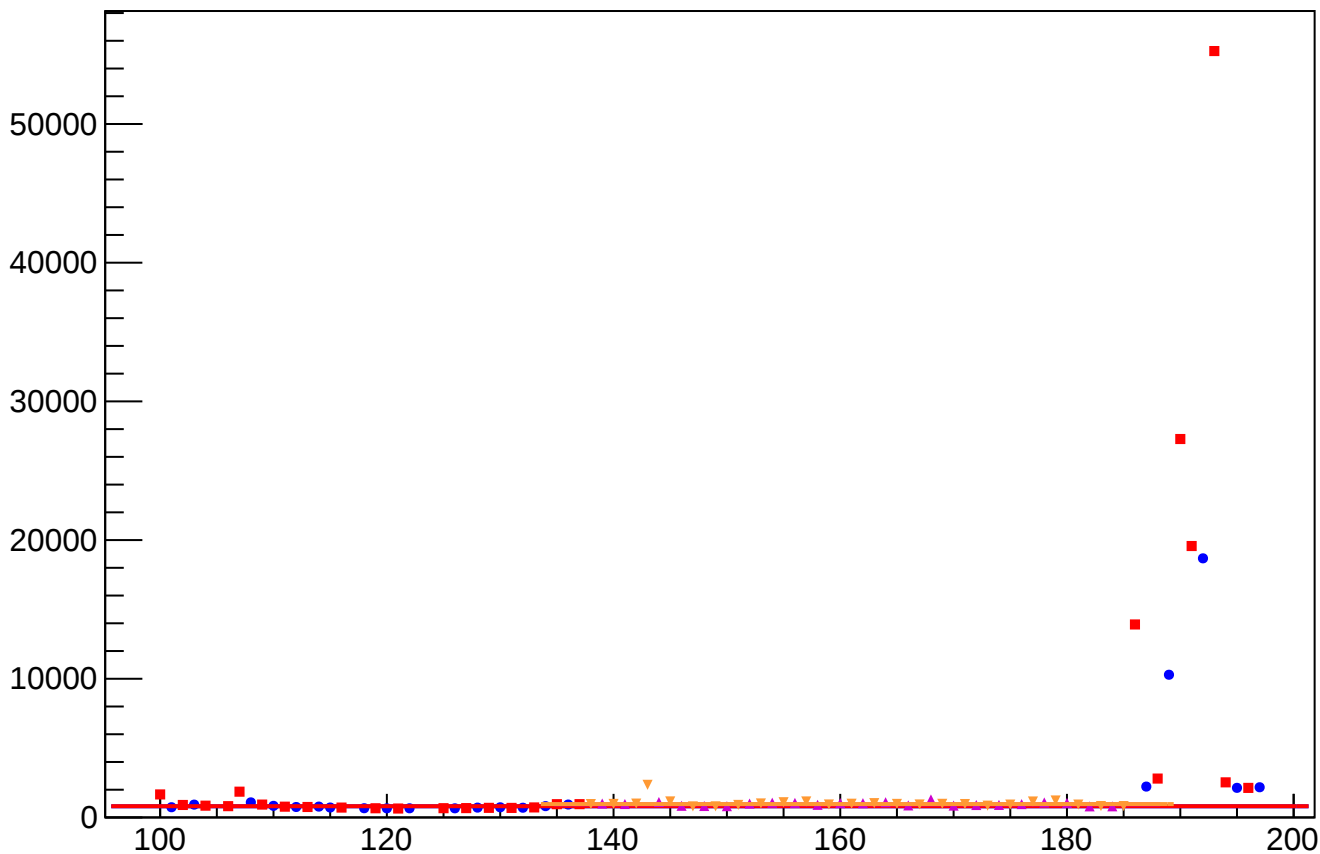
Right: 1086.252 $\pm$ 205.544 χ^2 /NDF: 46.3/45

In: 1025.960 $\pm$ 179.702 χ^2 /NDF: 34.3/43

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

All: 1054.714 $\pm$ 126.910 χ^2 /NDF: 100.6/93

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 803.104+/-0.206 χ^2/NDF : 3080465.9/20

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

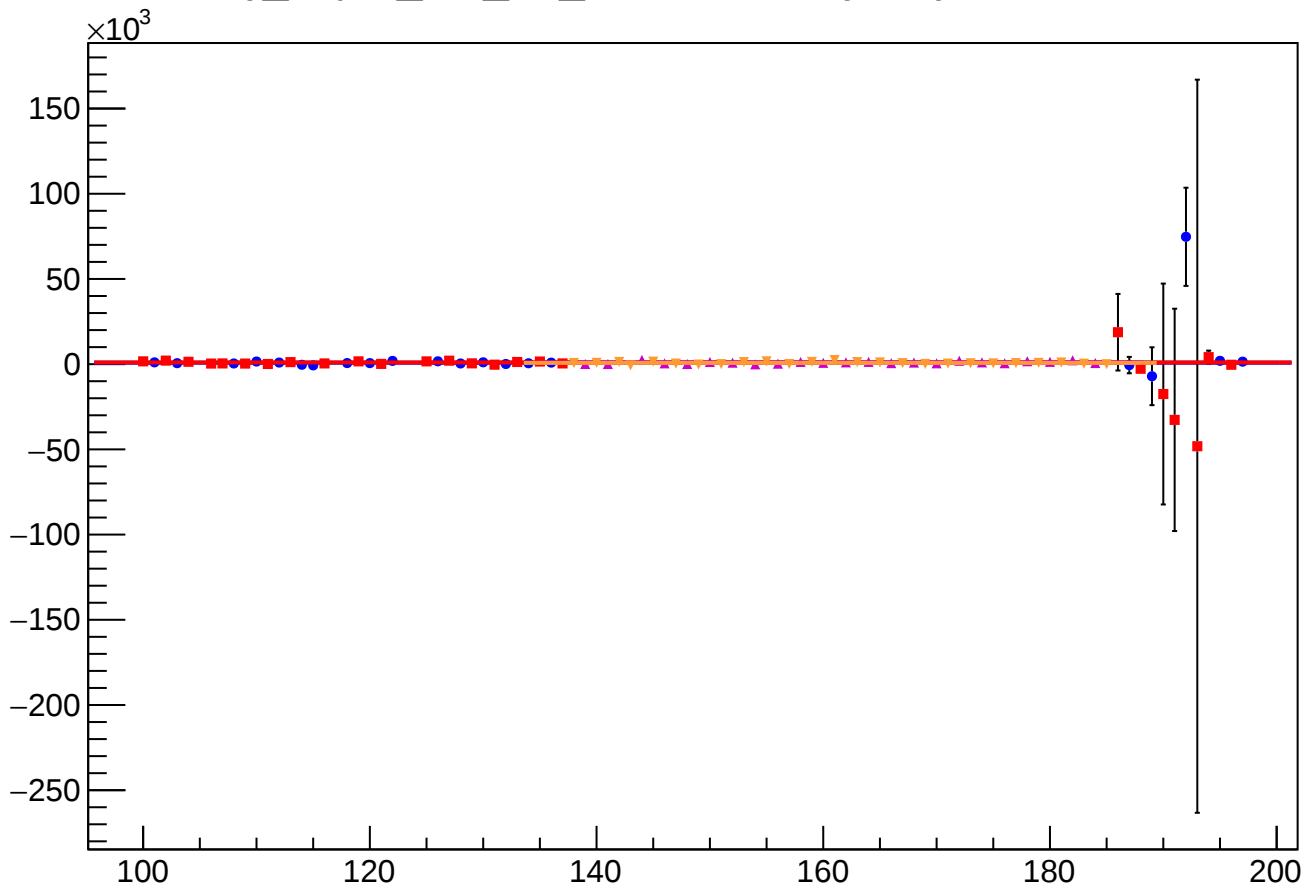
Right: 807.127+/-0.145 χ^2/NDF : 6691255.1/45

In: 891.975+/-0.127 χ^2/NDF : 3882344.2/43

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

All: 898.965+/-0.090 χ^2/NDF : 8846804.4/93

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 861.000 $\pm$ 214.347 χ^2 /NDF: 13.3/20

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

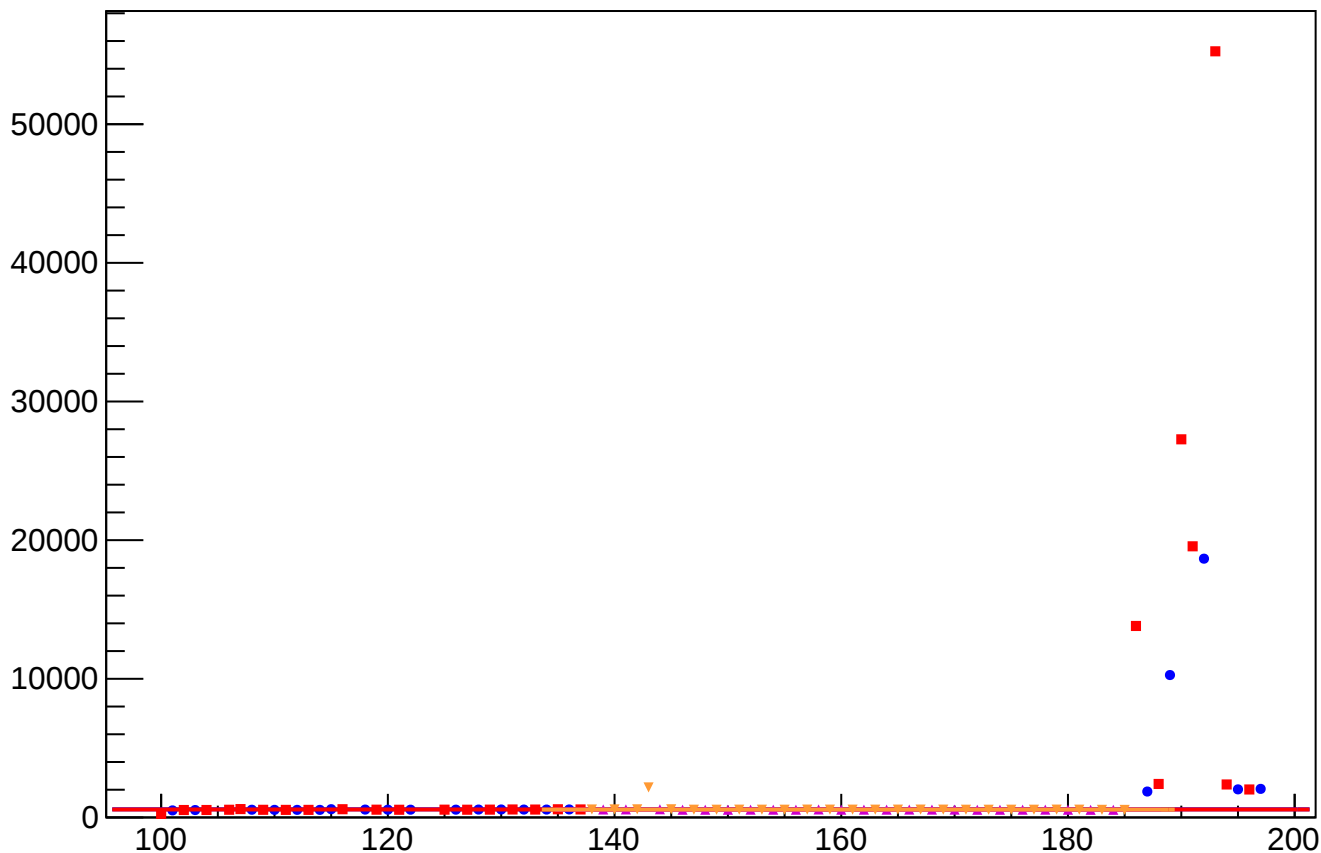
Right: 934.130 $\pm$ 148.713 χ^2 /NDF: 29.6/45

In: 930.872 $\pm$ 114.125 χ^2 /NDF:40.3/43

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

All: 877.979 $\pm$ 80.030 χ^2 /NDF: 79.2/93

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 587.714+/-0.152 χ^2/NDF : 3263743.4/20

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

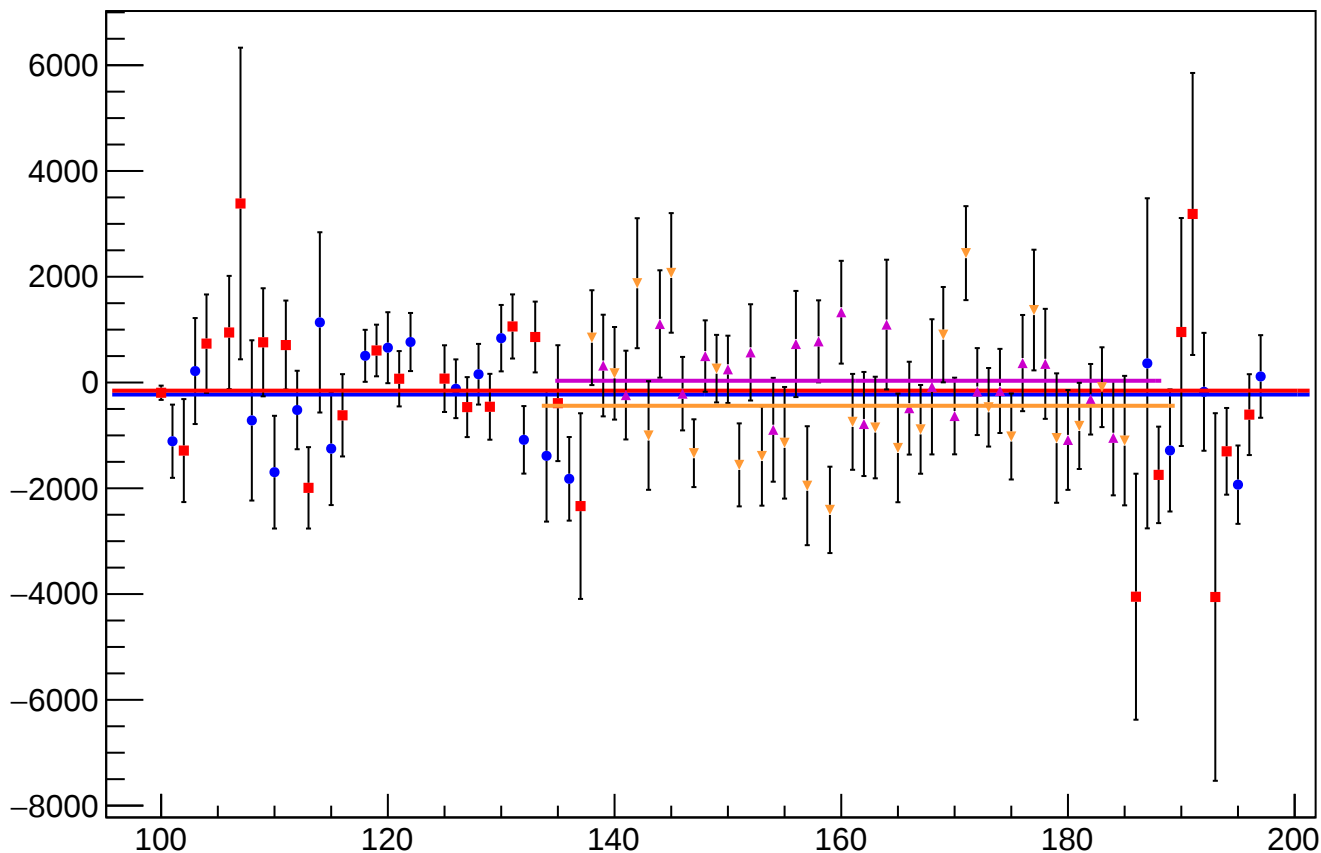
Right: 581.224+/-0.105 χ^2/NDF : 6951714.2/45

In: 570.675+/-0.081 χ^2/NDF : 3290585.7/43

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

All: 570.540+/-0.057 χ^2/NDF : 7830567.2/93

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -226.956 ± 167.258 $\chi^2/\text{NDF}: 29.2/20$

Left Out: -439.659 ± 177.808 $\chi^2/\text{NDF}: 43.6/24$

Right Out: -153.828 ± 104.832 $\chi^2/\text{NDF}: 35.2/24$

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

Left: -205.215 ± 126.273 $\chi^2/\text{NDF}: 59.2/47$

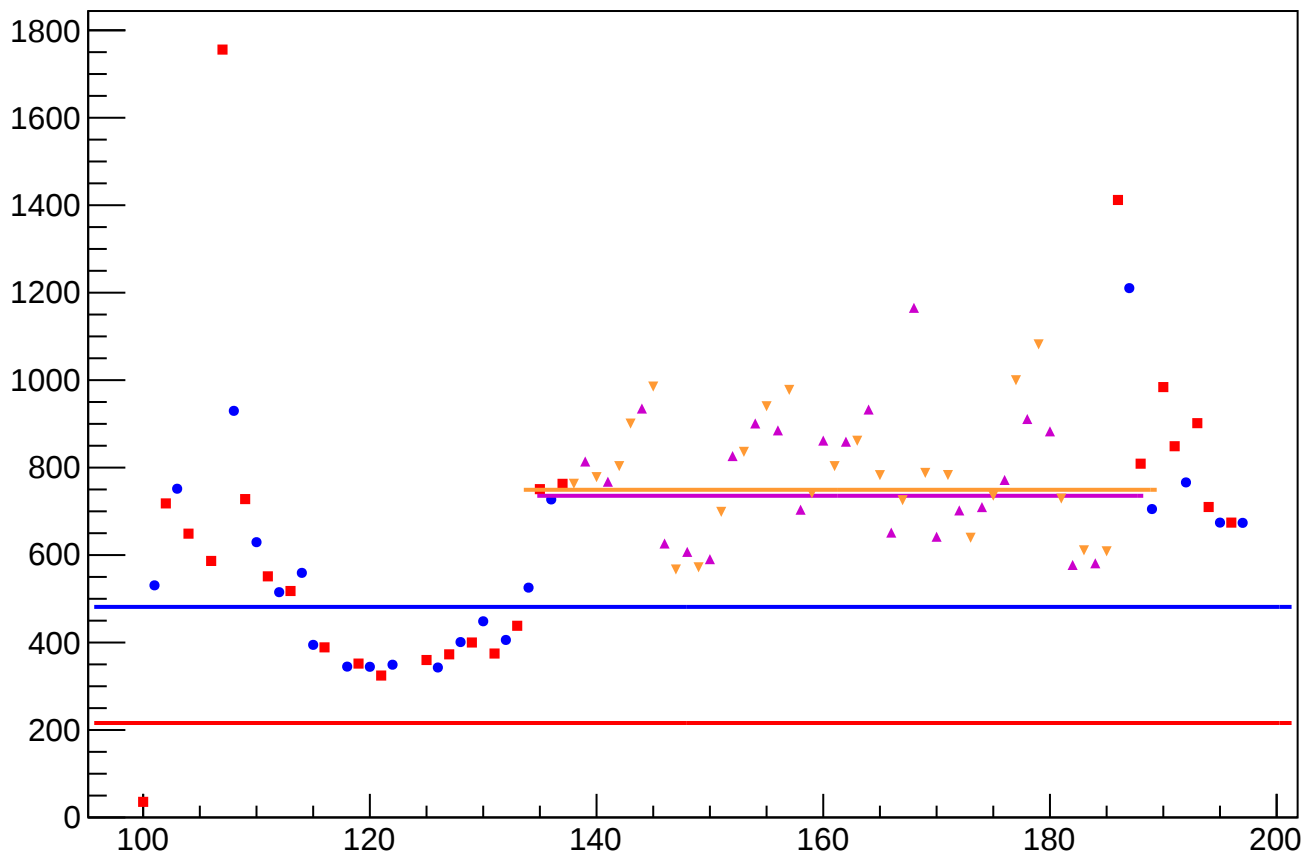
Right: -174.453 ± 88.827 $\chi^2/\text{NDF}: 64.6/45$

In: -105.888 ± 122.323 $\chi^2/\text{NDF}: 42.5/43$

Out: -227.556 ± 90.305 $\chi^2/\text{NDF}: 80.7/49$

All: -184.637 ± 72.652 $\chi^2/\text{NDF}: 123.8/93$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 481.466+/-0.118 χ^2/NDF : 1708448.1/20

Left Out: 749.270+/-0.126 χ^2/NDF : 1054352.9/24

Right Out: 215.985+/-0.074 χ^2/NDF : 11513209.9/24

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

Left: 742.466+/-0.089 χ^2/NDF : 2165483.4/47

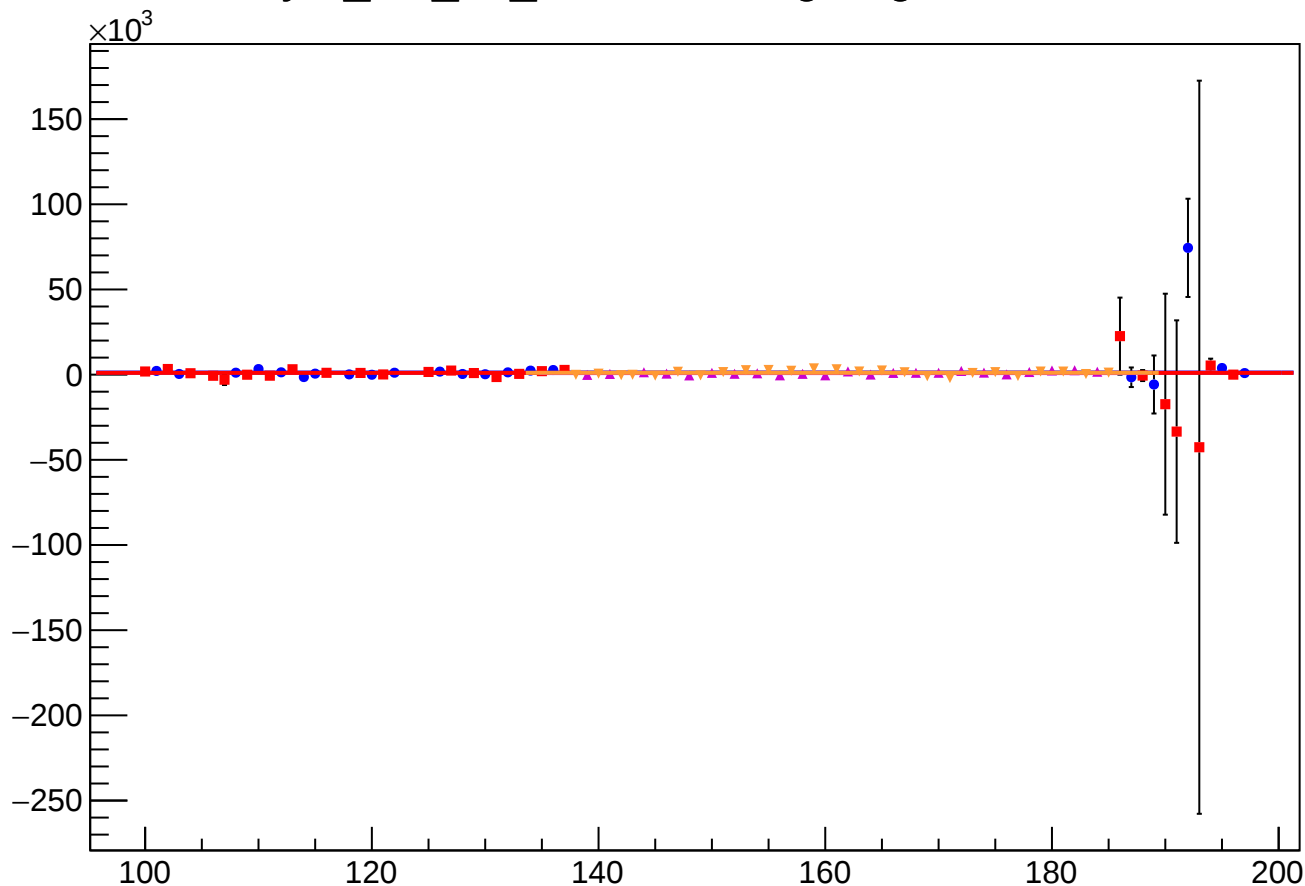
Right: 290.862+/-0.063 χ^2/NDF : 16839252.3/45

In: 599.648+/-0.086 χ^2/NDF : 4960362.6/43

Out: 353.542+/-0.064 χ^2/NDF : 25917542.5/49

All: 440.359+/-0.051 χ^2/NDF : 36117826.9/93

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1223.948 $\pm$ 291.141 χ^2 /NDF: 19.8/20

Left Out: 1096.531 $\pm$ 227.868 χ^2 /NDF: 38.4/24

Right Out: 1044.683 $\pm$ 278.006 χ^2 /NDF: 25.3/24

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

Left: 1011.528 $\pm$ 161.243 χ^2 /NDF: 53.8/47

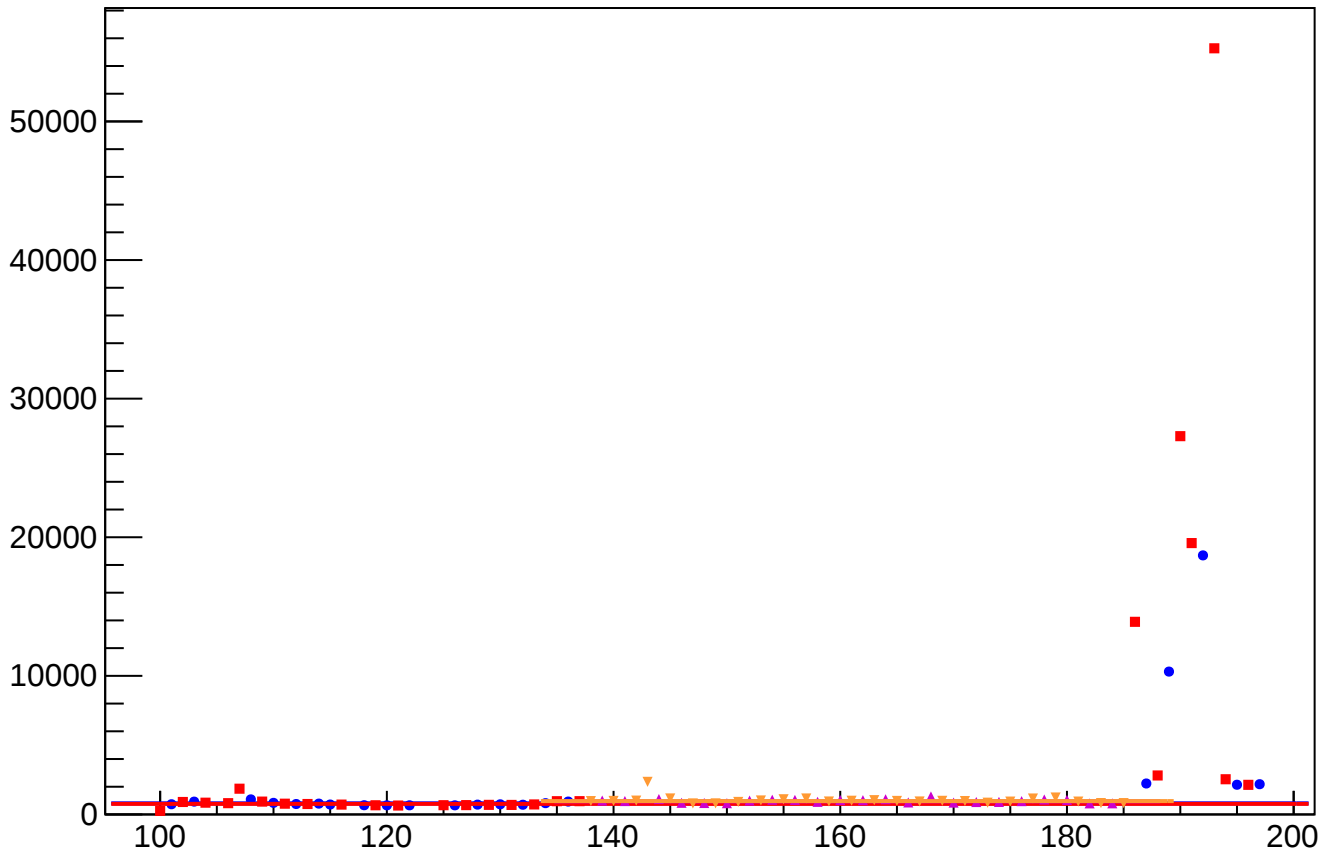
Right: 1130.181 $\pm$ 201.063 χ^2 /NDF: 45.3/45

In: 1039.559 $\pm$ 179.602 χ^2 /NDF: 35.6/43

Out: 1075.696 $\pm$ 176.233 χ^2 /NDF: 63.8/49

All: 1057.969 $\pm$ 125.790 χ^2 /NDF: 99.4/93

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 802.477+/-0.206 χ^2/NDF : 3087784.7/20

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

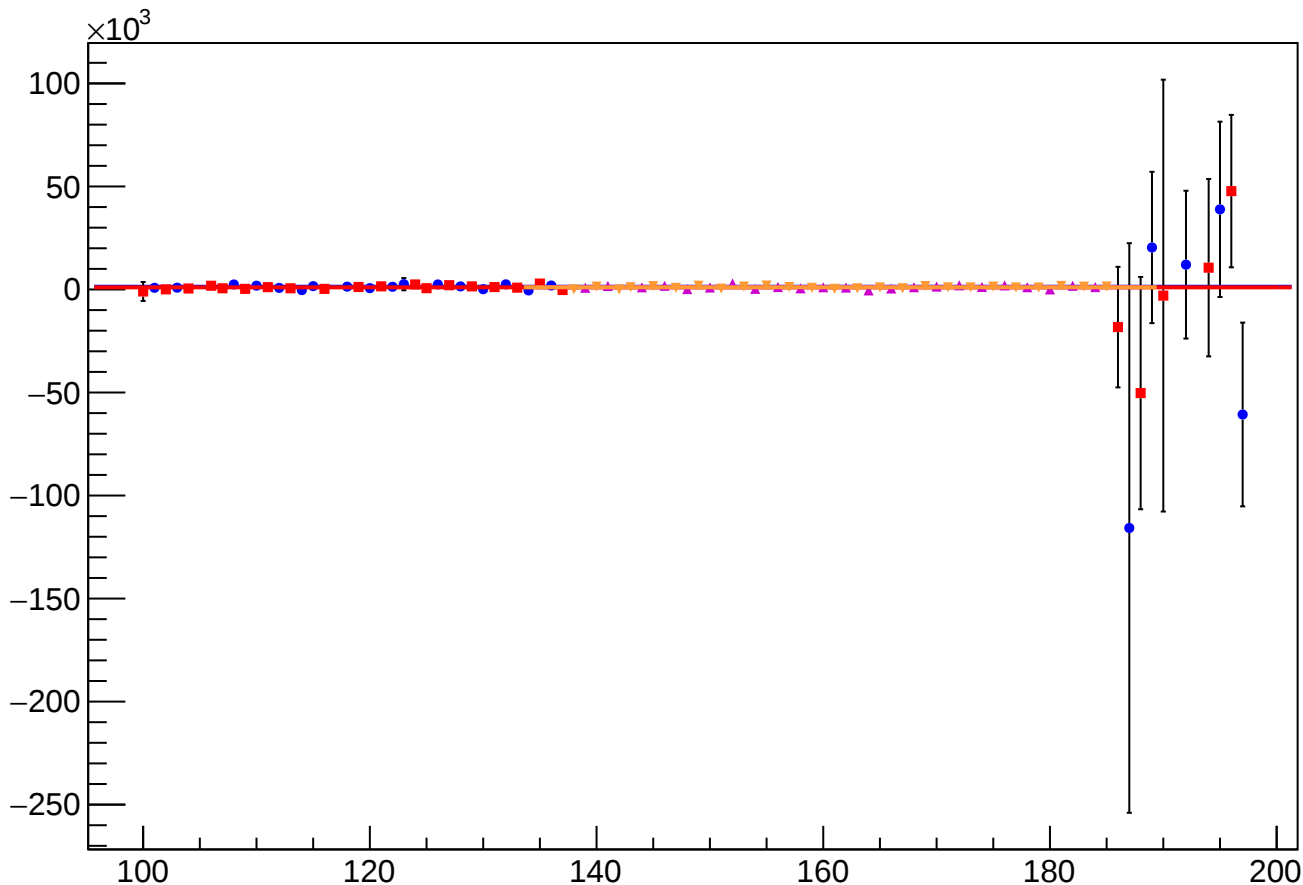
Right: 781.962+/-0.142 χ^2/NDF : 7281827.3/45

In: 891.407+/-0.127 χ^2/NDF : 3890471.7/43

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

All: 887.272+/-0.089 χ^2/NDF : 9694039.8/93

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.334 $\pm$ 218.586 χ^2 /NDF: 16.6/21

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

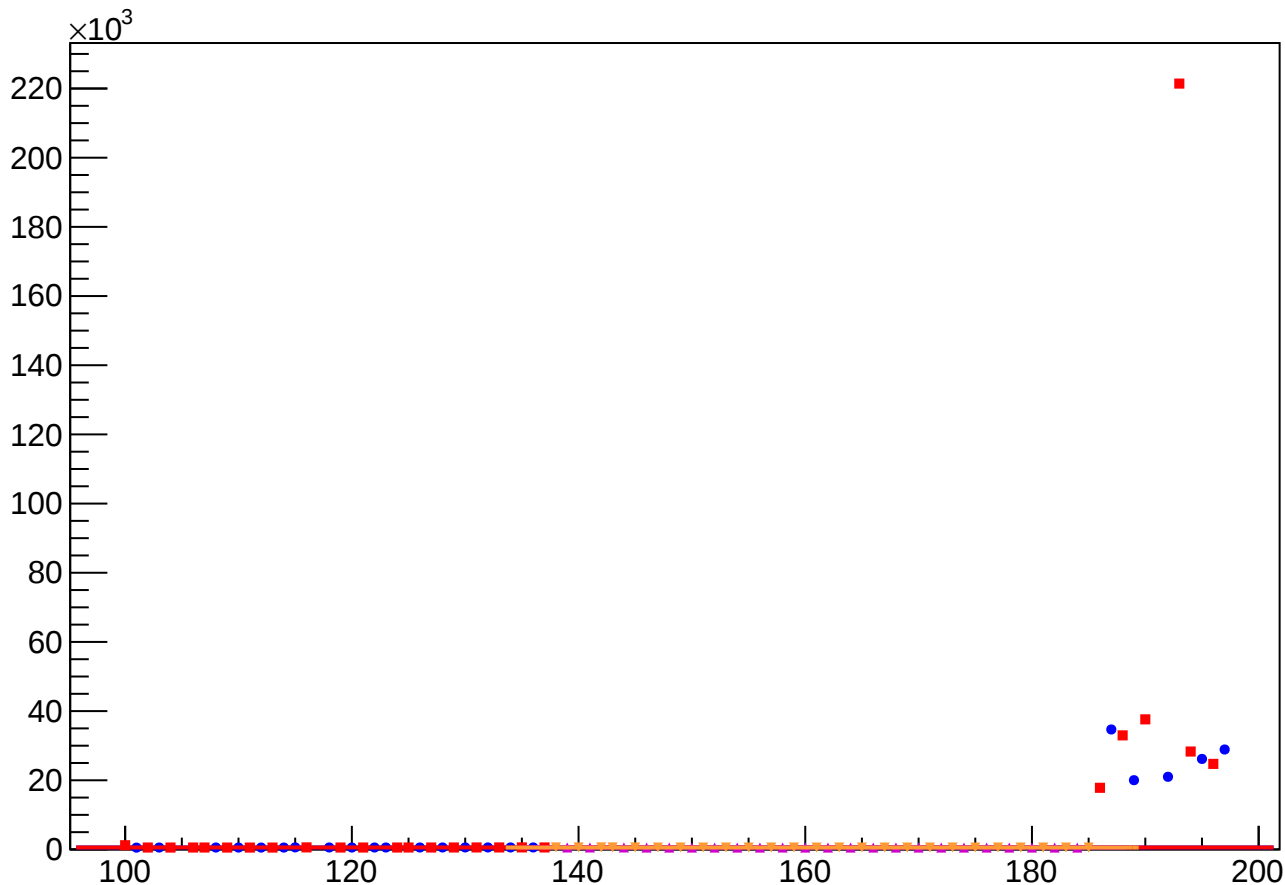
Right: 1178.126 $\pm$ 152.206 χ^2 /NDF: 33.8/45

In: 1178.120 $\pm$ 113.722 χ^2 /NDF:47.2/44

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

All: 1119.807 $\pm$ 79.302 χ^2 /NDF: 79.3/93

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 566.433 $\pm$ 0.155 χ^2 /NDF: 2899931.6/21

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

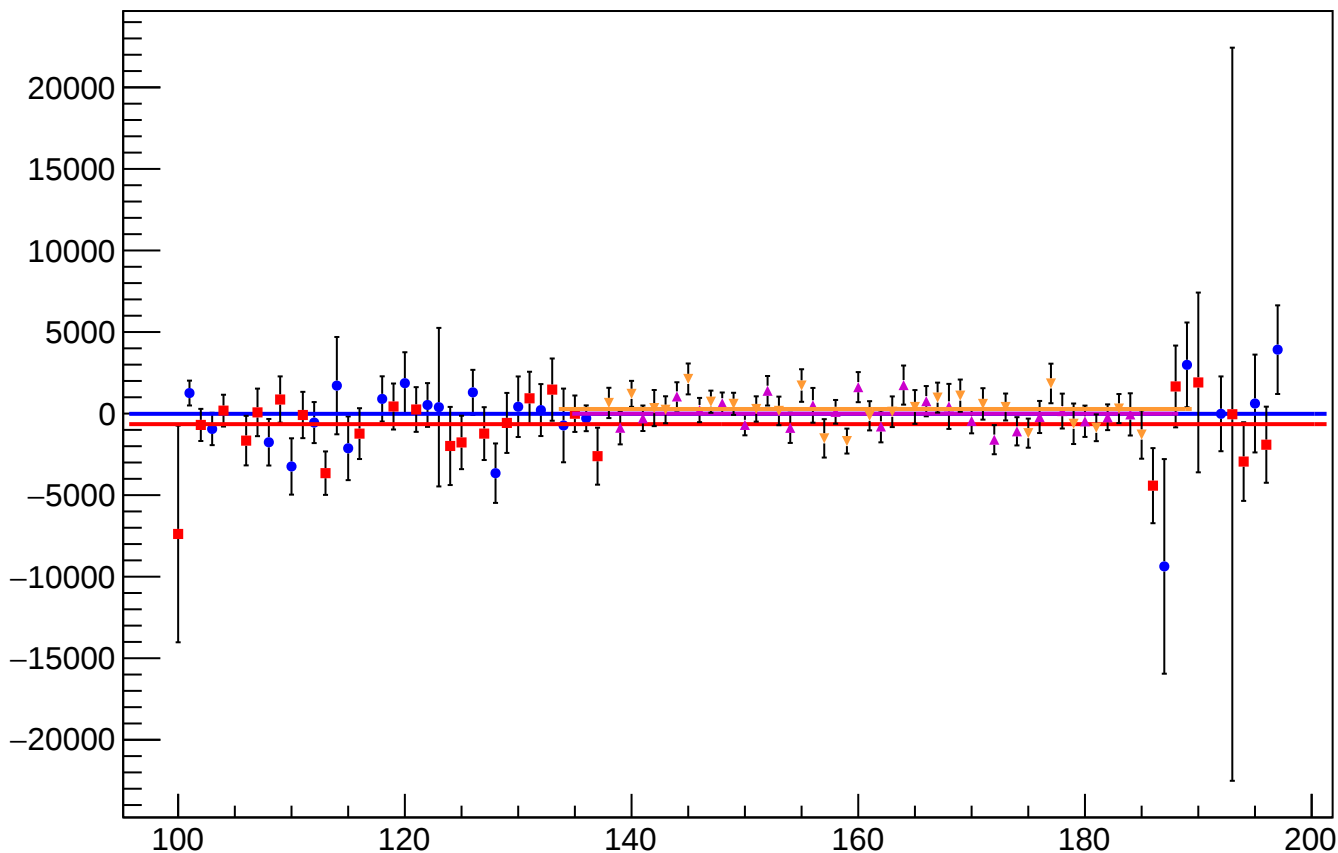
Right: 567.424 $\pm$ 0.108 χ^2 /NDF: 6400602.1/46

In: 559.531 $\pm$ 0.080 χ^2 /NDF: 2913875.5/44

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

All: 560.018 $\pm$ 0.056 χ^2 /NDF: 6433081.6/94

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -15.180 ± 318.013 $\chi^2/\text{NDF}: 22.6/21$

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 $\chi^2/\text{NDF}: 48.2/47$

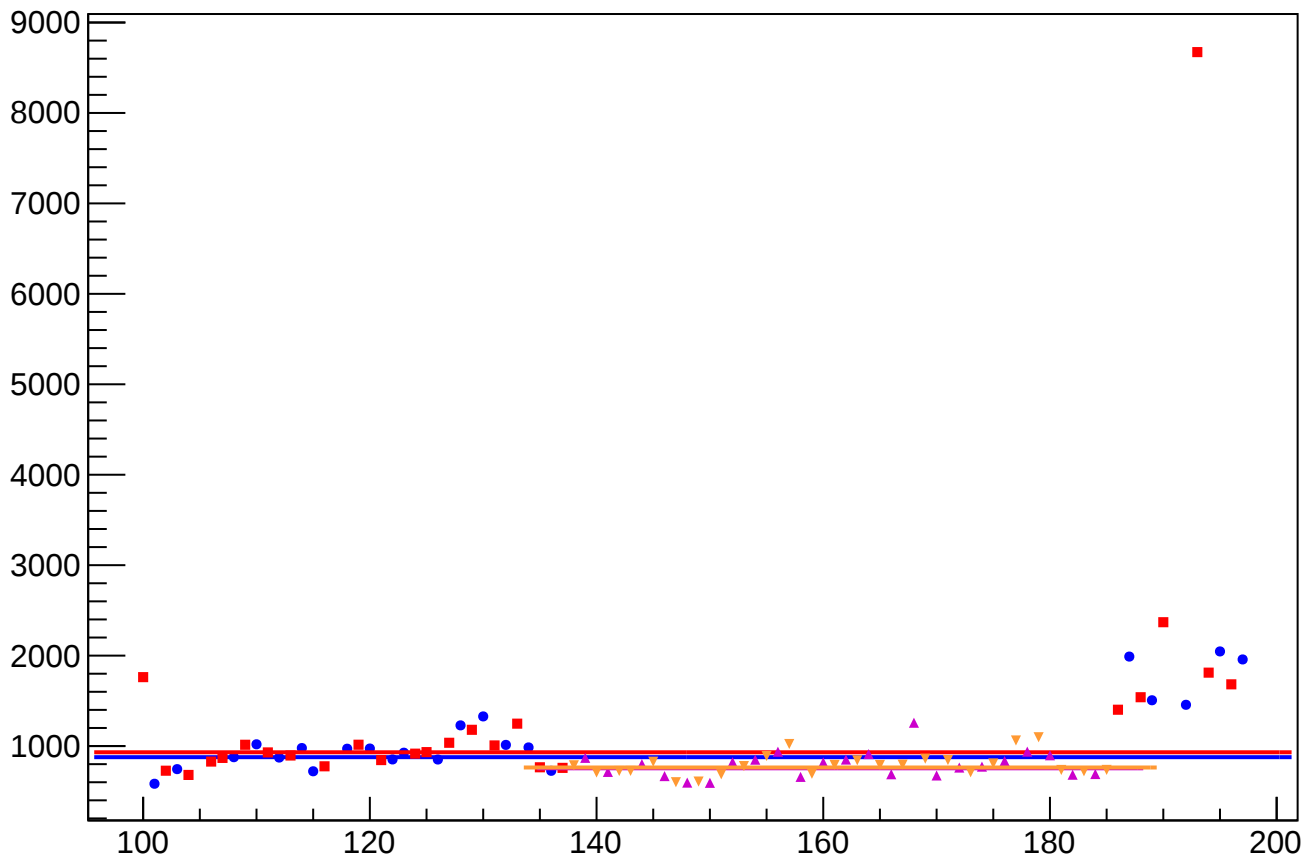
Right: -329.377 ± 225.615 $\chi^2/\text{NDF}: 44.2/46$

In: -9.950 ± 158.861 $\chi^2/\text{NDF}: 42.8/44$

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

All: 24.270 ± 111.733 $\chi^2/\text{NDF}: 95.6/94$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 877.131+/-0.225 χ^2/NDF : 1584197.4/21

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

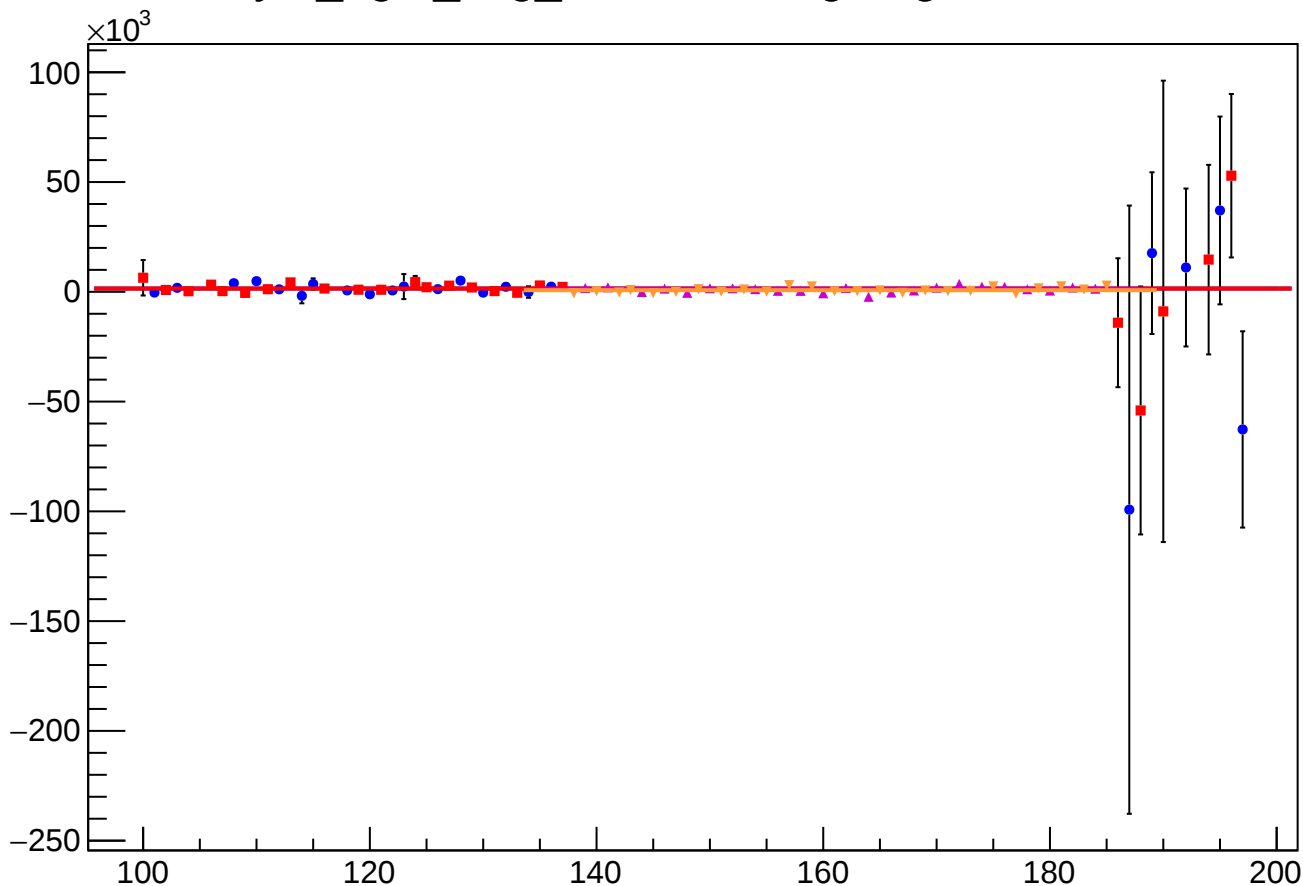
Right: 904.017+/-0.160 χ^2/NDF : 3136754.9/46

In: 784.801+/-0.112 χ^2/NDF : 2740675.4/44

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

All: 794.314+/-0.079 χ^2/NDF : 5451250.5/94

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1498.191 $\pm$ 402.582 χ^2 /NDF: 20.7/21

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

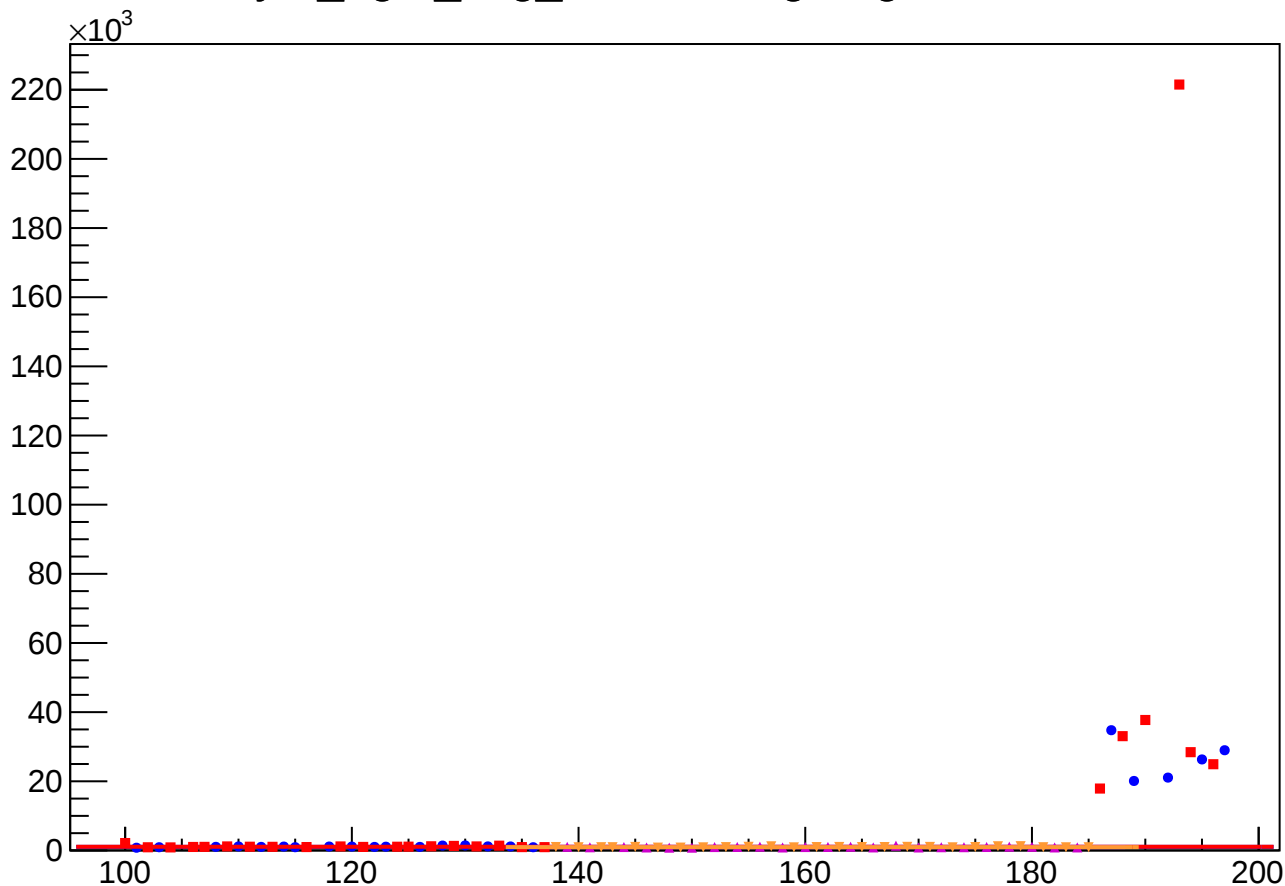
Right: 1493.572 $\pm$ 283.975 χ^2 /NDF: 35.9/45

In: 1216.562 $\pm$ 199.748 χ^2 /NDF:46.7/44

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

All: 1065.862 $\pm$ 140.093 χ^2 /NDF: 87.2/93

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1031.661 $\pm$ 0.285 χ^2 /NDF: 3115476.5/21

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

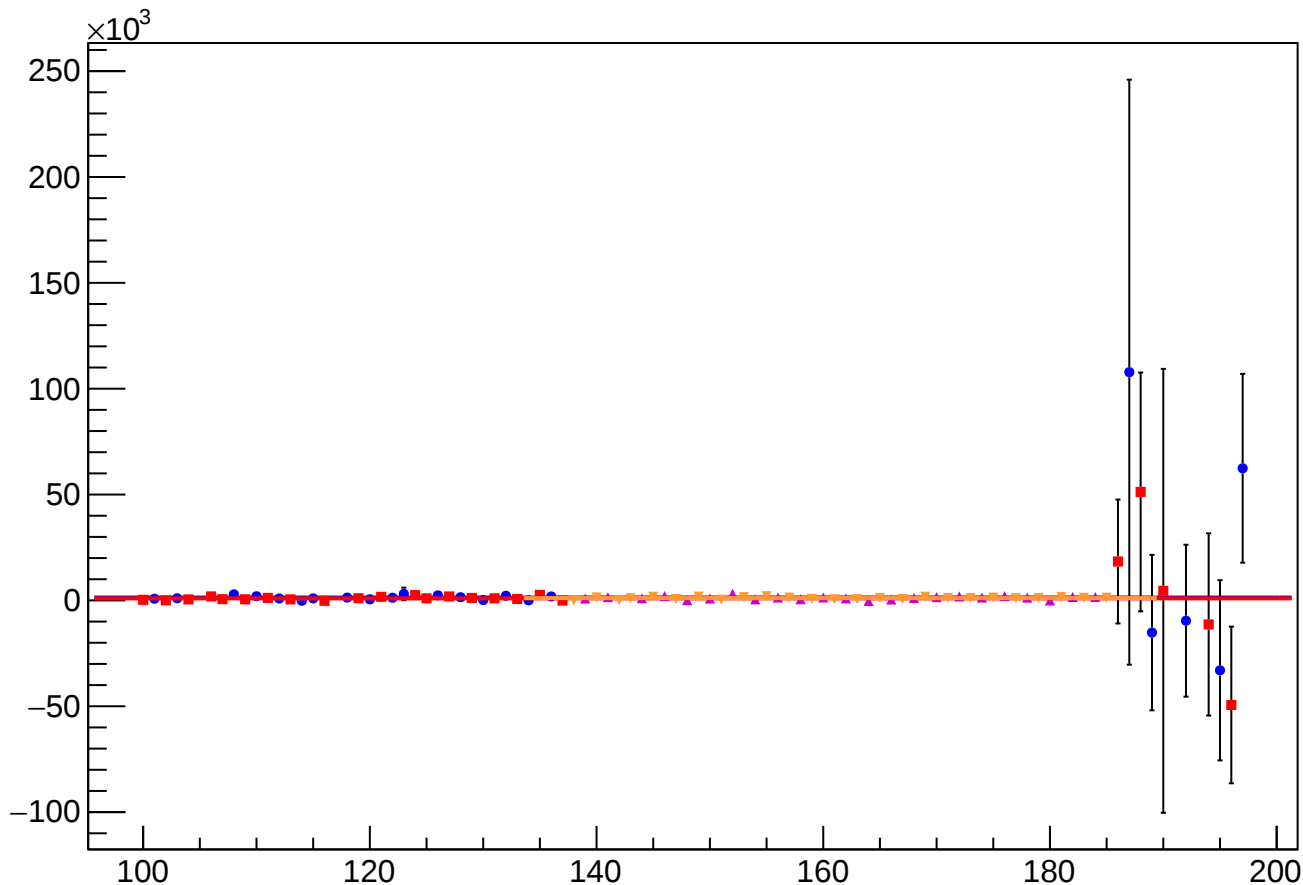
Right: 1050.146 $\pm$ 0.201 χ^2 /NDF: 6681096.7/46

In: 973.604 $\pm$ 0.141 χ^2 /NDF: 3614049.6/44

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

All: 980.823 $\pm$ 0.099 χ^2 /NDF: 7646068.9/94

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1345.236 $\pm$ 218.841 χ^2 /NDF: 15.4/21

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

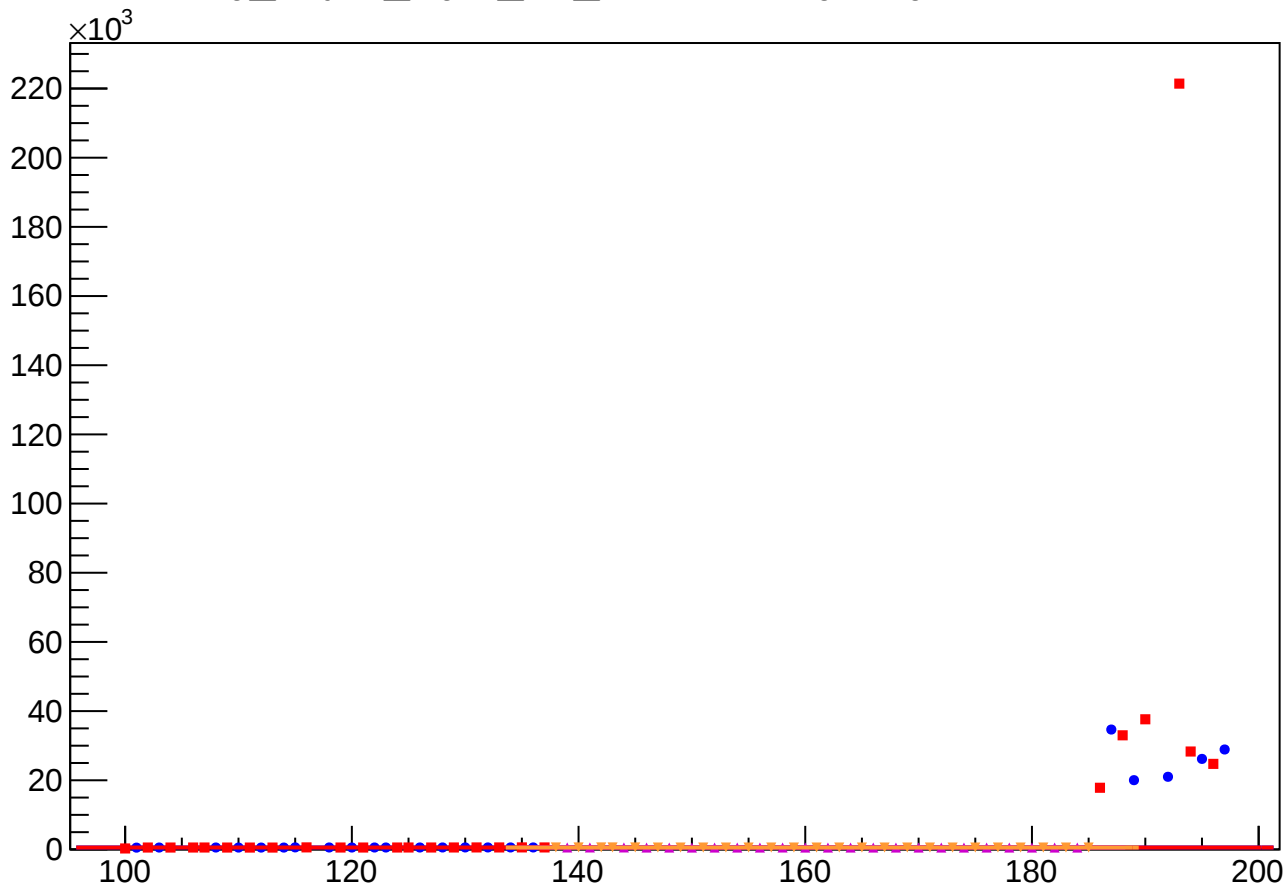
Right: 1146.085 $\pm$ 150.993 χ^2 /NDF: 32.3/45

In: 1231.638 $\pm$ 113.852 χ^2 /NDF:47.9/44

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

All: 1139.646 $\pm$ 79.190 χ^2 /NDF: 79.7/93

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 567.091 $\pm$ 0.155 χ^2 /NDF: 2900003.1/21

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

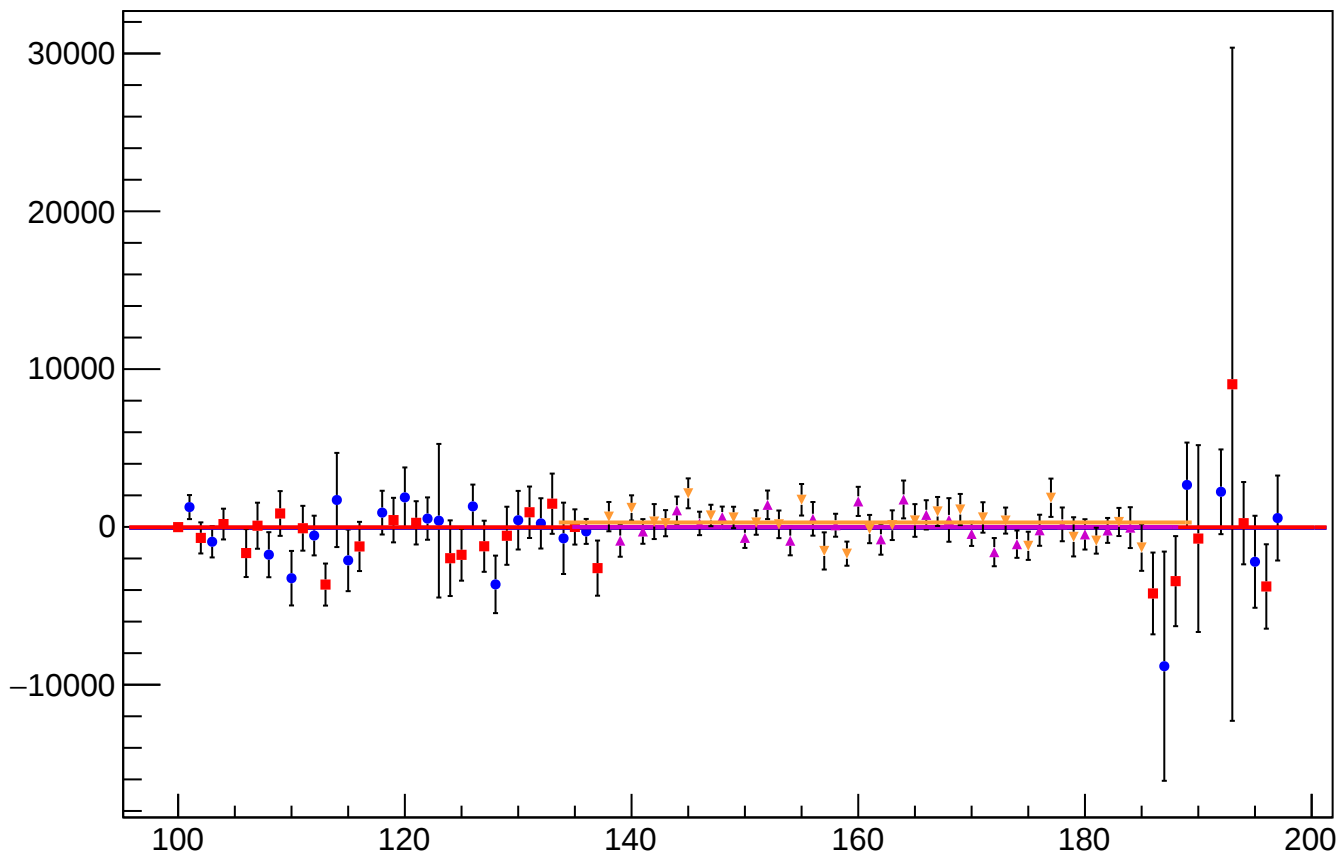
Right: 562.011 $\pm$ 0.107 χ^2 /NDF: 6488869.5/46

In: 560.166 $\pm$ 0.081 χ^2 /NDF: 2914025.8/44

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

All: 558.998 $\pm$ 0.056 χ^2 /NDF: 6516044.6/94

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -63.376 ± 319.009 χ^2/NDF : 20.8/21

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

Right Out: -22.402 ± 38.938 χ^2/NDF : 22.1/24

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

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

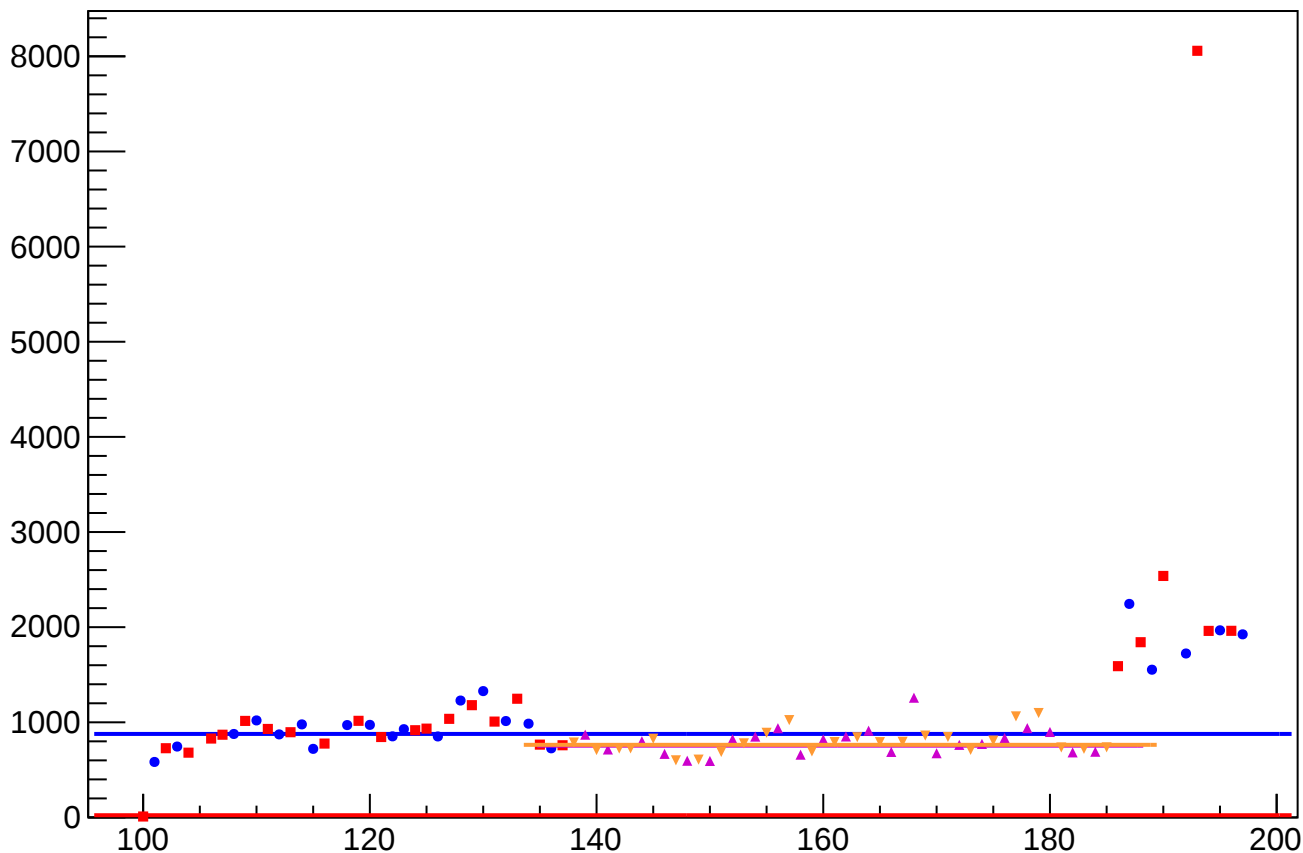
Right: -23.004 ± 38.651 χ^2/NDF : 43.0/46

In: -21.243 ± 159.045 χ^2/NDF : 41.0/44

Out: -8.890 ± 38.062 χ^2/NDF : 51.6/49

All: -9.559 ± 37.017 χ^2/NDF : 92.6/94

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 877.847 $\pm$ 0.226 χ^2 /NDF: 1639895.1/21

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

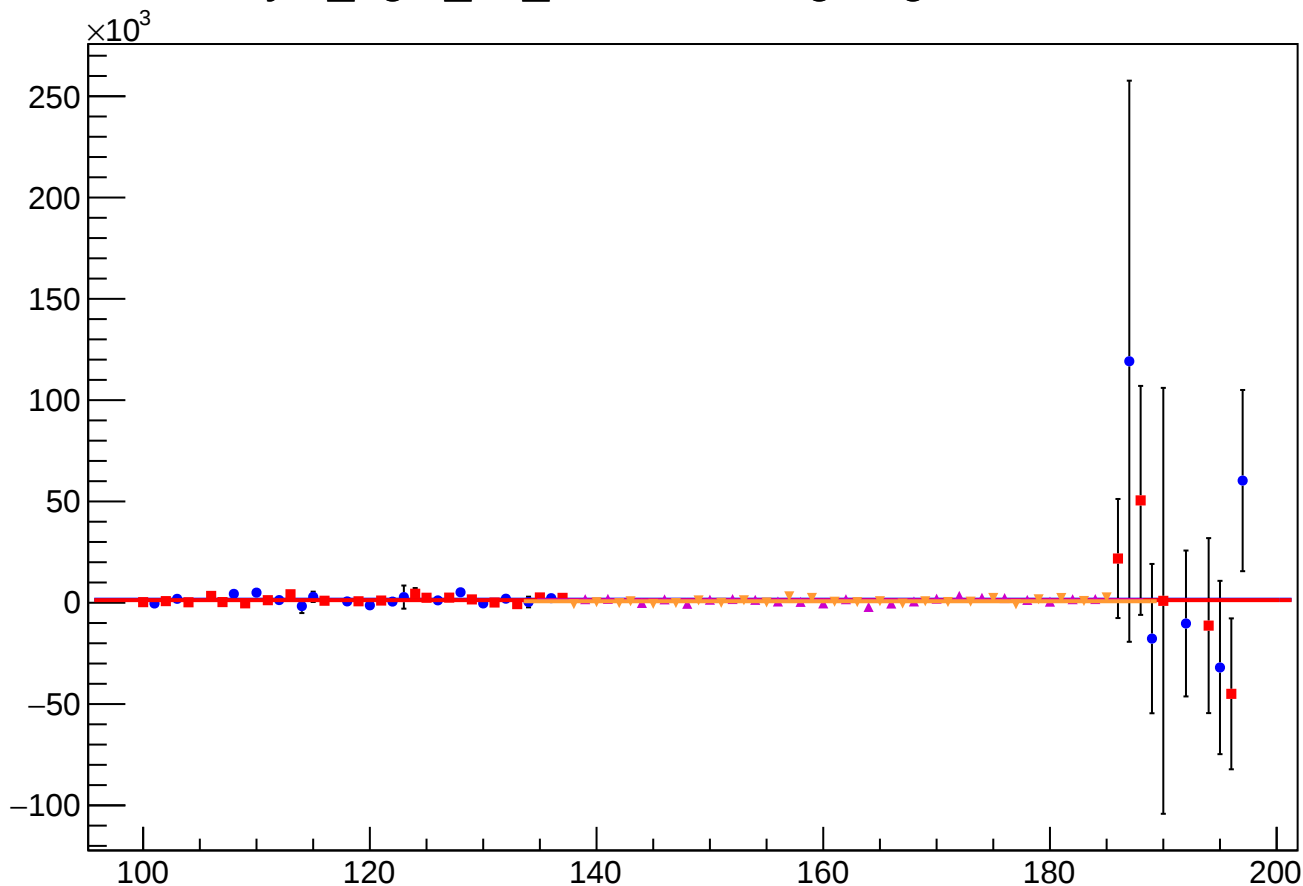
Right: 35.986 $\pm$ 0.027 χ^2 /NDF: 33602894.3/46

In: 785.146 $\pm$ 0.112 χ^2 /NDF: 2796180.7/44

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

All: 95.829 $\pm$ 0.026 χ^2 /NDF: 93213809.3/94

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1518.514 $\pm$ 402.805 χ^2 /NDF: 21.2/21

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

Right Out: 1287.409 $\pm$ 376.604 χ^2 /NDF: 15.2/23

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

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

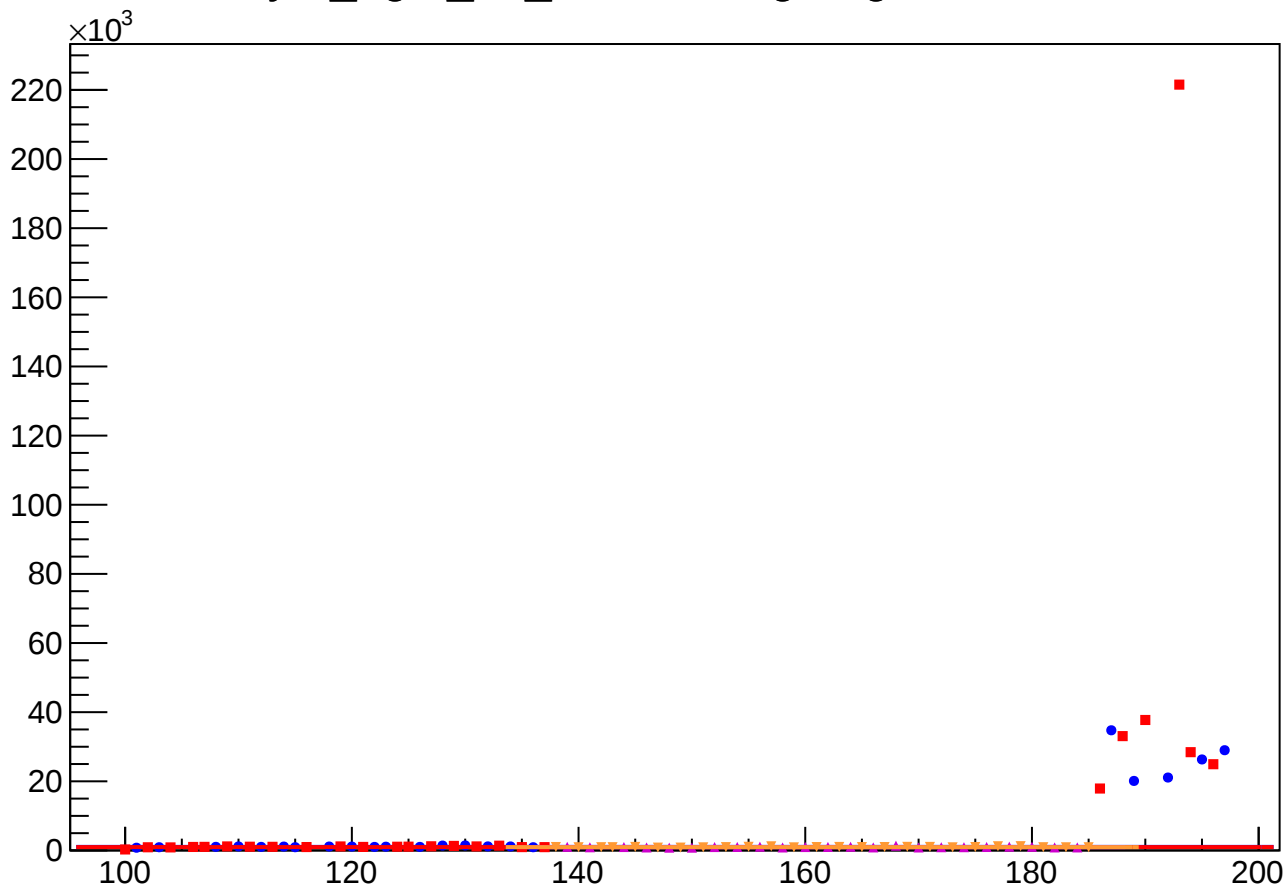
Right: 1395.201 $\pm$ 275.096 χ^2 /NDF: 36.6/45

In: 1260.558 $\pm$ 199.883 χ^2 /NDF: 46.0/44

Out: 886.694 $\pm$ 193.569 χ^2 /NDF: 37.0/48

All: 1067.628 $\pm$ 139.053 χ^2 /NDF: 84.8/93

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1032.239+/-0.285 χ^2/NDF : 3115627.6/21

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

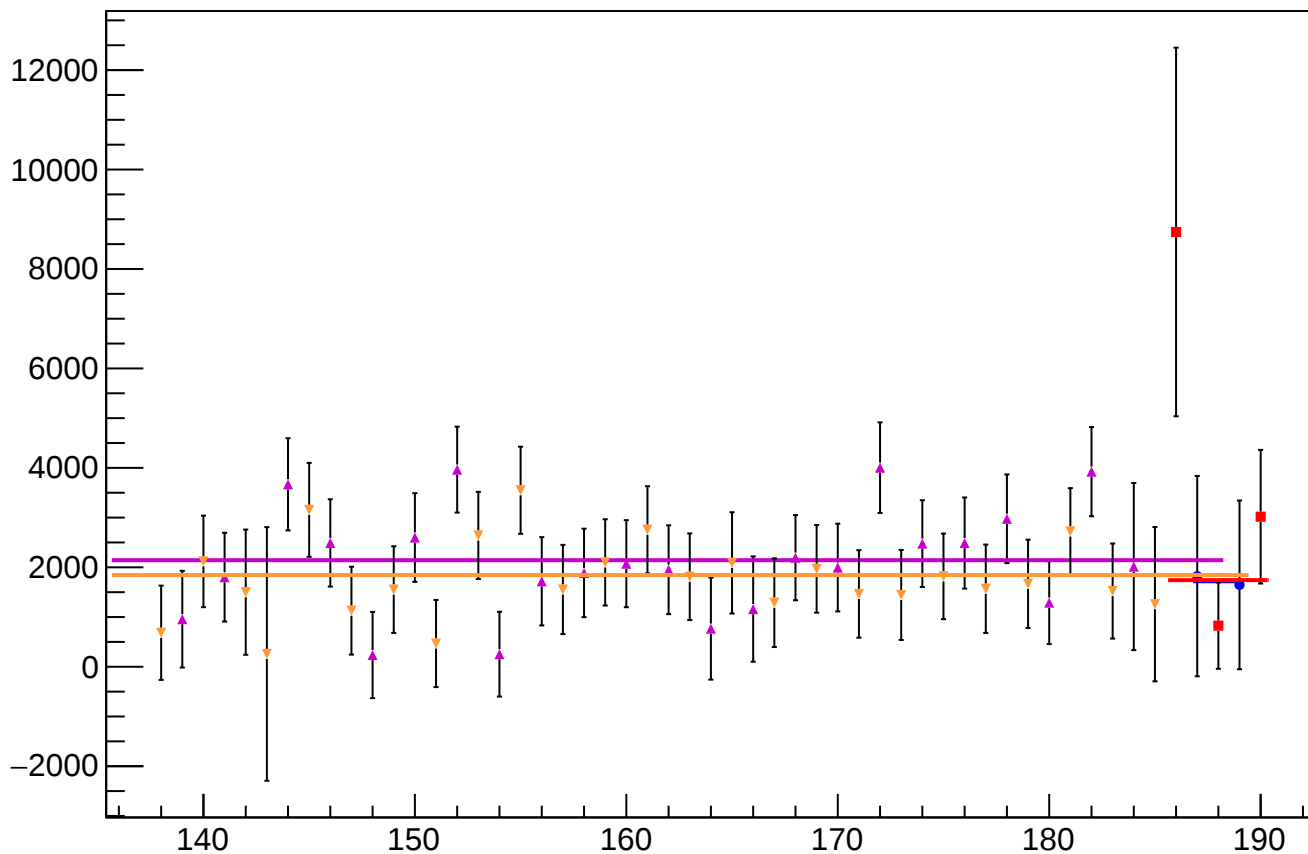
Right: 1000.900+/-0.195 χ^2/NDF : 7556581.7/46

In: 974.269+/-0.141 χ^2/NDF : 3613652.6/44

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

All: 969.801+/-0.098 χ^2/NDF : 8397887.5/94

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1844.361 $\pm$ 186.909 χ^2 /NDF:15.4/24

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

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

Left: 1991.243 $\pm$ 133.294 χ^2 /NDF: 49.0/47

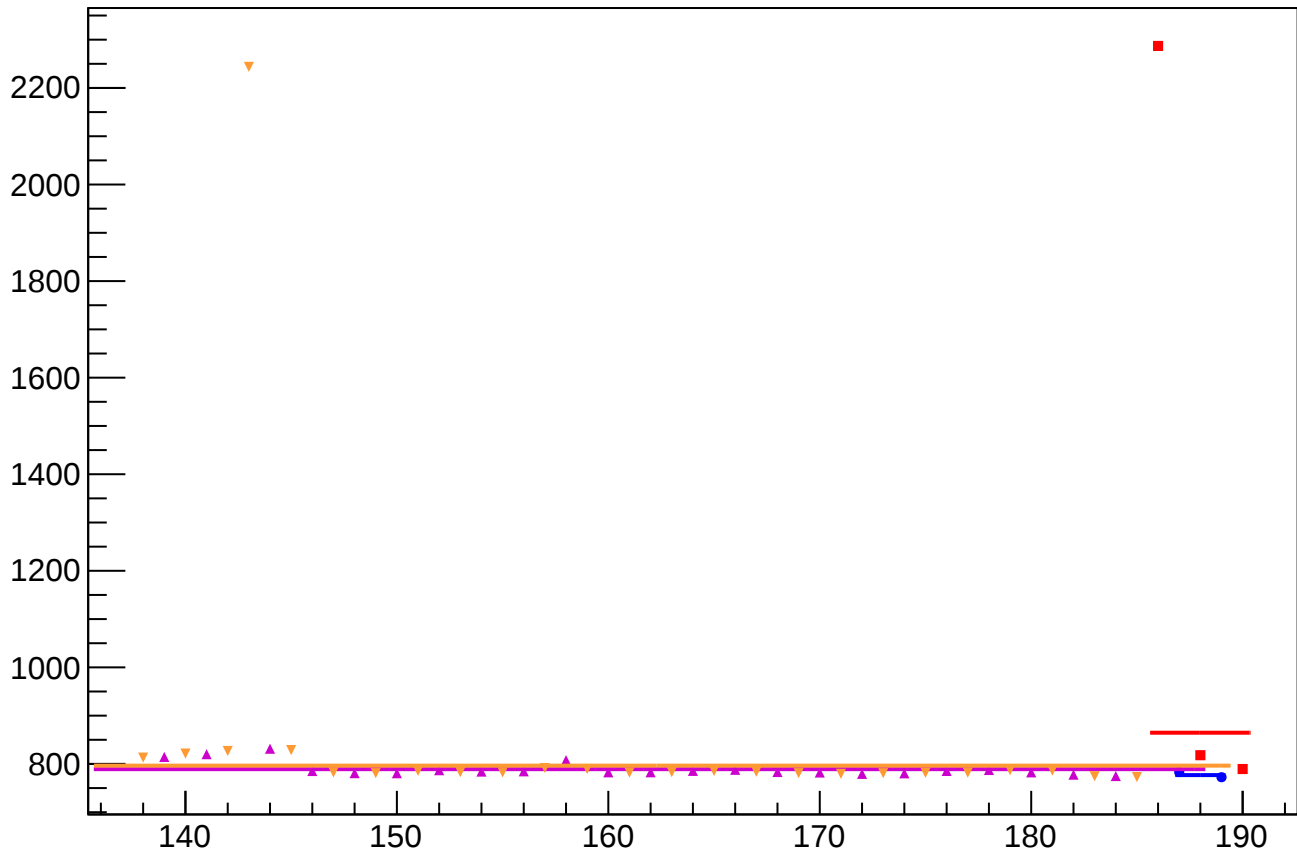
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

Out: 1837.843 $\pm$ 180.837 χ^2 /NDF:21.0/27

All: 1980.238 $\pm$ 130.375 χ^2 /NDF: 54.7/52

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

Left Out: 796.470 ± 0.132 χ^2/NDF : 658729.4/24

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

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

Left: 792.886 ± 0.094 χ^2/NDF : 671086.4/47

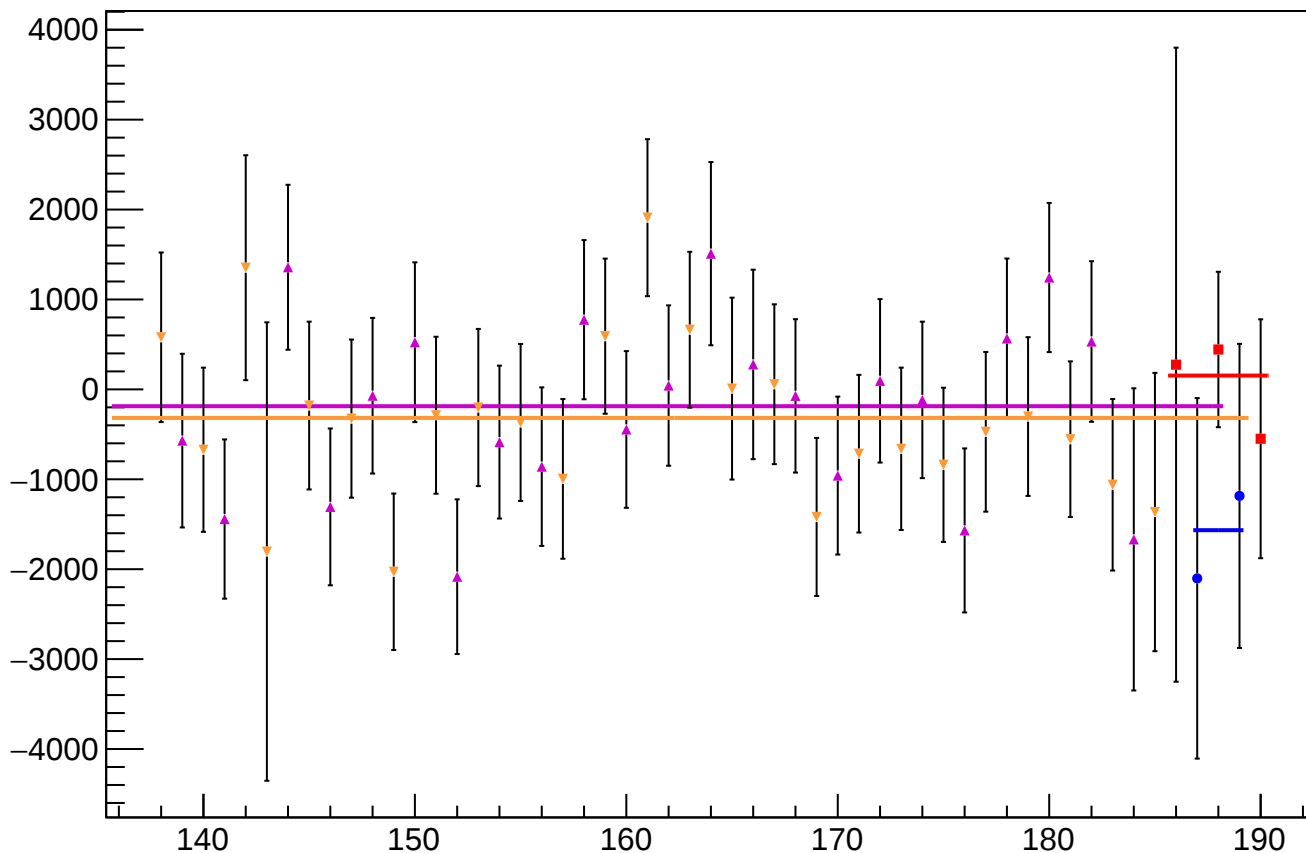
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

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

Out: 800.829 ± 0.128 χ^2/NDF : 982233.5/27

All: 795.109 ± 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

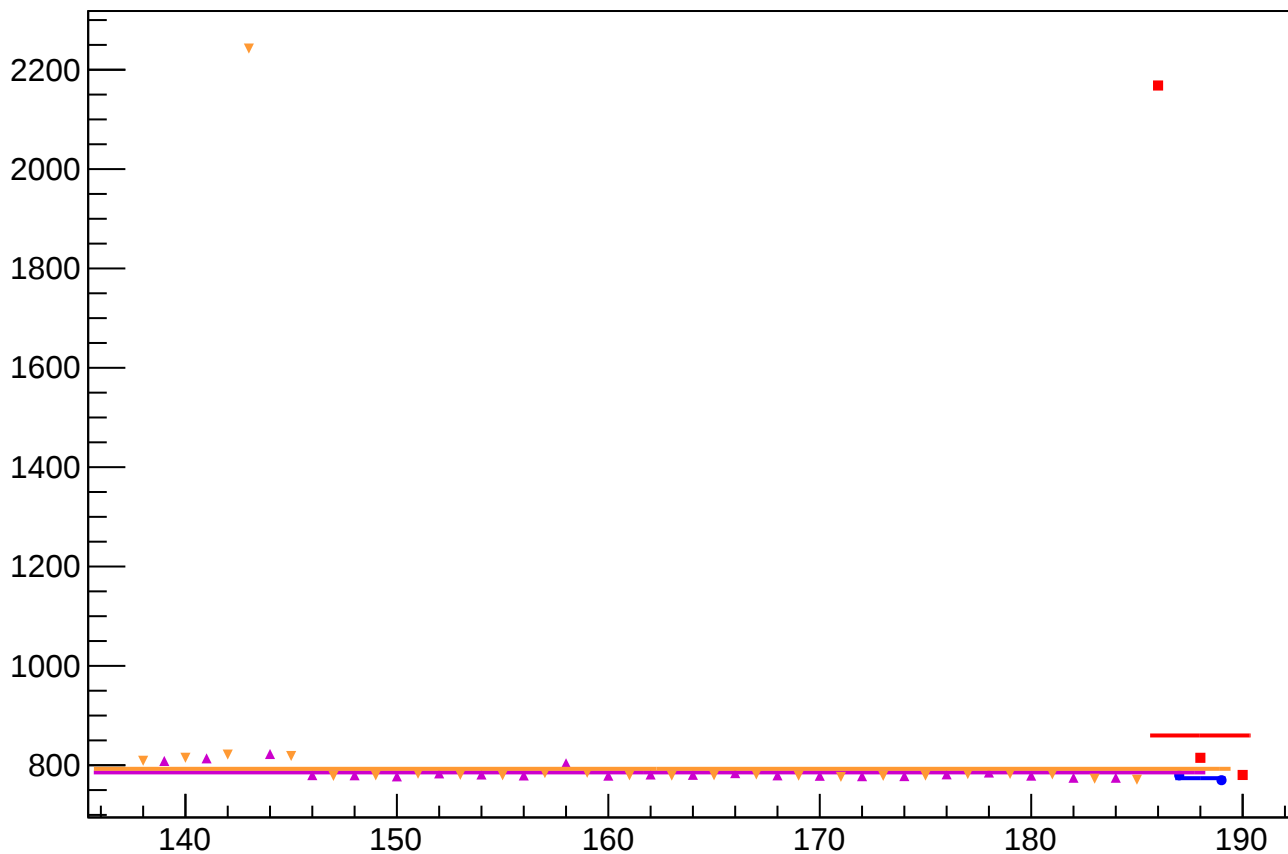
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

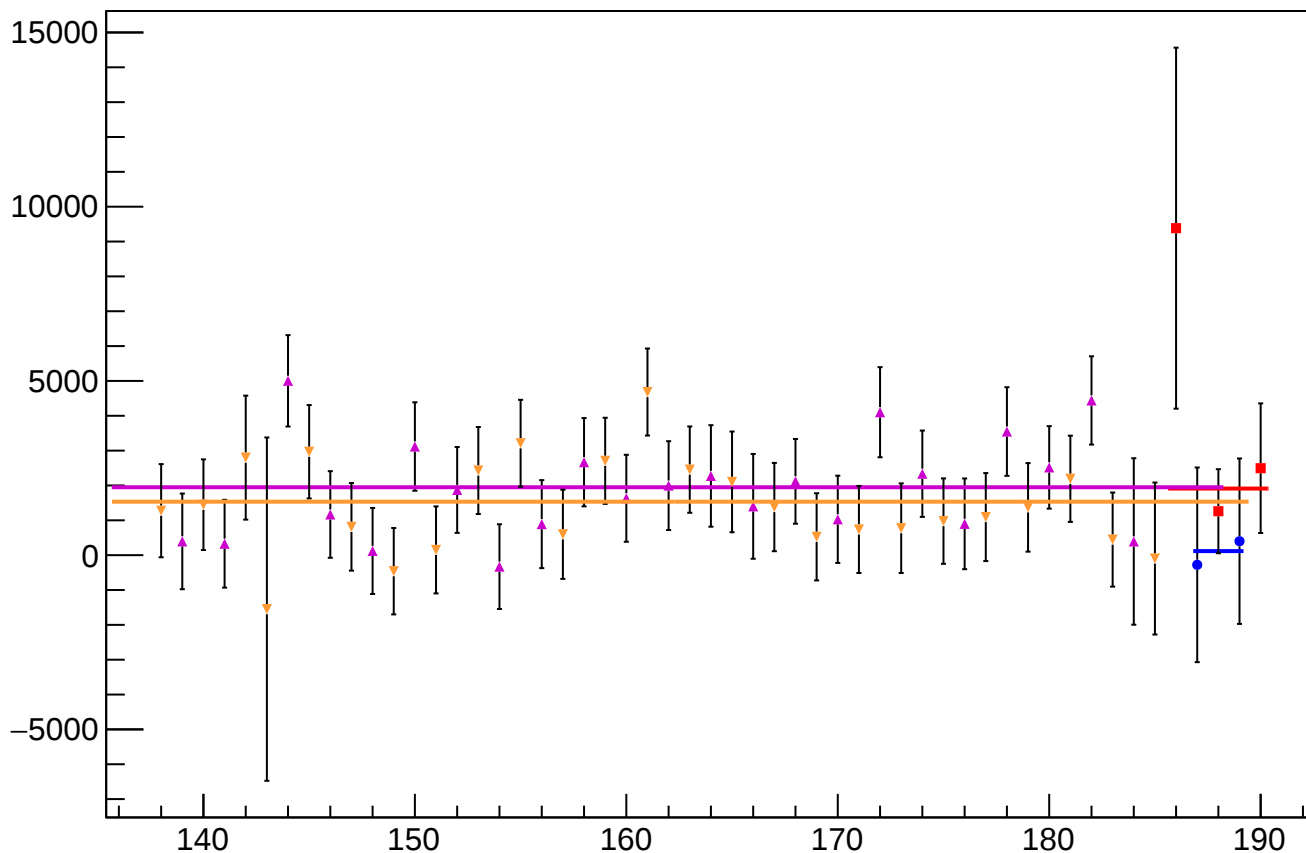
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

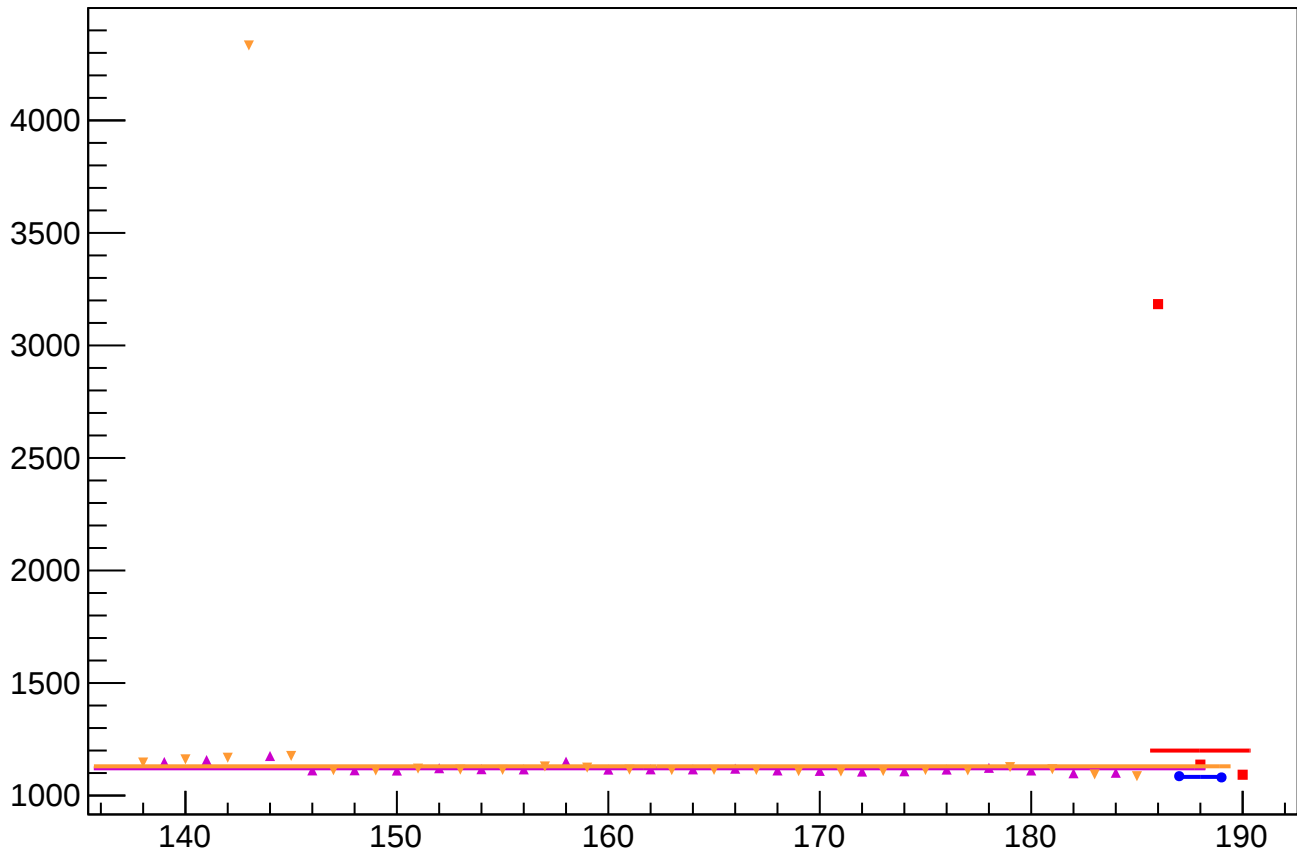
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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 ± 1.279 $\chi^2/\text{NDF}: 4.6/1$

Left Out: 1129.937 ± 0.188 $\chi^2/\text{NDF}: 858269.9/24$

Right Out: 1199.844 ± 0.702 $\chi^2/\text{NDF}: 305356.1/2$

Left In: 1120.977 ± 0.191 $\chi^2/\text{NDF}: 9259.6/22$

Left: 1125.527 ± 0.134 $\chi^2/\text{NDF}: 868647.2/47$

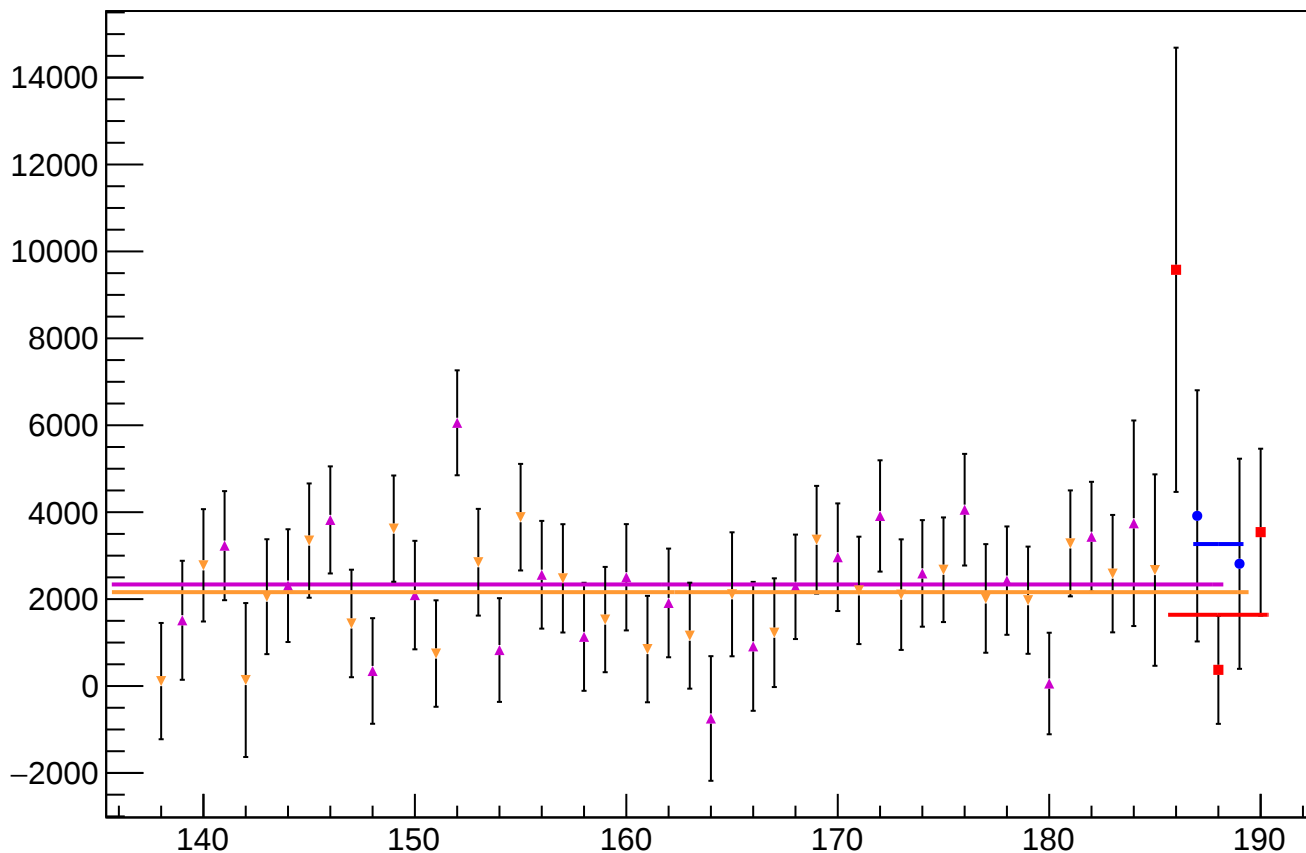
Right: 1172.741 ± 0.616 $\chi^2/\text{NDF}: 311788.3/4$

In: 1120.146 ± 0.189 $\chi^2/\text{NDF}: 10132.9/24$

Out: 1134.612 ± 0.182 $\chi^2/\text{NDF}: 1172871.0/27$

All: 1127.662 ± 0.131 $\chi^2/\text{NDF}: 1186051.5/52$

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

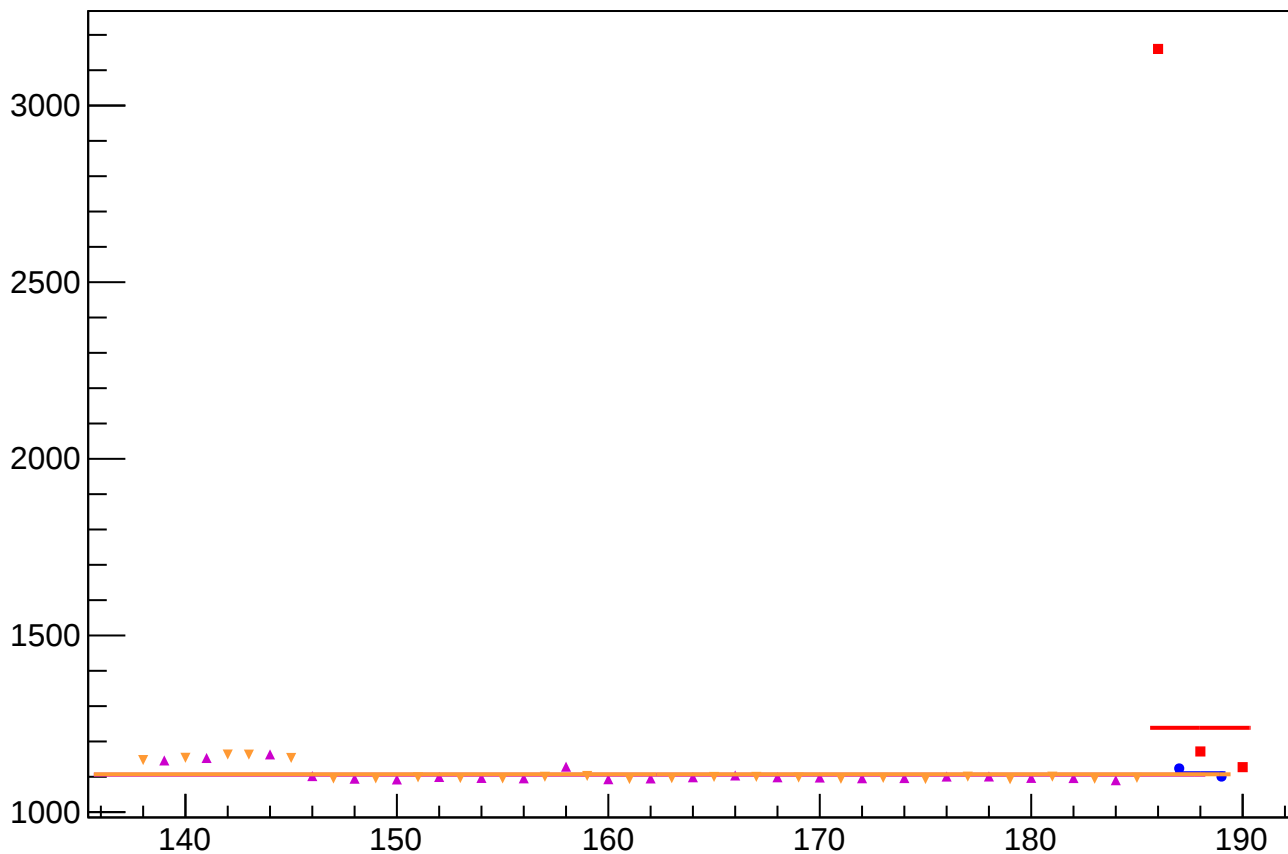
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

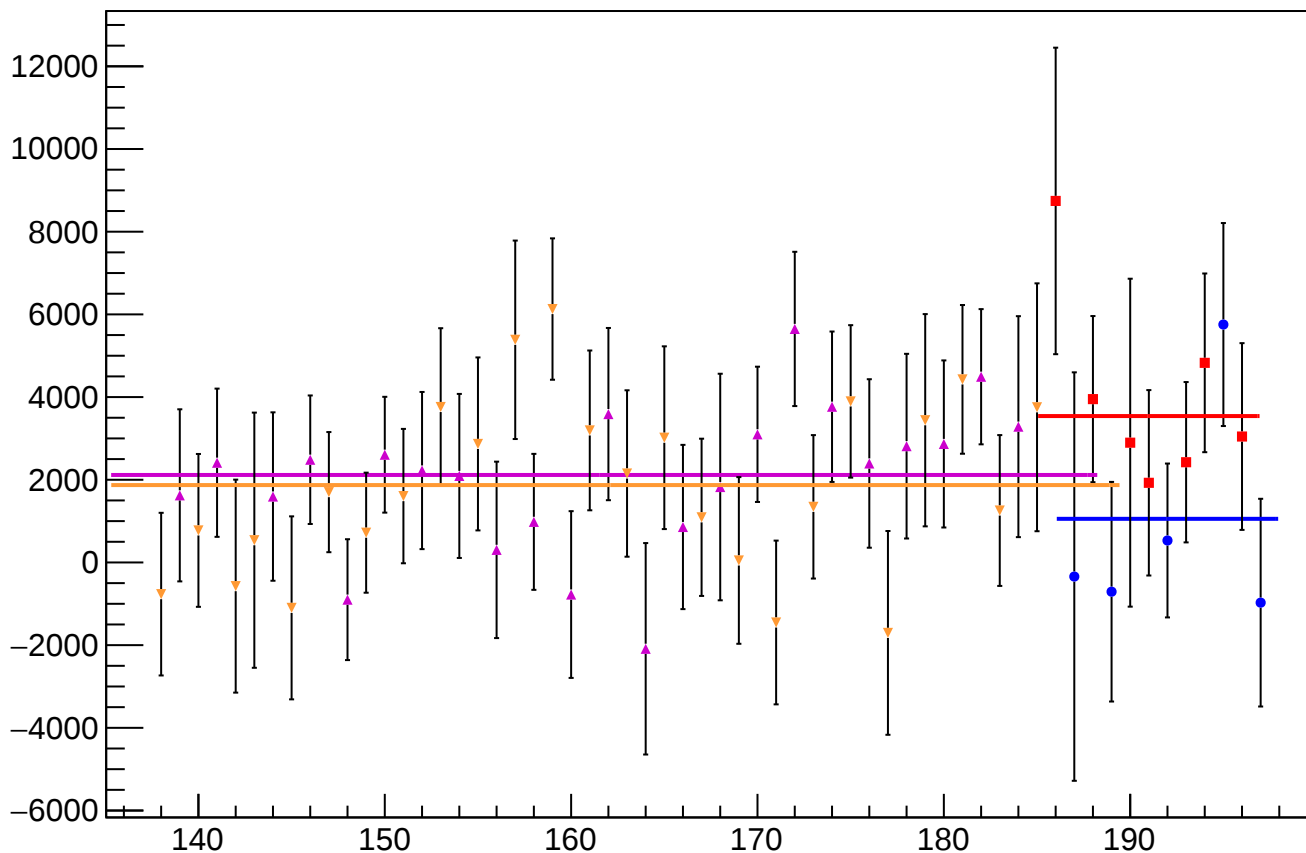
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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: 1055.260+/-1120.924 χ^2/NDF : 4.9/4

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

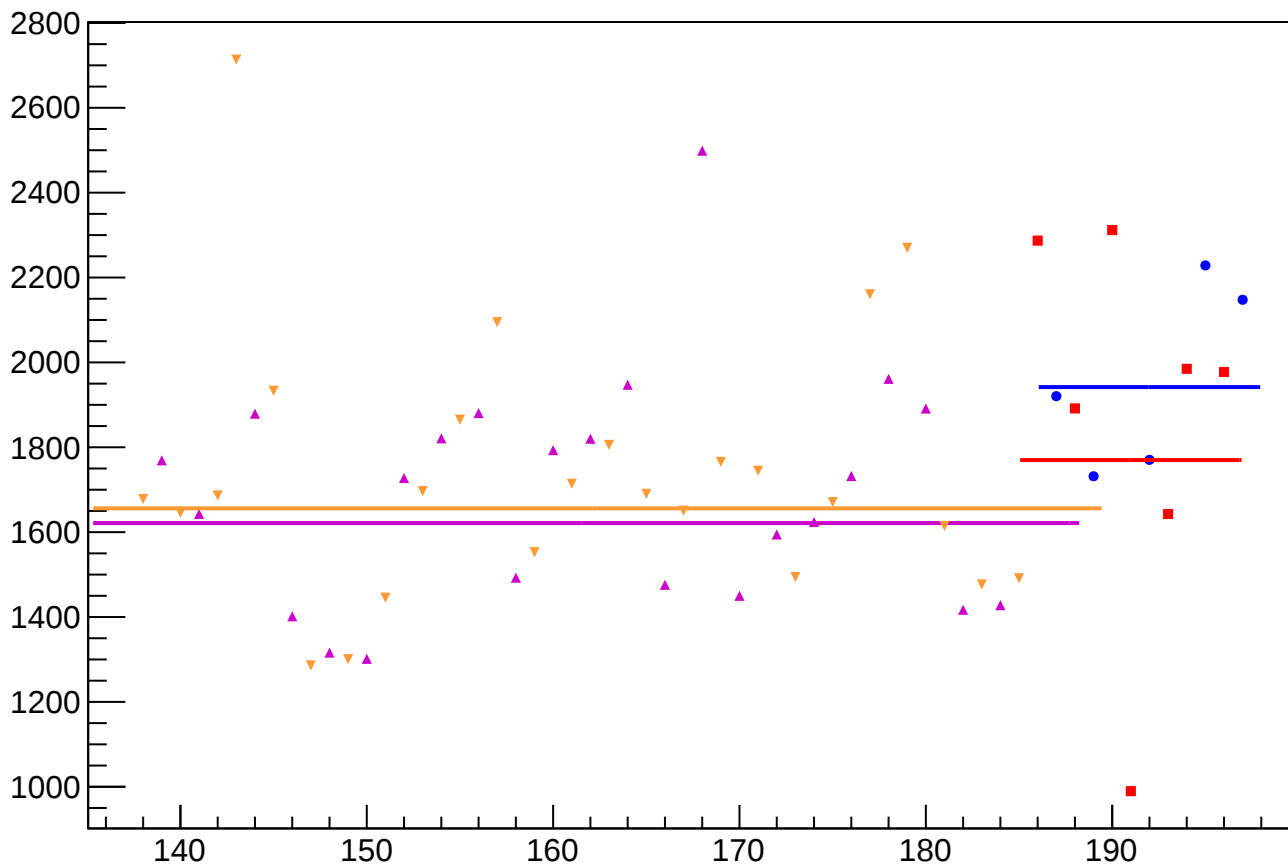
Right: 2578.101+/-697.591 χ^2/NDF : 11.2/11

In: 1999.988+/-370.864 χ^2/NDF : 24.5/27

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

All: 2073.304+/-257.788 χ^2/NDF : 56.9/59

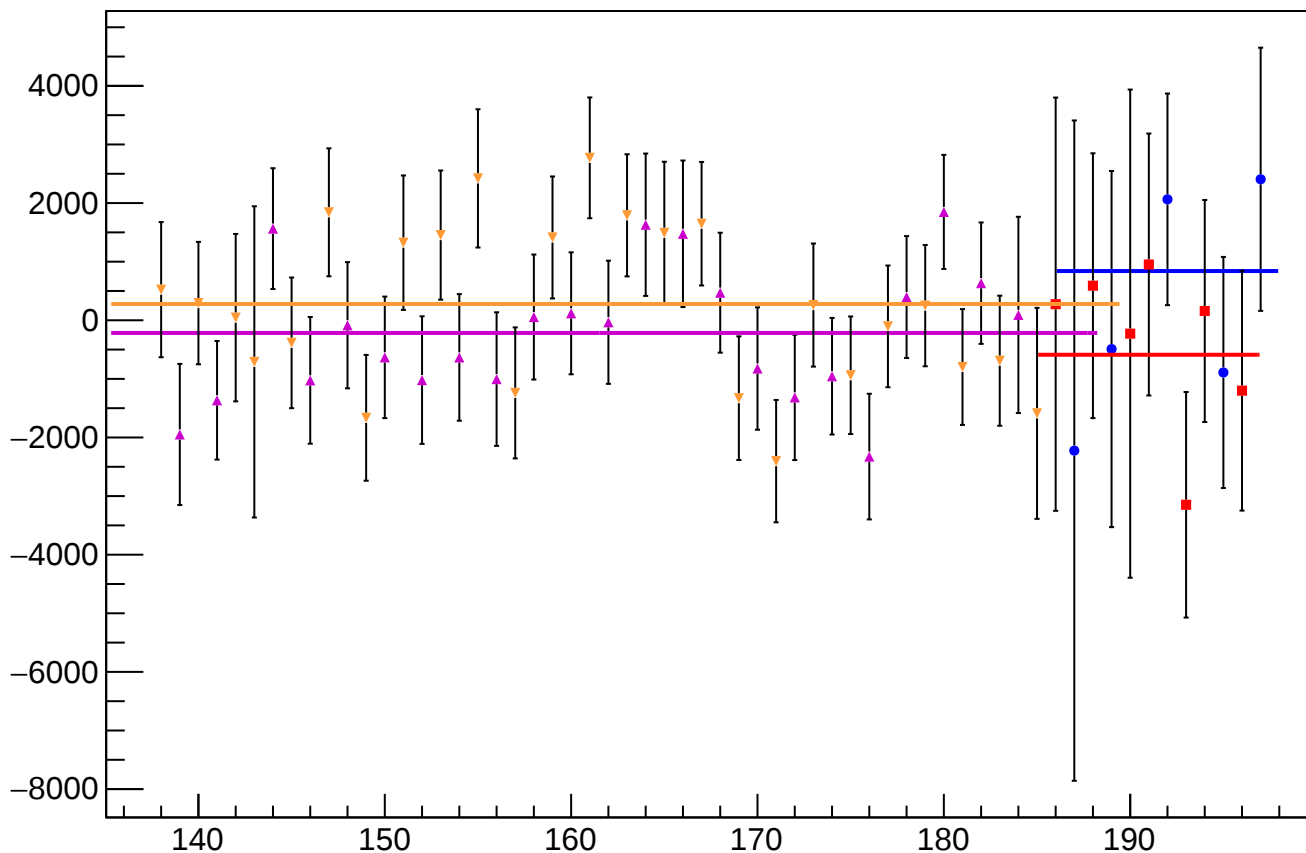
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1941.843 $\pm$ 0.793 χ^2/NDF : 70247.6/4
 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: 1836.474 $\pm$ 0.493 χ^2/NDF : 470045.3/11
 In: 1656.492 $\pm$ 0.262 χ^2/NDF : 991098.6/27
 Out: 1674.534 $\pm$ 0.254 χ^2/NDF : 1308833.7/31
 All: 1665.817 $\pm$ 0.182 χ^2/NDF : 2302378.5/59

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 840.112 $\pm$ 1052.912 χ^2 /NDF: 2.2/4

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

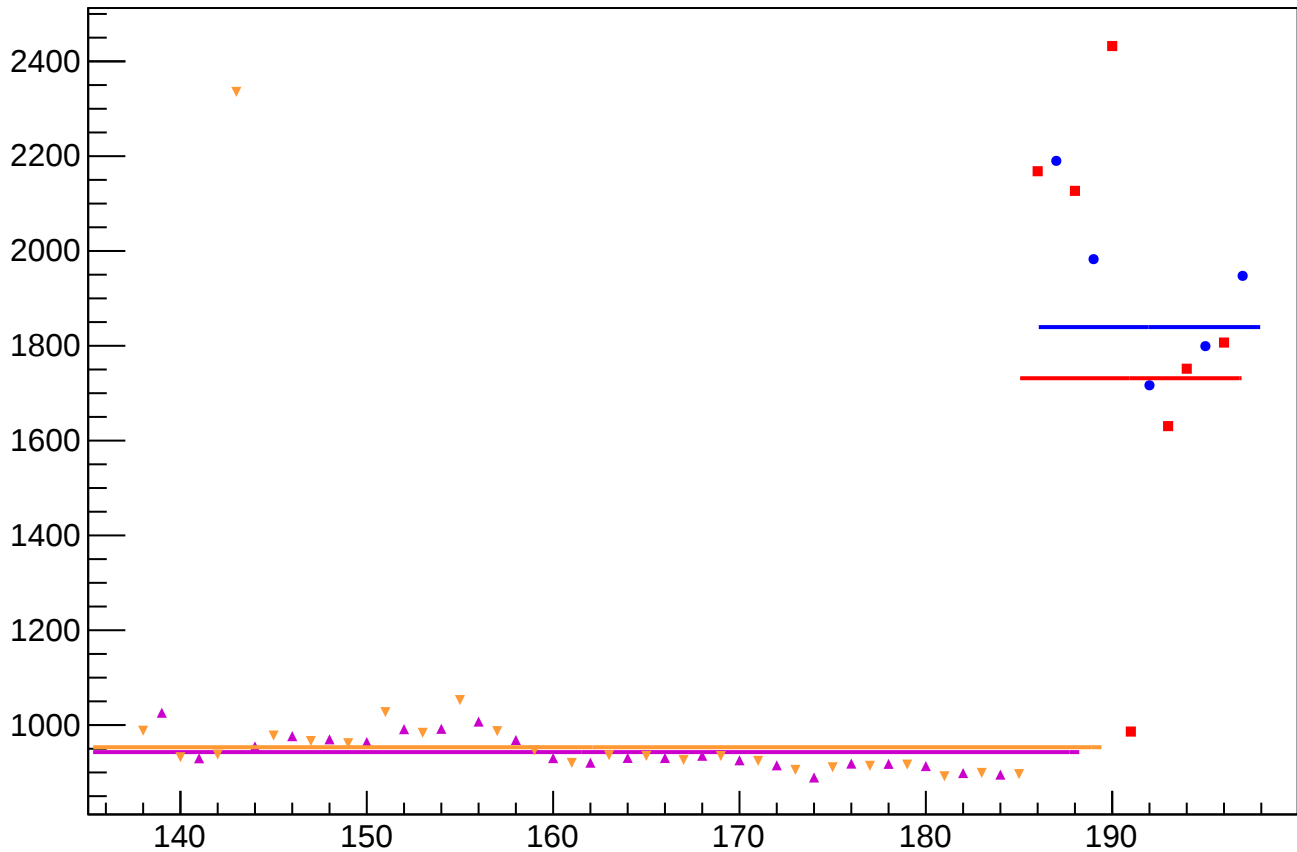
Right: -8.867 $\pm$ 670.641 χ^2 /NDF: 6.1/11

In: -169.759 $\pm$ 220.594 χ^2 /NDF:27.6/27

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

All: 30.973 $\pm$ 154.531 χ^2 /NDF: 71.4/59

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1839.453 +/- 0.745 χ^2/NDF : 26907.5/4

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

Right Out: 1731.609 +/- 0.615 χ^2/NDF : 379249.1/6

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

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

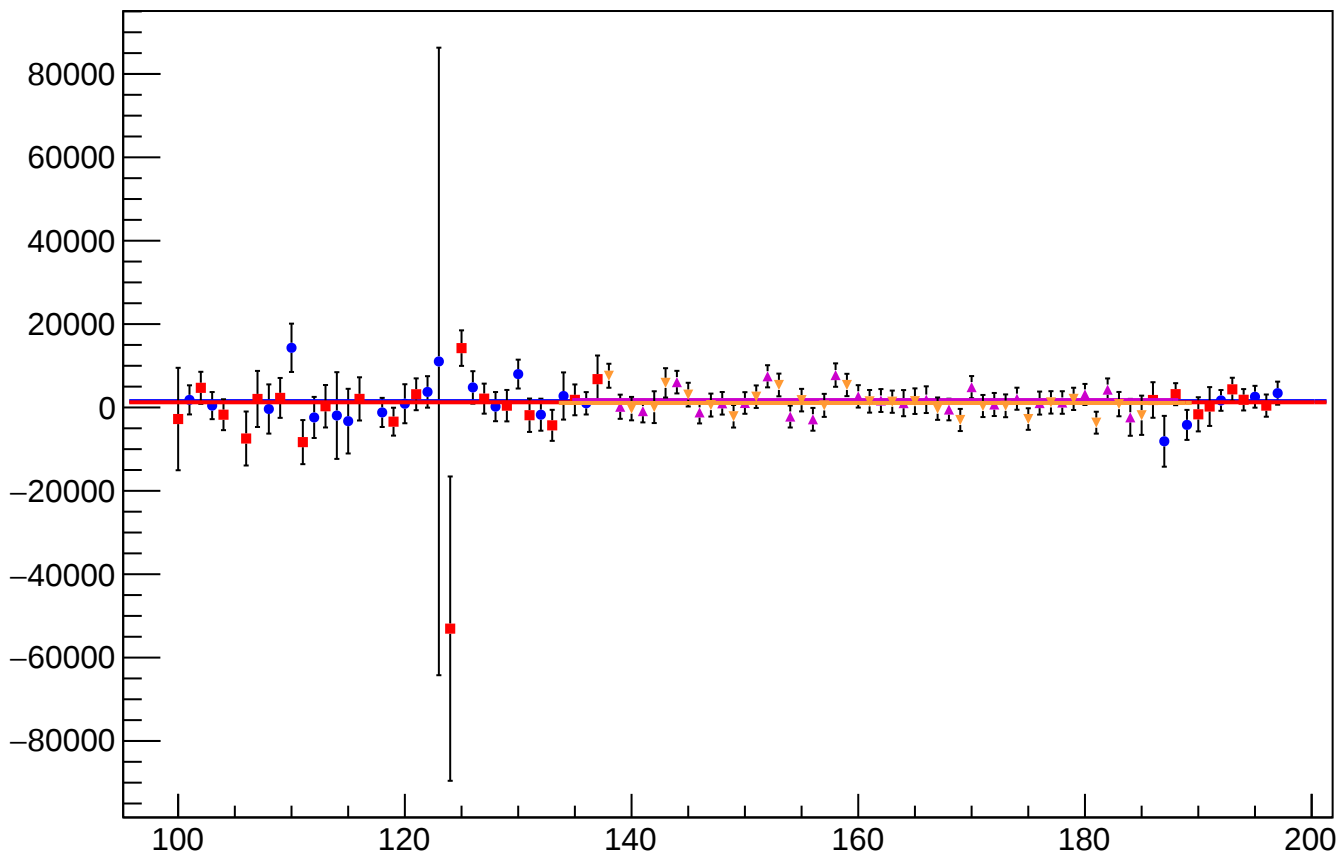
Right: 1775.361 +/- 0.474 χ^2/NDF : 418626.1/11

In: 982.278 +/- 0.156 χ^2/NDF : 1461679.5/27

Out: 1001.451 +/- 0.153 χ^2/NDF : 2487538.4/31

All: 992.042 +/- 0.109 χ^2/NDF : 3956911.9/59

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1527.072+/-813.493 χ^2/NDF : 18.0/21

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

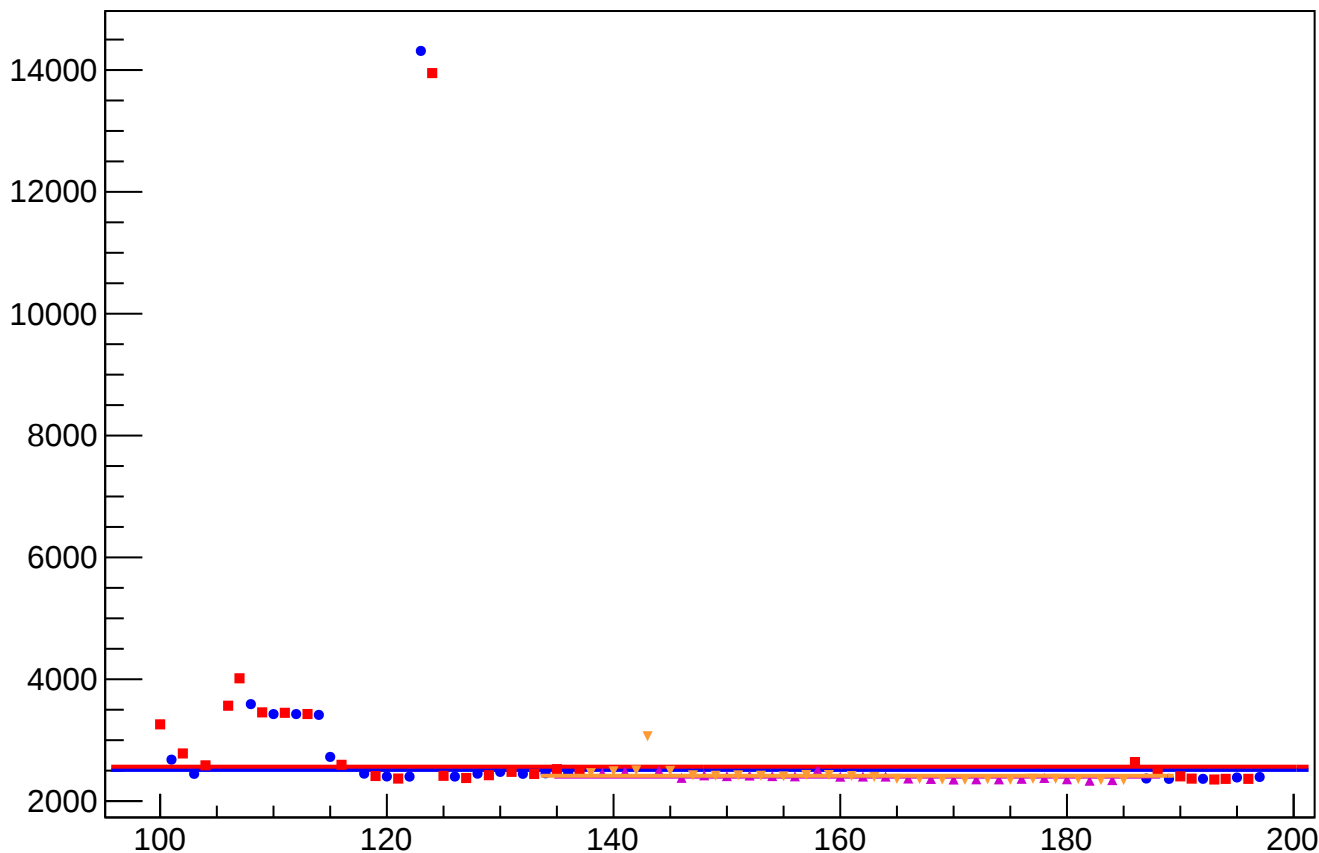
Right: 1376.259+/-560.228 χ^2/NDF : 44.9/47

In: 1693.628+/-470.034 χ^2/NDF : 42.1/44

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

All: 1405.276+/-327.122 χ^2/NDF : 93.3/95

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2512.071+/-0.575 χ^2/NDF : 283886.3/21

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

Right Out: 2565.006+/-0.546 χ^2/NDF : 598682.0/25

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

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

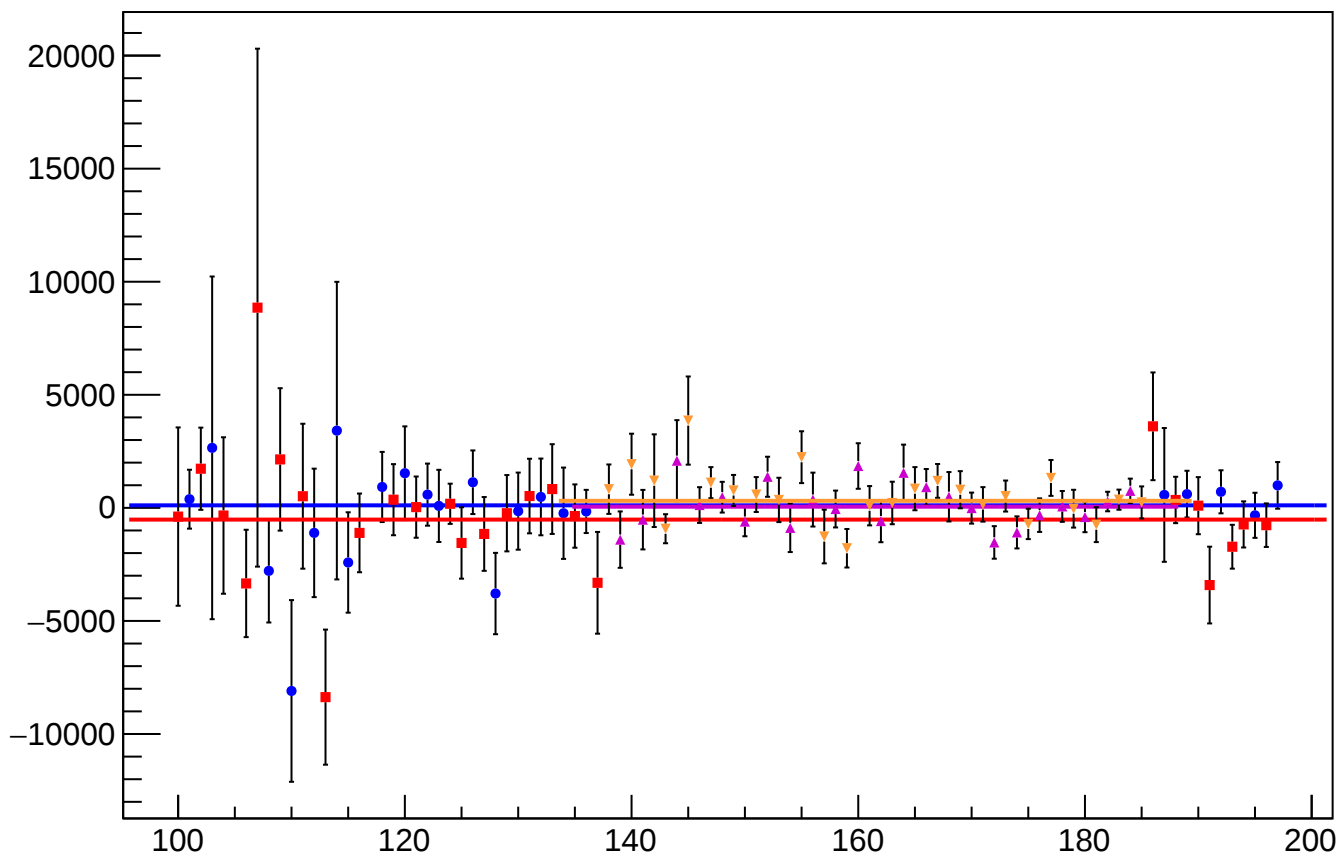
Right: 2539.901+/-0.396 χ^2/NDF : 887020.5/47

In: 2438.362+/-0.332 χ^2/NDF : 322282.4/44

Out: 2467.810+/-0.322 χ^2/NDF : 729831.5/50

All: 2453.547+/-0.231 χ^2/NDF : 1056161.9/95

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 111.264+/-320.511 χ^2/NDF : 15.5/21

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

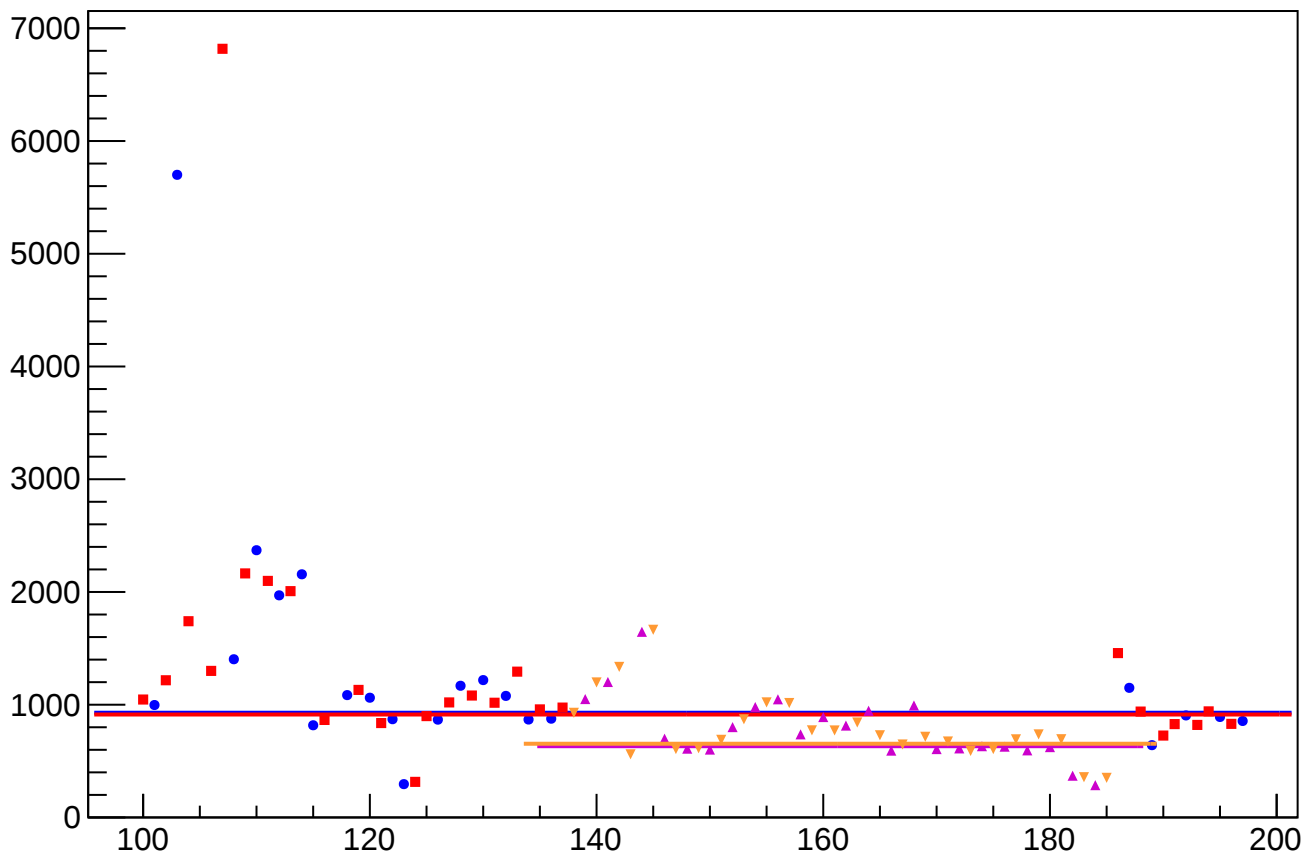
Right: -225.423+/-218.798 χ^2/NDF : 41.7/47

In: 63.594+/-144.399 χ^2/NDF : 39.4/44

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

All: 95.068+/-101.087 χ^2/NDF : 99.3/95

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 928.851+/-0.227 χ^2/NDF : 2134043.6/21

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

Right Out: 913.135+/-0.212 χ^2/NDF : 2867419.2/25

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

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

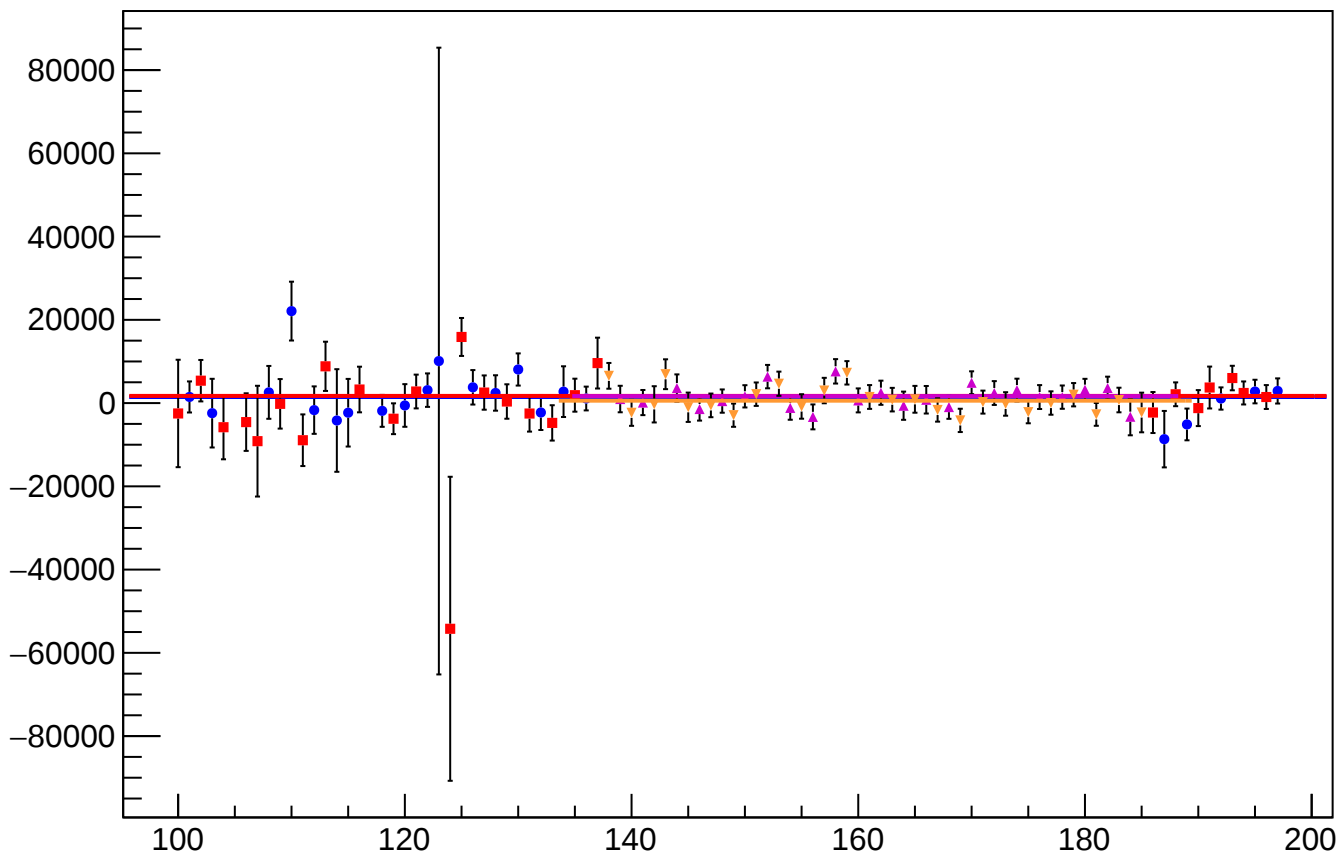
Right: 920.459+/-0.155 χ^2/NDF : 5004030.4/47

In: 692.296+/-0.102 χ^2/NDF : 7443802.9/44

Out: 711.770+/-0.100 χ^2/NDF : 7287073.6/50

All: 702.226+/-0.071 χ^2/NDF : 14749426.9/95

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1463.449 $\pm$ 911.586 χ^2/NDF : 20.4/21

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

Right Out: 1723.001 $\pm$ 867.374 χ^2/NDF : 30.5/25

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

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

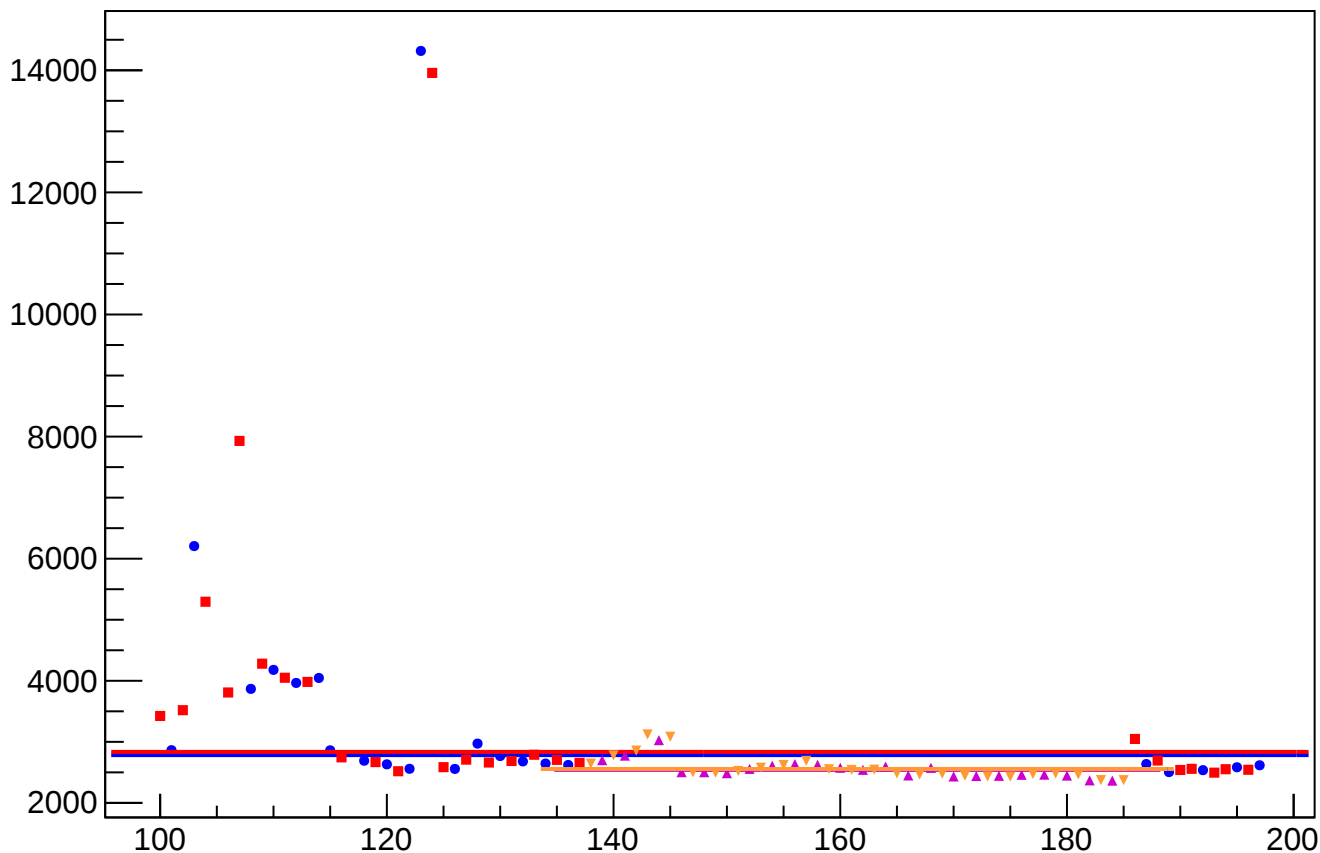
Right: 1599.671 $\pm$ 628.375 χ^2/NDF : 51.0/47

In: 1612.711 $\pm$ 507.029 χ^2/NDF : 38.6/44

Out: 948.161 $\pm$ 491.870 χ^2/NDF : 57.0/50

All: 1270.353 $\pm$ 353.042 χ^2/NDF : 96.5/95

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2782.762+/-0.645 χ^2/NDF : 708275.5/21

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

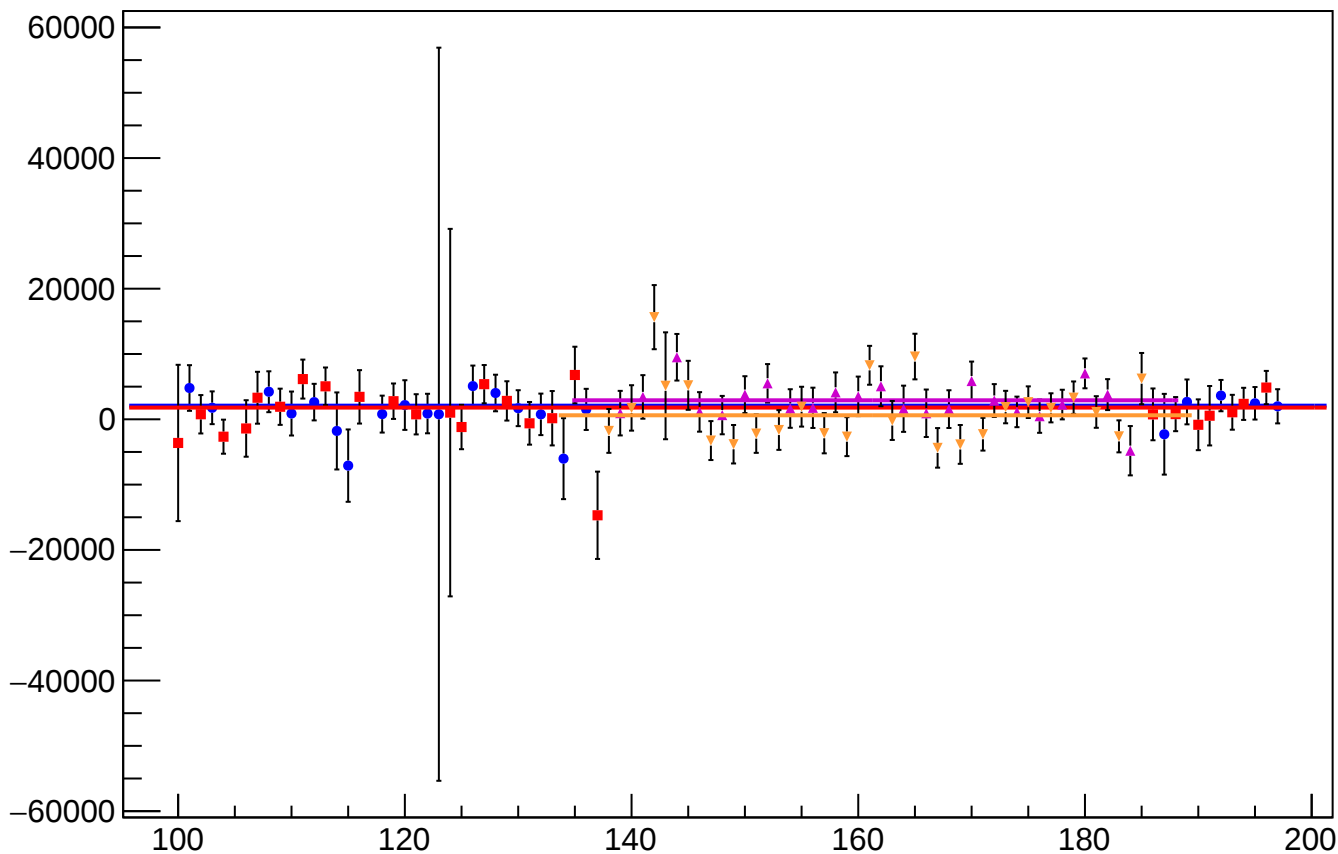
Right: 2810.429+/-0.444 χ^2/NDF : 1872765.5/47

In: 2615.784+/-0.359 χ^2/NDF : 900195.5/44

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

All: 2631.034+/-0.250 χ^2/NDF : 2361026.5/95

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2087.685+/-689.548 χ^2/NDF : 9.1/21

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

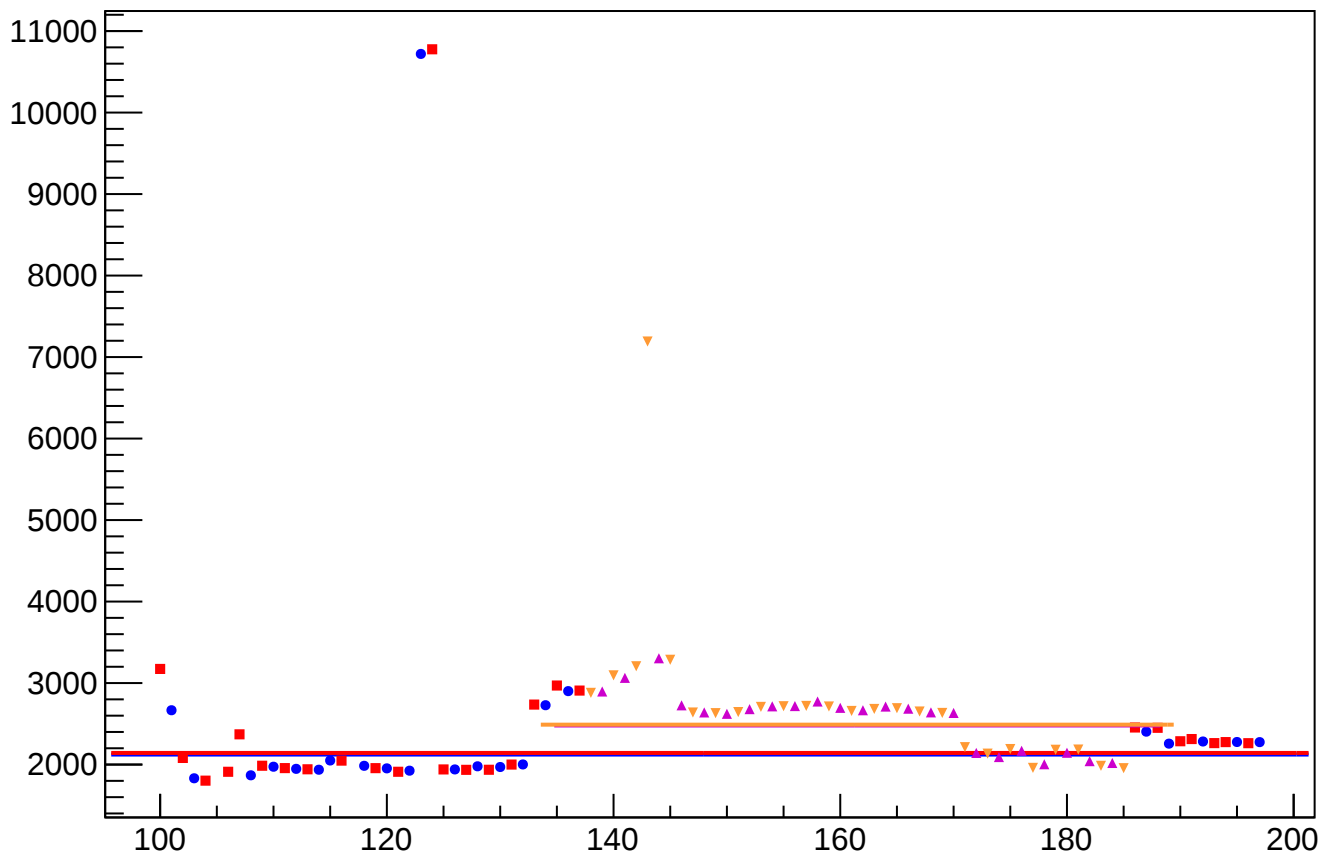
Right: 1932.320+/-472.467 χ^2/NDF : 29.8/47

In: 2555.383+/-452.495 χ^2/NDF : 27.3/44

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

All: 1828.216+/-314.314 χ^2/NDF : 99.8/95

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2122.779+/-0.488 χ^2/NDF : 359811.9/21

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

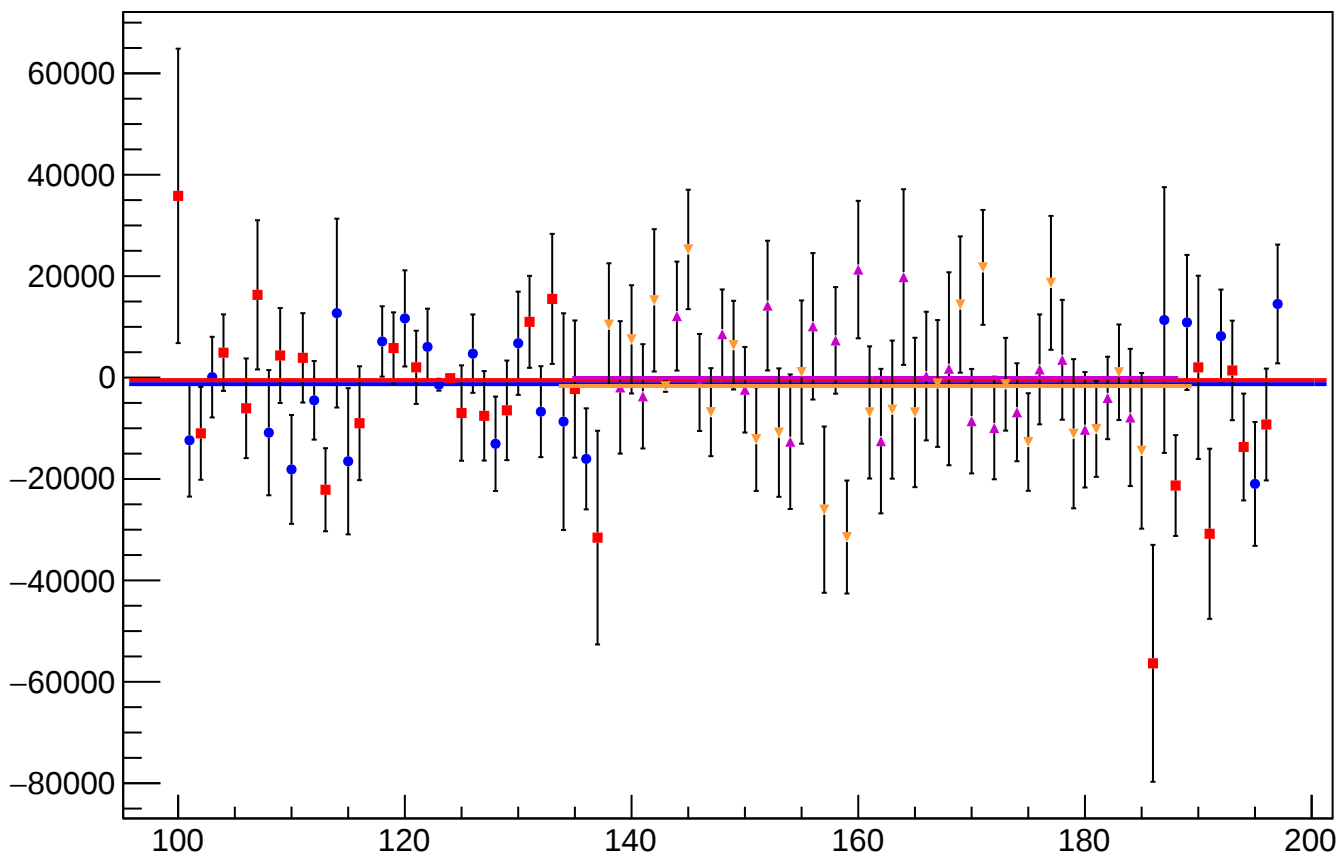
Right: 2133.295+/-0.334 χ^2/NDF : 887071.5/47

In: 2325.801+/-0.320 χ^2/NDF : 1332710.7/44

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

All: 2329.087+/-0.222 χ^2/NDF : 3536117.5/95

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1296.580+/-1035.851 χ^2/NDF : 22.3/21

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

Right Out: -502.121+/-687.703 χ^2/NDF : 36.7/25

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

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

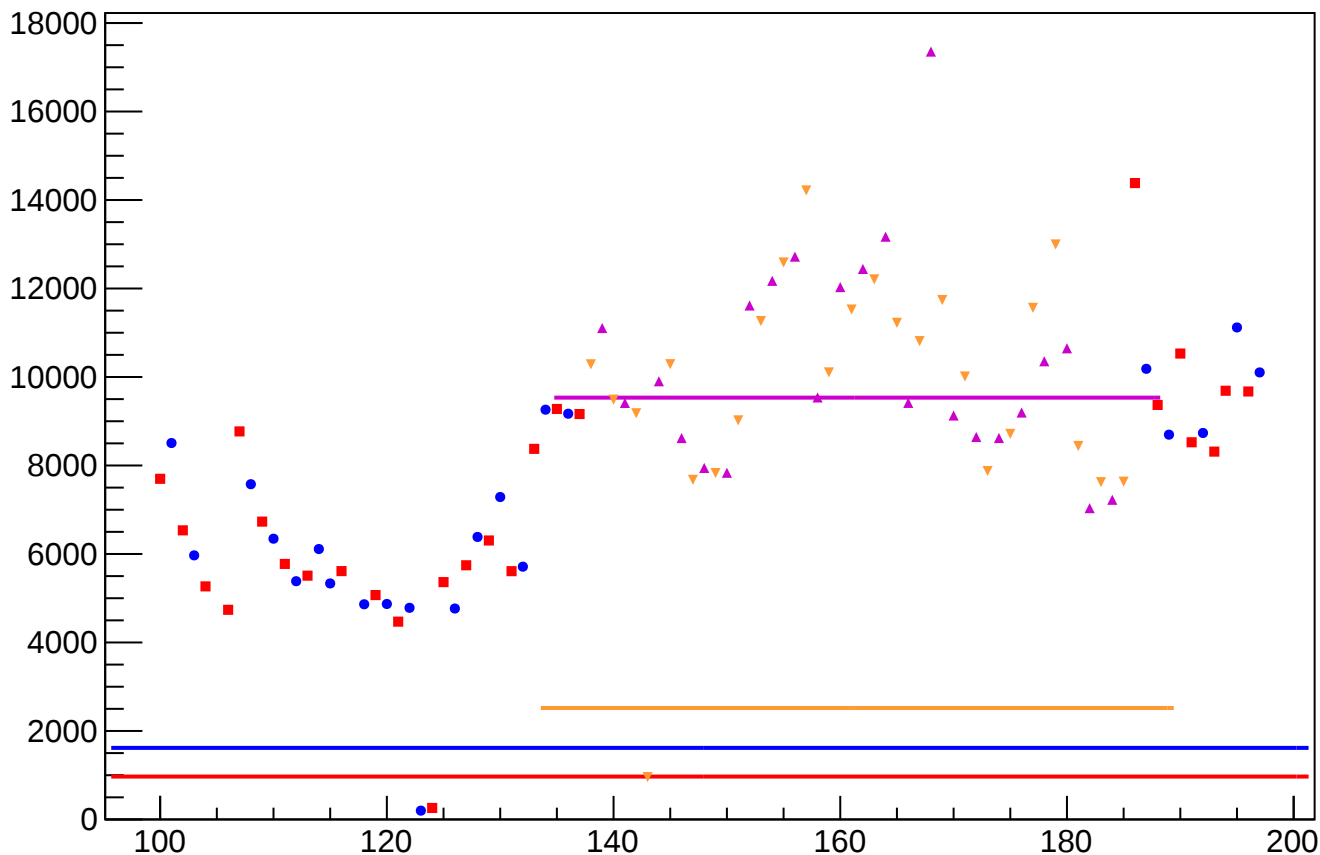
Right: -745.165+/-572.933 χ^2/NDF : 59.4/47

In: -1096.077+/-946.630 χ^2/NDF : 36.3/44

Out: -879.177+/-565.371 χ^2/NDF : 70.0/50

All: -936.204+/-485.390 χ^2/NDF : 106.4/95

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1617.864+/-0.732

χ^2/NDF : 14420741.9/21

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

Right: 1167.752+/-0.405 χ^2/NDF : 33307618.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 2922.735+/-0.669 χ^2/NDF : 34990128.3/44

Right Out: 969.358+/-0.486

χ^2/NDF : 18342785.7/25

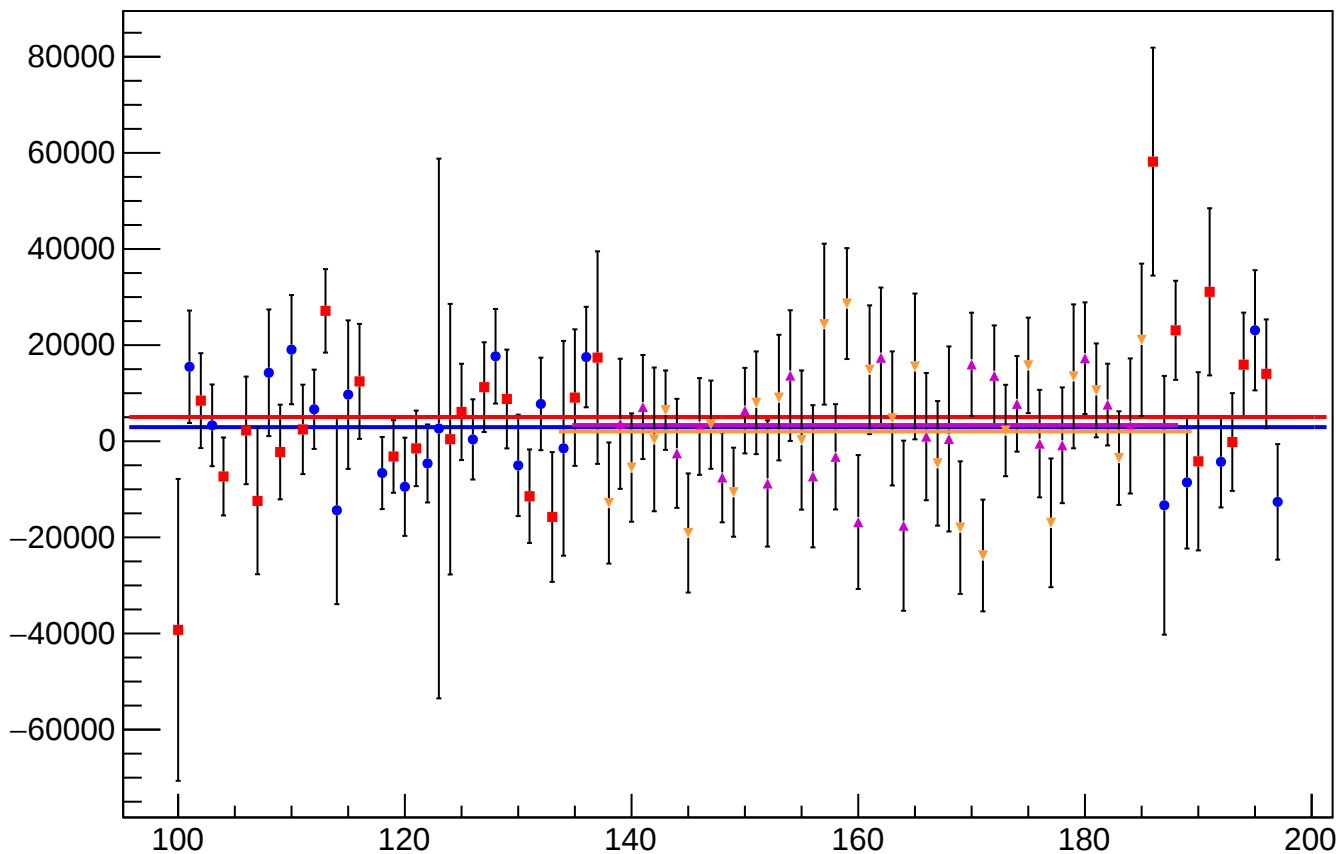
Out: 1471.755+/-0.400 χ^2/NDF : 45278028.5/50

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1853.245+/-0.343 χ^2/NDF : 83731597.9/95

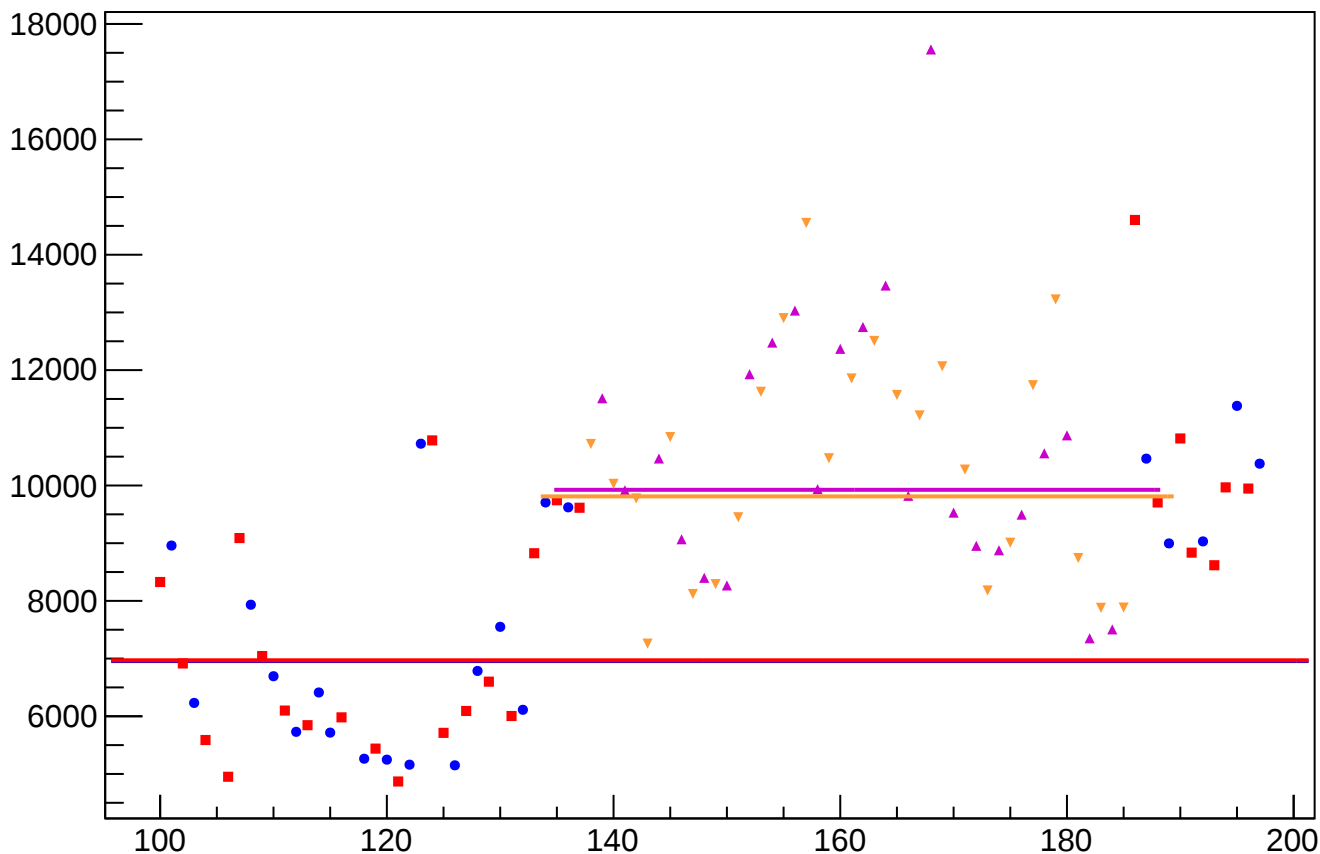
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2939.755+/-2320.594 χ^2/NDF : 20.1/21
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 5043.325+/-2165.949 χ^2/NDF : 33.9/25
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 4063.961+/-1583.408 χ^2/NDF : 54.4/47
 In: 3146.496+/-1676.022 χ^2/NDF :33.2/44
 Out: 3660.724+/-1587.487 χ^2/NDF :65.5/50
 All: 3417.550+/-1152.551 χ^2/NDF : 98.8/95

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6956.809+/-1.641 χ^2/NDF : 1270494.8/21

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

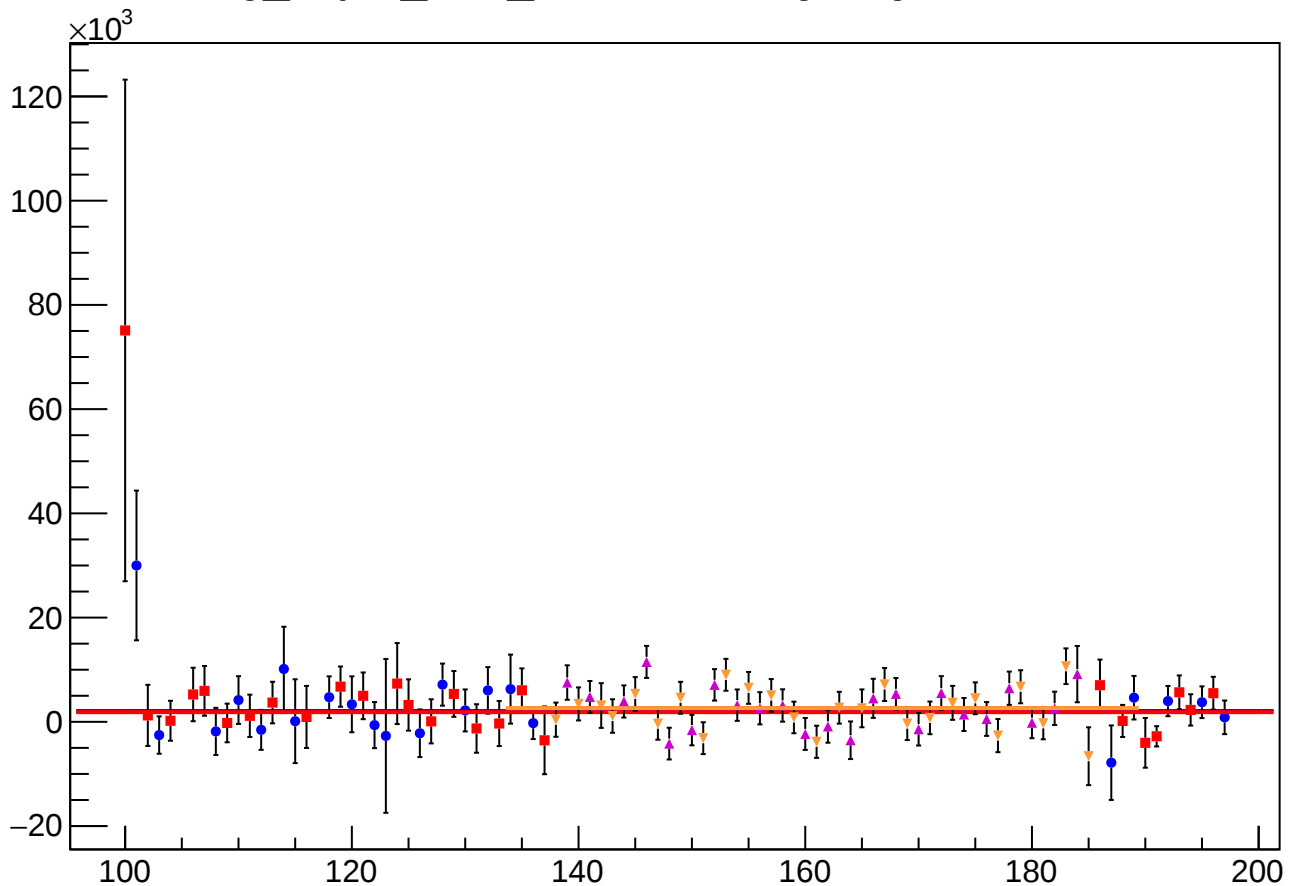
Right: 6963.947+/-1.120 χ^2/NDF : 2777432.4/47

In: 8376.864+/-1.185 χ^2/NDF : 4047650.7/44

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

All: 8328.397+/-0.815 χ^2/NDF : 8363999.6/95

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2063.854 $\pm$ 920.117 χ^2/NDF : 16.7/21

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

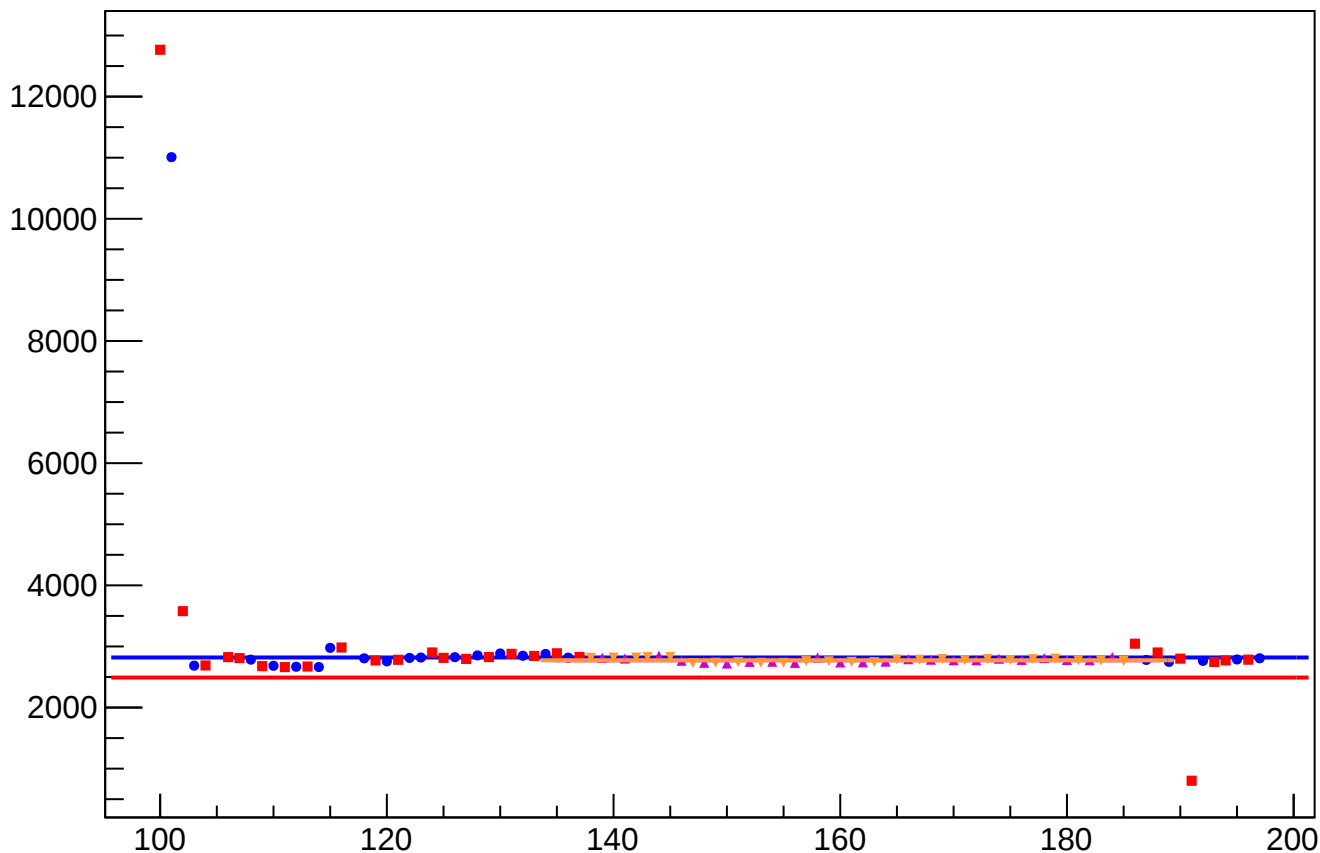
Right: 1944.383 $\pm$ 596.701 χ^2/NDF : 38.2/47

In: 2441.567 $\pm$ 538.741 χ^2/NDF : 52.2/44

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

All: 2376.638 $\pm$ 365.926 χ^2/NDF : 109.3/95

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2819.536+/-0.651 χ^2/NDF : 662448.5/21

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

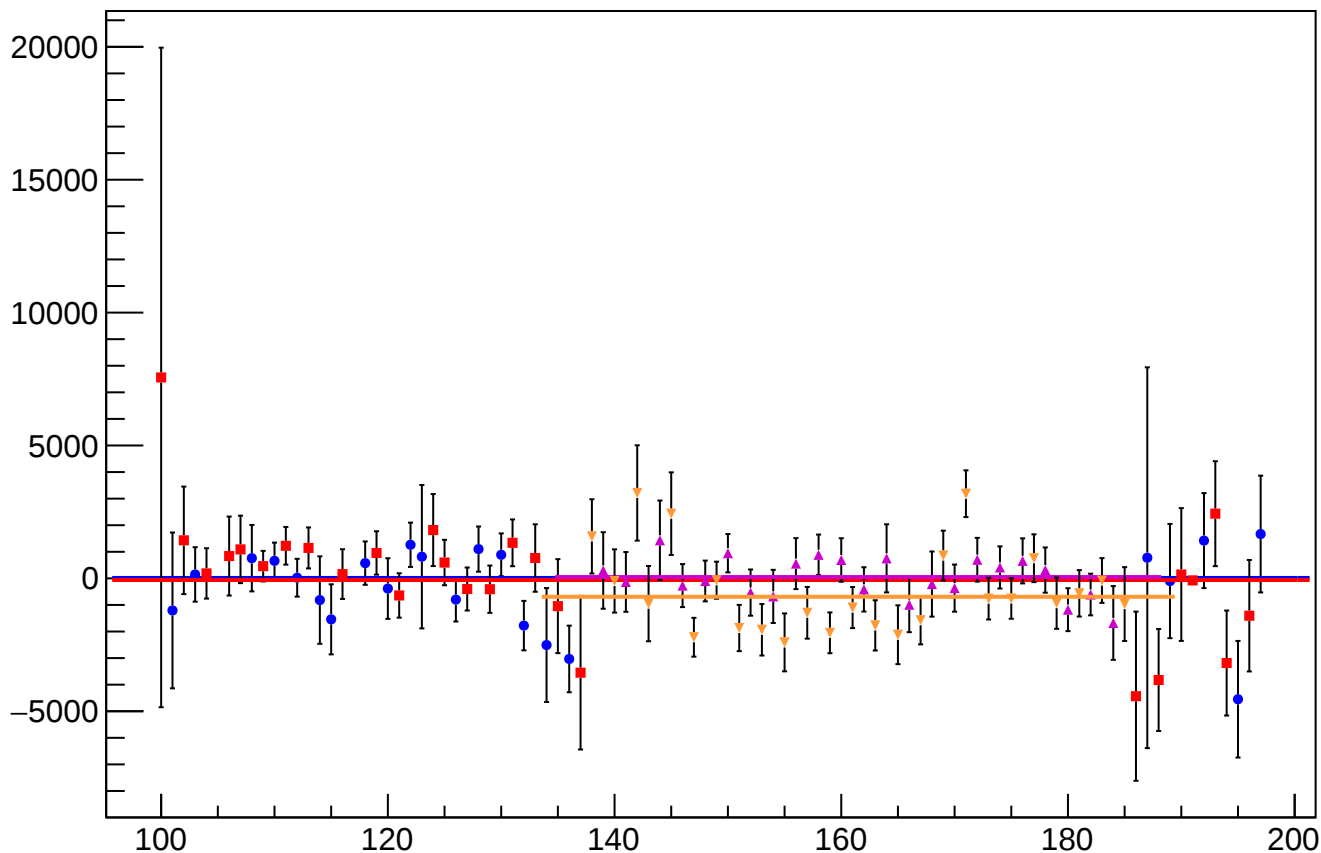
Right: 2629.209+/-0.422 χ^2/NDF : 2743855.8/47

In: 2789.635+/-0.381 χ^2/NDF : 670647.8/44

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

All: 2719.467+/-0.259 χ^2/NDF : 2826800.3/95

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 15.380 ± 235.863 $\chi^2/\text{NDF}: 26.3/21$

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 $\chi^2/\text{NDF}: 77.4/47$

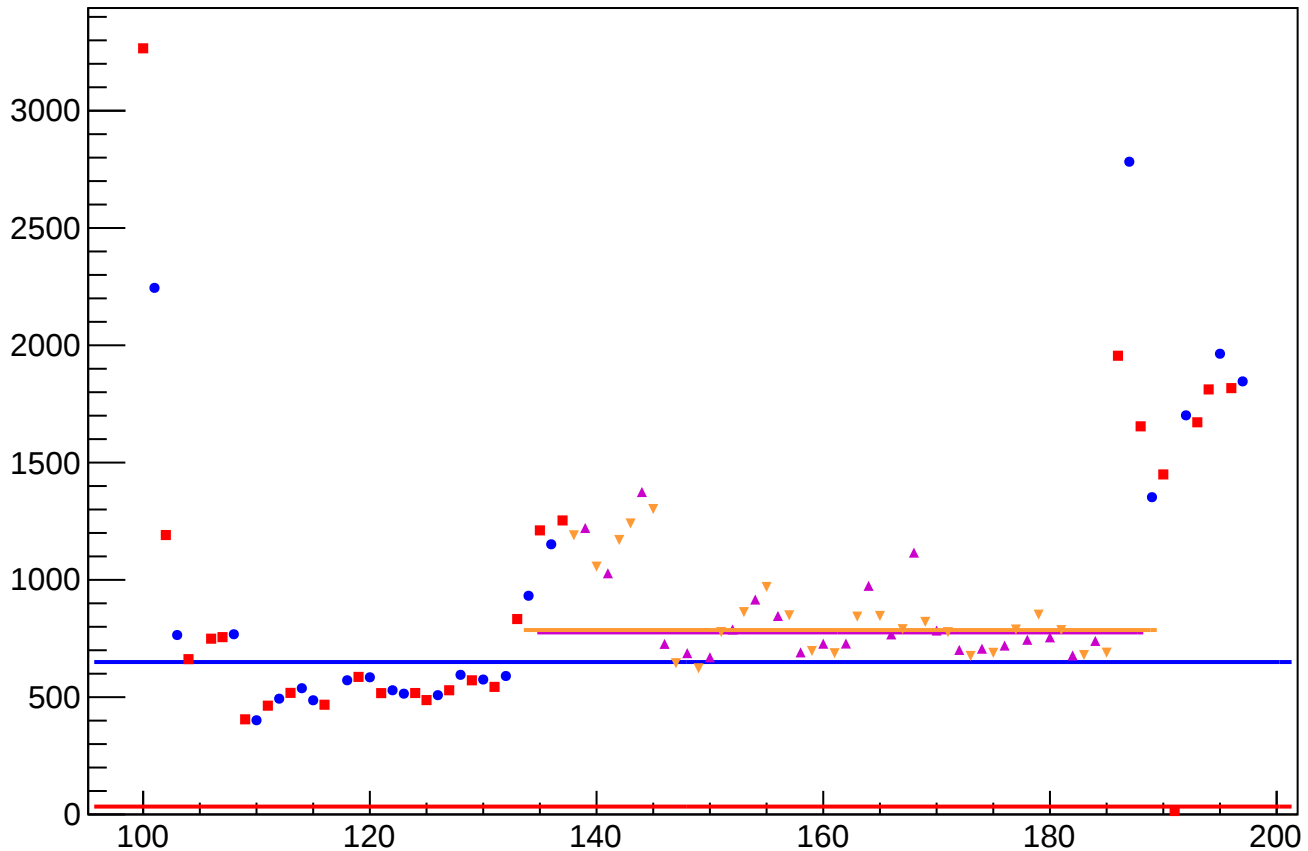
Right: -60.559 ± 37.425 $\chi^2/\text{NDF}: 55.2/47$

In: 35.986 ± 147.580 $\chi^2/\text{NDF}: 40.0/44$

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

All: -79.971 ± 36.028 $\chi^2/\text{NDF}: 136.3/95$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 649.752+/-0.167 χ^2/NDF : 3946679.9/21

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

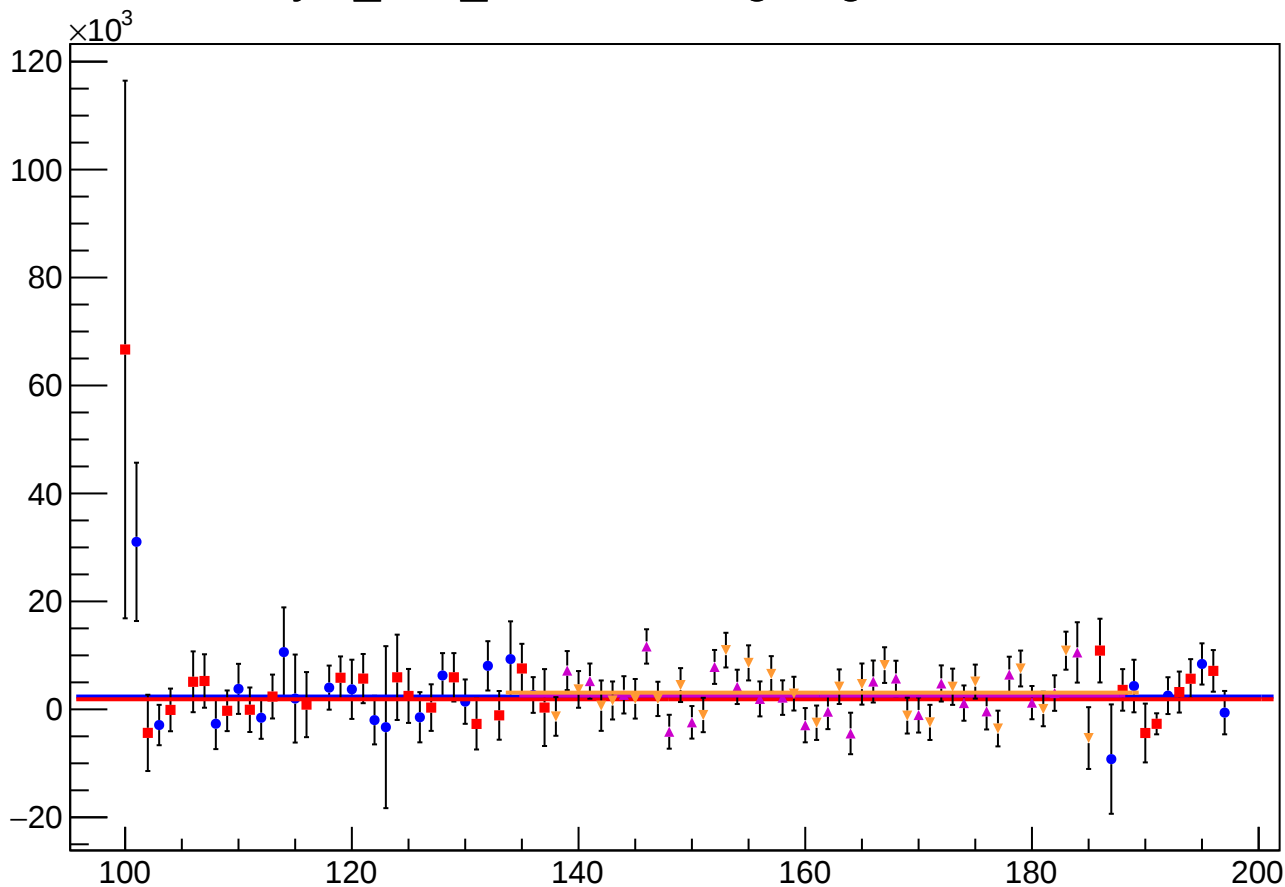
Right: 49.052+/-0.026 χ^2/NDF : 37157776.7/47

In: 726.531+/-0.104 χ^2/NDF :5351736.5/44

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

All: 102.686+/-0.025 χ^2/NDF : 95531912.2/95

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2373.120 $\pm$ 998.846 χ^2 /NDF: 19.1/21

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

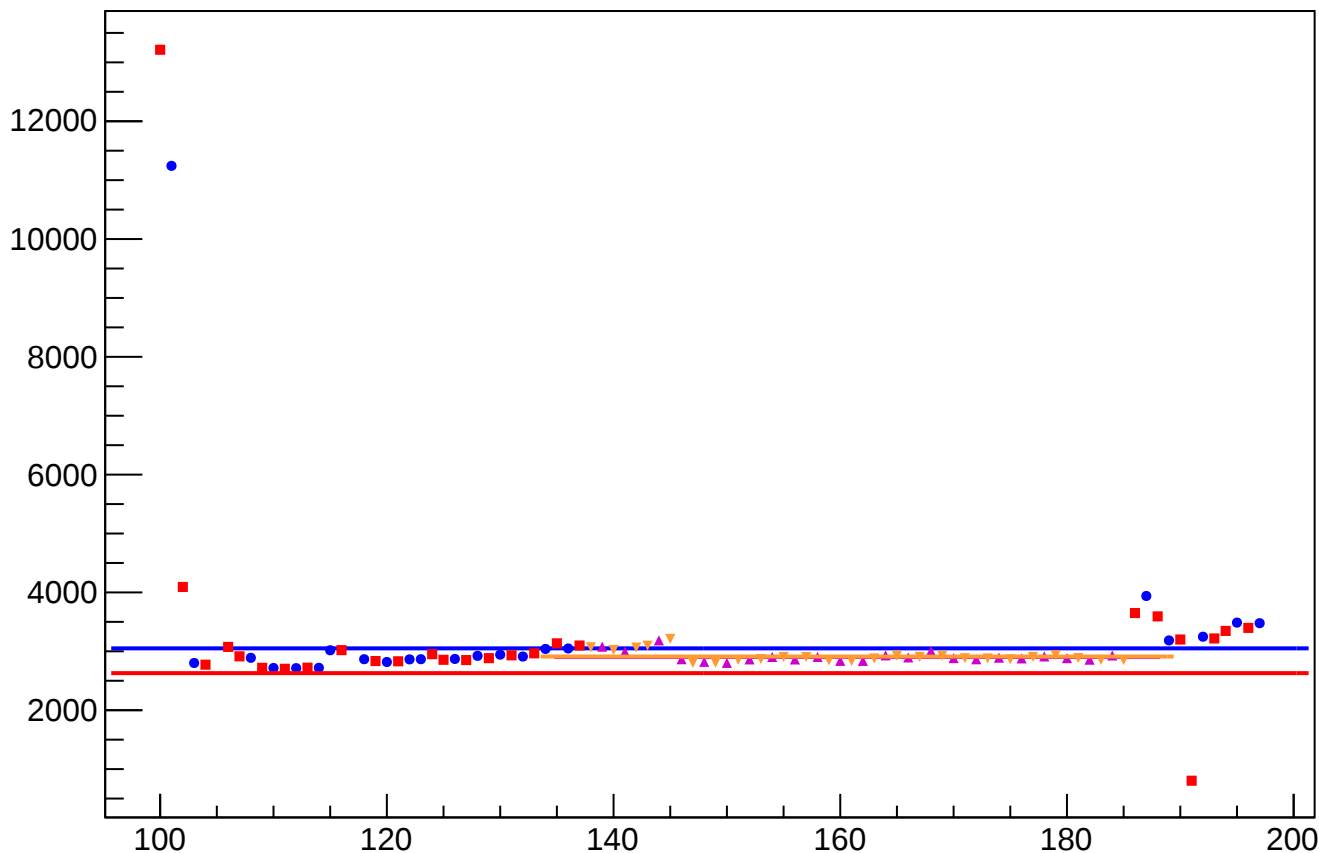
Right: 2076.807 $\pm$ 643.474 χ^2 /NDF: 41.6/47

In: 2507.821 $\pm$ 570.928 χ^2 /NDF: 54.8/44

Out: 2610.784 $\pm$ 528.152 χ^2 /NDF: 62.4/50

All: 2563.304 $\pm$ 387.701 χ^2 /NDF: 117.2/95

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3050.162+/-0.706 χ^2/NDF : 755578.1/21

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

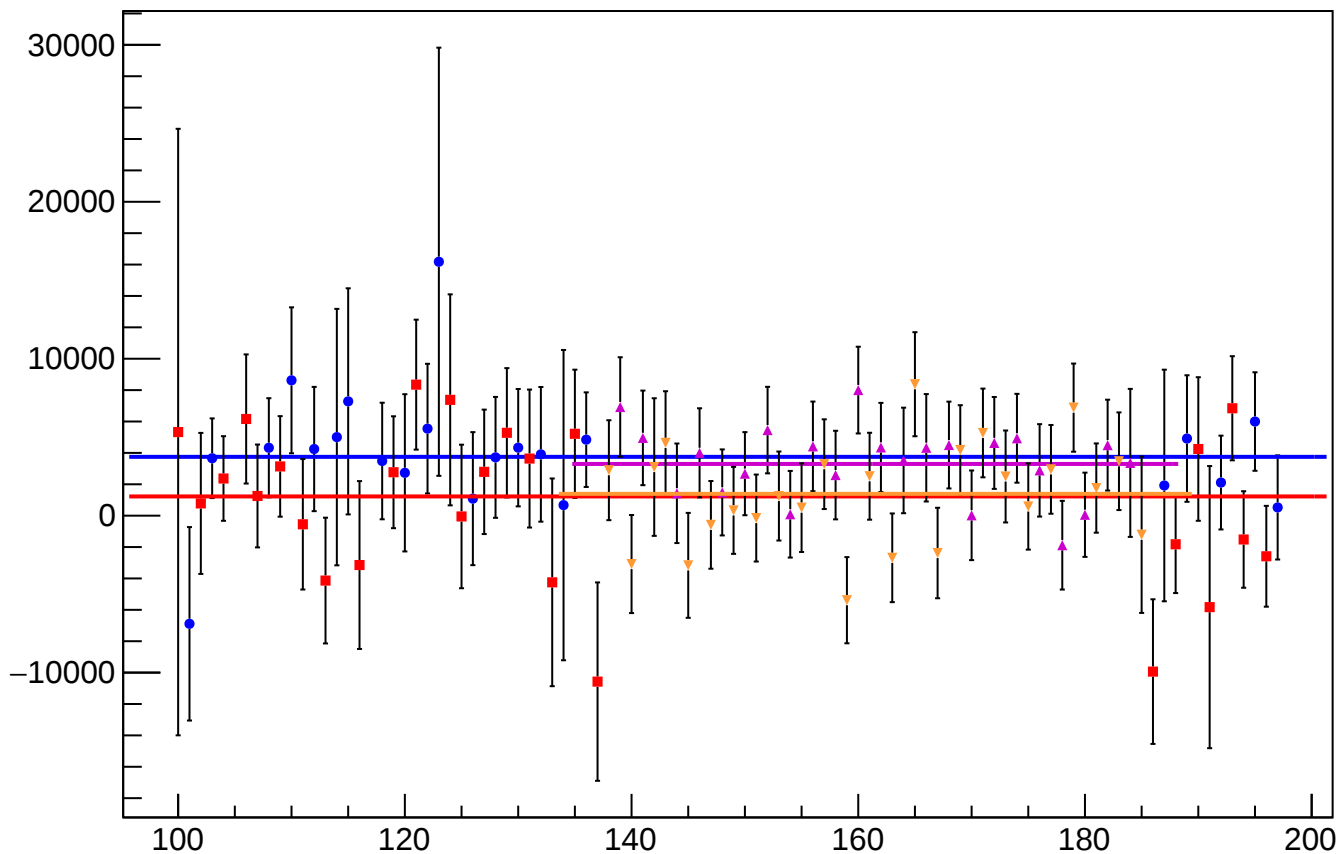
Right: 2804.030+/-0.455 χ^2/NDF : 3422985.9/47

In: 2951.356+/-0.404 χ^2/NDF : 813483.5/44

Out: 2800.165+/-0.373 χ^2/NDF : 2632422.6/50

All: 2869.885+/-0.274 χ^2/NDF : 3521484.6/95

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3748.424+/-858.784 χ^2/NDF : 8.0/21

Left Out: 1390.275+/-596.516 χ^2/NDF : 29.2/24

Right Out: 1224.771+/-793.542 χ^2/NDF : 28.2/25

Left In: 3295.367+/-609.991 χ^2/NDF : 14.9/22

Left: 2321.546+/-426.485 χ^2/NDF : 49.0/47

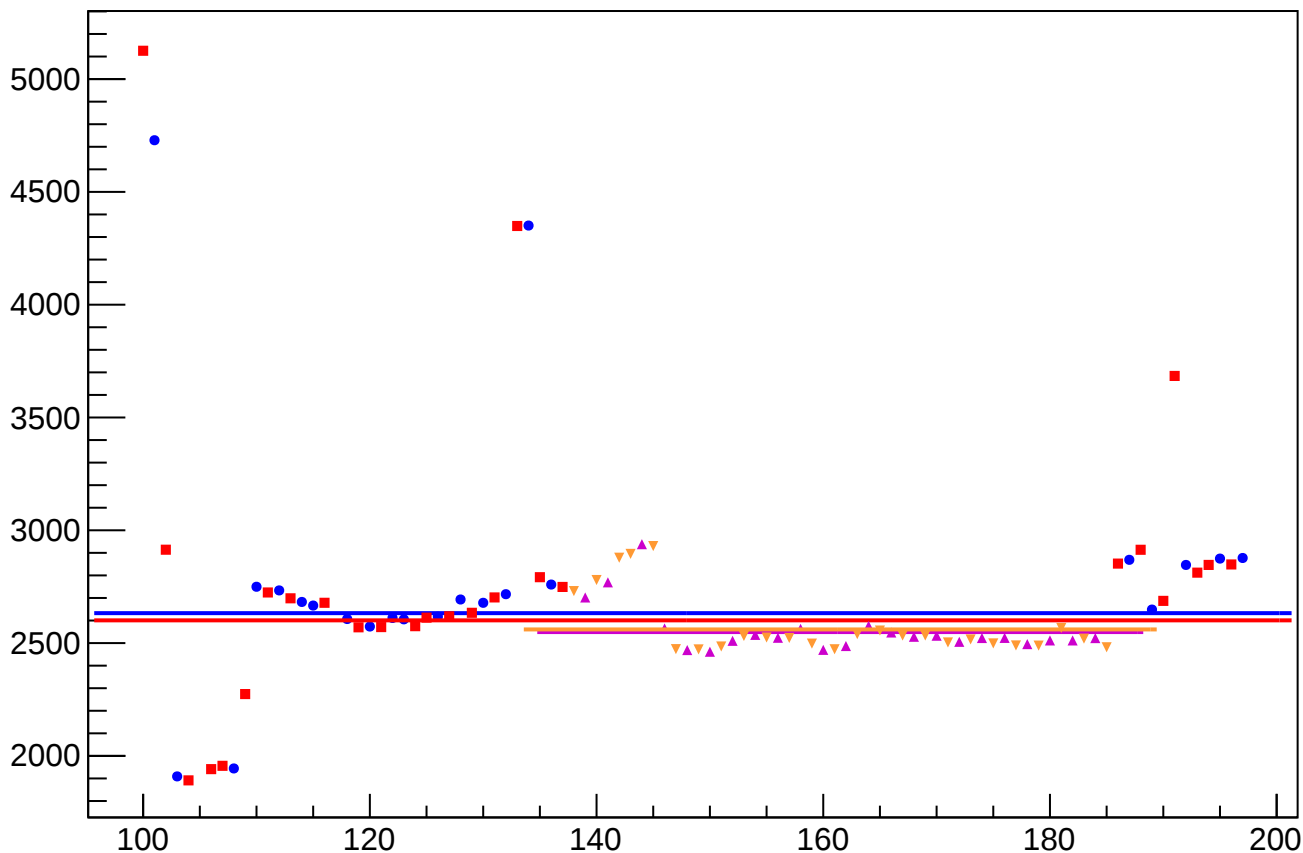
Right: 2387.105+/-582.821 χ^2/NDF : 40.9/47

In: 3447.293+/-497.307 χ^2/NDF : 23.1/44

Out: 1330.519+/-476.821 χ^2/NDF : 57.4/50

All: 2344.409+/-344.178 χ^2/NDF : 89.9/95

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2632.721+/-0.607 χ^2/NDF : 592702.8/21

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

Right Out: 2600.798+/-0.561 χ^2/NDF : 570751.8/25

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

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

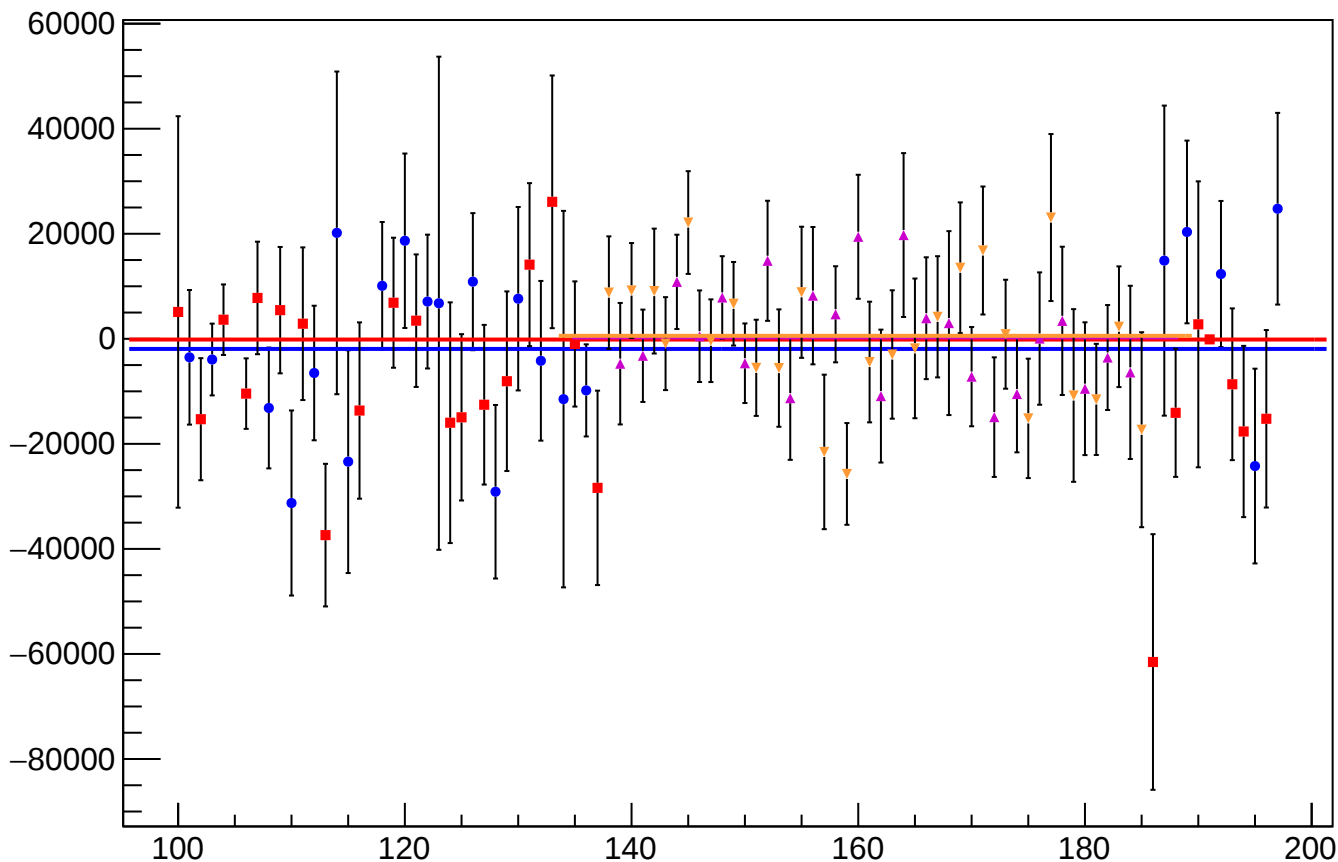
Right: 2615.501+/-0.412 χ^2/NDF : 1164945.4/47

In: 2576.988+/-0.352 χ^2/NDF : 660642.2/44

Out: 2575.070+/-0.337 χ^2/NDF : 660813.7/50

All: 2575.989+/-0.243 χ^2/NDF : 1321471.3/95

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -1926.862 $\pm$ 2999.589 χ^2/NDF : 20.0/21

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

Right Out: -138.235 $\pm$ 195.014 χ^2/NDF : 30.4/25

Left In: 275.116 $\pm$ 2242.836 χ^2/NDF : 15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2/NDF : 43.9/47

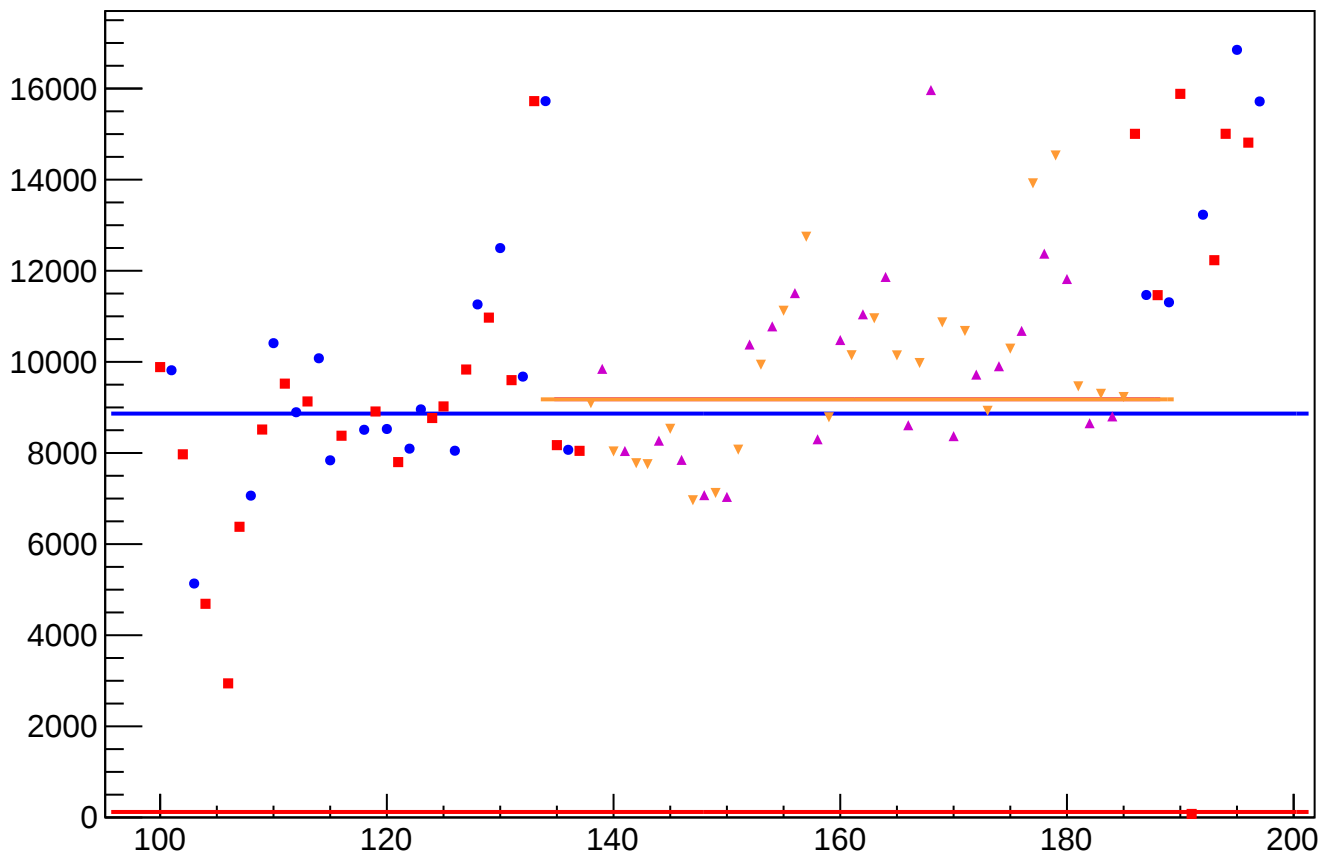
Right: -145.763 $\pm$ 194.603 χ^2/NDF : 50.8/47

In: -514.502 $\pm$ 1796.238 χ^2/NDF : 36.1/44

Out: -132.615 $\pm$ 194.241 χ^2/NDF : 58.7/50

All: -137.029 $\pm$ 193.115 χ^2/NDF : 94.8/95

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8864.864+/-2.121

χ^2/NDF : 1825787.6/21

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 157.275+/-0.138

χ^2/NDF : 39928818.7/47

Right Out: 120.470+/-0.138

χ^2/NDF : 21177820.5/25

In: 9067.798+/-1.270

χ^2/NDF : 3076529.3/44

Out: 192.088+/-0.137

χ^2/NDF : 56466790.5/50

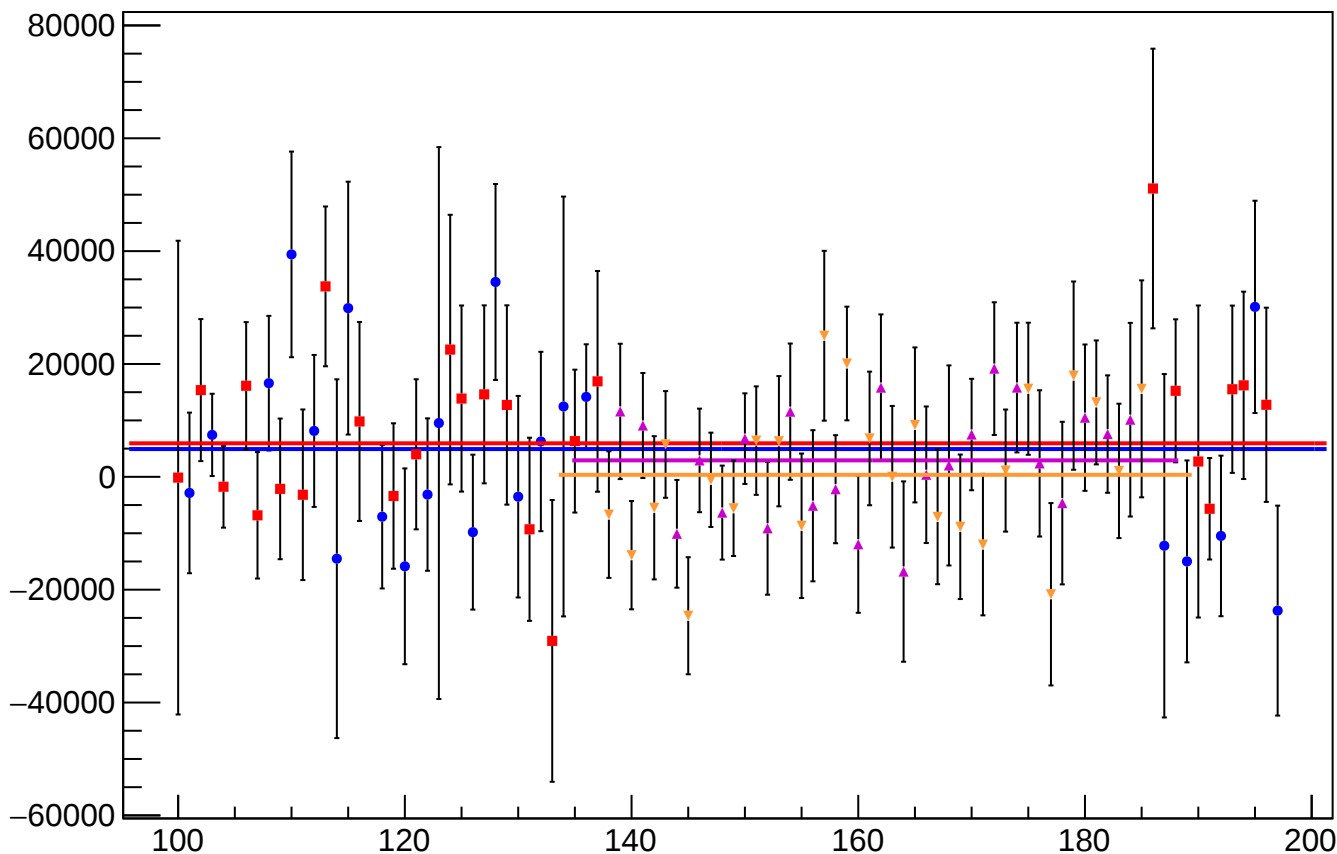
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 294.679+/-0.137

χ^2/NDF : 107811349.7/9

asym_atr2_mean vs Slug, Sign Corrected



Right In: 4921.382 $\pm$ 3154.883 χ^2 /NDF: 21.5/21

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

Right Out: 5941.648 $\pm$ 2748.310 χ^2 /NDF: 19.9/25

Left In: 2918.356 $\pm$ 2338.461 χ^2 /NDF:14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2 /NDF: 41.8/47

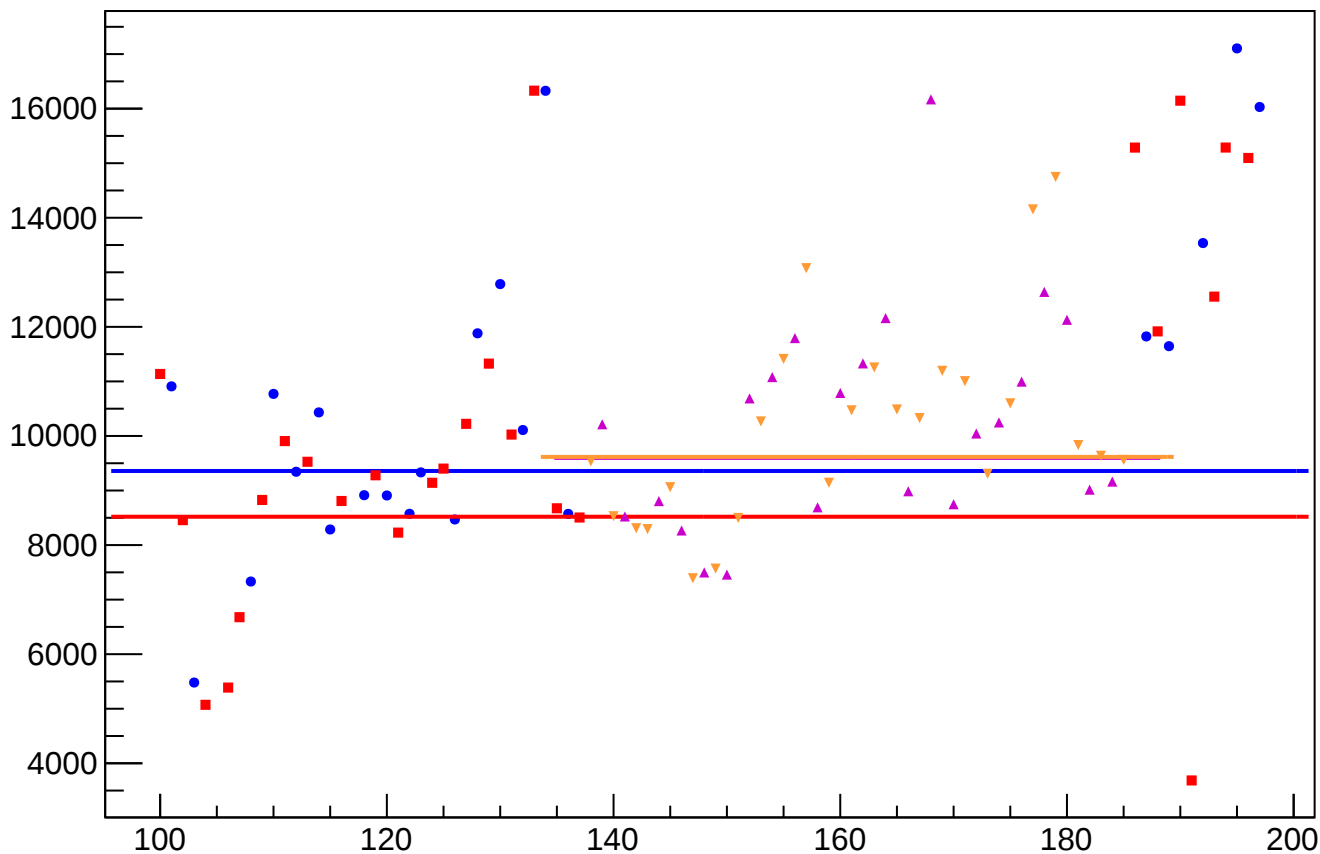
Right: 5501.453 $\pm$ 2072.284 χ^2 /NDF: 41.5/47

In: 3628.612 $\pm$ 1878.657 χ^2 /NDF:36.7/44

Out: 2634.903 $\pm$ 1755.528 χ^2 /NDF:48.6/50

All: 3098.129 $\pm$ 1282.668 χ^2 /NDF: 85.4/95

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9358.257+/-2.231 χ^2/NDF : 1704194.7/21

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 8519.420+/-1.943 χ^2/NDF : 2794411.9/25

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

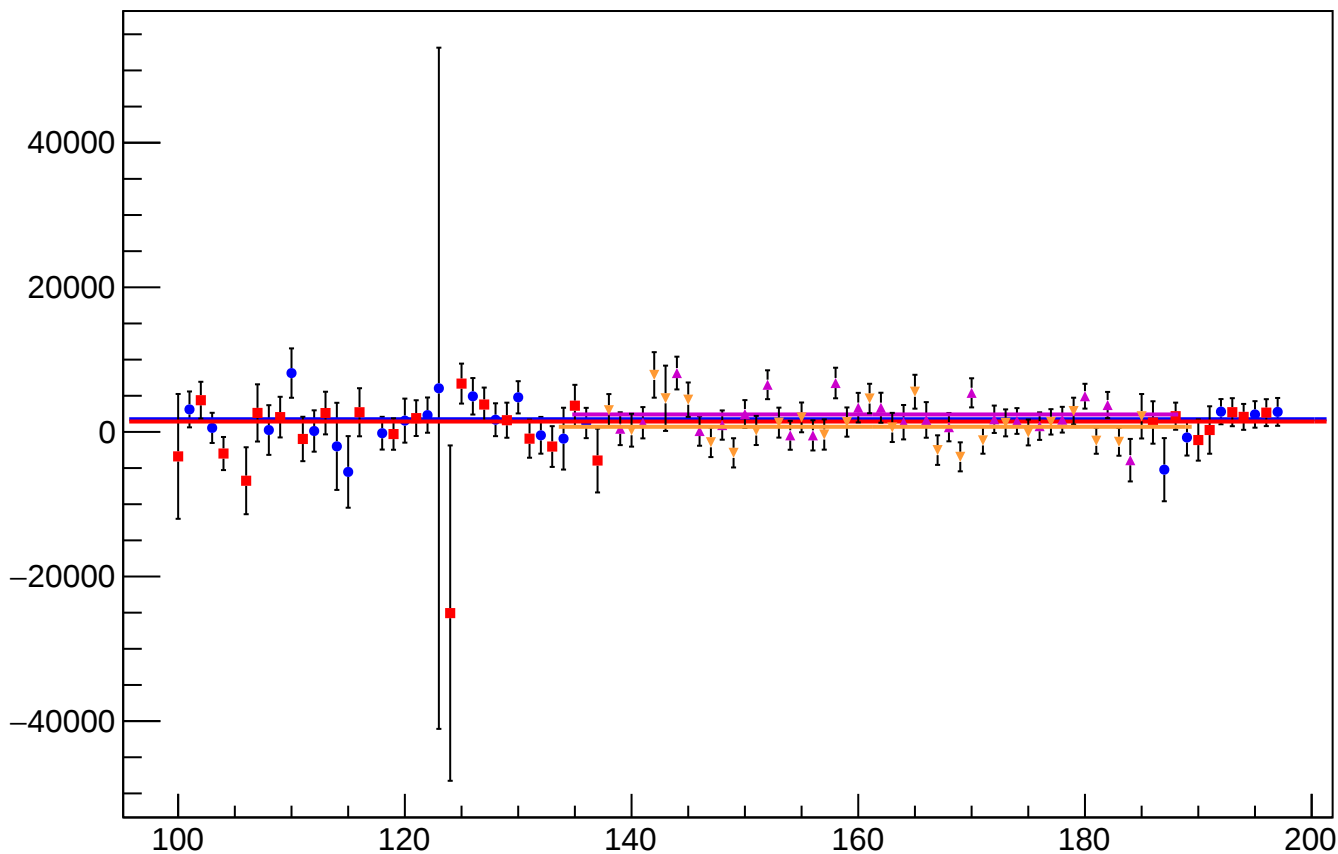
Right: 8881.322+/-1.465 χ^2/NDF : 4578996.1/47

In: 9513.332+/-1.328 χ^2/NDF : 2793853.4/44

Out: 9168.697+/-1.241 χ^2/NDF : 3994658.3/50

All: 9329.349+/-0.907 χ^2/NDF : 6824442.9/95

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1754.767+/-548.672 χ^2/NDF : 17.0/21

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

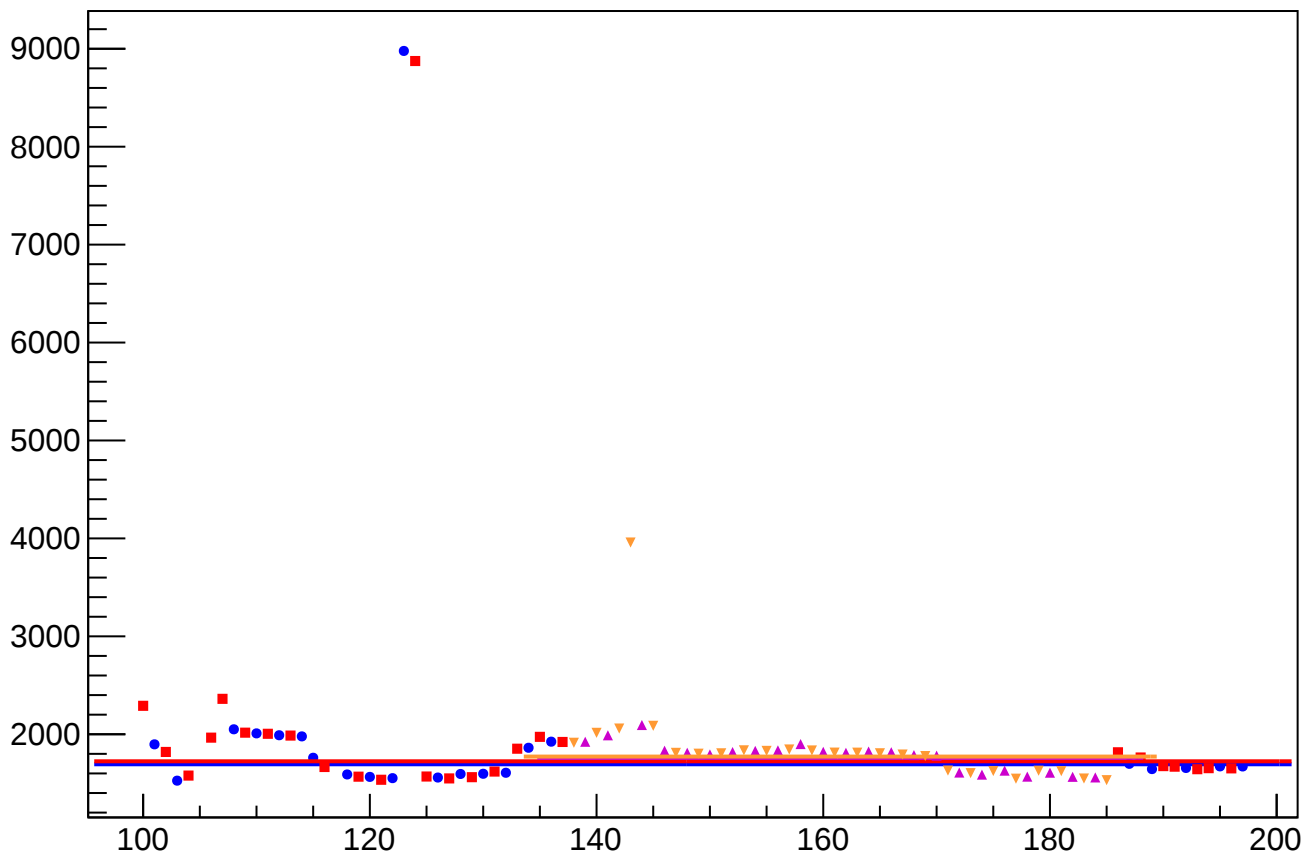
Right: 1586.966+/-377.643 χ^2/NDF : 39.8/47

In: 2168.369+/-335.235 χ^2/NDF : 51.9/44

Out: 993.876+/-325.636 χ^2/NDF : 58.7/50

All: 1564.067+/-233.579 χ^2/NDF : 116.8/95

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1693.550+/-0.388 χ^2/NDF : 198984.5/21

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

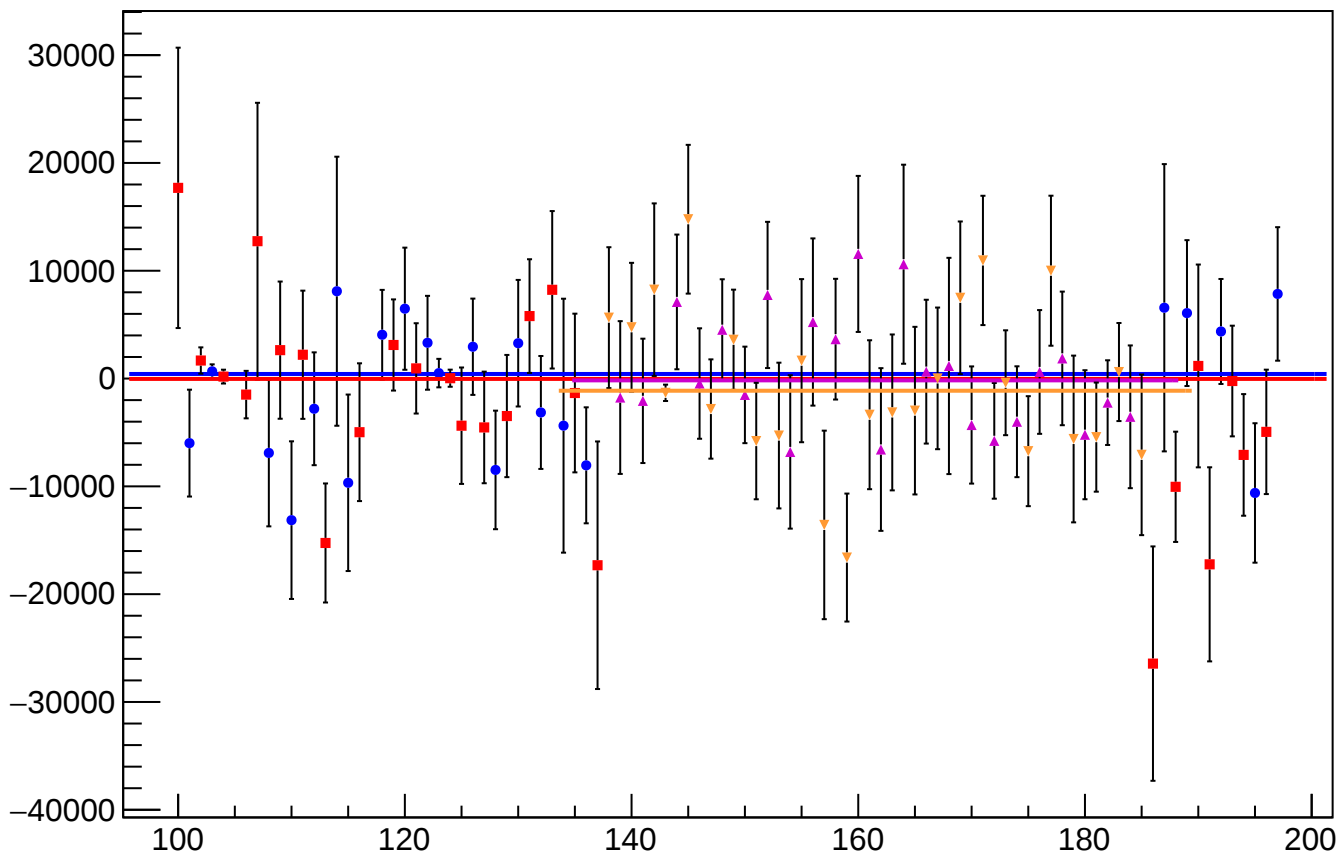
Right: 1709.594+/-0.267 χ^2/NDF : 614705.6/47

In: 1734.942+/-0.237 χ^2/NDF : 432039.3/44

Out: 1753.168+/-0.230 χ^2/NDF : 1125374.5/50

All: 1744.329+/-0.165 χ^2/NDF : 1560458.5/95

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 424.847 ± 531.451 $\chi^2/\text{NDF}: 23.2/21$

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 $\chi^2/\text{NDF}: 46.1/47$

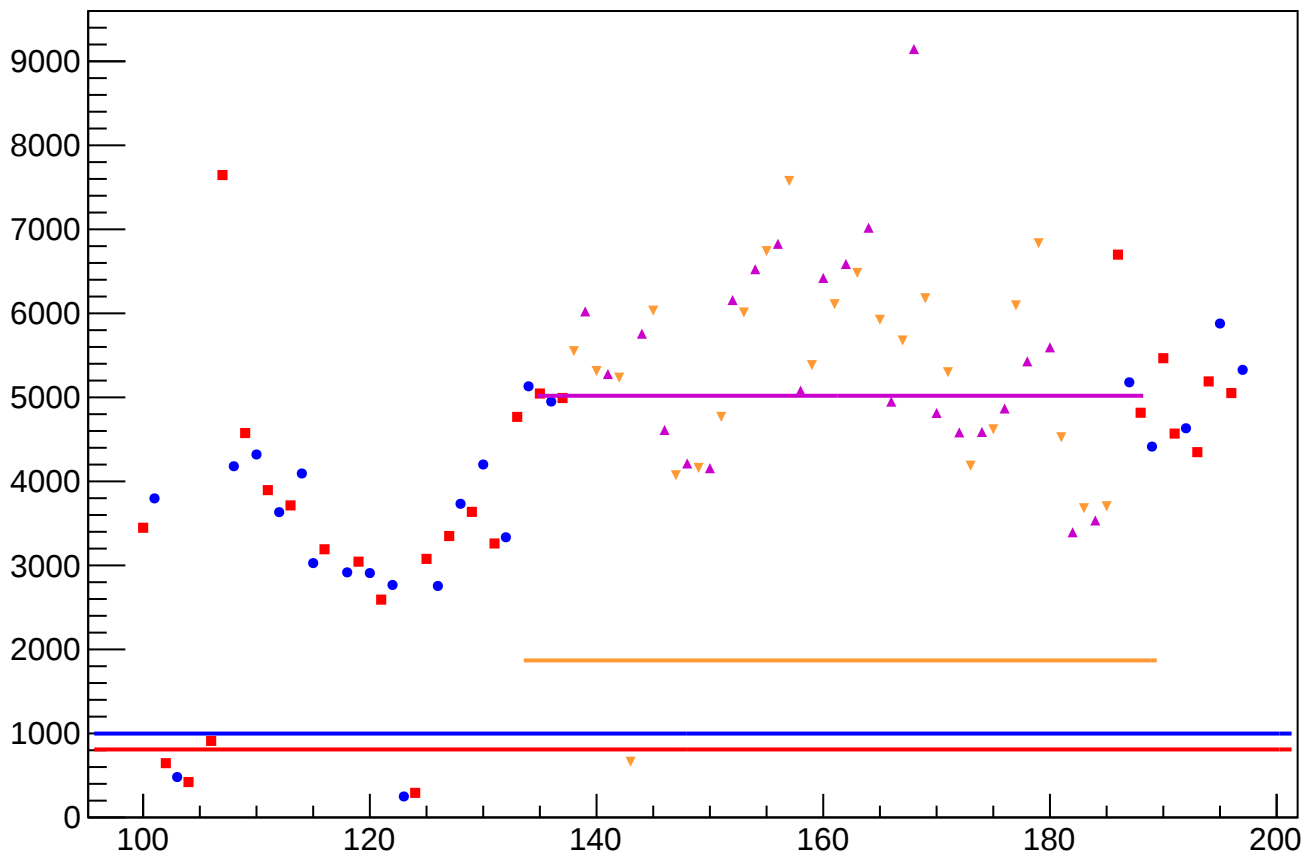
Right: 145.997 ± 332.826 $\chi^2/\text{NDF}: 60.4/47$

In: 331.860 ± 488.009 $\chi^2/\text{NDF}: 37.6/44$

Out: -365.909 ± 356.432 $\chi^2/\text{NDF}: 70.2/50$

All: -123.171 ± 287.834 $\chi^2/\text{NDF}: 109.2/95$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 998.408 $\pm$ 0.376 χ^2 /NDF: 12198997.2/21

Left Out: 1868.983 $\pm$ 0.458 χ^2 /NDF:19852416.6/24

Right Out: 809.298 $\pm$ 0.302 χ^2 /NDF: 14434469.0/25

Left In: 5019.114 $\pm$ 0.871 χ^2 /NDF:1569031.9/22

Left: 2550.597 $\pm$ 0.405 χ^2 /NDF: 31661059.7/47

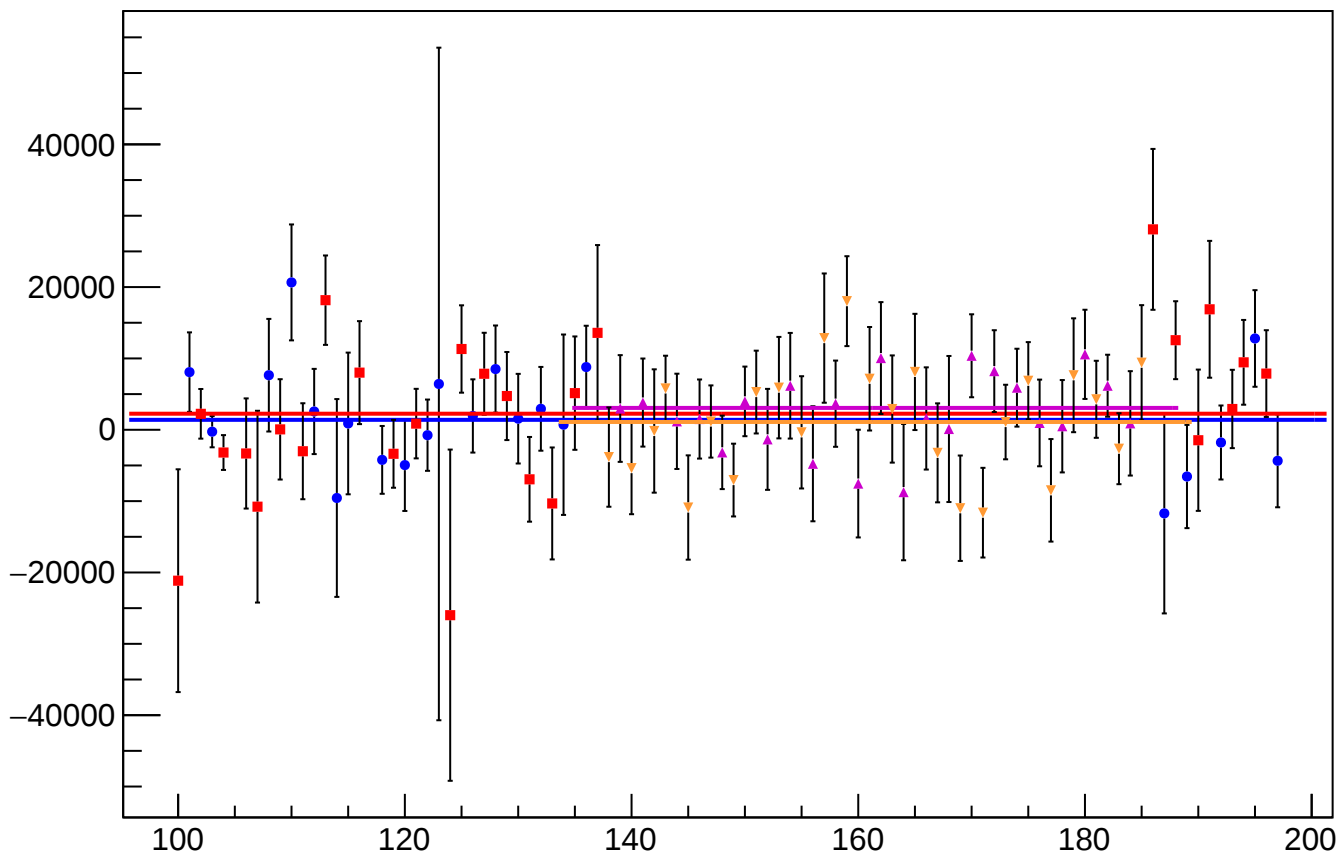
Right: 883.467 $\pm$ 0.235 χ^2 /NDF: 26787385.0/47

In: 1628.853 $\pm$ 0.345 χ^2 /NDF:31717602.8/44

Out: 1130.307 $\pm$ 0.252 χ^2 /NDF:38019797.0/50

All: 1303.740 $\pm$ 0.204 χ^2 /NDF: 71098574.0/95

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1393.498 $\pm$ 1206.848 χ^2 /NDF: 20.6/21

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 2252.675 $\pm$ 1152.047 χ^2 /NDF: 42.3/25

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

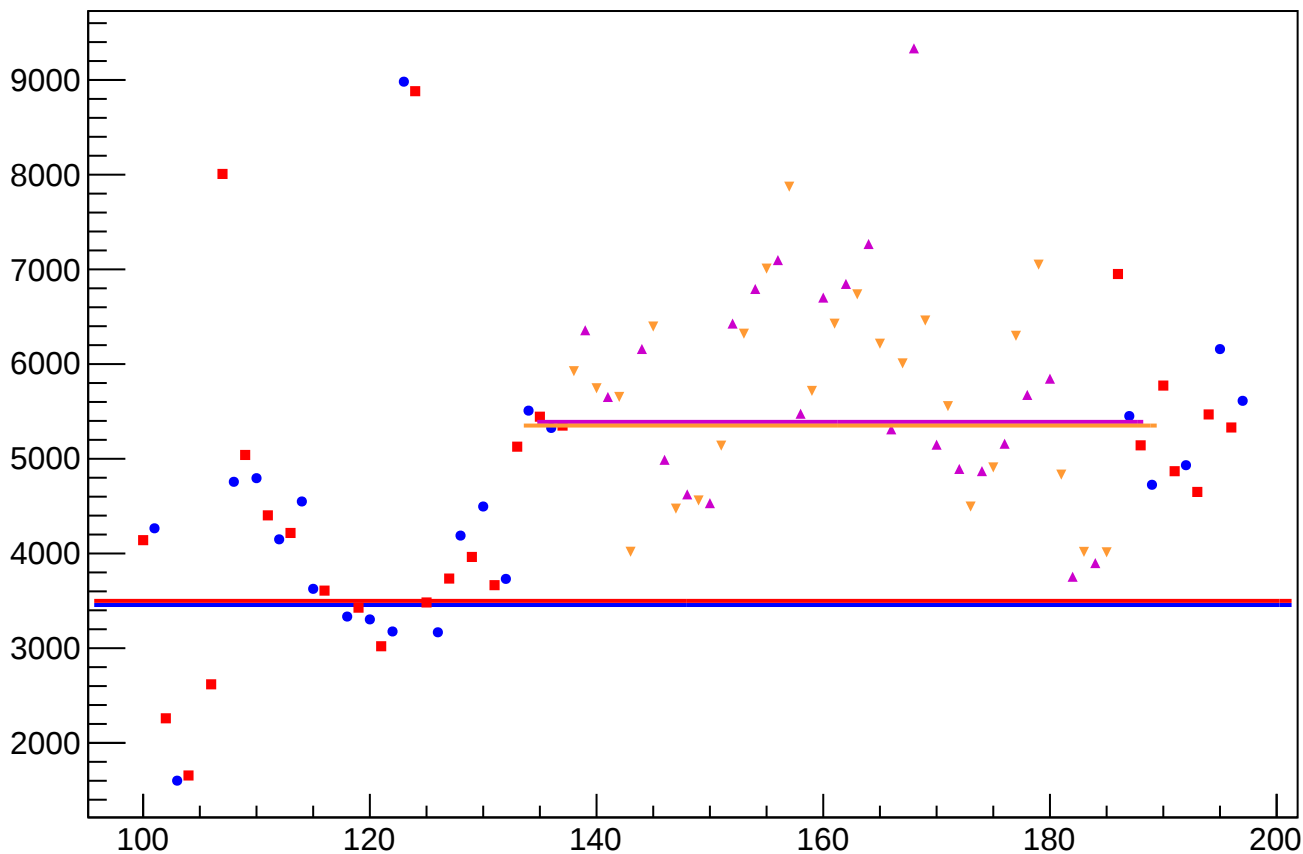
Right: 1843.036 $\pm$ 833.320 χ^2 /NDF: 63.2/47

In: 2155.595 $\pm$ 890.130 χ^2 /NDF:34.1/44

Out: 1731.178 $\pm$ 854.223 χ^2 /NDF:74.7/50

All: 1934.654 $\pm$ 616.330 χ^2 /NDF: 108.9/95

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3455.937 $\pm$ 0.853

χ^2 /NDF: 2821261.9/21

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

Right: 3479.068 $\pm$ 0.586 χ^2 /NDF: 6057608.7/47

Right Out: 3499.658 $\pm$ 0.805

χ^2 /NDF: 3234958.1/25

In: 4337.734 $\pm$ 0.629 χ^2 /NDF: 6472684.4/44

Out: 4322.311 $\pm$ 0.600

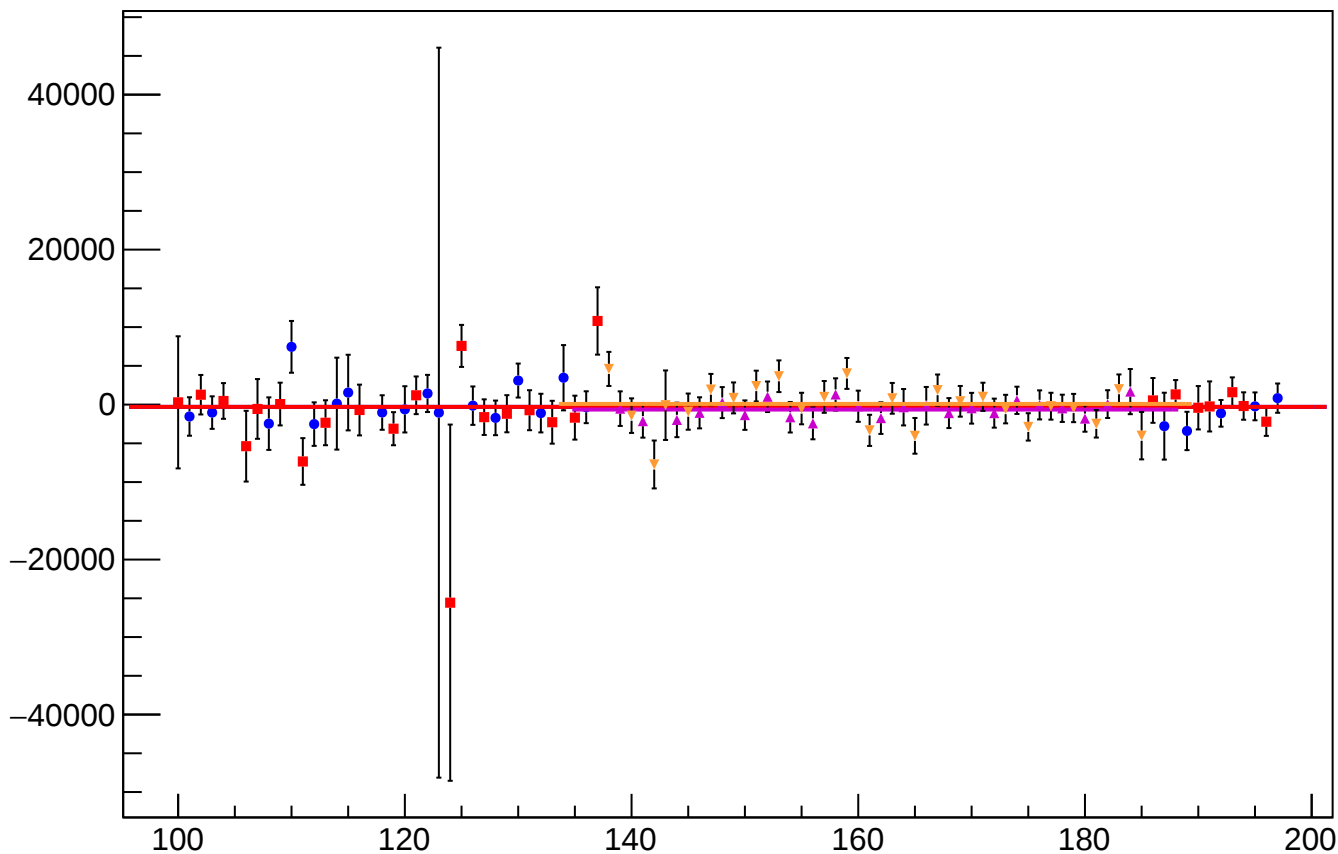
χ^2 /NDF: 6825755.3/50

Left In: 5389.724 $\pm$ 0.932

χ^2 /NDF: 1309863.0/22

All: 4329.655 $\pm$ 0.434 χ^2 /NDF: 13298754.2/95

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -294.937 ± 540.753 $\chi^2/\text{NDF}: 13.8/21$

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 $\chi^2/\text{NDF}: 43.7/47$

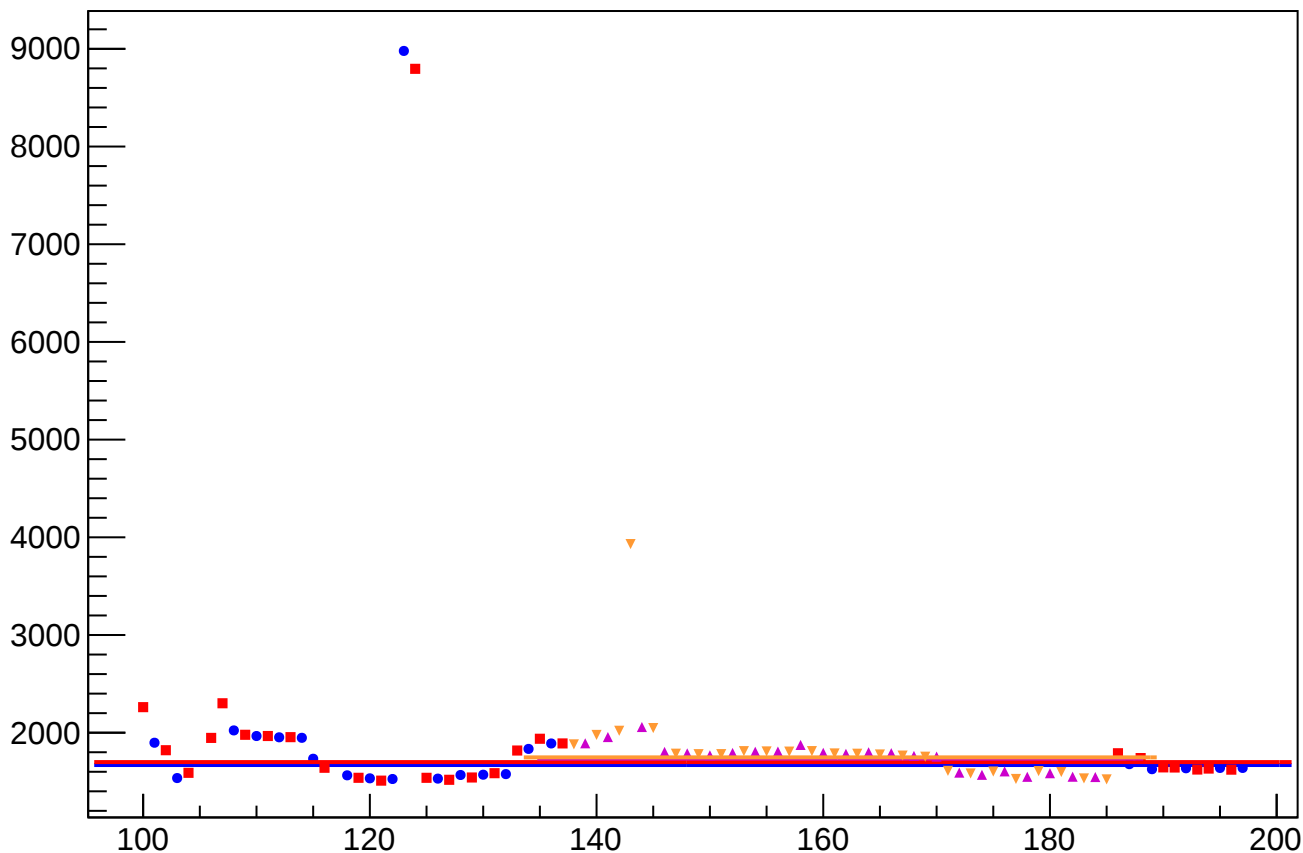
Right: -294.496 ± 372.166 $\chi^2/\text{NDF}: 43.9/47$

In: -511.220 ± 330.538 $\chi^2/\text{NDF}: 20.2/44$

Out: -62.703 ± 321.003 $\chi^2/\text{NDF}: 66.5/50$

All: -280.399 ± 230.281 $\chi^2/\text{NDF}: 87.7/95$

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1669.158+/-0.382 χ^2/NDF : 197514.8/21

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

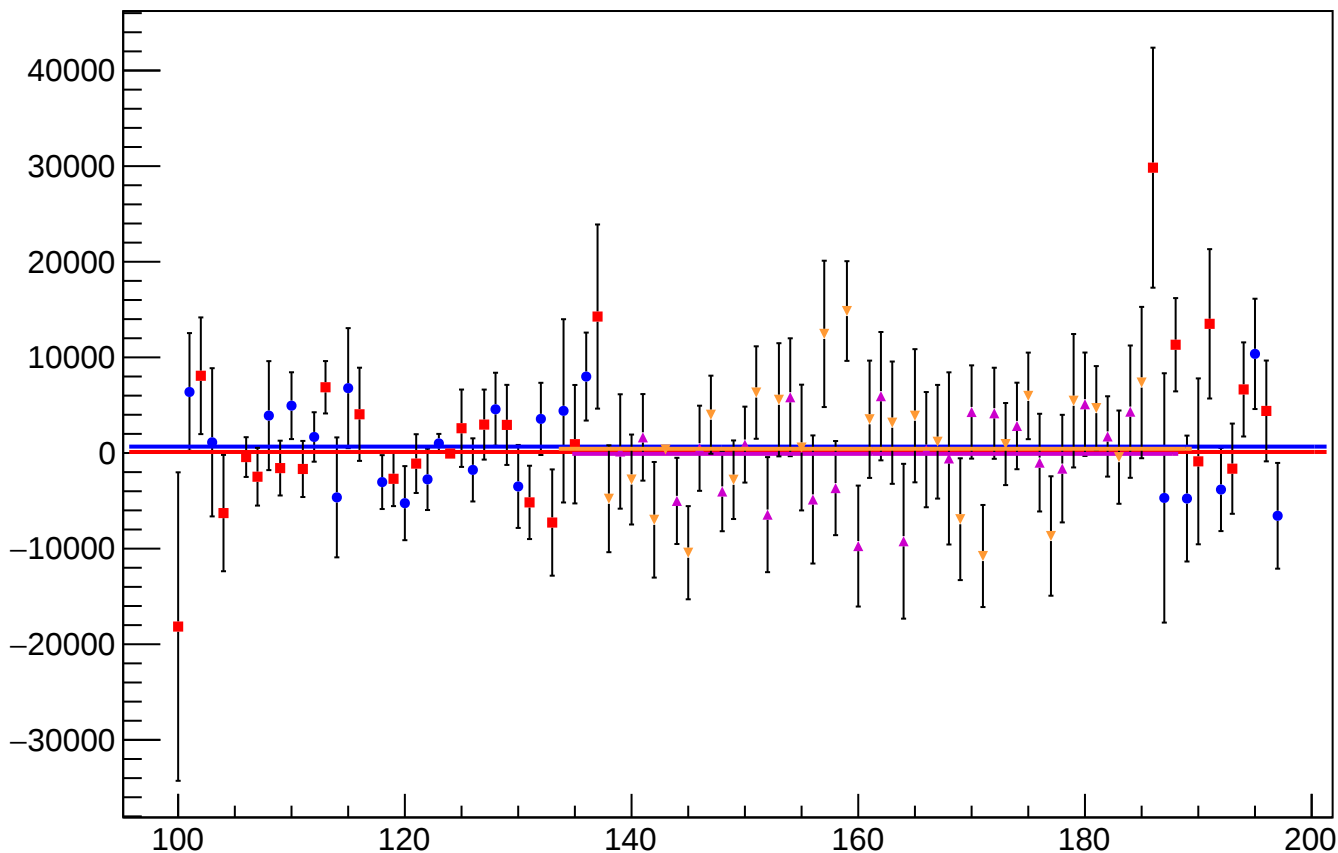
Right: 1685.002+/-0.263 χ^2/NDF : 609803.6/47

In: 1710.738+/-0.234 χ^2/NDF : 423160.2/44

Out: 1728.413+/-0.227 χ^2/NDF : 1117974.4/50

All: 1719.843+/-0.163 χ^2/NDF : 1544080.7/95

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 668.488 $\pm$ 682.596 χ^2 /NDF: 22.1/21

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

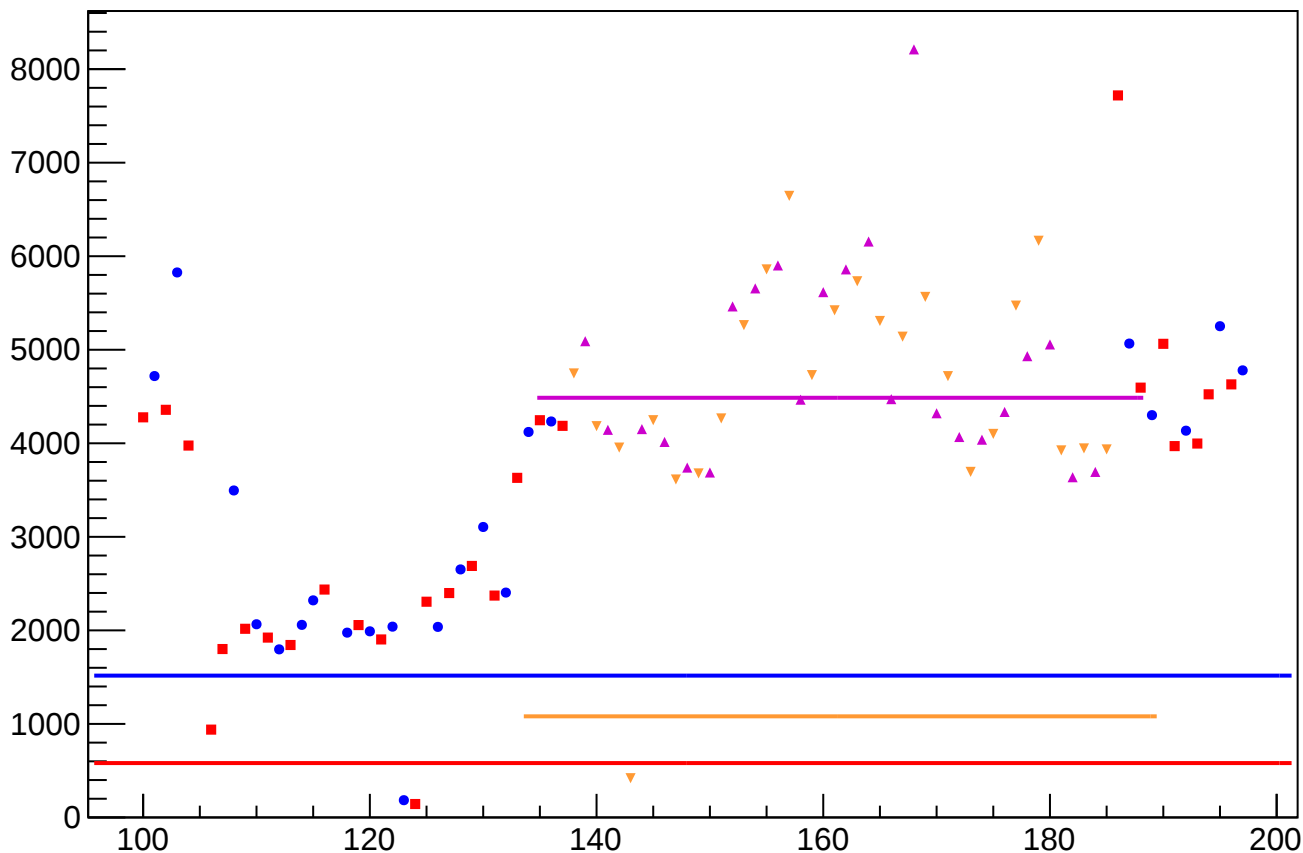
Right: 225.599 $\pm$ 313.431 χ^2 /NDF: 60.0/47

In: 456.599 $\pm$ 579.239 χ^2 /NDF:35.9/44

Out: 238.223 $\pm$ 275.340 χ^2 /NDF:71.6/50

All: 278.472 $\pm$ 248.675 χ^2 /NDF: 107.6/95

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1516.314 $\pm$ 0.483

χ^2 /NDF: 9473347.3/21

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: 778.513 $\pm$ 0.222

χ^2 /NDF: 29133426.8/47

In: 2347.713 $\pm$ 0.410

χ^2 /NDF: 21254942.8/44

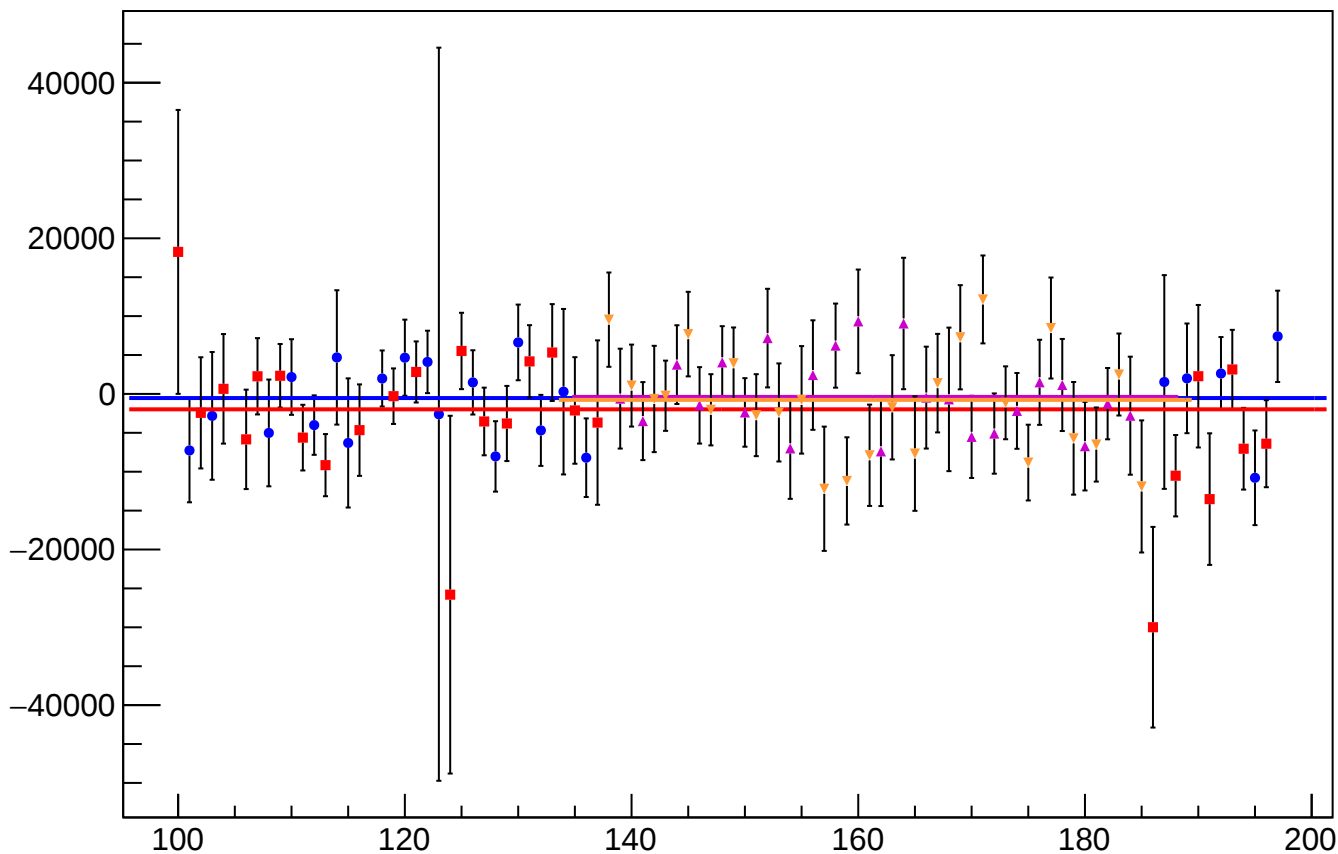
Out: 776.739 $\pm$ 0.195

χ^2 /NDF: 42723481.6/50

All: 1066.285 $\pm$ 0.176

χ^2 /NDF: 75978319.9/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -532.512 ± 1153.665 $\chi^2/\text{NDF}: 20.0/21$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -1981.696 ± 1068.145 $\chi^2/\text{NDF}: 28.4/25$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

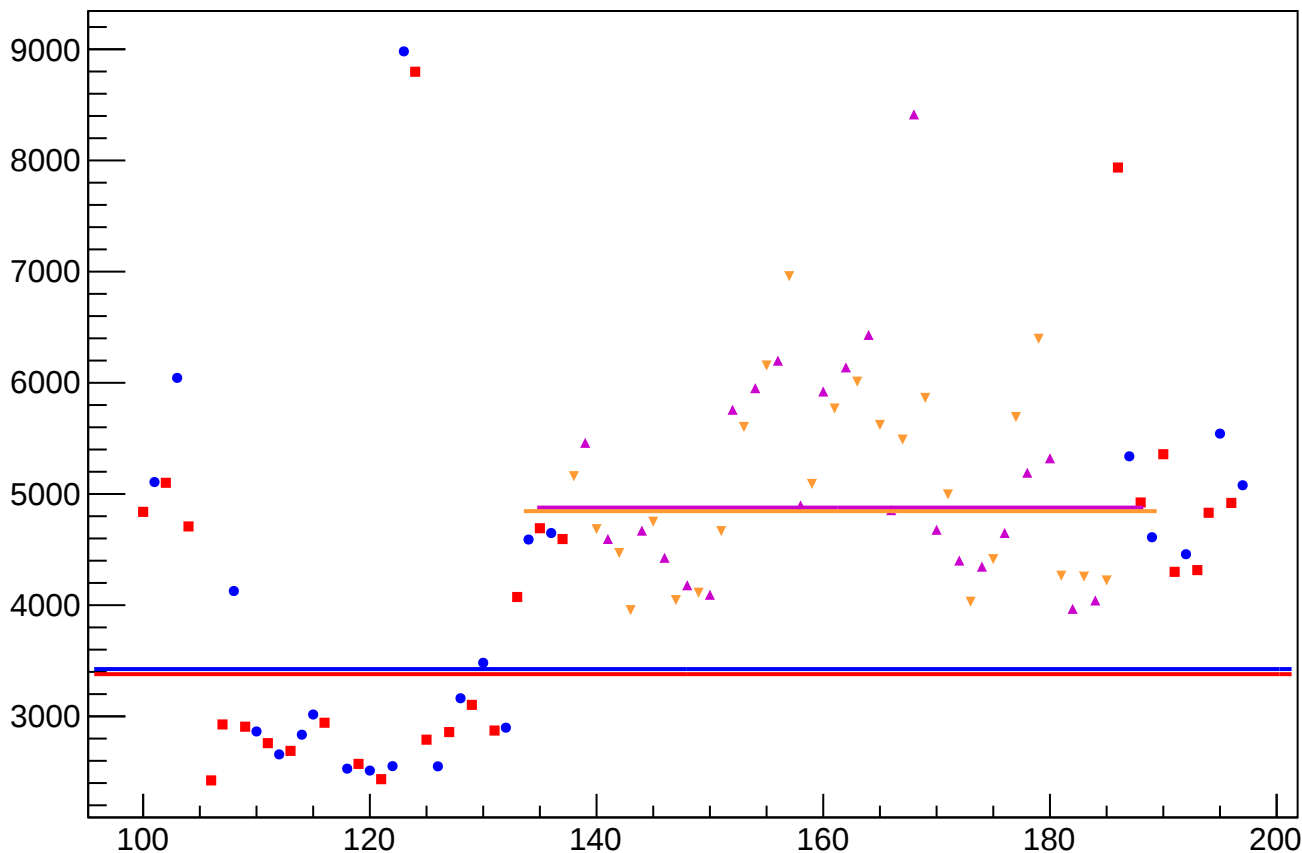
Right: -1312.802 ± 783.784 $\chi^2/\text{NDF}: 49.2/47$

In: -462.730 ± 827.061 $\chi^2/\text{NDF}: 34.2/44$

Out: -1417.269 ± 781.802 $\chi^2/\text{NDF}: 58.9/50$

All: -966.831 ± 568.144 $\chi^2/\text{NDF}: 93.8/95$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3425.290 ± 0.816 $\chi^2/\text{NDF}: 1647165.5/21$

Left Out: 4845.779 ± 0.811 $\chi^2/\text{NDF}: 909173.9/24$

Right Out: 3379.468 ± 0.748 $\chi^2/\text{NDF}: 1889981.1/25$

Left In: 4877.456 ± 0.839 $\chi^2/\text{NDF}: 958623.2/22$

Left: 4861.089 ± 0.583 $\chi^2/\text{NDF}: 1868533.9/47$

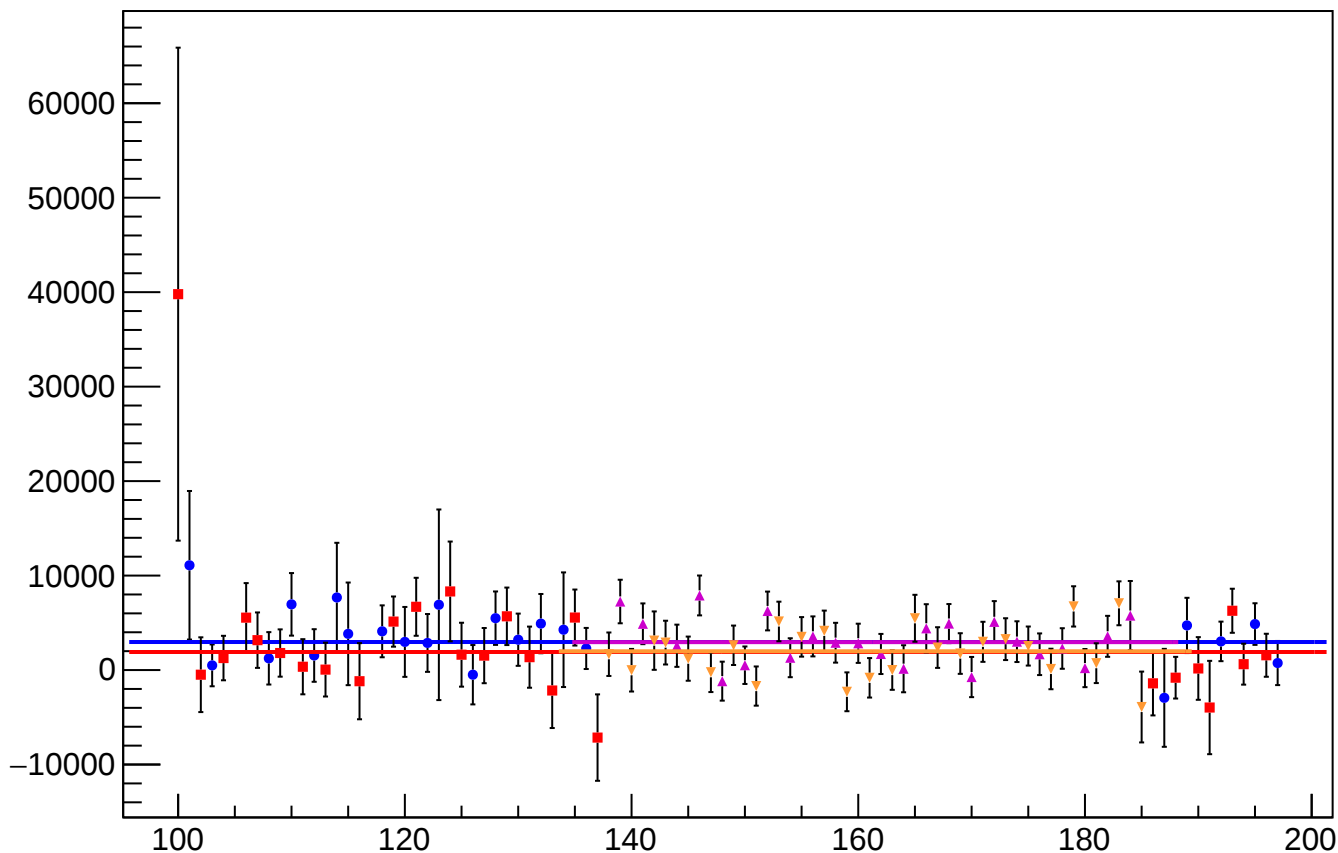
Right: 3400.388 ± 0.551 $\chi^2/\text{NDF}: 3538861.2/47$

In: 4131.121 ± 0.585 $\chi^2/\text{NDF}: 4146038.1/44$

Out: 4052.892 ± 0.550 $\chi^2/\text{NDF}: 4565432.4/50$

All: 4089.595 ± 0.401 $\chi^2/\text{NDF}: 8720968.6/95$

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2968.474+/-642.086 χ^2/NDF : 11.3/21

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

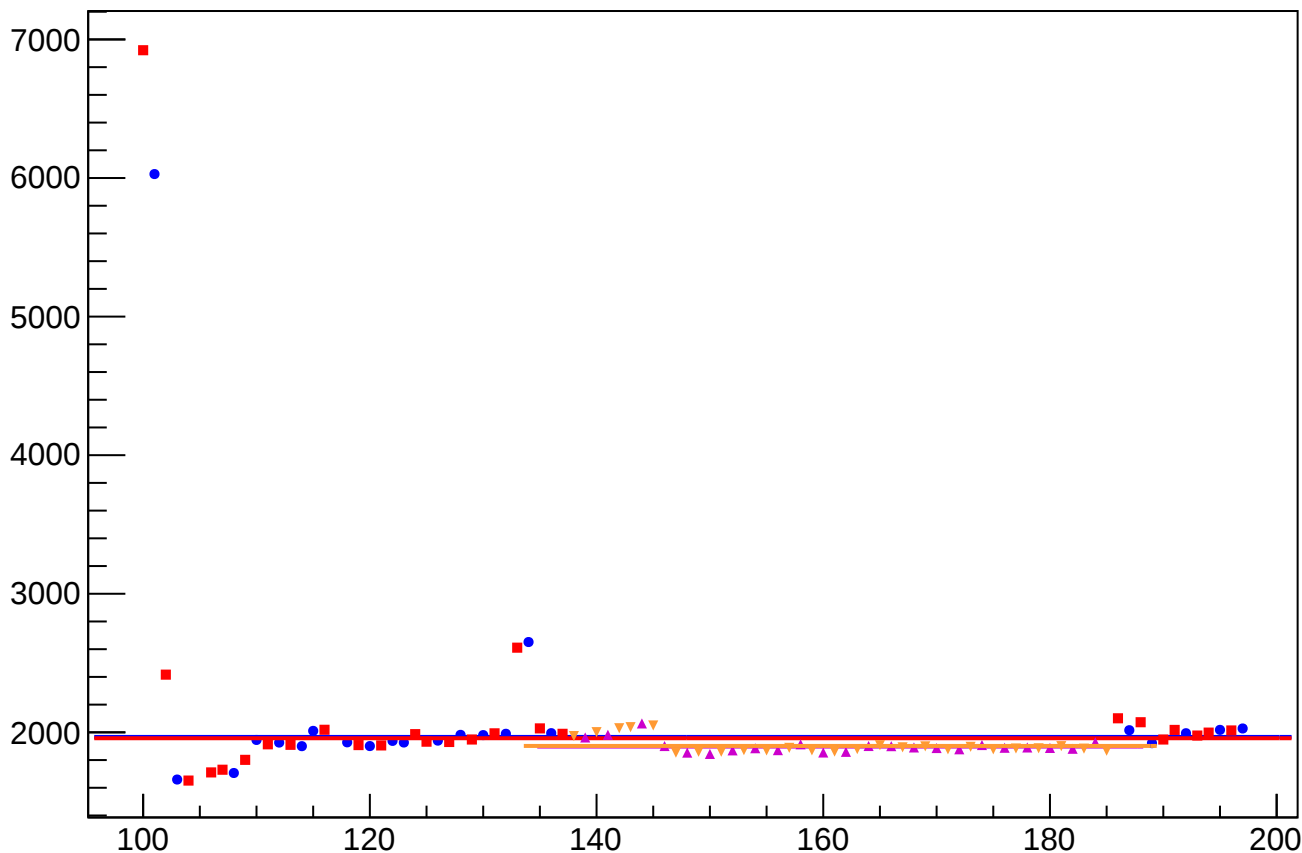
Right: 2399.379+/-436.213 χ^2/NDF : 39.3/47

In: 2960.098+/-370.995 χ^2/NDF : 39.7/44

Out: 1959.071+/-355.312 χ^2/NDF : 59.0/50

All: 2437.979+/-256.609 χ^2/NDF : 102.5/95

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1966.838 $\pm$ 0.454 χ^2 /NDF: 621519.6/21

Left Out: 1901.884 $\pm$ 0.313 χ^2 /NDF: 30446.9/24

Right Out: 1957.431 $\pm$ 0.420 χ^2 /NDF: 233028.6/25

Left In: 1897.456 $\pm$ 0.321 χ^2 /NDF: 21180.1/22

Left: 1899.726 $\pm$ 0.224 χ^2 /NDF: 51724.3/47

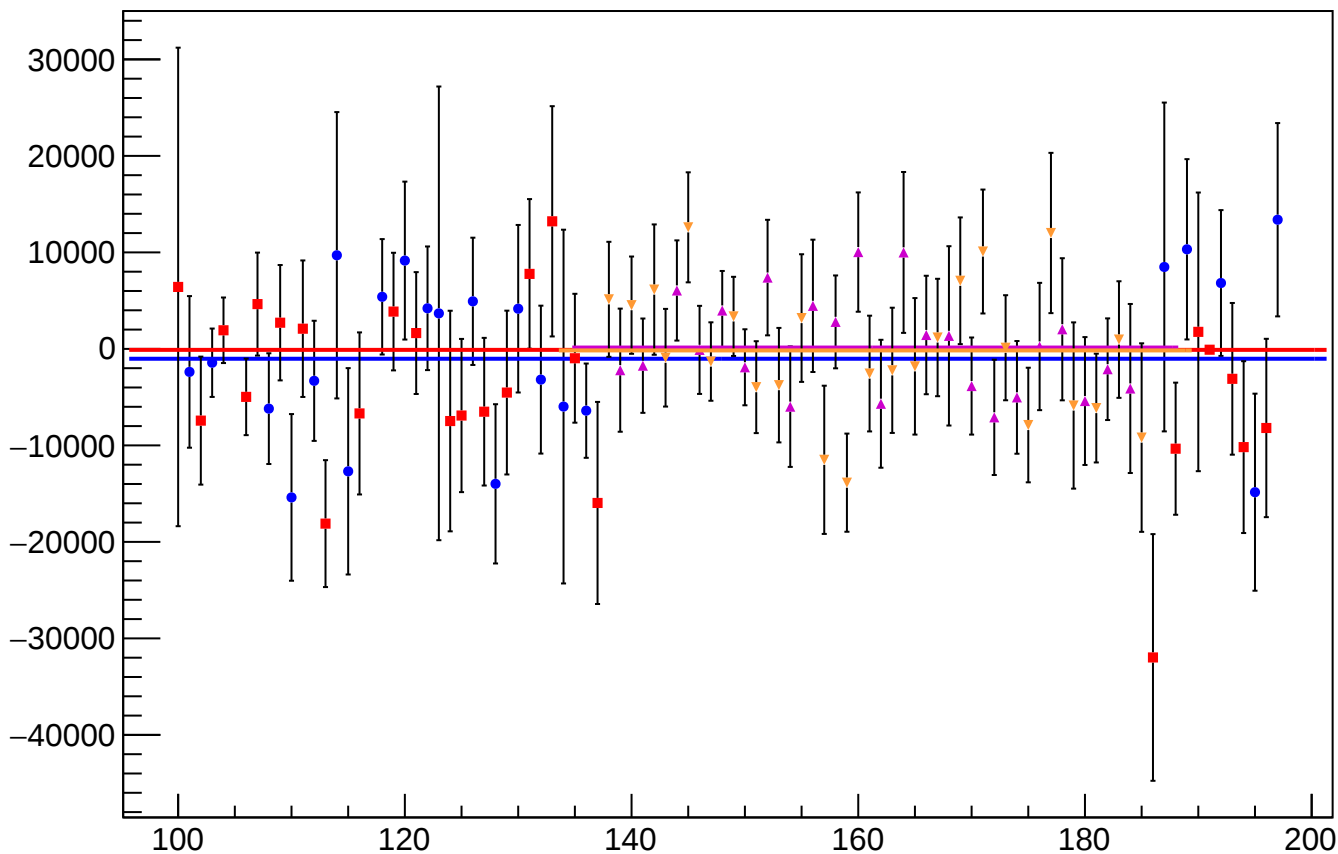
Right: 1961.766 $\pm$ 0.308 χ^2 /NDF: 854779.6/47

In: 1920.619 $\pm$ 0.262 χ^2 /NDF: 658256.4/44

Out: 1921.767 $\pm$ 0.251 χ^2 /NDF: 274721.2/50

All: 1921.218 $\pm$ 0.181 χ^2 /NDF: 932987.6/95

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1022.707 $\pm$ 1556.620 χ^2 /NDF: 20.6/21

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -101.272 $\pm$ 109.598 χ^2 /NDF: 30.3/25

Left In: 139.000 $\pm$ 1190.889 χ^2 /NDF:14.7/22

Left: -12.420 $\pm$ 833.090 χ^2 /NDF: 44.2/47

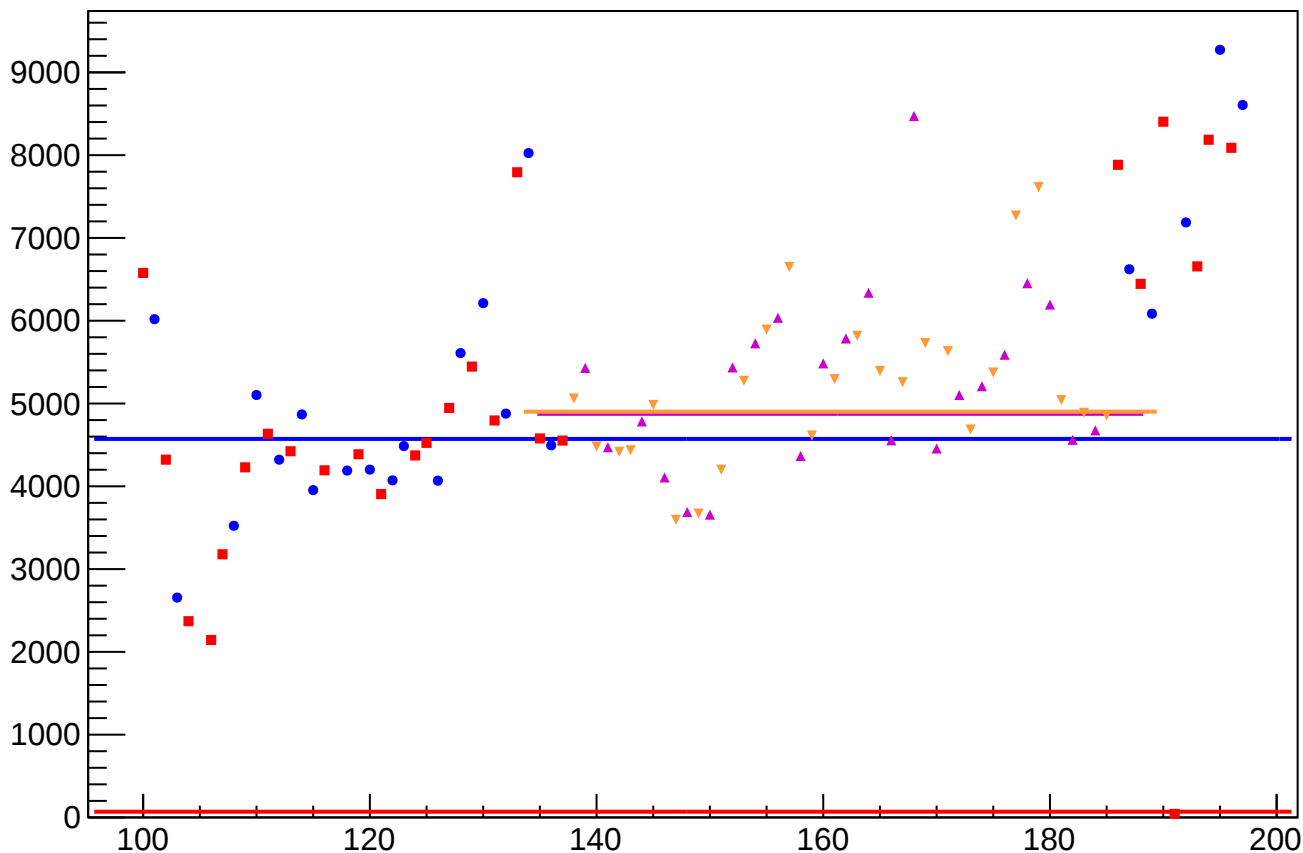
Right: -105.817 $\pm$ 109.327 χ^2 /NDF: 51.3/47

In: -289.907 $\pm$ 945.836 χ^2 /NDF:35.7/44

Out: -101.765 $\pm$ 109.117 χ^2 /NDF:59.8/50

All: -104.236 $\pm$ 108.398 χ^2 /NDF: 95.5/95

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4572.348 $\pm$ 1.101 χ^2 /NDF: 2021324.6/21

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

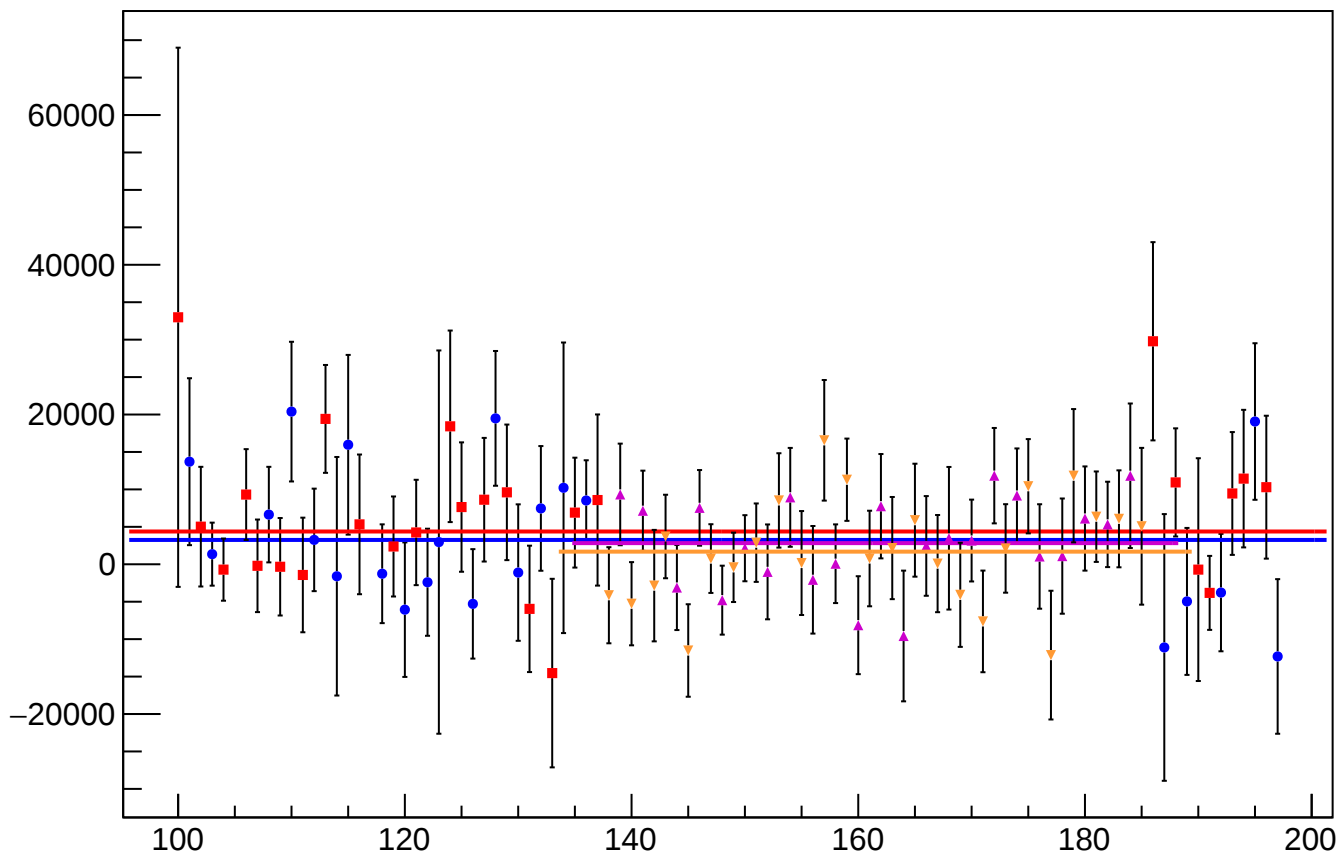
Right: 91.556 $\pm$ 0.077 χ^2 /NDF: 39911393.8/47

In: 4763.331 $\pm$ 0.669 χ^2 /NDF:3298249.3/44

Out: 111.672 $\pm$ 0.077 χ^2 /NDF:56428095.6/50

All: 172.769 $\pm$ 0.077 χ^2 /NDF: 107465186.1/95

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3250.049+/-1734.499 χ^2/NDF : 21.0/21

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

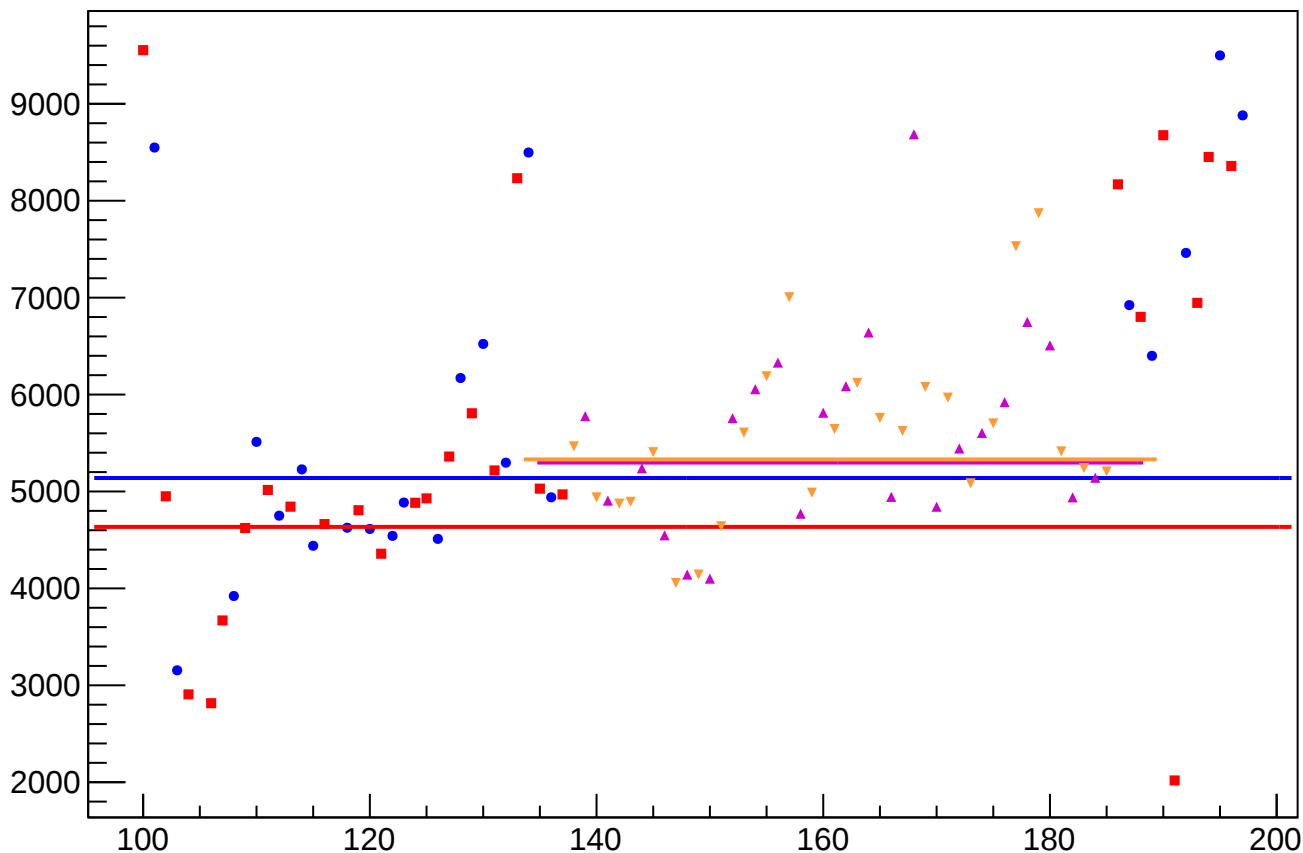
Right: 3894.017+/-1135.778 χ^2/NDF : 44.9/47

In: 2975.544+/-1034.287 χ^2/NDF : 39.1/44

Out: 2799.036+/-966.267 χ^2/NDF : 50.9/50

All: 2881.296+/-706.077 χ^2/NDF : 90.0/95

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5139.198 $\pm$ 1.226 χ^2 /NDF: 1743662.7/21

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

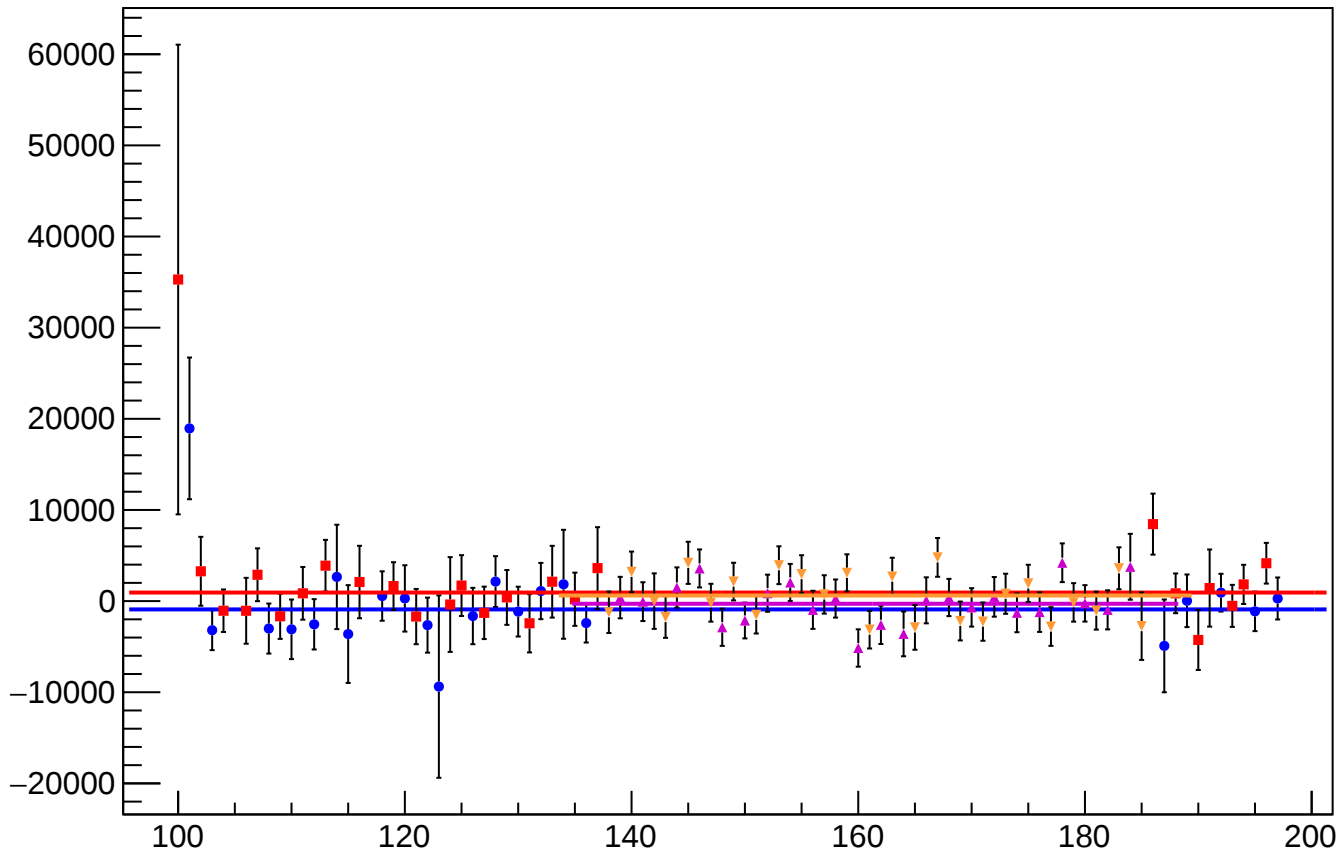
Right: 4849.872 $\pm$ 0.801 χ^2 /NDF: 4565509.2/47

In: 5241.746 $\pm$ 0.731 χ^2 /NDF: 2710532.7/44

Out: 5041.432 $\pm$ 0.682 χ^2 /NDF: 3845888.2/50

All: 5134.604 $\pm$ 0.499 χ^2 /NDF: 6596546.3/95

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -912.108 ± 633.644 $\chi^2/\text{NDF}: 15.3/21$

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 $\chi^2/\text{NDF}: 58.4/47$

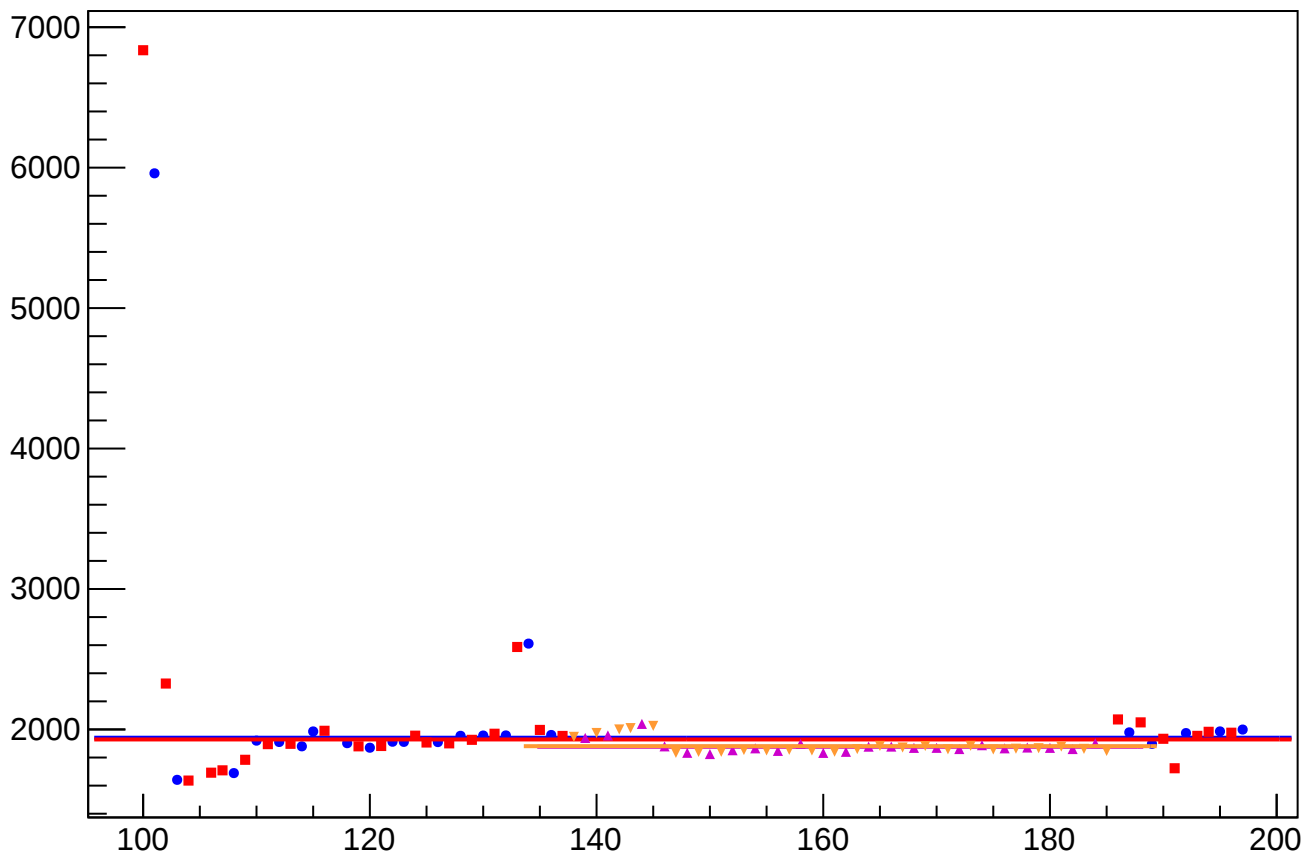
Right: 86.094 ± 430.032 $\chi^2/\text{NDF}: 39.2/47$

In: -500.309 ± 366.661 $\chi^2/\text{NDF}: 39.5/44$

Out: 729.415 ± 350.863 $\chi^2/\text{NDF}: 52.2/50$

All: 141.616 ± 253.499 $\chi^2/\text{NDF}: 97.6/95$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1941.080 $\pm$ 0.448 χ^2 /NDF: 619822.3/21

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

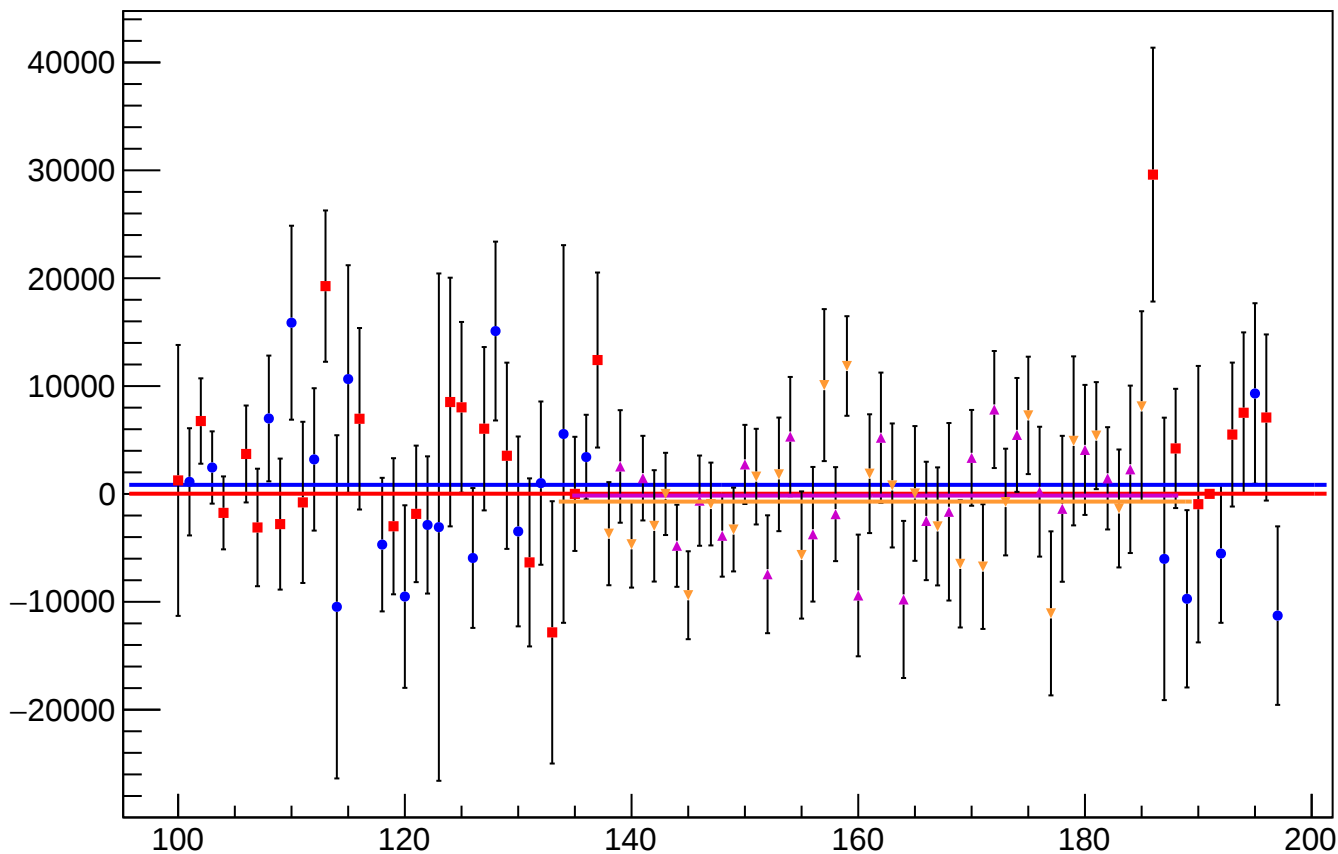
Right: 1934.404 $\pm$ 0.304 χ^2 /NDF: 851277.6/47

In: 1898.247 $\pm$ 0.259 χ^2 /NDF: 654061.6/44

Out: 1898.045 $\pm$ 0.248 χ^2 /NDF: 268298.5/50

All: 1898.141 $\pm$ 0.179 χ^2 /NDF: 922360.4/95

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 844.000 ± 1436.331 χ^2/NDF : 19.2/21

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

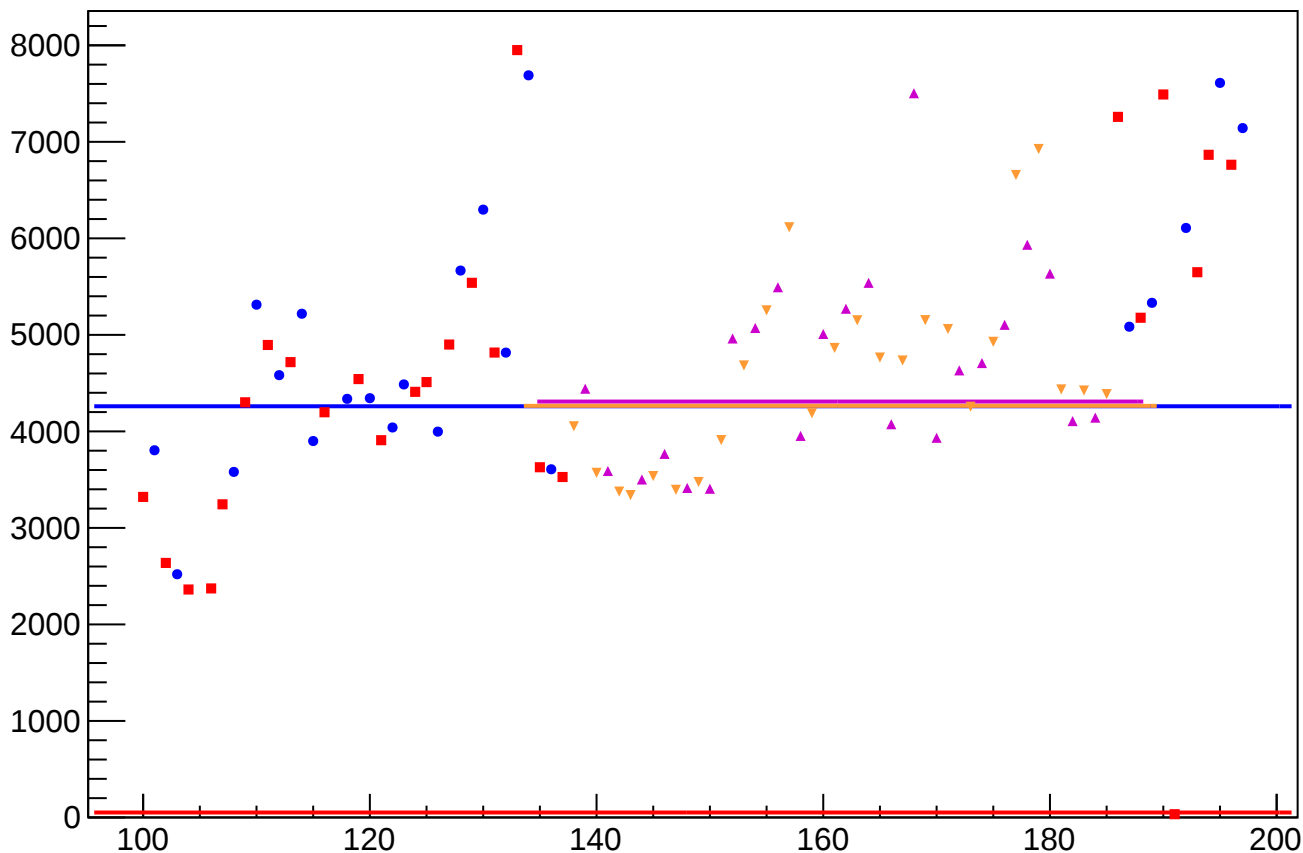
Right: 24.584 ± 85.670 χ^2/NDF : 48.4/47

In: 197.439 ± 849.575 χ^2/NDF : 36.4/44

Out: 16.508 ± 85.519 χ^2/NDF : 56.5/50

All: 18.323 ± 85.089 χ^2/NDF : 92.9/95

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4260.199+/-1.016 χ^2 /NDF: 1710480.0/21

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

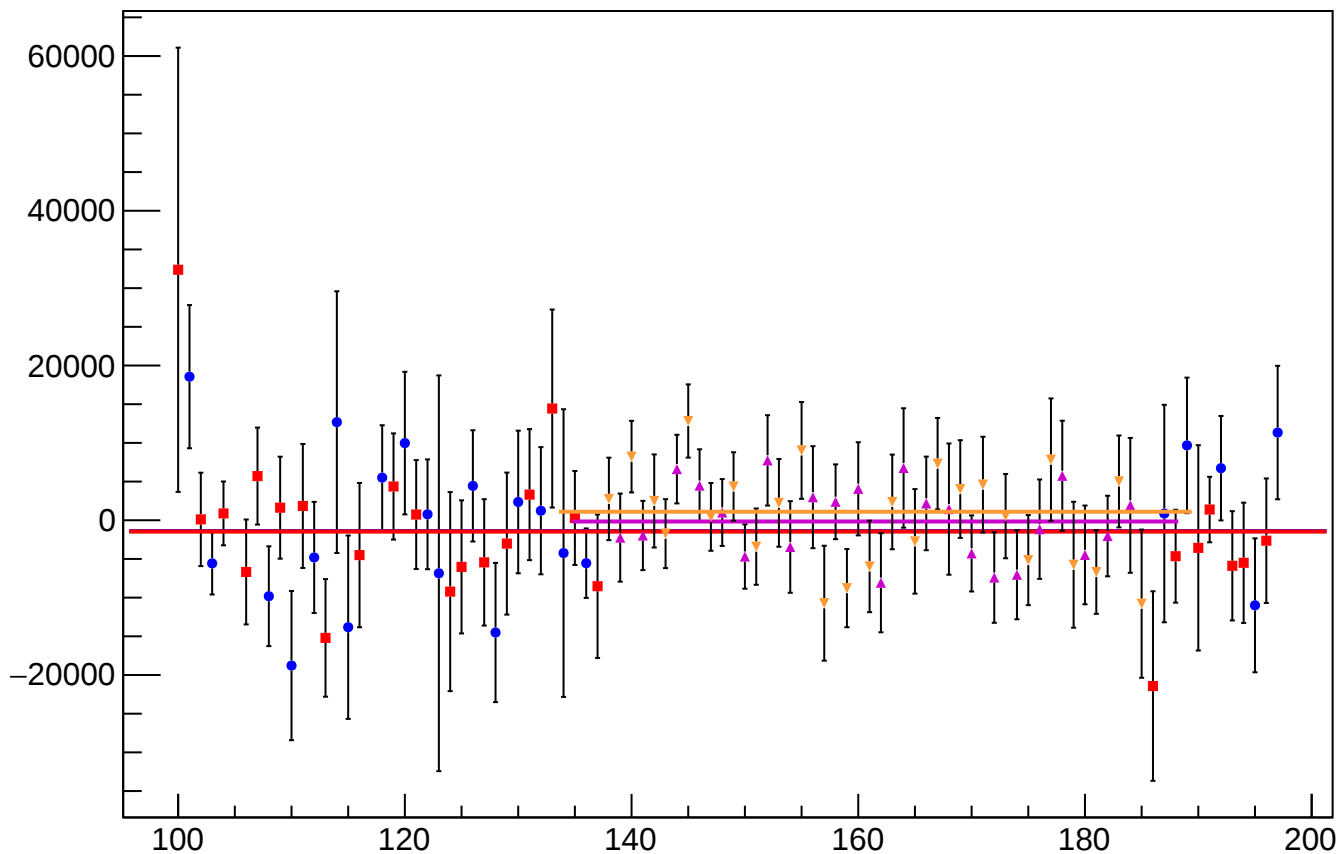
Right: 66.278+/-0.061 χ^2 /NDF: 40167347.2/47

In: 4291.948+/-0.601 χ^2 /NDF:3017116.4/44

Out: 81.054+/-0.060 χ^2 /NDF:56732909.0/50

All: 123.294+/-0.060 χ^2 /NDF: 108390353.9/50

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1407.483+/-1641.888 χ^2/NDF : 25.8/21

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

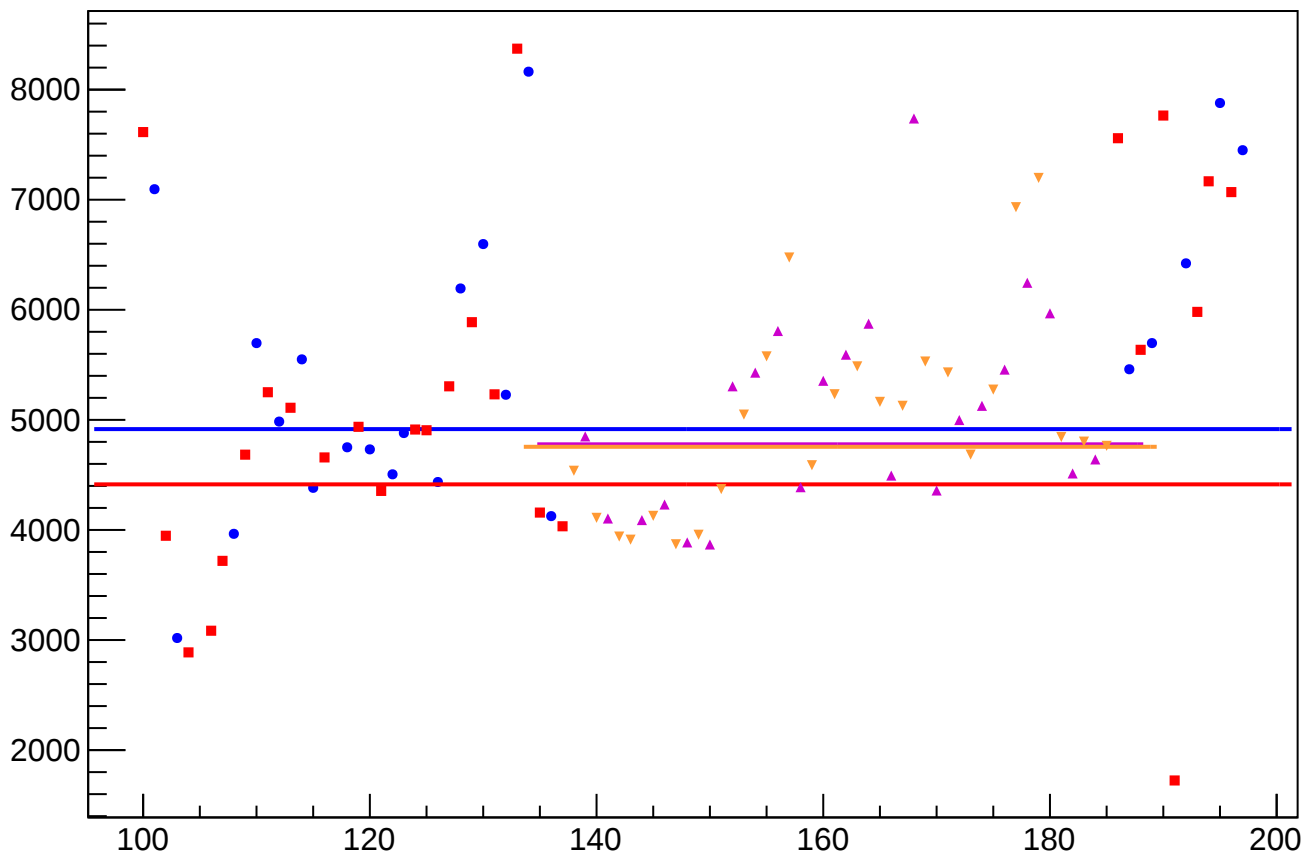
Right: -1434.518+/-1073.544 χ^2/NDF : 41.6/47

In: -575.197+/-948.226 χ^2/NDF : 41.7/44

Out: 113.432+/-882.325 χ^2/NDF : 46.3/50

All: -206.123+/-645.940 χ^2/NDF : 88.4/95

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4916.112+/-1.161 χ^2/NDF : 1396145.8/21

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4414.144+/-0.999 χ^2/NDF : 2500020.8/25

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

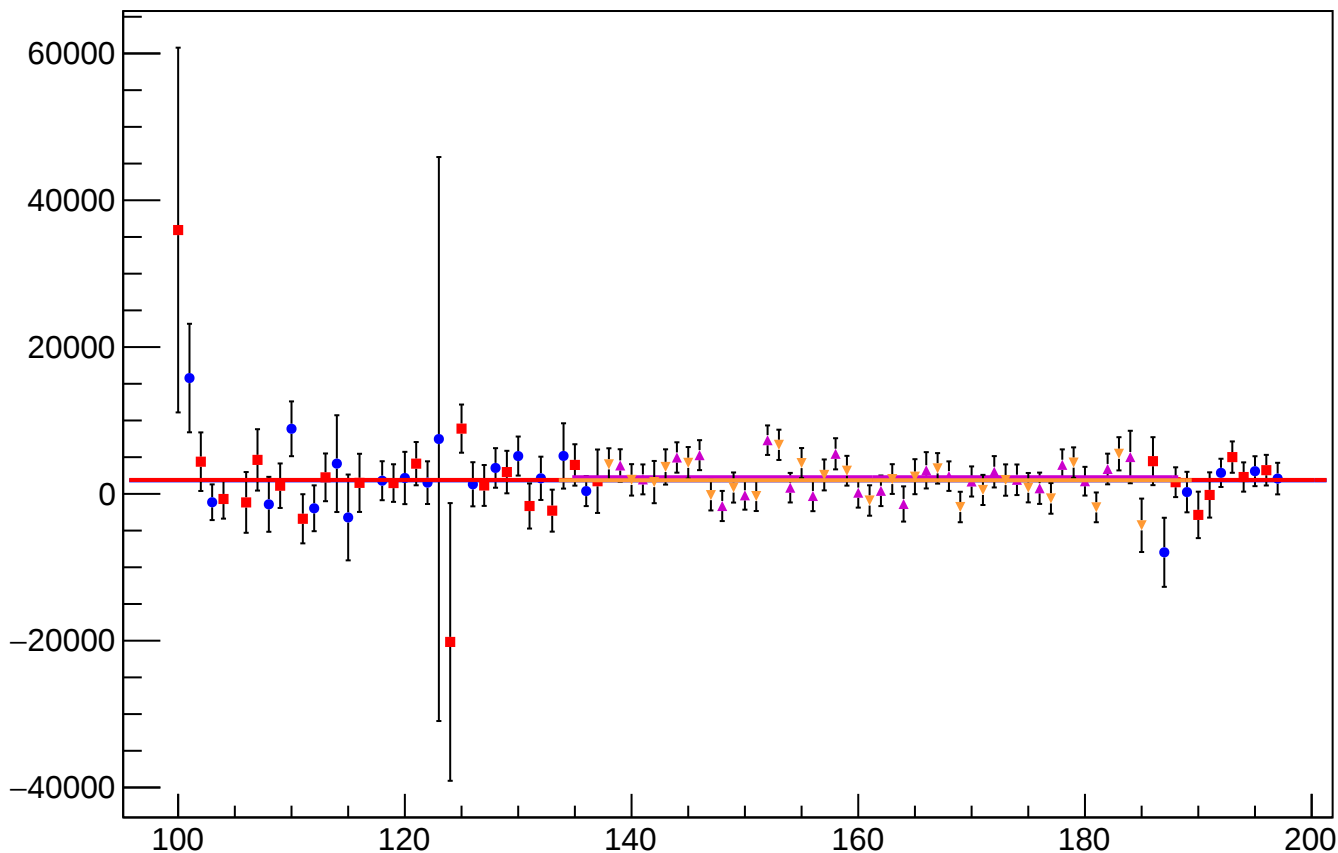
Right: 4627.779+/-0.757 χ^2/NDF : 4003543.9/47

In: 4823.952+/-0.670 χ^2/NDF : 2355891.7/44

Out: 4622.788+/-0.623 χ^2/NDF : 3524638.8/50

All: 4715.985+/-0.456 χ^2/NDF : 5928841.5/95

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1838.684 $\pm$ 629.462 χ^2 /NDF: 20.2/21

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

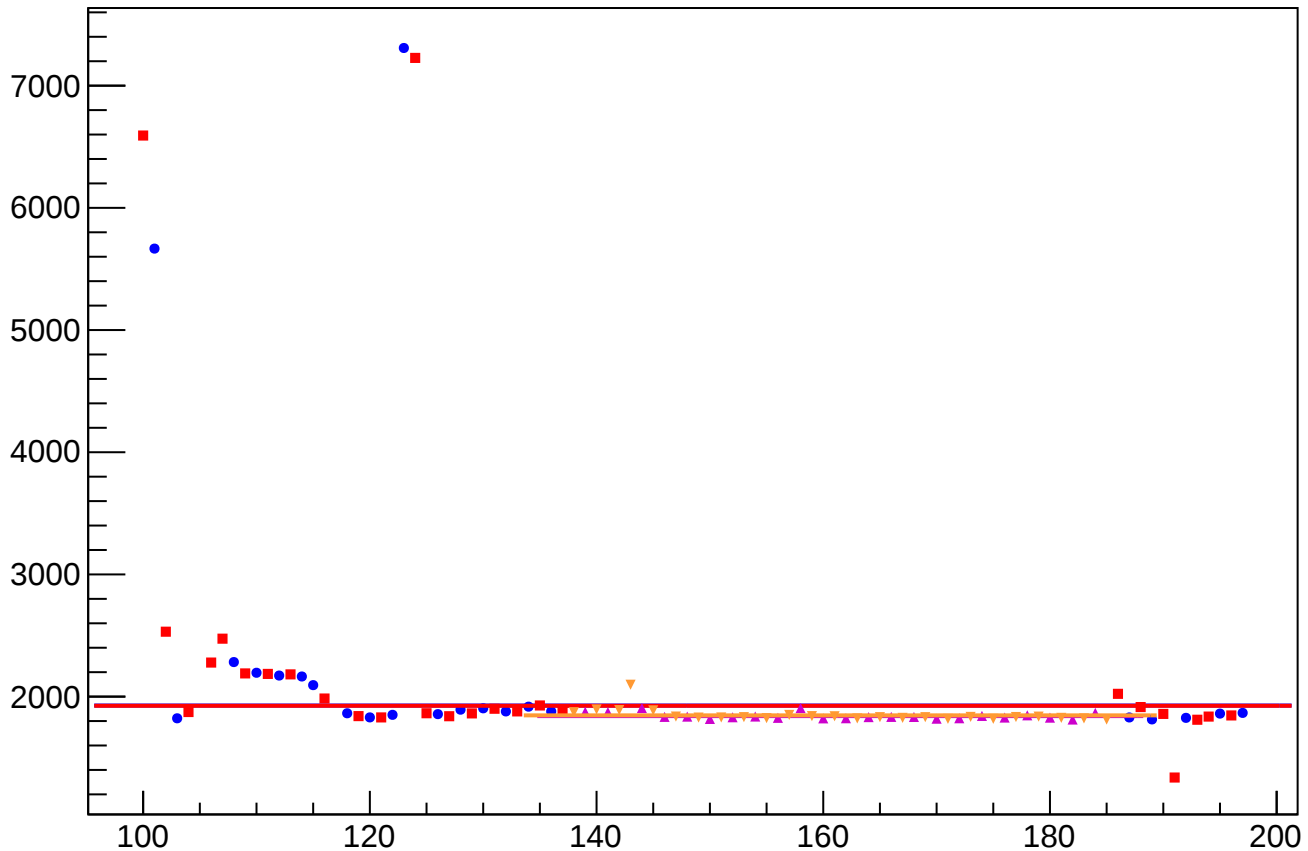
Right: 1872.223 $\pm$ 427.938 χ^2 /NDF: 43.5/47

In: 2126.659 $\pm$ 361.570 χ^2 /NDF:47.3/44

Out: 1872.268 $\pm$ 346.675 χ^2 /NDF:53.4/50

All: 1994.116 $\pm$ 250.236 χ^2 /NDF: 101.0/95

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1927.101+/-0.445 χ^2/NDF : 620395.2/21

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1925.025+/-0.413 χ^2/NDF : 460506.2/25

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

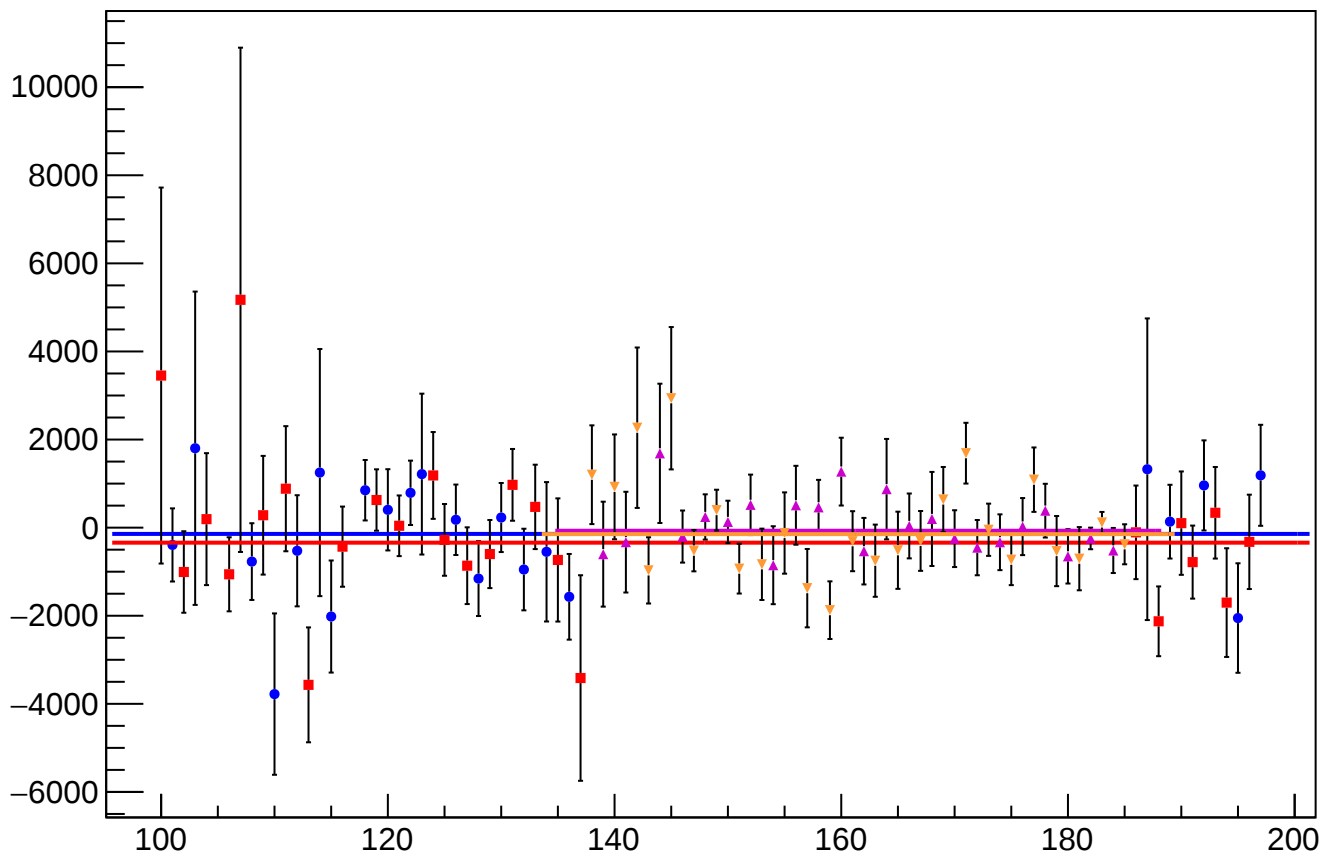
Right: 1925.984+/-0.303 χ^2/NDF : 1080913.1/47

In: 1869.102+/-0.256 χ^2/NDF : 652476.9/44

Out: 1874.281+/-0.245 χ^2/NDF : 511182.2/50

All: 1871.800+/-0.177 χ^2/NDF : 1163872.9/99

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -142.236 ± 217.893 $\chi^2/\text{NDF}: 21.9/21$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -341.006 ± 195.900 $\chi^2/\text{NDF}: 27.6/25$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

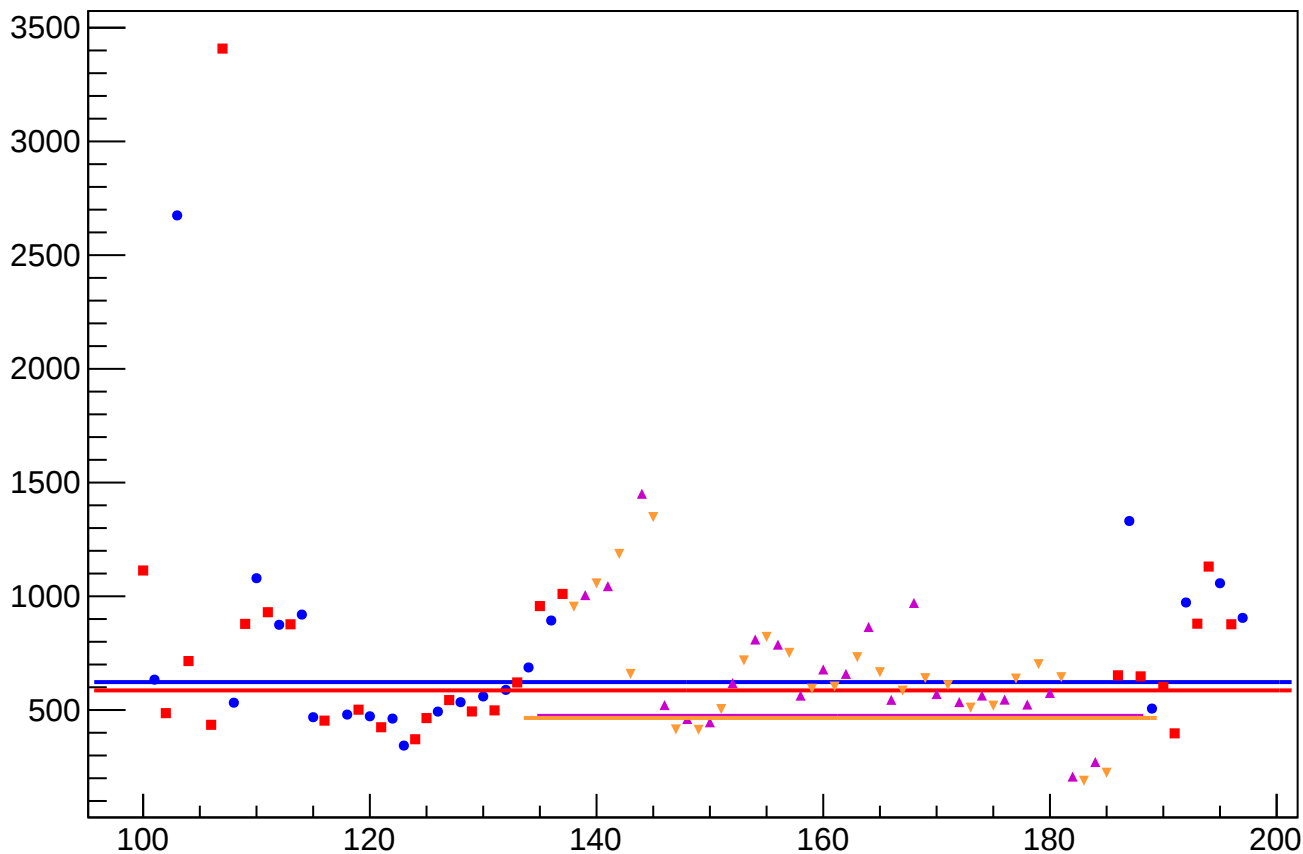
Right: -252.156 ± 145.679 $\chi^2/\text{NDF}: 50.0/47$

In: -88.437 ± 109.318 $\chi^2/\text{NDF}: 34.3/44$

Out: -201.205 ± 103.550 $\chi^2/\text{NDF}: 66.0/50$

All: -147.874 ± 75.177 $\chi^2/\text{NDF}: 100.9/95$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 622.752 $\pm$ 0.154 χ^2 /NDF: 2199148.0/21

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 586.251 $\pm$ 0.139 χ^2 /NDF: 2339191.9/25

Left In: 474.263 $\pm$ 0.089 χ^2 /NDF: 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2 /NDF: 13264703.6/47

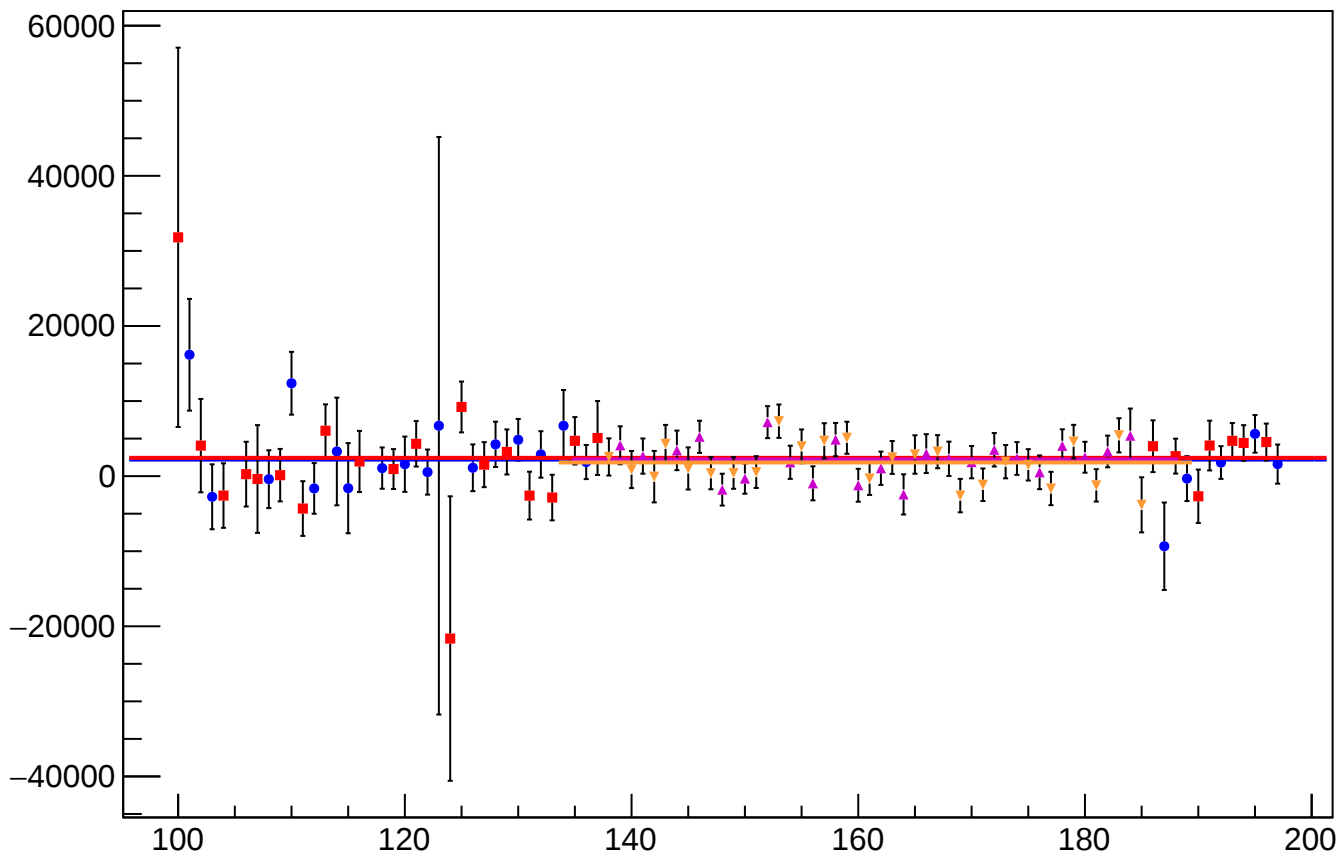
Right: 602.567 $\pm$ 0.103 χ^2 /NDF: 4569376.8/47

In: 511.638 $\pm$ 0.077 χ^2 /NDF: 9067279.9/44

Out: 498.936 $\pm$ 0.073 χ^2 /NDF: 9976704.4/50

All: 504.943 $\pm$ 0.053 χ^2 /NDF: 19058217.8/99

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2207.104+/-708.490 χ^2/NDF : 22.5/21

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

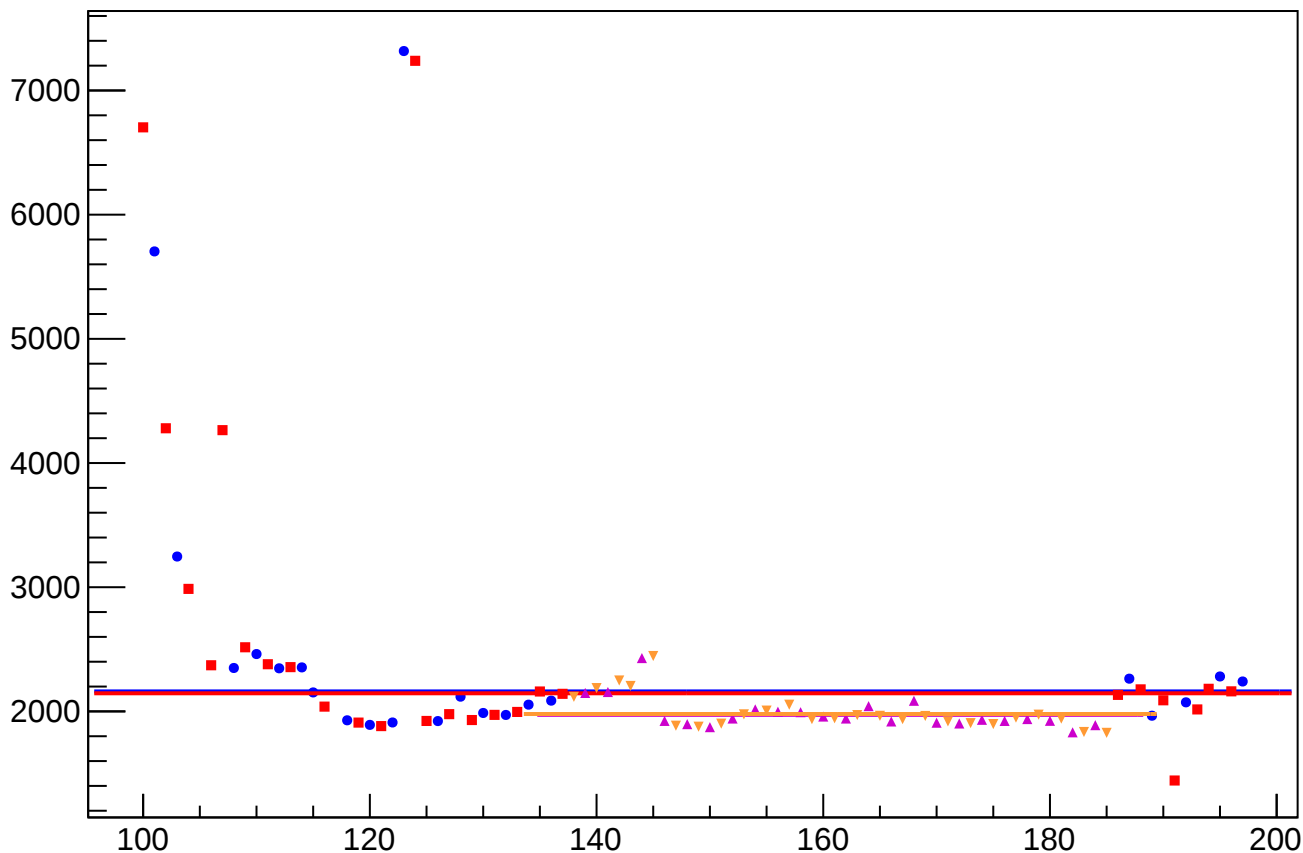
Right: 2330.505+/-481.331 χ^2/NDF : 48.4/47

In: 2207.801+/-393.991 χ^2/NDF : 47.8/44

Out: 2027.472+/-378.096 χ^2/NDF : 58.5/50

All: 2113.926+/-272.800 χ^2/NDF : 106.4/95

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2160.867 $\pm$ 0.501 χ^2 /NDF: 726764.0/21

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

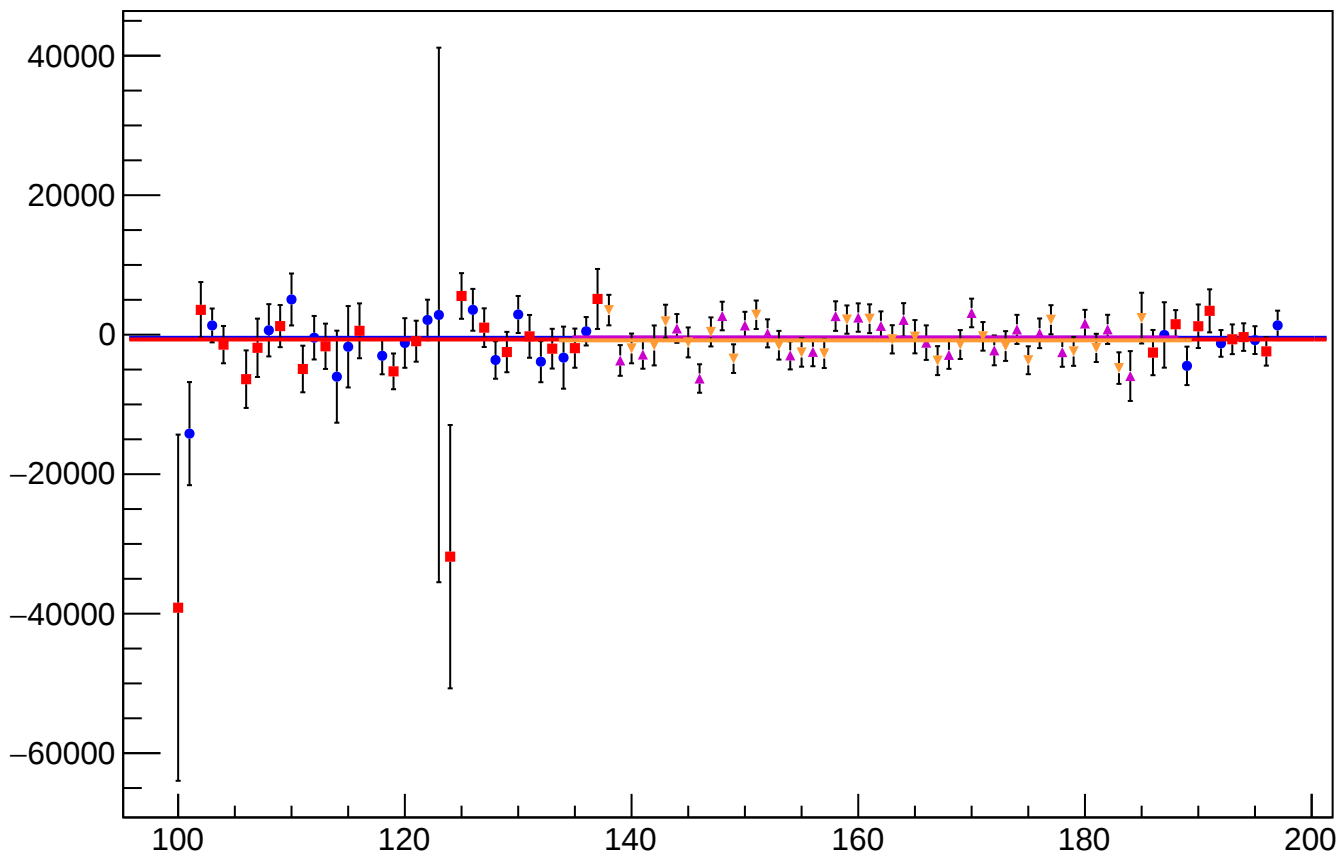
Right: 2152.751 $\pm$ 0.340 χ^2 /NDF: 1632481.2/47

In: 2030.521 $\pm$ 0.279 χ^2 /NDF: 941218.3/44

Out: 2034.415 $\pm$ 0.267 χ^2 /NDF: 1130881.6/50

All: 2032.548 $\pm$ 0.193 χ^2 /NDF: 2072201.6/95

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -448.168+/-625.889 χ^2/NDF : 18.6/21

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

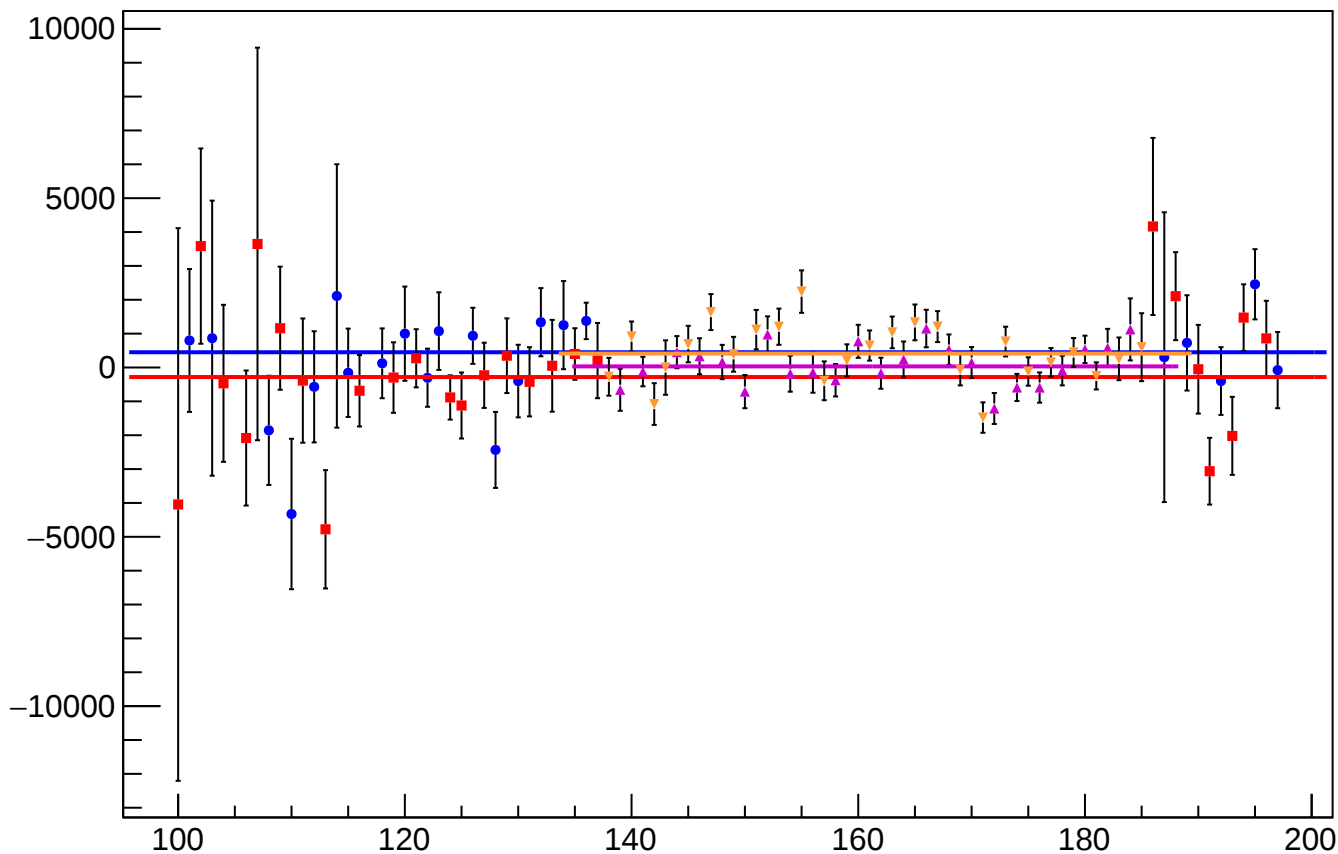
Right: -576.403+/-425.727 χ^2/NDF : 43.4/47

In: -415.188+/-360.635 χ^2/NDF : 53.0/44

Out: -765.335+/-345.746 χ^2/NDF : 52.7/50

All: -597.639+/-249.577 χ^2/NDF : 106.2/95

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 450.408+/-243.227 χ^2/NDF : 25.2/21

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

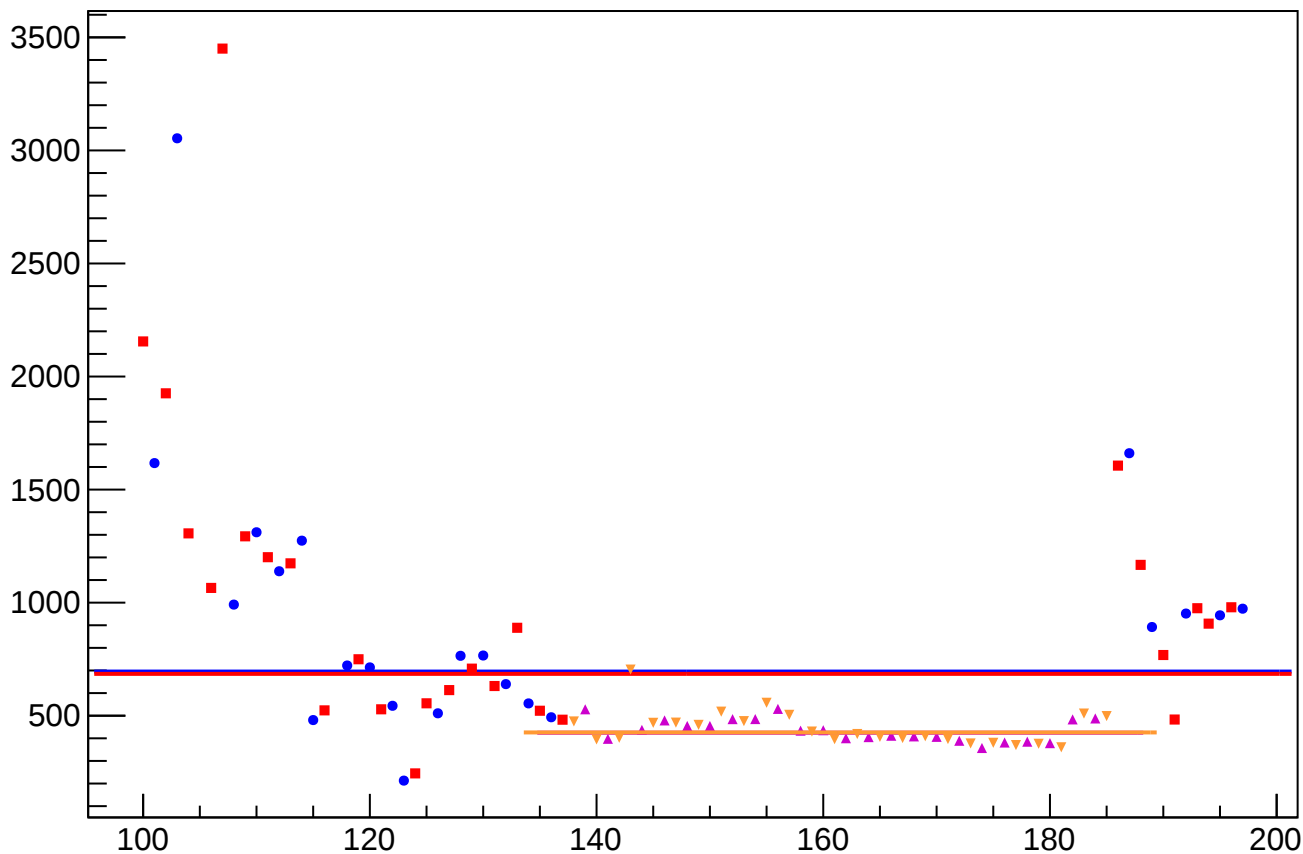
Right: 63.129+/-166.913 χ^2/NDF : 64.9/47

In: 95.386+/-94.380 χ^2/NDF : 60.5/44

Out: 299.678+/-92.025 χ^2/NDF : 103.7/50

All: 200.113+/-65.888 χ^2/NDF : 166.6/95

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 695.208 $\pm$ 0.172 χ^2 /NDF: 2877000.0/21

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

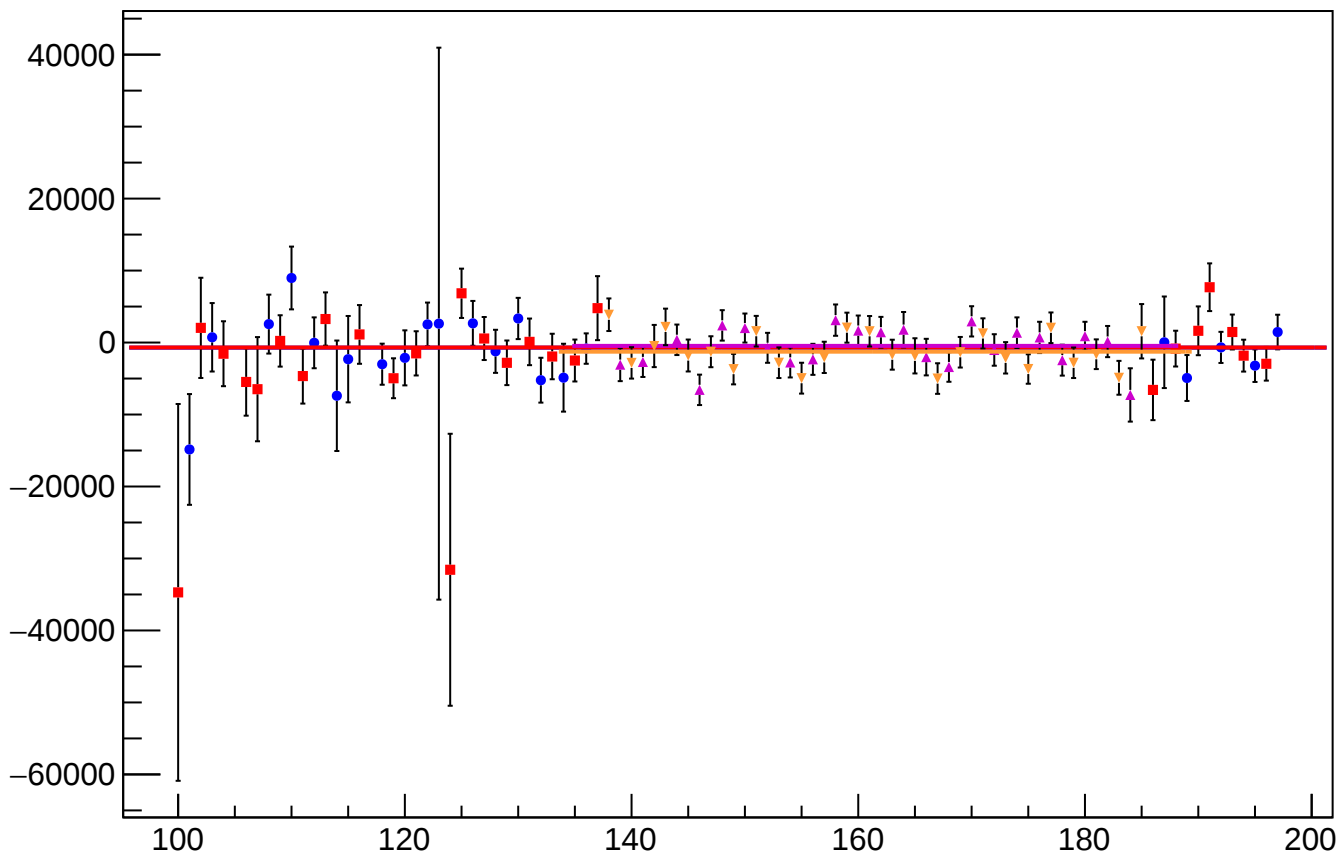
Right: 689.843 $\pm$ 0.118 χ^2 /NDF: 6794591.4/47

In: 465.378 $\pm$ 0.067 χ^2 /NDF: 5370908.0/44

Out: 467.686 $\pm$ 0.065 χ^2 /NDF: 6787526.7/50

All: 466.561 $\pm$ 0.047 χ^2 /NDF: 12159047.9/95

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -709.454 ± 704.703 χ^2/NDF : 21.7/21

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

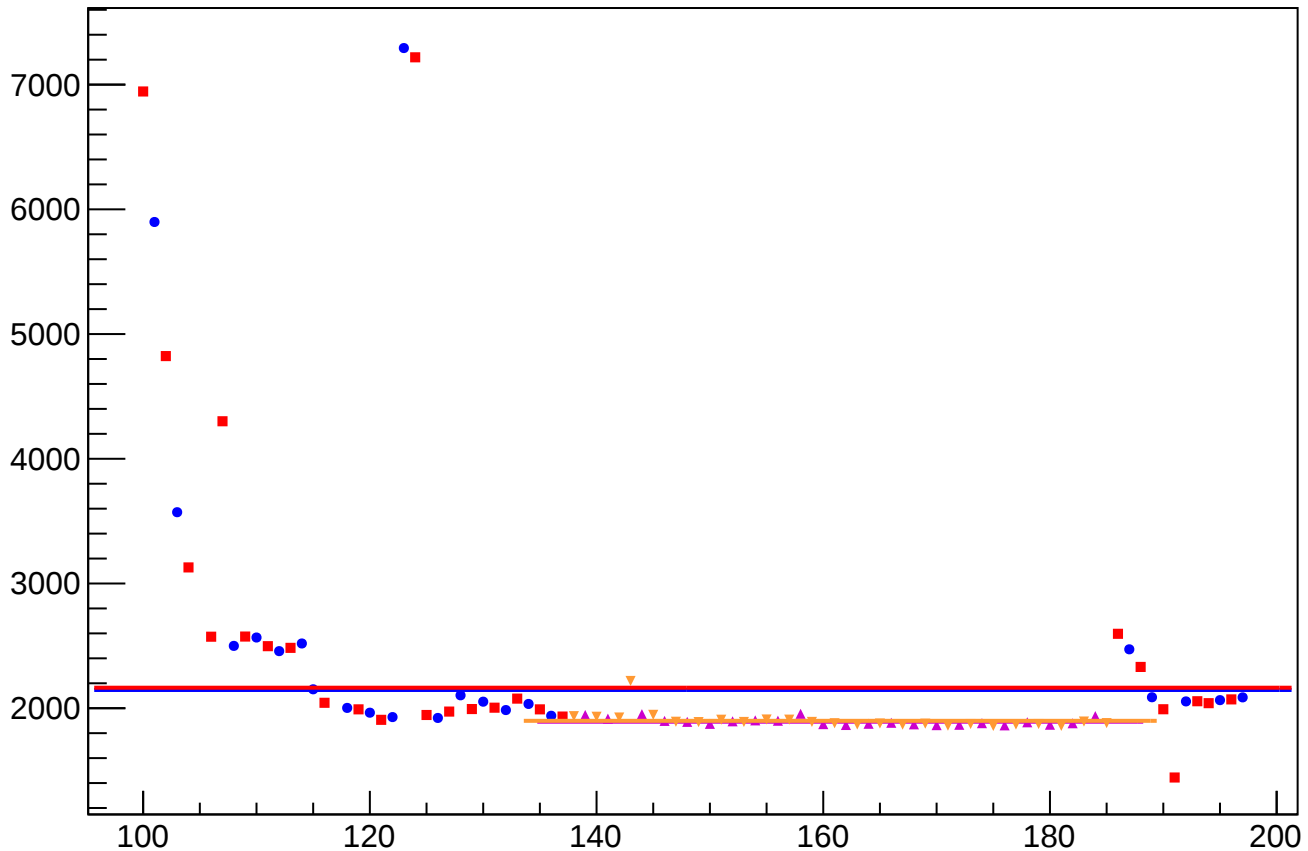
Right: -696.972 ± 482.972 χ^2/NDF : 51.3/47

In: -534.993 ± 381.622 χ^2/NDF : 54.4/44

Out: -1088.221 ± 368.507 χ^2/NDF : 60.9/50

All: -821.277 ± 265.089 χ^2/NDF : 116.4/95

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2146.276 ± 0.498 χ^2/NDF : 817057.6/21

Left Out: 1898.962 ± 0.313 χ^2/NDF : 38680.4/24

Right Out: 2164.462 ± 0.469 χ^2/NDF : 1047491.0/25

Left In: 1891.693 ± 0.321 χ^2/NDF : 7420.7/22

Left: 1895.414 ± 0.224 χ^2/NDF : 46363.6/47

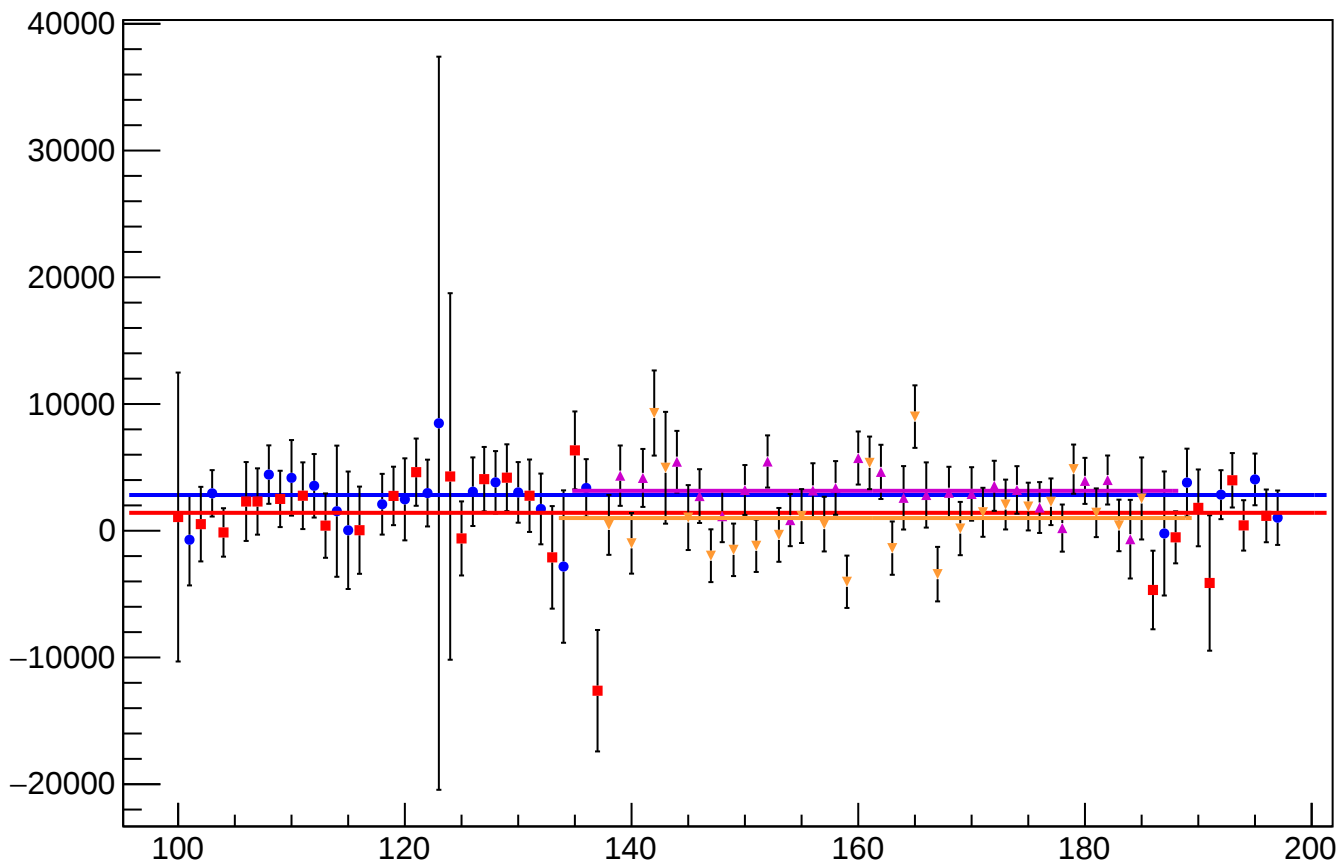
Right: 2155.920 ± 0.342 χ^2/NDF : 1865254.9/47

In: 1966.352 ± 0.270 χ^2/NDF : 1008952.7/44

Out: 1980.926 ± 0.261 χ^2/NDF : 1307727.9/50

All: 1973.894 ± 0.187 χ^2/NDF : 2318189.9/95

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2820.229 $\pm$ 571.133 χ^2 /NDF: 5.2/21

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

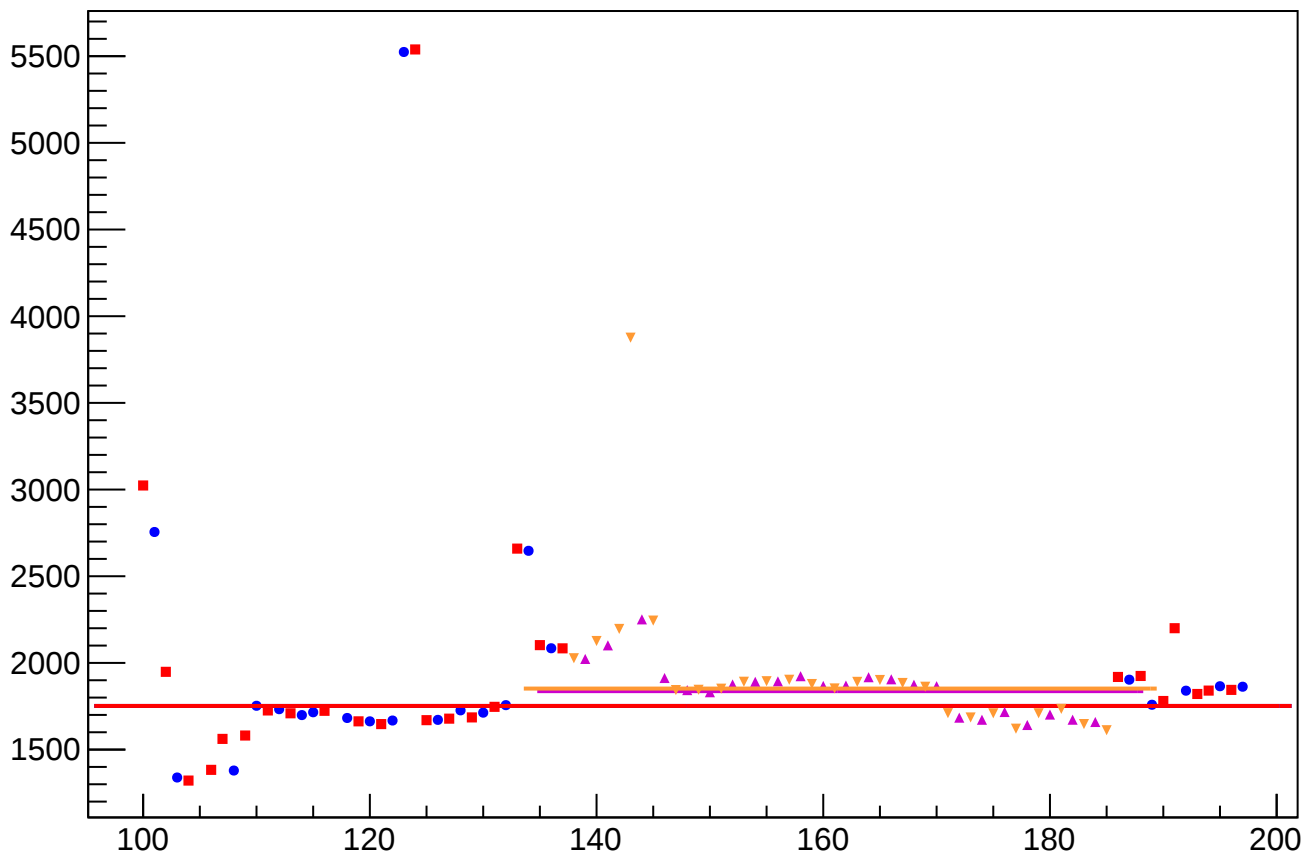
Right: 2070.364 $\pm$ 390.188 χ^2 /NDF: 34.3/47

In: 3027.048 $\pm$ 349.126 χ^2 /NDF:17.2/44

Out: 1165.909 $\pm$ 337.458 χ^2 /NDF:70.9/50

All: 2064.858 $\pm$ 242.639 χ^2 /NDF: 102.8/95

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1751.686 $\pm$ 0.404 χ^2 /NDF: 456247.3/21

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1751.788 $\pm$ 0.378 χ^2 /NDF: 514880.4/25

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

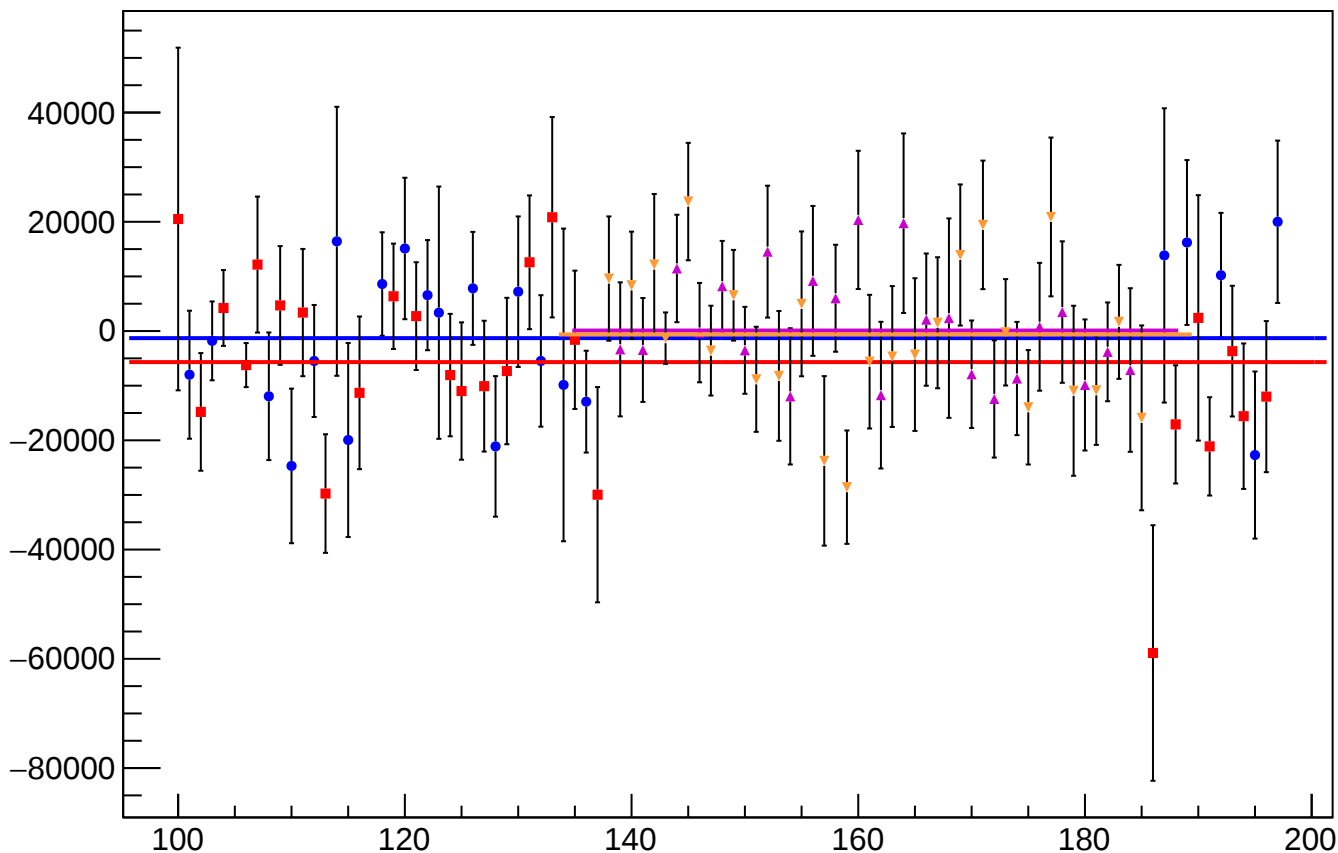
Right: 1751.740 $\pm$ 0.276 χ^2 /NDF: 971127.8/47

In: 1805.215 $\pm$ 0.247 χ^2 /NDF: 684811.3/44

Out: 1812.003 $\pm$ 0.239 χ^2 /NDF: 1206089.5/50

All: 1808.724 $\pm$ 0.172 χ^2 /NDF: 1891291.7/95

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1296.893 $\pm$ 2630.410 χ^2 /NDF: 21.0/21

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -5683.307 $\pm$ 2055.554 χ^2 /NDF: 30.9/25

Left In: 93.334 $\pm$ 2293.826 χ^2 /NDF:14.6/22

Left: -299.532 $\pm$ 1536.638 χ^2 /NDF: 44.8/47

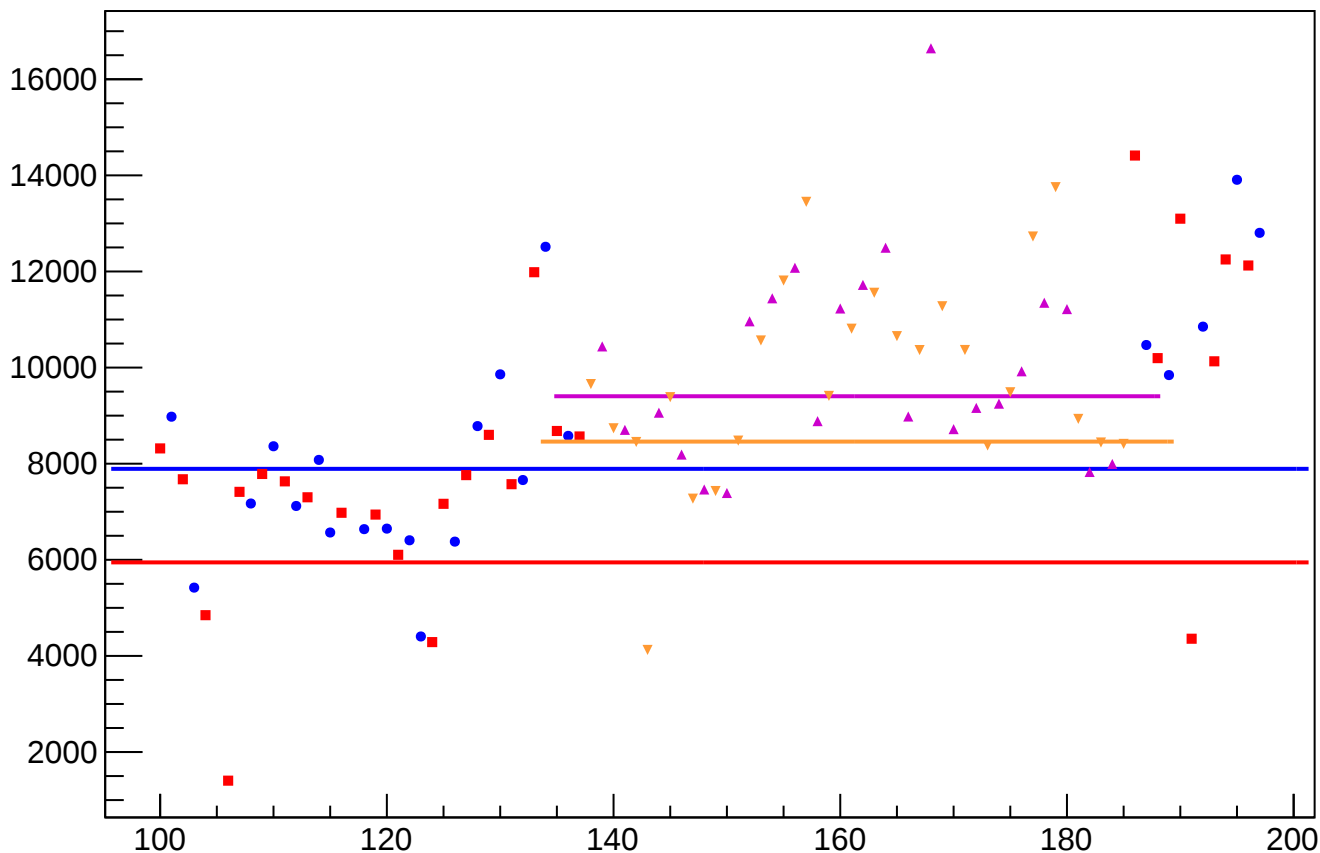
Right: -4020.230 $\pm$ 1619.663 χ^2 /NDF: 53.6/47

In: -507.196 $\pm$ 1728.812 χ^2 /NDF:35.8/44

Out: -3168.688 $\pm$ 1458.467 χ^2 /NDF:64.0/50

All: -2062.077 $\pm$ 1114.763 χ^2 /NDF: 101.2/95

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7892.937 $\pm$ 1.860 χ^2/NDF : 1298056.9/21

Left Out: 8459.960 $\pm$ 1.463 χ^2/NDF : 3087200.5/24

Right Out: 5946.076 $\pm$ 1.453 χ^2/NDF : 5336408.6/25

Left In: 9403.481 $\pm$ 1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2/NDF : 4416376.4/47

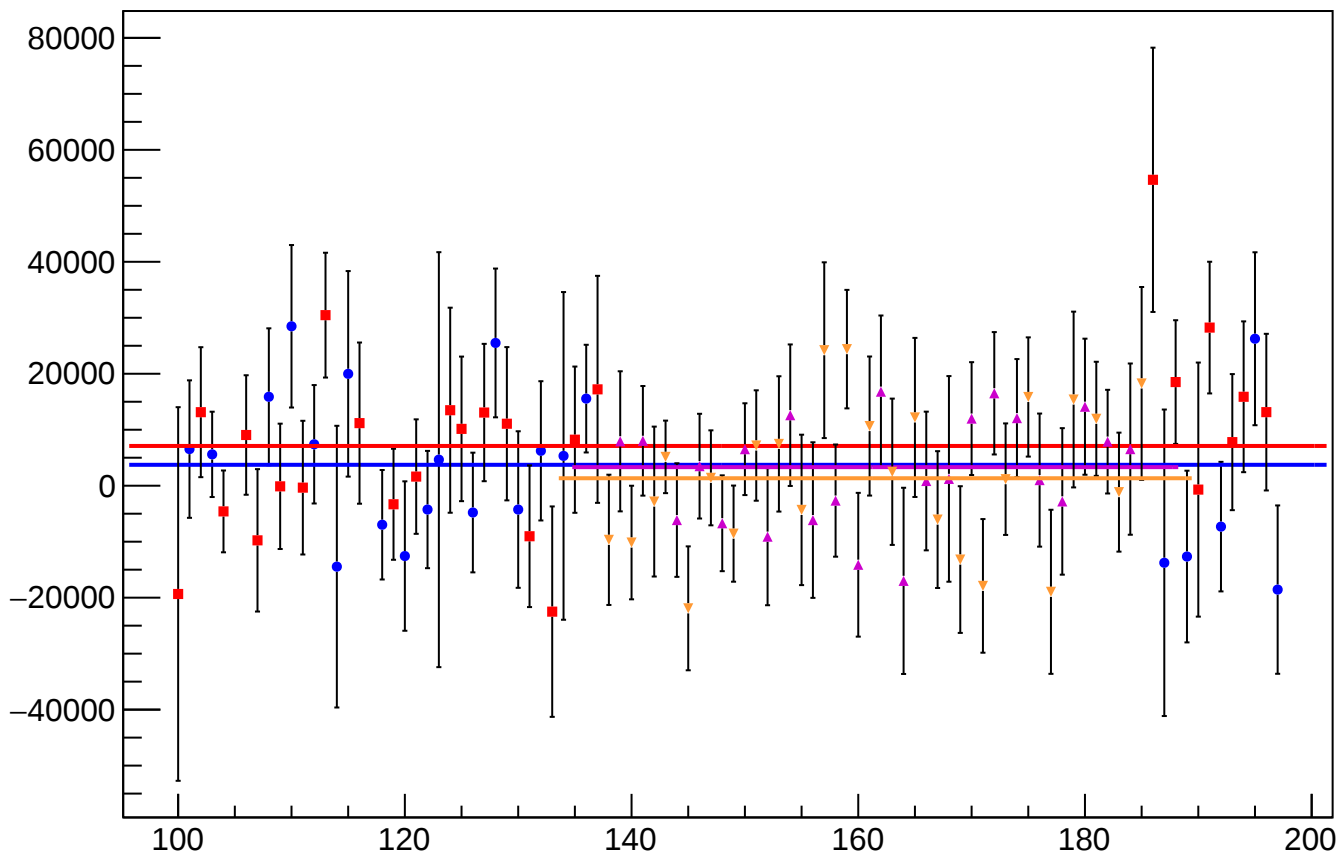
Right: 6684.214 $\pm$ 1.145 χ^2/NDF : 7314678.5/47

In: 8750.978 $\pm$ 1.222 χ^2/NDF : 2815353.1/44

Out: 7194.406 $\pm$ 1.031 χ^2/NDF : 9909021.8/50

All: 7841.606 $\pm$ 0.788 χ^2/NDF : 13671582.5/99

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3734.248 $\pm$ 2728.683 χ^2 /NDF: 20.7/21

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

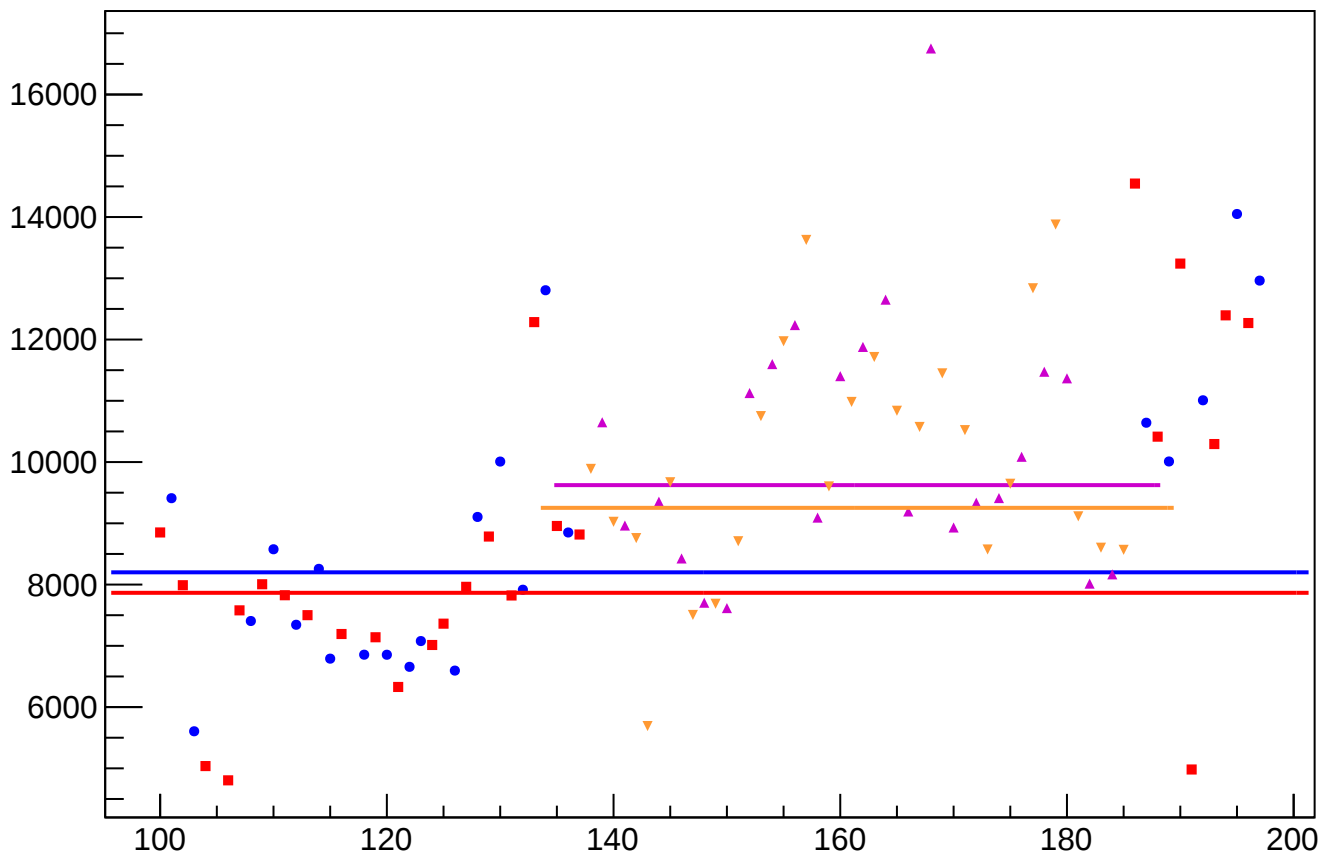
Right: 5588.018 $\pm$ 1829.487 χ^2 /NDF: 47.4/47

In: 3494.158 $\pm$ 1778.282 χ^2 /NDF:34.4/44

Out: 3907.460 $\pm$ 1647.279 χ^2 /NDF:56.9/50

All: 3716.591 $\pm$ 1208.464 χ^2 /NDF: 91.4/95

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8200.002 $\pm$ 1.929 χ^2/NDF : 1185730.4/21

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

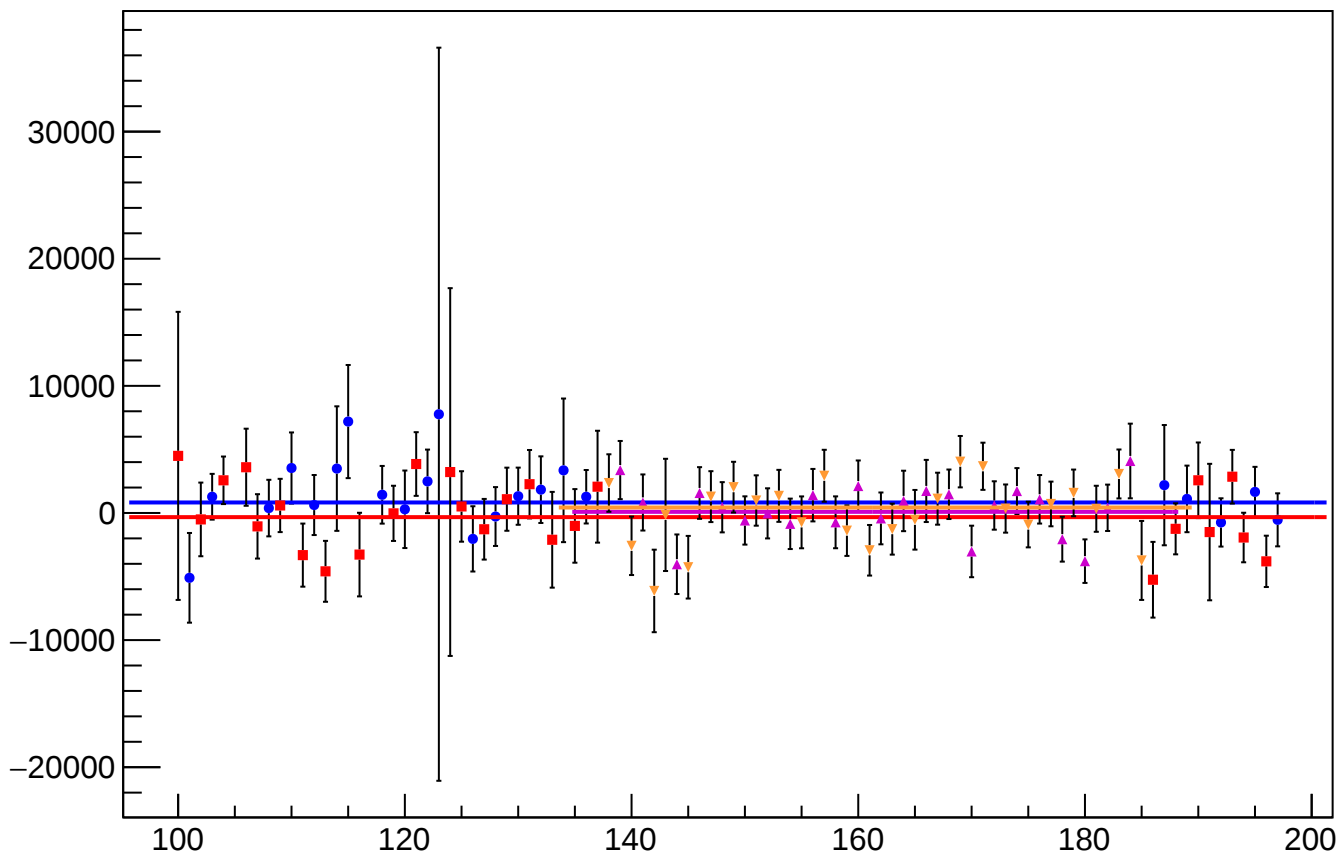
Right: 8015.910 $\pm$ 1.294 χ^2/NDF : 2881329.0/47

In: 9018.899 $\pm$ 1.257 χ^2/NDF : 2568784.1/44

Out: 8633.592 $\pm$ 1.165 χ^2/NDF : 3627212.2/50

All: 8811.525 $\pm$ 0.854 χ^2/NDF : 6246532.0/95

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 826.147 ± 546.585 $\chi^2/\text{NDF}: 10.1/21$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -327.717 ± 512.974 $\chi^2/\text{NDF}: 24.8/25$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

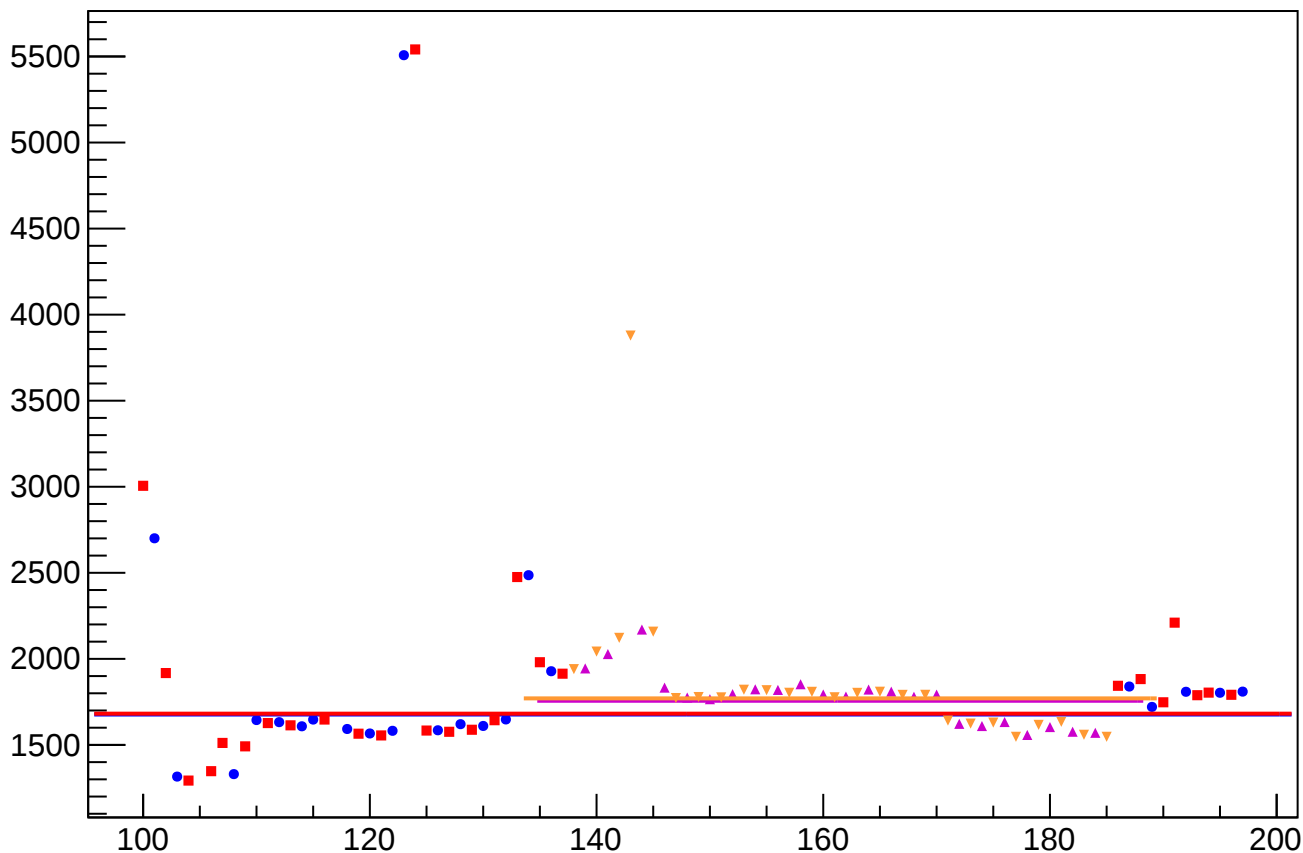
Right: 212.649 ± 374.045 $\chi^2/\text{NDF}: 37.2/47$

In: 363.873 ± 334.008 $\chi^2/\text{NDF}: 32.2/44$

Out: 128.722 ± 323.284 $\chi^2/\text{NDF}: 54.8/50$

All: 242.462 ± 232.295 $\chi^2/\text{NDF}: 87.2/95$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1676.638 $\pm$ 0.386 χ^2 /NDF: 446503.1/21

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

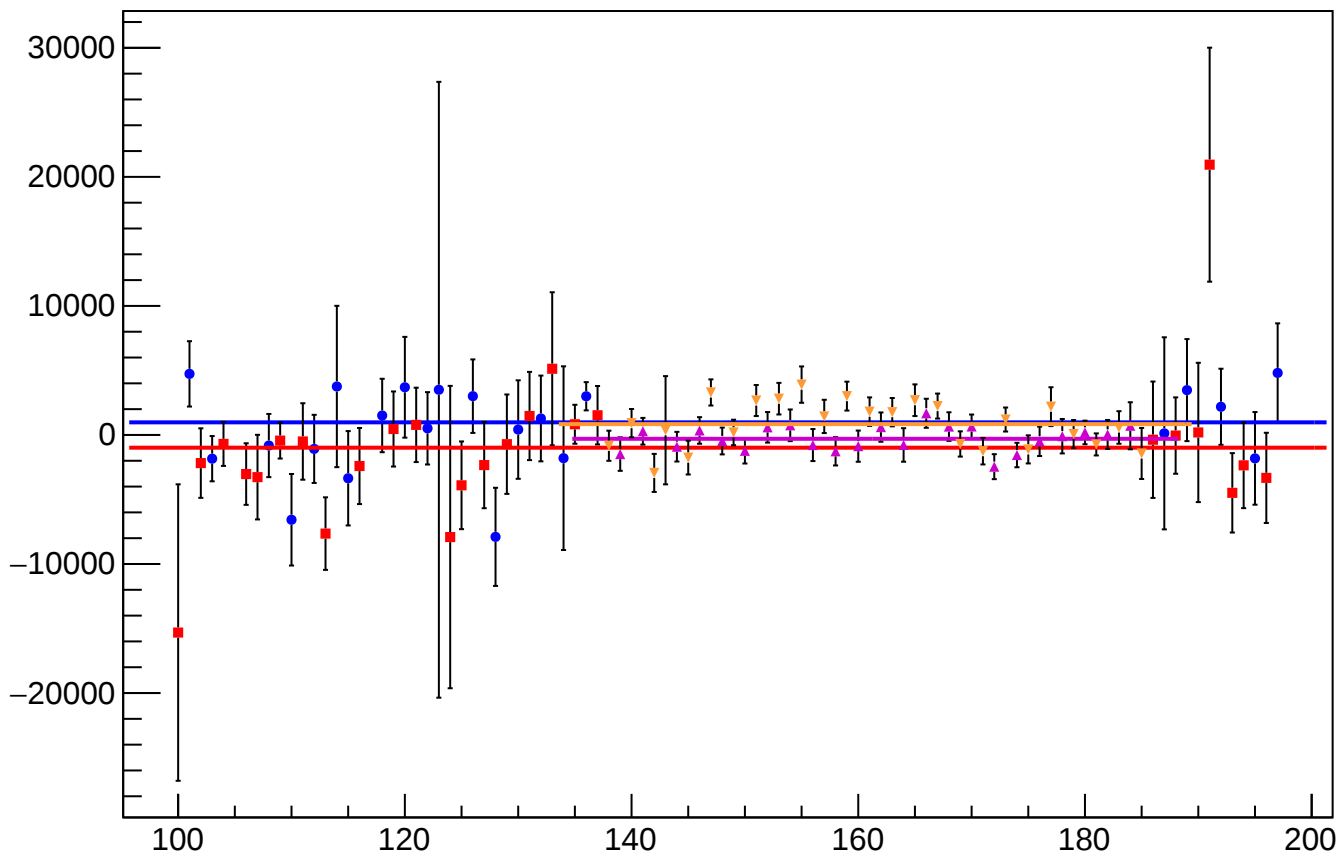
Right: 1679.269 $\pm$ 0.264 χ^2 /NDF: 969947.6/47

In: 1726.755 $\pm$ 0.236 χ^2 /NDF: 696416.5/44

Out: 1735.116 $\pm$ 0.229 χ^2 /NDF: 1259021.1/50

All: 1731.072 $\pm$ 0.164 χ^2 /NDF: 1956084.7/95

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 976.989 $\pm$ 593.414 χ^2 /NDF: 24.3/21

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

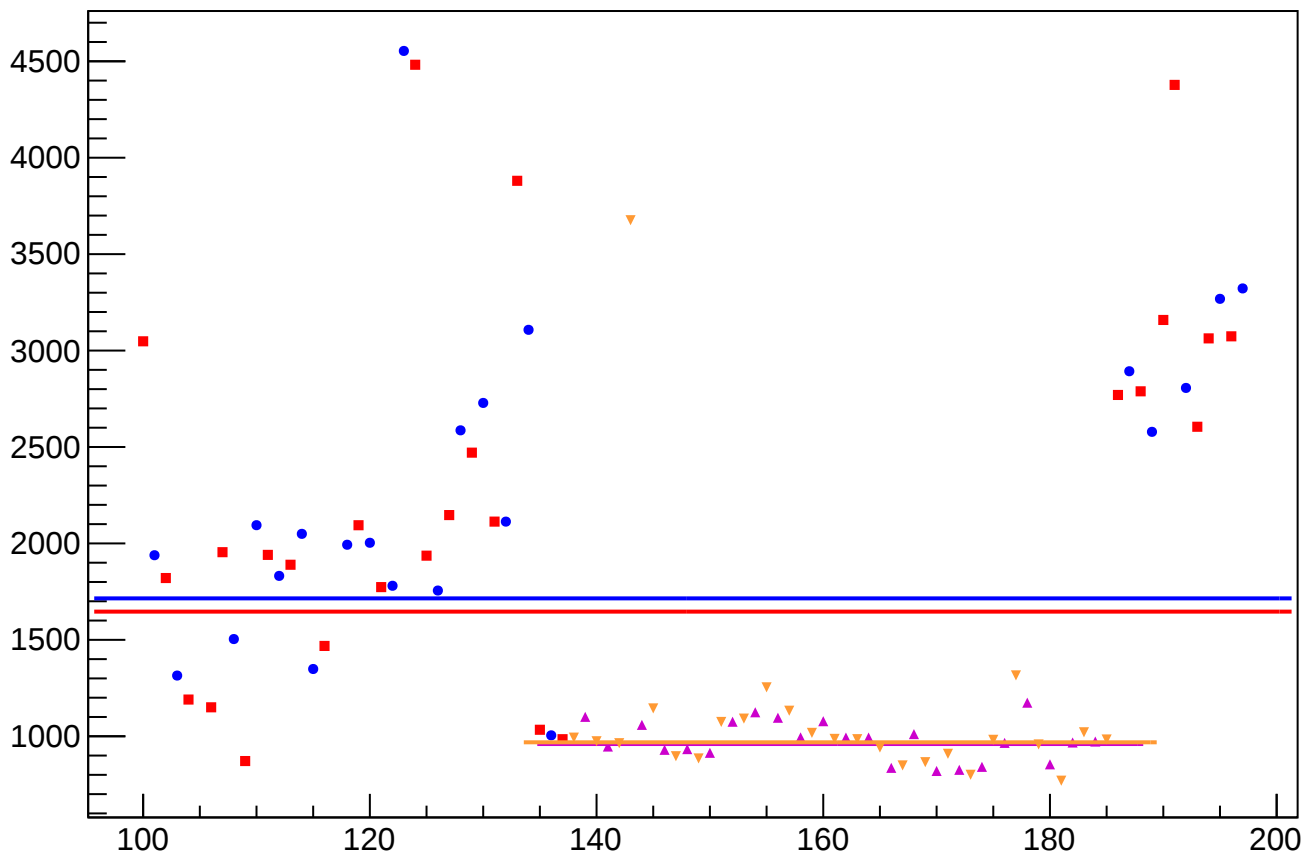
Right: -86.795 $\pm$ 401.734 χ^2 /NDF: 53.4/47

In: -130.412 $\pm$ 215.588 χ^2 /NDF:46.7/44

Out: 563.043 $\pm$ 212.316 χ^2 /NDF:87.0/50

All: 221.618 $\pm$ 151.274 χ^2 /NDF: 138.9/95

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1715.021+/-0.420 χ^2/NDF : 2586019.0/21

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

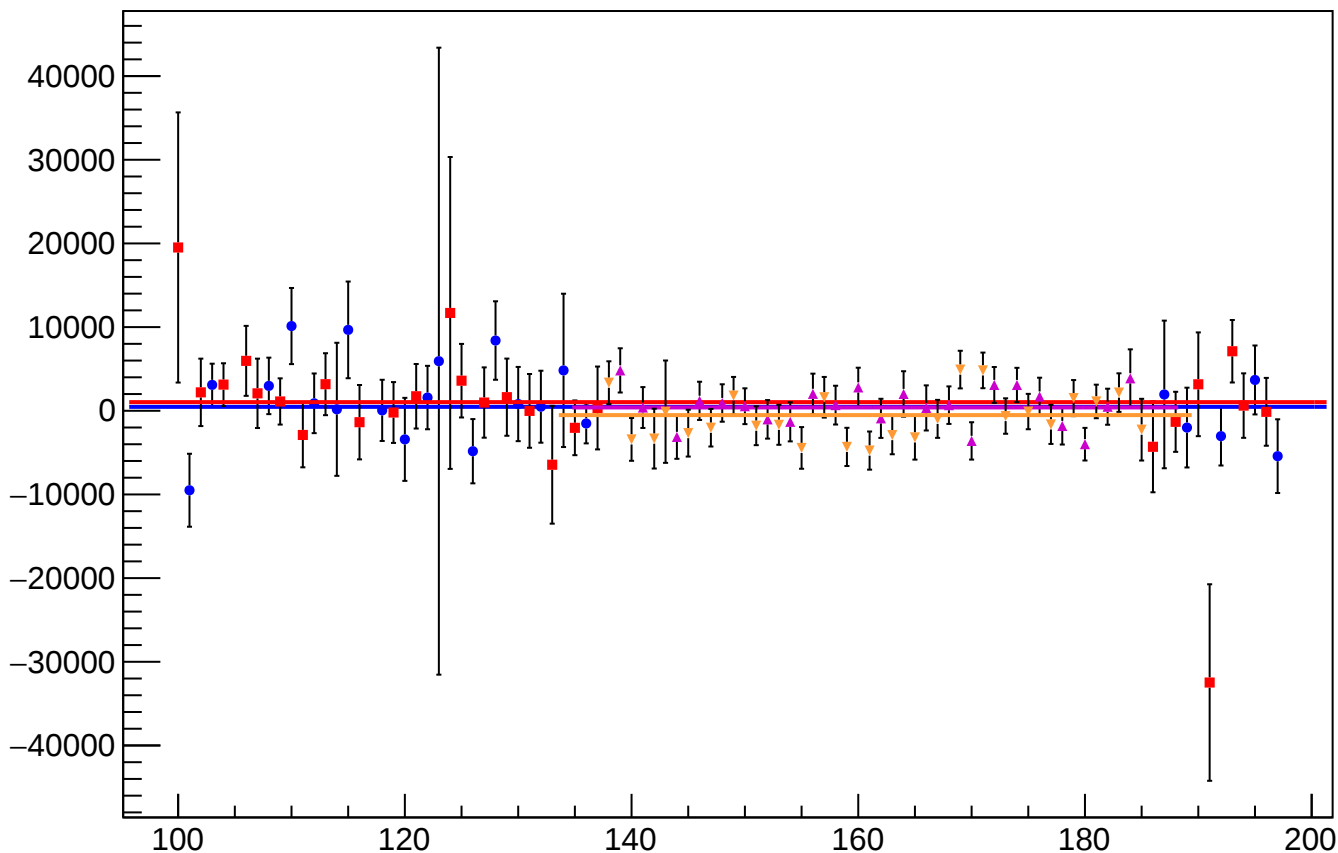
Right: 1677.824+/-0.284 χ^2/NDF : 6343078.9/47

In: 1059.484+/-0.152 χ^2/NDF : 5769017.6/44

Out: 1071.239+/-0.150 χ^2/NDF : 7752365.8/50

All: 1065.451+/-0.107 χ^2/NDF : 13524401.6/95

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 468.730 $\pm$ 873.687 χ^2 /NDF: 24.0/21

Left Out: -517.719 $\pm$ 481.486 χ^2 /NDF:34.0/24

Right Out: 1033.330 $\pm$ 814.417 χ^2 /NDF: 20.5/25

Left In: 397.398 $\pm$ 485.048 χ^2 /NDF:21.8/22

Left: -63.533 $\pm$ 341.714 χ^2 /NDF: 57.7/47

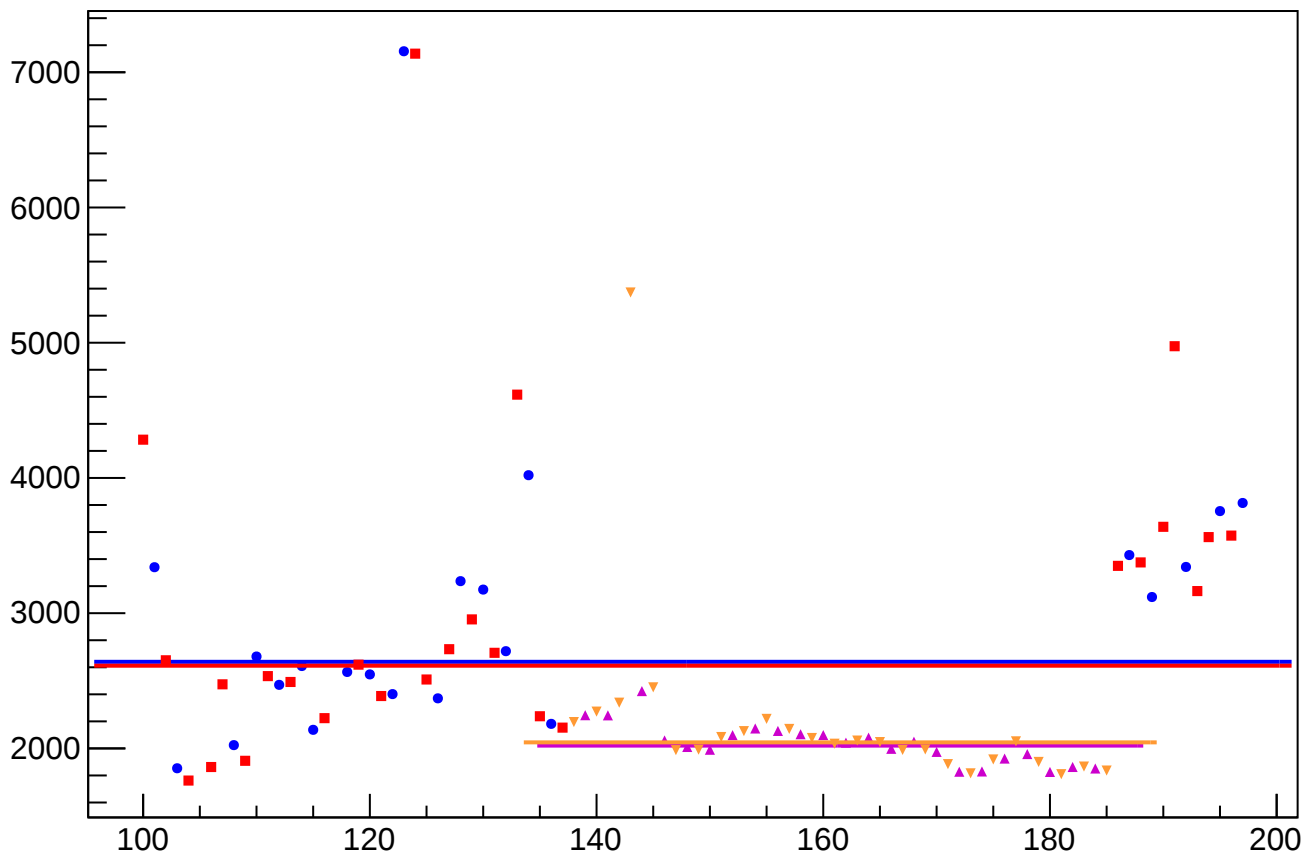
Right: 770.829 $\pm$ 595.732 χ^2 /NDF: 44.7/47

In: 414.204 $\pm$ 424.077 χ^2 /NDF:45.8/44

Out: -116.003 $\pm$ 414.471 χ^2 /NDF:57.2/50

All: 143.028 $\pm$ 296.413 χ^2 /NDF: 103.9/95

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2640.407 $\pm$ 0.618 χ^2 /NDF: 966232.9/21

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2611.628 $\pm$ 0.576 χ^2 /NDF: 1343577.5/25

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

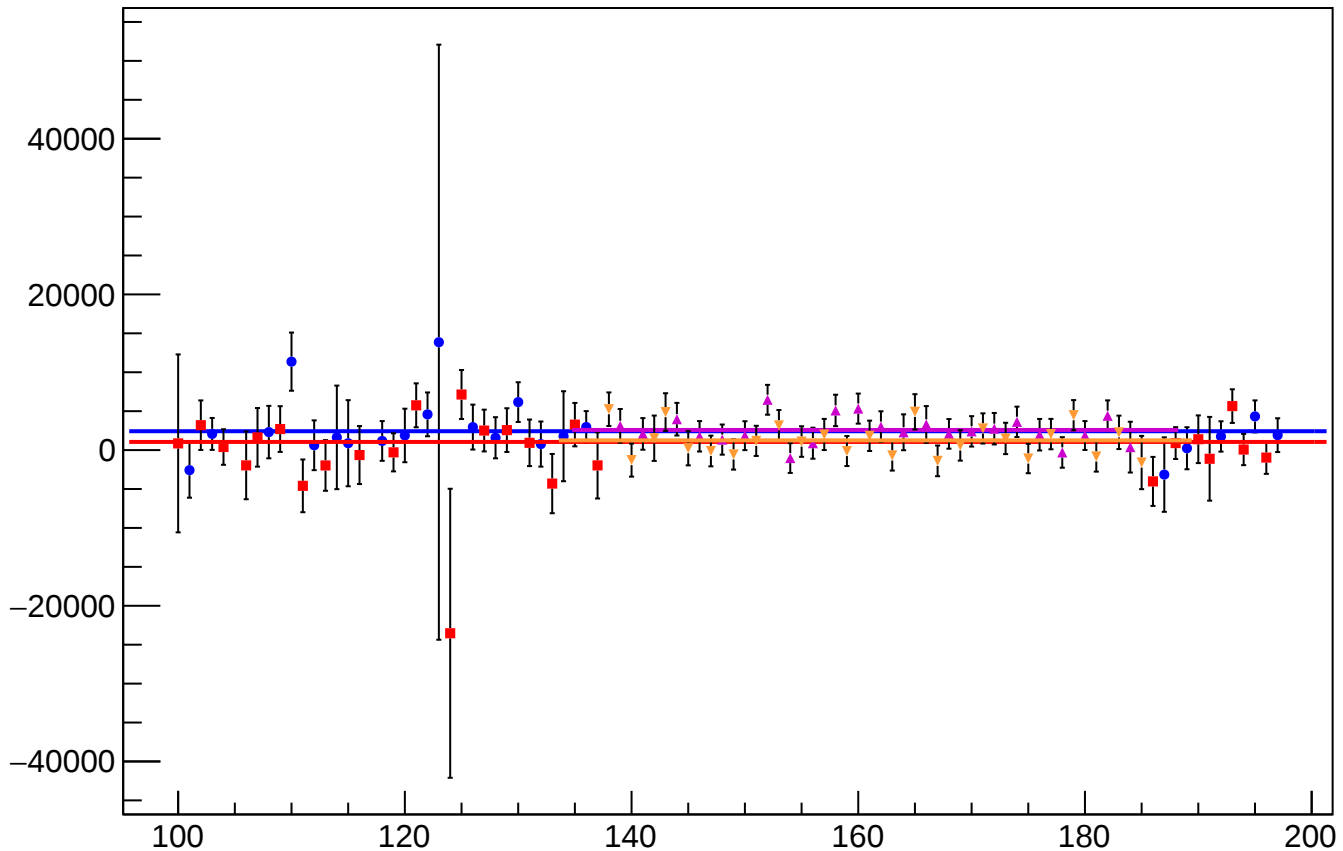
Right: 2625.008 $\pm$ 0.421 χ^2 /NDF: 2310971.5/47

In: 2166.782 $\pm$ 0.300 χ^2 /NDF: 1908635.1/44

Out: 2191.550 $\pm$ 0.293 χ^2 /NDF: 2850374.4/50

All: 2179.449 $\pm$ 0.210 χ^2 /NDF: 4762498.8/95

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2424.465+/-609.342 χ^2/NDF : 14.8/21

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

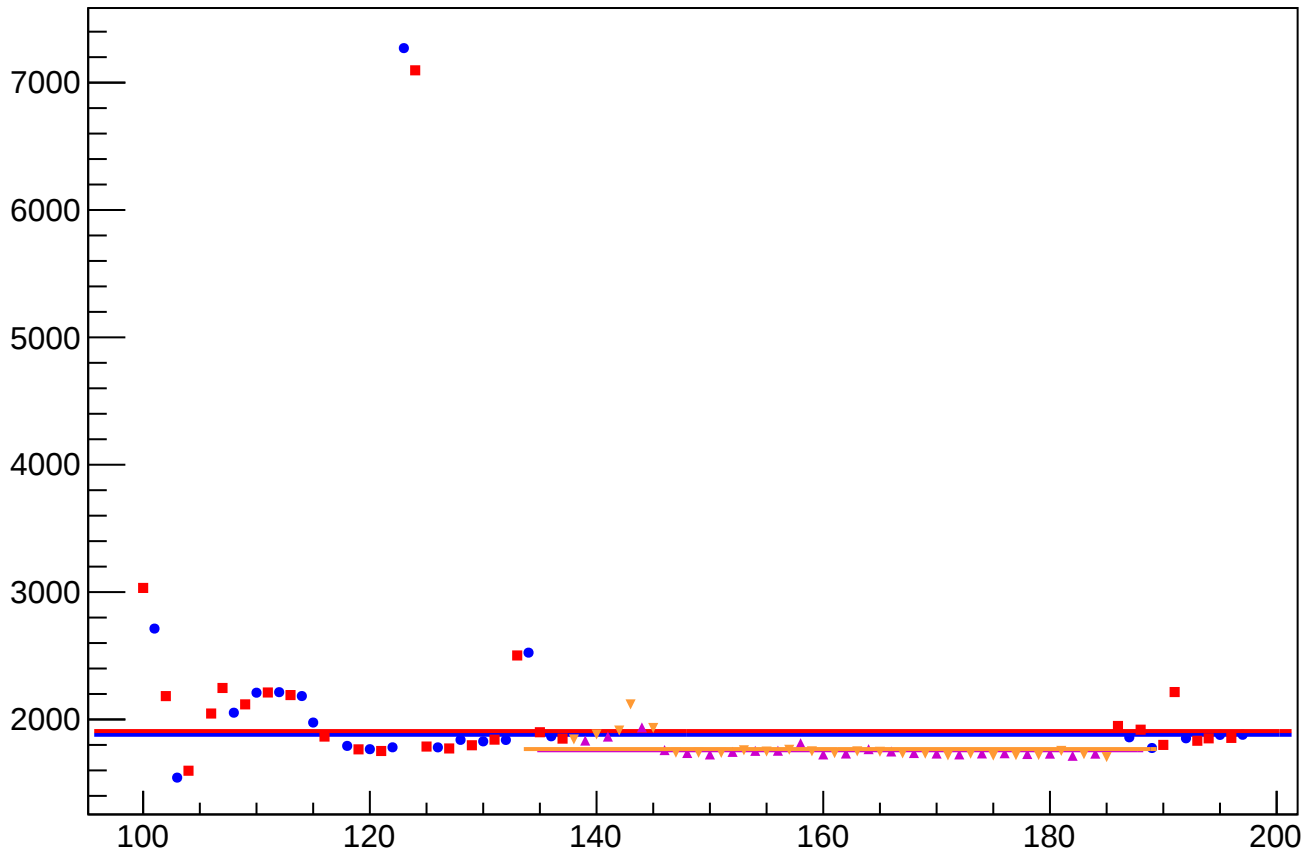
Right: 1700.542+/-419.467 χ^2/NDF : 43.5/47

In: 2534.354+/-346.653 χ^2/NDF : 32.4/44

Out: 1181.995+/-335.815 χ^2/NDF : 49.0/50

All: 1836.703+/-241.198 χ^2/NDF : 89.2/95

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1879.791+/-0.431 χ^2/NDF : 291696.0/21

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

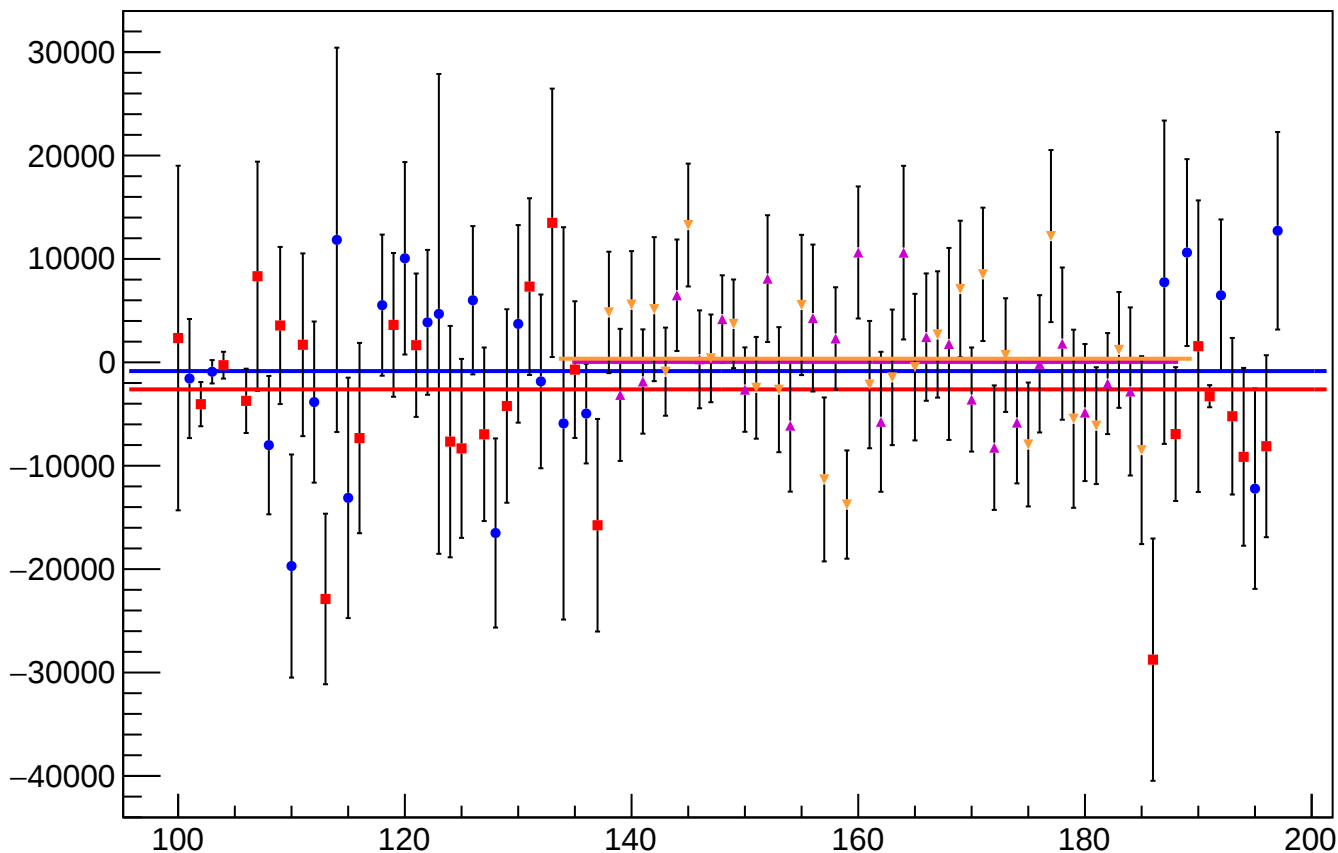
Right: 1895.124+/-0.296 χ^2/NDF : 670681.0/47

In: 1797.469+/-0.245 χ^2/NDF : 375474.4/44

Out: 1815.254+/-0.237 χ^2/NDF : 533595.5/50

All: 1806.647+/-0.171 χ^2/NDF : 911786.8/95

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -845.634 $\pm$ 959.279 χ^2 /NDF: 19.9/21

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

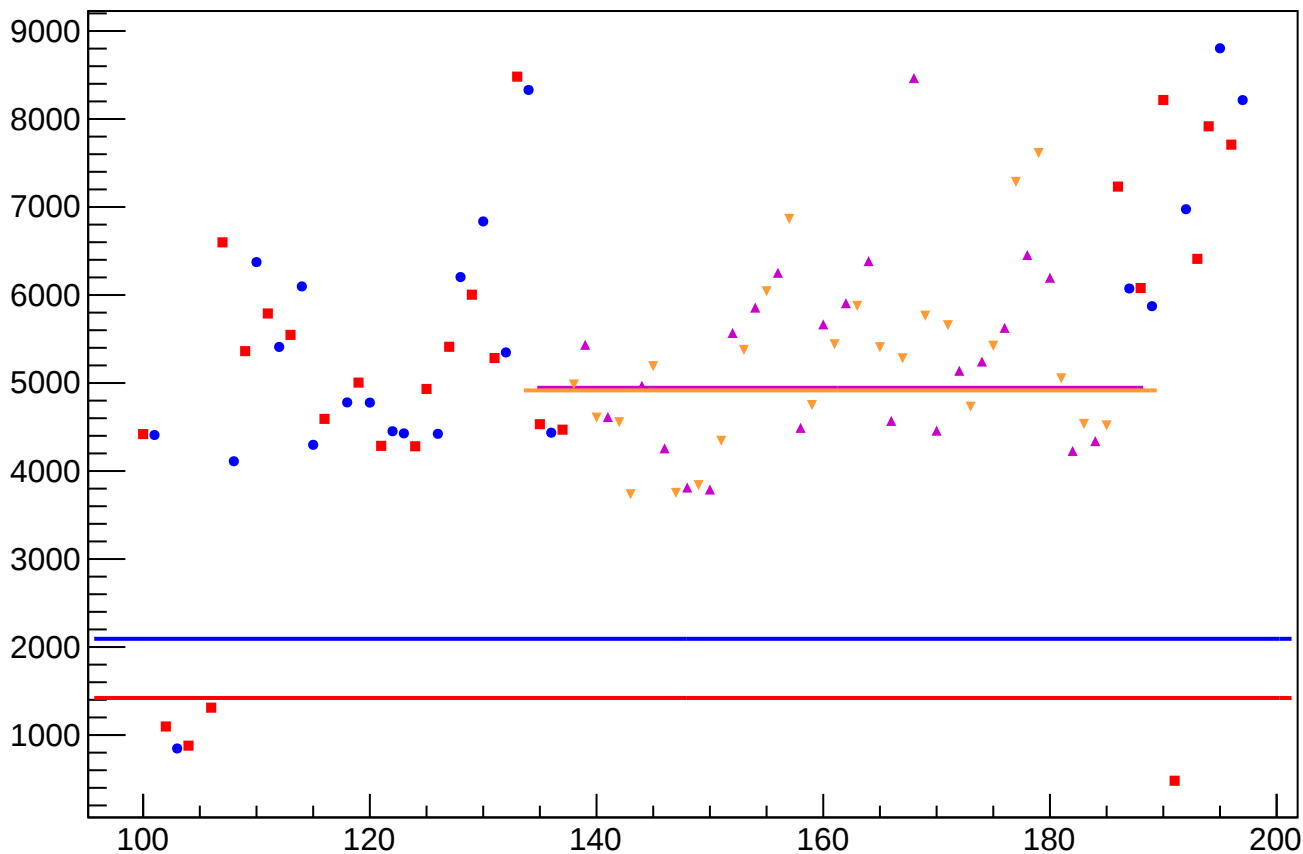
Right: -2007.723 $\pm$ 561.926 χ^2 /NDF: 47.9/47

In: -502.717 $\pm$ 751.104 χ^2 /NDF:36.2/44

Out: -1843.974 $\pm$ 596.476 χ^2 /NDF:58.4/50

All: -1325.248 $\pm$ 467.103 χ^2 /NDF: 96.6/95

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2093.463+/-0.678 χ^2/NDF : 9750381.8/21

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

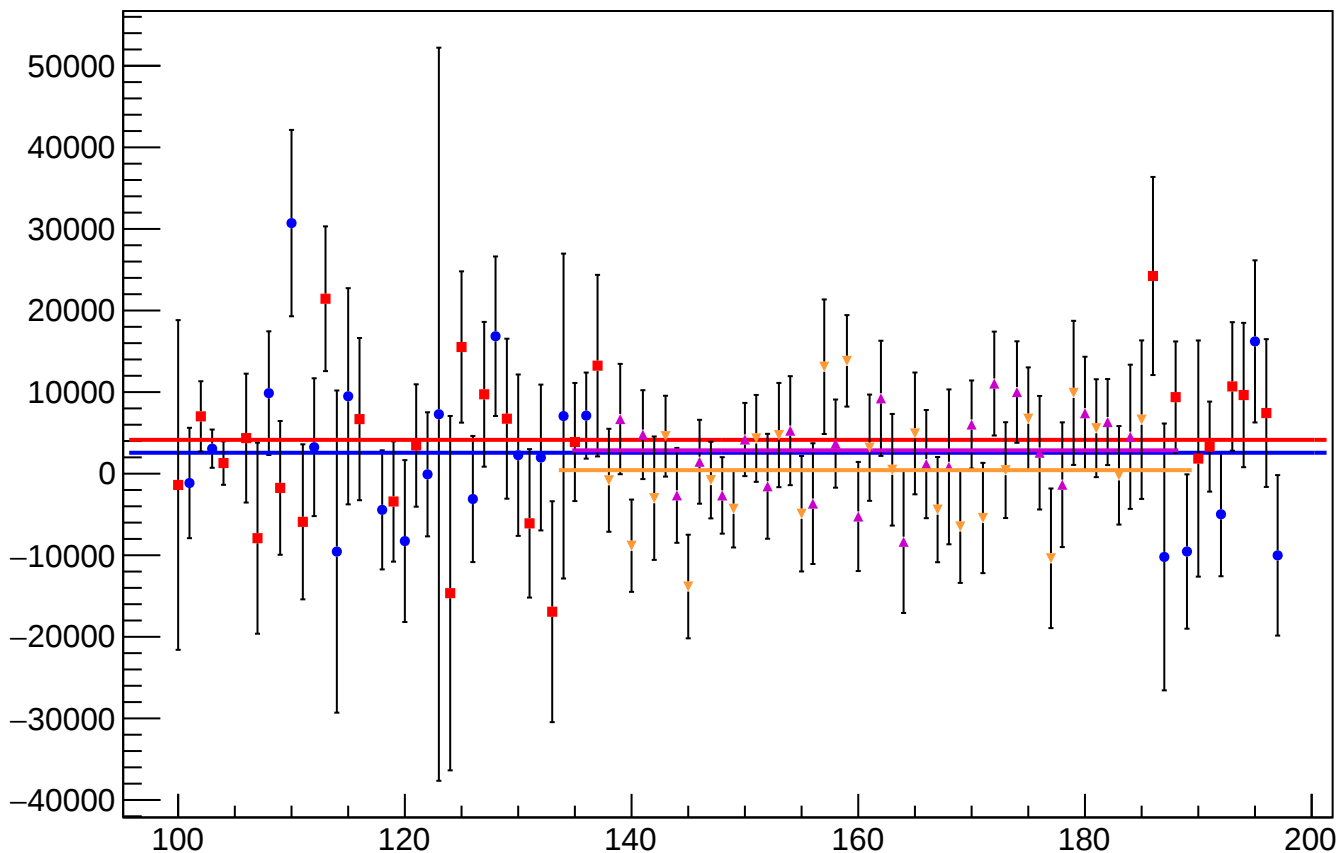
Right: 1651.897+/-0.397 χ^2/NDF : 23512829.9/47

In: 3197.123+/-0.531 χ^2/NDF : 17780608.8/44

Out: 2329.421+/-0.422 χ^2/NDF : 27508389.5/50

All: 2665.001+/-0.330 χ^2/NDF : 46925860.0/95

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2563.940+/-1509.598 χ^2/NDF : 20.5/21

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4144.768+/-1423.290 χ^2/NDF : 20.9/25

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

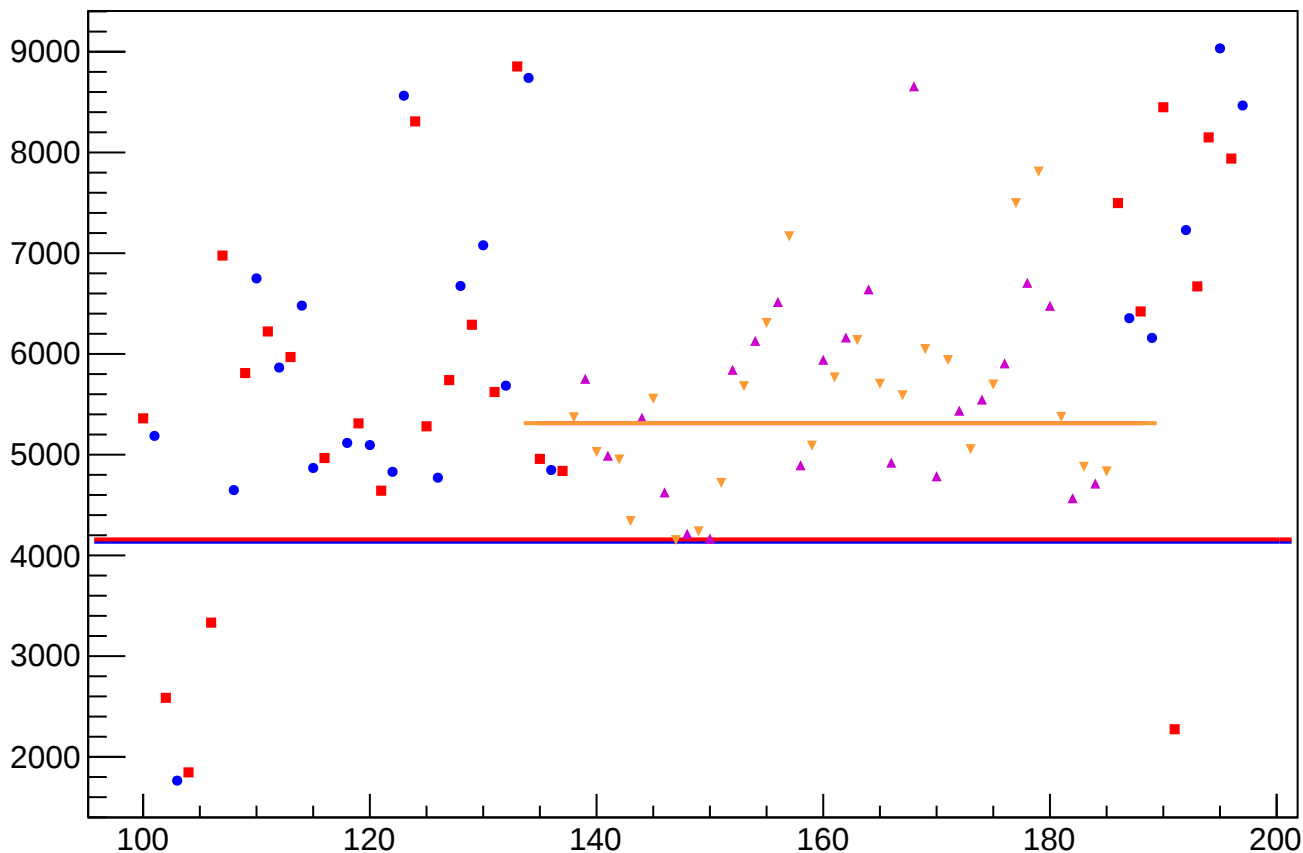
Right: 3400.834+/-1035.586 χ^2/NDF : 42.0/47

In: 2734.935+/-981.727 χ^2/NDF : 33.4/44

Out: 2060.131+/-942.702 χ^2/NDF : 51.9/50

All: 2383.855+/-679.969 χ^2/NDF : 85.5/95

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4135.805+/-1.067 χ^2/NDF : 4278850.9/21

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

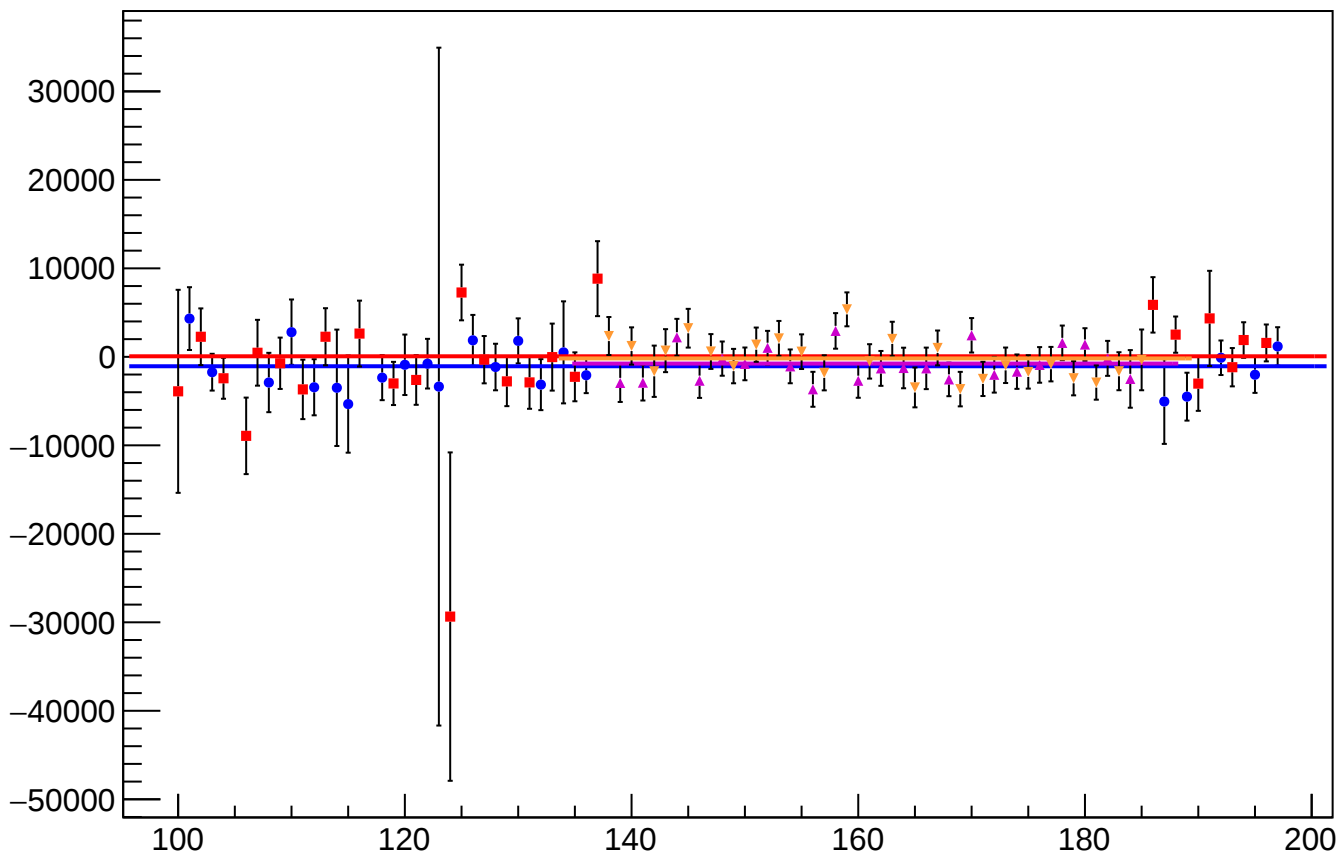
Right: 4148.011+/-0.730 χ^2/NDF : 8853027.4/47

In: 4815.060+/-0.694 χ^2/NDF : 5937928.9/44

Out: 4803.659+/-0.665 χ^2/NDF : 6210975.5/50

All: 4809.115+/-0.480 χ^2/NDF : 12149045.0/95

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1063.512 ± 608.007 $\chi^2/\text{NDF}: 12.4/21$

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 $\chi^2/\text{NDF}: 50.5/47$

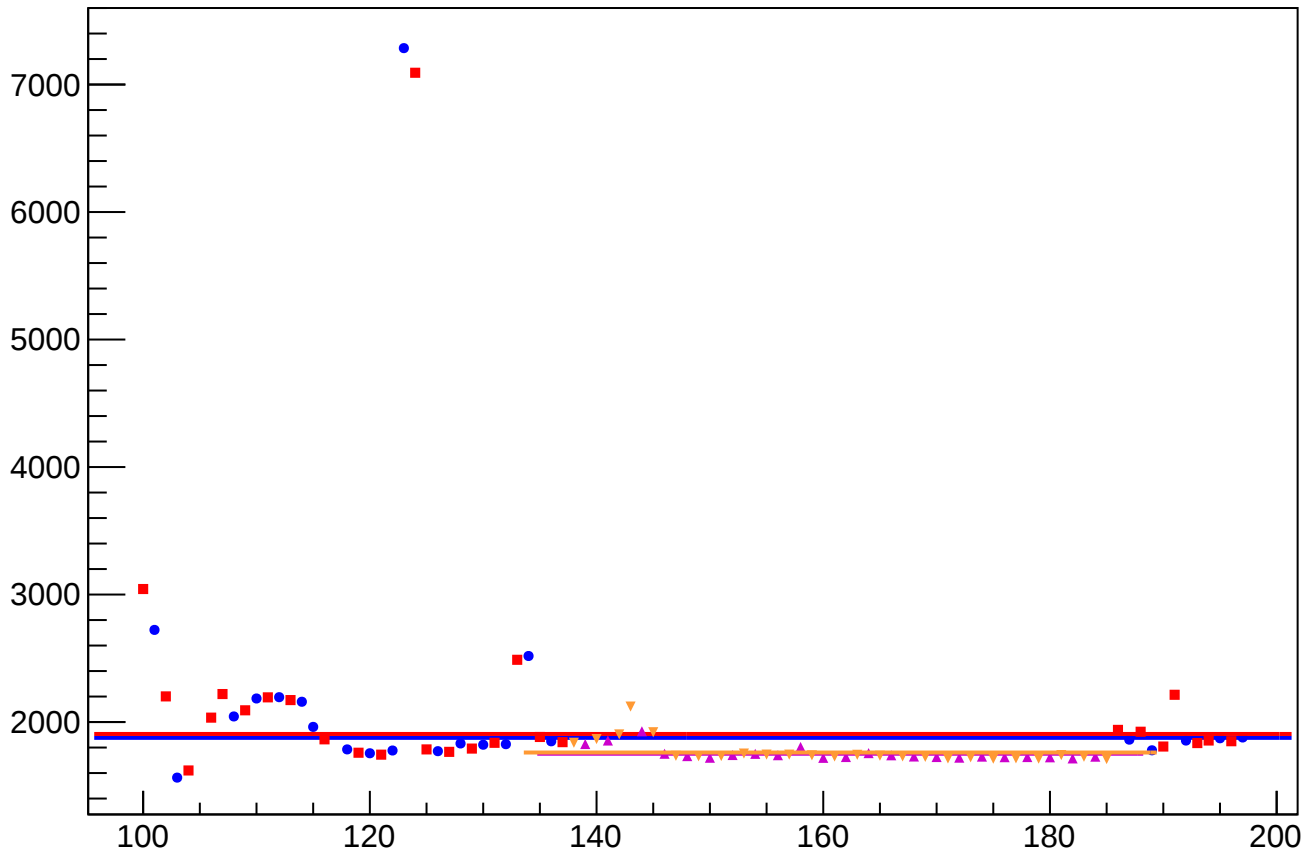
Right: -471.206 ± 418.668 $\chi^2/\text{NDF}: 48.0/47$

In: -857.848 ± 345.514 $\chi^2/\text{NDF}: 32.8/44$

Out: -98.183 ± 334.814 $\chi^2/\text{NDF}: 63.2/50$

All: -466.070 ± 240.443 $\chi^2/\text{NDF}: 98.5/95$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1876.138+/-0.430 χ^2/NDF : 282469.8/21

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

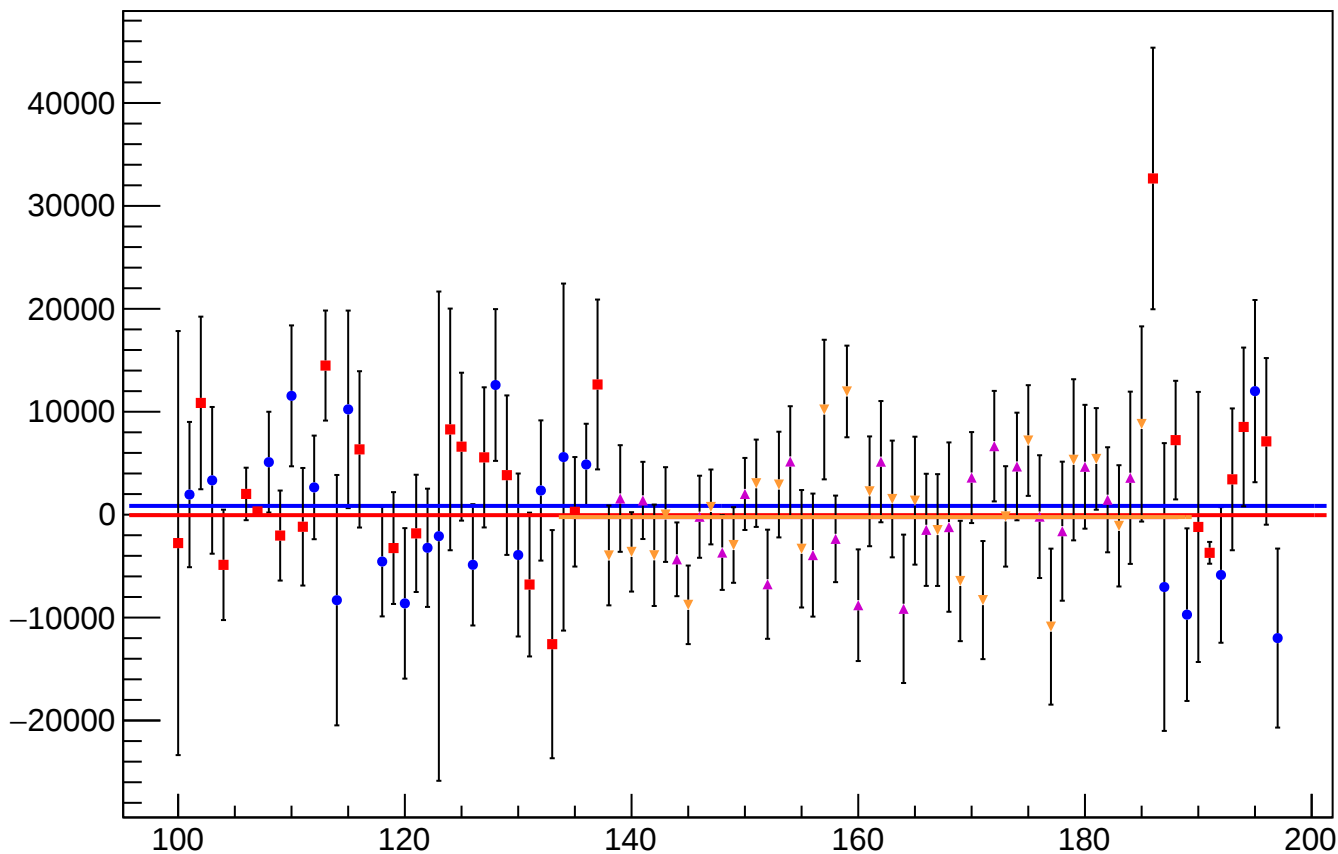
Right: 1892.155+/-0.296 χ^2/NDF : 649810.1/47

In: 1791.694+/-0.244 χ^2/NDF : 368028.1/44

Out: 1810.077+/-0.237 χ^2/NDF : 526559.1/50

All: 1801.178+/-0.170 χ^2/NDF : 897507.9/95

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 850.523+/-1464.504 χ^2/NDF : 19.9/21

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

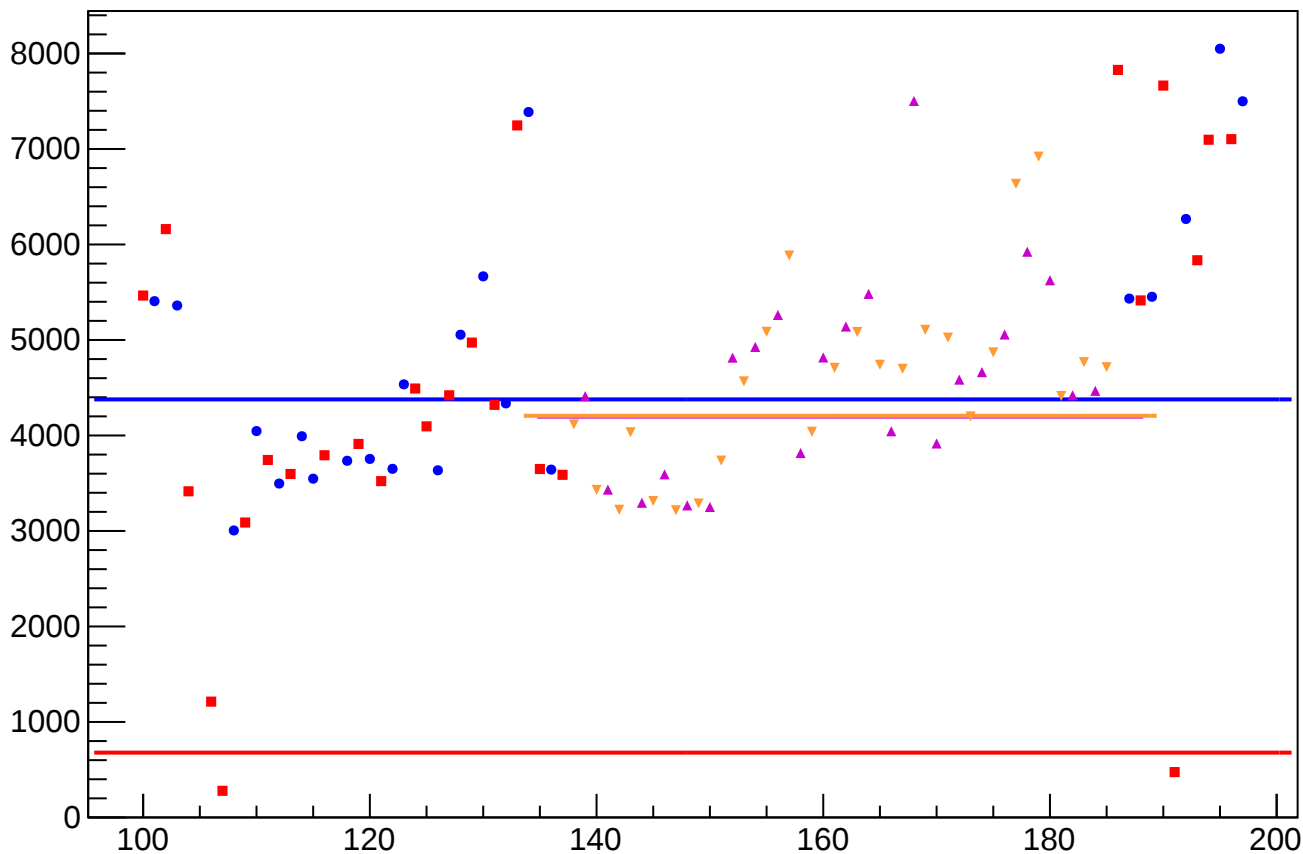
Right: 17.931+/-398.139 χ^2/NDF : 62.1/47

In: 120.899+/-841.885 χ^2/NDF : 35.6/44

Out: -75.649+/-382.581 χ^2/NDF : 70.7/50

All: -42.007+/-348.303 χ^2/NDF : 106.4/95

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4377.723+/-1.036

χ^2/NDF : 1441259.0/21

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right Out: 678.843+/-0.293

χ^2/NDF : 16655229.6/25

Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Right: 952.218+/-0.282

χ^2/NDF : 29911767.6/47

In: 4256.901+/-0.595

χ^2/NDF : 2932603.0/44

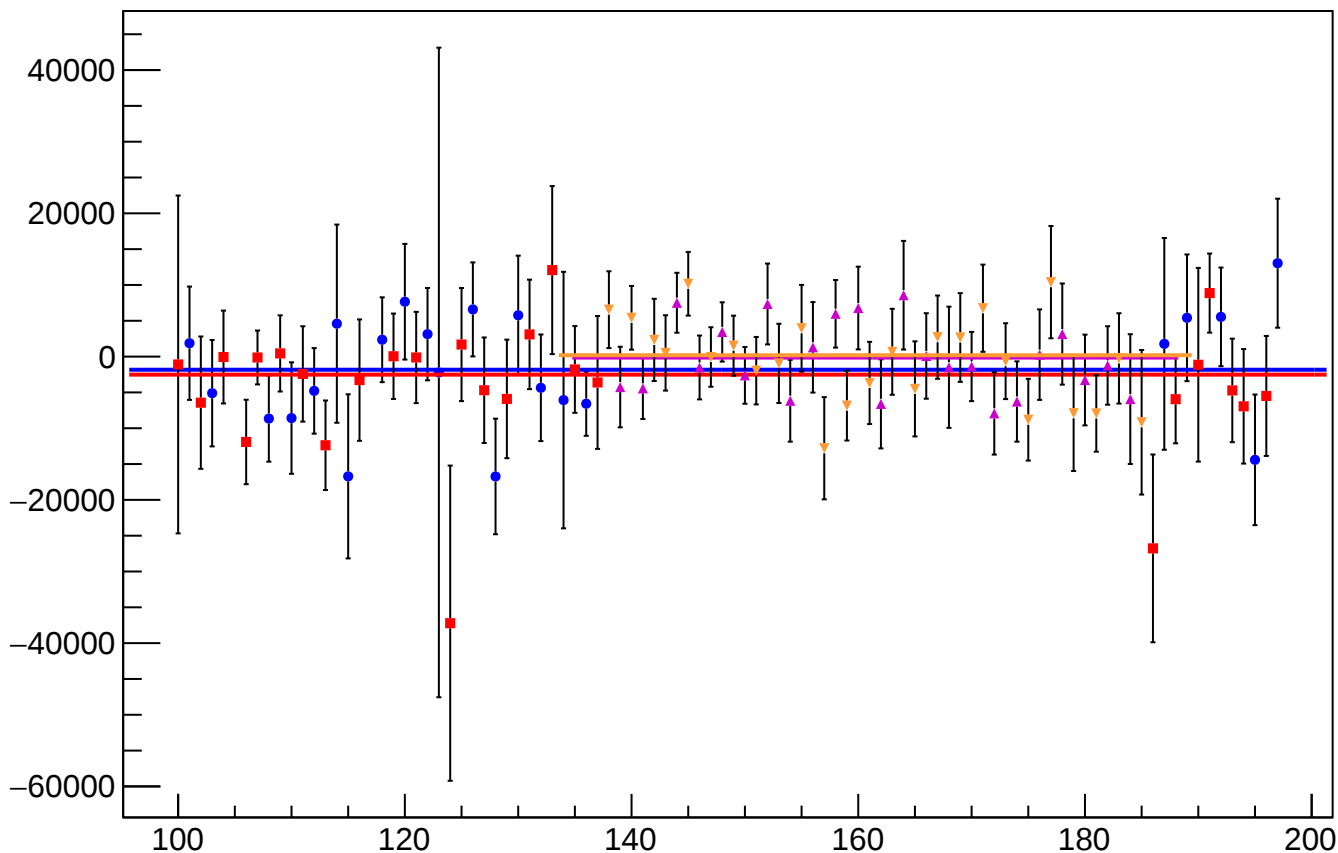
Out: 1189.846+/-0.271

χ^2/NDF : 39158179.6/50

All: 1714.812+/-0.246

χ^2/NDF : 64091490.9/95

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1832.973 ± 1634.185 χ^2/NDF : 20.8/21

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

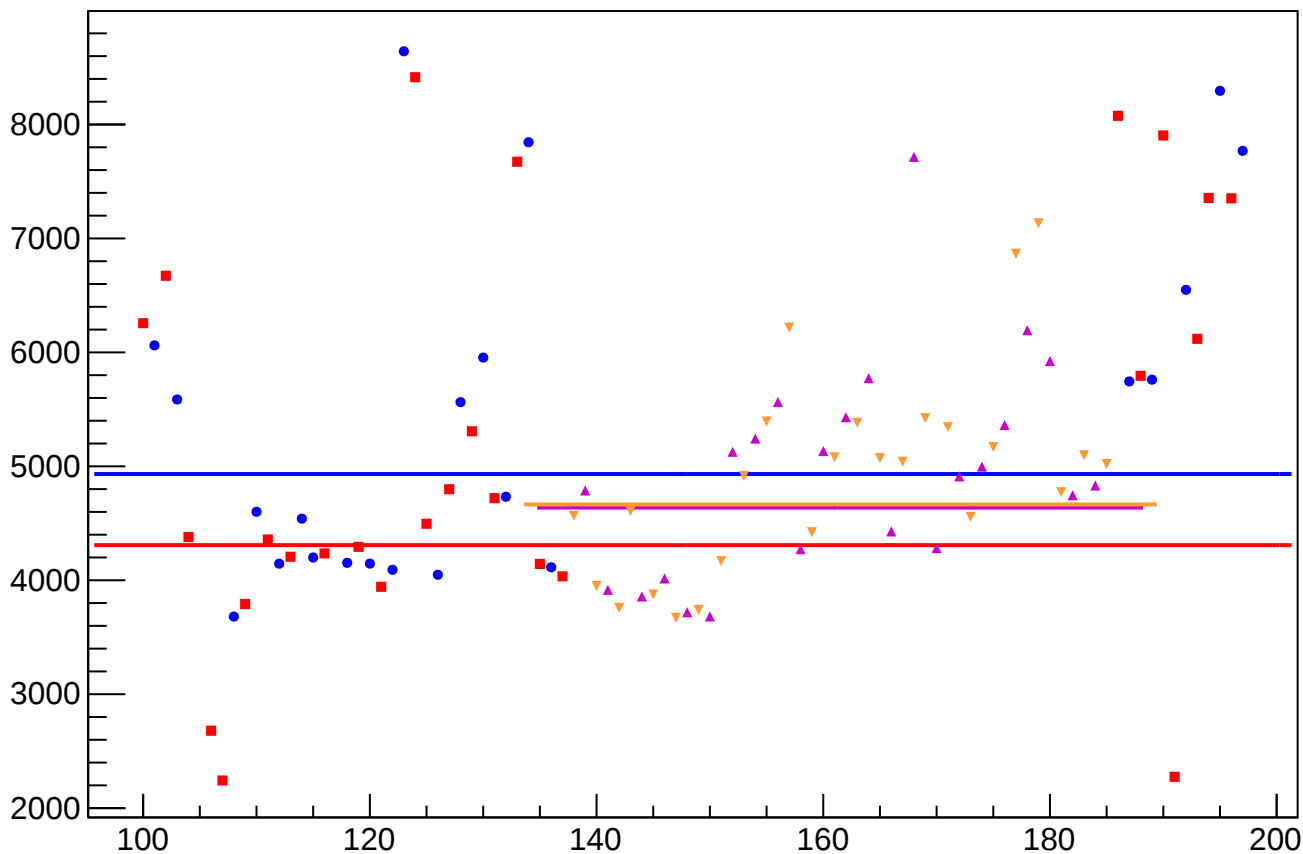
Right: -2231.163 ± 1056.666 χ^2/NDF : 40.9/47

In: -685.700 ± 929.247 χ^2/NDF : 40.1/44

Out: -865.144 ± 864.703 χ^2/NDF : 47.4/50

All: -781.870 ± 633.026 χ^2/NDF : 87.5/95

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4932.223+/-1.156

χ^2/NDF : 1096201.1/21

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

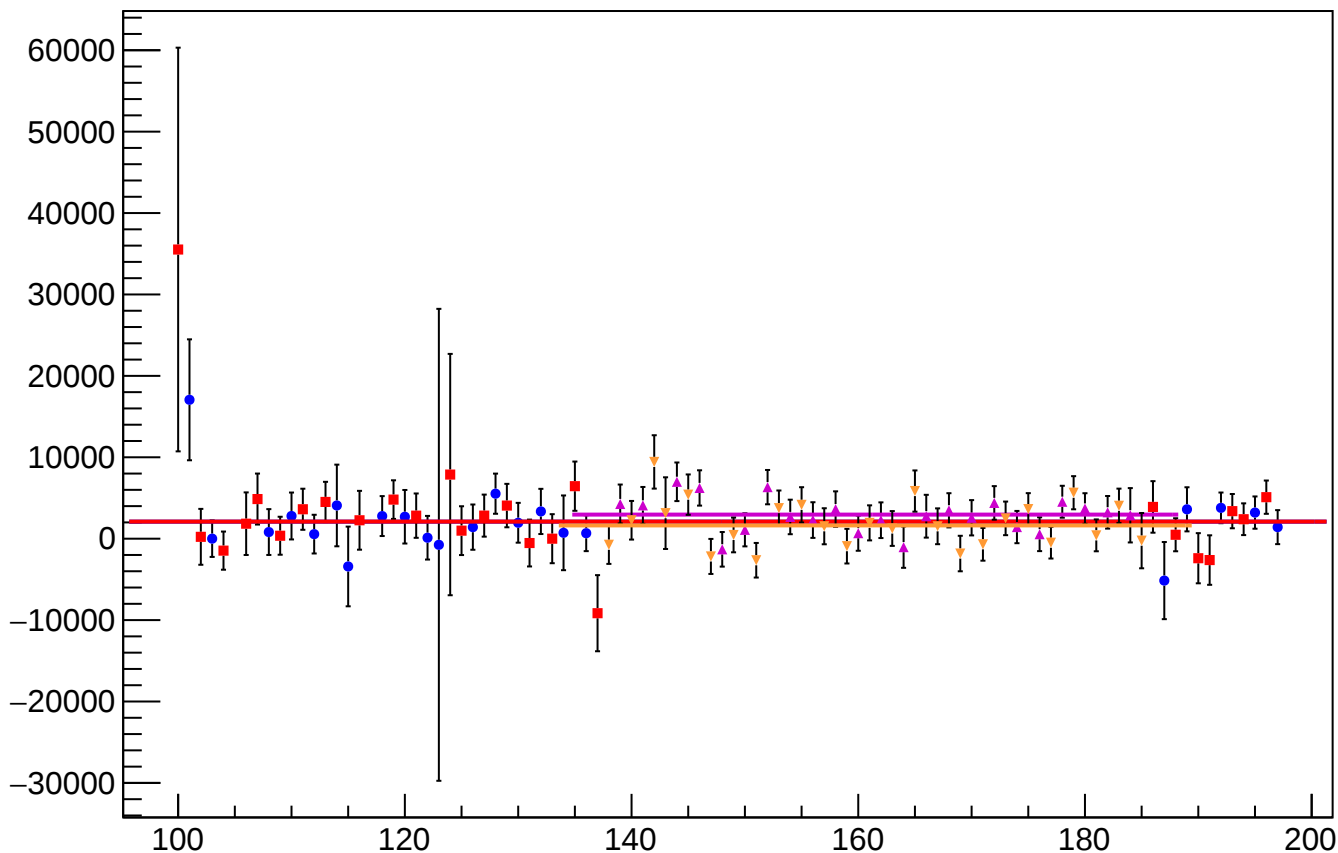
Right: 4567.584+/-0.745 χ^2/NDF : 3880257.7/47

In: 4732.984+/-0.657 χ^2/NDF : 2205353.1/44

Out: 4525.488+/-0.610 χ^2/NDF : 3712647.1/50

All: 4621.580+/-0.447 χ^2/NDF : 5971540.1/95

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2092.315 $\pm$ 586.000 χ^2 /NDF: 14.3/21

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

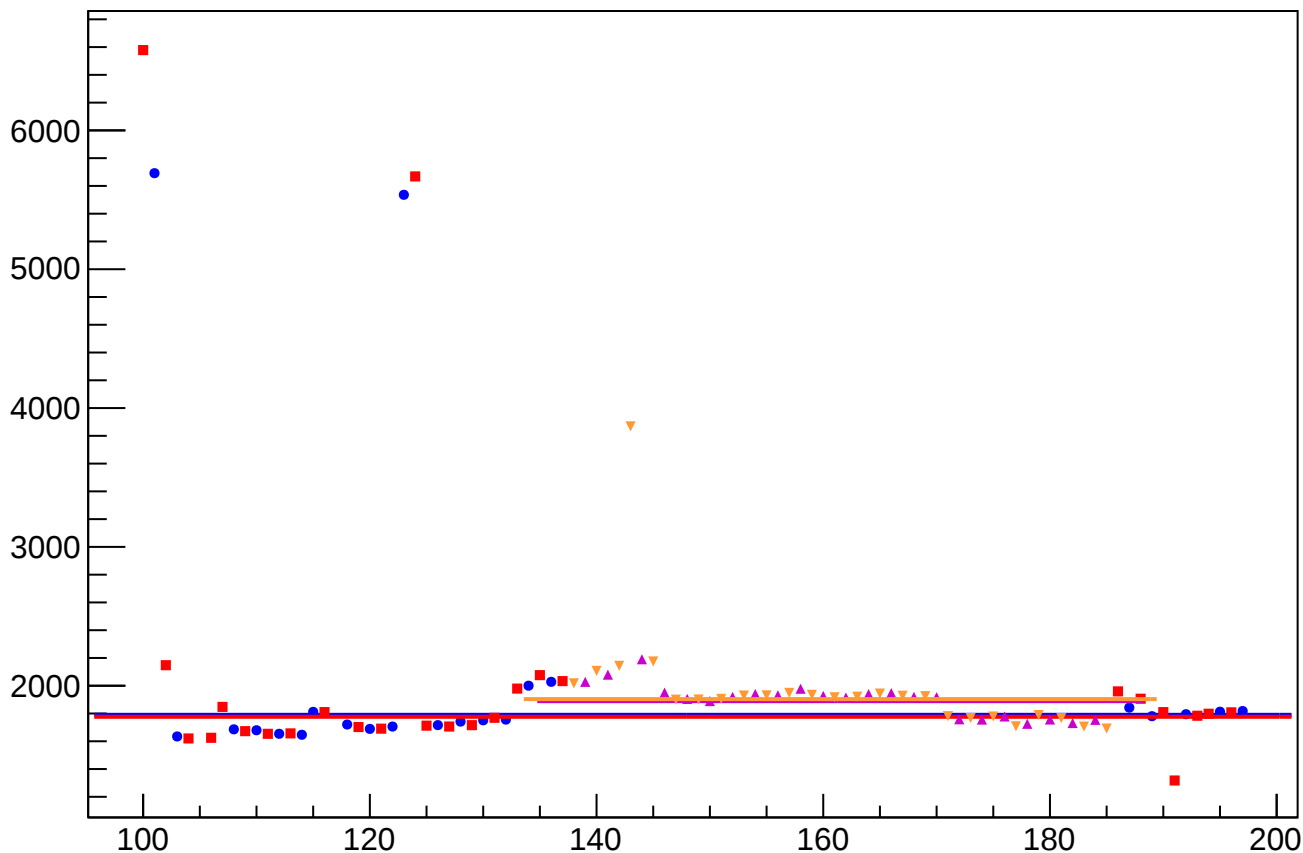
Right: 2096.769 $\pm$ 397.728 χ^2 /NDF: 40.9/47

In: 2633.958 $\pm$ 358.739 χ^2 /NDF:36.1/44

Out: 1820.732 $\pm$ 344.768 χ^2 /NDF:62.5/50

All: 2211.202 $\pm$ 248.580 χ^2 /NDF: 101.2/95

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1790.604+/-0.414 χ^2/NDF : 645685.9/21

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

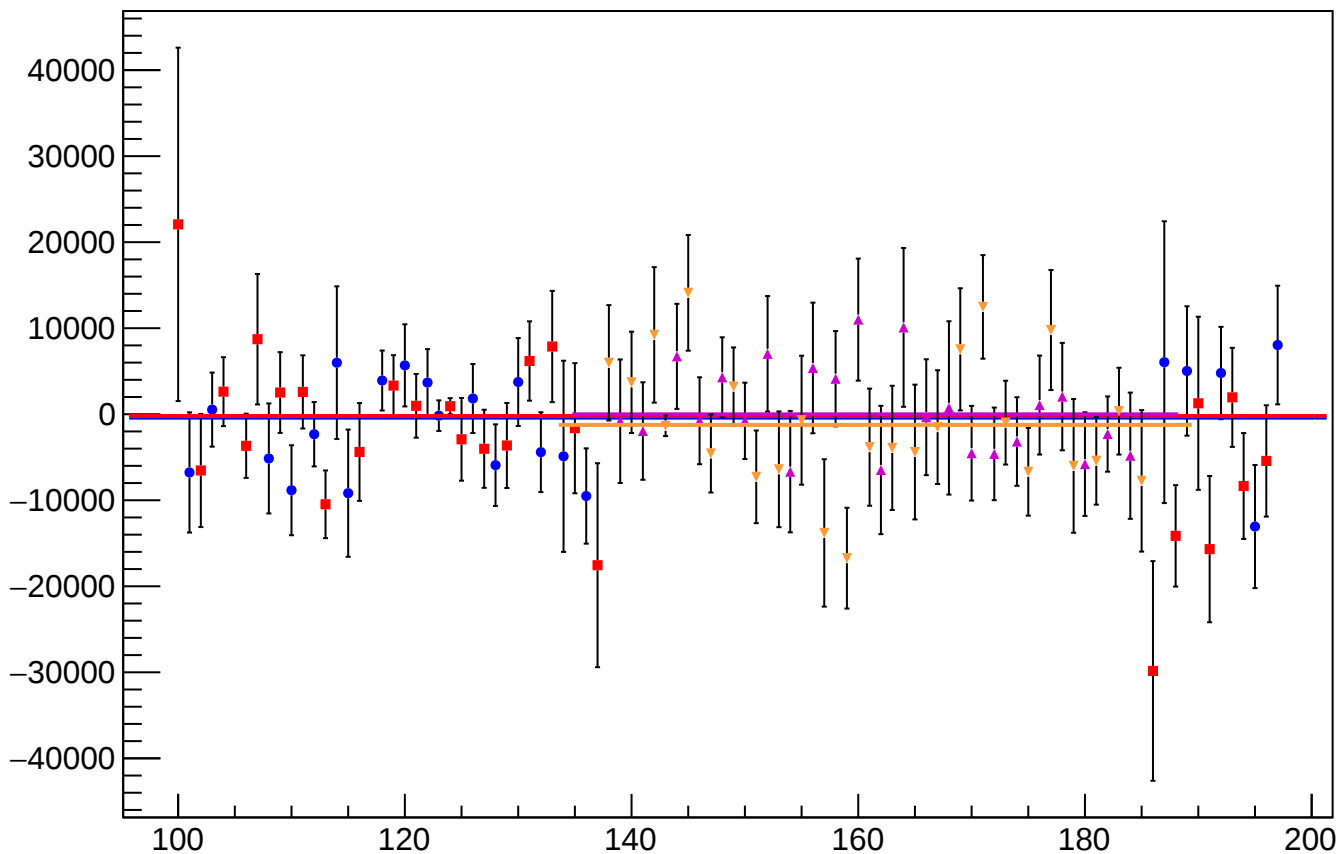
Right: 1782.922+/-0.281 χ^2/NDF : 1014189.2/47

In: 1852.079+/-0.254 χ^2/NDF : 807307.0/44

Out: 1851.802+/-0.243 χ^2/NDF : 975398.8/50

All: 1851.935+/-0.176 χ^2/NDF : 1782706.3/95

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -393.423 ± 964.454 χ^2/NDF : 22.7/21

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

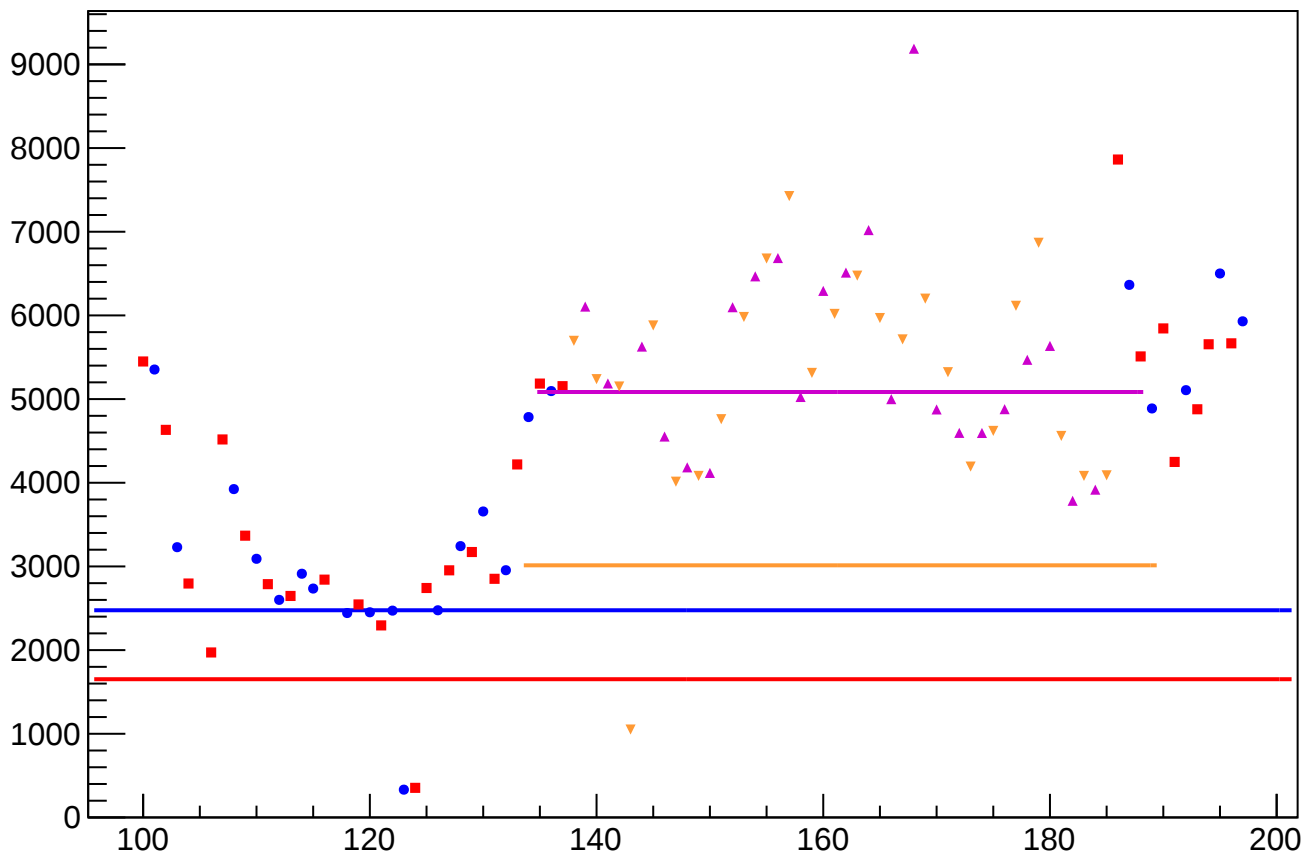
Right: -272.427 ± 566.862 χ^2/NDF : 62.3/47

In: -251.584 ± 762.057 χ^2/NDF : 36.0/44

Out: -617.018 ± 544.505 χ^2/NDF : 74.3/50

All: -493.507 ± 443.033 χ^2/NDF : 110.5/95

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2476.229 $\pm$ 0.682 χ^2 /NDF: 6094949.5/21

Left Out: 3013.268 $\pm$ 0.612 χ^2 /NDF: 12270753.9/24

Right Out: 1652.143 $\pm$ 0.495 χ^2 /NDF: 11236551.7/25

Left In: 5084.645 $\pm$ 0.879 χ^2 /NDF: 1303587.7/22

Left: 3689.075 $\pm$ 0.502 χ^2 /NDF: 17314385.8/47

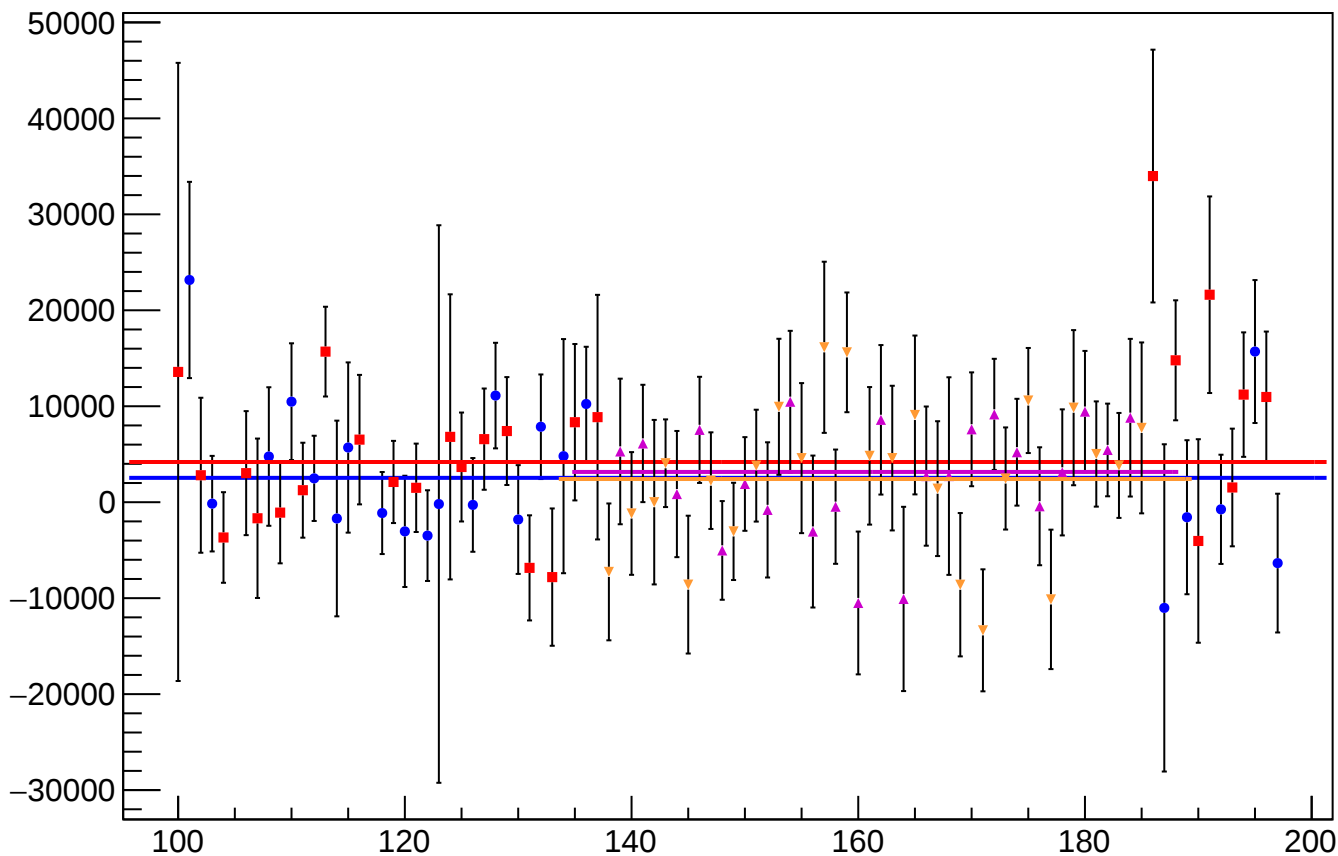
Right: 1936.827 $\pm$ 0.401 χ^2 /NDF: 18287268.2/47

In: 3456.142 $\pm$ 0.539 χ^2 /NDF: 12894343.4/44

Out: 2191.240 $\pm$ 0.385 χ^2 /NDF: 26496681.7/50

All: 2618.757 $\pm$ 0.313 χ^2 /NDF: 43038876.4/95

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2538.415 $\pm$ 1334.874 χ^2 /NDF: 21.6/21

Left Out: 2417.210 $\pm$ 1286.482 χ^2 /NDF:29.9/24

Right Out: 4190.240 $\pm$ 1245.601 χ^2 /NDF: 33.2/25

Left In: 3153.449 $\pm$ 1337.378 χ^2 /NDF:15.5/22

Left: 2771.054 $\pm$ 927.151 χ^2 /NDF: 45.5/47

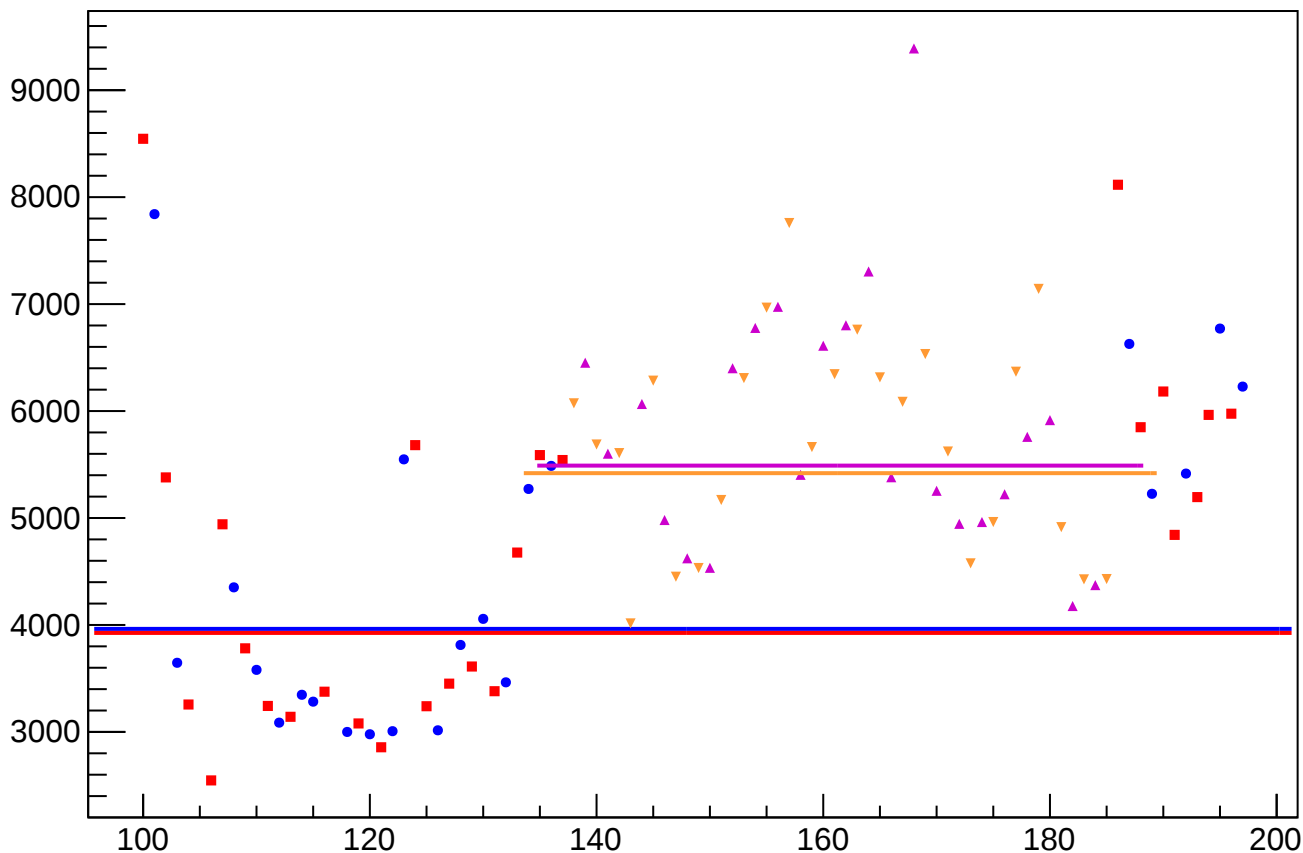
Right: 3421.405 $\pm$ 910.699 χ^2 /NDF: 55.6/47

In: 2845.356 $\pm$ 944.782 χ^2 /NDF:37.2/44

Out: 3332.344 $\pm$ 894.877 χ^2 /NDF:64.1/50

All: 3102.051 $\pm$ 649.700 χ^2 /NDF: 101.4/95

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3963.374 $\pm$ 0.944 χ^2 /NDF: 1610794.3/21

Left Out: 5419.305 $\pm$ 0.910 χ^2 /NDF:1109972.1/24

Right Out: 3925.610 $\pm$ 0.871 χ^2 /NDF: 1818213.7/25

Left In: 5489.885 $\pm$ 0.946 χ^2 /NDF:1064353.3/22

Left: 5453.227 $\pm$ 0.656 χ^2 /NDF: 2177218.7/47

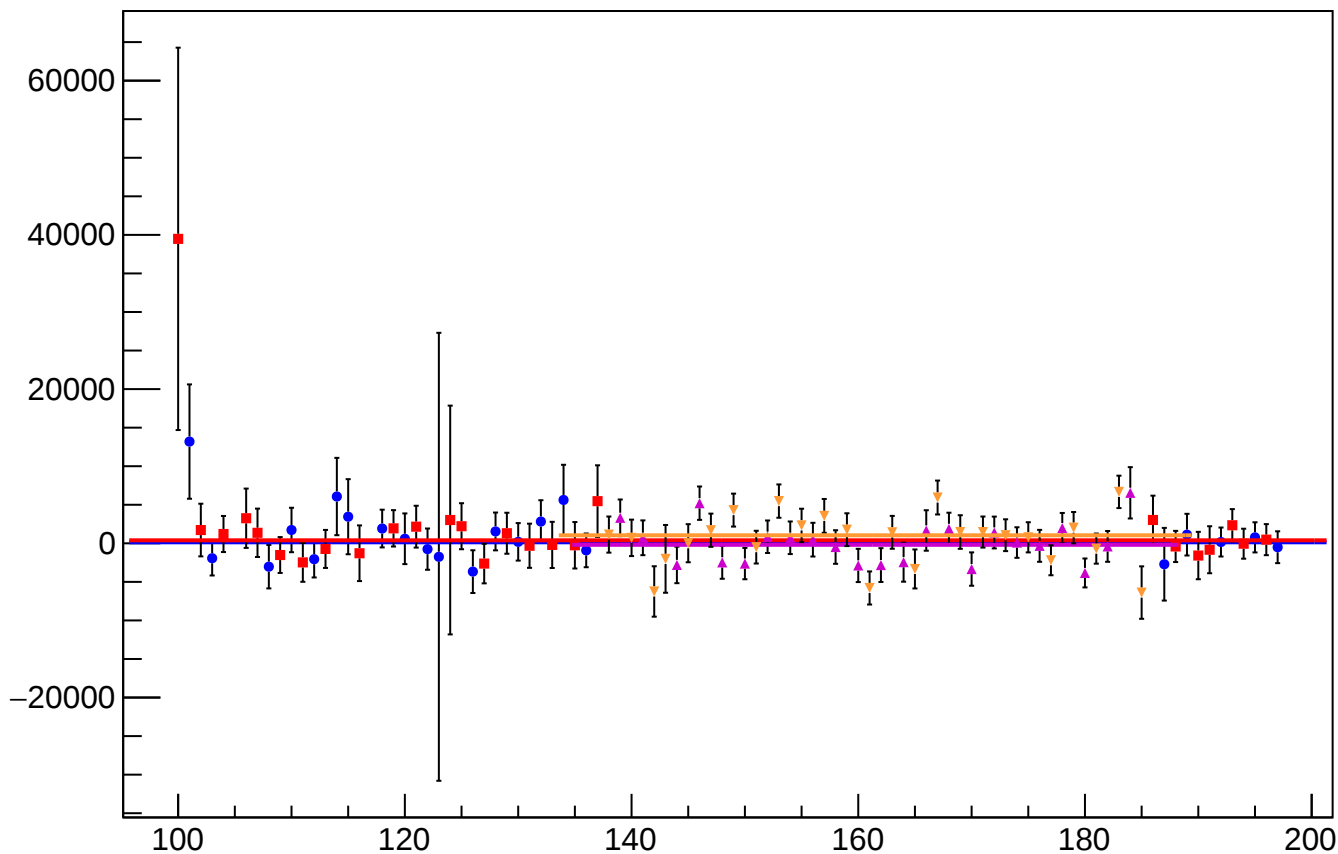
Right: 3942.972 $\pm$ 0.640 χ^2 /NDF: 3429872.8/47

In: 4725.195 $\pm$ 0.668 χ^2 /NDF:3980437.9/44

Out: 4639.812 $\pm$ 0.629 χ^2 /NDF:4335195.0/50

All: 4679.936 $\pm$ 0.458 χ^2 /NDF: 8324291.5/95

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.526 $\pm$ 583.292 χ^2 /NDF: 14.4/21

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

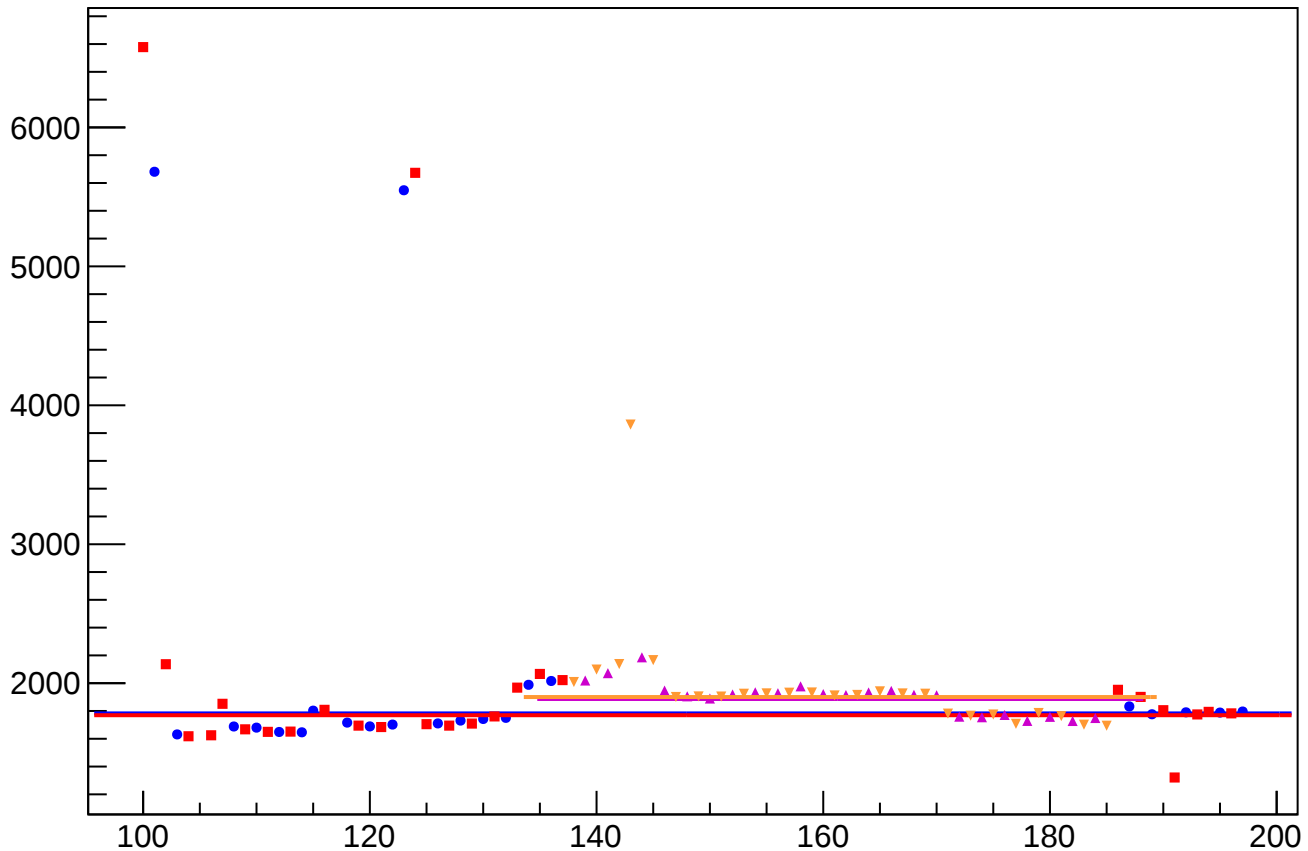
Right: 272.000 $\pm$ 396.019 χ^2 /NDF: 26.8/47

In: -69.489 $\pm$ 357.803 χ^2 /NDF:44.6/44

Out: 776.797 $\pm$ 343.833 χ^2 /NDF:61.7/50

All: 370.498 $\pm$ 247.918 χ^2 /NDF: 109.2/95

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1782.463+/-0.412 χ^2/NDF : 643433.3/21

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1769.536+/-0.380 χ^2/NDF : 364790.5/25

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

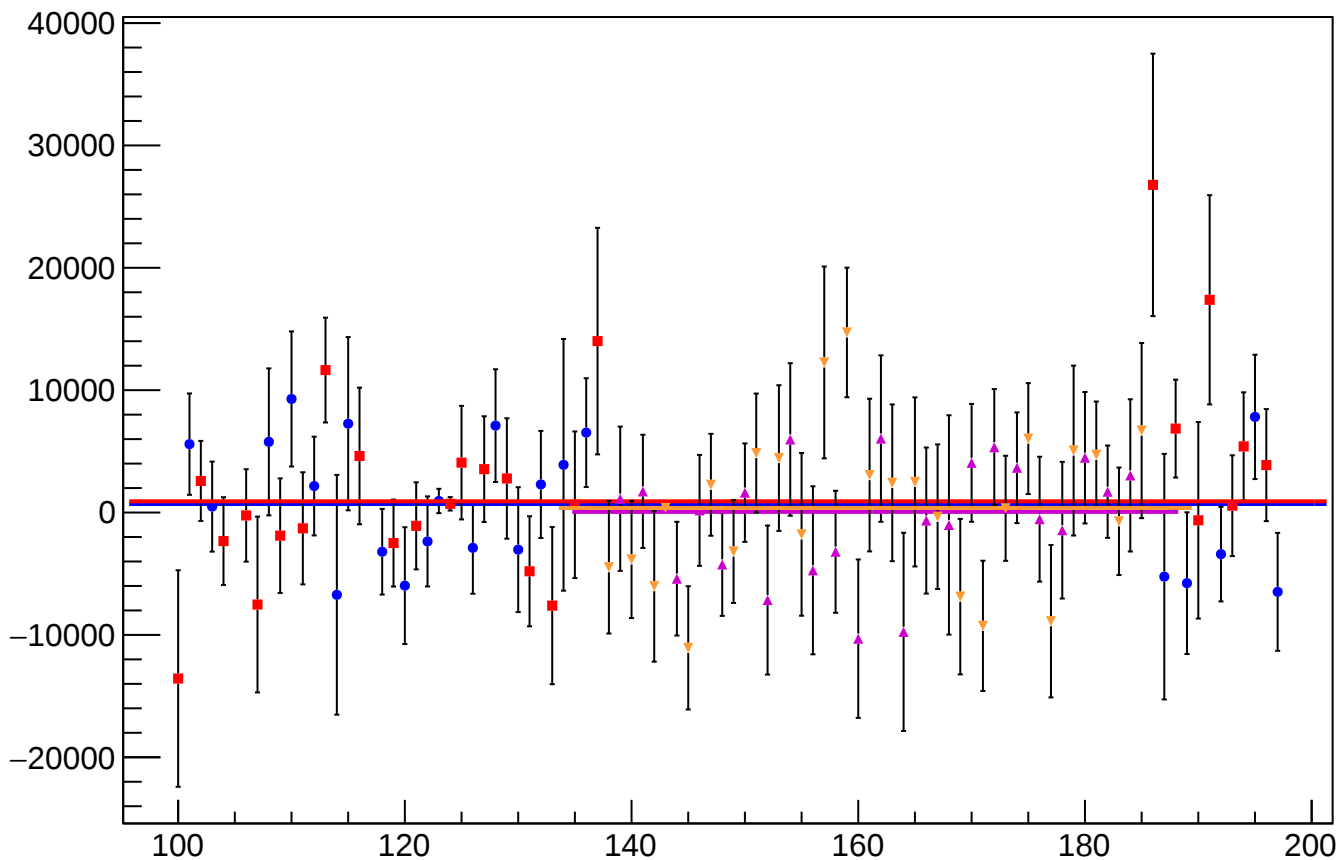
Right: 1775.468+/-0.279 χ^2/NDF : 1008755.4/47

In: 1847.276+/-0.253 χ^2/NDF : 806544.7/44

Out: 1846.892+/-0.243 χ^2/NDF : 972813.2/50

All: 1847.076+/-0.175 χ^2/NDF : 1779359.1/95

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 698.397+/-716.000 χ^2/NDF : 22.3/21

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

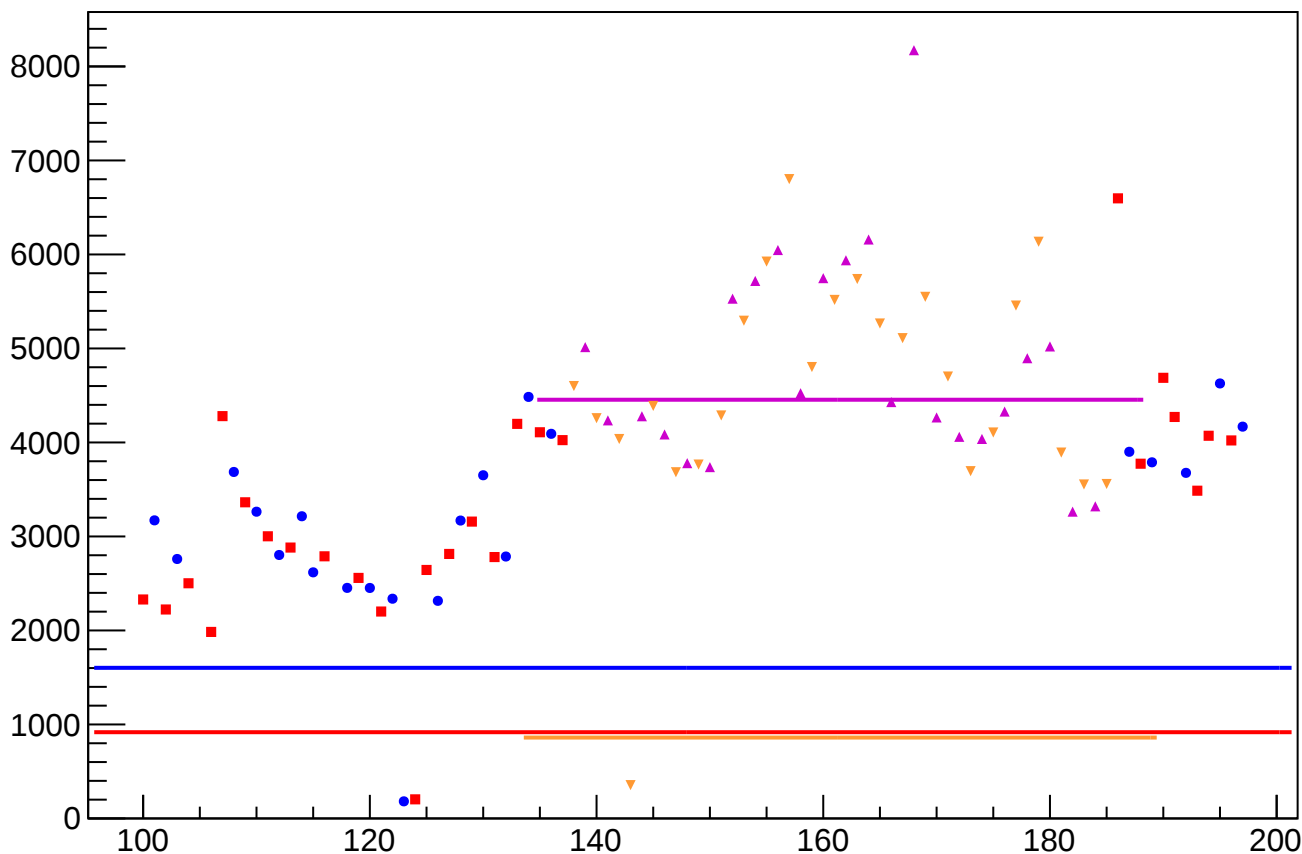
Right: 850.555+/-395.183 χ^2/NDF : 55.8/47

In: 503.858+/-598.419 χ^2/NDF :37.1/44

Out: 587.554+/-297.442 χ^2/NDF :65.1/50

All: 570.973+/-266.354 χ^2/NDF : 102.2/95

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1602.437+/-0.506

χ^2/NDF : 9312146.9/21

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

Left Out: 860.545+/-0.270

χ^2/NDF : 26340106.5/24

Right: 1126.188+/-0.279 χ^2/NDF : 25410485.8/47

Right Out: 917.555+/-0.335

χ^2/NDF : 14825853.9/25

In: 2462.224+/-0.423 χ^2/NDF : 20228089.4/44

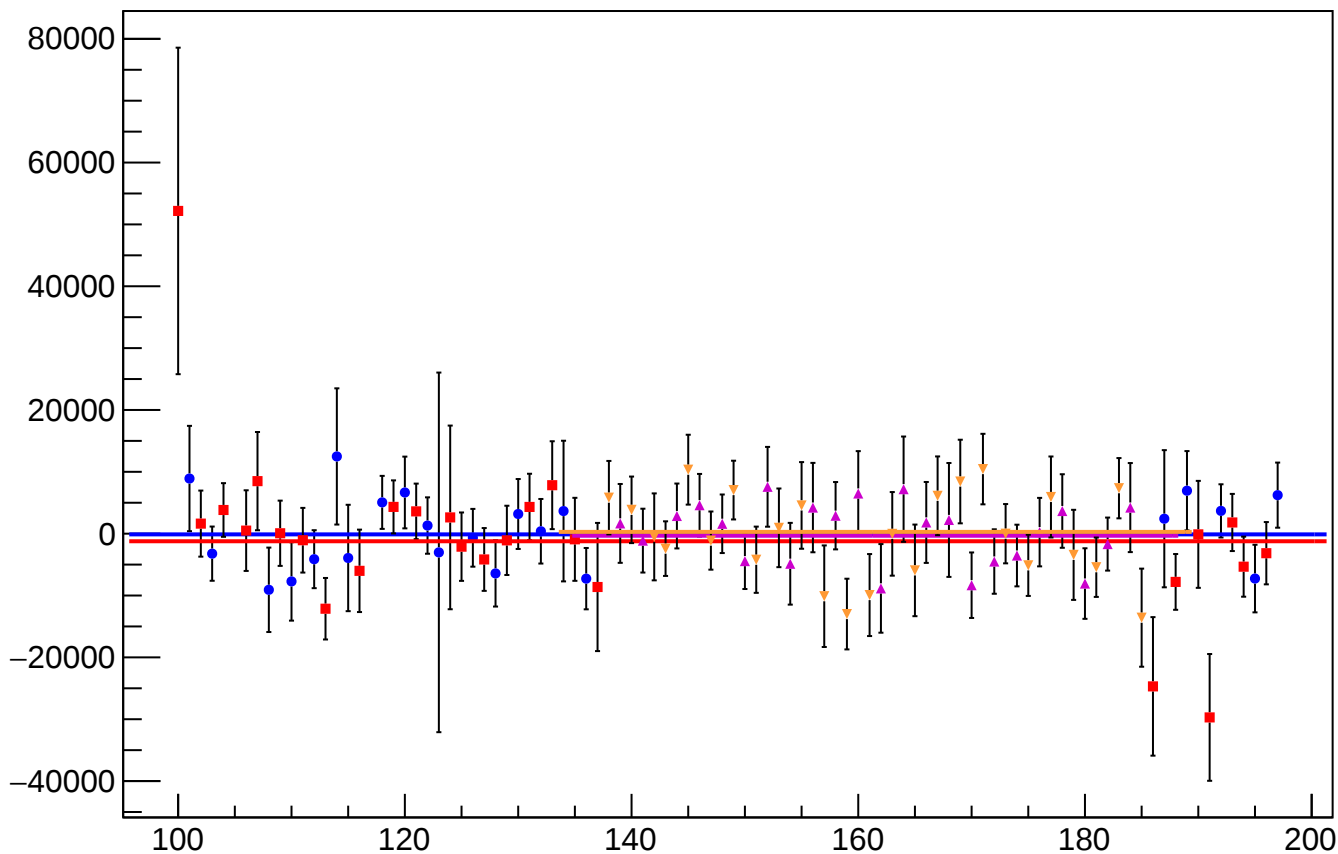
Out: 883.003+/-0.210 χ^2/NDF : 41183501.6/50

Left In: 4454.402+/-0.771

χ^2/NDF : 1349758.1/22

All: 1195.865+/-0.188 χ^2/NDF : 72580719.9/95

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -114.331 ± 1225.139 $\chi^2/\text{NDF}: 19.1/21$

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 $\chi^2/\text{NDF}: 47.2/47$

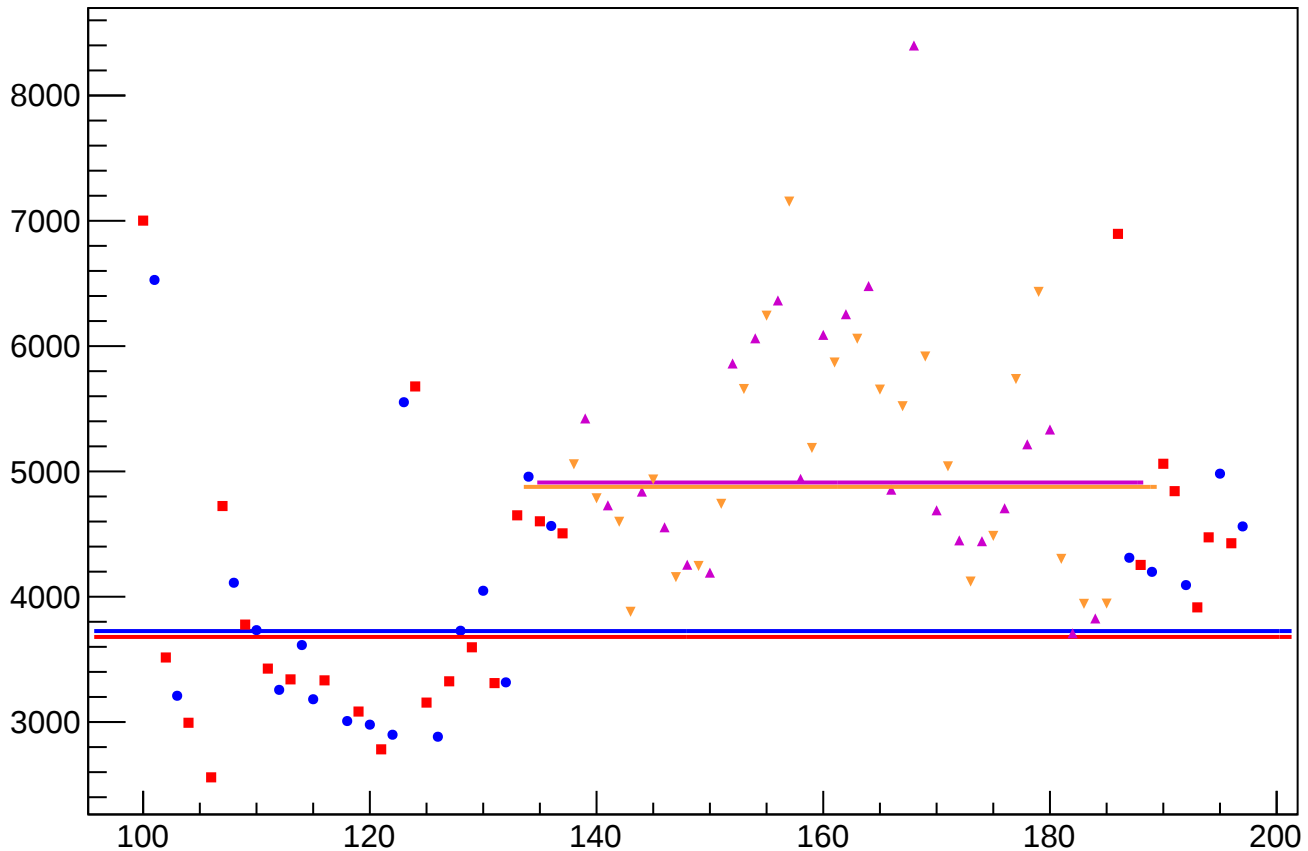
Right: -711.464 ± 834.059 $\chi^2/\text{NDF}: 54.3/47$

In: -226.034 ± 855.820 $\chi^2/\text{NDF}: 33.8/44$

Out: -480.452 ± 811.020 $\chi^2/\text{NDF}: 68.0/50$

All: -360.076 ± 588.679 $\chi^2/\text{NDF}: 101.8/95$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3725.963+/-0.866 χ^2/NDF : 793723.9/21

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3678.990+/-0.797 χ^2/NDF : 892044.6/25

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

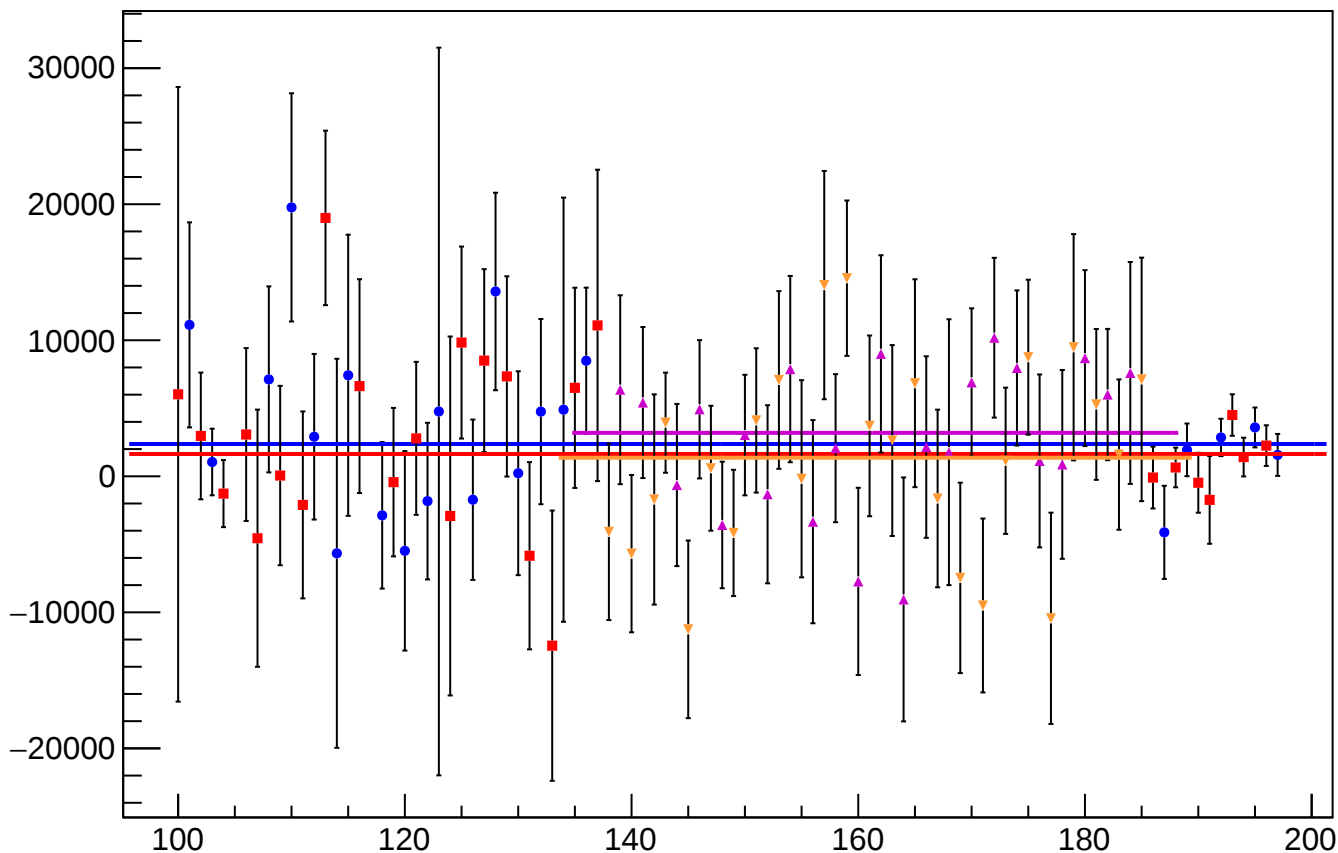
Right: 3700.537+/-0.587 χ^2/NDF : 1687360.0/47

In: 4333.013+/-0.605 χ^2/NDF : 2795891.0/44

Out: 4263.299+/-0.571 χ^2/NDF : 2964848.3/50

All: 4296.114+/-0.415 χ^2/NDF : 5767763.7/95

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2374.042 $\pm$ 667.982 χ^2 /NDF: 18.7/21

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1639.733 $\pm$ 591.185 χ^2 /NDF: 24.5/25

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

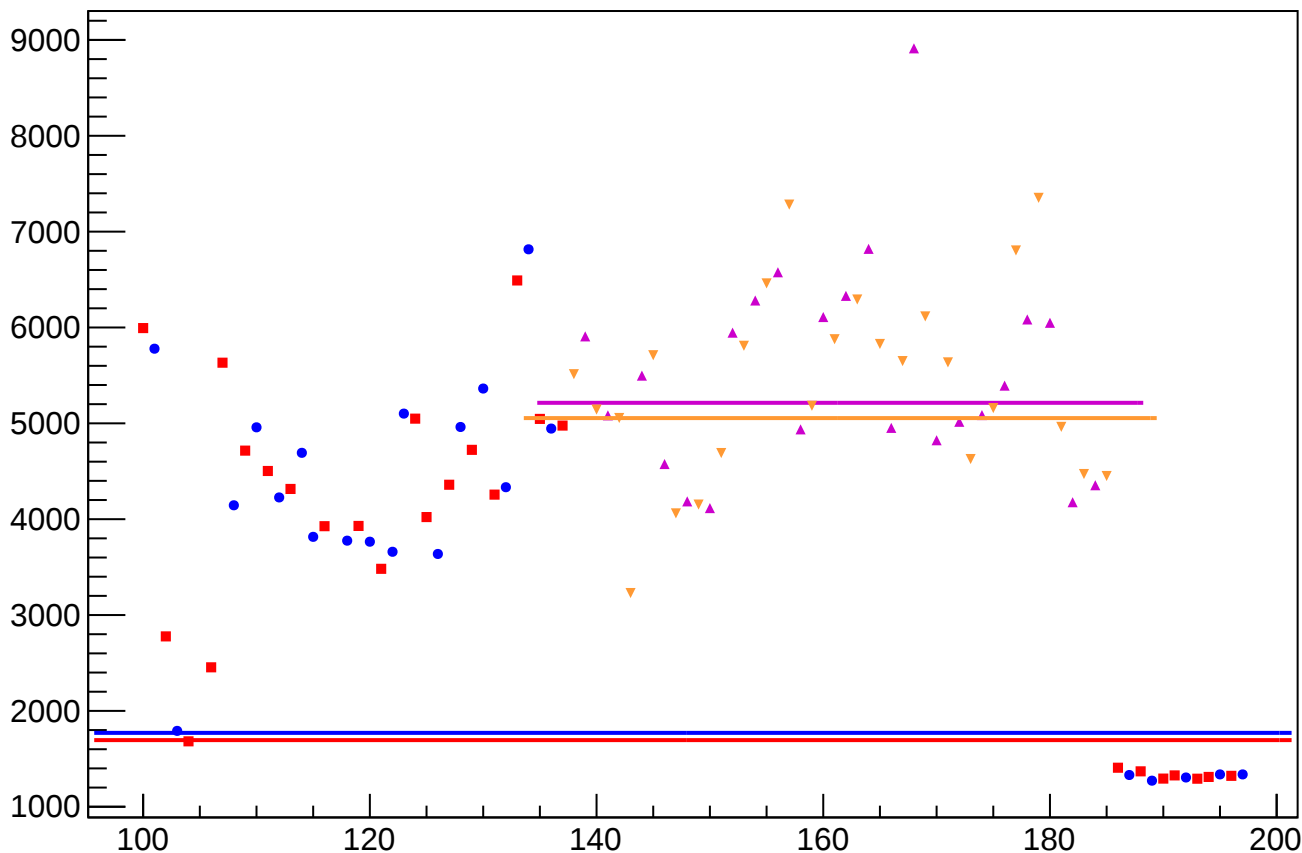
Right: 1962.268 $\pm$ 442.704 χ^2 /NDF: 43.9/47

In: 2551.104 $\pm$ 591.196 χ^2 /NDF:33.1/44

Out: 1586.540 $\pm$ 530.859 χ^2 /NDF:52.5/50

All: 2017.104 $\pm$ 394.988 χ^2 /NDF: 87.0/95

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1770.775+/-0.472 χ^2/NDF : 5221238.9/21

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

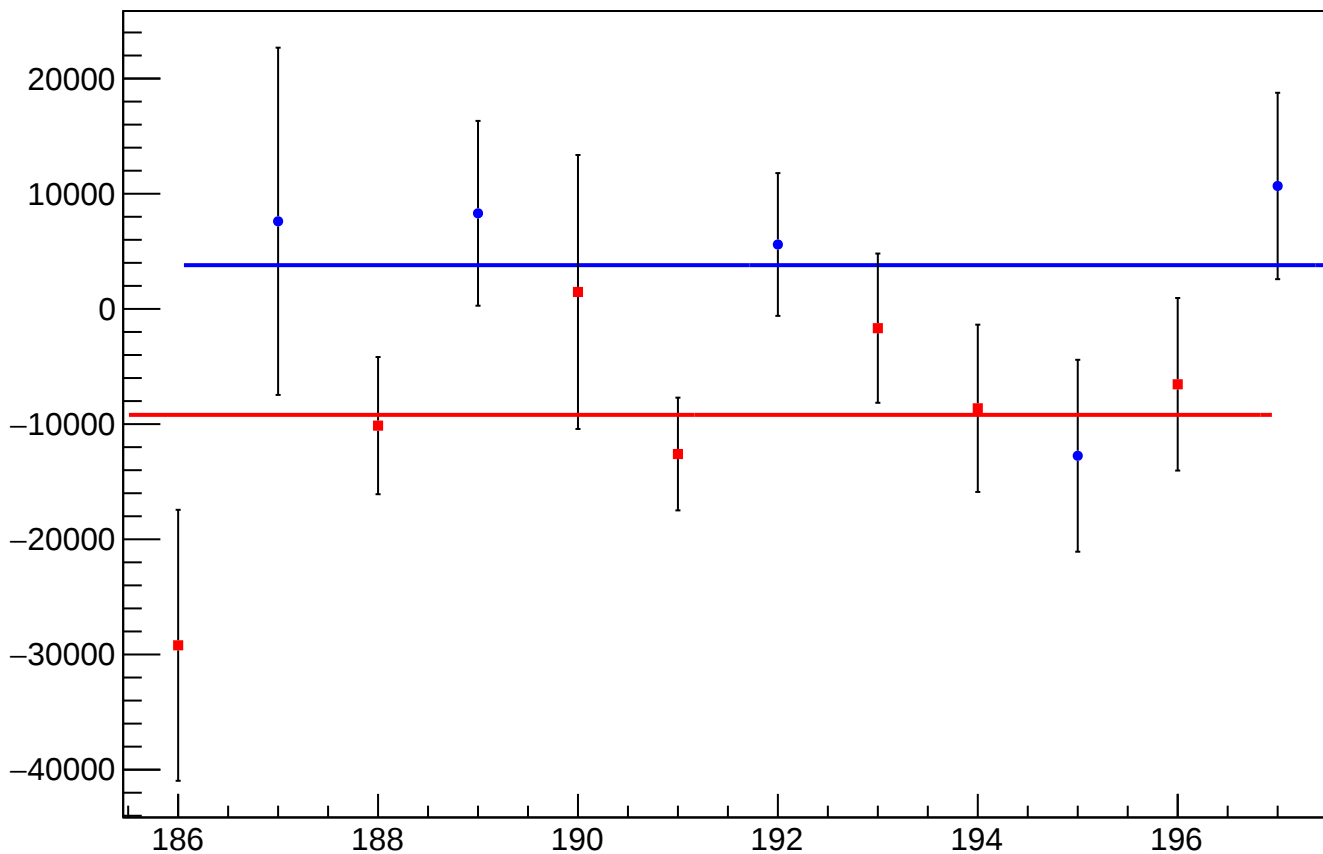
Right: 1728.263+/-0.313 χ^2/NDF : 10544569.2/47

In: 2516.911+/-0.418 χ^2/NDF : 17789778.1/44

Out: 2343.974+/-0.375 χ^2/NDF : 19263765.0/50

All: 2421.053+/-0.279 χ^2/NDF : 37148404.2/95

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 3799.219+/-3635.351 χ^2/NDF : 5.1/4

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

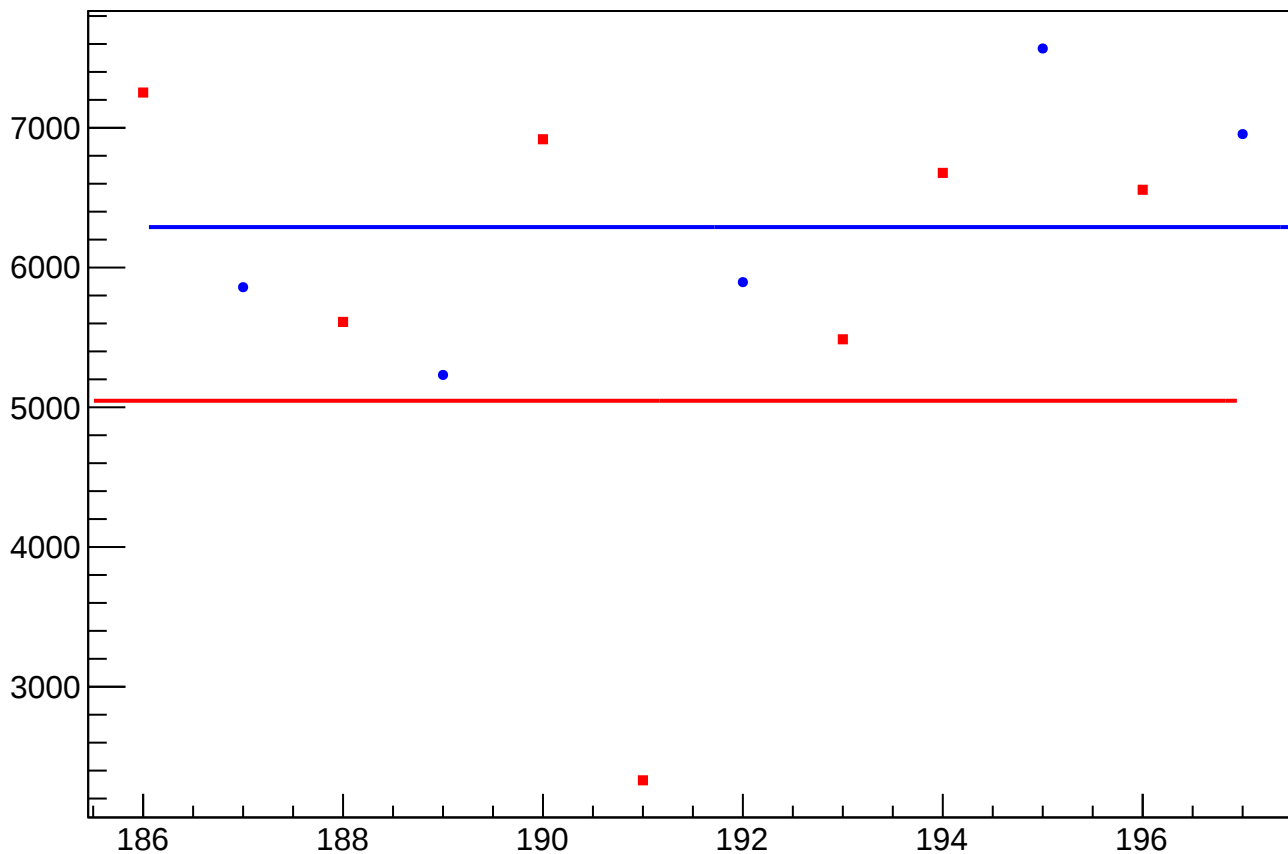
Right: -4737.822+/-2129.387 χ^2/NDF : 19.2/11

In: 3799.219+/-3635.351 χ^2/NDF : 5.1/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -4737.822+/-2129.387 χ^2/NDF : 19.2/11

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6289.592+/-2.571 χ^2/NDF : 105121.3/4

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

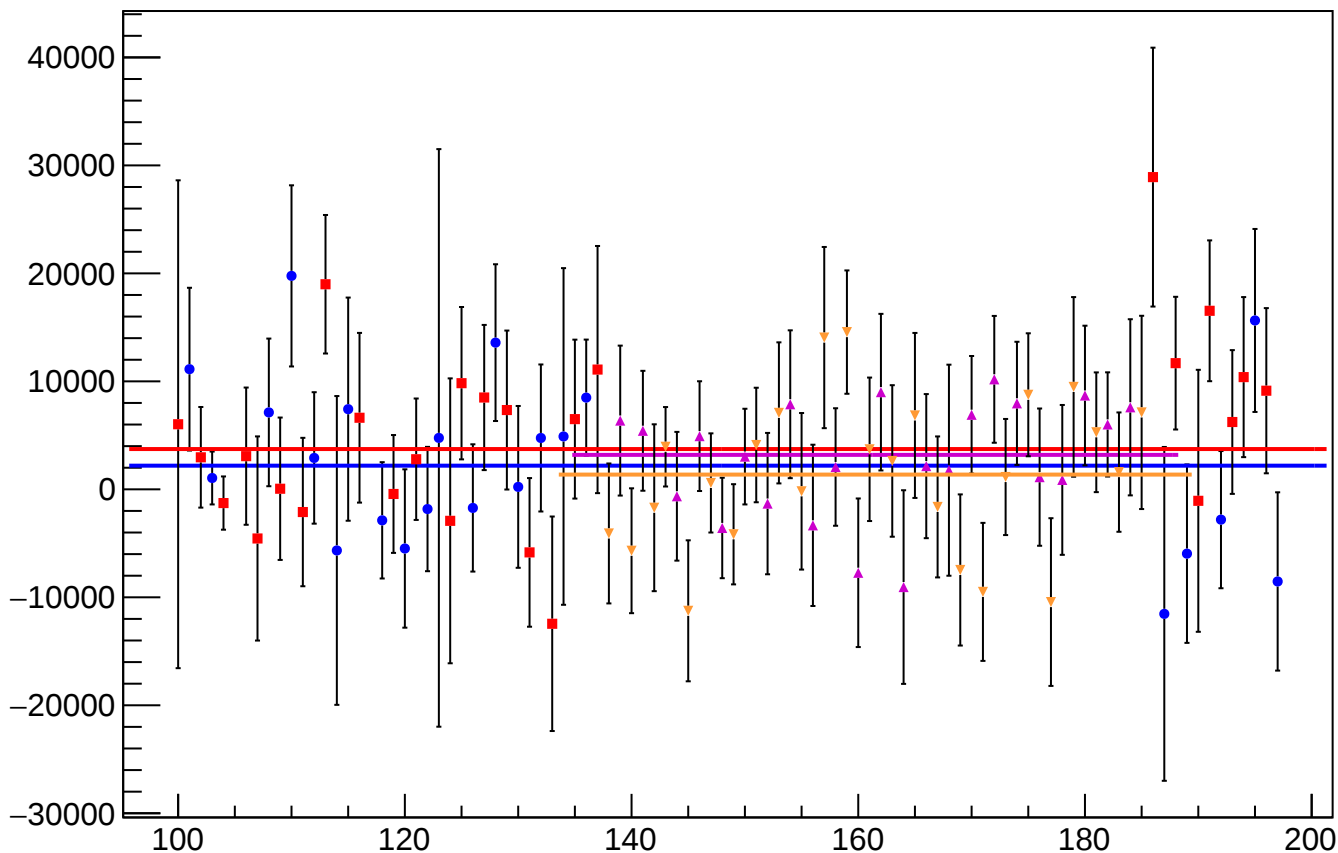
Right: 5473.164+/-1.506 χ^2/NDF : 1203980.1/11

In: 6289.592+/-2.571 χ^2/NDF : 105121.3/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5473.164+/-1.506 χ^2/NDF : 1203980.1/11

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2191.173+/-1355.877 χ^2/NDF : 20.7/21

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

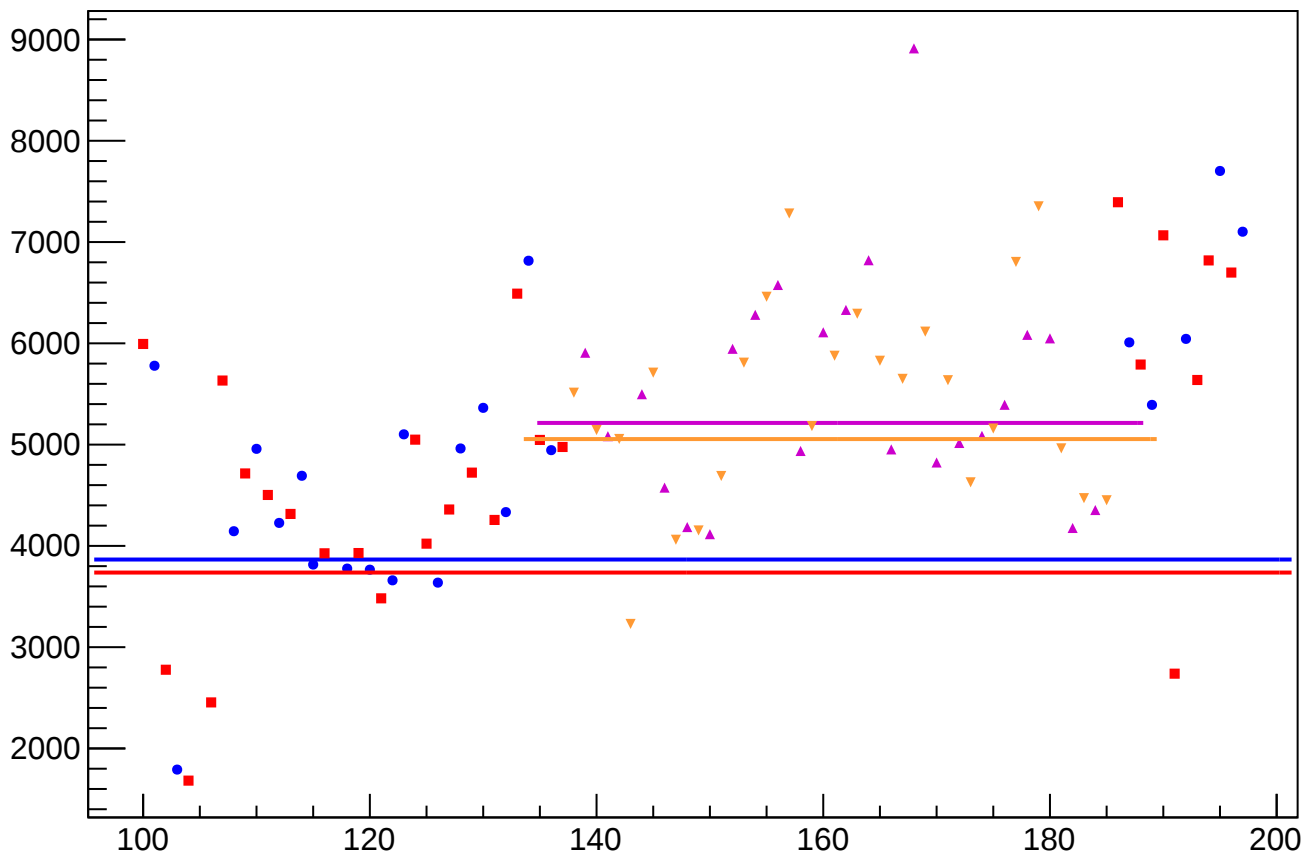
Right: 3025.603+/-917.587 χ^2/NDF : 52.2/47

In: 2723.827+/-926.907 χ^2/NDF : 35.0/44

Out: 2509.223+/-866.786 χ^2/NDF : 60.6/50

All: 2609.340+/-633.099 χ^2/NDF : 95.6/95

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3865.404+/-0.959 χ^2/NDF : 2972284.5/21

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 3736.723+/-0.875 χ^2/NDF : 3524244.8/25

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

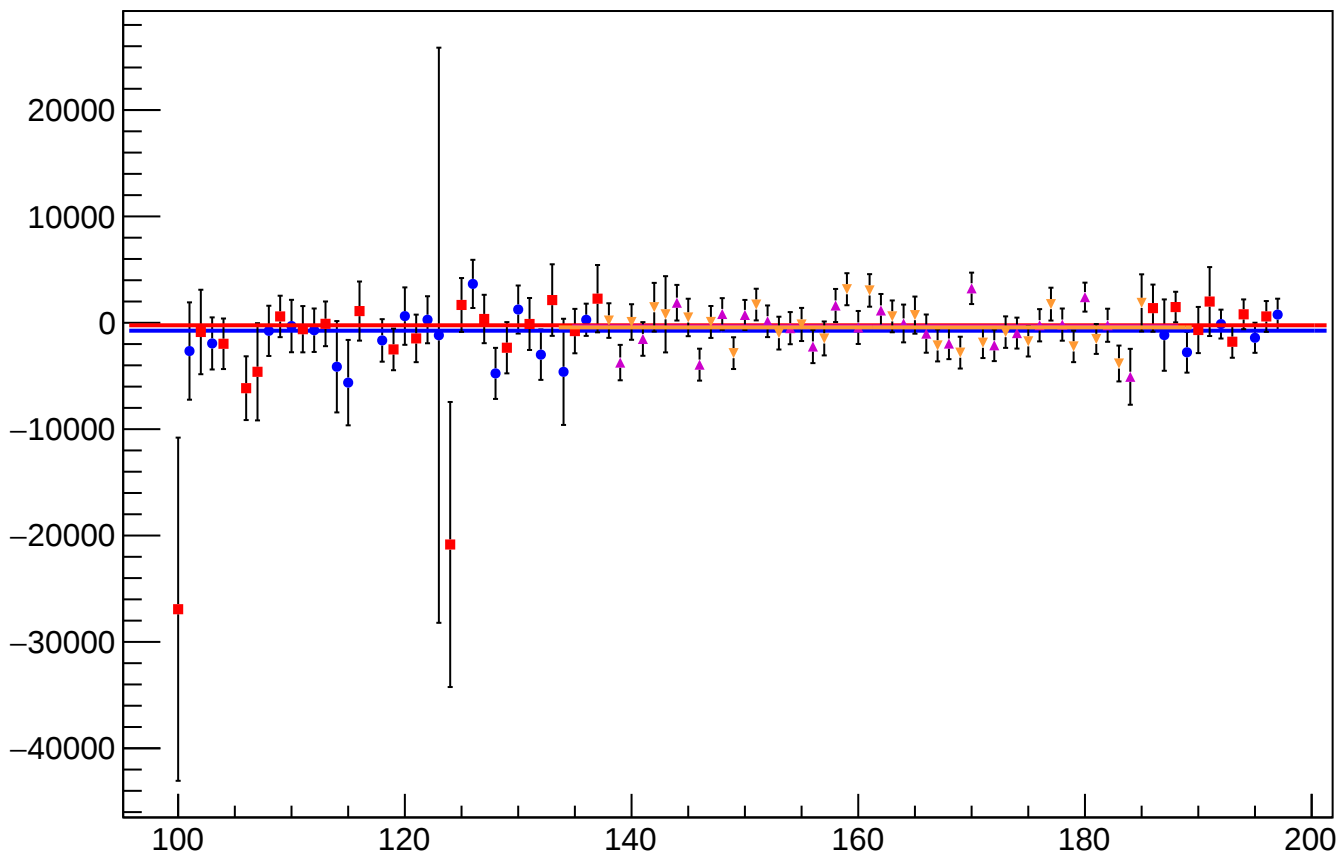
Right: 3795.181+/-0.646 χ^2/NDF : 6506360.4/47

In: 4583.798+/-0.655 χ^2/NDF : 5078908.9/44

Out: 4412.328+/-0.611 χ^2/NDF : 6125190.3/50

All: 4492.013+/-0.447 χ^2/NDF : 11240736.8/95

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -742.939+/-467.402 χ^2/NDF : 15.1/21

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

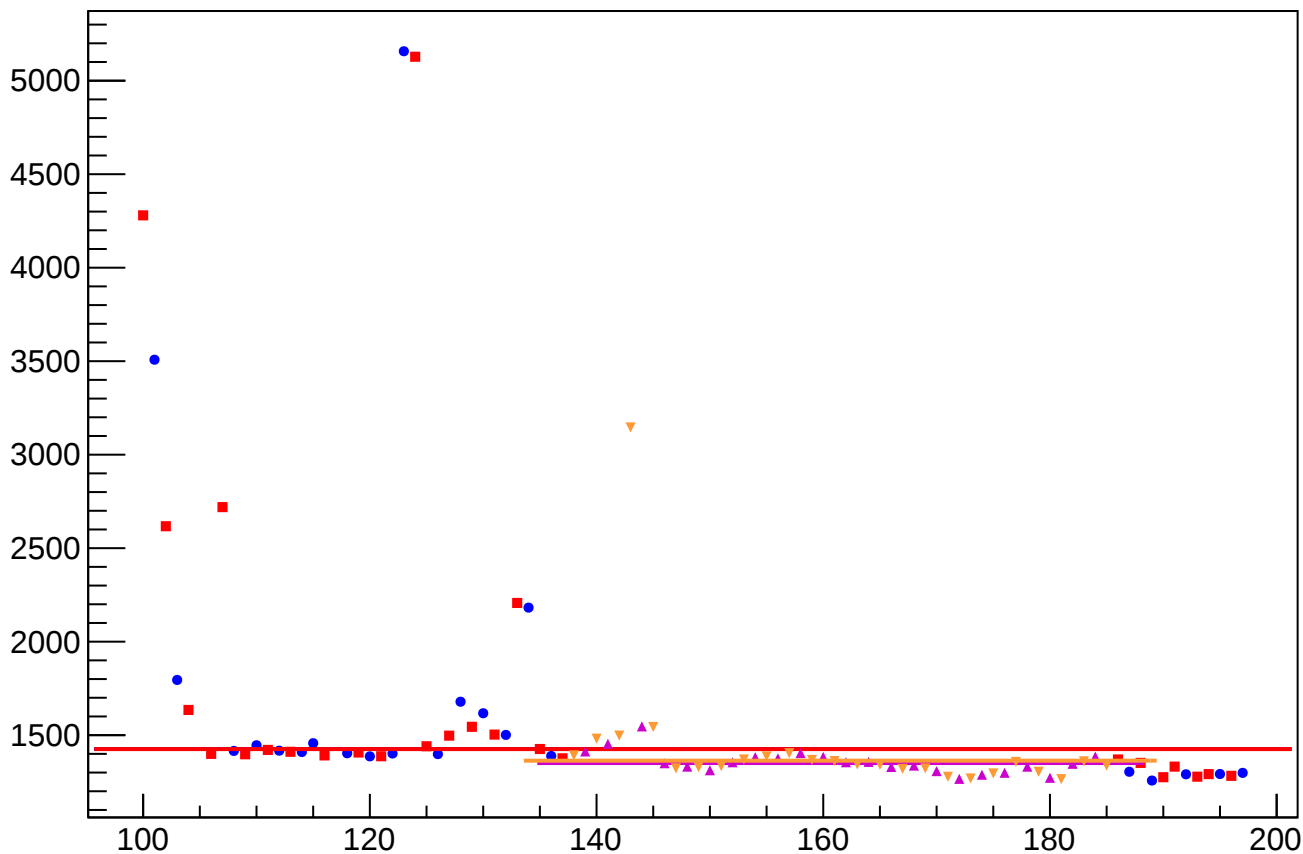
Right: -472.279+/-319.300 χ^2/NDF : 35.3/47

In: -473.501+/-266.484 χ^2/NDF : 49.4/44

Out: -363.101+/-258.511 χ^2/NDF : 52.8/50

All: -416.625+/-185.550 χ^2/NDF : 102.2/95

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1425.978 $\pm$ 0.331 χ^2 /NDF: 655507.4/21

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

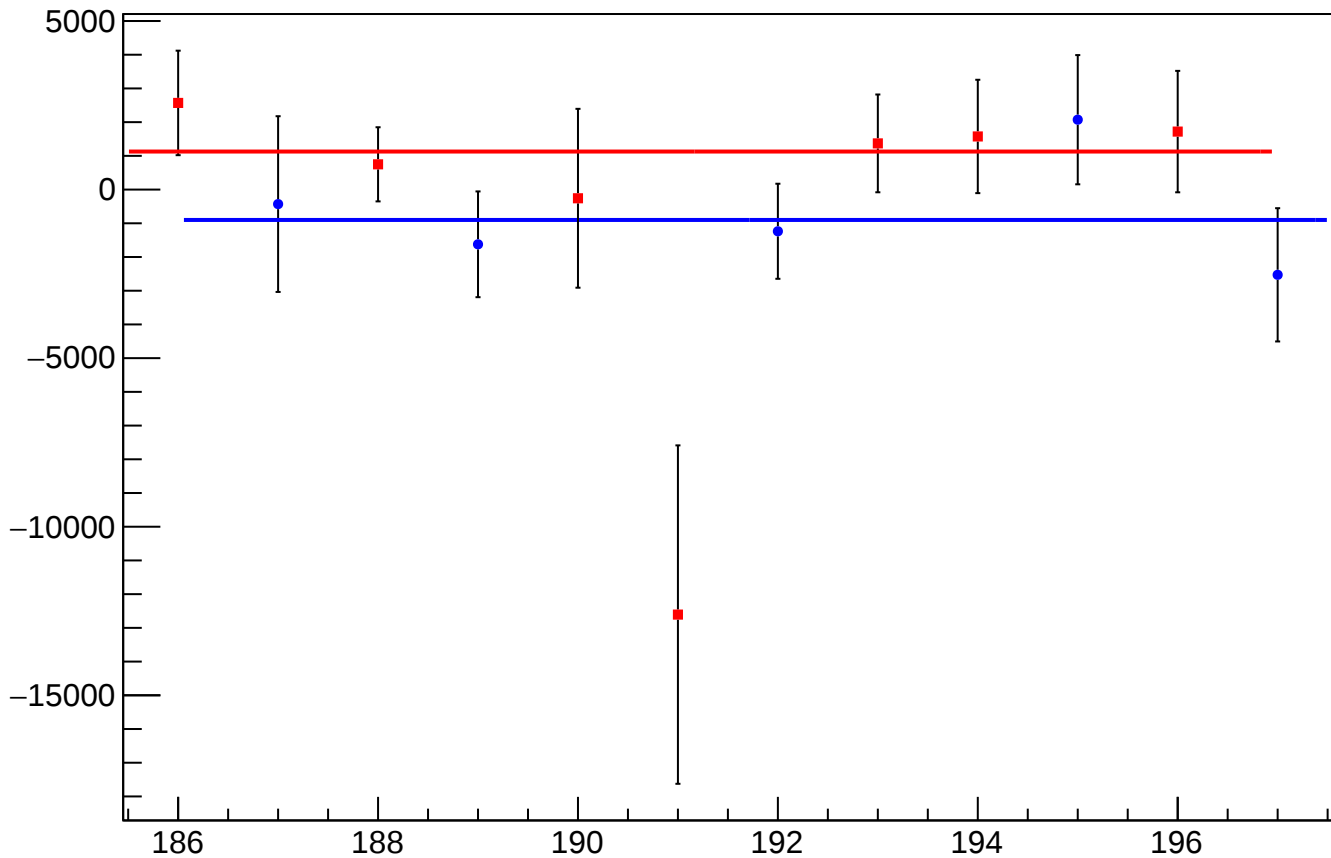
Right: 1425.708 $\pm$ 0.226 χ^2 /NDF: 1420951.3/47

In: 1375.311 $\pm$ 0.188 χ^2 /NDF: 757472.7/44

Out: 1385.204 $\pm$ 0.183 χ^2 /NDF: 1366752.3/50

All: 1380.408 $\pm$ 0.131 χ^2 /NDF: 2125645.2/95

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -901.006+/-794.294 χ^2/NDF : 3.4/4

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

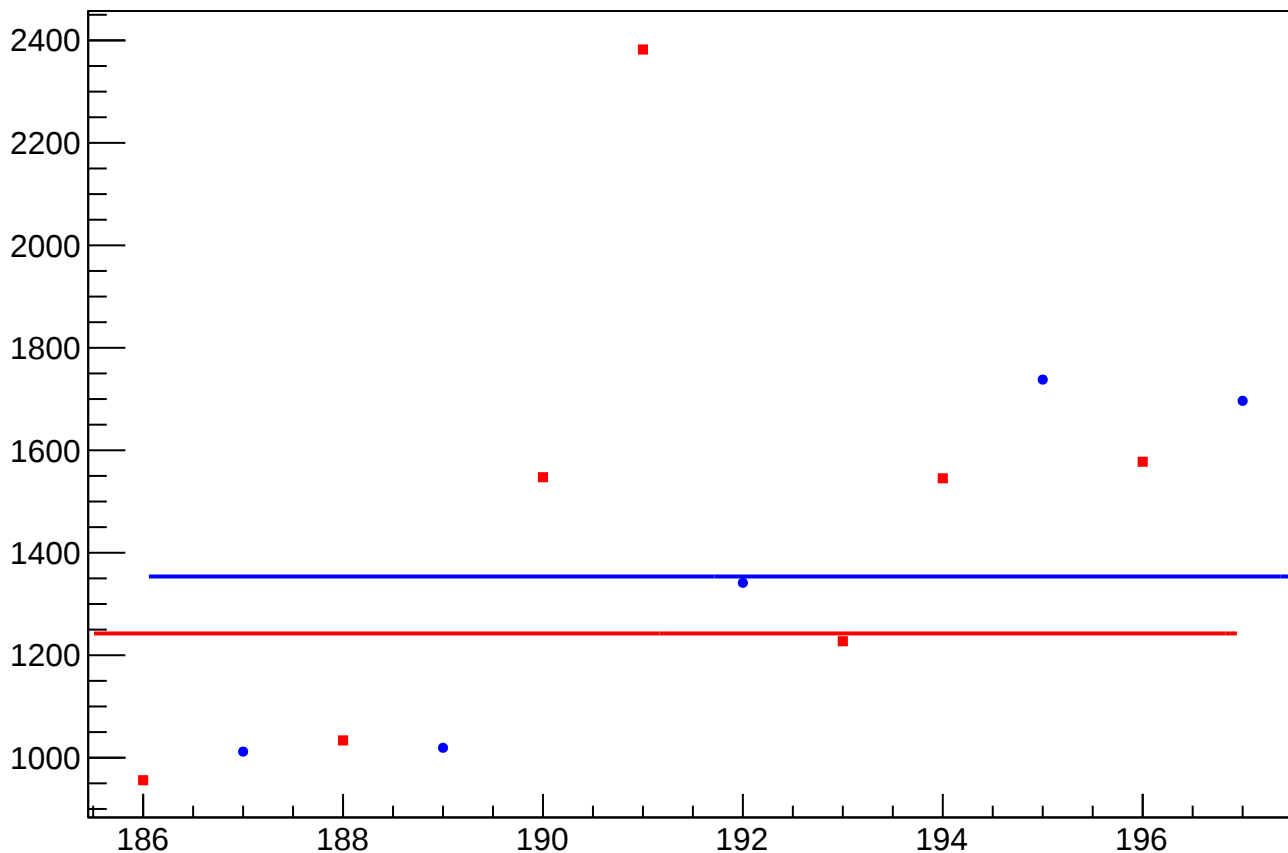
Right: 352.905+/-491.006 χ^2/NDF : 16.4/11

In: -901.006+/-794.294 χ^2/NDF : 3.4/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 352.905+/-491.006 χ^2/NDF : 16.4/11

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1353.703+/-0.562 χ^2/NDF : 266008.2/4

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1242.503+/-0.442 χ^2/NDF : 404353.1/6

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

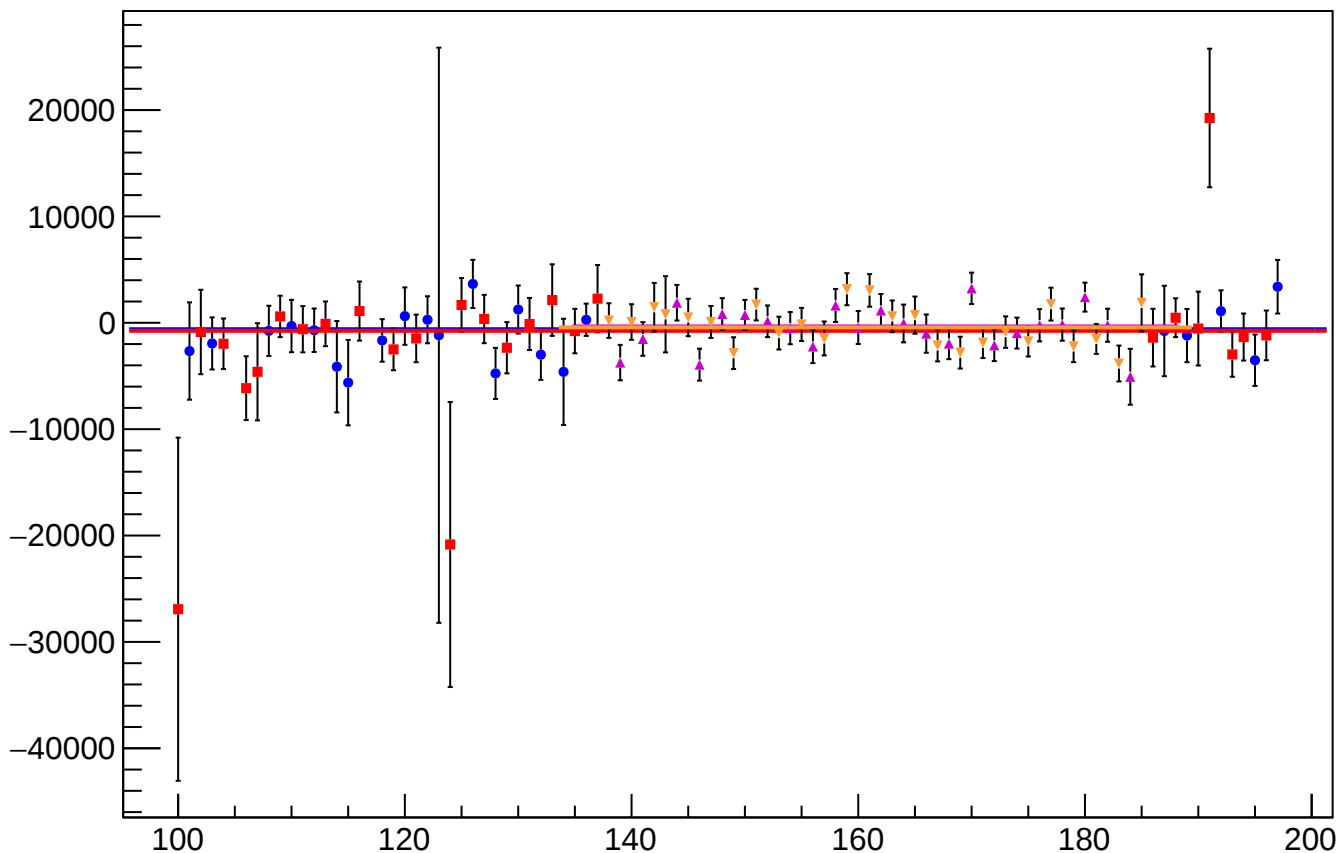
Right: 1284.996+/-0.347 χ^2/NDF : 694581.5/11

In: 1353.703+/-0.562 χ^2/NDF : 266008.2/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1284.996+/-0.347 χ^2/NDF : 694581.5/11

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -603.974+/-532.214 χ^2/NDF : 17.4/21

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

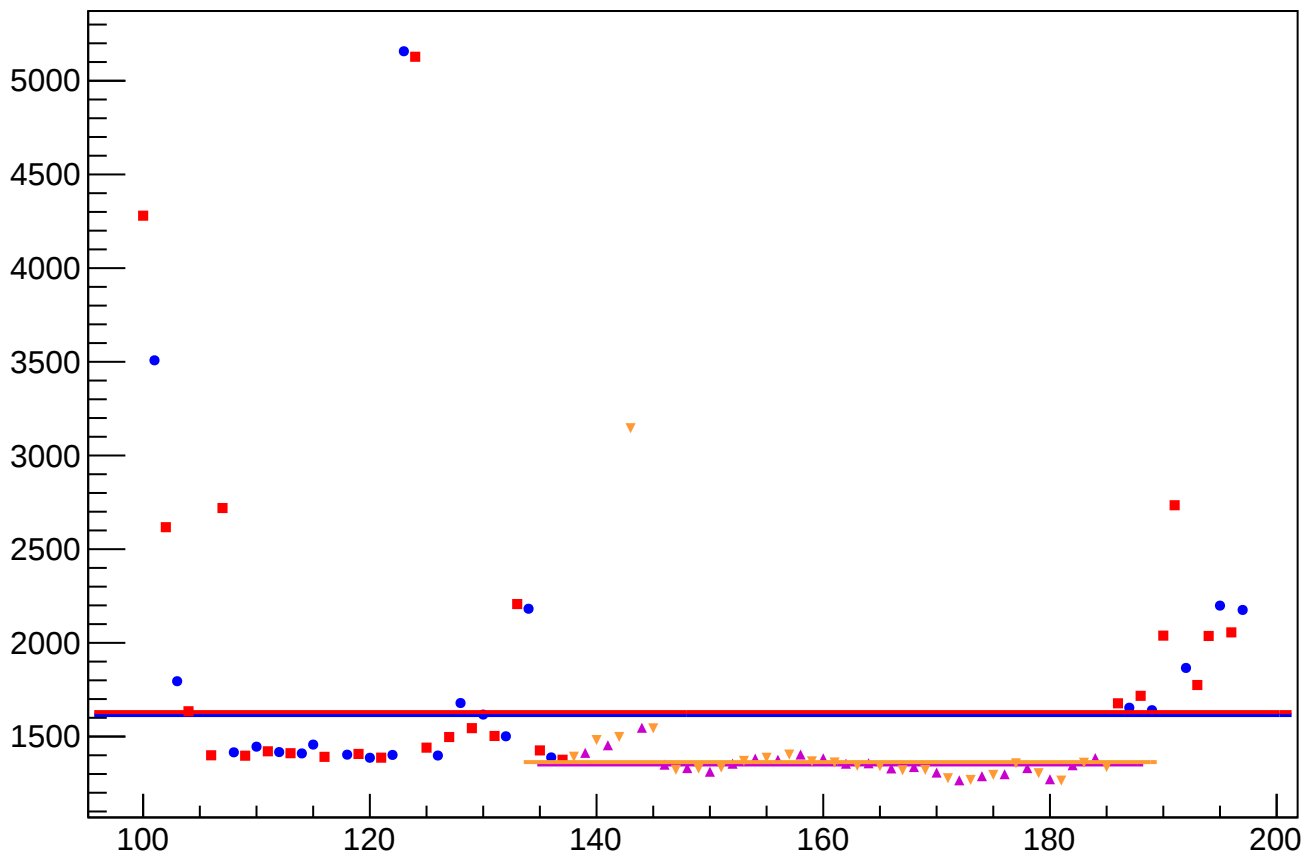
Right: -683.042+/-365.195 χ^2/NDF : 43.0/47

In: -414.221+/-276.980 χ^2/NDF : 51.3/44

Out: -524.874+/-270.168 χ^2/NDF : 58.9/50

All: -470.925+/-193.401 χ^2/NDF : 110.3/95

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1614.639+/-0.376 χ^2/NDF : 836935.1/21

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

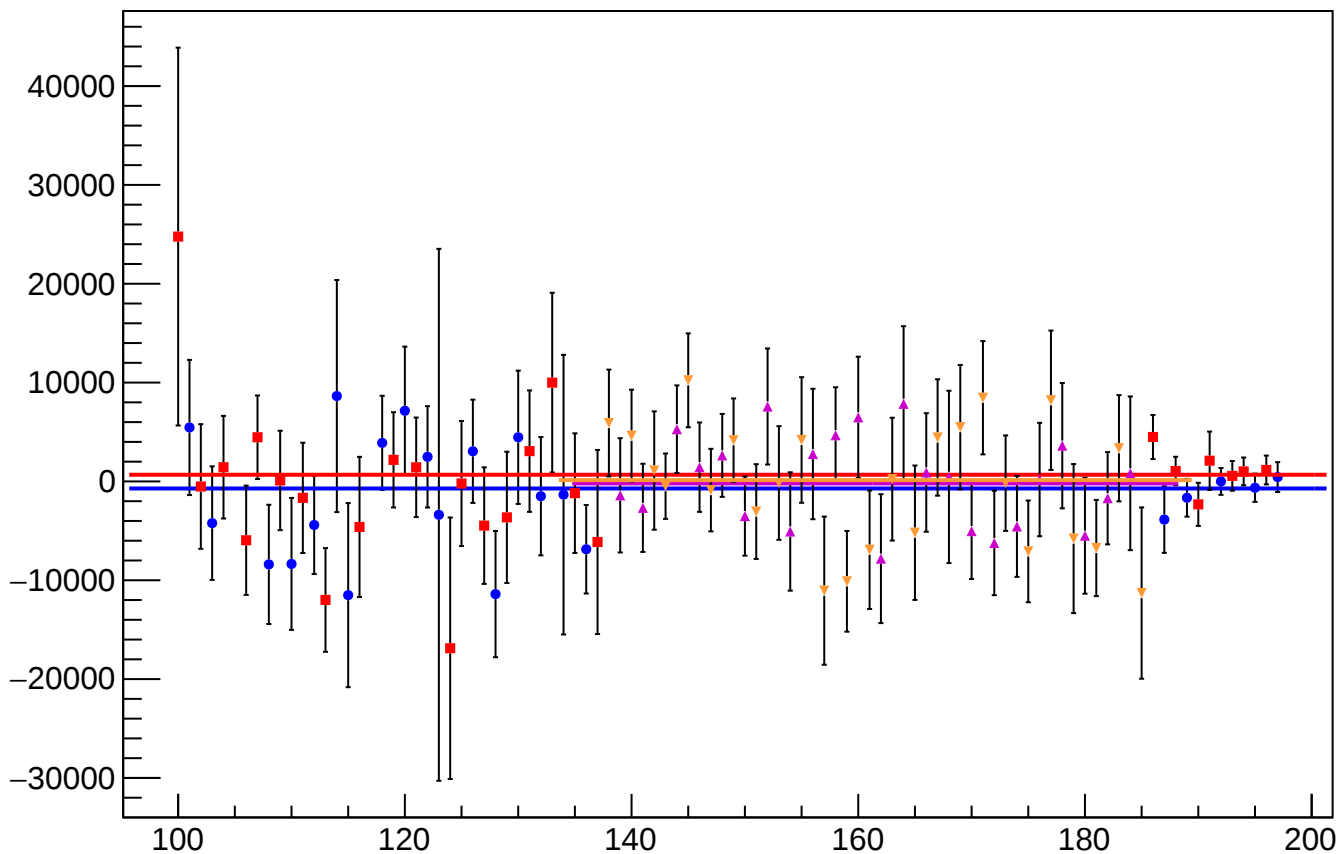
Right: 1622.992+/-0.258 χ^2/NDF : 1761199.1/47

In: 1422.340+/-0.196 χ^2/NDF : 1262173.3/44

Out: 1440.846+/-0.191 χ^2/NDF : 1900023.9/50

All: 1431.823+/-0.137 χ^2/NDF : 3166772.5/95

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -714.409+/-664.213 χ^2/NDF : 17.2/21

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

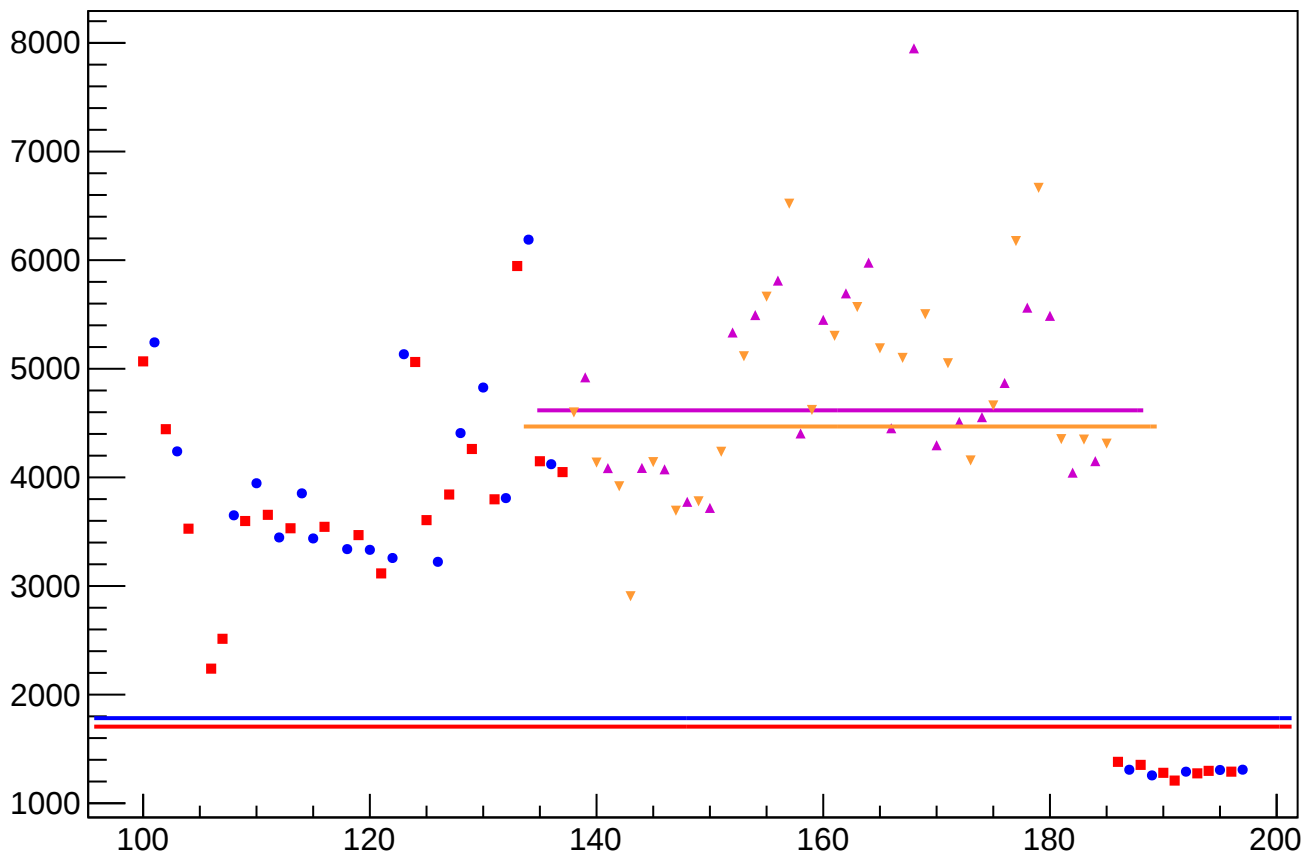
Right: 71.438+/-437.829 χ^2/NDF : 40.4/47

In: -581.227+/-571.766 χ^2/NDF : 32.1/44

Out: 550.381+/-510.927 χ^2/NDF : 49.0/50

All: 47.965+/-380.980 χ^2/NDF : 83.3/95

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1783.490+/-0.470 χ^2/NDF : 4893612.8/21

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

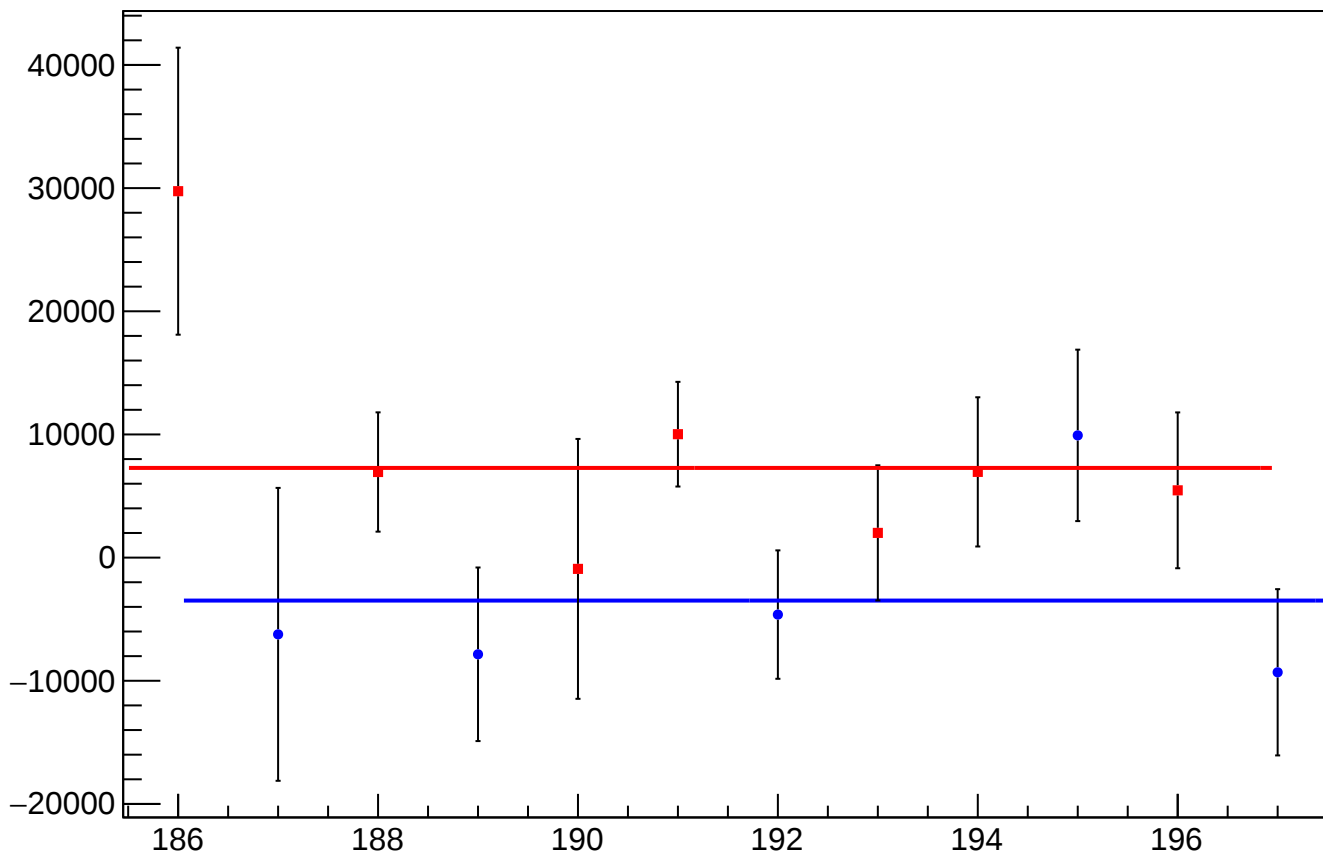
Right: 1739.246+/-0.309 χ^2/NDF : 9797585.5/47

In: 2517.424+/-0.404 χ^2/NDF : 15321790.6/44

Out: 2339.061+/-0.361 χ^2/NDF : 16633758.3/50

All: 2418.140+/-0.269 χ^2/NDF : 32063886.2/95

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -3487.993+/-3062.782 χ^2/NDF : 4.9/4

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

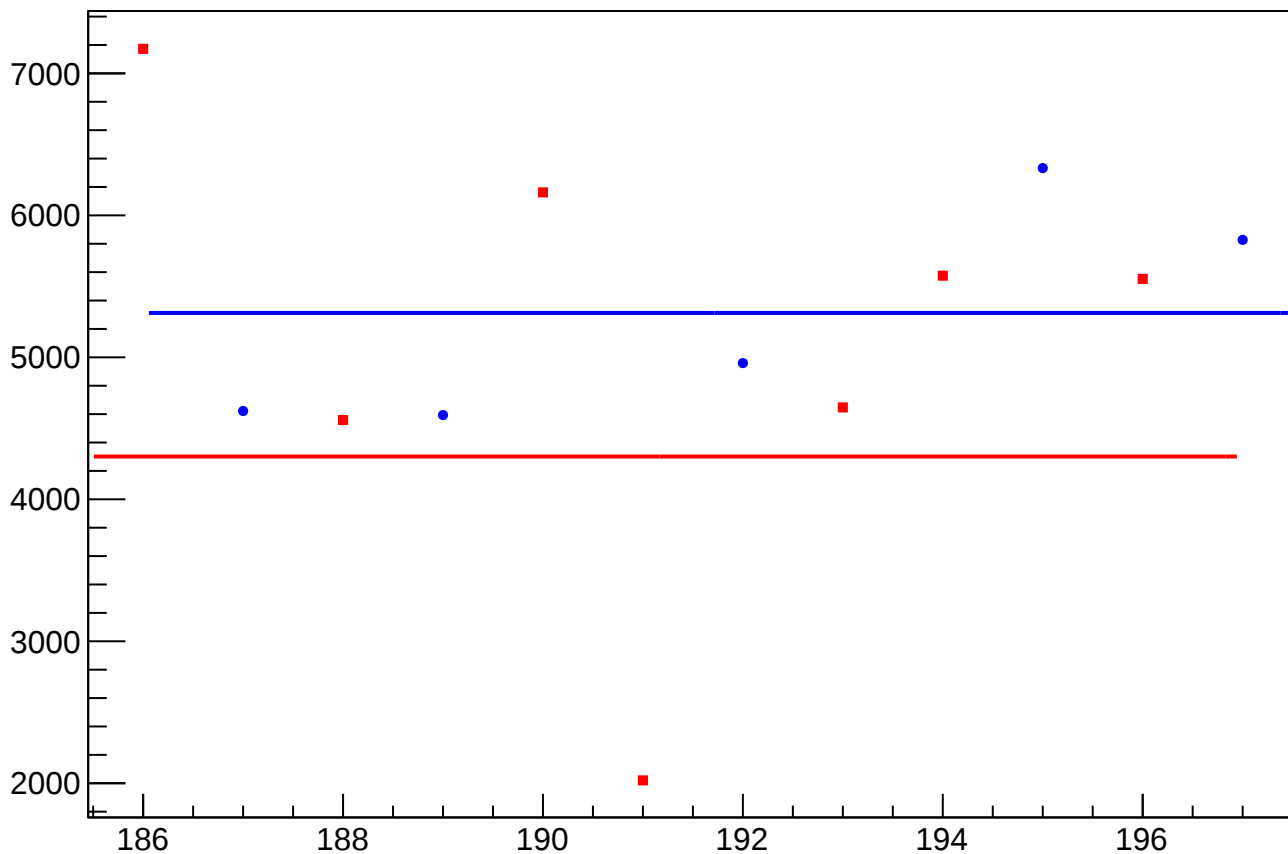
Right: 3534.912+/-1806.540 χ^2/NDF : 18.8/11

In: -3487.993+/-3062.782 χ^2/NDF : 4.9/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 3534.912+/-1806.540 χ^2/NDF : 18.8/11

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5312.628+/-2.166 χ^2/NDF : 91364.8/4

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

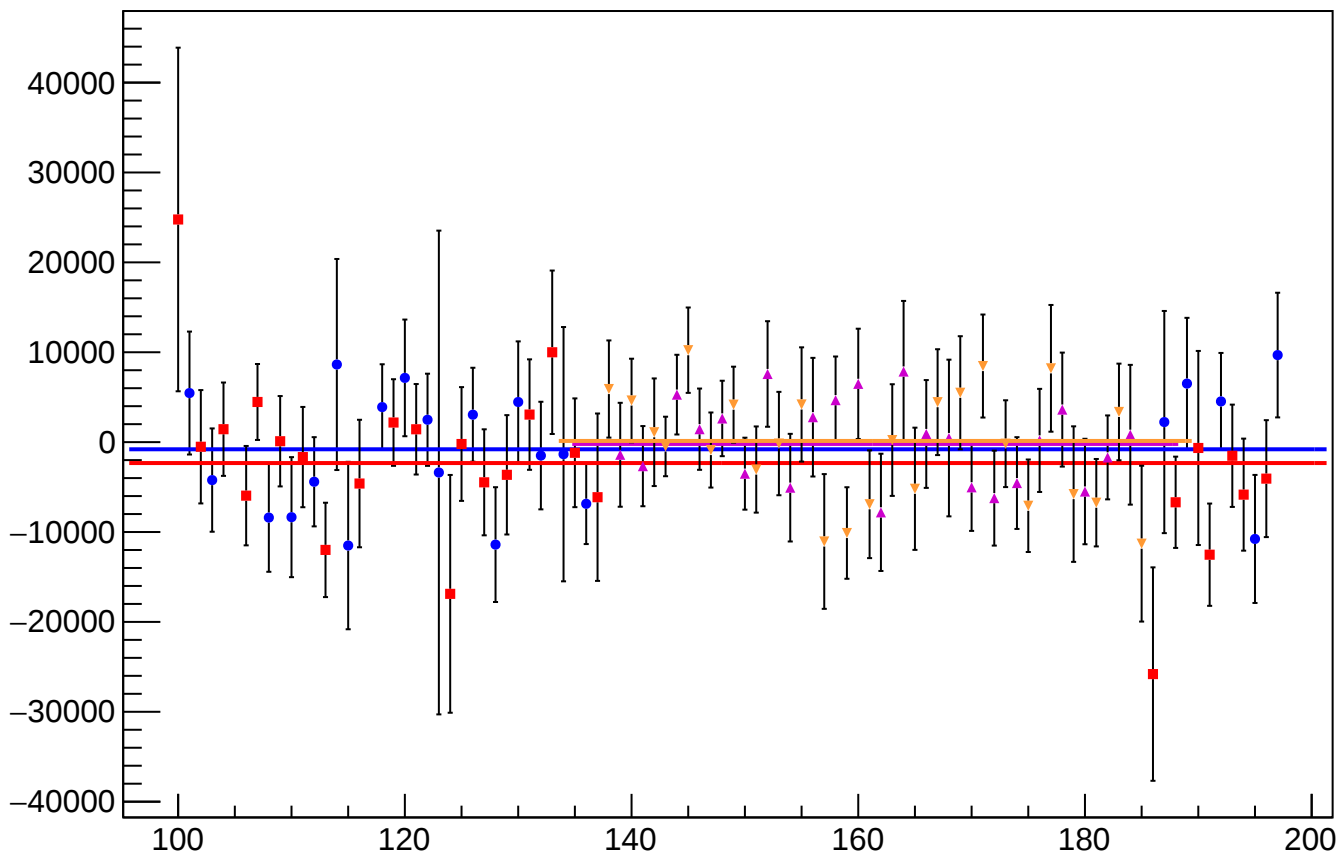
Right: 4653.205+/-1.277 χ^2/NDF : 1173640.0/11

In: 5312.628+/-2.166 χ^2/NDF : 91364.8/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4653.205+/-1.277 χ^2/NDF : 1173640.0/11

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -795.749 ± 1368.105 $\chi^2/\text{NDF}: 21.5/21$

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 $\chi^2/\text{NDF}: 42.9/47$

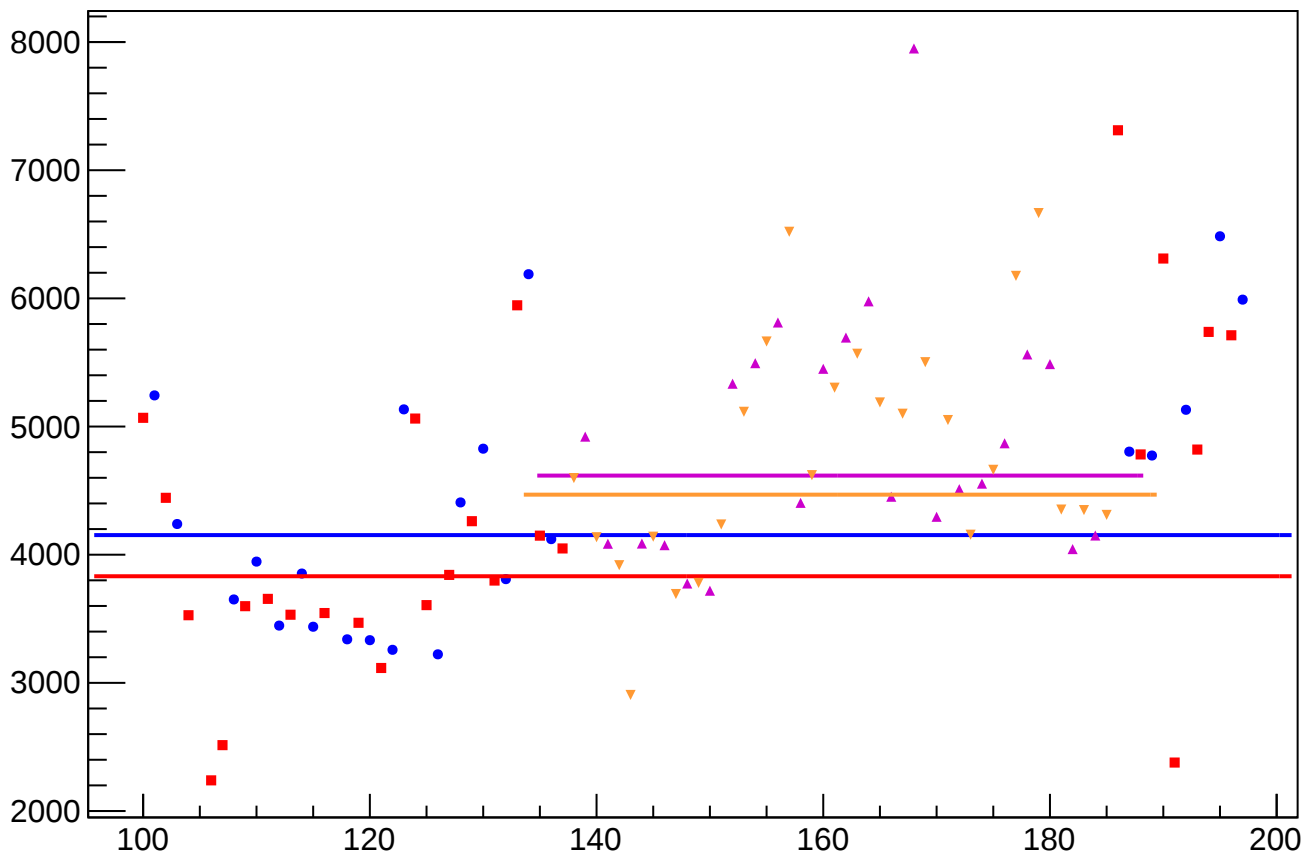
Right: -1658.185 ± 904.033 $\chi^2/\text{NDF}: 45.6/47$

In: -440.056 ± 868.251 $\chi^2/\text{NDF}: 36.3/44$

Out: -947.339 ± 798.070 $\chi^2/\text{NDF}: 53.9/50$

All: -715.025 ± 587.567 $\chi^2/\text{NDF}: 90.4/95$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4152.999 $\pm$ 0.967 χ^2 /NDF: 849601.2/21

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

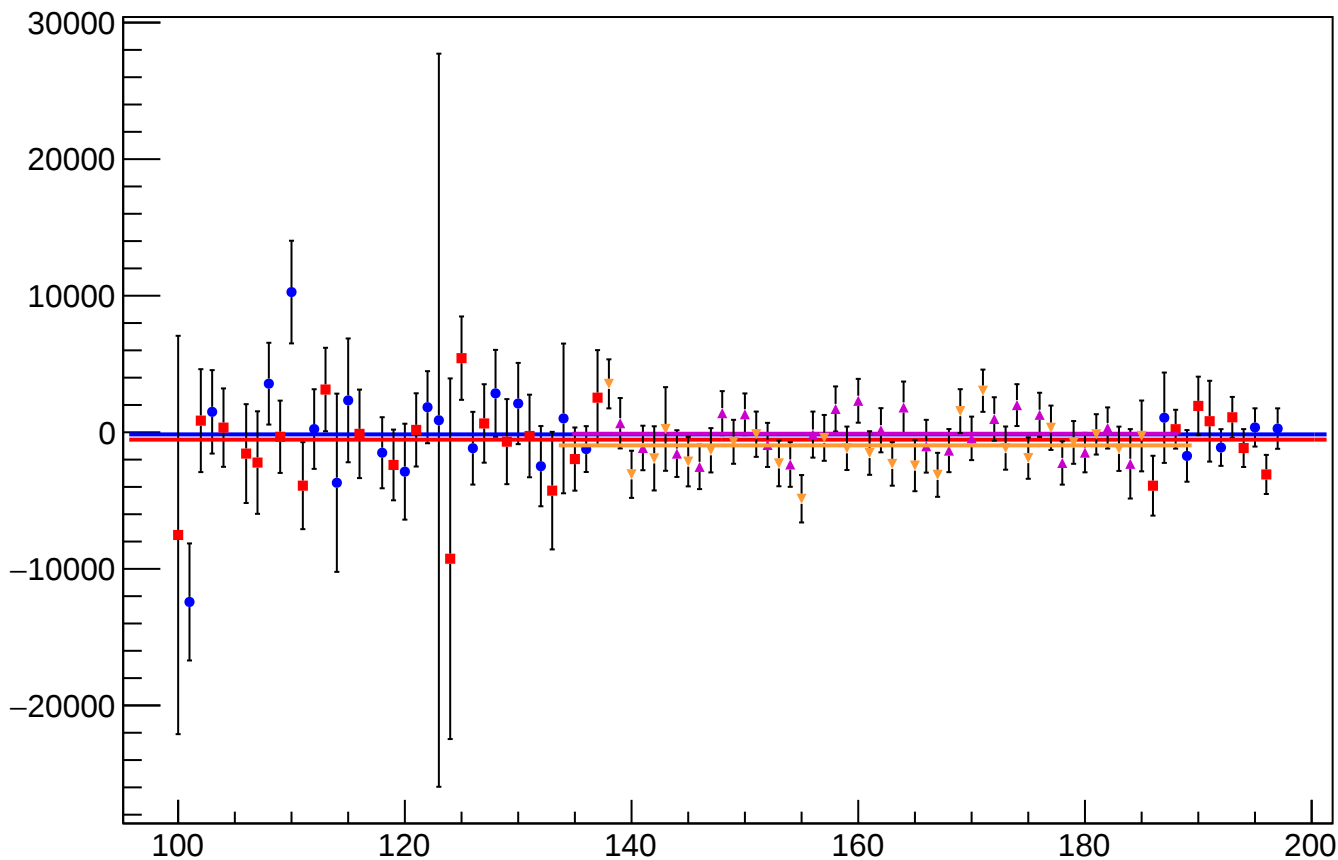
Right: 3970.998 $\pm$ 0.637 χ^2 /NDF: 2459247.1/47

In: 4430.287 $\pm$ 0.614 χ^2 /NDF: 1986774.4/44

Out: 4186.825 $\pm$ 0.563 χ^2 /NDF: 3243701.2/50

All: 4297.949 $\pm$ 0.415 χ^2 /NDF: 5315954.4/95

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -153.477 ± 523.080 $\chi^2/\text{NDF}: 24.0/21$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -537.504 ± 480.165 $\chi^2/\text{NDF}: 19.0/25$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

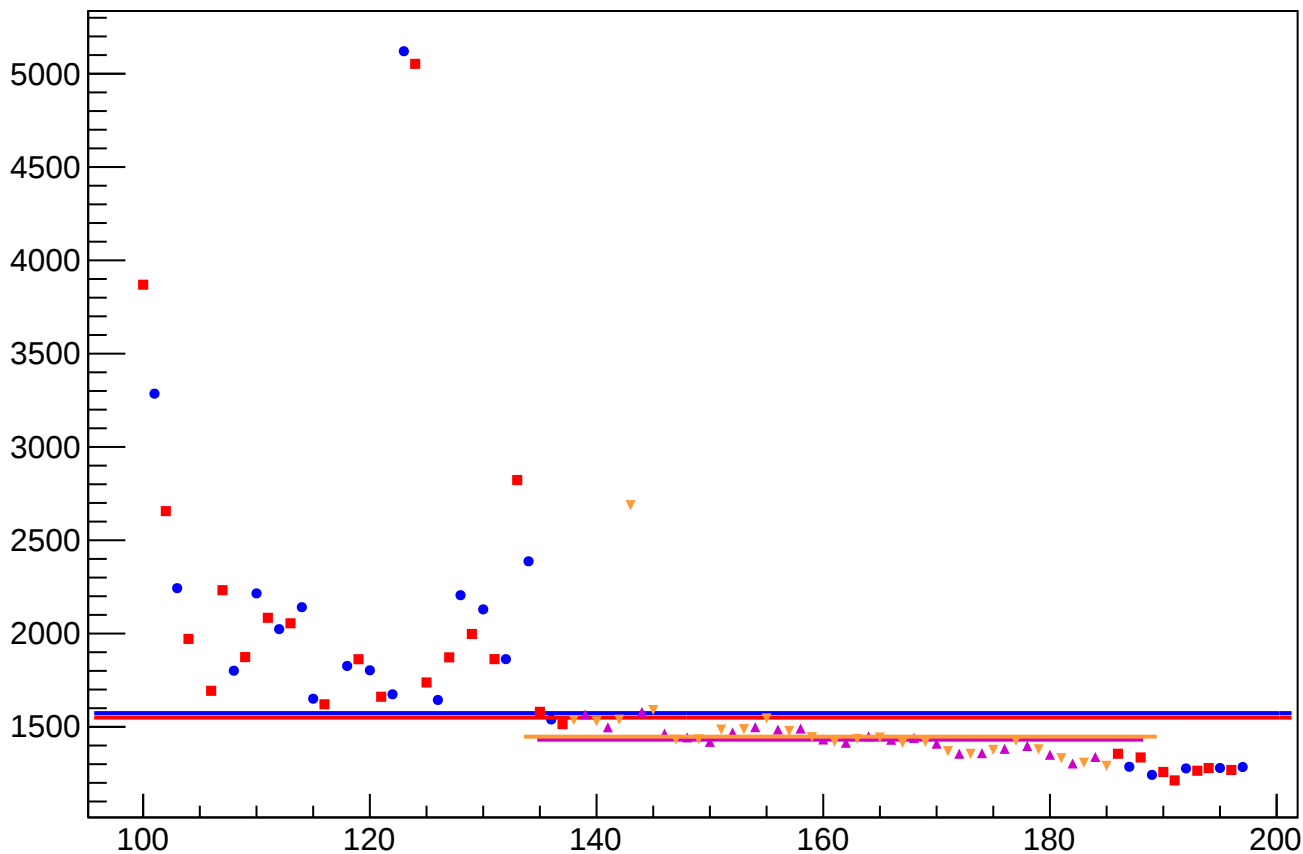
Right: -361.888 ± 353.728 $\chi^2/\text{NDF}: 43.3/47$

In: -121.371 ± 287.220 $\chi^2/\text{NDF}: 43.5/44$

Out: -818.126 ± 277.206 $\chi^2/\text{NDF}: 48.0/50$

All: -482.106 ± 199.461 $\chi^2/\text{NDF}: 94.6/95$

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1573.752 $\pm$ 0.370 χ^2 /NDF: 1165973.4/21

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1549.652 $\pm$ 0.340 χ^2 /NDF: 1271568.8/25

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

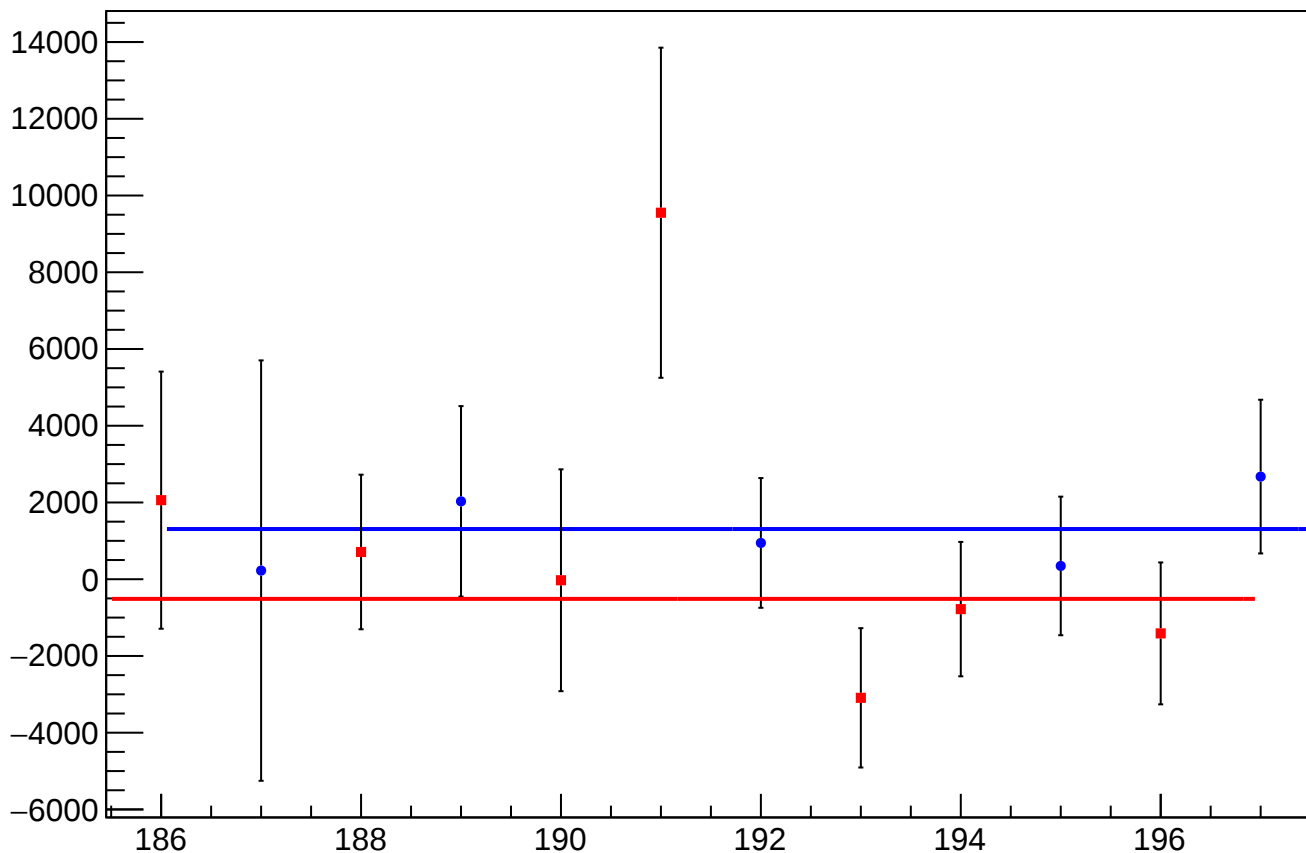
Right: 1560.673 $\pm$ 0.250 χ^2 /NDF: 2439846.1/47

In: 1474.359 $\pm$ 0.203 χ^2 /NDF: 1344485.9/44

Out: 1481.583 $\pm$ 0.196 χ^2 /NDF: 1751110.3/50

All: 1478.099 $\pm$ 0.141 χ^2 /NDF: 3096251.4/95

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1307.982+/-952.831 χ^2/NDF : 0.9/4

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

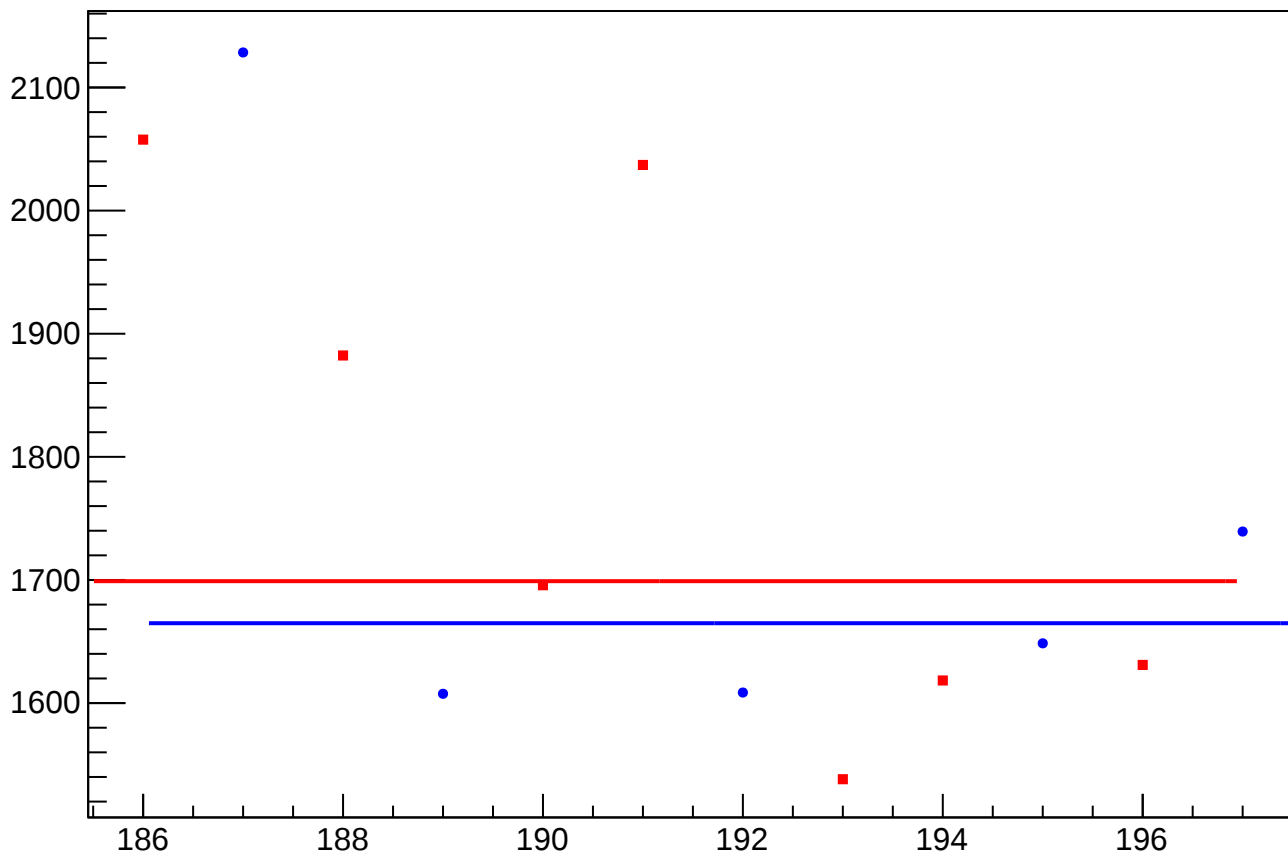
Right: 279.396+/-628.383 χ^2/NDF : 11.7/11

In: 1307.982+/-952.831 χ^2/NDF : 0.9/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 279.396+/-628.383 χ^2/NDF : 11.7/11

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1664.877+/-0.674 χ^2/NDF : 20533.1/4

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

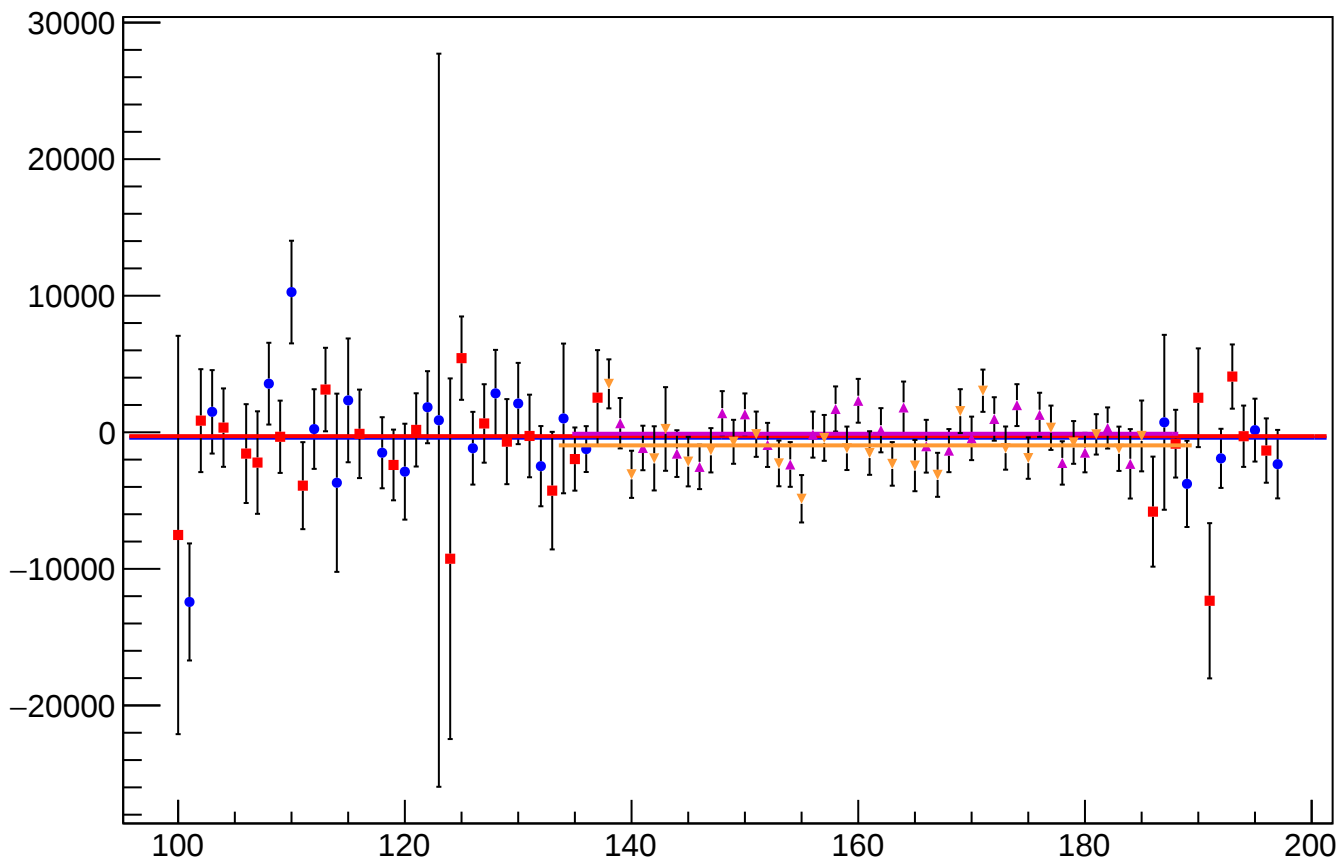
Right: 1684.175+/-0.444 χ^2/NDF : 96448.4/11

In: 1664.877+/-0.674 χ^2/NDF : 20533.1/4

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1684.175+/-0.444 χ^2/NDF : 96448.4/11

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -396.451 ± 638.852 χ^2/NDF : 25.1/21

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

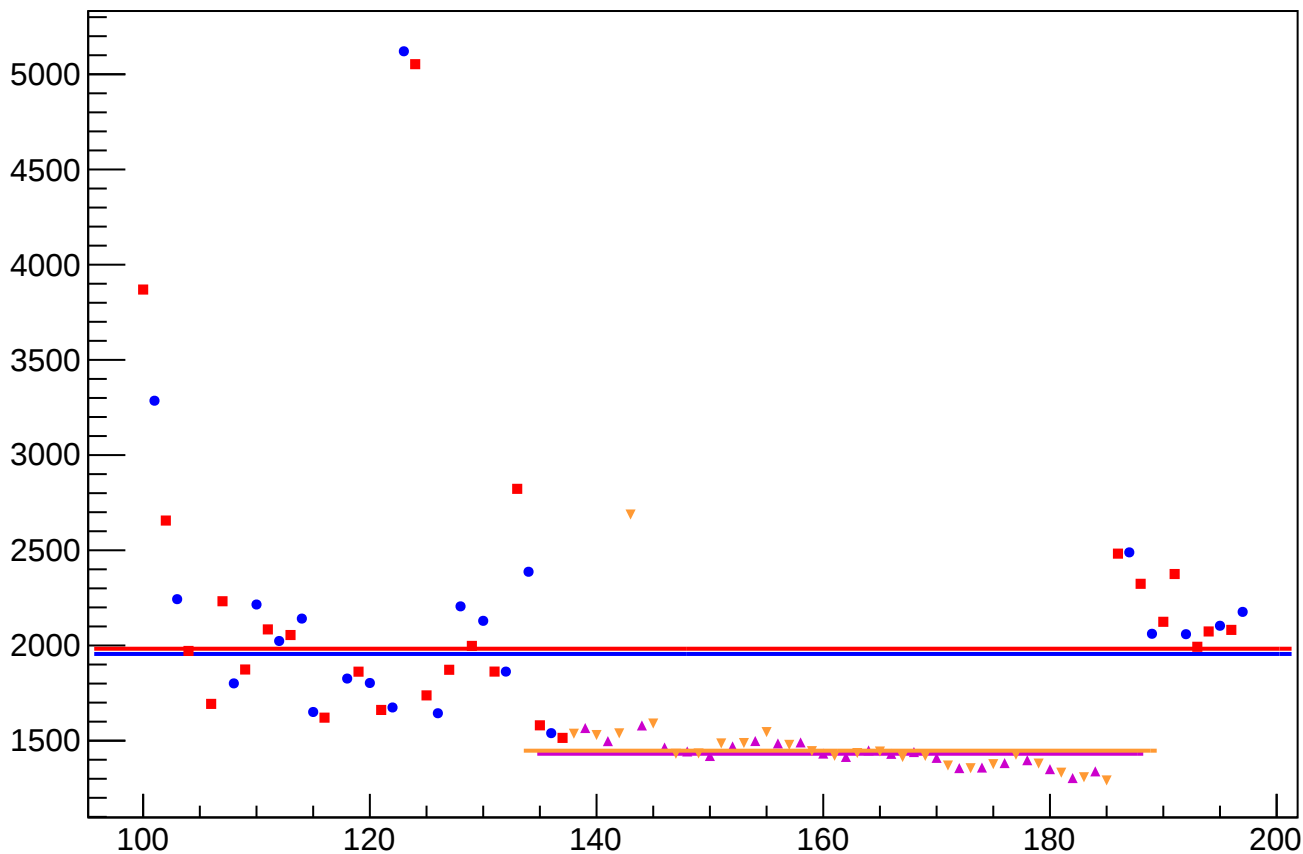
Right: -336.434 ± 439.080 χ^2/NDF : 45.9/47

In: -172.359 ± 302.651 χ^2/NDF : 44.7/44

Out: -796.378 ± 296.006 χ^2/NDF : 50.3/50

All: -491.295 ± 211.618 χ^2/NDF : 97.2/95

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1955.522+/-0.452 χ^2/NDF : 524450.4/21

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

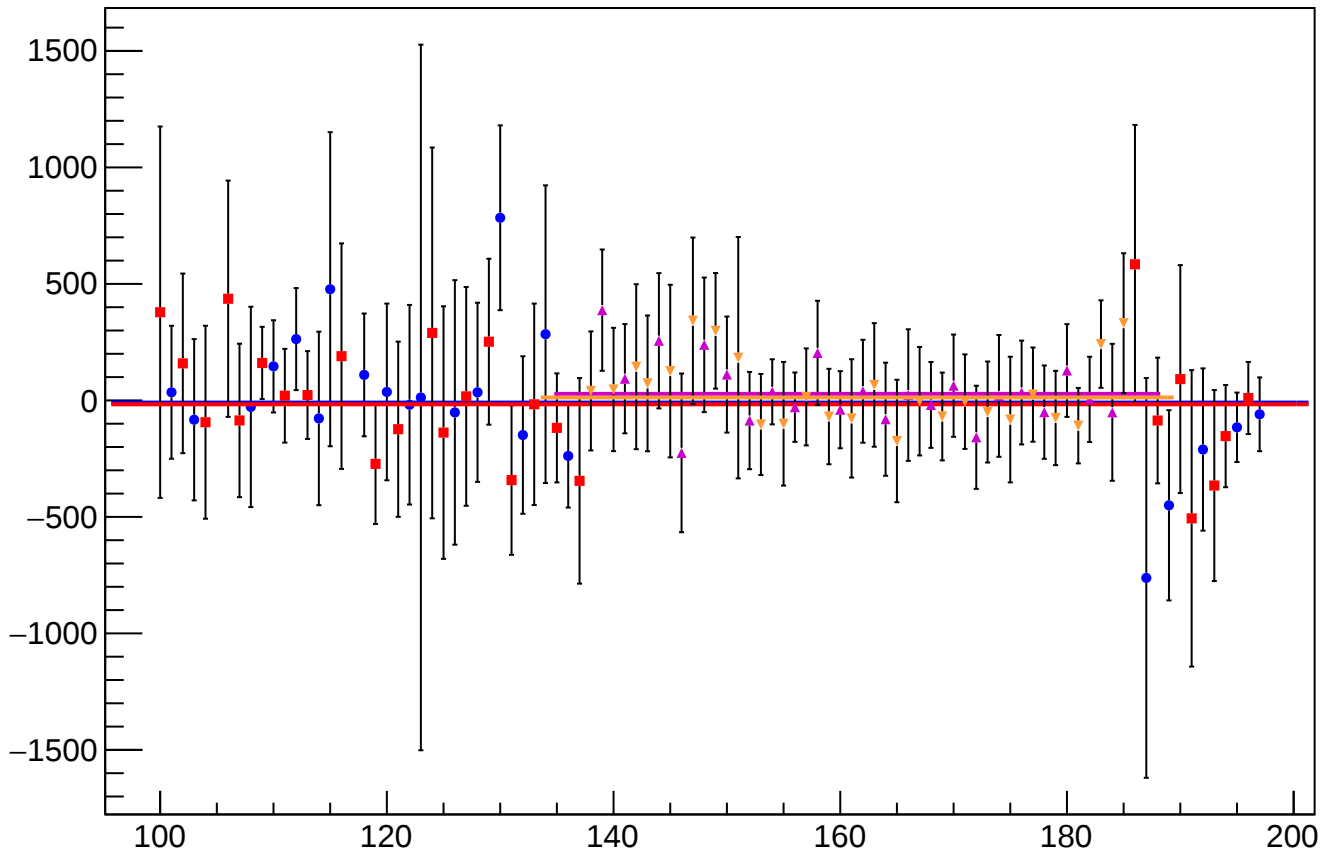
Right: 1970.029+/-0.310 χ^2/NDF : 1097928.2/47

In: 1549.074+/-0.214 χ^2/NDF : 1643400.3/44

Out: 1575.958+/-0.209 χ^2/NDF : 2183847.6/50

All: 1562.814+/-0.150 χ^2/NDF : 3835313.8/95

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -9.404 ± 62.329 $\chi^2/\text{NDF}: 11.4/21$

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 $\chi^2/\text{NDF}: 14.3/47$

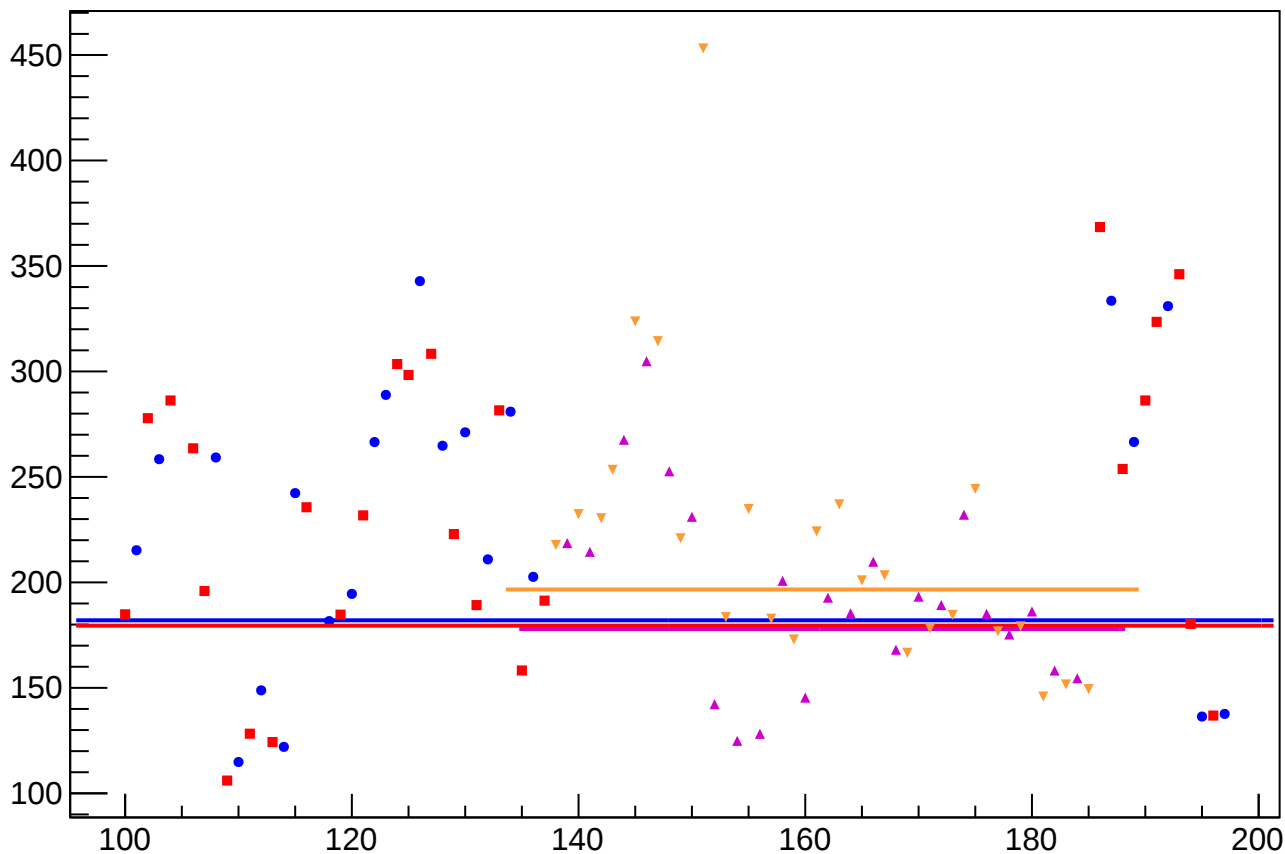
Right: -13.285 ± 42.519 $\chi^2/\text{NDF}: 20.7/47$

In: 15.310 ± 36.229 $\chi^2/\text{NDF}: 18.1/44$

Out: 0.904 ± 36.780 $\chi^2/\text{NDF}: 17.2/50$

All: 8.216 ± 25.811 $\chi^2/\text{NDF}: 35.4/95$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.025 $\pm$ 0.044 χ^2 /NDF: 1915716.4/21

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

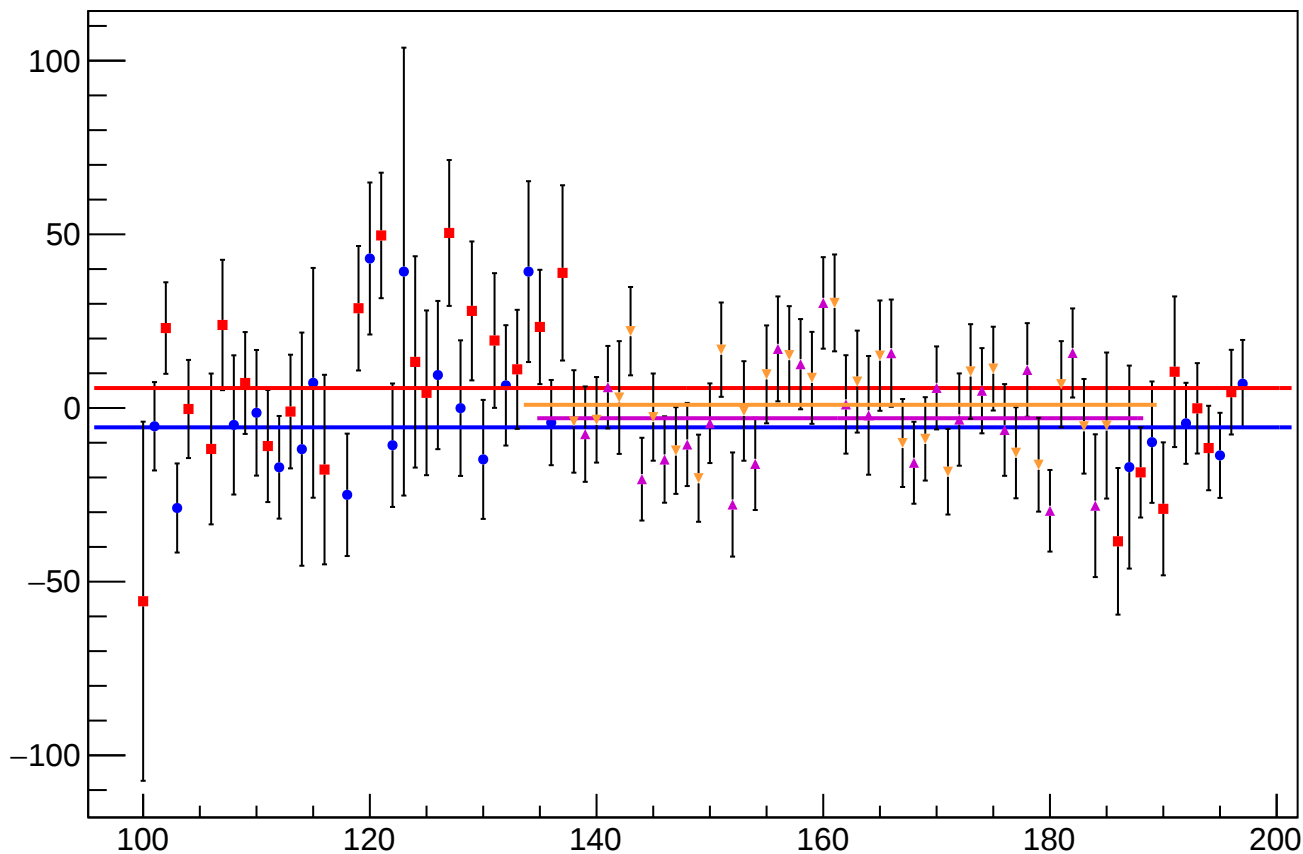
Right: 180.669 $\pm$ 0.030 χ^2 /NDF: 4544902.0/47

In: 179.279 $\pm$ 0.026 χ^2 /NDF:3565665.3/44

Out: 189.766 $\pm$ 0.026 χ^2 /NDF:4525051.8/50

All: 184.443 $\pm$ 0.018 χ^2 /NDF: 8173247.8/95

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.566 ± 3.596 χ^2/NDF : 16.8/21

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 5.747 ± 3.386 χ^2/NDF : 37.2/25

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

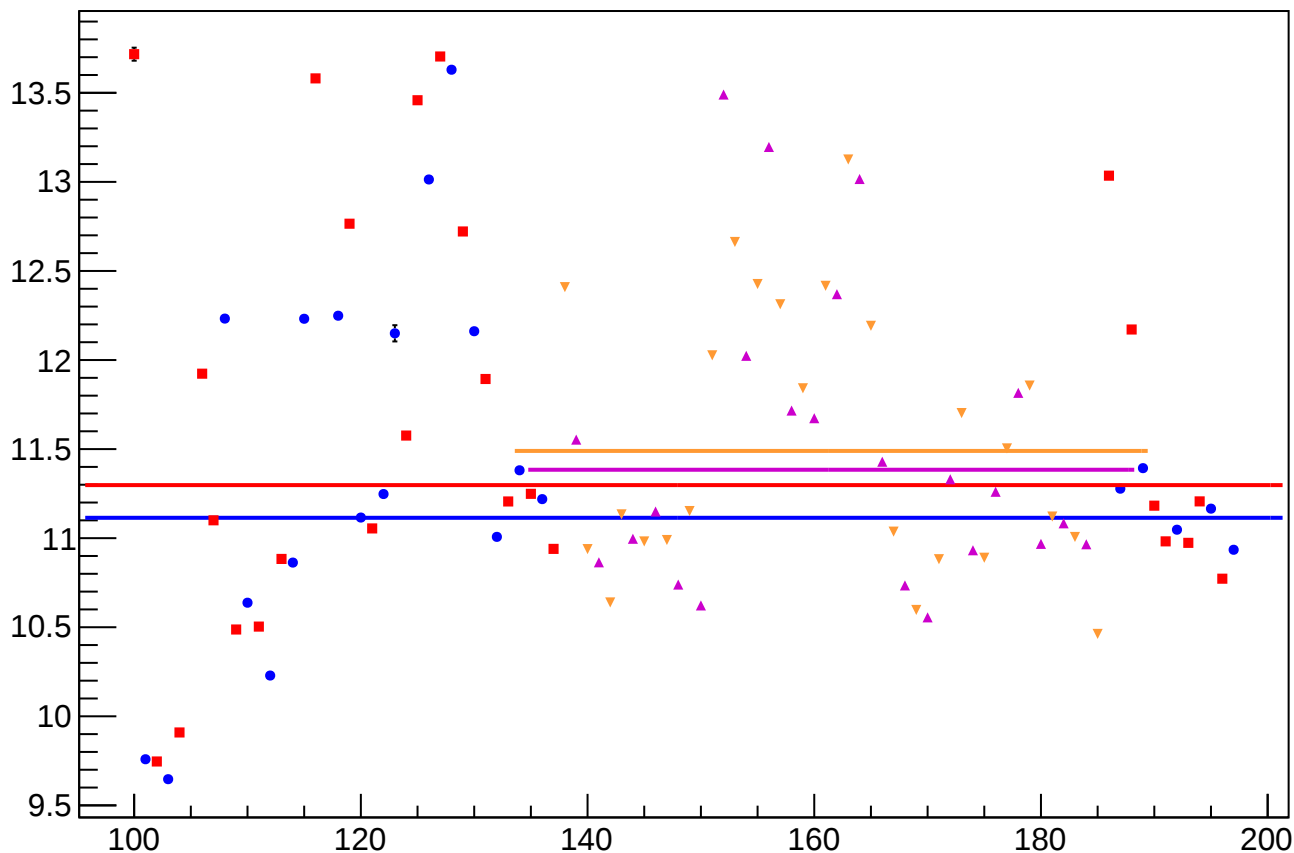
Right: 0.430 ± 2.465 χ^2/NDF : 59.2/47

In: -3.908 ± 2.182 χ^2/NDF : 48.2/44

Out: 2.793 ± 2.109 χ^2/NDF : 62.4/50

All: -0.444 ± 1.516 χ^2/NDF : 115.5/95

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.114 $\pm$ 0.003 χ^2 /NDF: 133030.2/21

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

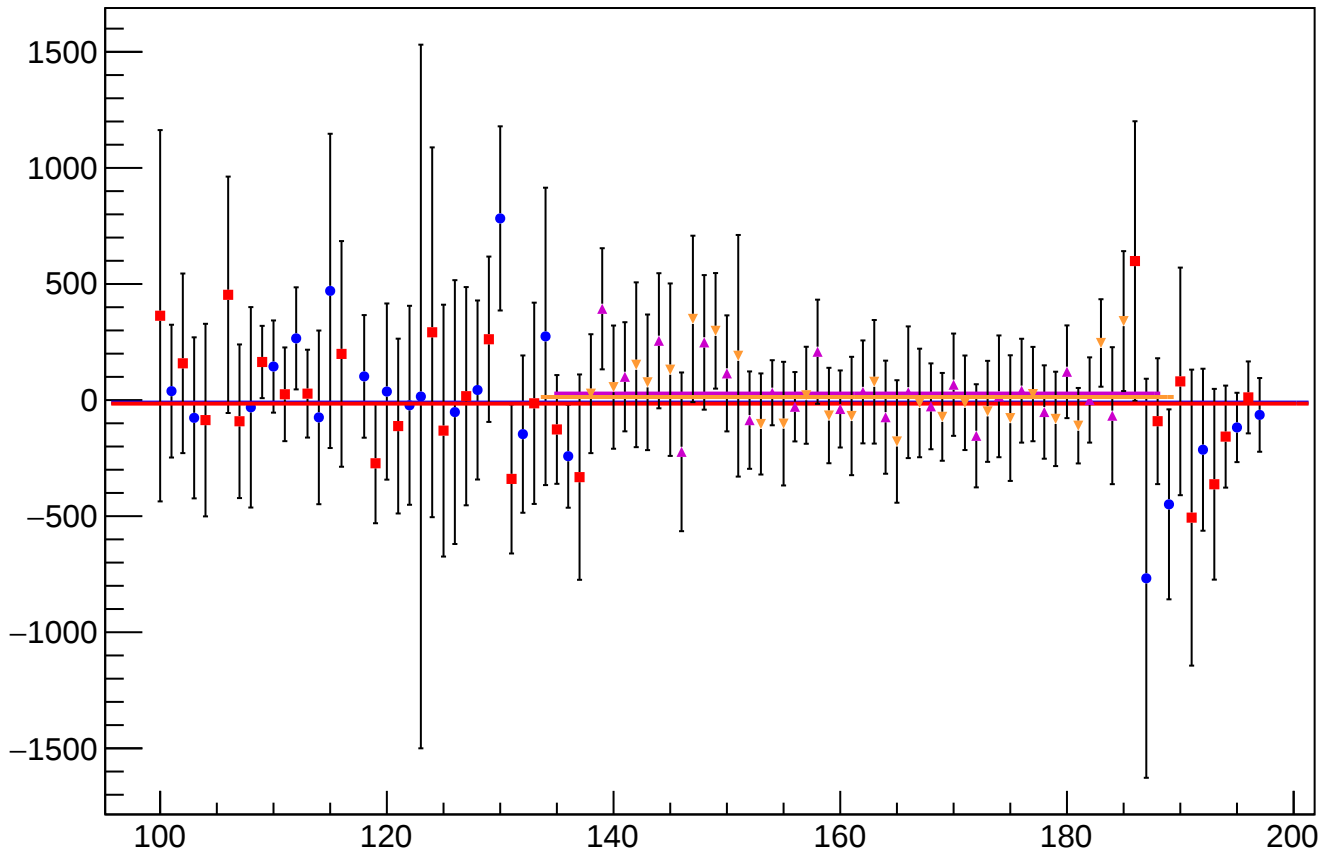
Right: 11.212 $\pm$ 0.002 χ^2 /NDF: 312772.3/47

In: 11.285 $\pm$ 0.002 χ^2 /NDF:289938.9/44

Out: 11.415 $\pm$ 0.001 χ^2 /NDF:313313.1/50

All: 11.352 $\pm$ 0.001 χ^2 /NDF: 606951.3/95

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -10.803 ± 62.486 χ^2/NDF : 11.3/21

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -15.185 ± 58.316 χ^2/NDF : 9.5/25

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

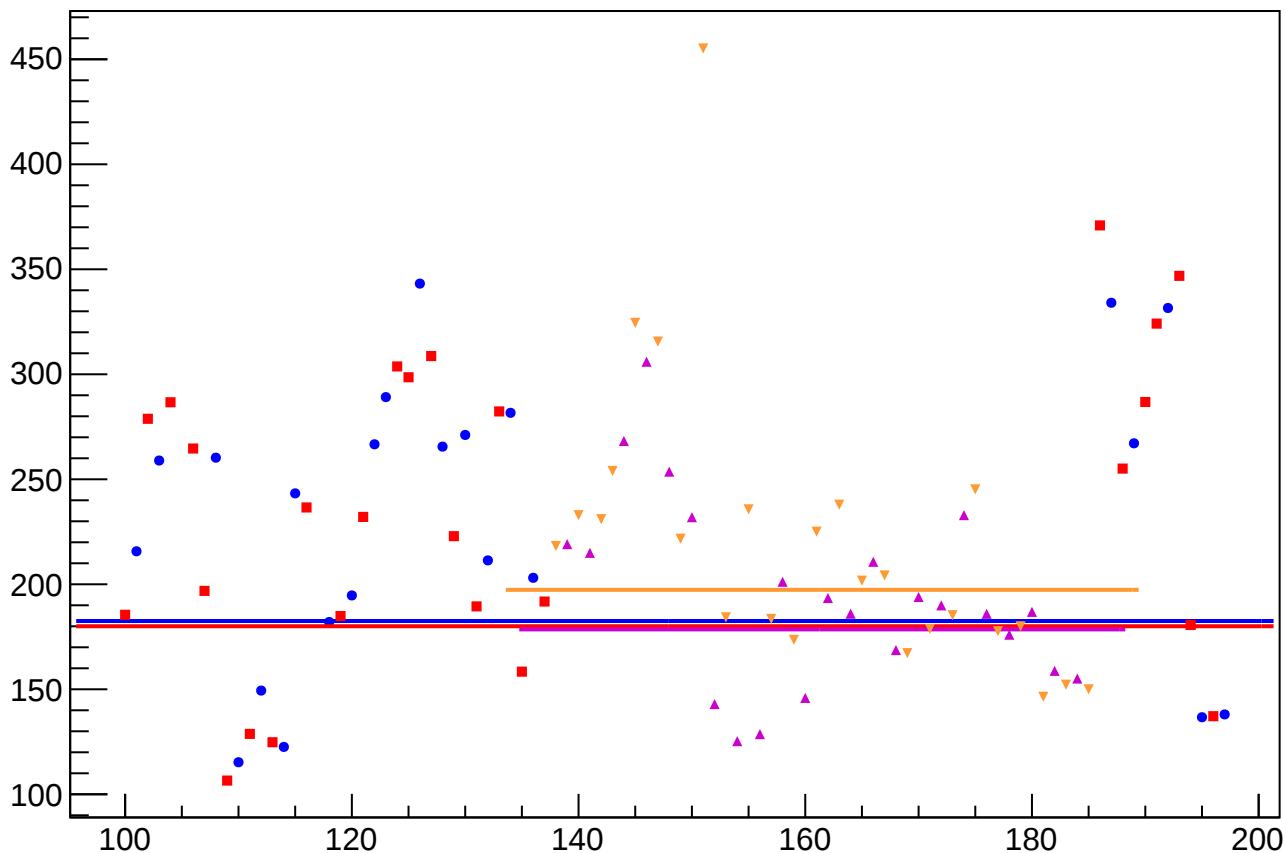
Right: -13.145 ± 42.634 χ^2/NDF : 20.8/47

In: 14.905 ± 36.345 χ^2/NDF : 18.2/44

Out: 1.906 ± 36.904 χ^2/NDF : 17.5/50

All: 8.505 ± 25.895 χ^2/NDF : 35.8/95

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.512 $\pm$ 0.044 χ^2 /NDF: 1910503.3/21

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

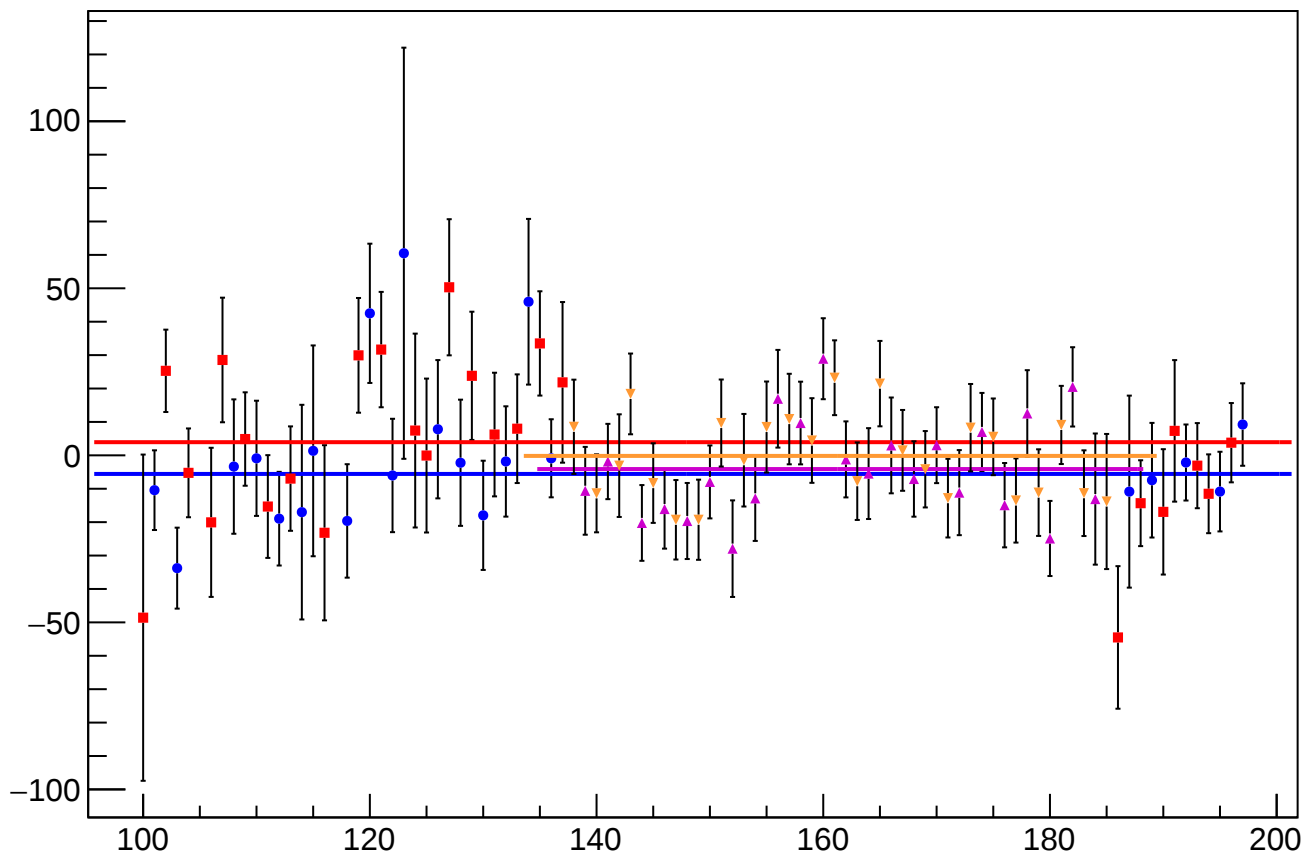
Right: 181.183 $\pm$ 0.030 χ^2 /NDF: 4534838.8/47

In: 179.865 $\pm$ 0.026 χ^2 /NDF:3558230.4/44

Out: 190.415 $\pm$ 0.026 χ^2 /NDF:4519361.0/50

All: 185.060 $\pm$ 0.018 χ^2 /NDF: 8160554.5/95

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.567 ± 3.457 $\chi^2/\text{NDF}: 21.2/21$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.938 ± 3.267 $\chi^2/\text{NDF}: 38.8/25$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

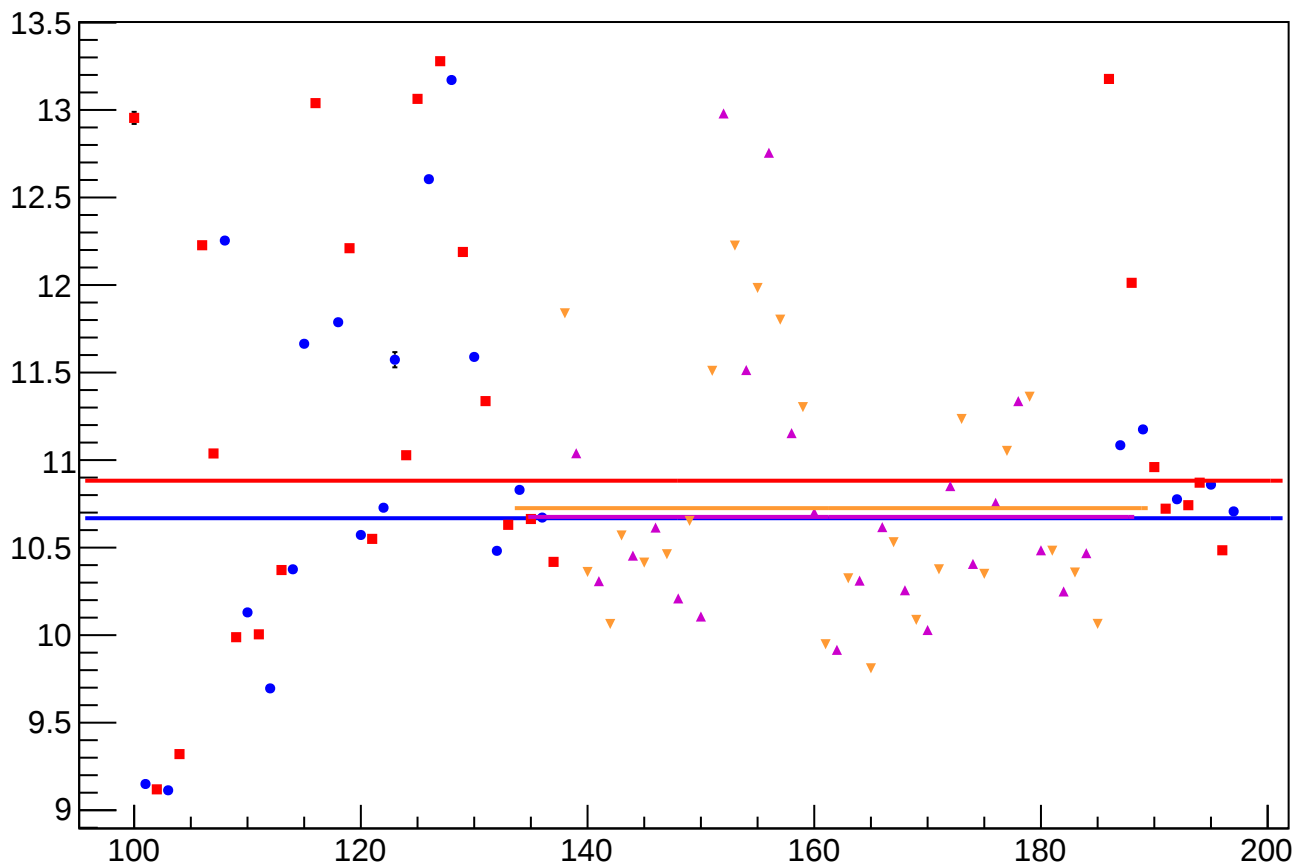
Right: -0.547 ± 2.375 $\chi^2/\text{NDF}: 64.1/47$

In: -4.629 ± 2.066 $\chi^2/\text{NDF}: 52.9/44$

Out: 1.362 ± 1.996 $\chi^2/\text{NDF}: 64.2/50$

All: -1.529 ± 1.435 $\chi^2/\text{NDF}: 121.5/95$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.668 ± 0.002 $\chi^2/\text{NDF}: 162865.8/21$

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 $\chi^2/\text{NDF}: 278494.3/47$

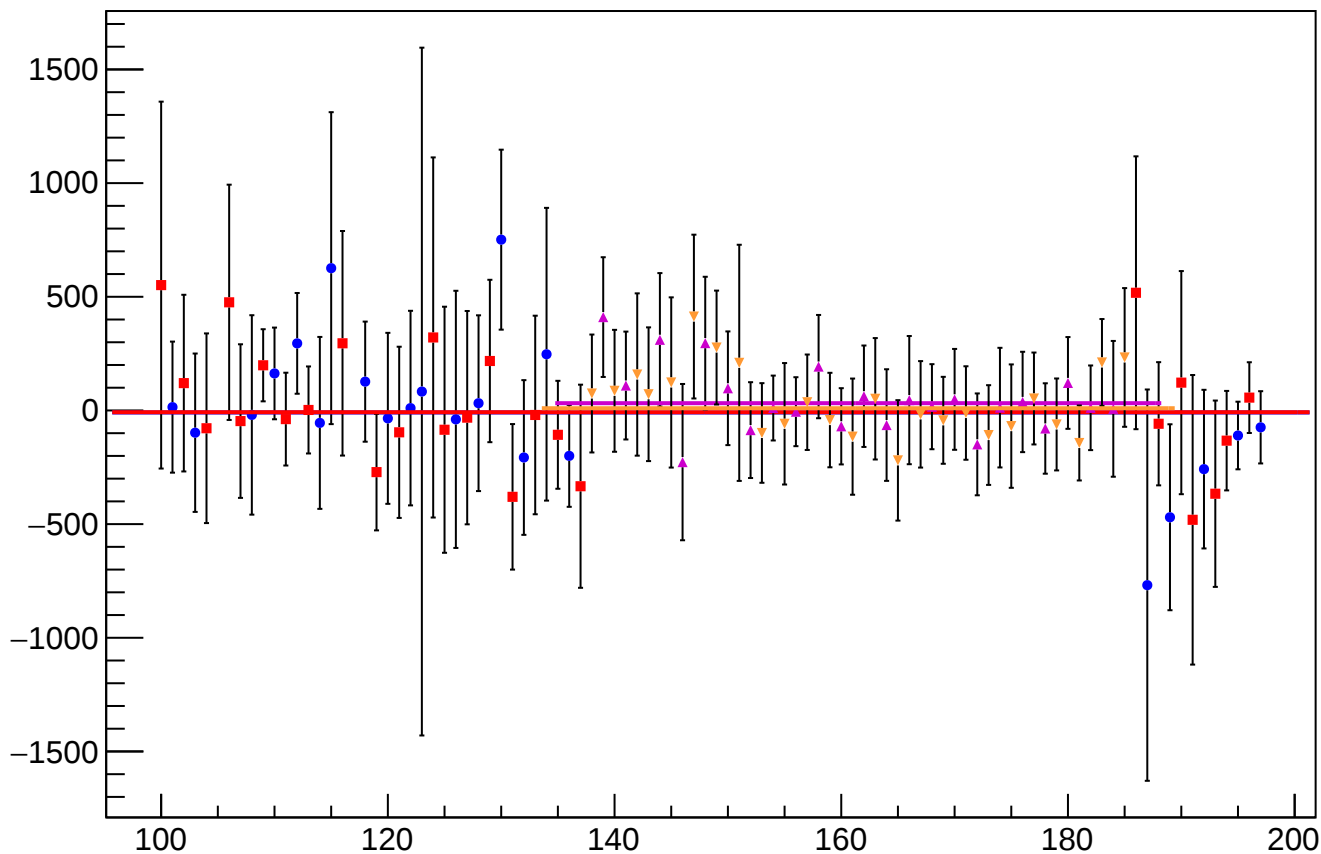
Right: 10.781 ± 0.002 $\chi^2/\text{NDF}: 388482.2/47$

In: 10.673 ± 0.001 $\chi^2/\text{NDF}: 308810.1/44$

Out: 10.784 ± 0.001 $\chi^2/\text{NDF}: 356614.0/50$

All: 10.730 ± 0.001 $\chi^2/\text{NDF}: 668420.4/95$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -8.968 ± 62.702 $\chi^2/\text{NDF}: 11.9/21$

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 $\chi^2/\text{NDF}: 14.8/47$

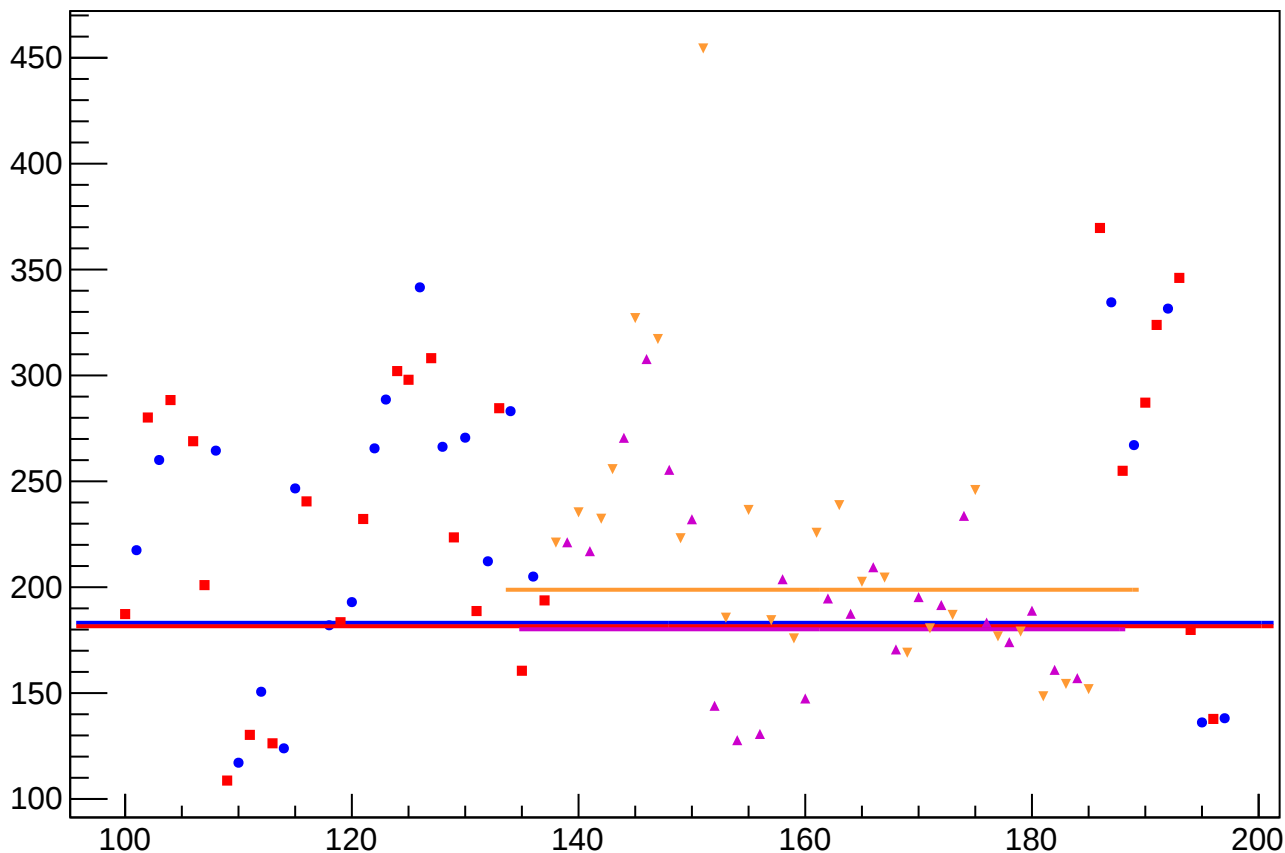
Right: -8.331 ± 42.856 $\chi^2/\text{NDF}: 22.0/47$

In: 18.049 ± 36.580 $\chi^2/\text{NDF}: 19.4/44$

Out: 2.764 ± 37.151 $\chi^2/\text{NDF}: 17.6/50$

All: 10.525 ± 26.065 $\chi^2/\text{NDF}: 37.1/95$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.187 $\pm$ 0.044 χ^2 /NDF: 1901059.5/21

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

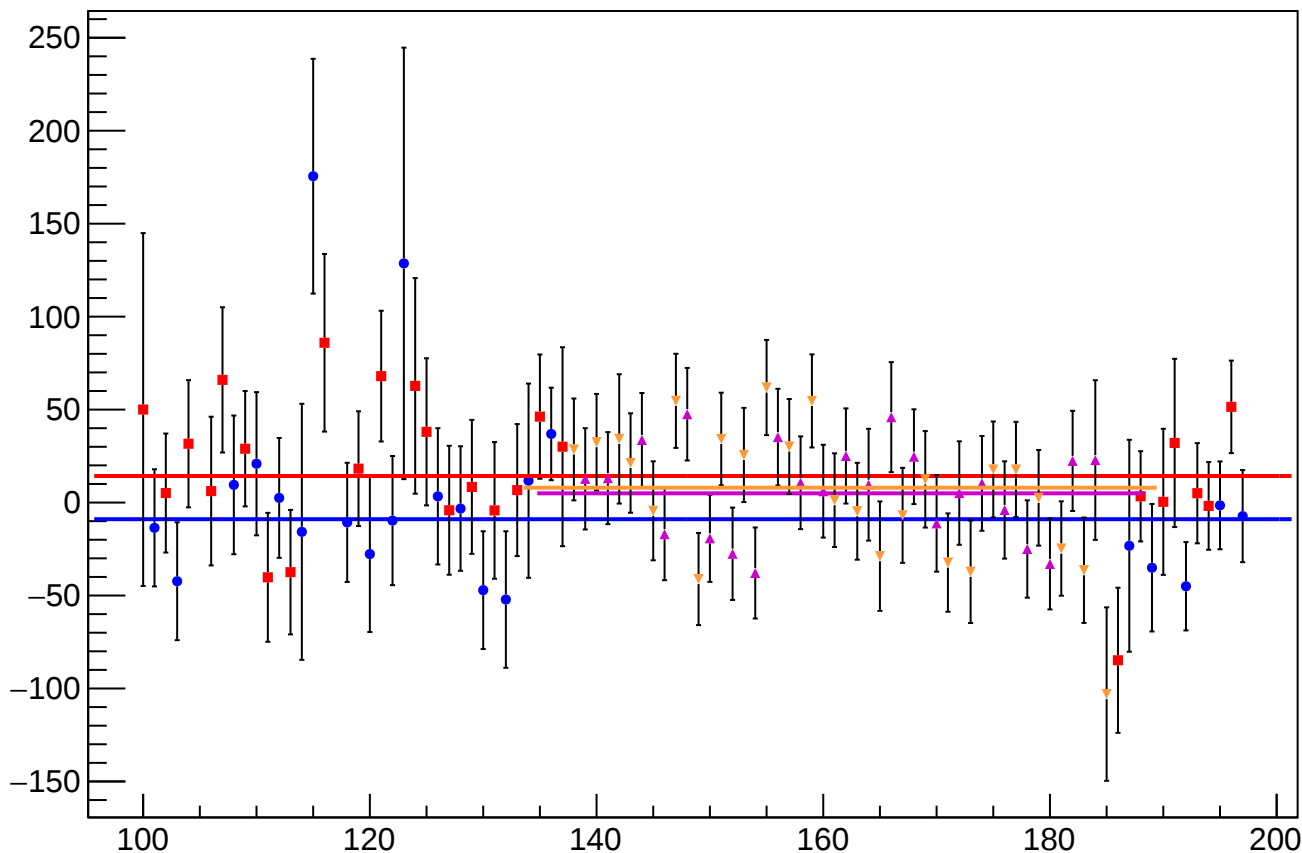
Right: 182.325 $\pm$ 0.030 χ^2 /NDF: 4462847.0/47

In: 181.166 $\pm$ 0.026 χ^2 /NDF:3498051.9/44

Out: 191.900 $\pm$ 0.026 χ^2 /NDF:4427493.8/50

All: 186.450 $\pm$ 0.018 χ^2 /NDF: 8010329.3/95

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -8.946 ± 7.259 χ^2/NDF : 21.8/21

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 14.293 ± 6.760 χ^2/NDF : 24.4/25

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

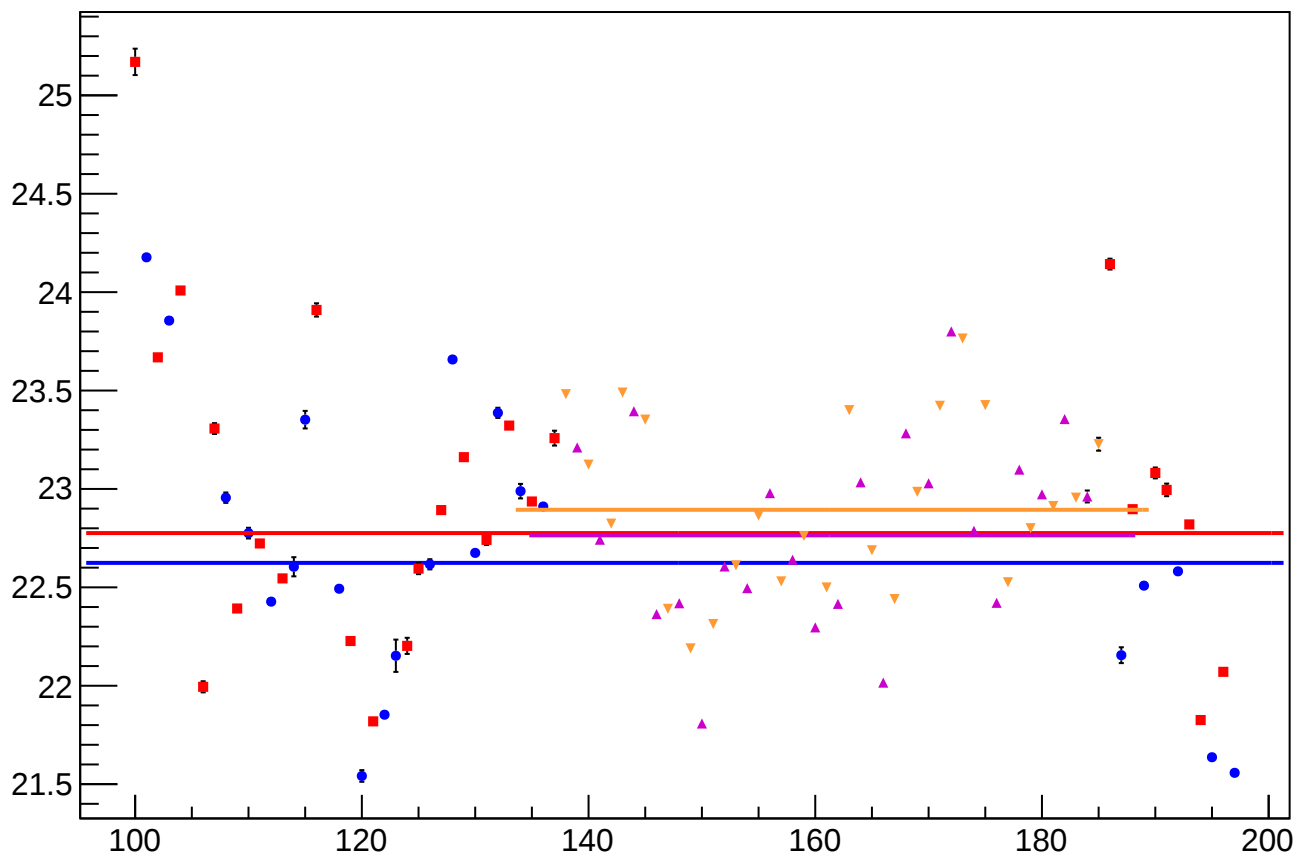
Right: 3.500 ± 4.947 χ^2/NDF : 51.7/47

In: -0.038 ± 4.356 χ^2/NDF : 44.7/44

Out: 10.405 ± 4.184 χ^2/NDF : 62.4/50

All: 5.393 ± 3.017 χ^2/NDF : 110.0/95

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.624 ± 0.005 $\chi^2/\text{NDF}: 21295.7/21$

Left Out: 22.894 ± 0.004 $\chi^2/\text{NDF}: 13070.5/24$

Right Out: 22.776 ± 0.005 $\chi^2/\text{NDF}: 18905.5/25$

Left In: 22.764 ± 0.004 $\chi^2/\text{NDF}: 14665.7/22$

Left: 22.831 ± 0.003 $\chi^2/\text{NDF}: 28317.3/47$

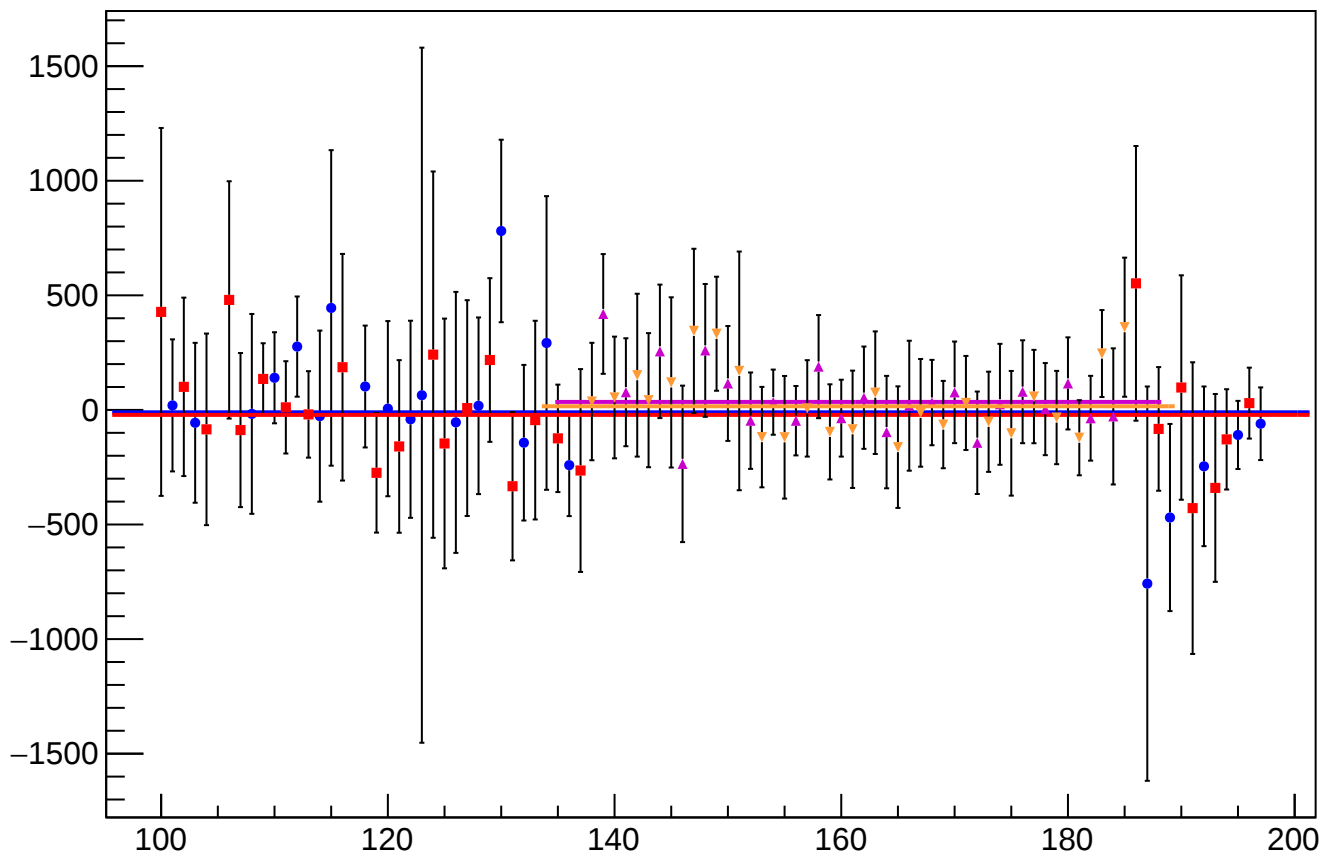
Right: 22.705 ± 0.003 $\chi^2/\text{NDF}: 40667.5/47$

In: 22.714 ± 0.003 $\chi^2/\text{NDF}: 36437.2/44$

Out: 22.849 ± 0.003 $\chi^2/\text{NDF}: 32354.0/50$

All: 22.784 ± 0.002 $\chi^2/\text{NDF}: 69788.8/95$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -10.458 ± 62.506 $\chi^2/\text{NDF}: 11.4/21$

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 $\chi^2/\text{NDF}: 15.1/47$

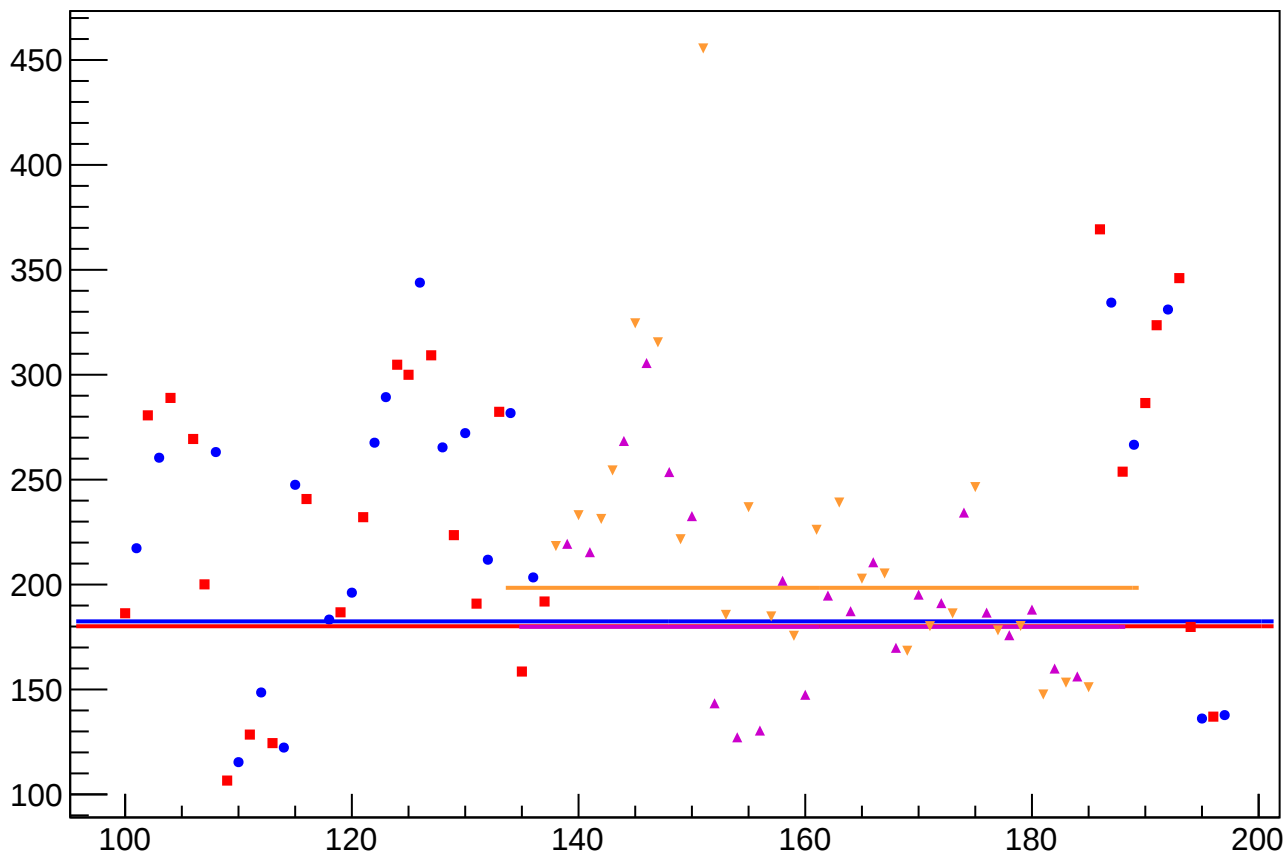
Right: -16.429 ± 42.660 $\chi^2/\text{NDF}: 19.5/47$

In: 19.442 ± 36.505 $\chi^2/\text{NDF}: 18.3/44$

Out: 0.797 ± 37.027 $\chi^2/\text{NDF}: 16.8/50$

All: 10.252 ± 25.995 $\chi^2/\text{NDF}: 35.2/95$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.460 $\pm$ 0.044 χ^2 /NDF: 1934237.0/21

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

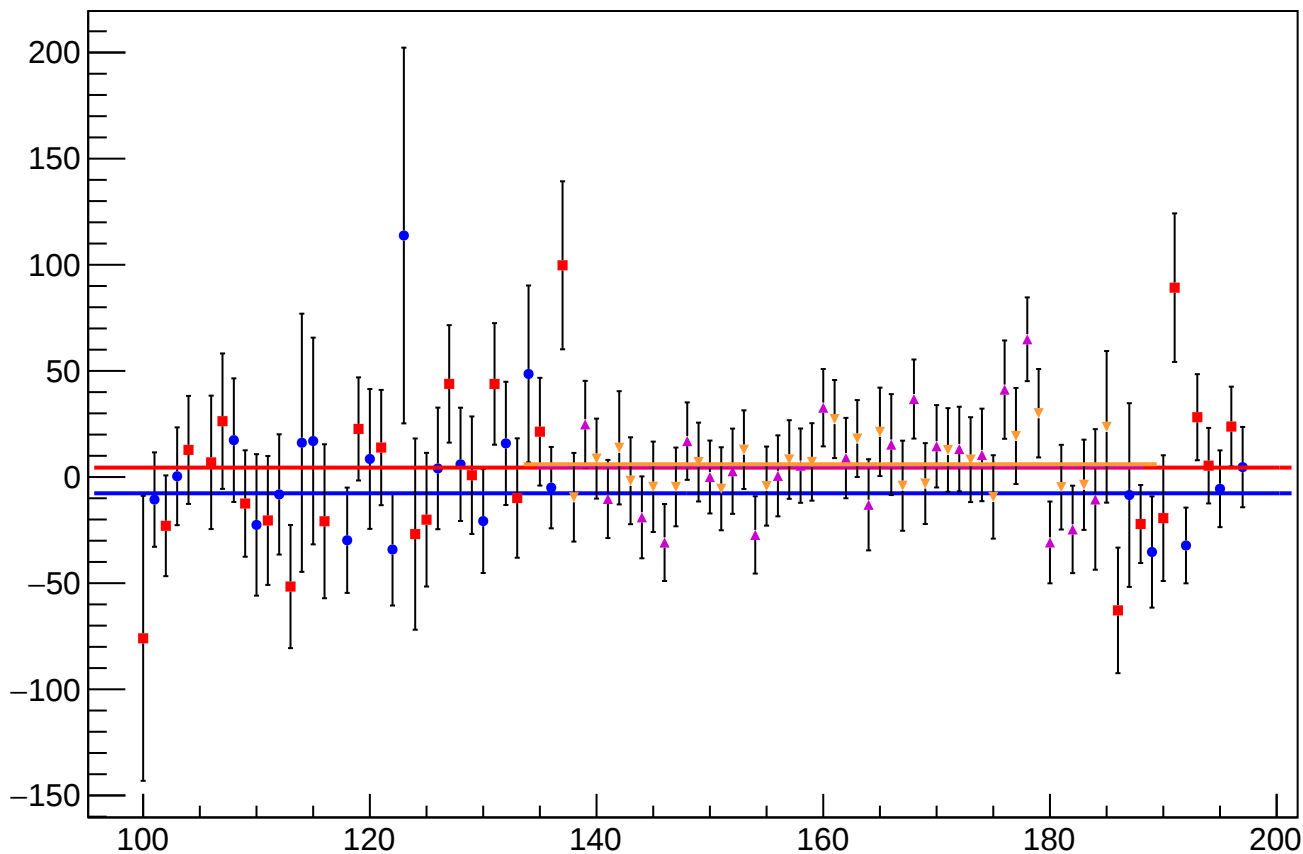
Right: 181.214 $\pm$ 0.030 χ^2 /NDF: 4577178.0/47

In: 180.733 $\pm$ 0.026 χ^2 /NDF:3525388.8/44

Out: 191.076 $\pm$ 0.026 χ^2 /NDF:4520662.8/50

All: 185.831 $\pm$ 0.018 χ^2 /NDF: 8125191.7/95

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.655 ± 5.608 χ^2/NDF : 12.1/21

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

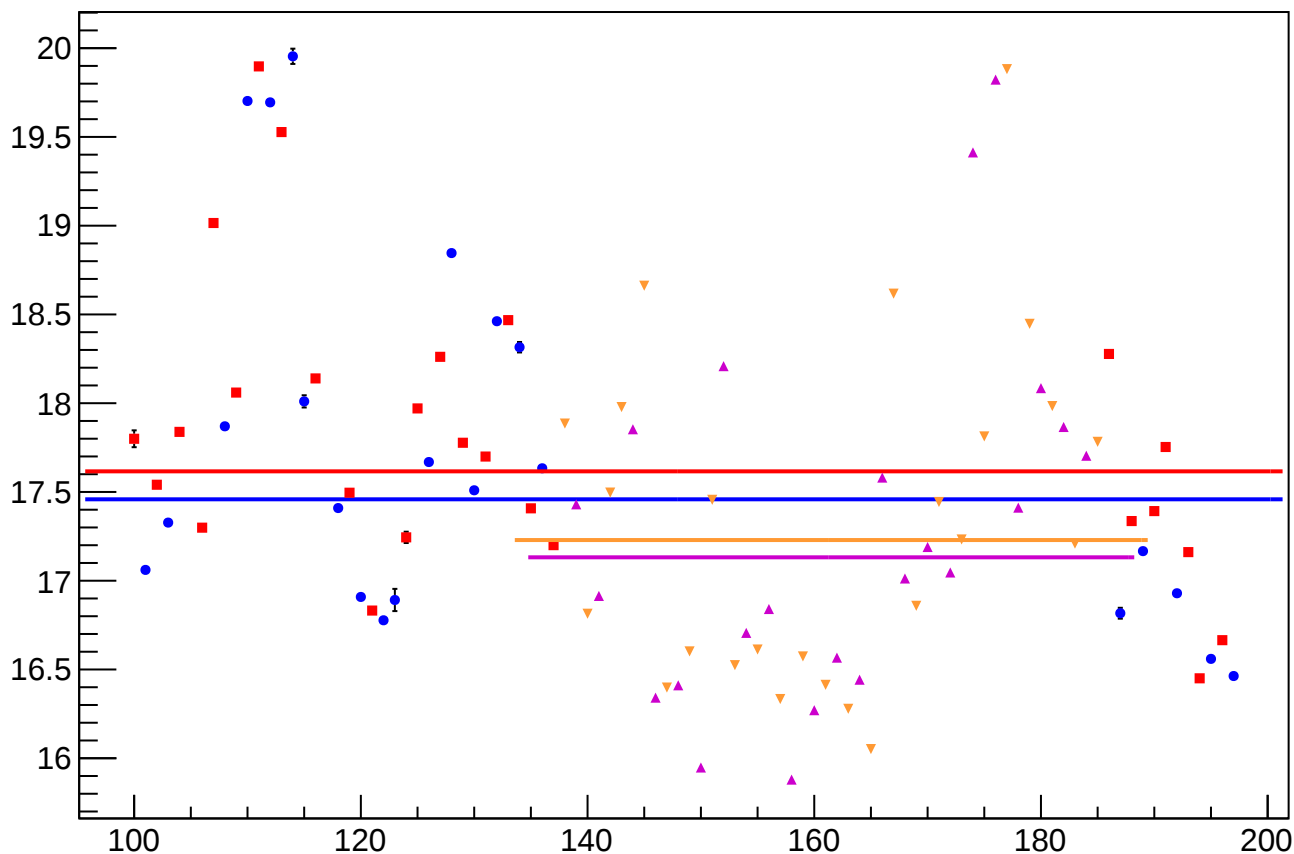
Right: -1.190 ± 3.827 χ^2/NDF : 51.7/47

In: 0.545 ± 3.314 χ^2/NDF : 50.2/44

Out: 5.436 ± 3.187 χ^2/NDF : 45.3/50

All: 3.086 ± 2.297 χ^2/NDF : 96.6/95

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.459 $\pm$ 0.004 χ^2 /NDF: 50090.1/21

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

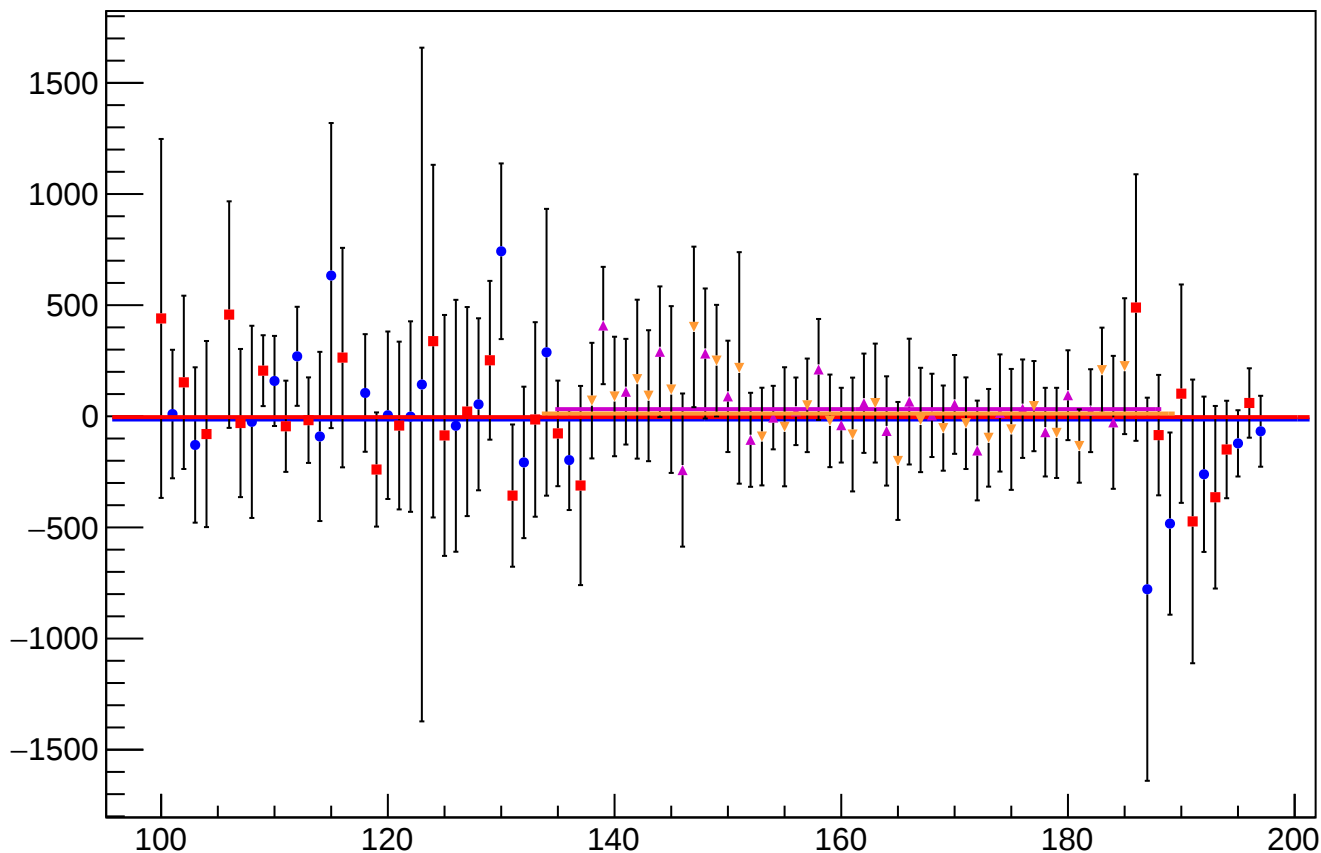
Right: 17.543 $\pm$ 0.003 χ^2 /NDF: 97981.0/47

In: 17.246 $\pm$ 0.002 χ^2 /NDF: 158507.4/44

Out: 17.373 $\pm$ 0.002 χ^2 /NDF: 152551.7/50

All: 17.312 $\pm$ 0.002 χ^2 /NDF: 312575.8/95

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -14.437 ± 62.870 $\chi^2/\text{NDF}: 11.7/21$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -3.750 ± 58.841 $\chi^2/\text{NDF}: 9.5/25$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

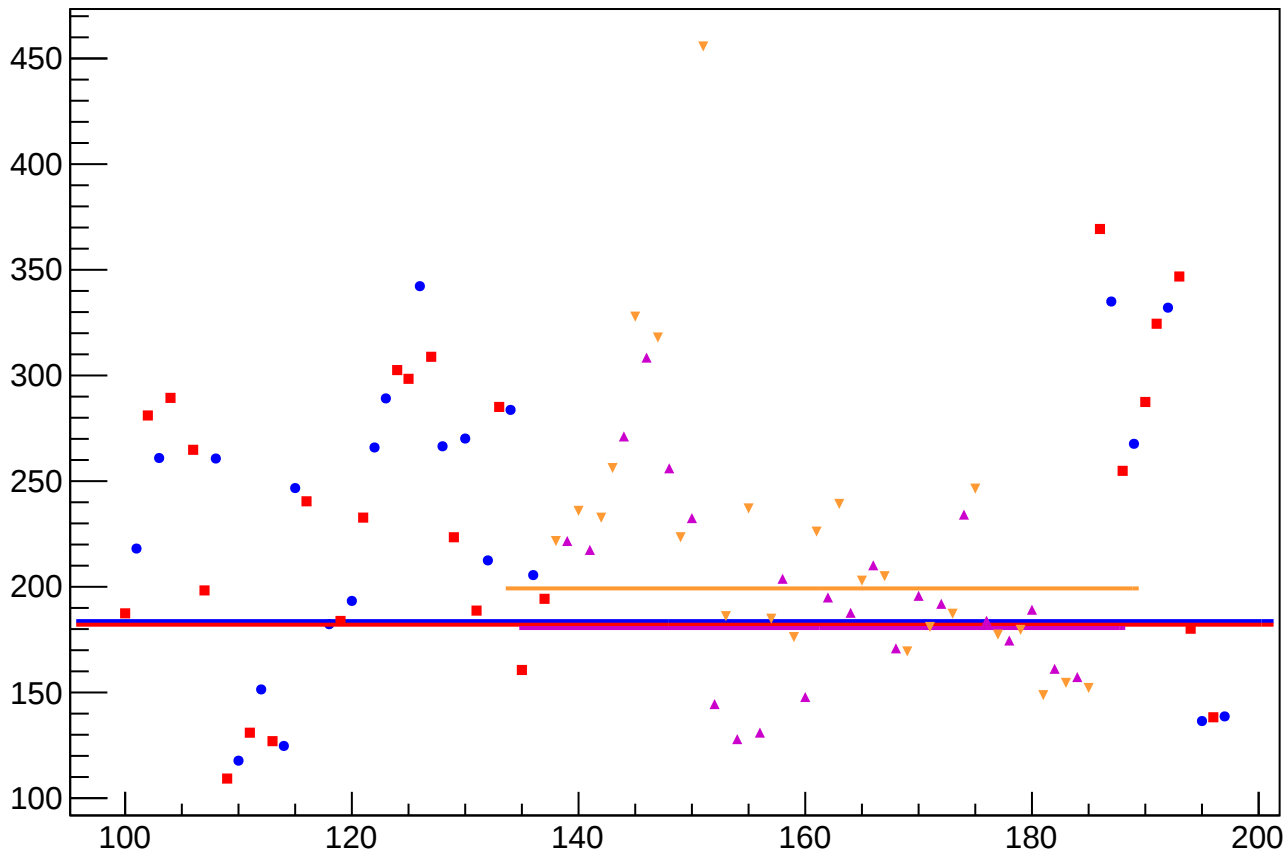
Right: -8.741 ± 42.961 $\chi^2/\text{NDF}: 21.2/47$

In: 16.313 ± 36.663 $\chi^2/\text{NDF}: 19.1/44$

Out: 5.978 ± 37.234 $\chi^2/\text{NDF}: 16.4/50$

All: 11.225 ± 26.124 $\chi^2/\text{NDF}: 35.5/95$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.768 $\pm$ 0.044 χ^2 /NDF: 1883784.7/21

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

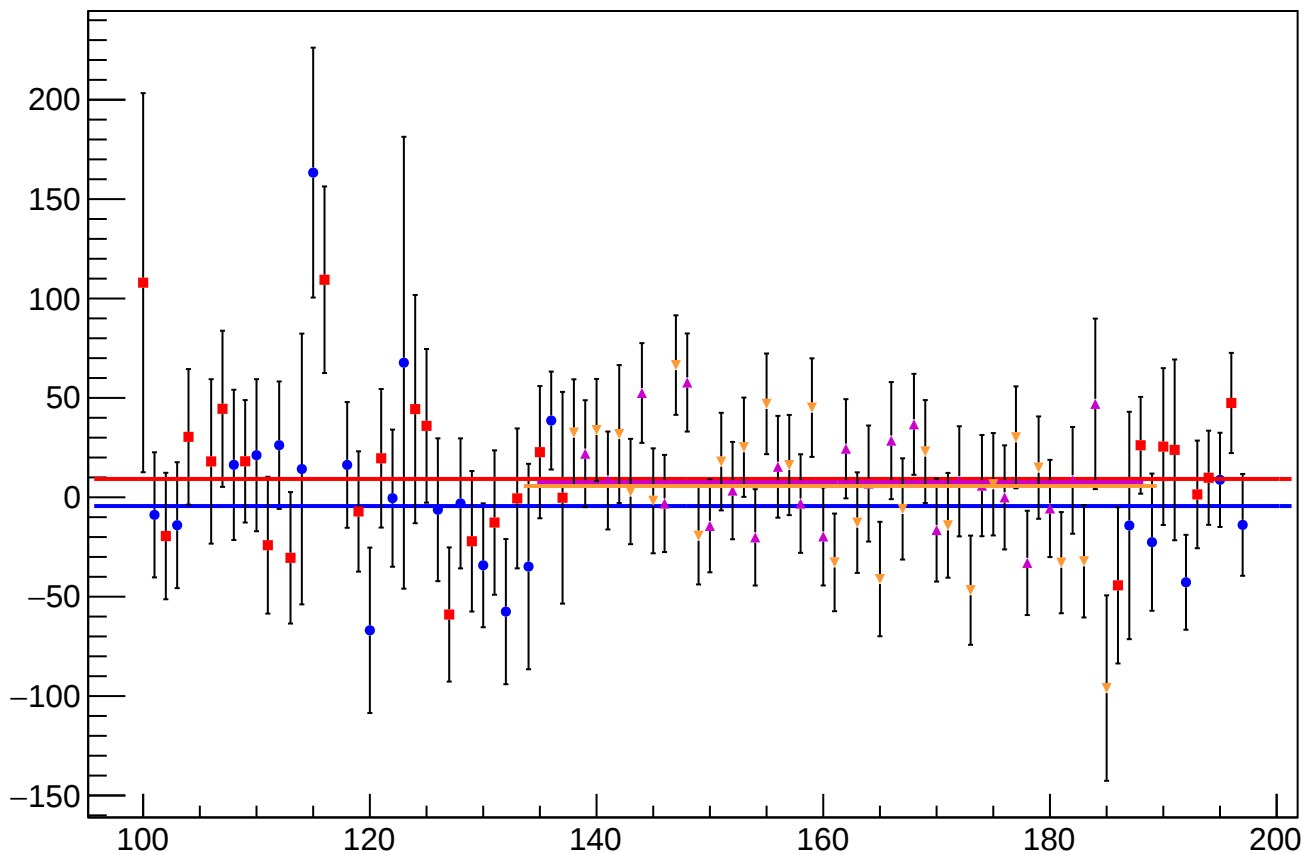
Right: 182.868 $\pm$ 0.030 χ^2 /NDF: 4422051.6/47

In: 181.607 $\pm$ 0.026 χ^2 /NDF:3481147.8/44

Out: 192.370 $\pm$ 0.026 χ^2 /NDF:4403591.4/50

All: 186.905 $\pm$ 0.018 χ^2 /NDF: 7969583.5/95

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.406 ± 7.246 χ^2/NDF : 21.8/21

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

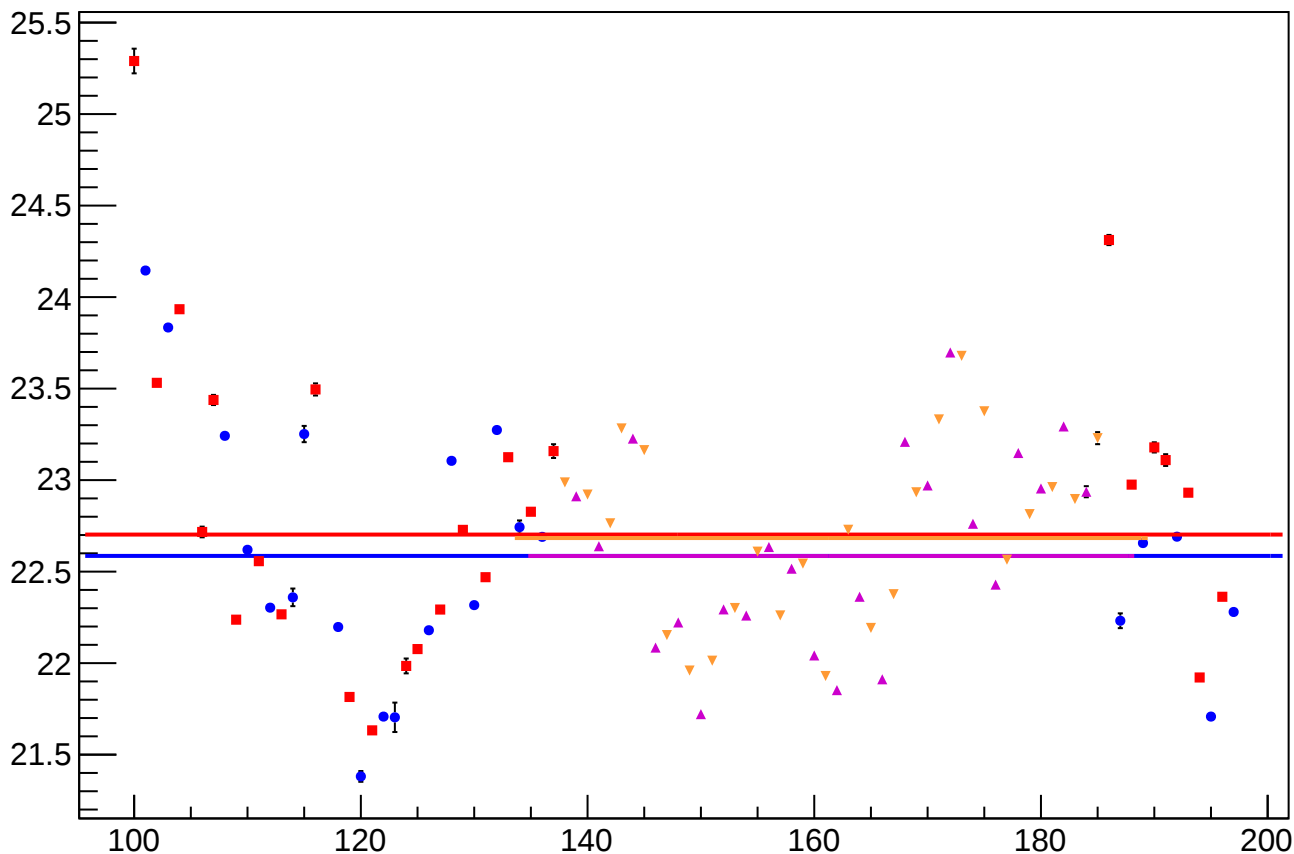
Right: 2.904 ± 4.934 χ^2/NDF : 45.6/47

In: 3.307 ± 4.331 χ^2/NDF : 41.9/44

Out: 7.023 ± 4.155 χ^2/NDF : 58.5/50

All: 5.242 ± 2.998 χ^2/NDF : 100.7/95

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.586 $\pm$ 0.005 χ^2 /NDF: 17246.0/21

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16318.1/24

Right Out: 22.702 $\pm$ 0.005 χ^2 /NDF: 19567.8/25

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF: 18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

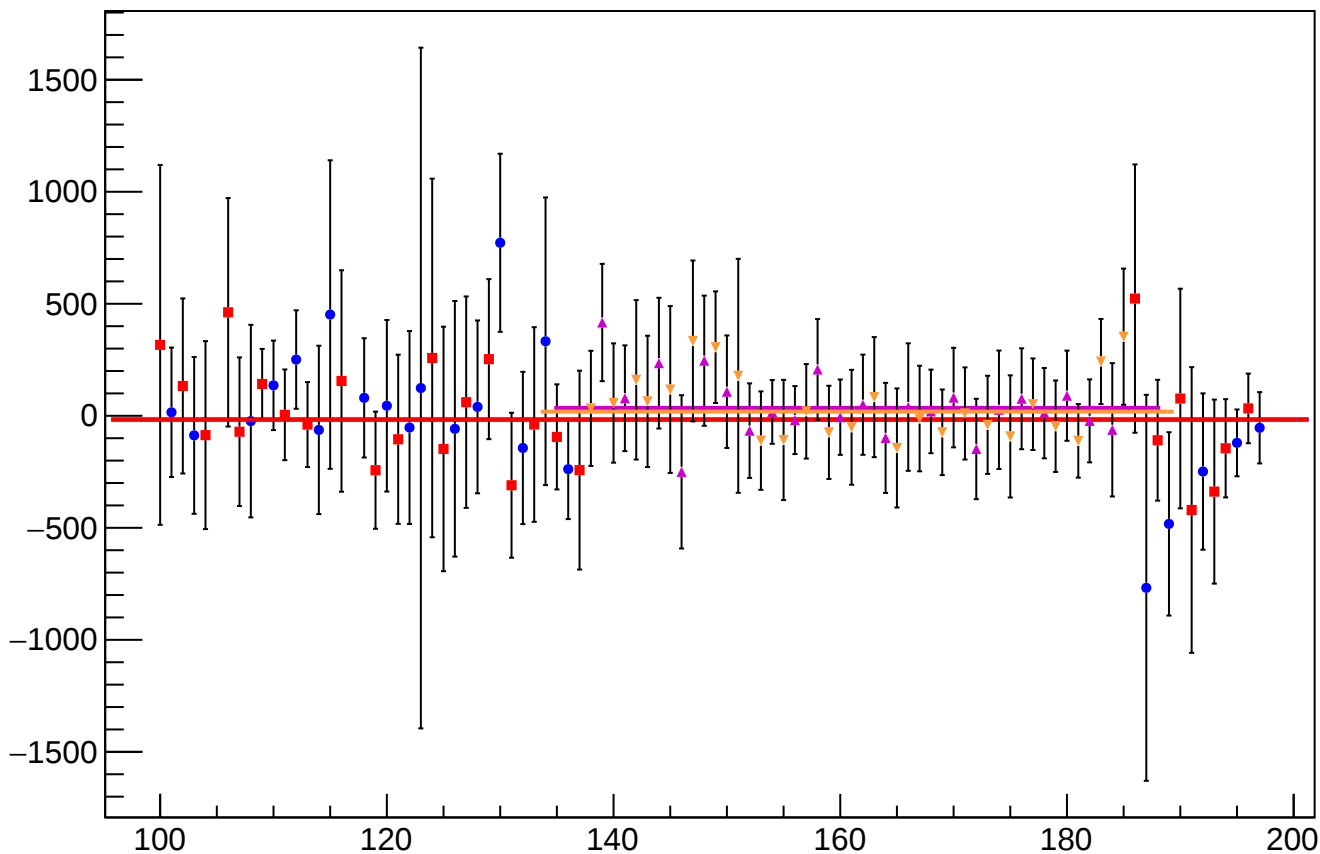
Right: 22.648 $\pm$ 0.003 χ^2 /NDF: 37091.4/47

In: 22.585 $\pm$ 0.003 χ^2 /NDF: 35333.5/44

Out: 22.691 $\pm$ 0.003 χ^2 /NDF: 35895.7/50

All: 22.640 $\pm$ 0.002 χ^2 /NDF: 71843.7/95

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -16.044 ± 62.676 $\chi^2/\text{NDF}: 11.2/21$

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 $\chi^2/\text{NDF}: 13.9/47$

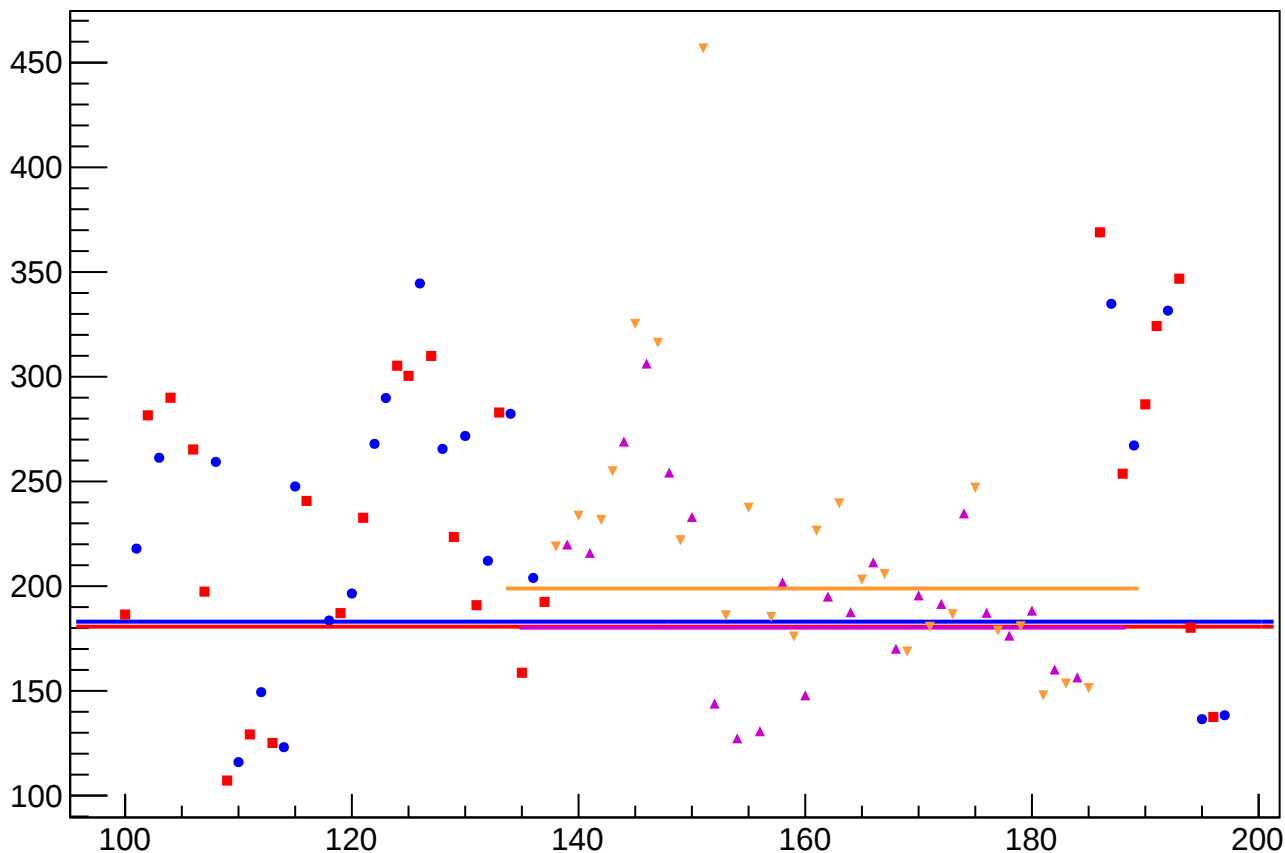
Right: -16.935 ± 42.767 $\chi^2/\text{NDF}: 18.8/47$

In: 17.636 ± 36.588 $\chi^2/\text{NDF}: 17.9/44$

Out: 4.008 ± 37.111 $\chi^2/\text{NDF}: 15.4/50$

All: 10.919 ± 26.054 $\chi^2/\text{NDF}: 33.4/95$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.049 $\pm$ 0.044 χ^2 /NDF: 1916302.9/21

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

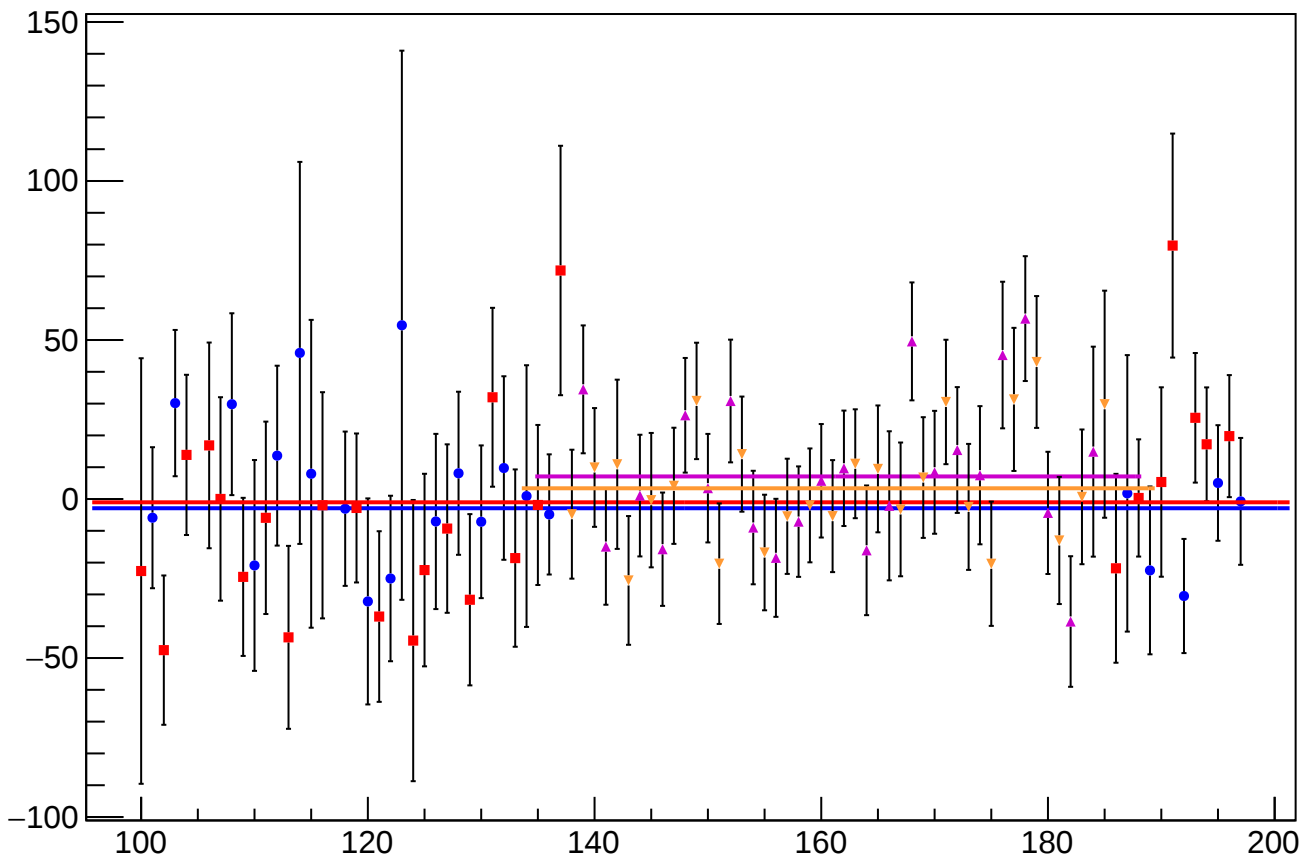
Right: 181.768 $\pm$ 0.030 χ^2 /NDF: 4534650.5/47

In: 181.176 $\pm$ 0.026 χ^2 /NDF:3508019.6/44

Out: 191.551 $\pm$ 0.026 χ^2 /NDF:4495406.7/50

All: 186.290 $\pm$ 0.018 χ^2 /NDF: 8082704.0/95

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.903 ± 5.586 χ^2/NDF : 10.3/21

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

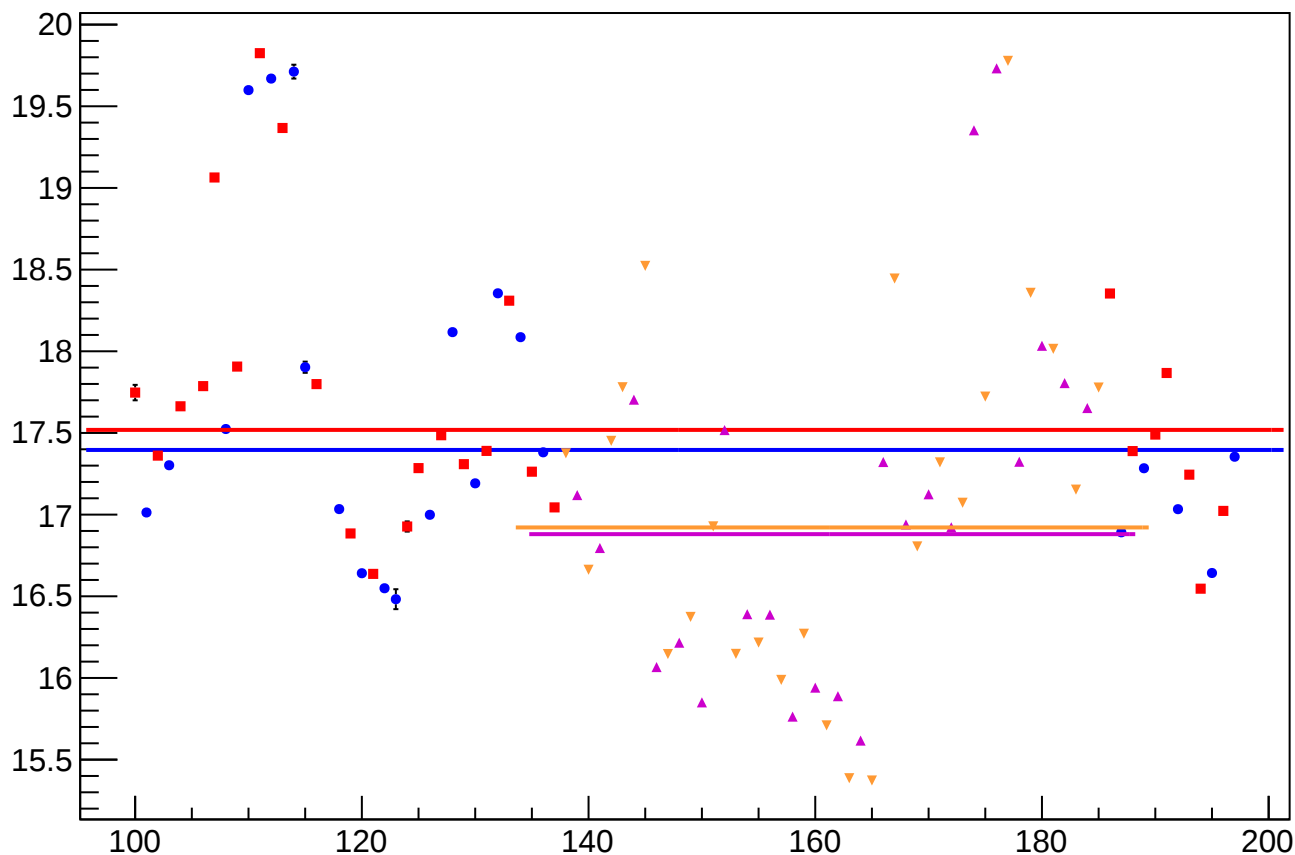
Right: -1.903 ± 3.808 χ^2/NDF : 37.7/47

In: 3.656 ± 3.278 χ^2/NDF : 44.9/44

Out: 1.763 ± 3.145 χ^2/NDF : 46.6/50

All: 2.670 ± 2.269 χ^2/NDF : 91.7/95

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.396 $\pm$ 0.004 χ^2 /NDF: 38974.8/21

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.519 $\pm$ 0.004 χ^2 /NDF: 41338.6/25

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

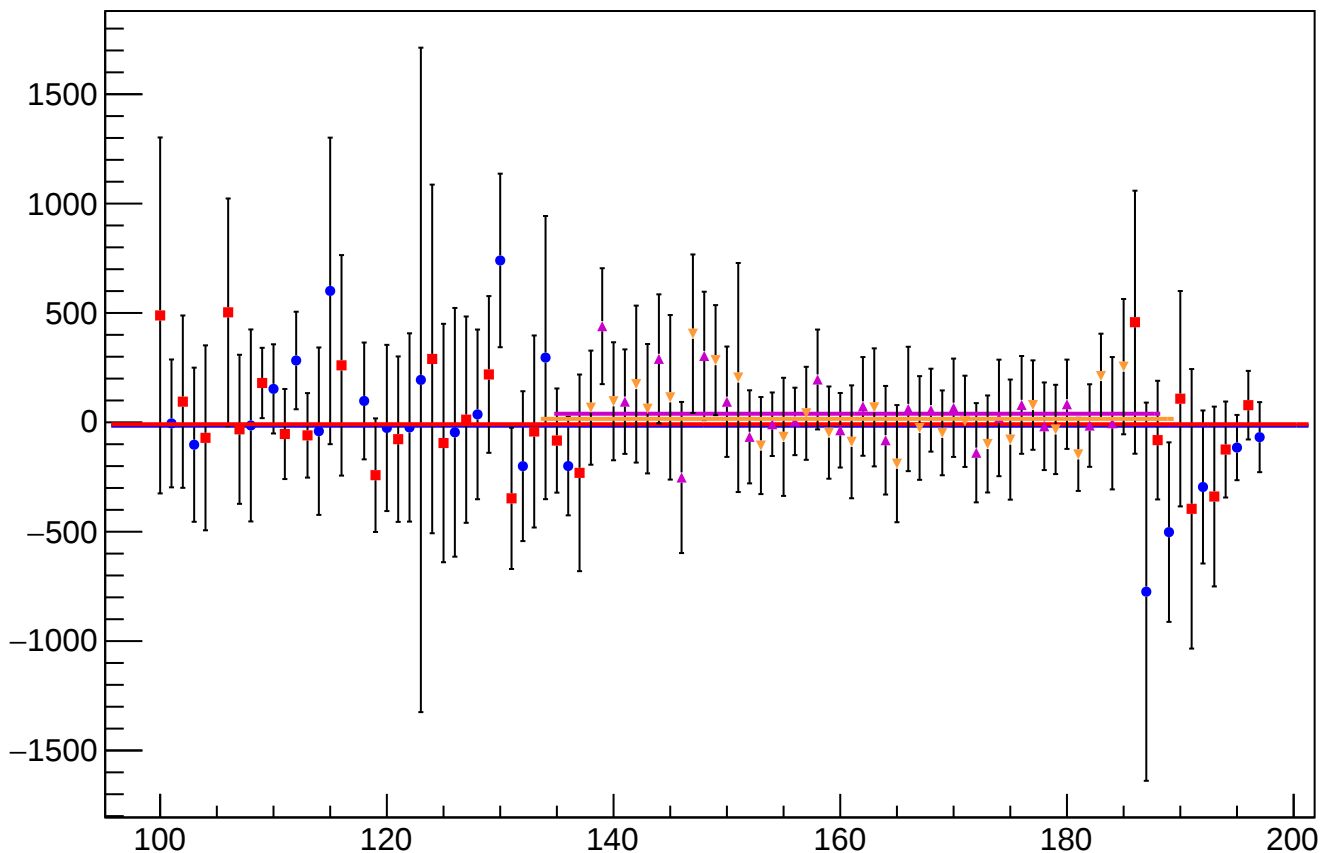
Right: 17.462 $\pm$ 0.003 χ^2 /NDF: 80830.6/47

In: 17.058 $\pm$ 0.002 χ^2 /NDF:171879.6/44

Out: 17.140 $\pm$ 0.002 χ^2 /NDF:197049.2/50

All: 17.100 $\pm$ 0.002 χ^2 /NDF: 369574.5/95

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -15.375 ± 63.139 χ^2/NDF : 11.7/21

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -8.613 ± 59.167 χ^2/NDF : 8.4/25

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

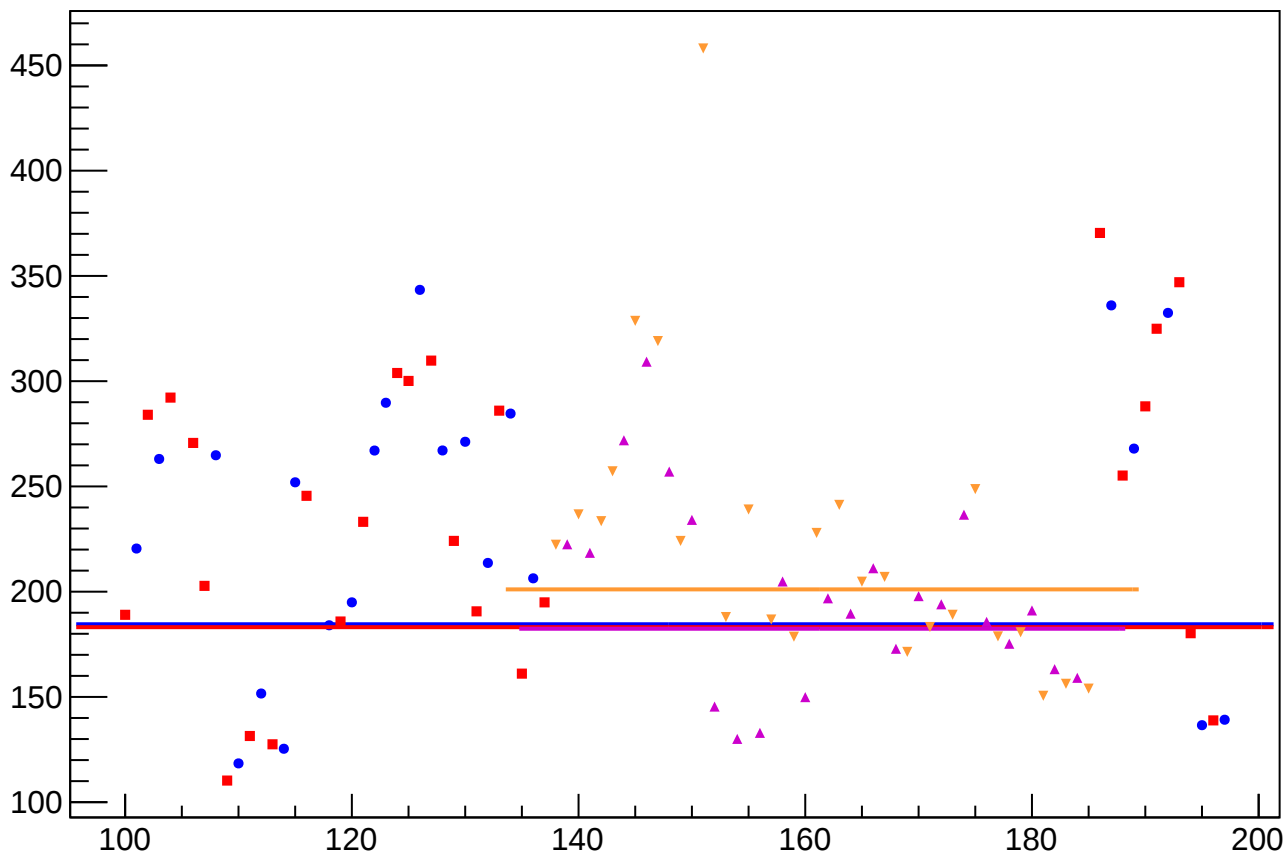
Right: -11.775 ± 43.173 χ^2/NDF : 20.1/47

In: 20.624 ± 36.951 χ^2/NDF : 19.1/44

Out: 6.089 ± 37.510 χ^2/NDF : 15.9/50

All: 13.466 ± 26.324 χ^2/NDF : 35.0/95

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 184.522 $\pm$ 0.045 χ^2 /NDF: 1893516.6/21

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF: 1731069.1/24

Right Out: 183.135 $\pm$ 0.042 χ^2 /NDF: 2536997.6/25

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF: 1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

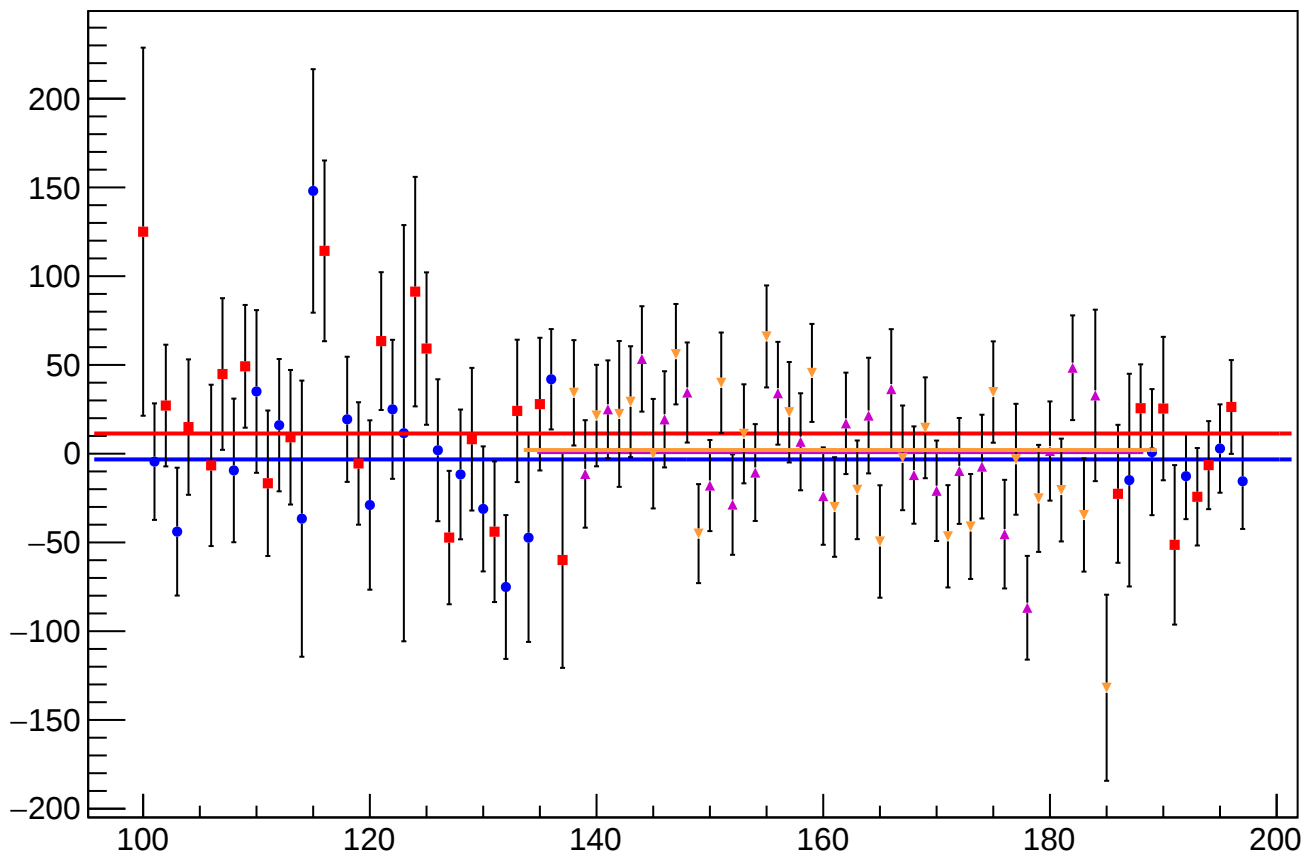
Right: 183.784 $\pm$ 0.031 χ^2 /NDF: 4431028.0/47

In: 183.124 $\pm$ 0.026 χ^2 /NDF: 3443915.3/44

Out: 193.874 $\pm$ 0.027 χ^2 /NDF: 4378232.4/50

All: 188.419 $\pm$ 0.019 χ^2 /NDF: 7905513.2/95

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.231 ± 7.916 χ^2/NDF : 16.0/21

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

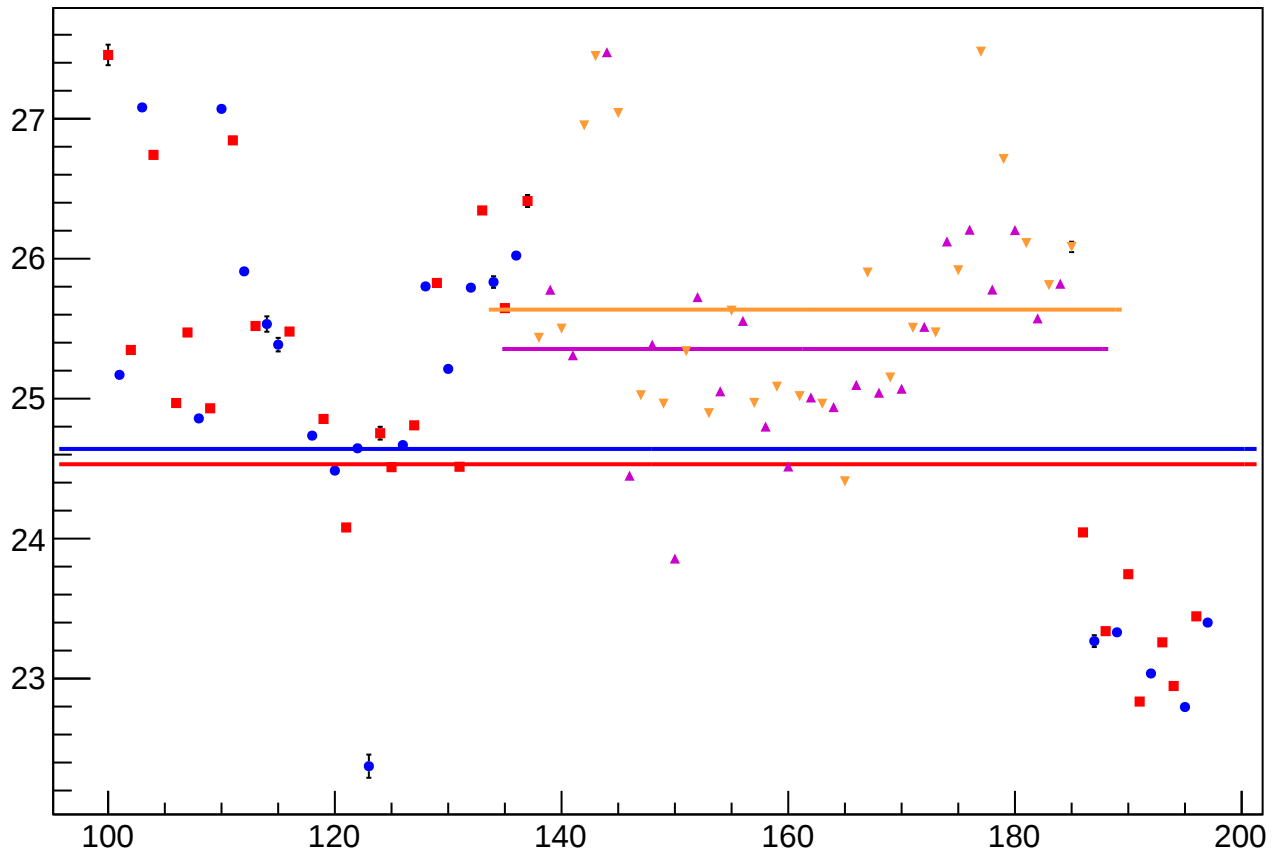
Right: 4.673 ± 5.362 χ^2/NDF : 42.3/47

In: -0.629 ± 4.817 χ^2/NDF : 43.2/44

Out: 5.796 ± 4.618 χ^2/NDF : 64.9/50

All: 2.718 ± 3.334 χ^2/NDF : 109.1/95

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.641 $\pm$ 0.006 χ^2 /NDF: 56546.9/21

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

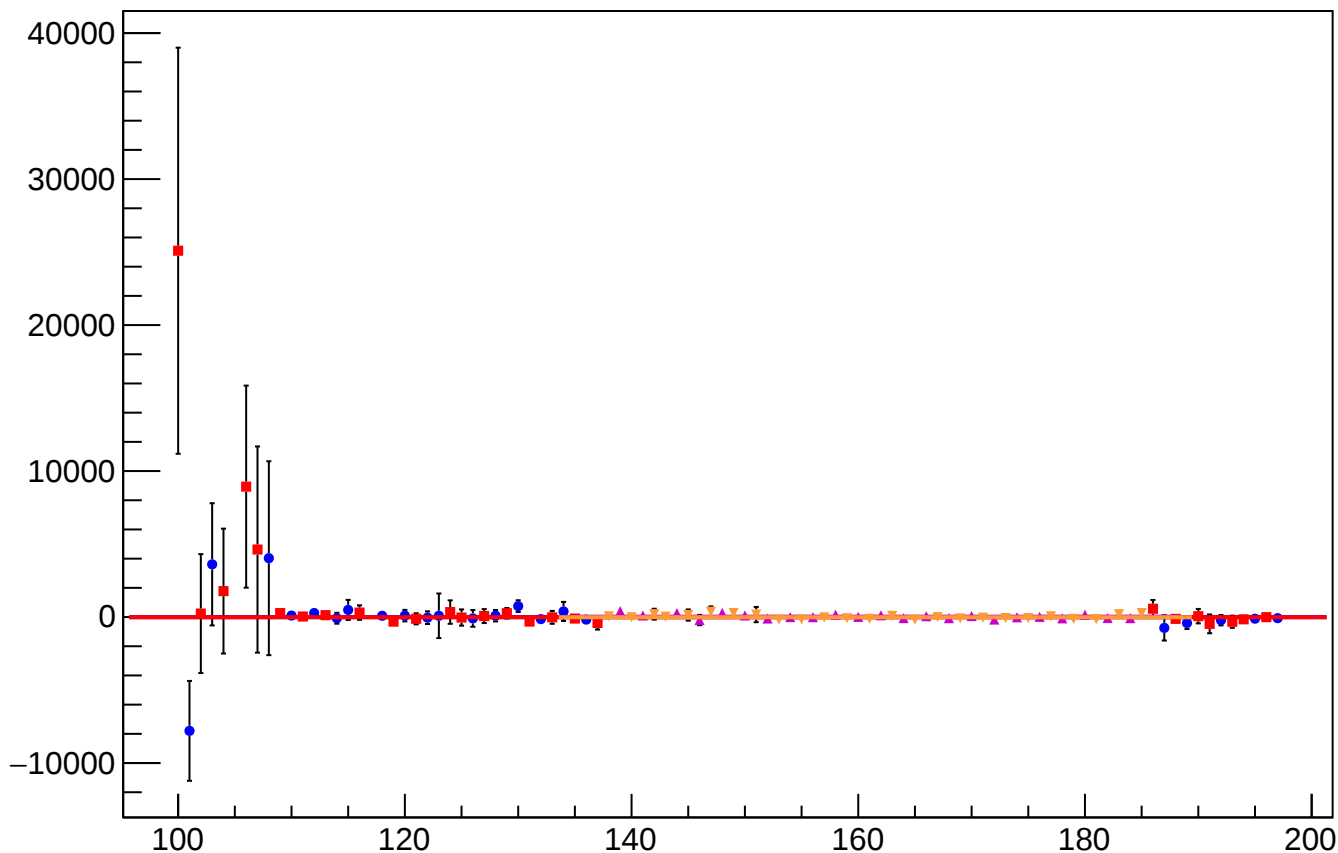
Right: 24.582 $\pm$ 0.004 χ^2 /NDF: 110903.6/47

In: 25.090 $\pm$ 0.003 χ^2 /NDF: 96561.4/44

Out: 25.192 $\pm$ 0.003 χ^2 /NDF: 116782.1/50

All: 25.144 $\pm$ 0.002 χ^2 /NDF: 213811.6/95

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -6.743+/-67.389 χ^2/NDF : 16.4/21

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -13.035+/-64.819 χ^2/NDF : 14.7/25

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

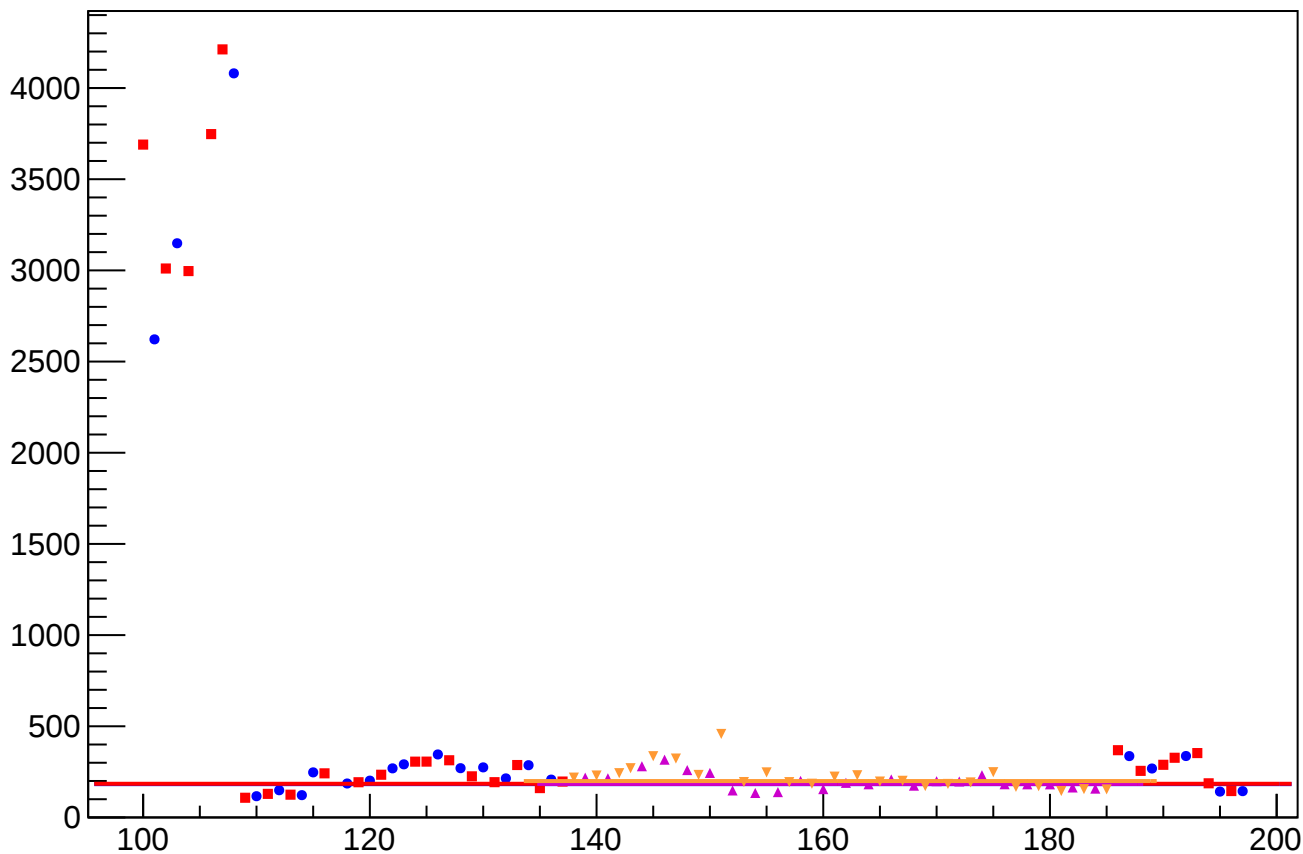
Right: -10.012+/-46.716 χ^2/NDF : 31.1/47

In: 16.203+/-37.923 χ^2/NDF : 24.1/44

Out: -12.897+/-38.687 χ^2/NDF : 22.6/50

All: 1.943+/-27.081 χ^2/NDF : 46.9/95

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.640+/-0.048 χ^2/NDF : 4371616.3/21

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

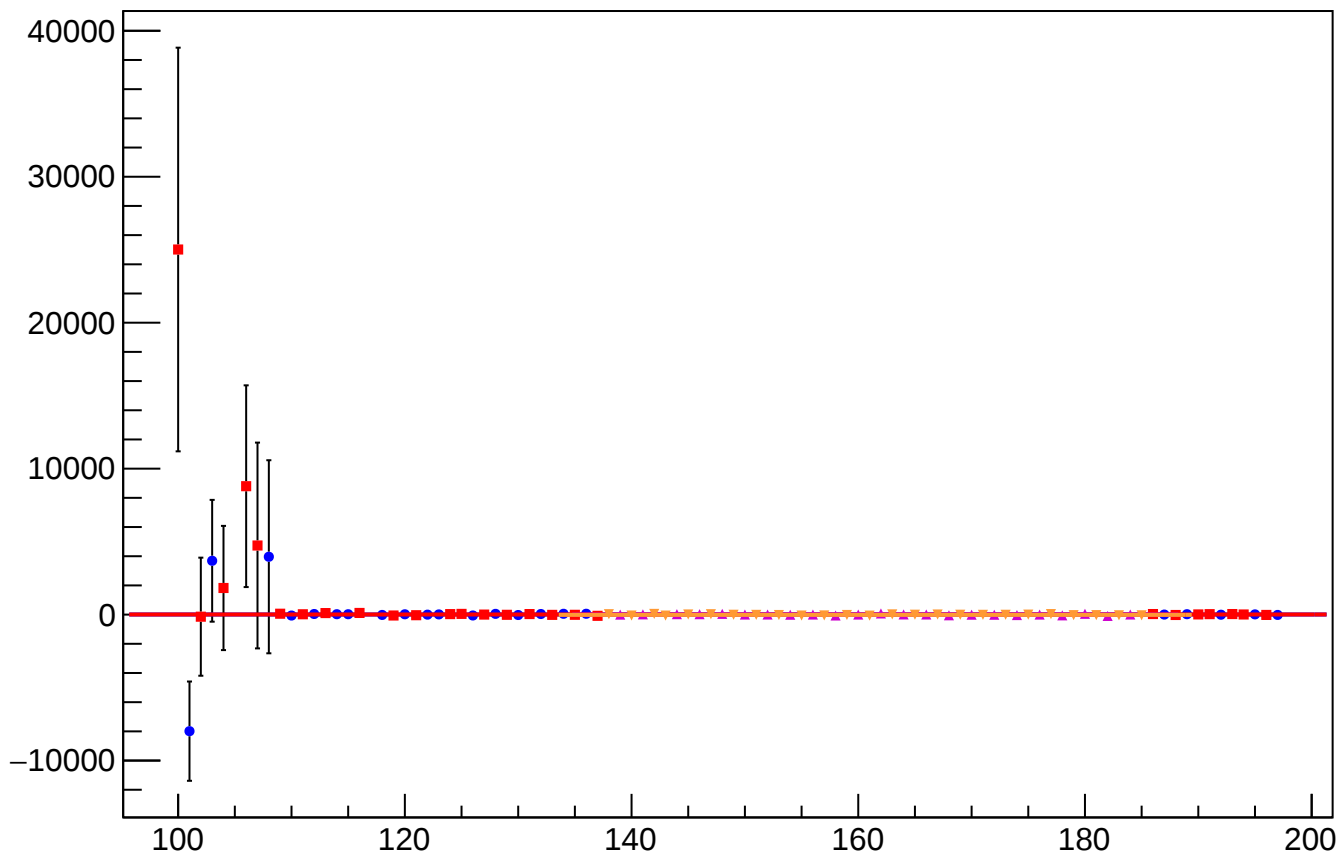
Right: 183.694+/-0.033 χ^2/NDF : 9571528.7/47

In: 183.591+/-0.027 χ^2/NDF :5795653.5/44

Out: 194.240+/-0.027 χ^2/NDF :7147236.9/50

All: 188.809+/-0.019 χ^2/NDF : 13020177.1/95

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.020+/-9.658 χ^2/NDF : 20.4/21

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

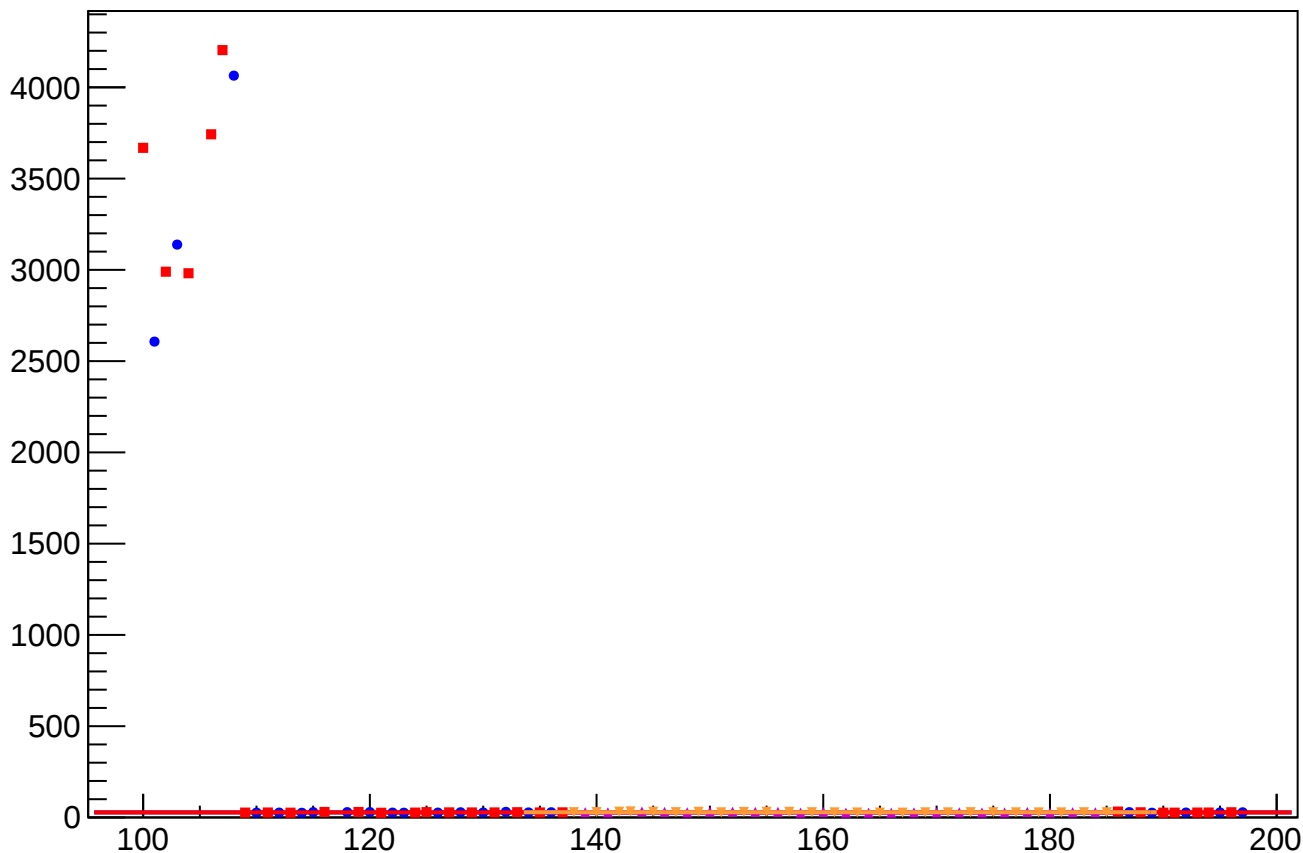
Right: 8.006+/-6.616 χ^2/NDF : 48.4/47

In: 3.052+/-5.604 χ^2/NDF : 53.1/44

Out: -8.267+/-5.388 χ^2/NDF : 55.8/50

All: -2.829+/-3.884 χ^2/NDF : 111.0/95

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.651 $\pm$ 0.007 χ^2 /NDF: 3034748.3/21

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

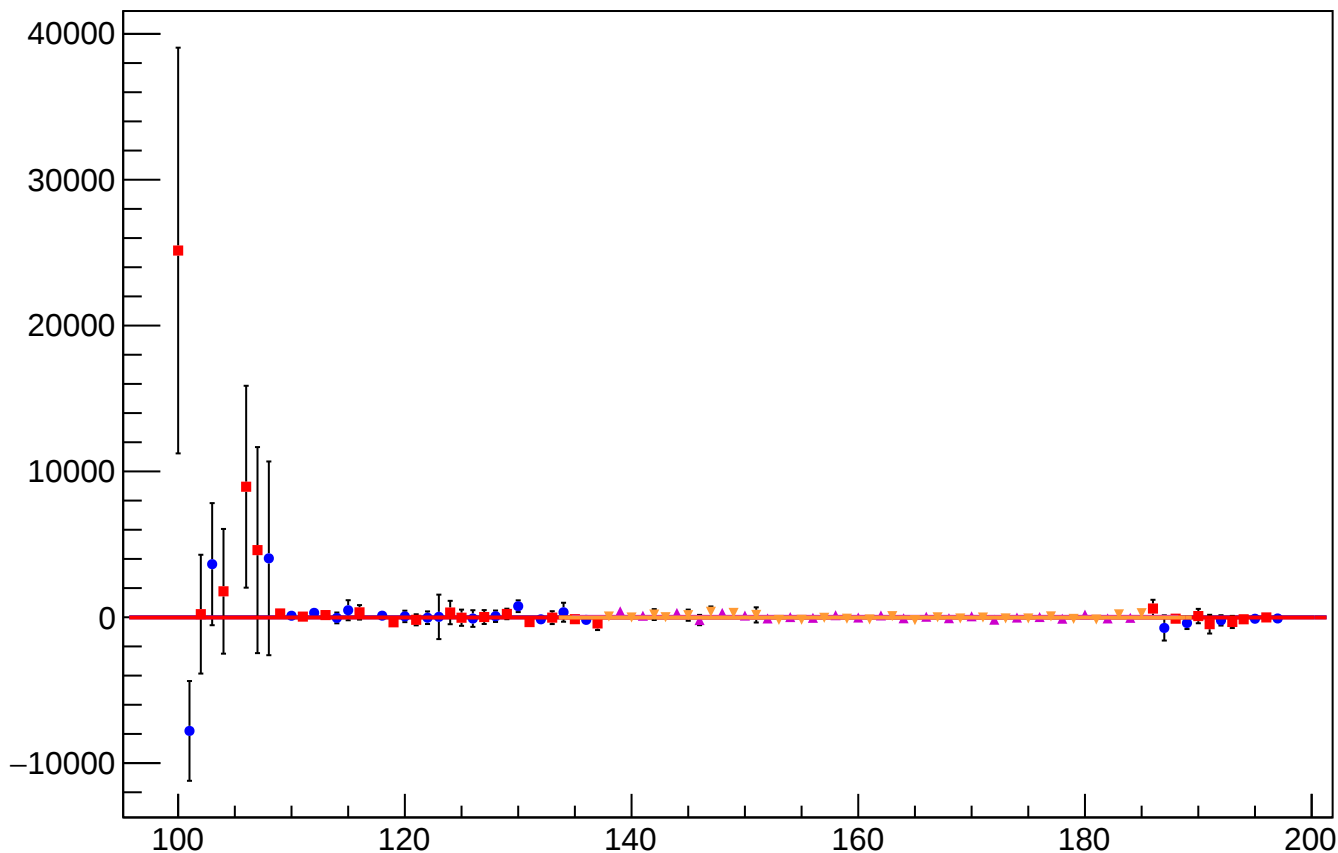
Right: 27.677 $\pm$ 0.005 χ^2 /NDF: 6534931.1/47

In: 28.329 $\pm$ 0.004 χ^2 /NDF:3174342.4/44

Out: 28.342 $\pm$ 0.004 χ^2 /NDF:3626069.3/50

All: 28.336 $\pm$ 0.003 χ^2 /NDF: 6800417.4/95

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.713 ± 67.188 $\chi^2/\text{NDF}: 16.6/21$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -16.570 ± 64.636 $\chi^2/\text{NDF}: 15.4/25$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

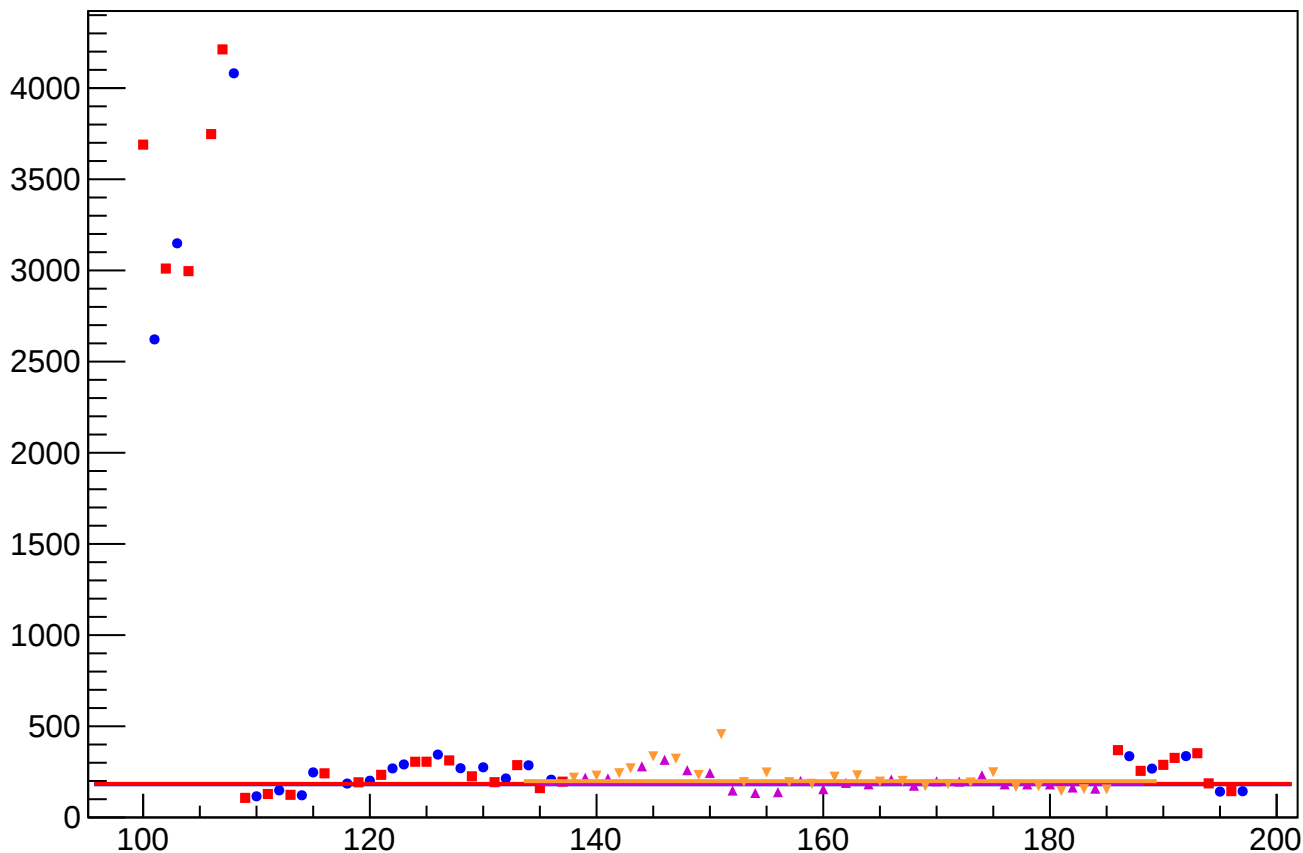
Right: -9.429 ± 46.581 $\chi^2/\text{NDF}: 32.0/47$

In: 17.901 ± 37.835 $\chi^2/\text{NDF}: 24.5/44$

Out: -15.870 ± 38.592 $\chi^2/\text{NDF}: 24.1/50$

All: 1.350 ± 27.017 $\chi^2/\text{NDF}: 49.0/95$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.017 $\pm$ 0.048 χ^2 /NDF: 4384795.6/21

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

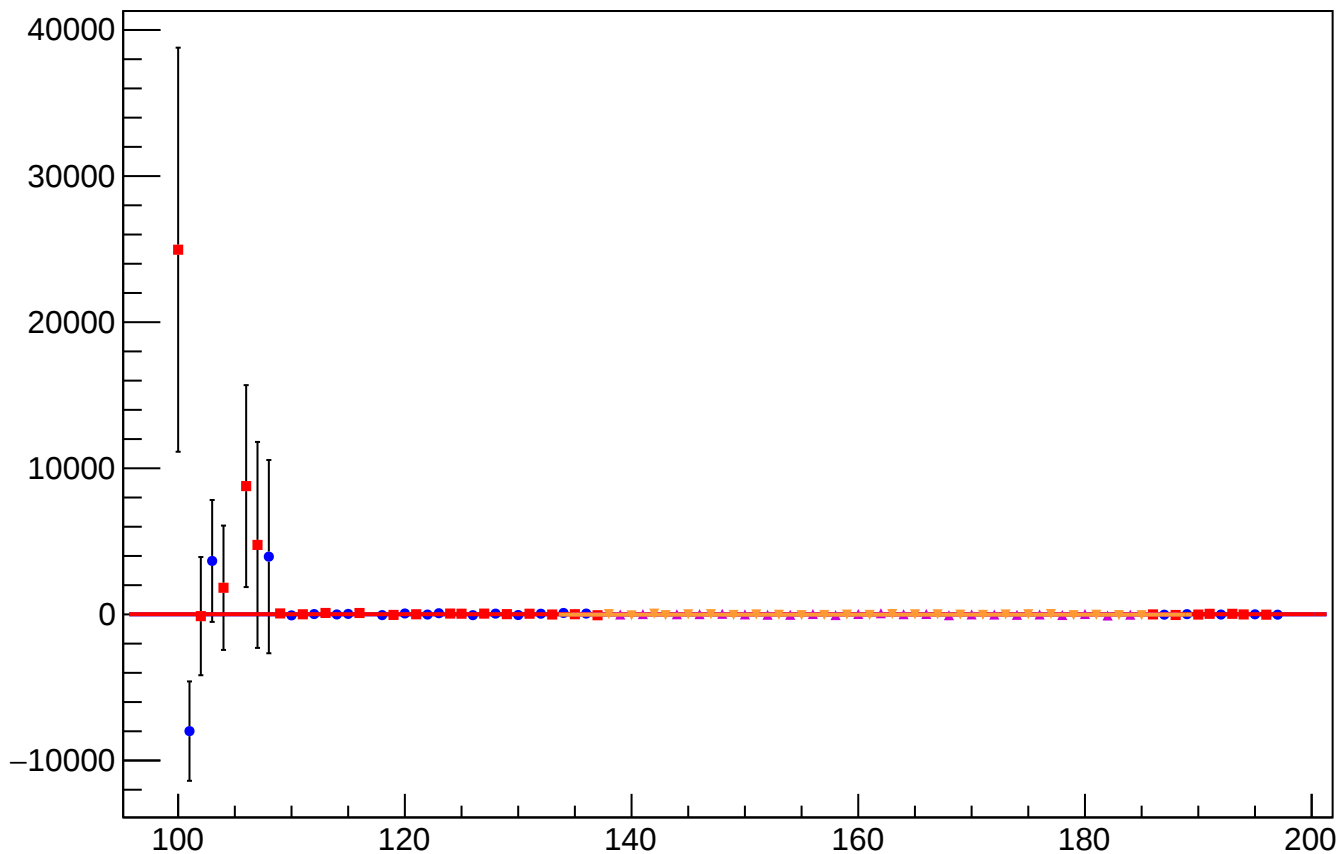
Right: 183.074 $\pm$ 0.033 χ^2 /NDF: 9602775.3/47

In: 183.144 $\pm$ 0.027 χ^2 /NDF:5808515.5/44

Out: 193.732 $\pm$ 0.027 χ^2 /NDF:7167063.2/50

All: 188.333 $\pm$ 0.019 χ^2 /NDF: 13052339.1/95

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.040+/-9.678 χ^2/NDF : 23.9/21

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

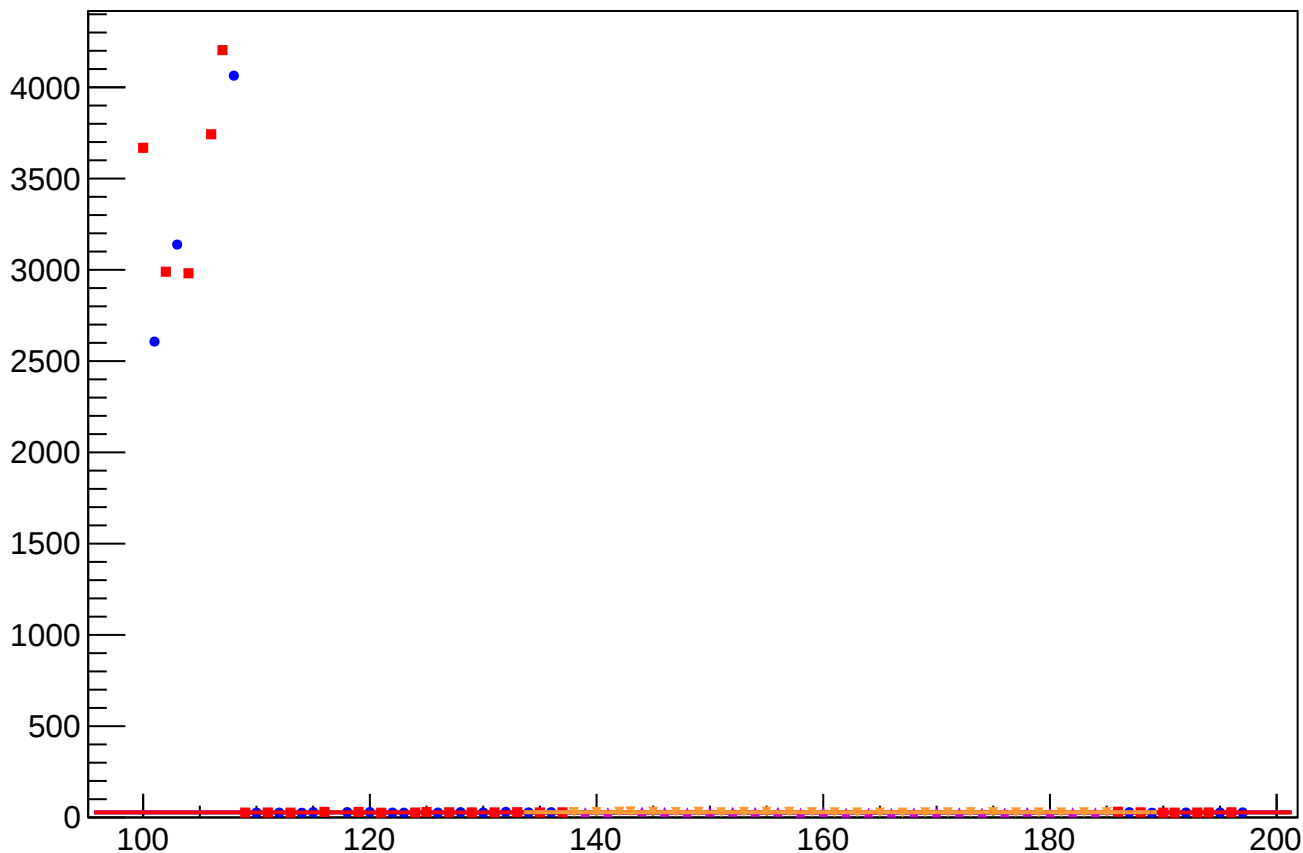
Right: 8.752+/-6.634 χ^2/NDF : 48.3/47

In: 0.561+/-5.623 χ^2/NDF : 50.4/44

Out: -4.844+/-5.410 χ^2/NDF : 47.7/50

All: -2.246+/-3.899 χ^2/NDF : 98.5/95

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.705 $\pm$ 0.007 χ^2 /NDF: 3036634.3/21

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

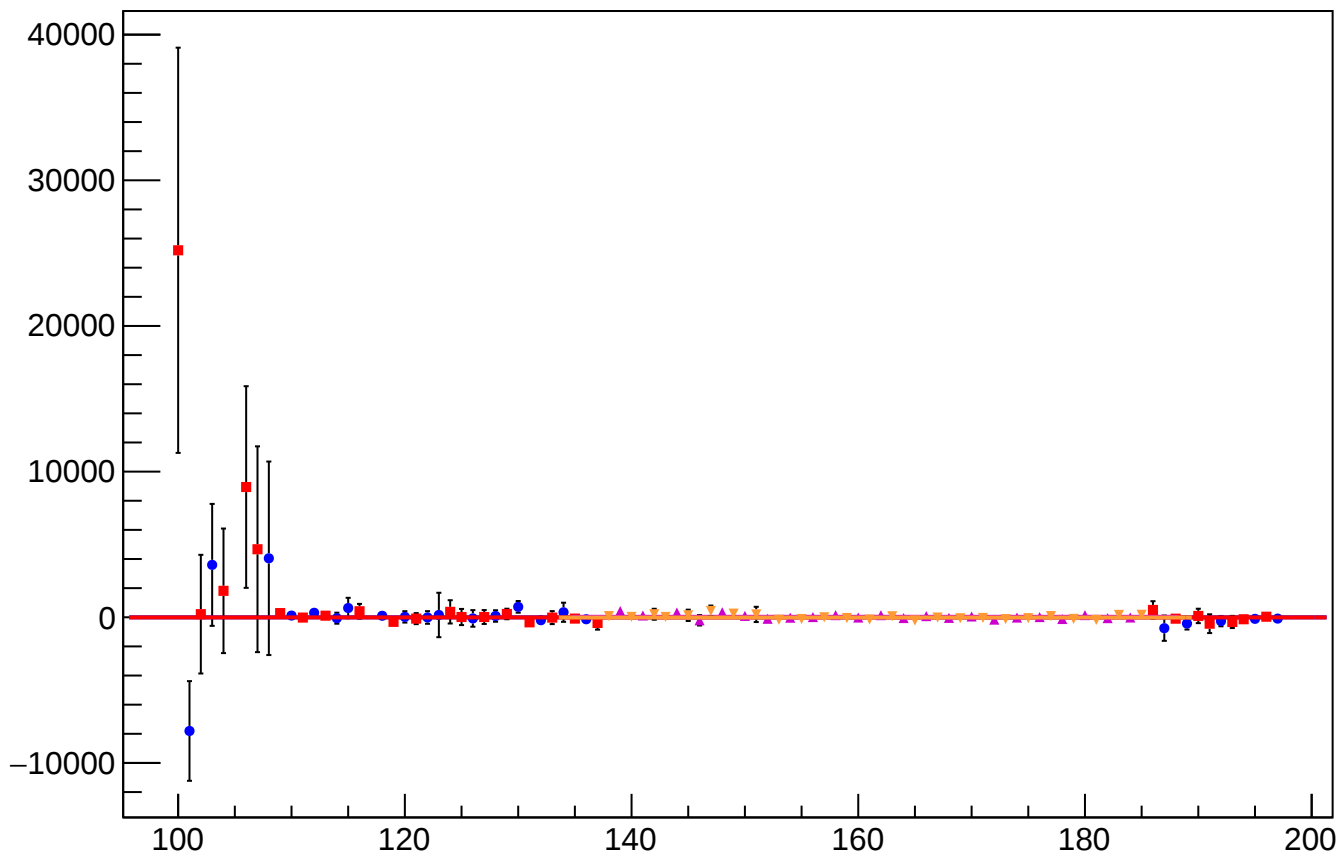
Right: 27.748 $\pm$ 0.005 χ^2 /NDF: 6534461.6/47

In: 28.425 $\pm$ 0.004 χ^2 /NDF: 3182739.1/44

Out: 28.450 $\pm$ 0.004 χ^2 /NDF: 3636193.4/50

All: 28.438 $\pm$ 0.003 χ^2 /NDF: 6818952.9/95

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -4.367 ± 67.748 $\chi^2/\text{NDF}: 17.0/21$

Left Out: -15.548 ± 48.688 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -10.161 ± 65.308 $\chi^2/\text{NDF}: 14.6/25$

Left In: 31.170 ± 46.359 $\chi^2/\text{NDF}: 8.2/22$

Left: 8.955 ± 33.574 $\chi^2/\text{NDF}: 16.6/47$

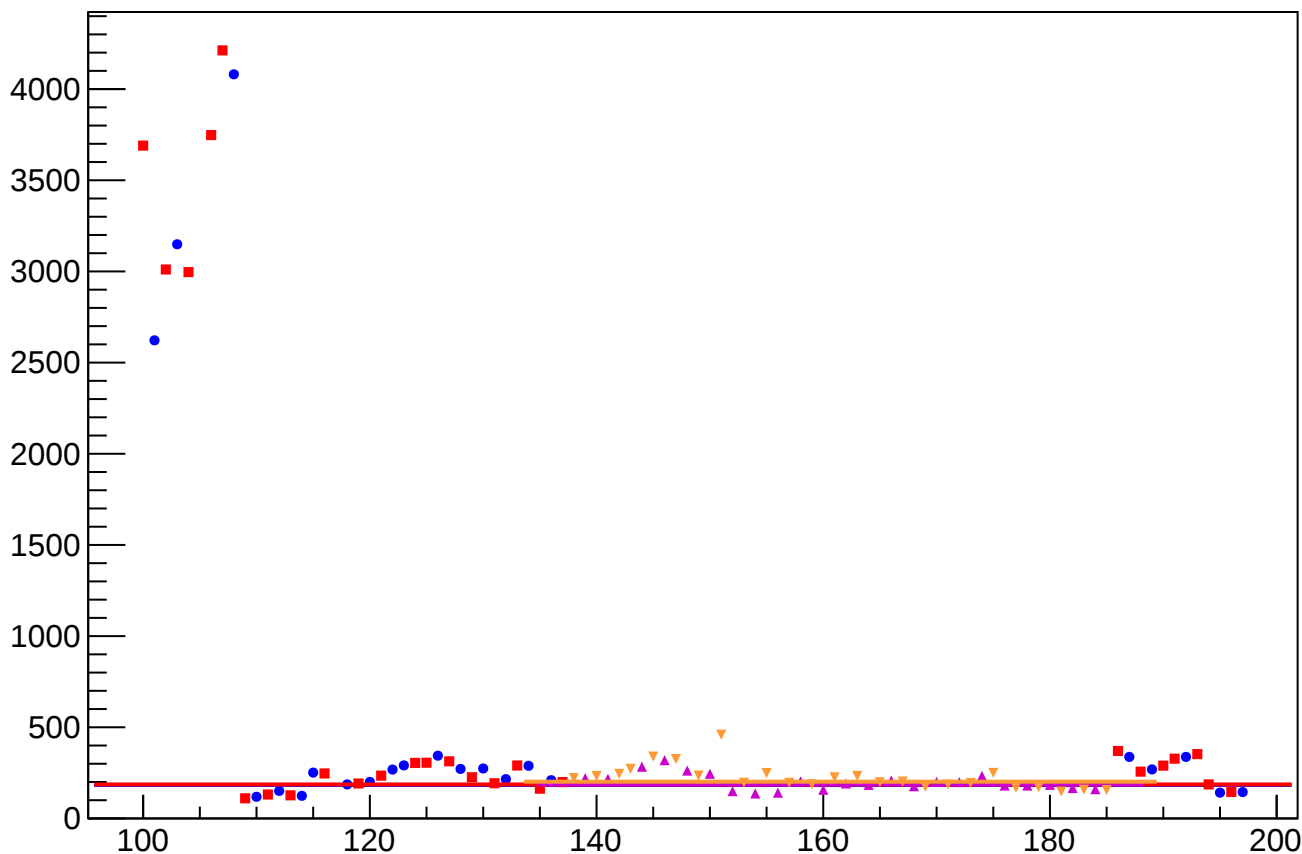
Right: -7.370 ± 47.019 $\chi^2/\text{NDF}: 31.6/47$

In: 19.837 ± 38.259 $\chi^2/\text{NDF}: 25.3/44$

Out: -13.623 ± 39.034 $\chi^2/\text{NDF}: 22.6/50$

All: 3.442 ± 27.323 $\chi^2/\text{NDF}: 48.3/95$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 183.753+/-0.048 χ^2/NDF : 4347233.3/21

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 186.423+/-0.046 χ^2/NDF : 5141281.5/25

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

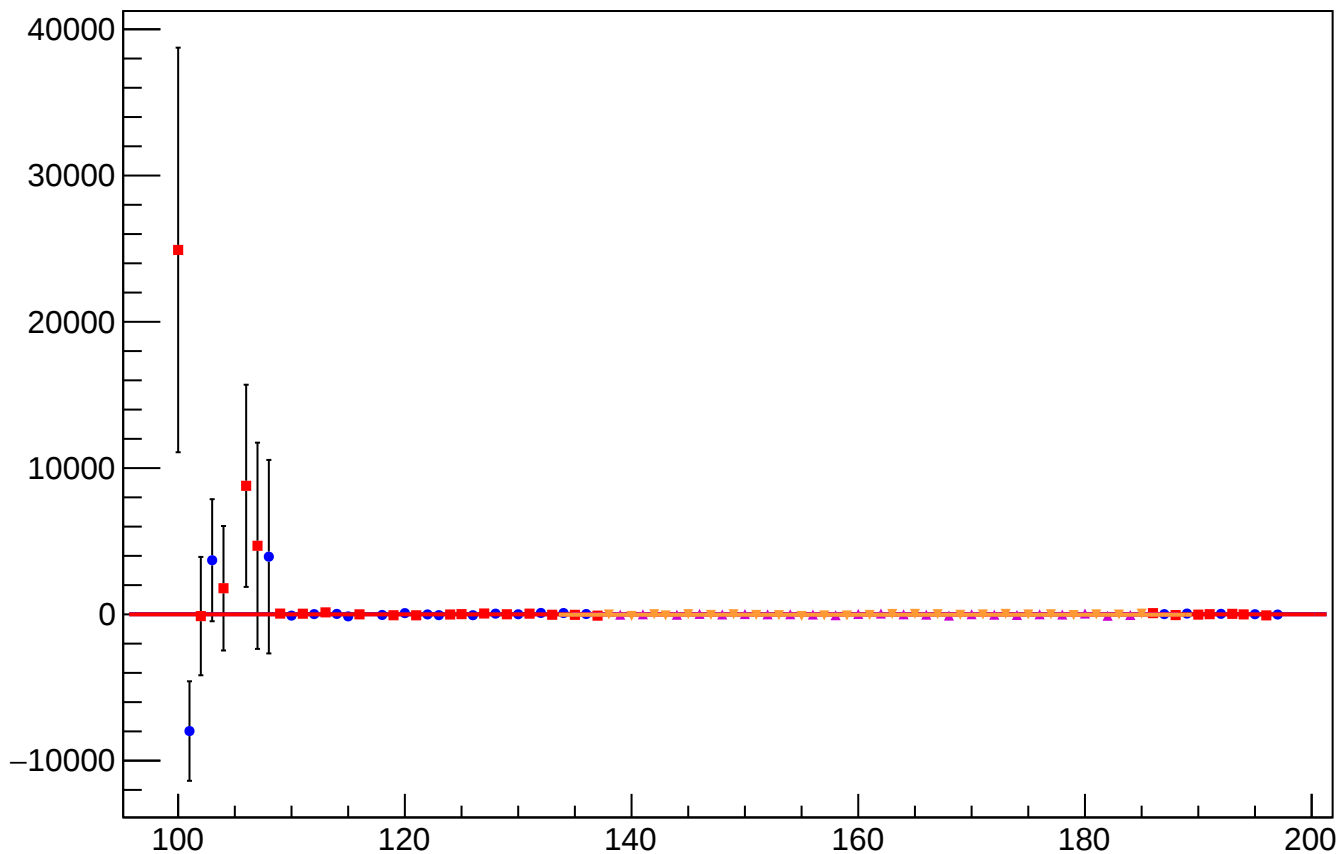
Right: 185.137+/-0.033 χ^2/NDF : 9490124.9/47

In: 185.356+/-0.027 χ^2/NDF : 5740205.6/44

Out: 196.178+/-0.028 χ^2/NDF : 7068165.0/50

All: 190.659+/-0.019 χ^2/NDF : 12886775.2/95

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.830+/-11.802 χ^2/NDF : 22.0/21

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

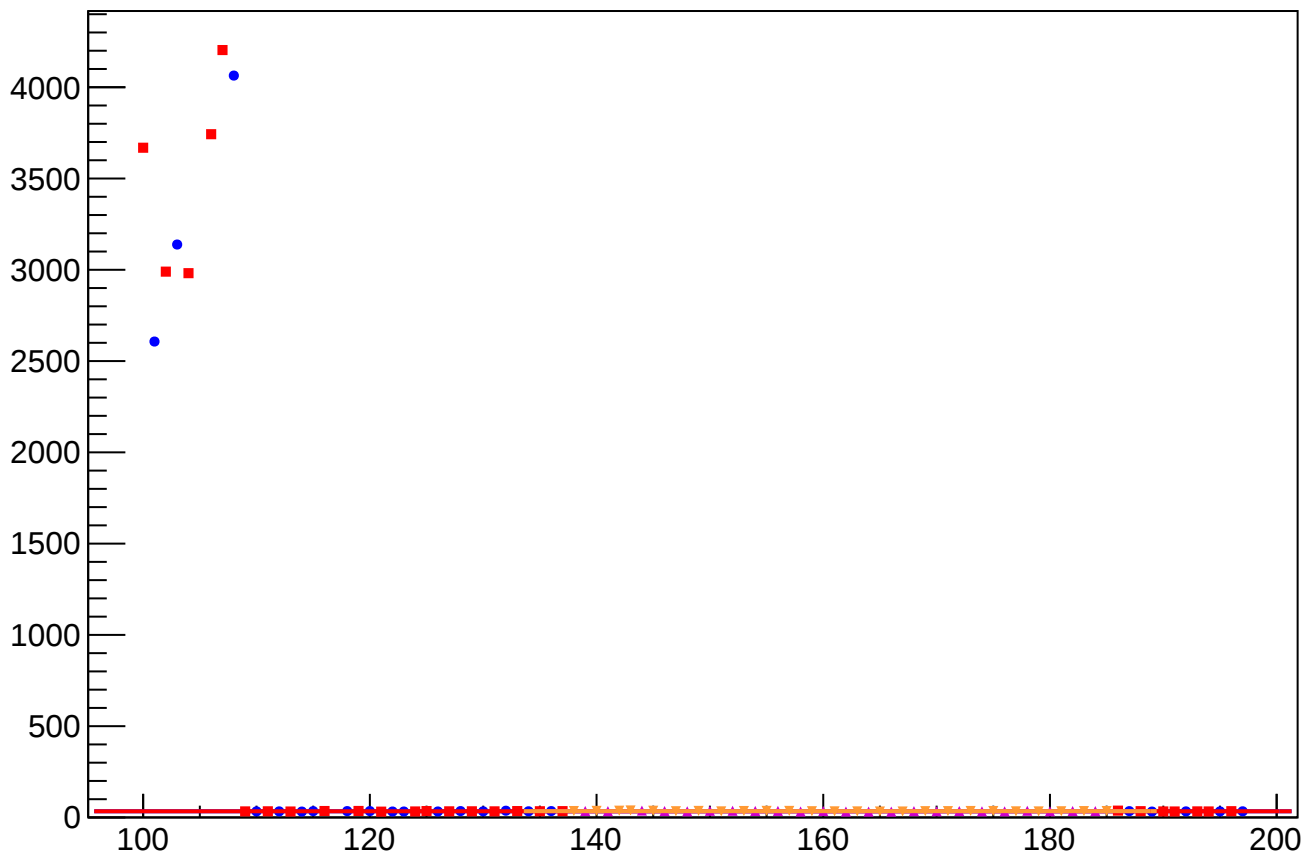
Right: 6.277+/-8.083 χ^2/NDF : 52.2/47

In: -0.092+/-6.794 χ^2/NDF : 44.6/44

Out: -14.807+/-6.523 χ^2/NDF : 58.9/50

All: -7.749+/-4.705 χ^2/NDF : 106.0/95

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.817 $\pm$ 0.008 χ^2 /NDF: 3011090.8/21

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

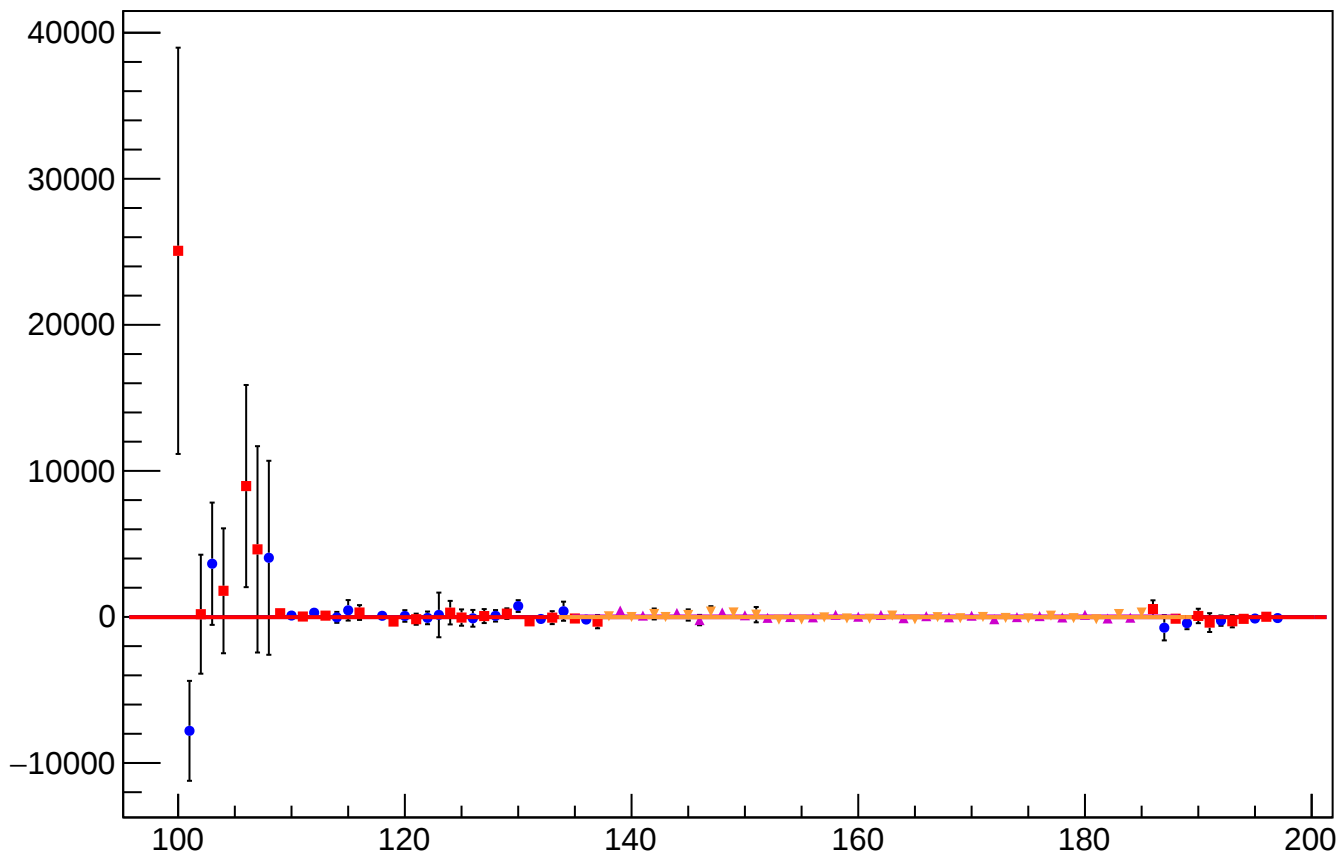
Right: 33.855 $\pm$ 0.006 χ^2 /NDF: 6473514.6/47

In: 34.397 $\pm$ 0.005 χ^2 /NDF: 3078637.3/44

Out: 34.364 $\pm$ 0.005 χ^2 /NDF: 3525921.6/50

All: 34.380 $\pm$ 0.003 χ^2 /NDF: 6604584.7/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -8.493+/-67.518 χ^2/NDF : 16.5/21

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

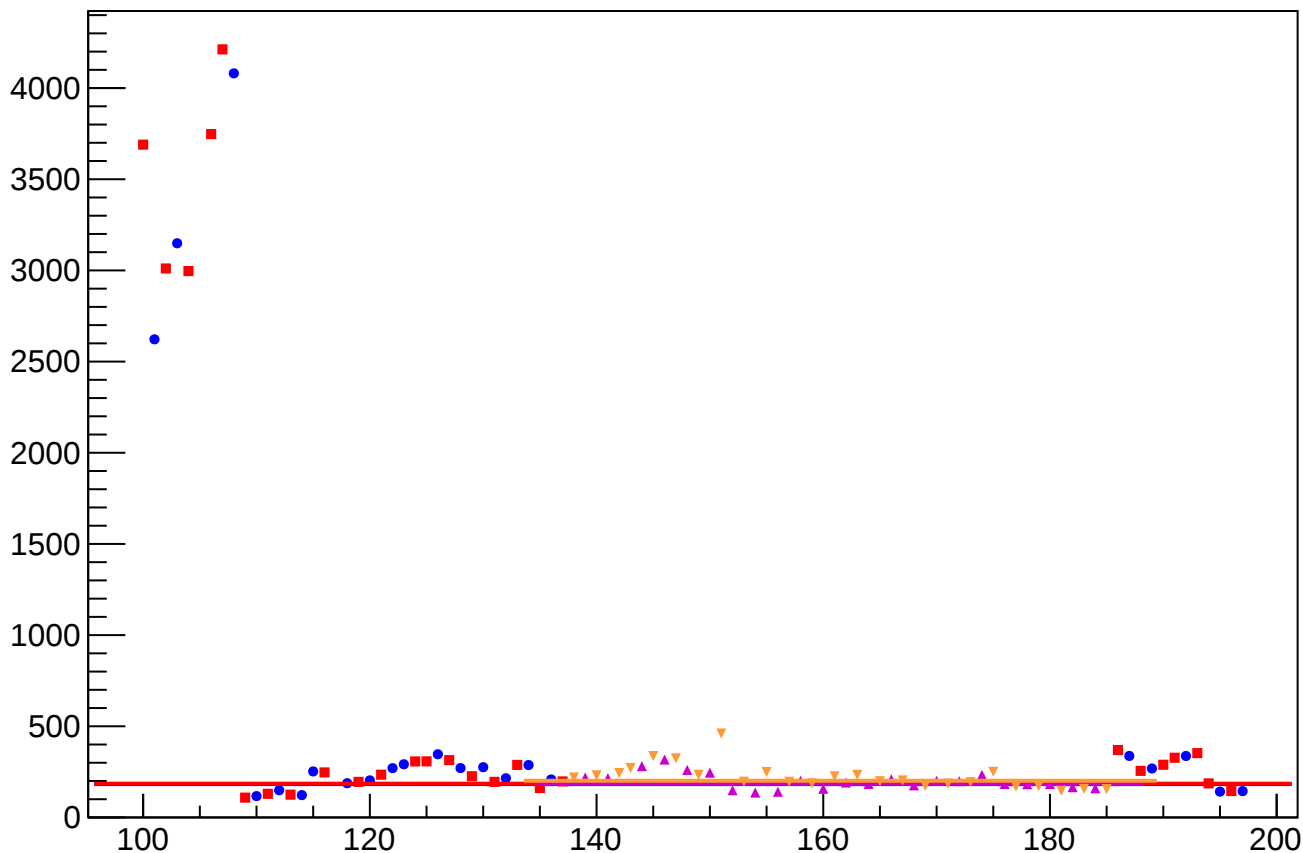
Right: -12.476+/-46.818 χ^2/NDF : 29.8/47

In: 20.497+/-38.182 χ^2/NDF : 24.2/44

Out: -11.518+/-38.926 χ^2/NDF : 21.9/50

All: 4.798+/-27.258 χ^2/NDF : 46.4/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 182.953+/-0.048 χ^2/NDF : 4379203.2/21

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

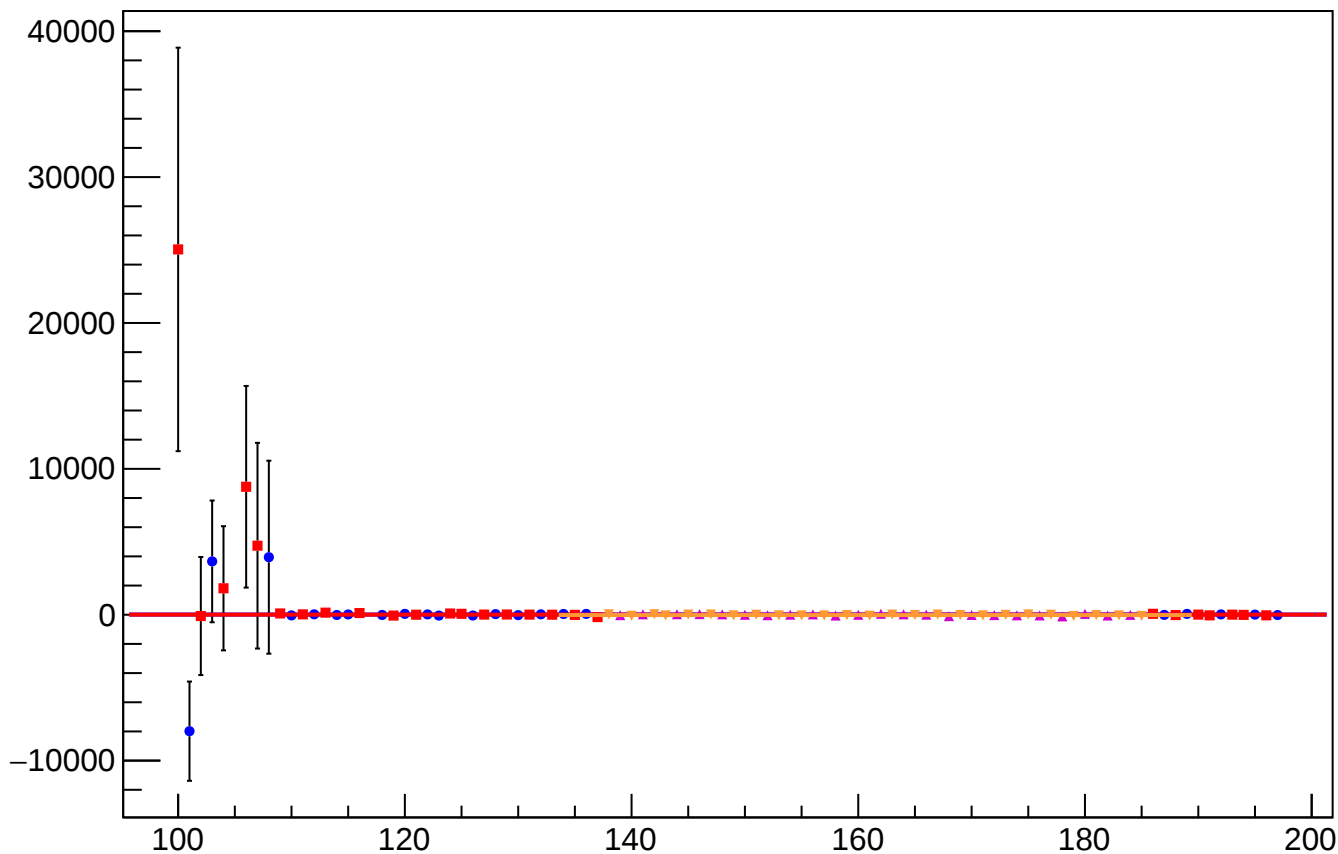
Right: 184.091+/-0.033 χ^2/NDF : 9578725.2/47

In: 184.926+/-0.027 χ^2/NDF : 5763486.6/44

Out: 195.500+/-0.028 χ^2/NDF : 7128787.9/50

All: 190.111+/-0.019 χ^2/NDF : 12967484.6/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.545 $\pm$ 10.718 χ^2 /NDF: 16.7/21

Left Out: -22.879 $\pm$ 7.340 χ^2 /NDF:18.8/24

Right Out: 6.924 $\pm$ 10.067 χ^2 /NDF: 33.9/25

Left In: -5.943 $\pm$ 7.550 χ^2 /NDF:38.3/22

Left: -14.649 $\pm$ 5.263 χ^2 /NDF: 59.7/47

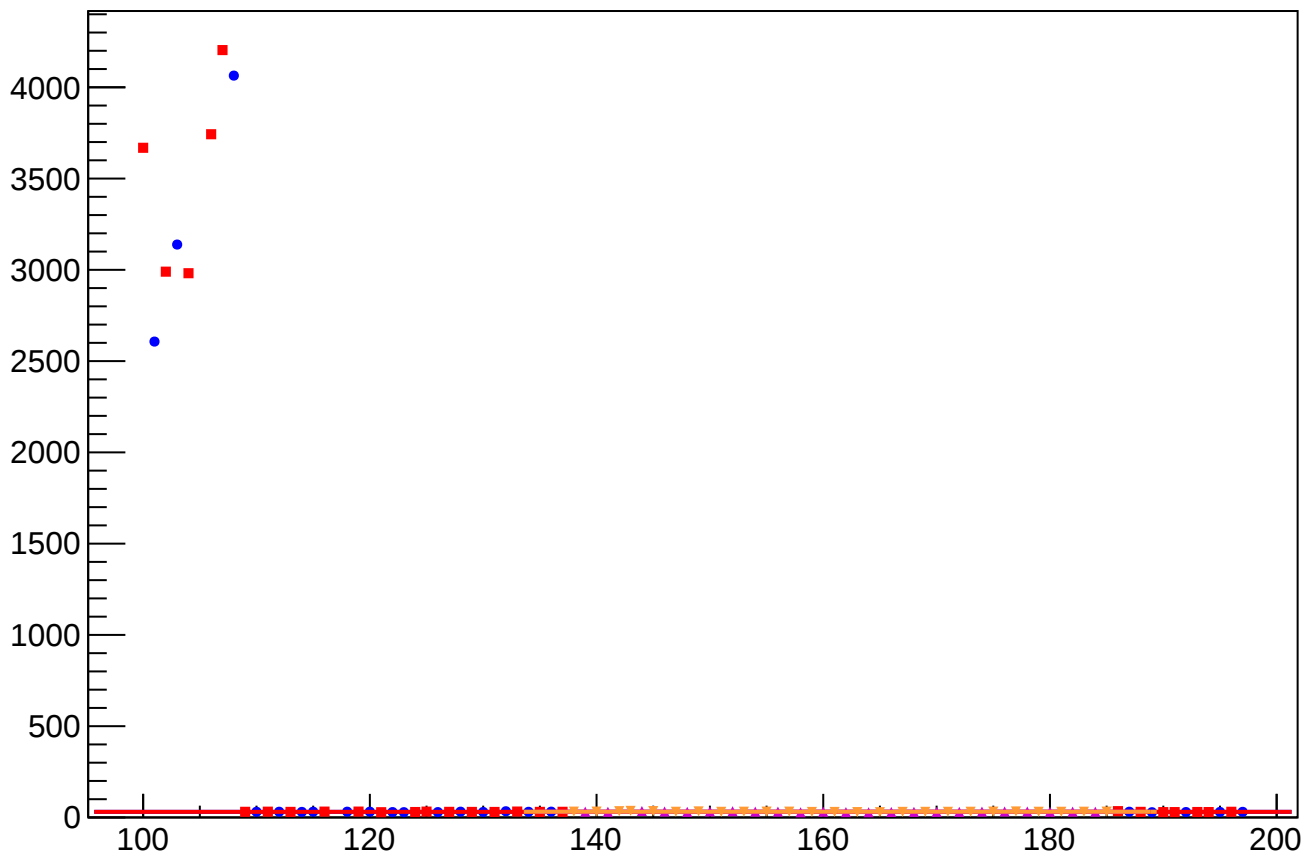
Right: 9.559 $\pm$ 7.338 χ^2 /NDF: 50.7/47

In: 0.188 $\pm$ 6.172 χ^2 /NDF:57.0/44

Out: -12.534 $\pm$ 5.931 χ^2 /NDF:58.3/50

All: -6.426 $\pm$ 4.277 χ^2 /NDF: 117.6/95

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.701 $\pm$ 0.008 χ^2 /NDF: 3023814.4/21

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

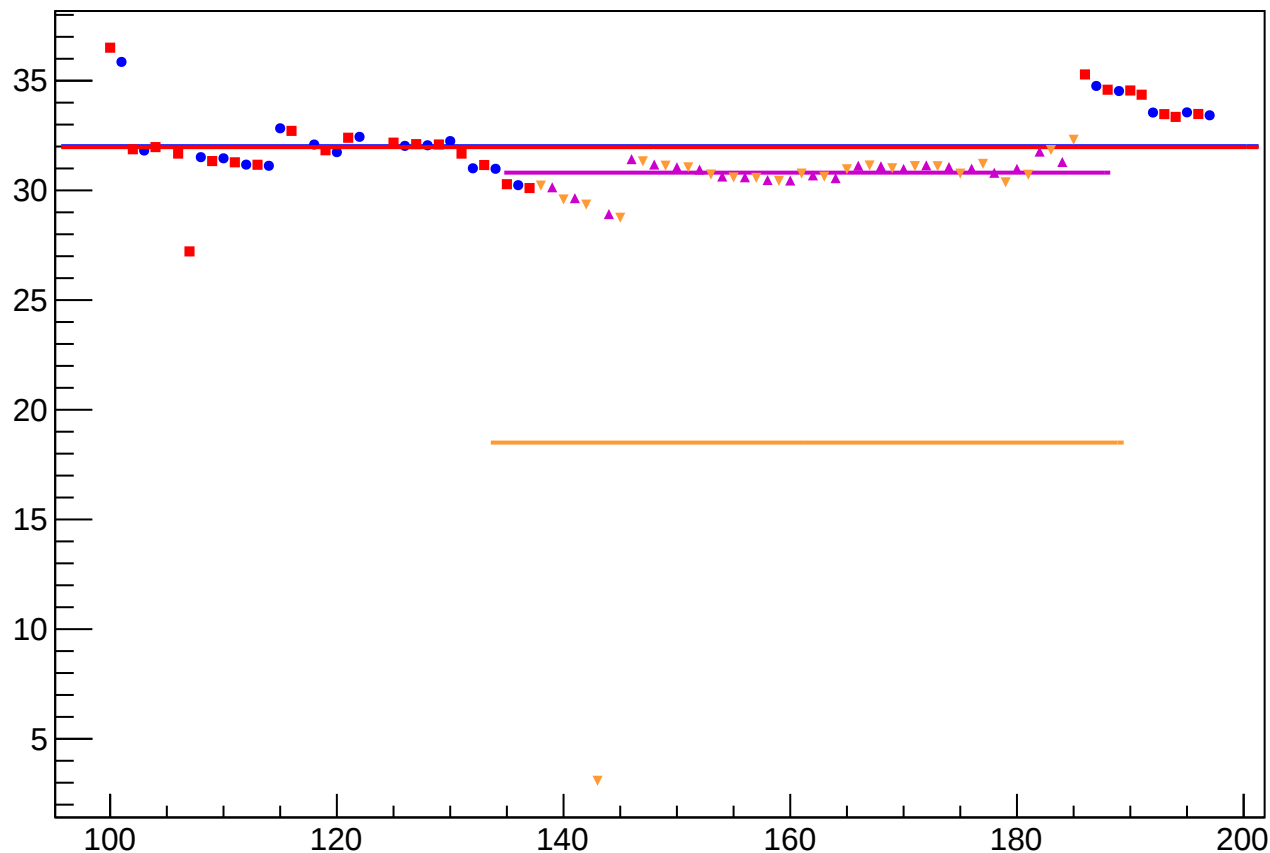
Right: 30.716 $\pm$ 0.005 χ^2 /NDF: 6499590.9/47

In: 31.225 $\pm$ 0.004 χ^2 /NDF: 3118930.4/44

Out: 31.221 $\pm$ 0.004 χ^2 /NDF: 3565500.1/50

All: 31.223 $\pm$ 0.003 χ^2 /NDF: 6684431.0/95

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.014+/-0.000 χ^2/NDF : 2025035730.1/20

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

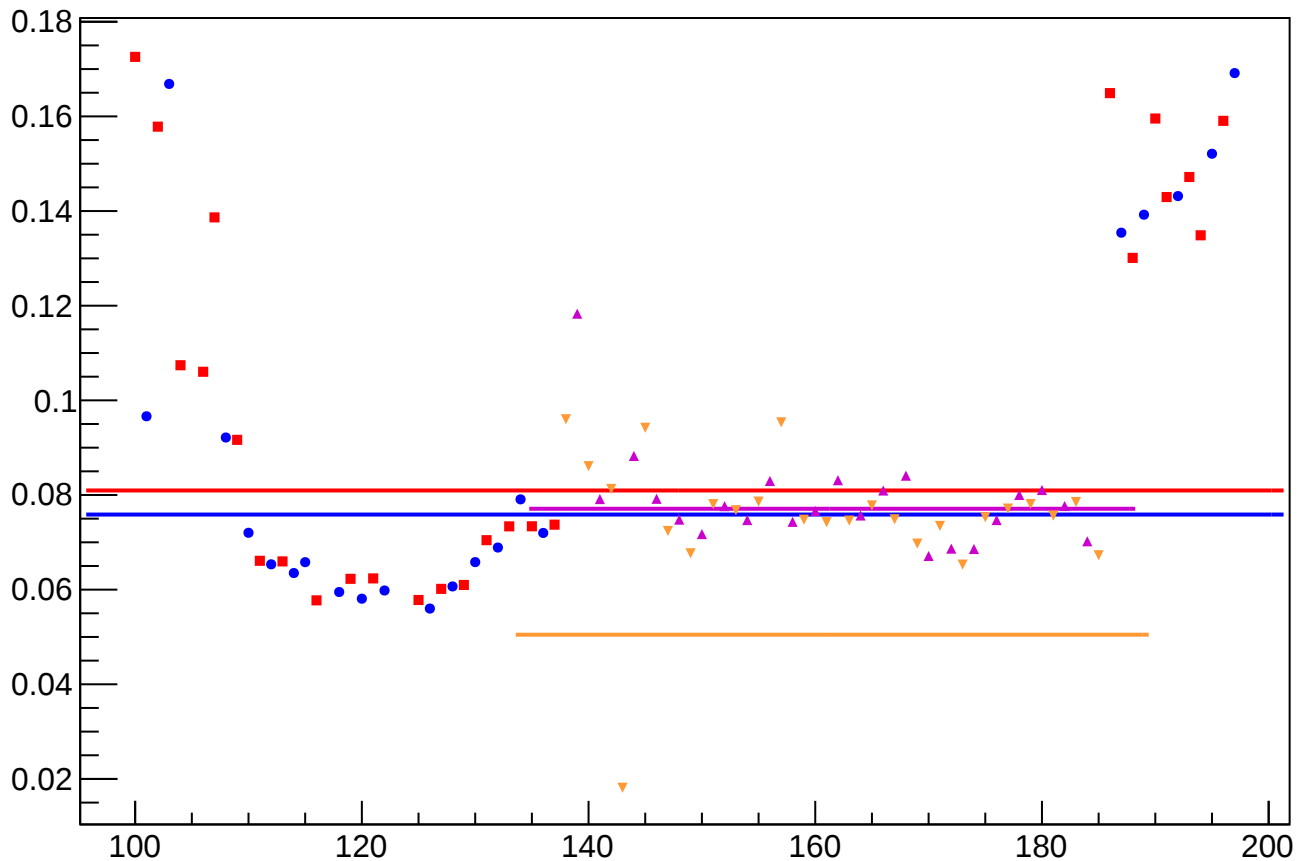
Right: 31.992+/-0.000 χ^2/NDF : 3912927806.1/45

In: 31.219+/-0.000 χ^2/NDF : 4163942070.4/43

Out: 21.444+/-0.000 χ^2/NDF : 1138778722272.0/49

All: 25.248+/-0.000 χ^2/NDF : 1378889776377.0/100

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.076 $\pm$ 0.000 χ^2 /NDF: 2246677.1/20

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

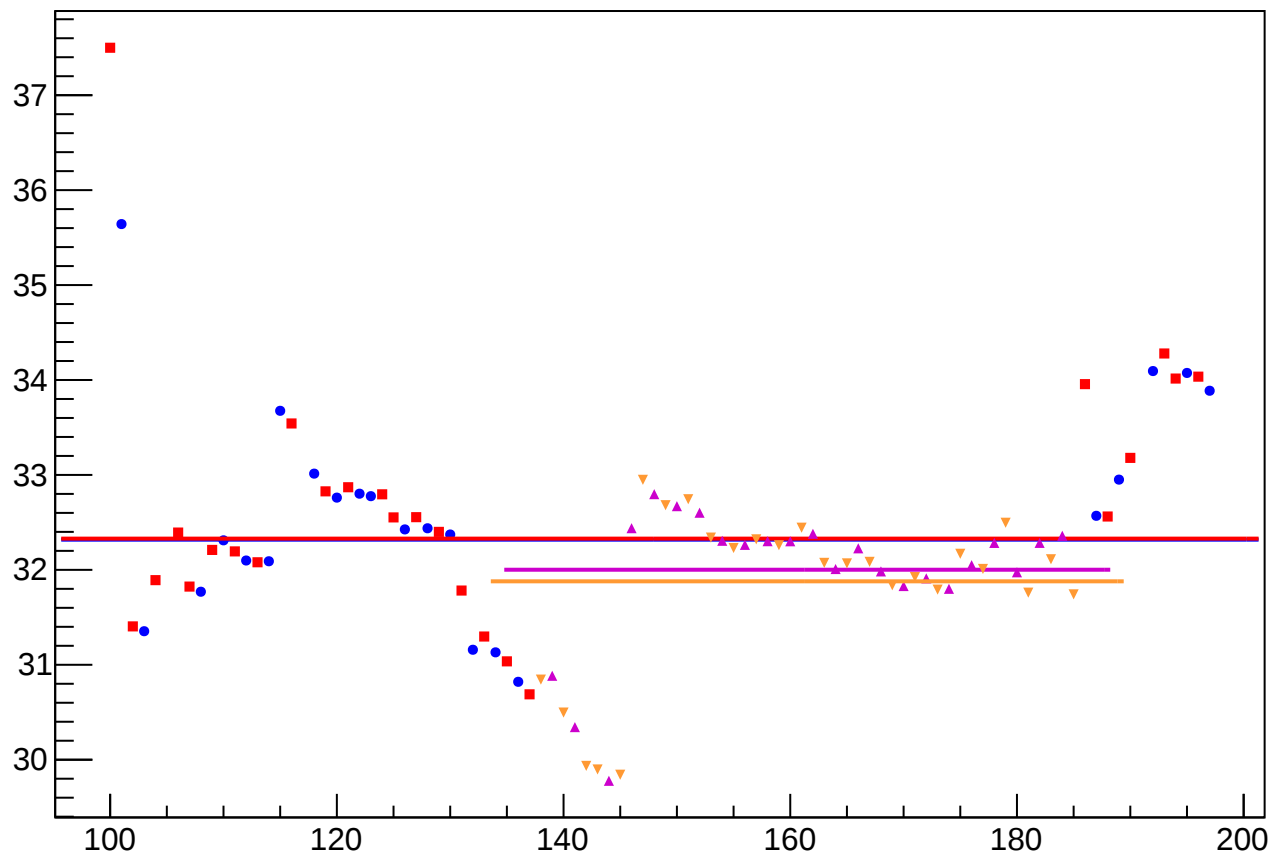
Right: 0.078 $\pm$ 0.000 χ^2 /NDF: 4988633.2/45

In: 0.077 $\pm$ 0.000 χ^2 /NDF:2575240.2/43

Out: 0.057 $\pm$ 0.000 χ^2 /NDF:13260867.6/49

All: 0.065 $\pm$ 0.000 χ^2 /NDF: 17722361.0/93

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.318 $\pm$ 0.000 χ^2 /NDF: 1167260775.4/21

Left Out: 31.879 $\pm$ 0.000 χ^2 /NDF: 1976281391.1/24

Right Out: 32.329 $\pm$ 0.000 χ^2 /NDF: 684735088.6/24

Left In: 32.001 $\pm$ 0.000 χ^2 /NDF: 1411110671.9/22

Left: 31.939 $\pm$ 0.000 χ^2 /NDF: 3408370857.8/47

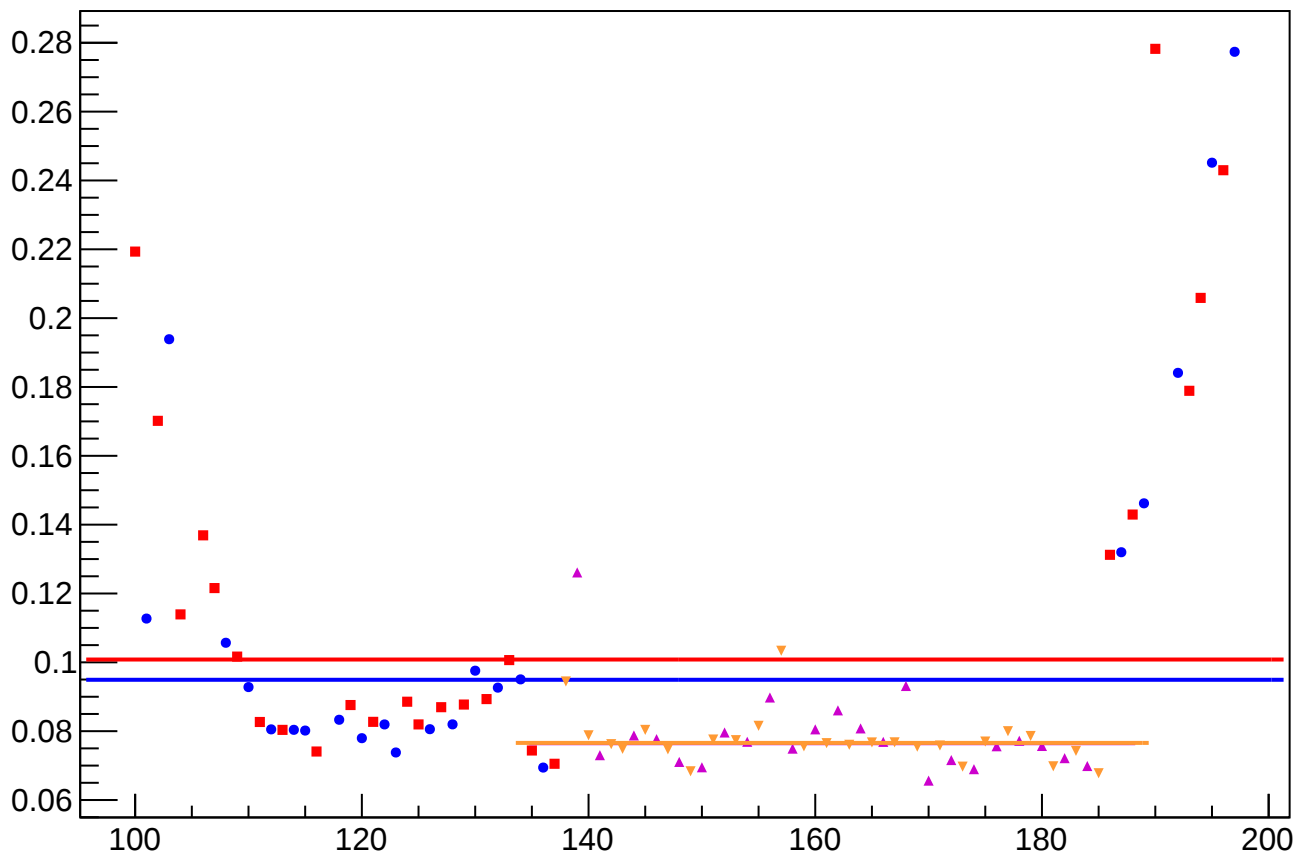
Right: 32.324 $\pm$ 0.000 χ^2 /NDF: 1852047221.2/46

In: 32.077 $\pm$ 0.000 χ^2 /NDF: 2644006588.8/44

Out: 31.985 $\pm$ 0.000 χ^2 /NDF: 2797759185.1/49

All: 32.030 $\pm$ 0.000 χ^2 /NDF: 5457321006.9/99

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.095+/-0.000 χ^2/NDF : 2416773.9/21

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

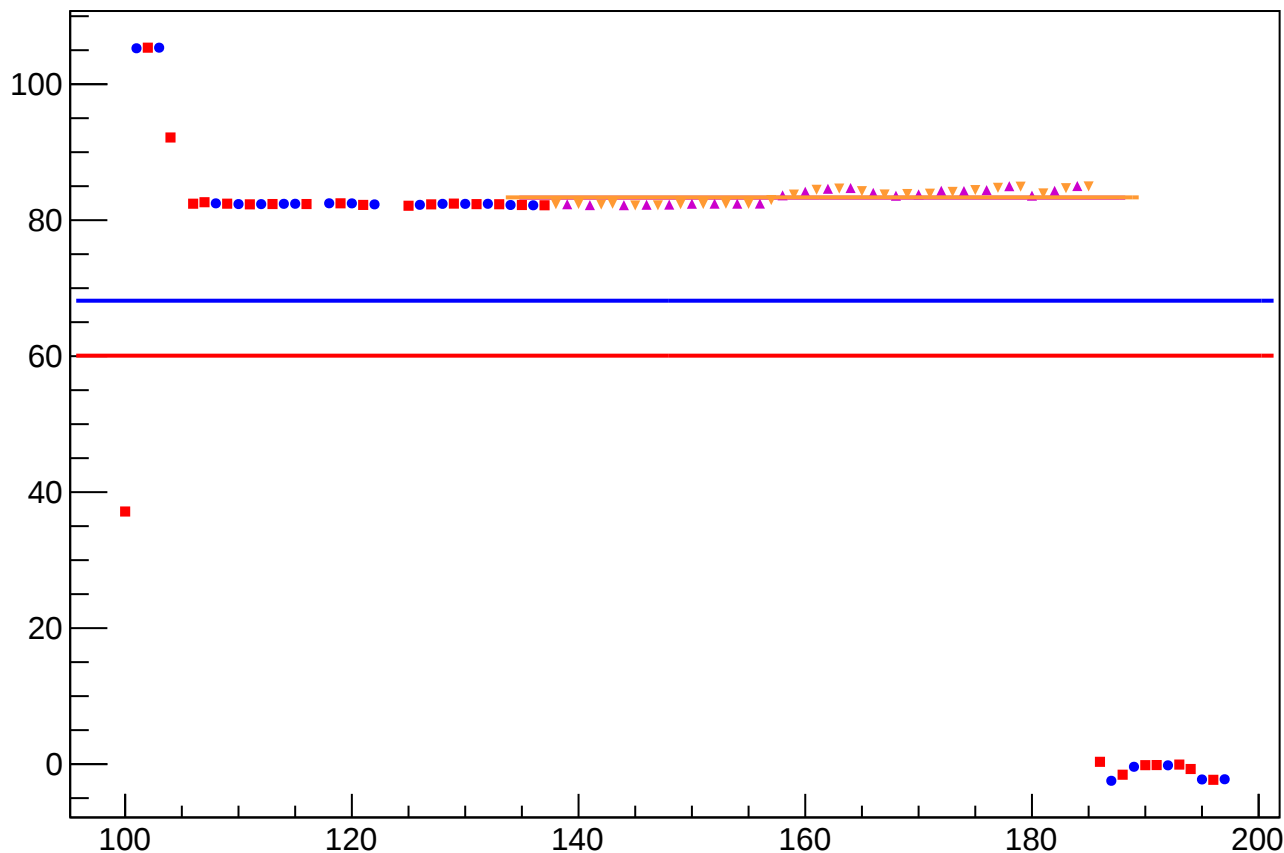
Right: 0.098+/-0.000 χ^2/NDF : 4837363.2/46

In: 0.081+/-0.000 χ^2/NDF : 3293768.3/44

Out: 0.082+/-0.000 χ^2/NDF : 3393376.0/49

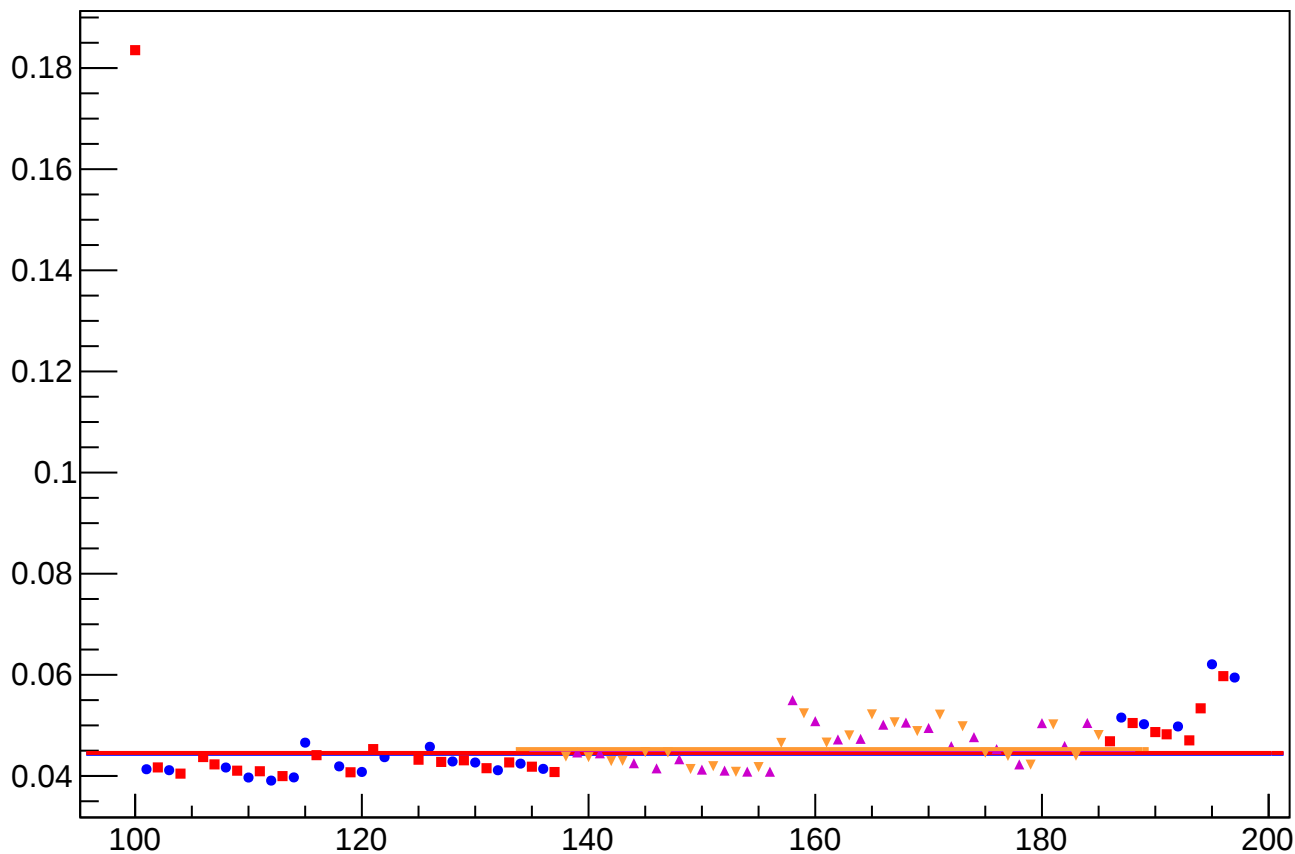
All: 0.082+/-0.000 χ^2/NDF : 6694303.6/94

yield_dsl_mean vs Slug, Sign Corrected



Right In: 68.156+/-0.000 χ^2/NDF : 6325914552134.7/20
 Left Out: 83.355+/-0.000 χ^2/NDF : 9142393022.8/24
 Right Out: 60.074+/-0.000 χ^2/NDF : 8463683326301.2/24
 Left In: 83.309+/-0.000 χ^2/NDF : 8421247810.9/22
 Left: 83.332+/-0.000 χ^2/NDF : 17572666767.1/47
 Right: 63.827+/-0.000 χ^2/NDF : 14955840004154.3/20
 In: 77.801+/-0.000 χ^2/NDF : 7028669402638.2/43
 Out: 74.357+/-0.000 χ^2/NDF : 10295544791085.2/43
 All: 76.008+/-0.000 χ^2/NDF : 1740488208180.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 333217.0/20

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

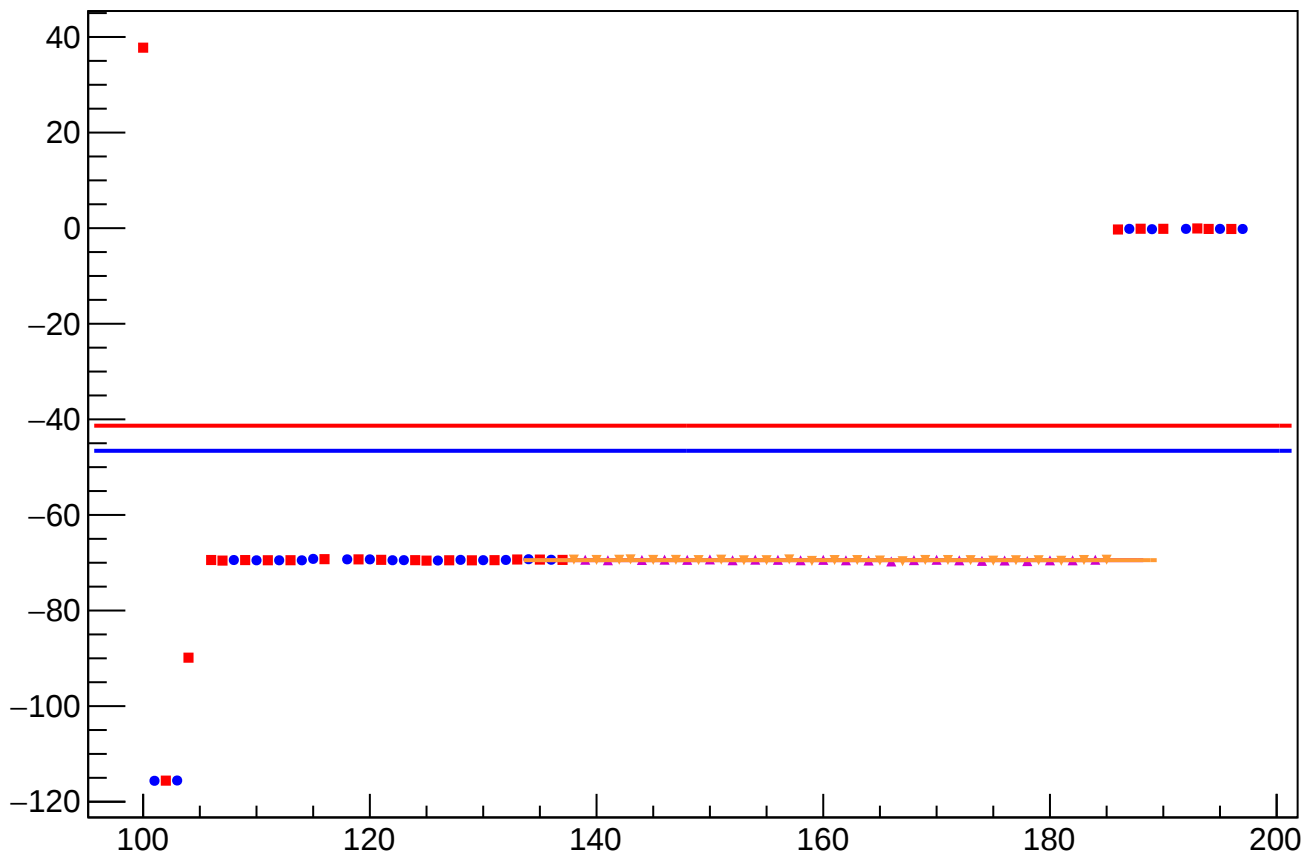
Right: 0.044+/-0.000 χ^2/NDF : 662561.7/45

In: 0.045+/-0.000 χ^2/NDF : 579604.8/43

Out: 0.045+/-0.000 χ^2/NDF : 544451.2/49

All: 0.045+/-0.000 χ^2/NDF : 1124379.6/93

yield_dsr_mean vs Slug, Sign Corrected



Right In: -46.579+/-0.000

χ^2/NDF : 5046530675164.5/21

Left: -69.460+/-0.000

χ^2/NDF : 102399164.0/47

Right: -43.753+/-0.000

χ^2/NDF : 10509258120813.3

Left Out: -69.461+/-0.000

χ^2/NDF : 49572401.9/24

In: -61.056+/-0.000

χ^2/NDF : 6094240297773.9/44

Right Out: -41.327+/-0.000

χ^2/NDF : 5415765425222.4/24

Out: -58.563+/-0.000

χ^2/NDF : 7203407802234.3/4

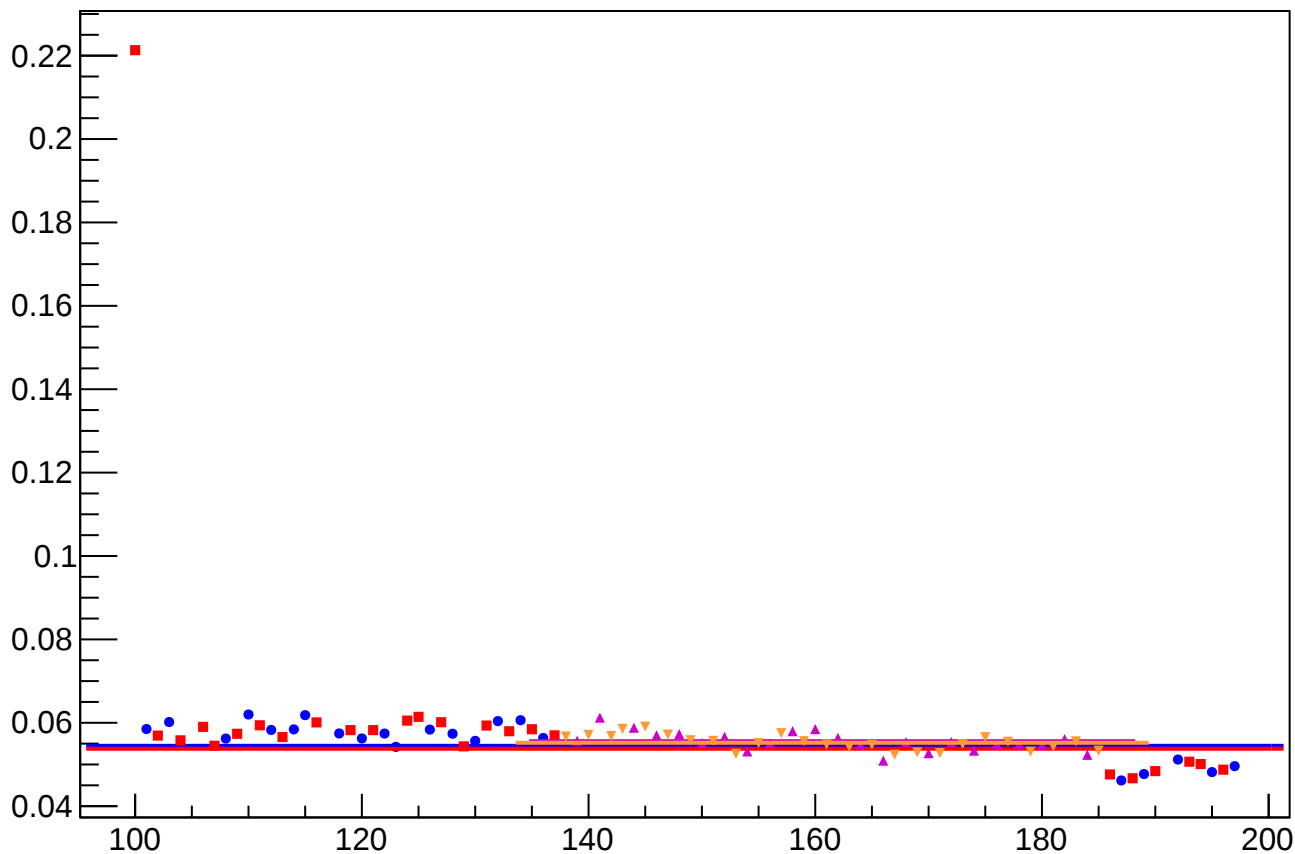
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -59.748+/-0.000

χ^2/NDF : 133257393761

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.054+/-0.000 χ^2/NDF : 135703.5/21

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

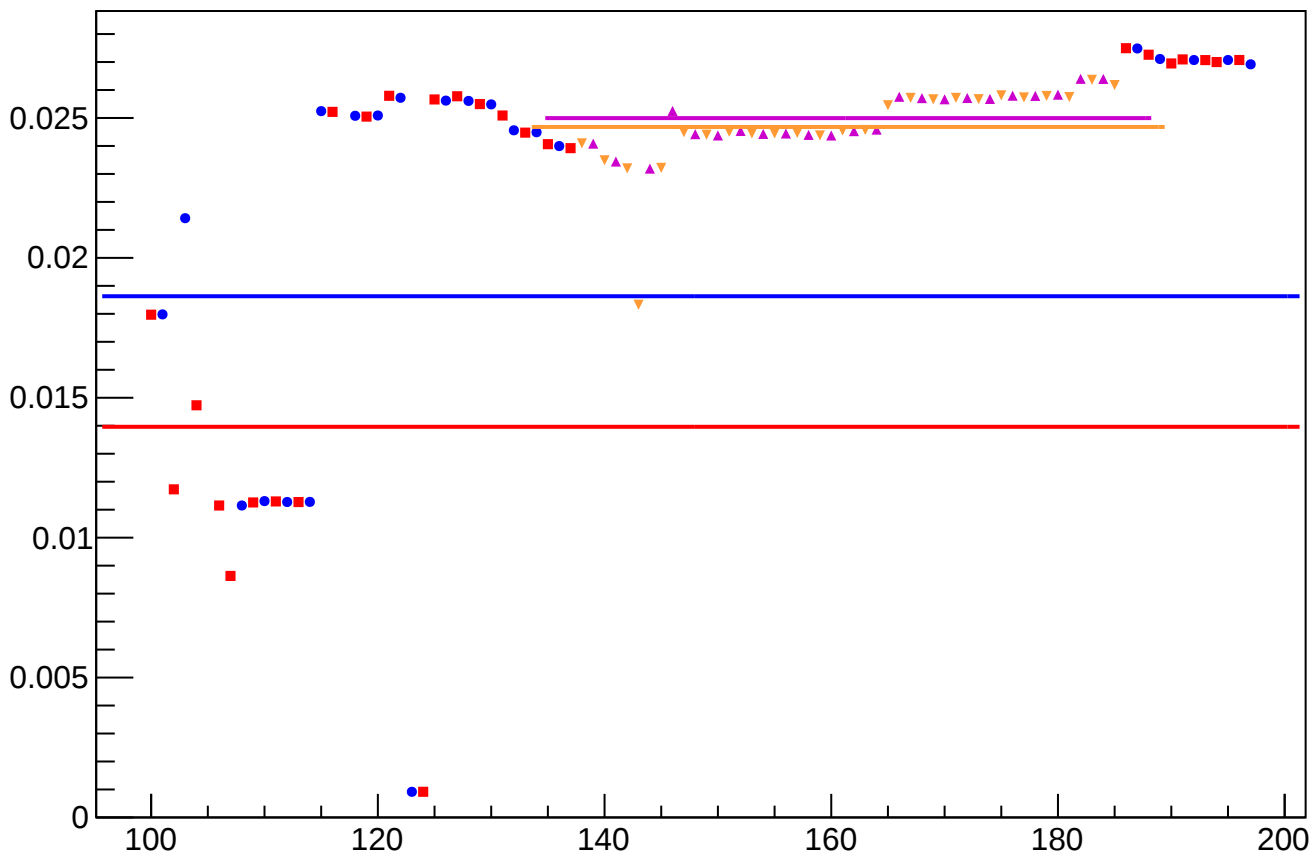
Right: 0.054+/-0.000 χ^2/NDF : 385529.6/46

In: 0.055+/-0.000 χ^2/NDF : 192898.1/44

Out: 0.055+/-0.000 χ^2/NDF : 296177.3/49

All: 0.055+/-0.000 χ^2/NDF : 491594.6/94

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 155378972704.0/21

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

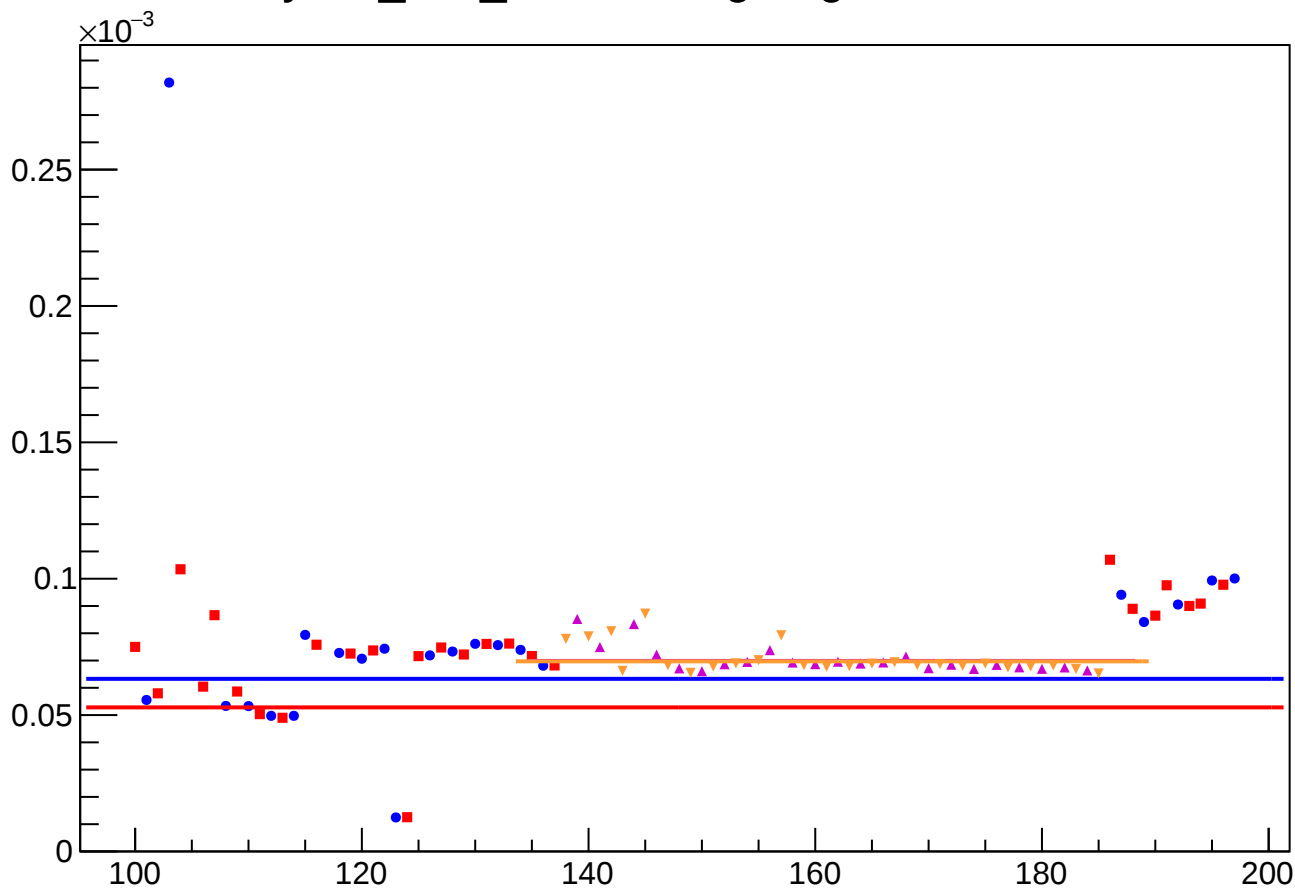
Right: 0.016 $\pm$ 0.000 χ^2 /NDF: 515581177869.1/47

In: 0.023 $\pm$ 0.000 χ^2 /NDF: 209842627821.4/44

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 530305585250.8/50

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 761639243957.5

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2788994.8/21

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

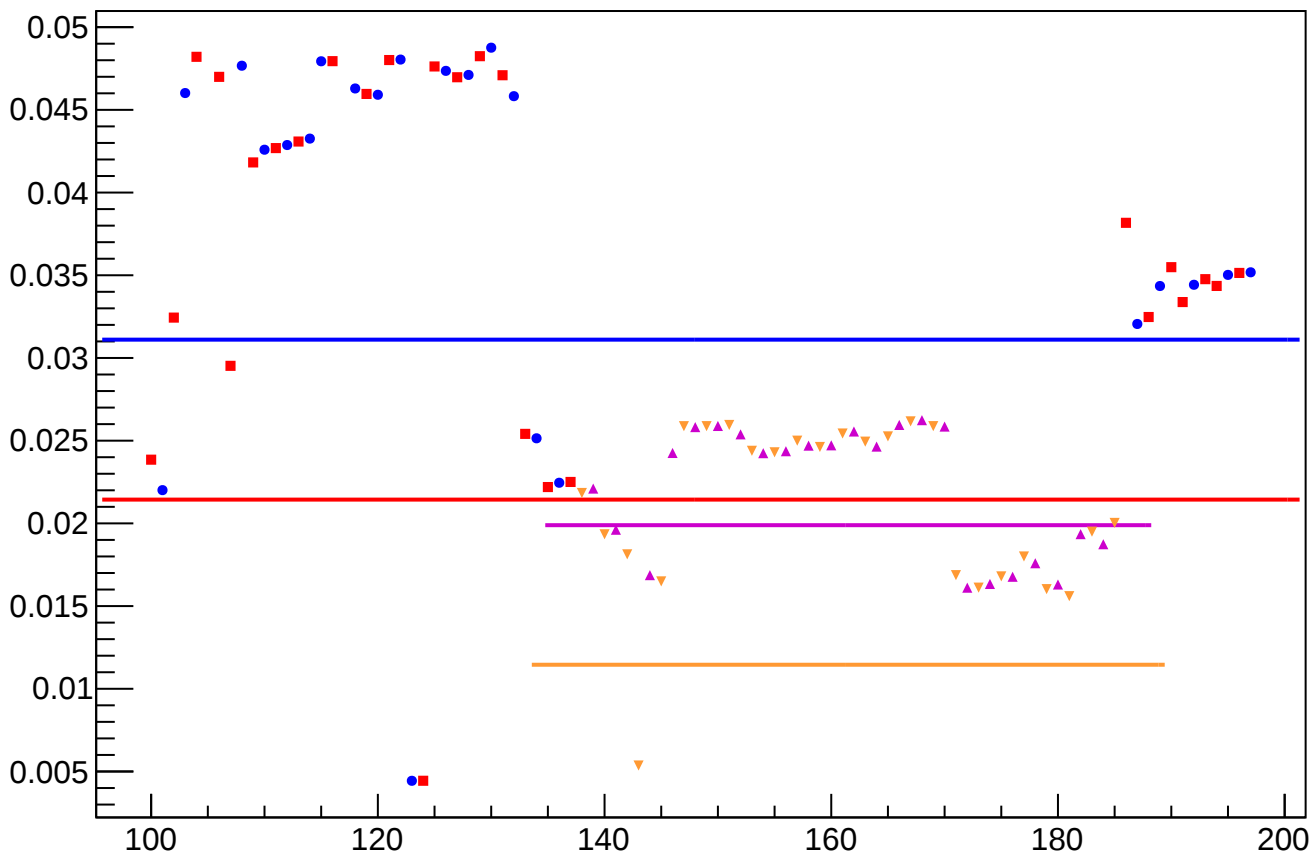
Right: 0.000+/-0.000 χ^2/NDF : 8496268.6/47

In: 0.000+/-0.000 χ^2/NDF :3029021.8/44

Out: 0.000+/-0.000 χ^2/NDF :6531410.9/50

All: 0.000+/-0.000 χ^2/NDF : 9718132.2/95

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21189714048.5/21

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.025+/-0.000

χ^2/NDF : 68042782013.8/47

Right Out: 0.021+/-0.000

χ^2/NDF : 42237317686.5/25

In: 0.022+/-0.000

χ^2/NDF : 33492372295.6/44

Out: 0.013+/-0.000

χ^2/NDF : 93561208543.0/50

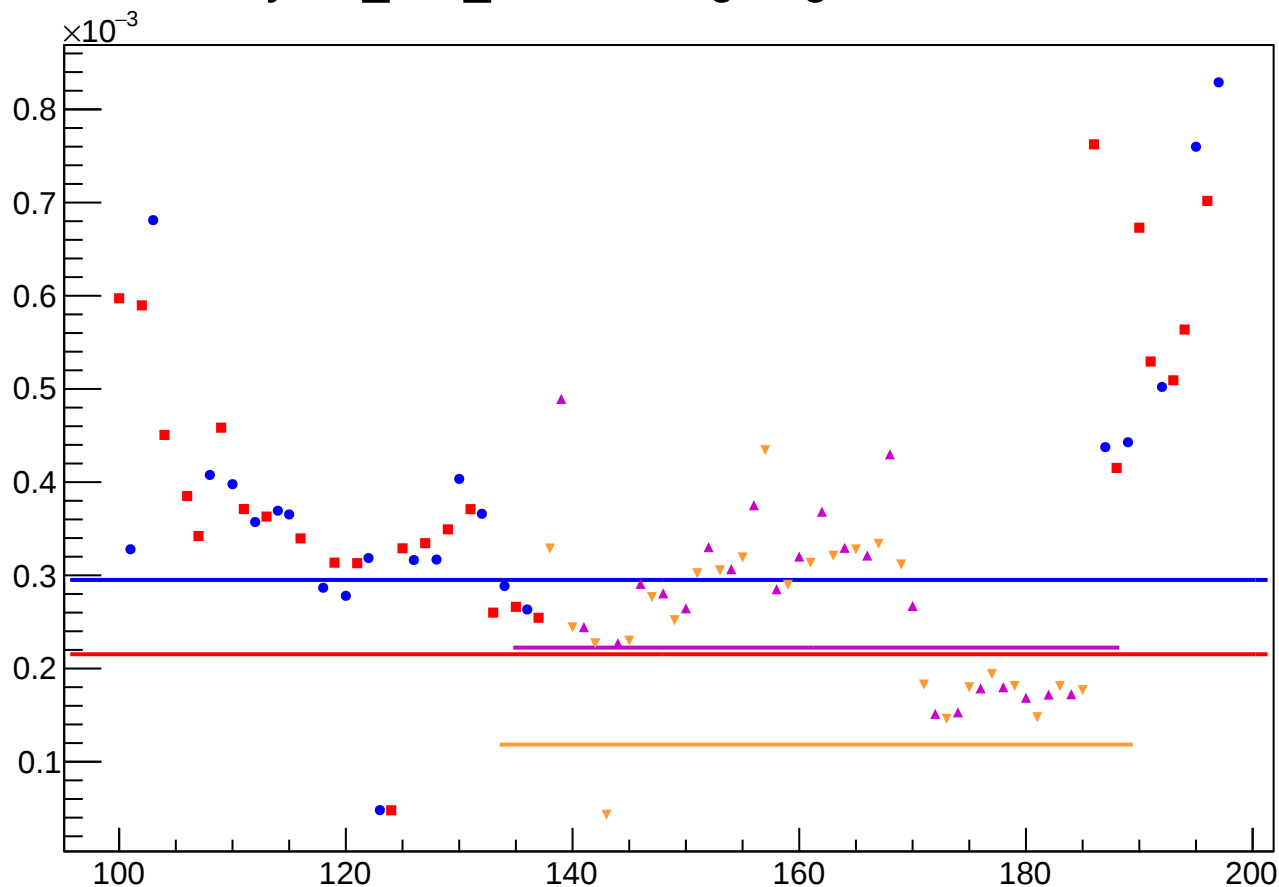
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 149320326724.8

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4100569.7/21

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

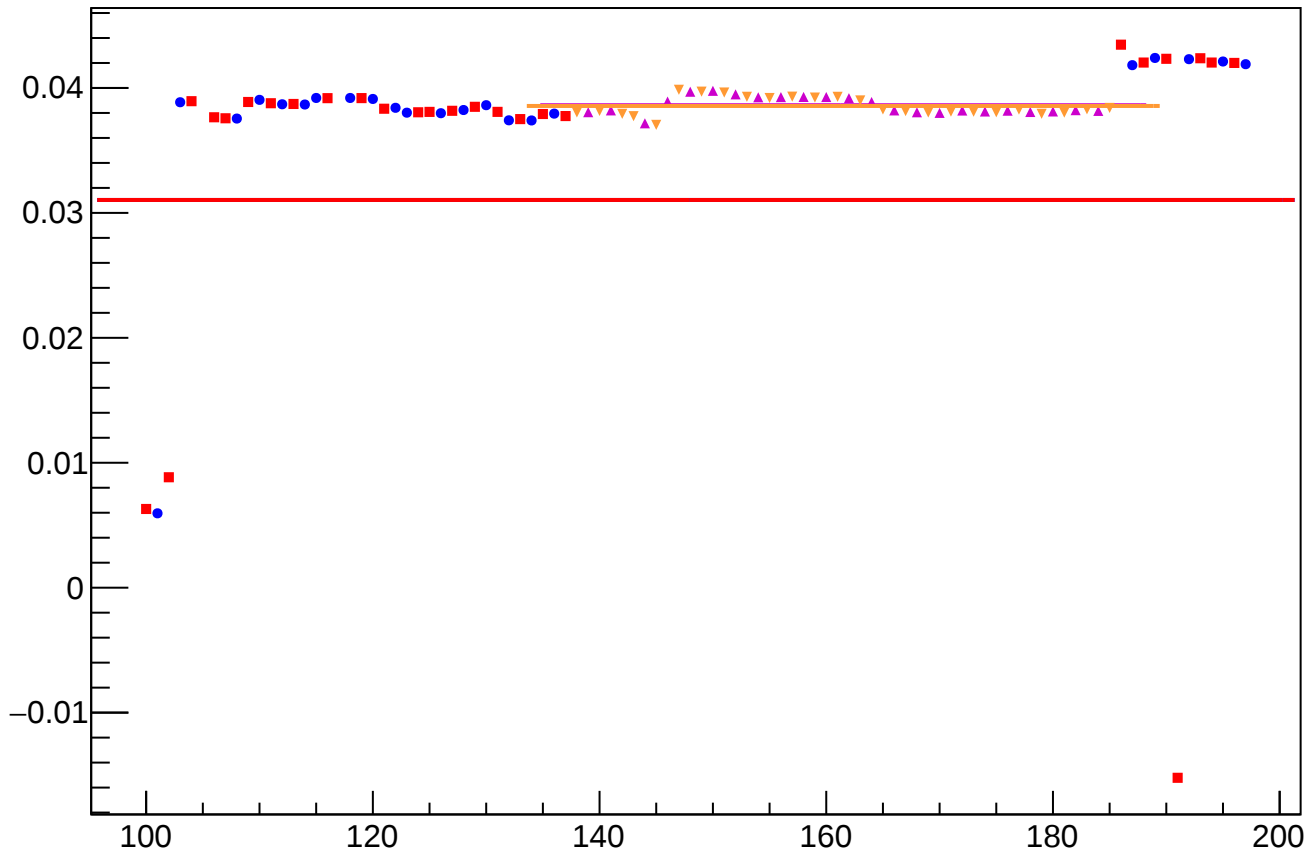
Right: 0.000+/-0.000 χ^2/NDF : 13401508.9/47

In: 0.000+/-0.000 χ^2/NDF :8039778.6/44

Out: 0.000+/-0.000 χ^2/NDF :24315437.6/50

All: 0.000+/-0.000 χ^2/NDF : 37999348.2/95

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 104257788634.2/21

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

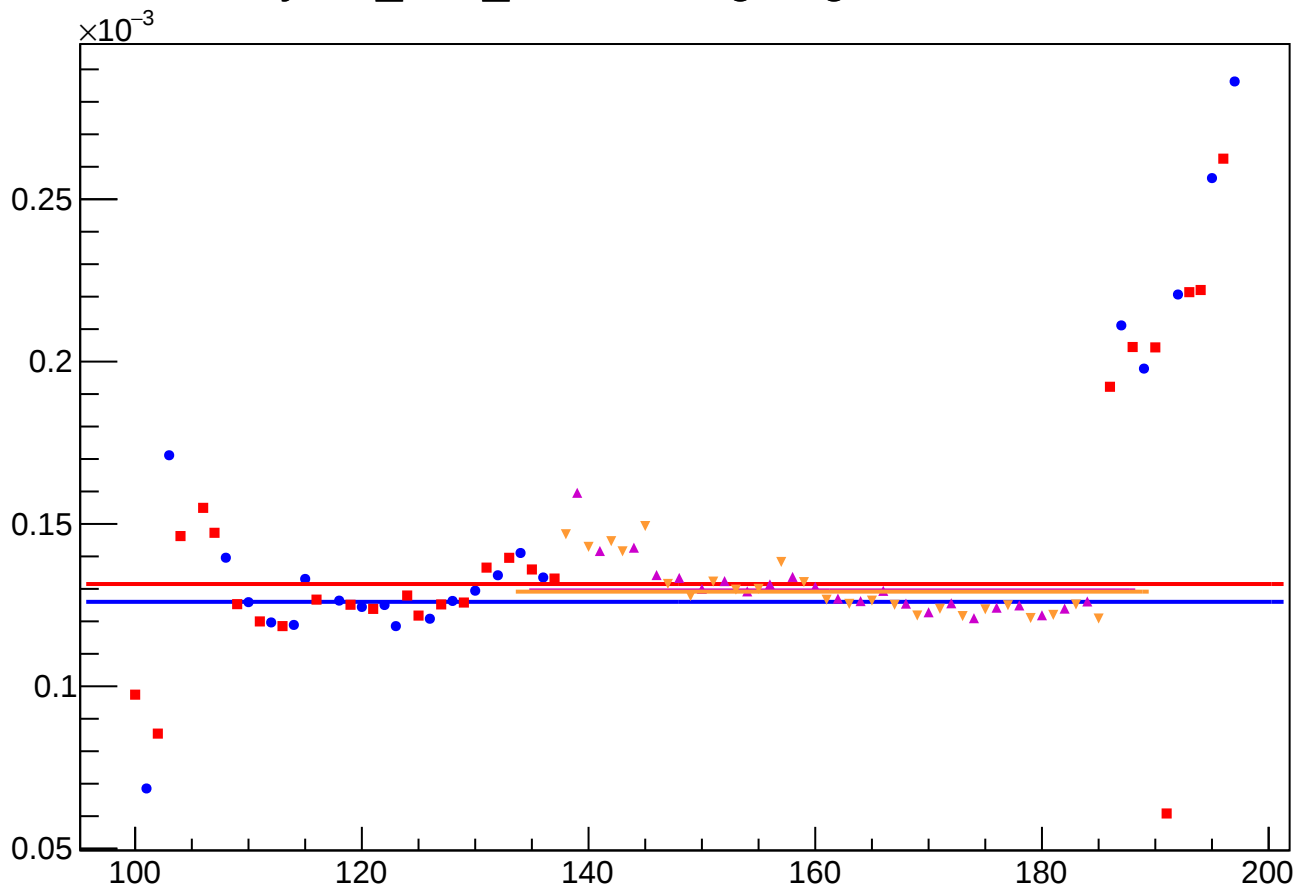
Right: 0.031+/-0.000 χ^2/NDF : 275809698029.7/47

In: 0.036+/-0.000 χ^2/NDF : 124630744967.4/44

Out: 0.036+/-0.000 χ^2/NDF : 193094072777.3/50

All: 0.036+/-0.000 χ^2/NDF : 317728106094.3

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2263172.4/21

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

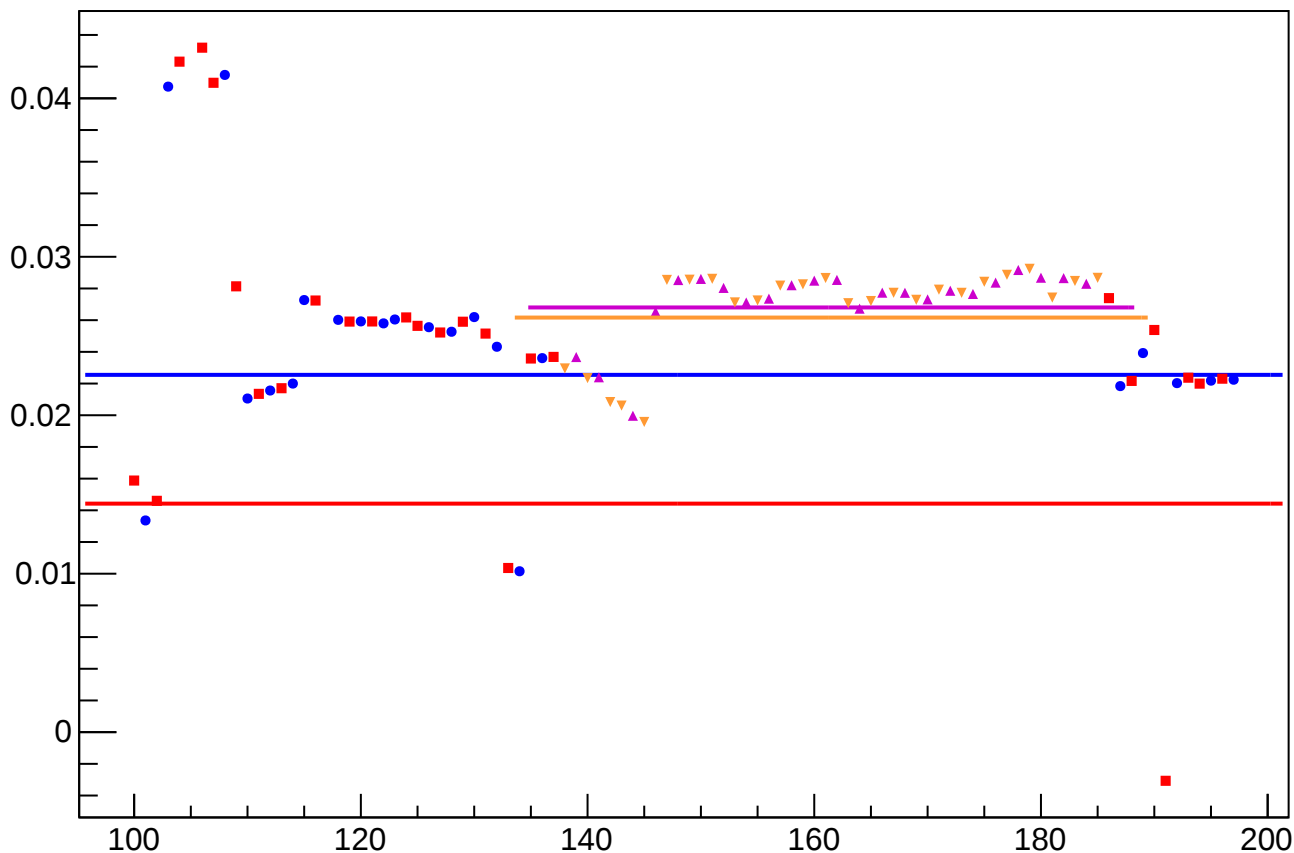
Right: 0.000+/-0.000 χ^2/NDF : 4353981.6/47

In: 0.000+/-0.000 χ^2/NDF :2386502.2/44

Out: 0.000+/-0.000 χ^2/NDF :2208841.3/50

All: 0.000+/-0.000 χ^2/NDF : 4599543.0/95

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4244138447.1/21

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

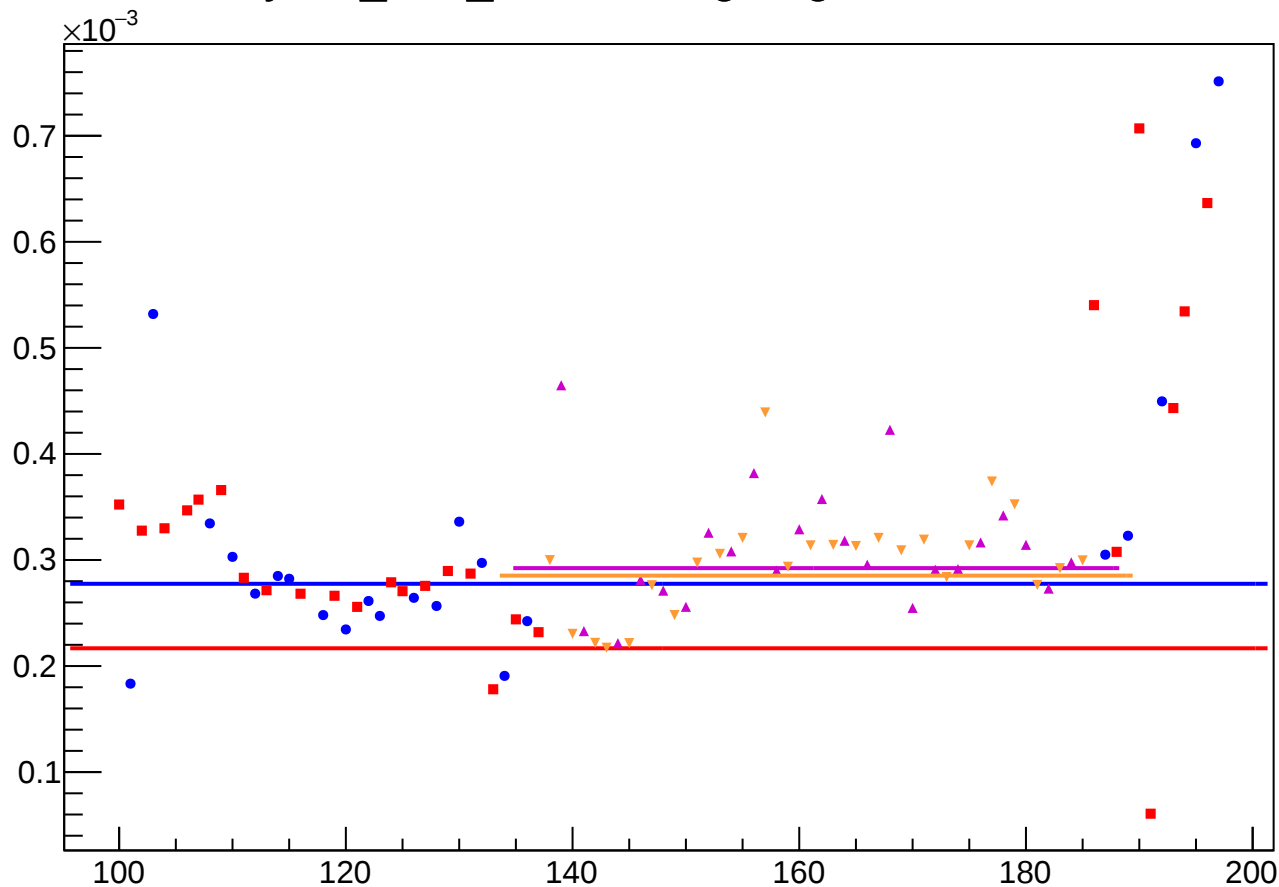
Right: 0.018+/-0.000 χ^2/NDF : 38958017374.9/47

In: 0.025+/-0.000 χ^2/NDF : 6764226798.4/44

Out: 0.021+/-0.000 χ^2/NDF : 44856747633.1/50

All: 0.023+/-0.000 χ^2/NDF : 54525497612.1/95

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2113716.8/21

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

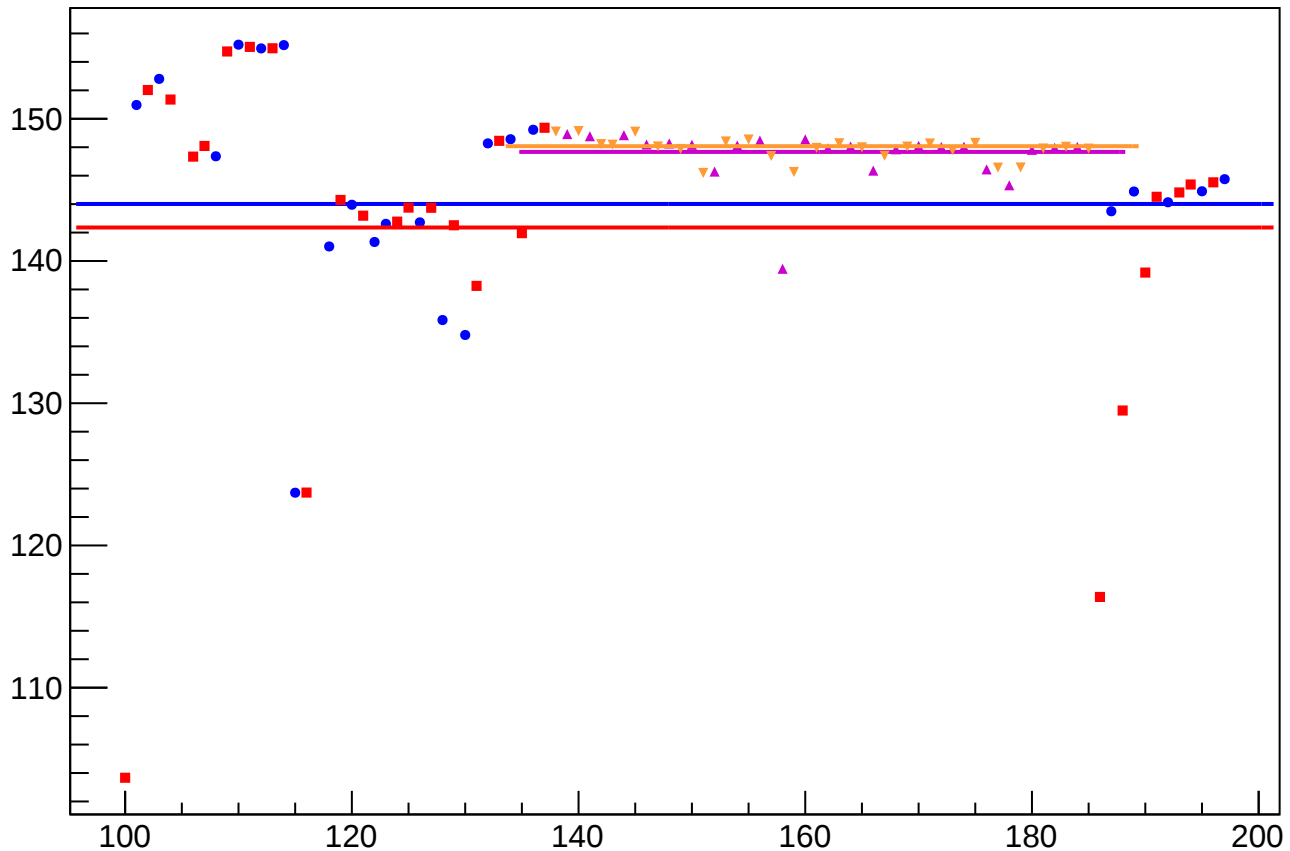
Right: 0.000+/-0.000 χ^2/NDF : 8368282.1/47

In: 0.000+/-0.000 χ^2/NDF :3041187.6/44

Out: 0.000+/-0.000 χ^2/NDF :7439515.1/50

All: 0.000+/-0.000 χ^2/NDF : 10803498.2/95

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.011 $\pm$ 0.000 χ^2 /NDF: 3463233358.7/21

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

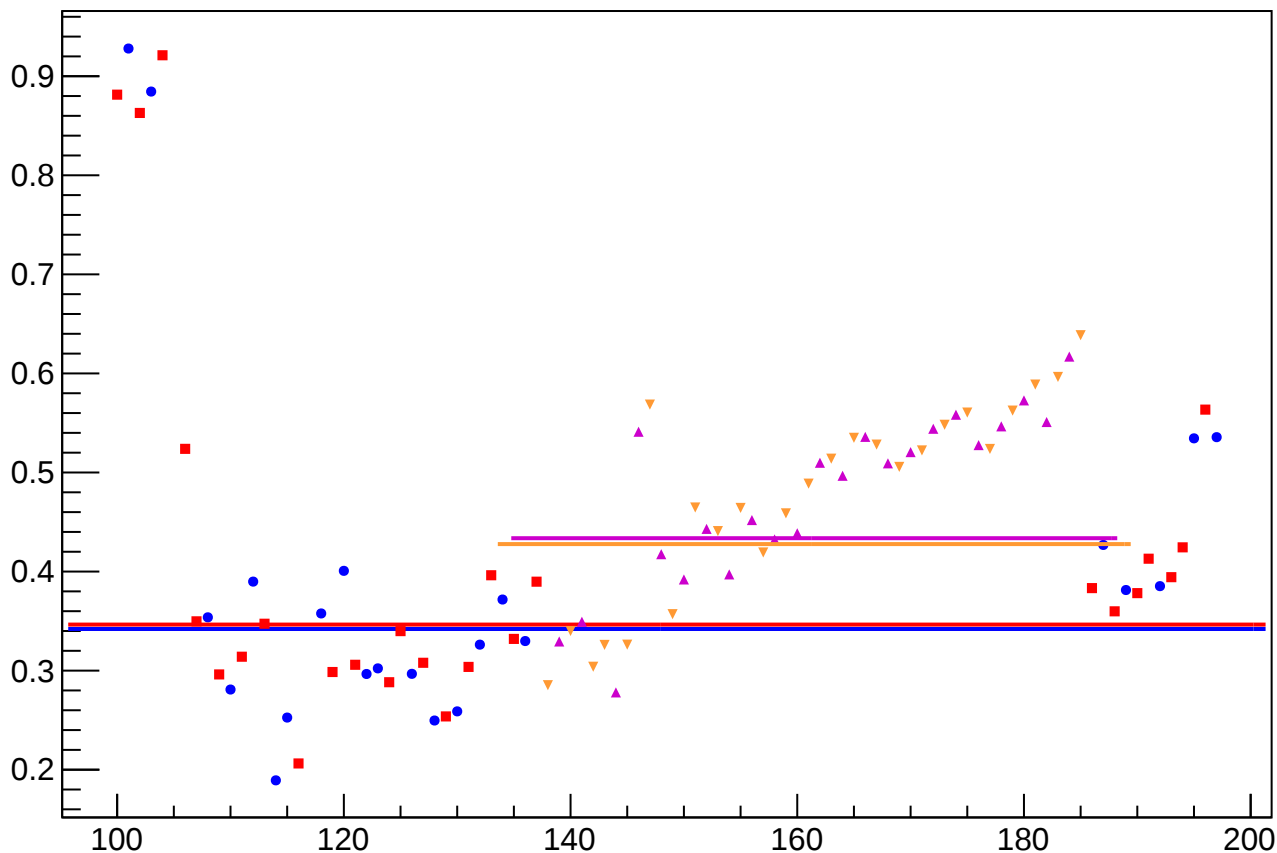
Right: 143.122 $\pm$ 0.000 χ^2 /NDF: 10896641542.3/47

In: 146.038 $\pm$ 0.000 χ^2 /NDF: 4325017418.6/44

Out: 145.413 $\pm$ 0.000 χ^2 /NDF: 8807491853.4/50

All: 145.709 $\pm$ 0.000 χ^2 /NDF: 13164555193.4/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.342+/-0.000 χ^2/NDF : 1744273.7/21

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

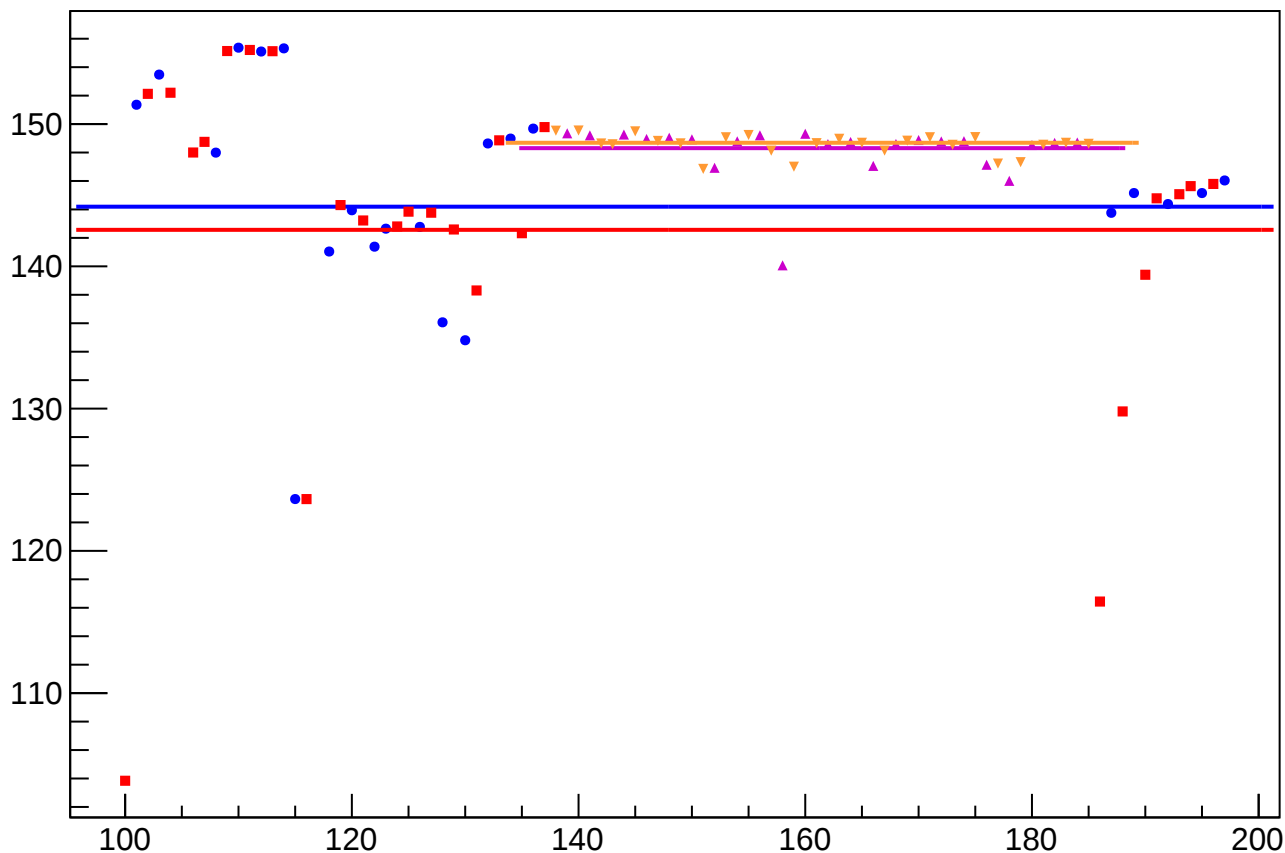
Right: 0.344+/-0.000 χ^2/NDF : 3348989.2/47

In: 0.393+/-0.000 χ^2/NDF :3888395.6/44

Out: 0.390+/-0.000 χ^2/NDF :4069978.6/50

All: 0.391+/-0.000 χ^2/NDF : 7959717.6/95

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.193+/-0.000 χ^2/NDF : 3509449826.8/21

Left Out: 148.686+/-0.000 χ^2/NDF : 52218185.1/24

Right Out: 142.566+/-0.000 χ^2/NDF : 7276360810.9/25

Left In: 148.307+/-0.000 χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000 χ^2/NDF : 392094013.2/47

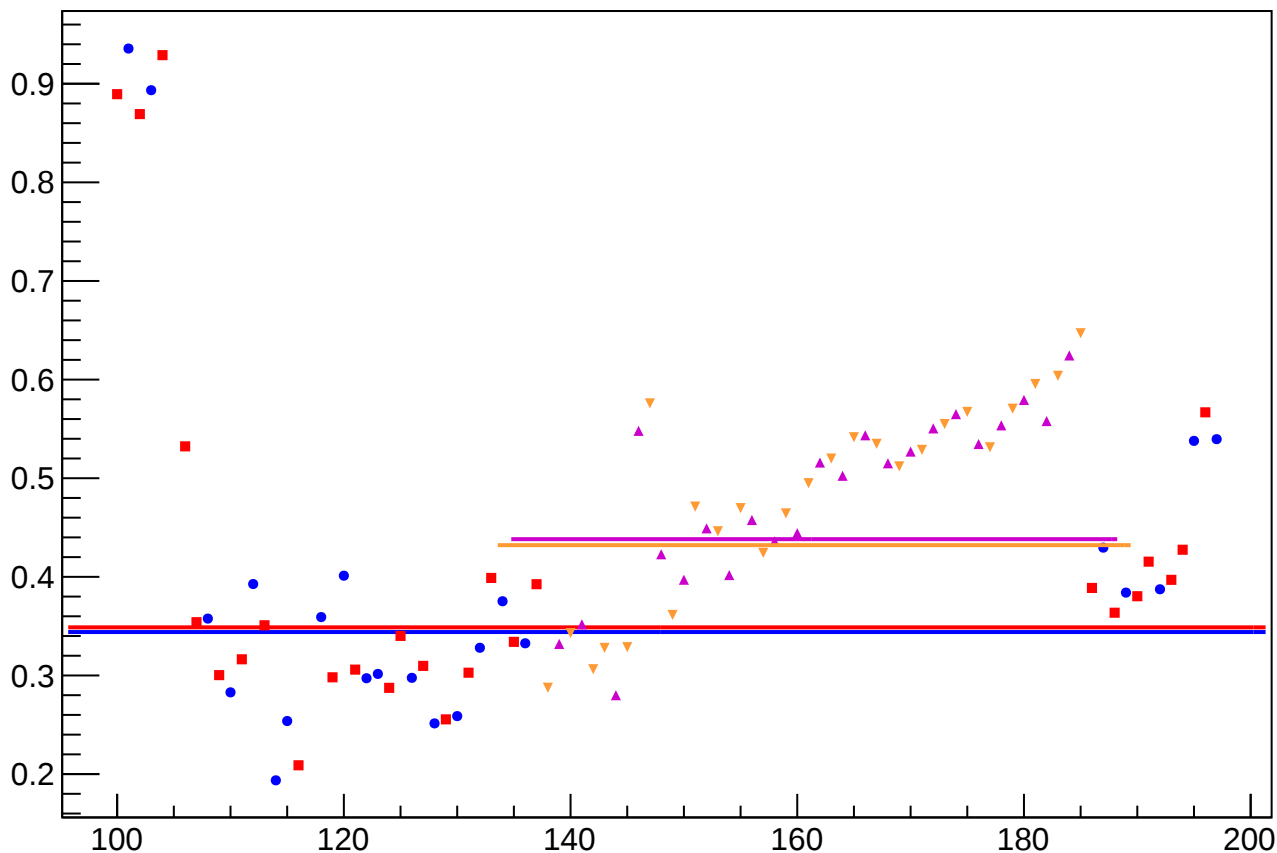
Right: 143.320+/-0.000 χ^2/NDF : 10883602759.9/47

In: 146.462+/-0.000 χ^2/NDF : 4485351540.0/44

Out: 145.827+/-0.000 χ^2/NDF : 8918140830.2/50

All: 146.128+/-0.000 χ^2/NDF : 13436083401.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.344 $\pm$ 0.000 χ^2/NDF : 1747544.6/21

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

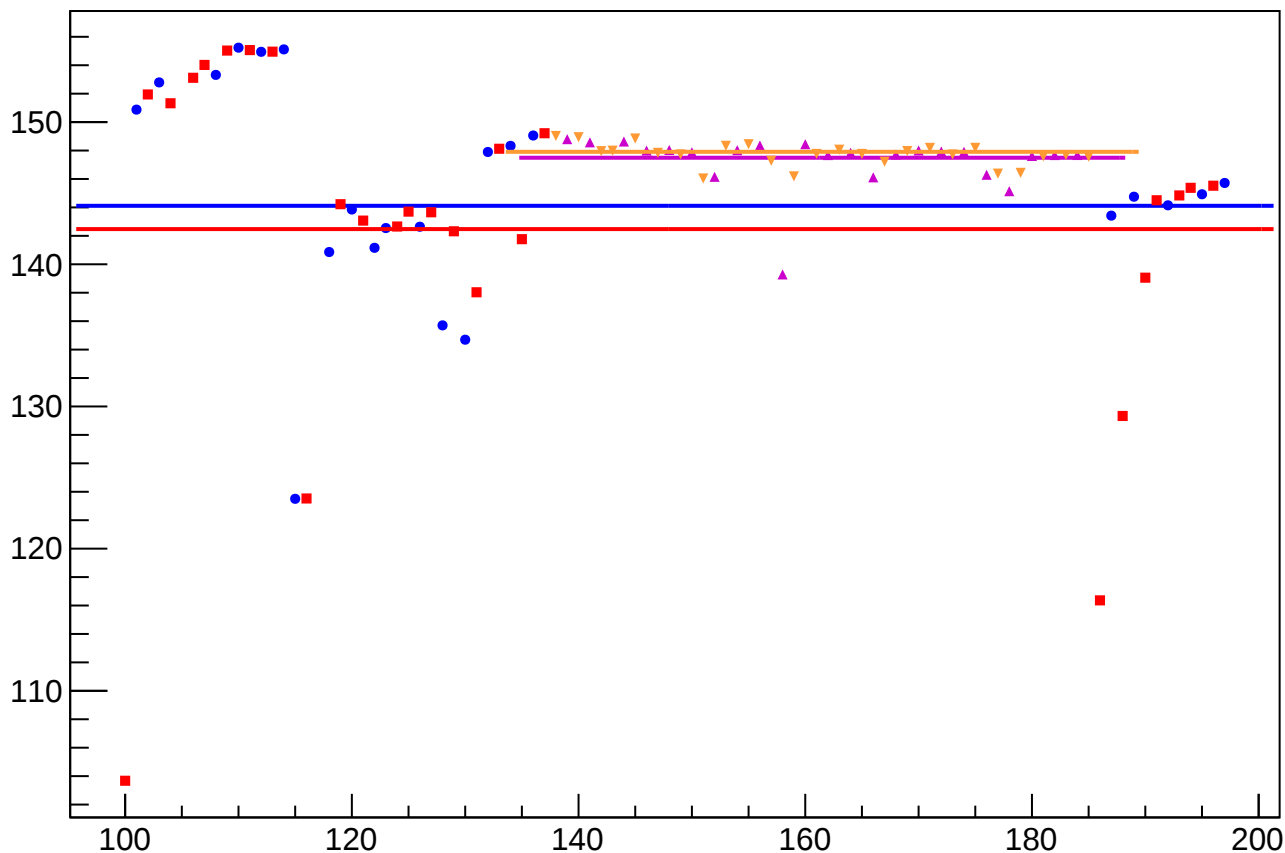
Right: 0.347 $\pm$ 0.000 χ^2/NDF : 3357152.2/47

In: 0.396 $\pm$ 0.000 χ^2/NDF :3942786.9/44

Out: 0.393 $\pm$ 0.000 χ^2/NDF :4126368.8/50

All: 0.395 $\pm$ 0.000 χ^2/NDF : 8070395.2/95

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.113 $\pm$ 0.000 χ^2 /NDF: 3674002637.4/21

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

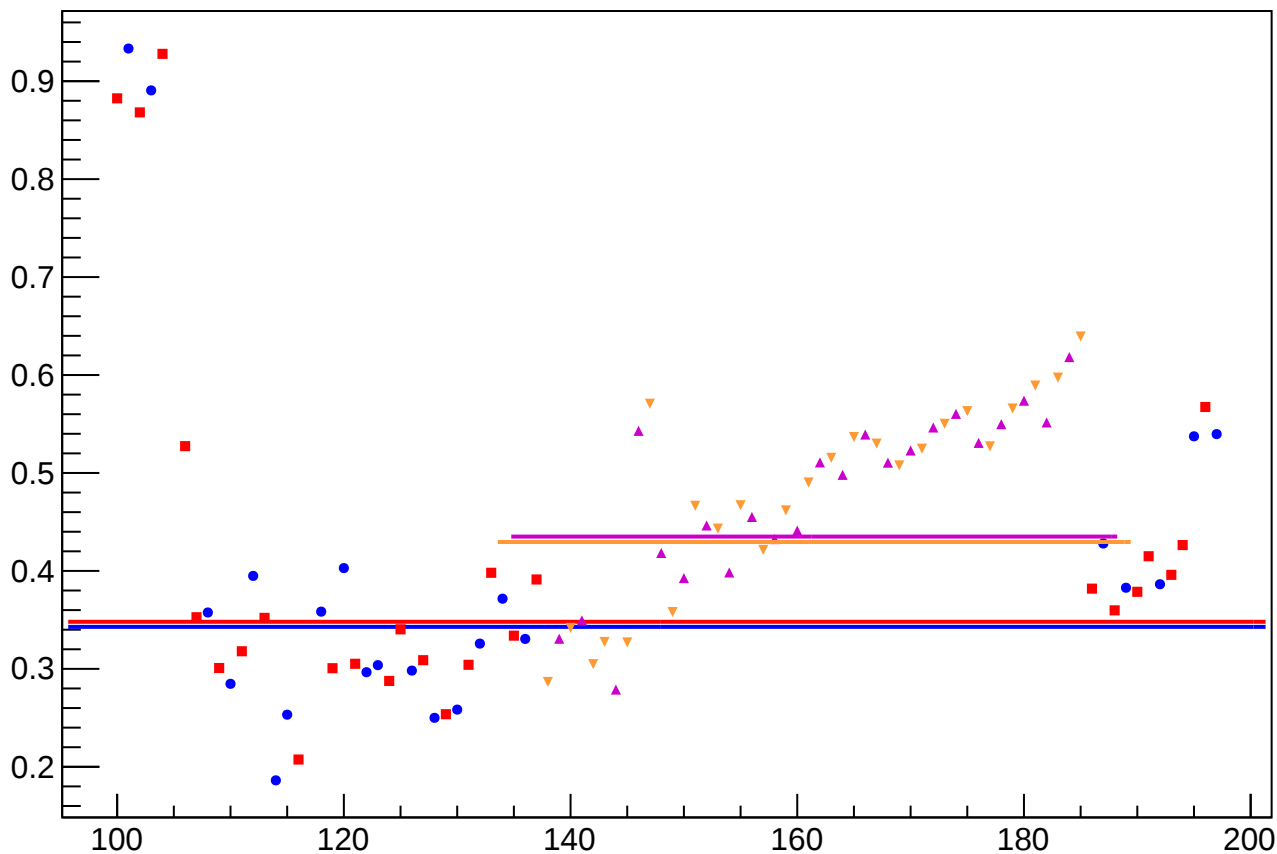
Right: 143.235 $\pm$ 0.000 χ^2 /NDF: 11491295630.0/47

In: 145.986 $\pm$ 0.000 χ^2 /NDF: 4455701720.0/44

Out: 145.383 $\pm$ 0.000 χ^2 /NDF: 9046495464.9/50

All: 145.669 $\pm$ 0.000 χ^2 /NDF: 13531777997.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.343+/-0.000 χ^2/NDF : 1764950.8/21

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.348+/-0.000 χ^2/NDF : 1605884.0/25

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

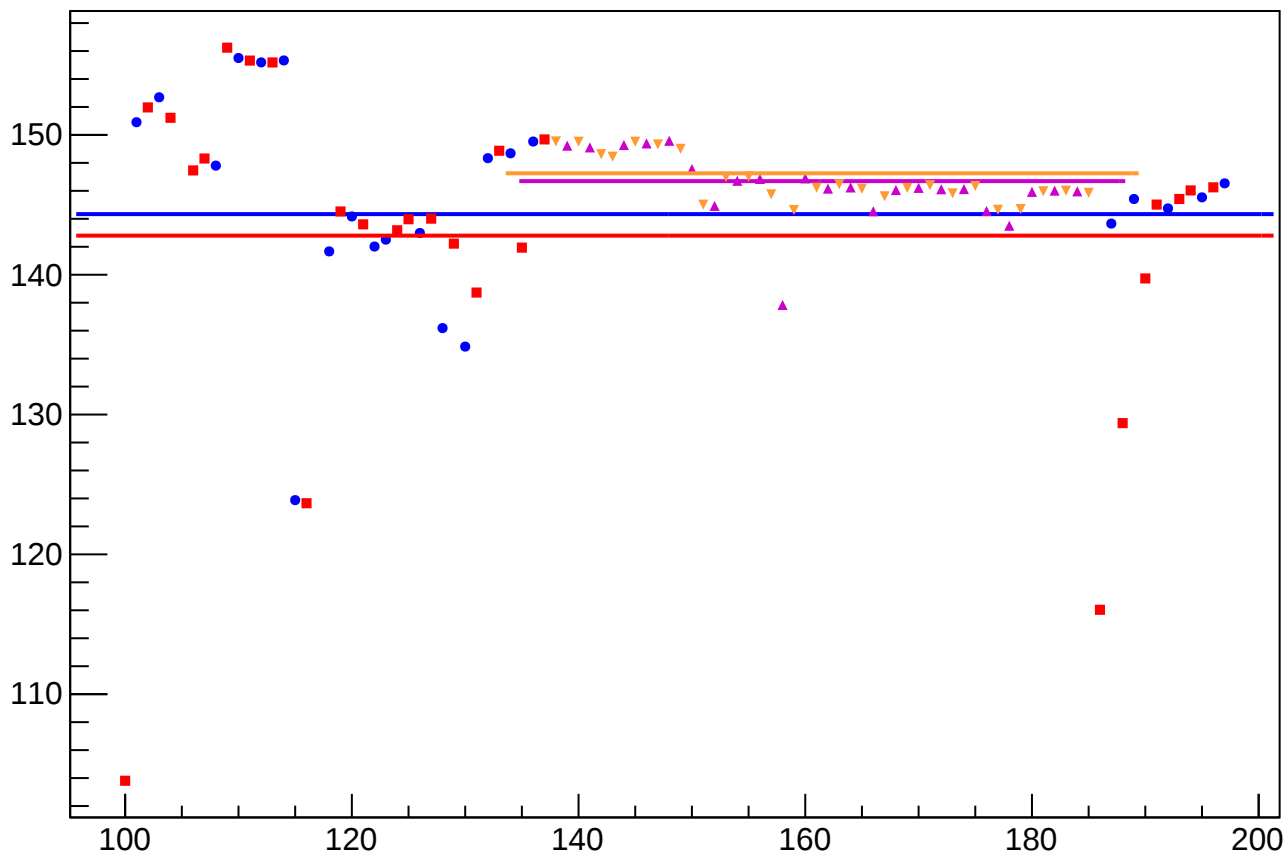
Right: 0.346+/-0.000 χ^2/NDF : 3372828.1/47

In: 0.394+/-0.000 χ^2/NDF :3918685.5/44

Out: 0.392+/-0.000 χ^2/NDF :4069397.8/50

All: 0.393+/-0.000 χ^2/NDF : 7988945.0/95

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.336 $\pm$ 0.000 χ^2/NDF : 3183595940.3/21

Left Out: 147.255 $\pm$ 0.000 χ^2/NDF : 262138049.8/24

Right Out: 142.797 $\pm$ 0.000 χ^2/NDF : 7033249692.6/25

Left In: 146.695 $\pm$ 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2/NDF : 833217060.4/47

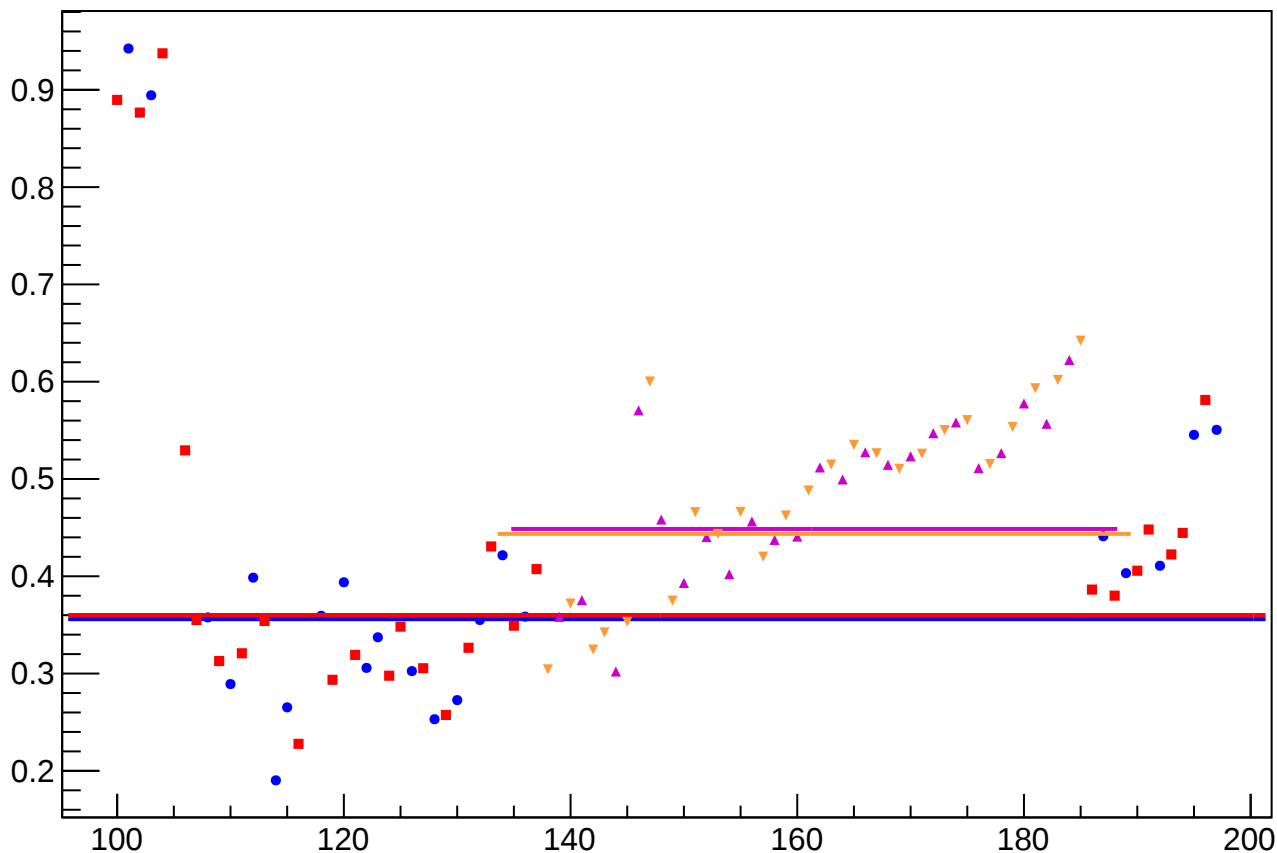
Right: 143.509 $\pm$ 0.000 χ^2/NDF : 10298396751.7/47

In: 145.658 $\pm$ 0.000 χ^2/NDF : 3941301351.0/44

Out: 145.201 $\pm$ 0.000 χ^2/NDF : 8092941746.9/50

All: 145.417 $\pm$ 0.000 χ^2/NDF : 12050241477.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.356+/-0.000 χ^2/NDF : 1735861.7/21

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

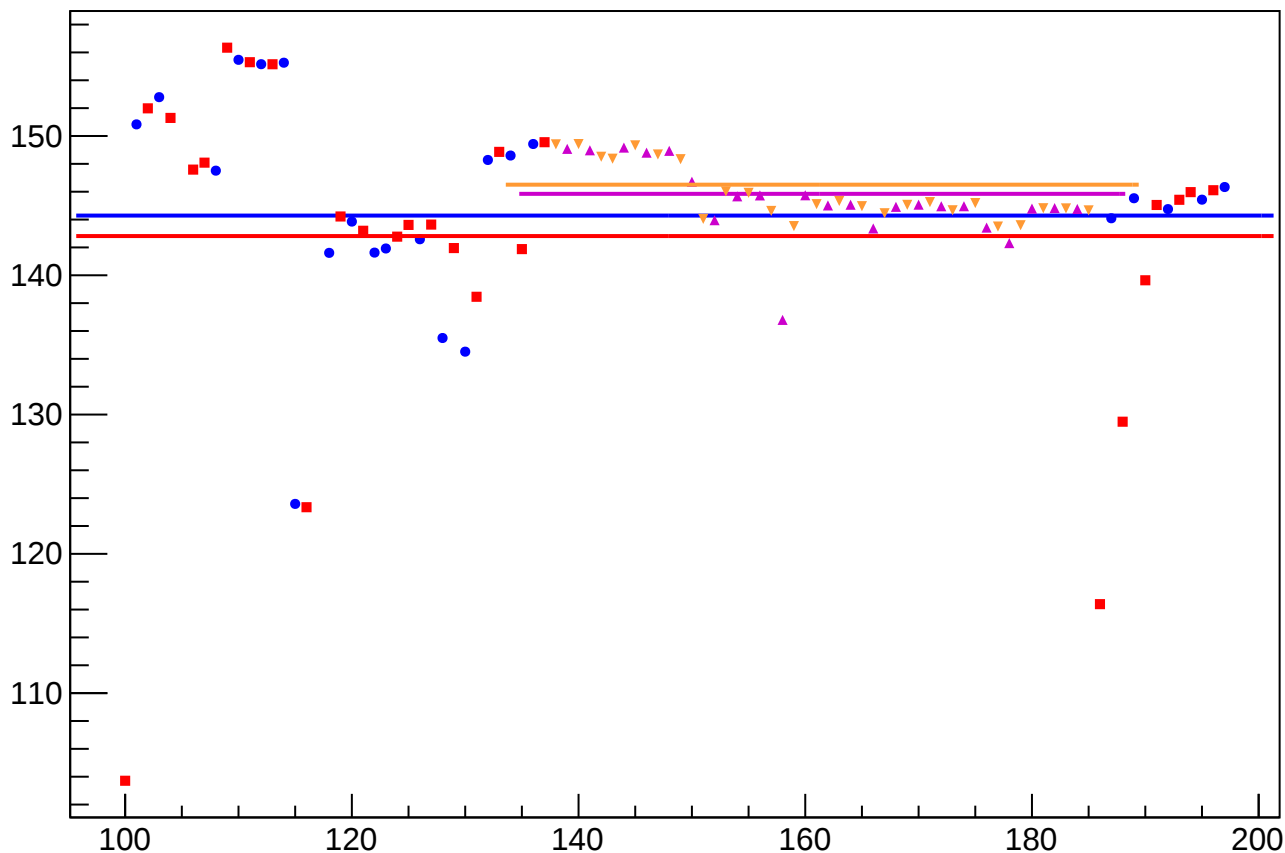
Right: 0.358+/-0.000 χ^2/NDF : 3330304.5/47

In: 0.408+/-0.000 χ^2/NDF :3485475.8/44

Out: 0.405+/-0.000 χ^2/NDF :3634972.6/50

All: 0.406+/-0.000 χ^2/NDF : 7121573.6/95

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.287 $\pm$ 0.000 χ^2/NDF : 3301996764.1/21

Left Out: 146.505 $\pm$ 0.000 χ^2/NDF : 401688176.3/24

Right Out: 142.816 $\pm$ 0.000 χ^2/NDF : 7005021209.1/25

Left In: 145.847 $\pm$ 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2/NDF : 1114638549.0/47

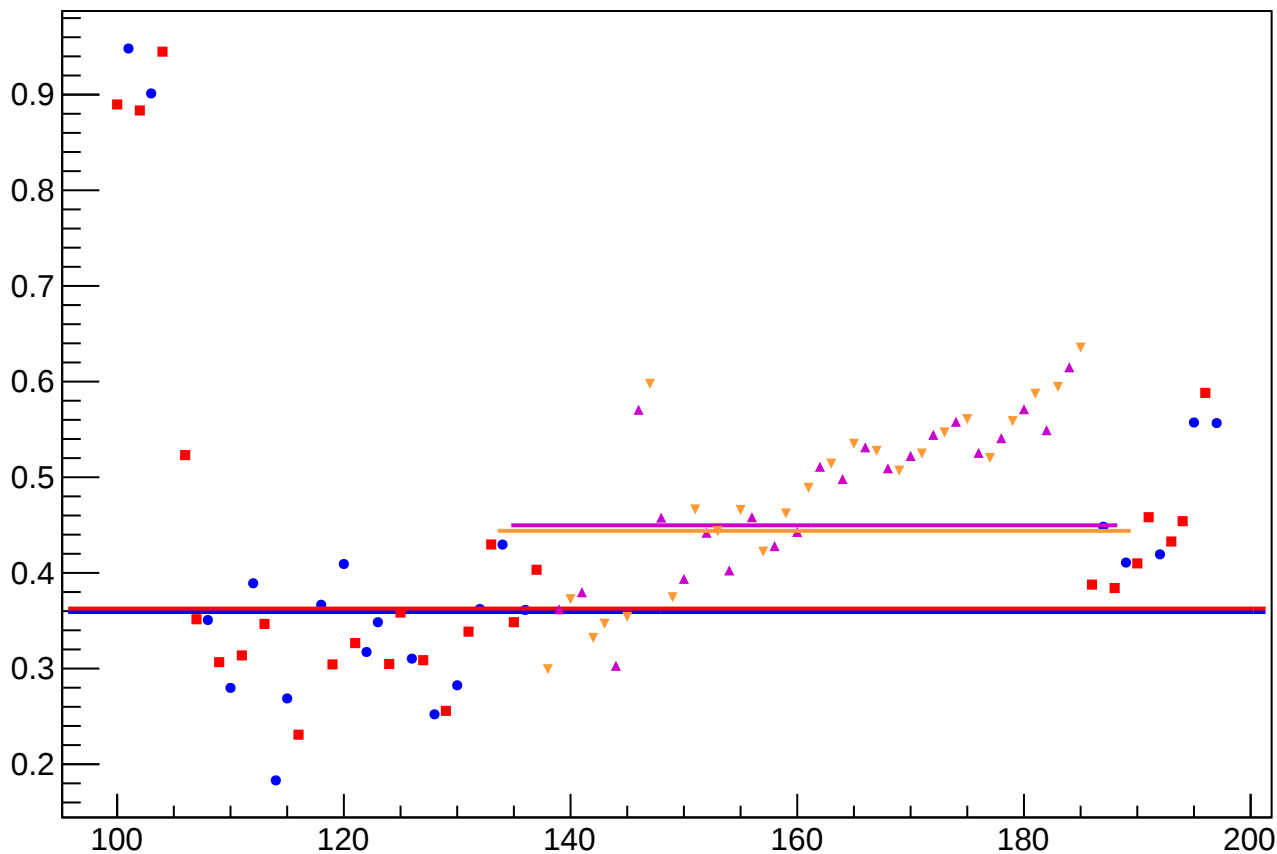
Right: 143.494 $\pm$ 0.000 χ^2/NDF : 10379986200.0/47

In: 145.167 $\pm$ 0.000 χ^2/NDF : 4082794116.6/44

Out: 144.819 $\pm$ 0.000 χ^2/NDF : 7947148055.4/50

All: 144.984 $\pm$ 0.000 χ^2/NDF : 12039124198.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.359+/-0.000 χ^2/NDF : 1772368.0/21

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.363+/-0.000 χ^2/NDF : 1605956.7/25

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

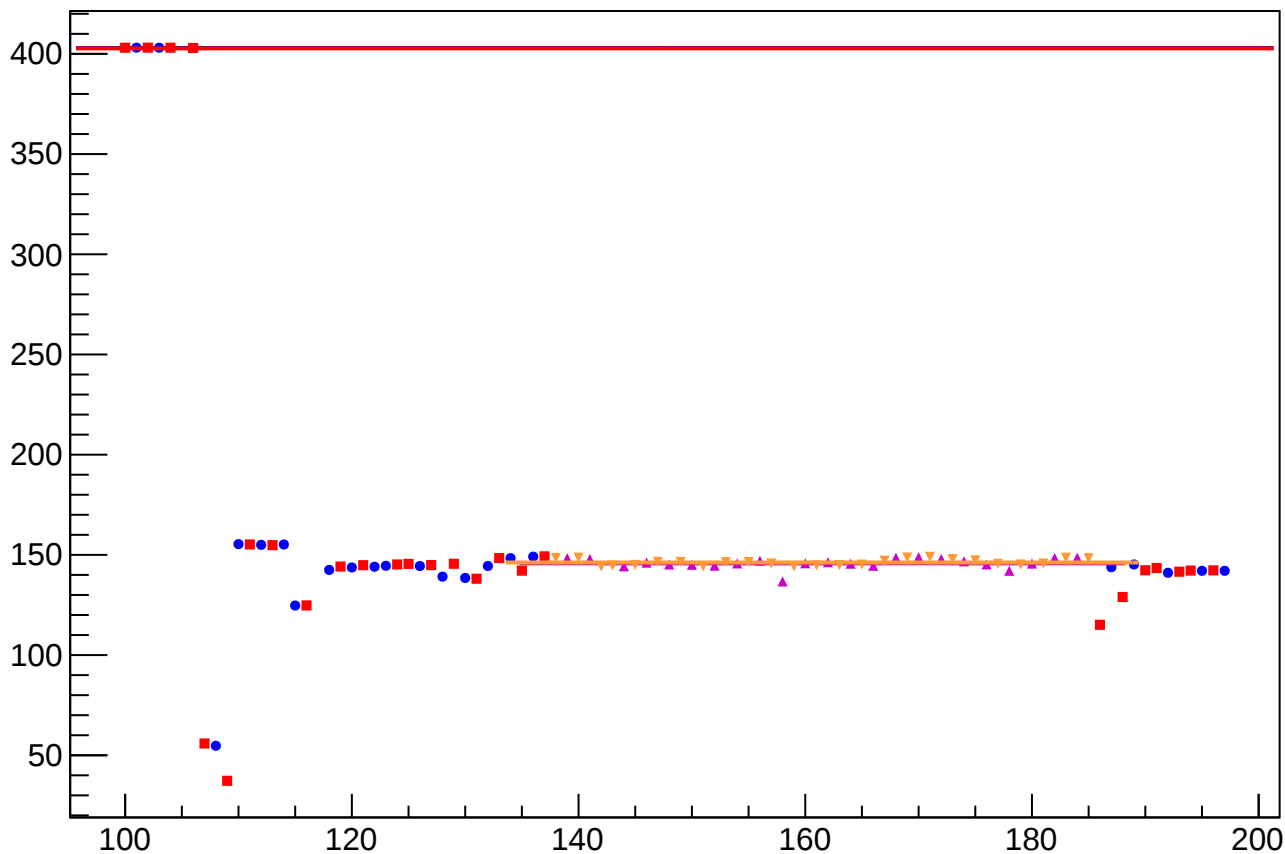
Right: 0.361+/-0.000 χ^2/NDF : 3379192.4/47

In: 0.410+/-0.000 χ^2/NDF :3458432.9/44

Out: 0.407+/-0.000 χ^2/NDF :3593902.9/50

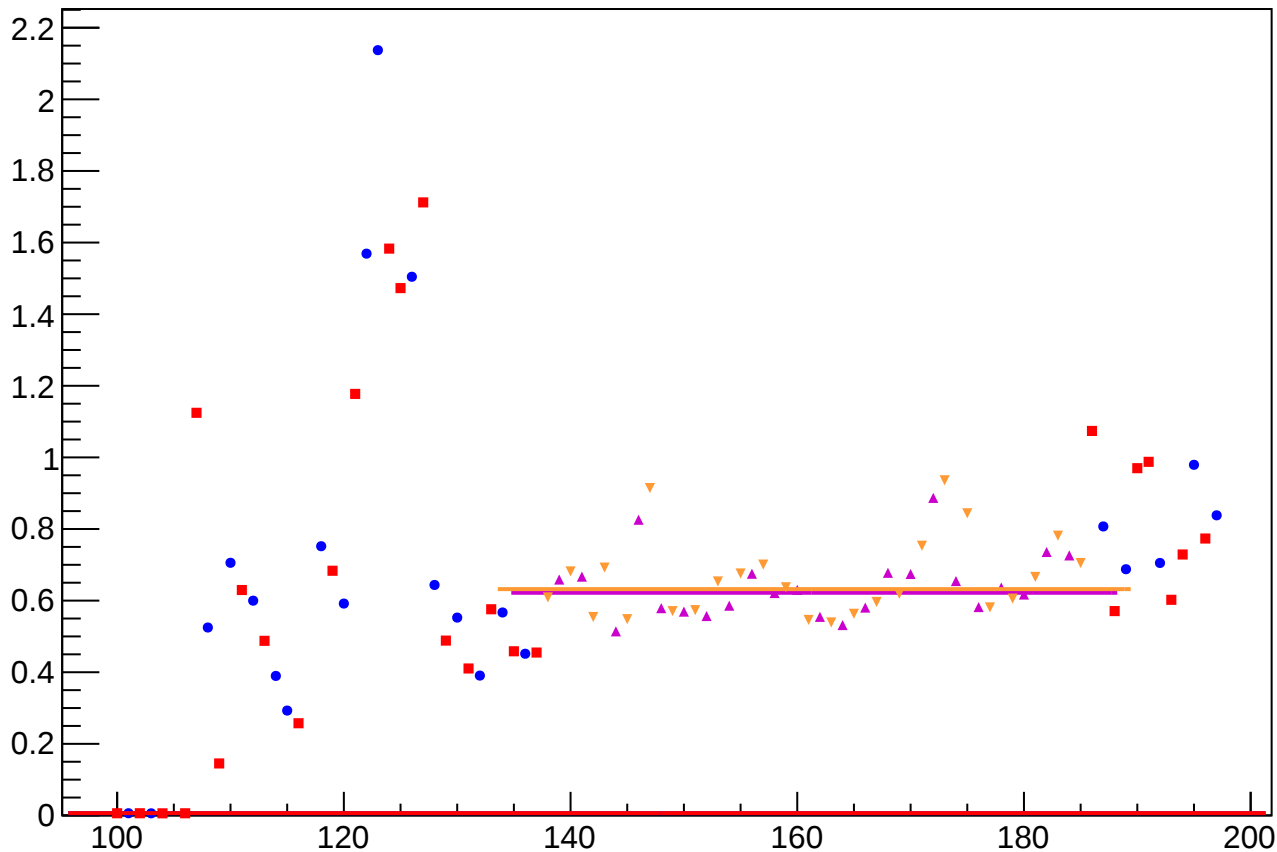
All: 0.408+/-0.000 χ^2/NDF : 7054129.5/95

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.927+/-0.000	χ^2/NDF : 1345640349346.5/21	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.830+/-0.000	χ^2/NDF : 4956489152887.9/
Right Out: 402.745+/-0.000	χ^2/NDF : 3610301012002.9/25	In: 402.633+/-0.000	χ^2/NDF : 3695107616016.7/4
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.483+/-0.000	χ^2/NDF : 5978683646698.9/5
		All: 402.553+/-0.000	χ^2/NDF : 96741662853/

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 13637601.6/21

Left Out: 0.632+/-0.000 χ^2/NDF : 614155.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 15968605.8/25

Left In: 0.622+/-0.000 χ^2/NDF : 404479.0/22

Left: 0.627+/-0.000 χ^2/NDF : 1022337.9/47

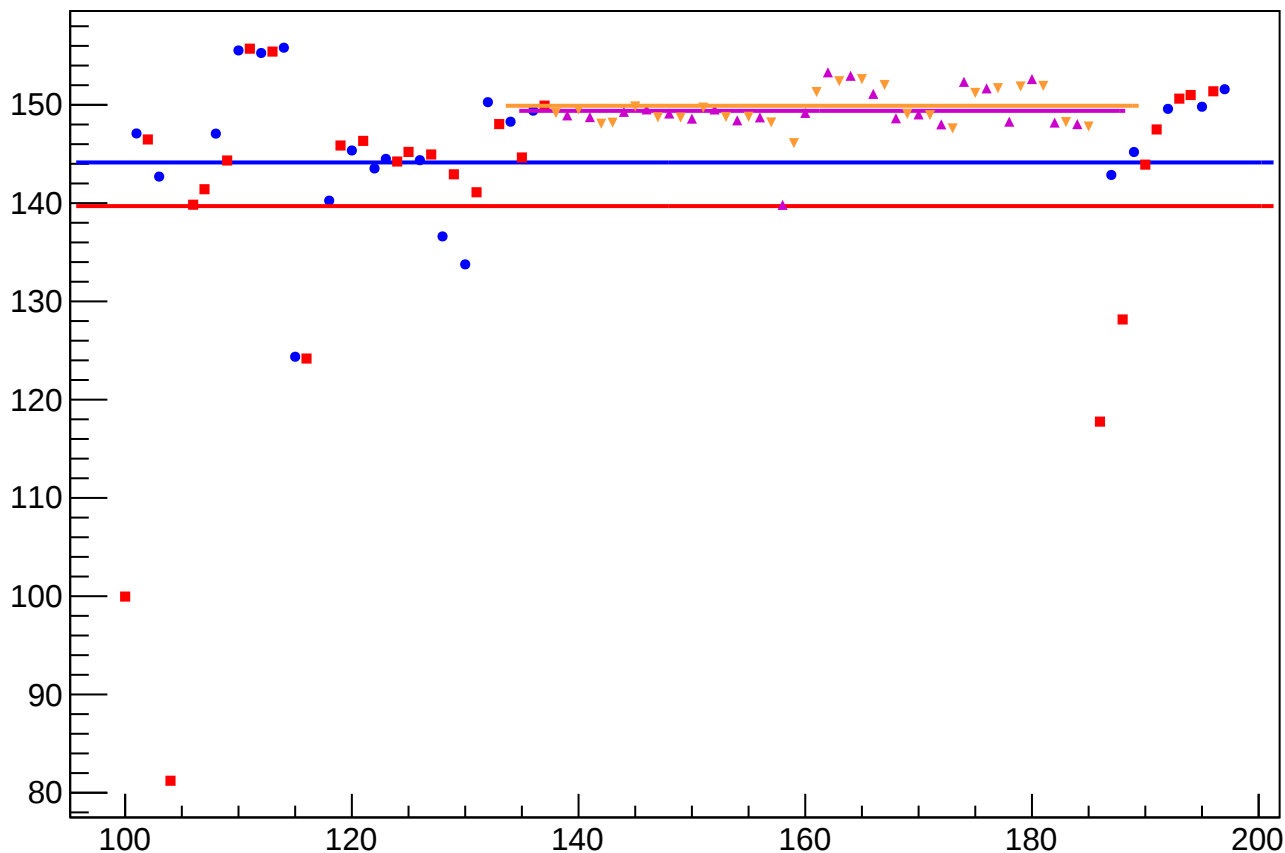
Right: 0.006+/-0.000 χ^2/NDF : 29606246.9/47

In: 0.007+/-0.000 χ^2/NDF : 40960167.5/44

Out: 0.007+/-0.000 χ^2/NDF : 44754664.1/50

All: 0.007+/-0.000 χ^2/NDF : 85714859.3/95

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 144.139 $\pm$ 0.000 χ^2 /NDF: 1192625380.6/21

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

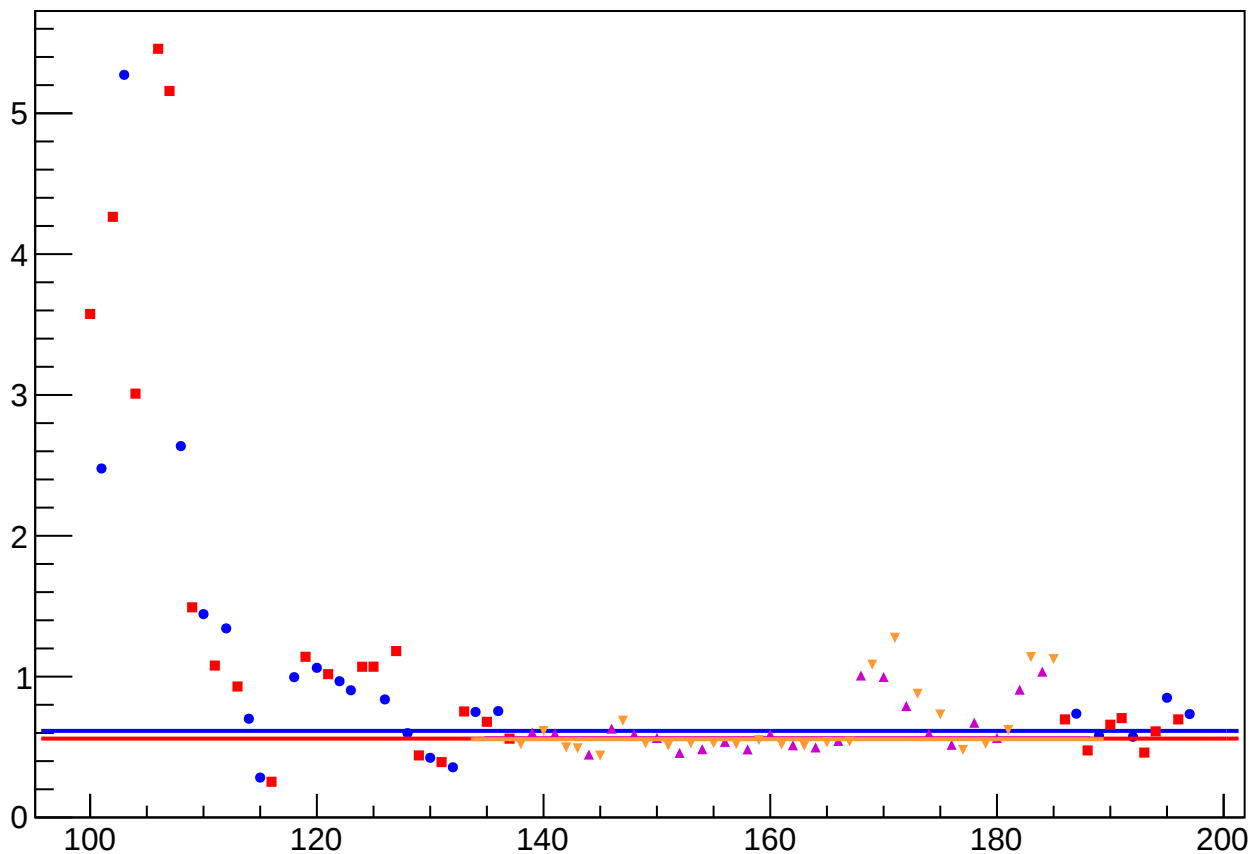
Right: 141.551 $\pm$ 0.000 χ^2 /NDF: 4290291651.0/47

In: 148.105 $\pm$ 0.000 χ^2 /NDF: 1951138932.4/44

Out: 146.871 $\pm$ 0.000 χ^2 /NDF: 4661303710.5/50

All: 147.445 $\pm$ 0.000 χ^2 /NDF: 6663758519.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.615 $\pm$ 0.000 χ^2 /NDF: 3643057.6/21

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

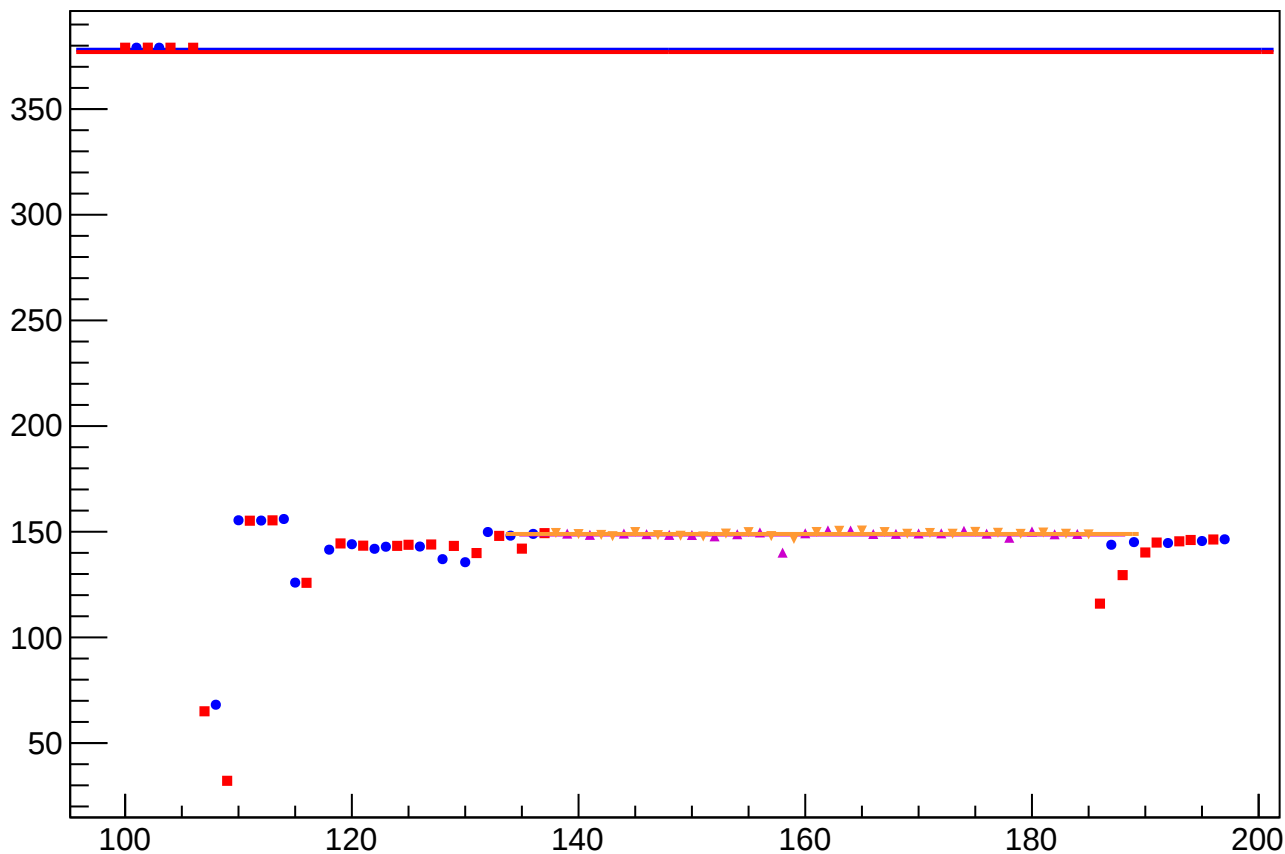
Right: 0.583 $\pm$ 0.000 χ^2 /NDF: 8562865.3/47

In: 0.575 $\pm$ 0.000 χ^2 /NDF:5018697.3/44

Out: 0.557 $\pm$ 0.000 χ^2 /NDF:6640035.9/50

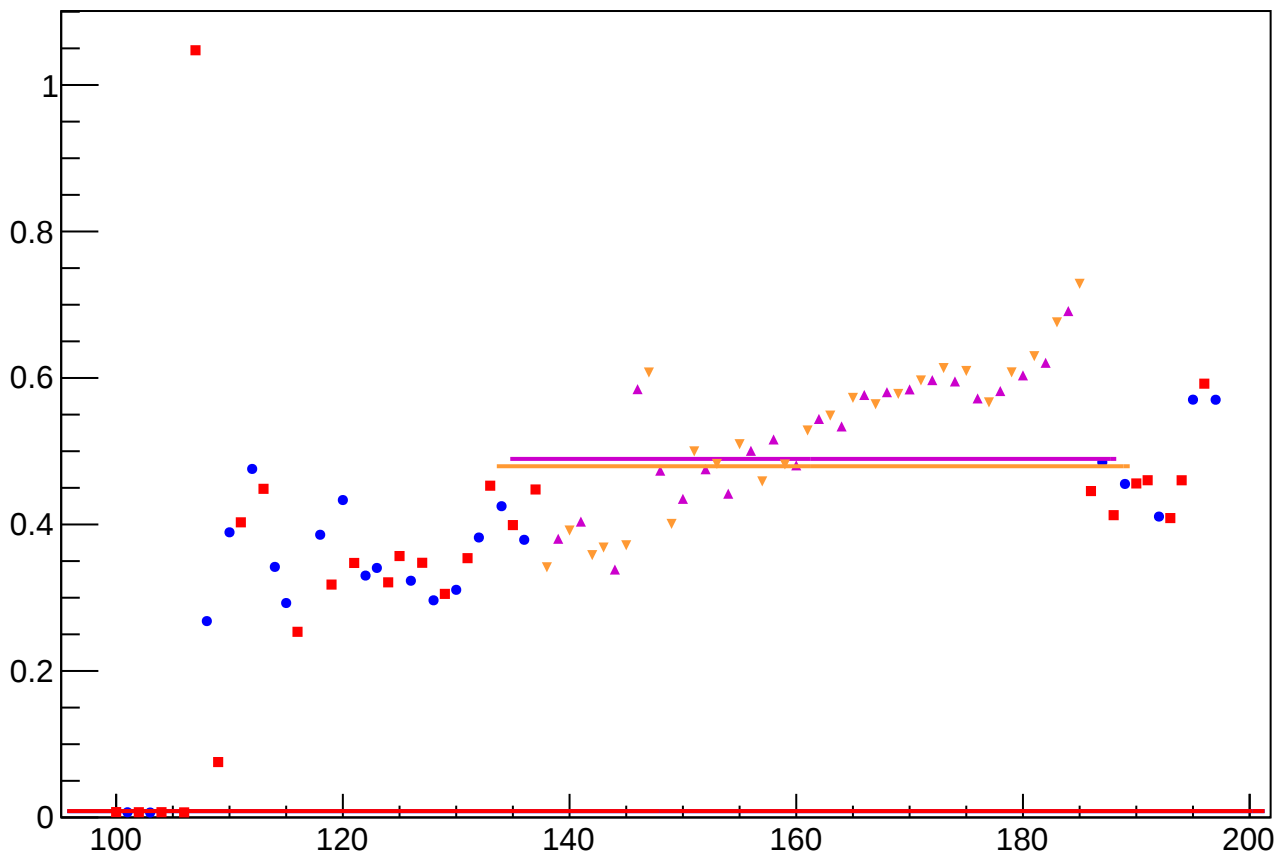
All: 0.565 $\pm$ 0.000 χ^2 /NDF: 11681037.5/95

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.077+/-0.000	χ^2/NDF : 3144582403891.1/21	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.492+/-0.000	χ^2/NDF : 12561447395341.1
Right Out: 376.978+/-0.000	χ^2/NDF : 9408286848603.2/25	In: 376.898+/-0.000	χ^2/NDF : 6752290329115.9/44
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.861+/-0.000	χ^2/NDF : 13281897880720.7
		All: 376.345+/-0.000	χ^2/NDF : 200418562759.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 15267032.4/21

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

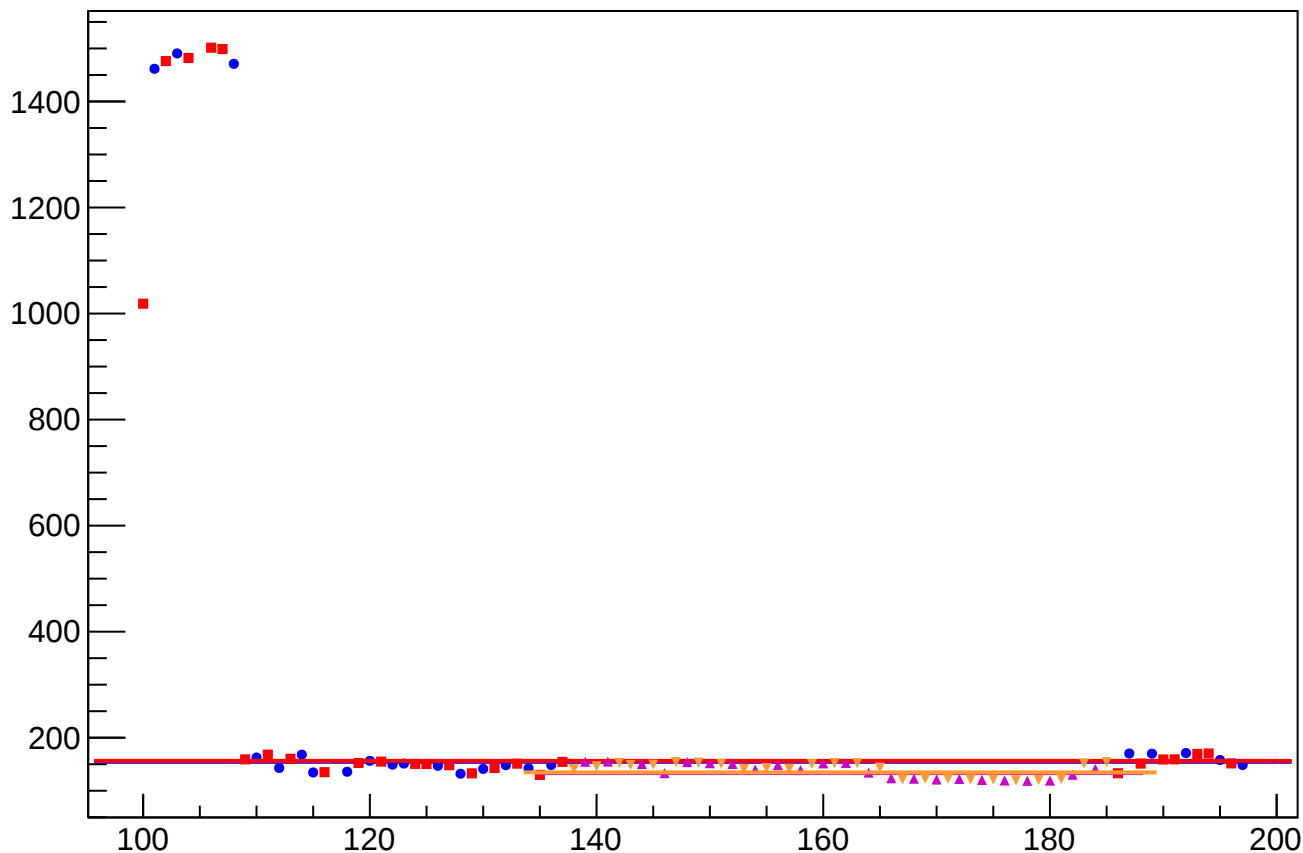
Right: 0.009+/-0.000 χ^2/NDF : 32515811.8/47

In: 0.011+/-0.000 χ^2/NDF :48075731.4/44

Out: 0.011+/-0.000 χ^2/NDF :51786964.7/50

All: 0.011+/-0.000 χ^2/NDF : 99862696.4/95

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.601+/-0.000

χ^2/NDF : 25430268571.6/21

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Right: 155.520+/-0.000

χ^2/NDF : 60091953360.1/47

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

In: 139.870+/-0.000

χ^2/NDF : 32988823266.6/44

Right Out: 156.239+/-0.000

χ^2/NDF : 34646312537.6/25

Out: 142.269+/-0.000

χ^2/NDF : 42984055710.8/50

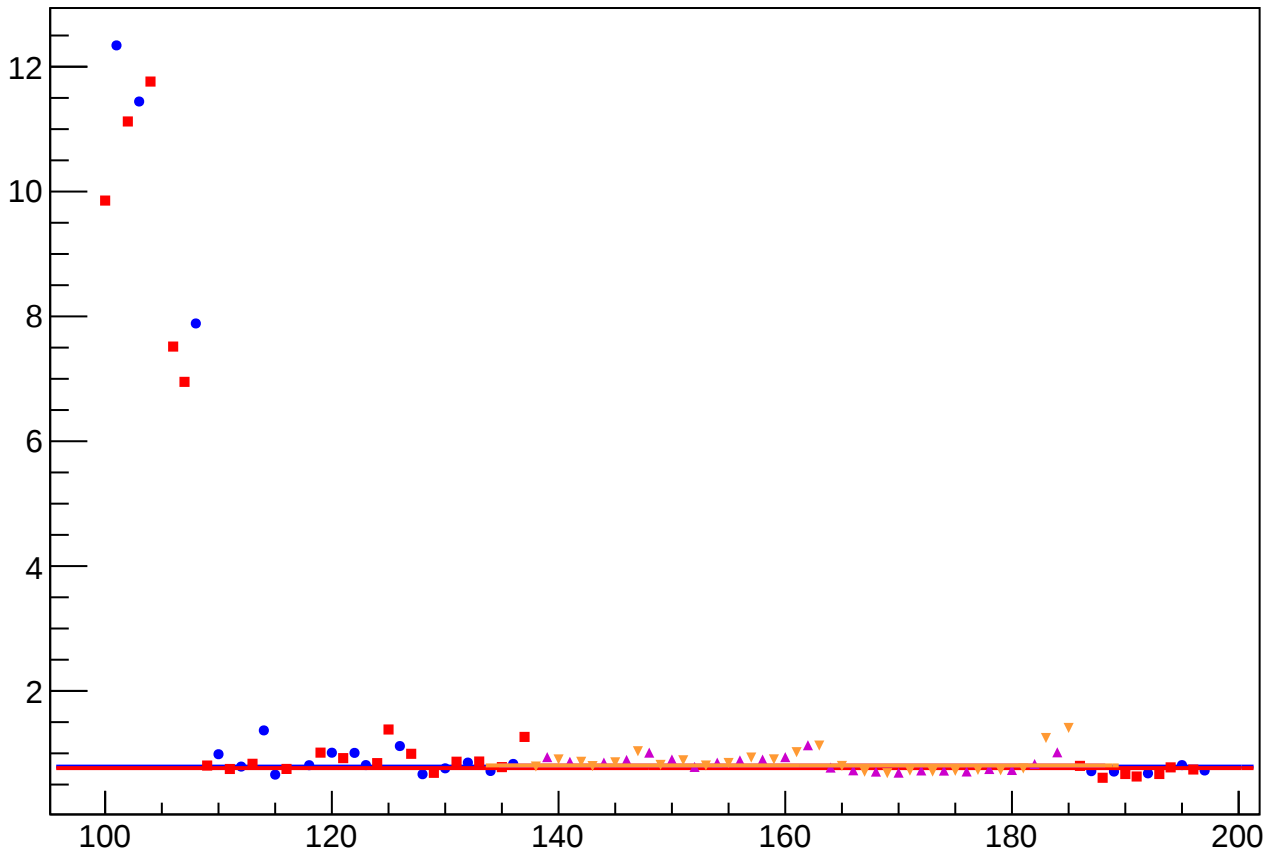
Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

All: 141.132+/-0.000

χ^2/NDF : 76073318446.6/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 2767508.2/21

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF: 704181.3/24

Right Out: 0.763 $\pm$ 0.000 χ^2 /NDF: 3124626.4/25

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF: 479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

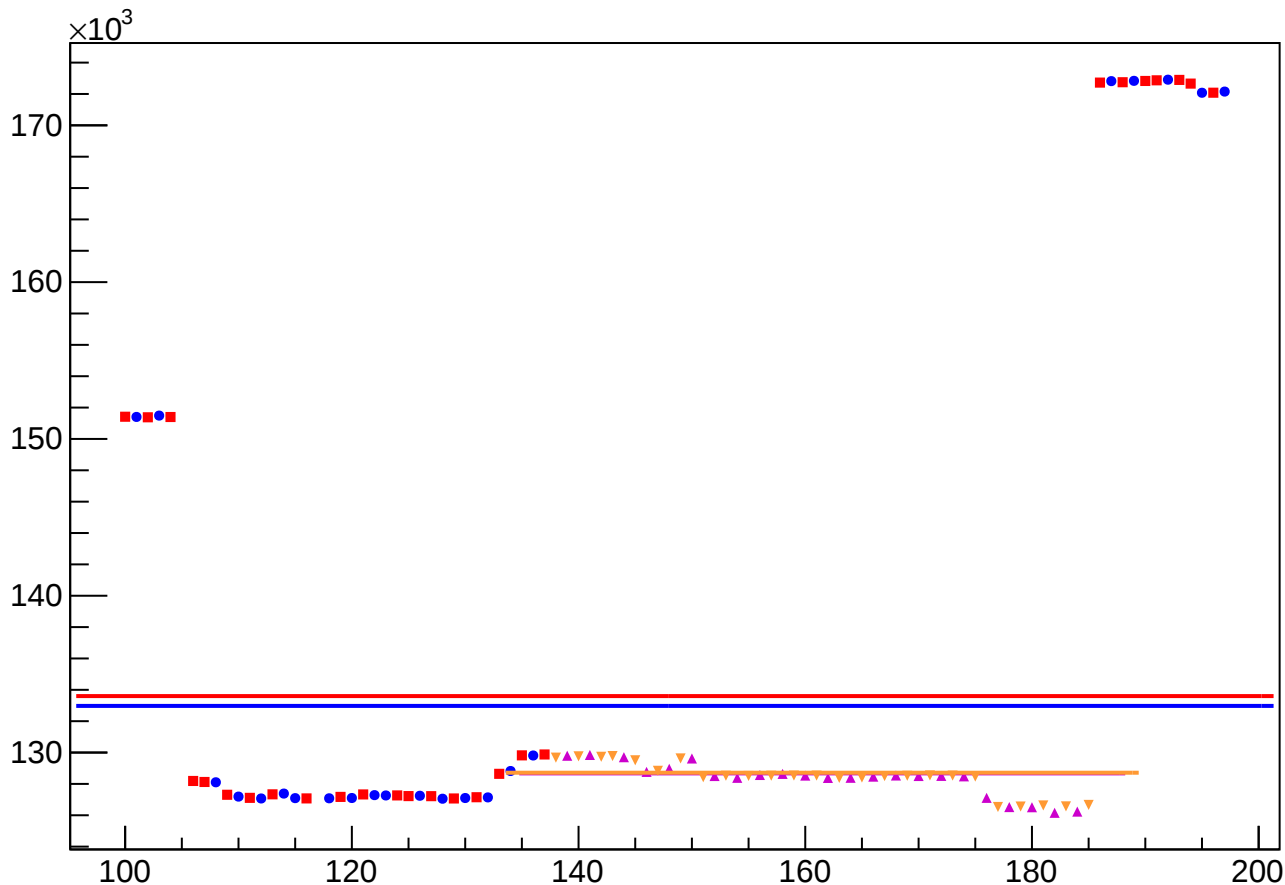
Right: 0.774 $\pm$ 0.000 χ^2 /NDF: 5898766.4/47

In: 0.799 $\pm$ 0.000 χ^2 /NDF: 3251316.0/44

Out: 0.791 $\pm$ 0.000 χ^2 /NDF: 3860322.9/50

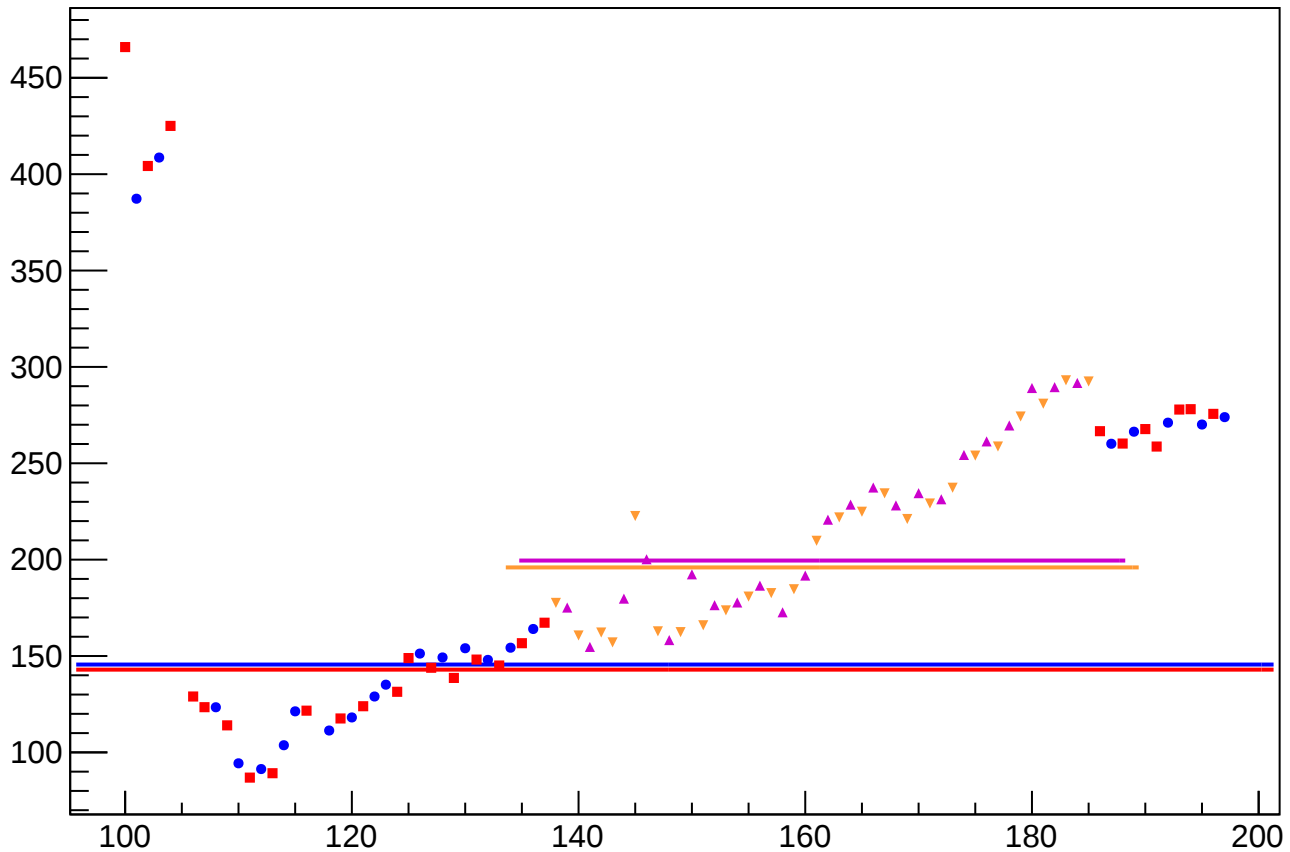
All: 0.795 $\pm$ 0.000 χ^2 /NDF: 7113847.7/95

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 132974.261 $\pm$ 0.052 χ^2 /NDF: 78032297581.3/21
 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: 133315.545 $\pm$ 0.035 χ^2 /NDF: 181830542488
 In: 130707.750 $\pm$ 0.035 χ^2 /NDF: 82044910937.1/47
 Out: 131134.929 $\pm$ 0.033 χ^2 /NDF: 109502466228
 All: 130935.642 $\pm$ 0.024 χ^2 /NDF: 191624900

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 145.569+/-0.036 χ^2/NDF : 2952674.3/21

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

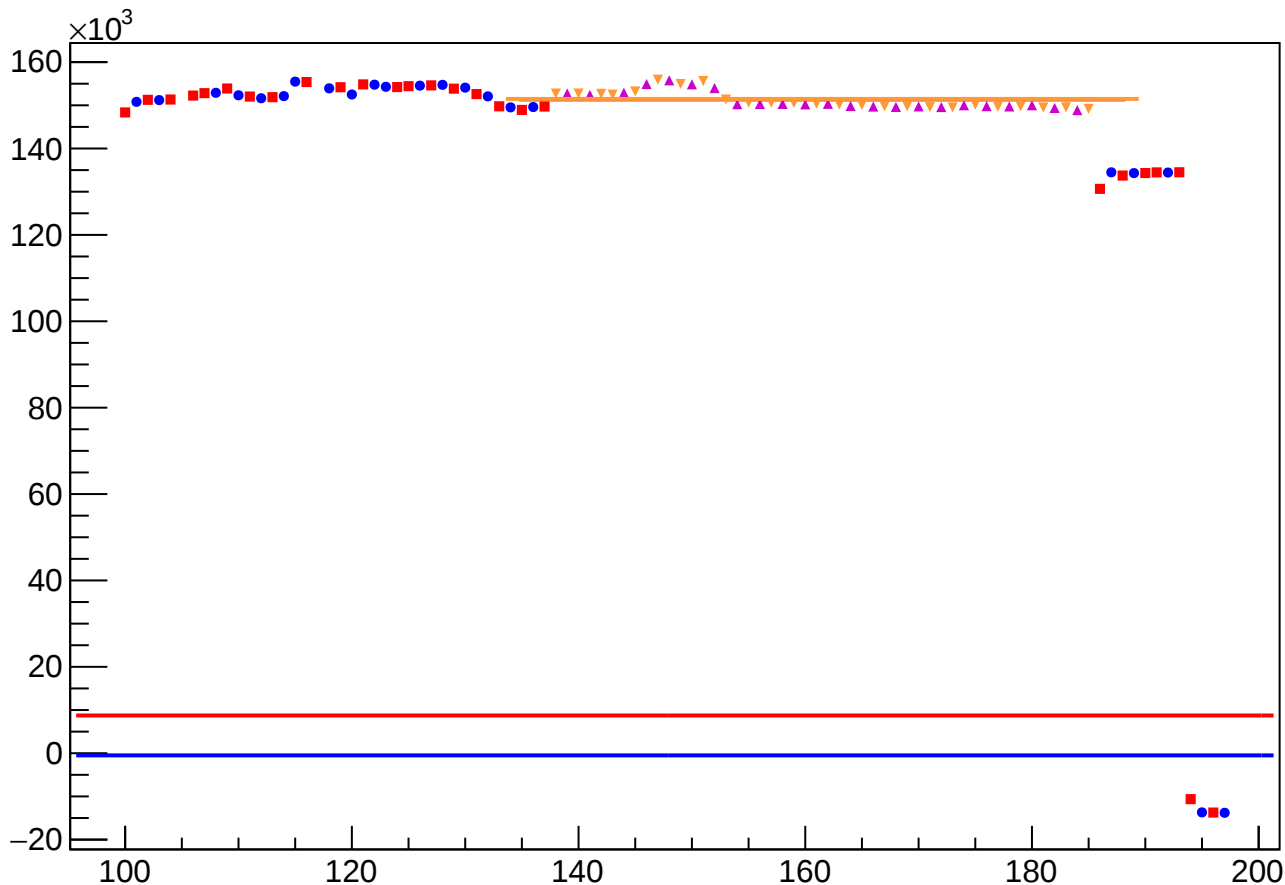
Right: 144.130+/-0.025 χ^2/NDF : 6615998.7/47

In: 173.985+/-0.025 χ^2/NDF : 5284172.7/44

Out: 169.688+/-0.023 χ^2/NDF : 6257154.1/50

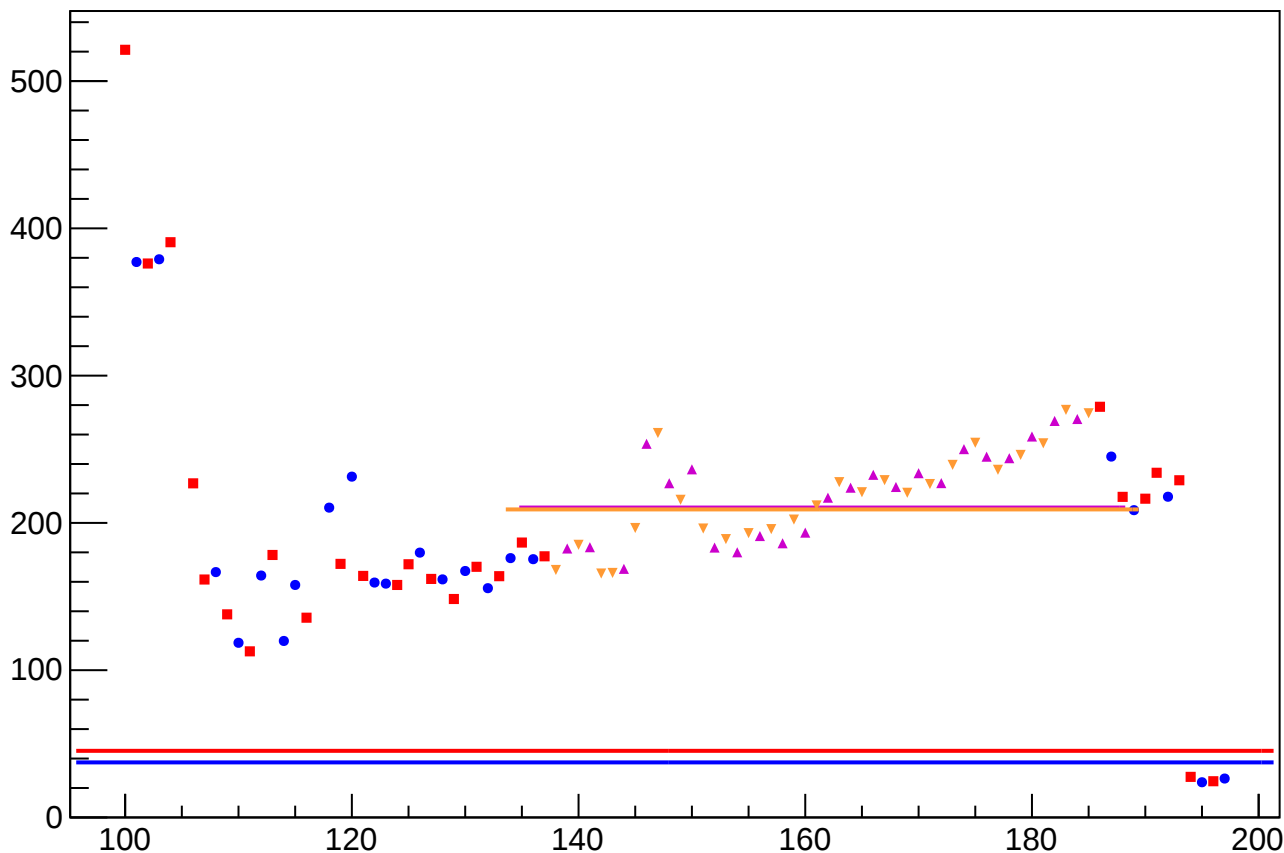
All: 171.693+/-0.017 χ^2/NDF : 11557008.7/95

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -500.768 ± 0.019 $\chi^2/\text{NDF}: 5488867509372.1/21$
 Left Out: 151480.339 ± 0.049 $\chi^2/\text{NDF}: 1483692735.3/24$
 Right Out: 8736.579 ± 0.022 $\chi^2/\text{NDF}: 6343896202639.8/25$
 Left In: 151362.440 ± 0.051 $\chi^2/\text{NDF}: 1426782789.9/22$
 Left: 151423.440 ± 0.036 $\chi^2/\text{NDF}: 2913216467.1/21$
 Right: 3479.704 ± 0.014 $\chi^2/\text{NDF}: 11933881072981$
 In: 17983.693 ± 0.018 $\chi^2/\text{NDF}: 13210046221537$
 Out: 32150.809 ± 0.020 $\chi^2/\text{NDF}: 13305037665034$
 All: 24260.543 ± 0.013 $\chi^2/\text{NDF}: 2679352487$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 37.382 ± 0.013 $\chi^2/\text{NDF}: 10684564.0/21$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 45.239 ± 0.015 $\chi^2/\text{NDF}: 12054465.1/25$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

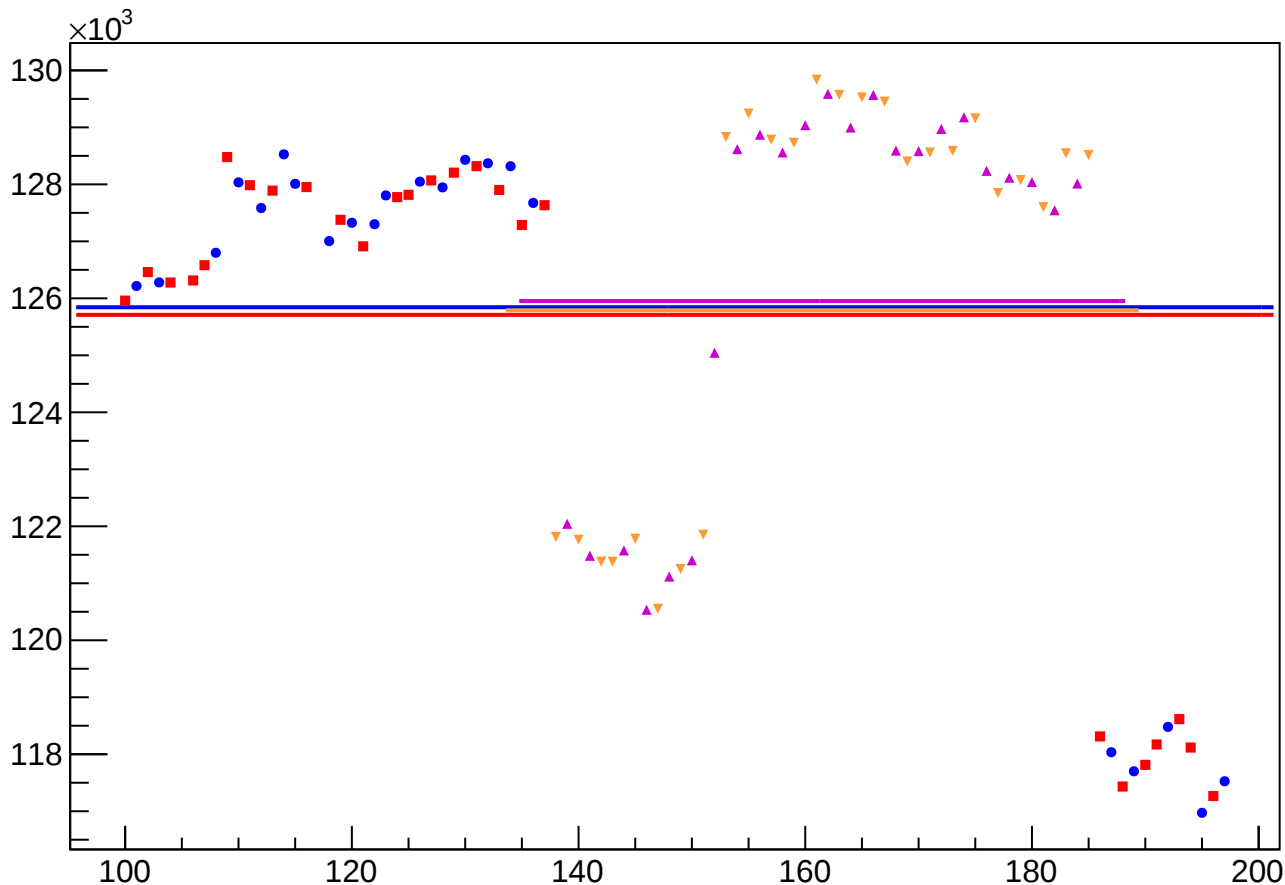
Right: 40.768 ± 0.010 $\chi^2/\text{NDF}: 22885323.7/47$

In: 58.445 ± 0.013 $\chi^2/\text{NDF}: 31416220.4/44$

Out: 72.126 ± 0.014 $\chi^2/\text{NDF}: 31119401.4/50$

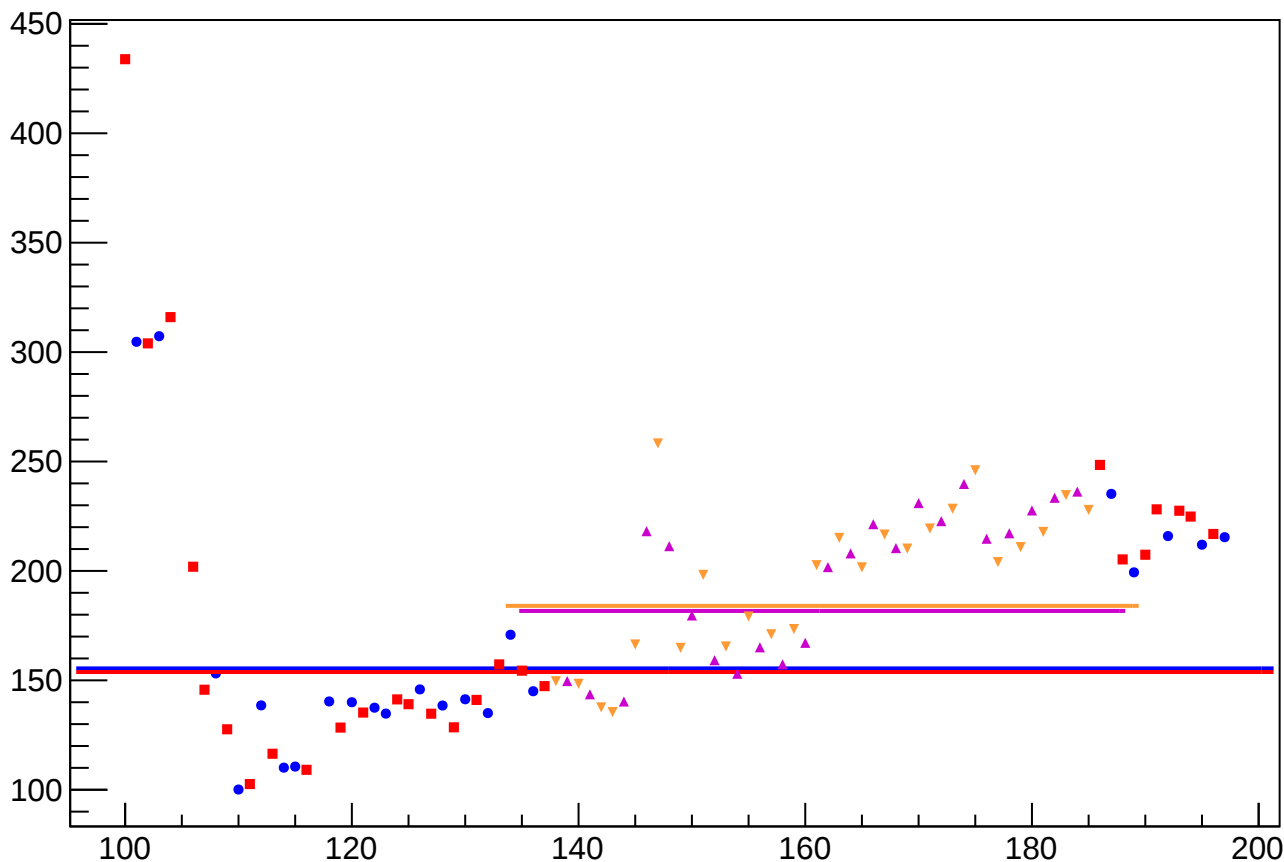
All: 64.507 ± 0.009 $\chi^2/\text{NDF}: 63054923.8/95$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125843.756 $\pm$ 0.053	χ^2 /NDF: 5615560553.1/21	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/21
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 125771.724 $\pm$ 0.036	χ^2 /NDF: 12429401699.3/24
Right Out: 125710.249 $\pm$ 0.049	χ^2 /NDF: 6810374488.7/25	In: 125906.983 $\pm$ 0.034	χ^2 /NDF: 11459838151.8/25
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125754.227 $\pm$ 0.033	χ^2 /NDF: 13556168339.6/22
		All: 125827.297 $\pm$ 0.024	χ^2 /NDF: 250264965.0/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 155.463 $\pm$ 0.037 χ^2 /NDF: 1388557.8/21

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 153.805 $\pm$ 0.034 χ^2 /NDF: 1912249.2/25

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF: 1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

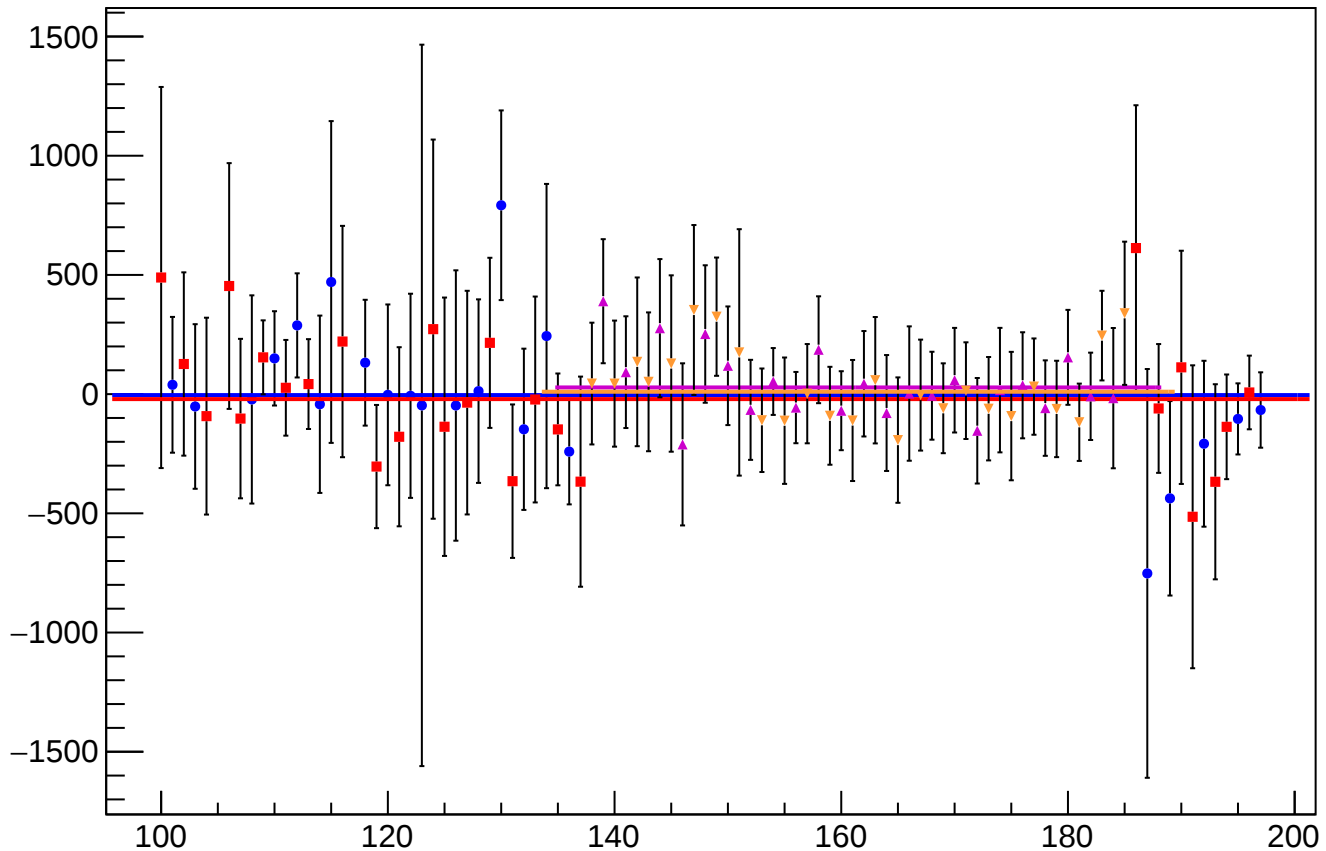
Right: 154.568 $\pm$ 0.025 χ^2 /NDF: 3301876.1/47

In: 170.733 $\pm$ 0.024 χ^2 /NDF: 2793711.6/44

Out: 170.446 $\pm$ 0.023 χ^2 /NDF: 3463720.0/50

All: 170.583 $\pm$ 0.017 χ^2 /NDF: 6257506.0/95

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -4.010 ± 62.316 χ^2/NDF : 11.5/21

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -20.878 ± 58.204 χ^2/NDF : 10.1/25

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

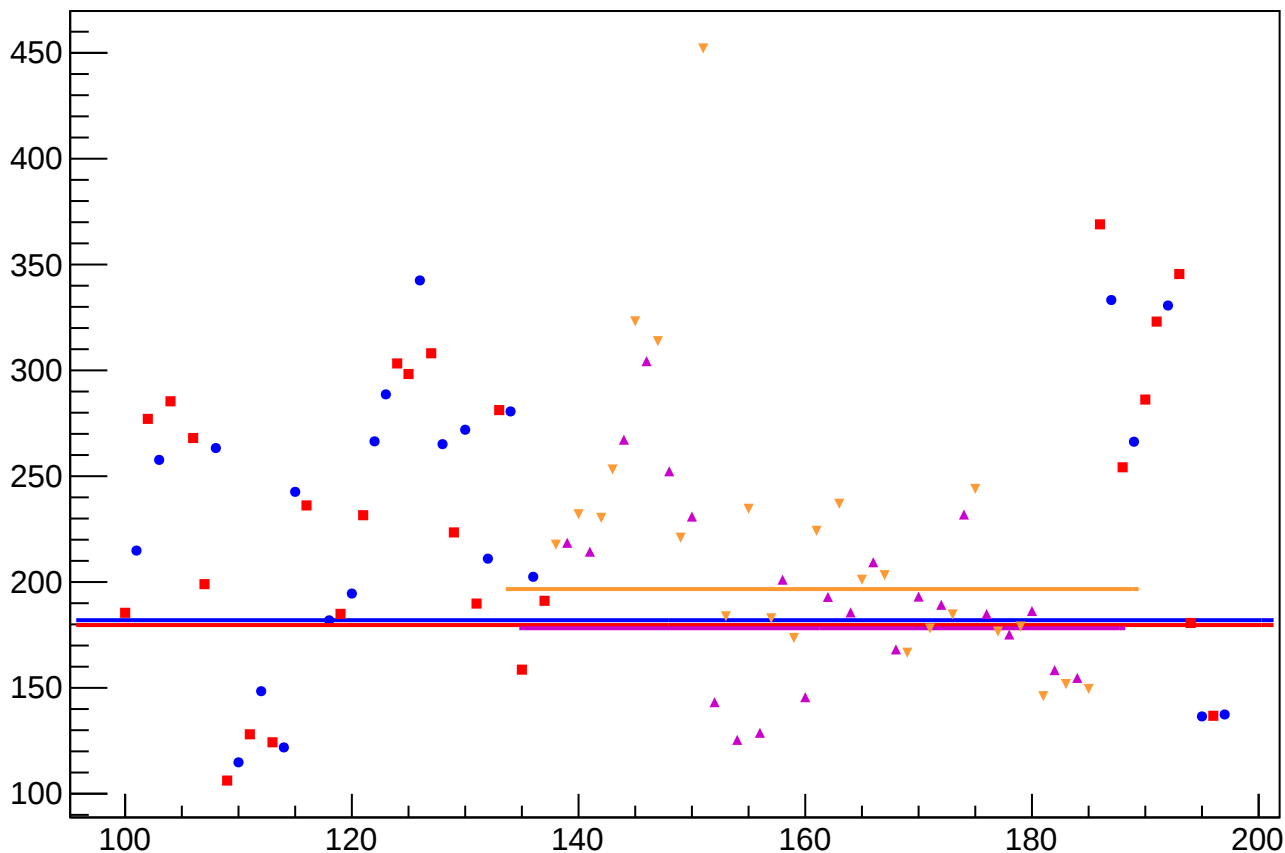
Right: -13.019 ± 42.536 χ^2/NDF : 21.7/47

In: 17.199 ± 36.253 χ^2/NDF : 18.7/44

Out: -2.293 ± 36.795 χ^2/NDF : 18.7/50

All: 7.597 ± 25.824 χ^2/NDF : 37.5/95

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 181.972 $\pm$ 0.044 χ^2 /NDF: 1921573.5/21

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

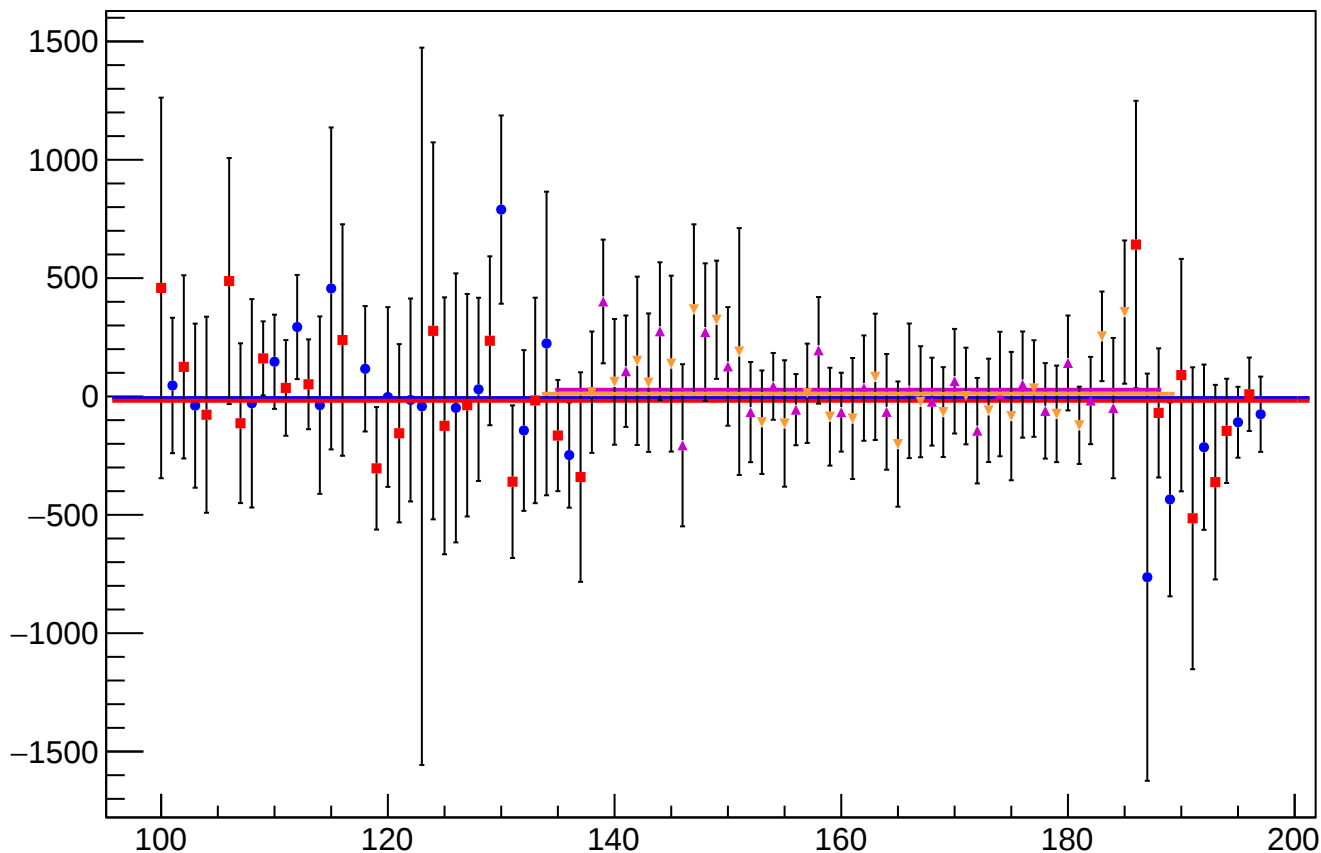
Right: 180.746 $\pm$ 0.030 χ^2 /NDF: 4552800.6/47

In: 179.454 $\pm$ 0.026 χ^2 /NDF:3545477.6/44

Out: 189.885 $\pm$ 0.026 χ^2 /NDF:4514988.8/50

All: 184.592 $\pm$ 0.018 χ^2 /NDF: 8142034.2/95

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -6.761 ± 62.611 χ^2/NDF : 11.6/21

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -17.942 ± 58.509 χ^2/NDF : 10.3/25

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

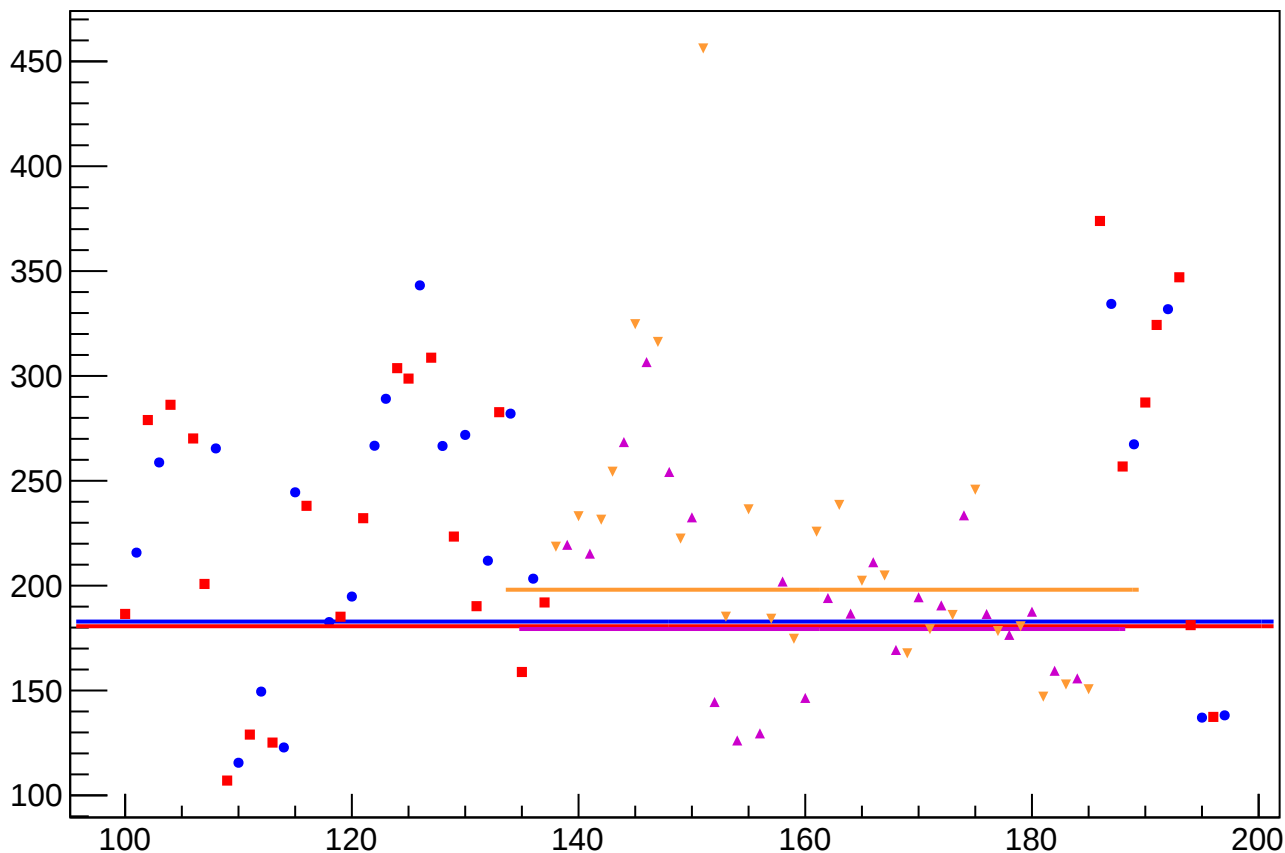
Right: -12.730 ± 42.749 χ^2/NDF : 21.9/47

In: 16.392 ± 36.468 χ^2/NDF : 18.9/44

Out: -0.303 ± 37.026 χ^2/NDF : 19.3/50

All: 8.171 ± 25.982 χ^2/NDF : 38.3/95

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 182.874 $\pm$ 0.044 χ^2 /NDF: 1912659.2/21

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

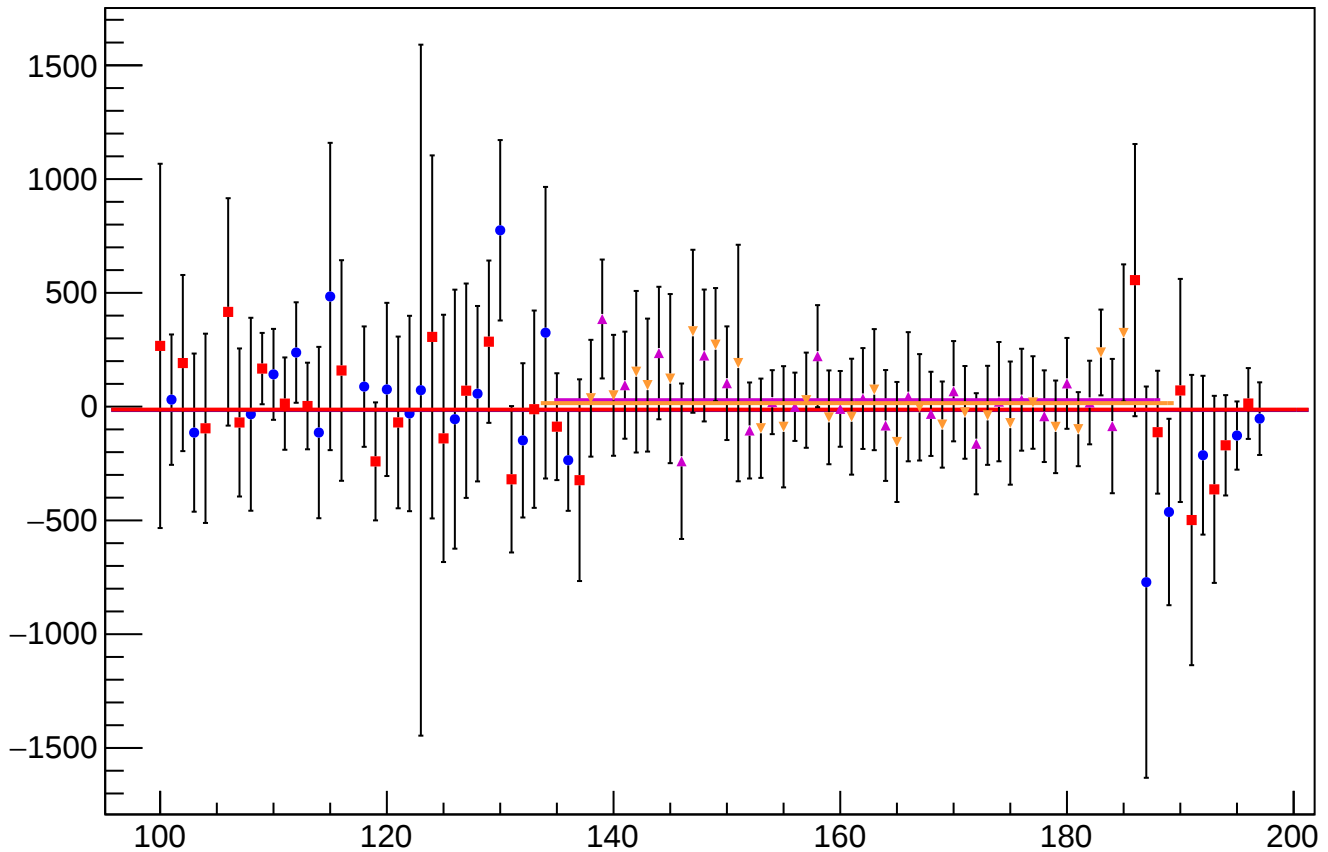
Right: 181.685 $\pm$ 0.030 χ^2 /NDF: 4537582.0/47

In: 180.528 $\pm$ 0.026 χ^2 /NDF:3535175.2/44

Out: 191.085 $\pm$ 0.026 χ^2 /NDF:4508305.0/50

All: 185.727 $\pm$ 0.018 χ^2 /NDF: 8126010.7/95

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -14.970 $\pm$ 62.663 χ^2/NDF : 11.2/21

Left Out: 15.437 $\pm$ 47.695 χ^2/NDF : 7.0/24

Right Out: -13.118 $\pm$ 58.458 χ^2/NDF : 8.8/25

Left In: 28.277 $\pm$ 44.743 χ^2/NDF : 6.4/22

Left: 22.267 $\pm$ 32.632 χ^2/NDF : 13.4/47

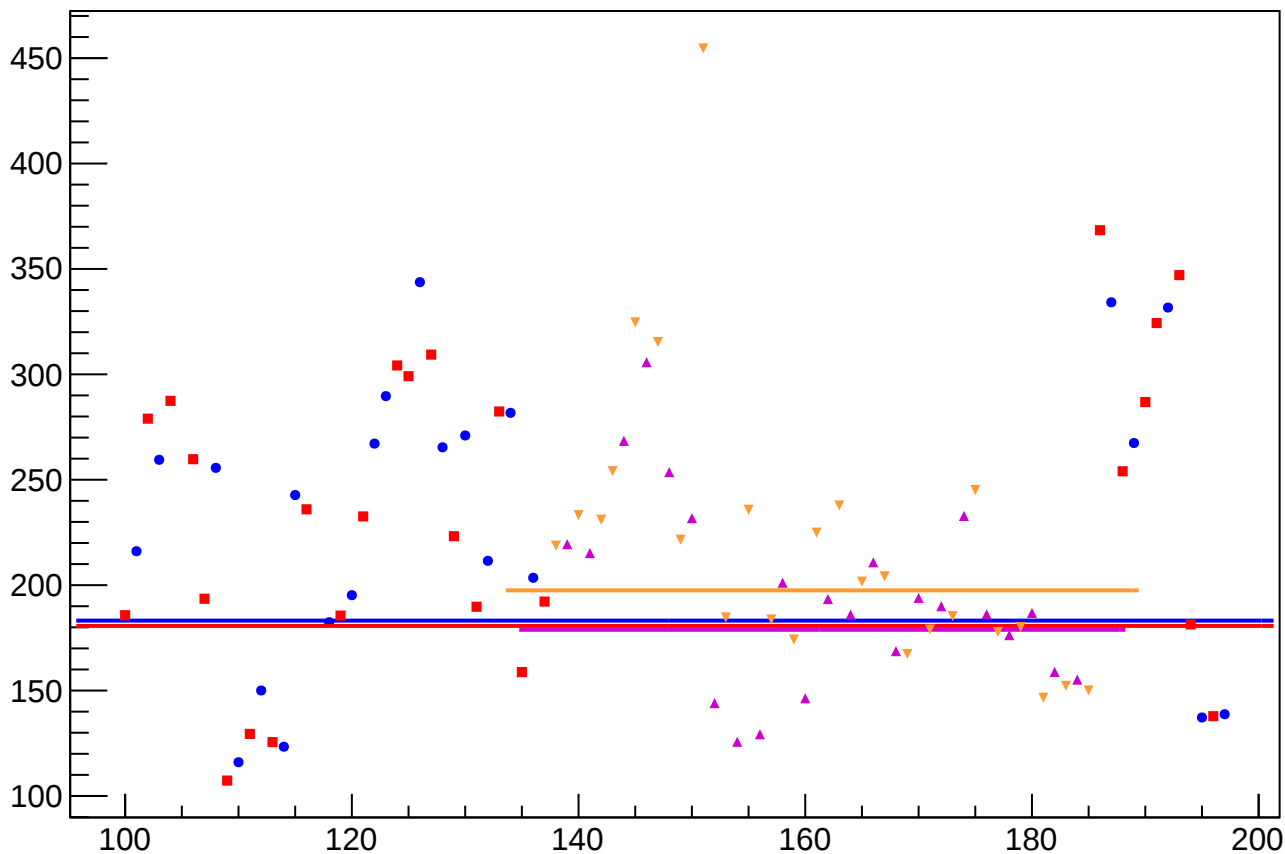
Right: -13.980 $\pm$ 42.745 χ^2/NDF : 20.0/47

In: 13.673 $\pm$ 36.414 χ^2/NDF : 17.9/44

Out: 4.025 $\pm$ 36.955 χ^2/NDF : 15.9/50

All: 8.921 $\pm$ 25.938 χ^2/NDF : 33.9/95

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 183.179+/-0.044 χ^2/NDF : 1883974.9/21

Left Out: 197.527+/-0.034 χ^2/NDF :1784225.5/24

Right Out: 180.671+/-0.041 χ^2/NDF : 2582354.4/25

Left In: 178.836+/-0.032 χ^2/NDF :1622266.9/22

Left: 187.585+/-0.023 χ^2/NDF : 3569877.1/47

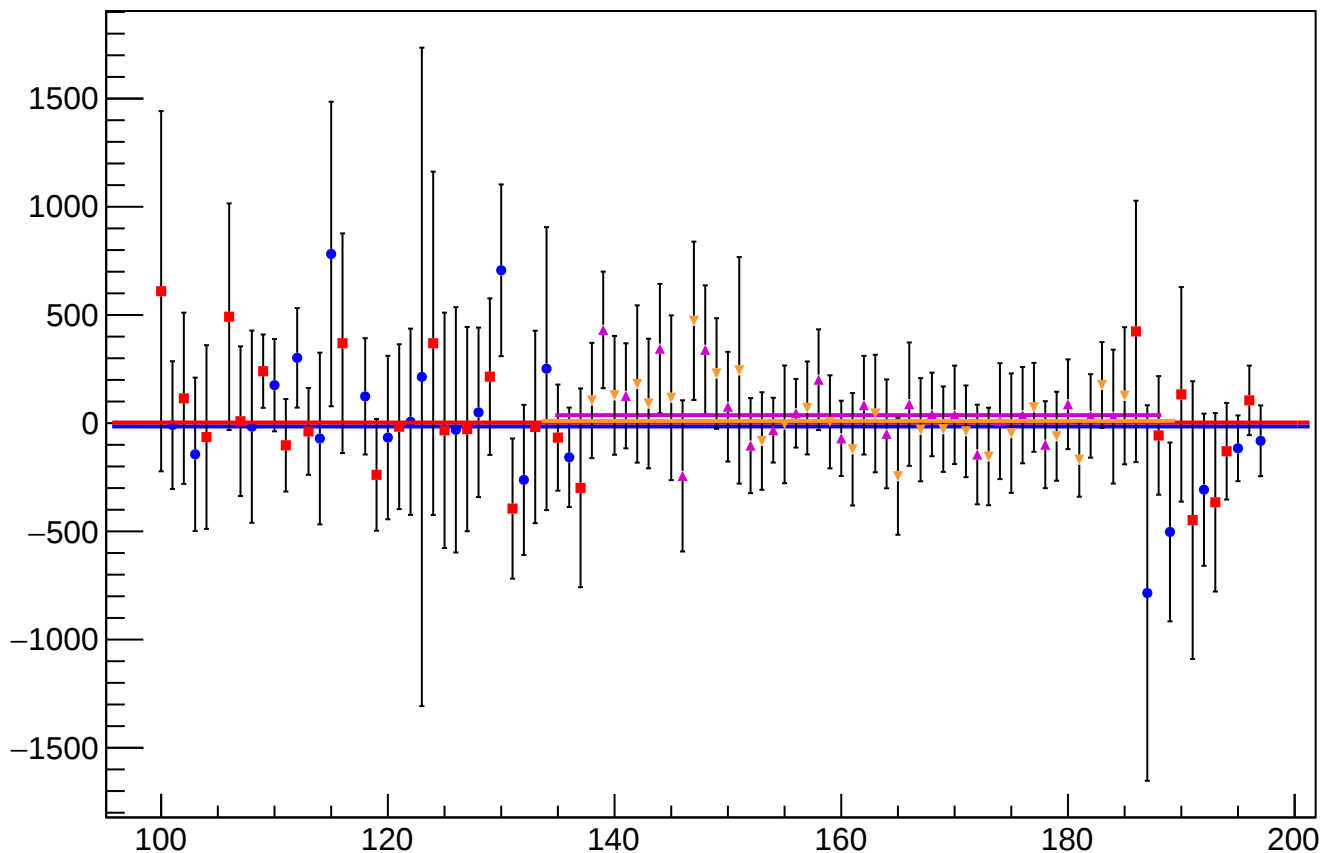
Right: 181.838+/-0.030 χ^2/NDF : 4468042.8/47

In: 180.302+/-0.026 χ^2/NDF :3512606.0/44

Out: 190.791+/-0.026 χ^2/NDF :4466418.0/50

All: 185.469+/-0.018 χ^2/NDF : 8060763.8/95

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -15.106 ± 64.284 χ^2/NDF : 12.3/21

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: 3.212 ± 60.512 χ^2/NDF : 10.4/25

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

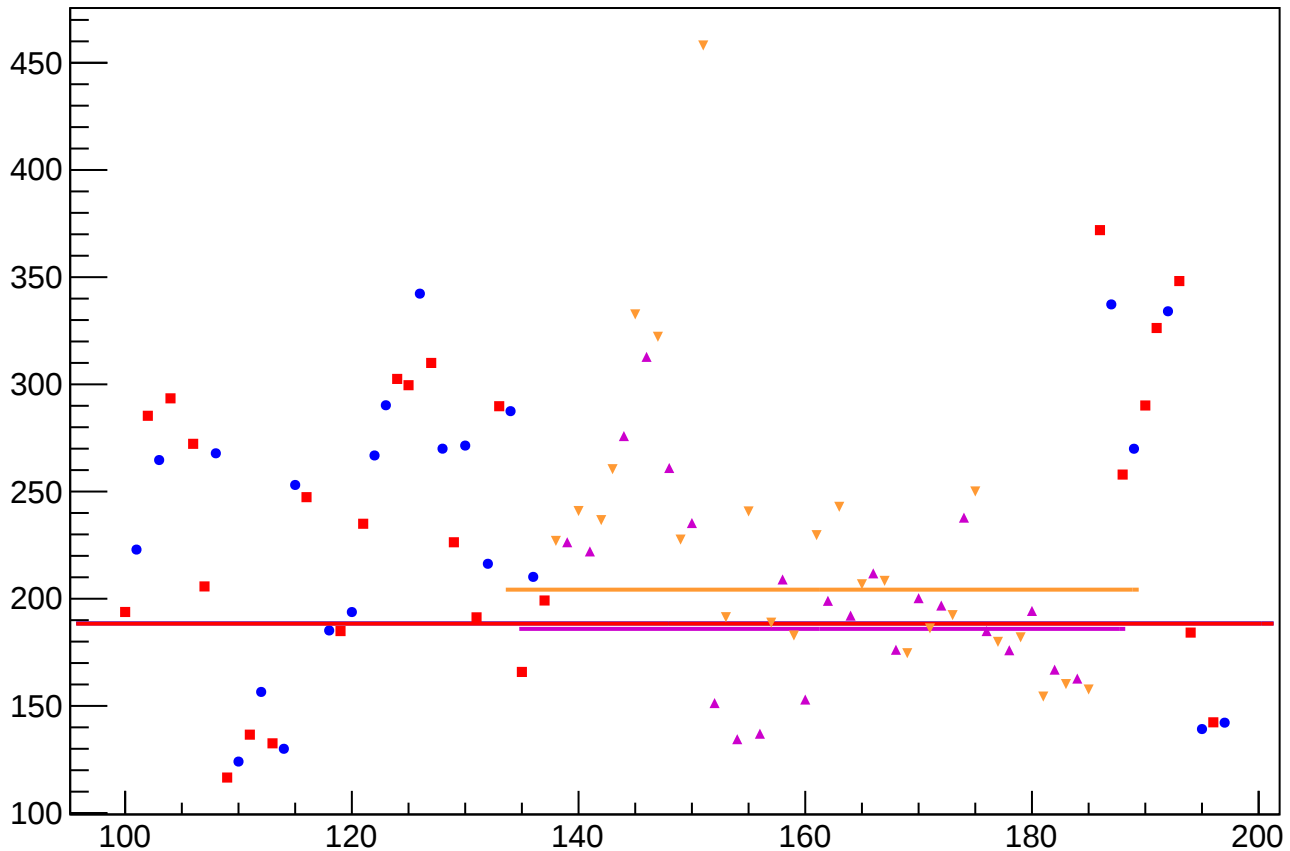
Right: -5.394 ± 44.062 χ^2/NDF : 22.8/47

In: 19.173 ± 37.601 χ^2/NDF : 20.6/44

Out: 7.620 ± 38.173 χ^2/NDF : 17.9/50

All: 13.484 ± 26.788 χ^2/NDF : 38.5/95

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 188.490 $\pm$ 0.045 χ^2 /NDF: 1789194.1/21

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

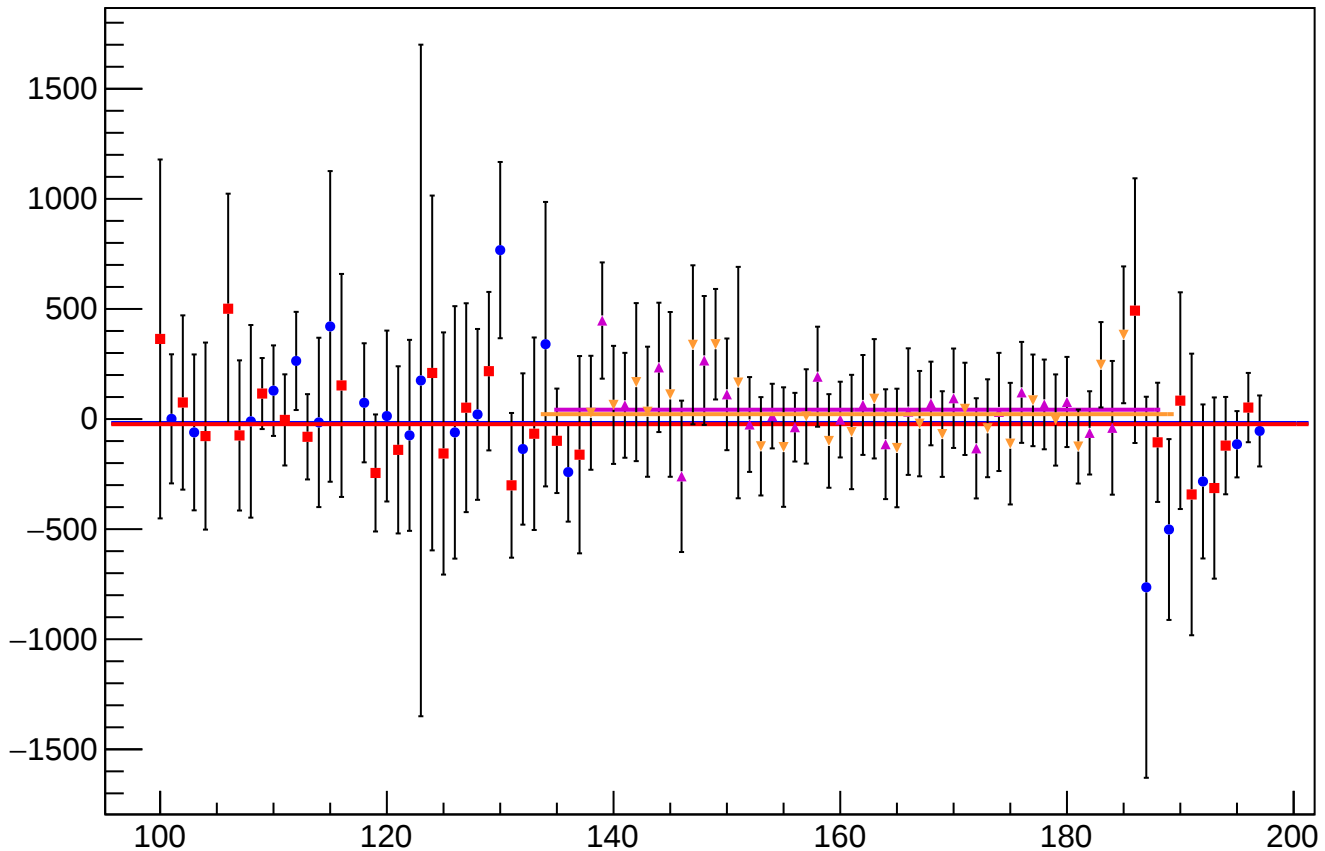
Right: 188.429 $\pm$ 0.031 χ^2 /NDF: 4135152.9/47

In: 186.807 $\pm$ 0.027 χ^2 /NDF:3251343.5/44

Out: 197.924 $\pm$ 0.027 χ^2 /NDF:4104353.3/50

All: 192.281 $\pm$ 0.019 χ^2 /NDF: 7441792.5/95

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -17.849 ± 63.497 χ^2/NDF : 11.1/21

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -23.331 ± 59.434 χ^2/NDF : 6.7/25

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

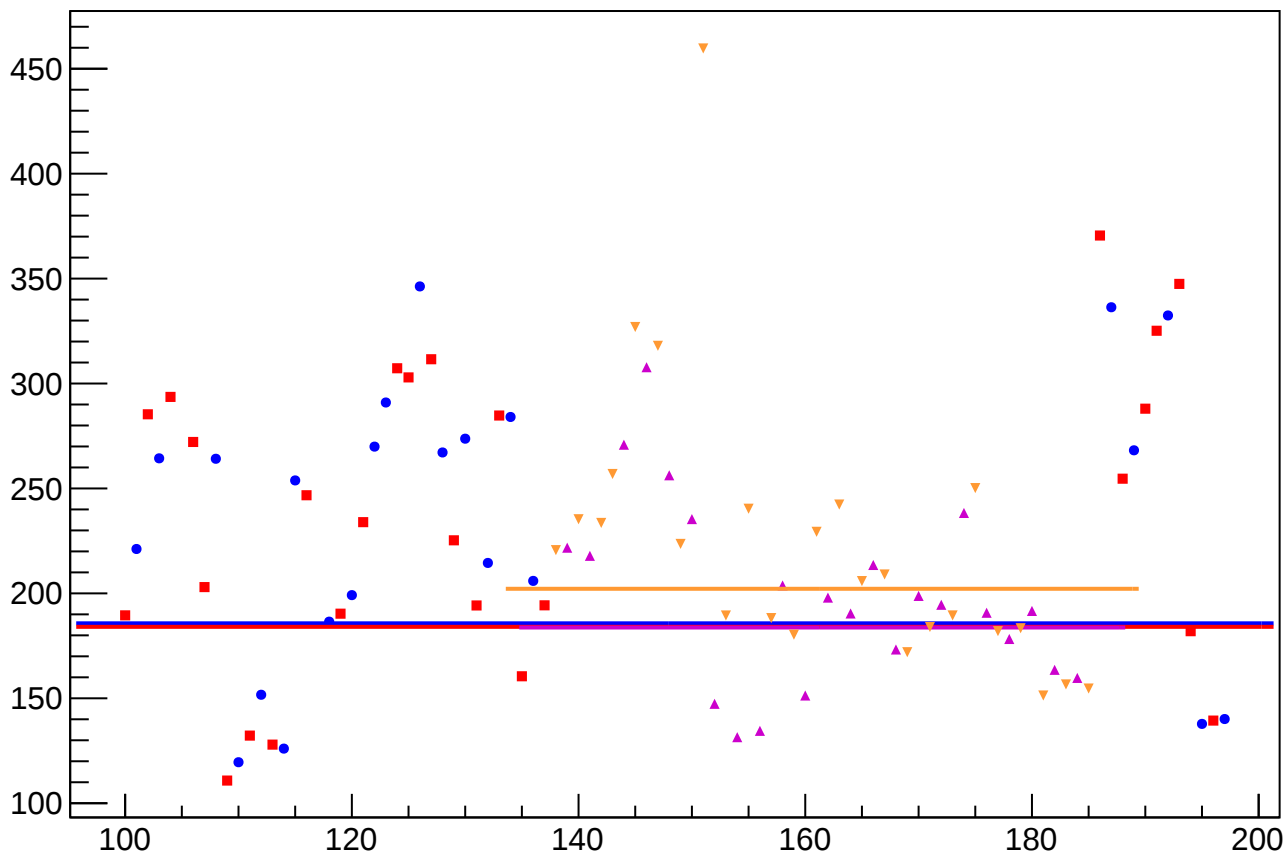
Right: -20.771 ± 43.391 χ^2/NDF : 17.8/47

In: 21.776 ± 37.178 χ^2/NDF : 18.4/44

Out: 3.886 ± 37.687 χ^2/NDF : 15.4/50

All: 12.953 ± 26.467 χ^2/NDF : 33.9/95

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 185.731+/-0.045 χ^2/NDF : 1873945.5/21

Left Out: 202.186+/-0.034 χ^2/NDF : 1696571.9/24

Right Out: 184.058+/-0.042 χ^2/NDF : 2530763.6/25

Left In: 183.732+/-0.032 χ^2/NDF : 1495930.4/22

Left: 192.398+/-0.024 χ^2/NDF : 3344580.1/47

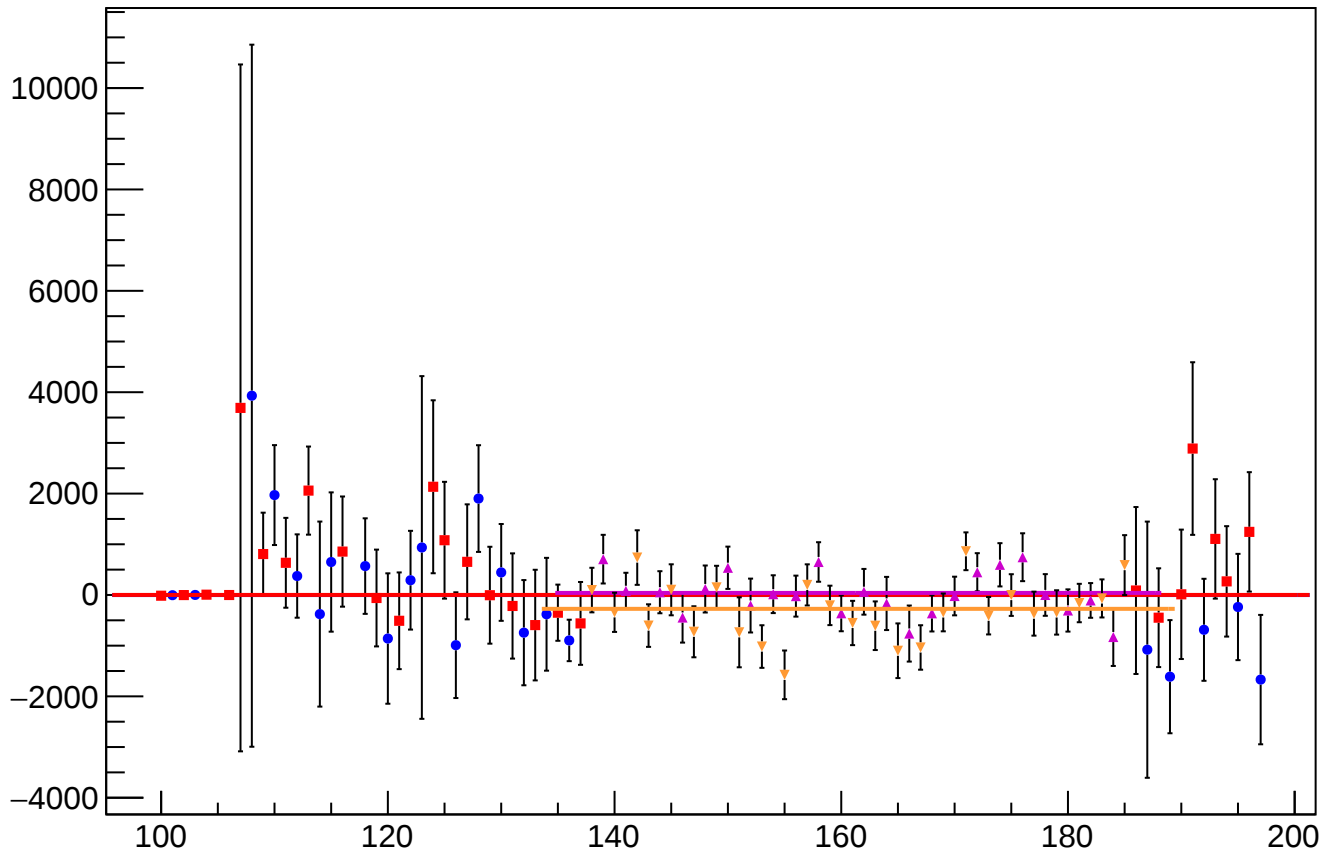
Right: 184.839+/-0.031 χ^2/NDF : 4405449.4/47

In: 184.417+/-0.026 χ^2/NDF : 3371178.1/44

Out: 194.897+/-0.027 χ^2/NDF : 4338594.2/50

All: 189.586+/-0.019 χ^2/NDF : 7788147.1/95

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.546 ± 2.251 χ^2/NDF : 21.4/21

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

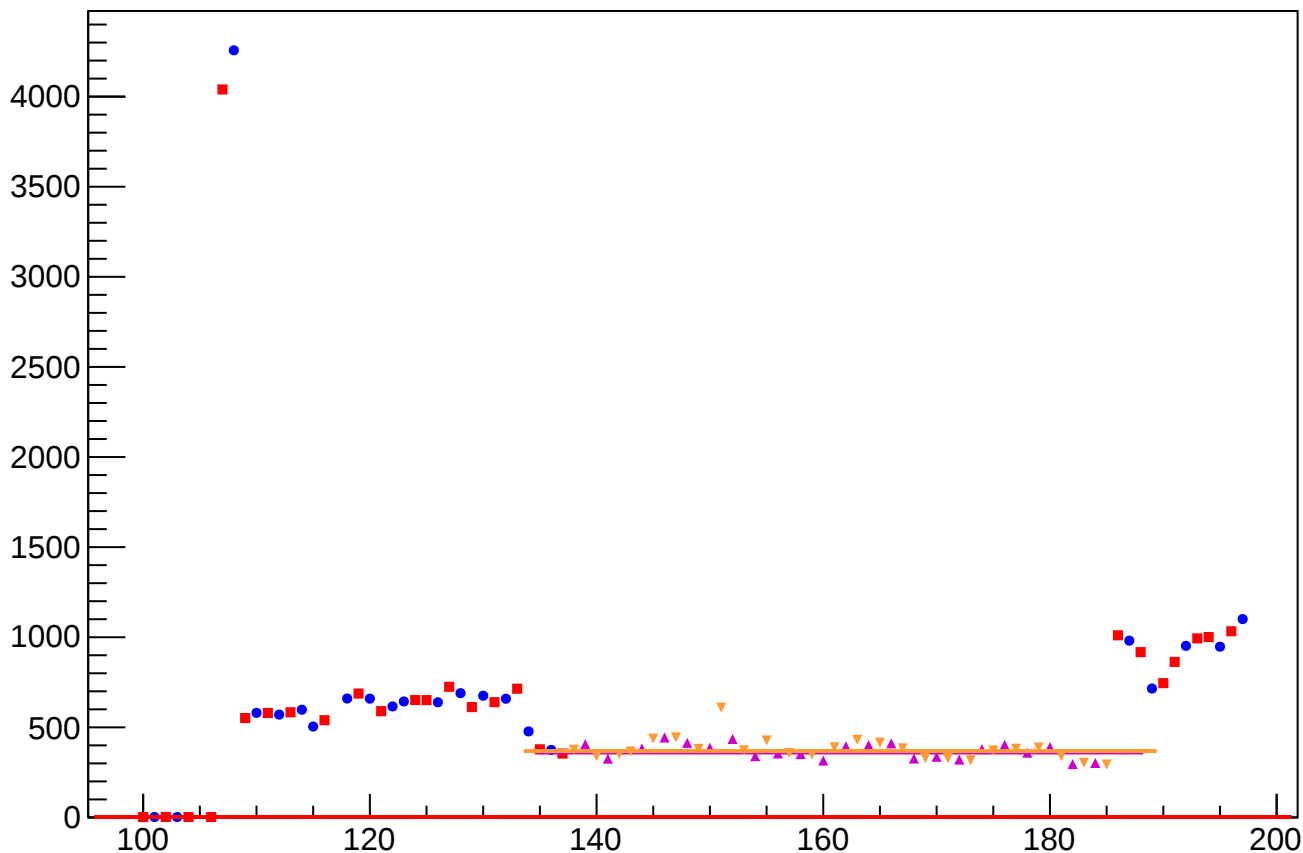
Right: -0.328 ± 1.540 χ^2/NDF : 45.3/47

In: -1.518 ± 2.251 χ^2/NDF : 41.8/44

Out: 0.580 ± 2.110 χ^2/NDF : 71.7/50

All: -0.402 ± 1.540 χ^2/NDF : 113.9/95

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.472 $\pm$ 0.002 χ^2 /NDF: 16671839.2/21

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

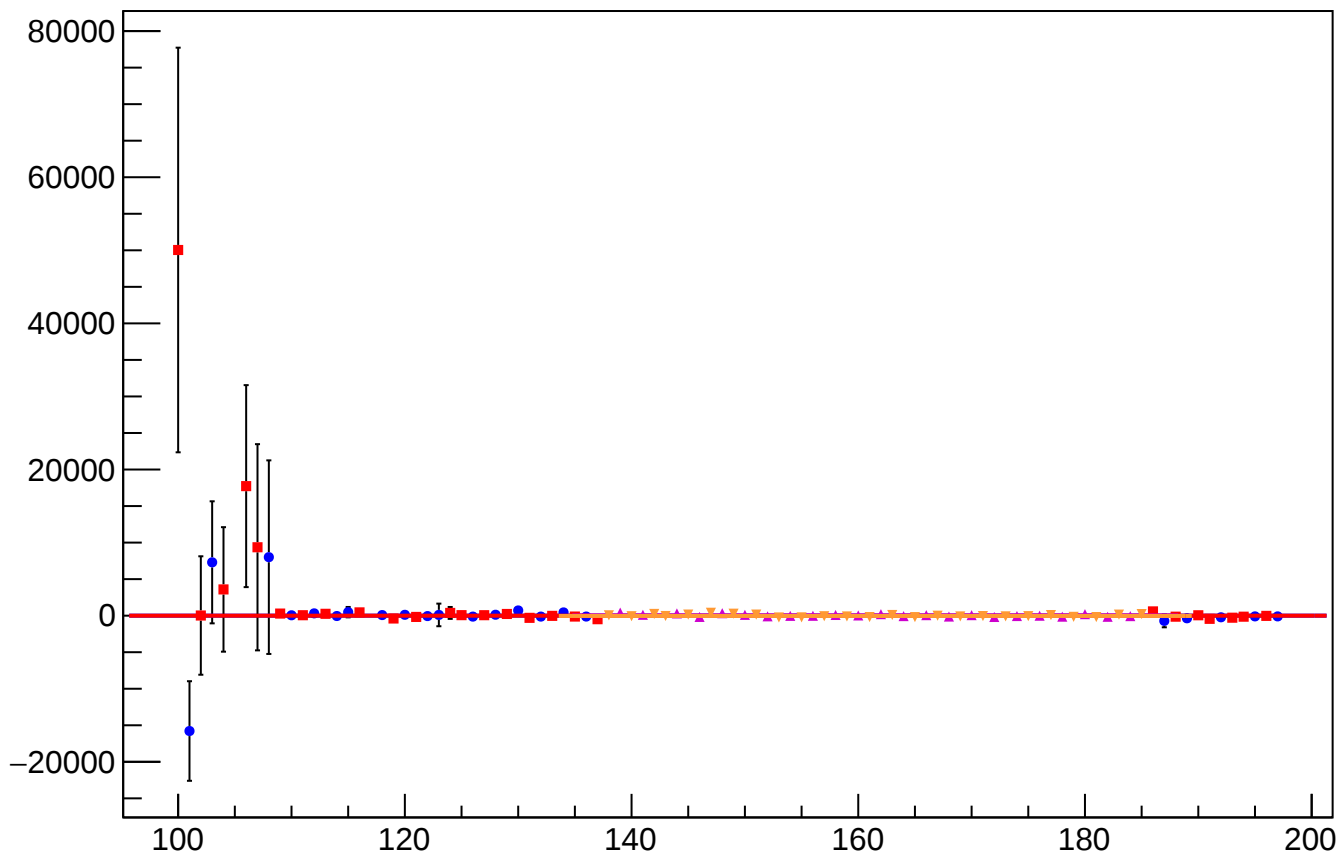
Right: 2.464 $\pm$ 0.001 χ^2 /NDF: 36098856.4/47

In: 2.709 $\pm$ 0.002 χ^2 /NDF: 50592807.0/44

Out: 2.672 $\pm$ 0.001 χ^2 /NDF: 55540109.9/50

All: 2.689 $\pm$ 0.001 χ^2 /NDF: 106133205.5/95

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 1.591 ± 70.539 $\chi^2/\text{NDF}: 15.6/21$

Left Out: -39.036 ± 49.576 $\chi^2/\text{NDF}: 9.1/24$

Right Out: -2.510 ± 67.908 $\chi^2/\text{NDF}: 16.8/25$

Left In: 28.062 ± 48.032 $\chi^2/\text{NDF}: 9.6/22$

Left: -4.426 ± 34.497 $\chi^2/\text{NDF}: 19.7/47$

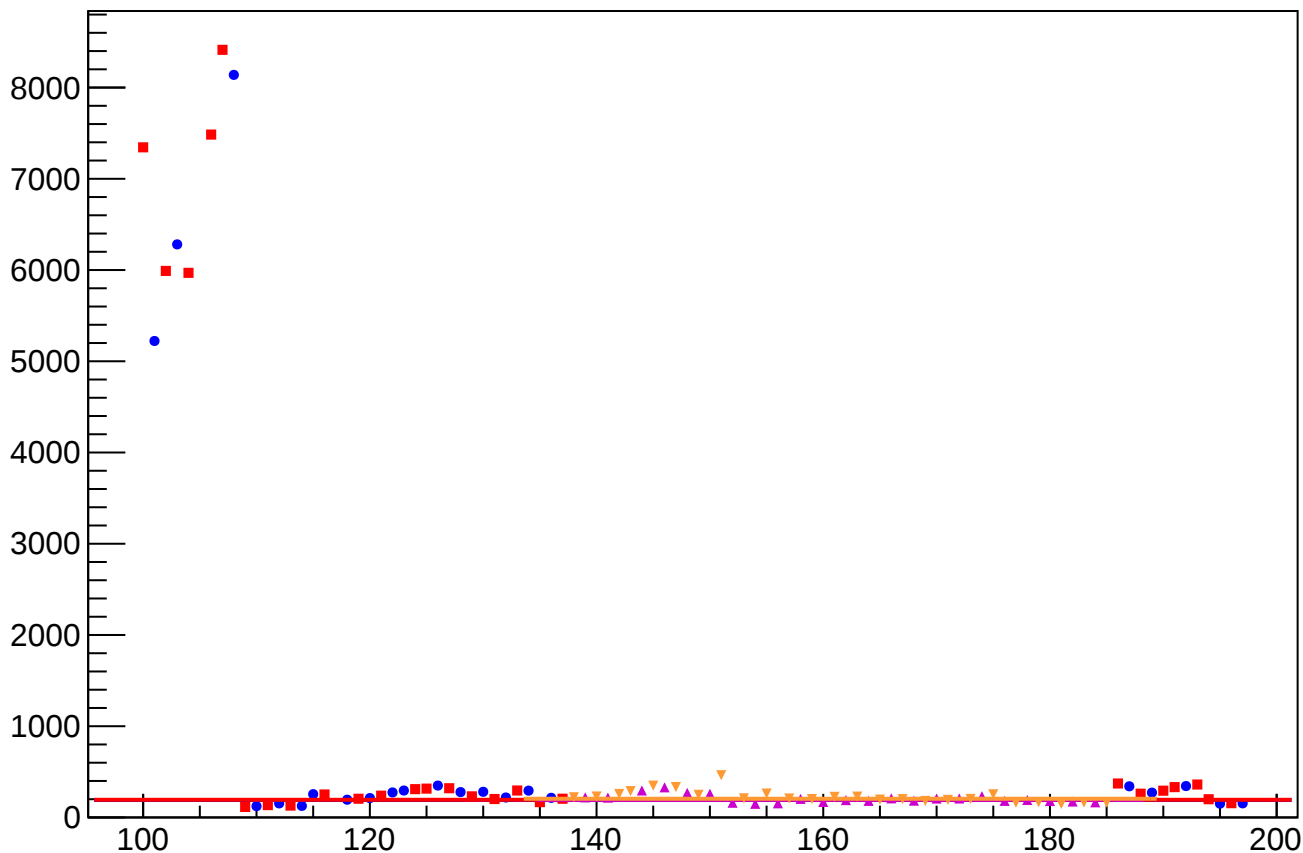
Right: -0.537 ± 48.922 $\chi^2/\text{NDF}: 32.4/47$

In: 19.676 ± 39.702 $\chi^2/\text{NDF}: 25.3/44$

Out: -26.337 ± 40.041 $\chi^2/\text{NDF}: 26.1/50$

All: -3.134 ± 28.192 $\chi^2/\text{NDF}: 52.1/95$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 191.074+/-0.050 χ^2/NDF : 4401330.6/21

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

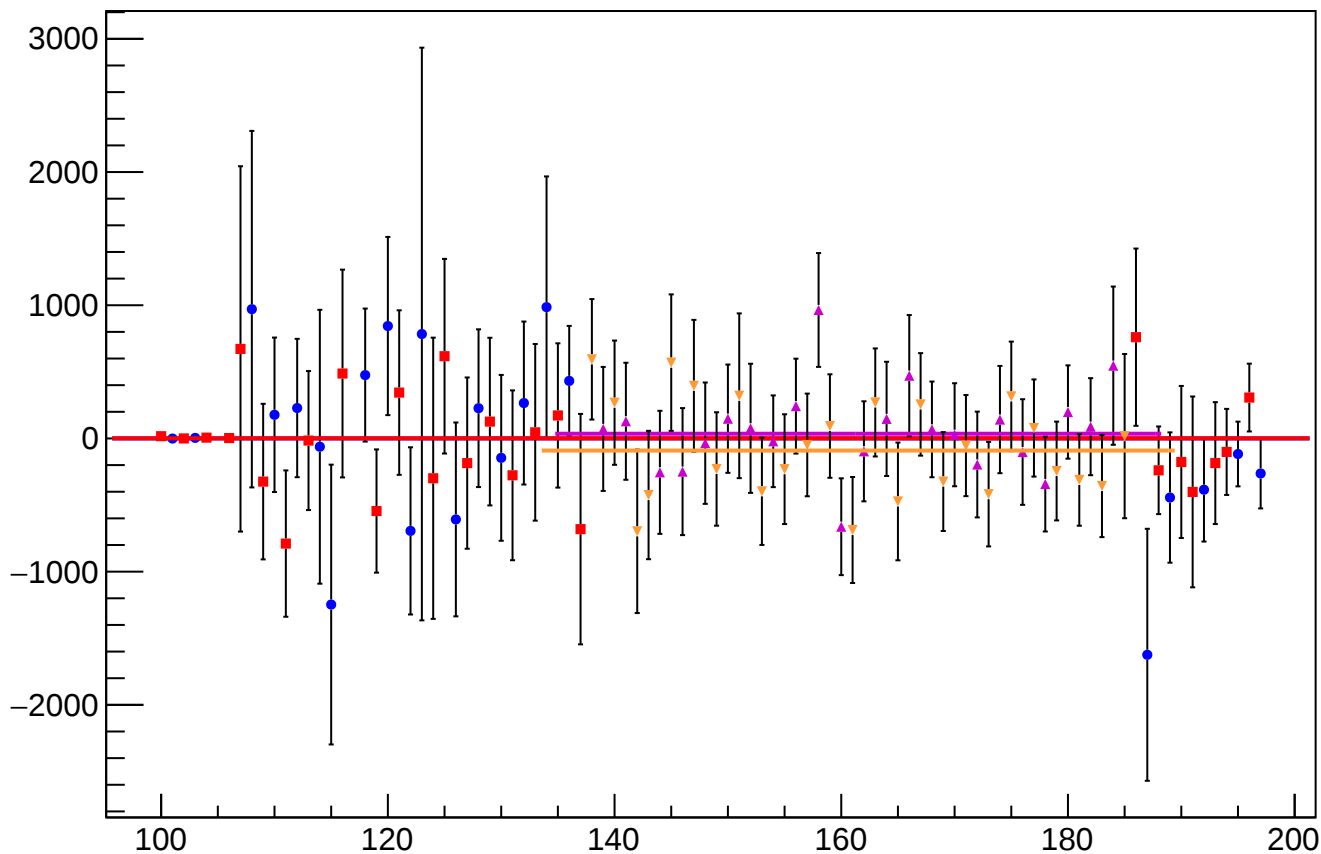
Right: 192.357+/-0.035 χ^2/NDF : 9628696.9/47

In: 192.811+/-0.028 χ^2/NDF :5582576.6/44

Out: 201.092+/-0.028 χ^2/NDF :7221430.9/50

All: 196.916+/-0.020 χ^2/NDF : 12847146.7/95

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.177 ± 1.736 χ^2/NDF : 16.1/21

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.325 ± 1.622 χ^2/NDF : 13.2/25

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

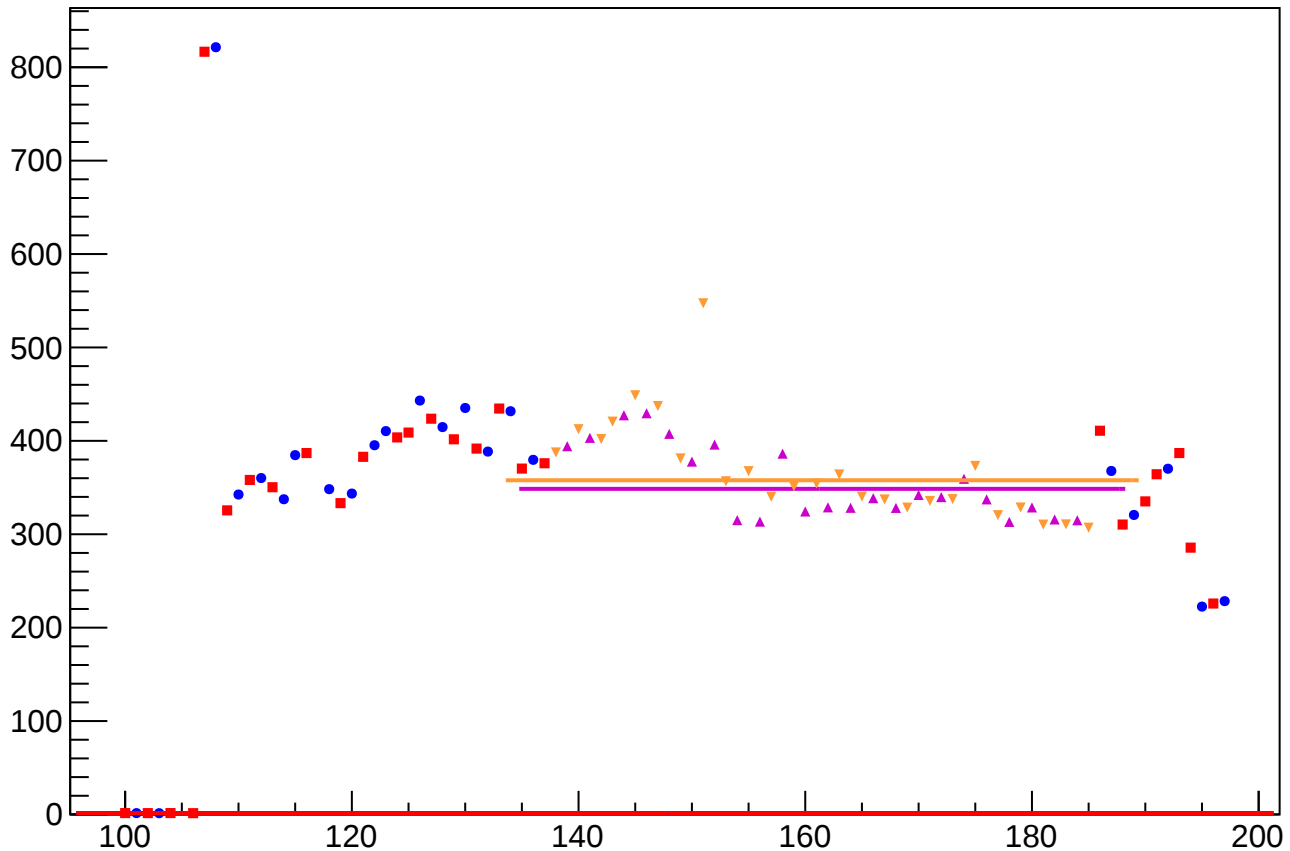
Right: 0.625 ± 1.186 χ^2/NDF : 29.7/47

In: -0.162 ± 1.736 χ^2/NDF : 29.7/44

Out: 1.291 ± 1.622 χ^2/NDF : 30.9/50

All: 0.614 ± 1.185 χ^2/NDF : 60.9/95

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.486 $\pm$ 0.001 χ^2 /NDF: 16870769.3/21

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.487 $\pm$ 0.001 χ^2 /NDF: 19069902.6/25

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

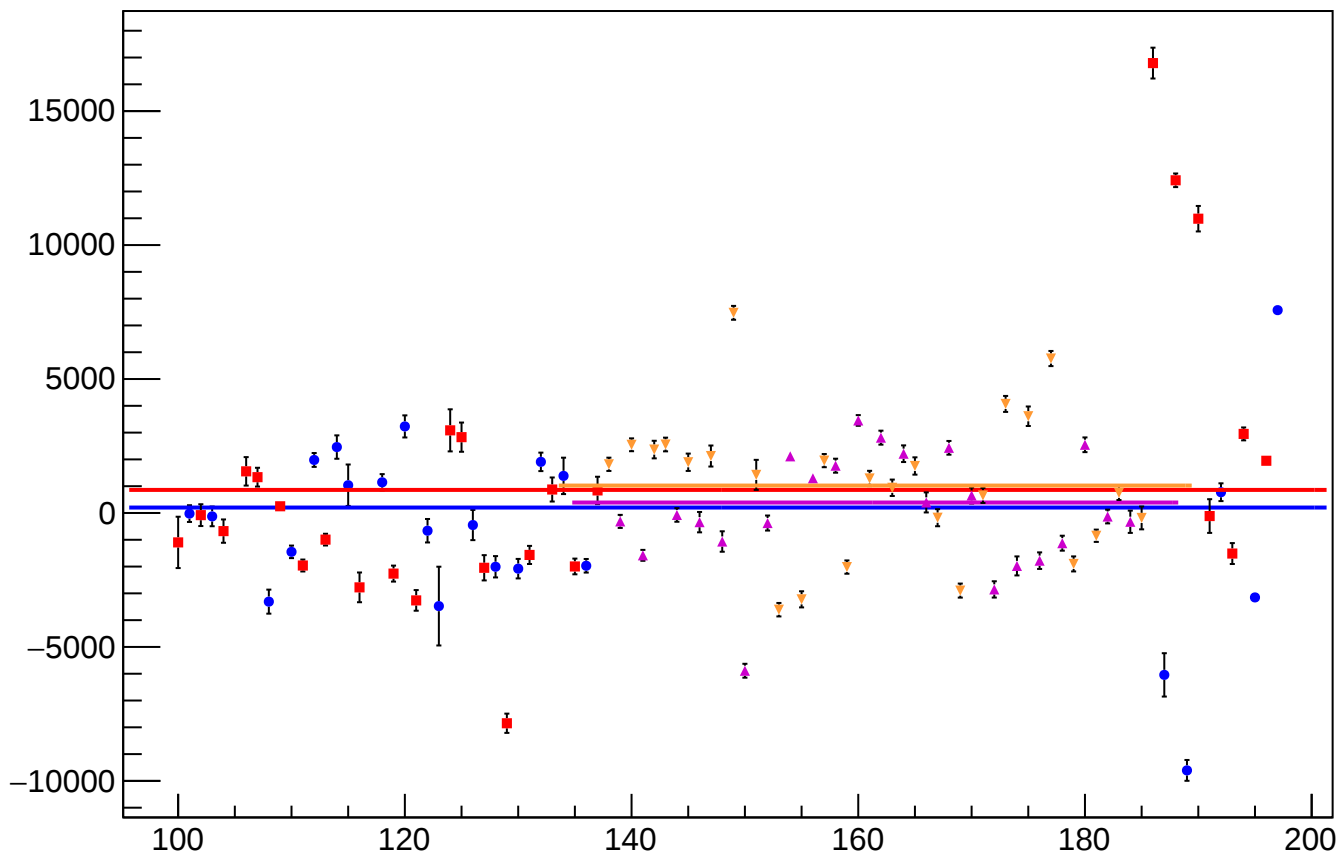
Right: 1.486 $\pm$ 0.001 χ^2 /NDF: 35940672.1/47

In: 1.633 $\pm$ 0.001 χ^2 /NDF: 51064304.1/44

Out: 1.619 $\pm$ 0.001 χ^2 /NDF: 55523381.4/50

All: 1.626 $\pm$ 0.001 χ^2 /NDF: 106587751.0/95

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 203.052 ± 69.594 χ^2/NDF : 3084.0/21

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

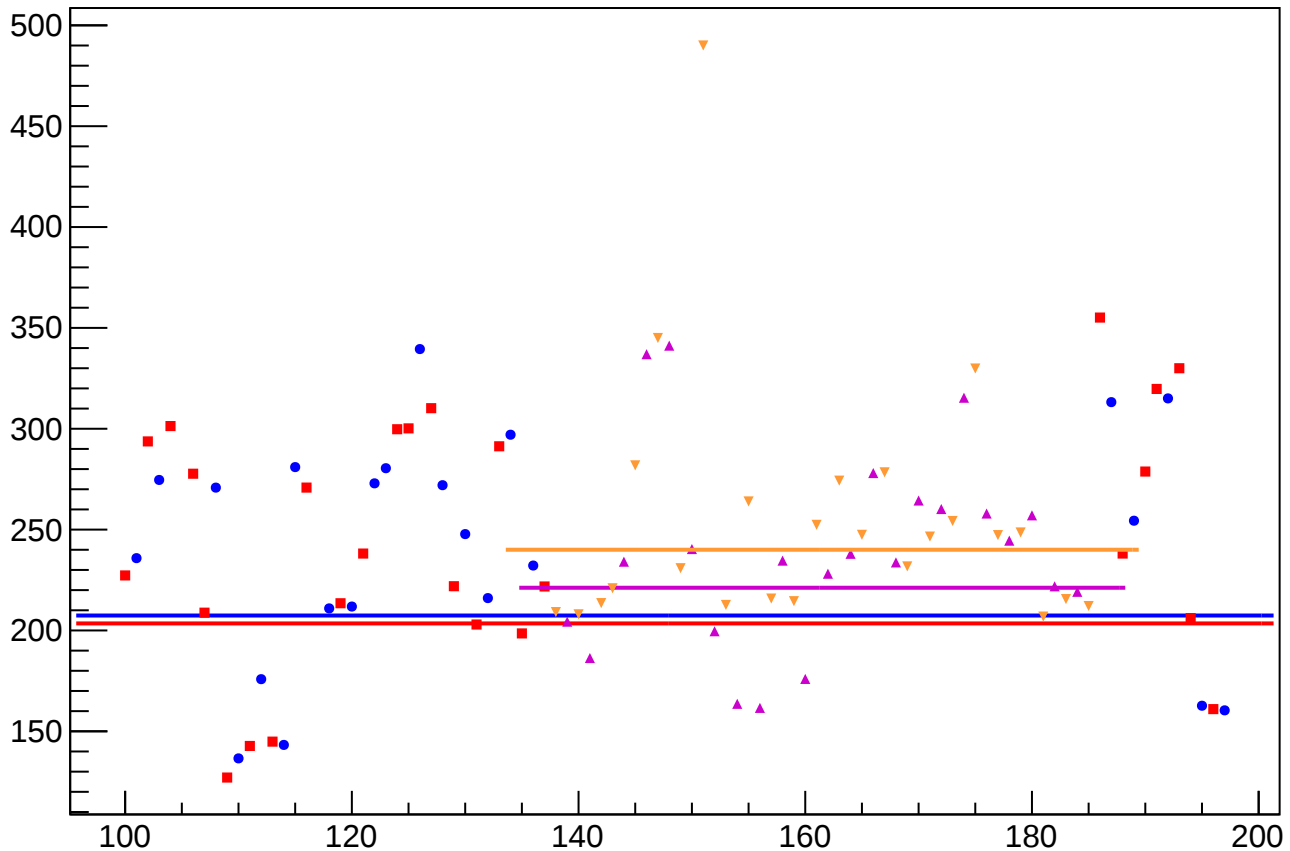
Right: 558.001 ± 47.226 χ^2/NDF : 7900.6/47

In: 318.384 ± 43.118 χ^2/NDF : 4673.4/44

Out: 951.465 ± 42.793 χ^2/NDF : 7081.3/50

All: 637.316 ± 30.374 χ^2/NDF : 11863.3/95

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 207.406 $\pm$ 0.049 χ^2/NDF : 1220860.8/21

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

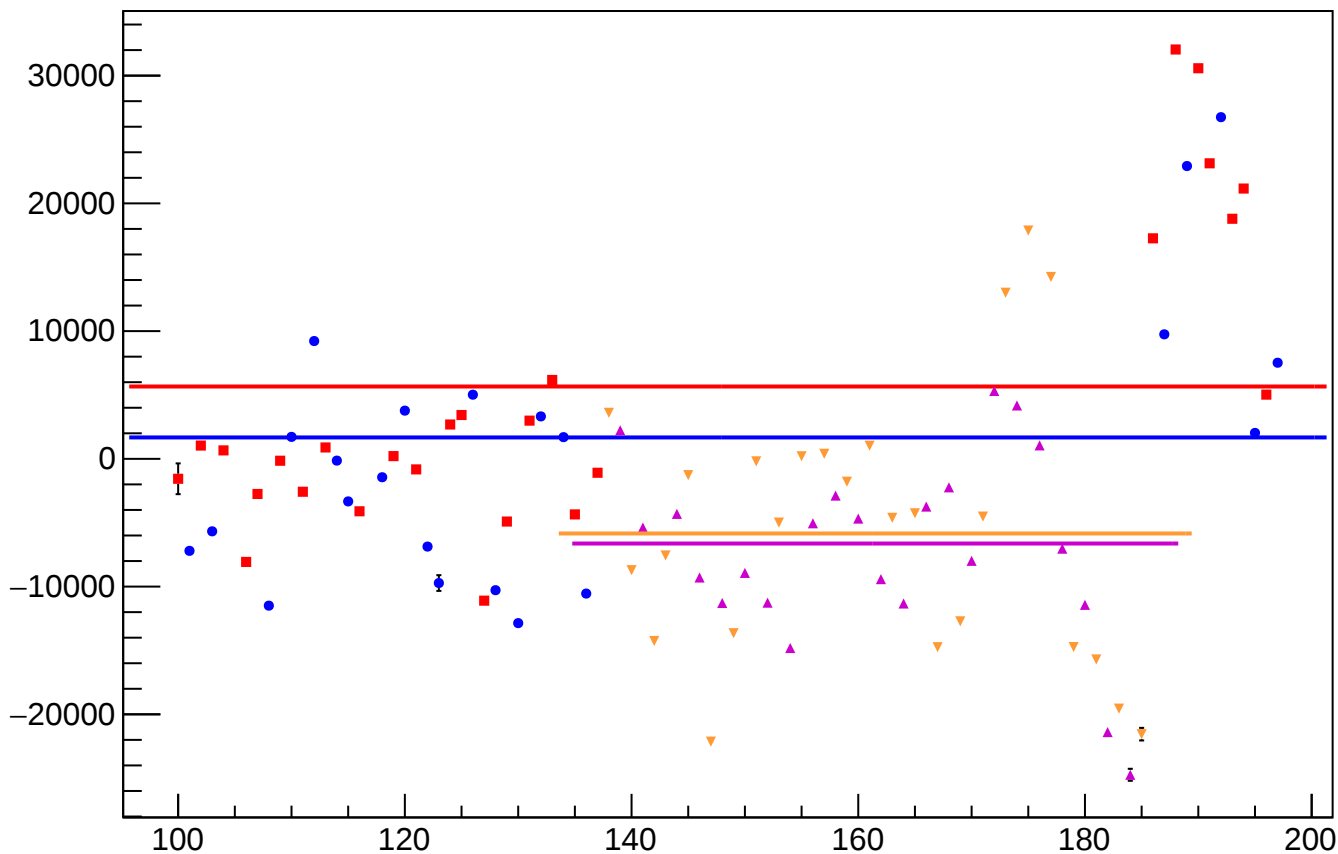
Right: 205.292 $\pm$ 0.033 χ^2/NDF : 3045327.0/47

In: 215.888 $\pm$ 0.030 χ^2/NDF :2611597.8/44

Out: 223.836 $\pm$ 0.030 χ^2/NDF :3183118.0/50

All: 219.892 $\pm$ 0.021 χ^2/NDF : 5828949.5/95

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1676.735+/-41.579 χ^2/NDF : 71256.2/21

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

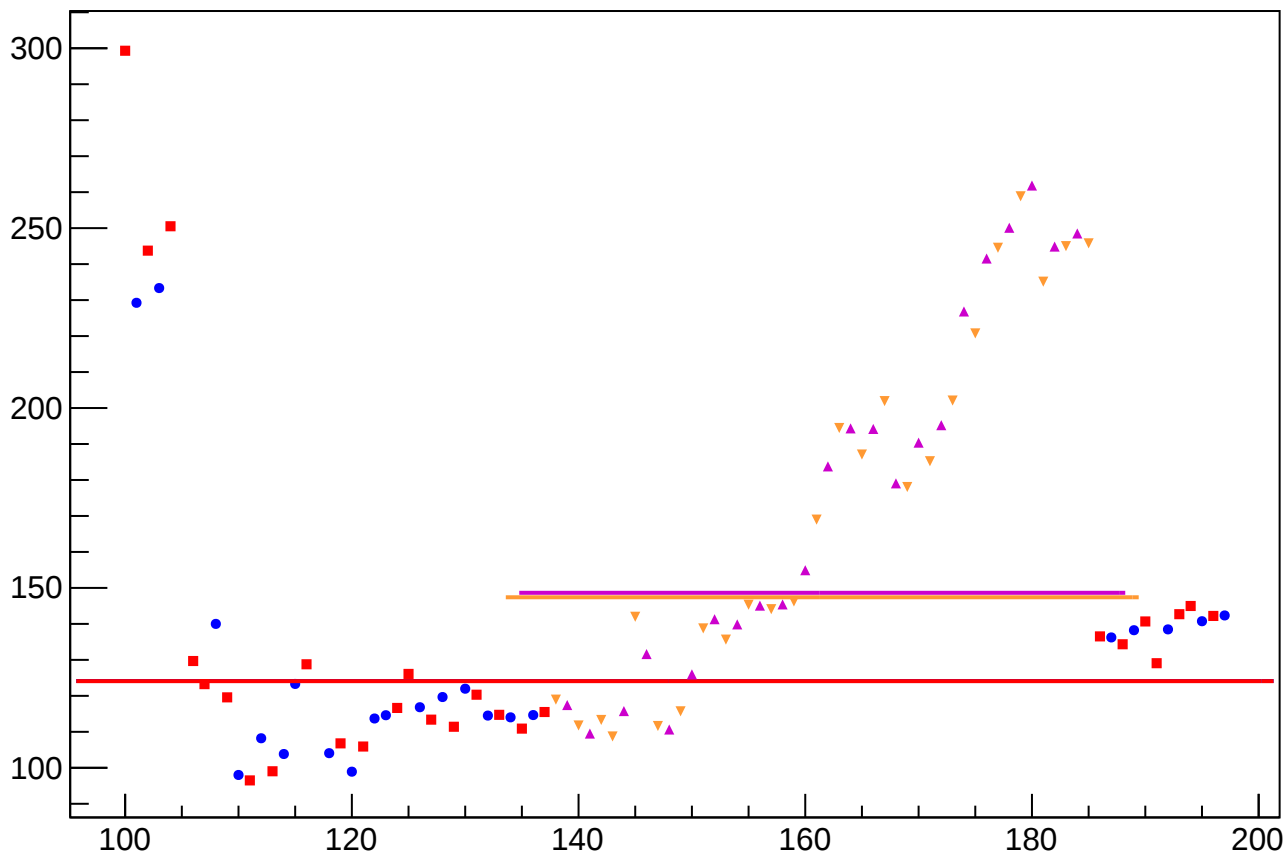
Right: 3833.539+/-28.169 χ^2/NDF : 176036.1/47

In: -2940.496+/-27.707 χ^2/NDF : 115174.6/44

Out: -468.867+/-26.171 χ^2/NDF : 211305.3/50

All: -1634.275+/-19.026 χ^2/NDF : 330685.3/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 124.126+/-0.029 χ^2/NDF : 744506.7/21

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

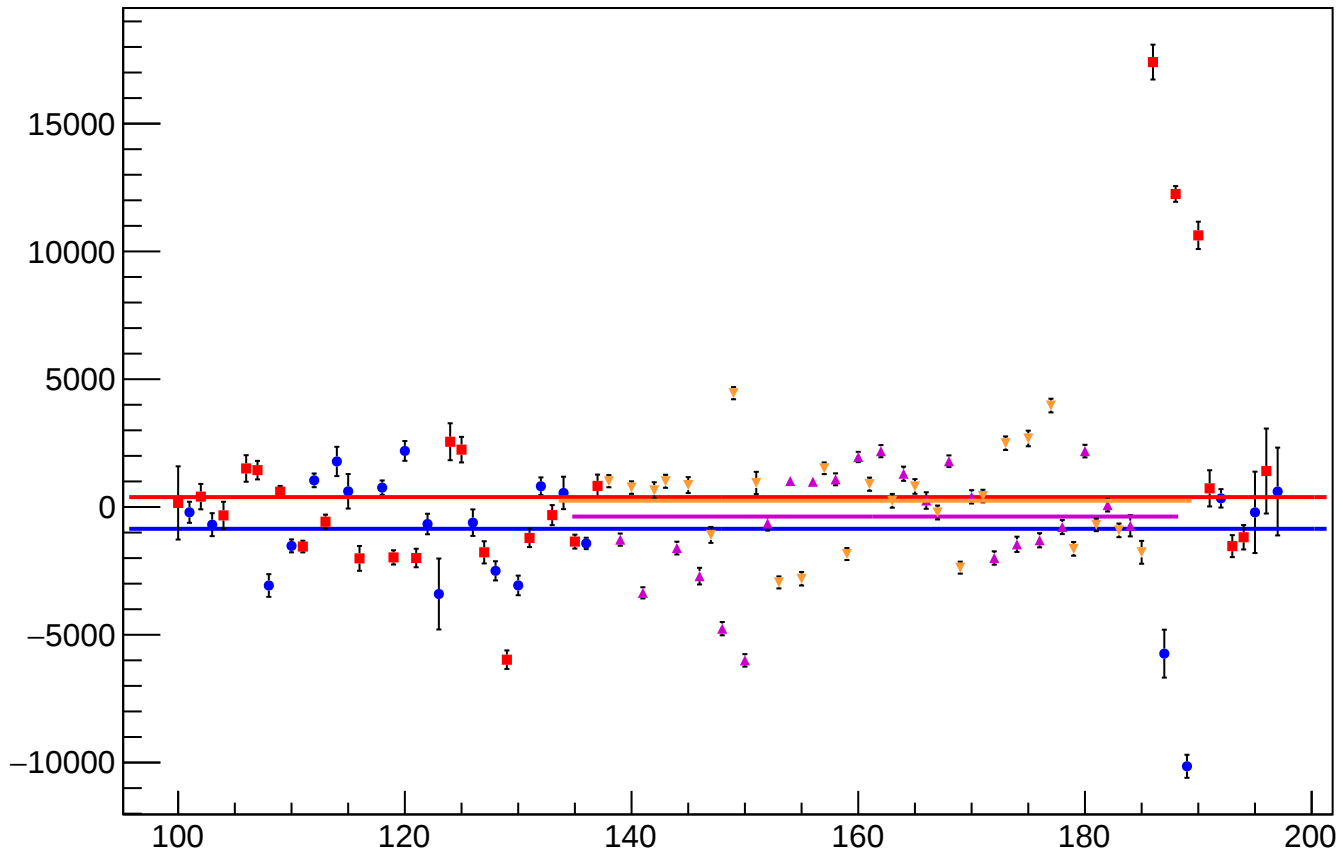
Right: 124.105+/-0.020 χ^2/NDF : 1593954.0/47

In: 137.756+/-0.020 χ^2/NDF : 3546597.9/44

Out: 136.511+/-0.019 χ^2/NDF : 3761398.1/50

All: 137.098+/-0.013 χ^2/NDF : 7310127.7/95

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -853.736+/-84.634 χ^2/NDF : 760.3/21

Left Out: 246.120+/-53.492 χ^2/NDF :1354.8/24

Right Out: 386.606+/-75.363 χ^2/NDF : 3160.5/25

Left In: -374.465+/-51.892 χ^2/NDF :1798.3/22

Left: -73.589+/-37.246 χ^2/NDF : 3222.4/47

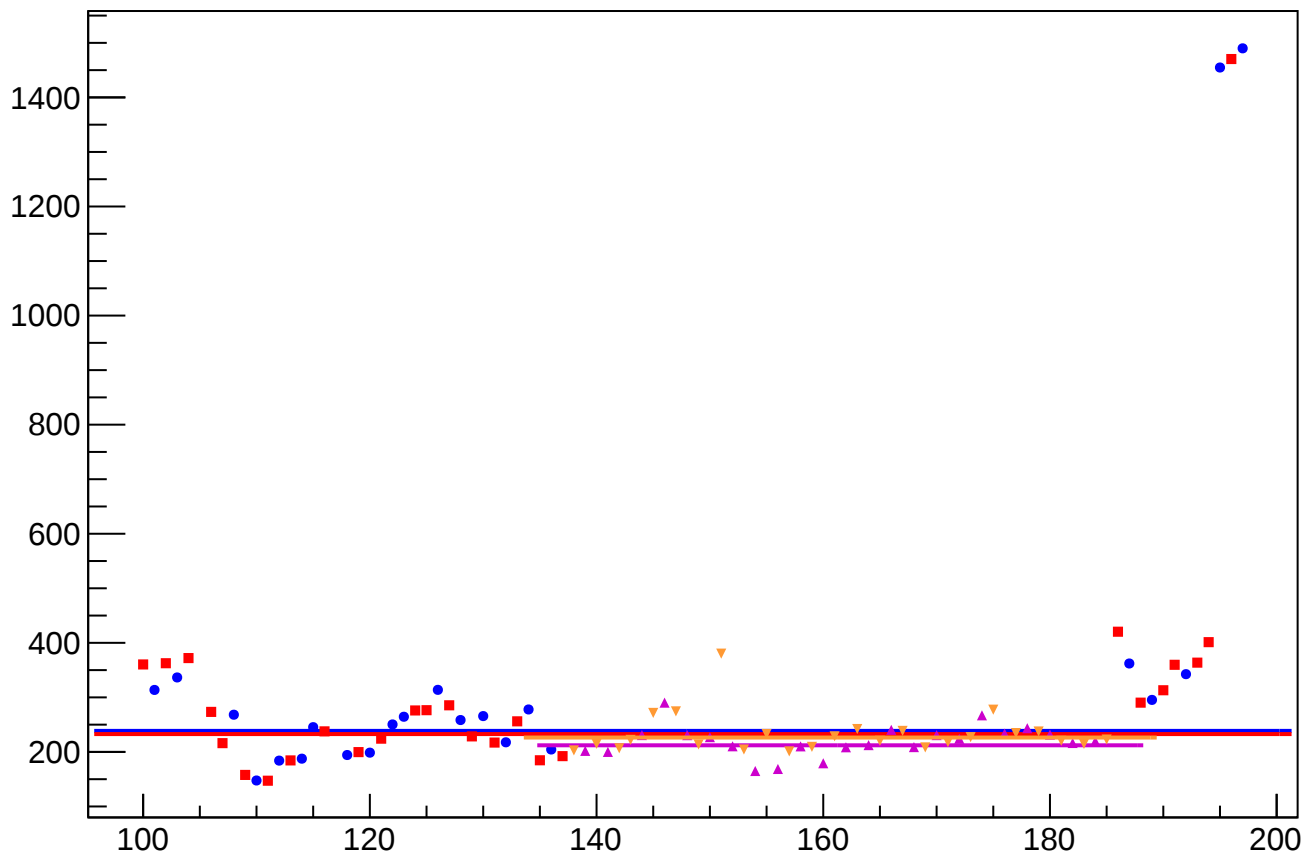
Right: -161.930+/-56.283 χ^2/NDF : 4040.5/47

In: -505.412+/-44.239 χ^2/NDF :2581.8/44

Out: 293.185+/-43.621 χ^2/NDF :4517.6/50

All: -100.494+/-31.061 χ^2/NDF : 7264.7/95

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 238.566 $\pm$ 0.060 χ^2 /NDF: 3179718.3/21

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

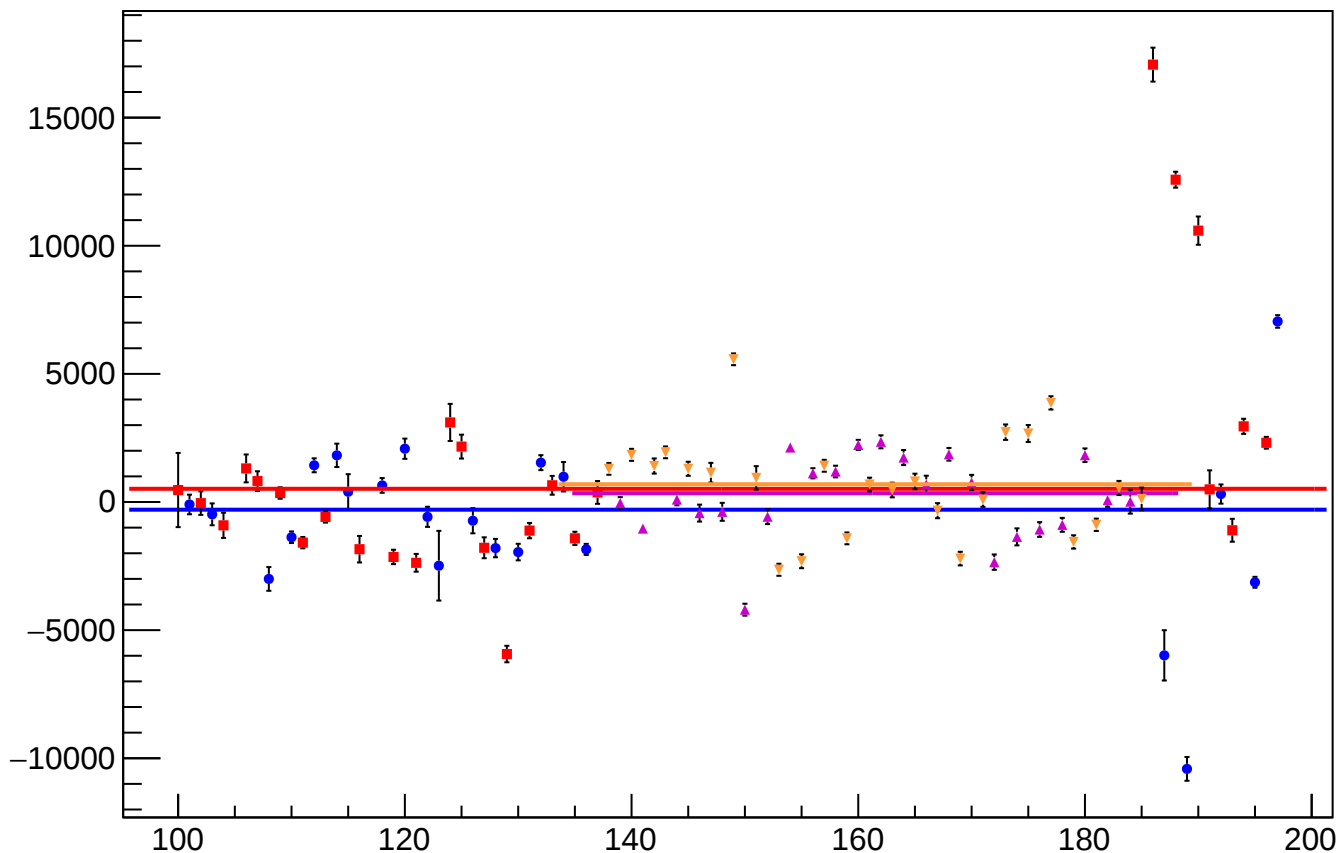
Right: 235.300 $\pm$ 0.040 χ^2 /NDF: 6097937.1/47

In: 219.364 $\pm$ 0.031 χ^2 /NDF: 3913076.4/44

Out: 228.498 $\pm$ 0.031 χ^2 /NDF: 3444045.8/50

All: 223.995 $\pm$ 0.022 χ^2 /NDF: 7400352.6/95

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -299.855+/-72.233 χ^2/NDF : 1897.9/21

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

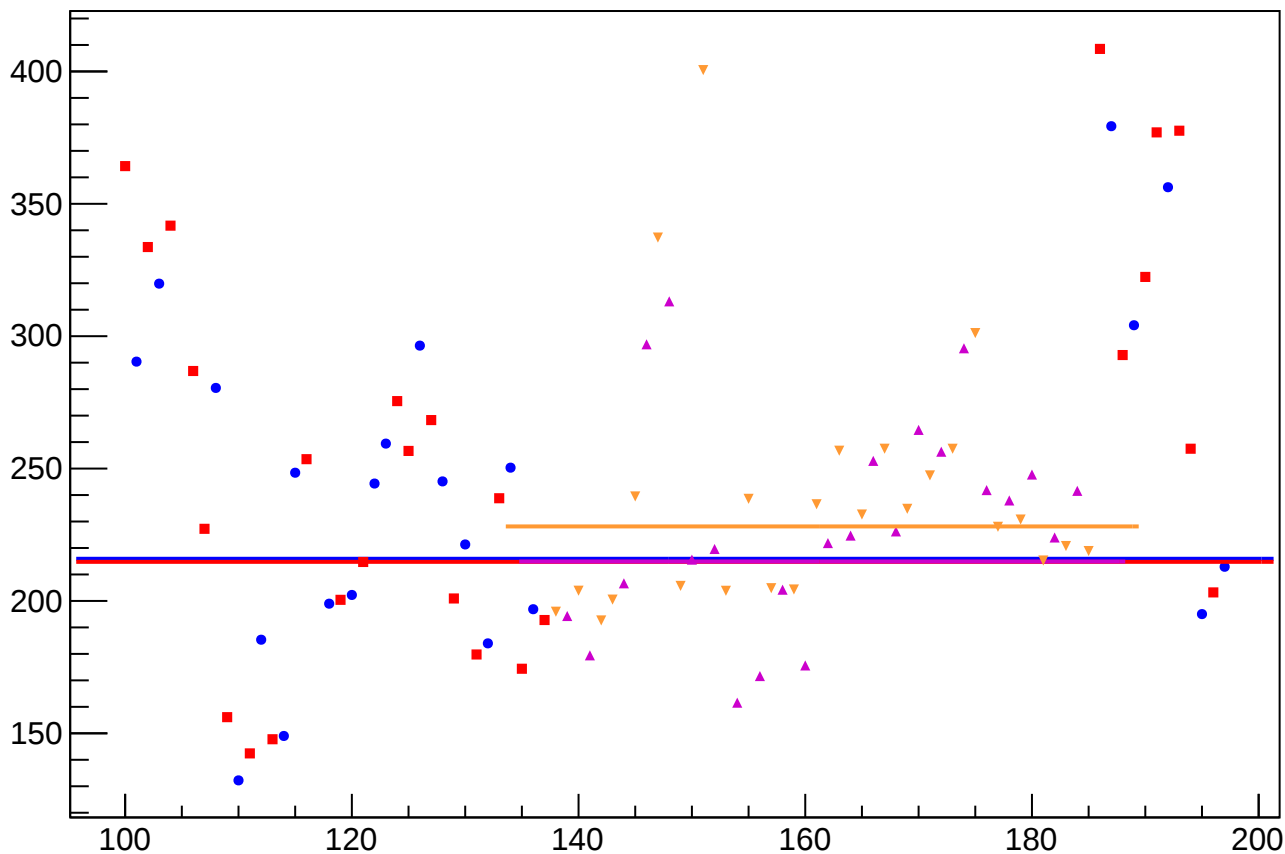
Right: 134.907+/-49.361 χ^2/NDF : 5415.0/47

In: 119.306+/-42.707 χ^2/NDF : 2934.7/44

Out: 624.404+/-42.311 χ^2/NDF : 4875.5/50

All: 374.210+/-30.057 χ^2/NDF : 7880.8/95

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 215.923 $\pm$ 0.051 χ^2 /NDF: 1142736.8/21

Left Out: 228.144 $\pm$ 0.038 χ^2 /NDF:828399.3/24

Right Out: 214.772 $\pm$ 0.048 χ^2 /NDF: 1813286.9/25

Left In: 214.878 $\pm$ 0.037 χ^2 /NDF:1037509.6/22

Left: 221.351 $\pm$ 0.027 χ^2 /NDF: 1927151.4/47

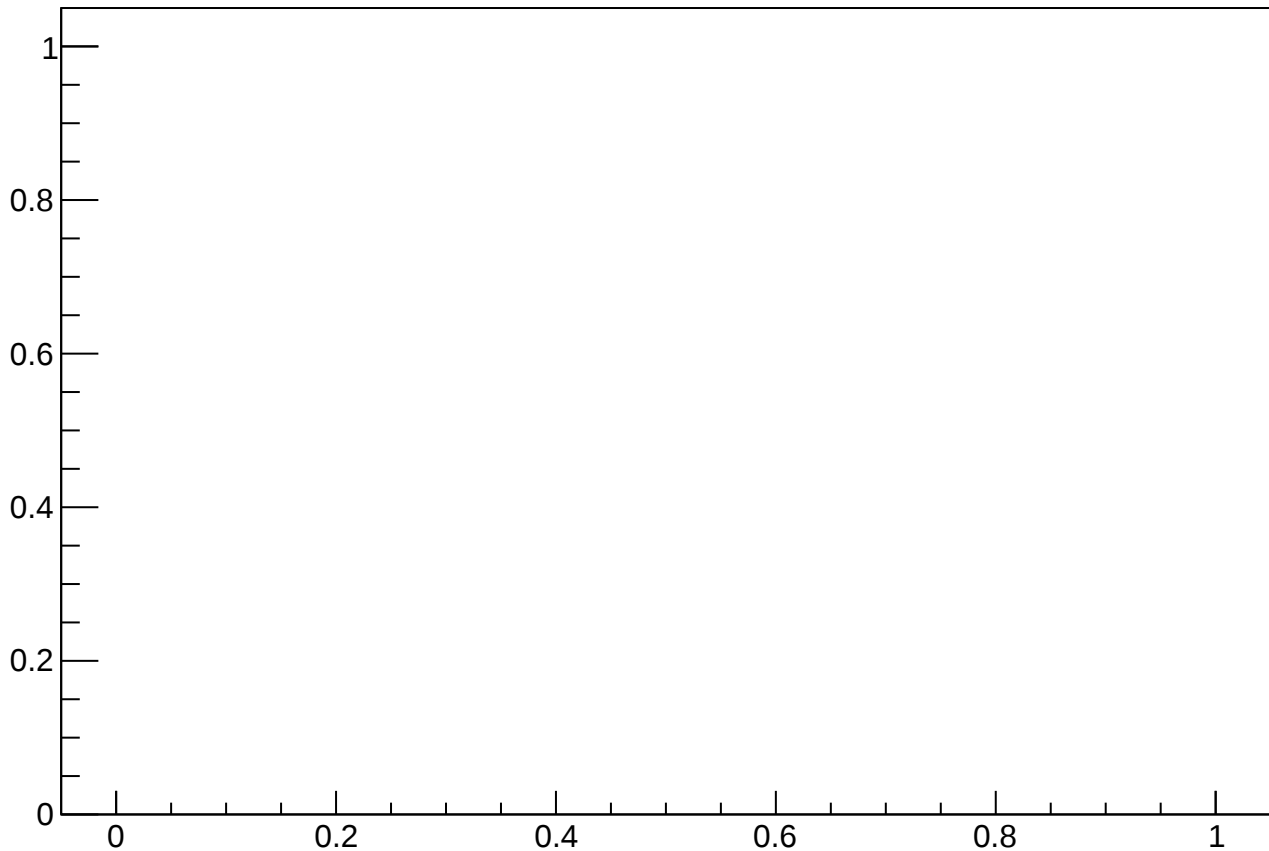
Right: 215.309 $\pm$ 0.035 χ^2 /NDF: 2956294.6/47

In: 215.243 $\pm$ 0.030 χ^2 /NDF:2180518.6/44

Out: 222.907 $\pm$ 0.030 χ^2 /NDF:2689282.8/50

All: 219.111 $\pm$ 0.021 χ^2 /NDF: 4902298.8/95

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

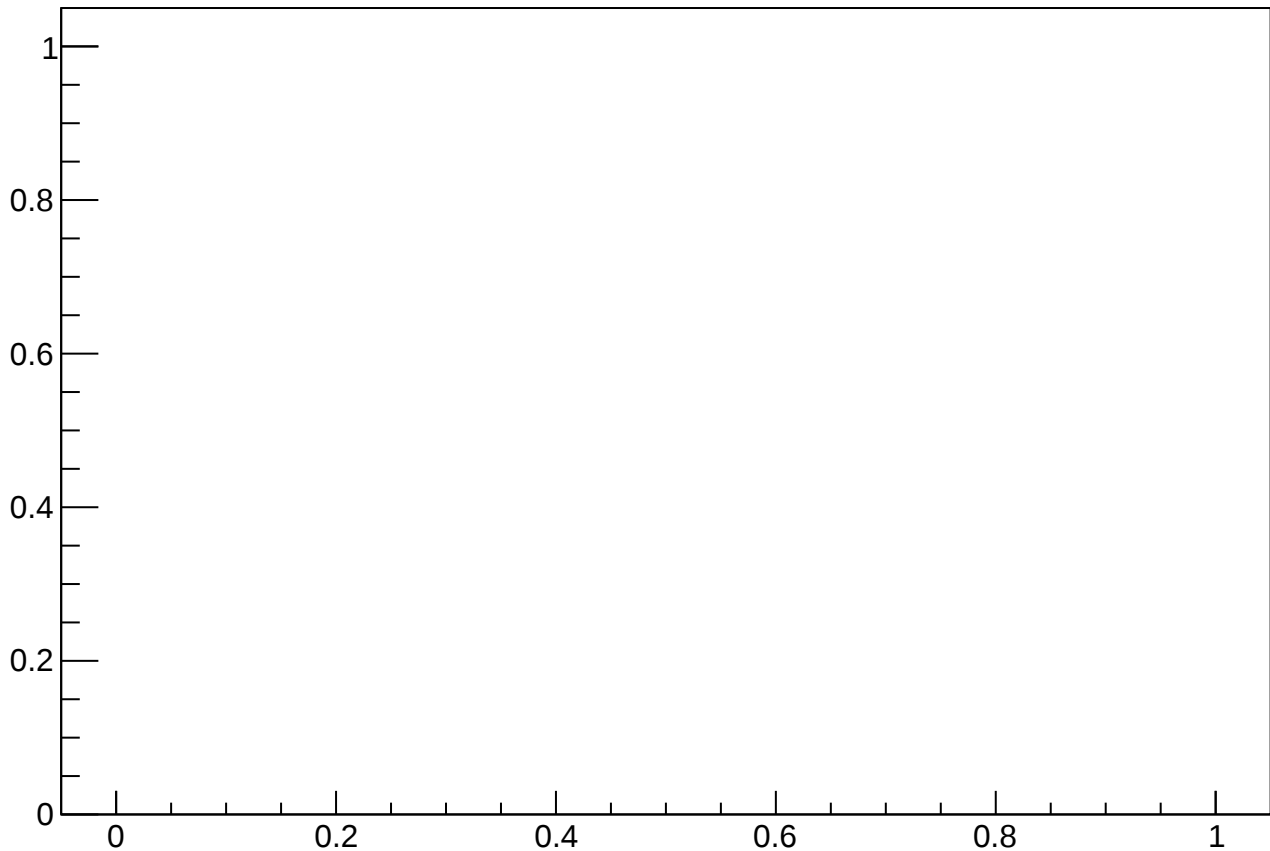
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

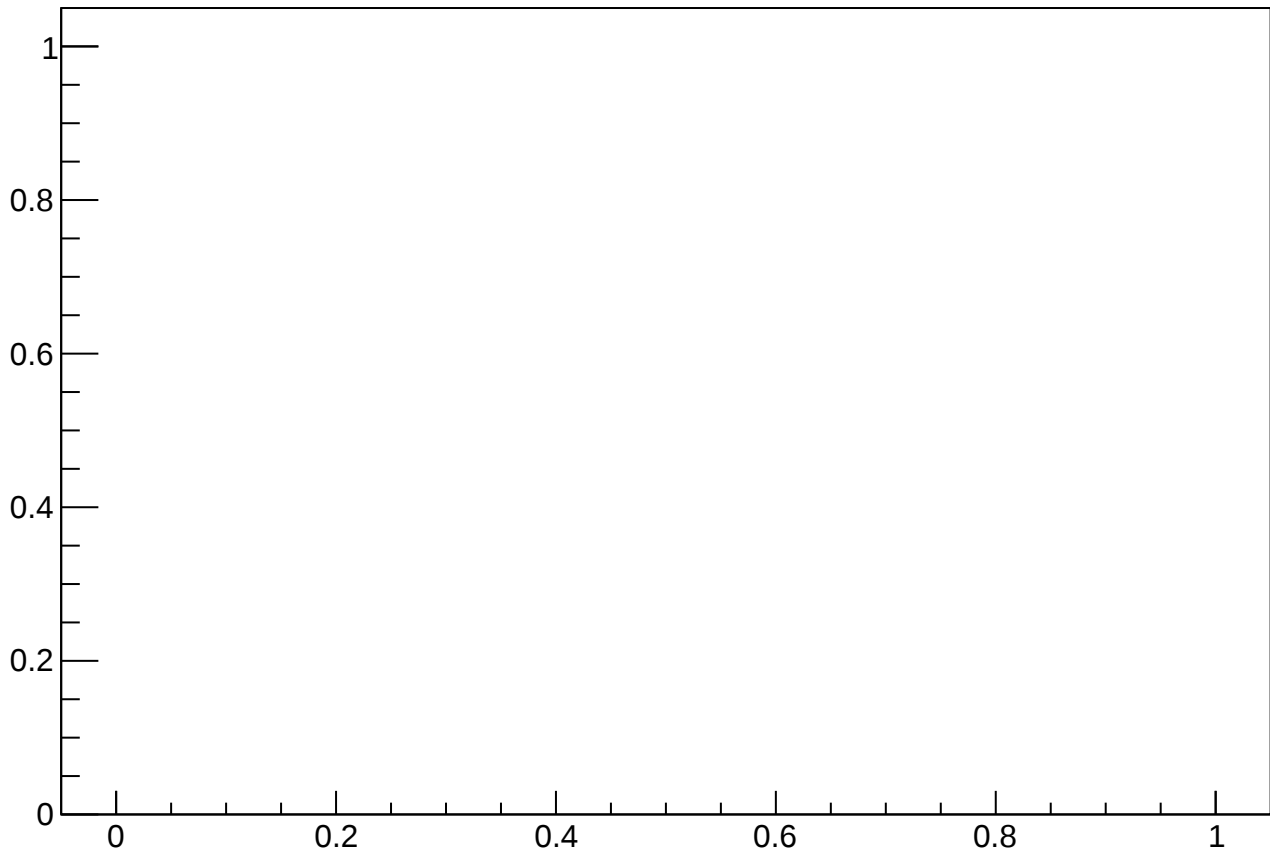
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

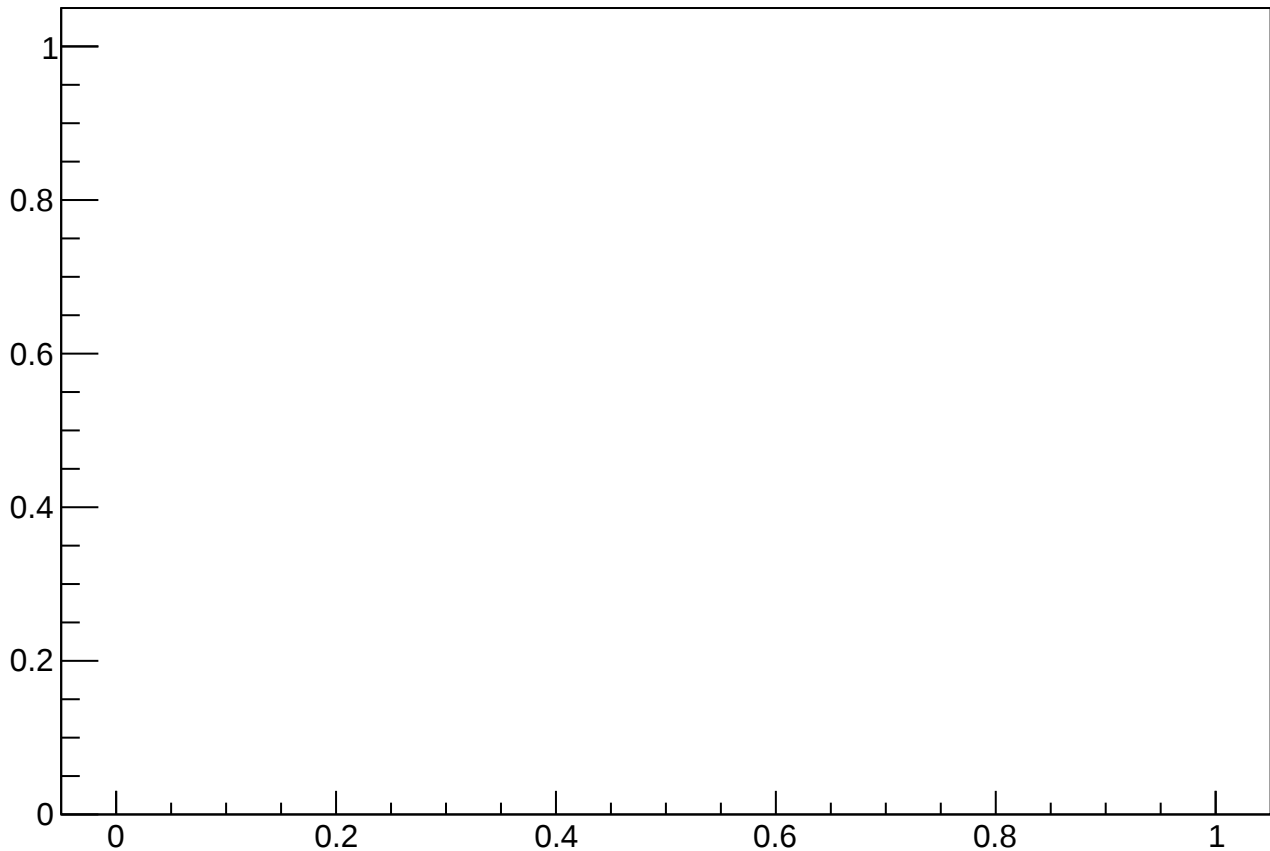
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

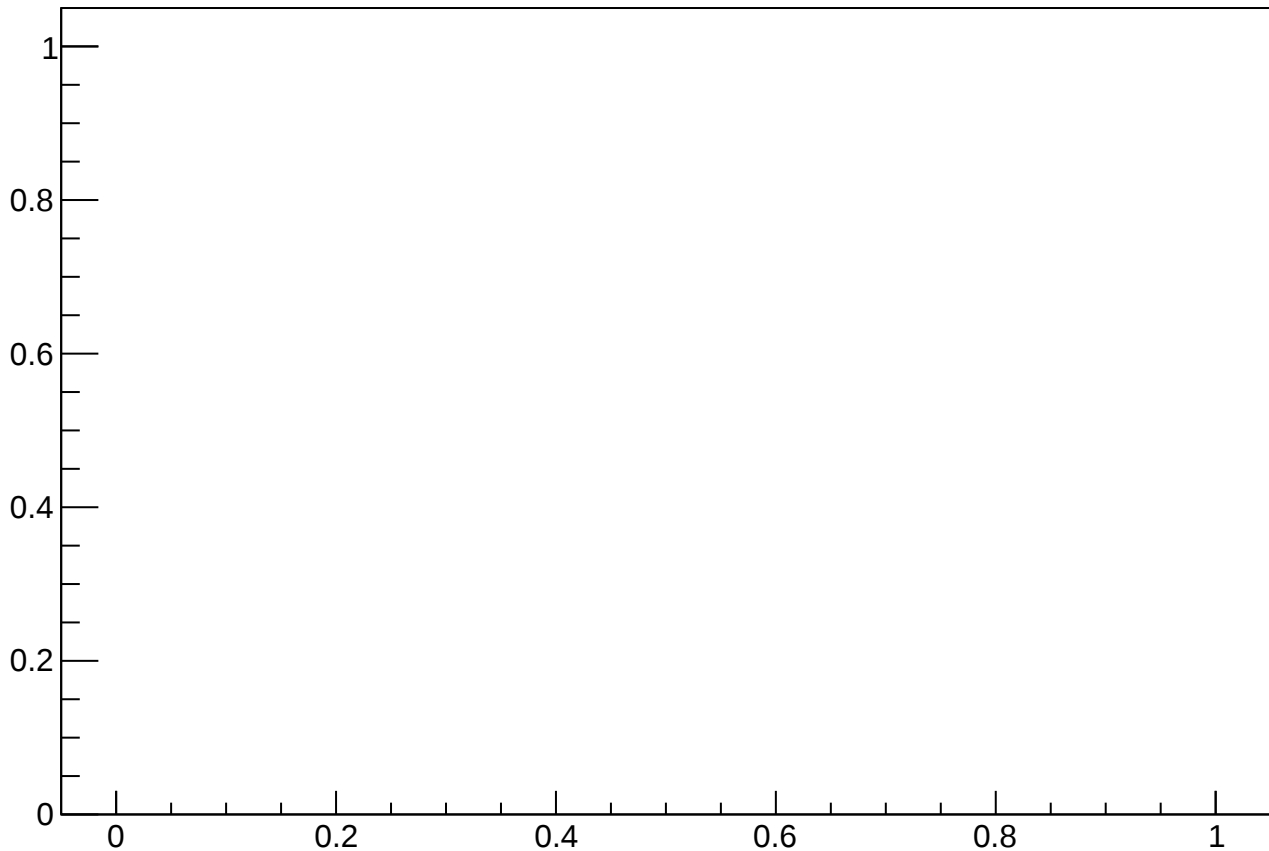
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

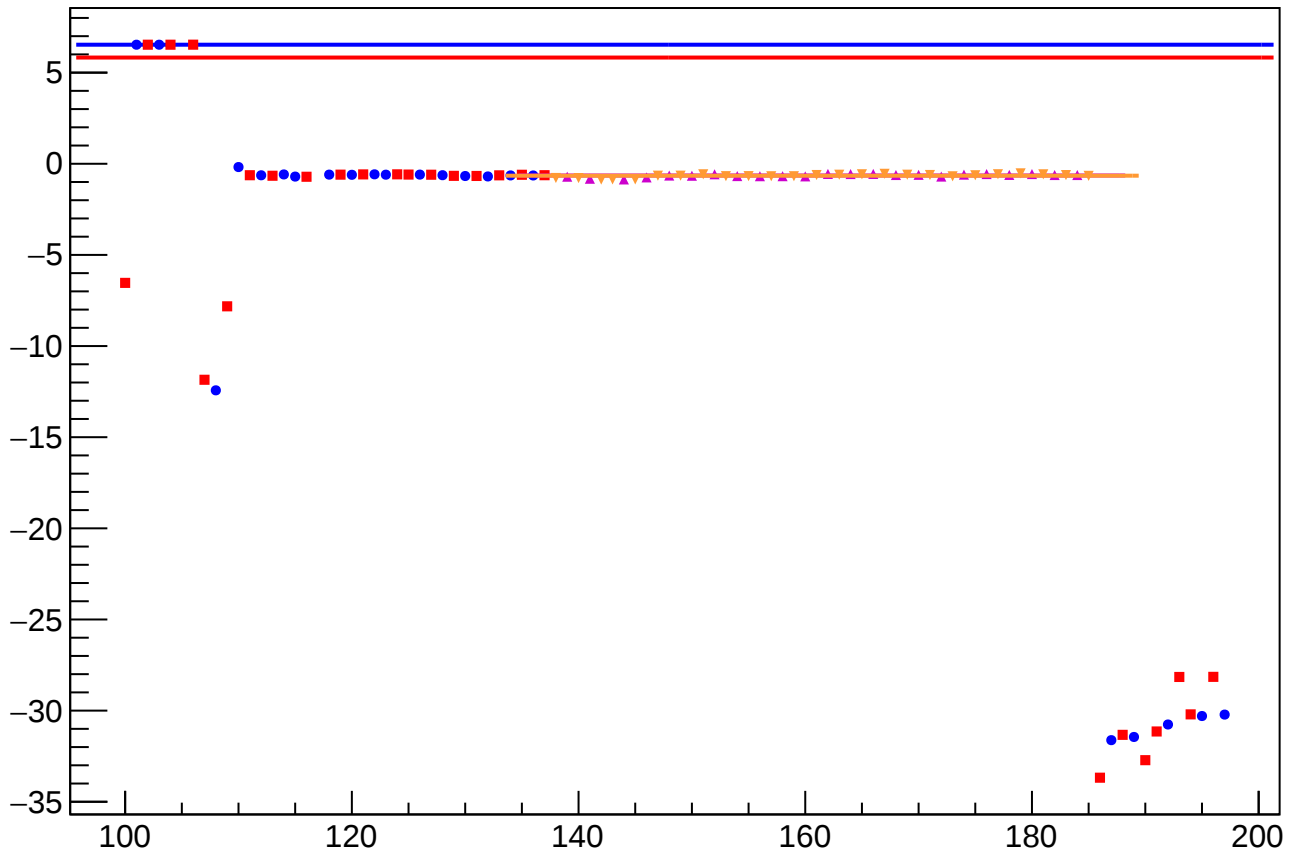
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127804653317.5/21

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

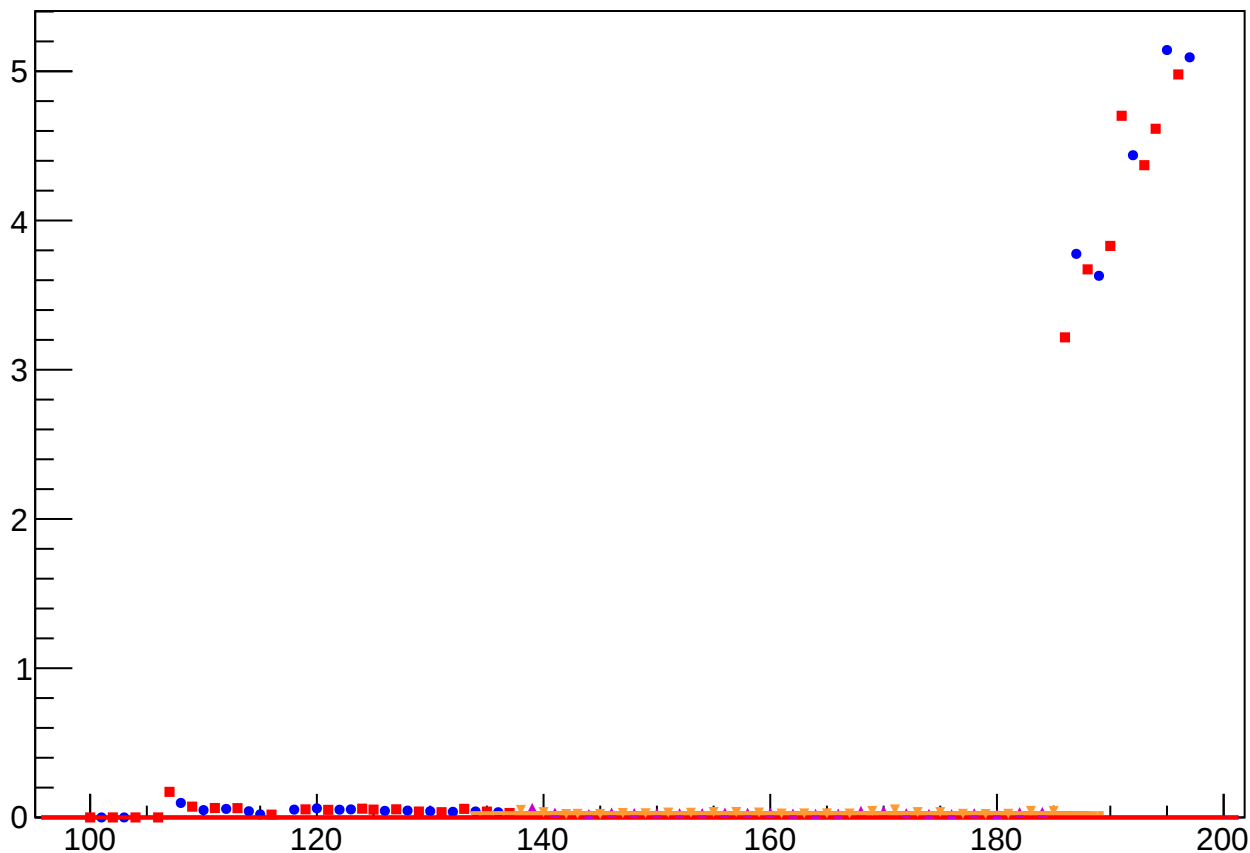
Right: 6.155+/-0.000 χ^2/NDF : 776093978997477.0/48

In: 6.530+/-0.000 χ^2/NDF : 961923247824.9/44

Out: 5.826+/-0.000 χ^2/NDF : 756673226777994.9/45

All: 6.153+/-0.000 χ^2/NDF : 77762741089197.0/49

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14849261.4/21

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

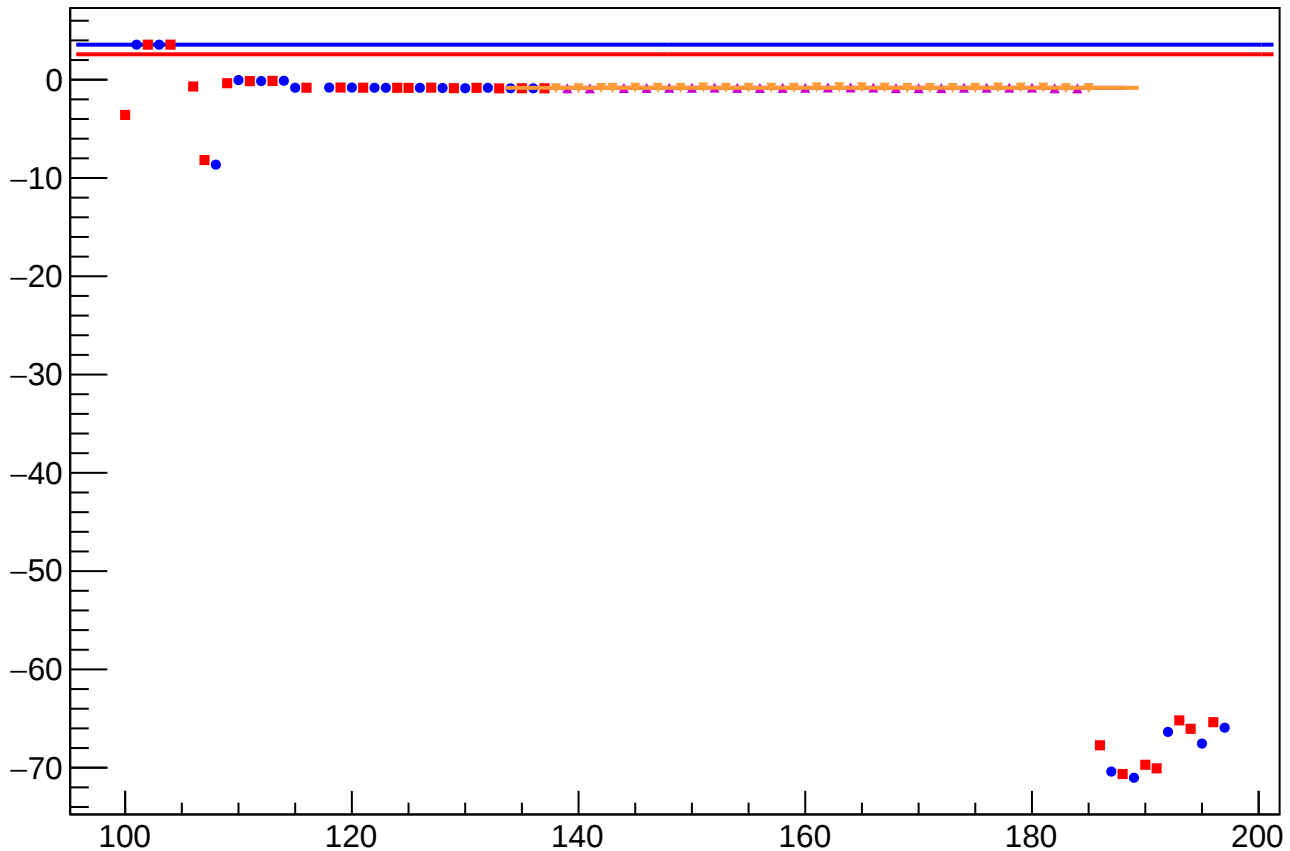
Right: 0.000+/-0.000 χ^2/NDF : 32353554.0/47

In: 0.000+/-0.000 χ^2/NDF :43027070.7/44

Out: 0.000+/-0.000 χ^2/NDF :47472088.6/50

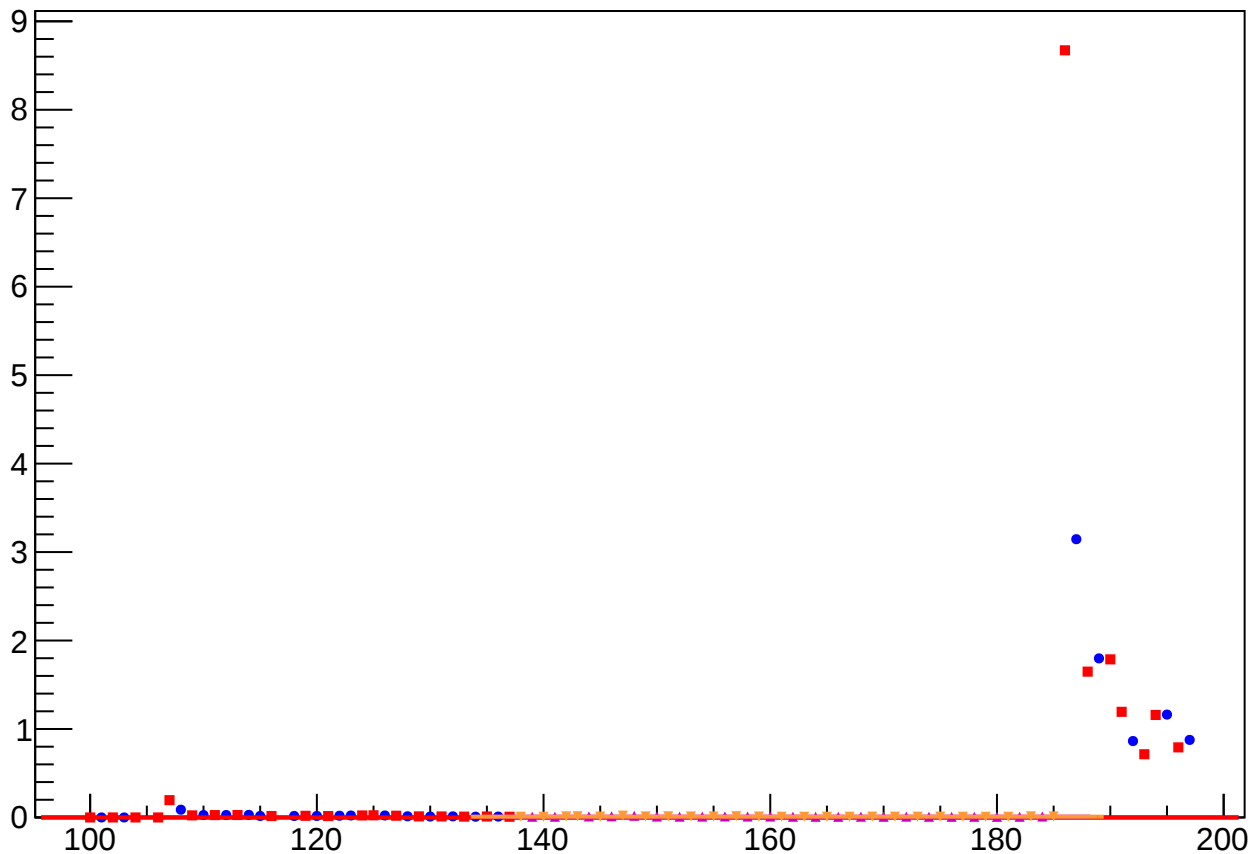
All: 0.000+/-0.000 χ^2/NDF : 90499584.7/95

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 491500868358.9/21	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382279499886610.9
Right Out: 2.583+/-0.000	χ^2/NDF : 1253516857880364.0/25	In: 3.560+/-0.000	χ^2/NDF : 4172062120041.4/44
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255747759060319.2
		All: 3.038+/-0.000	χ^2/NDF : 13880040615223.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14604806.5/21

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

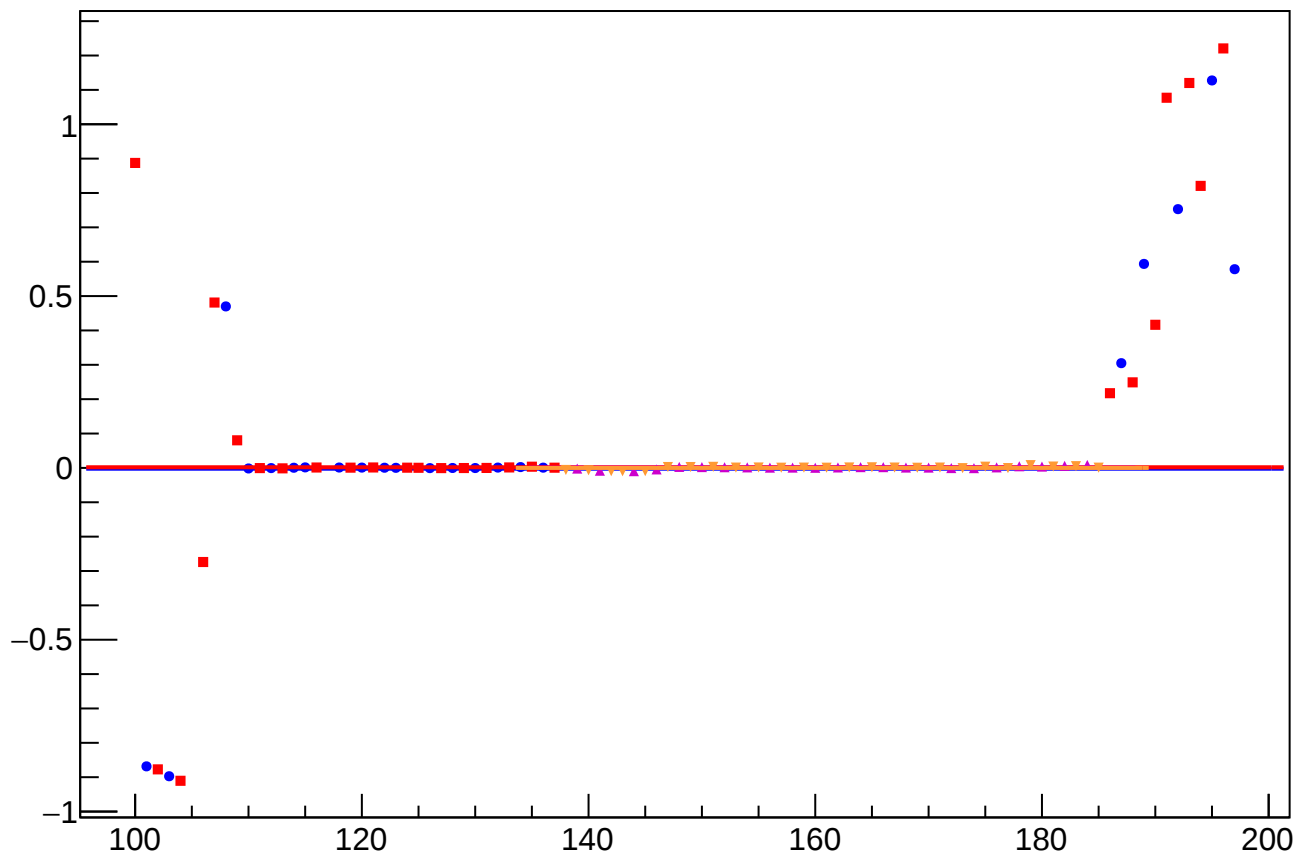
Right: 0.000+/-0.000 χ^2/NDF : 31595698.7/47

In: 0.000+/-0.000 χ^2/NDF :44401987.5/44

Out: 0.000+/-0.000 χ^2/NDF :48508788.3/50

All: 0.000+/-0.000 χ^2/NDF : 92911553.3/95

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9795517234.9/21

Left Out: -0.000+/-0.000 χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3042317036.4/25

Left In: 0.001+/-0.000 χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

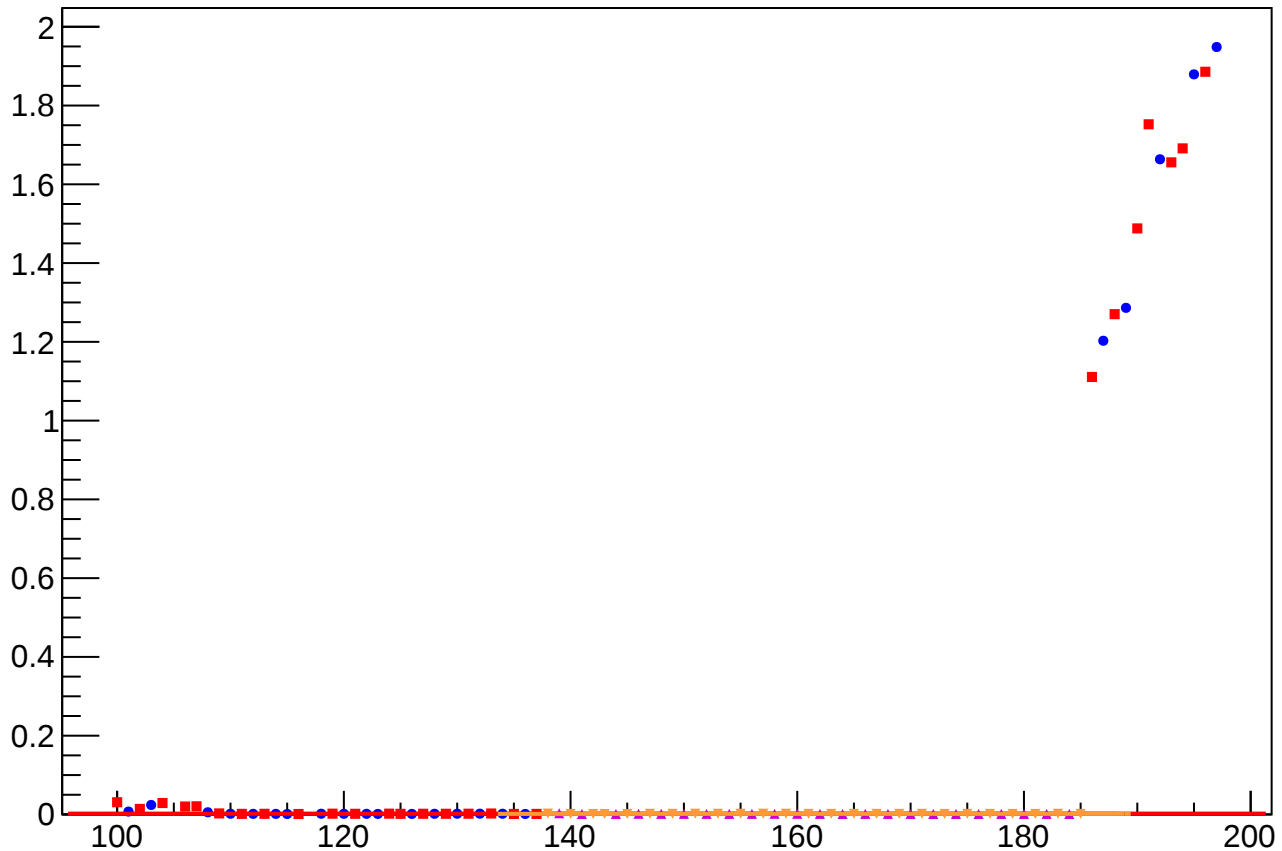
Right: -0.000+/-0.000 χ^2/NDF : 12851981276.9/47

In: -0.000+/-0.000 χ^2/NDF : 9908430008.5/44

Out: 0.000+/-0.000 χ^2/NDF : 3198550934.2/50

All: 0.000+/-0.000 χ^2/NDF : 13107352453.0/99

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7885385.7/21

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 11179322.2/25

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

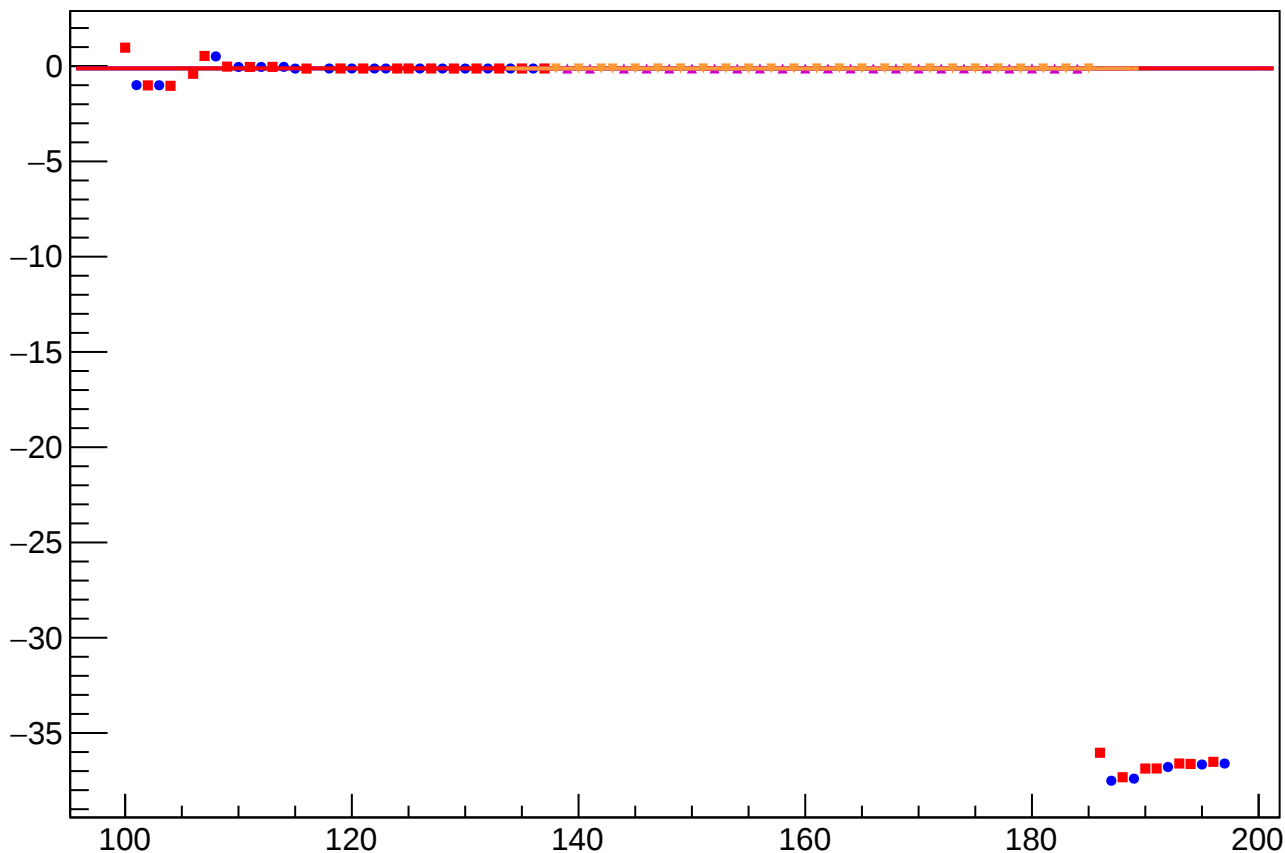
Right: 0.002+/-0.000 χ^2/NDF : 19072691.6/47

In: 0.002+/-0.000 χ^2/NDF :8596700.7/44

Out: 0.002+/-0.000 χ^2/NDF :11853306.9/50

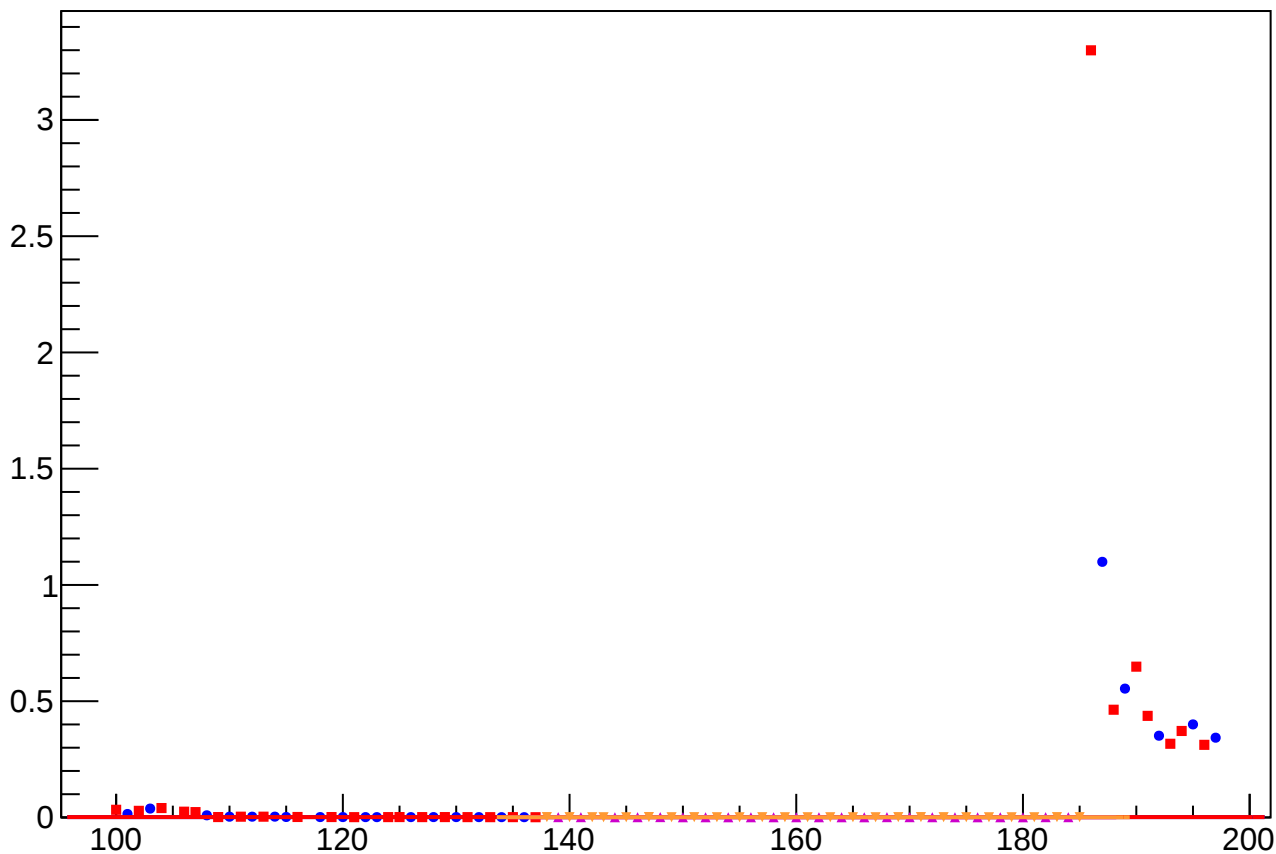
All: 0.002+/-0.000 χ^2/NDF : 20450631.0/95

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000	χ^2/NDF : 29207211365.9/21	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.118+/-0.000	χ^2/NDF : 66114251257.5/47
Right Out: -0.116+/-0.000	χ^2/NDF : 36885431058.2/25	In: -0.121+/-0.000	χ^2/NDF : 29260439161.9/44
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.121+/-0.000	χ^2/NDF : 36989844112.2/50
		All: -0.121+/-0.000	χ^2/NDF : 66251175719.9/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8522395.9/21

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

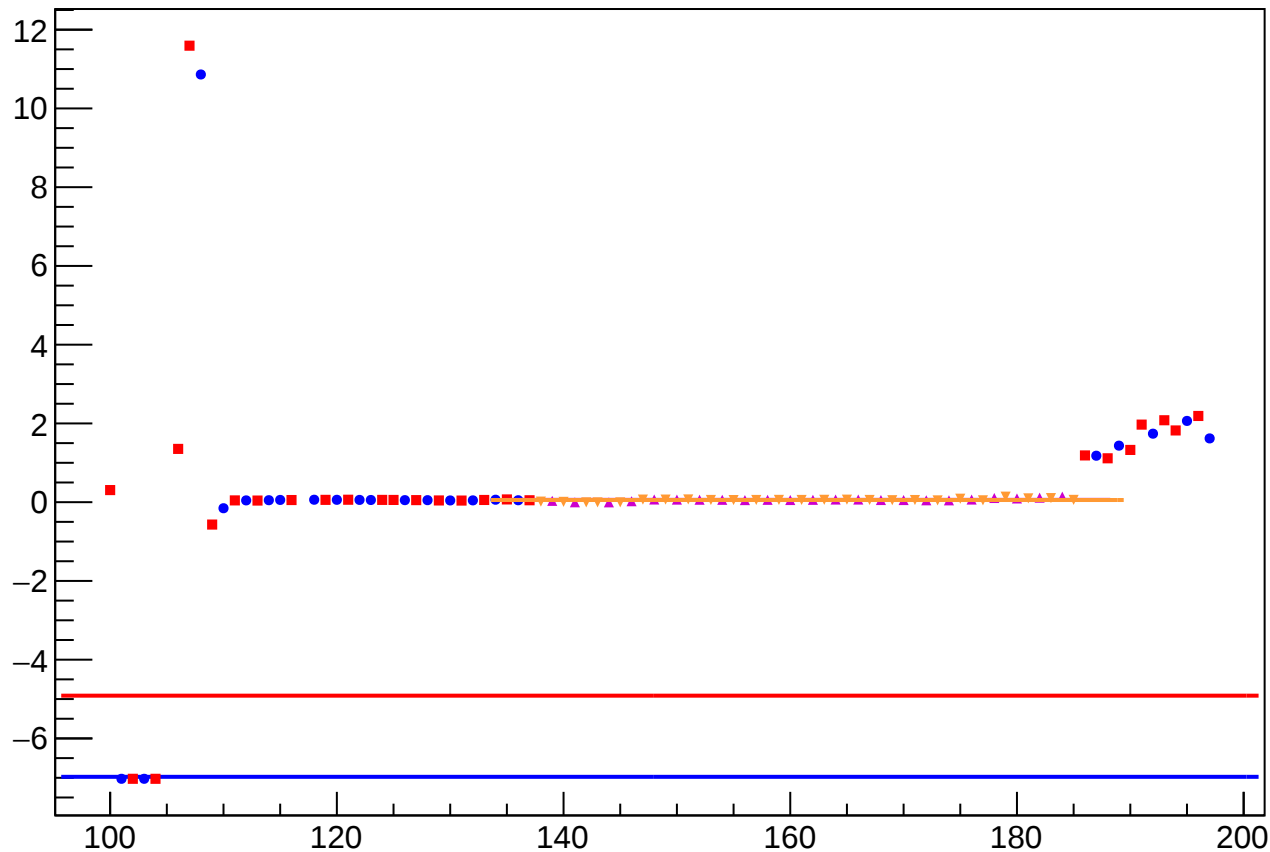
Right: 0.002+/-0.000 χ^2/NDF : 19858602.5/47

In: 0.001+/-0.000 χ^2/NDF :10627376.3/44

Out: 0.001+/-0.000 χ^2/NDF :13859979.3/50

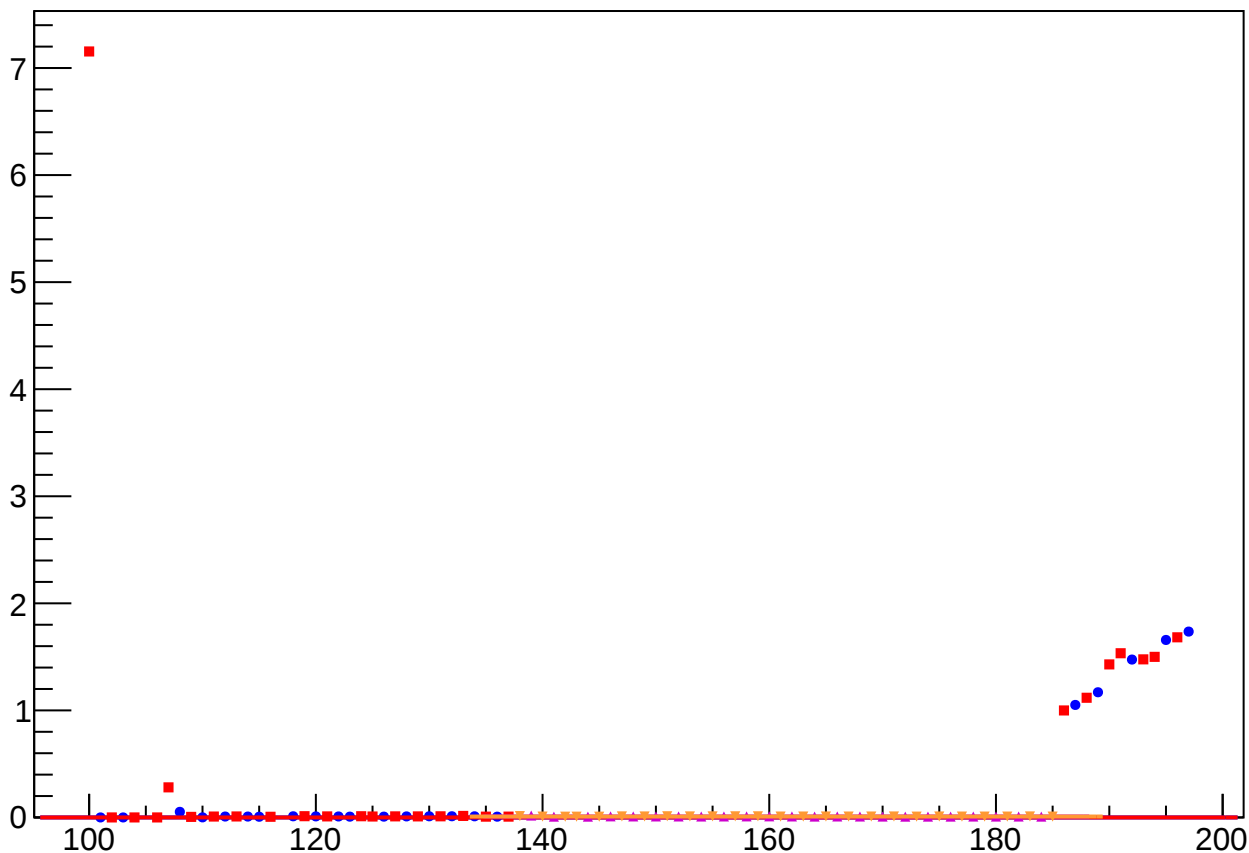
All: 0.001+/-0.000 χ^2/NDF : 24489456.8/95

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762551938146.4/21$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348629261044.4/25$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435813616447.6$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14204233.4/21

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

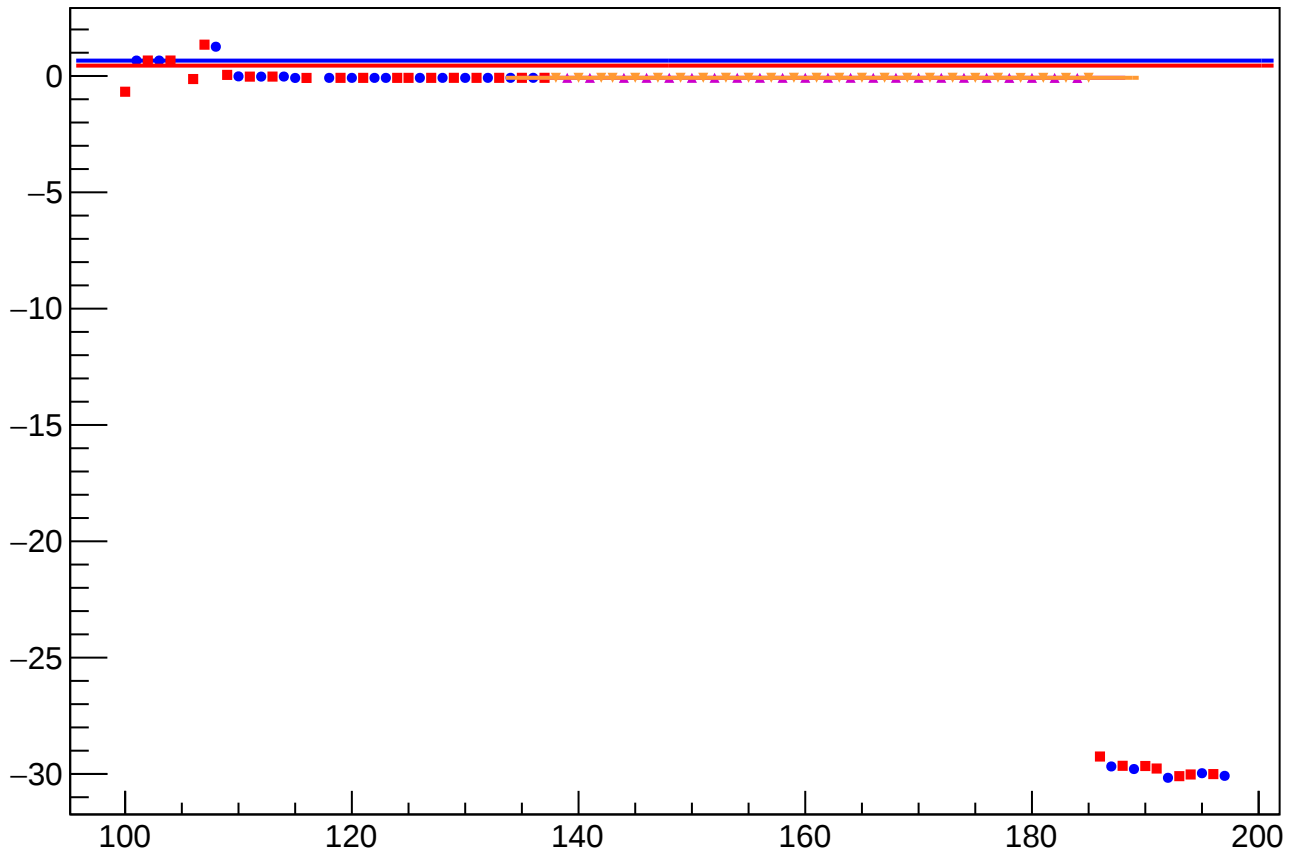
Right: 0.000+/-0.000 χ^2/NDF : 31133842.2/47

In: 0.000+/-0.000 χ^2/NDF : 41841375.6/44

Out: 0.000+/-0.000 χ^2/NDF : 45957694.6/50

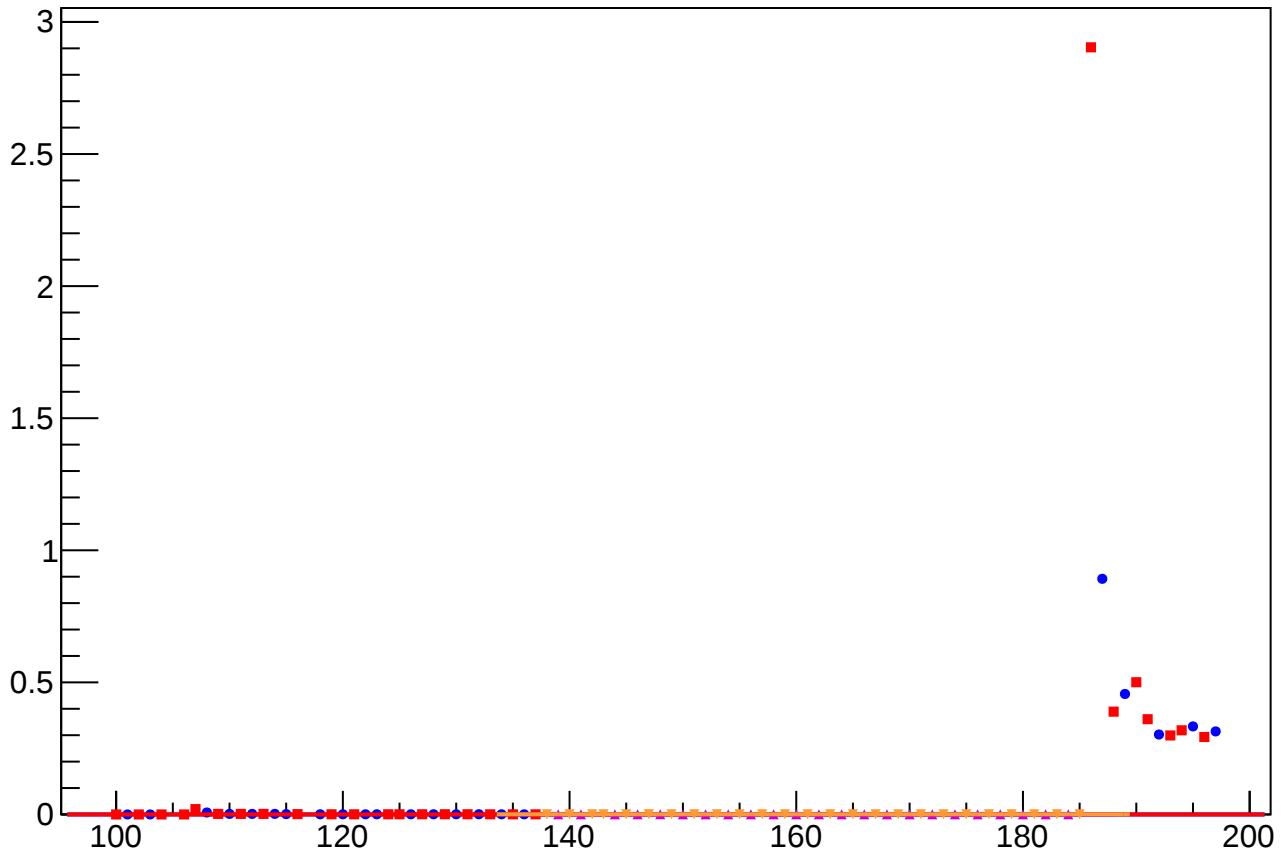
All: 0.000+/-0.000 χ^2/NDF : 87799555.6/95

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5609725464248.7/21	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 : 473986279292377.1
Right Out: 0.446+/-0.000	χ^2/NDF : 405447314917613.9/25	In: 0.647+/-0.000	χ^2/NDF : 33869693516321.7/44
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 : 5160362938863

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15684972.9/21

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

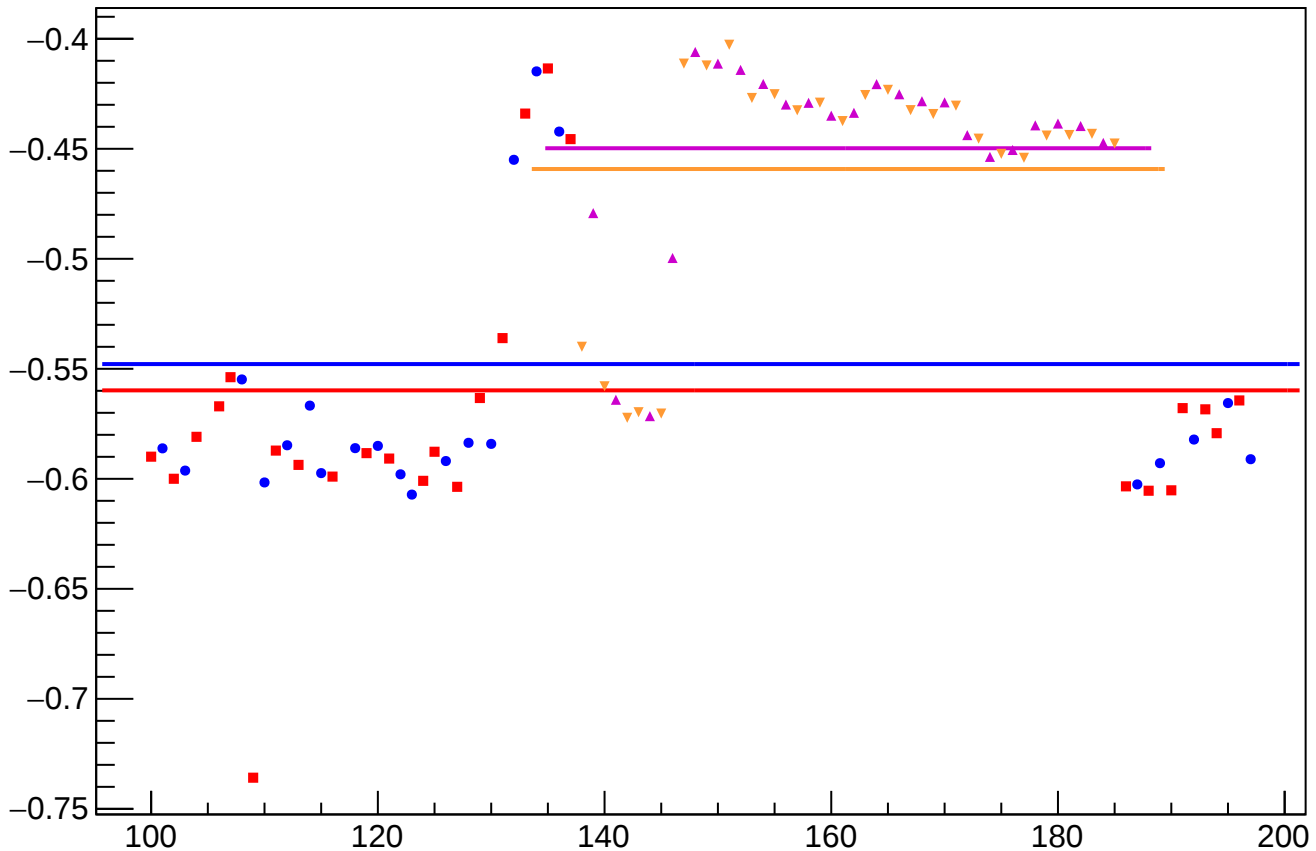
Right: 0.000+/-0.000 χ^2/NDF : 33144757.4/47

In: 0.000+/-0.000 χ^2/NDF : 46663645.8/44

Out: 0.000+/-0.000 χ^2/NDF : 50173917.7/50

All: 0.000+/-0.000 χ^2/NDF : 96837961.7/95

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 ± 0.000 $\chi^2/\text{NDF}: 47440203.1/21$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 113808762.6/24$

Right Out: -0.560 ± 0.000 $\chi^2/\text{NDF}: 65245004.8/25$

Left In: -0.450 ± 0.000 $\chi^2/\text{NDF}: 76151485.7/22$

Left: -0.455 ± 0.000 $\chi^2/\text{NDF}: 191688333.2/47$

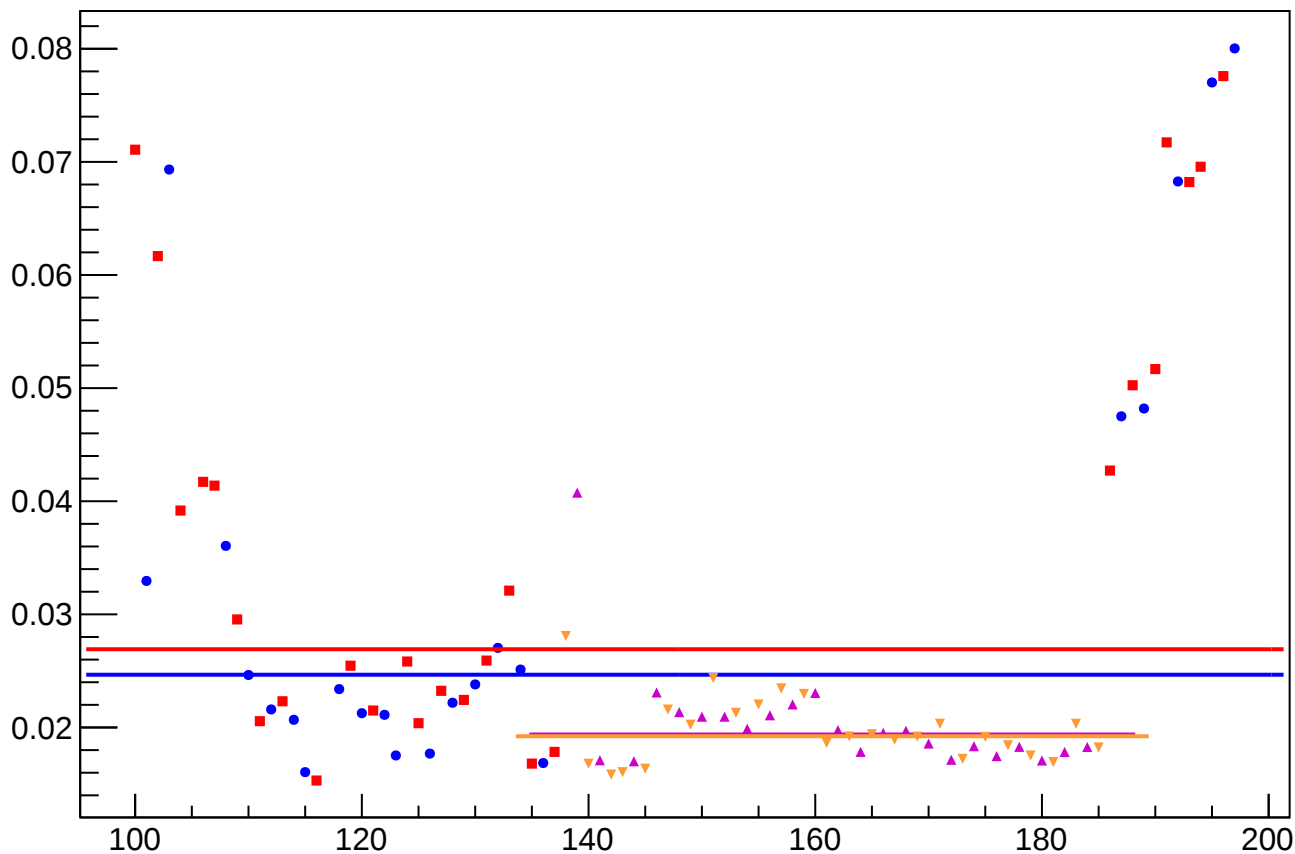
Right: -0.554 ± 0.000 $\chi^2/\text{NDF}: 113471739.7/47$

In: -0.472 ± 0.000 $\chi^2/\text{NDF}: 205739199.6/44$

Out: -0.481 ± 0.000 $\chi^2/\text{NDF}: 266356036.5/50$

All: -0.477 ± 0.000 $\chi^2/\text{NDF}: 473943992.5/95$

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3542421.2/21

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.027+/-0.000 χ^2/NDF : 4019166.3/25

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

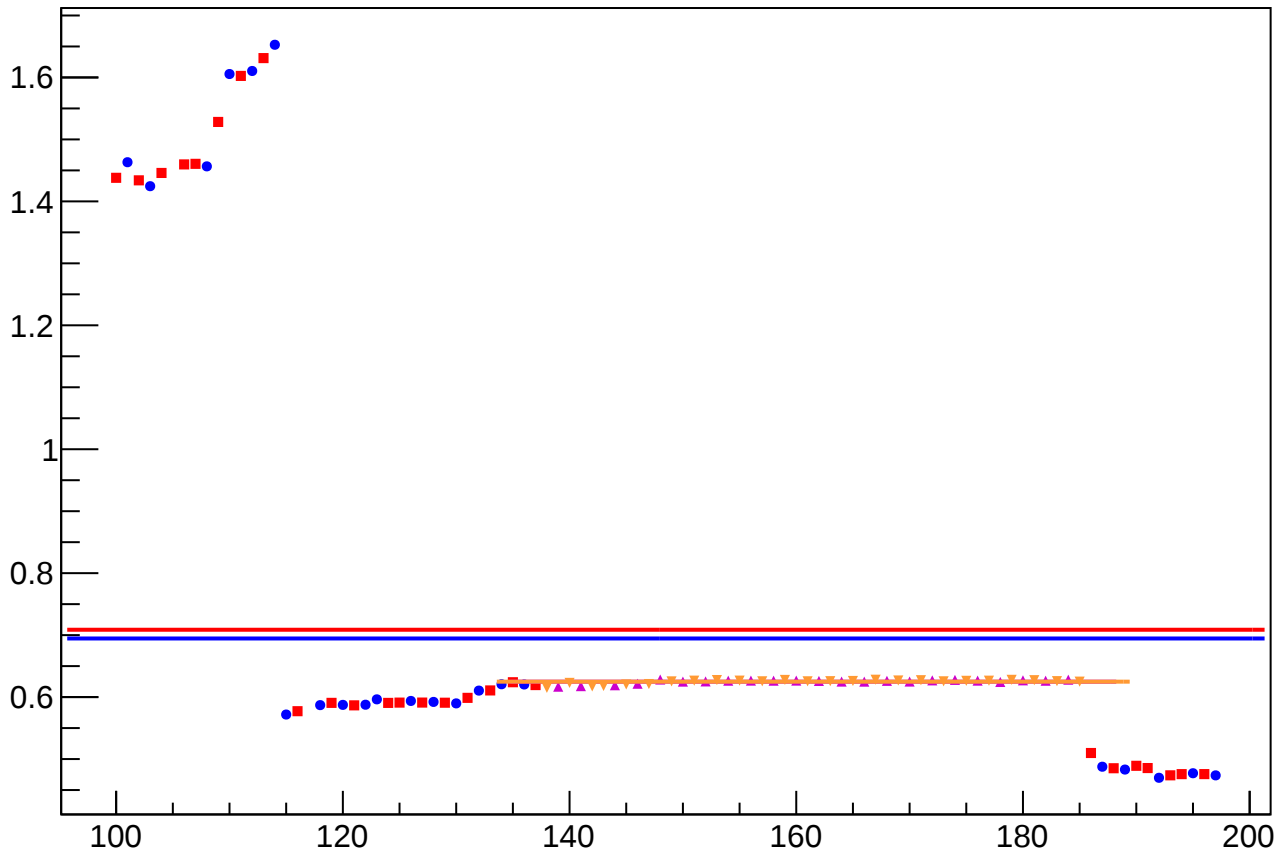
Right: 0.026+/-0.000 χ^2/NDF : 7617480.6/47

In: 0.021+/-0.000 χ^2/NDF : 4675560.1/44

Out: 0.021+/-0.000 χ^2/NDF : 5540376.9/50

All: 0.021+/-0.000 χ^2/NDF : 10220133.3/95

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.695 $\pm$ 0.000 χ^2/NDF : 4422352210.2/21

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF : 1442225.6/24

Right Out: 0.709 $\pm$ 0.000 χ^2/NDF : 5398336108.5/25

Left In: 0.625 $\pm$ 0.000 χ^2/NDF : 1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2/NDF : 2577573.3/47

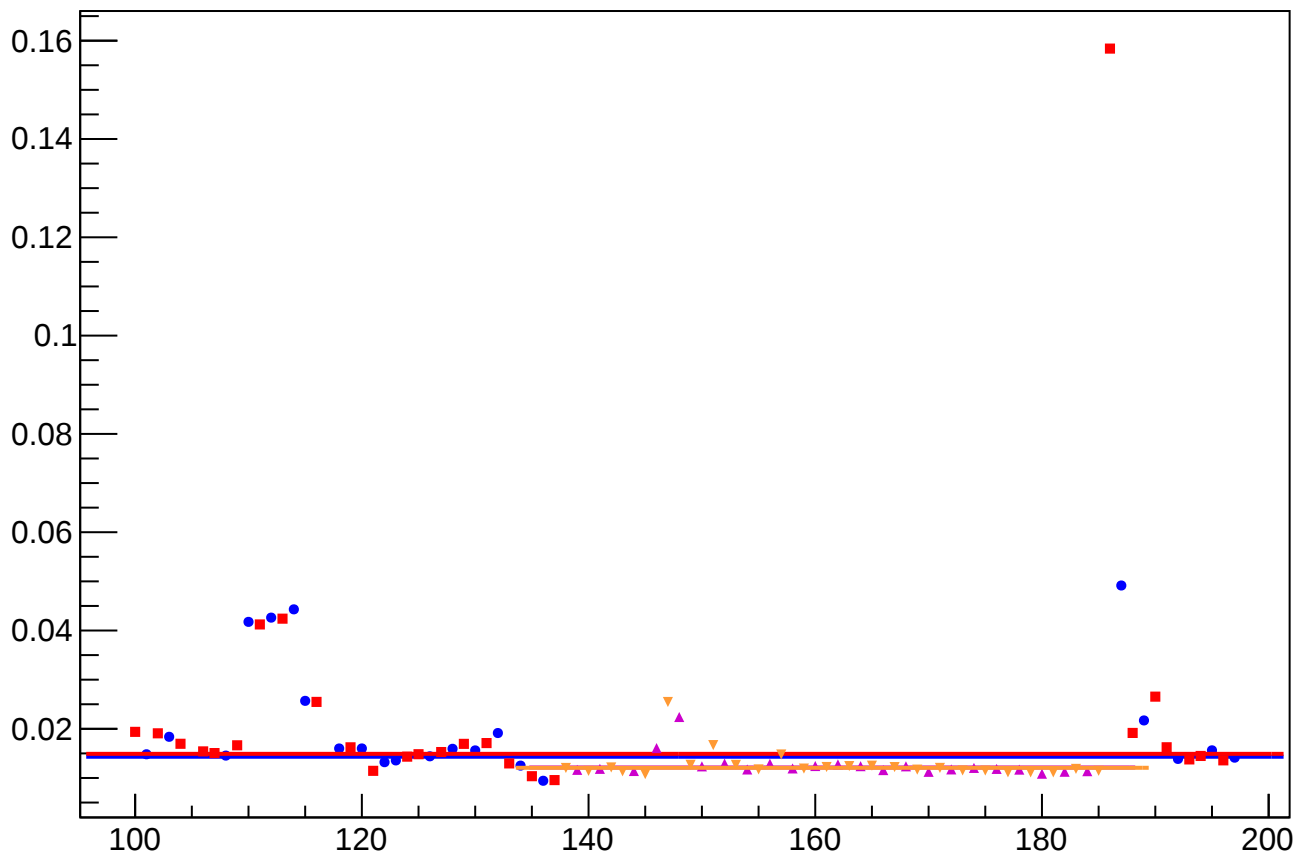
Right: 0.702 $\pm$ 0.000 χ^2/NDF : 9824851556.3/47

In: 0.643 $\pm$ 0.000 χ^2/NDF : 4569757410.2/44

Out: 0.647 $\pm$ 0.000 χ^2/NDF : 5622533539.7/50

All: 0.645 $\pm$ 0.000 χ^2/NDF : 10193339708.8/9

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1639514.2/21

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

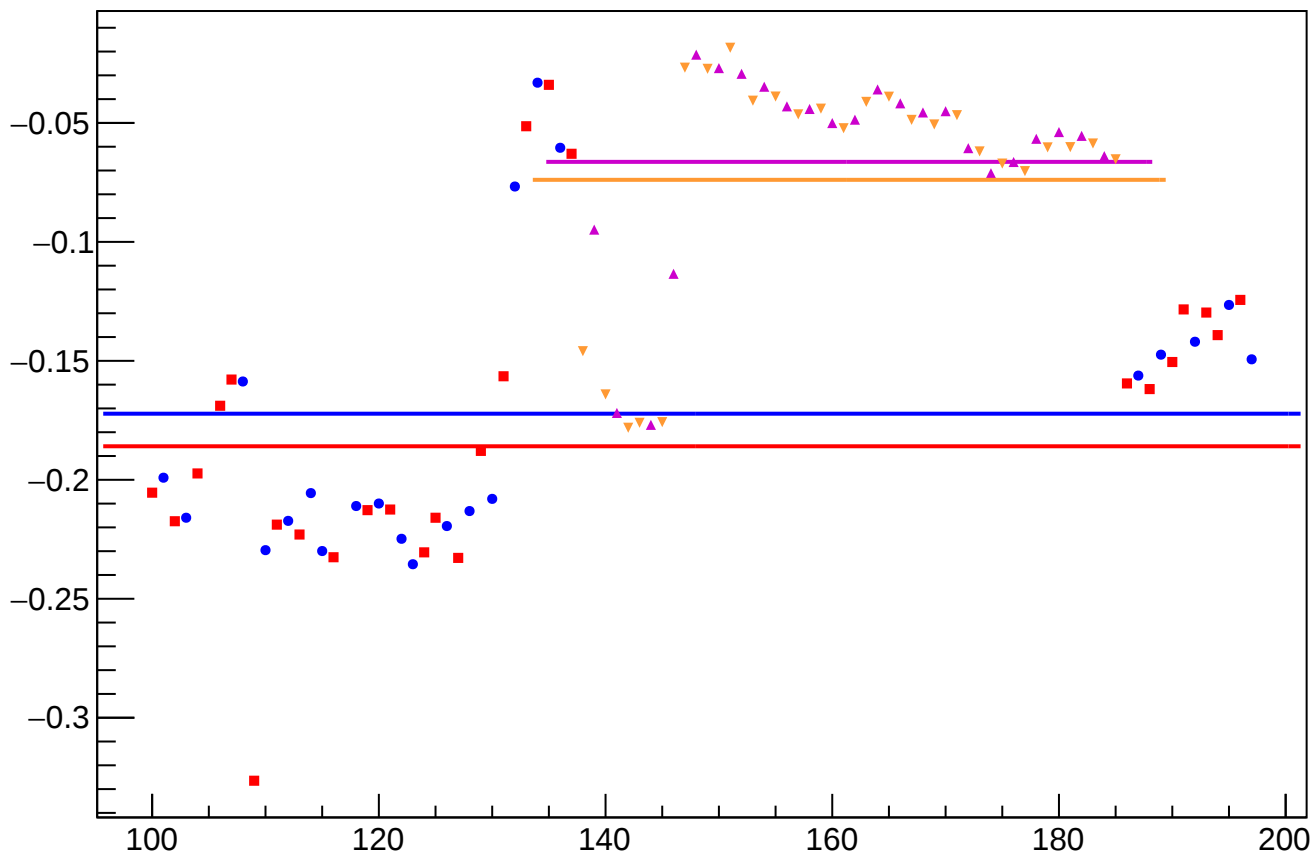
Right: 0.015+/-0.000 χ^2/NDF : 3720843.8/47

In: 0.013+/-0.000 χ^2/NDF : 2415163.0/44

Out: 0.013+/-0.000 χ^2/NDF : 3235063.6/50

All: 0.013+/-0.000 χ^2/NDF : 5651948.9/95

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172+/-0.000 χ^2/NDF : 67532160.0/21

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

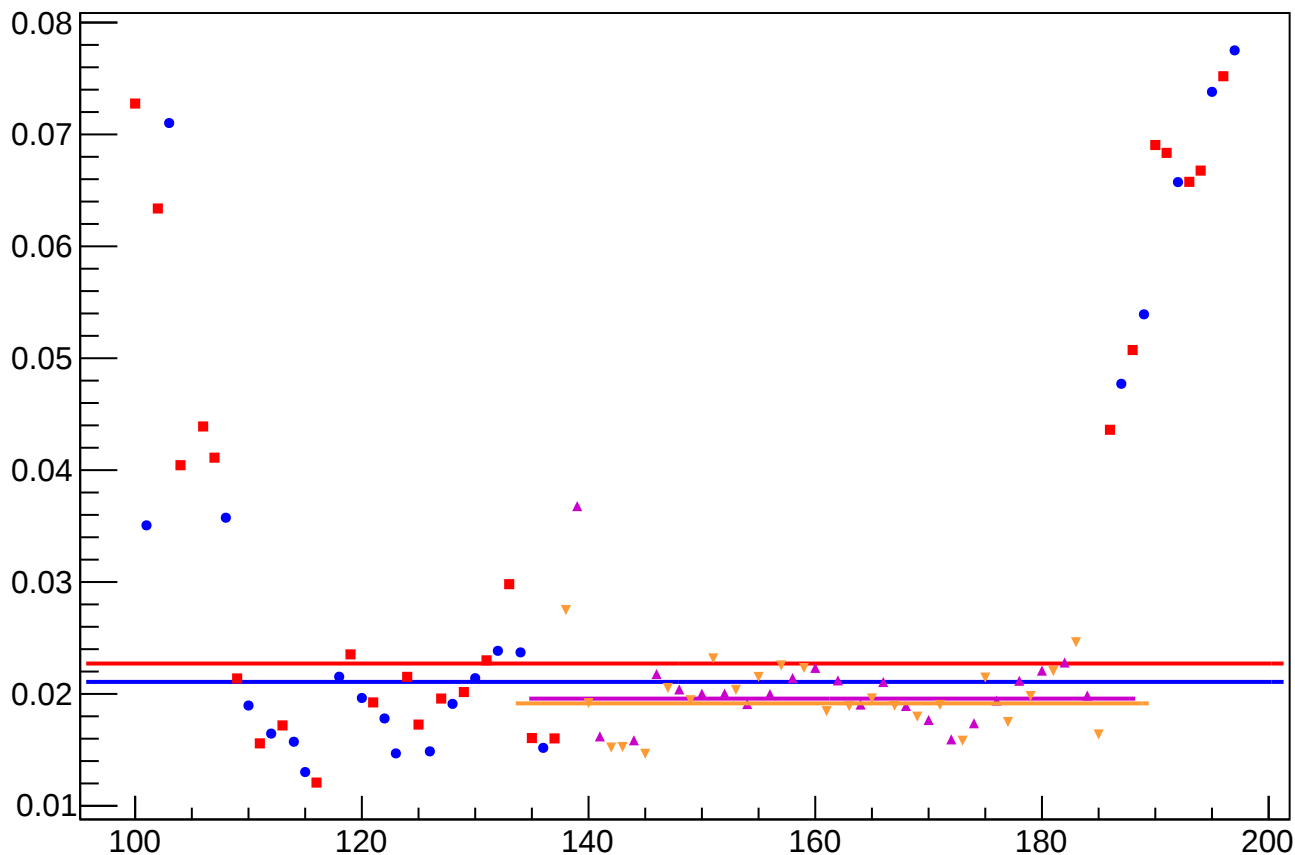
Right: -0.179+/-0.000 χ^2/NDF : 152499066.6/47

In: -0.096+/-0.000 χ^2/NDF :261008978.6/44

Out: -0.103+/-0.000 χ^2/NDF :326150454.8/50

All: -0.100+/-0.000 χ^2/NDF : 588542899.4/95

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 4168615.9/21

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

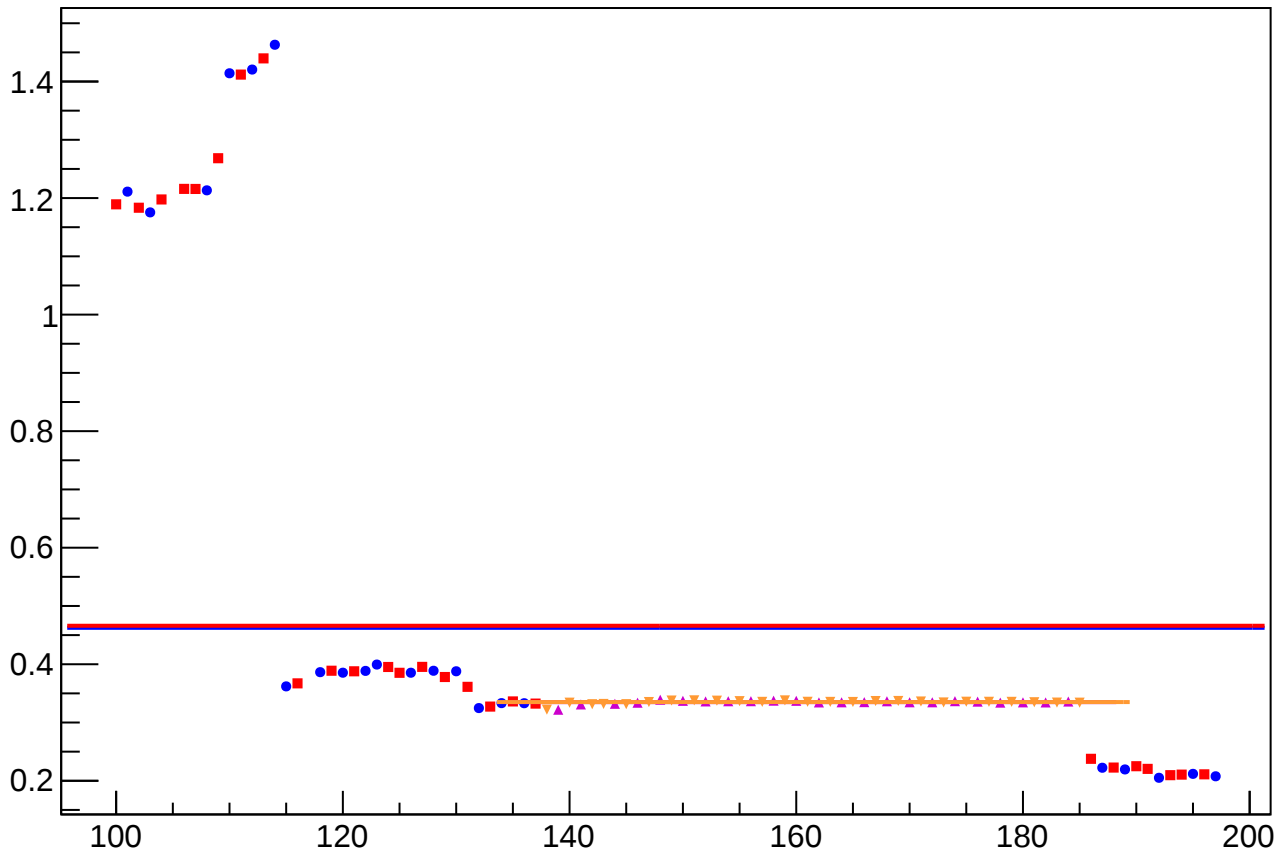
Right: 0.022+/-0.000 χ^2/NDF : 9193958.2/47

In: 0.020+/-0.000 χ^2/NDF : 4866685.7/44

Out: 0.020+/-0.000 χ^2/NDF : 5899724.9/50

All: 0.020+/-0.000 χ^2/NDF : 10766800.2/95

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.463+/-0.000 χ^2/NDF : 6430393792.6/21

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

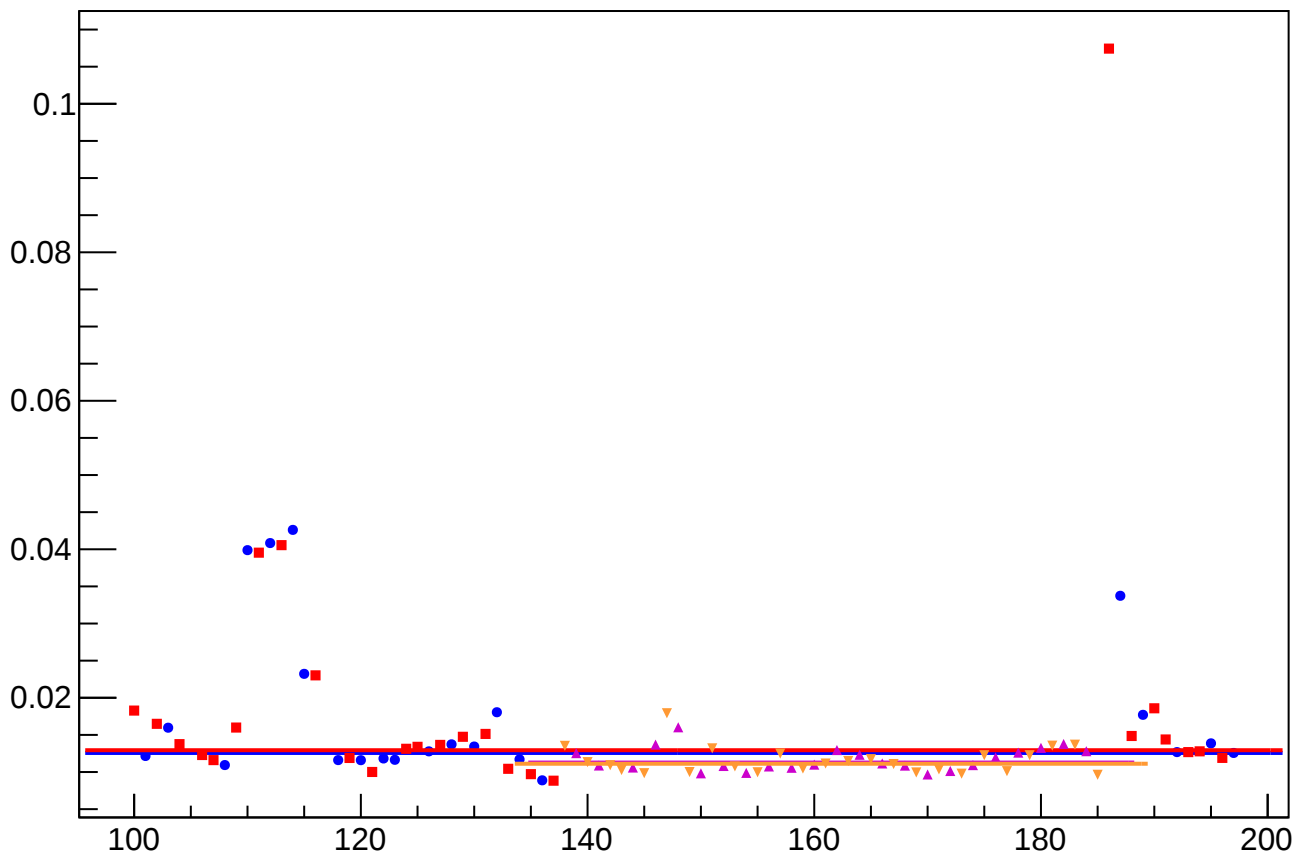
Right: 0.464+/-0.000 χ^2/NDF : 13973159214.8/47

In: 0.372+/-0.000 χ^2/NDF : 7047006677.5/44

Out: 0.373+/-0.000 χ^2/NDF : 8241032067.8/50

All: 0.372+/-0.000 χ^2/NDF : 15288096398.9/95

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508768.1/21

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

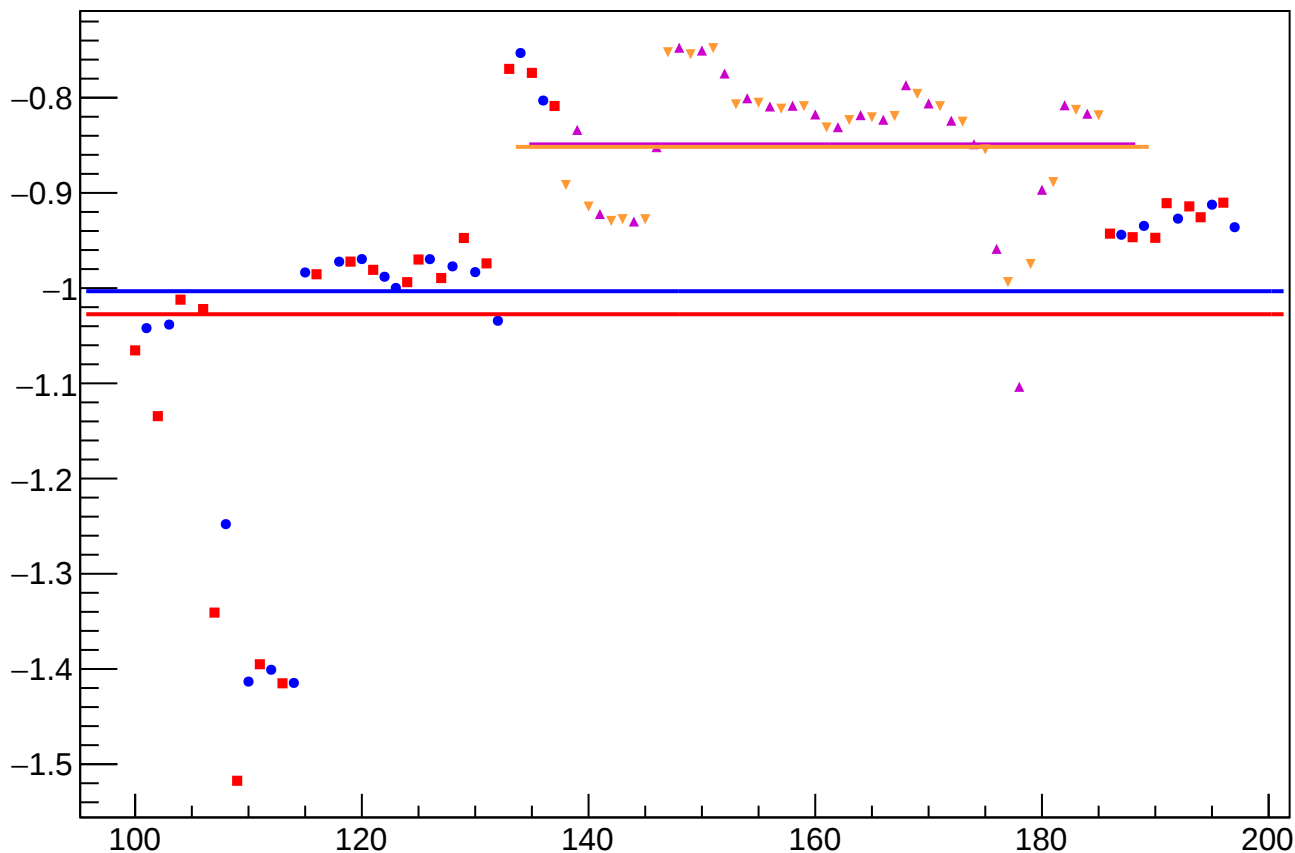
Right: 0.013+/-0.000 χ^2/NDF : 3444117.4/47

In: 0.012+/-0.000 χ^2/NDF :2137837.7/44

Out: 0.012+/-0.000 χ^2/NDF :2805662.4/50

All: 0.012+/-0.000 χ^2/NDF : 4943519.9/95

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003 ± 0.000 χ^2/NDF : 397347767.5/21

Left Out: -0.852 ± 0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.027 ± 0.000 χ^2/NDF : 546829773.8/25

Left In: -0.849 ± 0.000 χ^2/NDF : 256438306.8/22

Left: -0.850 ± 0.000 χ^2/NDF : 445849768.4/47

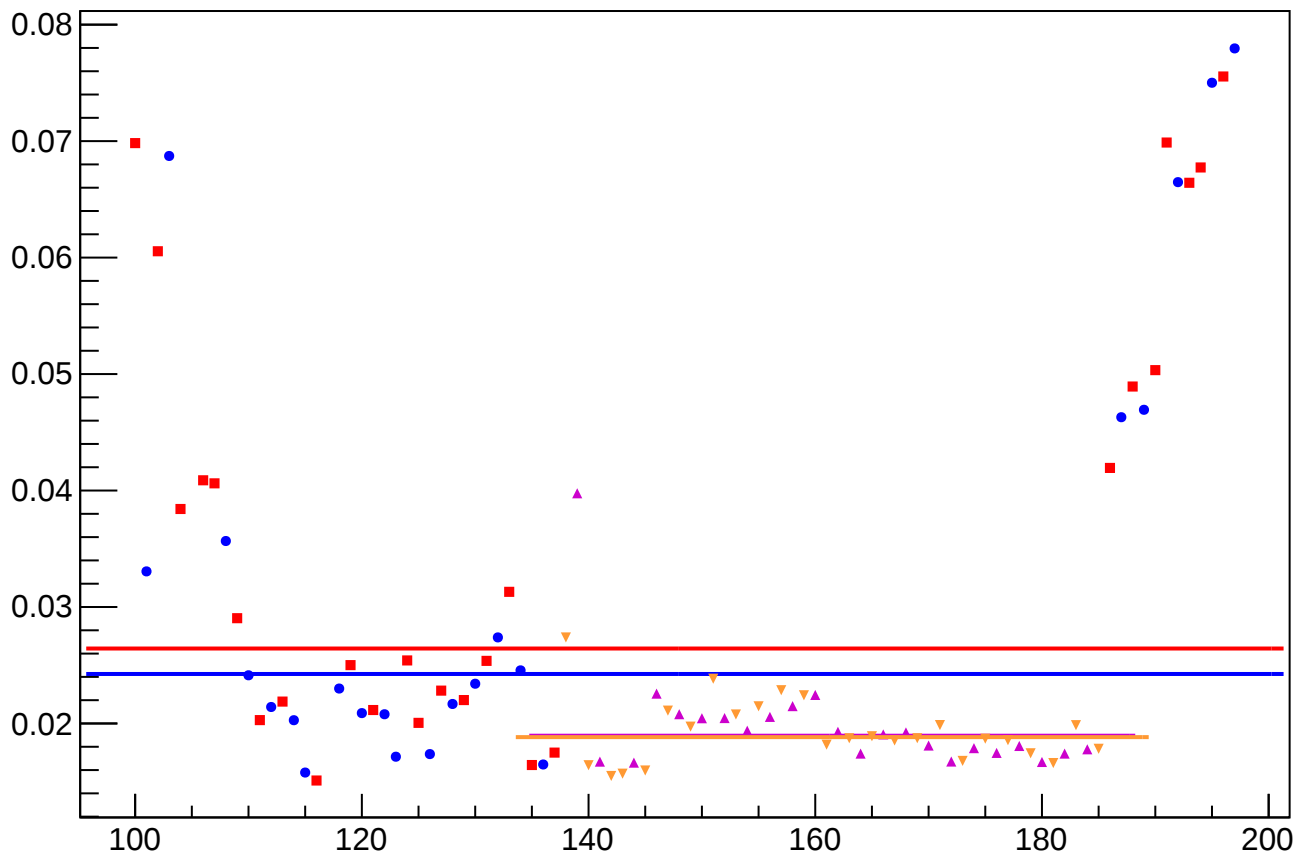
Right: -1.015 ± 0.000 χ^2/NDF : 947517849.2/47

In: -0.884 ± 0.000 χ^2/NDF : 864251418.4/44

Out: -0.889 ± 0.000 χ^2/NDF : 1012762067.8/50

All: -0.887 ± 0.000 χ^2/NDF : 1877723929.0/9

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2/NDF : 3542796.0/21

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

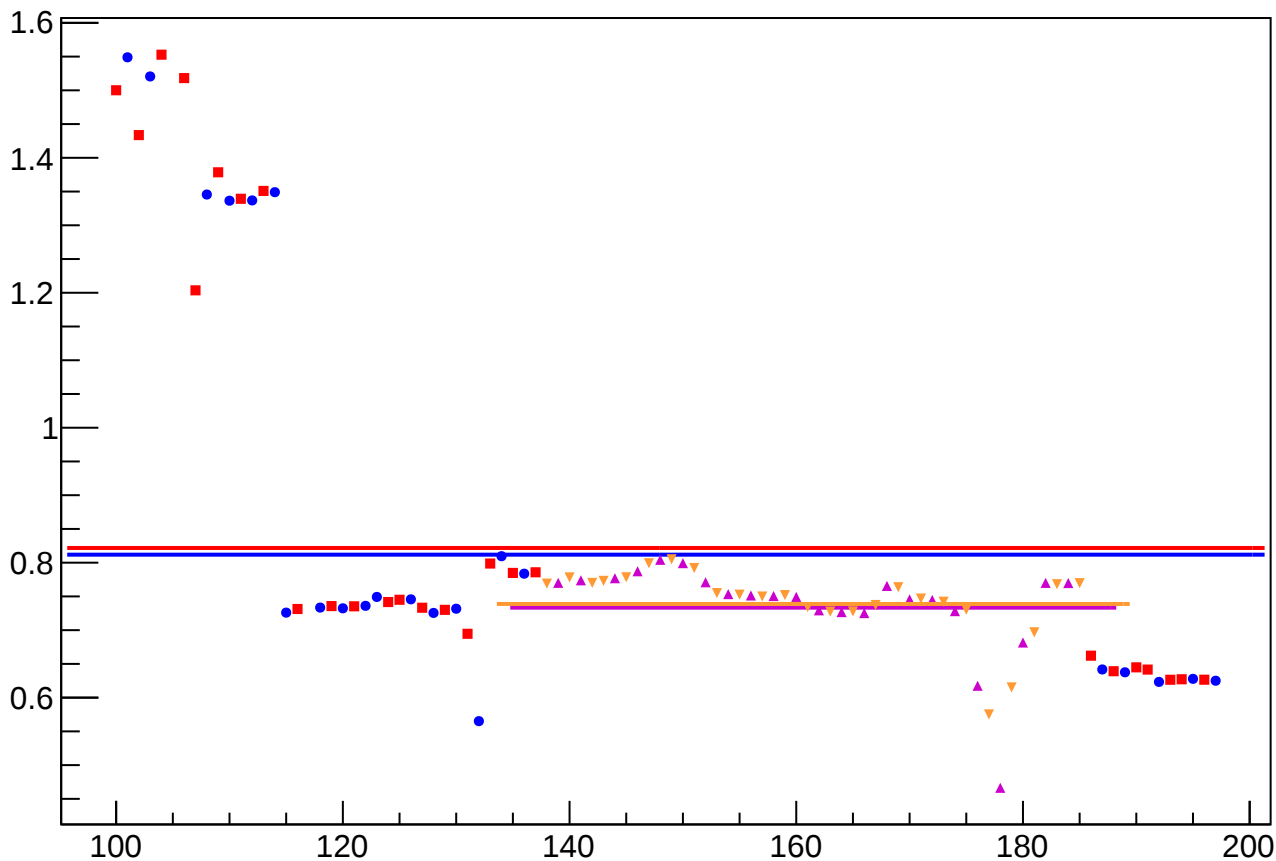
Right: 0.025 $\pm$ 0.000 χ^2/NDF : 7582949.5/47

In: 0.020 $\pm$ 0.000 χ^2/NDF :4685276.8/44

Out: 0.020 $\pm$ 0.000 χ^2/NDF :5512098.0/50

All: 0.020 $\pm$ 0.000 χ^2/NDF : 10202145.8/95

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.812 $\pm$ 0.000 χ^2/NDF : 3012704904.8/21

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

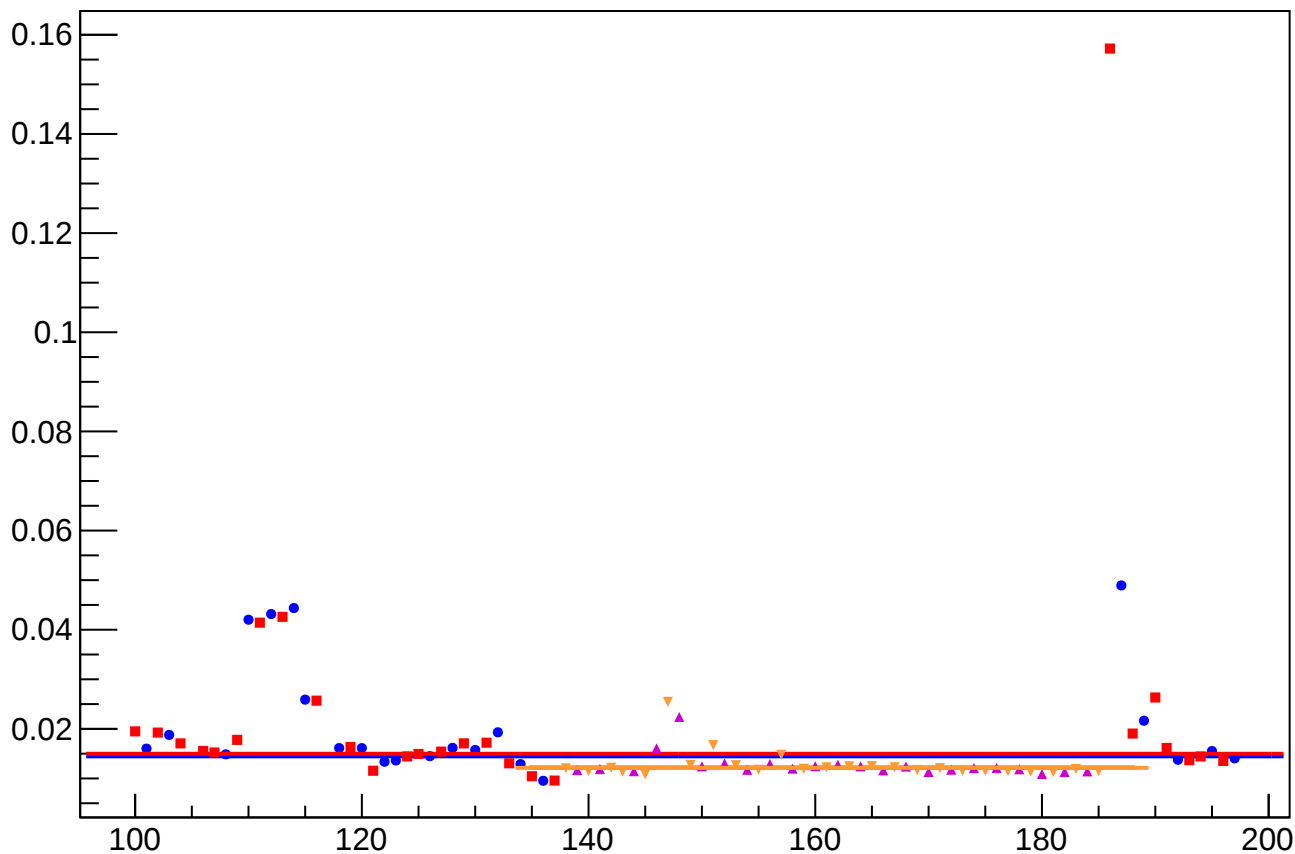
Right: 0.817 $\pm$ 0.000 χ^2/NDF : 6316735189.9/47

In: 0.754 $\pm$ 0.000 χ^2/NDF :3764816967.2/44

Out: 0.761 $\pm$ 0.000 χ^2/NDF :3851100228.8/50

All: 0.757 $\pm$ 0.000 χ^2/NDF : 7619511446.0/95

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1640978.7/21

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

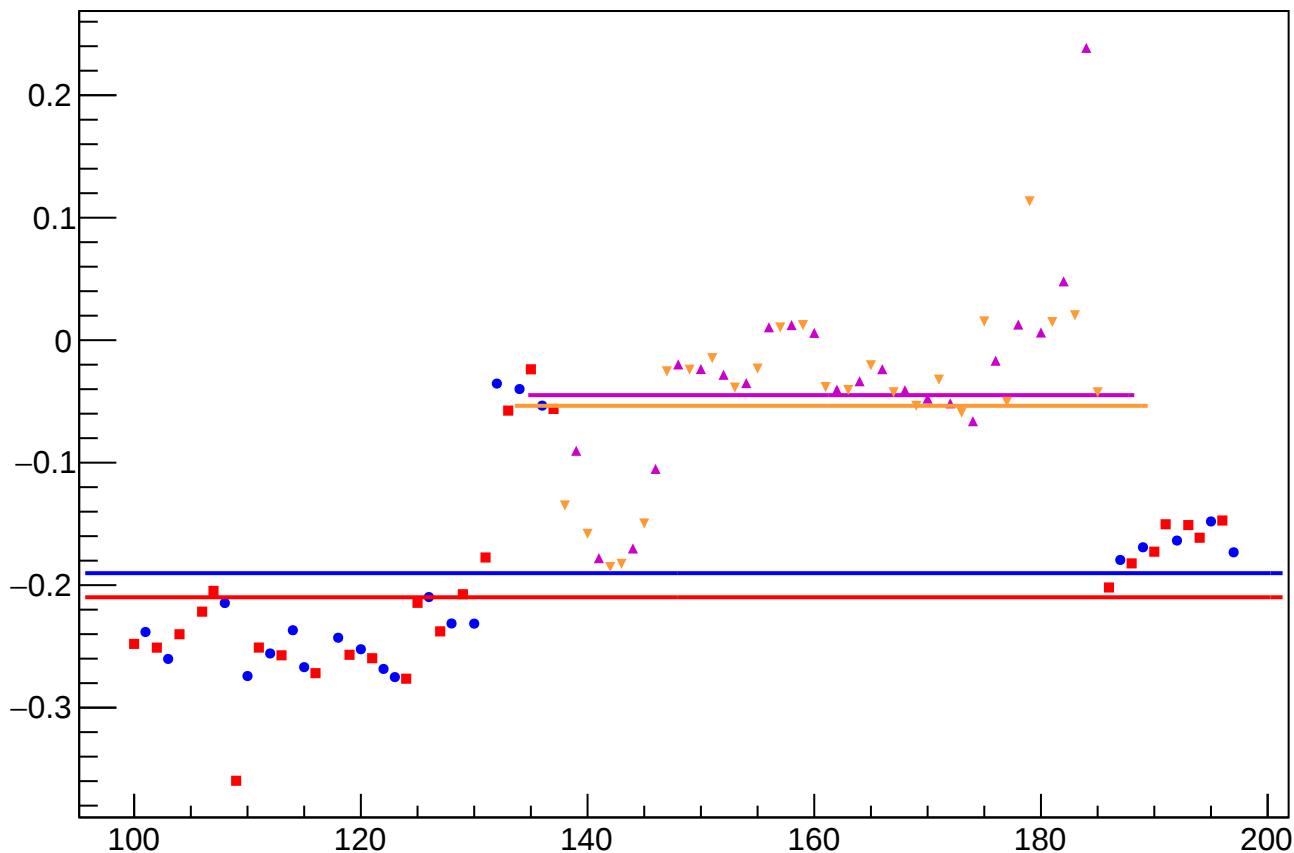
Right: 0.015+/-0.000 χ^2/NDF : 3722185.6/47

In: 0.013+/-0.000 χ^2/NDF : 2427101.7/44

Out: 0.013+/-0.000 χ^2/NDF : 3212541.9/50

All: 0.013+/-0.000 χ^2/NDF : 5641255.7/95

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 106480942.4/21$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.210 ± 0.000 $\chi^2/\text{NDF}: 111791156.2/25$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

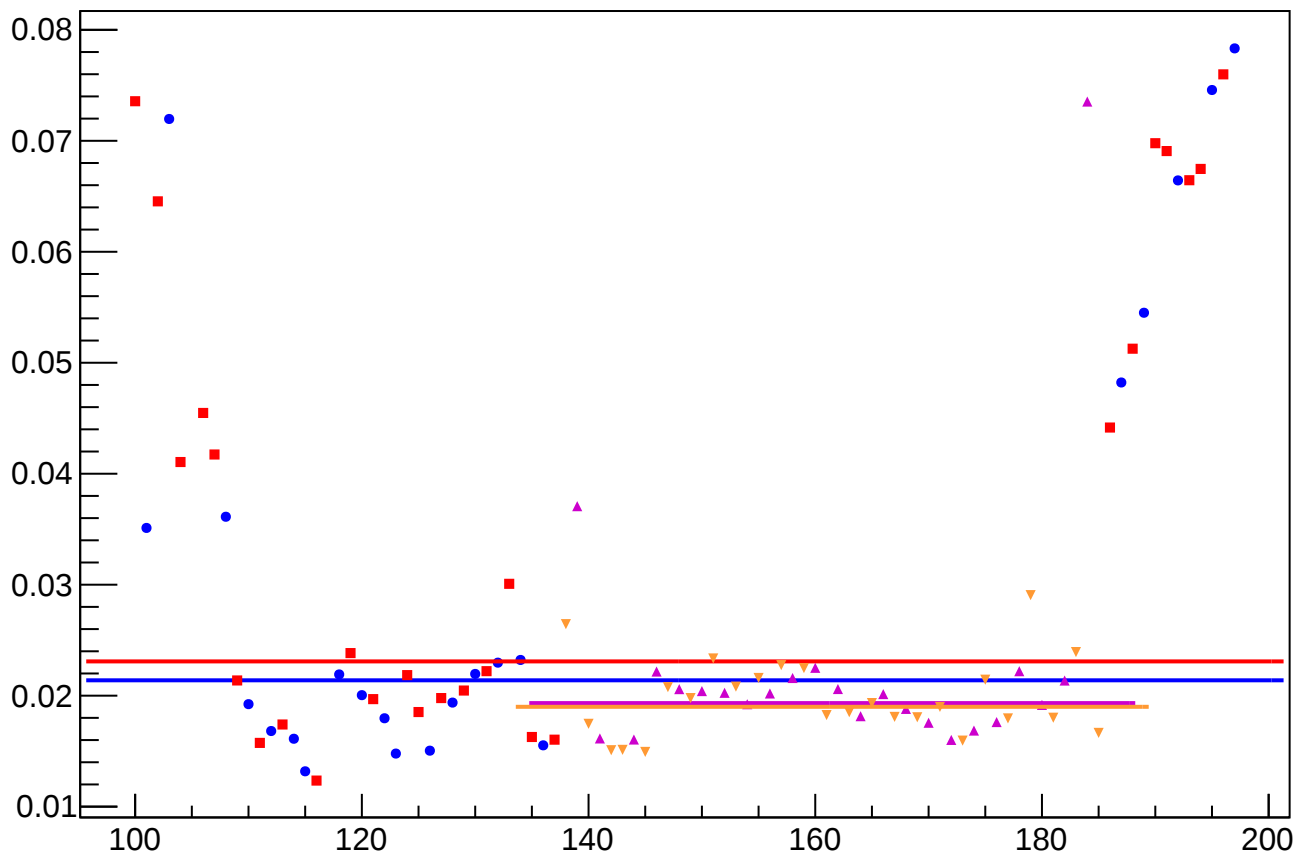
Right: -0.200 ± 0.000 $\chi^2/\text{NDF}: 221004742.4/47$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 450220337.7/44$

Out: -0.094 ± 0.000 $\chi^2/\text{NDF}: 534871575.5/50$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 987253147.5/95$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 4129741.2/21

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

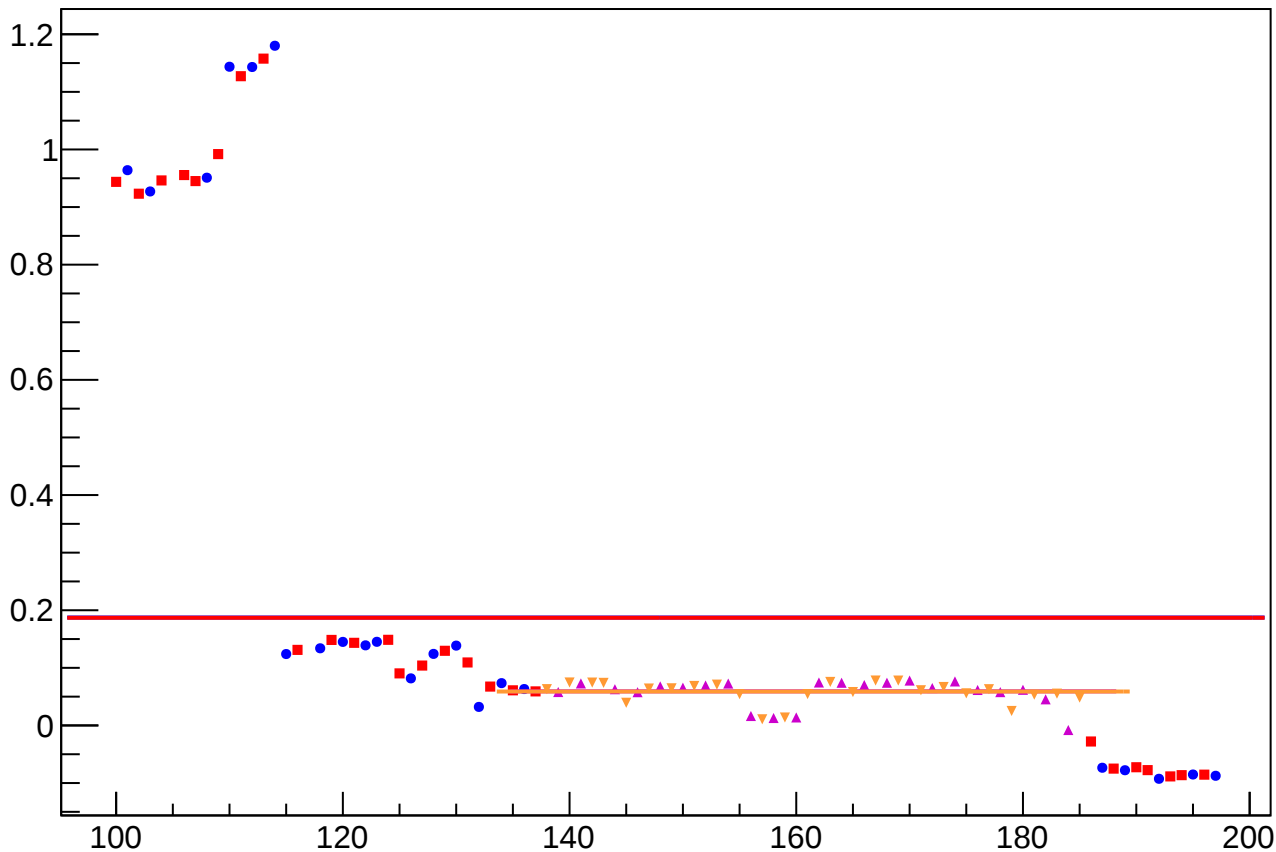
Right: 0.022+/-0.000 χ^2/NDF : 9128270.6/47

In: 0.020+/-0.000 χ^2/NDF : 5108984.4/44

Out: 0.020+/-0.000 χ^2/NDF : 6006484.2/50

All: 0.020+/-0.000 χ^2/NDF : 11116747.0/95

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.187+/-0.000 χ^2/NDF : 6855553534.0/21

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

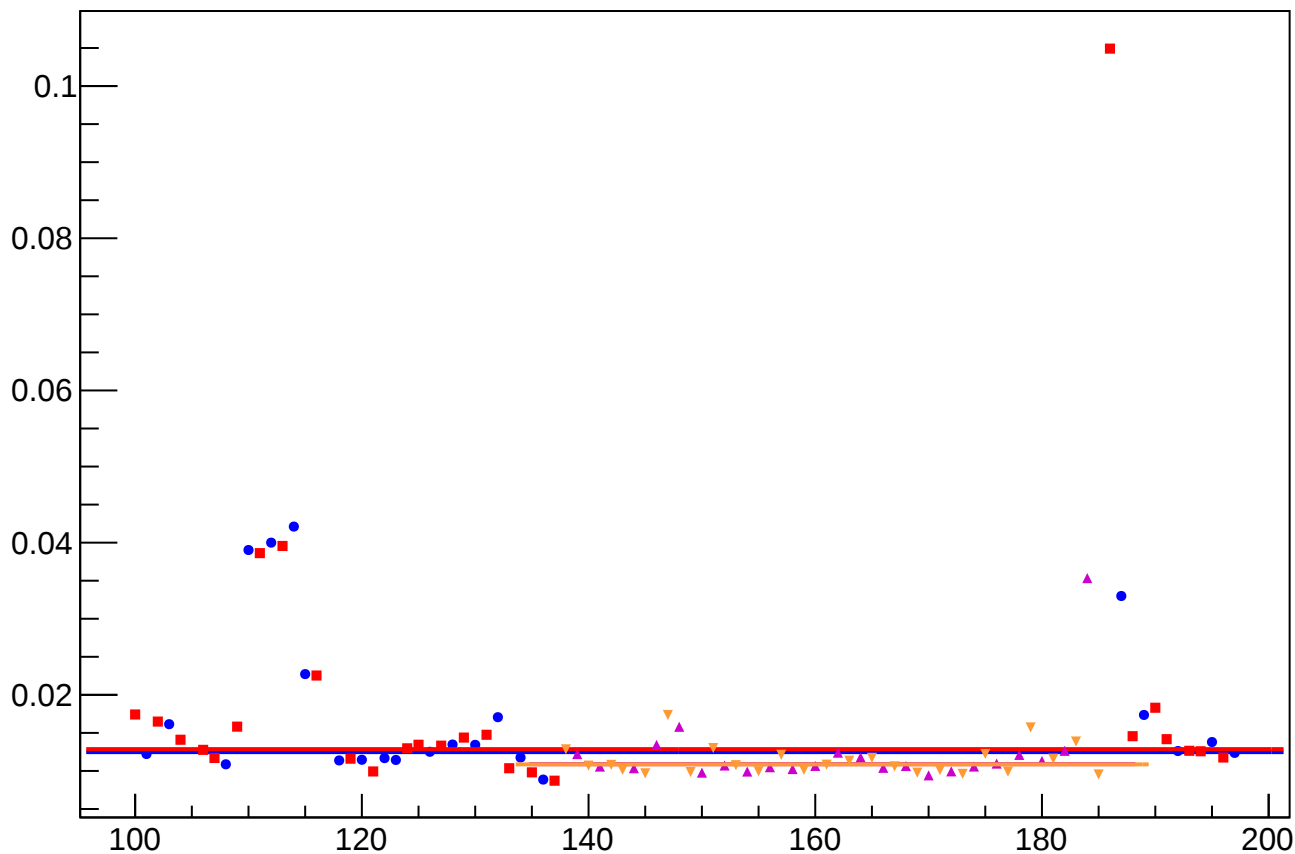
Right: 0.187+/-0.000 χ^2/NDF : 14720344762.3/47

In: 0.095+/-0.000 χ^2/NDF : 7551249568.6/44

Out: 0.095+/-0.000 χ^2/NDF : 8587527940.2/50

All: 0.095+/-0.000 χ^2/NDF : 16138777509.1/95

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1475907.7/21

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

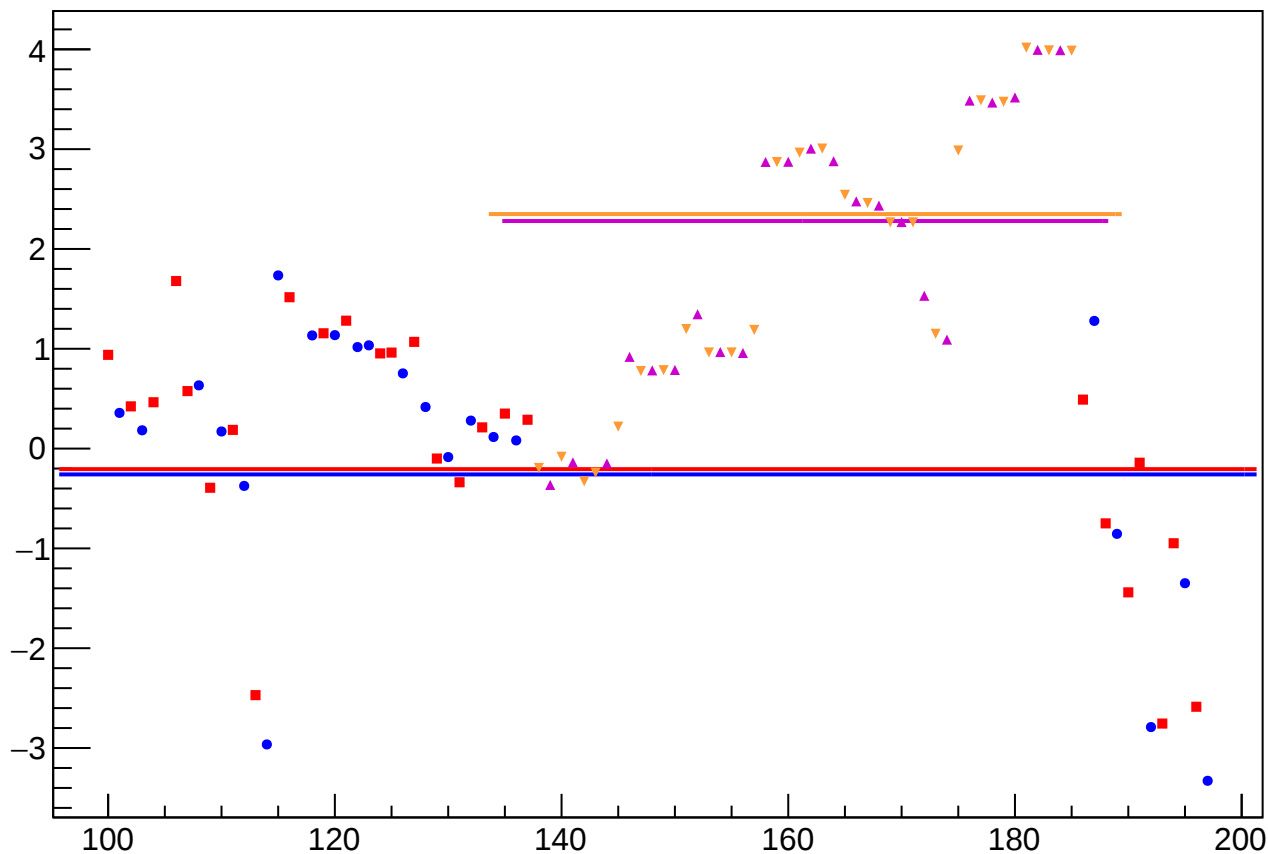
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3370345.4/47

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2200288.4/44

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2821679.1/50

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5023776.4/95

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.259+/-0.000 χ^2/NDF : 4047968749.3/21

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

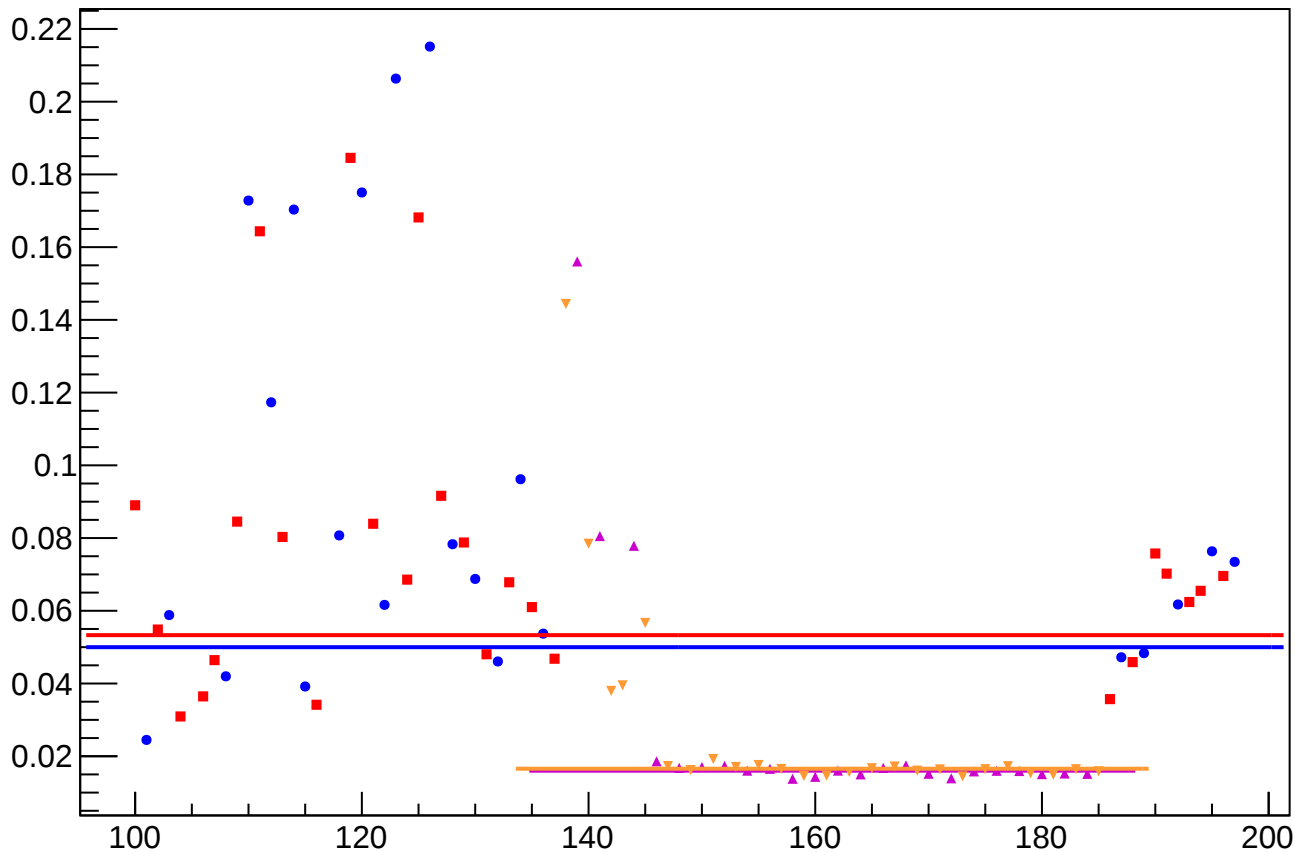
Right: -0.231+/-0.000 χ^2/NDF : 8211865984.9/47

In: 2.166+/-0.000 χ^2/NDF : 80660596617.4/44

Out: 2.219+/-0.000 χ^2/NDF : 84856347889.6/50

All: 2.192+/-0.000 χ^2/NDF : 165593055160.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.050 $\pm$ 0.000 χ^2 /NDF: 3263692.6/21

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

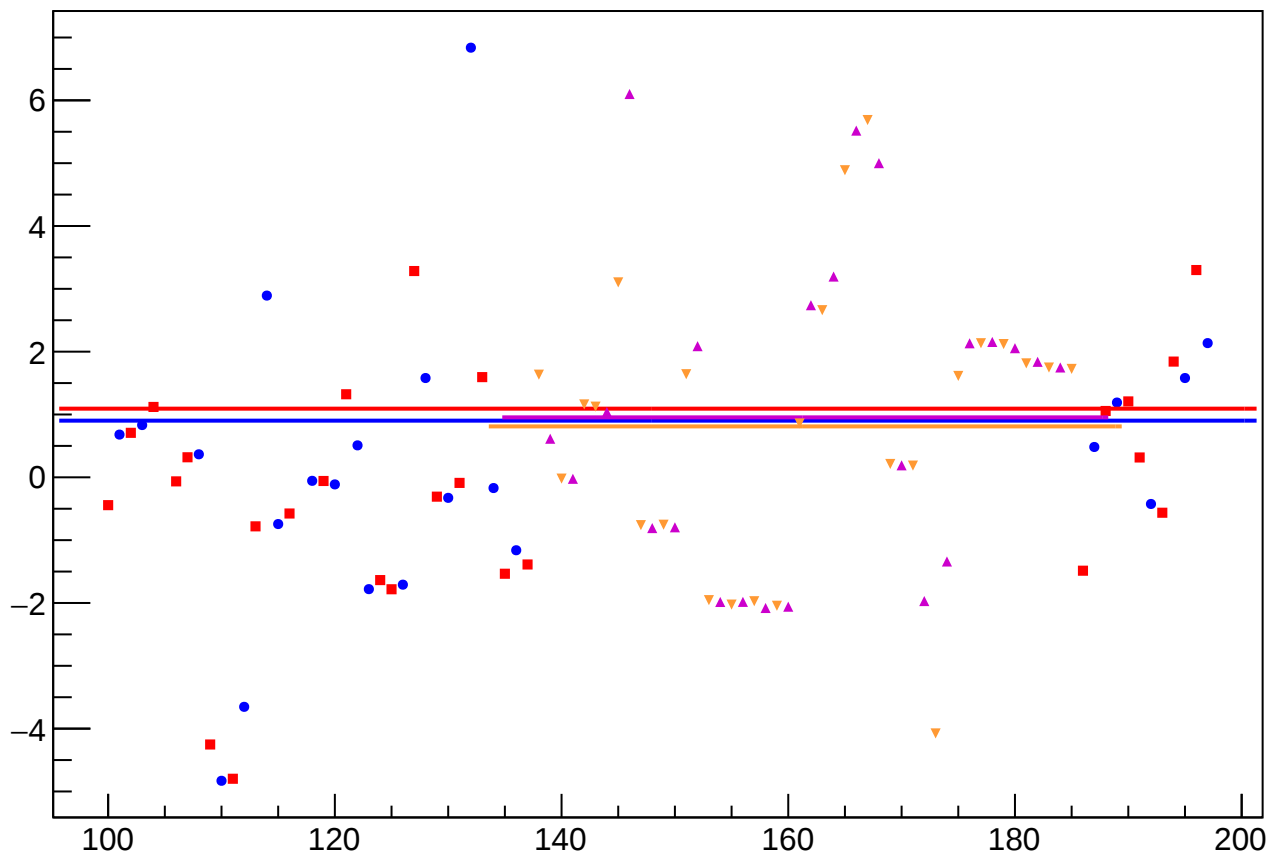
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 5927033.8/47

In: 0.018 $\pm$ 0.000 χ^2 /NDF:11156421.1/44

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:12320411.9/50

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 23520336.7/95

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.902 $\pm$ 0.000

χ^2/NDF : 18495792499.2/21

Left Out: 0.810 $\pm$ 0.000

χ^2/NDF : 507583198570.2/24

Right Out: 1.093 $\pm$ 0.000

χ^2/NDF : 22462606691.4/25

Left In: 0.954 $\pm$ 0.000

χ^2/NDF : 574792794608.3/22

Left: 0.883 $\pm$ 0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.001 $\pm$ 0.000

χ^2/NDF : 41157442091.2/47

In: 0.949 $\pm$ 0.000

χ^2/NDF : 593314211310.4/44

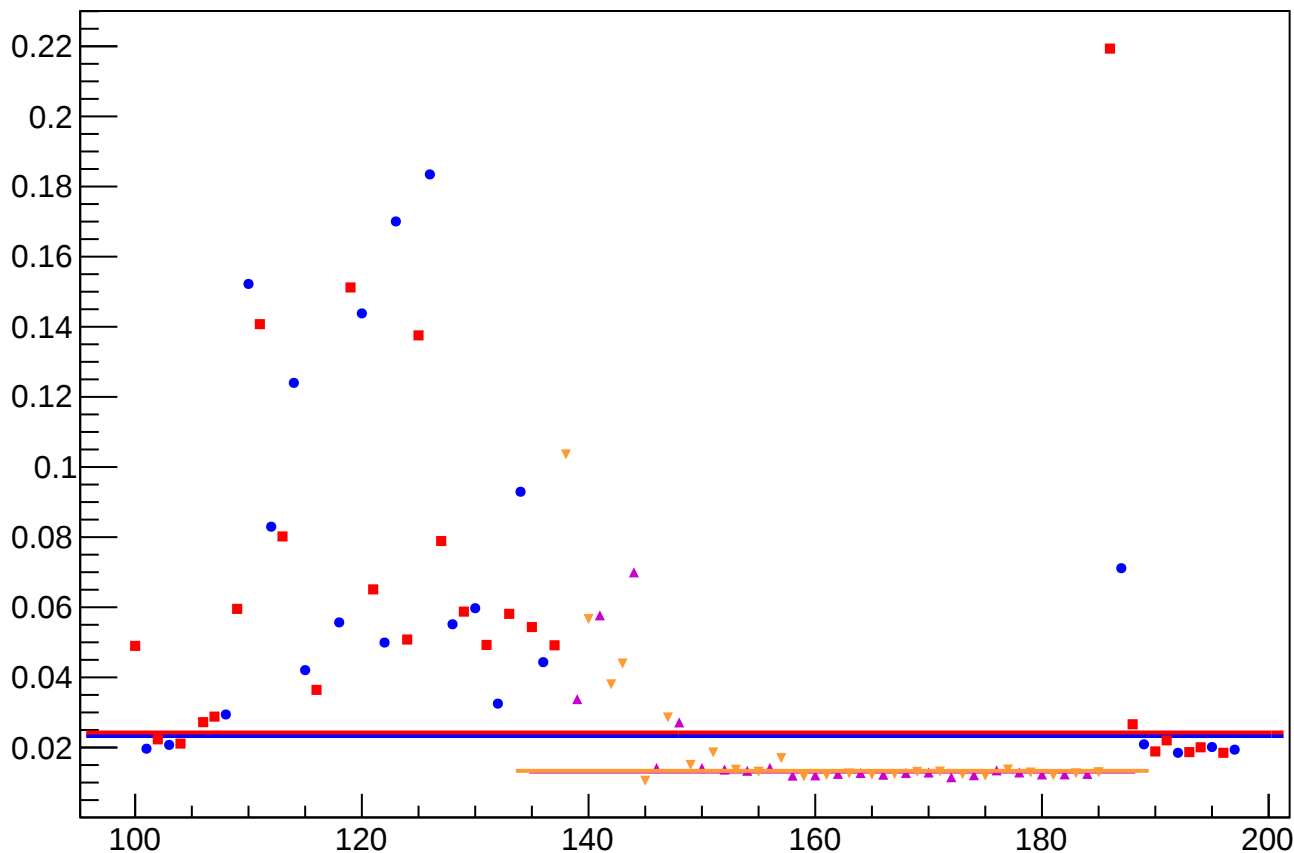
Out: 0.844 $\pm$ 0.000

χ^2/NDF : 530846587053.1/50

All: 0.896 $\pm$ 0.000

χ^2/NDF : 1124690728453.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 3581931.9/21

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

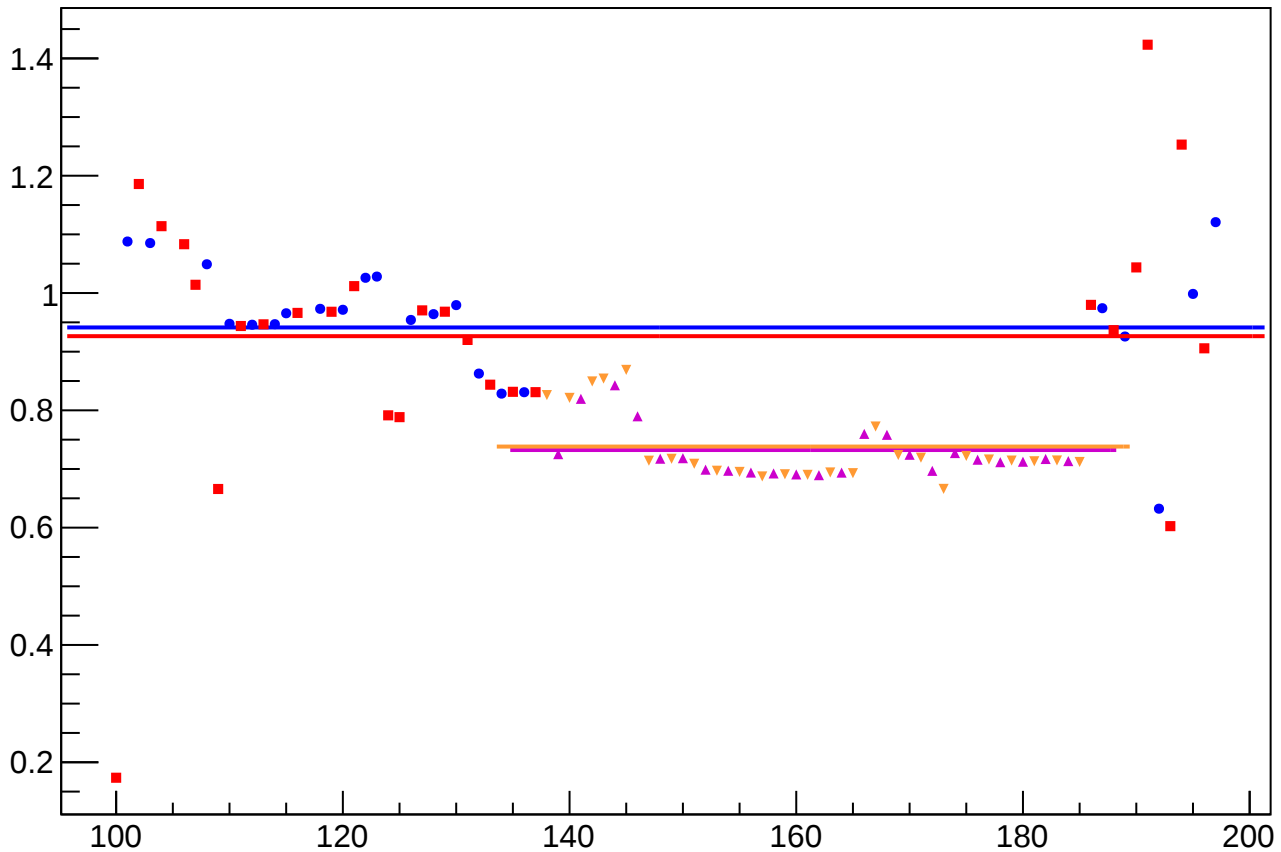
Right: 0.024+/-0.000 χ^2/NDF : 8145393.4/47

In: 0.014+/-0.000 χ^2/NDF : 7476778.1/44

Out: 0.015+/-0.000 χ^2/NDF : 9785272.1/50

All: 0.014+/-0.000 χ^2/NDF : 17276493.6/95

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.941+/-0.000 χ^2/NDF : 312988195.1/21

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

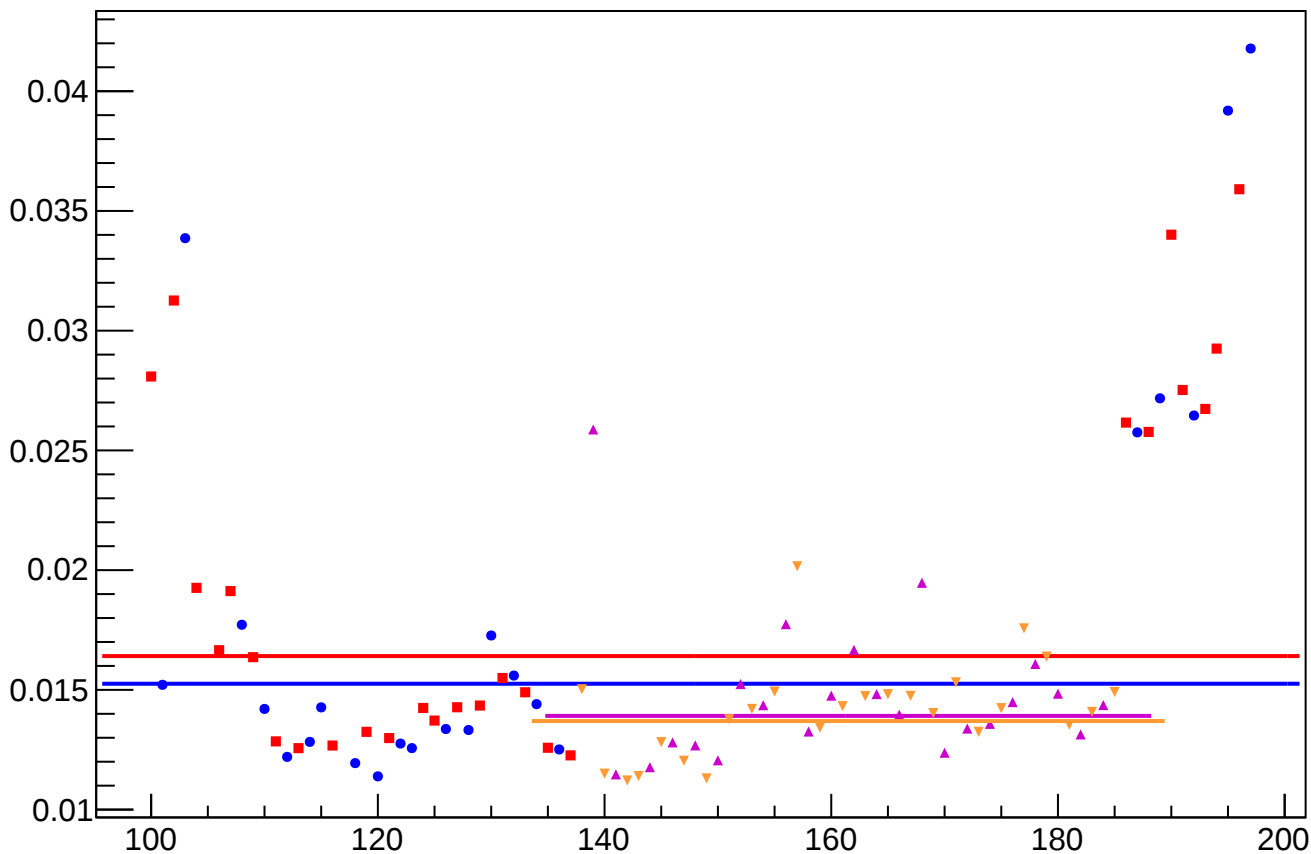
Right: 0.934+/-0.000 χ^2/NDF : 977456834.9/47

In: 0.793+/-0.000 χ^2/NDF : 1509969032.3/44

Out: 0.792+/-0.000 χ^2/NDF : 1838506418.3/50

All: 0.792+/-0.000 χ^2/NDF : 3348690496.7/99

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 2314745.0/21

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

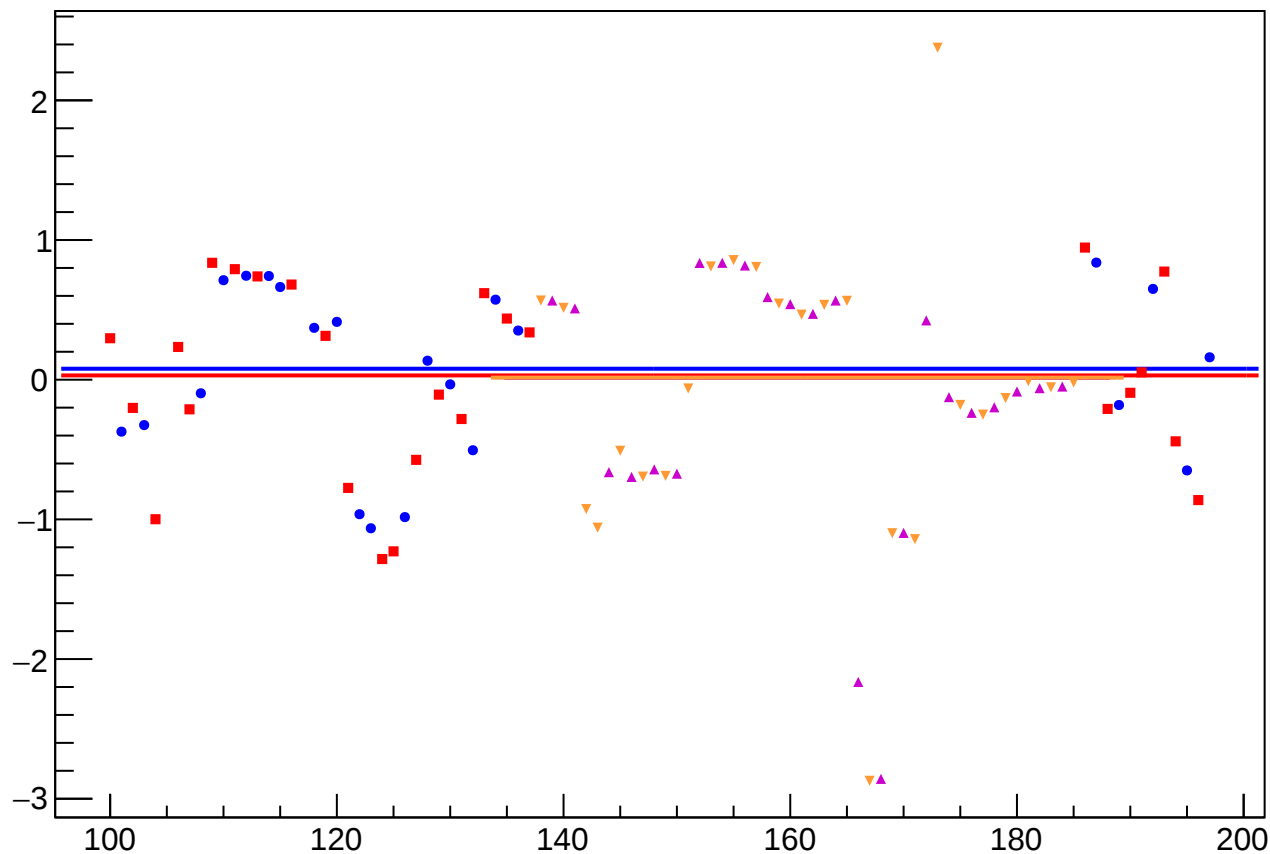
Right: 0.016+/-0.000 χ^2/NDF : 4625057.4/47

In: 0.014+/-0.000 χ^2/NDF : 3194063.6/44

Out: 0.014+/-0.000 χ^2/NDF : 3156641.3/50

All: 0.014+/-0.000 χ^2/NDF : 6353722.9/95

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.079+/-0.000 χ^2/NDF : 12218790175.0/21

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.031+/-0.000 χ^2/NDF : 22609521795.3/25

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

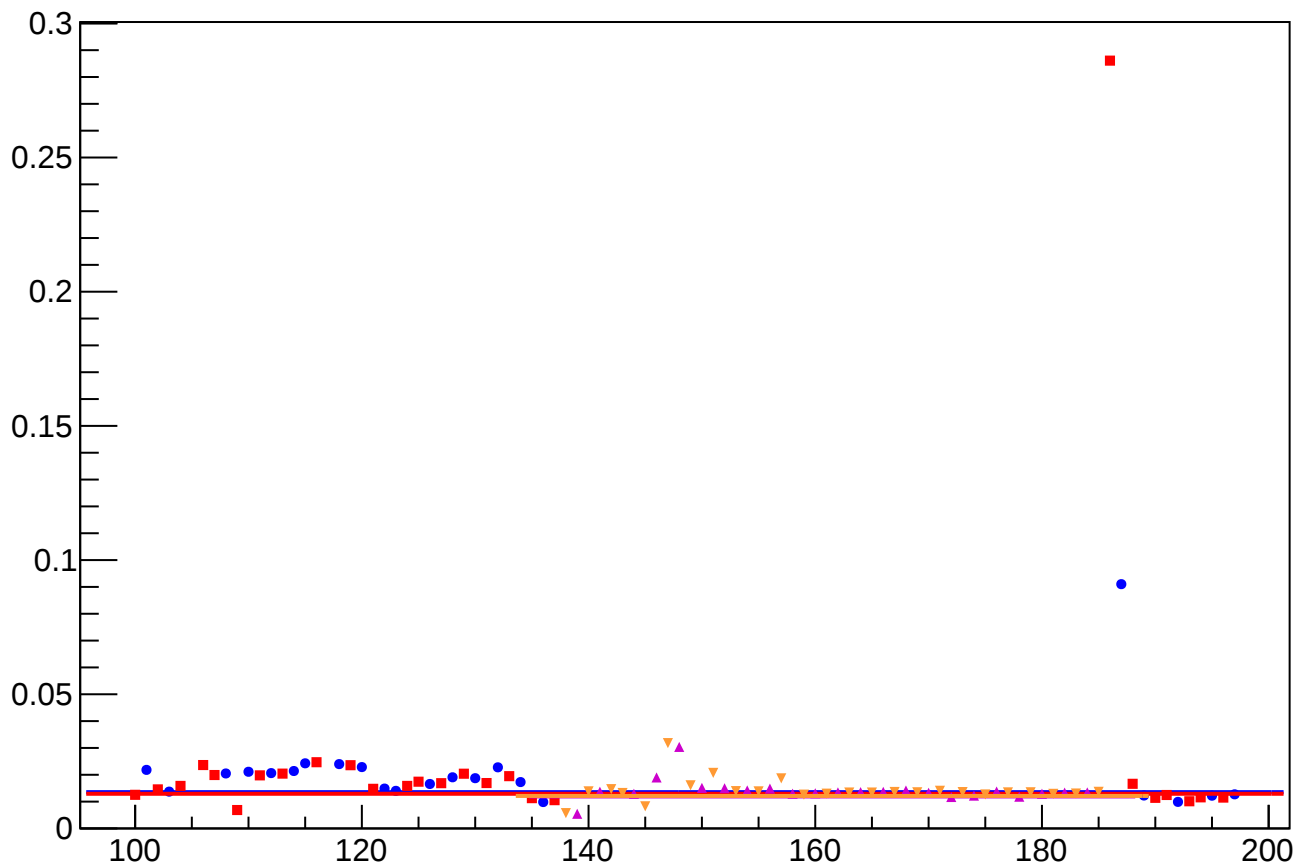
Right: 0.052+/-0.000 χ^2/NDF : 34883293004.7/47

In: 0.032+/-0.000 χ^2/NDF : 91797227370.9/44

Out: 0.020+/-0.000 χ^2/NDF : 118706321764.4/50

All: 0.026+/-0.000 χ^2/NDF : 210515056436.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1776797.4/21

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

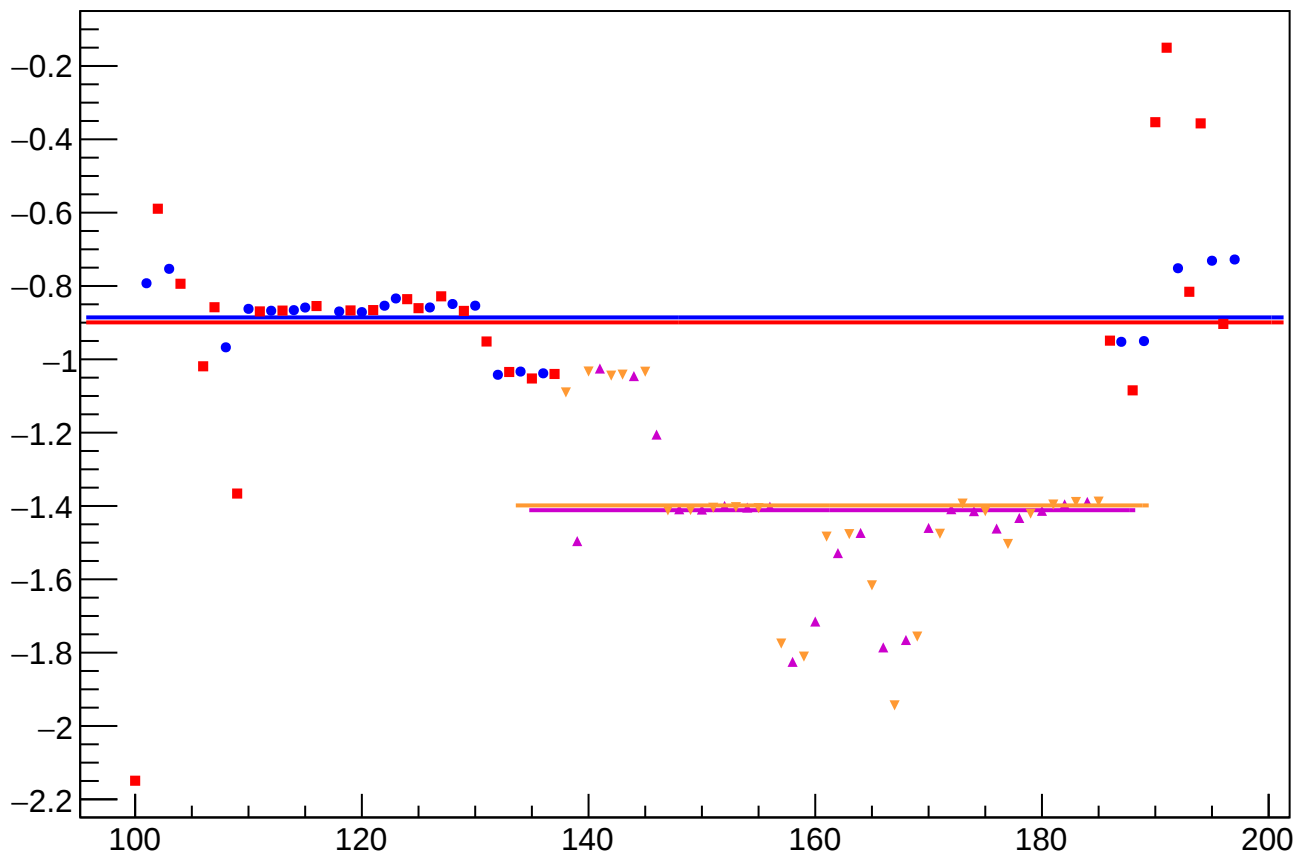
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4275570.6/47

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5041532.0/44

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5635698.6/50

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10677258.9/95

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.886 ± 0.000 $\chi^2/\text{NDF}: 47872135.0/21$

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 $\chi^2/\text{NDF}: 1248268857.1/47$

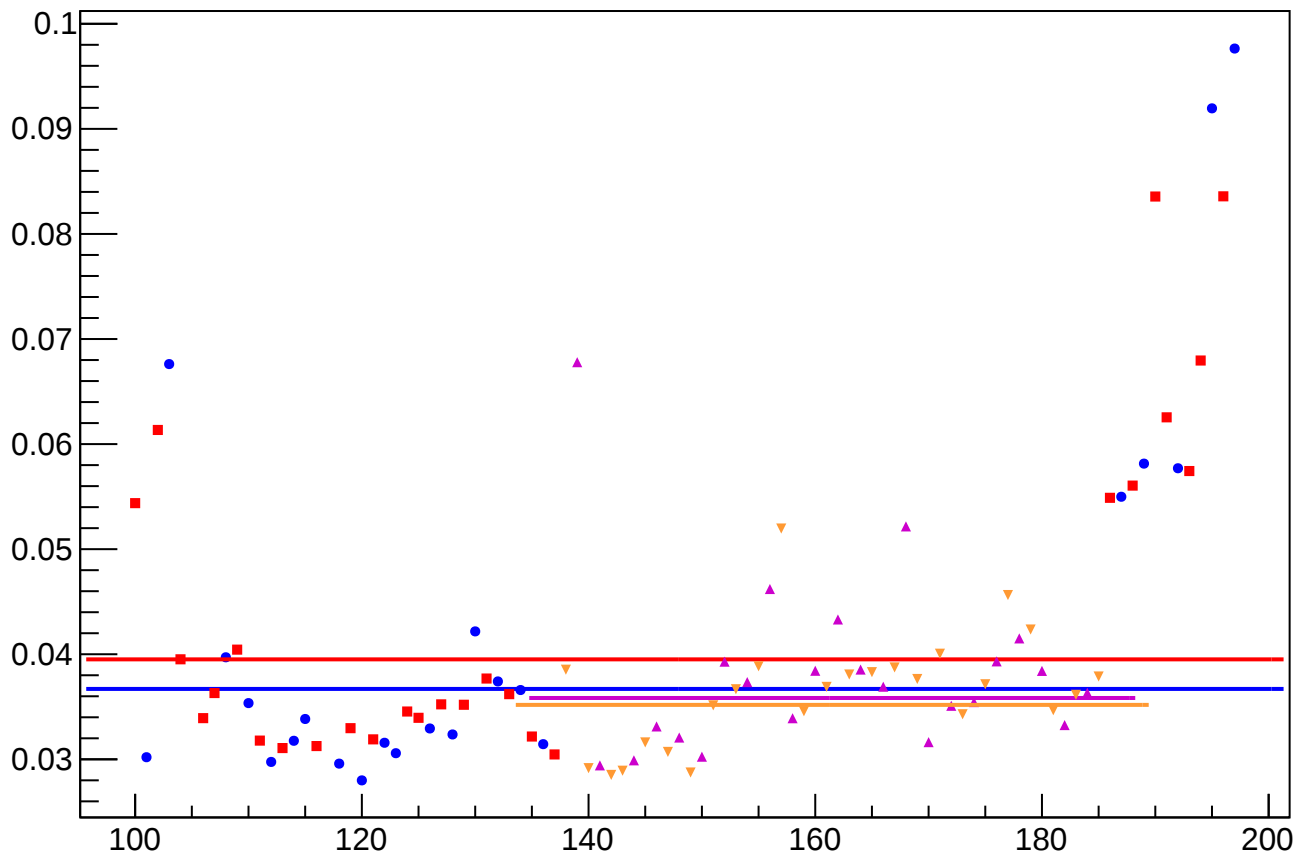
Right: -0.893 ± 0.000 $\chi^2/\text{NDF}: 290755313.1/47$

In: -1.239 ± 0.000 $\chi^2/\text{NDF}: 1647259980.0/44$

Out: -1.240 ± 0.000 $\chi^2/\text{NDF}: 2002360639.4/50$

All: -1.240 ± 0.000 $\chi^2/\text{NDF}: 3649636435.3/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.037 $\pm$ 0.000 χ^2 /NDF: 1989953.6/21

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

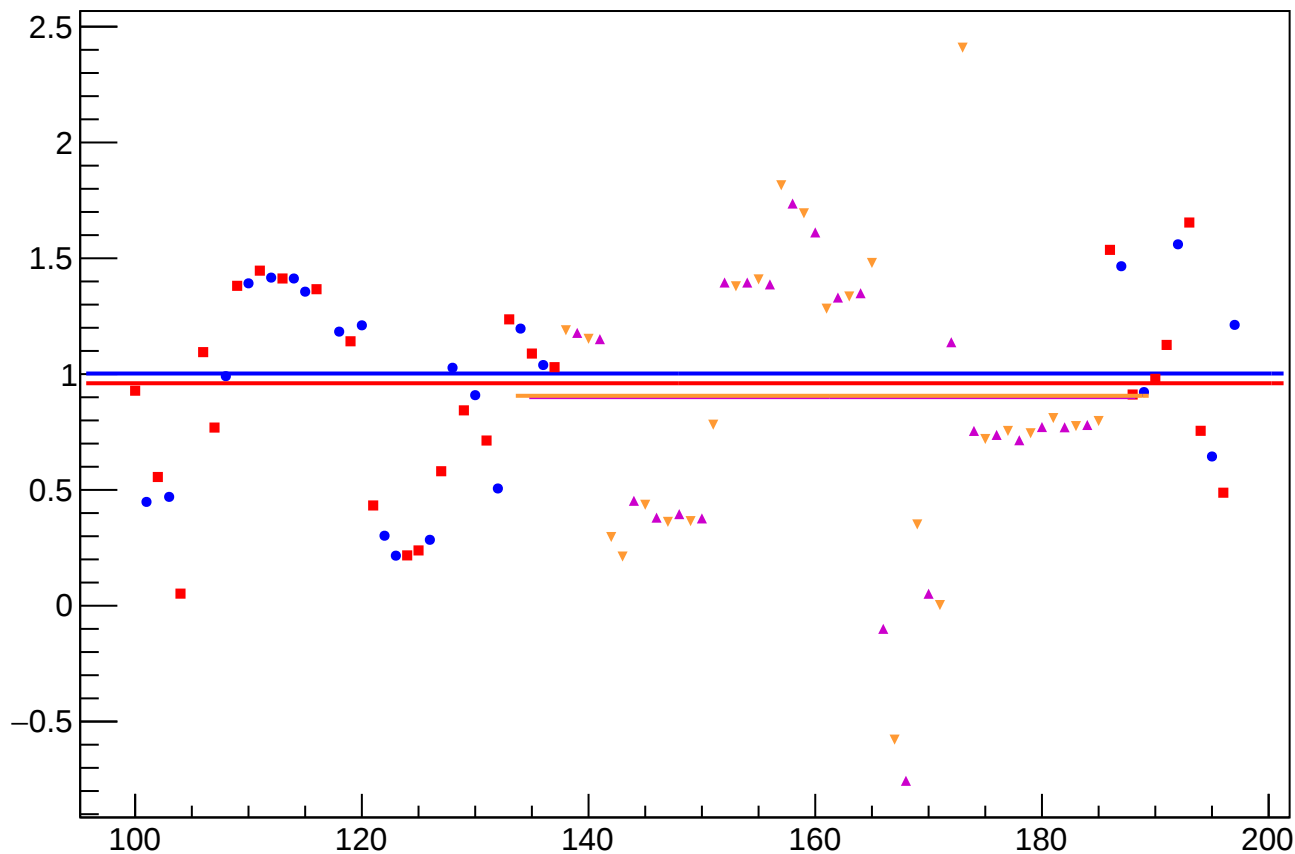
Right: 0.038 $\pm$ 0.000 χ^2 /NDF: 3801365.0/47

In: 0.036 $\pm$ 0.000 χ^2 /NDF: 2886790.8/44

Out: 0.037 $\pm$ 0.000 χ^2 /NDF: 2516806.8/50

All: 0.036 $\pm$ 0.000 χ^2 /NDF: 5407050.4/95

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.003+/-0.000

χ^2/NDF : 14324928270.7/21

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 0.980+/-0.000 χ^2/NDF : 33600944826.2/47

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.932+/-0.000 χ^2/NDF : 81926865052.8/44

Right Out: 0.960+/-0.000

χ^2/NDF : 19188862603.9/25

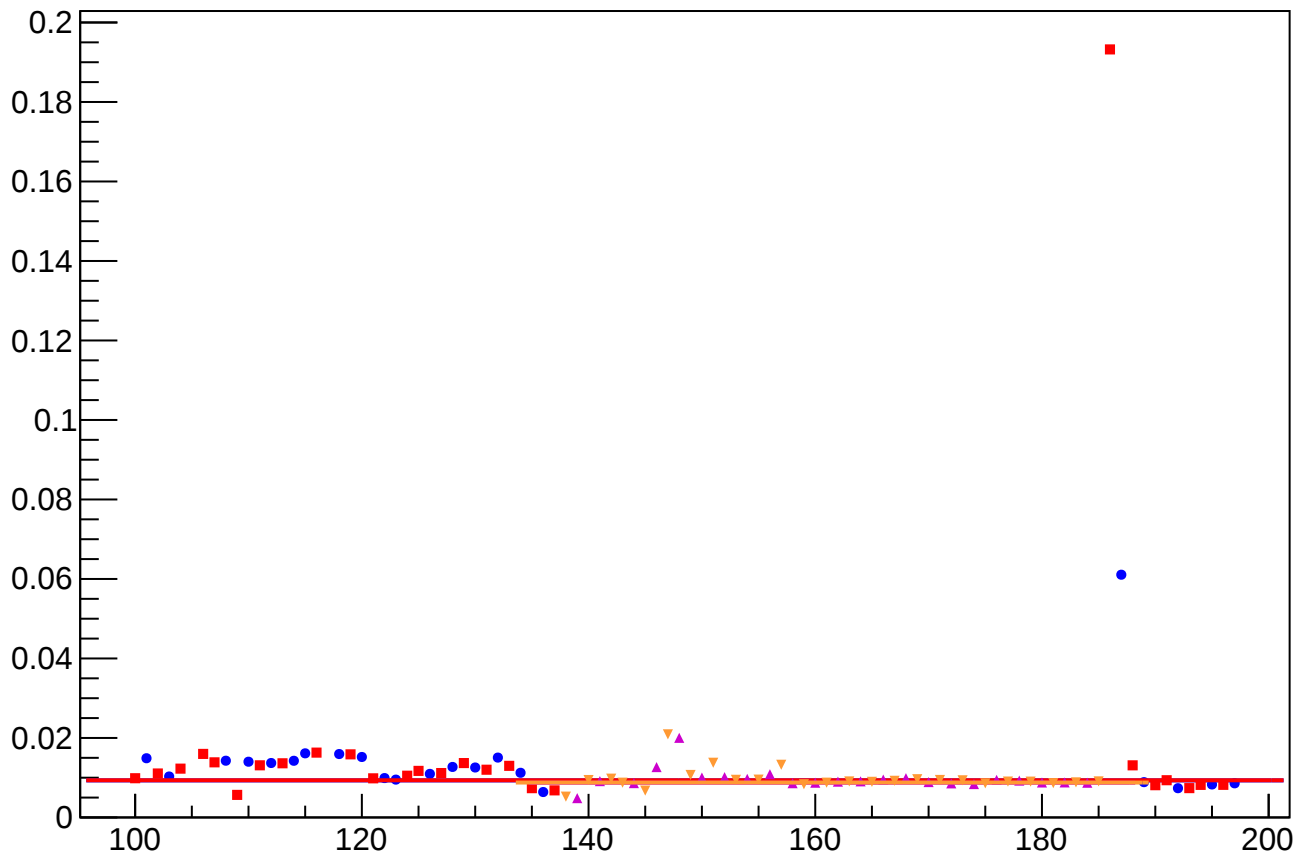
Out: 0.924+/-0.000 χ^2/NDF : 103504028474.6/50

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.928+/-0.000 χ^2/NDF : 185441764413.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1665955.4/21

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

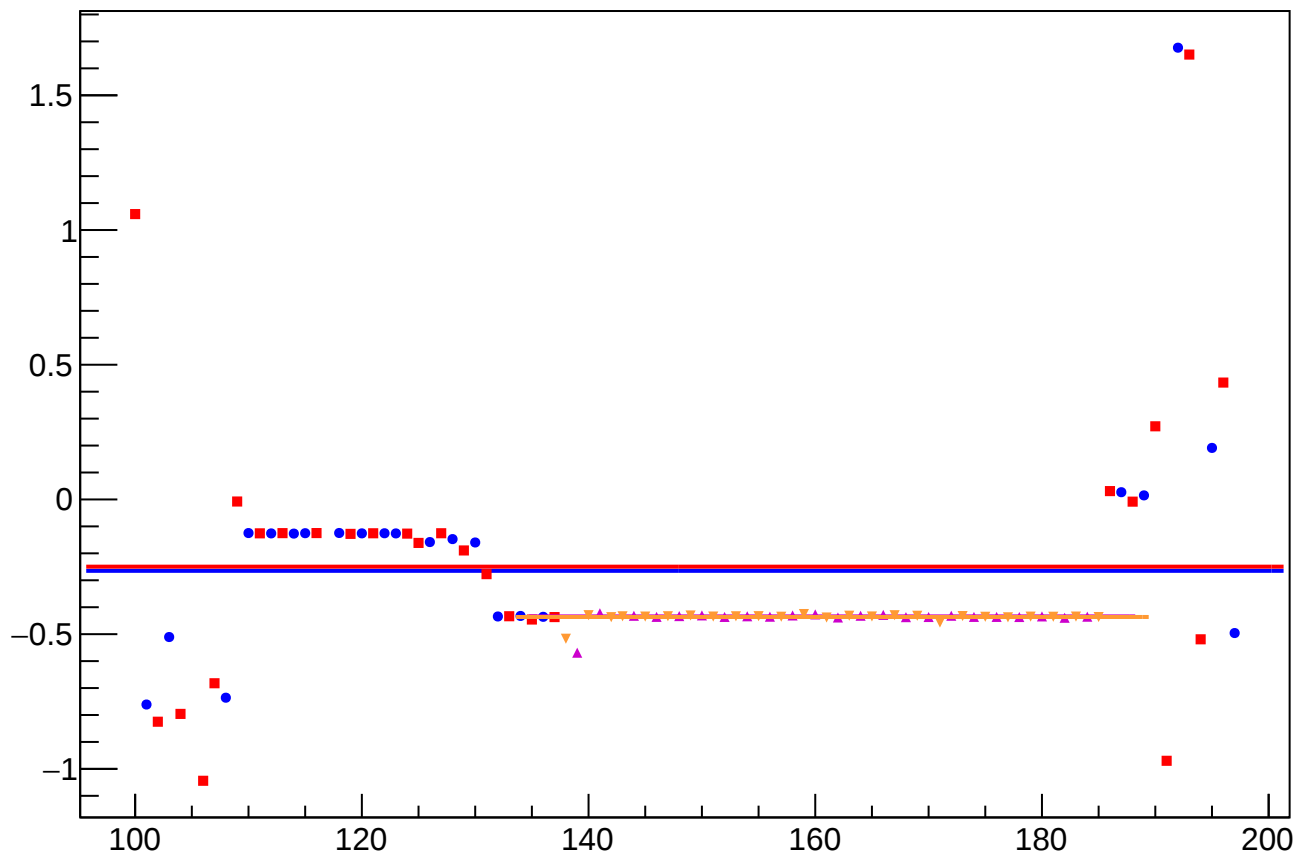
Right: 0.009+/-0.000 χ^2/NDF : 3821053.3/47

In: 0.009+/-0.000 χ^2/NDF : 3379867.0/44

Out: 0.009+/-0.000 χ^2/NDF : 3899468.0/50

All: 0.009+/-0.000 χ^2/NDF : 7280158.8/95

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.265 ± 0.000 $\chi^2/\text{NDF}: 1890691099.8/21$

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 $\chi^2/\text{NDF}: 49321098.5/47$

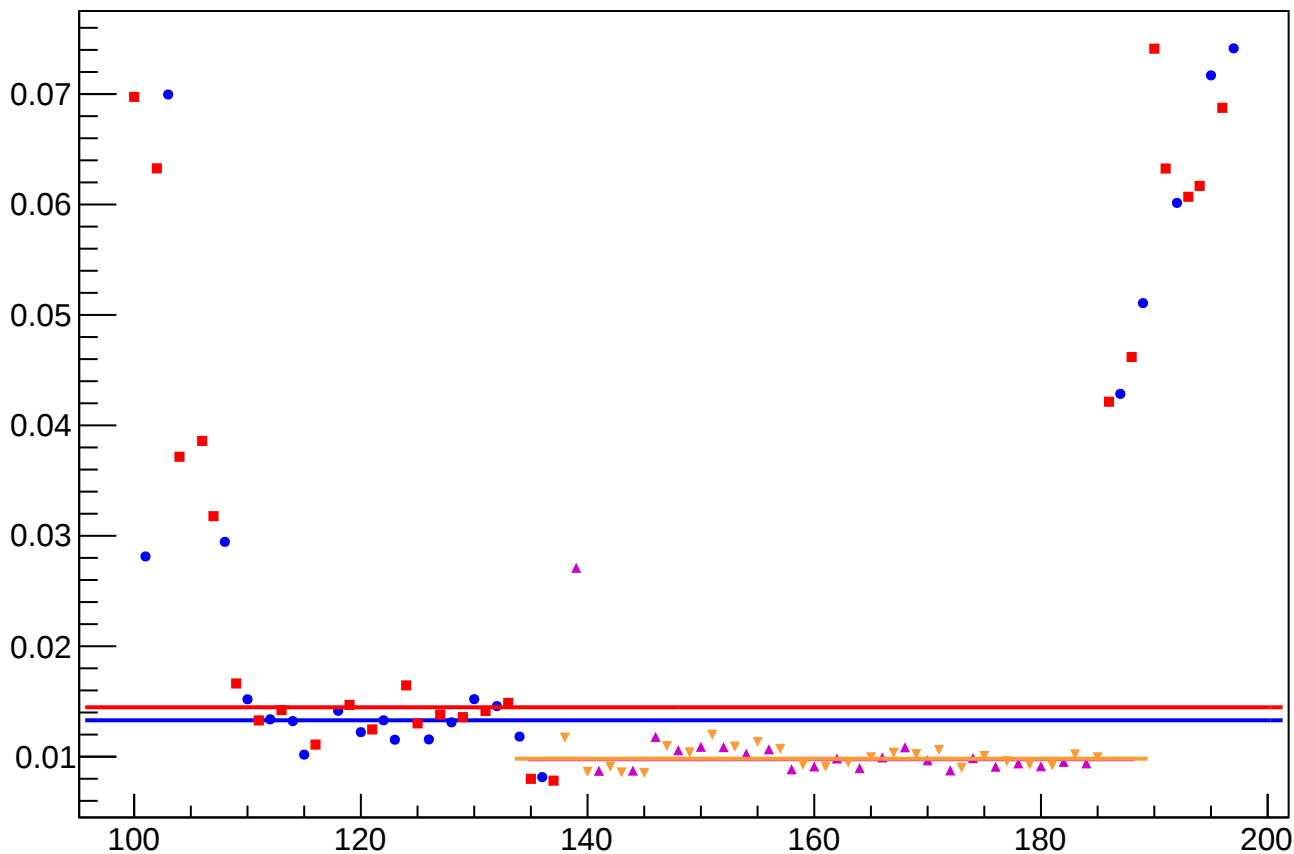
Right: -0.257 ± 0.000 $\chi^2/\text{NDF}: 3727570260.6/47$

In: -0.405 ± 0.000 $\chi^2/\text{NDF}: 2672786901.9/44$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 2770558100.2/50$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 5443604757.2/9$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 5458411.4/21

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 6657151.4/25

Left In: 0.010 $\pm$ 0.000 χ^2/NDF : 786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

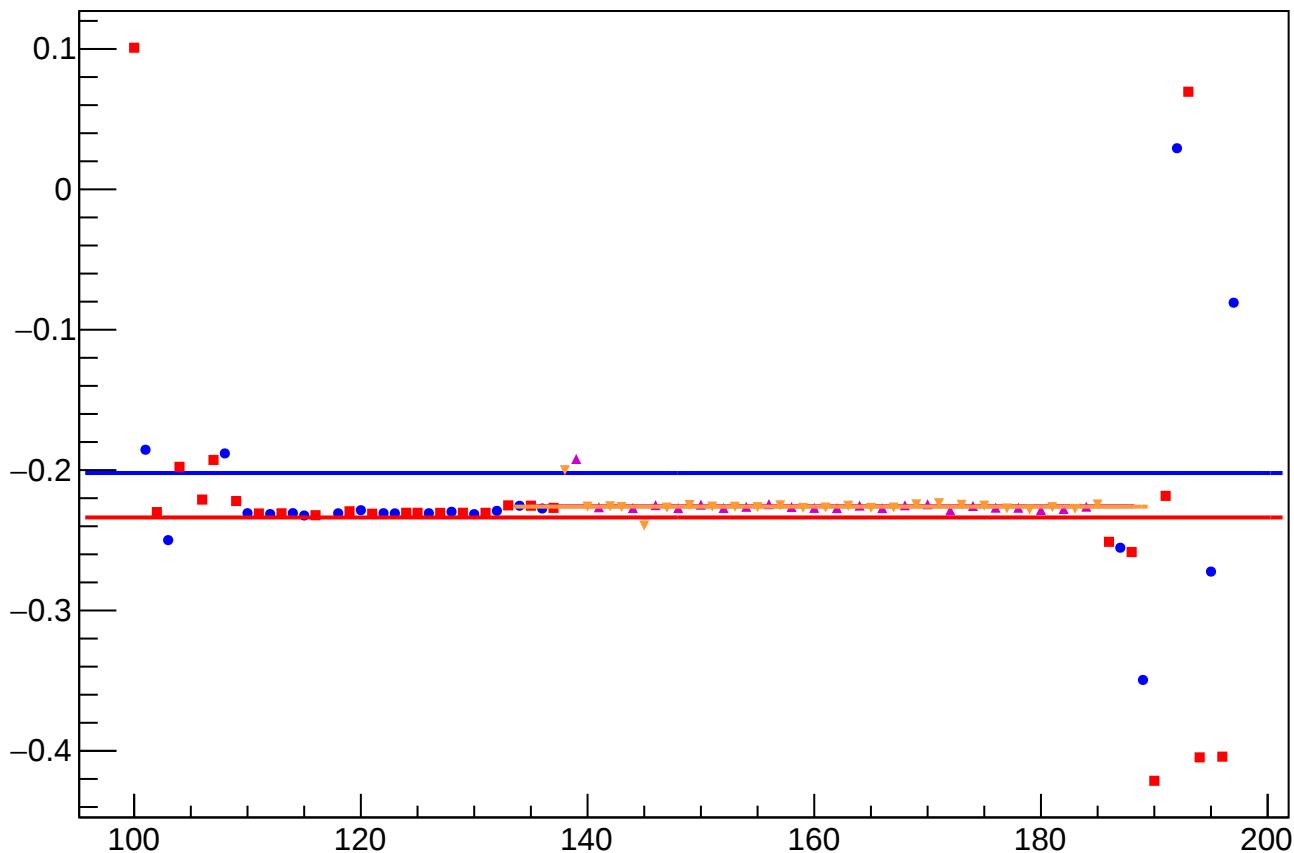
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 12159535.3/47

In: 0.010 $\pm$ 0.000 χ^2/NDF : 6906345.0/44

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 8059038.4/50

All: 0.010 $\pm$ 0.000 χ^2/NDF : 14971320.5/95

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.202 ± 0.000 $\chi^2/\text{NDF}: 2259141895.0/21$

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 $\chi^2/\text{NDF}: 34951372.2/47$

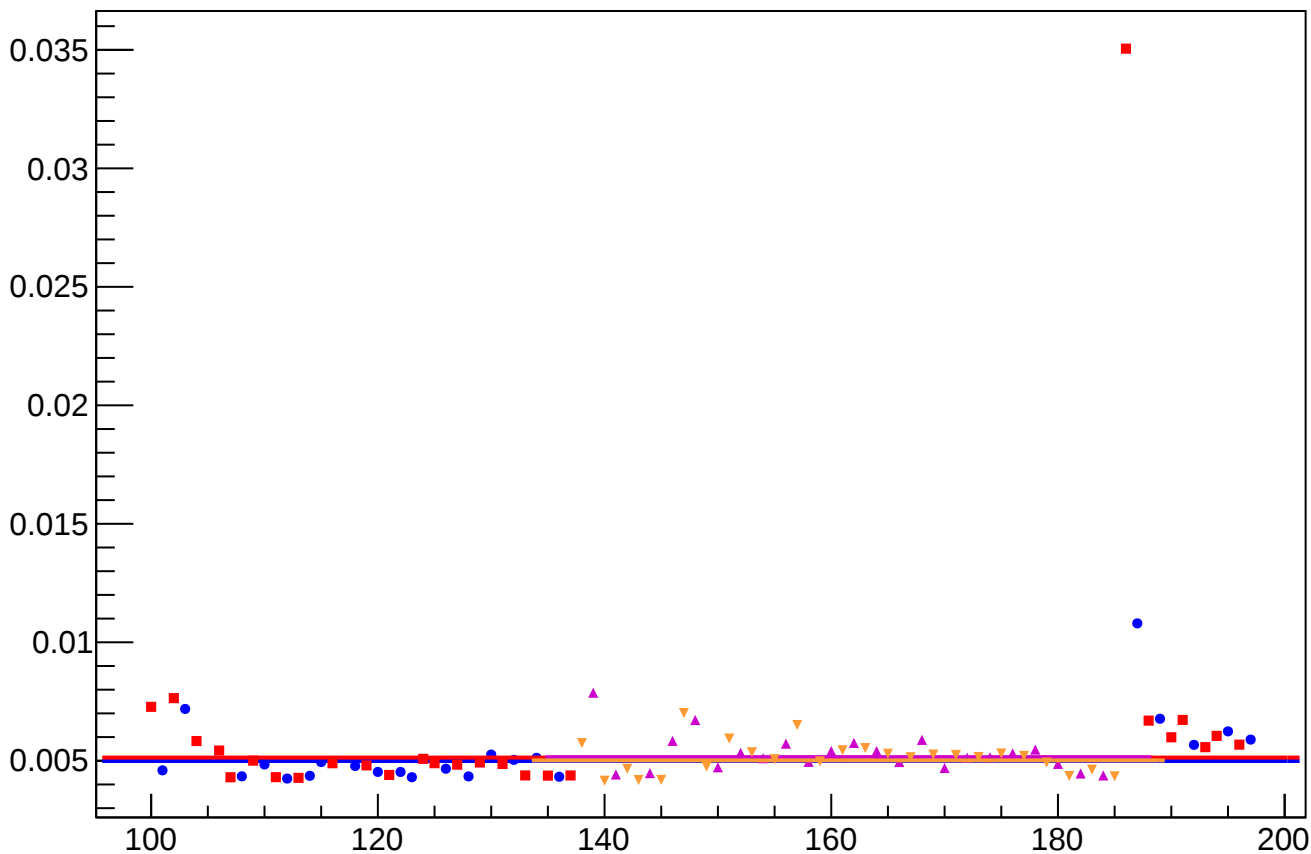
Right: -0.219 ± 0.000 $\chi^2/\text{NDF}: 6323954945.8/47$

In: -0.217 ± 0.000 $\chi^2/\text{NDF}: 2397931164.8/44$

Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 3918565481.3/50$

All: -0.223 ± 0.000 $\chi^2/\text{NDF}: 6384320929.5/9$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 490177.8/21

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

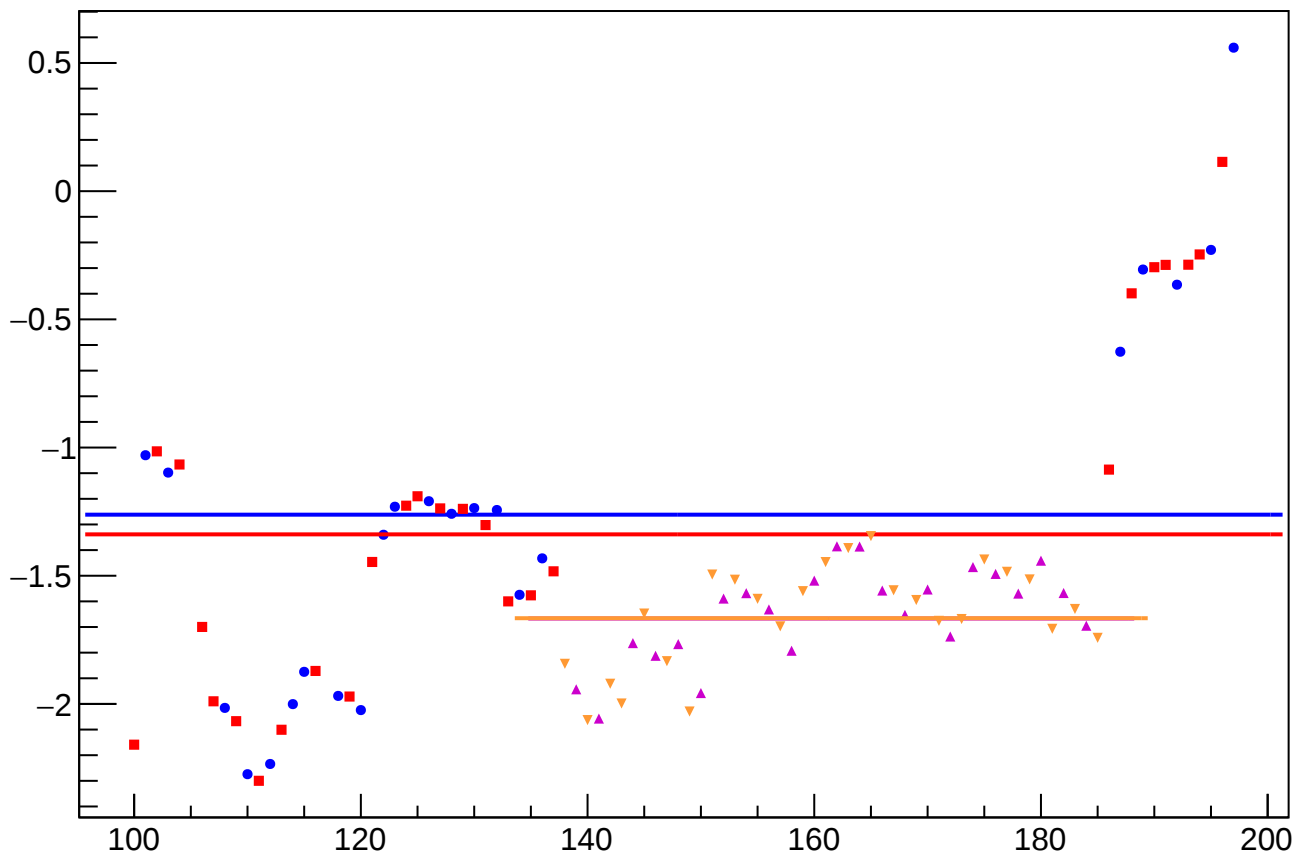
Right: 0.005+/-0.000 χ^2/NDF : 1521380.2/47

In: 0.005+/-0.000 χ^2/NDF : 1005515.3/44

Out: 0.005+/-0.000 χ^2/NDF : 1563137.7/50

All: 0.005+/-0.000 χ^2/NDF : 2569822.7/95

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.262 $\pm$ 0.000 χ^2 /NDF: 70653127885.2/21

Left Out: -1.666 $\pm$ 0.000 χ^2 /NDF: 18368038680.8/24

Right Out: -1.339 $\pm$ 0.000 χ^2 /NDF: 89304131721.2/25

Left In: -1.667 $\pm$ 0.000 χ^2 /NDF: 14615453869.3/22

Left: -1.666 $\pm$ 0.000 χ^2 /NDF: 32983827631.4/47

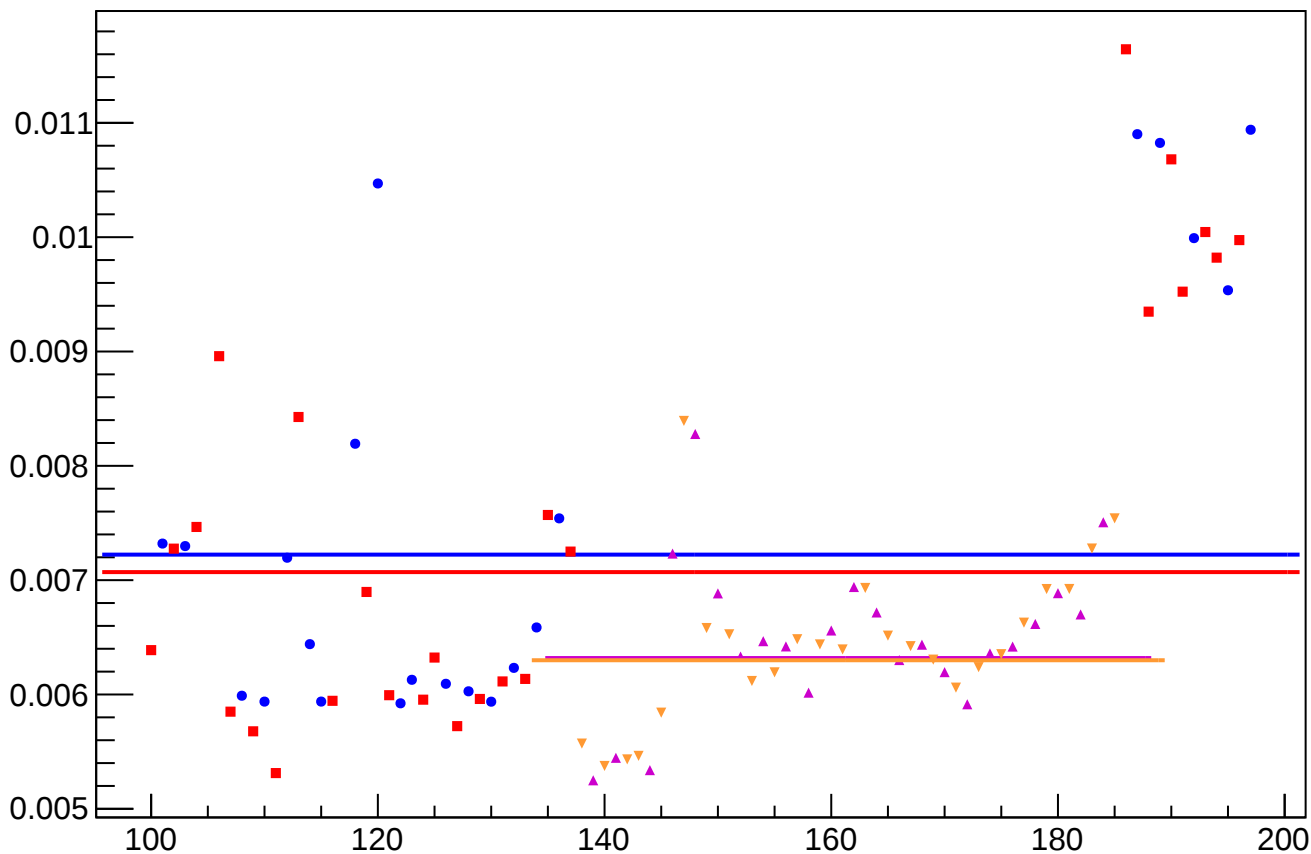
Right: -1.304 $\pm$ 0.000 χ^2 /NDF: 160499475534.0/47

In: -1.551 $\pm$ 0.000 χ^2 /NDF: 104767997411.9/44

Out: -1.562 $\pm$ 0.000 χ^2 /NDF: 122632969729.8/50

All: -1.557 $\pm$ 0.000 χ^2 /NDF: 227441506548.4

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 823580.4/21$

Left Out: 0.006 ± 0.000 $\chi^2/\text{NDF}: 312811.2/24$

Right Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1102915.4/25$

Left In: 0.006 ± 0.000 $\chi^2/\text{NDF}: 334332.4/22$

Left: 0.006 ± 0.000 $\chi^2/\text{NDF}: 647302.7/47$

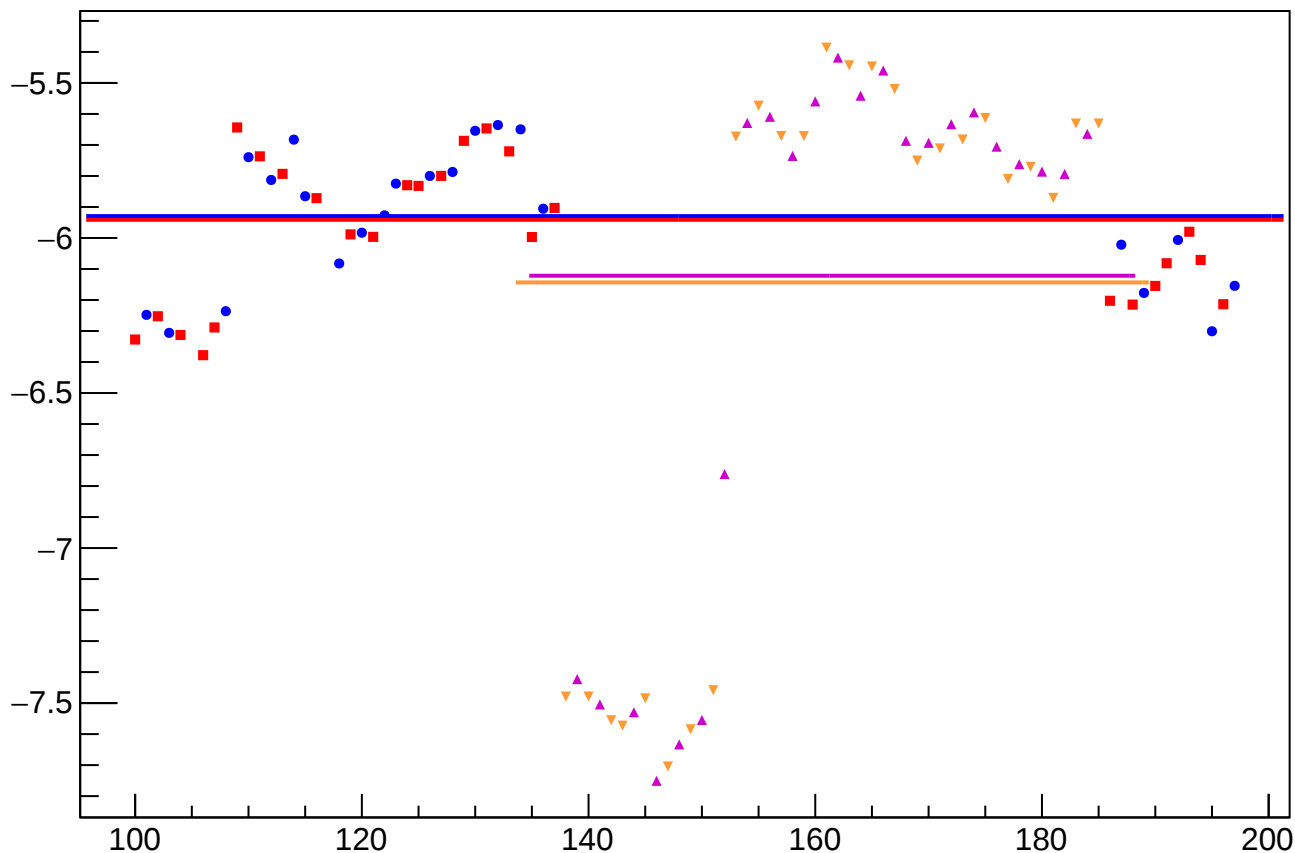
Right: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1930791.2/47$

In: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1352372.6/44$

Out: 0.007 ± 0.000 $\chi^2/\text{NDF}: 1582040.0/50$

All: 0.007 ± 0.000 $\chi^2/\text{NDF}: 2935157.6/95$

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.929+/-0.000 χ^2/NDF : 12278669346.8/21

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

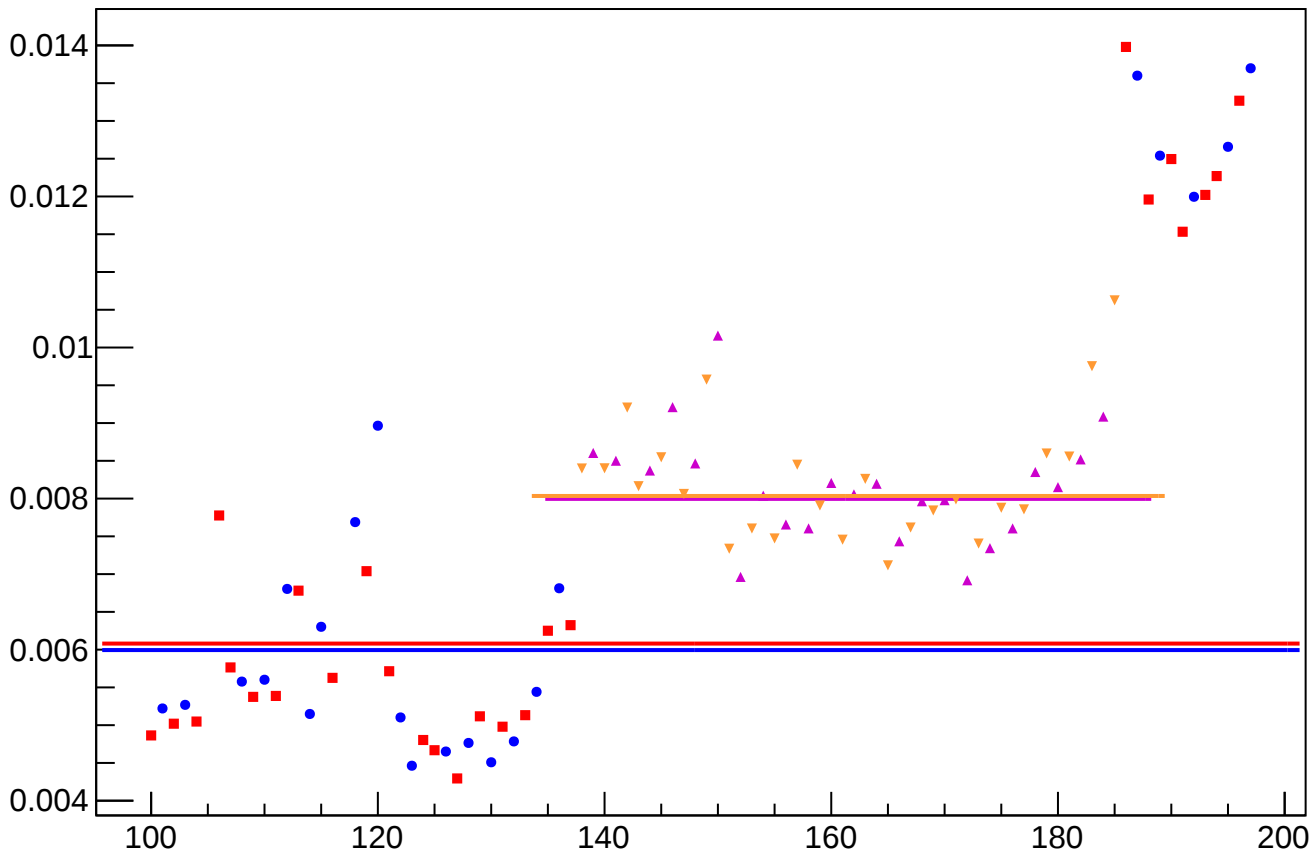
Right: -5.936+/-0.000 χ^2/NDF : 26338608366.1/47

In: -6.032+/-0.000 χ^2/NDF : 176503021701.6/44

Out: -6.044+/-0.000 χ^2/NDF : 204928643419.6/50

All: -6.038+/-0.000 χ^2/NDF : 381469104034.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2146469.0/21

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

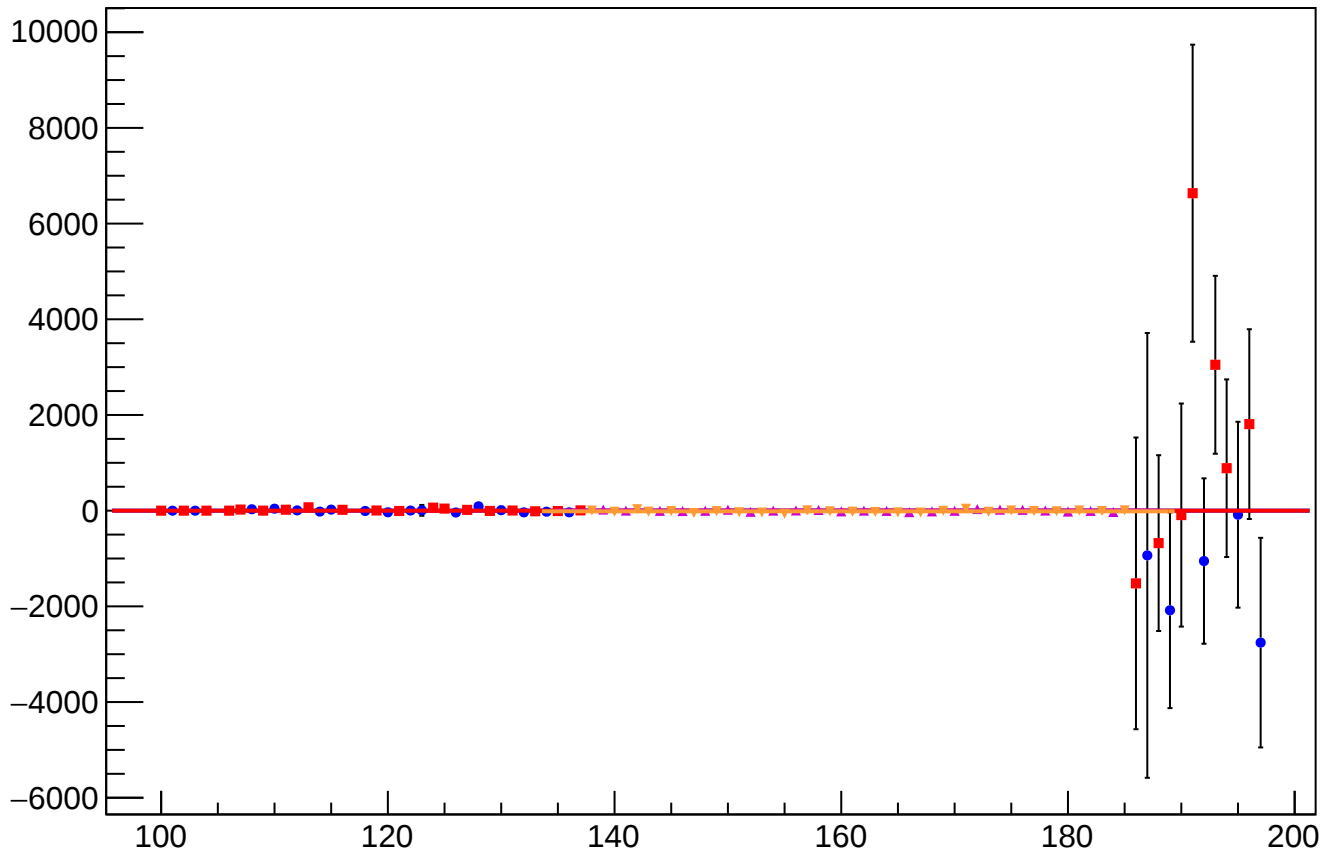
Right: 0.006+/-0.000 χ^2/NDF : 4756589.4/47

In: 0.007+/-0.000 χ^2/NDF :3301602.5/44

Out: 0.007+/-0.000 χ^2/NDF :3781984.7/50

All: 0.007+/-0.000 χ^2/NDF : 7083714.2/95

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 19.3/21$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 23.6/25$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

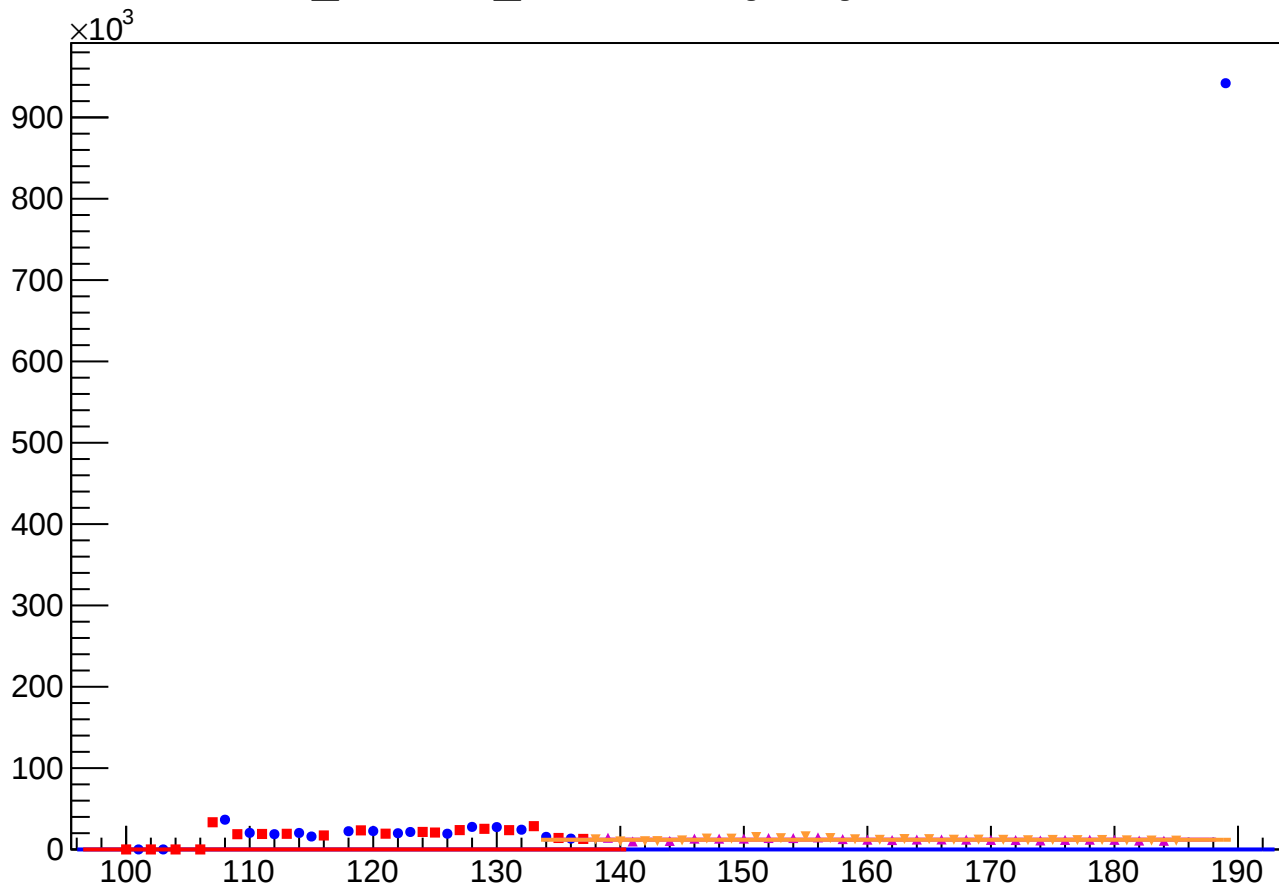
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 43.4/47$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 48.0/44$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 105.3/50$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 153.9/95$

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

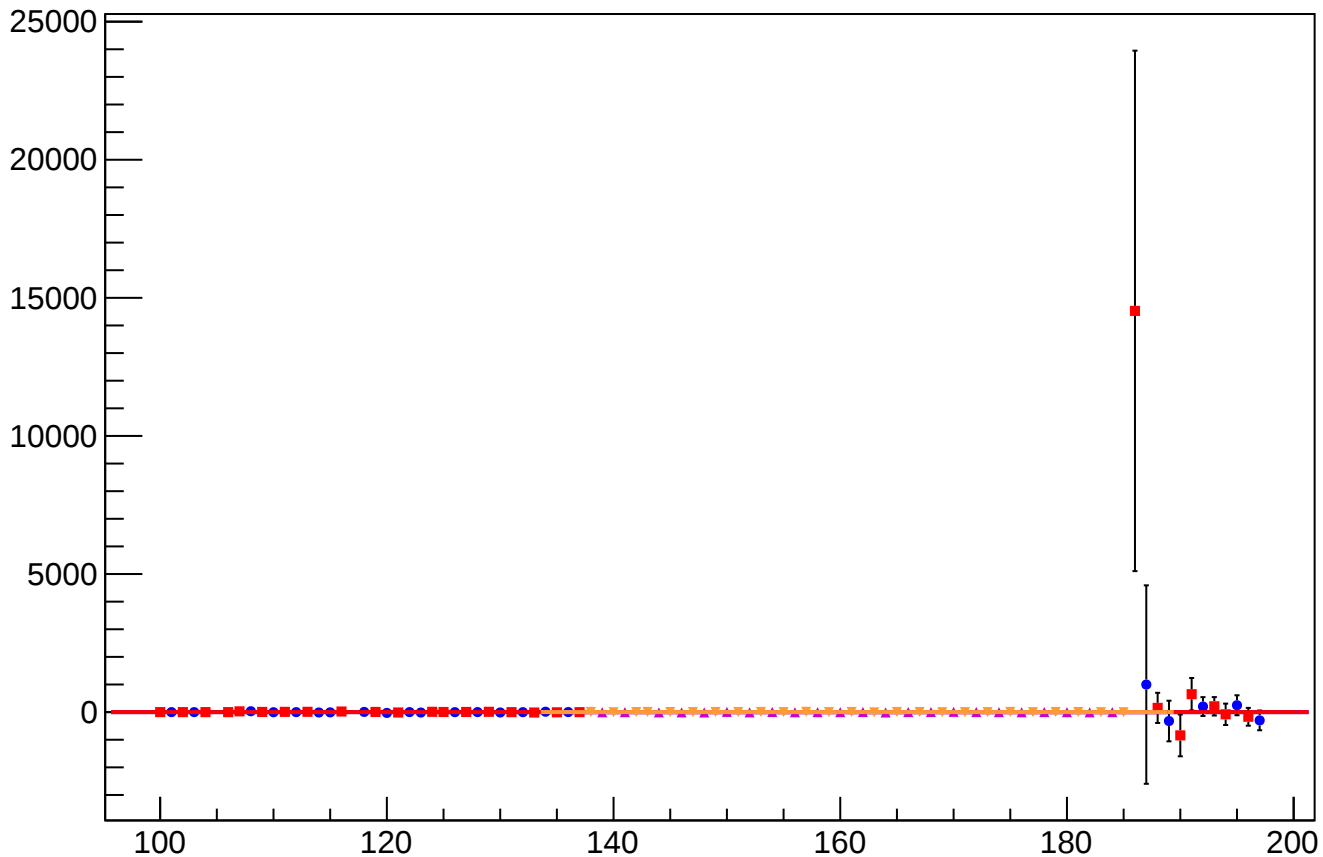
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

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 : 16.4/21

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

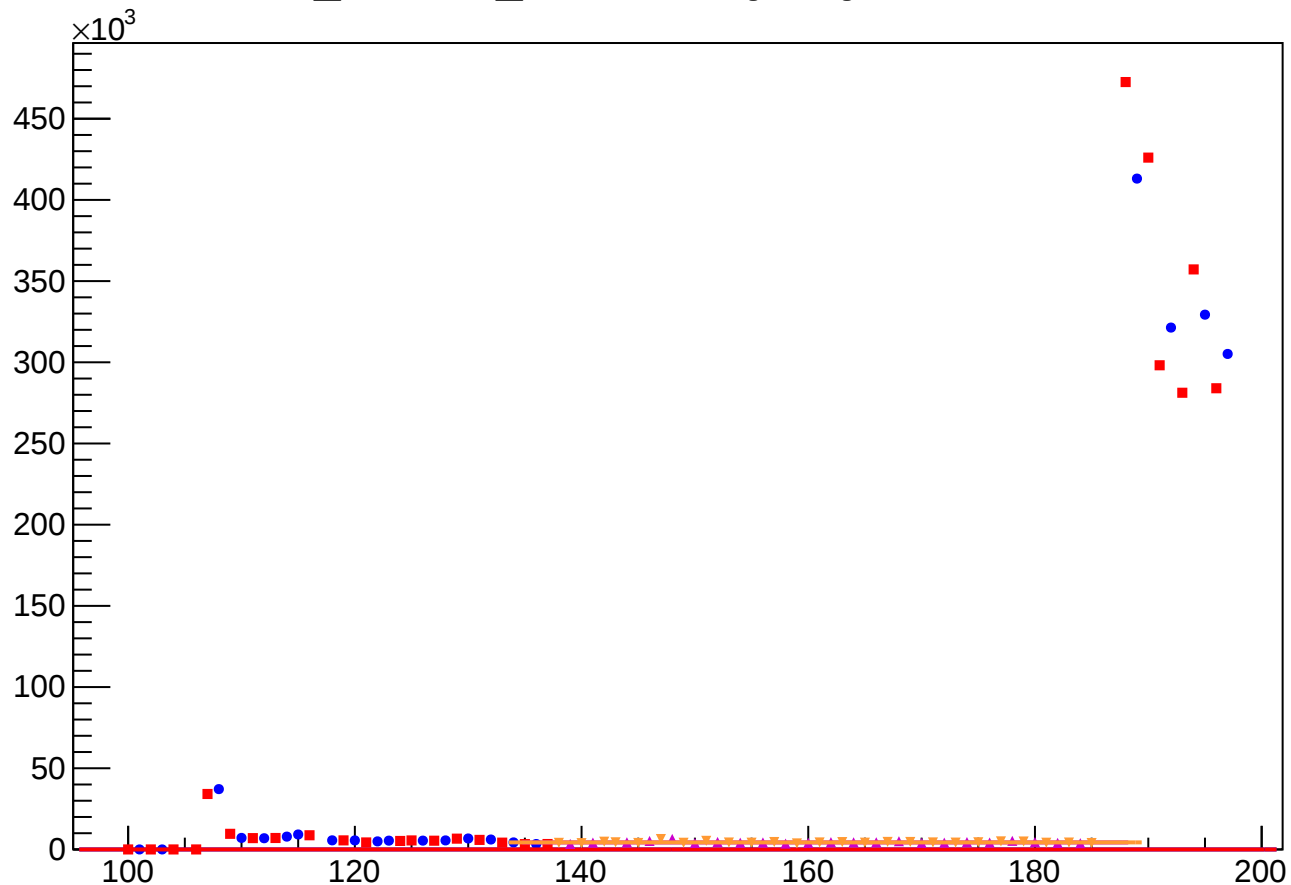
Right: -0.007 ± 0.006 χ^2/NDF : 42.1/47

In: 0.001 ± 0.009 χ^2/NDF : 52.7/44

Out: -0.014 ± 0.009 χ^2/NDF : 44.9/50

All: -0.007 ± 0.006 χ^2/NDF : 99.0/95

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938+/-0.007 χ^2/NDF : 16427657.8/20

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

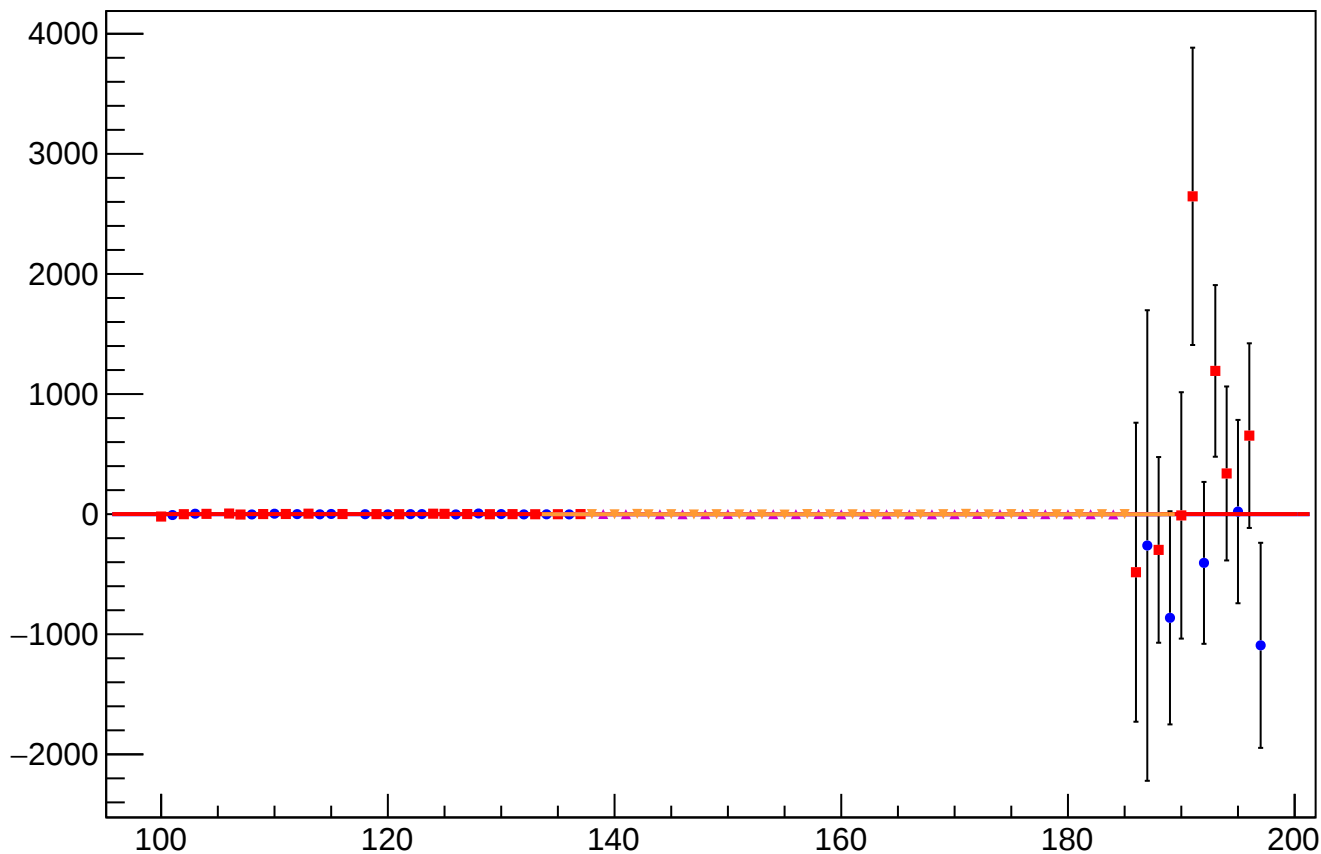
Right: 9.894+/-0.004 χ^2/NDF : 34828465.1/45

In: 10.273+/-0.007 χ^2/NDF :51023679.1/43

Out: 10.166+/-0.006 χ^2/NDF :54930439.1/49

All: 10.216+/-0.004 χ^2/NDF : 105954262.0/93

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 ± 0.485 χ^2/NDF : 25.5/21

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 ± 0.502 χ^2/NDF : 20.4/25

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

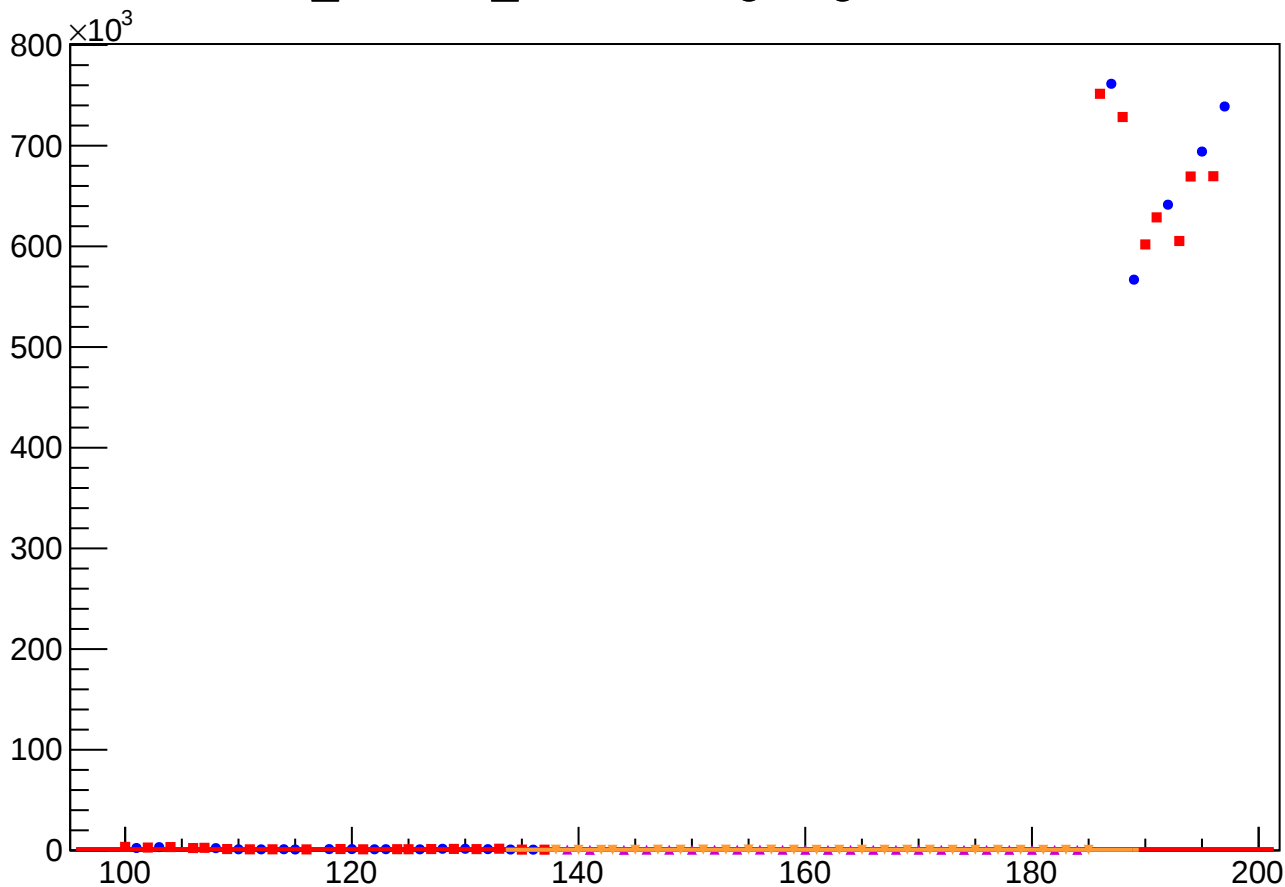
Right: 0.004 ± 0.349 χ^2/NDF : 50.2/47

In: -0.059 ± 0.161 χ^2/NDF : 56.7/44

Out: -0.626 ± 0.156 χ^2/NDF : 87.2/50

All: -0.350 ± 0.112 χ^2/NDF : 150.2/95

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1165.275+/-0.343 χ^2/NDF : 7638308.2/21

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1250.844+/-0.355 χ^2/NDF : 9934265.2/25

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

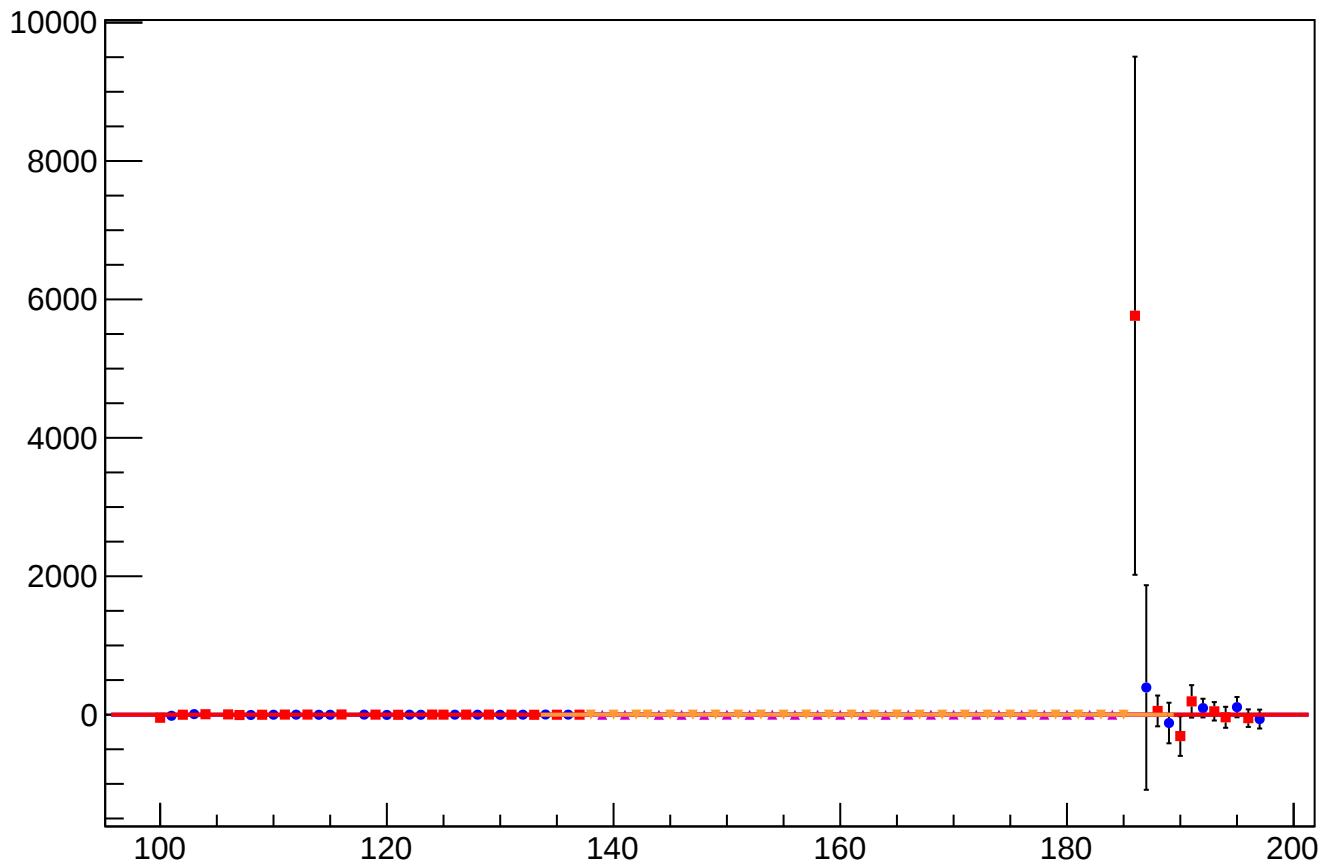
Right: 1206.579+/-0.247 χ^2/NDF : 17602622.5/47

In: 757.161+/-0.114 χ^2/NDF : 9566783.6/44

Out: 754.000+/-0.110 χ^2/NDF : 12494893.7/50

All: 755.536+/-0.079 χ^2/NDF : 22062075.8/95

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 ± 0.271 χ^2/NDF : 22.4/21

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

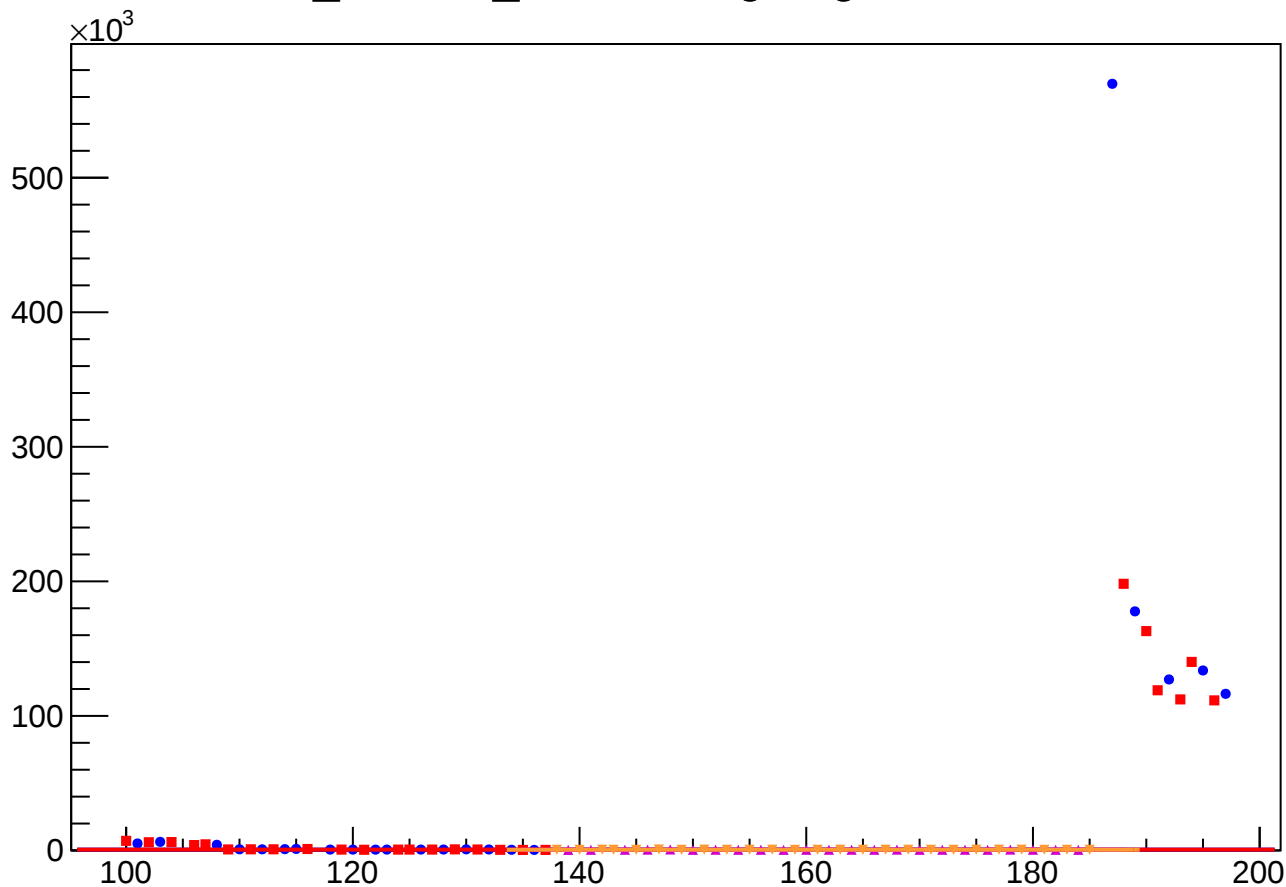
Right: -0.154 ± 0.189 χ^2/NDF : 48.0/47

In: -0.105 ± 0.114 χ^2/NDF : 57.4/44

Out: 0.152 ± 0.111 χ^2/NDF : 45.6/50

All: 0.026 ± 0.080 χ^2/NDF : 105.7/95

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.176+/-0.191 χ^2/NDF : 9008177.5/21

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 601.635+/-0.187 χ^2/NDF : 10902382.3/24

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

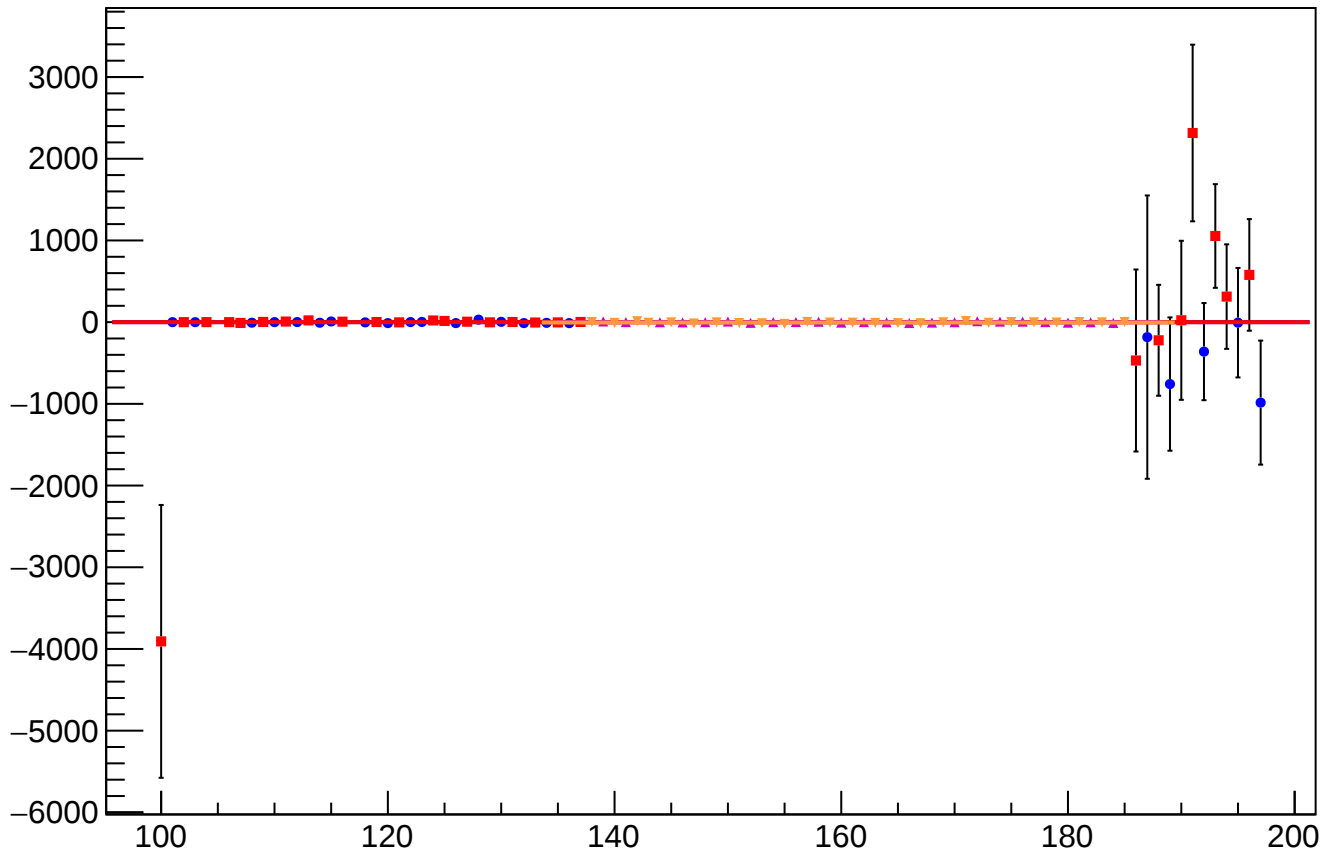
Right: 605.814+/-0.134 χ^2/NDF : 19911577.6/46

In: 535.890+/-0.081 χ^2/NDF : 9636122.1/44

Out: 536.374+/-0.079 χ^2/NDF : 11381363.5/49

All: 536.138+/-0.056 χ^2/NDF : 21017504.1/94

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 18.6/21

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

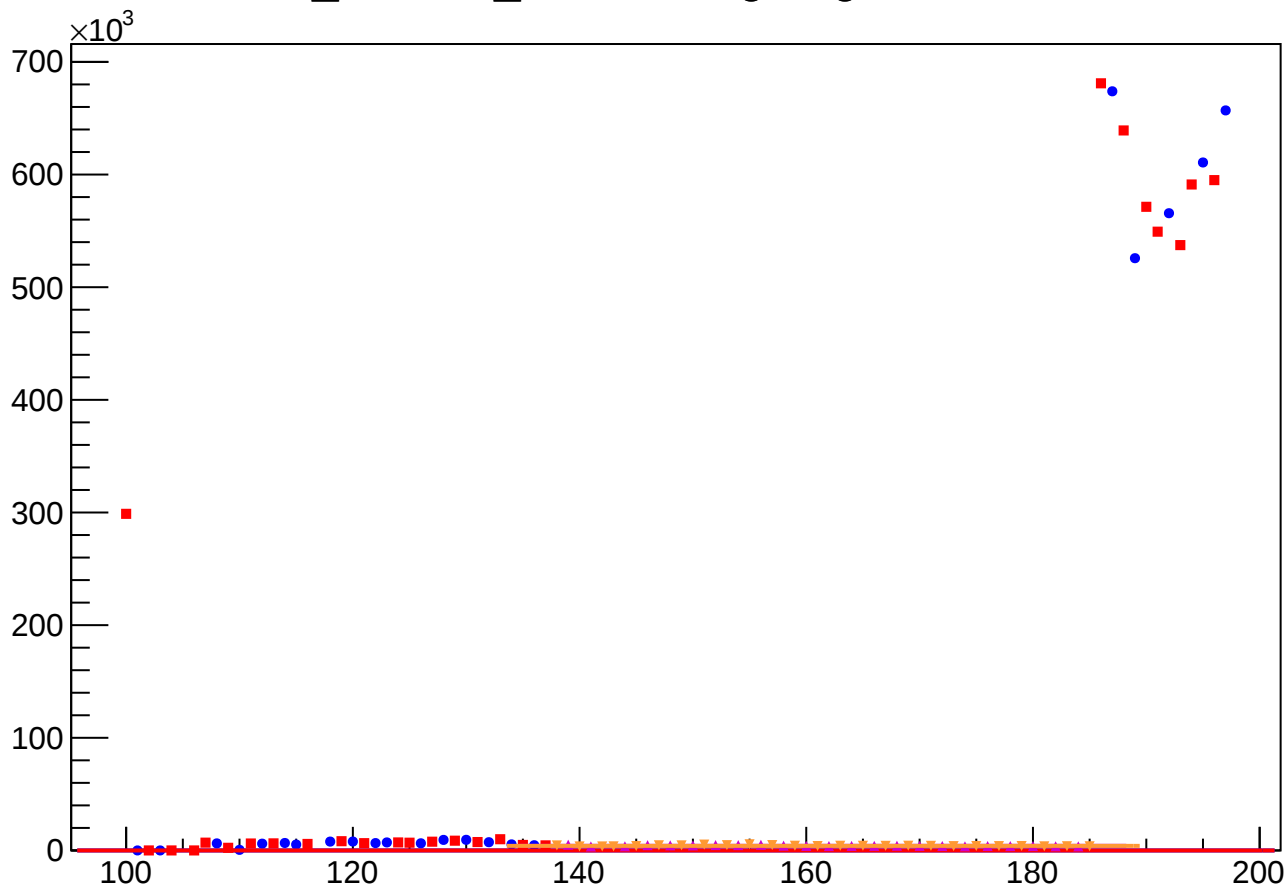
Right: 0.004+/-0.014 χ^2/NDF : 46.8/47

In: -0.022+/-0.021 χ^2/NDF : 47.8/44

Out: 0.025+/-0.020 χ^2/NDF : 105.8/50

All: 0.003+/-0.014 χ^2/NDF : 156.2/95

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.338 $\pm$ 0.015 χ^2 /NDF: 16418112.9/21

Left Out: 4074.257 $\pm$ 0.676 χ^2 /NDF:416916.0/24

Right Out: 17.270 $\pm$ 0.014 χ^2 /NDF: 19124082.2/25

Left In: 4113.744 $\pm$ 0.700 χ^2 /NDF:354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2 /NDF: 773528.6/47

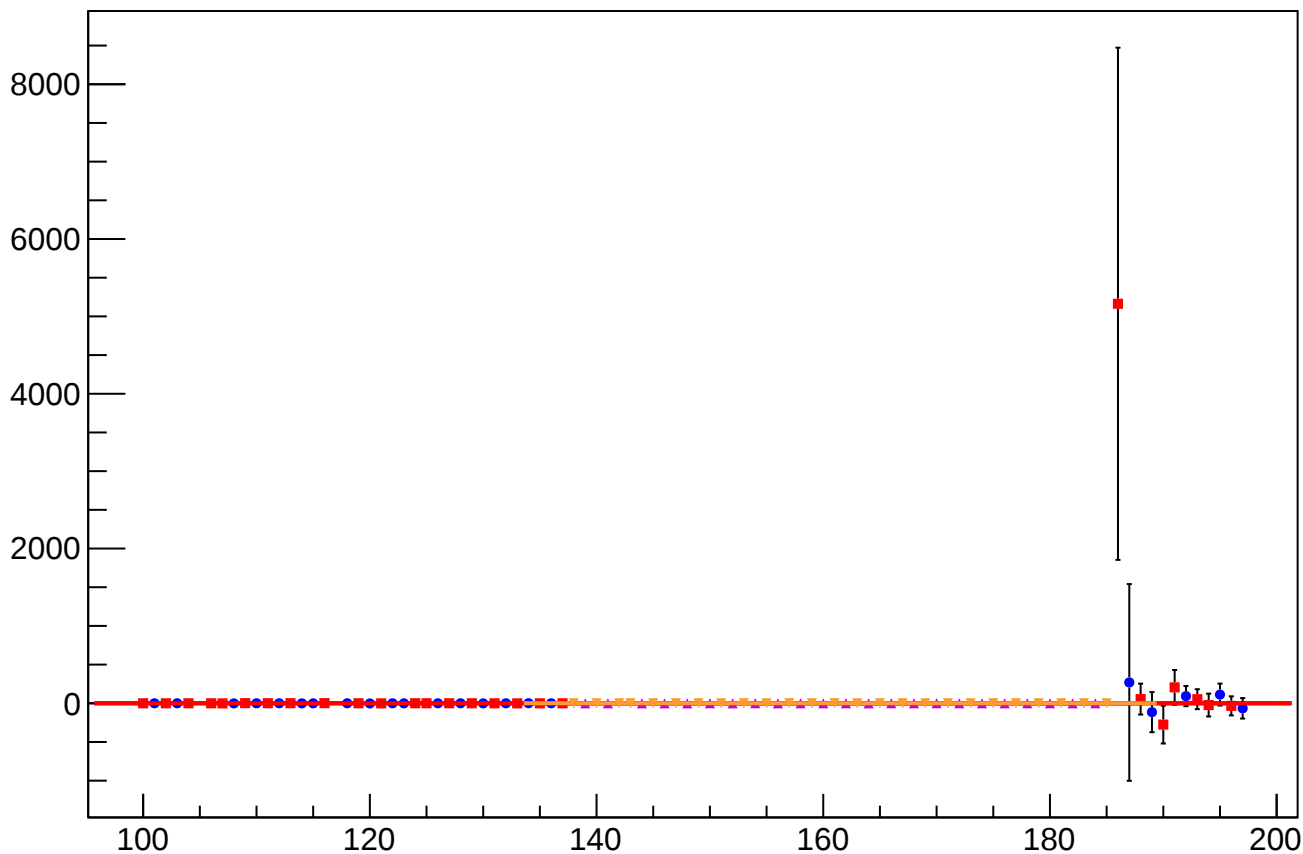
Right: 17.302 $\pm$ 0.010 χ^2 /NDF: 35542206.3/47

In: 19.143 $\pm$ 0.015 χ^2 /NDF:50987324.4/44

Out: 19.007 $\pm$ 0.014 χ^2 /NDF:55577028.8/50

All: 19.072 $\pm$ 0.010 χ^2 /NDF: 106564398.6/95

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 16.9/21

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.0/25

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

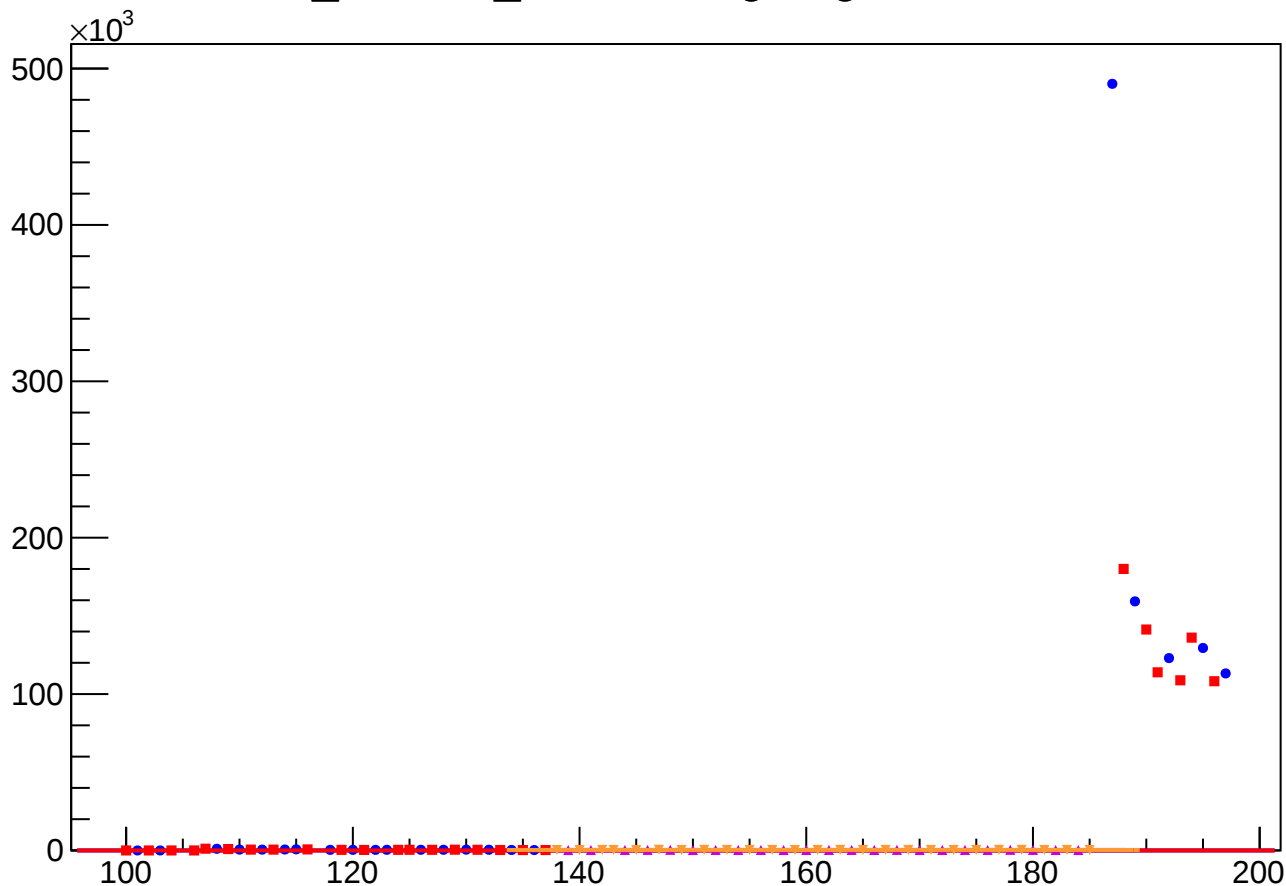
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 40.0/47

In: 0.000 $\pm$ 0.002 χ^2 /NDF:52.7/44

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:43.7/50

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 96.5/95

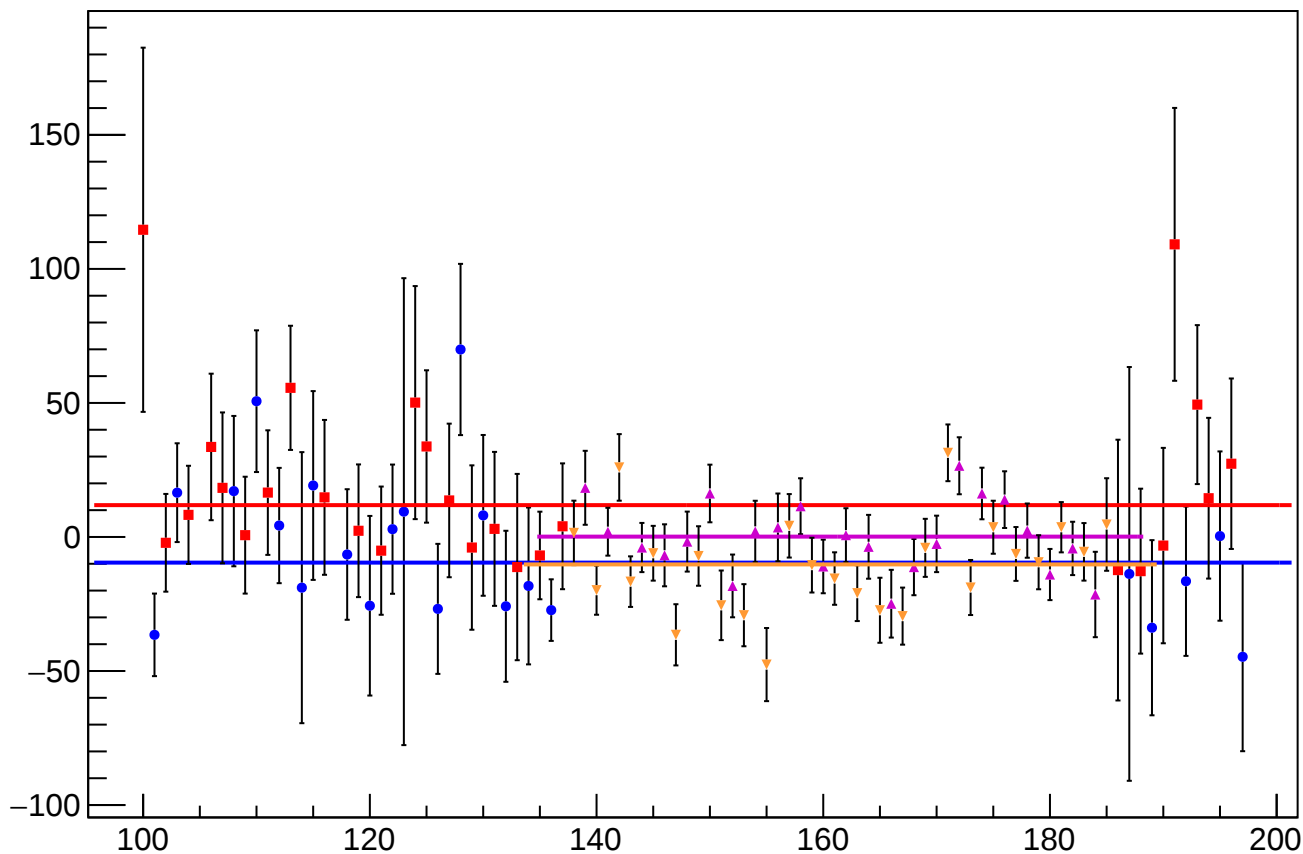
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 16814894.7/21
 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: 34984981.3/46
 In: 1.914 $\pm$ 0.001 χ^2 /NDF:51218341.0/44
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:54477689.0/49
 All: 1.926 $\pm$ 0.001 χ^2 /NDF: 105696168.0/94

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.567 ± 5.296 χ^2/NDF : 24.4/21

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 11.877 ± 5.219 χ^2/NDF : 18.3/25

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

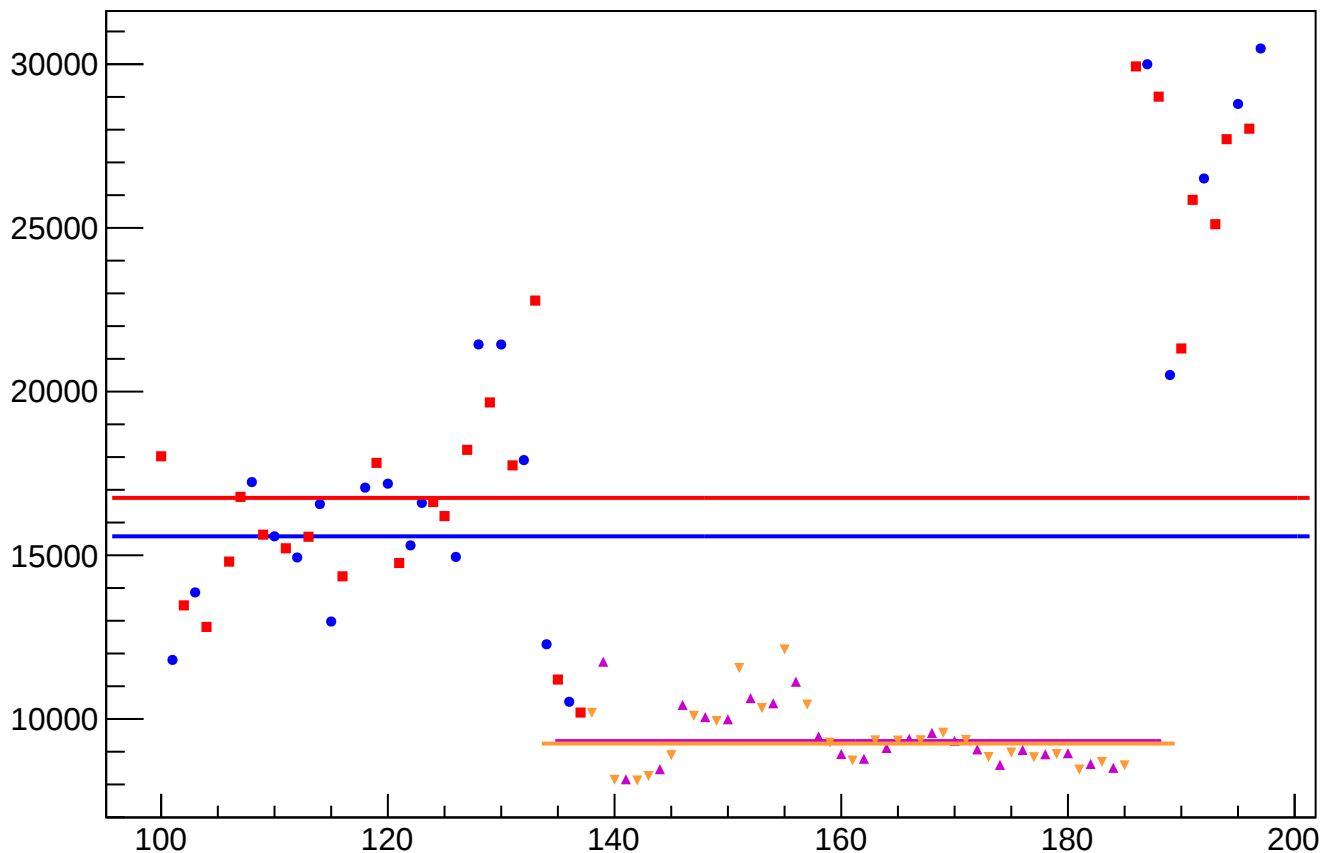
Right: 1.313 ± 3.717 χ^2/NDF : 51.0/47

In: -1.344 ± 2.065 χ^2/NDF : 57.1/44

Out: -6.984 ± 2.001 χ^2/NDF : 91.6/50

All: -4.252 ± 1.437 χ^2/NDF : 152.5/95

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15578.876+/-3.745 χ^2/NDF : 1872850.6/21

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

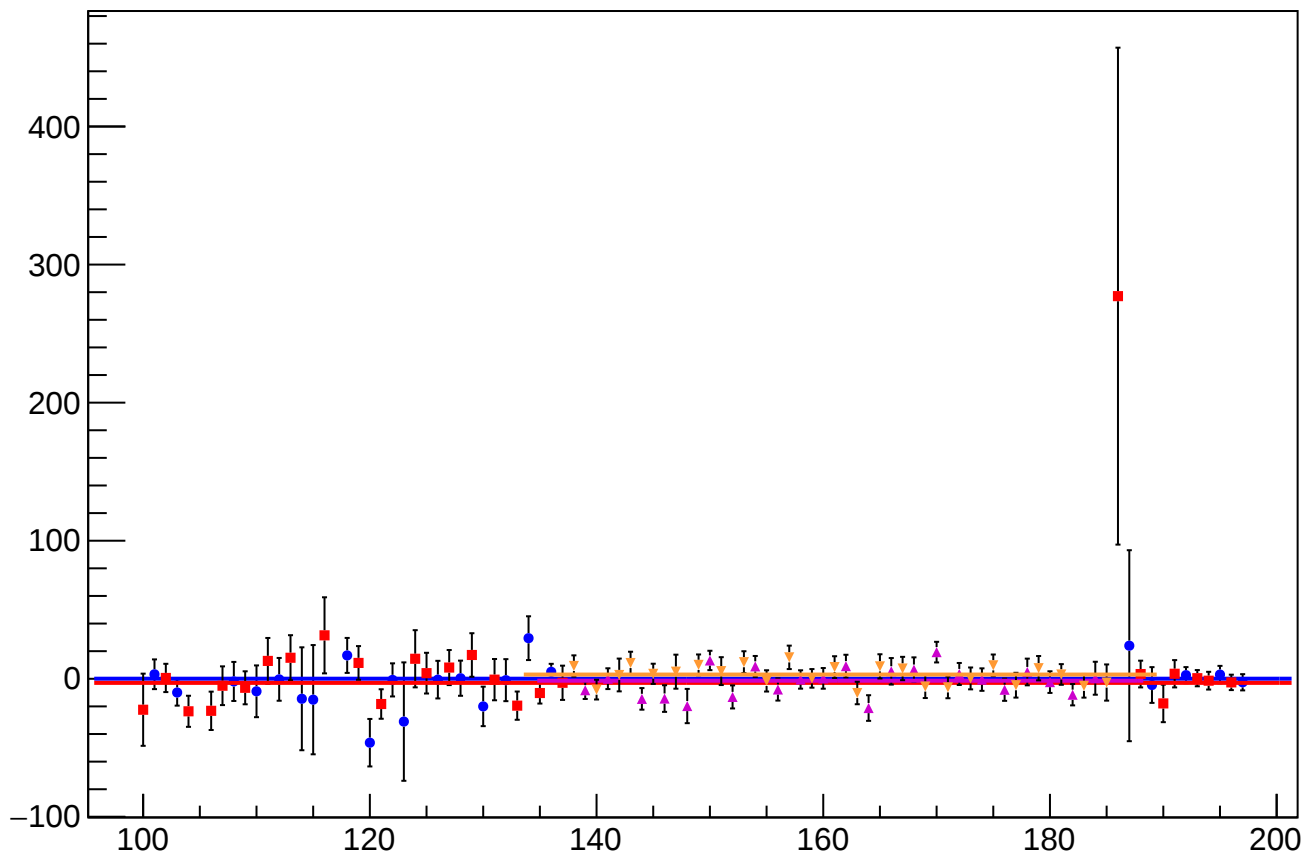
Right: 16174.723+/-2.628 χ^2/NDF : 3852502.2/47

In: 10275.714+/-1.460 χ^2/NDF : 4518708.0/44

Out: 10352.633+/-1.415 χ^2/NDF : 5788943.3/50

All: 10315.379+/-1.016 χ^2/NDF : 10309082.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.062 ± 2.266 χ^2/NDF : 18.3/21

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -2.967 ± 2.100 χ^2/NDF : 25.2/25

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

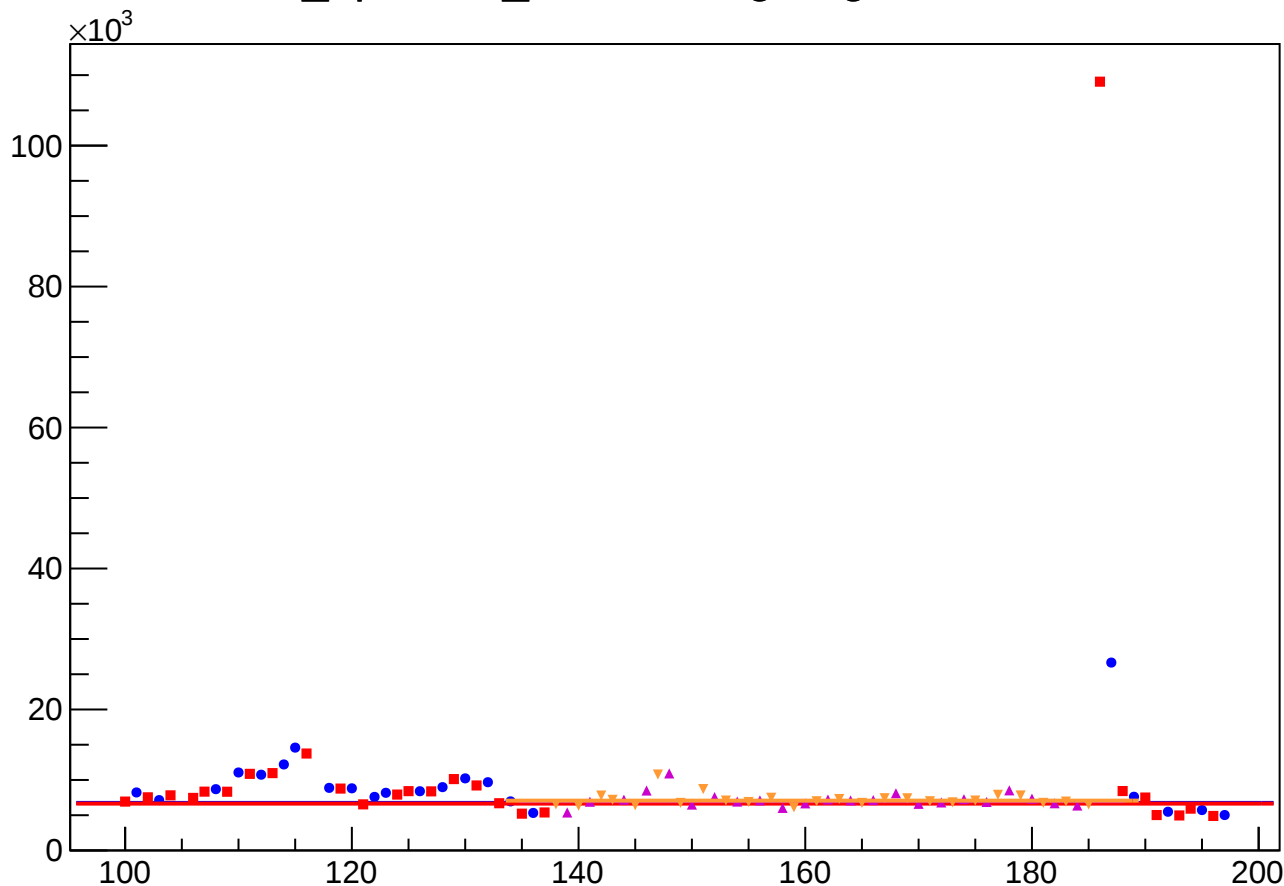
Right: -1.568 ± 1.540 χ^2/NDF : 44.5/47

In: -0.873 ± 1.356 χ^2/NDF : 54.0/44

Out: 0.744 ± 1.302 χ^2/NDF : 48.6/50

All: -0.031 ± 0.939 χ^2/NDF : 103.3/95

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6744.304 ± 1.603 $\chi^2/\text{NDF}: 1435172.9/21$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6647.671 ± 1.485 $\chi^2/\text{NDF}: 2060389.5/25$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

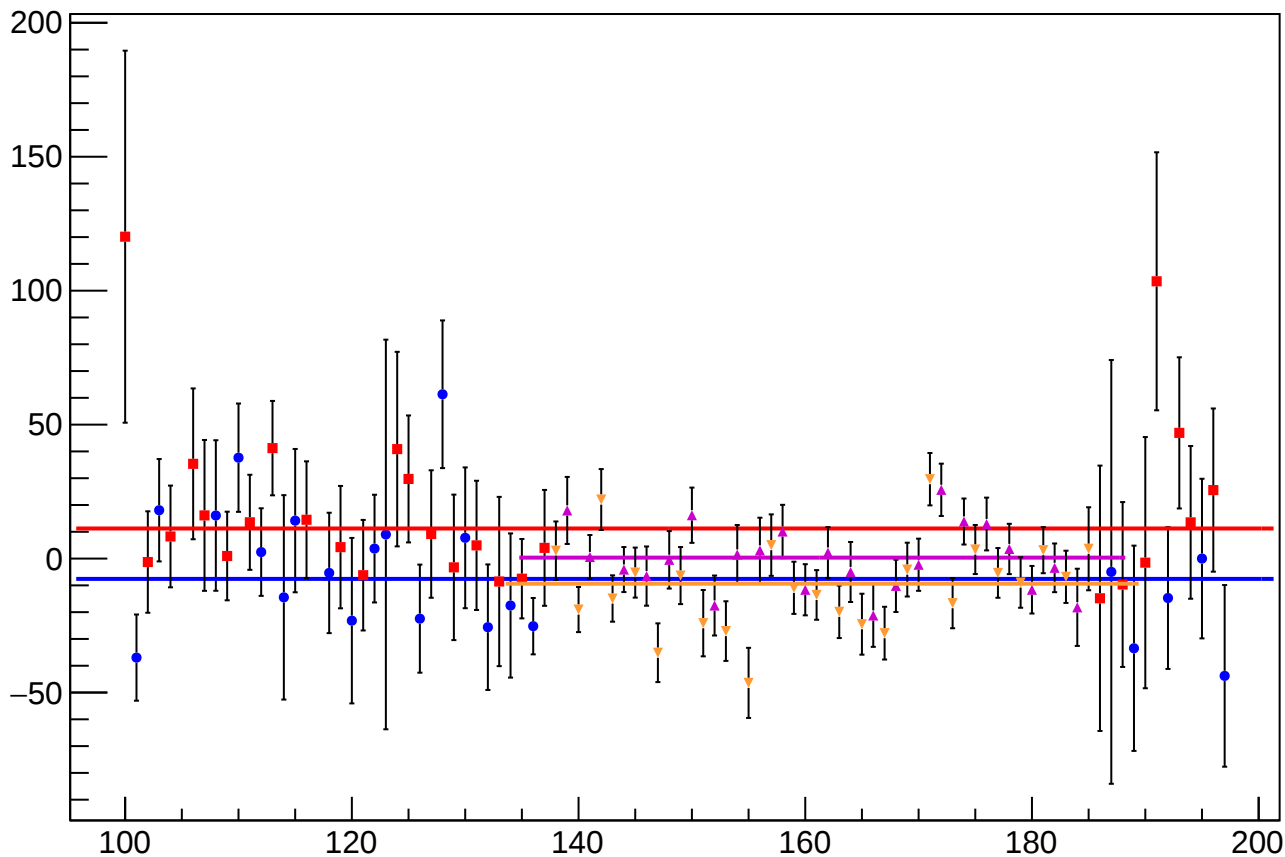
Right: 6692.299 ± 1.089 $\chi^2/\text{NDF}: 3497519.0/47$

In: 6908.752 ± 0.959 $\chi^2/\text{NDF}: 2001607.9/44$

Out: 6905.733 ± 0.920 $\chi^2/\text{NDF}: 2496915.7/50$

All: 6907.180 ± 0.664 $\chi^2/\text{NDF}: 4498528.8/95$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.584 $\pm$ 4.792 χ^2/NDF : 25.0/21

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

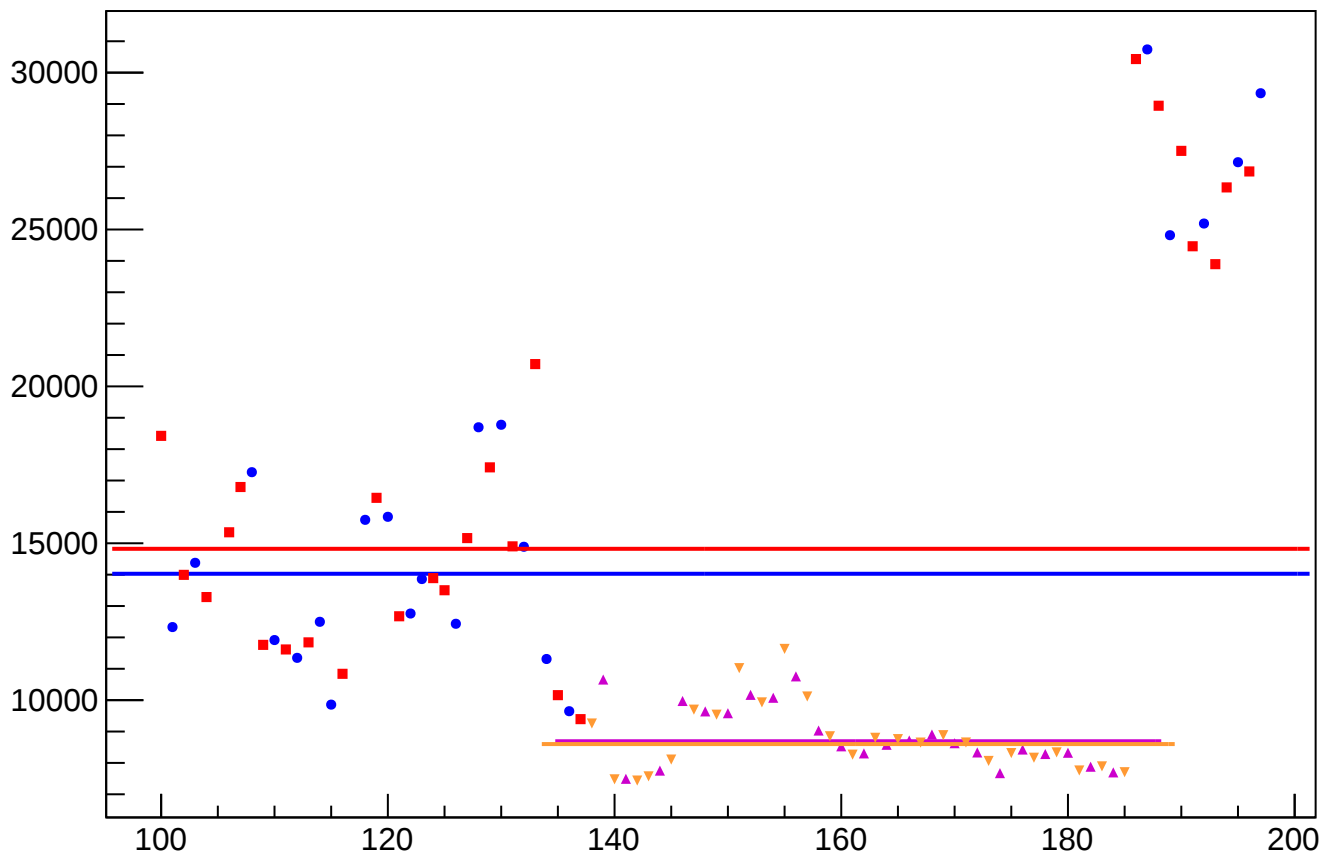
Right: 2.051 $\pm$ 3.347 χ^2/NDF : 50.7/47

In: -0.917 $\pm$ 1.917 χ^2/NDF : 56.9/44

Out: -6.143 $\pm$ 1.853 χ^2/NDF : 92.6/50

All: -3.620 $\pm$ 1.332 χ^2/NDF : 153.4/95

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14028.094 $\pm$ 3.388 χ^2/NDF : 2107610.9/21

Left Out: 8600.457 $\pm$ 1.427 χ^2/NDF :438229.4/24

Right Out: 14823.558 $\pm$ 3.307 χ^2/NDF : 2434269.5/25

Left In: 8690.209 $\pm$ 1.479 χ^2/NDF :370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2/NDF : 810970.4/47

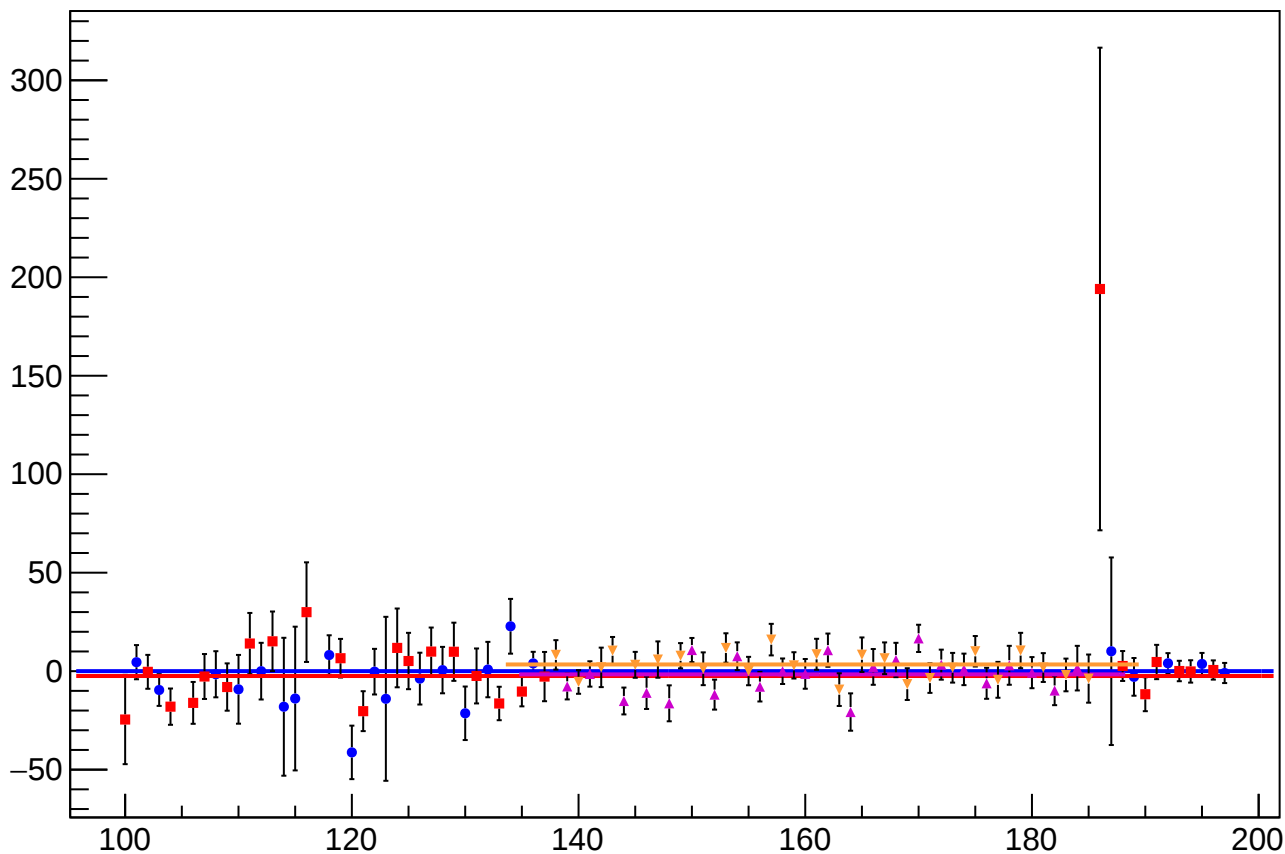
Right: 14435.437 $\pm$ 2.367 χ^2/NDF : 4570104.2/47

In: 9544.897 $\pm$ 1.356 χ^2/NDF :4562899.0/44

Out: 9576.841 $\pm$ 1.310 χ^2/NDF :5857344.7/50

All: 9561.417 $\pm$ 0.942 χ^2/NDF : 10420530.8/9

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 2.017 χ^2/NDF : 19.3/21

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

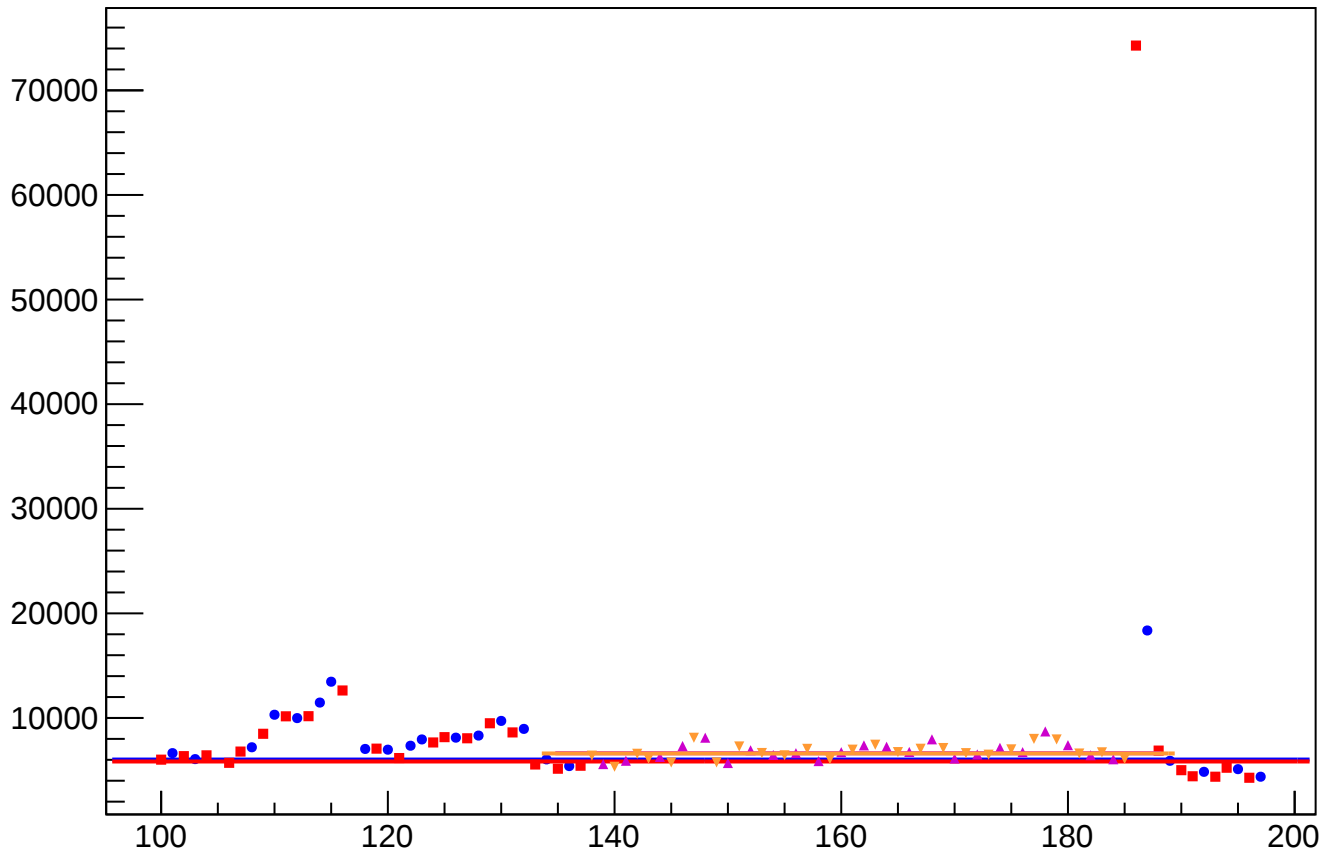
Right: -1.341 $\pm$ 1.357 χ^2/NDF : 45.9/47

In: -0.994 $\pm$ 1.253 χ^2/NDF : 53.2/44

Out: 0.961 $\pm$ 1.184 χ^2/NDF : 48.6/50

All: 0.039 $\pm$ 0.861 χ^2/NDF : 103.0/95

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6024.705+/-1.426 χ^2/NDF : 1376593.1/21

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5839.283+/-1.298 χ^2/NDF : 2097304.0/25

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

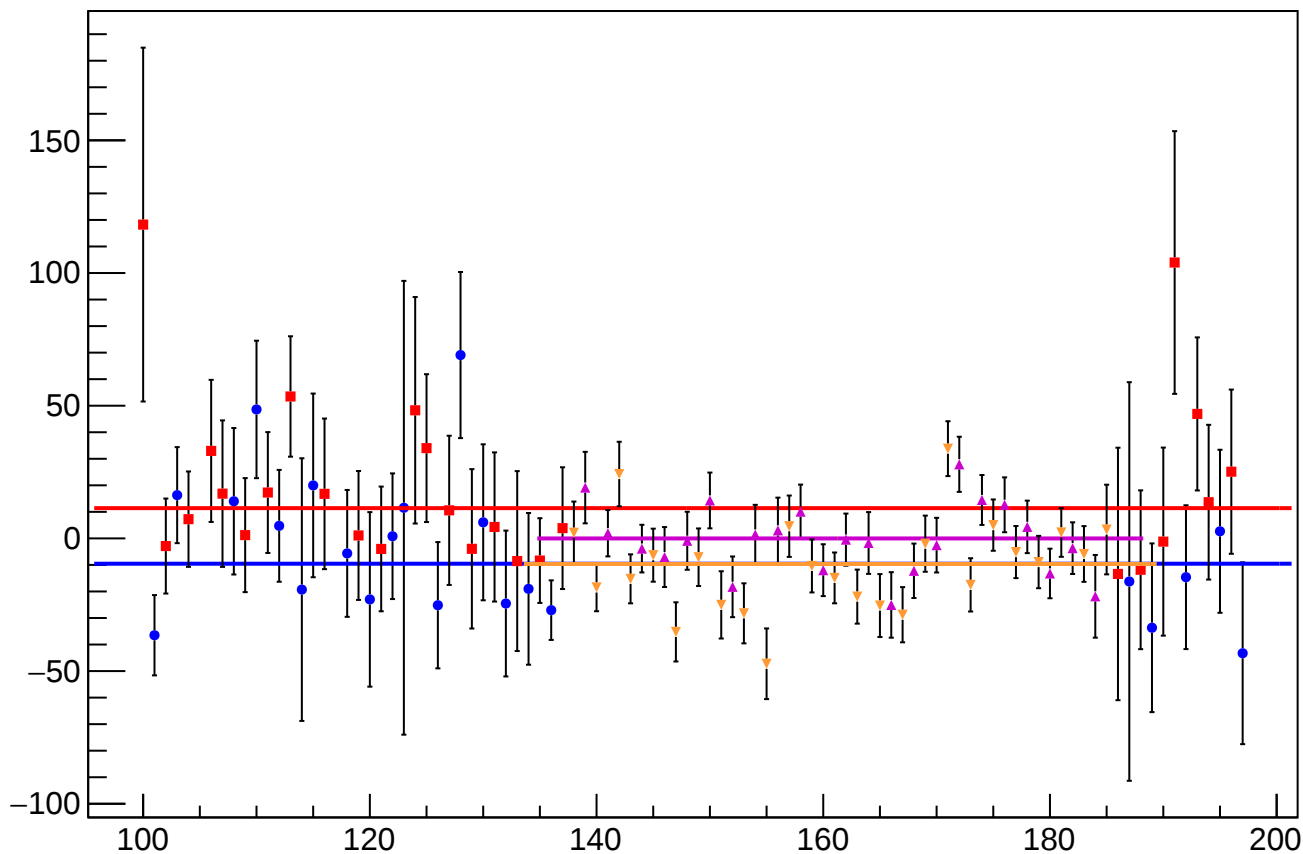
Right: 5923.268+/-0.960 χ^2/NDF : 3483147.2/47

In: 6395.498+/-0.886 χ^2/NDF : 1917009.1/44

Out: 6287.266+/-0.837 χ^2/NDF : 2700035.6/50

All: 6338.334+/-0.609 χ^2/NDF : 4624926.3/95

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.543 $\pm$ 5.186 χ^2/NDF : 24.3/21

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.401 $\pm$ 5.110 χ^2/NDF : 18.3/25

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

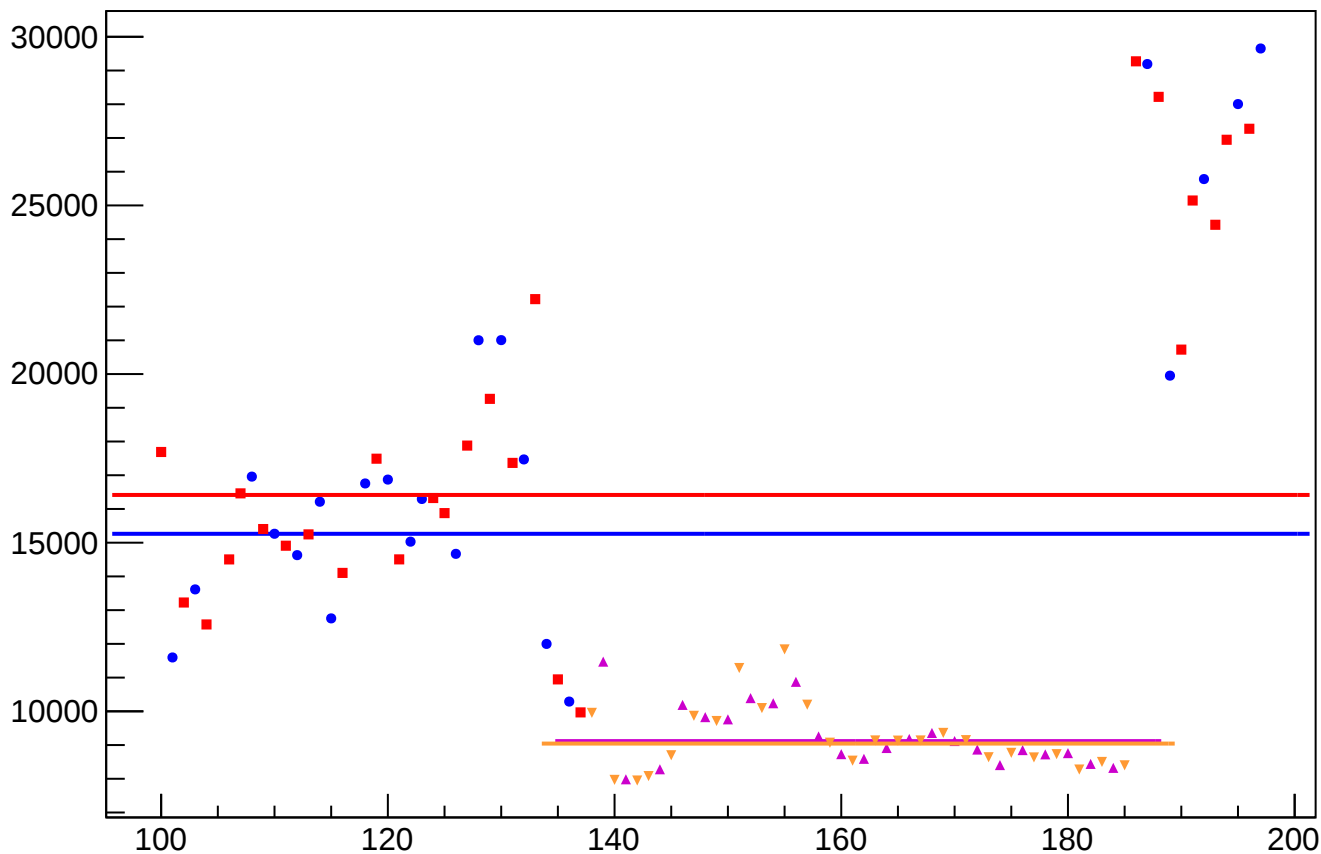
Right: 1.083 $\pm$ 3.640 χ^2/NDF : 50.8/47

In: -1.463 $\pm$ 2.019 χ^2/NDF : 57.7/44

Out: -6.562 $\pm$ 1.957 χ^2/NDF : 92.5/50

All: -4.092 $\pm$ 1.405 χ^2/NDF : 153.6/95

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 15263.520 $\pm$ 3.667 χ^2/NDF : 1854708.1/21

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

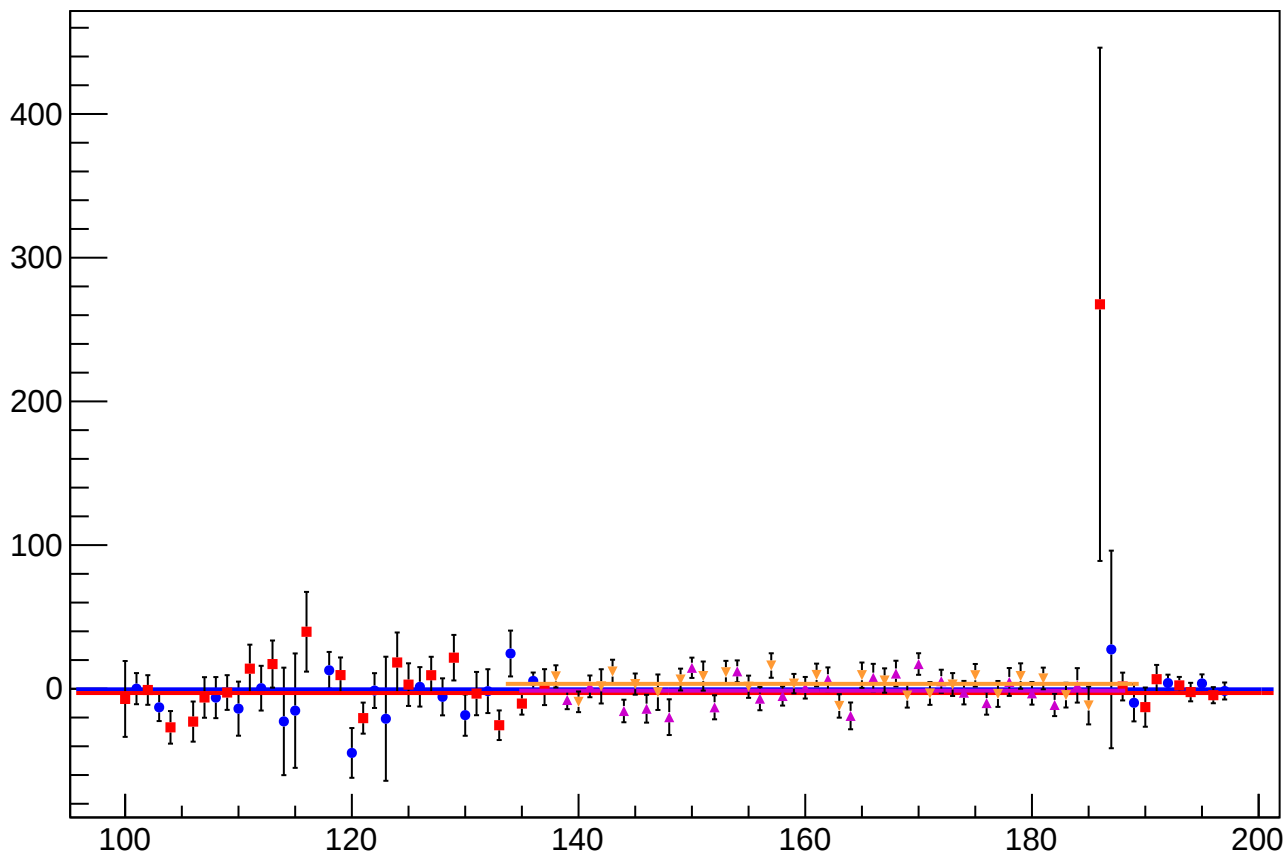
Right: 15848.032 $\pm$ 2.574 χ^2/NDF : 3807769.6/47

In: 10048.584 $\pm$ 1.428 χ^2/NDF : 4515964.0/44

Out: 10124.450 $\pm$ 1.384 χ^2/NDF : 5783277.7/50

All: 10087.704 $\pm$ 0.994 χ^2/NDF : 10300697.8

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.365 ± 2.278 $\chi^2/\text{NDF}: 17.6/21$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -2.950 ± 2.111 $\chi^2/\text{NDF}: 30.3/25$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

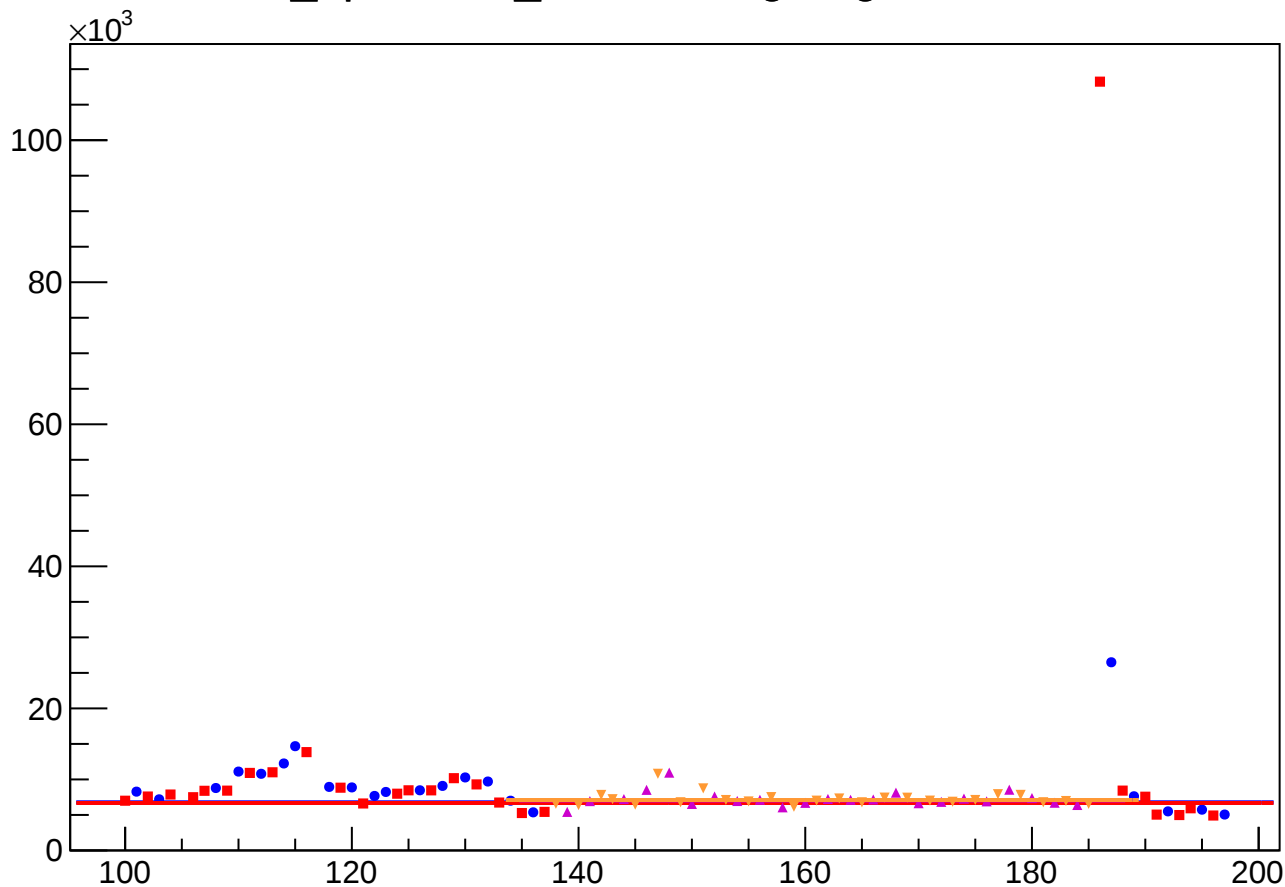
Right: -1.756 ± 1.548 $\chi^2/\text{NDF}: 48.6/47$

In: -0.960 ± 1.363 $\chi^2/\text{NDF}: 54.3/44$

Out: 0.987 ± 1.308 $\chi^2/\text{NDF}: 54.8/50$

All: 0.054 ± 0.944 $\chi^2/\text{NDF}: 110.2/95$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6779.727 $\pm$ 1.611 χ^2/NDF : 1440523.4/21

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

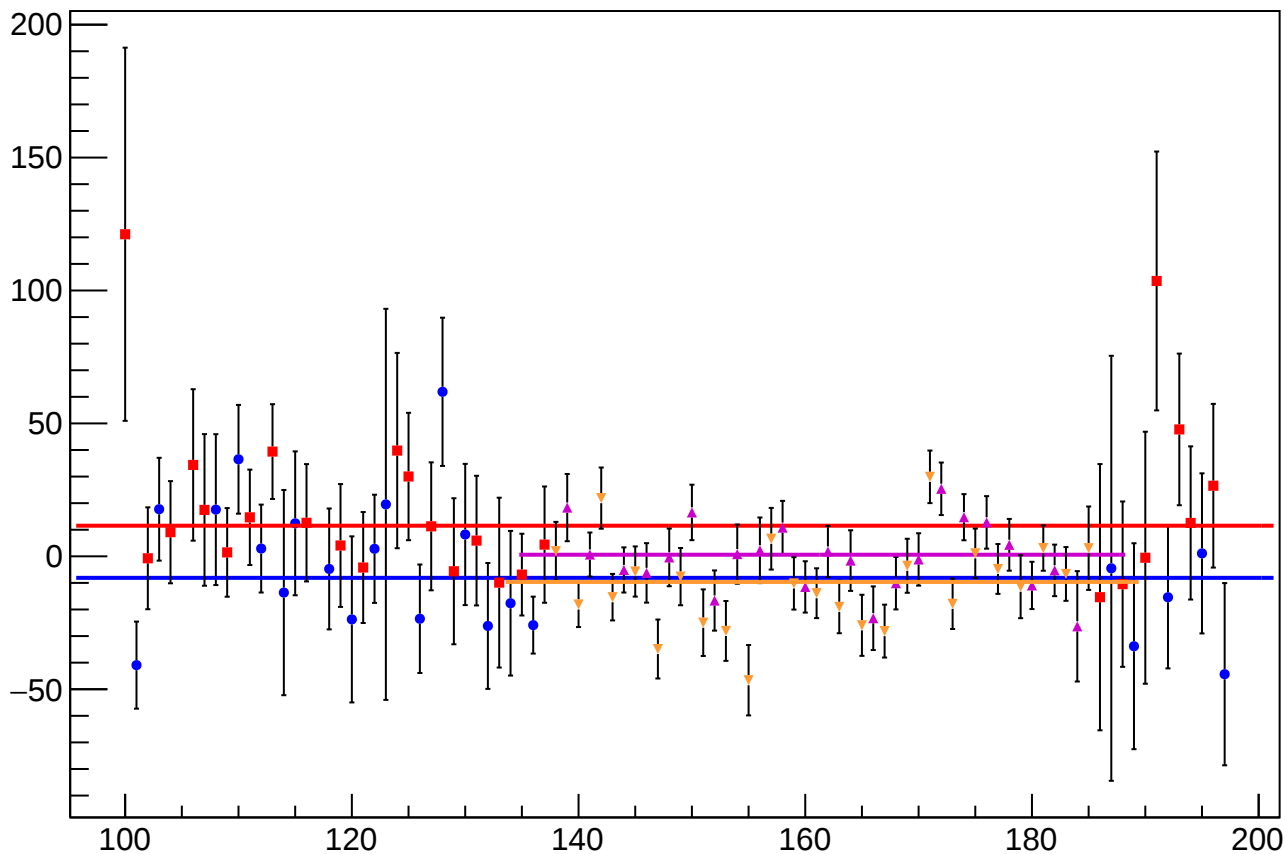
Right: 6728.360 $\pm$ 1.095 χ^2/NDF : 3506314.3/47

In: 6942.810 $\pm$ 0.964 χ^2/NDF : 1997517.5/44

Out: 6939.629 $\pm$ 0.925 χ^2/NDF : 2493961.2/50

All: 6941.154 $\pm$ 0.667 χ^2/NDF : 4491484.4/95

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.097 ± 4.855 χ^2/NDF : 25.6/21

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.516 ± 4.742 χ^2/NDF : 17.0/25

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

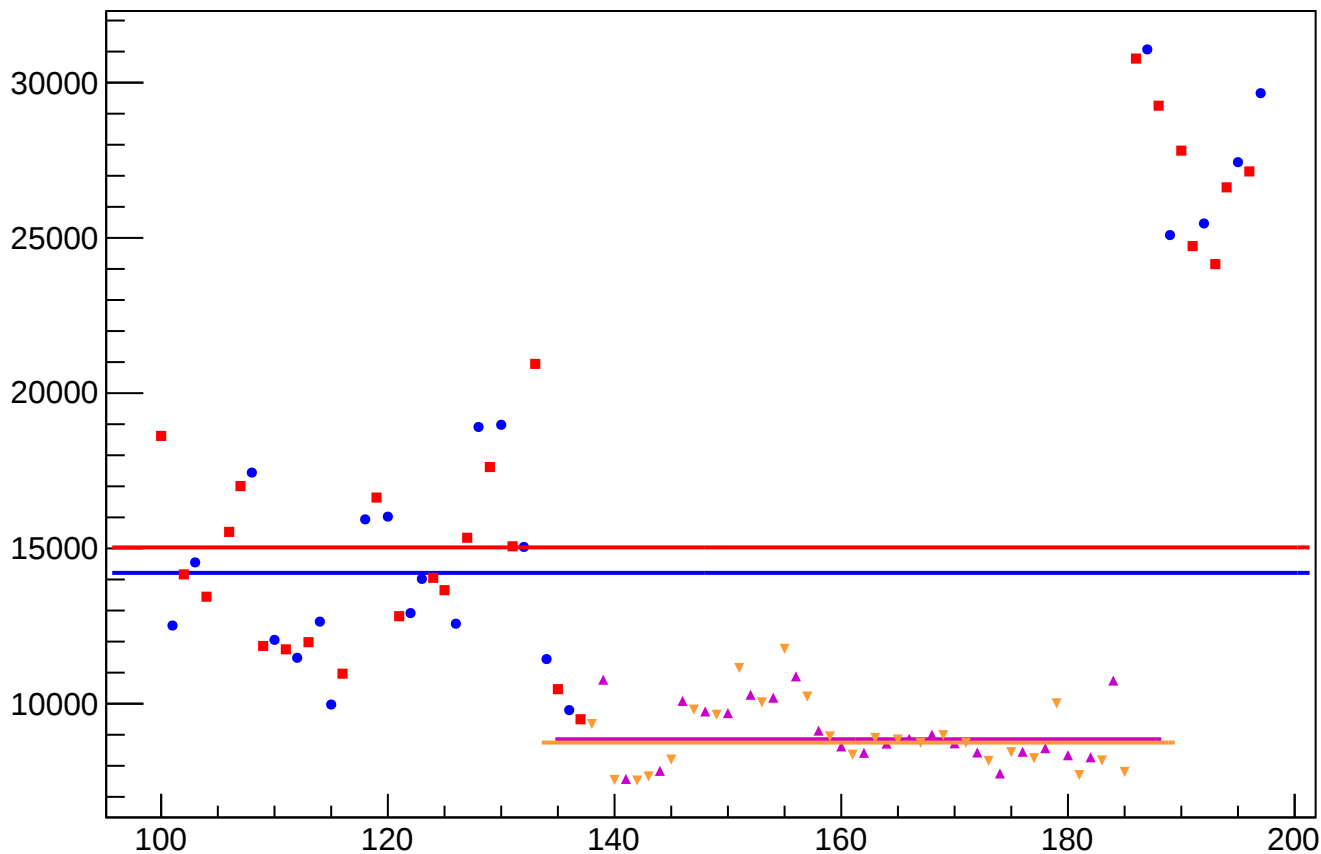
Right: 1.941 ± 3.392 χ^2/NDF : 50.9/47

In: -0.810 ± 1.954 χ^2/NDF : 57.9/44

Out: -6.289 ± 1.887 χ^2/NDF : 91.4/50

All: -3.645 ± 1.358 χ^2/NDF : 153.3/95

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 14213.097 ± 3.433 $\chi^2/\text{NDF}: 2094340.0/21$

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 $\chi^2/\text{NDF}: 833550.6/47$

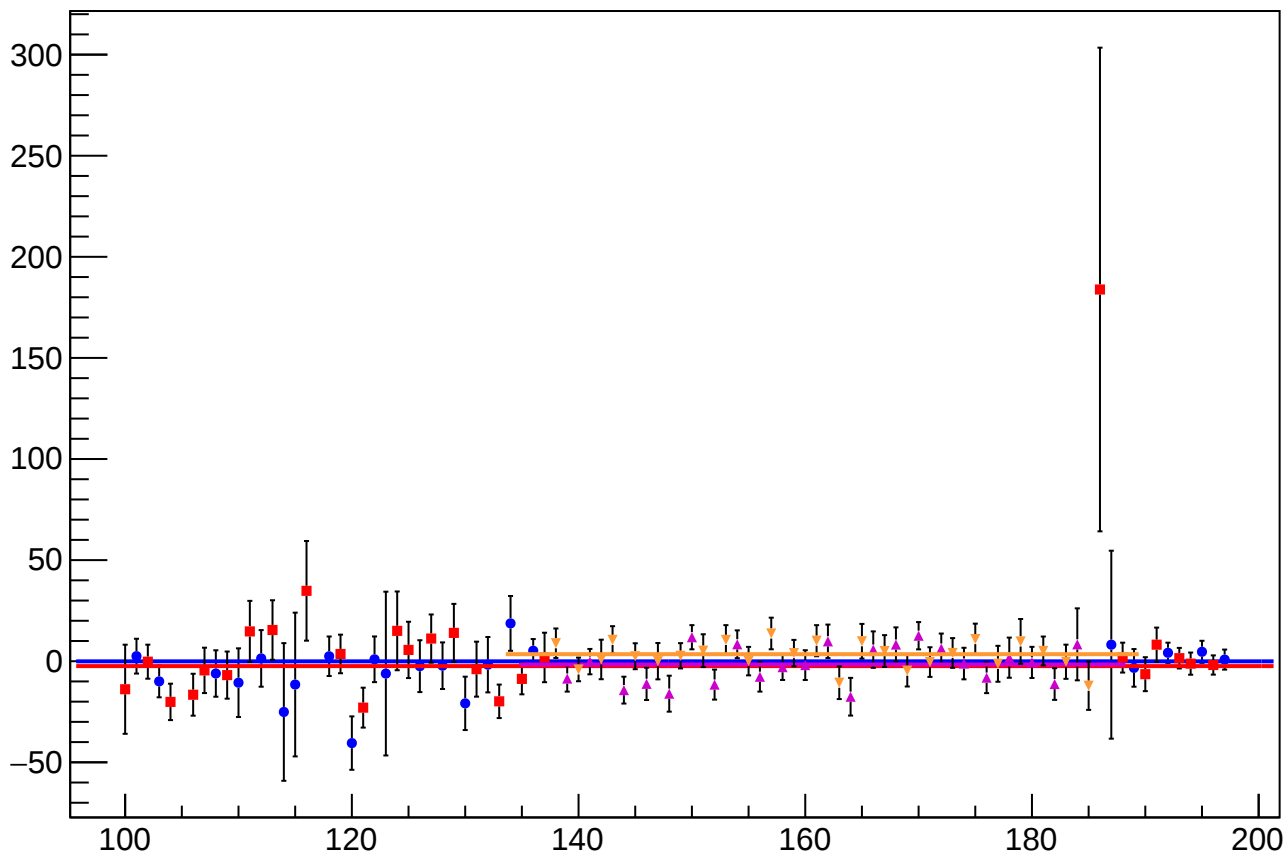
Right: 14632.639 ± 2.399 $\chi^2/\text{NDF}: 4532257.2/47$

In: 9723.790 ± 1.382 $\chi^2/\text{NDF}: 4502694.9/44$

Out: 9743.902 ± 1.335 $\chi^2/\text{NDF}: 5828497.3/50$

All: 9734.197 ± 0.960 $\chi^2/\text{NDF}: 10331301.8/95$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -0.067 $\pm$ 1.967 χ^2/NDF : 19.4/21

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF :15.8/24

Right Out: -2.419 $\pm$ 1.793 χ^2/NDF : 30.2/25

Left In: -1.638 $\pm$ 1.578 χ^2/NDF :33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

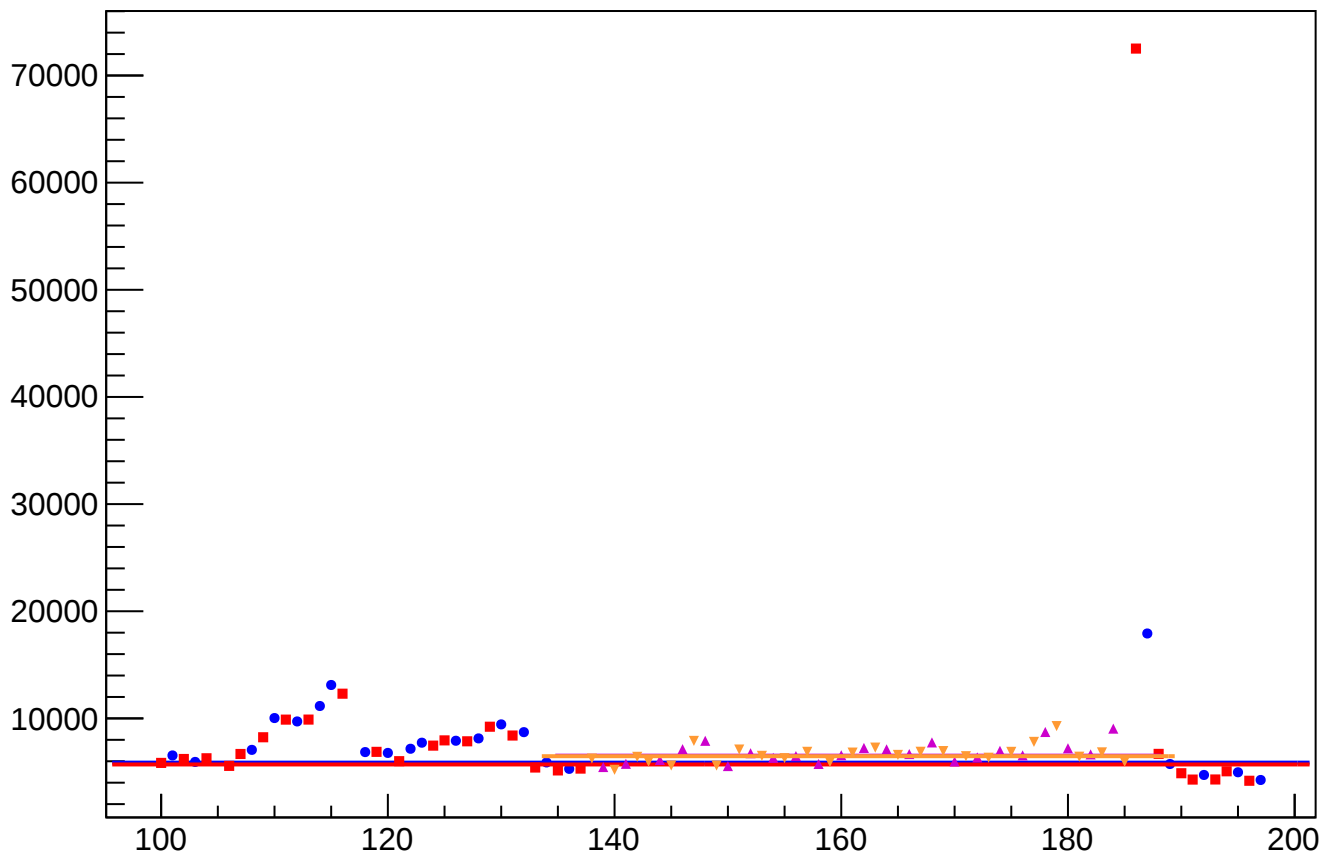
Right: -1.352 $\pm$ 1.325 χ^2/NDF : 50.4/47

In: -1.023 $\pm$ 1.231 χ^2/NDF :53.5/44

Out: 1.001 $\pm$ 1.161 χ^2/NDF :52.3/50

All: 0.048 $\pm$ 0.845 χ^2/NDF : 107.2/95

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5871.991+/-1.391 χ^2/NDF : 1385315.6/21

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5701.429+/-1.268 χ^2/NDF : 2083790.1/25

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

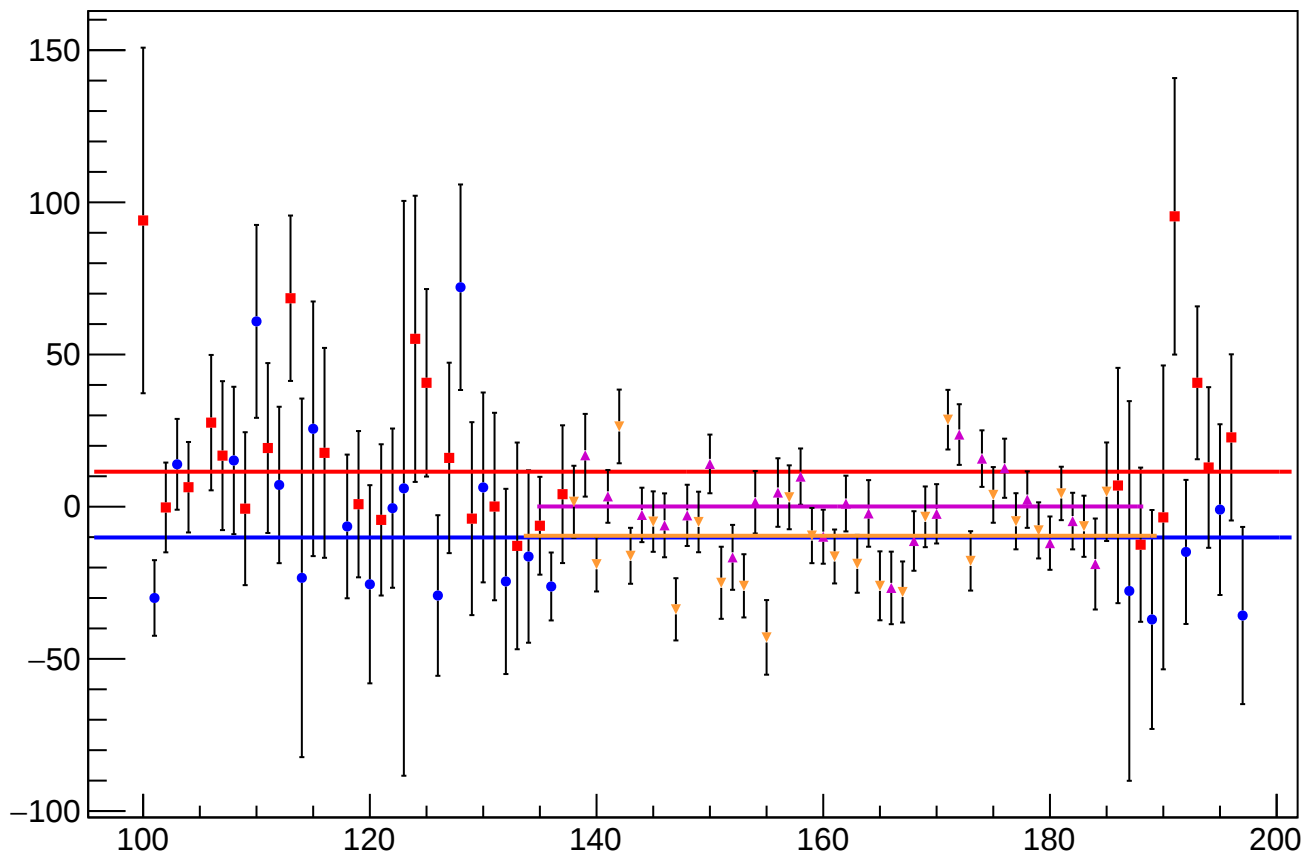
Right: 5778.802+/-0.937 χ^2/NDF : 3477319.4/47

In: 6267.528+/-0.870 χ^2/NDF : 1998206.6/44

Out: 6148.625+/-0.821 χ^2/NDF : 2788541.4/50

All: 6204.617+/-0.597 χ^2/NDF : 4796622.6/95

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -10.112 ± 5.043 $\chi^2/\text{NDF}: 23.6/21$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 11.499 ± 4.982 $\chi^2/\text{NDF}: 18.7/25$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

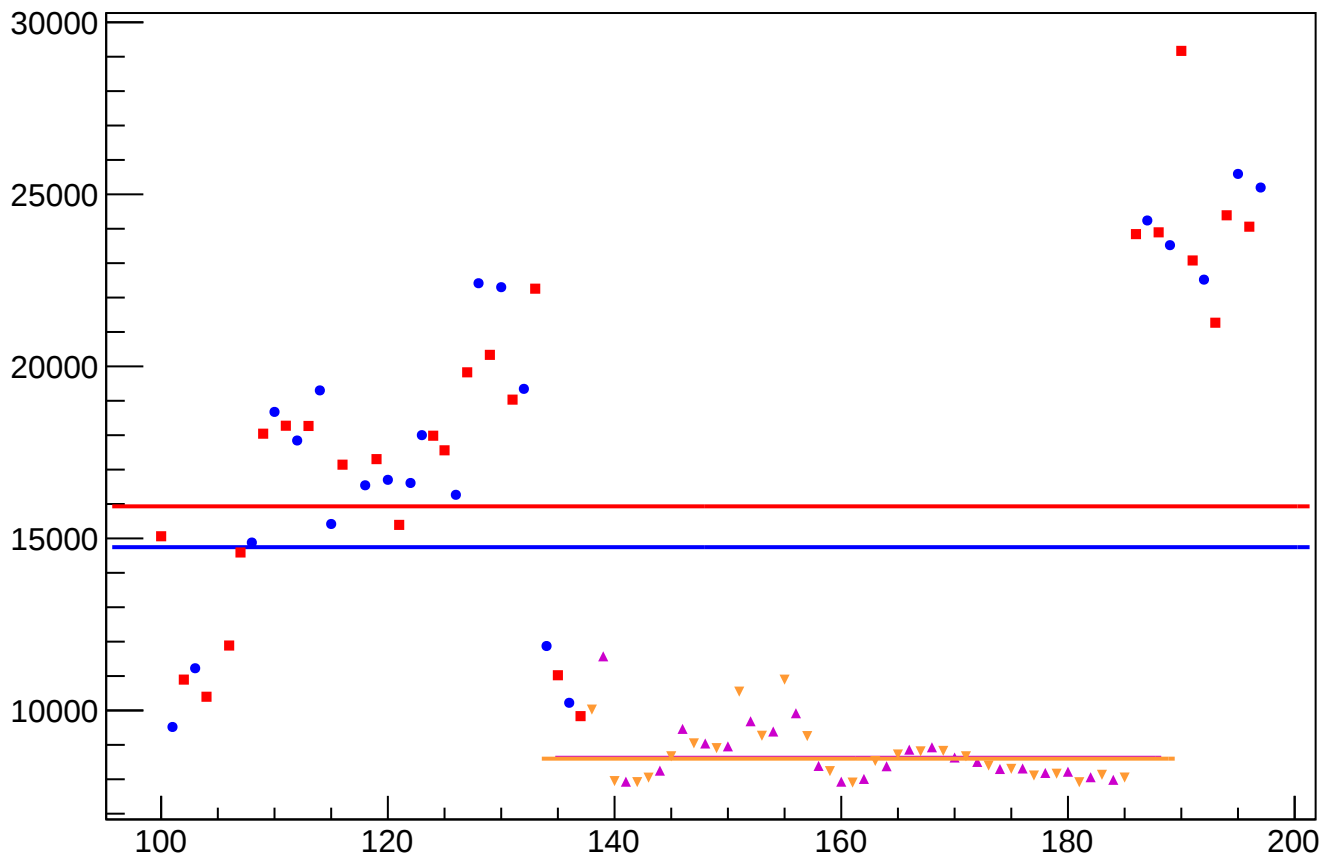
Right: 0.824 ± 3.544 $\chi^2/\text{NDF}: 51.6/47$

In: -1.400 ± 1.917 $\chi^2/\text{NDF}: 56.9/44$

Out: -6.603 ± 1.865 $\chi^2/\text{NDF}: 93.6/50$

All: -4.073 ± 1.337 $\chi^2/\text{NDF}: 154.3/95$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14745.752 $\pm$ 3.566 χ^2 /NDF: 2129389.3/21

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 15932.243 $\pm$ 3.523 χ^2 /NDF: 2080722.9/25

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF:237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

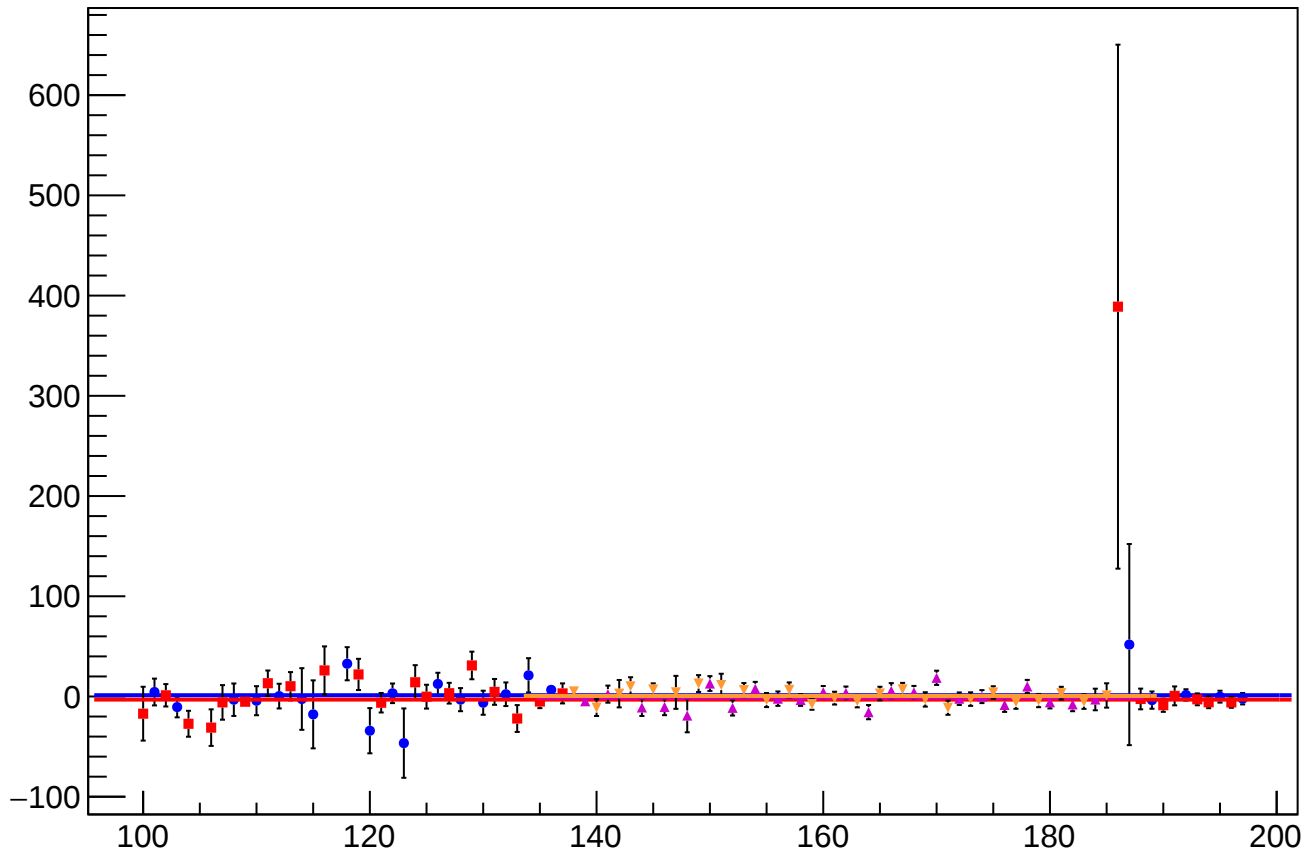
Right: 15346.150 $\pm$ 2.506 χ^2 /NDF: 4266137.4/47

In: 9509.803 $\pm$ 1.356 χ^2 /NDF:4887067.6/44

Out: 9626.951 $\pm$ 1.319 χ^2 /NDF:6055032.7/50

All: 9569.977 $\pm$ 0.945 χ^2 /NDF: 10945936.4/95

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.280 ± 2.064 $\chi^2/\text{NDF}: 15.3/21$

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 $\chi^2/\text{NDF}: 52.6/47$

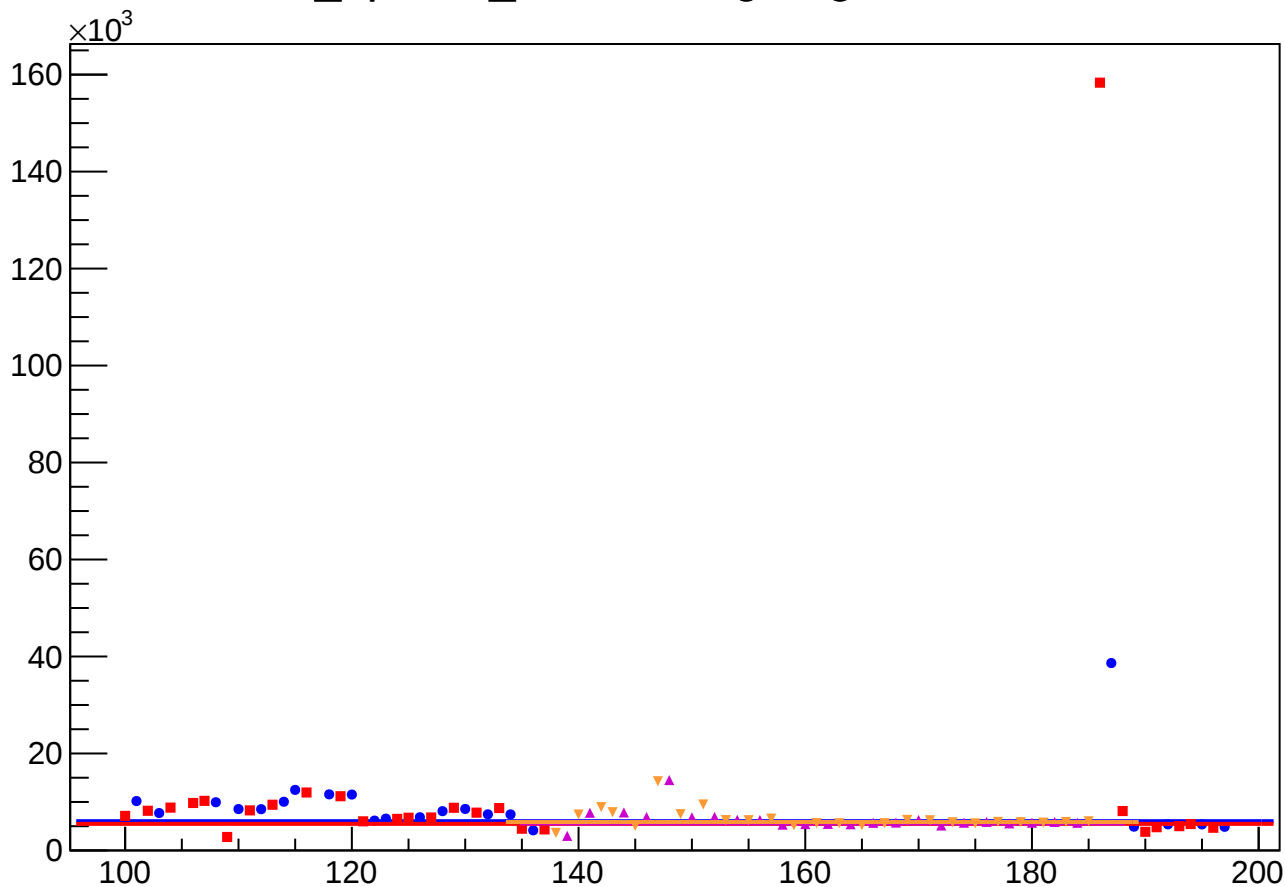
Right: -1.185 ± 1.364 $\chi^2/\text{NDF}: 45.1/47$

In: -0.319 ± 1.156 $\chi^2/\text{NDF}: 48.7/44$

Out: -0.843 ± 1.118 $\chi^2/\text{NDF}: 49.2/50$

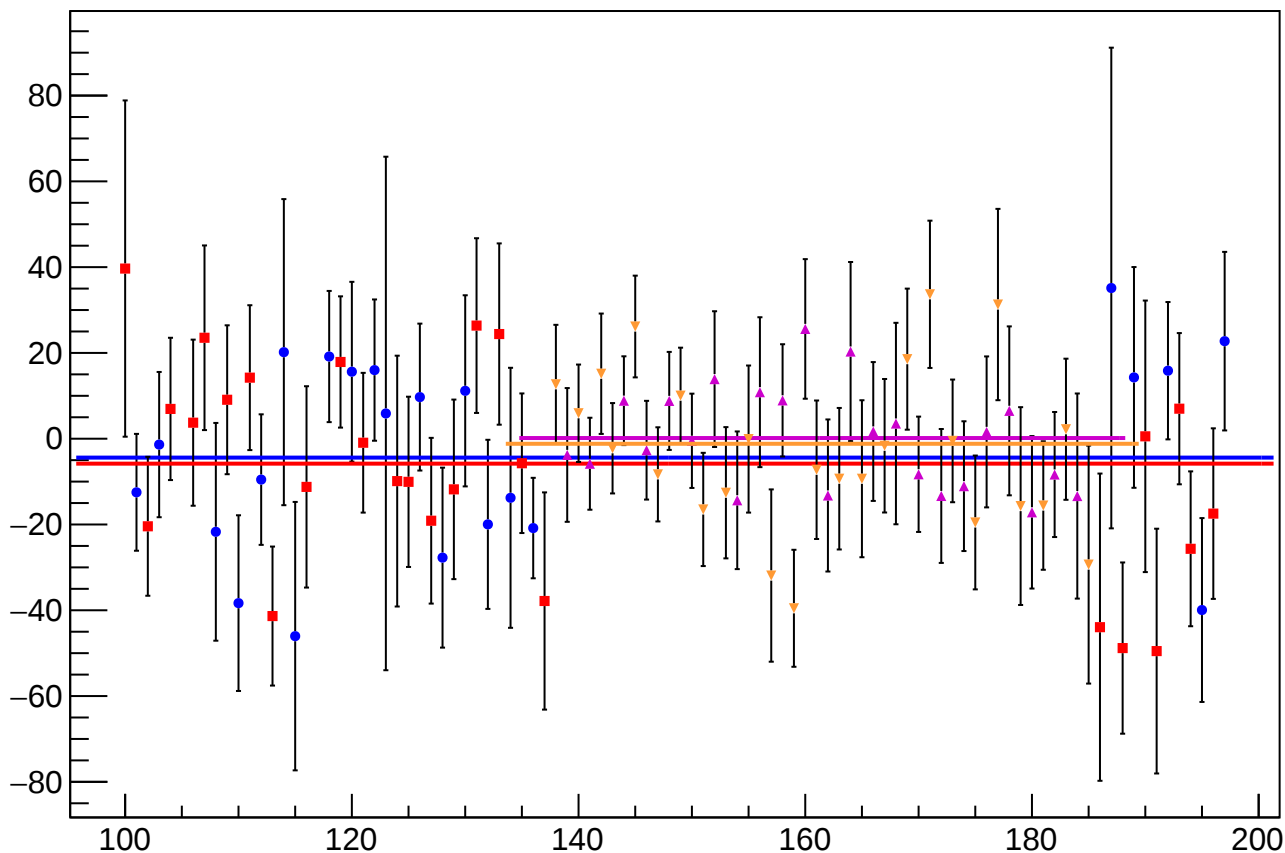
All: -0.590 ± 0.804 $\chi^2/\text{NDF}: 98.0/95$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6038.382 $\pm$ 1.460	χ^2/NDF : 1886272.8/21	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5726.503 $\pm$ 0.965	χ^2/NDF : 5299760.7/47
Right Out: 5484.598 $\pm$ 1.286	χ^2/NDF : 3332422.6/25	In: 5717.836 $\pm$ 0.818	χ^2/NDF : 4119330.2/44
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5718.426 $\pm$ 0.790	χ^2/NDF : 5075675.5/50
		All: 5718.141 $\pm$ 0.568	χ^2/NDF : 9195005.9/95

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.406 $\pm$ 4.141 χ^2/NDF : 23.0/21

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

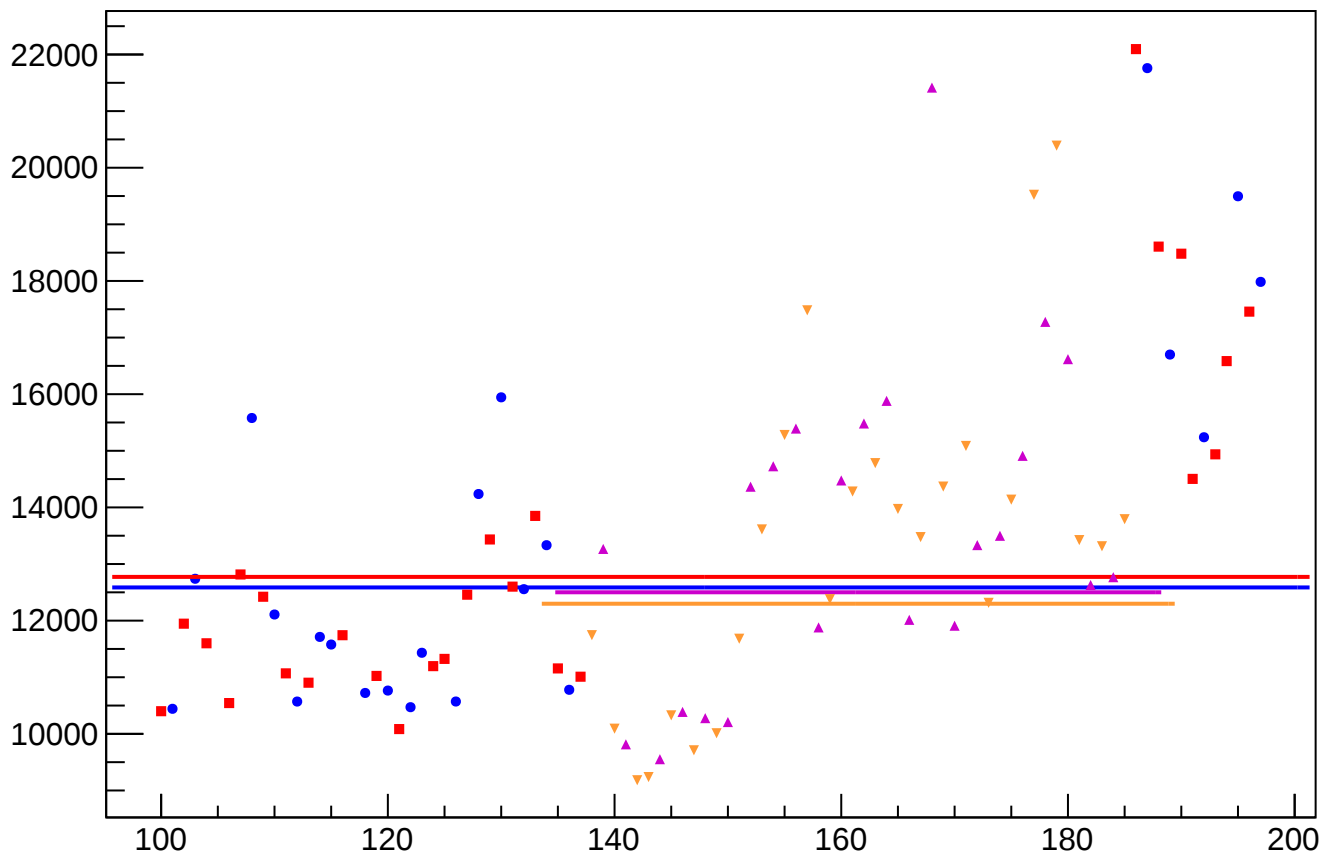
Right: -5.156 $\pm$ 2.832 χ^2/NDF : 54.4/47

In: -1.453 $\pm$ 2.460 χ^2/NDF : 35.3/44

Out: -2.871 $\pm$ 2.343 χ^2/NDF : 66.0/50

All: -2.197 $\pm$ 1.697 χ^2/NDF : 101.4/95

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12586.397 $\pm$ 2.928

χ^2/NDF : 831798.4/21

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 12685.515 $\pm$ 2.002 χ^2/NDF : 1678085.5/47

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12531.005 $\pm$ 1.739 χ^2/NDF : 2190240.5/44

Right Out: 12772.574 $\pm$ 2.744 χ^2/NDF : 844134.7/25

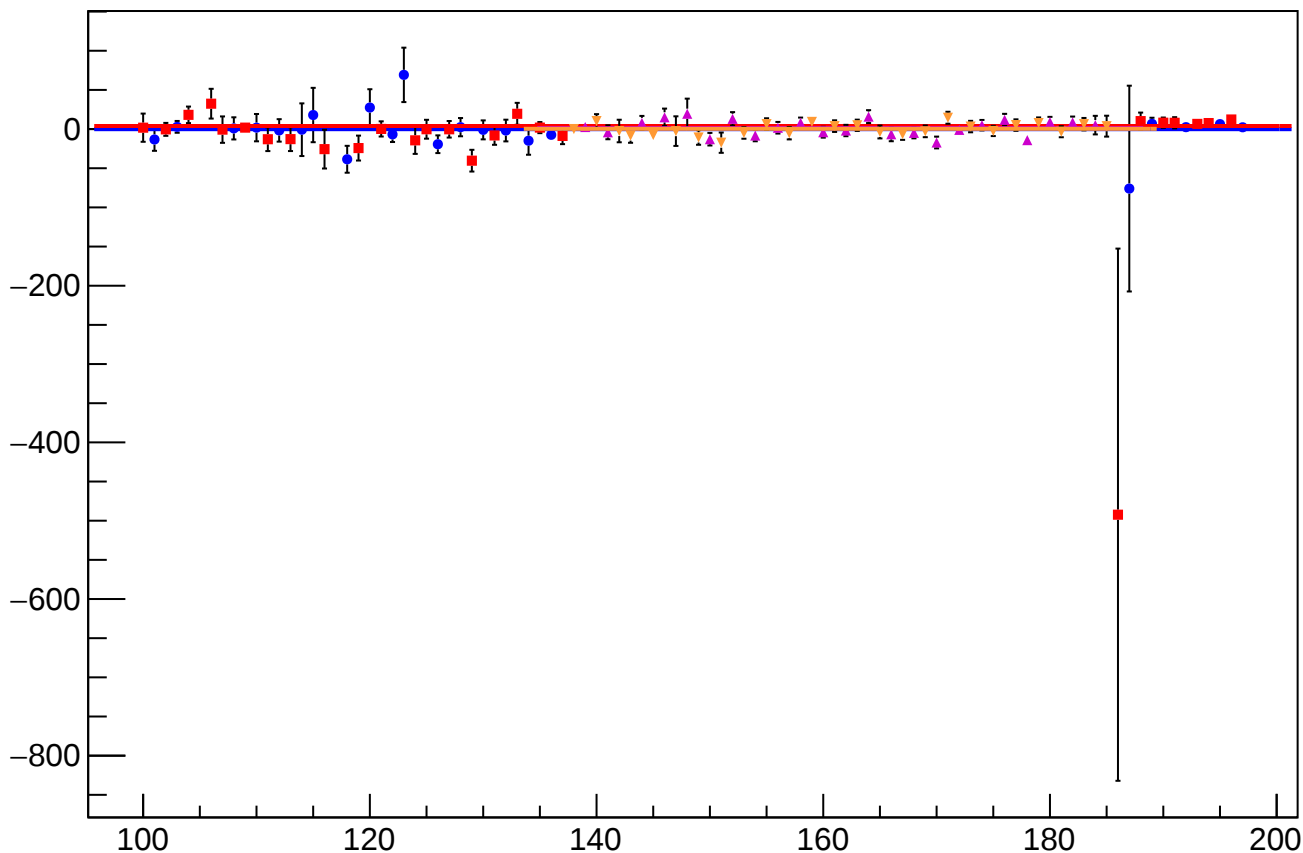
Out: 12471.394 $\pm$ 1.657 χ^2/NDF : 2369115.4/50

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12499.747 $\pm$ 1.200 χ^2/NDF : 4559971.8/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.146 ± 1.902 χ^2/NDF : 21.4/21

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: 3.921 ± 1.696 χ^2/NDF : 34.0/25

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

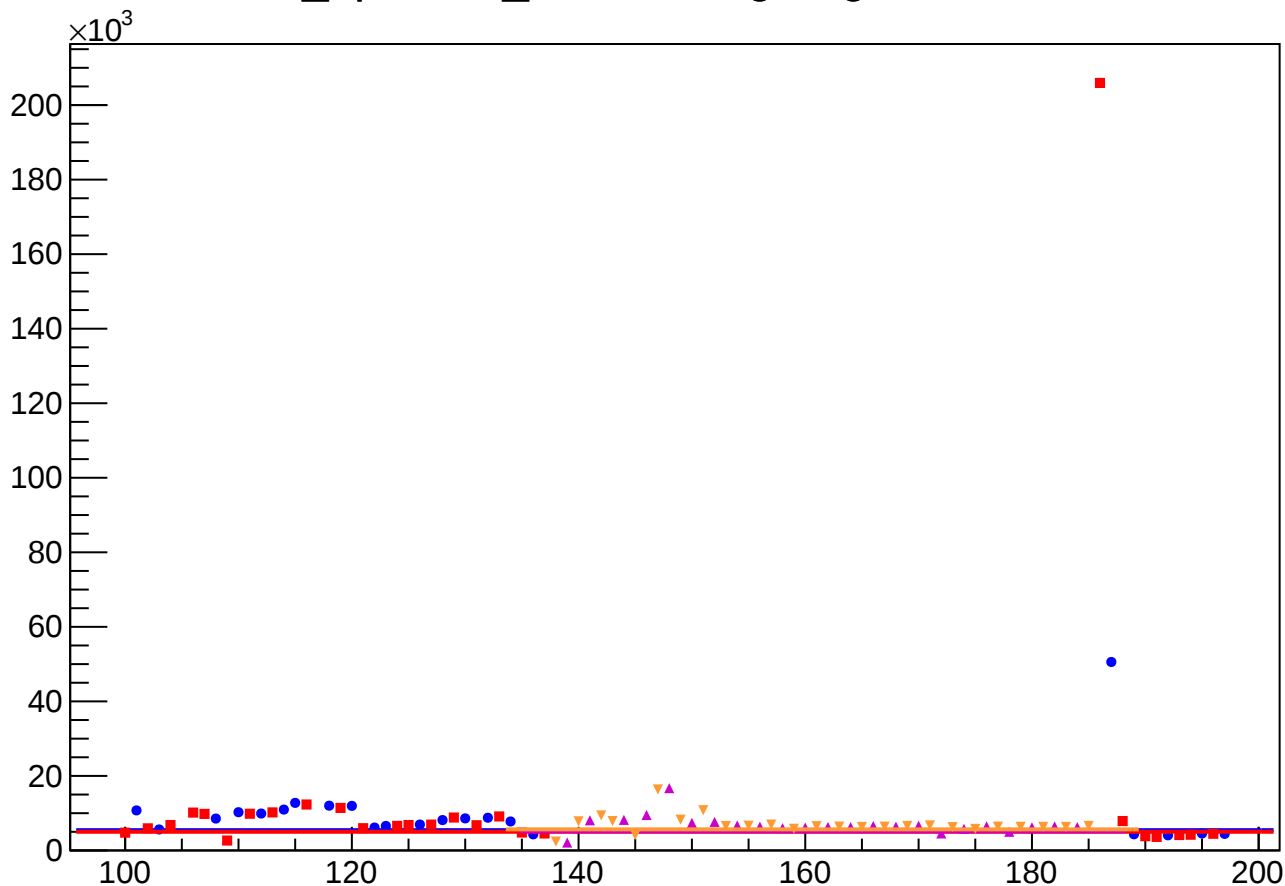
Right: 2.120 ± 1.266 χ^2/NDF : 57.9/47

In: 0.717 ± 1.112 χ^2/NDF : 55.3/44

Out: 1.840 ± 1.095 χ^2/NDF : 55.7/50

All: 1.287 ± 0.780 χ^2/NDF : 111.5/95

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5444.313 $\pm$ 1.345 χ^2/NDF : 2480124.1/21

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

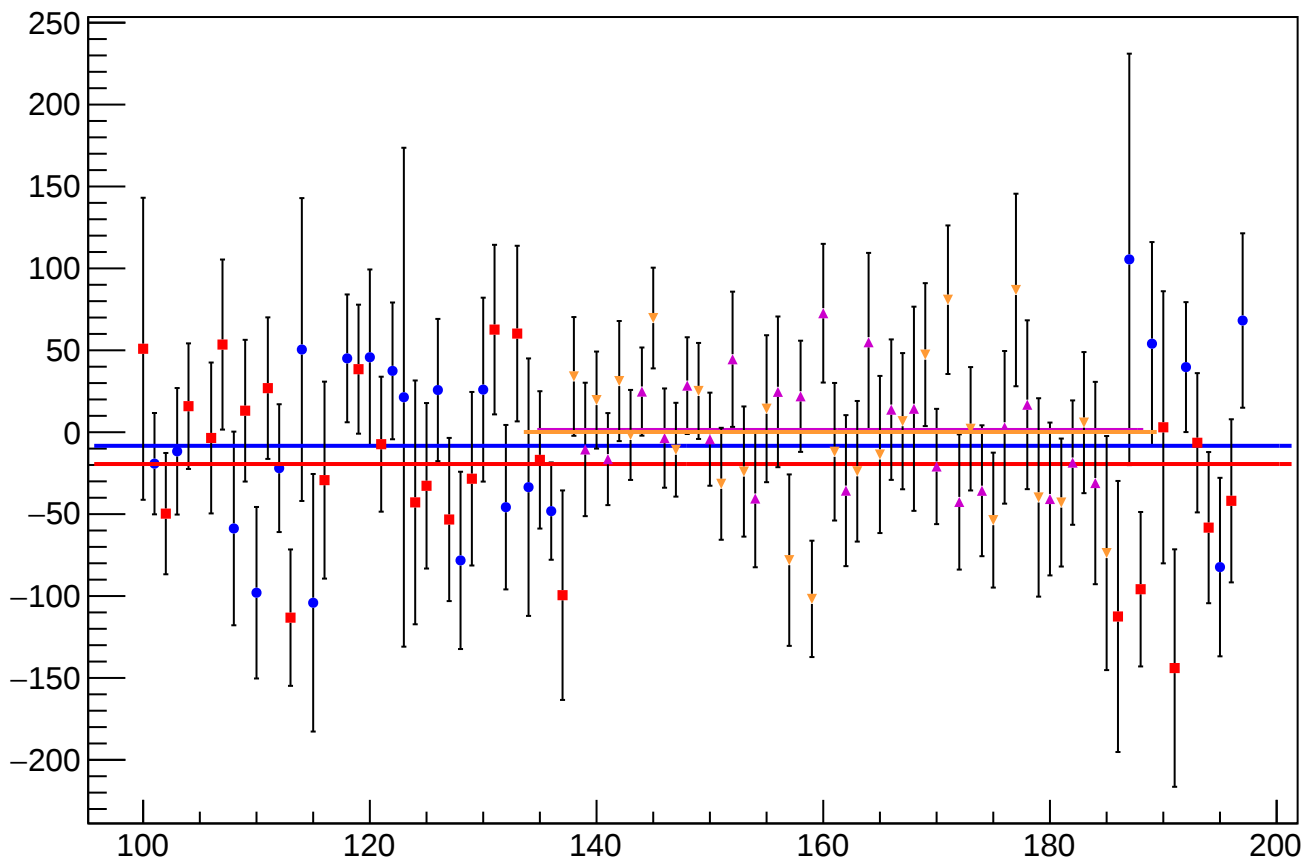
Right: 5206.116 $\pm$ 0.895 χ^2/NDF : 6011637.3/47

In: 5242.612 $\pm$ 0.787 χ^2/NDF : 8009910.1/44

Out: 5391.666 $\pm$ 0.774 χ^2/NDF : 7771326.6/50

All: 5318.328 $\pm$ 0.552 χ^2/NDF : 15799476.6/95

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.300 ± 10.284 χ^2/NDF : 22.3/21

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

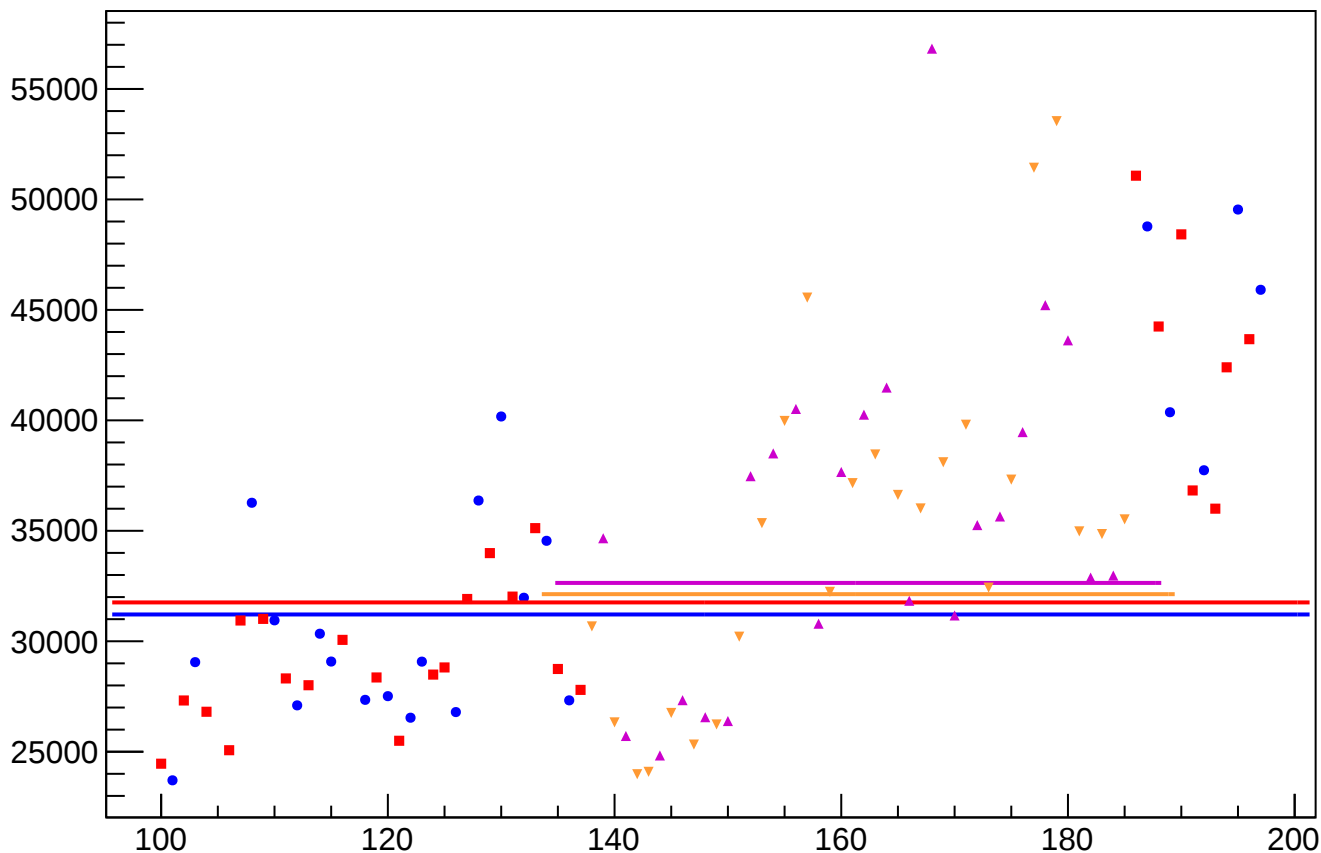
Right: -14.213 ± 7.034 χ^2/NDF : 51.0/47

In: -2.268 ± 6.310 χ^2/NDF : 36.1/44

Out: -7.451 ± 6.009 χ^2/NDF : 61.9/50

All: -4.986 ± 4.351 χ^2/NDF : 98.4/95

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 31213.098 $\pm$ 7.272

χ^2/NDF : 861105.8/21

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

Right: 31503.166 $\pm$ 4.974 χ^2/NDF : 1694271.2/47

Right Out: 31758.242 $\pm$ 6.819

χ^2/NDF : 830174.8/25

In: 32103.563 $\pm$ 4.462 χ^2/NDF : 2287318.0/44

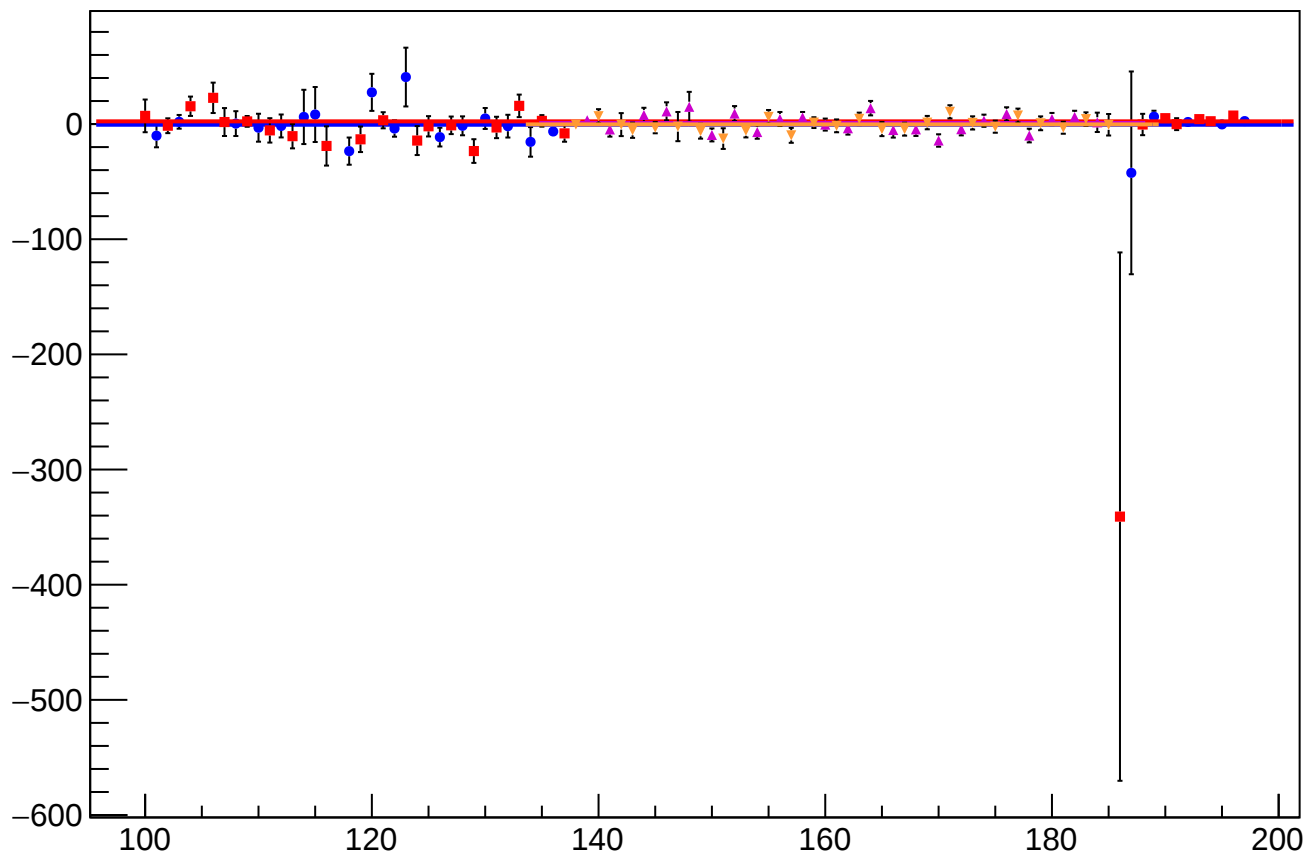
Out: 31987.059 $\pm$ 4.249 χ^2/NDF : 2372095.1/50

Left In: 32641.162 $\pm$ 5.650

χ^2/NDF : 1402162.4/22

All: 32042.472 $\pm$ 3.077 χ^2/NDF : 4659770.7/95

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -0.593 ± 1.321 χ^2/NDF : 21.1/21

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

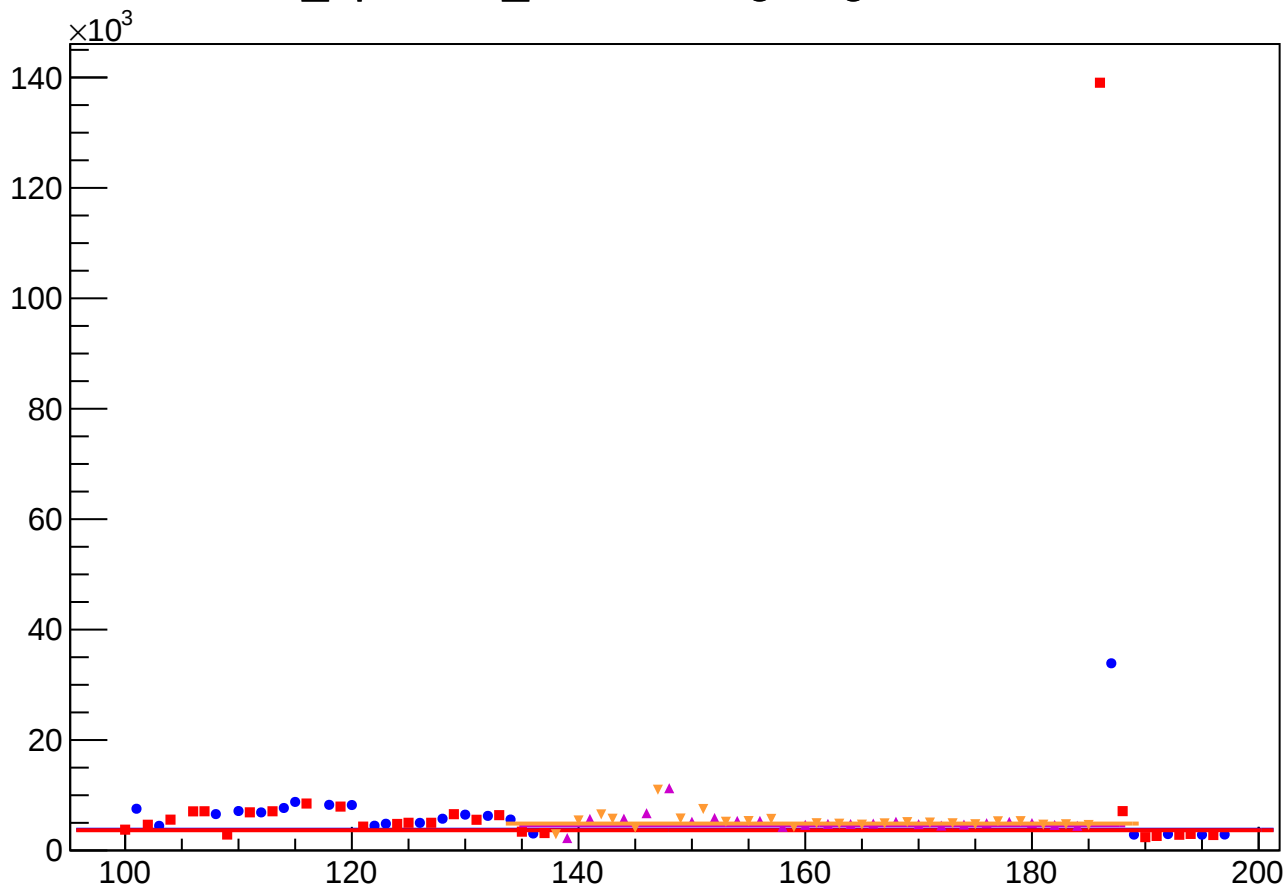
Right: 0.991 ± 0.898 χ^2/NDF : 53.2/47

In: 0.265 ± 0.864 χ^2/NDF : 58.0/44

Out: 0.961 ± 0.847 χ^2/NDF : 49.6/50

All: 0.620 ± 0.605 χ^2/NDF : 107.9/95

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3755.082 ± 0.934 χ^2/NDF : 2733807.4/21

Left Out: 4868.567 ± 0.829 χ^2/NDF : 1511151.0/24

Right Out: 3662.740 ± 0.866 χ^2/NDF : 3505717.5/25

Left In: 4544.337 ± 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 ± 0.578 χ^2/NDF : 4223993.0/47

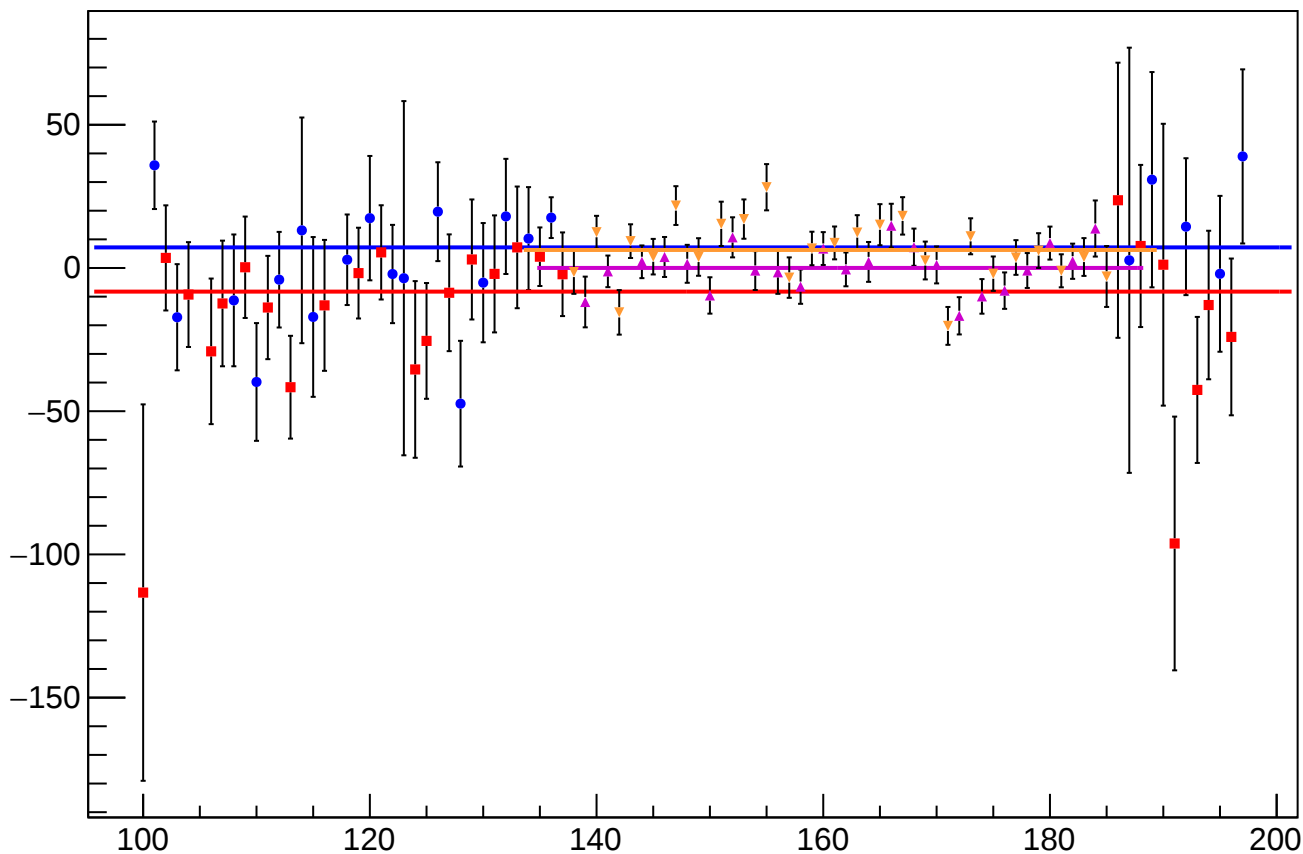
Right: 3705.432 ± 0.635 χ^2/NDF : 6244782.8/47

In: 4206.582 ± 0.611 χ^2/NDF : 5776793.6/44

Out: 4292.248 ± 0.599 χ^2/NDF : 6029288.6/50

All: 4250.282 ± 0.428 χ^2/NDF : 11816114.5/95

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.193 ± 3.925 $\chi^2/\text{NDF}: 24.2/21$

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 $\chi^2/\text{NDF}: 97.5/47$

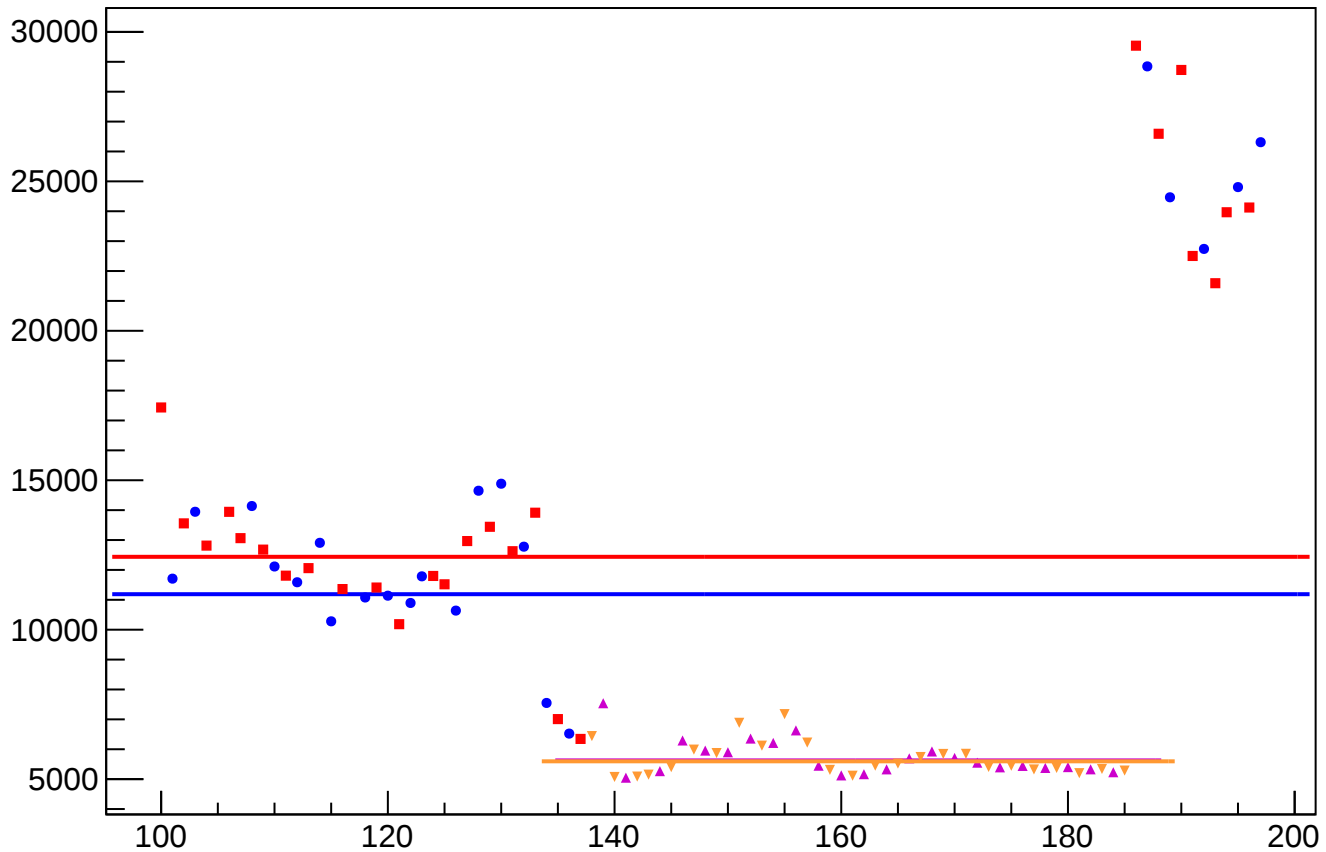
Right: -0.400 ± 2.798 $\chi^2/\text{NDF}: 51.1/47$

In: 0.782 ± 1.279 $\chi^2/\text{NDF}: 57.1/44$

Out: 4.881 ± 1.245 $\chi^2/\text{NDF}: 87.8/50$

All: 2.887 ± 0.892 $\chi^2/\text{NDF}: 150.2/95$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11187.712 $\pm$ 2.776 χ^2 /NDF: 2986867.1/21

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 12438.505 $\pm$ 2.822 χ^2 /NDF: 3109356.7/25

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

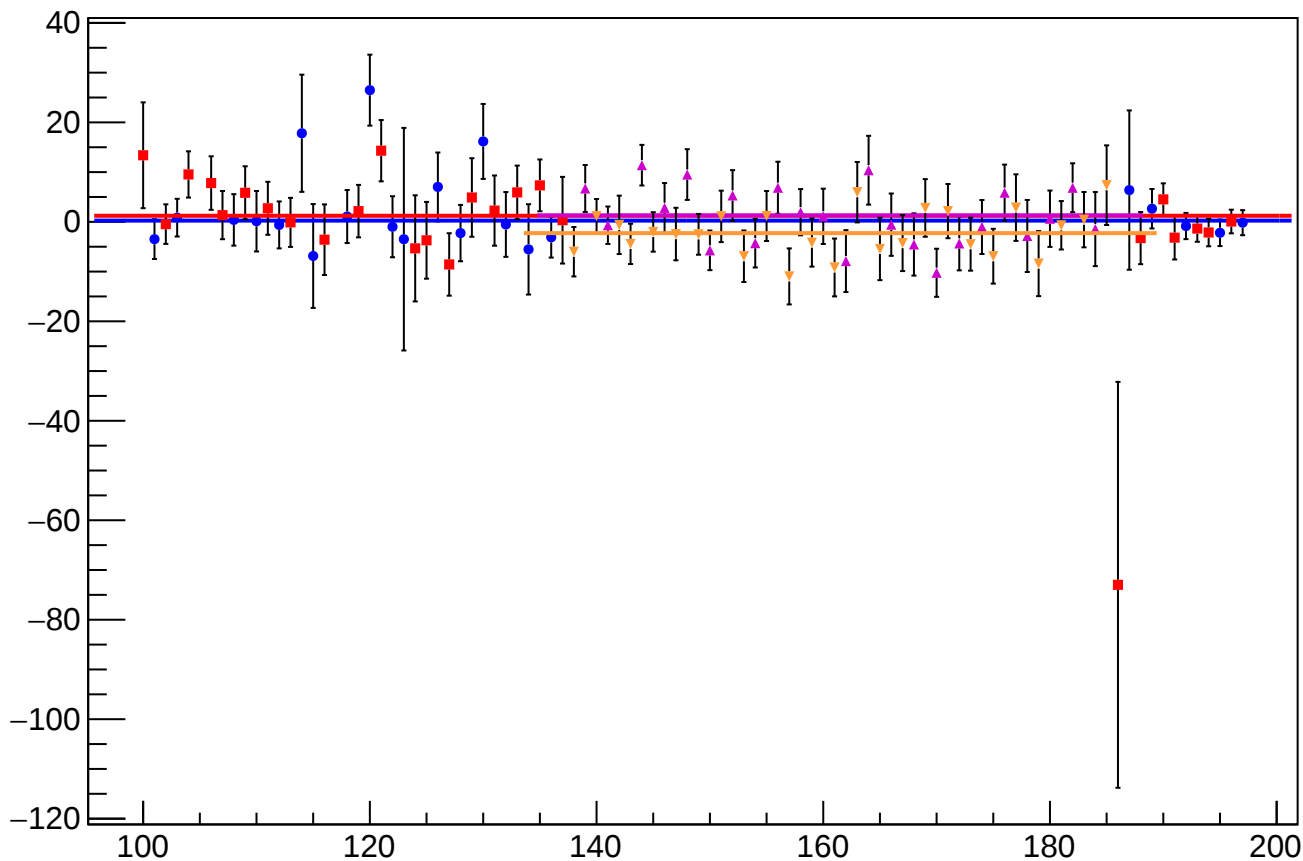
Right: 11802.799 $\pm$ 1.979 χ^2 /NDF: 6196081.1/47

In: 6217.791 $\pm$ 0.905 χ^2 /NDF: 6853053.7/44

Out: 6262.113 $\pm$ 0.880 χ^2 /NDF: 8700543.3/50

All: 6240.556 $\pm$ 0.631 χ^2 /NDF: 15554830.3/9

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.251 ± 0.992 χ^2/NDF : 25.5/21

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 1.227 ± 0.915 χ^2/NDF : 26.4/25

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

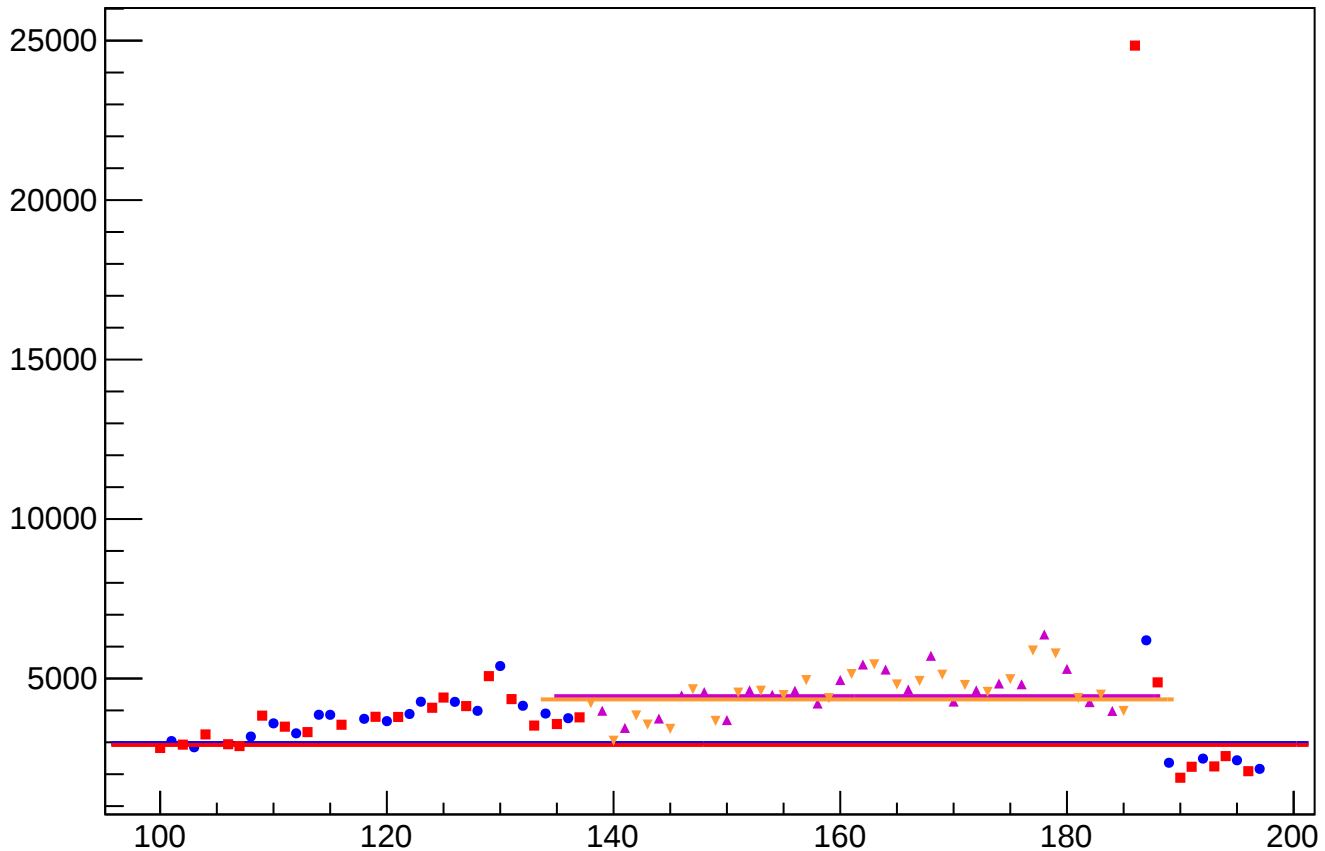
Right: 0.779 ± 0.673 χ^2/NDF : 52.4/47

In: 0.735 ± 0.730 χ^2/NDF : 56.8/44

Out: -0.316 ± 0.684 χ^2/NDF : 48.2/50

All: 0.176 ± 0.499 χ^2/NDF : 106.1/95

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2976.972+/-0.702 χ^2/NDF : 1153393.0/21

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2917.918+/-0.647 χ^2/NDF : 2209741.8/25

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

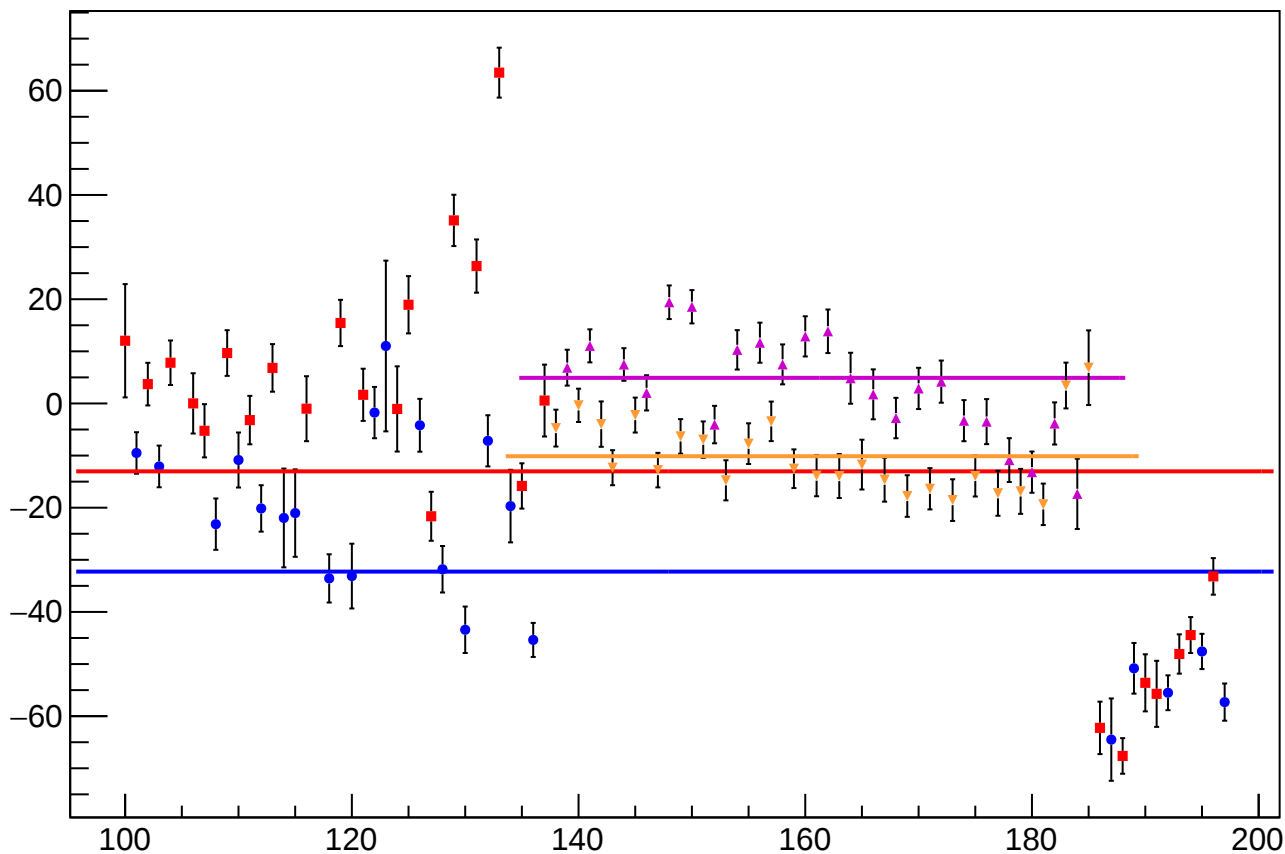
Right: 2945.068+/-0.476 χ^2/NDF : 3366961.4/47

In: 3651.518+/-0.516 χ^2/NDF : 3869090.1/44

Out: 3548.252+/-0.484 χ^2/NDF : 5357831.9/50

All: 3596.549+/-0.353 χ^2/NDF : 9248237.6/95

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -32.263 ± 0.997 χ^2/NDF : 365.7/21

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -13.026 ± 0.927 χ^2/NDF : 1264.8/25

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

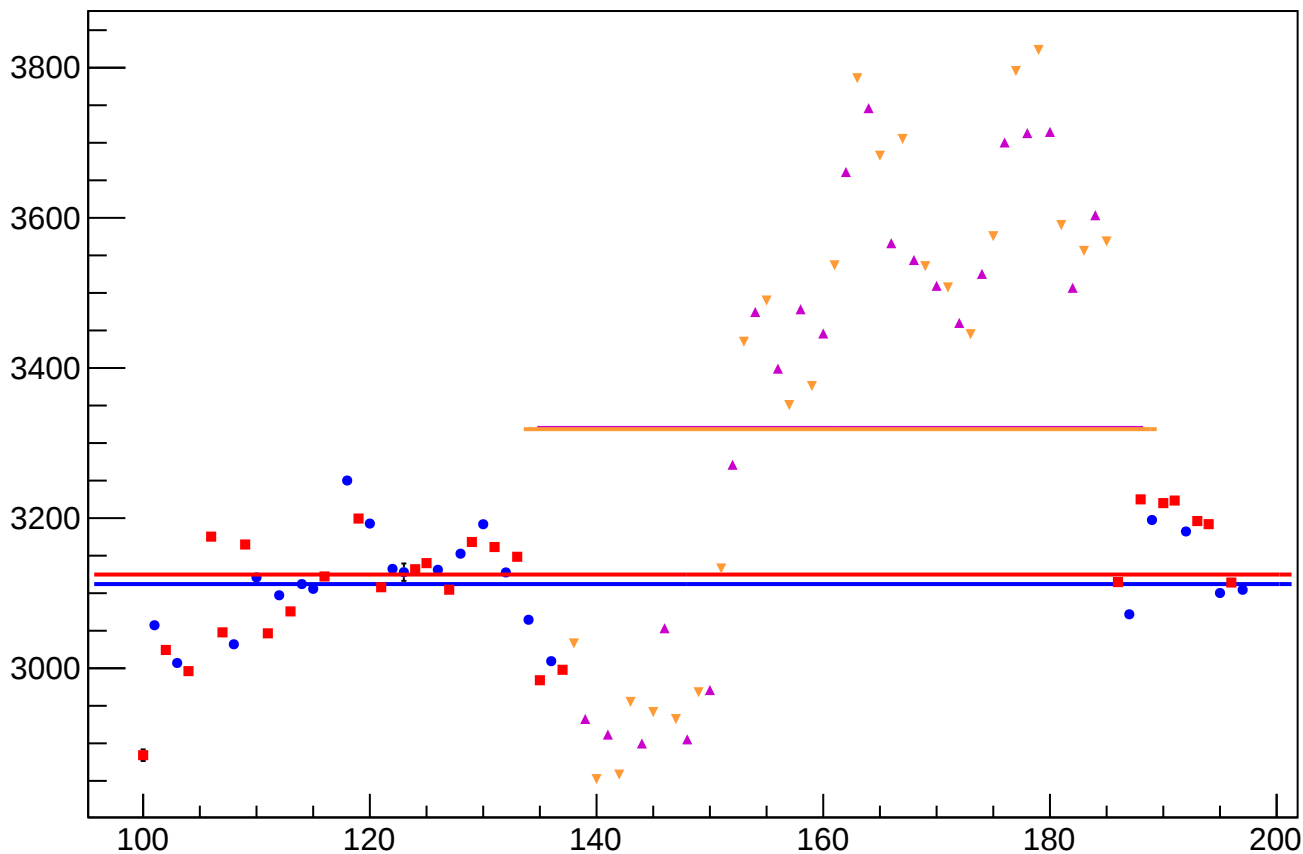
Right: -21.942 ± 0.679 χ^2/NDF : 1830.1/47

In: -9.579 ± 0.623 χ^2/NDF : 1341.4/44

Out: -11.319 ± 0.595 χ^2/NDF : 1338.5/50

All: -10.489 ± 0.430 χ^2/NDF : 2683.9/95

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.156 $\pm$ 0.705 χ^2 /NDF: 8974.4/21

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3124.861 $\pm$ 0.655 χ^2 /NDF: 13608.5/25

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

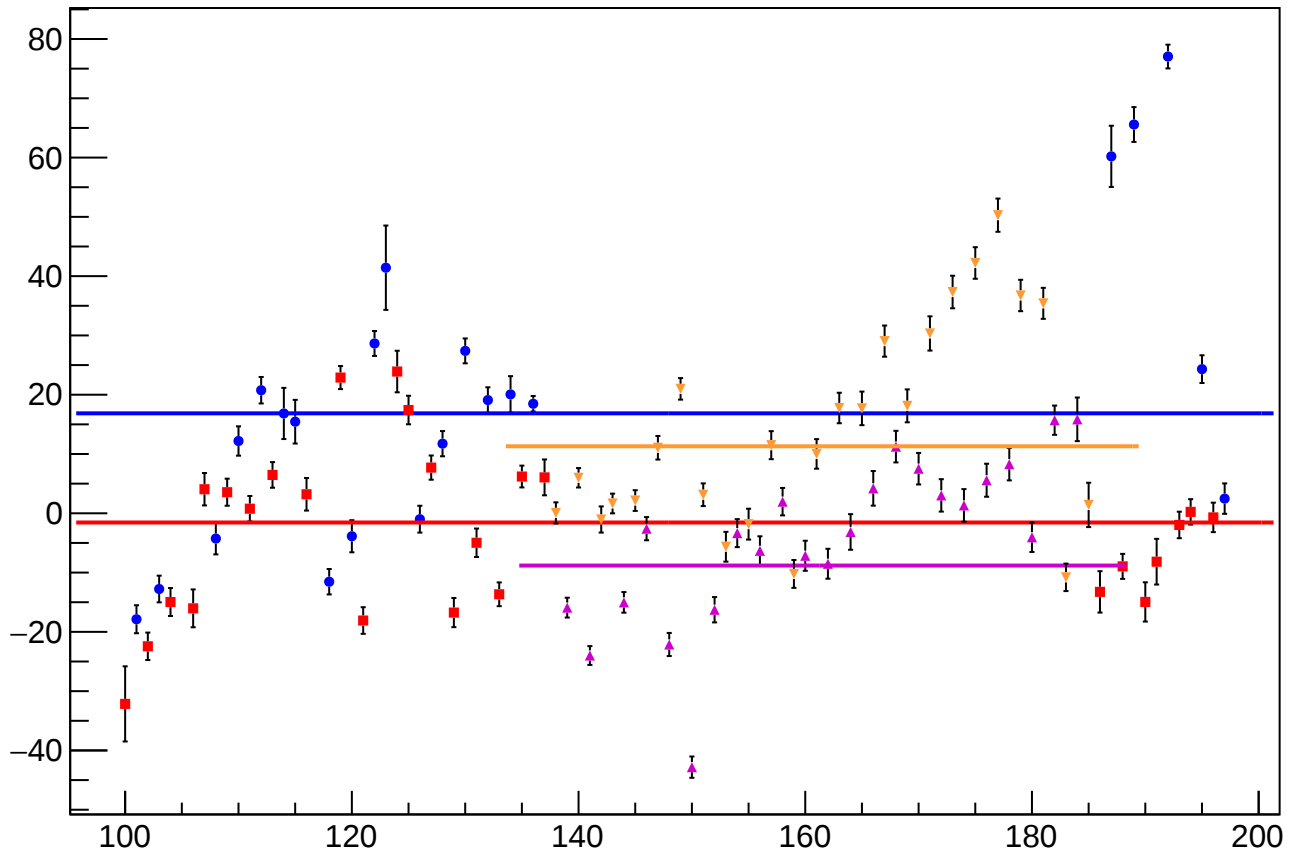
Right: 3118.973 $\pm$ 0.480 χ^2 /NDF: 22757.0/47

In: 3239.088 $\pm$ 0.440 χ^2 /NDF:349696.7/44

Out: 3238.782 $\pm$ 0.421 χ^2 /NDF:402648.7/50

All: 3238.928 $\pm$ 0.304 χ^2 /NDF: 752345.6/95

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 16.861 ± 0.507 $\chi^2/\text{NDF}: 2123.7/21$

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 $\chi^2/\text{NDF}: 3023.6/47$

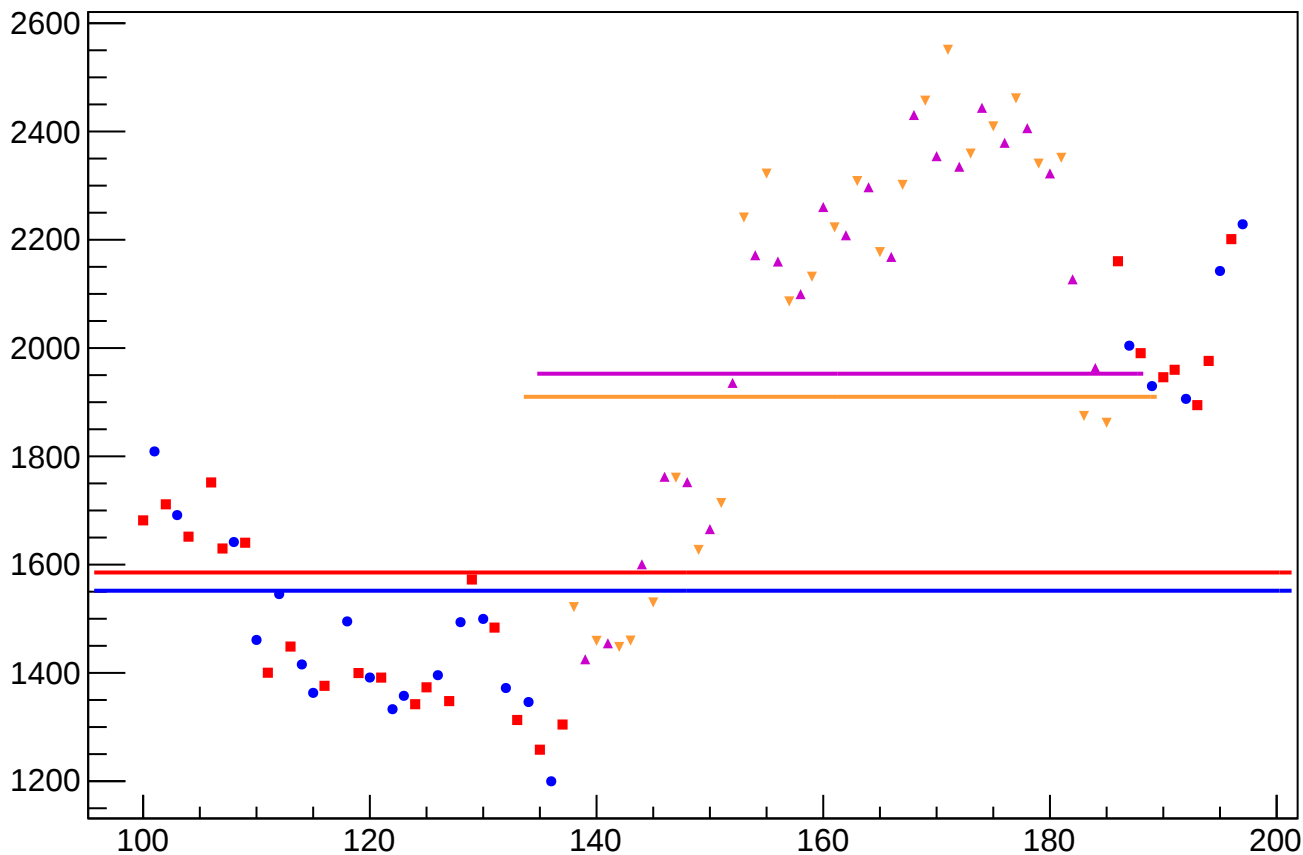
Right: 7.121 ± 0.348 $\chi^2/\text{NDF}: 3499.6/47$

In: 3.207 ± 0.347 $\chi^2/\text{NDF}: 4431.9/44$

Out: 5.210 ± 0.329 $\chi^2/\text{NDF}: 2201.9/50$

All: 4.260 ± 0.239 $\chi^2/\text{NDF}: 6651.3/95$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1551.793 $\pm$ 0.358 χ^2 /NDF: 633306.2/21

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

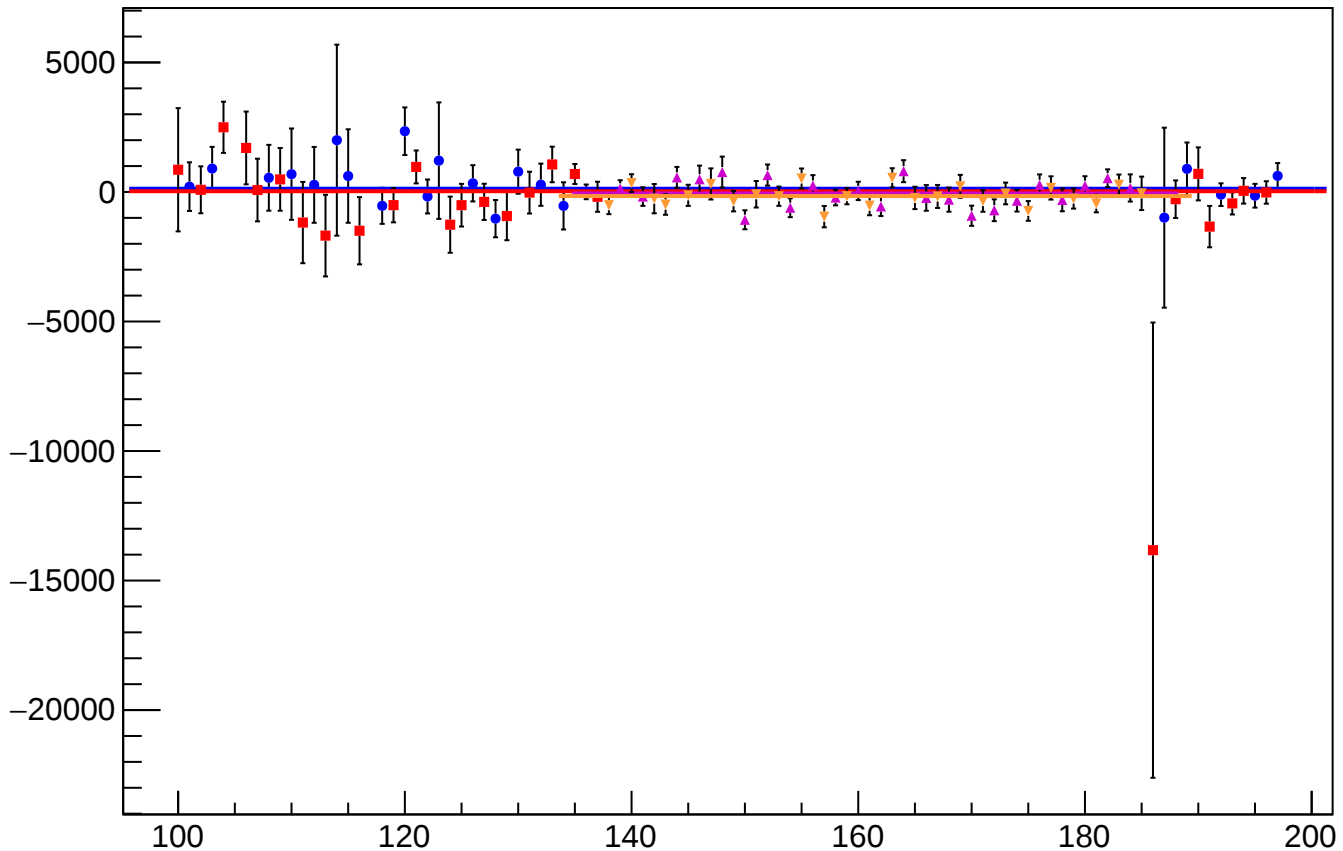
Right: 1569.603 $\pm$ 0.246 χ^2 /NDF: 1292430.5/47

In: 1764.956 $\pm$ 0.245 χ^2 /NDF:2364474.1/44

Out: 1756.131 $\pm$ 0.233 χ^2 /NDF:2538616.4/50

All: 1760.315 $\pm$ 0.169 χ^2 /NDF: 4903772.3/95

asym_sam1_mean vs Slug, Sign Corrected



Right In: 125.220+/-147.804 χ^2/NDF : 14.9/21

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 29.032+/-143.413 χ^2/NDF : 29.8/25

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

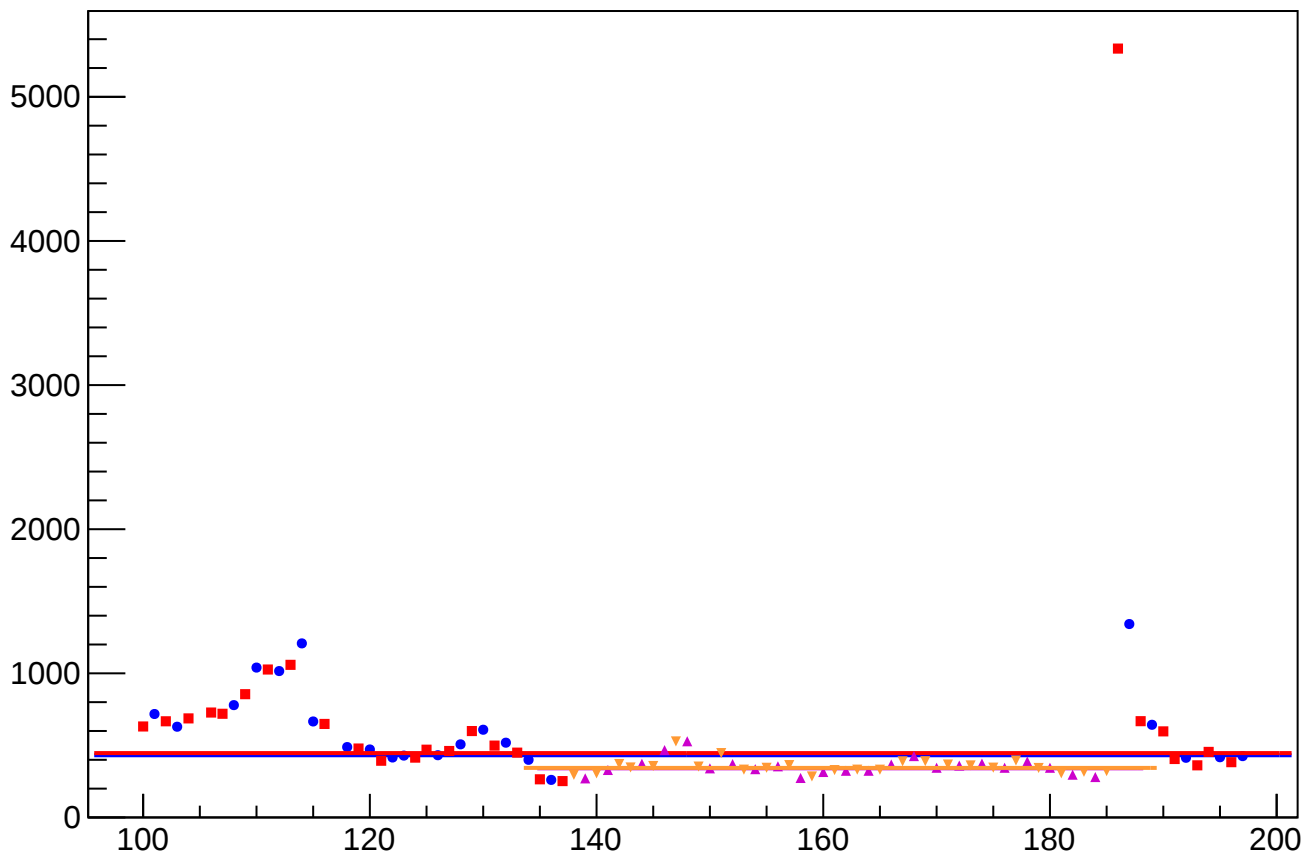
Right: 75.676+/-102.926 χ^2/NDF : 44.9/47

In: -15.120+/-72.094 χ^2/NDF :54.6/44

Out: -112.364+/-70.393 χ^2/NDF :53.1/50

All: -64.903+/-50.366 χ^2/NDF : 108.6/95

asym_sam1_rms vs Slug, Sign Corrected



Right In: 431.607 $\pm$ 0.105 χ^2 /NDF: 2236779.6/21

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

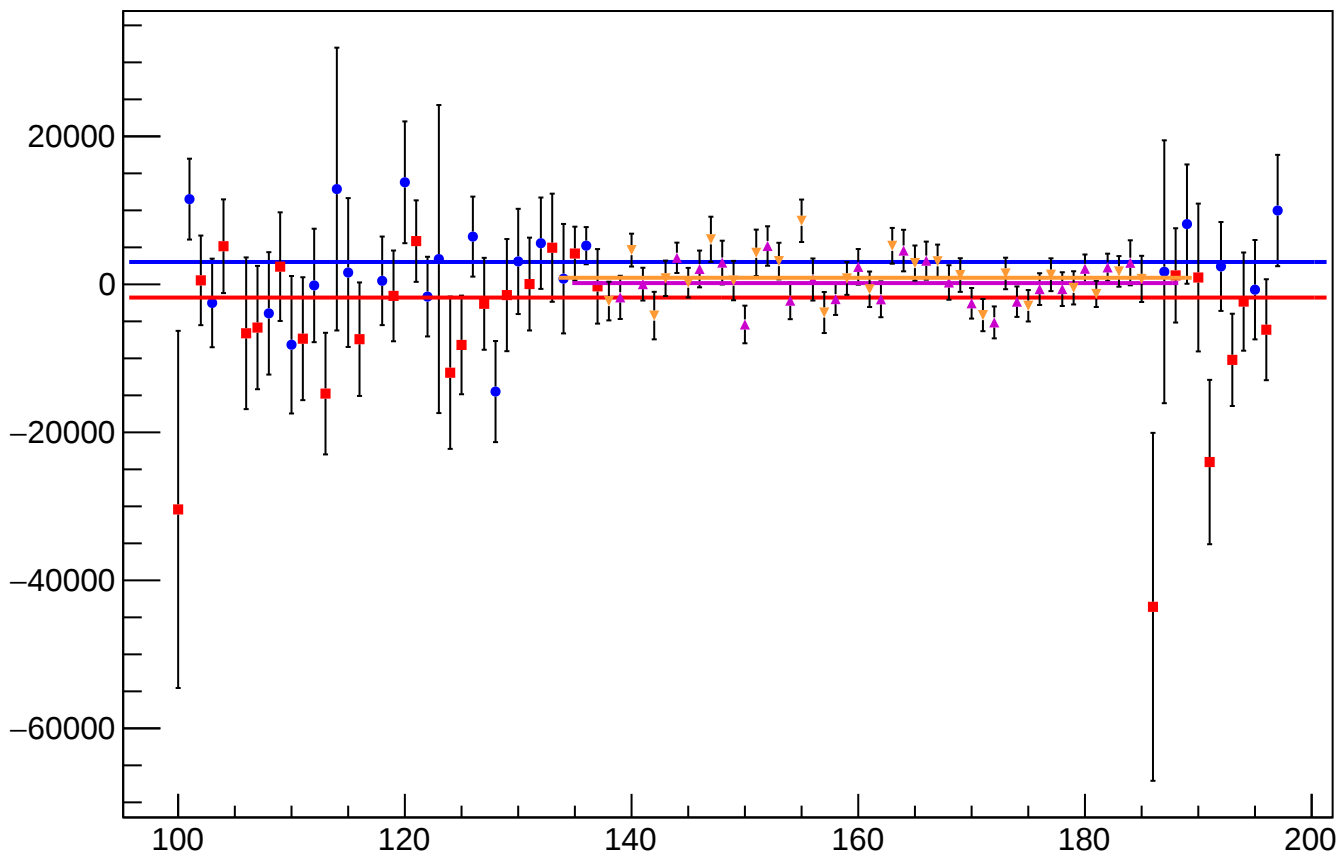
Right: 439.376 $\pm$ 0.073 χ^2 /NDF: 5258858.8/47

In: 362.463 $\pm$ 0.051 χ^2 /NDF: 3535789.2/44

Out: 368.594 $\pm$ 0.050 χ^2 /NDF: 4332113.6/50

All: 365.602 $\pm$ 0.036 χ^2 /NDF: 7875309.2/95

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3025.017+/-1334.811 χ^2/NDF : 18.1/21

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

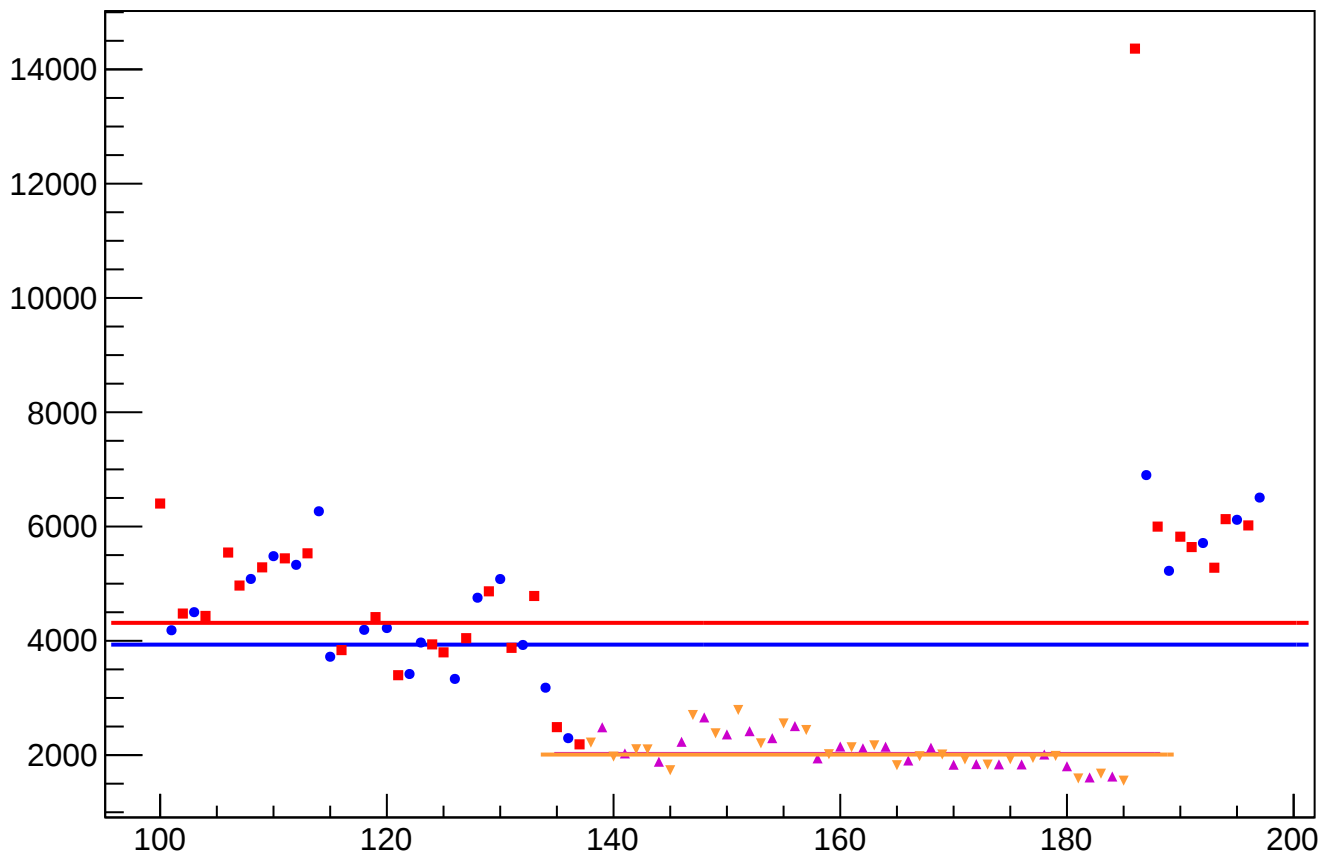
Right: 641.545+/-947.953 χ^2/NDF : 48.8/47

In: 508.800+/-458.386 χ^2/NDF : 55.3/44

Out: 596.356+/-446.486 χ^2/NDF : 65.7/50

All: 553.729+/-319.837 χ^2/NDF : 121.1/95

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3933.338 $\pm$ 0.944 χ^2 /NDF: 1941545.3/21

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4314.400 $\pm$ 0.952 χ^2 /NDF: 2048411.7/25

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

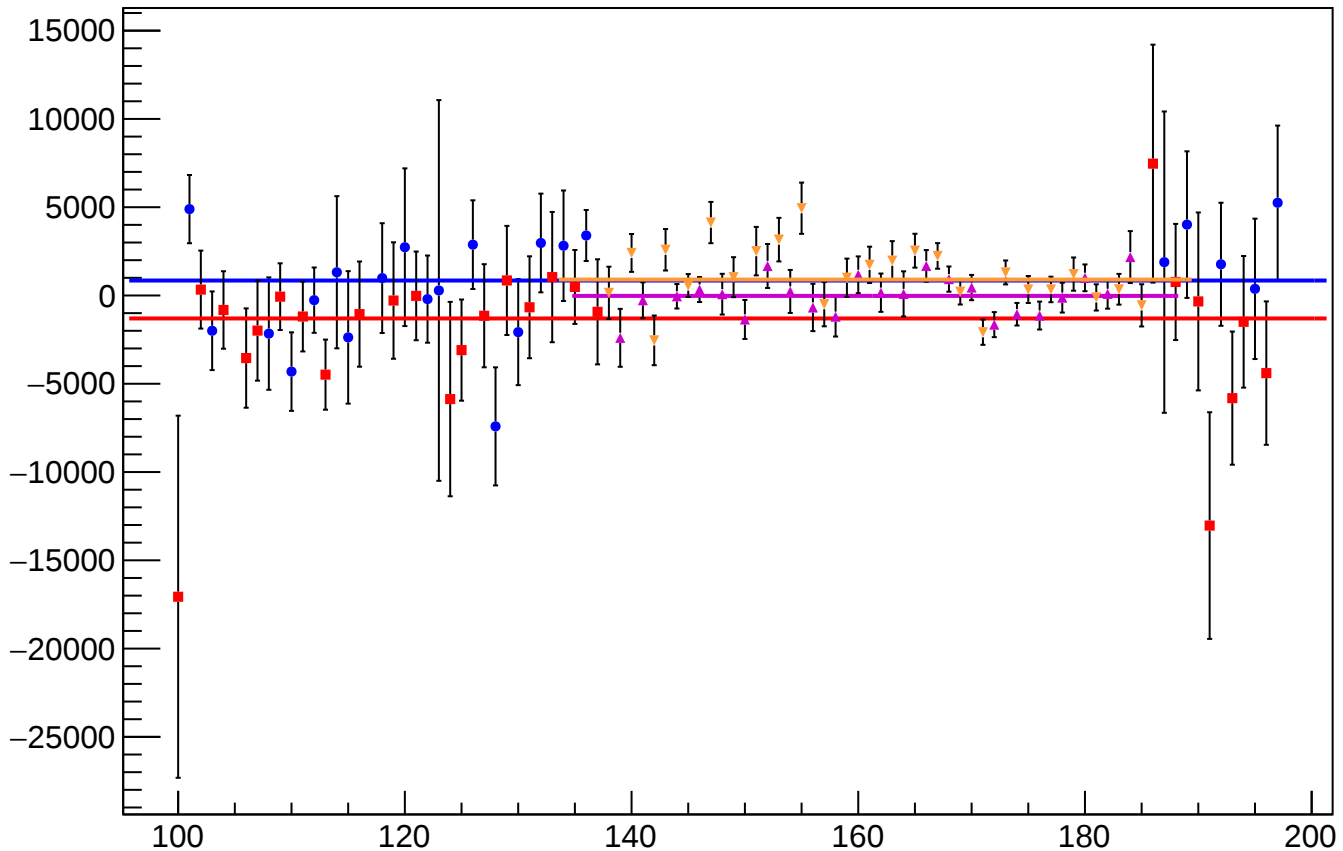
Right: 4122.210 $\pm$ 0.670 χ^2 /NDF: 4070746.5/47

In: 2245.962 $\pm$ 0.324 χ^2 /NDF: 6138386.8/44

Out: 2263.052 $\pm$ 0.316 χ^2 /NDF: 7973891.7/50

All: 2254.731 $\pm$ 0.226 χ^2 /NDF: 14113705.1/95

asym_sam3_mean vs Slug, Sign Corrected



Right In: 847.393 $\pm$ 592.325 χ^2/NDF : 27.2/21

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

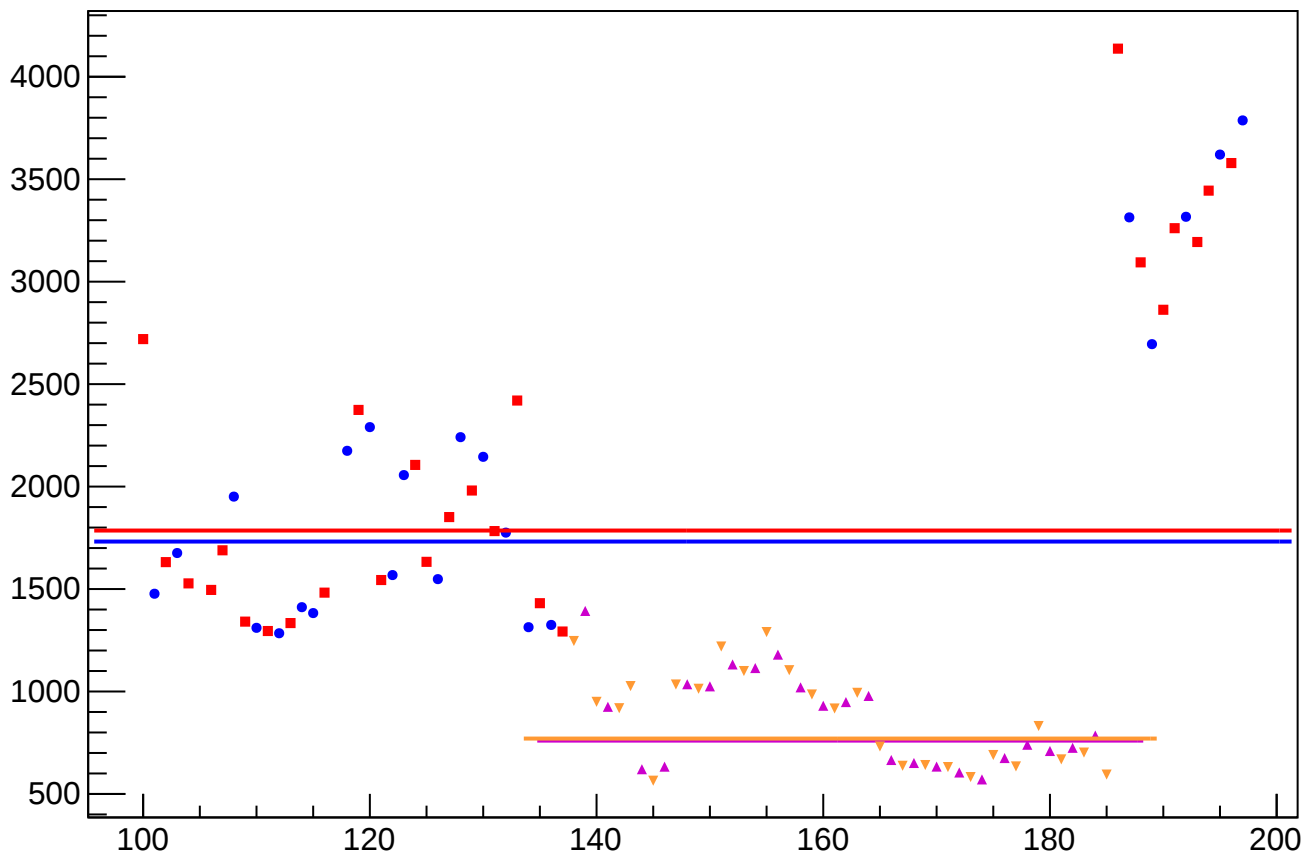
Right: -275.450 $\pm$ 409.302 χ^2/NDF : 51.4/47

In: 56.282 $\pm$ 179.309 χ^2/NDF : 57.4/44

Out: 687.783 $\pm$ 176.582 χ^2/NDF : 94.5/50

All: 376.871 $\pm$ 125.815 χ^2/NDF : 158.2/95

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1731.754+/-0.419 χ^2/NDF : 2118193.3/21

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1785.486+/-0.400 χ^2/NDF : 2532471.7/25

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

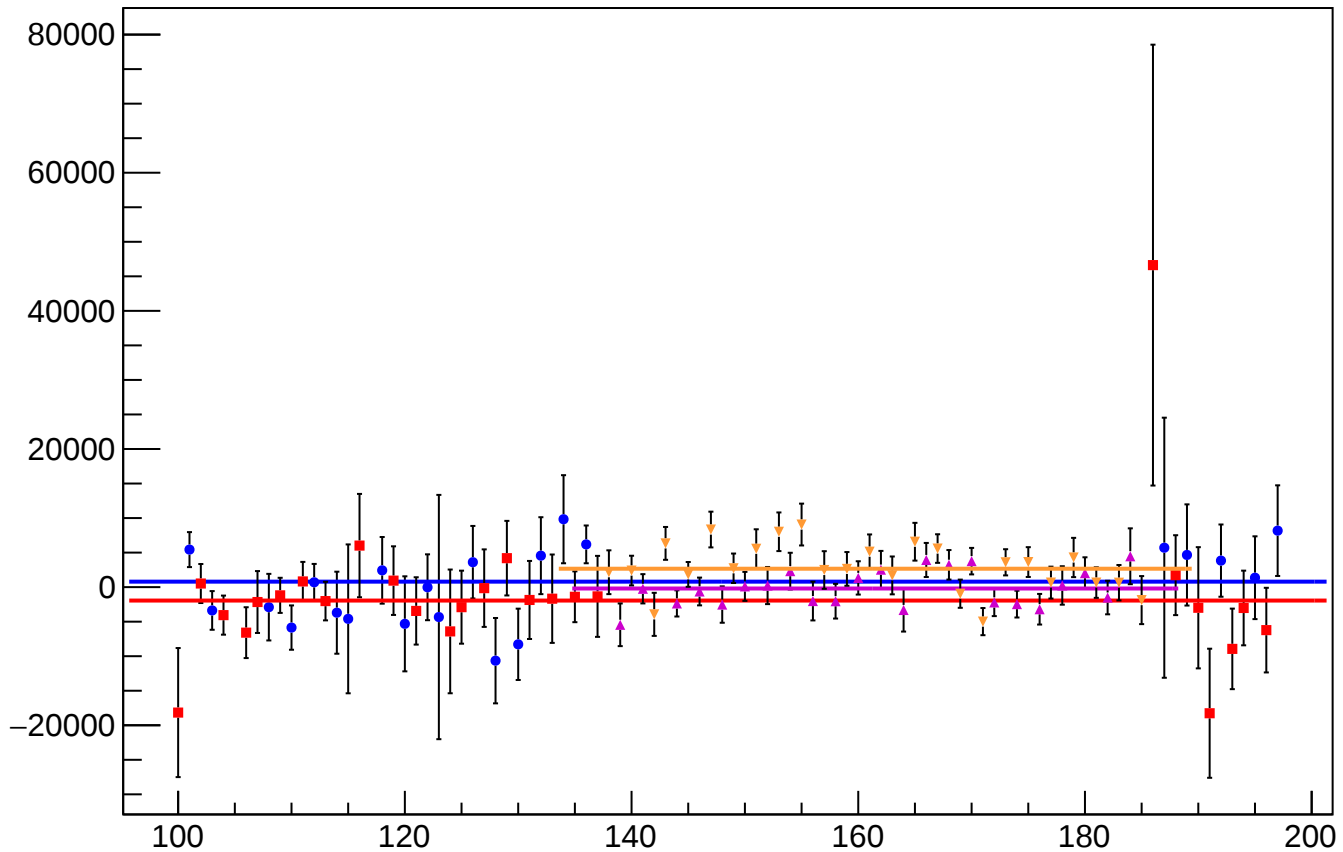
Right: 1759.829+/-0.289 χ^2/NDF : 4659264.6/47

In: 849.371+/-0.127 χ^2/NDF : 8991081.7/44

Out: 869.046+/-0.125 χ^2/NDF : 10623405.5/50

All: 859.359+/-0.089 χ^2/NDF : 19626711.7/95

asym_sam4_mean vs Slug, Sign Corrected



Right In: 794.113+/-947.877 χ^2/NDF : 27.4/21

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -1943.509+/-872.917 χ^2/NDF : 18.0/25

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

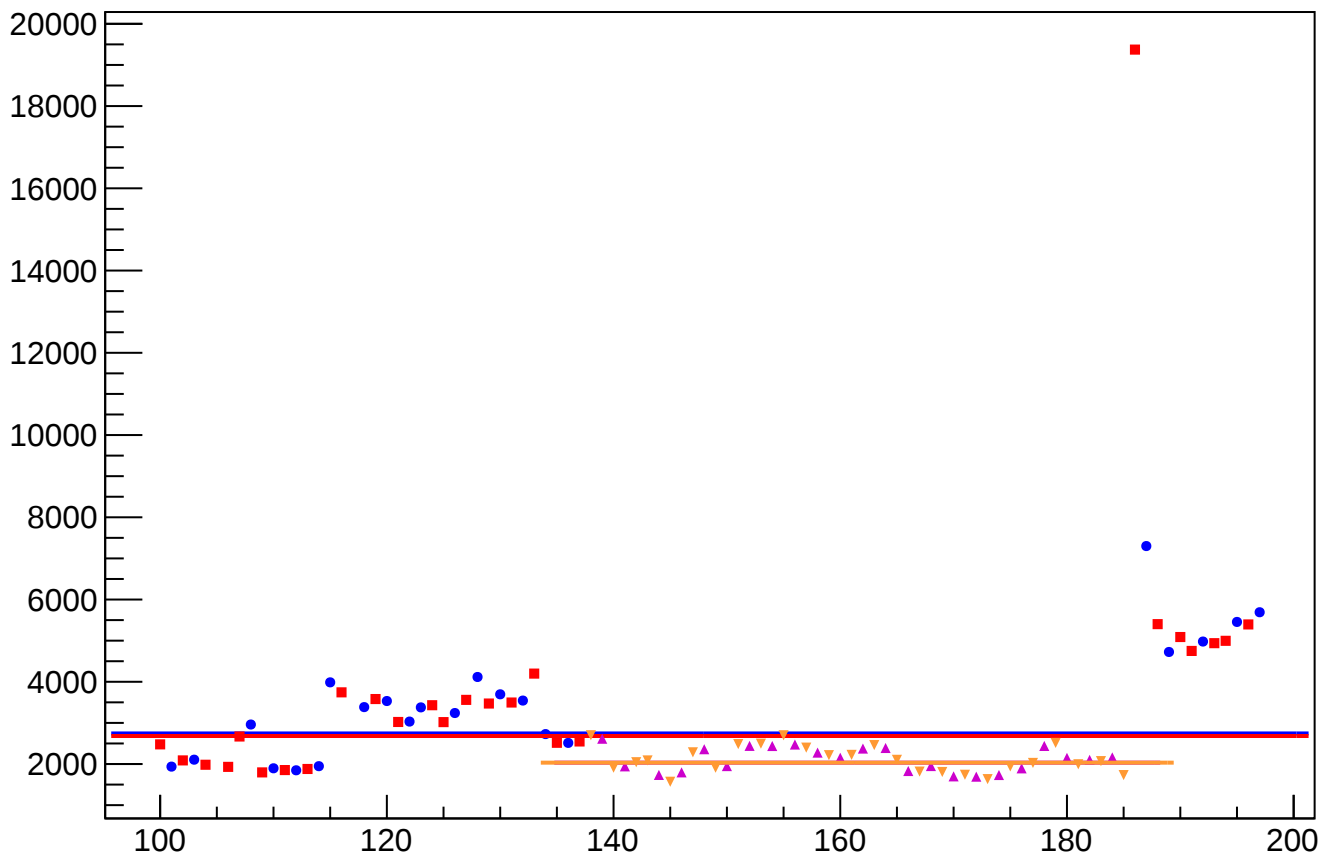
Right: -687.213+/-642.113 χ^2/NDF : 49.9/47

In: 11.539+/-436.737 χ^2/NDF : 54.1/44

Out: 1596.278+/-420.452 χ^2/NDF : 88.6/50

All: 834.004+/-302.898 χ^2/NDF : 149.5/95

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2743.602 $\pm$ 0.670 χ^2 /NDF: 2493004.5/21

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

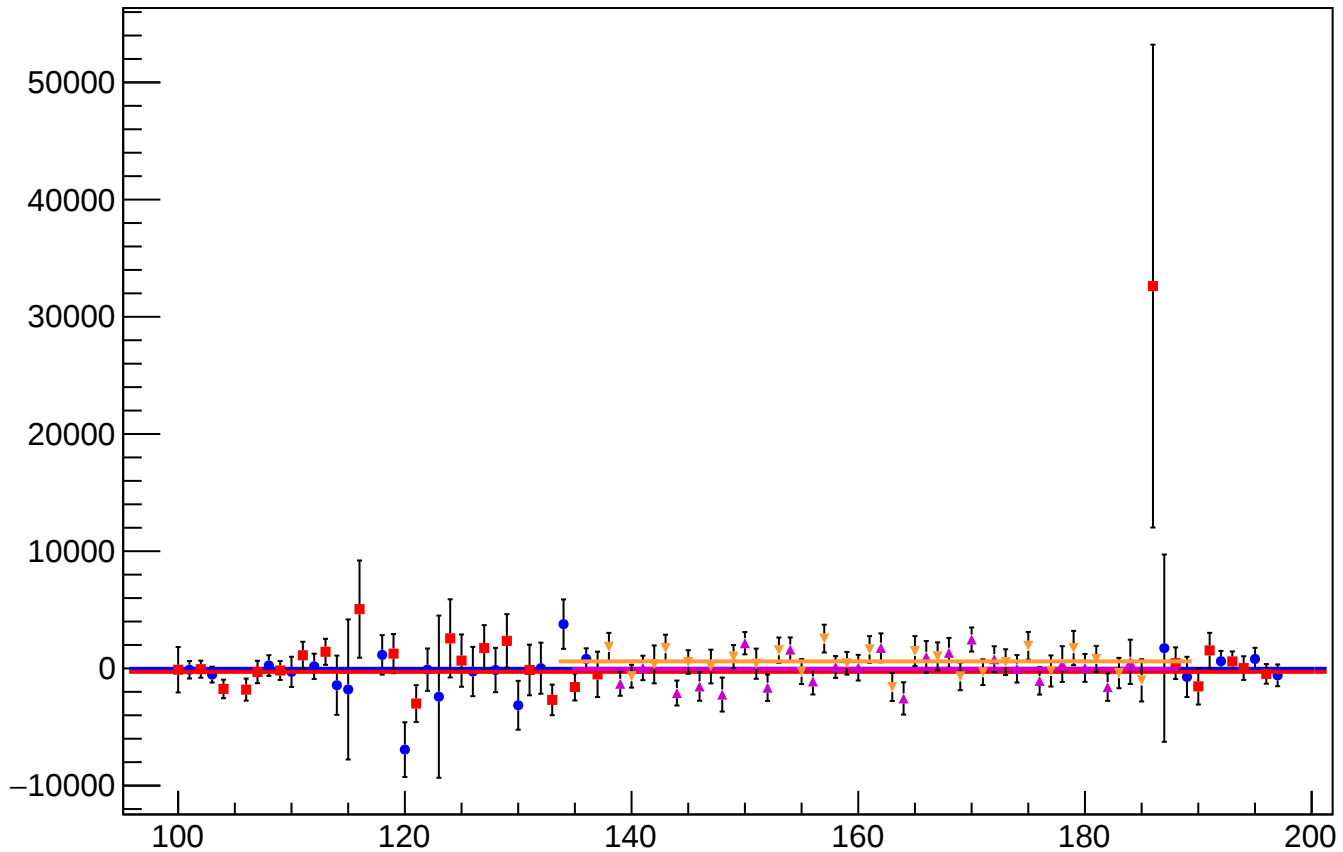
Right: 2709.960 $\pm$ 0.454 χ^2 /NDF: 6055940.1/47

In: 2183.584 $\pm$ 0.309 χ^2 /NDF: 4032036.9/44

Out: 2183.694 $\pm$ 0.297 χ^2 /NDF: 5229021.3/50

All: 2183.641 $\pm$ 0.214 χ^2 /NDF: 9261058.3/95

asym_sam5_mean vs Slug, Sign Corrected



Right In: -34.112 $\pm$ 266.522 χ^2/NDF : 18.8/21

Left Out: 600.005 $\pm$ 234.968 χ^2/NDF : 18.5/24

Right Out: -294.379 $\pm$ 237.805 χ^2/NDF : 29.7/25

Left In: -41.559 $\pm$ 240.807 χ^2/NDF : 36.4/22

Left: 287.096 $\pm$ 168.174 χ^2/NDF : 58.5/47

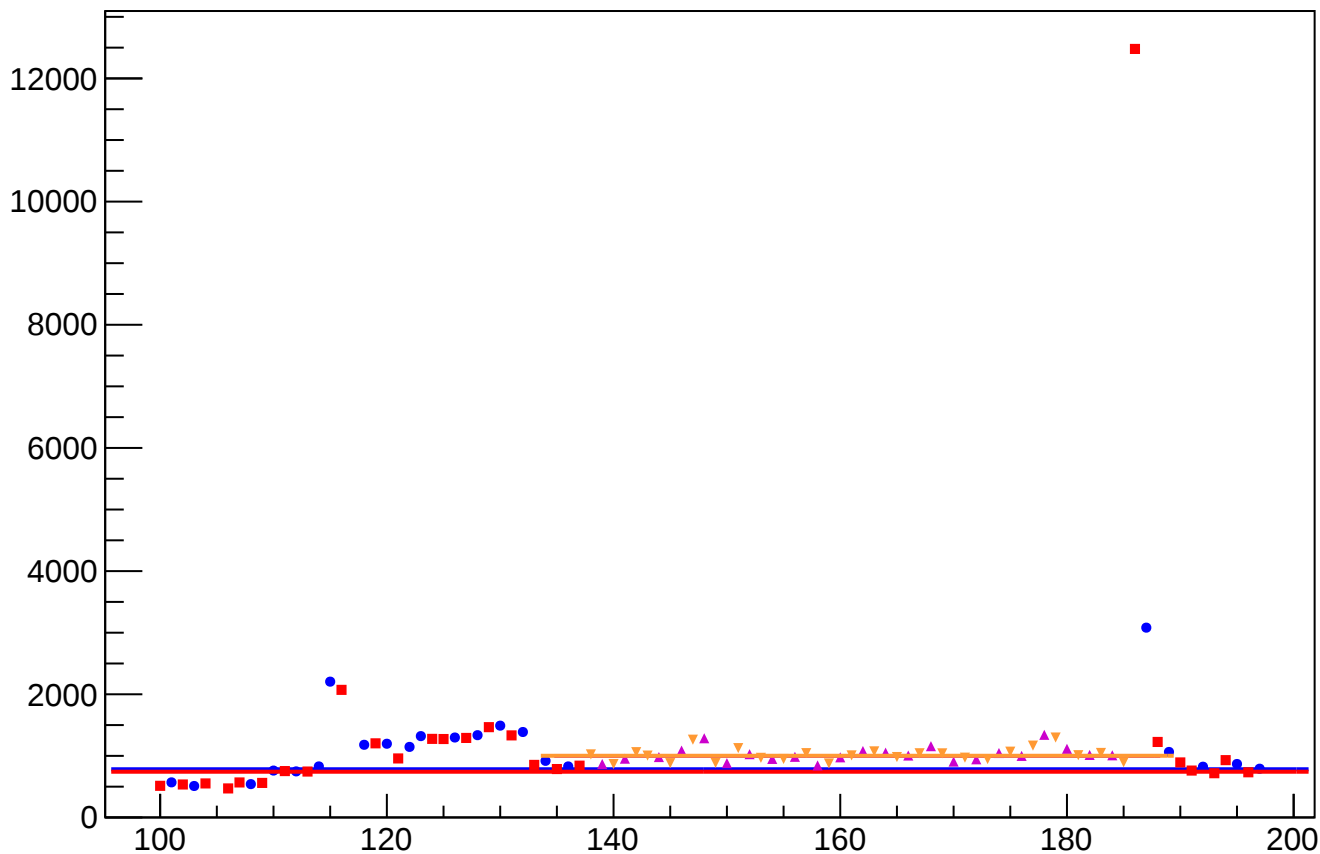
Right: -179.018 $\pm$ 177.441 χ^2/NDF : 49.0/47

In: -38.212 $\pm$ 178.678 χ^2/NDF : 55.1/44

Out: 158.180 $\pm$ 167.141 χ^2/NDF : 55.3/50

All: 66.528 $\pm$ 122.062 χ^2/NDF : 111.1/95

asym_sam5_rms vs Slug, Sign Corrected



Right In: 782.726+/-0.188 χ^2/NDF : 1945475.0/21

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

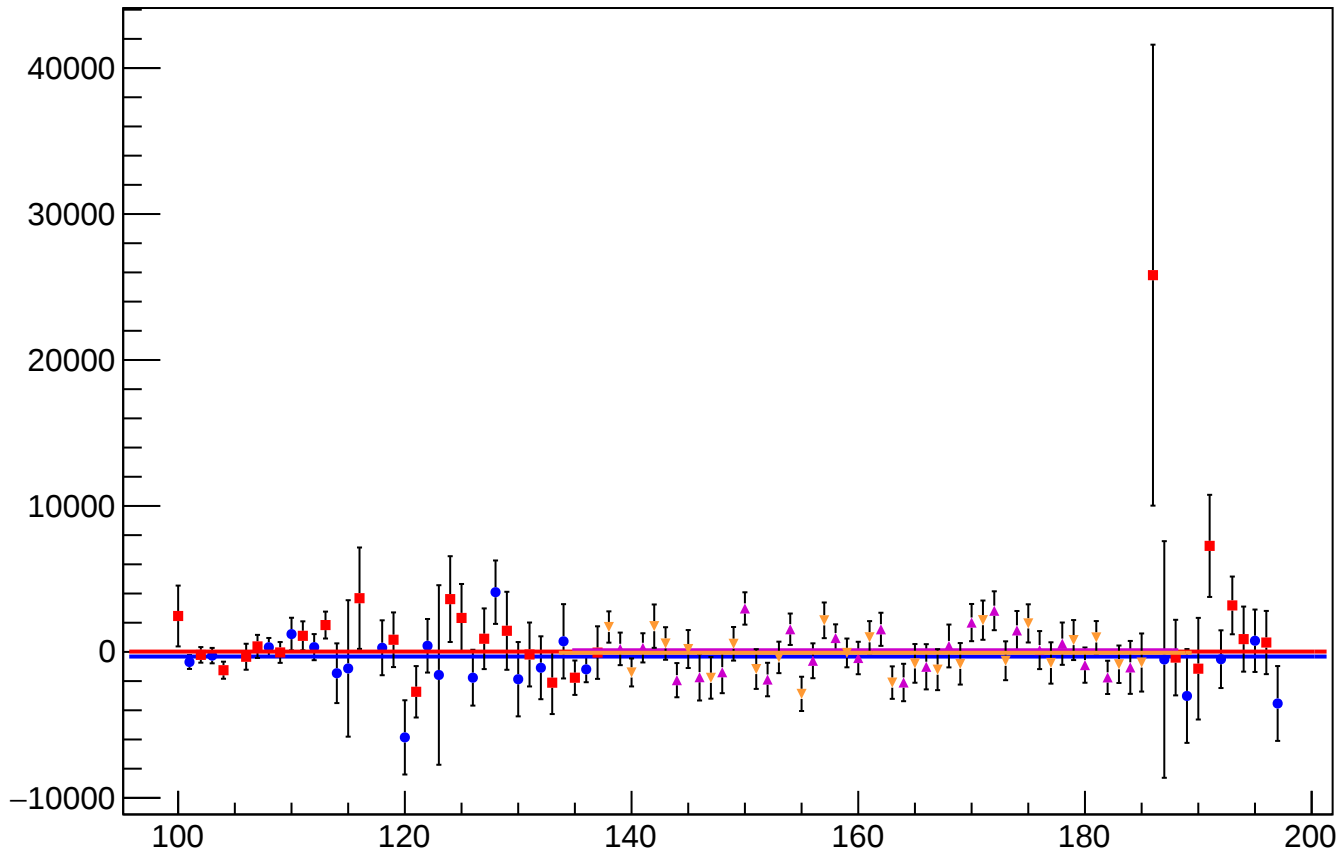
Right: 760.312+/-0.125 χ^2/NDF : 4697947.5/47

In: 901.274+/-0.126 χ^2/NDF : 3068832.1/44

Out: 873.524+/-0.118 χ^2/NDF : 4297837.6/50

All: 886.474+/-0.086 χ^2/NDF : 7392398.9/95

asym_sam6_mean vs Slug, Sign Corrected



Right In: -318.534+/-245.059 χ^2/NDF : 18.4/21

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 22.410+/-239.156 χ^2/NDF : 31.6/25

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

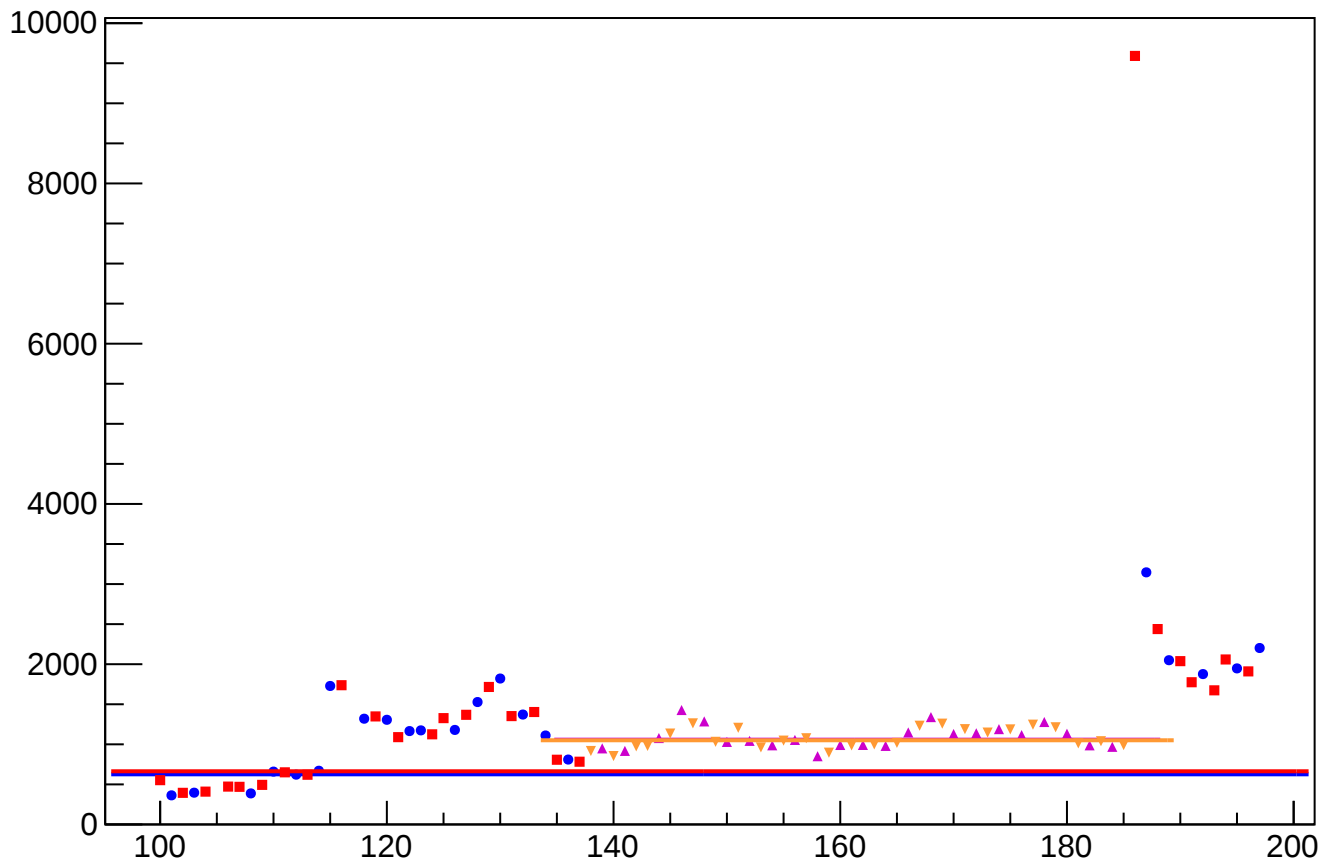
Right: -143.906+/-171.158 χ^2/NDF : 51.0/47

In: -111.977+/-176.829 χ^2/NDF : 54.7/44

Out: -17.465+/-171.648 χ^2/NDF : 62.7/50

All: -63.316+/-123.164 χ^2/NDF : 117.5/95

asym_sam6_rms vs Slug, Sign Corrected



Right In: 625.753 $\pm$ 0.173 χ^2 /NDF: 6251066.4/21

Left Out: 1050.649 $\pm$ 0.174 χ^2 /NDF:483144.2/24

Right Out: 663.733 $\pm$ 0.169 χ^2 /NDF: 7082062.7/25

Left In: 1058.097 $\pm$ 0.181 χ^2 /NDF:528574.7/22

Left: 1054.241 $\pm$ 0.125 χ^2 /NDF: 1012599.4/47

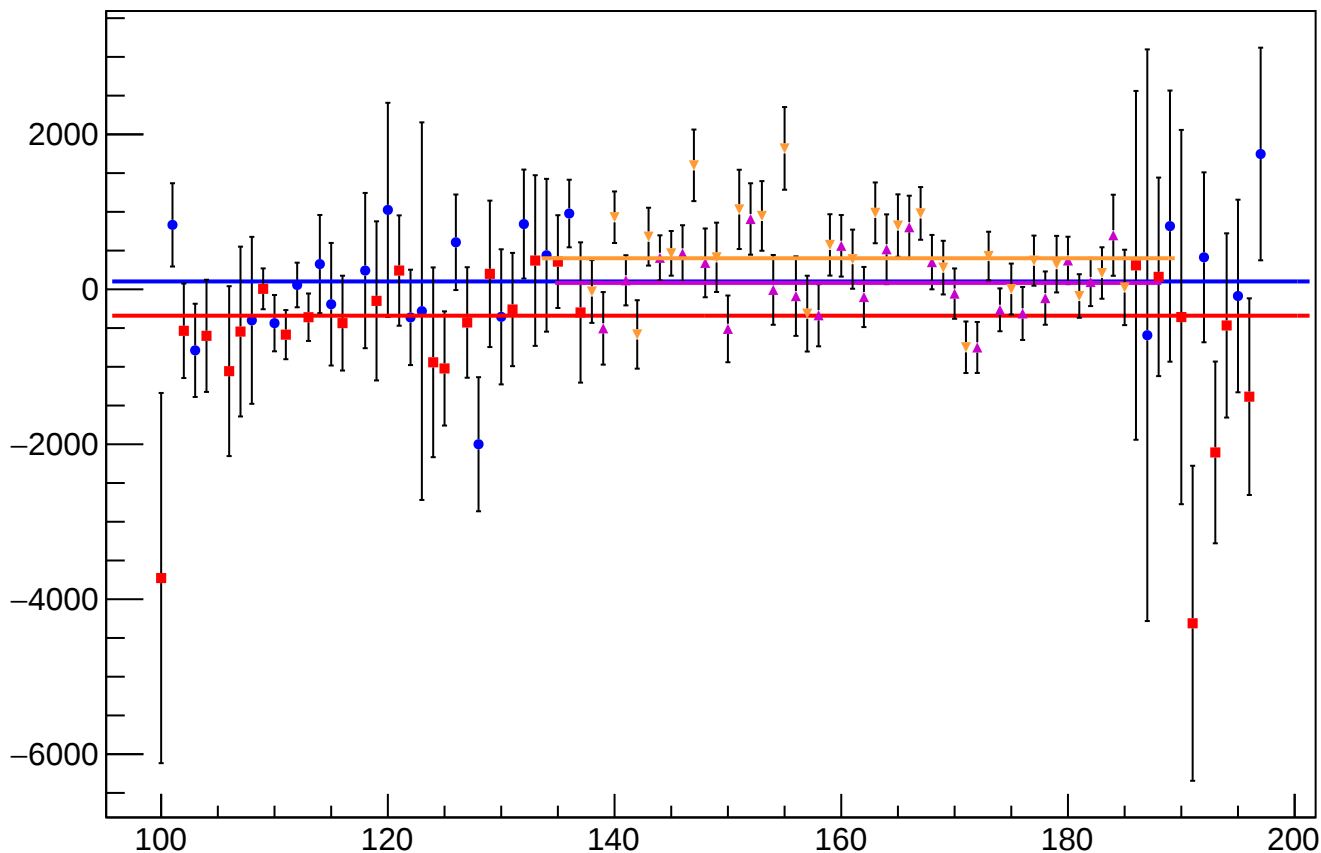
Right: 645.206 $\pm$ 0.121 χ^2 /NDF: 13357733.4/47

In: 832.987 $\pm$ 0.125 χ^2 /NDF:9763510.8/44

Out: 851.339 $\pm$ 0.121 χ^2 /NDF:10103440.6/50

All: 842.436 $\pm$ 0.087 χ^2 /NDF: 19878042.4/95

asym_sam7_mean vs Slug, Sign Corrected



Right In: 101.899 $\pm$ 139.853 χ^2 /NDF: 21.6/21

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF:52.1/24

Right Out: -340.193 $\pm$ 126.374 χ^2 /NDF: 16.0/25

Left In: 82.890 $\pm$ 76.904 χ^2 /NDF:29.0/22

Left: 246.889 $\pm$ 53.526 χ^2 /NDF: 89.9/47

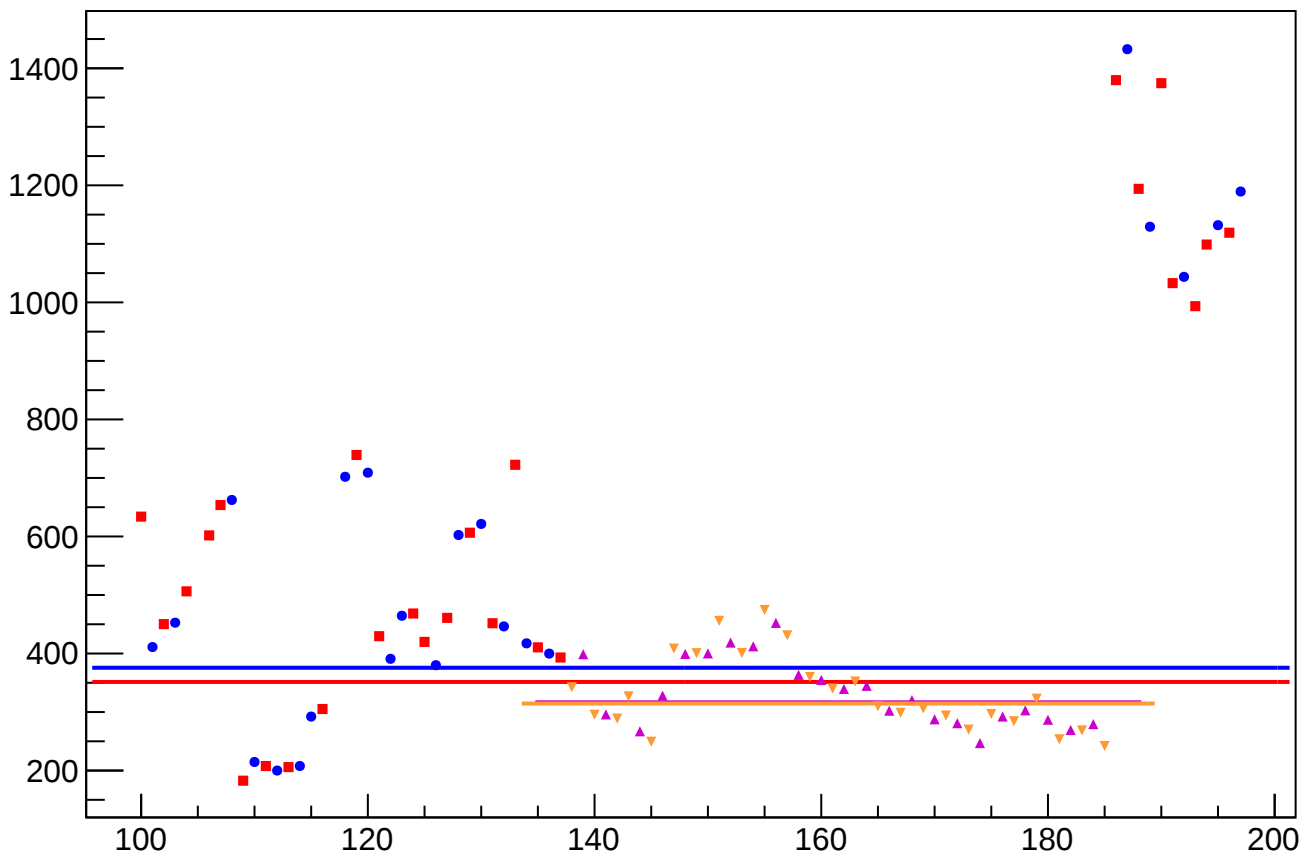
Right: -141.472 $\pm$ 93.764 χ^2 /NDF: 43.1/47

In: 87.303 $\pm$ 67.388 χ^2 /NDF:50.6/44

Out: 209.658 $\pm$ 64.208 χ^2 /NDF:93.6/50

All: 151.436 $\pm$ 46.485 χ^2 /NDF: 145.9/95

asym_sam7_rms vs Slug, Sign Corrected



Right In: 375.667 $\pm$ 0.099 χ^2 /NDF: 4861283.7/21

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 351.436 $\pm$ 0.089 χ^2 /NDF: 6934845.4/25

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

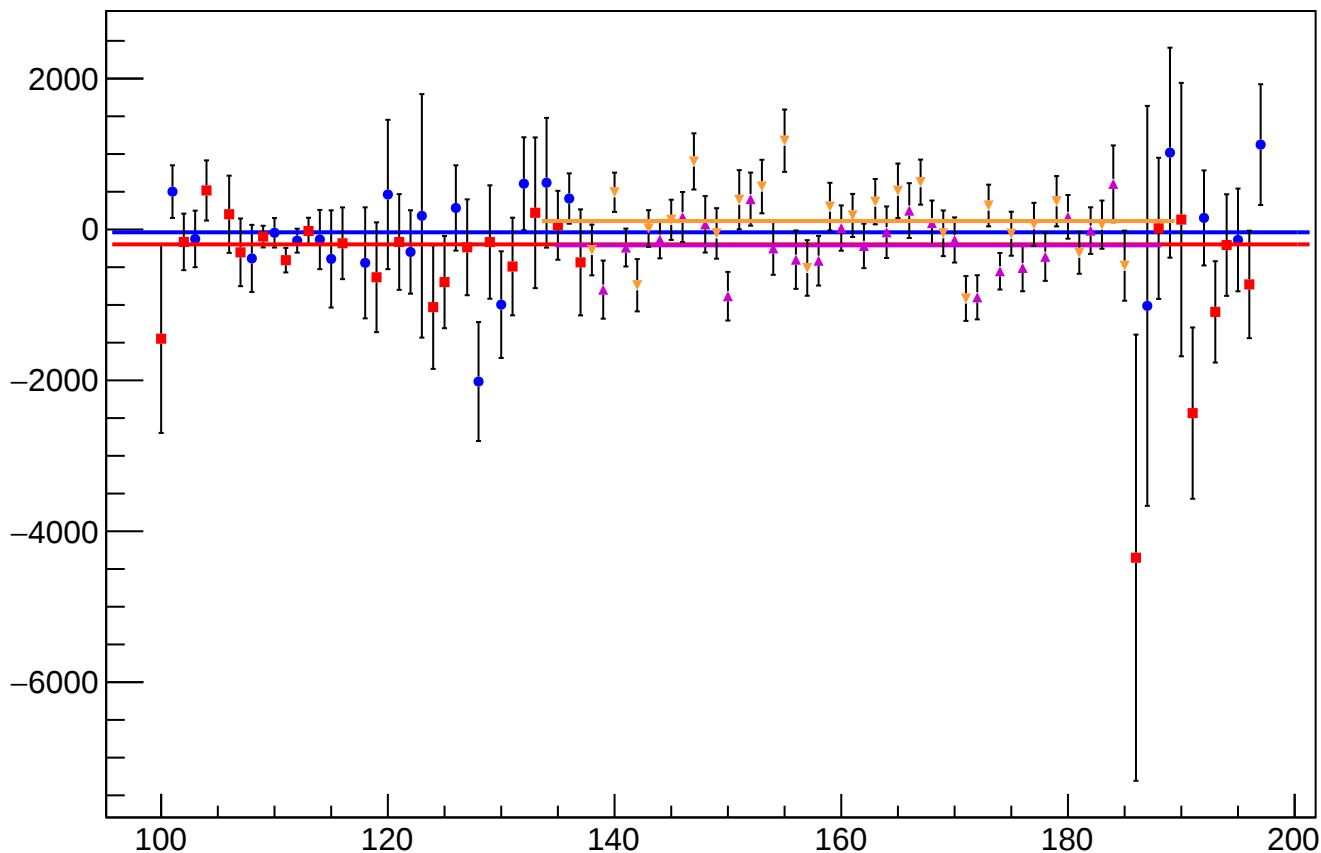
Right: 362.328 $\pm$ 0.066 χ^2 /NDF: 11829179.5/47

In: 330.350 $\pm$ 0.048 χ^2 /NDF: 6055655.7/44

Out: 324.063 $\pm$ 0.045 χ^2 /NDF: 8173778.4/50

All: 327.055 $\pm$ 0.033 χ^2 /NDF: 14238557.8/99

asym_sam8_mean vs Slug, Sign Corrected



Right In: -37.423 ± 88.225 $\chi^2/\text{NDF}: 19.6/21$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -197.457 ± 75.051 $\chi^2/\text{NDF}: 19.2/25$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

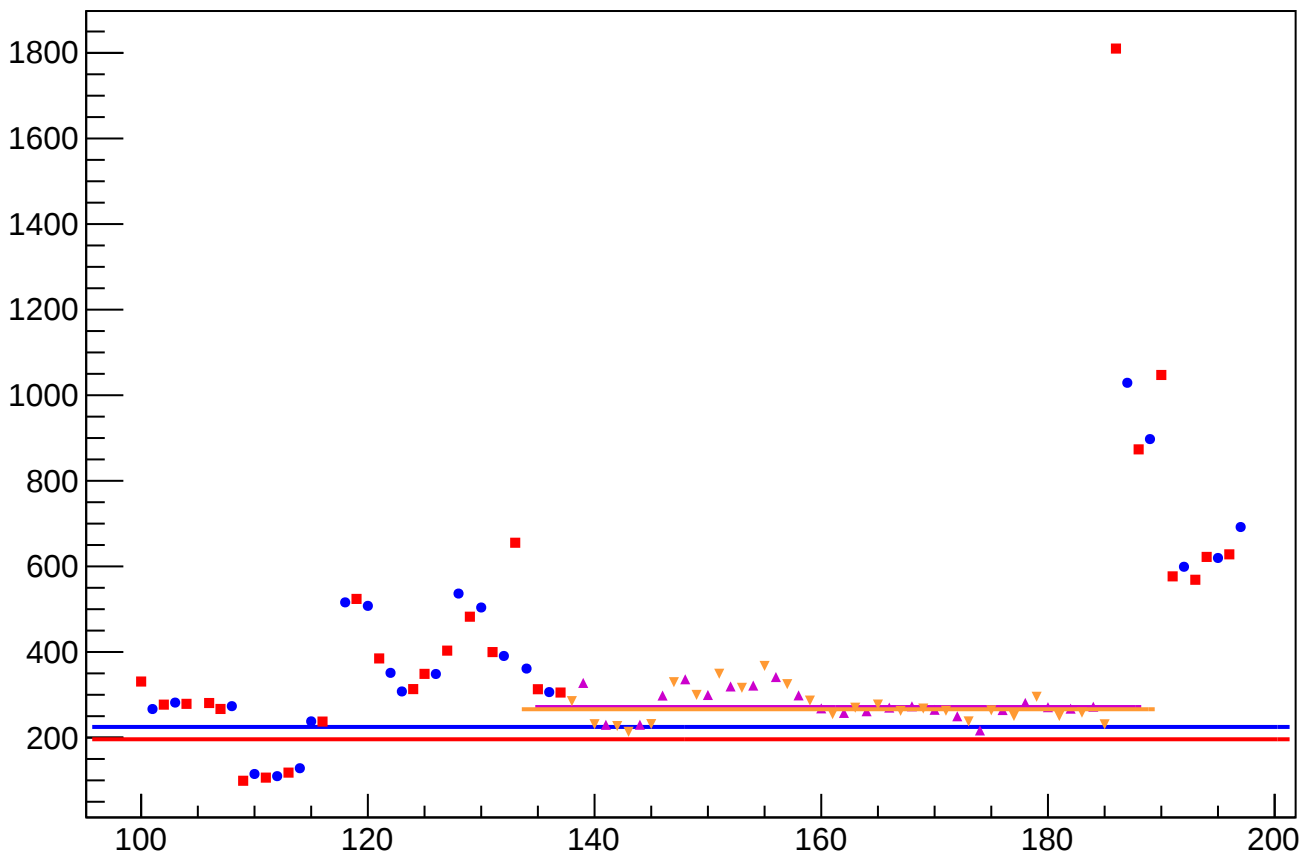
Right: -130.270 ± 57.165 $\chi^2/\text{NDF}: 40.7/47$

In: -148.958 ± 52.596 $\chi^2/\text{NDF}: 51.2/44$

Out: -14.926 ± 48.092 $\chi^2/\text{NDF}: 78.4/50$

All: -75.958 ± 35.492 $\chi^2/\text{NDF}: 133.1/95$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 224.855 $\pm$ 0.062 χ^2/NDF : 6241162.0/21

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

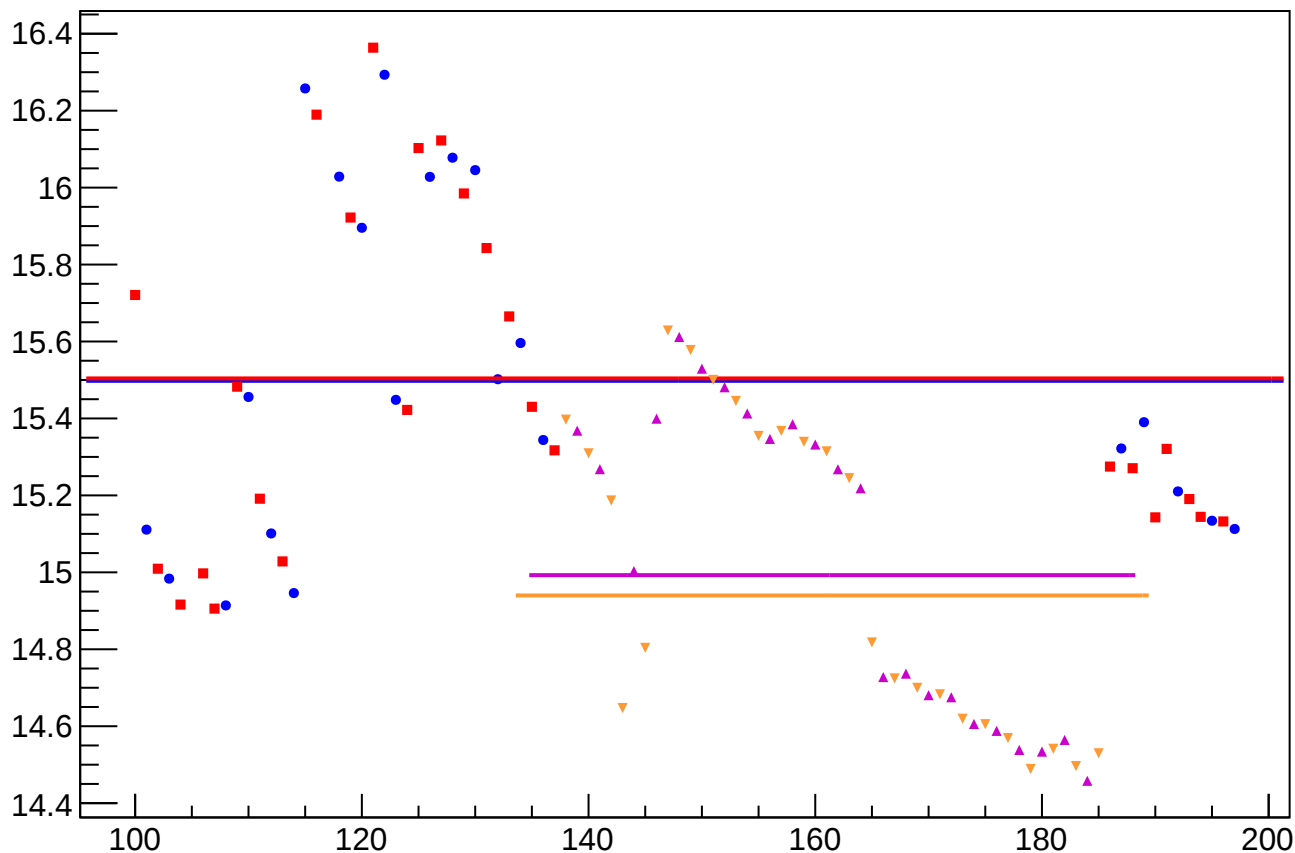
Right: 208.130 $\pm$ 0.040 χ^2/NDF : 15116156.0/47

In: 254.867 $\pm$ 0.037 χ^2/NDF : 7122091.7/44

Out: 237.390 $\pm$ 0.034 χ^2/NDF : 10431457.2/50

All: 245.349 $\pm$ 0.025 χ^2/NDF : 17673822.0/95

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.498 $\pm$ 0.000 χ^2/NDF : 7859258201.5/21

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

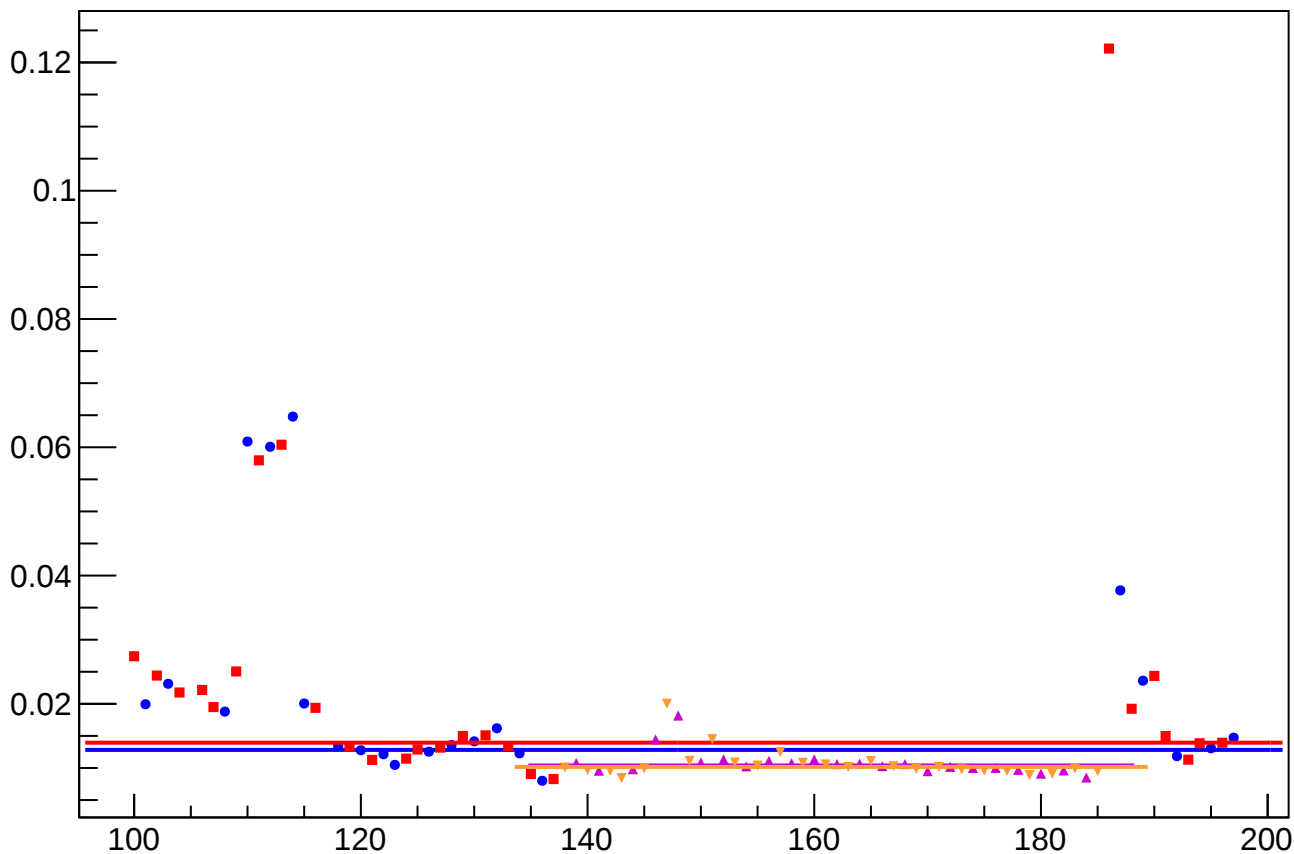
Right: 15.501 $\pm$ 0.000 χ^2/NDF : 16006712843.2/47

In: 15.115 $\pm$ 0.000 χ^2/NDF : 39260958860.5/44

Out: 15.063 $\pm$ 0.000 χ^2/NDF : 43947469804.9/50

All: 15.088 $\pm$ 0.000 χ^2/NDF : 83486470367.9

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2483916.5/21

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2973264.7/25

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

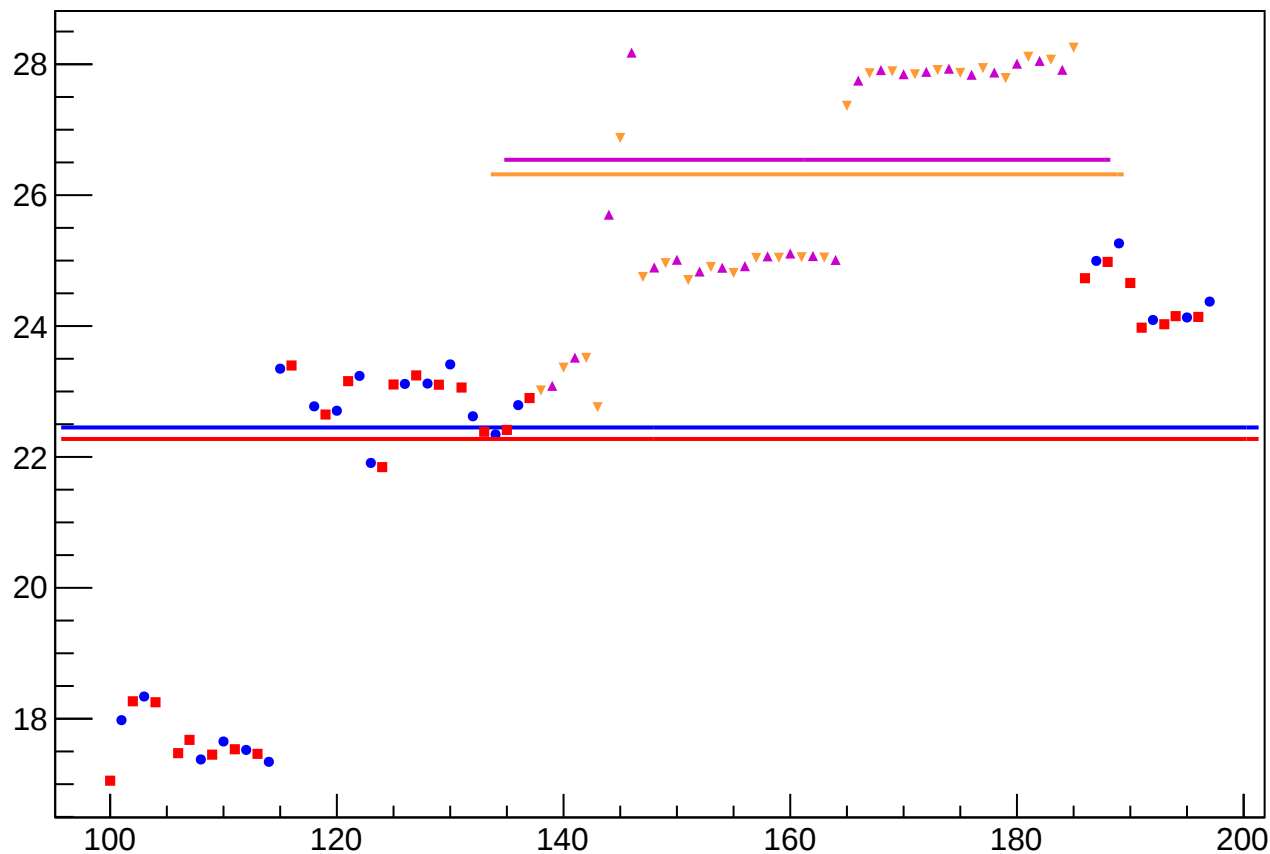
Right: 0.013+/-0.000 χ^2/NDF : 5517355.2/47

In: 0.011+/-0.000 χ^2/NDF : 3459938.9/44

Out: 0.011+/-0.000 χ^2/NDF : 4734329.2/50

All: 0.011+/-0.000 χ^2/NDF : 8194273.9/95

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.451+/-0.000 χ^2/NDF : 1046781262.8/21

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

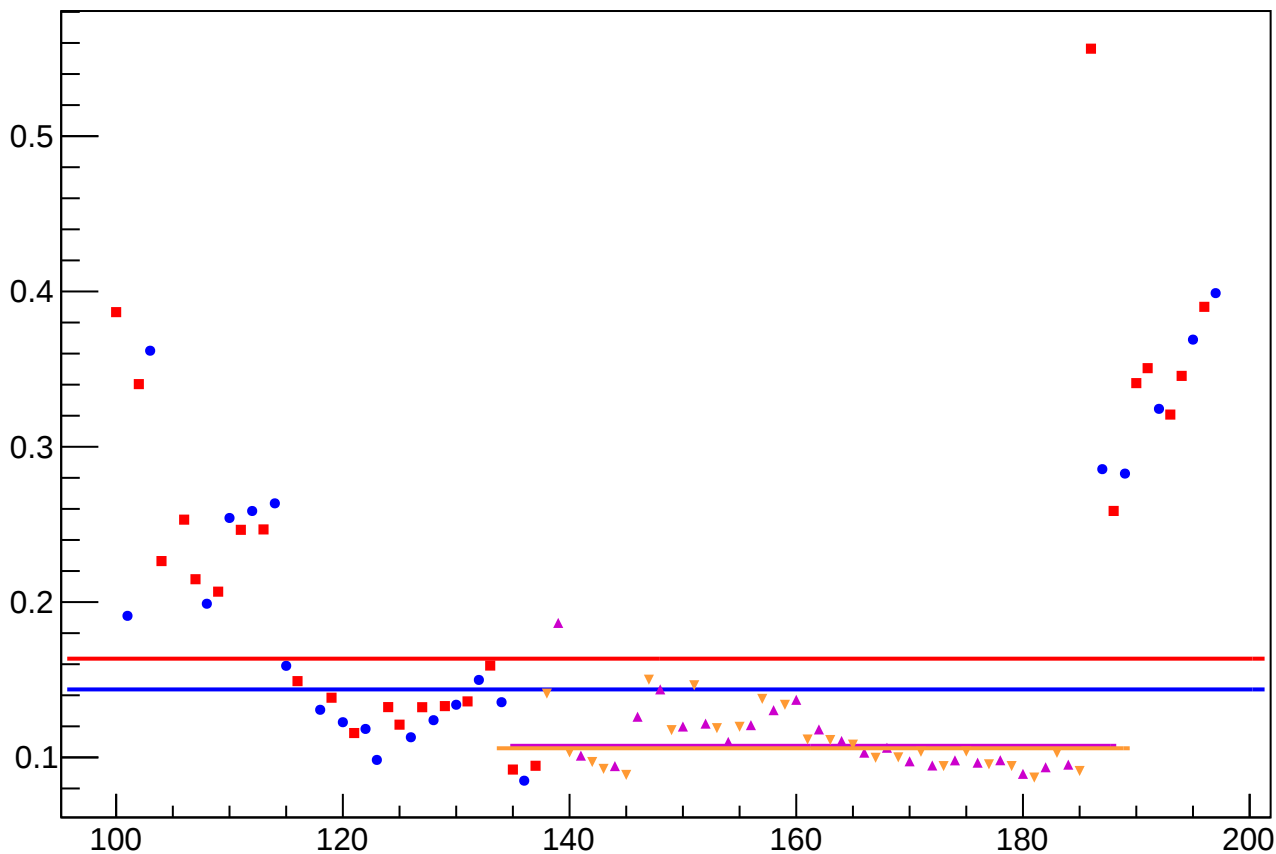
Right: 22.366+/-0.000 χ^2/NDF : 2313166751.1/47

In: 25.697+/-0.000 χ^2/NDF : 8823553094.9/44

Out: 25.584+/-0.000 χ^2/NDF : 10157640424.4/50

All: 25.639+/-0.000 χ^2/NDF : 18991837107.1

yield_sam2_rms vs Slug, Sign Corrected



Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

Right: 0.153+/-0.000 χ^2/NDF : 7783834.7/47

In: 0.115+/-0.000 χ^2/NDF : 5168134.8/44

Out: 0.116+/-0.000 χ^2/NDF : 6399342.5/50

All: 0.116+/-0.000 χ^2/NDF : 11570726.7/95

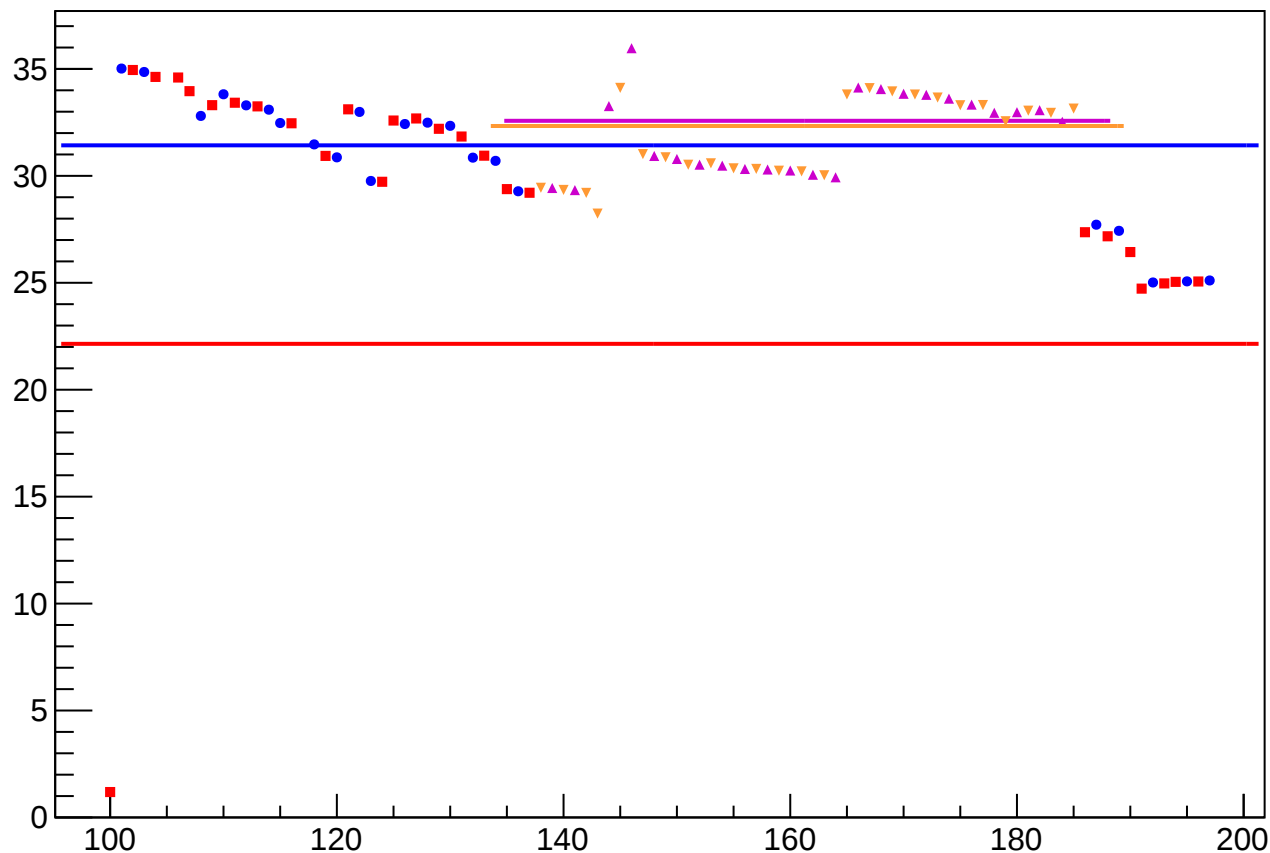
Right In: 0.144+/-0.000 χ^2/NDF : 3693022.2/21

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.164+/-0.000 χ^2/NDF : 3963738.0/25

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.427+/-0.000 χ^2/NDF : 3839729769.0/21

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.145+/-0.000 χ^2/NDF : 230663519453.7/25

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

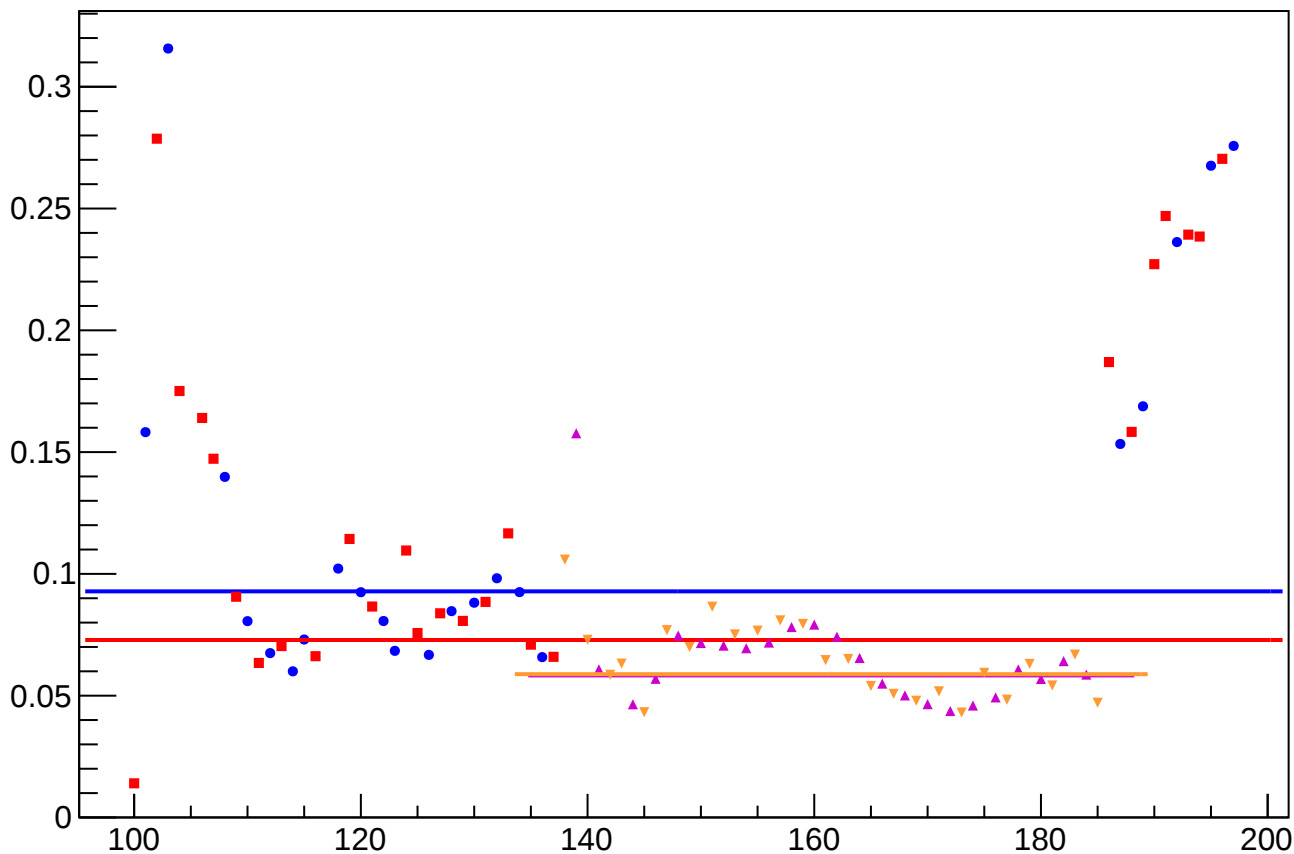
Right: 25.877+/-0.000 χ^2/NDF : 274408259525.8/47

In: 32.385+/-0.000 χ^2/NDF : 16488968283.9/44

Out: 30.095+/-0.000 χ^2/NDF : 336807611163.7/50

All: 31.176+/-0.000 χ^2/NDF : 366288432293.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 3530290.3/21

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.073 $\pm$ 0.000 χ^2 /NDF: 7496531.5/25

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

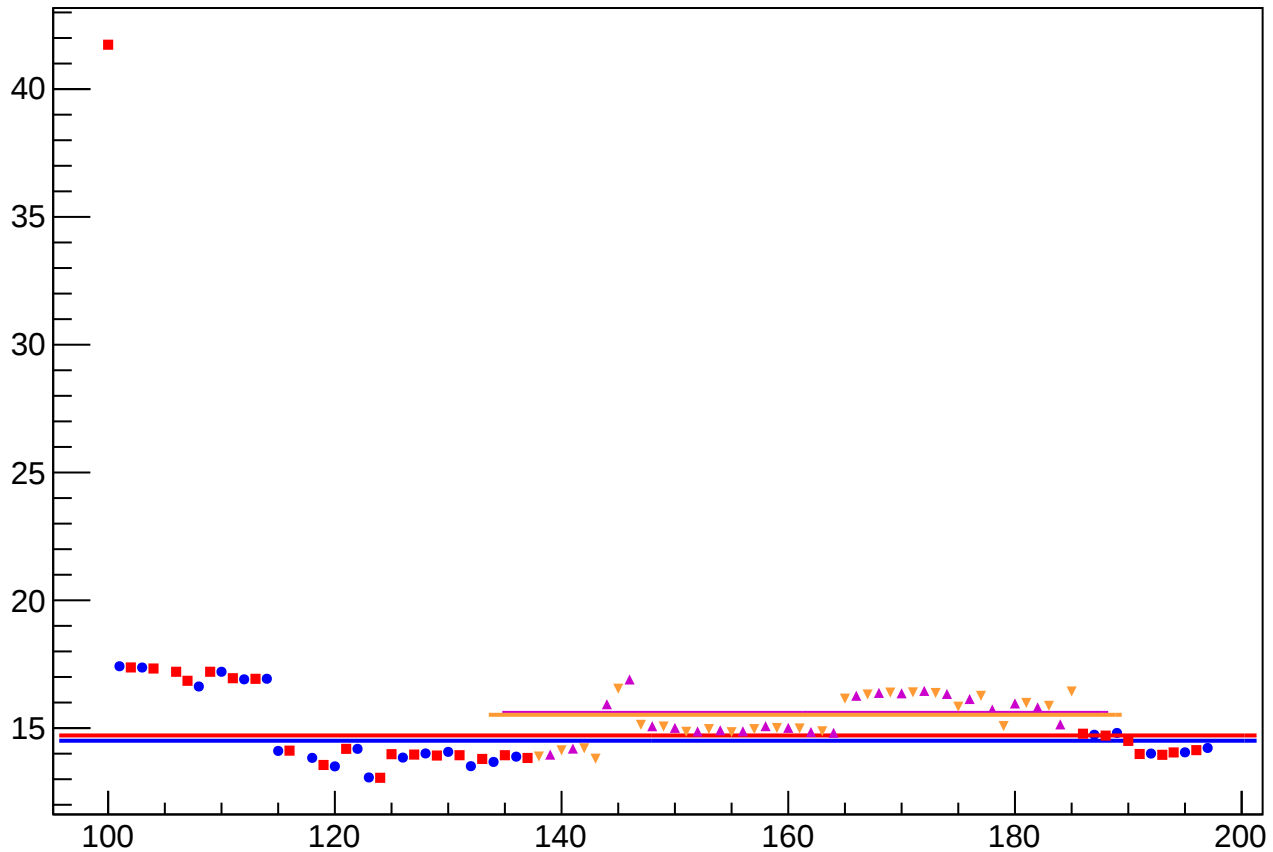
Right: 0.081 $\pm$ 0.000 χ^2 /NDF: 11396144.5/47

In: 0.064 $\pm$ 0.000 χ^2 /NDF:6596575.1/44

Out: 0.062 $\pm$ 0.000 χ^2 /NDF:9253193.2/50

All: 0.063 $\pm$ 0.000 χ^2 /NDF: 15871646.1/95

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.506+/-0.000 χ^2/NDF : 1496545067.4/21

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.712+/-0.000 χ^2/NDF : 1931213244.8/25

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

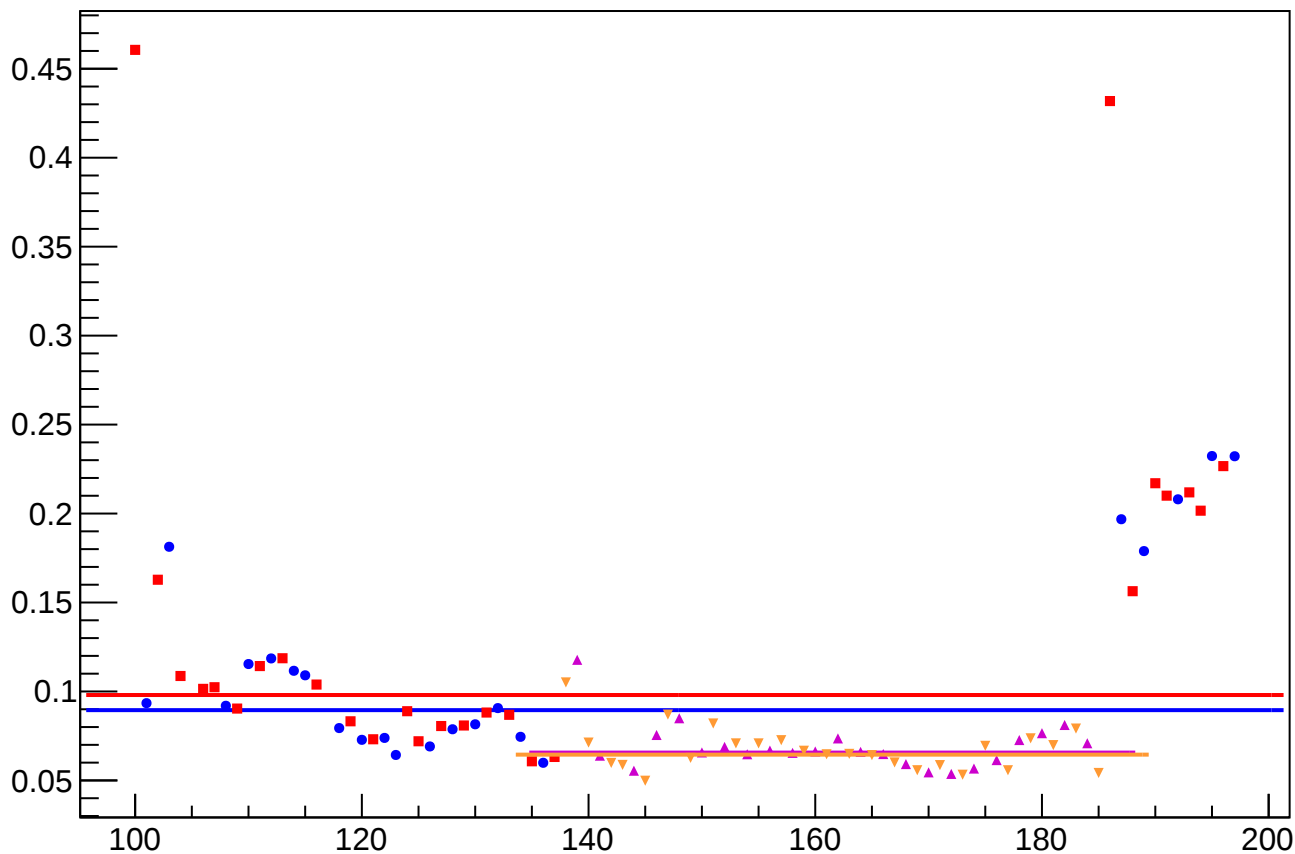
Right: 14.608+/-0.000 χ^2/NDF : 3447257696.5/47

In: 15.364+/-0.000 χ^2/NDF : 4270264473.7/44

Out: 15.364+/-0.000 χ^2/NDF : 4997741914.9/50

All: 15.364+/-0.000 χ^2/NDF : 9268006403.4/99

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.090 $\pm$ 0.000 χ^2 /NDF: 2957608.5/21

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

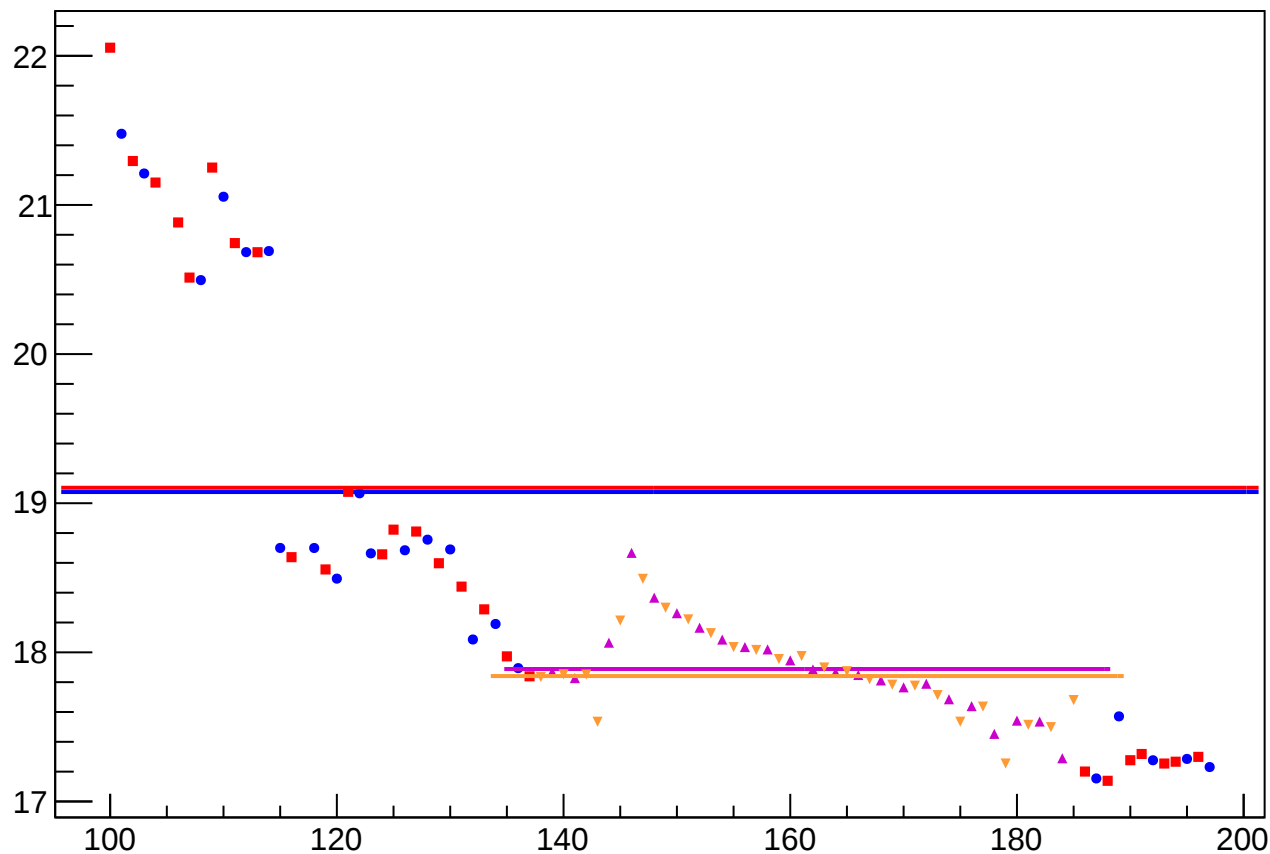
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 6355047.5/47

In: 0.071 $\pm$ 0.000 χ^2 /NDF: 4501690.8/44

Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 5724768.6/50

All: 0.071 $\pm$ 0.000 χ^2 /NDF: 10226826.5/95

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.075+/-0.000 χ^2/NDF : 21128760545.5/21

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

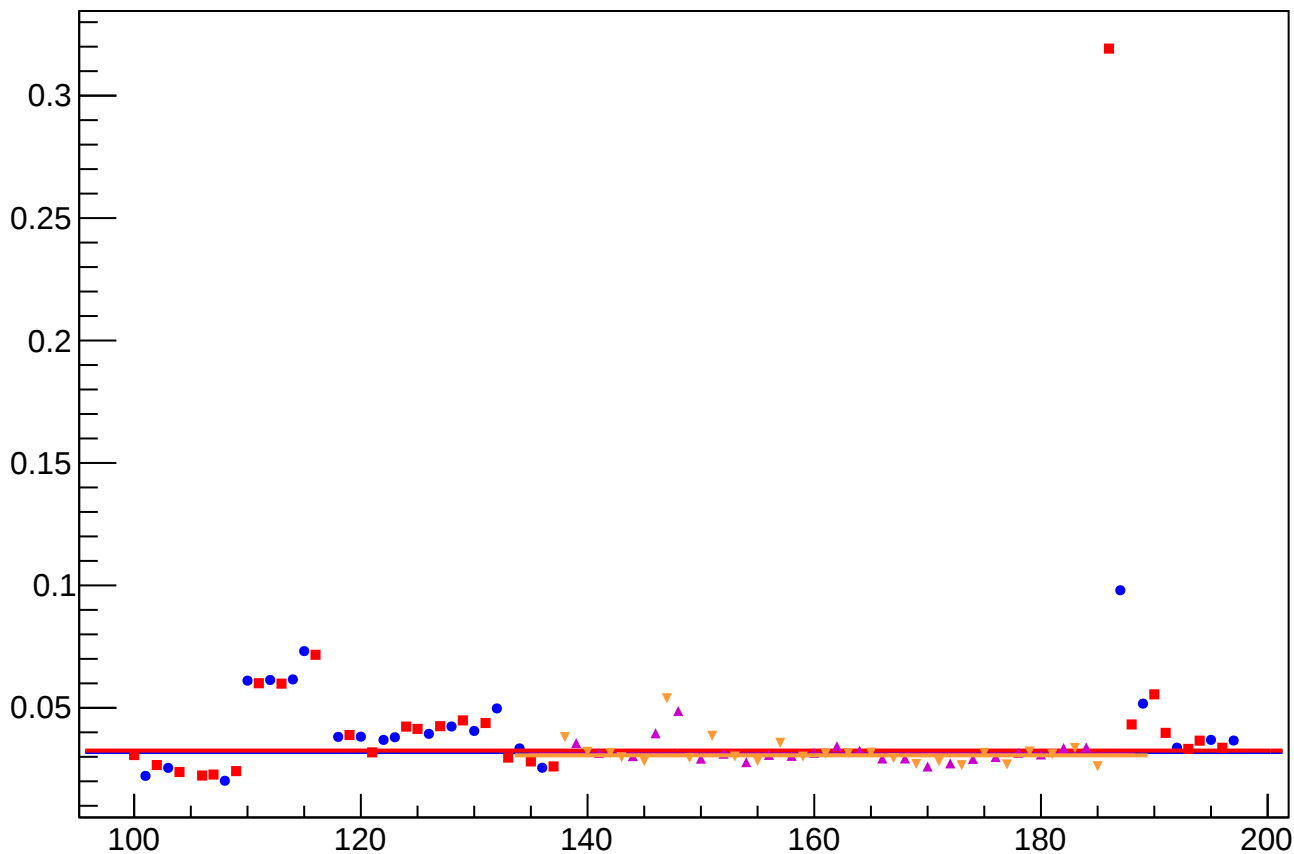
Right: 19.090+/-0.000 χ^2/NDF : 45109467143.0/47

In: 18.268+/-0.000 χ^2/NDF : 30147736833.5/44

Out: 18.250+/-0.000 χ^2/NDF : 34876924936.5/50

All: 18.258+/-0.000 χ^2/NDF : 65028922257.8

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 1659053.5/21

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

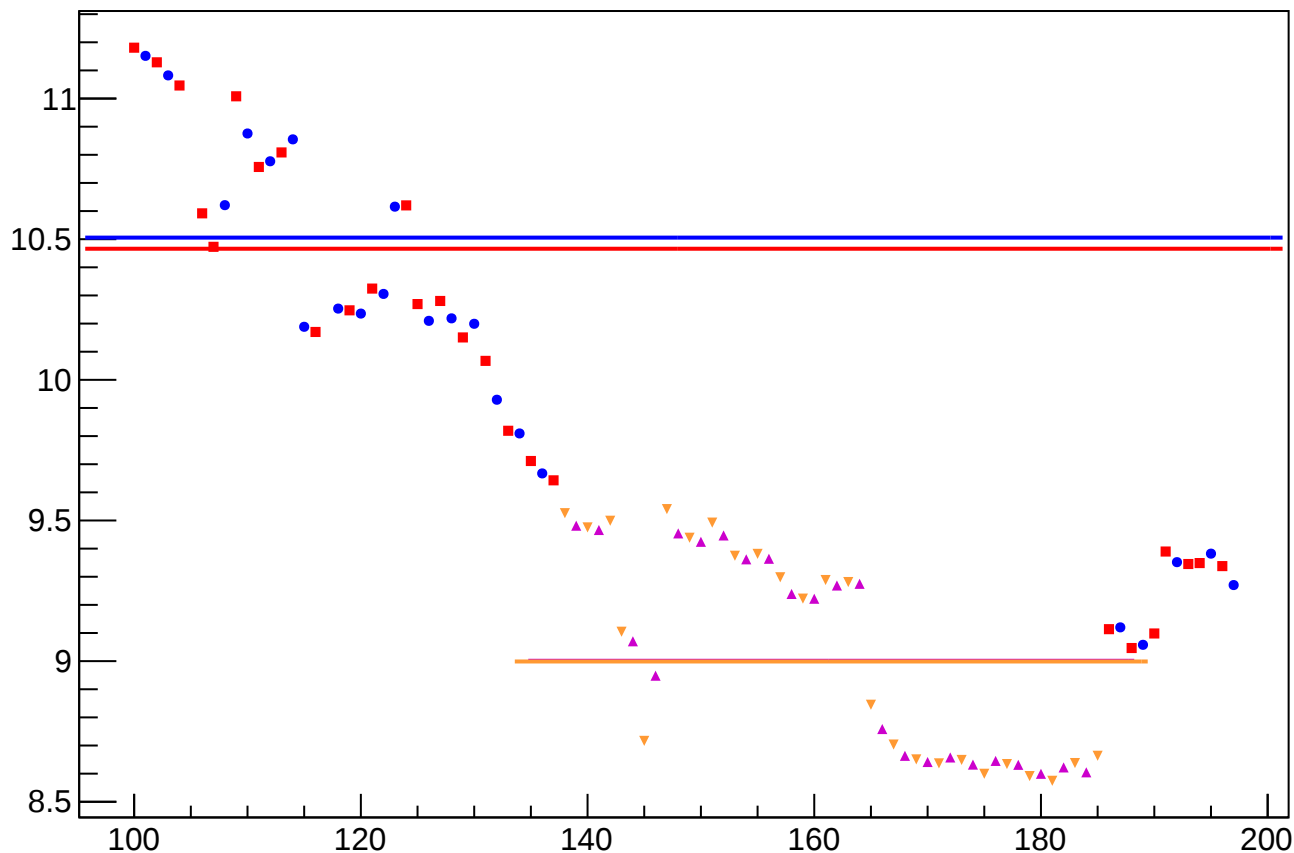
Right: 0.032 $\pm$ 0.000 χ^2 /NDF: 3718382.7/47

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2124924.9/44

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:2692376.4/50

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4817301.3/95

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.506+/-0.000 χ^2/NDF : 10068109361.1/21

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

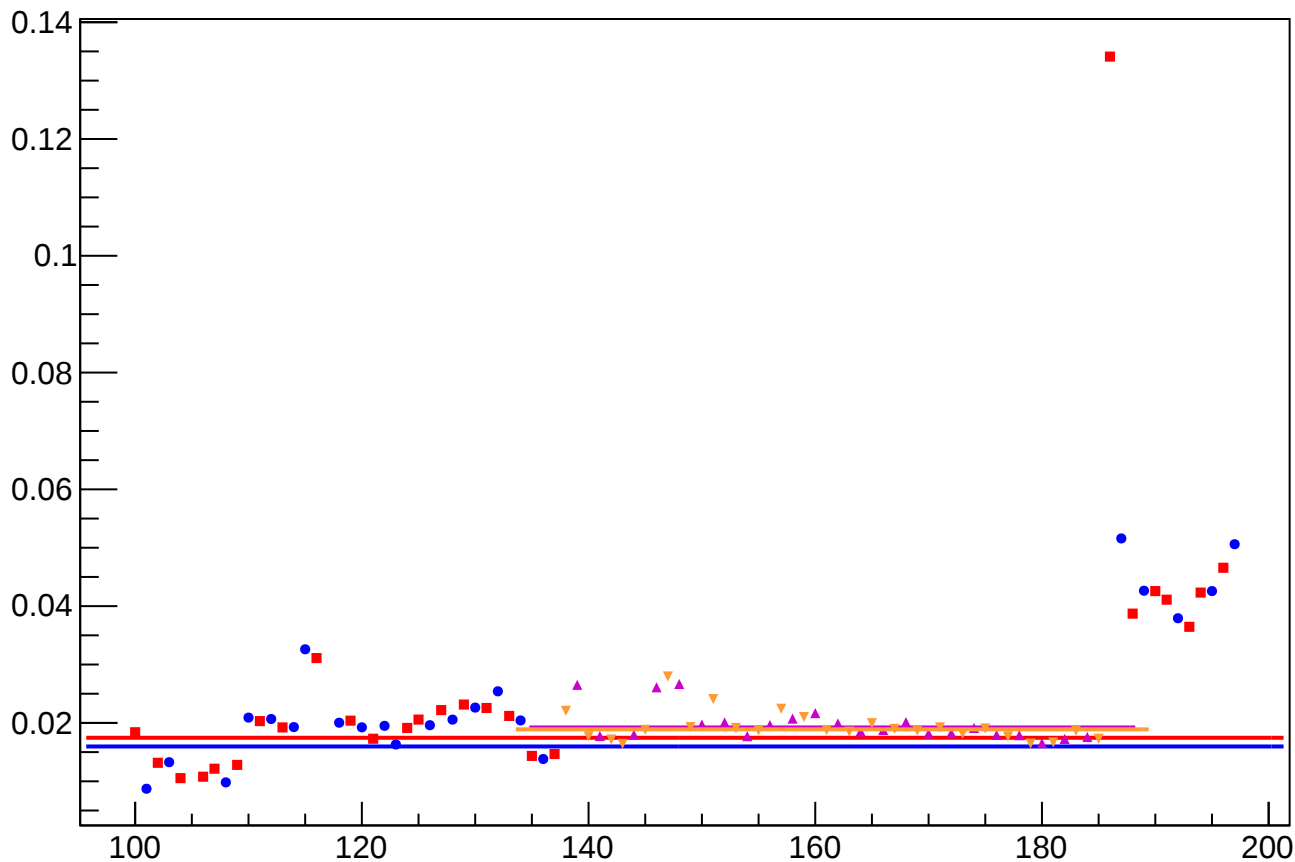
Right: 10.486+/-0.000 χ^2/NDF : 19663069407.5/47

In: 9.592+/-0.000 χ^2/NDF : 53421374884.3/44

Out: 9.541+/-0.000 χ^2/NDF : 53339597217.3/50

All: 9.566+/-0.000 χ^2/NDF : 106855306516.3

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3938999.1/21

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

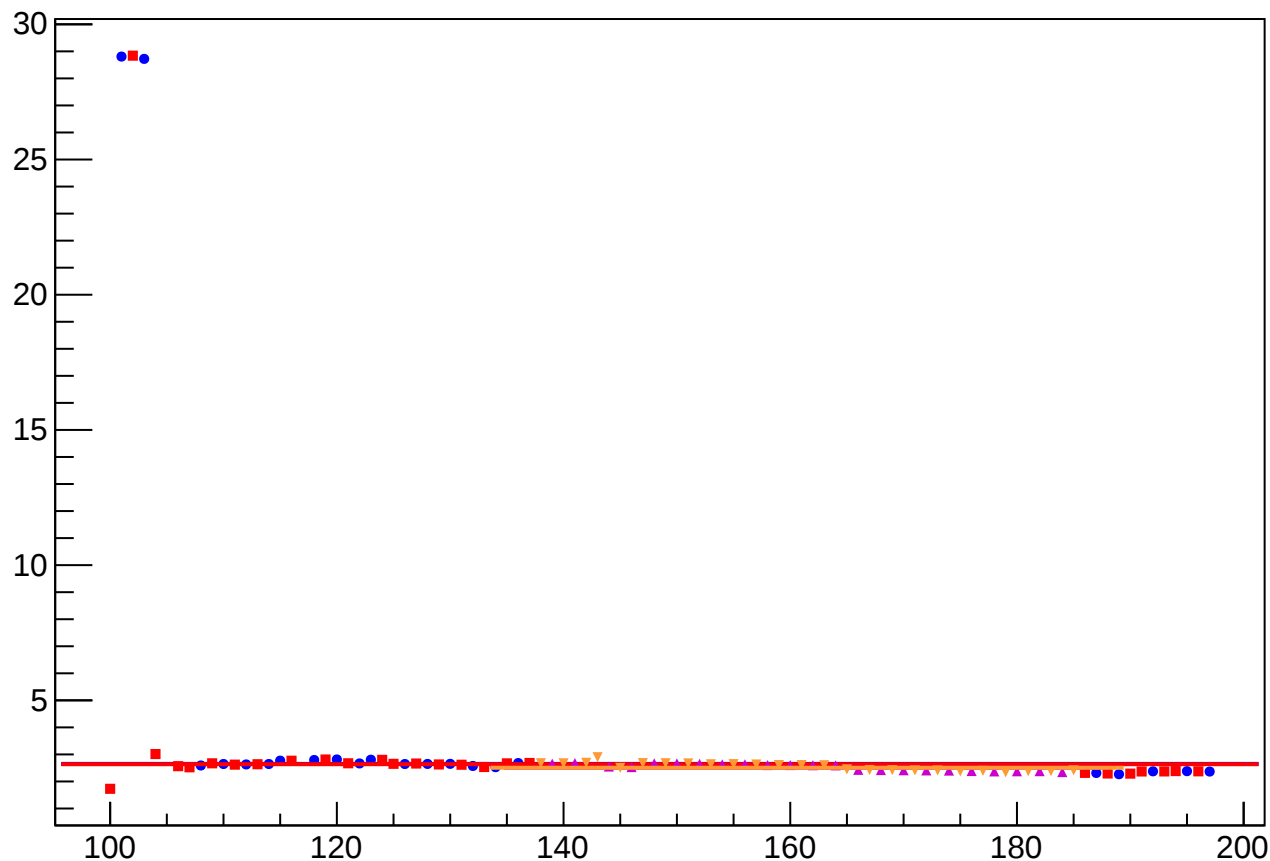
Right: 0.017+/-0.000 χ^2/NDF : 8267668.6/47

In: 0.018+/-0.000 χ^2/NDF : 4777939.8/44

Out: 0.018+/-0.000 χ^2/NDF : 4767809.5/50

All: 0.018+/-0.000 χ^2/NDF : 9558485.4/95

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.649 $\pm$ 0.000 χ^2 /NDF: 169533446806.5/21

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.638 $\pm$ 0.000 χ^2 /NDF: 80851518128.2/25

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

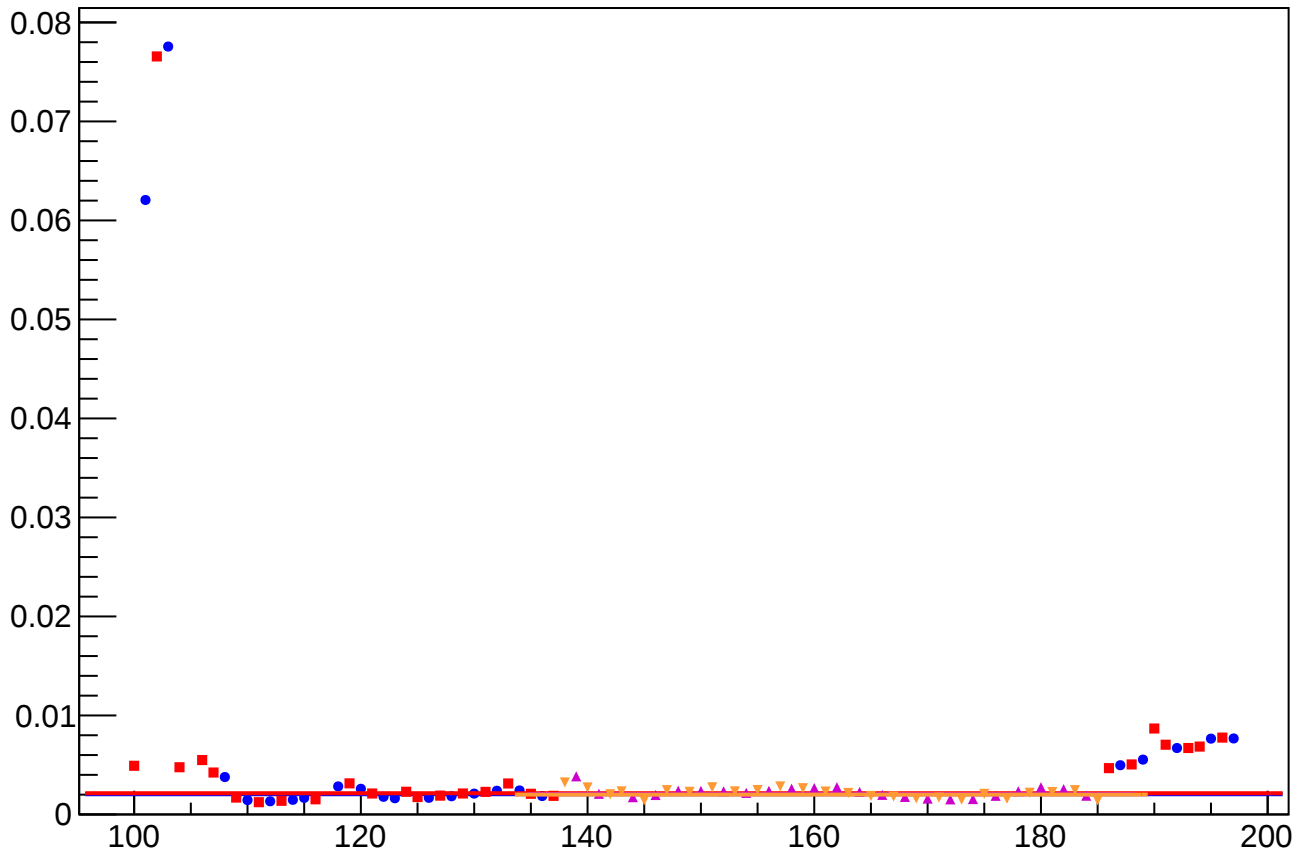
Right: 2.644 $\pm$ 0.000 χ^2 /NDF: 250470666199.7/47

In: 2.548 $\pm$ 0.000 χ^2 /NDF: 232898417856.1/44

Out: 2.545 $\pm$ 0.000 χ^2 /NDF: 163712479000.1/50

All: 2.547 $\pm$ 0.000 χ^2 /NDF: 396635439195.6

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5748335.1/21

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

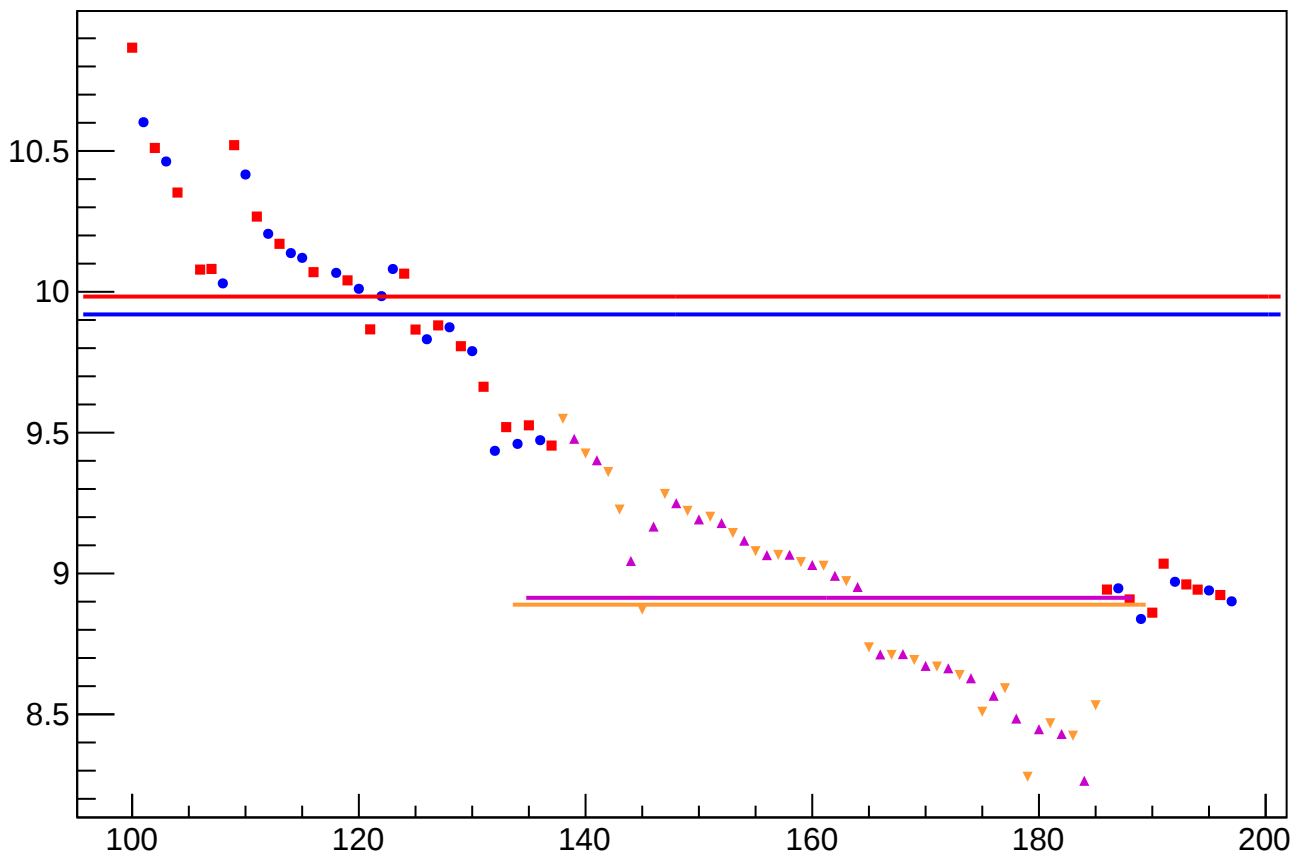
Right: 0.002+/-0.000 χ^2/NDF : 11964598.2/47

In: 0.002+/-0.000 χ^2/NDF : 7052081.3/44

Out: 0.002+/-0.000 χ^2/NDF : 7710933.4/50

All: 0.002+/-0.000 χ^2/NDF : 14763283.5/95

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.920 $\pm$ 0.000 χ^2 /NDF: 32228981536.3/21

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

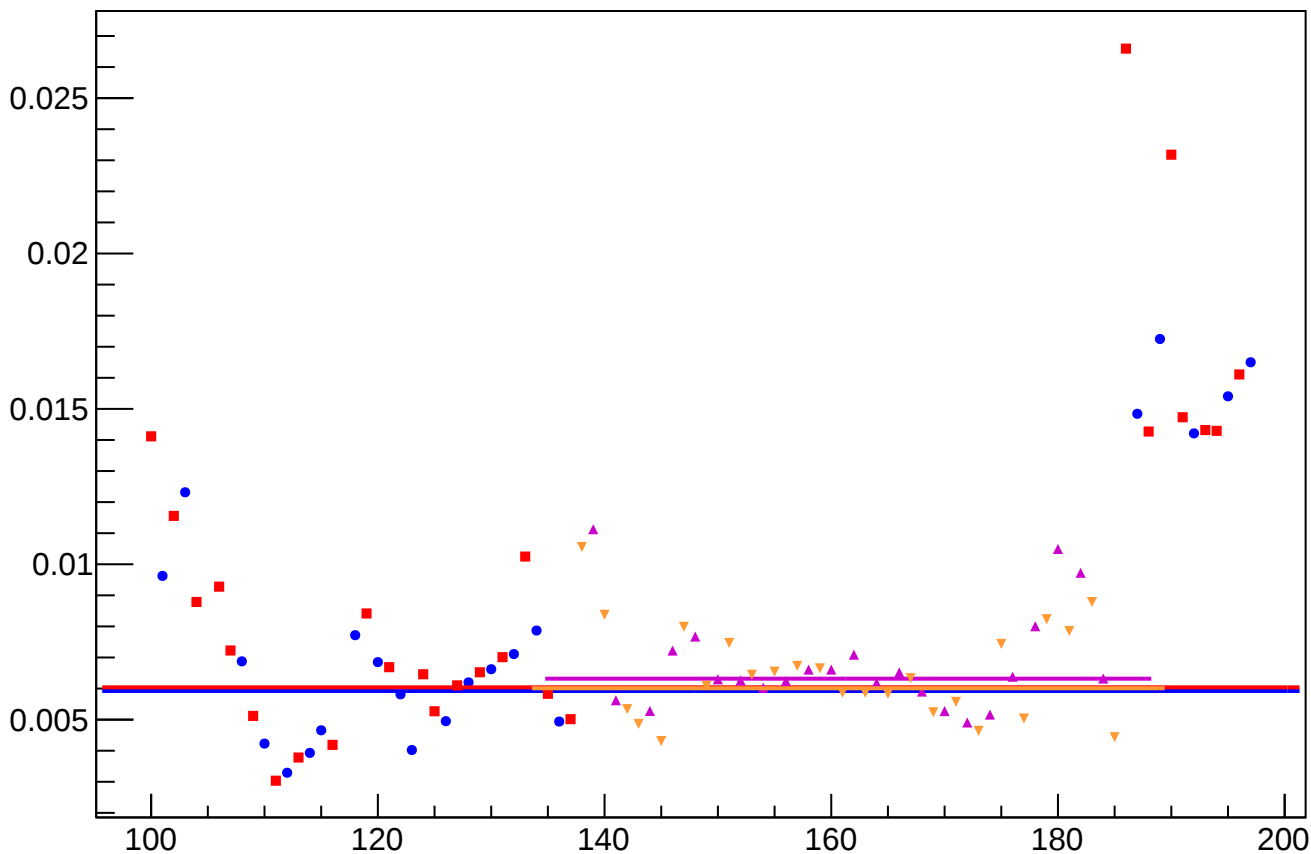
Right: 9.953 $\pm$ 0.000 χ^2 /NDF: 68859189004.4/47

In: 9.273 $\pm$ 0.000 χ^2 /NDF: 186715063115.7/44

Out: 9.263 $\pm$ 0.000 χ^2 /NDF: 235313801100.9/50

All: 9.268 $\pm$ 0.000 χ^2 /NDF: 422061793722.8

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3693758.3/21

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

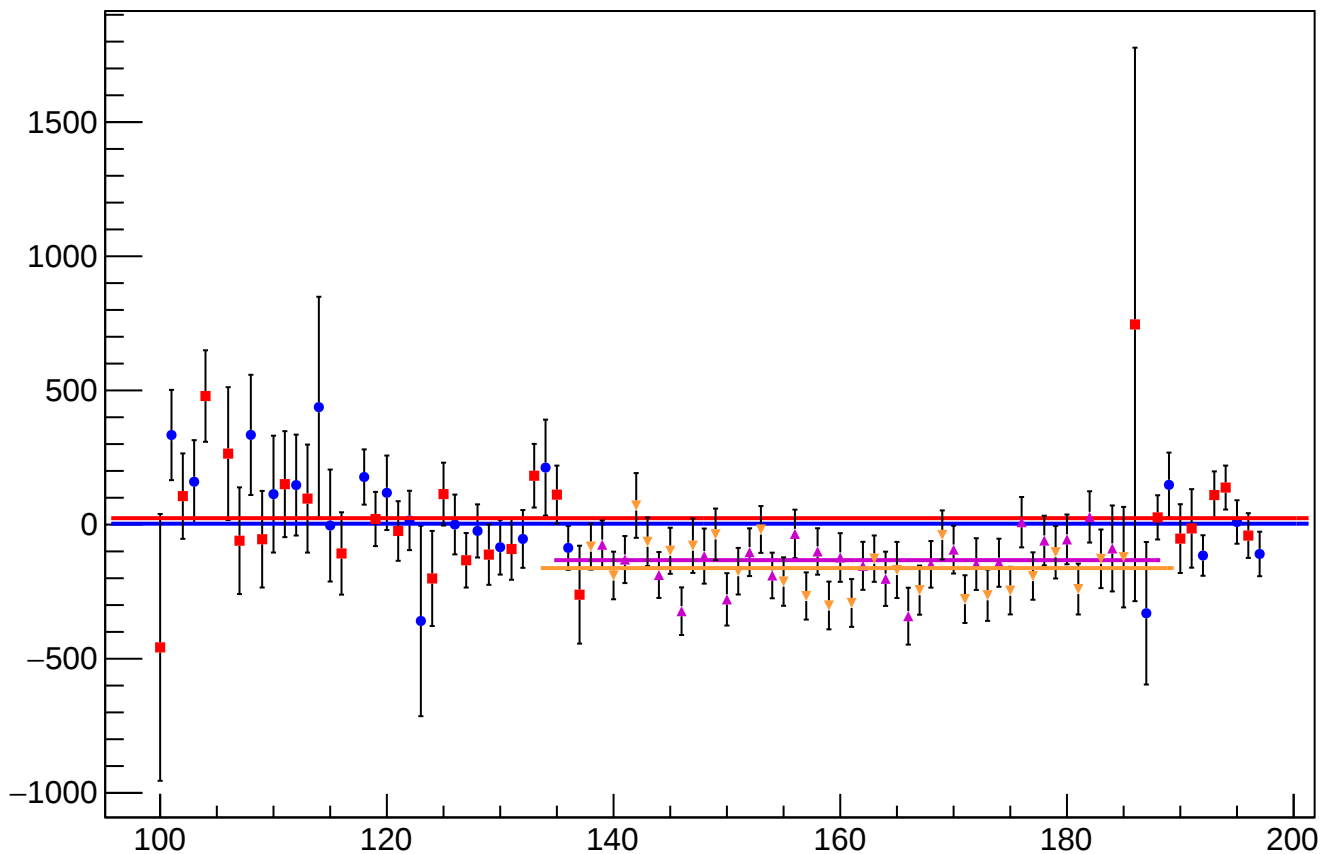
Right: 0.006+/-0.000 χ^2/NDF : 8794813.8/47

In: 0.006+/-0.000 χ^2/NDF :4819825.9/44

Out: 0.006+/-0.000 χ^2/NDF :6411060.4/50

All: 0.006+/-0.000 χ^2/NDF : 11245032.9/95

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 3.264 ± 25.710 $\chi^2/\text{NDF}: 24.6/21$

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 $\chi^2/\text{NDF}: 47.6/47$

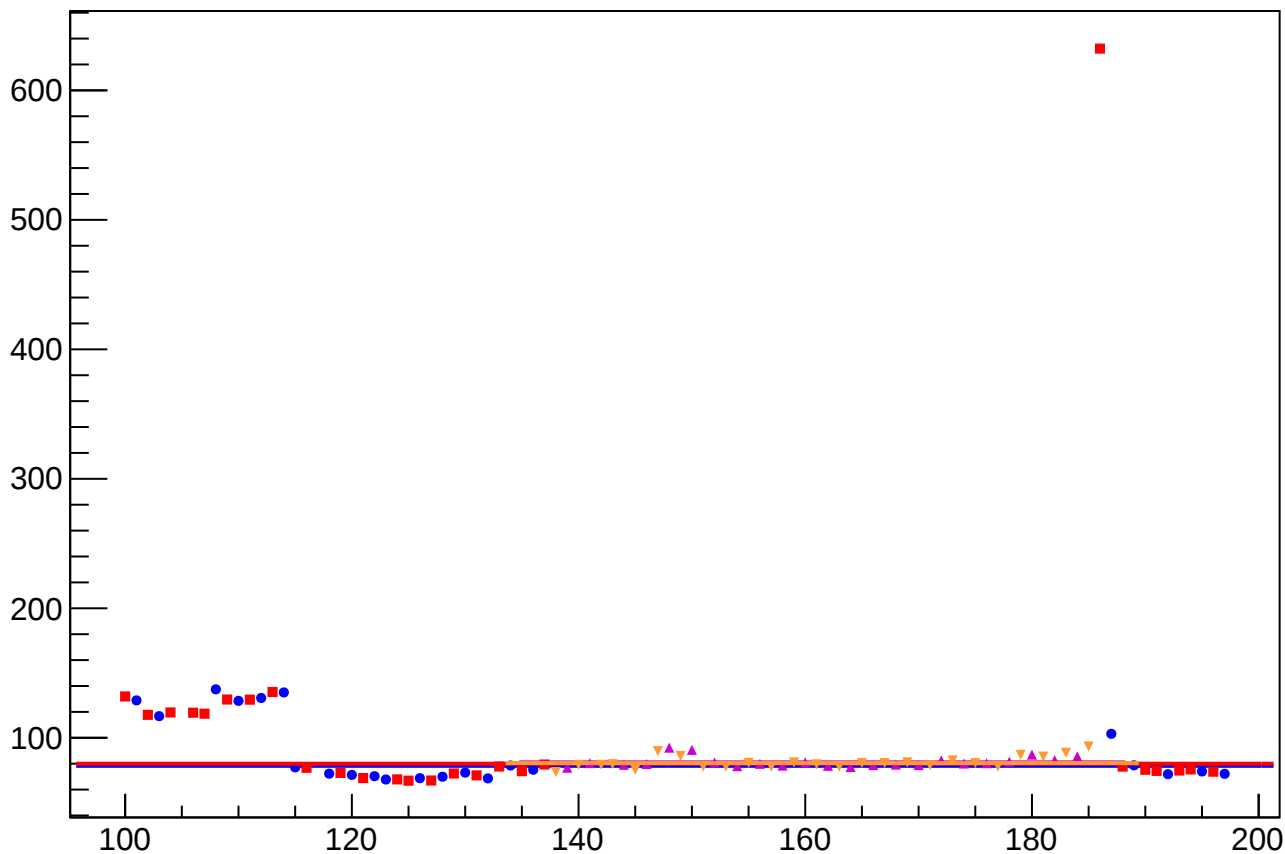
Right: 13.990 ± 17.803 $\chi^2/\text{NDF}: 52.4/47$

In: -83.271 ± 15.488 $\chi^2/\text{NDF}: 63.2/44$

Out: -94.088 ± 14.926 $\chi^2/\text{NDF}: 89.2/50$

All: -88.879 ± 10.747 $\chi^2/\text{NDF}: 152.6/95$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 78.355 $\pm$ 0.018 χ^2 /NDF: 867961.5/21

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

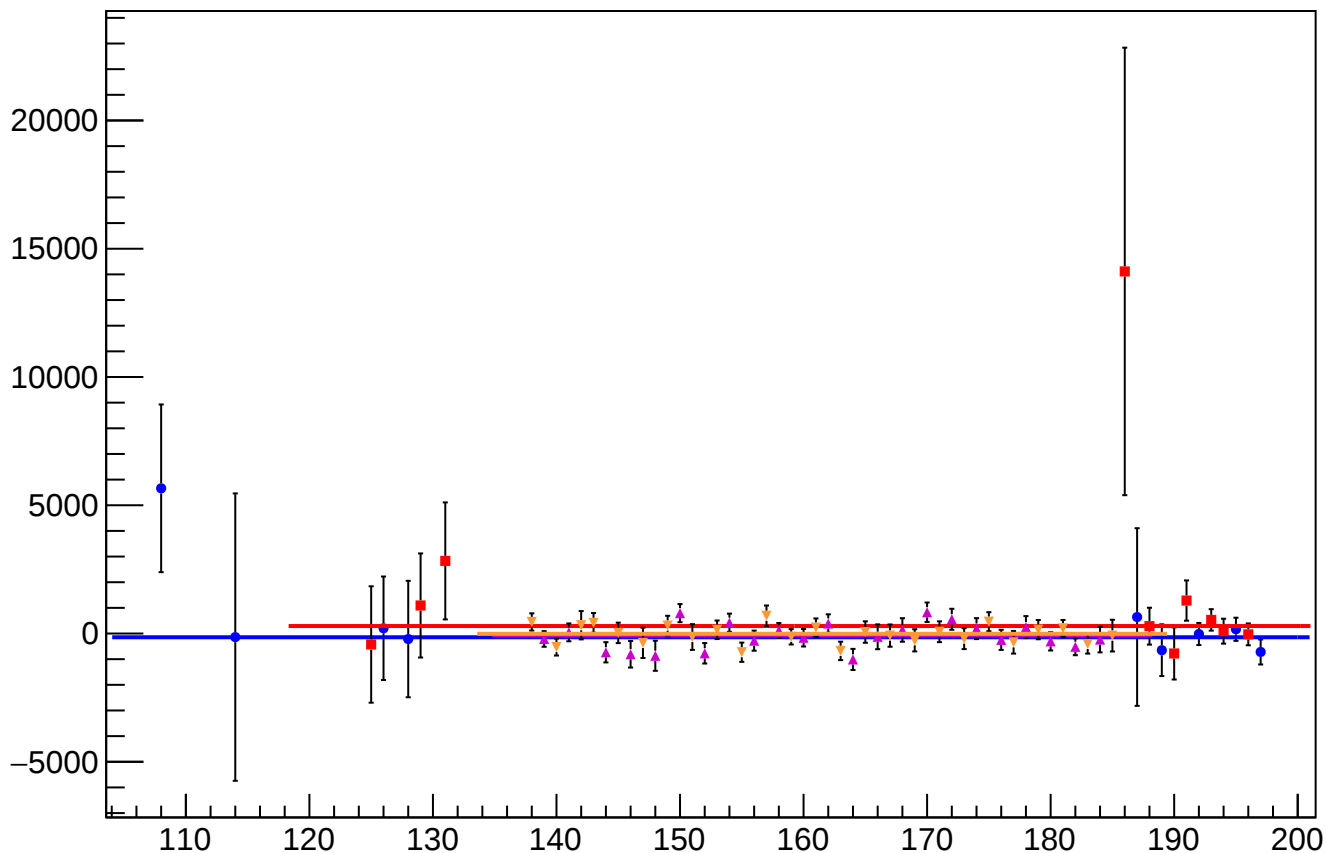
Right: 79.200 $\pm$ 0.013 χ^2 /NDF: 2398475.1/47

In: 80.049 $\pm$ 0.011 χ^2 /NDF: 953843.4/44

Out: 80.283 $\pm$ 0.011 χ^2 /NDF: 1616782.0/50

All: 80.170 $\pm$ 0.008 χ^2 /NDF: 2570862.5/95

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -145.943 ± 248.784 χ^2/NDF : 5.4/8

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

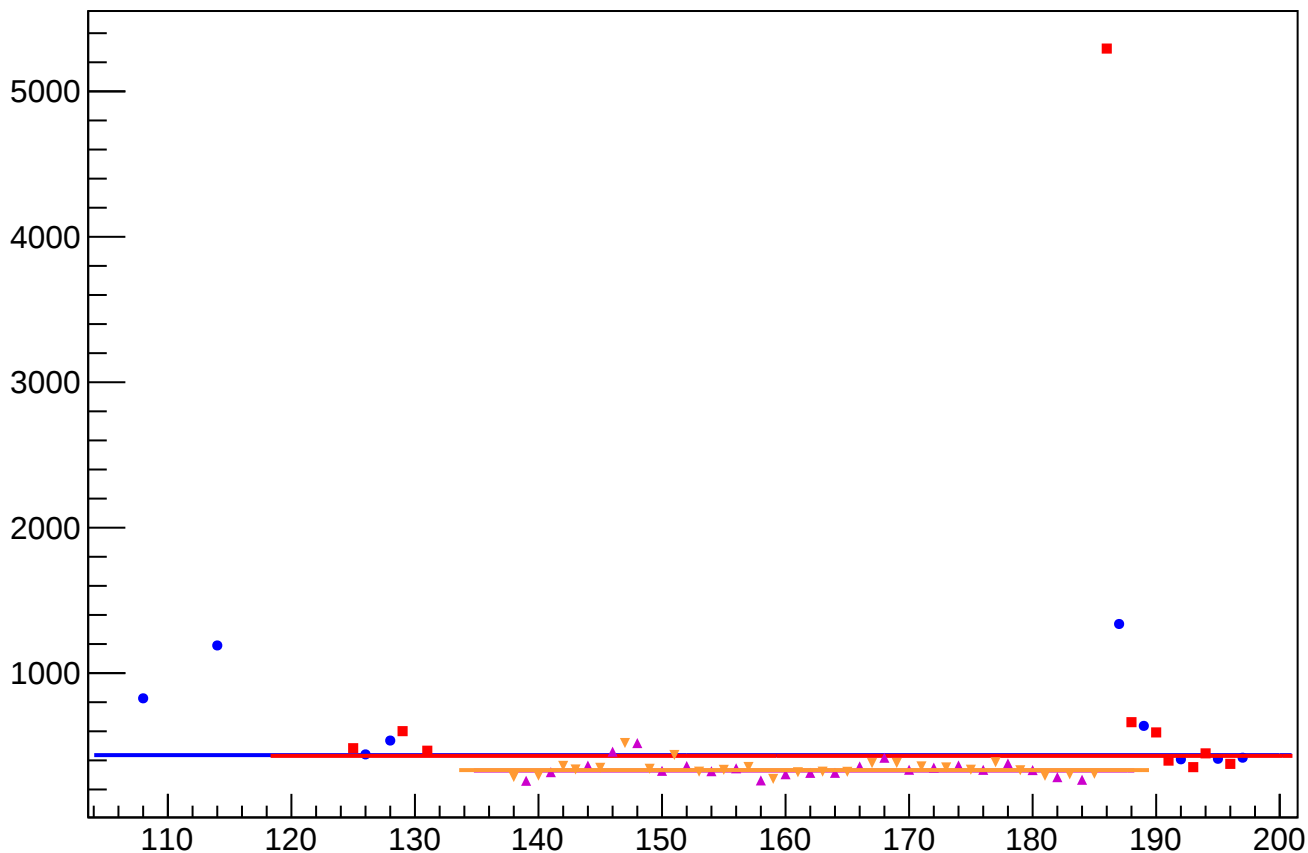
Right: 99.774 ± 164.831 χ^2/NDF : 15.0/18

In: -72.223 ± 76.200 χ^2/NDF : 42.9/31

Out: 23.579 ± 73.846 χ^2/NDF : 32.0/34

All: -22.820 ± 53.029 χ^2/NDF : 75.8/66

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 436.192 $\pm$ 0.176 χ^2 /NDF: 301708.6/8

Left Out: 333.233 $\pm$ 0.055 χ^2 /NDF: 592122.2/24

Right Out: 431.074 $\pm$ 0.156 χ^2 /NDF: 1003571.9/9

Left In: 329.985 $\pm$ 0.057 χ^2 /NDF: 795969.0/22

Left: 331.643 $\pm$ 0.040 χ^2 /NDF: 1389771.8/47

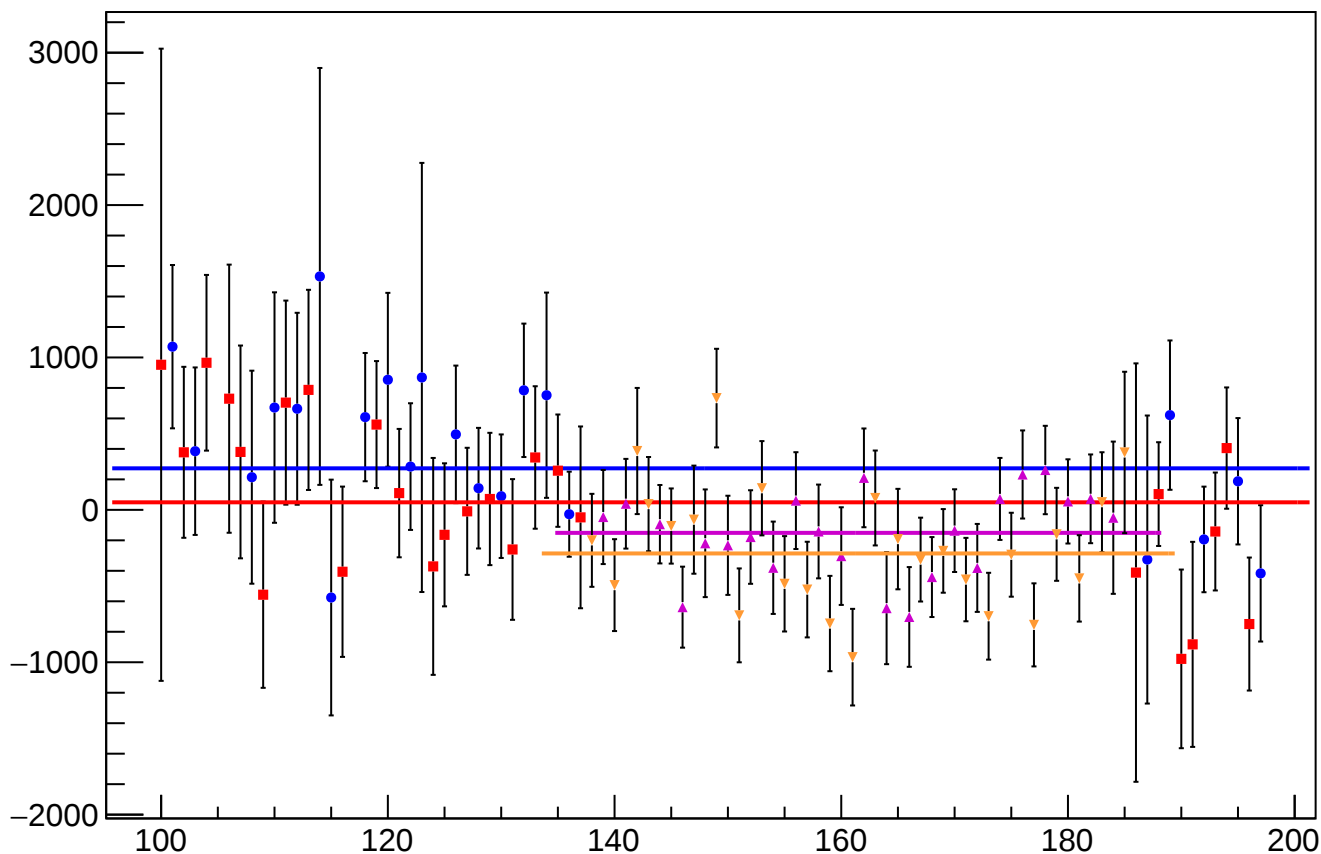
Right: 433.321 $\pm$ 0.117 χ^2 /NDF: 1305755.2/18

In: 339.949 $\pm$ 0.054 χ^2 /NDF: 1427973.8/31

Out: 344.251 $\pm$ 0.052 χ^2 /NDF: 1946527.8/34

All: 342.167 $\pm$ 0.037 χ^2 /NDF: 3377788.6/66

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 272.496 $\pm$ 104.029 χ^2/NDF : 15.6/21

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

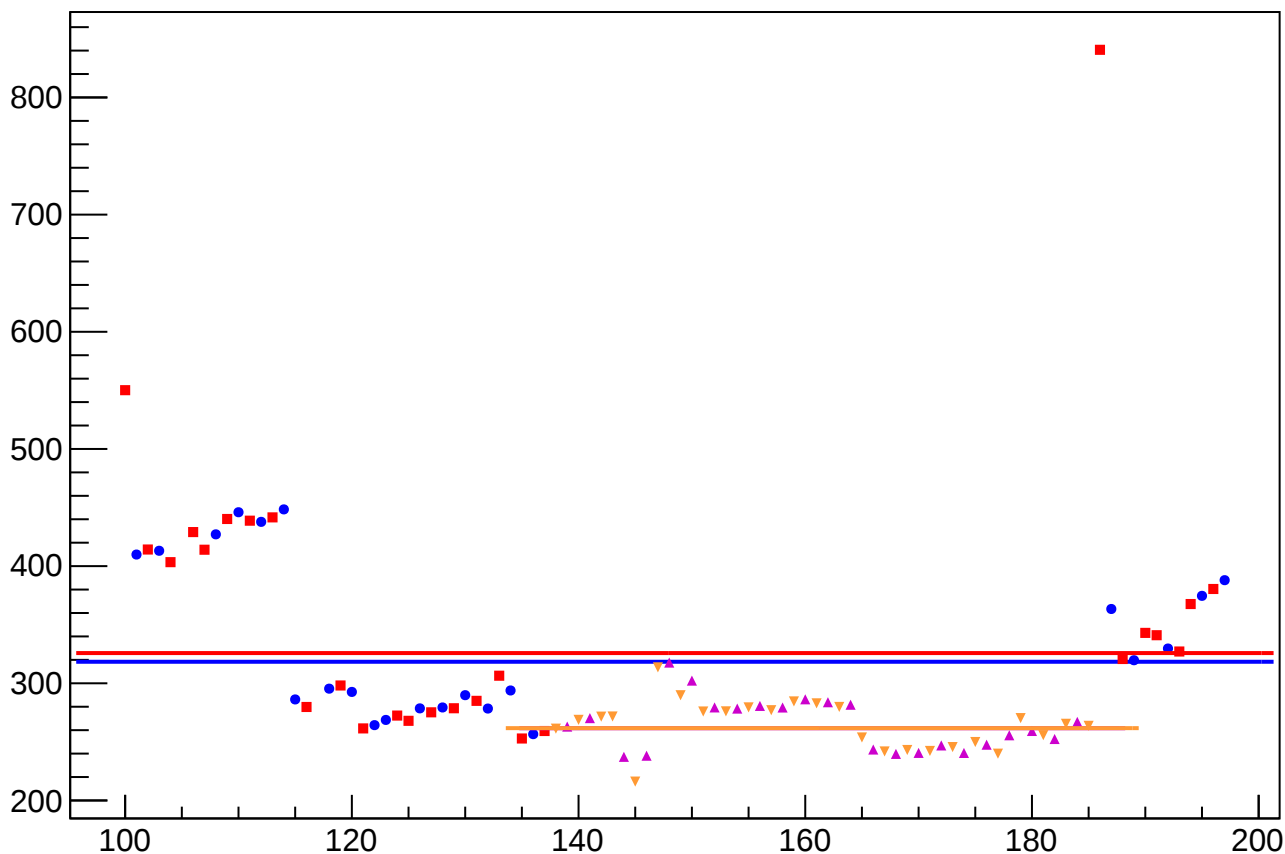
Right: 155.946 $\pm$ 71.882 χ^2/NDF : 38.5/47

In: -37.783 $\pm$ 53.774 χ^2/NDF :46.4/44

Out: -194.094 $\pm$ 52.055 χ^2/NDF :65.4/50

All: -118.478 $\pm$ 37.401 χ^2/NDF : 116.2/95

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 318.381+/-0.074 χ^2/NDF : 617094.0/21

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 325.800+/-0.070 χ^2/NDF : 981840.2/25

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

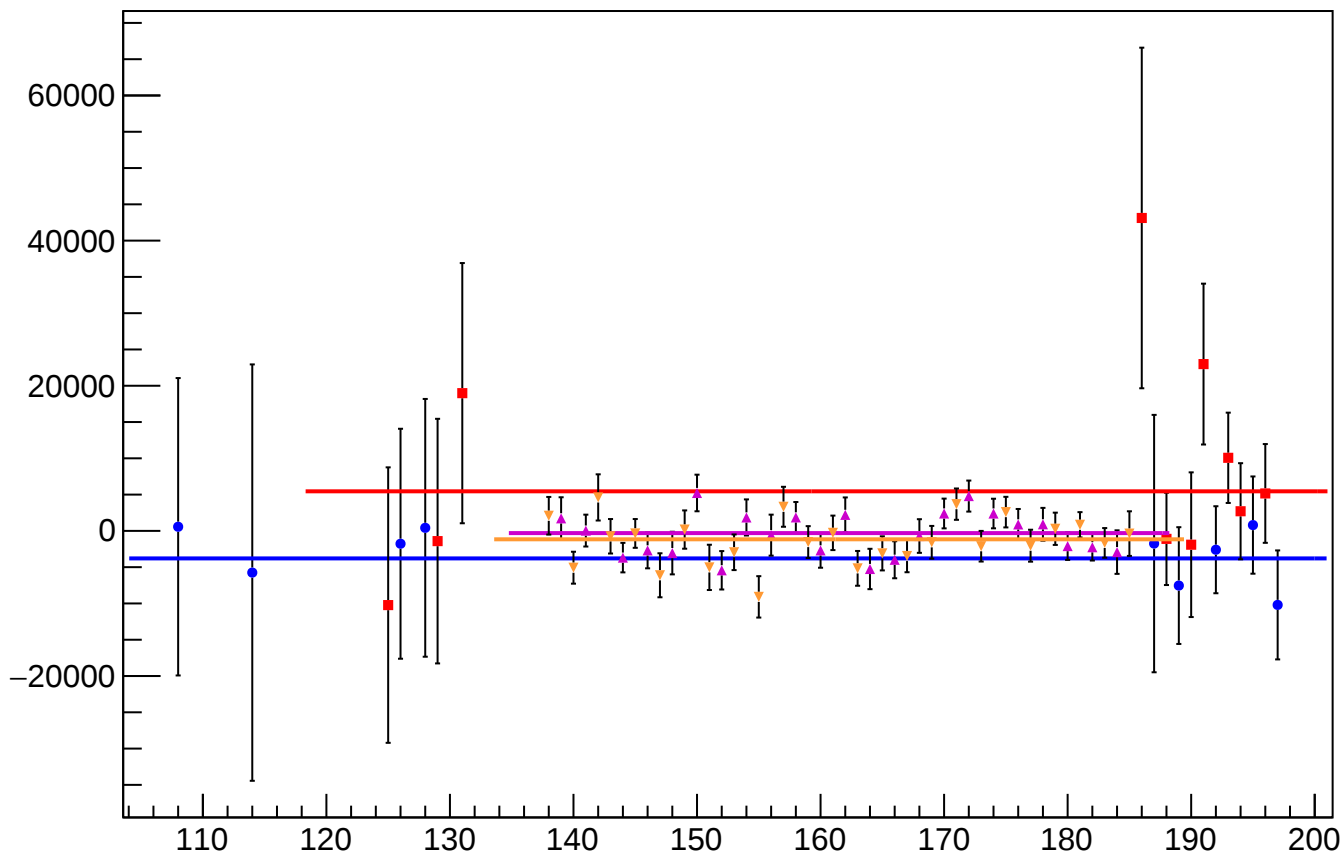
Right: 322.258+/-0.051 χ^2/NDF : 1604249.6/47

In: 276.799+/-0.038 χ^2/NDF : 1281402.6/44

Out: 279.282+/-0.037 χ^2/NDF : 1817986.7/50

All: 278.080+/-0.026 χ^2/NDF : 3101590.4/95

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3793.426+/-3207.249 χ^2/NDF : 1.6/8

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

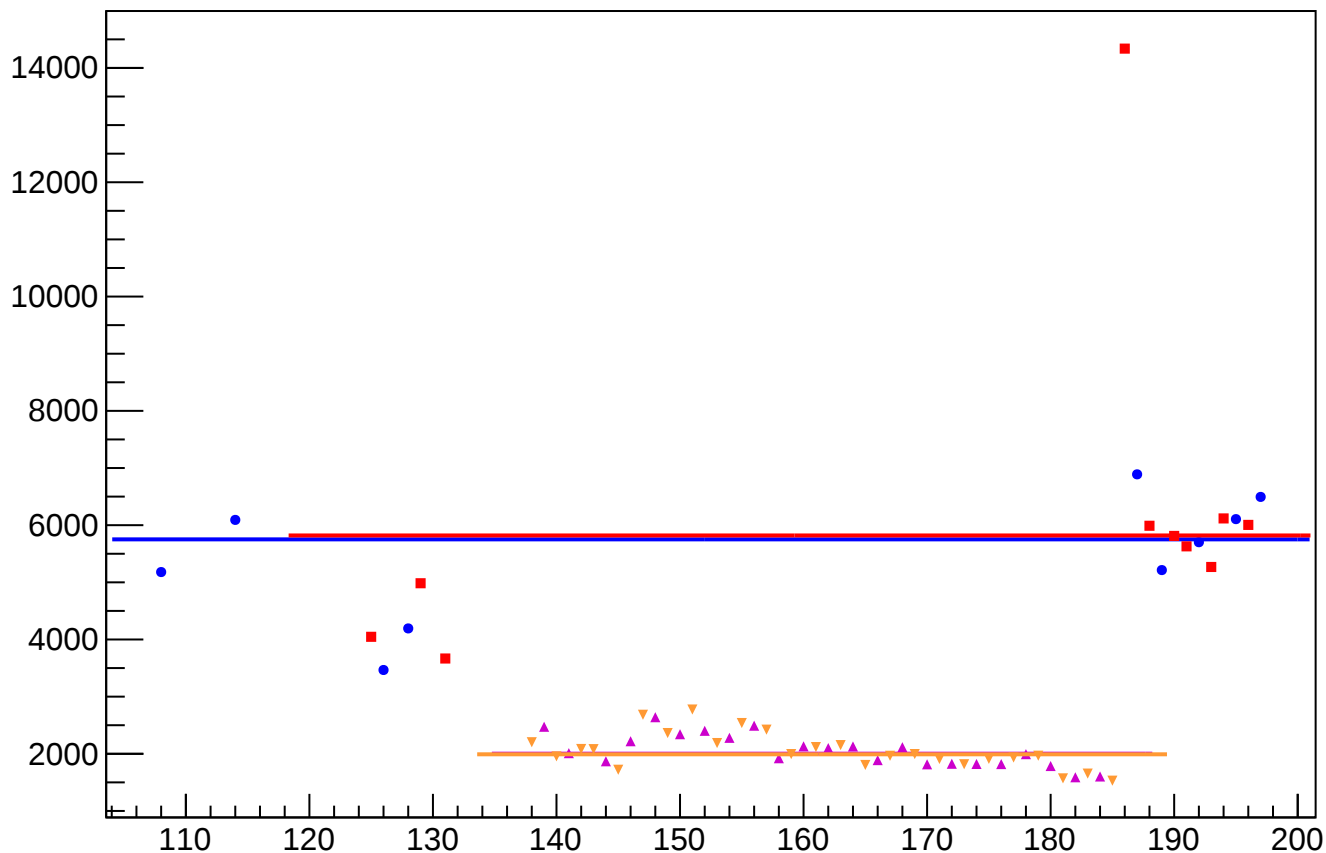
Right: 1395.515+/-2124.452 χ^2/NDF : 15.1/18

In: -381.985+/-478.367 χ^2/NDF :38.1/31

Out: -985.335+/-462.749 χ^2/NDF :52.9/34

All: -693.669+/-332.597 χ^2/NDF : 91.8/66

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5751.806 $\pm$ 2.268 χ^2 /NDF: 101292.7/8

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

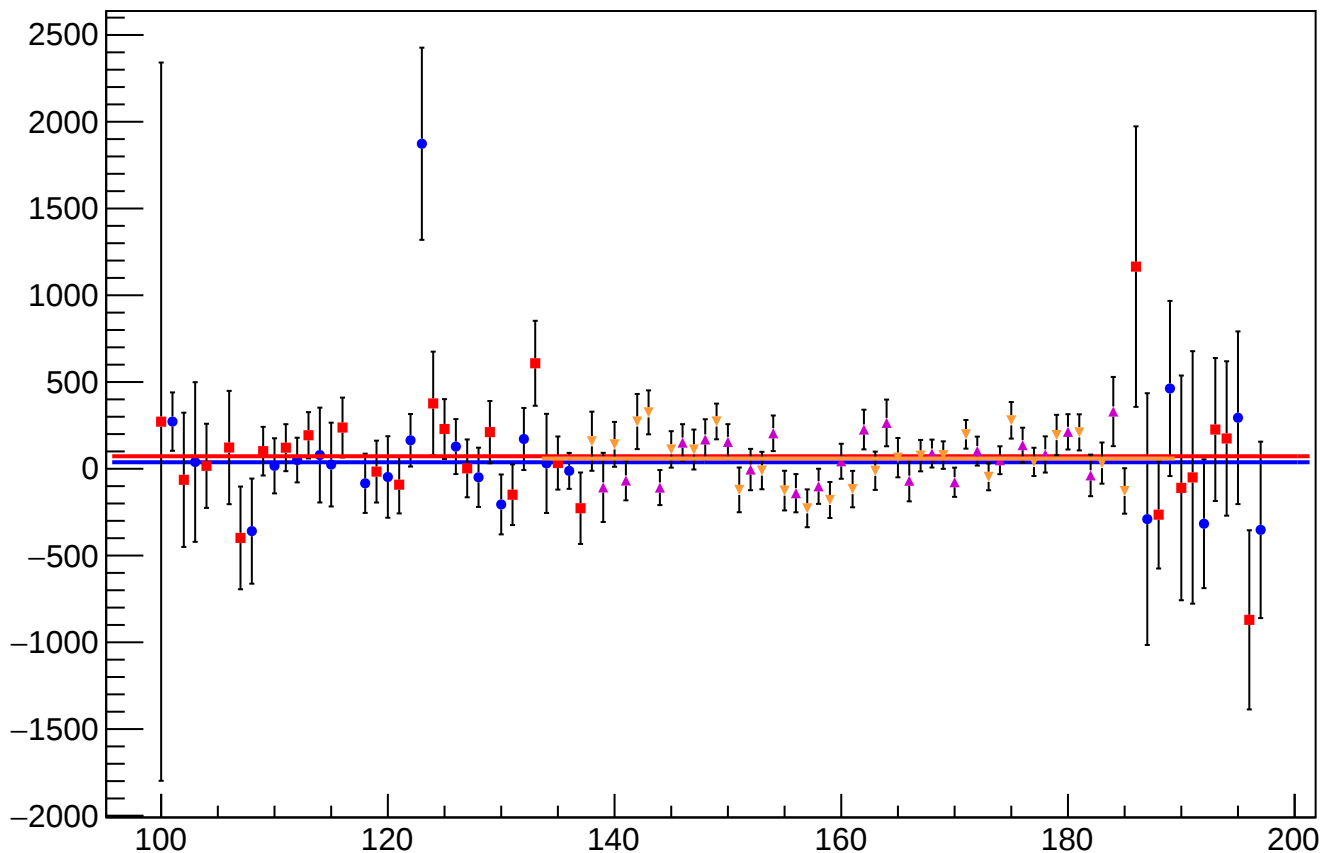
Right: 5790.162 $\pm$ 1.502 χ^2 /NDF: 439737.1/18

In: 2085.569 $\pm$ 0.338 χ^2 /NDF: 3360099.8/31

Out: 2093.066 $\pm$ 0.327 χ^2 /NDF: 4613544.6/34

All: 2089.442 $\pm$ 0.235 χ^2 /NDF: 7973898.2/66

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 37.637 $\pm$ 42.786 χ^2 /NDF: 22.1/21

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

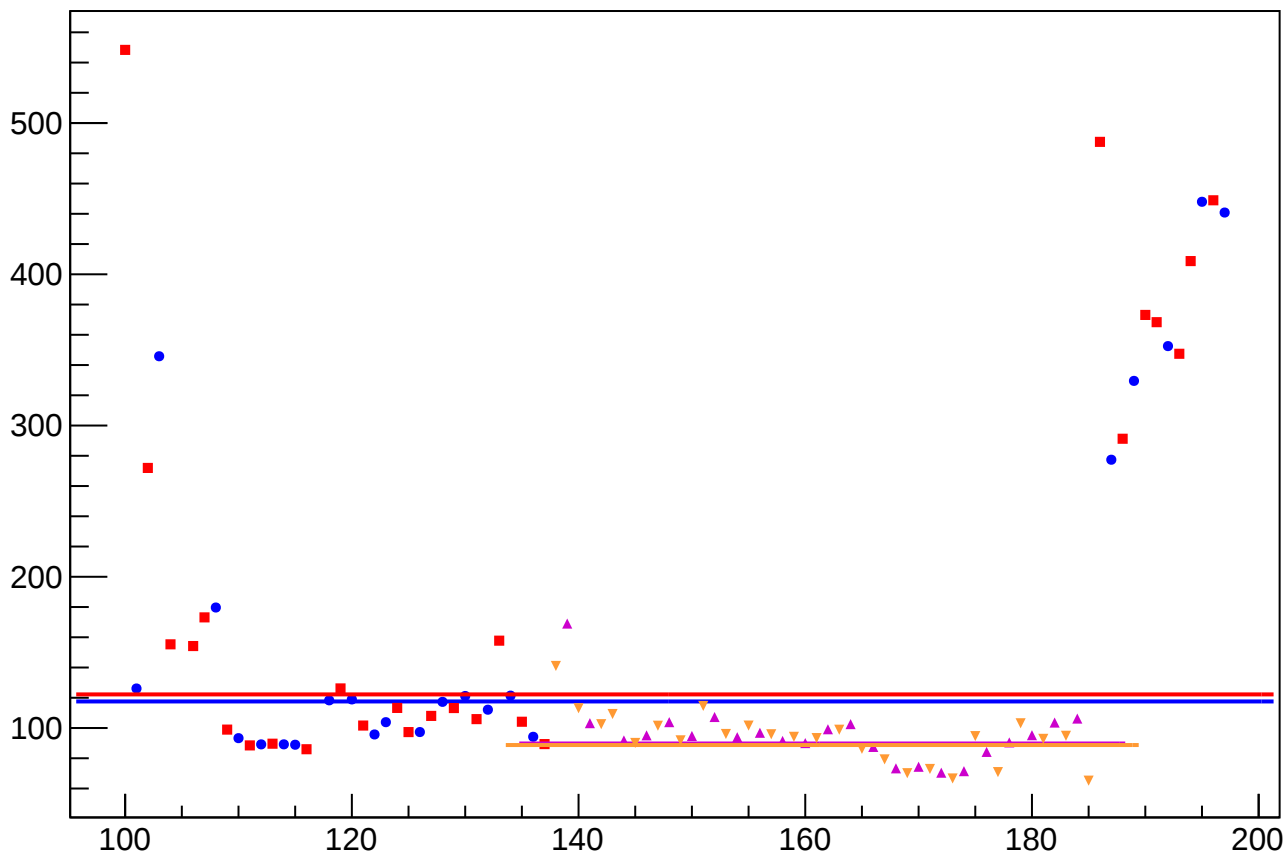
Right: 55.243 $\pm$ 29.979 χ^2 /NDF: 46.1/47

In: 54.744 $\pm$ 19.510 χ^2 /NDF:51.7/44

Out: 61.657 $\pm$ 18.883 χ^2 /NDF:70.7/50

All: 58.313 $\pm$ 13.568 χ^2 /NDF: 122.5/95

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.563 $\pm$ 0.030 χ^2 /NDF: 3897347.6/21

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

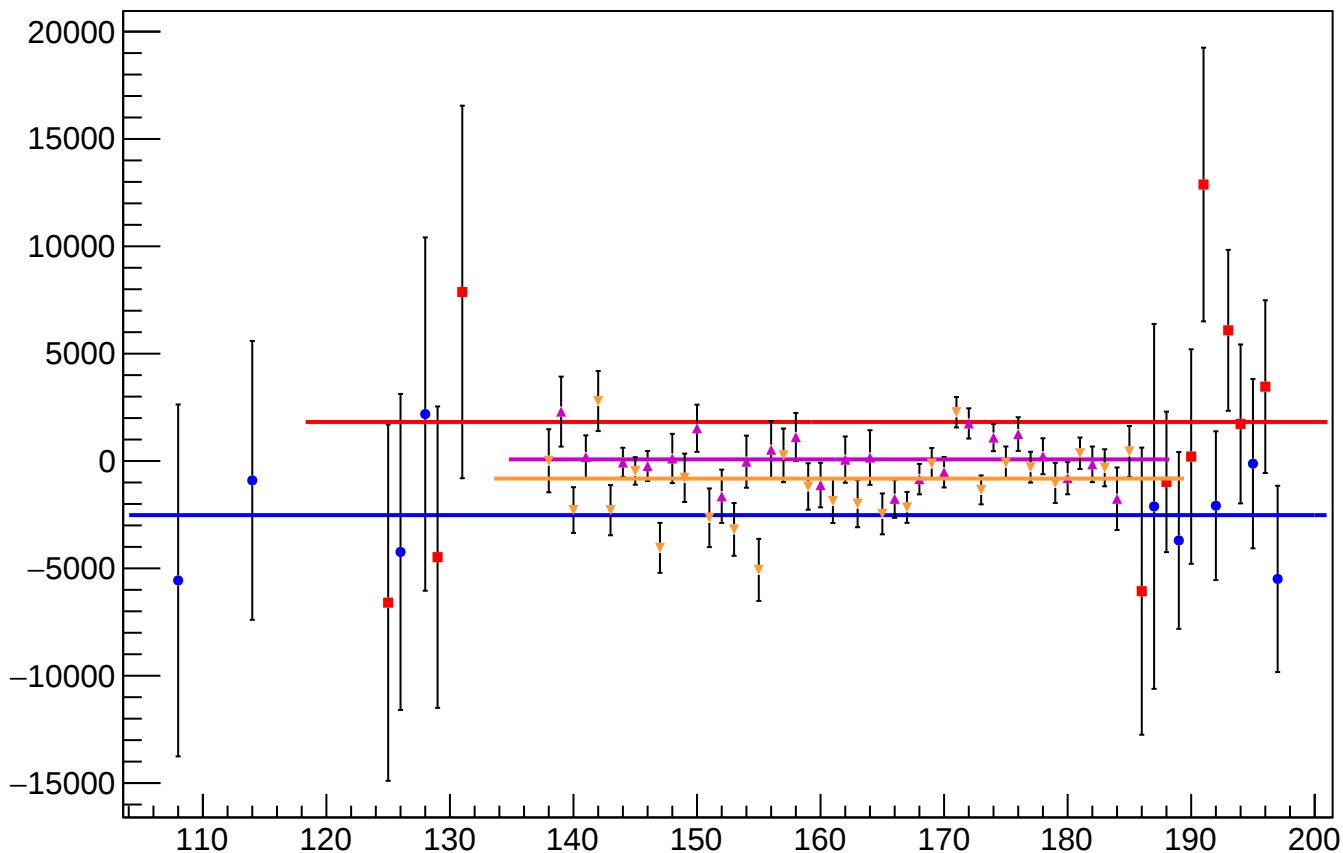
Right: 119.935 $\pm$ 0.021 χ^2 /NDF: 8789630.1/47

In: 95.545 $\pm$ 0.014 χ^2 /NDF:5451808.3/44

Out: 95.509 $\pm$ 0.013 χ^2 /NDF:6972623.2/50

All: 95.526 $\pm$ 0.010 χ^2 /NDF: 12424435.1/95

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2520.100 $\pm$ 1701.557 χ^2 /NDF: 1.5/8

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 1818.968 $\pm$ 1517.086 χ^2 /NDF: 9.0/9

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

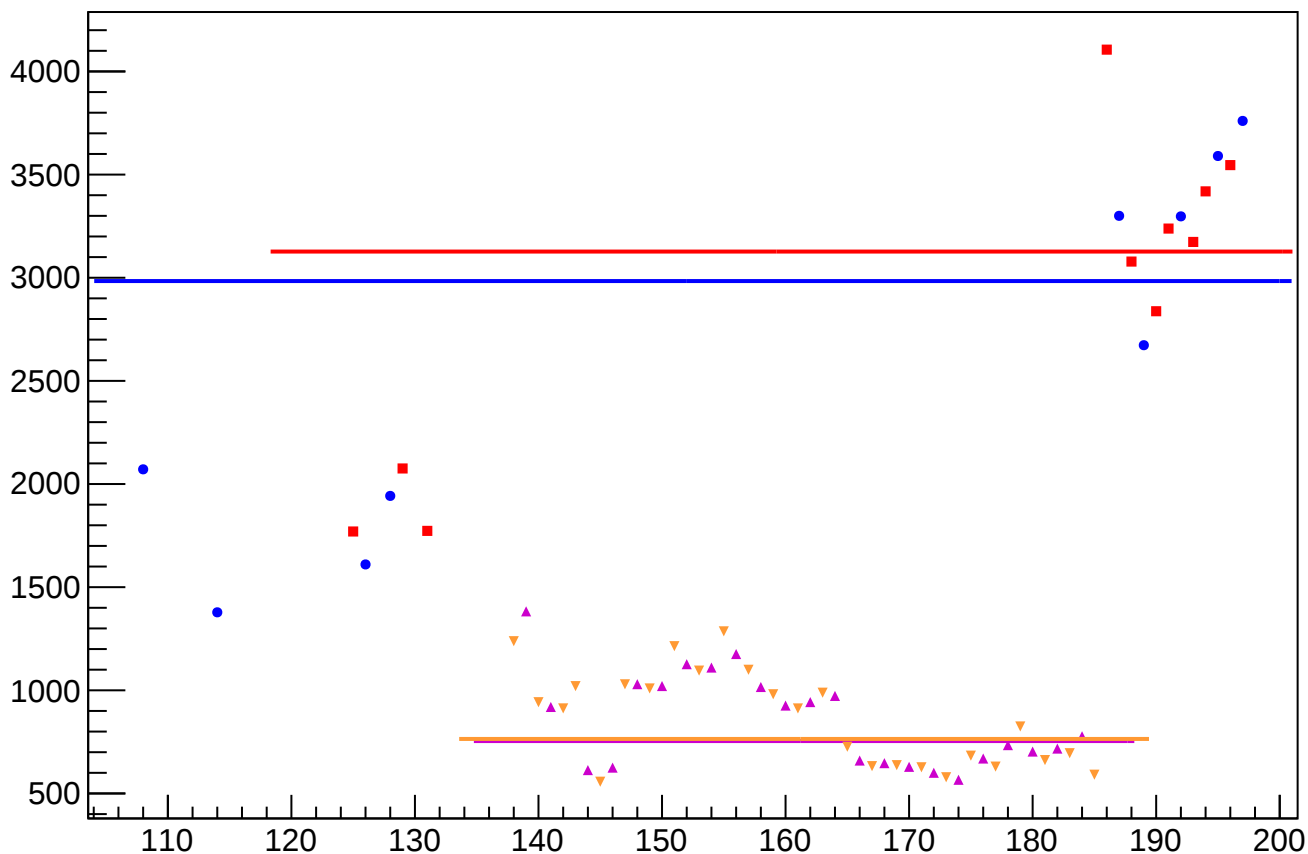
Right: -102.693 $\pm$ 1132.366 χ^2 /NDF: 14.2/18

In: 45.335 $\pm$ 185.538 χ^2 /NDF:32.1/31

Out: -780.446 $\pm$ 183.115 χ^2 /NDF:80.2/34

All: -372.982 $\pm$ 130.330 χ^2 /NDF: 122.3/66

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2983.906+/-1.203 χ^2/NDF : 390668.5/8

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 3126.904+/-1.073 χ^2/NDF : 232141.1/9

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

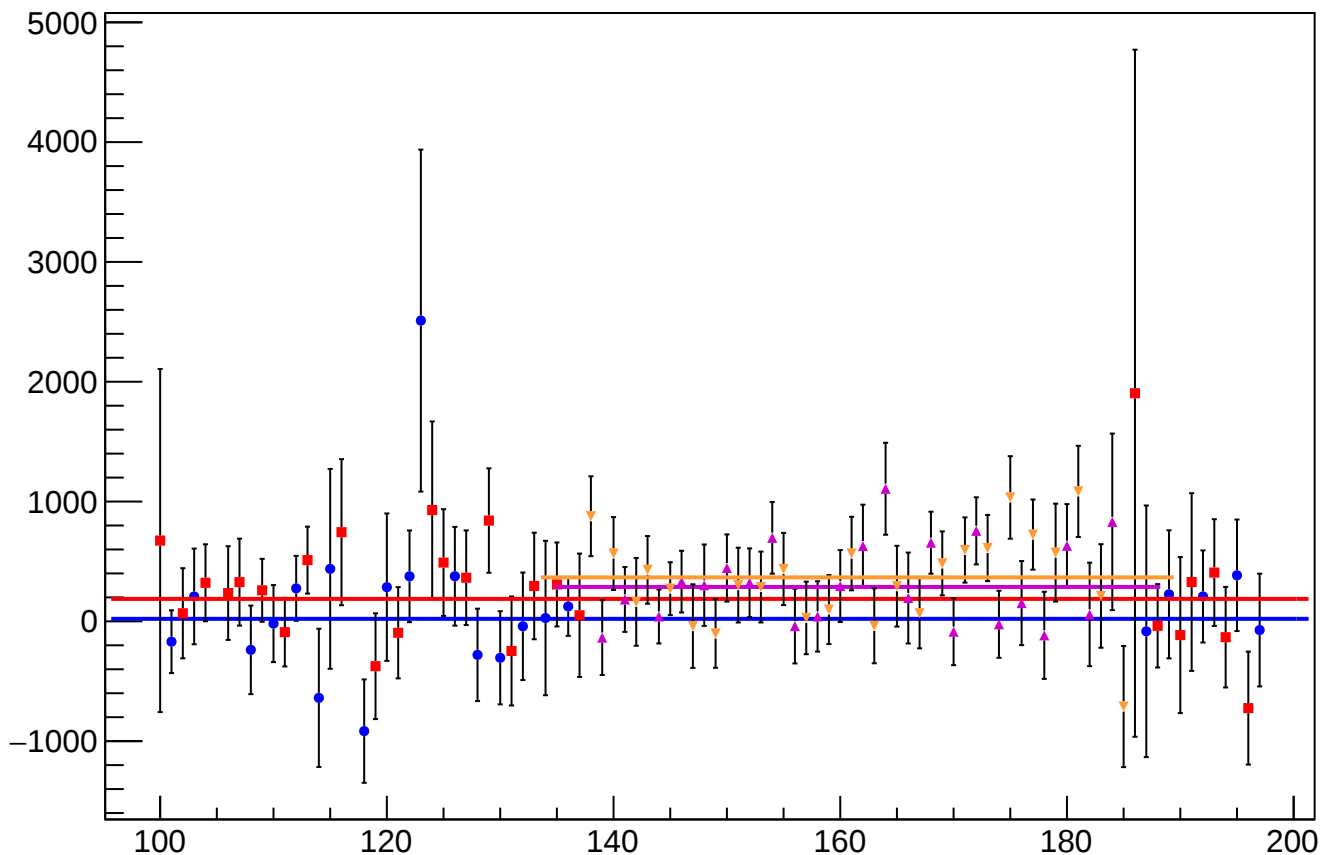
Right: 3063.574+/-0.801 χ^2/NDF : 630679.1/18

In: 780.539+/-0.131 χ^2/NDF : 5798003.0/31

Out: 798.701+/-0.129 χ^2/NDF : 7328098.0/34

All: 789.739+/-0.092 χ^2/NDF : 13135808.2/60

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 20.962 $\pm$ 86.132 χ^2/NDF : 15.8/21

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

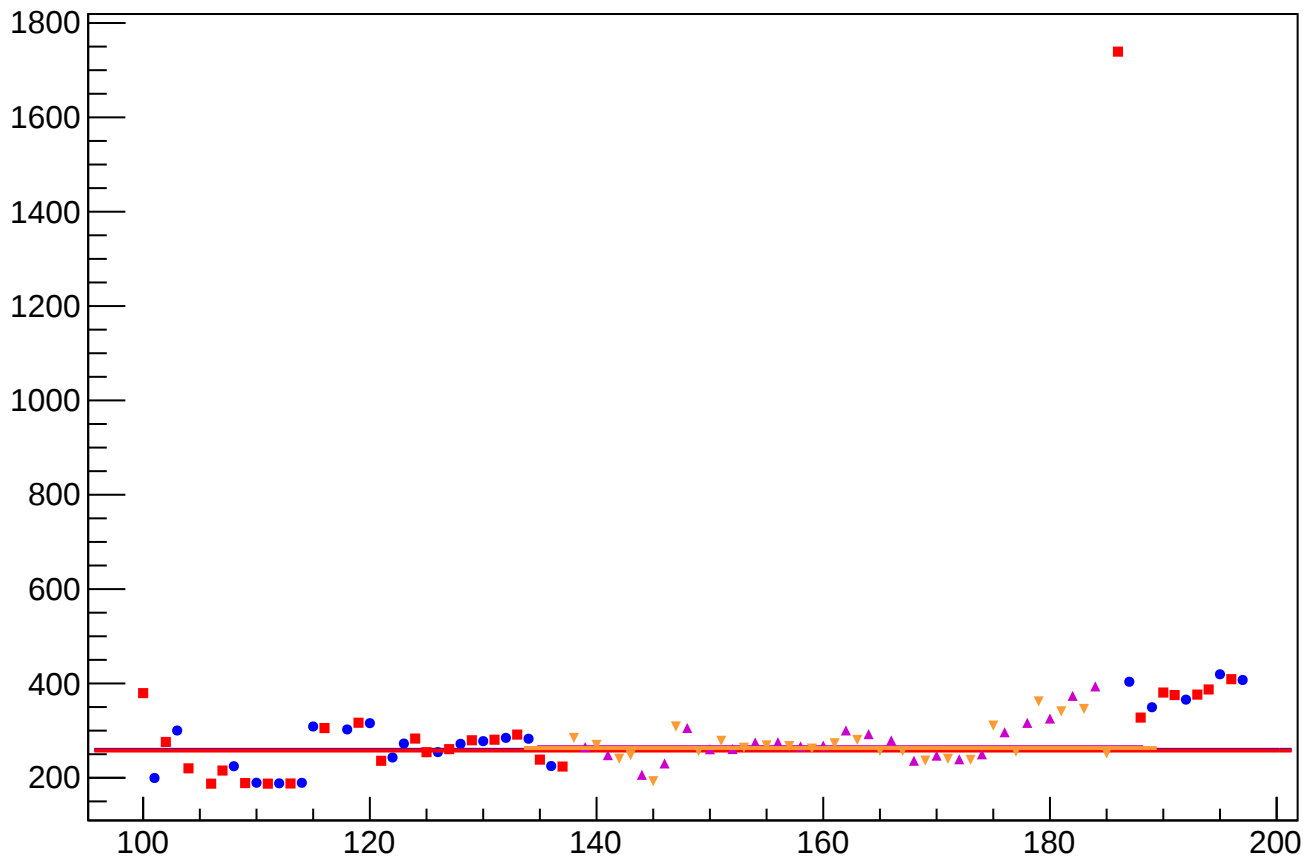
Right: 109.617 $\pm$ 58.873 χ^2/NDF : 34.4/47

In: 192.256 $\pm$ 51.444 χ^2/NDF : 45.8/44

Out: 300.370 $\pm$ 49.127 χ^2/NDF : 47.9/50

All: 248.802 $\pm$ 35.529 χ^2/NDF : 96.1/95

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 259.258+/-0.061 χ^2/NDF : 1189676.1/21

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

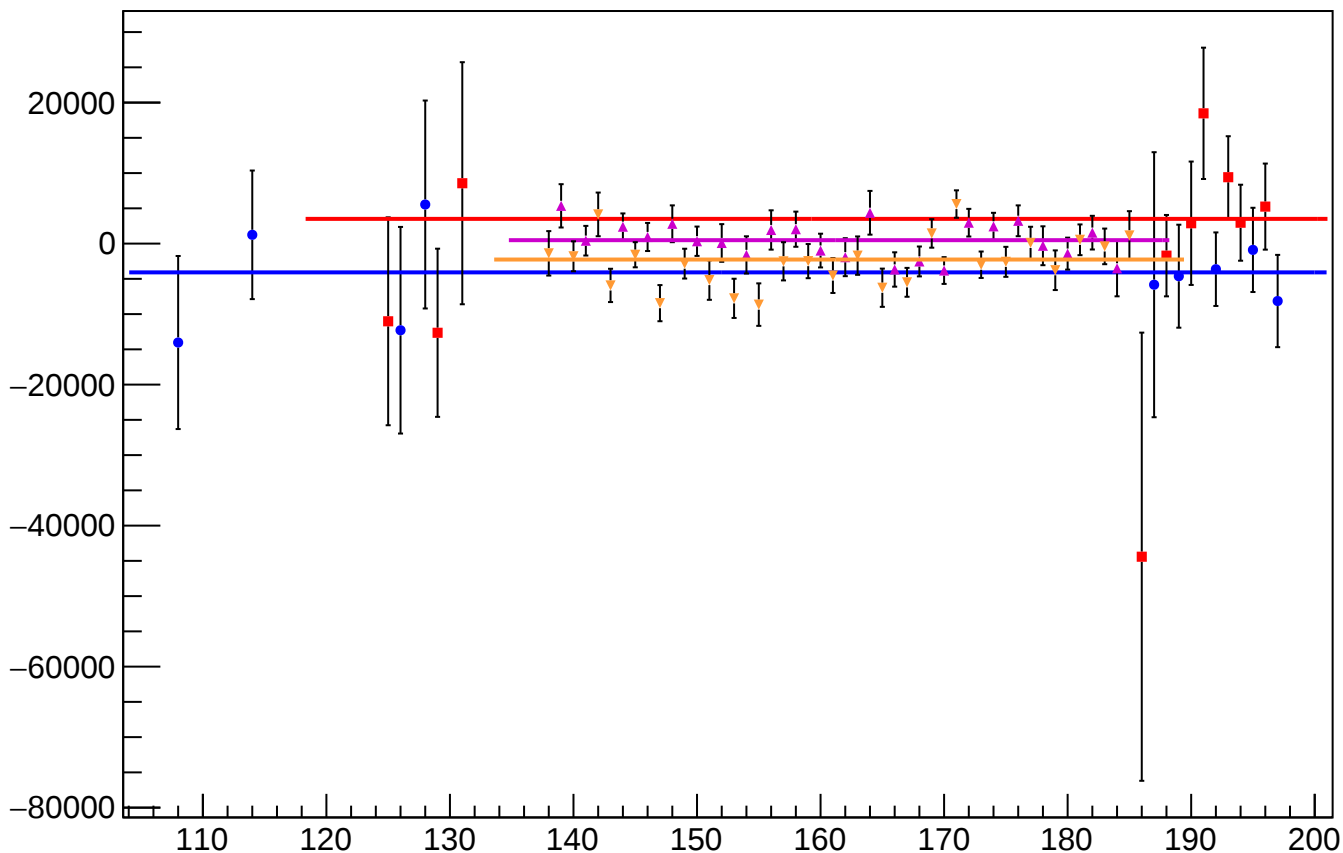
Right: 258.504+/-0.042 χ^2/NDF : 3078562.8/47

In: 262.902+/-0.036 χ^2/NDF : 1804265.3/44

Out: 261.151+/-0.035 χ^2/NDF : 2536177.5/50

All: 261.986+/-0.025 χ^2/NDF : 4341655.3/95

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4082.054 ± 2695.485 $\chi^2/\text{NDF}: 2.4/8$

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 $\chi^2/\text{NDF}: 93.4/47$

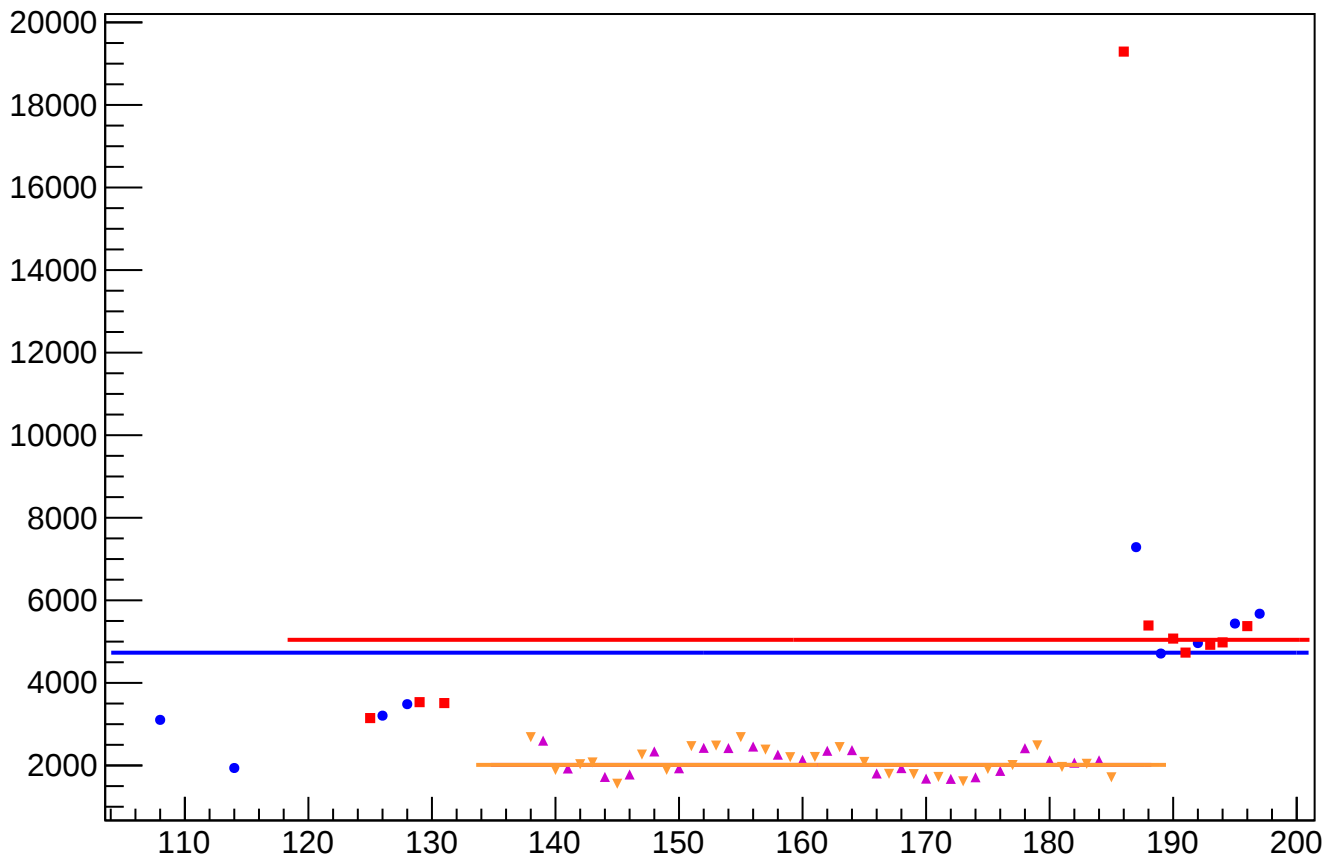
Right: 14.849 ± 1828.450 $\chi^2/\text{NDF}: 16.4/18$

In: 340.936 ± 479.684 $\chi^2/\text{NDF}: 30.0/31$

Out: -2057.194 ± 466.895 $\chi^2/\text{NDF}: 67.2/34$

All: -890.526 ± 334.575 $\chi^2/\text{NDF}: 110.0/66$

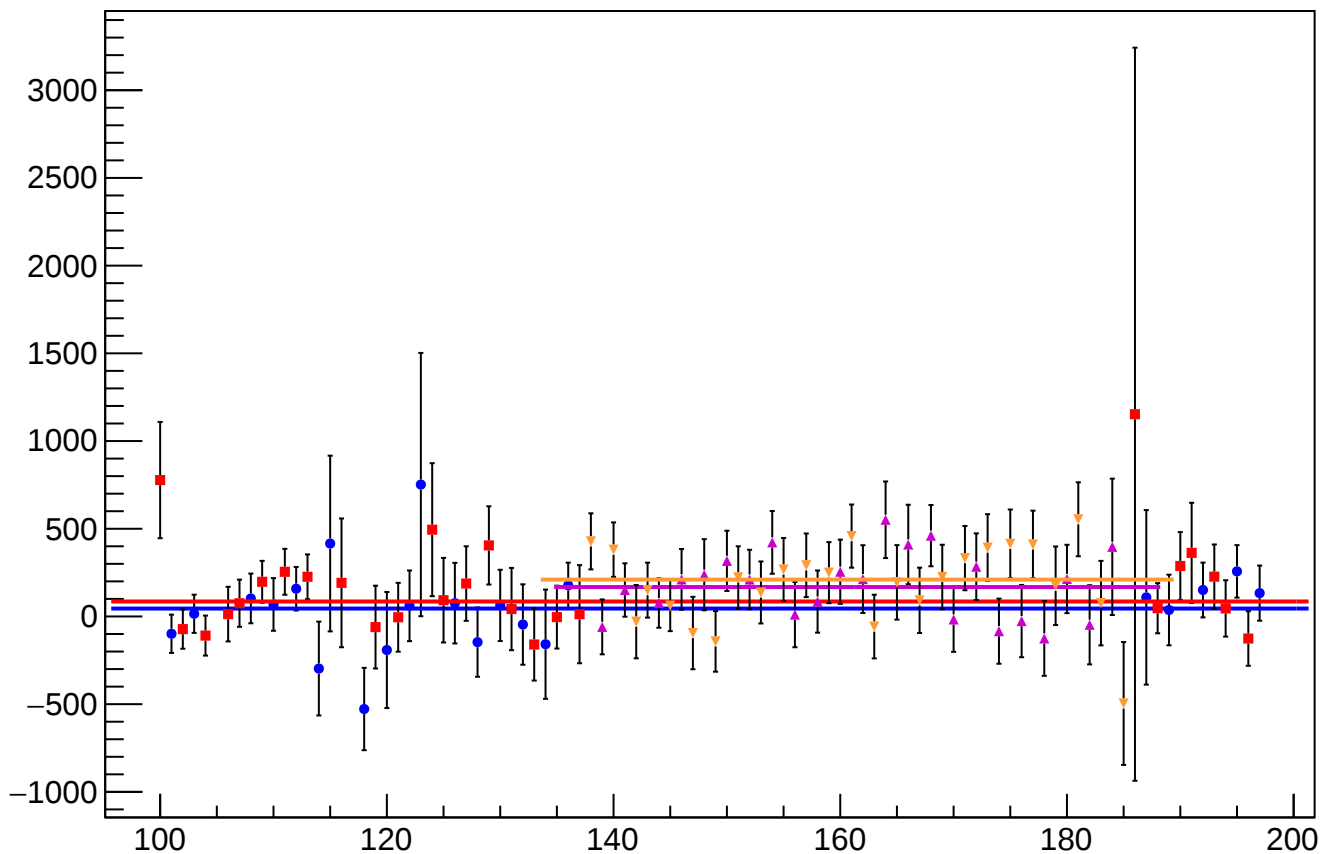
asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4731.790 $\pm$ 1.906 χ^2 /NDF: 369309.7/8
 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: 4900.102 $\pm$ 1.293 χ^2 /NDF: 883235.1/18
 In: 2099.339 $\pm$ 0.339 χ^2 /NDF: 3001326.0/31
 Out: 2120.744 $\pm$ 0.330 χ^2 /NDF: 4194764.0/34
 All: 2110.331 $\pm$ 0.237 χ^2 /NDF: 7198135.0/60

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 45.119+/-37.473 χ^2/NDF : 17.8/21

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

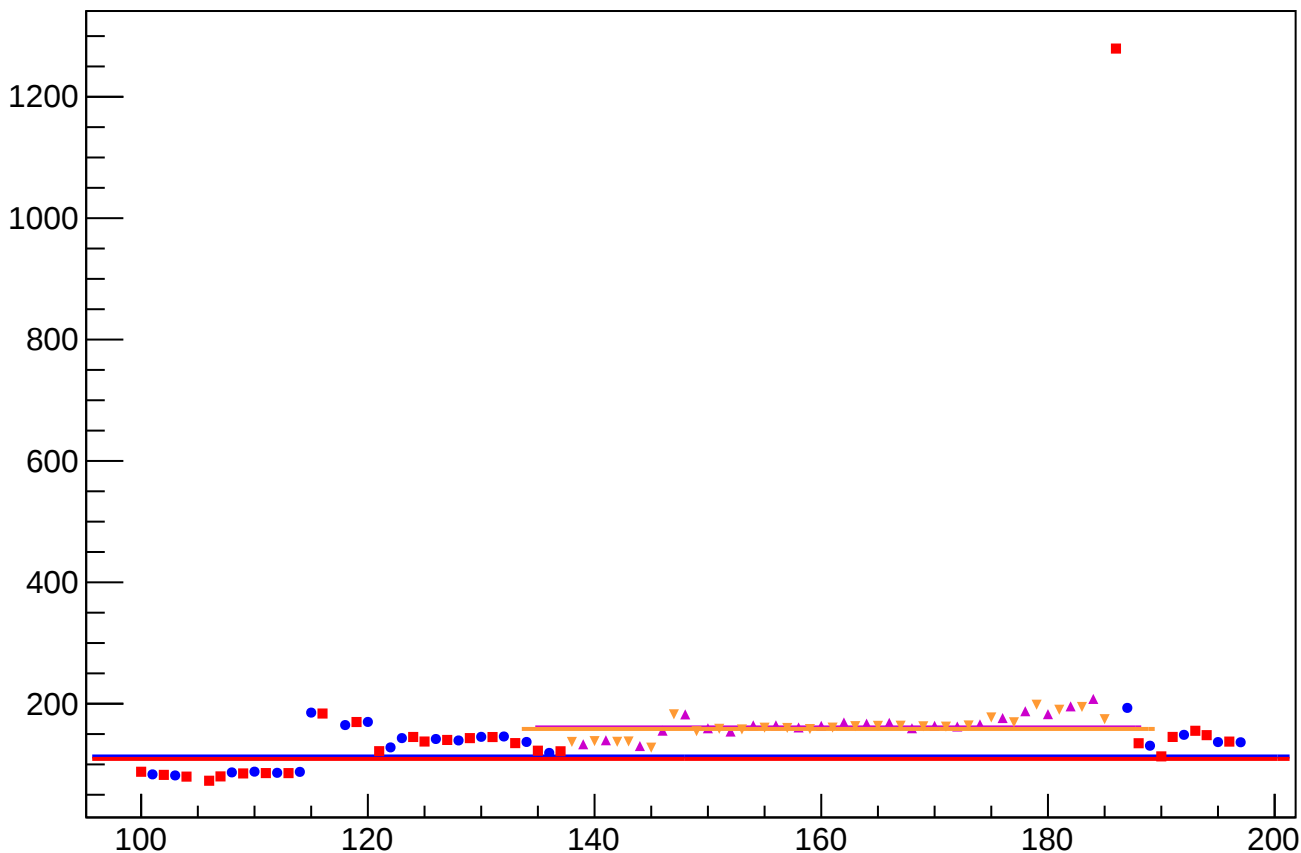
Right: 67.055+/-25.267 χ^2/NDF : 42.4/47

In: 104.466+/-26.927 χ^2/NDF : 44.1/44

Out: 142.689+/-25.150 χ^2/NDF : 57.7/50

All: 124.880+/-18.380 χ^2/NDF : 102.8/95

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 113.070 $\pm$ 0.026 χ^2 /NDF: 1201182.0/21

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 109.075 $\pm$ 0.024 χ^2 /NDF: 2155013.9/25

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

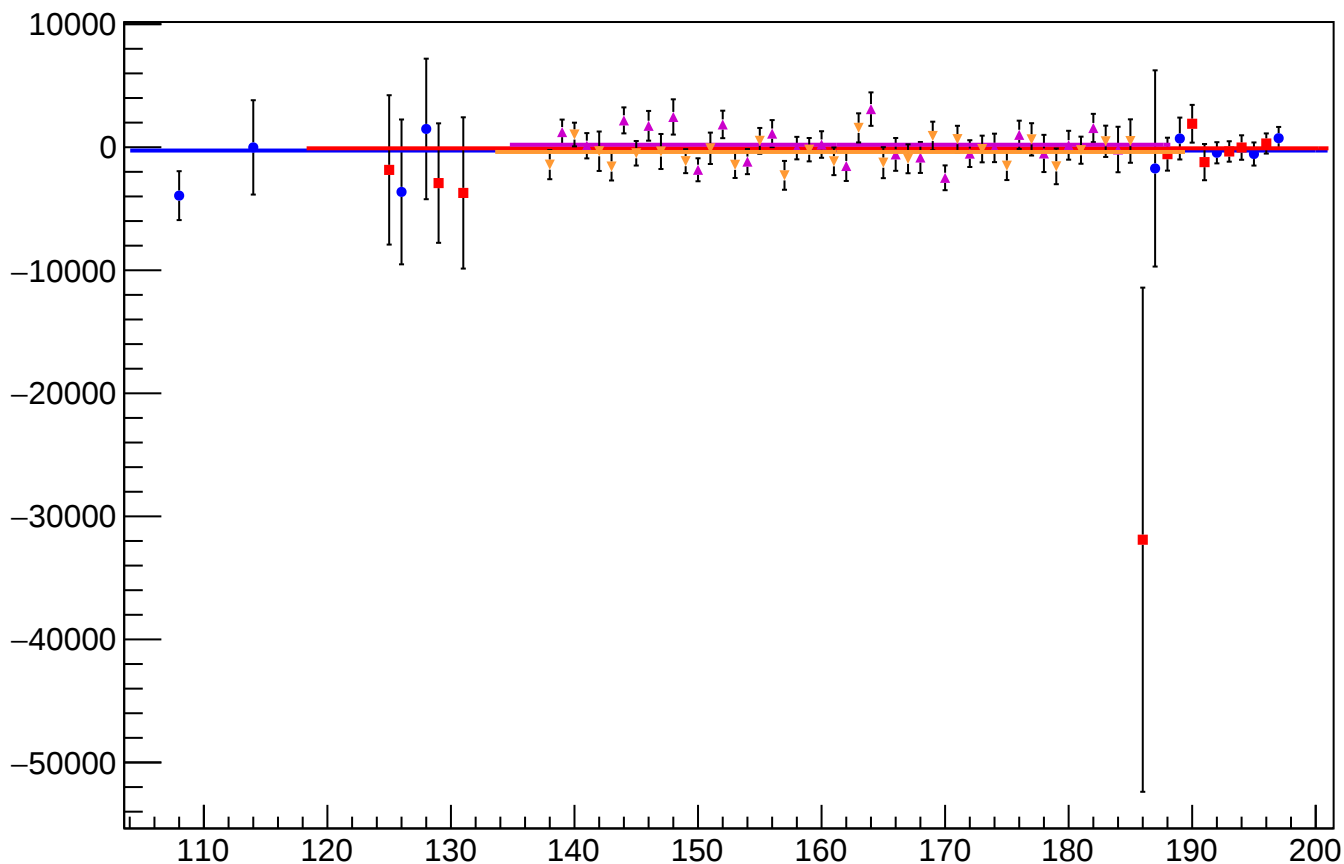
Right: 110.891 $\pm$ 0.018 χ^2 /NDF: 3368593.7/47

In: 136.226 $\pm$ 0.019 χ^2 /NDF: 3159961.2/44

Out: 131.769 $\pm$ 0.018 χ^2 /NDF: 4503176.2/50

All: 133.846 $\pm$ 0.013 χ^2 /NDF: 7692414.3/95

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -269.224 $\pm$ 475.585 χ^2 /NDF: 5.5/8

Left Out: -385.018 $\pm$ 231.833 χ^2 /NDF:18.1/24

Right Out: -88.435 $\pm$ 426.657 χ^2 /NDF: 5.9/9

Left In: 202.234 $\pm$ 237.460 χ^2 /NDF:35.5/22

Left: -98.432 $\pm$ 165.884 χ^2 /NDF: 56.7/47

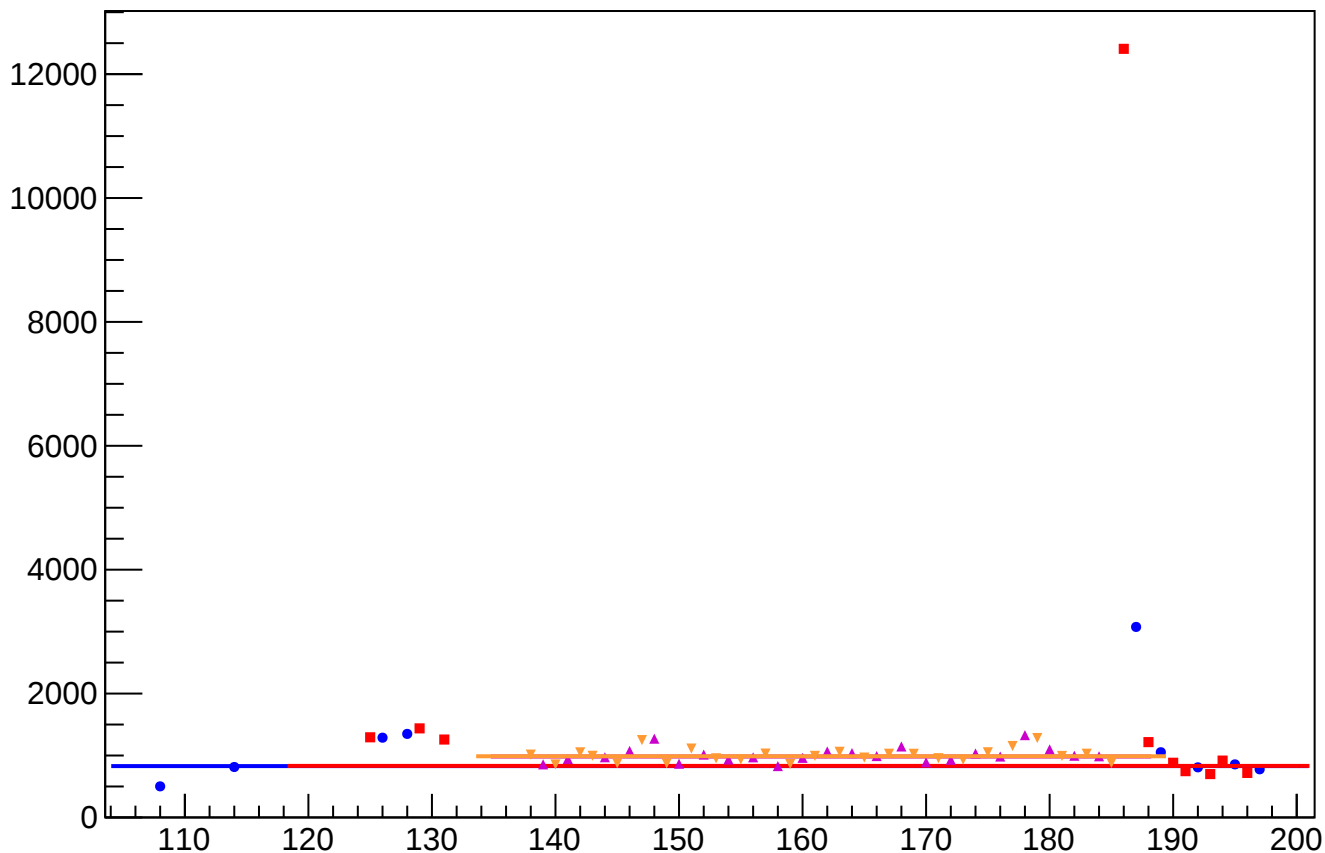
Right: -169.055 $\pm$ 317.586 χ^2 /NDF: 11.5/18

In: 108.153 $\pm$ 212.450 χ^2 /NDF:41.8/31

Out: -317.412 $\pm$ 203.704 χ^2 /NDF:24.3/34

All: -113.570 $\pm$ 147.035 χ^2 /NDF: 68.2/66

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 829.160+/-0.336 χ^2/NDF : 285558.6/8

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

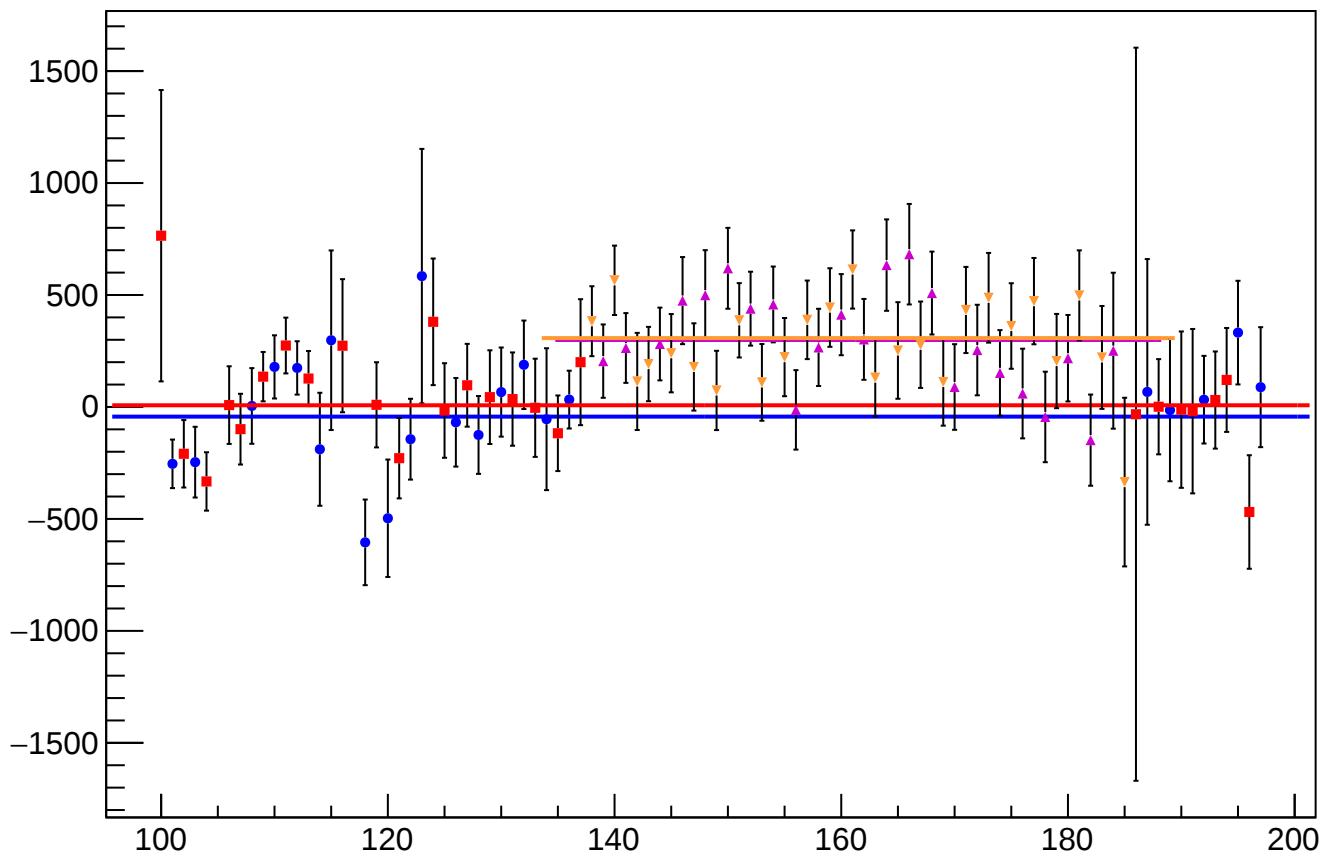
Right: 830.880+/-0.225 χ^2/NDF : 1253701.3/18

In: 953.016+/-0.150 χ^2/NDF : 871287.2/31

Out: 952.399+/-0.144 χ^2/NDF : 1550435.0/34

All: 952.694+/-0.104 χ^2/NDF : 2421730.9/66

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -43.161 $\pm$ 39.860 χ^2/NDF : 30.9/21

Left Out: 307.487 $\pm$ 37.278 χ^2/NDF : 20.7/24

Right Out: 7.523 $\pm$ 36.926 χ^2/NDF : 26.9/25

Left In: 299.192 $\pm$ 39.009 χ^2/NDF : 28.5/22

Left: 303.528 $\pm$ 26.951 χ^2/NDF : 49.3/47

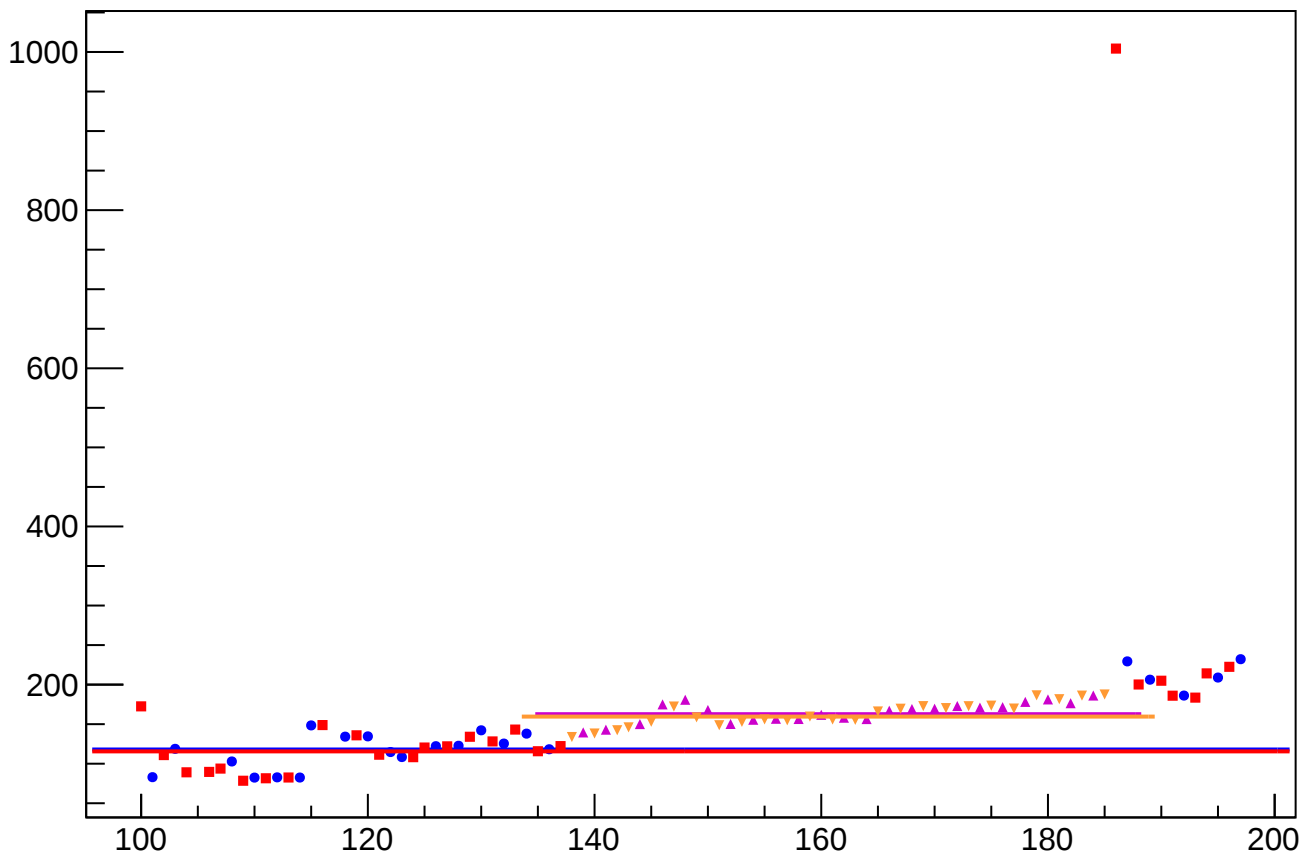
Right: -15.885 $\pm$ 27.088 χ^2/NDF : 58.7/47

In: 131.708 $\pm$ 27.879 χ^2/NDF : 97.1/44

Out: 156.084 $\pm$ 26.234 χ^2/NDF : 80.3/50

All: 144.636 $\pm$ 19.105 χ^2/NDF : 177.8/95

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 117.959 $\pm$ 0.028 χ^2 /NDF: 1784225.8/21

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 115.576 $\pm$ 0.026 χ^2 /NDF: 2835613.2/25

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

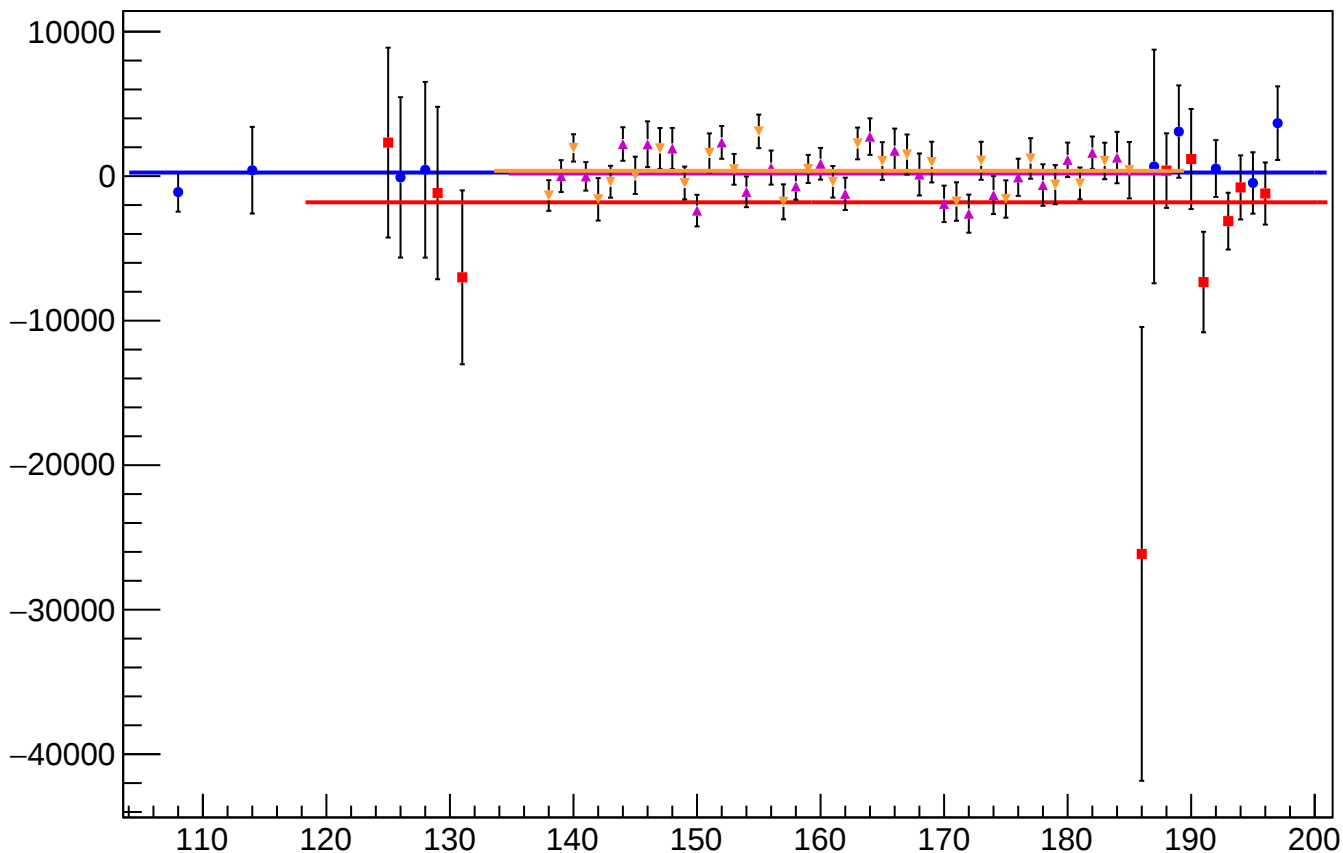
Right: 116.677 $\pm$ 0.019 χ^2 /NDF: 4623683.4/47

In: 140.764 $\pm$ 0.020 χ^2 /NDF: 3265517.0/44

Out: 137.364 $\pm$ 0.019 χ^2 /NDF: 4529243.6/50

All: 138.961 $\pm$ 0.014 χ^2 /NDF: 7810537.6/95

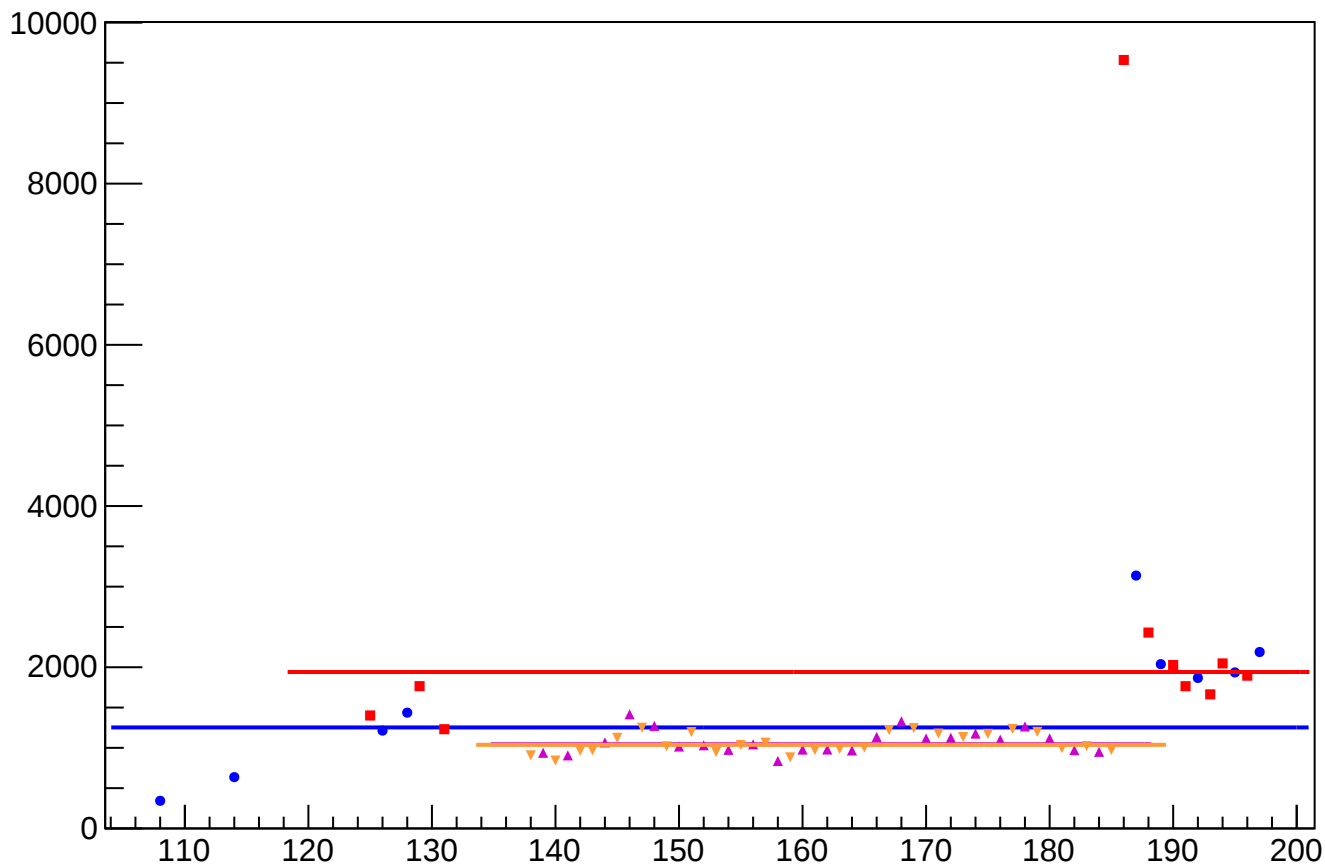
asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 250.691 $\pm$ 827.290 χ^2 /NDF: 3.7/8
 Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24
 Right Out: -1809.876 $\pm$ 963.141 χ^2 /NDF: 8.3/9
 Left In: 183.107 $\pm$ 252.258 χ^2 /NDF:36.5/22

Left: 279.847 $\pm$ 175.203 χ^2 /NDF: 67.2/47
 Right: -624.140 $\pm$ 627.565 χ^2 /NDF: 14.6/18
 In: 188.856 $\pm$ 241.290 χ^2 /NDF:40.2/31
 Out: 239.019 $\pm$ 236.091 χ^2 /NDF:43.6/34
 All: 214.484 $\pm$ 168.750 χ^2 /NDF: 83.8/66

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1253.300+/-0.585 χ^2/NDF : 1887084.4/8

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1940.911+/-0.681 χ^2/NDF : 634428.8/9

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

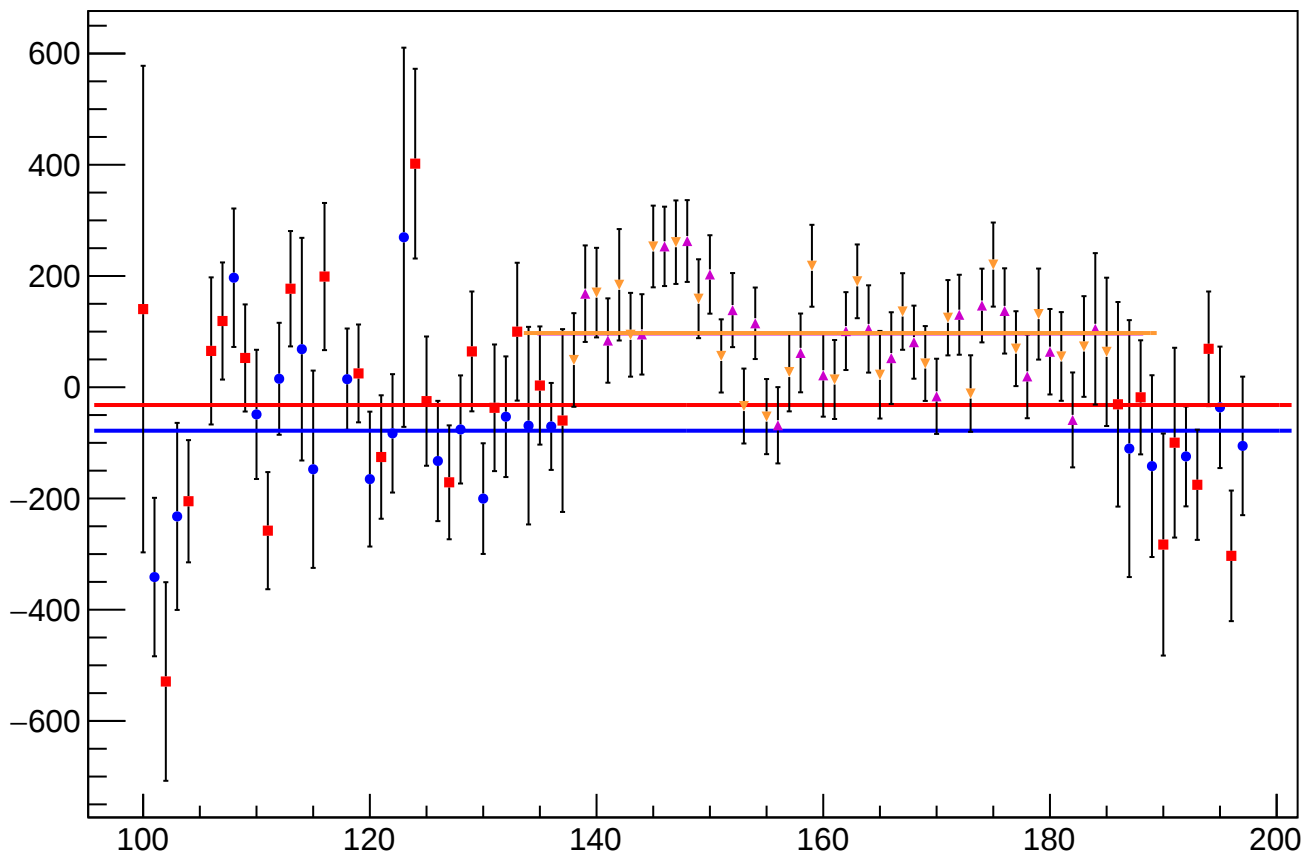
Right: 1545.231+/-0.444 χ^2/NDF : 3108106.2/18

In: 1062.487+/-0.171 χ^2/NDF : 2546689.9/31

Out: 1091.961+/-0.167 χ^2/NDF : 2782614.6/34

All: 1077.545+/-0.119 χ^2/NDF : 5344550.5/60

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -78.172 ± 25.275 χ^2/NDF : 15.8/21

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

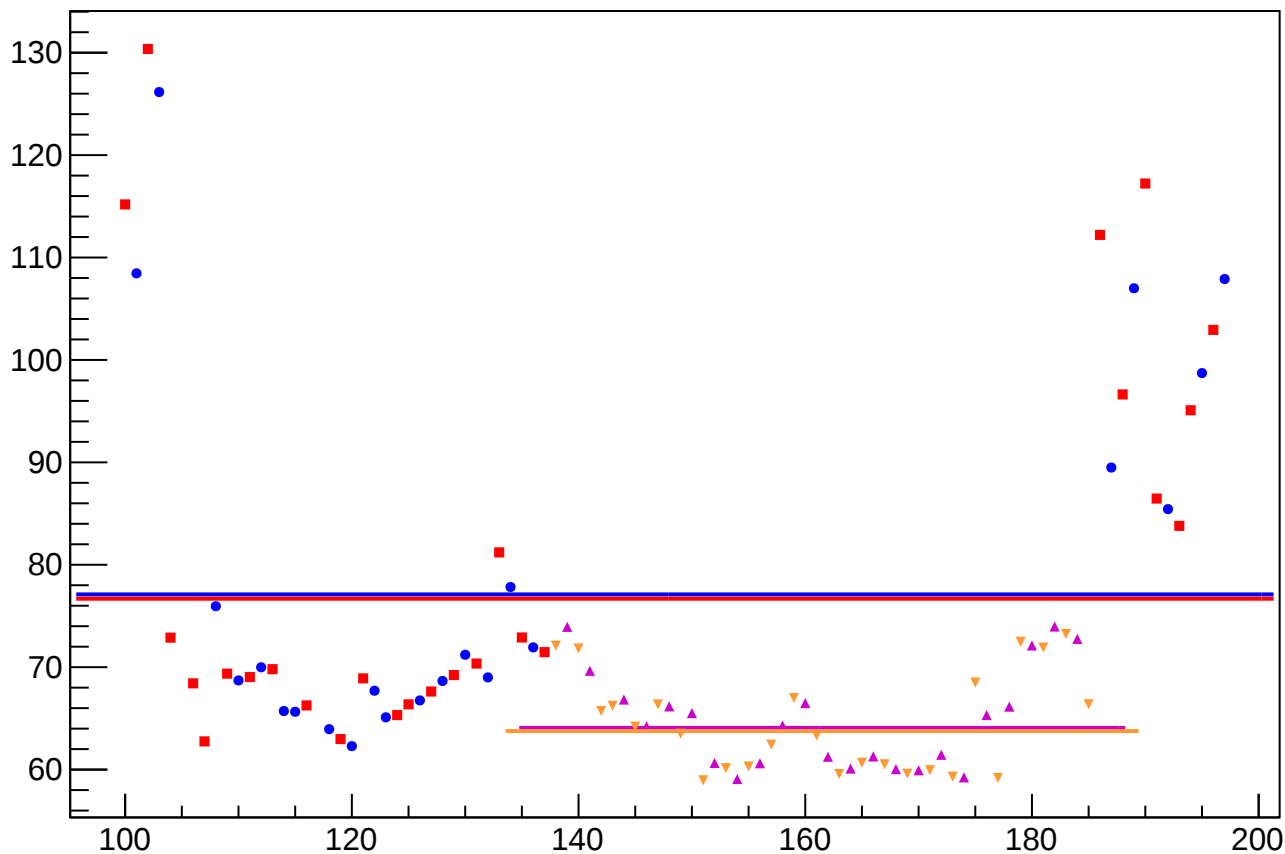
Right: -53.232 ± 17.147 χ^2/NDF : 64.7/47

In: 49.496 ± 13.132 χ^2/NDF : 80.0/44

Out: 60.047 ± 12.547 χ^2/NDF : 105.0/50

All: 55.012 ± 9.072 χ^2/NDF : 185.3/95

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.105+/-0.018 χ^2/NDF : 743110.2/21

Left Out: 63.761+/-0.011 χ^2/NDF : 192803.8/24

Right Out: 76.687+/-0.017 χ^2/NDF : 819885.0/25

Left In: 64.069+/-0.011 χ^2/NDF : 164660.4/22

Left: 63.910+/-0.008 χ^2/NDF : 357877.2/47

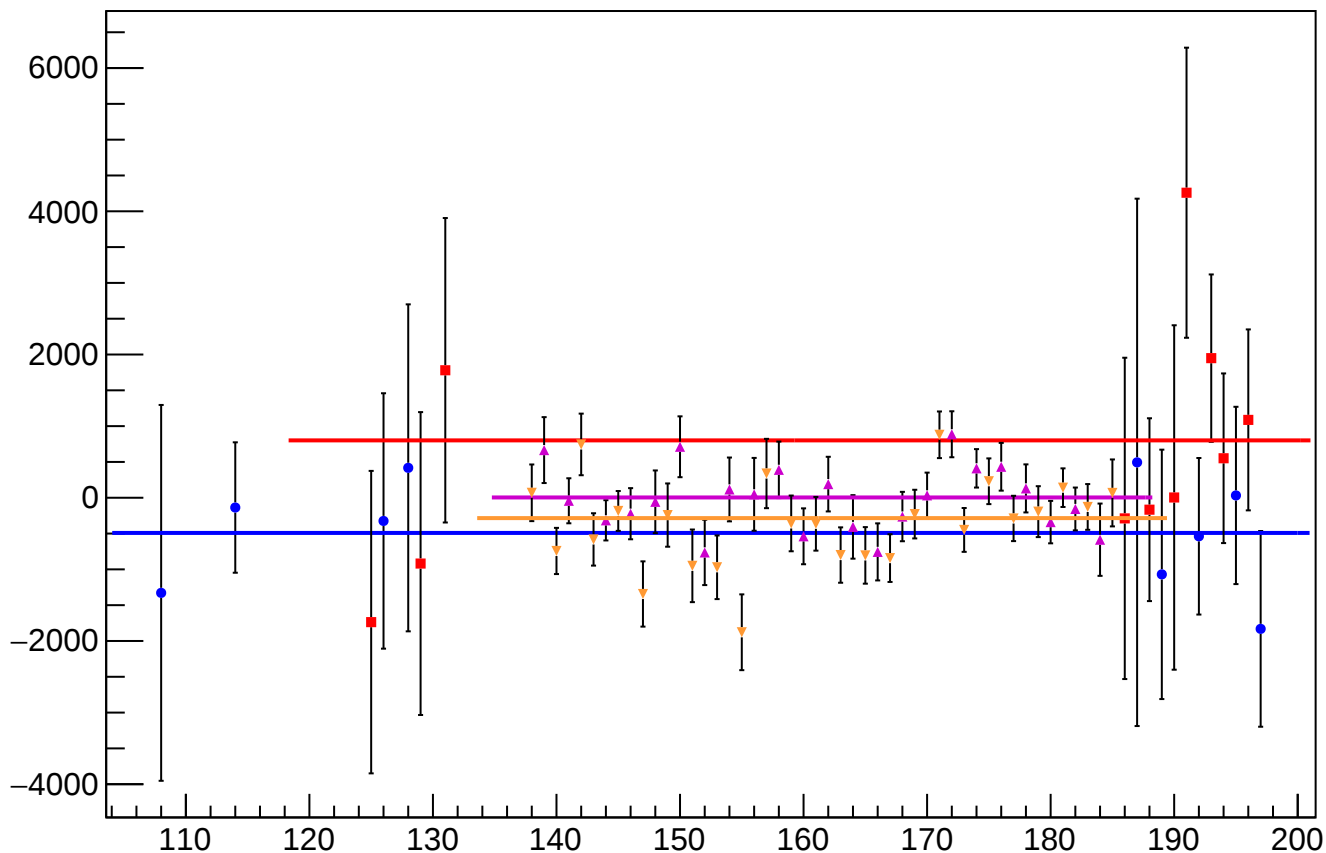
Right: 76.879+/-0.012 χ^2/NDF : 1563289.6/47

In: 67.588+/-0.009 χ^2/NDF : 1296199.3/44

Out: 67.497+/-0.009 χ^2/NDF : 1448872.6/50

All: 67.540+/-0.006 χ^2/NDF : 2745122.1/95

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -491.252 ± 482.997 $\chi^2/\text{NDF}: 1.7/8$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 800.952 ± 501.908 $\chi^2/\text{NDF}: 7.2/9$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

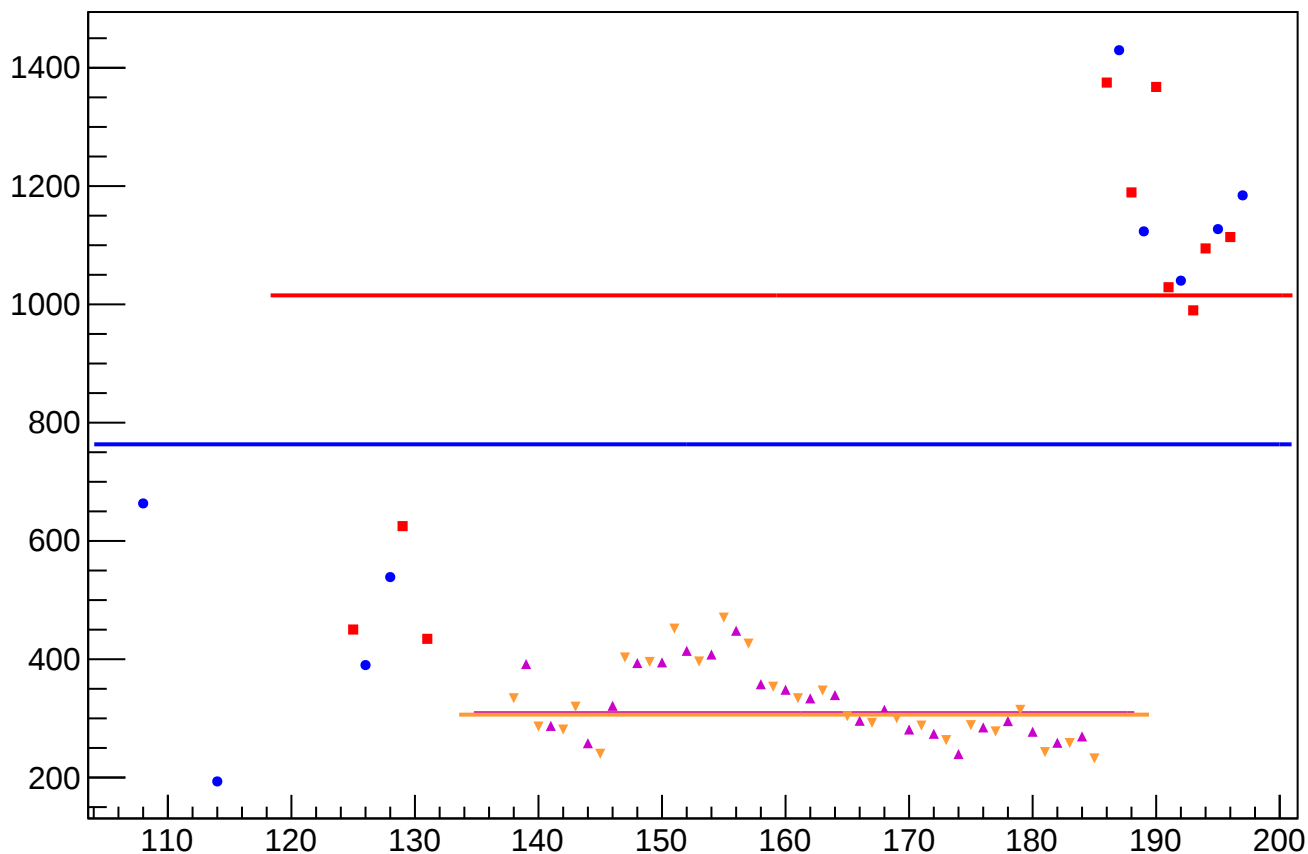
Right: 130.047 ± 348.024 $\chi^2/\text{NDF}: 12.4/18$

In: -7.650 ± 74.193 $\chi^2/\text{NDF}: 35.1/31$

Out: -261.983 ± 71.981 $\chi^2/\text{NDF}: 66.8/34$

All: -138.665 ± 51.662 $\chi^2/\text{NDF}: 108.0/66$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 763.378+/-0.342 χ^2/NDF : 1535410.9/8

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

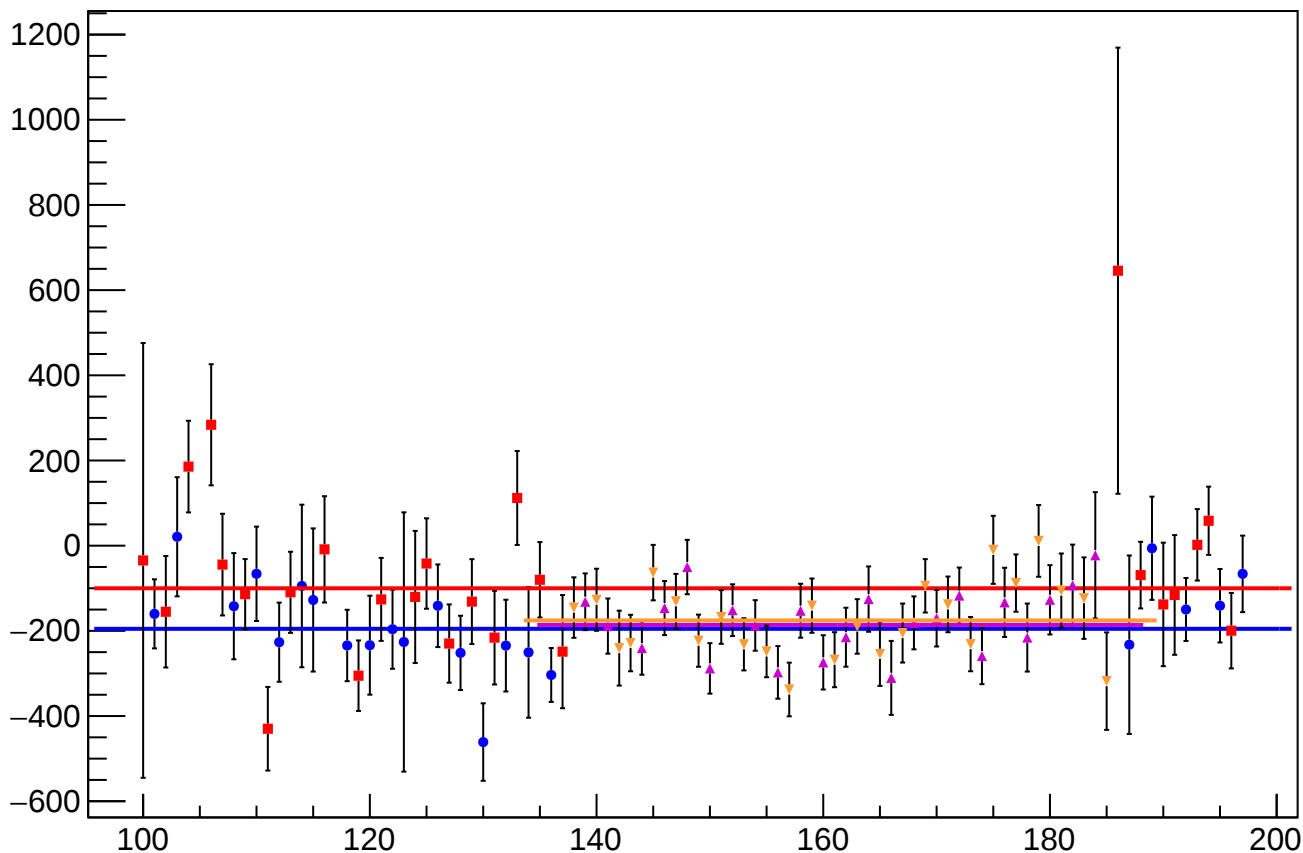
Right: 884.463+/-0.246 χ^2/NDF : 2311123.5/18

In: 319.455+/-0.052 χ^2/NDF : 4268685.9/31

Out: 320.942+/-0.051 χ^2/NDF : 5637169.0/34

All: 320.221+/-0.037 χ^2/NDF : 9906269.2/66

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -195.204 ± 21.617 χ^2/NDF : 22.8/21

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

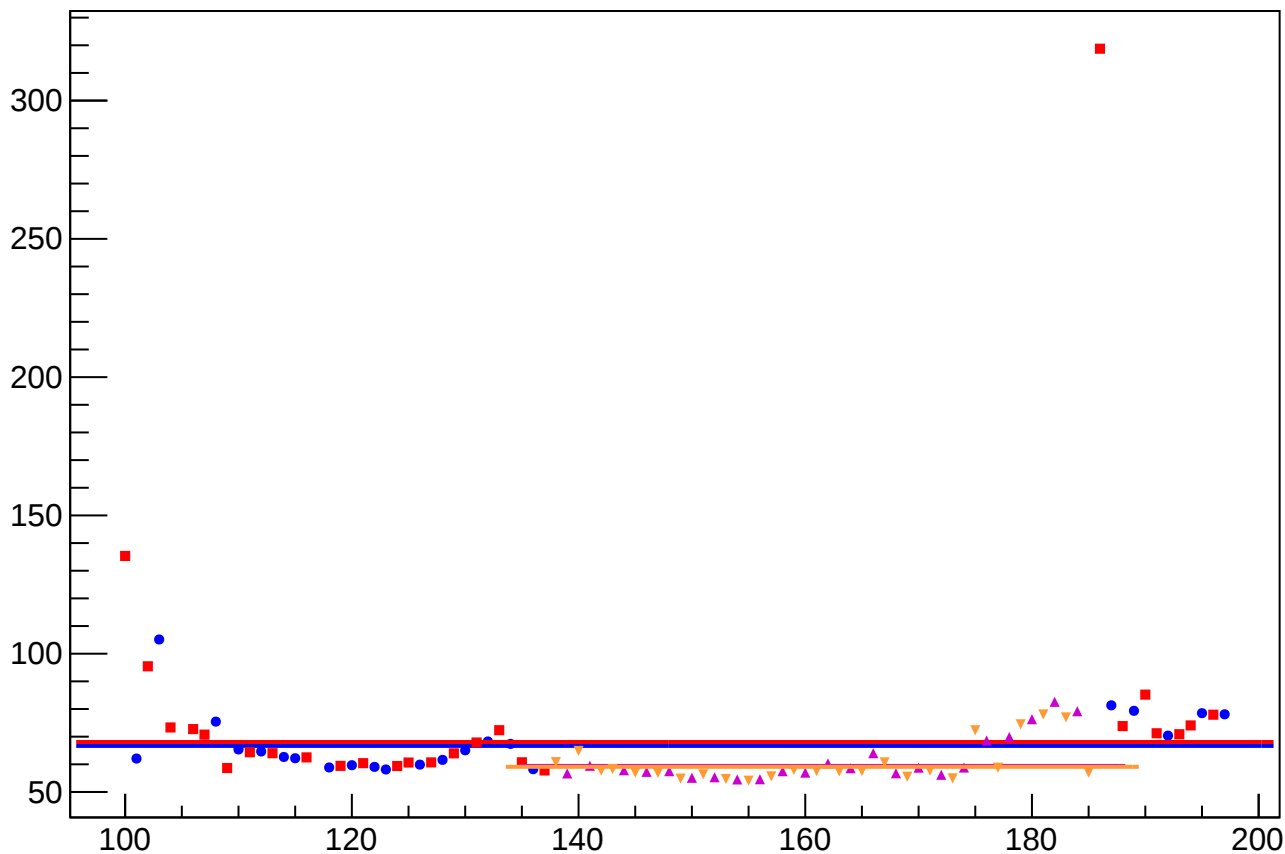
Right: -145.556 ± 14.951 χ^2/NDF : 83.2/47

In: -188.839 ± 11.936 χ^2/NDF : 46.5/44

Out: -152.152 ± 11.508 χ^2/NDF : 94.1/50

All: -169.827 ± 8.285 χ^2/NDF : 145.4/95

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.665 $\pm$ 0.015 χ^2 /NDF: 370249.6/21

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

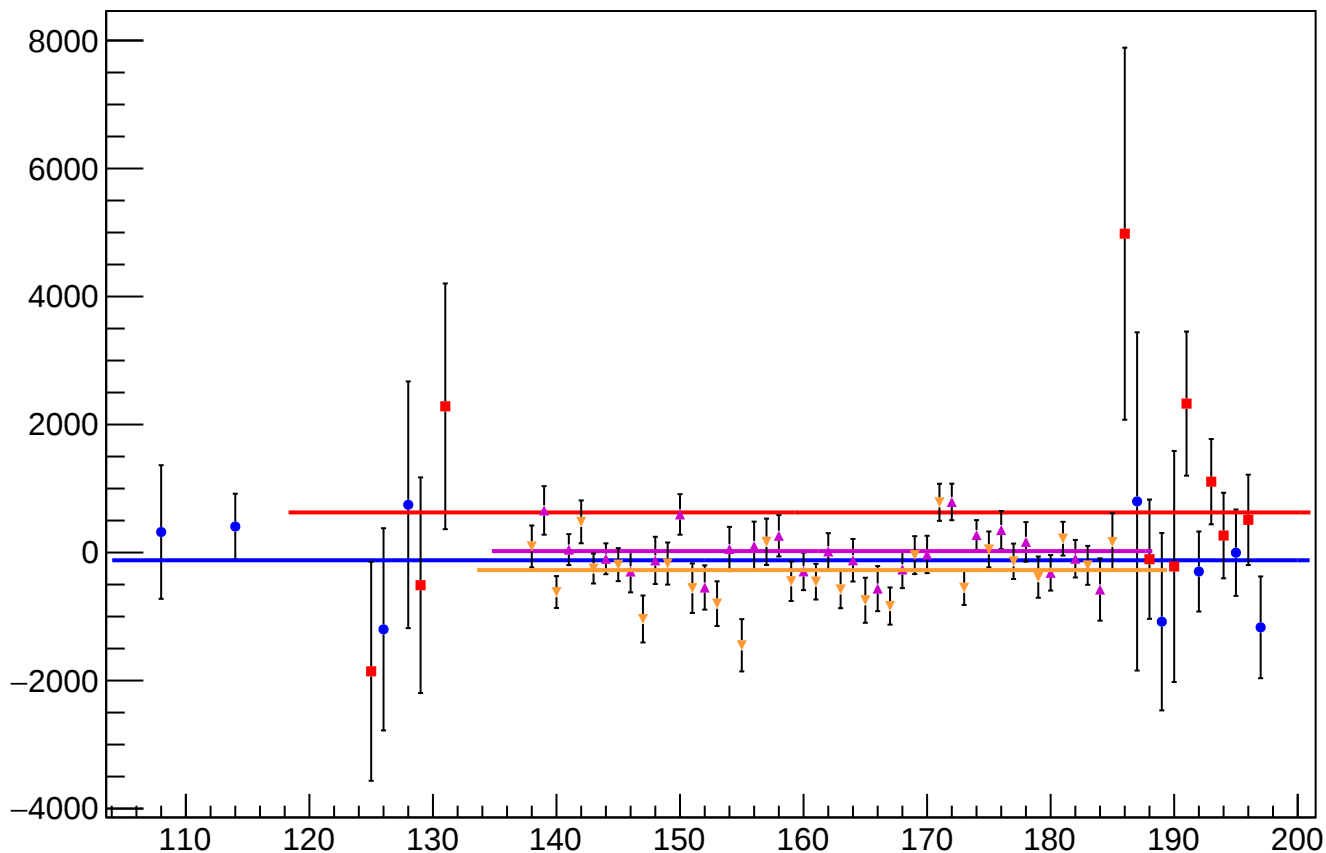
Right: 67.403 $\pm$ 0.011 χ^2 /NDF: 1172803.1/47

In: 61.622 $\pm$ 0.008 χ^2 /NDF: 899906.0/44

Out: 61.875 $\pm$ 0.008 χ^2 /NDF: 1427986.6/50

All: 61.753 $\pm$ 0.006 χ^2 /NDF: 2328359.9/95

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -120.683 ± 284.032 $\chi^2/\text{NDF}: 4.4/8$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 626.715 ± 318.965 $\chi^2/\text{NDF}: 9.5/9$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

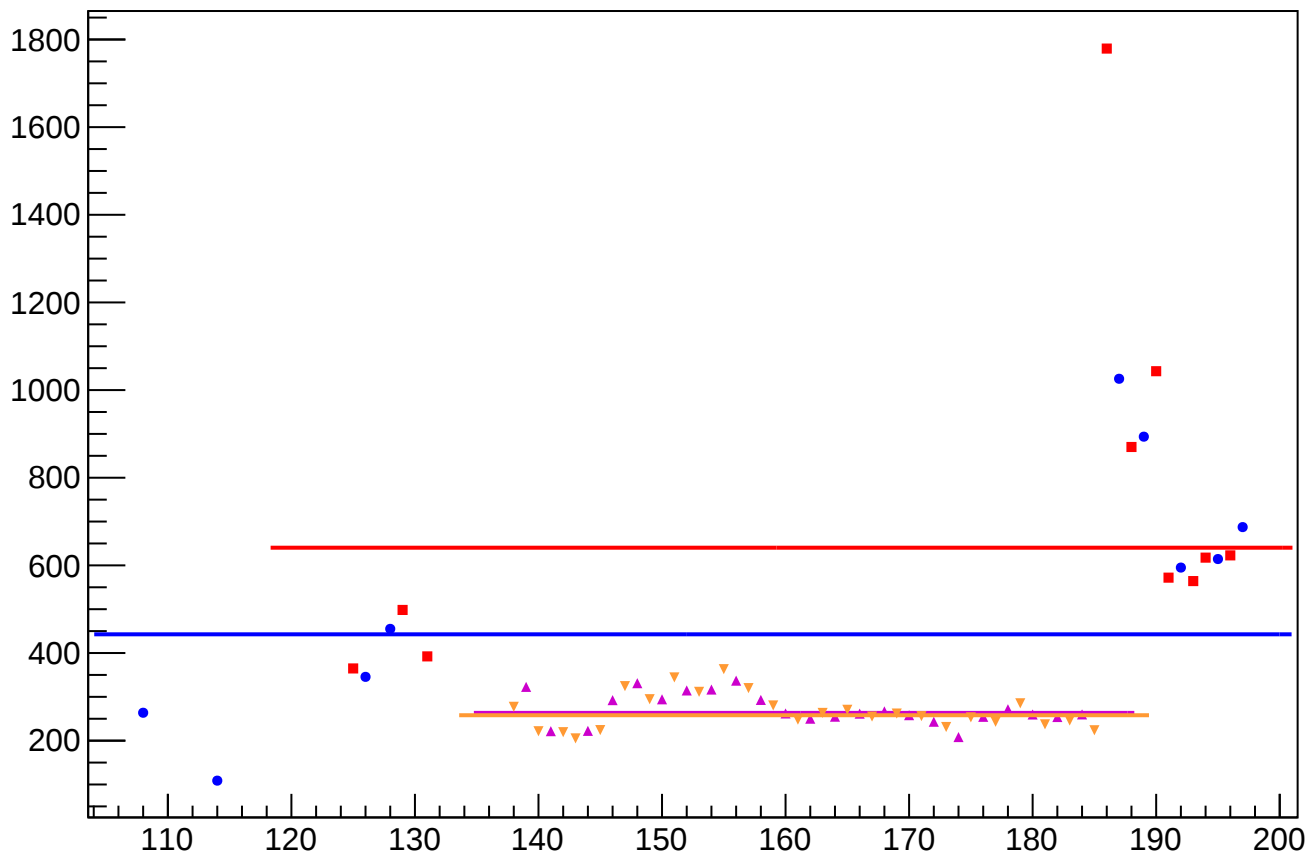
Right: 209.863 ± 212.121 $\chi^2/\text{NDF}: 16.9/18$

In: 15.779 ± 62.103 $\chi^2/\text{NDF}: 33.5/31$

Out: -242.509 ± 59.724 $\chi^2/\text{NDF}: 71.1/34$

All: -118.407 ± 43.048 $\chi^2/\text{NDF}: 113.6/66$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 442.683 $\pm$ 0.201 χ^2 /NDF: 1662709.3/8

Left Out: 258.040 $\pm$ 0.043 χ^2 /NDF: 724823.3/24

Right Out: 640.326 $\pm$ 0.226 χ^2 /NDF: 664862.3/9

Left In: 263.397 $\pm$ 0.045 χ^2 /NDF: 585600.2/22

Left: 260.596 $\pm$ 0.031 χ^2 /NDF: 1317830.8/47

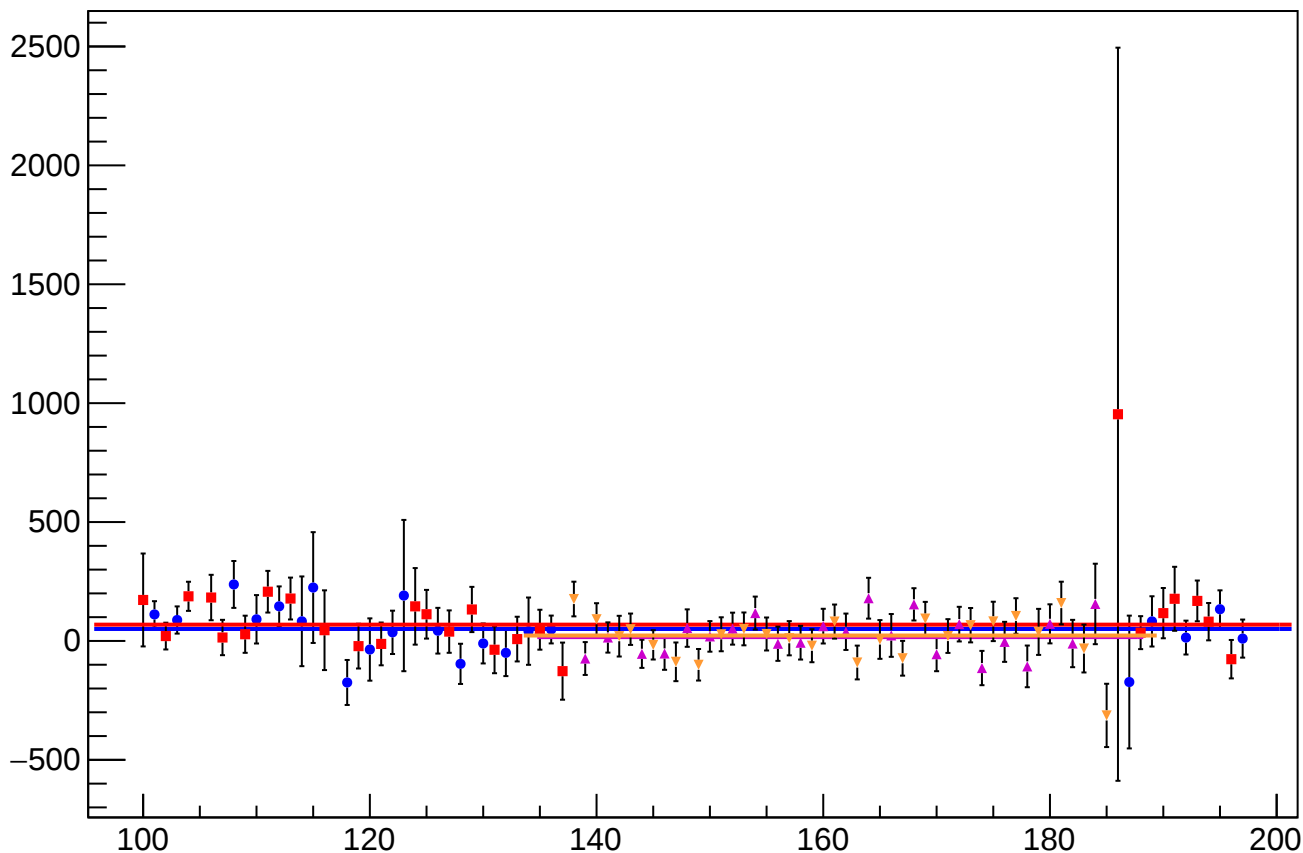
Right: 530.093 $\pm$ 0.150 χ^2 /NDF: 2755860.8/18

In: 271.968 $\pm$ 0.044 χ^2 /NDF: 3007087.3/31

Out: 271.443 $\pm$ 0.042 χ^2 /NDF: 4161864.5/34

All: 271.695 $\pm$ 0.030 χ^2 /NDF: 7169026.0/66

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 50.356 $\pm$ 19.006 χ^2 /NDF: 20.6/21

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

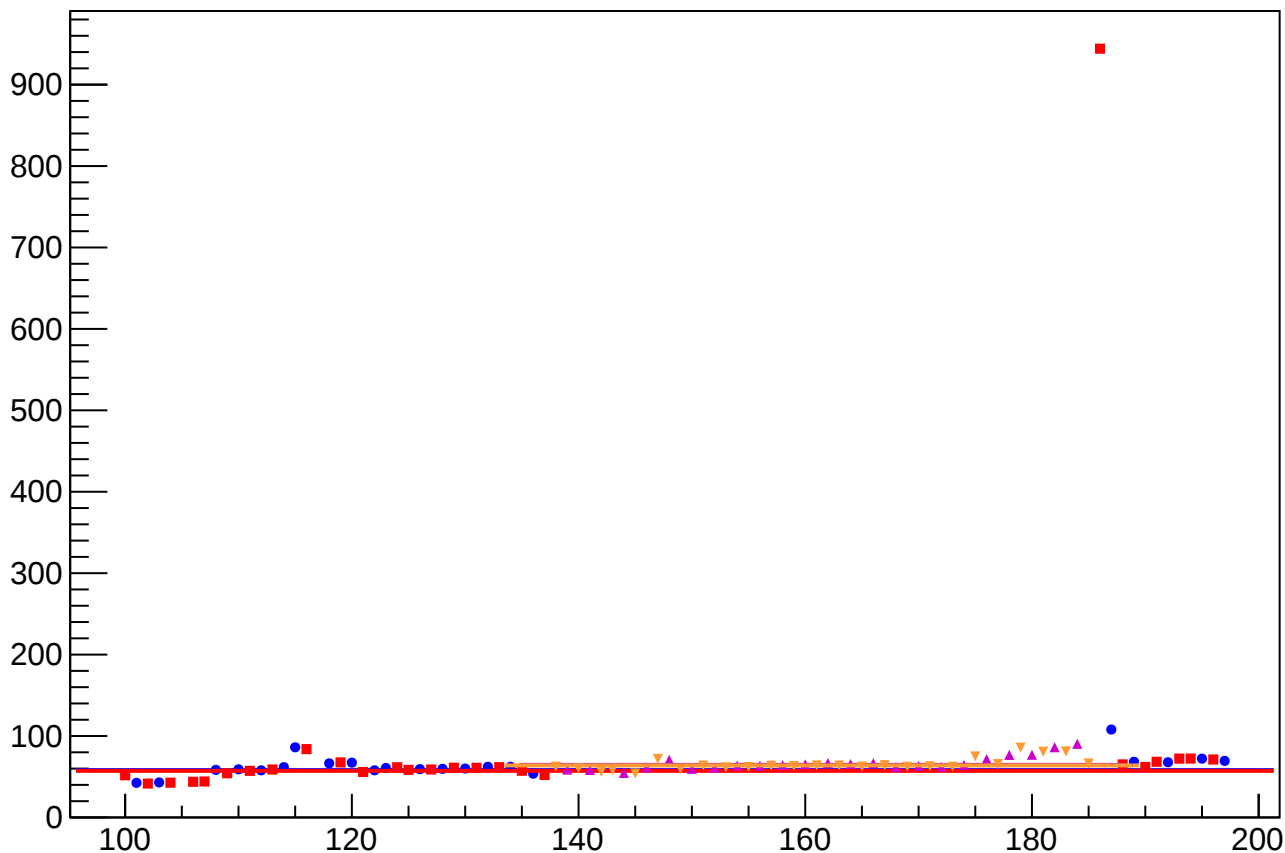
Right: 60.097 $\pm$ 12.948 χ^2 /NDF: 45.2/47

In: 29.874 $\pm$ 12.026 χ^2 /NDF:45.8/44

Out: 41.926 $\pm$ 11.426 χ^2 /NDF:57.0/50

All: 36.208 $\pm$ 8.283 χ^2 /NDF: 103.3/95

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 58.116 $\pm$ 0.013 χ^2 /NDF: 594422.9/21

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

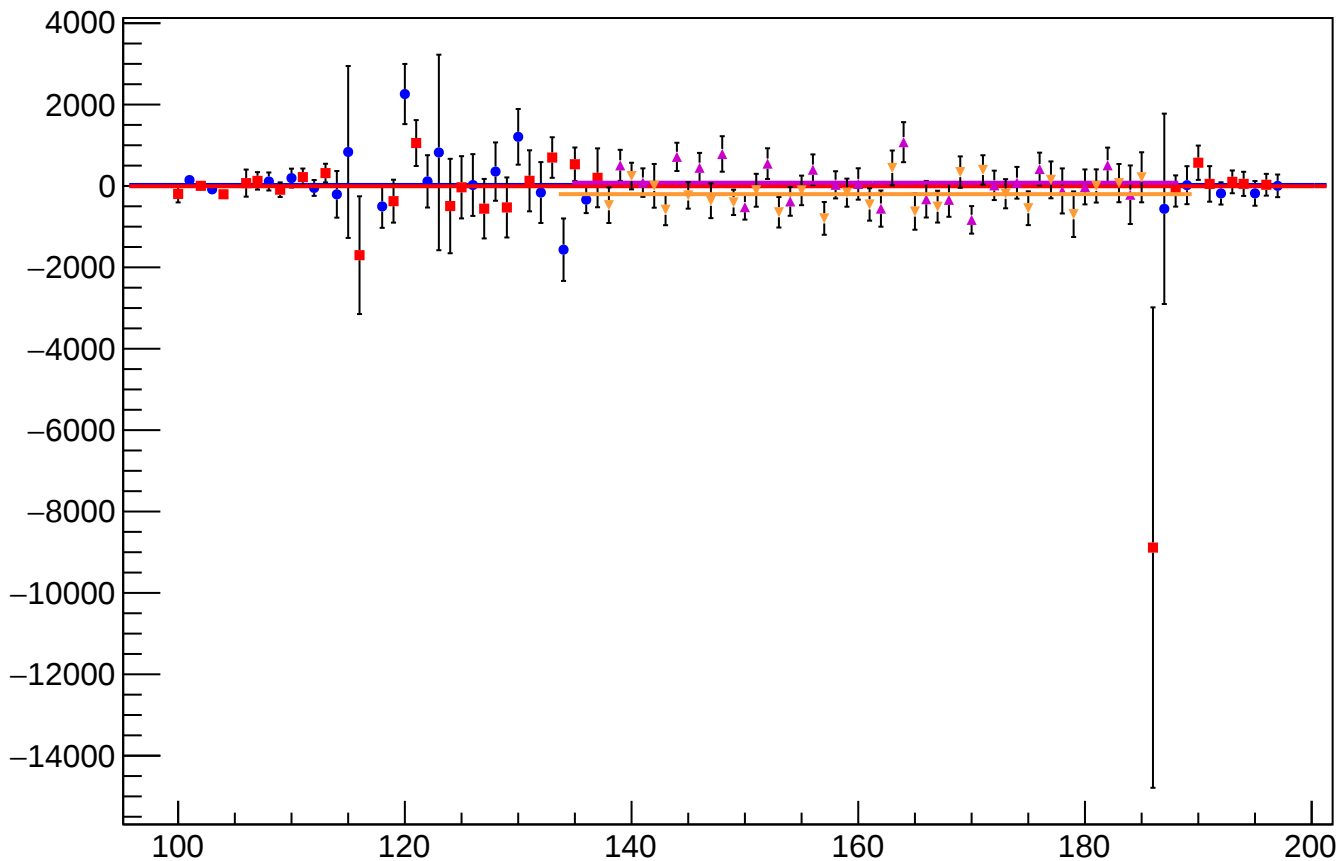
Right: 57.660 $\pm$ 0.009 χ^2 /NDF: 1962878.1/47

In: 61.951 $\pm$ 0.009 χ^2 /NDF: 1100682.8/44

Out: 61.143 $\pm$ 0.008 χ^2 /NDF: 1926710.2/50

All: 61.526 $\pm$ 0.006 χ^2 /NDF: 3032136.3/95

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 24.560+/-48.910 χ^2/NDF : 25.0/21

Left Out: -201.082+/-79.549 χ^2/NDF :19.7/24

Right Out: -7.020+/-49.508 χ^2/NDF : 23.3/25

Left In: 79.985+/-81.781 χ^2/NDF :33.4/22

Left: -64.438+/-57.022 χ^2/NDF : 59.1/47

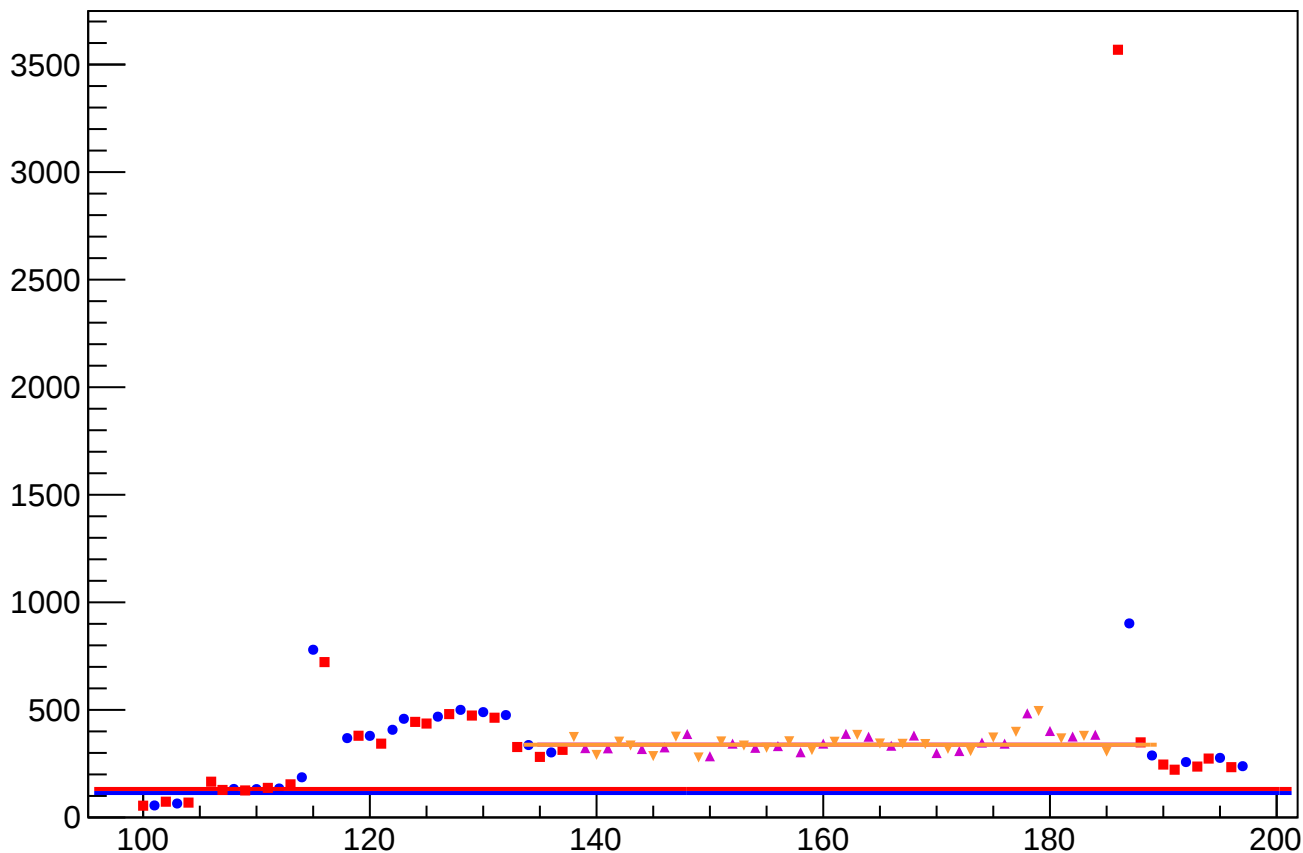
Right: 8.961+/-34.794 χ^2/NDF : 48.5/47

In: 39.161+/-41.976 χ^2/NDF :58.7/44

Out: -61.201+/-42.032 χ^2/NDF :47.3/50

All: -10.952+/-29.701 χ^2/NDF : 108.9/95

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 113.526+/-0.035 χ^2/NDF : 8051460.9/21

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 132.484+/-0.035 χ^2/NDF : 7857711.5/25

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

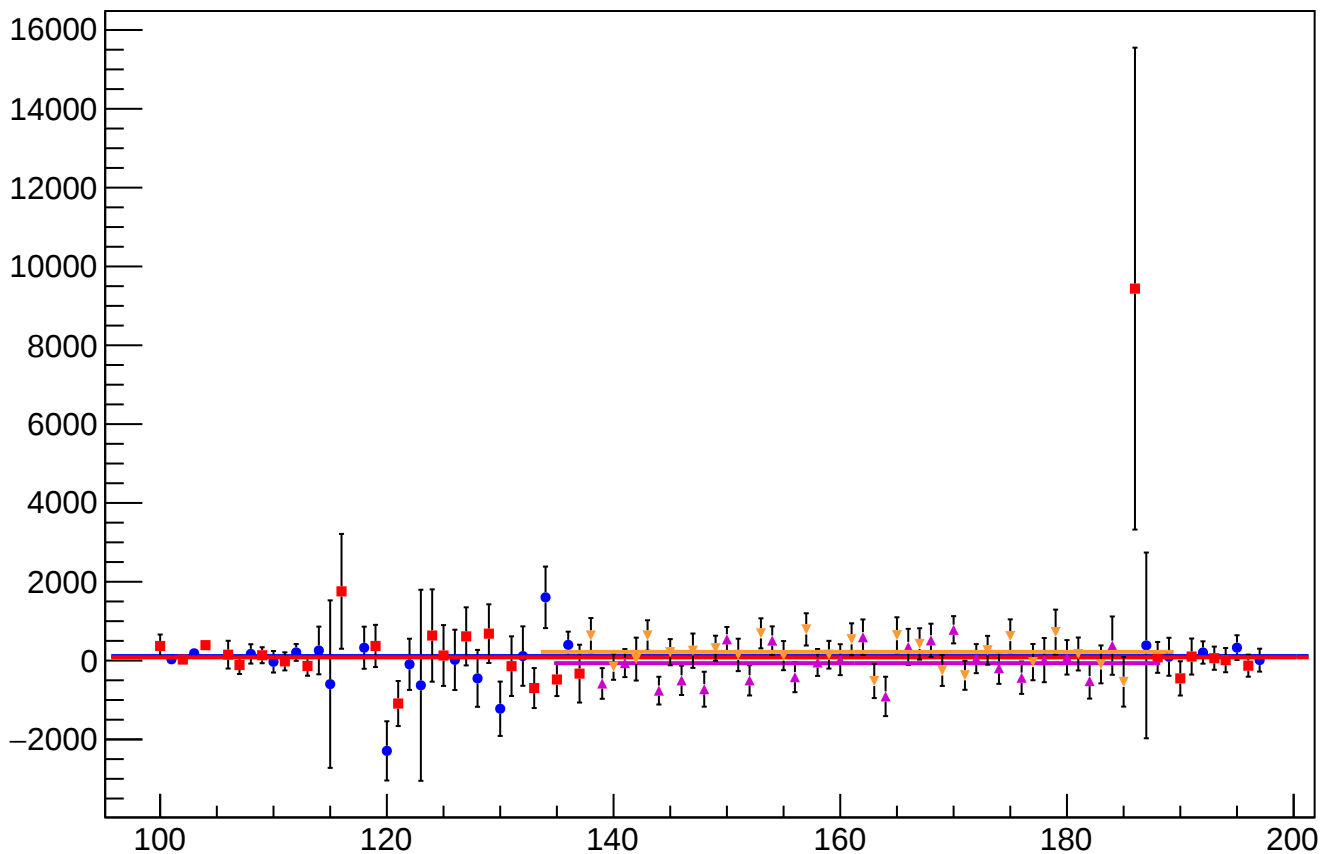
Right: 122.890+/-0.025 χ^2/NDF : 16057583.6/47

In: 172.811+/-0.030 χ^2/NDF : 19642960.5/44

Out: 189.898+/-0.030 χ^2/NDF : 17990719.5/50

All: 181.343+/-0.021 χ^2/NDF : 37799164.1/95

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 113.951 $\pm$ 58.788 χ^2 /NDF: 21.7/21

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

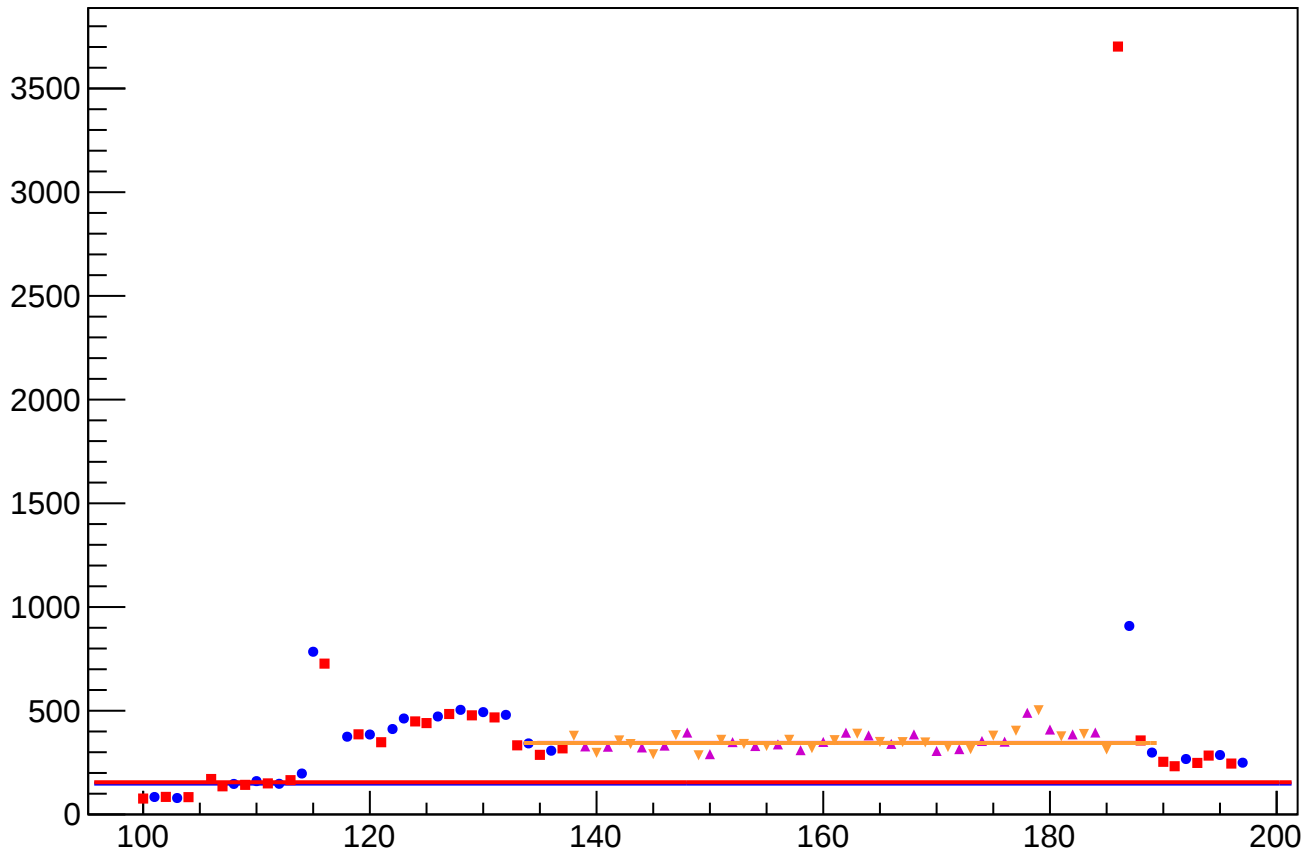
Right: 97.532 $\pm$ 40.465 χ^2 /NDF: 47.7/47

In: 54.303 $\pm$ 48.035 χ^2 /NDF:58.8/44

Out: 127.237 $\pm$ 45.946 χ^2 /NDF:47.5/50

All: 92.391 $\pm$ 33.202 χ^2 /NDF: 107.5/95

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 148.719+/-0.042 χ^2/NDF : 6321898.0/21

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

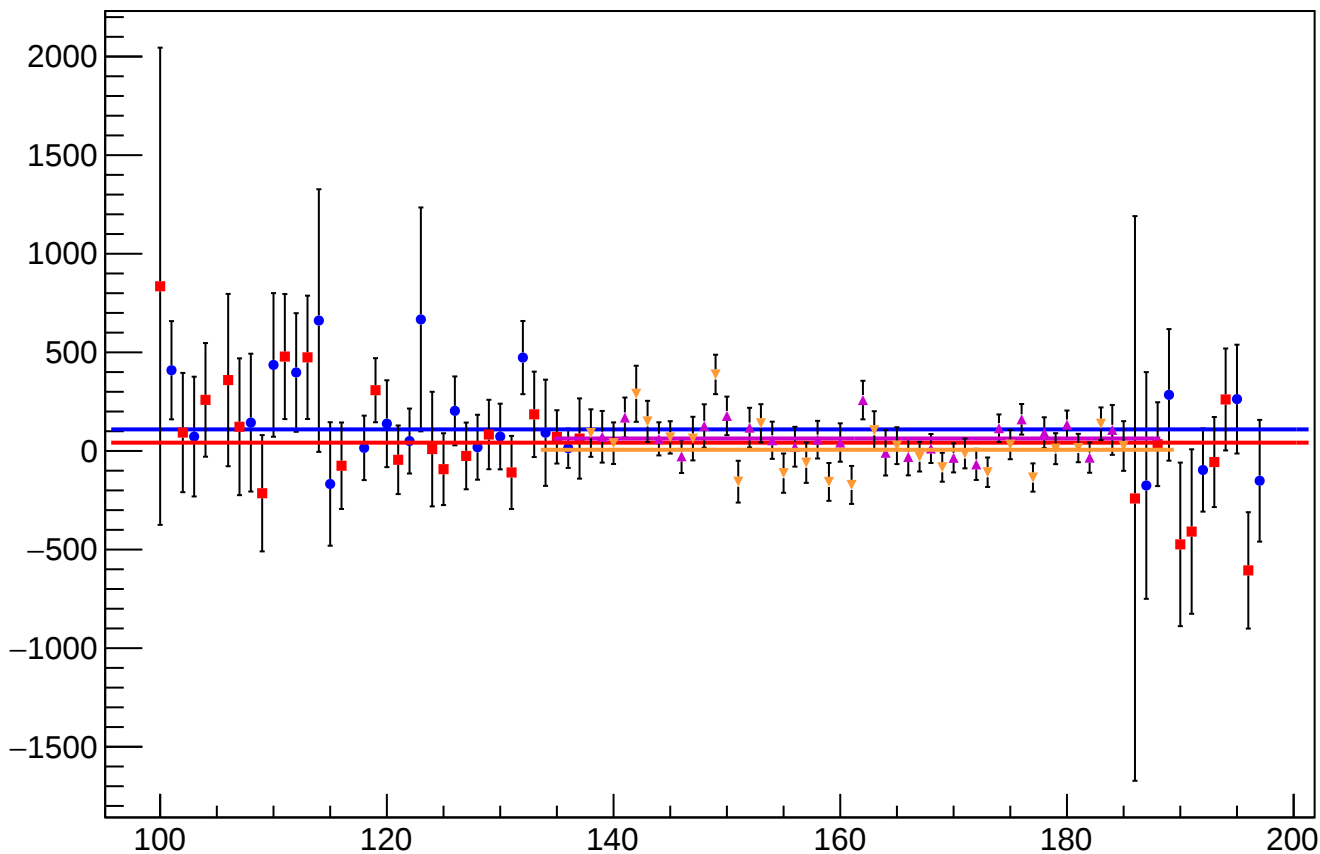
Right: 152.161+/-0.029 χ^2/NDF : 13062423.7/47

In: 213.971+/-0.034 χ^2/NDF : 14162452.8/44

Out: 216.122+/-0.032 χ^2/NDF : 14618643.6/50

All: 215.094+/-0.023 χ^2/NDF : 28783190.8/95

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 109.396 $\pm$ 46.068 χ^2 /NDF: 14.0/21

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

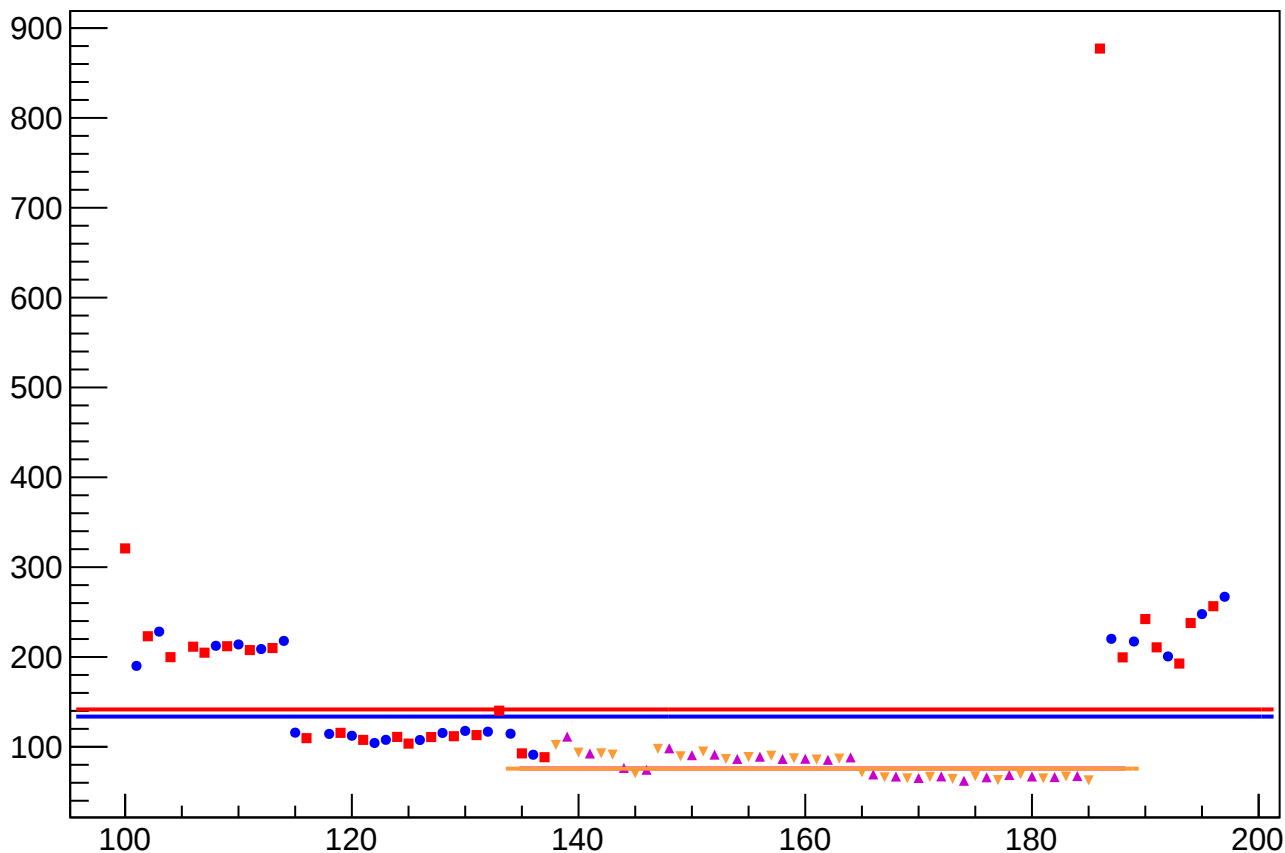
Right: 75.474 $\pm$ 32.441 χ^2 /NDF: 34.9/47

In: 69.651 $\pm$ 17.125 χ^2 /NDF:34.7/44

Out: 10.825 $\pm$ 16.675 χ^2 /NDF:66.3/50

All: 39.455 $\pm$ 11.947 χ^2 /NDF: 107.1/95

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 133.681 $\pm$ 0.033 χ^2 /NDF: 2336529.7/21

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

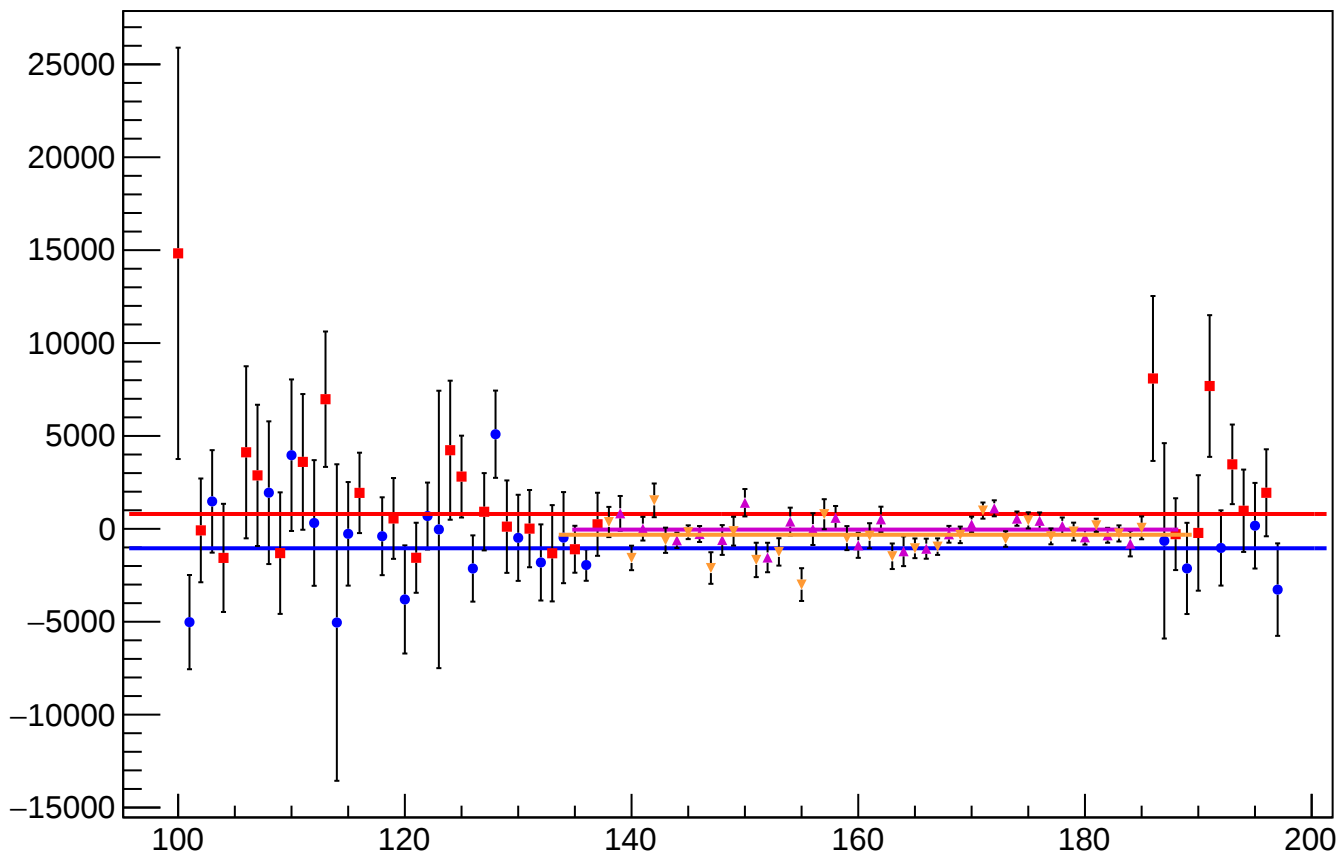
Right: 137.678 $\pm$ 0.023 χ^2 /NDF: 5429091.5/47

In: 83.892 $\pm$ 0.012 χ^2 /NDF:5878551.7/44

Out: 84.515 $\pm$ 0.012 χ^2 /NDF:7603304.6/50

All: 84.212 $\pm$ 0.008 χ^2 /NDF: 13483214.5/95

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1045.677 ± 466.782 $\chi^2/\text{NDF}: 17.7/21$

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 $\chi^2/\text{NDF}: 88.0/47$

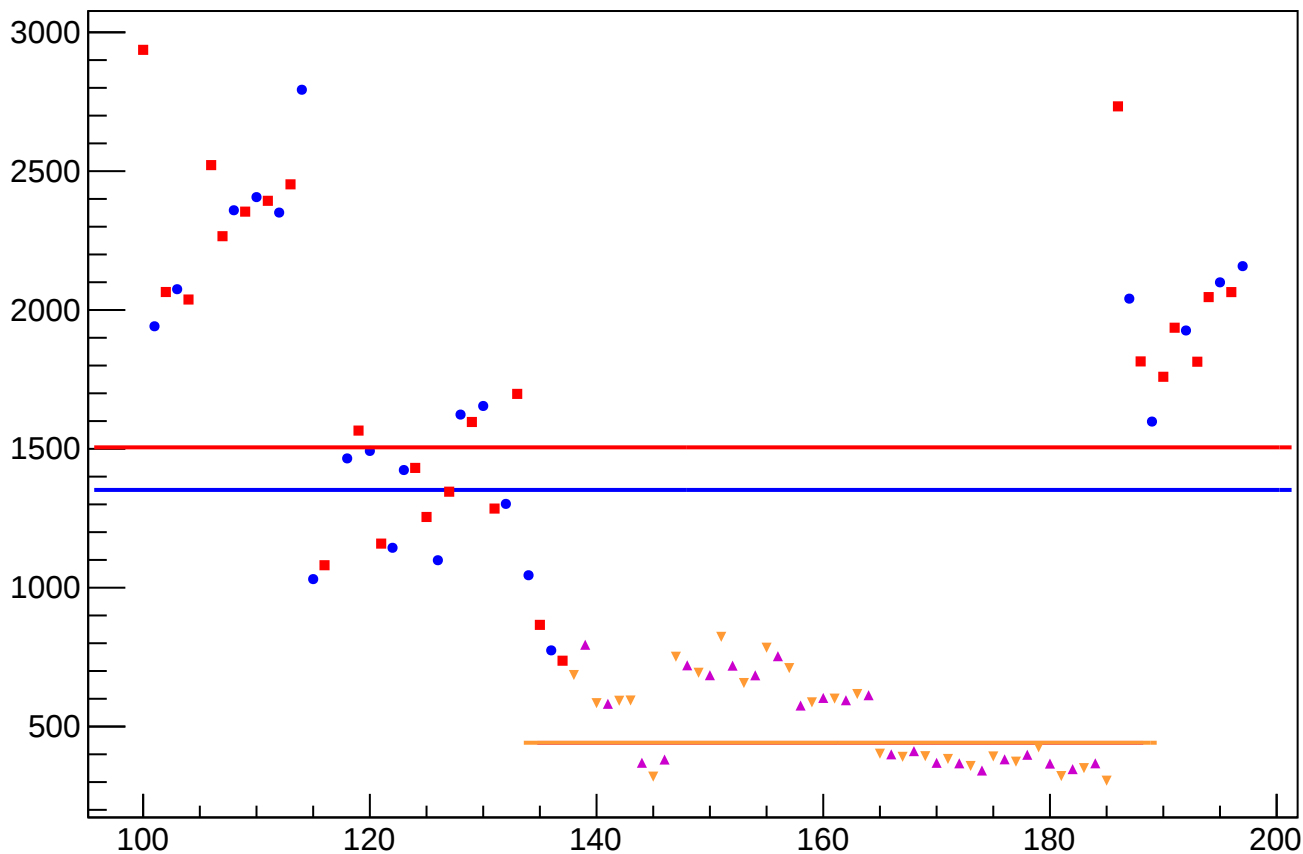
Right: -138.308 ± 332.794 $\chi^2/\text{NDF}: 47.4/47$

In: -93.589 ± 107.300 $\chi^2/\text{NDF}: 56.8/44$

Out: -263.019 ± 105.320 $\chi^2/\text{NDF}: 77.3/50$

All: -179.881 ± 75.163 $\chi^2/\text{NDF}: 135.4/95$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1352.066 $\pm$ 0.330 χ^2 /NDF: 2509628.8/21

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

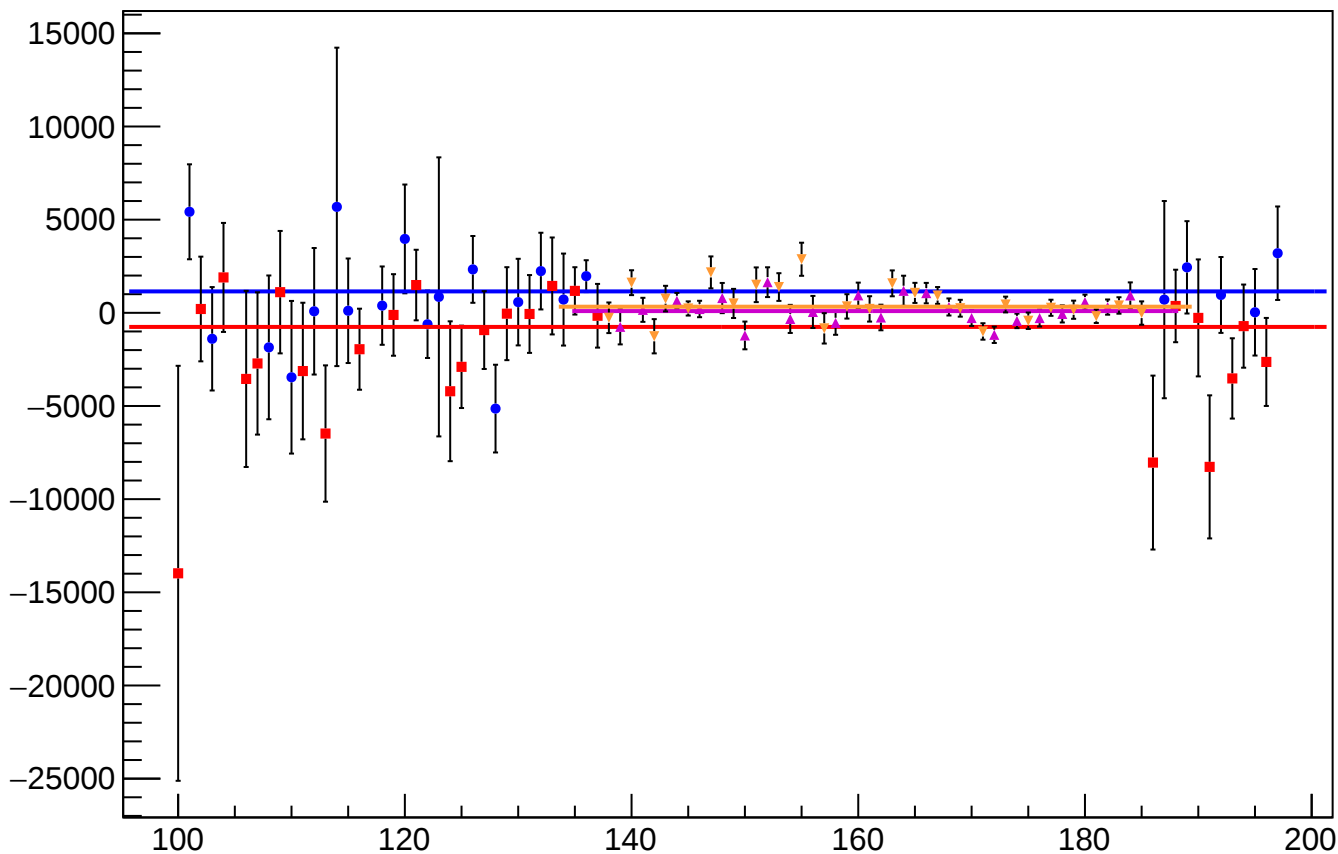
Right: 1427.449 $\pm$ 0.235 χ^2 /NDF: 5021477.4/47

In: 489.150 $\pm$ 0.076 χ^2 /NDF:12322958.8/44

Out: 494.067 $\pm$ 0.074 χ^2 /NDF:15126523.7/50

All: 491.654 $\pm$ 0.053 χ^2 /NDF: 27451621.9/99

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1149.857 $\pm$ 469.585 χ^2 /NDF: 18.1/21

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

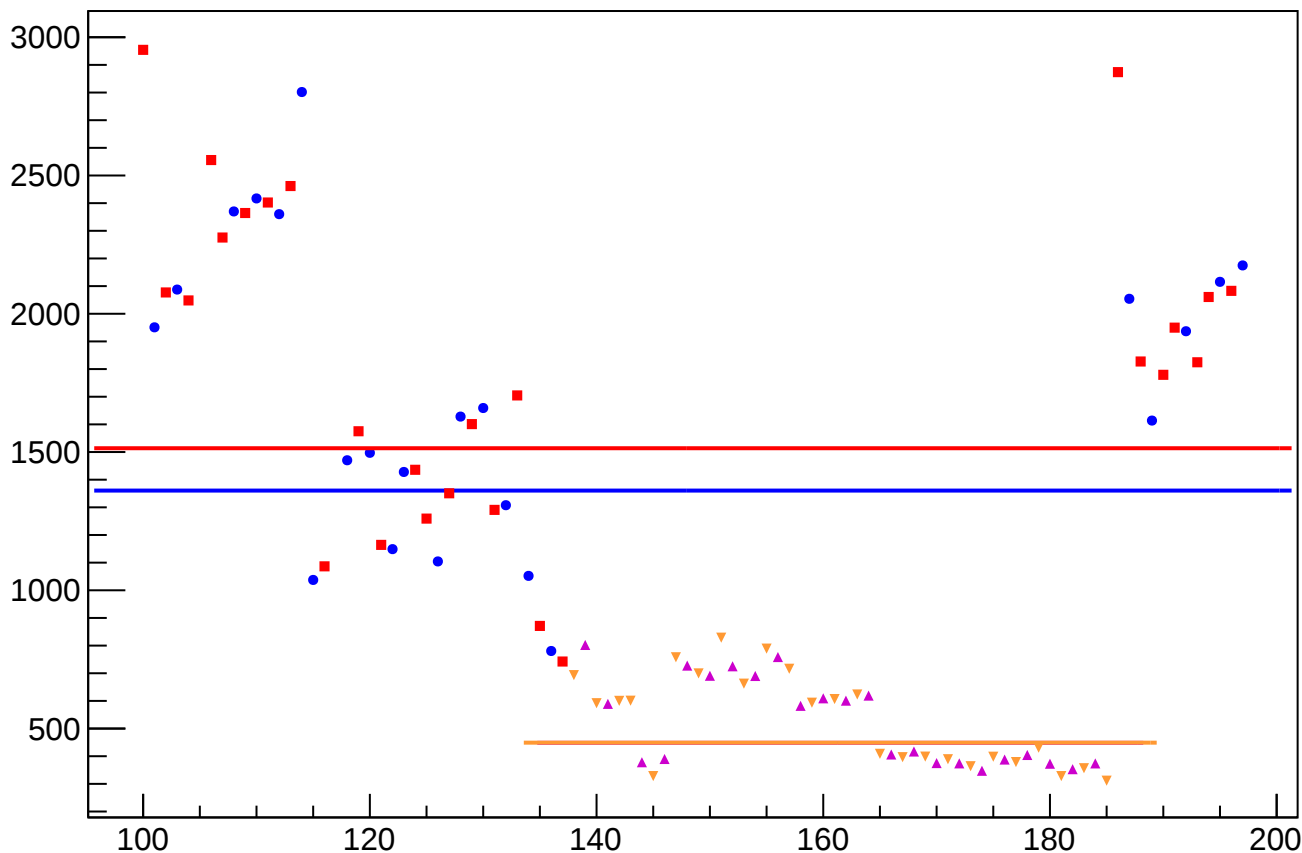
Right: 212.755 $\pm$ 334.823 χ^2 /NDF: 48.2/47

In: 150.140 $\pm$ 108.907 χ^2 /NDF: 56.2/44

Out: 274.244 $\pm$ 106.886 χ^2 /NDF: 74.6/50

All: 213.354 $\pm$ 76.284 χ^2 /NDF: 131.5/95

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1360.614 $\pm$ 0.332 χ^2/NDF : 2499474.8/21

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1513.734 $\pm$ 0.338 χ^2/NDF : 2424381.7/25

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

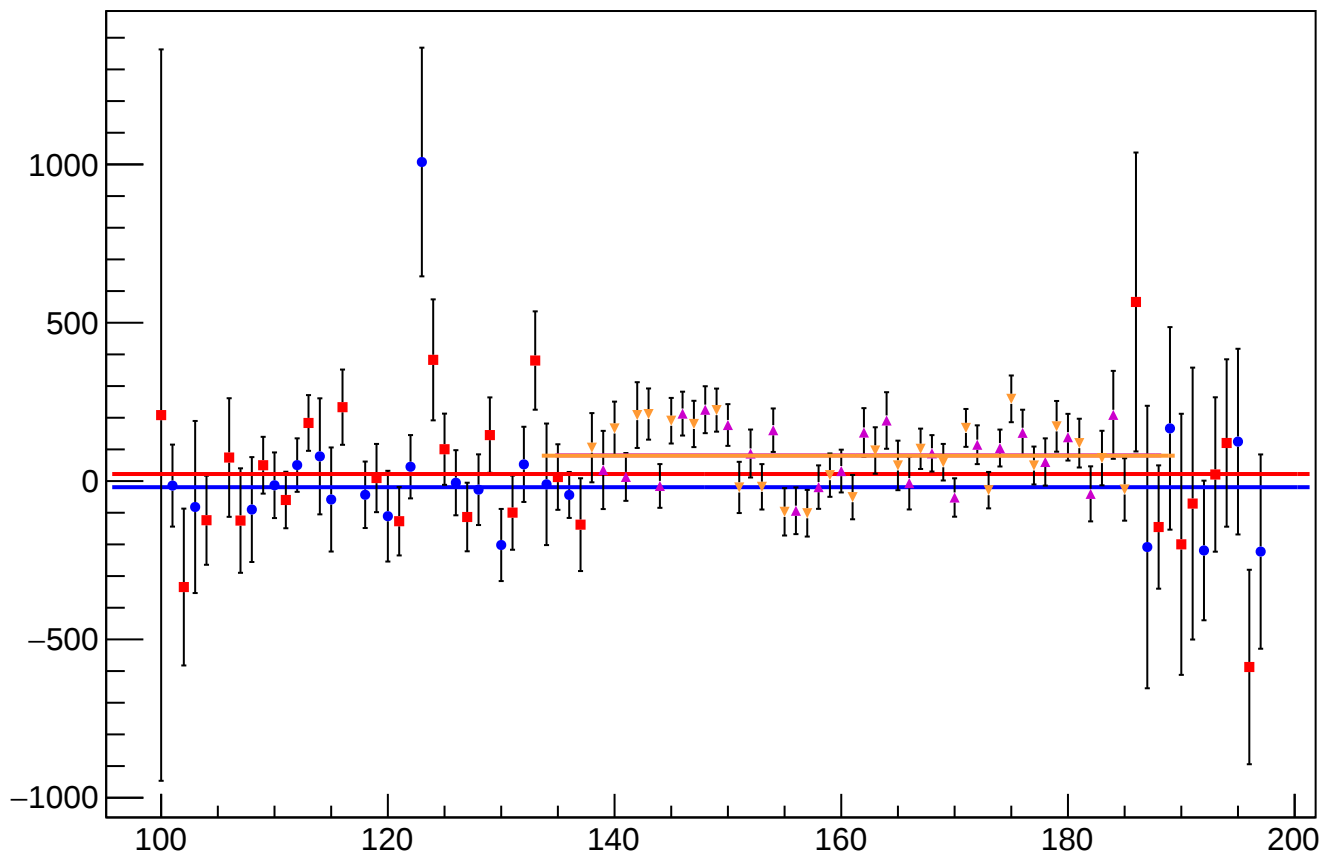
Right: 1435.889 $\pm$ 0.237 χ^2/NDF : 5028396.9/47

In: 497.378 $\pm$ 0.077 χ^2/NDF : 12179710.0/44

Out: 502.357 $\pm$ 0.076 χ^2/NDF : 14959040.3/50

All: 499.914 $\pm$ 0.054 χ^2/NDF : 27140880.1/95

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -19.321 $\pm$ 28.234 χ^2/NDF : 15.3/21

Left Out: 80.171 $\pm$ 14.592 χ^2/NDF : 48.6/24

Right Out: 22.295 $\pm$ 27.167 χ^2/NDF : 34.2/25

Left In: 81.156 $\pm$ 15.105 χ^2/NDF : 35.3/22

Left: 80.646 $\pm$ 10.495 χ^2/NDF : 83.8/47

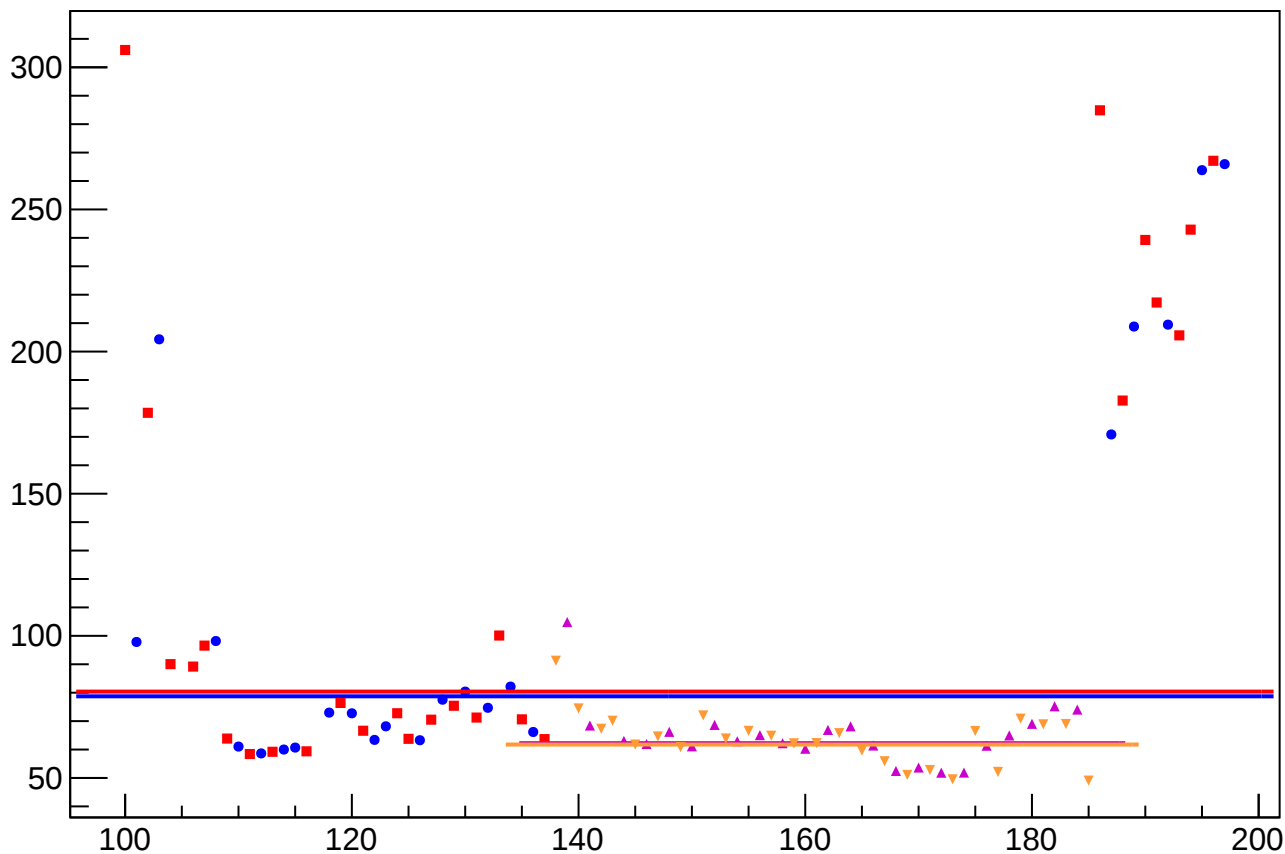
Right: 2.288 $\pm$ 19.577 χ^2/NDF : 50.6/47

In: 58.797 $\pm$ 13.319 χ^2/NDF : 60.5/44

Out: 67.212 $\pm$ 12.855 χ^2/NDF : 86.3/50

All: 63.153 $\pm$ 9.250 χ^2/NDF : 146.9/95

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 78.725 $\pm$ 0.020 χ^2 /NDF: 3542803.4/21

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

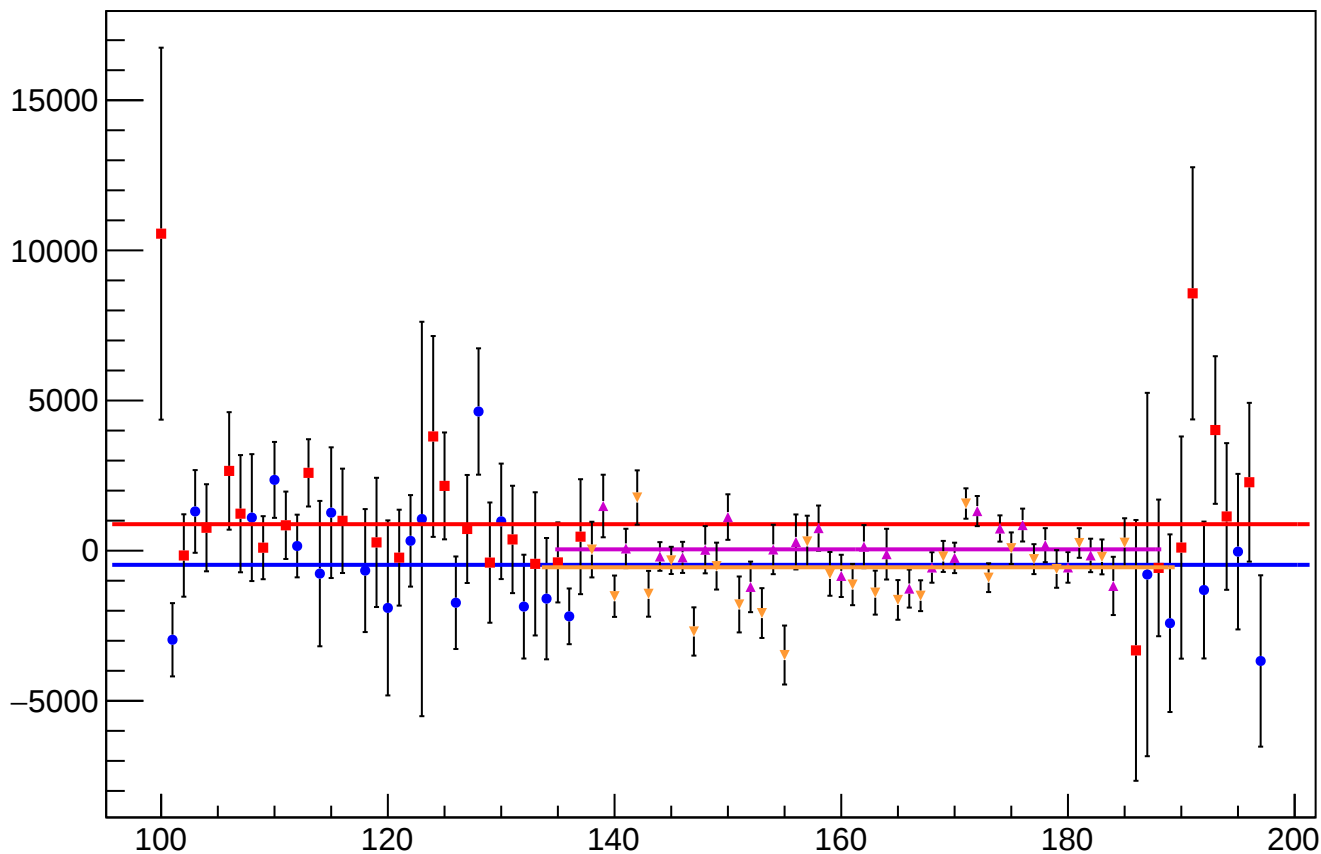
Right: 79.588 $\pm$ 0.014 χ^2 /NDF: 7980105.7/47

In: 65.916 $\pm$ 0.009 χ^2 /NDF: 4663336.0/44

Out: 65.931 $\pm$ 0.009 χ^2 /NDF: 5808815.9/50

All: 65.924 $\pm$ 0.007 χ^2 /NDF: 10472153.2/95

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -471.375+/-367.011 χ^2/NDF : 26.4/21

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 882.201+/-350.601 χ^2/NDF : 17.0/25

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

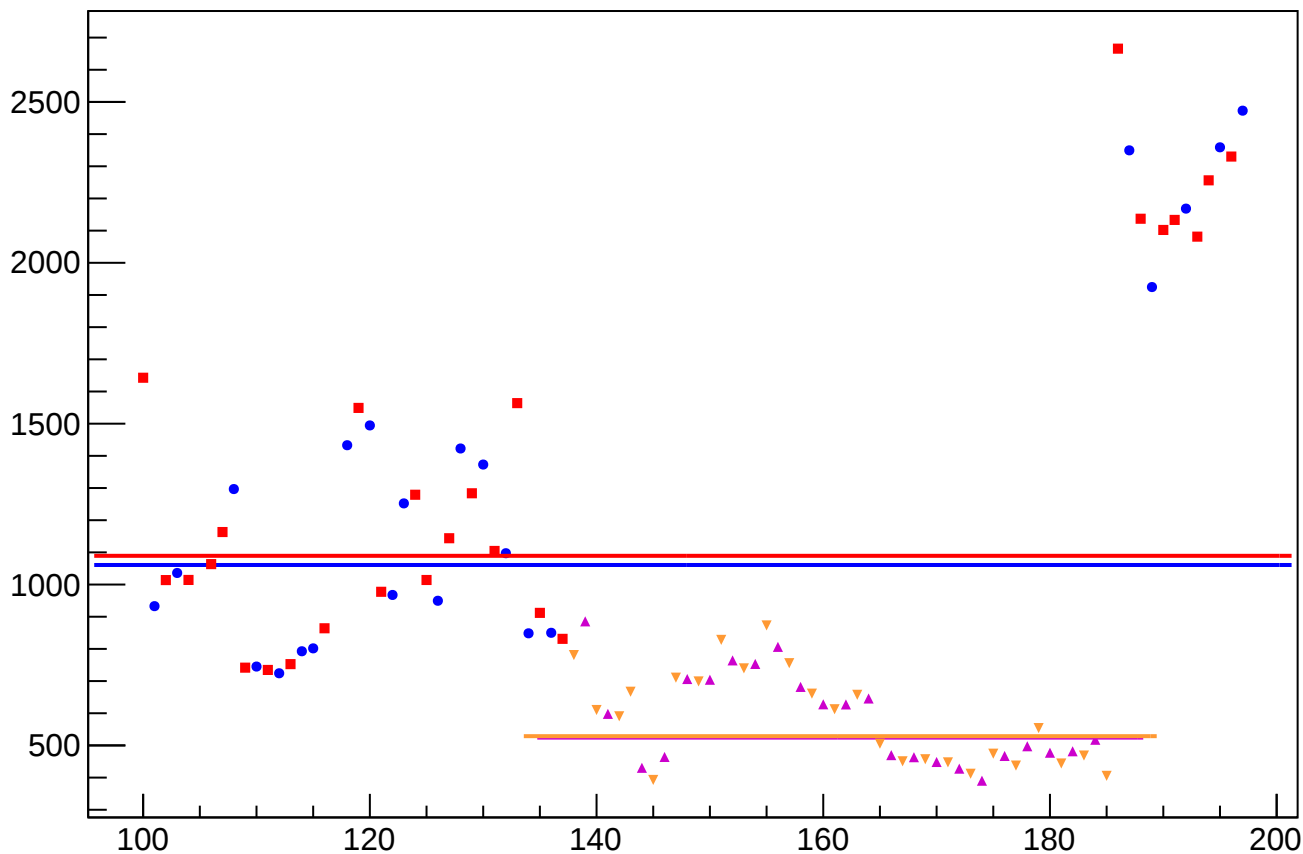
Right: 236.349+/-253.515 χ^2/NDF : 50.5/47

In: -12.230+/-121.781 χ^2/NDF : 57.7/44

Out: -386.137+/-119.392 χ^2/NDF : 97.1/50

All: -202.887+/-85.255 χ^2/NDF : 159.6/95

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1060.808 $\pm$ 0.260 χ^2 /NDF: 2527530.5/21

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF: 1983697.7/24

Right Out: 1089.311 $\pm$ 0.248 χ^2 /NDF: 3131260.8/25

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF: 1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

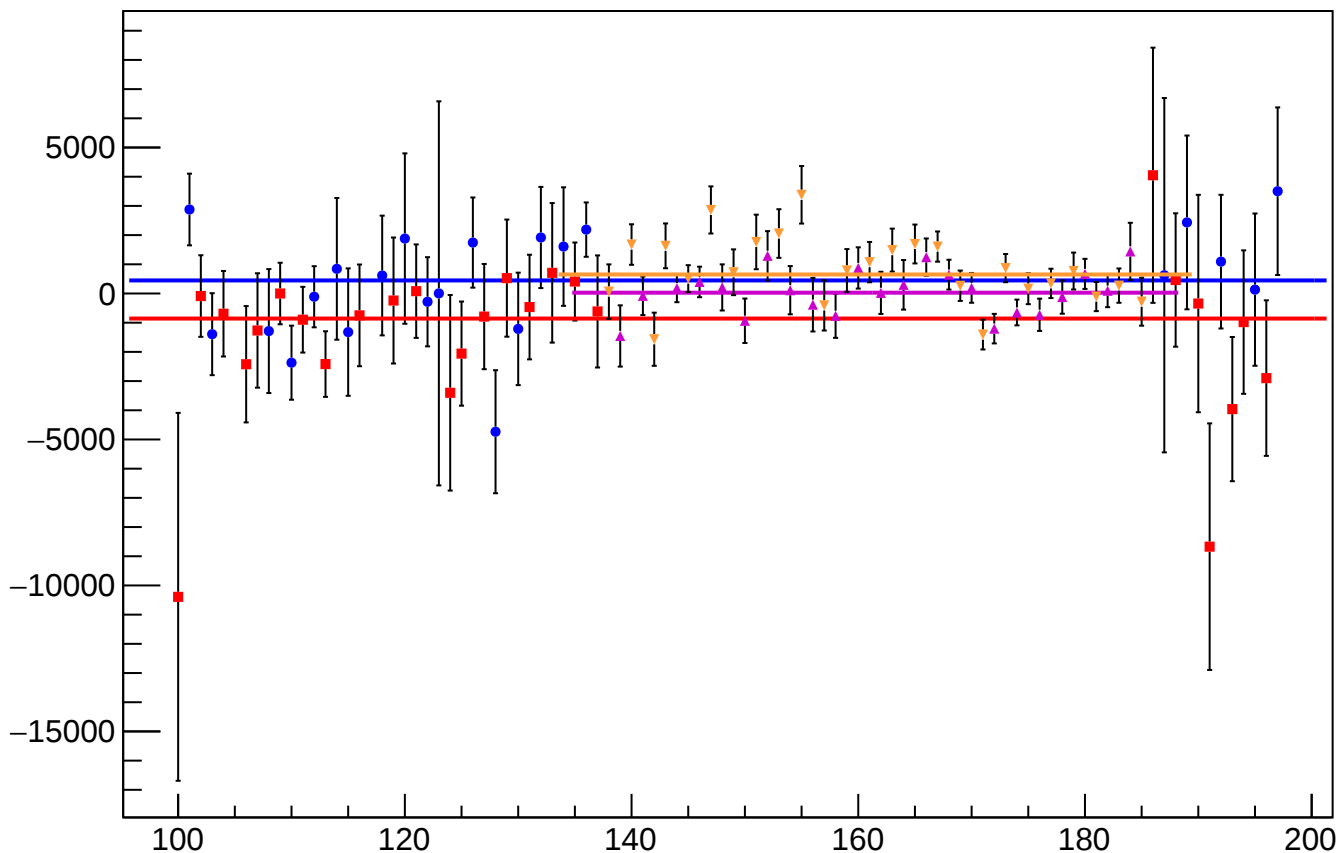
Right: 1075.711 $\pm$ 0.179 χ^2 /NDF: 5665098.6/47

In: 583.343 $\pm$ 0.086 χ^2 /NDF: 8047576.0/44

Out: 593.742 $\pm$ 0.084 χ^2 /NDF: 9634990.5/50

All: 588.645 $\pm$ 0.060 χ^2 /NDF: 17690003.1/95

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 447.306 $\pm$ 368.712 χ^2 /NDF: 26.4/21

Left Out: 651.560 $\pm$ 127.961 χ^2 /NDF:61.1/24

Right Out: -858.436 $\pm$ 352.399 χ^2 /NDF: 16.4/25

Left In: 27.483 $\pm$ 130.127 χ^2 /NDF:28.5/22

Left: 344.758 $\pm$ 91.238 χ^2 /NDF: 101.2/47

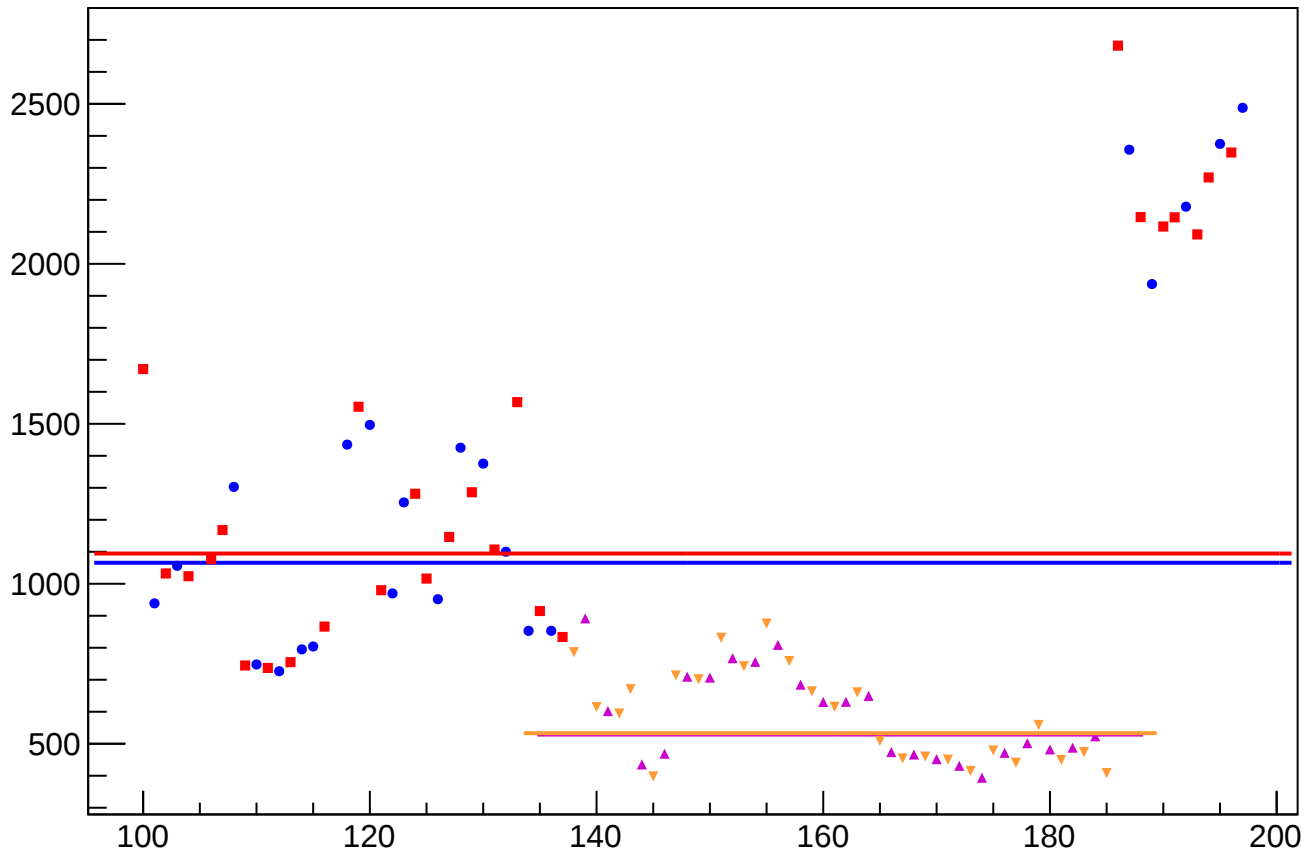
Right: -235.088 $\pm$ 254.756 χ^2 /NDF: 49.3/47

In: 73.982 $\pm$ 122.709 χ^2 /NDF:56.0/44

Out: 475.657 $\pm$ 120.277 χ^2 /NDF:93.7/50

All: 278.839 $\pm$ 85.896 χ^2 /NDF: 155.2/95

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1065.622+/-0.261 χ^2/NDF : 2531128.2/21

Left Out: 533.060+/-0.090 χ^2/NDF :1951536.4/24

Right Out: 1094.485+/-0.249 χ^2/NDF : 3138766.3/25

Left In: 528.694+/-0.092 χ^2/NDF :1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

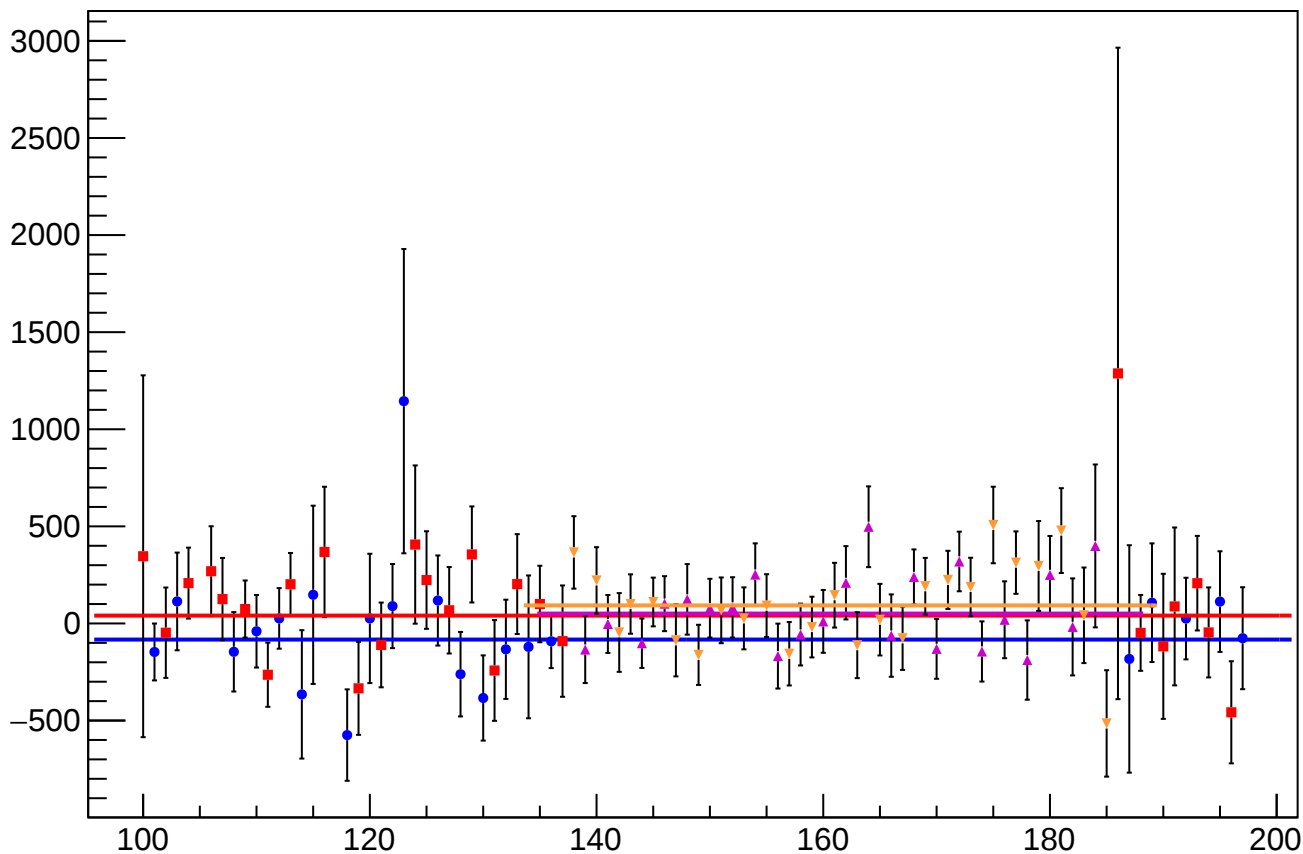
Right: 1080.706+/-0.180 χ^2/NDF : 5676299.5/47

In: 588.164+/-0.087 χ^2/NDF :7991079.6/44

Out: 598.462+/-0.085 χ^2/NDF :9575218.2/50

All: 593.416+/-0.061 χ^2/NDF : 17573482.0/95

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -82.933 ± 48.716 χ^2/NDF : 14.6/21

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

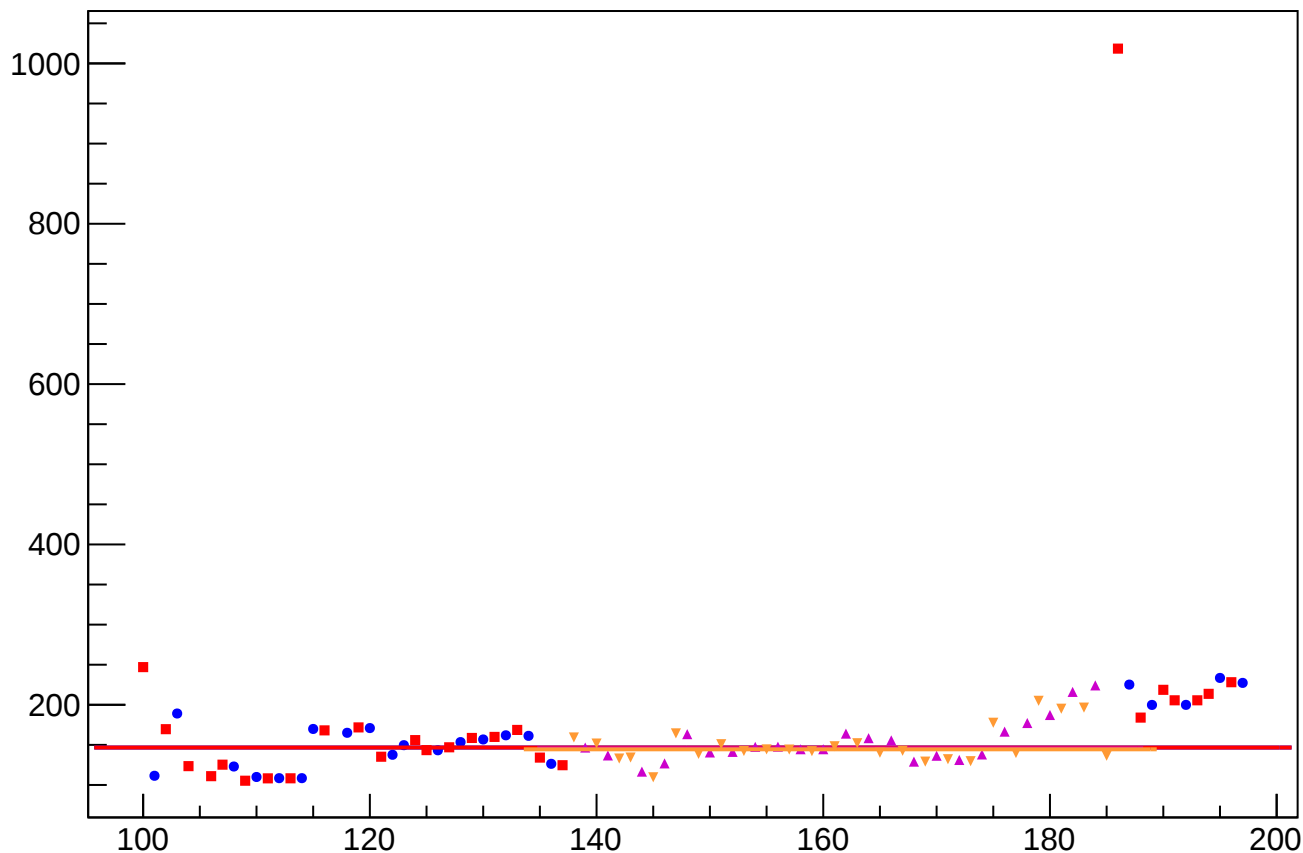
Right: -17.535 ± 33.394 χ^2/NDF : 38.6/47

In: 4.854 ± 28.574 χ^2/NDF : 43.0/44

Out: 74.316 ± 27.341 χ^2/NDF : 50.8/50

All: 41.115 ± 19.755 χ^2/NDF : 96.9/95

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 146.680 $\pm$ 0.034 χ^2 /NDF: 1152760.5/21

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

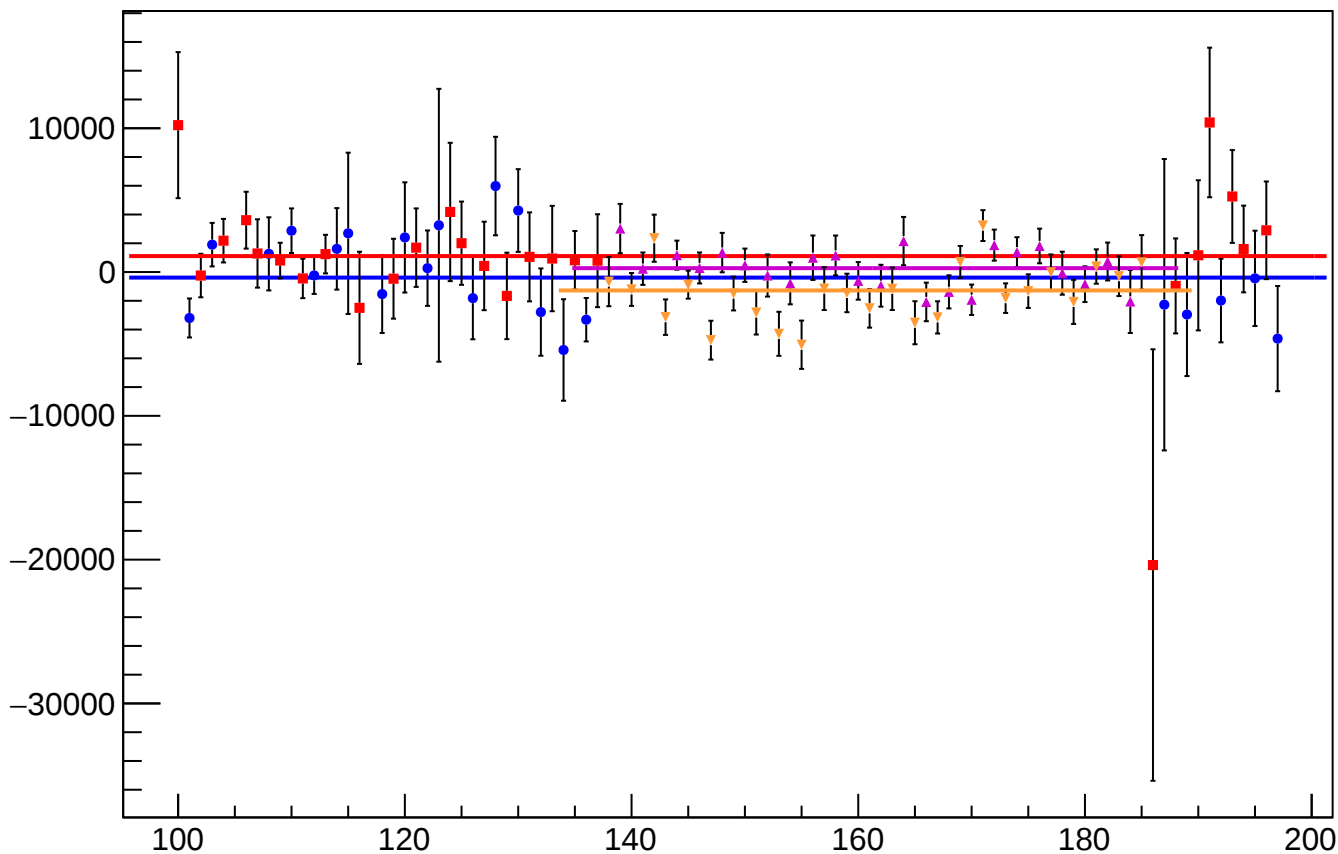
Right: 146.693 $\pm$ 0.024 χ^2 /NDF: 2963128.7/47

In: 145.929 $\pm$ 0.020 χ^2 /NDF: 1797015.0/44

Out: 145.268 $\pm$ 0.019 χ^2 /NDF: 2483904.0/50

All: 145.584 $\pm$ 0.014 χ^2 /NDF: 4281477.8/95

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -386.072+/-501.371 χ^2/NDF : 27.9/21

Left Out: -1279.328+/-259.299 χ^2/NDF : 55.9/24

Right Out: 1108.620+/-457.656 χ^2/NDF : 17.7/25

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

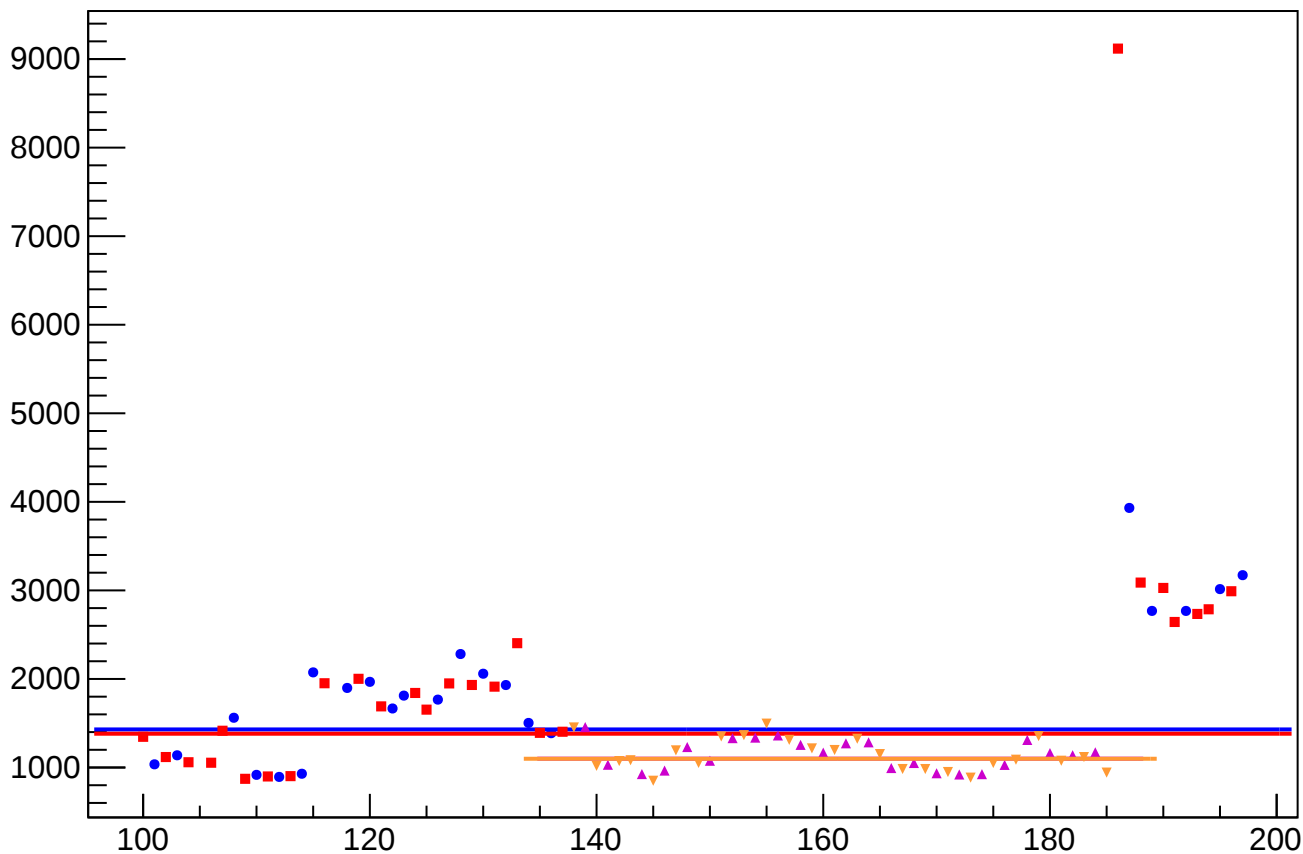
Right: 429.265+/-338.012 χ^2/NDF : 50.5/47

In: 125.648+/-235.146 χ^2/NDF : 53.6/44

Out: -699.043+/-225.604 χ^2/NDF : 94.3/50

All: -303.769+/-162.795 χ^2/NDF : 154.2/95

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1430.001 $\pm$ 0.355 χ^2/NDF : 2979244.2/21

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

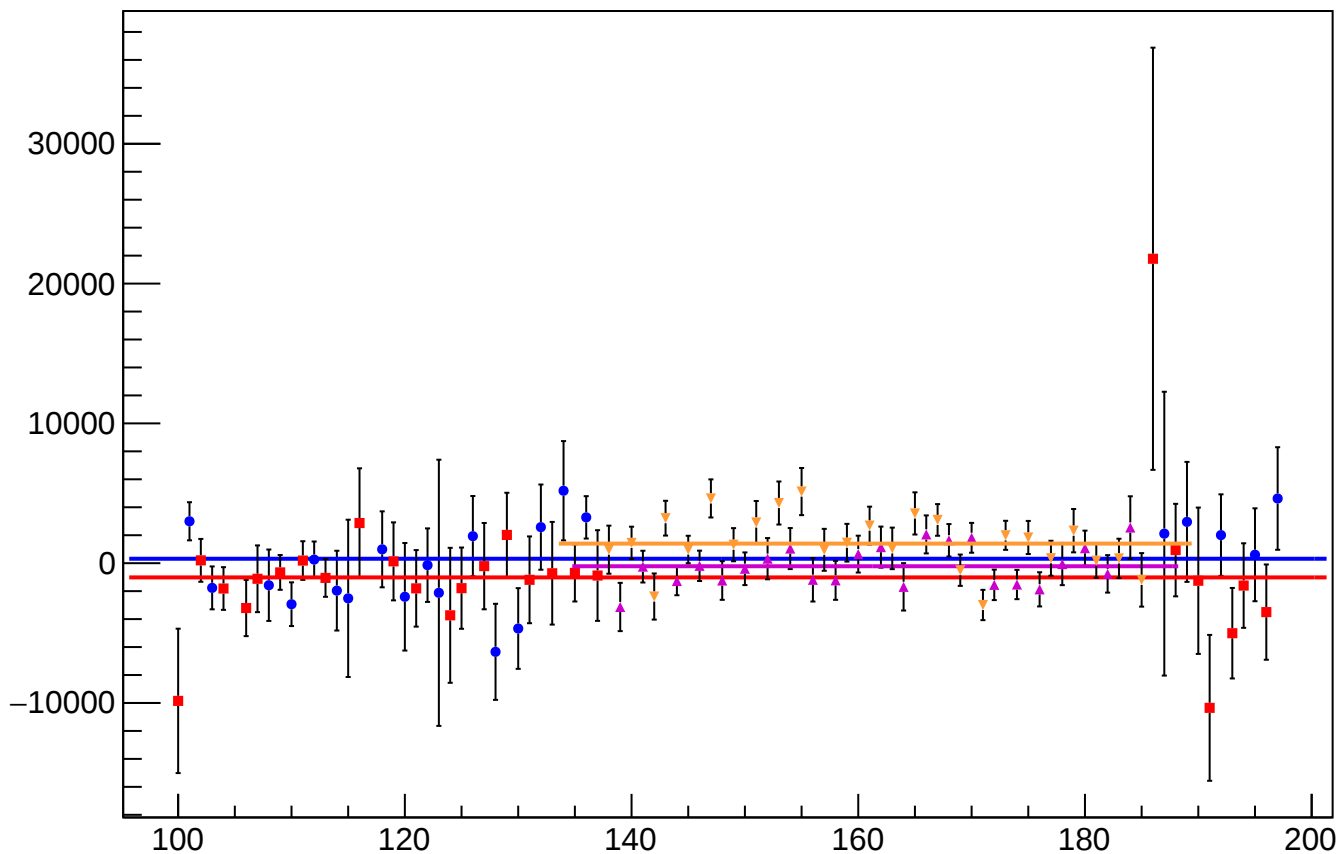
Right: 1403.587 $\pm$ 0.239 χ^2/NDF : 7209281.1/47

In: 1172.266 $\pm$ 0.166 χ^2/NDF : 4336700.0/44

Out: 1167.599 $\pm$ 0.160 χ^2/NDF : 5621755.1/50

All: 1169.836 $\pm$ 0.115 χ^2/NDF : 9958865.3/95

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 317.206+/-504.472 χ^2/NDF : 27.6/21

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

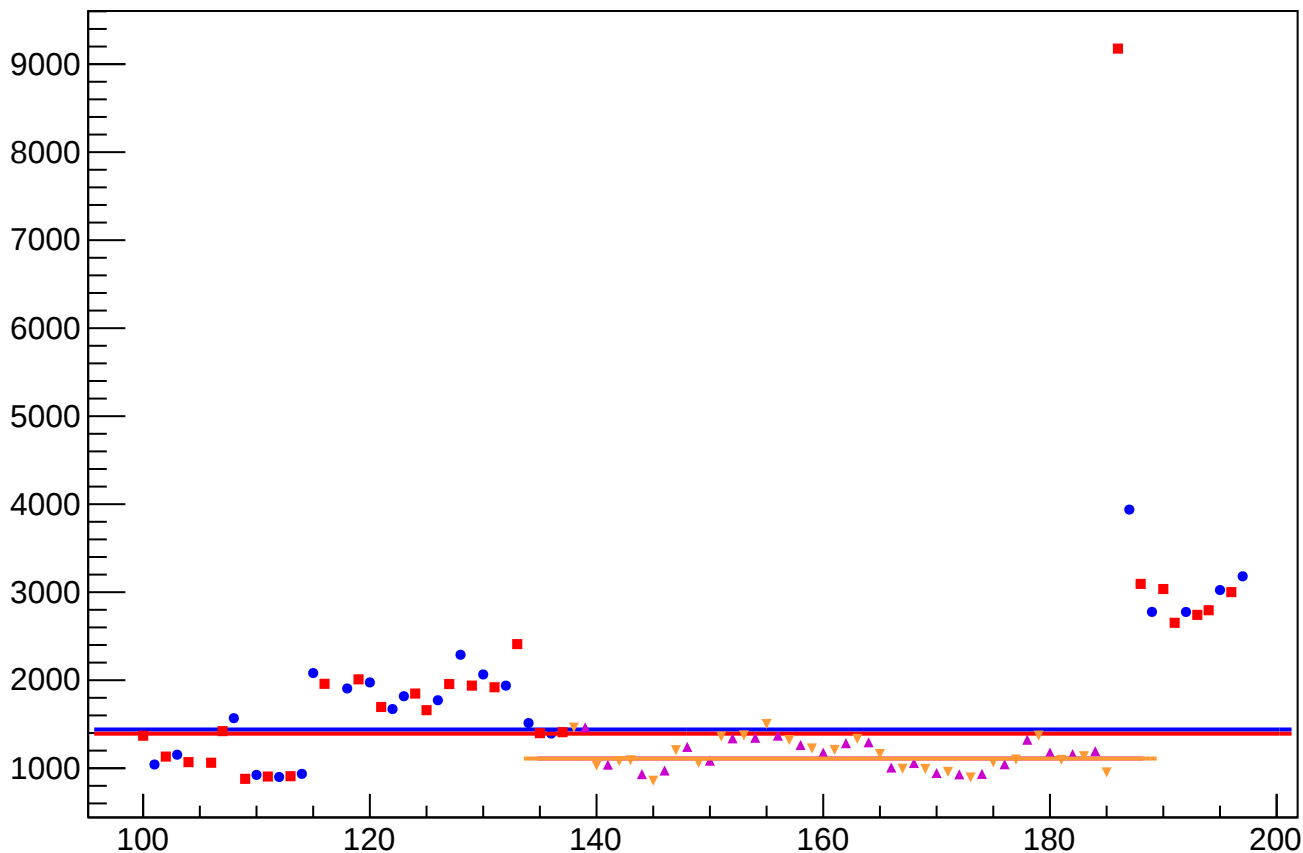
Right: -410.050+/-340.289 χ^2/NDF : 47.9/47

In: -100.698+/-237.261 χ^2/NDF : 53.5/44

Out: 810.769+/-227.648 χ^2/NDF : 89.6/50

All: 373.874+/-164.265 χ^2/NDF : 150.7/95

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1440.028+/-0.357 χ^2/NDF : 2953646.3/21

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

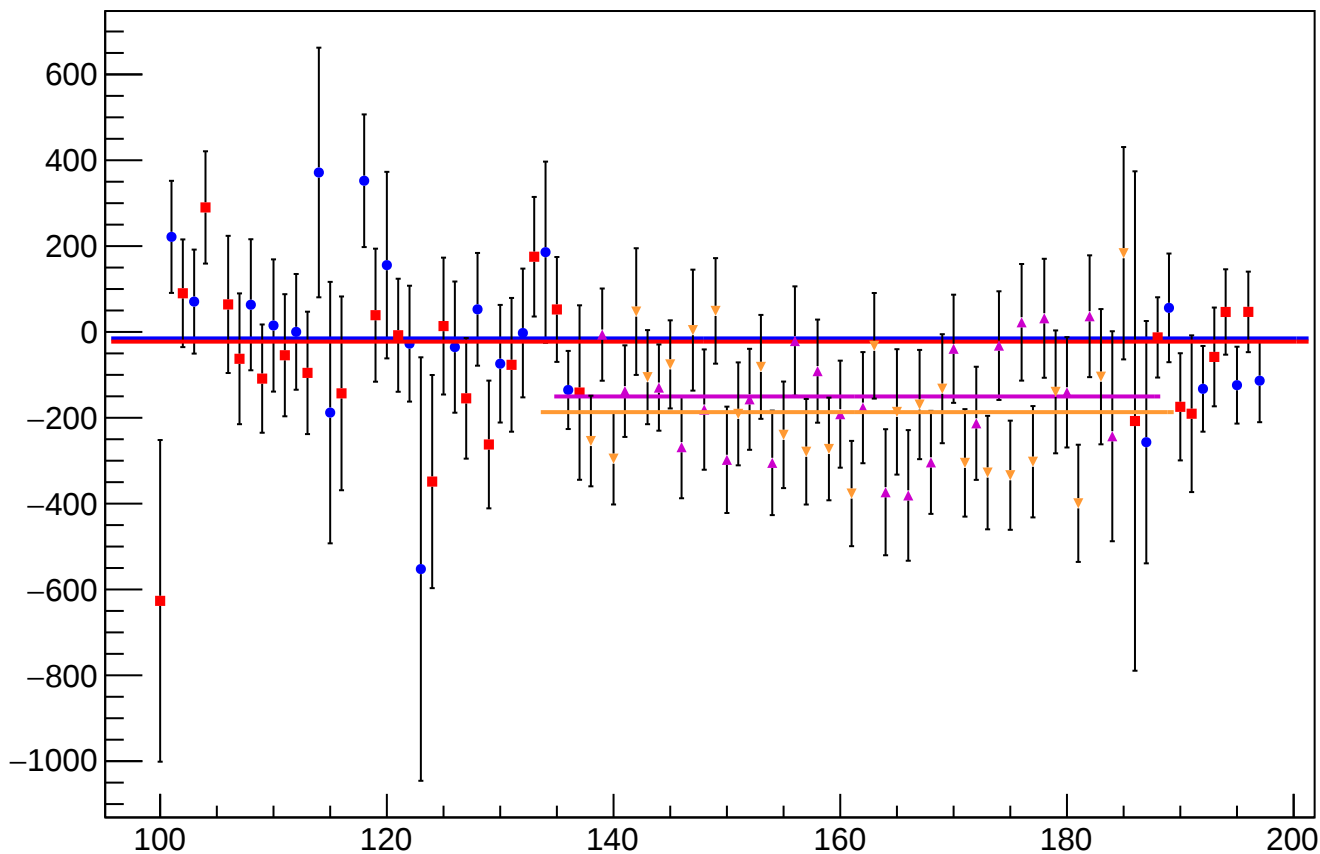
Right: 1414.102+/-0.241 χ^2/NDF : 7149303.7/47

In: 1183.423+/-0.168 χ^2/NDF : 4288020.1/44

Out: 1178.712+/-0.161 χ^2/NDF : 5566904.1/50

All: 1180.970+/-0.116 χ^2/NDF : 9855334.8/95

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -15.071 ± 29.358 χ^2/NDF : 21.7/21

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

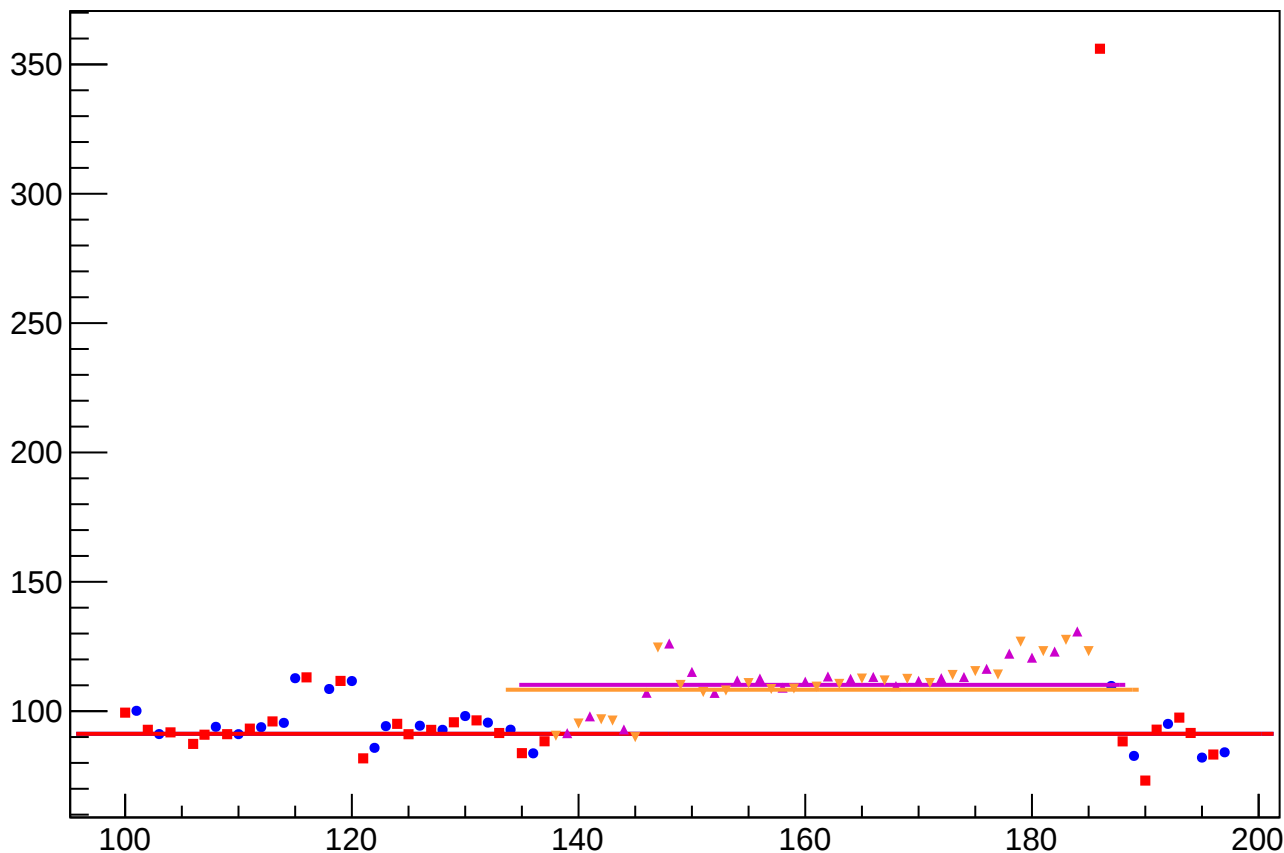
Right: -19.077 ± 20.045 χ^2/NDF : 44.1/47

In: -89.734 ± 19.649 χ^2/NDF : 54.1/44

Out: -111.318 ± 18.602 χ^2/NDF : 68.3/50

All: -101.116 ± 13.508 χ^2/NDF : 123.1/95

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 91.245+/-0.021 χ^2/NDF : 141360.1/21

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 91.251+/-0.019 χ^2/NDF : 560536.8/25

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

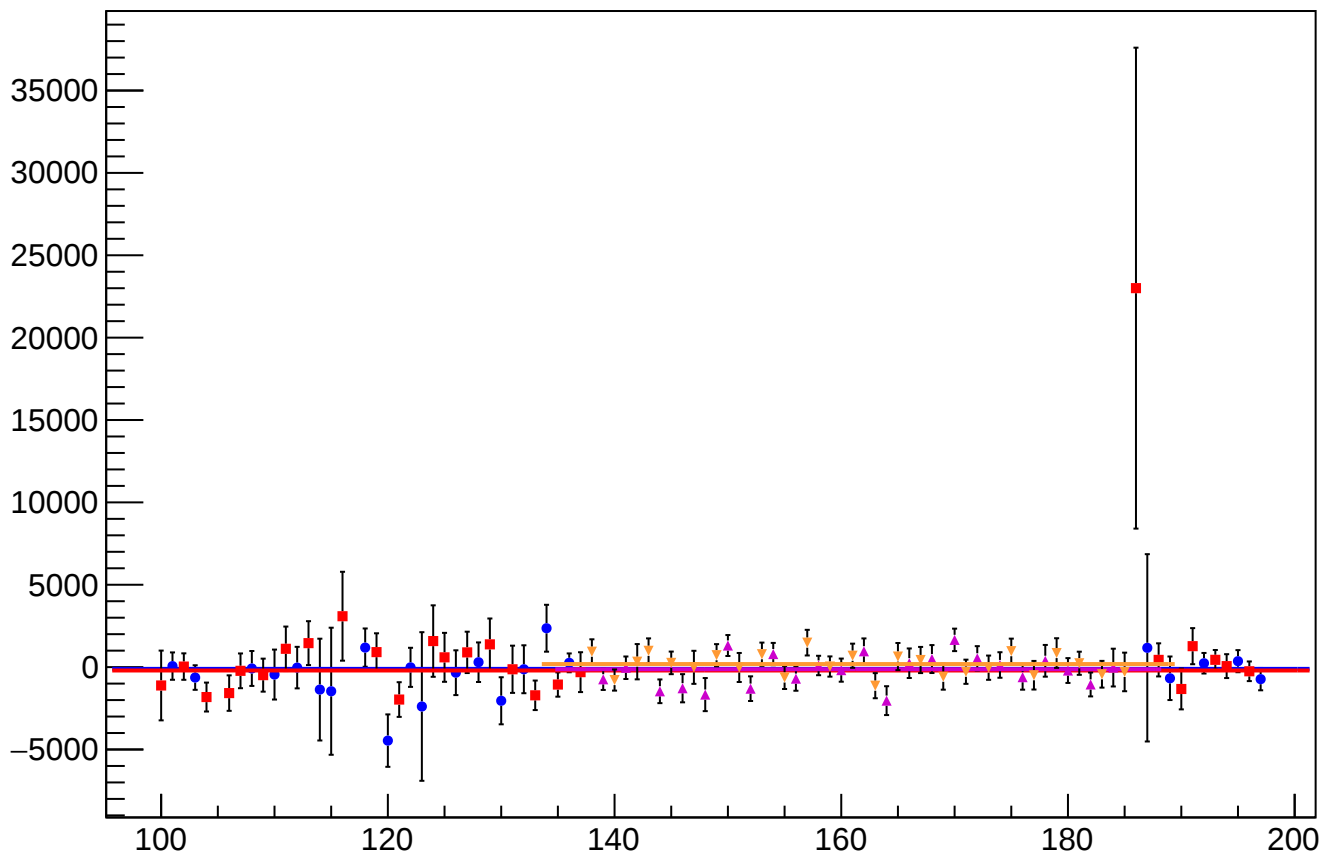
Right: 91.249+/-0.014 χ^2/NDF : 701897.0/47

In: 101.695+/-0.014 χ^2/NDF : 847279.4/44

Out: 100.455+/-0.013 χ^2/NDF : 1307880.3/50

All: 101.041+/-0.010 χ^2/NDF : 2159356.9/95

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -106.826 ± 220.346 $\chi^2/\text{NDF}: 17.1/21$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -204.195 ± 201.055 $\chi^2/\text{NDF}: 26.9/25$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

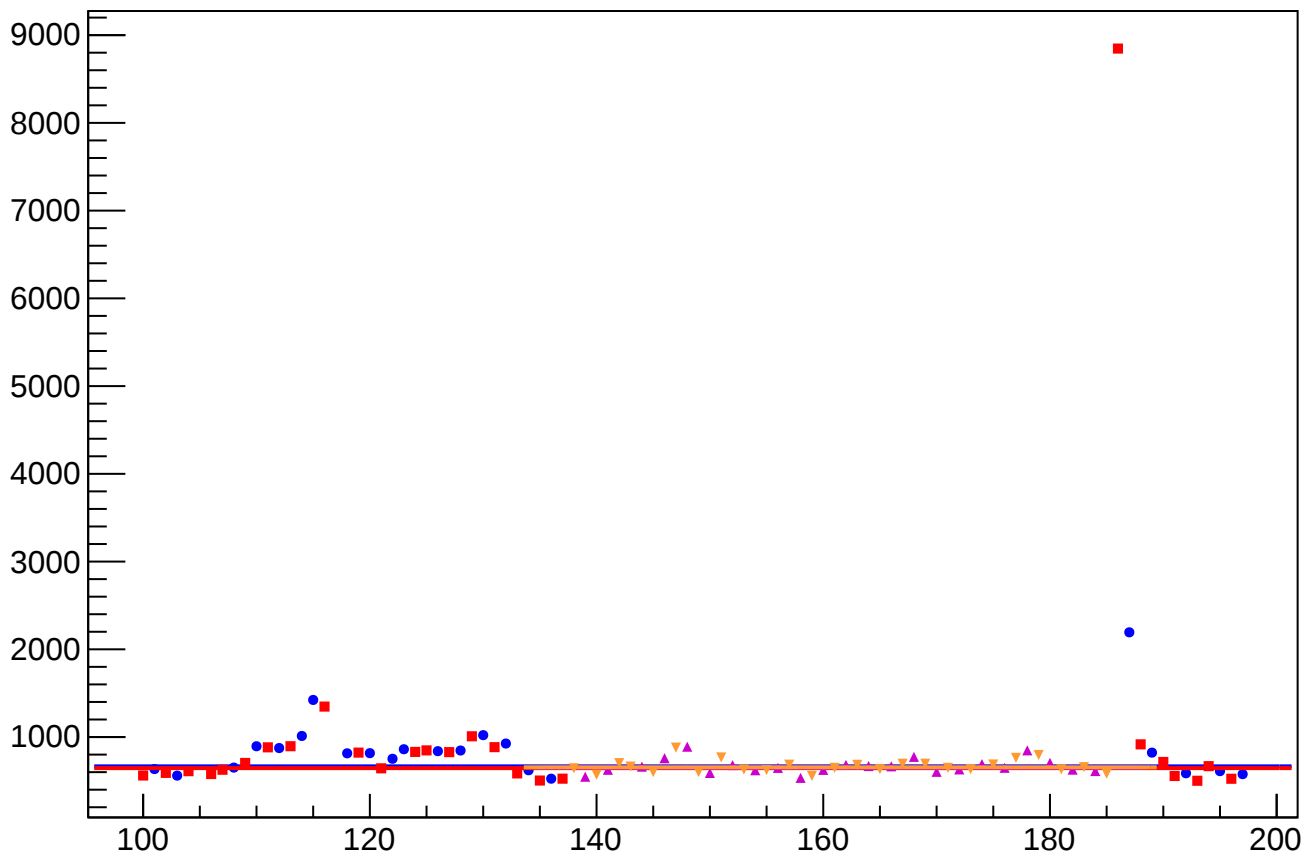
Right: -159.958 ± 148.520 $\chi^2/\text{NDF}: 44.2/47$

In: -121.379 ± 127.947 $\chi^2/\text{NDF}: 53.4/44$

Out: 41.713 ± 122.098 $\chi^2/\text{NDF}: 47.7/50$

All: -36.020 ± 88.332 $\chi^2/\text{NDF}: 101.9/95$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 665.812 $\pm$ 0.156 χ^2 /NDF: 951062.9/21

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 645.918 $\pm$ 0.142 χ^2 /NDF: 1702958.6/25

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

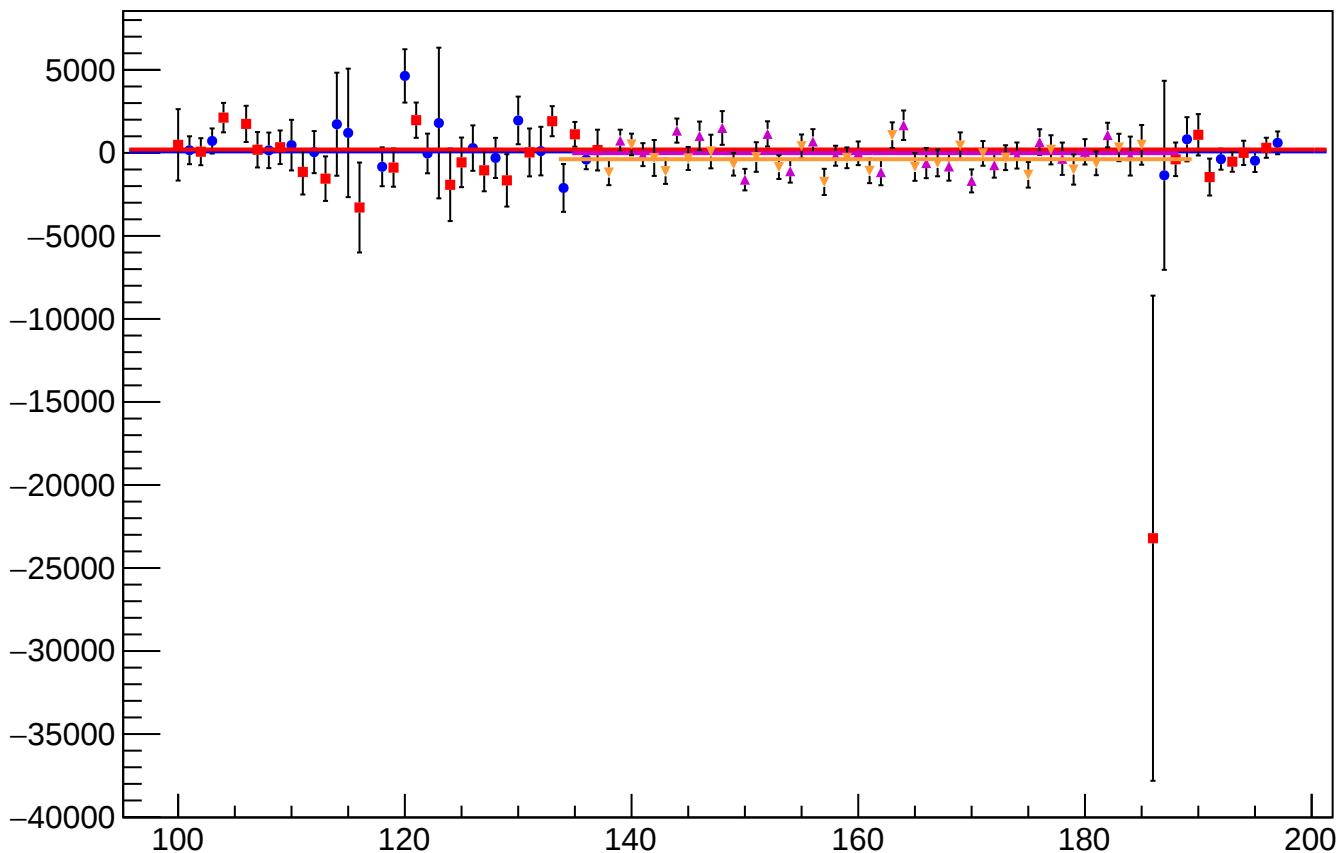
Right: 654.957 $\pm$ 0.105 χ^2 /NDF: 2662917.7/47

In: 655.917 $\pm$ 0.090 χ^2 /NDF: 1423265.2/44

Out: 651.749 $\pm$ 0.086 χ^2 /NDF: 2072972.9/50

All: 653.735 $\pm$ 0.062 χ^2 /NDF: 3497349.0/95

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 90.427 ± 222.649 $\chi^2/\text{NDF}: 17.0/21$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 204.169 ± 203.361 $\chi^2/\text{NDF}: 30.7/25$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

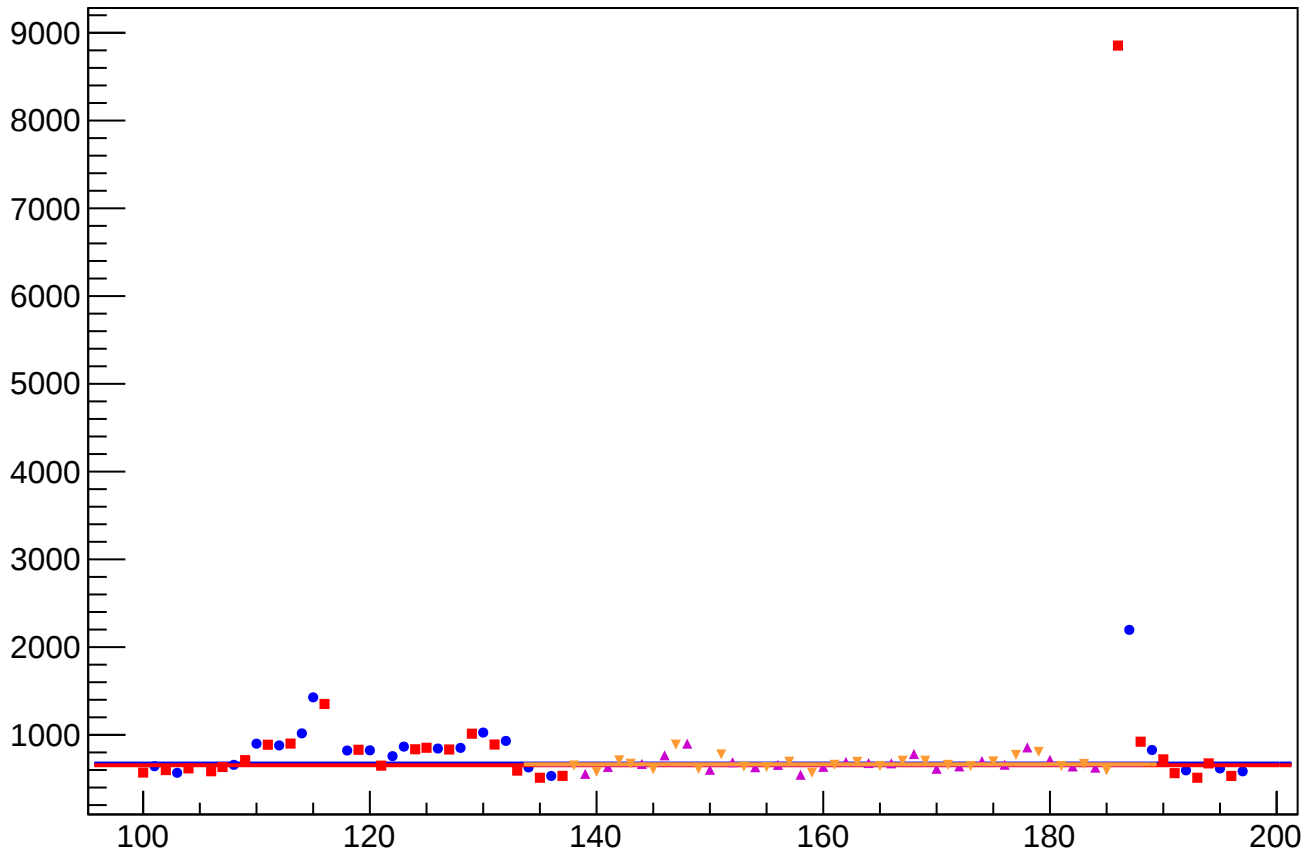
Right: 152.437 ± 150.155 $\chi^2/\text{NDF}: 47.8/47$

In: 20.912 ± 129.669 $\chi^2/\text{NDF}: 54.3/44$

Out: -163.445 ± 123.722 $\chi^2/\text{NDF}: 54.7/50$

All: -75.591 ± 89.514 $\chi^2/\text{NDF}: 110.0/95$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 673.302 $\pm$ 0.157 χ^2 /NDF: 929476.1/21

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 654.011 $\pm$ 0.144 χ^2 /NDF: 1669802.6/25

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

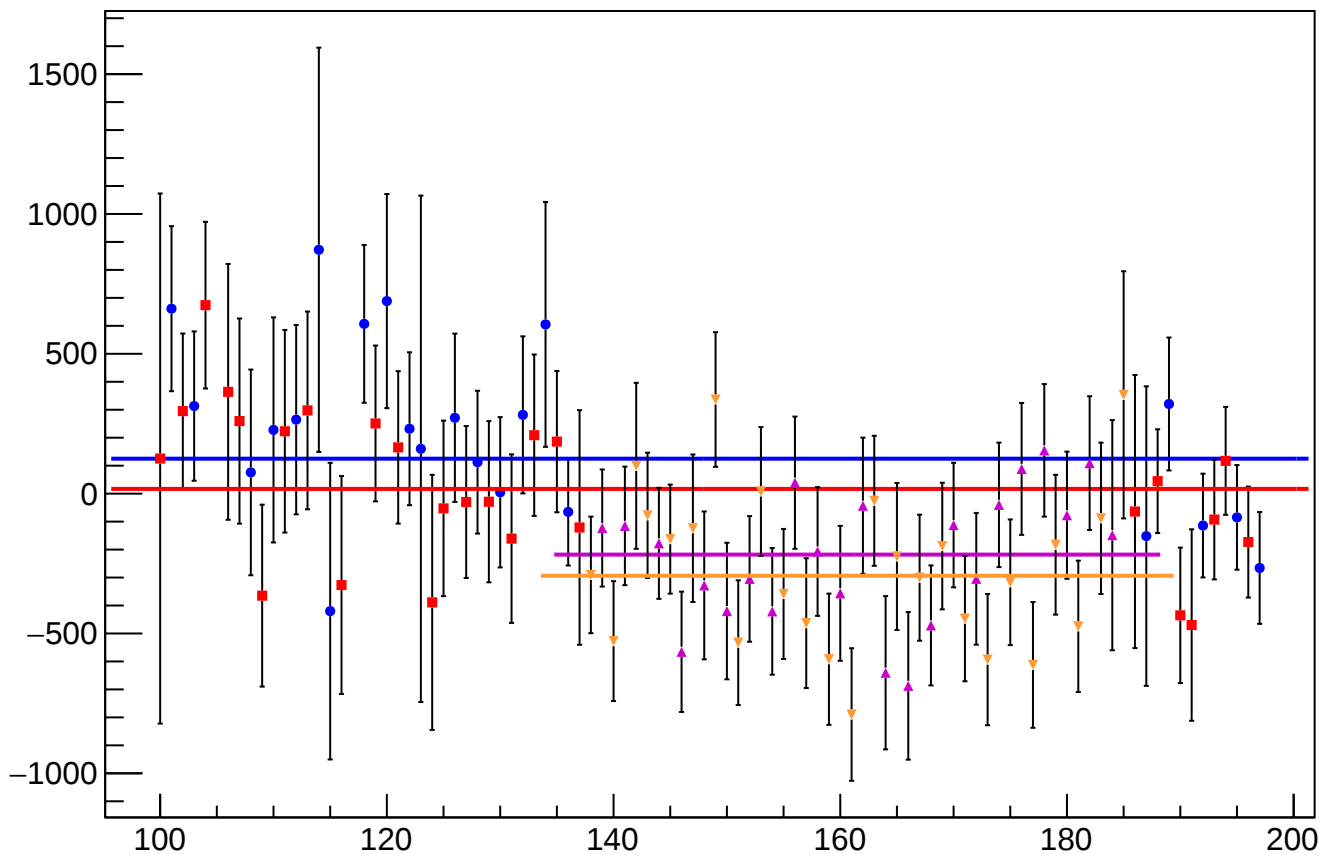
Right: 662.785 $\pm$ 0.106 χ^2 /NDF: 2607463.8/47

In: 665.100 $\pm$ 0.092 χ^2 /NDF: 1382762.9/44

Out: 660.789 $\pm$ 0.087 χ^2 /NDF: 2030384.1/50

All: 662.844 $\pm$ 0.063 χ^2 /NDF: 3414304.1/95

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 125.007 $\pm$ 60.137 χ^2 /NDF: 22.0/21

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

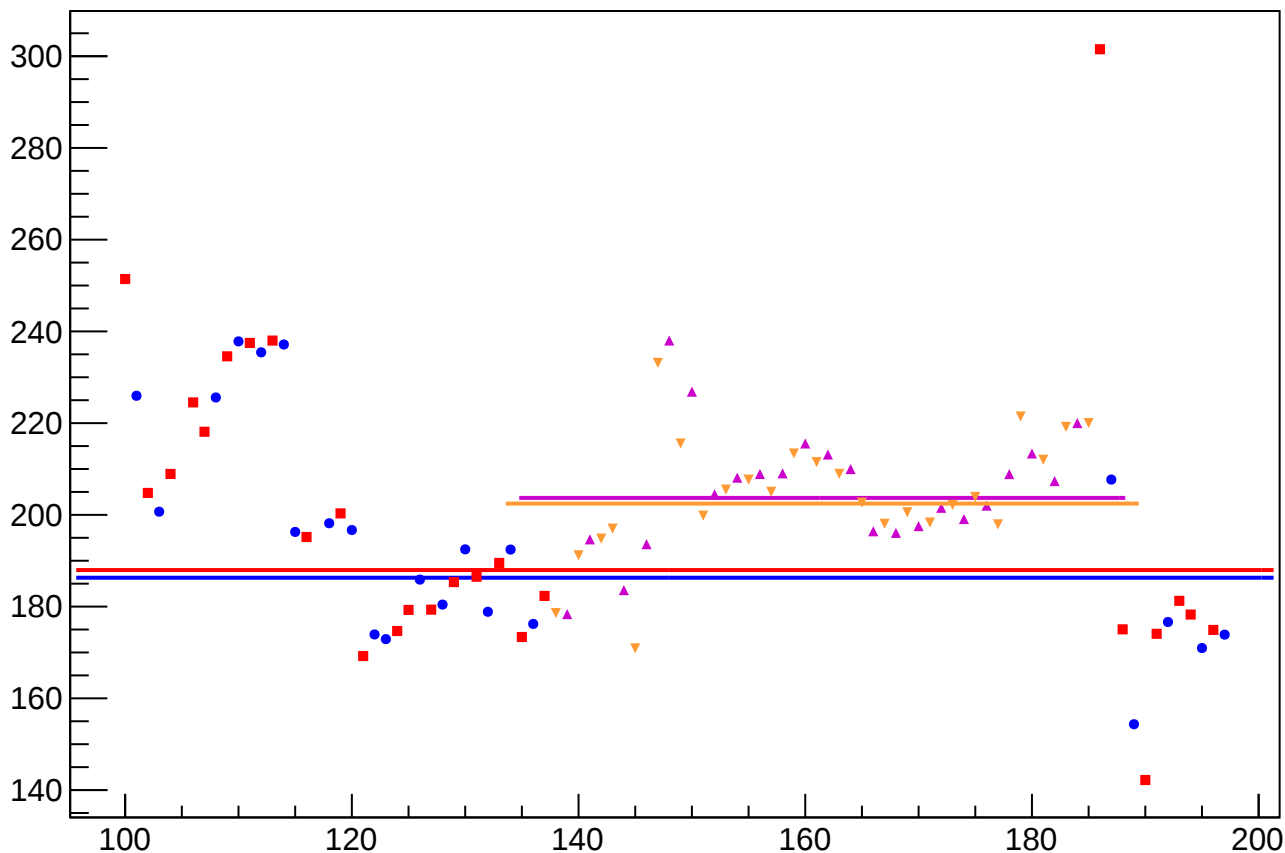
Right: 67.587 $\pm$ 41.170 χ^2 /NDF: 44.0/47

In: -81.724 $\pm$ 37.902 χ^2 /NDF:63.0/44

Out: -165.892 $\pm$ 36.219 χ^2 /NDF:68.4/50

All: -125.718 $\pm$ 26.186 χ^2 /NDF: 133.9/95

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 186.297 $\pm$ 0.043 χ^2 /NDF: 235232.9/21

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

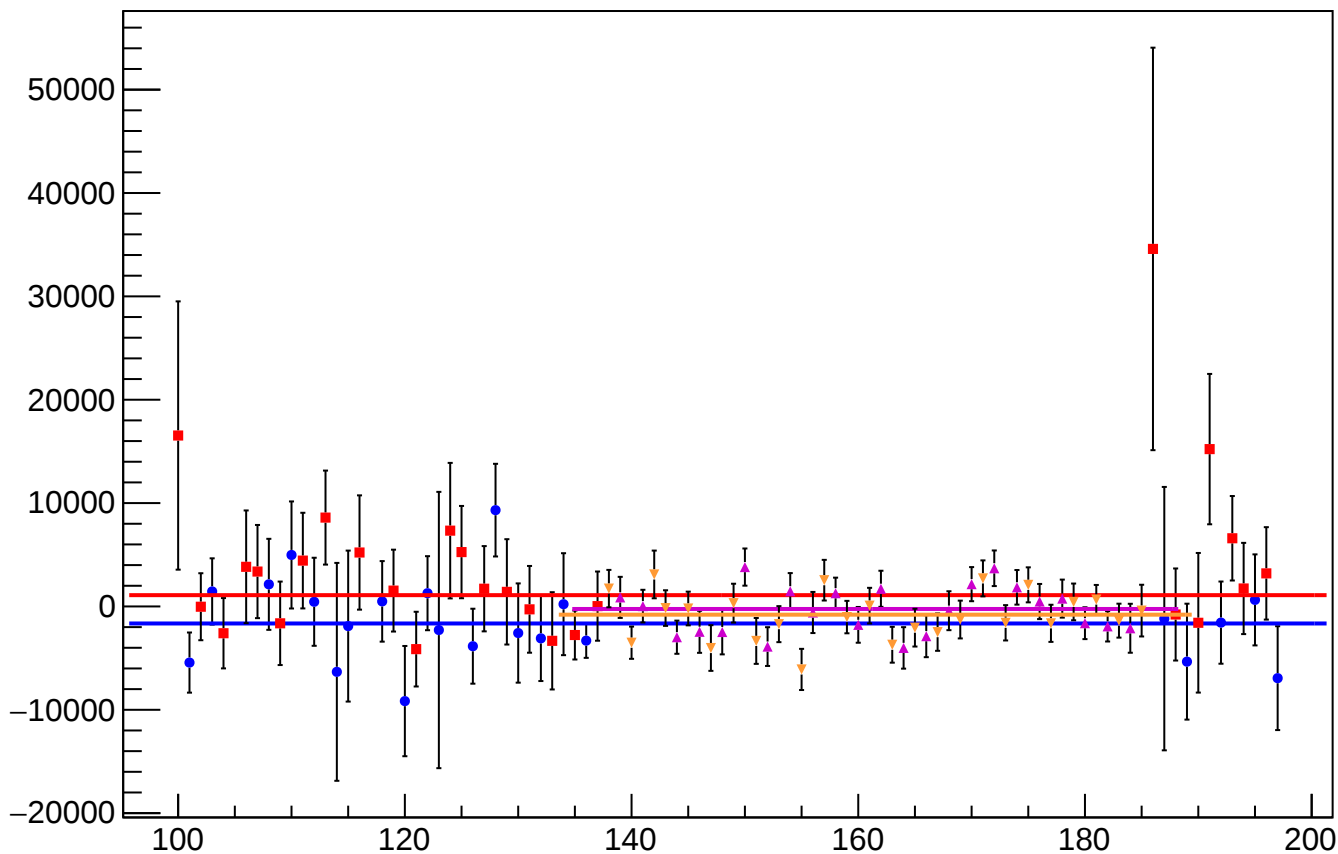
Right: 187.186 $\pm$ 0.029 χ^2 /NDF: 641957.6/47

In: 196.786 $\pm$ 0.027 χ^2 /NDF:472368.0/44

Out: 196.501 $\pm$ 0.026 χ^2 /NDF:641963.9/50

All: 196.637 $\pm$ 0.019 χ^2 /NDF: 1114391.3/95

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1648.266+/-847.207 χ^2/NDF : 17.9/21

Left Out: -796.528+/-357.851 χ^2/NDF : 35.7/24

Right Out: 1091.941+/-846.597 χ^2/NDF : 24.2/25

Left In: -245.102+/-369.846 χ^2/NDF : 35.7/22

Left: -529.902+/-257.175 χ^2/NDF : 72.6/47

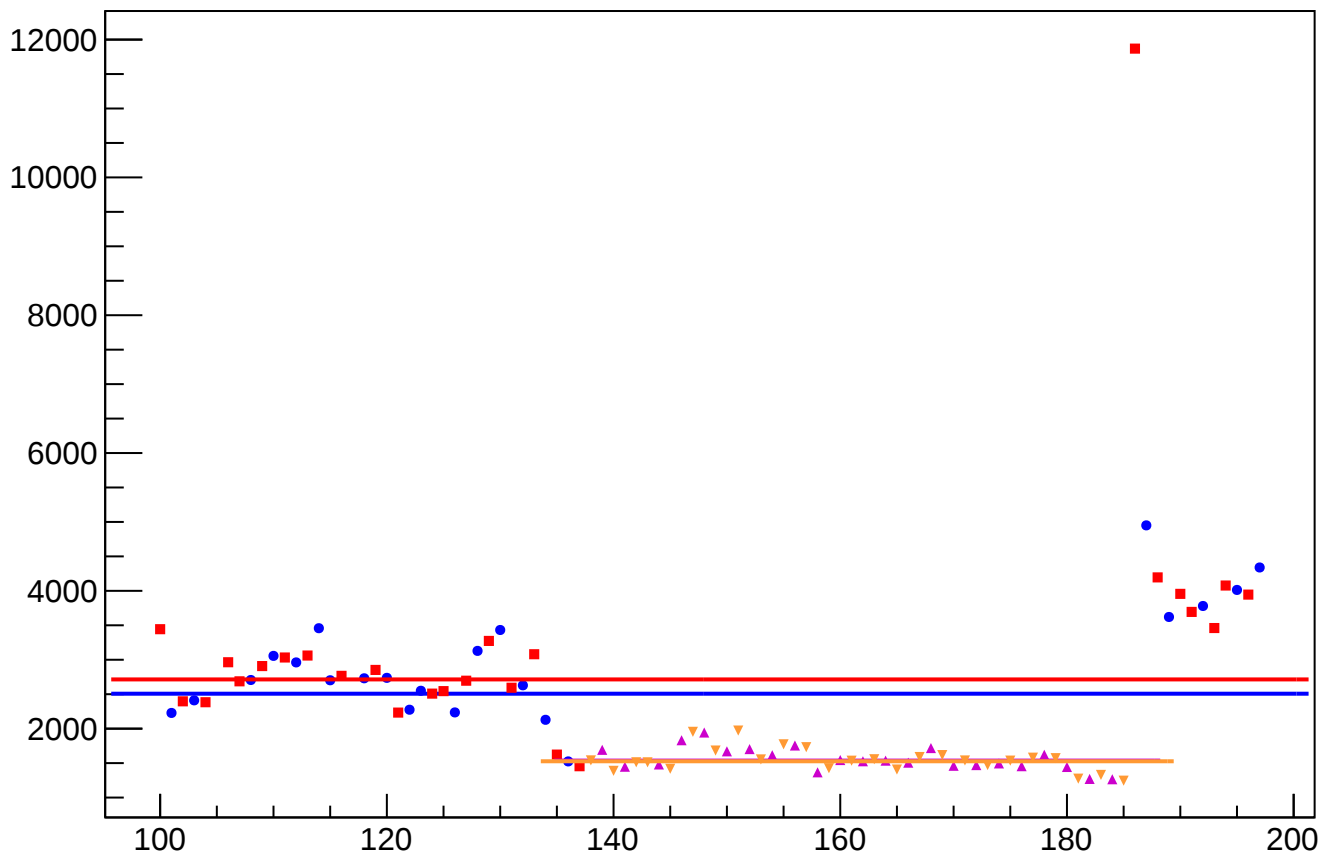
Right: -277.175+/-598.850 χ^2/NDF : 47.3/47

In: -469.705+/-338.956 χ^2/NDF : 55.9/44

Out: -510.263+/-329.614 χ^2/NDF : 64.2/50

All: -490.550+/-236.306 χ^2/NDF : 120.1/95

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2507.157+/-0.599 χ^2/NDF : 1795939.3/21

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

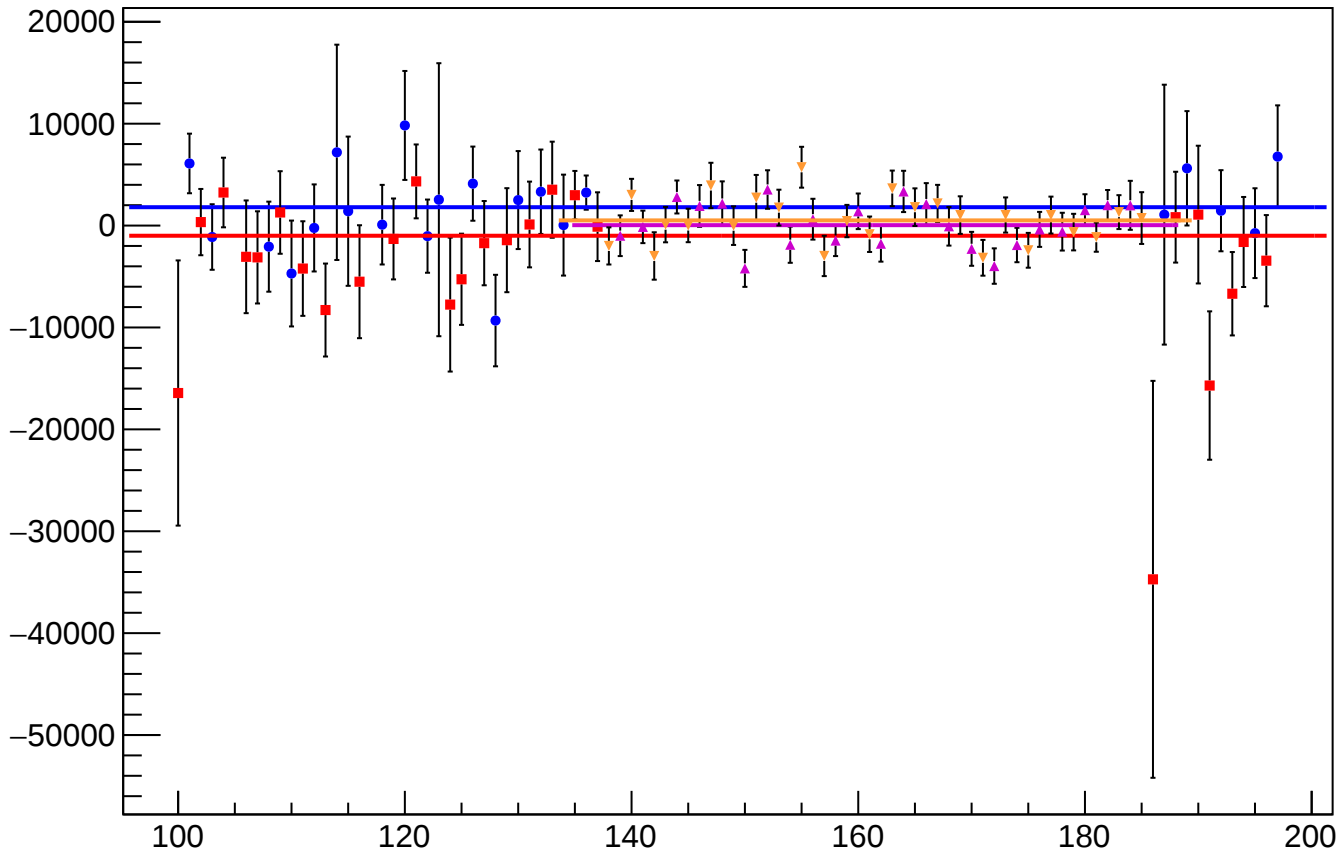
Right: 2610.934+/-0.423 χ^2/NDF : 3895010.0/47

In: 1691.904+/-0.240 χ^2/NDF : 4351229.7/44

Out: 1706.773+/-0.233 χ^2/NDF : 5774458.8/50

All: 1699.546+/-0.167 χ^2/NDF : 10127666.7/95

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1803.118+/-850.545 χ^2/NDF : 18.2/21

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -997.507+/-849.583 χ^2/NDF : 25.1/25

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

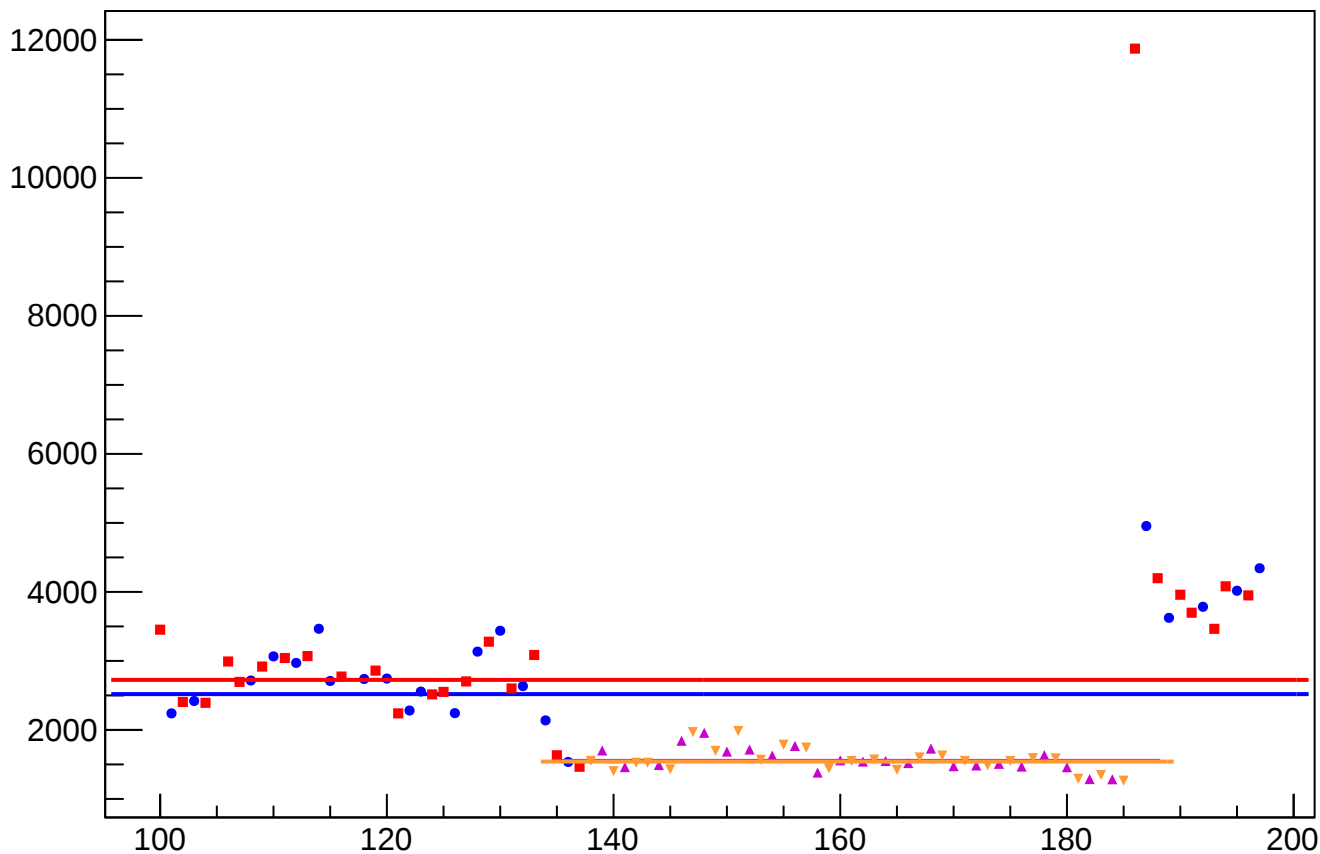
Right: 401.221+/-601.086 χ^2/NDF : 48.8/47

In: 324.789+/-341.796 χ^2/NDF : 55.4/44

Out: 277.548+/-332.384 χ^2/NDF : 63.1/50

All: 300.509+/-238.289 χ^2/NDF : 118.6/95

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2518.768 $\pm$ 0.601 χ^2/NDF : 1773236.2/21

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

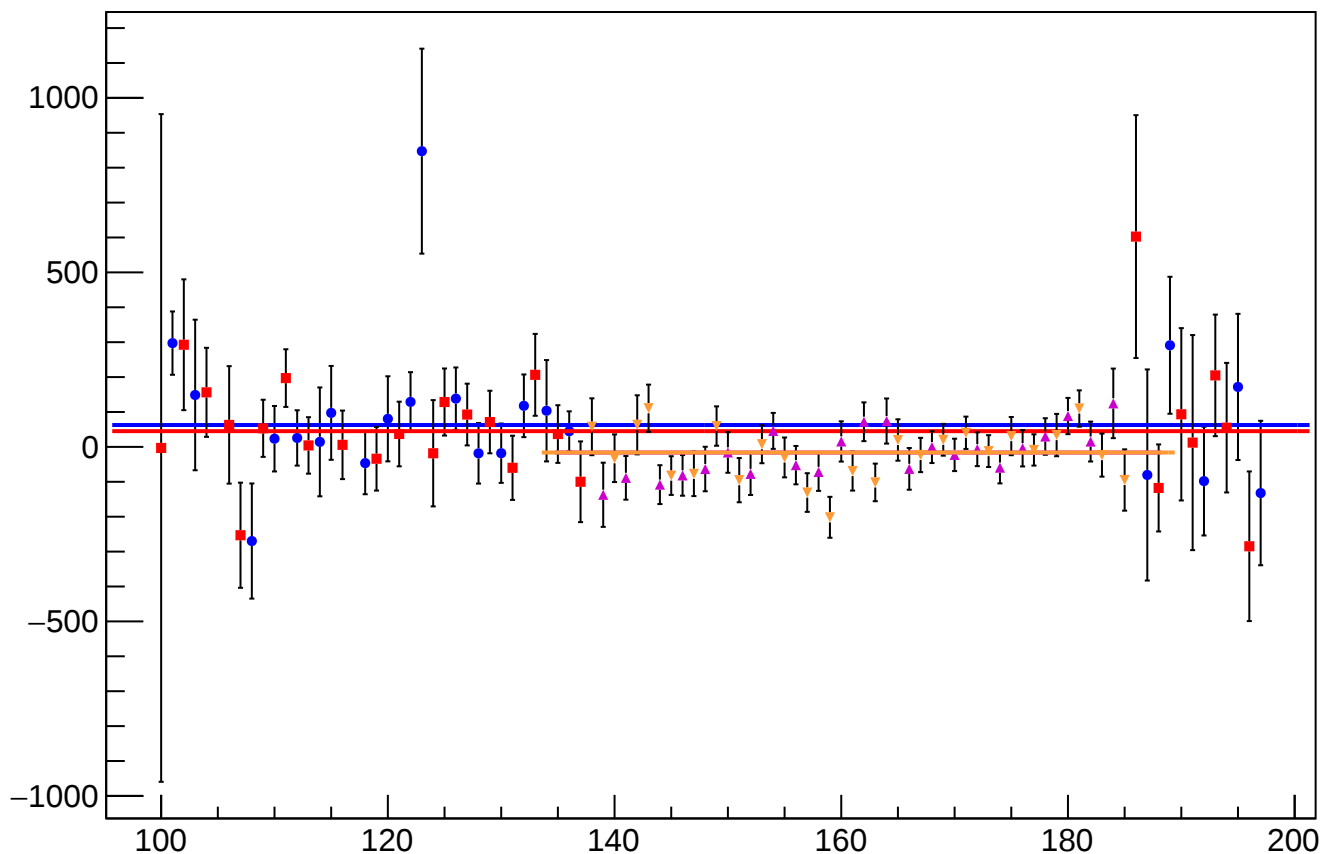
Right: 2622.036 $\pm$ 0.425 χ^2/NDF : 3852269.8/47

In: 1707.336 $\pm$ 0.242 χ^2/NDF : 4282986.3/44

Out: 1722.456 $\pm$ 0.235 χ^2/NDF : 5690959.1/50

All: 1715.107 $\pm$ 0.168 χ^2/NDF : 9975956.8/95

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 62.647 $\pm$ 22.999 χ^2 /NDF: 27.6/21

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

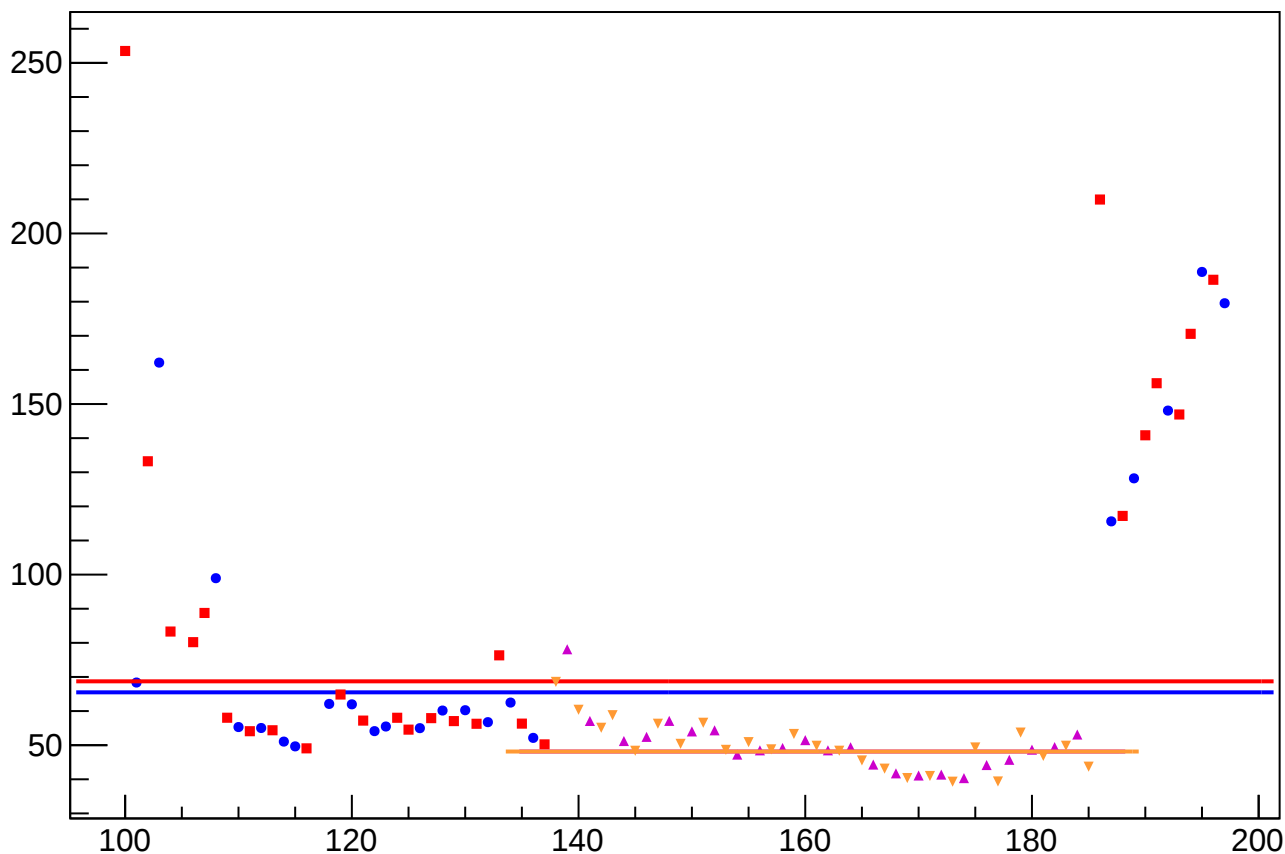
Right: 53.702 $\pm$ 16.118 χ^2 /NDF: 52.5/47

In: -0.070 $\pm$ 10.392 χ^2 /NDF:62.2/44

Out: -3.751 $\pm$ 10.135 χ^2 /NDF:70.1/50

All: -1.957 $\pm$ 7.256 χ^2 /NDF: 132.4/95

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 65.491 ± 0.016 $\chi^2/\text{NDF}: 2924353.5/21$

Left Out: 48.141 ± 0.008 $\chi^2/\text{NDF}: 655250.3/24$

Right Out: 68.716 ± 0.016 $\chi^2/\text{NDF}: 3487003.3/25$

Left In: 48.139 ± 0.008 $\chi^2/\text{NDF}: 575025.5/22$

Left: 48.140 ± 0.006 $\chi^2/\text{NDF}: 1230275.9/47$

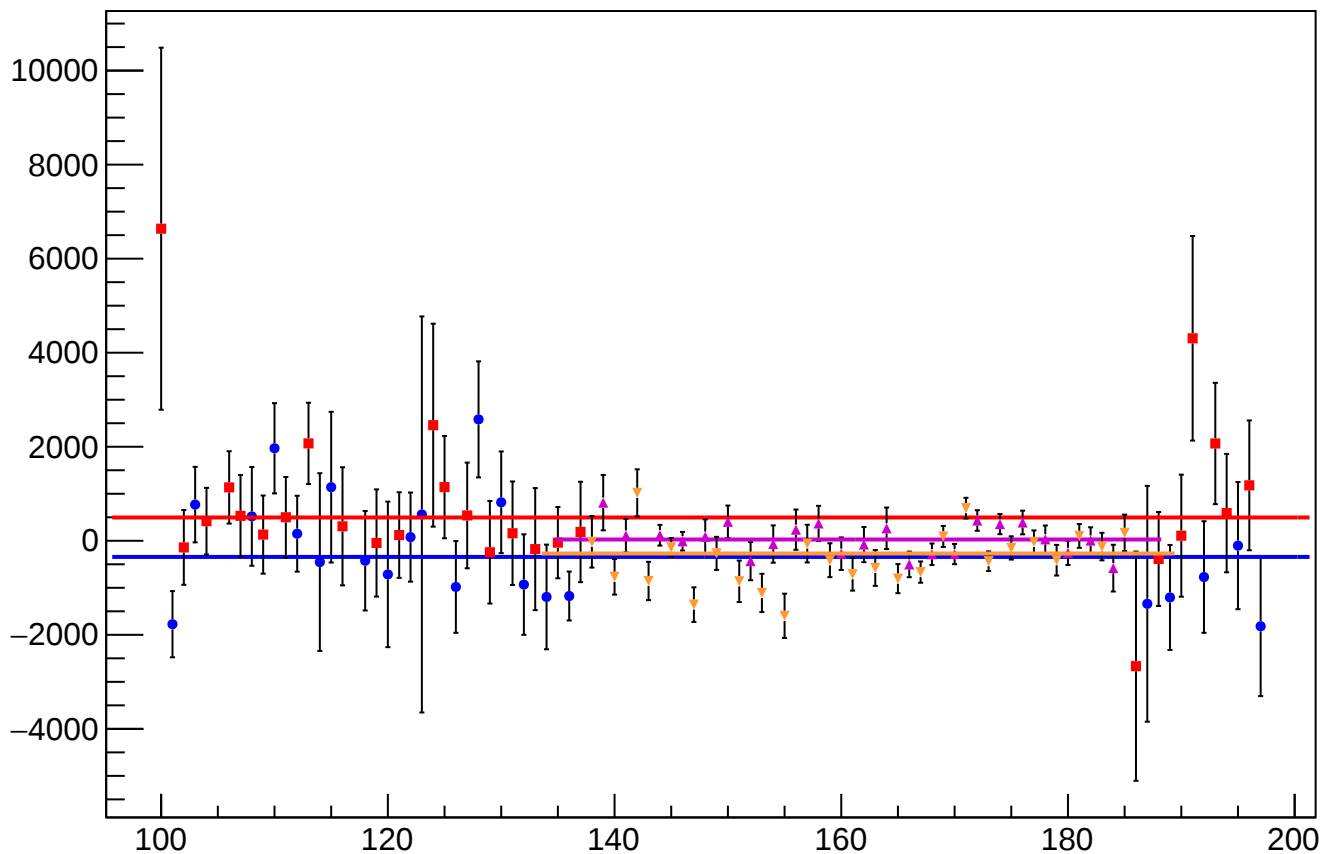
Right: 67.132 ± 0.011 $\chi^2/\text{NDF}: 6431368.5/47$

In: 51.682 ± 0.007 $\chi^2/\text{NDF}: 4405401.8/44$

Out: 52.281 ± 0.007 $\chi^2/\text{NDF}: 5467140.0/50$

All: 51.989 ± 0.005 $\chi^2/\text{NDF}: 9875944.1/95$

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -343.201 ± 218.938 χ^2/NDF : 26.6/21

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 495.575 ± 204.651 χ^2/NDF : 17.8/25

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

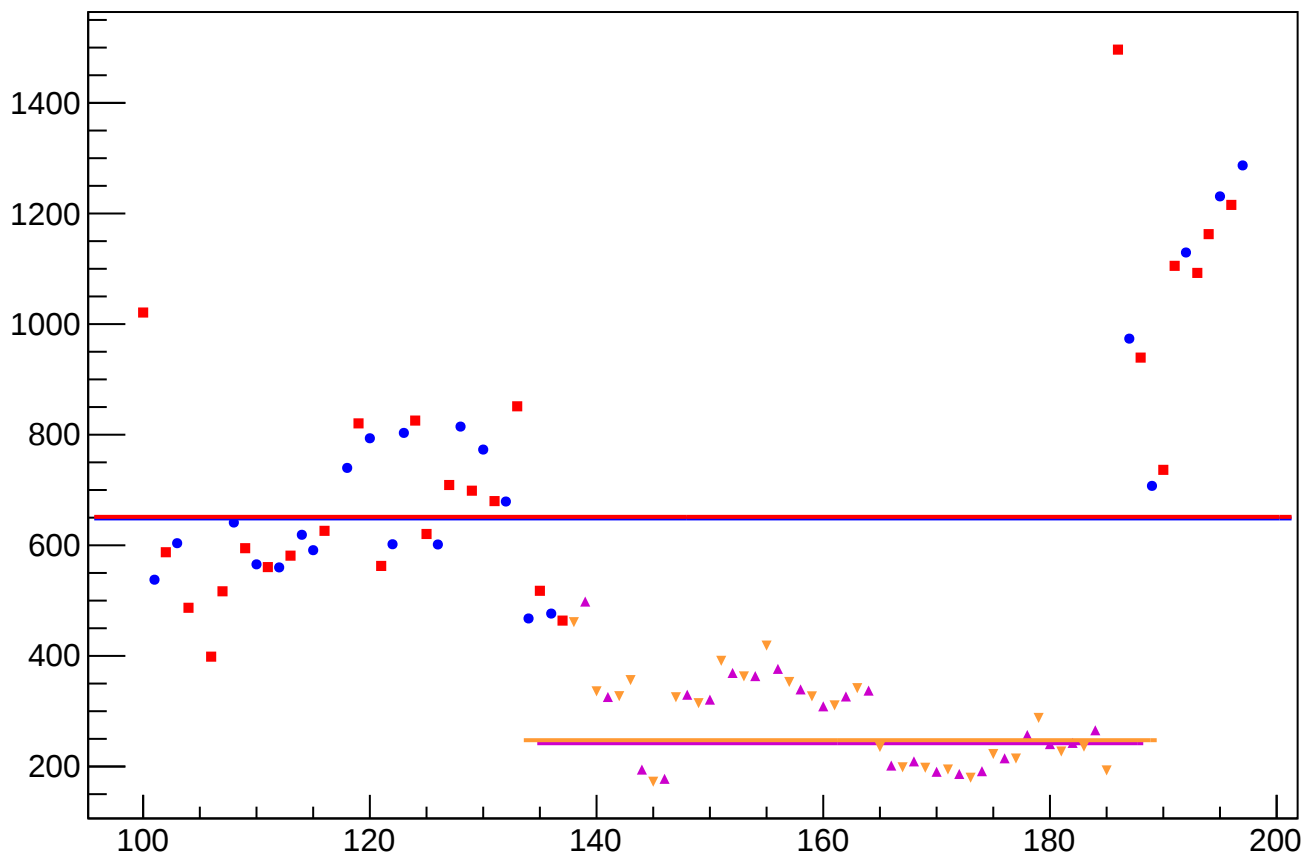
Right: 104.447 ± 149.506 χ^2/NDF : 52.2/47

In: 1.045 ± 58.252 χ^2/NDF : 54.3/44

Out: -209.269 ± 57.733 χ^2/NDF : 100.7/50

All: -105.053 ± 41.006 χ^2/NDF : 161.6/95

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 648.609 $\pm$ 0.155 χ^2 /NDF: 1586479.3/21

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 651.446 $\pm$ 0.145 χ^2 /NDF: 2108014.4/25

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

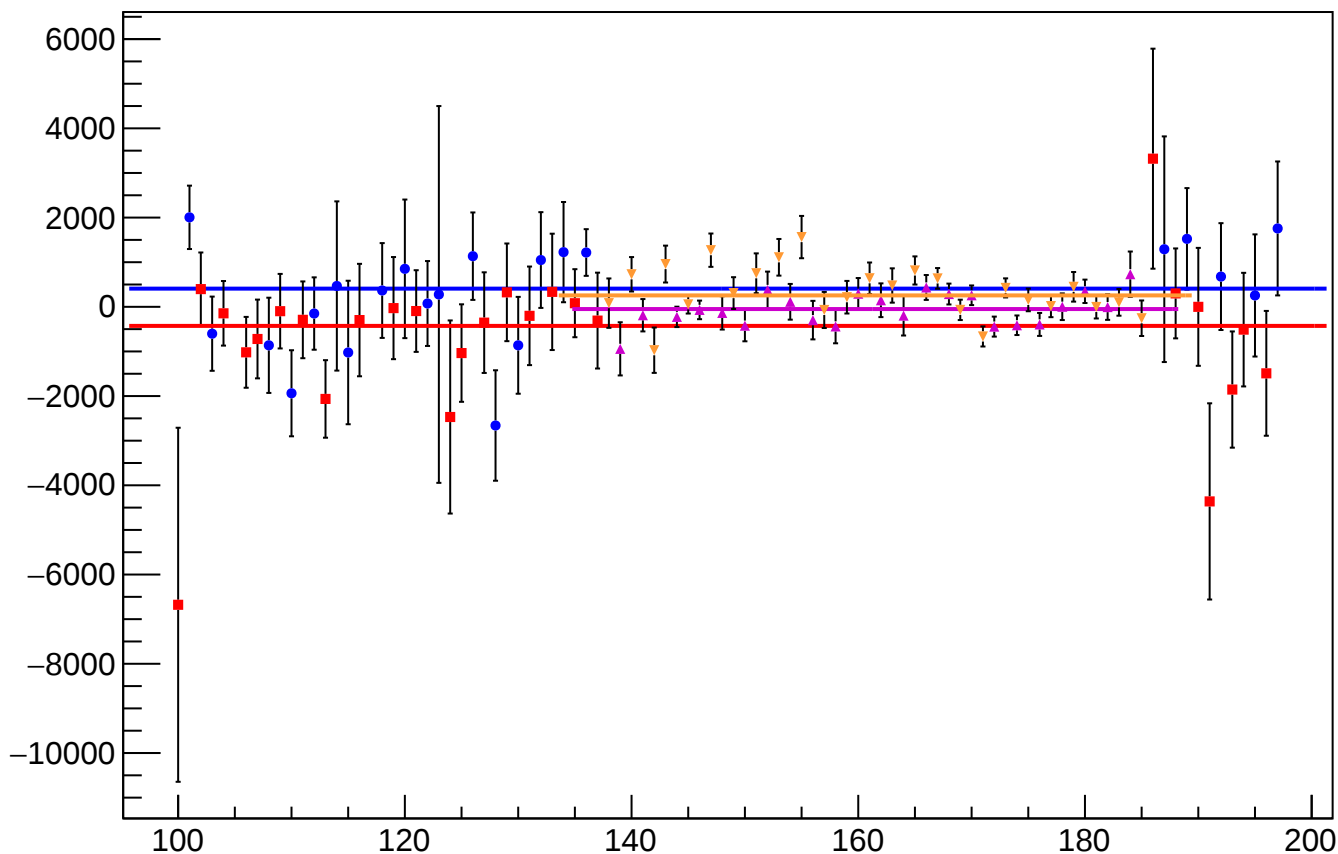
Right: 650.123 $\pm$ 0.106 χ^2 /NDF: 3694673.0/47

In: 270.893 $\pm$ 0.041 χ^2 /NDF: 10458849.6/44

Out: 279.712 $\pm$ 0.041 χ^2 /NDF: 12058354.4/50

All: 275.342 $\pm$ 0.029 χ^2 /NDF: 22540332.0/95

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 407.700 $\pm$ 220.915 χ^2 /NDF: 28.6/21

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

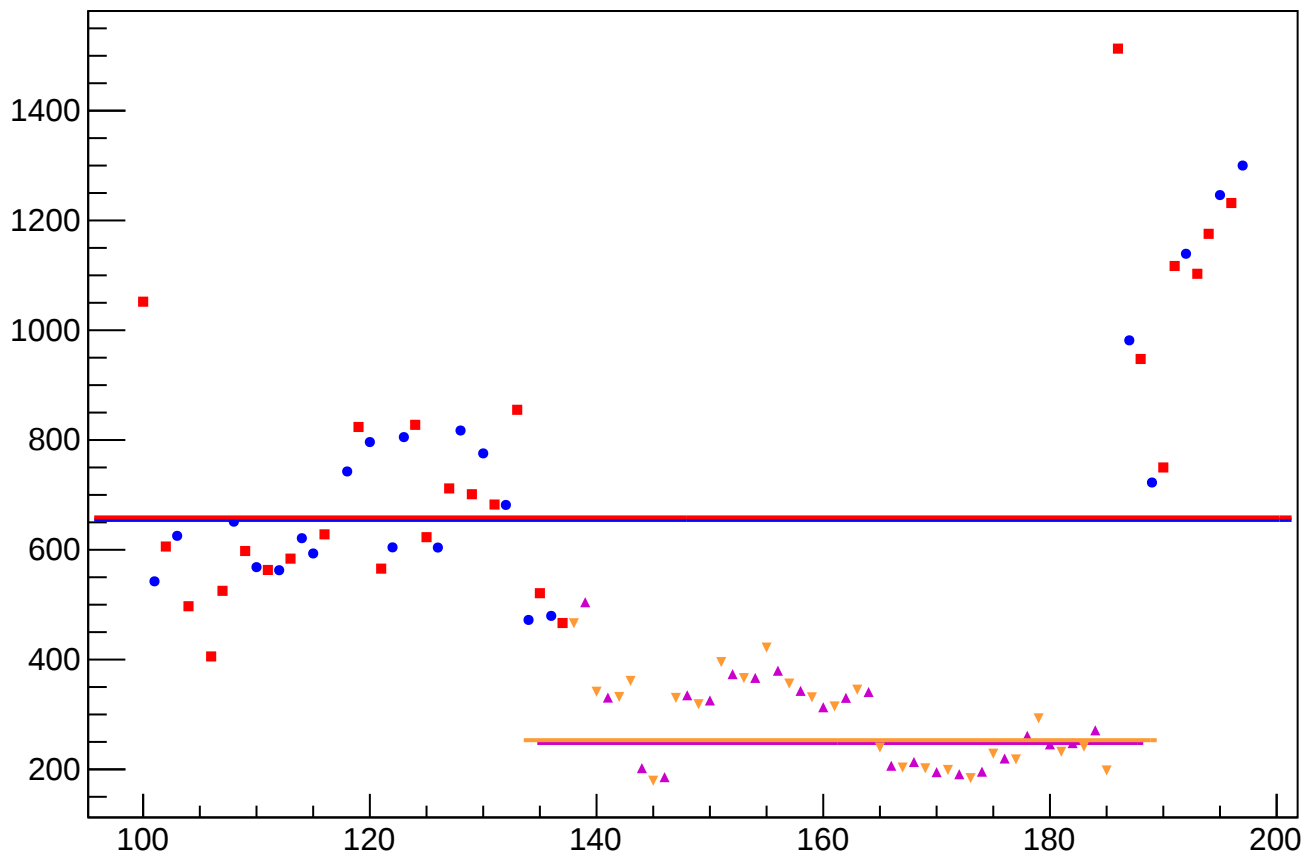
Right: -36.960 $\pm$ 151.051 χ^2 /NDF: 55.0/47

In: -16.644 $\pm$ 59.498 χ^2 /NDF:60.1/44

Out: 200.703 $\pm$ 58.881 χ^2 /NDF:92.4/50

All: 93.162 $\pm$ 41.852 χ^2 /NDF: 159.2/95

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 654.472 ± 0.156 $\chi^2/\text{NDF}: 1590204.5/21$

Left Out: 253.137 ± 0.043 $\chi^2/\text{NDF}: 2665975.8/24$

Right Out: 659.003 ± 0.146 $\chi^2/\text{NDF}: 2086372.3/25$

Left In: 248.069 ± 0.044 $\chi^2/\text{NDF}: 2343295.0/22$

Left: 250.618 ± 0.031 $\chi^2/\text{NDF}: 5016040.5/47$

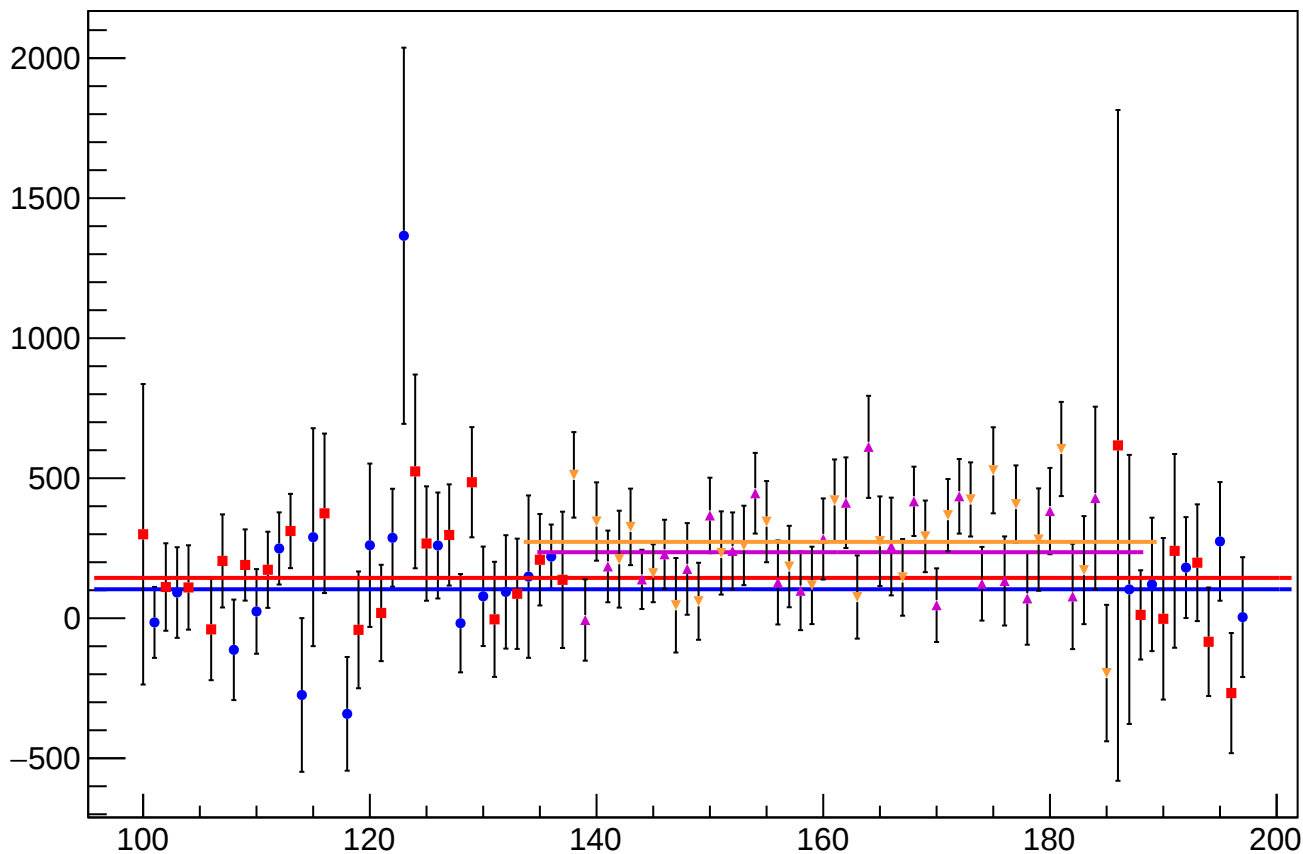
Right: 656.884 ± 0.107 $\chi^2/\text{NDF}: 3677024.8/47$

In: 277.548 ± 0.042 $\chi^2/\text{NDF}: 10211072.8/44$

Out: 285.976 ± 0.042 $\chi^2/\text{NDF}: 11818902.0/50$

All: 281.806 ± 0.030 $\chi^2/\text{NDF}: 22050250.2/95$

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 103.461+/-39.909 χ^2/NDF : 19.0/21

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

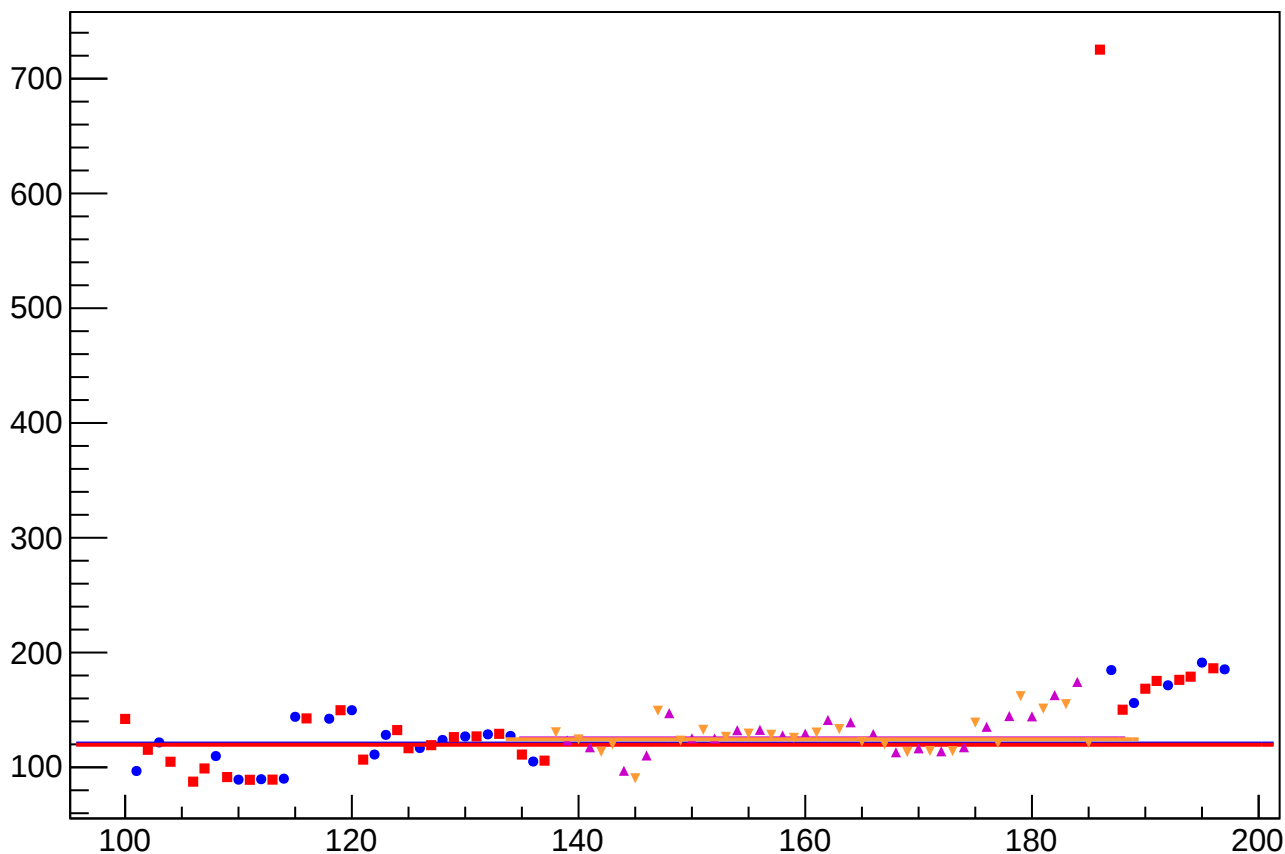
Right: 125.165+/-27.223 χ^2/NDF : 37.0/47

In: 187.549+/-24.098 χ^2/NDF : 50.6/44

Out: 223.648+/-22.986 χ^2/NDF : 52.3/50

All: 206.450+/-16.633 χ^2/NDF : 104.1/95

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 120.696+/-0.028 χ^2/NDF : 1050176.4/21

Left Out: 124.429+/-0.021 χ^2/NDF : 539731.8/24

Right Out: 119.665+/-0.026 χ^2/NDF : 1733663.6/25

Left In: 125.205+/-0.021 χ^2/NDF : 501388.2/22

Left: 124.804+/-0.015 χ^2/NDF : 1041801.9/47

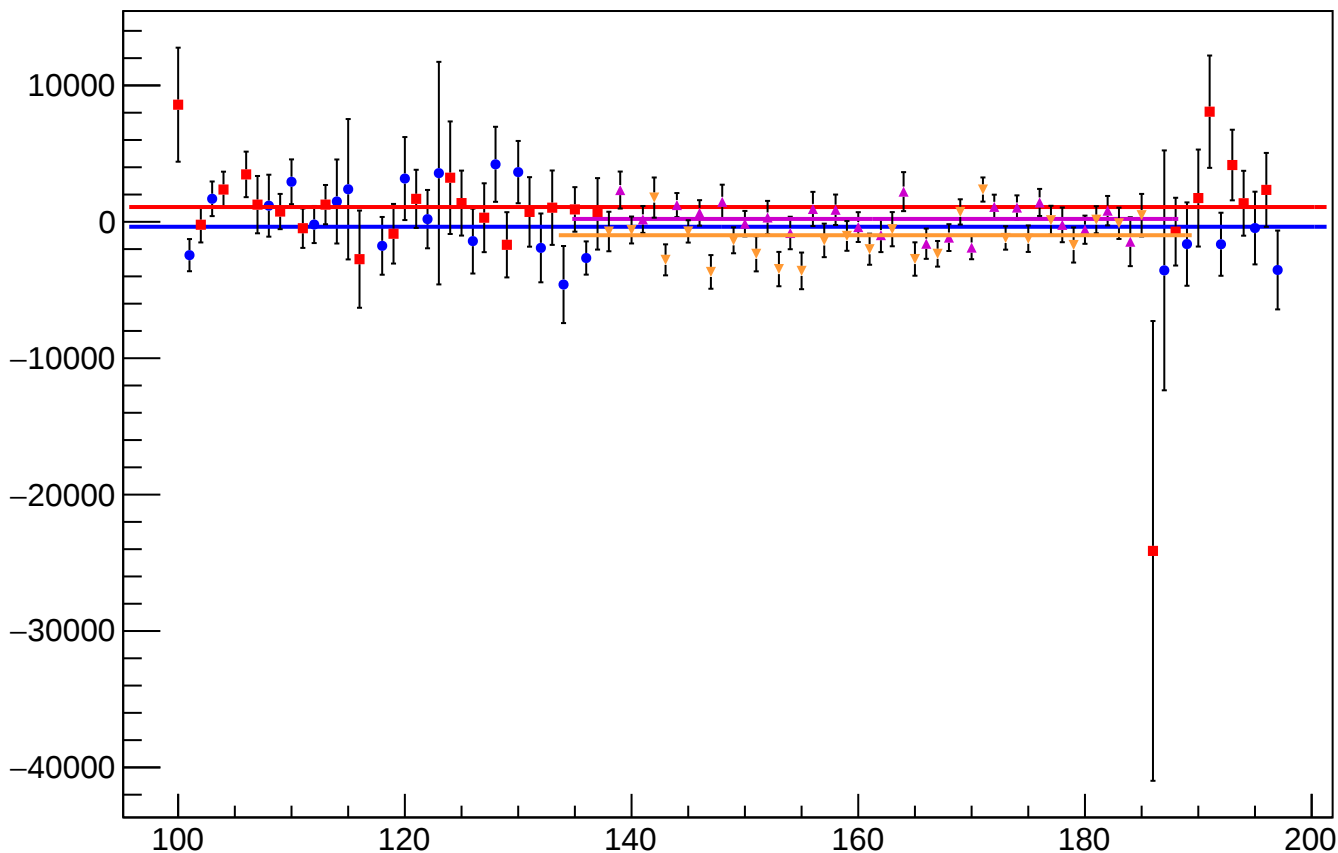
Right: 120.145+/-0.019 χ^2/NDF : 2784554.0/47

In: 123.561+/-0.017 χ^2/NDF : 1567783.5/44

Out: 122.613+/-0.016 χ^2/NDF : 2293656.6/50

All: 123.065+/-0.012 χ^2/NDF : 3863062.1/95

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -362.510 ± 439.468 χ^2/NDF : 27.0/21

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

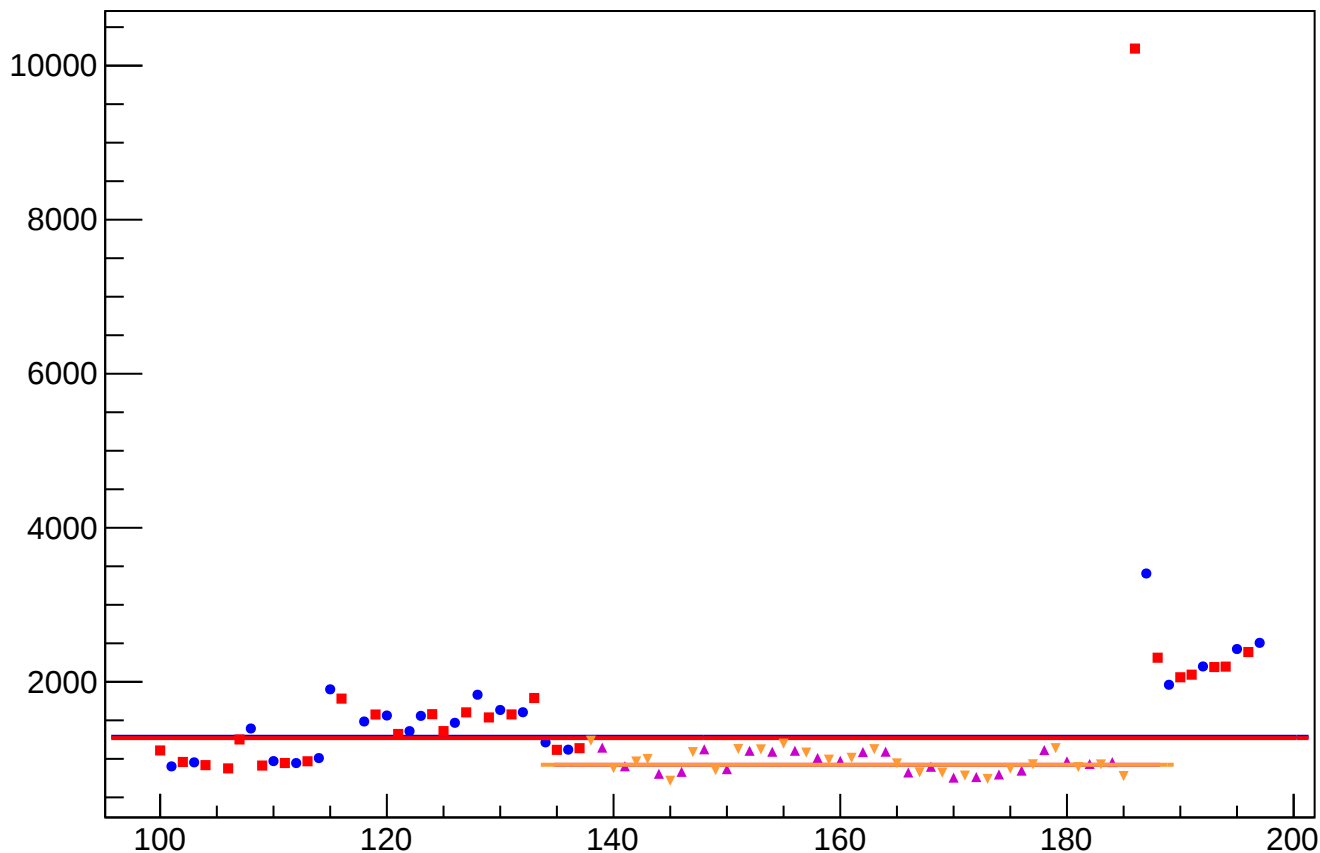
Right: 416.127 ± 298.691 χ^2/NDF : 52.5/47

In: 93.652 ± 199.073 χ^2/NDF : 54.0/44

Out: -522.211 ± 192.205 χ^2/NDF : 86.9/50

All: -225.085 ± 138.274 χ^2/NDF : 145.8/95

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1286.943+/-0.311 χ^2/NDF : 2092907.1/21

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1269.394+/-0.288 χ^2/NDF : 2987029.8/25

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

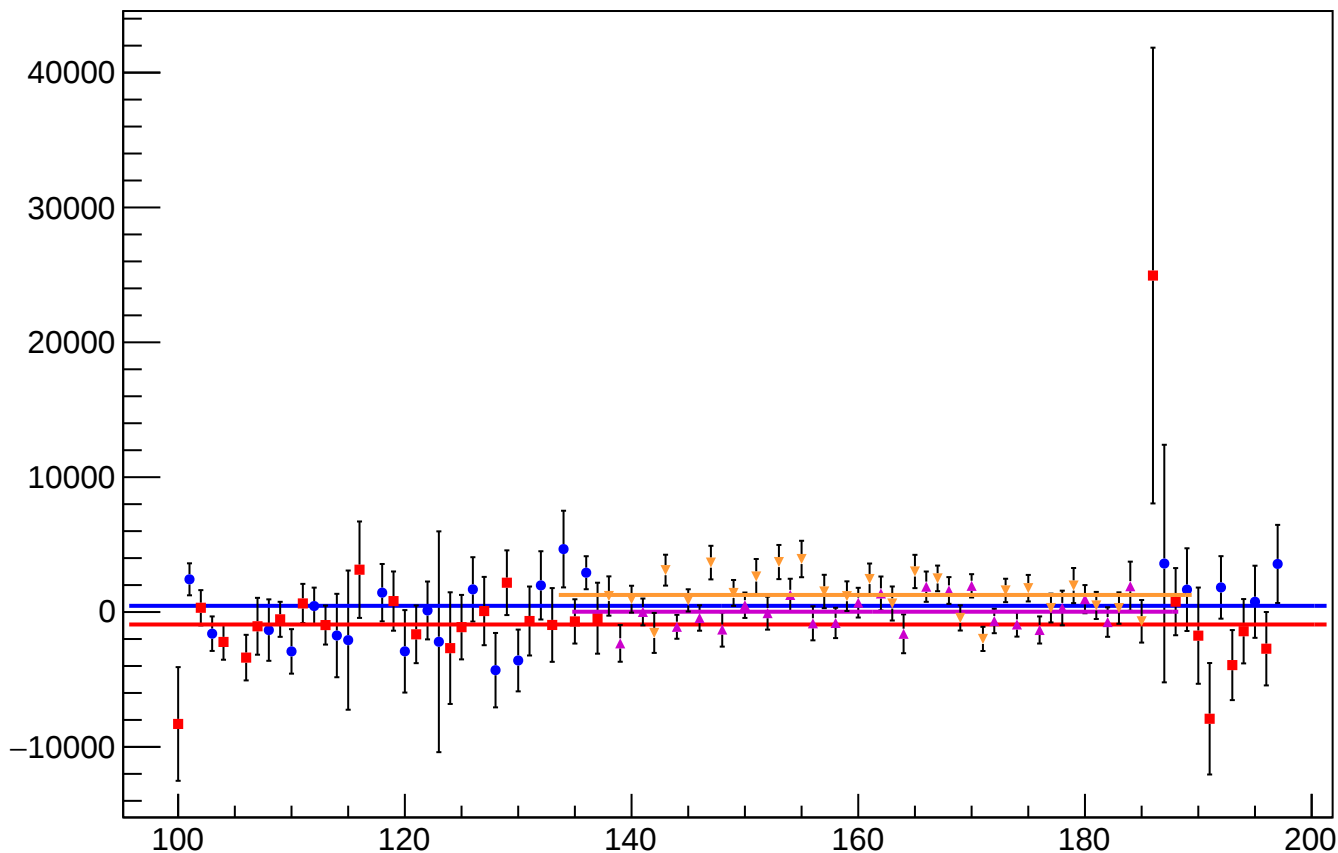
Right: 1277.501+/-0.211 χ^2/NDF : 5081653.1/47

In: 997.080+/-0.141 χ^2/NDF : 3822340.2/44

Out: 1000.632+/-0.136 χ^2/NDF : 4950812.5/50

All: 998.918+/-0.098 χ^2/NDF : 8773482.2/95

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 460.623+/-441.540 χ^2/NDF : 27.2/21

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

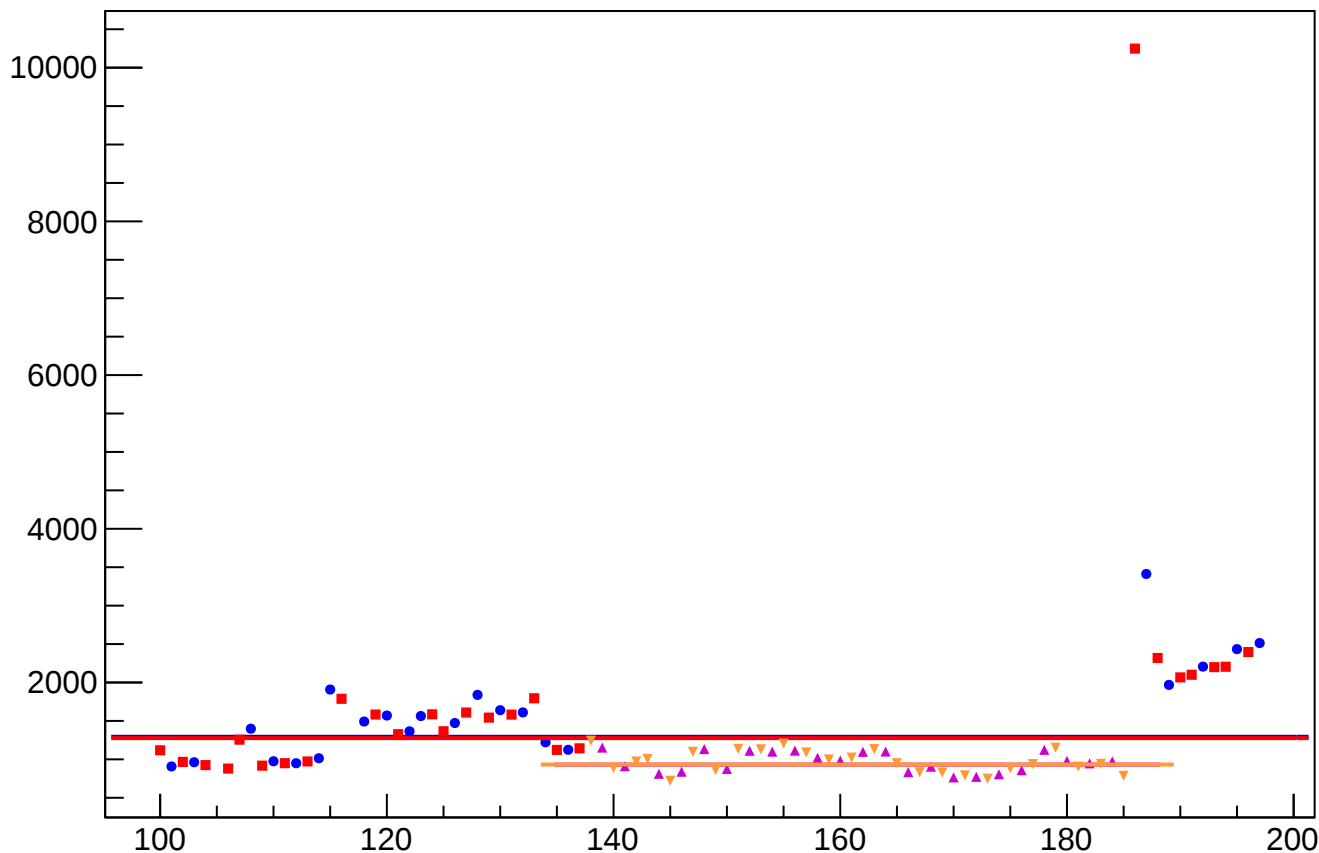
Right: -283.487+/-300.174 χ^2/NDF : 52.4/47

In: 113.903+/-200.819 χ^2/NDF :55.2/44

Out: 775.952+/-193.873 χ^2/NDF :87.1/50

All: 456.574+/-139.480 χ^2/NDF : 147.9/95

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1293.494+/-0.312 χ^2/NDF : 2081326.5/21

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

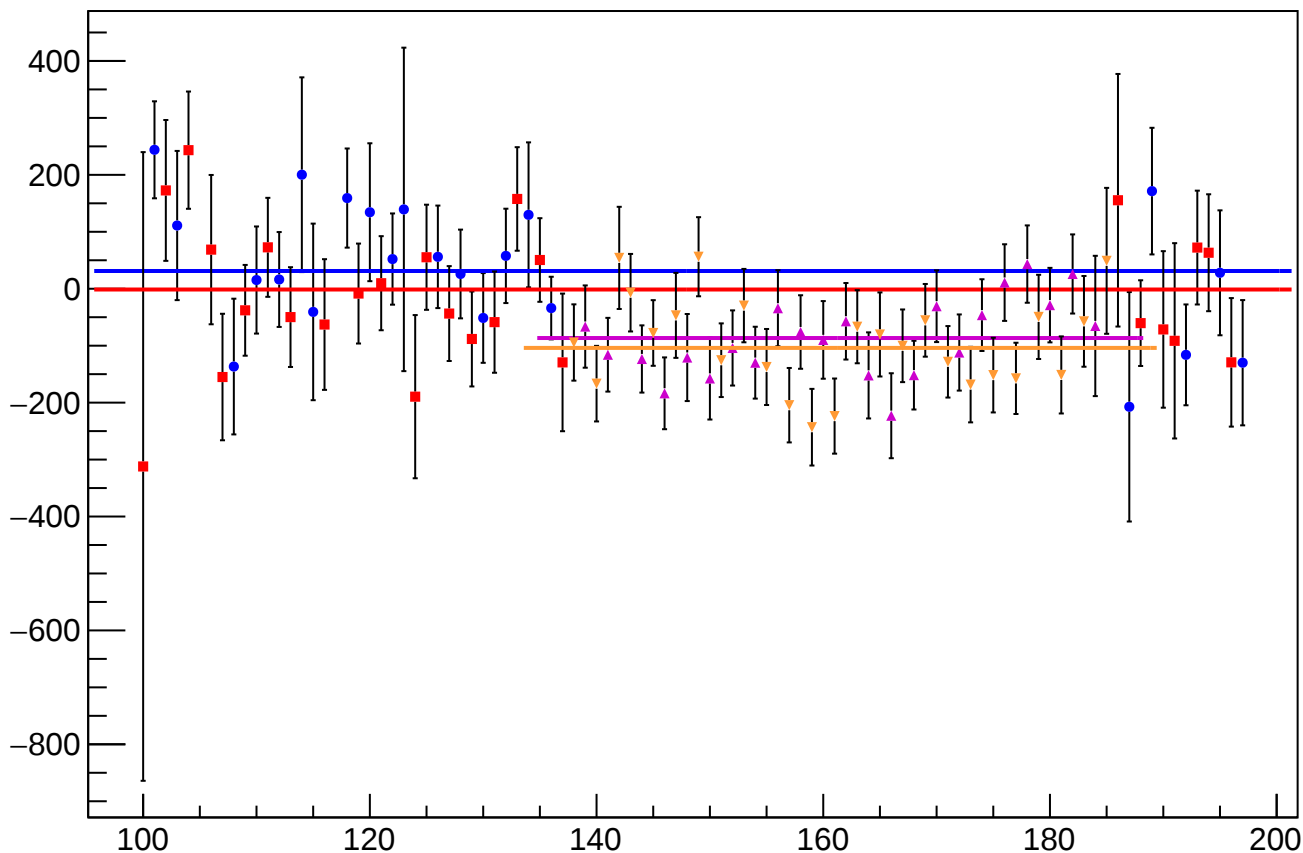
Right: 1284.196+/-0.212 χ^2/NDF : 5055439.8/47

In: 1006.375+/-0.142 χ^2/NDF : 3772022.1/44

Out: 1009.816+/-0.137 χ^2/NDF : 4894439.5/50

All: 1008.156+/-0.099 χ^2/NDF : 8666765.5/95

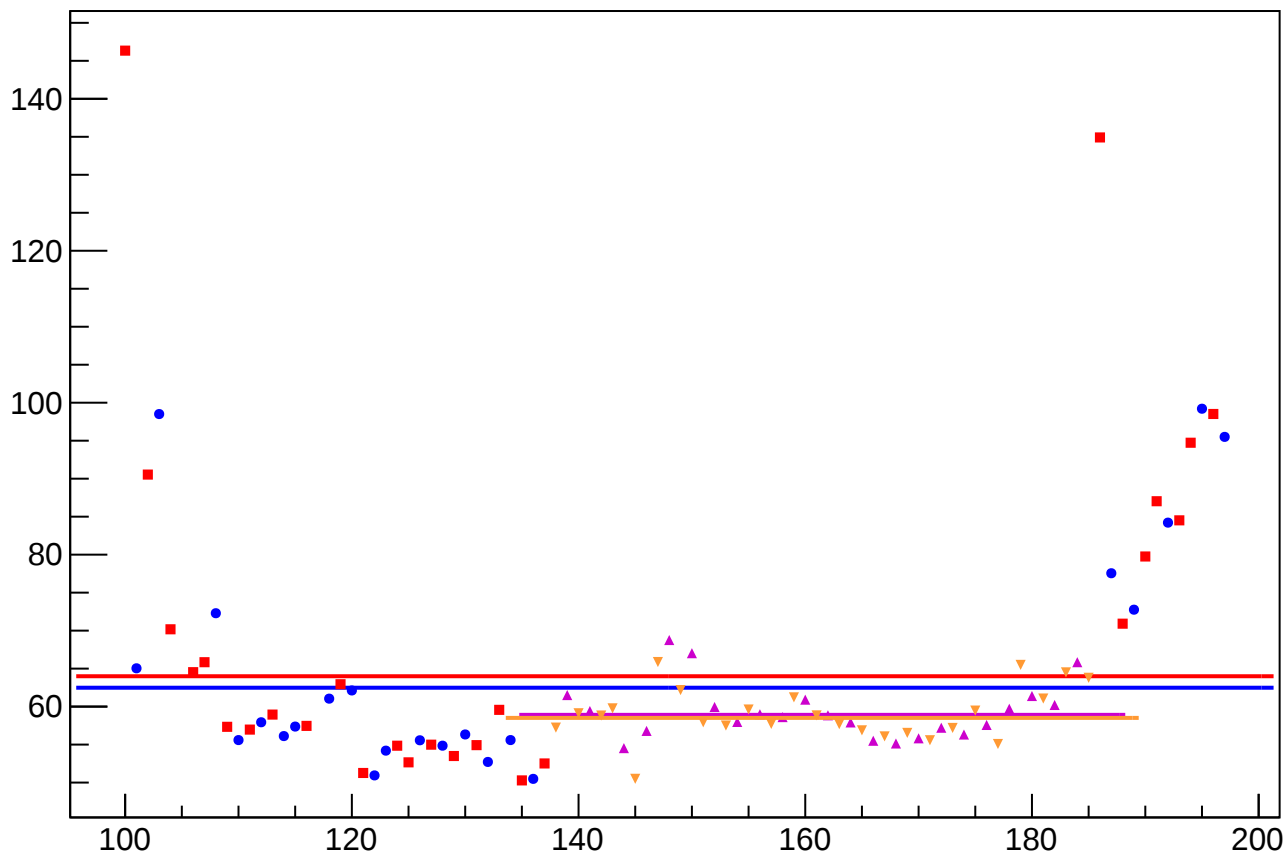
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 31.162 $\pm$ 20.610 χ^2 /NDF: 24.1/21
 Left Out: -103.899 $\pm$ 13.642 χ^2 /NDF:30.0/24
 Right Out: -1.351 $\pm$ 19.658 χ^2 /NDF: 24.1/25
 Left In: -86.542 $\pm$ 14.120 χ^2 /NDF:21.4/22

Left: -95.520 $\pm$ 9.811 χ^2 /NDF: 52.1/47
 Right: 14.138 $\pm$ 14.225 χ^2 /NDF: 49.6/47
 In: -48.942 $\pm$ 11.648 χ^2 /NDF:67.7/44
 Out: -70.566 $\pm$ 11.208 χ^2 /NDF:72.4/50
 All: -60.171 $\pm$ 8.076 χ^2 /NDF: 141.9/95

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 62.485 $\pm$ 0.015 χ^2 /NDF: 957254.8/21

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF: 123221.6/24

Right Out: 63.996 $\pm$ 0.014 χ^2 /NDF: 1173582.8/25

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF: 109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

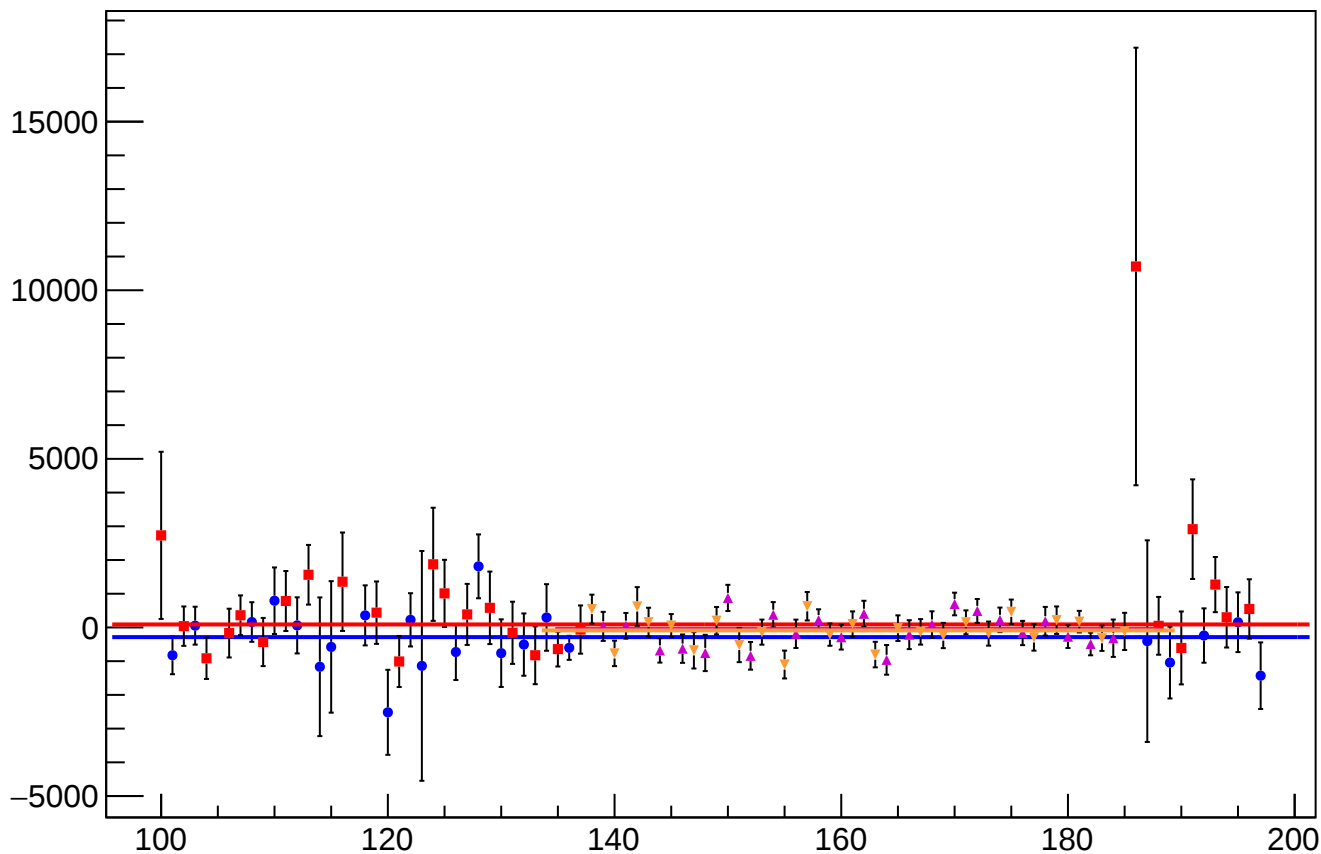
Right: 63.276 $\pm$ 0.010 χ^2 /NDF: 2136468.2/47

In: 60.054 $\pm$ 0.008 χ^2 /NDF: 1108094.9/44

Out: 60.295 $\pm$ 0.008 χ^2 /NDF: 1401820.5/50

All: 60.179 $\pm$ 0.006 χ^2 /NDF: 2510359.8/95

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -286.618 ± 170.898 χ^2/NDF : 16.3/21

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 89.535 ± 164.705 χ^2/NDF : 25.8/25

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

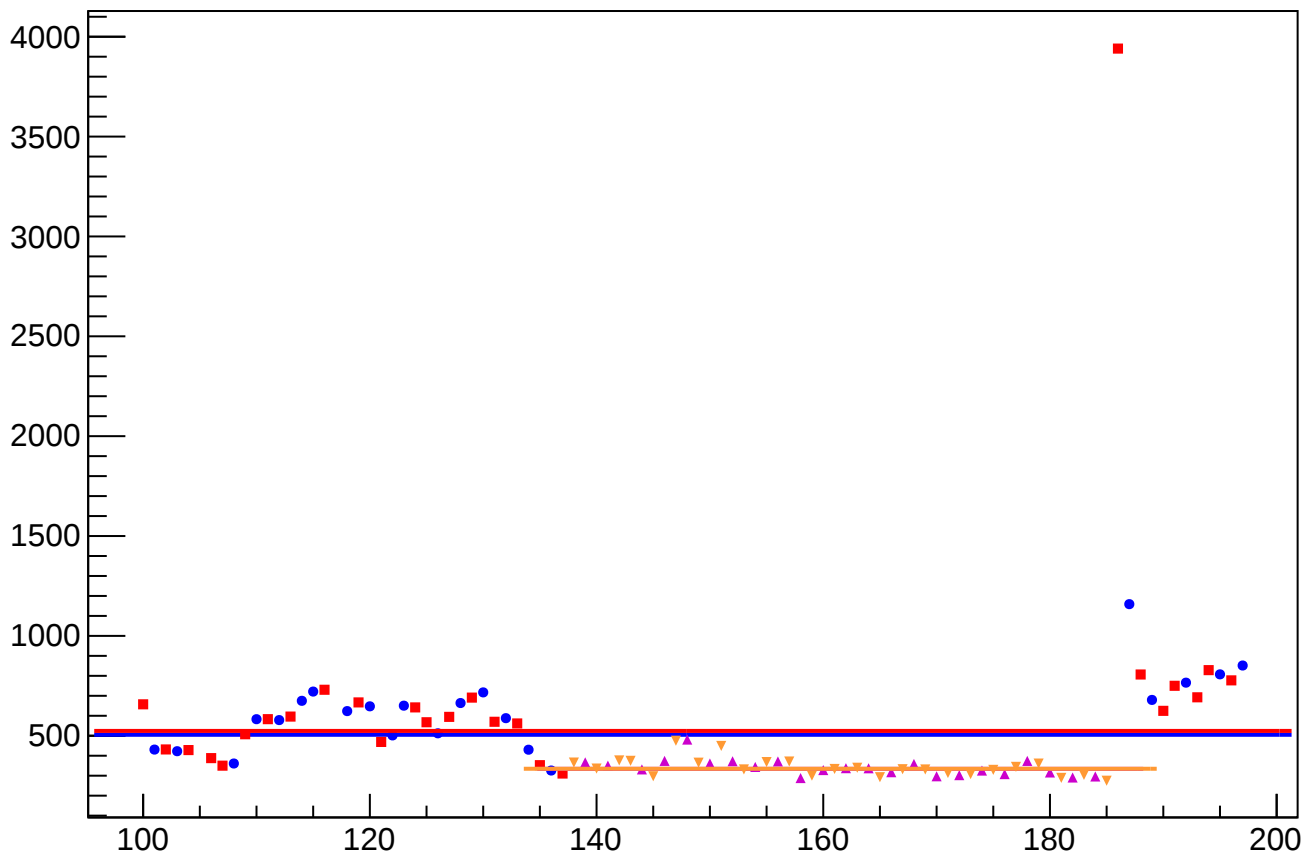
Right: -91.604 ± 118.593 χ^2/NDF : 44.6/47

In: -91.980 ± 72.860 χ^2/NDF : 53.2/44

Out: -54.657 ± 70.905 χ^2/NDF : 54.5/50

All: -72.811 ± 50.814 χ^2/NDF : 107.8/95

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 504.829+/-0.121 χ^2/NDF : 1846257.0/21

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

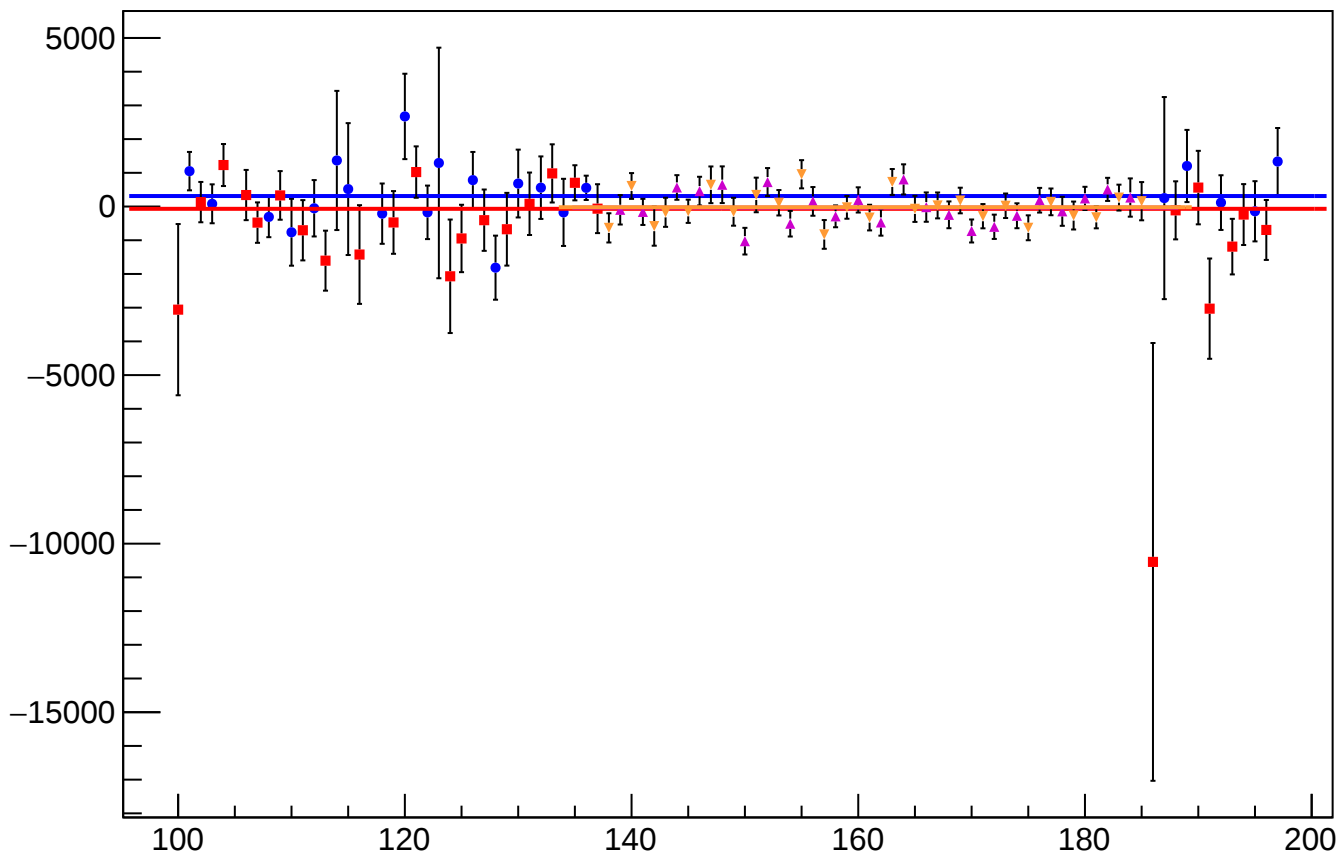
Right: 514.865+/-0.084 χ^2/NDF : 4129068.4/47

In: 365.171+/-0.052 χ^2/NDF : 3875810.7/44

Out: 369.856+/-0.050 χ^2/NDF : 4916298.2/50

All: 367.577+/-0.036 χ^2/NDF : 8796356.5/95

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 311.430 ± 172.791 $\chi^2/\text{NDF}: 17.1/21$

Left Out: -20.895 ± 79.812 $\chi^2/\text{NDF}: 27.2/24$

Right Out: -67.860 ± 166.579 $\chi^2/\text{NDF}: 29.1/25$

Left In: -31.800 ± 81.839 $\chi^2/\text{NDF}: 34.0/22$

Left: -26.211 ± 57.139 $\chi^2/\text{NDF}: 61.3/47$

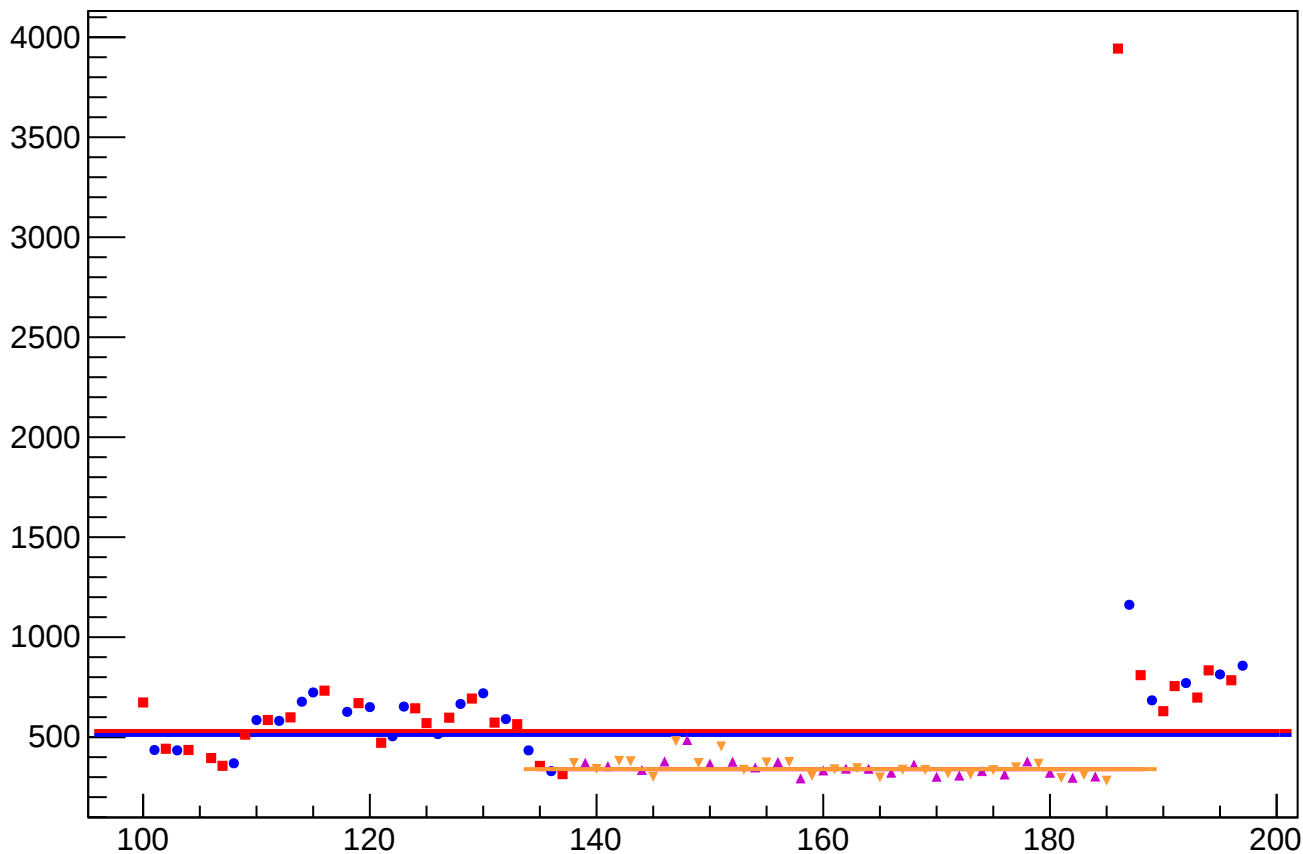
Right: 114.845 ± 119.925 $\chi^2/\text{NDF}: 48.7/47$

In: 31.088 ± 73.963 $\chi^2/\text{NDF}: 54.4/44$

Out: -29.664 ± 71.977 $\chi^2/\text{NDF}: 56.4/50$

All: -0.114 ± 51.583 $\chi^2/\text{NDF}: 111.1/95$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 511.170+/-0.122 χ^2/NDF : 1797777.0/21

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

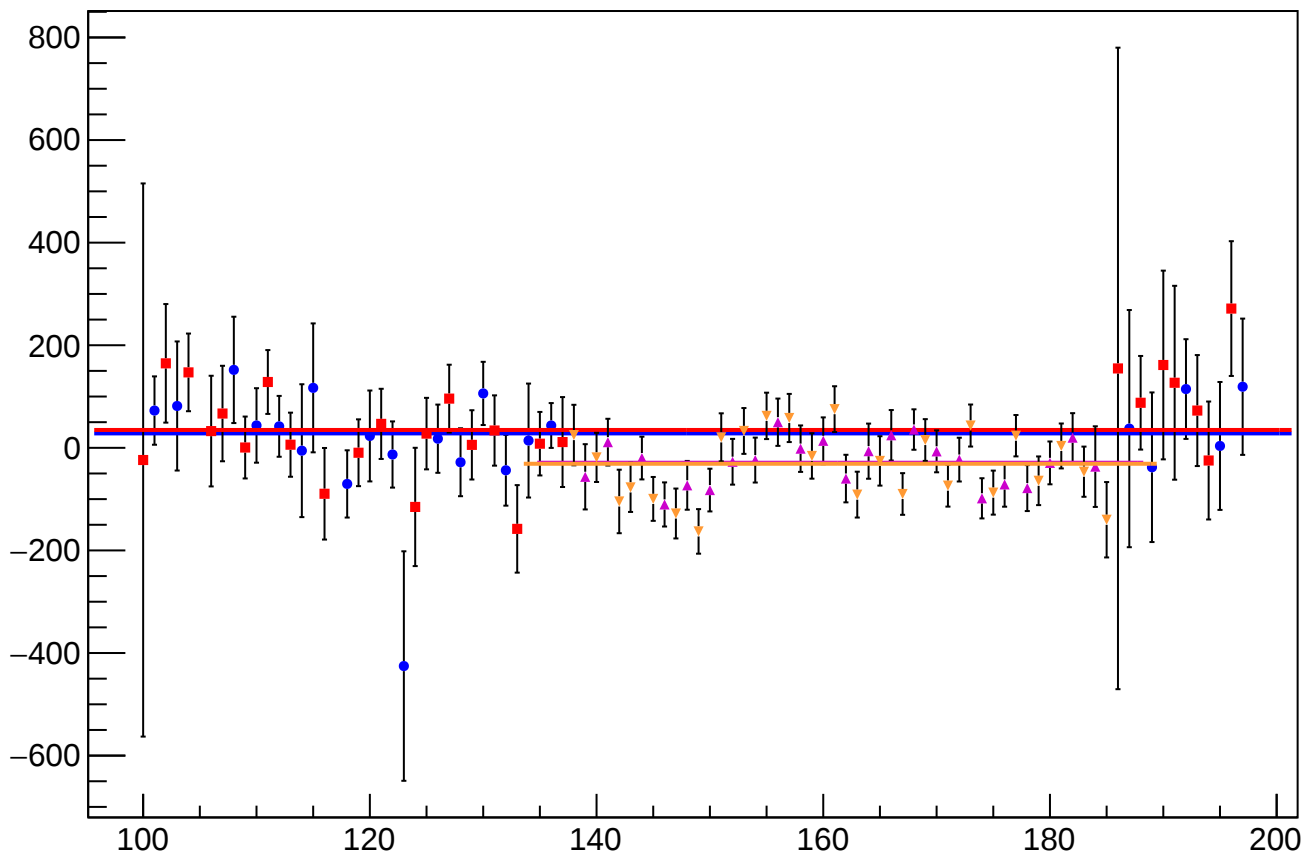
Right: 521.295+/-0.085 χ^2/NDF : 4029786.1/47

In: 371.053+/-0.052 χ^2/NDF : 3787739.5/44

Out: 375.798+/-0.051 χ^2/NDF : 4814186.9/50

All: 373.490+/-0.036 χ^2/NDF : 8606153.3/95

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 28.109 ± 17.091 $\chi^2/\text{NDF}: 14.6/21$

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 $\chi^2/\text{NDF}: 75.1/47$

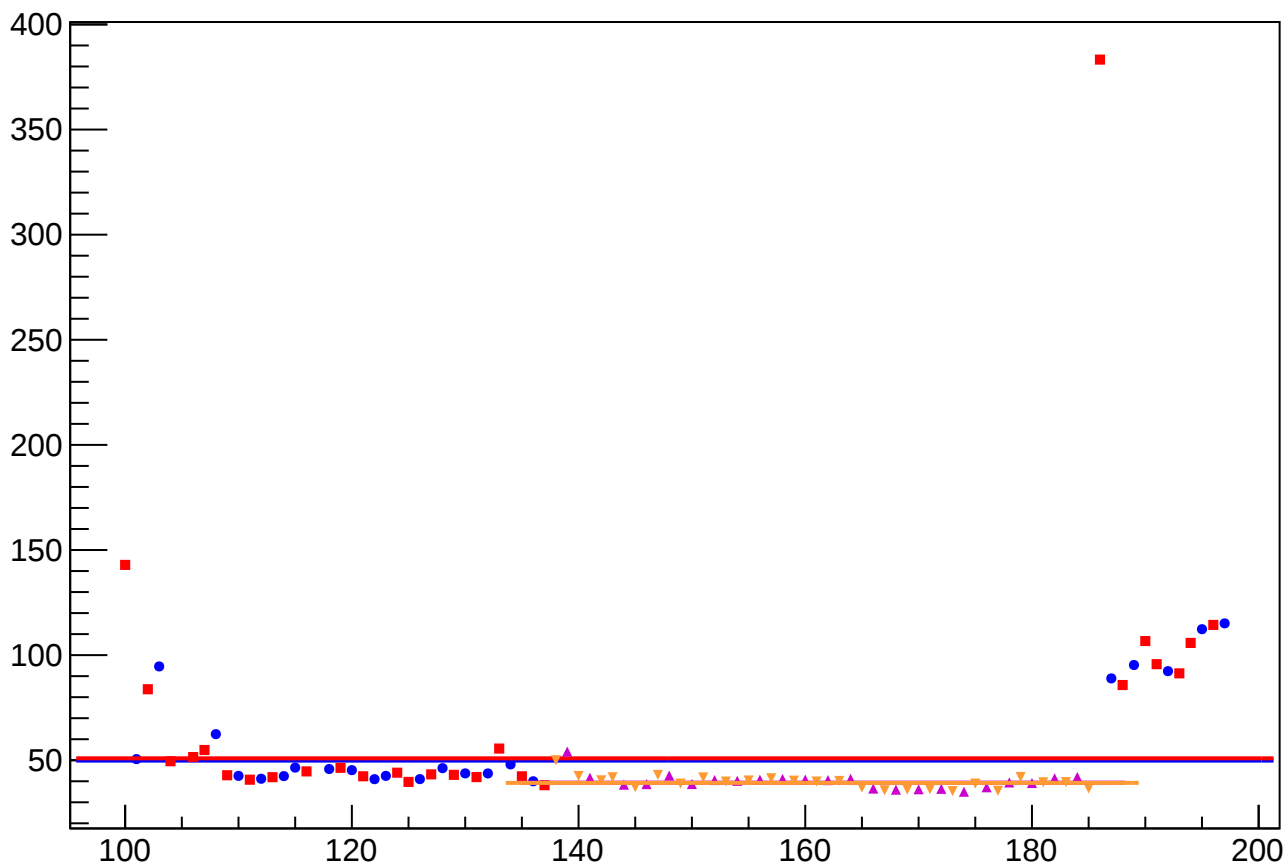
Right: 31.594 ± 11.858 $\chi^2/\text{NDF}: 36.3/47$

In: -15.672 ± 8.270 $\chi^2/\text{NDF}: 45.6/44$

Out: -15.465 ± 8.011 $\chi^2/\text{NDF}: 86.5/50$

All: -15.565 ± 5.754 $\chi^2/\text{NDF}: 132.1/95$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 49.831+/-0.012 χ^2/NDF : 2204350.1/21

Left Out: 39.235+/-0.006 χ^2/NDF : 201960.7/24

Right Out: 50.914+/-0.012 χ^2/NDF : 2993470.0/25

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

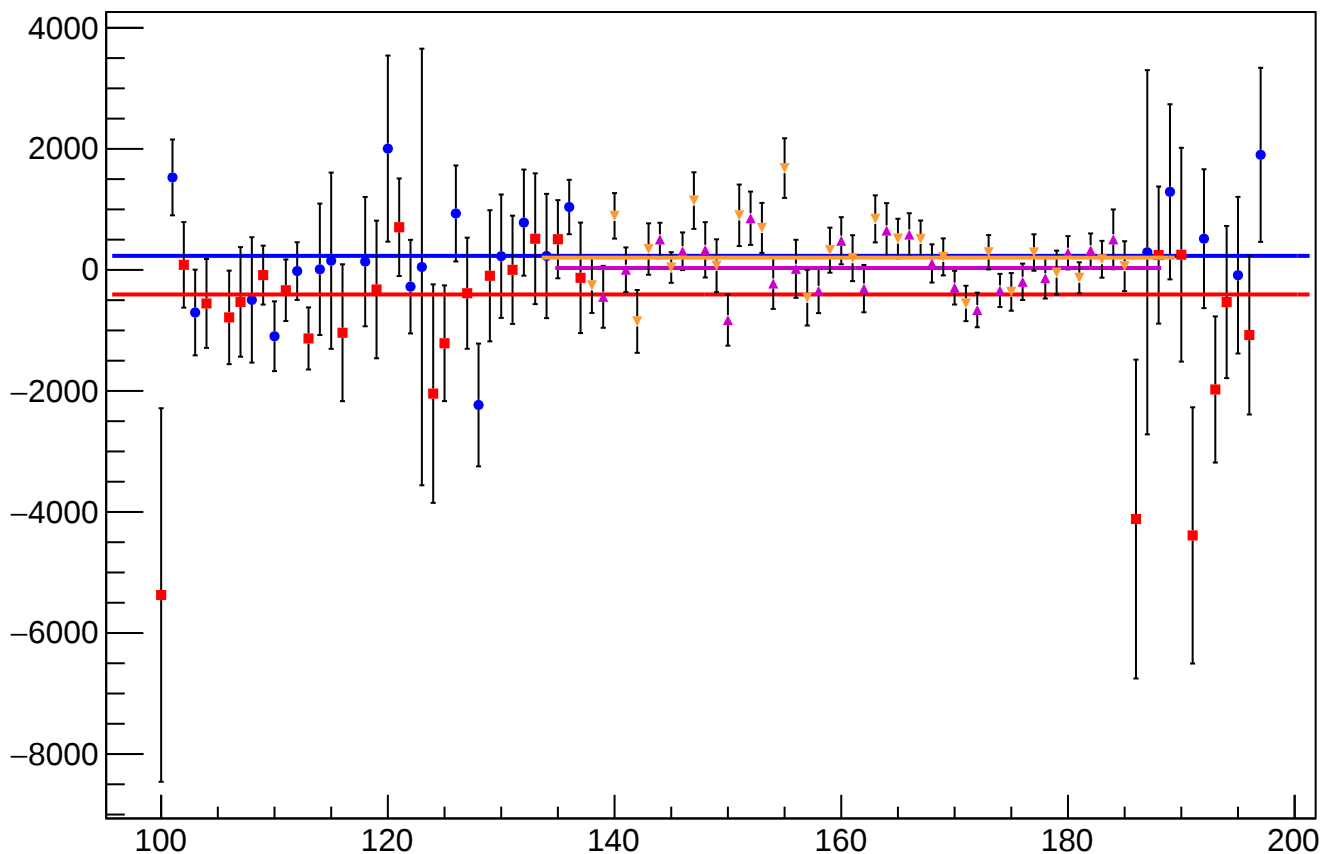
Right: 50.393+/-0.008 χ^2/NDF : 5201991.1/47

In: 41.795+/-0.006 χ^2/NDF : 2997323.8/44

Out: 42.000+/-0.006 χ^2/NDF : 3963491.7/50

All: 41.901+/-0.004 χ^2/NDF : 6961449.3/95

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 232.099 $\pm$ 181.340 χ^2 /NDF: 26.2/21

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

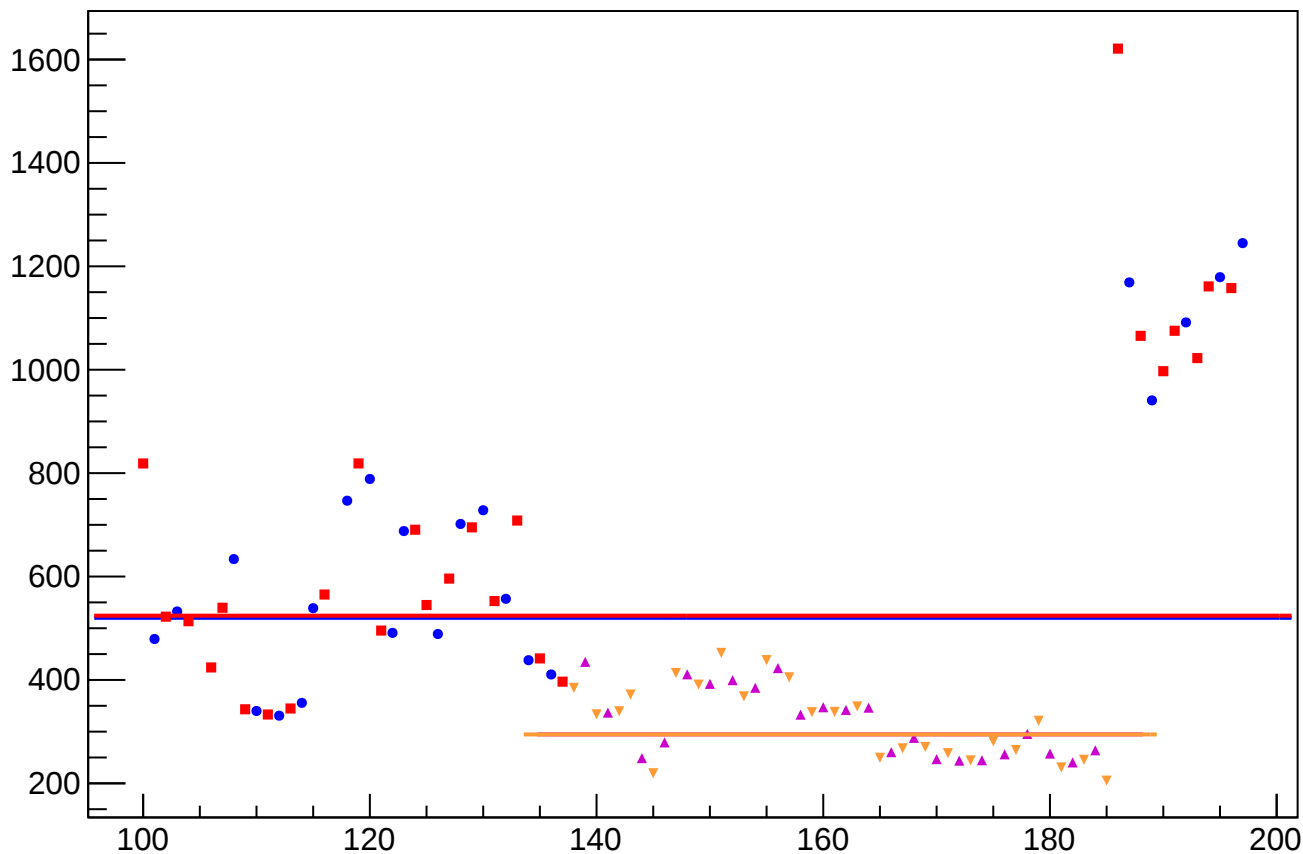
Right: -106.146 $\pm$ 124.278 χ^2 /NDF: 53.4/47

In: 58.924 $\pm$ 66.999 χ^2 /NDF:60.7/44

Out: 113.882 $\pm$ 65.100 χ^2 /NDF:76.3/50

All: 87.192 $\pm$ 46.690 χ^2 /NDF: 137.3/95

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 520.191+/-0.128 χ^2/NDF : 2817680.2/21

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 524.347+/-0.121 χ^2/NDF : 3609263.9/25

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

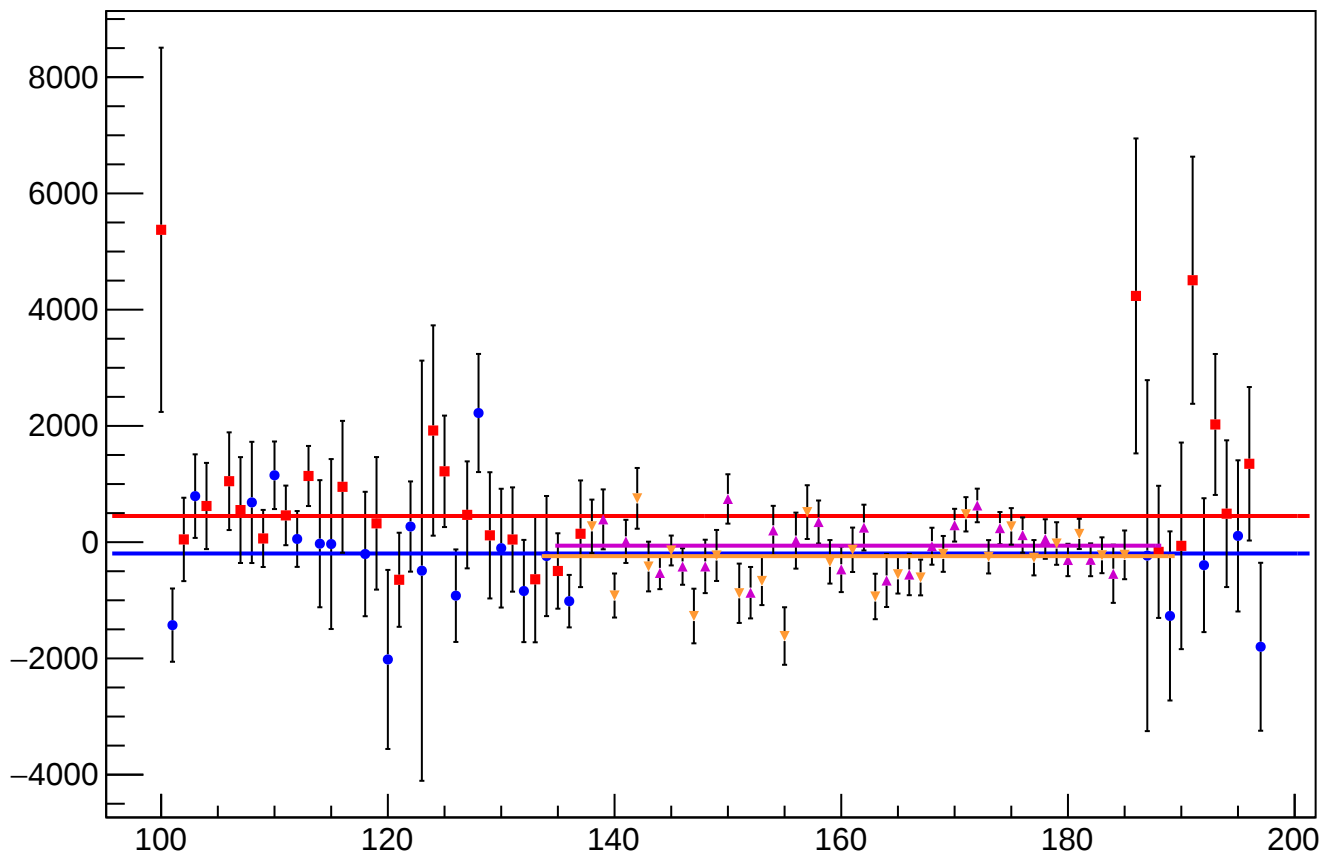
Right: 522.395+/-0.088 χ^2/NDF : 6427501.4/47

In: 325.499+/-0.047 χ^2/NDF : 6784778.8/44

Out: 328.025+/-0.046 χ^2/NDF : 8387286.5/50

All: 326.799+/-0.033 χ^2/NDF : 15173527.6/95

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -194.825 $\pm$ 182.439 χ^2 /NDF: 26.0/21

Left Out: -240.357 $\pm$ 71.100 χ^2 /NDF:42.9/24

Right Out: 450.338 $\pm$ 172.362 χ^2 /NDF: 20.8/25

Left In: -60.330 $\pm$ 72.788 χ^2 /NDF:30.9/22

Left: -152.455 $\pm$ 50.862 χ^2 /NDF: 77.0/47

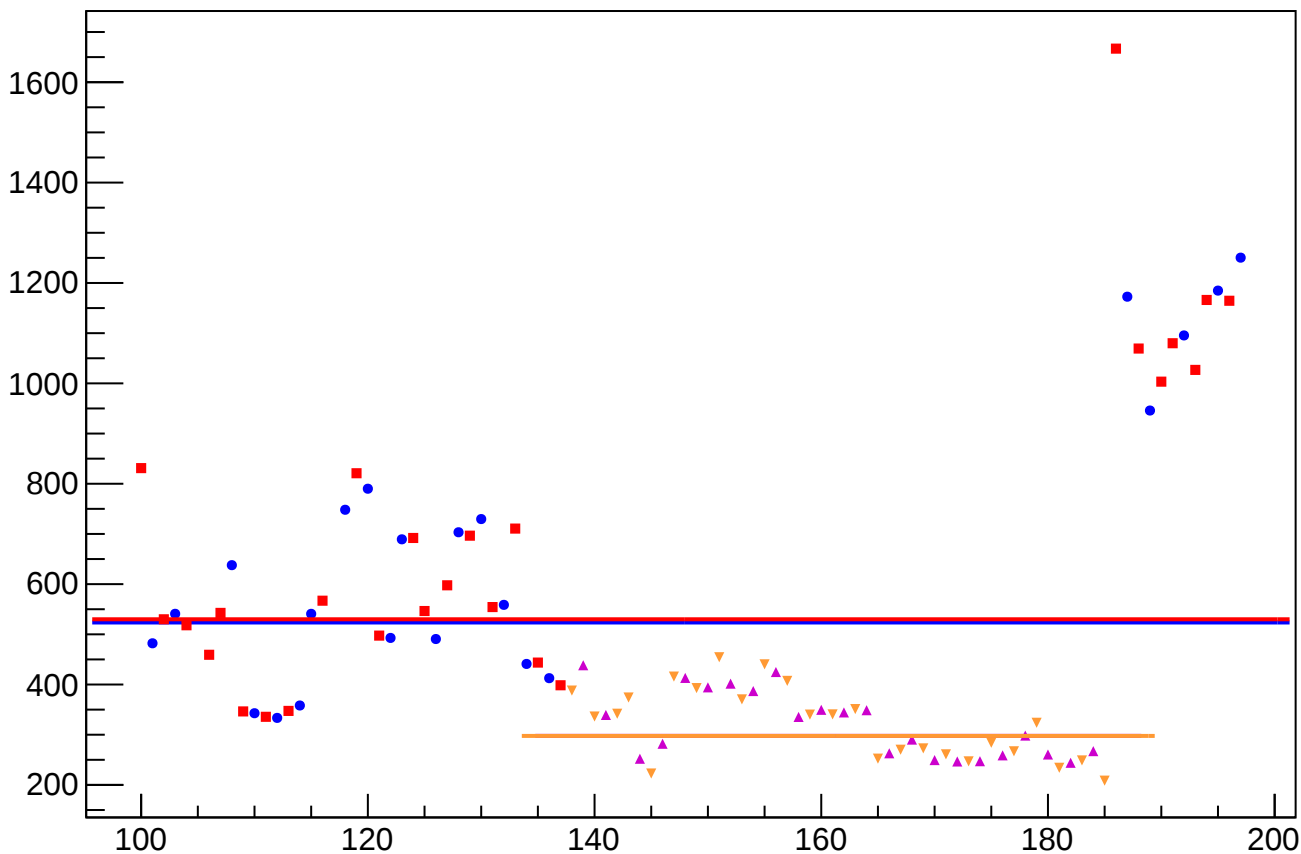
Right: 146.064 $\pm$ 125.290 χ^2 /NDF: 53.4/47

In: -78.799 $\pm$ 67.606 χ^2 /NDF:57.4/44

Out: -139.918 $\pm$ 65.728 χ^2 /NDF:77.4/50

All: -110.219 $\pm$ 47.127 χ^2 /NDF: 135.3/95

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 523.595 $\pm$ 0.129 χ^2 /NDF: 2802789.4/21

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

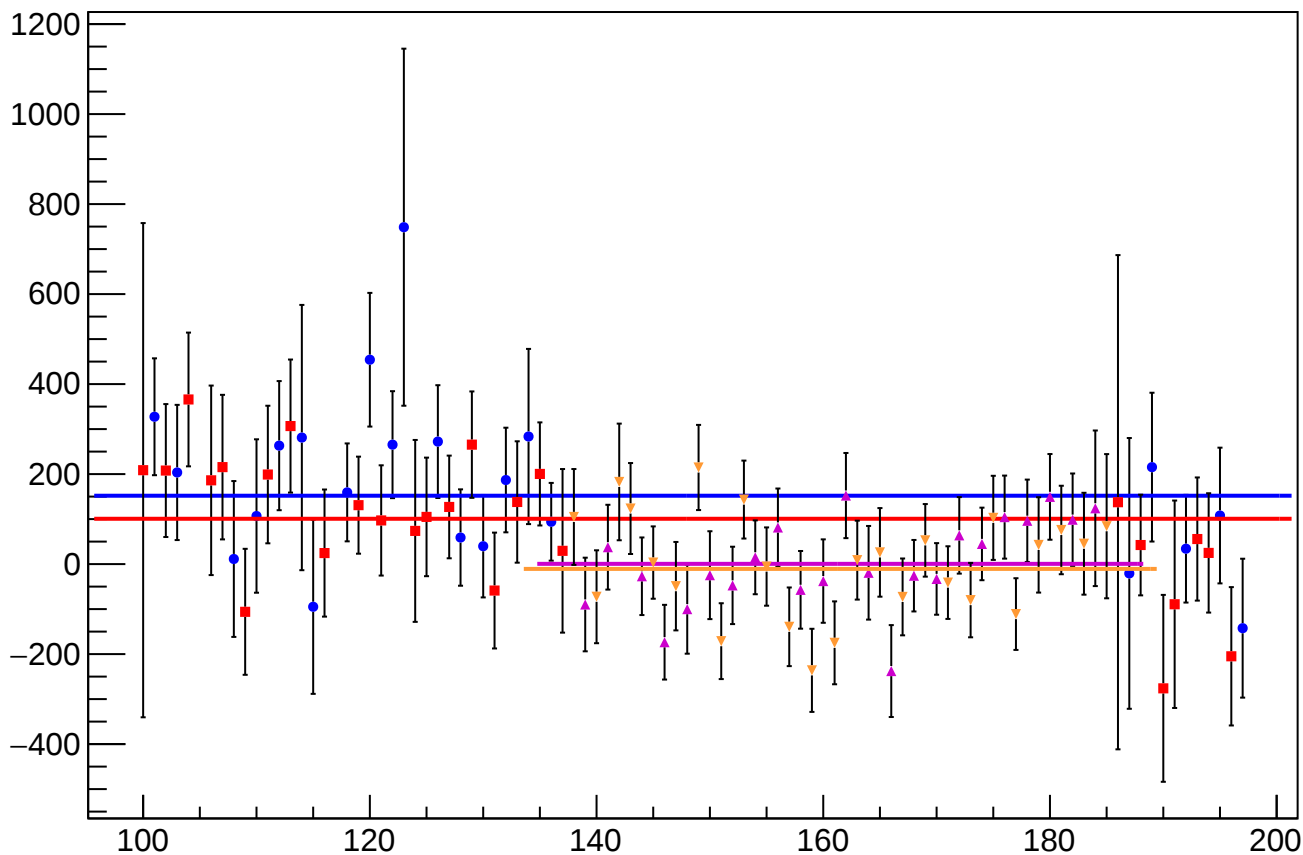
Right: 526.971 $\pm$ 0.089 χ^2 /NDF: 6381200.7/47

In: 328.719 $\pm$ 0.048 χ^2 /NDF: 6714310.8/44

Out: 331.403 $\pm$ 0.046 χ^2 /NDF: 8321321.3/50

All: 330.099 $\pm$ 0.033 χ^2 /NDF: 15037252.8/99

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 151.946 $\pm$ 29.734 χ^2 /NDF: 21.2/21

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

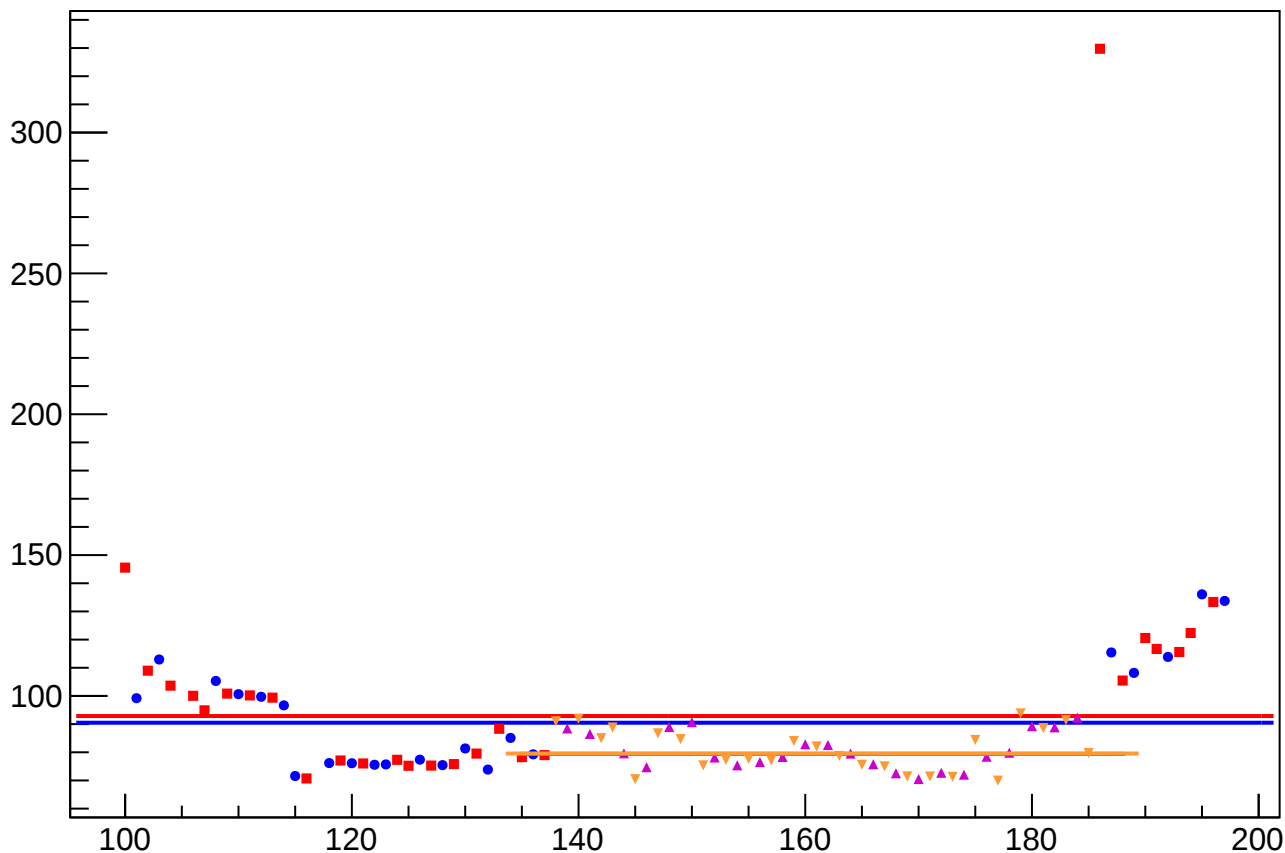
Right: 125.283 $\pm$ 20.588 χ^2 /NDF: 45.3/47

In: 44.762 $\pm$ 16.065 χ^2 /NDF:63.3/44

Out: 22.576 $\pm$ 15.588 χ^2 /NDF:69.5/50

All: 33.335 $\pm$ 11.187 χ^2 /NDF: 133.9/95

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.492 $\pm$ 0.021 χ^2 /NDF: 794296.0/21

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 92.866 $\pm$ 0.020 χ^2 /NDF: 1152041.3/25

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF:212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

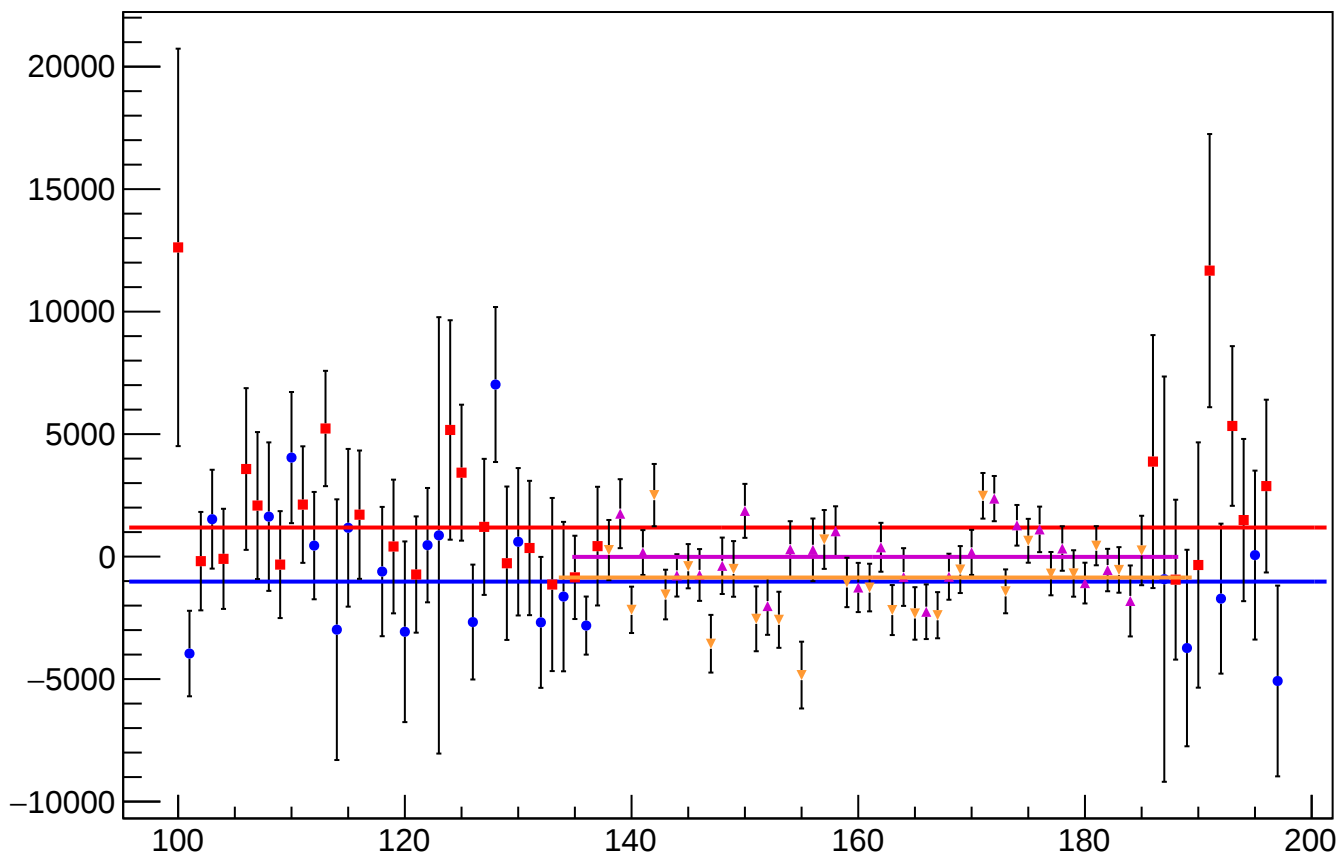
Right: 91.728 $\pm$ 0.015 χ^2 /NDF: 1952975.3/47

In: 82.664 $\pm$ 0.011 χ^2 /NDF:1202517.1/44

Out: 83.525 $\pm$ 0.011 χ^2 /NDF:1766663.2/50

All: 83.107 $\pm$ 0.008 χ^2 /NDF: 2972138.5/95

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1020.553 $\pm$ 553.799 χ^2 /NDF: 22.3/21

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1186.985 $\pm$ 547.160 χ^2 /NDF: 17.7/25

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

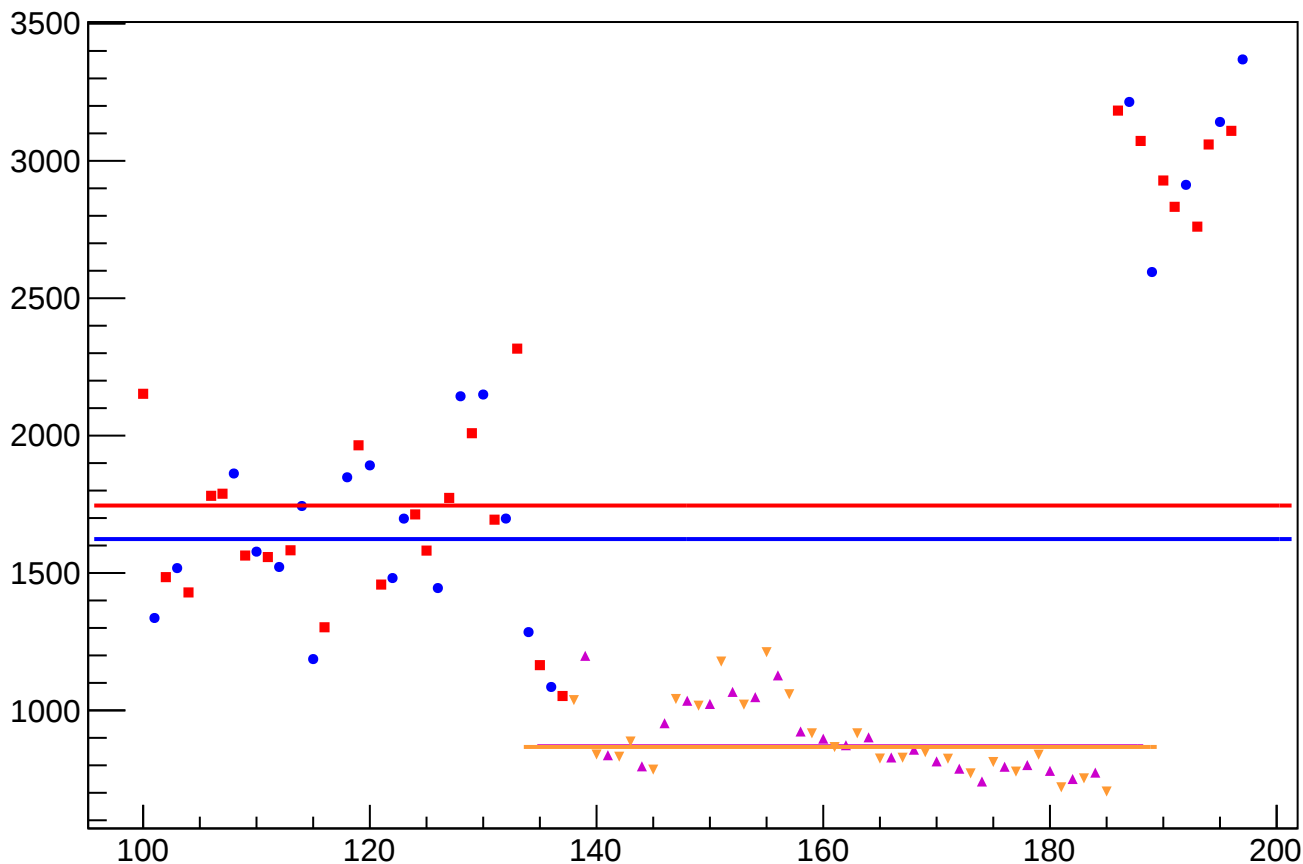
Right: 96.528 $\pm$ 389.227 χ^2 /NDF: 48.0/47

In: -138.594 $\pm$ 196.416 χ^2 /NDF:56.4/44

Out: -604.837 $\pm$ 191.221 χ^2 /NDF:85.9/50

All: -377.963 $\pm$ 137.014 χ^2 /NDF: 145.2/95

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1623.477+/-0.392 χ^2/NDF : 2048429.6/21

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1745.542+/-0.387 χ^2/NDF : 2175625.5/25

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

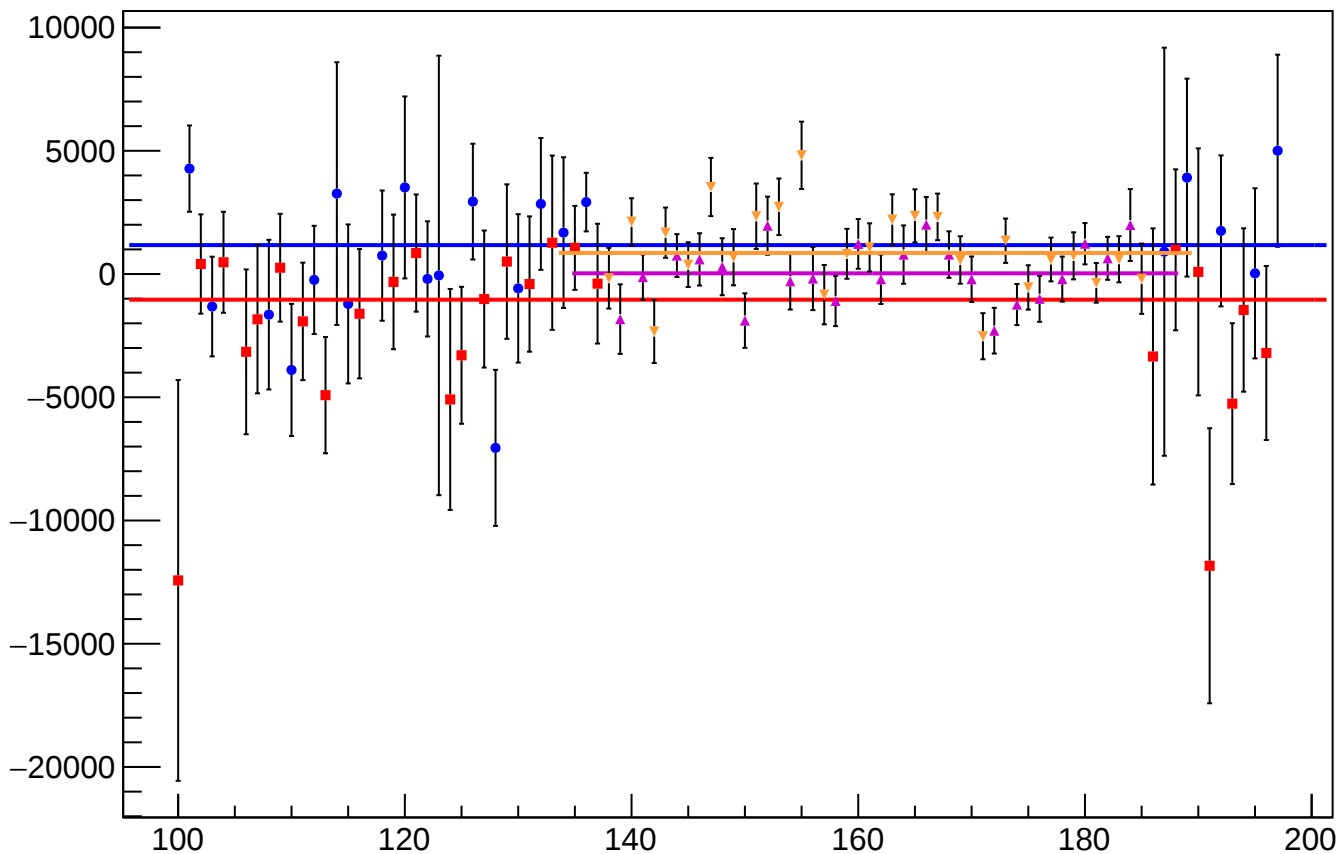
Right: 1685.245+/-0.275 χ^2/NDF : 4273223.2/47

In: 964.404+/-0.139 χ^2/NDF : 5870972.3/44

Out: 974.208+/-0.135 χ^2/NDF : 7364847.4/50

All: 969.437+/-0.097 χ^2/NDF : 13238377.7/95

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1174.051 $\pm$ 554.880 χ^2 /NDF: 22.8/21

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

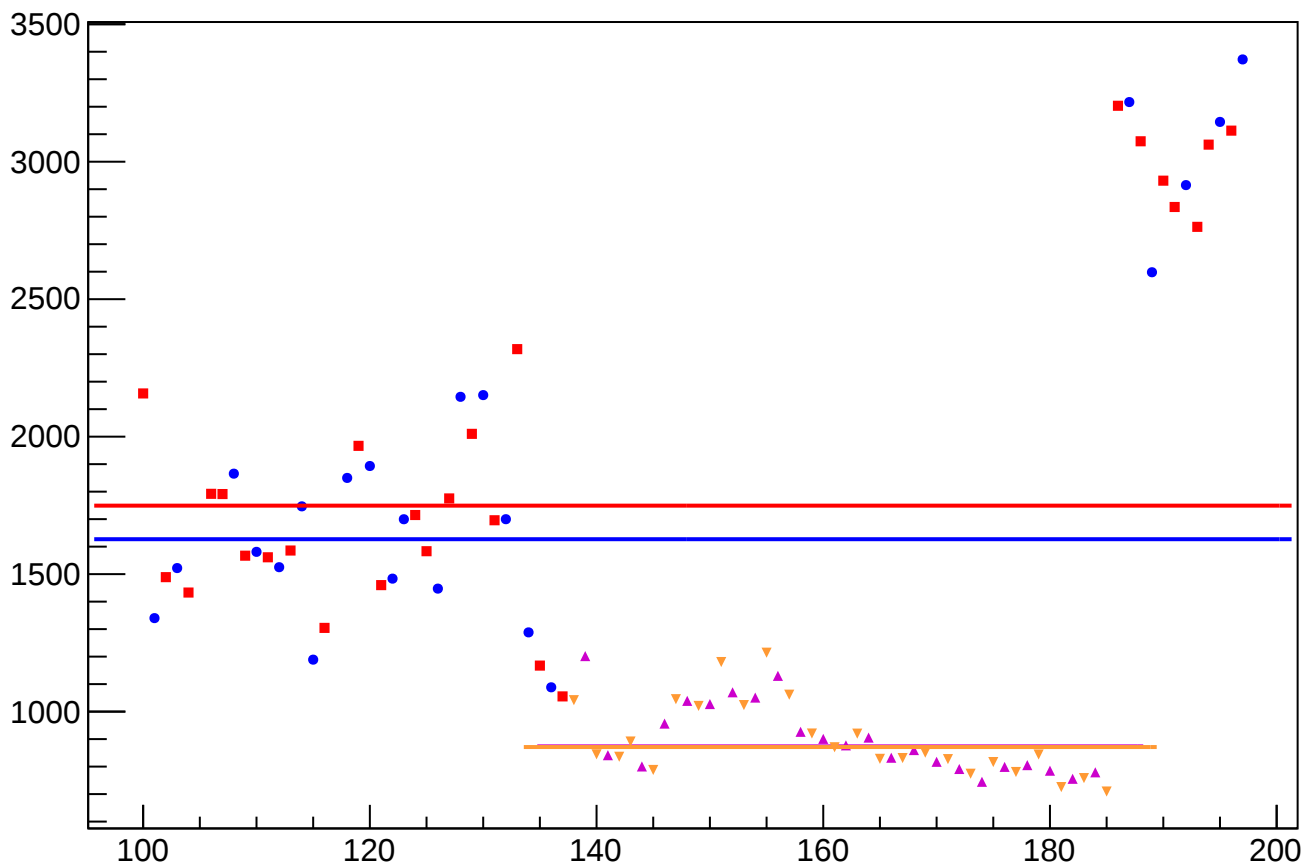
Right: 53.893 $\pm$ 390.018 χ^2 /NDF: 48.5/47

In: 173.307 $\pm$ 197.250 χ^2 /NDF: 56.3/44

Out: 623.100 $\pm$ 192.057 χ^2 /NDF: 82.2/50

All: 404.202 $\pm$ 137.604 χ^2 /NDF: 141.1/95

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1627.028 $\pm$ 0.392 χ^2 /NDF: 2040978.9/21

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1749.098 $\pm$ 0.388 χ^2 /NDF: 2171005.3/25

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

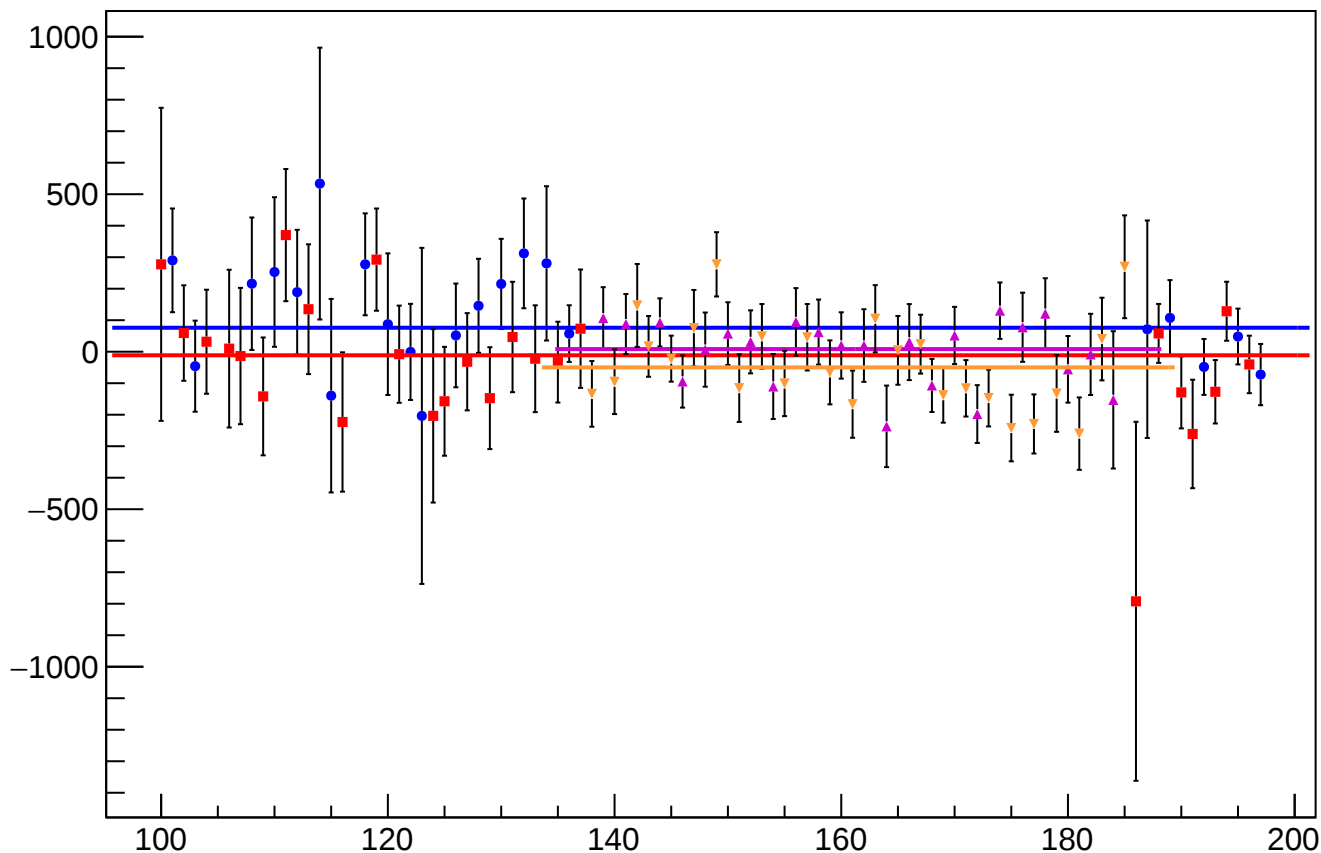
Right: 1688.789 $\pm$ 0.276 χ^2 /NDF: 4260957.3/47

In: 968.874 $\pm$ 0.139 χ^2 /NDF: 5835559.9/44

Out: 978.827 $\pm$ 0.136 χ^2 /NDF: 7321608.0/50

All: 973.983 $\pm$ 0.097 χ^2 /NDF: 13159781.8/95

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 76.099 $\pm$ 31.416 χ^2 /NDF: 15.7/21

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

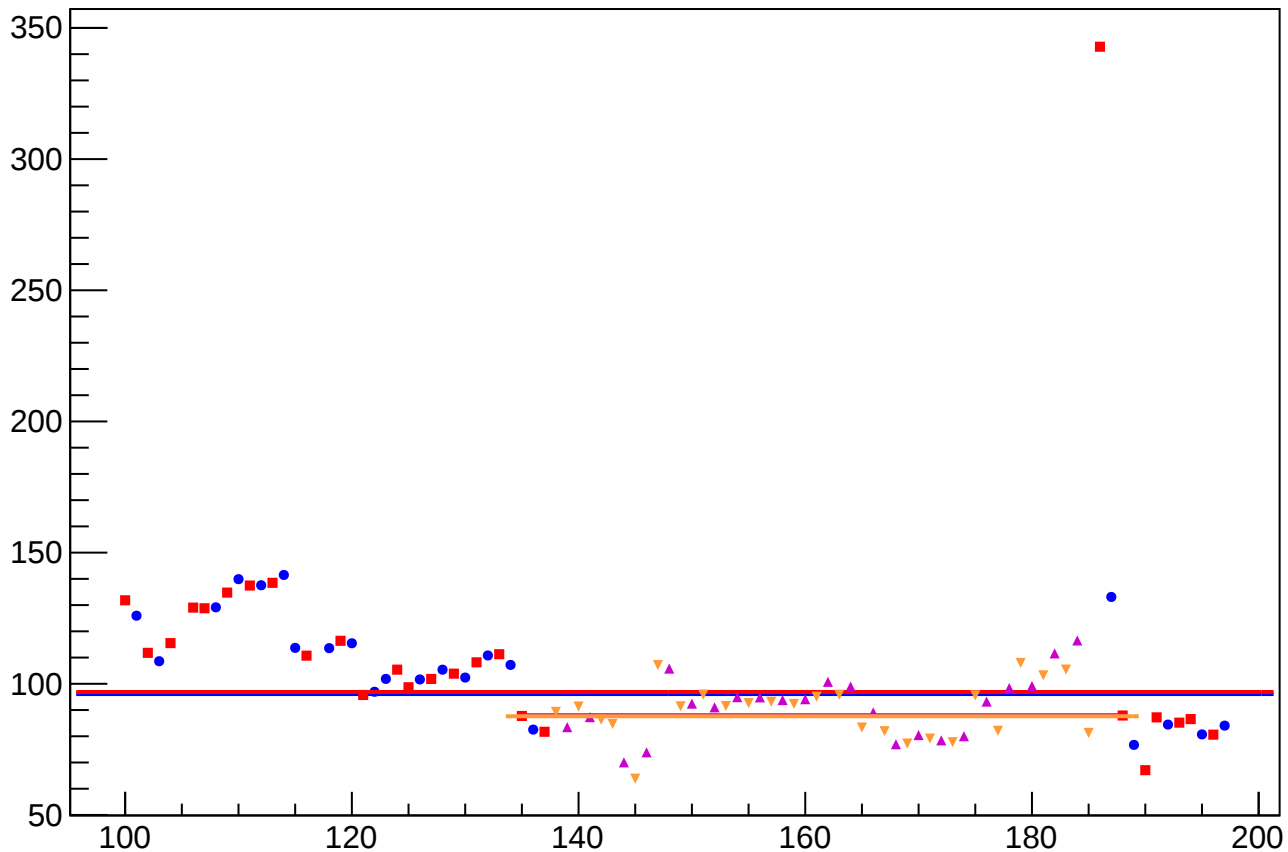
Right: 29.803 $\pm$ 21.546 χ^2 /NDF: 40.6/47

In: 29.641 $\pm$ 17.614 χ^2 /NDF:40.8/44

Out: -37.204 $\pm$ 16.898 χ^2 /NDF:61.4/50

All: -5.166 $\pm$ 12.194 χ^2 /NDF: 109.8/95

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 96.094 $\pm$ 0.022 χ^2 /NDF: 631689.0/21

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

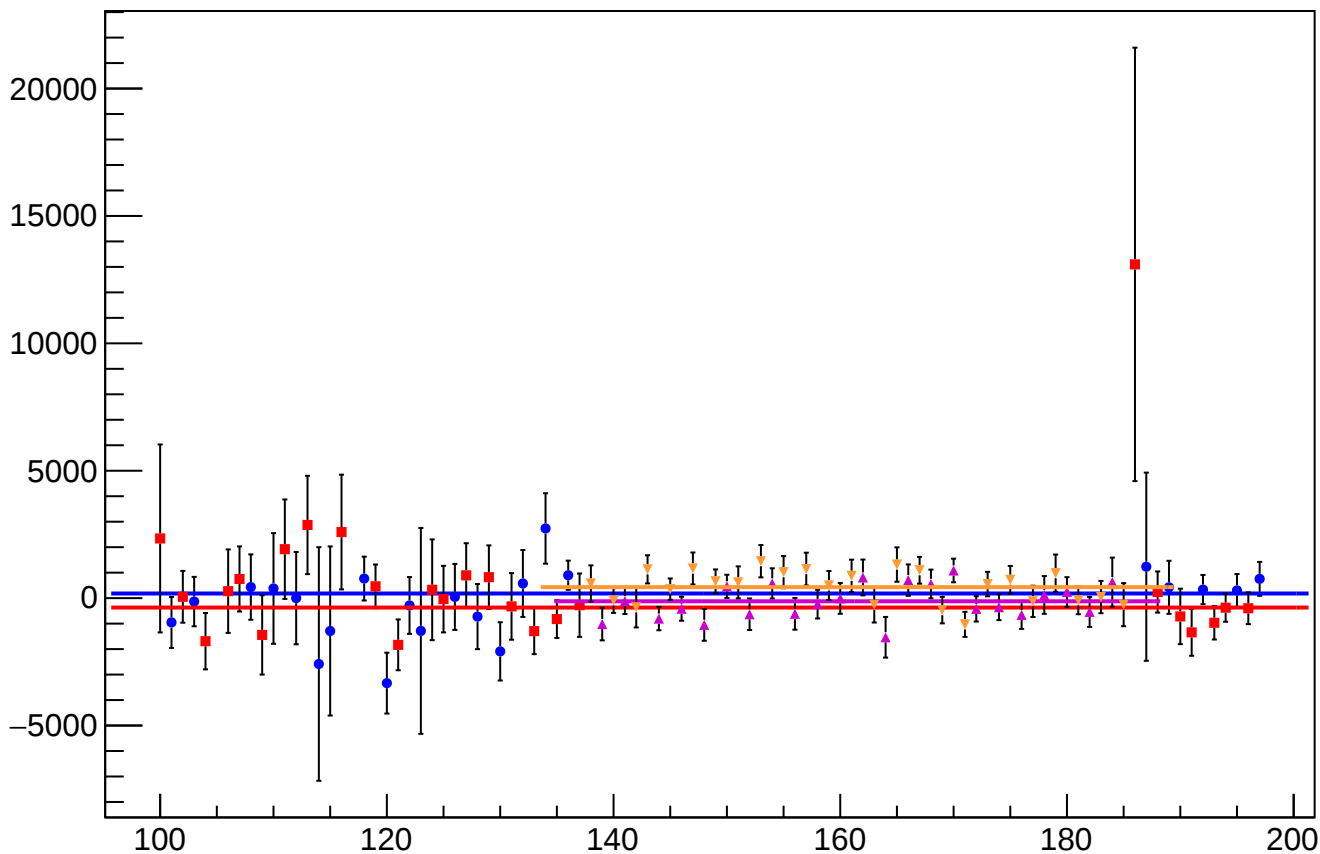
Right: 96.510 $\pm$ 0.015 χ^2 /NDF: 1741248.7/47

In: 90.566 $\pm$ 0.012 χ^2 /NDF:1245695.5/44

Out: 90.641 $\pm$ 0.012 χ^2 /NDF:1795368.1/50

All: 90.605 $\pm$ 0.009 χ^2 /NDF: 3041082.3/95

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 181.886 ± 217.801 $\chi^2/\text{NDF}: 22.0/21$

Left Out: 431.658 ± 115.706 $\chi^2/\text{NDF}: 30.5/24$

Right Out: -369.431 ± 202.060 $\chi^2/\text{NDF}: 21.2/25$

Left In: -123.017 ± 118.849 $\chi^2/\text{NDF}: 29.3/22$

Left: 161.753 ± 82.905 $\chi^2/\text{NDF}: 70.9/47$

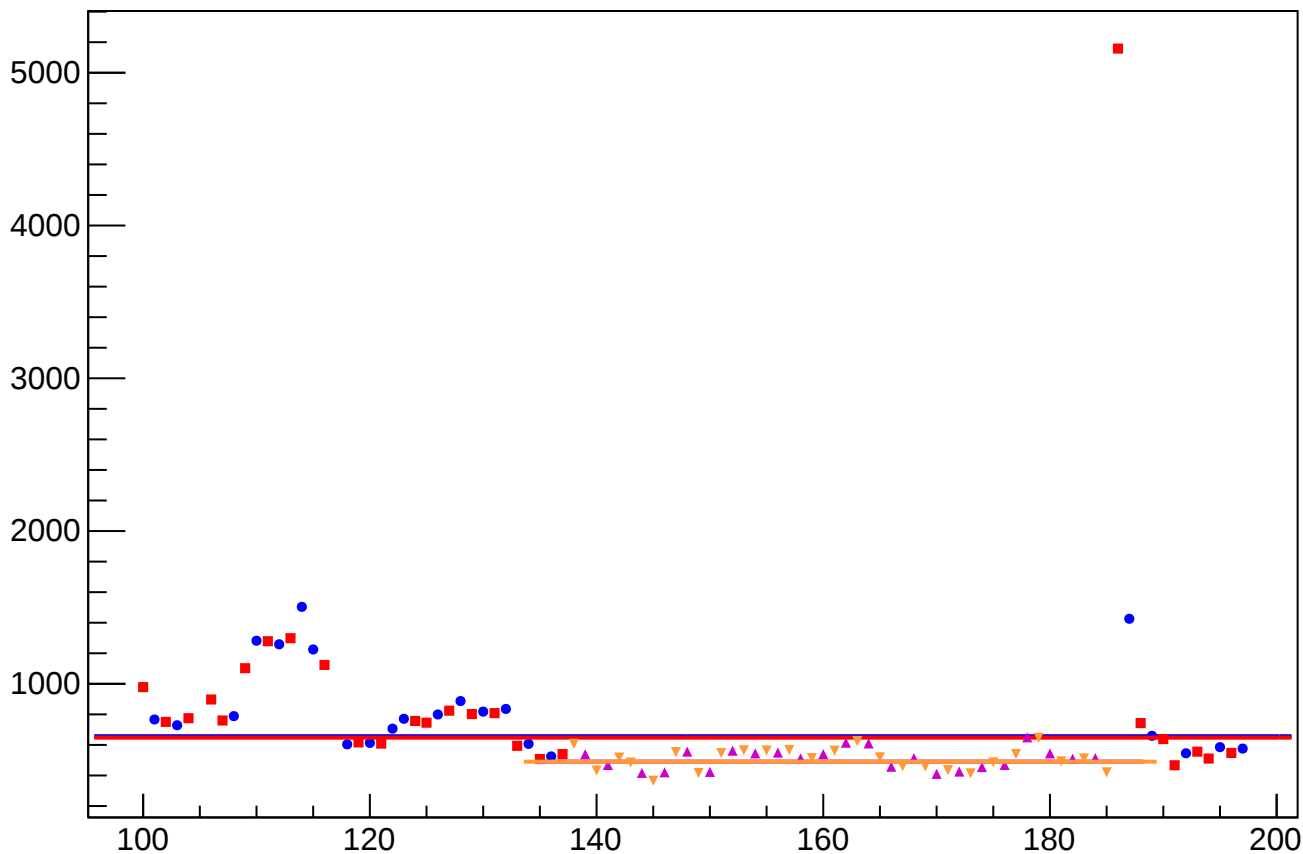
Right: -114.414 ± 148.130 $\chi^2/\text{NDF}: 46.6/47$

In: -53.059 ± 104.327 $\chi^2/\text{NDF}: 52.7/44$

Out: 233.841 ± 100.409 $\chi^2/\text{NDF}: 63.5/50$

All: 95.881 ± 72.345 $\chi^2/\text{NDF}: 120.2/95$

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 657.280 $\pm$ 0.154 χ^2 /NDF: 1076602.5/21

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

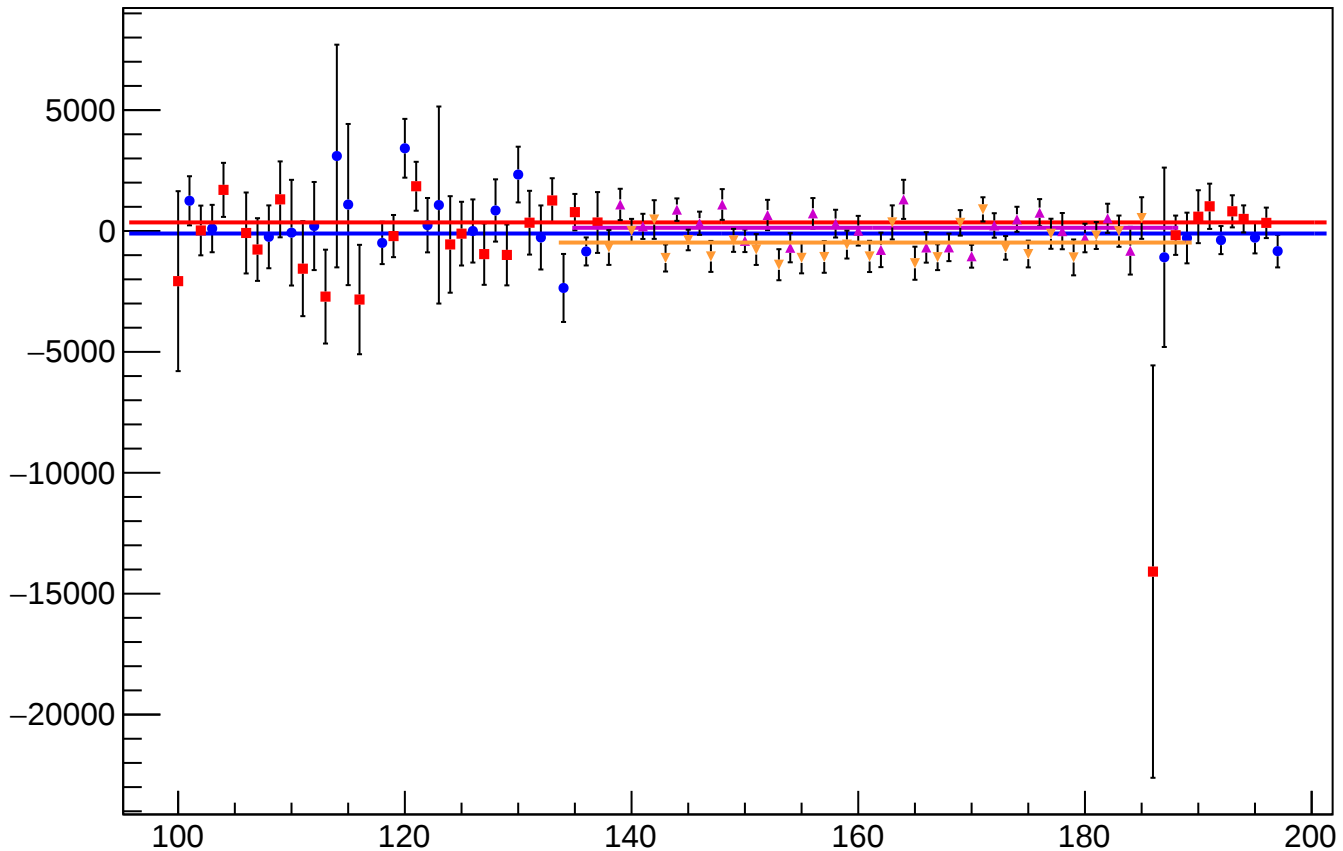
Right: 652.063 $\pm$ 0.105 χ^2 /NDF: 2997818.2/47

In: 529.082 $\pm$ 0.074 χ^2 /NDF: 2565055.2/44

Out: 529.111 $\pm$ 0.071 χ^2 /NDF: 3582192.3/50

All: 529.097 $\pm$ 0.051 χ^2 /NDF: 6147247.7/95

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -104.464 ± 220.327 χ^2/NDF : 22.1/21

Left Out: -478.197 ± 117.659 χ^2/NDF : 27.8/24

Right Out: 354.873 ± 204.604 χ^2/NDF : 19.4/25

Left In: 132.543 ± 120.866 χ^2/NDF : 29.5/22

Left: -181.037 ± 84.308 χ^2/NDF : 70.5/47

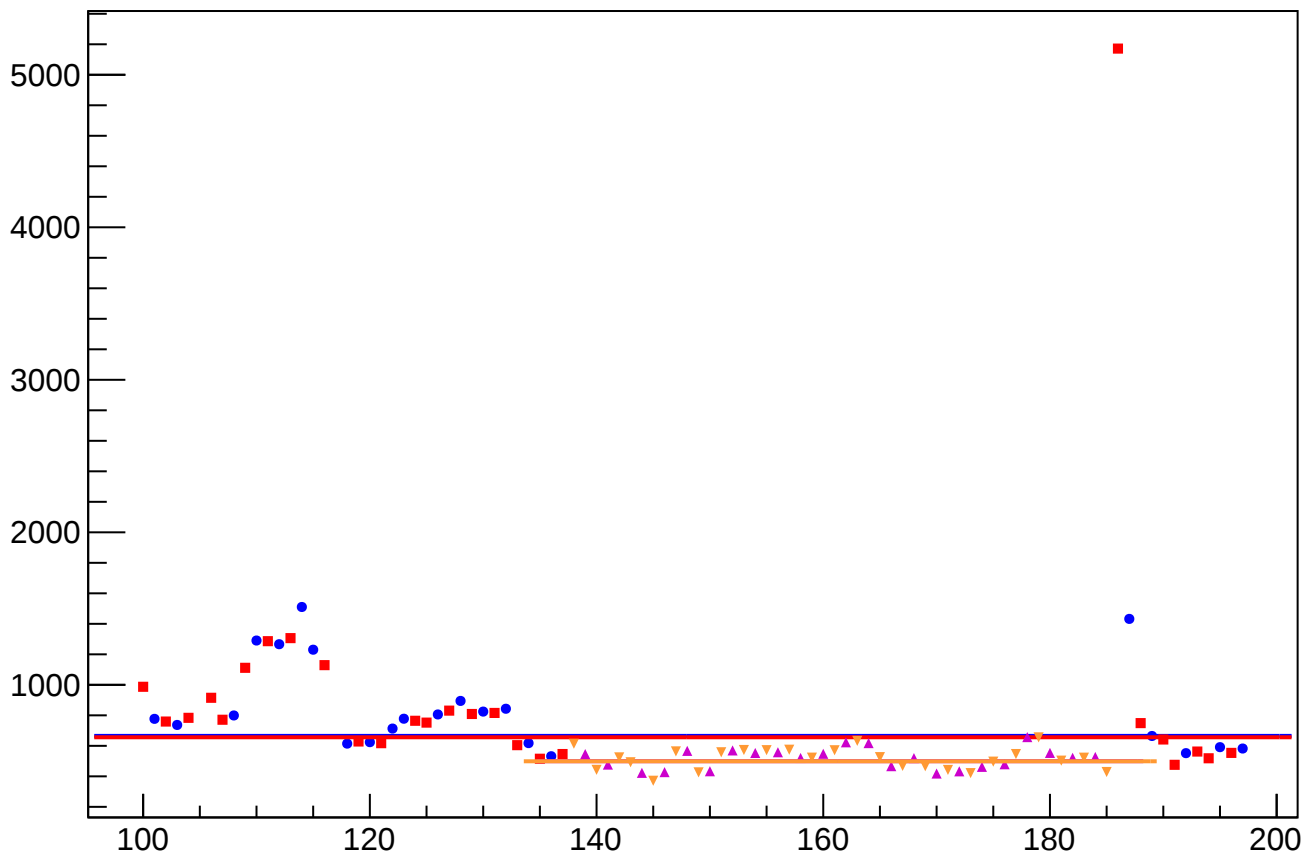
Right: 142.178 ± 149.927 χ^2/NDF : 43.8/47

In: 77.718 ± 105.968 χ^2/NDF : 52.5/44

Out: -271.170 ± 101.997 χ^2/NDF : 59.7/50

All: -103.386 ± 73.487 χ^2/NDF : 117.8/95

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 665.206 $\pm$ 0.156 χ^2/NDF : 1063346.7/21

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

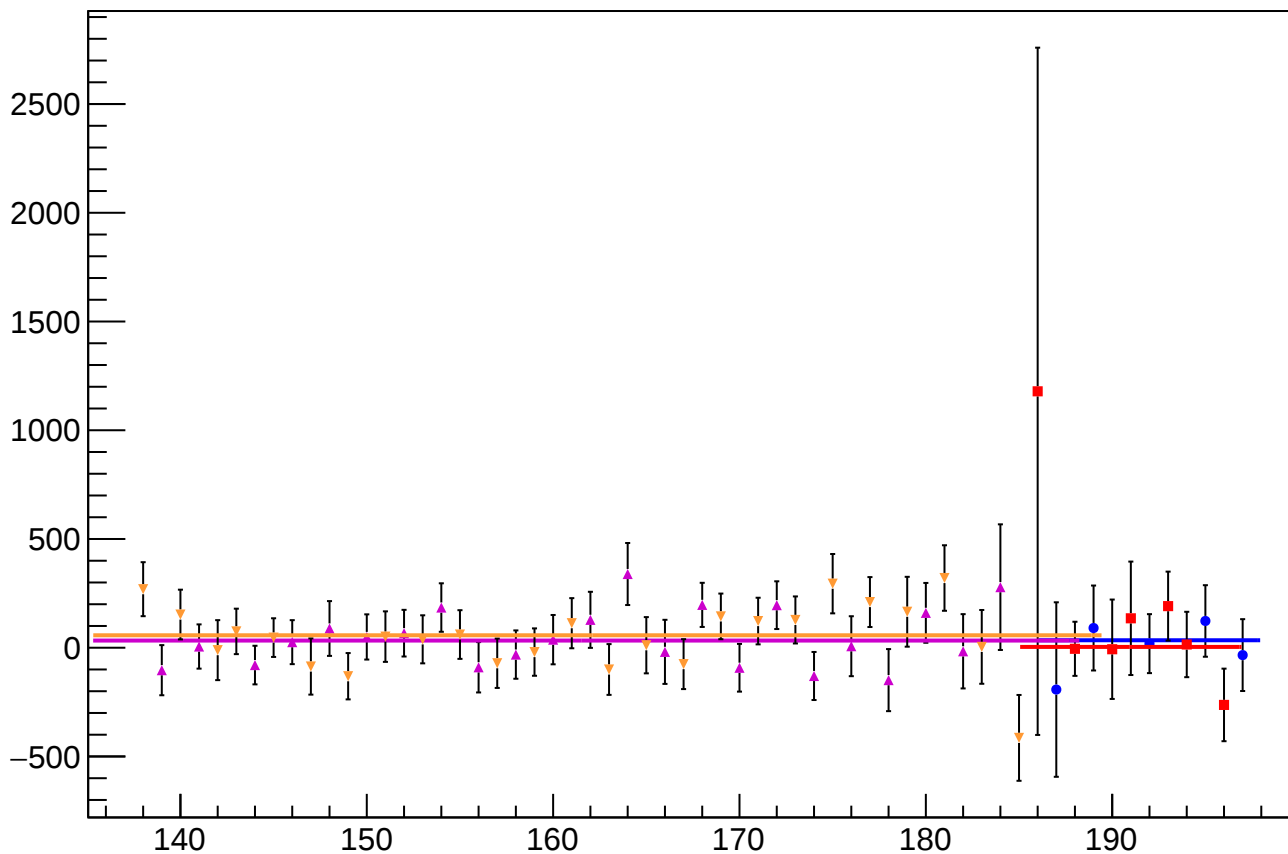
Right: 660.339 $\pm$ 0.106 χ^2/NDF : 2961003.9/47

In: 537.749 $\pm$ 0.075 χ^2/NDF : 2510600.0/44

Out: 537.867 $\pm$ 0.072 χ^2/NDF : 3519475.7/50

All: 537.810 $\pm$ 0.052 χ^2/NDF : 6030076.9/95

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 34.345+/-78.946 χ^2/NDF : 0.9/4

Left Out: 57.211+/-23.714 χ^2/NDF : 29.2/24

Right Out: 3.724+/-67.609 χ^2/NDF : 4.8/6

Left In: 32.948+/-24.587 χ^2/NDF : 23.6/22

Left: 45.518+/-17.069 χ^2/NDF : 53.3/47

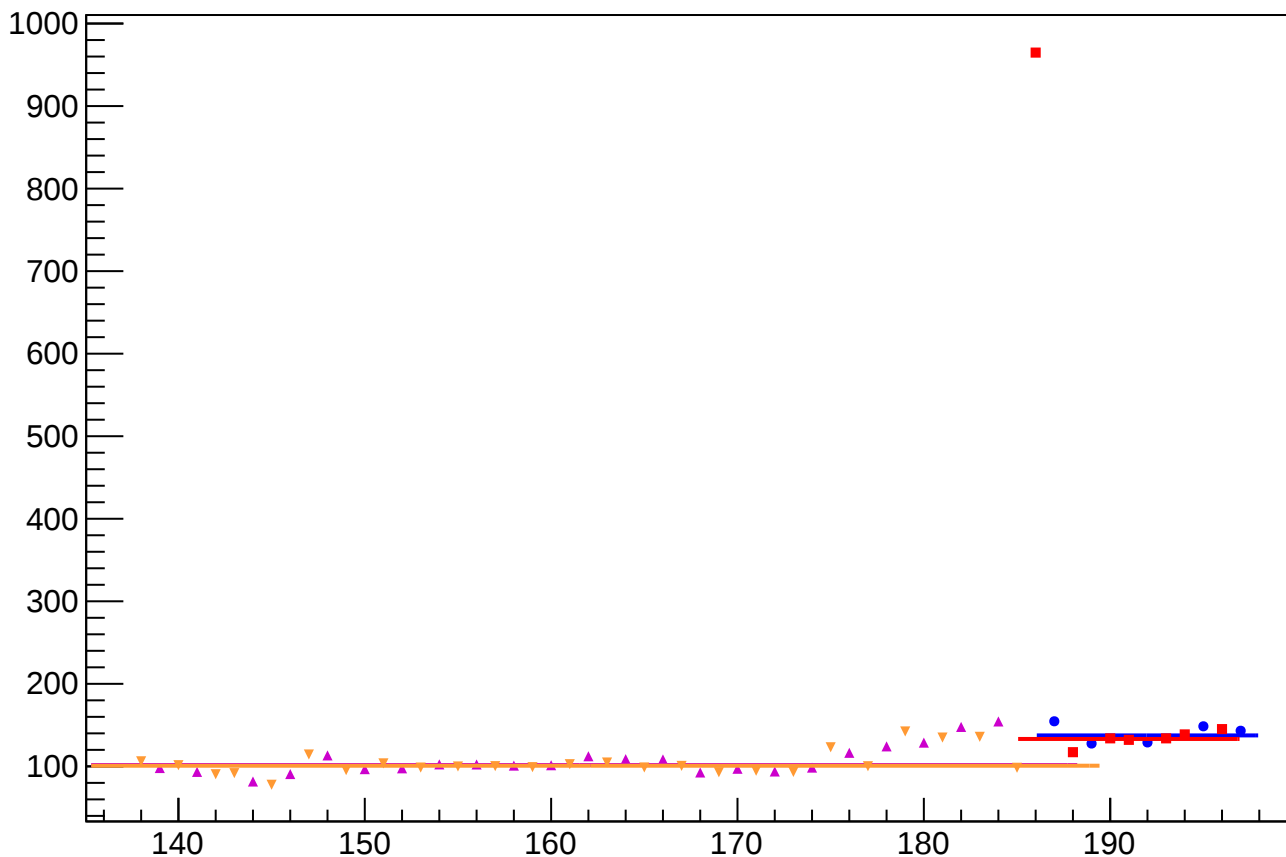
Right: 16.680+/-51.351 χ^2/NDF : 5.7/11

In: 33.072+/-23.475 χ^2/NDF : 24.5/27

Out: 51.351+/-22.377 χ^2/NDF : 34.5/31

All: 42.649+/-16.197 χ^2/NDF : 59.3/59

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 137.512 $\pm$ 0.056 χ^2 /NDF: 27956.7/4

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

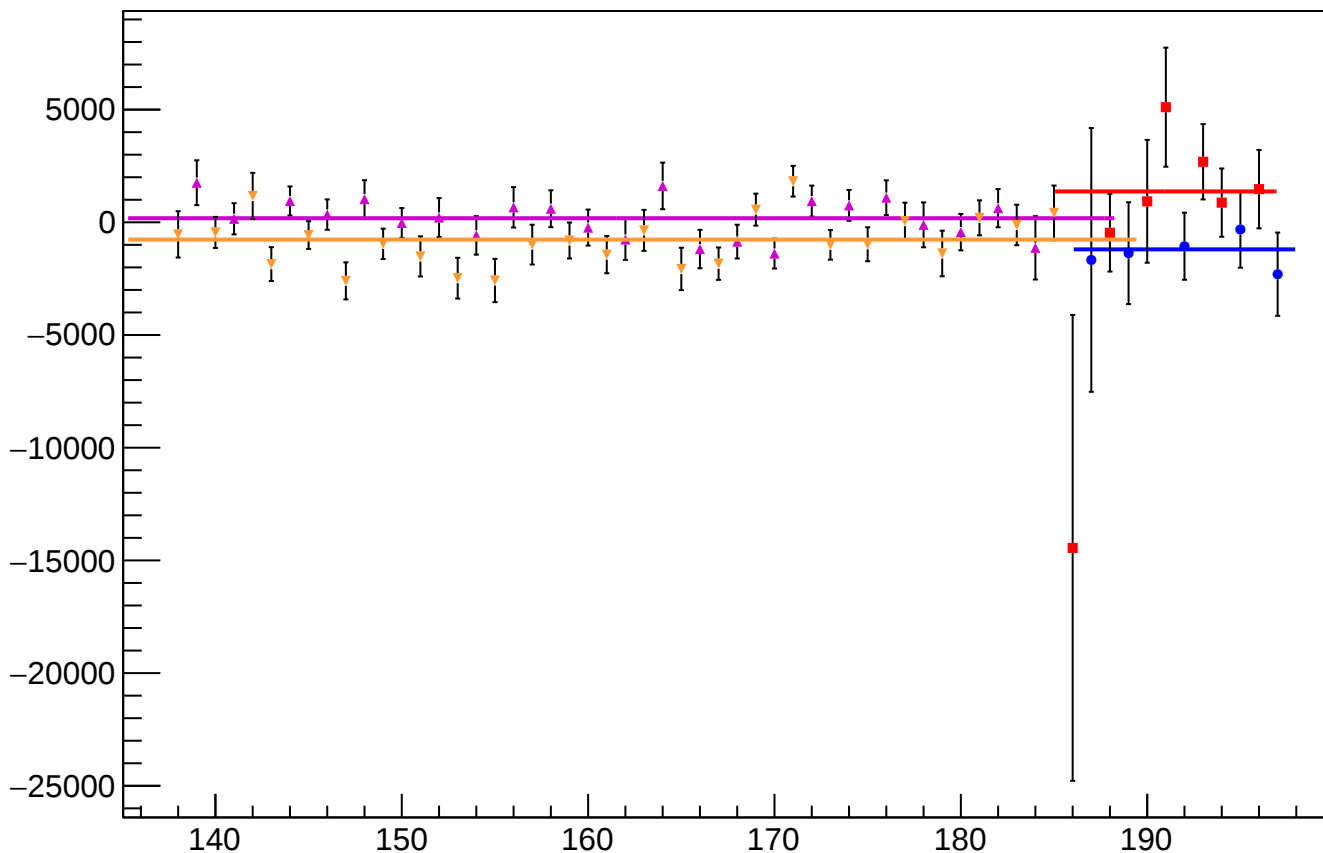
Right: 135.030 $\pm$ 0.036 χ^2 /NDF: 631480.6/11

In: 104.795 $\pm$ 0.017 χ^2 /NDF: 987080.1/27

Out: 104.351 $\pm$ 0.016 χ^2 /NDF: 1609835.4/31

All: 104.562 $\pm$ 0.011 χ^2 /NDF: 2597290.8/59

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1200.330 $\pm$ 871.531 χ^2 /NDF: 0.6/4

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1369.678 $\pm$ 756.153 χ^2 /NDF: 6.2/6

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

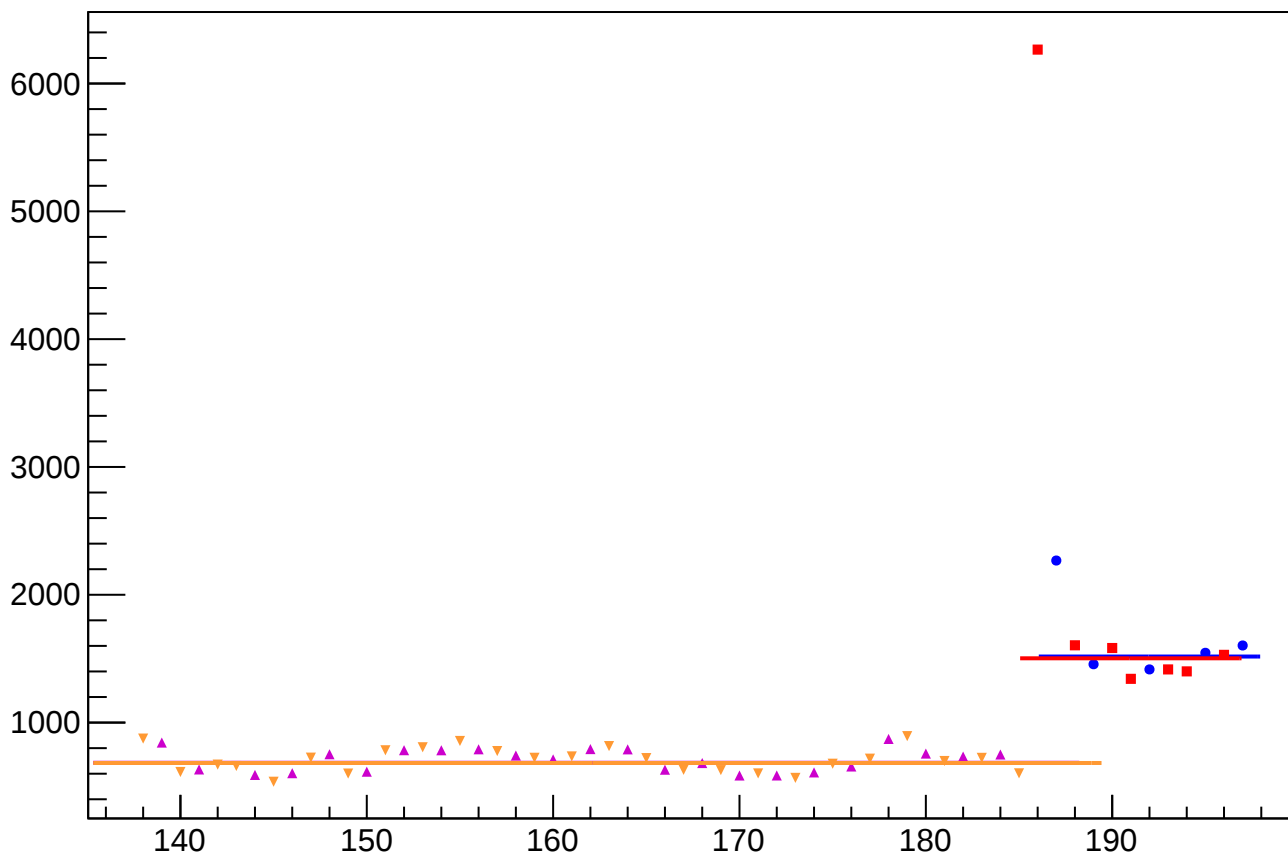
Right: 265.937 $\pm$ 571.149 χ^2 /NDF: 11.8/11

In: 133.390 $\pm$ 162.756 χ^2 /NDF:28.1/27

Out: -673.648 $\pm$ 157.532 χ^2 /NDF:60.4/31

All: -283.289 $\pm$ 113.194 χ^2 /NDF: 101.2/59

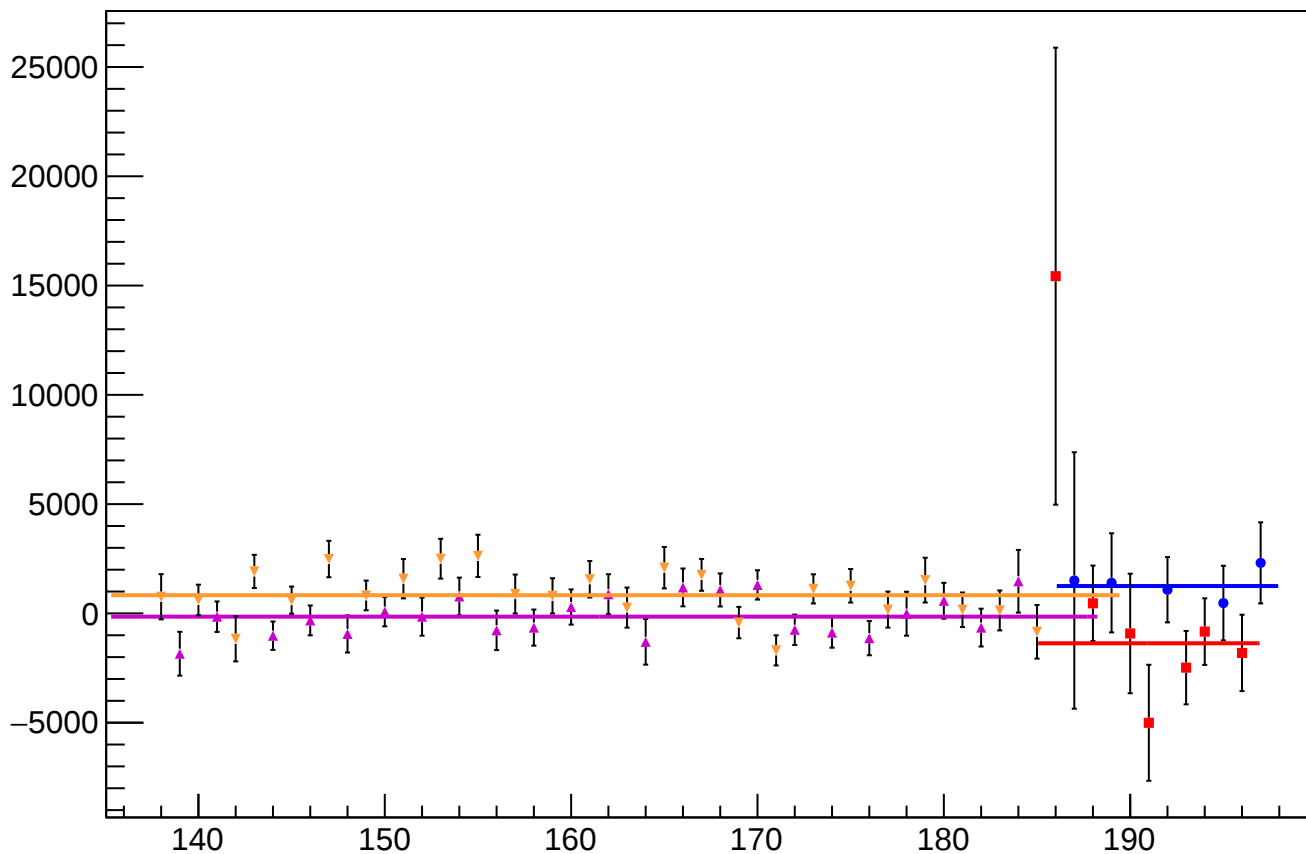
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1516.747 $\pm$ 0.616 χ^2 /NDF: 48520.1/4
 Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24
 Right Out: 1502.896 $\pm$ 0.535 χ^2 /NDF: 456129.1/6
 Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47
 Right: 1508.845 $\pm$ 0.404 χ^2 /NDF: 504937.4/11
 In: 714.579 $\pm$ 0.115 χ^2 /NDF: 2333415.3/27
 Out: 719.432 $\pm$ 0.111 χ^2 /NDF: 3367788.4/31
 All: 717.085 $\pm$ 0.080 χ^2 /NDF: 5702121.8/59

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1252.123 $\pm$ 875.297 χ^2 /NDF: 0.6/4

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

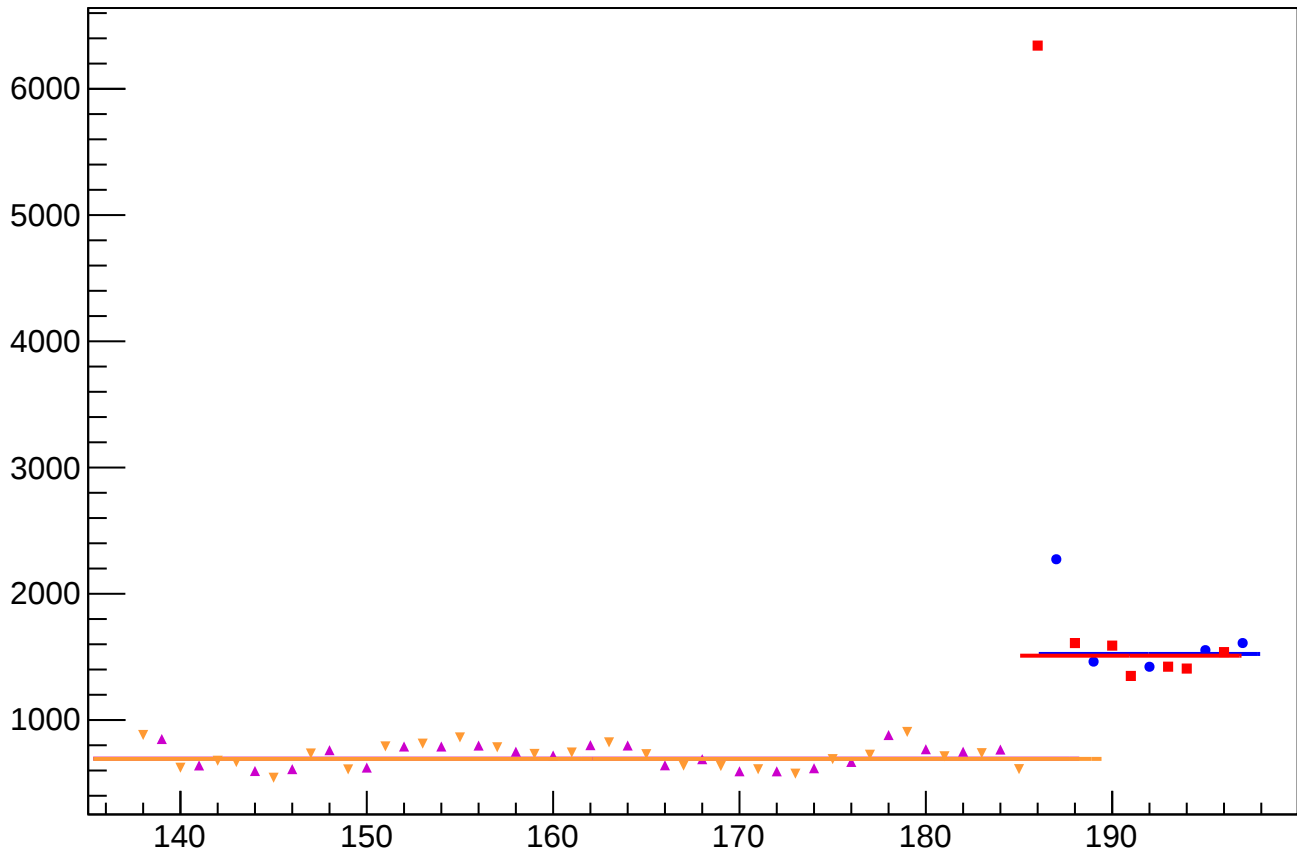
Right: -241.493 $\pm$ 573.686 χ^2 /NDF: 11.9/11

In: -99.242 $\pm$ 164.651 χ^2 /NDF: 29.1/27

Out: 736.599 $\pm$ 159.339 χ^2 /NDF: 57.5/31

All: 332.379 $\pm$ 114.502 χ^2 /NDF: 99.8/59

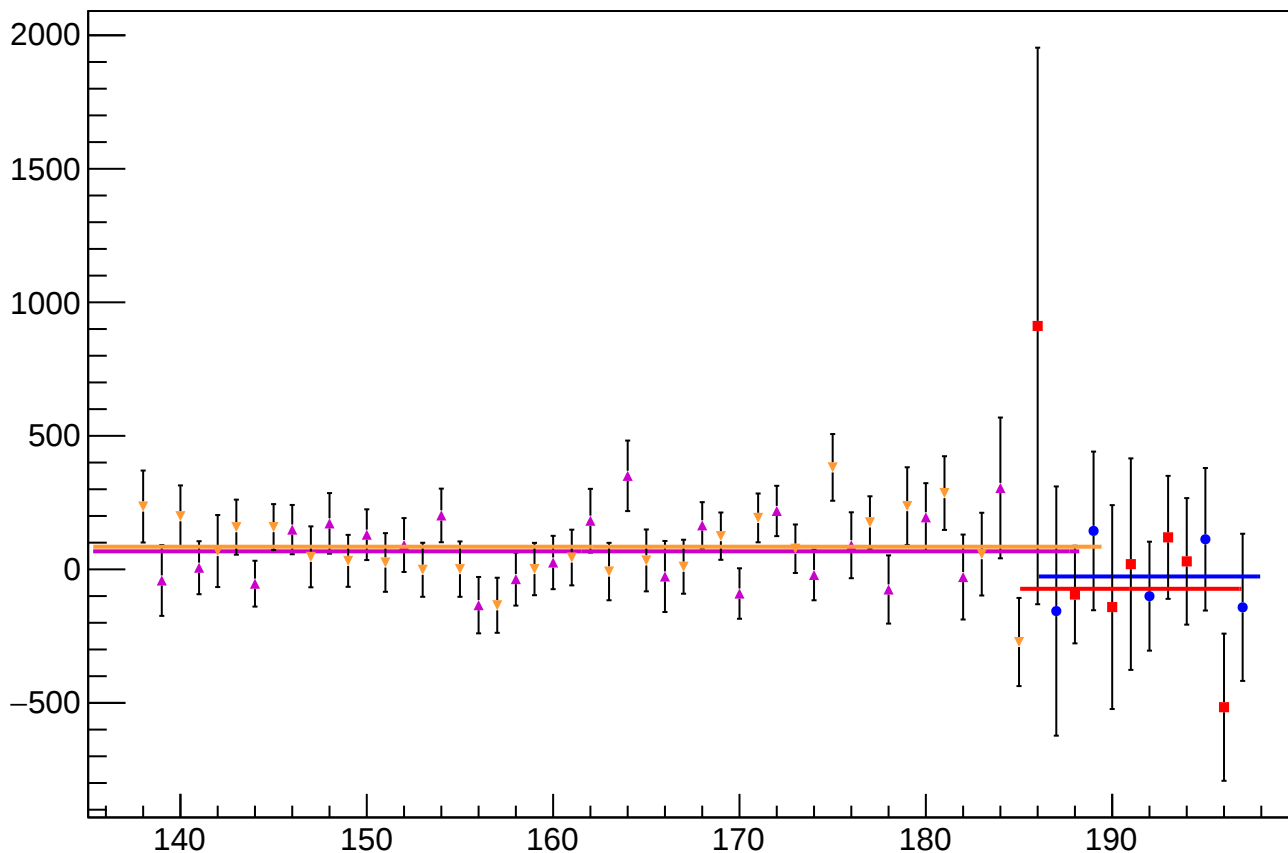
asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1523.353+/-0.619 χ^2/NDF : 48340.3/4
 Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24
 Right Out: 1509.644+/-0.537 χ^2/NDF : 457905.1/6
 Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47
 Right: 1515.533+/-0.406 χ^2/NDF : 506525.2/11
 In: 723.218+/-0.116 χ^2/NDF : 2302966.9/27
 Out: 728.072+/-0.113 χ^2/NDF : 3330106.9/31
 All: 725.725+/-0.081 χ^2/NDF : 5633971.3/59

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -26.583 ± 122.019 $\chi^2/\text{NDF}: 1.0/4$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -72.733 ± 103.176 $\chi^2/\text{NDF}: 4.5/6$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

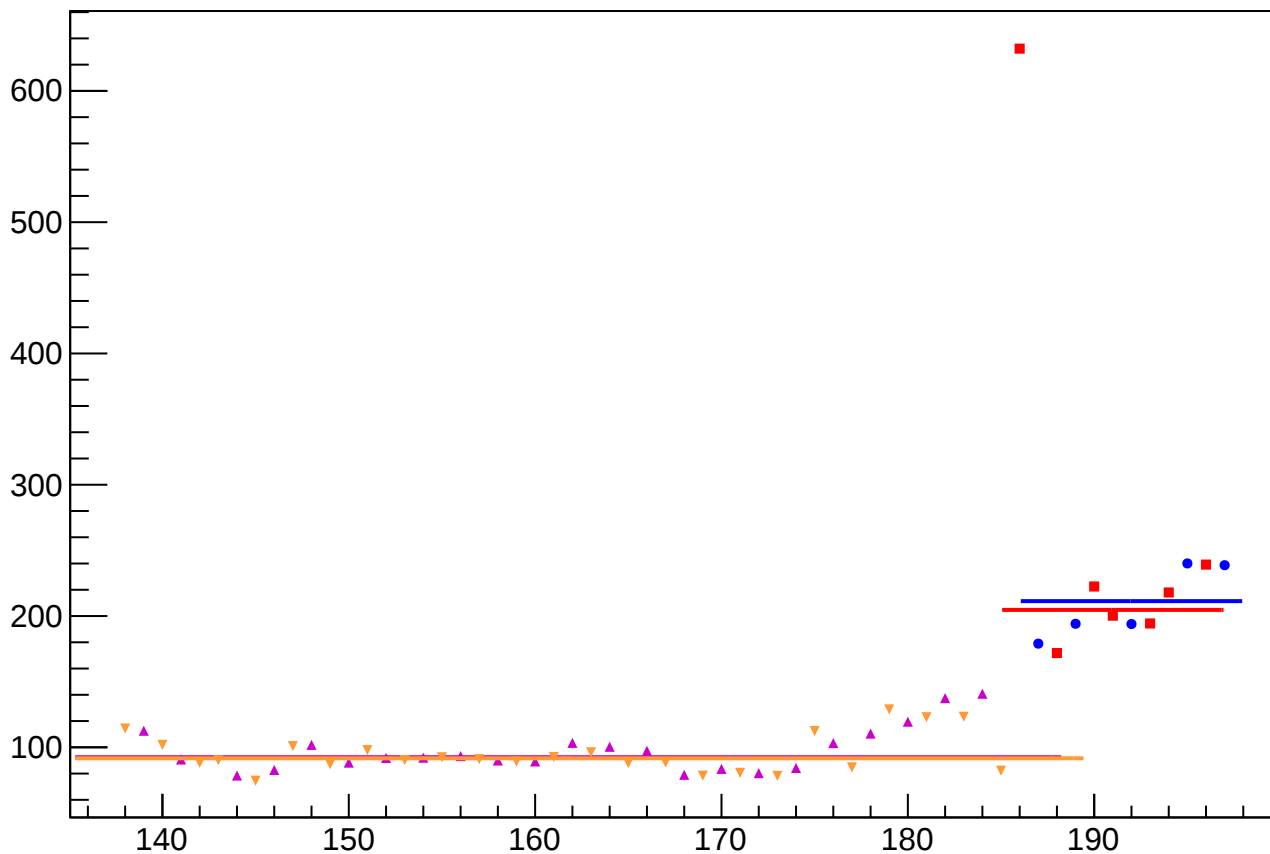
Right: -53.493 ± 78.786 $\chi^2/\text{NDF}: 5.5/11$

In: 64.470 ± 22.079 $\chi^2/\text{NDF}: 30.4/27$

Out: 78.218 ± 21.182 $\chi^2/\text{NDF}: 35.2/31$

All: 71.629 ± 15.285 $\chi^2/\text{NDF}: 65.8/59$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 211.352 $\pm$ 0.086 χ^2 /NDF: 73858.2/4

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

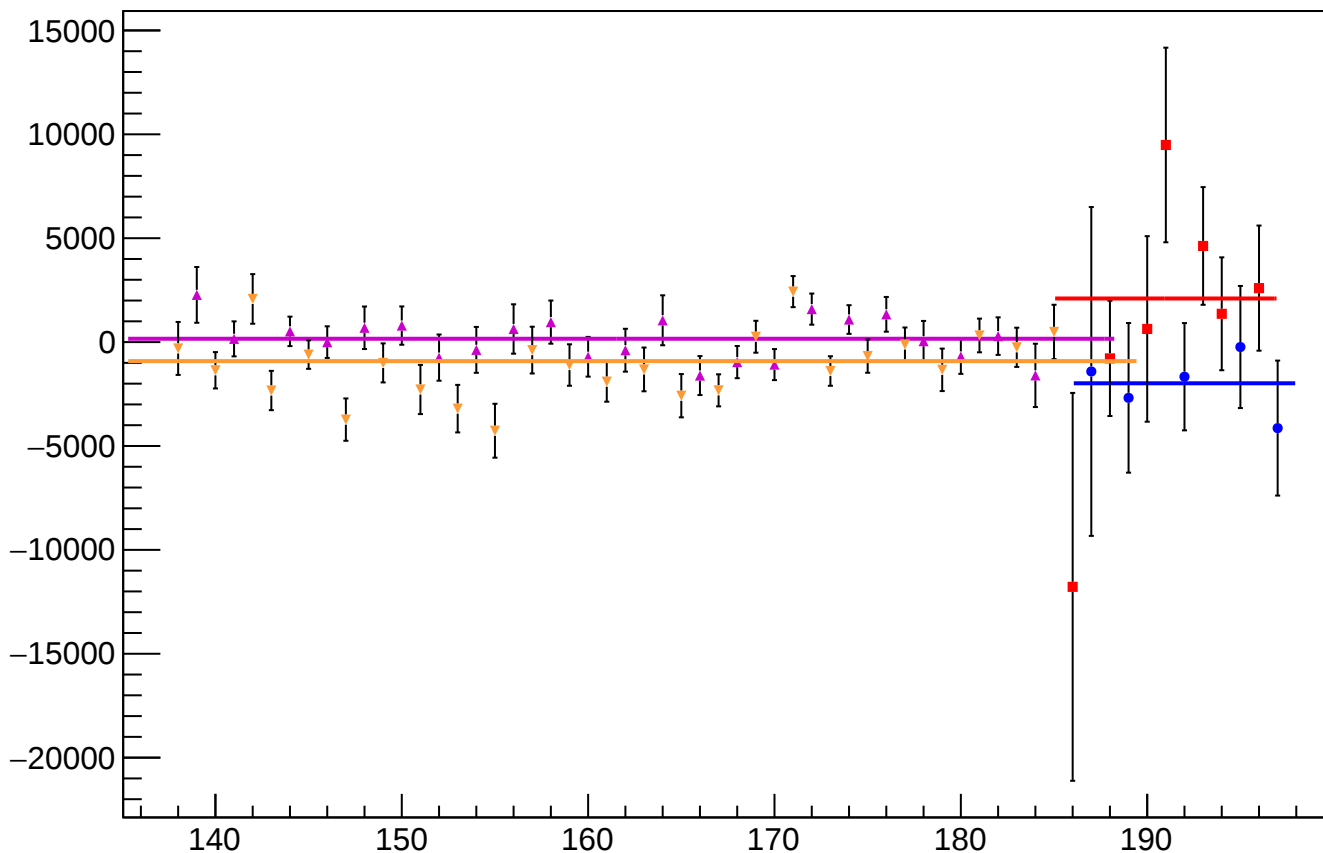
Right: 207.455 $\pm$ 0.056 χ^2 /NDF: 524928.0/11

In: 96.358 $\pm$ 0.016 χ^2 /NDF:2566010.9/27

Out: 96.397 $\pm$ 0.015 χ^2 /NDF:3440090.5/31

All: 96.378 $\pm$ 0.011 χ^2 /NDF: 6006104.6/59

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1981.966 ± 1484.564 χ^2/NDF : 0.9/4

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

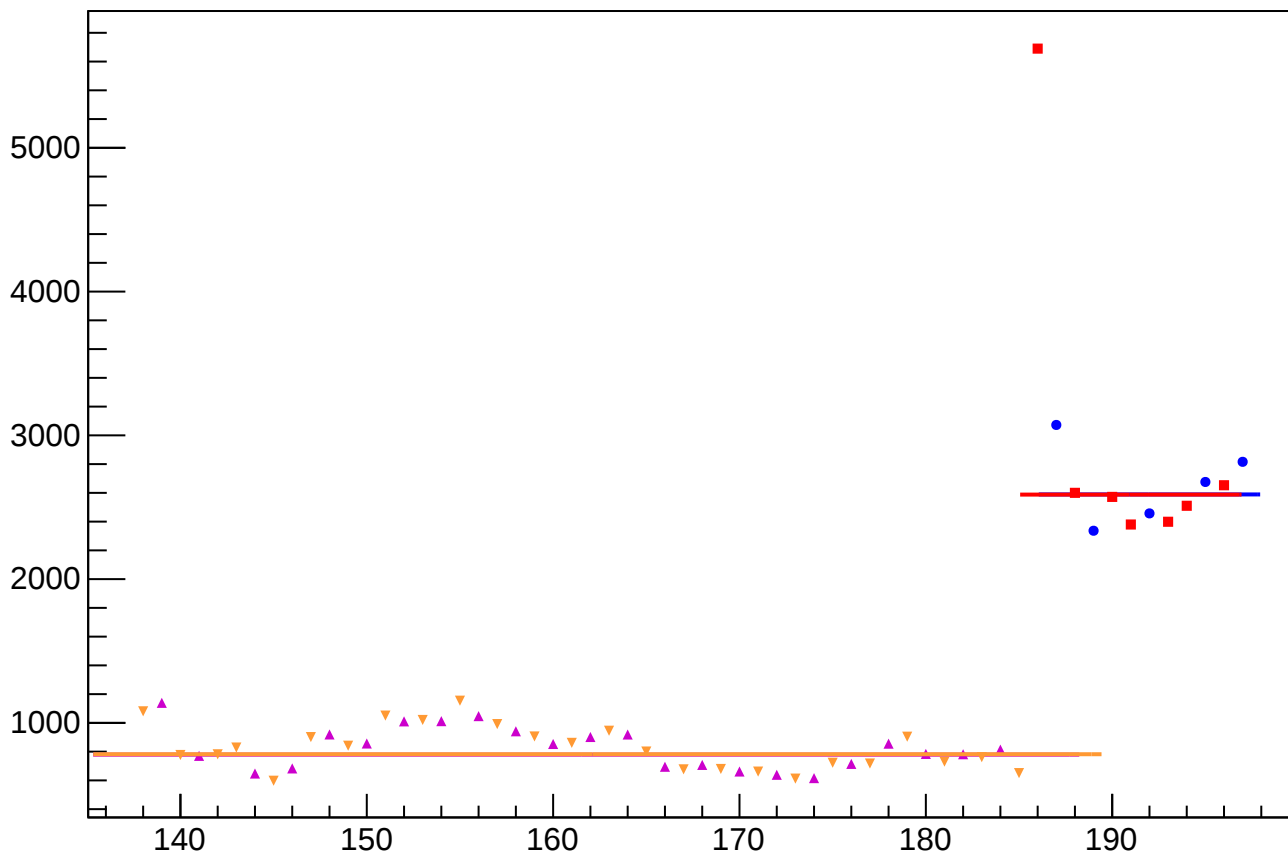
Right: 354.082 ± 970.665 χ^2/NDF : 12.0/11

In: 126.721 ± 187.966 χ^2/NDF : 28.0/27

Out: -853.111 ± 183.436 χ^2/NDF : 76.4/31

All: -375.143 ± 131.281 χ^2/NDF : 118.3/59

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2589.062 $\pm$ 1.050 χ^2 /NDF: 34021.8/4

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

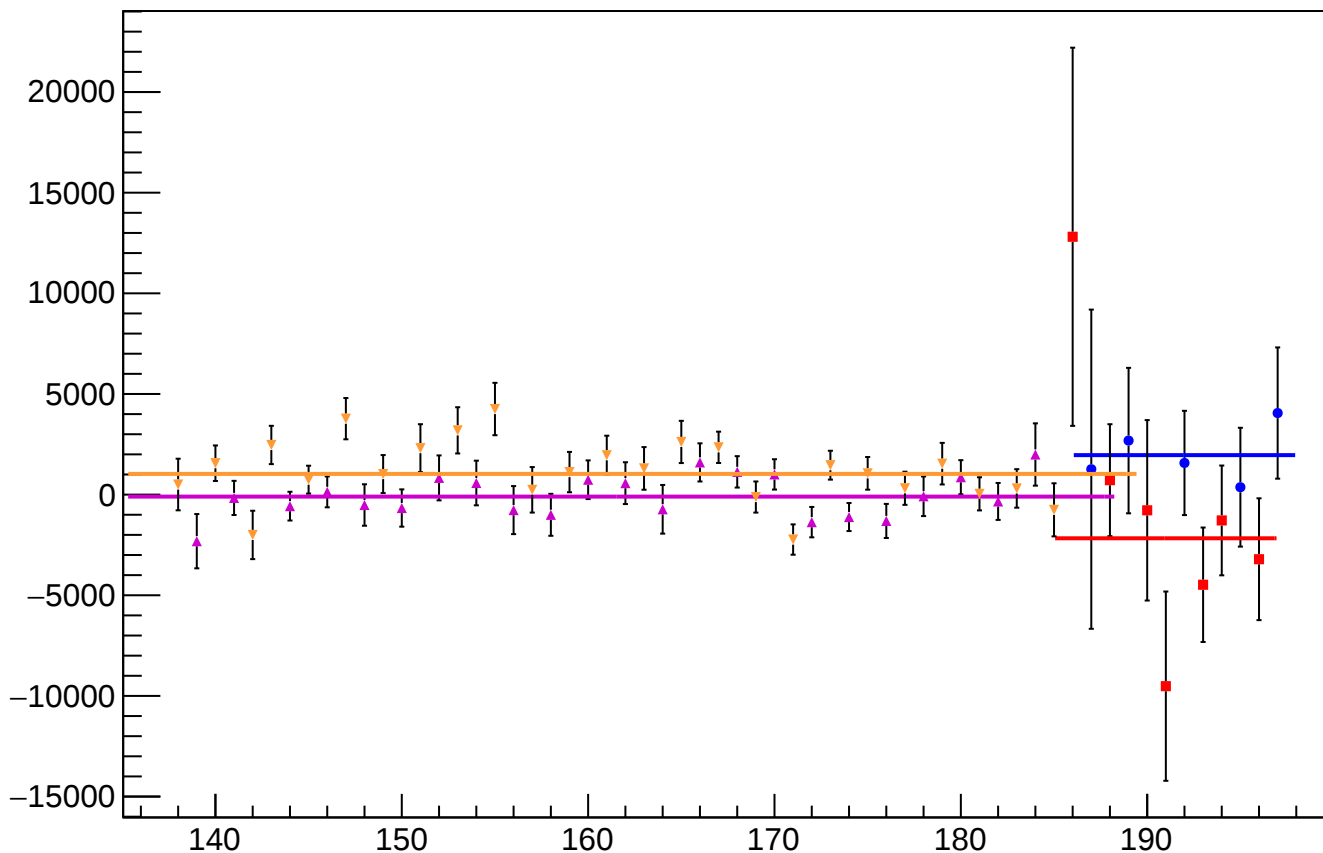
Right: 2588.422 $\pm$ 0.686 χ^2 /NDF: 270400.3/11

In: 808.012 $\pm$ 0.133 χ^2 /NDF:3939785.3/27

Out: 818.965 $\pm$ 0.130 χ^2 /NDF:5249578.1/31

All: 813.622 $\pm$ 0.093 χ^2 /NDF: 9192841.9/59

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1962.108 $\pm$ 1489.989 χ^2 /NDF: 0.8/4

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2169.587 $\pm$ 1287.663 χ^2 /NDF: 7.0/6

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

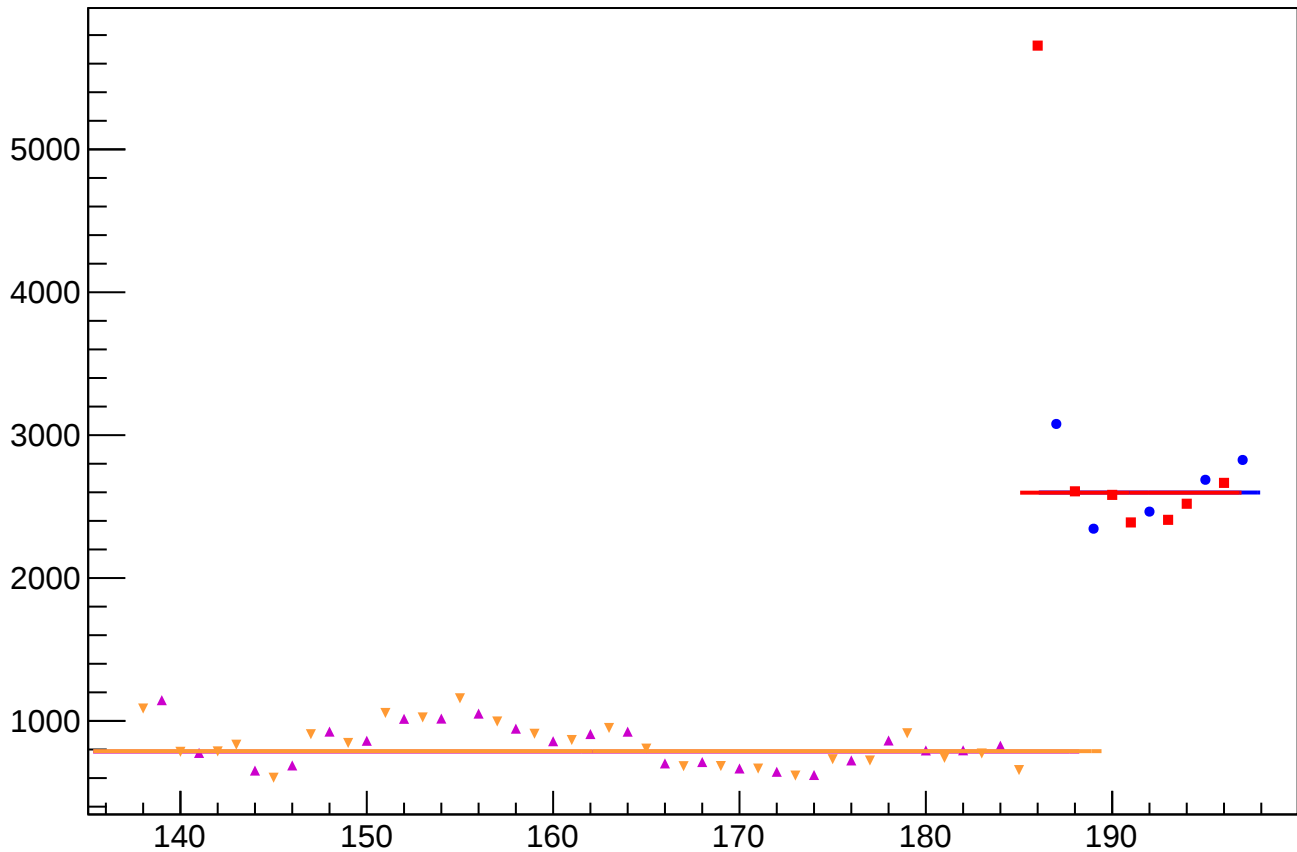
Right: -403.106 $\pm$ 974.257 χ^2 /NDF: 12.2/11

In: -65.365 $\pm$ 189.476 χ^2 /NDF:28.0/27

Out: 962.933 $\pm$ 184.875 χ^2 /NDF:73.2/31

All: 461.421 $\pm$ 132.323 χ^2 /NDF: 116.4/59

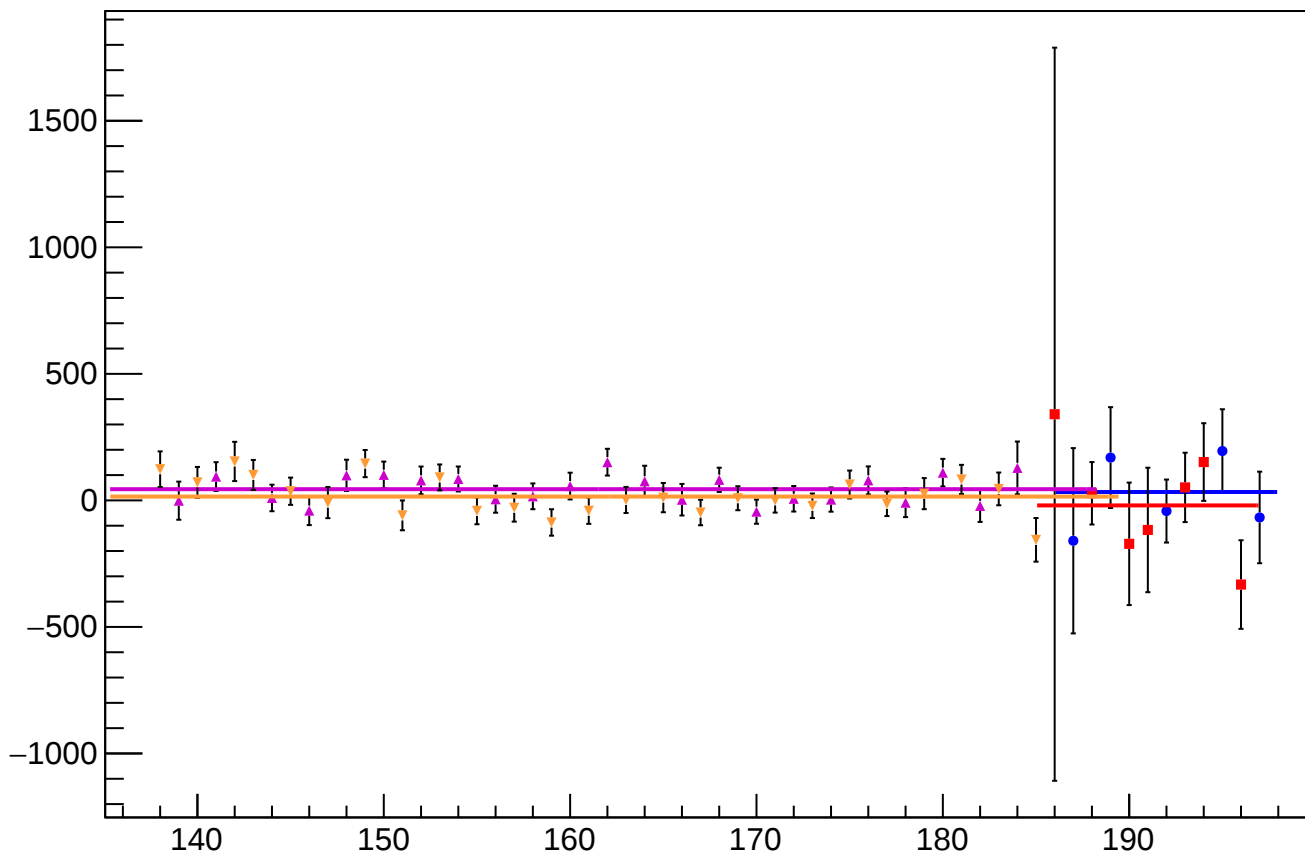
asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2598.527 $\pm$ 1.054 χ^2 /NDF: 34067.3/4
 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: 2597.935 $\pm$ 0.689 χ^2 /NDF: 271495.4/11
 In: 814.809 $\pm$ 0.134 χ^2 /NDF:3912782.4/27
 Out: 825.733 $\pm$ 0.131 χ^2 /NDF:5217341.8/31
 All: 820.405 $\pm$ 0.094 χ^2 /NDF: 9133529.4/59

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 33.222 $\pm$ 77.976 χ^2 /NDF: 2.4/4

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

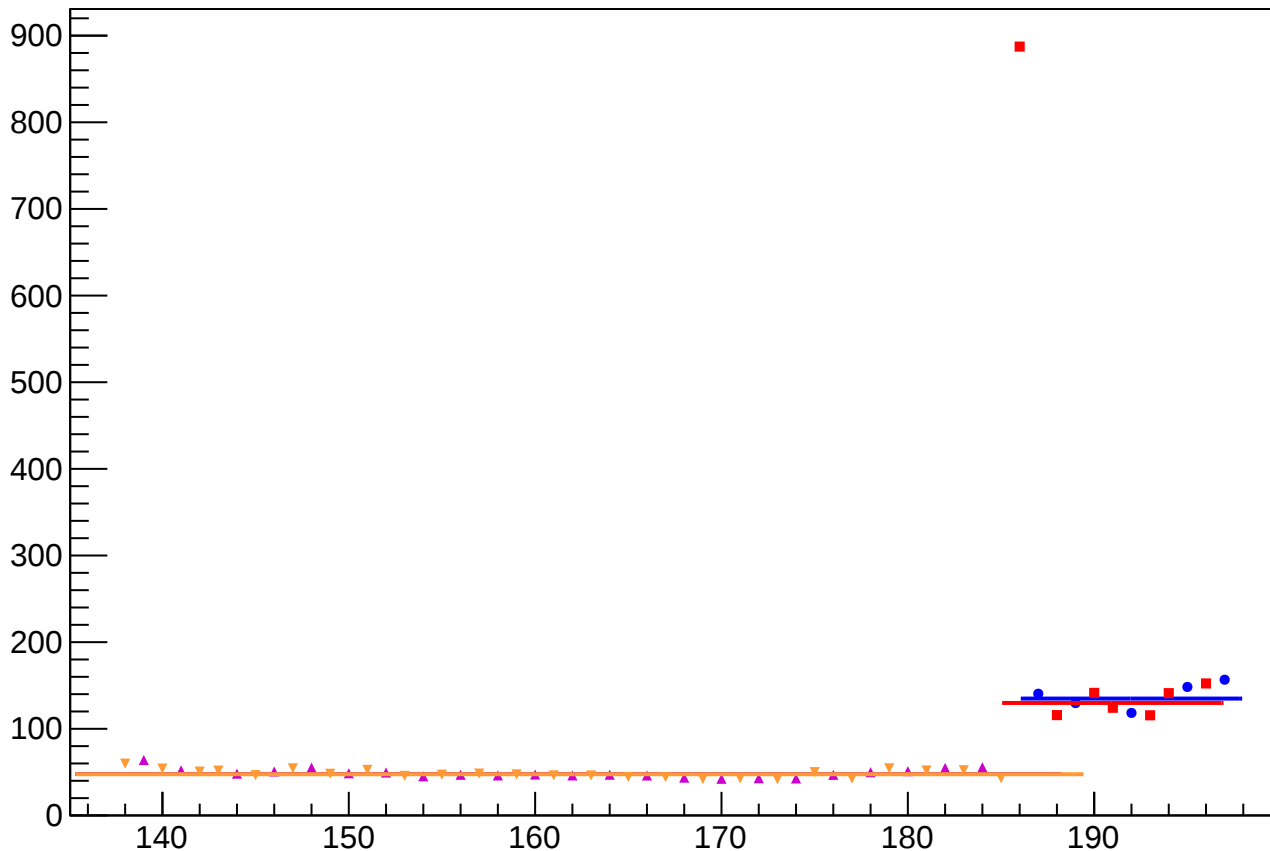
Right: 2.381 $\pm$ 50.464 χ^2 /NDF: 8.1/11

In: 44.060 $\pm$ 11.406 χ^2 /NDF:24.7/27

Out: 14.134 $\pm$ 10.999 χ^2 /NDF:39.9/31

All: 28.555 $\pm$ 7.917 χ^2 /NDF: 68.2/59

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 134.900 $\pm$ 0.055 χ^2 /NDF: 79416.6/4

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

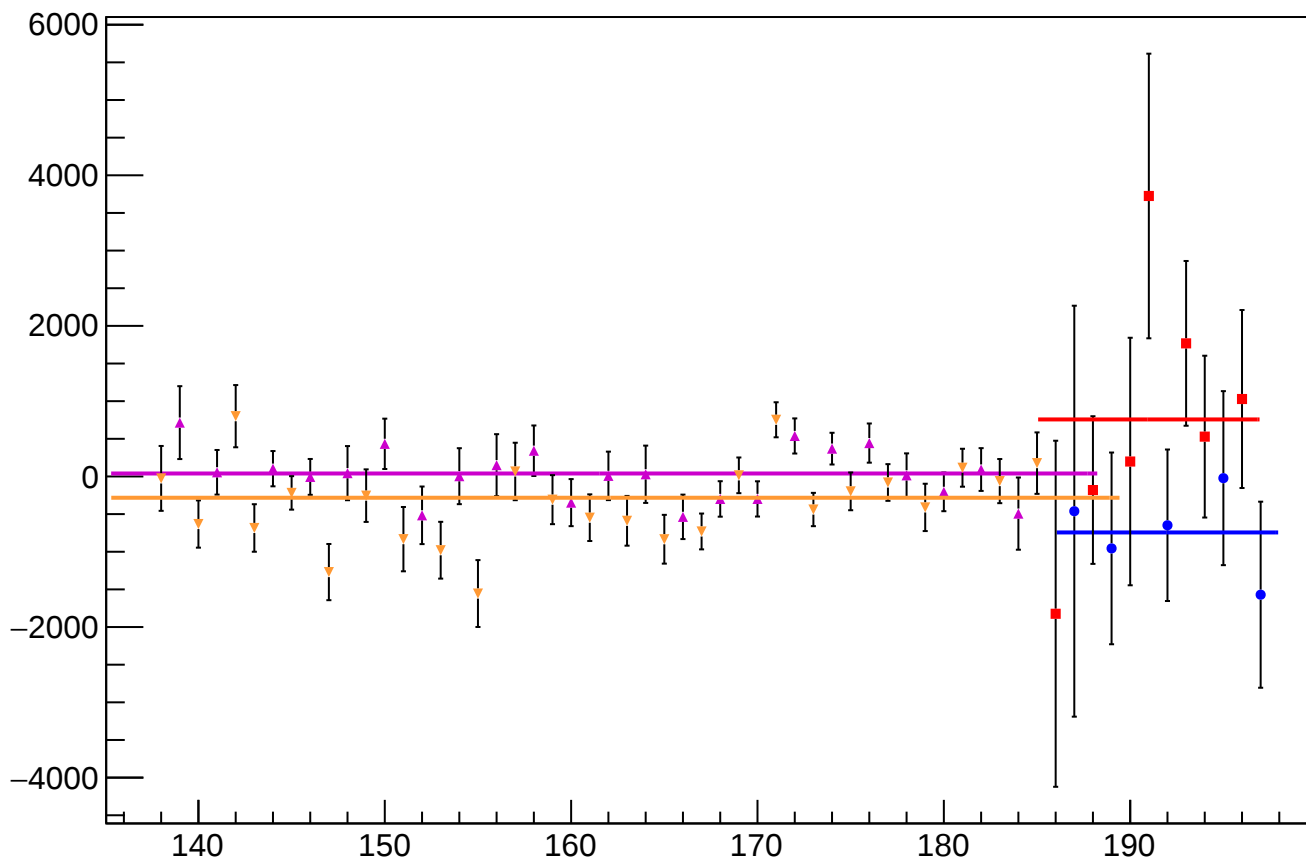
Right: 131.964 $\pm$ 0.036 χ^2 /NDF: 728433.1/11

In: 49.709 $\pm$ 0.008 χ^2 /NDF: 2800662.3/27

Out: 49.857 $\pm$ 0.008 χ^2 /NDF: 3960299.5/31

All: 49.786 $\pm$ 0.006 χ^2 /NDF: 6761138.0/59

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -743.652+/-564.081 χ^2/NDF : 0.9/4

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

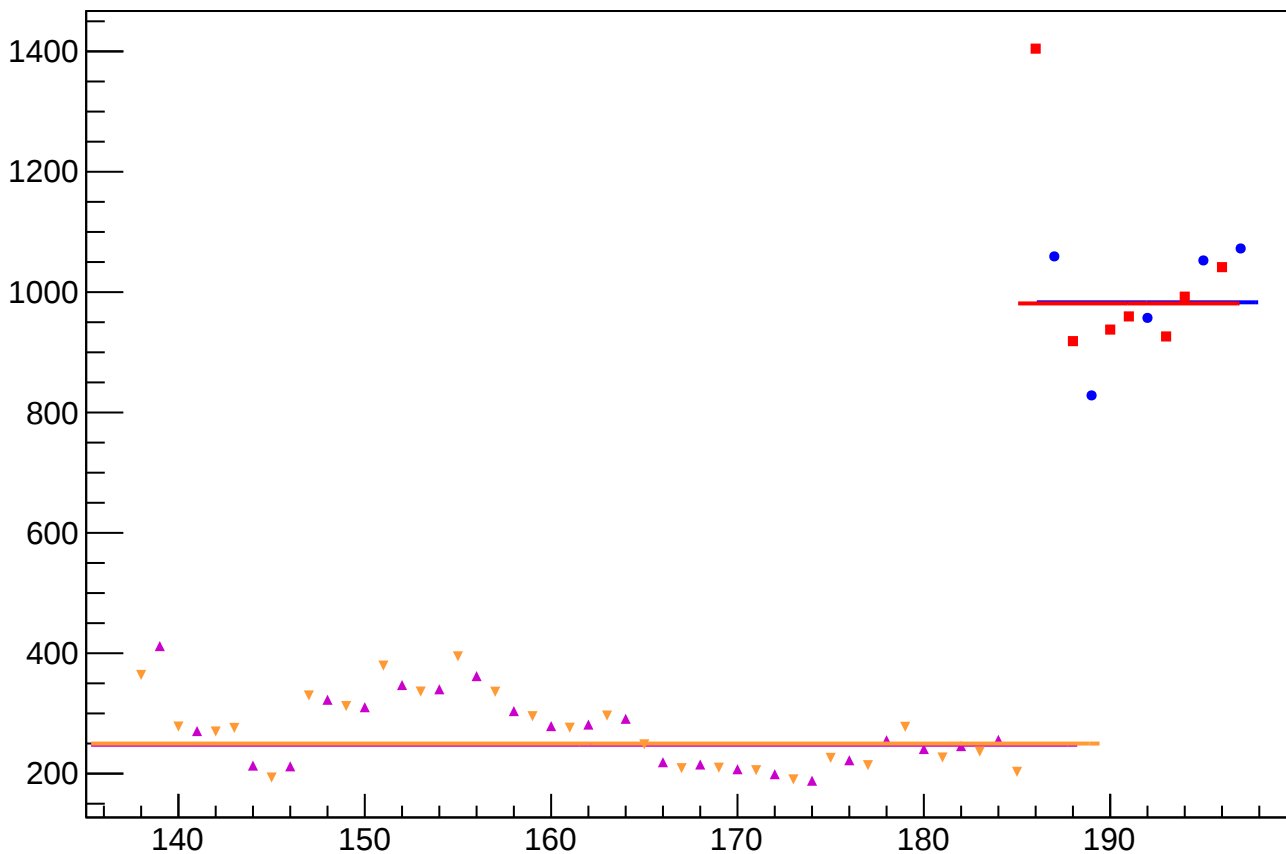
Right: 123.223+/-366.638 χ^2/NDF : 10.7/11

In: 30.451+/-60.409 χ^2/NDF : 30.3/27

Out: -267.117+/-59.238 χ^2/NDF : 76.8/31

All: -121.246+/-42.296 χ^2/NDF : 119.5/59

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 983.082 $\pm$ 0.399 χ^2 /NDF: 50141.9/4

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

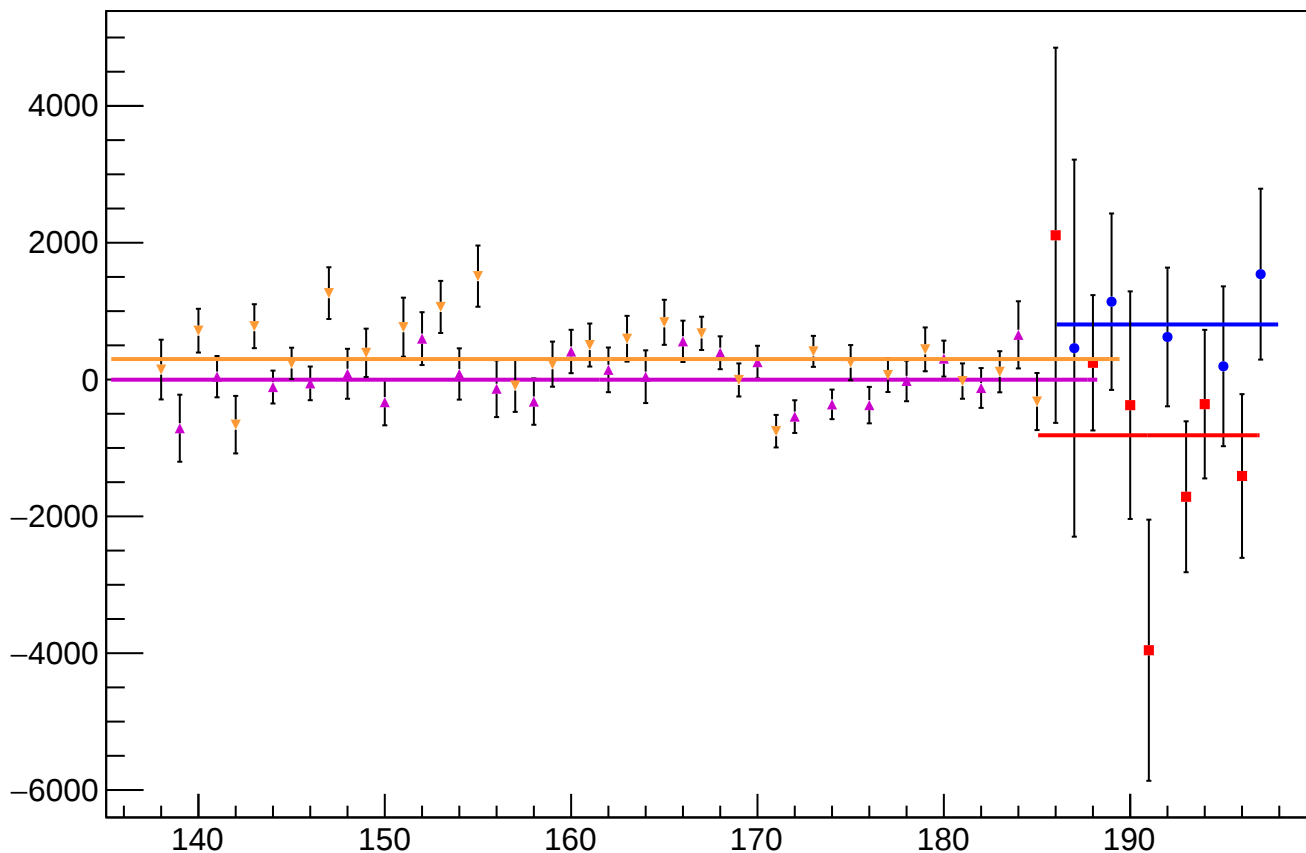
Right: 982.010 $\pm$ 0.259 χ^2 /NDF: 138288.0/11

In: 256.349 $\pm$ 0.043 χ^2 /NDF: 4819201.5/27

Out: 260.982 $\pm$ 0.042 χ^2 /NDF: 6228070.0/31

All: 258.710 $\pm$ 0.030 χ^2 /NDF: 11053268.4/59

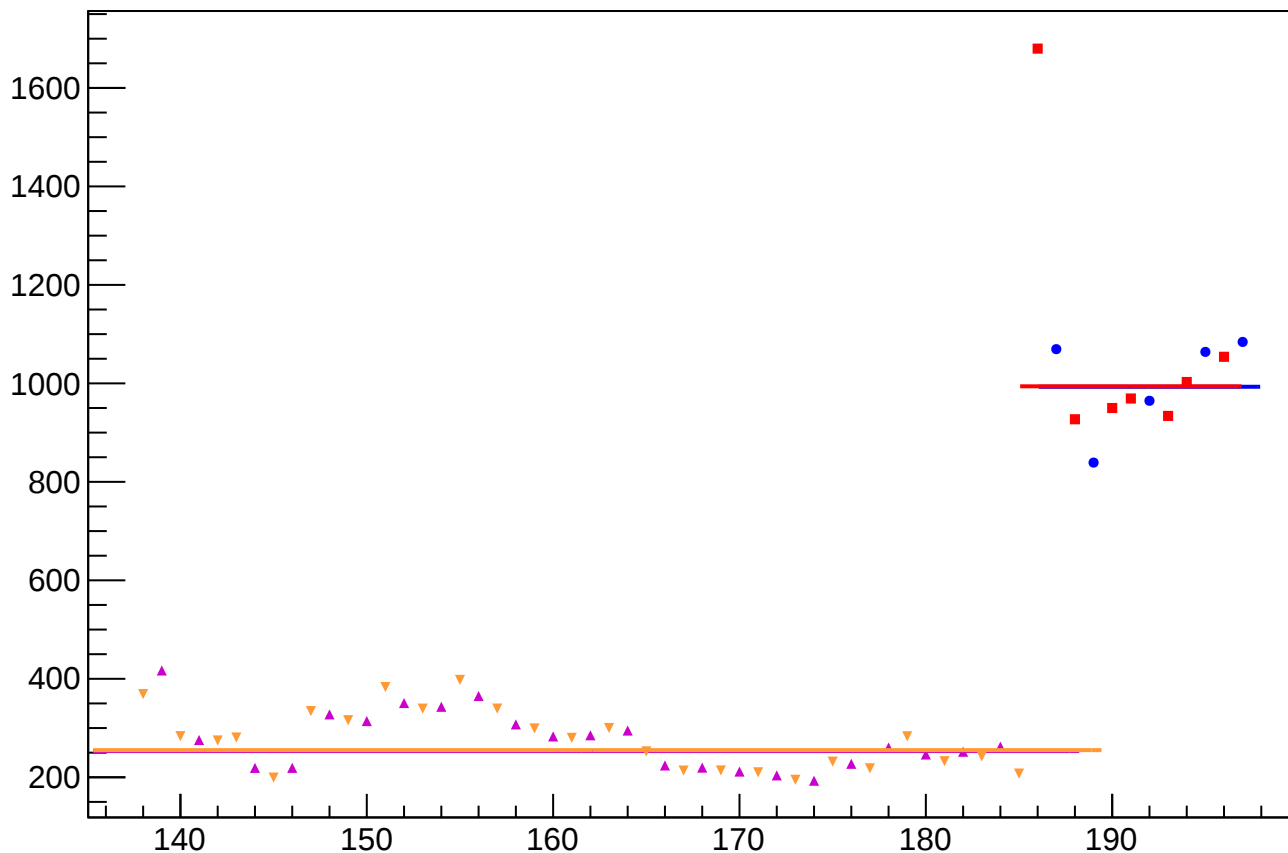
asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 805.366+/-569.835 χ^2/NDF : 0.7/4
 Left Out: 299.562+/-60.860 χ^2/NDF :62.5/24
 Right Out: -814.652+/-490.330 χ^2/NDF : 6.2/6
 Left In: -2.185+/-62.005 χ^2/NDF :29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47
 Right: -125.454+/-371.673 χ^2/NDF : 11.5/11
 In: 7.264+/-61.641 χ^2/NDF :31.9/27
 Out: 282.657+/-60.396 χ^2/NDF :73.7/31
 All: 147.769+/-43.140 χ^2/NDF : 115.8/59

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 993.120+/-0.403 χ^2/NDF : 49613.7/4

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 994.025+/-0.347 χ^2/NDF : 147063.0/6

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

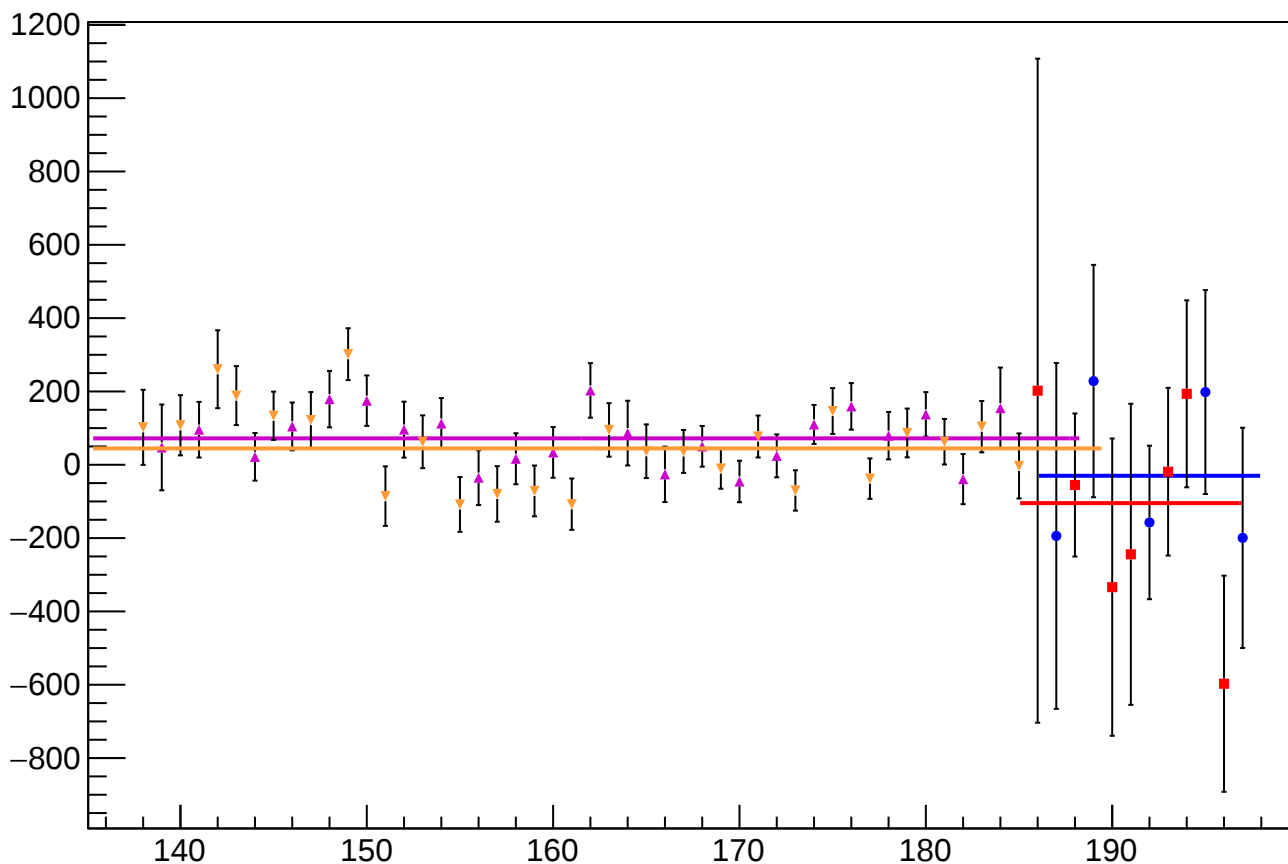
Right: 993.640+/-0.263 χ^2/NDF : 196679.7/11

In: 261.945+/-0.044 χ^2/NDF : 4723136.7/27

Out: 266.346+/-0.043 χ^2/NDF : 6161836.3/31

All: 264.190+/-0.031 χ^2/NDF : 10890175.1/59

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -29.973 ± 127.753 χ^2/NDF : 2.1/4

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -104.552 ± 108.142 χ^2/NDF : 4.9/6

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

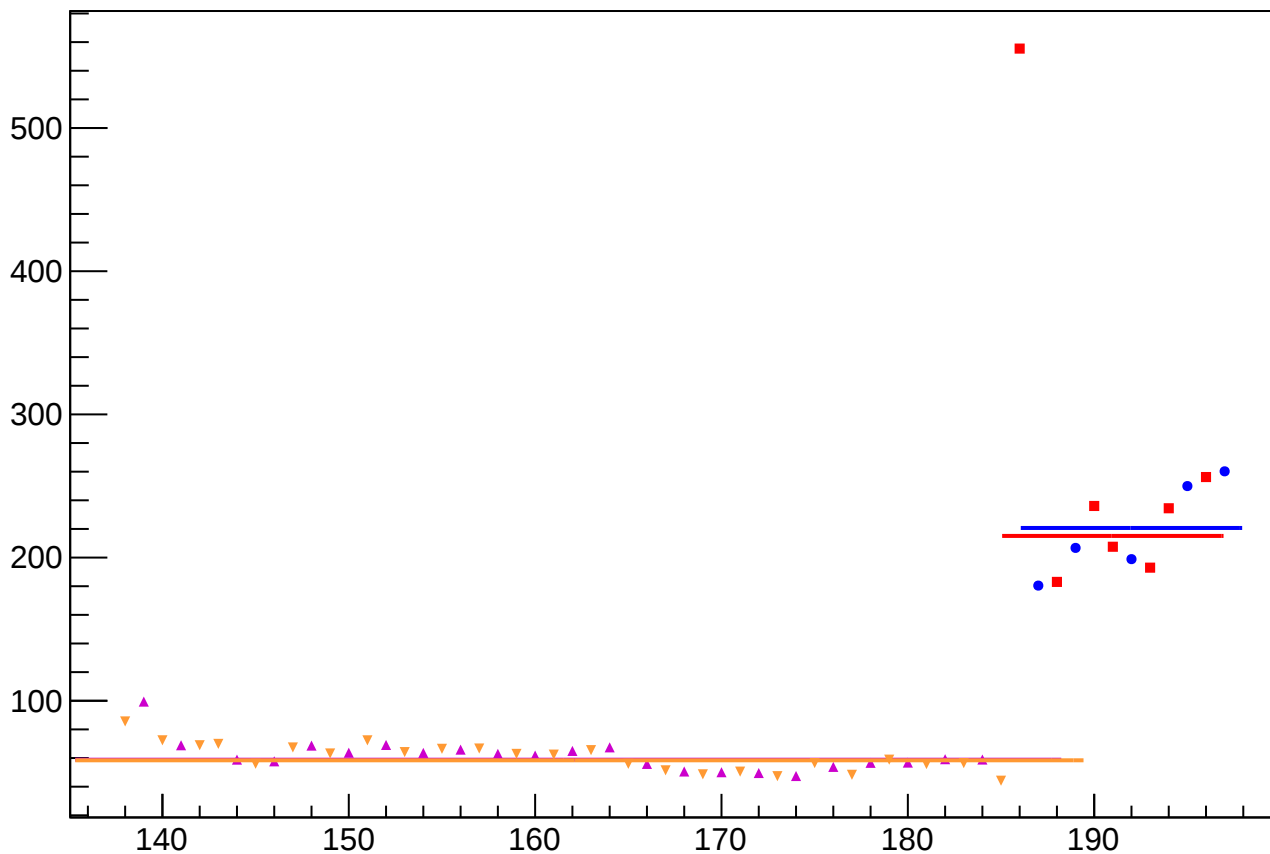
Right: -73.420 ± 82.540 χ^2/NDF : 7.3/11

In: 70.775 ± 14.208 χ^2/NDF : 28.1/27

Out: 42.204 ± 13.713 χ^2/NDF : 60.7/31

All: 55.983 ± 9.867 χ^2/NDF : 90.9/59

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 220.685 $\pm$ 0.090 χ^2 /NDF: 96841.1/4

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

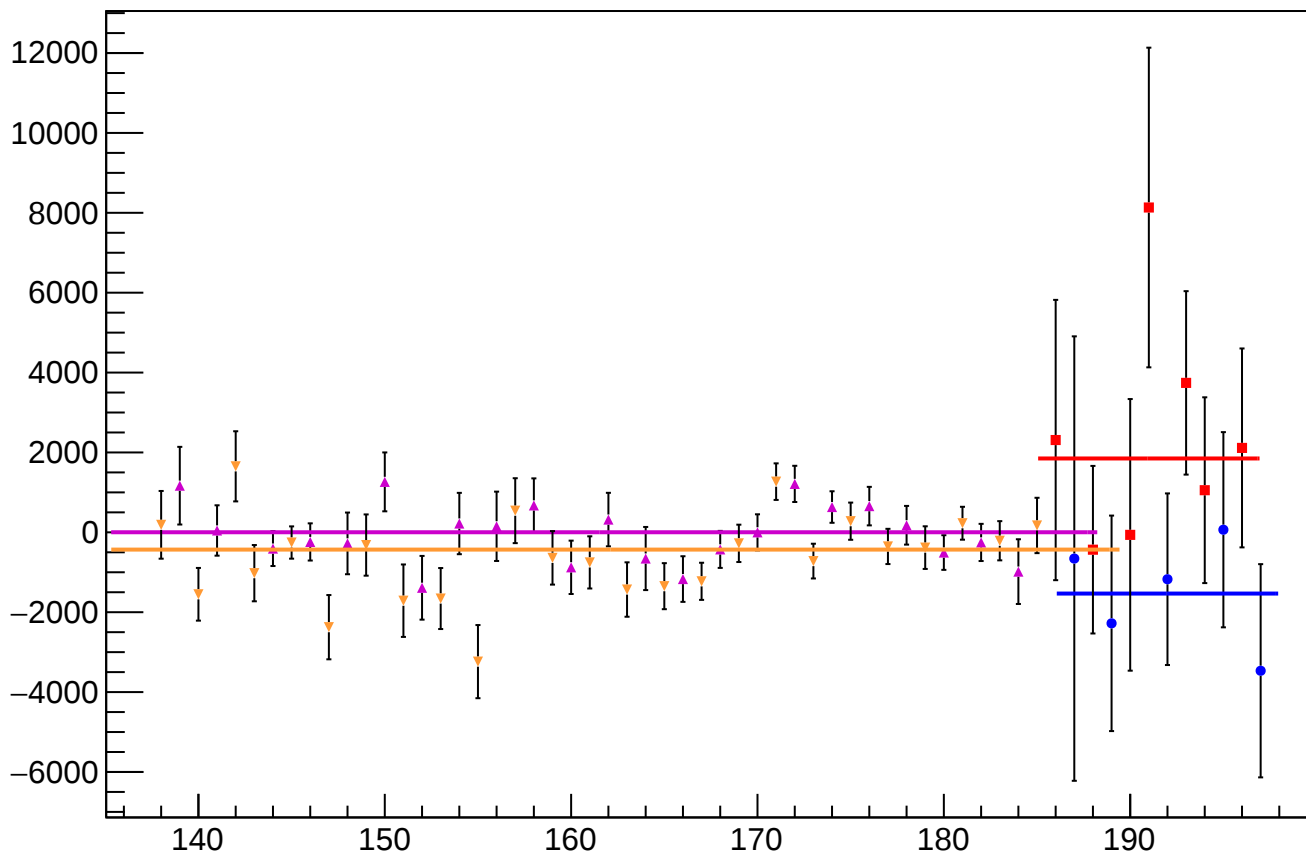
Right: 217.448 $\pm$ 0.058 χ^2 /NDF: 510874.9/11

In: 60.841 $\pm$ 0.010 χ^2 /NDF: 3946969.3/27

Out: 60.942 $\pm$ 0.010 χ^2 /NDF: 5333985.8/31

All: 60.894 $\pm$ 0.007 χ^2 /NDF: 9281007.4/59

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1533.149 ± 1200.258 $\chi^2/\text{NDF}: 1.1/4$

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 $\chi^2/\text{NDF}: 98.8/47$

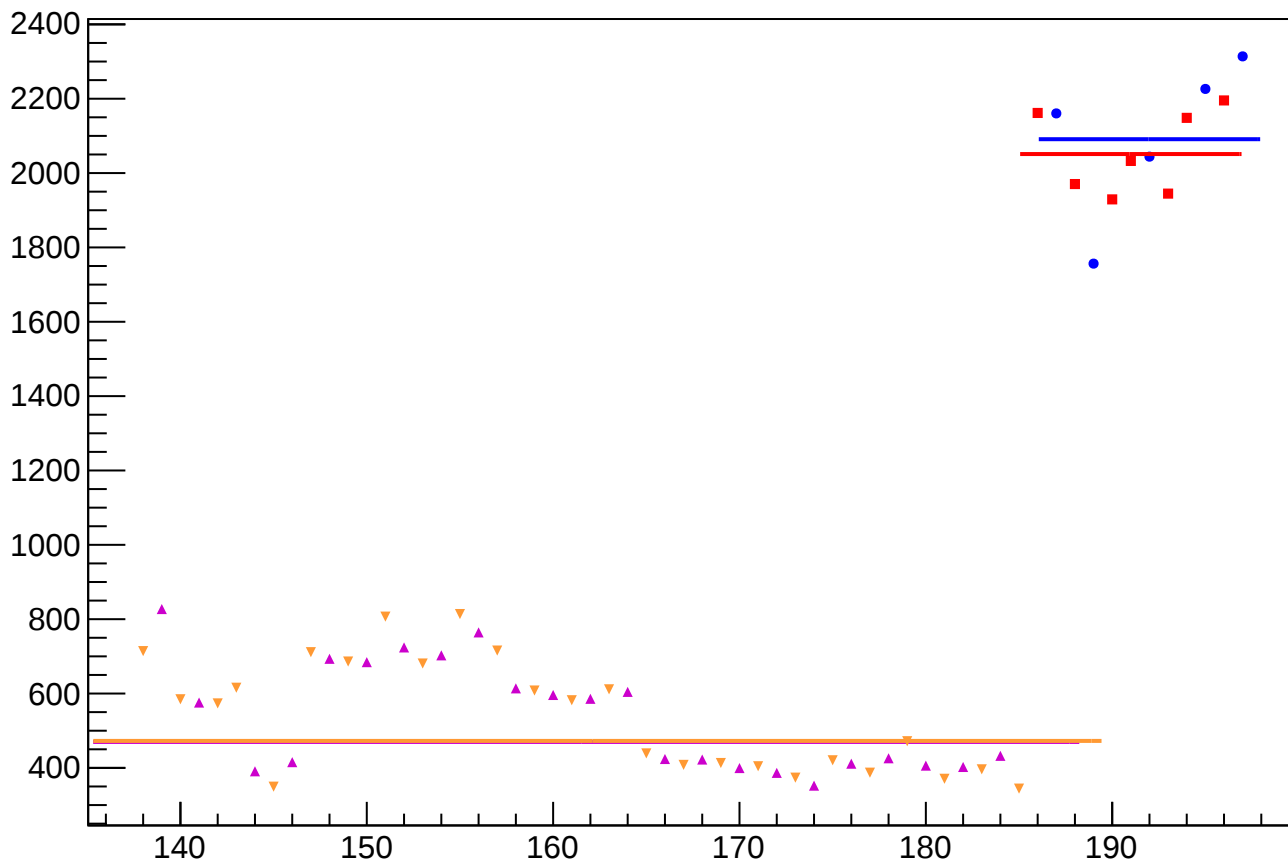
Right: 457.657 ± 769.860 $\chi^2/\text{NDF}: 10.5/11$

In: -12.491 ± 115.914 $\chi^2/\text{NDF}: 35.0/27$

Out: -403.054 ± 113.672 $\chi^2/\text{NDF}: 69.3/31$

All: -211.587 ± 81.159 $\chi^2/\text{NDF}: 110.1/59$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 2091.102 $\pm$ 0.849 χ^2 /NDF: 52106.0/4

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

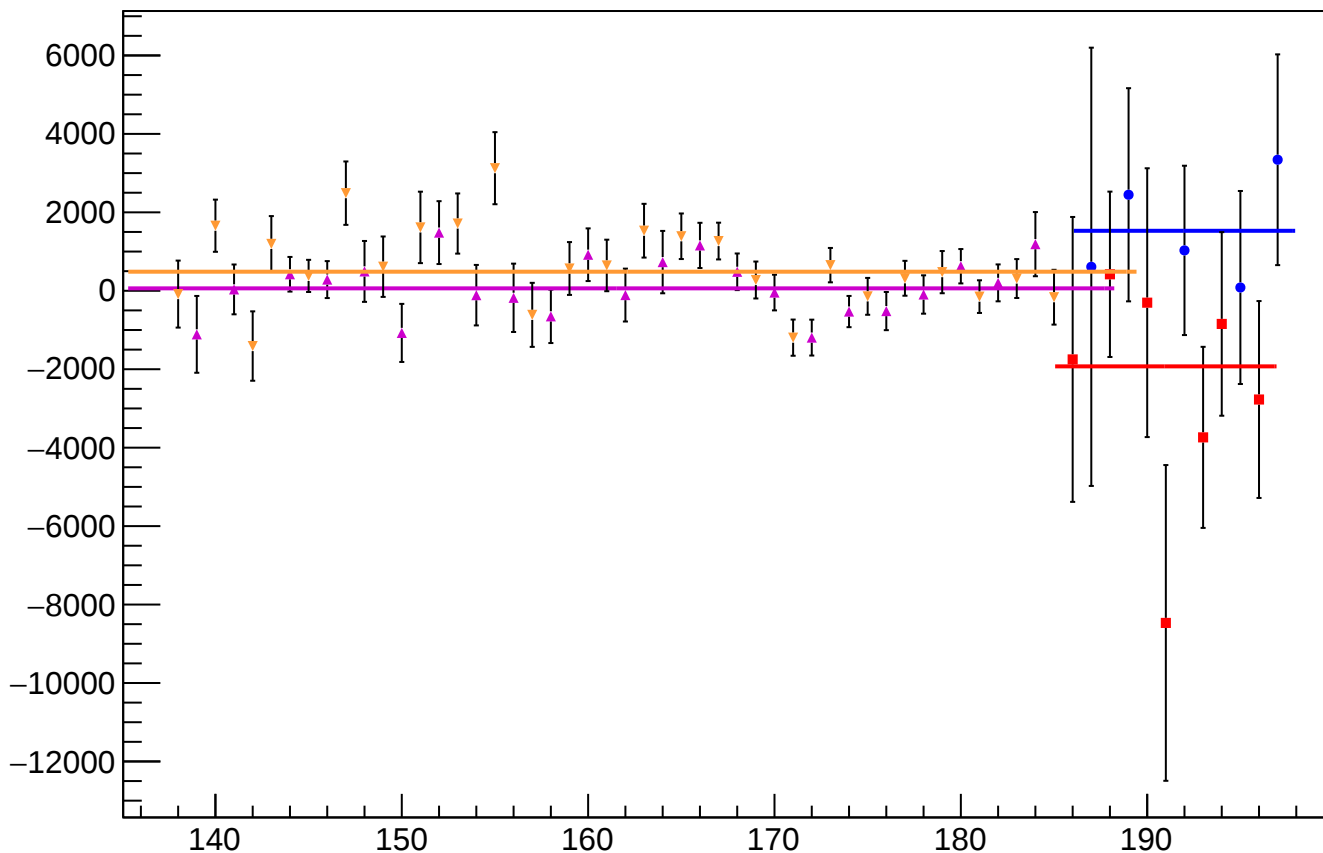
Right: 2067.605 $\pm$ 0.544 χ^2 /NDF: 75473.6/11

In: 484.883 $\pm$ 0.082 χ^2 /NDF: 5784420.8/27

Out: 492.826 $\pm$ 0.080 χ^2 /NDF: 7416327.4/31

All: 488.932 $\pm$ 0.057 χ^2 /NDF: 13205535.1/59

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1529.398 ± 1207.596 χ^2/NDF : 1.0/4

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

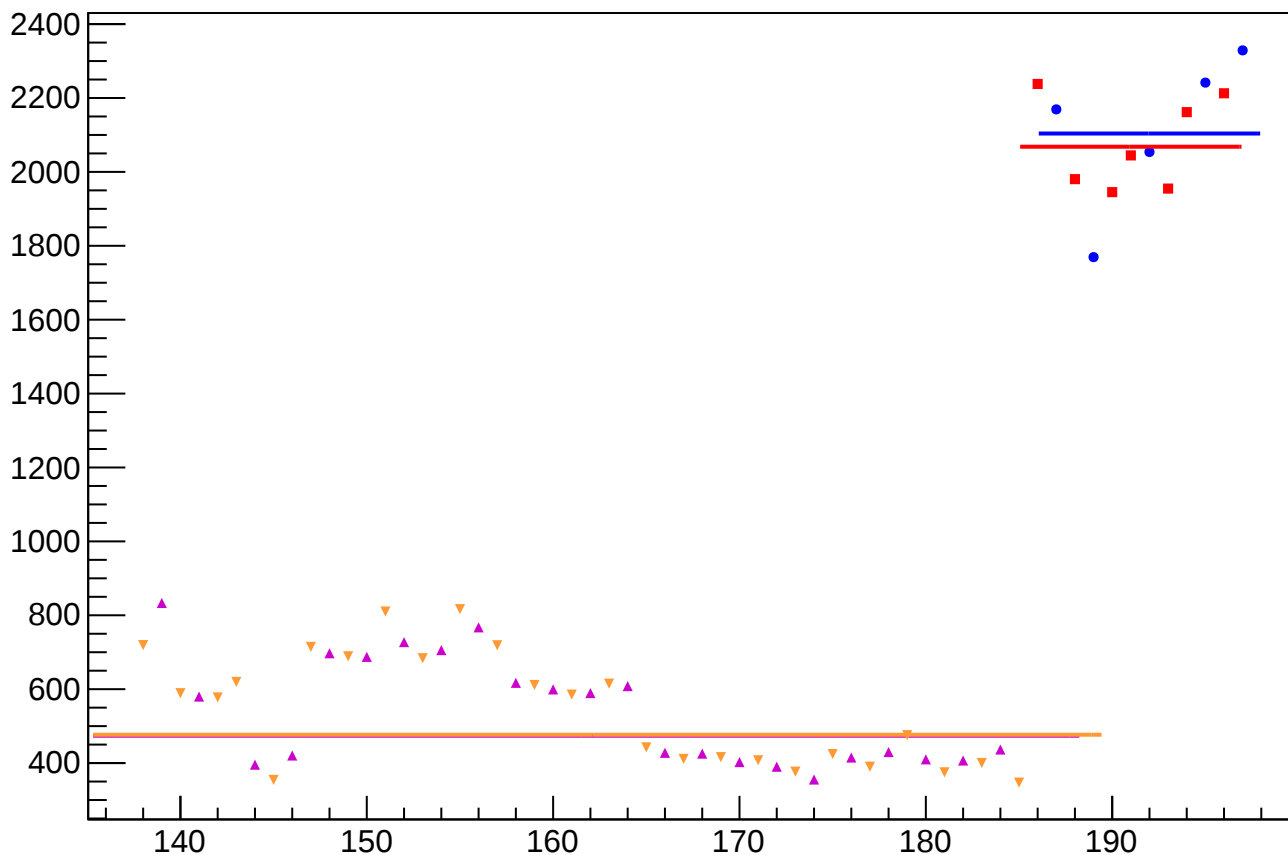
Right: -501.338 ± 775.593 χ^2/NDF : 10.9/11

In: 75.527 ± 116.897 χ^2/NDF : 33.6/27

Out: 455.682 ± 114.604 χ^2/NDF : 66.7/31

All: 269.370 ± 81.836 χ^2/NDF : 105.7/59

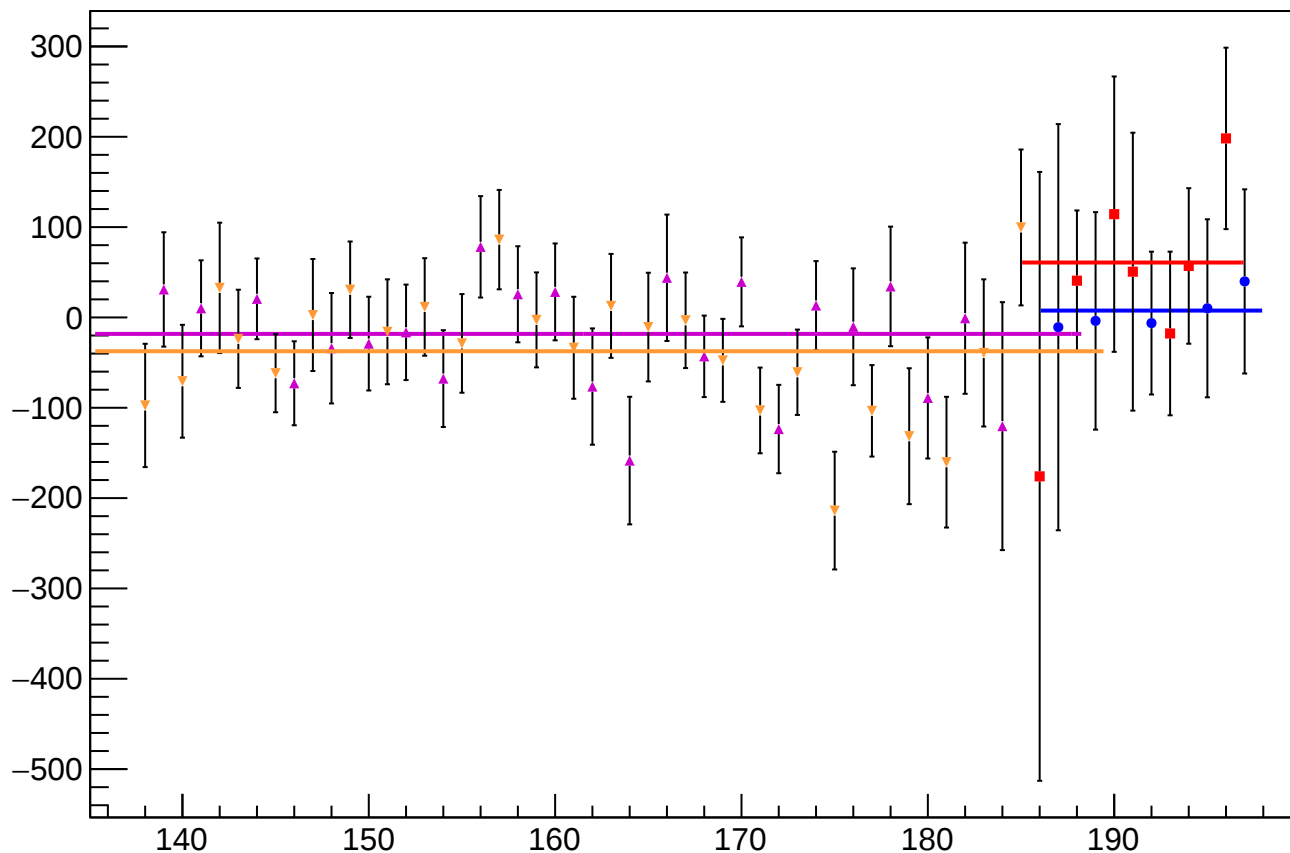
asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 2103.880+/-0.854 χ^2/NDF : 51953.8/4
 Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24
 Right Out: 2068.163+/-0.716 χ^2/NDF : 25140.4/6
 Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47
 Right: 2082.896+/-0.548 χ^2/NDF : 78122.1/11
 In: 489.256+/-0.083 χ^2/NDF : 5748326.5/27
 Out: 497.104+/-0.081 χ^2/NDF : 7381727.0/31
 All: 493.258+/-0.058 χ^2/NDF : 13134650.1/59

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 7.598 ± 47.248 $\chi^2/\text{NDF}: 0.1/4$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: 60.806 ± 40.309 $\chi^2/\text{NDF}: 3.3/6$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

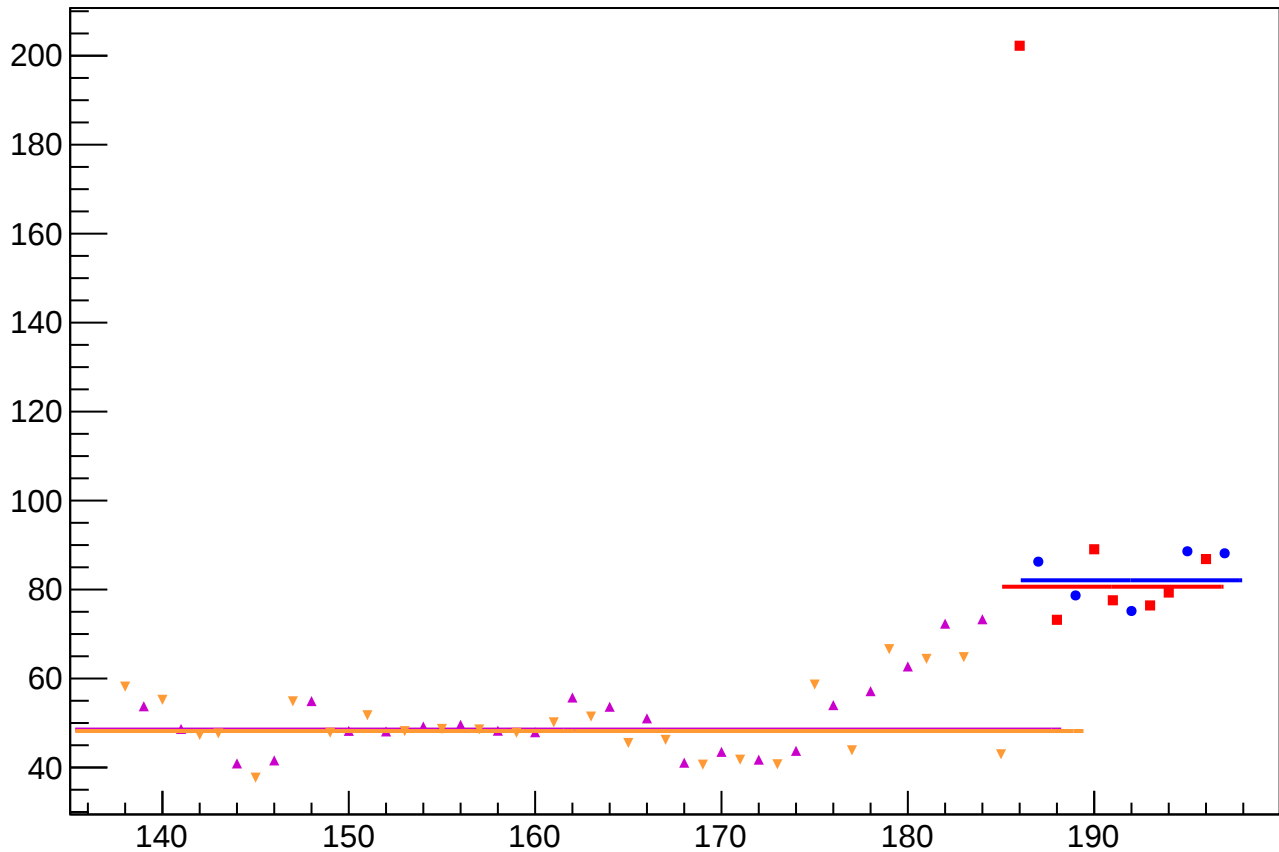
Right: 38.392 ± 30.665 $\chi^2/\text{NDF}: 4.2/11$

In: -16.698 ± 11.437 $\chi^2/\text{NDF}: 23.4/27$

Out: -30.151 ± 10.961 $\chi^2/\text{NDF}: 39.3/31$

All: -23.710 ± 7.913 $\chi^2/\text{NDF}: 63.4/59$

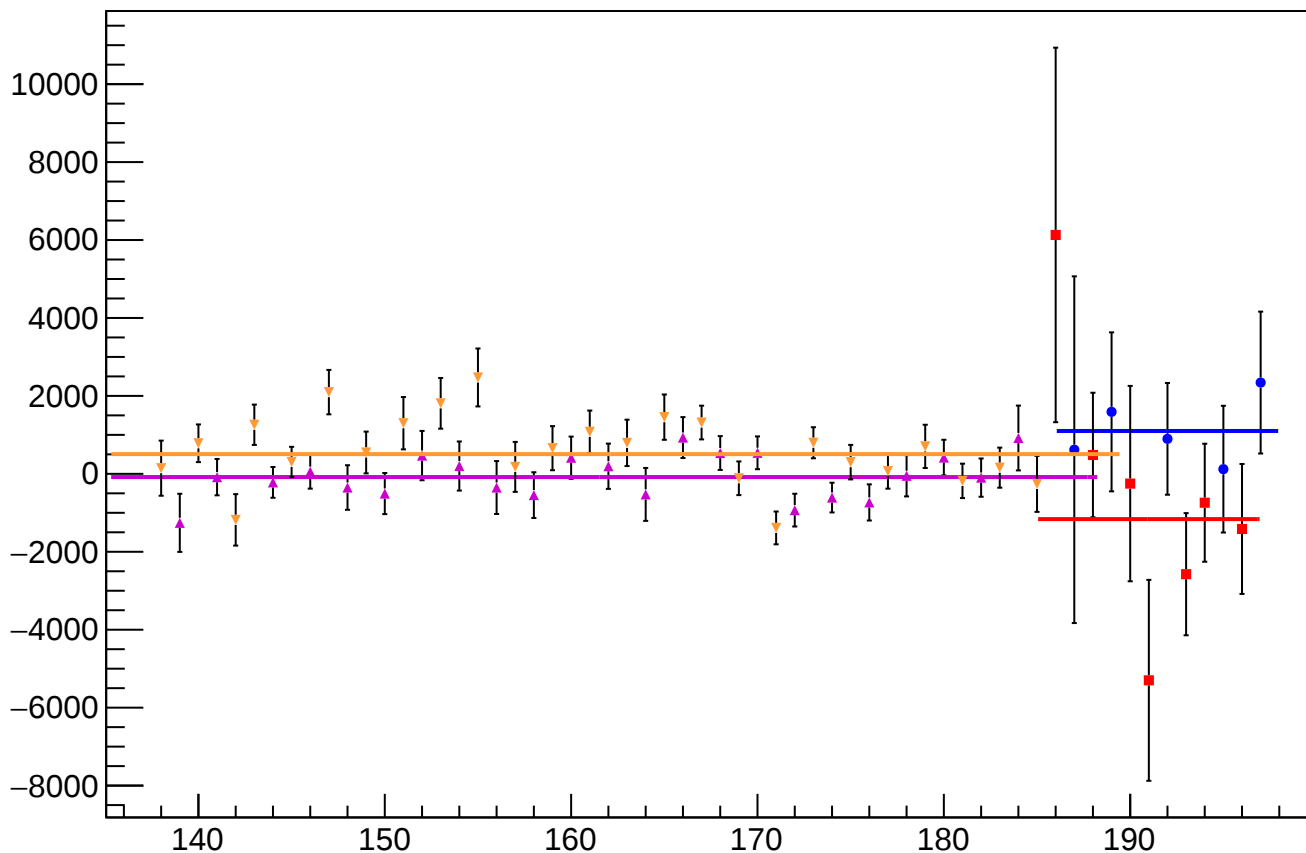
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 82.079 ± 0.033 $\chi^2/\text{NDF}: 33386.6/4$
 Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$
 Right Out: 80.637 ± 0.029 $\chi^2/\text{NDF}: 298015.9/6$
 Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$
 Right: 81.245 ± 0.022 $\chi^2/\text{NDF}: 332481.2/11$
 In: 50.493 ± 0.008 $\chi^2/\text{NDF}: 1658232.4/27$
 Out: 50.598 ± 0.008 $\chi^2/\text{NDF}: 2247588.8/31$
 All: 50.548 ± 0.006 $\chi^2/\text{NDF}: 3905909.2/59$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1099.942 $\pm$ 828.353 χ^2 /NDF: 0.9/4

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1161.610 $\pm$ 716.513 χ^2 /NDF: 7.0/6

Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47

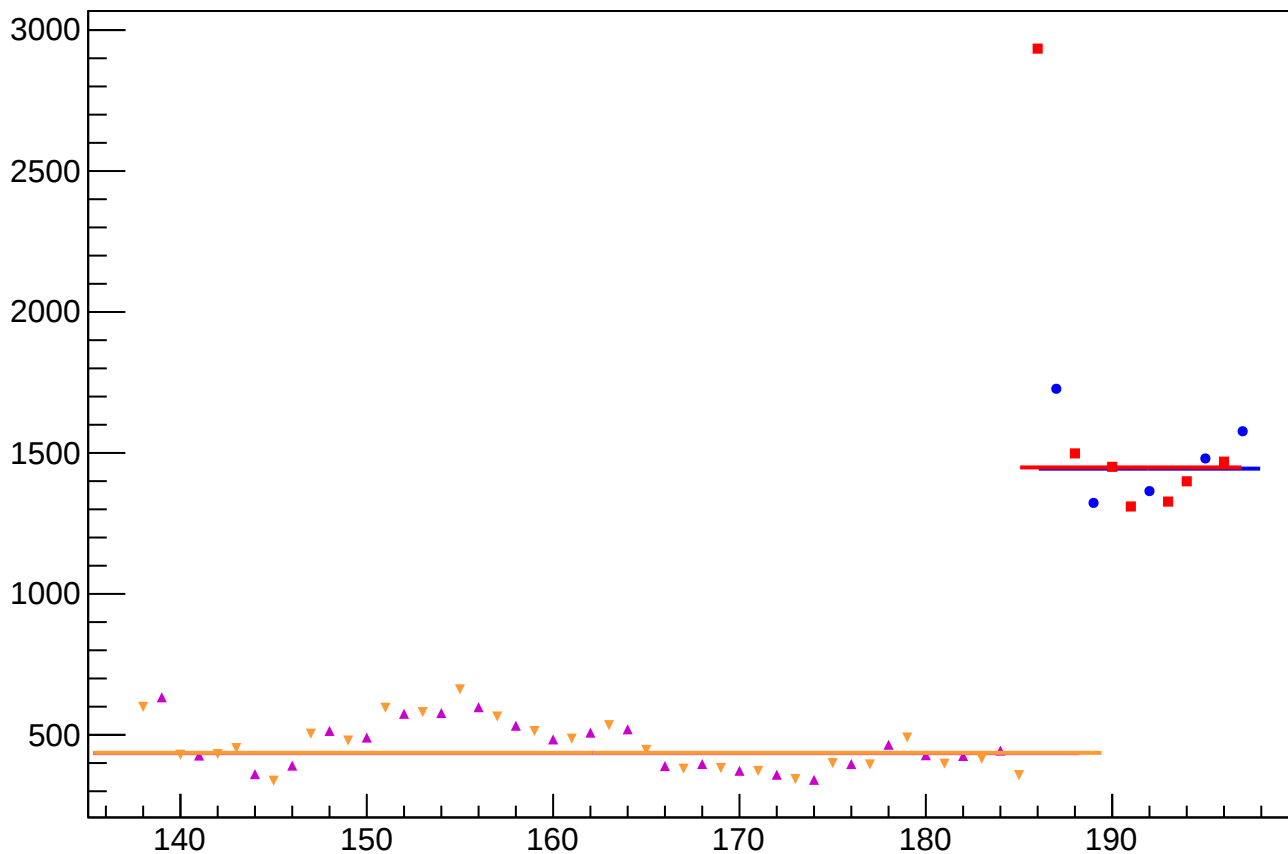
Right: -193.705 $\pm$ 541.912 χ^2 /NDF: 12.2/11

In: -63.395 $\pm$ 105.079 χ^2 /NDF:28.3/27

Out: 472.137 $\pm$ 102.405 χ^2 /NDF:78.0/31

All: 211.272 $\pm$ 73.339 χ^2 /NDF: 119.6/59

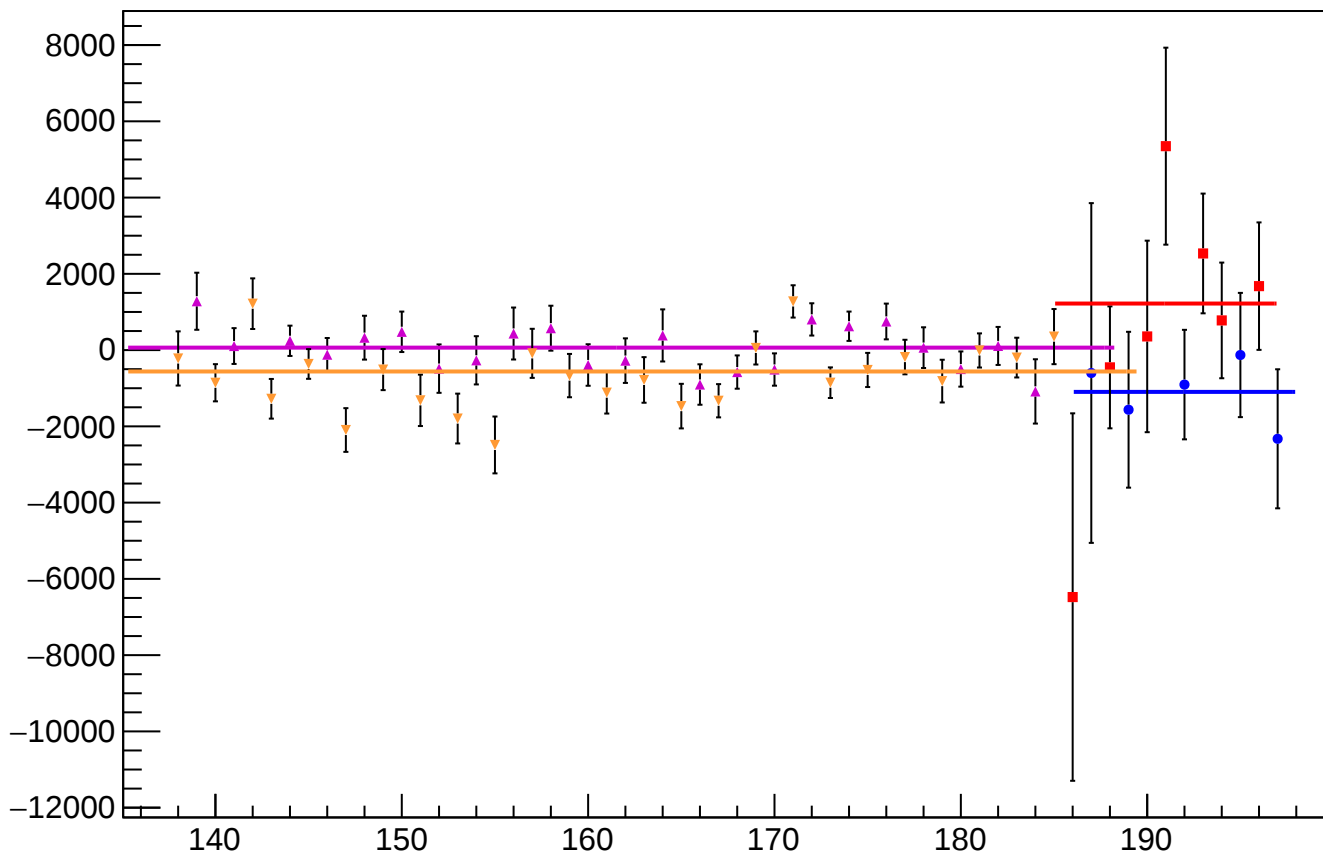
asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1444.381+/-0.586 χ^2/NDF : 32983.7/4
 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: 1446.792+/-0.383 χ^2/NDF : 246227.9/11
 In: 451.513+/-0.074 χ^2/NDF : 3980992.2/27
 Out: 456.979+/-0.072 χ^2/NDF : 5303062.2/31
 All: 454.317+/-0.052 χ^2/NDF : 9286829.9/59

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1096.003 ± 829.806 $\chi^2/\text{NDF}: 0.9/4$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 1220.921 ± 717.809 $\chi^2/\text{NDF}: 7.2/6$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

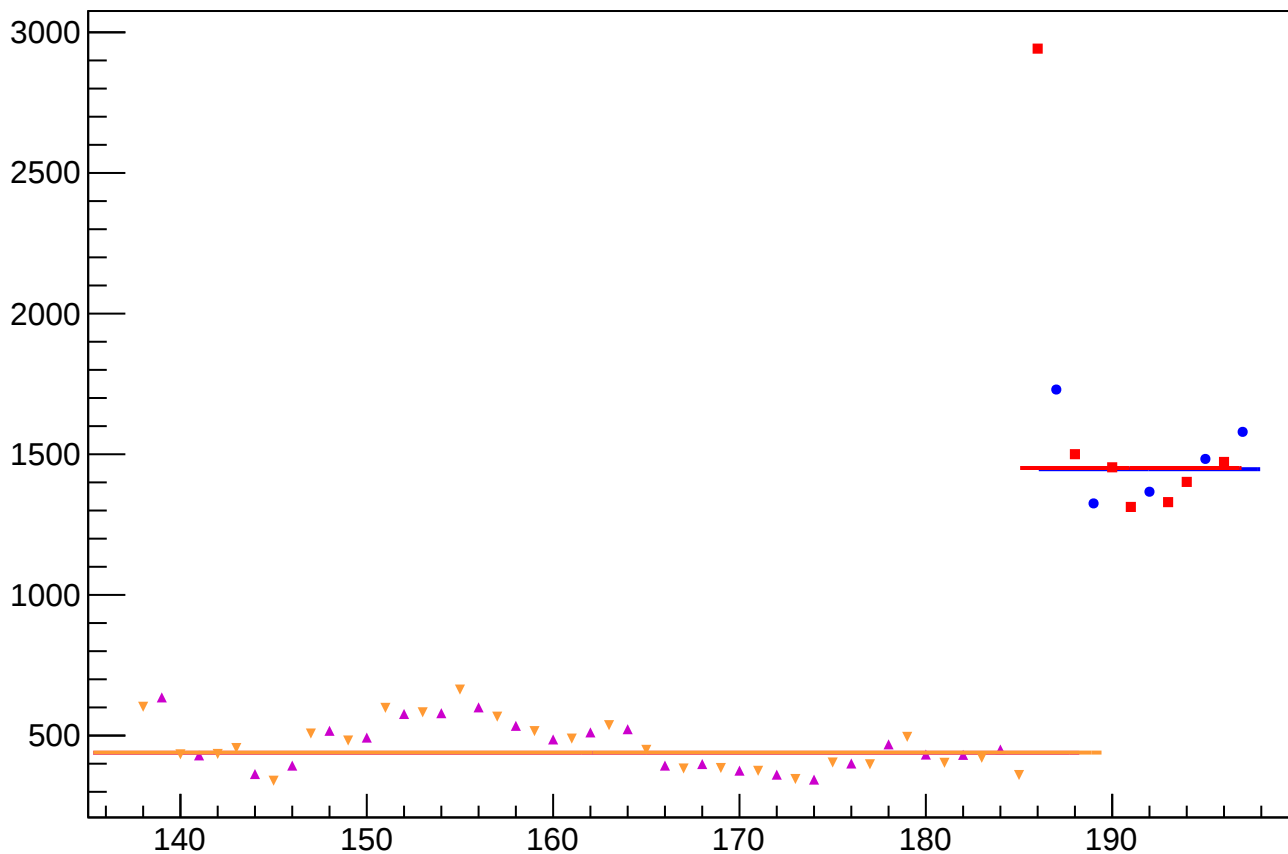
Right: 229.255 ± 542.879 $\chi^2/\text{NDF}: 12.5/11$

In: 45.714 ± 105.836 $\chi^2/\text{NDF}: 28.0/27$

Out: -523.911 ± 103.126 $\chi^2/\text{NDF}: 75.0/31$

All: -246.484 ± 73.861 $\chi^2/\text{NDF}: 117.8/59$

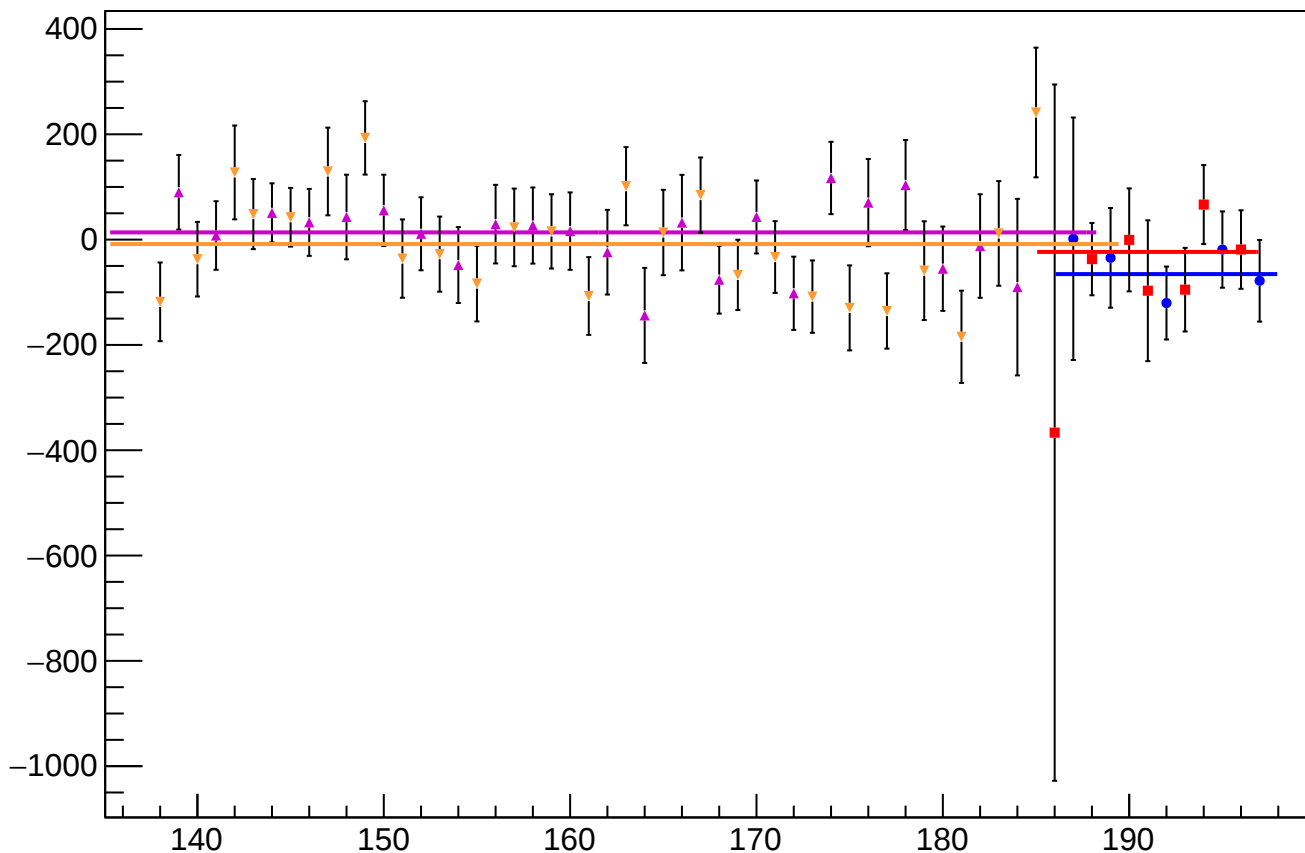
asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1446.917 $\pm$ 0.587 χ^2/NDF : 32990.5/4
 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: 1449.366 $\pm$ 0.384 χ^2/NDF : 246493.8/11
 In: 454.951 $\pm$ 0.075 χ^2/NDF : 3951382.3/27
 Out: 460.408 $\pm$ 0.073 χ^2/NDF : 5267580.8/31
 All: 457.750 $\pm$ 0.052 χ^2/NDF : 9221690.7/59

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -65.489 ± 37.909 χ^2/NDF : 1.3/4

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: -23.379 ± 33.505 χ^2/NDF : 2.9/6

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

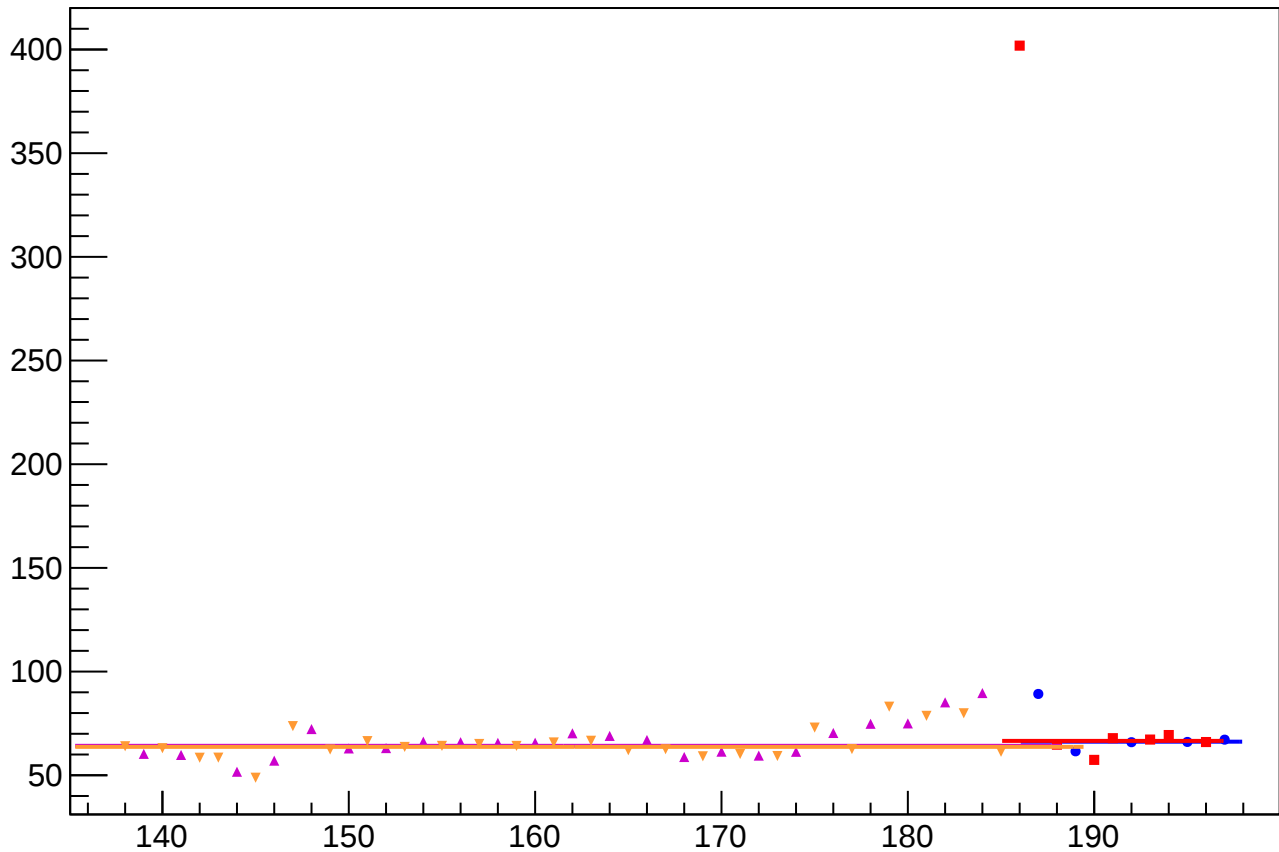
Right: -41.847 ± 25.105 χ^2/NDF : 4.9/11

In: 2.405 ± 14.330 χ^2/NDF : 21.3/27

Out: -10.896 ± 13.641 χ^2/NDF : 44.7/31

All: -4.573 ± 9.880 χ^2/NDF : 66.4/59

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 66.194 $\pm$ 0.027 χ^2 /NDF: 25155.6/4

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

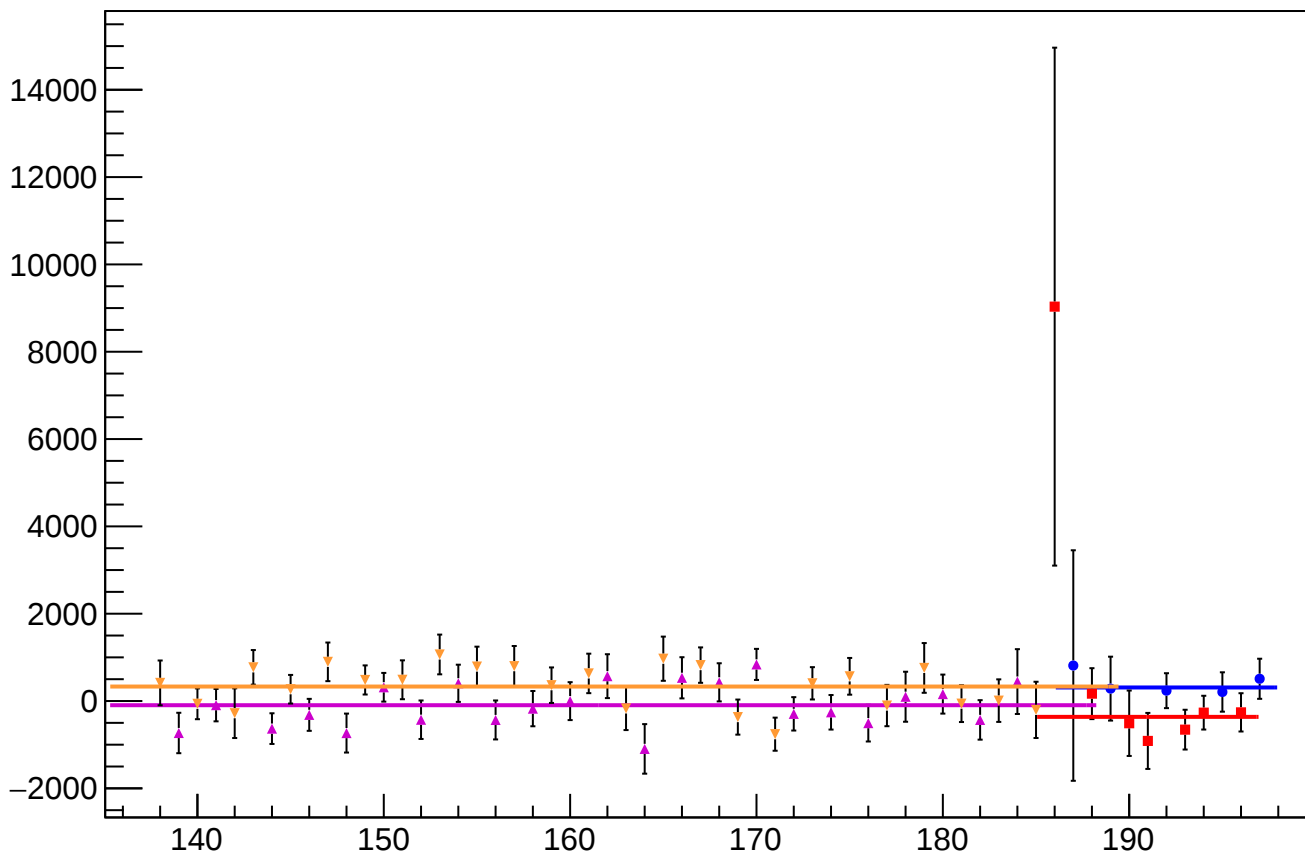
Right: 66.405 $\pm$ 0.018 χ^2 /NDF: 561767.0/11

In: 64.476 $\pm$ 0.010 χ^2 /NDF: 459622.8/27

Out: 64.172 $\pm$ 0.010 χ^2 /NDF: 997219.3/31

All: 64.317 $\pm$ 0.007 χ^2 /NDF: 1457312.1/59

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 310.390 ± 236.214 $\chi^2/NDF: 0.3/4$

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 $\chi^2/NDF: 70.5/47$

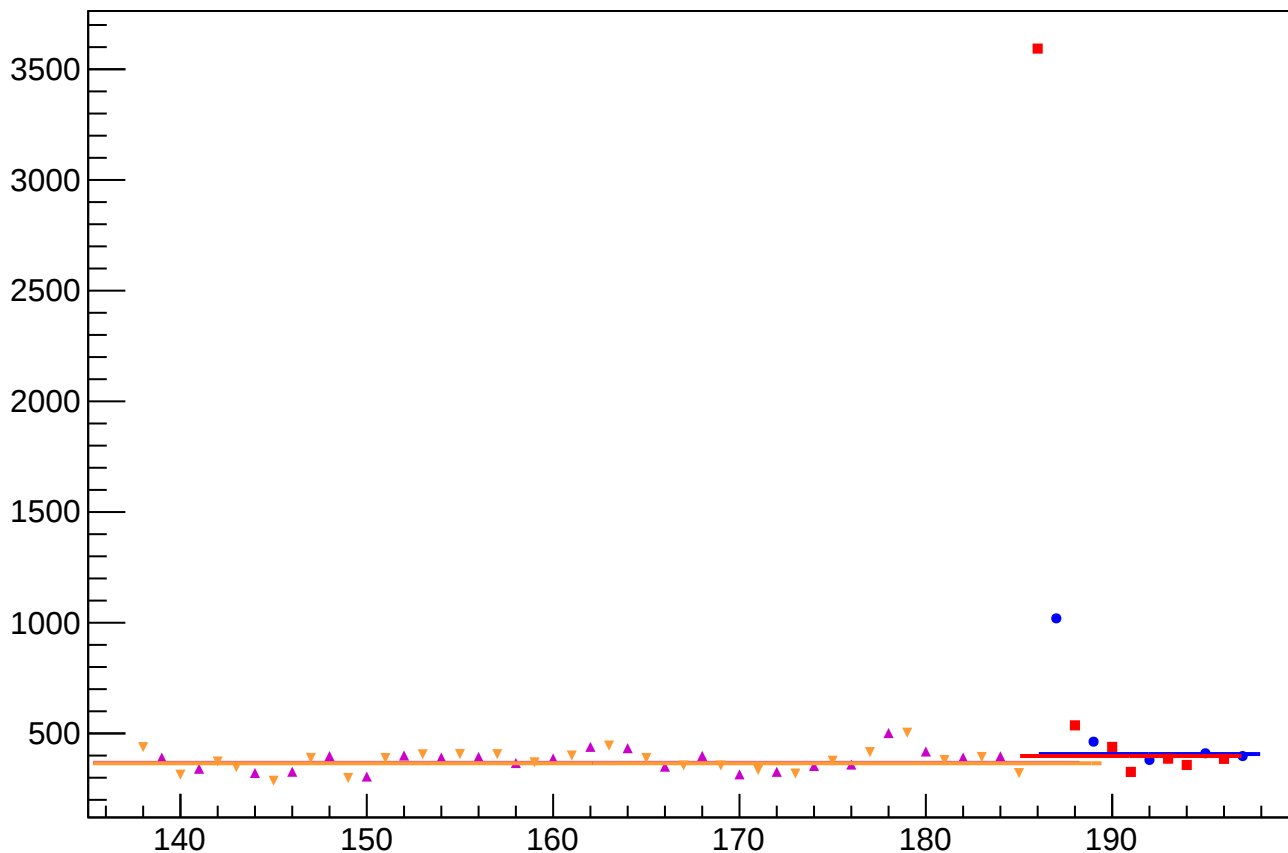
Right: -74.222 ± 154.647 $\chi^2/NDF: 9.6/11$

In: -45.743 ± 83.002 $\chi^2/NDF: 31.6/27$

Out: 227.305 ± 79.336 $\chi^2/NDF: 44.3/31$

All: 96.945 ± 57.351 $\chi^2/NDF: 81.6/59$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 406.864 $\pm$ 0.167 χ^2 /NDF: 129225.9/4

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 398.089 $\pm$ 0.145 χ^2 /NDF: 749369.9/6

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

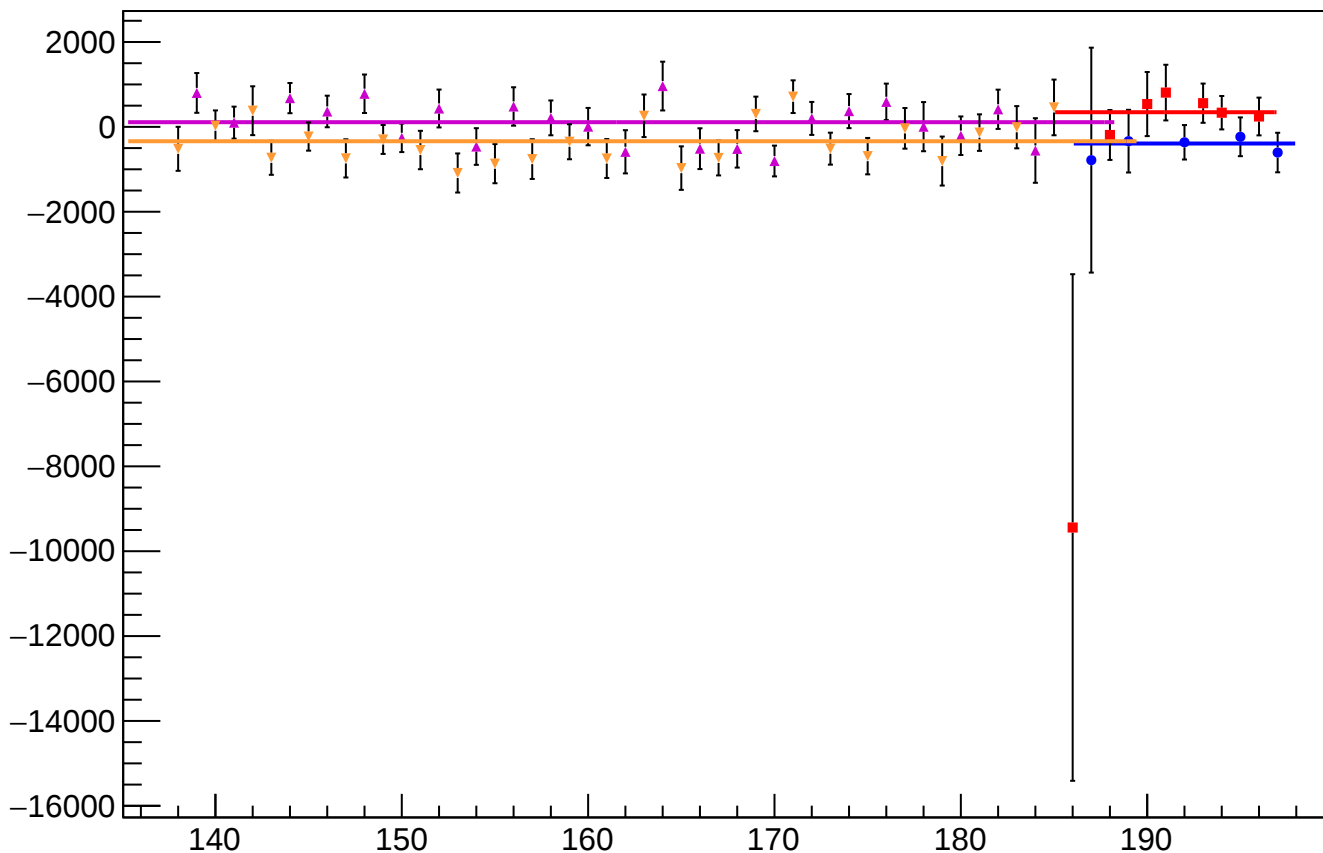
Right: 401.850 $\pm$ 0.109 χ^2 /NDF: 880172.7/11

In: 371.856 $\pm$ 0.059 χ^2 /NDF: 657424.8/27

Out: 370.278 $\pm$ 0.056 χ^2 /NDF: 1411323.6/31

All: 371.031 $\pm$ 0.041 χ^2 /NDF: 2069126.3/59

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -392.104 ± 239.460 χ^2/NDF : 0.4/4

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 345.299 ± 207.756 χ^2/NDF : 4.3/6

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

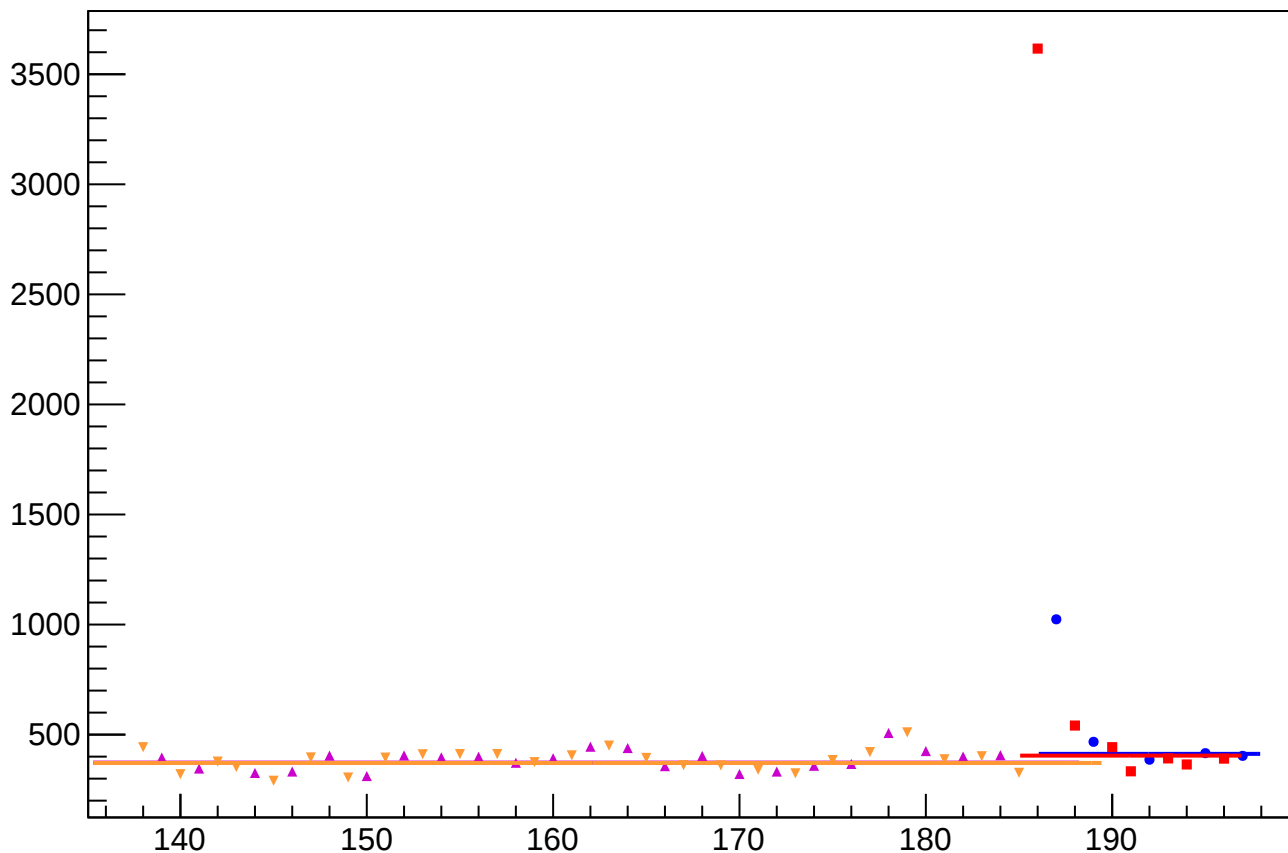
Right: 28.612 ± 156.926 χ^2/NDF : 10.1/11

In: 48.049 ± 84.315 χ^2/NDF : 33.4/27

Out: -235.604 ± 80.601 χ^2/NDF : 41.8/31

All: -100.162 ± 58.262 χ^2/NDF : 81.1/59

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 412.602 $\pm$ 0.169 χ^2 /NDF: 126716.6/4

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

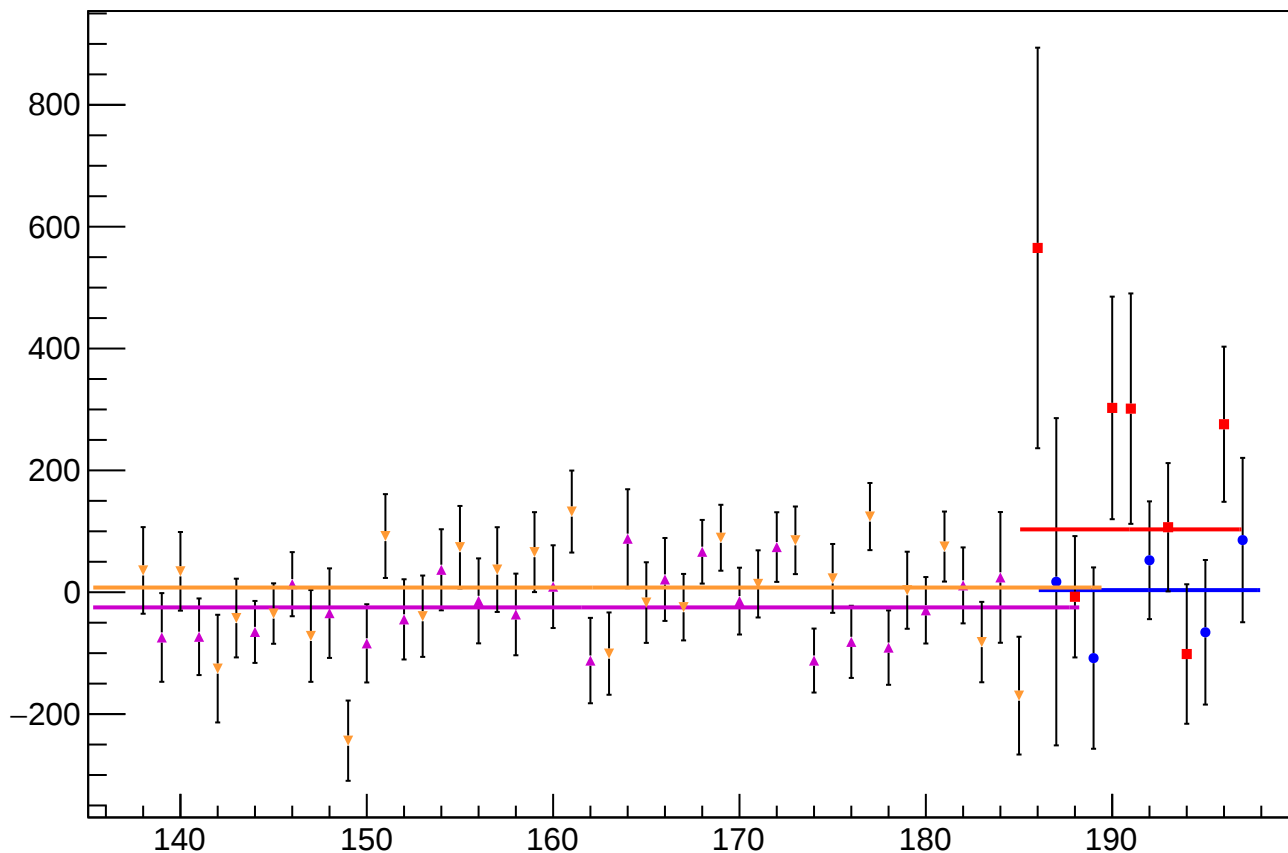
Right: 408.032 $\pm$ 0.111 χ^2 /NDF: 868034.8/11

In: 377.855 $\pm$ 0.060 χ^2 /NDF: 642127.7/27

Out: 376.358 $\pm$ 0.057 χ^2 /NDF: 1387591.4/31

All: 377.073 $\pm$ 0.041 χ^2 /NDF: 2030048.6/59

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 3.471+/-58.522 χ^2/NDF : 1.5/4

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

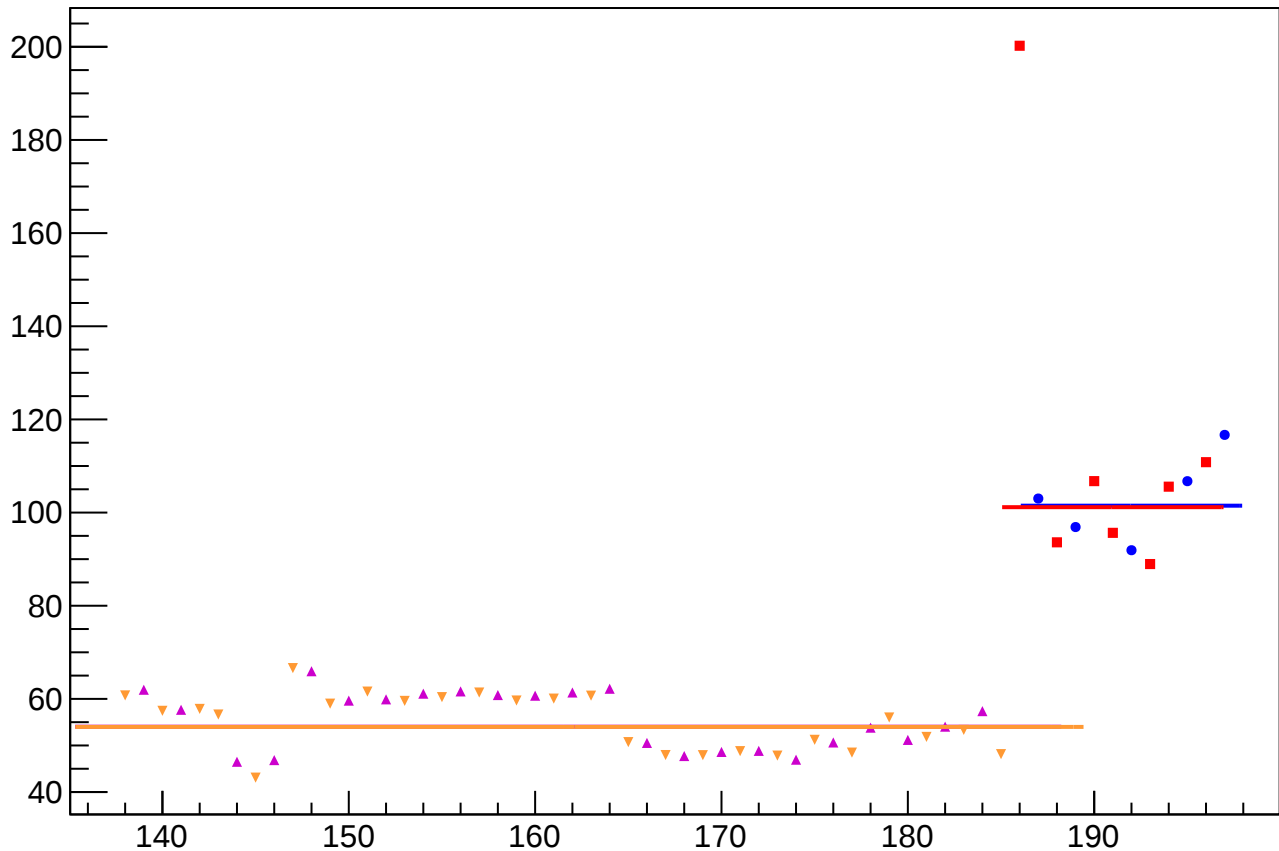
Right: 60.859+/-38.119 χ^2/NDF : 13.7/11

In: -23.548+/-12.717 χ^2/NDF :21.5/27

Out: 13.418+/-12.272 χ^2/NDF :59.3/31

All: -4.407+/-8.831 χ^2/NDF : 85.2/59

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 101.481 $\pm$ 0.041 χ^2 /NDF: 50861.1/4

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

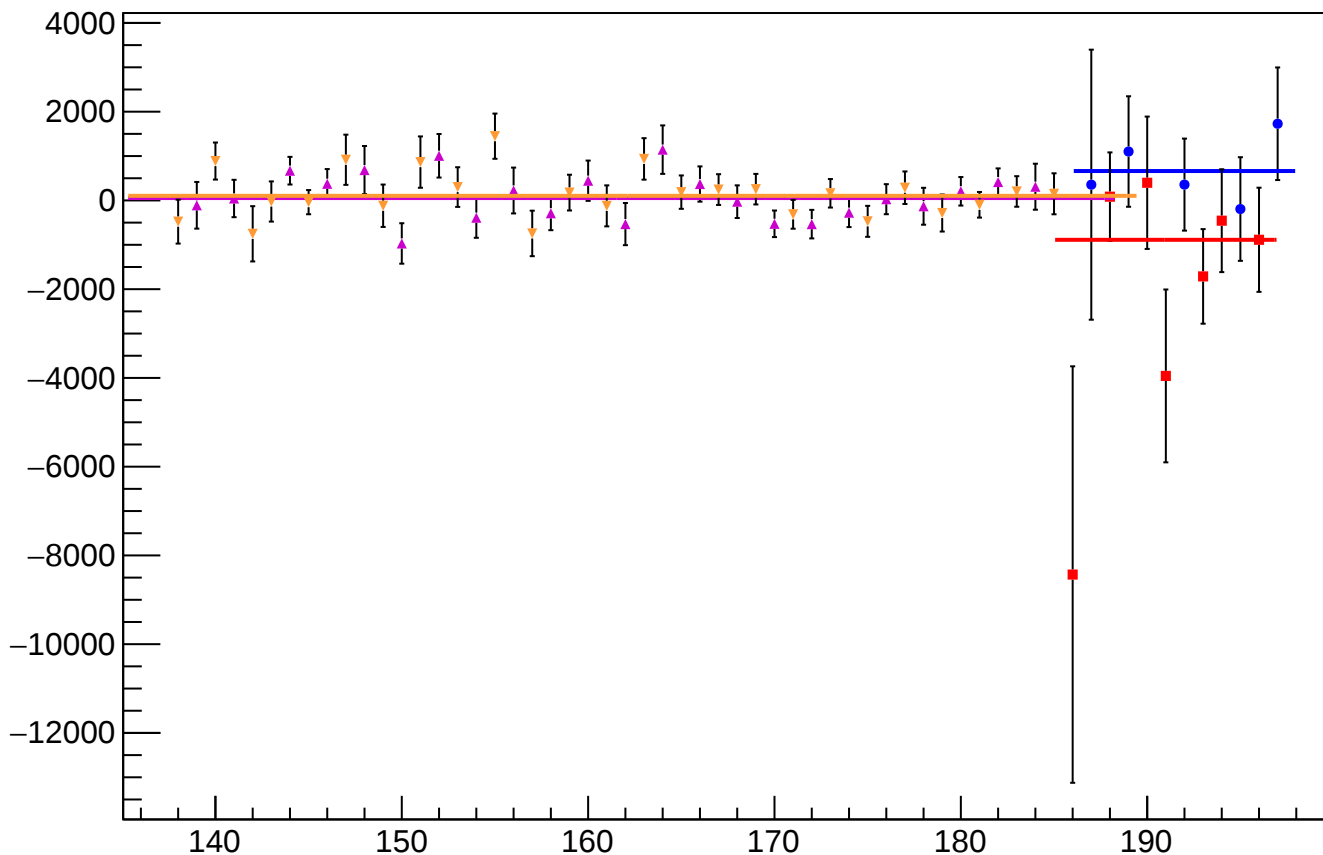
Right: 101.295 $\pm$ 0.027 χ^2 /NDF: 288941.1/11

In: 56.269 $\pm$ 0.009 χ^2 /NDF: 1747575.2/27

Out: 56.799 $\pm$ 0.009 χ^2 /NDF: 2355315.1/31

All: 56.543 $\pm$ 0.006 χ^2 /NDF: 4104690.0/59

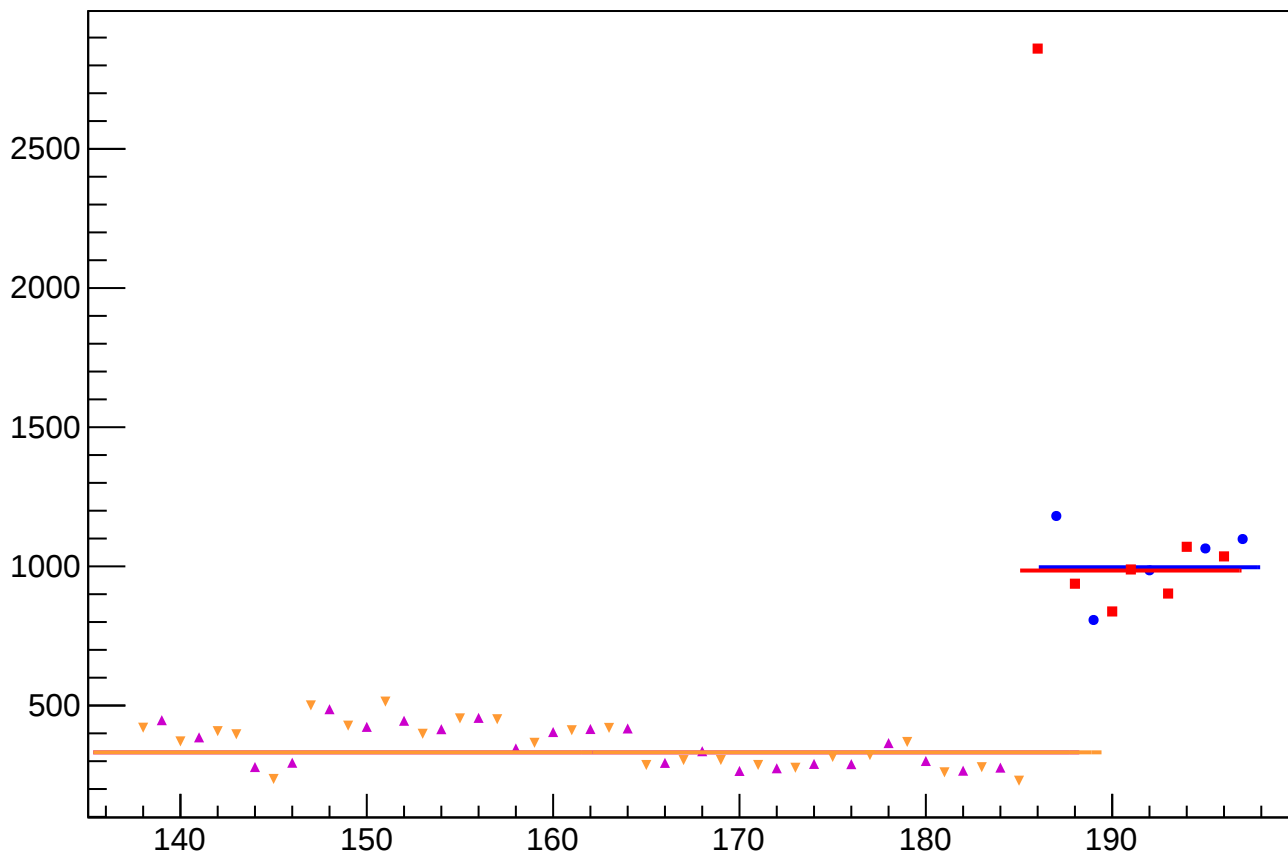
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 662.473 $\pm$ 573.745 χ^2 /NDF: 1.5/4
 Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24
 Right Out: -887.633 $\pm$ 493.026 χ^2 /NDF: 7.5/6
 Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47
 Right: -229.203 $\pm$ 373.932 χ^2 /NDF: 13.2/11
 In: 65.451 $\pm$ 80.400 χ^2 /NDF:36.7/27
 Out: 78.739 $\pm$ 78.336 χ^2 /NDF:42.4/31
 All: 72.268 $\pm$ 56.107 χ^2 /NDF: 79.1/59

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 996.811 $\pm$ 0.406 χ^2 /NDF: 73337.9/4

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

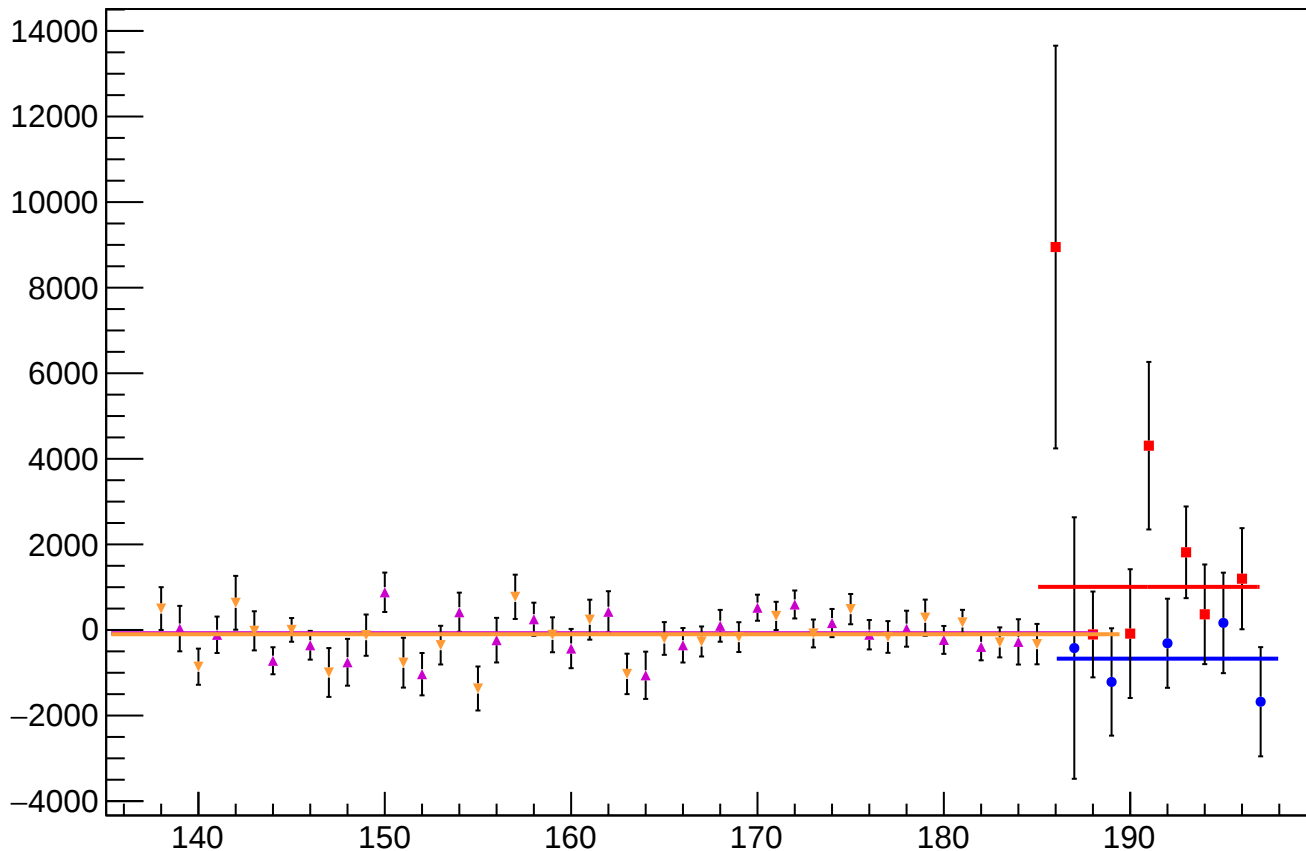
Right: 990.046 $\pm$ 0.264 χ^2 /NDF: 443784.7/11

In: 344.727 $\pm$ 0.057 χ^2 /NDF: 4011724.5/27

Out: 348.263 $\pm$ 0.055 χ^2 /NDF: 5504508.2/31

All: 346.541 $\pm$ 0.040 χ^2 /NDF: 9518216.8/59

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -670.466+/-576.961 χ^2/NDF : 1.4/4

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

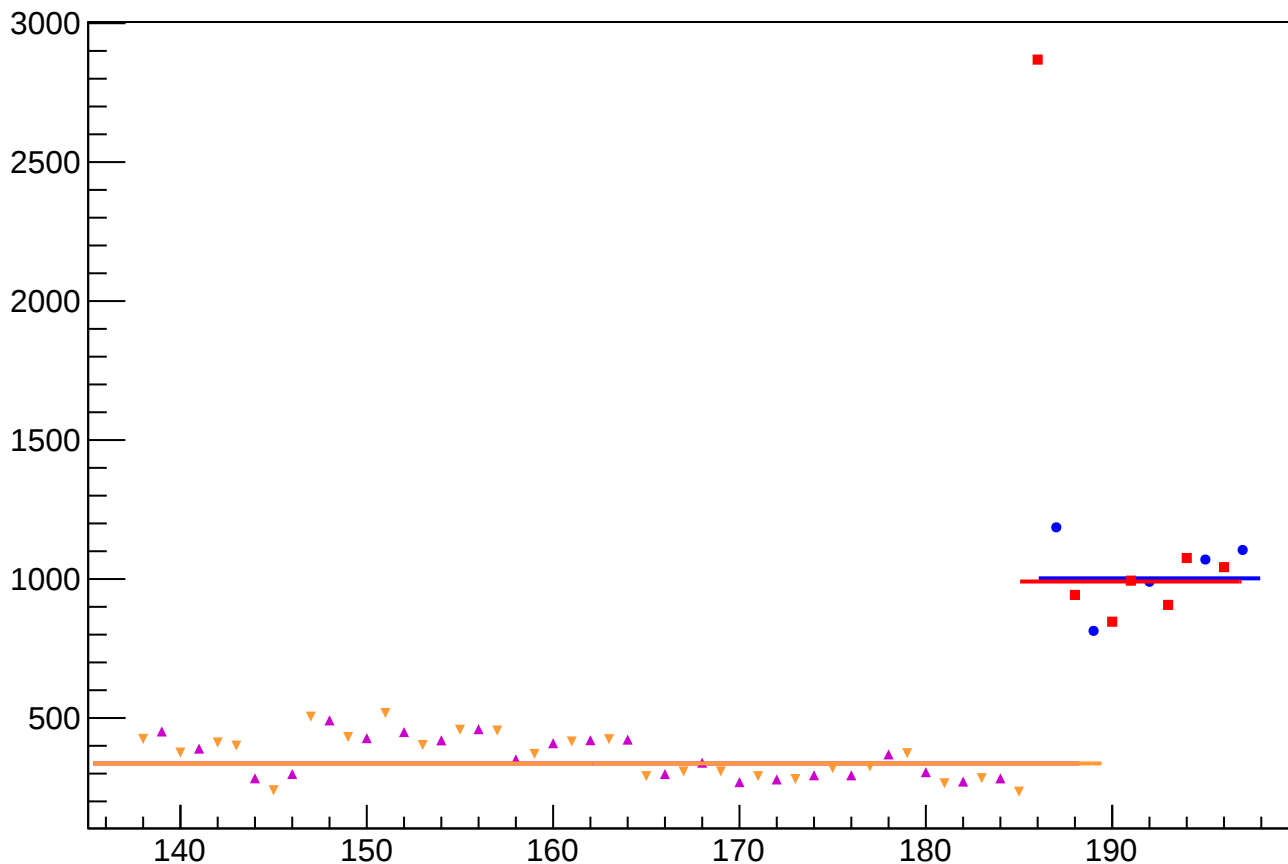
Right: 294.397+/-376.080 χ^2/NDF : 14.6/11

In: -87.447+/-81.493 χ^2/NDF :34.6/27

Out: -71.414+/-79.391 χ^2/NDF :43.9/31

All: -79.221+/-56.866 χ^2/NDF : 78.4/59

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 1002.478+/-0.408 χ^2/NDF : 72326.6/4

Left Out: 336.557+/-0.057 χ^2/NDF : 1665919.4/24

Right Out: 991.036+/-0.351 χ^2/NDF : 368173.8/6

Left In: 336.439+/-0.058 χ^2/NDF : 1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

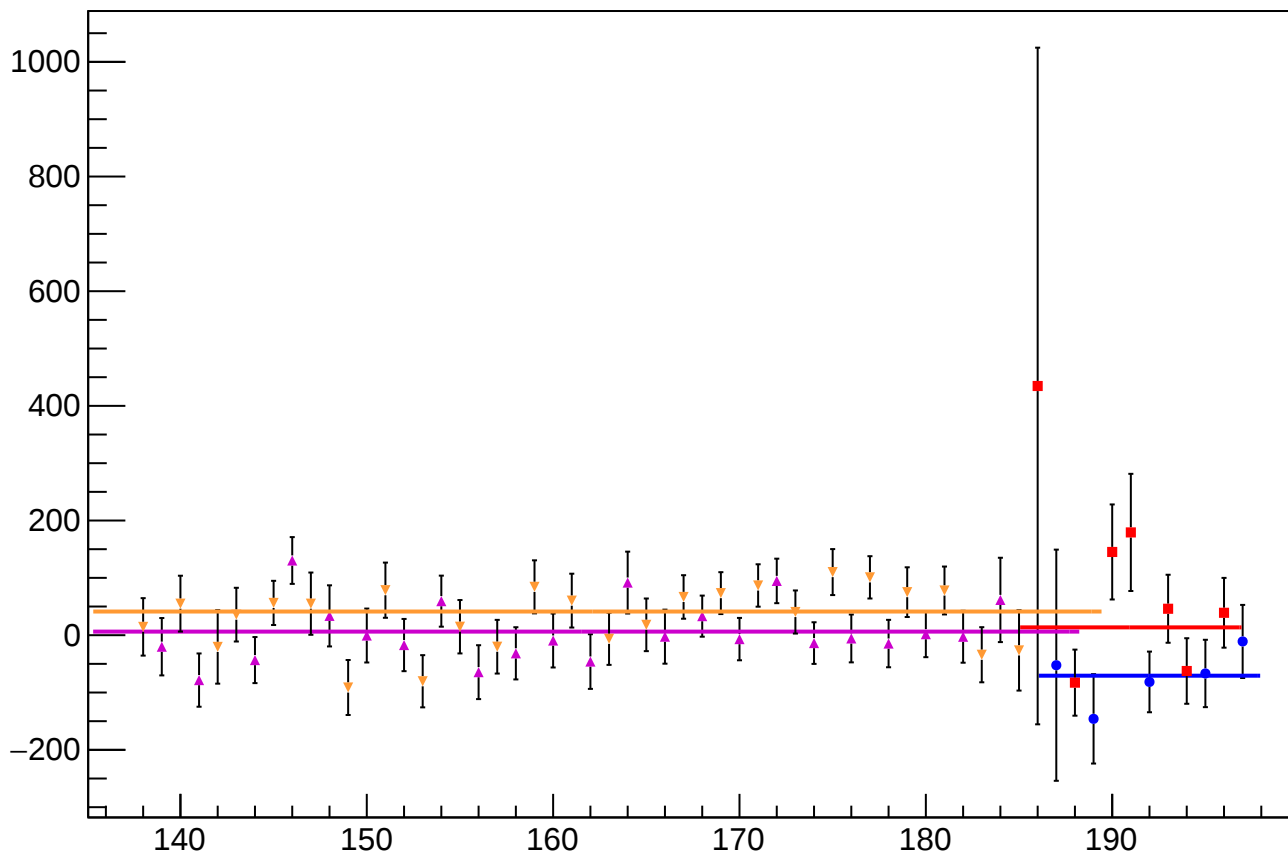
Right: 995.897+/-0.266 χ^2/NDF : 440952.8/11

In: 349.727+/-0.058 χ^2/NDF : 3953460.7/27

Out: 353.331+/-0.056 χ^2/NDF : 5428319.5/31

All: 351.576+/-0.040 χ^2/NDF : 9383787.1/59

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -70.646 ± 30.401 χ^2/NDF : 1.9/4

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

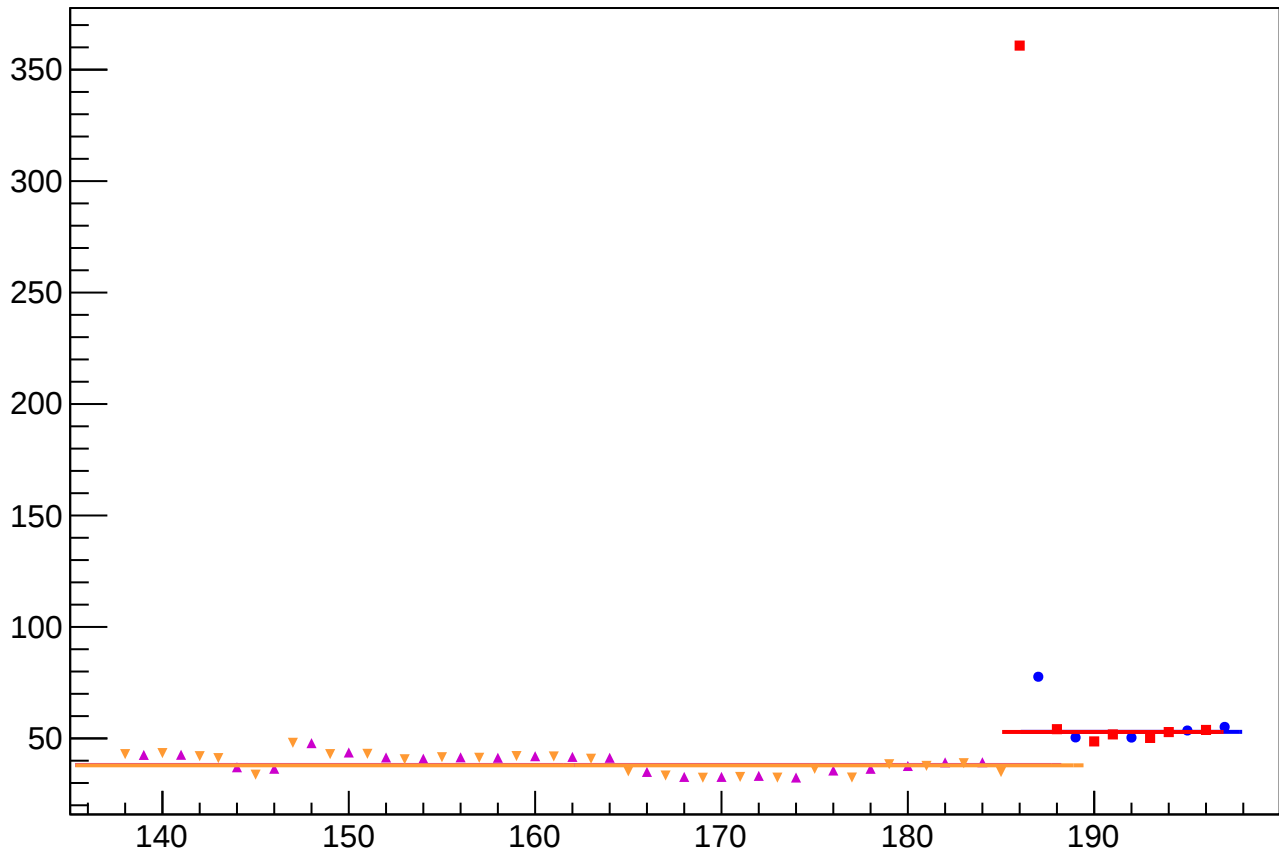
Right: -23.025 ± 20.049 χ^2/NDF : 16.9/11

In: -0.165 ± 8.783 χ^2/NDF : 38.0/27

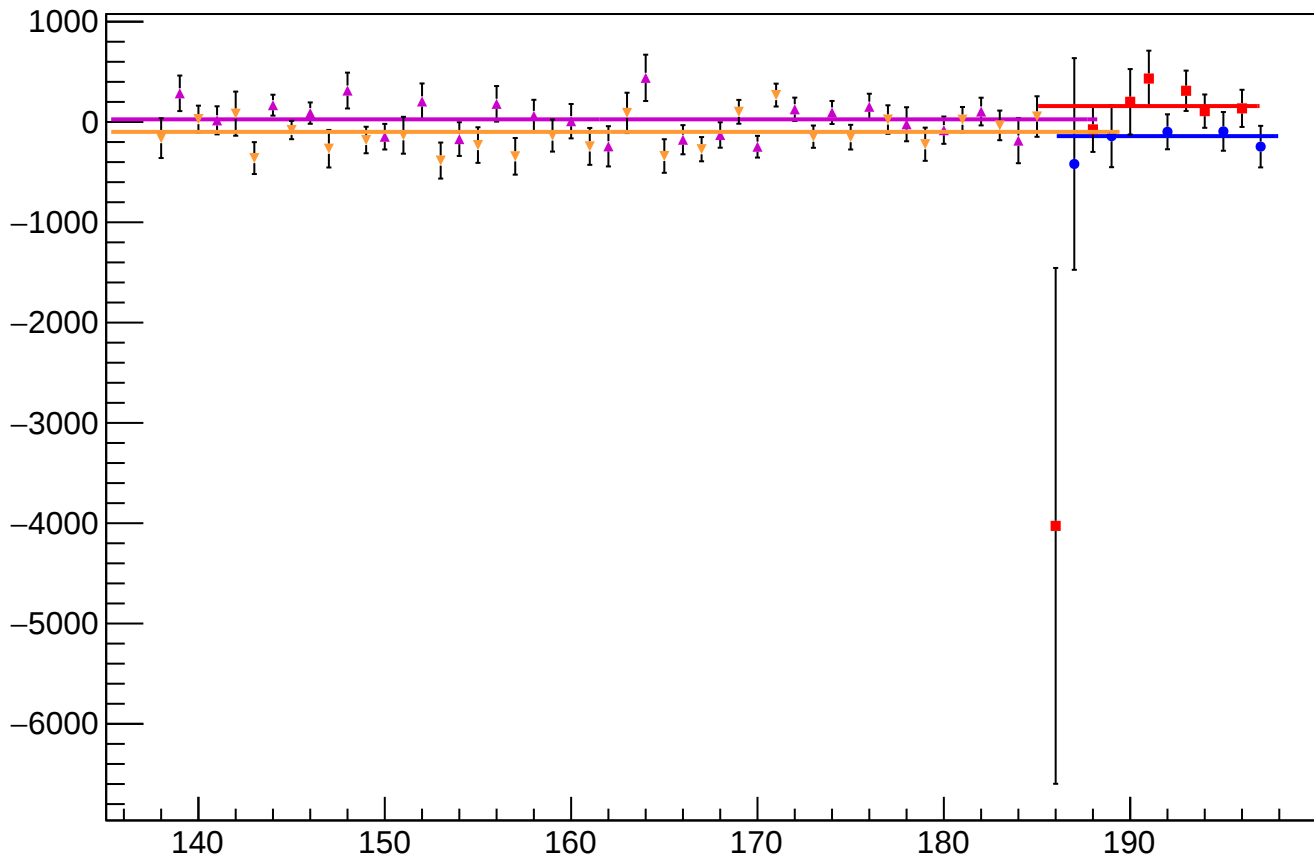
Out: 38.518 ± 8.433 χ^2/NDF : 46.0/31

All: 19.963 ± 6.083 χ^2/NDF : 94.1/59

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -141.029+/-102.906 χ^2/NDF : 0.4/4

Left Out: -98.741+/-29.095 χ^2/NDF : 32.7/24

Right Out: 158.590+/-86.880 χ^2/NDF : 5.4/6

Left In: 26.223+/-29.676 χ^2/NDF : 30.7/22

Left: -37.493+/-20.776 χ^2/NDF : 72.5/47

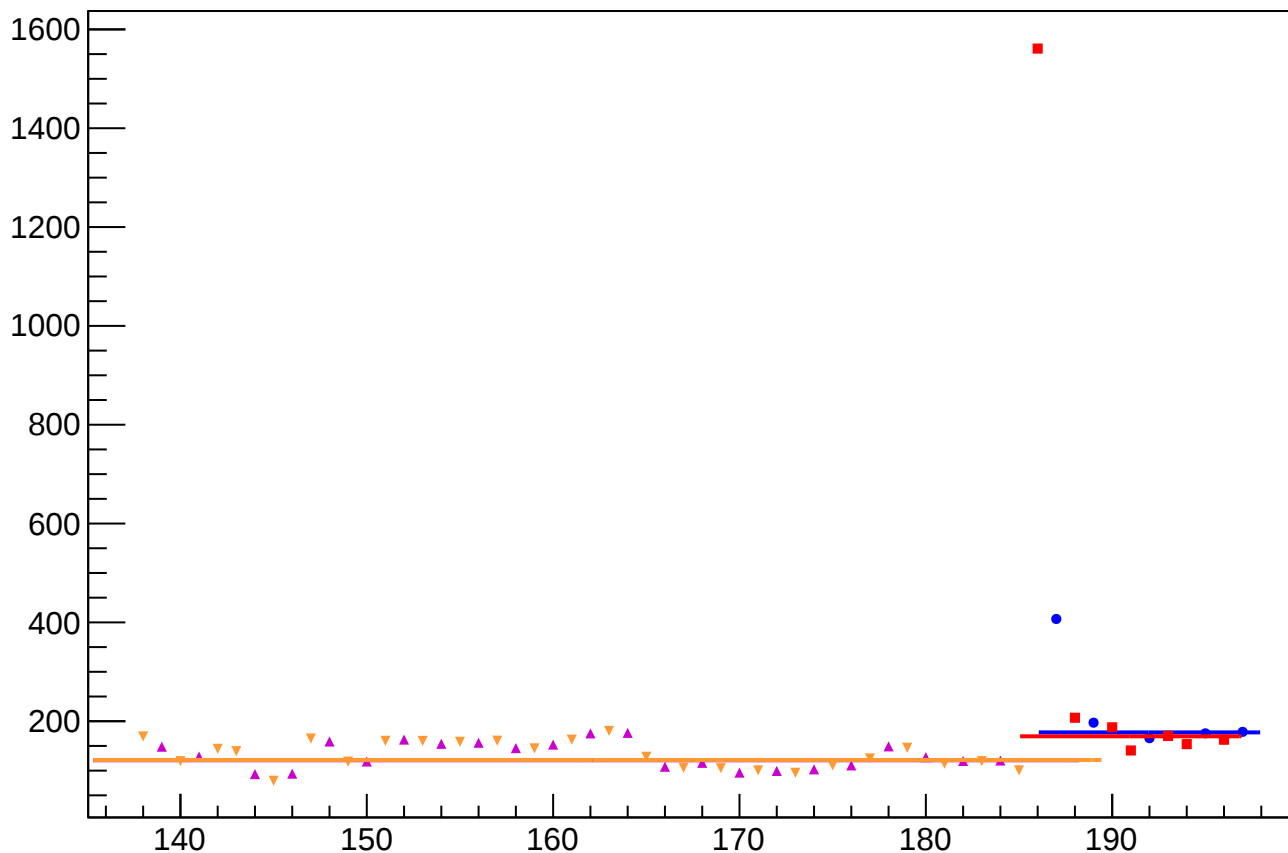
Right: 33.902+/-66.385 χ^2/NDF : 10.8/11

In: 13.382+/-28.514 χ^2/NDF : 33.6/27

Out: -72.791+/-27.589 χ^2/NDF : 46.0/31

All: -31.124+/-19.827 χ^2/NDF : 84.3/59

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected

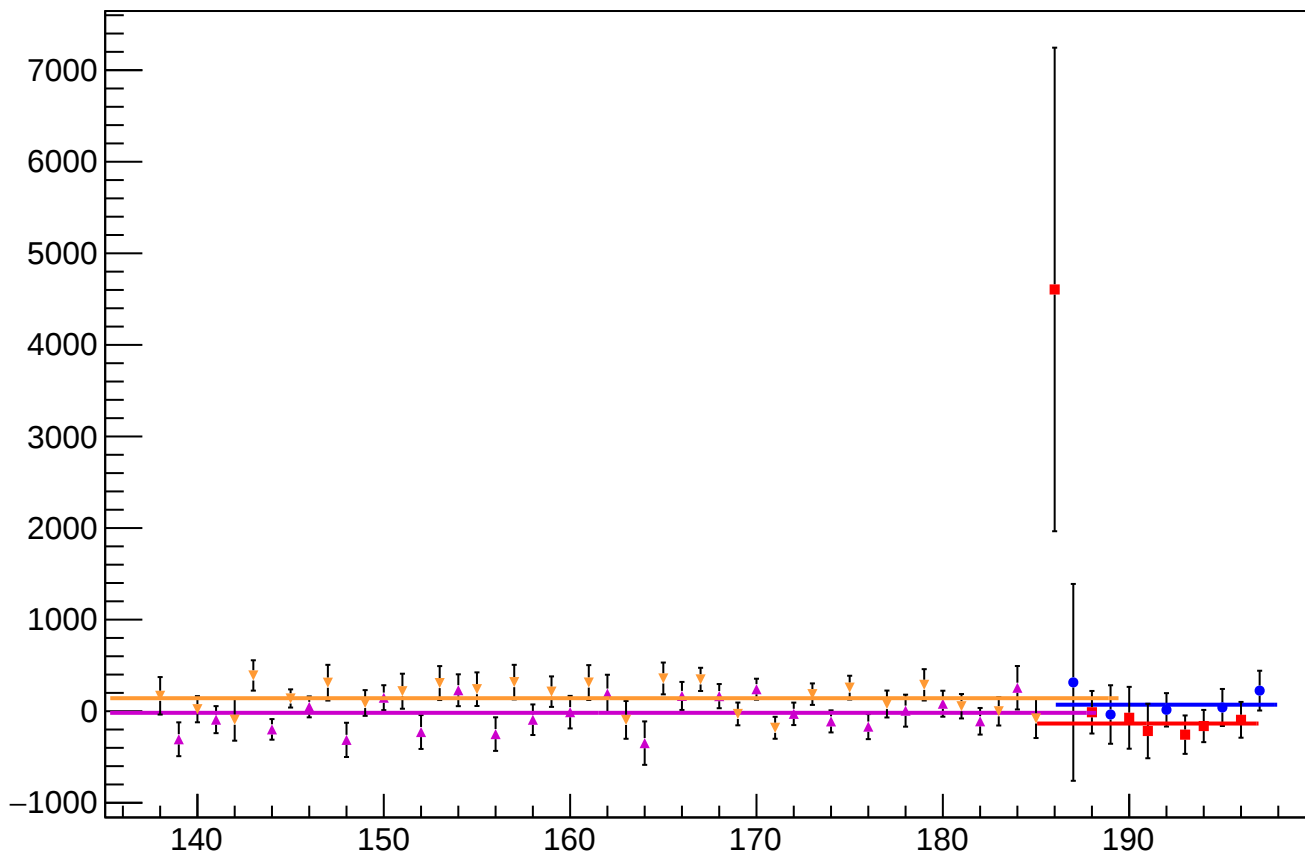


Right In: 177.364 $\pm$ 0.073 χ^2 /NDF: 112129.7/4
 Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24
 Right Out: 169.454 $\pm$ 0.061 χ^2 /NDF: 690472.5/6
 Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47
 Right: 172.746 $\pm$ 0.047 χ^2 /NDF: 809500.2/11
 In: 125.260 $\pm$ 0.020 χ^2 /NDF:2050360.1/27
 Out: 126.419 $\pm$ 0.020 χ^2 /NDF:2947672.2/31

All: 125.858 $\pm$ 0.014 χ^2 /NDF: 4999737.9/59

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 71.027 $\pm$ 107.548 χ^2/NDF : 0.8/4

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

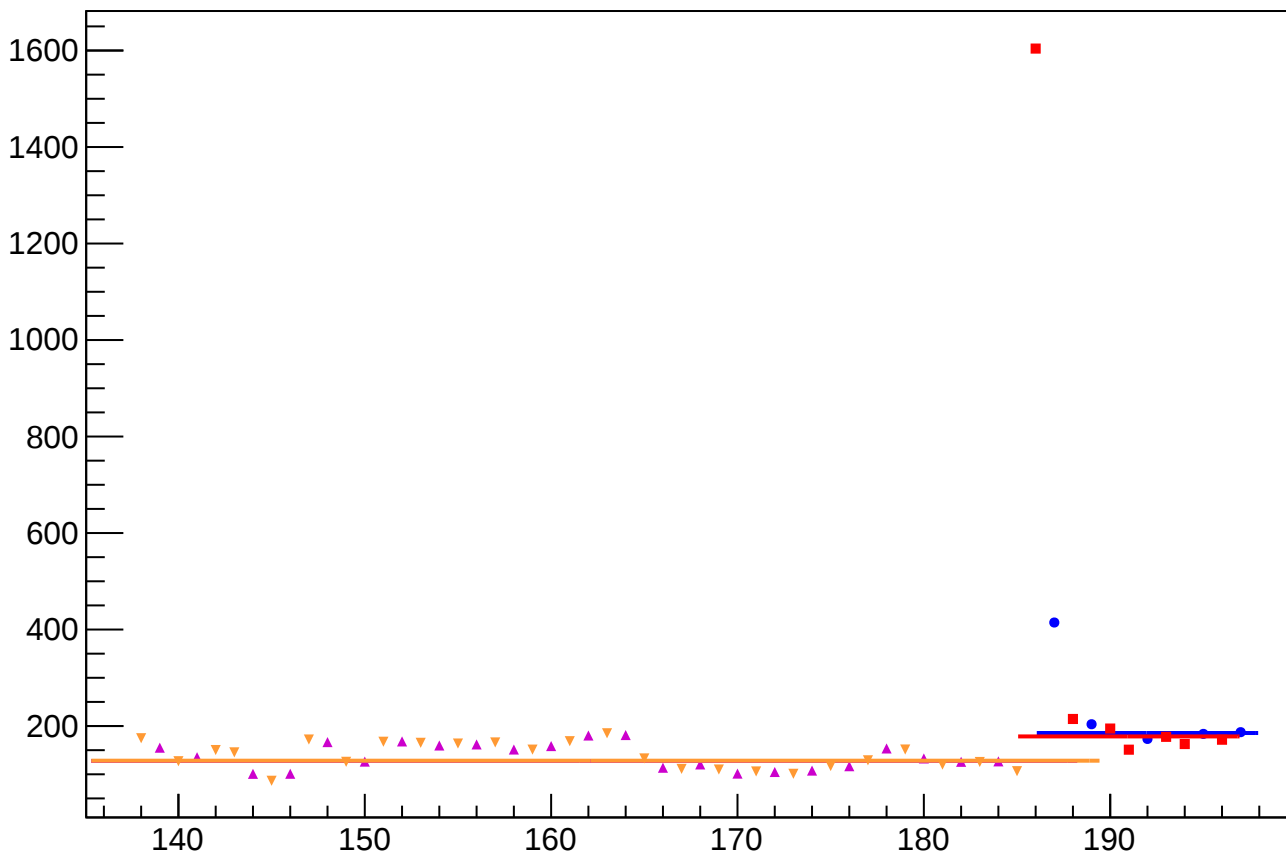
Right: -48.449 $\pm$ 69.601 χ^2/NDF : 6.9/11

In: -10.790 $\pm$ 29.972 χ^2/NDF :31.6/27

Out: 114.126 $\pm$ 28.992 χ^2/NDF :39.1/31

All: 53.745 $\pm$ 20.838 χ^2/NDF : 79.7/59

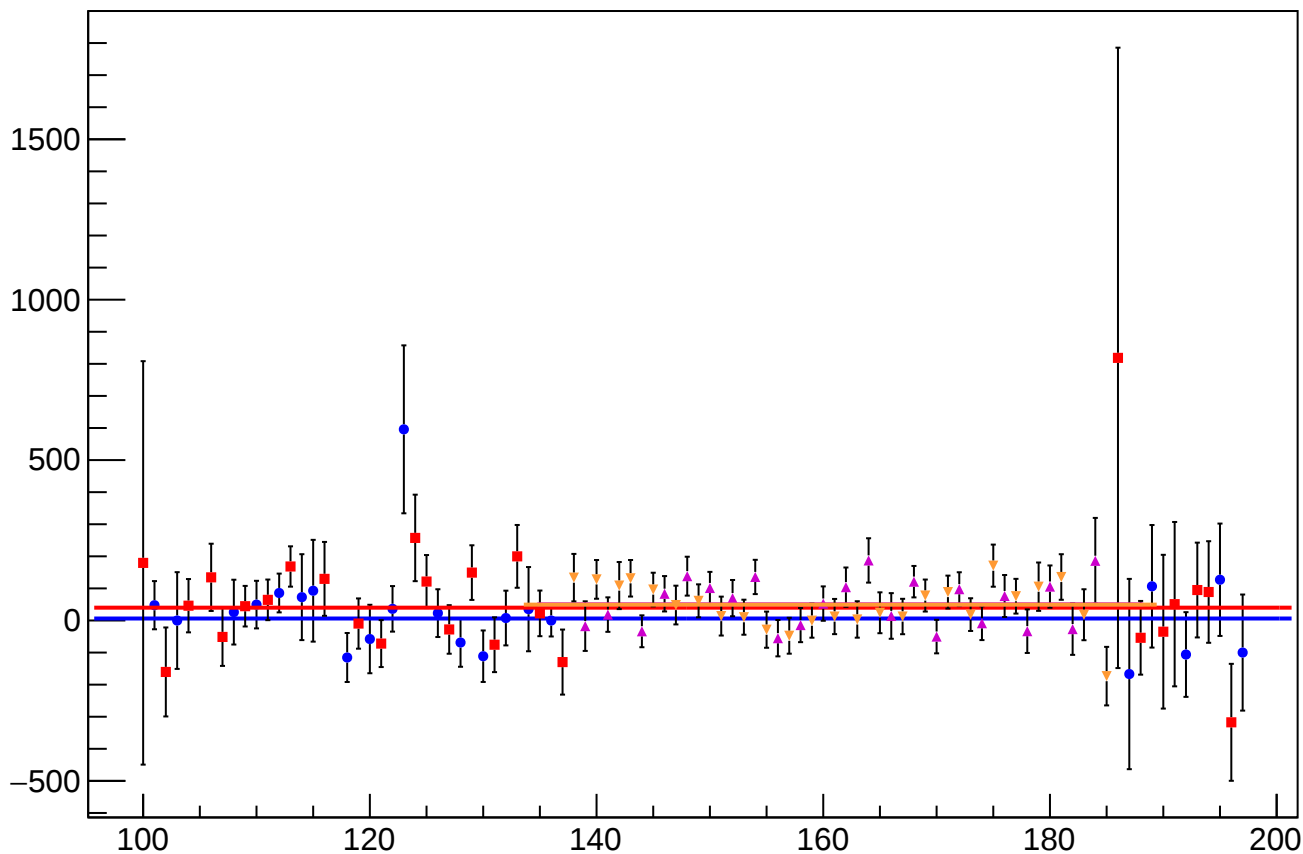
asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 185.554 $\pm$ 0.076 χ^2 /NDF: 106647.2/4
 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: 181.441 $\pm$ 0.049 χ^2 /NDF: 783448.3/11
 In: 132.049 $\pm$ 0.021 χ^2 /NDF:1879036.8/27
 Out: 133.247 $\pm$ 0.021 χ^2 /NDF:2750574.2/31
 All: 132.668 $\pm$ 0.015 χ^2 /NDF: 4631262.5/59

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 6.155 ± 19.561 $\chi^2/\text{NDF}: 16.5/21$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 39.948 ± 18.678 $\chi^2/\text{NDF}: 30.5/25$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

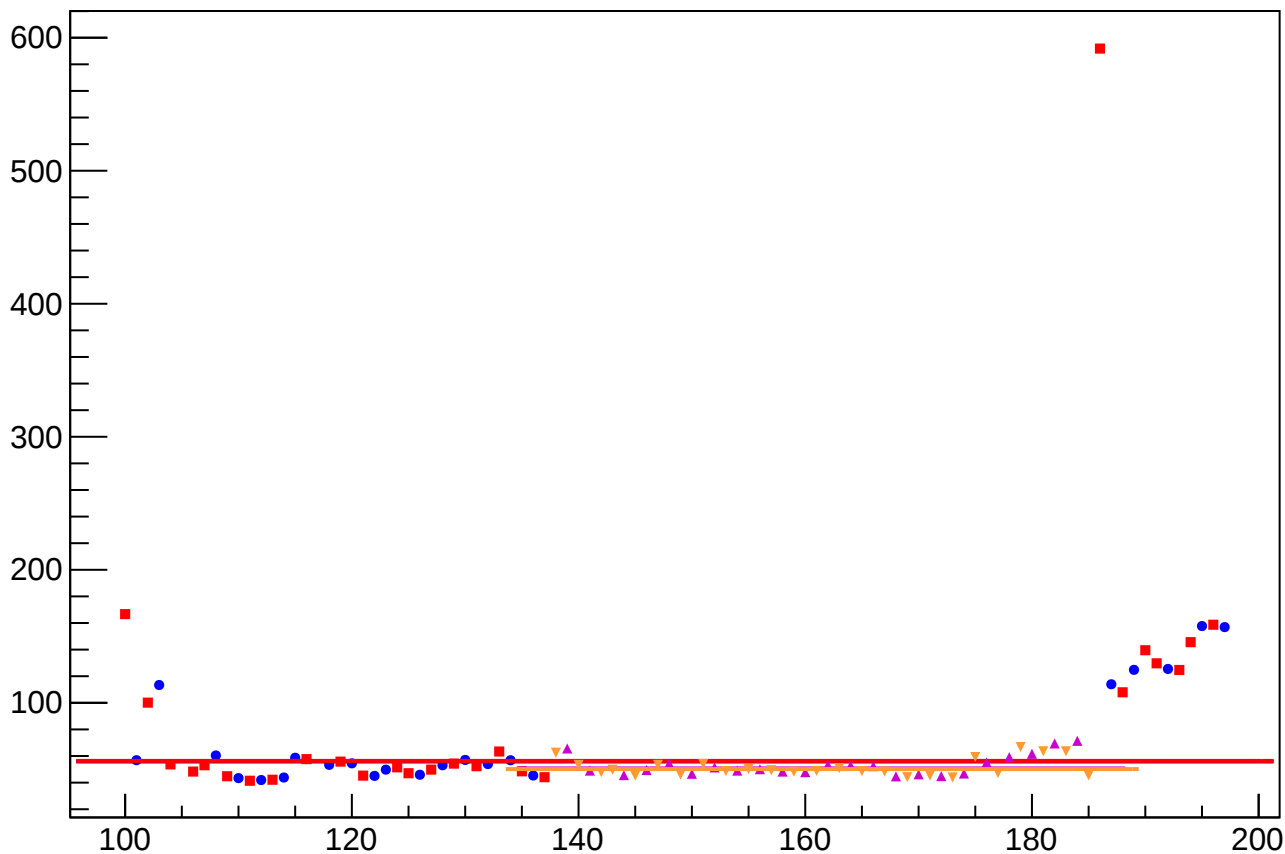
Right: 23.831 ± 13.509 $\chi^2/\text{NDF}: 48.6/47$

In: 37.881 ± 10.384 $\chi^2/\text{NDF}: 52.4/44$

Out: 46.703 ± 9.979 $\chi^2/\text{NDF}: 58.8/50$

All: 42.467 ± 7.195 $\chi^2/\text{NDF}: 111.5/95$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 55.911 $\pm$ 0.014 χ^2 /NDF: 2847707.4/21

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

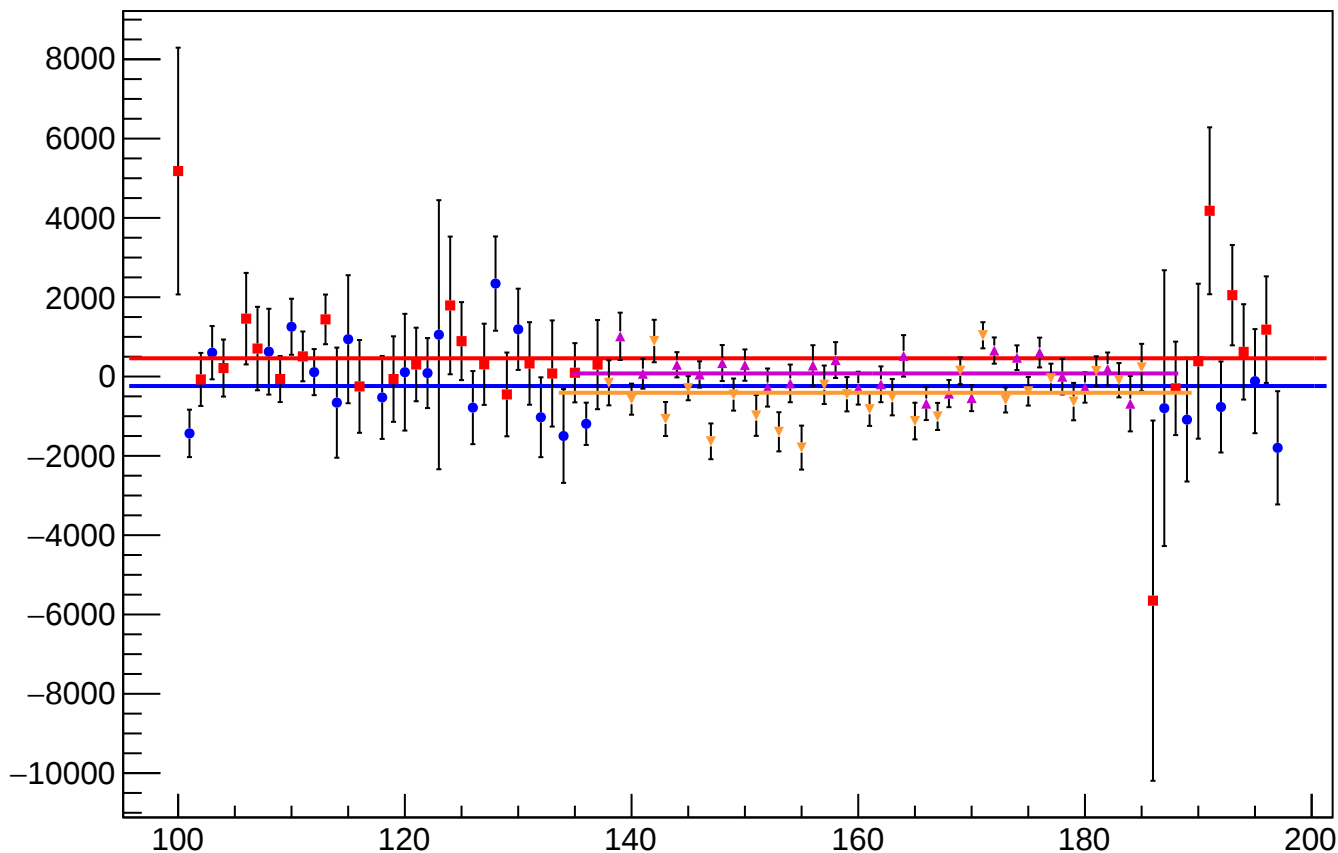
Right: 56.138 $\pm$ 0.010 χ^2 /NDF: 6678583.2/47

In: 52.157 $\pm$ 0.007 χ^2 /NDF: 3419612.8/44

Out: 51.947 $\pm$ 0.007 χ^2 /NDF: 4453272.5/50

All: 52.047 $\pm$ 0.005 χ^2 /NDF: 7873310.1/95

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -239.420 ± 200.583 χ^2/NDF : 25.8/21

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 460.347 ± 191.931 χ^2/NDF : 16.9/25

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

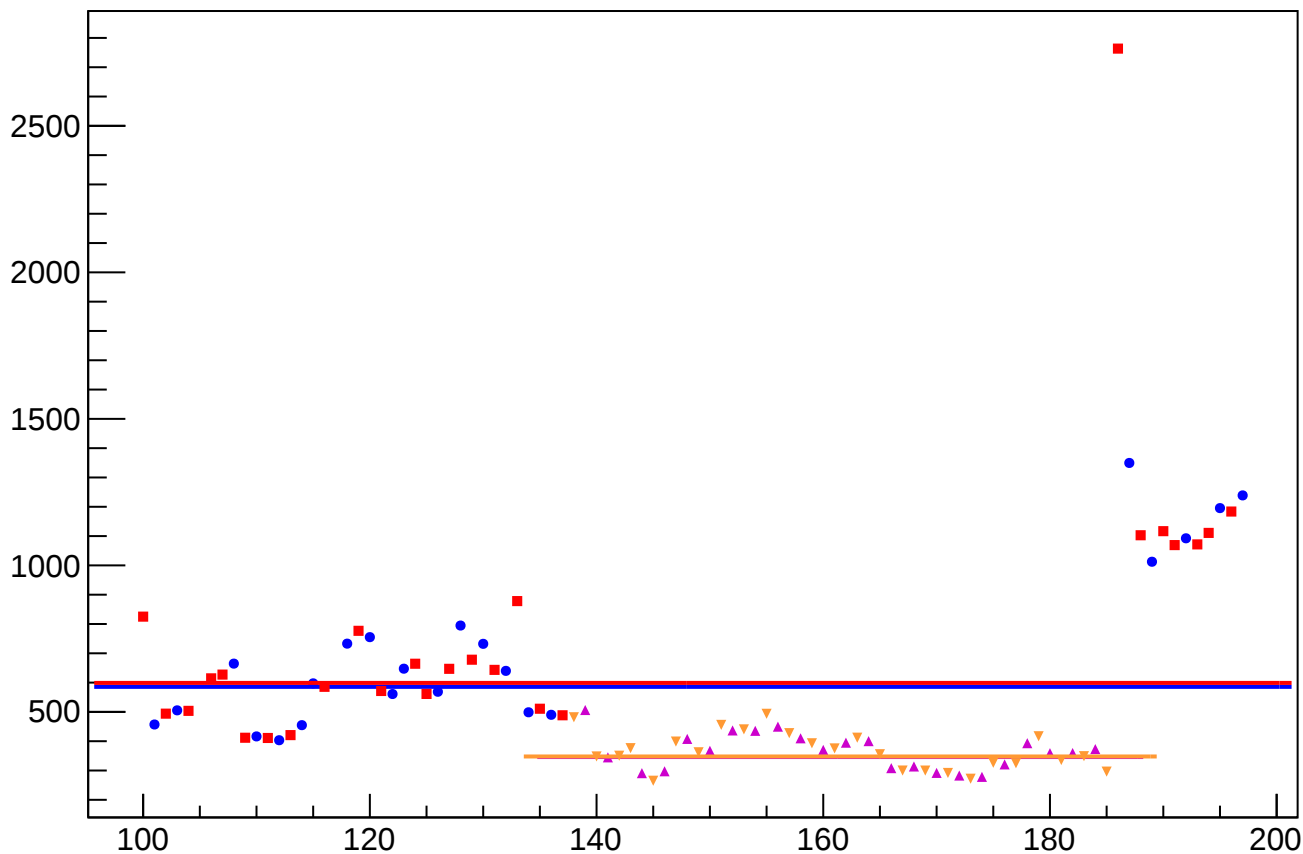
Right: 125.881 ± 138.674 χ^2/NDF : 49.0/47

In: 30.460 ± 77.537 χ^2/NDF : 52.7/44

Out: -273.985 ± 75.677 χ^2/NDF : 95.9/50

All: -125.458 ± 54.157 χ^2/NDF : 156.5/95

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 585.469+/-0.142 χ^2/NDF : 2199982.3/21

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

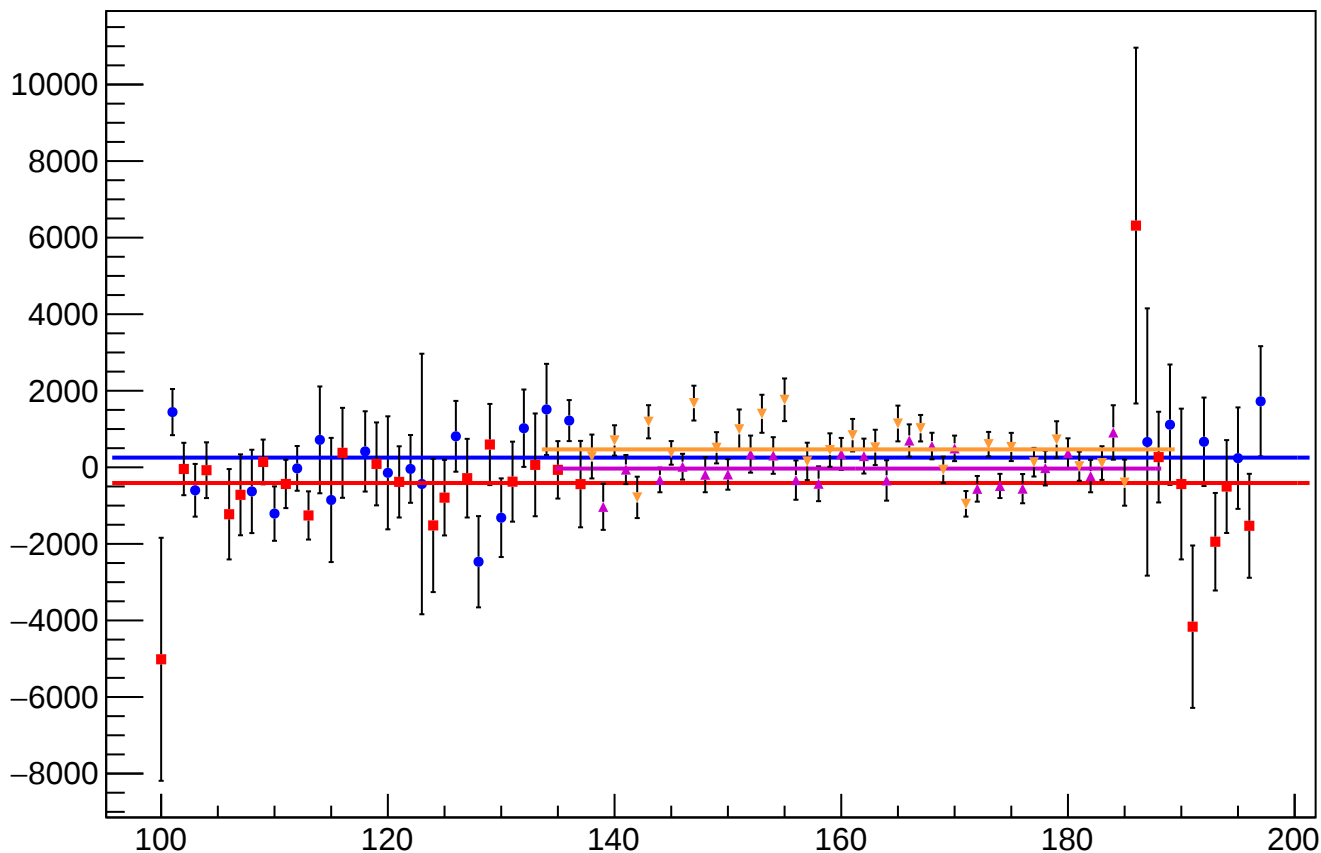
Right: 592.508+/-0.098 χ^2/NDF : 5146839.5/47

In: 381.744+/-0.055 χ^2/NDF : 5526413.4/44

Out: 386.909+/-0.054 χ^2/NDF : 6876715.7/50

All: 384.389+/-0.038 χ^2/NDF : 12407674.4/99

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 253.636 $\pm$ 202.011 χ^2 /NDF: 25.7/21

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

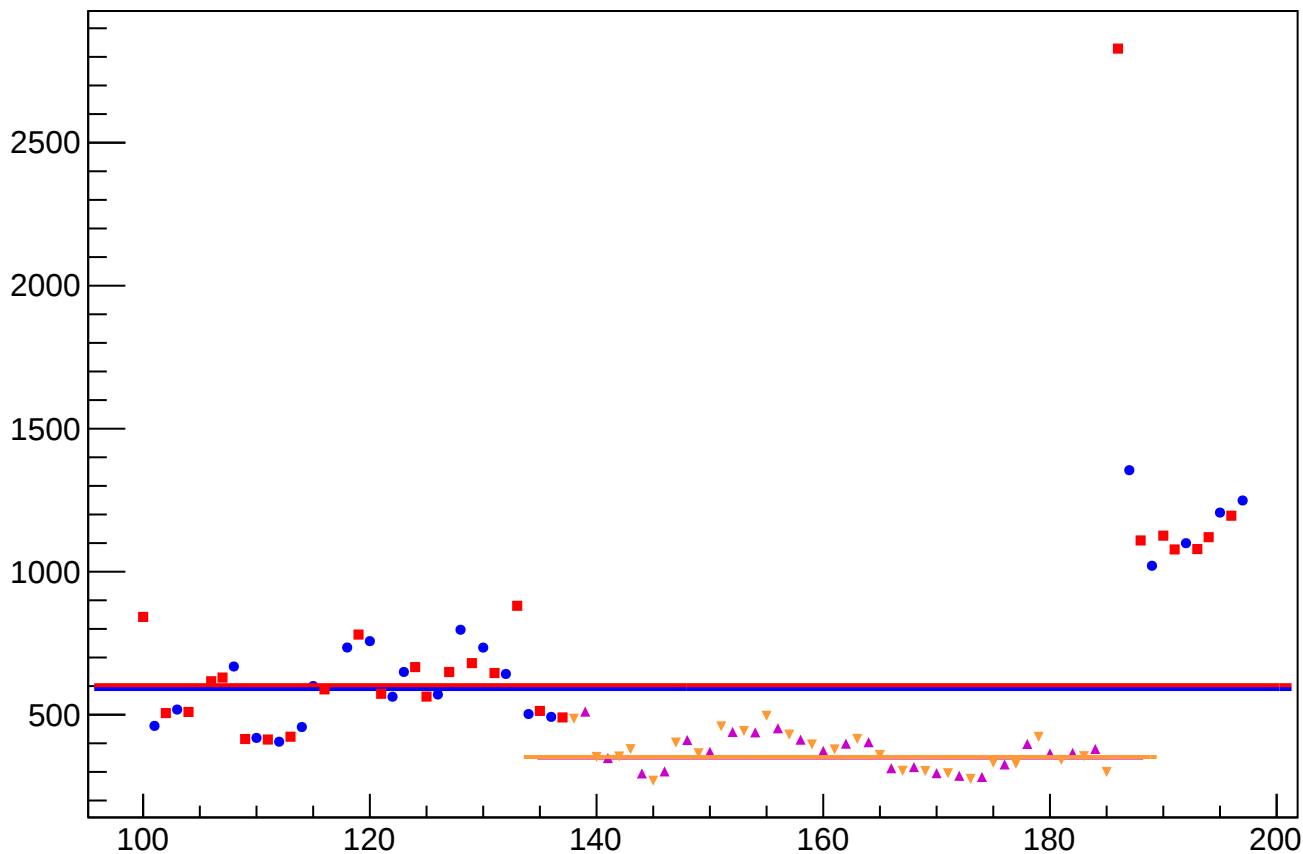
Right: -92.267 $\pm$ 139.708 χ^2 /NDF: 47.4/47

In: 10.338 $\pm$ 78.397 χ^2 /NDF:53.1/44

Out: 331.471 $\pm$ 76.503 χ^2 /NDF:90.9/50

All: 174.830 $\pm$ 54.753 χ^2 /NDF: 152.6/95

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 589.755 $\pm$ 0.143 χ^2 /NDF: 2194069.7/21

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

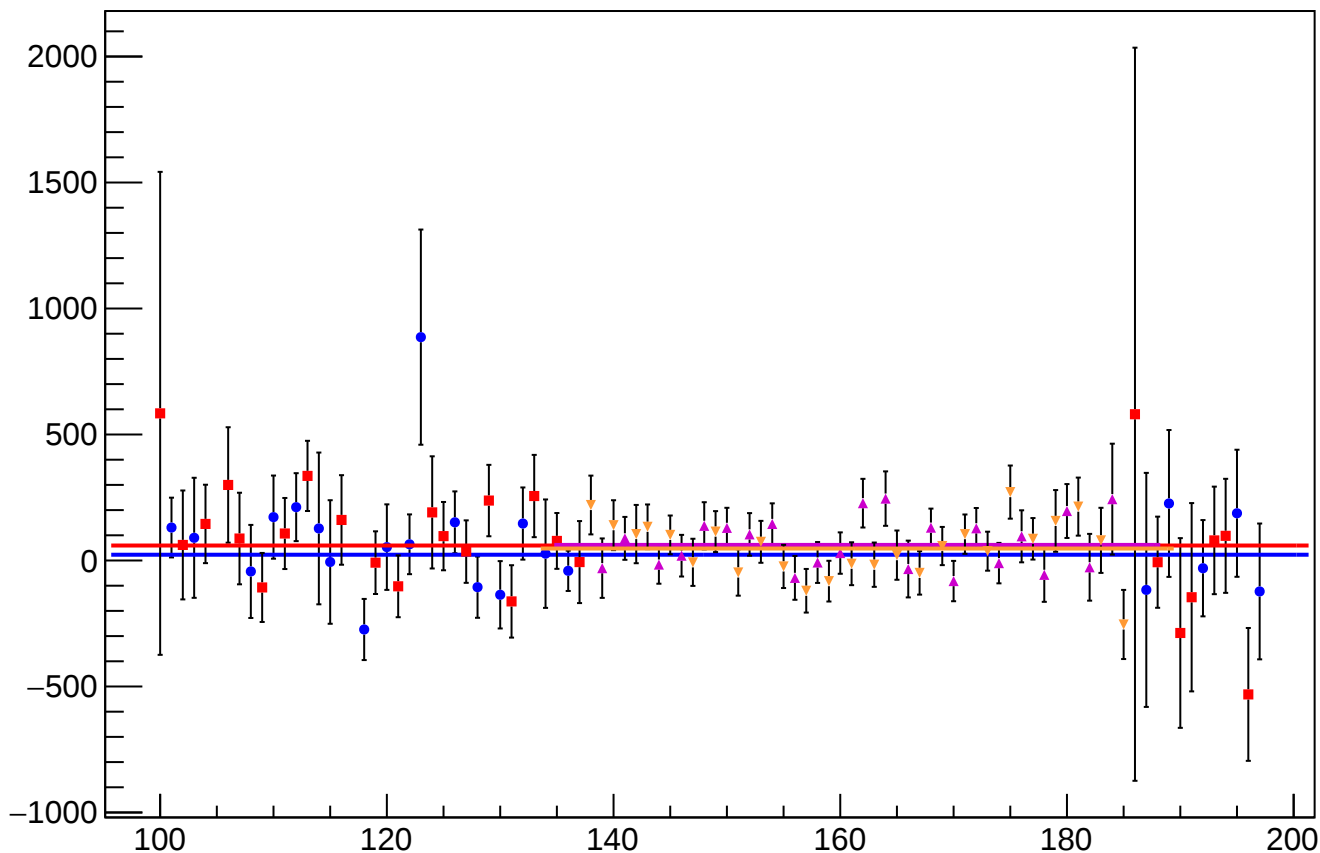
Right: 596.828 $\pm$ 0.099 χ^2 /NDF: 5140613.2/47

In: 386.245 $\pm$ 0.055 χ^2 /NDF: 5462134.8/44

Out: 391.328 $\pm$ 0.054 χ^2 /NDF: 6806863.6/50

All: 388.848 $\pm$ 0.039 χ^2 /NDF: 12273304.7/95

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 22.872 ± 33.208 $\chi^2/\text{NDF}: 20.6/21$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: 59.456 ± 32.847 $\chi^2/\text{NDF}: 22.2/25$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

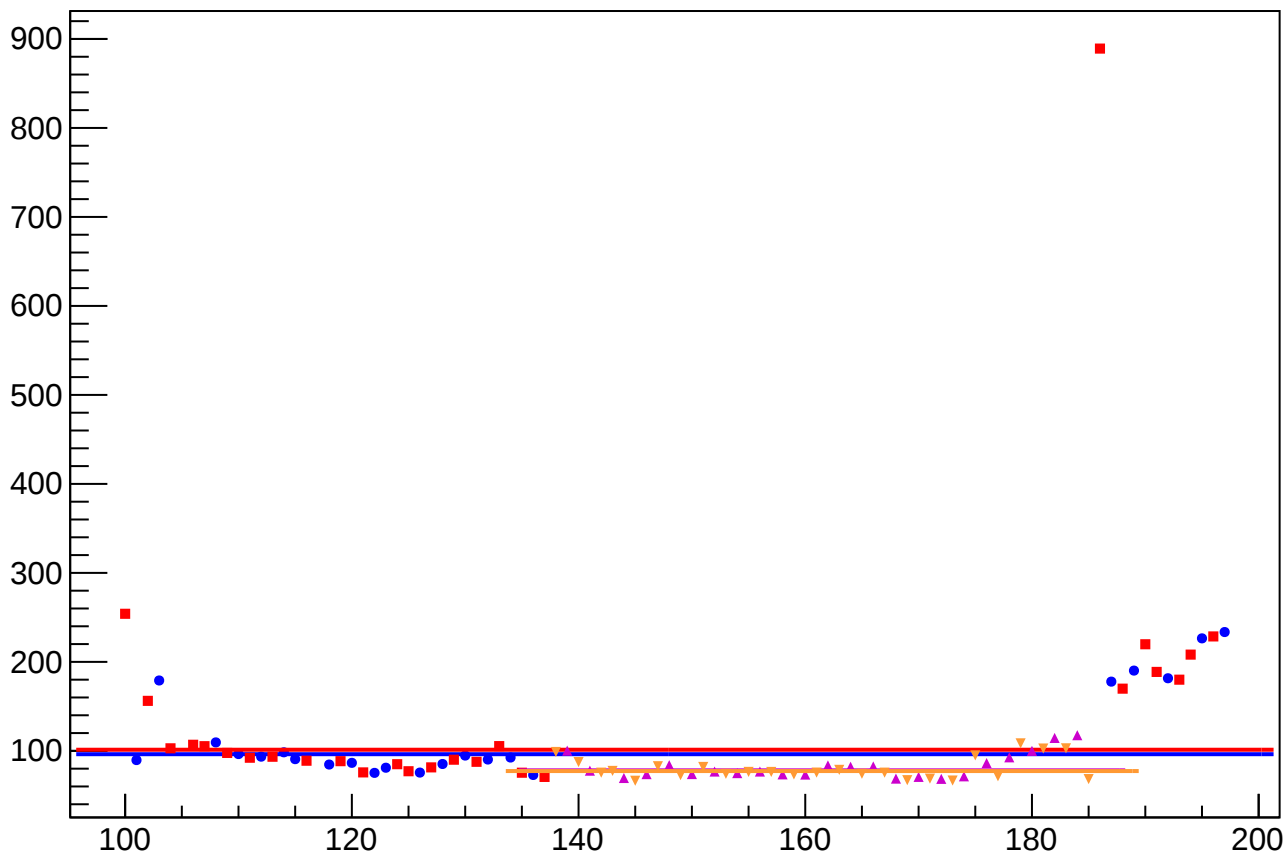
Right: 41.365 ± 23.353 $\chi^2/\text{NDF}: 43.3/47$

In: 52.254 ± 16.464 $\chi^2/\text{NDF}: 45.6/44$

Out: 50.264 ± 15.955 $\chi^2/\text{NDF}: 51.6/50$

All: 51.228 ± 11.457 $\chi^2/\text{NDF}: 97.2/95$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 96.259 $\pm$ 0.023 χ^2 /NDF: 2318704.4/21

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 101.278 $\pm$ 0.023 χ^2 /NDF: 3019130.0/25

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF: 582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

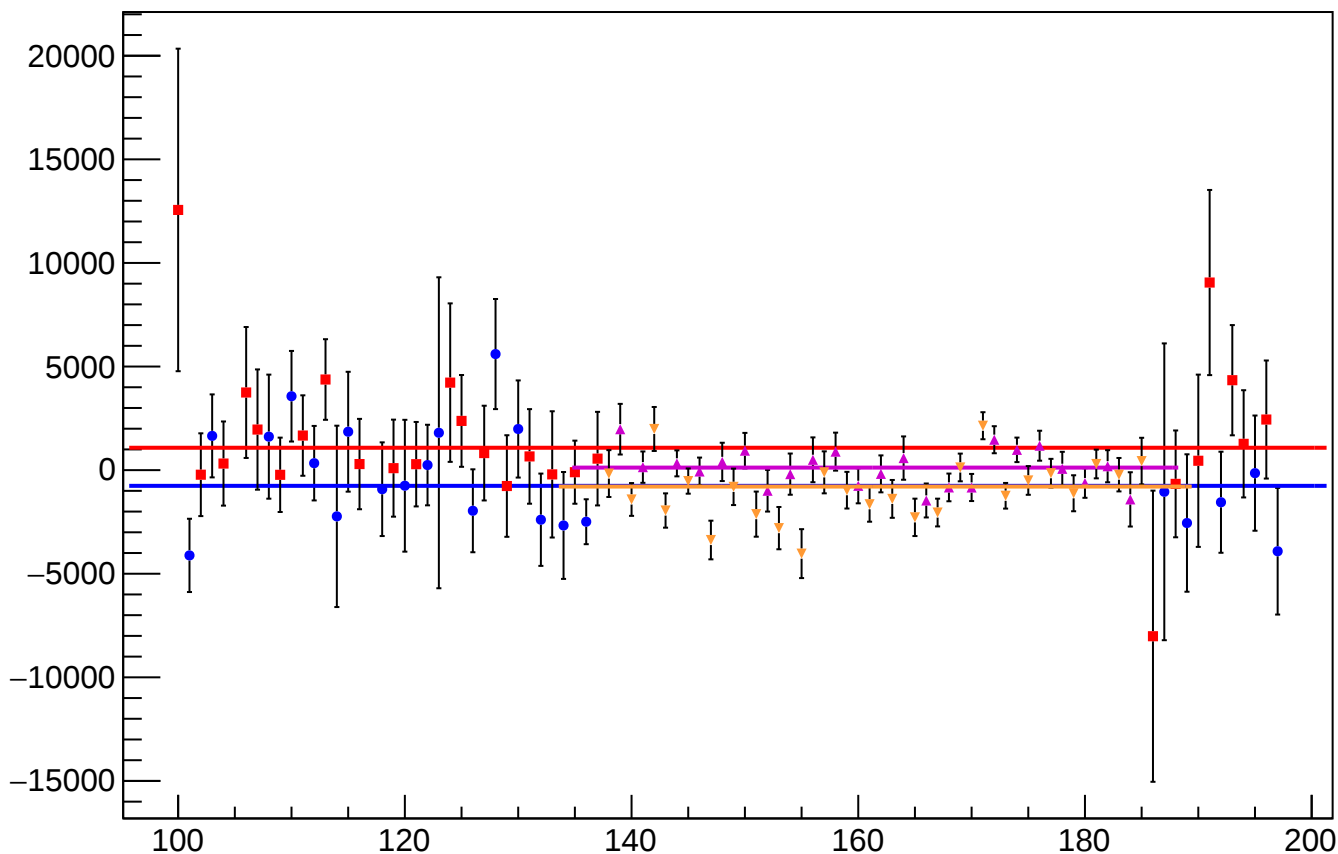
Right: 98.796 $\pm$ 0.017 χ^2 /NDF: 5360926.1/47

In: 82.593 $\pm$ 0.012 χ^2 /NDF: 3349937.5/44

Out: 82.970 $\pm$ 0.011 χ^2 /NDF: 4467983.9/50

All: 82.787 $\pm$ 0.008 χ^2 /NDF: 7818462.7/95

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -758.108+/-485.722 χ^2/NDF : 23.9/21

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

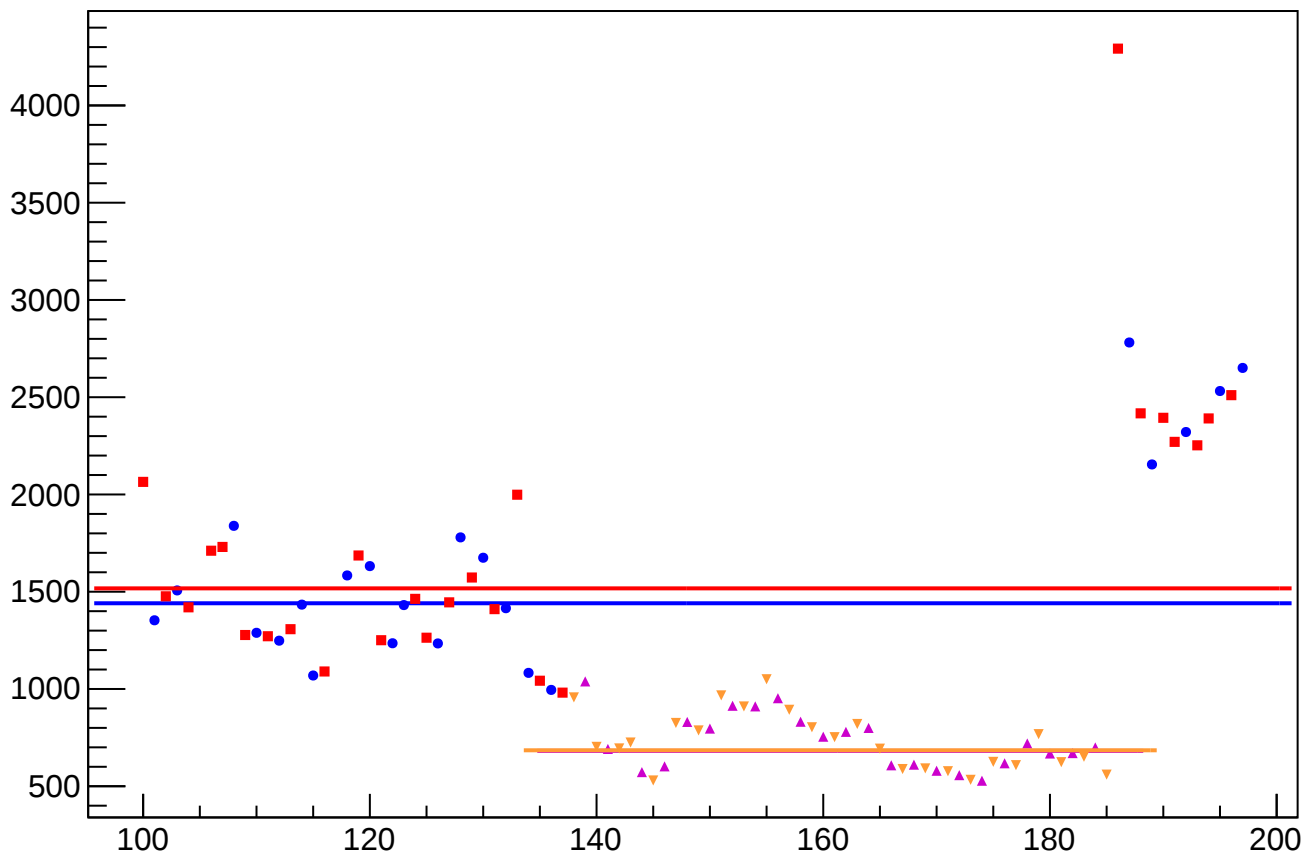
Right: 183.706+/-339.222 χ^2/NDF : 48.3/47

In: 29.940+/-157.244 χ^2/NDF : 52.8/44

Out: -595.393+/-153.851 χ^2/NDF : 97.6/50

All: -289.546+/-109.969 χ^2/NDF : 158.5/95

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1440.693+/-0.343 χ^2/NDF : 1640339.3/21

Left Out: 684.785+/-0.115 χ^2/NDF :1280146.2/24

Right Out: 1517.256+/-0.335 χ^2/NDF : 1962738.2/25

Left In: 681.712+/-0.118 χ^2/NDF :1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

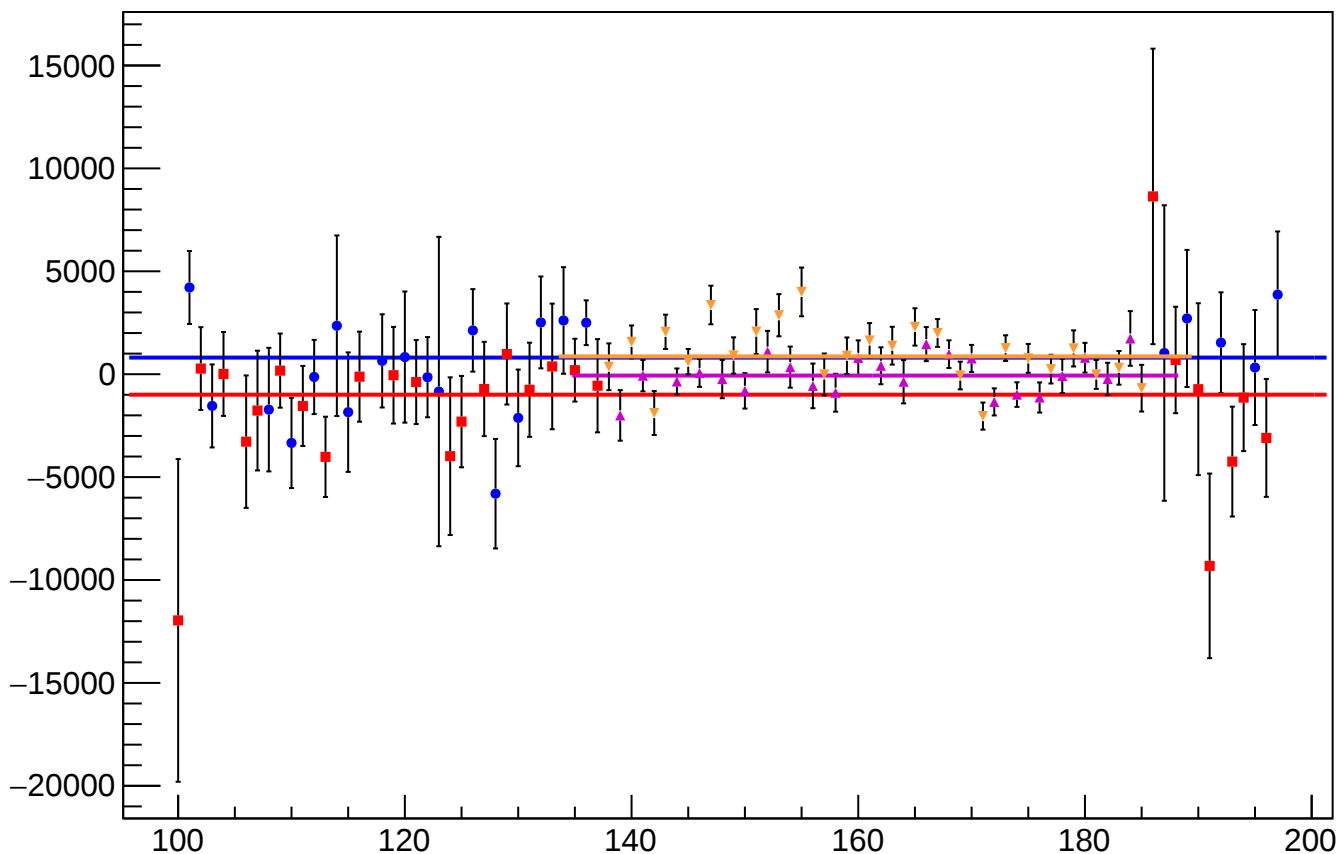
Right: 1479.913+/-0.240 χ^2/NDF : 3628532.9/47

In: 761.255+/-0.111 χ^2/NDF :7131524.6/44

Out: 772.502+/-0.109 χ^2/NDF :8762771.0/50

All: 767.001+/-0.078 χ^2/NDF : 15899523.3/95

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 807.071 $\pm$ 487.160 χ^2 /NDF: 24.0/21

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

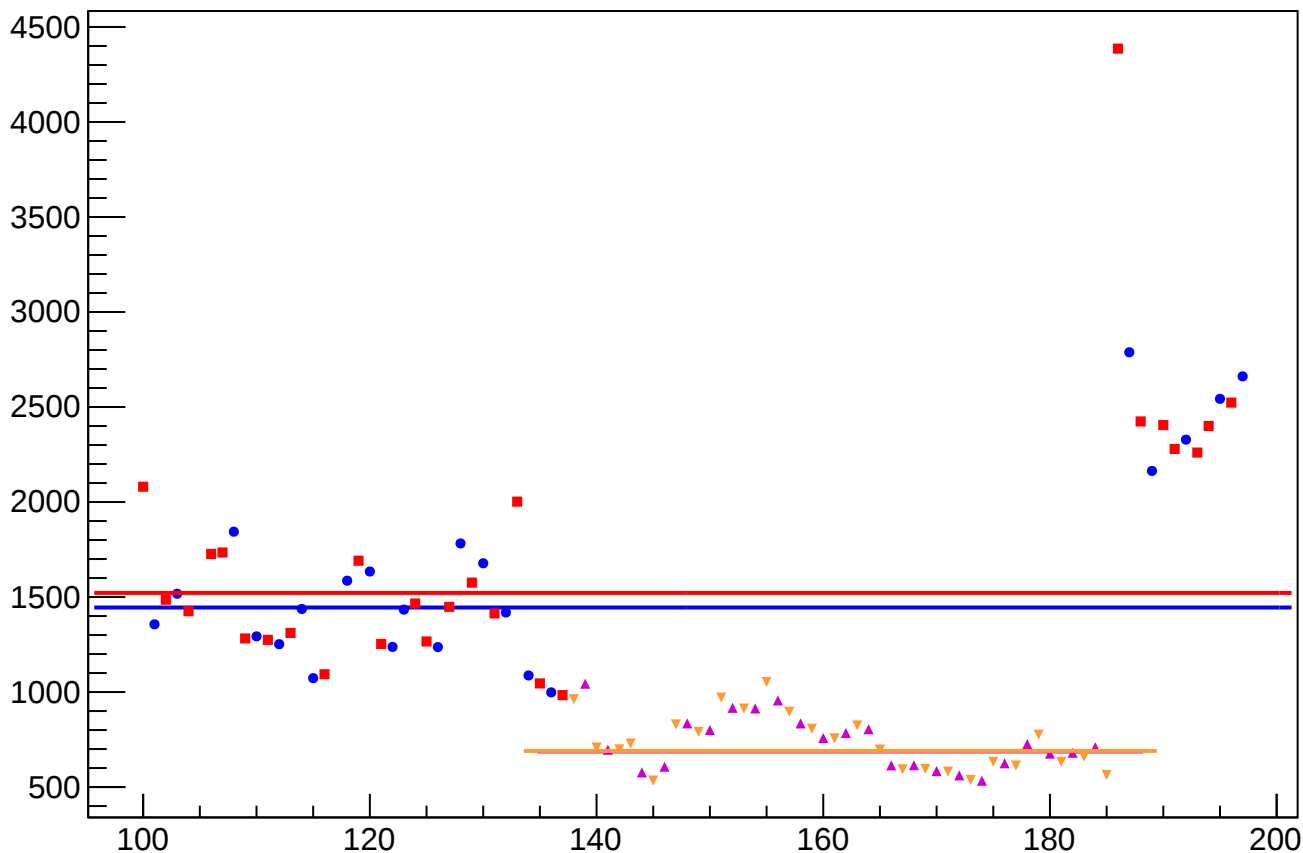
Right: -115.926 $\pm$ 340.315 χ^2 /NDF: 47.6/47

In: 26.354 $\pm$ 158.386 χ^2 /NDF:53.3/44

Out: 668.052 $\pm$ 154.944 χ^2 /NDF:93.2/50

All: 354.250 $\pm$ 110.759 χ^2 /NDF: 154.8/95

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1444.899+/-0.344 χ^2/NDF : 1642094.8/21

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1521.780+/-0.336 χ^2/NDF : 1973408.9/25

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

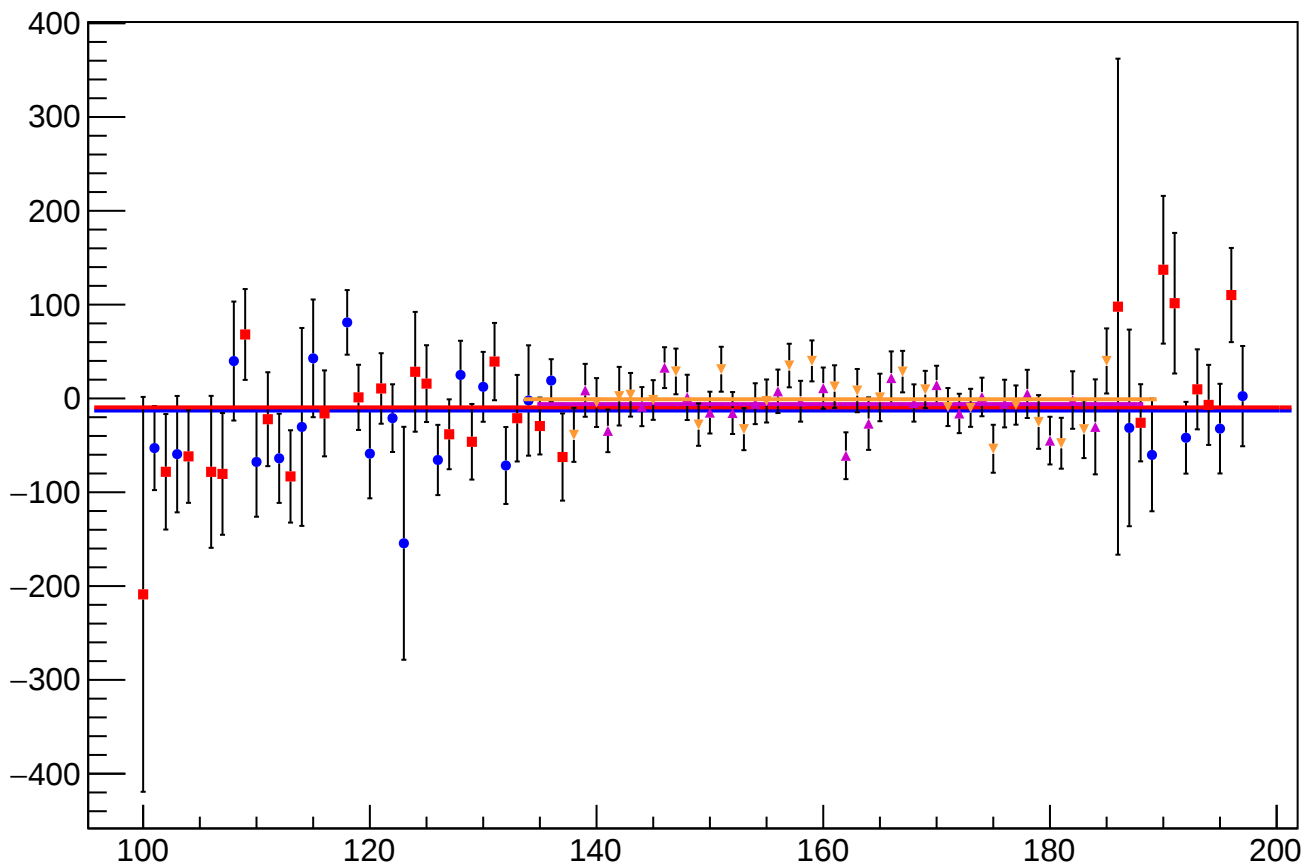
Right: 1484.262+/-0.241 χ^2/NDF : 3641006.9/47

In: 767.306+/-0.112 χ^2/NDF : 7068365.9/44

Out: 778.430+/-0.110 χ^2/NDF : 8697356.5/50

All: 772.990+/-0.078 χ^2/NDF : 15770763.6/95

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.887 ± 9.515 $\chi^2/\text{NDF}: 23.7/21$

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 $\chi^2/\text{NDF}: 45.4/47$

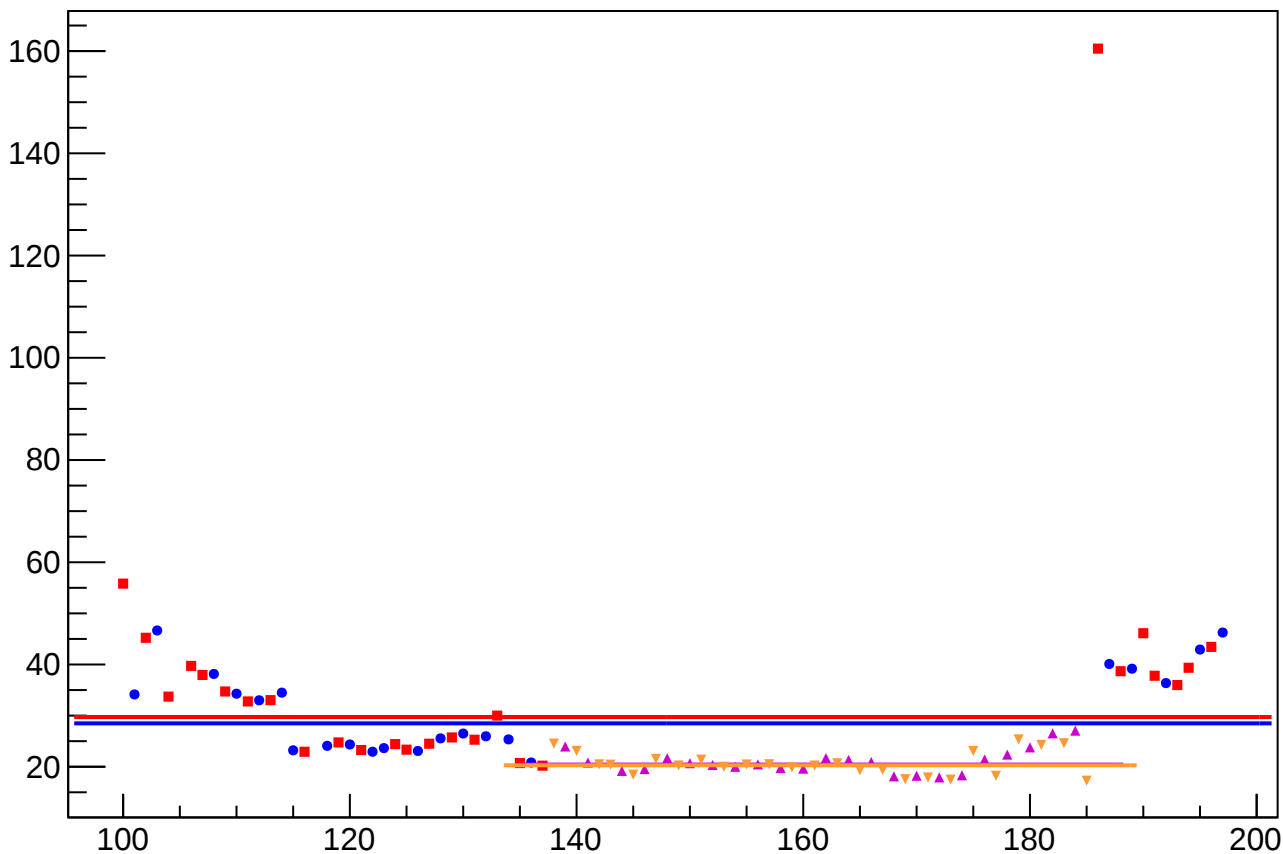
Right: -11.180 ± 6.651 $\chi^2/\text{NDF}: 51.4/47$

In: -7.488 ± 4.374 $\chi^2/\text{NDF}: 41.0/44$

Out: -2.665 ± 4.237 $\chi^2/\text{NDF}: 56.3/50$

All: -5.000 ± 3.043 $\chi^2/\text{NDF}: 97.9/95$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.485+/-0.007 χ^2/NDF : 1282782.3/21

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.722+/-0.007 χ^2/NDF : 1808505.4/25

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

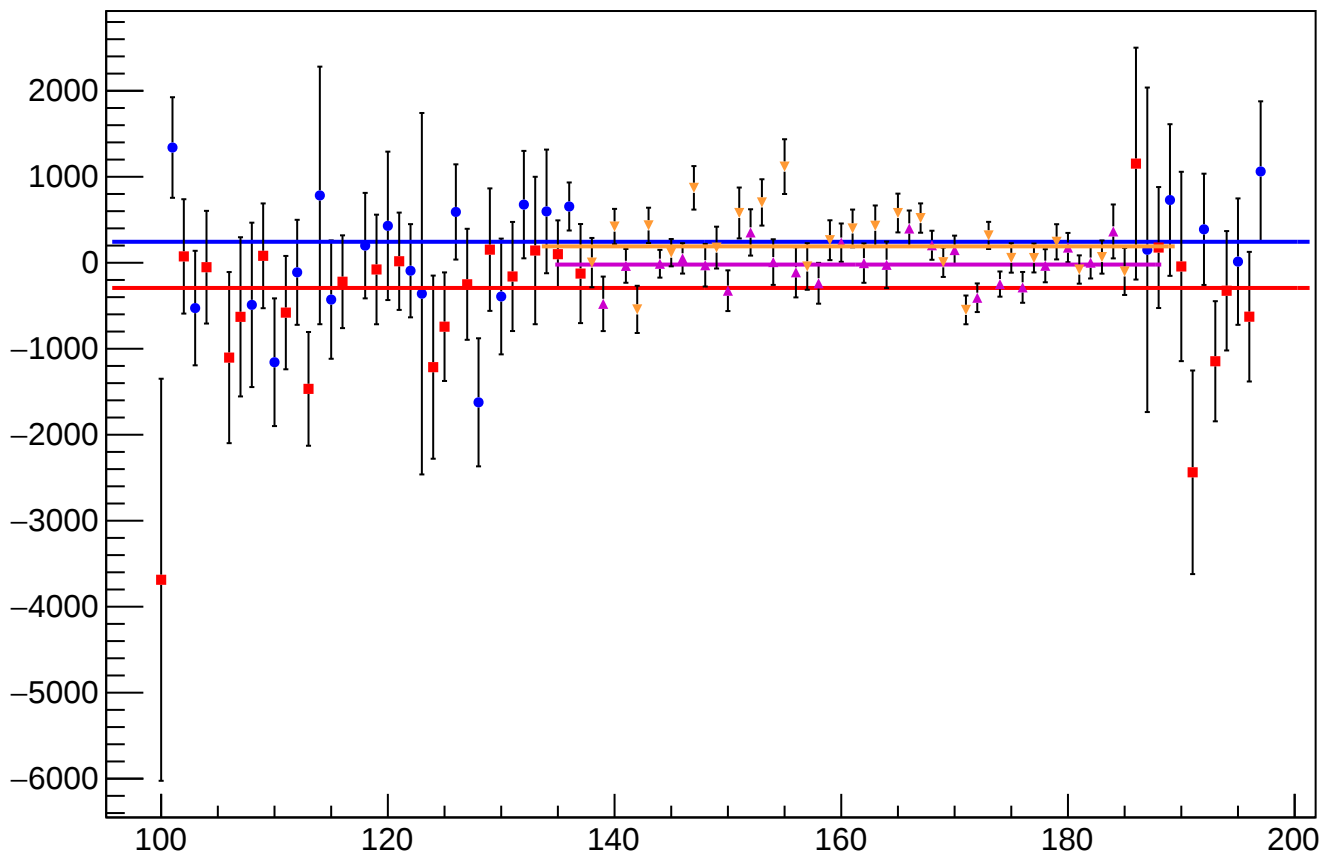
Right: 29.118+/-0.005 χ^2/NDF : 3108584.7/47

In: 22.127+/-0.003 χ^2/NDF : 2738397.8/44

Out: 22.240+/-0.003 χ^2/NDF : 3849521.3/50

All: 22.185+/-0.002 χ^2/NDF : 6588601.1/95

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 243.980 $\pm$ 137.566 χ^2 /NDF: 22.9/21

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -293.000 $\pm$ 135.676 χ^2 /NDF: 17.1/25

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

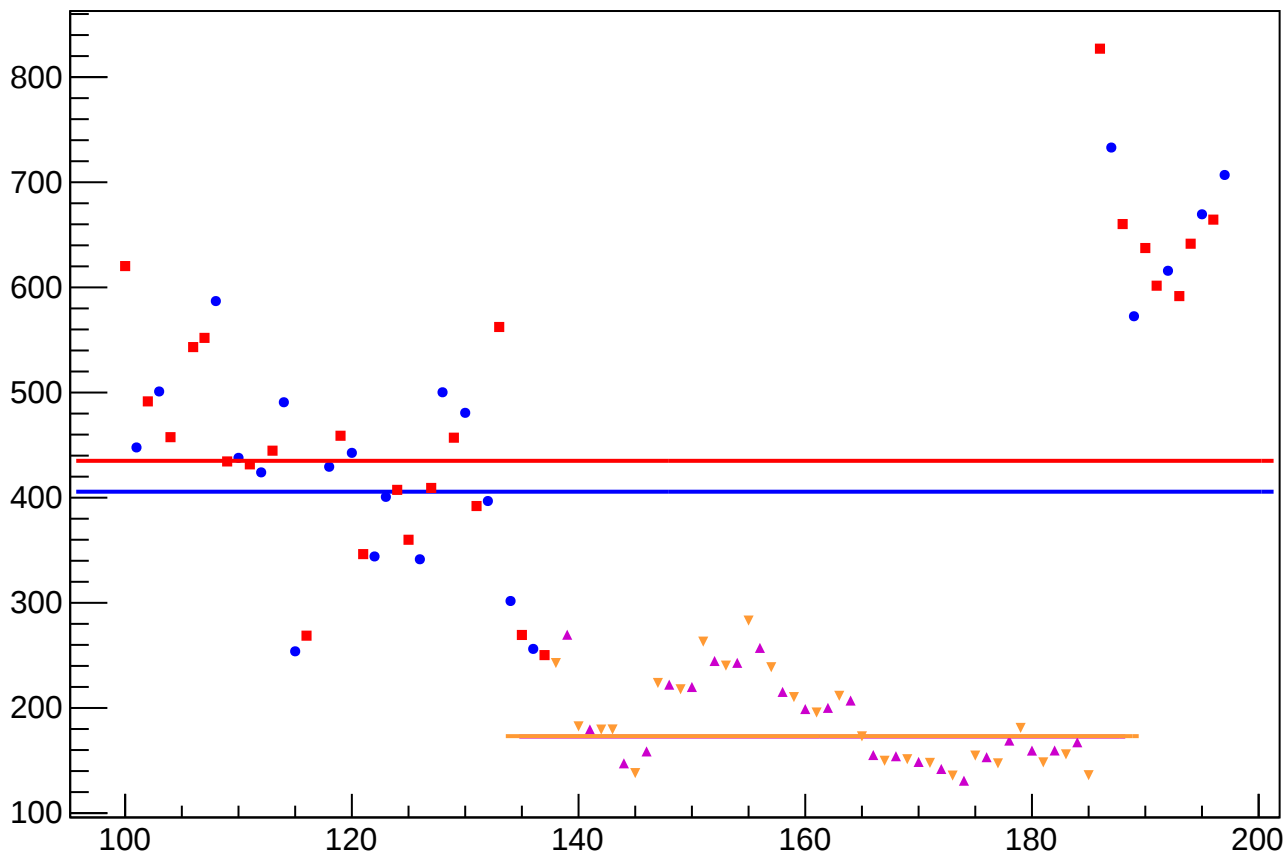
Right: -28.224 $\pm$ 96.598 χ^2 /NDF: 47.7/47

In: 1.882 $\pm$ 40.424 χ^2 /NDF: 54.0/44

Out: 149.809 $\pm$ 39.522 χ^2 /NDF: 96.6/50

All: 77.513 $\pm$ 28.260 χ^2 /NDF: 157.5/95

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 405.692 $\pm$ 0.097 χ^2 /NDF: 1837136.5/21

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 435.060 $\pm$ 0.096 χ^2 /NDF: 1919445.7/25

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF:1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

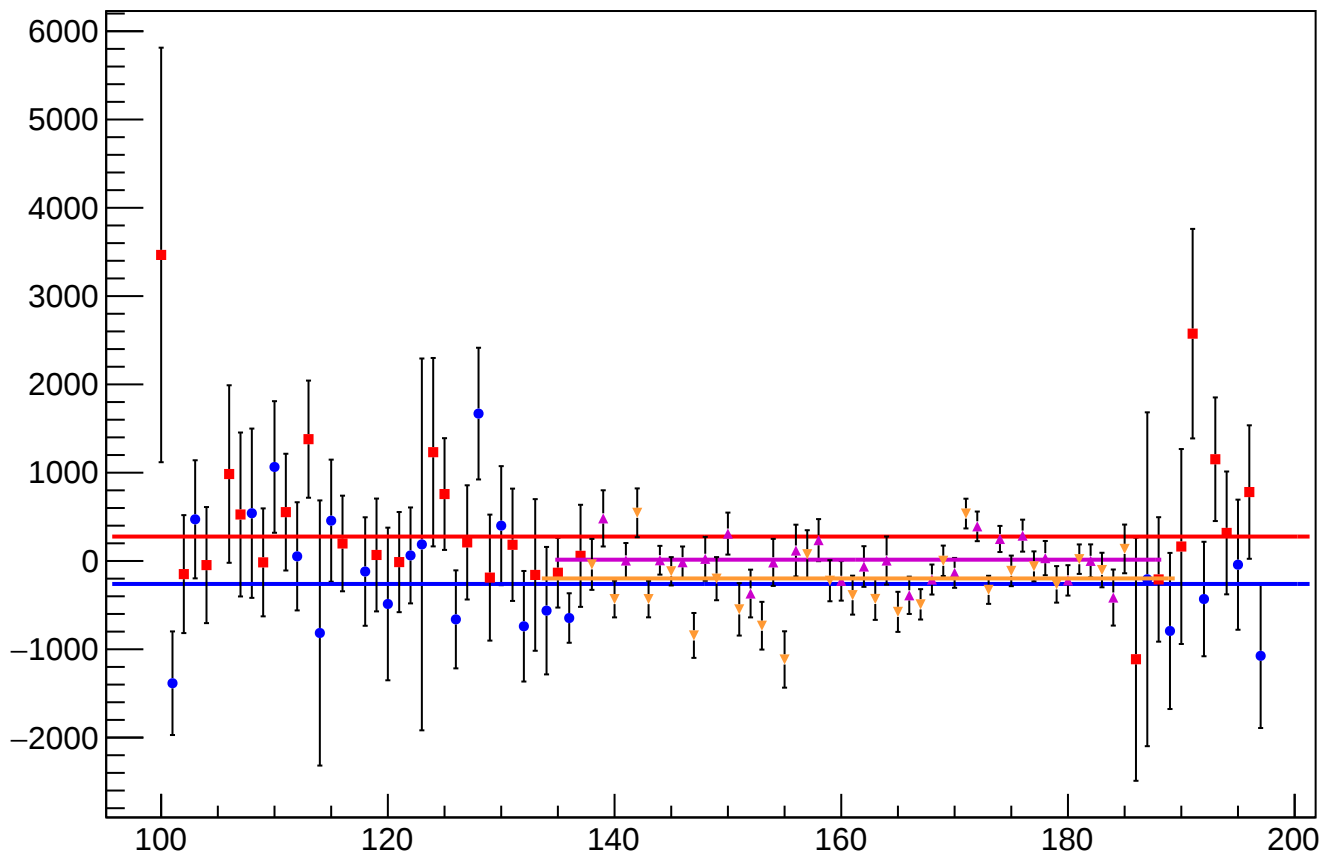
Right: 420.579 $\pm$ 0.068 χ^2 /NDF: 3802787.2/47

In: 192.935 $\pm$ 0.029 χ^2 /NDF:8445237.1/44

Out: 195.429 $\pm$ 0.028 χ^2 /NDF:10298144.5/50

All: 194.210 $\pm$ 0.020 χ^2 /NDF: 18747274.5/99

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -260.202 $\pm$ 137.952 χ^2 /NDF: 23.1/21

Left Out: -197.918 $\pm$ 41.638 χ^2 /NDF:64.3/24

Right Out: 276.565 $\pm$ 136.088 χ^2 /NDF: 17.2/25

Left In: 14.616 $\pm$ 42.629 χ^2 /NDF:27.7/22

Left: -94.151 $\pm$ 29.787 χ^2 /NDF: 104.7/47

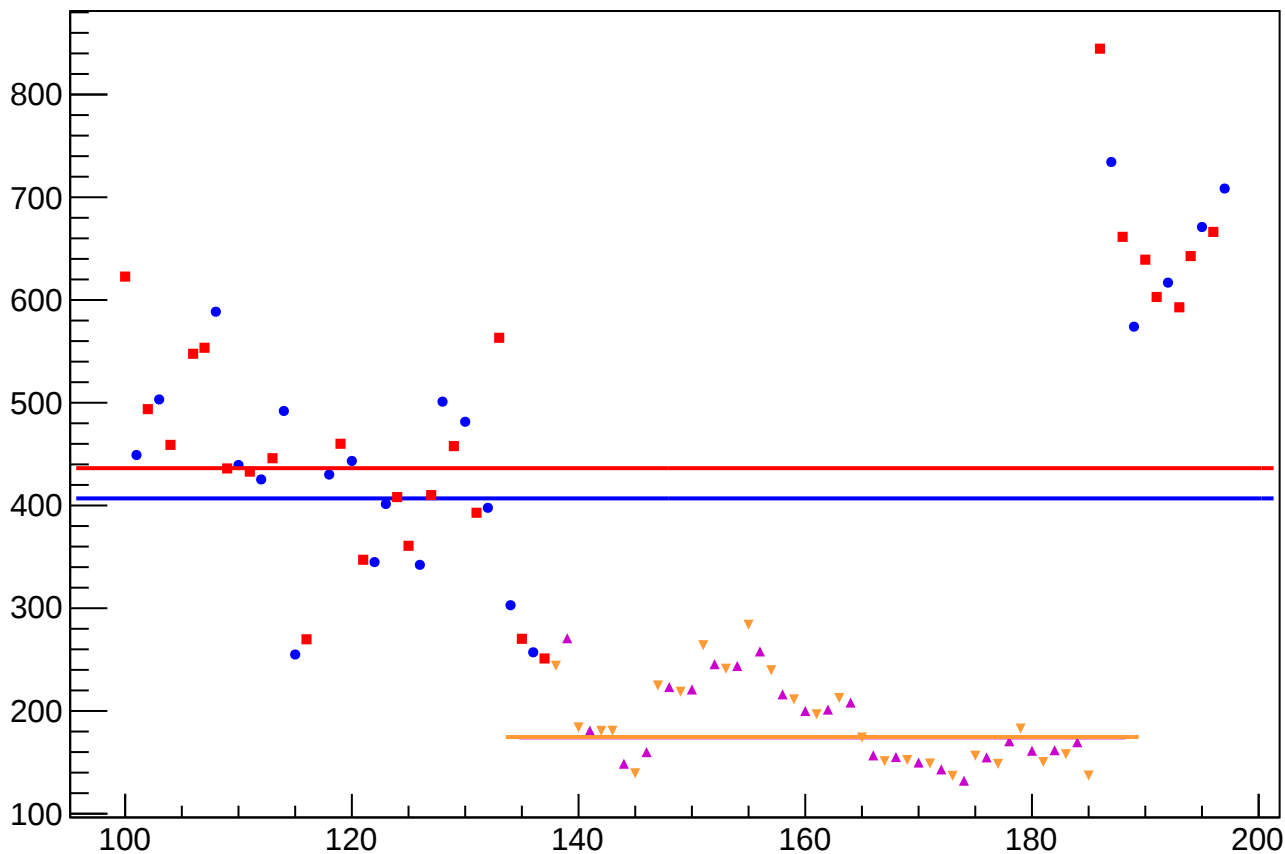
Right: 11.833 $\pm$ 96.881 χ^2 /NDF: 47.9/47

In: -9.339 $\pm$ 40.729 χ^2 /NDF:54.4/44

Out: -157.302 $\pm$ 39.816 χ^2 /NDF:92.6/50

All: -84.997 $\pm$ 28.472 χ^2 /NDF: 153.7/95

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 406.900 +/- 0.098 χ^2/NDF : 1831910.5/21

Left Out: 174.648 +/- 0.029 χ^2/NDF : 1531999.5/24

Right Out: 436.313 +/- 0.096 χ^2/NDF : 1924026.2/25

Left In: 174.288 +/- 0.030 χ^2/NDF : 1344779.5/22

Left: 174.472 +/- 0.021 χ^2/NDF : 2876851.9/47

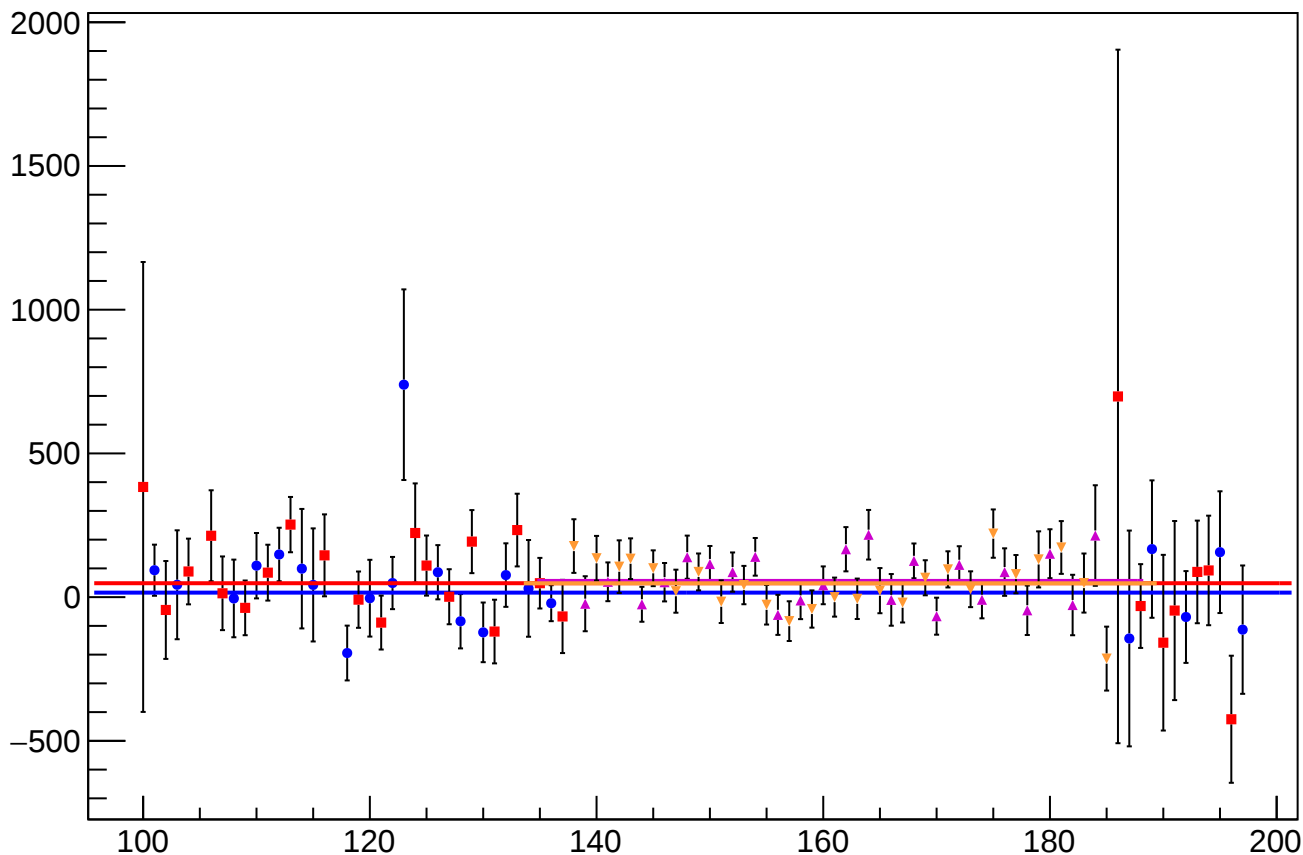
Right: 421.807 +/- 0.069 χ^2/NDF : 3802017.3/47

In: 194.564 +/- 0.029 χ^2/NDF : 8367398.2/44

Out: 197.047 +/- 0.028 χ^2/NDF : 10217174.0/50

All: 195.834 +/- 0.020 χ^2/NDF : 18588371.5/95

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 15.692 $\pm$ 25.453 χ^2 /NDF: 19.2/21

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 48.429 $\pm$ 24.958 χ^2 /NDF: 24.6/25

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

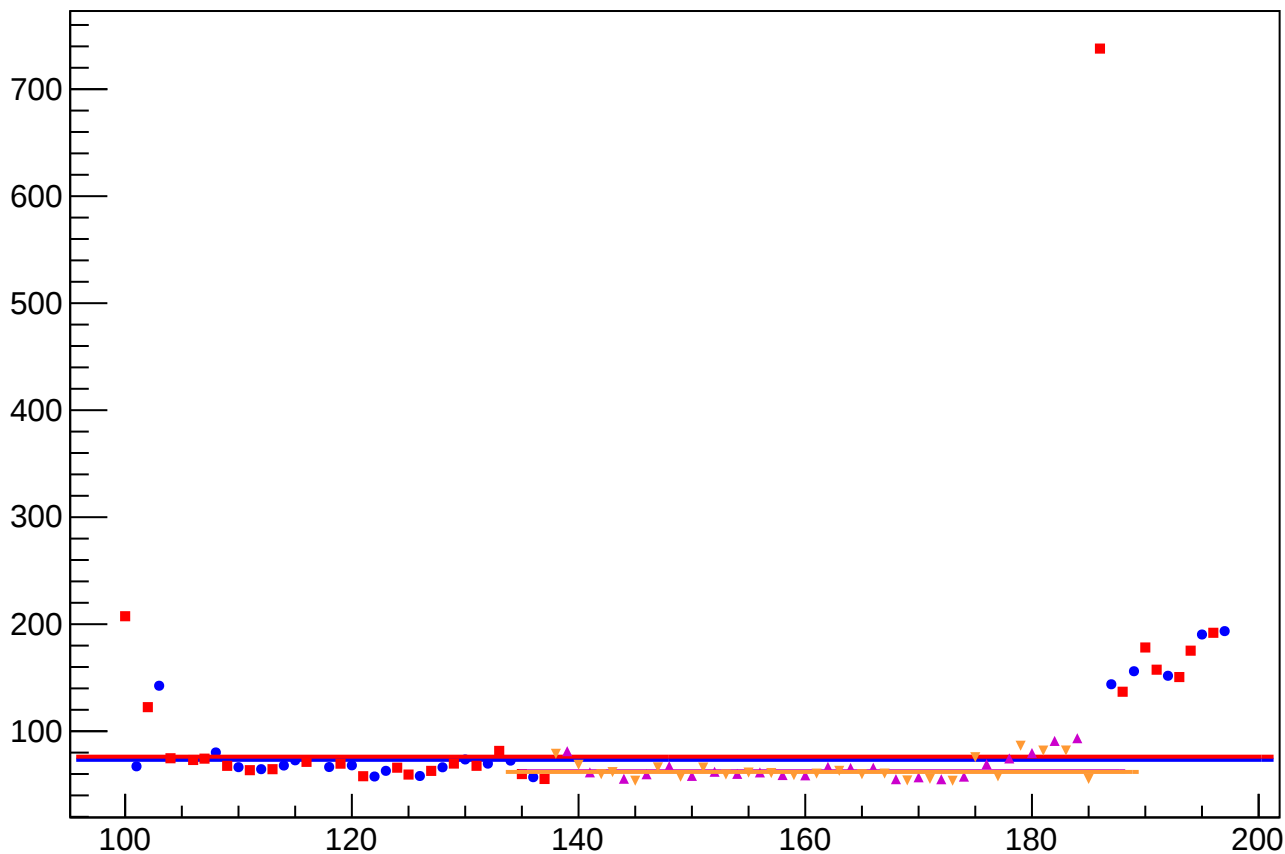
Right: 32.382 $\pm$ 17.820 χ^2 /NDF: 44.7/47

In: 45.720 $\pm$ 13.039 χ^2 /NDF:48.6/44

Out: 48.283 $\pm$ 12.612 χ^2 /NDF:53.9/50

All: 47.044 $\pm$ 9.065 χ^2 /NDF: 102.5/95

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 73.248 $\pm$ 0.018 χ^2 /NDF: 2567245.1/21

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

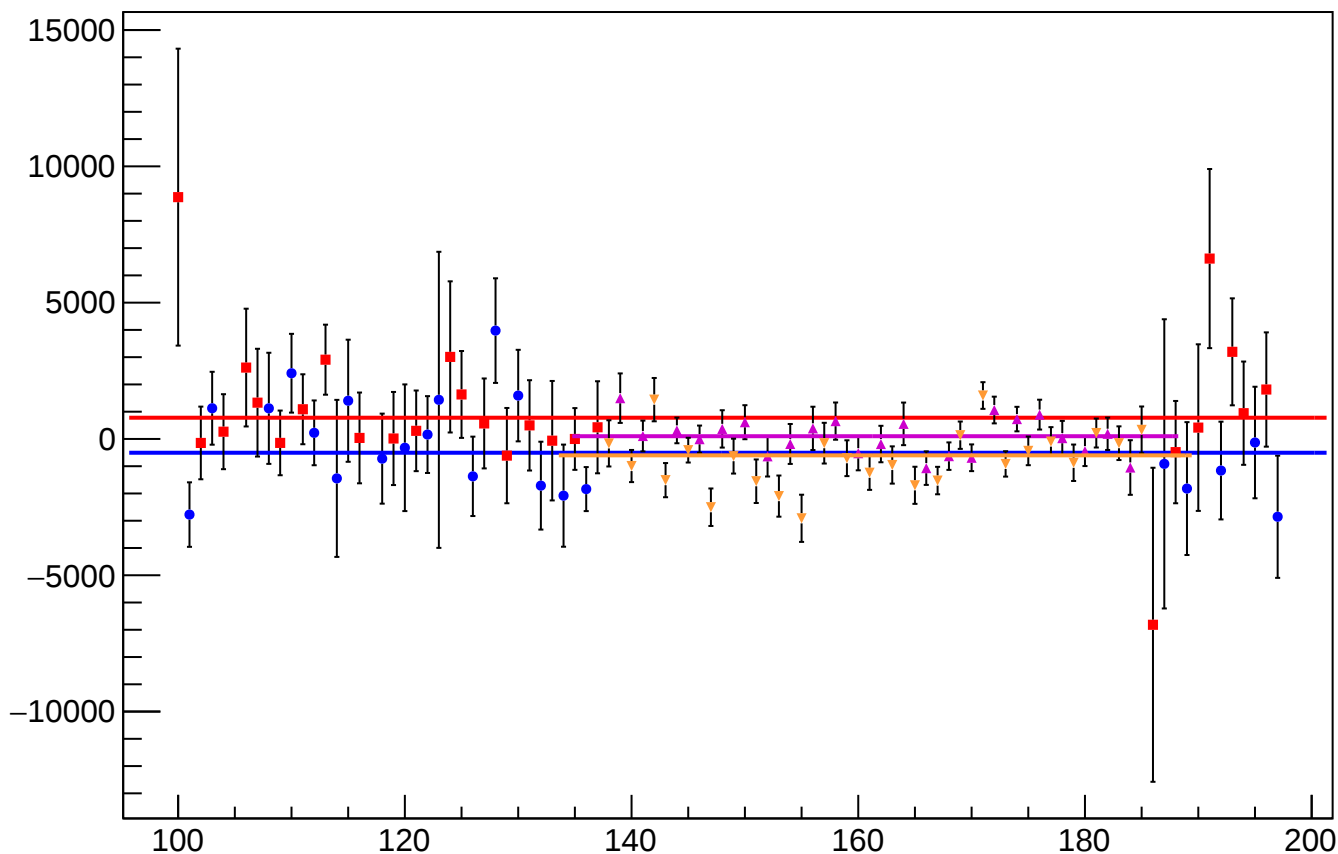
Right: 74.748 $\pm$ 0.013 χ^2 /NDF: 5938265.0/47

In: 65.399 $\pm$ 0.009 χ^2 /NDF: 3400571.7/44

Out: 65.584 $\pm$ 0.009 χ^2 /NDF: 4447503.5/50

All: 65.495 $\pm$ 0.006 χ^2 /NDF: 7848282.4/95

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -505.875+/-345.744 χ^2/NDF : 24.4/21

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

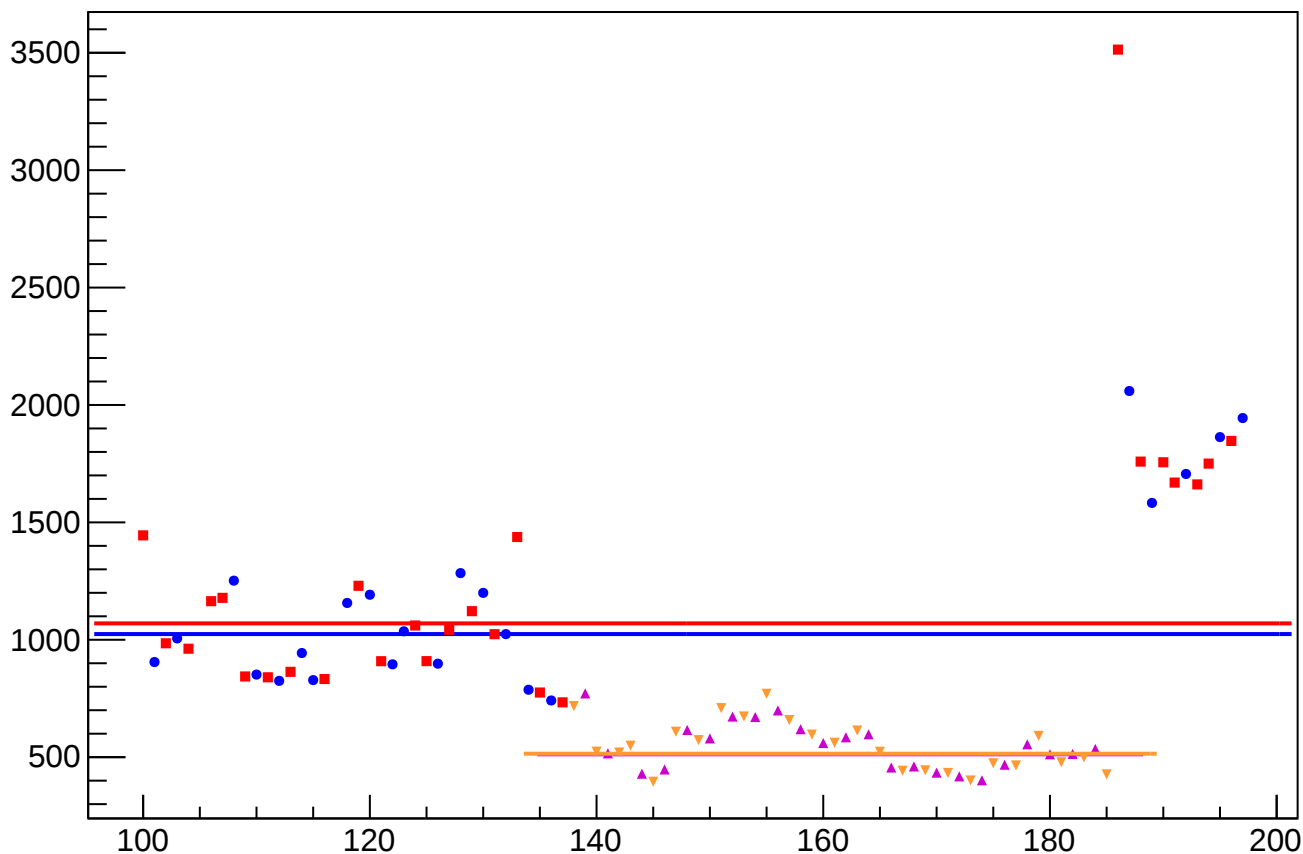
Right: 155.745+/-240.791 χ^2/NDF : 48.5/47

In: 30.718+/-117.324 χ^2/NDF : 52.6/44

Out: -440.033+/-114.755 χ^2/NDF : 97.3/50

All: -209.868+/-82.037 χ^2/NDF : 158.1/95

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1024.341 $\pm$ 0.244 χ^2 /NDF: 1681782.1/21

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 1069.815 $\pm$ 0.237 χ^2 /NDF: 2116889.2/25

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

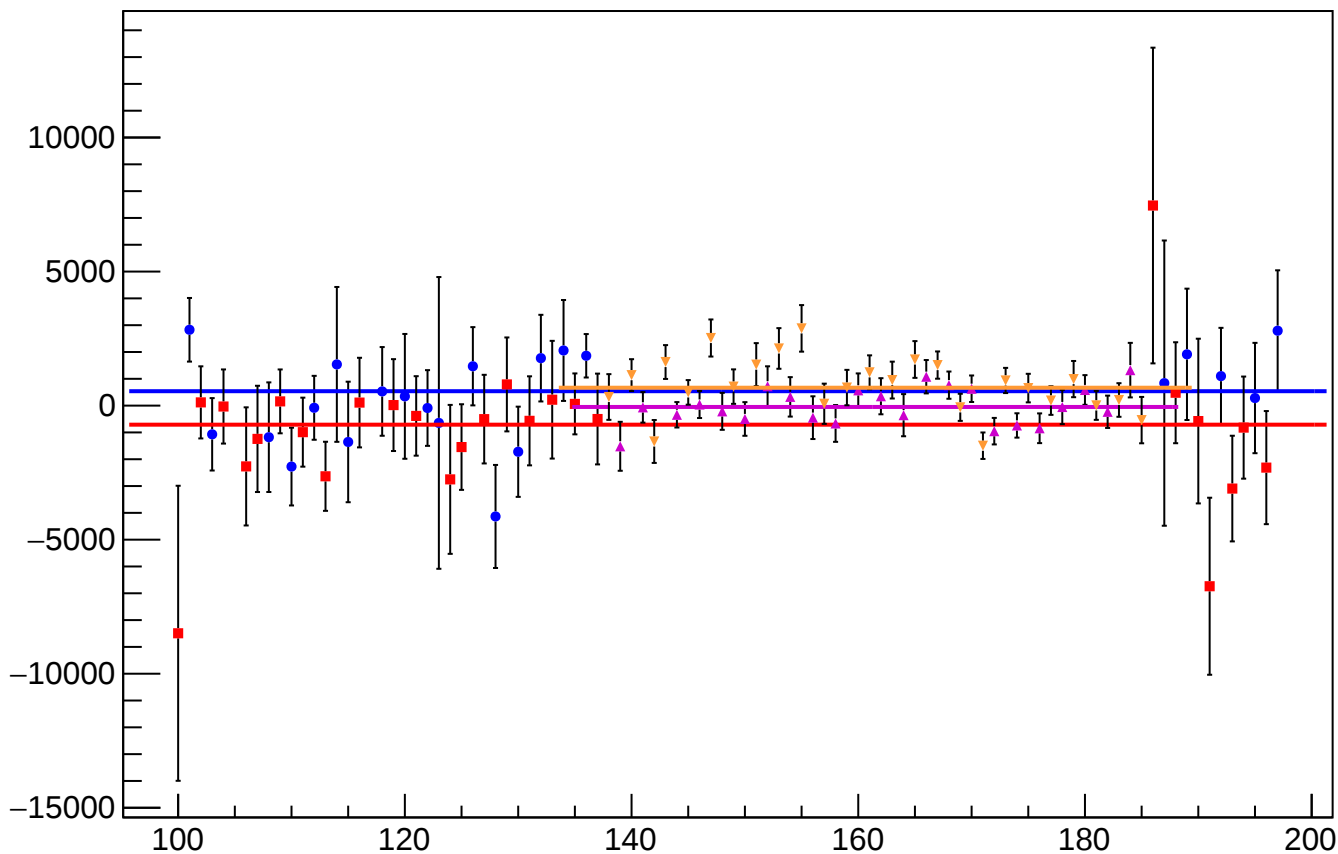
Right: 1047.758 $\pm$ 0.170 χ^2 /NDF: 3816487.6/47

In: 571.172 $\pm$ 0.083 χ^2 /NDF:6606112.5/44

Out: 579.678 $\pm$ 0.081 χ^2 /NDF:8144463.8/50

All: 575.519 $\pm$ 0.058 χ^2 /NDF: 14755948.1/95

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 537.718+/-346.980 χ^2/NDF : 24.4/21

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

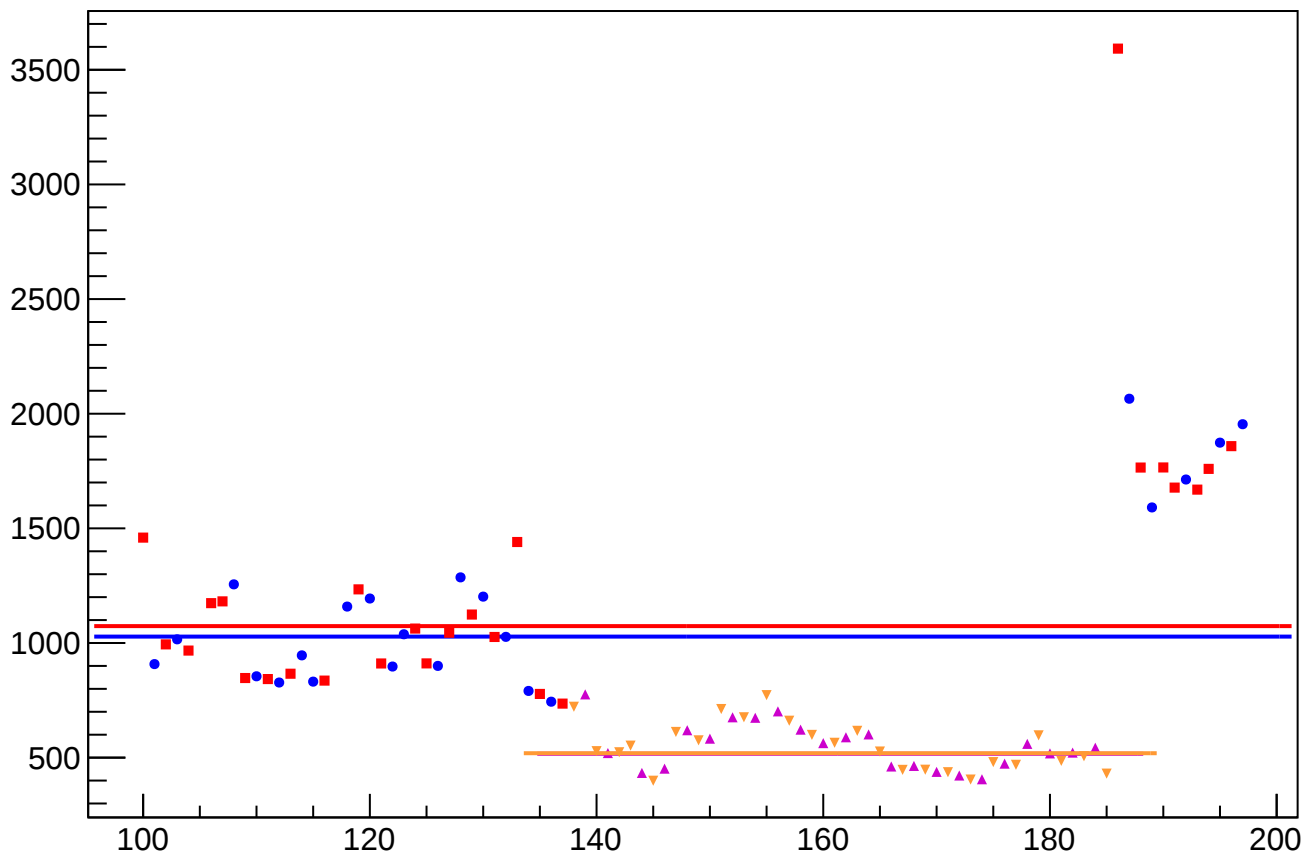
Right: -104.899+/-241.725 χ^2/NDF : 47.5/47

In: 18.214+/-118.271 χ^2/NDF : 53.0/44

Out: 505.189+/-115.663 χ^2/NDF : 92.7/50

All: 267.130+/-82.693 χ^2/NDF : 154.4/95

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1027.920+/-0.245 χ^2/NDF : 1684972.7/21

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

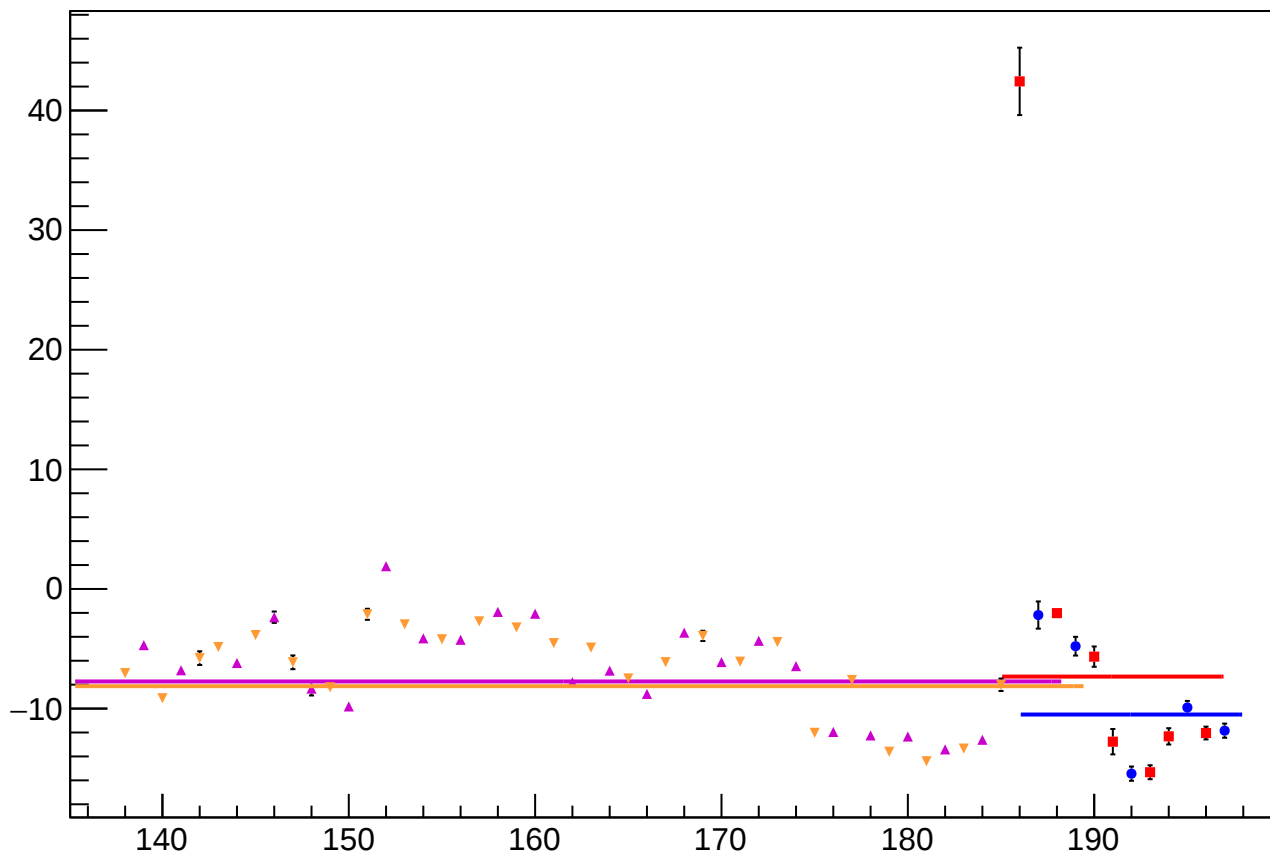
Right: 1051.449+/-0.171 χ^2/NDF : 3831098.6/47

In: 576.177+/-0.084 χ^2/NDF : 6542025.6/44

Out: 584.580+/-0.082 χ^2/NDF : 8076919.7/50

All: 580.472+/-0.058 χ^2/NDF : 14624105.4/95

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.497 ± 0.297 χ^2/NDF : 181.9/4

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

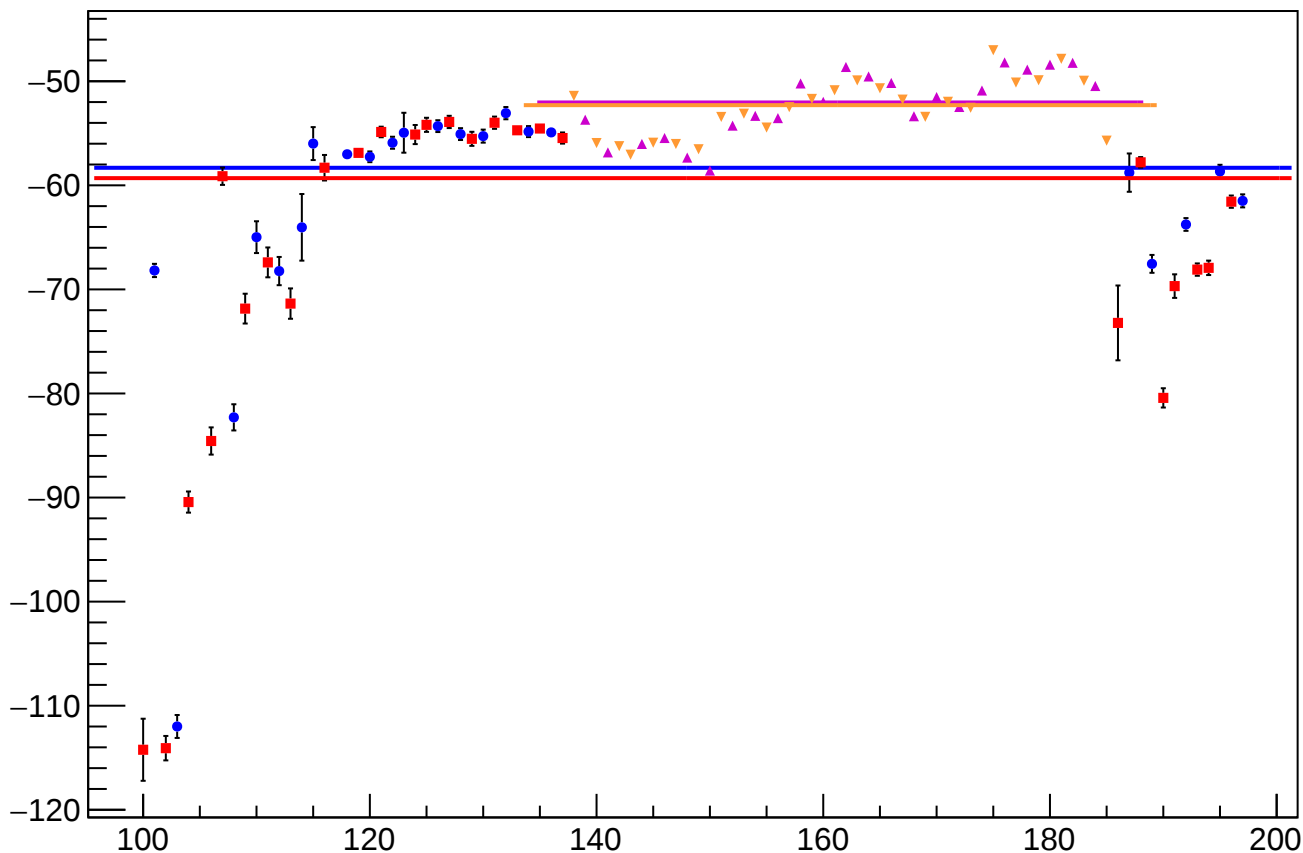
Right: -8.480 ± 0.179 χ^2/NDF : 1165.2/11

In: -7.873 ± 0.067 χ^2/NDF : 3983.3/27

Out: -8.061 ± 0.065 χ^2/NDF : 4557.8/31

All: -7.971 ± 0.047 χ^2/NDF : 8545.2/59

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.314 ± 0.131 χ^2/NDF : 3705.5/21

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -59.309 ± 0.126 χ^2/NDF : 5838.3/25

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

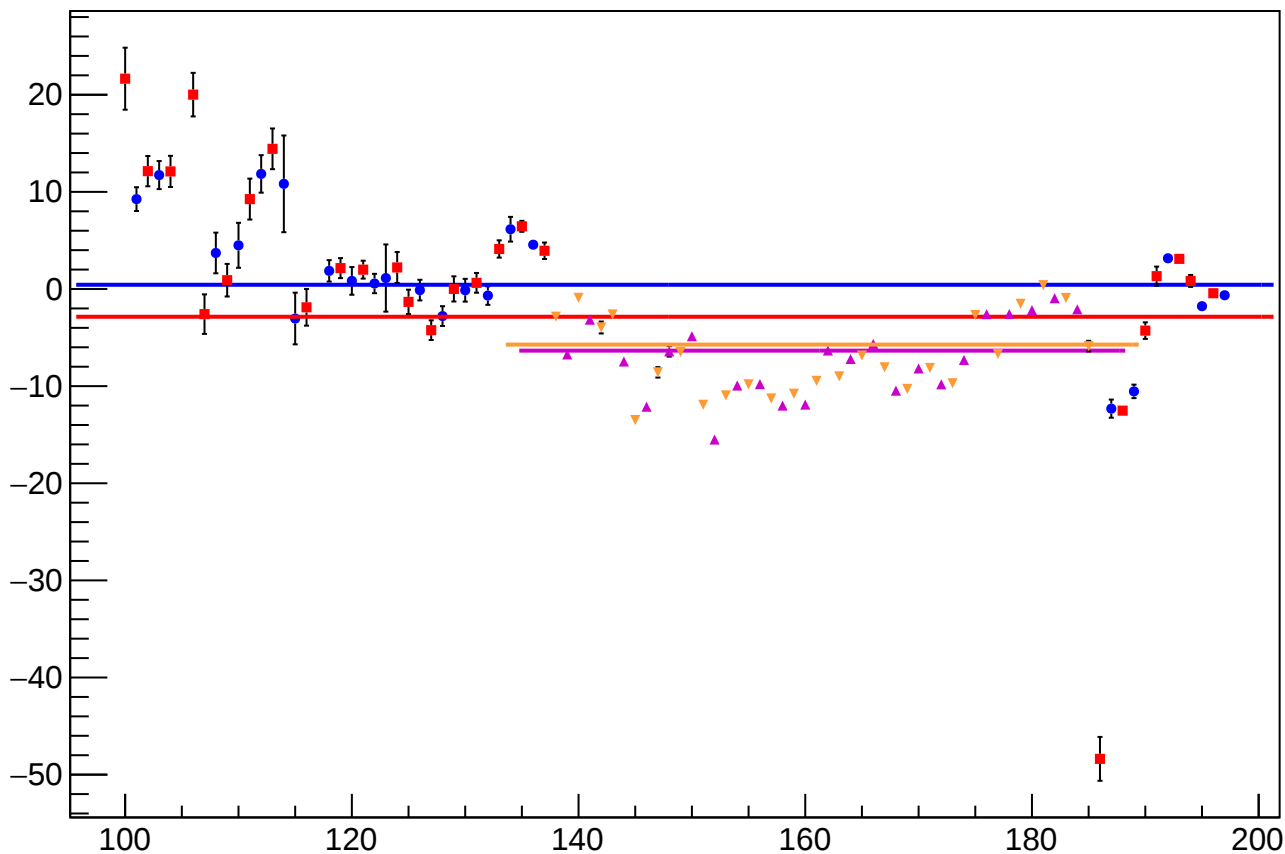
Right: -58.830 ± 0.091 χ^2/NDF : 9573.6/47

In: -53.039 ± 0.052 χ^2/NDF : 8809.3/44

Out: -53.414 ± 0.050 χ^2/NDF : 11080.6/50

All: -53.234 ± 0.036 χ^2/NDF : 19916.6/95

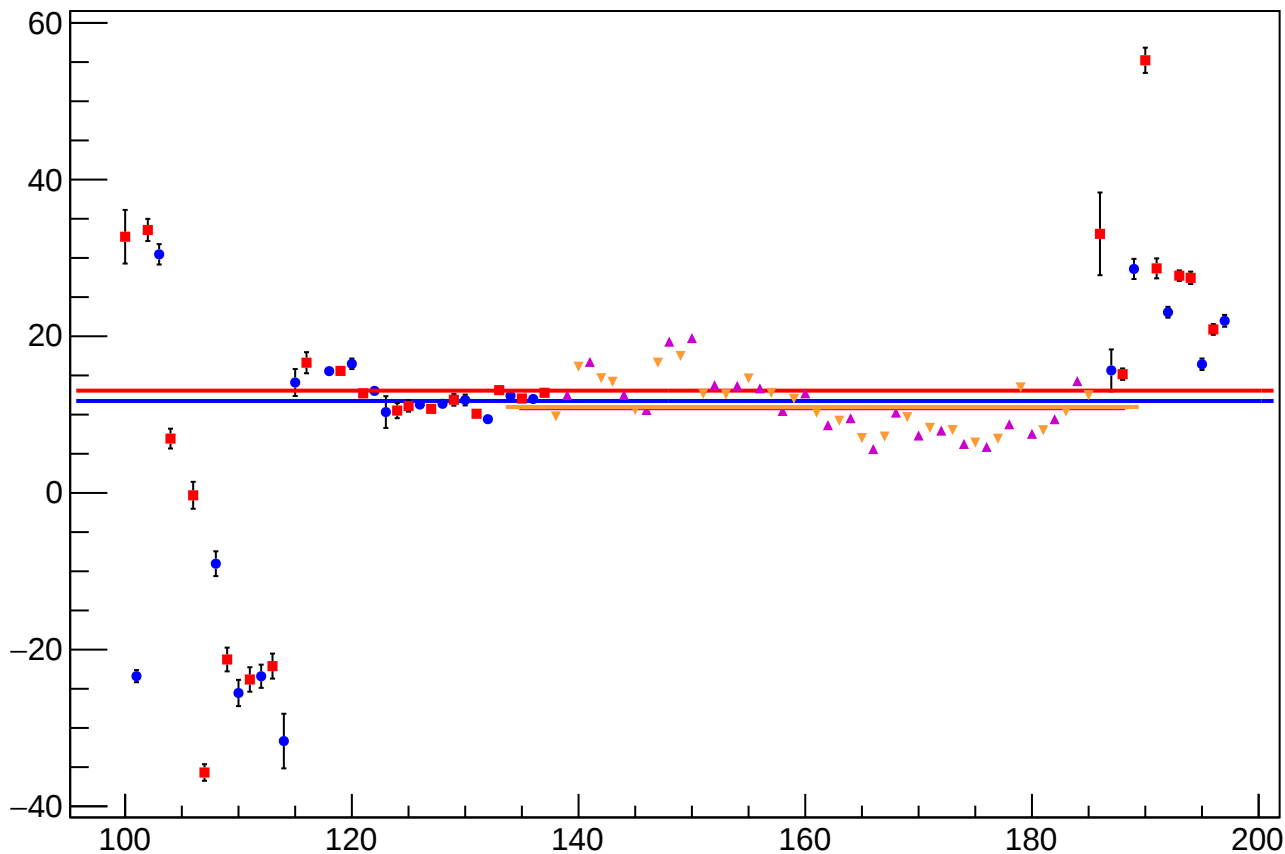
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.437 ± 0.182 $\chi^2/\text{NDF}: 787.1/21$
 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: -1.465 ± 0.118 $\chi^2/\text{NDF}: 3794.8/47$
 In: -5.498 ± 0.064 $\chi^2/\text{NDF}: 5389.2/44$
 Out: -5.266 ± 0.062 $\chi^2/\text{NDF}: 7087.4/50$
 All: -5.378 ± 0.045 $\chi^2/\text{NDF}: 12483.3/95$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.742 $\pm$ 0.147 χ^2 /NDF: 4438.9/21

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24

Right Out: 13.060 $\pm$ 0.145 χ^2 /NDF: 5893.4/25

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF:3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

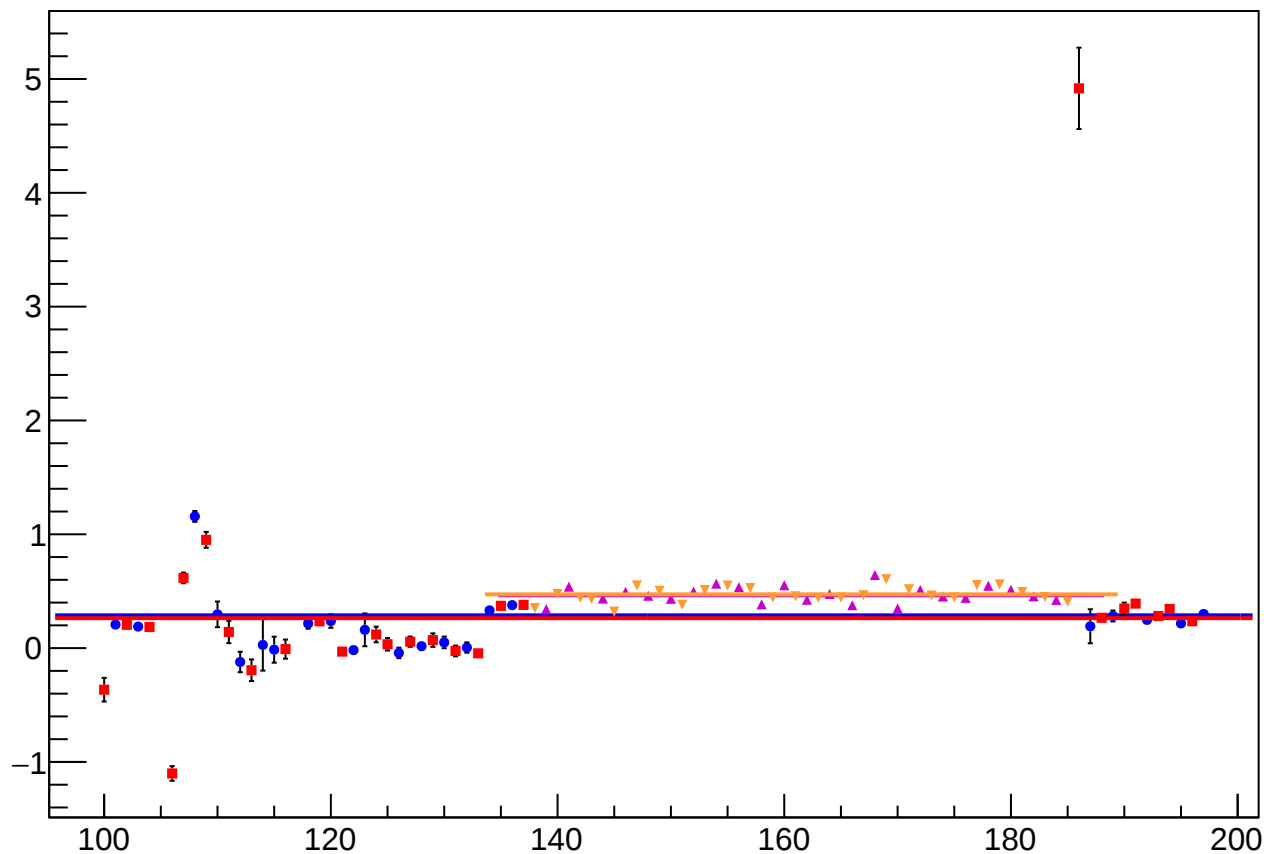
Right: 12.411 $\pm$ 0.103 χ^2 /NDF: 10373.2/47

In: 10.958 $\pm$ 0.058 χ^2 /NDF:8019.5/44

Out: 11.286 $\pm$ 0.056 χ^2 /NDF:8708.5/50

All: 11.127 $\pm$ 0.040 χ^2 /NDF: 16744.4/95

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.288 $\pm$ 0.007 χ^2 /NDF: 665.3/21

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

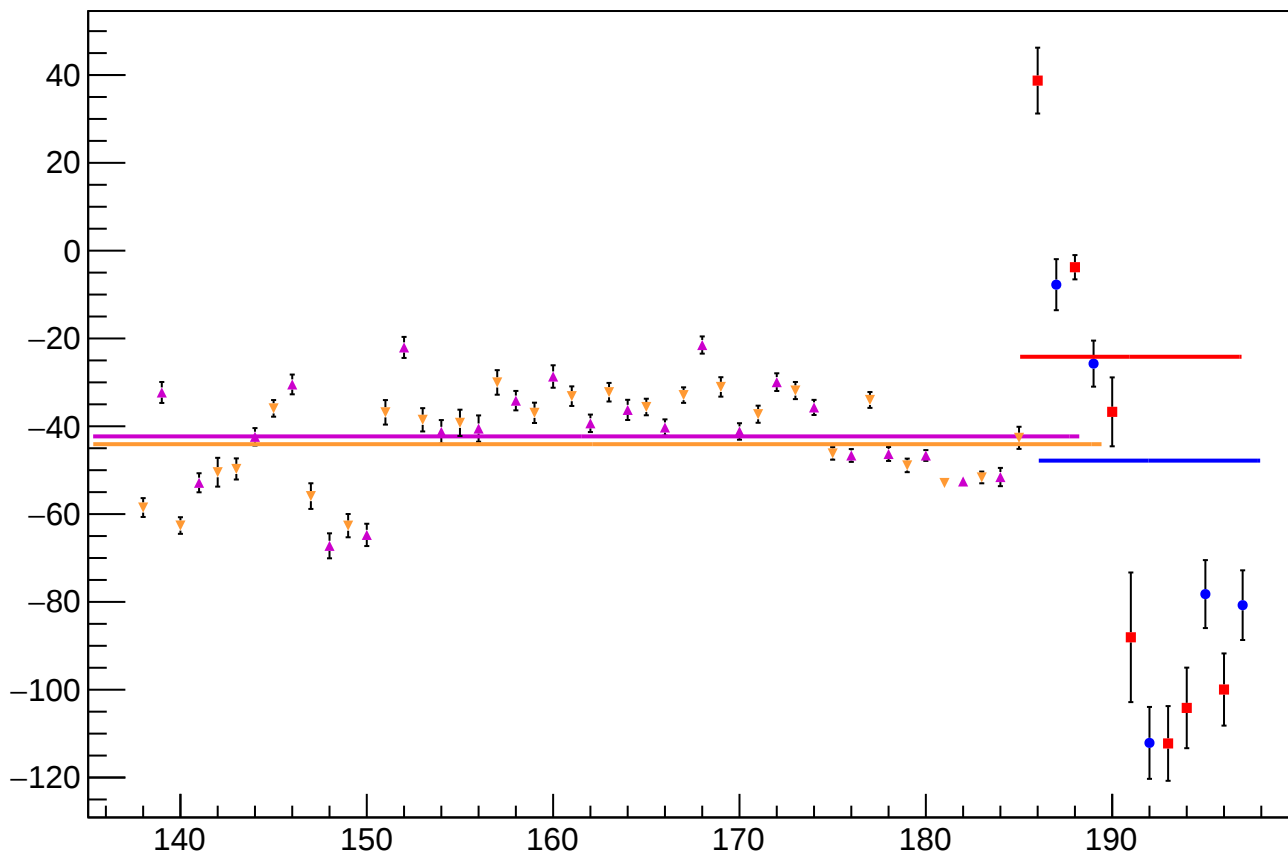
Right: 0.275 $\pm$ 0.005 χ^2 /NDF: 1863.0/47

In: 0.439 $\pm$ 0.003 χ^2 /NDF:1964.0/44

Out: 0.442 $\pm$ 0.003 χ^2 /NDF:2541.3/50

All: 0.441 $\pm$ 0.002 χ^2 /NDF: 4505.8/95

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -47.822 ± 2.969 χ^2/NDF : 159.5/4

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -24.167 ± 2.183 χ^2/NDF : 414.2/6

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

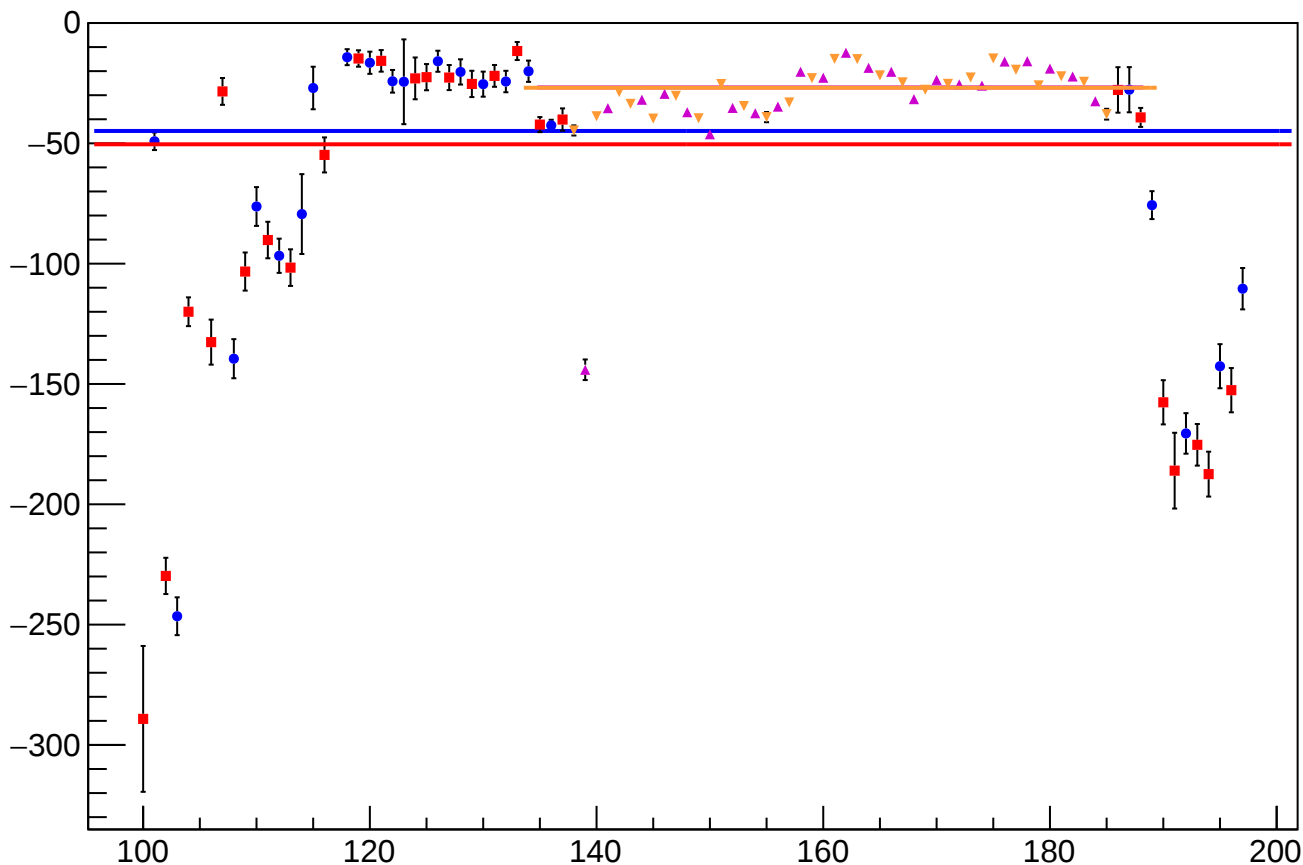
Right: -32.466 ± 1.759 χ^2/NDF : 614.9/11

In: -42.402 ± 0.396 χ^2/NDF : 803.5/27

Out: -43.466 ± 0.383 χ^2/NDF : 1127.4/31

All: -42.952 ± 0.275 χ^2/NDF : 1934.6/59

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -44.859 ± 1.093 $\chi^2/\text{NDF}: 1575.3/21$

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 $\chi^2/\text{NDF}: 2025.6/47$

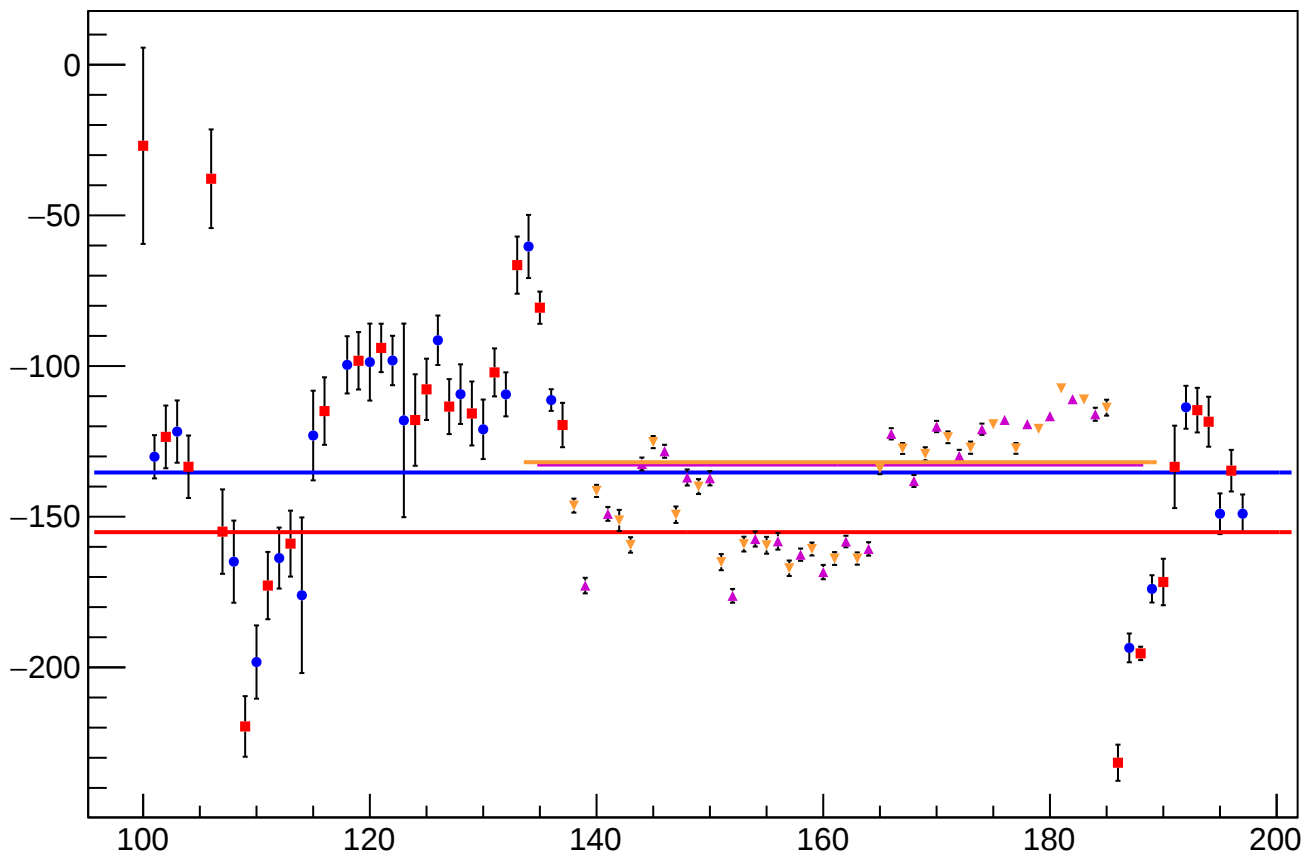
Right: -47.582 ± 0.779 $\chi^2/\text{NDF}: 3747.0/47$

In: -28.254 ± 0.313 $\chi^2/\text{NDF}: 3221.3/44$

Out: -28.661 ± 0.304 $\chi^2/\text{NDF}: 3203.2/50$

All: -28.463 ± 0.218 $\chi^2/\text{NDF}: 6425.4/95$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -135.325 ± 1.603 $\chi^2/\text{NDF}: 473.3/21$

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 $\chi^2/\text{NDF}: 4921.5/47$

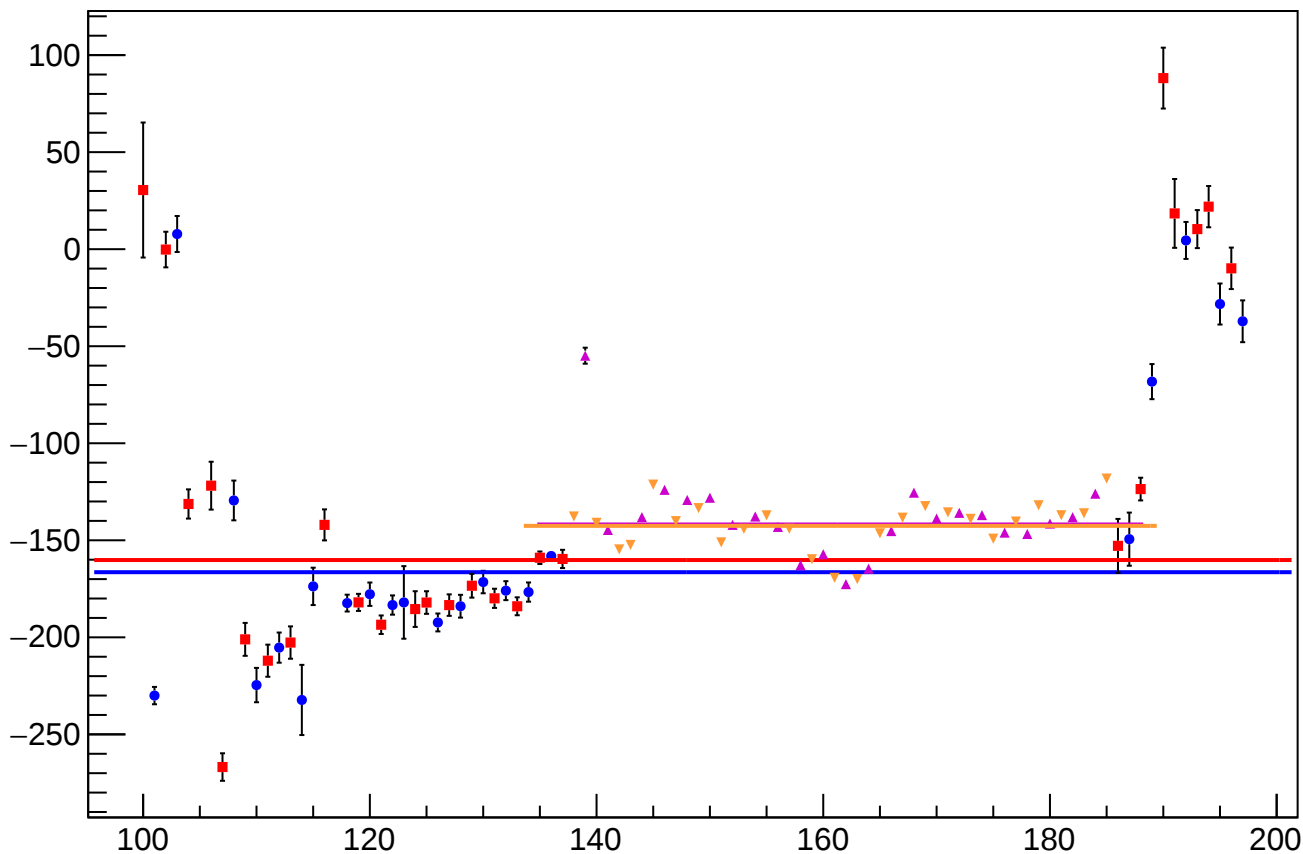
Right: -146.551 ± 1.055 $\chi^2/\text{NDF}: 1755.6/47$

In: -132.844 ± 0.388 $\chi^2/\text{NDF}: 2956.0/44$

Out: -133.593 ± 0.377 $\chi^2/\text{NDF}: 3889.8/50$

All: -133.228 ± 0.270 $\chi^2/\text{NDF}: 6847.7/95$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -166.437 ± 1.233 $\chi^2/\text{NDF}: 1497.7/21$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -160.172 ± 1.279 $\chi^2/\text{NDF}: 2024.1/25$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

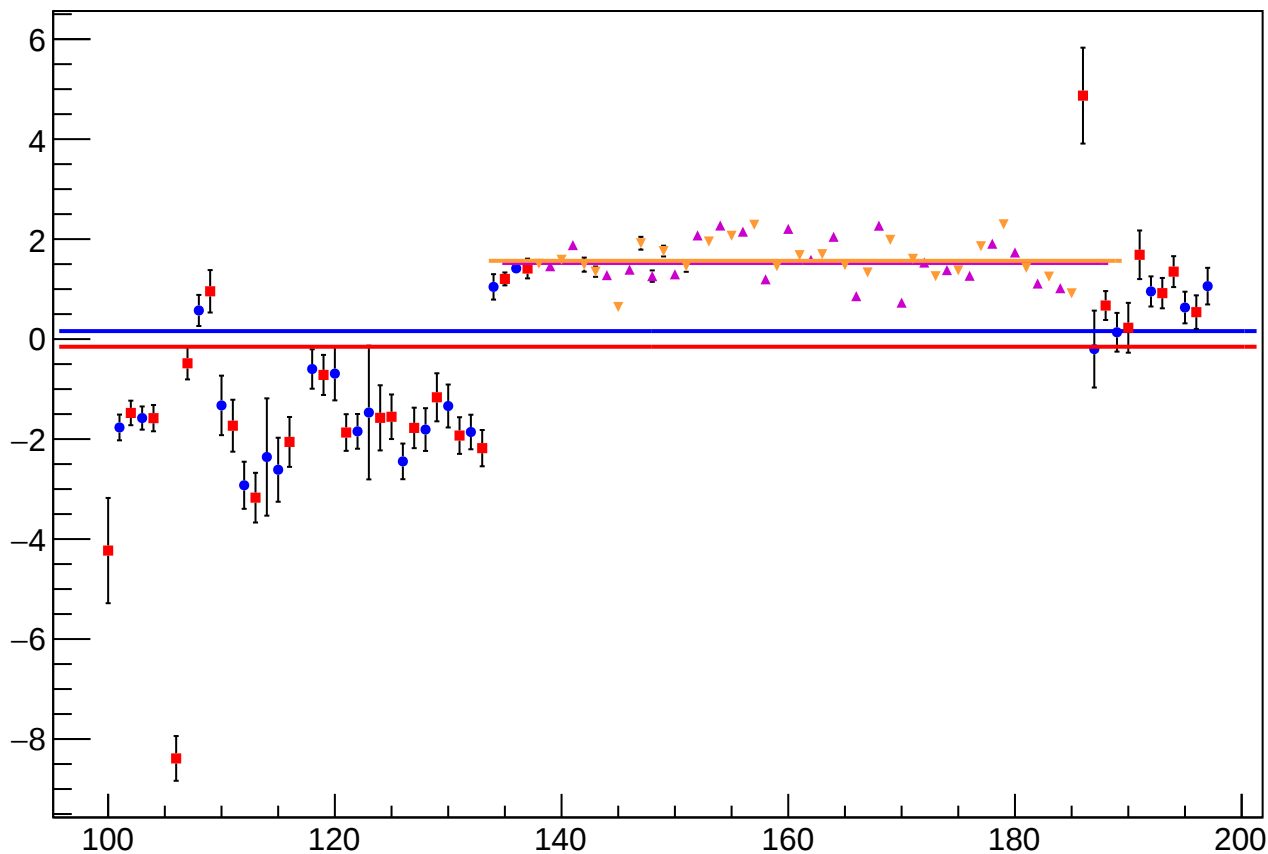
Right: -163.419 ± 0.888 $\chi^2/\text{NDF}: 3534.3/47$

In: -143.824 ± 0.349 $\chi^2/\text{NDF}: 3407.6/44$

Out: -143.817 ± 0.341 $\chi^2/\text{NDF}: 3347.9/50$

All: -143.820 ± 0.244 $\chi^2/\text{NDF}: 6755.4/95$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.160 ± 0.062 χ^2/NDF : 542.2/21

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: -0.153 ± 0.064 χ^2/NDF : 858.6/25

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

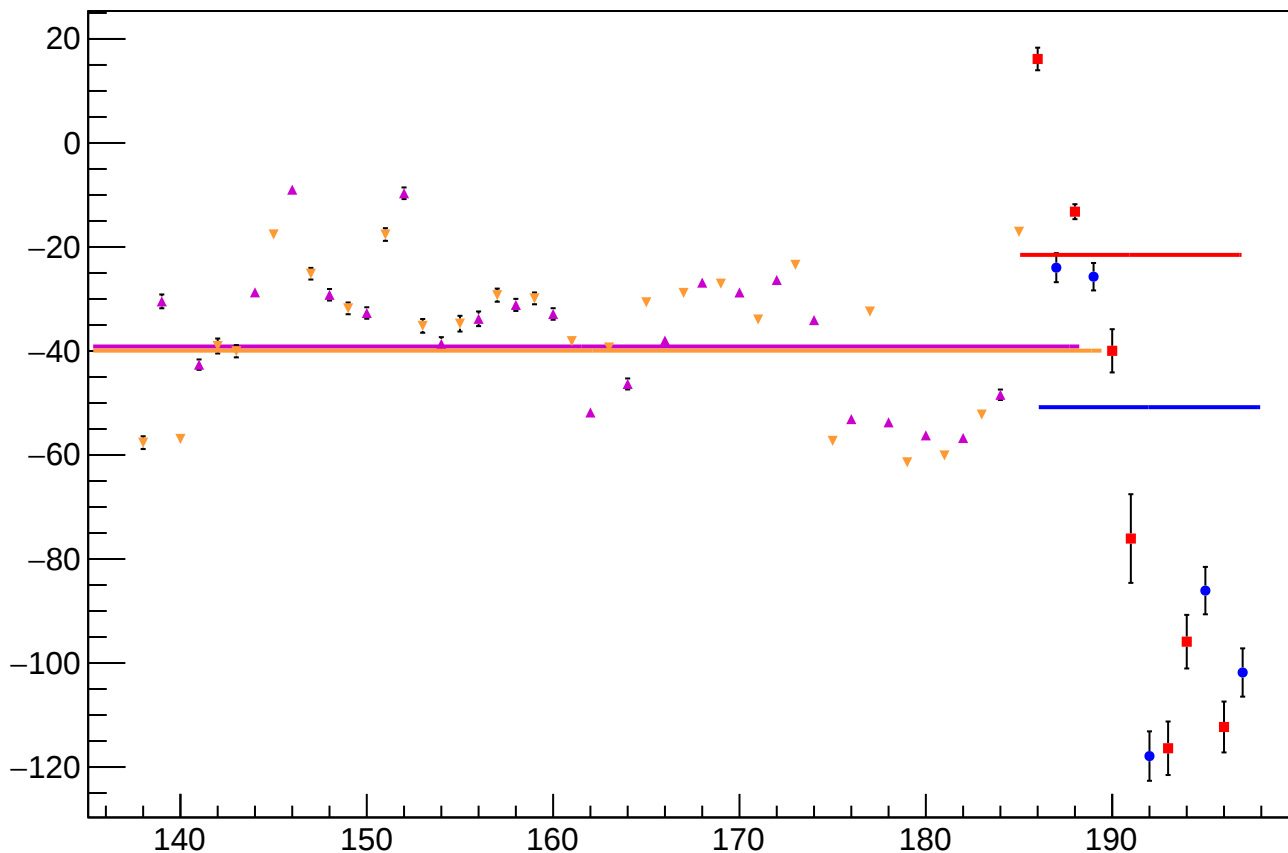
Right: 0.007 ± 0.044 χ^2/NDF : 1413.3/47

In: 1.433 ± 0.016 χ^2/NDF : 1728.9/44

Out: 1.462 ± 0.016 χ^2/NDF : 2088.5/50

All: 1.448 ± 0.011 χ^2/NDF : 3819.1/95

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected

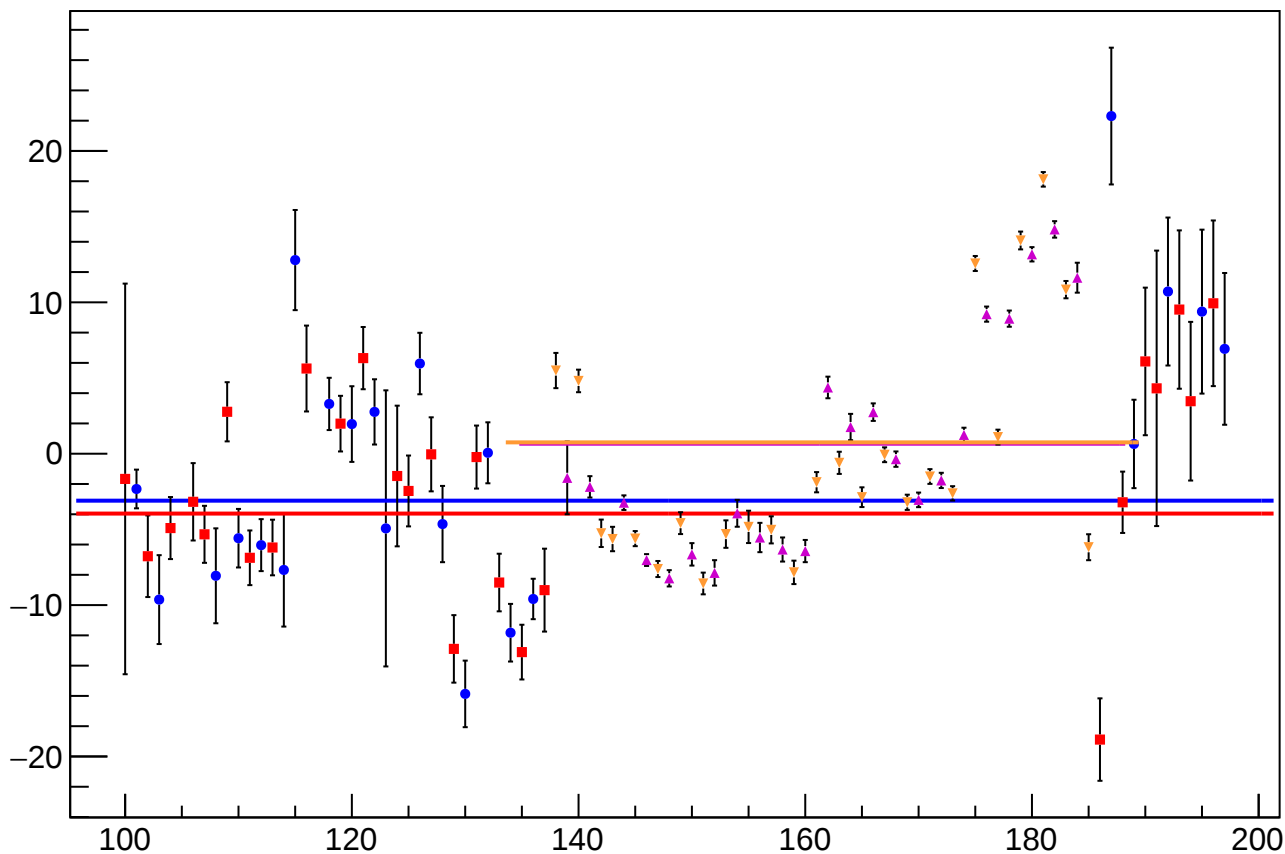


Right In: -50.807 ± 1.561 $\chi^2/\text{NDF}: 562.5/4$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -21.518 ± 1.064 $\chi^2/\text{NDF}: 1287.1/6$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -30.810 ± 0.879 $\chi^2/\text{NDF}: 2089.9/11$
 In: -39.251 ± 0.154 $\chi^2/\text{NDF}: 9152.3/27$
 Out: -39.561 ± 0.152 $\chi^2/\text{NDF}: 11387.0/31$

All: -39.408 ± 0.108 $\chi^2/\text{NDF}: 20541.4/59$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.102 ± 0.483 $\chi^2/\text{NDF}: 213.9/21$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.954 ± 0.476 $\chi^2/\text{NDF}: 172.4/25$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

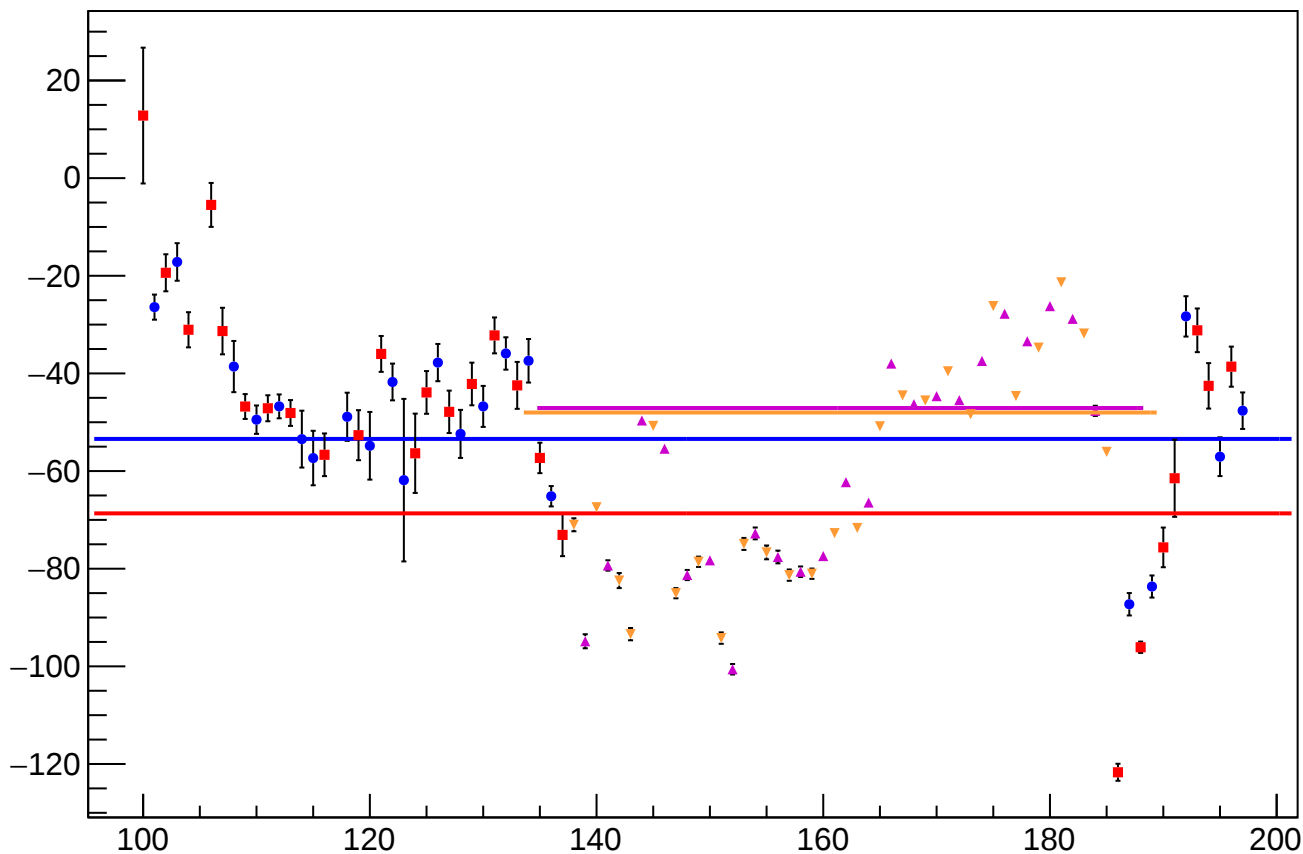
Right: -3.534 ± 0.339 $\chi^2/\text{NDF}: 387.9/47$

In: 0.426 ± 0.120 $\chi^2/\text{NDF}: 3608.7/44$

Out: 0.449 ± 0.120 $\chi^2/\text{NDF}: 4234.8/50$

All: 0.437 ± 0.085 $\chi^2/\text{NDF}: 7843.6/95$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.416 ± 0.734 $\chi^2/\text{NDF}: 755.3/21$

Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$

Right Out: -68.666 ± 0.620 $\chi^2/\text{NDF}: 2745.2/25$

Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$

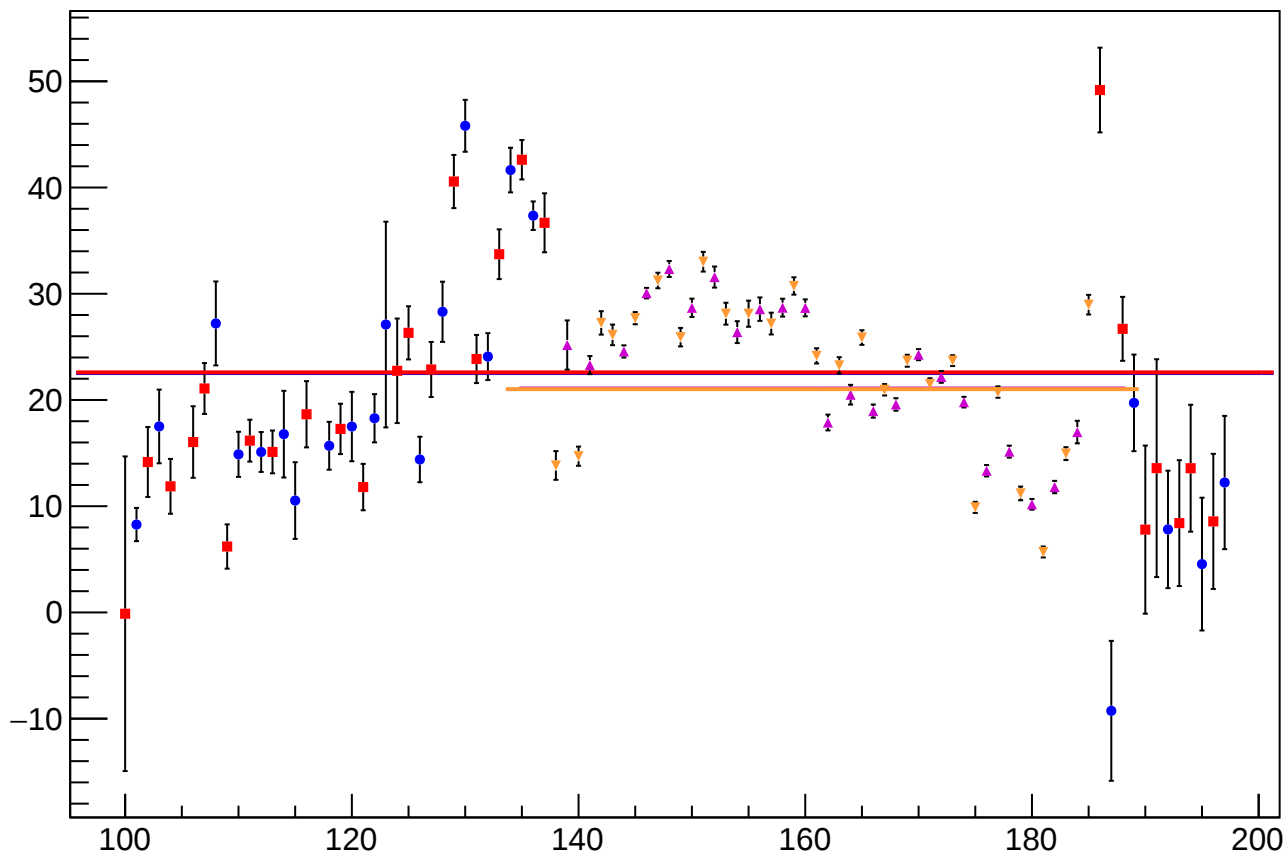
Right: -62.313 ± 0.474 $\chi^2/\text{NDF}: 3752.2/47$

In: -47.356 ± 0.152 $\chi^2/\text{NDF}: 16341.7/44$

Out: -49.216 ± 0.150 $\chi^2/\text{NDF}: 20739.0/50$

All: -48.298 ± 0.107 $\chi^2/\text{NDF}: 37156.5/95$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.536 $\pm$ 0.547 χ^2 /NDF: 500.0/21

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

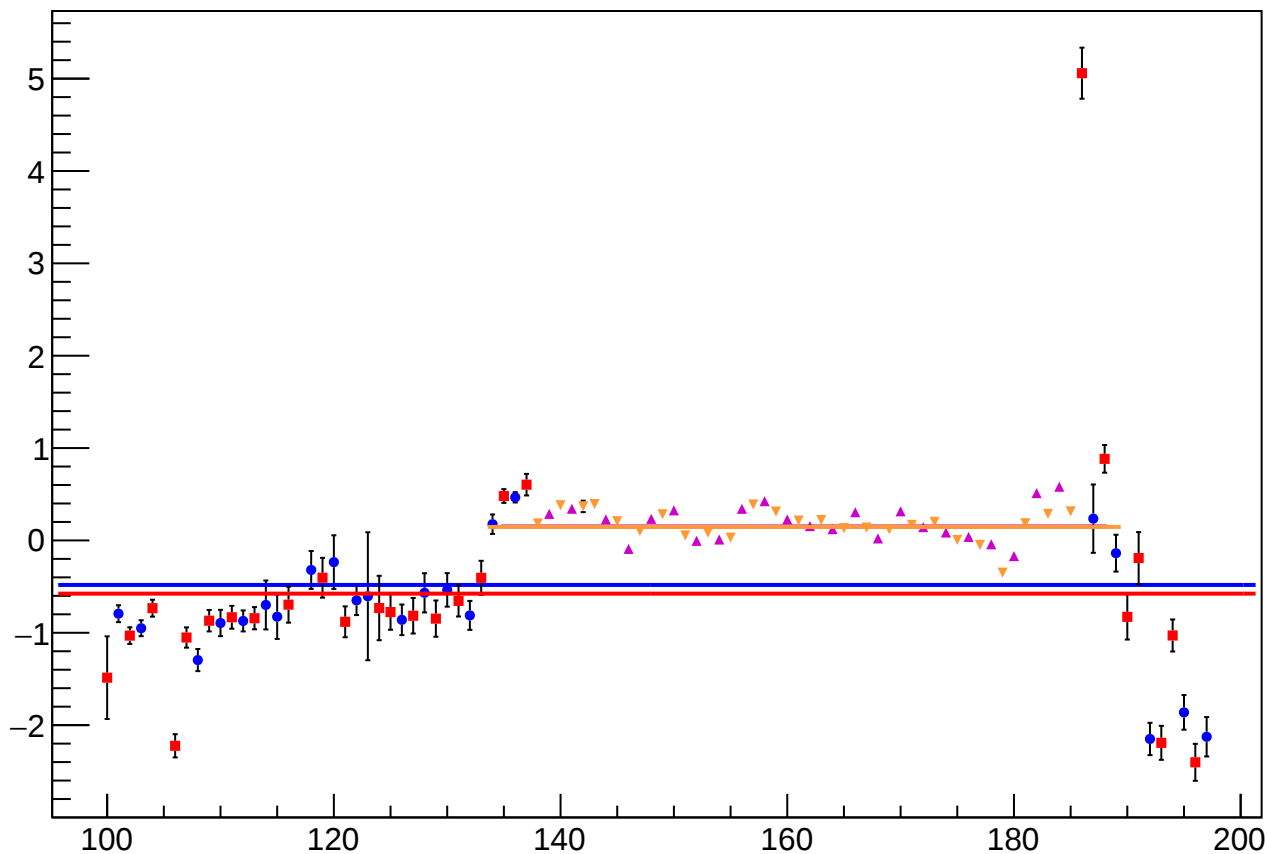
Right: 22.567 $\pm$ 0.387 χ^2 /NDF: 930.0/47

In: 21.168 $\pm$ 0.135 χ^2 /NDF:2679.9/44

Out: 21.115 $\pm$ 0.135 χ^2 /NDF:3237.0/50

All: 21.141 $\pm$ 0.095 χ^2 /NDF: 5917.0/95

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.482 ± 0.029 χ^2/NDF : 661.3/21

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.576 ± 0.028 χ^2/NDF : 1233.1/25

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

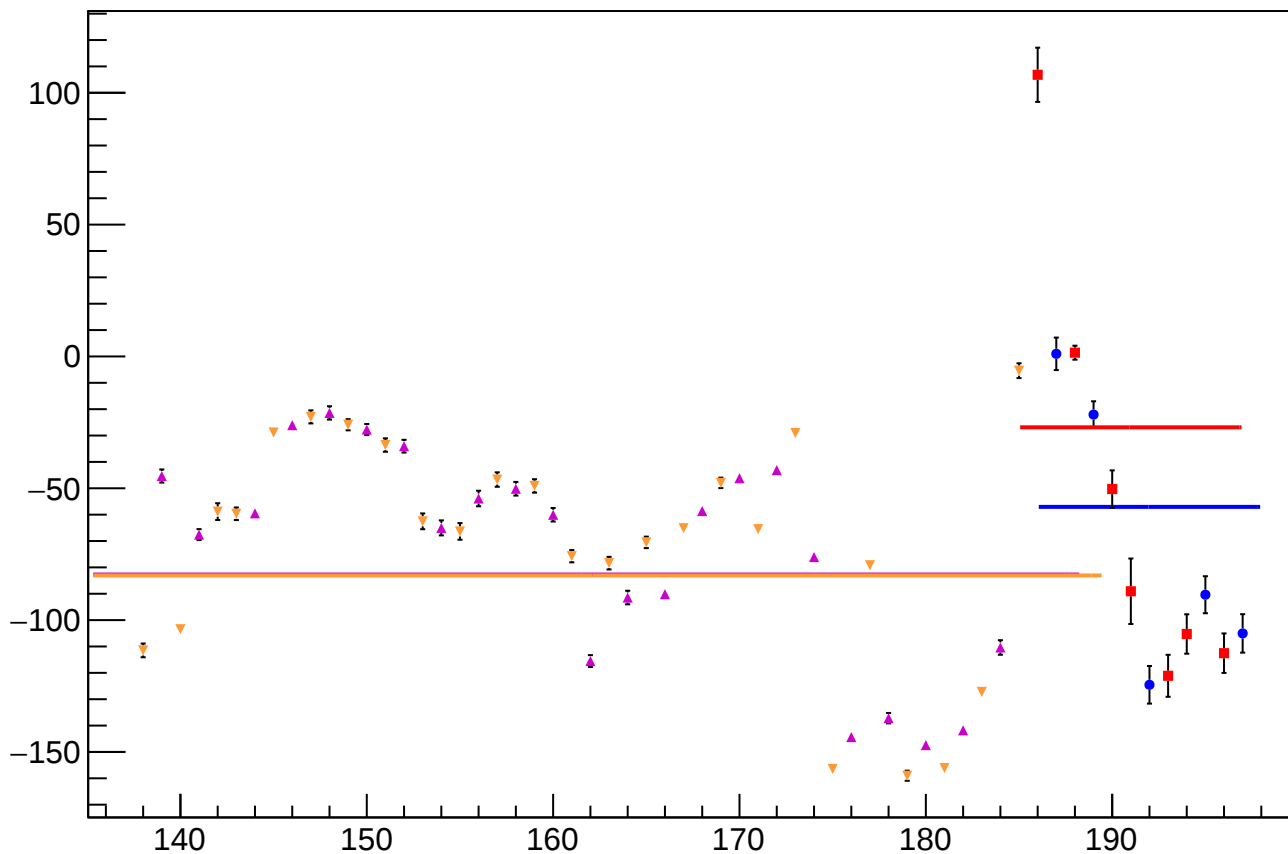
Right: -0.530 ± 0.020 χ^2/NDF : 1900.0/47

In: 0.121 ± 0.006 χ^2/NDF : 1995.0/44

Out: 0.111 ± 0.006 χ^2/NDF : 2472.8/50

All: 0.116 ± 0.004 χ^2/NDF : 4469.0/95

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -57.052 ± 2.836 $\chi^2/\text{NDF}: 292.2/4$

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 $\chi^2/\text{NDF}: 24659.1/47$

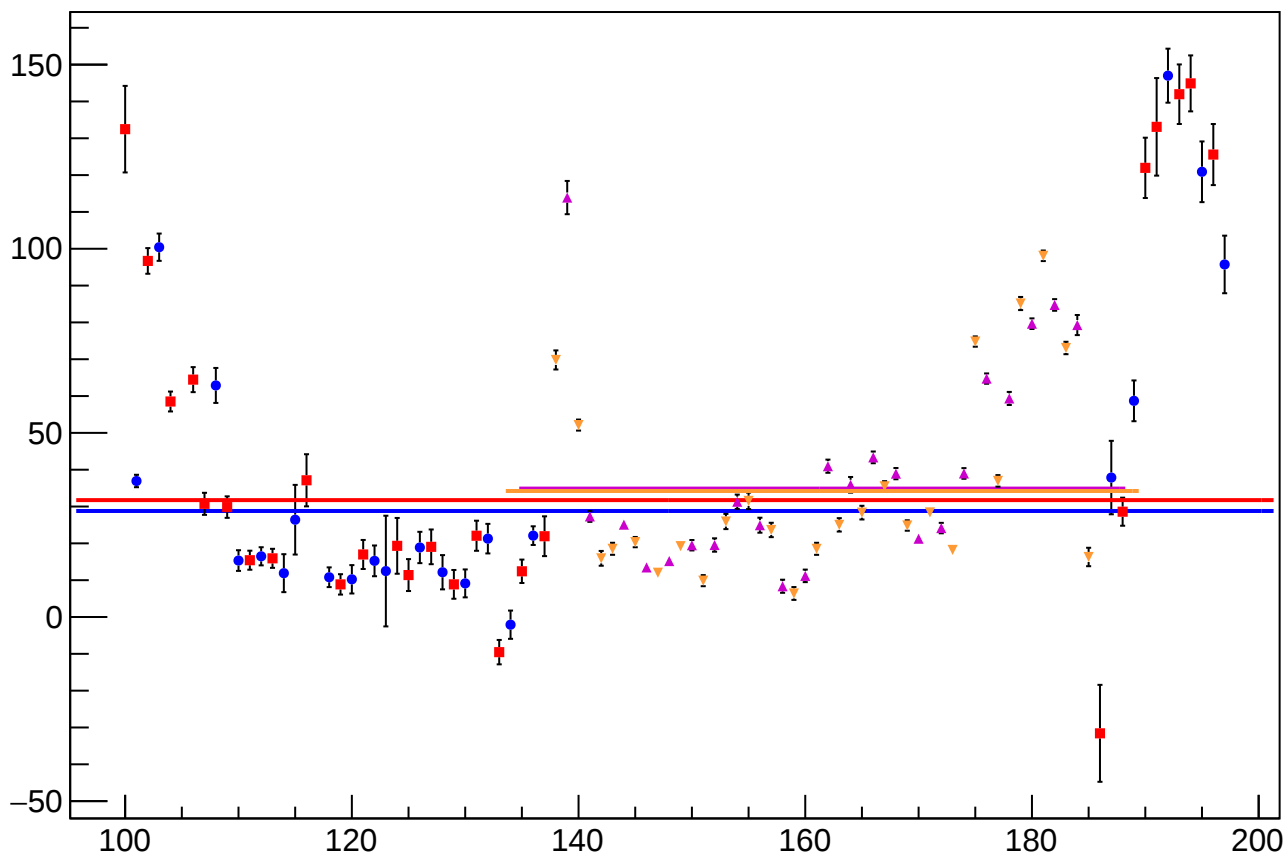
Right: -37.489 ± 1.681 $\chi^2/\text{NDF}: 1065.5/11$

In: -82.172 ± 0.411 $\chi^2/\text{NDF}: 11213.7/27$

Out: -81.017 ± 0.399 $\chi^2/\text{NDF}: 15215.2/31$

All: -81.578 ± 0.286 $\chi^2/\text{NDF}: 26432.9/59$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 28.791 ± 0.784 $\chi^2/\text{NDF}: 1195.9/21$

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 $\chi^2/\text{NDF}: 10910.7/47$

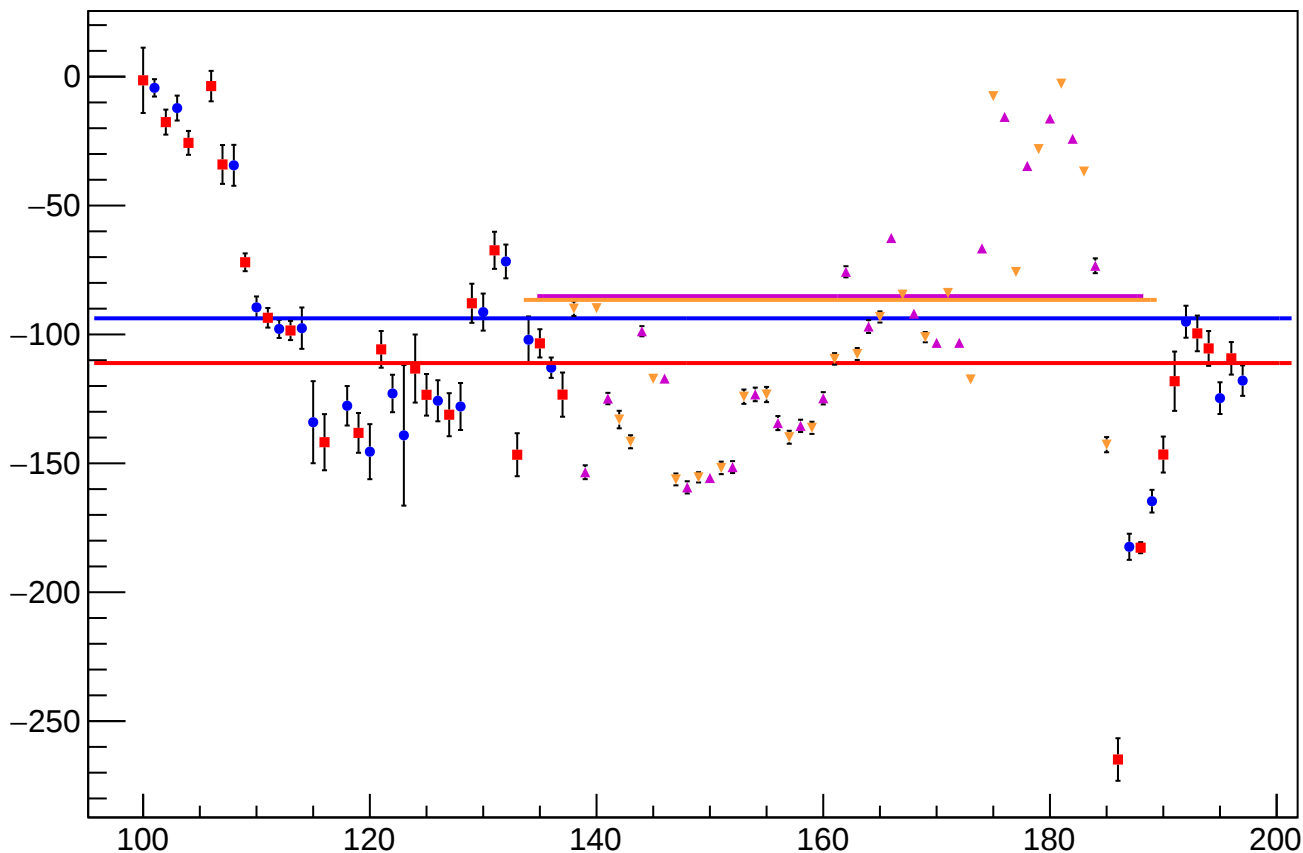
Right: 30.283 ± 0.551 $\chi^2/\text{NDF}: 2982.3/47$

In: 33.959 ± 0.304 $\chi^2/\text{NDF}: 5963.1/44$

Out: 33.858 ± 0.296 $\chi^2/\text{NDF}: 7980.6/50$

All: 33.907 ± 0.212 $\chi^2/\text{NDF}: 13943.7/95$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -93.745 ± 1.223 χ^2/NDF : 1790.2/21

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -111.099 ± 1.070 χ^2/NDF : 2972.7/25

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

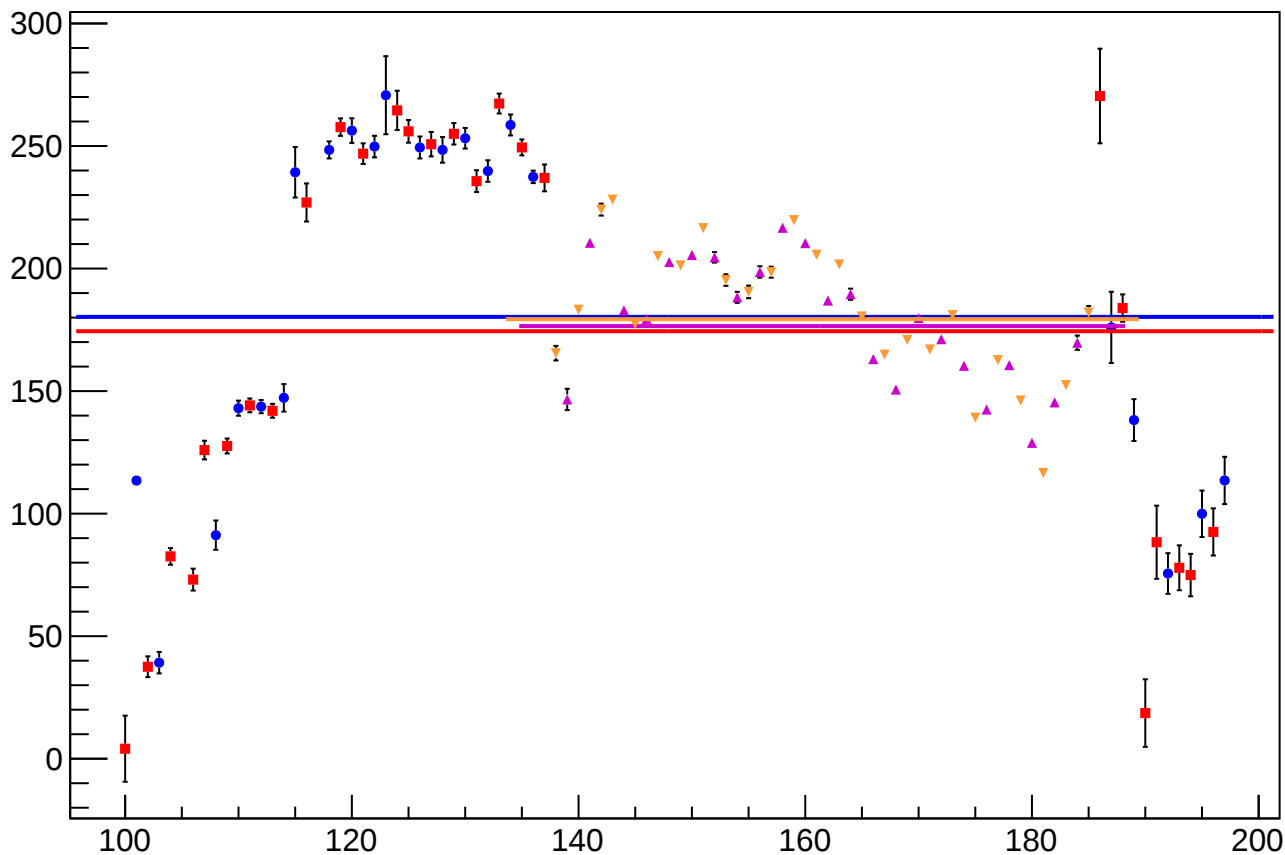
Right: -103.576 ± 0.805 χ^2/NDF : 4876.9/47

In: -86.023 ± 0.393 χ^2/NDF : 14675.9/44

Out: -89.712 ± 0.382 χ^2/NDF : 17946.2/50

All: -87.922 ± 0.274 χ^2/NDF : 32667.4/95

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 180.288 $\pm$ 0.900 χ^2 /NDF: 5633.5/21

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

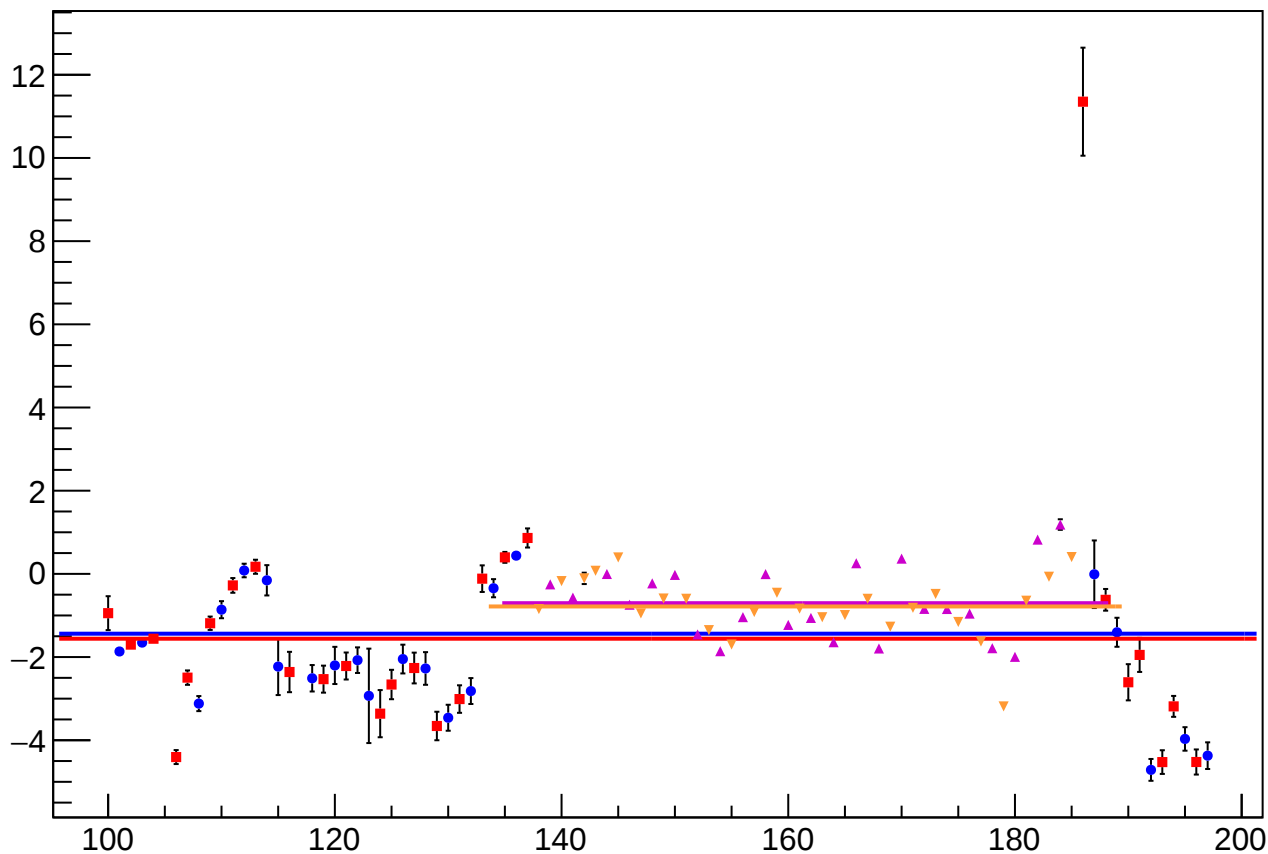
Right: 177.347 $\pm$ 0.634 χ^2 /NDF: 12509.2/47

In: 177.077 $\pm$ 0.343 χ^2 /NDF: 10074.4/44

Out: 178.667 $\pm$ 0.335 χ^2 /NDF: 12862.6/50

All: 177.890 $\pm$ 0.240 χ^2 /NDF: 22948.0/95

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.438 ± 0.046 χ^2/NDF : 968.9/21

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.559 ± 0.043 χ^2/NDF : 1298.6/25

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

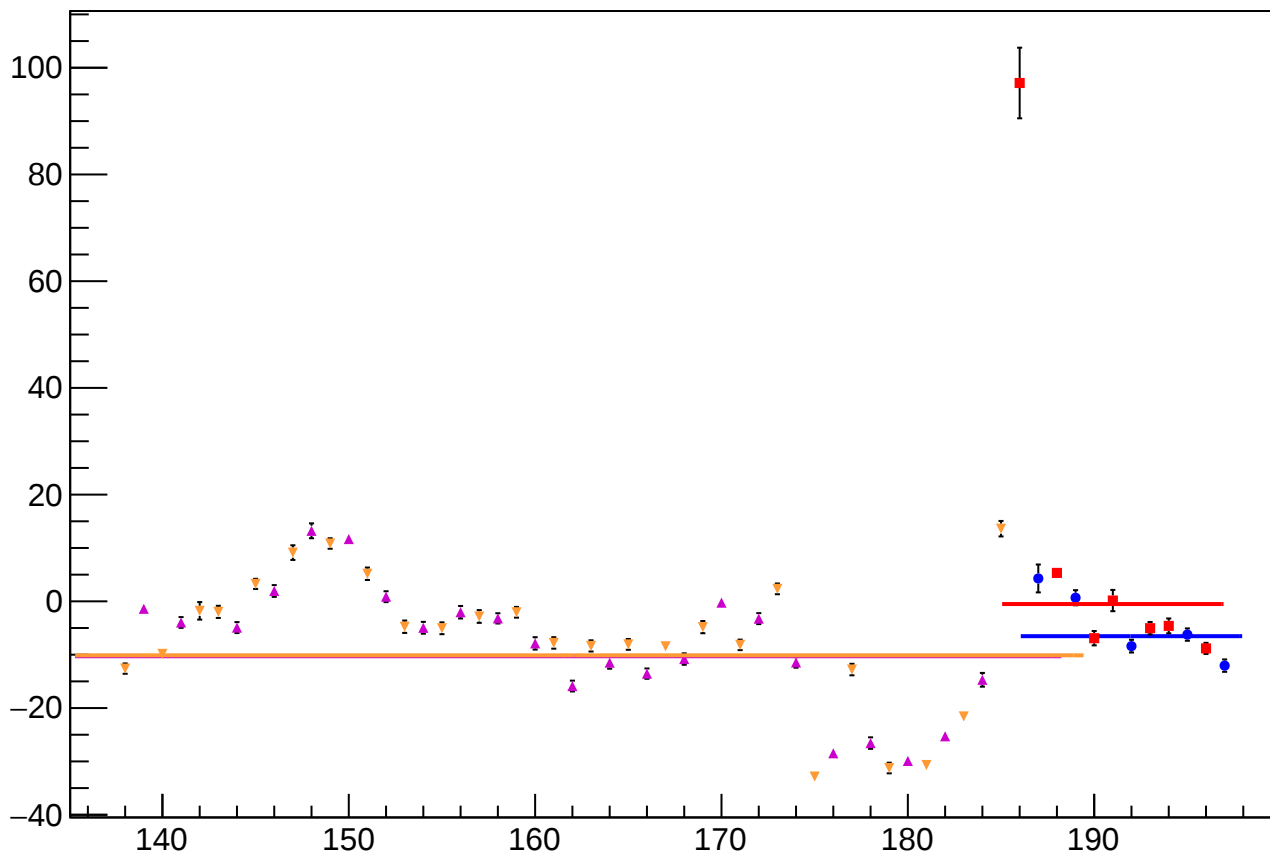
Right: -1.502 ± 0.031 χ^2/NDF : 2271.1/47

In: -0.793 ± 0.016 χ^2/NDF : 3602.2/44

Out: -0.884 ± 0.015 χ^2/NDF : 3353.4/50

All: -0.840 ± 0.011 χ^2/NDF : 6972.5/95

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.531 ± 0.594 $\chi^2/\text{NDF}: 68.0/4$

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 $\chi^2/\text{NDF}: 7589.5/47$

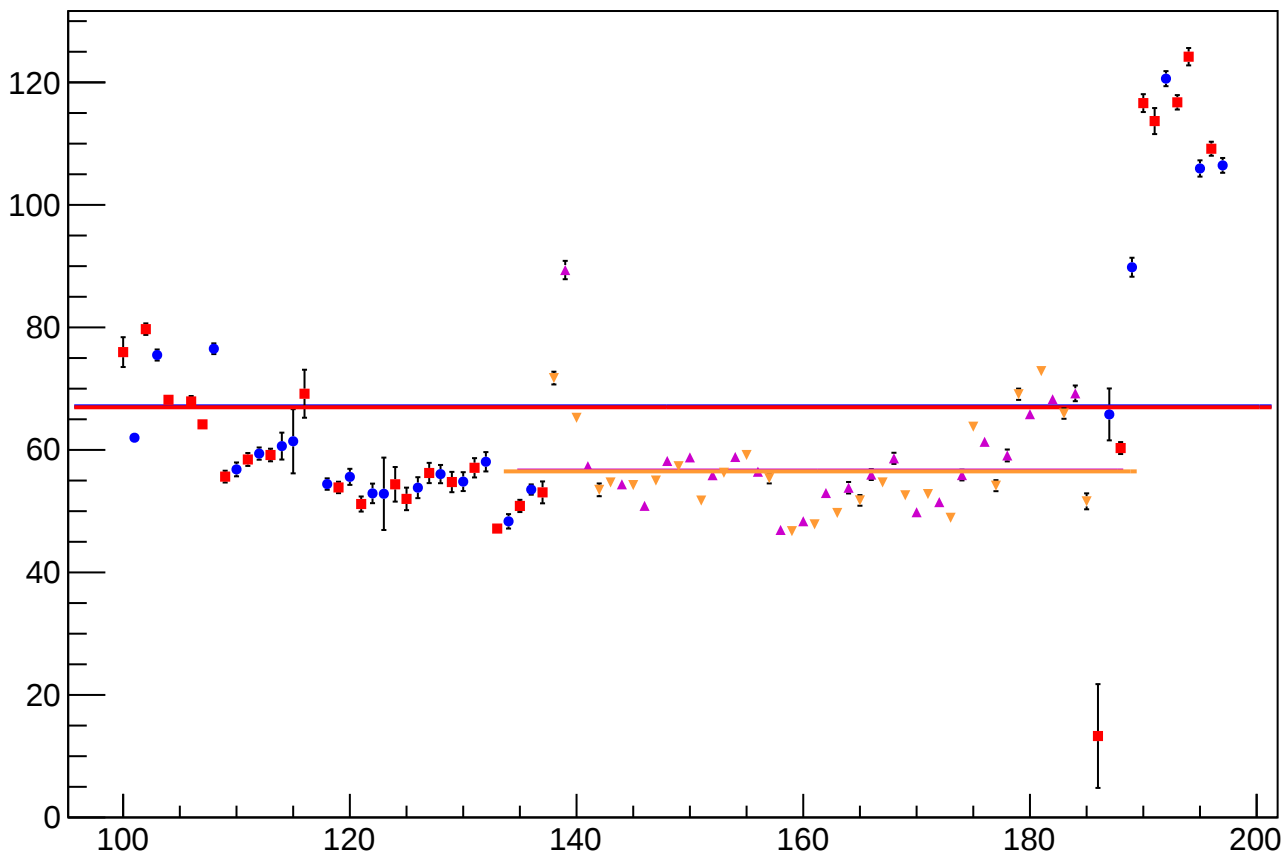
Right: -2.568 ± 0.348 $\chi^2/\text{NDF}: 546.6/11$

In: -9.889 ± 0.194 $\chi^2/\text{NDF}: 3554.8/27$

Out: -8.379 ± 0.182 $\chi^2/\text{NDF}: 4961.0/31$

All: -9.086 ± 0.133 $\chi^2/\text{NDF}: 8547.9/59$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 67.116 $\pm$ 0.244 χ^2 /NDF: 5550.7/21

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

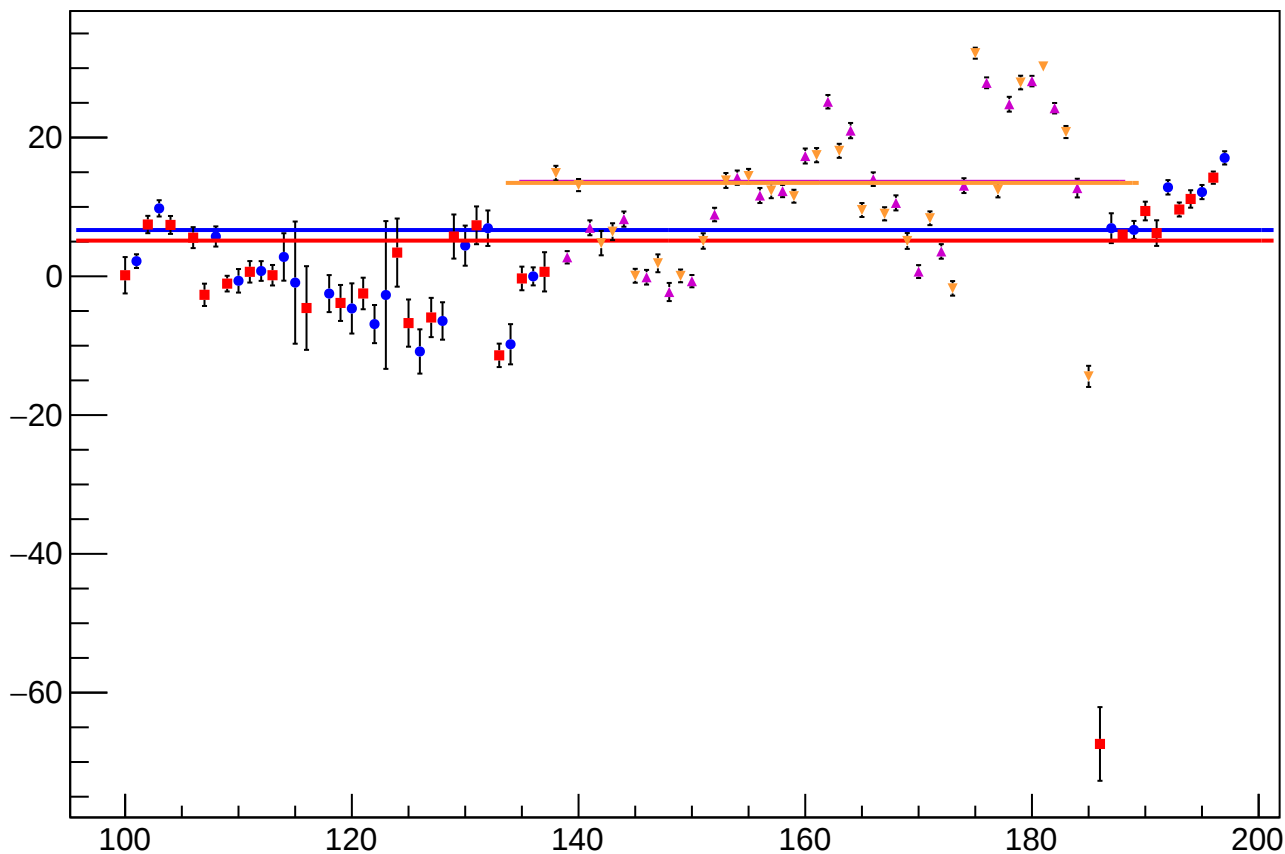
Right: 67.031 $\pm$ 0.165 χ^2 /NDF: 14298.6/47

In: 59.929 $\pm$ 0.137 χ^2 /NDF:8424.6/44

Out: 60.007 $\pm$ 0.130 χ^2 /NDF:12171.1/50

All: 59.970 $\pm$ 0.094 χ^2 /NDF: 20595.9/95

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.669 ± 0.342 χ^2/NDF : 407.2/21

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

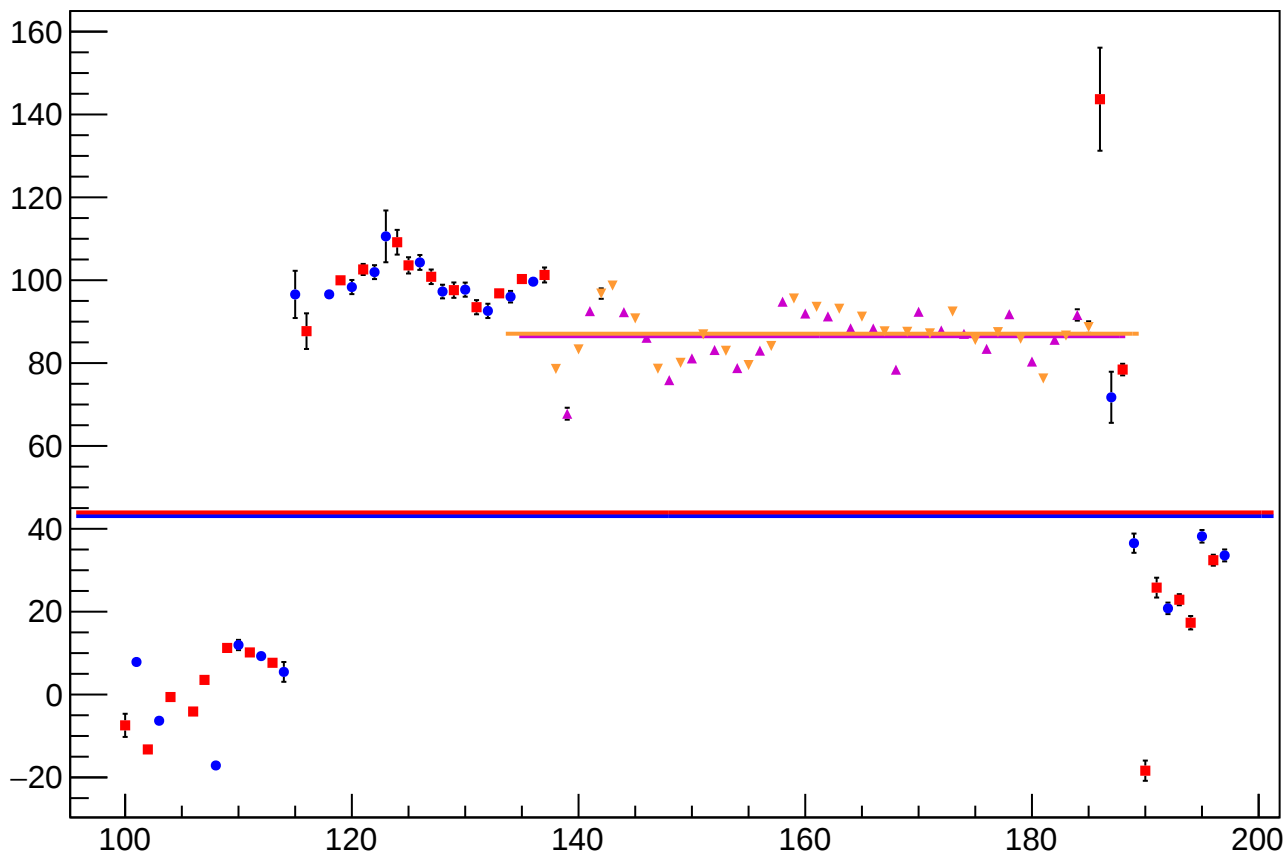
Right: 5.747 ± 0.215 χ^2/NDF : 1013.7/47

In: 11.794 ± 0.176 χ^2/NDF : 3026.3/44

Out: 10.586 ± 0.163 χ^2/NDF : 3920.1/50

All: 11.145 ± 0.119 χ^2/NDF : 6971.9/95

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.078 $\pm$ 0.284 χ^2 /NDF: 25073.3/21

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

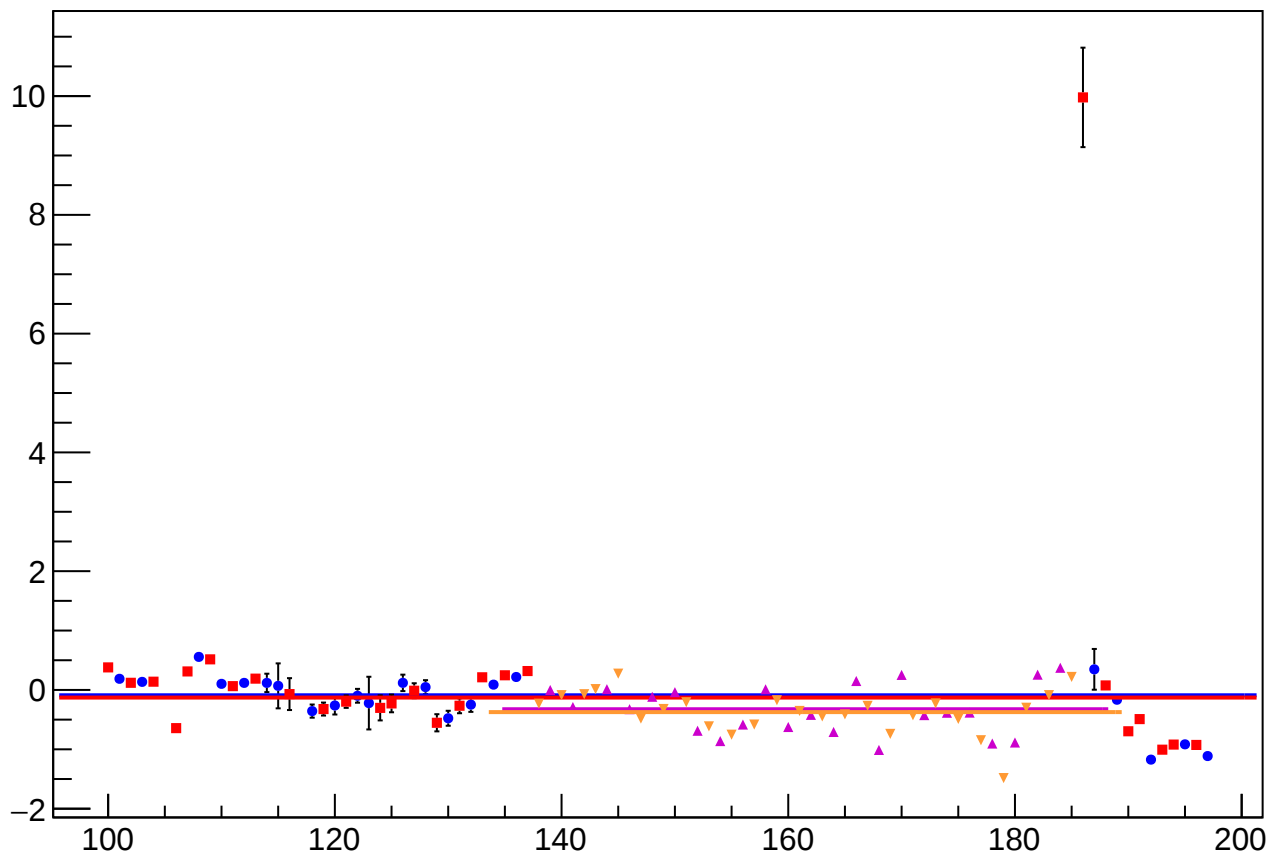
Right: 43.546 $\pm$ 0.194 χ^2 /NDF: 55319.4/47

In: 73.592 $\pm$ 0.155 χ^2 /NDF:42491.7/44

Out: 73.533 $\pm$ 0.148 χ^2 /NDF:49557.1/50

All: 73.561 $\pm$ 0.107 χ^2 /NDF: 92048.9/95

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.090 ± 0.012 χ^2/NDF : 2108.6/21

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

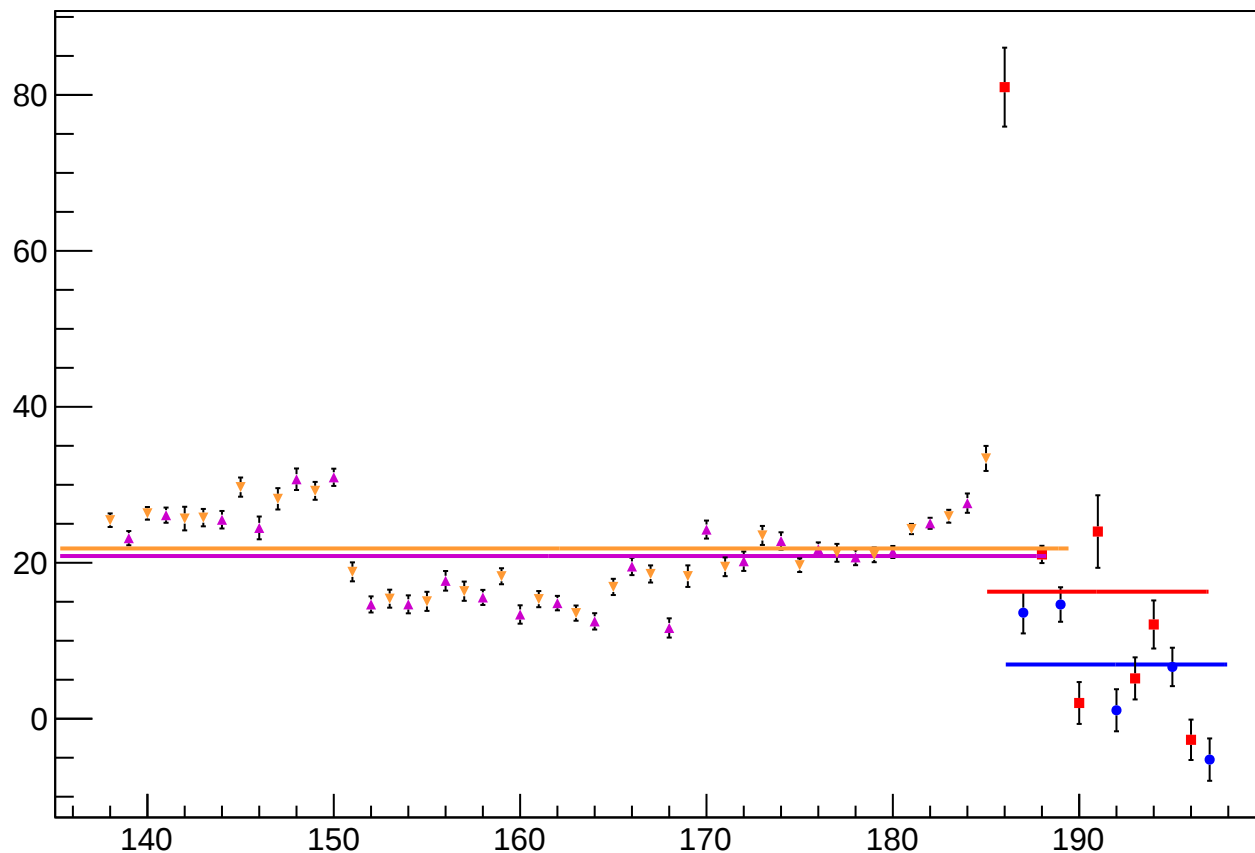
Right: -0.111 ± 0.008 χ^2/NDF : 4317.0/47

In: -0.252 ± 0.007 χ^2/NDF : 4648.4/44

Out: -0.287 ± 0.007 χ^2/NDF : 4189.8/50

All: -0.270 ± 0.005 χ^2/NDF : 8852.4/95

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.955 $\pm$ 1.130 χ^2 /NDF: 43.3/4

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 16.292 $\pm$ 0.836 χ^2 /NDF: 285.7/6

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

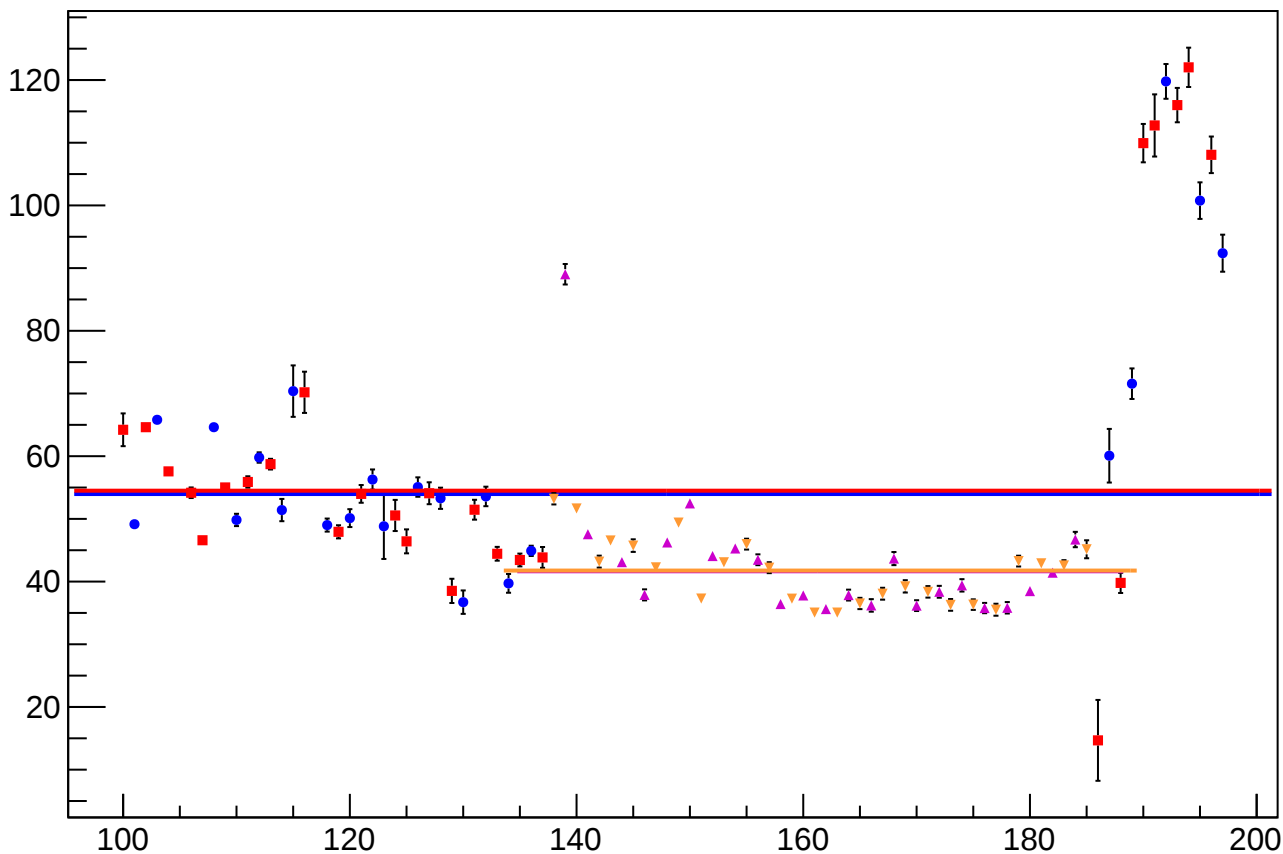
Right: 12.989 $\pm$ 0.672 χ^2 /NDF: 373.1/11

In: 20.372 $\pm$ 0.213 χ^2 /NDF:766.4/27

Out: 21.508 $\pm$ 0.203 χ^2 /NDF:851.4/31

All: 20.965 $\pm$ 0.147 χ^2 /NDF: 1632.7/59

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.964 $\pm$ 0.208 χ^2 /NDF: 2263.4/21

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

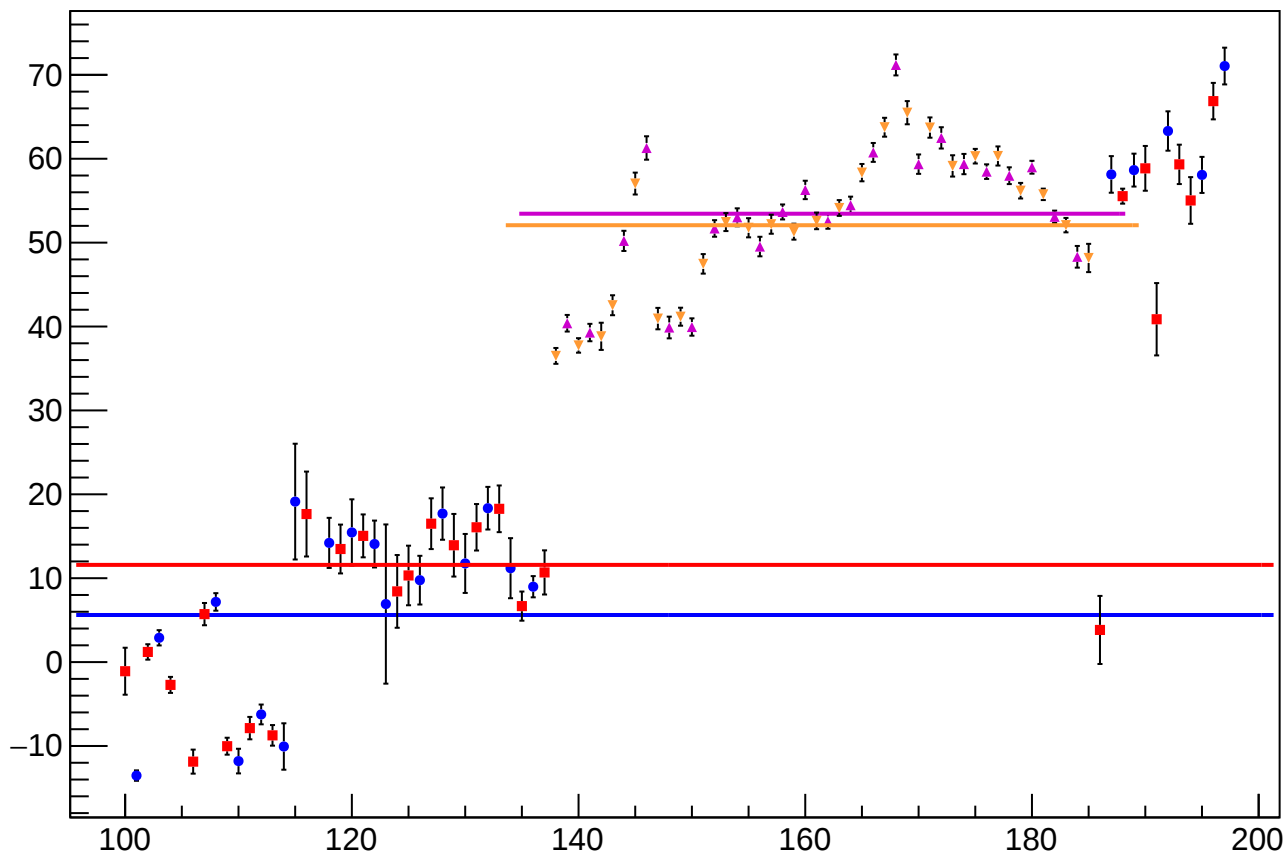
Right: 54.214 $\pm$ 0.152 χ^2 /NDF: 5062.5/47

In: 46.698 $\pm$ 0.133 χ^2 /NDF:5936.6/44

Out: 46.312 $\pm$ 0.133 χ^2 /NDF:5933.9/50

All: 46.503 $\pm$ 0.094 χ^2 /NDF: 11874.7/95

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.614 ± 0.341 $\chi^2/\text{NDF}: 4720.1/21$

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 $\chi^2/\text{NDF}: 2640.6/47$

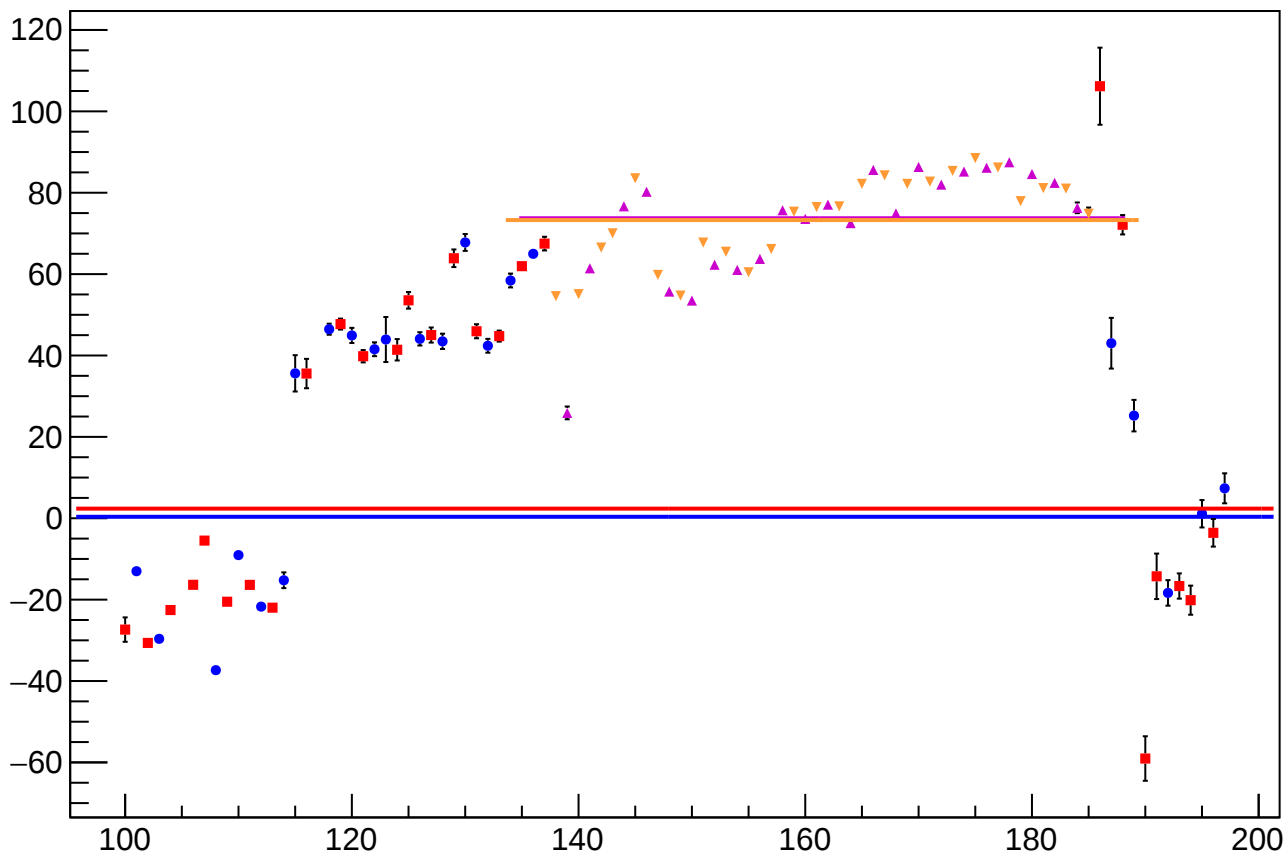
Right: 8.679 ± 0.238 $\chi^2/\text{NDF}: 10597.4/47$

In: 39.811 ± 0.182 $\chi^2/\text{NDF}: 19953.1/44$

Out: 40.518 ± 0.178 $\chi^2/\text{NDF}: 17782.1/50$

All: 40.173 ± 0.127 $\chi^2/\text{NDF}: 37743.0/95$

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.363+/-0.245 χ^2/NDF : 18347.5/21

Left Out: 73.284+/-0.187 χ^2/NDF : 3144.2/24

Right Out: 2.368+/-0.262 χ^2/NDF : 16608.5/25

Left In: 73.730+/-0.194 χ^2/NDF : 3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

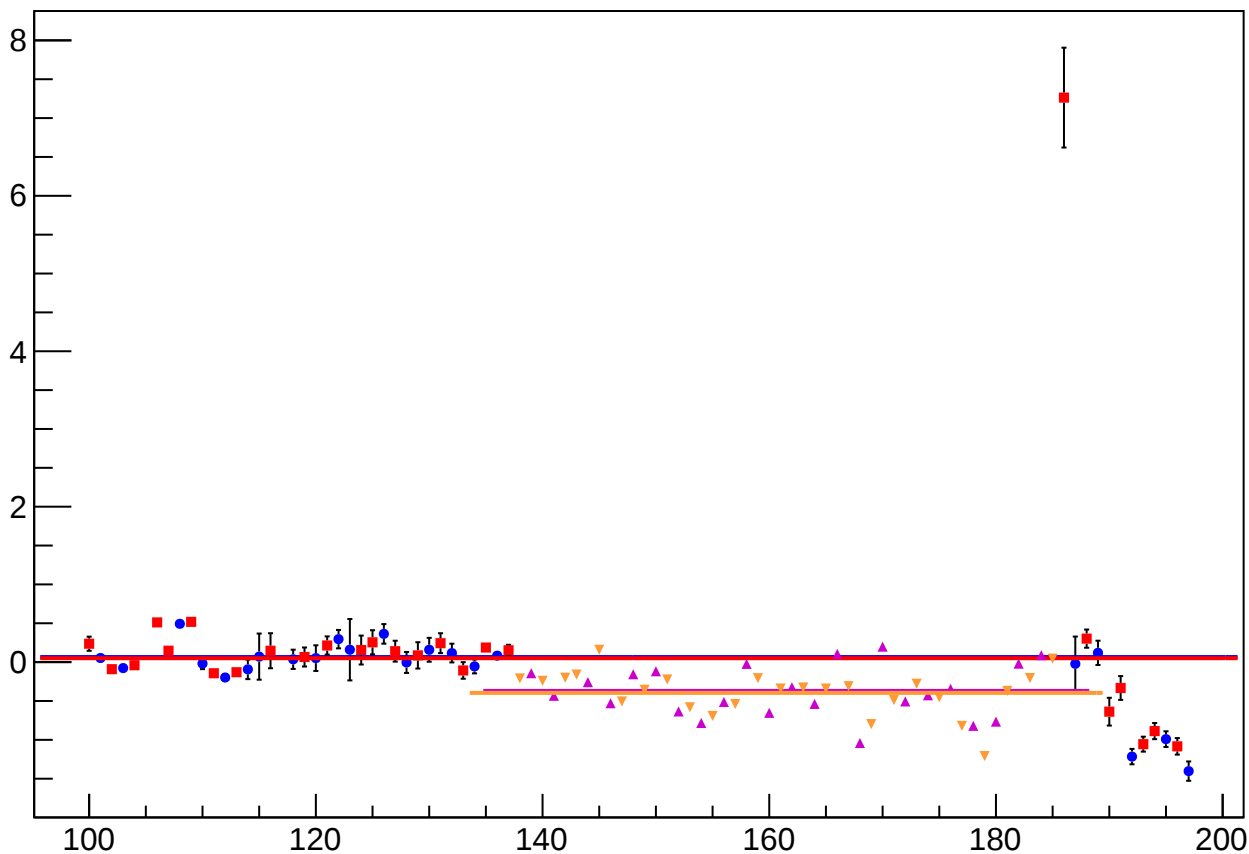
Right: 1.298+/-0.179 χ^2/NDF : 34987.2/47

In: 45.394+/-0.152 χ^2/NDF : 77170.9/44

Out: 49.372+/-0.152 χ^2/NDF : 68325.9/50

All: 47.385+/-0.108 χ^2/NDF : 145838.3/95

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.065 ± 0.011 $\chi^2/\text{NDF}: 829.4/21$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: 0.050 ± 0.011 $\chi^2/\text{NDF}: 880.4/25$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

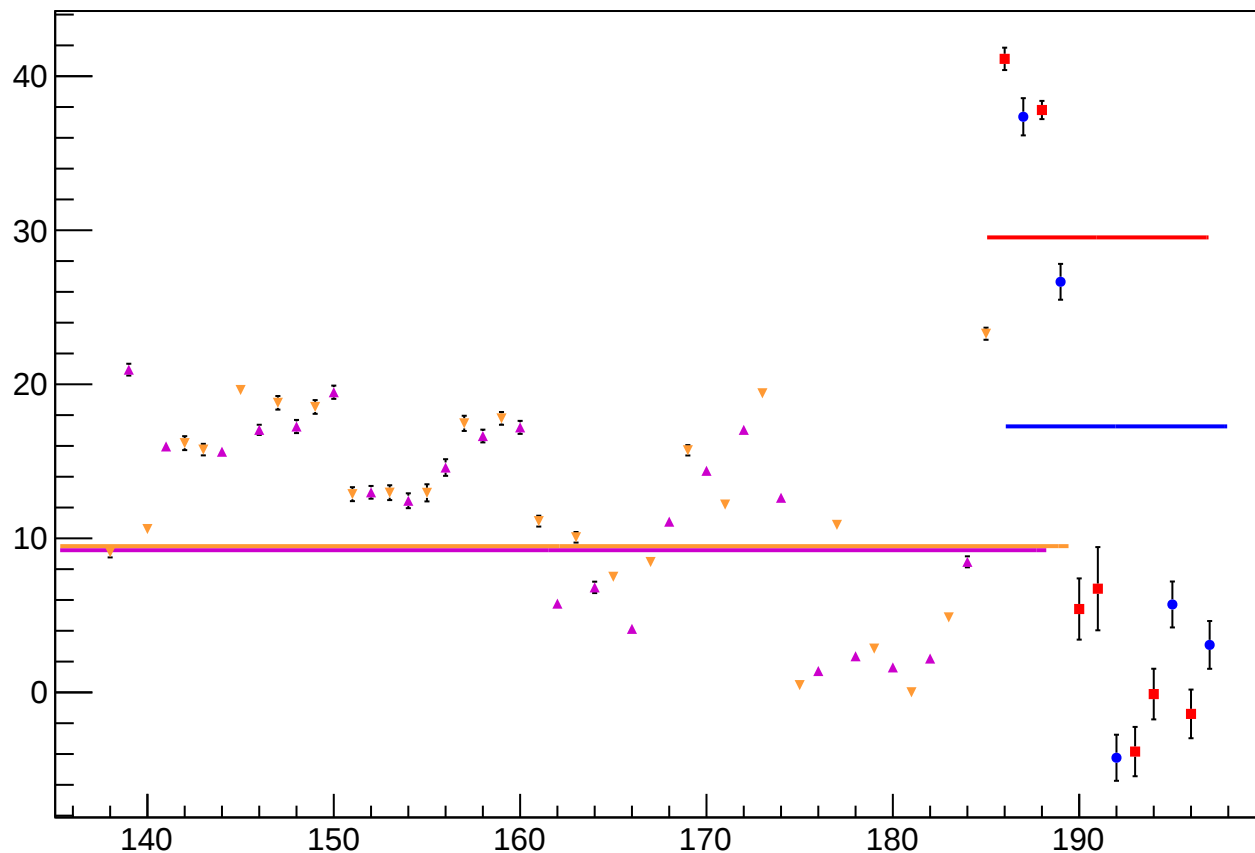
Right: 0.058 ± 0.008 $\chi^2/\text{NDF}: 1710.7/47$

In: -0.200 ± 0.007 $\chi^2/\text{NDF}: 3124.6/44$

Out: -0.223 ± 0.007 $\chi^2/\text{NDF}: 2886.9/50$

All: -0.211 ± 0.005 $\chi^2/\text{NDF}: 6017.2/95$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 17.268+/-0.605 χ^2/NDF : 692.4/4

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

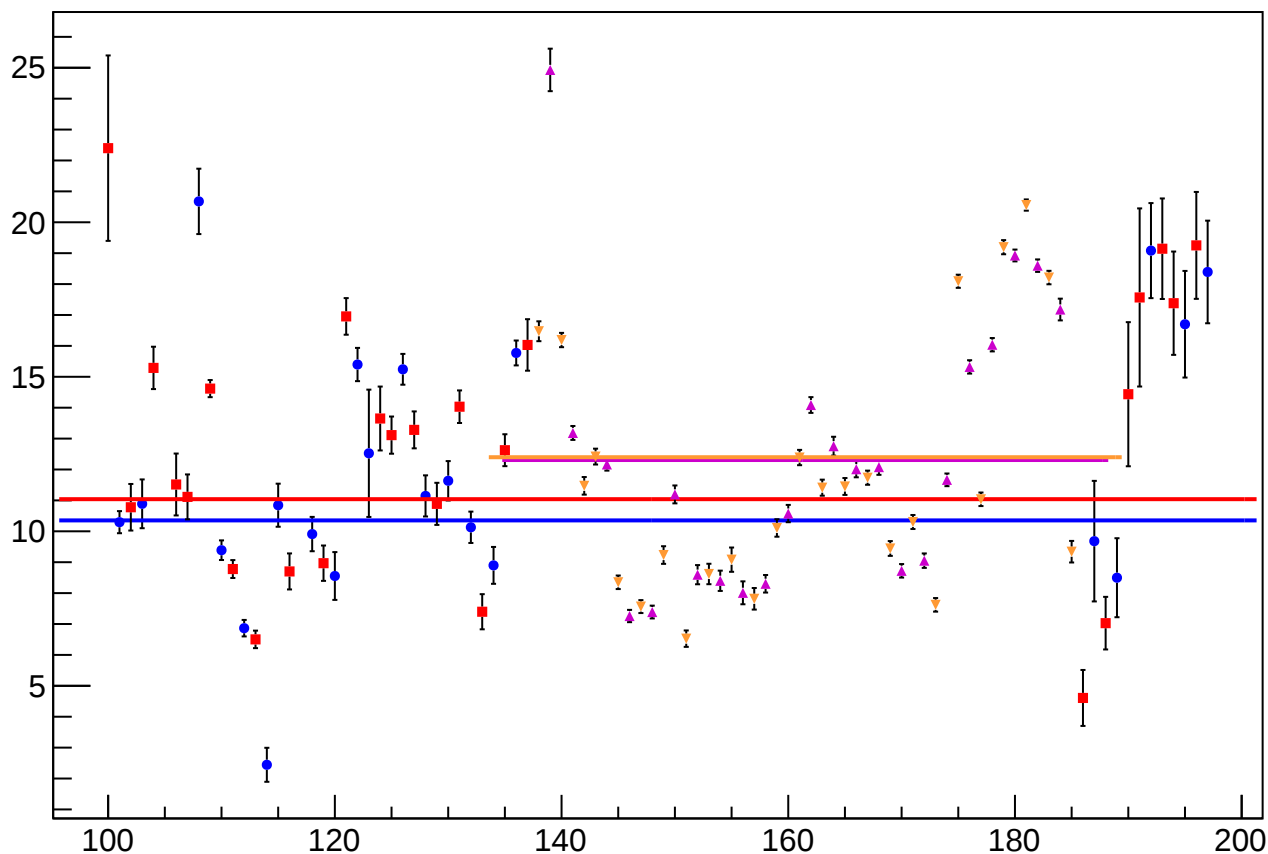
Right: 25.824+/-0.333 χ^2/NDF : 2791.9/11

In: 9.317+/-0.063 χ^2/NDF : 11603.4/27

Out: 9.958+/-0.061 χ^2/NDF : 16896.6/31

All: 9.649+/-0.044 χ^2/NDF : 28554.0/59

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.353 ± 0.118 $\chi^2/\text{NDF}: 938.3/21$

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 $\chi^2/\text{NDF}: 13146.3/47$

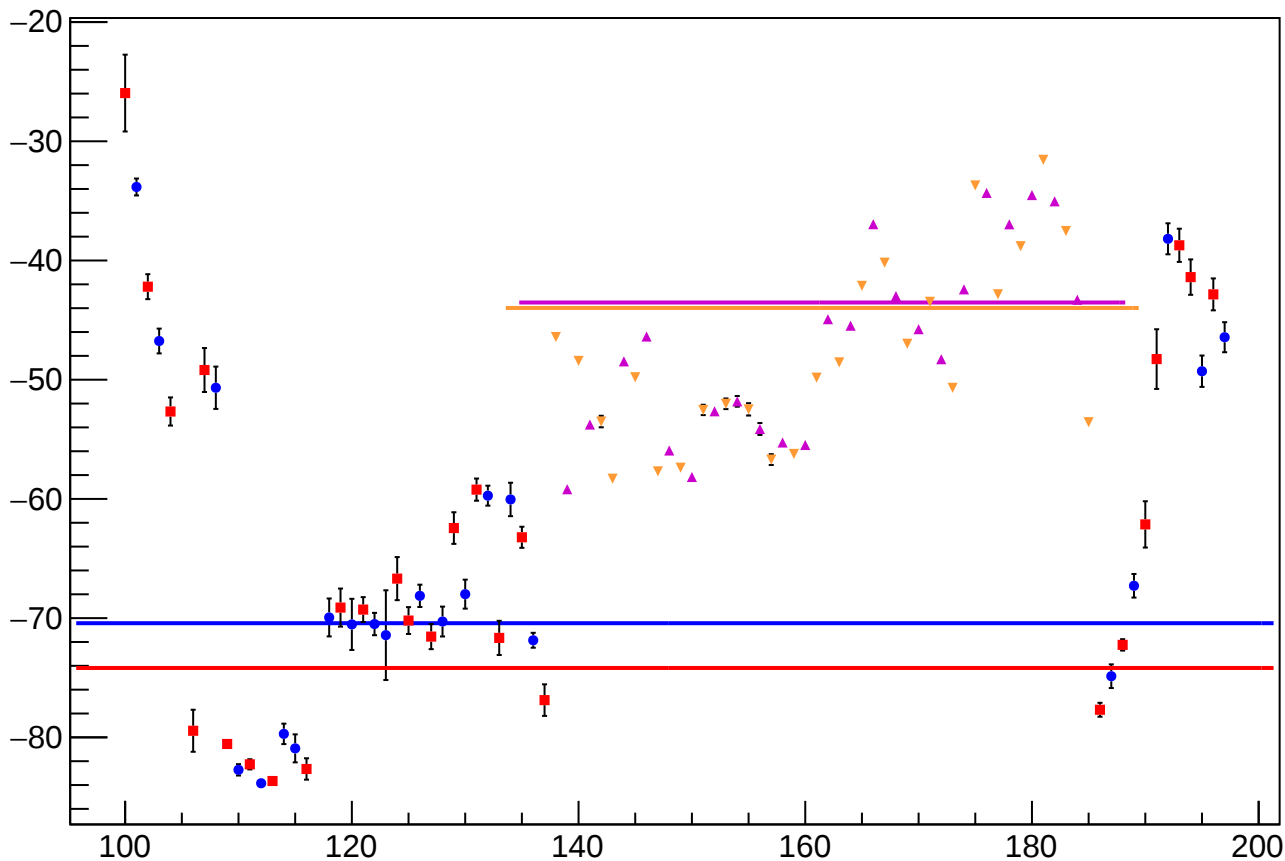
Right: 10.710 ± 0.082 $\chi^2/\text{NDF}: 1914.5/47$

In: 11.997 ± 0.047 $\chi^2/\text{NDF}: 6771.0/44$

Out: 12.179 ± 0.046 $\chi^2/\text{NDF}: 8621.4/50$

All: 12.091 ± 0.033 $\chi^2/\text{NDF}: 15400.2/95$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.425 ± 0.185 χ^2/NDF : 6908.3/21

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

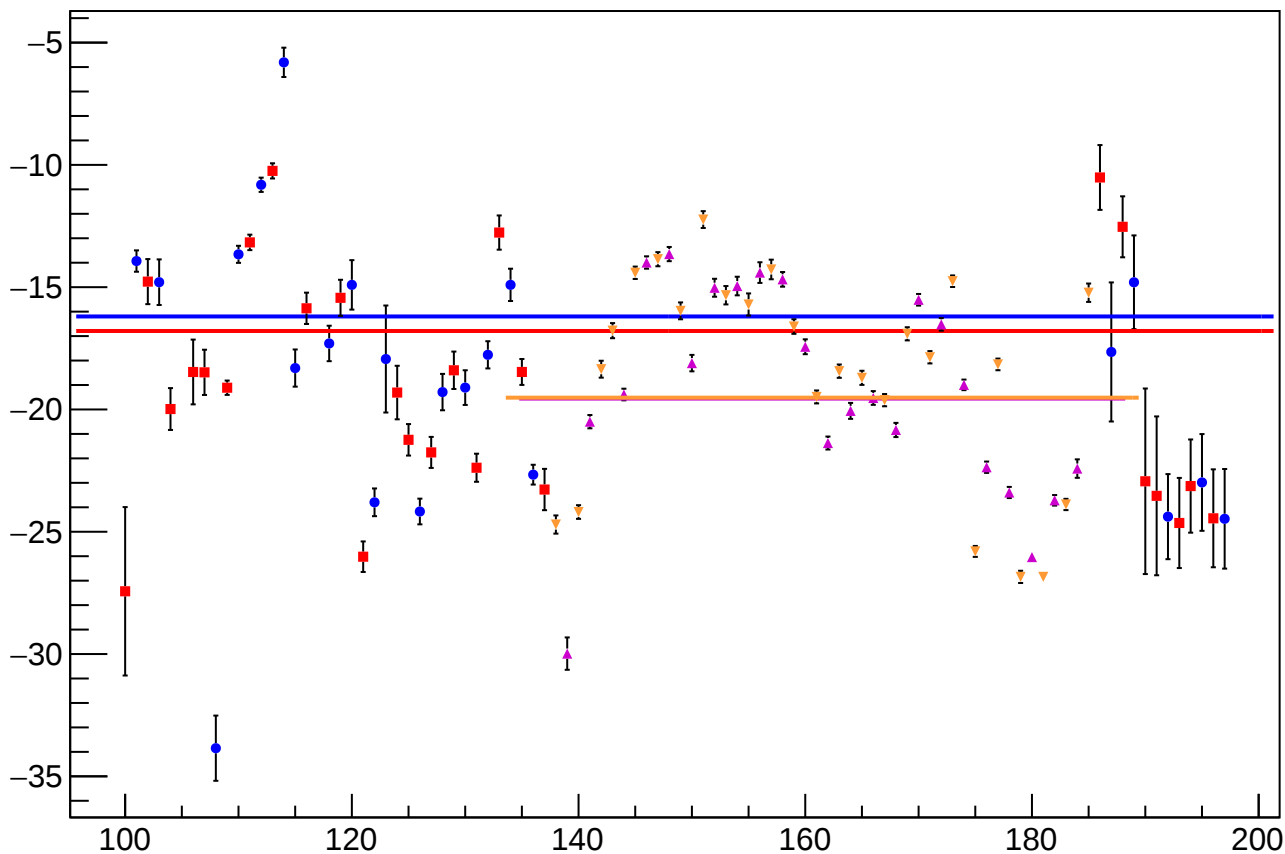
Right: -72.589 ± 0.120 χ^2/NDF : 12591.4/47

In: -46.345 ± 0.060 χ^2/NDF : 41110.0/44

Out: -47.976 ± 0.058 χ^2/NDF : 54627.6/50

All: -47.191 ± 0.042 χ^2/NDF : 96122.0/95

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.197 ± 0.131 χ^2/NDF : 1672.6/21

Left Out: -19.517 ± 0.056 χ^2/NDF : 6518.3/24

Right Out: -16.791 ± 0.126 χ^2/NDF : 1296.1/25

Left In: -19.555 ± 0.057 χ^2/NDF : 4311.2/22

Left: -19.536 ± 0.040 χ^2/NDF : 10829.6/47

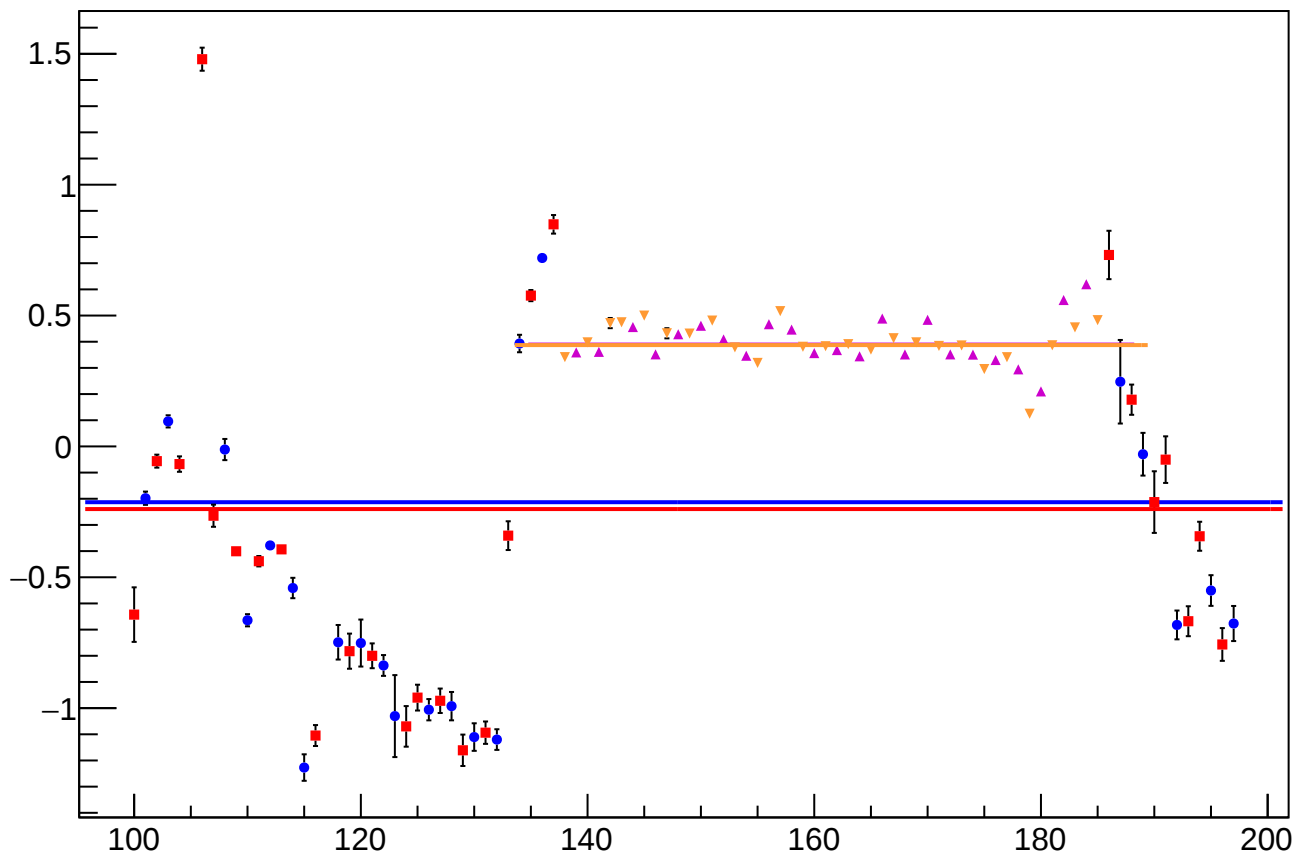
Right: -16.507 ± 0.091 χ^2/NDF : 2979.4/47

In: -19.018 ± 0.053 χ^2/NDF : 6532.2/44

Out: -19.071 ± 0.051 χ^2/NDF : 8205.4/50

All: -19.045 ± 0.037 χ^2/NDF : 14738.1/95

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.213 ± 0.007 χ^2/NDF : 6488.9/21

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

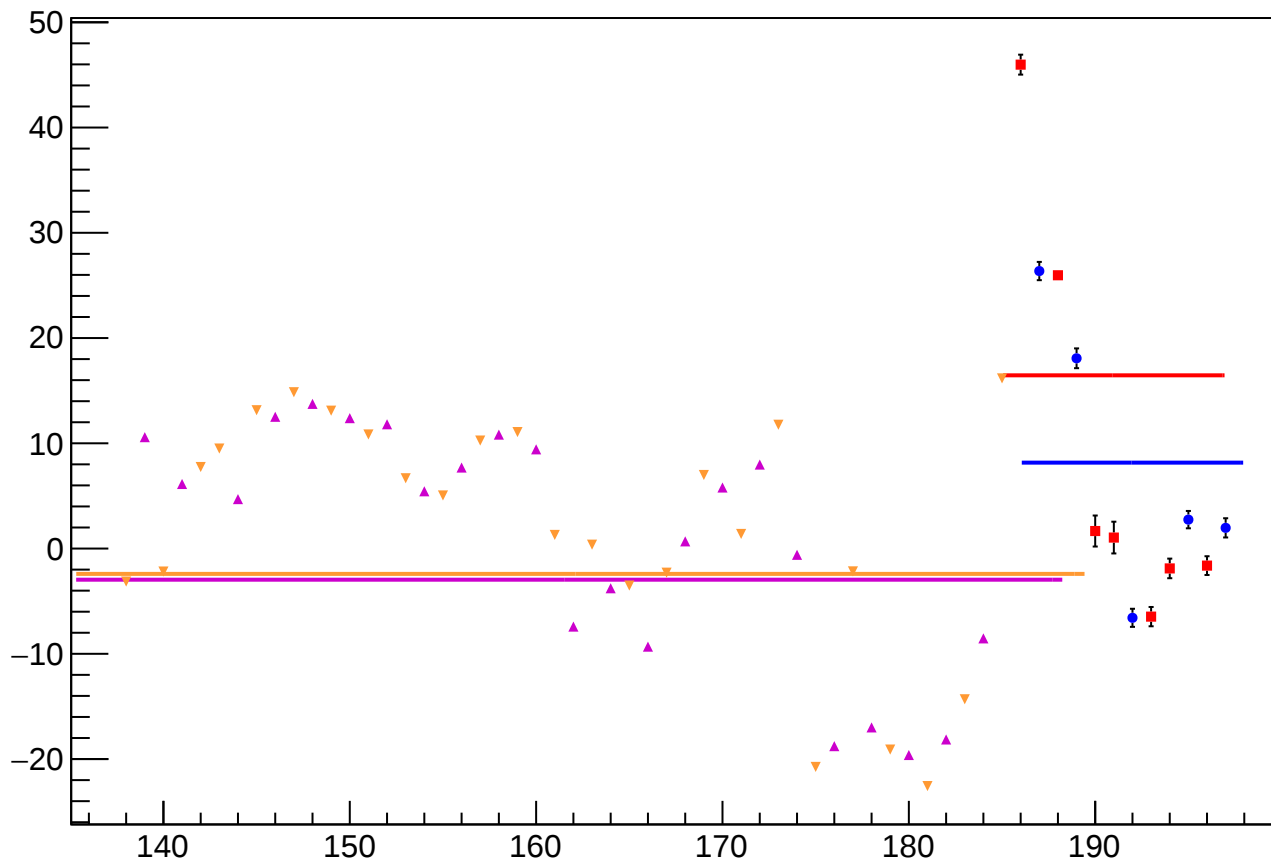
Right: -0.227 ± 0.005 χ^2/NDF : 12967.7/47

In: 0.321 ± 0.002 χ^2/NDF : 13713.7/44

Out: 0.312 ± 0.002 χ^2/NDF : 14675.6/50

All: 0.316 ± 0.002 χ^2/NDF : 28396.8/95

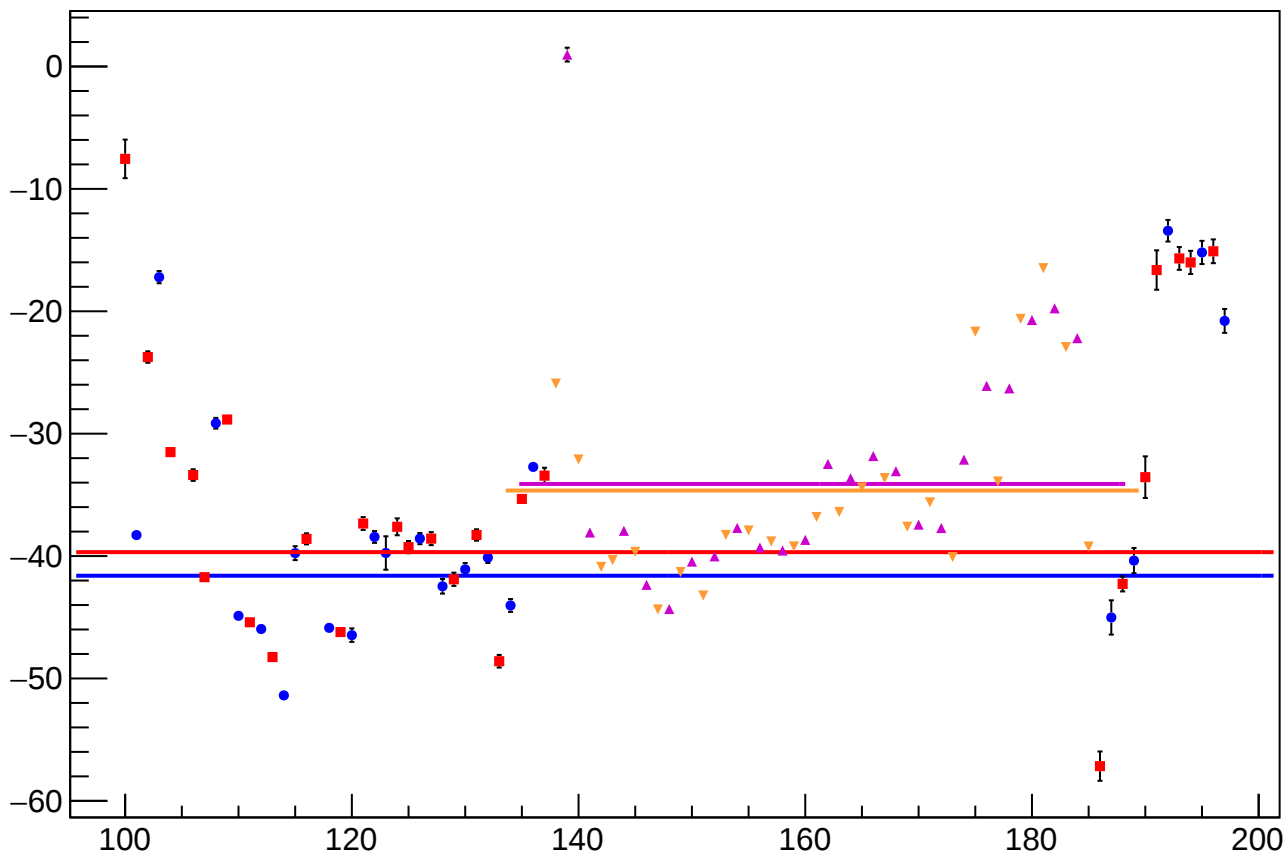
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.163 $\pm$ 0.393 χ^2 /NDF: 934.9/4
 Left Out: -2.407 $\pm$ 0.053 χ^2 /NDF: 56368.5/24
 Right Out: 16.458 $\pm$ 0.300 χ^2 /NDF: 3096.1/6
 Left In: -2.959 $\pm$ 0.055 χ^2 /NDF: 45922.6/22

Left: -2.672 $\pm$ 0.038 χ^2 /NDF: 102343.8/47
 Right: 13.397 $\pm$ 0.239 χ^2 /NDF: 4312.4/11
 In: -2.746 $\pm$ 0.054 χ^2 /NDF: 47644.3/27
 Out: -1.842 $\pm$ 0.052 χ^2 /NDF: 63291.9/31
 All: -2.274 $\pm$ 0.038 χ^2 /NDF: 111080.9/59

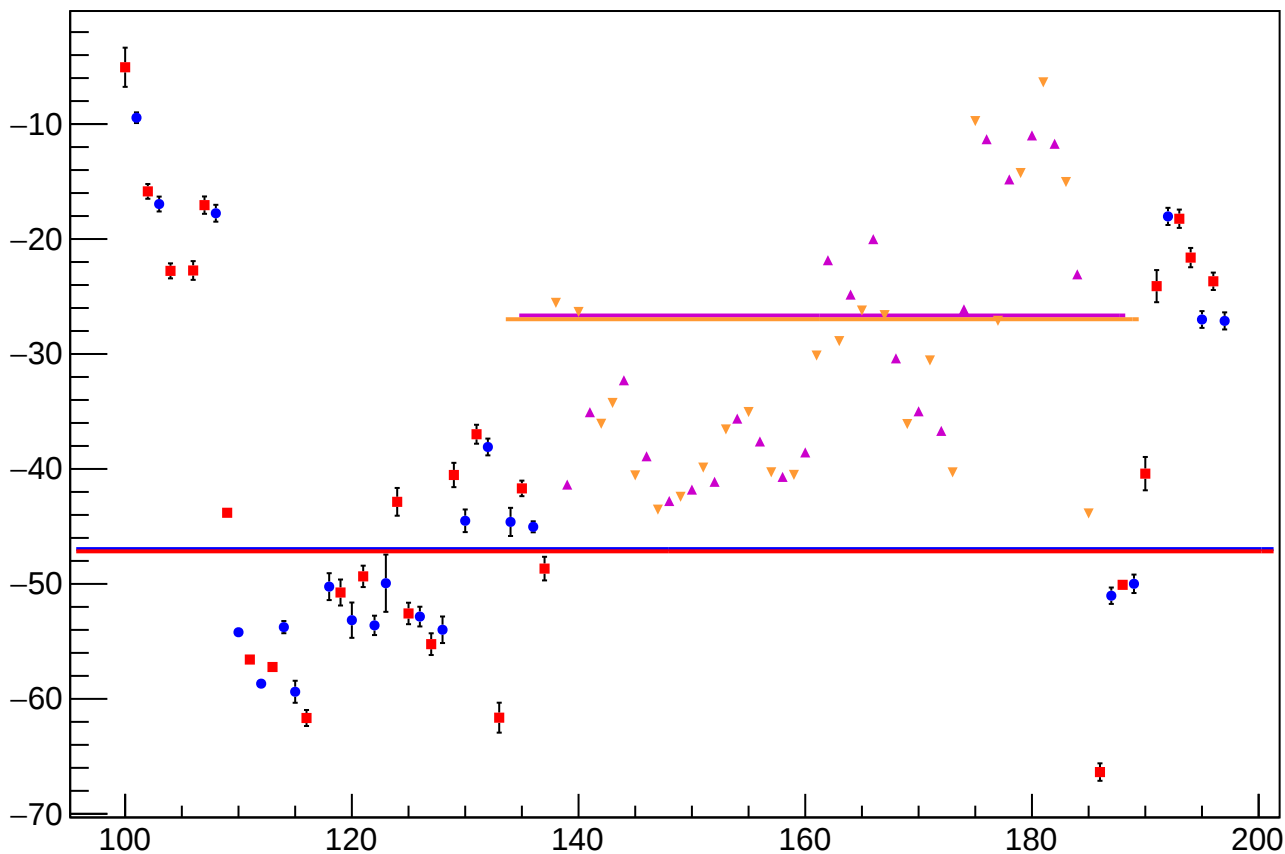
reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.606 ± 0.077 $\chi^2/\text{NDF}: 8855.5/21$
 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: -40.570 ± 0.052 $\chi^2/\text{NDF}: 22917.1/47$
 In: -35.950 ± 0.038 $\chi^2/\text{NDF}: 45055.1/44$
 Out: -35.929 ± 0.036 $\chi^2/\text{NDF}: 52100.9/50$
 All: -35.939 ± 0.026 $\chi^2/\text{NDF}: 97156.1/95$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.973 ± 0.117 $\chi^2/\text{NDF}: 17868.8/21$

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 $\chi^2/\text{NDF}: 91485.8/47$

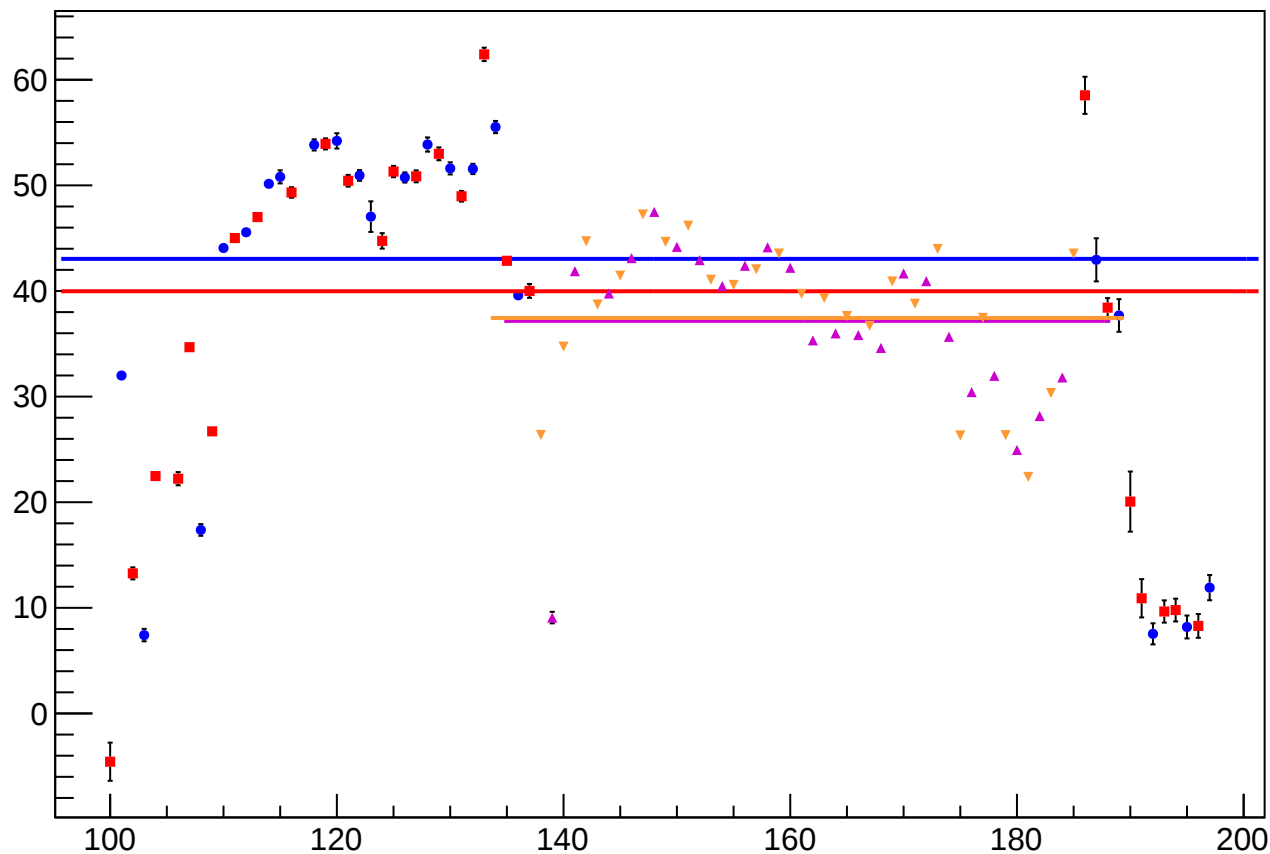
Right: -47.086 ± 0.075 $\chi^2/\text{NDF}: 33888.9/47$

In: -30.329 ± 0.050 $\chi^2/\text{NDF}: 84722.5/44$

Out: -31.523 ± 0.047 $\chi^2/\text{NDF}: 97817.6/50$

All: -30.962 ± 0.034 $\chi^2/\text{NDF}: 182845.7/95$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.040 $\pm$ 0.086 χ^2 /NDF: 13611.0/21

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

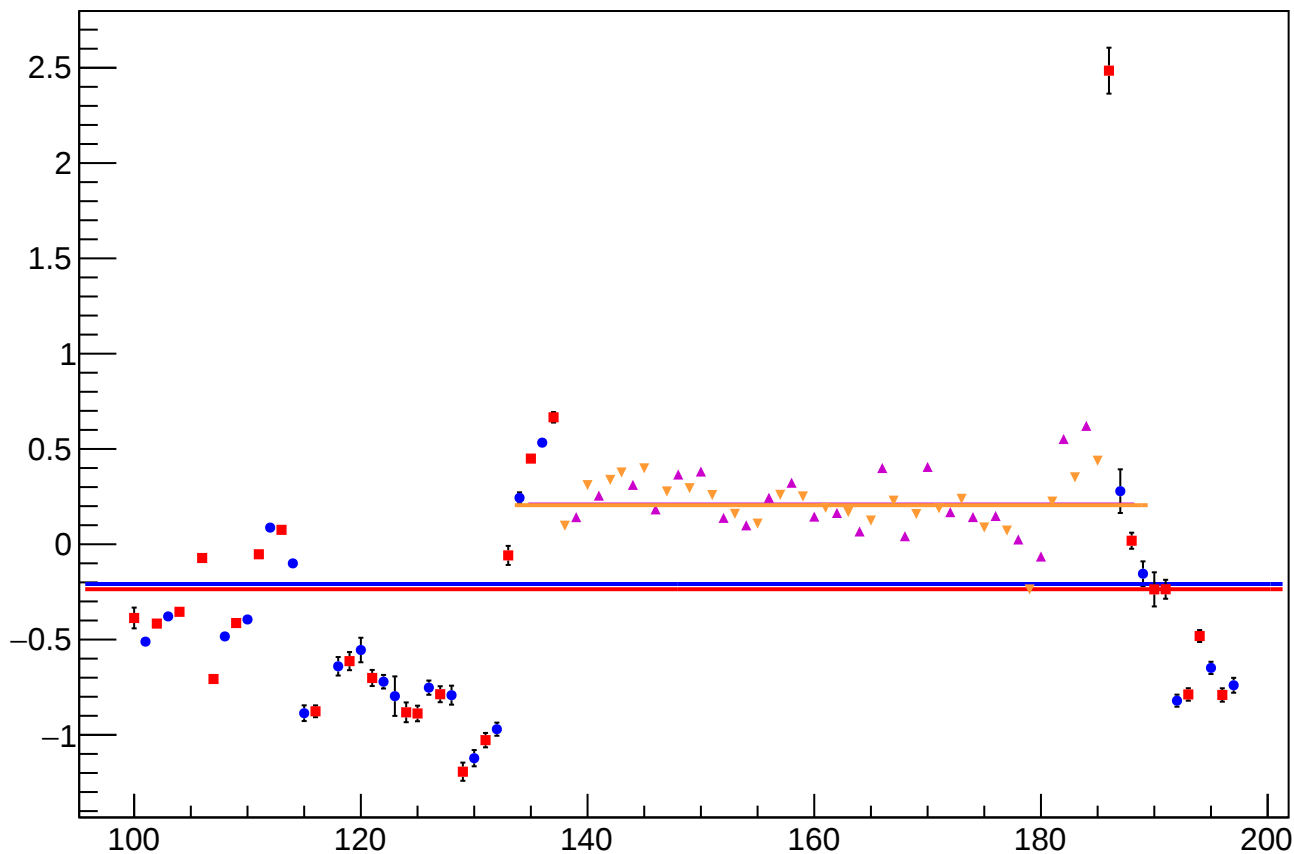
Right: 41.379 $\pm$ 0.058 χ^2 /NDF: 34747.1/47

In: 38.620 $\pm$ 0.043 χ^2 /NDF:34357.2/44

Out: 38.110 $\pm$ 0.041 χ^2 /NDF:42772.1/50

All: 38.351 $\pm$ 0.029 χ^2 /NDF: 77204.4/95

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.209 ± 0.005 χ^2/NDF : 8162.5/21

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

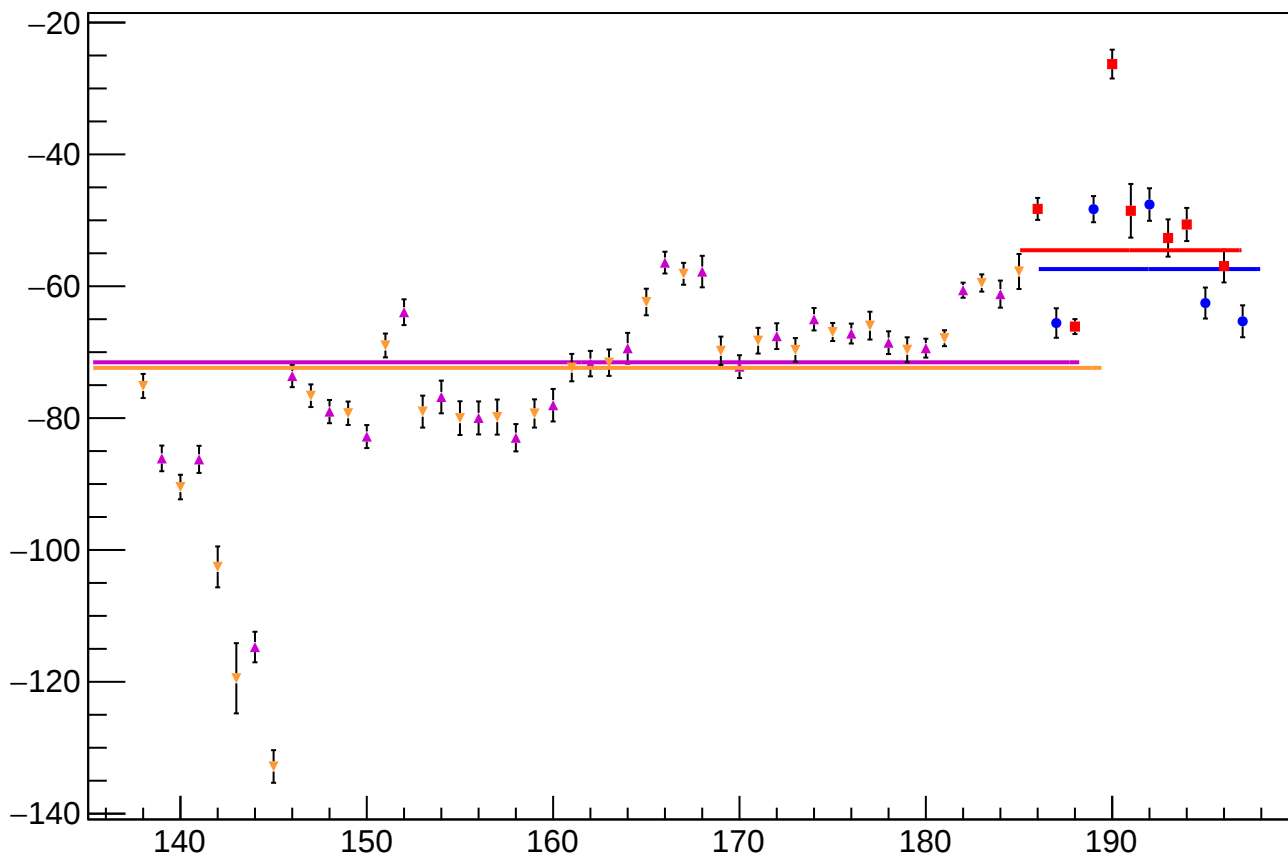
Right: -0.224 ± 0.003 χ^2/NDF : 16754.1/47

In: 0.131 ± 0.002 χ^2/NDF : 19692.5/44

Out: 0.110 ± 0.002 χ^2/NDF : 21232.3/50

All: 0.120 ± 0.001 χ^2/NDF : 40977.5/95

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -57.395 ± 1.016 $\chi^2/\text{NDF}: 65.6/4$
 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 $\chi^2/\text{NDF}: 2053.7/47$

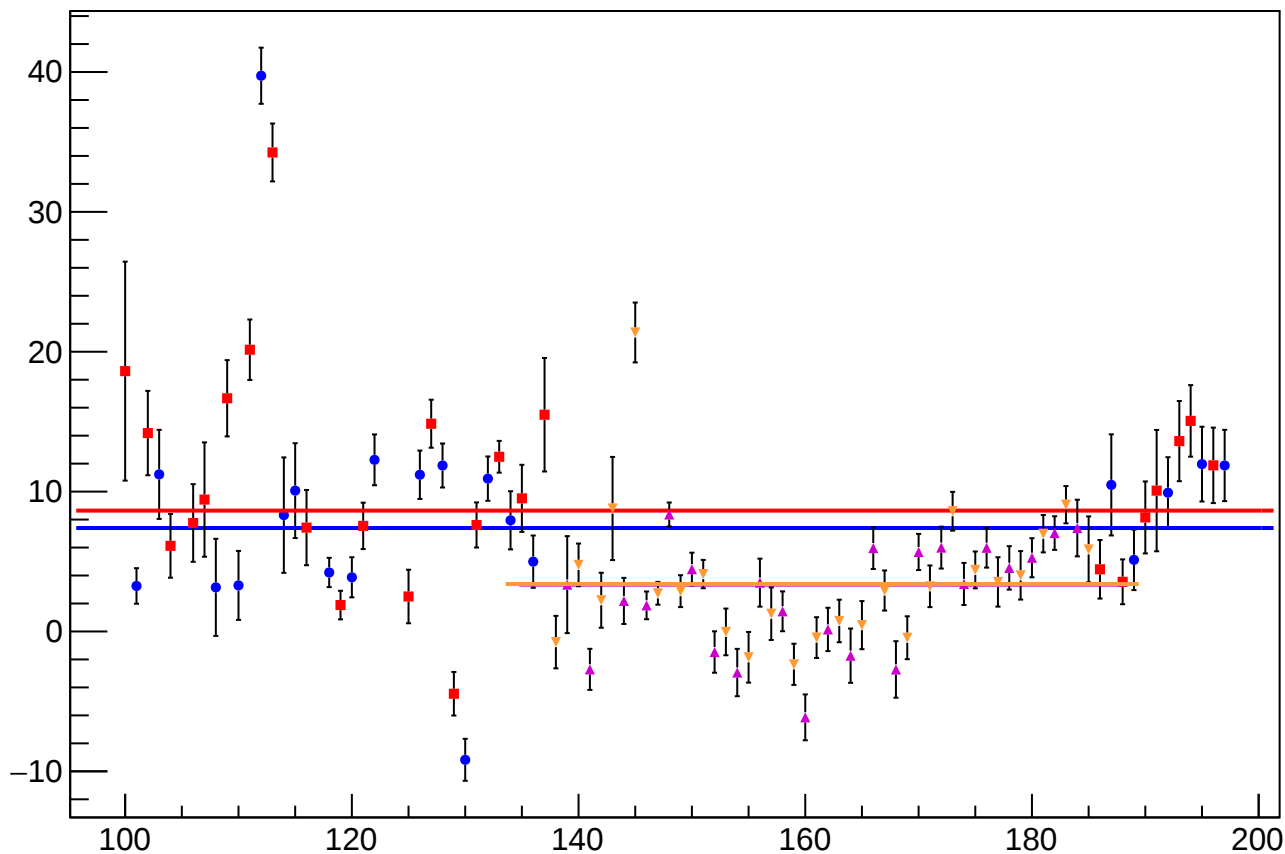
Right: -55.520 ± 0.595 $\chi^2/\text{NDF}: 361.9/11$

In: -69.785 ± 0.357 $\chi^2/\text{NDF}: 1086.7/27$

Out: -68.586 ± 0.339 $\chi^2/\text{NDF}: 1955.3/31$

All: -69.154 ± 0.246 $\chi^2/\text{NDF}: 3048.0/59$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.396 ± 0.412 $\chi^2/\text{NDF}: 449.7/20$

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 $\chi^2/\text{NDF}: 333.4/47$

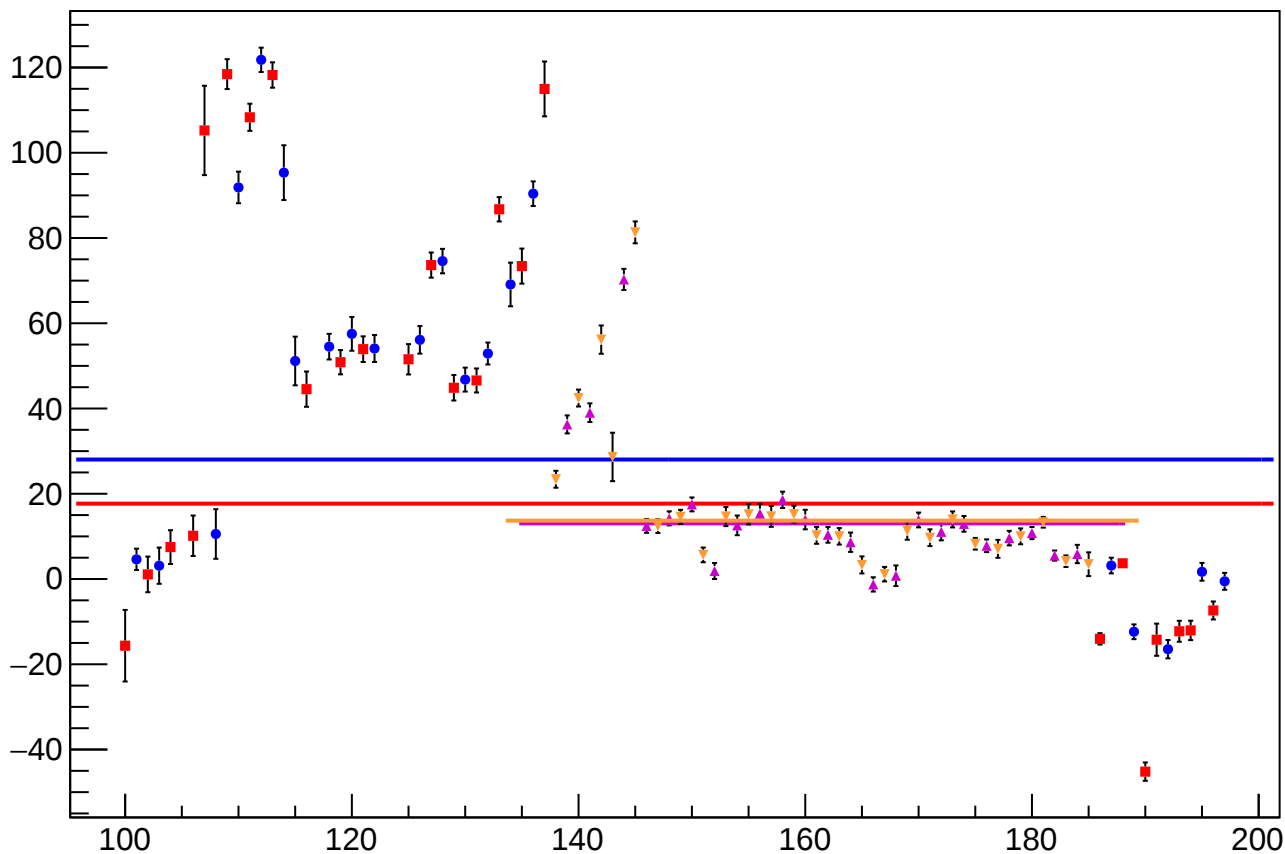
Right: 8.035 ± 0.287 $\chi^2/\text{NDF}: 829.2/45$

In: 4.742 ± 0.242 $\chi^2/\text{NDF}: 676.6/43$

Out: 5.223 ± 0.237 $\chi^2/\text{NDF}: 656.0/49$

All: 4.987 ± 0.169 $\chi^2/\text{NDF}: 1334.6/93$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.035 $\pm$ 0.603 χ^2 /NDF: 4363.5/20

Left Out: 13.700 $\pm$ 0.381 χ^2 /NDF:1307.0/24

Right Out: 17.684 $\pm$ 0.499 χ^2 /NDF: 7026.1/24

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.378 $\pm$ 0.269 χ^2 /NDF: 2333.1/47

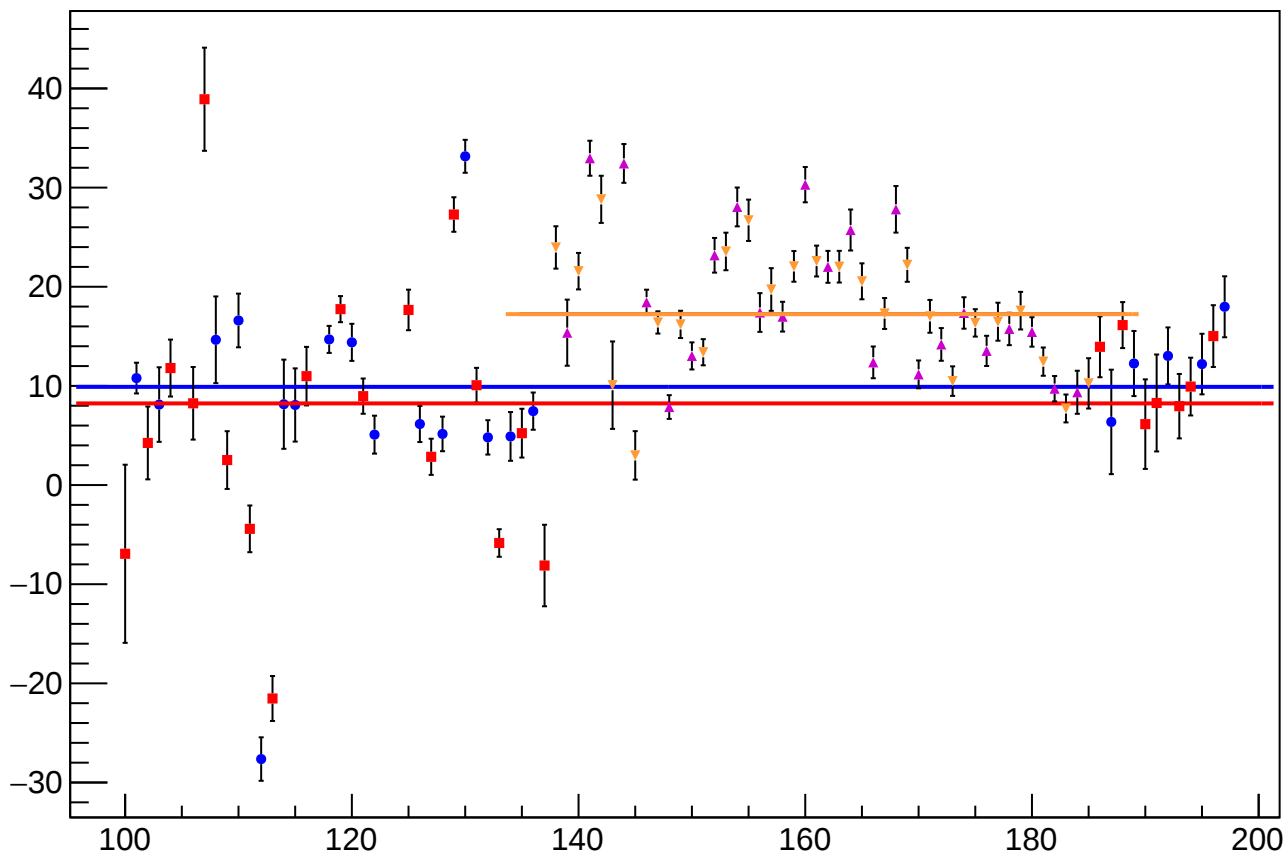
Right: 21.888 $\pm$ 0.384 χ^2 /NDF: 11564.7/45

In: 17.312 $\pm$ 0.321 χ^2 /NDF:5830.1/43

Out: 15.168 $\pm$ 0.303 χ^2 /NDF:8373.4/49

All: 16.176 $\pm$ 0.220 χ^2 /NDF: 14227.1/93

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.904 ± 0.480 $\chi^2/\text{NDF}: 557.5/20$

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 $\chi^2/\text{NDF}: 687.3/47$

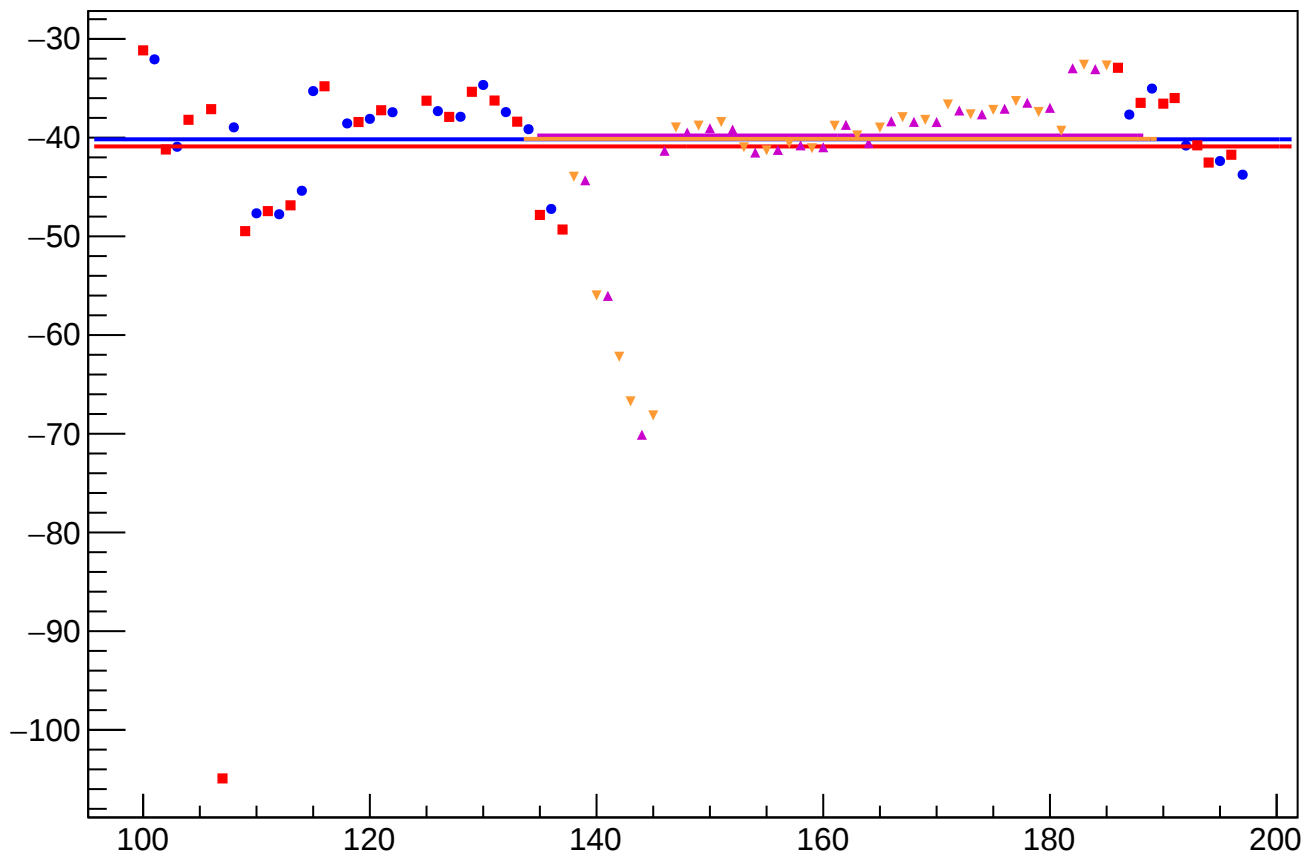
Right: 9.059 ± 0.337 $\chi^2/\text{NDF}: 1153.0/45$

In: 14.797 ± 0.277 $\chi^2/\text{NDF}: 1154.3/43$

Out: 14.224 ± 0.274 $\chi^2/\text{NDF}: 1076.1/49$

All: 14.507 ± 0.195 $\chi^2/\text{NDF}: 2232.6/93$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.170 ± 0.026 $\chi^2/\text{NDF}: 29794.0/20$

Left Out: -40.126 ± 0.016 $\chi^2/\text{NDF}: 185897.0/24$

Right Out: -40.891 ± 0.025 $\chi^2/\text{NDF}: 100928.5/24$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.955 ± 0.011 $\chi^2/\text{NDF}: 330628.3/47$

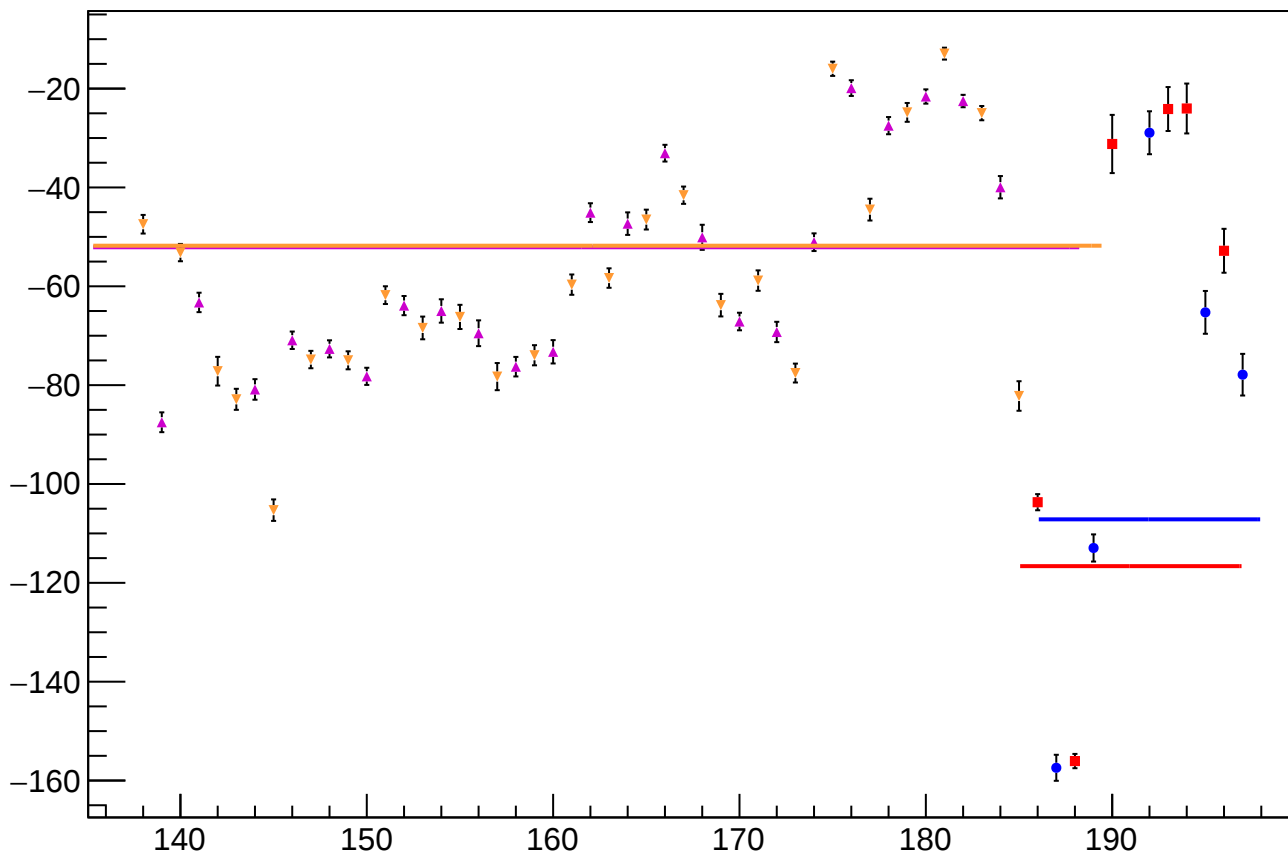
Right: -40.548 ± 0.018 $\chi^2/\text{NDF}: 131114.9/45$

In: -39.885 ± 0.013 $\chi^2/\text{NDF}: 174446.4/43$

Out: -40.341 ± 0.013 $\chi^2/\text{NDF}: 287493.7/49$

All: -40.116 ± 0.009 $\chi^2/\text{NDF}: 462521.6/93$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -107.155 ± 1.509 χ^2/NDF : 835.1/4

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

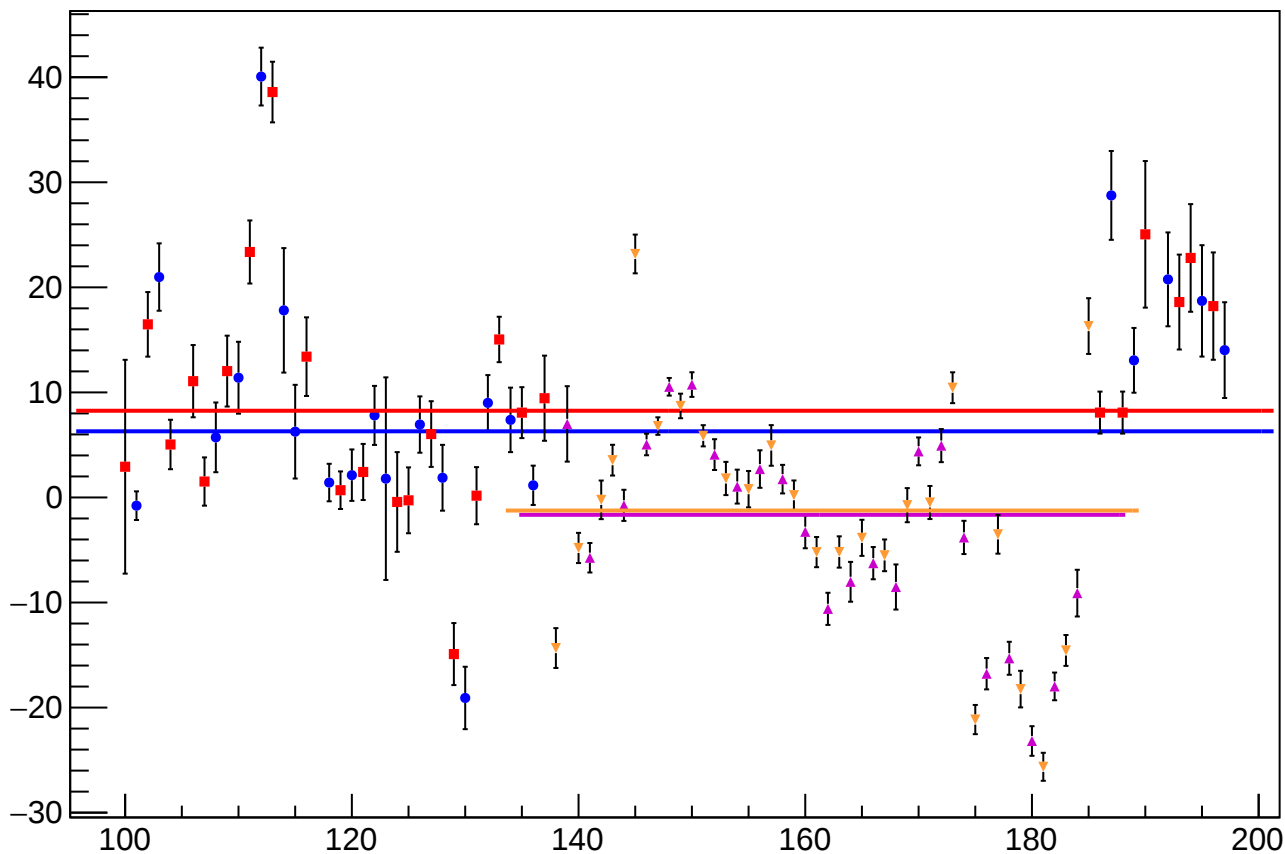
Right: -113.779 ± 0.827 χ^2/NDF : 2855.8/10

In: -55.530 ± 0.376 χ^2/NDF : 5363.7/27

Out: -60.236 ± 0.357 χ^2/NDF : 9899.6/30

All: -58.008 ± 0.259 χ^2/NDF : 15345.7/58

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected

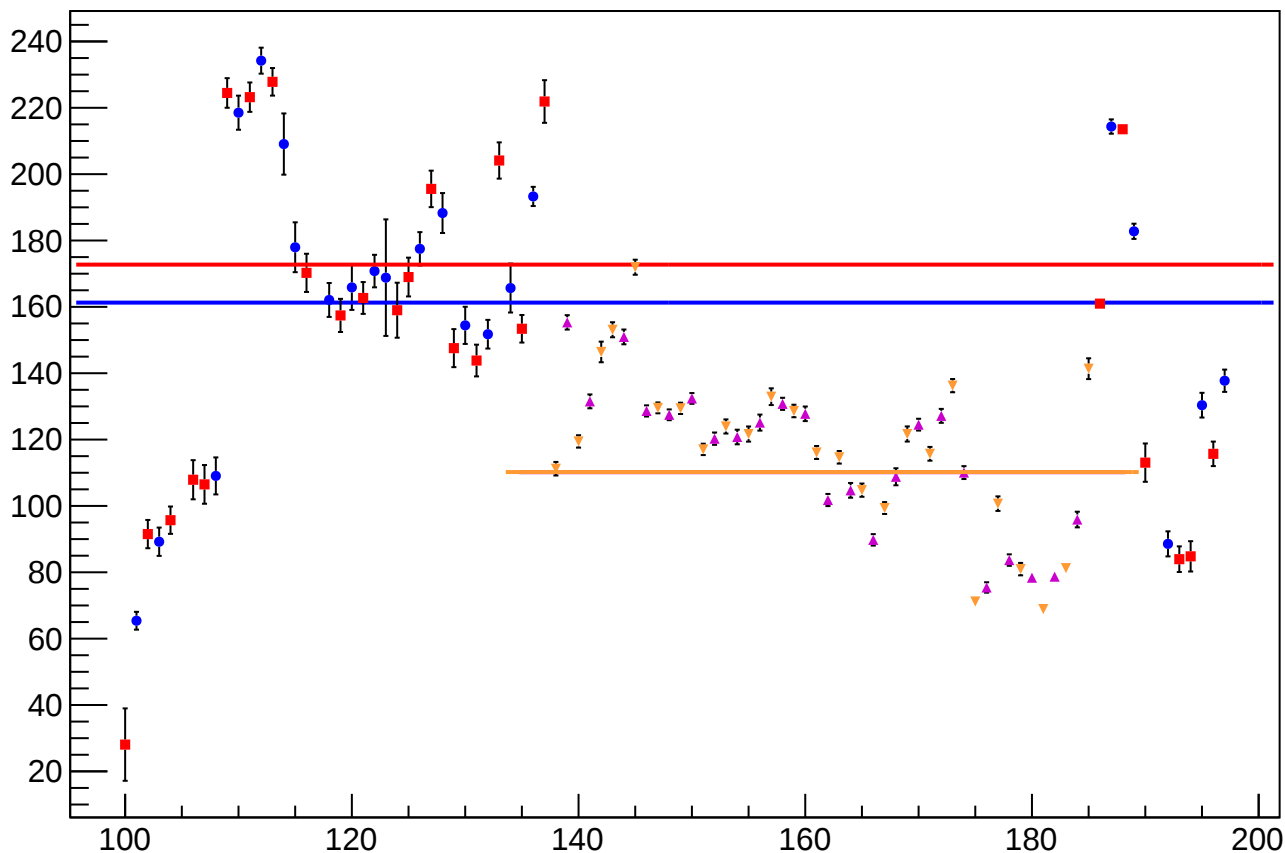


Right In: 6.297 ± 0.595 $\chi^2/\text{NDF}: 351.0/21$
 Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$
 Right Out: 8.254 ± 0.577 $\chi^2/\text{NDF}: 294.7/24$
 Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$
 Right: 7.305 ± 0.414 $\chi^2/\text{NDF}: 651.3/46$
 In: -0.038 ± 0.268 $\chi^2/\text{NDF}: 1585.5/44$
 Out: 0.689 ± 0.260 $\chi^2/\text{NDF}: 1833.2/49$

All: 0.336 ± 0.187 $\chi^2/\text{NDF}: 3422.4/94$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 161.282 $\pm$ 0.849 χ^2 /NDF: 3493.9/21

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 172.734 $\pm$ 0.664 χ^2 /NDF: 4342.1/24

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

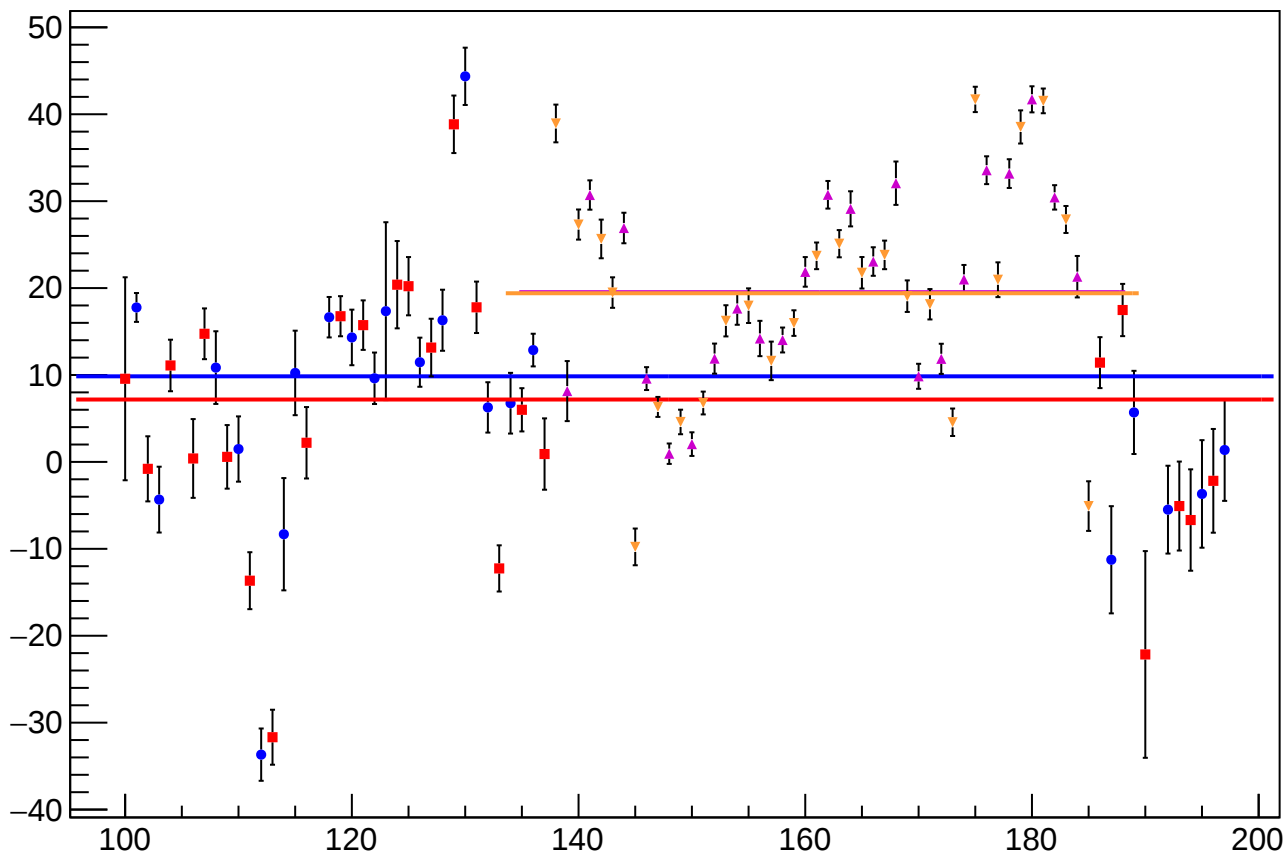
Right: 168.385 $\pm$ 0.523 χ^2 /NDF: 7949.0/46

In: 118.932 $\pm$ 0.351 χ^2 /NDF:10202.2/44

Out: 125.761 $\pm$ 0.331 χ^2 /NDF:15596.2/49

All: 122.549 $\pm$ 0.241 χ^2 /NDF: 25998.4/94

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.846 ± 0.692 χ^2/NDF : 416.8/21

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

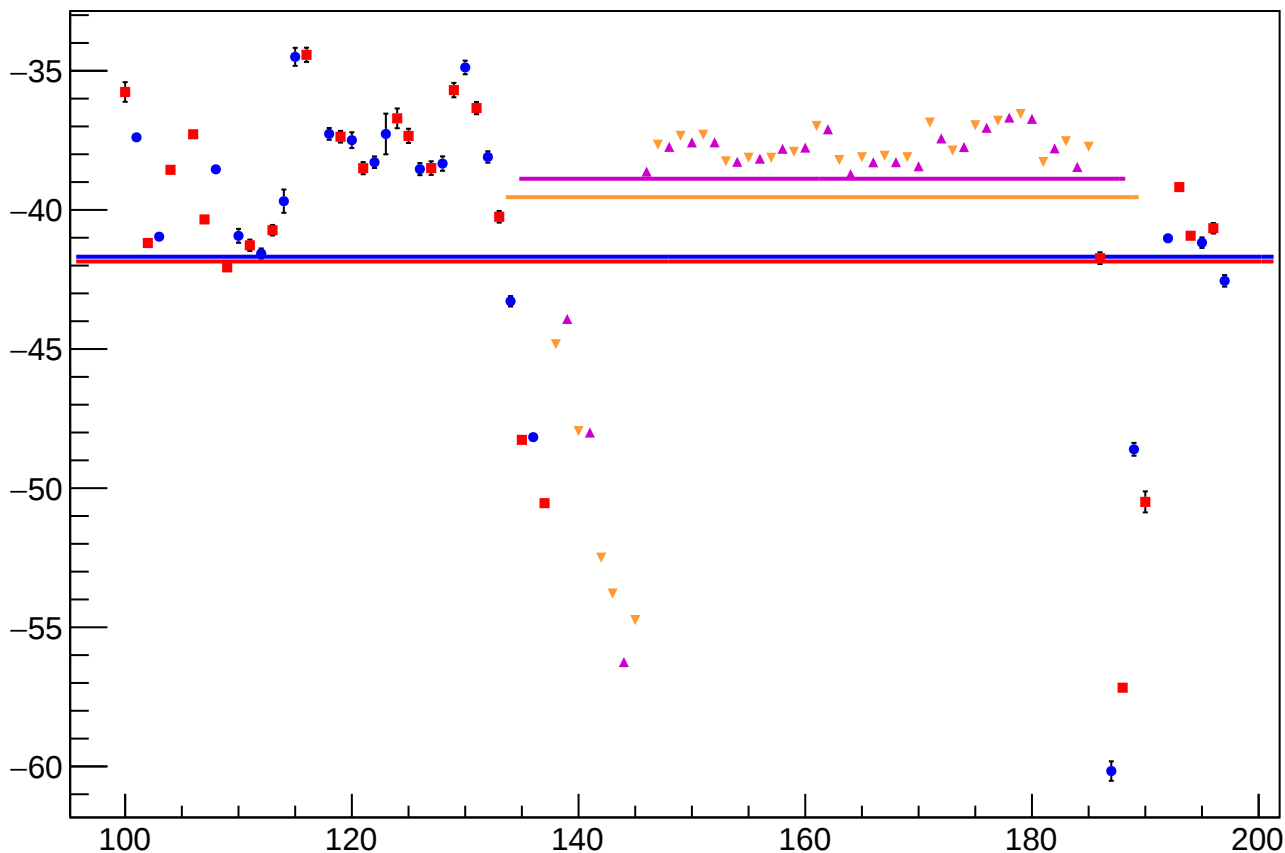
Right: 8.505 ± 0.488 χ^2/NDF : 881.4/46

In: 17.624 ± 0.307 χ^2/NDF : 1755.5/44

Out: 17.064 ± 0.301 χ^2/NDF : 2166.1/49

All: 17.338 ± 0.215 χ^2/NDF : 3923.3/94

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.682 ± 0.036 $\chi^2/\text{NDF}: 16334.0/21$

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 $\chi^2/\text{NDF}: 146312.0/47$

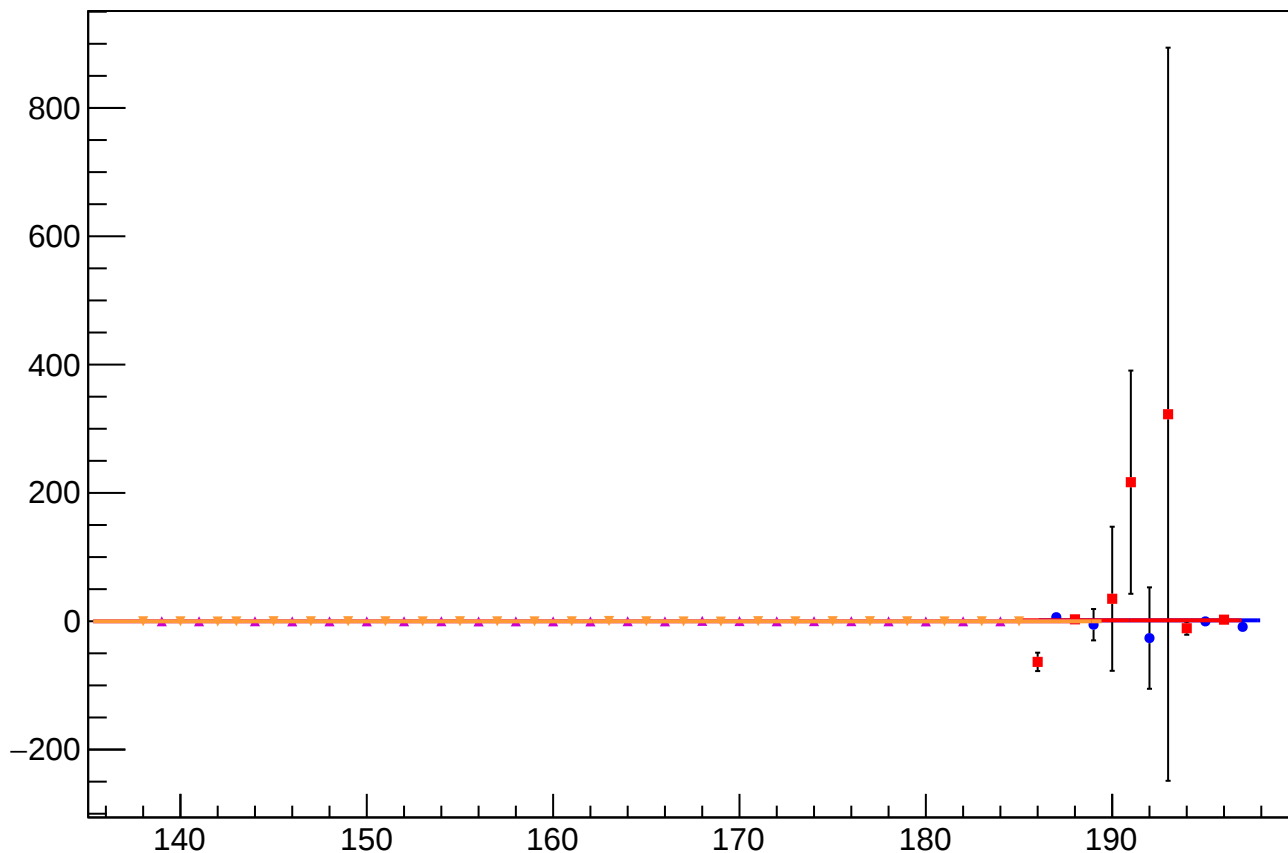
Right: -41.770 ± 0.025 $\chi^2/\text{NDF}: 38904.3/46$

In: -39.343 ± 0.014 $\chi^2/\text{NDF}: 74901.4/44$

Out: -39.939 ± 0.014 $\chi^2/\text{NDF}: 118294.1/49$

All: -39.645 ± 0.010 $\chi^2/\text{NDF}: 194052.3/94$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.398 $\pm$ 2.238 χ^2 /NDF: 7.6/4

Left Out: -0.095 $\pm$ 0.022 χ^2 /NDF: 41.8/24

Right Out: 1.486 $\pm$ 1.790 χ^2 /NDF: 24.5/6

Left In: -0.026 $\pm$ 0.022 χ^2 /NDF: 33.3/22

Left: -0.061 $\pm$ 0.016 χ^2 /NDF: 80.1/47

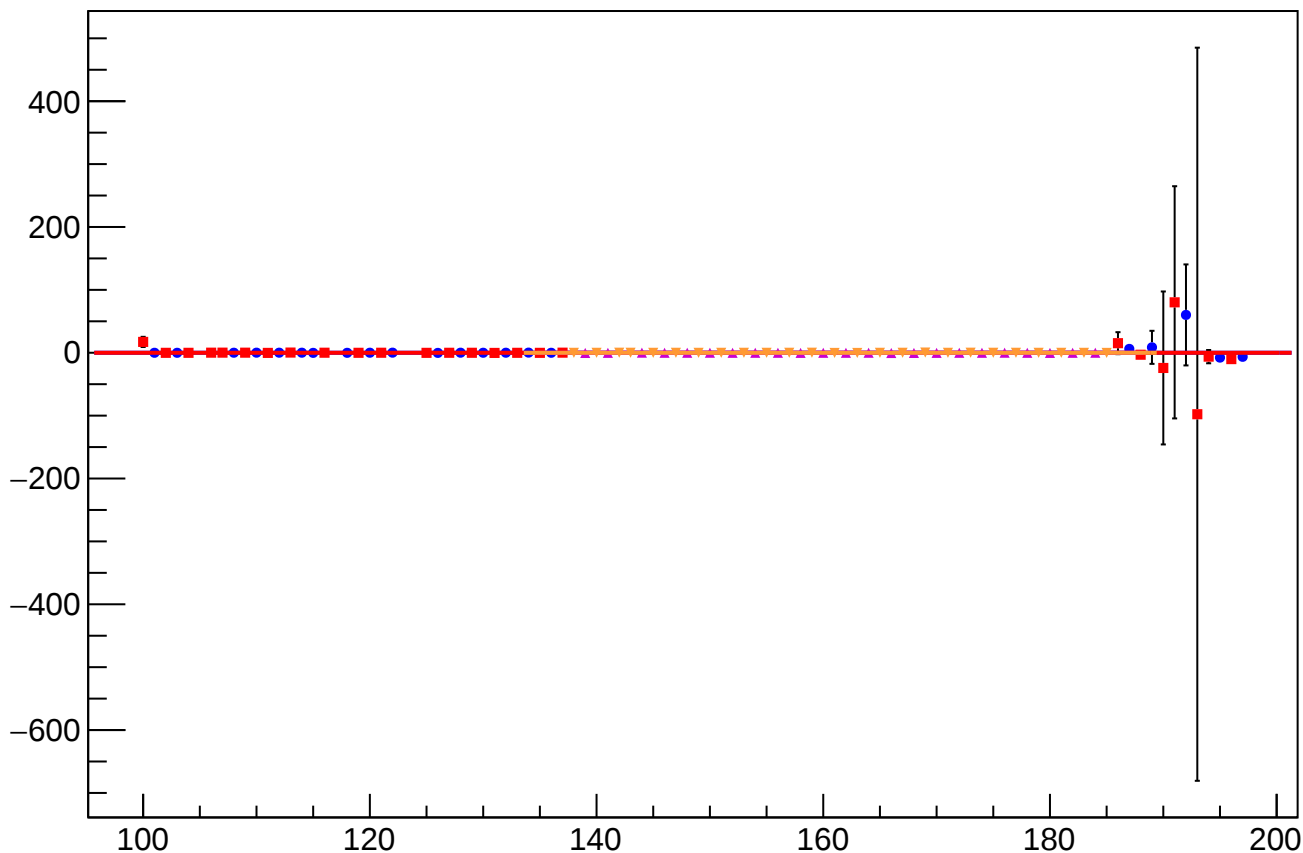
Right: 1.452 $\pm$ 1.398 χ^2 /NDF: 32.1/11

In: -0.025 $\pm$ 0.022 χ^2 /NDF: 41.3/27

Out: -0.095 $\pm$ 0.022 χ^2 /NDF: 67.1/31

All: -0.061 $\pm$ 0.016 χ^2 /NDF: 113.4/59

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 18.3/20

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

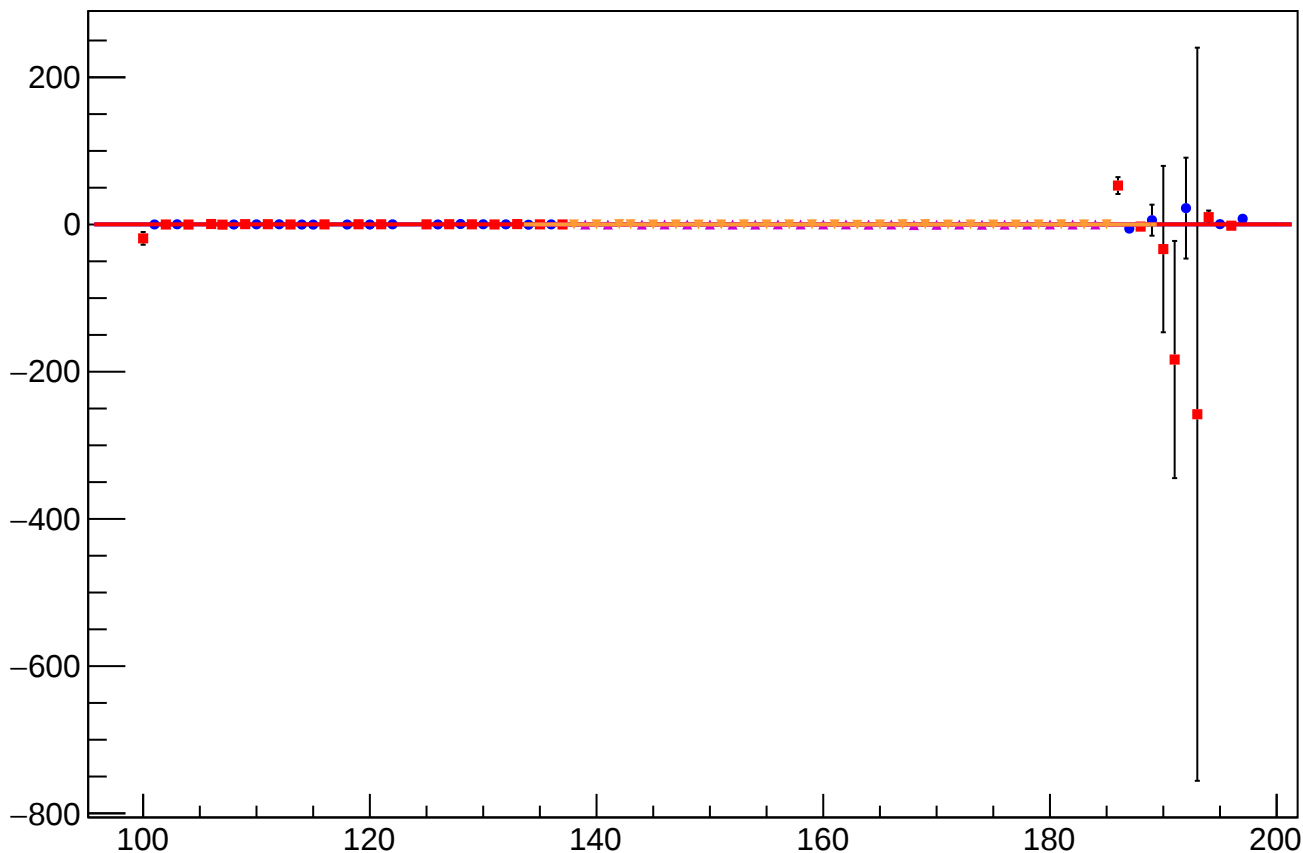
Right: -0.026 ± 0.020 χ^2/NDF : 50.5/45

In: -0.038 ± 0.015 χ^2/NDF : 52.3/43

Out: -0.071 ± 0.015 χ^2/NDF : 58.0/49

All: -0.055 ± 0.010 χ^2/NDF : 112.7/93

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.173 $\pm$ 0.053 χ^2 /NDF: 22.1/20

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

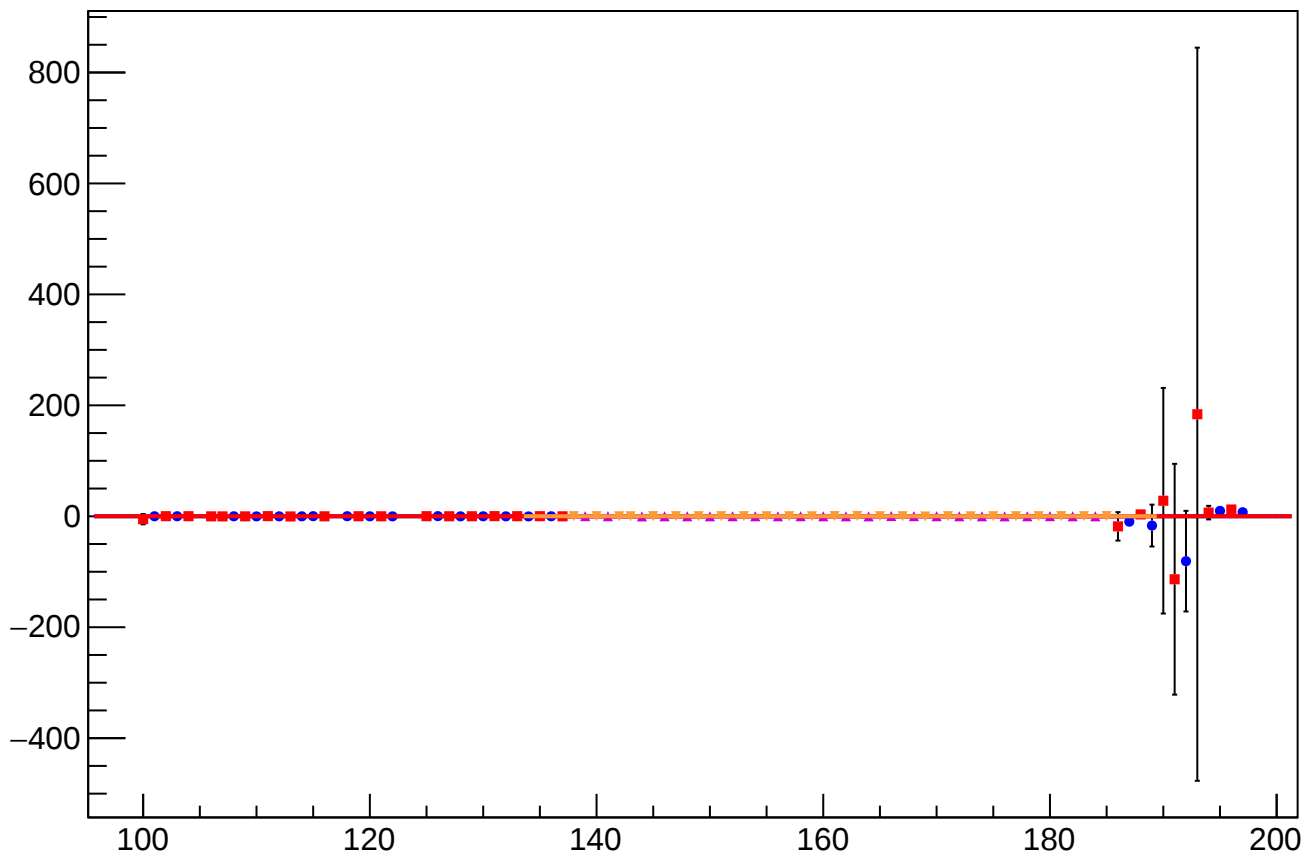
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 72.1/45

In: 0.043 $\pm$ 0.020 χ^2 /NDF:64.8/43

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:96.4/49

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 166.3/93

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 $\chi^2/\text{NDF}: 20.3/20$

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 $\chi^2/\text{NDF}: 63.0/47$

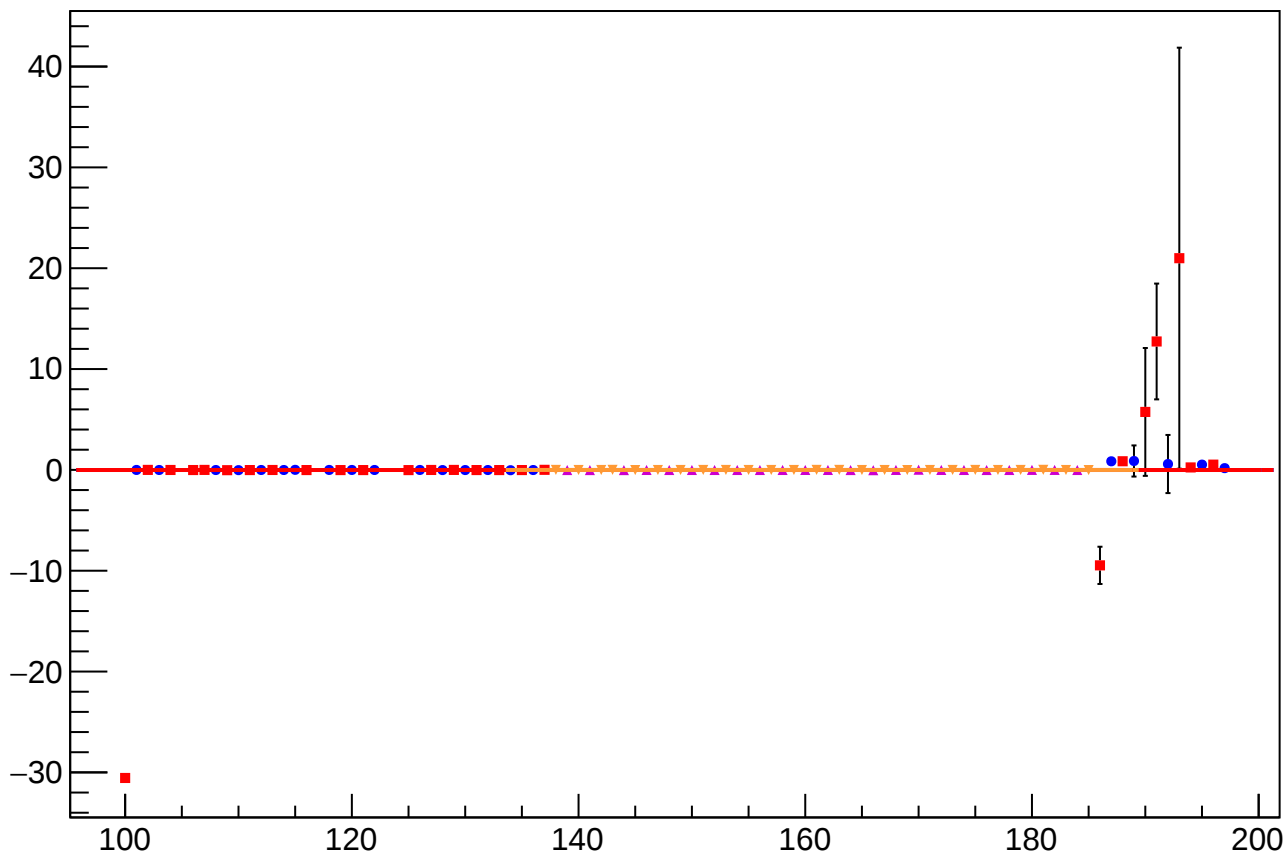
Right: 0.025 ± 0.024 $\chi^2/\text{NDF}: 47.3/45$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 55.5/43$

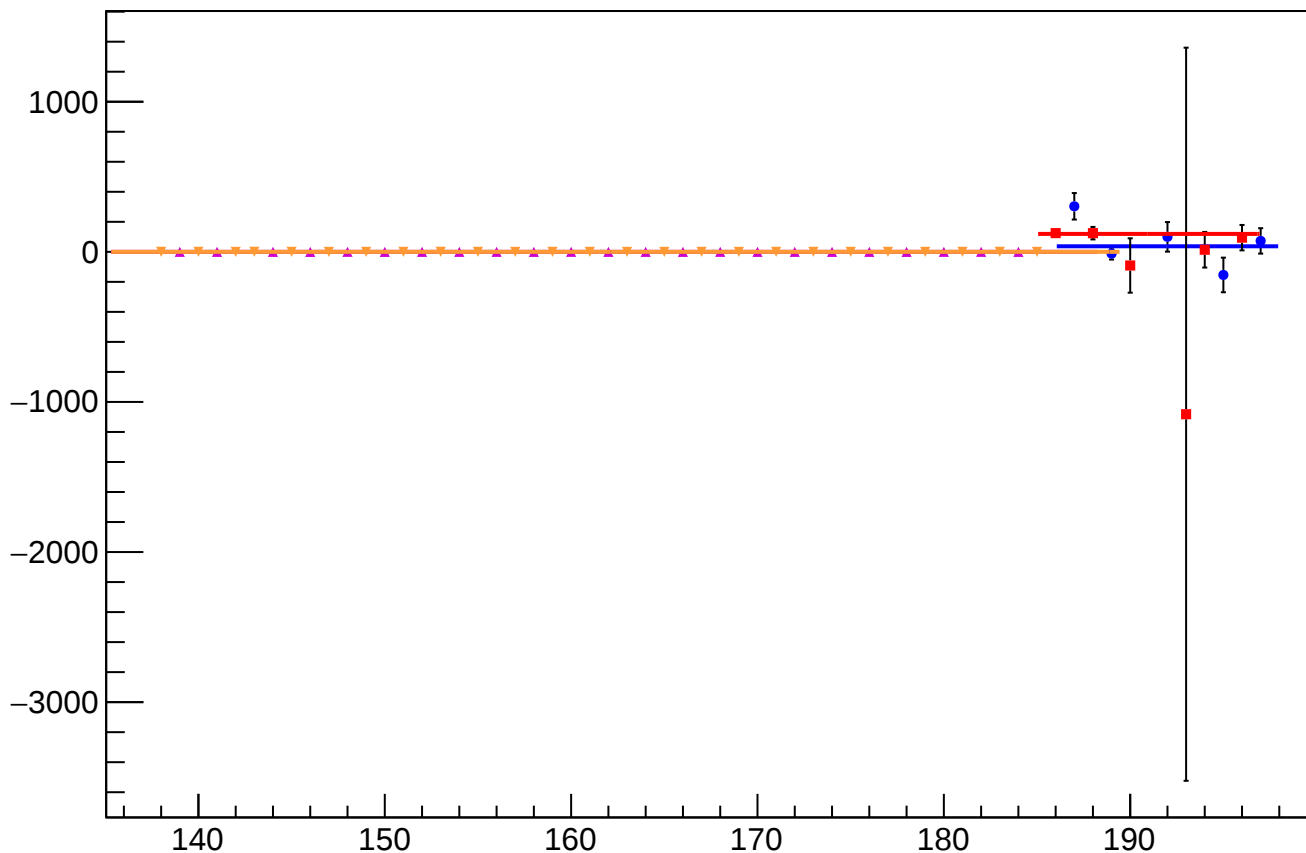
Out: 0.091 ± 0.017 $\chi^2/\text{NDF}: 56.7/49$

All: 0.070 ± 0.012 $\chi^2/\text{NDF}: 115.3/93$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 36.973+/-30.312 χ^2/NDF : 14.0/4

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

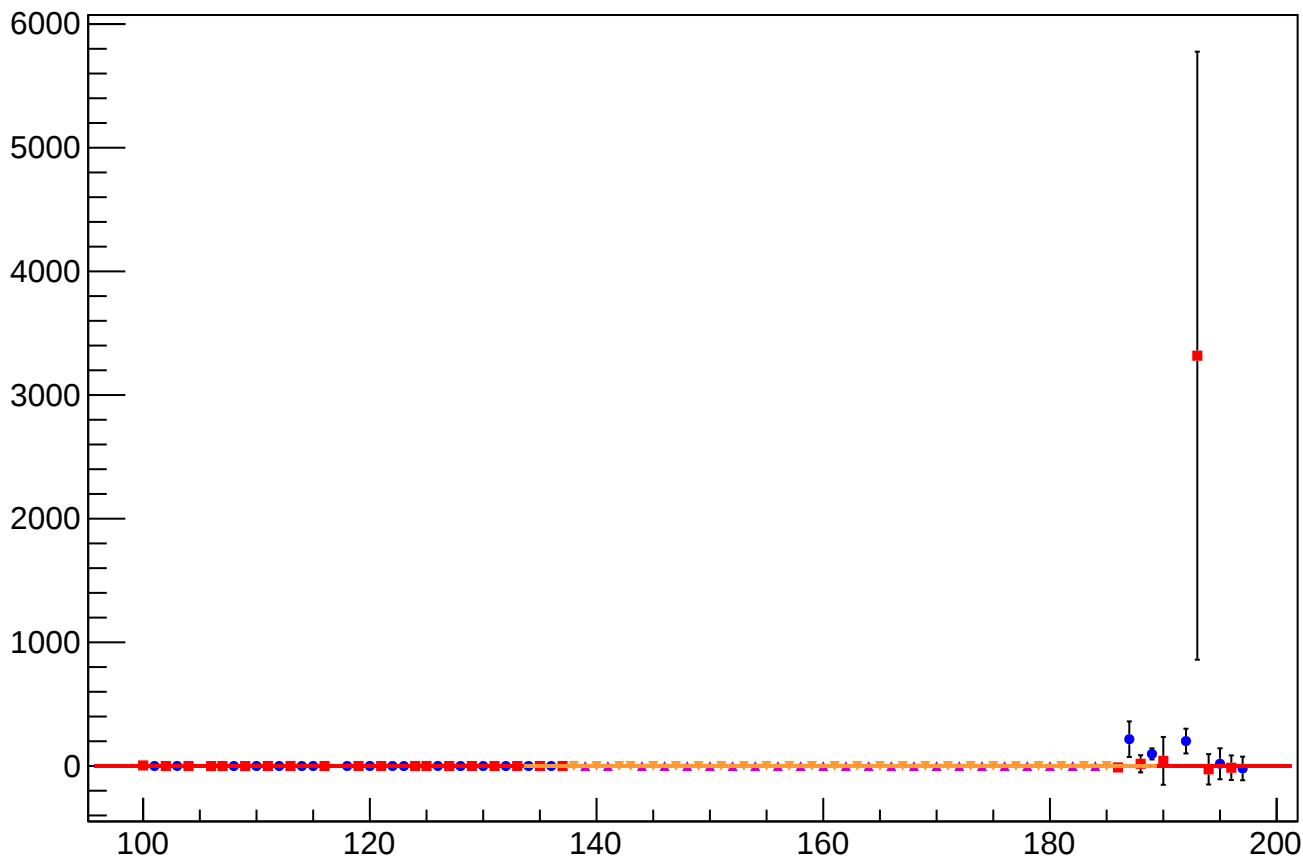
Right: 100.490+/-14.541 χ^2/NDF : 22.3/10

In: 0.002+/-0.028 χ^2/NDF :44.5/27

Out: 0.018+/-0.027 χ^2/NDF :85.5/30

All: 0.010+/-0.019 χ^2/NDF : 130.1/58

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 34.1/21

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 20.7/24

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

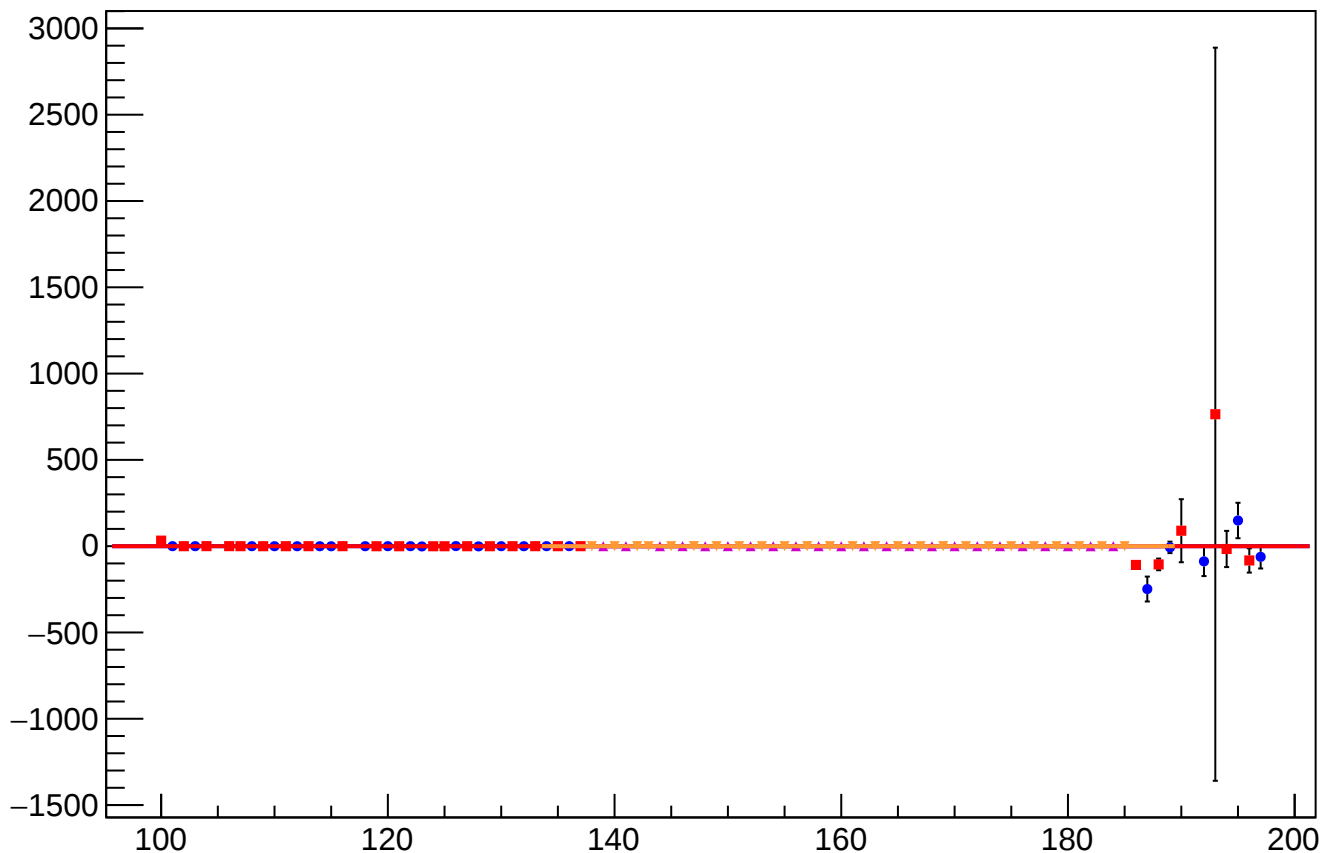
Right: -0.068 ± 0.027 χ^2/NDF : 58.2/46

In: -0.058 ± 0.019 χ^2/NDF : 84.4/44

Out: -0.073 ± 0.019 χ^2/NDF : 47.2/49

All: -0.066 ± 0.013 χ^2/NDF : 131.9/94

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 40.6/21$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 77.6/24$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

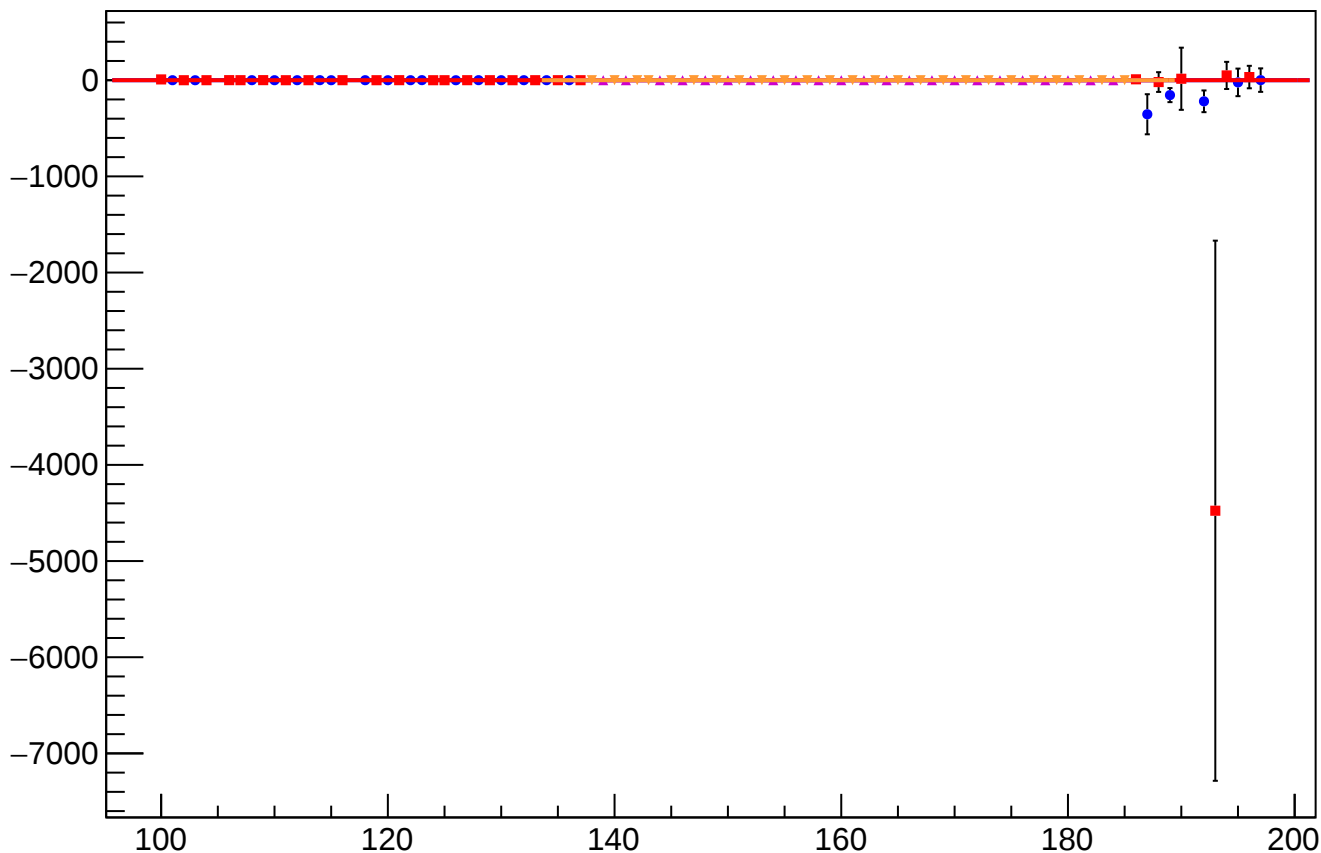
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 118.3/46$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 71.1/44$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 110.5/49$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 181.6/94$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 32.8/21

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

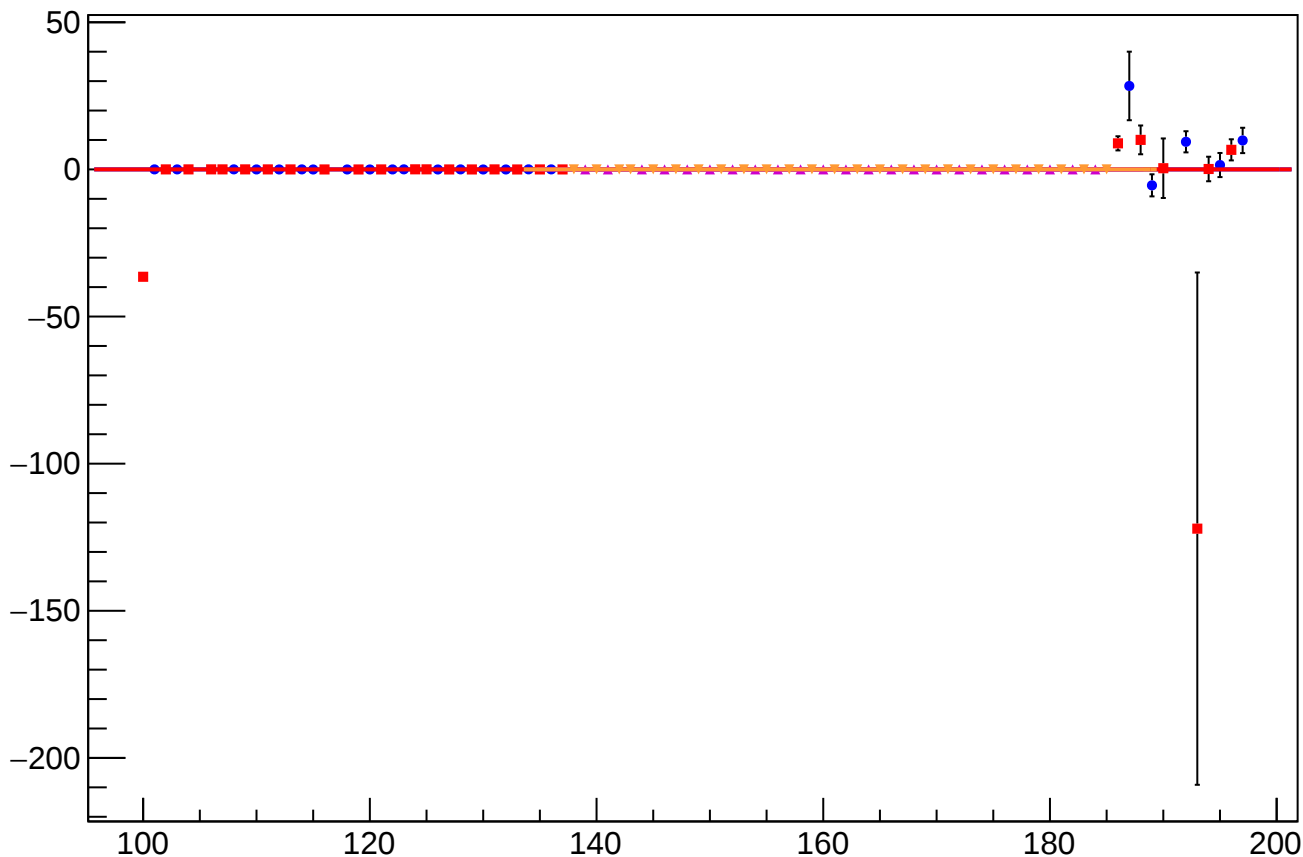
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 56.5/46

In: 0.056 $\pm$ 0.021 χ^2 /NDF:85.6/44

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:46.8/49

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 133.1/94

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 50.7/21

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10472.3/24

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

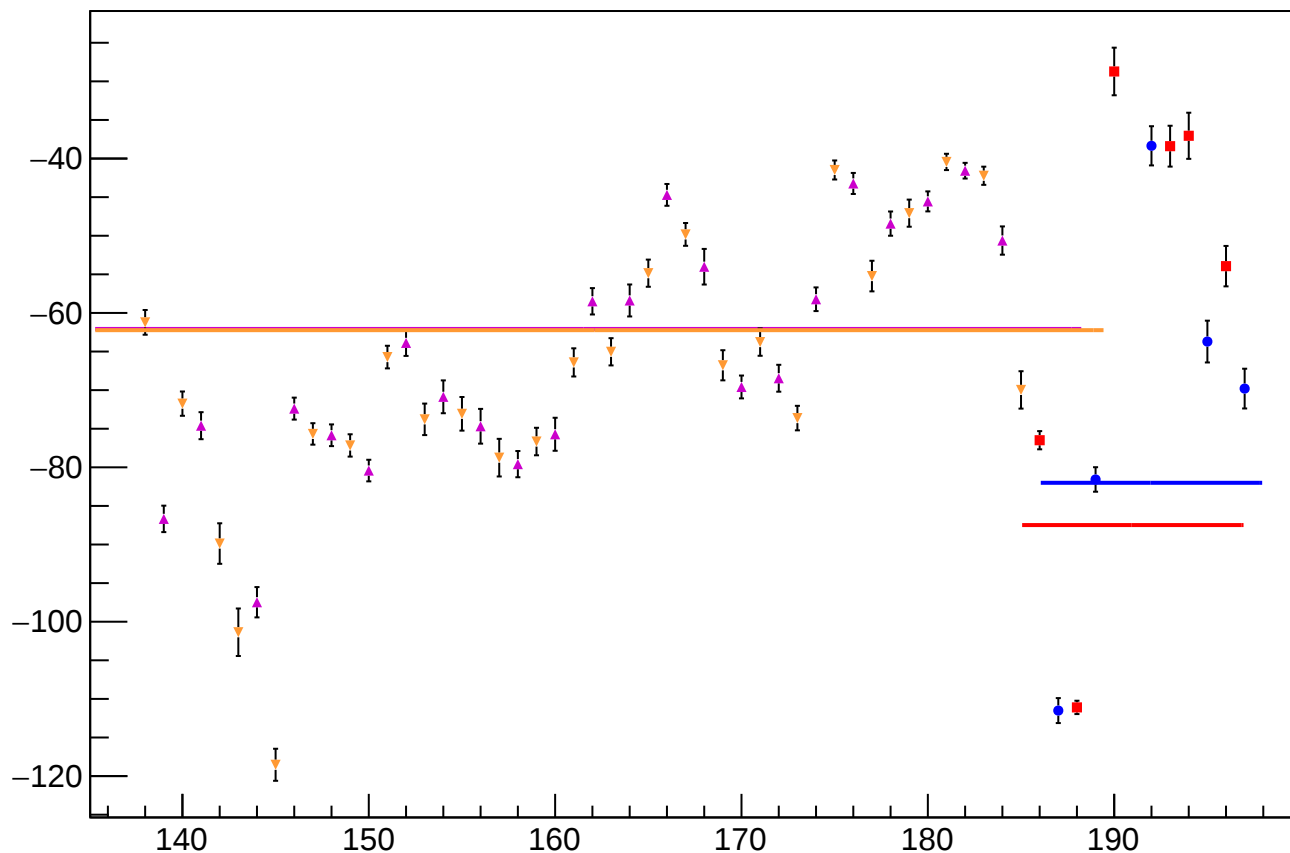
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10523.0/46

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 75.1/44

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10507.6/49

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10582.8/94

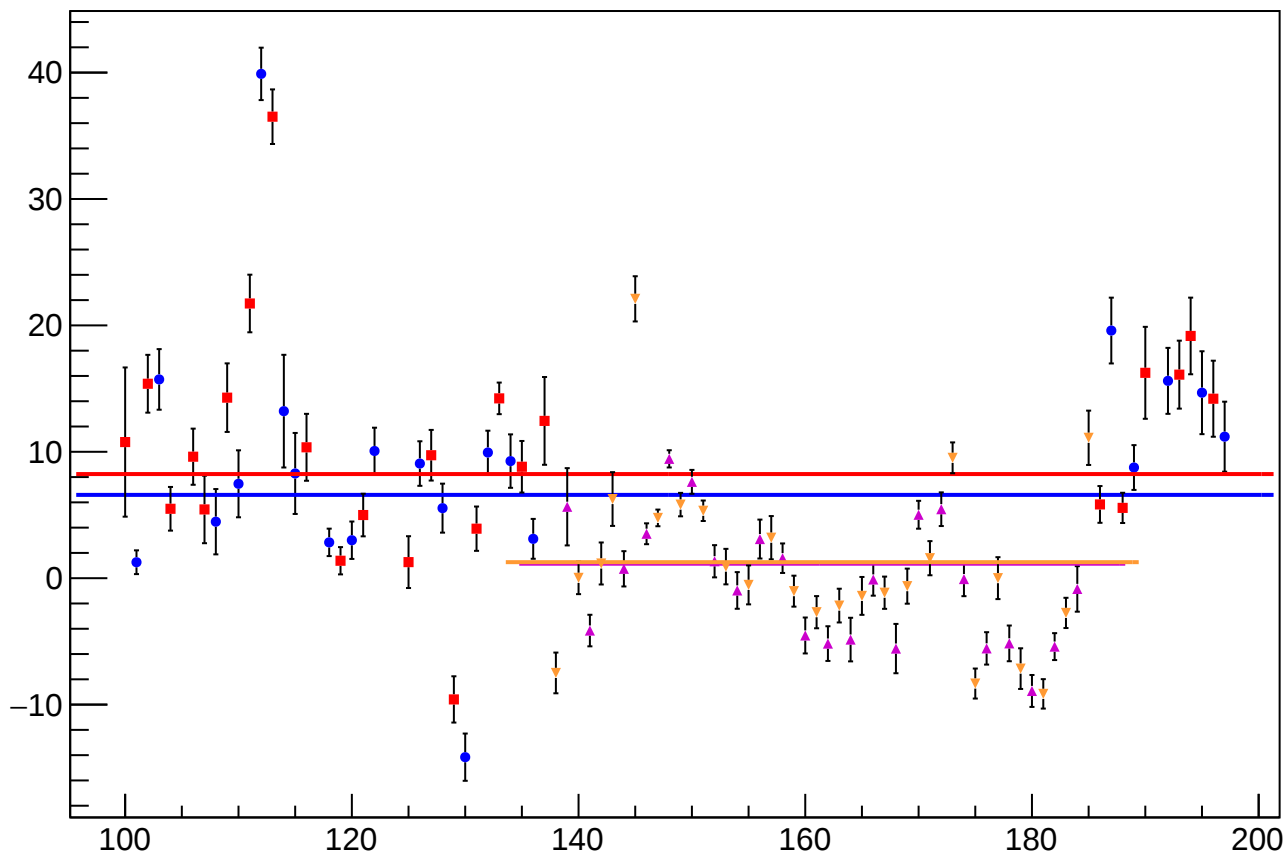
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -82.004 ± 0.905 χ^2/NDF : 696.6/4
 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: -85.714 ± 0.514 χ^2/NDF : 2711.7/10
 In: -64.442 ± 0.312 χ^2/NDF : 3316.1/27
 Out: -67.796 ± 0.293 χ^2/NDF : 5933.8/30
 All: -66.223 ± 0.214 χ^2/NDF : 9311.3/58

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.591 ± 0.400 $\chi^2/\text{NDF}: 512.4/20$

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 $\chi^2/\text{NDF}: 995.0/47$

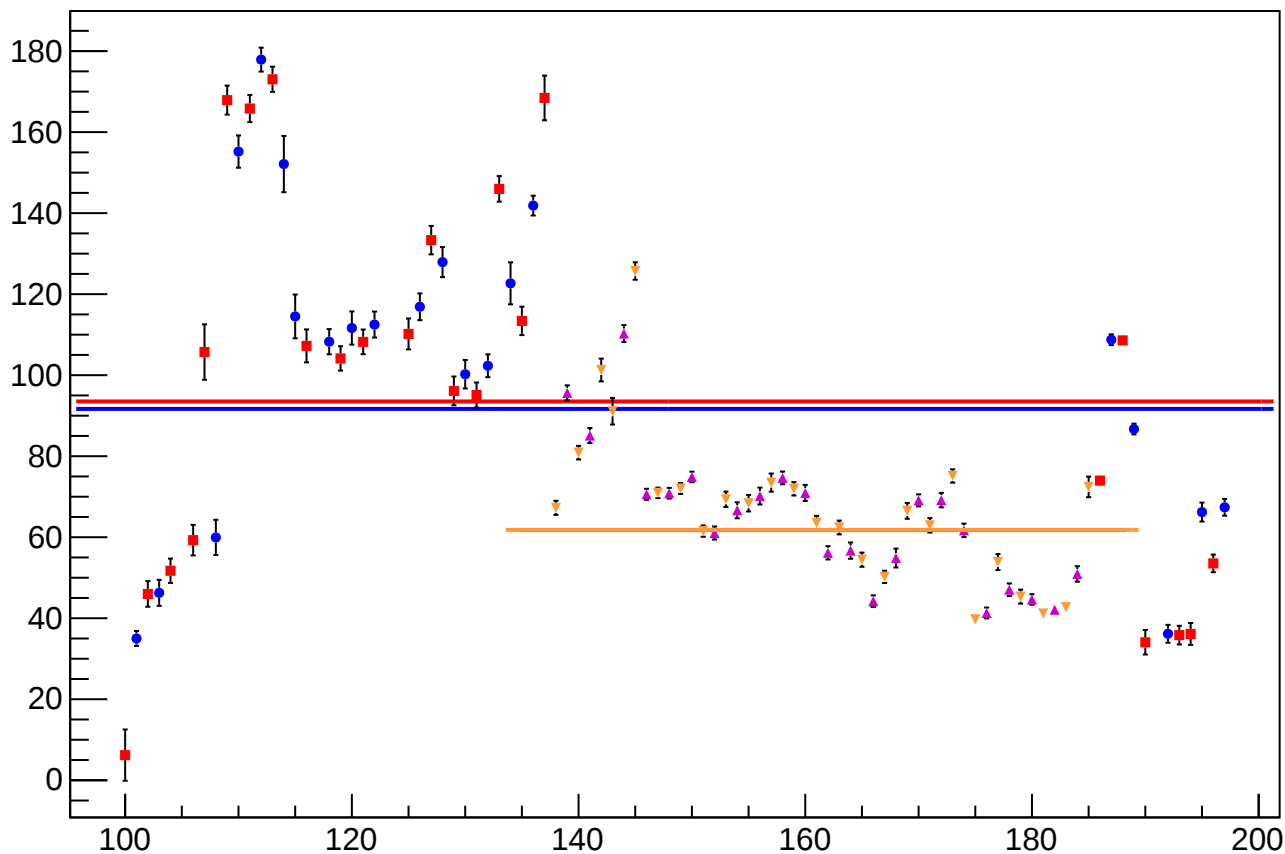
Right: 7.429 ± 0.280 $\chi^2/\text{NDF}: 966.8/44$

In: 2.722 ± 0.215 $\chi^2/\text{NDF}: 1107.0/43$

Out: 3.286 ± 0.211 $\chi^2/\text{NDF}: 1201.2/48$

All: 3.009 ± 0.151 $\chi^2/\text{NDF}: 2311.7/92$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 91.677 $\pm$ 0.554 χ^2 /NDF: 4188.0/20

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

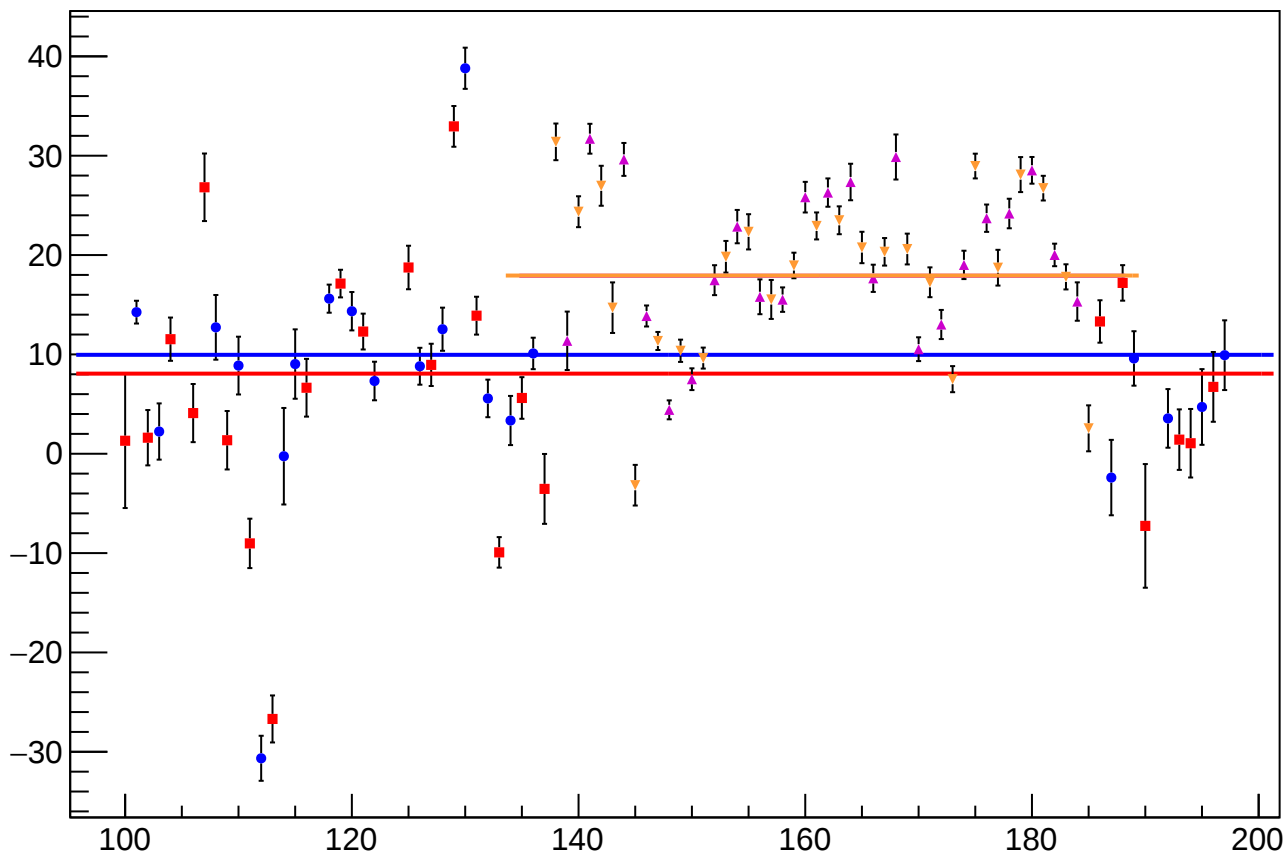
Right: 92.812 $\pm$ 0.342 χ^2 /NDF: 9831.1/44

In: 69.604 $\pm$ 0.283 χ^2 /NDF:8761.0/43

Out: 73.405 $\pm$ 0.263 χ^2 /NDF:11684.7/48

All: 71.644 $\pm$ 0.193 χ^2 /NDF: 20542.2/92

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.957 ± 0.472 $\chi^2/\text{NDF}: 596.1/20$

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 $\chi^2/\text{NDF}: 1402.5/47$

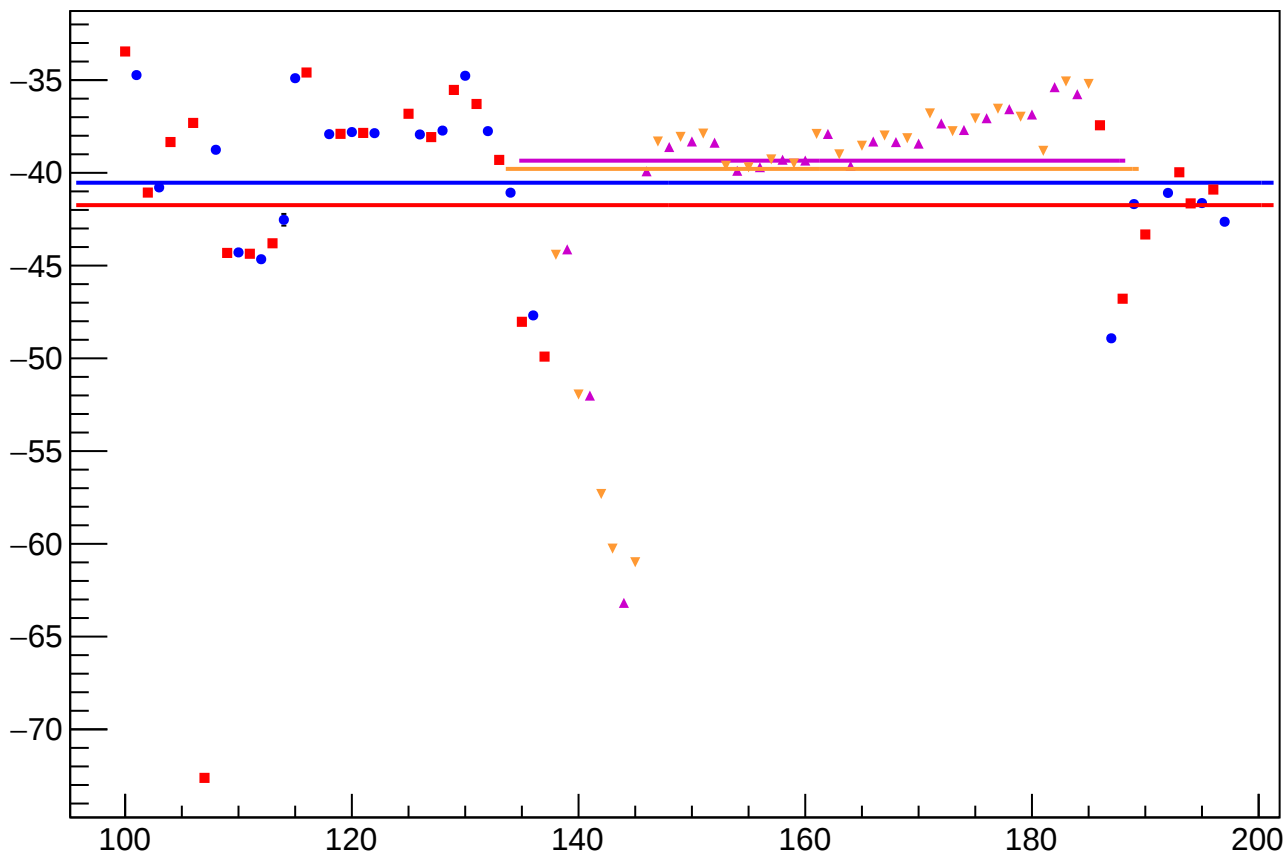
Right: 9.013 ± 0.334 $\chi^2/\text{NDF}: 1339.2/44$

In: 15.707 ± 0.248 $\chi^2/\text{NDF}: 1528.4/43$

Out: 15.253 ± 0.247 $\chi^2/\text{NDF}: 1728.4/48$

All: 15.478 ± 0.175 $\chi^2/\text{NDF}: 3258.5/92$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.533 ± 0.025 $\chi^2/\text{NDF}: 27323.3/20$

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 $\chi^2/\text{NDF}: 282639.2/47$

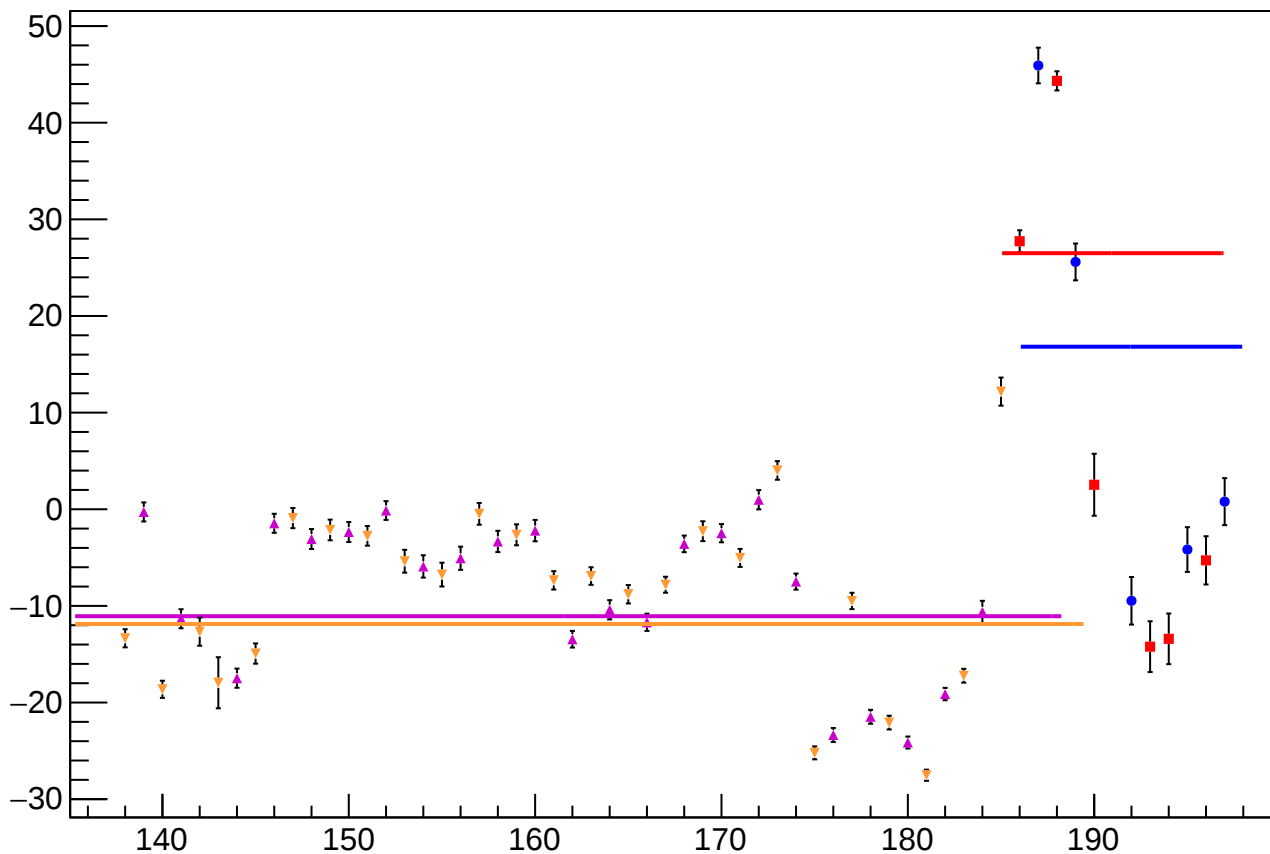
Right: -41.158 ± 0.017 $\chi^2/\text{NDF}: 94501.3/44$

In: -39.613 ± 0.012 $\chi^2/\text{NDF}: 145671.9/43$

Out: -40.258 ± 0.012 $\chi^2/\text{NDF}: 236401.2/48$

All: -39.937 ± 0.008 $\chi^2/\text{NDF}: 383534.1/92$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected

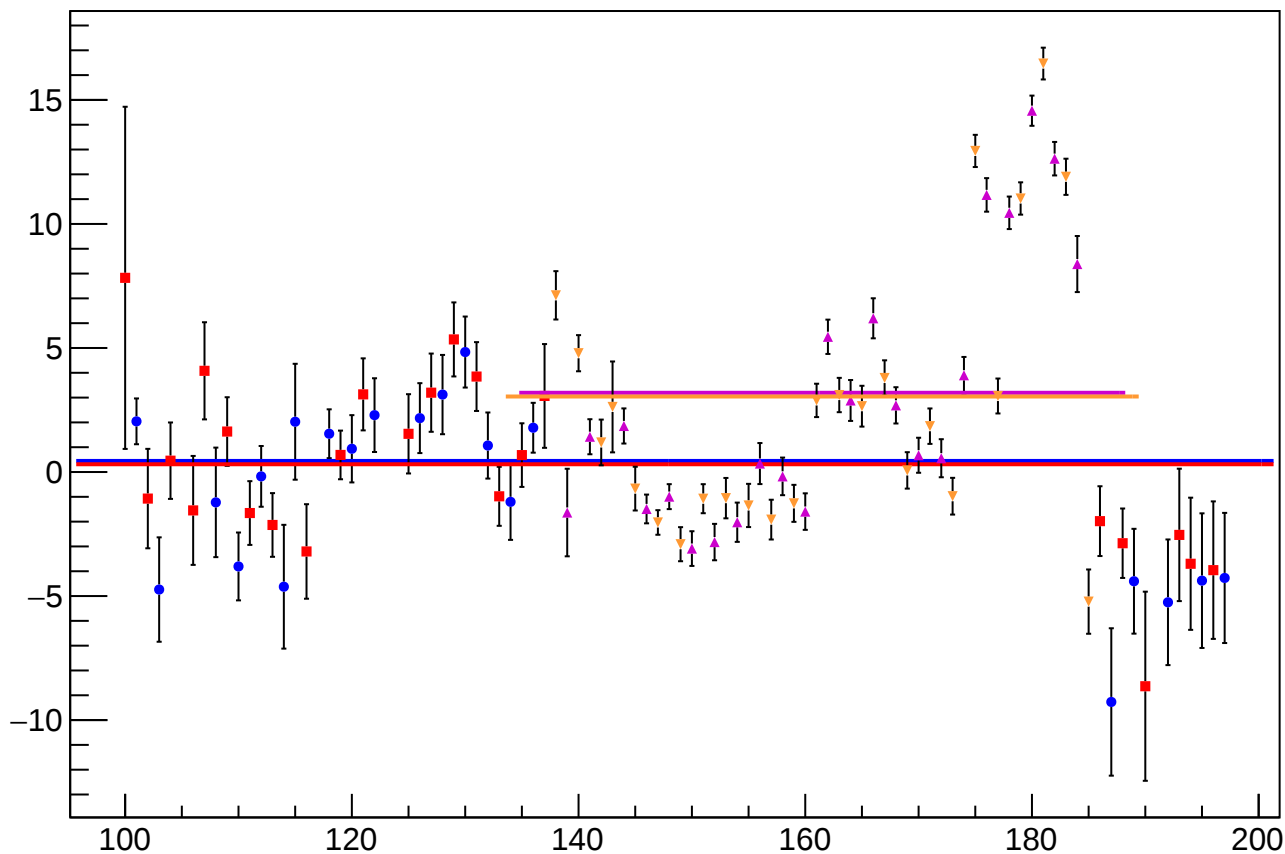


Right In: 16.821 ± 0.958 $\chi^2/\text{NDF}: 509.7/4$
 Left Out: -11.873 ± 0.186 $\chi^2/\text{NDF}: 2745.2/24$
 Right Out: 26.499 ± 0.653 $\chi^2/\text{NDF}: 1016.0/5$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.473 ± 0.132 $\chi^2/\text{NDF}: 4859.2/47$
 Right: 23.429 ± 0.540 $\chi^2/\text{NDF}: 1595.3/10$
 In: -10.033 ± 0.184 $\chi^2/\text{NDF}: 3430.5/27$
 Out: -8.983 ± 0.179 $\chi^2/\text{NDF}: 6954.4/30$

All: -9.493 ± 0.129 $\chi^2/\text{NDF}: 10401.5/58$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.446 ± 0.328 χ^2/NDF : 71.3/20

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

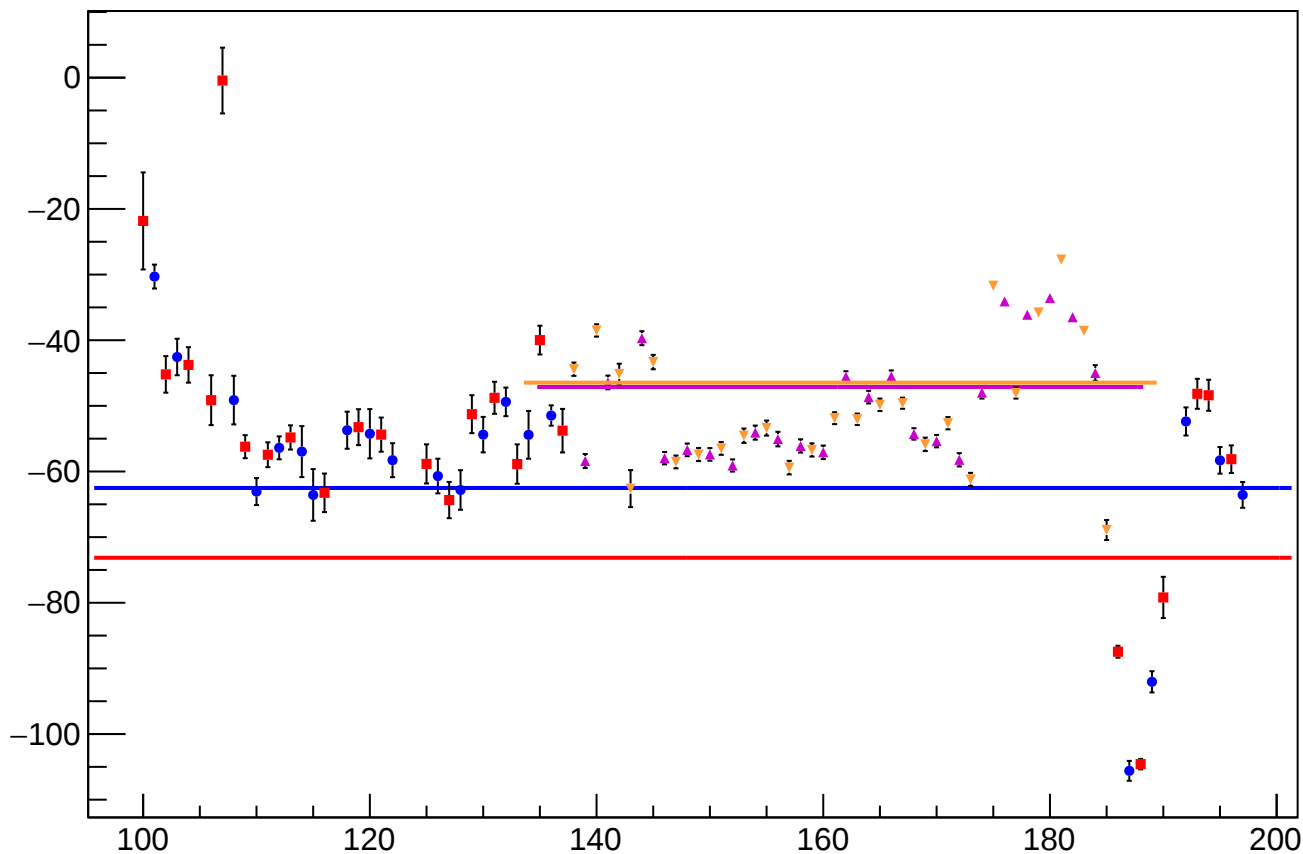
Right: 0.379 ± 0.231 χ^2/NDF : 135.6/44

In: 2.718 ± 0.136 χ^2/NDF : 1424.5/43

Out: 2.577 ± 0.134 χ^2/NDF : 1580.1/48

All: 2.647 ± 0.096 χ^2/NDF : 3005.2/92

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.511 ± 0.489 $\chi^2/\text{NDF}: 1680.2/20$

Left Out: -46.463 ± 0.186 $\chi^2/\text{NDF}: 3319.7/24$

Right Out: -73.143 ± 0.405 $\chi^2/\text{NDF}: 3452.7/23$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.793 ± 0.132 $\chi^2/\text{NDF}: 5842.0/47$

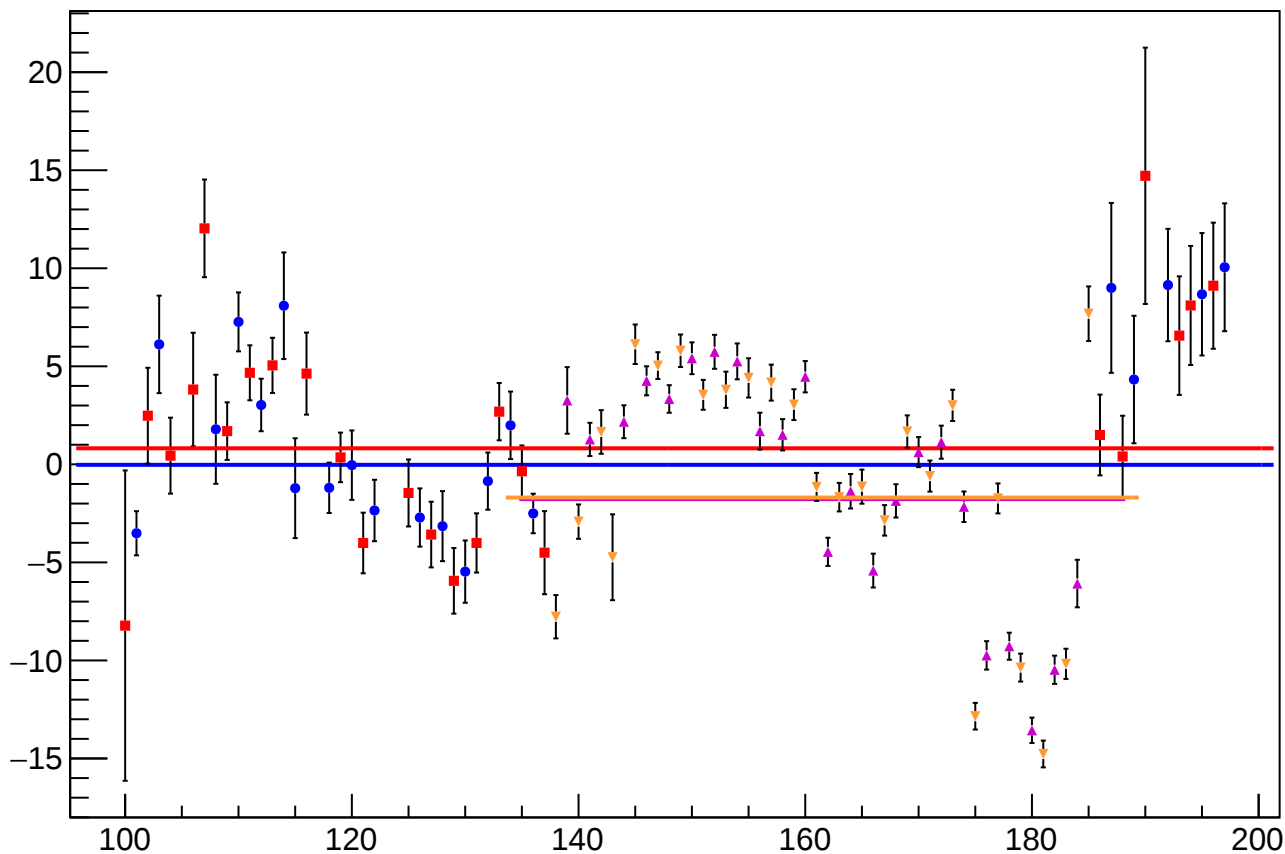
Right: -68.823 ± 0.312 $\chi^2/\text{NDF}: 5413.1/44$

In: -49.091 ± 0.175 $\chi^2/\text{NDF}: 5058.2/43$

Out: -51.120 ± 0.169 $\chi^2/\text{NDF}: 10357.5/48$

All: -50.139 ± 0.122 $\chi^2/\text{NDF}: 15485.3/92$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.375 $\chi^2/\text{NDF}: 116.6/20$

Left Out: -1.693 ± 0.167 $\chi^2/\text{NDF}: 1485.7/24$

Right Out: 0.819 ± 0.377 $\chi^2/\text{NDF}: 117.9/23$

Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.731 ± 0.119 $\chi^2/\text{NDF}: 2737.1/47$

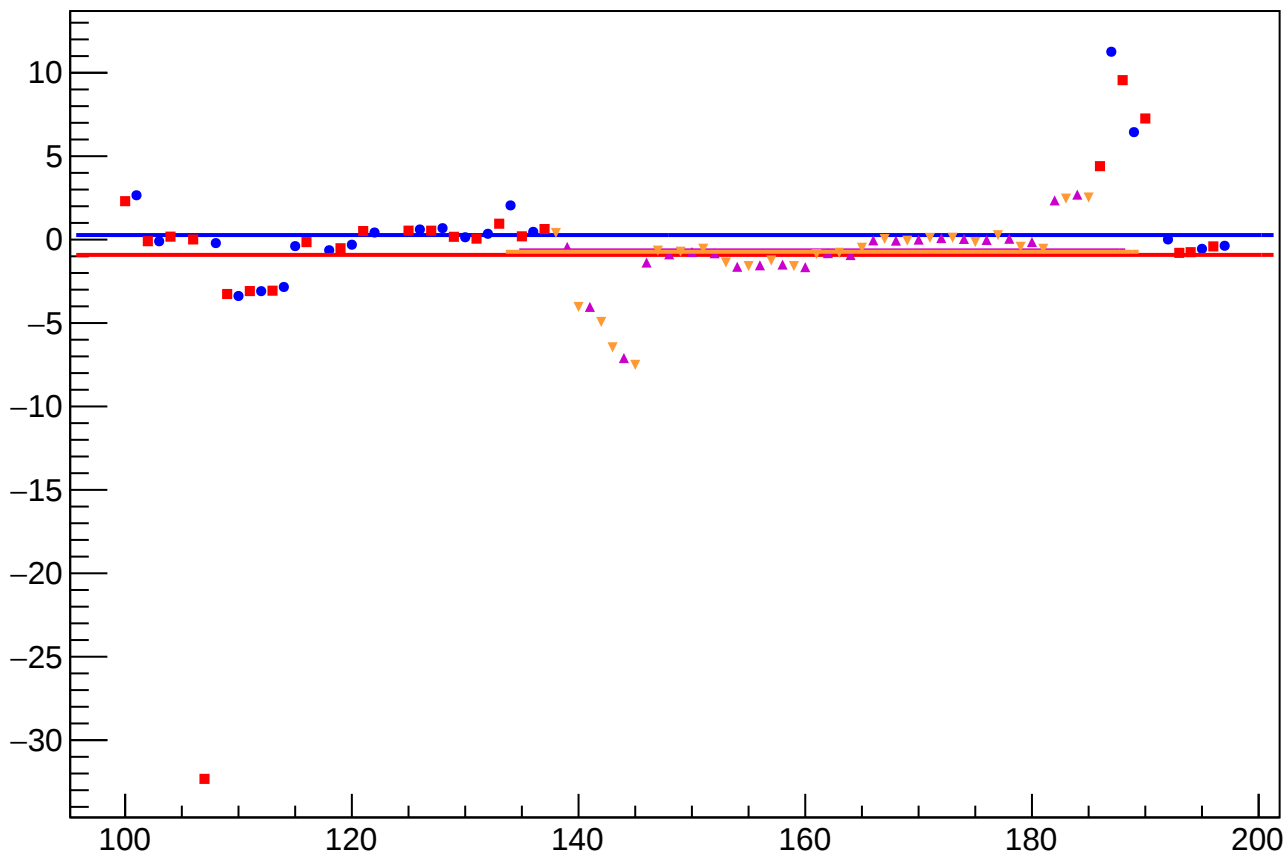
Right: 0.395 ± 0.266 $\chi^2/\text{NDF}: 237.0/44$

In: -1.476 ± 0.154 $\chi^2/\text{NDF}: 1385.9/43$

Out: -1.282 ± 0.152 $\chi^2/\text{NDF}: 1640.9/48$

All: -1.378 ± 0.108 $\chi^2/\text{NDF}: 3027.6/92$

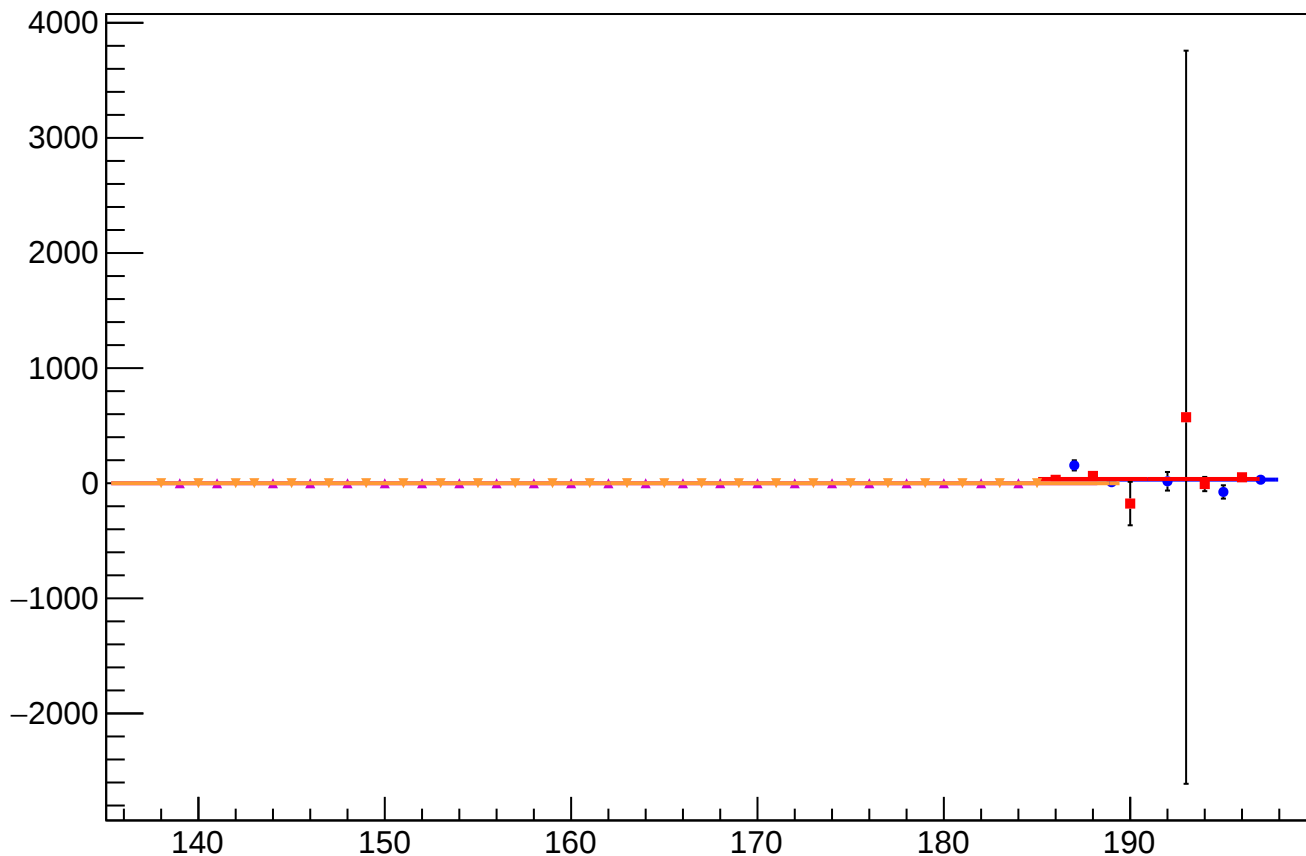
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.273 ± 0.020 $\chi^2/\text{NDF}: 9227.8/20$
 Left Out: -0.728 ± 0.008 $\chi^2/\text{NDF}: 56403.8/24$
 Right Out: -0.916 ± 0.020 $\chi^2/\text{NDF}: 92263.0/23$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.686 ± 0.005 $\chi^2/\text{NDF}: 100633.3/47$
 Right: -0.329 ± 0.014 $\chi^2/\text{NDF}: 103304.2/44$
 In: -0.525 ± 0.007 $\chi^2/\text{NDF}: 55250.6/43$
 Out: -0.753 ± 0.007 $\chi^2/\text{NDF}: 148746.6/48$
 All: -0.640 ± 0.005 $\chi^2/\text{NDF}: 204506.3/92$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 31.471 $\pm$ 18.934 χ^2 /NDF: 12.0/4

Left Out: -0.036 $\pm$ 0.018 χ^2 /NDF: 35.6/24

Right Out: 37.022 $\pm$ 10.011 χ^2 /NDF: 3.9/5

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF: 35.1/22

Left: -0.023 $\pm$ 0.013 χ^2 /NDF: 71.8/47

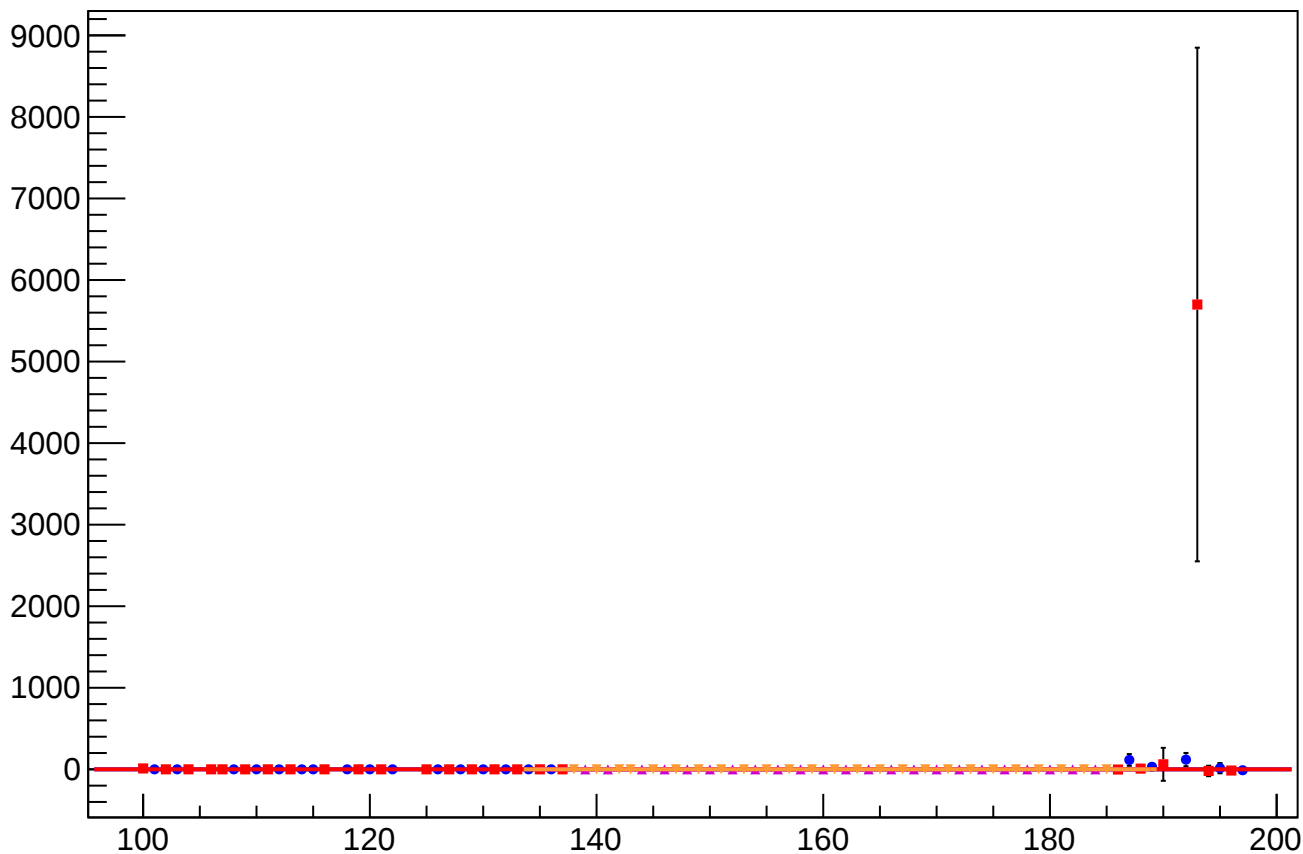
Right: 35.809 $\pm$ 8.850 χ^2 /NDF: 15.9/10

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 49.9/27

Out: -0.036 $\pm$ 0.018 χ^2 /NDF: 53.2/30

All: -0.023 $\pm$ 0.013 χ^2 /NDF: 104.1/58

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 17.8/20$

Left Out: -0.071 ± 0.014 $\chi^2/\text{NDF}: 28.3/24$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 16.6/23$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.067 ± 0.010 $\chi^2/\text{NDF}: 69.5/47$

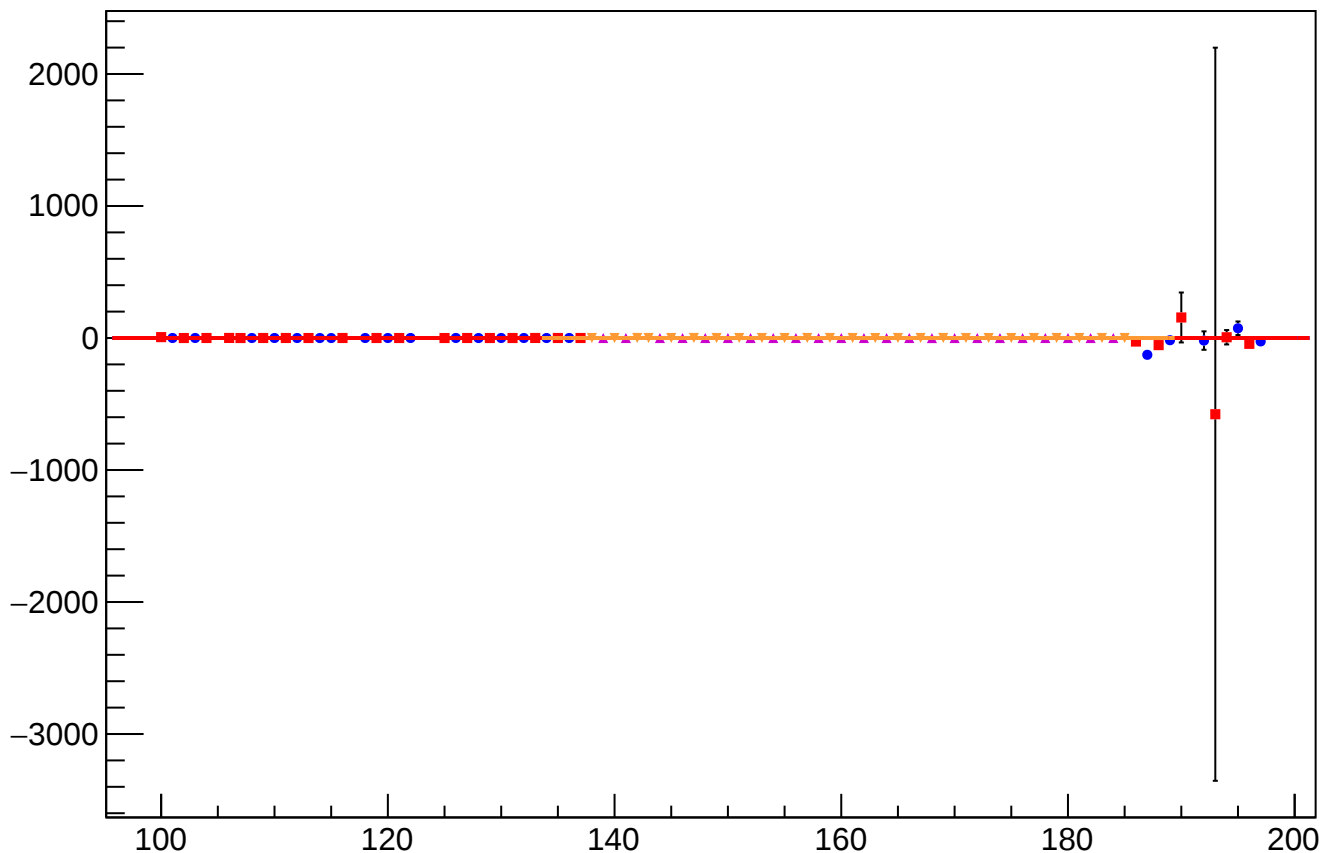
Right: -0.049 ± 0.017 $\chi^2/\text{NDF}: 39.1/44$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 62.2/43$

Out: -0.075 ± 0.012 $\chi^2/\text{NDF}: 45.2/48$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 109.5/92$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 24.7/20

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

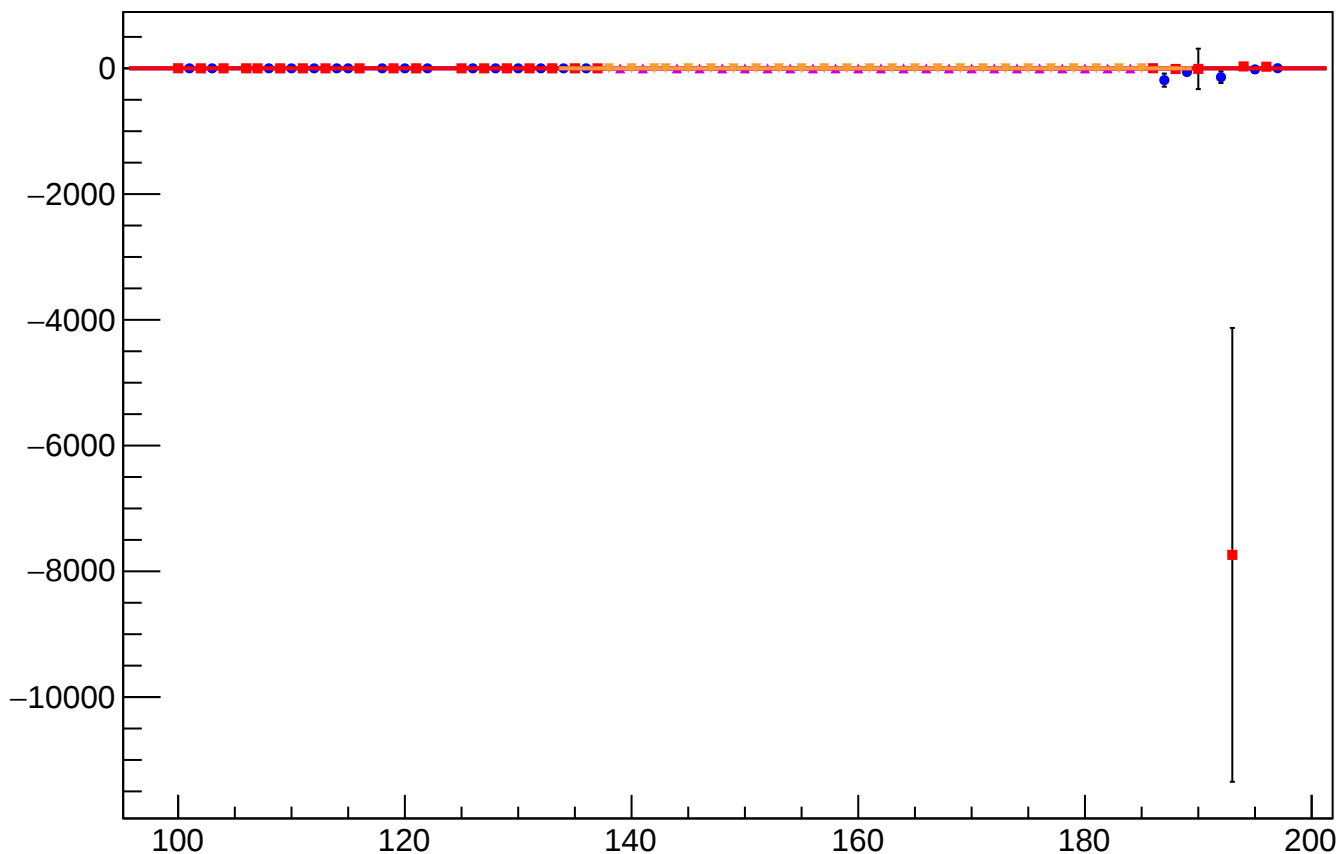
Right: 0.023+/-0.031 χ^2/NDF : 54.0/44

In: -0.005+/-0.017 χ^2/NDF :61.8/43

Out: 0.033+/-0.016 χ^2/NDF :61.8/48

All: 0.014+/-0.012 χ^2/NDF : 126.3/92

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 18.5/20

Left Out: 0.084 $\pm$ 0.016 χ^2 /NDF:28.1/24

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 13.1/23

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.077 $\pm$ 0.011 χ^2 /NDF: 73.3/47

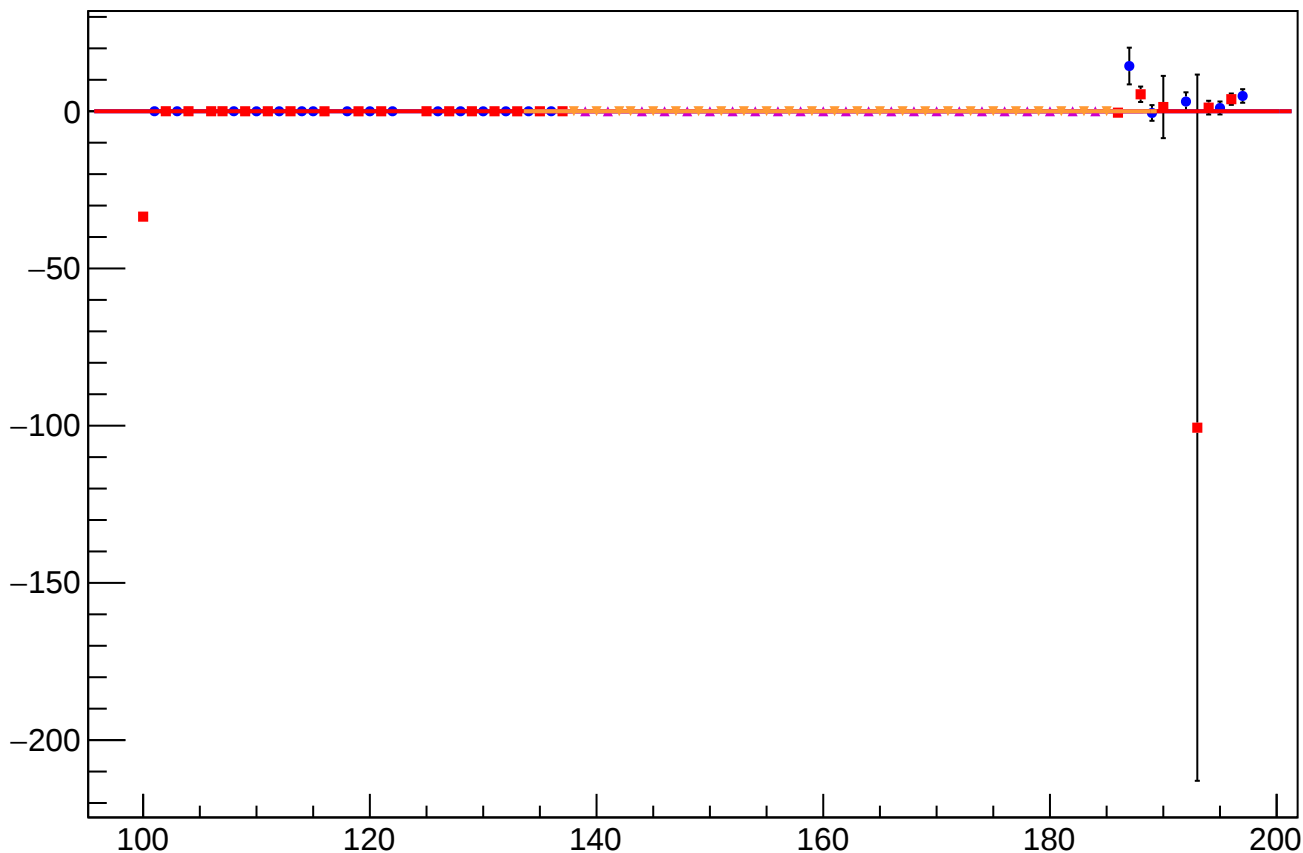
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 37.7/44

In: 0.053 $\pm$ 0.014 χ^2 /NDF:67.1/43

Out: 0.089 $\pm$ 0.014 χ^2 /NDF:41.6/48

All: 0.071 $\pm$ 0.010 χ^2 /NDF: 112.1/92

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 34.1/20

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

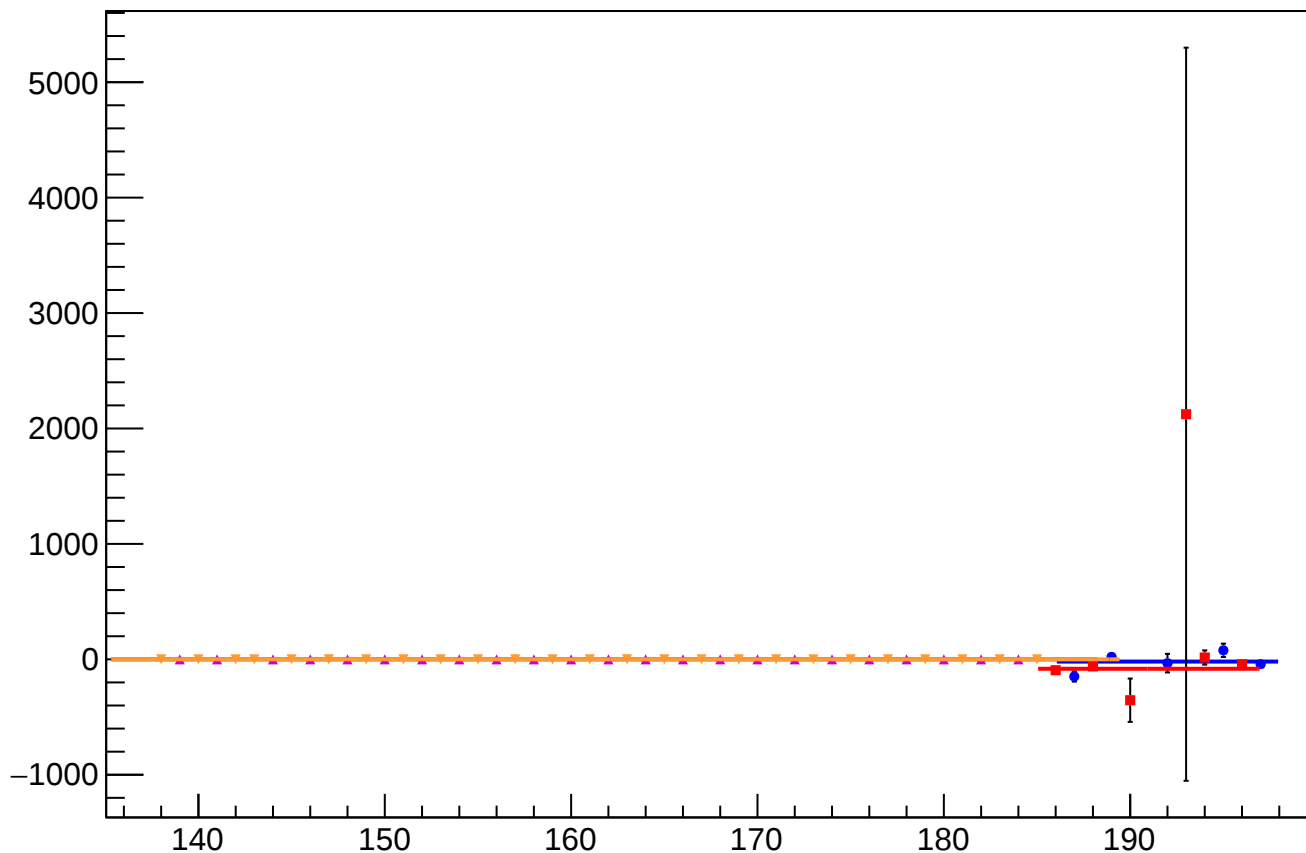
Right: -0.006 ± 0.001 χ^2/NDF : 26553.7/44

In: -0.001 ± 0.001 χ^2/NDF : 68.1/43

Out: -0.001 ± 0.001 χ^2/NDF : 26561.8/48

All: -0.001 ± 0.000 χ^2/NDF : 26630.0/92

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.330 ± 18.923 χ^2/NDF : 13.8/4

Left Out: -0.059 ± 0.018 χ^2/NDF : 41.7/24

Right Out: -81.776 ± 10.013 χ^2/NDF : 8.0/5

Left In: -0.009 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.034 ± 0.013 χ^2/NDF : 80.7/47

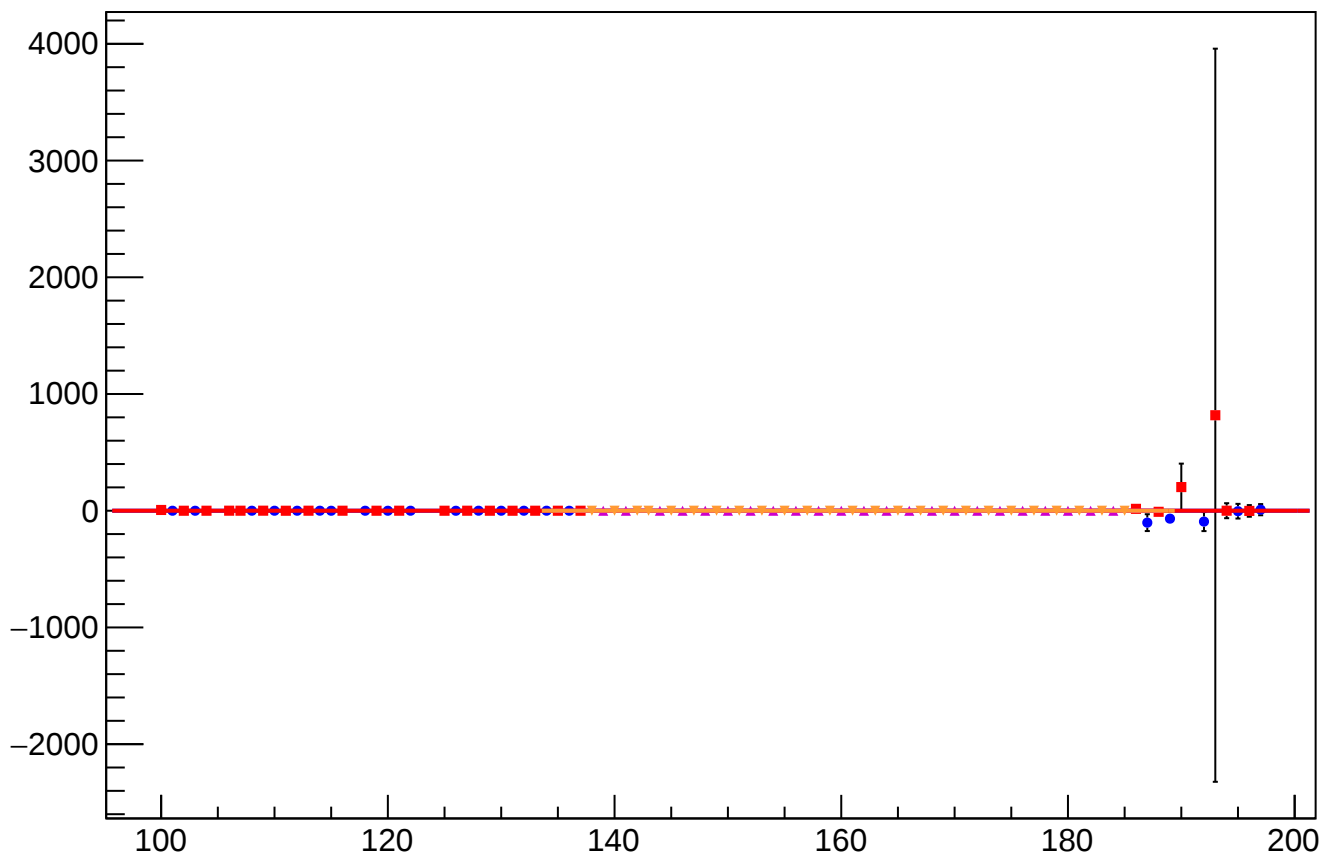
Right: -68.115 ± 8.851 χ^2/NDF : 30.3/10

In: -0.009 ± 0.018 χ^2/NDF : 49.9/27

Out: -0.059 ± 0.018 χ^2/NDF : 116.3/30

All: -0.035 ± 0.013 χ^2/NDF : 170.2/58

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 33.0/20

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

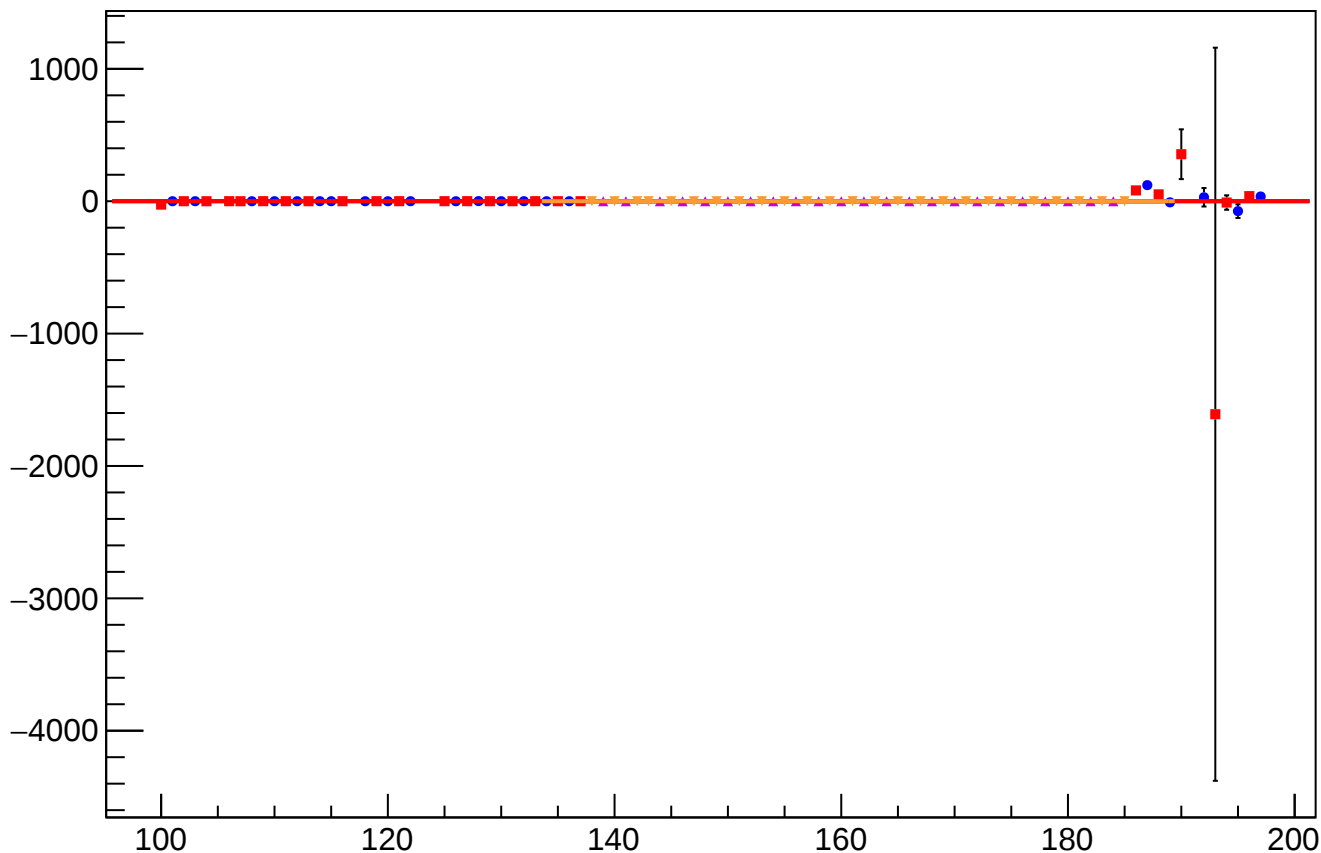
Right: 0.021+/-0.017 χ^2/NDF : 64.8/44

In: 0.006+/-0.012 χ^2/NDF : 82.6/43

Out: 0.001+/-0.012 χ^2/NDF : 63.4/48

All: 0.003+/-0.009 χ^2/NDF : 146.1/92

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 44.5/20

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

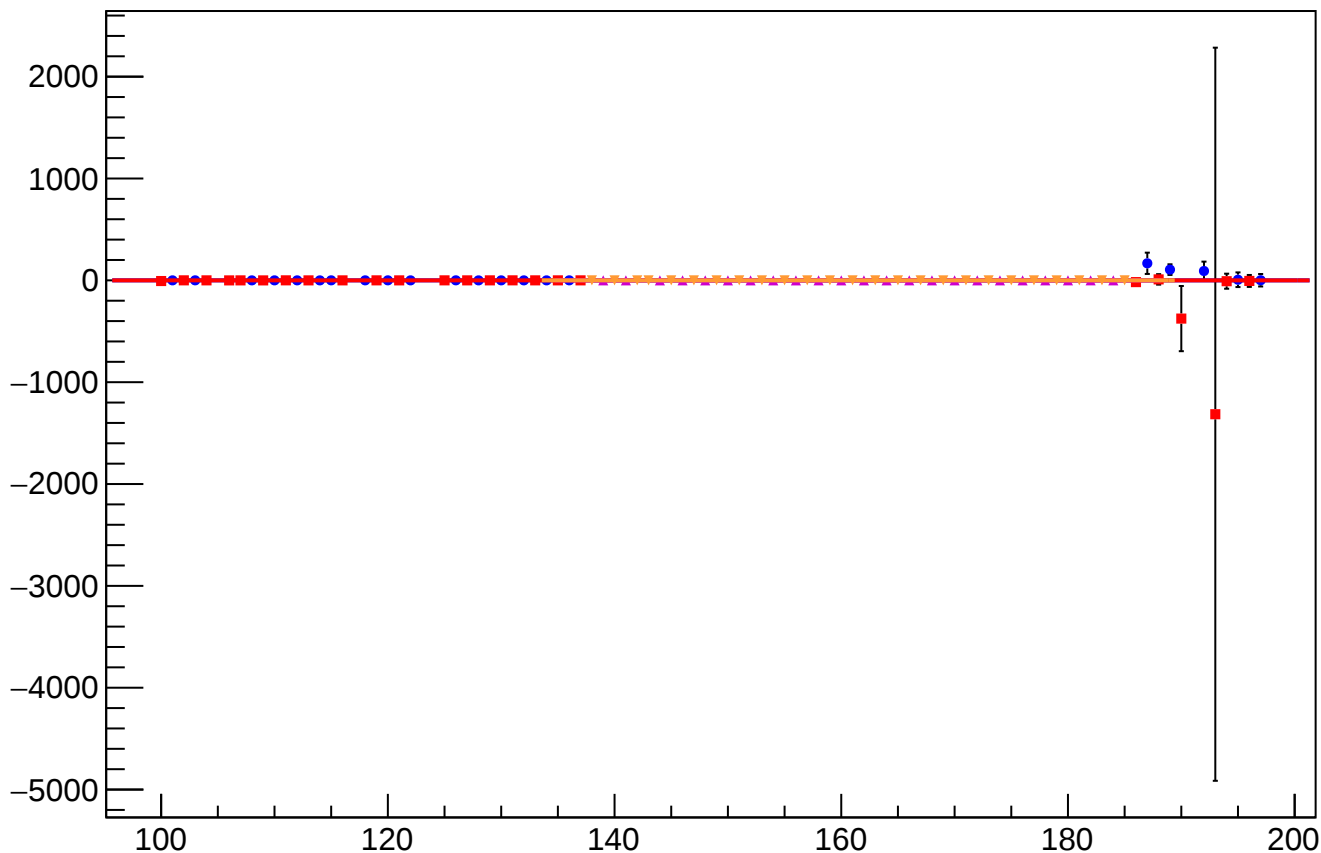
Right: 0.176+/-0.031 χ^2/NDF : 152.0/44

In: 0.040+/-0.017 χ^2/NDF :88.9/43

Out: 0.074+/-0.016 χ^2/NDF :156.6/48

All: 0.057+/-0.012 χ^2/NDF : 247.6/92

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 32.3/20

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

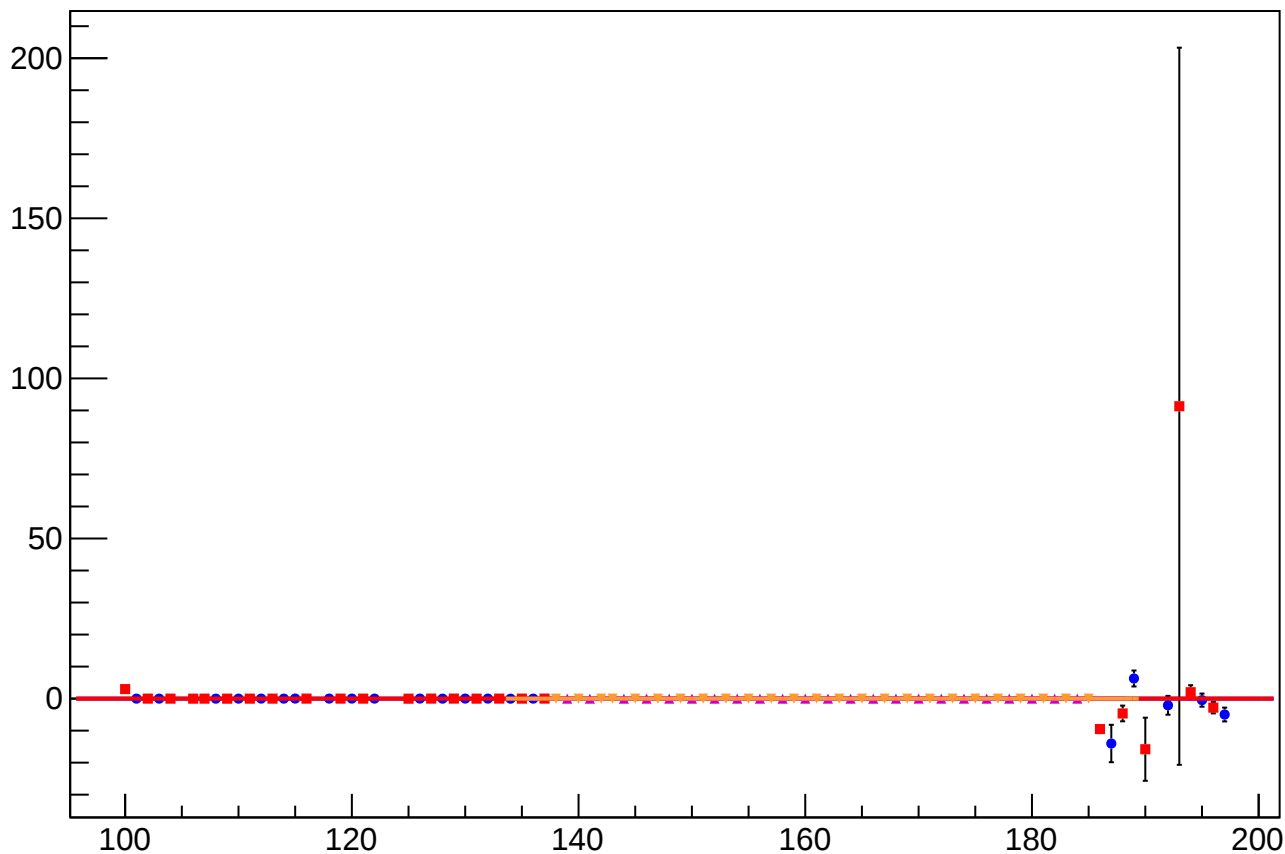
Right: -0.027 ± 0.020 χ^2/NDF : 61.6/44

In: 0.002 ± 0.014 χ^2/NDF : 82.6/43

Out: 0.005 ± 0.014 χ^2/NDF : 66.1/48

All: 0.003 ± 0.010 χ^2/NDF : 148.8/92

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 45.4/20

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

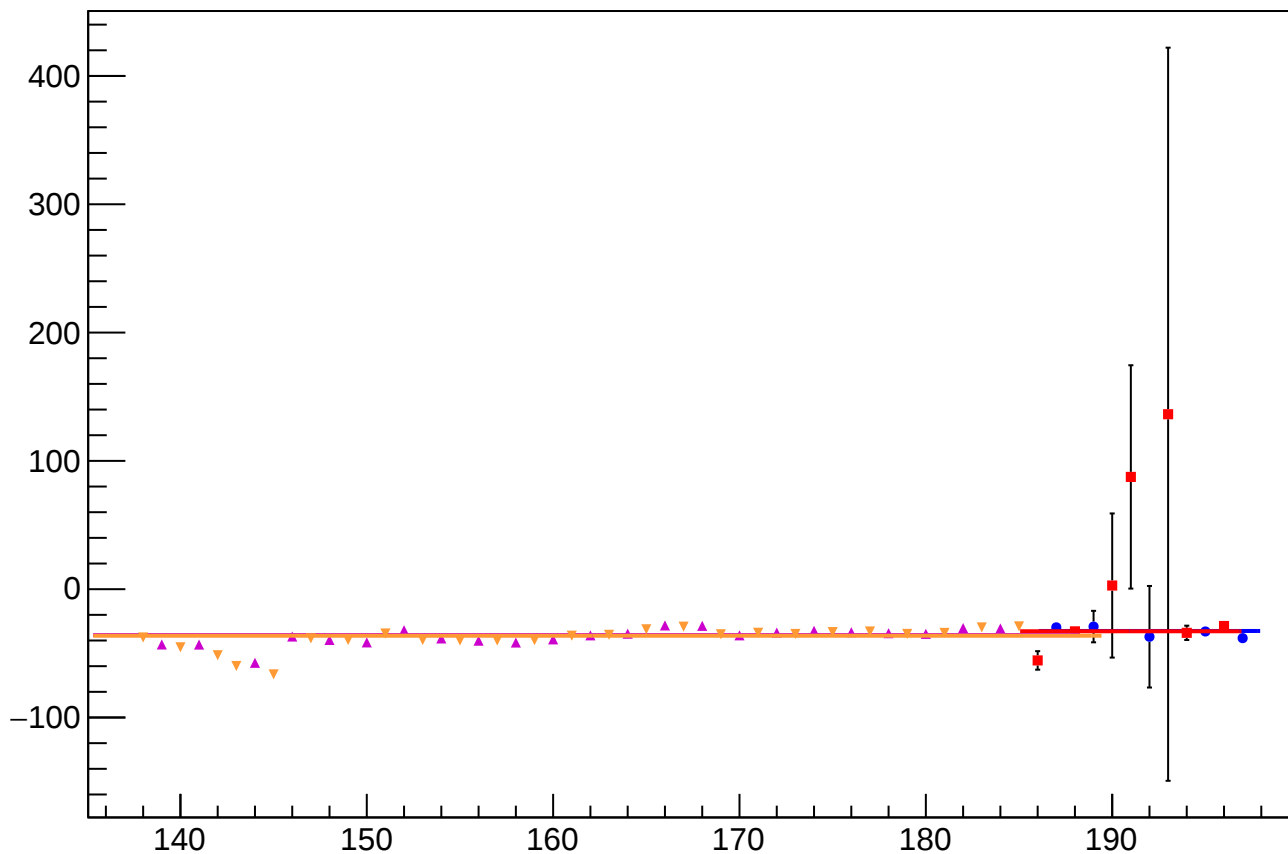
Right: -0.006+/-0.001 χ^2/NDF : 258.3/44

In: -0.008+/-0.001 χ^2/NDF : 85.2/43

Out: -0.008+/-0.001 χ^2/NDF : 247.5/48

All: -0.008+/-0.000 χ^2/NDF : 333.0/92

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.560 ± 1.333 χ^2/NDF : 6.6/4

Left Out: -36.243 ± 0.191 χ^2/NDF : 1193.9/24

Right Out: -32.789 ± 1.059 χ^2/NDF : 14.7/6

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -36.011 ± 0.135 χ^2/NDF : 2050.9/47

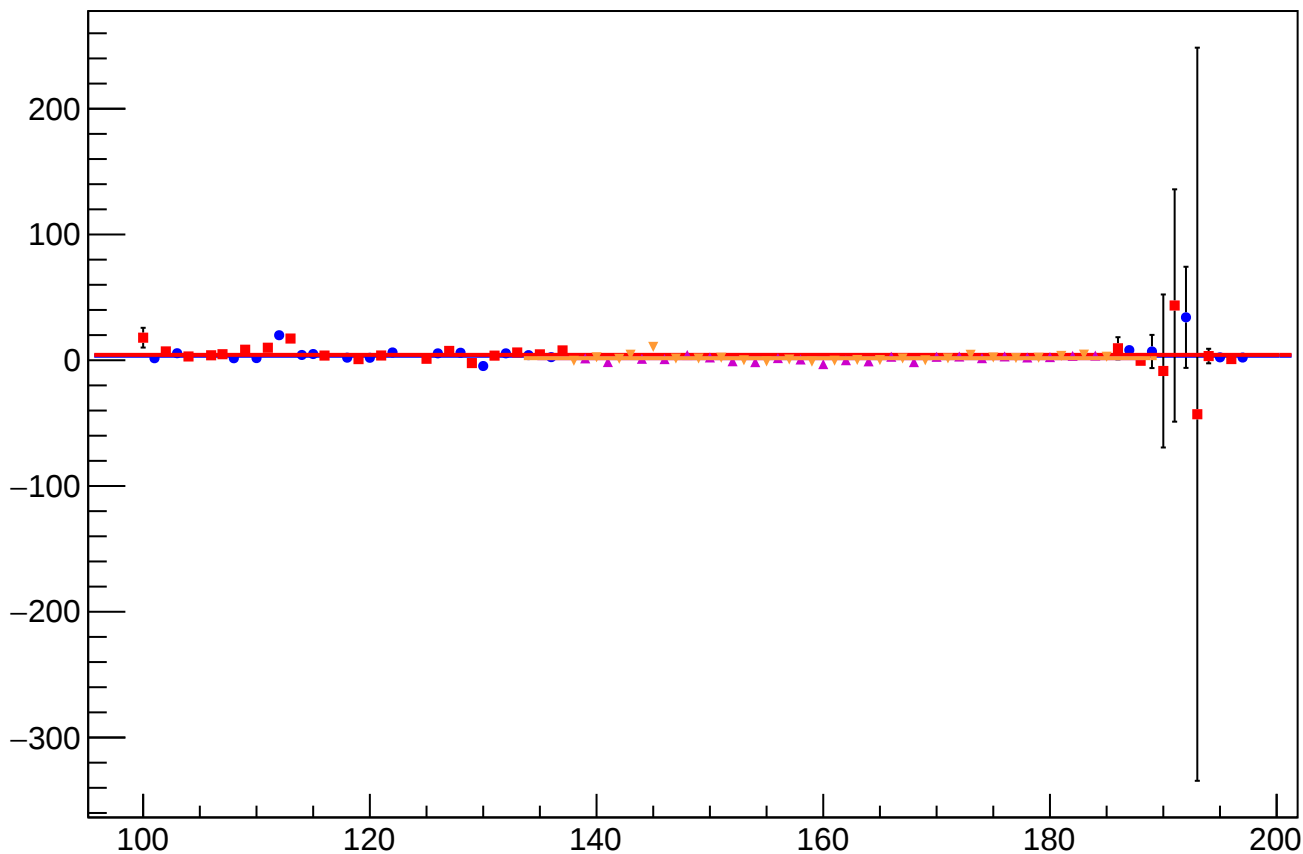
Right: -32.700 ± 0.829 χ^2/NDF : 21.3/11

In: -35.714 ± 0.189 χ^2/NDF : 866.5/27

Out: -36.134 ± 0.188 χ^2/NDF : 1218.9/31

All: -35.925 ± 0.134 χ^2/NDF : 2087.8/59

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.564 $\pm$ 0.219 χ^2 /NDF: 443.2/20

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

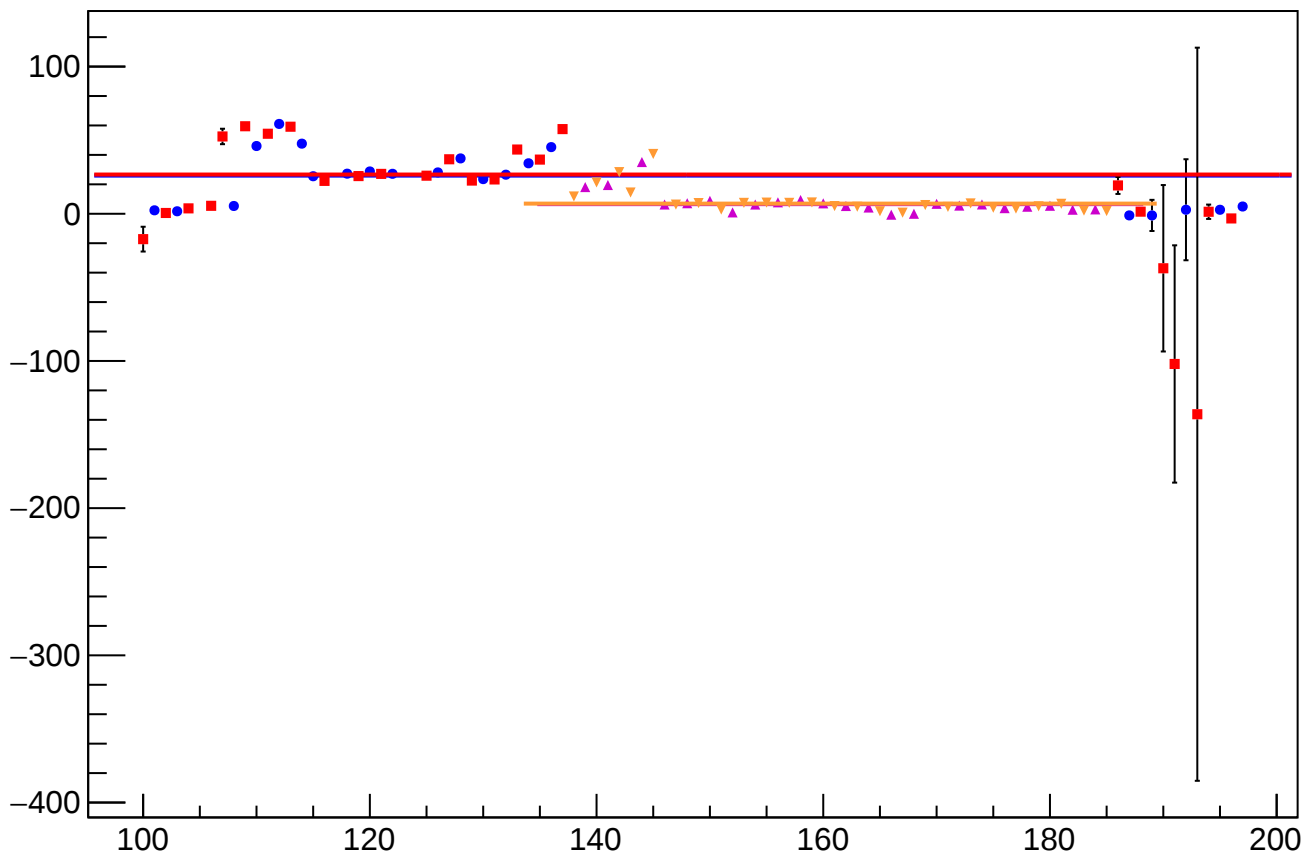
Right: 3.922 $\pm$ 0.156 χ^2 /NDF: 809.8/45

In: 2.252 $\pm$ 0.123 χ^2 /NDF:659.0/43

Out: 2.455 $\pm$ 0.123 χ^2 /NDF:627.7/49

All: 2.354 $\pm$ 0.087 χ^2 /NDF: 1288.0/93

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.934+/-0.393 χ^2/NDF : 2063.8/20

Left Out: 6.900+/-0.191 χ^2/NDF :1302.8/24

Right Out: 26.656+/-0.380 χ^2/NDF : 2755.5/24

Left In: 6.537+/-0.190 χ^2/NDF :1025.1/22

Left: 6.718+/-0.135 χ^2/NDF : 2329.7/47

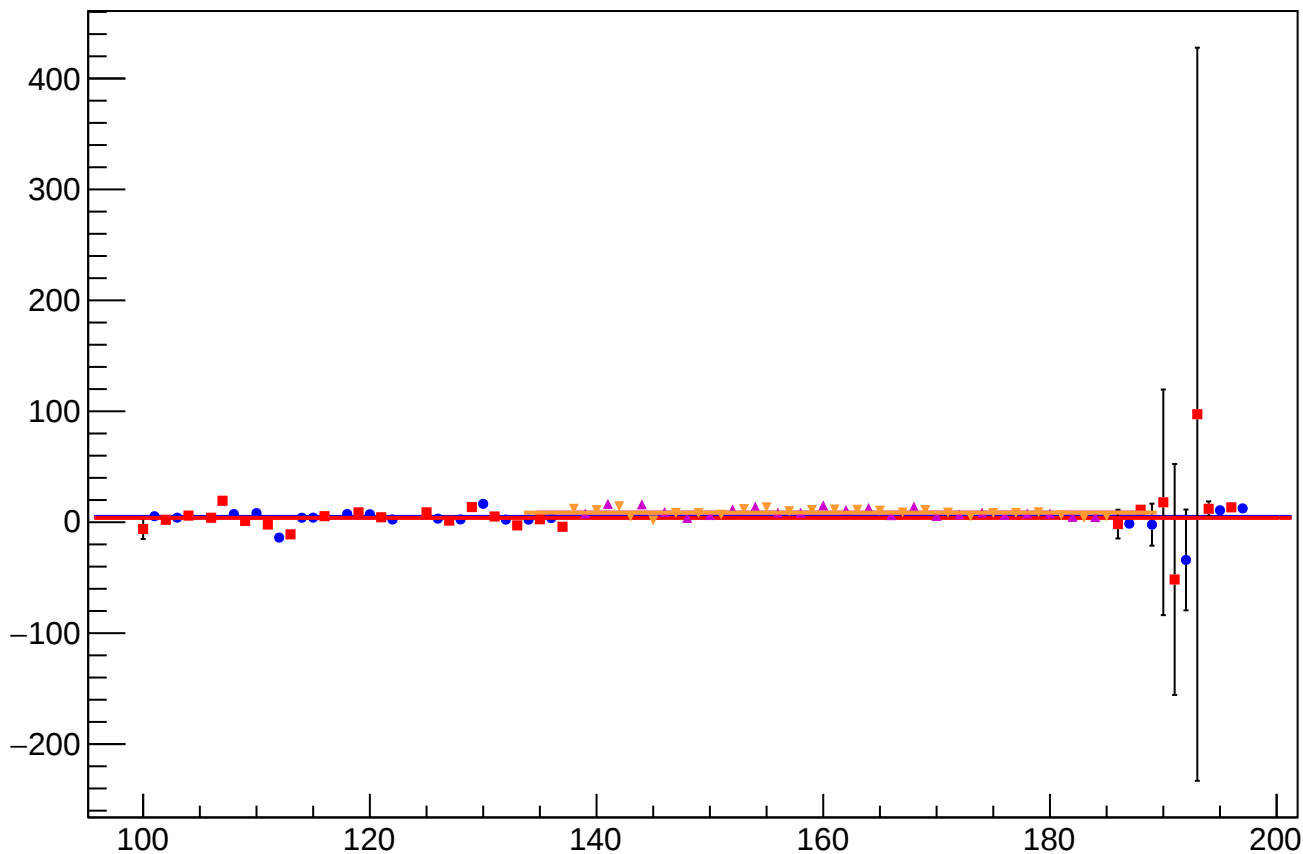
Right: 26.307+/-0.273 χ^2/NDF : 4821.1/45

In: 10.224+/-0.171 χ^2/NDF :5062.5/43

Out: 10.879+/-0.171 χ^2/NDF :6214.2/49

All: 10.553+/-0.121 χ^2/NDF : 11284.0/93

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.794+/-0.253 χ^2/NDF : 556.5/20

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

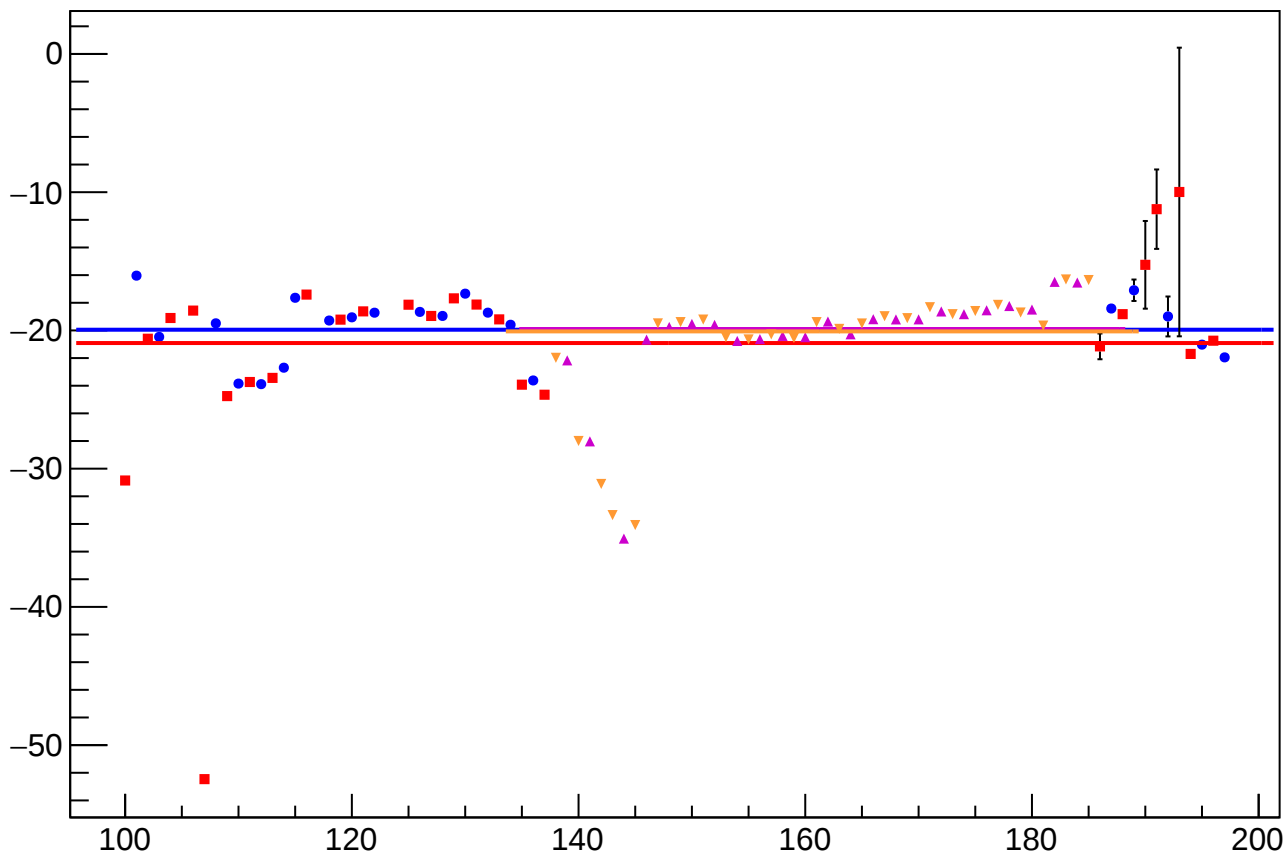
Right: 4.358+/-0.180 χ^2/NDF : 1142.9/45

In: 7.460+/-0.141 χ^2/NDF : 1154.8/43

Out: 7.241+/-0.141 χ^2/NDF : 1064.6/49

All: 7.350+/-0.100 χ^2/NDF : 2220.6/93

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.949 $\pm$ 0.015 χ^2 /NDF: 26443.2/20

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

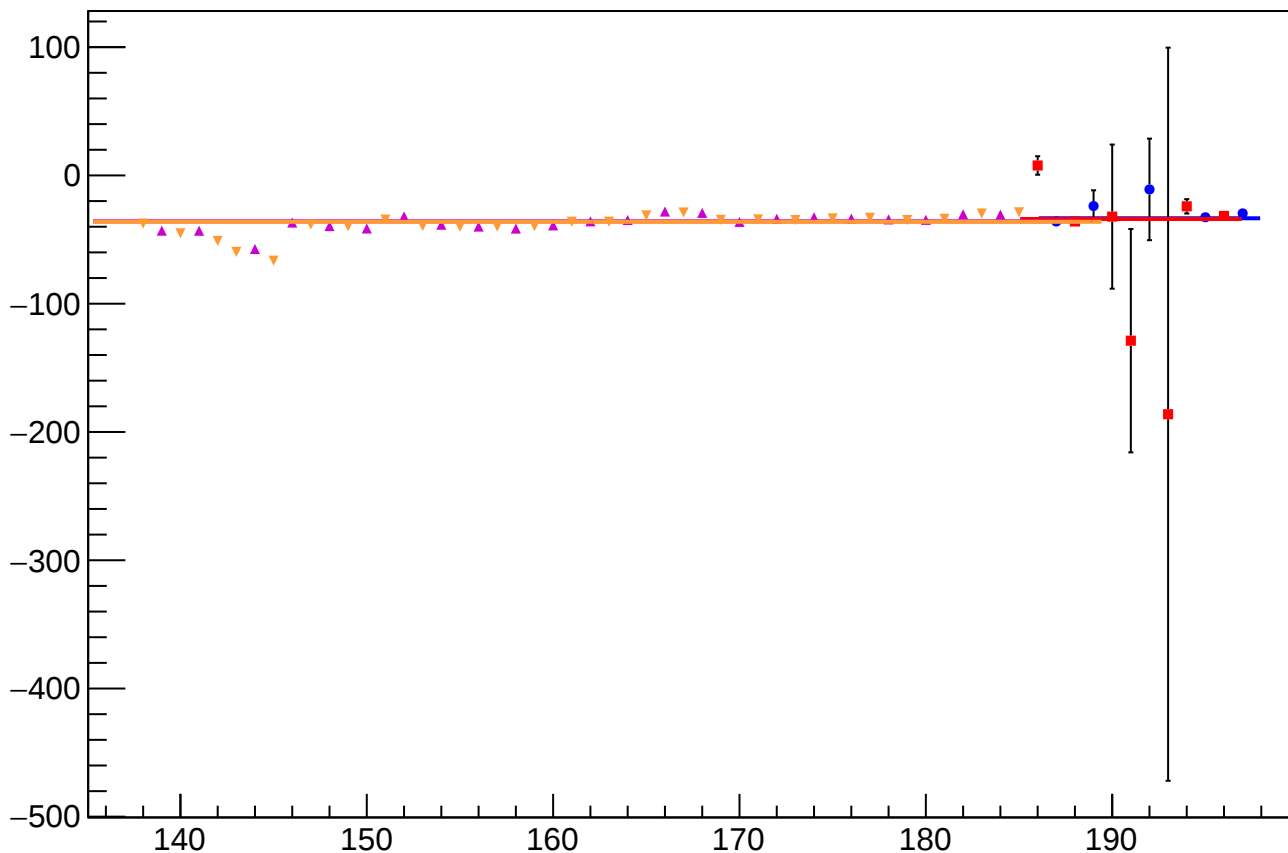
Right: -20.427 $\pm$ 0.011 χ^2 /NDF: 122633.9/45

In: -19.908 $\pm$ 0.007 χ^2 /NDF:170643.8/43

Out: -20.243 $\pm$ 0.007 χ^2 /NDF:281970.5/49

All: -20.075 $\pm$ 0.005 χ^2 /NDF: 453754.2/93

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.414 ± 1.338 $\chi^2/\text{NDF}: 4.8/4$

Left Out: -36.152 ± 0.191 $\chi^2/\text{NDF}: 1199.2/24$

Right Out: -33.959 ± 1.062 $\chi^2/\text{NDF}: 41.4/6$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.959 ± 0.135 $\chi^2/\text{NDF}: 2043.8/47$

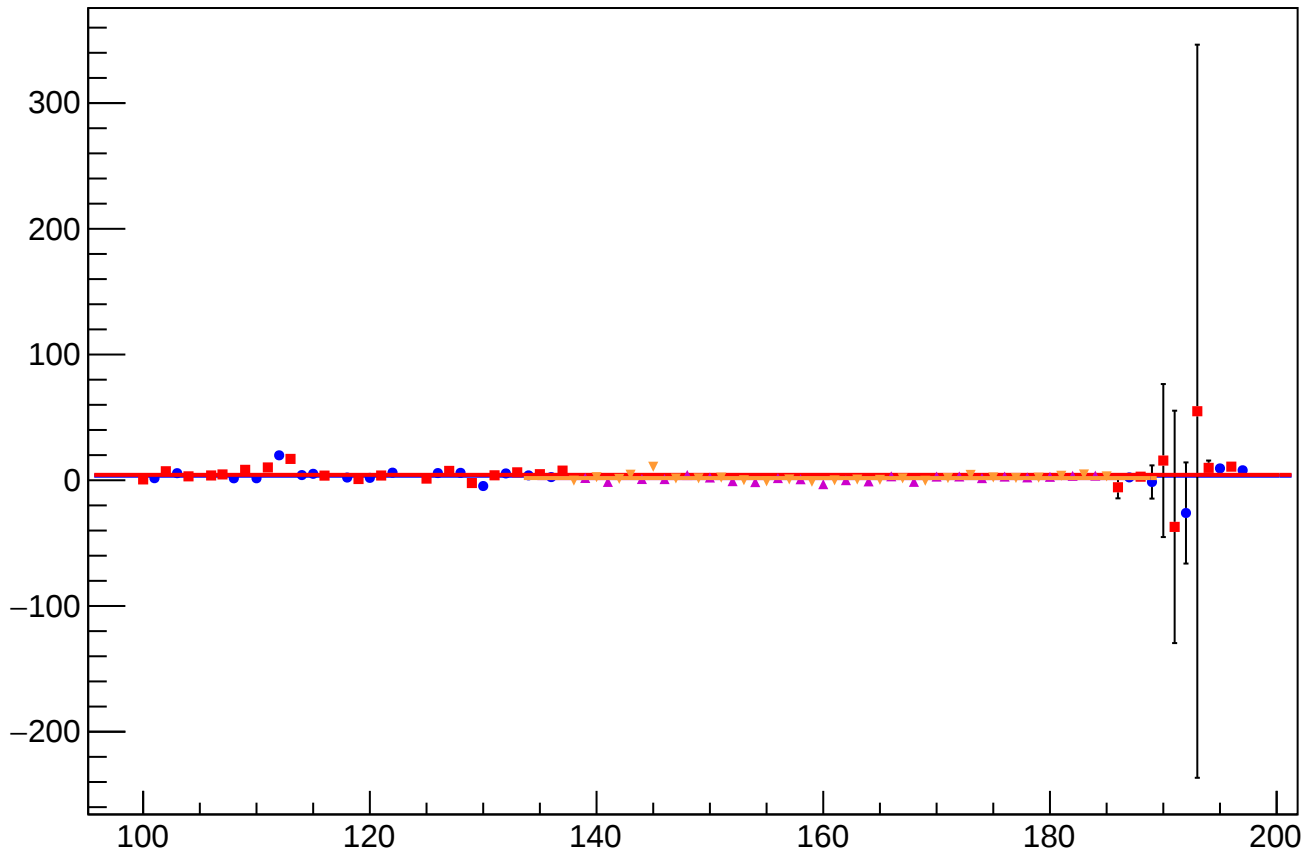
Right: -33.748 ± 0.832 $\chi^2/\text{NDF}: 46.3/11$

In: -35.719 ± 0.189 $\chi^2/\text{NDF}: 850.4/27$

Out: -36.083 ± 0.188 $\chi^2/\text{NDF}: 1244.8/31$

All: -35.902 ± 0.133 $\chi^2/\text{NDF}: 2097.0/59$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 $\pm$ 0.219 χ^2 /NDF: 443.6/20

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

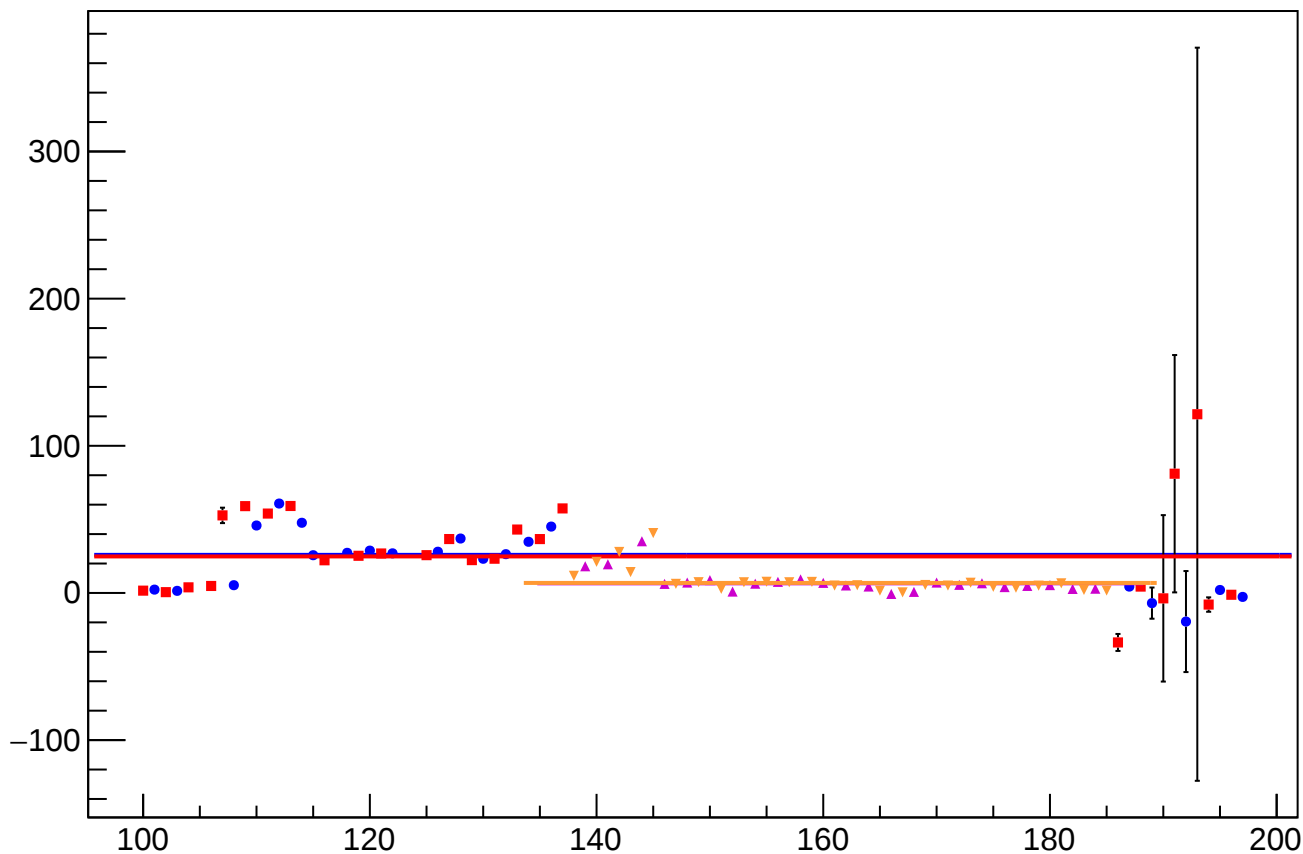
Right: 3.960 $\pm$ 0.155 χ^2 /NDF: 808.1/45

In: 2.308 $\pm$ 0.123 χ^2 /NDF: 657.8/43

Out: 2.542 $\pm$ 0.122 χ^2 /NDF: 624.8/49

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1284.4/93

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.885 $\pm$ 0.393 χ^2 /NDF: 2025.6/20

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

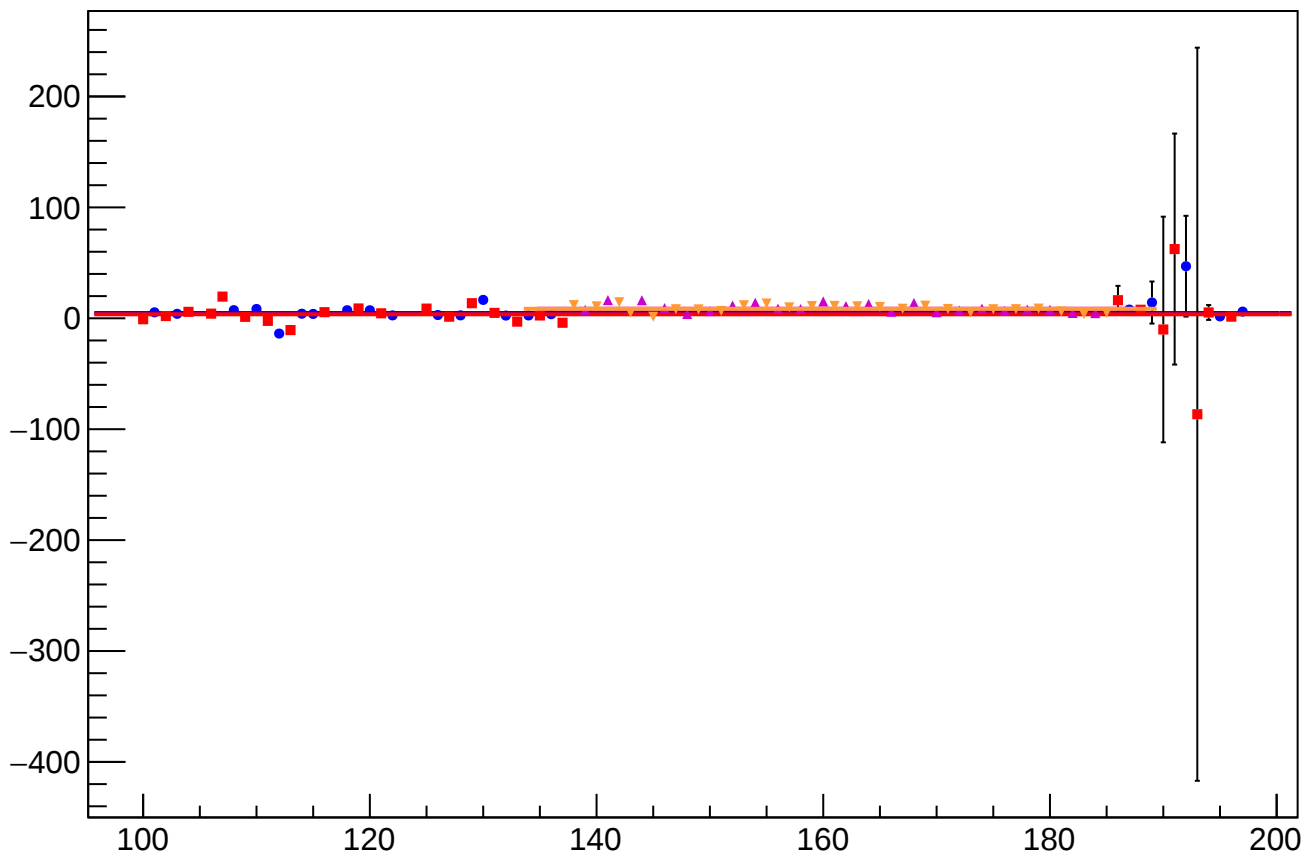
Right: 25.315 $\pm$ 0.268 χ^2 /NDF: 5028.4/45

In: 10.209 $\pm$ 0.171 χ^2 /NDF:5009.3/43

Out: 10.673 $\pm$ 0.169 χ^2 /NDF:6212.0/49

All: 10.444 $\pm$ 0.120 χ^2 /NDF: 11225.0/93

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.755 $\pm$ 0.253 χ^2 /NDF: 545.4/20

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

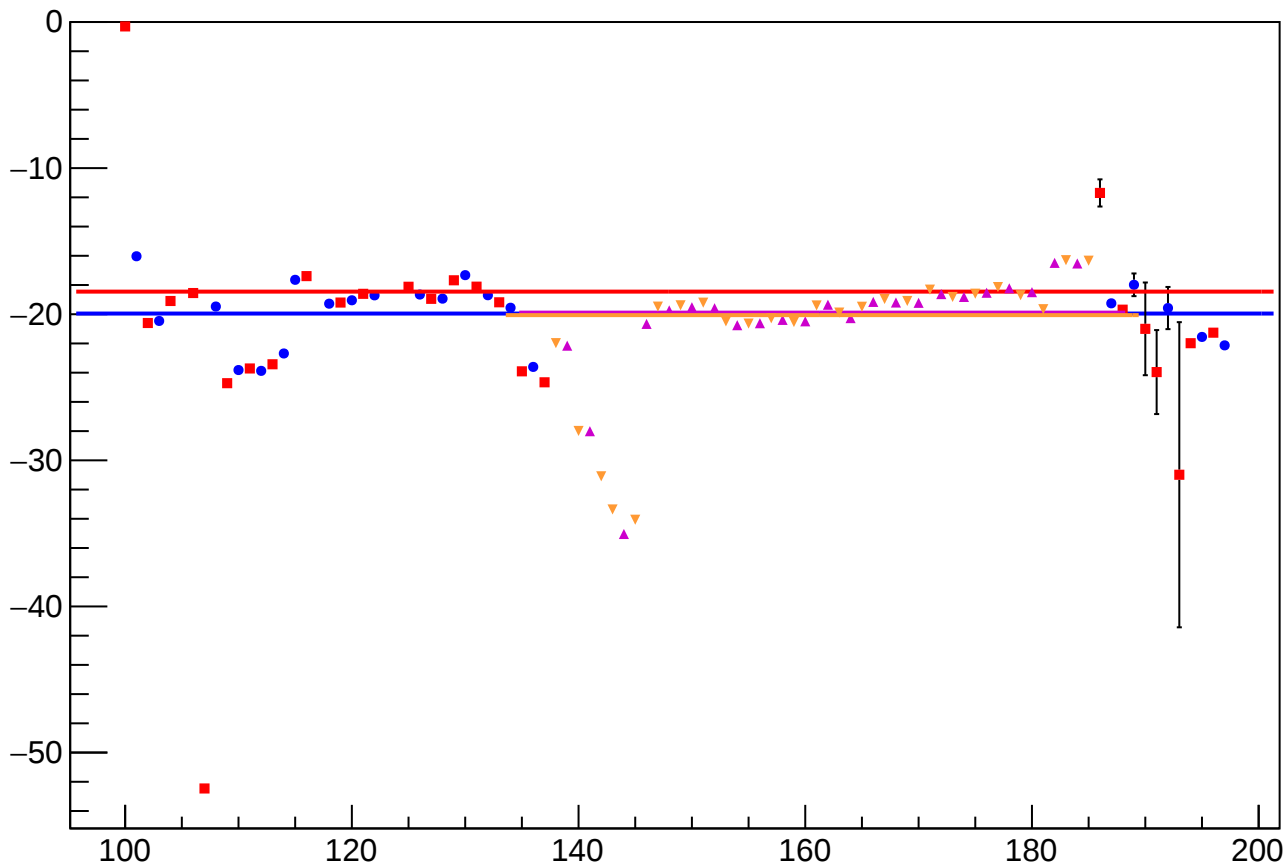
Right: 4.180 $\pm$ 0.179 χ^2 /NDF: 1130.1/45

In: 7.391 $\pm$ 0.141 χ^2 /NDF: 1145.4/43

Out: 7.040 $\pm$ 0.140 χ^2 /NDF: 1089.0/49

All: 7.214 $\pm$ 0.099 χ^2 /NDF: 2237.6/93

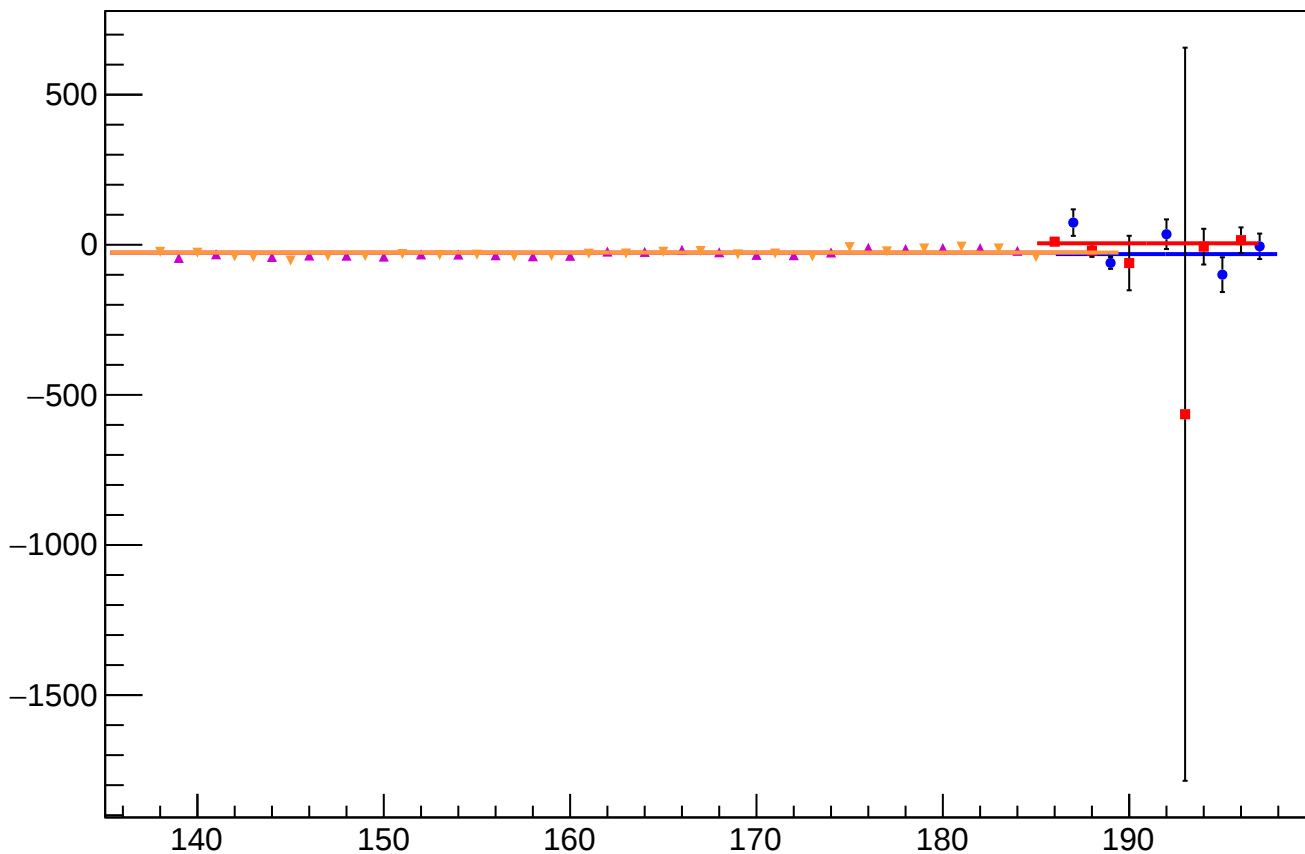
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.953 ± 0.015 $\chi^2/\text{NDF}: 26563.3/20$
 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: -19.162 ± 0.011 $\chi^2/\text{NDF}: 333640.7/45$
 In: -19.903 ± 0.007 $\chi^2/\text{NDF}: 170632.0/43$
 Out: -19.697 ± 0.007 $\chi^2/\text{NDF}: 497090.5/49$
 All: -19.799 ± 0.005 $\chi^2/\text{NDF}: 668164.5/93$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.047+/-15.198 χ^2/NDF : 11.4/4

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

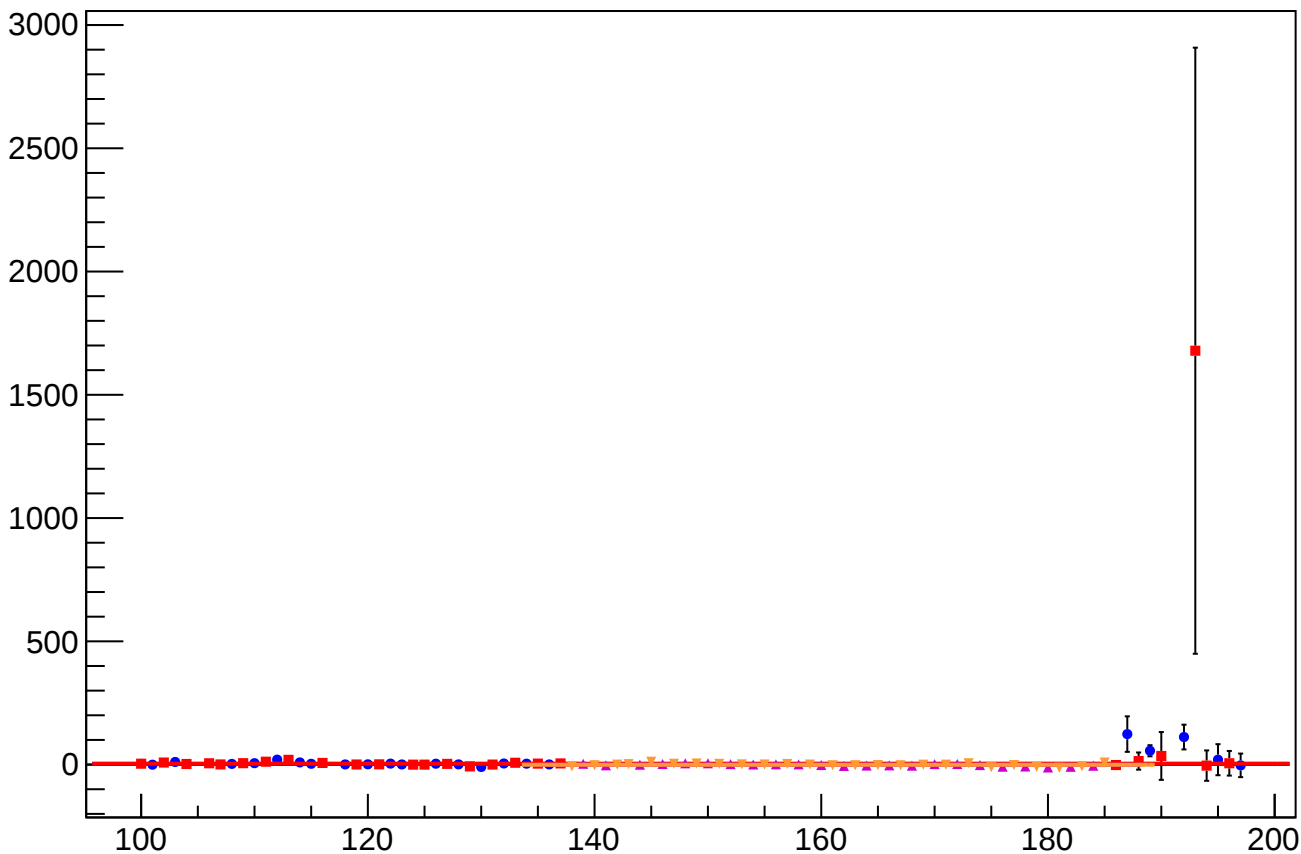
Right: -3.380+/-7.295 χ^2/NDF : 18.3/10

In: -26.053+/-0.195 χ^2/NDF : 3291.0/27

Out: -25.868+/-0.192 χ^2/NDF : 4174.2/30

All: -25.959+/-0.137 χ^2/NDF : 7465.7/58

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.472 $\pm$ 0.315 χ^2 /NDF: 307.7/21

Left Out: -0.654 $\pm$ 0.146 χ^2 /NDF:1320.8/24

Right Out: 3.710 $\pm$ 0.327 χ^2 /NDF: 271.4/24

Left In: -0.863 $\pm$ 0.150 χ^2 /NDF:1066.5/22

Left: -0.756 $\pm$ 0.105 χ^2 /NDF: 2388.3/47

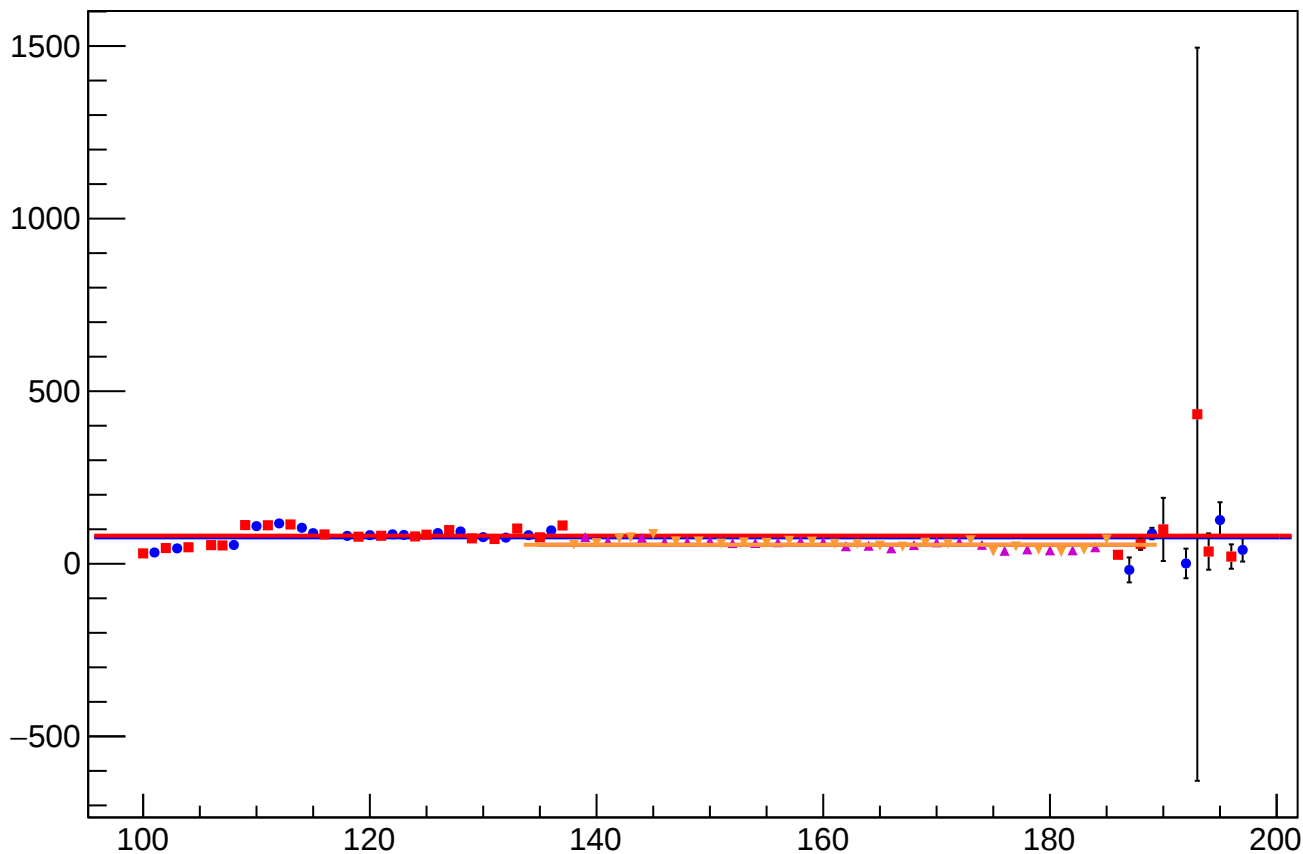
Right: 3.068 $\pm$ 0.227 χ^2 /NDF: 586.5/46

In: -0.243 $\pm$ 0.136 χ^2 /NDF:1465.6/44

Out: 0.074 $\pm$ 0.133 χ^2 /NDF:1741.0/49

All: -0.082 $\pm$ 0.095 χ^2 /NDF: 3209.4/94

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.526 $\pm$ 0.576 χ^2 /NDF: 2265.2/21

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

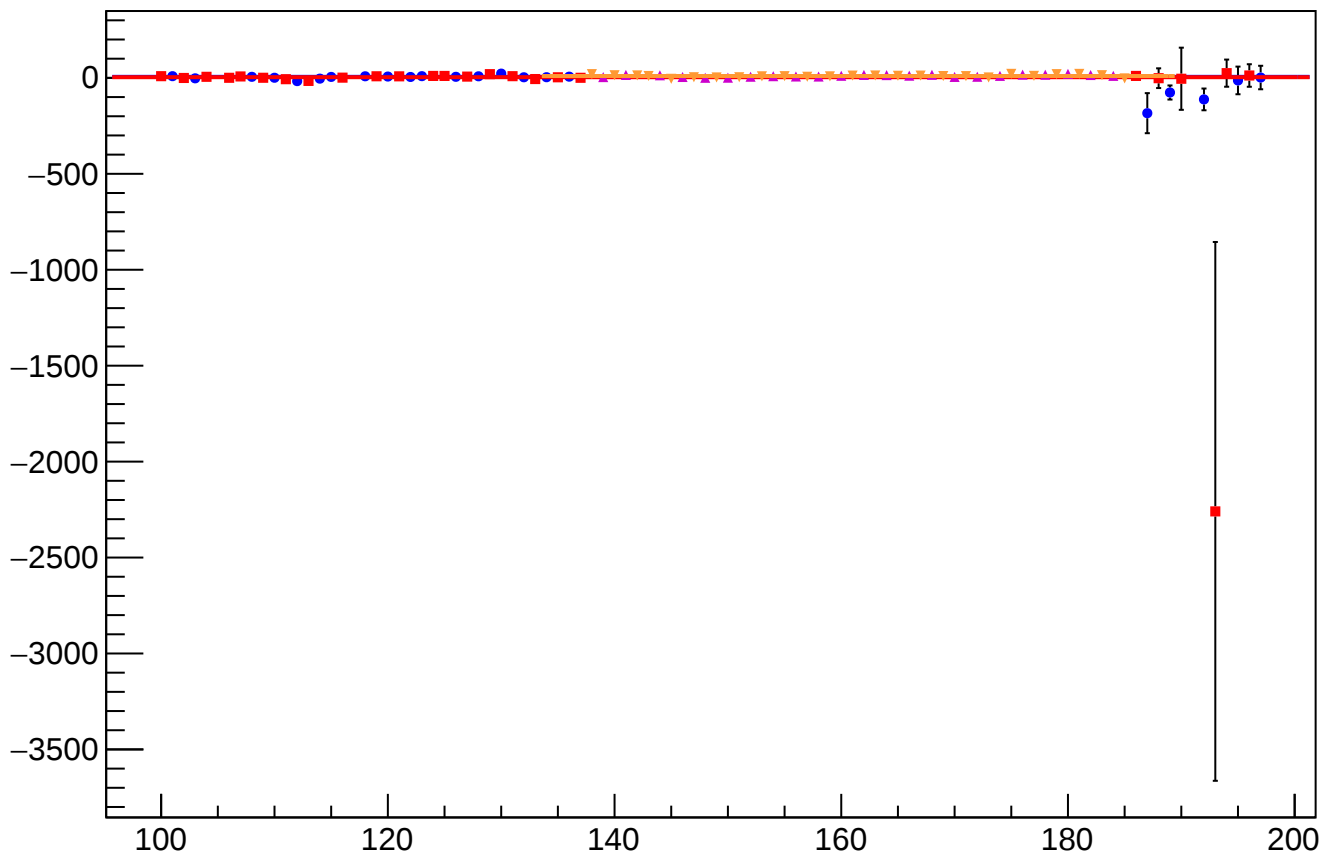
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3931.9/46

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7213.6/44

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8017.6/49

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15233.3/94

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.412 $\pm$ 0.361 χ^2 /NDF: 398.3/21

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.586 $\pm$ 0.375 χ^2 /NDF: 424.5/24

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

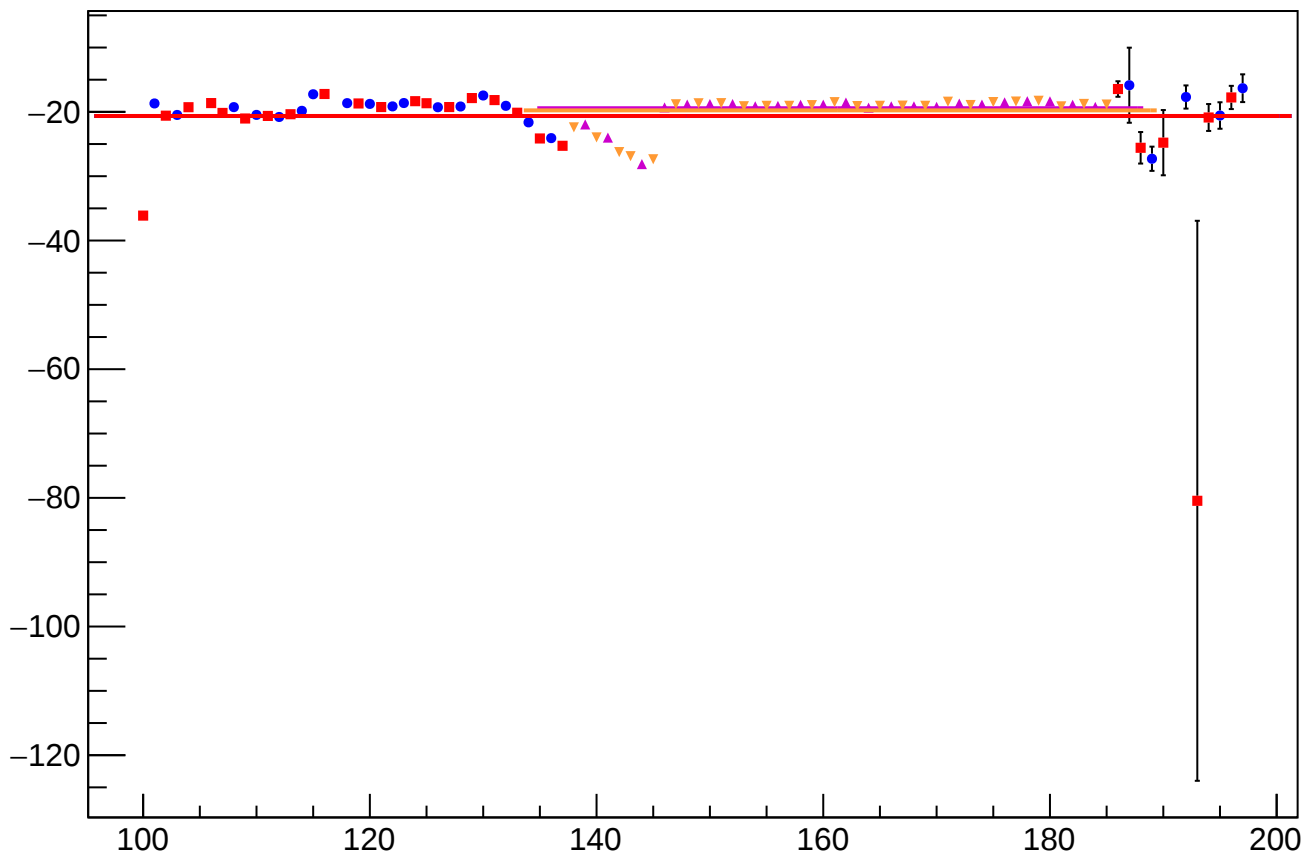
Right: 4.535 $\pm$ 0.260 χ^2 /NDF: 835.0/46

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1677.7/44

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2098.5/49

All: 8.852 $\pm$ 0.109 χ^2 /NDF: 3777.8/94

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12444.0/21

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

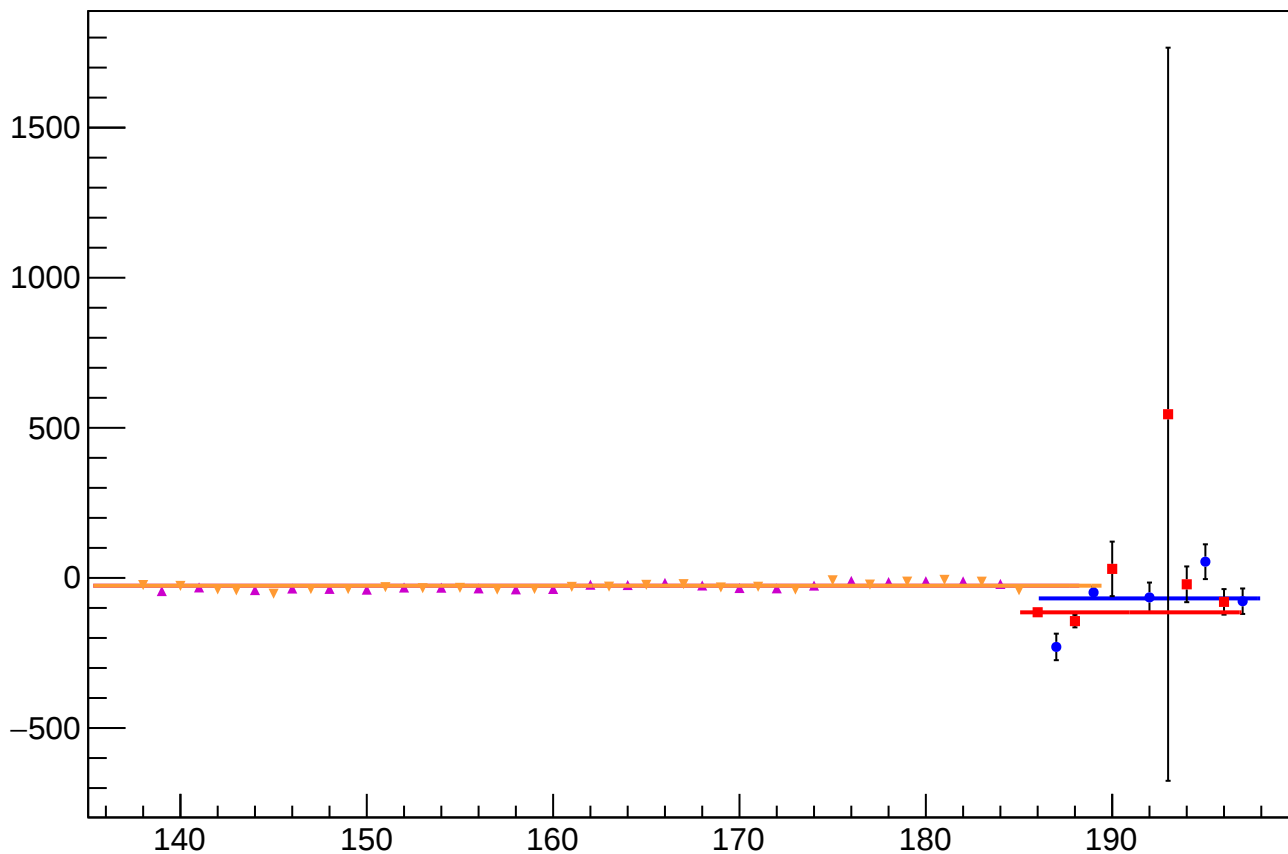
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26251.2/46

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68952.3/44

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107147.7/49

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176828.7/94

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -68.226 ± 15.210 $\chi^2/\text{NDF}: 18.9/4$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -114.653 ± 8.321 $\chi^2/\text{NDF}: 7.9/5$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

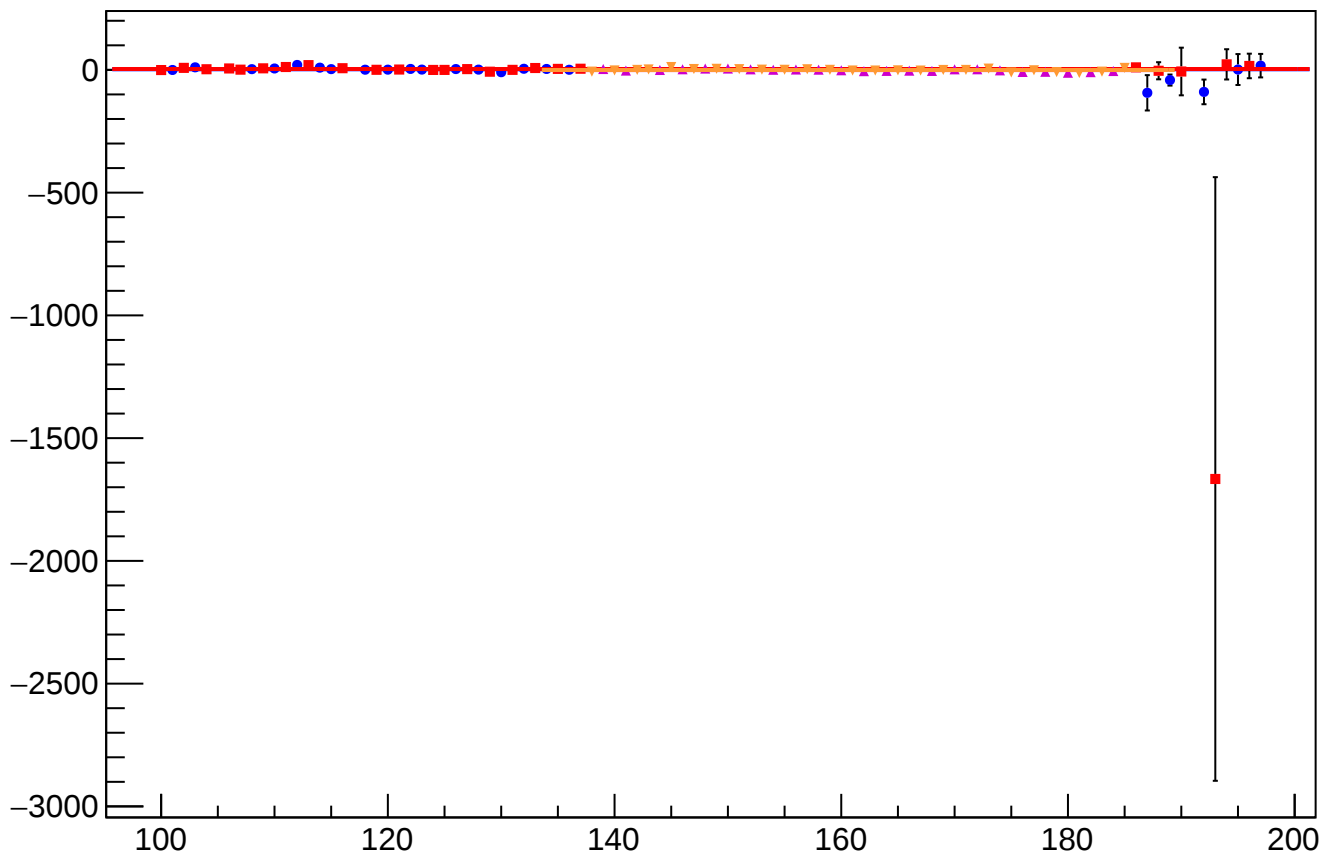
Right: -103.959 ± 7.300 $\chi^2/\text{NDF}: 34.0/10$

In: -26.053 ± 0.195 $\chi^2/\text{NDF}: 3273.3/27$

Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4249.2/30$

All: -25.999 ± 0.137 $\chi^2/\text{NDF}: 7522.6/58$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.442 ± 0.315 χ^2/NDF : 301.4/21

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

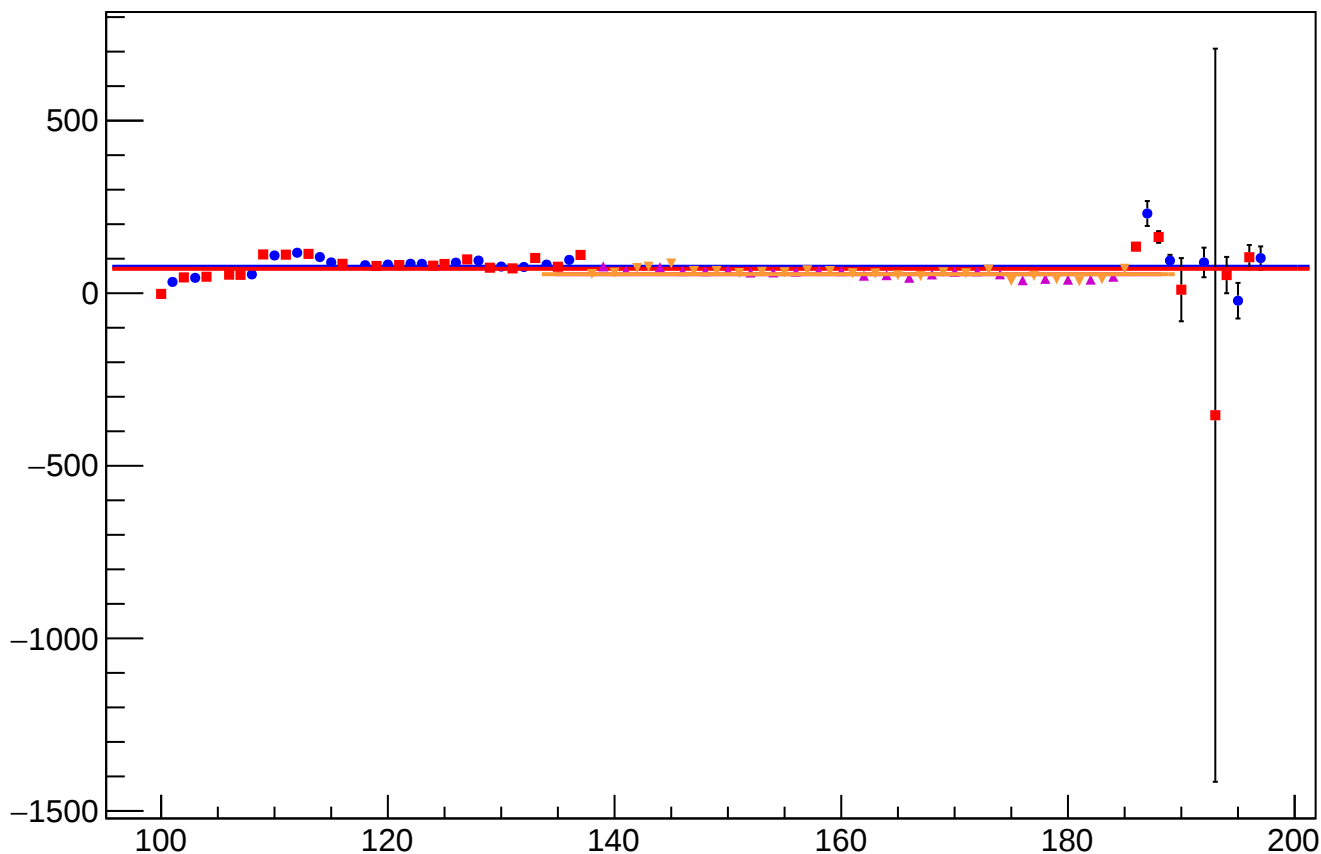
Right: 3.014 ± 0.224 χ^2/NDF : 590.5/46

In: -0.193 ± 0.136 χ^2/NDF : 1493.6/44

Out: 0.137 ± 0.133 χ^2/NDF : 1736.7/49

All: -0.025 ± 0.095 χ^2/NDF : 3233.3/94

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.733 $\pm$ 0.577 χ^2 /NDF: 2288.5/21

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

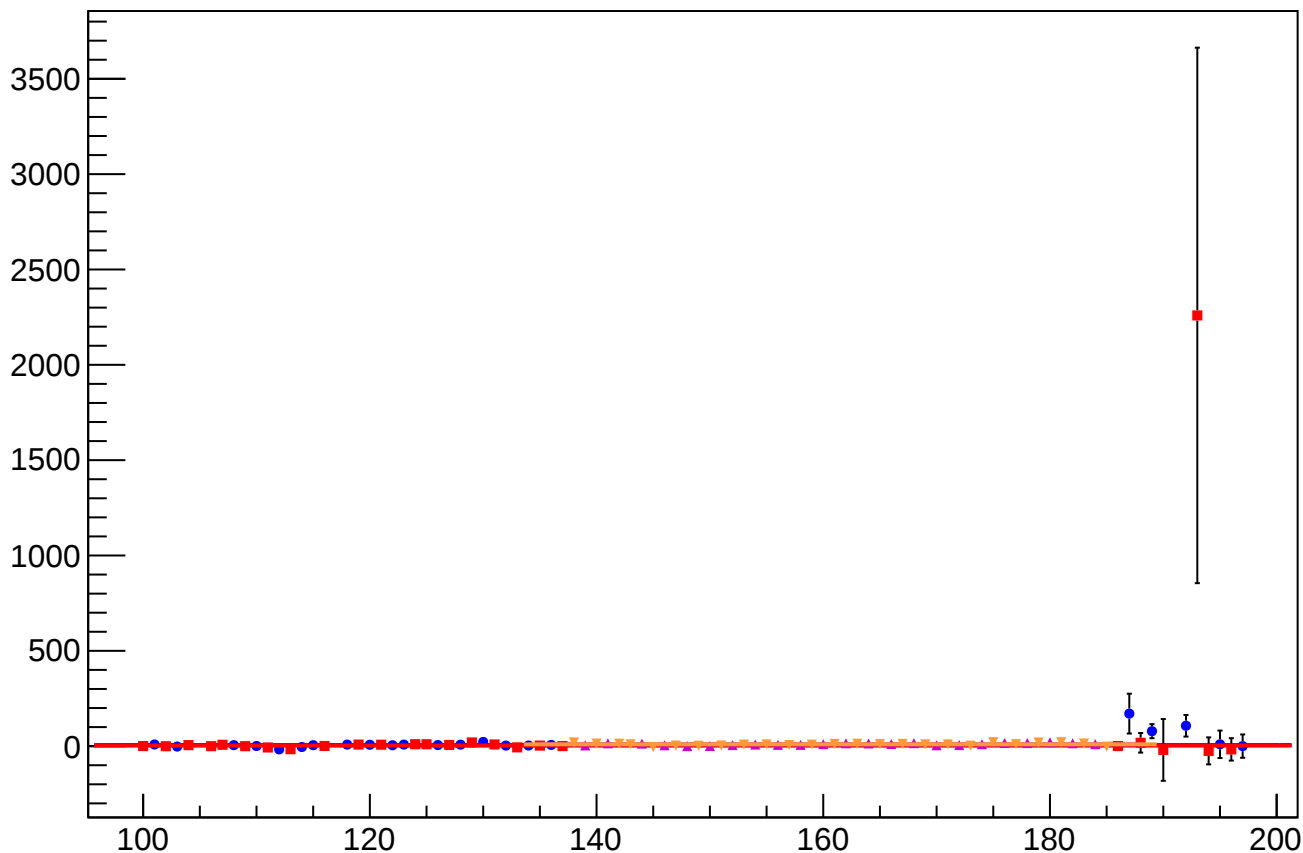
Right: 73.596 $\pm$ 0.397 χ^2 /NDF: 6835.6/46

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7218.6/44

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9775.5/49

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 16997.5/94

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441 $\pm$ 0.361 χ^2 /NDF: 393.9/21

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.278 $\pm$ 0.365 χ^2 /NDF: 428.0/24

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

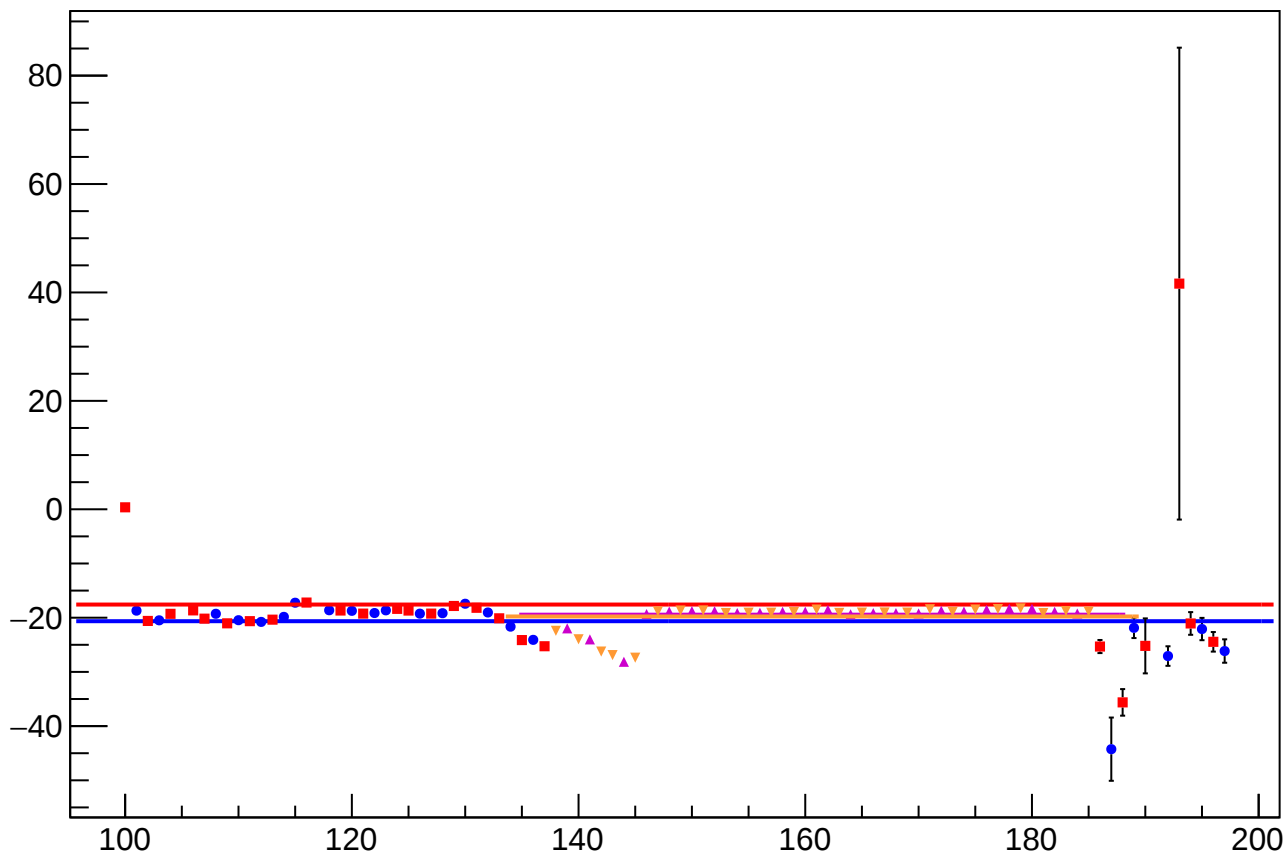
Right: 4.373 $\pm$ 0.257 χ^2 /NDF: 839.6/46

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1700.5/44

Out: 8.561 $\pm$ 0.153 χ^2 /NDF:2122.4/49

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3826.0/94

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12499.2/21$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178434.8/24$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

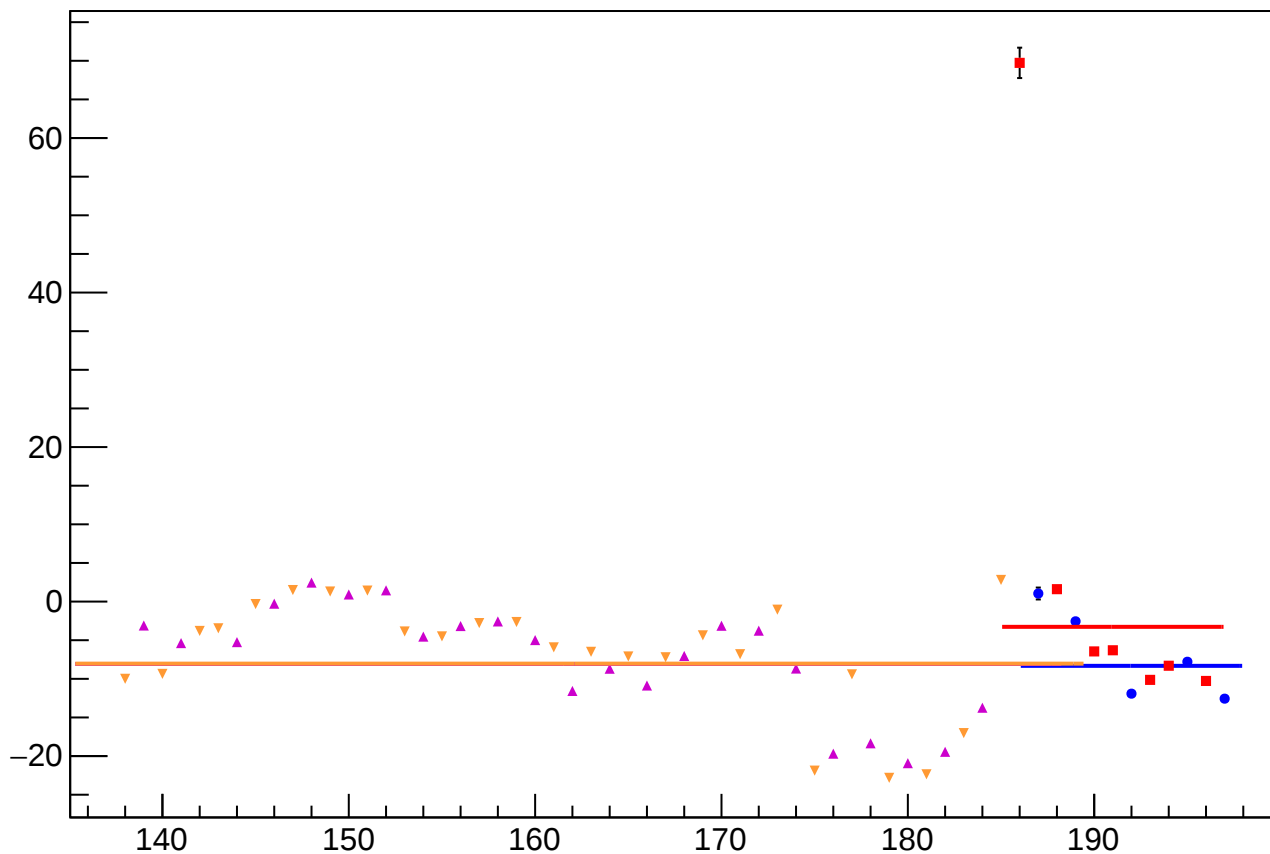
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204408.6/46$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68921.8/44$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282426.0/49$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351711.1/94$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



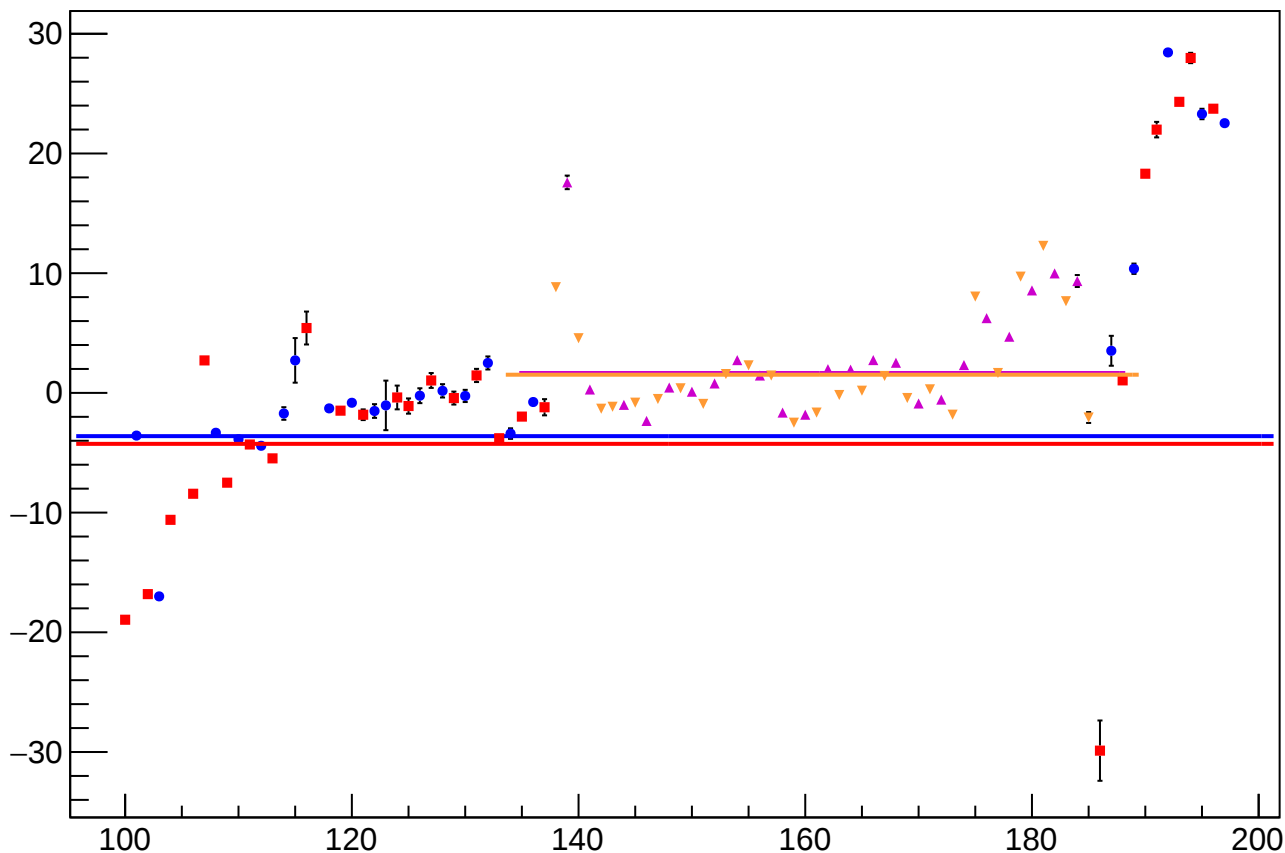
Right In: -8.318 ± 0.185 $\chi^2/\text{NDF}: 583.3/4$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -3.269 ± 0.129 $\chi^2/\text{NDF}: 3009.2/6$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -4.930 ± 0.106 $\chi^2/\text{NDF}: 4092.7/11$

In: -8.109 ± 0.067 $\chi^2/\text{NDF}: 11126.3/27$
 Out: -6.949 ± 0.062 $\chi^2/\text{NDF}: 16623.4/31$

All: -7.482 ± 0.045 $\chi^2/\text{NDF}: 27911.8/59$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.613 ± 0.053 $\chi^2/\text{NDF}: 26453.1/21$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -4.257 ± 0.055 $\chi^2/\text{NDF}: 35795.3/25$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

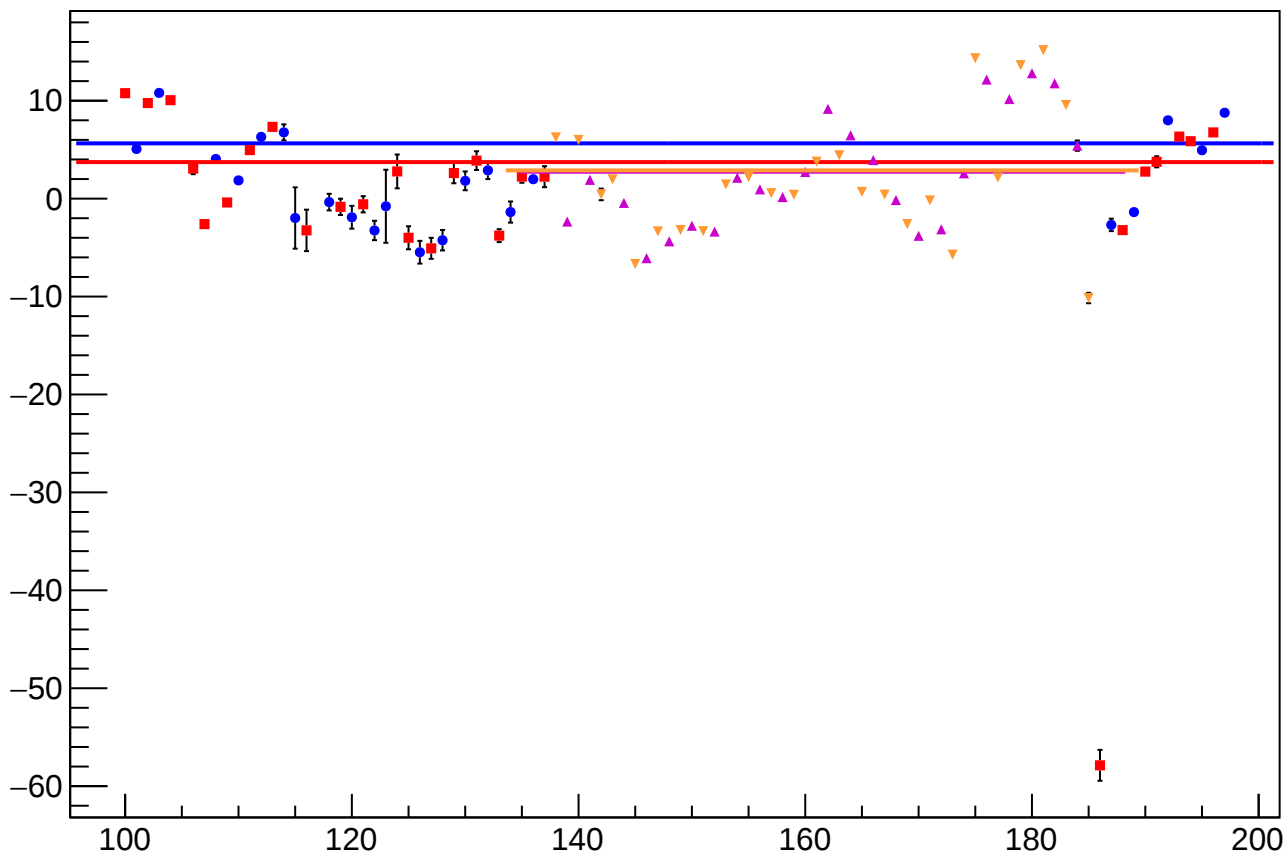
Right: -3.921 ± 0.038 $\chi^2/\text{NDF}: 62319.2/47$

In: -1.149 ± 0.039 $\chi^2/\text{NDF}: 35120.8/44$

Out: -1.319 ± 0.039 $\chi^2/\text{NDF}: 46187.4/50$

All: -1.233 ± 0.027 $\chi^2/\text{NDF}: 81317.9/95$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.646 ± 0.078 χ^2/NDF : 2146.9/21

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

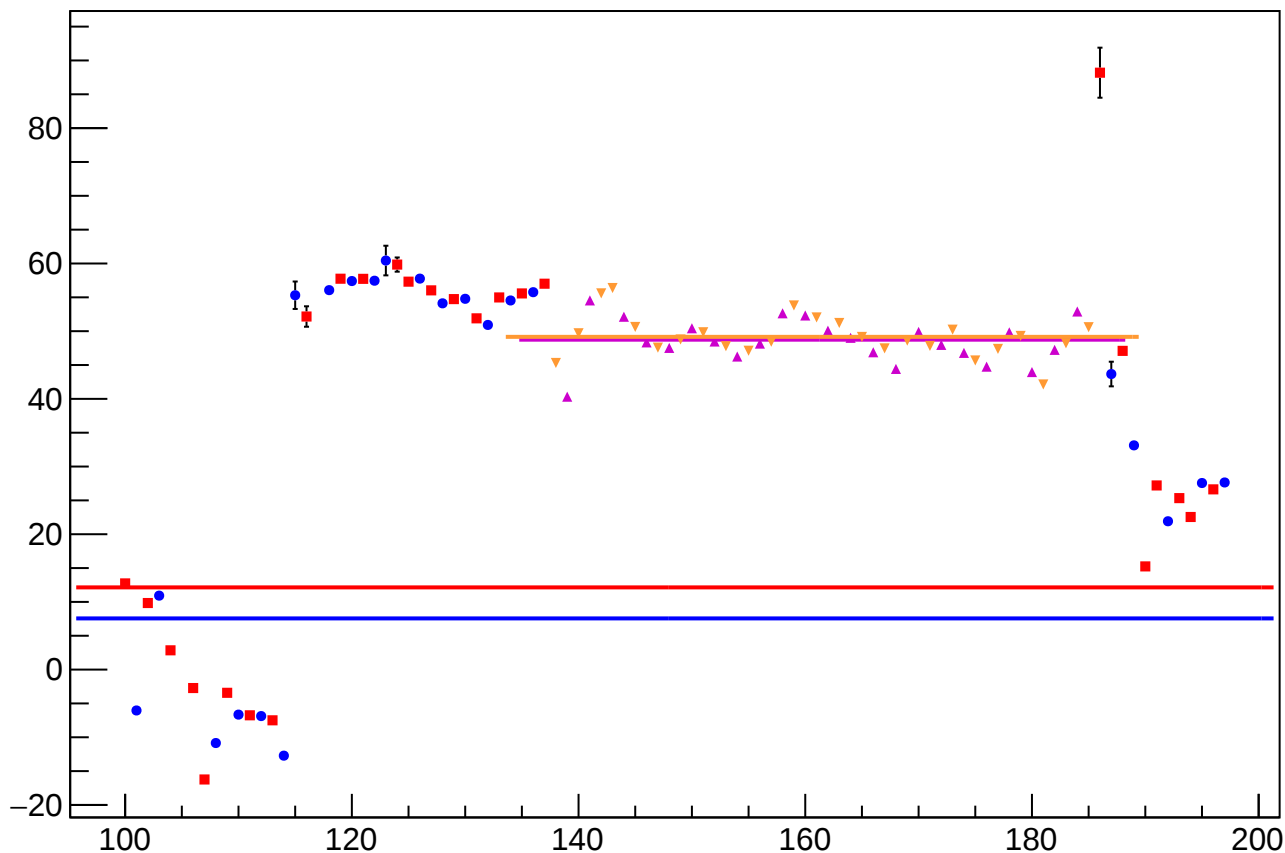
Right: 4.600 ± 0.053 χ^2/NDF : 9611.8/47

In: 4.064 ± 0.053 χ^2/NDF : 10078.9/44

Out: 3.302 ± 0.050 χ^2/NDF : 16103.4/50

All: 3.663 ± 0.036 χ^2/NDF : 26292.0/95

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.561 ± 0.063 χ^2/NDF : 127534.5/21

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

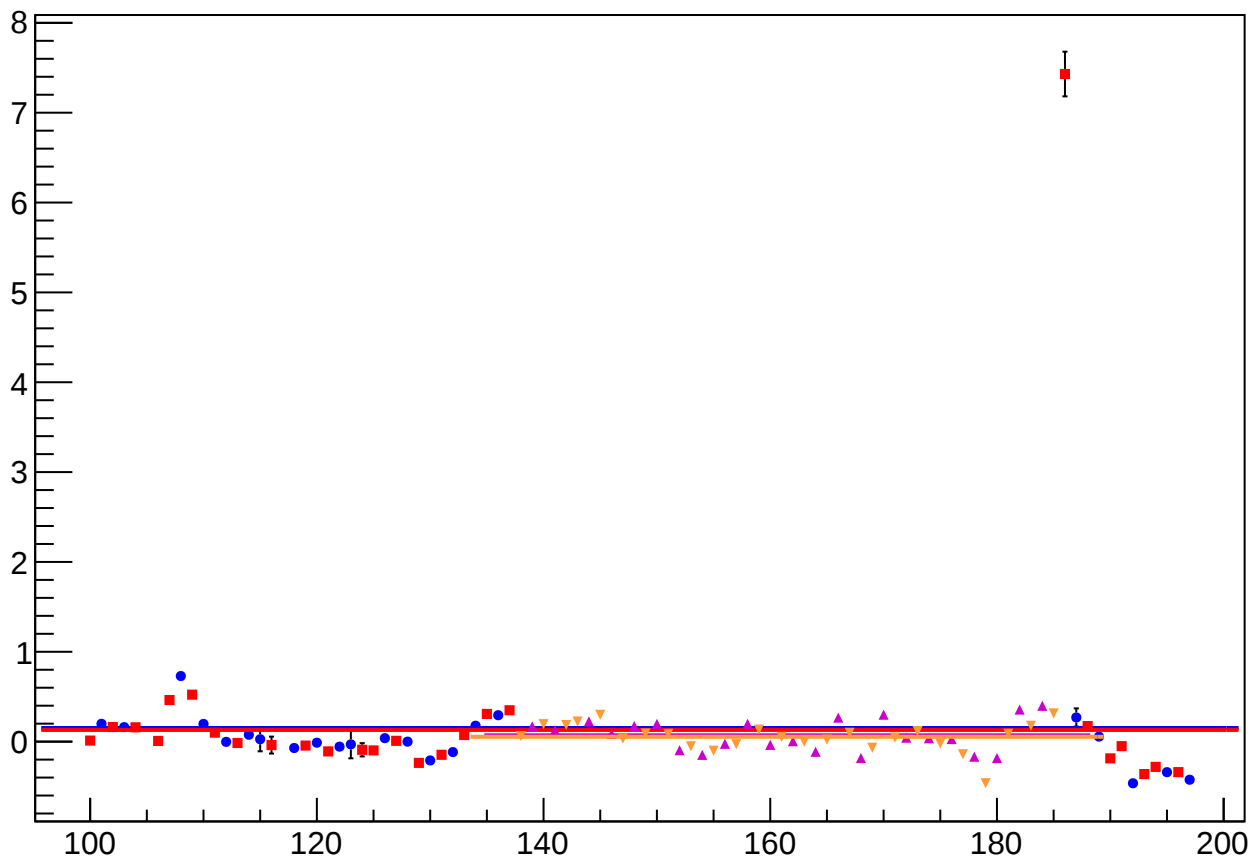
Right: 9.737 ± 0.045 χ^2/NDF : 263368.0/47

In: 27.813 ± 0.045 χ^2/NDF : 341621.2/44

Out: 31.887 ± 0.045 χ^2/NDF : 303330.4/50

All: 29.833 ± 0.032 χ^2/NDF : 649067.2/95

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.151+/-0.003 χ^2/NDF : 9089.1/21

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

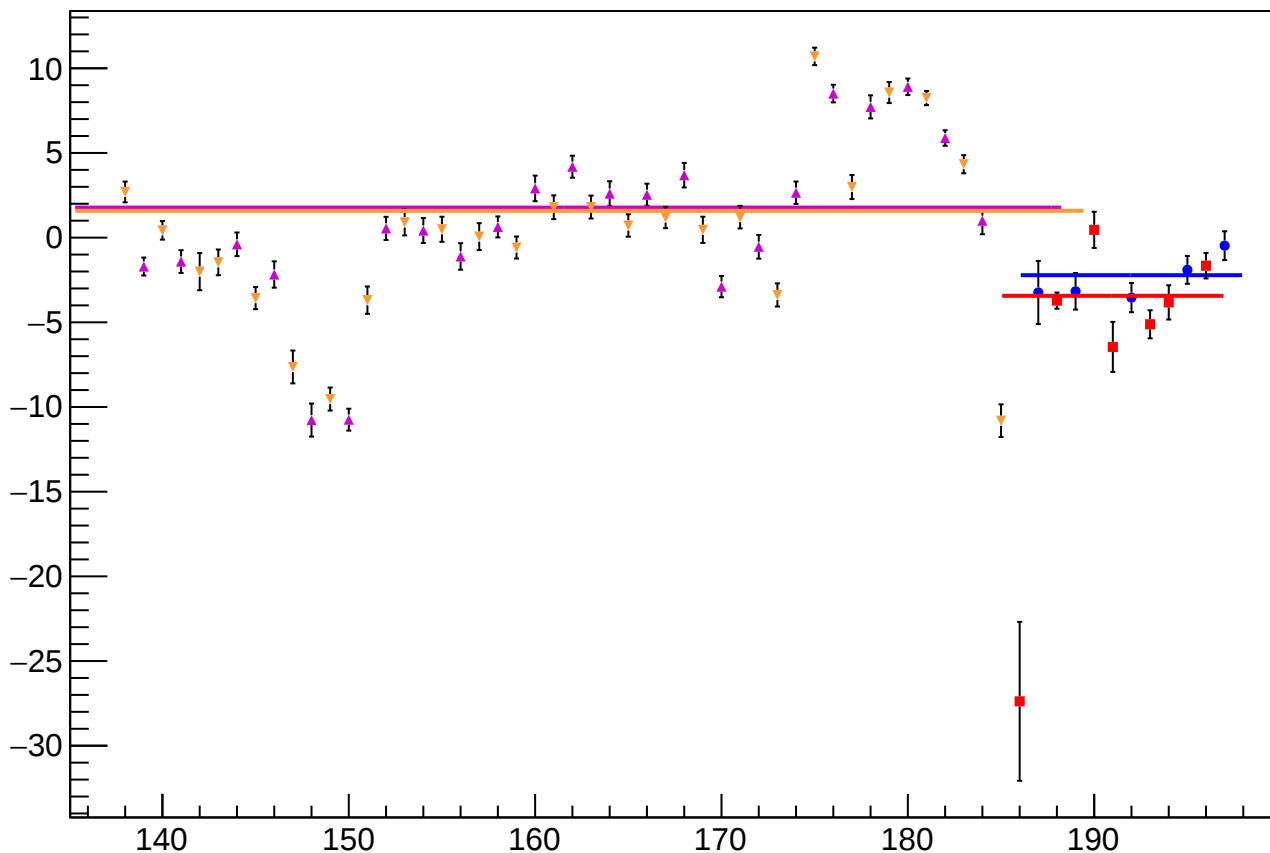
Right: 0.140+/-0.002 χ^2/NDF : 16580.2/47

In: 0.115+/-0.002 χ^2/NDF : 12761.5/44

Out: 0.097+/-0.002 χ^2/NDF : 10246.9/50

All: 0.106+/-0.001 χ^2/NDF : 23052.2/95

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.218 ± 0.432 χ^2/NDF : 7.8/4

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

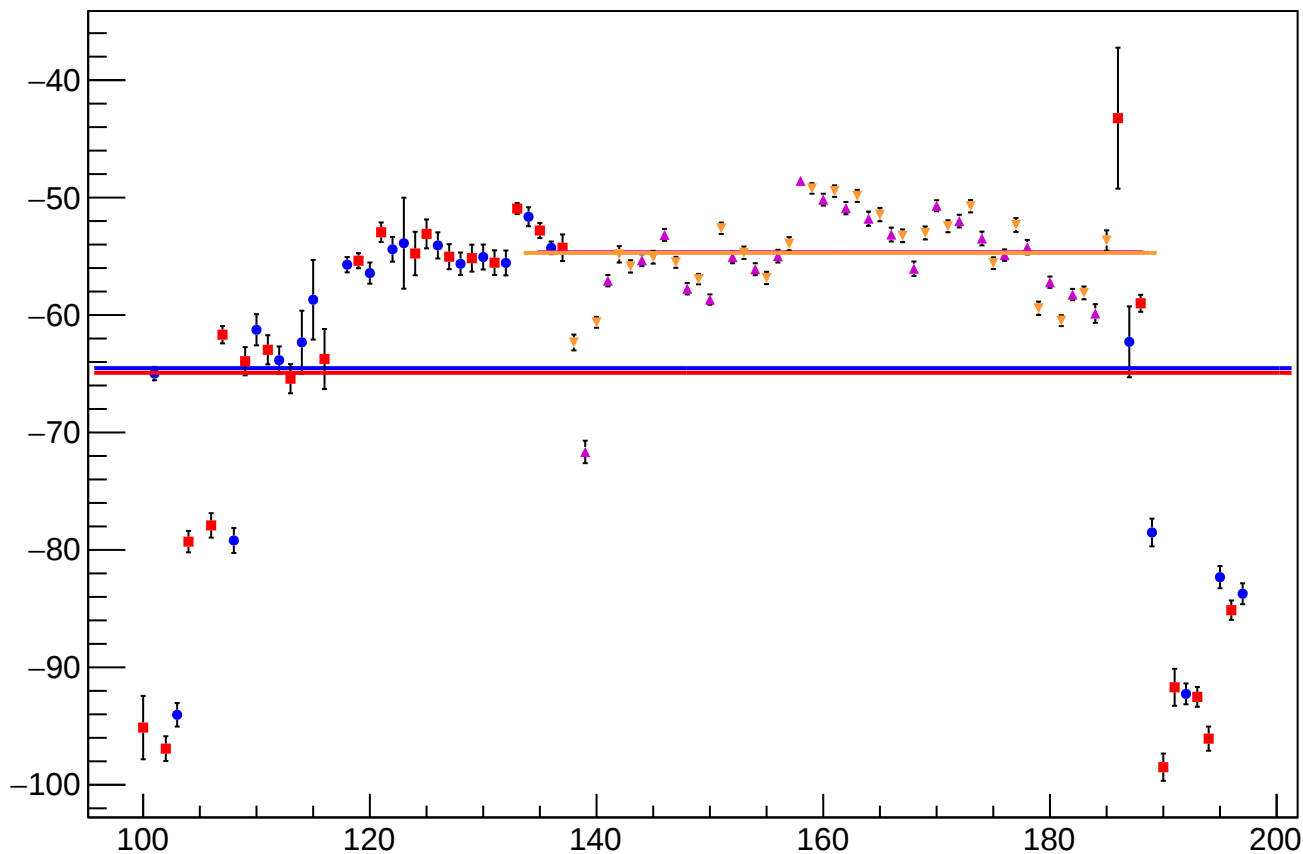
Right: -3.010 ± 0.255 χ^2/NDF : 66.7/11

In: 1.418 ± 0.129 χ^2/NDF : 1382.8/27

Out: 0.834 ± 0.122 χ^2/NDF : 1726.4/31

All: 1.110 ± 0.089 χ^2/NDF : 3120.0/59

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -64.521 ± 0.203 χ^2/NDF : 4318.4/21

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -64.919 ± 0.185 χ^2/NDF : 7388.6/25

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

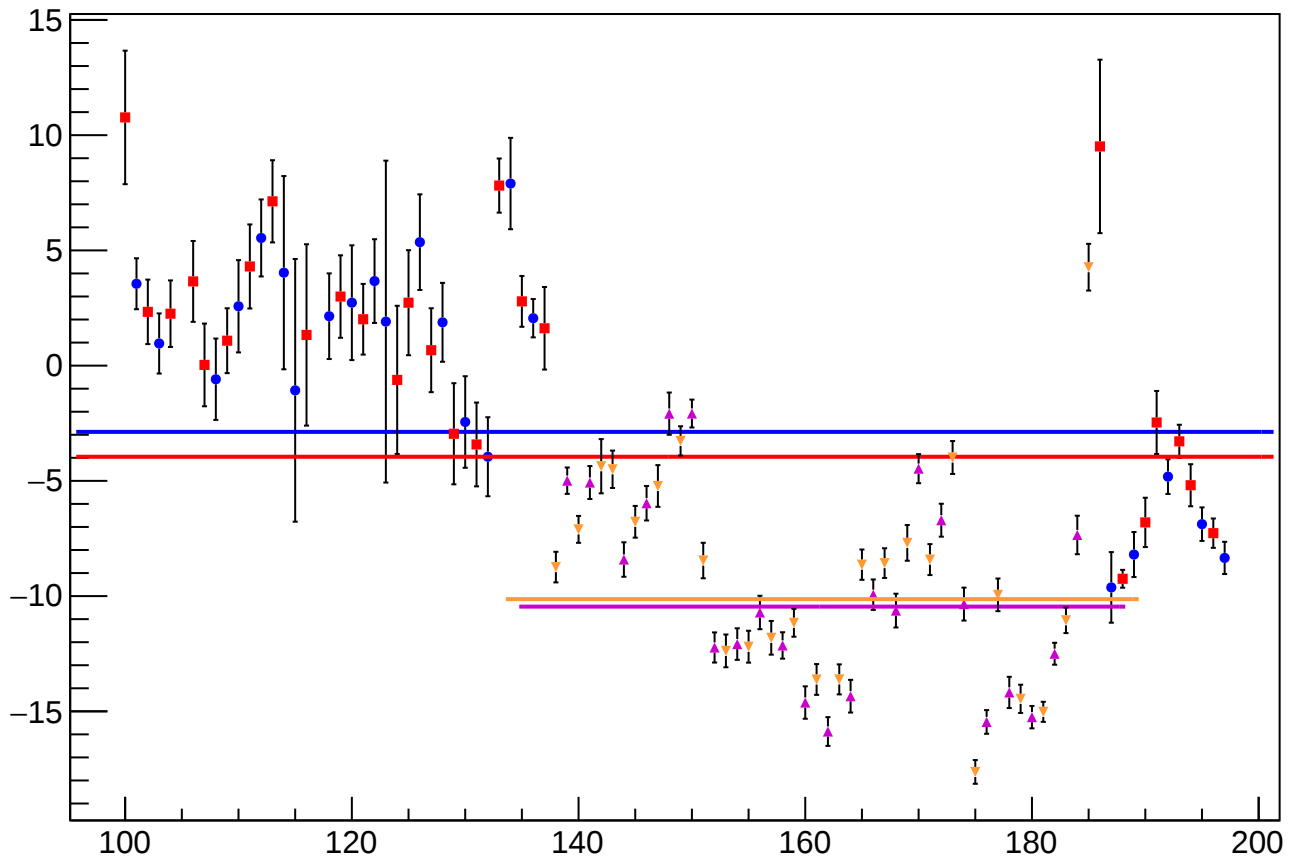
Right: -64.739 ± 0.137 χ^2/NDF : 11709.2/47

In: -56.879 ± 0.097 χ^2/NDF : 7221.4/44

Out: -57.214 ± 0.092 χ^2/NDF : 10806.3/50

All: -57.055 ± 0.067 χ^2/NDF : 18033.9/95

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.874 ± 0.275 χ^2/NDF : 341.4/21

Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24

Right Out: -3.953 ± 0.222 χ^2/NDF : 593.8/25

Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47

Right: -3.528 ± 0.172 χ^2/NDF : 944.5/47

In: -8.988 ± 0.121 χ^2/NDF : 1958.1/44

Out: -8.499 ± 0.114 χ^2/NDF : 2221.0/50

All: -8.729 ± 0.083 χ^2/NDF : 4187.8/95

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.025 ± 0.233 χ^2/NDF : 6679.7/21

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

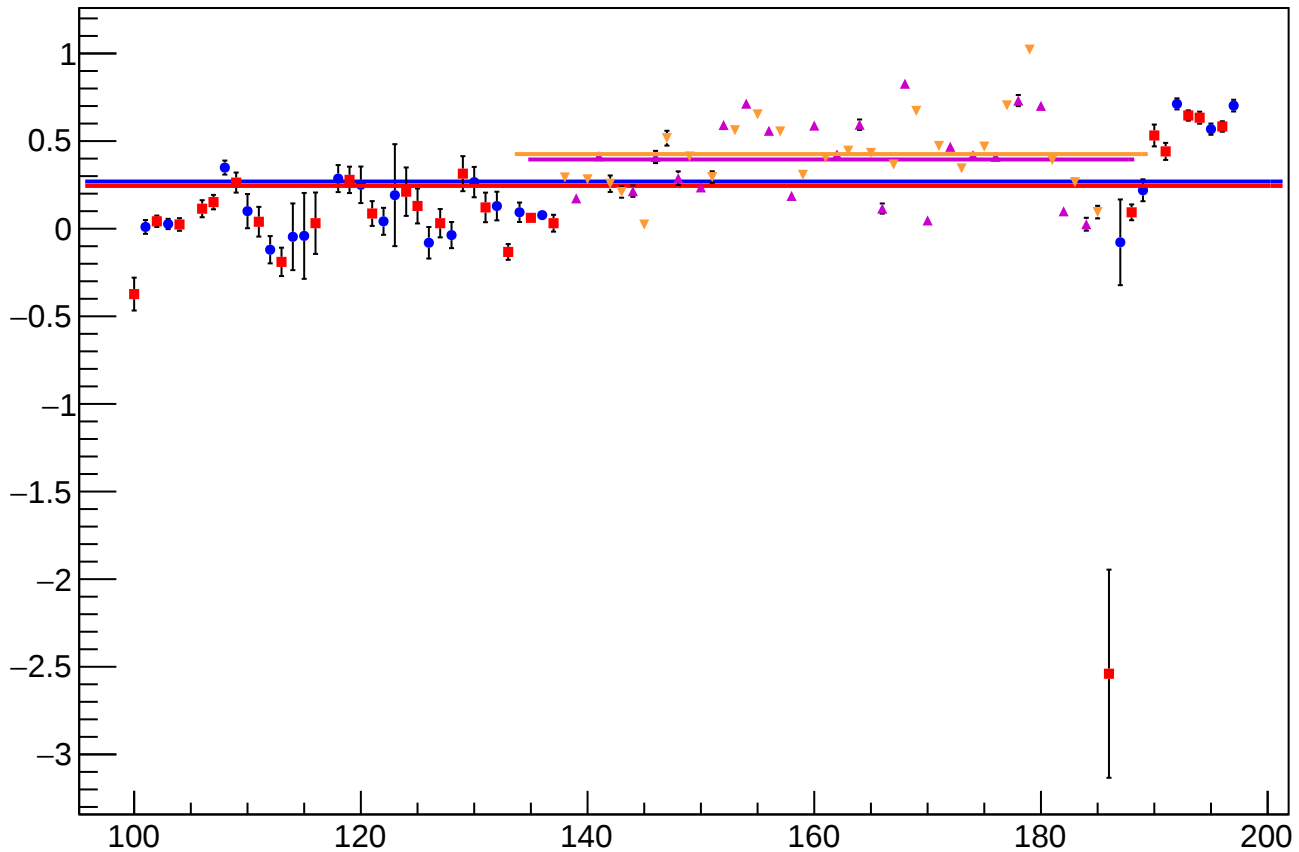
Right: -27.291 ± 0.159 χ^2/NDF : 16764.3/47

In: -35.701 ± 0.108 χ^2/NDF : 9098.5/44

Out: -35.395 ± 0.104 χ^2/NDF : 13114.5/50

All: -35.542 ± 0.075 χ^2/NDF : 22217.1/95

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.269 ± 0.010 χ^2/NDF : 730.5/21

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

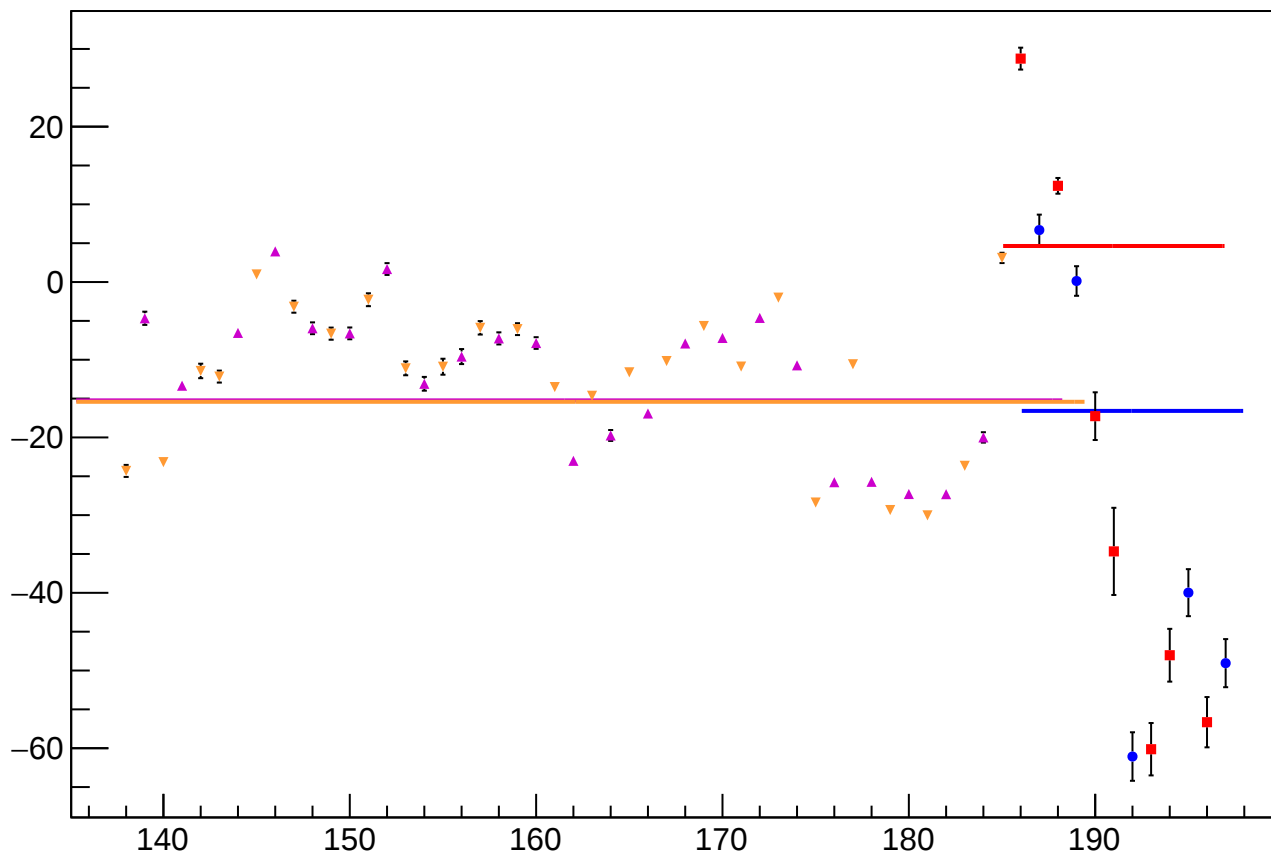
Right: 0.256 ± 0.007 χ^2/NDF : 1570.1/47

In: 0.368 ± 0.005 χ^2/NDF : 2644.3/44

Out: 0.382 ± 0.005 χ^2/NDF : 2416.9/50

All: 0.375 ± 0.003 χ^2/NDF : 5065.4/95

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.585 ± 1.088 $\chi^2/\text{NDF}: 587.0/4$
 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 $\chi^2/\text{NDF}: 19167.9/47$

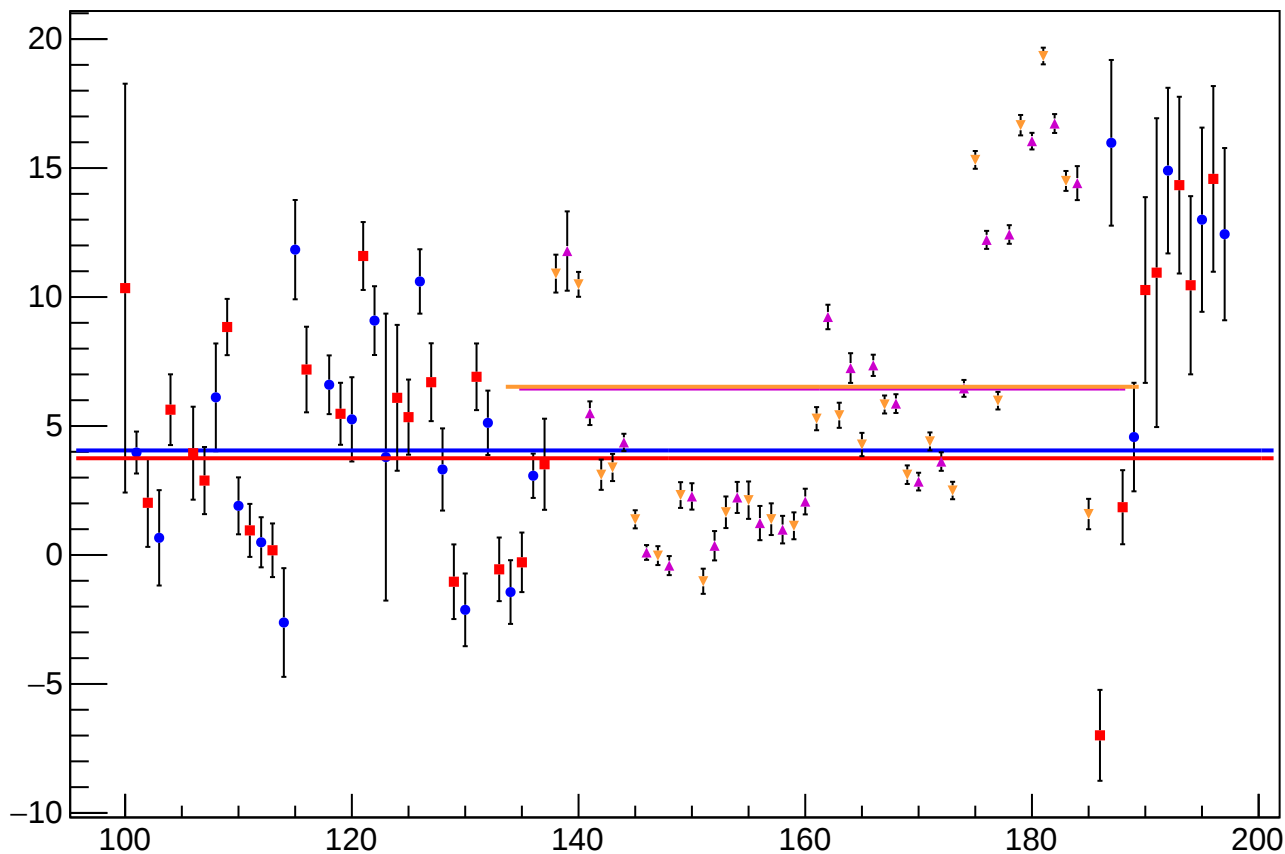
Right: -1.928 ± 0.605 $\chi^2/\text{NDF}: 2269.3/11$

In: -15.242 ± 0.106 $\chi^2/\text{NDF}: 9245.8/27$

Out: -15.003 ± 0.104 $\chi^2/\text{NDF}: 12671.4/31$

All: -15.120 ± 0.074 $\chi^2/\text{NDF}: 21919.8/59$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.053 ± 0.302 $\chi^2/\text{NDF}: 174.4/21$

Left Out: 6.521 ± 0.085 $\chi^2/\text{NDF}: 4985.2/24$

Right Out: 3.749 ± 0.300 $\chi^2/\text{NDF}: 199.9/25$

Left In: 6.452 ± 0.086 $\chi^2/\text{NDF}: 3948.0/22$

Left: 6.487 ± 0.061 $\chi^2/\text{NDF}: 8933.5/47$

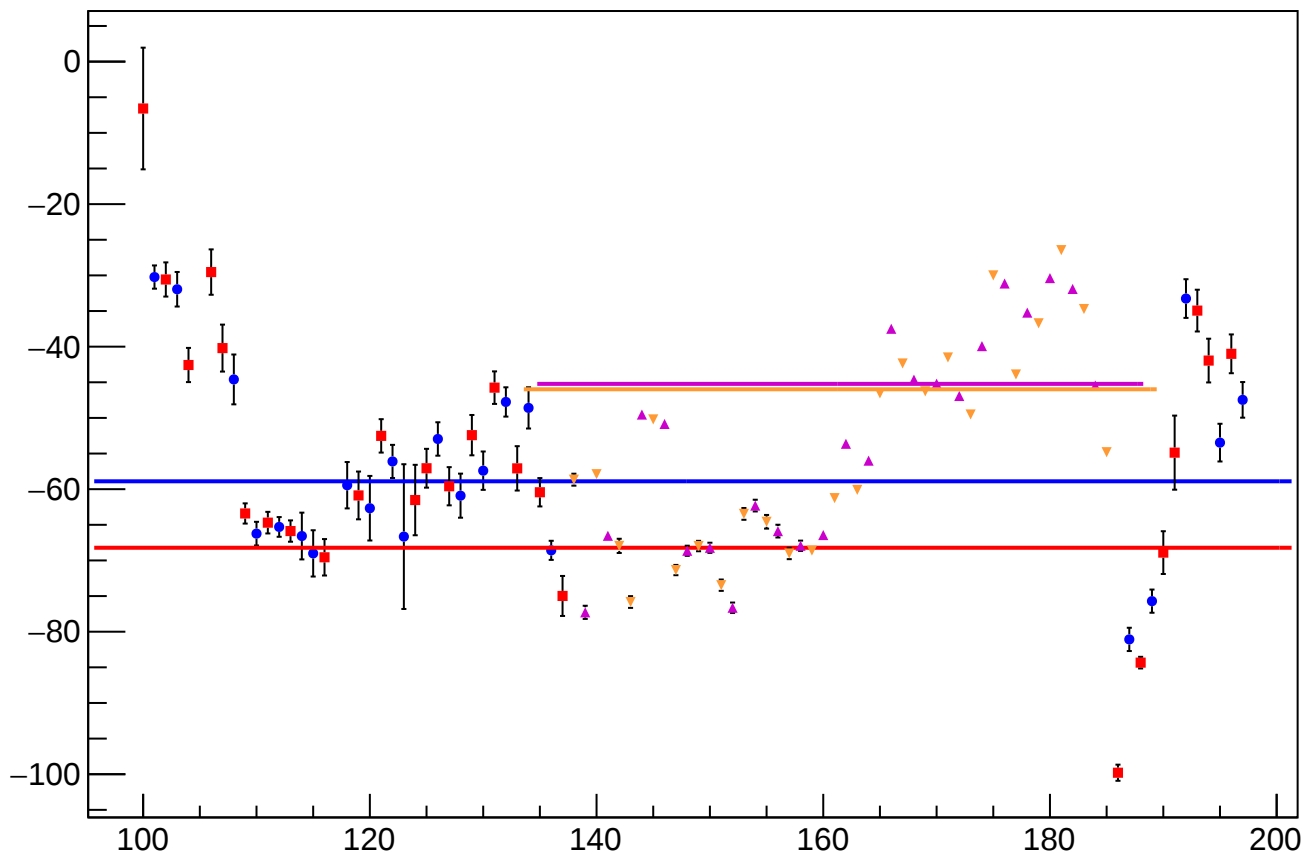
Right: 3.900 ± 0.213 $\chi^2/\text{NDF}: 374.7/47$

In: 6.272 ± 0.083 $\chi^2/\text{NDF}: 4180.6/44$

Out: 6.313 ± 0.082 $\chi^2/\text{NDF}: 5264.1/50$

All: 6.293 ± 0.058 $\chi^2/\text{NDF}: 9444.9/95$

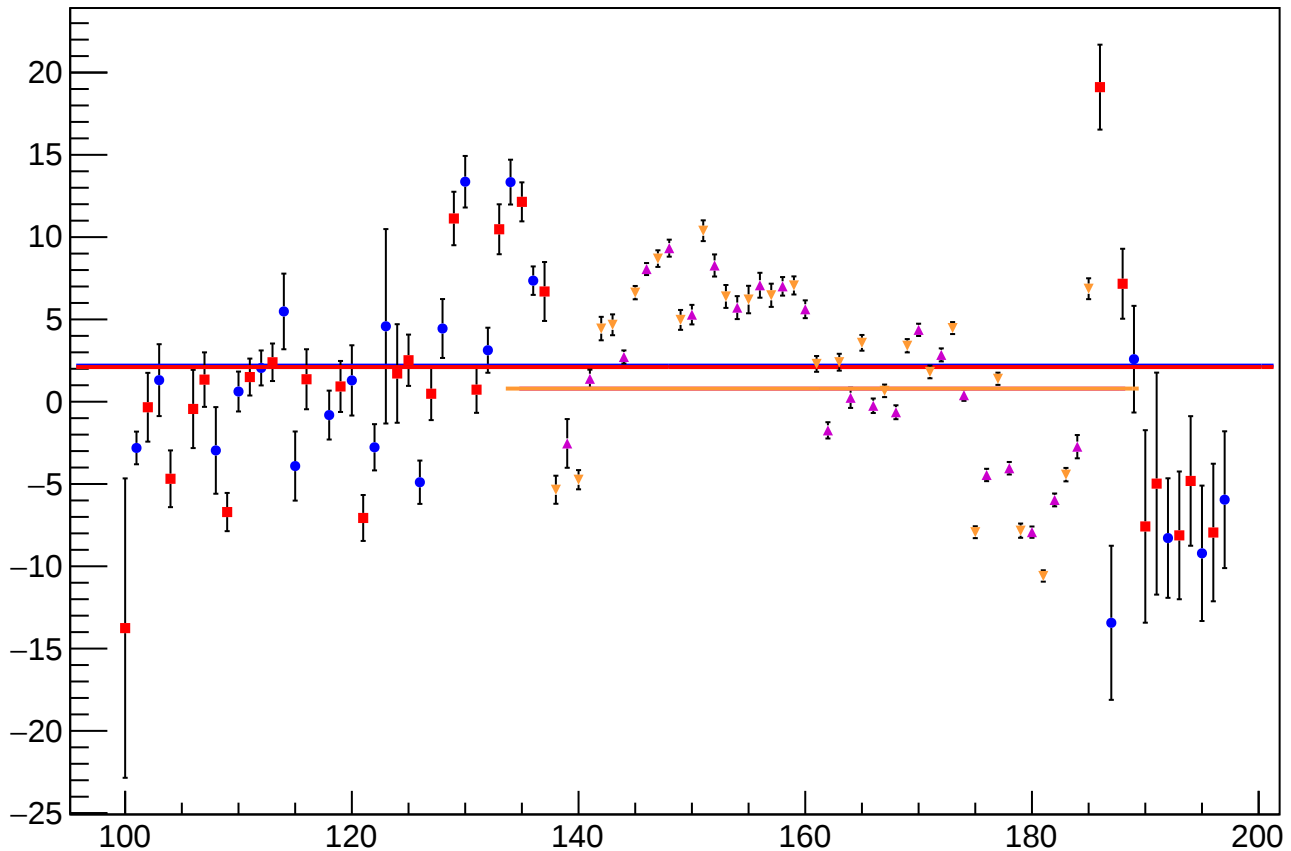
reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -58.895 ± 0.468 $\chi^2/\text{NDF}: 1015.0/21$
 Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$
 Right Out: -68.219 ± 0.400 $\chi^2/\text{NDF}: 2368.2/25$
 Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$
 Right: -64.284 ± 0.304 $\chi^2/\text{NDF}: 3612.7/47$
 In: -45.903 ± 0.104 $\chi^2/\text{NDF}: 17426.4/44$
 Out: -47.448 ± 0.103 $\chi^2/\text{NDF}: 22616.8/50$
 All: -46.689 ± 0.073 $\chi^2/\text{NDF}: 40154.4/95$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.192 $\pm$ 0.341 χ^2 /NDF: 274.1/21

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

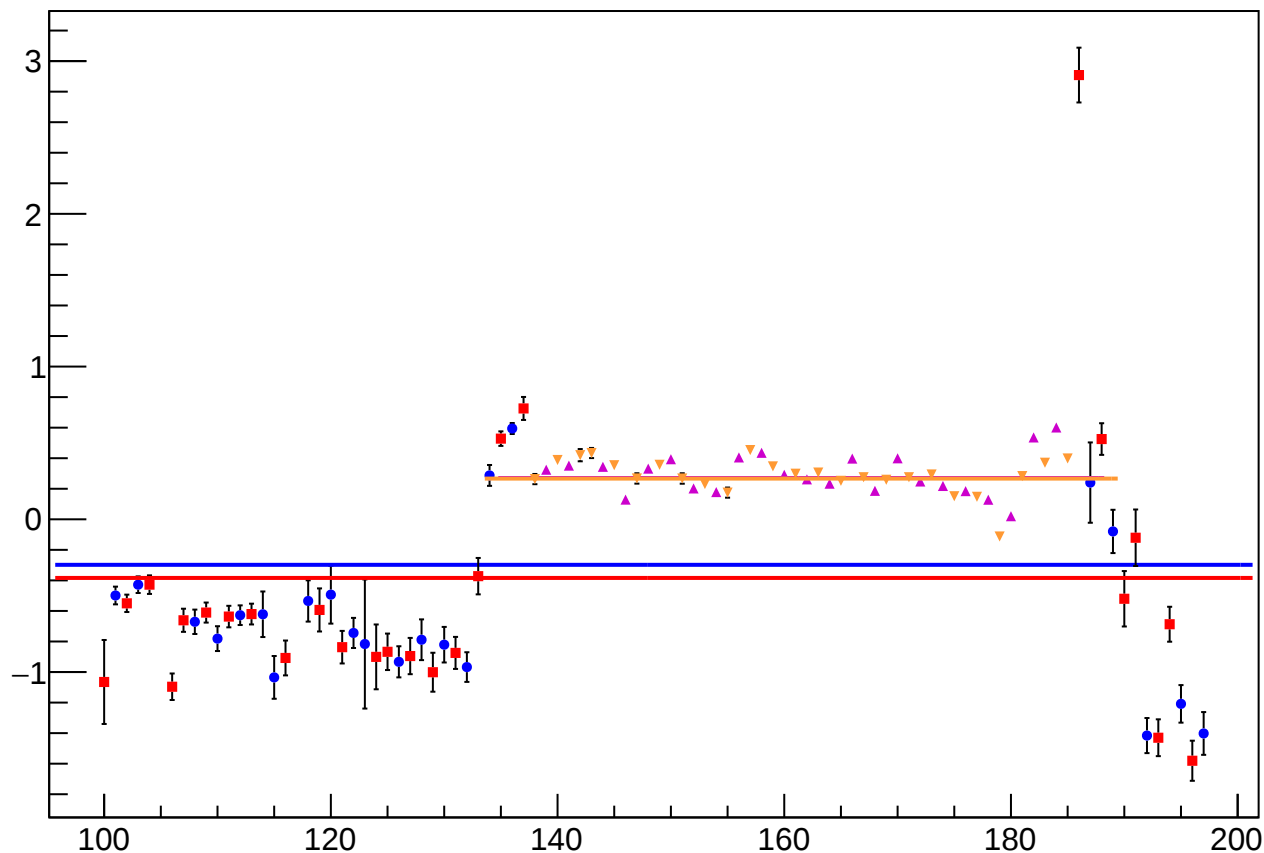
Right: 2.149 $\pm$ 0.242 χ^2 /NDF: 607.8/47

In: 0.896 $\pm$ 0.093 χ^2 /NDF:2982.2/44

Out: 0.892 $\pm$ 0.092 χ^2 /NDF:4107.1/50

All: 0.894 $\pm$ 0.065 χ^2 /NDF: 7089.3/95

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.298 ± 0.018 χ^2/NDF : 1187.2/21

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

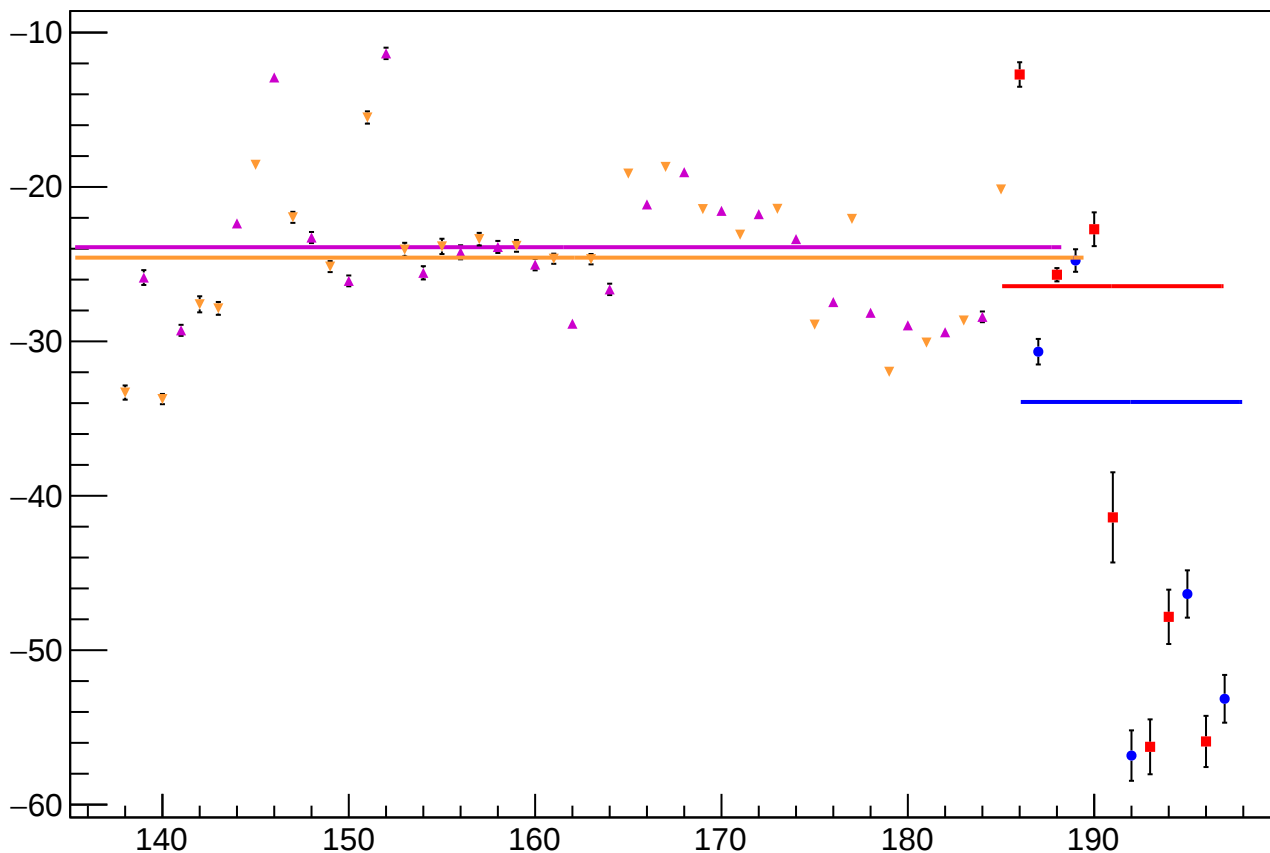
Right: -0.342 ± 0.013 χ^2/NDF : 2625.6/47

In: 0.238 ± 0.004 χ^2/NDF : 3086.8/44

Out: 0.230 ± 0.004 χ^2/NDF : 3386.3/50

All: 0.234 ± 0.003 χ^2/NDF : 6475.1/95

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.924 ± 0.469 $\chi^2/\text{NDF}: 589.8/4$
 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 $\chi^2/\text{NDF}: 17833.1/47$

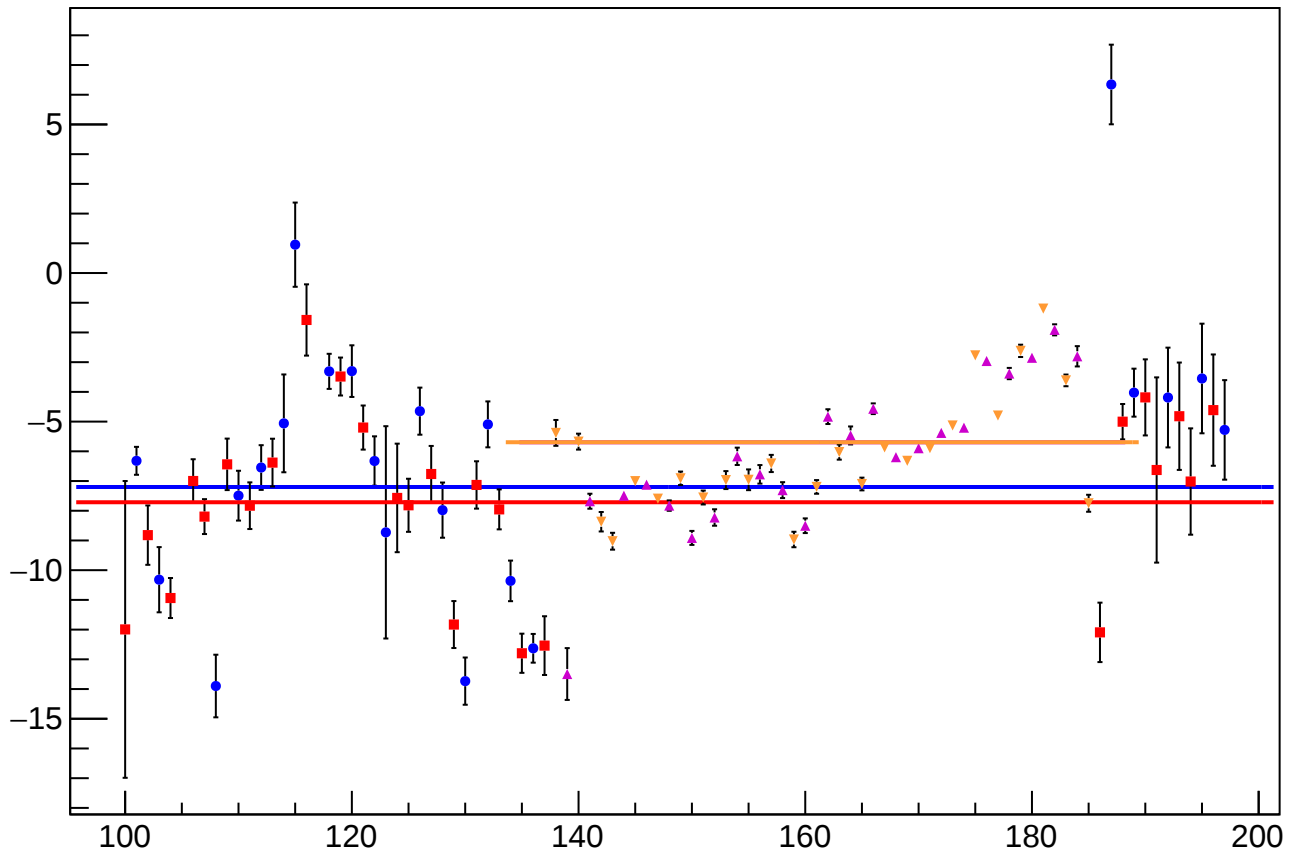
Right: -28.958 ± 0.272 $\chi^2/\text{NDF}: 1844.5/11$

In: -24.019 ± 0.051 $\chi^2/\text{NDF}: 10196.8/27$

Out: -24.619 ± 0.050 $\chi^2/\text{NDF}: 9705.4/31$

All: -24.321 ± 0.036 $\chi^2/\text{NDF}: 19972.6/59$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.201 ± 0.178 χ^2/NDF : 512.3/21

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

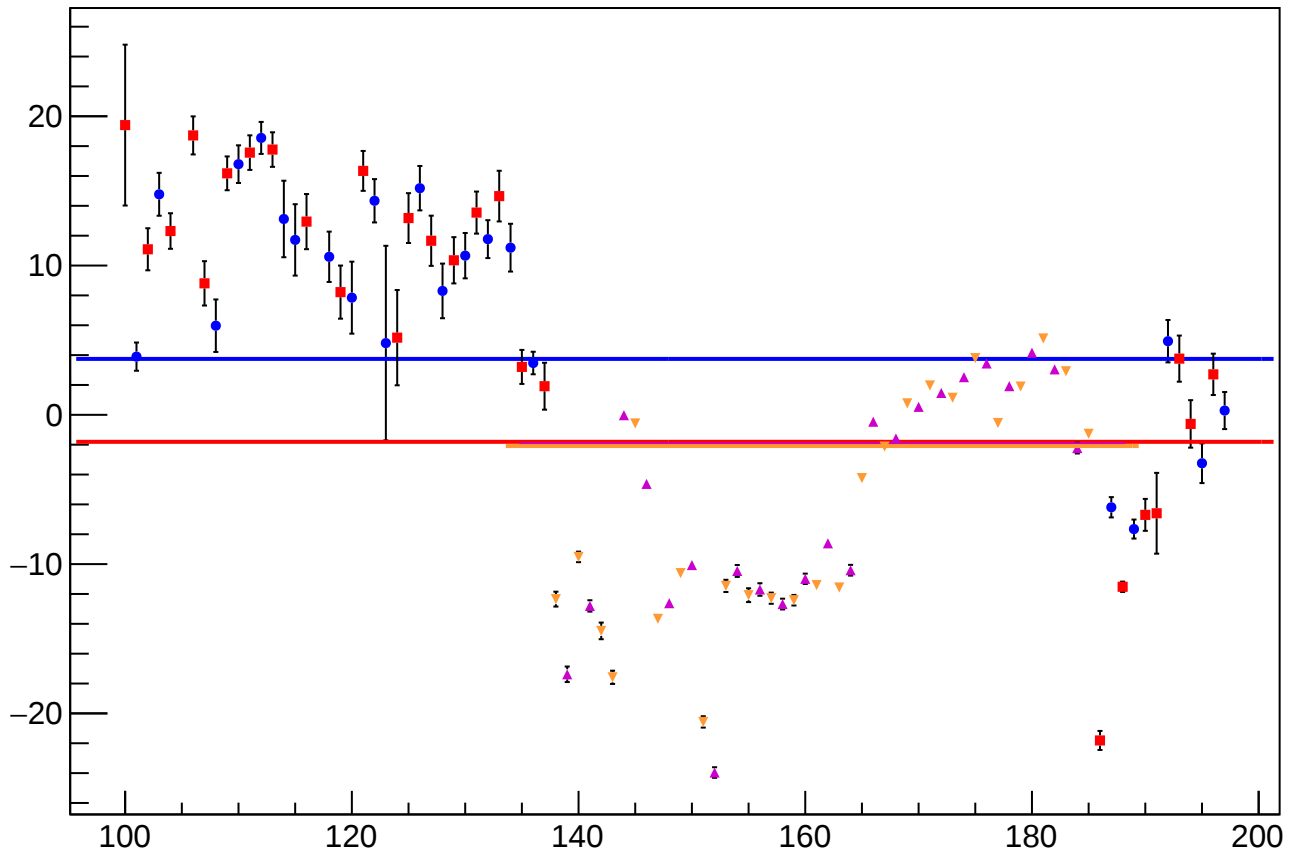
Right: -7.468 ± 0.123 χ^2/NDF : 794.9/47

In: -5.771 ± 0.040 χ^2/NDF : 2890.0/44

Out: -5.805 ± 0.040 χ^2/NDF : 2668.9/50

All: -5.788 ± 0.028 χ^2/NDF : 5559.2/95

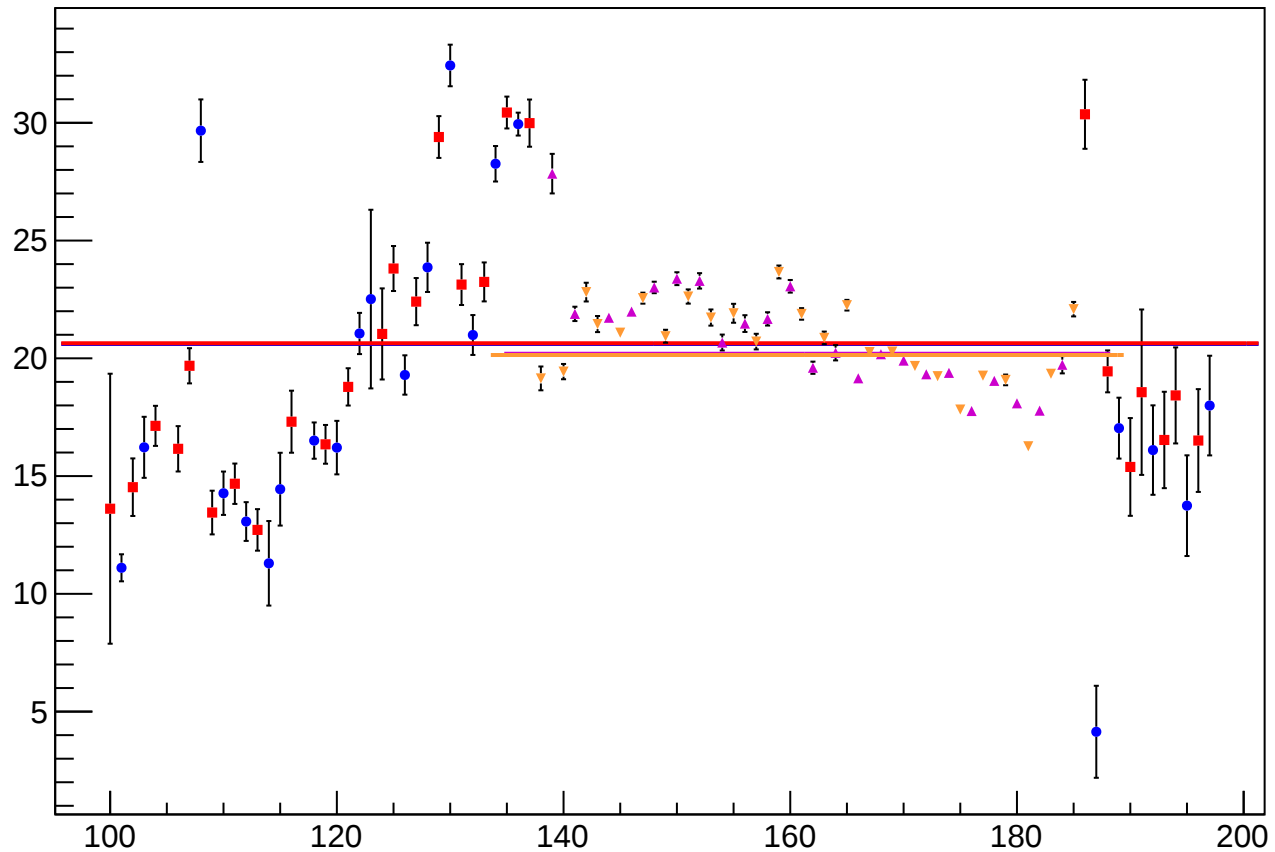
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.746 ± 0.258 $\chi^2/\text{NDF}: 1173.9/21$
 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: 0.440 ± 0.164 $\chi^2/\text{NDF}: 5368.9/47$
 In: -1.762 ± 0.050 $\chi^2/\text{NDF}: 17031.6/44$
 Out: -2.076 ± 0.050 $\chi^2/\text{NDF}: 20225.3/50$
 All: -1.920 ± 0.035 $\chi^2/\text{NDF}: 37276.5/95$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.608 $\pm$ 0.204 χ^2 /NDF: 1309.8/21

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

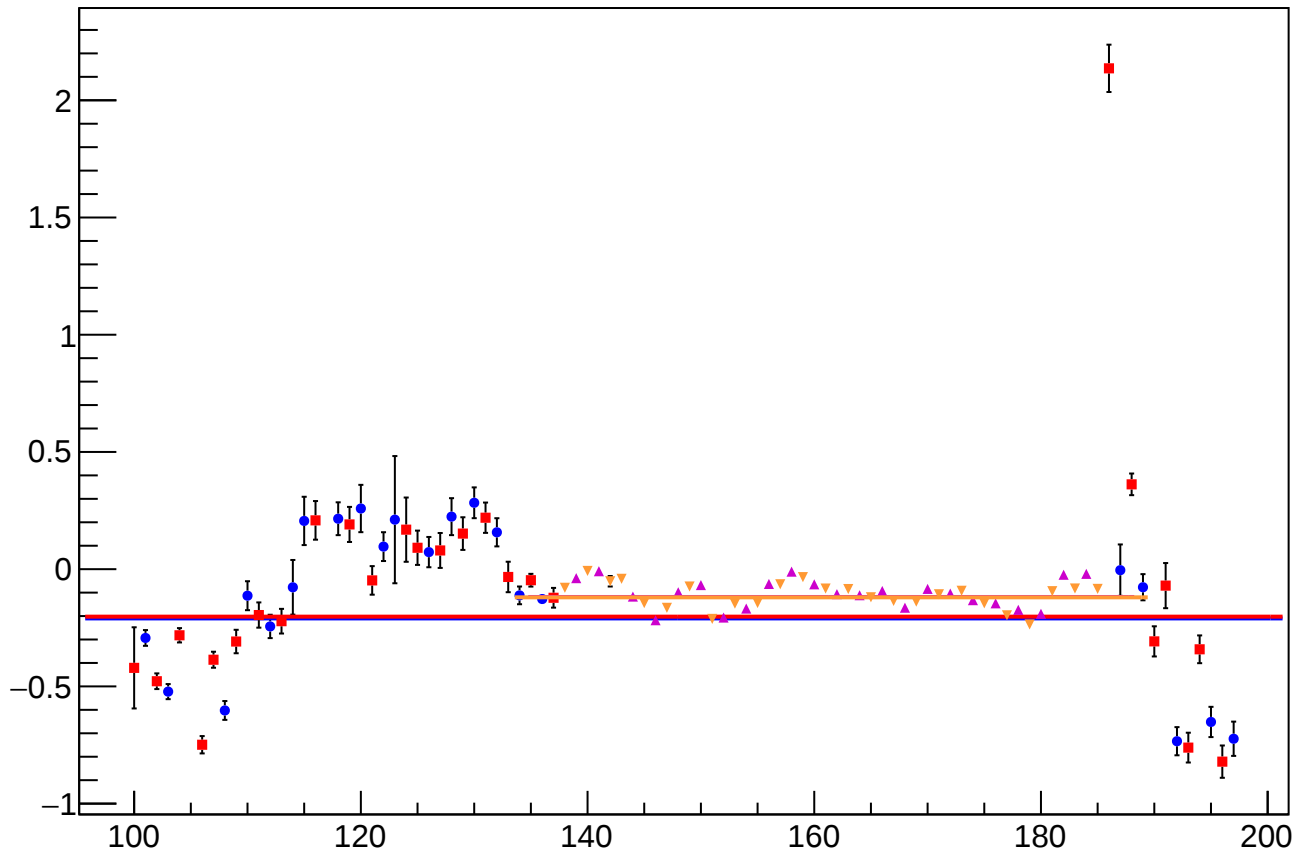
Right: 20.624 $\pm$ 0.143 χ^2 /NDF: 2092.8/47

In: 20.214 $\pm$ 0.045 χ^2 /NDF:2761.1/44

Out: 20.166 $\pm$ 0.045 χ^2 /NDF:2208.0/50

All: 20.190 $\pm$ 0.032 χ^2 /NDF: 4969.6/95

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.210 ± 0.011 $\chi^2/\text{NDF}: 650.0/21$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.203 ± 0.010 $\chi^2/\text{NDF}: 1390.8/25$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

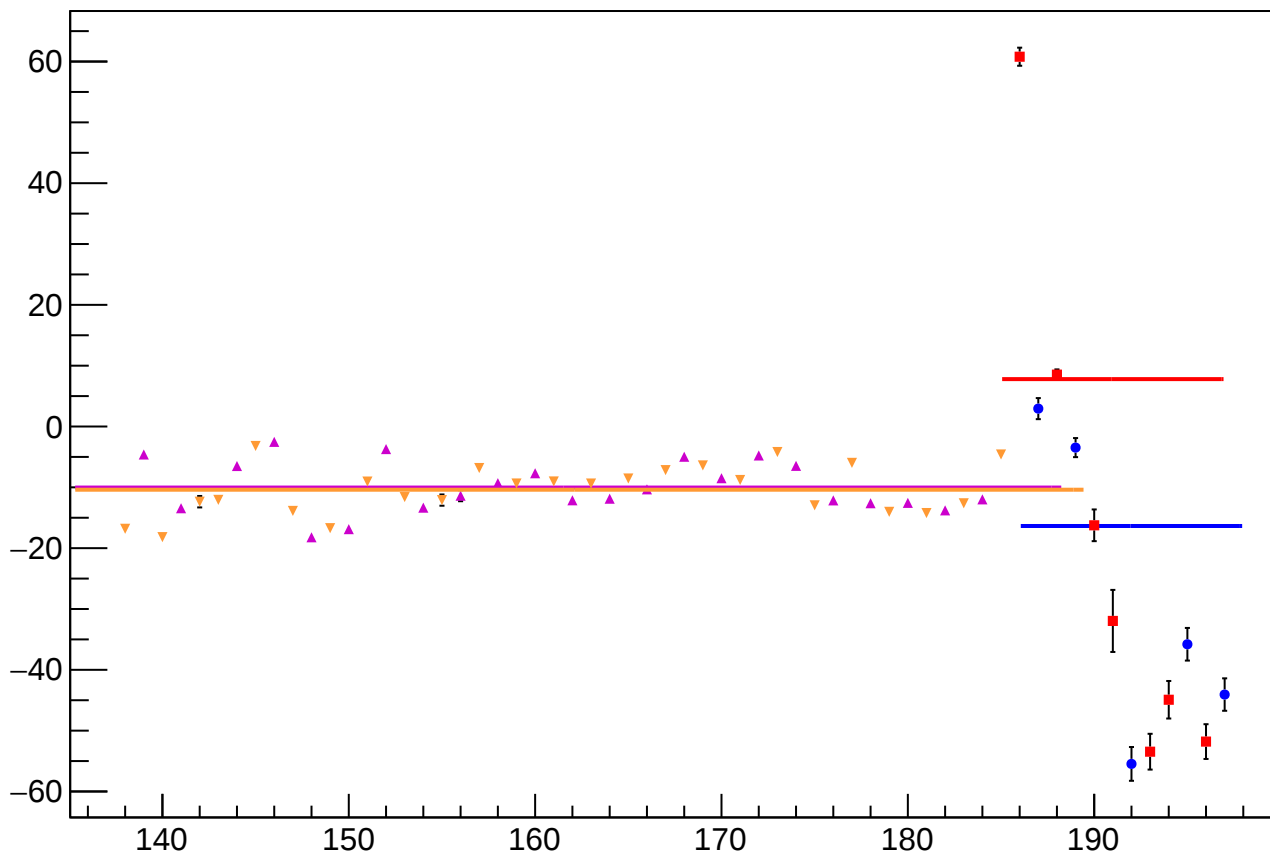
Right: -0.206 ± 0.007 $\chi^2/\text{NDF}: 2041.0/47$

In: -0.122 ± 0.002 $\chi^2/\text{NDF}: 1444.5/44$

Out: -0.124 ± 0.002 $\chi^2/\text{NDF}: 1986.1/50$

All: -0.123 ± 0.001 $\chi^2/\text{NDF}: 3430.8/95$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

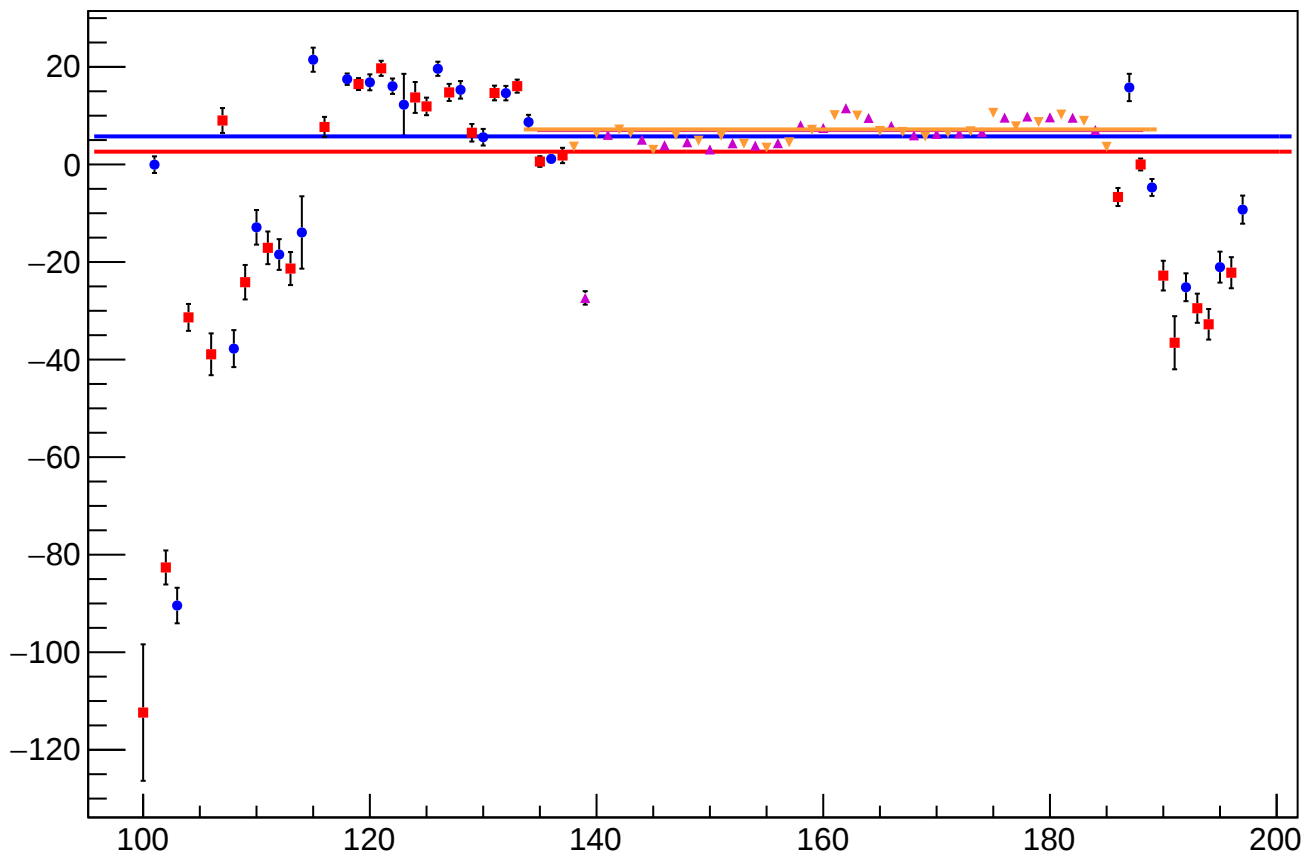


Right In: -16.355 ± 0.933 $\chi^2/\text{NDF}: 550.6/4$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 7.792 ± 0.654 $\chi^2/\text{NDF}: 2578.2/6$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: -0.169 ± 0.536 $\chi^2/\text{NDF}: 3577.9/11$
 In: -10.093 ± 0.089 $\chi^2/\text{NDF}: 2354.7/27$
 Out: -10.069 ± 0.087 $\chi^2/\text{NDF}: 5448.5/31$

All: -10.081 ± 0.062 $\chi^2/\text{NDF}: 7803.3/59$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.754 $\pm$ 0.382 χ^2 /NDF: 1623.8/21

Left Out: 7.184 $\pm$ 0.073 χ^2 /NDF: 917.3/24

Right Out: 2.621 $\pm$ 0.386 χ^2 /NDF: 2029.0/25

Left In: 7.053 $\pm$ 0.074 χ^2 /NDF: 1535.8/22

Left: 7.119 $\pm$ 0.052 χ^2 /NDF: 2454.8/47

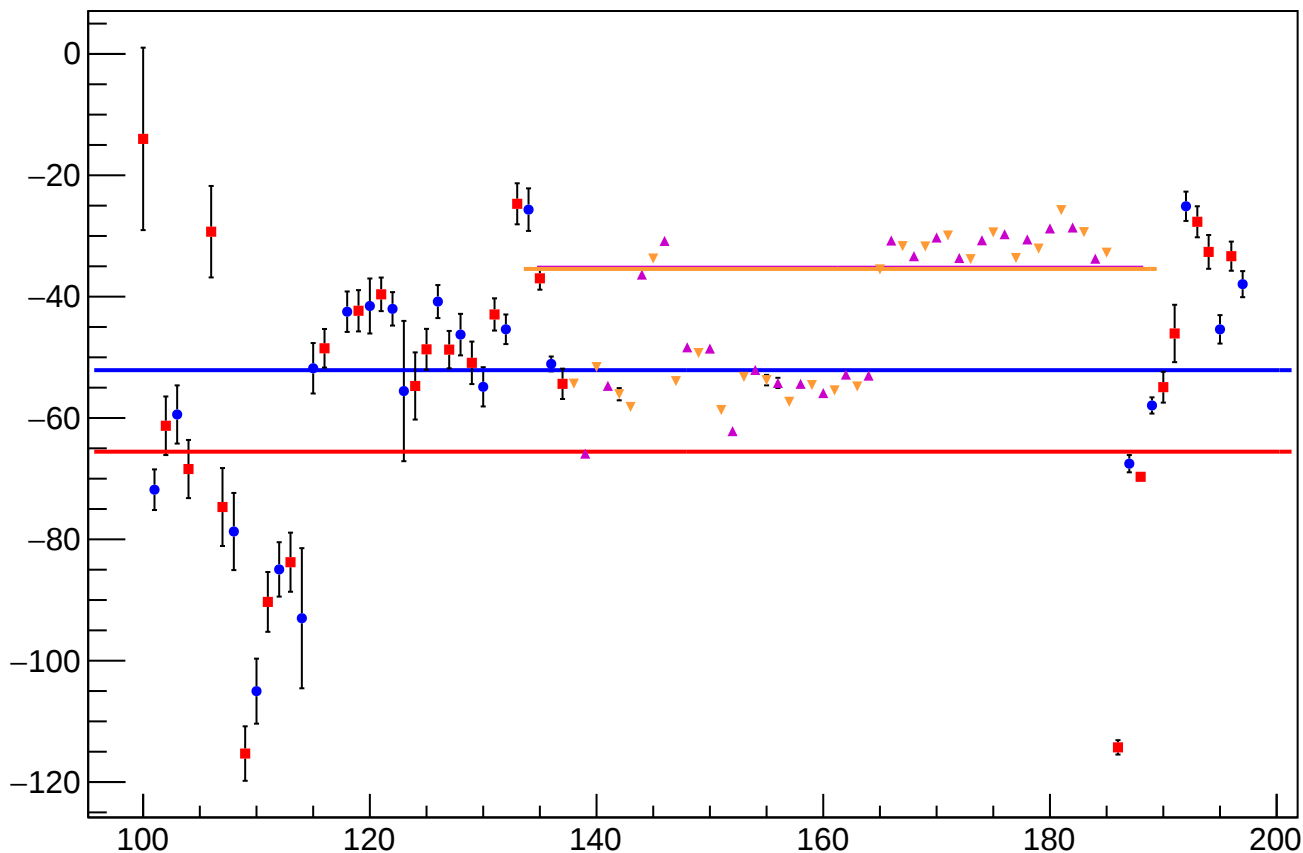
Right: 4.202 $\pm$ 0.272 χ^2 /NDF: 3686.1/47

In: 7.006 $\pm$ 0.073 χ^2 /NDF: 3170.8/44

Out: 7.025 $\pm$ 0.072 χ^2 /NDF: 3081.2/50

All: 7.015 $\pm$ 0.051 χ^2 /NDF: 6252.0/95

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.118 ± 0.539 χ^2/NDF : 644.8/21

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

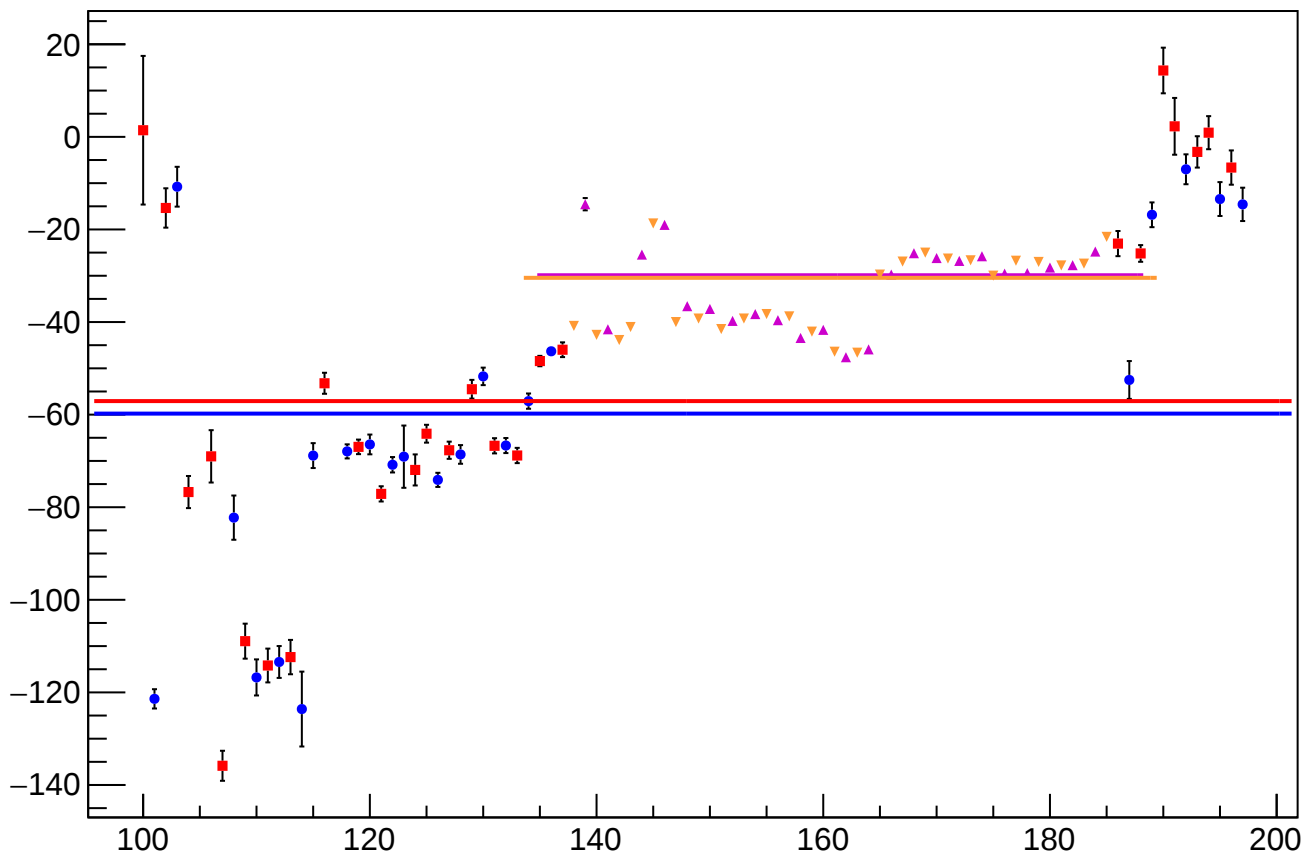
Right: -60.081 ± 0.344 χ^2/NDF : 4214.8/47

In: -35.688 ± 0.089 χ^2/NDF : 13202.5/44

Out: -36.584 ± 0.087 χ^2/NDF : 20355.3/50

All: -36.144 ± 0.062 χ^2/NDF : 33609.6/95

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -59.779 ± 0.430 χ^2/NDF : 2920.9/21

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

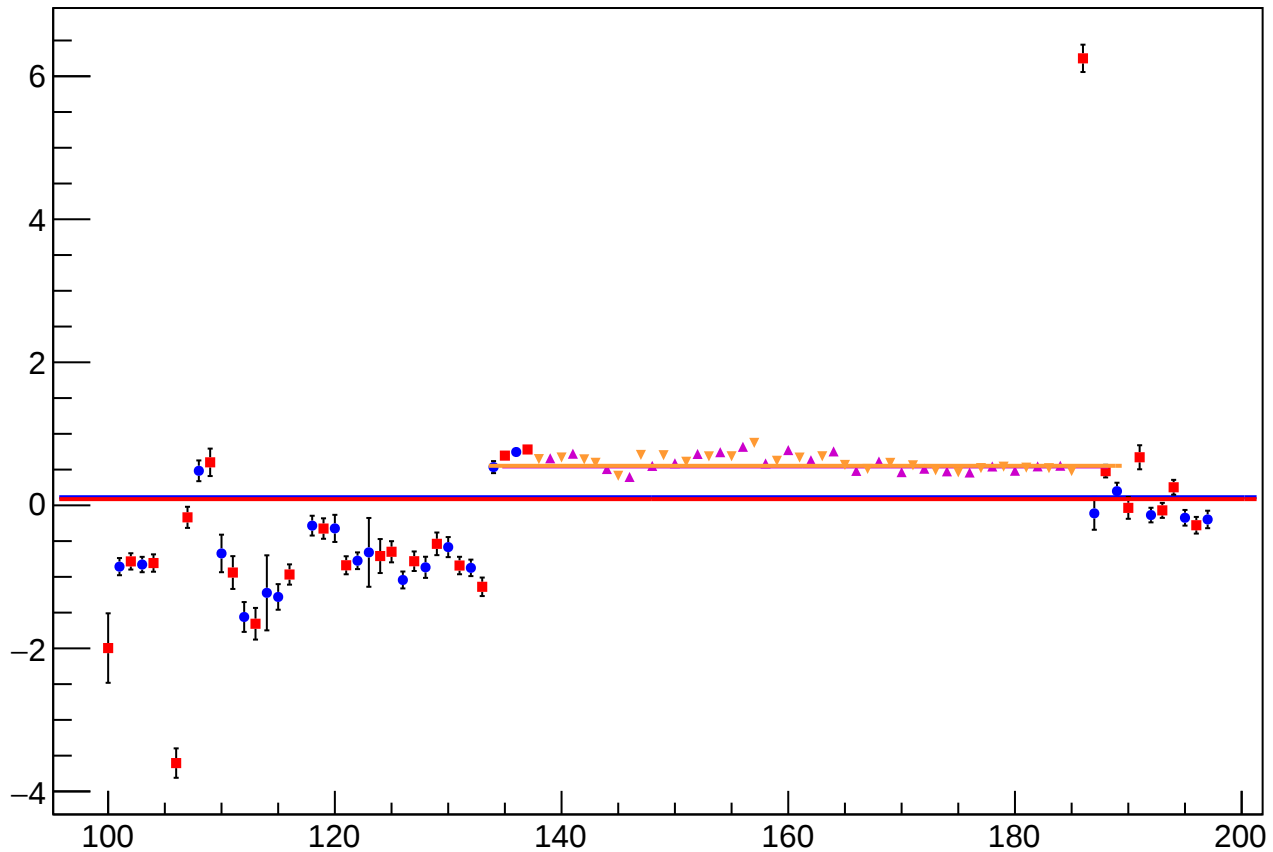
Right: -58.477 ± 0.310 χ^2/NDF : 6256.8/47

In: -30.954 ± 0.081 χ^2/NDF : 14690.3/44

Out: -31.308 ± 0.080 χ^2/NDF : 14929.7/50

All: -31.133 ± 0.057 χ^2/NDF : 29629.6/95

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.114+/-0.022 χ^2/NDF : 1010.8/21

Left Out: 0.553+/-0.004 χ^2/NDF :542.1/24

Right Out: 0.087+/-0.023 χ^2/NDF : 2277.1/25

Left In: 0.544+/-0.004 χ^2/NDF :655.9/22

Left: 0.548+/-0.003 χ^2/NDF : 1200.9/47

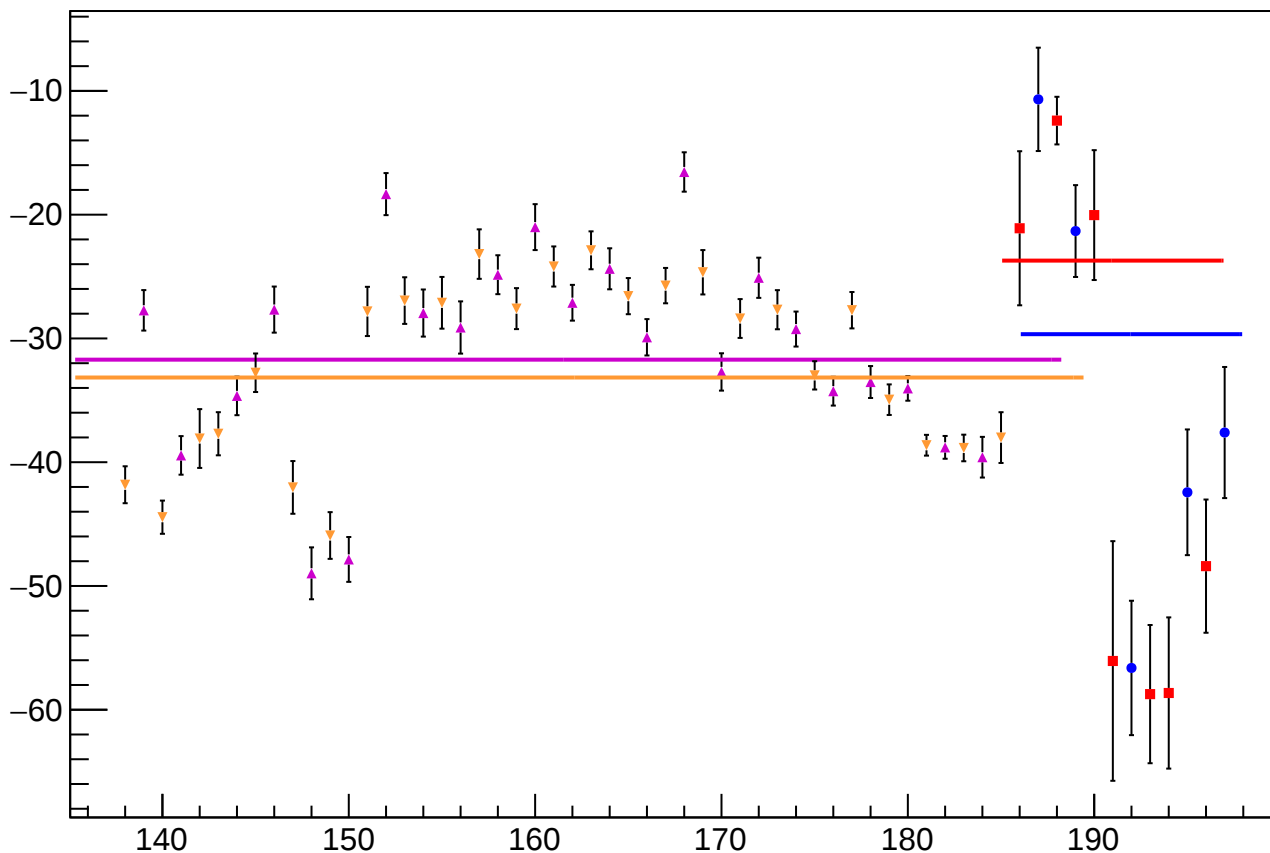
Right: 0.101+/-0.016 χ^2/NDF : 3288.5/47

In: 0.531+/-0.004 χ^2/NDF :2037.7/44

Out: 0.541+/-0.004 χ^2/NDF :3228.4/50

All: 0.536+/-0.003 χ^2/NDF : 5269.4/95

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.656 ± 2.048 $\chi^2/\text{NDF}: 58.9/4$
 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: -25.811 ± 1.217 $\chi^2/\text{NDF}: 203.9/11$
 In: -31.669 ± 0.305 $\chi^2/\text{NDF}: 602.2/27$
 Out: -32.799 ± 0.294 $\chi^2/\text{NDF}: 677.0/31$
 All: -32.255 ± 0.212 $\chi^2/\text{NDF}: 1286.3/59$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -50.682 ± 0.699 χ^2/NDF : 1640.4/21

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -53.705 ± 0.711 χ^2/NDF : 2308.6/25

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

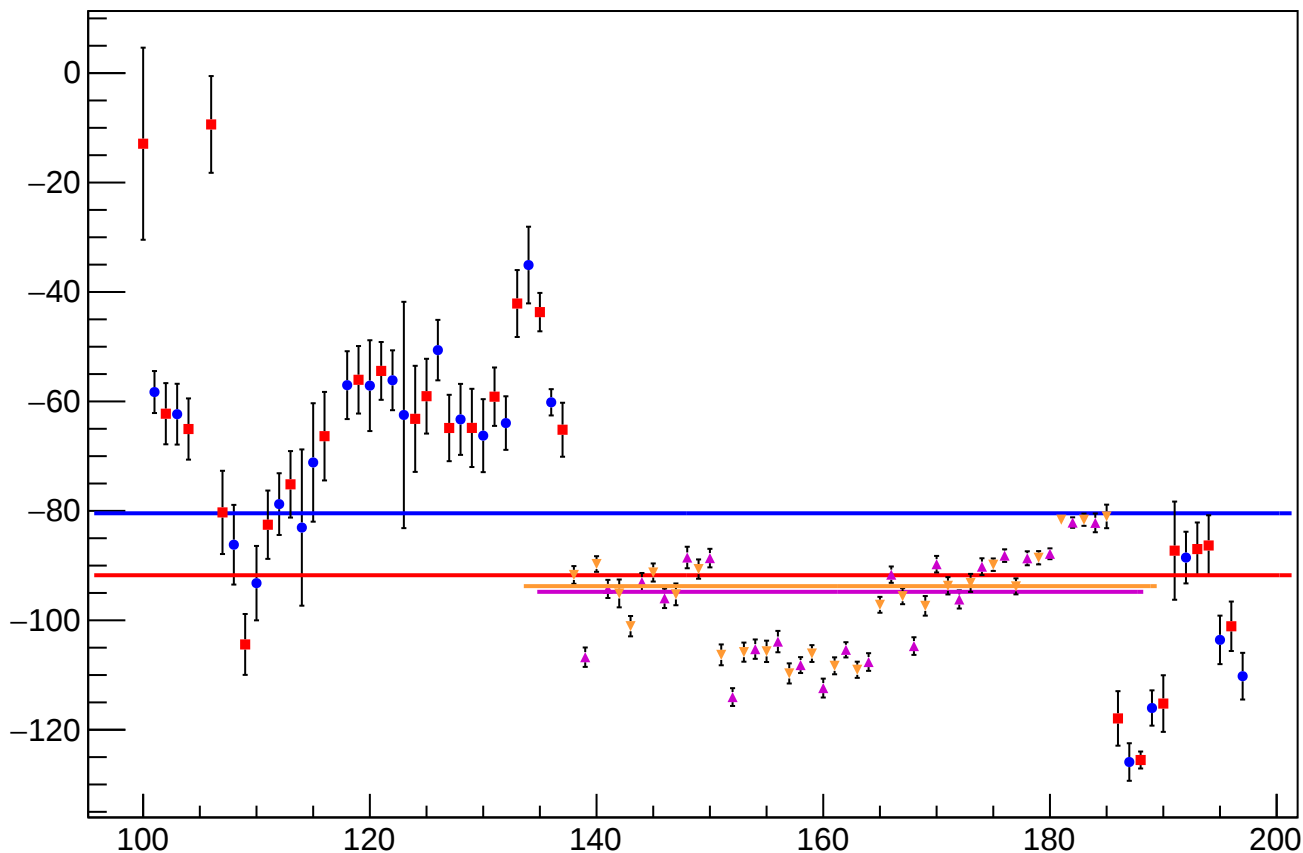
Right: -52.169 ± 0.498 χ^2/NDF : 3958.1/47

In: -36.030 ± 0.236 χ^2/NDF : 3588.6/44

Out: -36.296 ± 0.229 χ^2/NDF : 3673.0/50

All: -36.168 ± 0.164 χ^2/NDF : 7262.3/95

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.440 ± 1.049 χ^2/NDF : 633.0/21

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -91.762 ± 0.931 χ^2/NDF : 1182.6/25

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

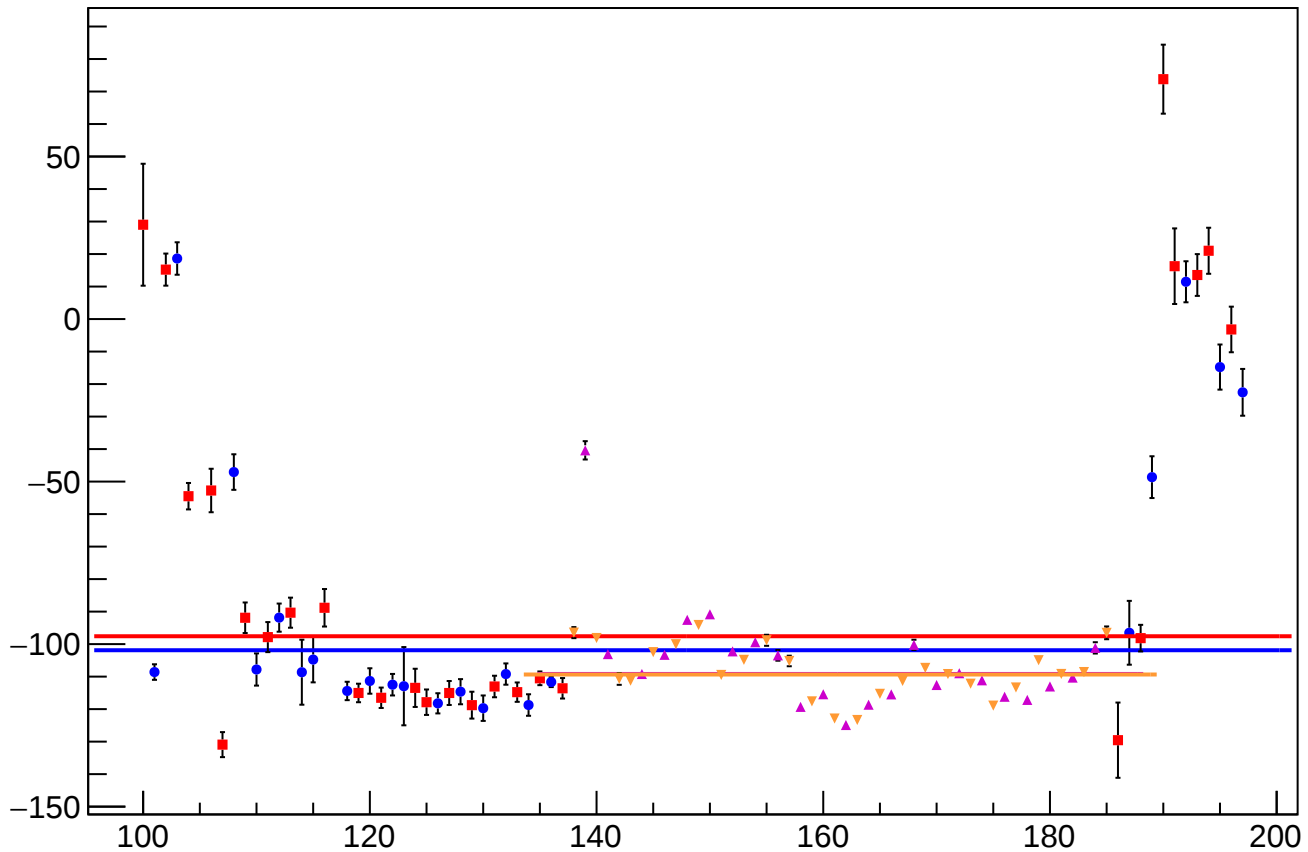
Right: -86.773 ± 0.697 χ^2/NDF : 1880.7/47

In: -93.654 ± 0.296 χ^2/NDF : 1780.0/44

Out: -93.565 ± 0.287 χ^2/NDF : 2069.8/50

All: -93.608 ± 0.206 χ^2/NDF : 3849.8/95

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -101.884 ± 0.792 $\chi^2/\text{NDF}: 1535.2/21$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -97.581 ± 0.819 $\chi^2/\text{NDF}: 2206.1/25$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

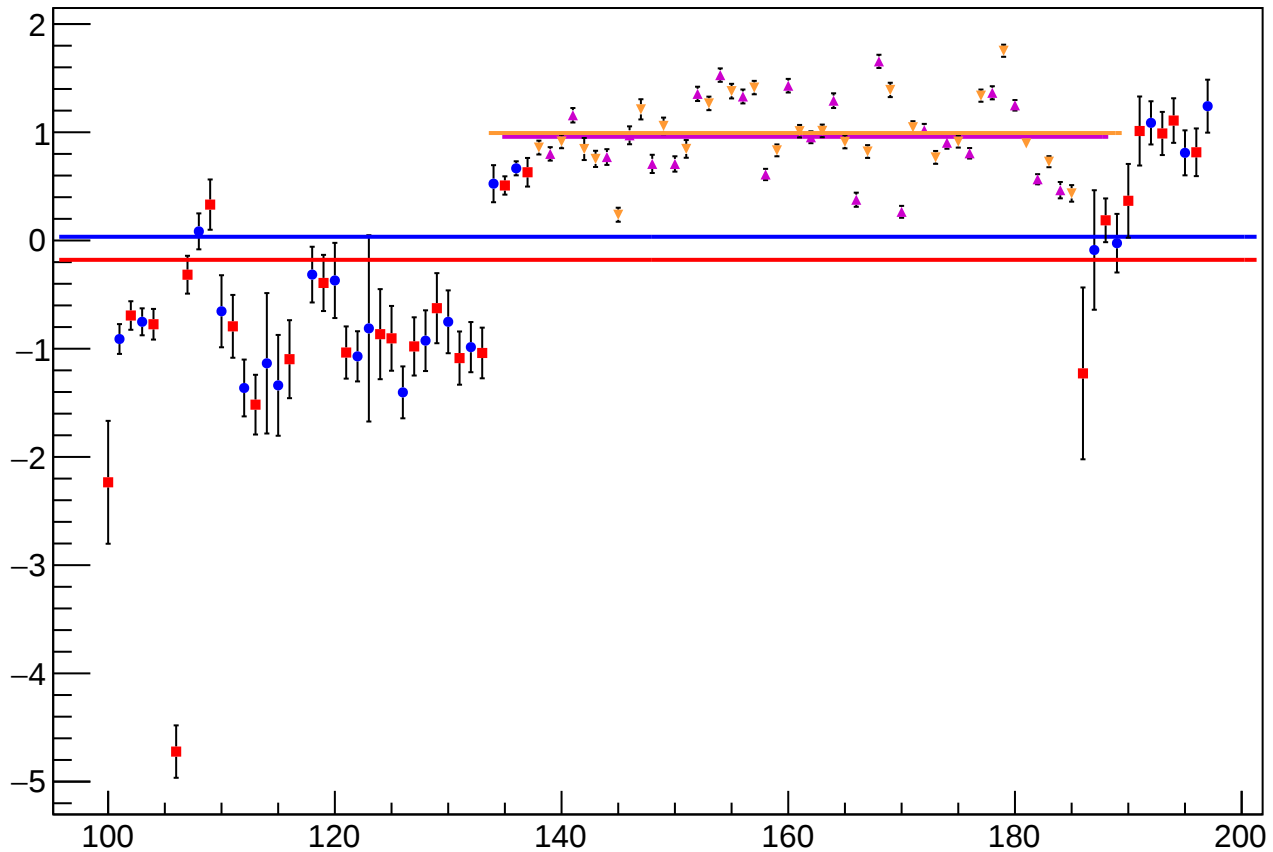
Right: -99.803 ± 0.569 $\chi^2/\text{NDF}: 3755.6/47$

In: -108.374 ± 0.264 $\chi^2/\text{NDF}: 3111.9/44$

Out: -108.187 ± 0.257 $\chi^2/\text{NDF}: 3219.2/50$

All: -108.278 ± 0.184 $\chi^2/\text{NDF}: 6331.3/95$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.040 χ^2 /NDF: 401.9/21

Left Out: 0.993 $\pm$ 0.012 χ^2 /NDF:638.6/24

Right Out: -0.179 $\pm$ 0.040 χ^2 /NDF: 716.3/25

Left In: 0.958 $\pm$ 0.013 χ^2 /NDF:894.5/22

Left: 0.976 $\pm$ 0.009 χ^2 /NDF: 1537.0/47

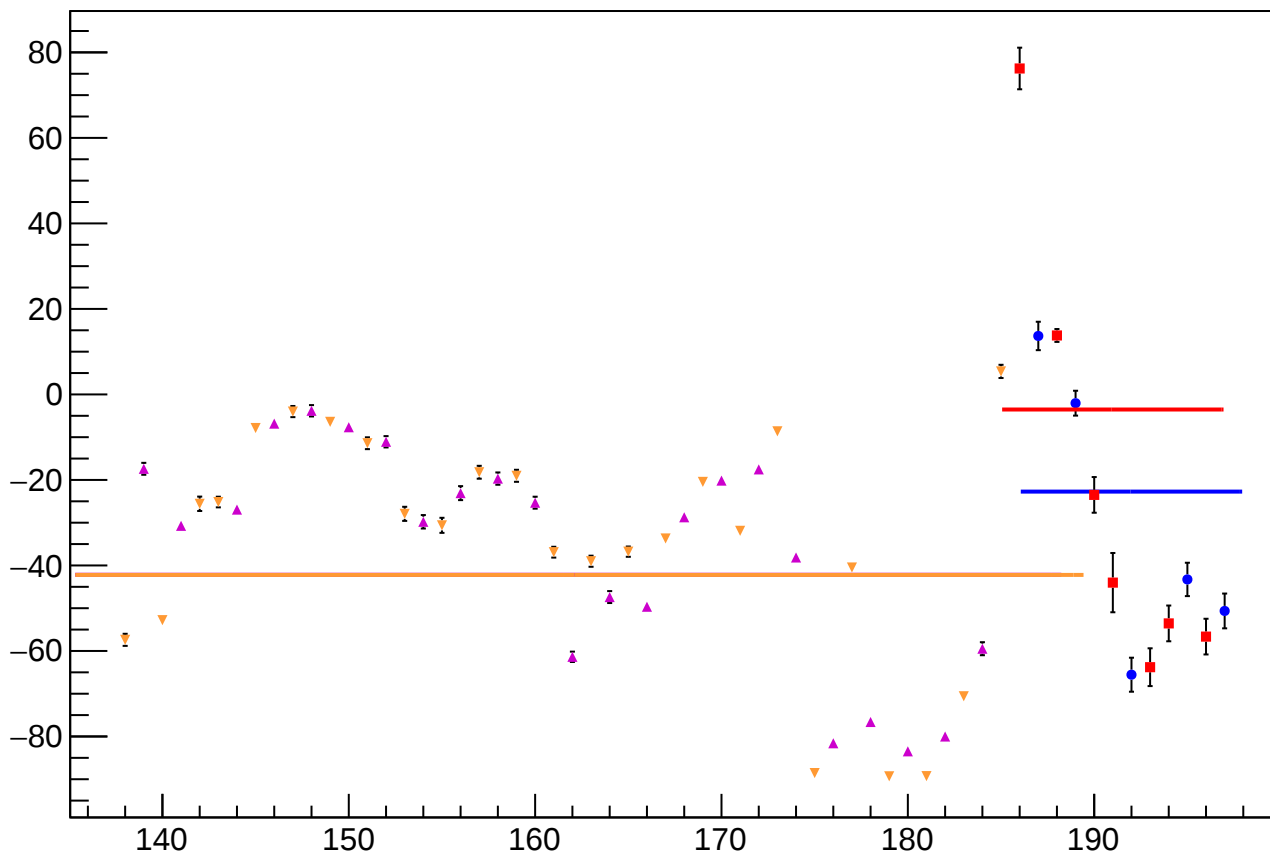
Right: -0.071 $\pm$ 0.028 χ^2 /NDF: 1132.6/47

In: 0.872 $\pm$ 0.012 χ^2 /NDF:1792.1/44

Out: 0.889 $\pm$ 0.012 χ^2 /NDF:2142.5/50

All: 0.881 $\pm$ 0.008 χ^2 /NDF: 3935.7/95

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.728 ± 1.585 $\chi^2/\text{NDF}: 361.3/4$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -3.528 ± 1.174 $\chi^2/\text{NDF}: 948.7/6$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

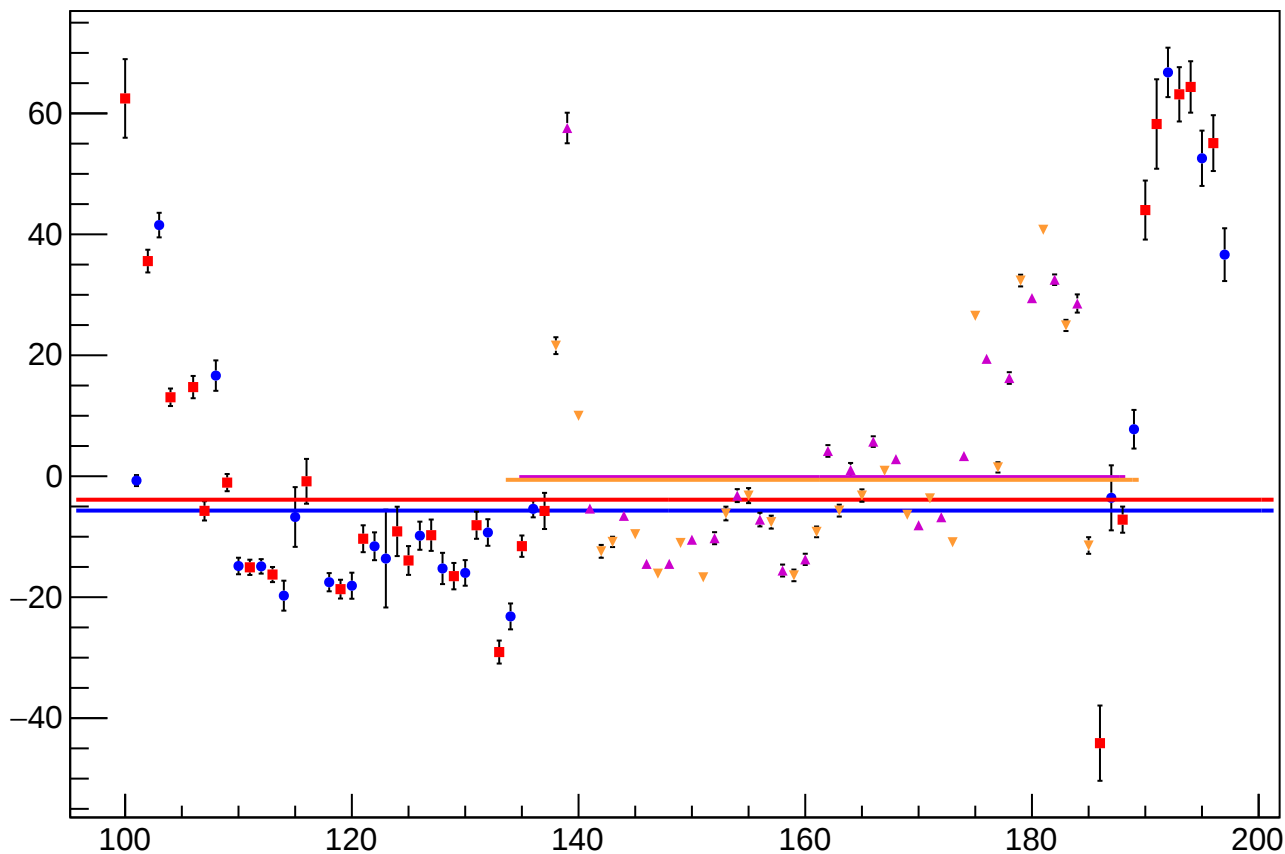
Right: -10.327 ± 0.943 $\chi^2/\text{NDF}: 1404.8/11$

In: -41.785 ± 0.225 $\chi^2/\text{NDF}: 15084.8/27$

Out: -40.876 ± 0.218 $\chi^2/\text{NDF}: 20307.0/31$

All: -41.317 ± 0.157 $\chi^2/\text{NDF}: 35400.1/59$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.677 ± 0.419 χ^2/NDF : 1585.4/21

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

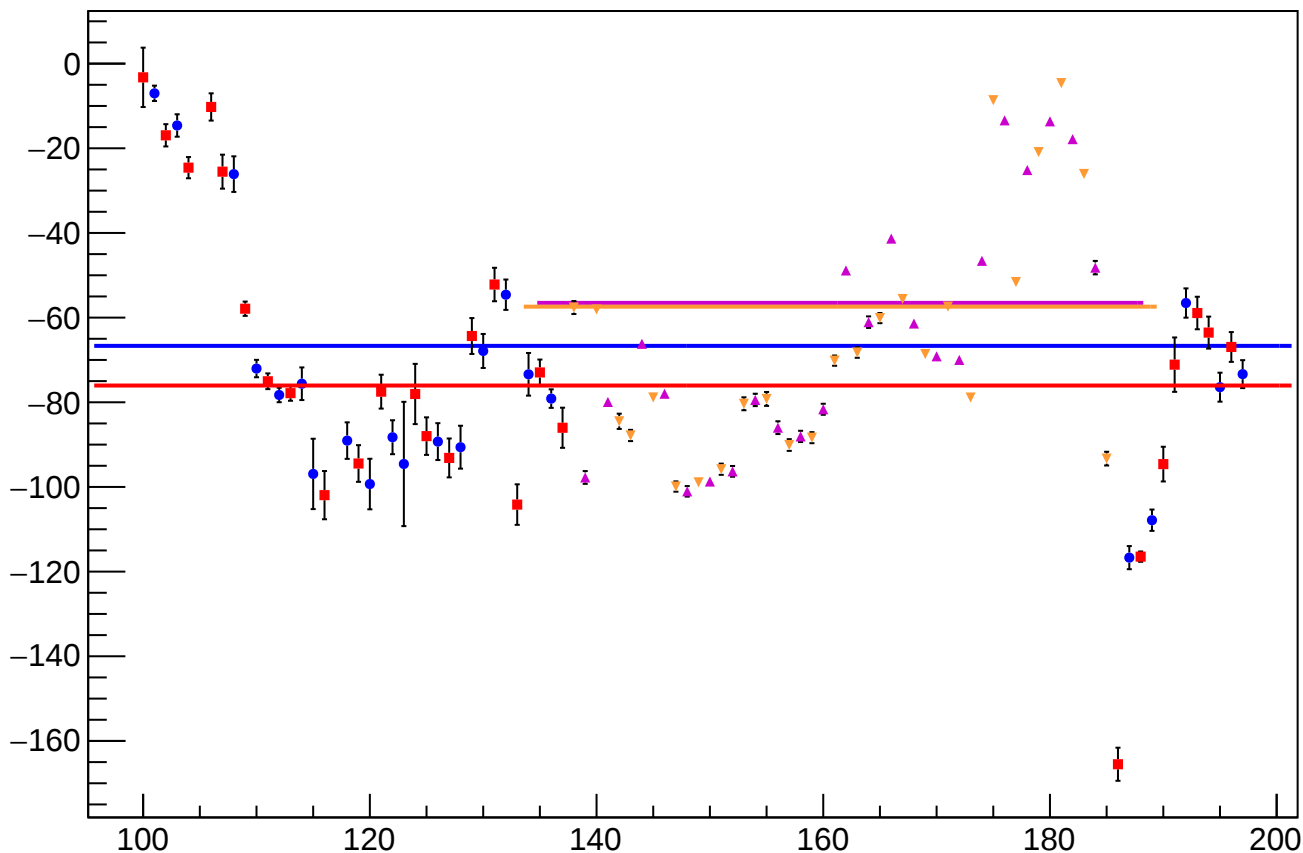
Right: -4.762 ± 0.294 χ^2/NDF : 3771.3/47

In: -0.996 ± 0.165 χ^2/NDF : 8595.2/44

Out: -1.088 ± 0.161 χ^2/NDF : 10981.4/50

All: -1.043 ± 0.115 χ^2/NDF : 19576.7/95

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.674 ± 0.653 $\chi^2/\text{NDF}: 2437.0/21$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$

Right Out: -76.043 ± 0.572 $\chi^2/\text{NDF}: 3555.0/25$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$

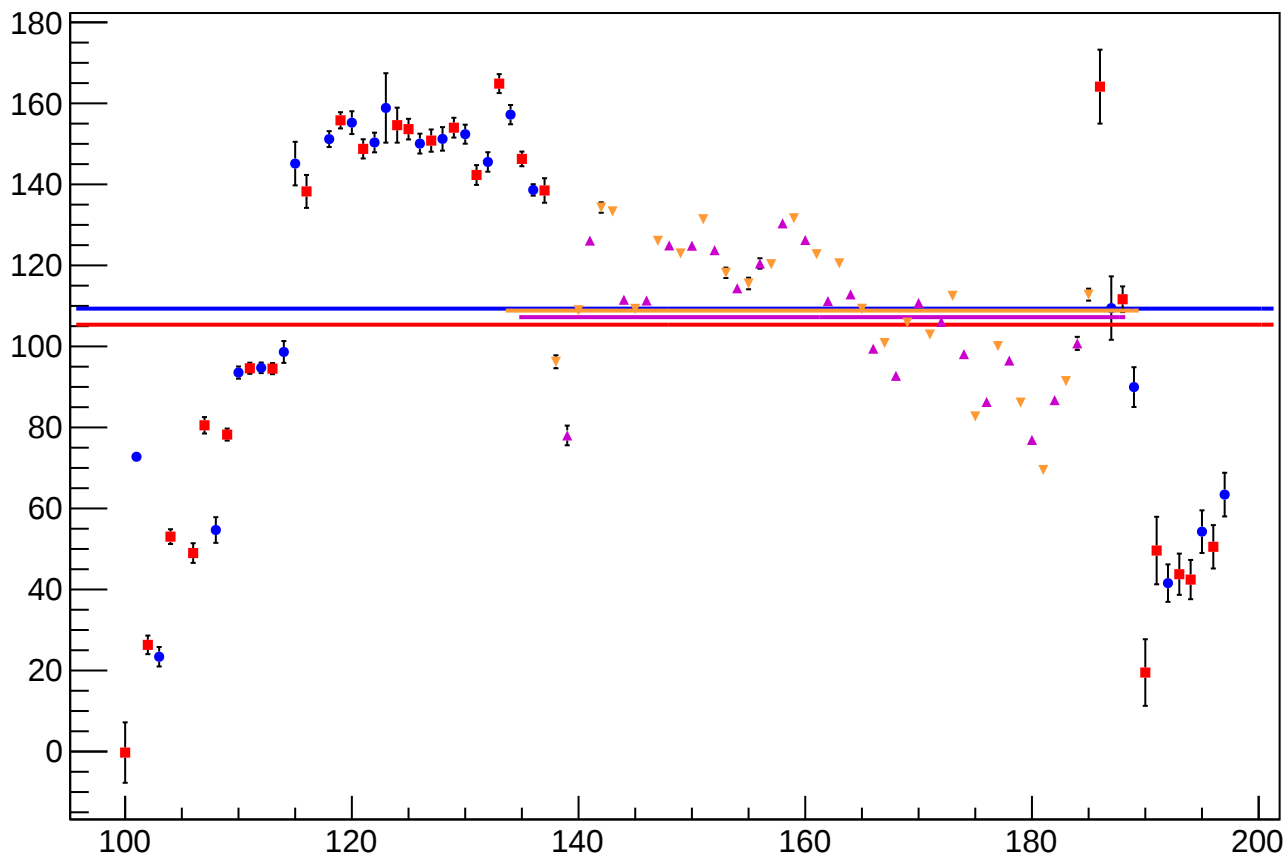
Right: -71.974 ± 0.430 $\chi^2/\text{NDF}: 6108.5/47$

In: -57.614 ± 0.214 $\chi^2/\text{NDF}: 19005.2/44$

Out: -59.873 ± 0.208 $\chi^2/\text{NDF}: 23079.0/50$

All: -58.778 ± 0.149 $\chi^2/\text{NDF}: 42141.4/95$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 109.329 ± 0.480 $\chi^2/\text{NDF}: 6289.6/21$

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 $\chi^2/\text{NDF}: 12998.4/47$

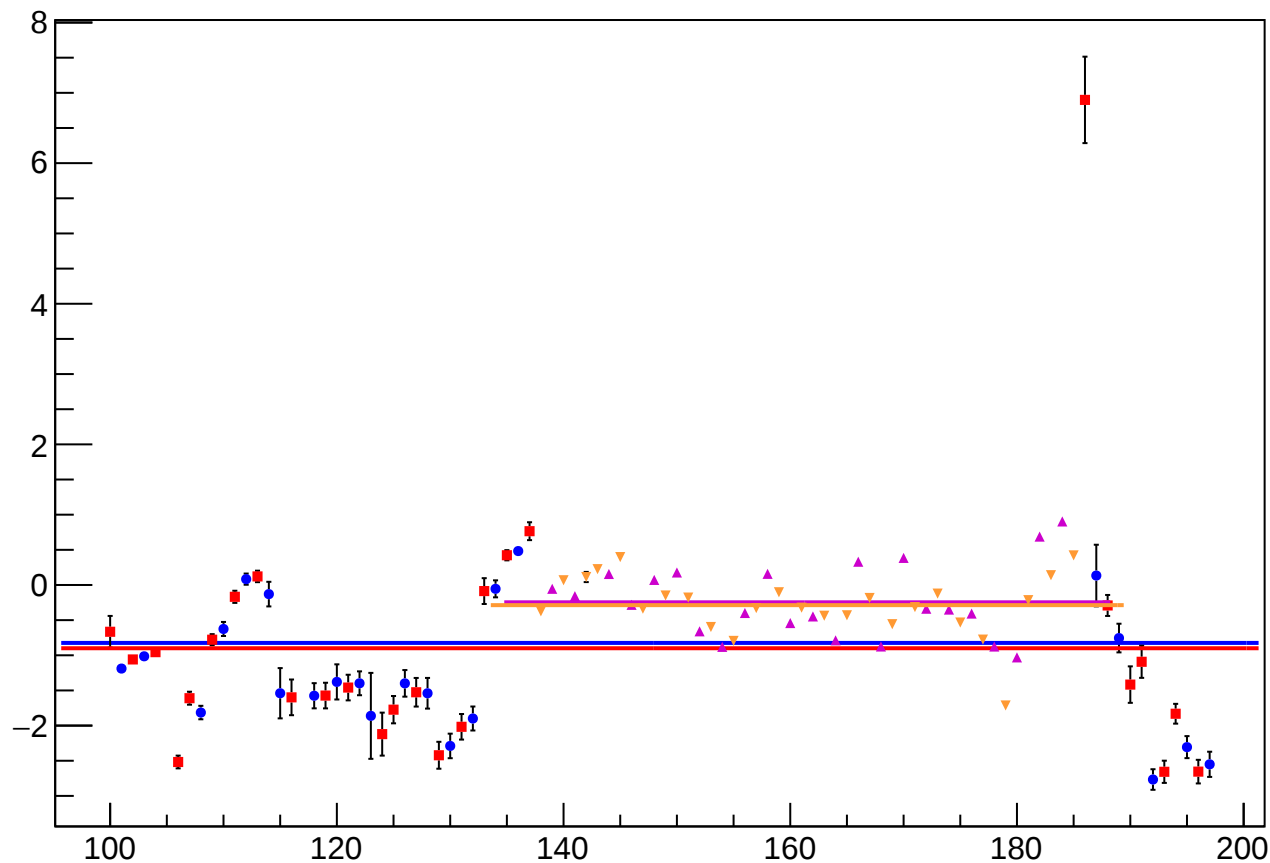
Right: 107.321 ± 0.337 $\chi^2/\text{NDF}: 14000.7/47$

In: 107.543 ± 0.186 $\chi^2/\text{NDF}: 11871.2/44$

Out: 108.332 ± 0.182 $\chi^2/\text{NDF}: 15122.7/50$

All: 107.946 ± 0.130 $\chi^2/\text{NDF}: 27003.1/95$

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.824 ± 0.025 χ^2/NDF : 1378.8/21

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.900 ± 0.023 χ^2/NDF : 1773.6/25

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

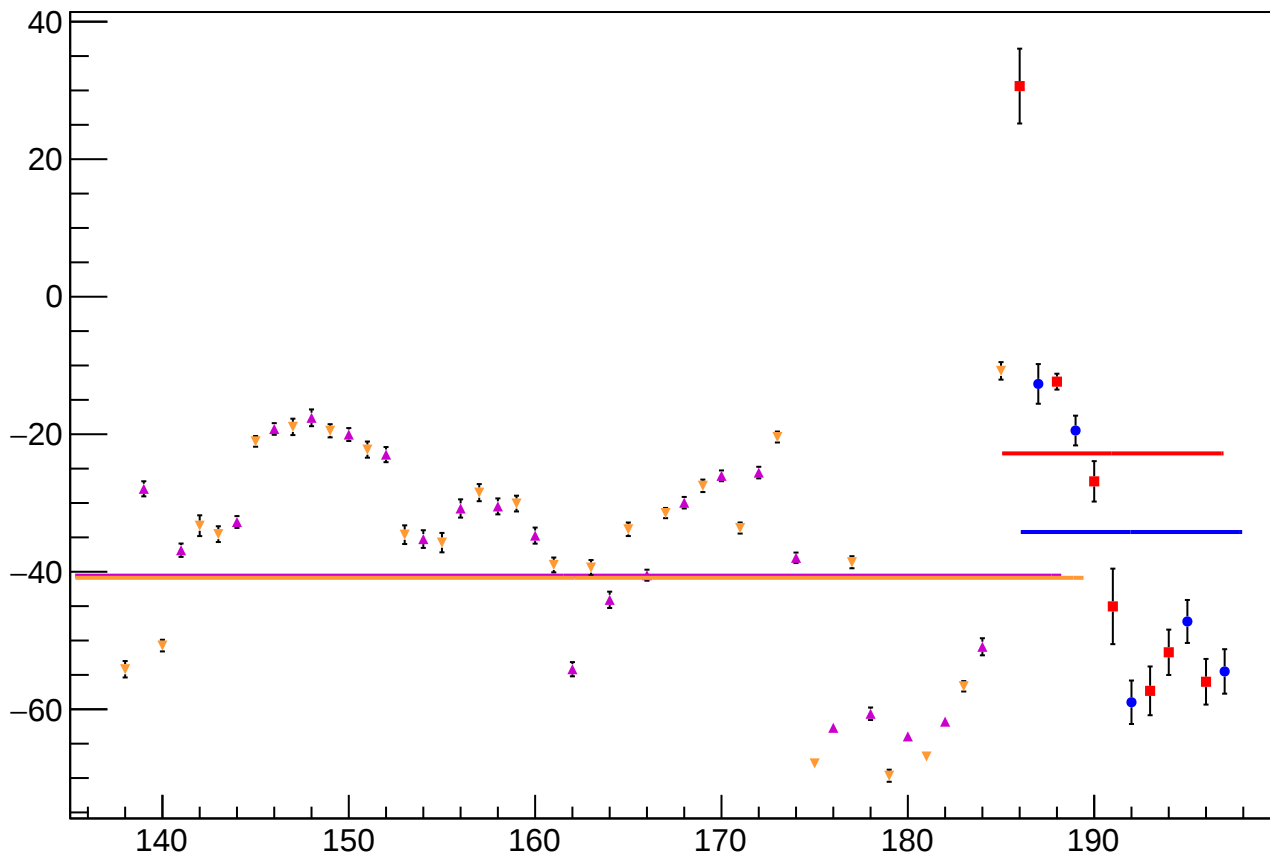
Right: -0.865 ± 0.017 χ^2/NDF : 3157.5/47

In: -0.318 ± 0.009 χ^2/NDF : 4652.0/44

Out: -0.369 ± 0.008 χ^2/NDF : 4441.0/50

All: -0.344 ± 0.006 χ^2/NDF : 9111.2/95

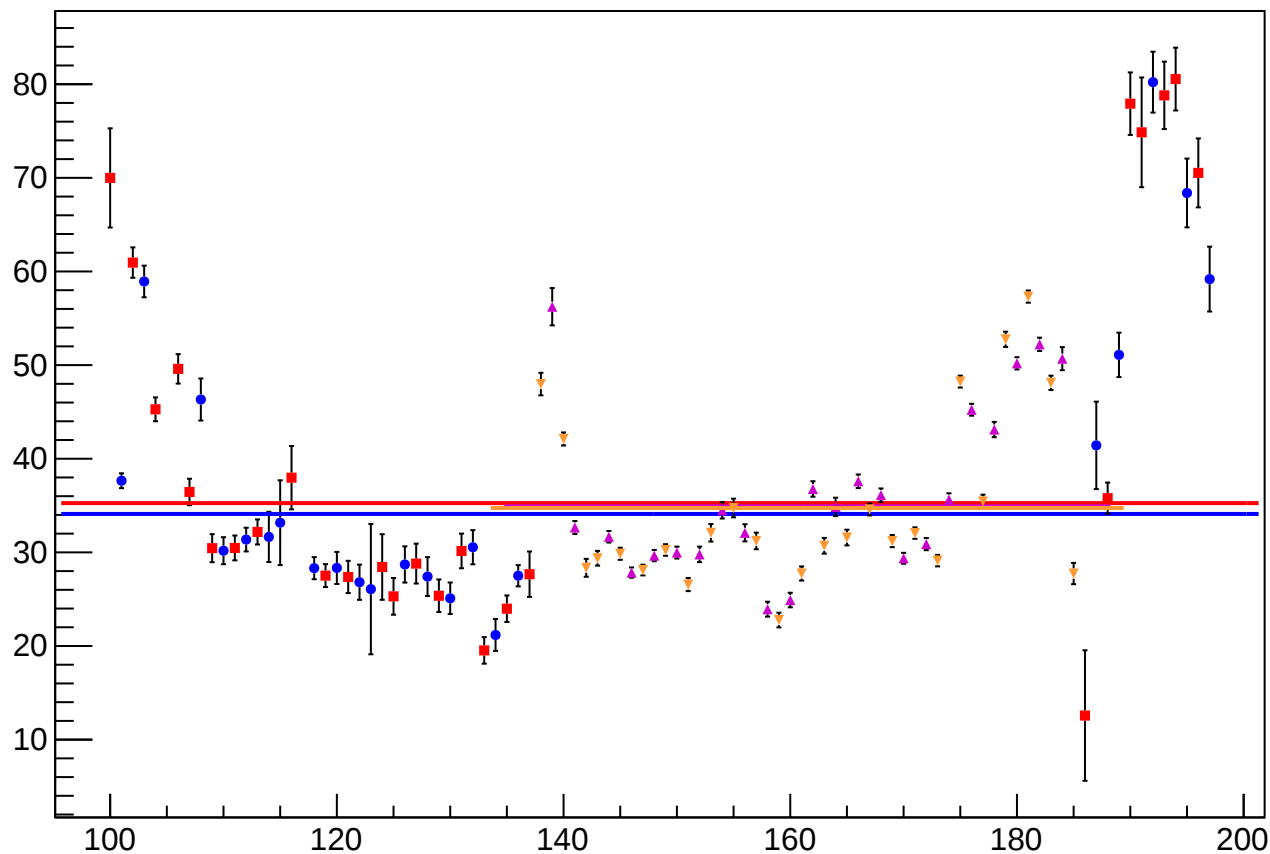
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.220 ± 1.258 χ^2/NDF : 220.3/4
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -22.788 ± 0.915 χ^2/NDF : 468.2/6
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -26.744 ± 0.740 χ^2/NDF : 742.6/11
 In: -40.425 ± 0.188 χ^2/NDF : 7200.0/27
 Out: -40.161 ± 0.182 χ^2/NDF : 9966.9/31
 All: -40.289 ± 0.131 χ^2/NDF : 17167.9/59

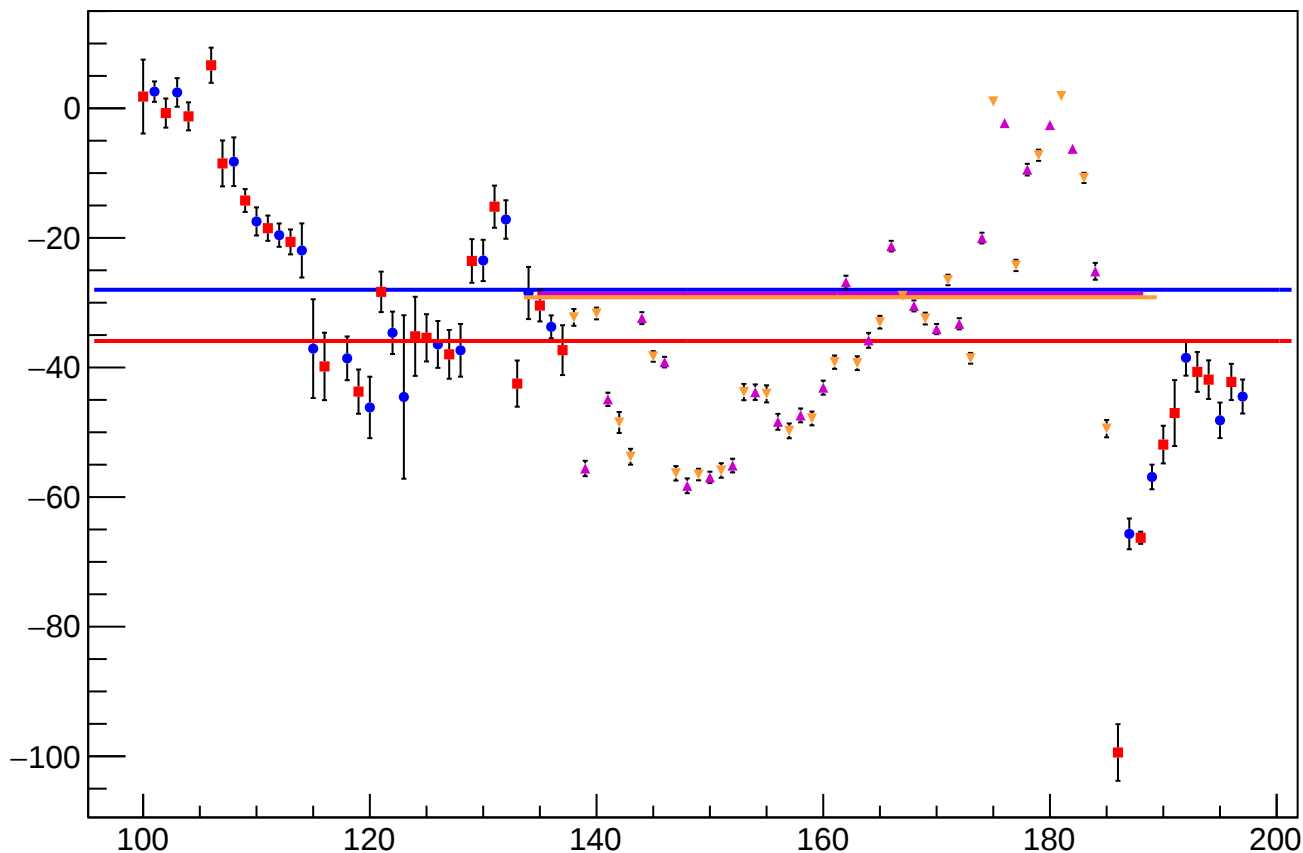
reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.103 ± 0.364 $\chi^2/\text{NDF}: 866.7/21$
 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: 34.686 ± 0.256 $\chi^2/\text{NDF}: 2316.1/47$
 In: 34.801 ± 0.140 $\chi^2/\text{NDF}: 3544.0/44$
 Out: 34.815 ± 0.136 $\chi^2/\text{NDF}: 5139.2/50$
 All: 34.808 ± 0.098 $\chi^2/\text{NDF}: 8683.1/95$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.008 ± 0.568 χ^2/NDF : 1302.6/21

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

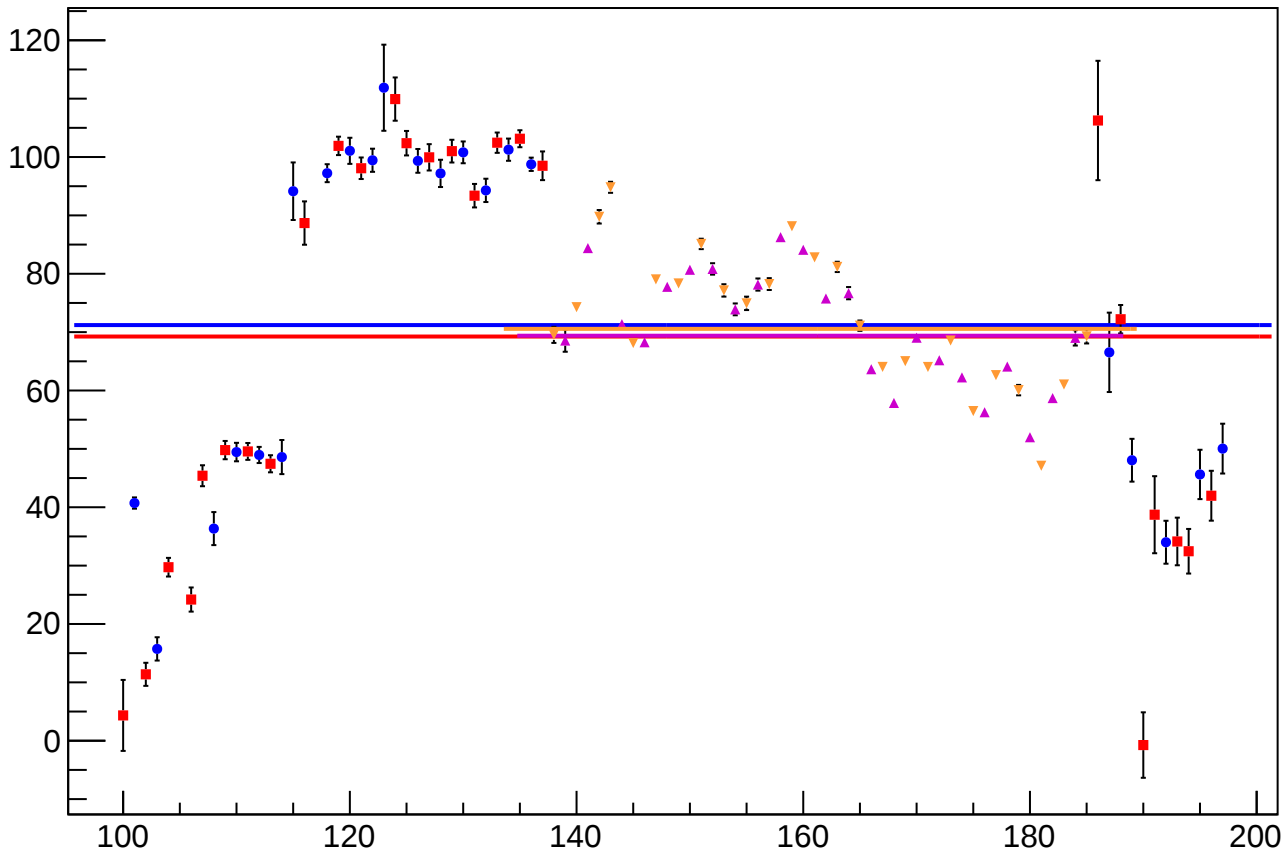
Right: -32.512 ± 0.372 χ^2/NDF : 3949.0/47

In: -28.555 ± 0.180 χ^2/NDF : 10344.5/44

Out: -30.011 ± 0.175 χ^2/NDF : 12825.6/50

All: -29.304 ± 0.125 χ^2/NDF : 23203.8/95

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 71.209 $\pm$ 0.418 χ^2 /NDF: 4885.7/21

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

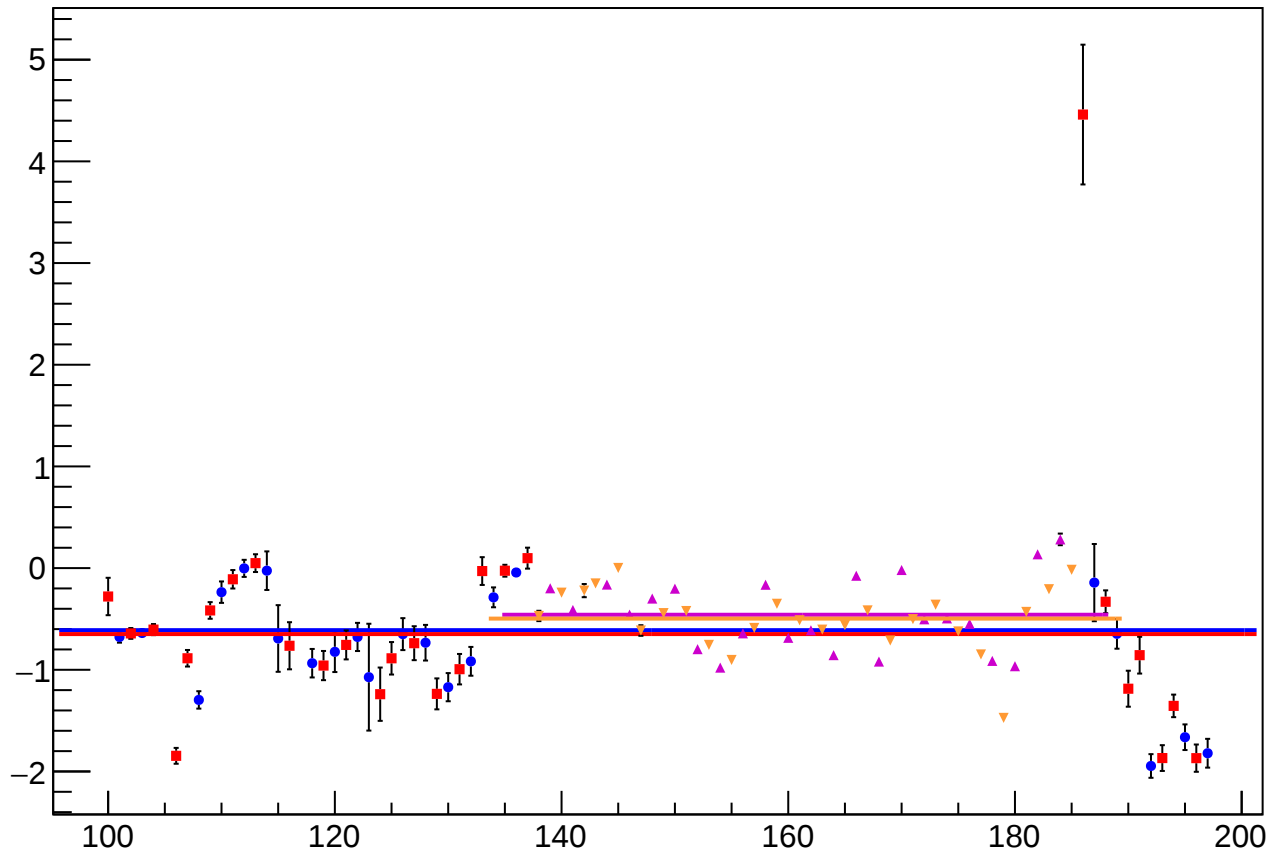
Right: 70.227 $\pm$ 0.296 χ^2 /NDF: 10803.0/47

In: 69.646 $\pm$ 0.158 χ^2 /NDF: 8223.8/44

Out: 70.383 $\pm$ 0.154 χ^2 /NDF: 10504.0/50

All: 70.022 $\pm$ 0.110 χ^2 /NDF: 18738.9/95

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.610 ± 0.021 χ^2/NDF : 603.4/21

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

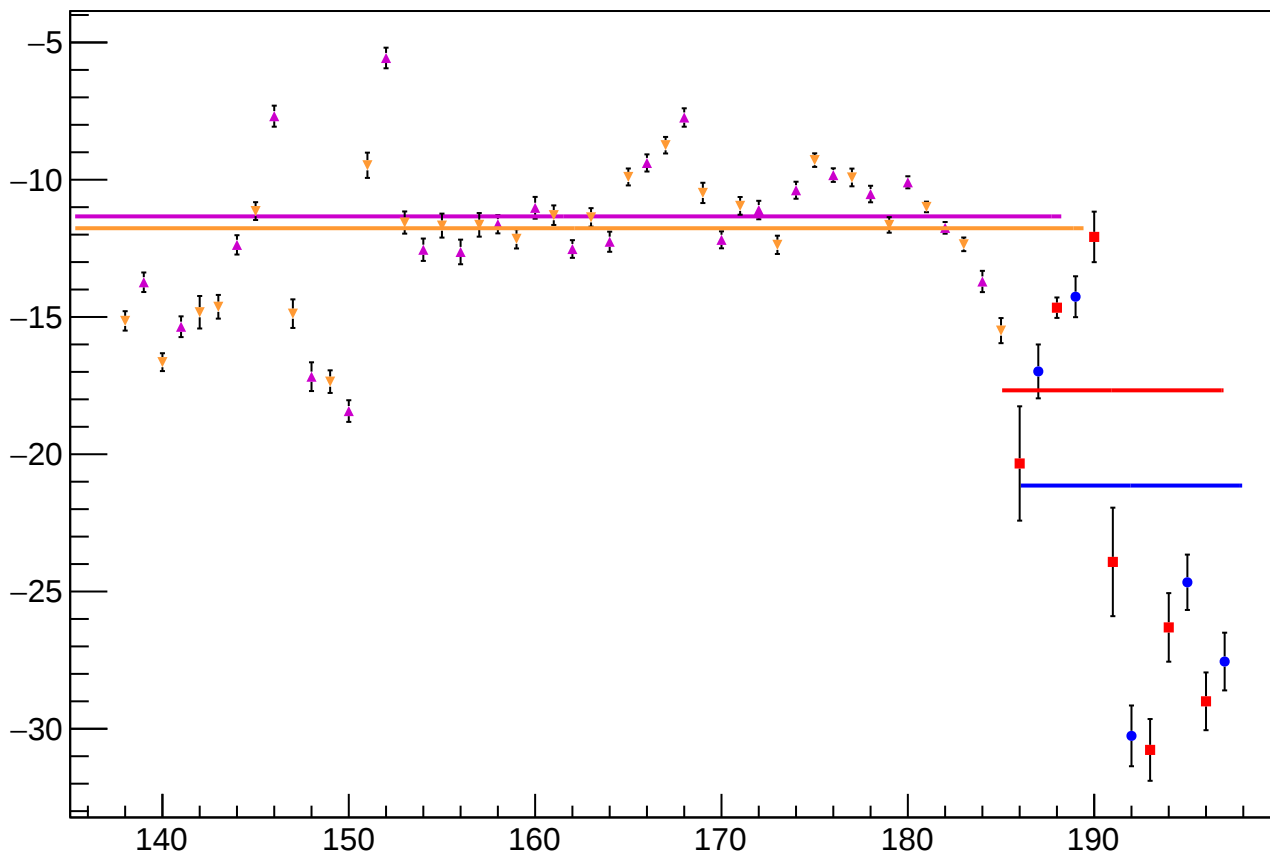
Right: -0.631 ± 0.014 χ^2/NDF : 1471.3/47

In: -0.477 ± 0.007 χ^2/NDF : 2607.2/44

Out: -0.516 ± 0.007 χ^2/NDF : 2366.4/50

All: -0.497 ± 0.005 χ^2/NDF : 4988.6/95

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -21.141 ± 0.425 $\chi^2/\text{NDF}: 220.5/4$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -17.672 ± 0.299 $\chi^2/\text{NDF}: 413.3/6$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$
 Right: -18.819 ± 0.244 $\chi^2/\text{NDF}: 678.5/11$
 In: -11.581 ± 0.067 $\chi^2/\text{NDF}: 2009.6/27$
 Out: -12.047 ± 0.065 $\chi^2/\text{NDF}: 1806.8/31$

All: -11.822 ± 0.047 $\chi^2/\text{NDF}: 3841.3/59$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.686 ± 0.145 χ^2/NDF : 1598.2/21

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

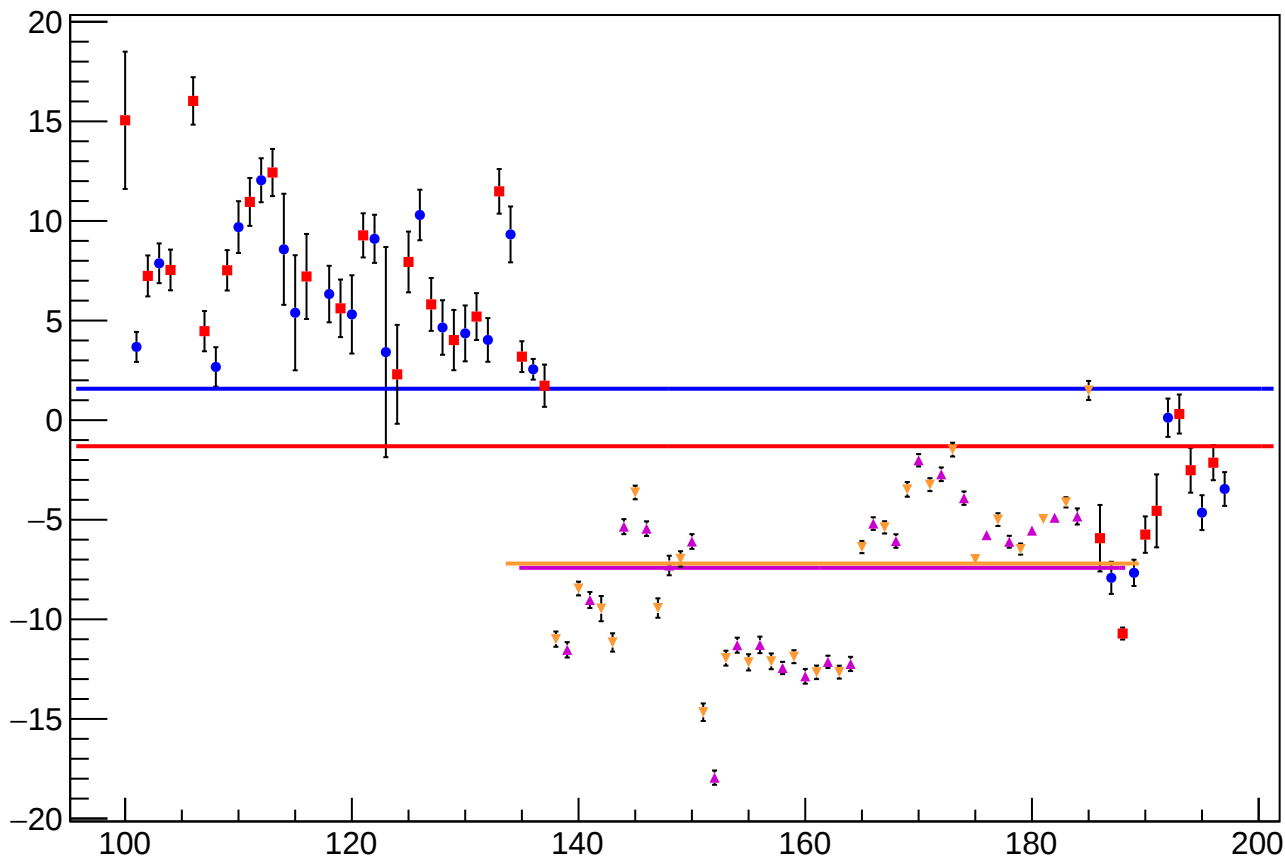
Right: -34.830 ± 0.101 χ^2/NDF : 3728.1/47

In: -30.705 ± 0.052 χ^2/NDF : 3685.5/44

Out: -30.821 ± 0.050 χ^2/NDF : 3860.1/50

All: -30.765 ± 0.036 χ^2/NDF : 7548.2/95

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.577 ± 0.217 $\chi^2/\text{NDF}: 757.8/21$
 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: -0.096 ± 0.141 $\chi^2/\text{NDF}: 3019.7/47$

In: -6.613 ± 0.065 $\chi^2/\text{NDF}: 5446.8/44$
 Out: -6.516 ± 0.063 $\chi^2/\text{NDF}: 6095.2/50$

All: -6.563 ± 0.045 $\chi^2/\text{NDF}: 11543.1/95$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.890 ± 0.165 χ^2/NDF : 2327.8/21

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -4.009 ± 0.164 χ^2/NDF : 2696.4/25

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

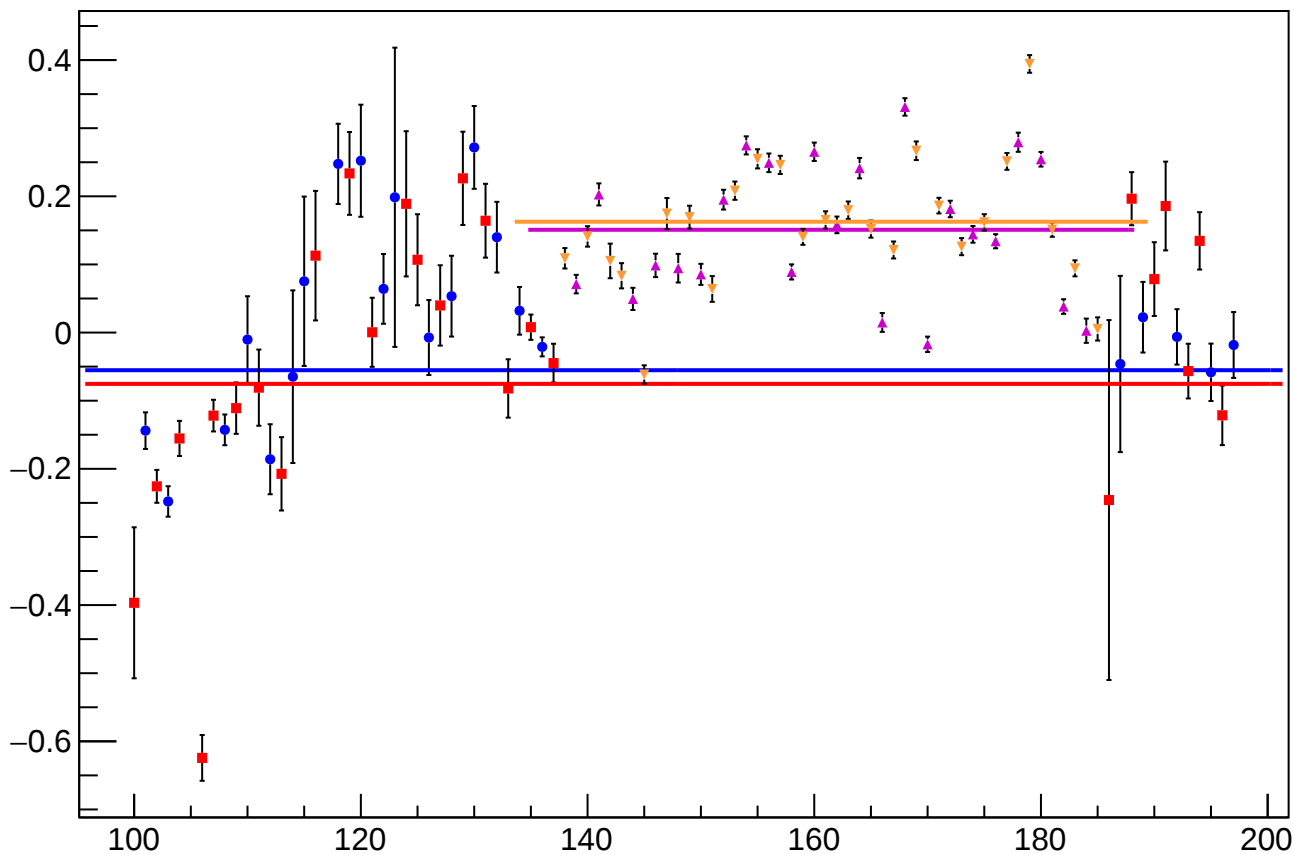
Right: -4.446 ± 0.117 χ^2/NDF : 5038.5/47

In: -8.411 ± 0.058 χ^2/NDF : 4378.1/44

Out: -8.383 ± 0.056 χ^2/NDF : 4379.8/50

All: -8.397 ± 0.040 χ^2/NDF : 8758.1/95

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.055±/0.008 χ^2/NDF : 219.2/21

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

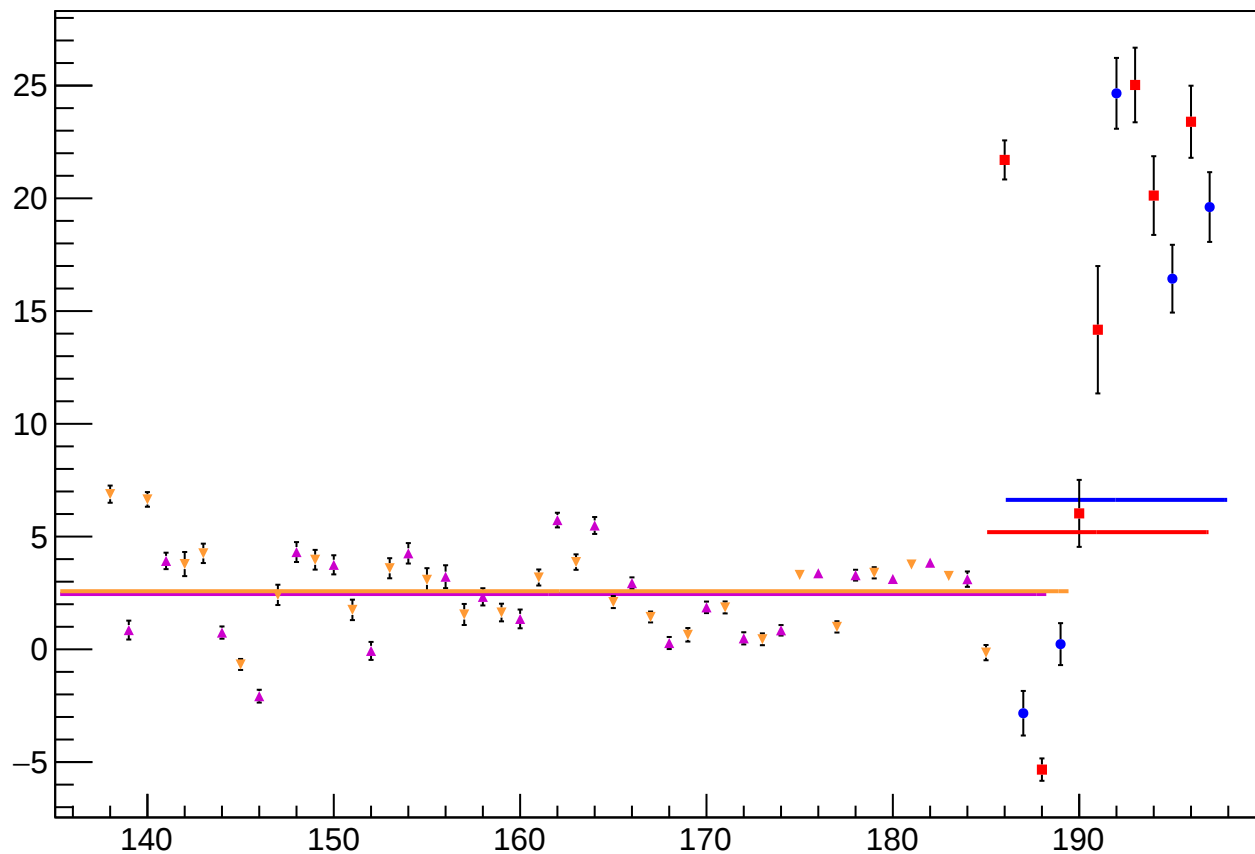
Right: -0.066±/0.005 χ^2/NDF : 766.2/47

In: 0.128±/0.003 χ^2/NDF :2117.3/44

Out: 0.136±/0.003 χ^2/NDF :2415.8/50

All: 0.132±/0.002 χ^2/NDF : 4537.6/95

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.628 ± 0.539 $\chi^2/\text{NDF}: 383.8/4$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 5.197 ± 0.376 $\chi^2/\text{NDF}: 1169.8/6$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

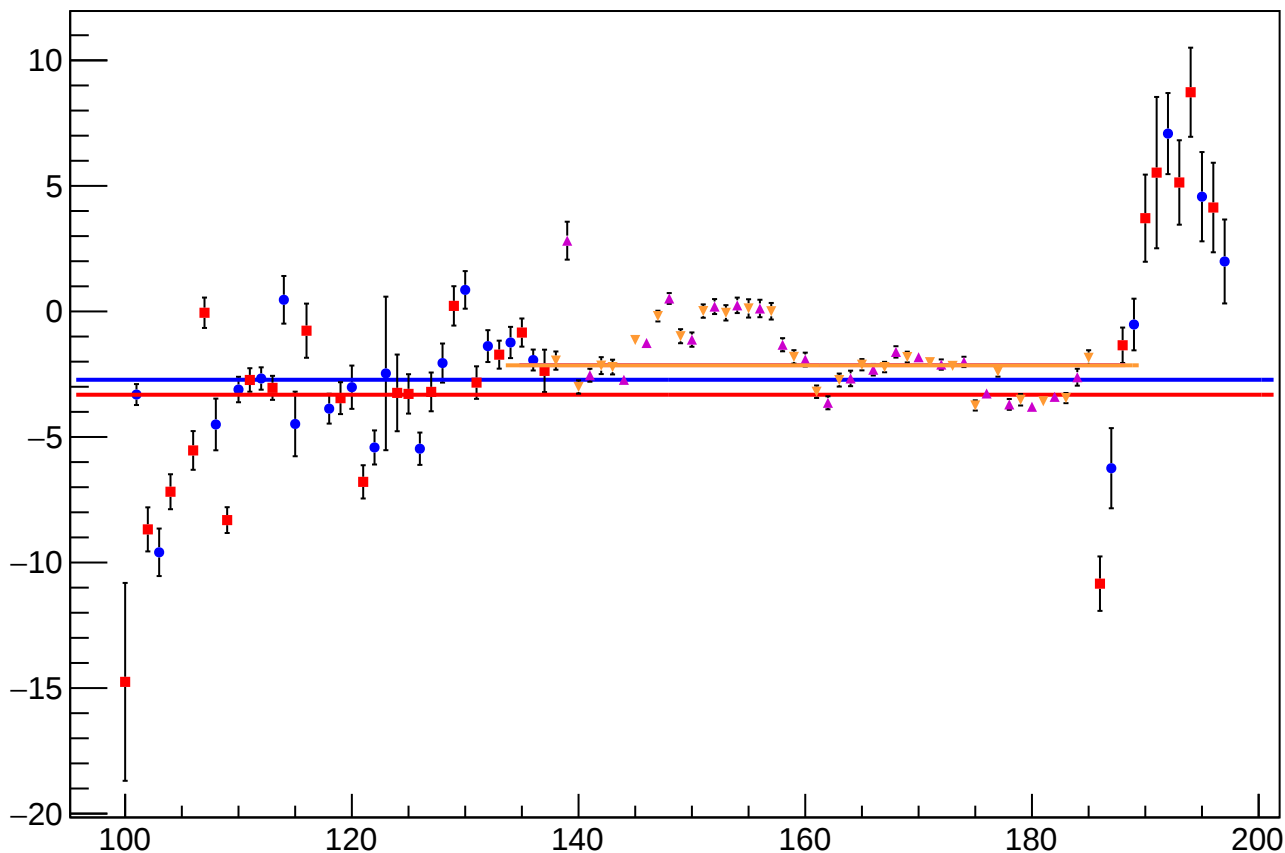
Right: 5.666 ± 0.309 $\chi^2/\text{NDF}: 1558.3/11$

In: 2.502 ± 0.059 $\chi^2/\text{NDF}: 1314.4/27$

Out: 2.638 ± 0.058 $\chi^2/\text{NDF}: 2084.6/31$

All: 2.572 ± 0.041 $\chi^2/\text{NDF}: 3401.6/59$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.721 ± 0.151 χ^2/NDF : 217.7/21

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -3.317 ± 0.147 χ^2/NDF : 463.1/25

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

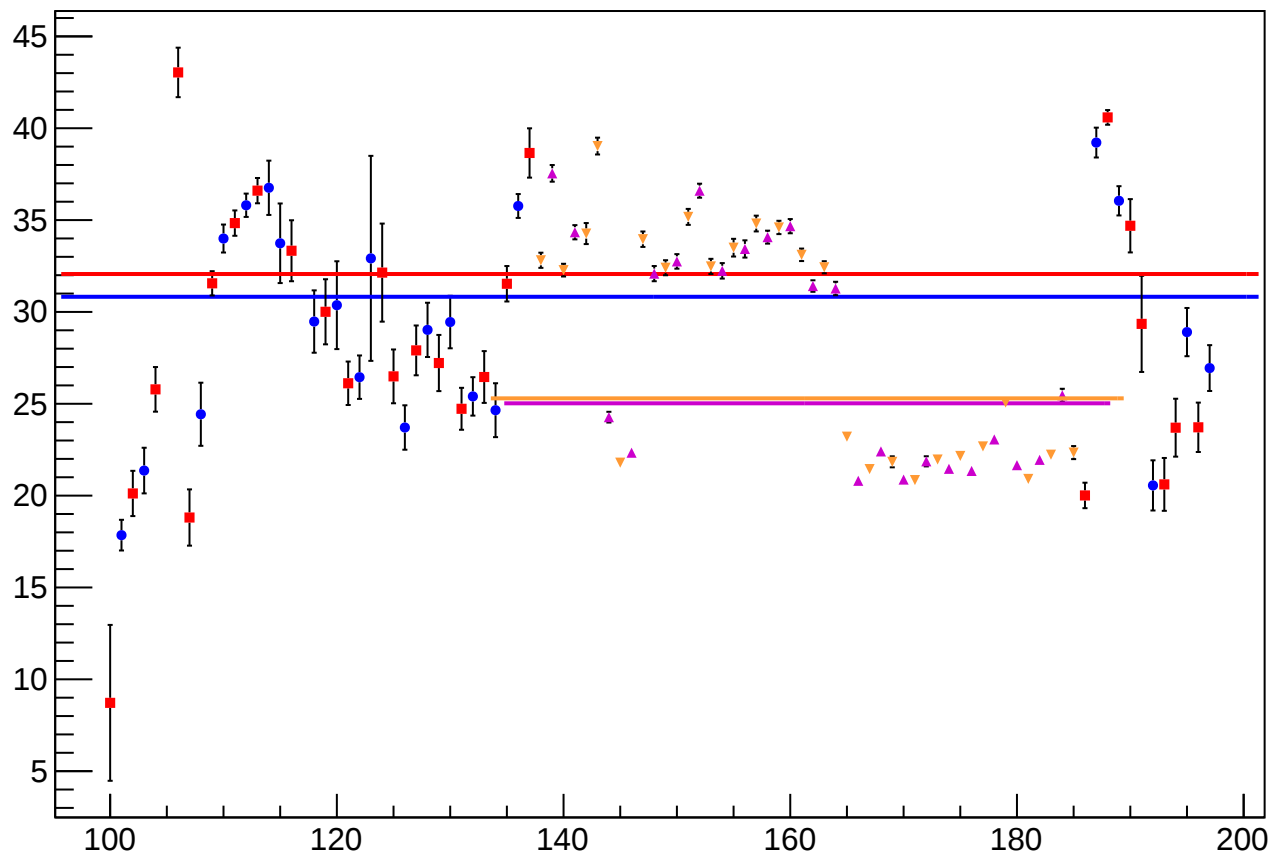
Right: -3.026 ± 0.105 χ^2/NDF : 688.8/47

In: -2.191 ± 0.046 χ^2/NDF : 922.6/44

Out: -2.256 ± 0.045 χ^2/NDF : 1093.6/50

All: -2.224 ± 0.032 χ^2/NDF : 2017.3/95

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.825 $\pm$ 0.231 χ^2 /NDF: 782.3/21

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 32.064 $\pm$ 0.199 χ^2 /NDF: 1385.8/25

Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47

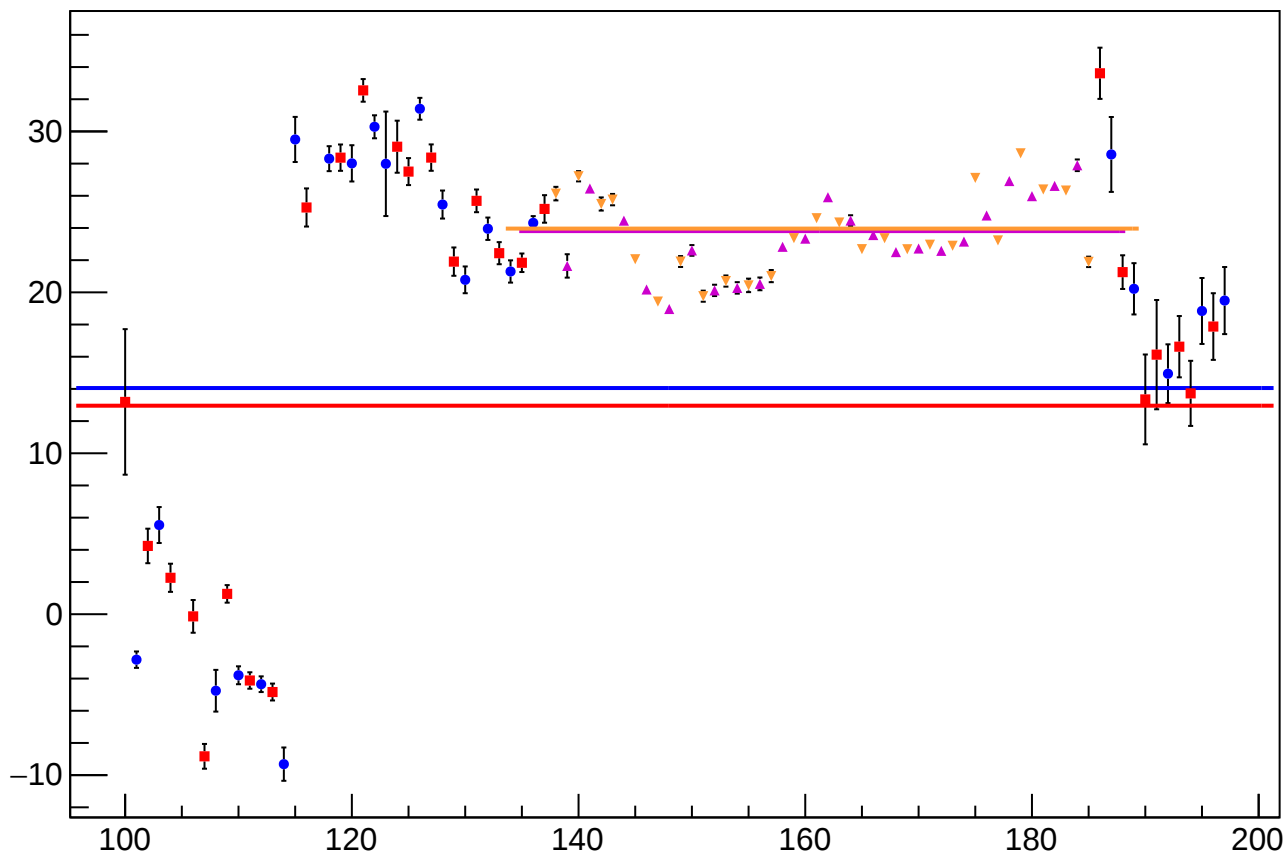
Right: 31.534 $\pm$ 0.151 χ^2 /NDF: 2184.6/47

In: 25.388 $\pm$ 0.058 χ^2 /NDF:8985.4/44

Out: 25.838 $\pm$ 0.056 χ^2 /NDF:10717.2/50

All: 25.618 $\pm$ 0.040 χ^2 /NDF: 19733.6/95

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.054 $\pm$ 0.170 χ^2 /NDF: 7342.9/21

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: 13.501 $\pm$ 0.119 χ^2 /NDF: 14568.9/47

In: 22.907 $\pm$ 0.052 χ^2 /NDF:12104.0/44

Out: 22.964 $\pm$ 0.051 χ^2 /NDF:13015.9/50

All: 22.936 $\pm$ 0.036 χ^2 /NDF: 25120.5/95

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.219 ± 0.009 $\chi^2/\text{NDF}: 901.1/21$

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 $\chi^2/\text{NDF}: 616.6/47$

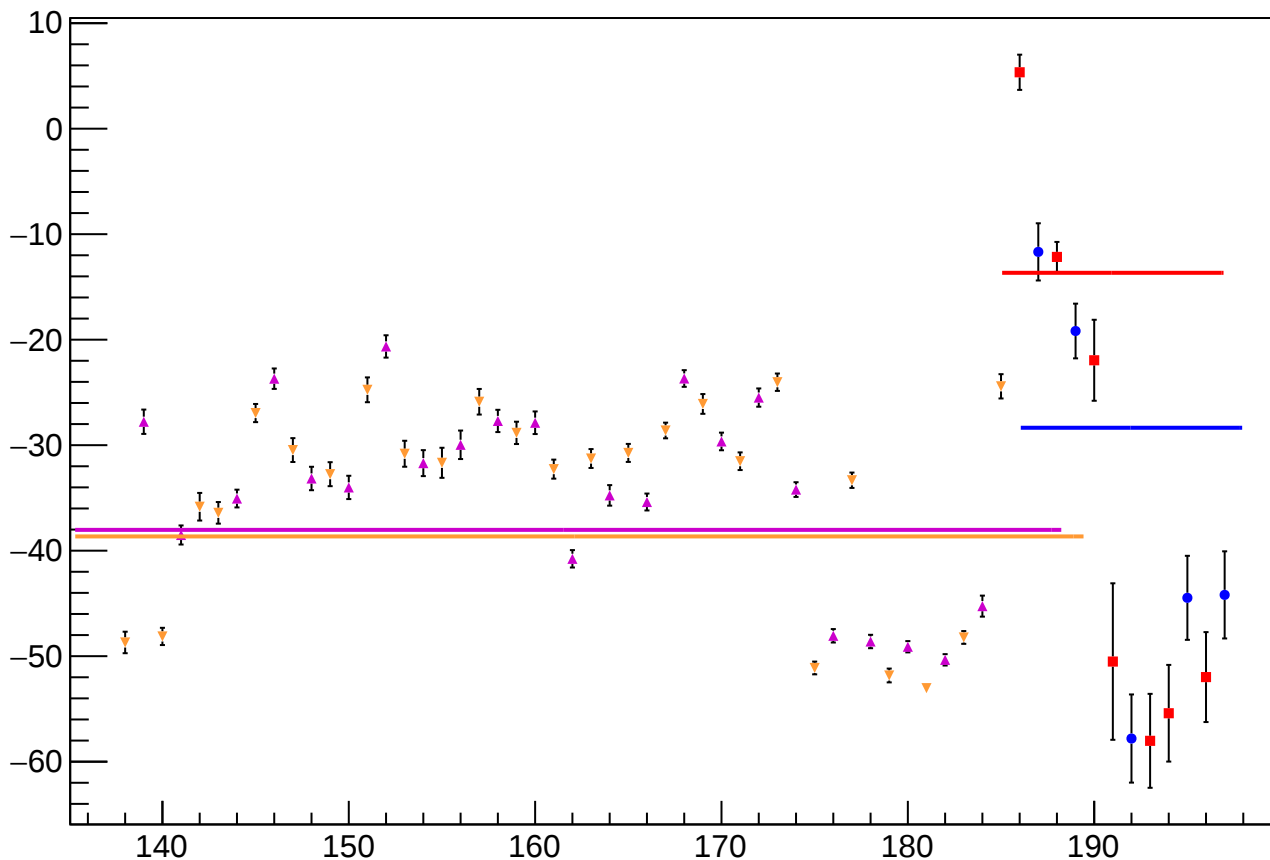
Right: 0.190 ± 0.006 $\chi^2/\text{NDF}: 4494.3/47$

In: -0.084 ± 0.002 $\chi^2/\text{NDF}: 2442.2/44$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4805.3/50$

All: -0.089 ± 0.002 $\chi^2/\text{NDF}: 7255.7/95$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.349 ± 1.468 $\chi^2/\text{NDF}: 131.1/4$
 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 $\chi^2/\text{NDF}: 7175.7/47$

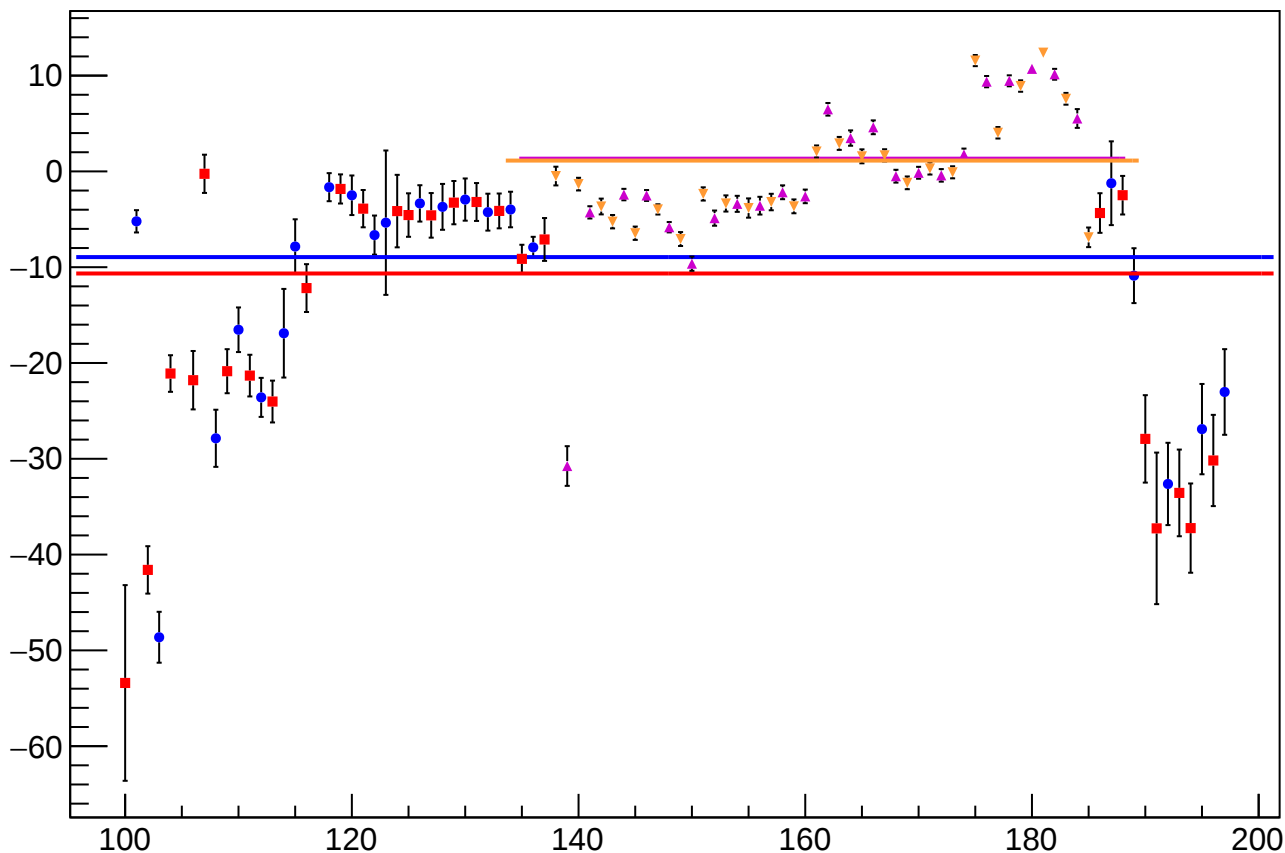
Right: -18.036 ± 0.801 $\chi^2/\text{NDF}: 624.6/11$

In: -37.894 ± 0.172 $\chi^2/\text{NDF}: 3265.9/27$

Out: -37.892 ± 0.166 $\chi^2/\text{NDF}: 5162.4/31$

All: -37.893 ± 0.120 $\chi^2/\text{NDF}: 8428.3/59$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.945 ± 0.451 χ^2/NDF : 468.4/21

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

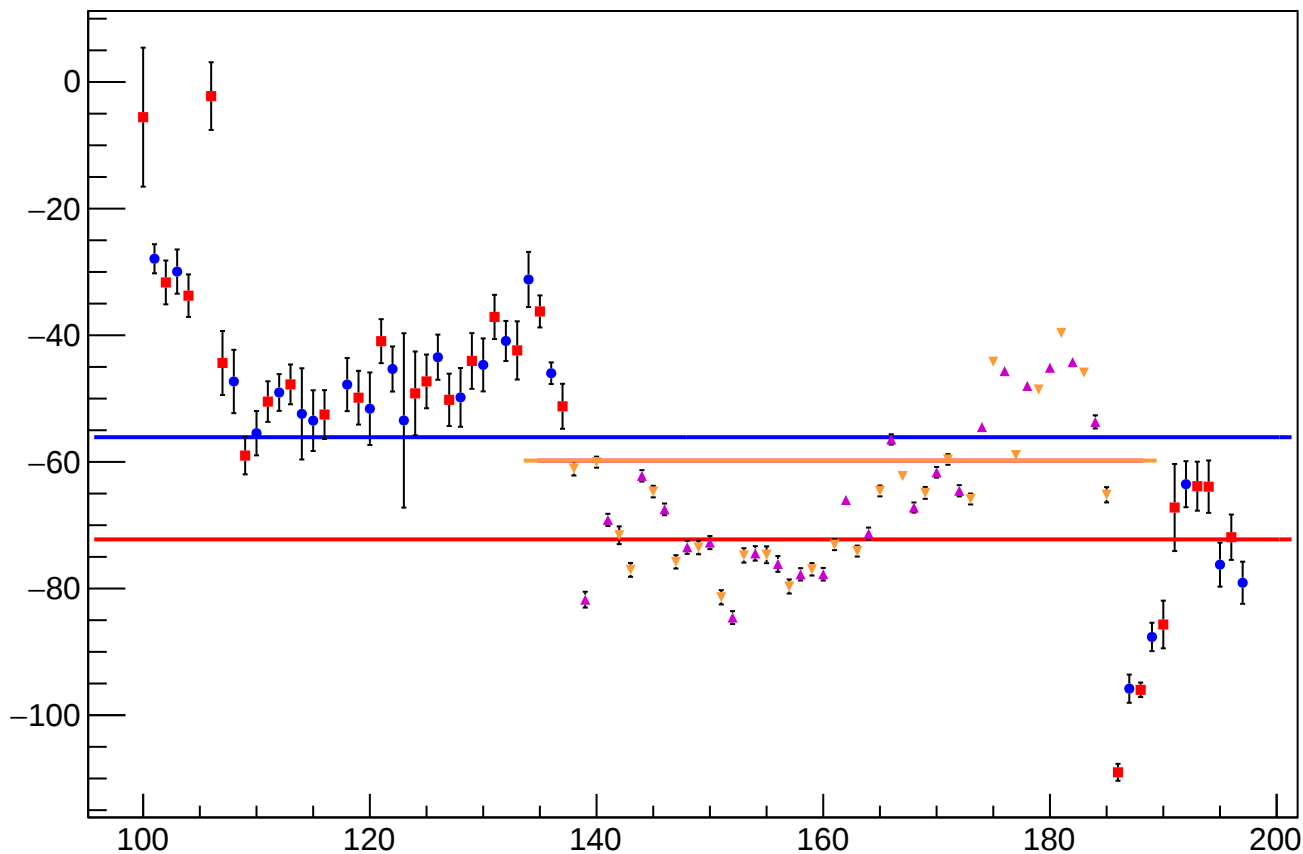
Right: -9.793 ± 0.320 χ^2/NDF : 1031.9/47

In: 0.428 ± 0.134 χ^2/NDF : 2990.0/44

Out: 0.165 ± 0.130 χ^2/NDF : 2970.6/50

All: 0.293 ± 0.093 χ^2/NDF : 5962.6/95

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.100 $\pm$ 0.695 χ^2 /NDF: 943.6/21

Left Out: -59.789 $\pm$ 0.170 χ^2 /NDF: 5837.7/24

Right Out: -72.238 $\pm$ 0.583 χ^2 /NDF: 2474.5/25

Left In: -59.802 $\pm$ 0.173 χ^2 /NDF: 5217.5/22

Left: -59.795 $\pm$ 0.121 χ^2 /NDF: 11055.3/47

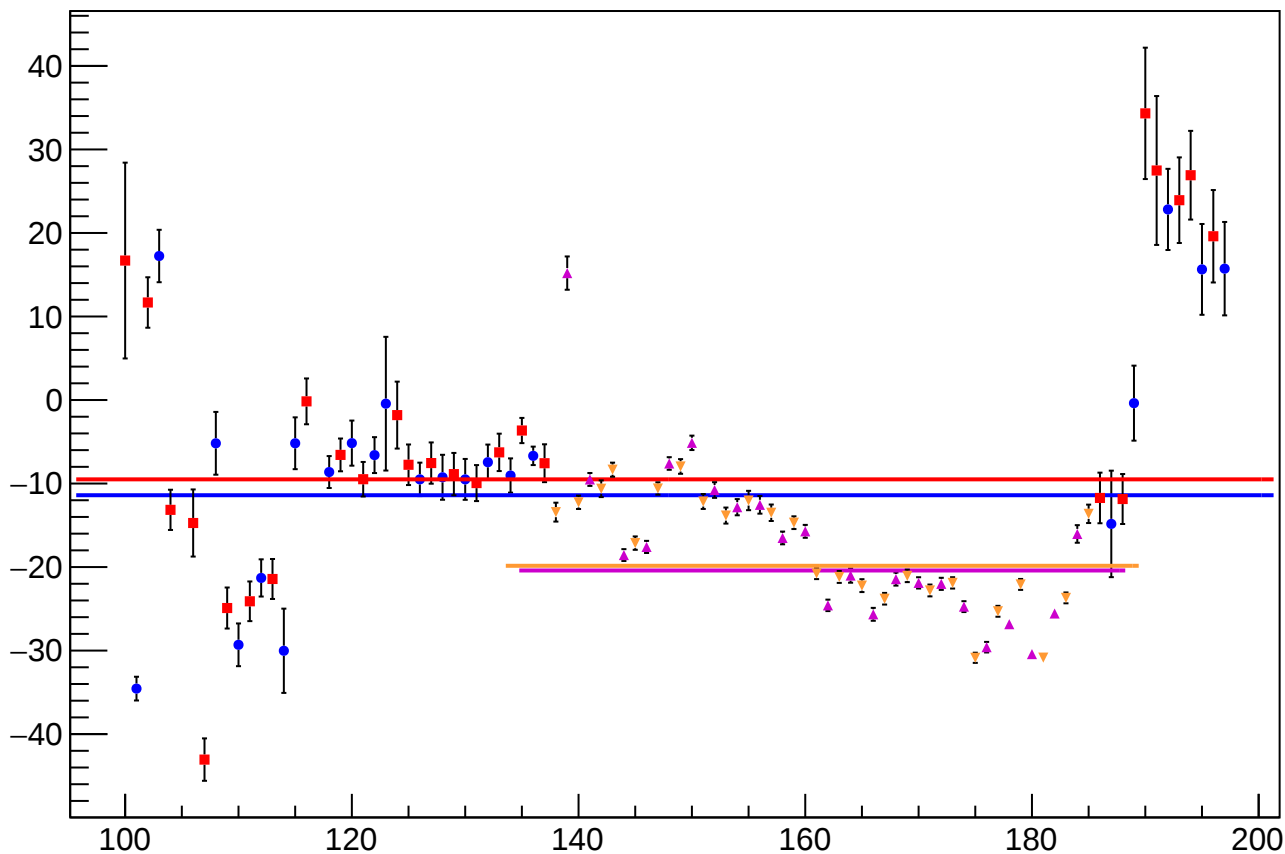
Right: -65.568 $\pm$ 0.447 χ^2 /NDF: 3734.8/47

In: -59.585 $\pm$ 0.168 χ^2 /NDF: 6187.9/44

Out: -60.765 $\pm$ 0.163 χ^2 /NDF: 8732.3/50

All: -60.192 $\pm$ 0.117 χ^2 /NDF: 14945.6/95

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

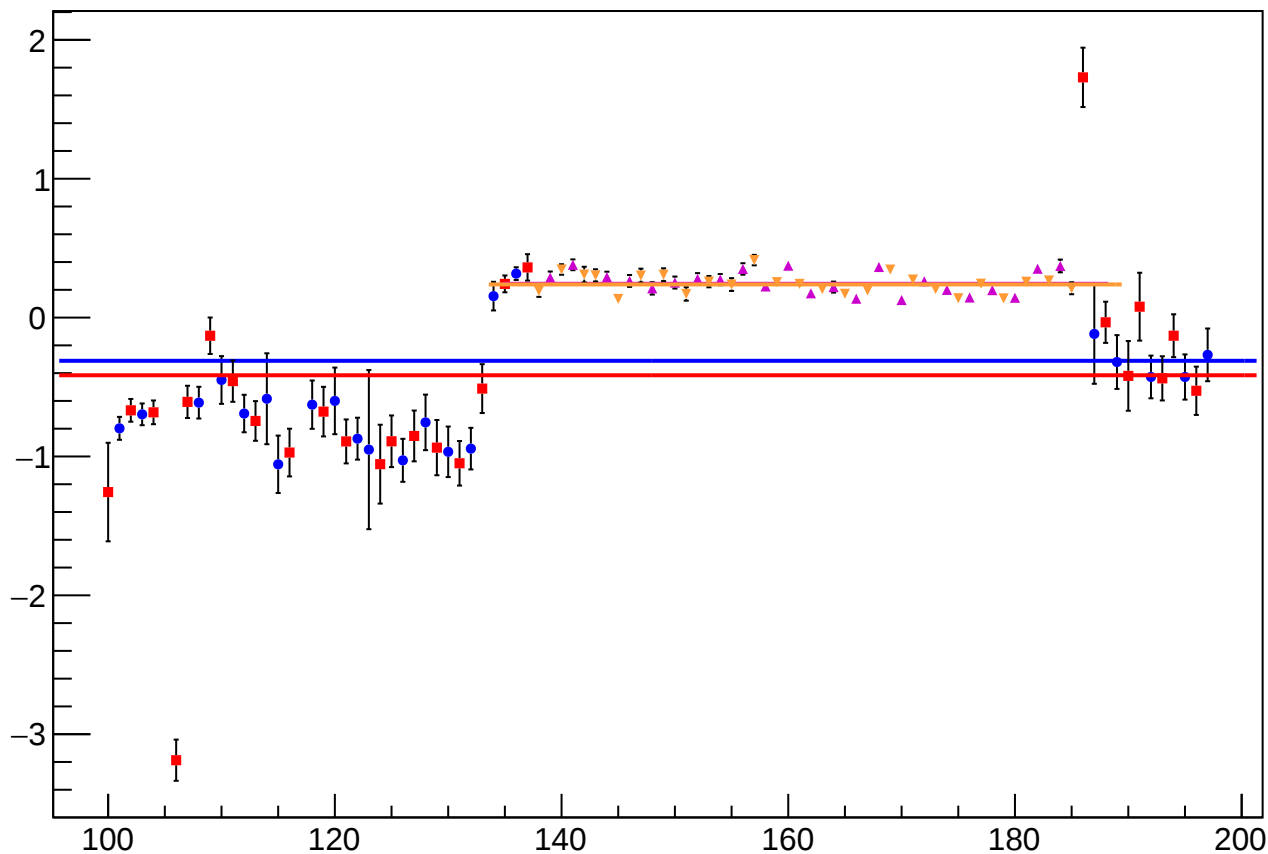


Right In: -11.399 ± 0.511 $\chi^2/\text{NDF}: 581.4/21$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -9.499 ± 0.527 $\chi^2/\text{NDF}: 537.9/25$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -10.477 ± 0.367 $\chi^2/\text{NDF}: 1126.0/47$
 In: -19.636 ± 0.150 $\chi^2/\text{NDF}: 3167.5/44$
 Out: -19.044 ± 0.147 $\chi^2/\text{NDF}: 2825.4/50$

All: -19.334 ± 0.105 $\chi^2/\text{NDF}: 6000.9/95$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.311 ± 0.026 χ^2/NDF : 373.1/21

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

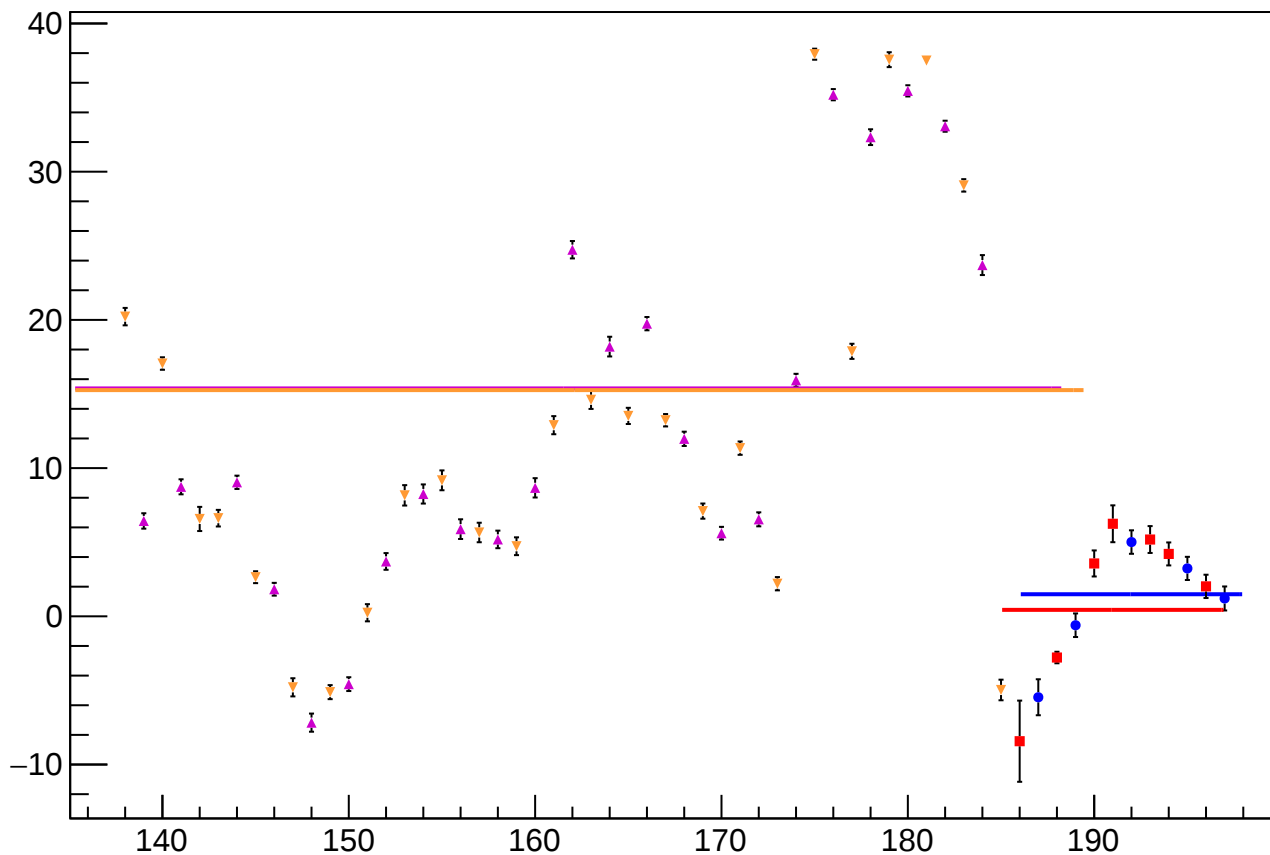
Right: -0.363 ± 0.019 χ^2/NDF : 1129.2/47

In: 0.205 ± 0.007 χ^2/NDF : 927.9/44

Out: 0.196 ± 0.007 χ^2/NDF : 1414.7/50

All: 0.200 ± 0.005 χ^2/NDF : 2343.4/95

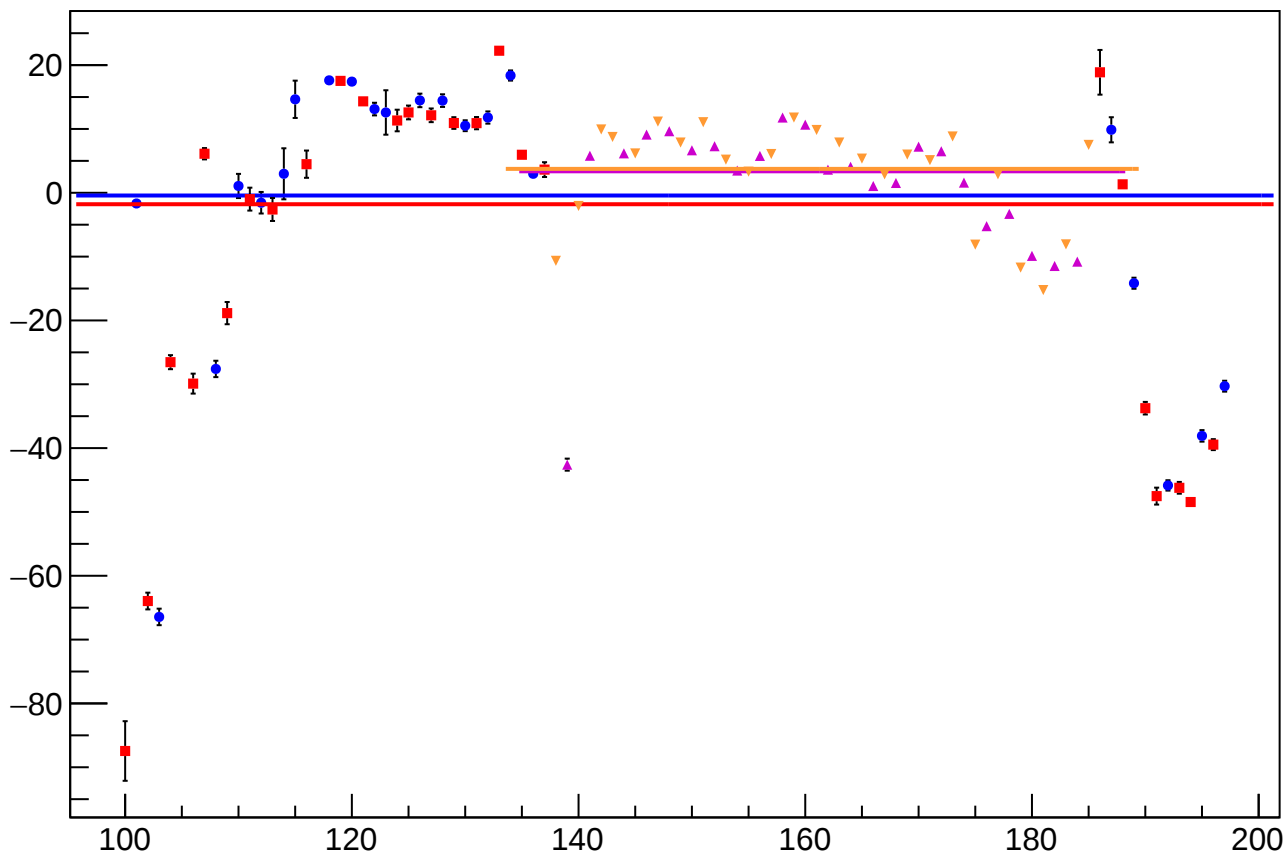
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.490 $\pm$ 0.378 χ^2 /NDF: 64.5/4
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 0.436 $\pm$ 0.275 χ^2 /NDF: 168.6/6
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 0.802 $\pm$ 0.222 χ^2 /NDF: 238.2/11
 In: 14.419 $\pm$ 0.099 χ^2 /NDF:17592.7/27
 Out: 13.520 $\pm$ 0.094 χ^2 /NDF:21902.4/31
 All: 13.948 $\pm$ 0.068 χ^2 /NDF: 39538.2/59

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.427 ± 0.194 χ^2/NDF : 13053.5/21

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -1.793 ± 0.180 χ^2/NDF : 19108.3/25

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

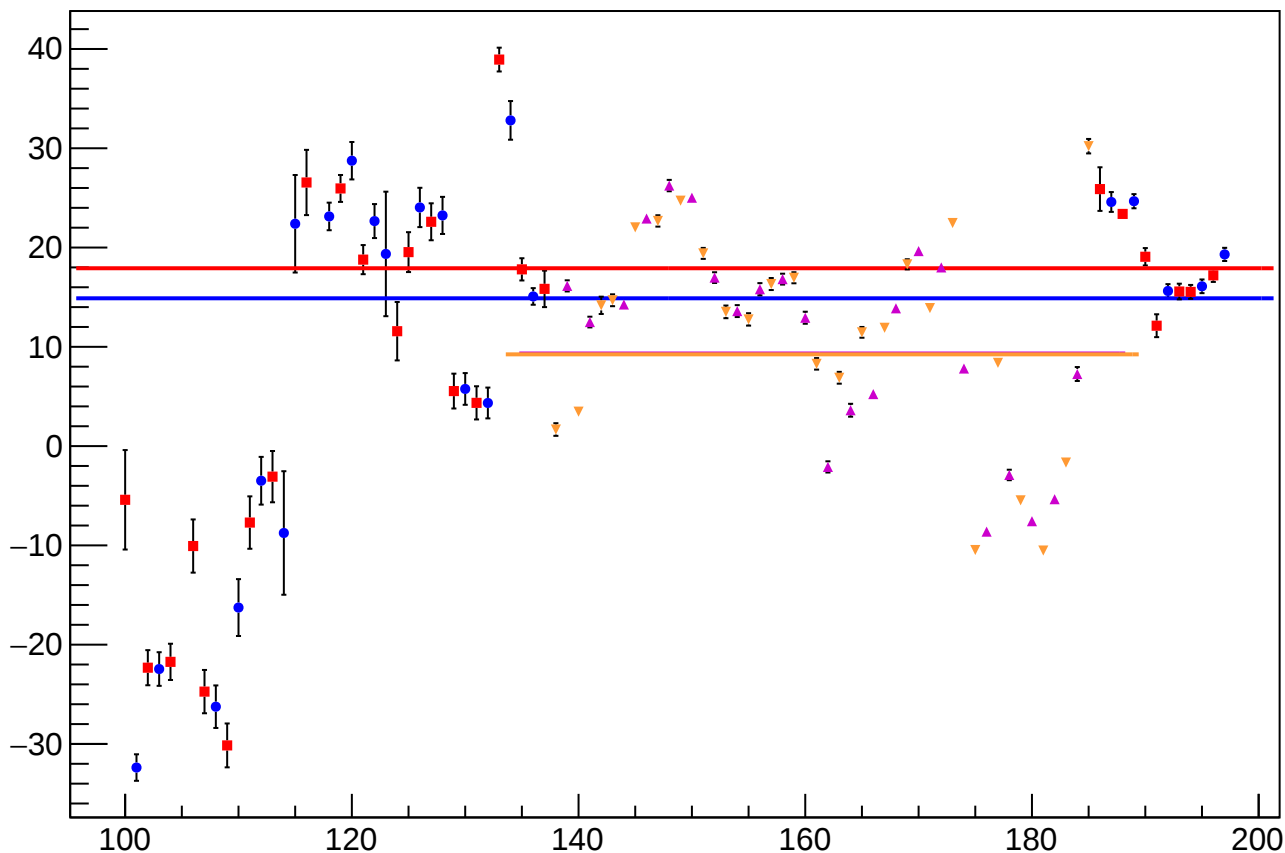
Right: -1.159 ± 0.132 χ^2/NDF : 32188.5/47

In: 2.797 ± 0.075 χ^2/NDF : 21906.8/44

Out: 2.857 ± 0.072 χ^2/NDF : 29149.3/50

All: 2.828 ± 0.052 χ^2/NDF : 51056.5/95

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.888 $\pm$ 0.257 χ^2 /NDF: 2948.8/21

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.914 $\pm$ 0.204 χ^2 /NDF: 2976.8/25

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

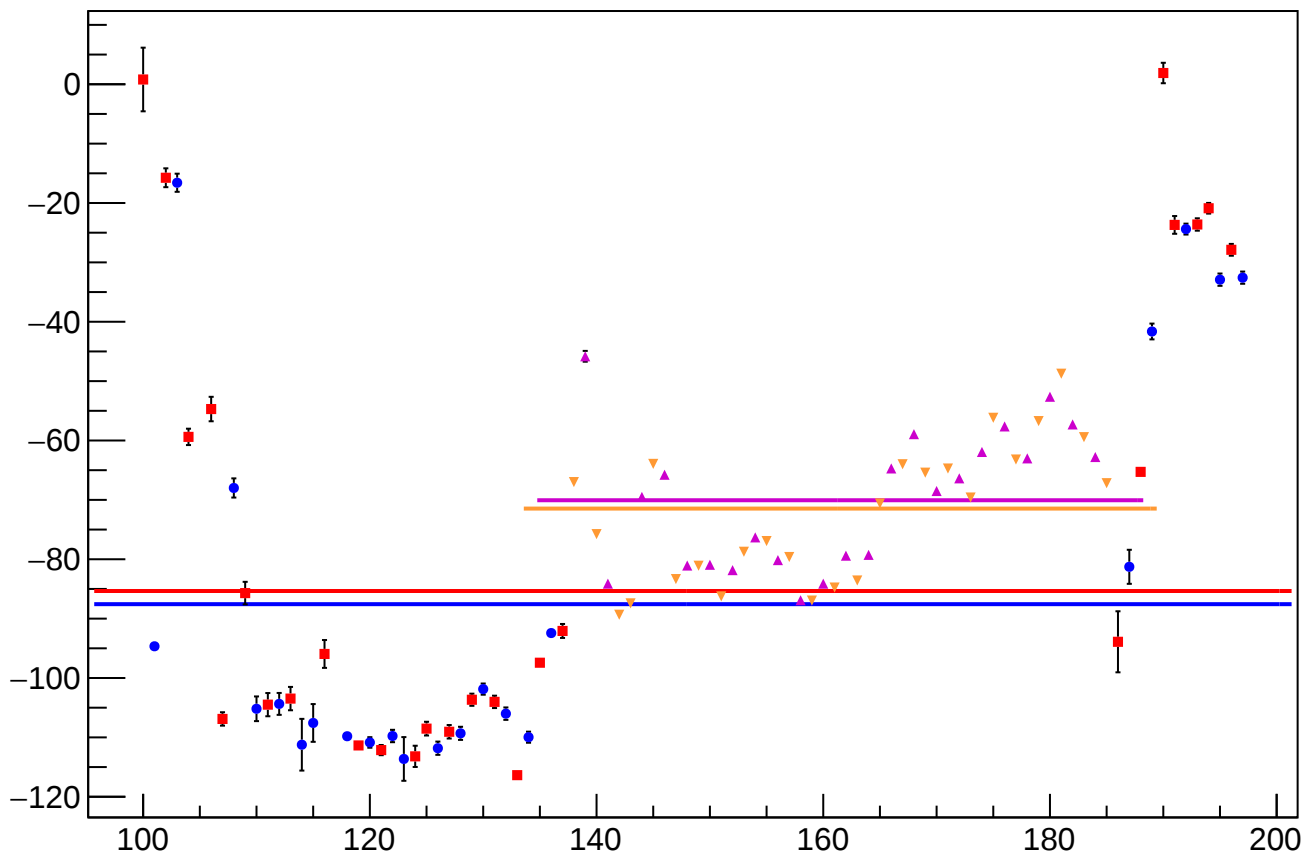
Right: 16.742 $\pm$ 0.160 χ^2 /NDF: 6010.5/47

In: 10.092 $\pm$ 0.095 χ^2 /NDF:15321.0/44

Out: 10.943 $\pm$ 0.090 χ^2 /NDF:18058.6/50

All: 10.539 $\pm$ 0.066 χ^2 /NDF: 33421.5/95

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.564 $\pm$ 0.226 χ^2 /NDF: 18645.6/21

Left Out: -71.465 $\pm$ 0.089 χ^2 /NDF:16409.7/24

Right Out: -85.346 $\pm$ 0.214 χ^2 /NDF: 27738.9/25

Left In: -70.061 $\pm$ 0.092 χ^2 /NDF:13058.5/22

Left: -70.782 $\pm$ 0.064 χ^2 /NDF: 29588.5/47

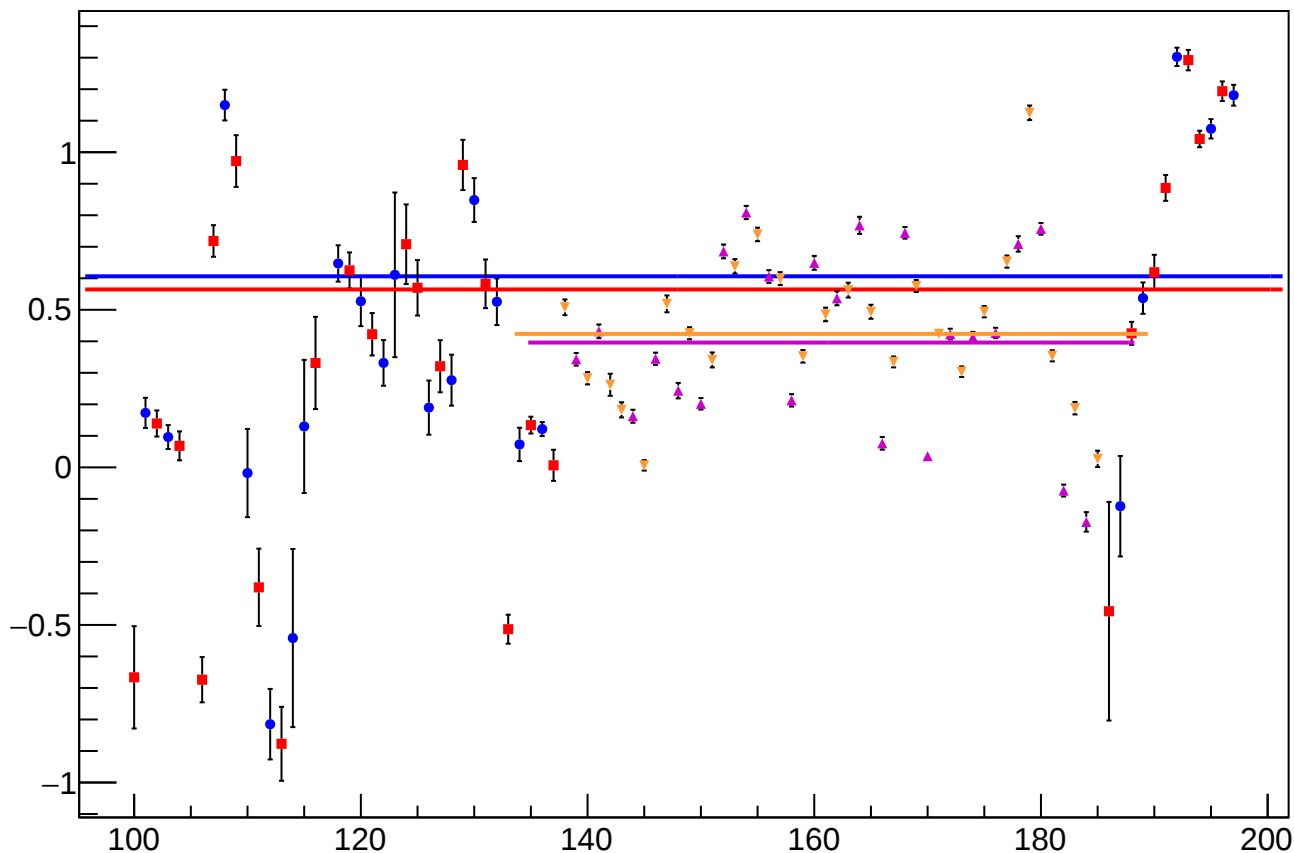
Right: -86.394 $\pm$ 0.155 χ^2 /NDF: 46435.3/47

In: -72.540 $\pm$ 0.085 χ^2 /NDF:36862.0/44

Out: -73.528 $\pm$ 0.082 χ^2 /NDF:47739.7/50

All: -73.049 $\pm$ 0.059 χ^2 /NDF: 84671.3/95

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.606 $\pm$ 0.010 χ^2/NDF : 2373.9/21

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

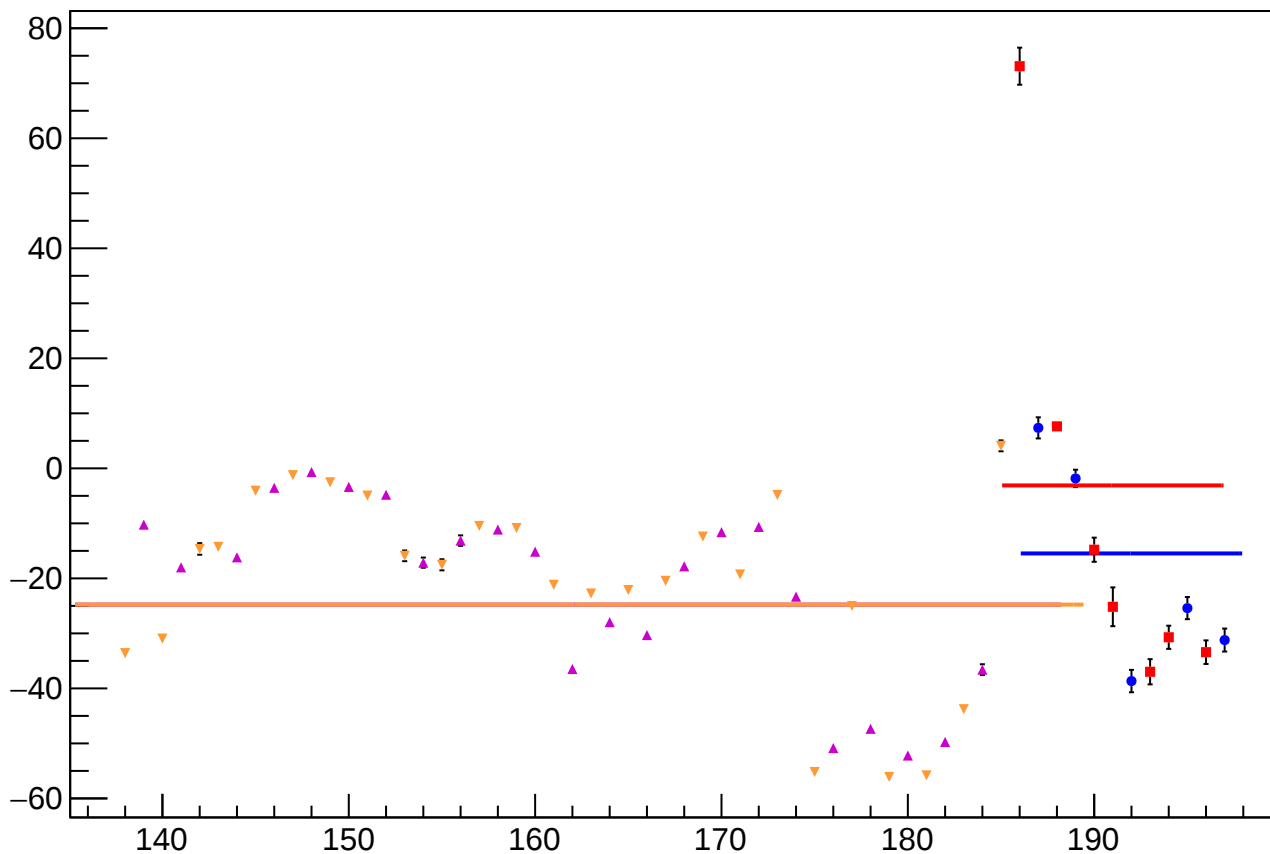
Right: 0.584 $\pm$ 0.007 χ^2/NDF : 5518.5/47

In: 0.425 $\pm$ 0.004 χ^2/NDF : 6771.8/44

Out: 0.445 $\pm$ 0.004 χ^2/NDF : 6200.5/50

All: 0.435 $\pm$ 0.003 χ^2/NDF : 12986.3/95

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected

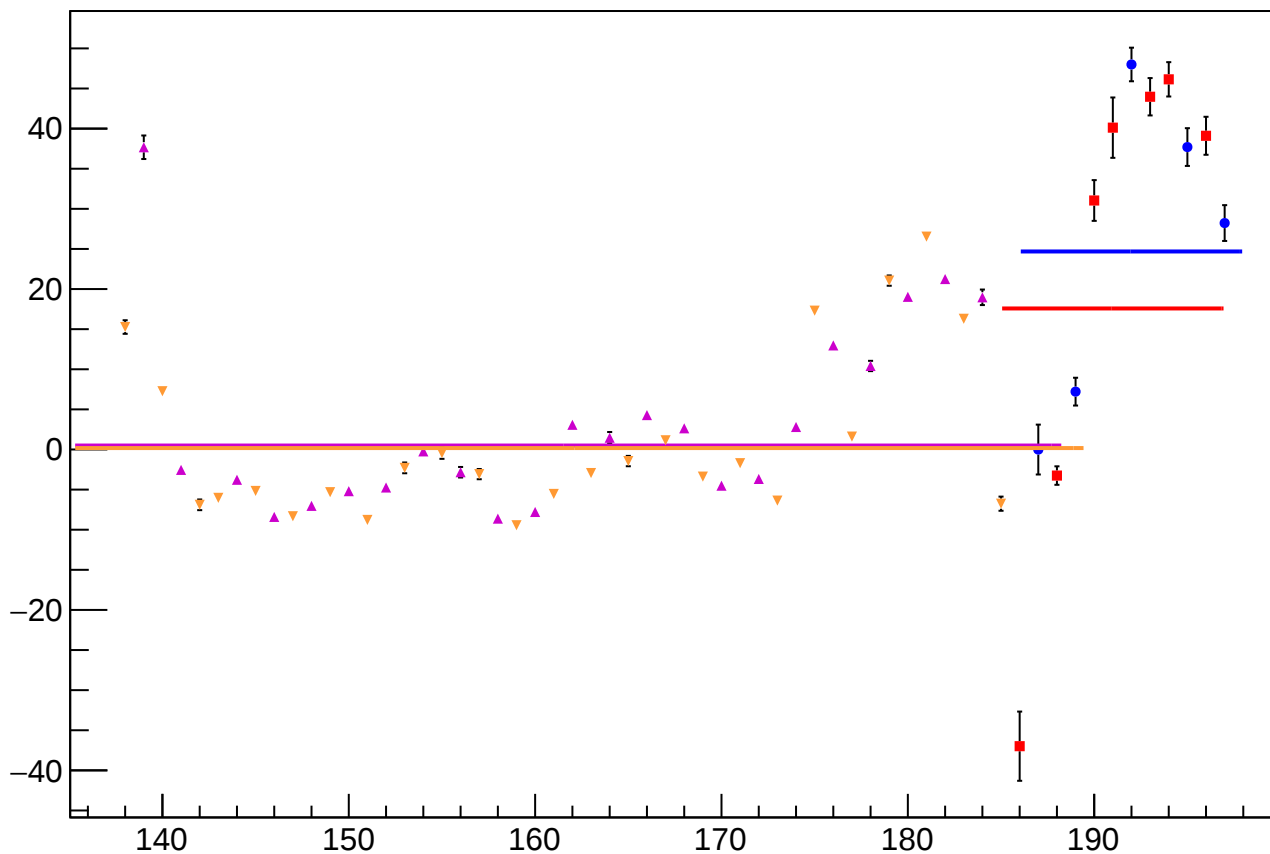


Right In: -15.467 ± 0.848 $\chi^2/\text{NDF}: 426.8/4$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -3.105 ± 0.624 $\chi^2/\text{NDF}: 1349.0/6$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$
 Right: -7.443 ± 0.503 $\chi^2/\text{NDF}: 1913.5/11$
 In: -24.518 ± 0.141 $\chi^2/\text{NDF}: 15351.2/27$
 Out: -23.739 ± 0.136 $\chi^2/\text{NDF}: 20816.3/31$

All: -24.115 ± 0.098 $\chi^2/\text{NDF}: 36183.3/59$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 24.685 $\pm$ 0.978 χ^2 /NDF: 321.8/4

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 17.580 $\pm$ 0.787 χ^2 /NDF: 939.6/6

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

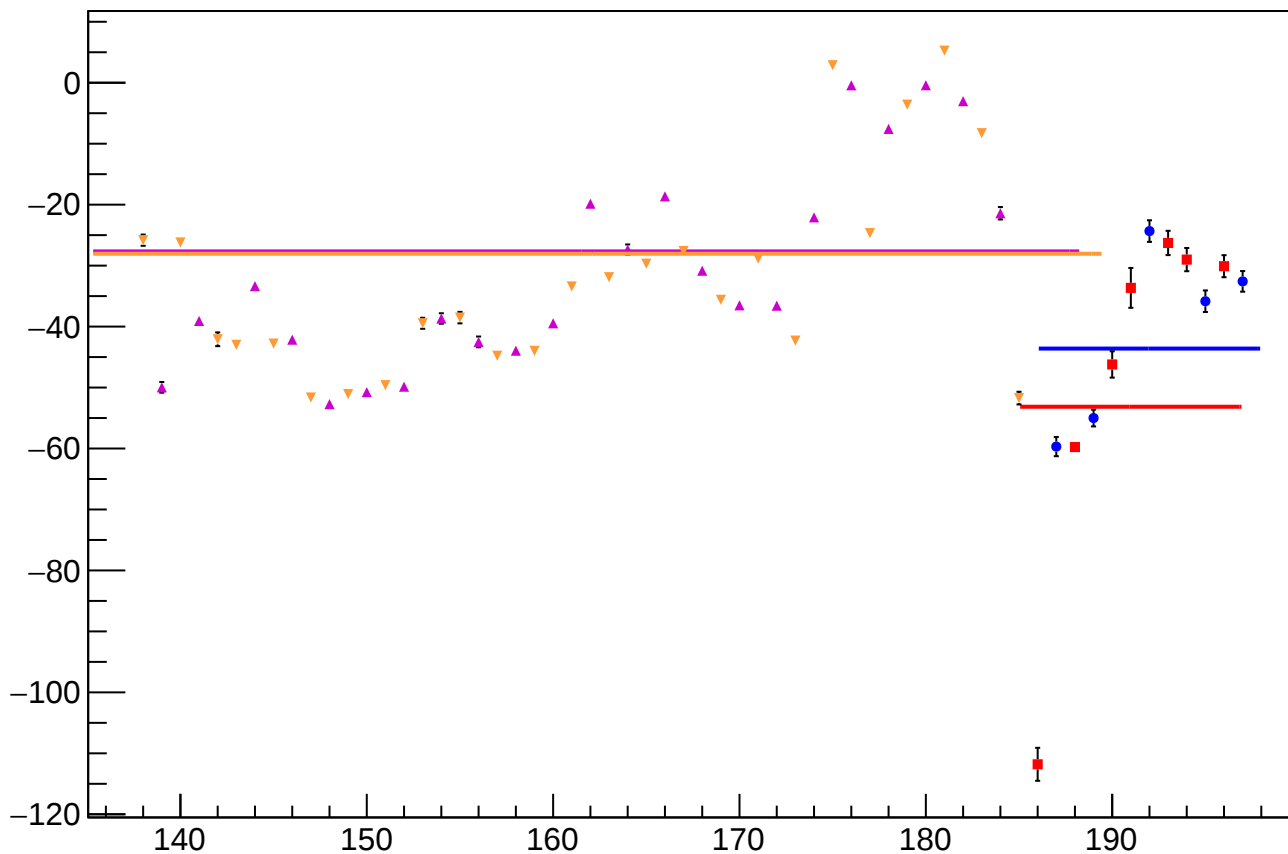
Right: 20.375 $\pm$ 0.613 χ^2 /NDF: 1293.4/11

In: 0.807 $\pm$ 0.111 χ^2 /NDF:7481.2/27

Out: 0.502 $\pm$ 0.108 χ^2 /NDF:9714.5/31

All: 0.649 $\pm$ 0.077 χ^2 /NDF: 17199.6/59

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.607 $\pm$ 0.722 χ^2 /NDF: 352.2/4

Left Out: -28.050 $\pm$ 0.140 χ^2 /NDF:17144.5/24

Right Out: -53.148 $\pm$ 0.522 χ^2 /NDF: 1125.0/6

Left In: -27.666 $\pm$ 0.142 χ^2 /NDF:15003.2/22

Left: -27.862 $\pm$ 0.100 χ^2 /NDF: 32151.3/47

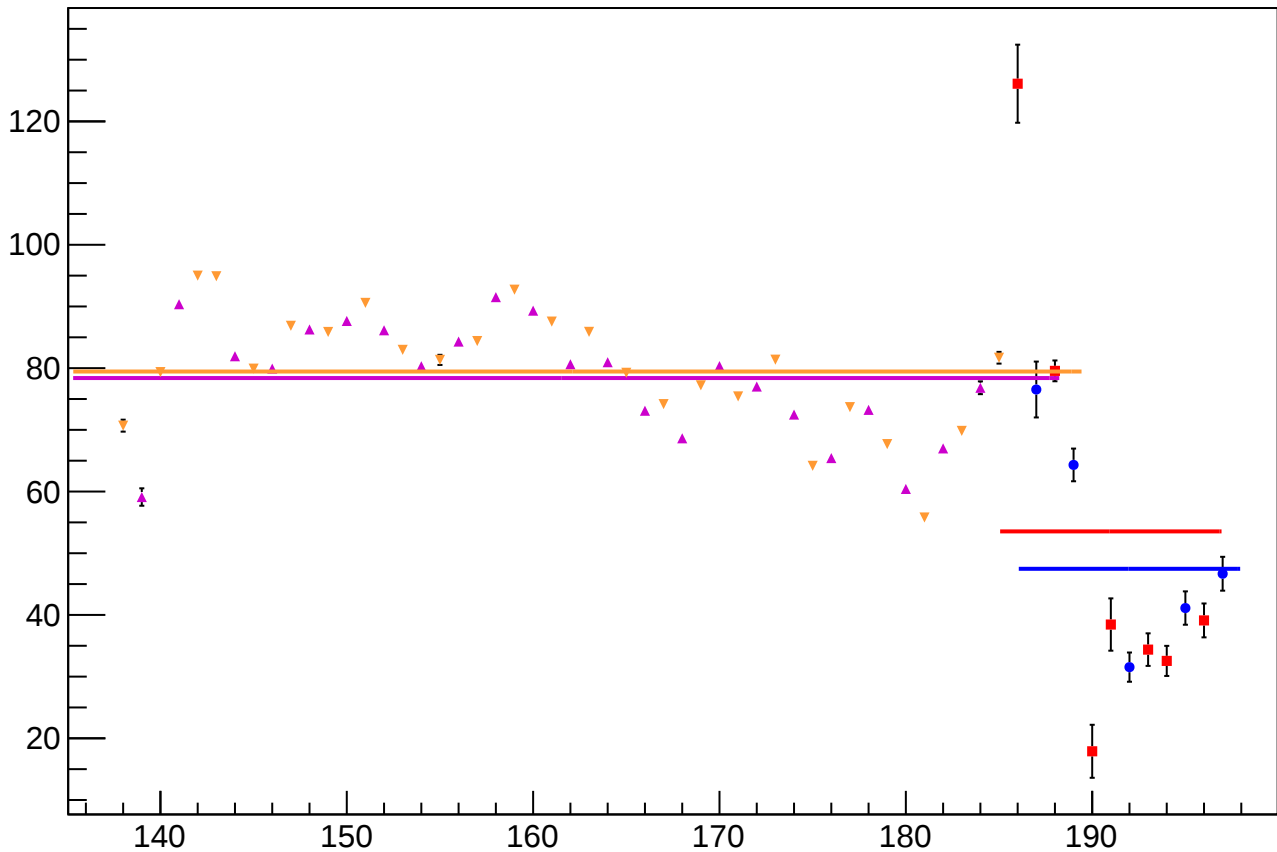
Right: -49.871 $\pm$ 0.423 χ^2 /NDF: 1591.8/11

In: -28.263 $\pm$ 0.140 χ^2 /NDF:15824.1/27

Out: -29.728 $\pm$ 0.135 χ^2 /NDF:20422.7/31

All: -29.020 $\pm$ 0.097 χ^2 /NDF: 36303.6/59

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.476+/-1.251 χ^2/NDF : 132.5/4

Left Out: 79.456+/-0.123 χ^2/NDF : 6077.1/24

Right Out: 53.539+/-1.037 χ^2/NDF : 605.5/6

Left In: 78.396+/-0.127 χ^2/NDF : 4707.3/22

Left: 78.941+/-0.088 χ^2/NDF : 10820.4/47

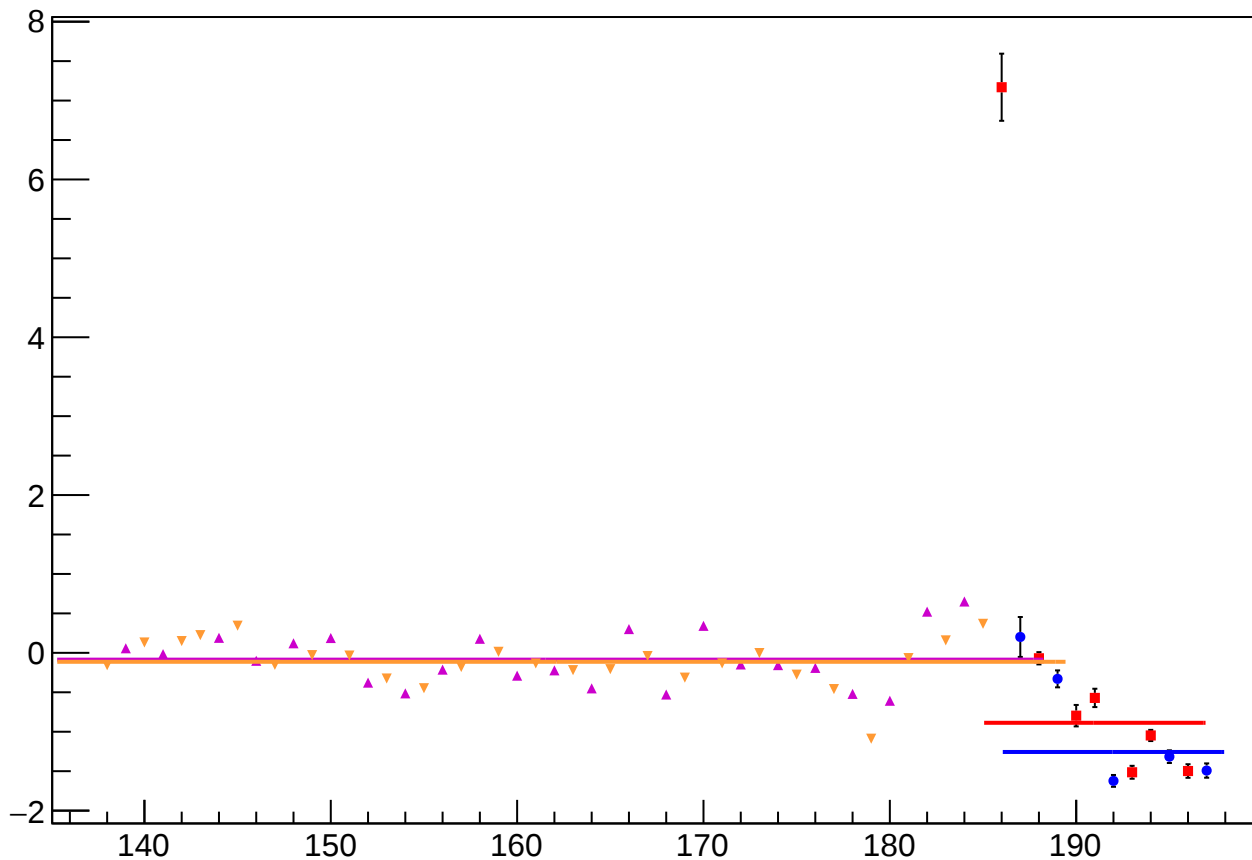
Right: 51.071+/-0.798 χ^2/NDF : 751.9/11

In: 78.082+/-0.126 χ^2/NDF : 5444.4/27

Out: 79.095+/-0.122 χ^2/NDF : 7299.1/31

All: 78.604+/-0.088 χ^2/NDF : 12776.7/59

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.256 ± 0.042 $\chi^2/\text{NDF}: 138.8/4$

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 $\chi^2/\text{NDF}: 5446.4/47$

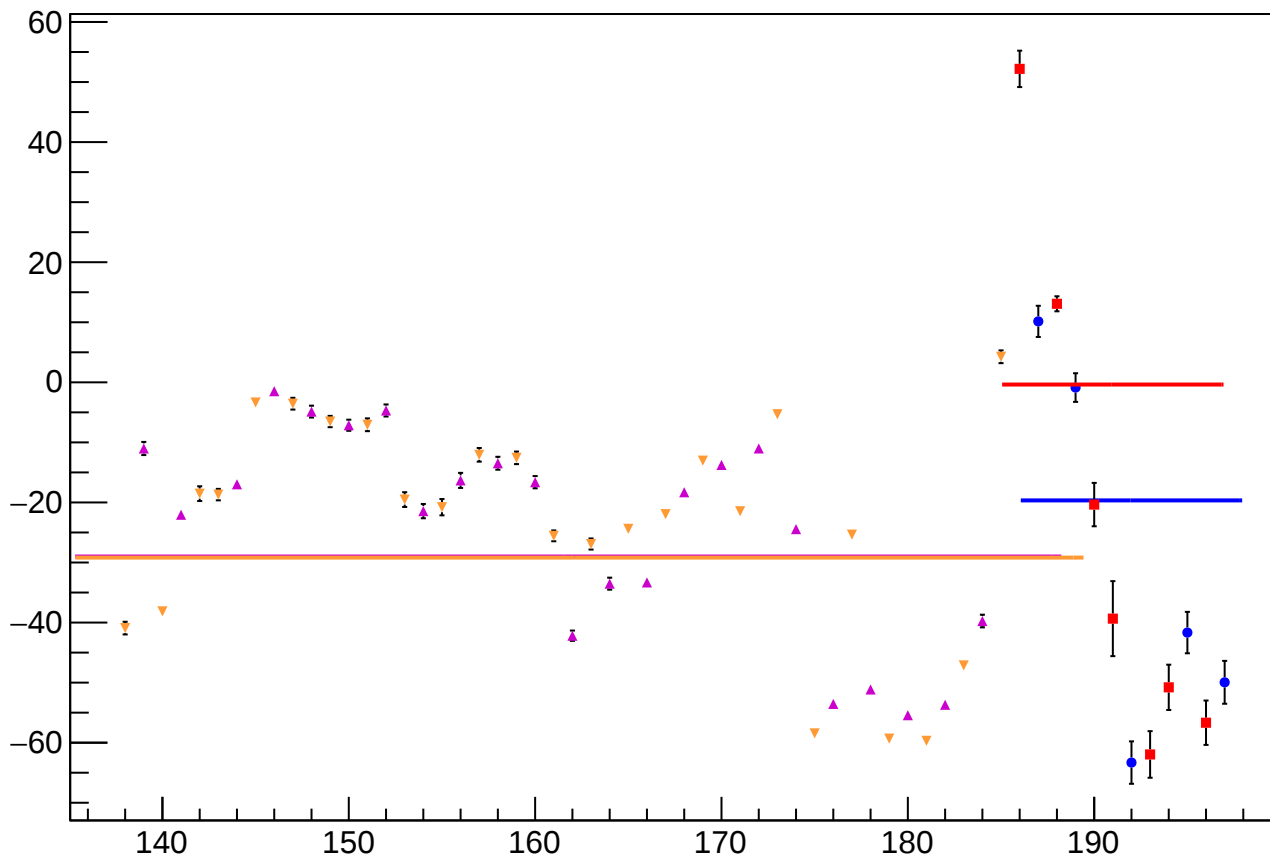
Right: -1.040 ± 0.027 $\chi^2/\text{NDF}: 774.0/11$

In: -0.108 ± 0.006 $\chi^2/\text{NDF}: 4018.6/27$

Out: -0.132 ± 0.006 $\chi^2/\text{NDF}: 3349.8/31$

All: -0.120 ± 0.004 $\chi^2/\text{NDF}: 7377.9/59$

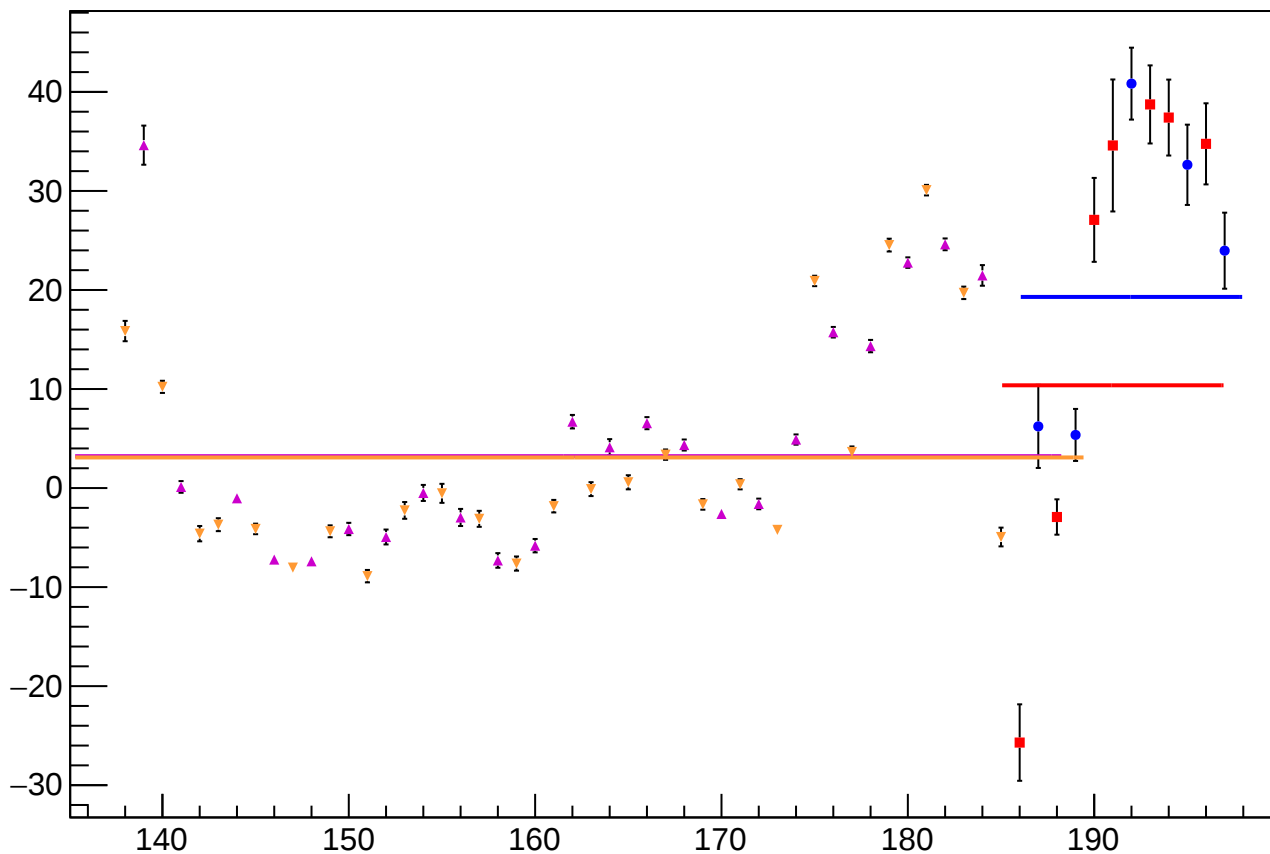
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.660 ± 1.328 $\chi^2/\text{NDF}: 459.4/4$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -0.367 ± 0.972 $\chi^2/\text{NDF}: 1149.0/6$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -7.093 ± 0.784 $\chi^2/\text{NDF}: 1745.8/11$
 In: -28.869 ± 0.159 $\chi^2/\text{NDF}: 13924.9/27$
 Out: -28.449 ± 0.155 $\chi^2/\text{NDF}: 18918.2/31$
 All: -28.654 ± 0.111 $\chi^2/\text{NDF}: 32846.7/59$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.299+/-1.569 χ^2/NDF : 85.3/4

Left Out: 3.091+/-0.124 χ^2/NDF : 8084.1/24

Right Out: 10.376+/-1.239 χ^2/NDF : 308.5/6

Left In: 3.221+/-0.127 χ^2/NDF : 6237.6/22

Left: 3.155+/-0.089 χ^2/NDF : 14322.2/47

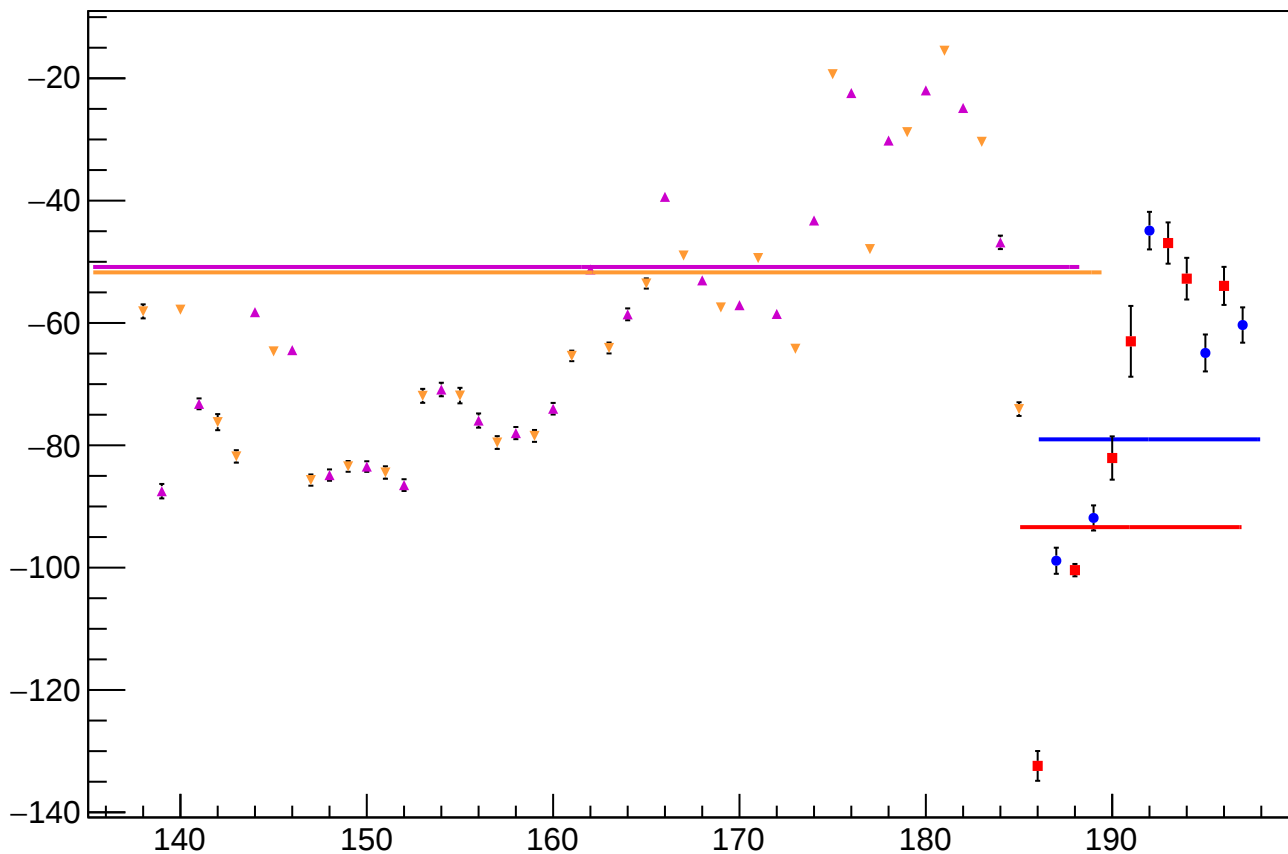
Right: 13.804+/-0.972 χ^2/NDF : 413.7/11

In: 3.326+/-0.127 χ^2/NDF : 6427.3/27

Out: 3.163+/-0.124 χ^2/NDF : 8426.8/31

All: 3.243+/-0.088 χ^2/NDF : 14854.9/59

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -79.027 $\pm$ 1.123 χ^2 /NDF: 312.9/4

Left Out: -51.729 $\pm$ 0.158 χ^2 /NDF:19538.0/24

Right Out: -93.377 $\pm$ 0.807 χ^2 /NDF: 835.7/6

Left In: -50.844 $\pm$ 0.160 χ^2 /NDF:17272.0/22

Left: -51.293 $\pm$ 0.112 χ^2 /NDF: 36825.5/47

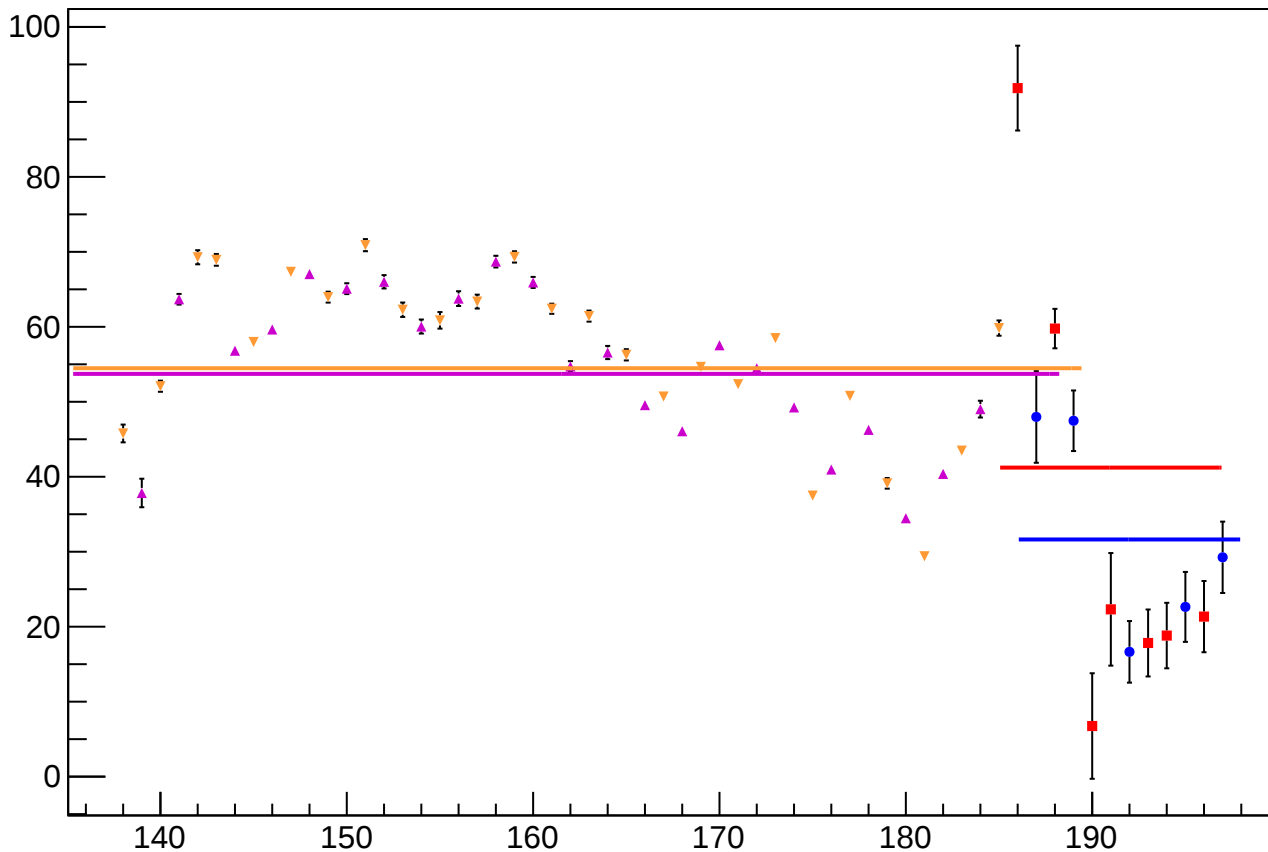
Right: -88.490 $\pm$ 0.656 χ^2 /NDF: 1256.2/11

In: -51.405 $\pm$ 0.159 χ^2 /NDF:18201.7/27

Out: -53.264 $\pm$ 0.155 χ^2 /NDF:22937.4/31

All: -52.355 $\pm$ 0.111 χ^2 /NDF: 41209.4/59

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.635 ± 2.053 $\chi^2/\text{NDF}: 39.8/4$

Left Out: 54.476 ± 0.140 $\chi^2/\text{NDF}: 6266.9/24$

Right Out: 41.222 ± 1.666 $\chi^2/\text{NDF}: 231.2/6$

Left In: 53.724 ± 0.143 $\chi^2/\text{NDF}: 4585.7/22$

Left: 54.107 ± 0.100 $\chi^2/\text{NDF}: 10866.7/47$

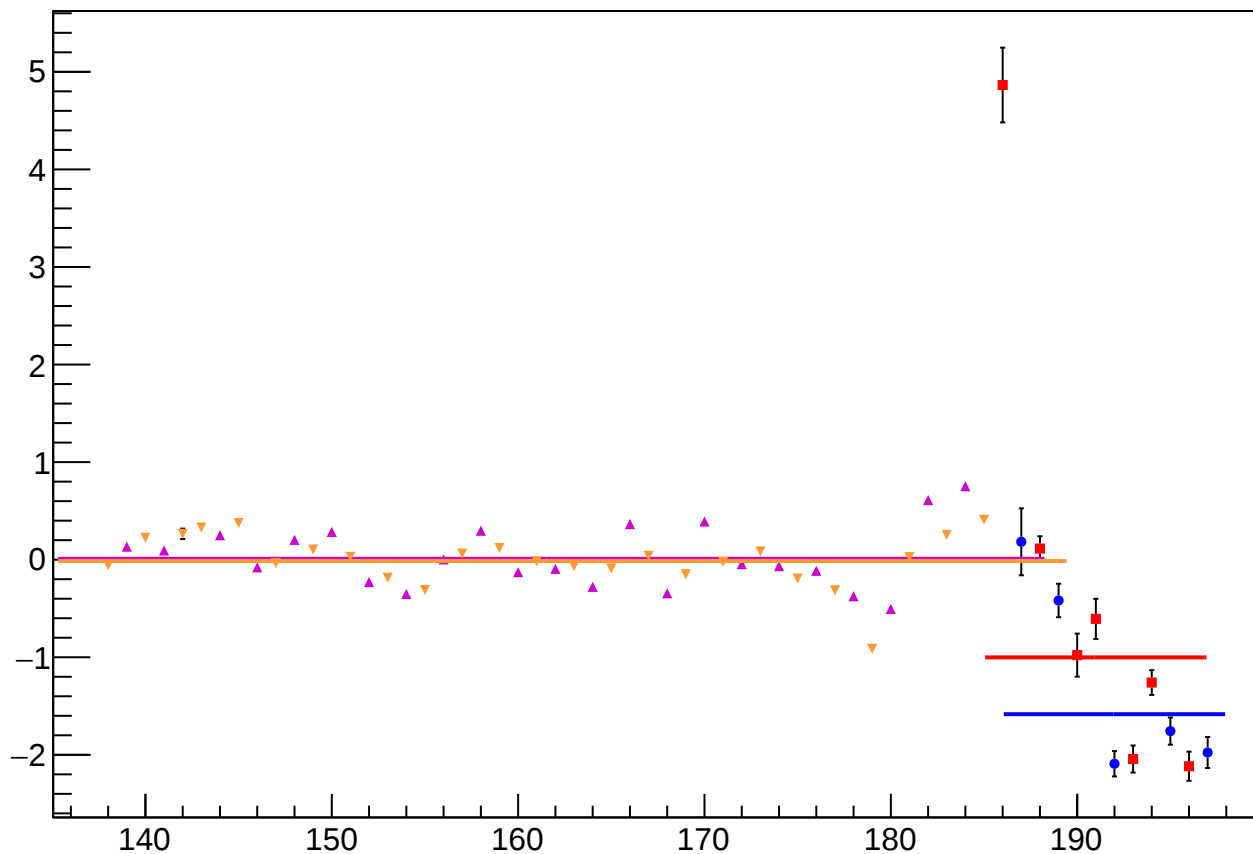
Right: 37.415 ± 1.293 $\chi^2/\text{NDF}: 284.2/11$

In: 53.617 ± 0.143 $\chi^2/\text{NDF}: 4740.8/27$

Out: 54.383 ± 0.140 $\chi^2/\text{NDF}: 6561.0/31$

All: 54.008 ± 0.100 $\chi^2/\text{NDF}: 11316.5/59$

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.584 ± 0.072 χ^2/NDF : 95.5/4

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -1.001 ± 0.061 χ^2/NDF : 433.4/6

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

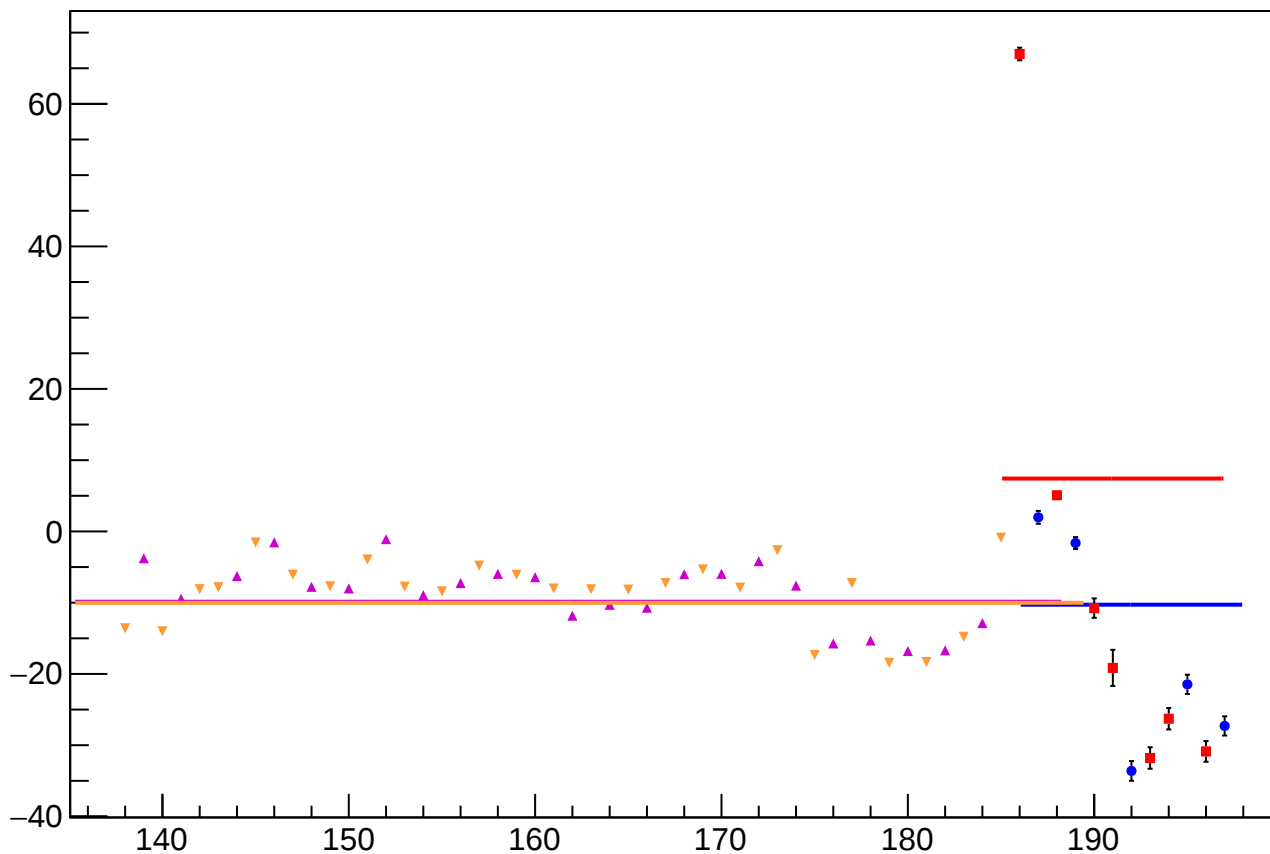
Right: -1.242 ± 0.046 χ^2/NDF : 567.1/11

In: -0.004 ± 0.007 χ^2/NDF : 2800.9/27

Out: -0.025 ± 0.006 χ^2/NDF : 2351.7/31

All: -0.015 ± 0.005 χ^2/NDF : 5157.6/59

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.281 ± 0.482 $\chi^2/\text{NDF}: 806.8/4$

Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$

Right Out: 7.420 ± 0.346 $\chi^2/\text{NDF}: 6726.6/6$

Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$

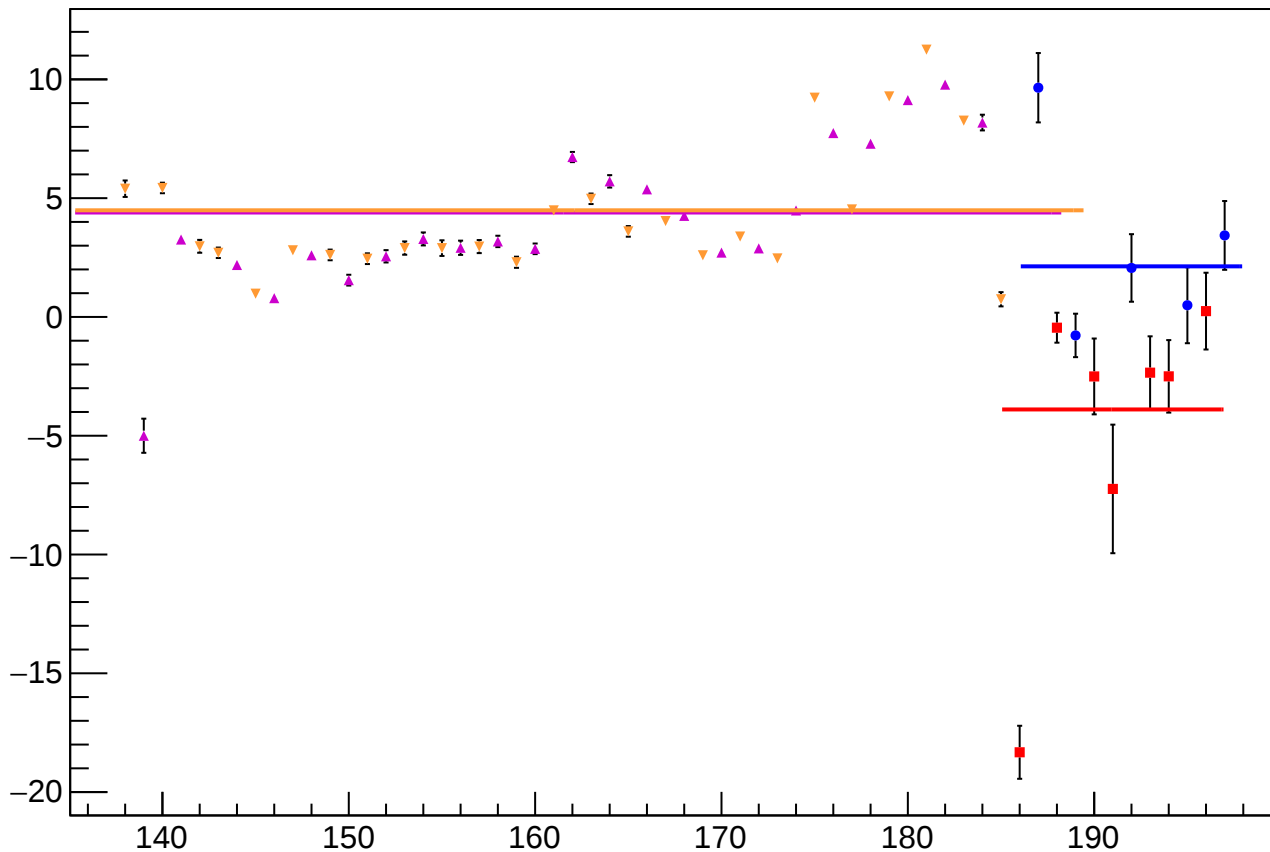
Right: 1.404 ± 0.281 $\chi^2/\text{NDF}: 8424.3/11$

In: -9.870 ± 0.051 $\chi^2/\text{NDF}: 10152.9/27$

Out: -9.650 ± 0.050 $\chi^2/\text{NDF}: 21769.5/31$

All: -9.758 ± 0.036 $\chi^2/\text{NDF}: 31931.8/59$

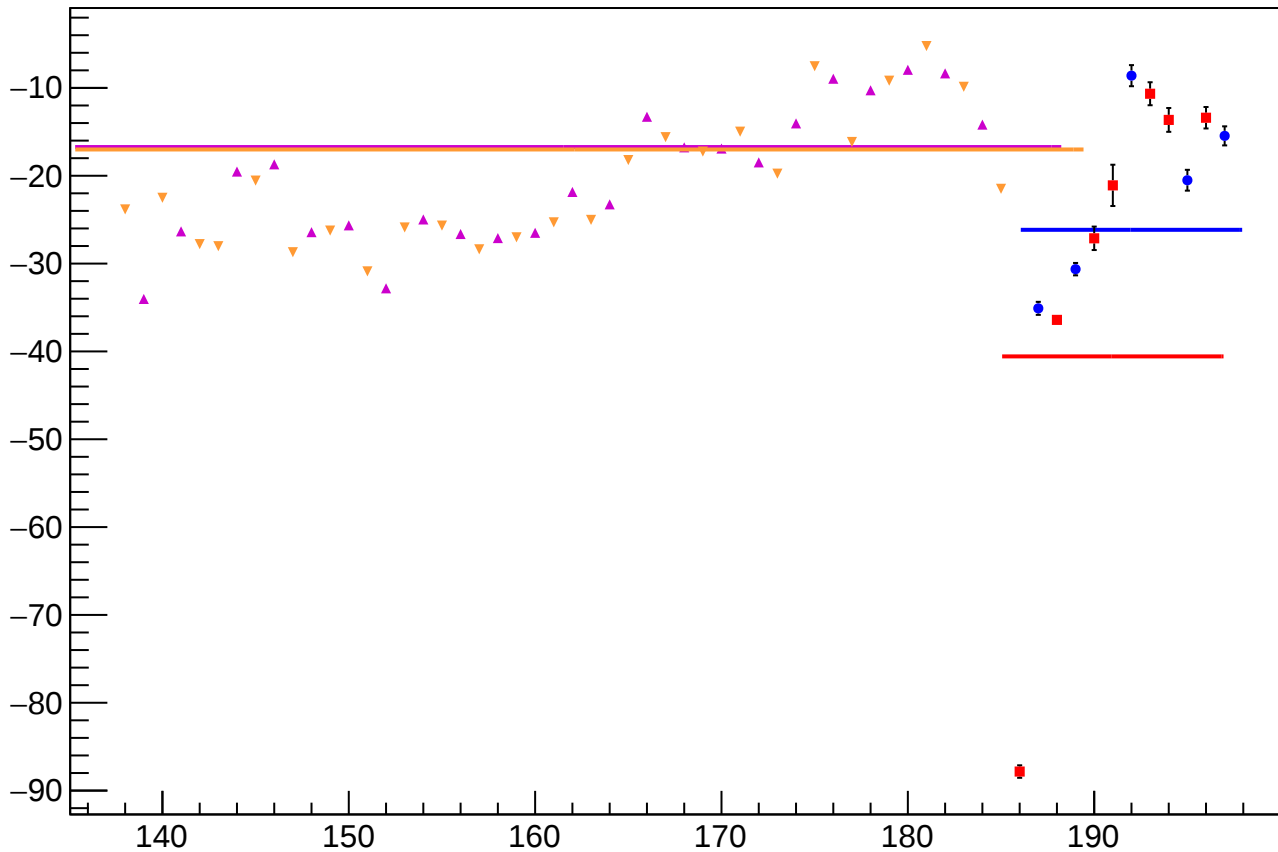
reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.130 ± 0.575 $\chi^2/\text{NDF}: 38.5/4$
 Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$
 Right Out: -3.894 ± 0.443 $\chi^2/\text{NDF}: 207.6/6$
 Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$
 Right: -1.646 ± 0.351 $\chi^2/\text{NDF}: 315.0/11$
 In: 4.384 ± 0.041 $\chi^2/\text{NDF}: 4284.3/27$
 Out: 4.419 ± 0.041 $\chi^2/\text{NDF}: 5394.3/31$
 All: 4.402 ± 0.029 $\chi^2/\text{NDF}: 9679.0/59$

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -26.155 ± 0.406 $\chi^2/\text{NDF}: 518.7/4$

Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$

Right Out: -40.567 ± 0.286 $\chi^2/\text{NDF}: 6134.4/6$

Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

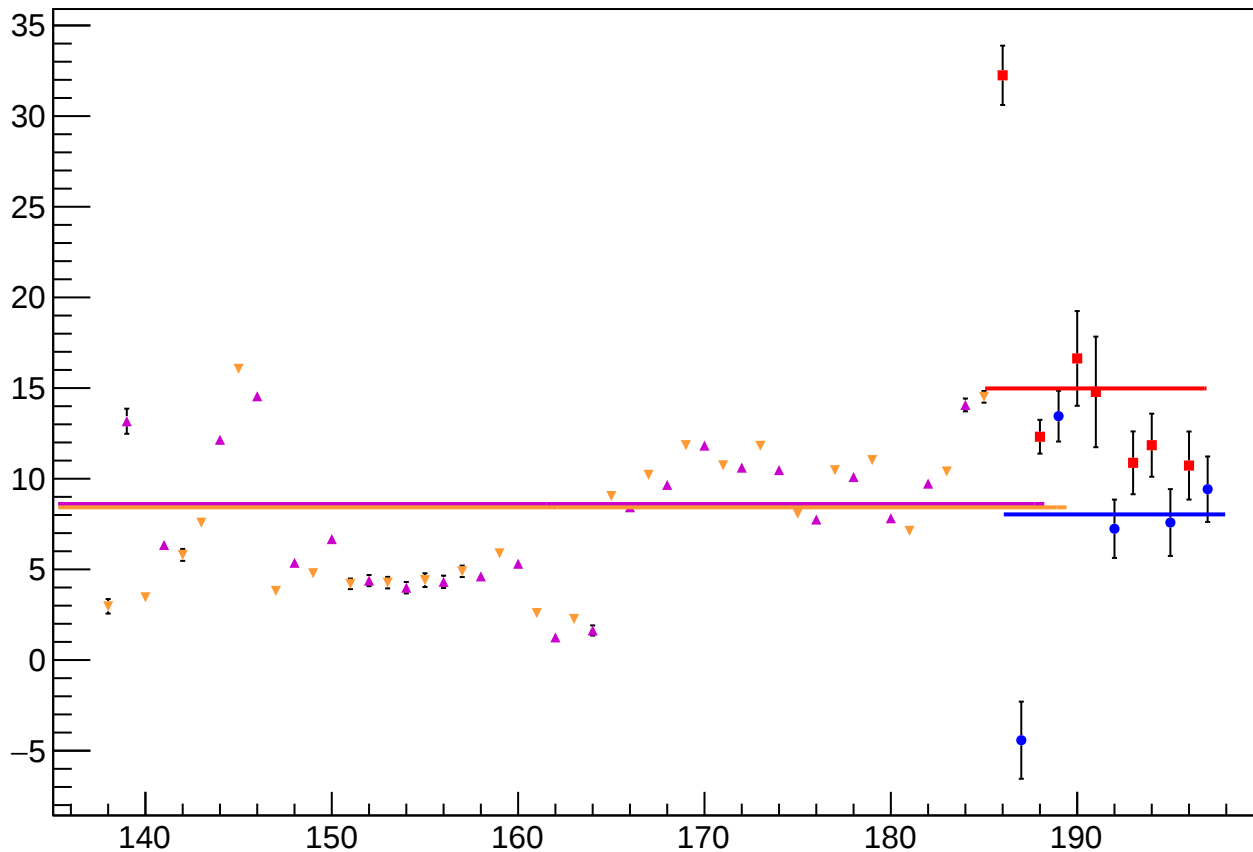
Right: -35.790 ± 0.234 $\chi^2/\text{NDF}: 7496.8/11$

In: -16.881 ± 0.051 $\chi^2/\text{NDF}: 19826.8/27$

Out: -17.738 ± 0.050 $\chi^2/\text{NDF}: 34820.3/31$

All: -17.317 ± 0.036 $\chi^2/\text{NDF}: 54789.9/59$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.032 $\pm$ 0.763 χ^2 /NDF: 50.1/4

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 14.980 $\pm$ 0.605 χ^2 /NDF: 134.1/6

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

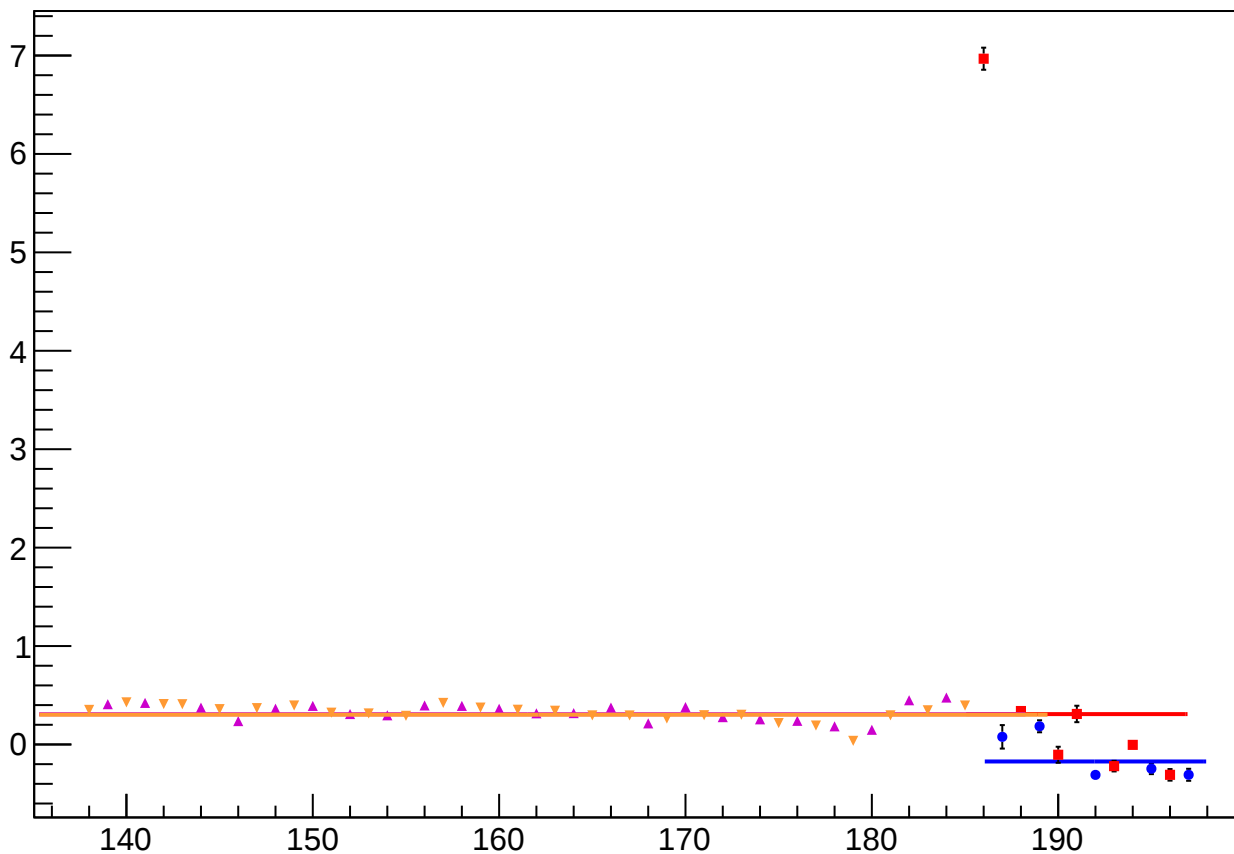
Right: 12.295 $\pm$ 0.474 χ^2 /NDF: 235.1/11

In: 8.604 $\pm$ 0.046 χ^2 /NDF: 5554.9/27

Out: 8.459 $\pm$ 0.045 χ^2 /NDF: 6720.9/31

All: 8.530 $\pm$ 0.032 χ^2 /NDF: 12280.9/59

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.173 ± 0.027 χ^2/NDF : 52.5/4

Left Out: 0.302 ± 0.002 χ^2/NDF : 1590.9/24

Right Out: 0.309 ± 0.023 χ^2/NDF : 3793.6/6

Left In: 0.307 ± 0.002 χ^2/NDF : 1699.5/22

Left: 0.305 ± 0.001 χ^2/NDF : 3293.0/47

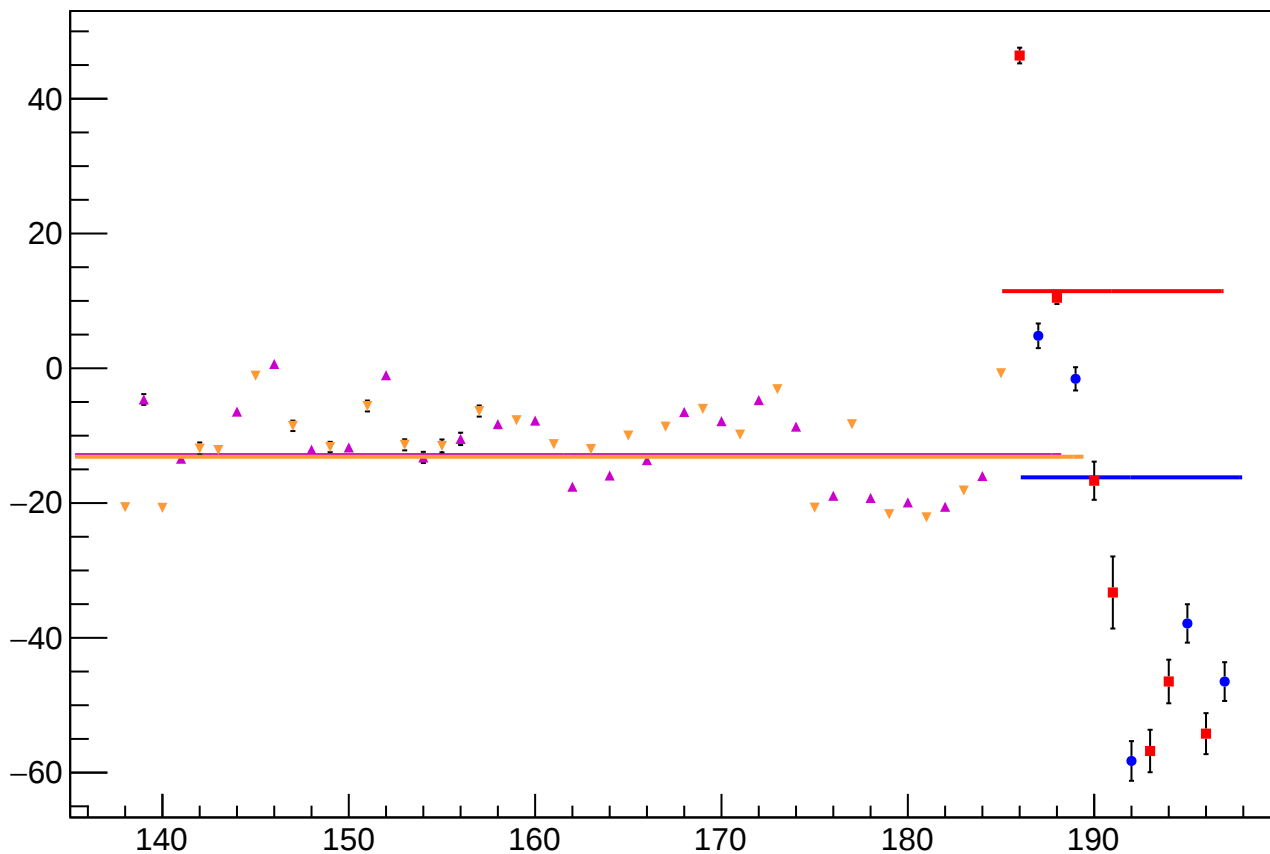
Right: 0.111 ± 0.018 χ^2/NDF : 4026.6/11

In: 0.304 ± 0.002 χ^2/NDF : 2054.9/27

Out: 0.303 ± 0.002 χ^2/NDF : 5384.6/31

All: 0.303 ± 0.001 χ^2/NDF : 7439.9/59

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



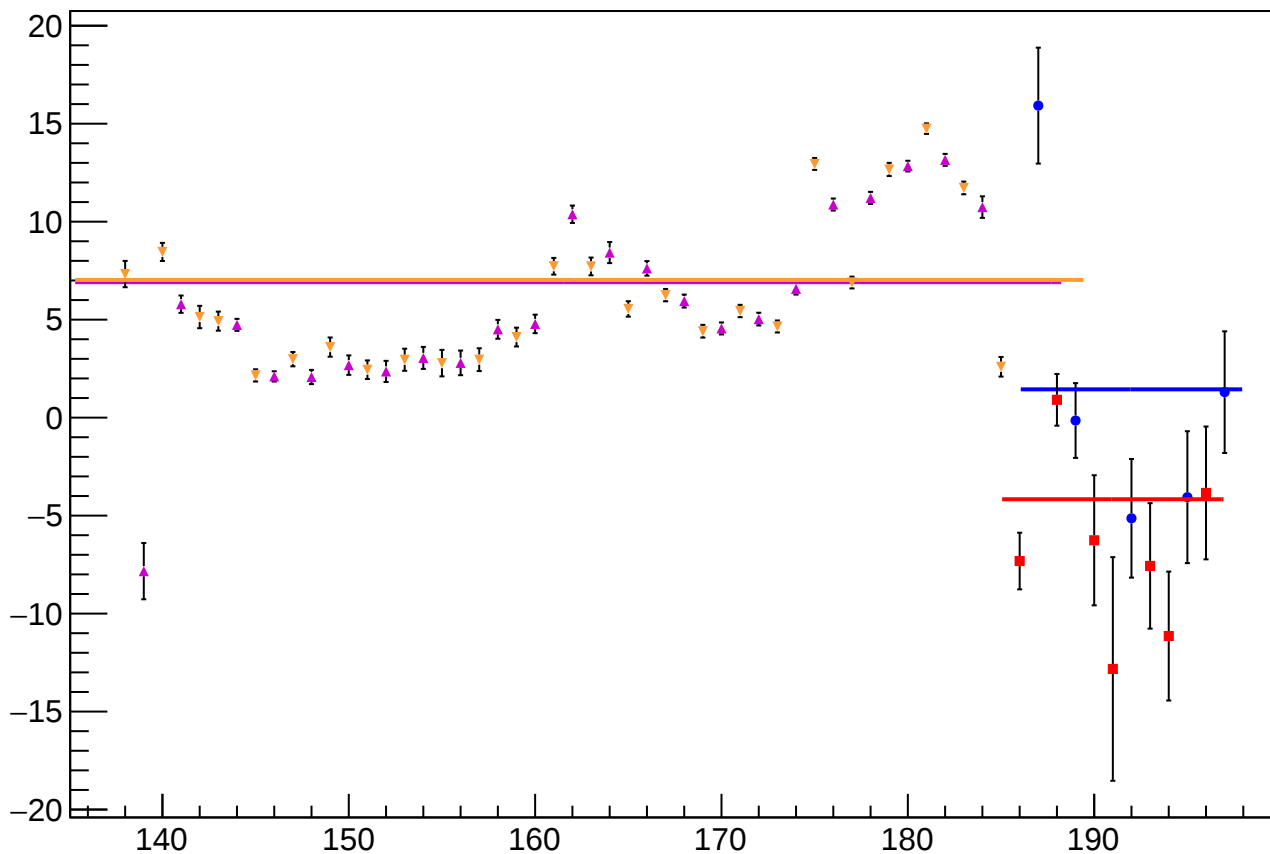
Right In: -16.184 ± 1.003 $\chi^2/\text{NDF}: 576.9/4$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 11.448 ± 0.652 $\chi^2/\text{NDF}: 2323.3/6$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$
 Right: 3.233 ± 0.547 $\chi^2/\text{NDF}: 3433.6/11$

In: -12.915 ± 0.095 $\chi^2/\text{NDF}: 5363.8/27$
 Out: -12.629 ± 0.093 $\chi^2/\text{NDF}: 9691.0/31$

All: -12.769 ± 0.066 $\chi^2/\text{NDF}: 15059.5/59$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.444 ± 1.204 χ^2/NDF : 32.1/4

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -4.165 ± 0.830 χ^2/NDF : 27.9/6

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

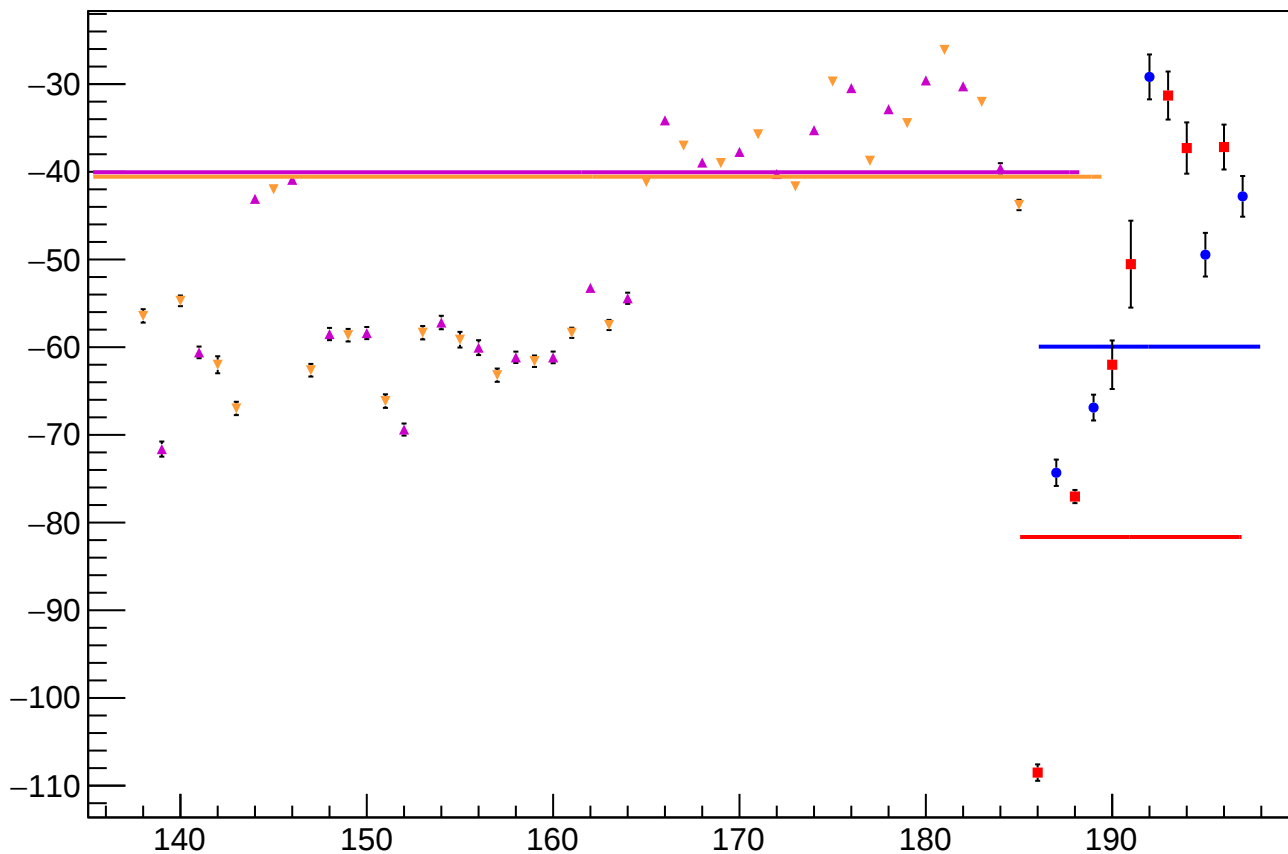
Right: -2.357 ± 0.683 χ^2/NDF : 74.7/11

In: 6.891 ± 0.078 χ^2/NDF : 2480.9/27

Out: 6.932 ± 0.077 χ^2/NDF : 2873.5/31

All: 6.912 ± 0.055 χ^2/NDF : 5354.5/59

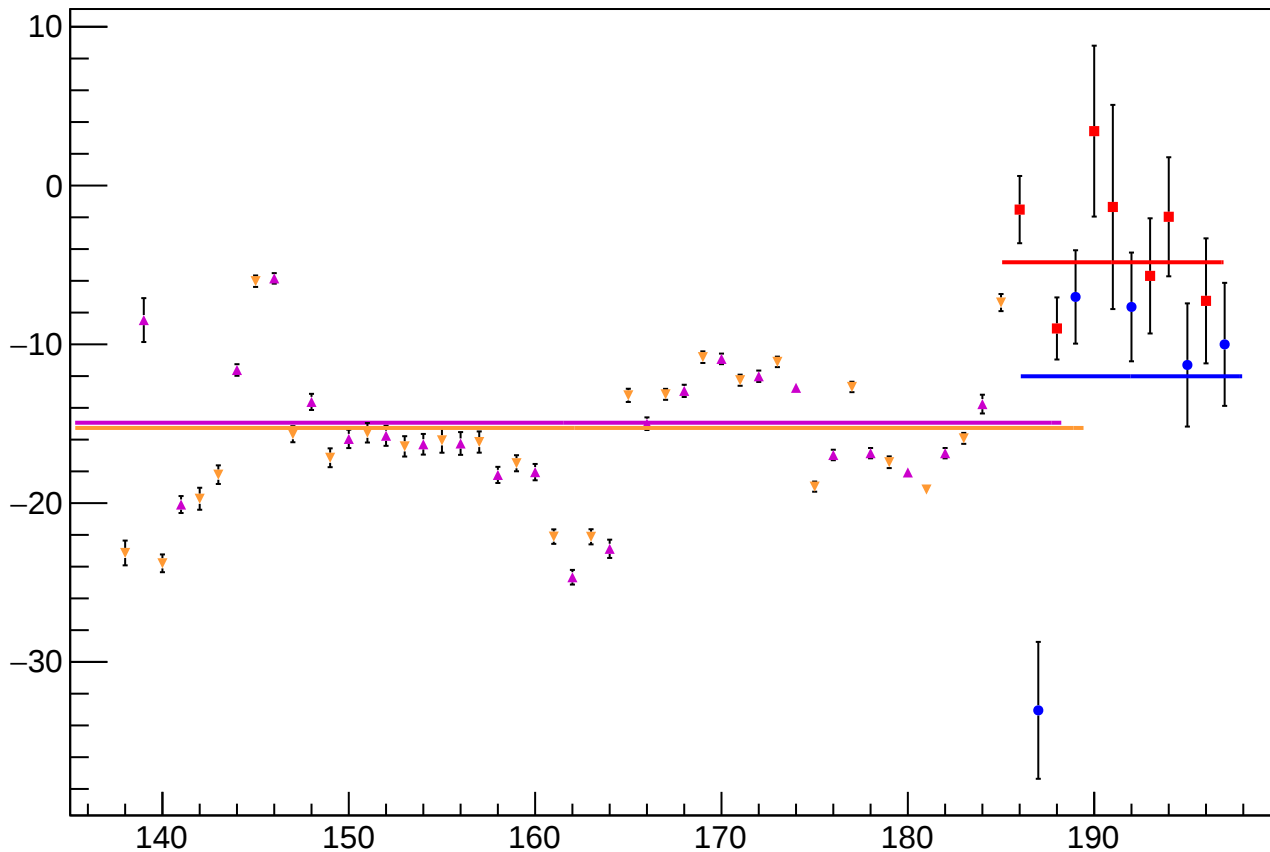
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.939 $\pm$ 0.844 χ^2 /NDF: 330.5/4
 Left Out: -40.563 $\pm$ 0.095 χ^2 /NDF:15637.6/24
 Right Out: -81.645 $\pm$ 0.536 χ^2 /NDF: 1821.8/6
 Left In: -40.053 $\pm$ 0.096 χ^2 /NDF:13927.3/22

Left: -40.310 $\pm$ 0.067 χ^2 /NDF: 29579.2/47
 Right: -75.415 $\pm$ 0.452 χ^2 /NDF: 2623.8/11
 In: -40.306 $\pm$ 0.095 χ^2 /NDF:14805.9/27
 Out: -41.809 $\pm$ 0.093 χ^2 /NDF:23166.2/31
 All: -41.071 $\pm$ 0.067 χ^2 /NDF: 38099.6/59

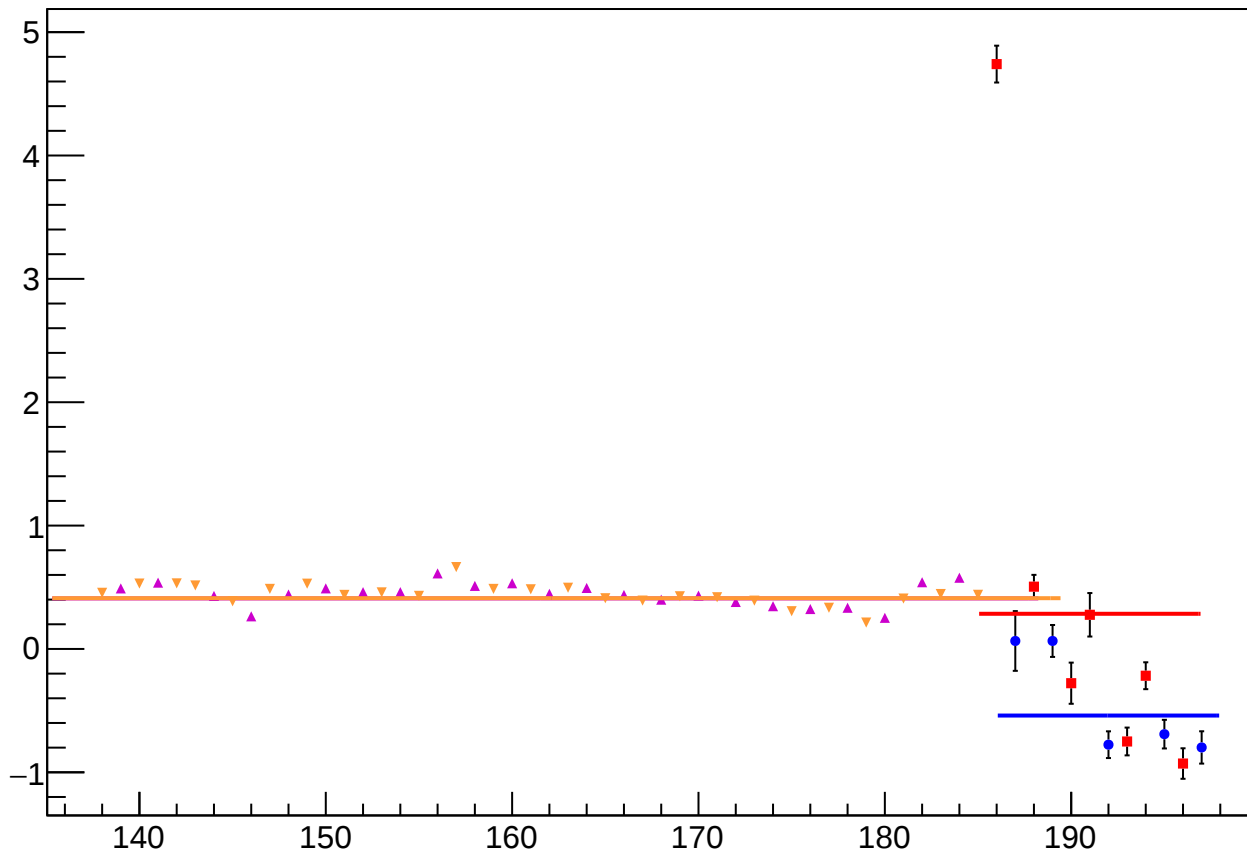
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.012 ± 1.606 $\chi^2/\text{NDF}: 28.6/4$
 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: -7.268 ± 0.935 $\chi^2/\text{NDF}: 52.5/11$
 In: -14.928 ± 0.087 $\chi^2/\text{NDF}: 2231.6/27$
 Out: -15.208 ± 0.086 $\chi^2/\text{NDF}: 2687.9/31$
 All: -15.069 ± 0.061 $\chi^2/\text{NDF}: 4924.8/59$

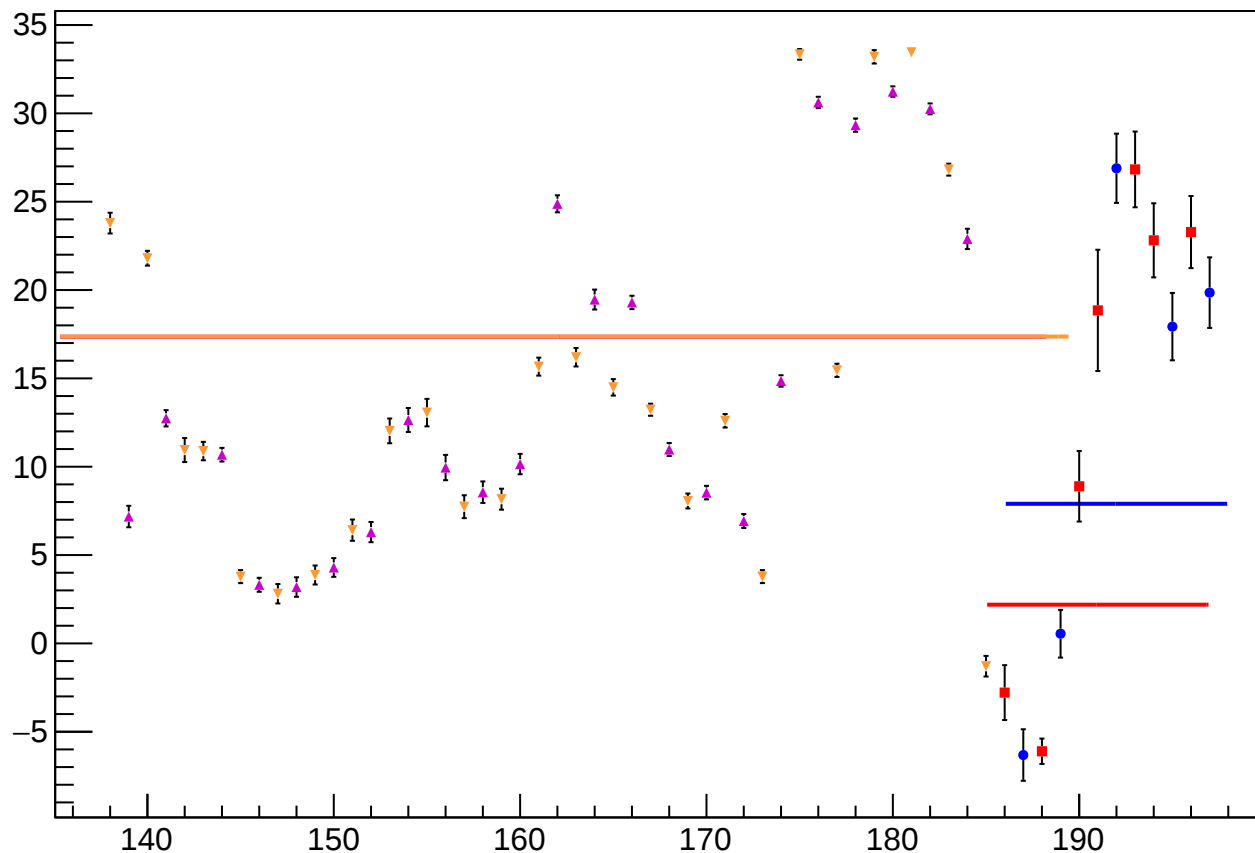
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.540 ± 0.058 $\chi^2/\text{NDF}: 38.4/4$
 Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$
 Right Out: 0.285 ± 0.047 $\chi^2/\text{NDF}: 1108.6/6$
 Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$
 Right: -0.041 ± 0.037 $\chi^2/\text{NDF}: 1268.2/11$
 In: 0.405 ± 0.004 $\chi^2/\text{NDF}: 860.4/27$
 Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 1544.4/31$
 All: 0.408 ± 0.003 $\chi^2/\text{NDF}: 2405.8/59$

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.901 $\pm$ 0.745 χ^2 /NDF: 282.1/4

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

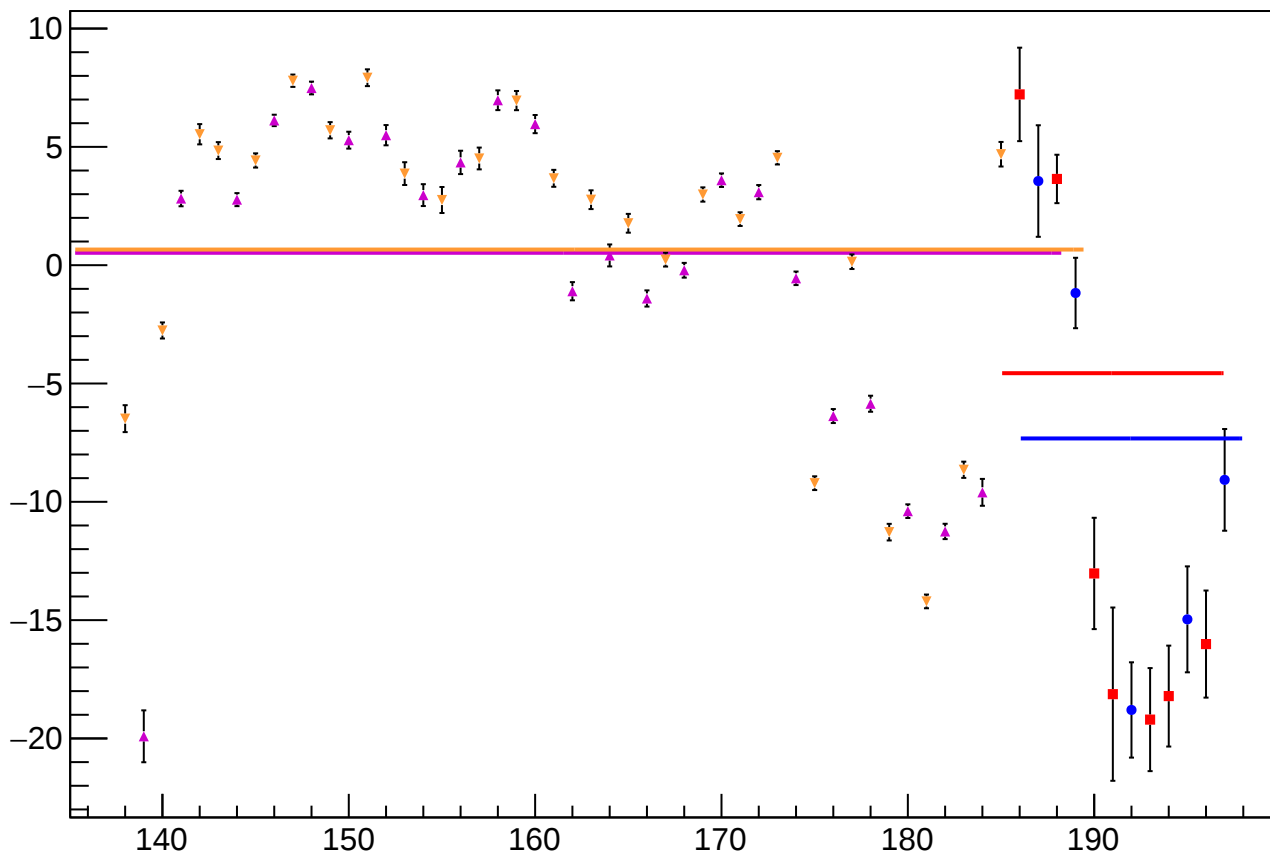
Right: 4.178 $\pm$ 0.439 χ^2 /NDF: 835.1/11

In: 17.222 $\pm$ 0.088 χ^2 /NDF:13186.2/27

Out: 16.988 $\pm$ 0.086 χ^2 /NDF:17611.6/31

All: 17.102 $\pm$ 0.062 χ^2 /NDF: 30801.4/59

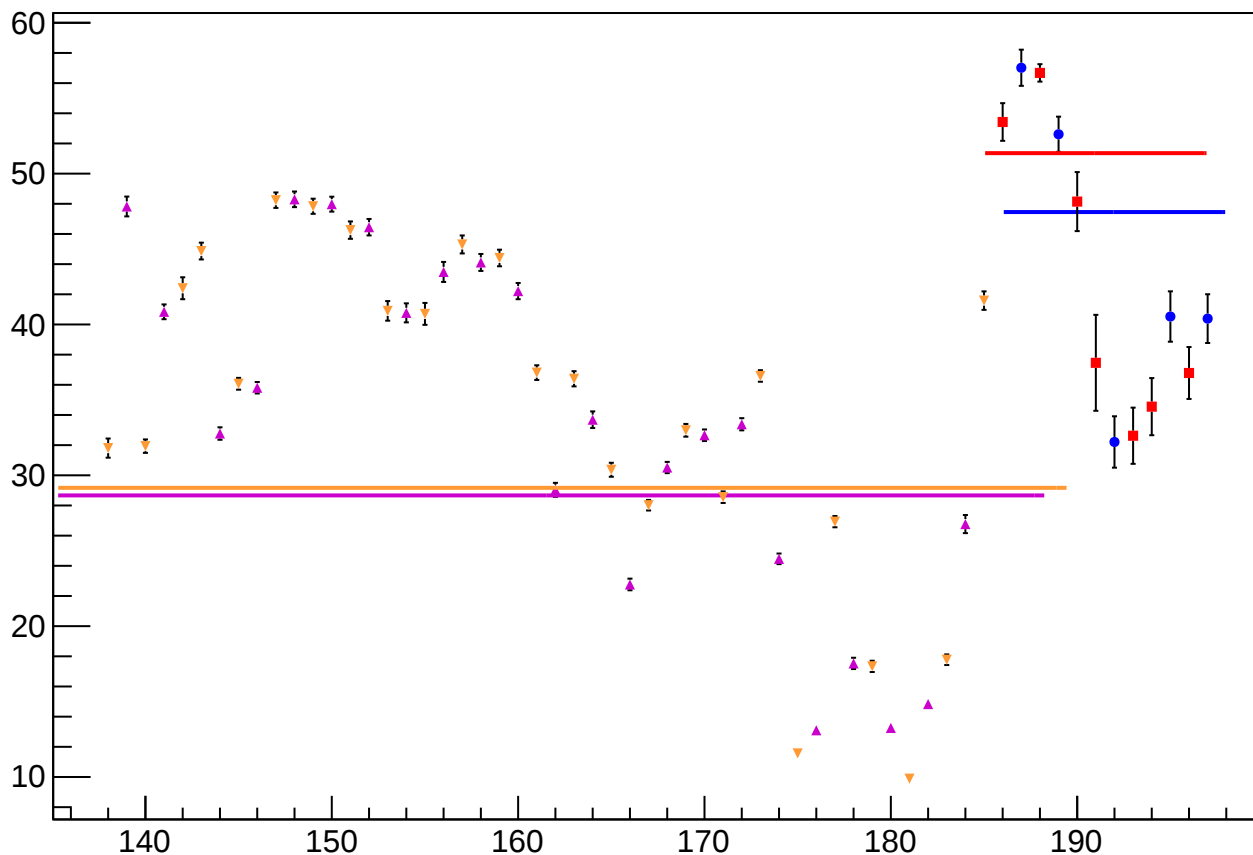
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.322 ± 0.879 $\chi^2/\text{NDF}: 83.2/4$
 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: -5.618 ± 0.543 $\chi^2/\text{NDF}: 327.6/11$
 In: 0.473 ± 0.071 $\chi^2/\text{NDF}: 6892.0/27$
 Out: 0.609 ± 0.069 $\chi^2/\text{NDF}: 8848.8/31$
 All: 0.542 ± 0.049 $\chi^2/\text{NDF}: 15742.7/59$

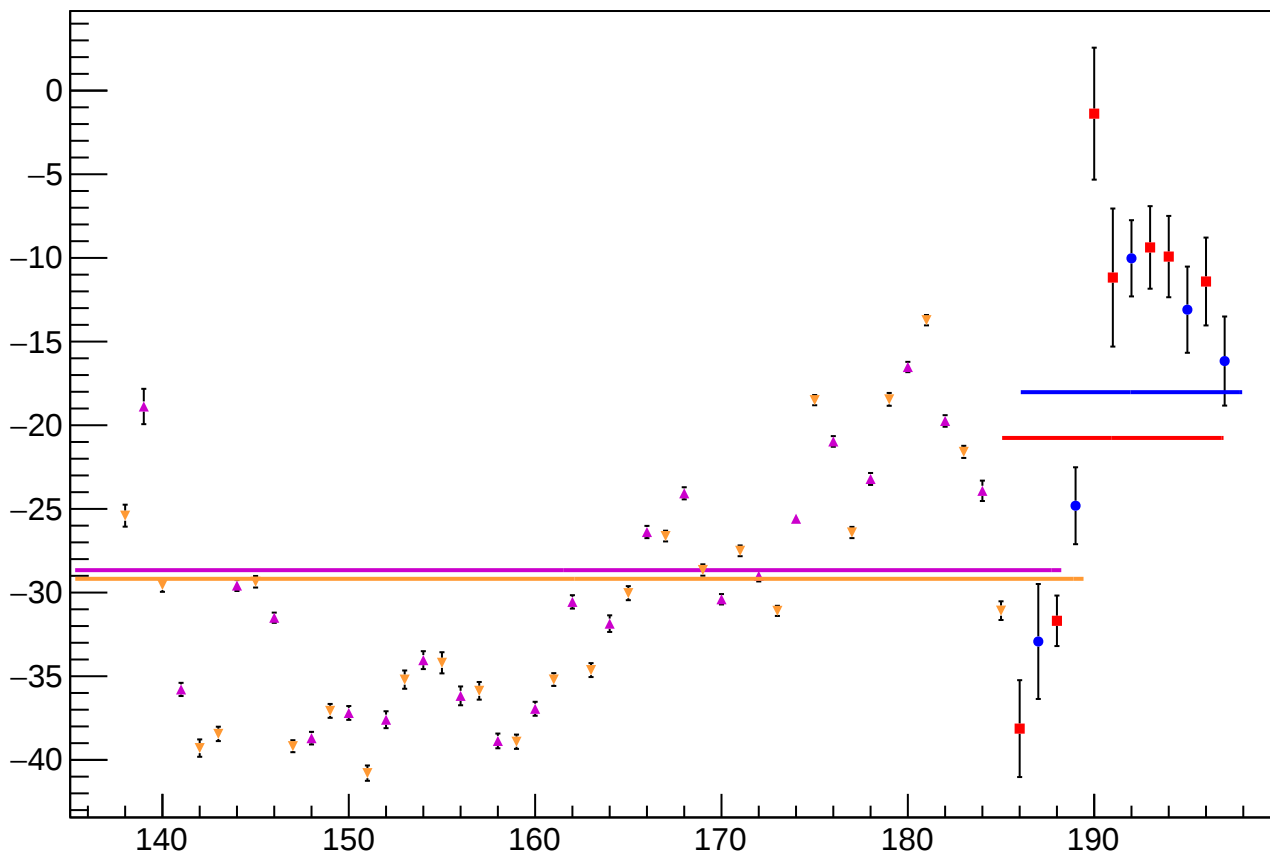
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.453 $\pm$ 0.630 χ^2 /NDF: 199.6/4
 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: 50.032 $\pm$ 0.367 χ^2 /NDF: 585.7/11
 In: 29.035 $\pm$ 0.088 χ^2 /NDF:17917.6/27
 Out: 29.977 $\pm$ 0.086 χ^2 /NDF:21657.0/31
 All: 29.517 $\pm$ 0.062 χ^2 /NDF: 39632.9/59

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



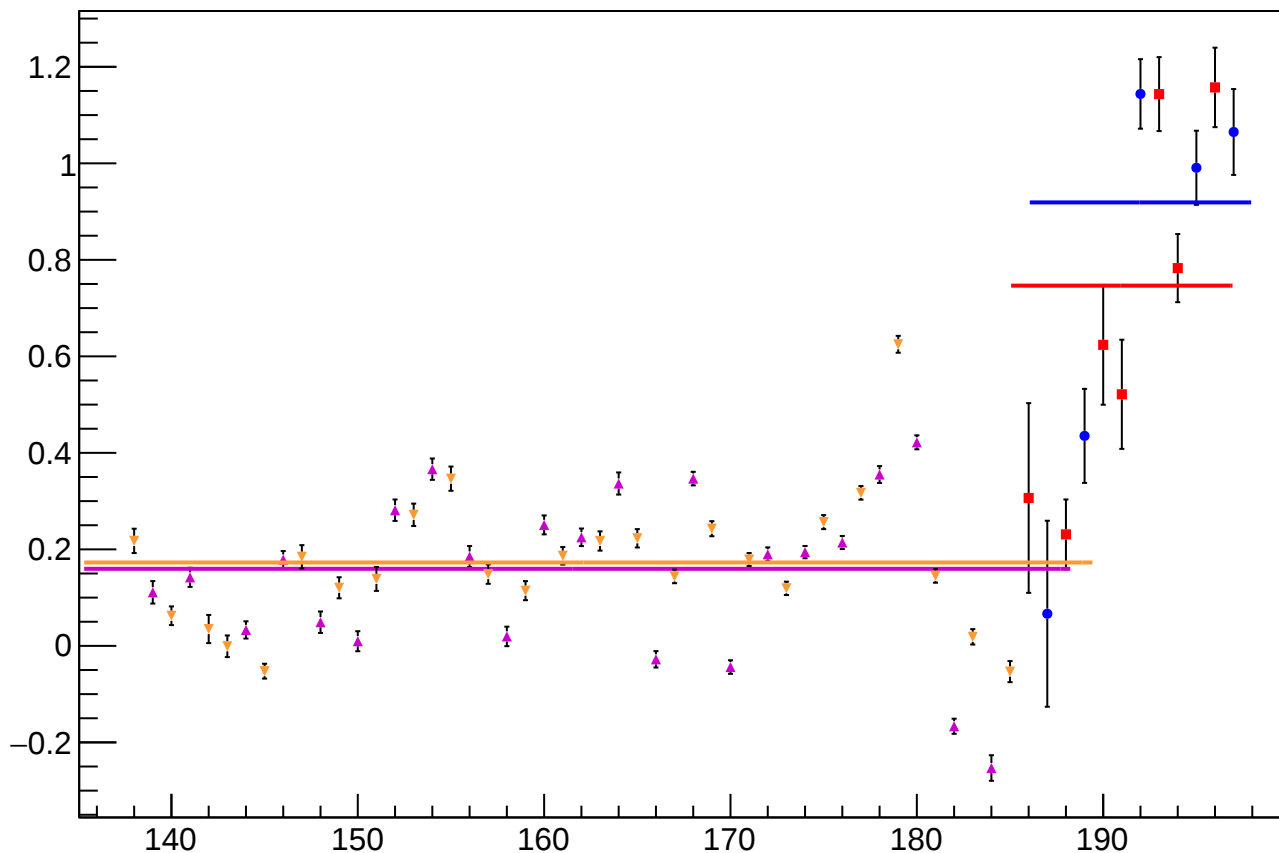
Right In: -18.023 ± 1.148 $\chi^2/\text{NDF}: 44.0/4$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -20.759 ± 0.928 $\chi^2/\text{NDF}: 171.9/6$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -19.677 ± 0.722 $\chi^2/\text{NDF}: 219.3/11$

In: -28.609 ± 0.080 $\chi^2/\text{NDF}: 6799.6/27$
 Out: -29.119 ± 0.078 $\chi^2/\text{NDF}: 9334.9/31$

All: -28.869 ± 0.056 $\chi^2/\text{NDF}: 16155.4/59$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.919 $\pm$ 0.040 χ^2 /NDF: 57.5/4

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

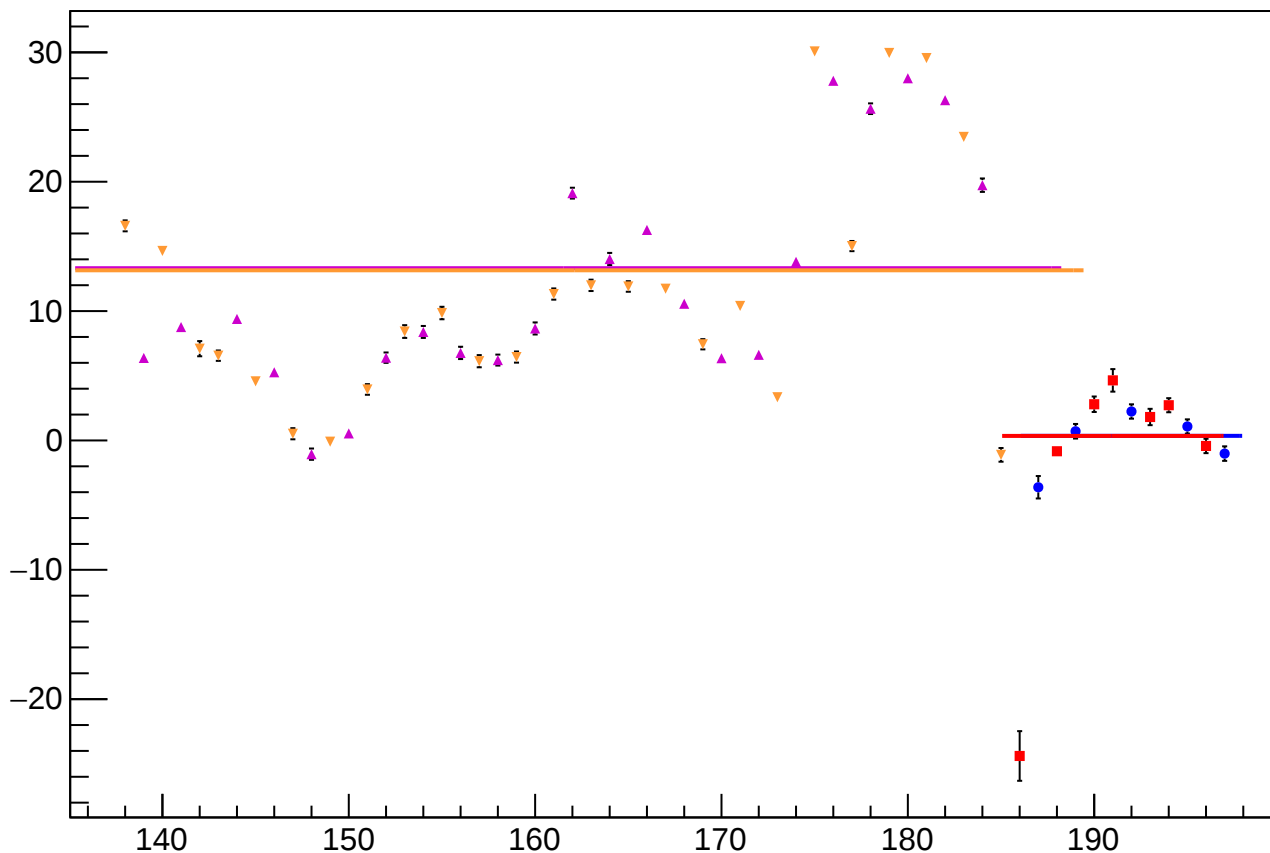
Right: 0.818 $\pm$ 0.026 χ^2 /NDF: 181.1/11

In: 0.166 $\pm$ 0.004 χ^2 /NDF:2470.3/27

Out: 0.179 $\pm$ 0.004 χ^2 /NDF:1877.1/31

All: 0.173 $\pm$ 0.003 χ^2 /NDF: 4354.2/59

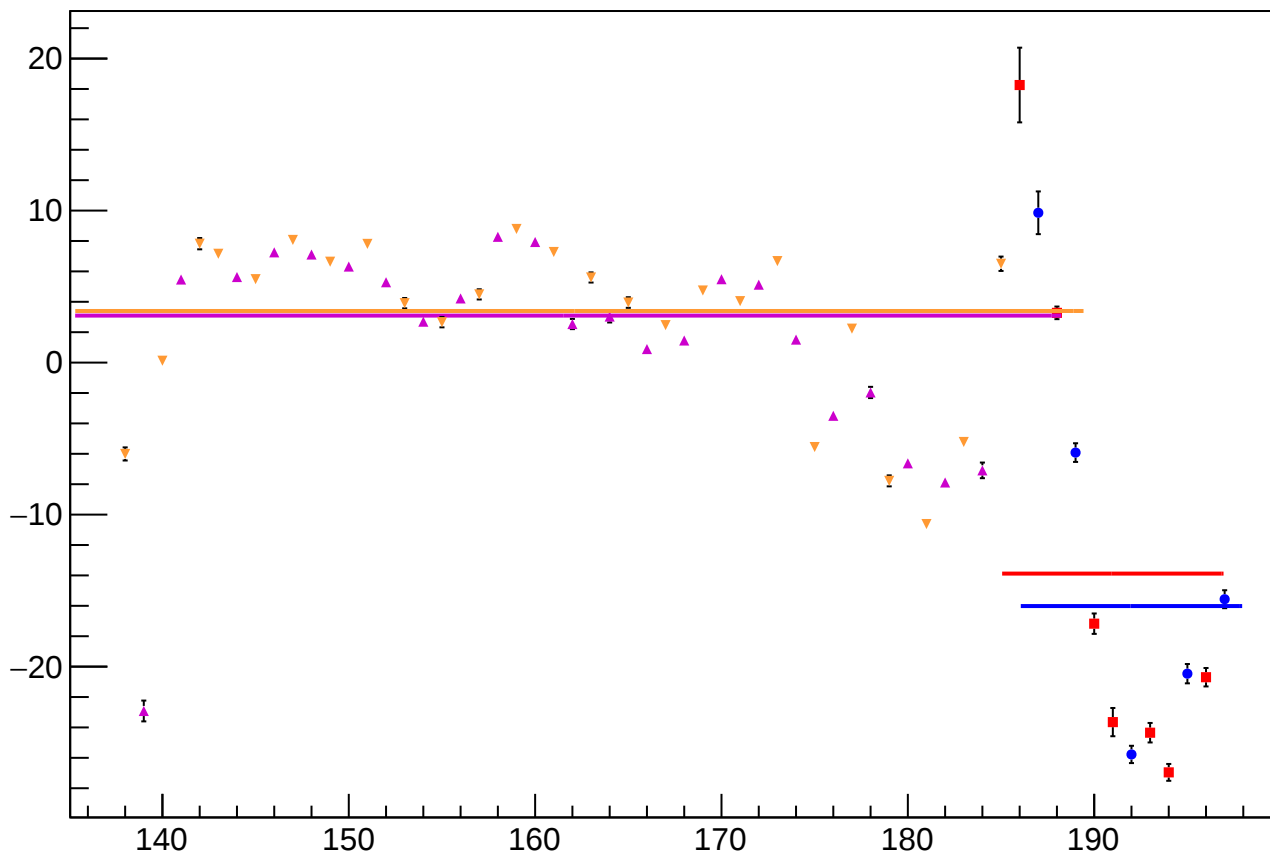
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.356 $\pm$ 0.265 χ^2 /NDF: 40.7/4
 Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24
 Right Out: 0.350 $\pm$ 0.196 χ^2 /NDF: 251.2/6
 Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47
 Right: 0.352 $\pm$ 0.157 χ^2 /NDF: 291.9/11
 In: 12.305 $\pm$ 0.074 χ^2 /NDF:16220.8/27
 Out: 11.506 $\pm$ 0.070 χ^2 /NDF:21057.3/31
 All: 11.884 $\pm$ 0.051 χ^2 /NDF: 37339.3/59

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -16.016 ± 0.294 χ^2/NDF : 953.0/4

Left Out: 3.396 ± 0.058 χ^2/NDF : 8101.5/24

Right Out: -13.880 ± 0.237 χ^2/NDF : 2968.5/6

Left In: 3.092 ± 0.061 χ^2/NDF : 7104.4/22

Left: 3.250 ± 0.042 χ^2/NDF : 15218.9/47

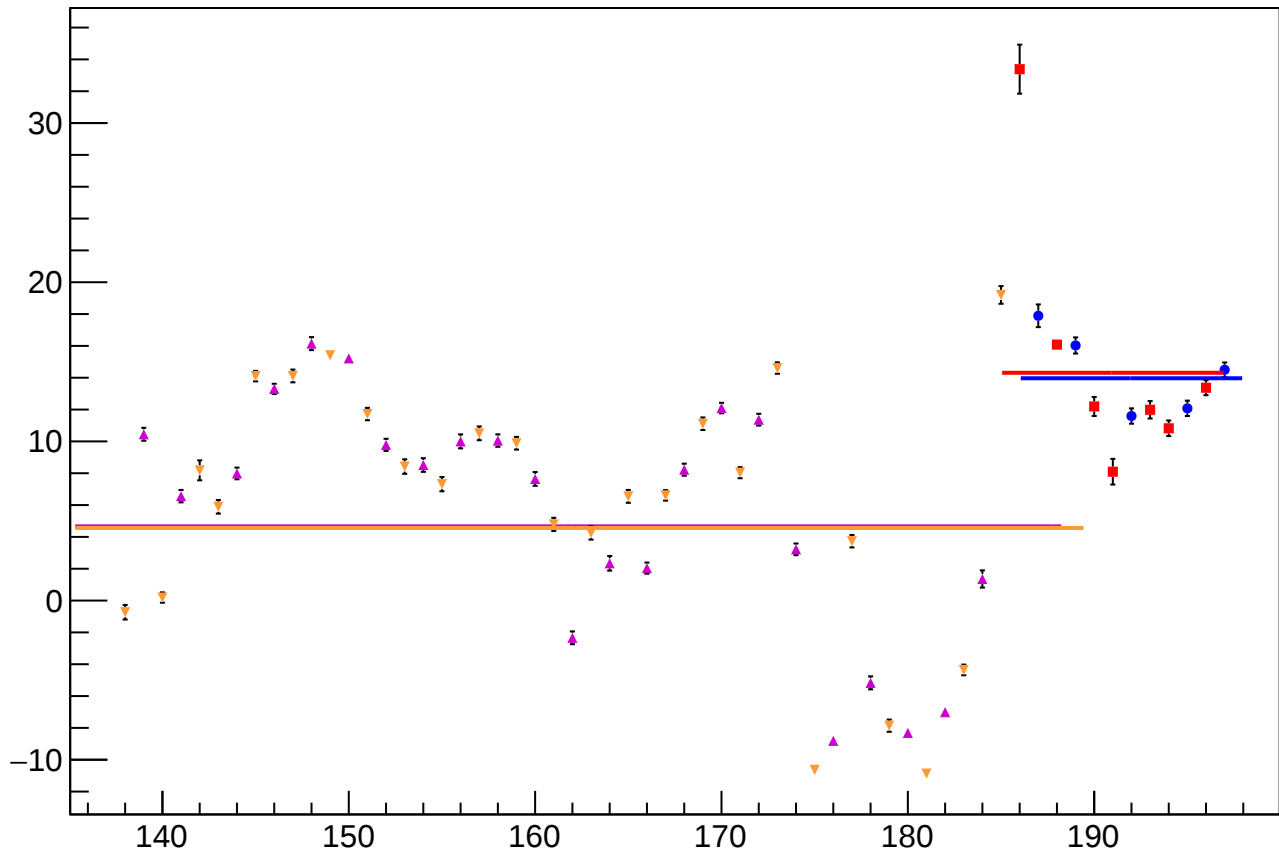
Right: -14.723 ± 0.185 χ^2/NDF : 3953.5/11

In: 2.313 ± 0.059 χ^2/NDF : 12117.1/27

Out: 2.409 ± 0.057 χ^2/NDF : 16071.7/31

All: 2.363 ± 0.041 χ^2/NDF : 28190.2/59

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.966 $\pm$ 0.229 χ^2 /NDF: 87.5/4

Left Out: 4.561 $\pm$ 0.075 χ^2 /NDF:13592.1/24

Right Out: 14.312 $\pm$ 0.167 χ^2 /NDF: 357.3/6

Left In: 4.662 $\pm$ 0.077 χ^2 /NDF:11281.5/22

Left: 4.610 $\pm$ 0.054 χ^2 /NDF: 24874.4/47

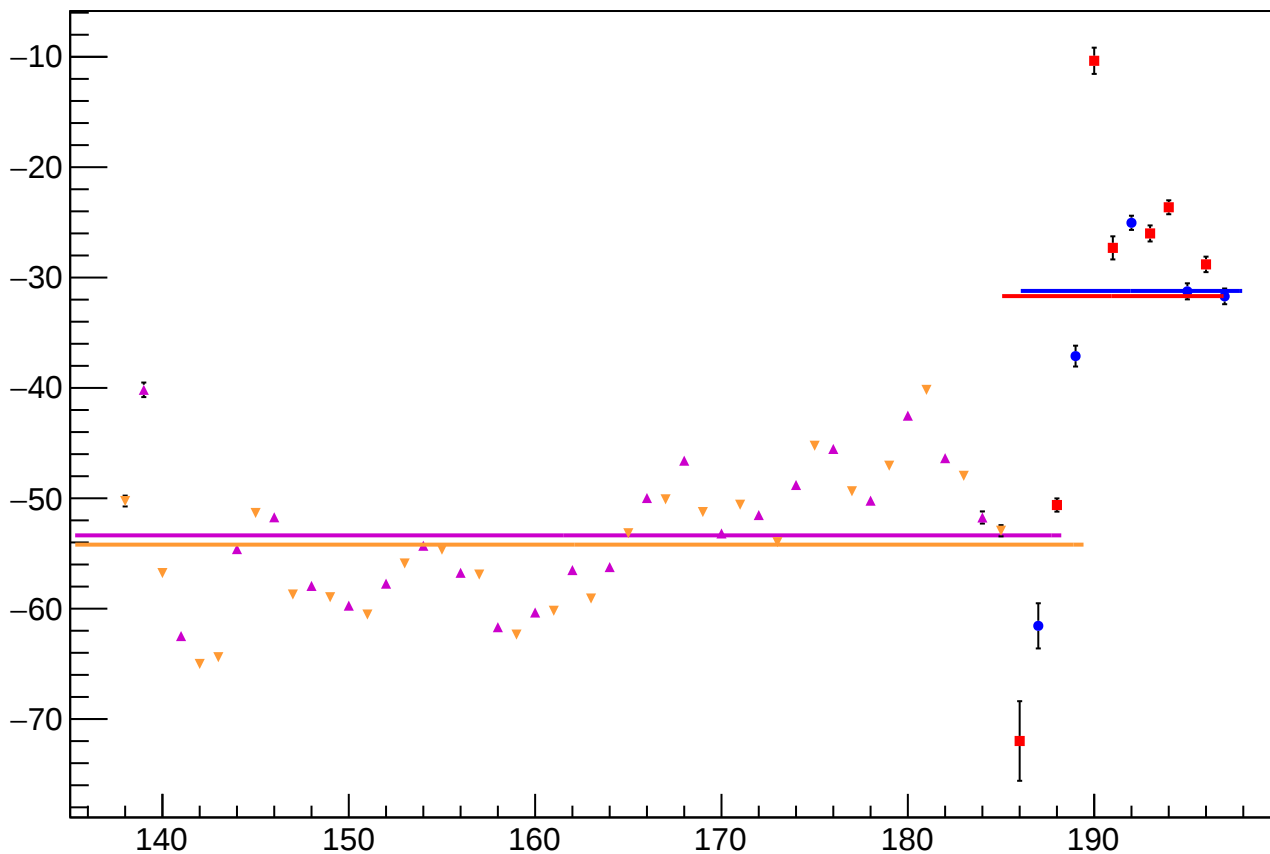
Right: 14.191 $\pm$ 0.135 χ^2 /NDF: 446.3/11

In: 5.606 $\pm$ 0.073 χ^2 /NDF:12857.8/27

Out: 6.212 $\pm$ 0.069 χ^2 /NDF:16781.9/31

All: 5.926 $\pm$ 0.050 χ^2 /NDF: 29676.4/59

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -31.211 ± 0.362 $\chi^2/\text{NDF}: 351.4/4$
 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 $\chi^2/\text{NDF}: 15414.3/47$

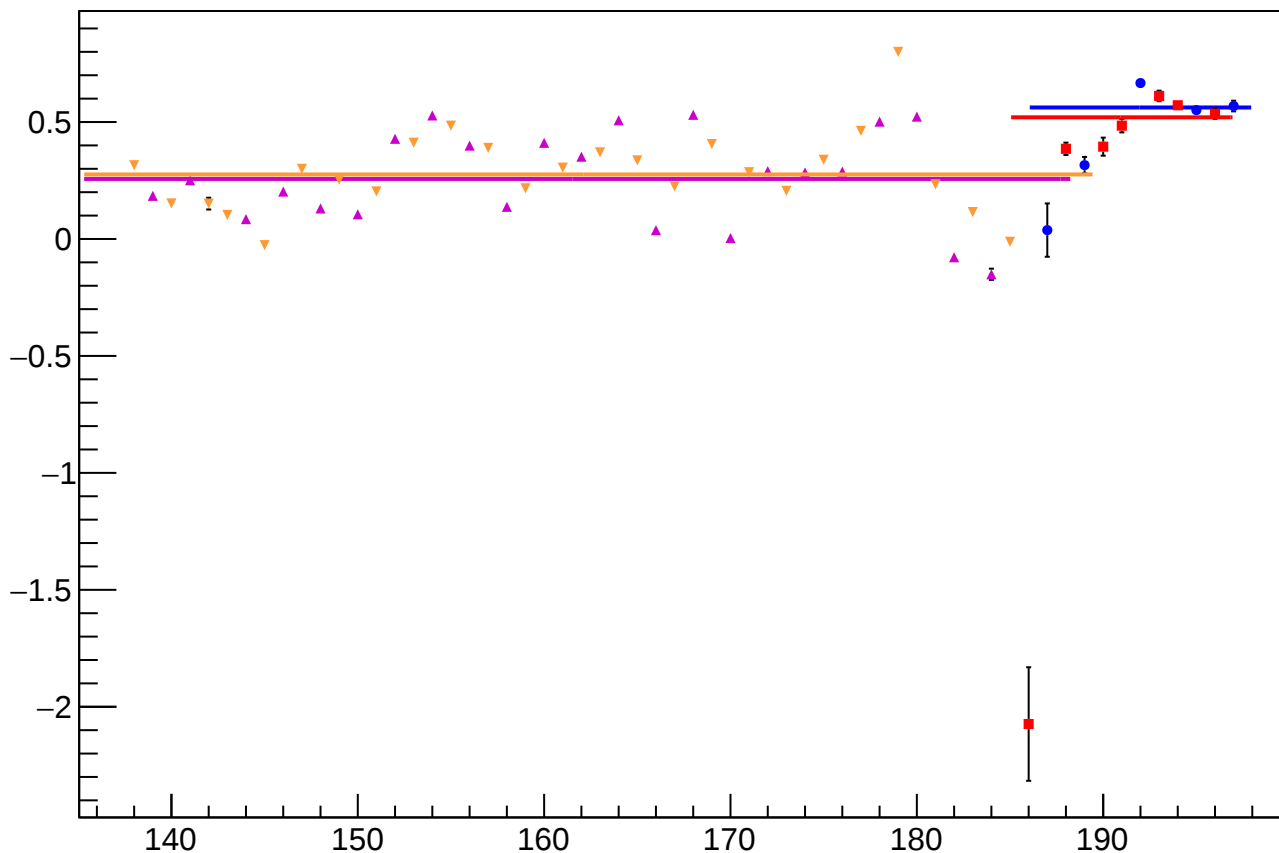
Right: -31.487 ± 0.232 $\chi^2/\text{NDF}: 2055.7/11$

In: -52.593 ± 0.067 $\chi^2/\text{NDF}: 10850.2/27$

Out: -53.165 ± 0.065 $\chi^2/\text{NDF}: 15439.6/31$

All: -52.890 ± 0.047 $\chi^2/\text{NDF}: 26327.3/59$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.562 ± 0.012 $\chi^2/\text{NDF}: 97.1/4$

Left Out: 0.276 ± 0.003 $\chi^2/\text{NDF}: 2623.6/24$

Right Out: 0.520 ± 0.010 $\chi^2/\text{NDF}: 177.2/6$

Left In: 0.257 ± 0.003 $\chi^2/\text{NDF}: 3623.9/22$

Left: 0.266 ± 0.002 $\chi^2/\text{NDF}: 6267.0/47$

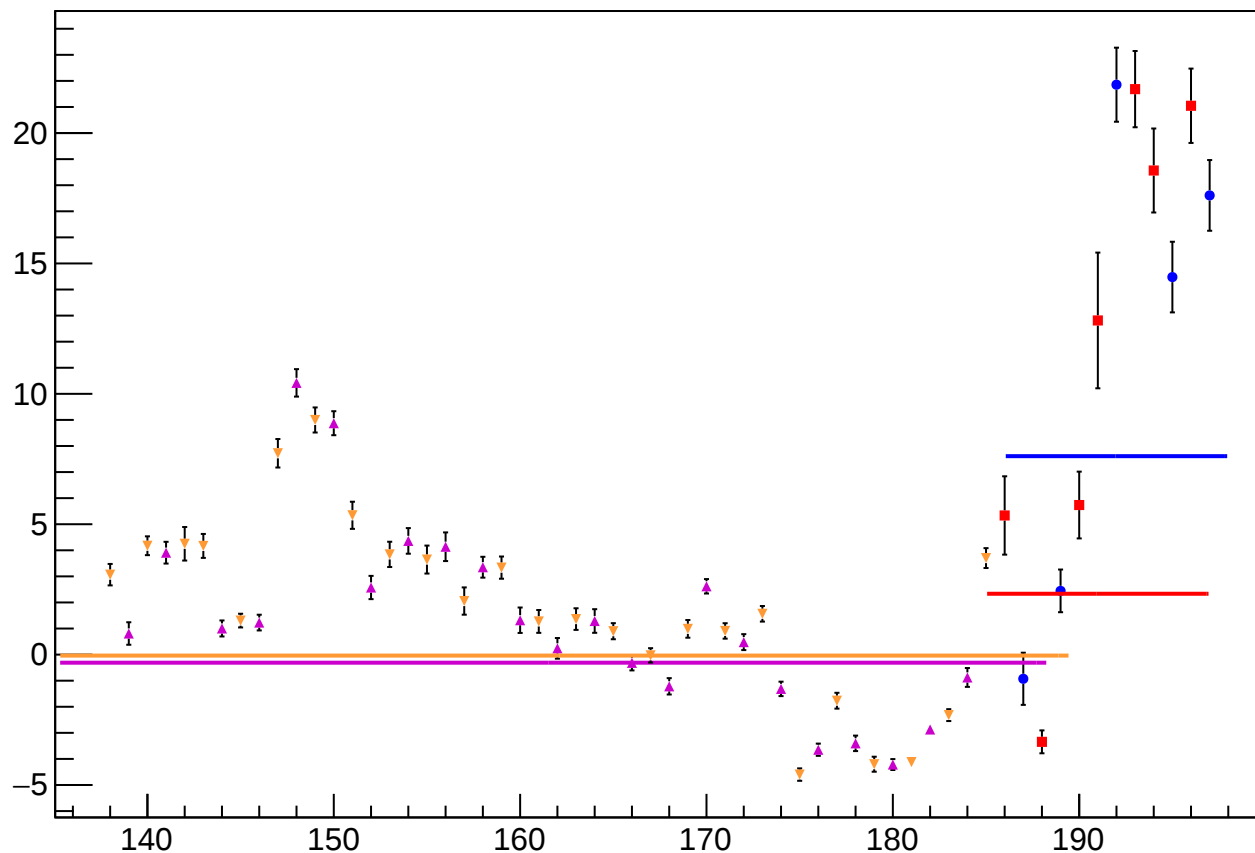
Right: 0.538 ± 0.008 $\chi^2/\text{NDF}: 282.0/11$

In: 0.277 ± 0.003 $\chi^2/\text{NDF}: 4363.8/27$

Out: 0.297 ± 0.003 $\chi^2/\text{NDF}: 3364.2/31$

All: 0.287 ± 0.002 $\chi^2/\text{NDF}: 7751.9/59$

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.610 ± 0.495 χ^2/NDF : 293.4/4

Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24

Right Out: 2.334 ± 0.360 χ^2/NDF : 643.8/6

Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47

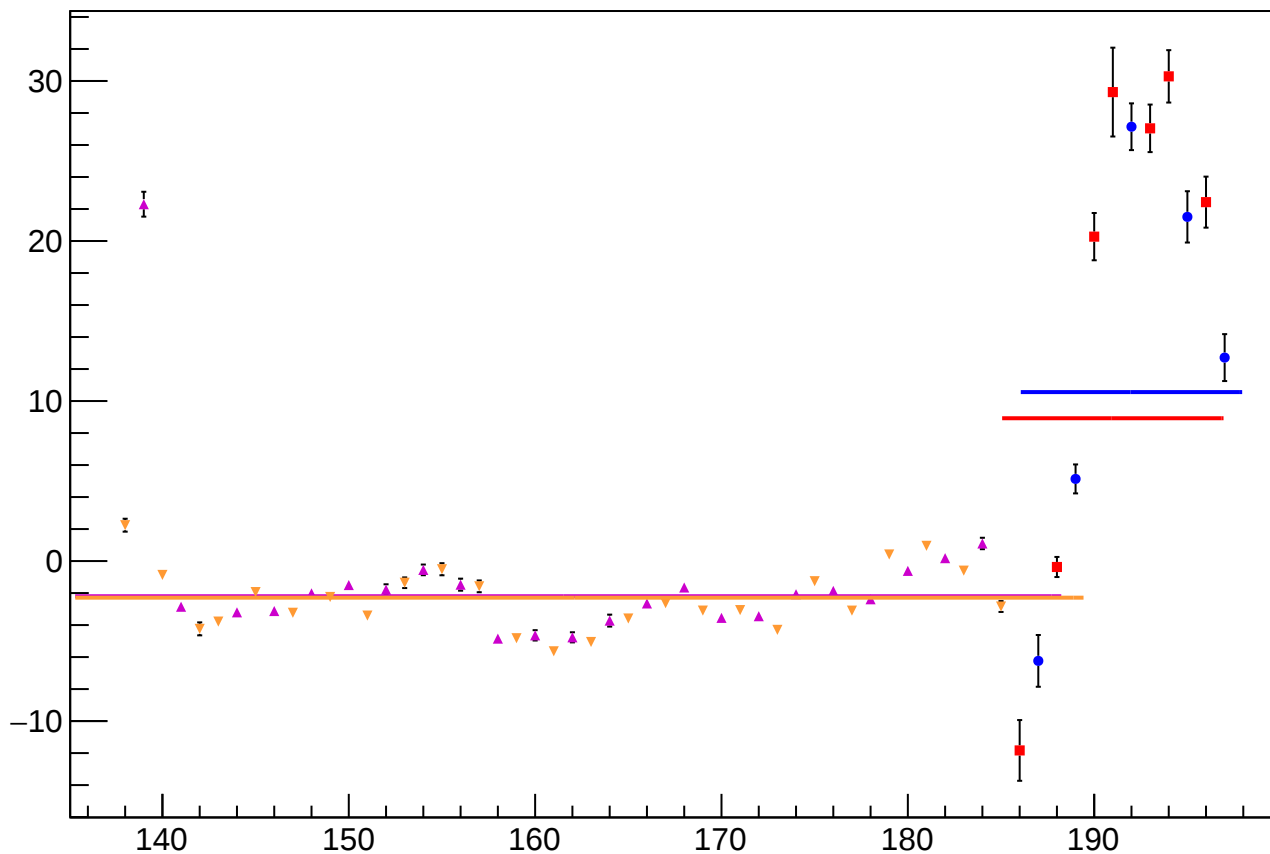
Right: 4.155 ± 0.291 χ^2/NDF : 1011.6/11

In: -0.166 ± 0.067 χ^2/NDF : 2795.1/27

Out: 0.040 ± 0.065 χ^2/NDF : 3323.5/31

All: -0.060 ± 0.047 χ^2/NDF : 6123.5/59

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.559 $\pm$ 0.585 χ^2 /NDF: 321.5/4

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

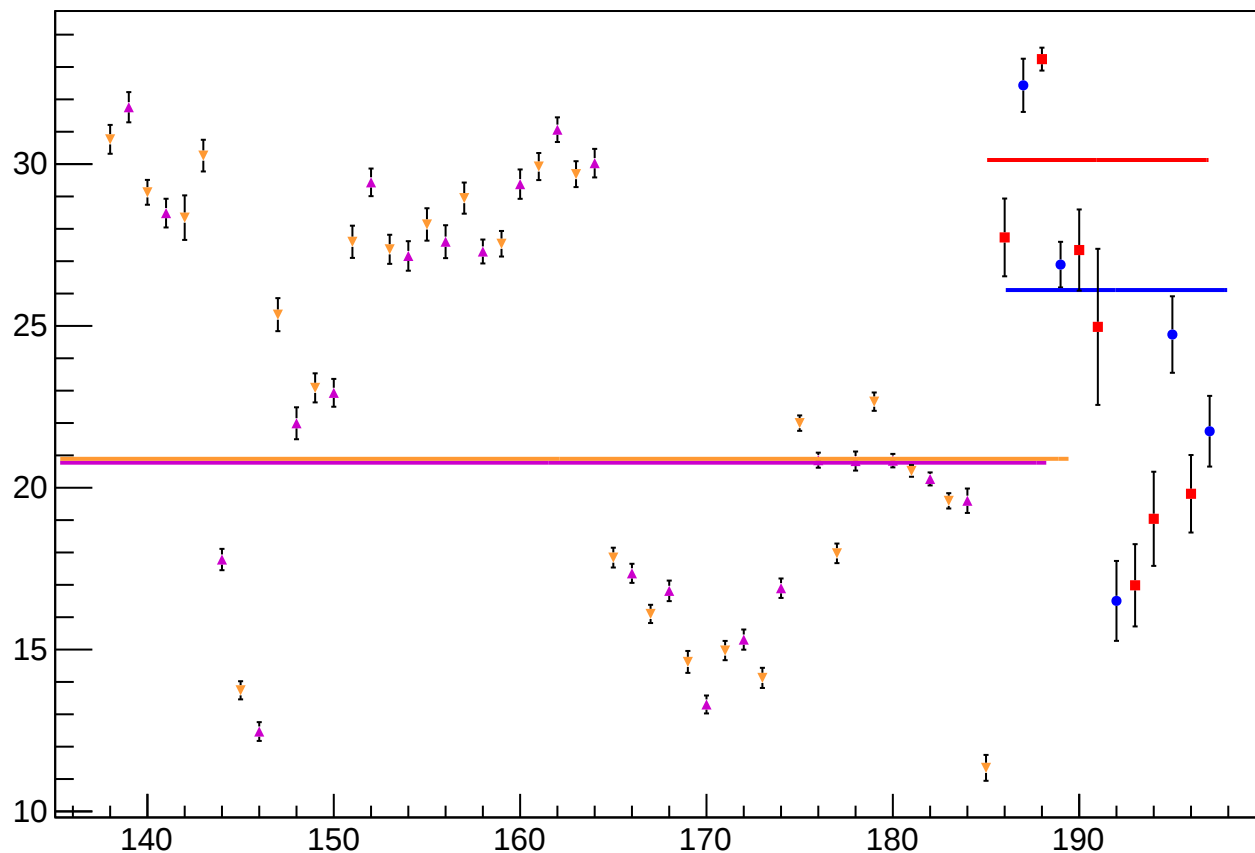
Right: 9.558 $\pm$ 0.364 χ^2 /NDF: 1168.9/11

In: -2.085 $\pm$ 0.055 χ^2 /NDF:2467.3/27

Out: -2.138 $\pm$ 0.054 χ^2 /NDF:2553.7/31

All: -2.112 $\pm$ 0.038 χ^2 /NDF: 5021.4/59

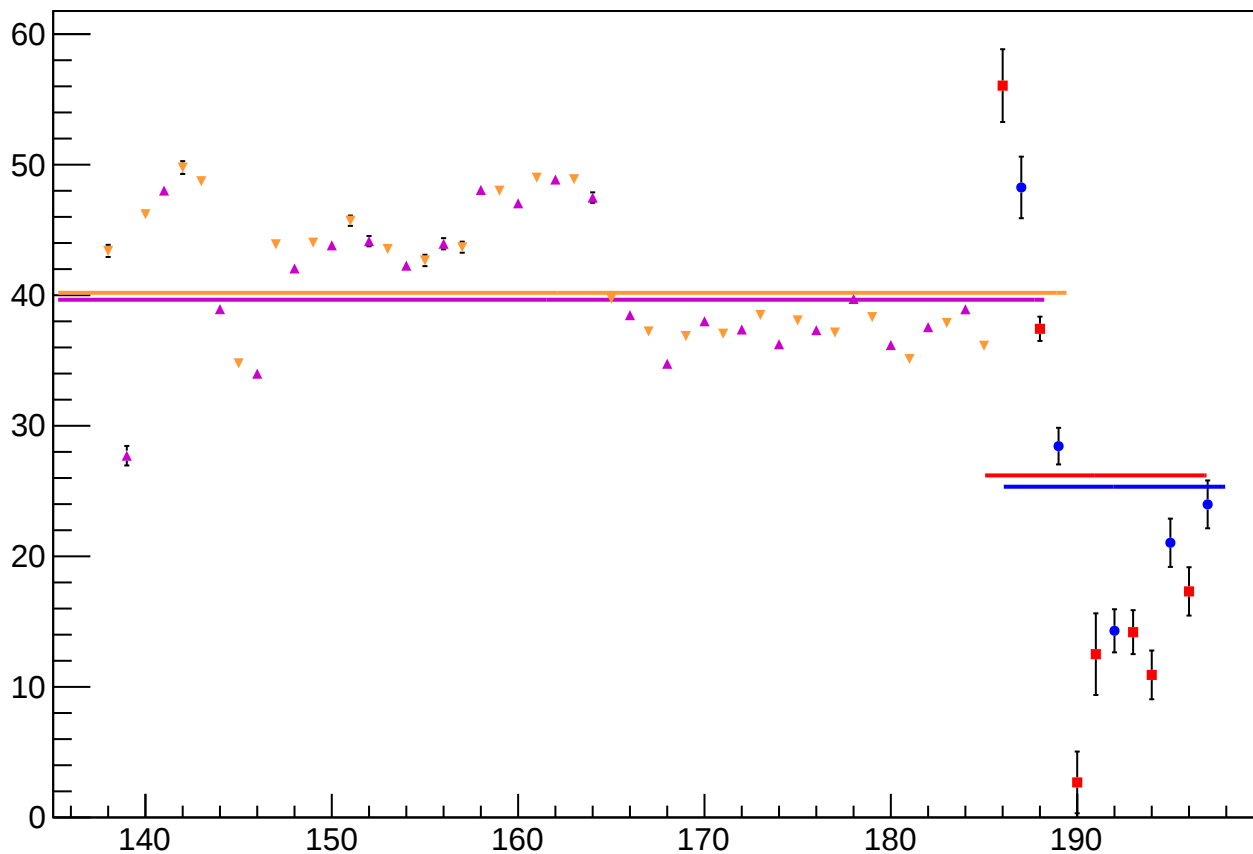
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 26.109 $\pm$ 0.419 χ^2 /NDF: 138.3/4
 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: 28.777 $\pm$ 0.243 χ^2 /NDF: 529.5/11
 In: 20.910 $\pm$ 0.067 χ^2 /NDF: 6224.3/27
 Out: 21.335 $\pm$ 0.065 χ^2 /NDF: 7900.4/31
 All: 21.127 $\pm$ 0.047 χ^2 /NDF: 14145.5/59

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 25.333 $\pm$ 0.780 χ^2 /NDF: 150.0/4

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

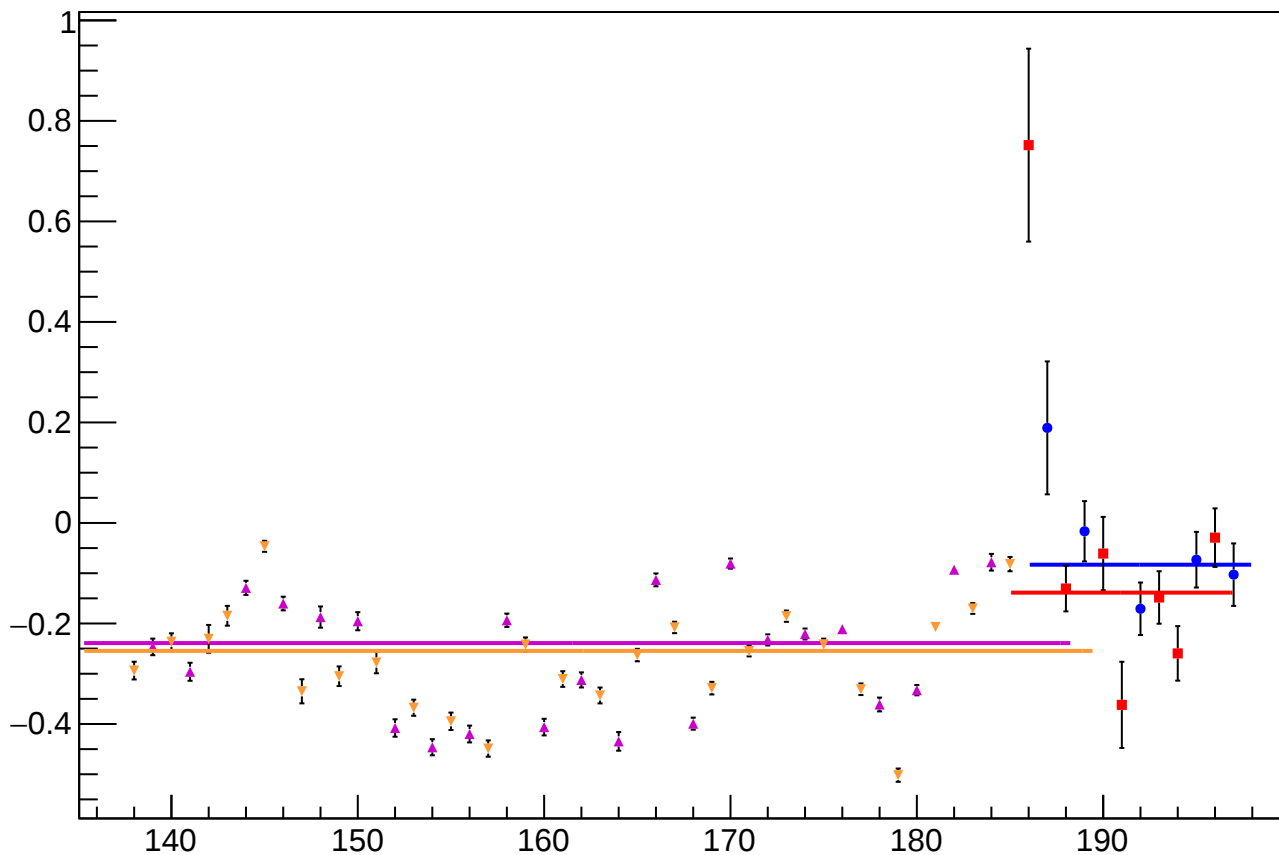
Right: 25.855 $\pm$ 0.491 χ^2 /NDF: 670.2/11

In: 39.567 $\pm$ 0.061 χ^2 /NDF: 5783.9/27

Out: 40.060 $\pm$ 0.060 χ^2 /NDF: 6936.3/31

All: 39.818 $\pm$ 0.043 χ^2 /NDF: 12753.2/59

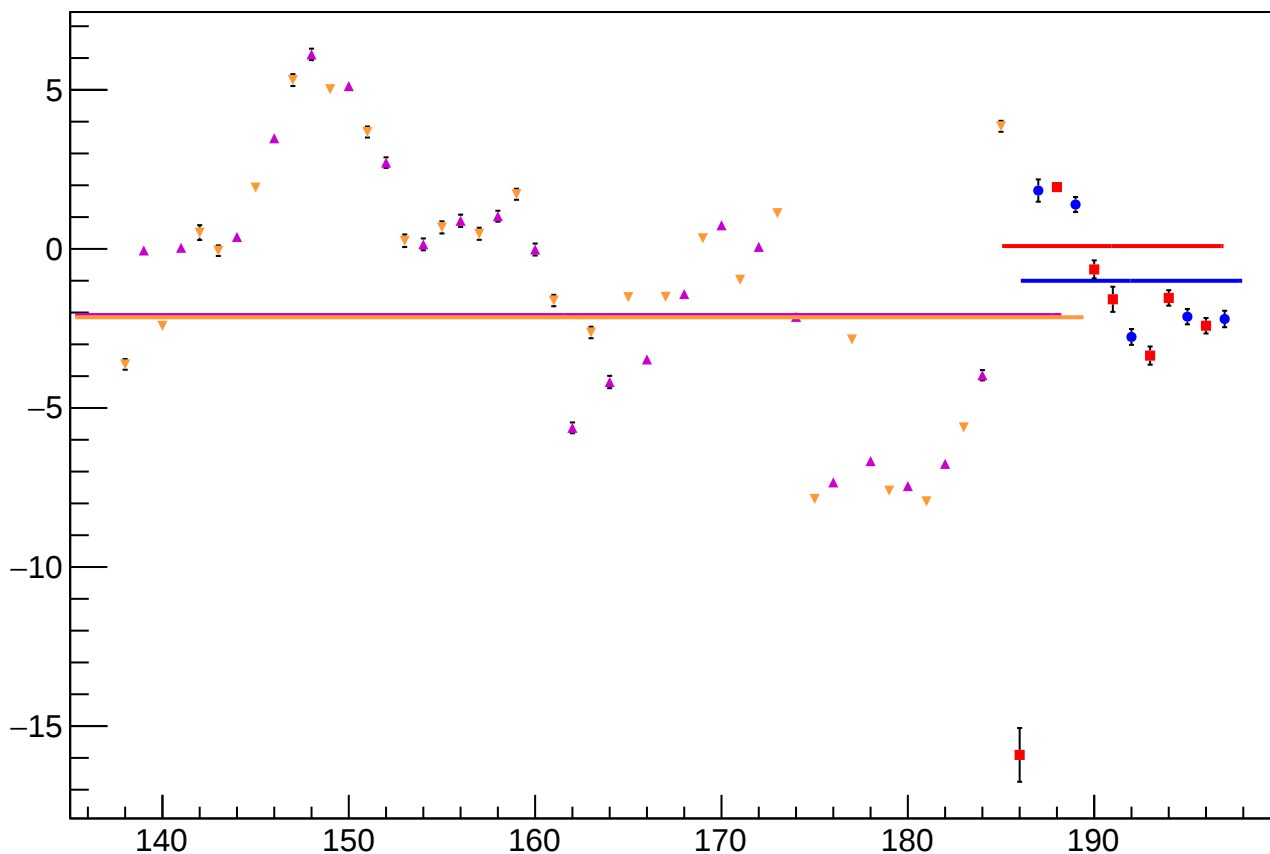
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.083 ± 0.028 χ^2/NDF : 8.4/4
 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: -0.116 ± 0.018 χ^2/NDF : 48.8/11
 In: -0.237 ± 0.003 χ^2/NDF : 1789.9/27
 Out: -0.253 ± 0.003 χ^2/NDF : 1482.8/31
 All: -0.245 ± 0.002 χ^2/NDF : 3288.6/59

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

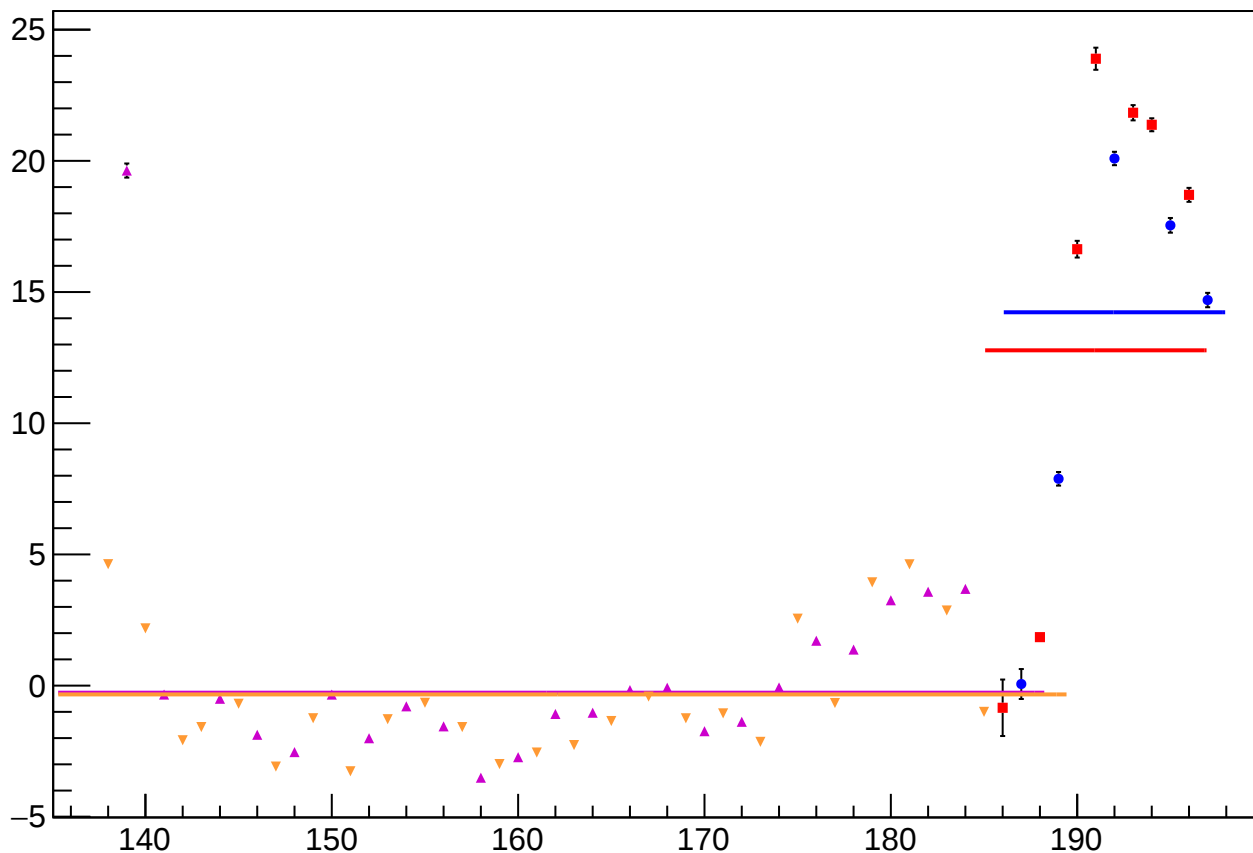


Right In: -1.002 ± 0.116 χ^2/NDF : 260.8/4
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: 0.089 ± 0.082 χ^2/NDF : 964.1/6
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.272 ± 0.067 χ^2/NDF : 1283.8/11
 In: -2.027 ± 0.025 χ^2/NDF : 23588.1/27
 Out: -1.949 ± 0.024 χ^2/NDF : 26181.5/31

All: -1.986 ± 0.018 χ^2/NDF : 49774.5/59

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.229+/-0.130 χ^2/NDF : 1884.5/4

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

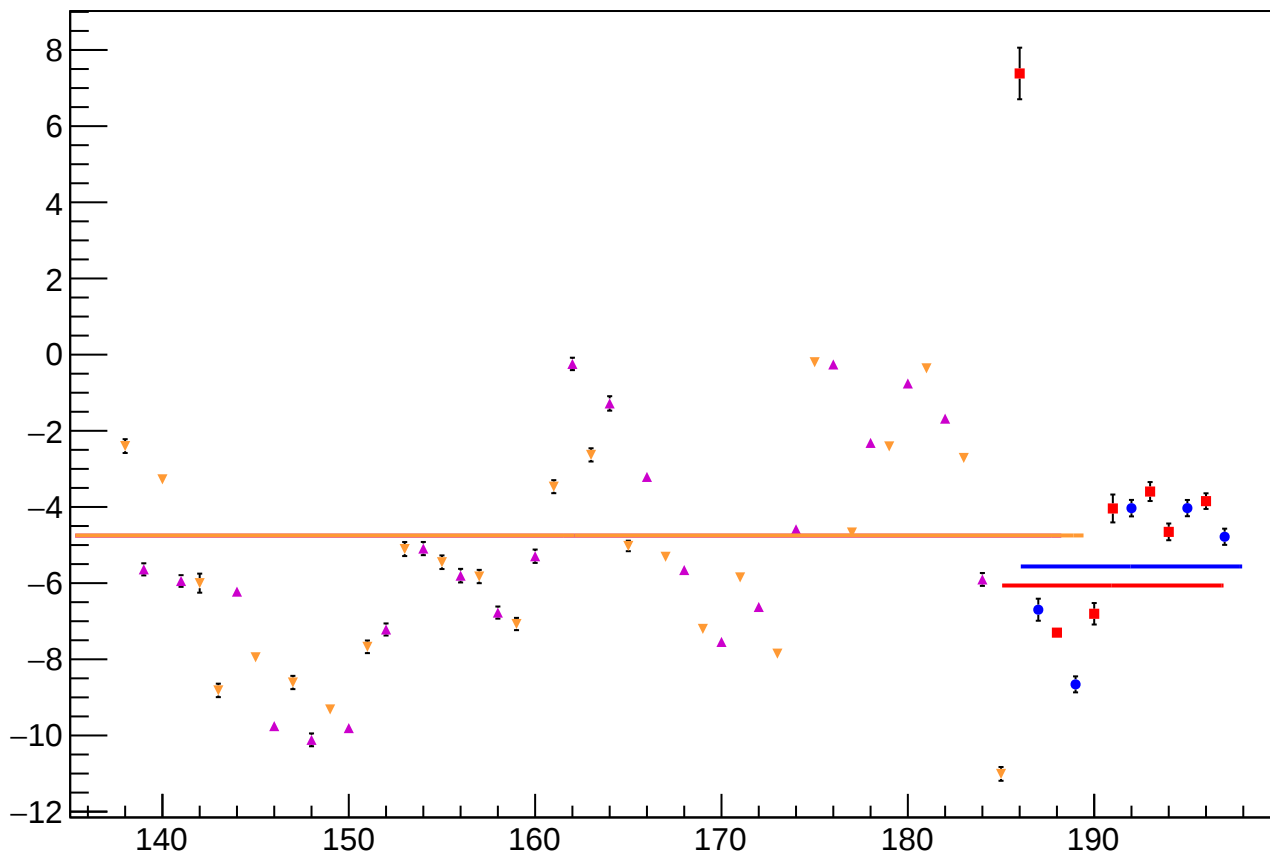
Right: 13.329+/-0.080 χ^2/NDF : 10220.2/11

In: 0.098+/-0.021 χ^2/NDF : 27348.1/27

Out: 0.182+/-0.020 χ^2/NDF : 36875.2/31

All: 0.141+/-0.014 χ^2/NDF : 64231.8/59

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



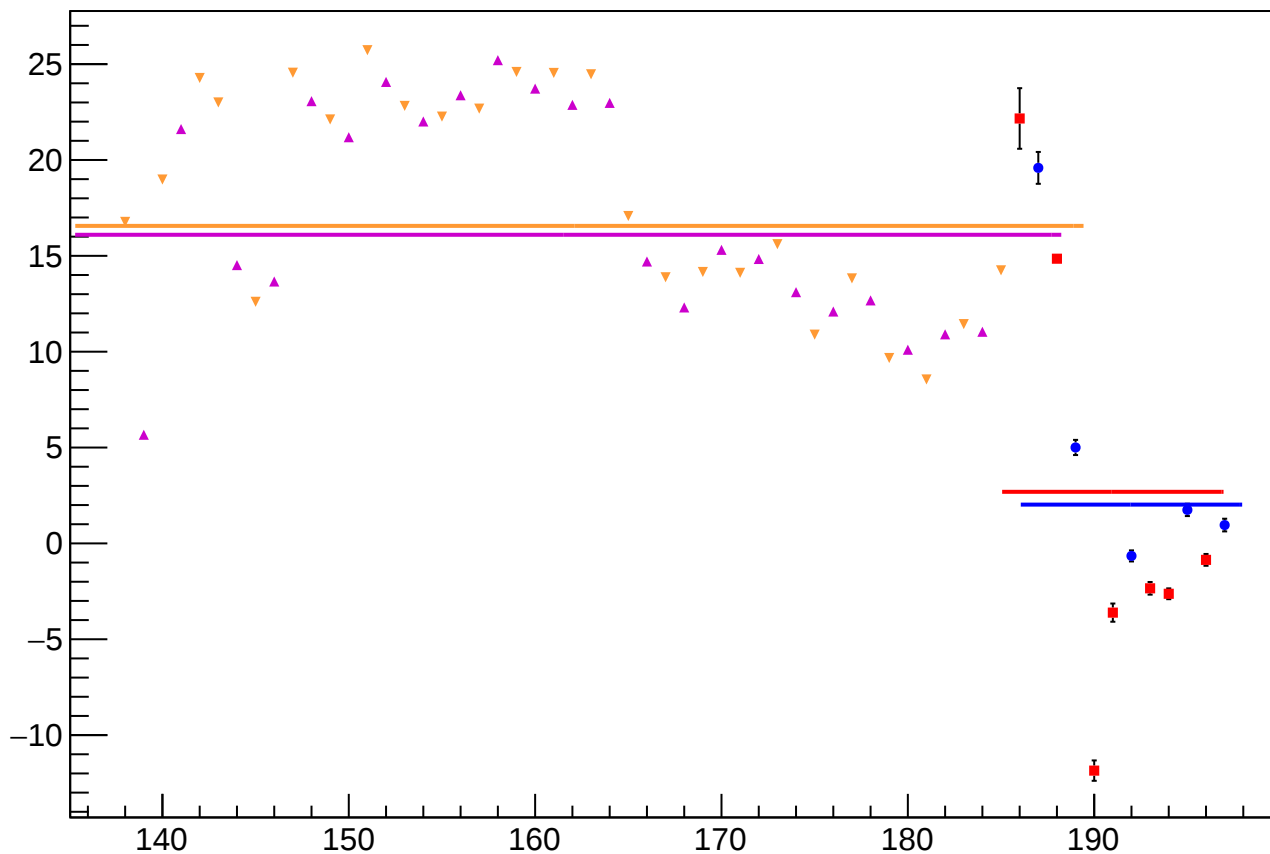
Right In: -5.562 $\pm$ 0.100 χ^2 /NDF: 347.2/4
 Left Out: -4.748 $\pm$ 0.026 χ^2 /NDF:13289.8/24
 Right Out: -6.062 $\pm$ 0.069 χ^2 /NDF: 881.0/6
 Left In: -4.753 $\pm$ 0.026 χ^2 /NDF:14119.2/22

Left: -4.751 $\pm$ 0.018 χ^2 /NDF: 27409.0/47
 Right: -5.901 $\pm$ 0.057 χ^2 /NDF: 1245.2/11

In: -4.805 $\pm$ 0.025 χ^2 /NDF:14527.7/27
 Out: -4.909 $\pm$ 0.024 χ^2 /NDF:14488.0/31

All: -4.859 $\pm$ 0.017 χ^2 /NDF: 29024.6/59

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.023+/-0.161 χ^2/NDF : 600.3/4

Left Out: 16.563+/-0.023 χ^2/NDF : 53858.5/24

Right Out: 2.691+/-0.130 χ^2/NDF : 4500.3/6

Left In: 16.098+/-0.024 χ^2/NDF : 42345.7/22

Left: 16.335+/-0.017 χ^2/NDF : 96401.9/47

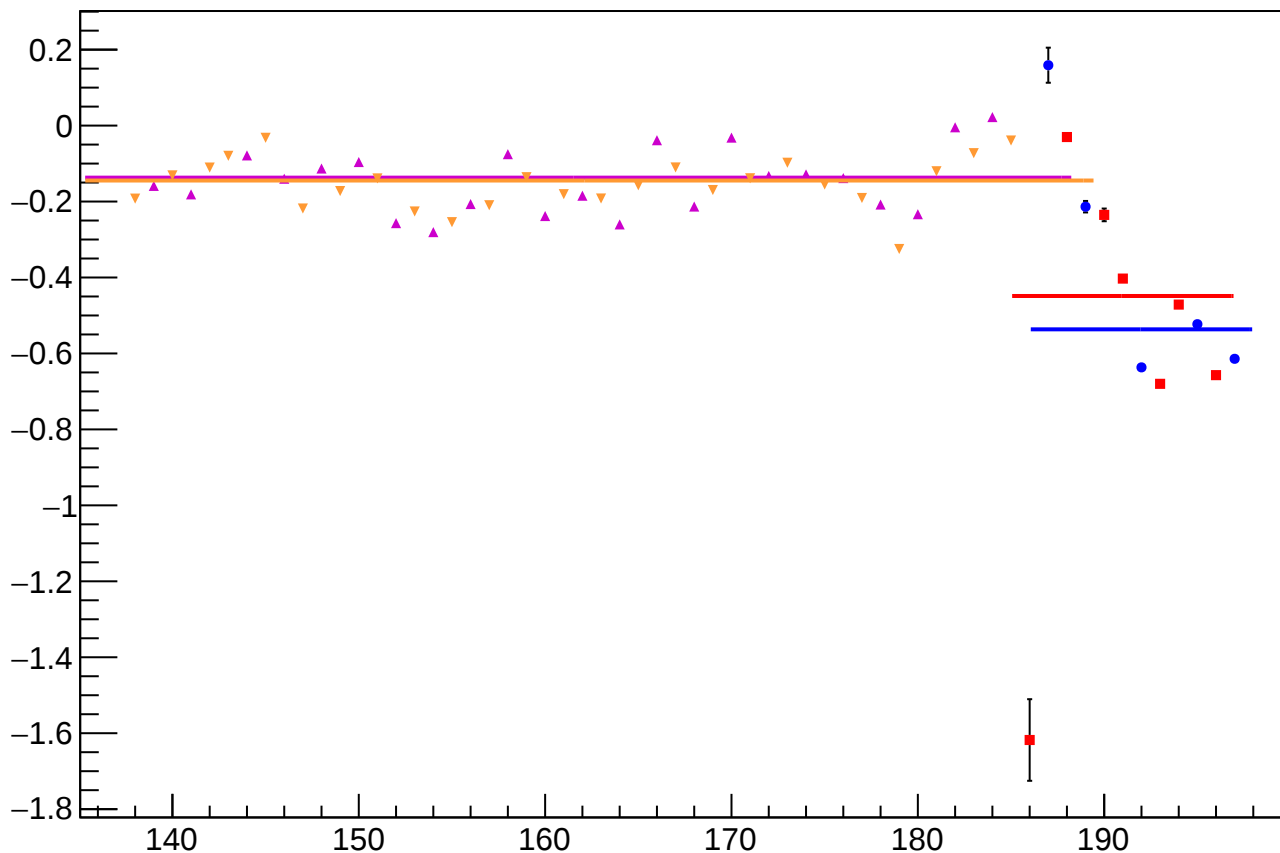
Right: 2.427+/-0.101 χ^2/NDF : 5110.9/11

In: 15.803+/-0.023 χ^2/NDF : 50436.1/27

Out: 16.138+/-0.023 χ^2/NDF : 69354.7/31

All: 15.974+/-0.016 χ^2/NDF : 119896.5/59

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.537 ± 0.005 χ^2/NDF : 858.3/4

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

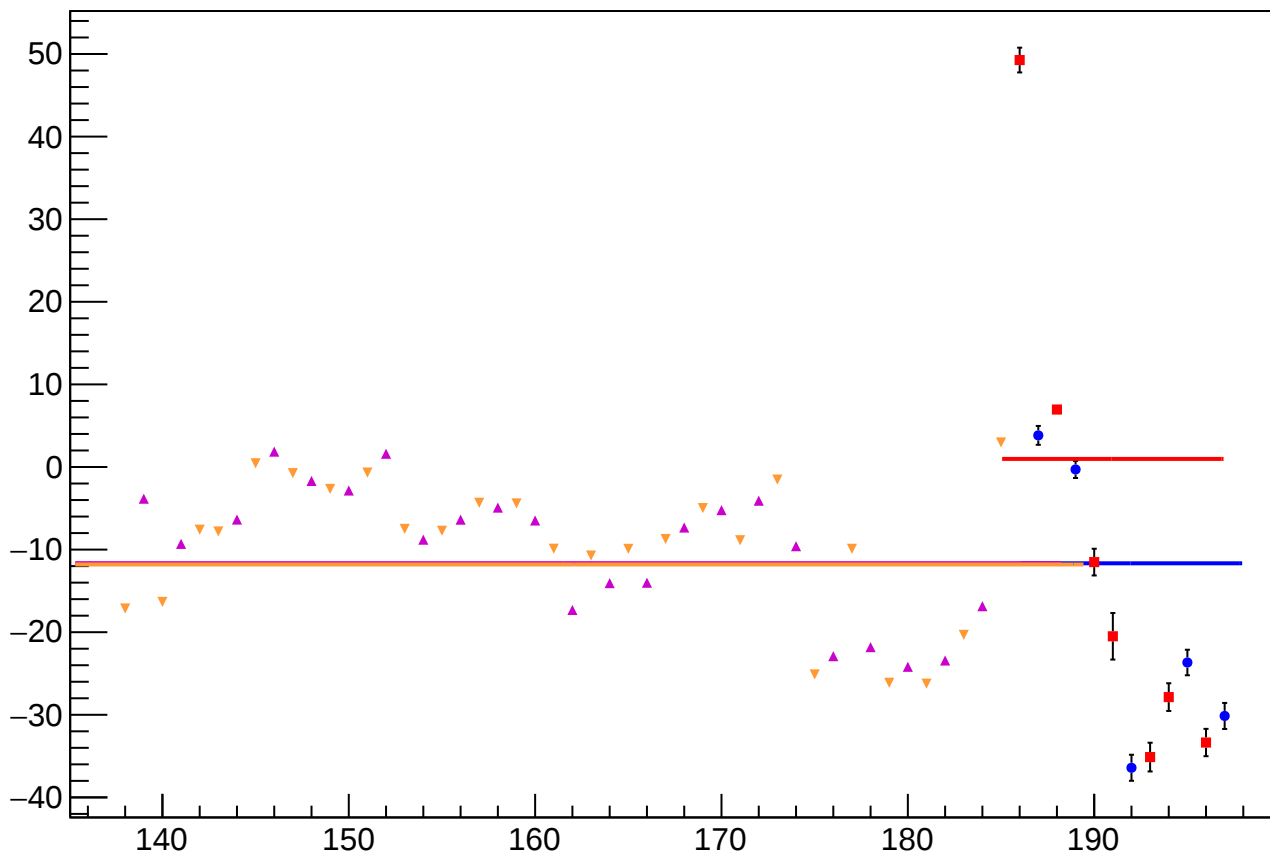
Right: -0.484 ± 0.003 χ^2/NDF : 3921.7/11

In: -0.153 ± 0.001 χ^2/NDF : 11870.6/27

Out: -0.162 ± 0.001 χ^2/NDF : 11370.8/31

All: -0.158 ± 0.001 χ^2/NDF : 23275.9/59

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.659 ± 0.585 $\chi^2/\text{NDF}: 748.4/4$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: 0.979 ± 0.427 $\chi^2/\text{NDF}: 2435.3/6$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

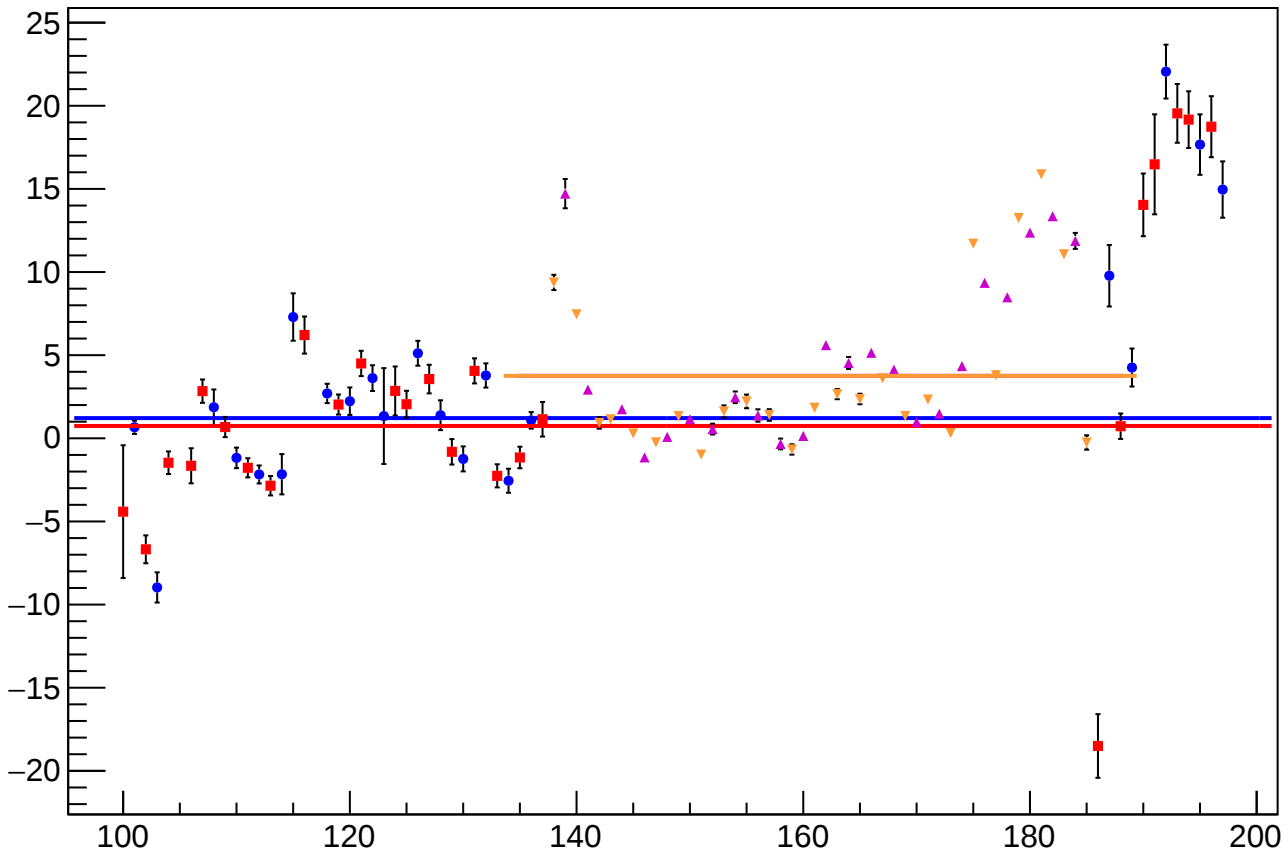
Right: -3.417 ± 0.345 $\chi^2/\text{NDF}: 3487.8/11$

In: -11.642 ± 0.071 $\chi^2/\text{NDF}: 14869.6/27$

Out: -11.465 ± 0.069 $\chi^2/\text{NDF}: 20614.0/31$

All: -11.551 ± 0.050 $\chi^2/\text{NDF}: 35486.8/59$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.215 ± 0.165 χ^2/NDF : 645.0/21

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

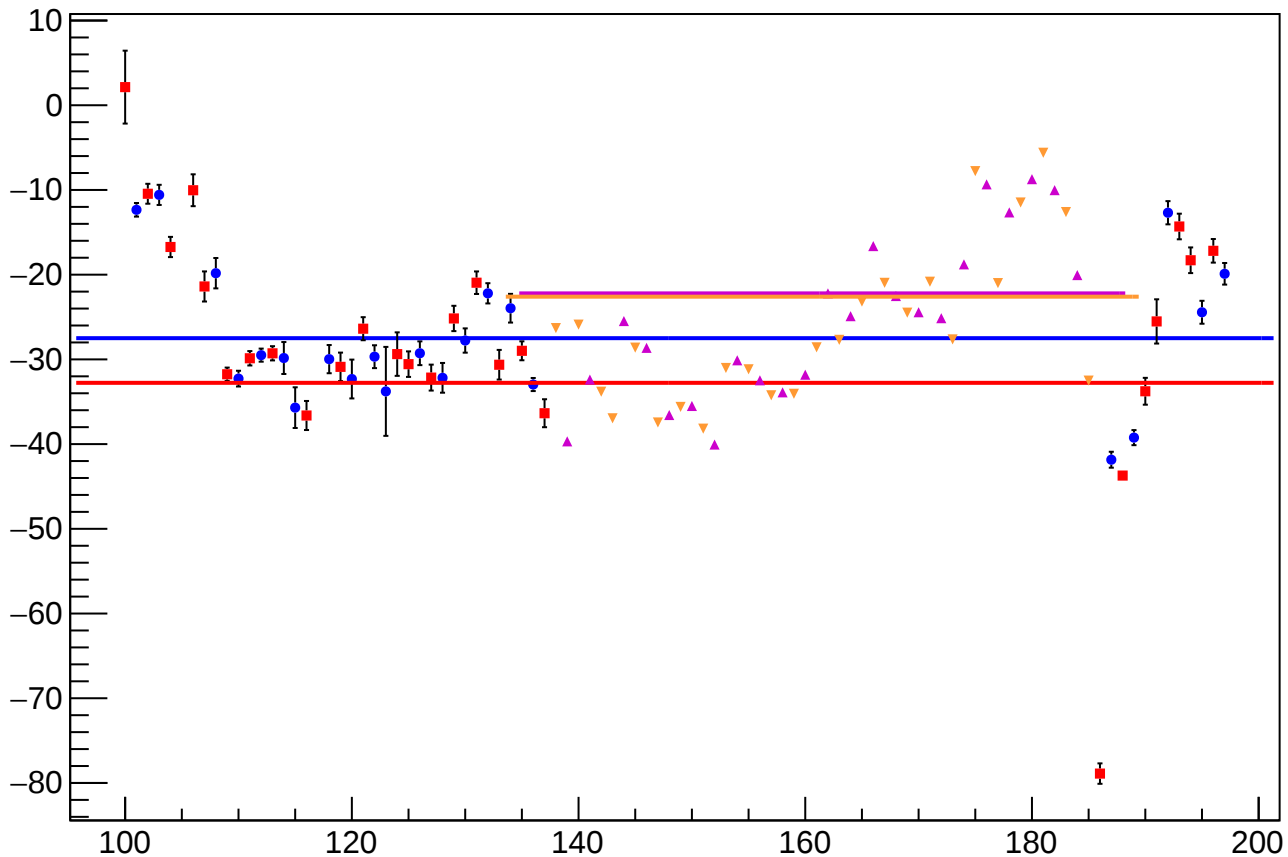
Right: 0.981 ± 0.117 χ^2/NDF : 1434.2/47

In: 3.491 ± 0.054 χ^2/NDF : 6485.5/44

Out: 3.455 ± 0.053 χ^2/NDF : 8530.4/50

All: 3.473 ± 0.038 χ^2/NDF : 15016.1/95

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

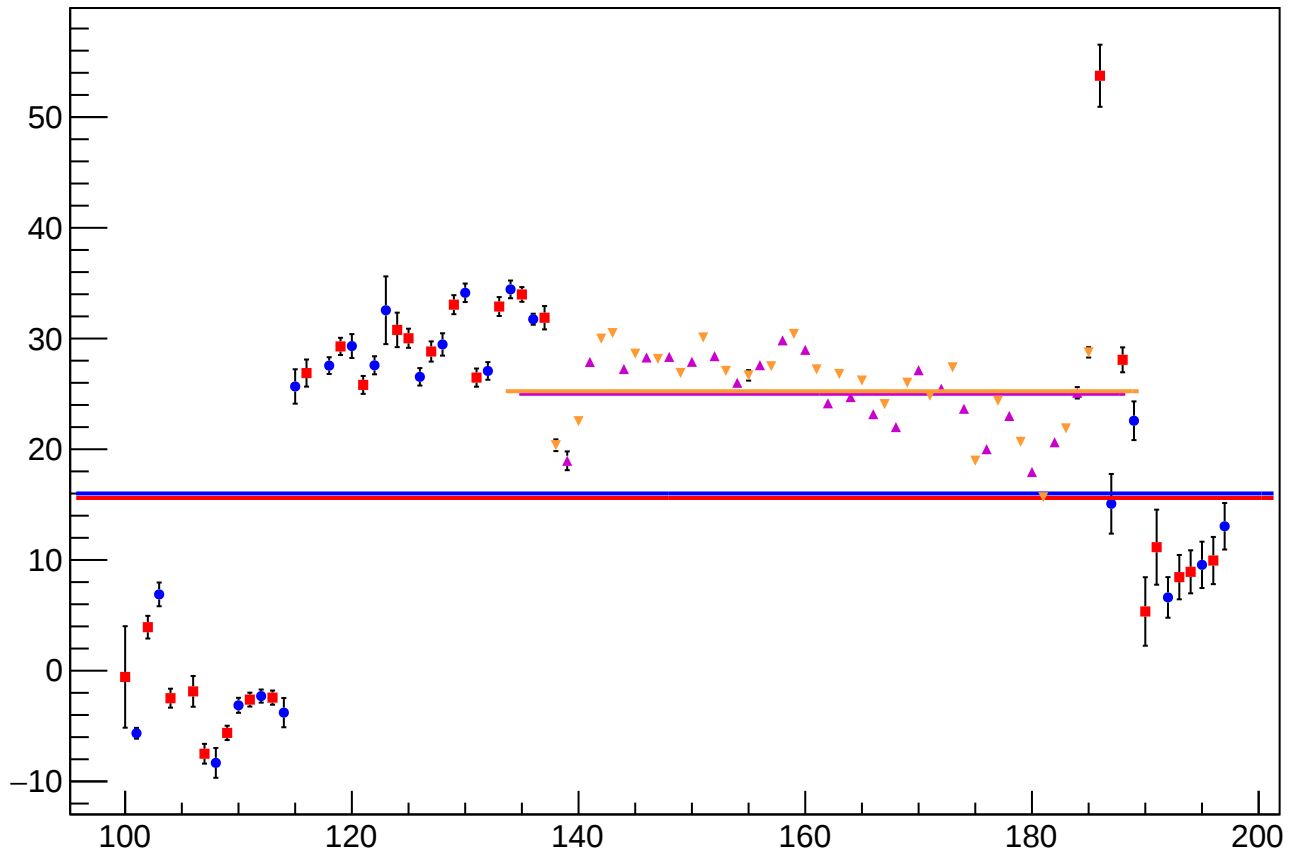
Right: -30.444 ± 0.171 $\chi^2/\text{NDF}: 4972.1/47$

In: -22.590 ± 0.069 $\chi^2/\text{NDF}: 19301.4/44$

Out: -23.488 ± 0.068 $\chi^2/\text{NDF}: 25200.4/50$

All: -23.048 ± 0.048 $\chi^2/\text{NDF}: 44588.5/95$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.007 ± 0.188 χ^2/NDF : 7594.4/21

Left Out: 25.242 ± 0.063 χ^2/NDF : 3786.5/24

Right Out: 15.597 ± 0.191 χ^2/NDF : 7616.2/25

Left In: 25.009 ± 0.064 χ^2/NDF : 2722.0/22

Left: 25.128 ± 0.045 χ^2/NDF : 6515.2/47

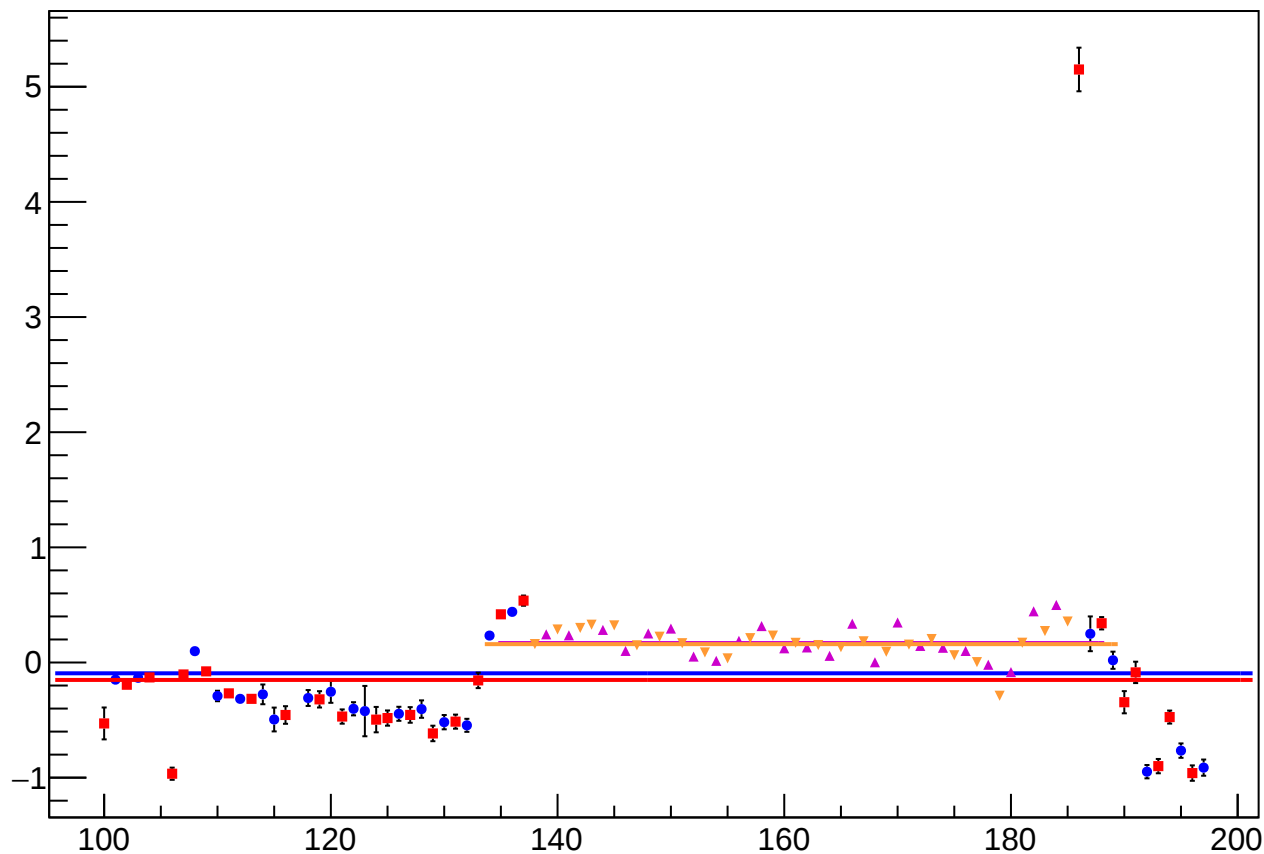
Right: 15.805 ± 0.134 χ^2/NDF : 15212.9/47

In: 24.080 ± 0.060 χ^2/NDF : 12368.0/44

Out: 24.303 ± 0.059 χ^2/NDF : 13712.8/50

All: 24.193 ± 0.042 χ^2/NDF : 26087.6/95

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.094 ± 0.010 χ^2/NDF : 1520.3/21

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

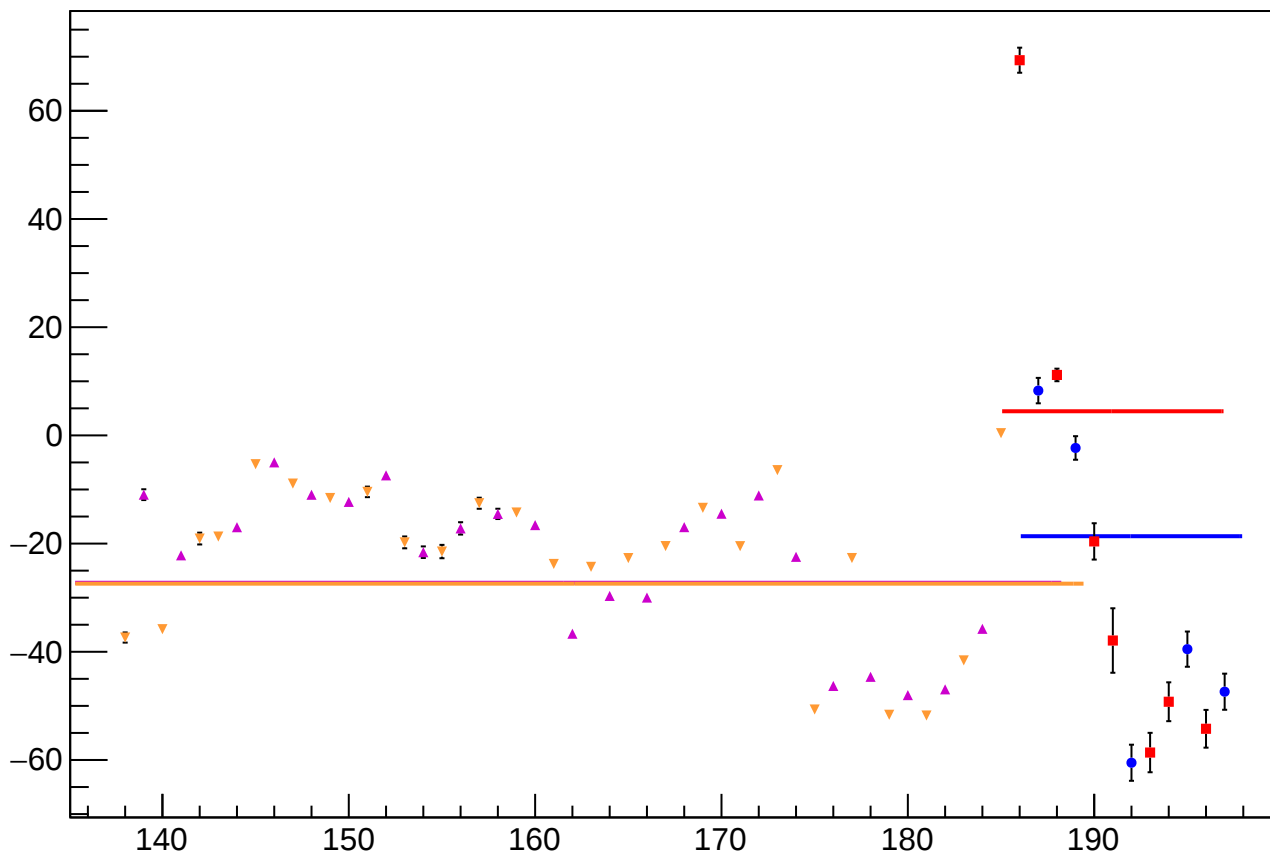
Right: -0.123 ± 0.007 χ^2/NDF : 3897.2/47

In: 0.148 ± 0.003 χ^2/NDF : 4594.2/44

Out: 0.134 ± 0.003 χ^2/NDF : 5170.8/50

All: 0.141 ± 0.002 χ^2/NDF : 9776.7/95

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.636 ± 1.226 $\chi^2/\text{NDF}: 460.0/4$
 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 $\chi^2/\text{NDF}: 26156.4/47$

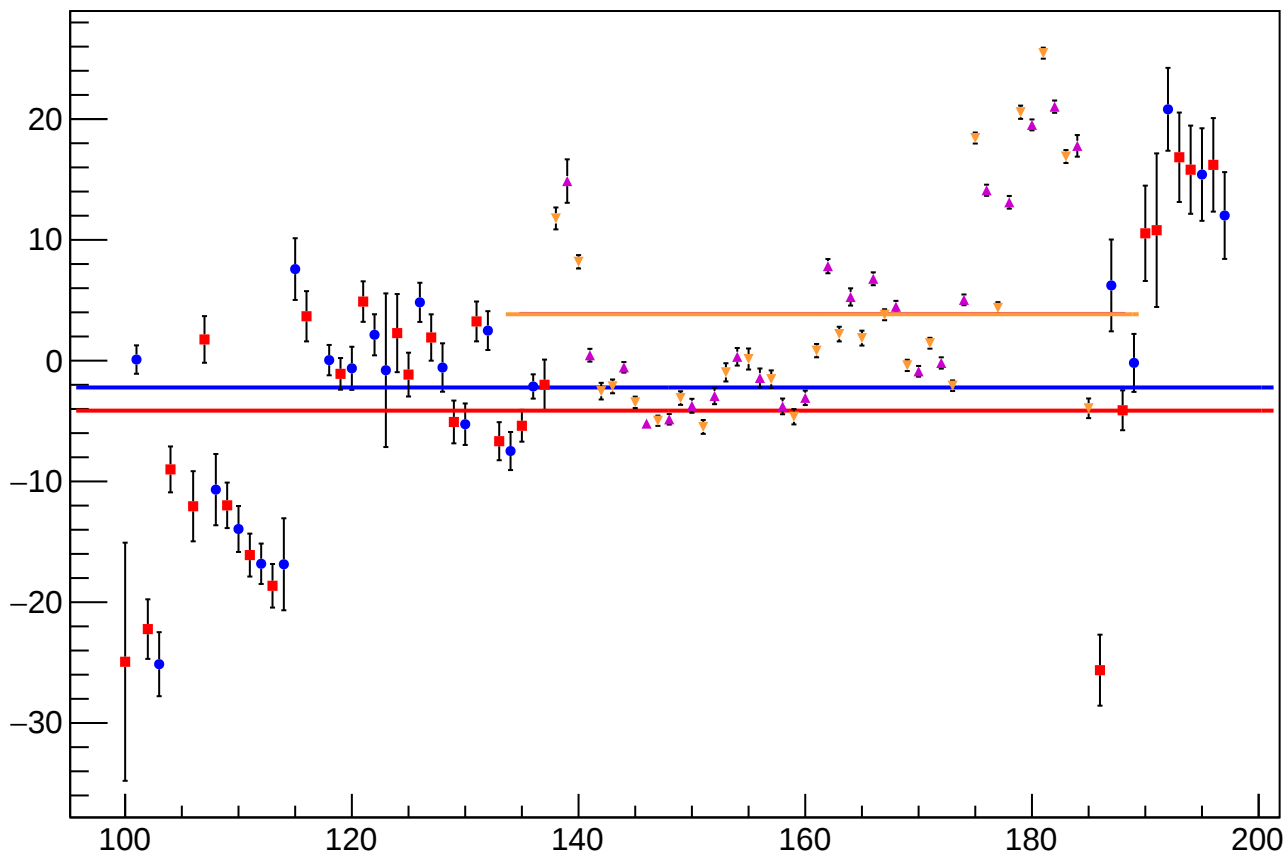
Right: -3.442 ± 0.717 $\chi^2/\text{NDF}: 2419.4/11$

In: -27.133 ± 0.138 $\chi^2/\text{NDF}: 11813.9/27$

Out: -26.662 ± 0.135 $\chi^2/\text{NDF}: 17845.7/31$

All: -26.892 ± 0.097 $\chi^2/\text{NDF}: 29665.5/59$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.220 ± 0.396 χ^2/NDF : 371.0/21

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -4.138 ± 0.399 χ^2/NDF : 461.0/25

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

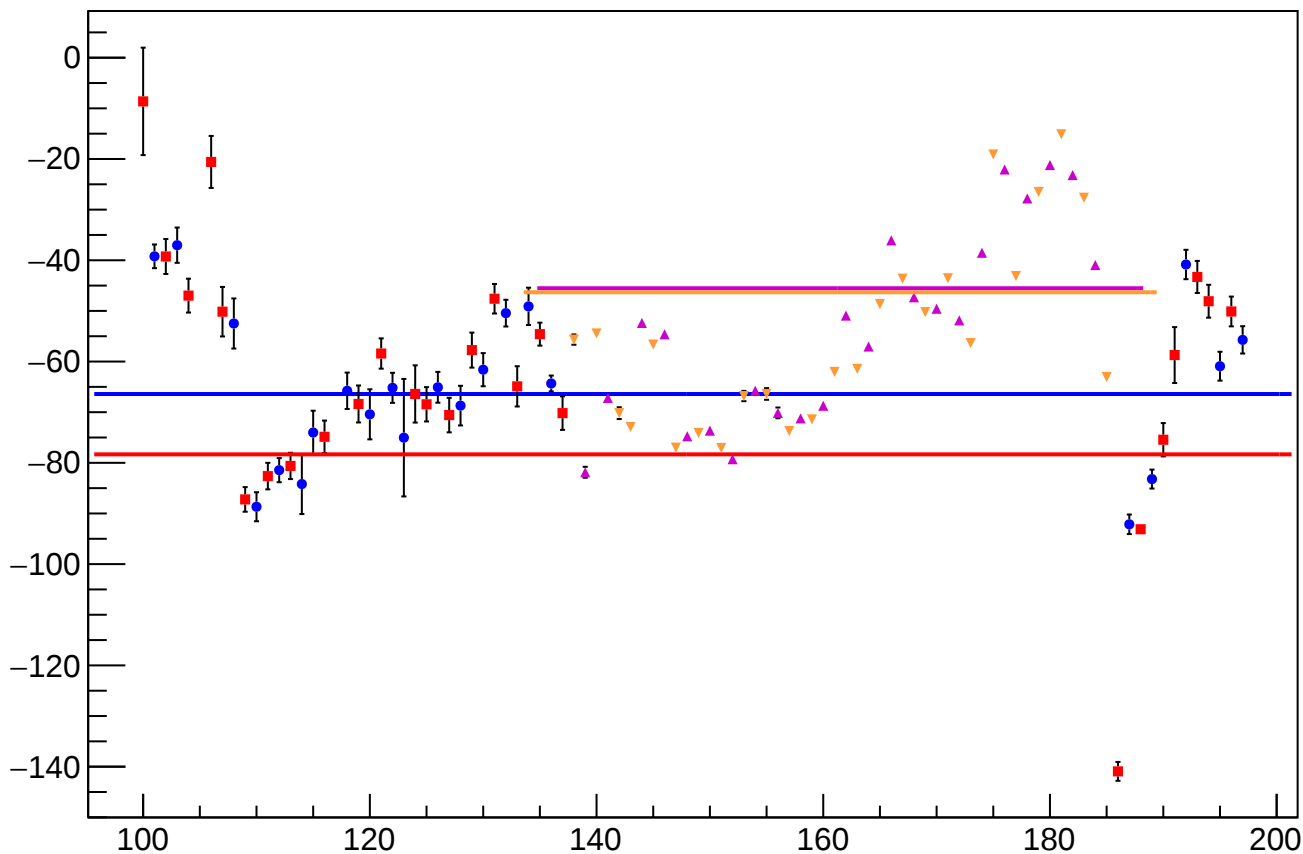
Right: -3.171 ± 0.281 χ^2/NDF : 843.7/47

In: 3.421 ± 0.107 χ^2/NDF : 6013.9/44

Out: 3.286 ± 0.105 χ^2/NDF : 7771.5/50

All: 3.353 ± 0.075 χ^2/NDF : 13786.2/95

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.411 ± 0.603 χ^2/NDF : 746.1/21

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

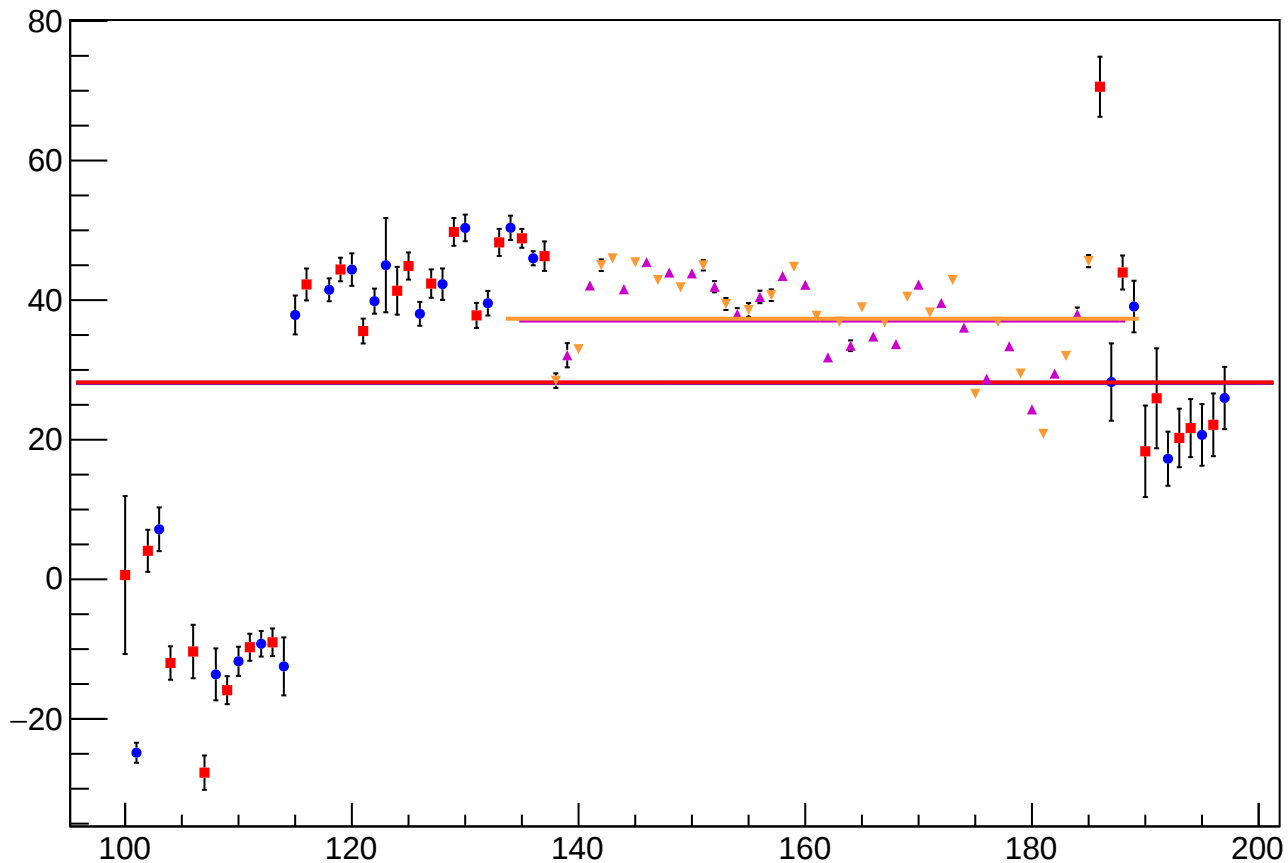
Right: -73.187 ± 0.396 χ^2/NDF : 3441.9/47

In: -46.587 ± 0.136 χ^2/NDF : 19410.4/44

Out: -48.384 ± 0.133 χ^2/NDF : 26084.1/50

All: -47.503 ± 0.095 χ^2/NDF : 45583.4/95

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.159 $\pm$ 0.448 χ^2 /NDF: 3330.6/21

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

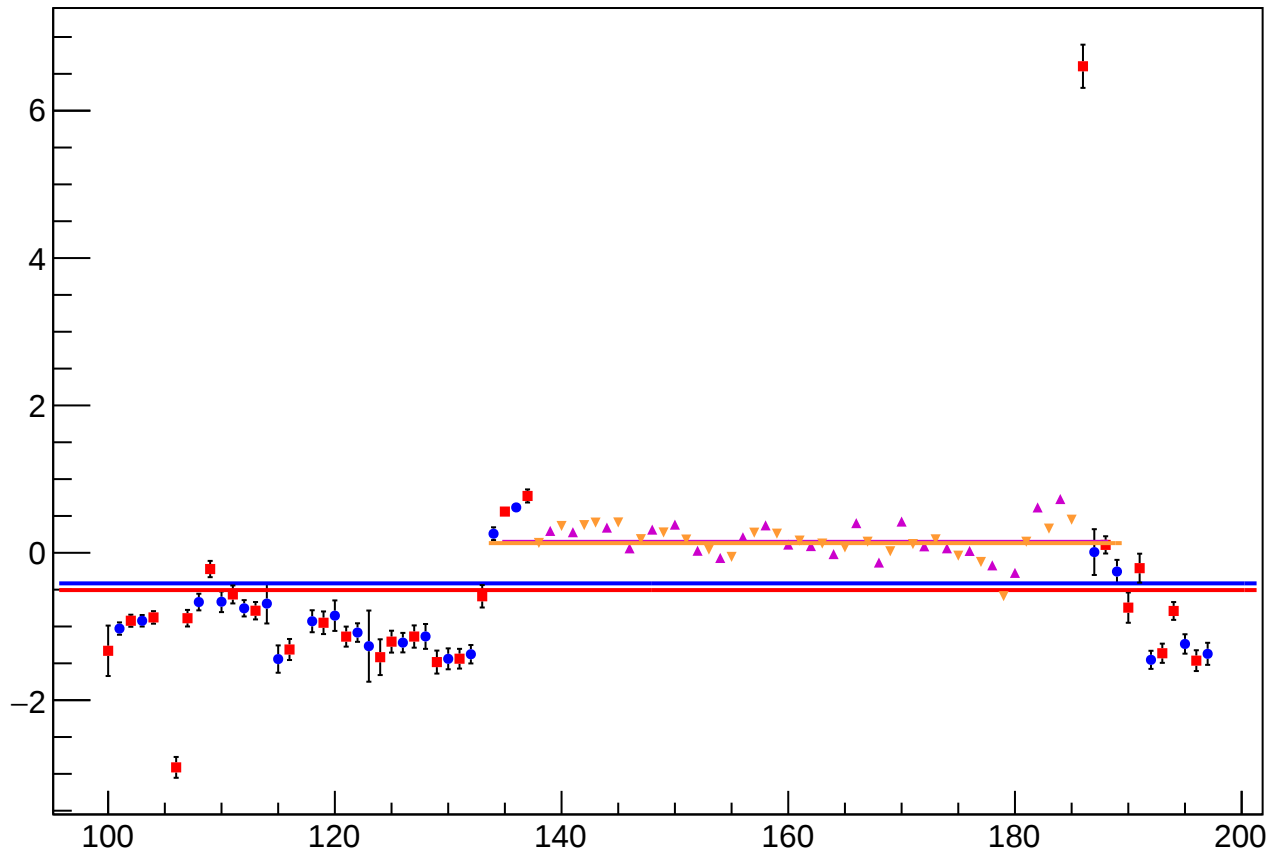
Right: 28.185 $\pm$ 0.320 χ^2 /NDF: 6513.7/47

In: 36.428 $\pm$ 0.121 χ^2 /NDF:6095.2/44

Out: 36.726 $\pm$ 0.119 χ^2 /NDF:6703.4/50

All: 36.579 $\pm$ 0.085 χ^2 /NDF: 12801.7/95

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.415 ± 0.023 χ^2/NDF : 1177.9/21

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

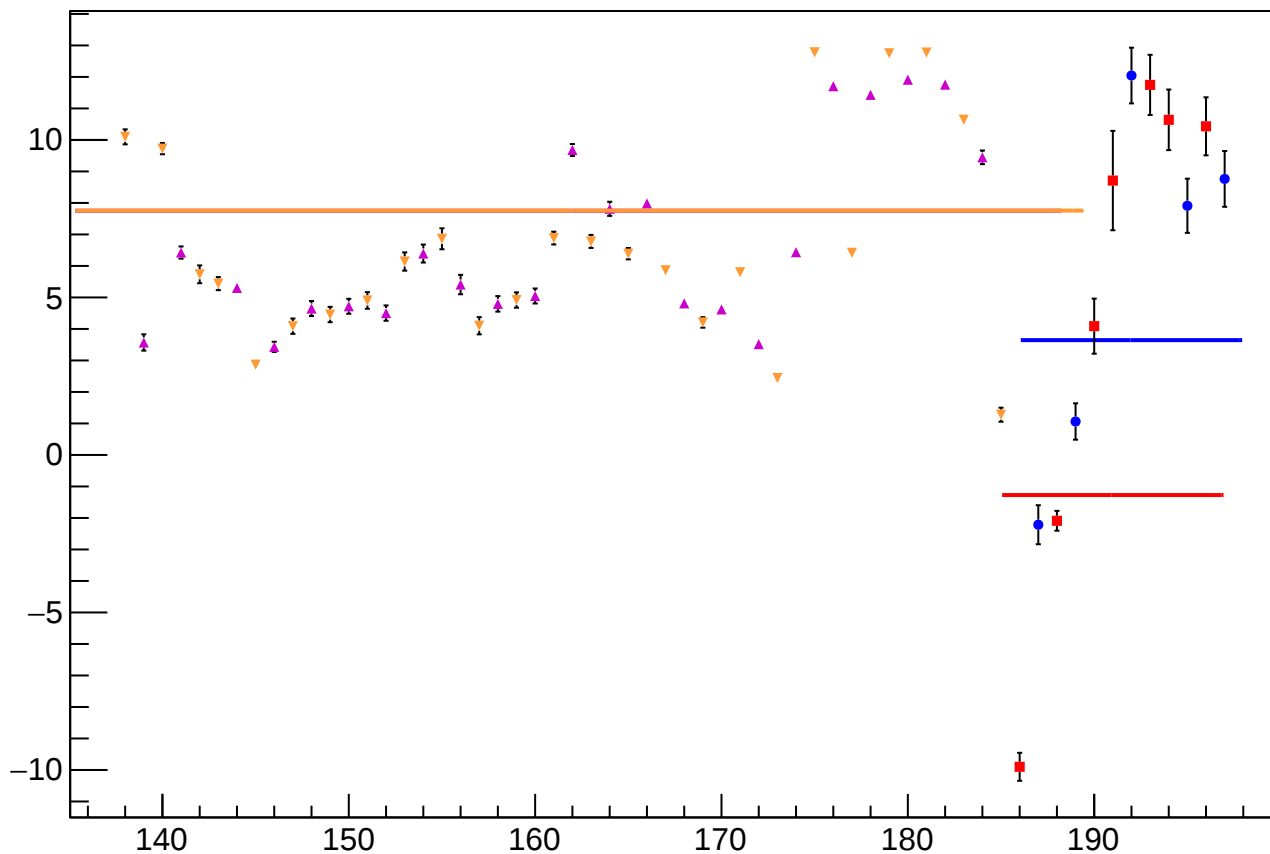
Right: -0.460 ± 0.017 χ^2/NDF : 3058.5/47

In: 0.117 ± 0.006 χ^2/NDF : 3527.4/44

Out: 0.097 ± 0.005 χ^2/NDF : 3996.6/50

All: 0.107 ± 0.004 χ^2/NDF : 7530.7/95

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 7.755 +/- 0.025 χ^2/NDF : 20073.8/47

Right: 0.301 +/- 0.183 χ^2/NDF : 1376.7/11

In: 7.705 +/- 0.035 χ^2/NDF : 8762.1/27

Out: 7.547 +/- 0.034 χ^2/NDF : 14302.2/31

All: 7.624 +/- 0.024 χ^2/NDF : 23074.9/59

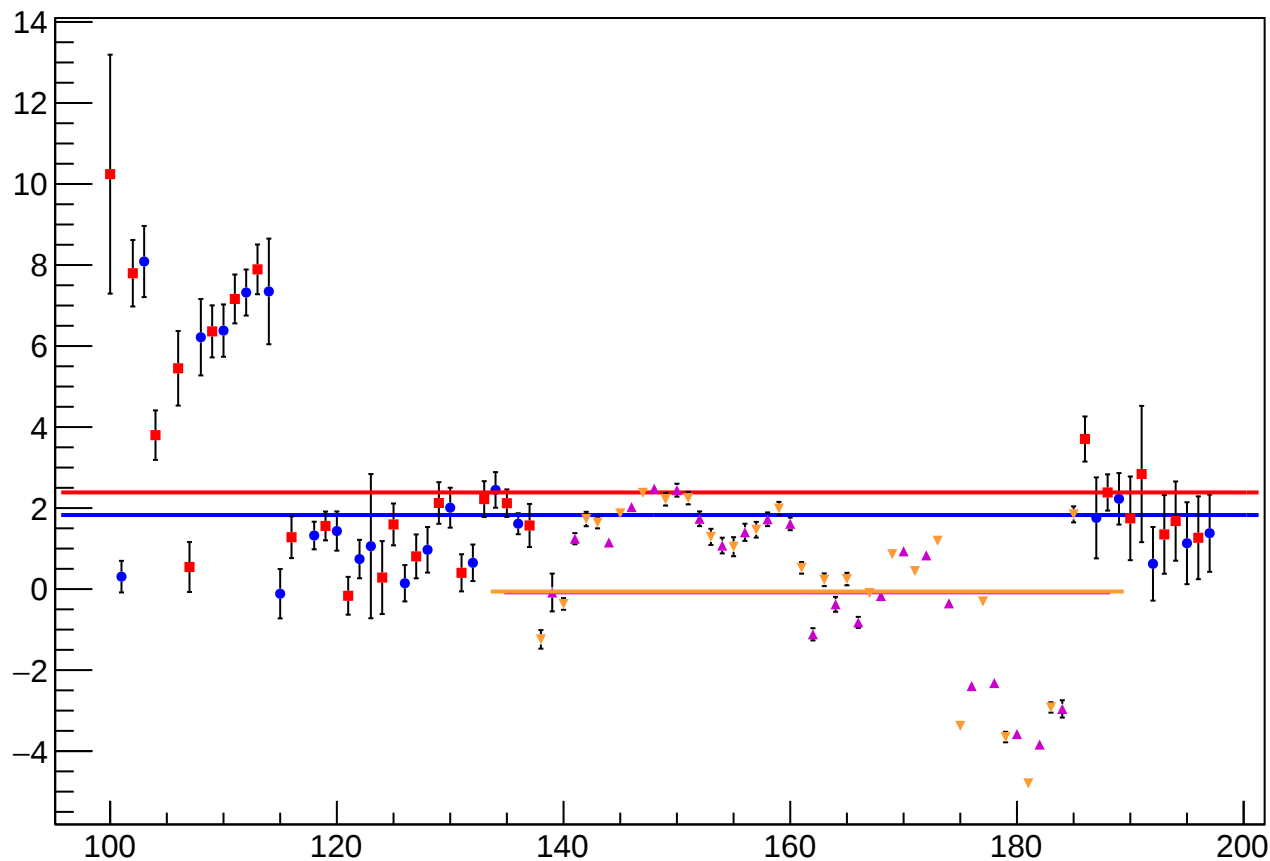
Right In: 3.645 +/- 0.324 χ^2/NDF : 258.0/4

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

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.829 ± 0.112 $\chi^2/\text{NDF}: 296.1/21$

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 $\chi^2/\text{NDF}: 11048.5/47$

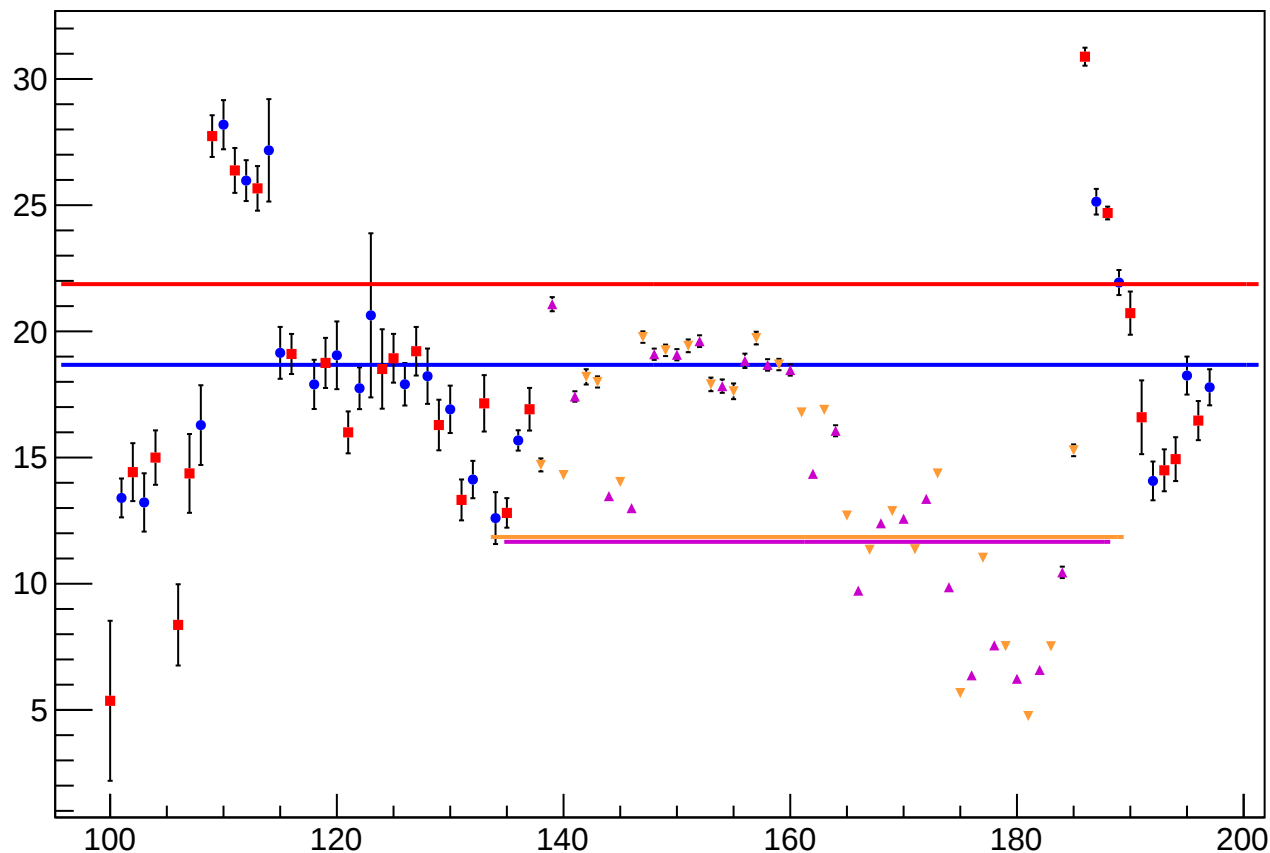
Right: 2.106 ± 0.079 $\chi^2/\text{NDF}: 652.9/47$

In: 0.033 ± 0.027 $\chi^2/\text{NDF}: 5547.8/44$

Out: 0.081 ± 0.027 $\chi^2/\text{NDF}: 6858.2/50$

All: 0.058 ± 0.019 $\chi^2/\text{NDF}: 12407.5/95$

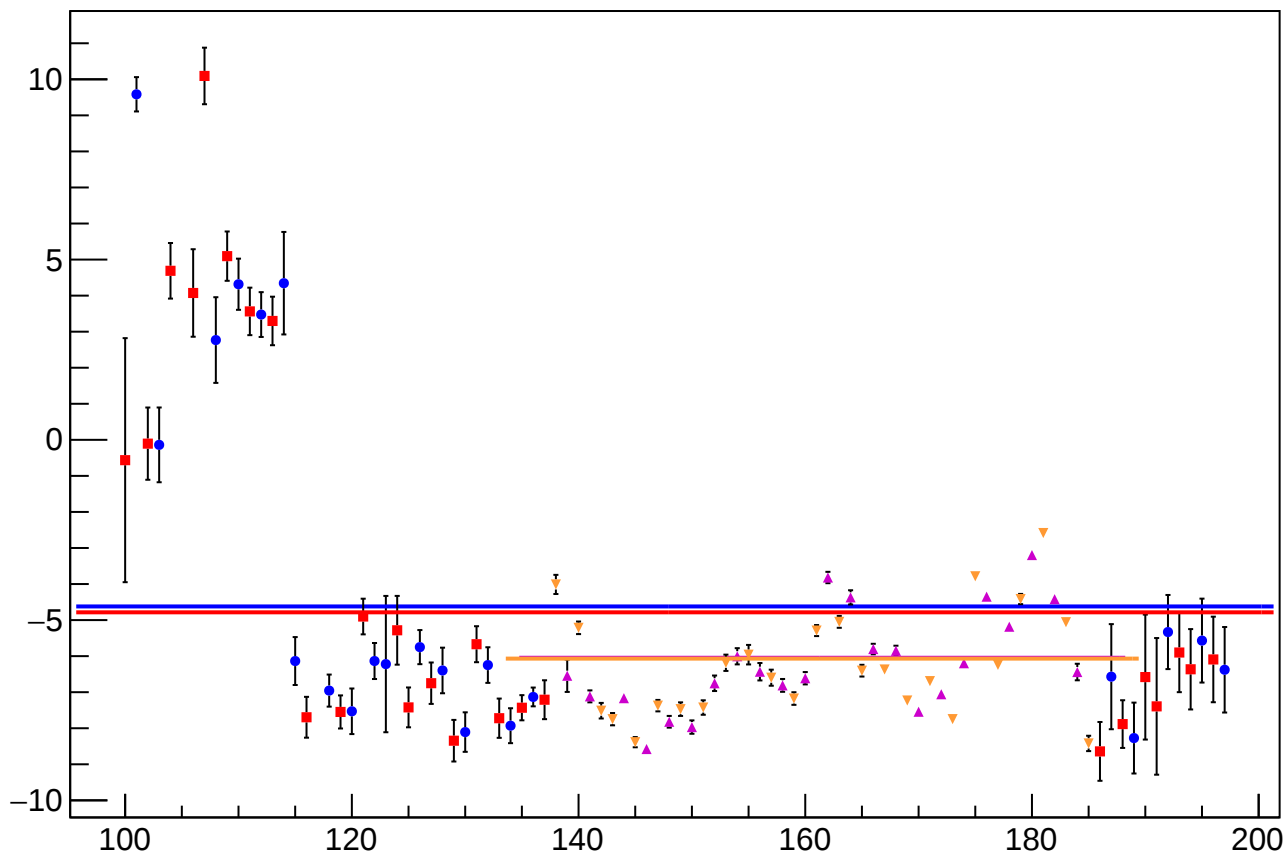
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.673 $\pm$ 0.168 χ^2 /NDF: 643.0/21
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.871 $\pm$ 0.141 χ^2 /NDF: 1792.4/25
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 20.552 $\pm$ 0.108 χ^2 /NDF: 2648.1/47
 In: 11.955 $\pm$ 0.034 χ^2 /NDF:19021.7/44
 Out: 12.425 $\pm$ 0.034 χ^2 /NDF:25711.3/50
 All: 12.195 $\pm$ 0.024 χ^2 /NDF: 44828.5/95

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.621 ± 0.126 $\chi^2/\text{NDF}: 1602.7/21$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.785 ± 0.129 $\chi^2/\text{NDF}: 1397.7/25$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

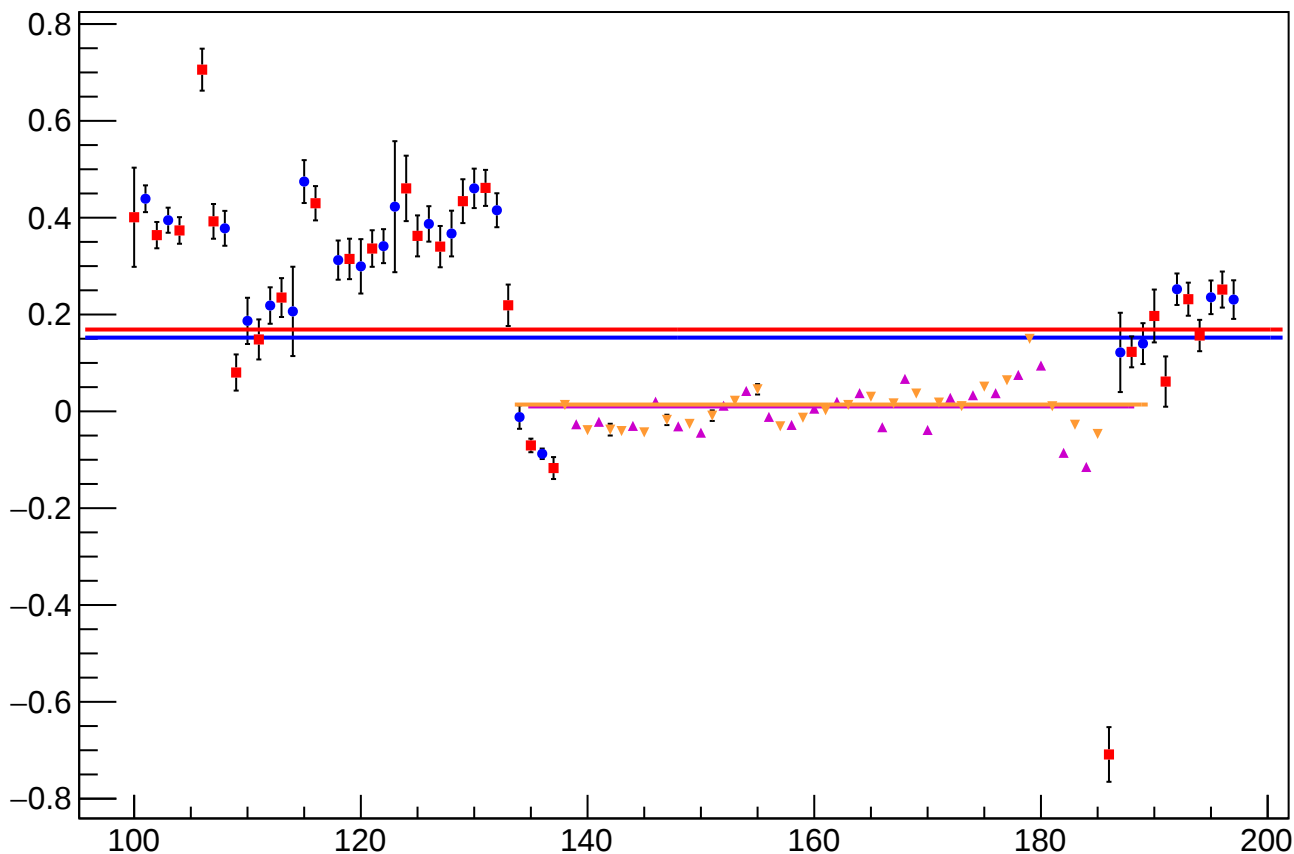
Right: -4.701 ± 0.090 $\chi^2/\text{NDF}: 3001.2/47$

In: -5.961 ± 0.031 $\chi^2/\text{NDF}: 4015.6/44$

Out: -5.998 ± 0.030 $\chi^2/\text{NDF}: 4162.7/50$

All: -5.980 ± 0.022 $\chi^2/\text{NDF}: 8179.0/95$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.152 $\pm$ 0.007 χ^2 /NDF: 1079.0/21

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

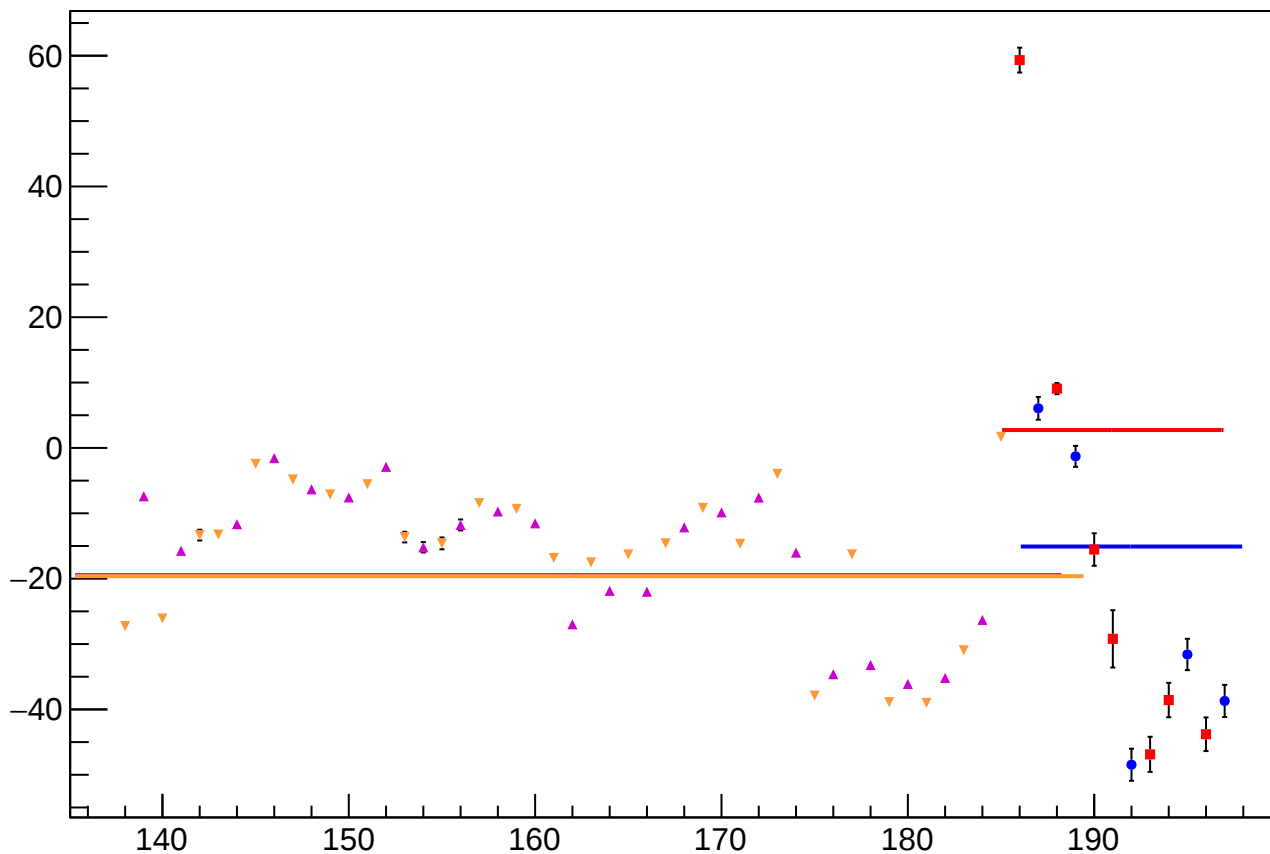
Right: 0.161 $\pm$ 0.005 χ^2 /NDF: 2341.3/47

In: 0.017 $\pm$ 0.001 χ^2 /NDF:2740.5/44

Out: 0.021 $\pm$ 0.001 χ^2 /NDF:2736.8/50

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5481.8/95

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.082 $\pm$ 0.904 χ^2 /NDF: 546.1/4
 Left Out: -19.612 $\pm$ 0.103 χ^2 /NDF:15761.3/24
 Right Out: 2.739 $\pm$ 0.657 χ^2 /NDF: 1963.4/6
 Left In: -19.450 $\pm$ 0.105 χ^2 /NDF:12283.1/22

Left: -19.533 $\pm$ 0.074 χ^2 /NDF: 28045.6/47

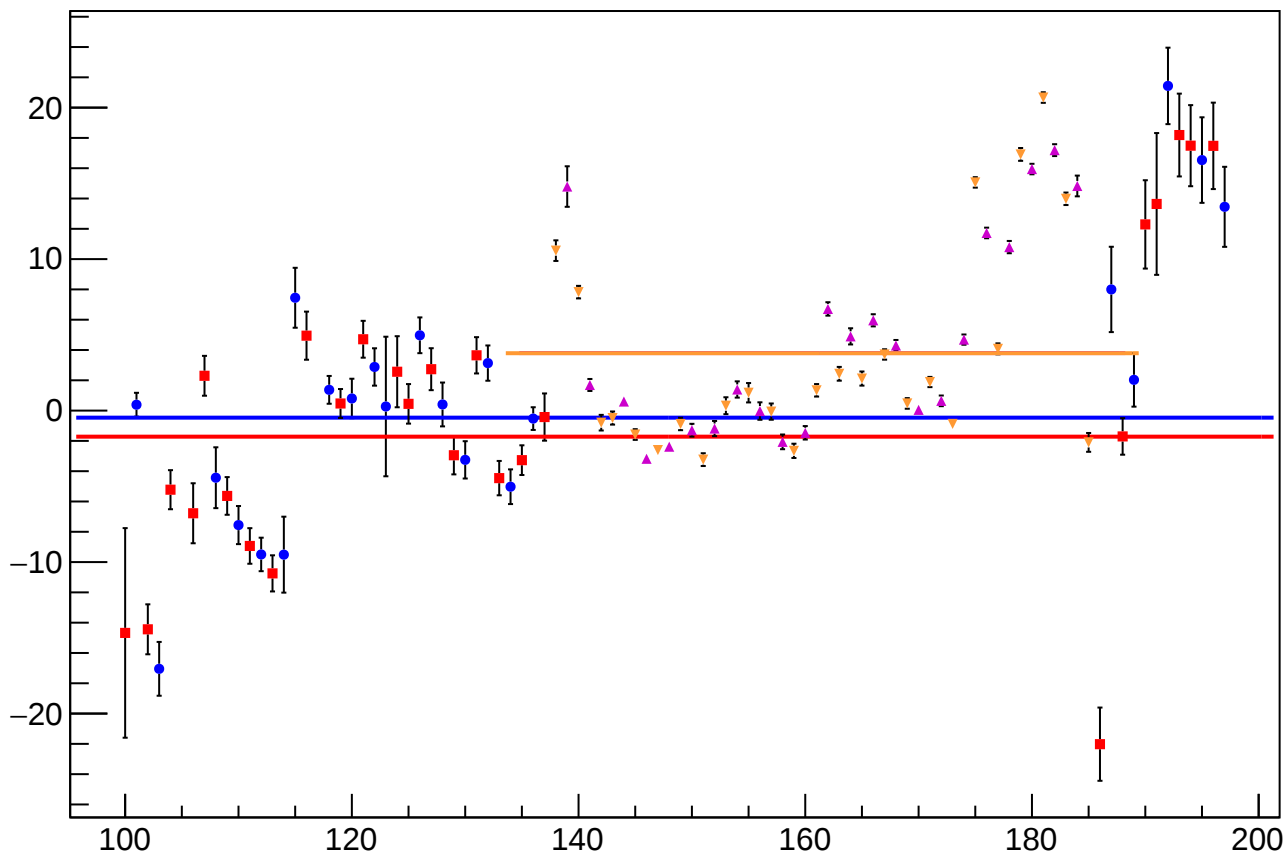
Right: -3.423 $\pm$ 0.532 χ^2 /NDF: 2763.6/11

In: -19.392 $\pm$ 0.104 χ^2 /NDF:12852.2/27

Out: -19.074 $\pm$ 0.102 χ^2 /NDF:18853.3/31

All: -19.230 $\pm$ 0.073 χ^2 /NDF: 31710.3/59

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.466 ± 0.282 $\chi^2/\text{NDF}: 434.5/21$

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 $\chi^2/\text{NDF}: 12667.5/47$

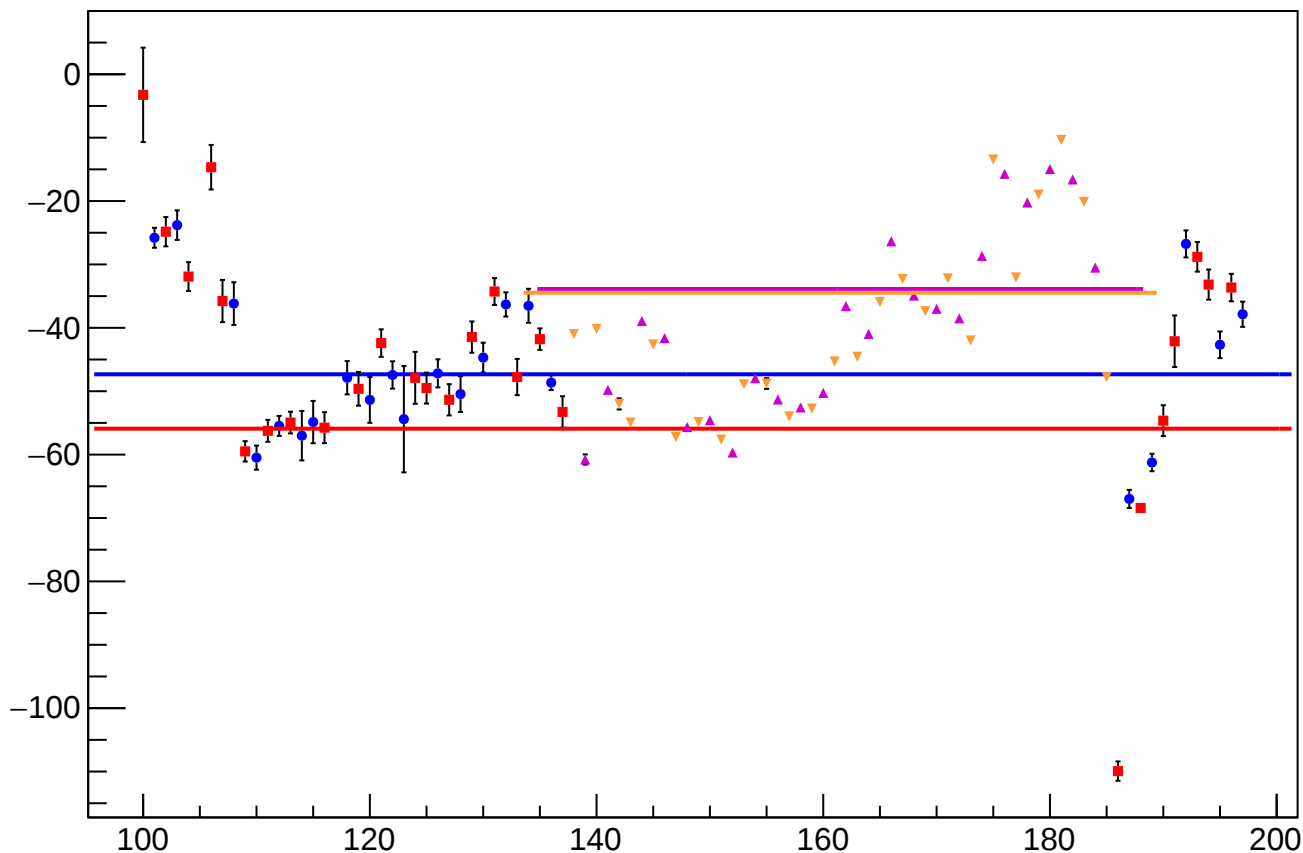
Right: -1.088 ± 0.201 $\chi^2/\text{NDF}: 986.9/47$

In: 3.455 ± 0.080 $\chi^2/\text{NDF}: 6161.0/44$

Out: 3.366 ± 0.079 $\chi^2/\text{NDF}: 8038.6/50$

All: 3.410 ± 0.056 $\chi^2/\text{NDF}: 14200.2/95$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -47.329 ± 0.433 $\chi^2/\text{NDF}: 853.5/21$

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 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

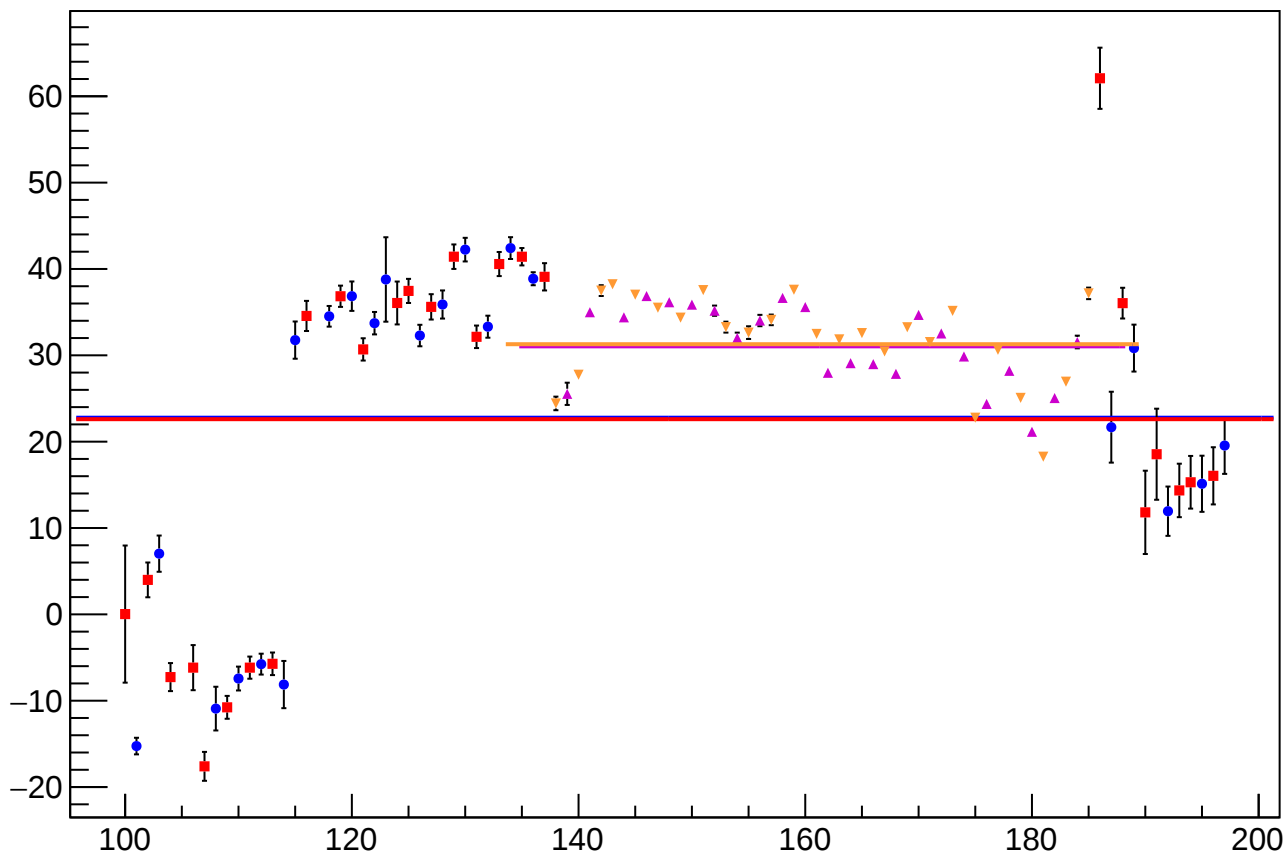
Right: -52.175 ± 0.285 $\chi^2/\text{NDF}: 3802.6/47$

In: -34.627 ± 0.102 $\chi^2/\text{NDF}: 19404.8/44$

Out: -35.965 ± 0.100 $\chi^2/\text{NDF}: 25887.4/50$

All: -35.309 ± 0.072 $\chi^2/\text{NDF}: 45379.5/95$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.774 $\pm$ 0.320 χ^2 /NDF: 4347.1/21

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

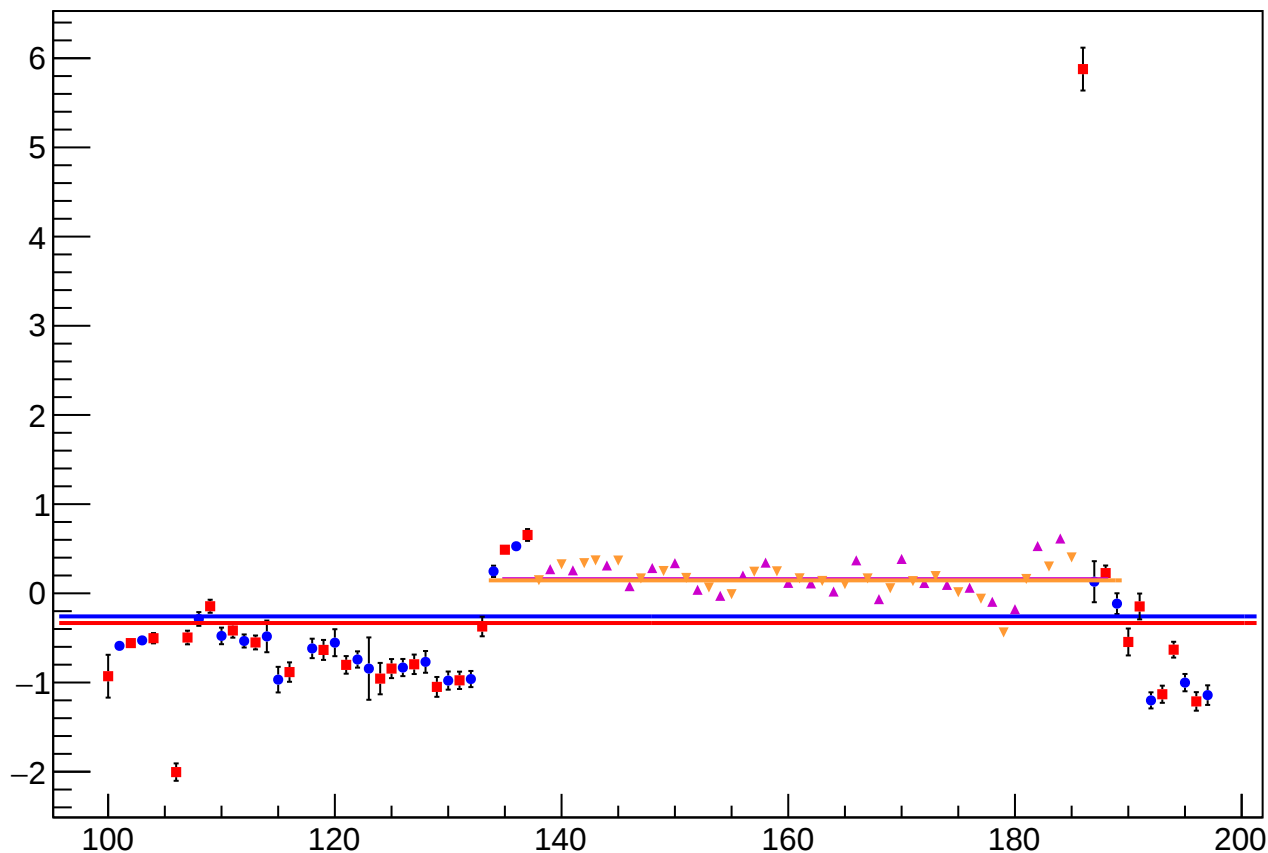
Right: 22.691 $\pm$ 0.228 χ^2 /NDF: 8583.2/47

In: 30.380 $\pm$ 0.090 χ^2 /NDF:7441.0/44

Out: 30.641 $\pm$ 0.089 χ^2 /NDF:8237.5/50

All: 30.513 $\pm$ 0.063 χ^2 /NDF: 15682.8/95

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.259 ± 0.017 χ^2/NDF : 1250.9/21

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

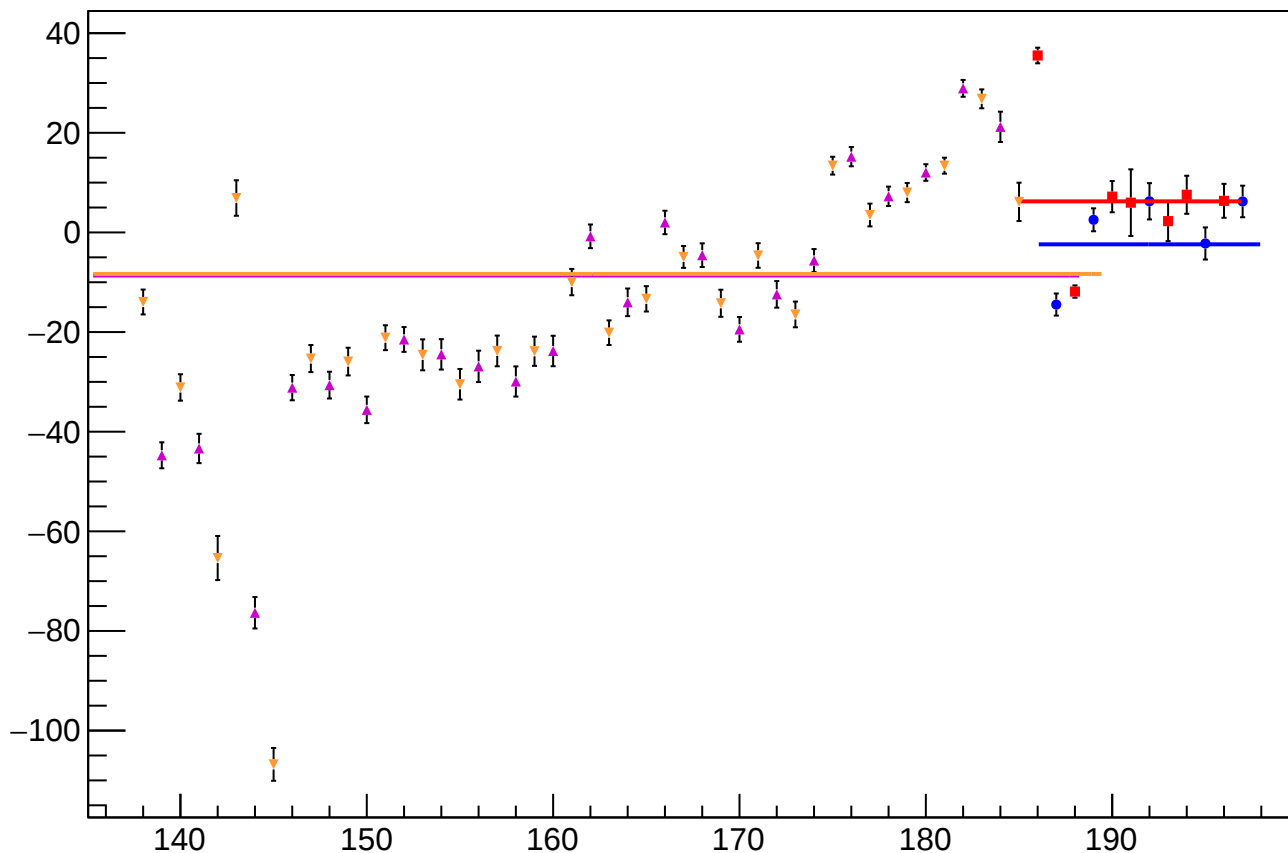
Right: -0.296 ± 0.012 χ^2/NDF : 3301.7/47

In: 0.133 ± 0.004 χ^2/NDF : 3843.8/44

Out: 0.116 ± 0.004 χ^2/NDF : 4392.0/50

All: 0.125 ± 0.003 χ^2/NDF : 8243.6/95

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.388+/-1.228 χ^2/NDF : 47.2/4

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

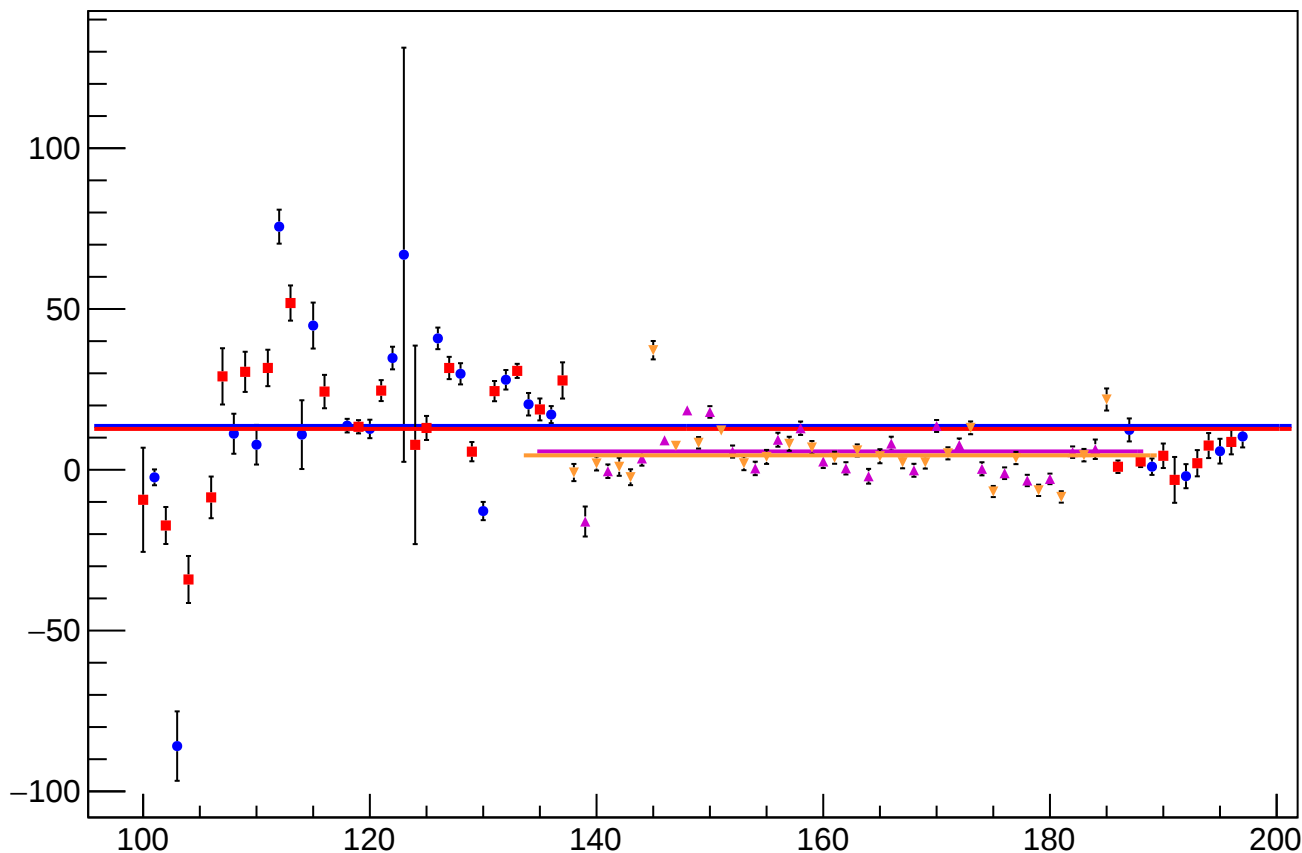
Right: 3.462+/-0.697 χ^2/NDF : 642.8/11

In: -7.739+/-0.469 χ^2/NDF : 2293.3/27

Out: -4.565+/-0.430 χ^2/NDF : 3008.3/31

All: -6.016+/-0.317 χ^2/NDF : 5326.4/59

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.635 $\pm$ 0.744 χ^2 /NDF: 573.6/21

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

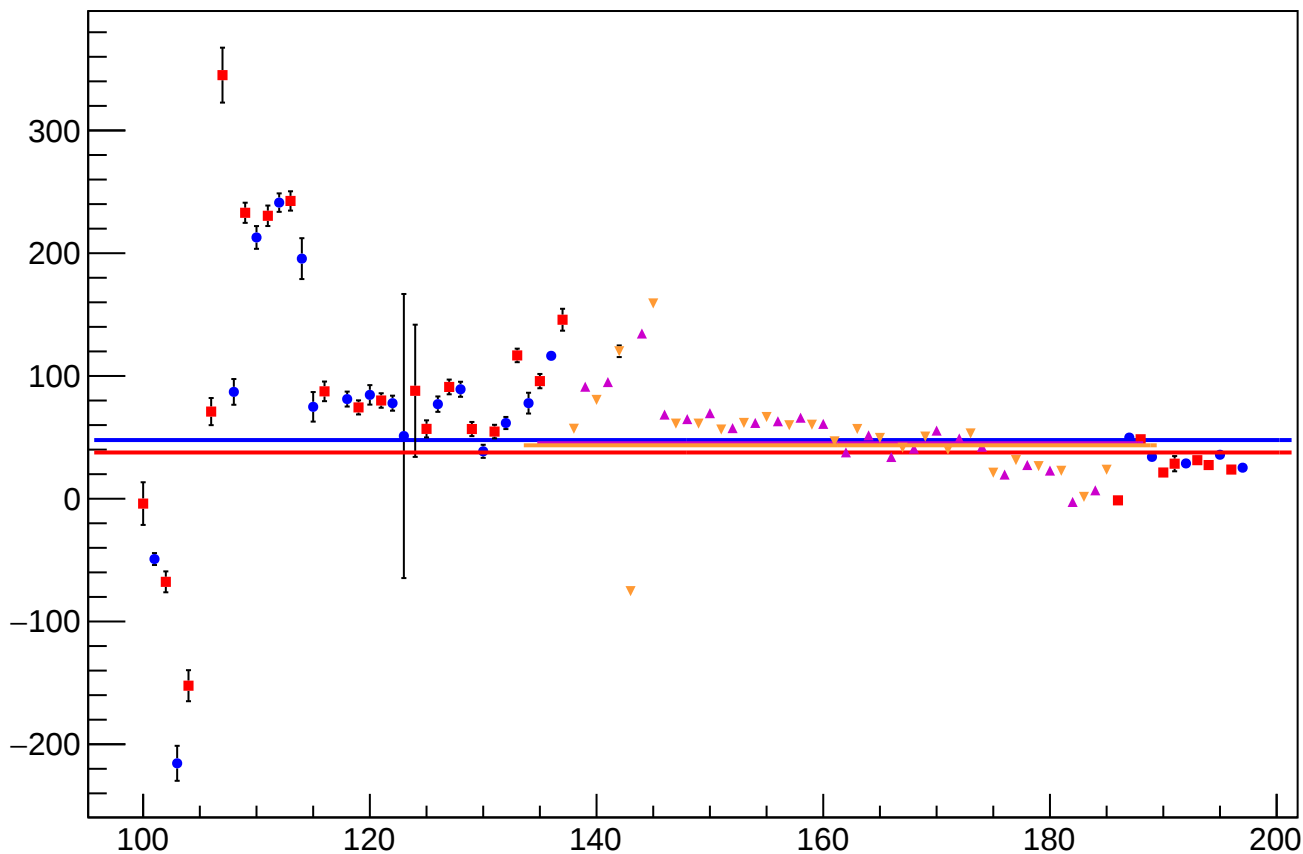
Right: 13.135 $\pm$ 0.504 χ^2 /NDF: 965.7/47

In: 7.513 $\pm$ 0.355 χ^2 /NDF: 985.4/44

Out: 6.507 $\pm$ 0.340 χ^2 /NDF: 871.4/50

All: 6.989 $\pm$ 0.246 χ^2 /NDF: 1861.0/95

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.793 ± 0.872 $\chi^2/\text{NDF}: 2446.4/21$

Left Out: 43.524 ± 0.498 $\chi^2/\text{NDF}: 3830.7/24$

Right Out: 37.670 ± 0.645 $\chi^2/\text{NDF}: 4195.1/25$

Left In: 45.211 ± 0.504 $\chi^2/\text{NDF}: 3048.5/22$

Left: 44.358 ± 0.354 $\chi^2/\text{NDF}: 6884.8/47$

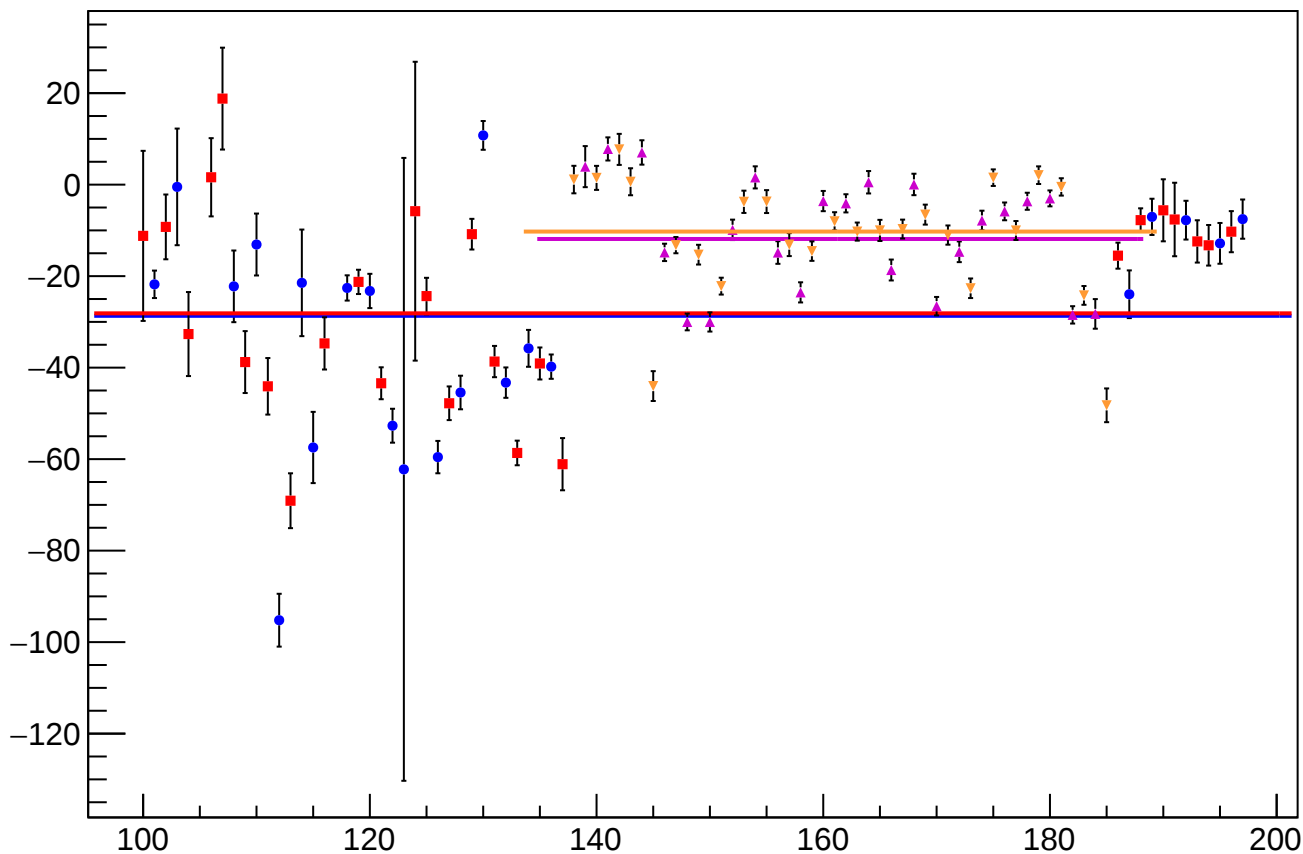
Right: 41.254 ± 0.519 $\chi^2/\text{NDF}: 6728.6/47$

In: 45.859 ± 0.437 $\chi^2/\text{NDF}: 5501.5/44$

Out: 41.338 ± 0.394 $\chi^2/\text{NDF}: 8077.4/50$

All: 43.370 ± 0.293 $\chi^2/\text{NDF}: 13637.9/95$

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.669 ± 0.879 χ^2/NDF : 598.4/21

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -28.132 ± 0.843 χ^2/NDF : 497.1/25

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

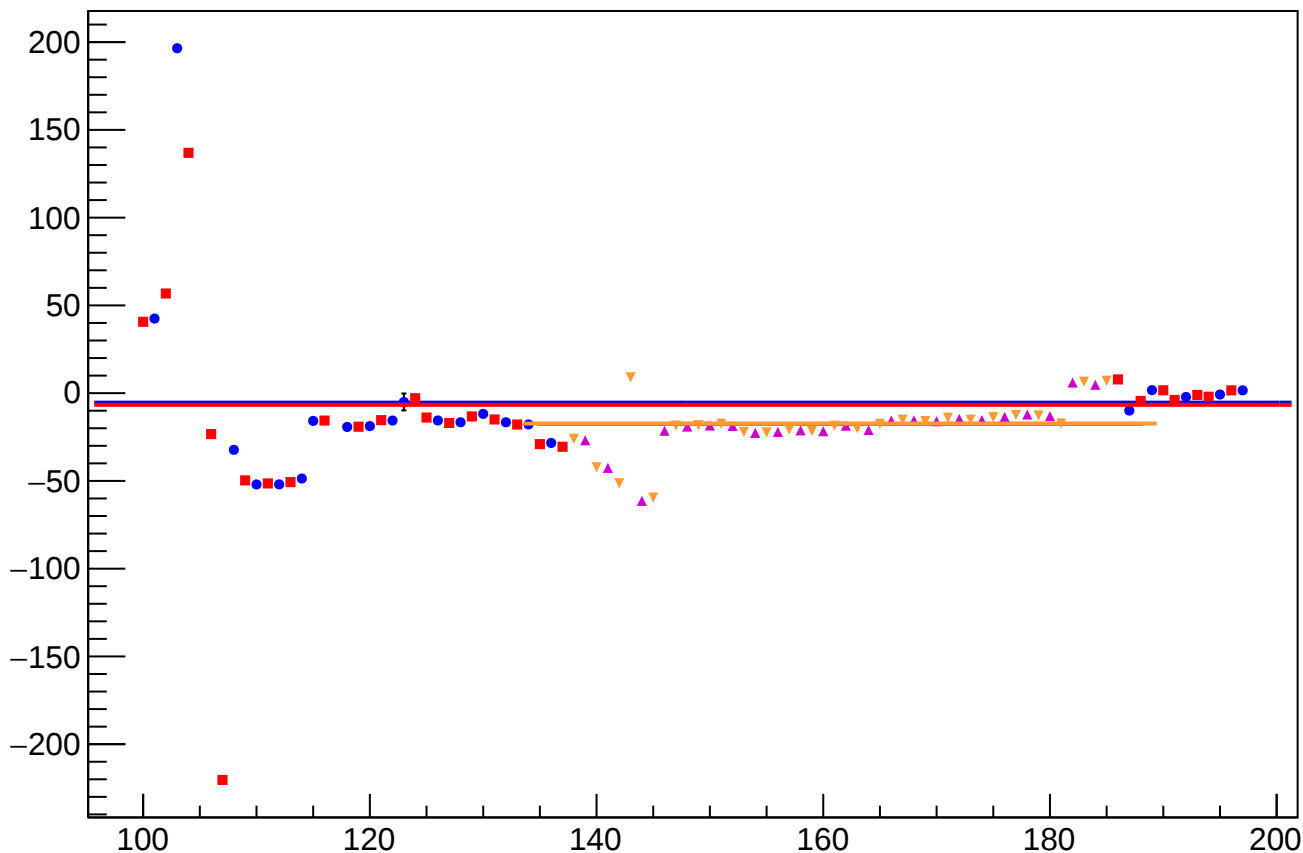
Right: -28.389 ± 0.608 χ^2/NDF : 1095.7/47

In: -15.439 ± 0.405 χ^2/NDF : 1552.2/44

Out: -14.143 ± 0.393 χ^2/NDF : 1401.5/50

All: -14.772 ± 0.282 χ^2/NDF : 2959.0/95

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -5.407 ± 0.045 $\chi^2/\text{NDF}: 584311.5/21$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -6.642 ± 0.043 $\chi^2/\text{NDF}: 582270.7/25$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

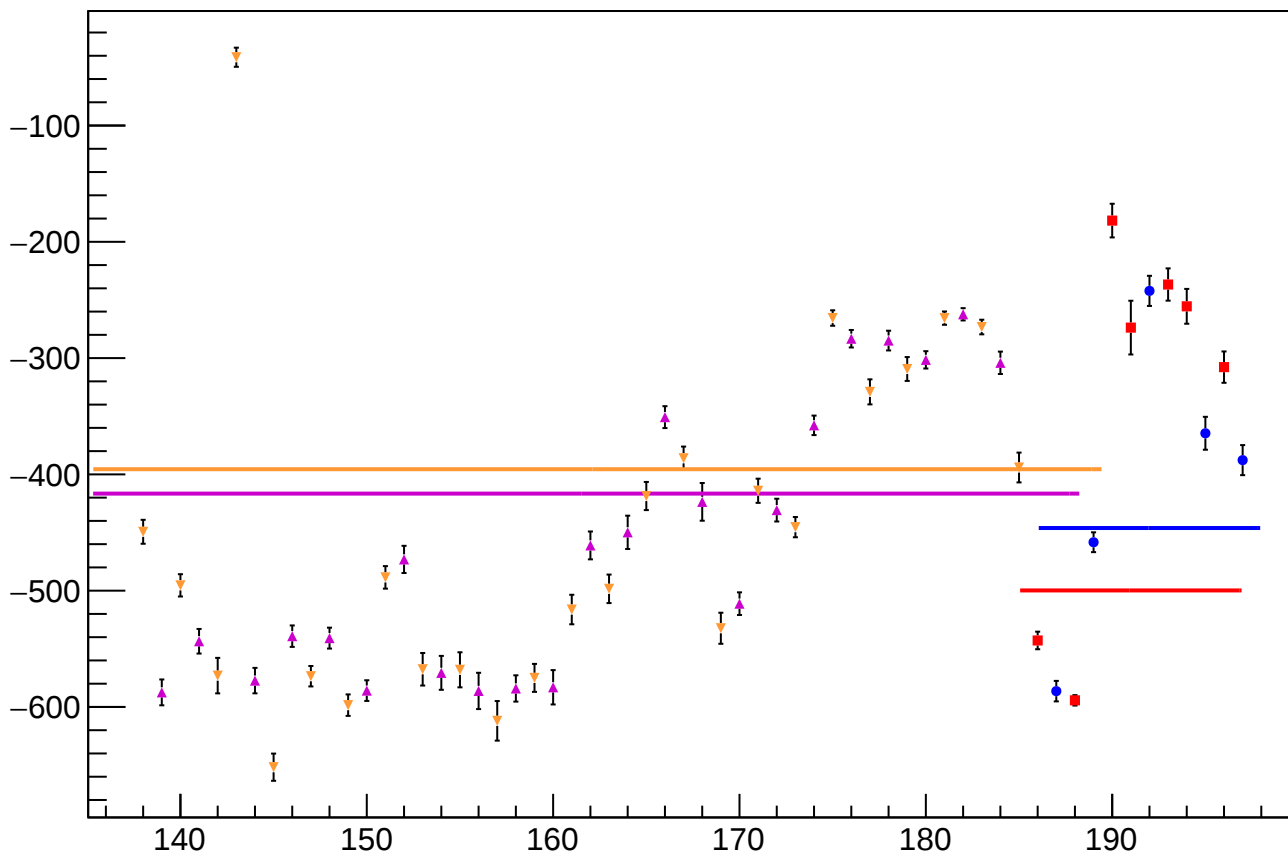
Right: -6.061 ± 0.031 $\chi^2/\text{NDF}: 1166973.2/47$

In: -15.417 ± 0.019 $\chi^2/\text{NDF}: 902156.7/44$

Out: -15.357 ± 0.018 $\chi^2/\text{NDF}: 958210.4/50$

All: -15.386 ± 0.013 $\chi^2/\text{NDF}: 1860372.2/95$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -446.127 $\pm$ 4.791 χ^2/NDF : 556.7/4

Left Out: -395.547 $\pm$ 1.953 χ^2/NDF : 5946.5/24

Right Out: -499.800 $\pm$ 3.351 χ^2/NDF : 1883.2/6

Left In: -416.521 $\pm$ 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 $\pm$ 1.399 χ^2/NDF : 9919.7/47

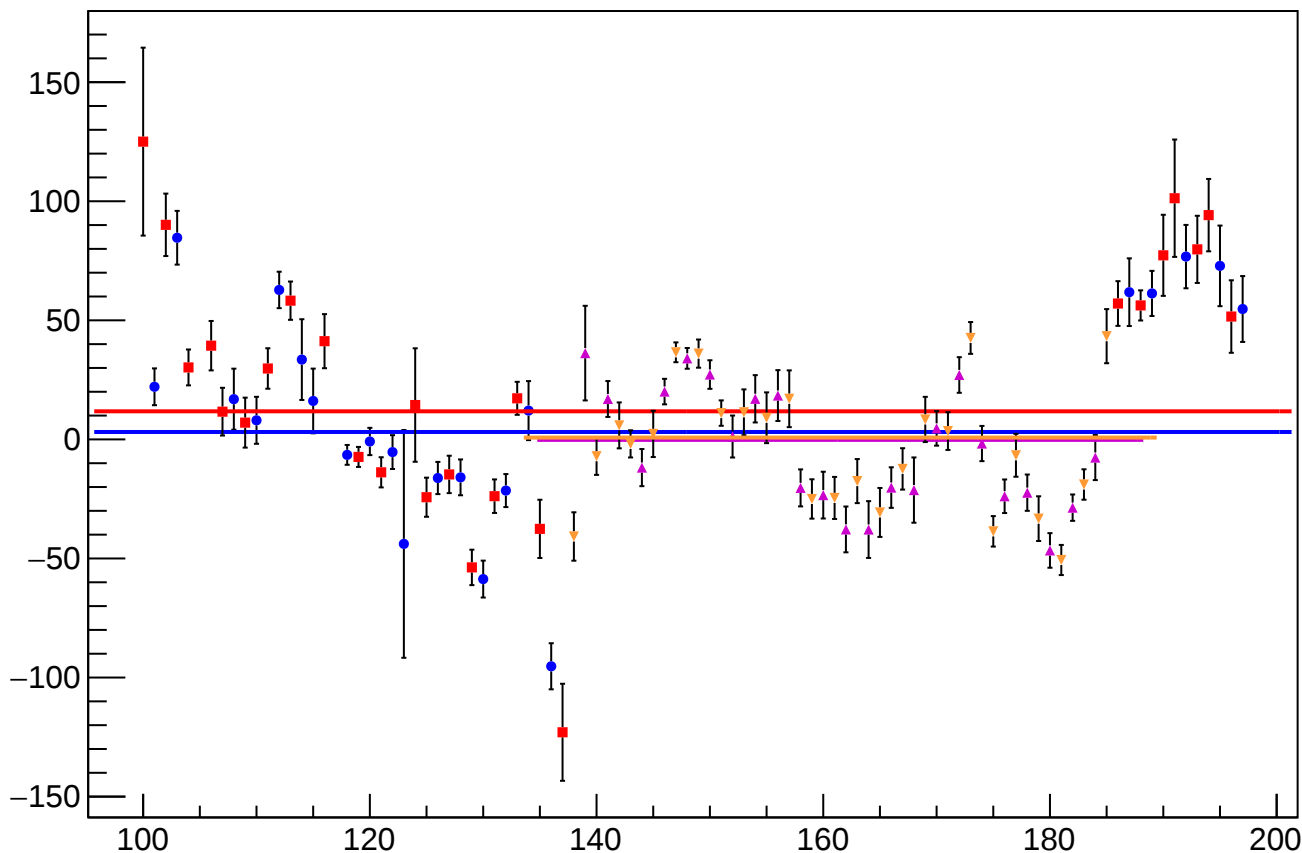
Right: -482.166 $\pm$ 2.746 χ^2/NDF : 2524.2/11

In: -420.933 $\pm$ 1.849 χ^2/NDF : 4506.2/27

Out: -421.986 $\pm$ 1.688 χ^2/NDF : 8552.0/31

All: -421.508 $\pm$ 1.247 χ^2/NDF : 13058.5/59

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.114 ± 1.826 $\chi^2/\text{NDF}: 443.7/21$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 11.793 ± 1.748 $\chi^2/\text{NDF}: 493.7/25$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

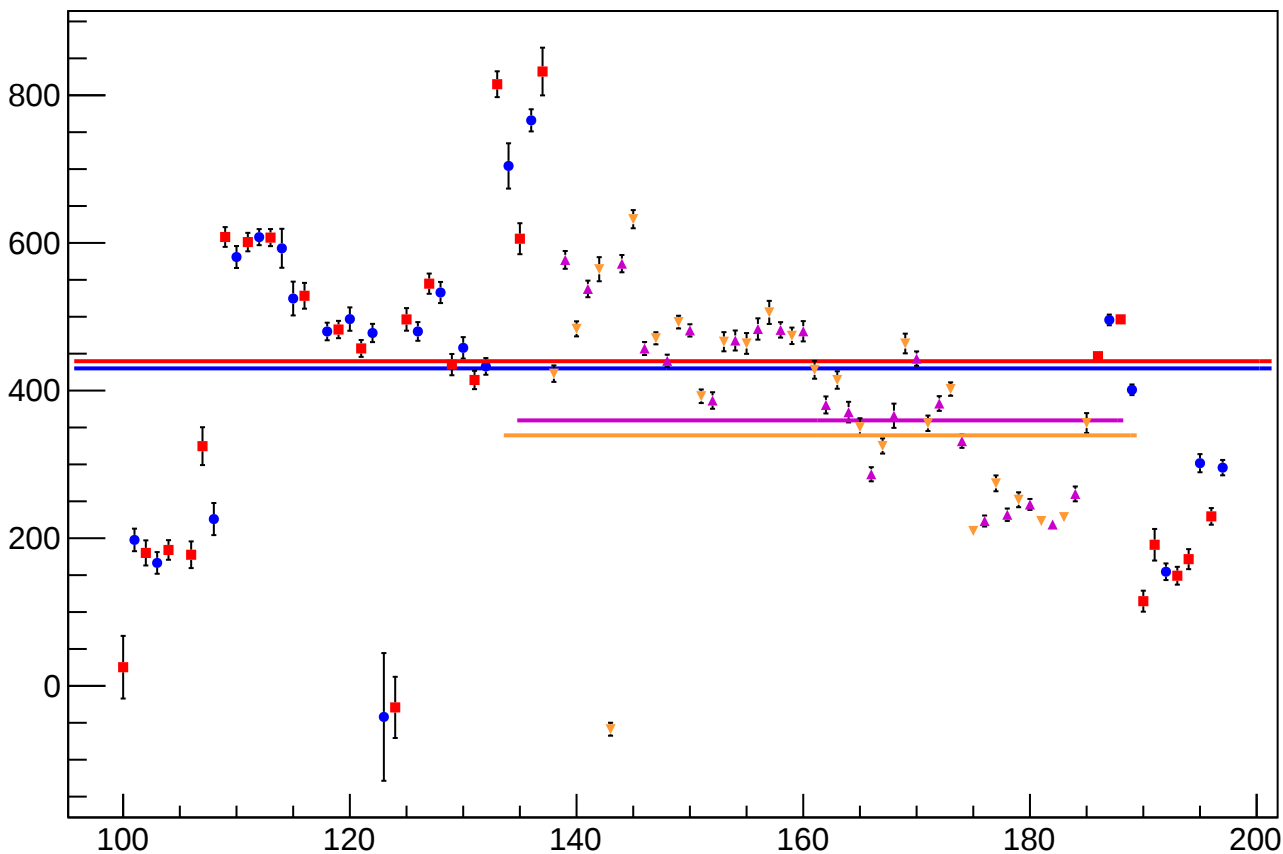
Right: 7.643 ± 1.263 $\chi^2/\text{NDF}: 949.1/47$

In: 1.213 ± 1.193 $\chi^2/\text{NDF}: 706.4/44$

Out: 5.452 ± 1.140 $\chi^2/\text{NDF}: 866.6/50$

All: 3.429 ± 0.824 $\chi^2/\text{NDF}: 1579.6/95$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 430.049 $\pm$ 2.709 χ^2 /NDF: 2771.2/21

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

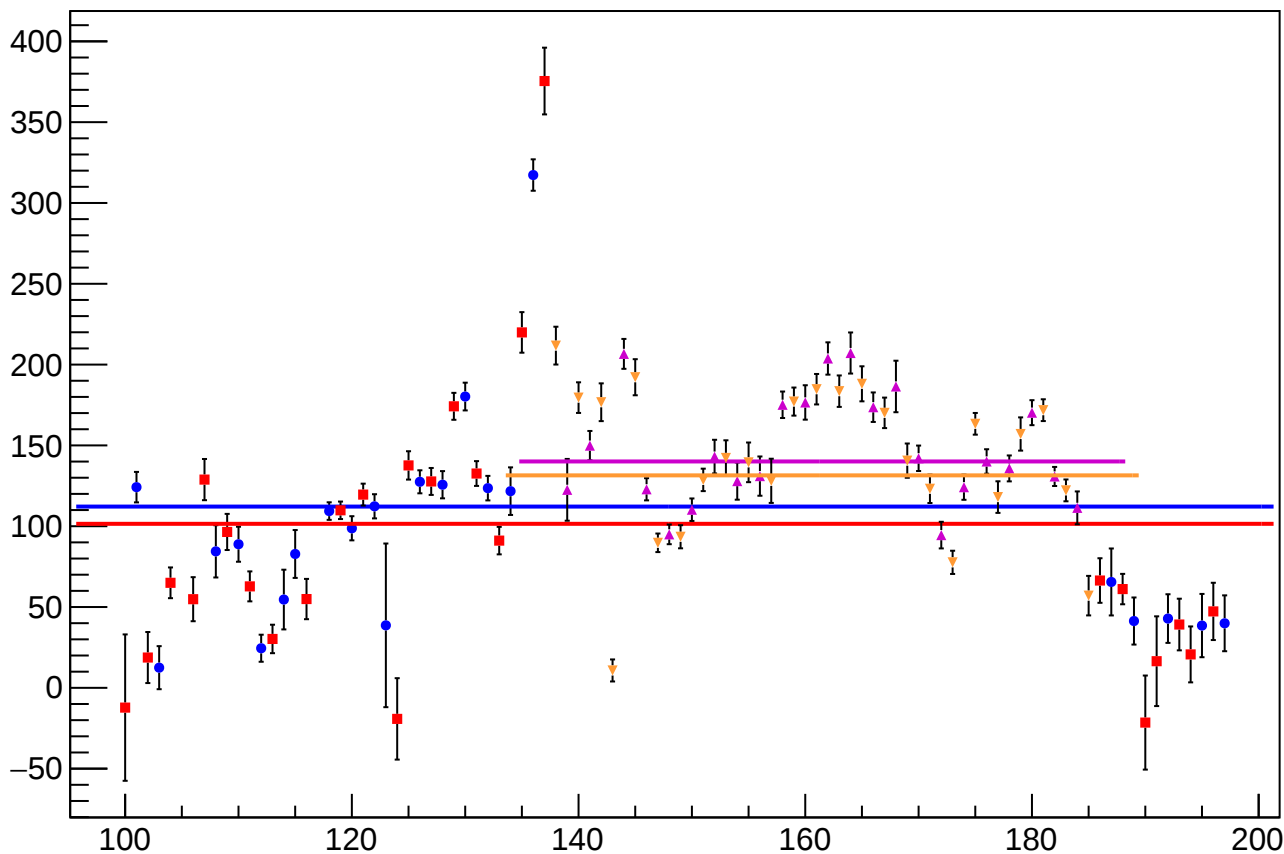
Right: 435.970 $\pm$ 1.696 χ^2 /NDF: 7379.6/47

In: 384.502 $\pm$ 1.610 χ^2 /NDF:6606.9/44

Out: 384.415 $\pm$ 1.457 χ^2 /NDF:11277.9/50

All: 384.454 $\pm$ 1.081 χ^2 /NDF: 17884.8/95

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 112.153+/-2.140 χ^2/NDF : 793.5/21

Left Out: 131.464+/-1.728 χ^2/NDF : 809.3/24

Right Out: 101.481+/-2.066 χ^2/NDF : 678.9/25

Left In: 140.069+/-1.795 χ^2/NDF : 316.5/22

Left: 135.602+/-1.245 χ^2/NDF : 1137.8/47

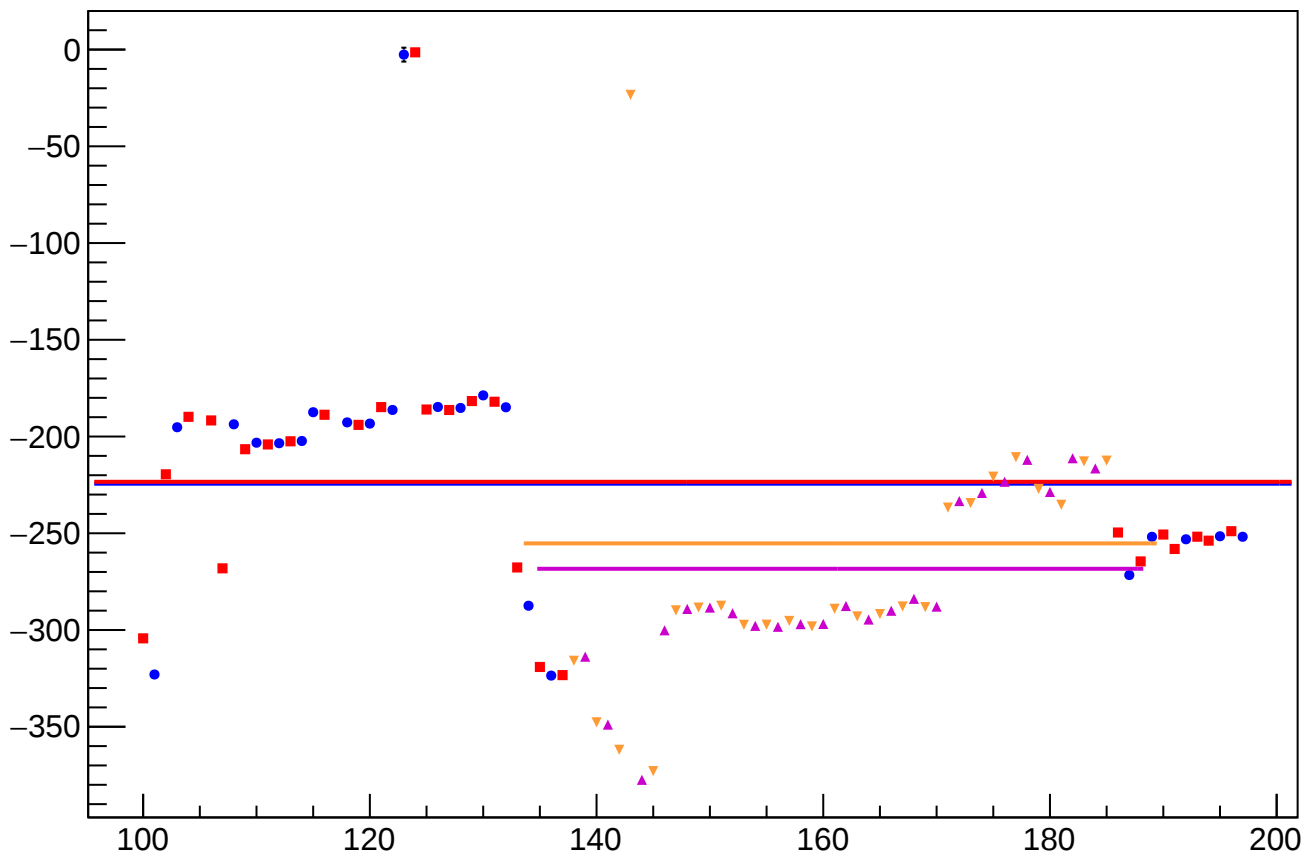
Right: 106.629+/-1.486 χ^2/NDF : 1485.3/47

In: 128.538+/-1.375 χ^2/NDF : 1210.0/44

Out: 119.124+/-1.325 χ^2/NDF : 1612.2/50

All: 123.656+/-0.954 χ^2/NDF : 2846.4/95

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -224.373+/-0.122 χ^2/NDF : 160545.9/21

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

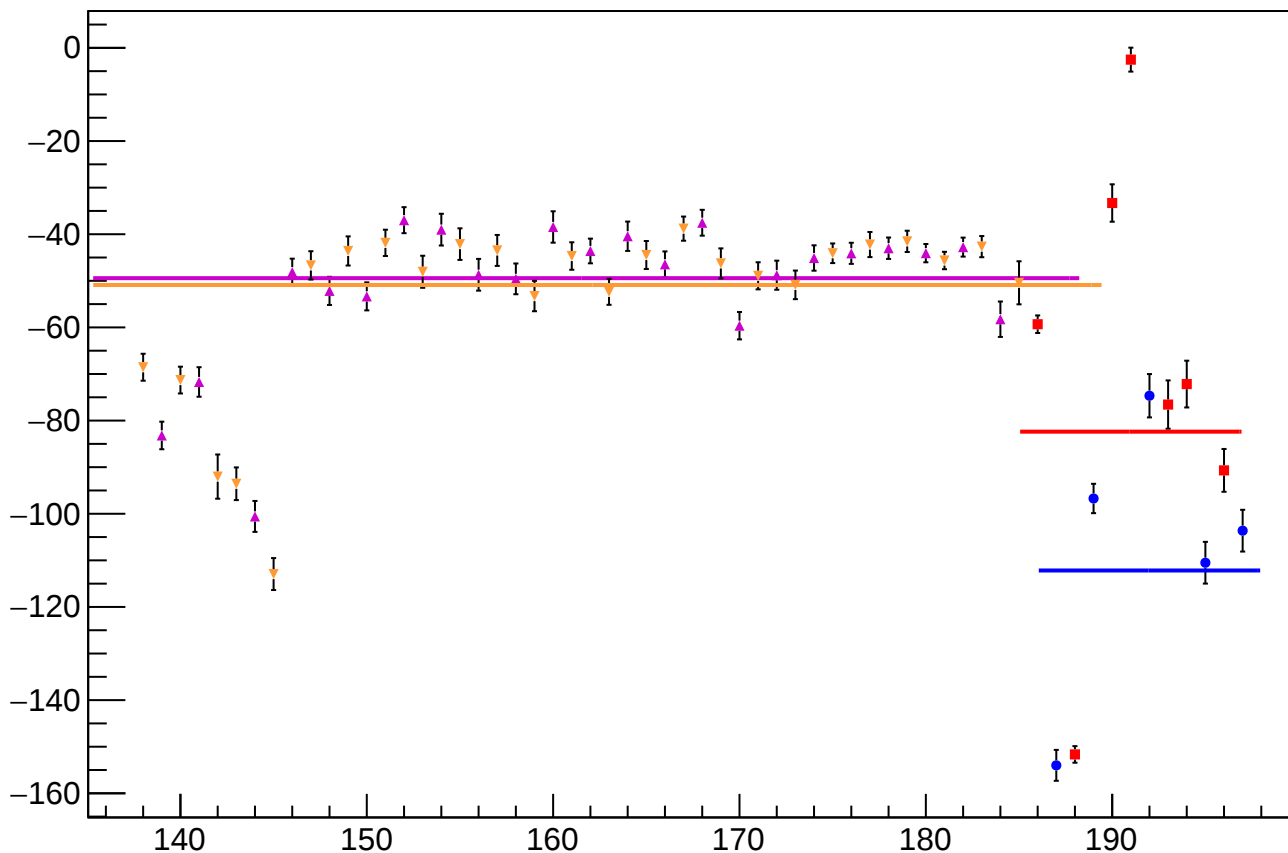
Right: -223.845+/-0.083 χ^2/NDF : 303167.5/47

In: -254.364+/-0.069 χ^2/NDF : 511006.5/44

Out: -244.230+/-0.066 χ^2/NDF : 922743.4/50

All: -249.091+/-0.048 χ^2/NDF : 1444955.6/95

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -112.174 ± 1.722 $\chi^2/\text{NDF}: 251.7/4$

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 $\chi^2/\text{NDF}: 1307.8/47$

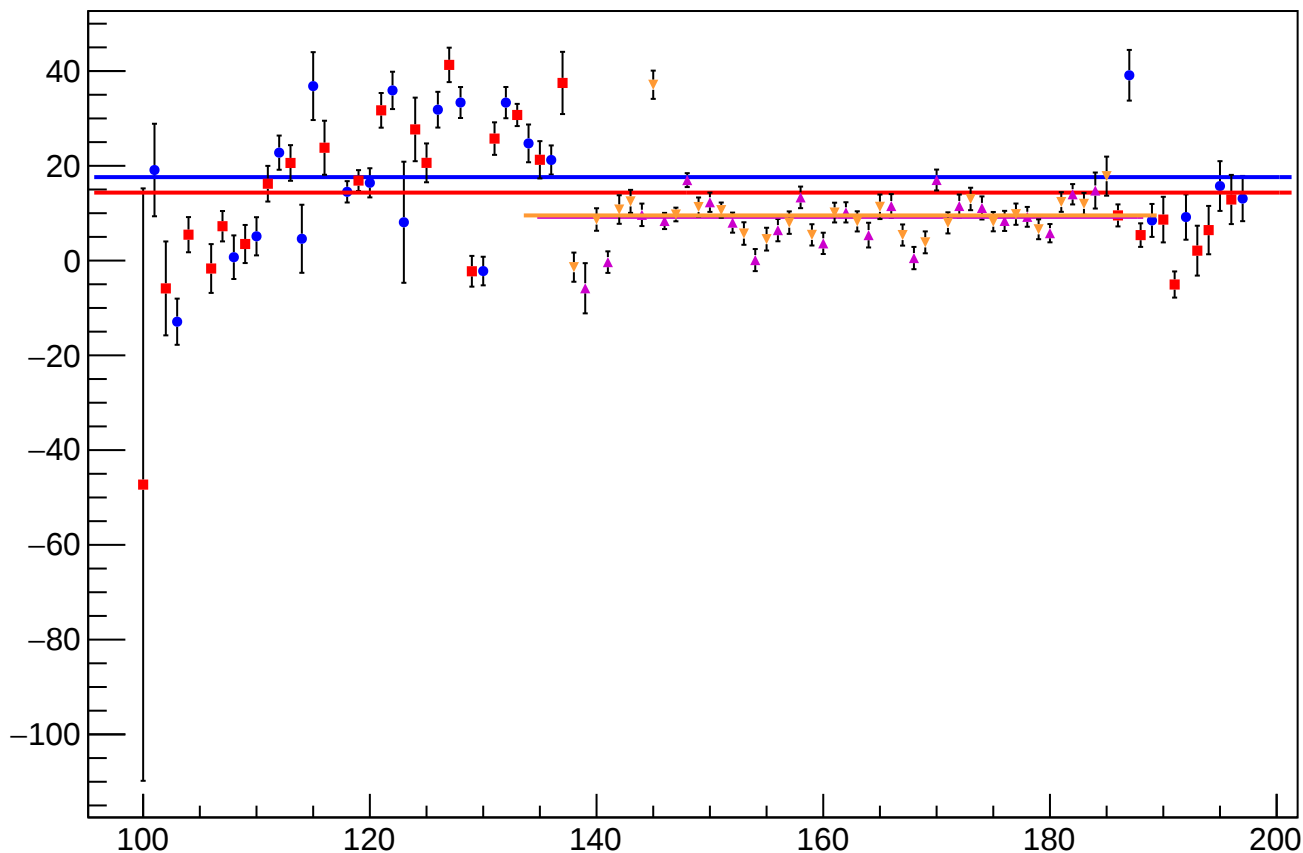
Right: -90.282 ± 0.887 $\chi^2/\text{NDF}: 3260.1/11$

In: -55.906 ± 0.553 $\chi^2/\text{NDF}: 1986.4/27$

Out: -58.284 ± 0.501 $\chi^2/\text{NDF}: 4258.2/31$

All: -57.211 ± 0.371 $\chi^2/\text{NDF}: 6254.8/59$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.616 $\pm$ 0.837 χ^2 /NDF: 234.1/21

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 14.346 $\pm$ 0.712 χ^2 /NDF: 301.2/25

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

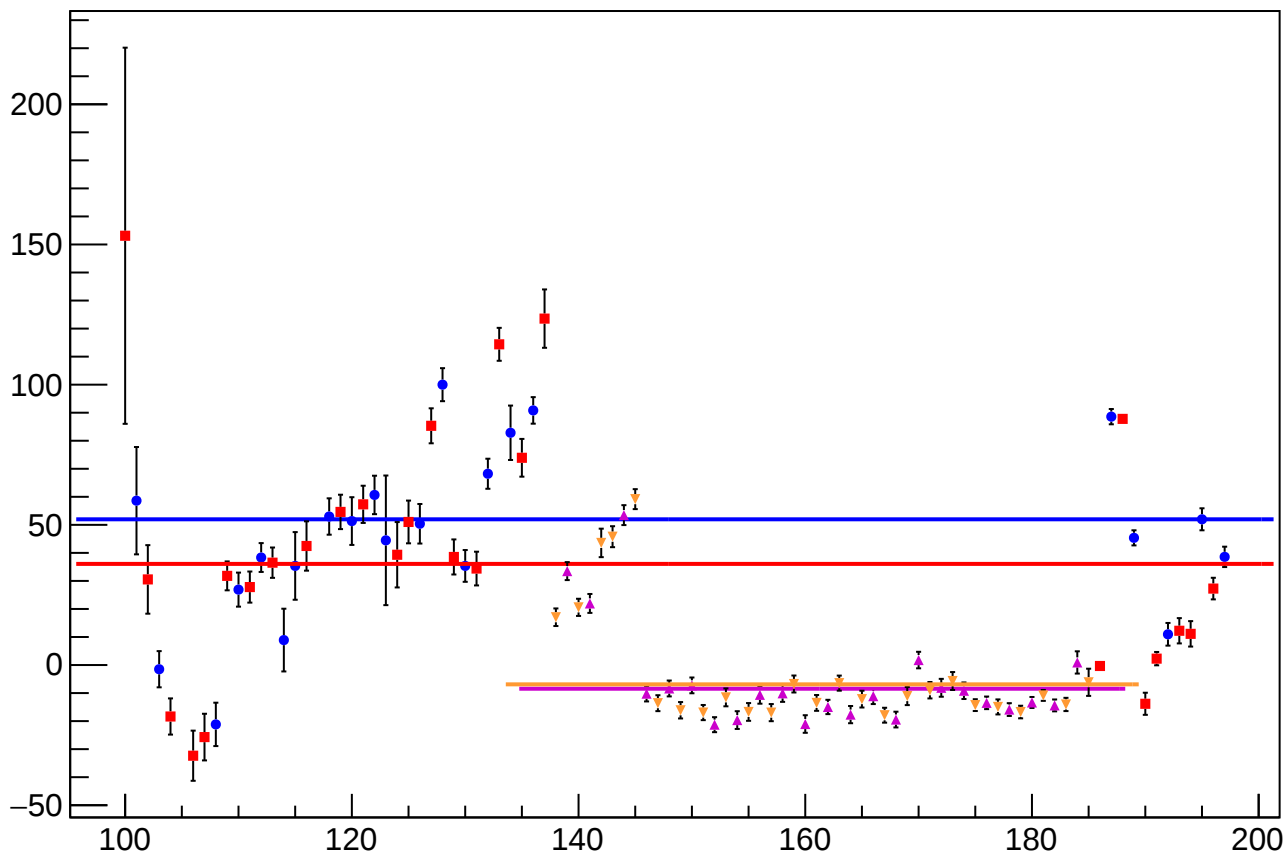
Right: 15.718 $\pm$ 0.542 χ^2 /NDF: 544.2/47

In: 11.186 $\pm$ 0.404 χ^2 /NDF:435.0/44

Out: 10.887 $\pm$ 0.378 χ^2 /NDF:468.4/50

All: 11.026 $\pm$ 0.276 χ^2 /NDF: 903.7/95

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 51.977 $\pm$ 1.099 χ^2 /NDF: 665.2/21

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

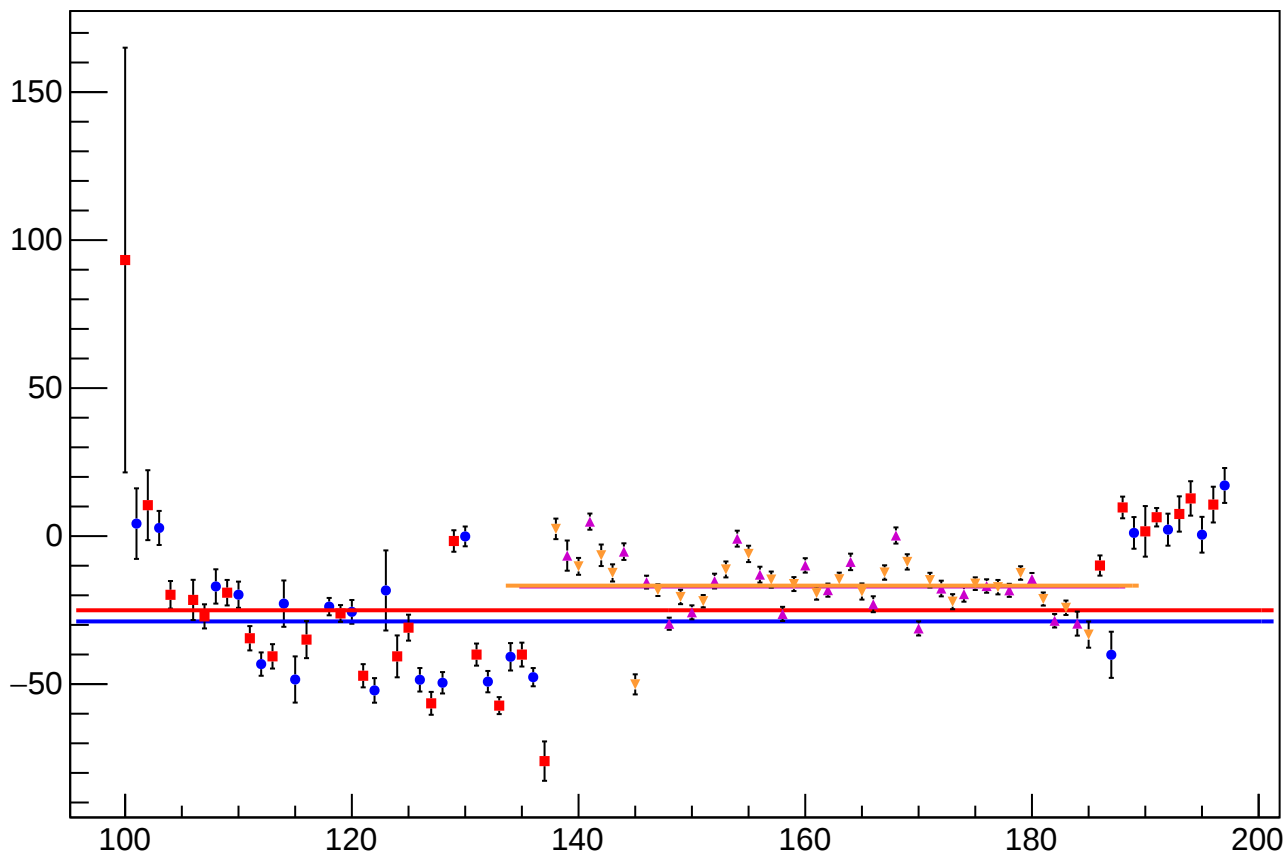
Right: 41.246 $\pm$ 0.627 χ^2 /NDF: 3668.0/47

In: 4.711 $\pm$ 0.513 χ^2 /NDF: 3719.9/44

Out: 8.534 $\pm$ 0.457 χ^2 /NDF: 5807.8/50

All: 6.841 $\pm$ 0.341 χ^2 /NDF: 9558.7/95

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.821 ± 0.973 χ^2/NDF : 459.6/21

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -25.058 ± 0.852 χ^2/NDF : 726.5/25

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

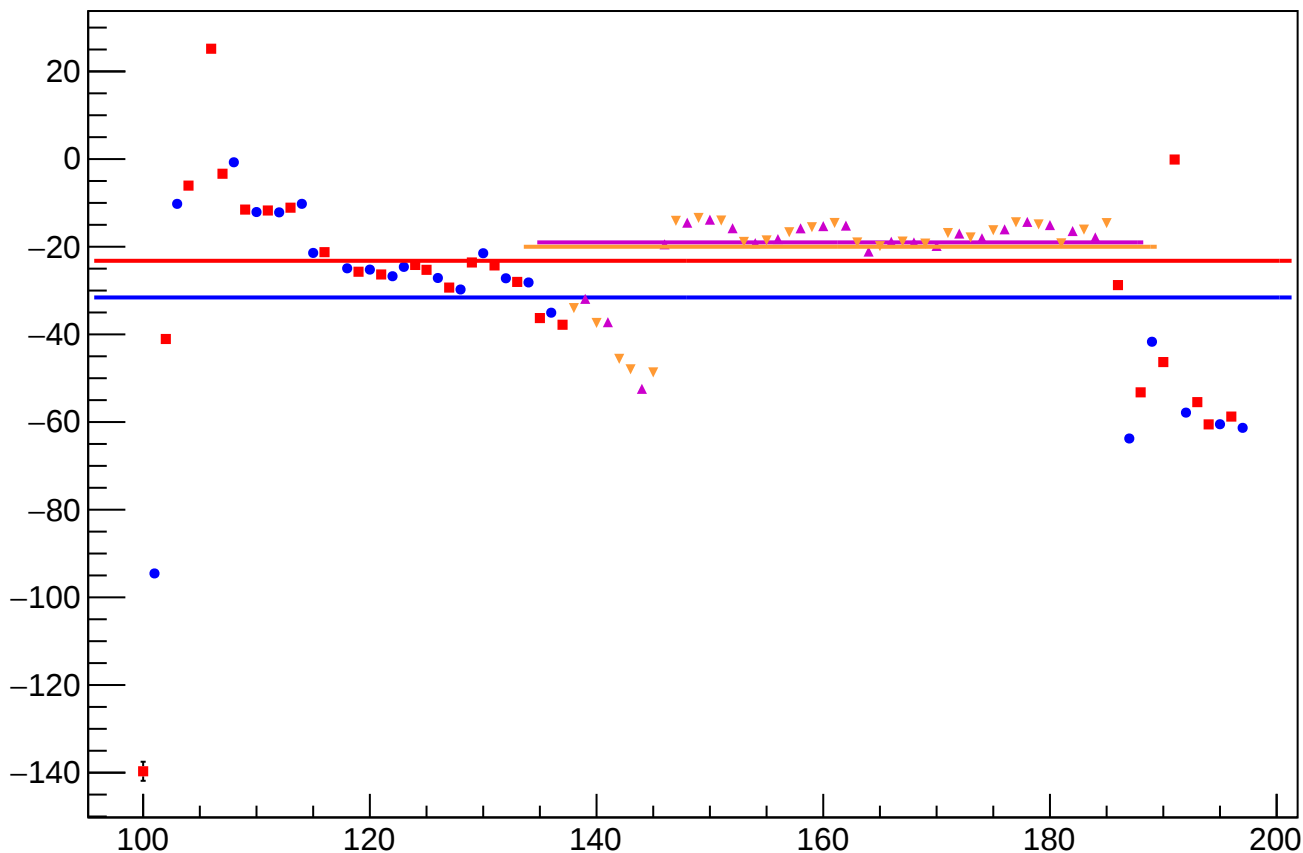
Right: -26.692 ± 0.641 χ^2/NDF : 1194.5/47

In: -19.659 ± 0.460 χ^2/NDF : 901.4/44

Out: -18.907 ± 0.436 χ^2/NDF : 1020.3/50

All: -19.263 ± 0.316 χ^2/NDF : 1923.0/95

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -31.572 ± 0.050 $\chi^2/\text{NDF}: 157979.4/21$

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 $\chi^2/\text{NDF}: 237400.2/47$

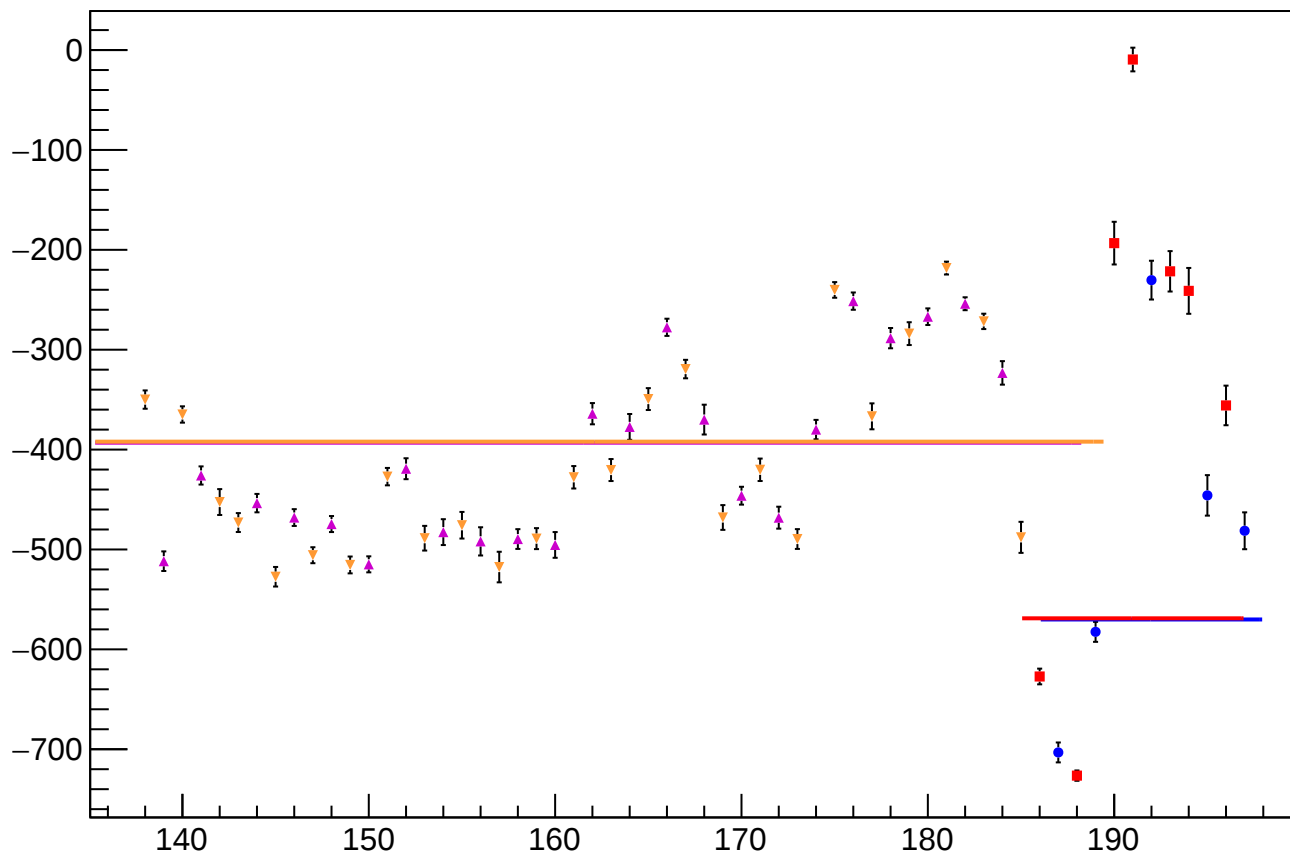
Right: -26.580 ± 0.032 $\chi^2/\text{NDF}: 487058.6/47$

In: -21.318 ± 0.021 $\chi^2/\text{NDF}: 300662.3/44$

Out: -20.788 ± 0.020 $\chi^2/\text{NDF}: 462530.2/50$

All: -21.039 ± 0.015 $\chi^2/\text{NDF}: 763516.7/95$

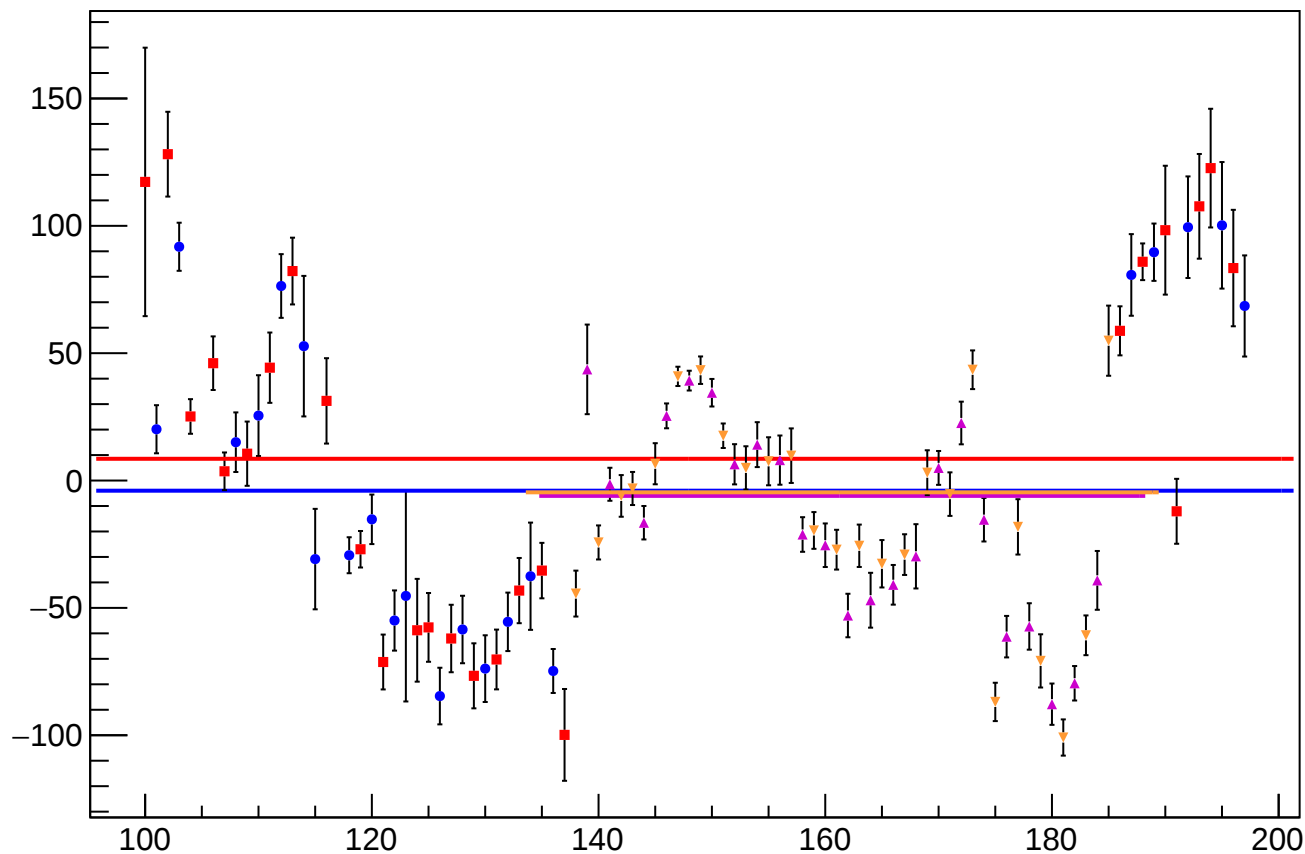
reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -570.093 $\pm$ 5.967 χ^2 /NDF: 547.0/4
 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: -569.267 $\pm$ 3.199 χ^2 /NDF: 4676.7/11
 In: -411.078 $\pm$ 1.901 χ^2 /NDF:3590.8/27
 Out: -429.593 $\pm$ 1.745 χ^2 /NDF:8563.7/31
 All: -421.124 $\pm$ 1.286 χ^2 /NDF: 12205.9/59

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.988 ± 2.638 $\chi^2/\text{NDF}: 539.7/21$

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 $\chi^2/\text{NDF}: 1427.4/47$

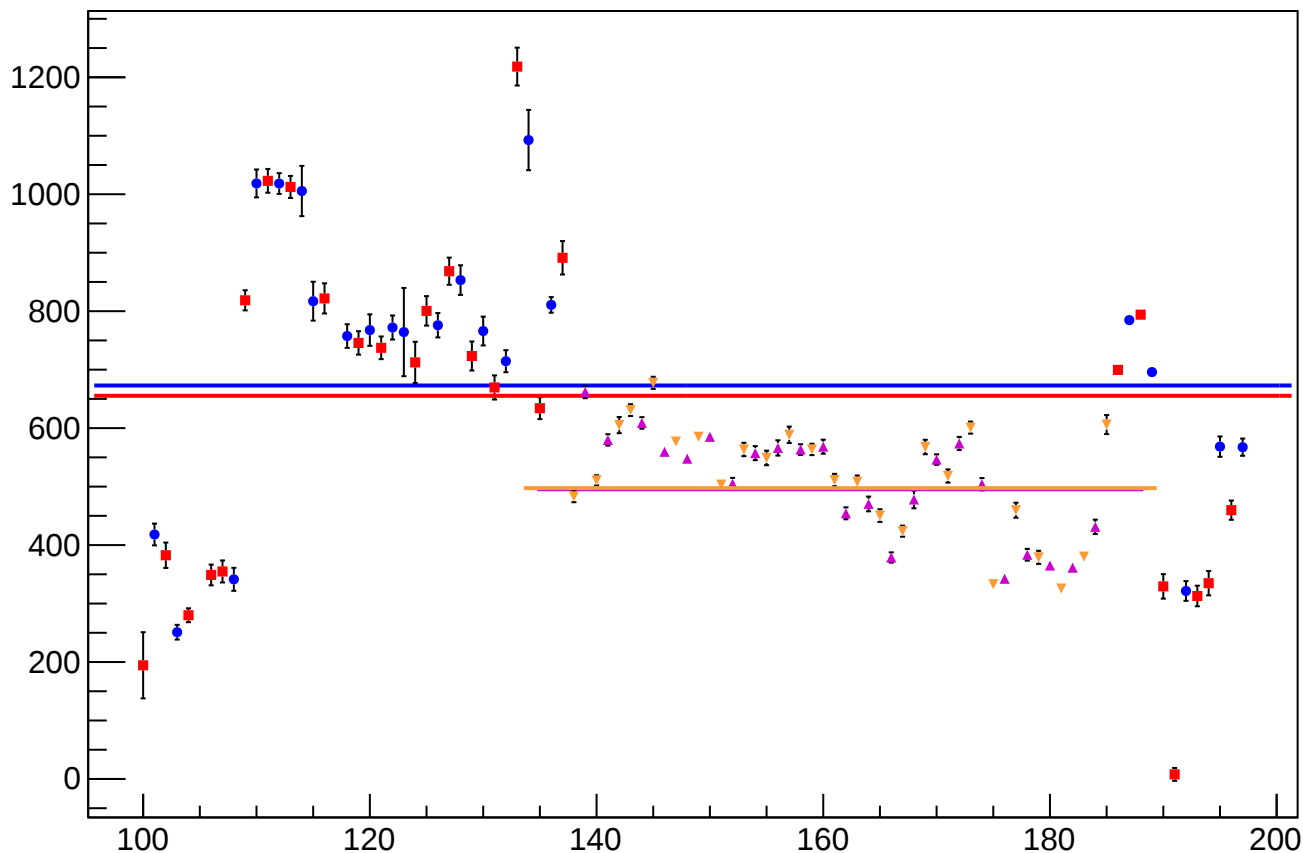
Right: 3.152 ± 1.730 $\chi^2/\text{NDF}: 1184.9/47$

In: -5.514 ± 1.315 $\chi^2/\text{NDF}: 1194.2/44$

Out: -0.814 ± 1.233 $\chi^2/\text{NDF}: 1428.7/50$

All: -3.013 ± 0.899 $\chi^2/\text{NDF}: 2629.8/95$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 672.914+/-3.543 χ^2/NDF : 3295.7/21

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 655.322+/-2.607 χ^2/NDF : 8765.2/25

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

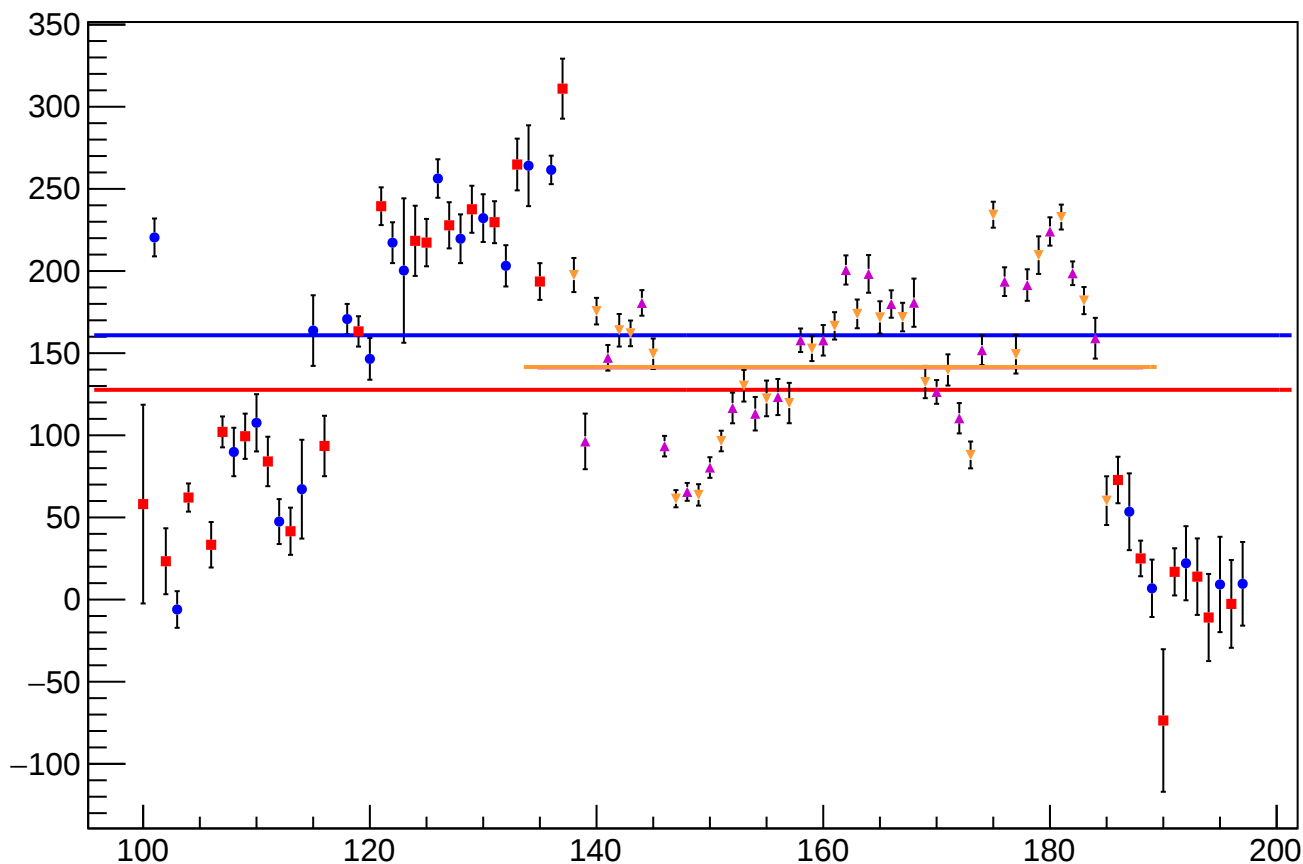
Right: 661.502+/-2.100 χ^2/NDF : 12076.9/47

In: 538.088+/-1.736 χ^2/NDF : 7455.9/44

Out: 554.636+/-1.570 χ^2/NDF : 13719.6/50

All: 547.195+/-1.164 χ^2/NDF : 21225.4/95

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 160.893 $\pm$ 3.090 χ^2 /NDF: 855.1/21

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

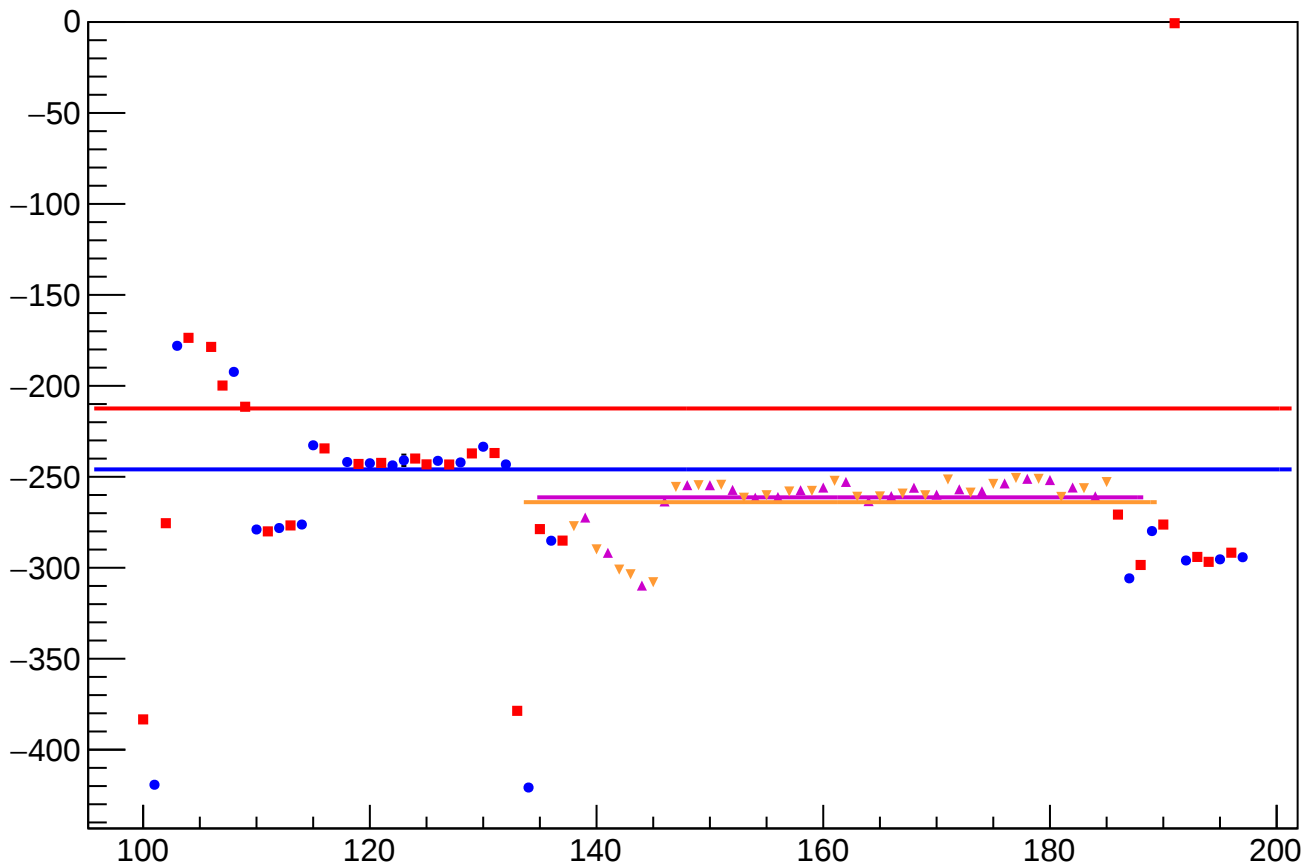
Right: 142.418 $\pm$ 2.058 χ^2 /NDF: 1923.8/47

In: 146.096 $\pm$ 1.521 χ^2 /NDF:1626.6/44

Out: 137.767 $\pm$ 1.446 χ^2 /NDF:1982.5/50

All: 141.721 $\pm$ 1.048 χ^2 /NDF: 3624.8/95

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.923+/-0.149 χ^2/NDF : 183872.0/21

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

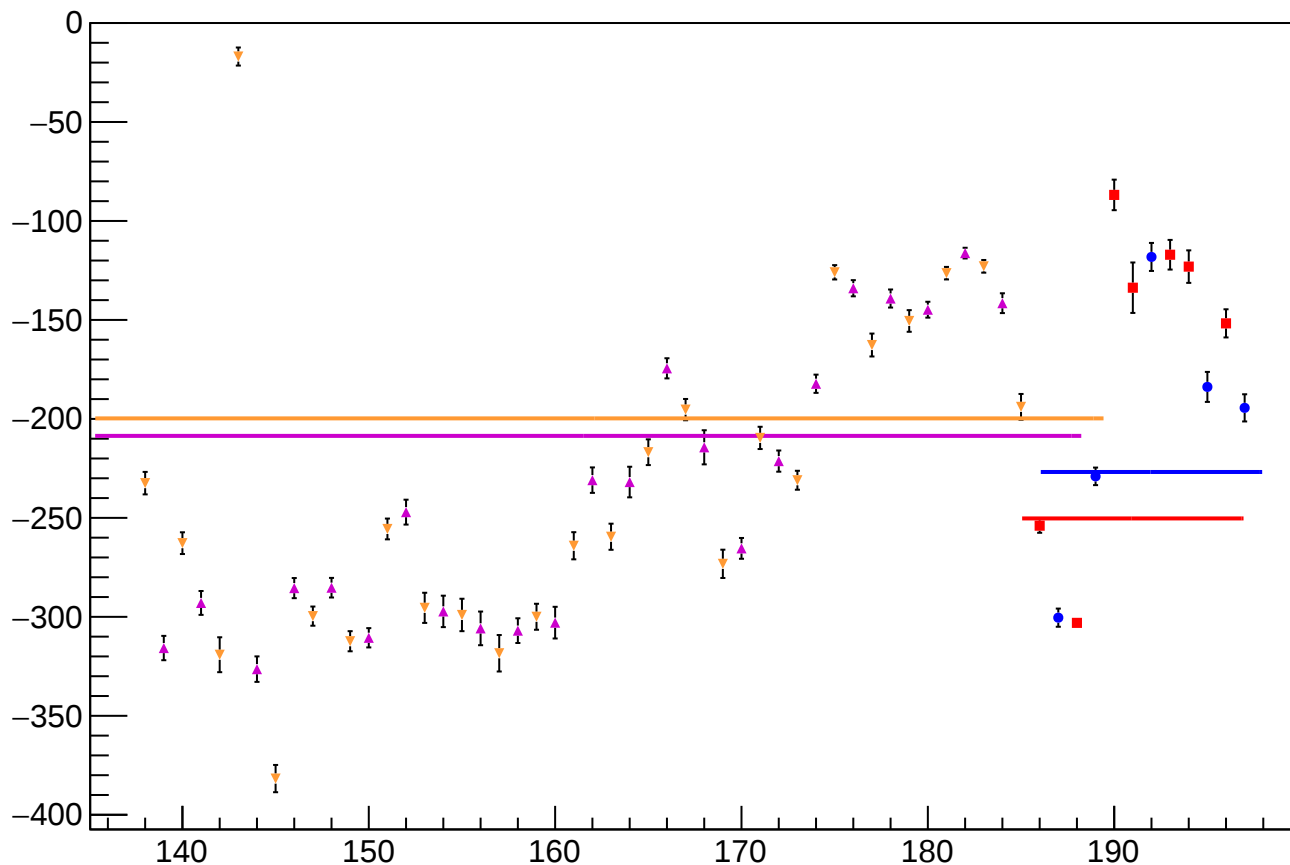
Right: -226.872+/-0.098 χ^2/NDF : 674545.7/47

In: -257.711+/-0.072 χ^2/NDF : 215395.1/44

Out: -249.408+/-0.069 χ^2/NDF : 614386.9/50

All: -253.384+/-0.050 χ^2/NDF : 836750.2/95

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -226.816 ± 2.525 $\chi^2/\text{NDF}: 547.2/4$

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 $\chi^2/\text{NDF}: 11200.6/47$

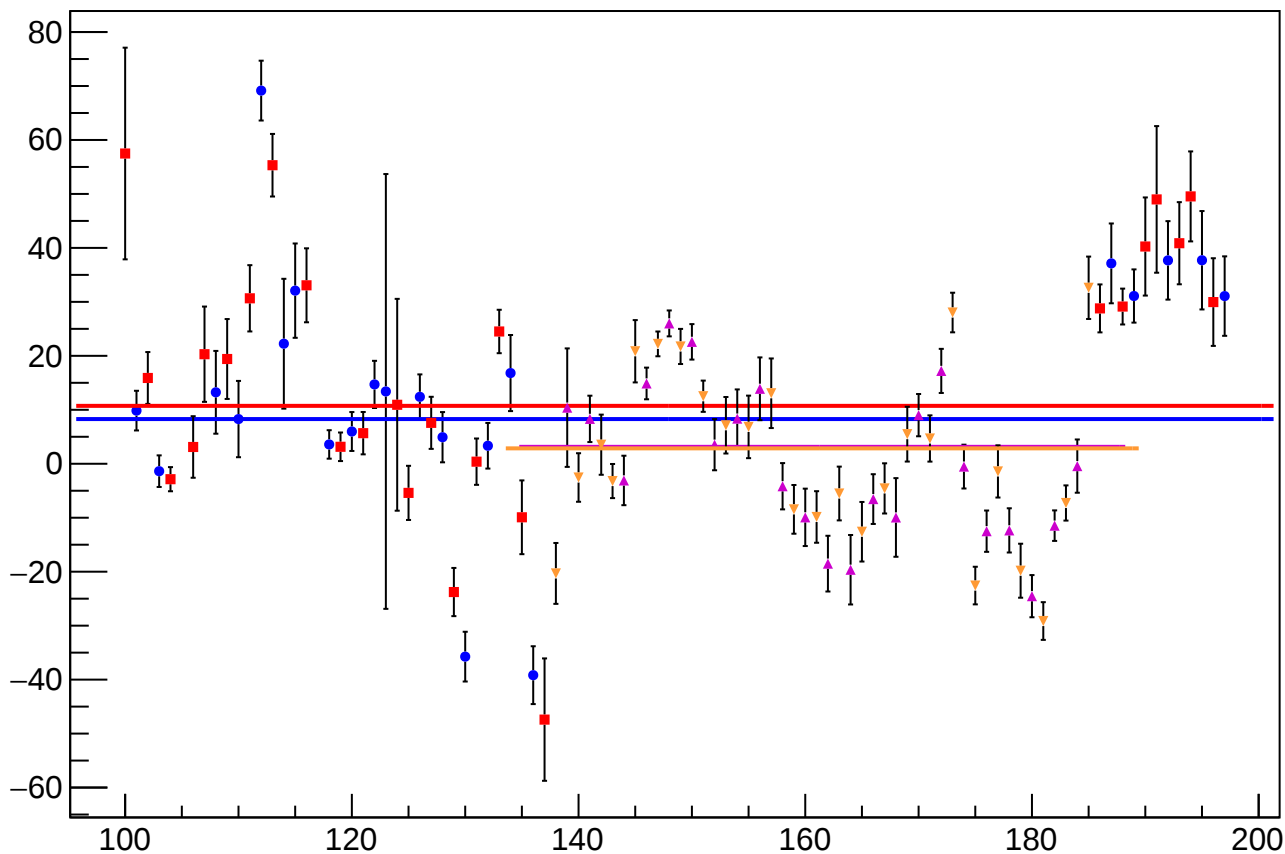
Right: -242.737 ± 1.432 $\chi^2/\text{NDF}: 2383.1/11$

In: -211.411 ± 0.995 $\chi^2/\text{NDF}: 5396.4/27$

Out: -213.463 ± 0.906 $\chi^2/\text{NDF}: 8754.7/31$

All: -212.533 ± 0.670 $\chi^2/\text{NDF}: 14153.5/59$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.283 ± 1.040 $\chi^2/\text{NDF}: 393.5/21$

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 $\chi^2/\text{NDF}: 739.7/47$

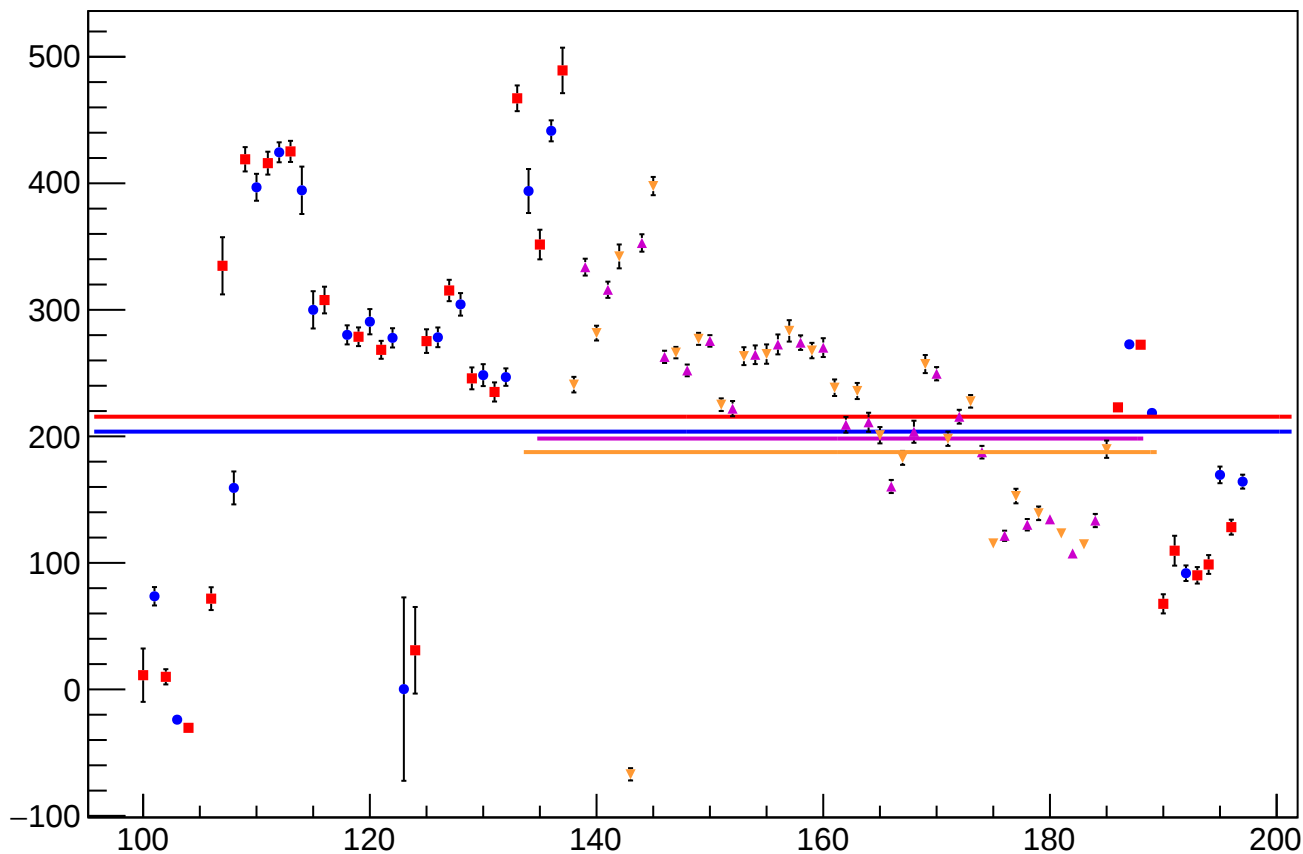
Right: 9.601 ± 0.706 $\chi^2/\text{NDF}: 766.7/47$

In: 5.216 ± 0.661 $\chi^2/\text{NDF}: 727.8/44$

Out: 6.165 ± 0.624 $\chi^2/\text{NDF}: 828.9/50$

All: 5.718 ± 0.454 $\chi^2/\text{NDF}: 1557.9/95$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 203.739 $\pm$ 1.447 χ^2 /NDF: 7479.5/21

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 215.544 $\pm$ 1.147 χ^2 /NDF: 10551.3/25

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF:4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

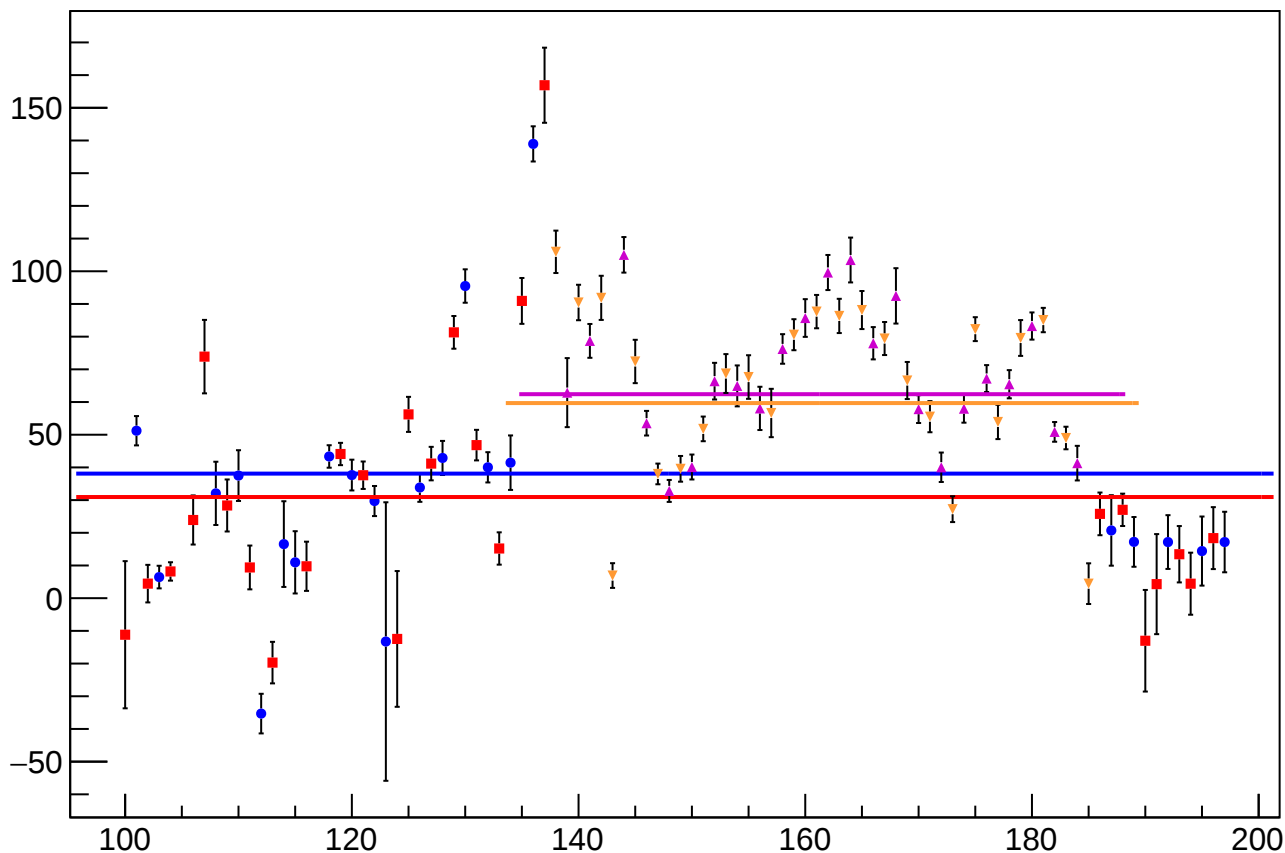
Right: 210.990 $\pm$ 0.899 χ^2 /NDF: 18071.6/47

In: 200.229 $\pm$ 0.866 χ^2 /NDF:12004.4/44

Out: 200.532 $\pm$ 0.781 χ^2 /NDF:17952.7/50

All: 200.396 $\pm$ 0.580 χ^2 /NDF: 29957.2/95

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.104 $\pm$ 1.225 χ^2 /NDF: 763.4/21

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF:757.6/24

Right Out: 30.942 $\pm$ 1.158 χ^2 /NDF: 578.2/25

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF:406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

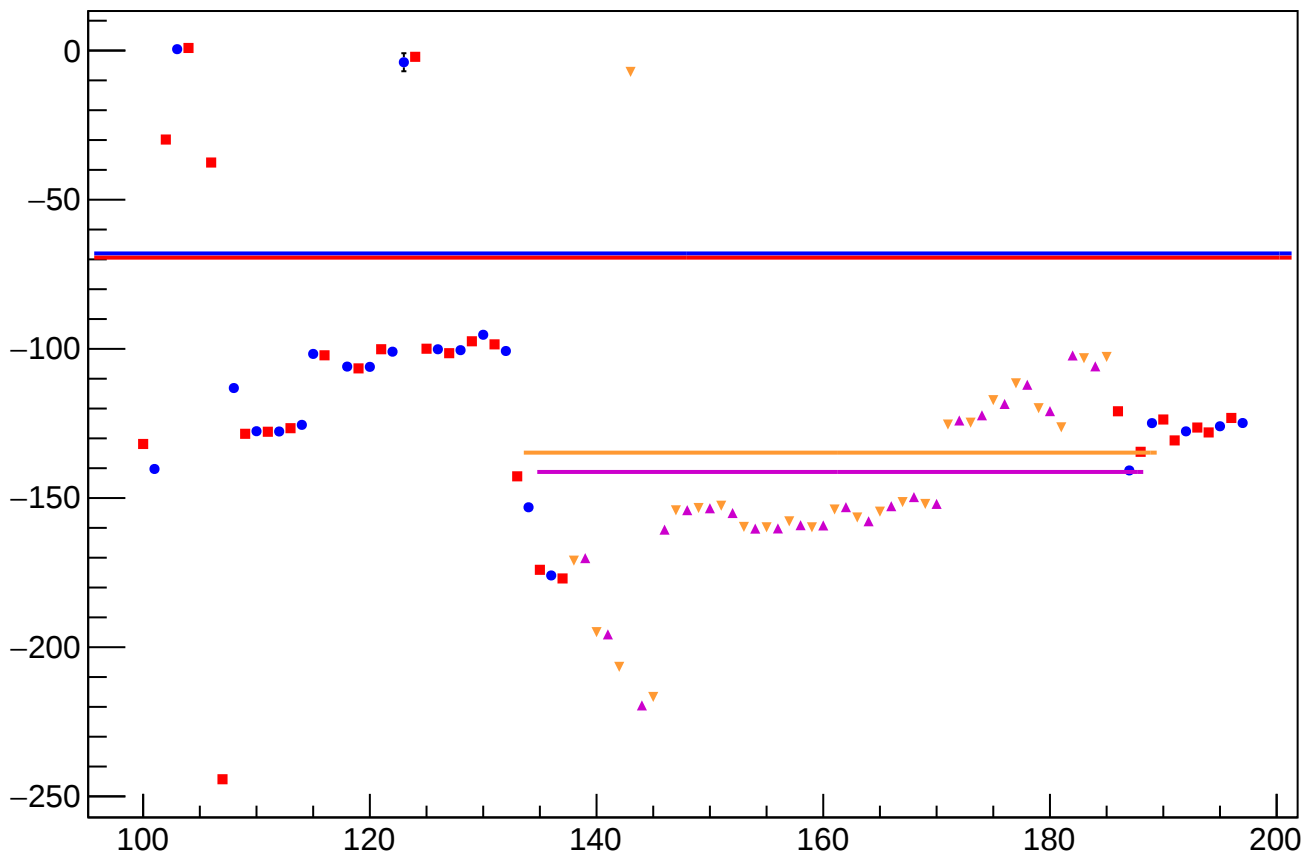
Right: 34.321 $\pm$ 0.841 χ^2 /NDF: 1359.6/47

In: 52.989 $\pm$ 0.762 χ^2 /NDF:1410.6/44

Out: 48.254 $\pm$ 0.730 χ^2 /NDF:1706.9/50

All: 50.519 $\pm$ 0.527 χ^2 /NDF: 3137.6/95

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -68.016 $\pm$ 0.057 χ^2 /NDF: 1286771.9/21

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

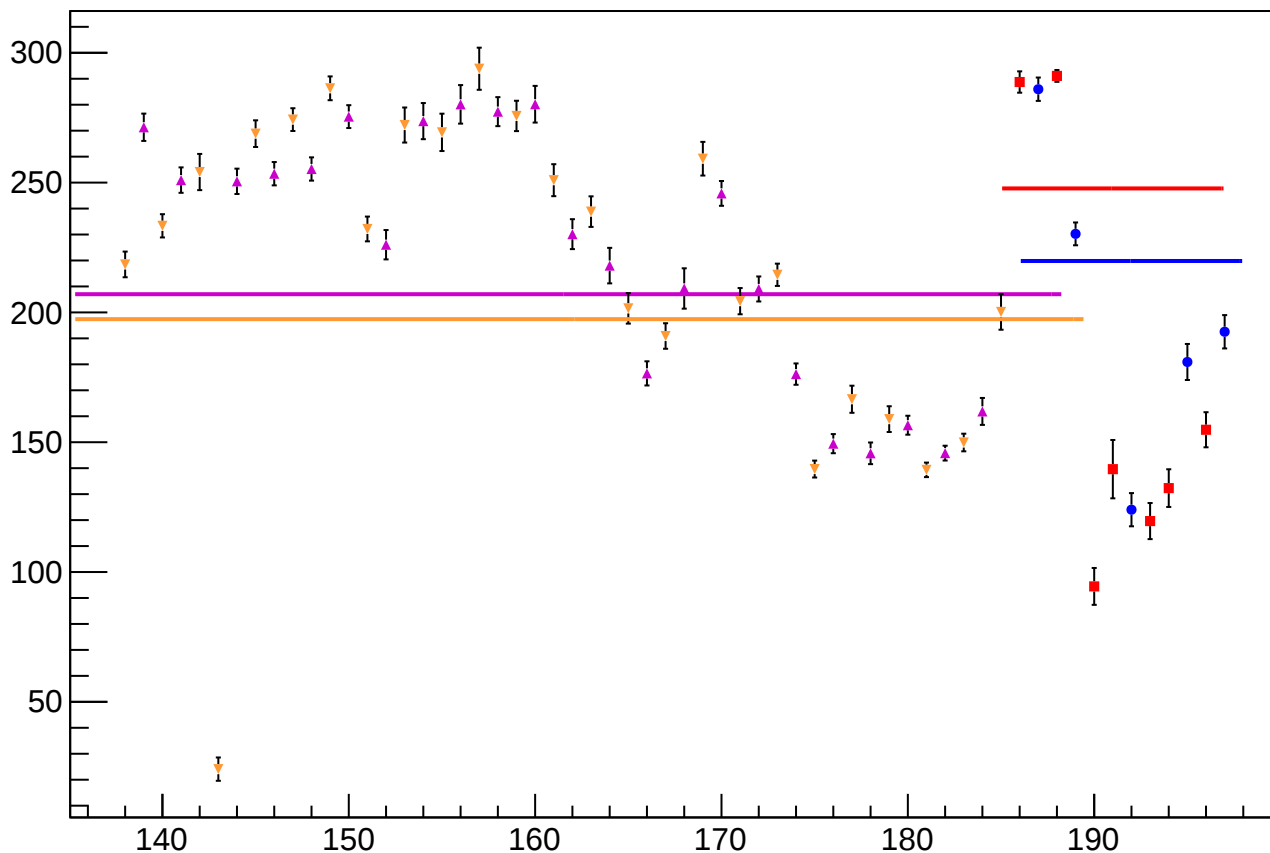
Right: -68.754 $\pm$ 0.039 χ^2 /NDF: 2583114.9/47

In: -112.949 $\pm$ 0.035 χ^2 /NDF: 2644647.0/44

Out: -108.283 $\pm$ 0.034 χ^2 /NDF: 2975317.9/50

All: -110.539 $\pm$ 0.025 χ^2 /NDF: 5628902.6/95

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.809 $\pm$ 2.421 χ^2 /NDF: 495.7/4

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF: 4384.2/24

Right Out: 247.752 $\pm$ 1.713 χ^2 /NDF: 1801.0/6

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF: 2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

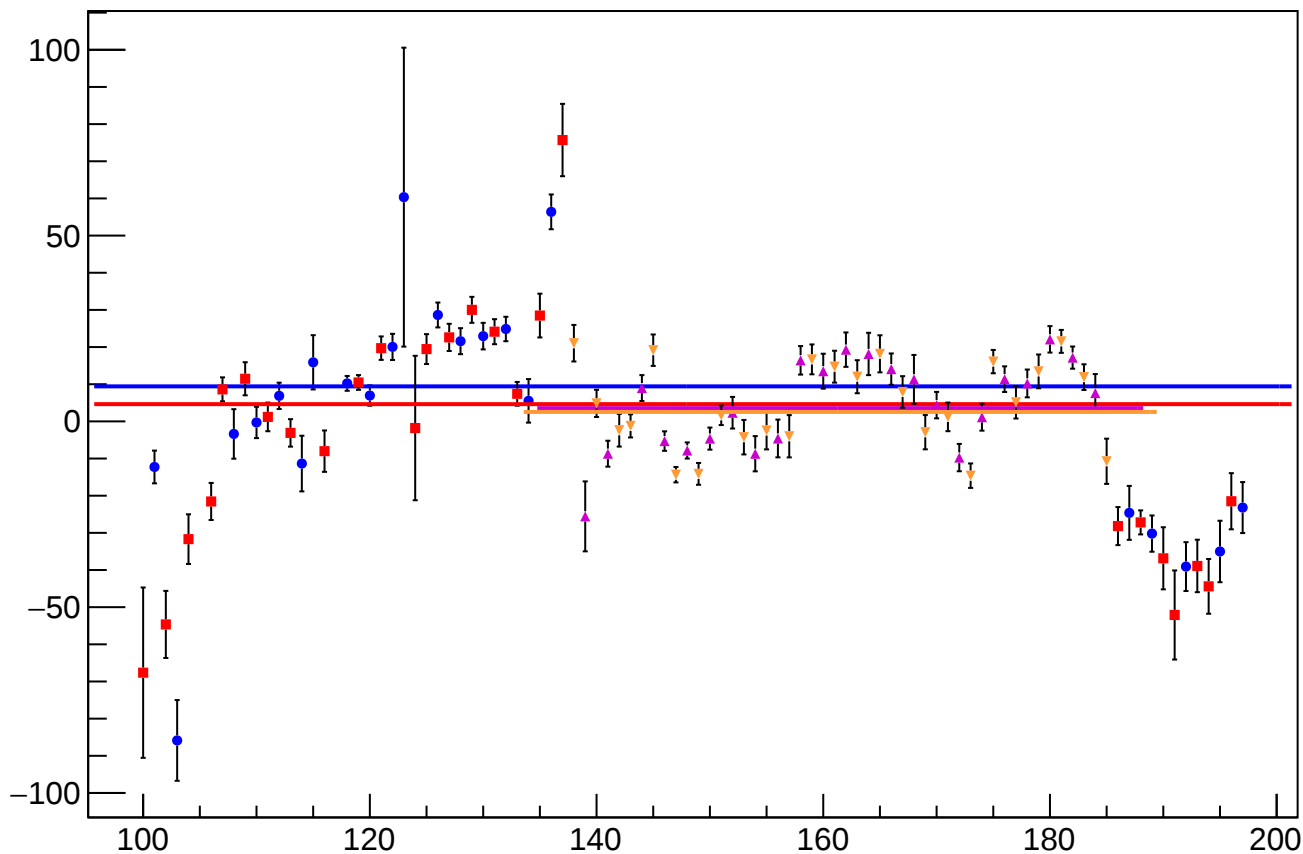
Right: 238.433 $\pm$ 1.398 χ^2 /NDF: 2385.6/11

In: 208.848 $\pm$ 0.917 χ^2 /NDF: 3131.2/27

Out: 209.501 $\pm$ 0.839 χ^2 /NDF: 6841.9/31

All: 209.203 $\pm$ 0.619 χ^2 /NDF: 9973.4/59

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.422 ± 0.892 $\chi^2/\text{NDF}: 507.2/21$

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 $\chi^2/\text{NDF}: 468.3/47$

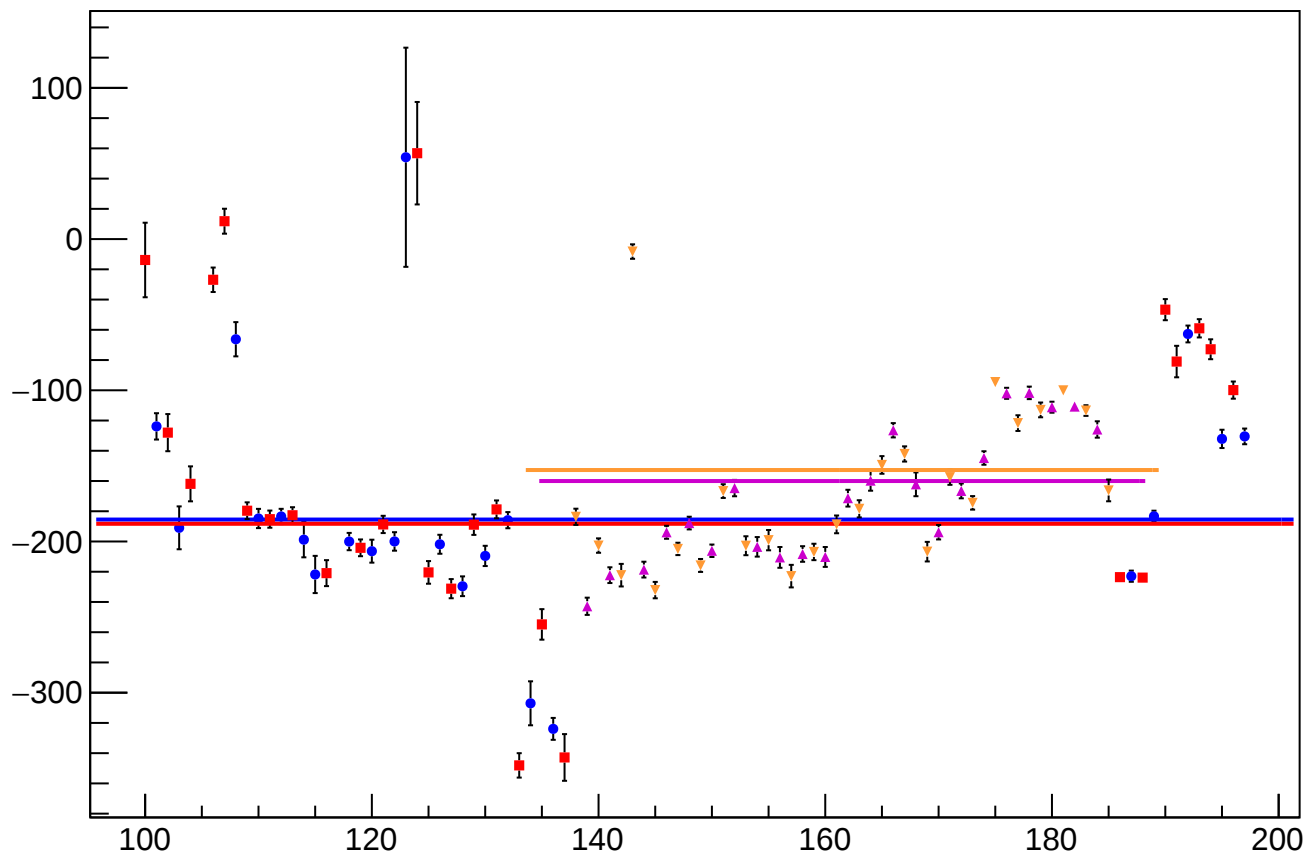
Right: 6.894 ± 0.613 $\chi^2/\text{NDF}: 1151.8/47$

In: 6.077 ± 0.585 $\chi^2/\text{NDF}: 723.9/44$

Out: 3.458 ± 0.557 $\chi^2/\text{NDF}: 908.2/50$

All: 4.703 ± 0.403 $\chi^2/\text{NDF}: 1642.6/95$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -185.490 ± 1.347 $\chi^2/\text{NDF}: 1482.6/21$

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 $\chi^2/\text{NDF}: 5129.9/47$

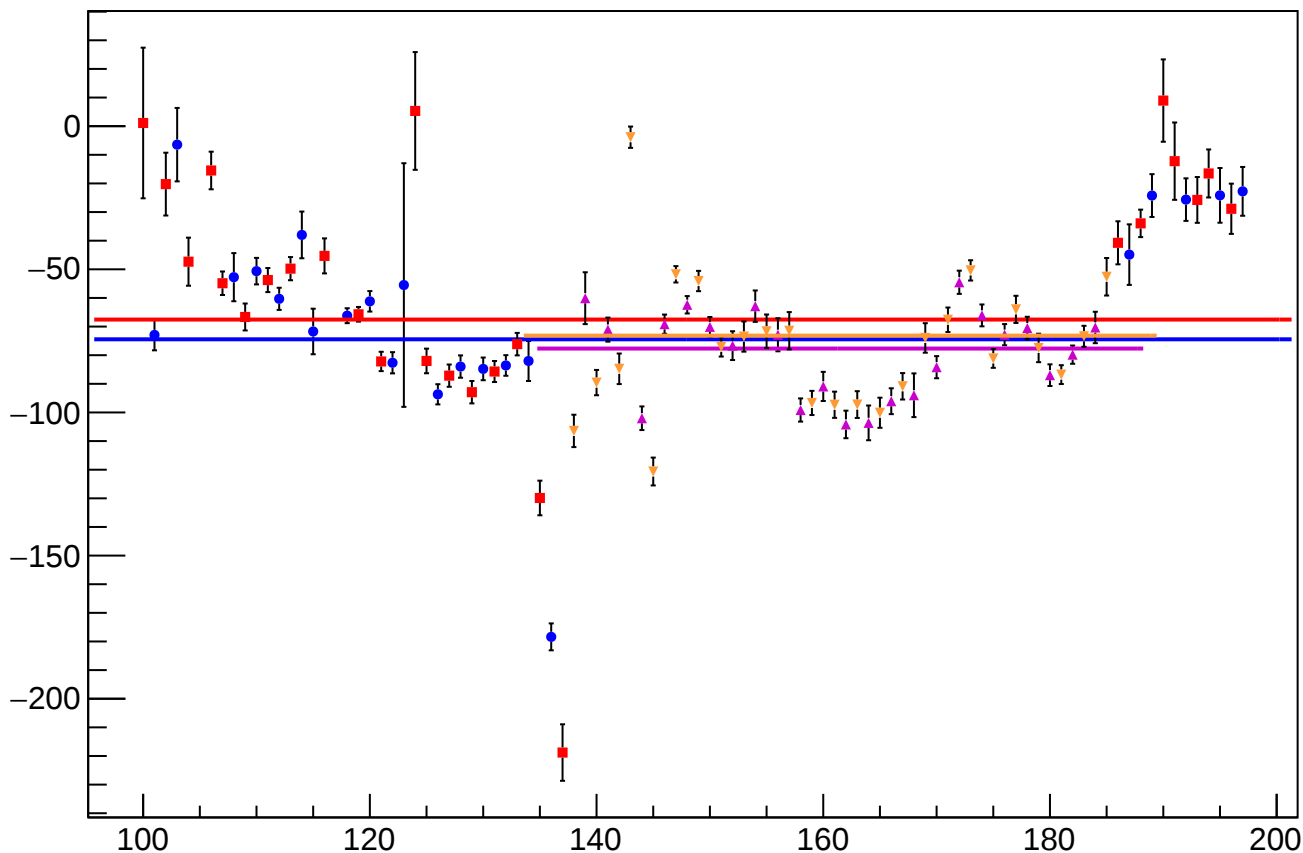
Right: -187.188 ± 0.846 $\chi^2/\text{NDF}: 5249.1/47$

In: -168.939 ± 0.797 $\chi^2/\text{NDF}: 3739.3/44$

Out: -168.434 ± 0.723 $\chi^2/\text{NDF}: 7438.7/50$

All: -168.662 ± 0.535 $\chi^2/\text{NDF}: 11178.2/95$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -74.448 ± 1.042 χ^2/NDF : 823.2/21

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -67.549 ± 0.993 χ^2/NDF : 818.4/25

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

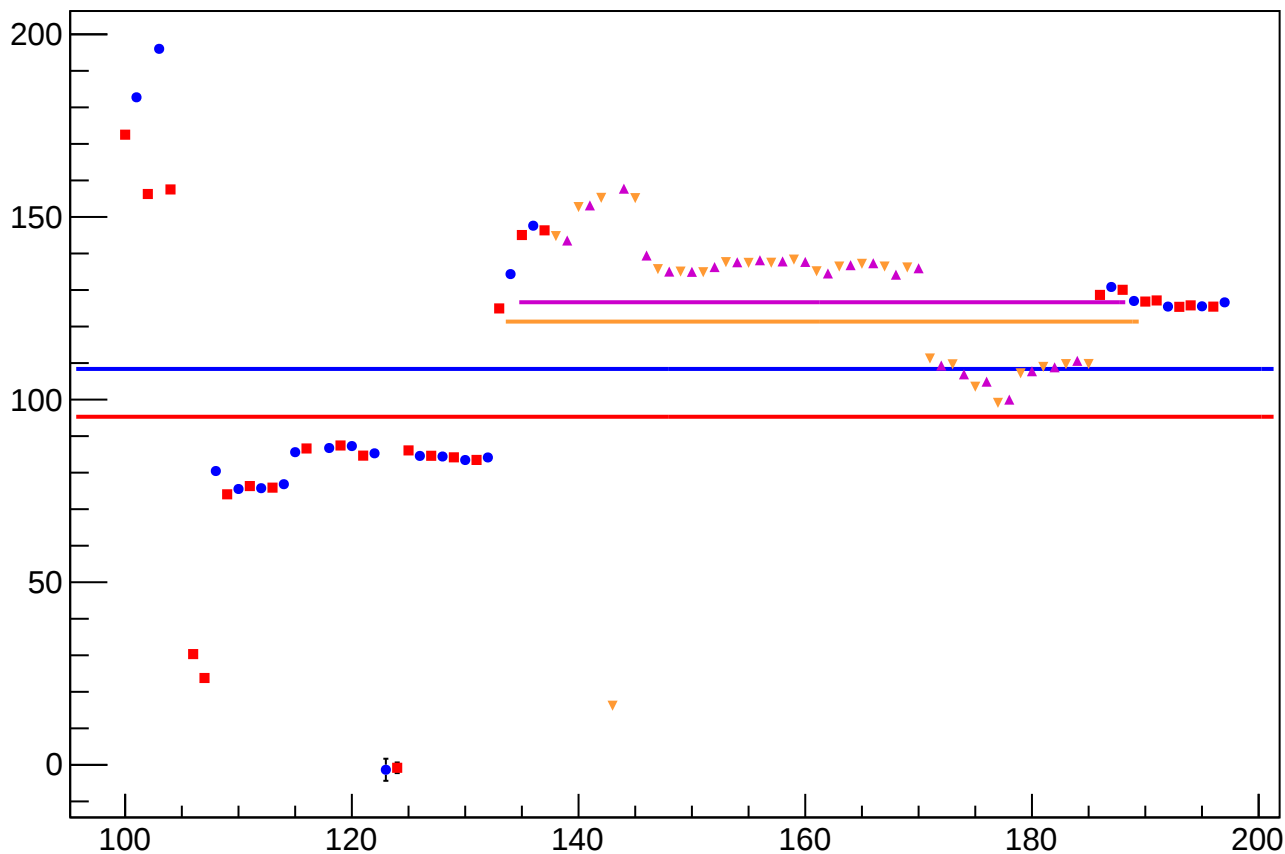
Right: -70.831 ± 0.719 χ^2/NDF : 1664.5/47

In: -76.328 ± 0.674 χ^2/NDF : 1077.0/44

Out: -70.785 ± 0.646 χ^2/NDF : 1625.4/50

All: -73.442 ± 0.466 χ^2/NDF : 2737.7/95

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 108.394 $\pm$ 0.063 χ^2 /NDF: 294637.4/21

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

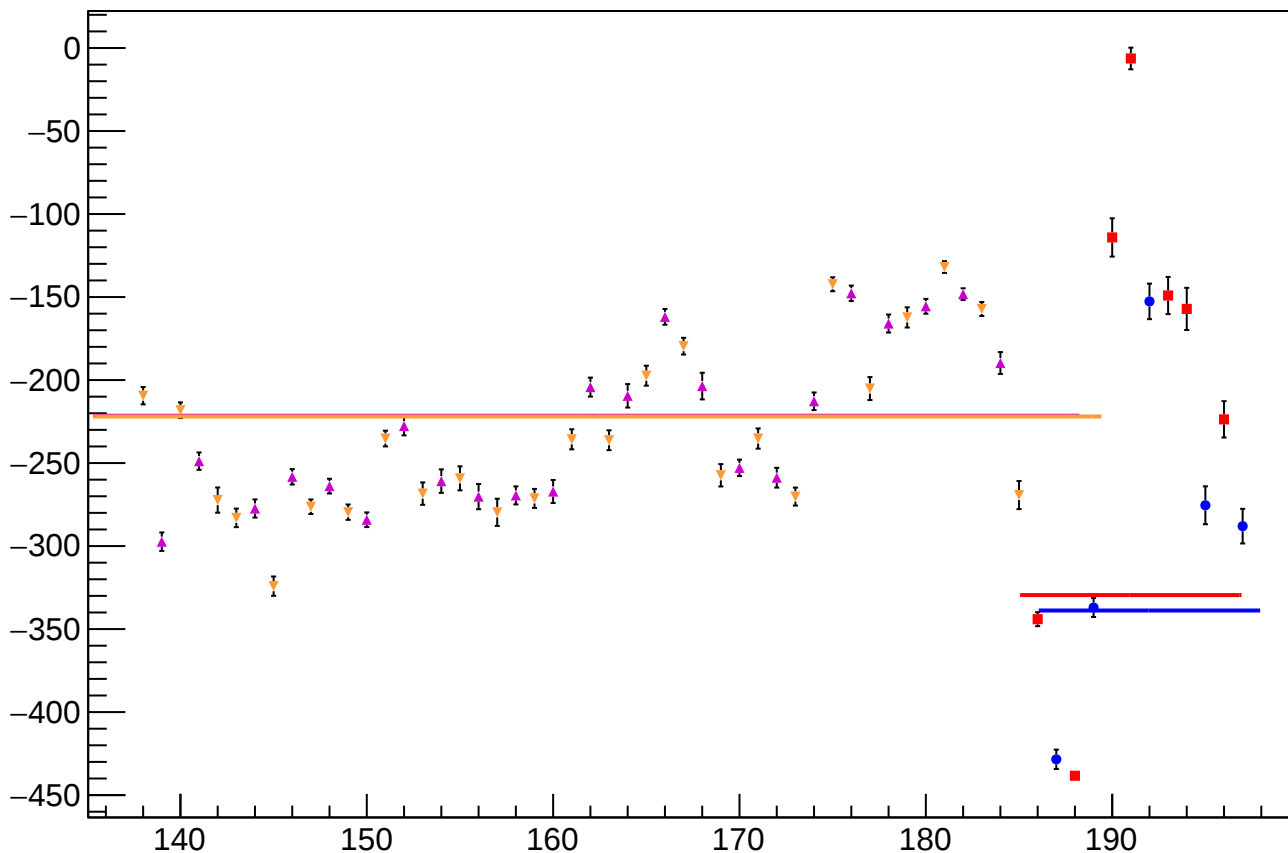
Right: 101.026 $\pm$ 0.042 χ^2 /NDF: 847152.8/47

In: 121.198 $\pm$ 0.034 χ^2 /NDF: 516713.9/44

Out: 112.352 $\pm$ 0.033 χ^2 /NDF: 1154544.2/50

All: 116.538 $\pm$ 0.024 χ^2 /NDF: 1706095.8/95

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -338.811 ± 3.413 χ^2/NDF : 593.6/4

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

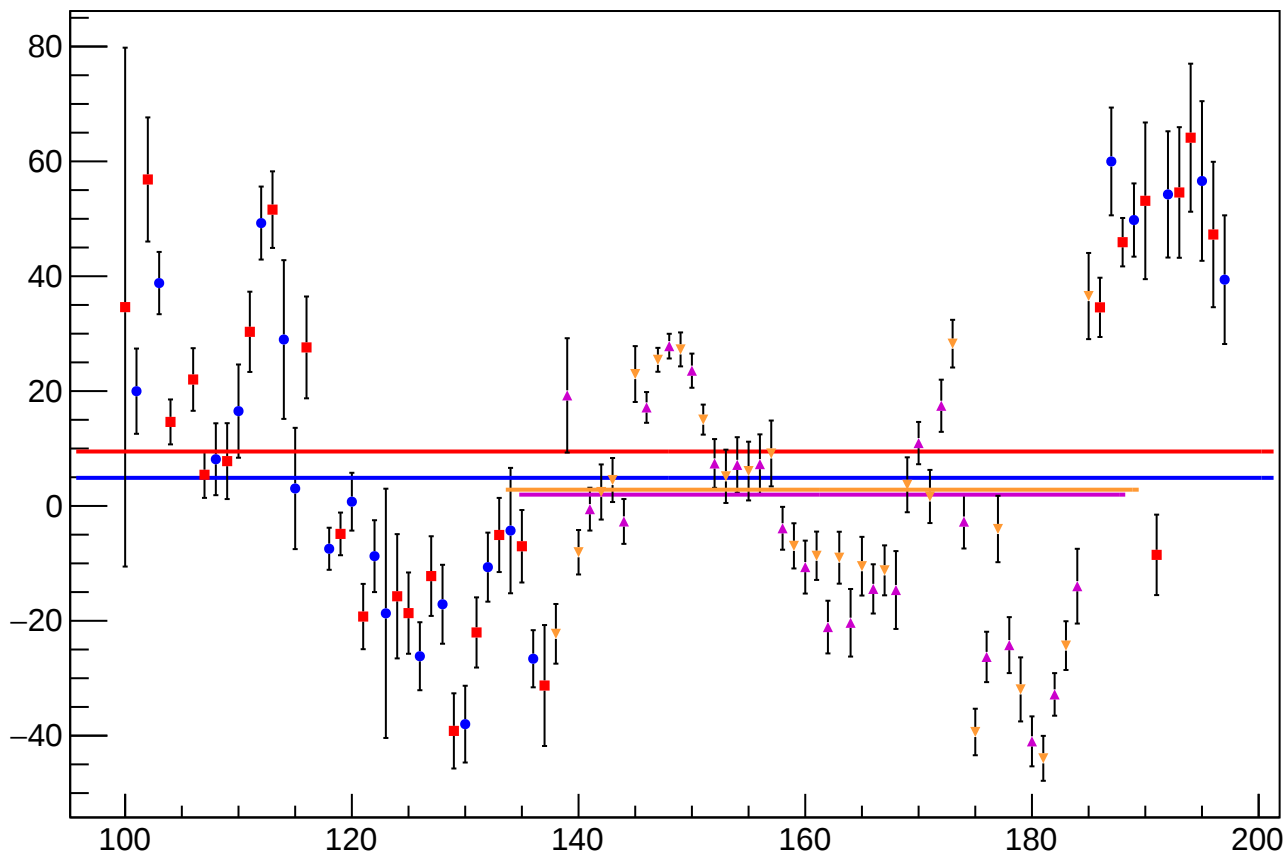
Right: -332.126 ± 1.812 χ^2/NDF : 5240.6/11

In: -232.564 ± 1.049 χ^2/NDF : 3813.5/27

Out: -243.928 ± 0.967 χ^2/NDF : 9231.9/31

All: -238.706 ± 0.711 χ^2/NDF : 13108.8/59

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.893 ± 1.444 $\chi^2/\text{NDF}: 369.3/21$

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 $\chi^2/\text{NDF}: 1276.5/47$

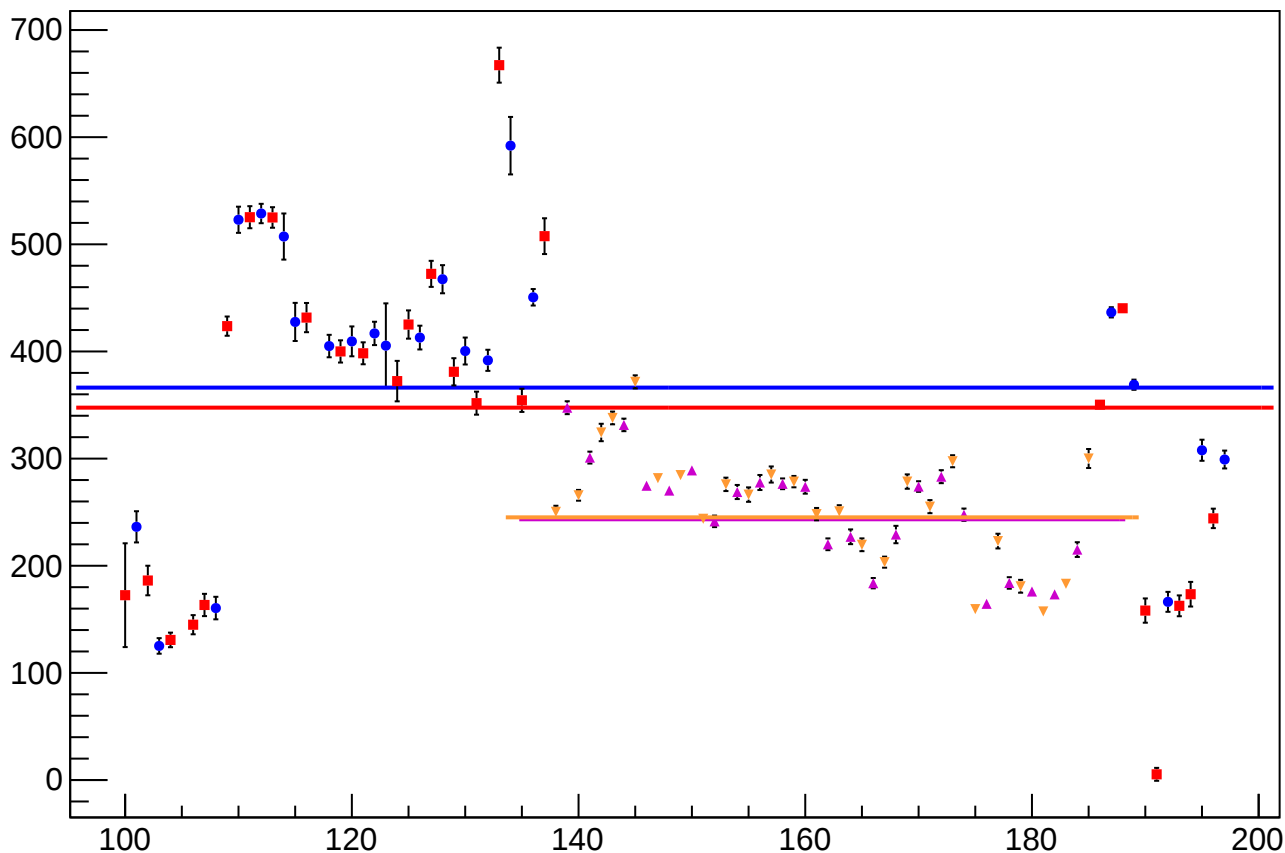
Right: 7.531 ± 0.941 $\chi^2/\text{NDF}: 793.7/47$

In: 2.701 ± 0.723 $\chi^2/\text{NDF}: 961.5/44$

Out: 4.807 ± 0.677 $\chi^2/\text{NDF}: 1125.7/50$

All: 3.823 ± 0.494 $\chi^2/\text{NDF}: 2091.7/95$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 366.266 $\pm$ 1.987 χ^2 /NDF: 3211.1/21

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

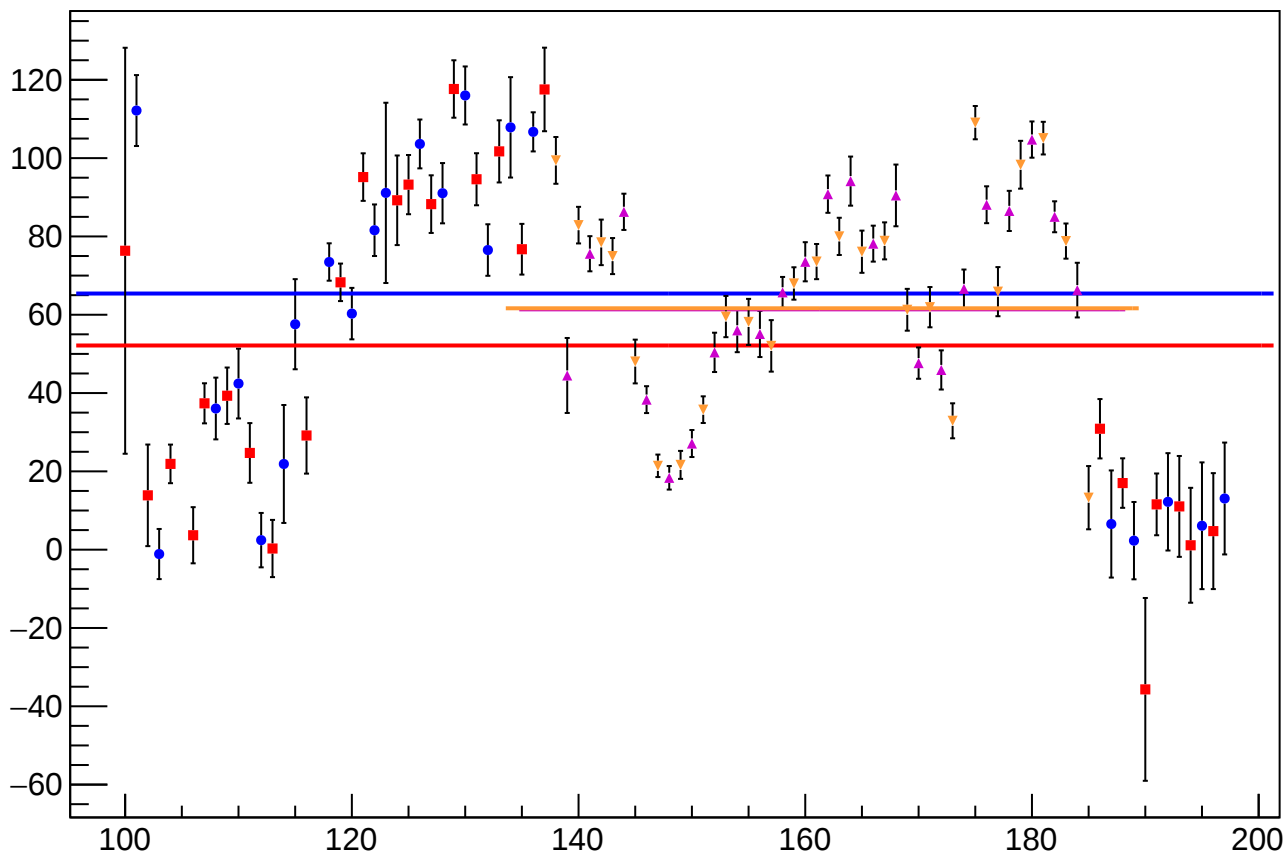
Right: 354.076 $\pm$ 1.172 χ^2 /NDF: 12343.9/47

In: 271.934 $\pm$ 0.958 χ^2 /NDF:8383.3/44

Out: 281.736 $\pm$ 0.868 χ^2 /NDF:14869.5/50

All: 277.320 $\pm$ 0.643 χ^2 /NDF: 23310.3/95

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 65.418+/-1.689 χ^2/NDF : 538.6/21

Left Out: 61.647+/-0.936 χ^2/NDF : 871.5/24

Right Out: 52.147+/-1.490 χ^2/NDF : 621.6/25

Left In: 61.375+/-0.961 χ^2/NDF : 699.7/22

Left: 61.515+/-0.671 χ^2/NDF : 1571.3/47

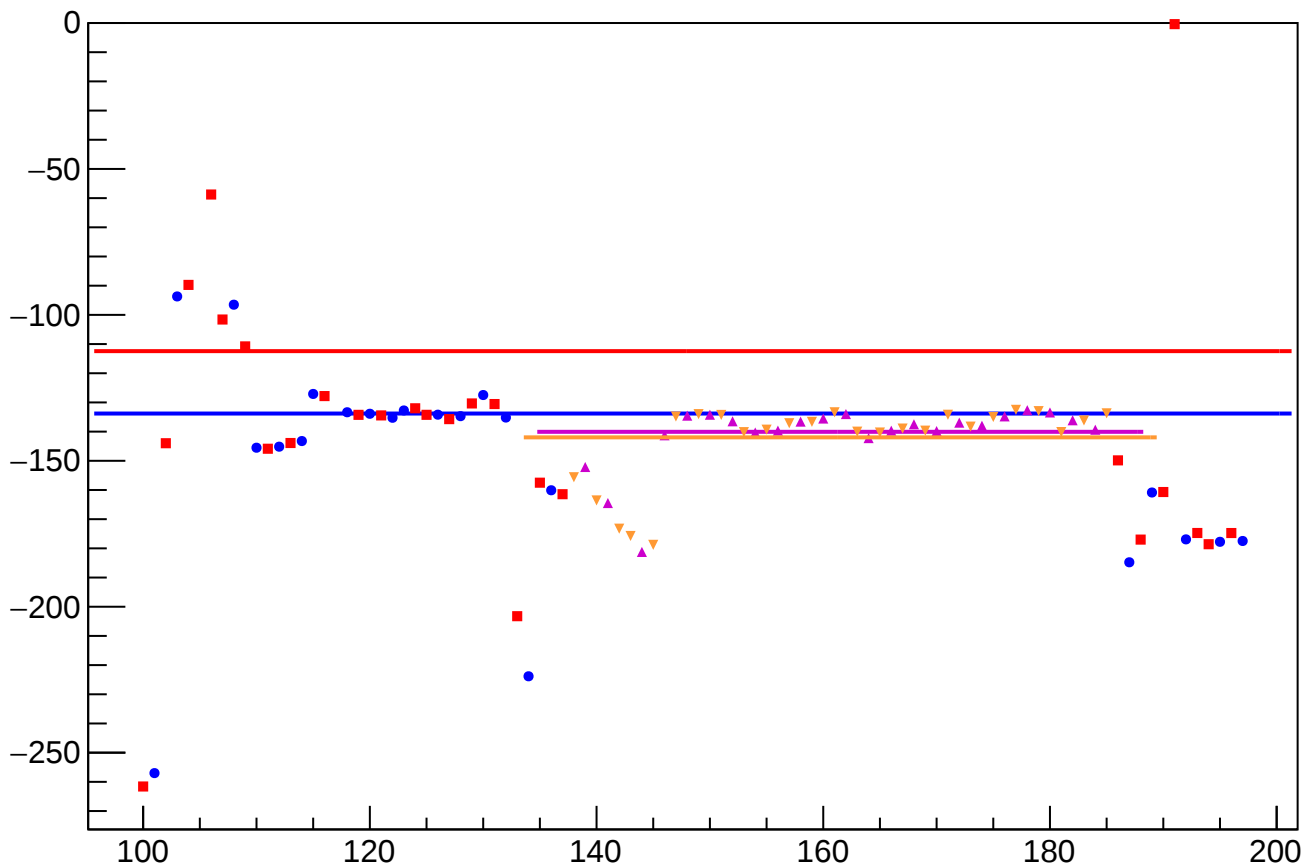
Right: 57.957+/-1.117 χ^2/NDF : 1195.0/47

In: 62.364+/-0.835 χ^2/NDF : 1242.6/44

Out: 58.959+/-0.793 χ^2/NDF : 1522.3/50

All: 60.573+/-0.575 χ^2/NDF : 2773.7/95

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -133.805 ± 0.083 $\chi^2/\text{NDF}: 207825.3/21$

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 $\chi^2/\text{NDF}: 129181.1/47$

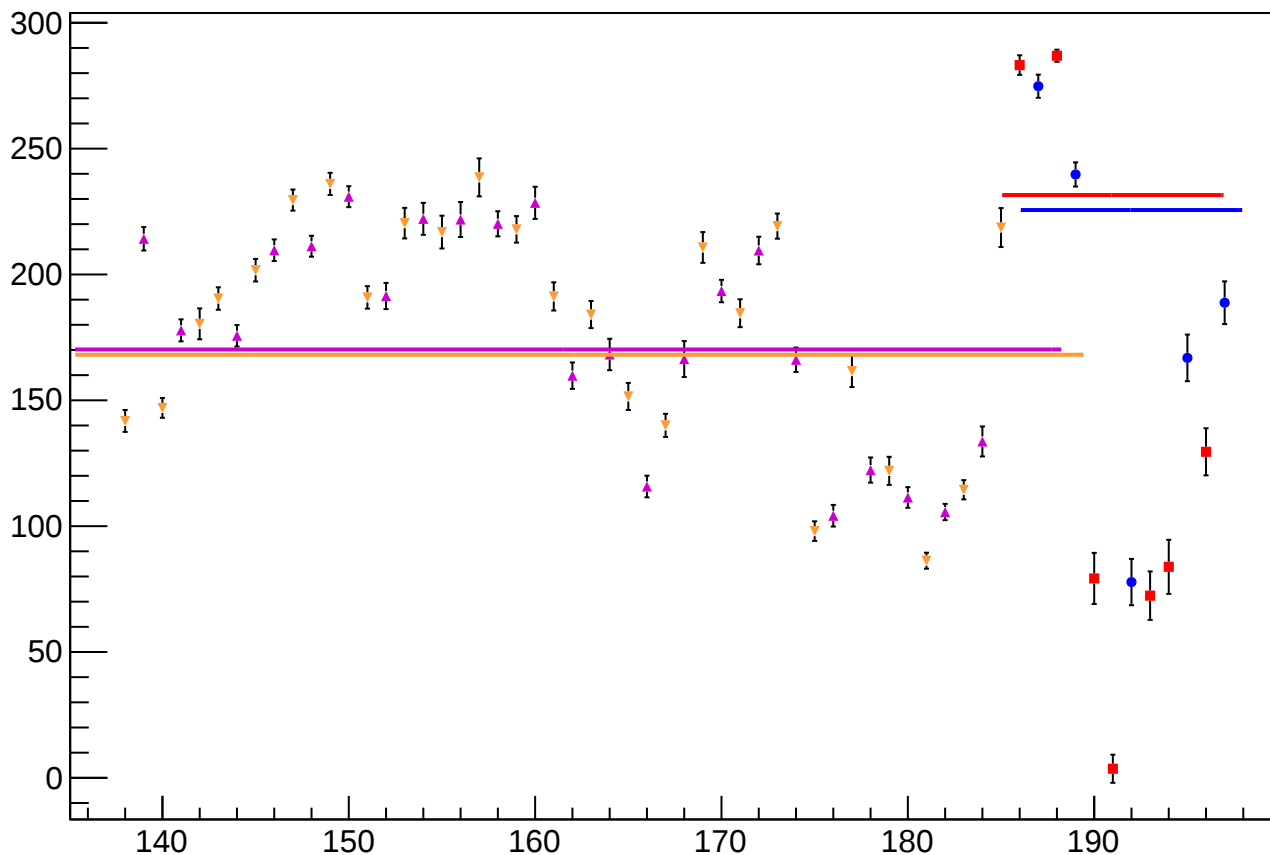
Right: -121.471 ± 0.054 $\chi^2/\text{NDF}: 796799.6/47$

In: -138.650 ± 0.040 $\chi^2/\text{NDF}: 260241.4/44$

Out: -133.623 ± 0.038 $\chi^2/\text{NDF}: 754515.7/50$

All: -136.025 ± 0.027 $\chi^2/\text{NDF}: 1023179.8/95$

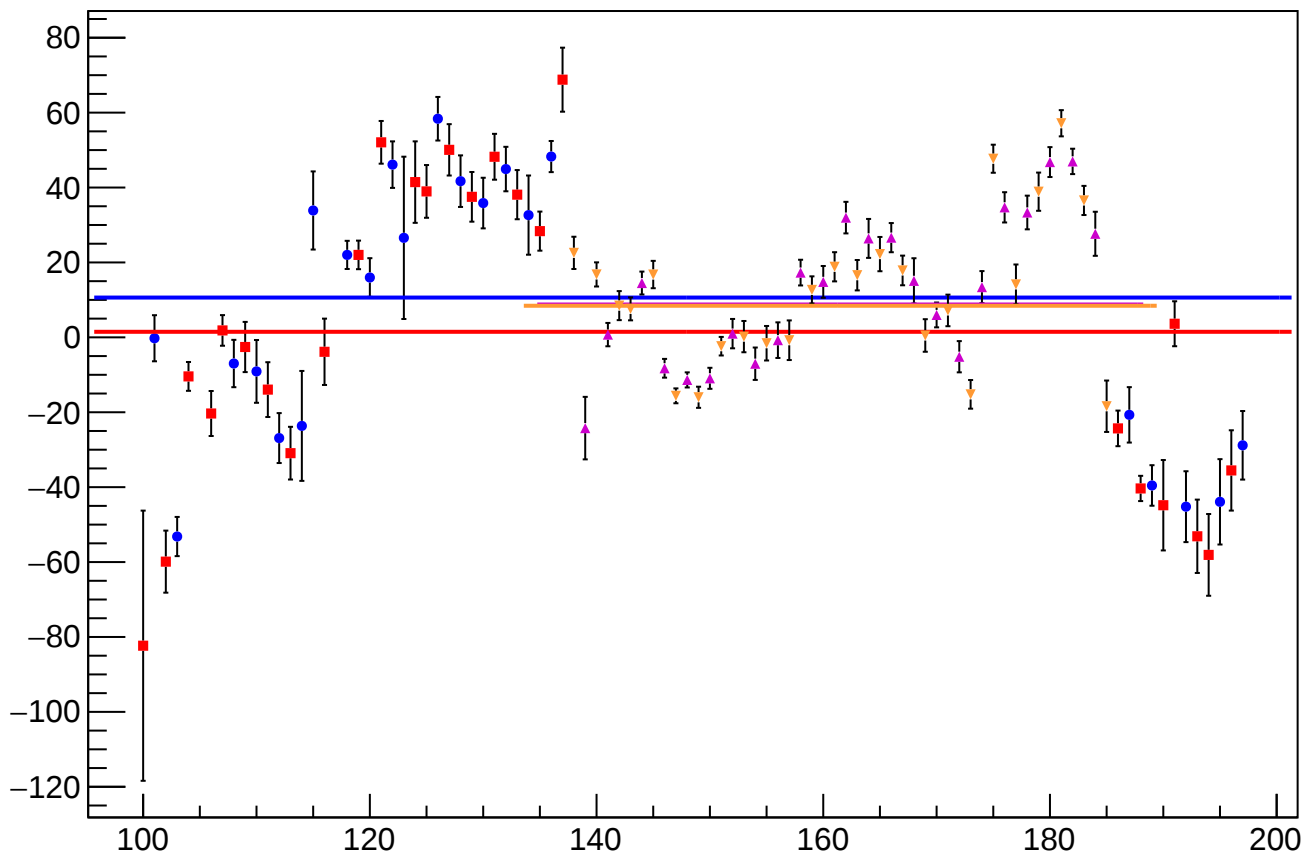
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.605 $\pm$ 2.796 χ^2 /NDF: 439.6/4
 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: 229.827 $\pm$ 1.510 χ^2 /NDF: 3618.6/11
 In: 176.430 $\pm$ 0.938 χ^2 /NDF:2812.6/27
 Out: 182.475 $\pm$ 0.853 χ^2 /NDF:6613.1/31
 All: 179.736 $\pm$ 0.631 χ^2 /NDF: 9448.5/59

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.625 $\pm$ 1.379 χ^2 /NDF: 652.3/21

Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24

Right Out: 1.481 $\pm$ 1.186 χ^2 /NDF: 787.7/25

Left In: 8.769 $\pm$ 0.758 χ^2 /NDF: 626.8/22

Left: 8.596 $\pm$ 0.525 χ^2 /NDF: 1379.0/47

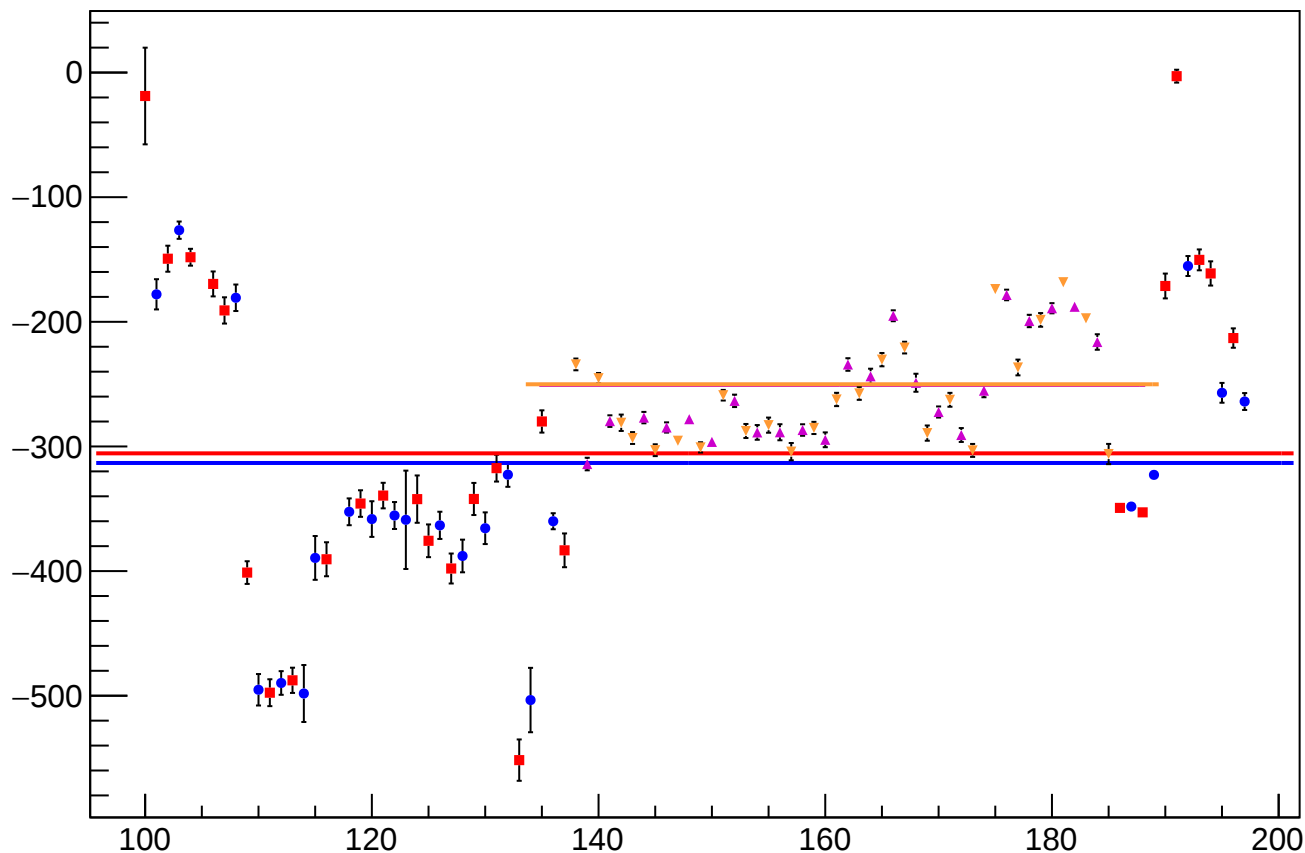
Right: 5.368 $\pm$ 0.899 χ^2 /NDF: 1465.2/47

In: 9.200 $\pm$ 0.664 χ^2 /NDF: 1280.5/44

Out: 6.532 $\pm$ 0.620 χ^2 /NDF: 1564.7/50

All: 7.775 $\pm$ 0.453 χ^2 /NDF: 2853.8/95

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -313.254 ± 1.754 $\chi^2/\text{NDF}: 2444.6/21$

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 $\chi^2/\text{NDF}: 4184.2/47$

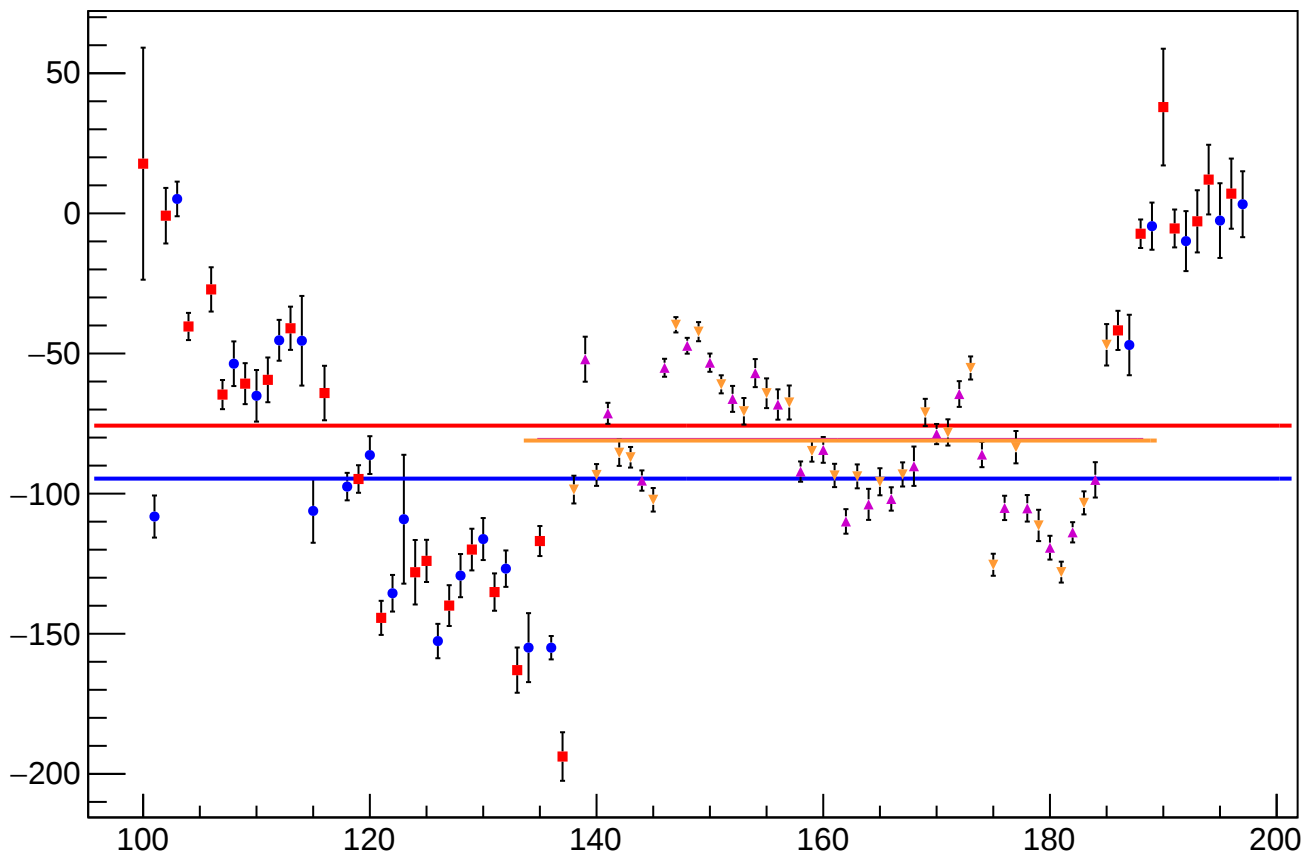
Right: -308.195 ± 1.030 $\chi^2/\text{NDF}: 9868.0/47$

In: -265.766 ± 0.862 $\chi^2/\text{NDF}: 5348.3/44$

Out: -270.527 ± 0.773 $\chi^2/\text{NDF}: 10853.7/50$

All: -268.407 ± 0.576 $\chi^2/\text{NDF}: 16218.9/95$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.641 ± 1.614 χ^2/NDF : 1087.7/21

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -75.734 ± 1.430 χ^2/NDF : 1426.1/25

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

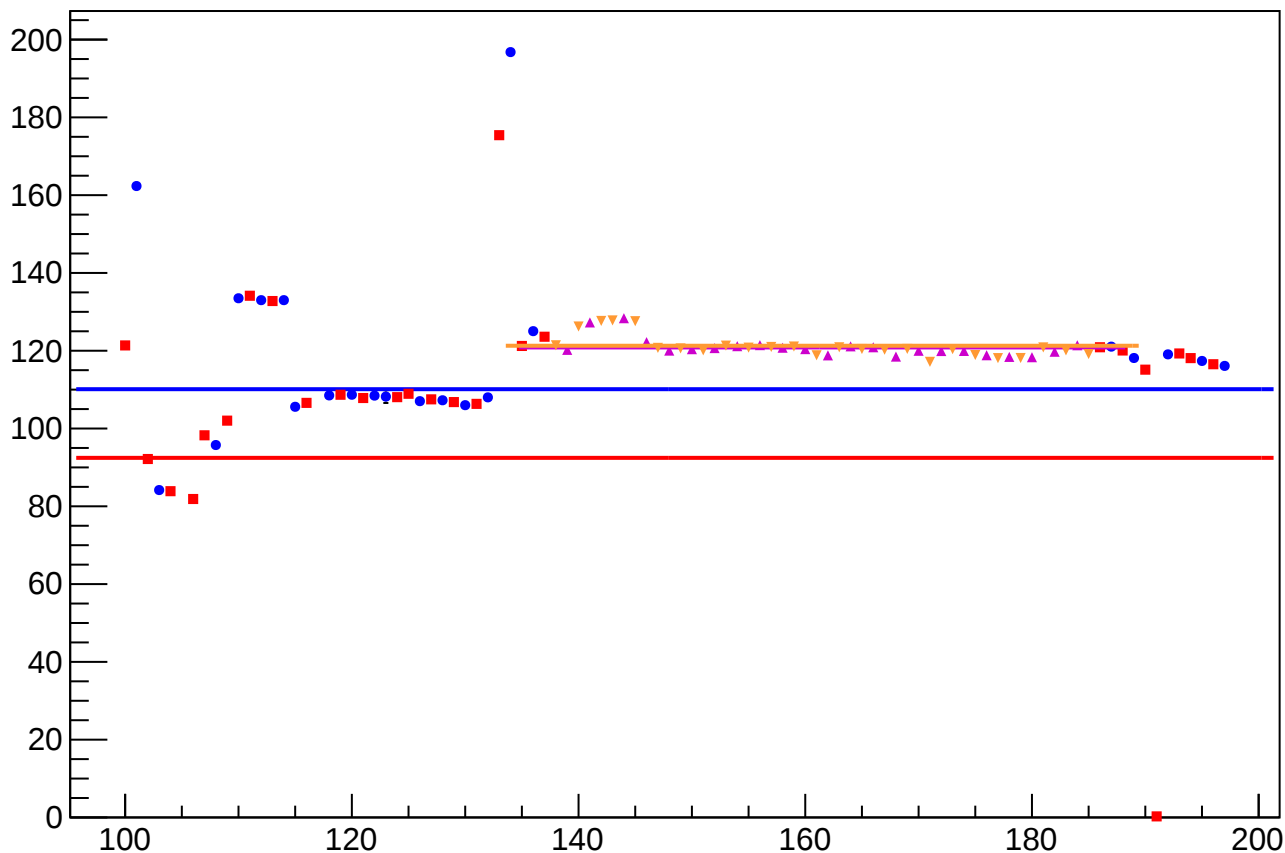
Right: -84.052 ± 1.070 χ^2/NDF : 2590.7/47

In: -83.954 ± 0.767 χ^2/NDF : 1837.5/44

Out: -79.684 ± 0.726 χ^2/NDF : 2349.5/50

All: -81.702 ± 0.527 χ^2/NDF : 4203.3/95

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.112 $\pm$ 0.077 χ^2 /NDF: 75541.5/21

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

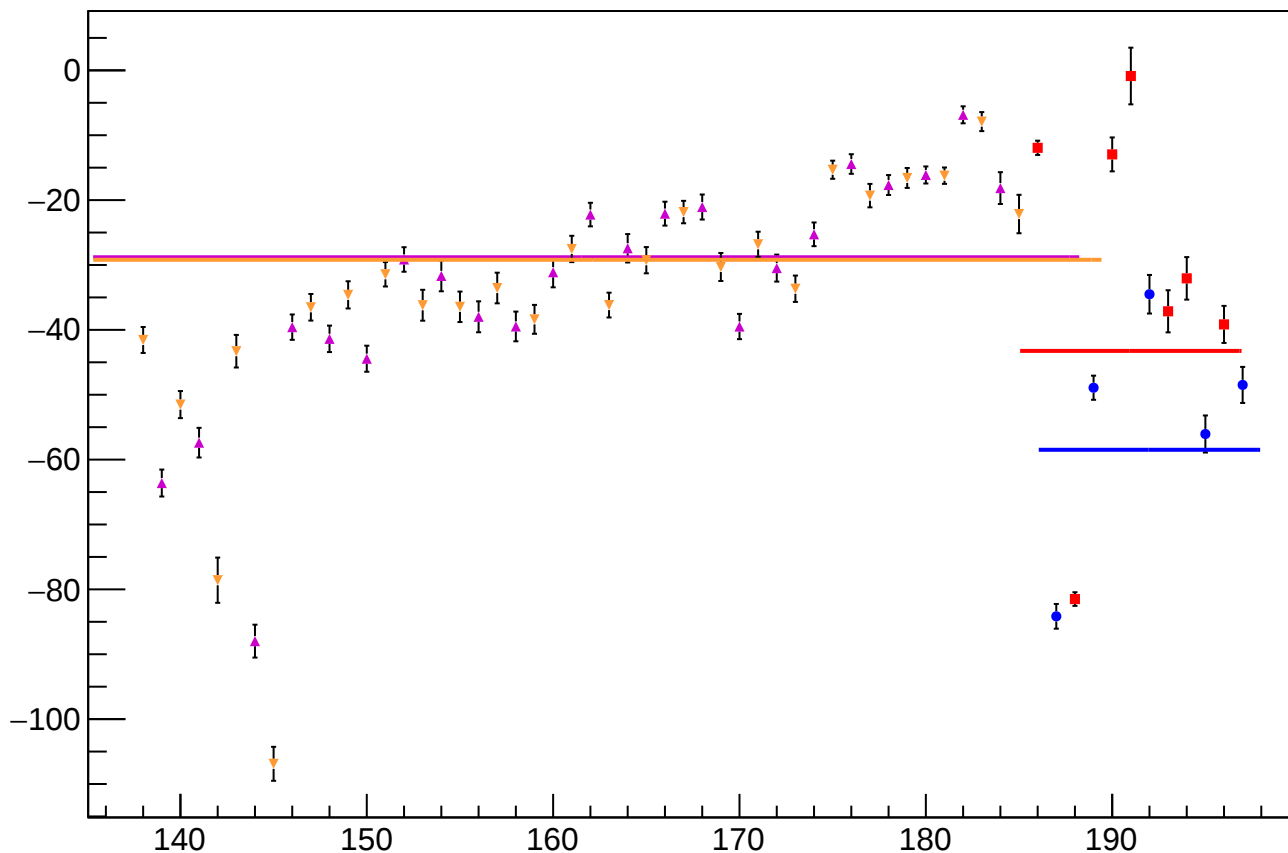
Right: 99.903 $\pm$ 0.050 χ^2 /NDF: 451428.7/47

In: 118.520 $\pm$ 0.036 χ^2 /NDF:93961.2/44

Out: 113.531 $\pm$ 0.034 χ^2 /NDF:489709.6/50

All: 115.903 $\pm$ 0.025 χ^2 /NDF: 593736.1/95

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



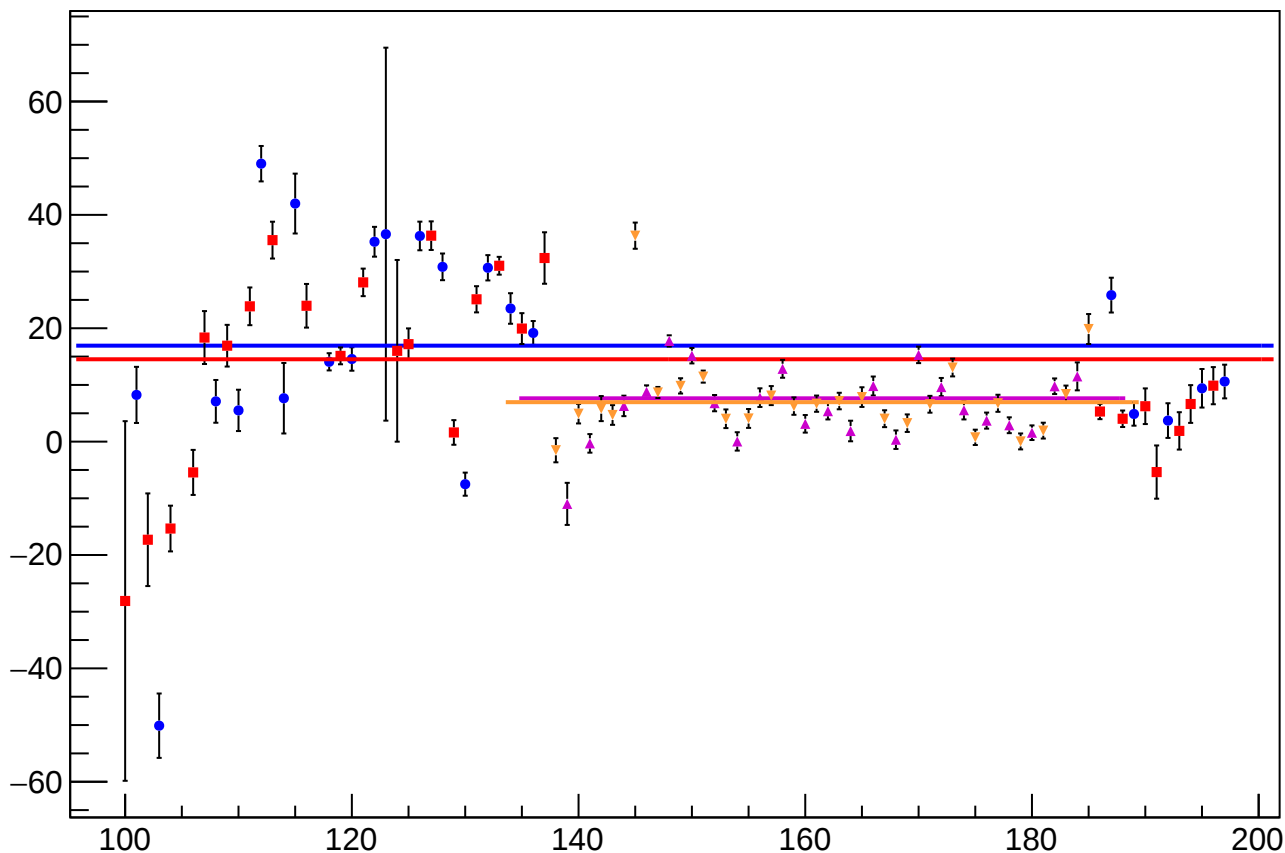
Right In: -58.485 ± 1.037 $\chi^2/\text{NDF}: 286.5/4$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -43.243 ± 0.667 $\chi^2/\text{NDF}: 2387.2/6$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$
 Right: -47.703 ± 0.561 $\chi^2/\text{NDF}: 2826.4/11$

In: -32.574 ± 0.369 $\chi^2/\text{NDF}: 2765.1/27$
 Out: -32.757 ± 0.336 $\chi^2/\text{NDF}: 4599.6/31$

All: -32.674 ± 0.248 $\chi^2/\text{NDF}: 7364.8/59$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.928 ± 0.579 χ^2/NDF : 696.1/21

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

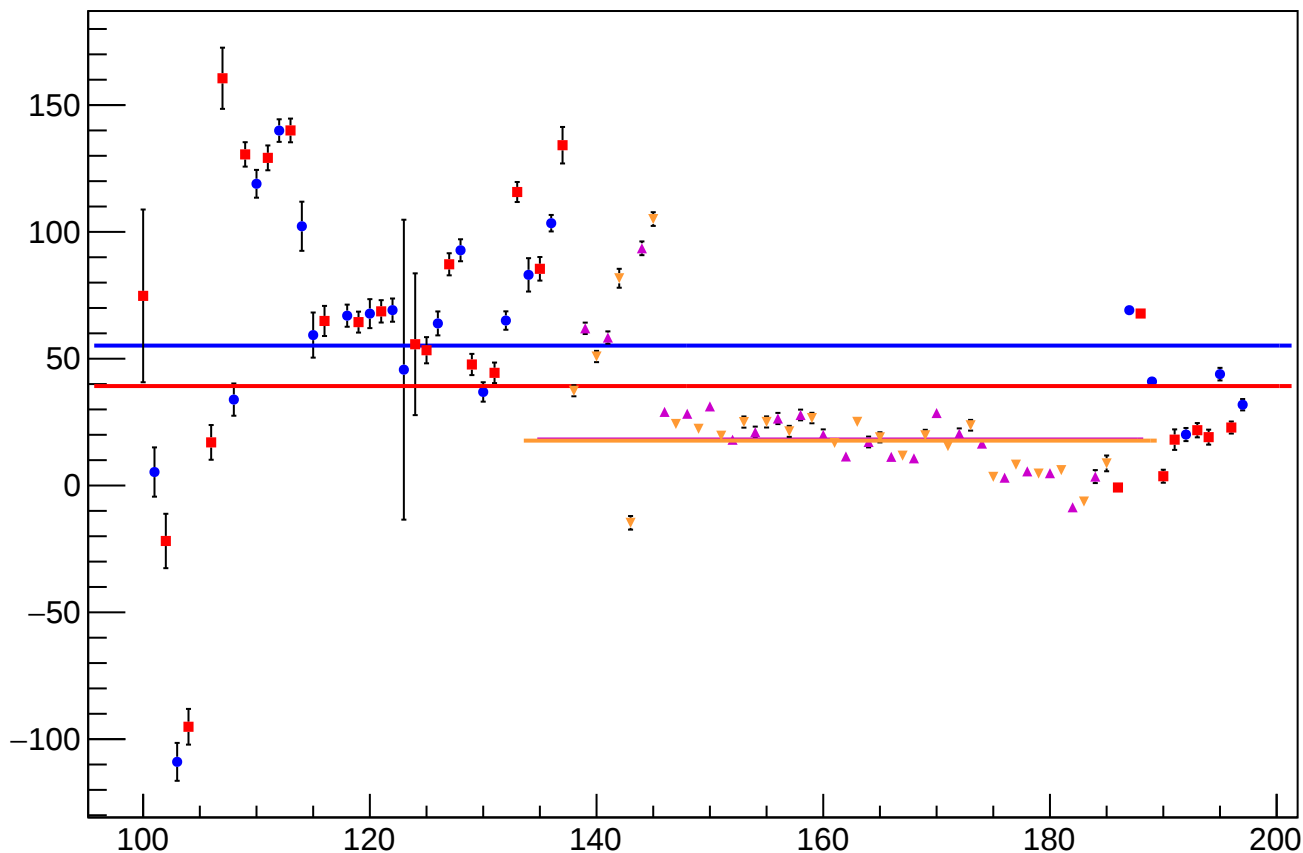
Right: 15.574 ± 0.382 χ^2/NDF : 1298.6/47

In: 9.746 ± 0.276 χ^2/NDF : 1233.1/44

Out: 8.940 ± 0.260 χ^2/NDF : 1077.3/50

All: 9.320 ± 0.189 χ^2/NDF : 2314.9/95

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 55.171 $\pm$ 0.712 χ^2 /NDF: 1884.6/21

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF: 2432.2/24

Right Out: 39.214 $\pm$ 0.500 χ^2 /NDF: 6127.2/25

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF: 2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

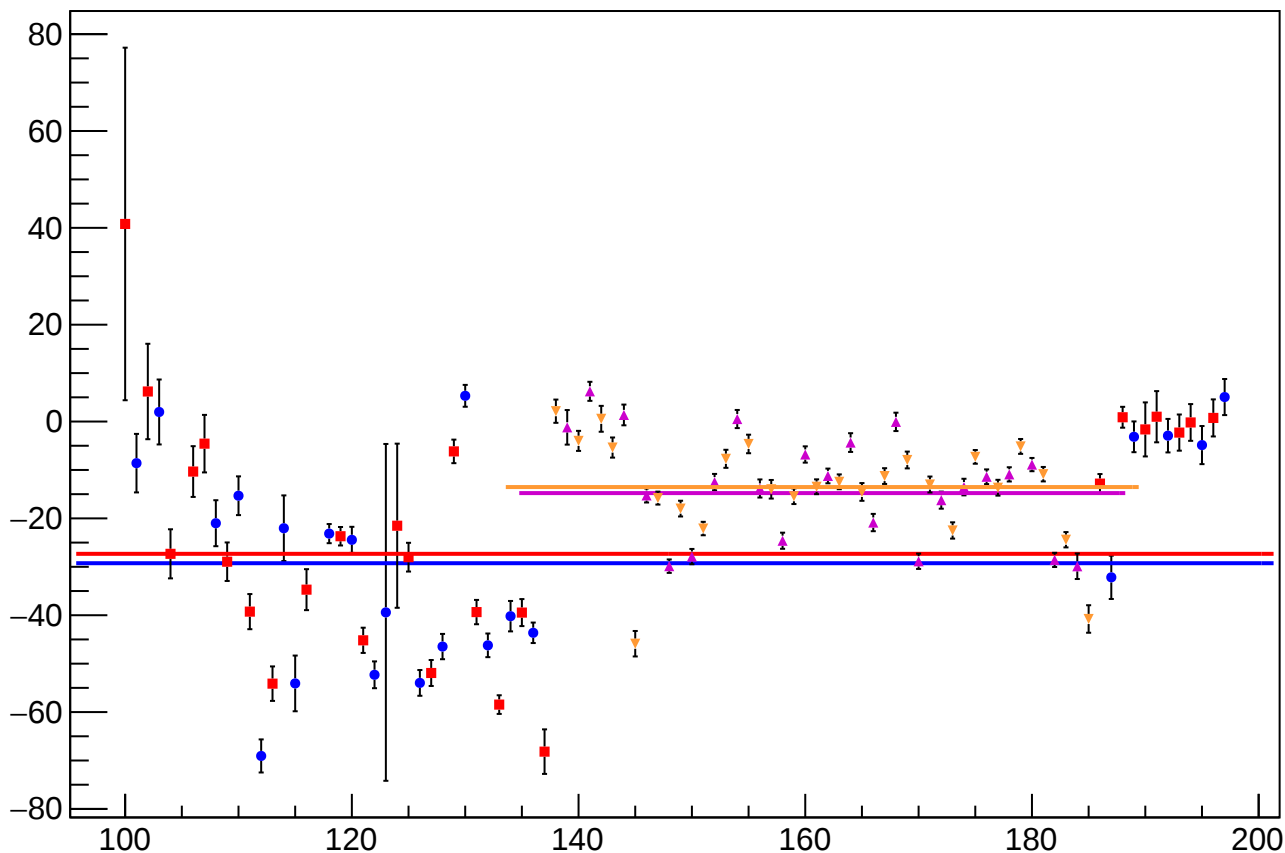
Right: 44.494 $\pm$ 0.409 χ^2 /NDF: 8348.2/47

In: 26.788 $\pm$ 0.344 χ^2 /NDF: 6298.8/44

Out: 25.761 $\pm$ 0.306 χ^2 /NDF: 9715.0/50

All: 26.215 $\pm$ 0.229 χ^2 /NDF: 16018.8/95

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.258 ± 0.680 $\chi^2/\text{NDF}: 1006.1/21$

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 $\chi^2/\text{NDF}: 1417.2/47$

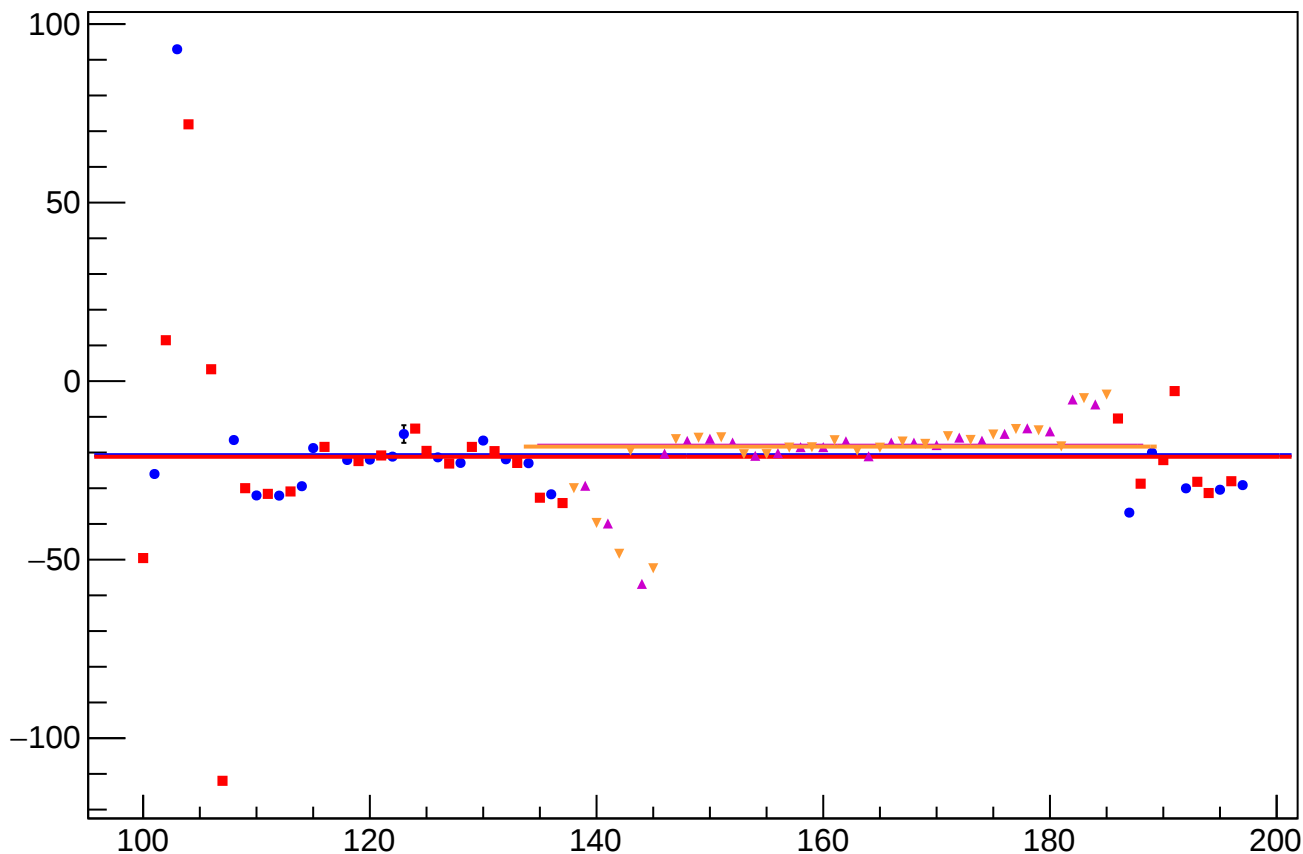
Right: -28.202 ± 0.459 $\chi^2/\text{NDF}: 2138.7/47$

In: -17.870 ± 0.314 $\chi^2/\text{NDF}: 2201.1/44$

Out: -16.764 ± 0.301 $\chi^2/\text{NDF}: 2077.6/50$

All: -17.293 ± 0.217 $\chi^2/\text{NDF}: 4285.2/95$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.735 $\pm$ 0.036 χ^2/NDF : 506161.7/21

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

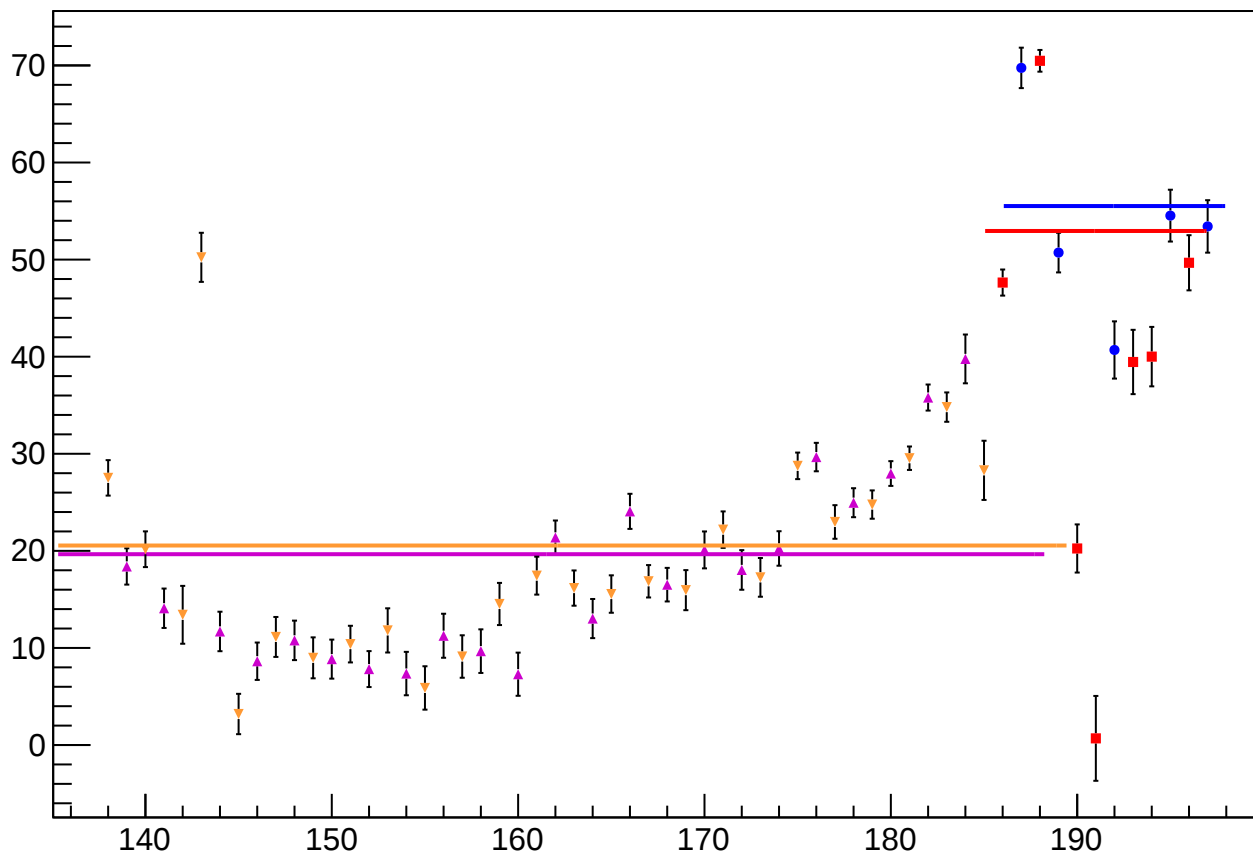
Right: -20.980 $\pm$ 0.024 χ^2/NDF : 984963.2/47

In: -18.530 $\pm$ 0.015 χ^2/NDF : 752683.4/44

Out: -18.873 $\pm$ 0.014 χ^2/NDF : 768993.6/50

All: -18.706 $\pm$ 0.010 χ^2/NDF : 1521959.0/95

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 55.516 $\pm$ 1.076 χ^2/NDF : 78.2/4

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

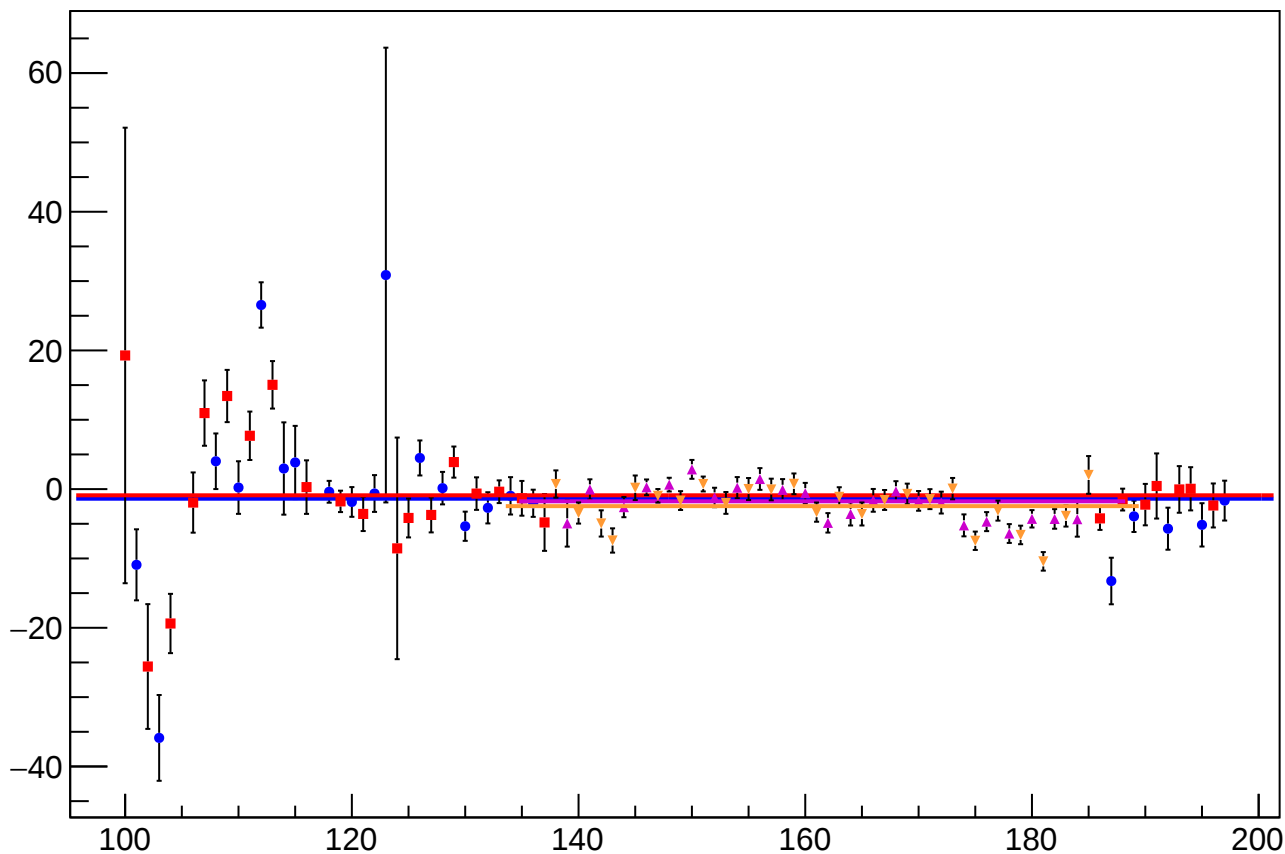
Right: 53.753 $\pm$ 0.603 χ^2/NDF : 696.2/11

In: 23.636 $\pm$ 0.359 χ^2/NDF : 1636.5/27

Out: 27.299 $\pm$ 0.332 χ^2/NDF : 2811.3/31

All: 25.609 $\pm$ 0.244 χ^2/NDF : 4504.0/59

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.384 ± 0.588 χ^2/NDF : 139.5/21

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

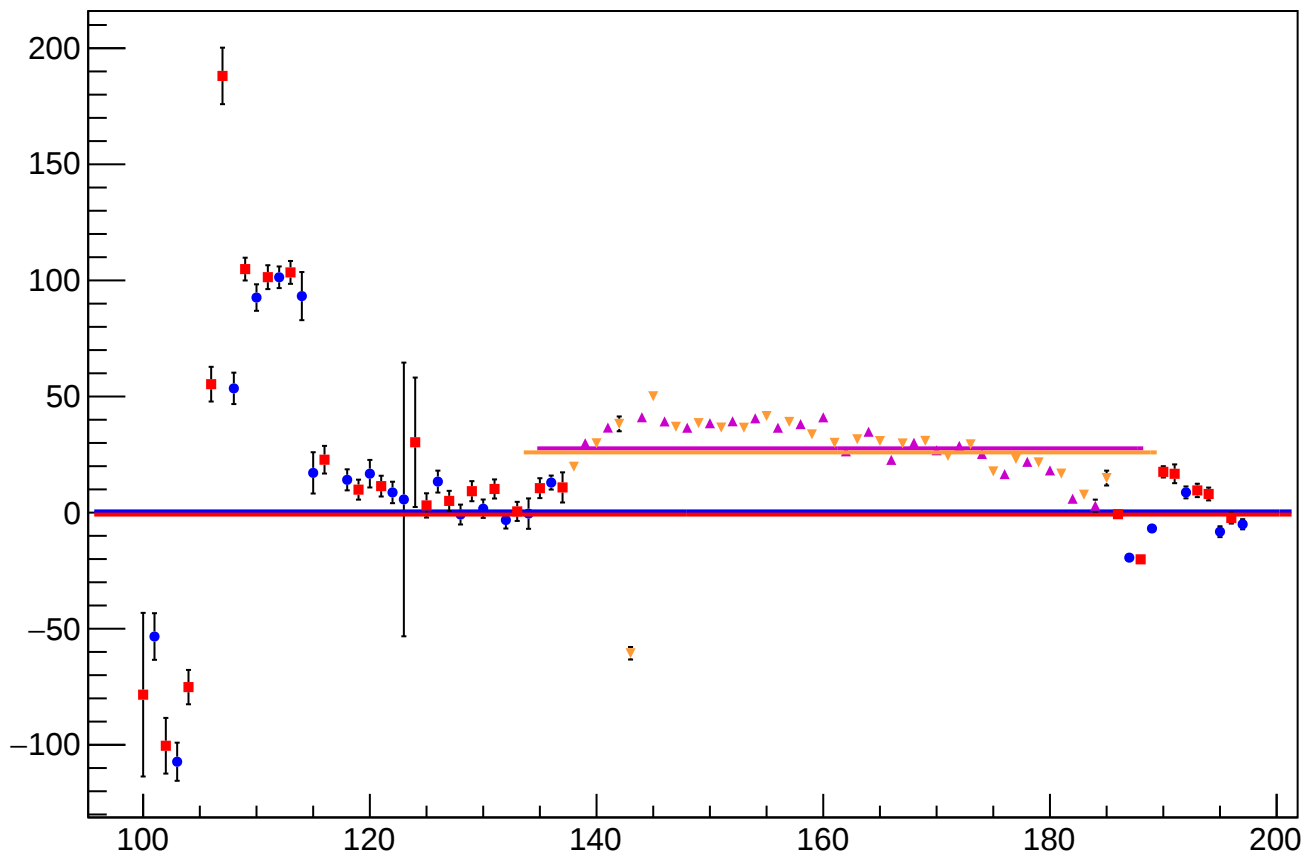
Right: -1.114 ± 0.395 χ^2/NDF : 229.9/47

In: -1.680 ± 0.269 χ^2/NDF : 207.2/44

Out: -2.093 ± 0.256 χ^2/NDF : 202.6/50

All: -1.896 ± 0.185 χ^2/NDF : 411.1/95

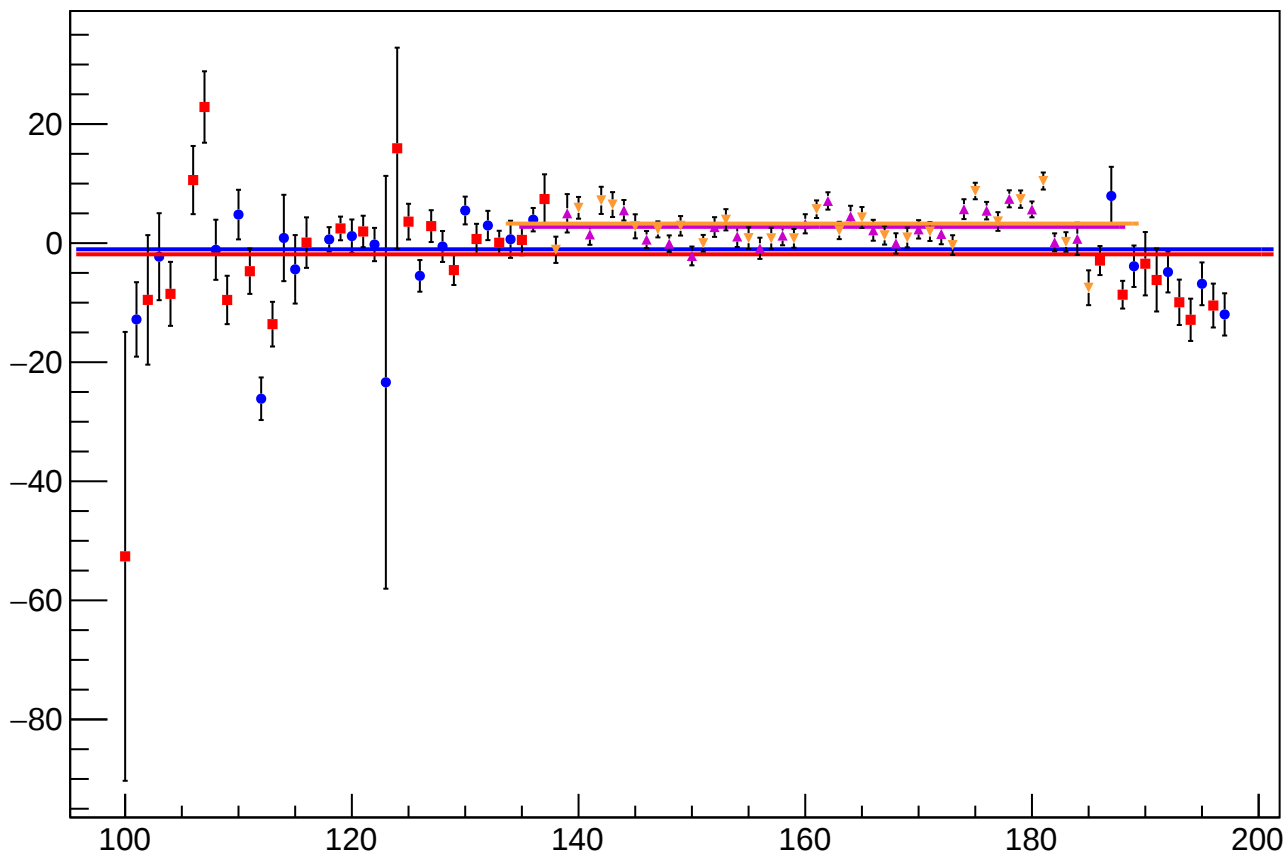
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.518 ± 0.734 $\chi^2/\text{NDF}: 1303.1/21$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -0.833 ± 0.543 $\chi^2/\text{NDF}: 2393.4/25$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: -0.356 ± 0.436 $\chi^2/\text{NDF}: 3698.7/47$
 In: 21.983 ± 0.336 $\chi^2/\text{NDF}: 3188.1/44$
 Out: 17.372 ± 0.307 $\chi^2/\text{NDF}: 5759.2/50$
 All: 19.468 ± 0.227 $\chi^2/\text{NDF}: 9049.8/95$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.035 ± 0.685 χ^2/NDF : 94.3/21

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

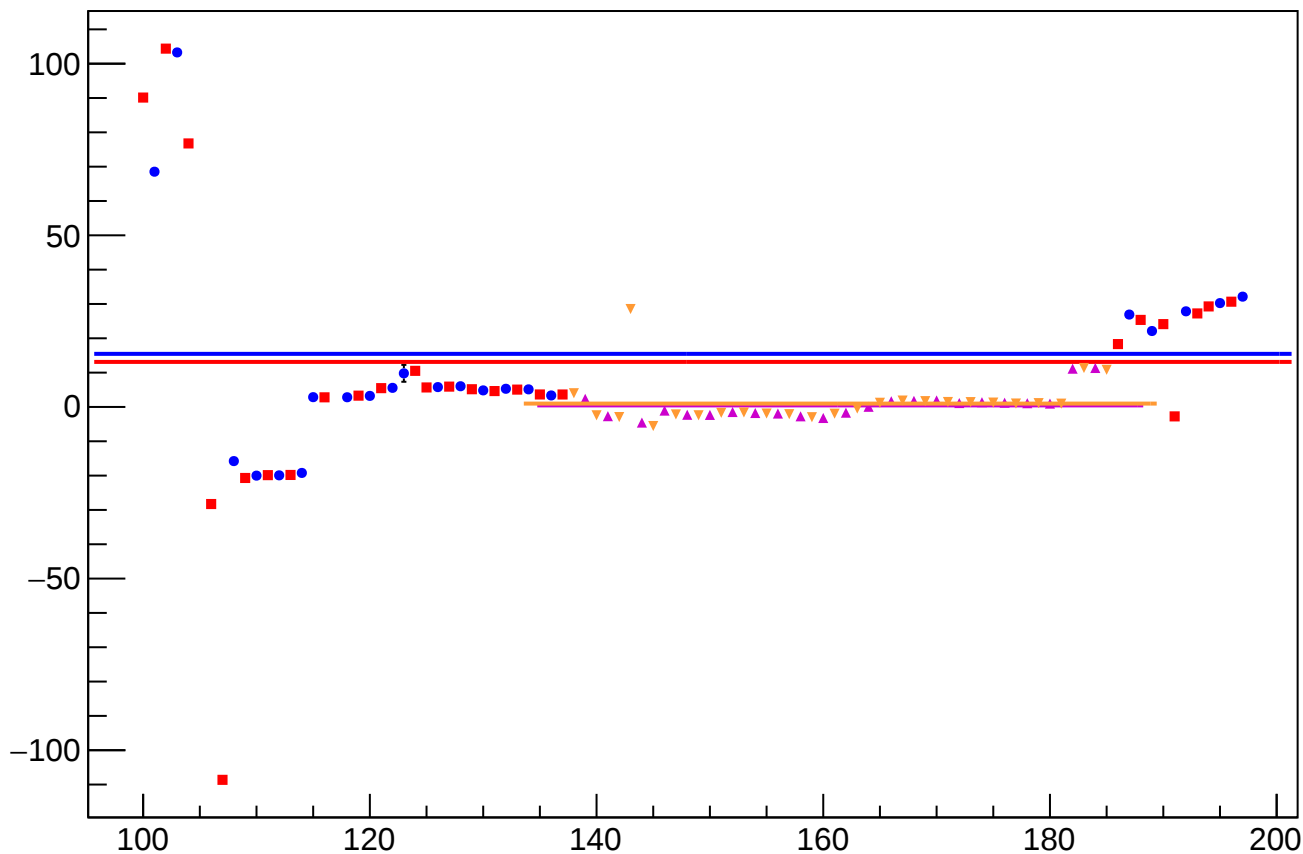
Right: -1.484 ± 0.469 χ^2/NDF : 187.2/47

In: 1.988 ± 0.305 χ^2/NDF : 183.1/44

Out: 2.198 ± 0.295 χ^2/NDF : 245.4/50

All: 2.097 ± 0.212 χ^2/NDF : 428.7/95

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 15.469+/-0.035 χ^2/NDF : 443421.6/21

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

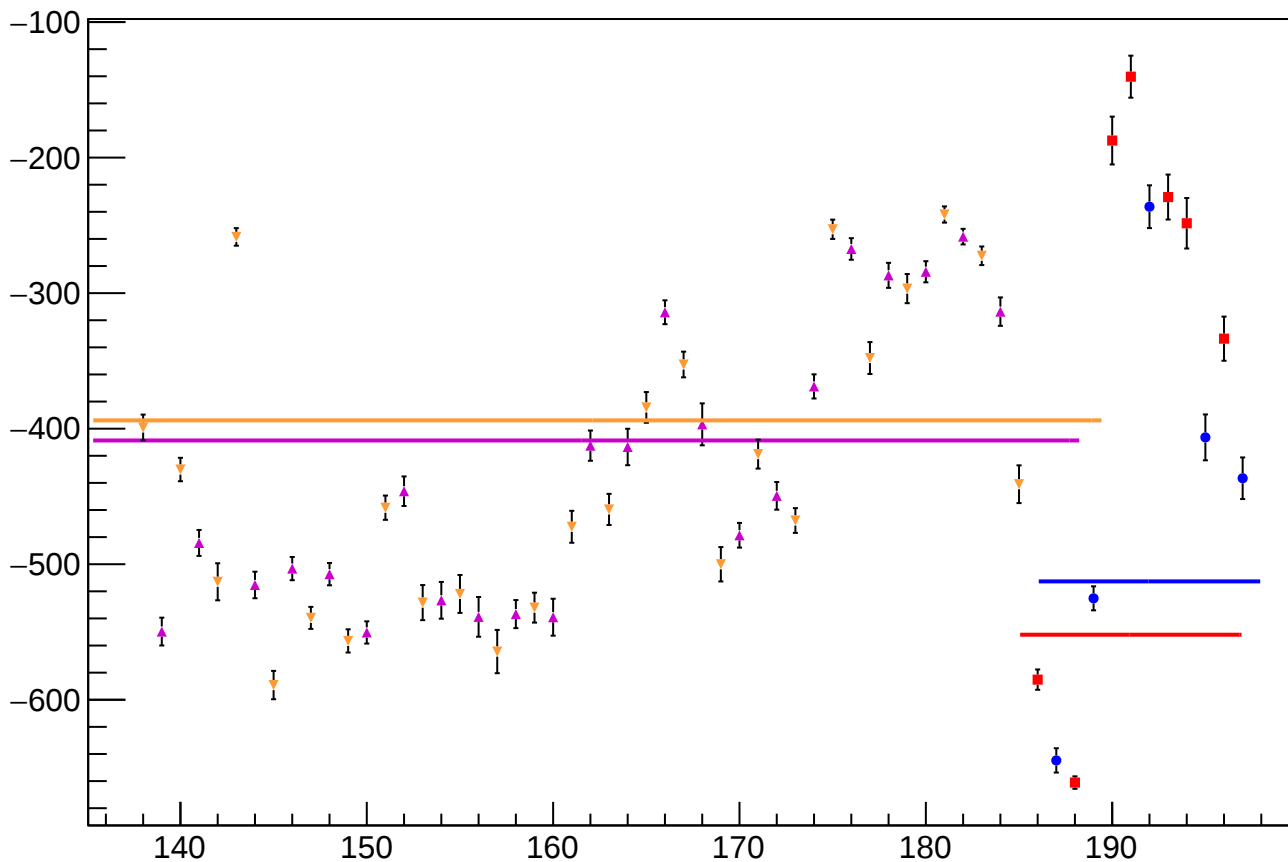
Right: 14.219+/-0.024 χ^2/NDF : 1091576.5/47

In: 2.859+/-0.014 χ^2/NDF : 645965.8/44

Out: 3.094+/-0.014 χ^2/NDF : 874464.1/50

All: 2.979+/-0.010 χ^2/NDF : 1520571.1/95

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -512.669 ± 5.204 χ^2/NDF : 589.5/4

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

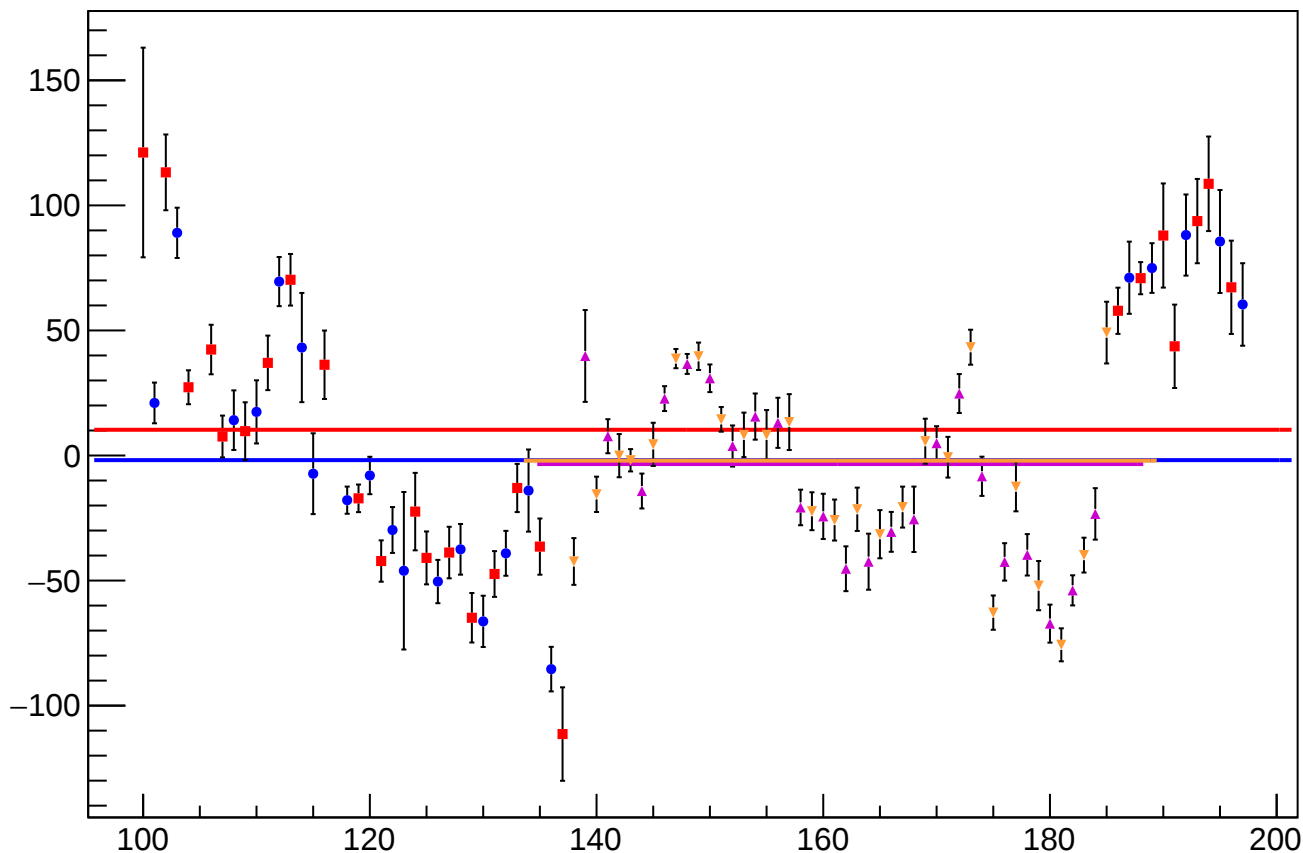
Right: -539.882 ± 2.890 χ^2/NDF : 3169.8/11

In: -421.831 ± 1.850 χ^2/NDF : 4001.1/27

Out: -430.189 ± 1.665 χ^2/NDF : 7909.4/31

All: -426.448 ± 1.238 χ^2/NDF : 11921.8/59

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.852 ± 2.207 $\chi^2/\text{NDF}: 509.2/21$

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 $\chi^2/\text{NDF}: 1015.2/47$

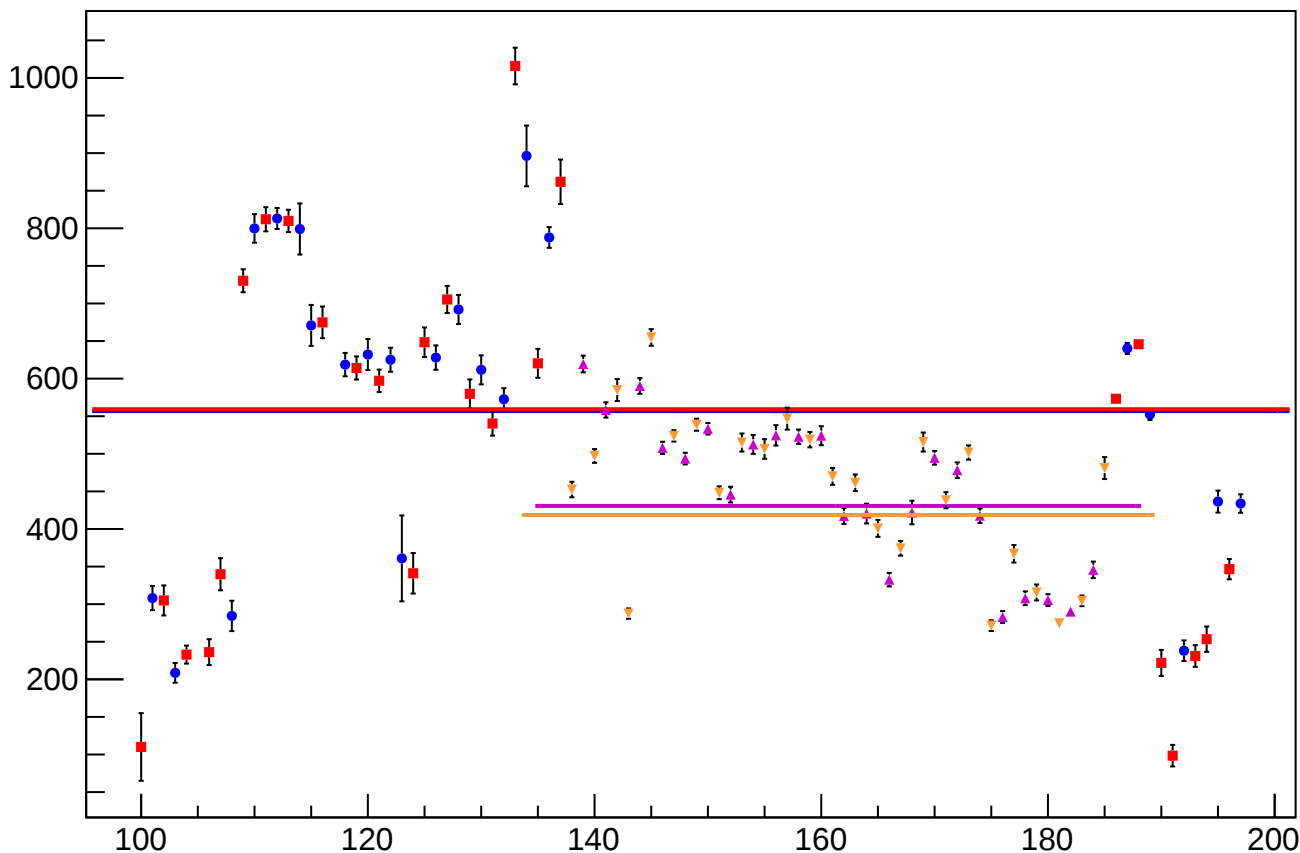
Right: 4.773 ± 1.487 $\chi^2/\text{NDF}: 1112.1/47$

In: -2.915 ± 1.252 $\chi^2/\text{NDF}: 960.5/44$

Out: 2.073 ± 1.163 $\chi^2/\text{NDF}: 1175.2/50$

All: -0.237 ± 0.852 $\chi^2/\text{NDF}: 2144.2/95$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 556.869 $\pm$ 3.073 χ^2 /NDF: 3012.6/21

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

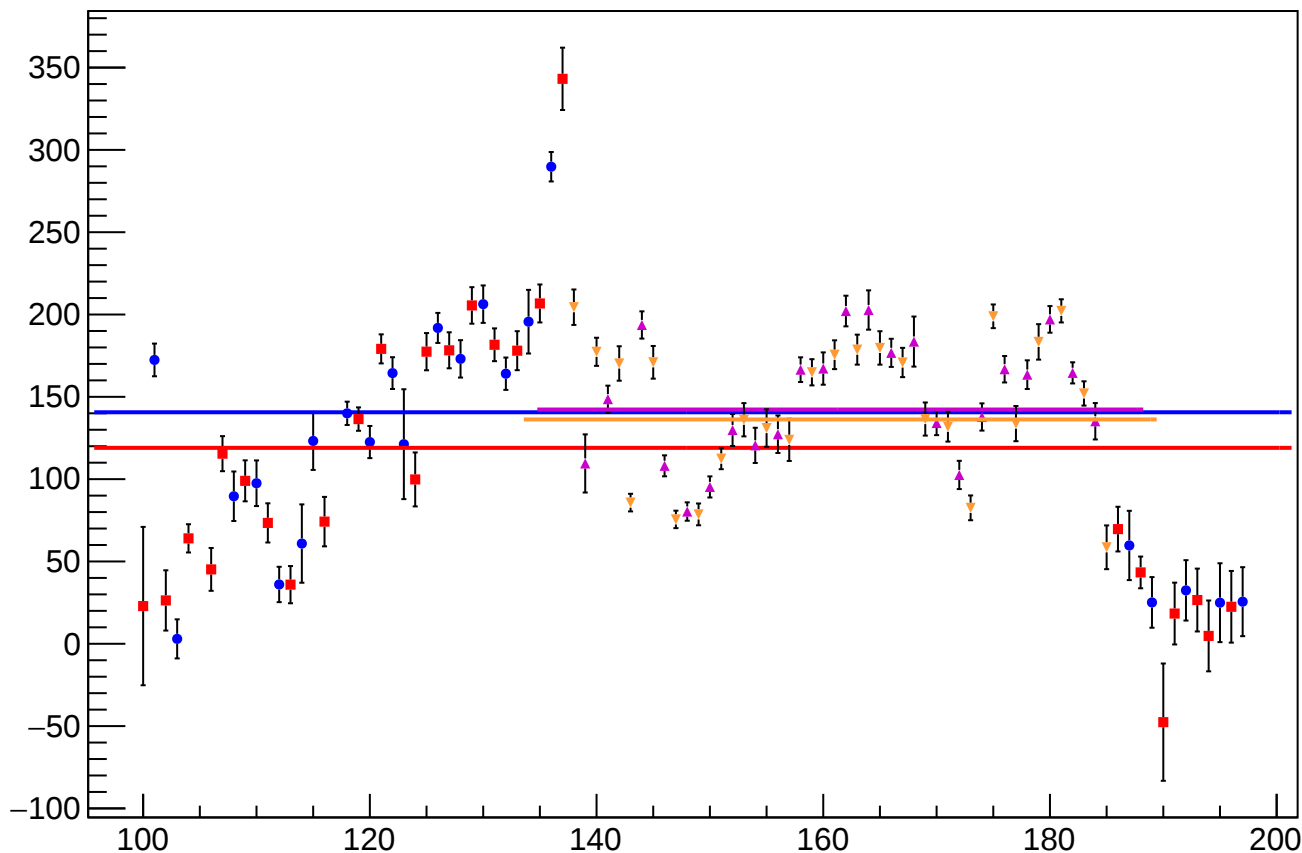
Right: 558.421 $\pm$ 1.865 χ^2 /NDF: 8857.7/47

In: 467.431 $\pm$ 1.659 χ^2 /NDF:7058.9/44

Out: 474.541 $\pm$ 1.479 χ^2 /NDF:11306.4/50

All: 471.393 $\pm$ 1.104 χ^2 /NDF: 18375.6/95

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 140.623+/-2.590 χ^2/NDF : 807.3/21

Left Out: 136.258+/-1.651 χ^2/NDF : 758.3/24

Right Out: 119.020+/-2.407 χ^2/NDF : 813.1/25

Left In: 142.296+/-1.745 χ^2/NDF : 459.8/22

Left: 139.111+/-1.199 χ^2/NDF : 1224.4/47

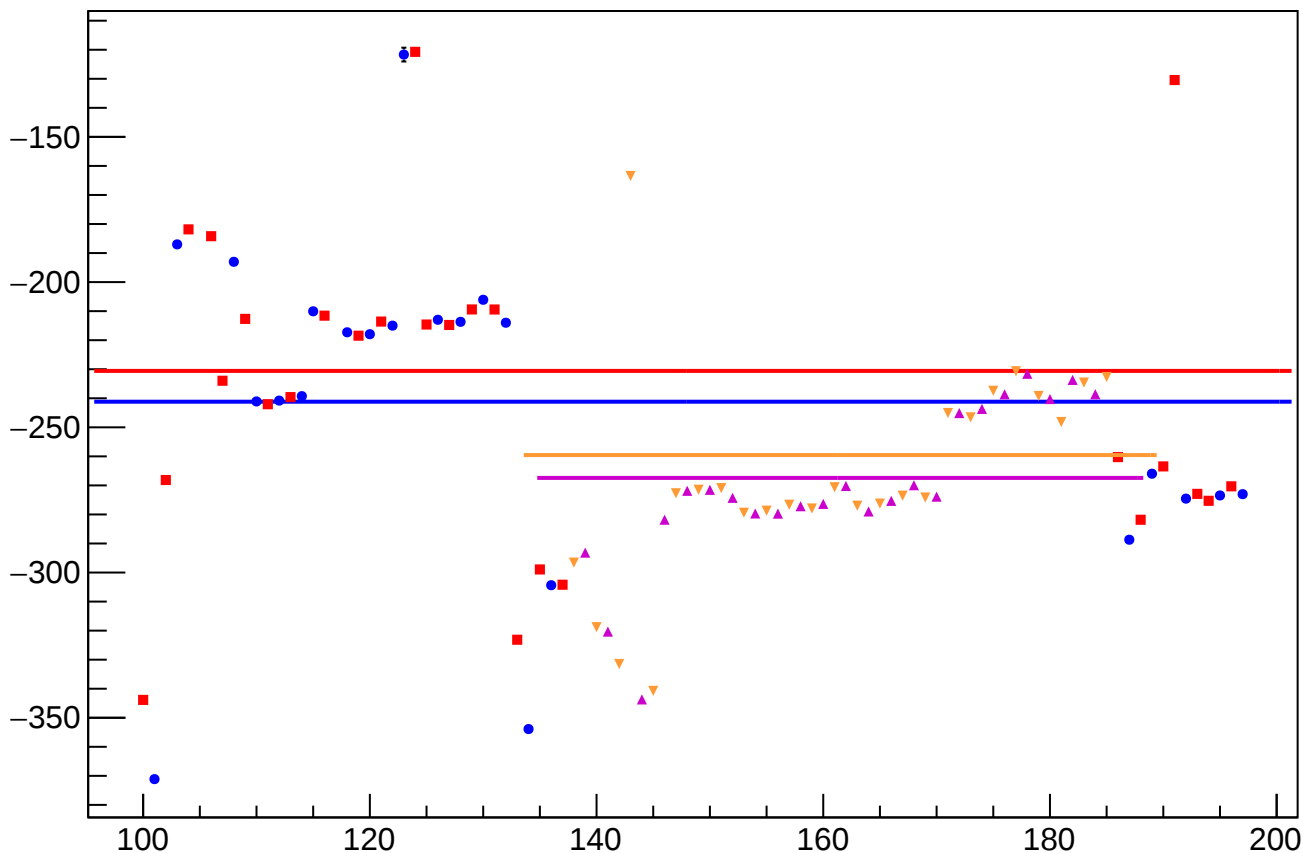
Right: 129.035+/-1.763 χ^2/NDF : 1657.7/47

In: 141.774+/-1.447 χ^2/NDF : 1267.3/44

Out: 130.744+/-1.362 χ^2/NDF : 1606.3/50

All: 135.924+/-0.992 χ^2/NDF : 2904.4/95

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -241.179 ± 0.136 $\chi^2/\text{NDF}: 156891.3/21$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -230.575 ± 0.122 $\chi^2/\text{NDF}: 163200.5/25$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

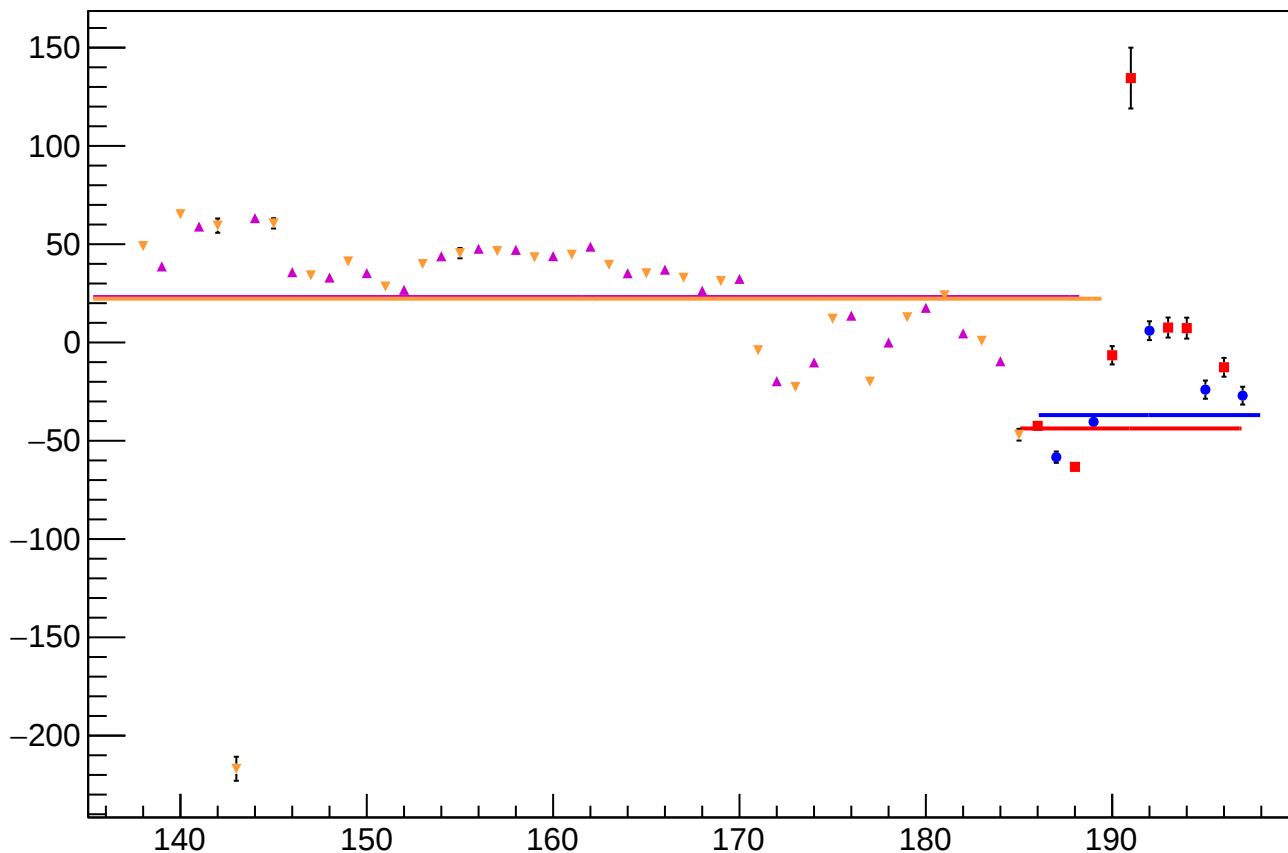
Right: -235.318 ± 0.091 $\chi^2/\text{NDF}: 323459.4/47$

In: -260.451 ± 0.070 $\chi^2/\text{NDF}: 282327.6/44$

Out: -251.002 ± 0.066 $\chi^2/\text{NDF}: 441074.9/50$

All: -255.477 ± 0.048 $\chi^2/\text{NDF}: 732996.2/95$

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.937 ± 1.637 $\chi^2/\text{NDF}: 149.2/4$

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 $\chi^2/\text{NDF}: 7918.0/47$

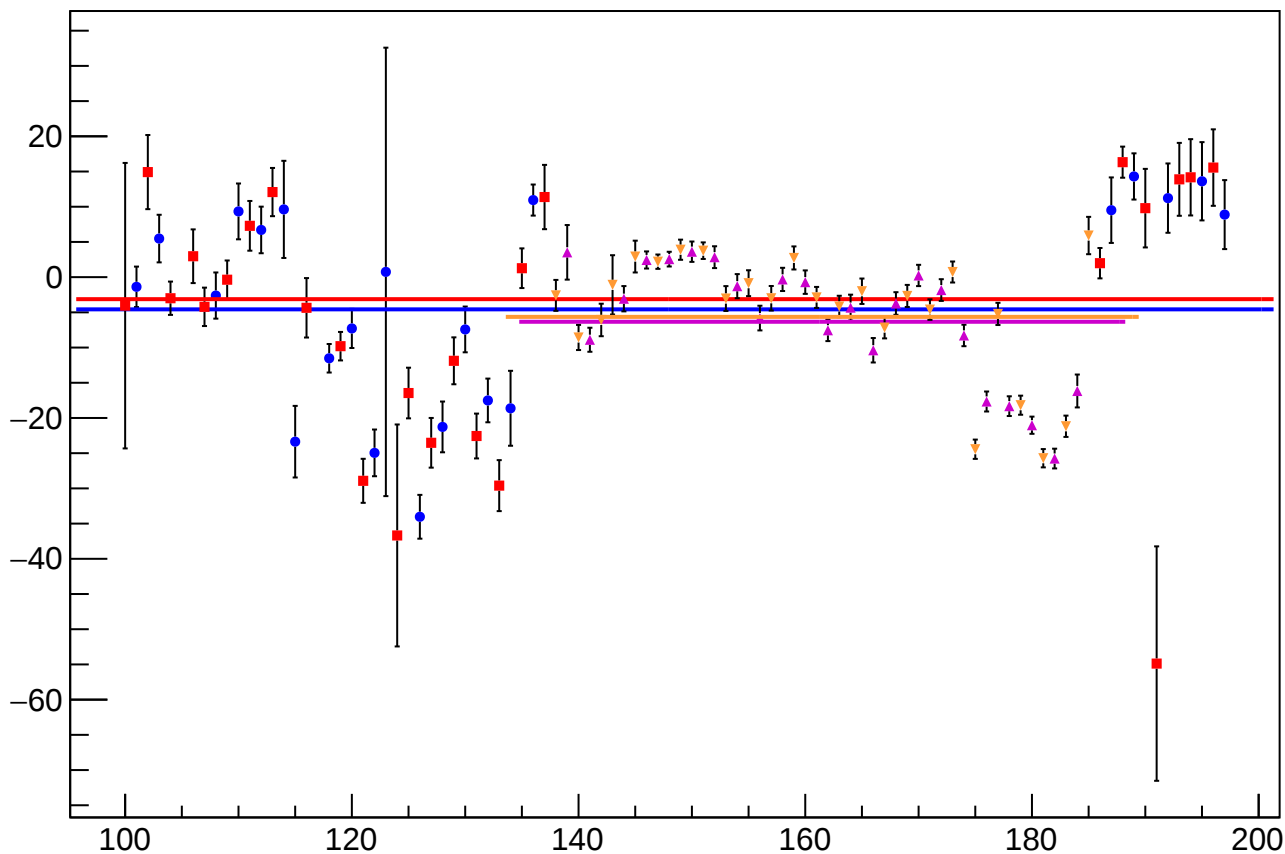
Right: -41.755 ± 0.884 $\chi^2/\text{NDF}: 750.9/11$

In: 19.728 ± 0.390 $\chi^2/\text{NDF}: 4164.2/27$

Out: 13.963 ± 0.373 $\chi^2/\text{NDF}: 9213.0/31$

All: 16.717 ± 0.269 $\chi^2/\text{NDF}: 13491.4/59$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.575 ± 0.734 χ^2/NDF : 359.3/21

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: -3.776 ± 0.491 χ^2/NDF : 777.4/47

In: -6.054 ± 0.294 χ^2/NDF : 1147.1/44

Out: -5.176 ± 0.285 χ^2/NDF : 1321.5/50

All: -5.601 ± 0.205 χ^2/NDF : 2473.2/95

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 122.087 $\pm$ 0.986 χ^2 /NDF: 2366.1/21

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

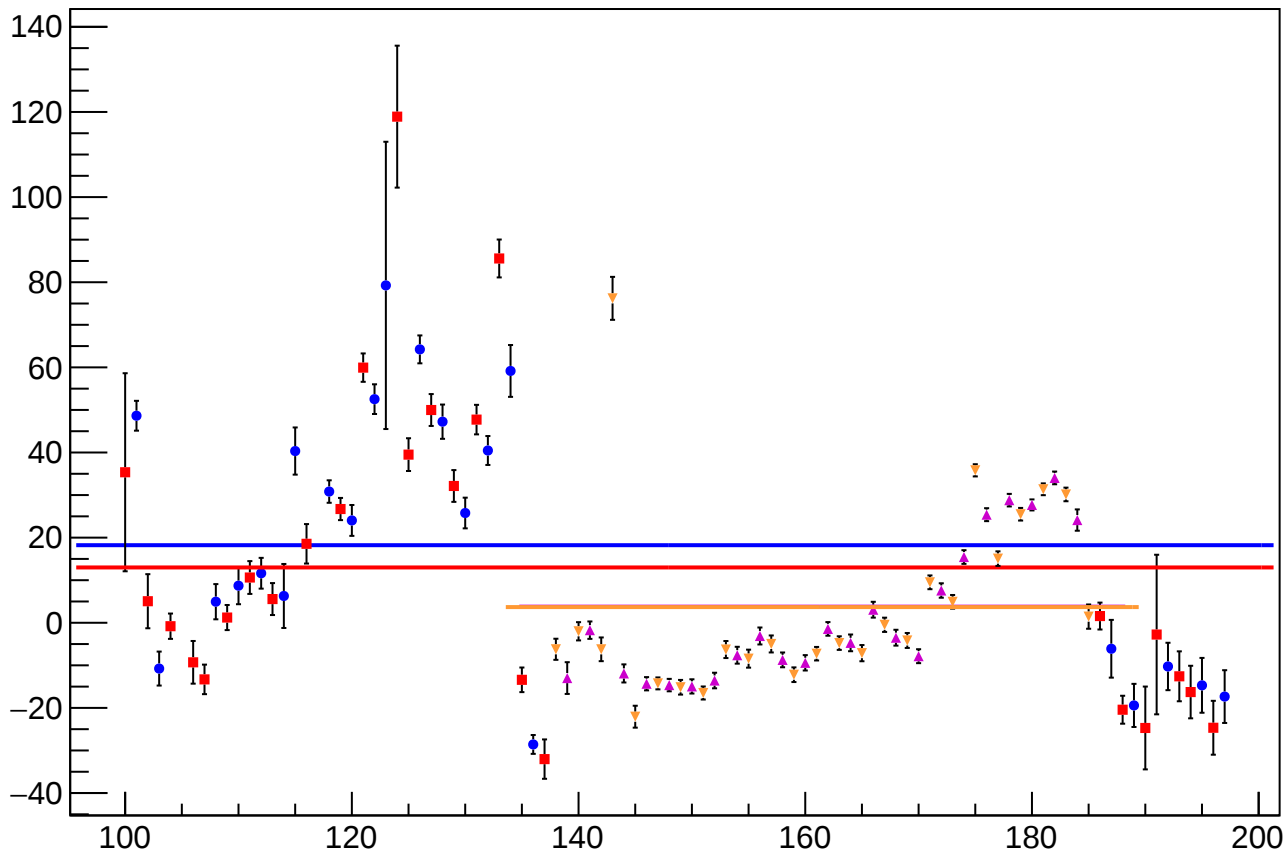
Right: 124.761 $\pm$ 0.585 χ^2 /NDF: 5315.8/47

In: 66.301 $\pm$ 0.370 χ^2 /NDF:7896.9/44

Out: 73.707 $\pm$ 0.349 χ^2 /NDF:14345.6/50

All: 70.222 $\pm$ 0.254 χ^2 /NDF: 22454.3/95

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.224 $\pm$ 0.852 χ^2 /NDF: 1232.0/21

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

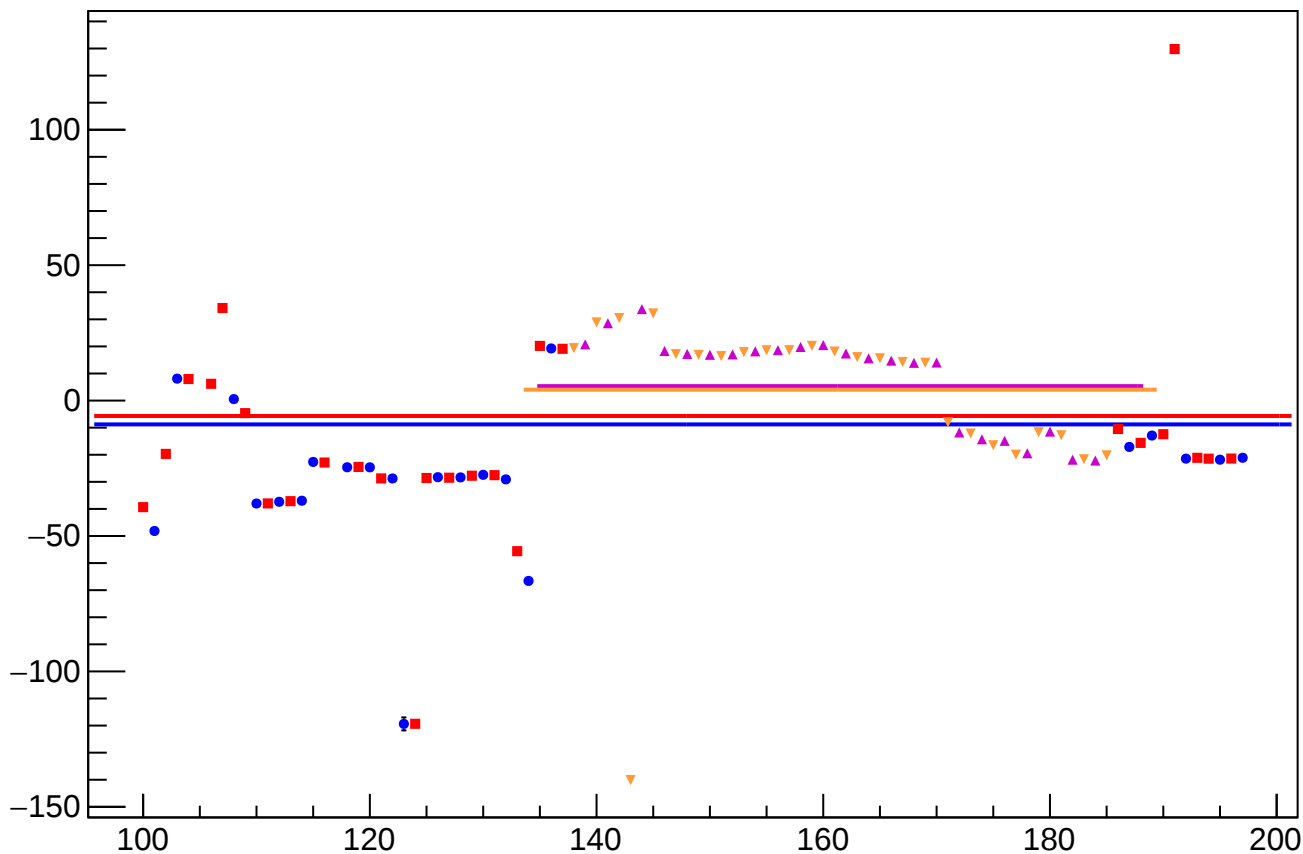
Right: 15.413 $\pm$ 0.580 χ^2 /NDF: 2566.5/47

In: 5.990 $\pm$ 0.333 χ^2 /NDF:3674.0/44

Out: 5.259 $\pm$ 0.325 χ^2 /NDF:3971.1/50

All: 5.616 $\pm$ 0.233 χ^2 /NDF: 7647.6/95

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.791 ± 0.042 χ^2/NDF : 280718.0/21

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

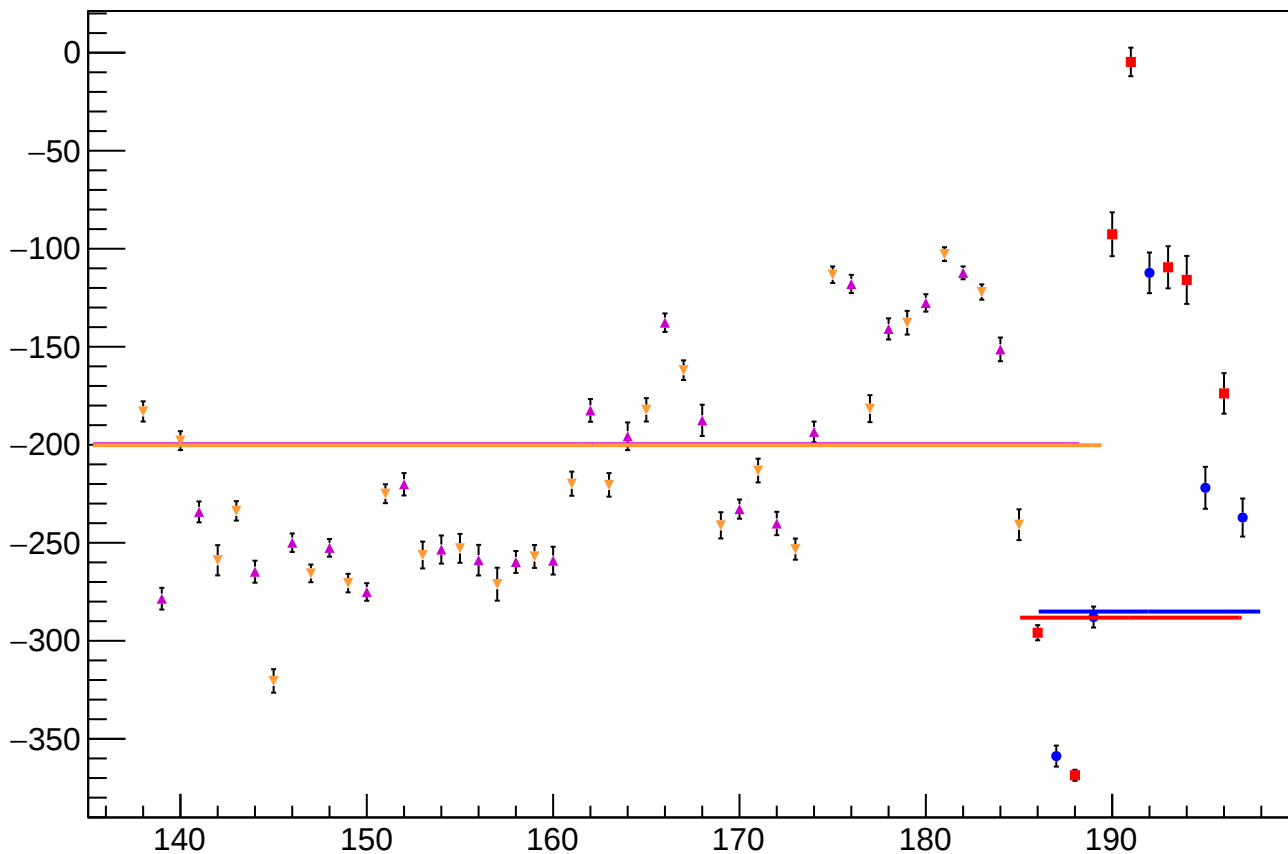
Right: -7.155 ± 0.029 χ^2/NDF : 647837.9/47

In: 3.448 ± 0.015 χ^2/NDF : 1457373.0/44

Out: 2.615 ± 0.015 χ^2/NDF : 1798509.2/50

All: 3.027 ± 0.011 χ^2/NDF : 3257382.9/95

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -285.074+/-3.187 χ^2/NDF : 526.6/4

Left Out: -200.228+/-1.078 χ^2/NDF : 3225.0/24

Right Out: -288.195+/-2.019 χ^2/NDF : 3241.3/6

Left In: -199.739+/-1.097 χ^2/NDF : 2968.0/22

Left: -199.988+/-0.769 χ^2/NDF : 6193.2/47

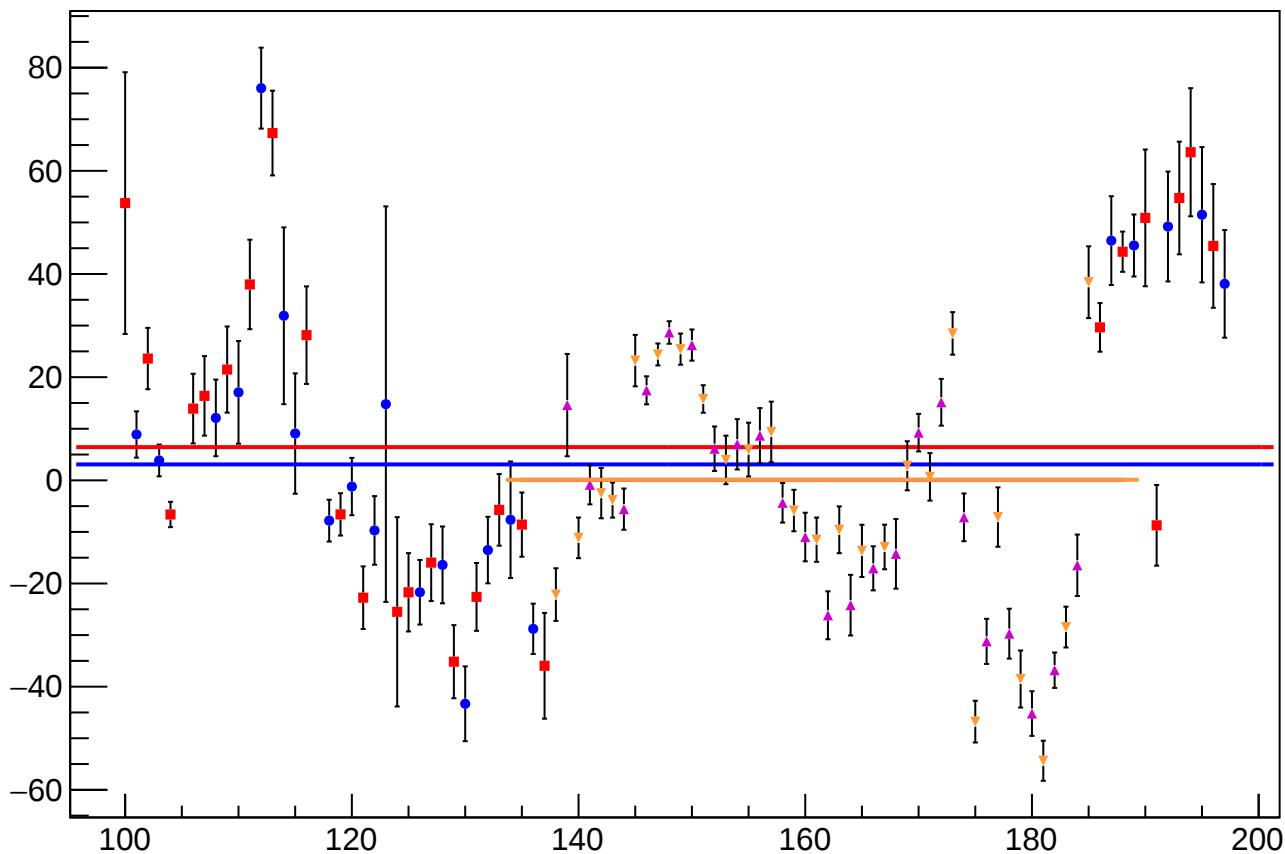
Right: -287.301+/-1.706 χ^2/NDF : 3768.6/11

In: -208.787+/-1.038 χ^2/NDF : 4135.7/27

Out: -219.737+/-0.951 χ^2/NDF : 7943.5/31

All: -214.738+/-0.701 χ^2/NDF : 12139.8/59

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.087 ± 1.376 χ^2/NDF : 338.8/21

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

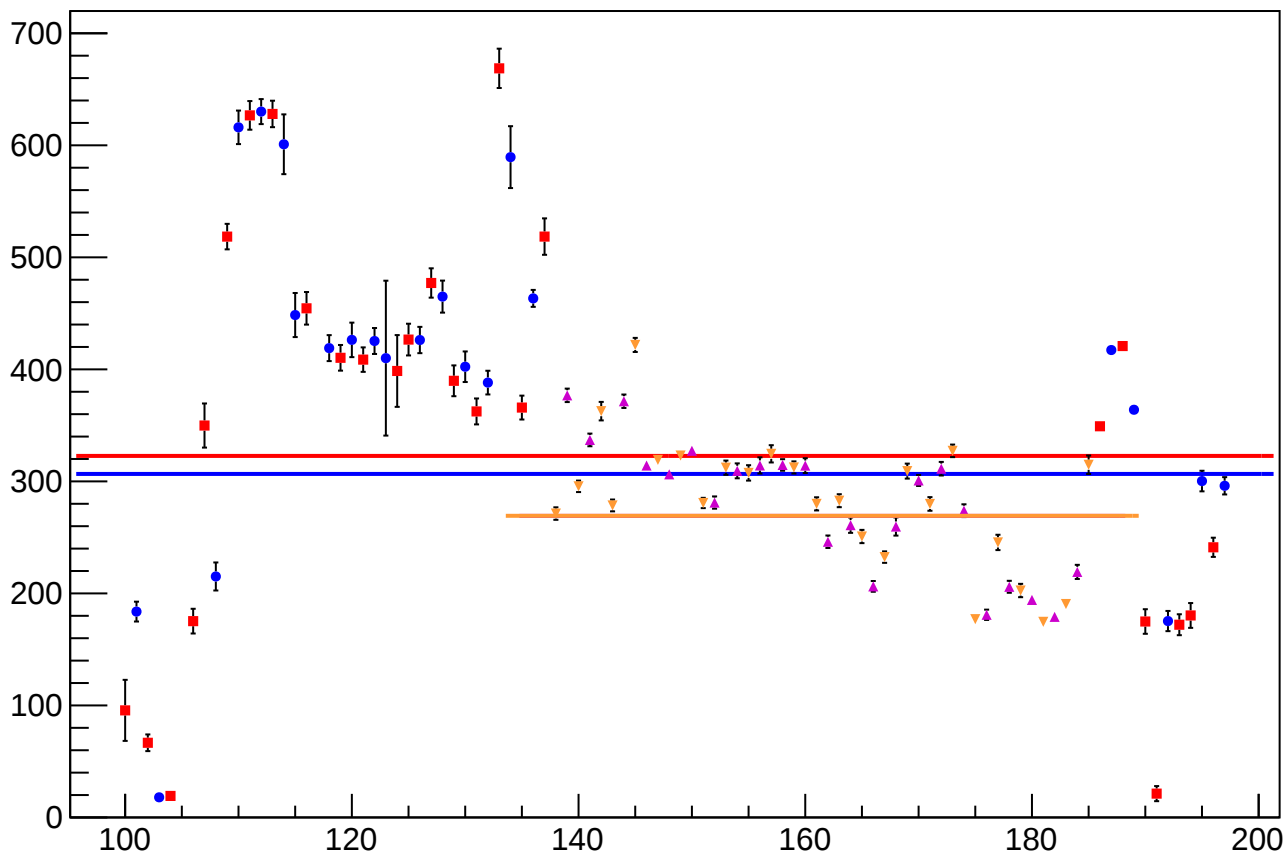
Right: 4.958 ± 0.915 χ^2/NDF : 785.7/47

In: 0.906 ± 0.716 χ^2/NDF : 1057.7/44

Out: 2.025 ± 0.674 χ^2/NDF : 1293.4/50

All: 1.499 ± 0.491 χ^2/NDF : 2352.5/95

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 306.651+/-1.813 χ^2/NDF : 8907.5/21

Left Out: 269.278+/-1.078 χ^2/NDF : 3146.7/24

Right Out: 322.738+/-1.373 χ^2/NDF : 13481.8/25

Left In: 269.191+/-1.091 χ^2/NDF : 3170.2/22

Left: 269.235+/-0.767 χ^2/NDF : 6316.9/47

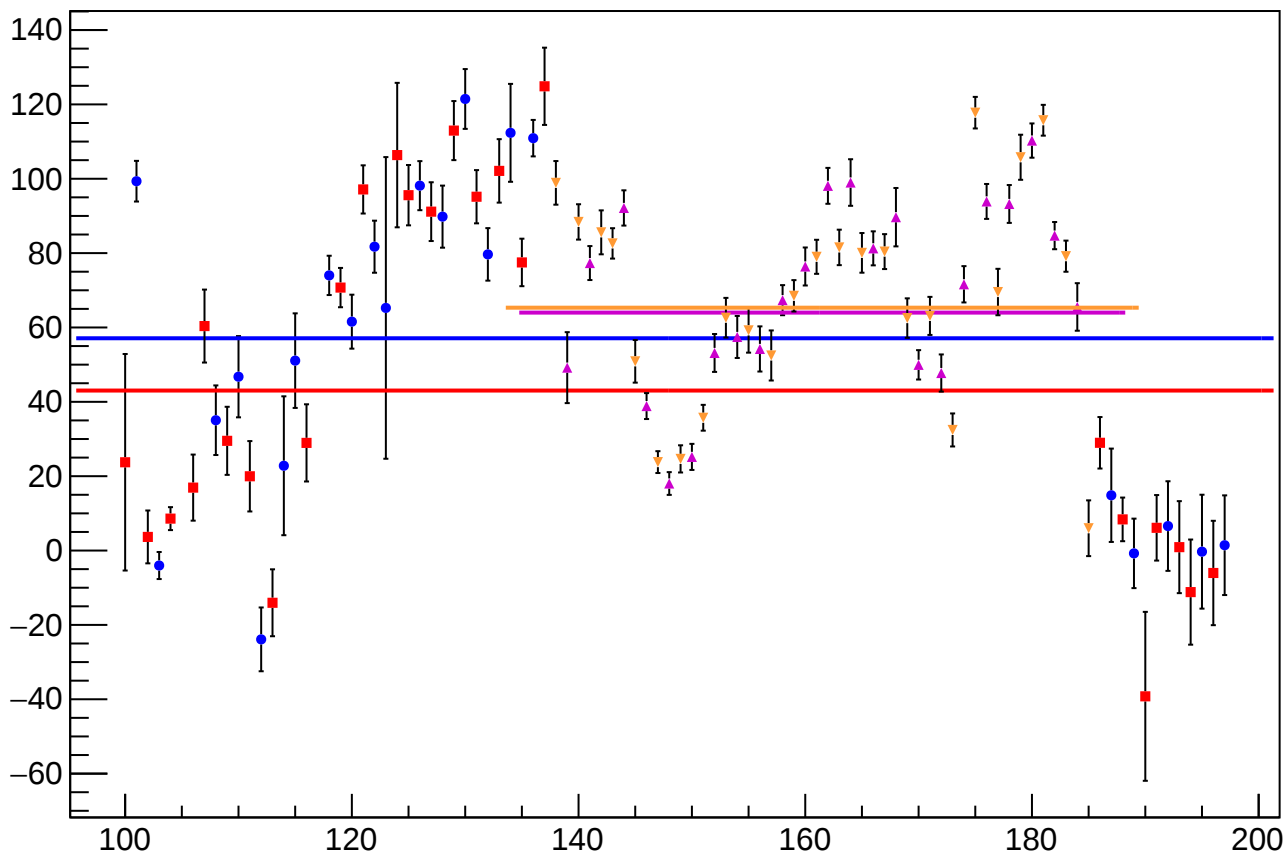
Right: 316.877+/-1.094 χ^2/NDF : 22439.3/47

In: 279.143+/-0.935 χ^2/NDF : 12391.2/44

Out: 289.662+/-0.848 χ^2/NDF : 17566.9/50

All: 284.915+/-0.628 χ^2/NDF : 30027.6/95

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 57.097 $\pm$ 1.618 χ^2/NDF : 829.1/21

Left Out: 65.323 $\pm$ 0.935 χ^2/NDF : 1007.1/24

Right Out: 43.036 $\pm$ 1.489 χ^2/NDF : 782.1/25

Left In: 63.999 $\pm$ 0.963 χ^2/NDF : 799.5/22

Left: 64.681 $\pm$ 0.671 χ^2/NDF : 1807.5/47

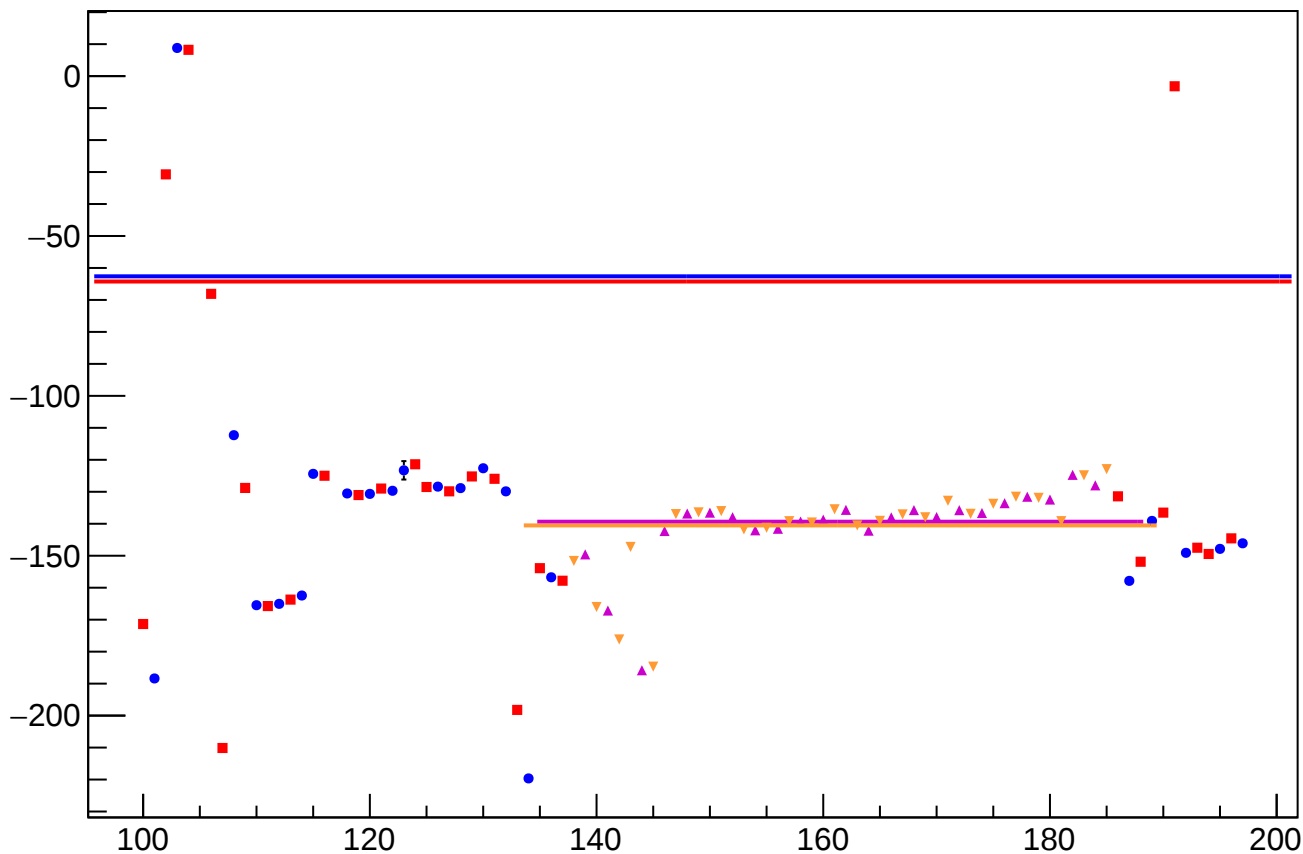
Right: 49.480 $\pm$ 1.096 χ^2/NDF : 1652.1/47

In: 62.194 $\pm$ 0.827 χ^2/NDF : 1642.0/44

Out: 59.021 $\pm$ 0.792 χ^2/NDF : 1950.0/50

All: 60.537 $\pm$ 0.572 χ^2/NDF : 3599.6/95

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -62.618 $\pm$ 0.067 χ^2 /NDF: 1402874.3/21

Left Out: -140.519 $\pm$ 0.045 χ^2 /NDF: 77489.0/24

Right Out: -64.235 $\pm$ 0.064 χ^2 /NDF: 1273912.8/25

Left In: -139.360 $\pm$ 0.045 χ^2 /NDF: 62449.0/22

Left: -139.945 $\pm$ 0.032 χ^2 /NDF: 140272.6/47

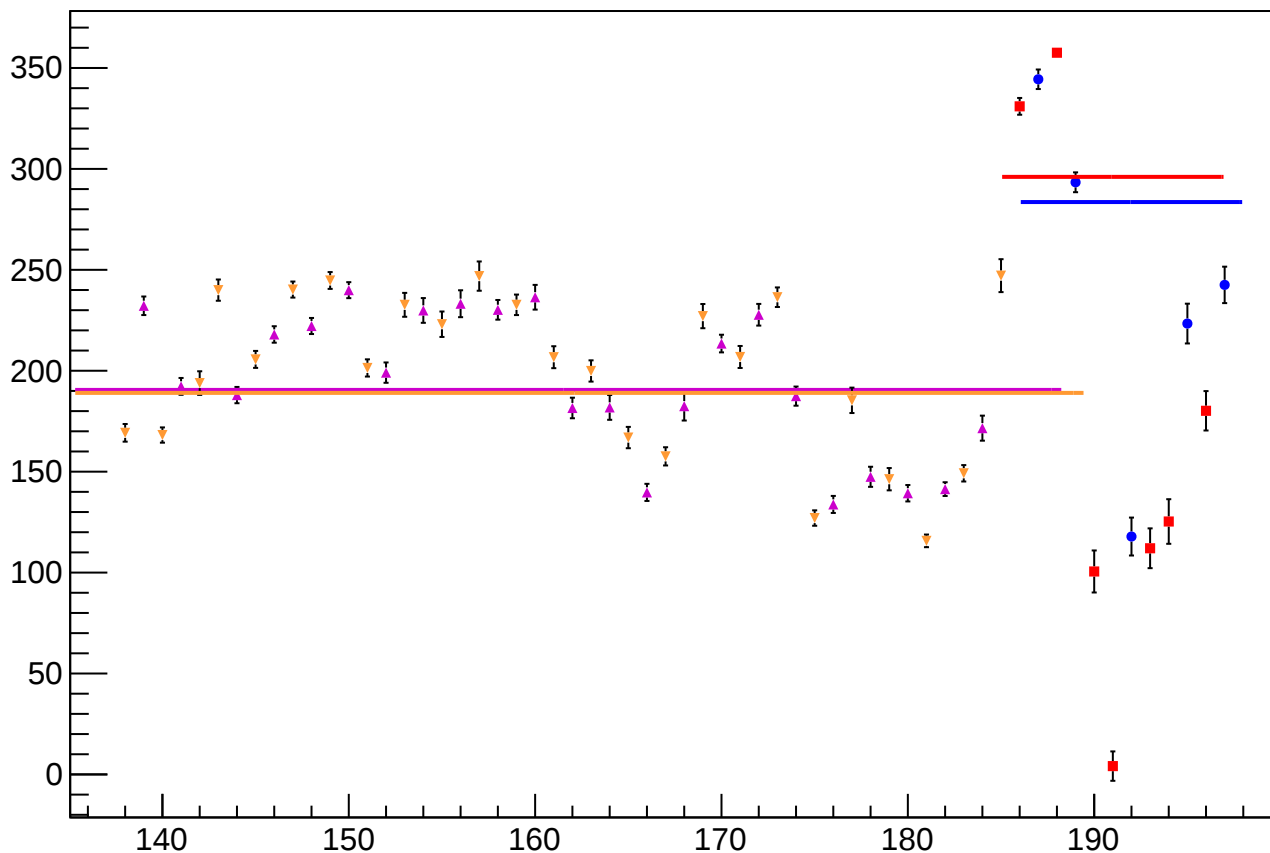
Right: -63.461 $\pm$ 0.046 χ^2 /NDF: 2677092.3/47

In: -115.401 $\pm$ 0.037 χ^2 /NDF: 2372913.9/44

Out: -115.631 $\pm$ 0.037 χ^2 /NDF: 2307853.7/50

All: -115.518 $\pm$ 0.026 χ^2 /NDF: 4680787.0/95

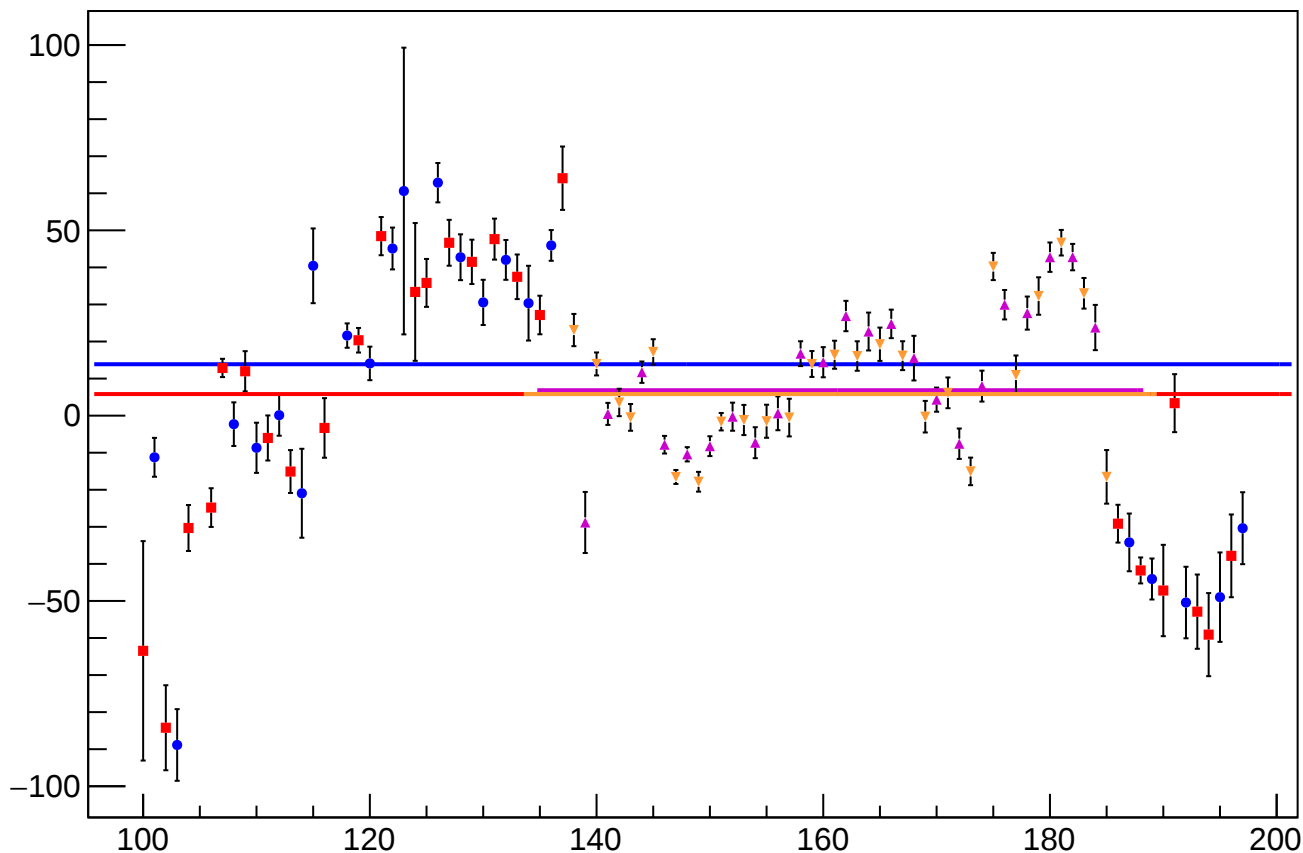
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 283.580 ± 2.911 $\chi^2/\text{NDF}: 531.1/4$
 Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$
 Right Out: 296.057 ± 1.909 $\chi^2/\text{NDF}: 3362.8/6$
 Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$
 Right: 292.304 ± 1.597 $\chi^2/\text{NDF}: 3906.8/11$
 In: 199.895 ± 0.925 $\chi^2/\text{NDF}: 2863.0/27$
 Out: 210.480 ± 0.855 $\chi^2/\text{NDF}: 7856.3/31$
 All: 205.602 ± 0.628 $\chi^2/\text{NDF}: 10789.9/59$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.871+/-1.303 χ^2/NDF : 657.9/21

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

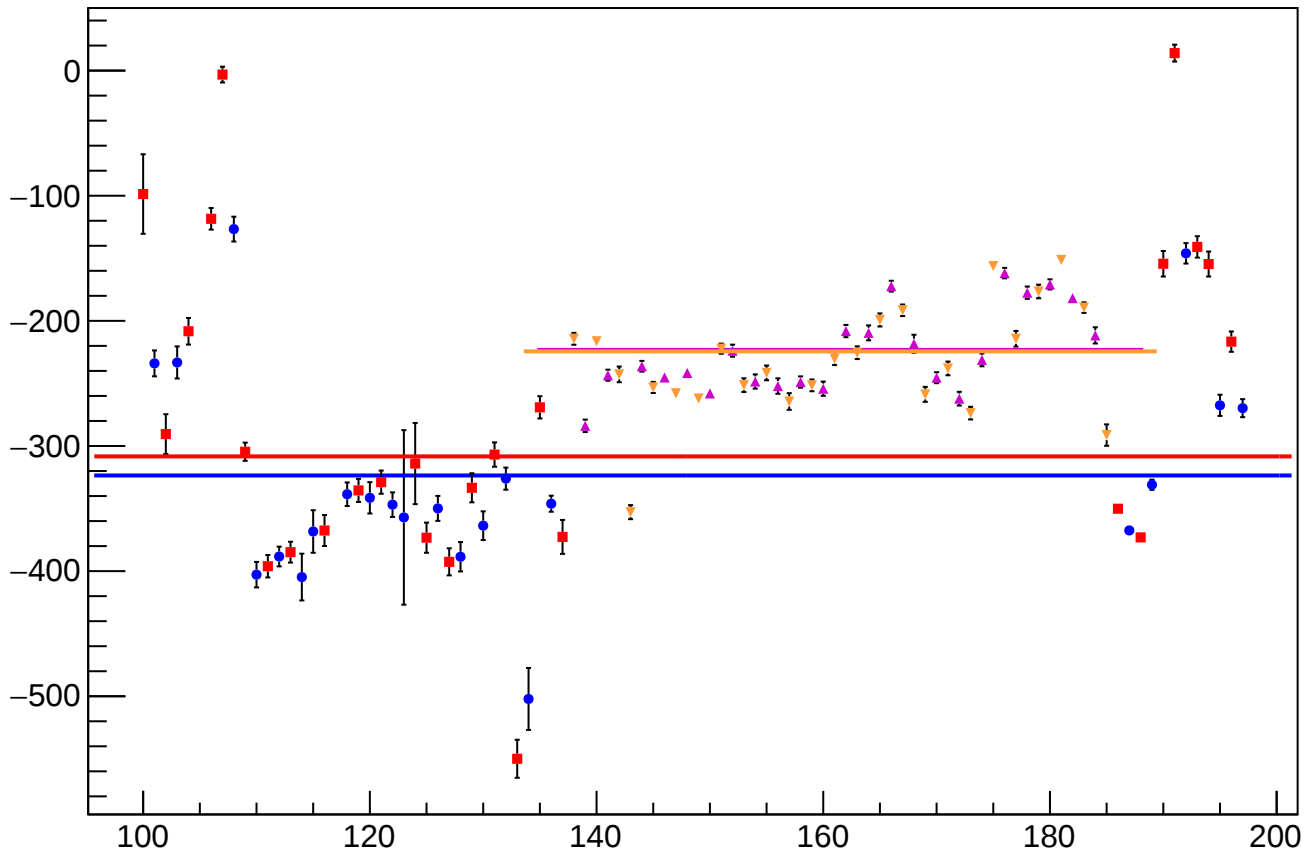
Right: 9.161+/-0.839 χ^2/NDF : 1515.2/47

In: 8.558+/-0.641 χ^2/NDF : 1202.6/44

Out: 5.831+/-0.597 χ^2/NDF : 1487.2/50

All: 7.099+/-0.437 χ^2/NDF : 2699.5/95

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -323.563 ± 1.764 $\chi^2/\text{NDF}: 1493.8/21$

Left Out: -224.364 ± 0.956 $\chi^2/\text{NDF}: 2103.2/24$

Right Out: -308.304 ± 1.298 $\chi^2/\text{NDF}: 8008.3/25$

Left In: -223.223 ± 0.969 $\chi^2/\text{NDF}: 1269.3/22$

Left: -223.801 ± 0.681 $\chi^2/\text{NDF}: 3373.2/47$

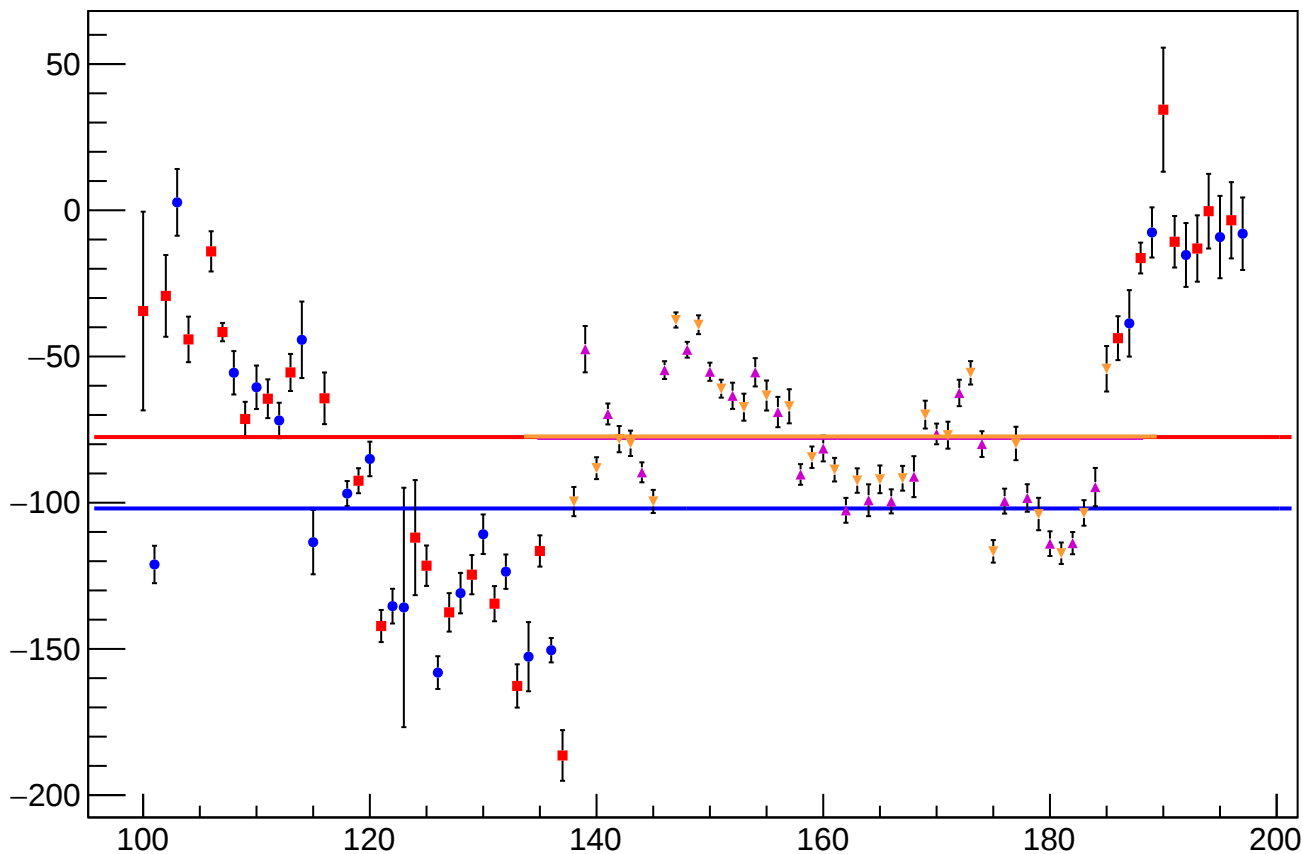
Right: -313.666 ± 1.046 $\chi^2/\text{NDF}: 9550.6/47$

In: -246.488 ± 0.849 $\chi^2/\text{NDF}: 5248.4/44$

Out: -253.872 ± 0.770 $\chi^2/\text{NDF}: 12821.6/50$

All: -250.542 ± 0.570 $\chi^2/\text{NDF}: 18111.4/95$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -101.967 ± 1.522 χ^2/NDF : 853.6/21

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

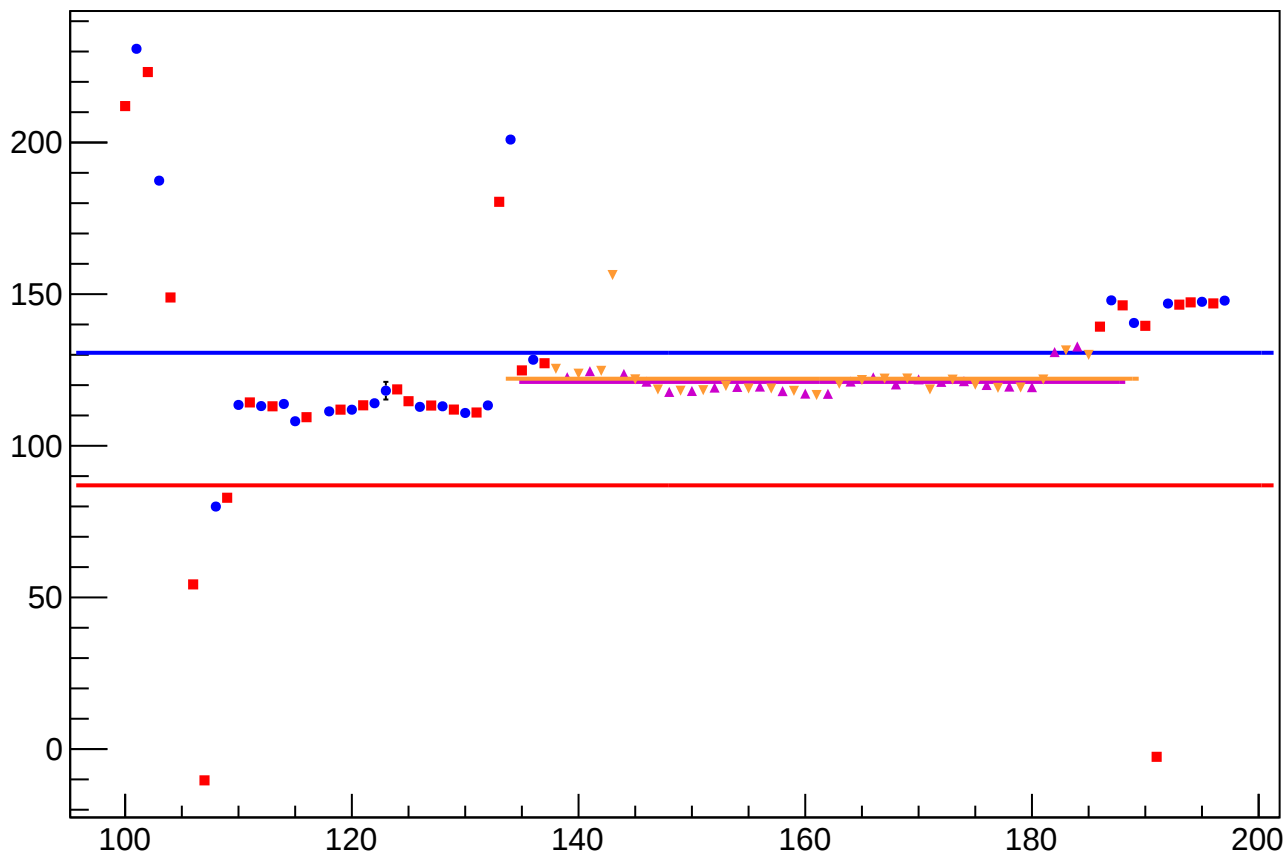
Right: -88.027 ± 0.997 χ^2/NDF : 2369.3/47

In: -83.560 ± 0.741 χ^2/NDF : 1668.0/44

Out: -77.402 ± 0.701 χ^2/NDF : 2215.1/50

All: -80.307 ± 0.509 χ^2/NDF : 3919.5/95

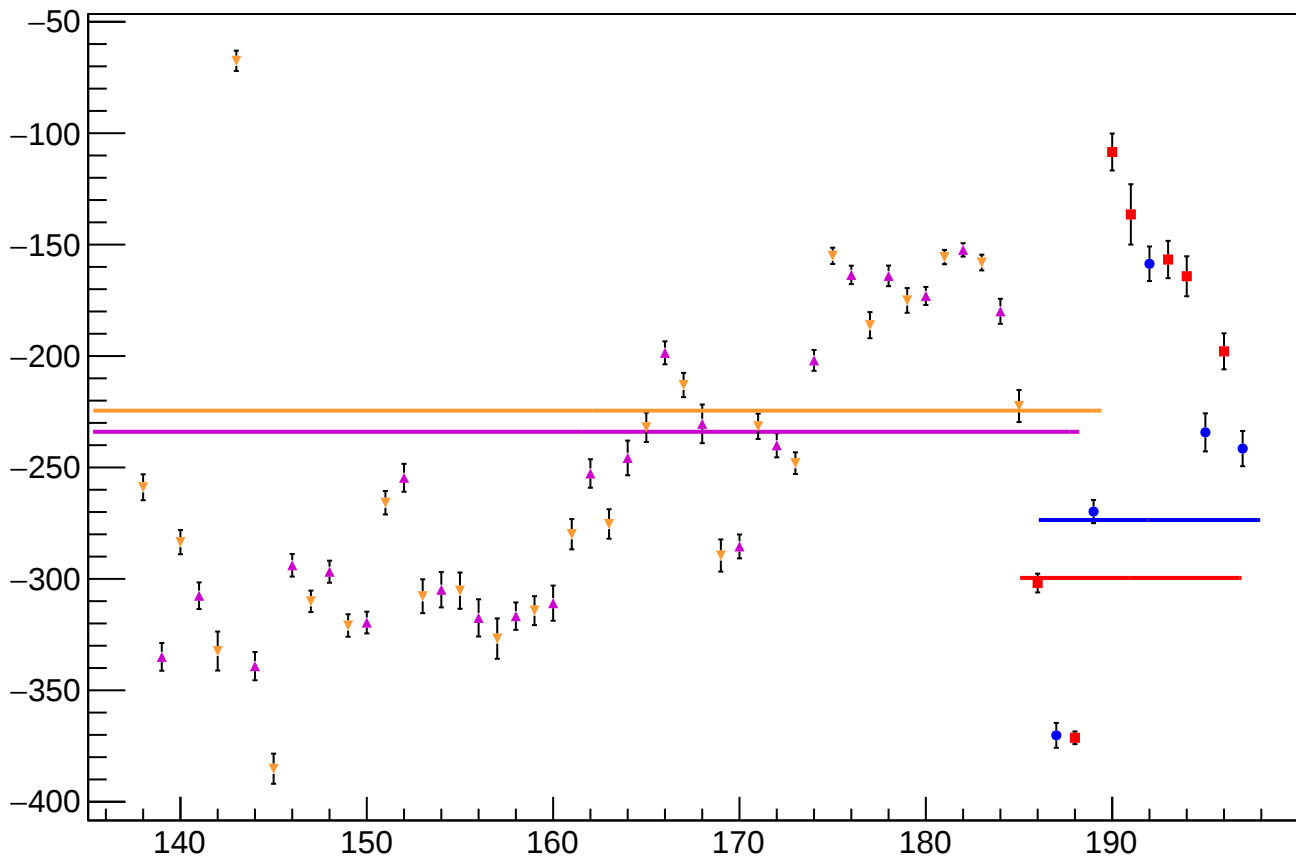
reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 130.666 $\pm$ 0.081 χ^2 /NDF: 195634.4/21
 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: 104.218 $\pm$ 0.051 χ^2 /NDF: 1412232.9/47
 In: 122.911 $\pm$ 0.036 χ^2 /NDF: 214864.1/44
 Out: 112.796 $\pm$ 0.034 χ^2 /NDF: 1282868.3/50
 All: 117.576 $\pm$ 0.025 χ^2 /NDF: 1540089.6/95

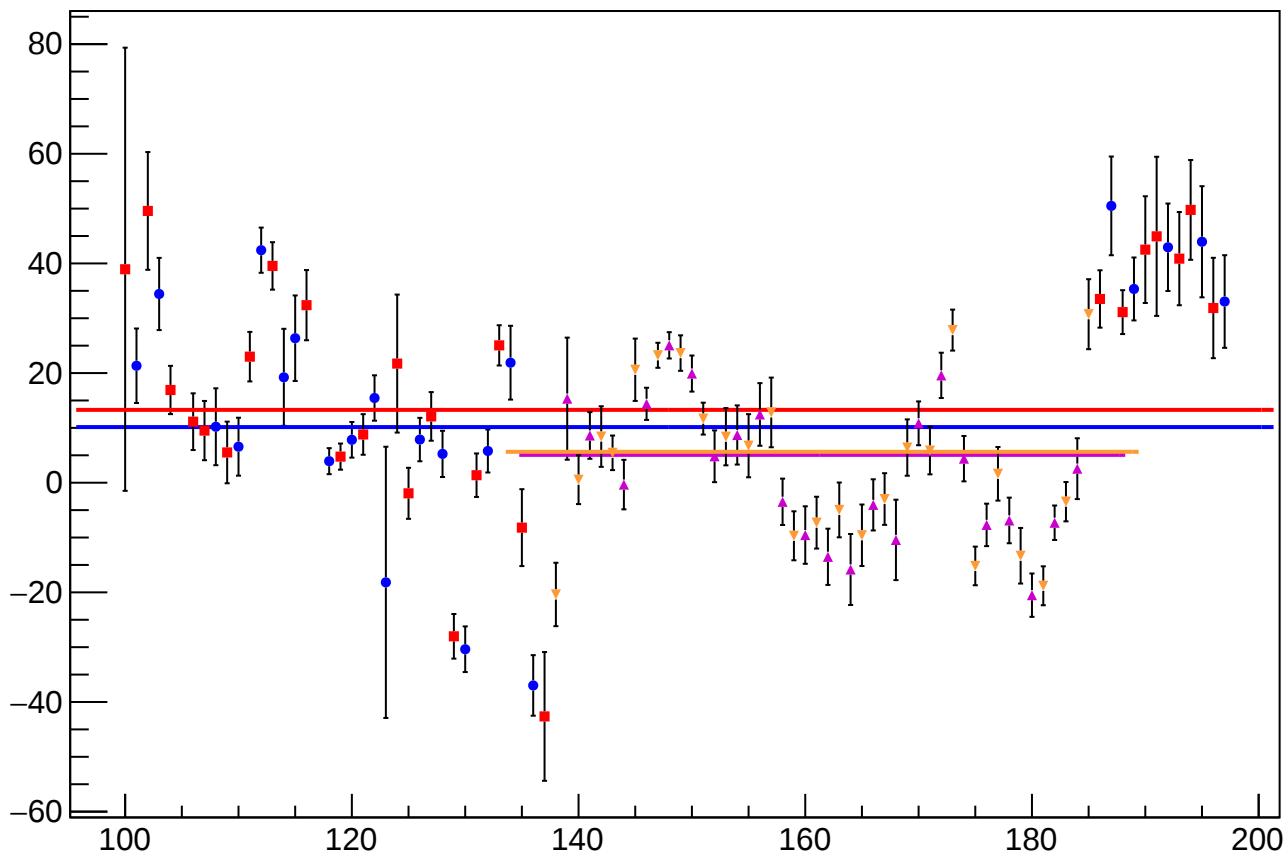
reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -273.577 ± 2.944 $\chi^2/\text{NDF}: 556.9/4$
 Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$
 Right Out: -299.561 ± 2.035 $\chi^2/\text{NDF}: 1986.9/6$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$
 Right: -291.161 ± 1.674 $\chi^2/\text{NDF}: 2596.6/11$
 In: -238.904 ± 1.037 $\chi^2/\text{NDF}: 4253.7/27$
 Out: -240.976 ± 0.953 $\chi^2/\text{NDF}: 7919.5/31$
 All: -240.027 ± 0.702 $\chi^2/\text{NDF}: 12175.4/59$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.147 ± 1.054 $\chi^2/\text{NDF}: 342.1/21$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 13.287 ± 0.990 $\chi^2/\text{NDF}: 324.5/25$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

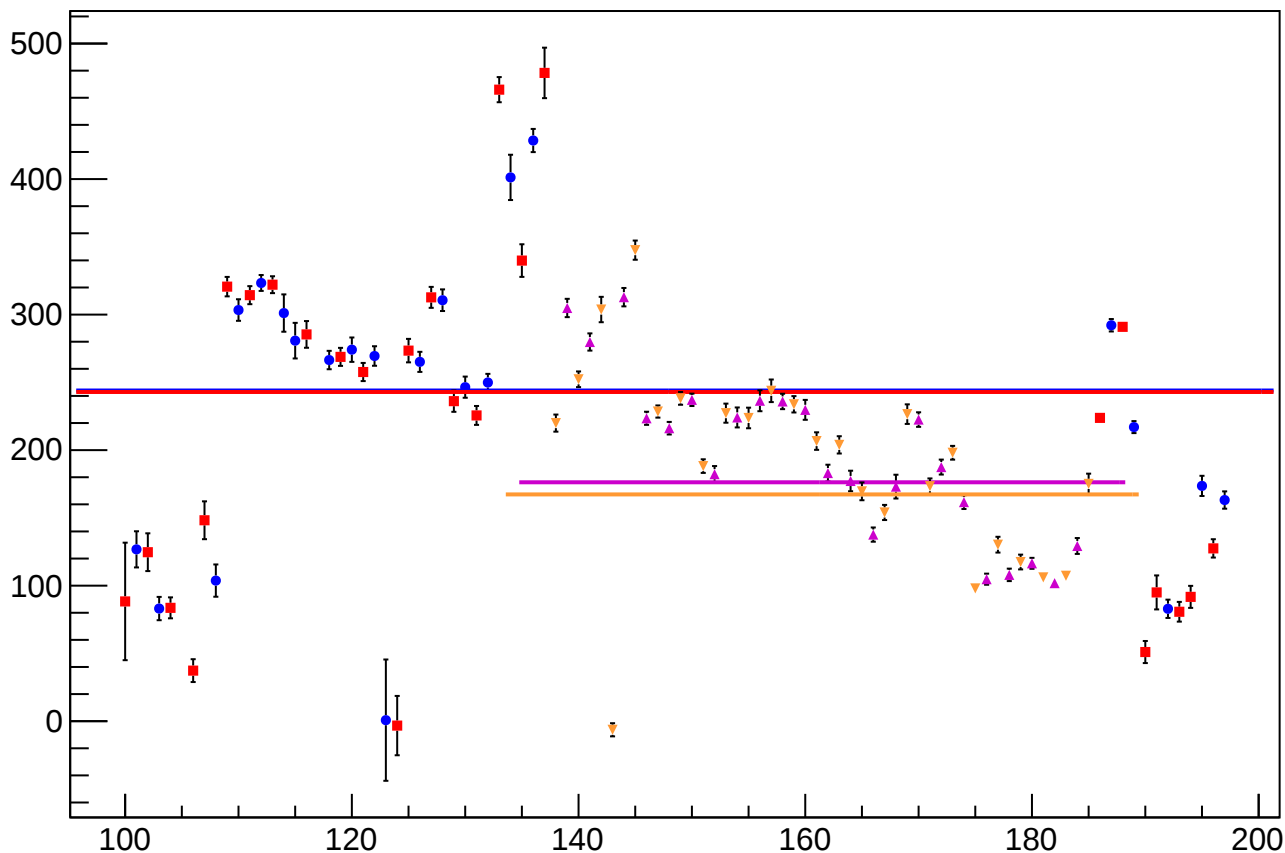
Right: 11.815 ± 0.721 $\chi^2/\text{NDF}: 671.3/47$

In: 7.130 ± 0.670 $\chi^2/\text{NDF}: 595.5/44$

Out: 8.787 ± 0.635 $\chi^2/\text{NDF}: 673.3/50$

All: 8.003 ± 0.461 $\chi^2/\text{NDF}: 1272.0/95$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 243.989 $\pm$ 1.599 χ^2 /NDF: 2492.3/21

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 242.913 $\pm$ 1.281 χ^2 /NDF: 4909.6/25

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

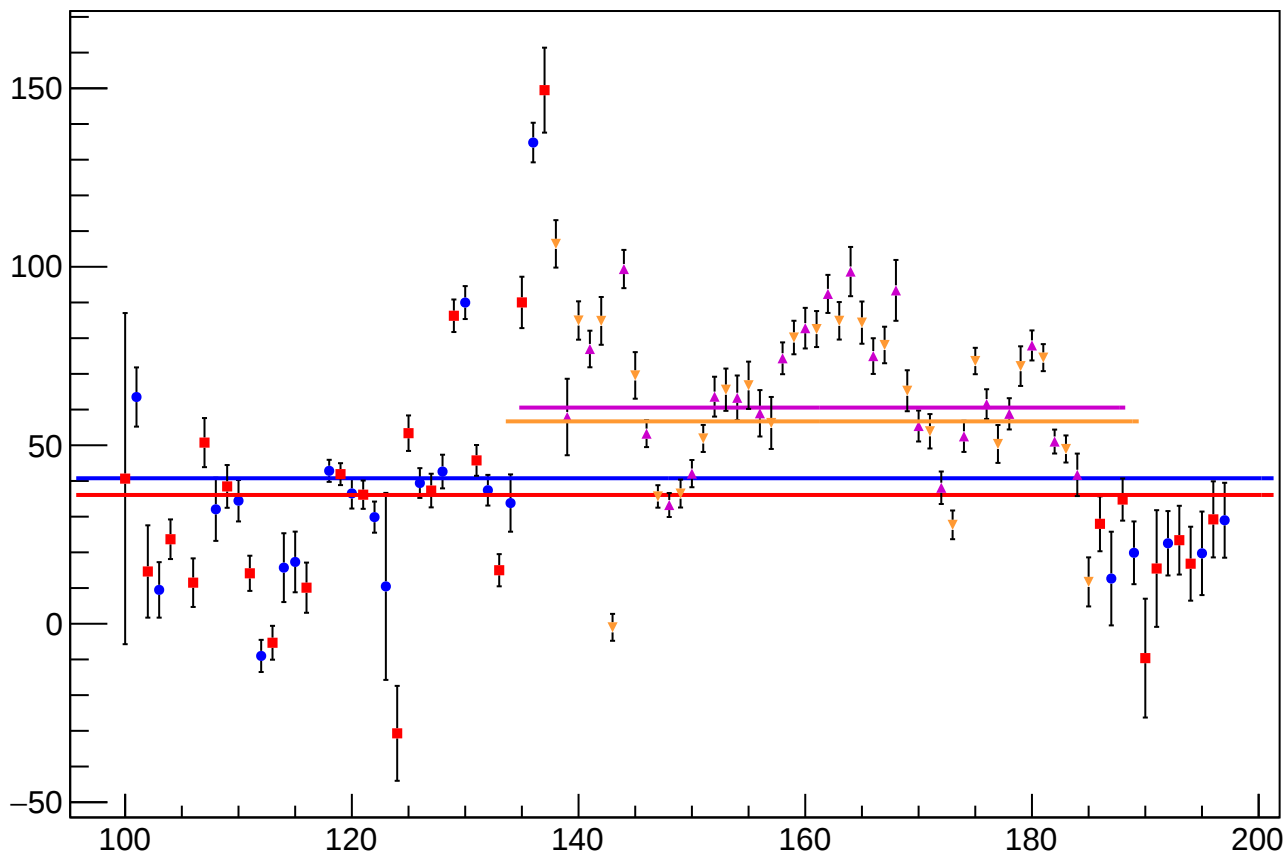
Right: 243.333 $\pm$ 1.000 χ^2 /NDF: 7402.2/47

In: 198.171 $\pm$ 0.910 χ^2 /NDF:6874.8/44

Out: 198.822 $\pm$ 0.827 χ^2 /NDF:11395.6/50

All: 198.528 $\pm$ 0.612 χ^2 /NDF: 18270.7/95

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.759 $\pm$ 1.230 χ^2 /NDF: 593.3/21

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

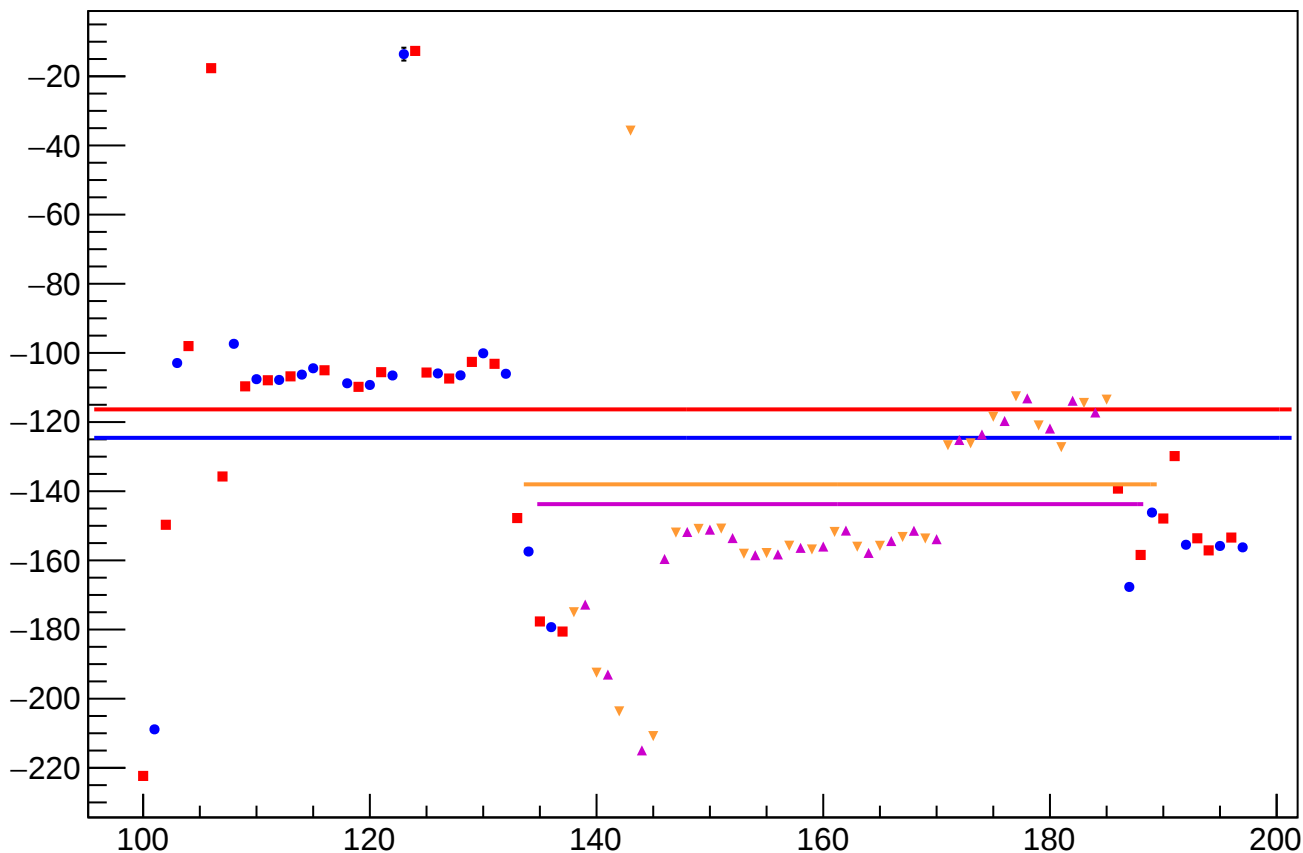
Right: 38.293 $\pm$ 0.846 χ^2 /NDF: 1088.3/47

In: 52.771 $\pm$ 0.771 χ^2 /NDF:1086.1/44

Out: 48.451 $\pm$ 0.737 χ^2 /NDF:1365.4/50

All: 50.514 $\pm$ 0.533 χ^2 /NDF: 2467.9/95

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -124.561+/-0.071 χ^2/NDF : 183911.6/21

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

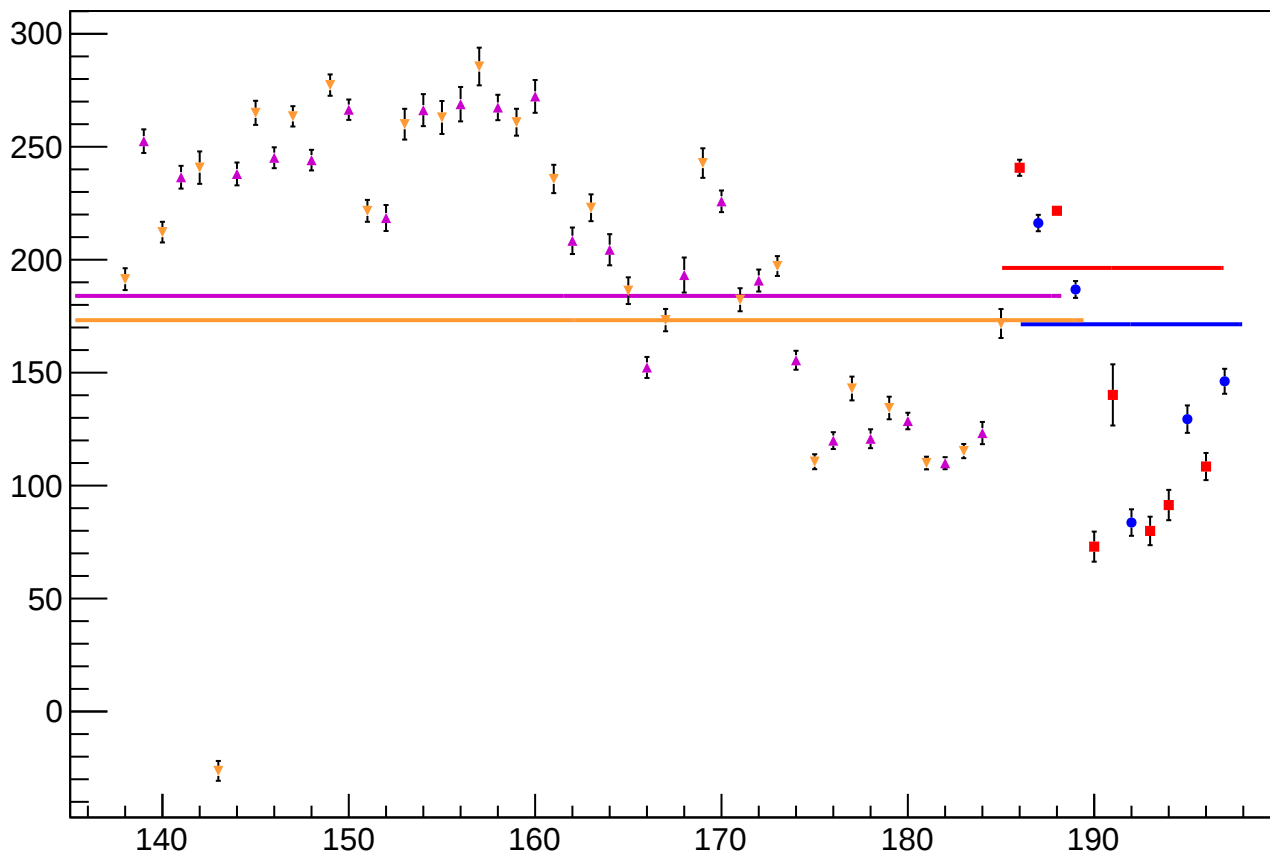
Right: -120.029+/-0.048 χ^2/NDF : 609878.7/47

In: -138.040+/-0.039 χ^2/NDF : 493702.5/44

Out: -130.818+/-0.037 χ^2/NDF : 1060847.9/50

All: -134.261+/-0.027 χ^2/NDF : 1572820.7/95

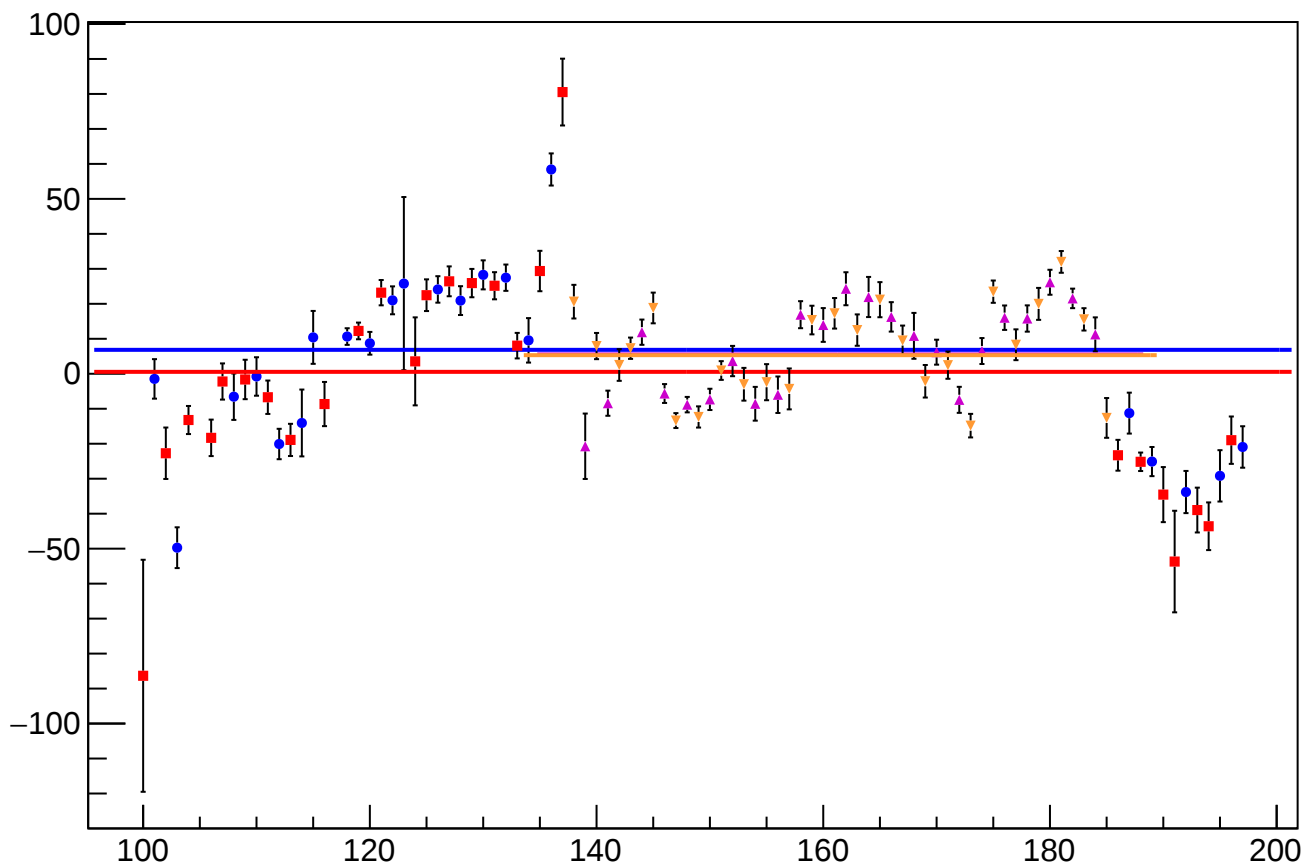
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 171.424 $\pm$ 2.054 χ^2 /NDF: 461.9/4
 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: 188.004 $\pm$ 1.189 χ^2 /NDF: 2059.7/11
 In: 181.613 $\pm$ 0.893 χ^2 /NDF:4105.9/27
 Out: 180.278 $\pm$ 0.805 χ^2 /NDF:7520.7/31
 All: 180.877 $\pm$ 0.598 χ^2 /NDF: 11627.8/59

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.843 ± 0.988 χ^2/NDF : 537.0/21

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

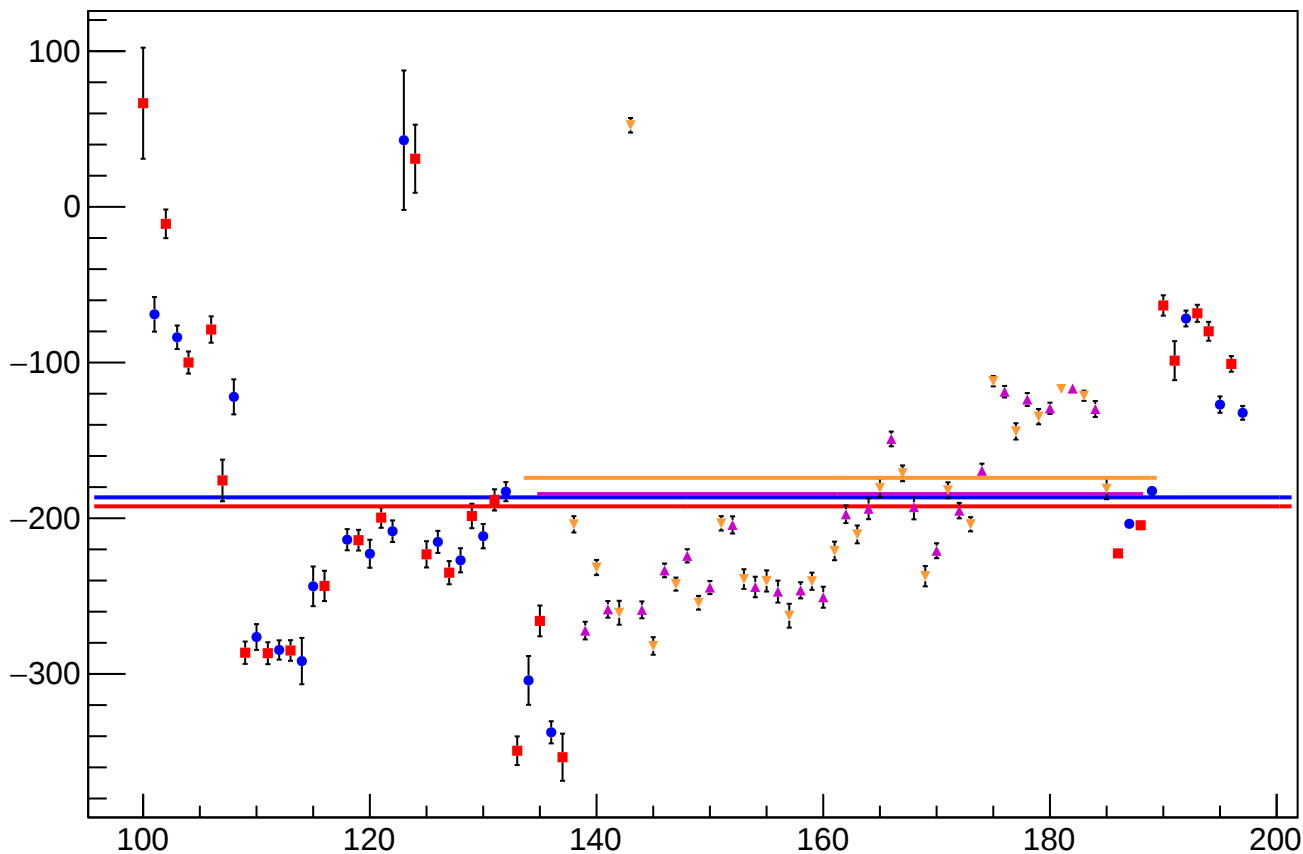
Right: 3.460 ± 0.672 χ^2/NDF : 1171.7/47

In: 6.033 ± 0.613 χ^2/NDF : 794.4/44

Out: 3.415 ± 0.579 χ^2/NDF : 974.7/50

All: 4.650 ± 0.421 χ^2/NDF : 1778.8/95

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -186.576 ± 1.308 $\chi^2/\text{NDF}: 2215.3/21$

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 $\chi^2/\text{NDF}: 8551.0/47$

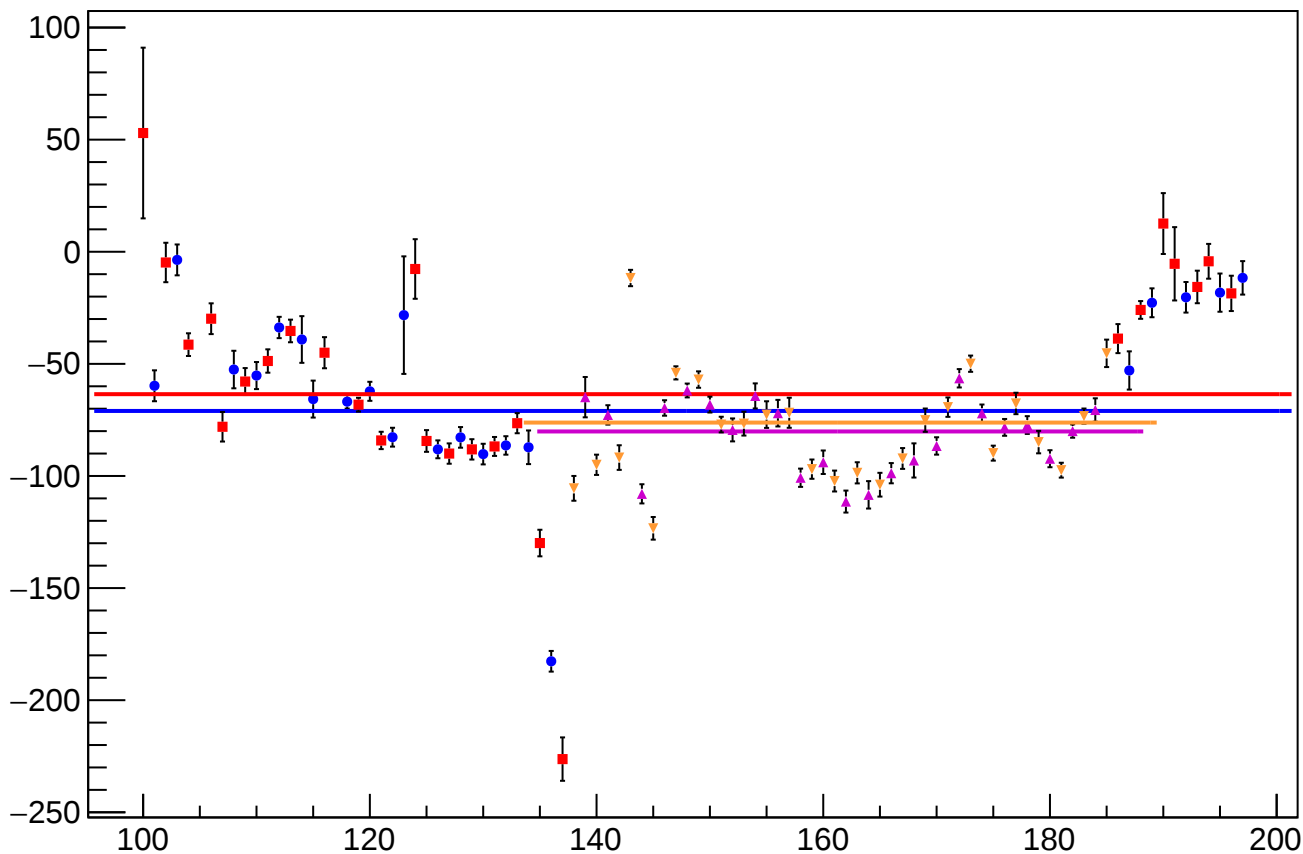
Right: -190.179 ± 0.803 $\chi^2/\text{NDF}: 6023.4/47$

In: -185.229 ± 0.790 $\chi^2/\text{NDF}: 5268.6/44$

Out: -182.788 ± 0.702 $\chi^2/\text{NDF}: 9408.5/50$

All: -183.866 ± 0.525 $\chi^2/\text{NDF}: 14682.5/95$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.999 ± 1.161 $\chi^2/\text{NDF}: 1062.1/21$

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 $\chi^2/\text{NDF}: 1094.6/47$

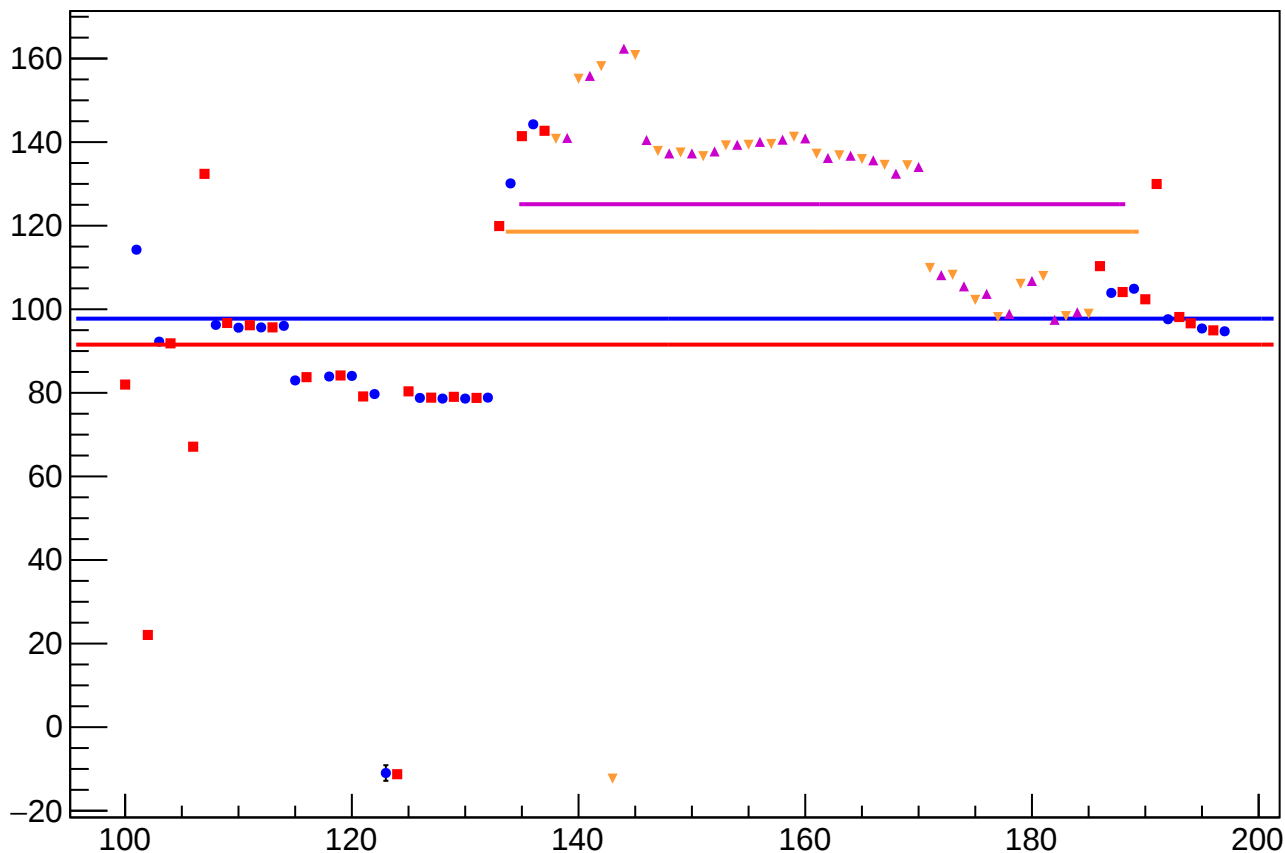
Right: -67.042 ± 0.797 $\chi^2/\text{NDF}: 2094.3/47$

In: -76.766 ± 0.706 $\chi^2/\text{NDF}: 1384.5/44$

Out: -71.372 ± 0.675 $\chi^2/\text{NDF}: 1894.1/50$

All: -73.949 ± 0.488 $\chi^2/\text{NDF}: 3309.2/95$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.756 $\pm$ 0.063 χ^2 /NDF: 94841.8/21

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 91.542 $\pm$ 0.057 χ^2 /NDF: 239745.0/25

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

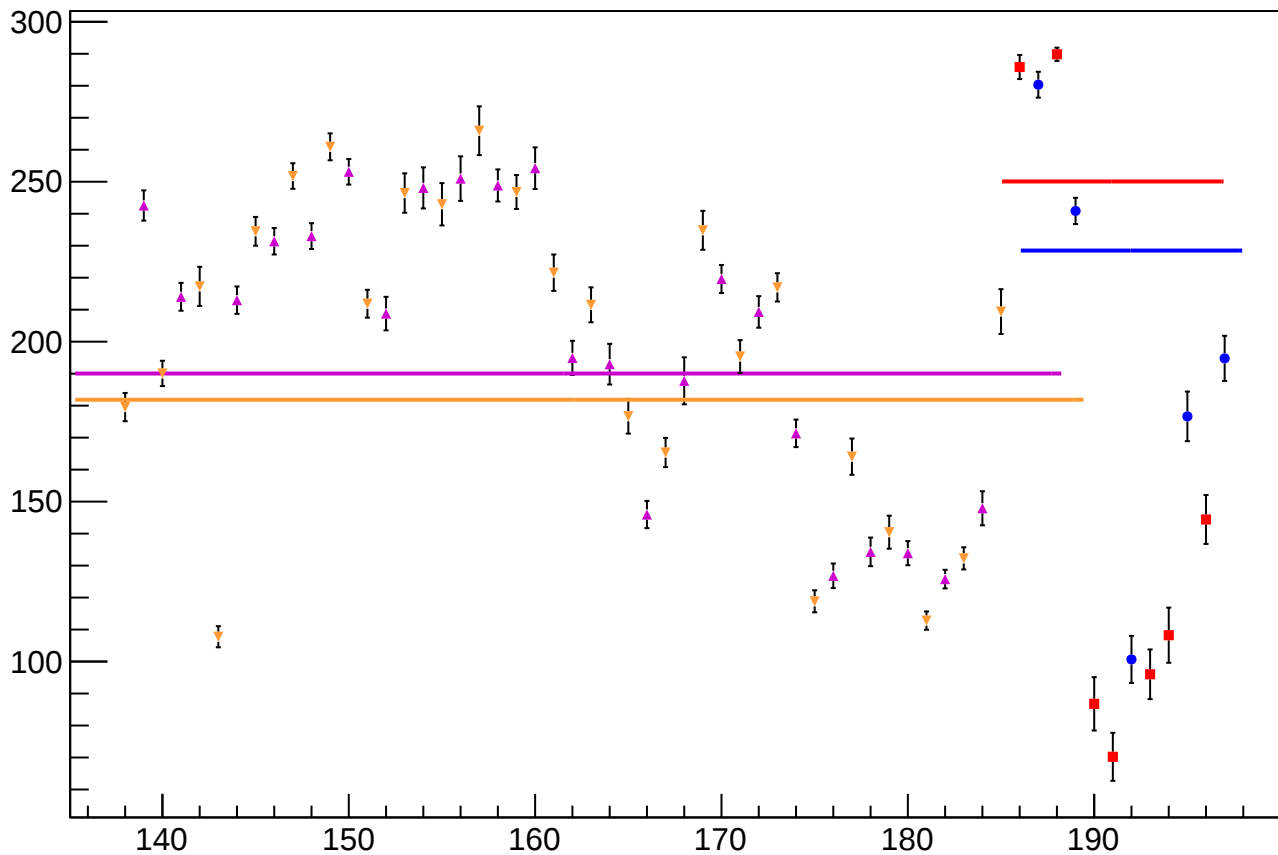
Right: 94.325 $\pm$ 0.042 χ^2 /NDF: 339920.3/47

In: 116.954 $\pm$ 0.035 χ^2 /NDF: 447277.3/44

Out: 109.493 $\pm$ 0.033 χ^2 /NDF: 1118036.3/50

All: 113.051 $\pm$ 0.024 χ^2 /NDF: 1589689.3/95

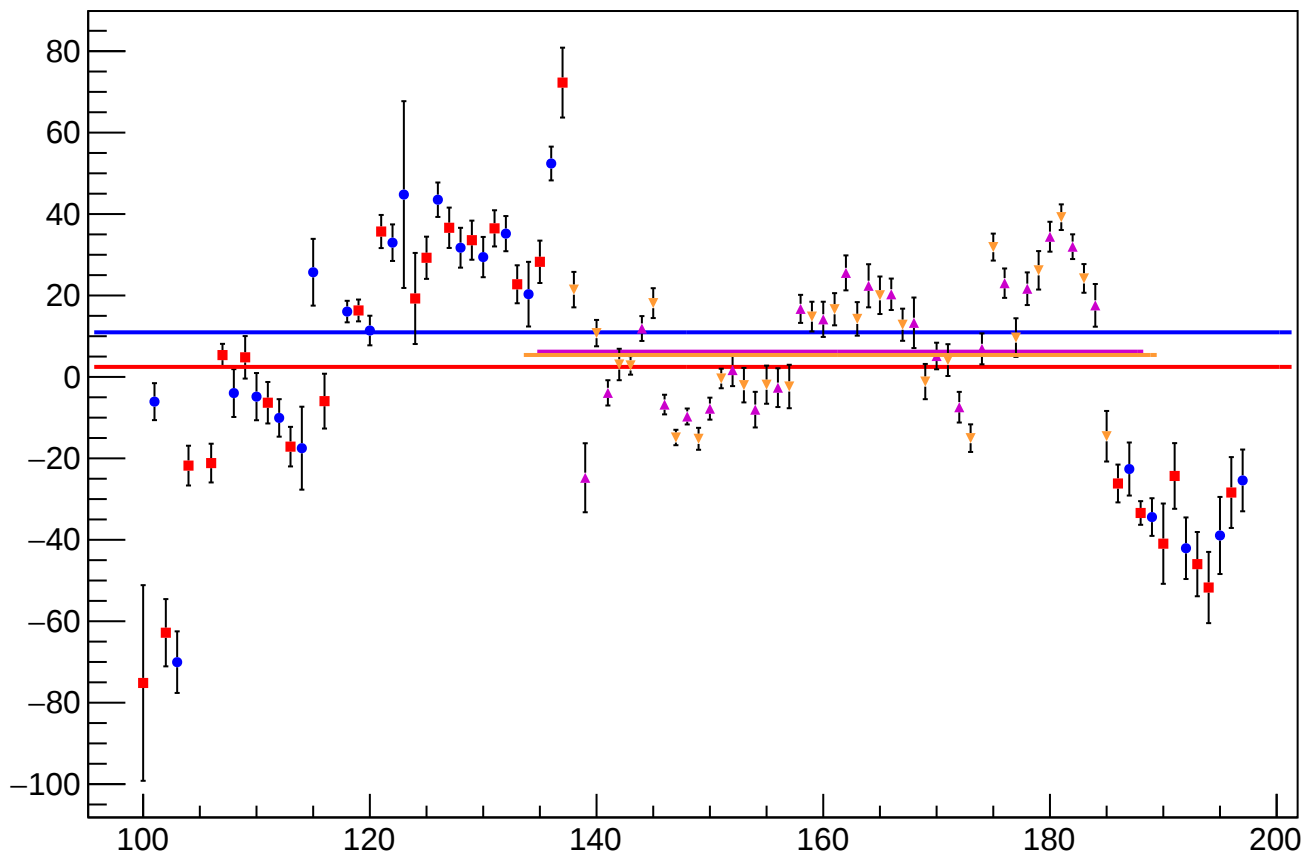
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 228.485 ± 2.388 $\chi^2/\text{NDF}: 542.3/4$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 250.087 ± 1.615 $\chi^2/\text{NDF}: 2274.1/6$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 243.311 ± 1.338 $\chi^2/\text{NDF}: 2872.5/11$
 In: 195.326 ± 0.885 $\chi^2/\text{NDF}: 3204.1/27$
 Out: 198.393 ± 0.795 $\chi^2/\text{NDF}: 6930.6/31$
 All: 197.023 ± 0.591 $\chi^2/\text{NDF}: 10141.4/59$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.955 ± 1.085 χ^2/NDF : 651.3/21

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

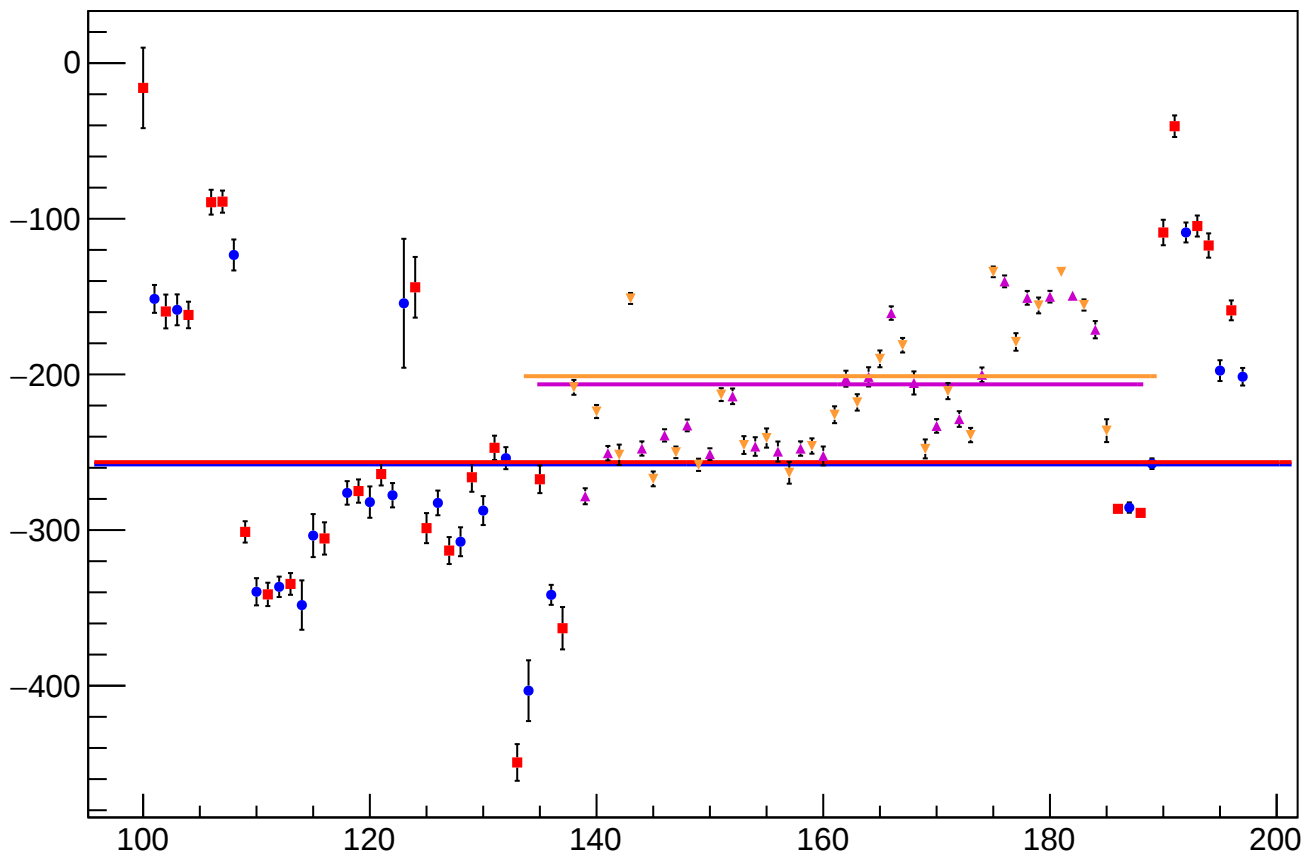
Right: 6.196 ± 0.719 χ^2/NDF : 1520.0/47

In: 7.691 ± 0.607 χ^2/NDF : 1072.0/44

Out: 4.400 ± 0.559 χ^2/NDF : 1367.0/50

All: 5.912 ± 0.411 χ^2/NDF : 2454.9/95

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -257.804 ± 1.470 χ^2/NDF : 1790.6/21

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -256.363 ± 1.107 χ^2/NDF : 4869.6/25

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

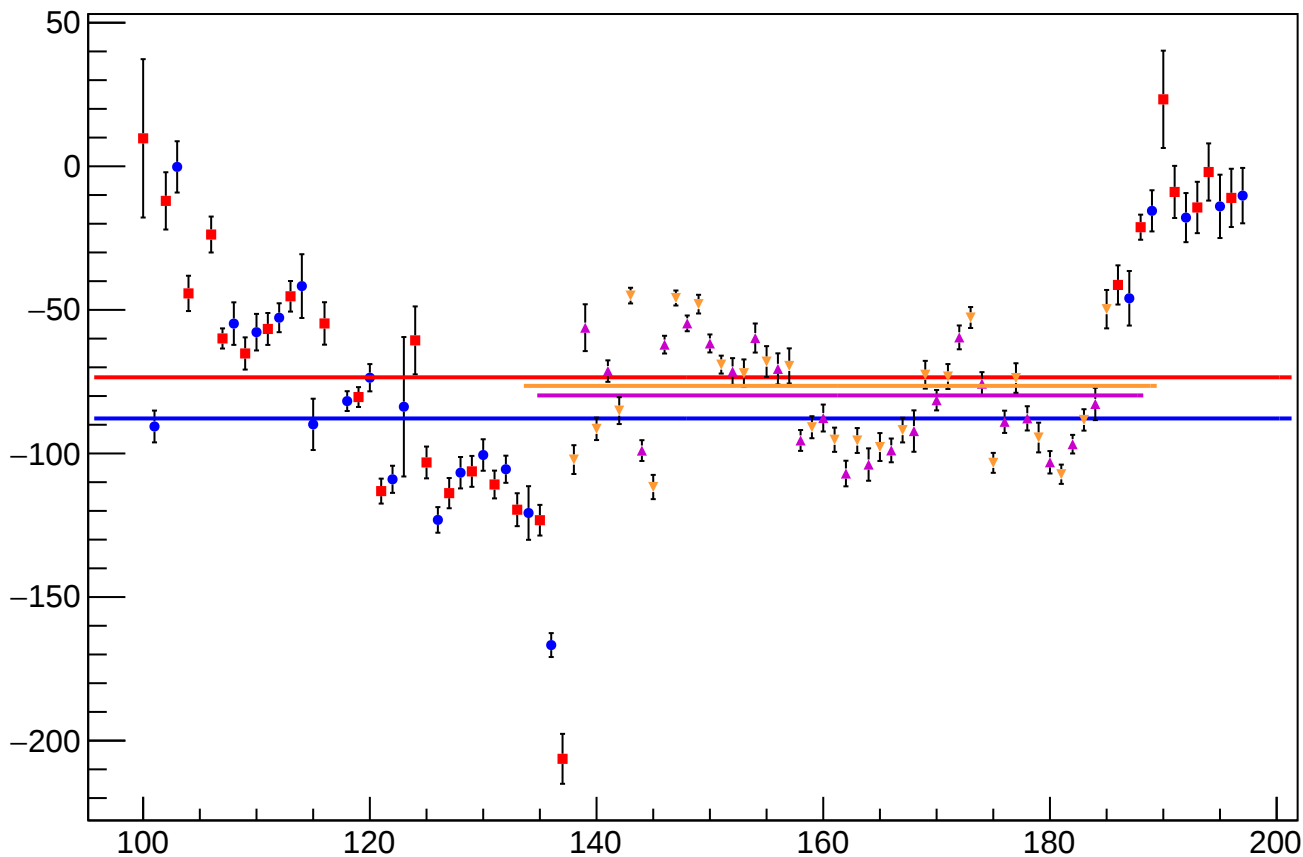
Right: -256.885 ± 0.884 χ^2/NDF : 6660.8/47

In: -221.525 ± 0.798 χ^2/NDF : 4766.0/44

Out: -223.640 ± 0.707 χ^2/NDF : 8833.0/50

All: -222.710 ± 0.529 χ^2/NDF : 13602.9/95

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.808 ± 1.273 χ^2/NDF : 999.8/21

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -73.483 ± 1.152 χ^2/NDF : 1232.8/25

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

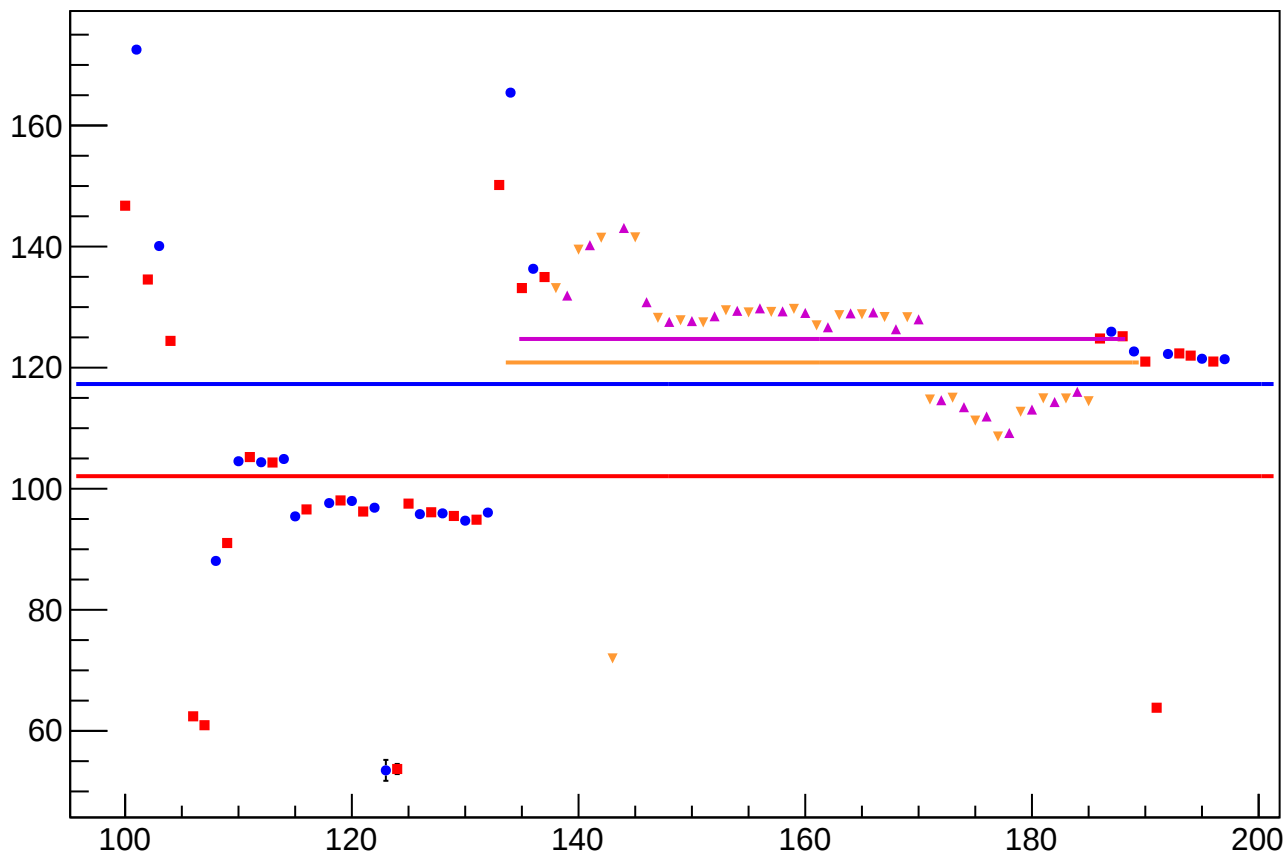
Right: -79.936 ± 0.854 χ^2/NDF : 2302.2/47

In: -82.223 ± 0.701 χ^2/NDF : 1439.7/44

Out: -75.497 ± 0.655 χ^2/NDF : 2018.6/50

All: -78.634 ± 0.479 χ^2/NDF : 3507.5/95

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.295 $\pm$ 0.070 χ^2 /NDF: 107070.3/21

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

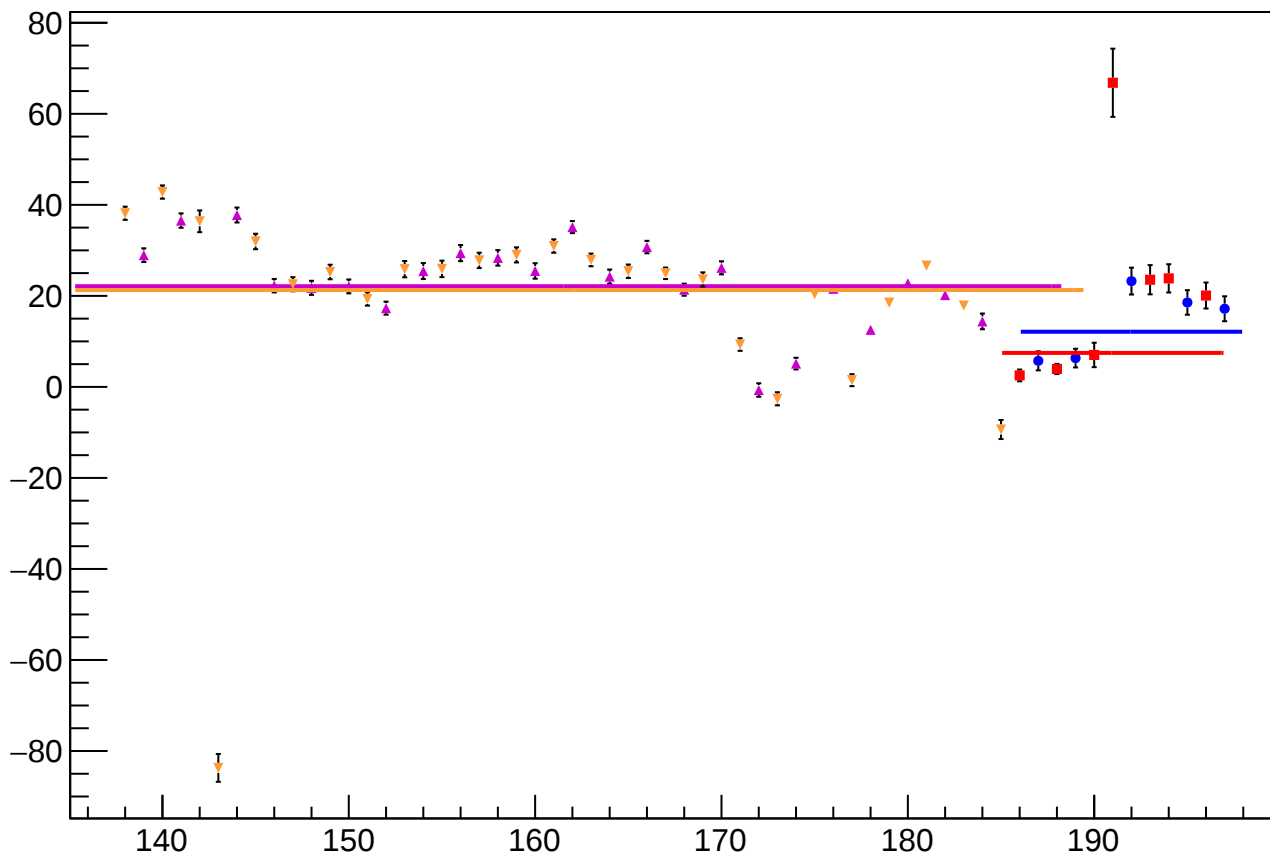
Right: 108.385 $\pm$ 0.045 χ^2 /NDF: 360297.3/47

In: 122.952 $\pm$ 0.034 χ^2 /NDF:166999.5/44

Out: 115.309 $\pm$ 0.032 χ^2 /NDF:480112.7/50

All: 118.869 $\pm$ 0.023 χ^2 /NDF: 673763.7/95

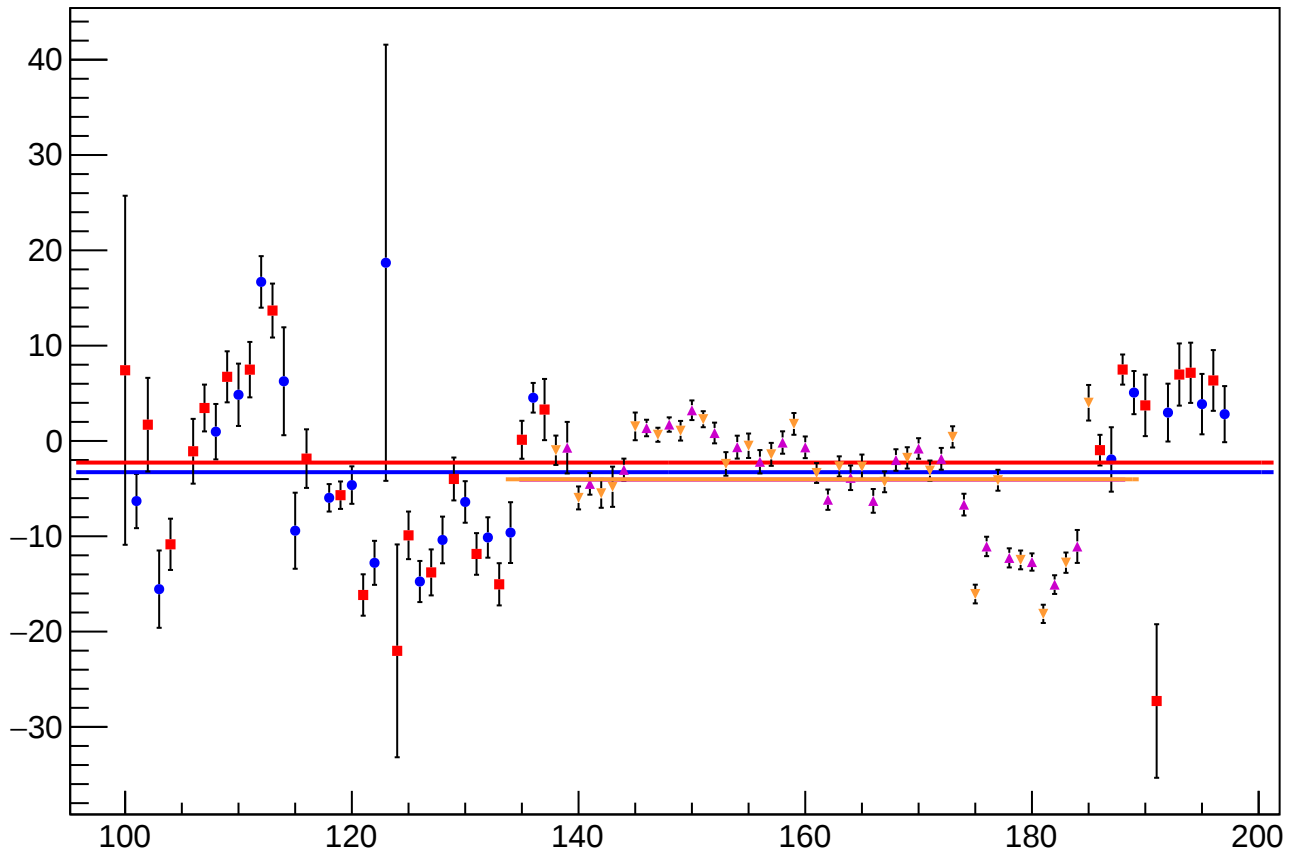
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.123+/-1.085 χ^2/NDF : 40.5/4
 Left Out: 21.282+/-0.282 χ^2/NDF :2600.5/24
 Right Out: 7.471+/-0.729 χ^2/NDF : 159.8/6
 Left In: 22.127+/-0.285 χ^2/NDF :900.2/22

Left: 21.700+/-0.201 χ^2/NDF : 3505.2/47
 Right: 8.918+/-0.605 χ^2/NDF : 213.1/11
 In: 21.479+/-0.276 χ^2/NDF :1020.3/27
 Out: 19.479+/-0.263 χ^2/NDF :3072.6/31
 All: 20.431+/-0.191 χ^2/NDF : 4120.3/59

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.275 ± 0.535 $\chi^2/\text{NDF}: 205.8/21$

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 $\chi^2/\text{NDF}: 1311.4/47$

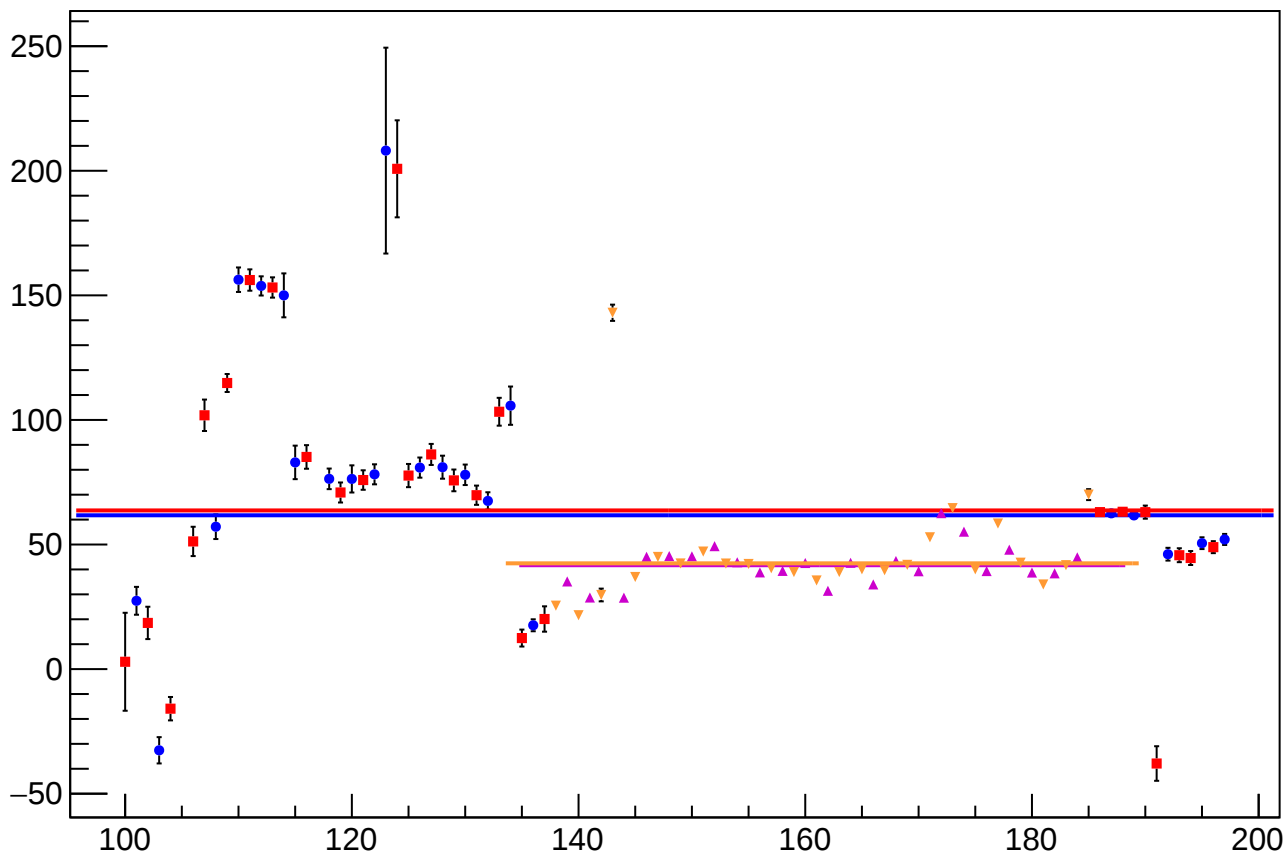
Right: -2.731 ± 0.363 $\chi^2/\text{NDF}: 494.2/47$

In: -3.938 ± 0.210 $\chi^2/\text{NDF}: 784.9/44$

Out: -3.724 ± 0.203 $\chi^2/\text{NDF}: 1031.1/50$

All: -3.828 ± 0.146 $\chi^2/\text{NDF}: 1816.5/95$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 61.731 ± 0.700 χ^2/NDF : 1966.6/21

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

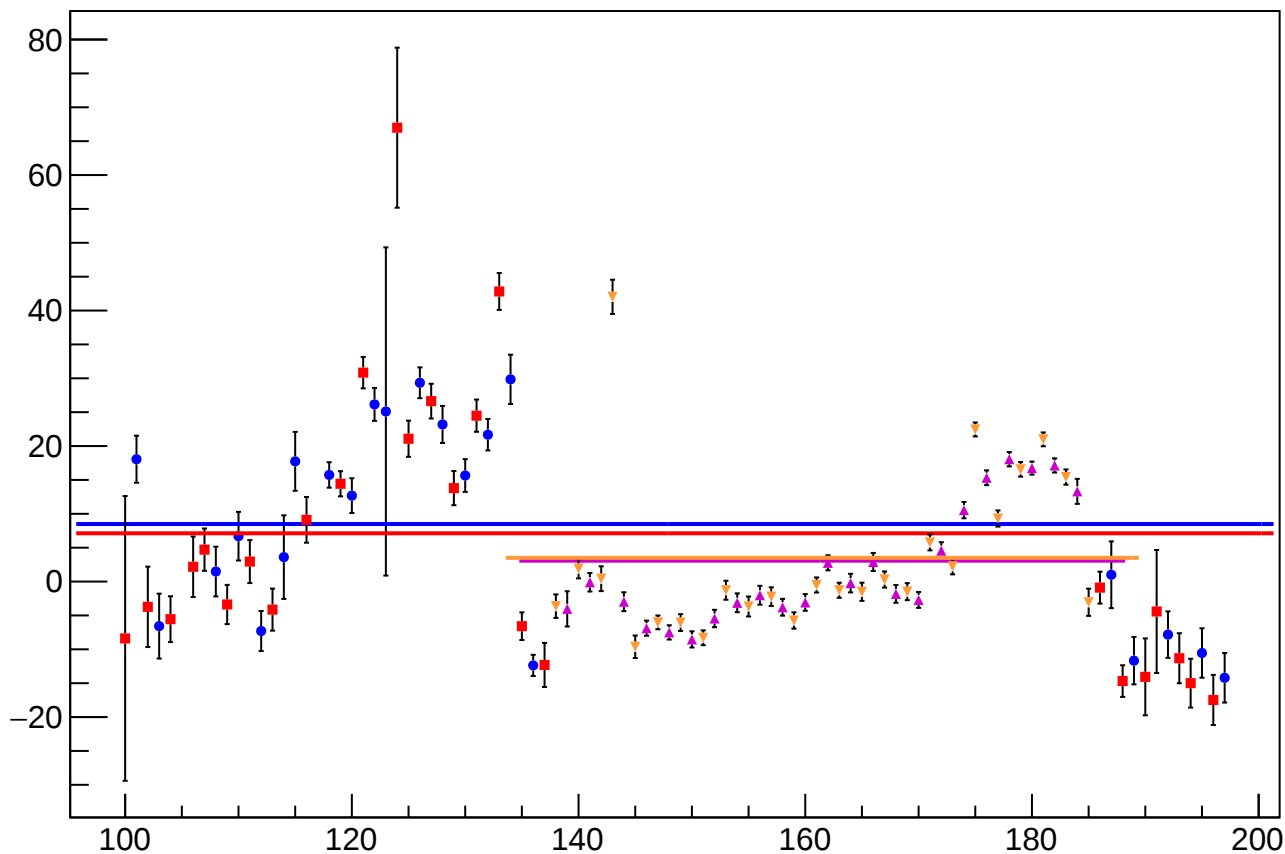
Right: 62.981 ± 0.420 χ^2/NDF : 4328.0/47

In: 44.530 ± 0.263 χ^2/NDF : 3300.5/44

Out: 47.205 ± 0.248 χ^2/NDF : 5642.1/50

All: 45.945 ± 0.181 χ^2/NDF : 8997.2/95

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.491 ± 0.620 χ^2/NDF : 616.9/21

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

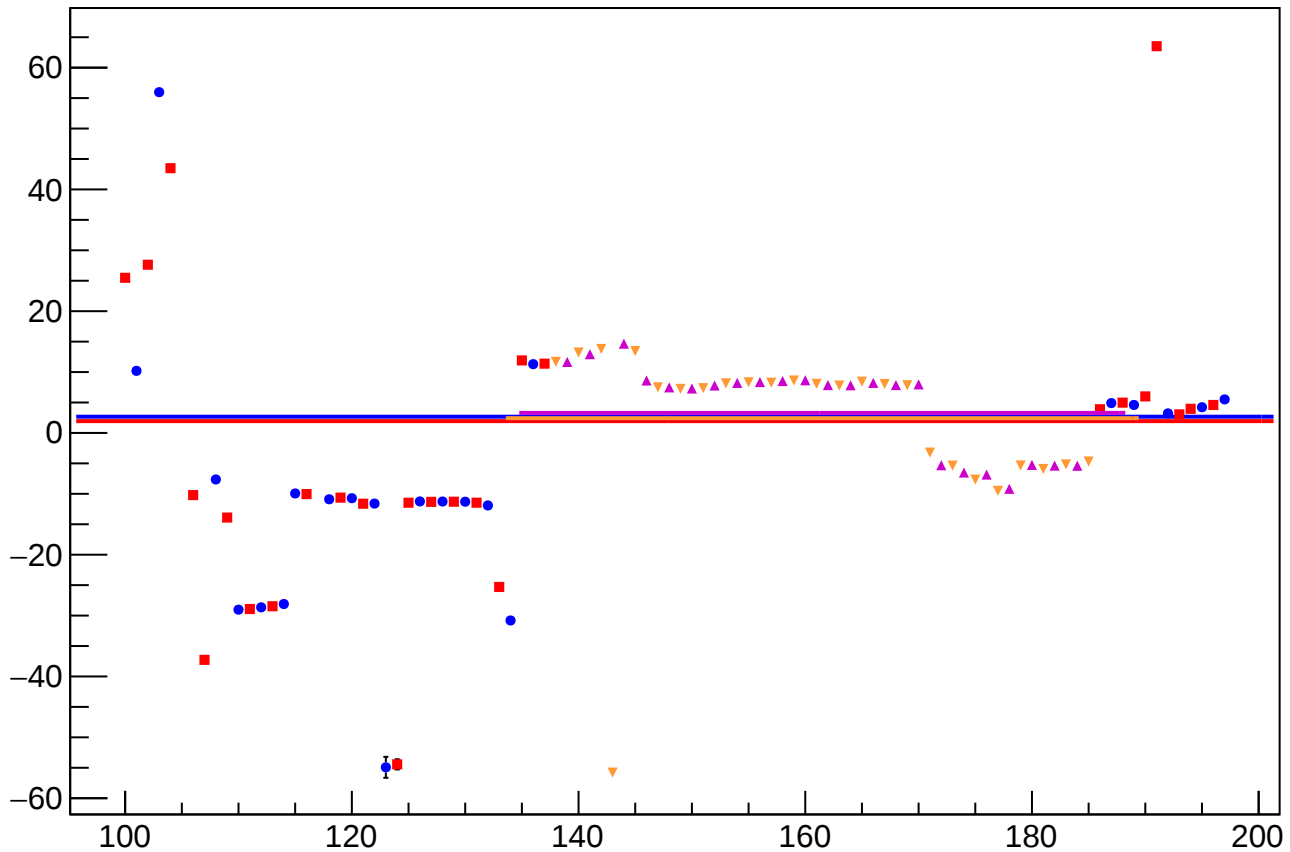
Right: 7.771 ± 0.427 χ^2/NDF : 1433.0/47

In: 3.876 ± 0.237 χ^2/NDF : 1947.7/44

Out: 4.067 ± 0.232 χ^2/NDF : 2536.7/50

All: 3.974 ± 0.166 χ^2/NDF : 4484.7/95

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.667 $\pm$ 0.031 χ^2 /NDF: 359187.2/21

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

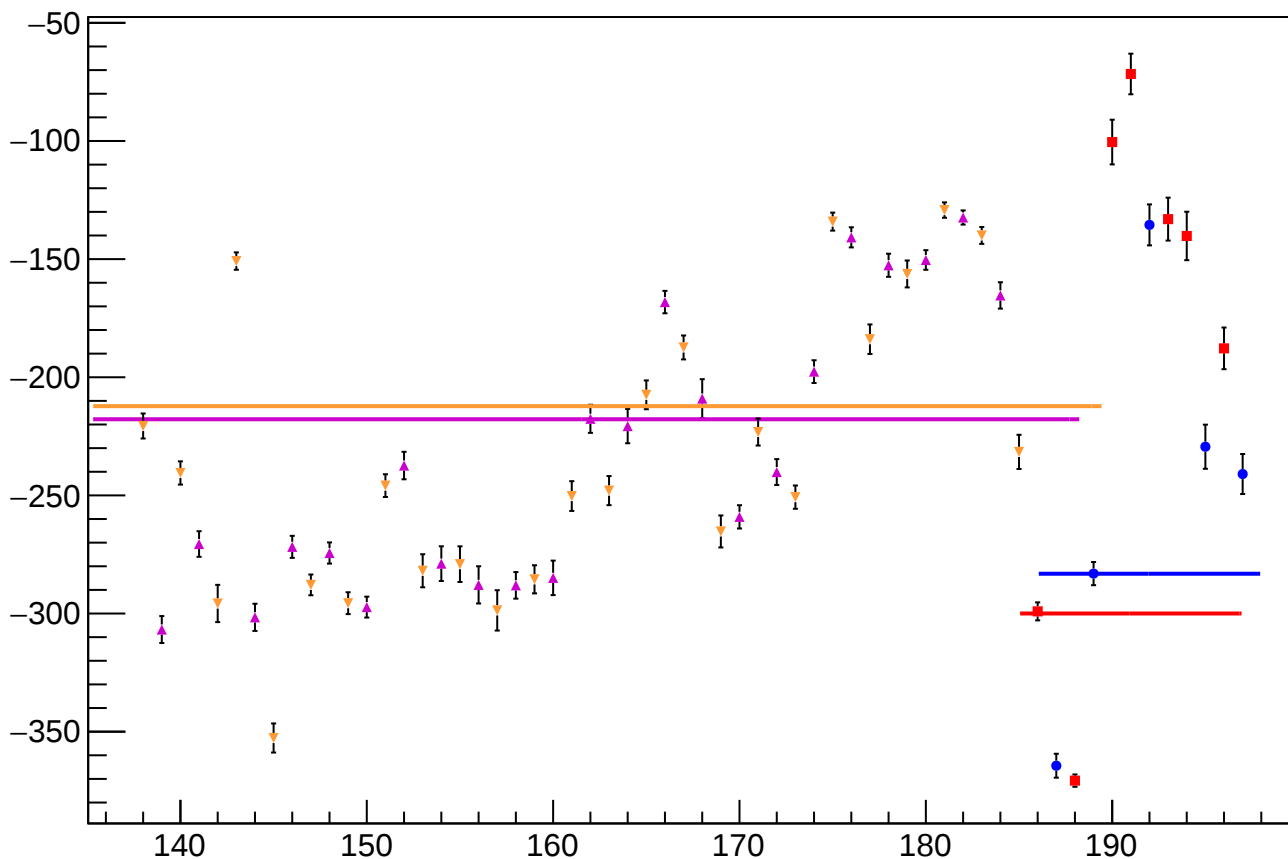
Right: 2.285 $\pm$ 0.022 χ^2 /NDF: 789011.1/47

In: 3.217 $\pm$ 0.011 χ^2 /NDF:763859.9/44

Out: 2.362 $\pm$ 0.011 χ^2 /NDF:1046154.5/50

All: 2.783 $\pm$ 0.008 χ^2 /NDF: 1813118.3/95

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -283.159 ± 2.894 $\chi^2/\text{NDF}: 605.7/4$

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 $\chi^2/\text{NDF}: 7338.3/47$

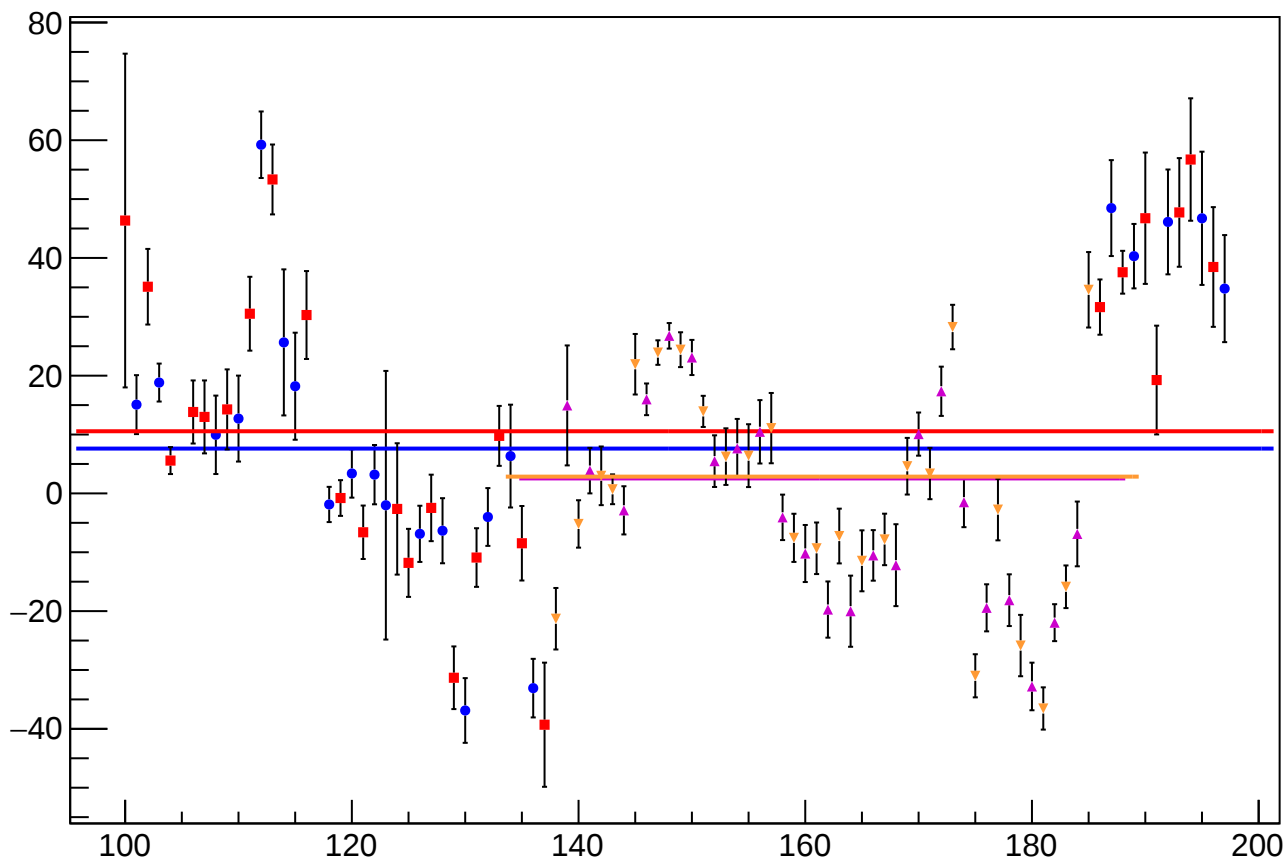
Right: -294.883 ± 1.593 $\chi^2/\text{NDF}: 3255.8/11$

In: -225.600 ± 1.001 $\chi^2/\text{NDF}: 4504.0/27$

Out: -232.011 ± 0.906 $\chi^2/\text{NDF}: 8139.8/31$

All: -229.124 ± 0.672 $\chi^2/\text{NDF}: 12666.4/59$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.613 ± 1.174 χ^2/NDF : 367.9/21

Left Out: 2.848 ± 0.775 χ^2/NDF : 582.1/24

Right Out: 10.557 ± 1.045 χ^2/NDF : 382.8/25

Left In: 2.540 ± 0.822 χ^2/NDF : 473.6/22

Left: 2.703 ± 0.564 χ^2/NDF : 1055.8/47

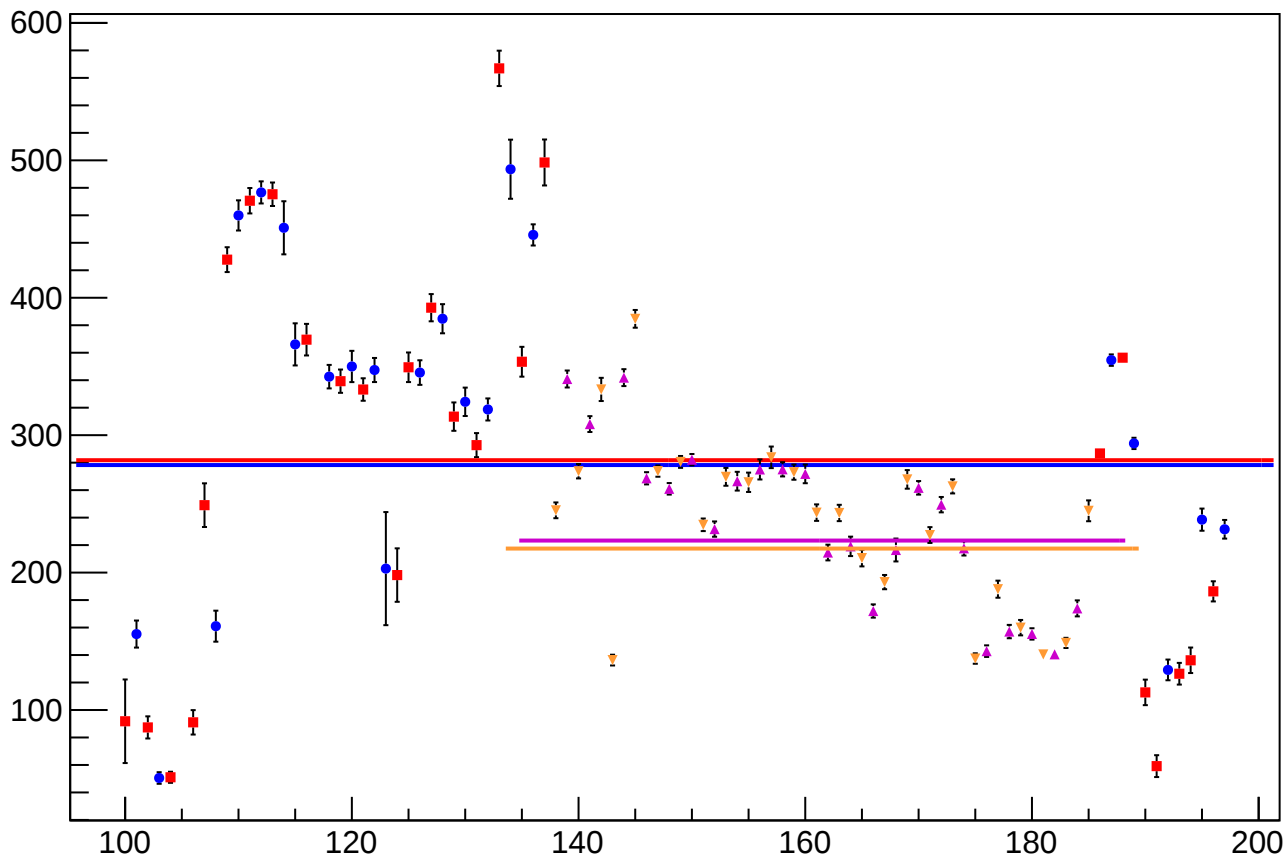
Right: 9.256 ± 0.780 χ^2/NDF : 754.2/47

In: 4.210 ± 0.674 χ^2/NDF : 854.0/44

Out: 5.583 ± 0.622 χ^2/NDF : 1000.1/50

All: 4.951 ± 0.457 χ^2/NDF : 1856.3/95

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 278.251+/-1.629 χ^2/NDF : 5912.2/21

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 281.785+/-1.251 χ^2/NDF : 9771.0/25

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

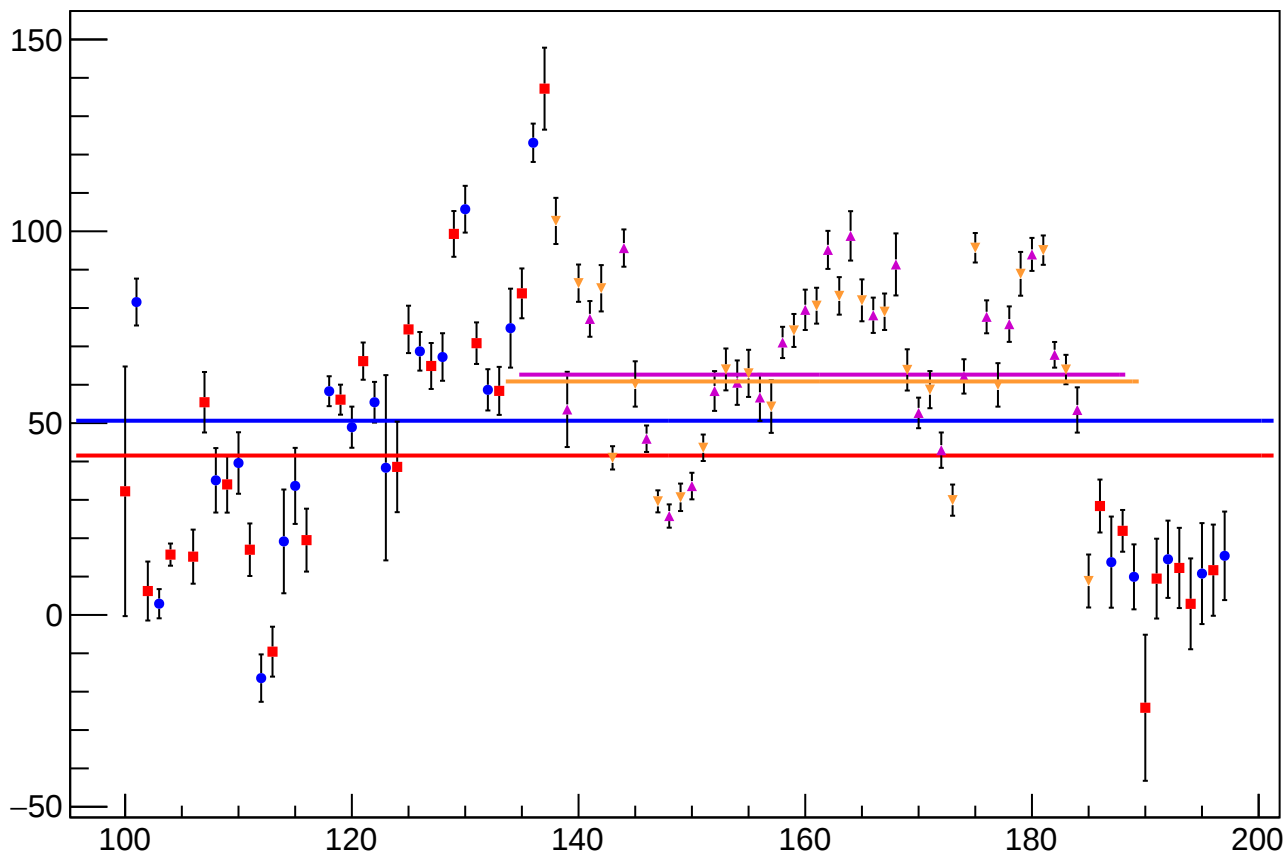
Right: 280.475+/-0.992 χ^2/NDF : 15686.1/47

In: 239.694+/-0.890 χ^2/NDF : 10088.5/44

Out: 243.537+/-0.796 χ^2/NDF : 15112.4/50

All: 241.828+/-0.593 χ^2/NDF : 25211.3/95

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 50.624 $\pm$ 1.379 χ^2 /NDF: 703.2/21

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

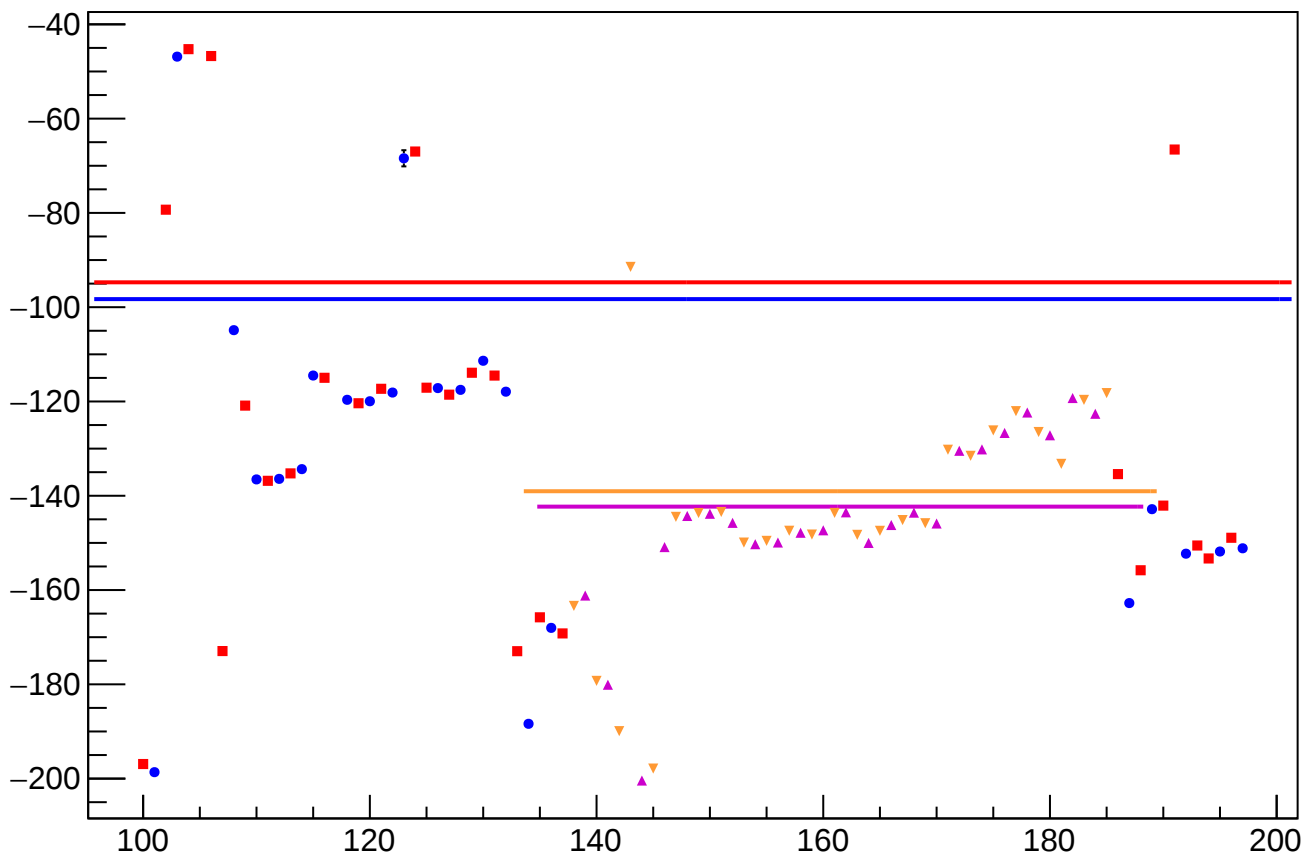
Right: 45.675 $\pm$ 0.929 χ^2 /NDF: 1326.7/47

In: 58.813 $\pm$ 0.778 χ^2 /NDF:1270.3/44

Out: 54.360 $\pm$ 0.730 χ^2 /NDF:1487.7/50

All: 56.445 $\pm$ 0.533 χ^2 /NDF: 2775.4/95

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -98.286 $\pm$ 0.063 χ^2 /NDF: 631001.2/21

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

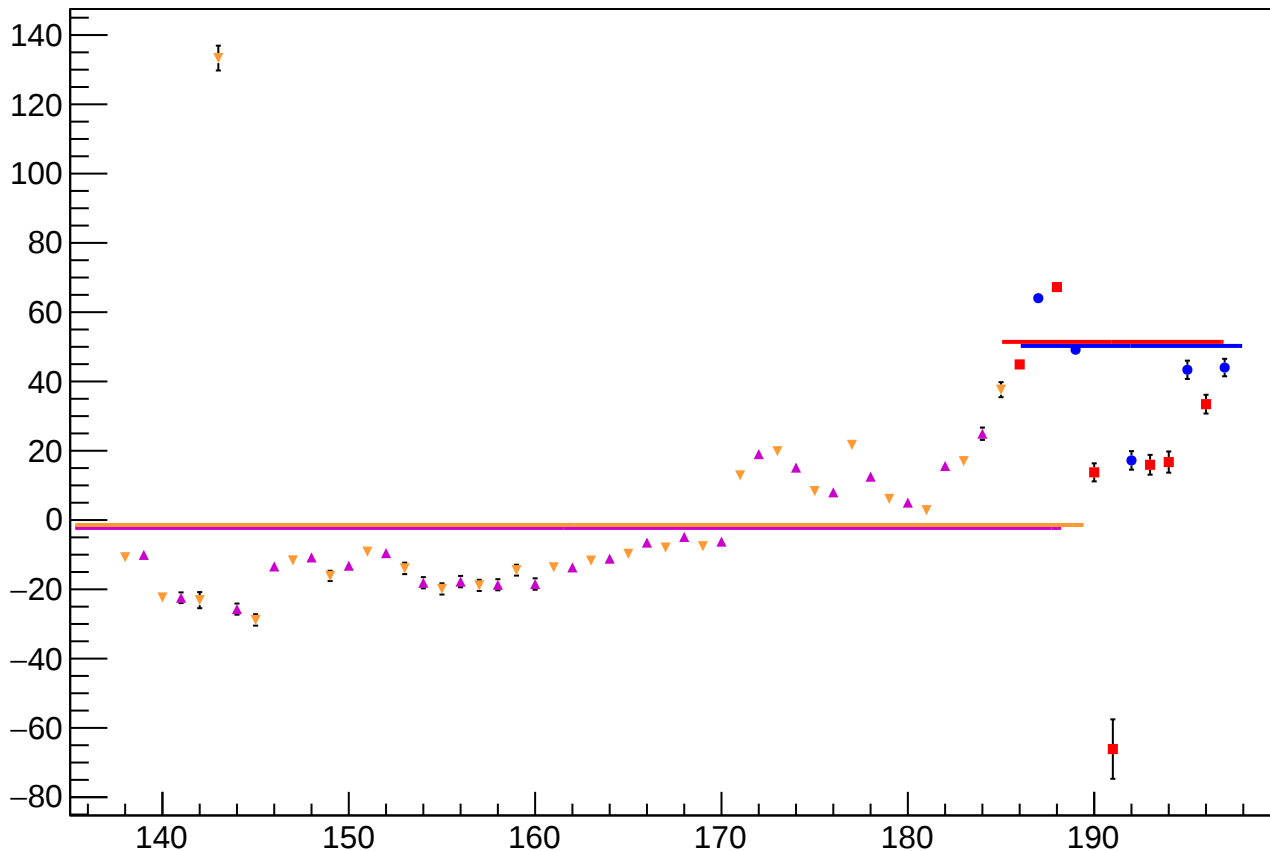
Right: -96.359 $\pm$ 0.043 χ^2 /NDF: 1295200.7/47

In: -127.977 $\pm$ 0.036 χ^2 /NDF:1098987.5/44

Out: -123.539 $\pm$ 0.035 χ^2 /NDF:1294404.1/50

All: -125.655 $\pm$ 0.025 χ^2 /NDF: 2401253.8/95

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.260+/-0.837 χ^2/NDF : 263.8/4

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

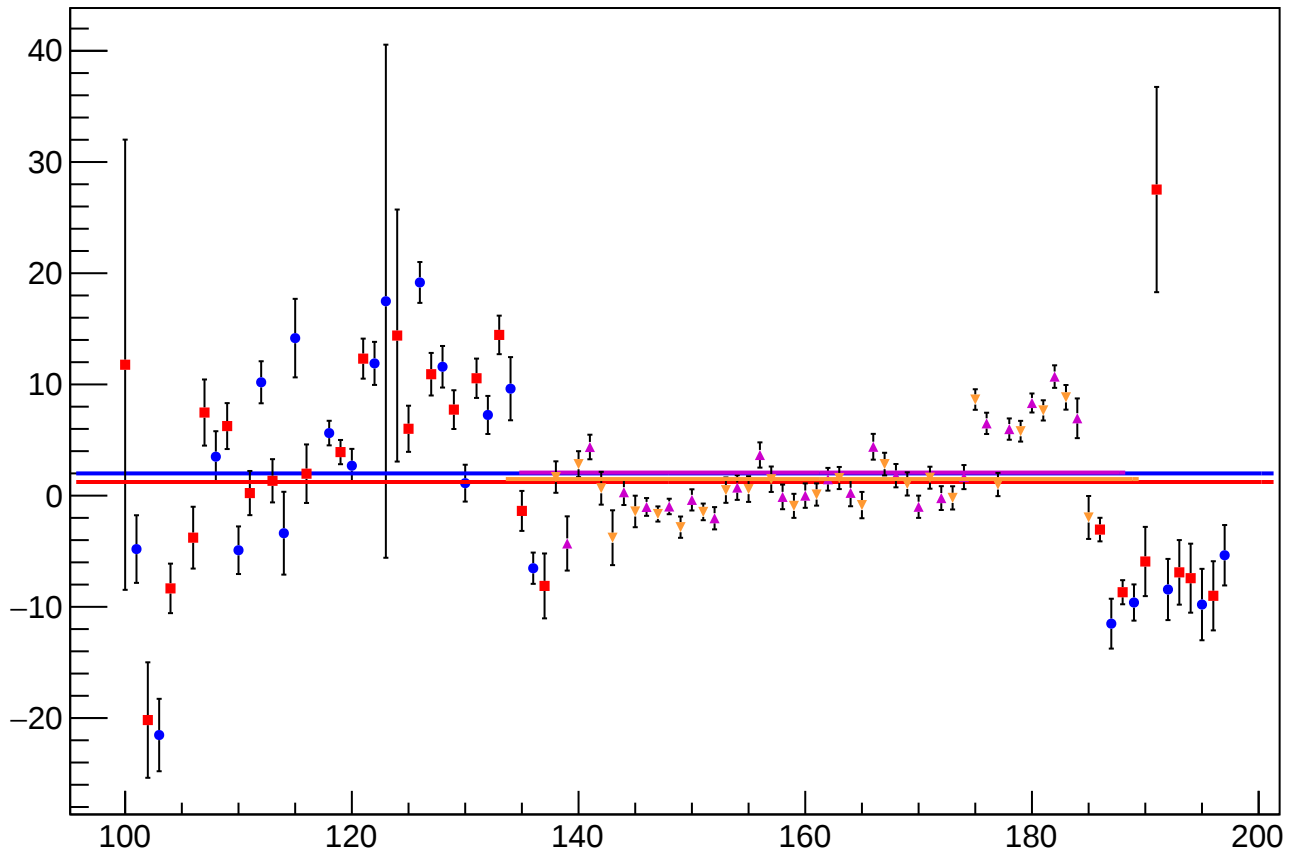
Right: 51.091+/-0.449 χ^2/NDF : 1463.4/11

In: 2.706+/-0.258 χ^2/NDF : 6351.5/27

Out: 9.245+/-0.239 χ^2/NDF : 13411.9/31

All: 6.219+/-0.175 χ^2/NDF : 20109.5/59

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.998 $\pm$ 0.429 χ^2 /NDF: 428.1/21

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

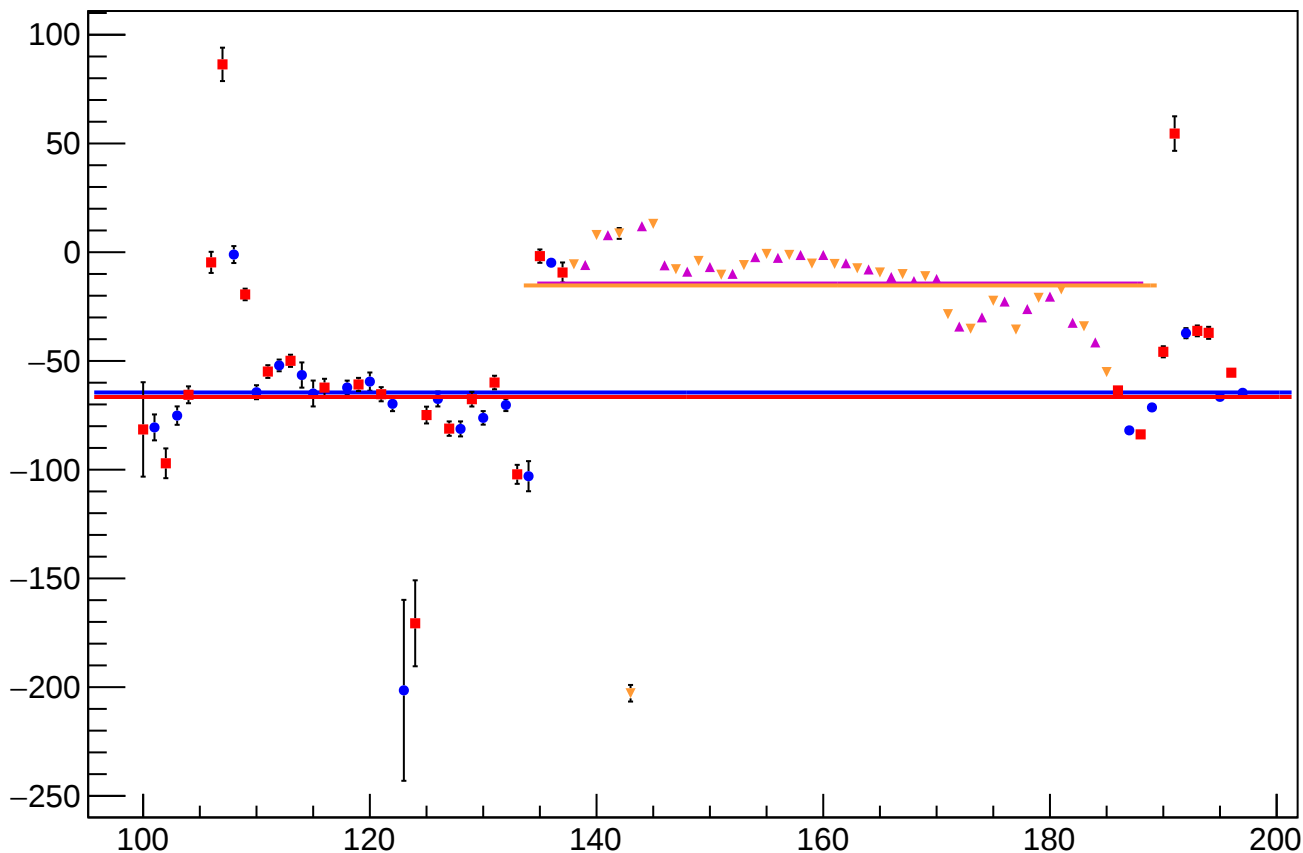
Right: 1.573 $\pm$ 0.288 χ^2 /NDF: 808.1/47

In: 2.059 $\pm$ 0.192 χ^2 /NDF:702.7/44

Out: 1.431 $\pm$ 0.185 χ^2 /NDF:637.7/50

All: 1.732 $\pm$ 0.133 χ^2 /NDF: 1345.9/95

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.489+/-0.543 χ^2/NDF : 1552.2/21

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

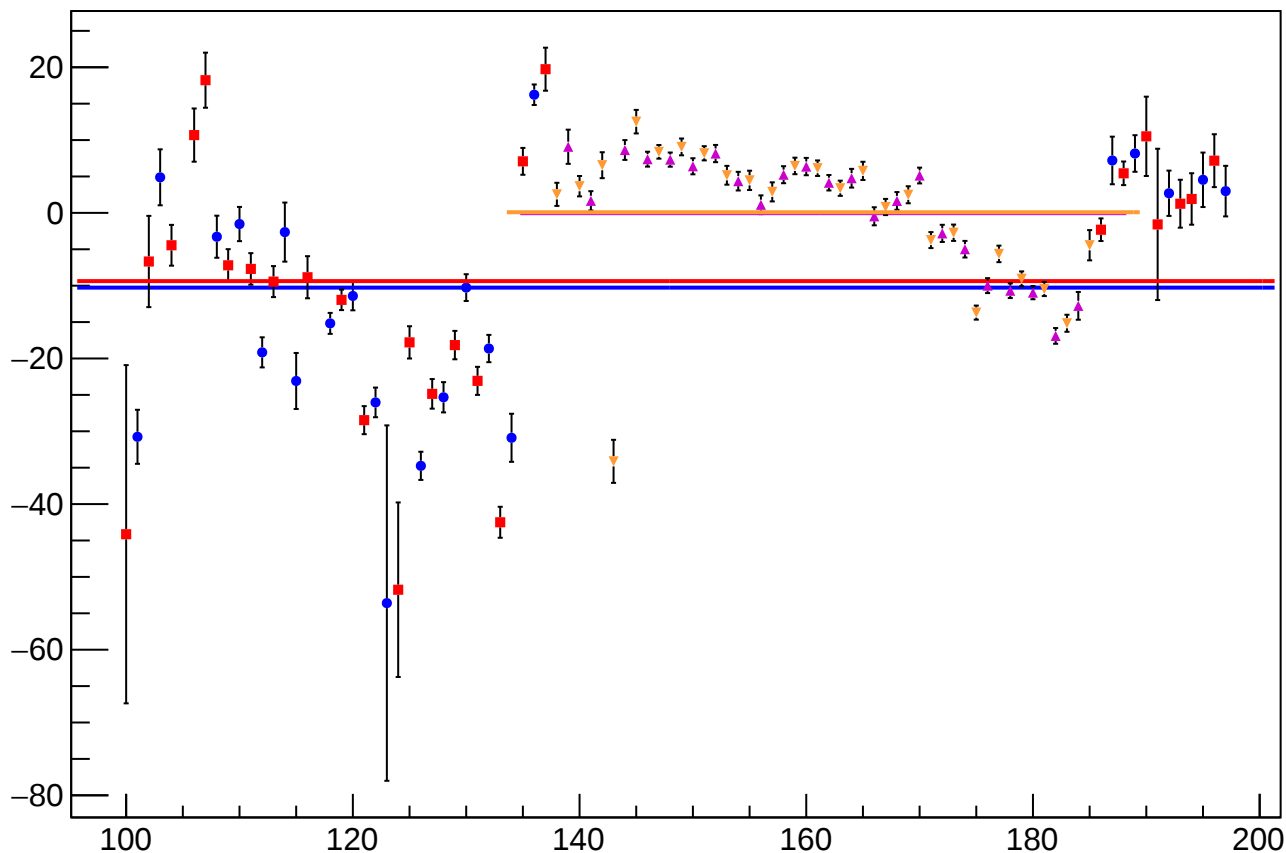
Right: -65.873+/-0.315 χ^2/NDF : 4599.9/47

In: -24.269+/-0.241 χ^2/NDF : 10405.7/44

Out: -31.815+/-0.220 χ^2/NDF : 19774.6/50

All: -28.394+/-0.162 χ^2/NDF : 30715.5/95

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.266 ± 0.502 χ^2/NDF : 928.3/21

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

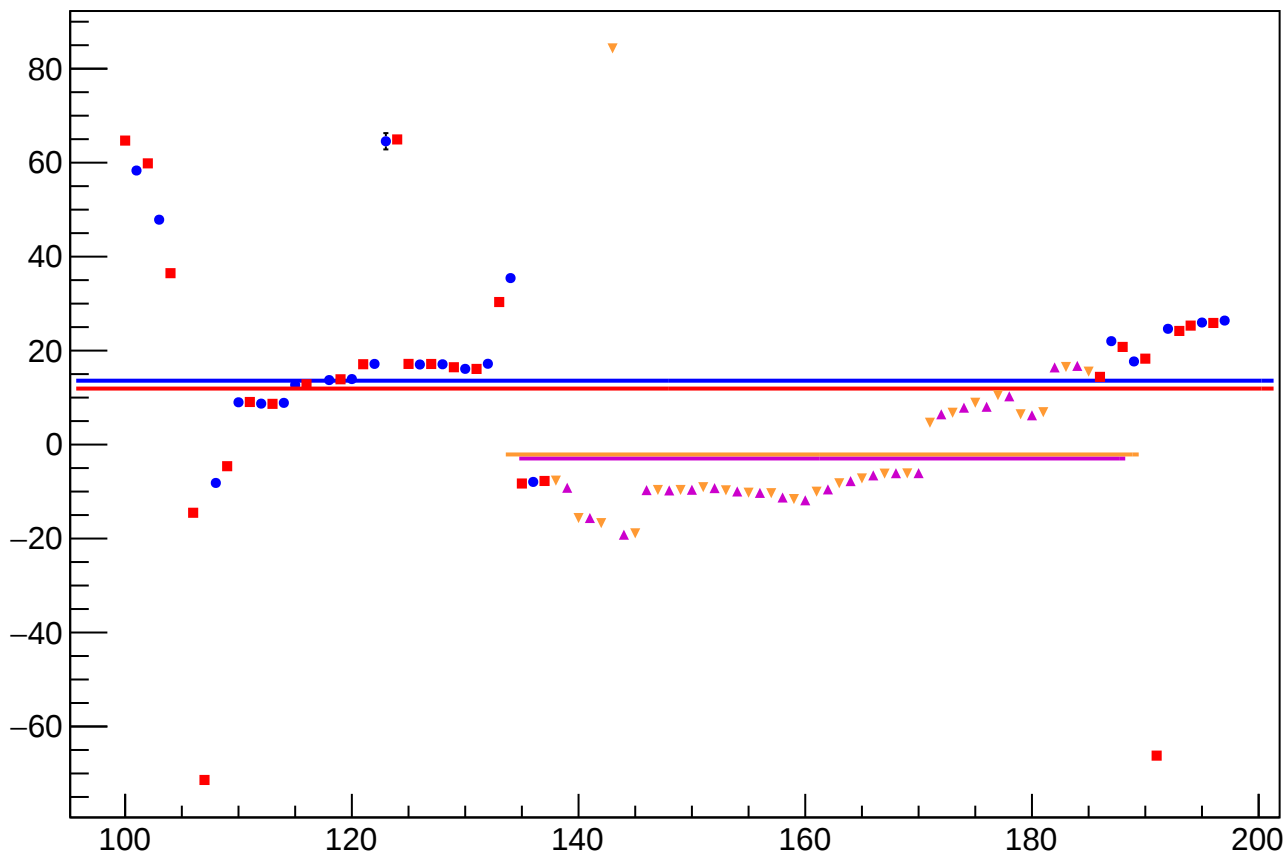
Right: -9.789 ± 0.343 χ^2/NDF : 1856.2/47

In: -1.986 ± 0.219 χ^2/NDF : 2292.5/44

Out: -1.849 ± 0.212 χ^2/NDF : 2421.1/50

All: -1.915 ± 0.152 χ^2/NDF : 4713.8/95

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 13.597 ± 0.027 $\chi^2/\text{NDF}: 430697.1/21$

Left Out: -2.105 ± 0.011 $\chi^2/\text{NDF}: 1093120.2/24$

Right Out: 11.921 ± 0.025 $\chi^2/\text{NDF}: 696014.9/25$

Left In: -2.959 ± 0.011 $\chi^2/\text{NDF}: 763000.9/22$

Left: -2.529 ± 0.008 $\chi^2/\text{NDF}: 1859155.7/47$

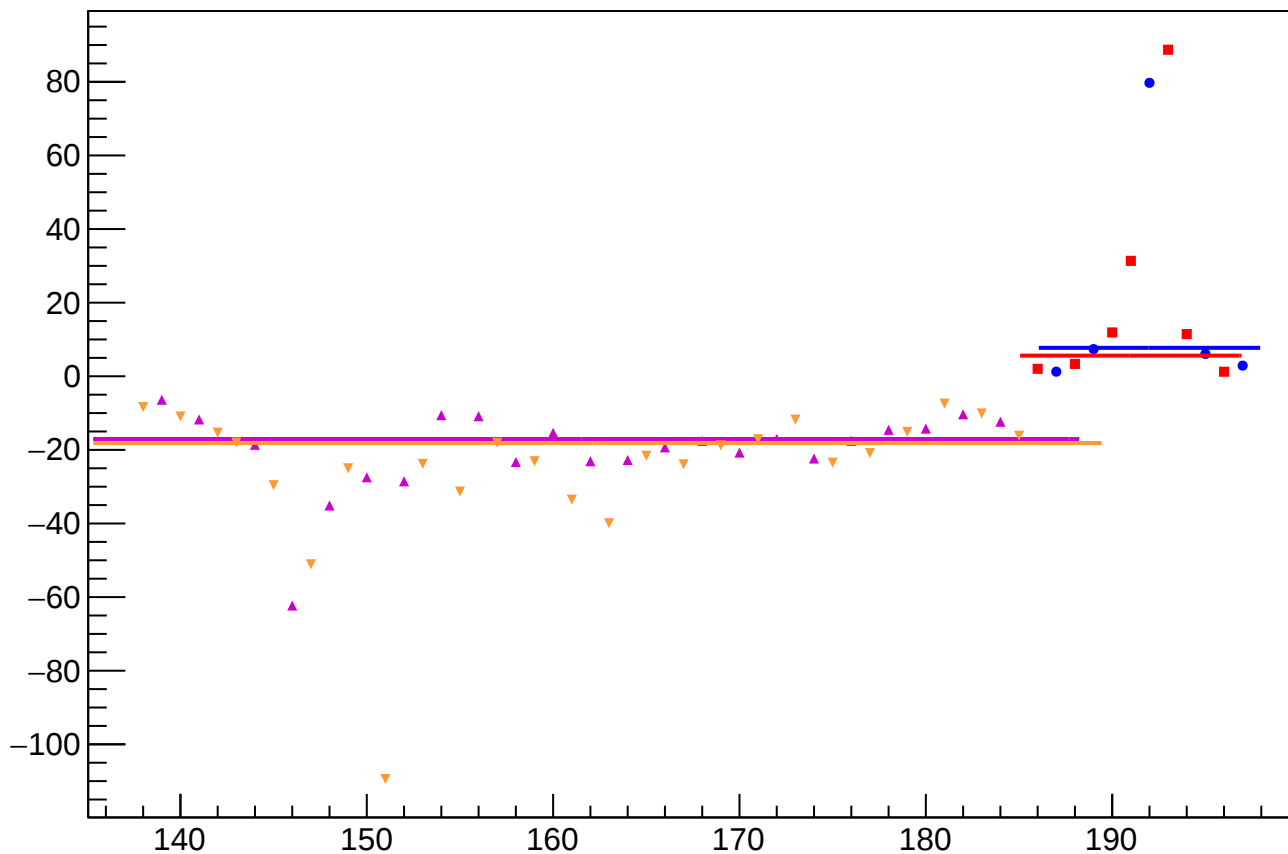
Right: 12.717 ± 0.018 $\chi^2/\text{NDF}: 1128785.0/47$

In: -0.552 ± 0.010 $\chi^2/\text{NDF}: 1522886.6/44$

Out: 0.088 ± 0.010 $\chi^2/\text{NDF}: 2047001.1/50$

All: -0.228 ± 0.007 $\chi^2/\text{NDF}: 3571898.6/95$

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.730+/-0.099 χ^2/NDF : 24291.9/4

Left Out: -18.128+/-0.039 χ^2/NDF : 88551.6/24

Right Out: 5.607+/-0.079 χ^2/NDF : 24826.9/6

Left In: -17.038+/-0.038 χ^2/NDF : 44141.1/22

Left: -17.572+/-0.027 χ^2/NDF : 133092.4/47

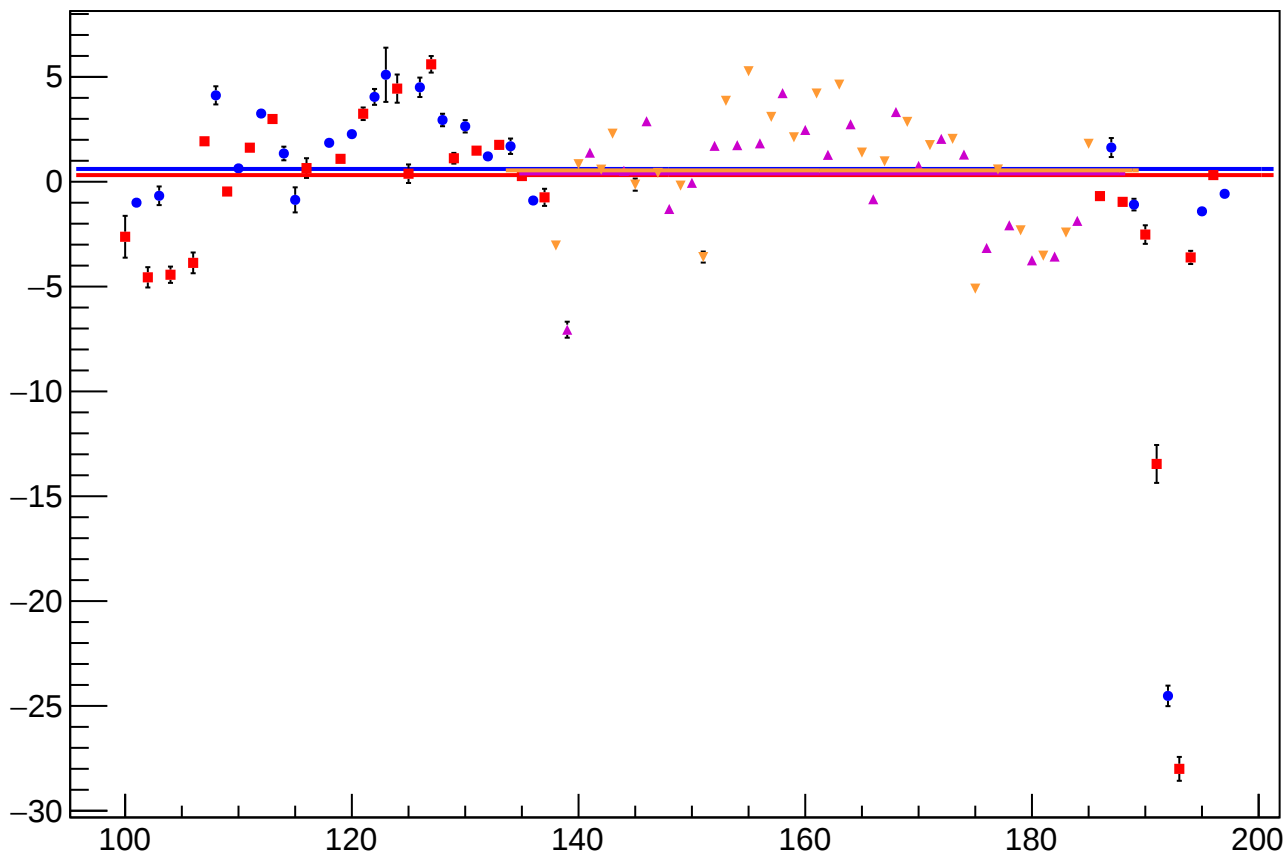
Right: 6.435+/-0.062 χ^2/NDF : 49401.2/11

In: -13.816+/-0.036 χ^2/NDF : 123267.5/27

Out: -13.480+/-0.035 χ^2/NDF : 186225.2/31

All: -13.645+/-0.025 χ^2/NDF : 309537.9/59

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.610 $\pm$ 0.054 χ^2 /NDF: 3618.8/21

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.317 $\pm$ 0.050 χ^2 /NDF: 4094.2/25

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

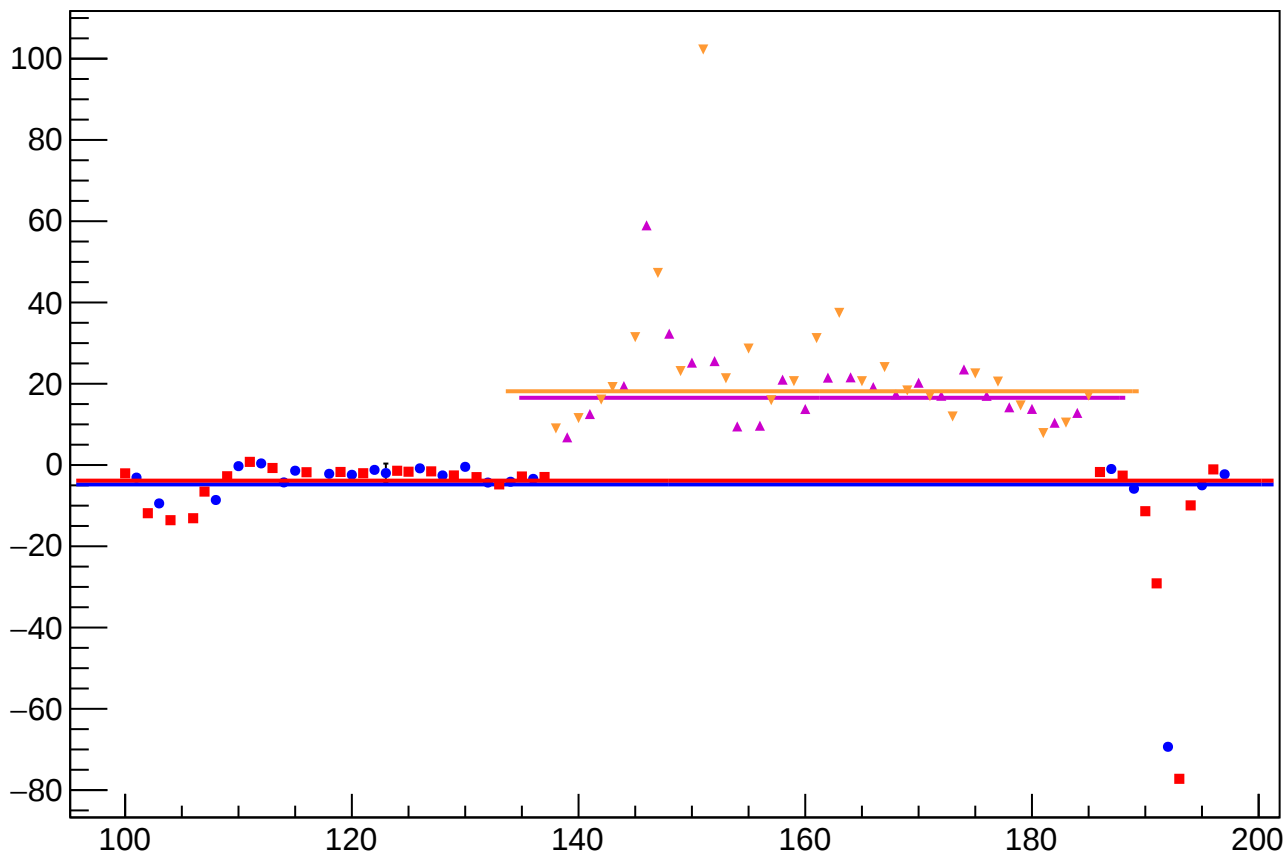
Right: 0.452 $\pm$ 0.037 χ^2 /NDF: 7728.6/47

In: 0.448 $\pm$ 0.027 χ^2 /NDF: 9866.0/44

Out: 0.477 $\pm$ 0.027 χ^2 /NDF: 11193.8/50

All: 0.462 $\pm$ 0.019 χ^2 /NDF: 21060.3/95

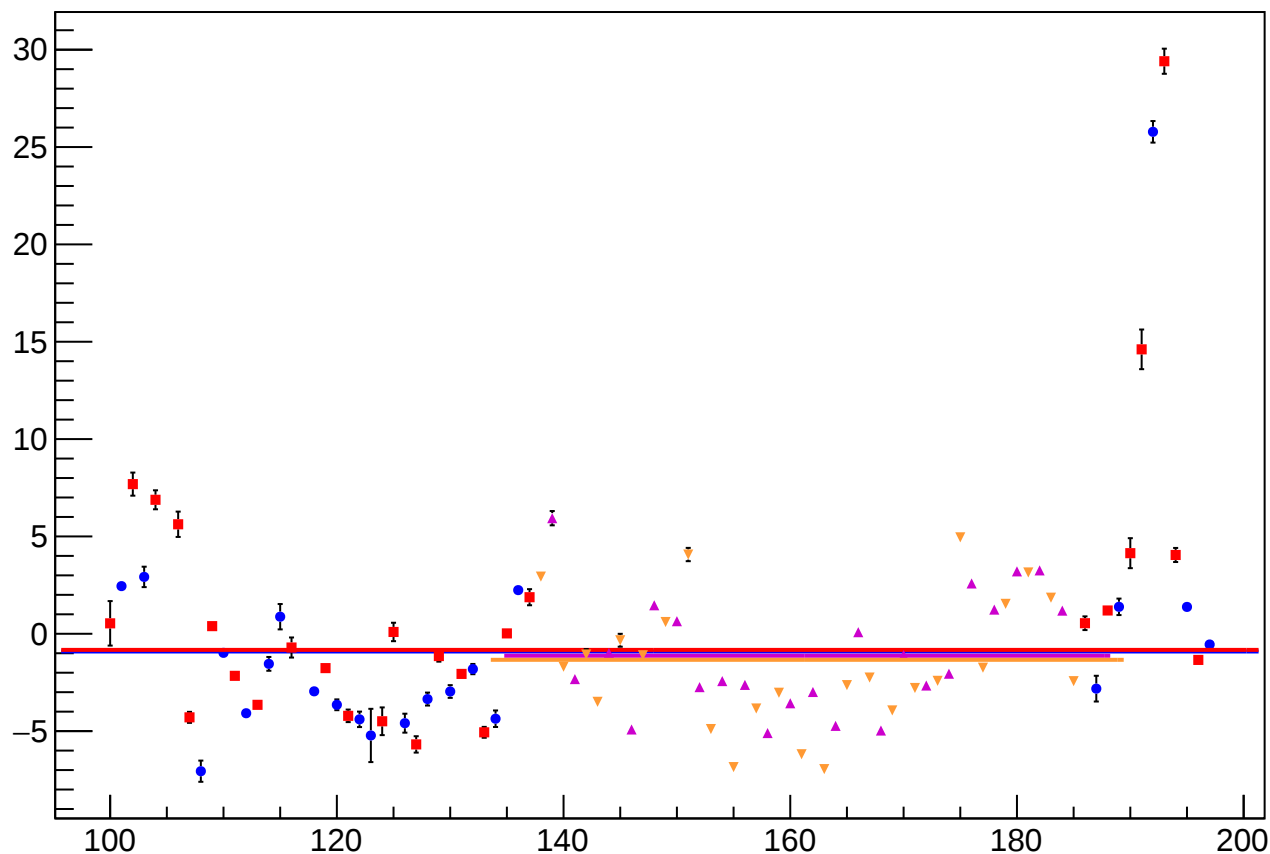
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.774 ± 0.066 $\chi^2/\text{NDF}: 25854.9/21$
 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: -4.218 ± 0.042 $\chi^2/\text{NDF}: 52279.8/47$
 In: 11.315 ± 0.033 $\chi^2/\text{NDF}: 144879.5/44$
 Out: 10.637 ± 0.032 $\chi^2/\text{NDF}: 212265.6/50$
 All: 10.965 ± 0.023 $\chi^2/\text{NDF}: 357365.5/95$

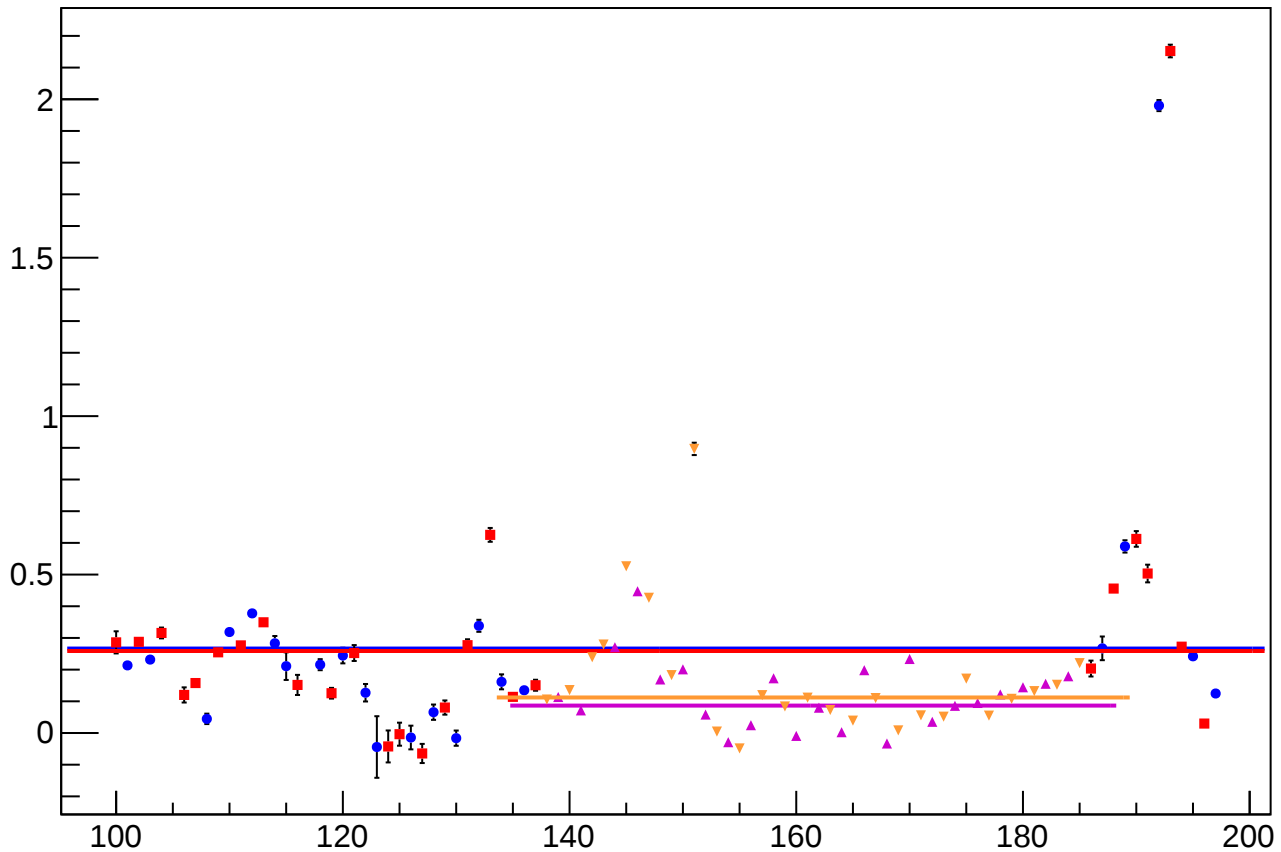
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.910 ± 0.064 $\chi^2/\text{NDF}: 3820.0/21$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -0.828 ± 0.059 $\chi^2/\text{NDF}: 4368.2/25$
 Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$
 Right: -0.865 ± 0.043 $\chi^2/\text{NDF}: 8189.0/47$
 In: -1.081 ± 0.030 $\chi^2/\text{NDF}: 10569.4/44$
 Out: -1.200 ± 0.031 $\chi^2/\text{NDF}: 12365.7/50$
 All: -1.139 ± 0.021 $\chi^2/\text{NDF}: 22942.9/95$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.266 $\pm$ 0.003 χ^2 /NDF: 11077.6/21

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

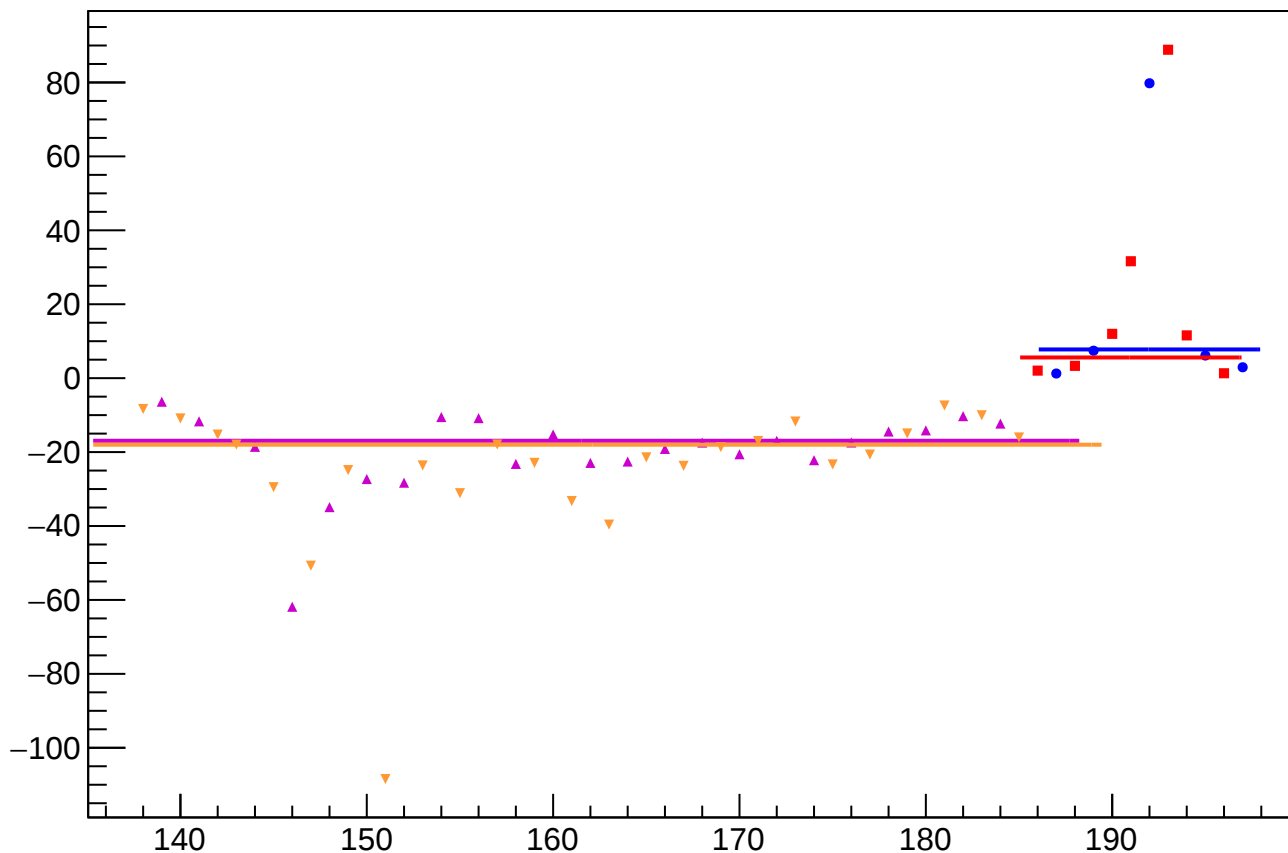
Right: 0.262 $\pm$ 0.002 χ^2 /NDF: 22612.8/47

In: 0.120 $\pm$ 0.001 χ^2 /NDF:17394.6/44

Out: 0.145 $\pm$ 0.001 χ^2 /NDF:17914.2/50

All: 0.132 $\pm$ 0.001 χ^2 /NDF: 35474.2/95

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



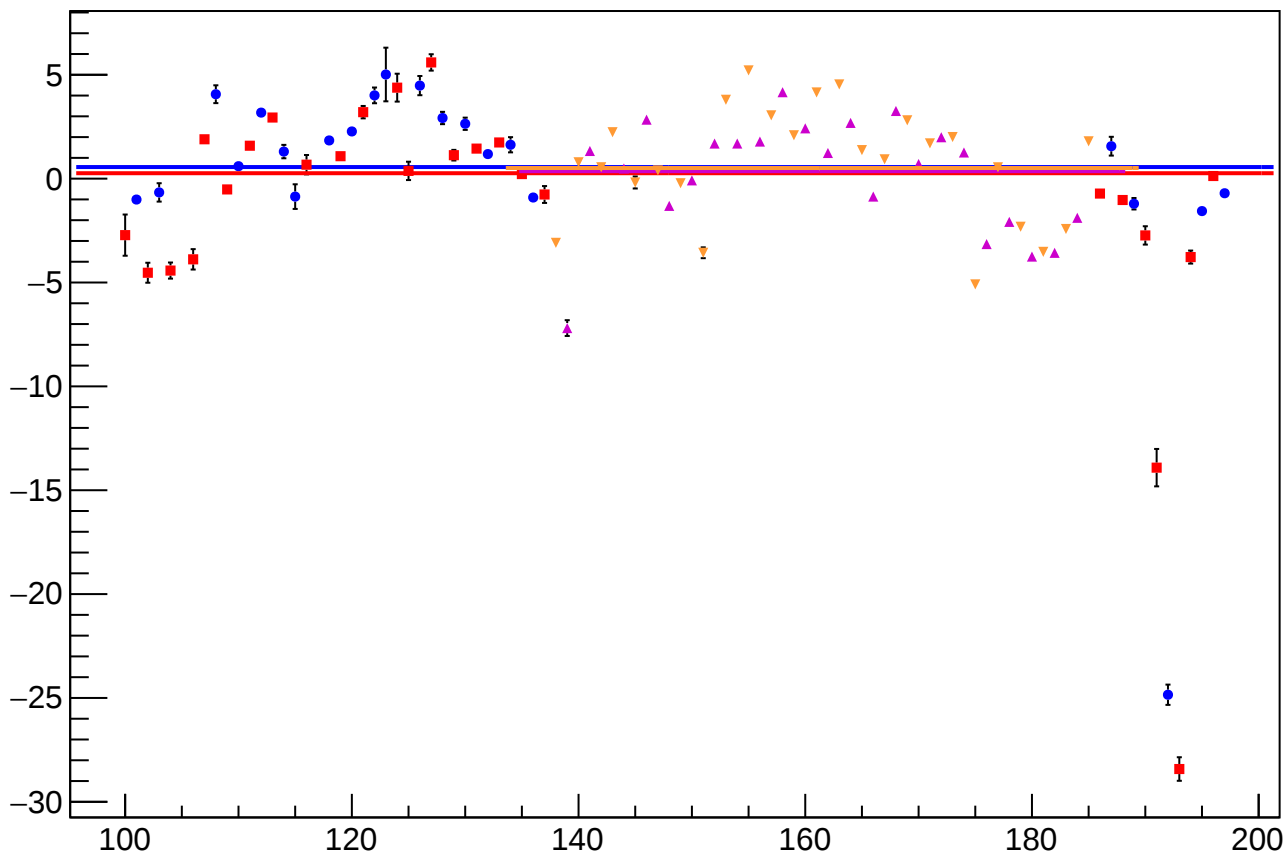
Right In: 7.772 ± 0.098 $\chi^2/\text{NDF}: 24477.3/4$
 Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$
 Right Out: 5.598 ± 0.078 $\chi^2/\text{NDF}: 25157.7/6$
 Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$
 Right: 6.440 ± 0.061 $\chi^2/\text{NDF}: 49935.1/11$

In: -13.732 ± 0.035 $\chi^2/\text{NDF}: 123611.0/27$
 Out: -13.365 ± 0.035 $\chi^2/\text{NDF}: 186888.6/31$

All: -13.545 ± 0.025 $\chi^2/\text{NDF}: 310554.4/59$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.558 ± 0.054 $\chi^2/\text{NDF}: 3725.7/21$

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 $\chi^2/\text{NDF}: 13303.2/47$

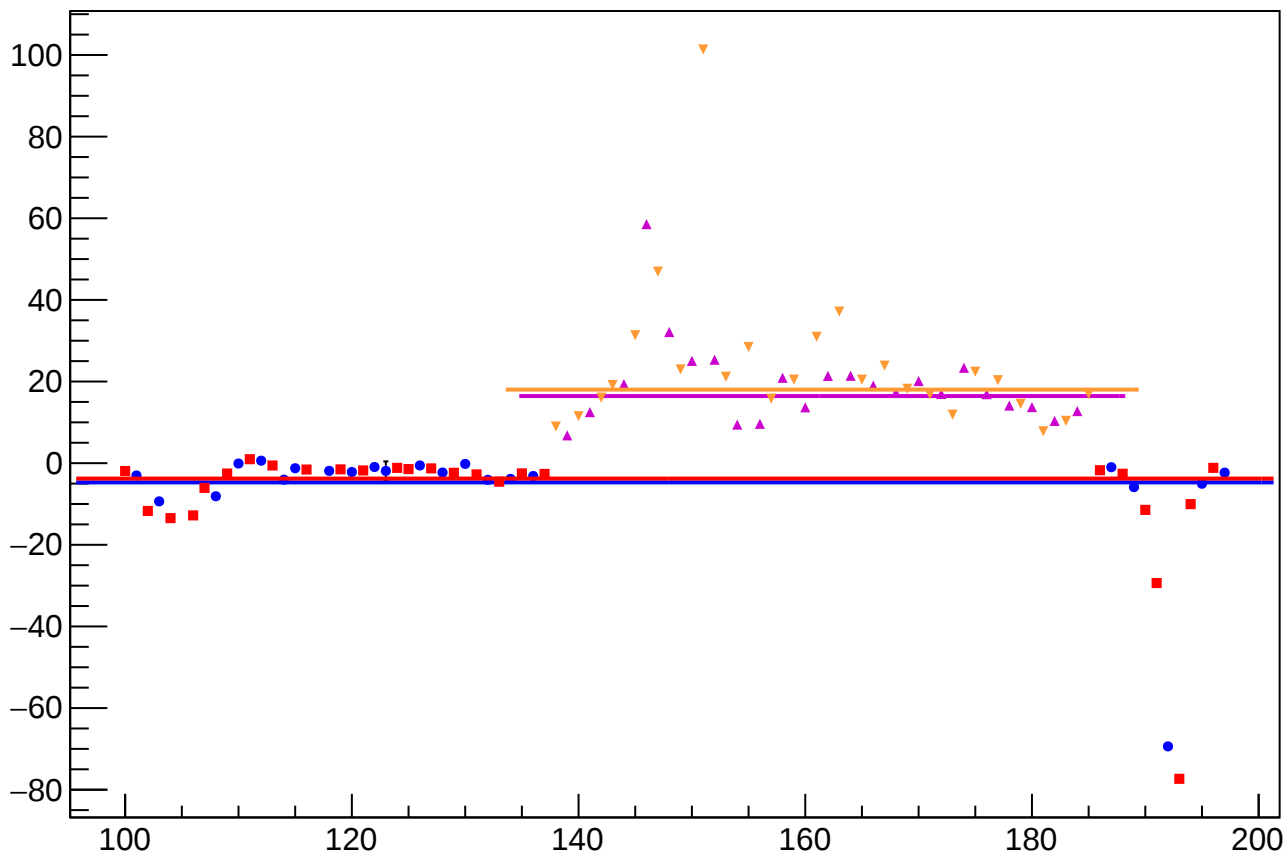
Right: 0.398 ± 0.037 $\chi^2/\text{NDF}: 7973.6/47$

In: 0.407 ± 0.027 $\chi^2/\text{NDF}: 9957.0/44$

Out: 0.438 ± 0.027 $\chi^2/\text{NDF}: 11319.8/50$

All: 0.423 ± 0.019 $\chi^2/\text{NDF}: 21277.4/95$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.714 ± 0.066 $\chi^2/\text{NDF}: 26156.9/21$

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 $\chi^2/\text{NDF}: 119360.0/47$

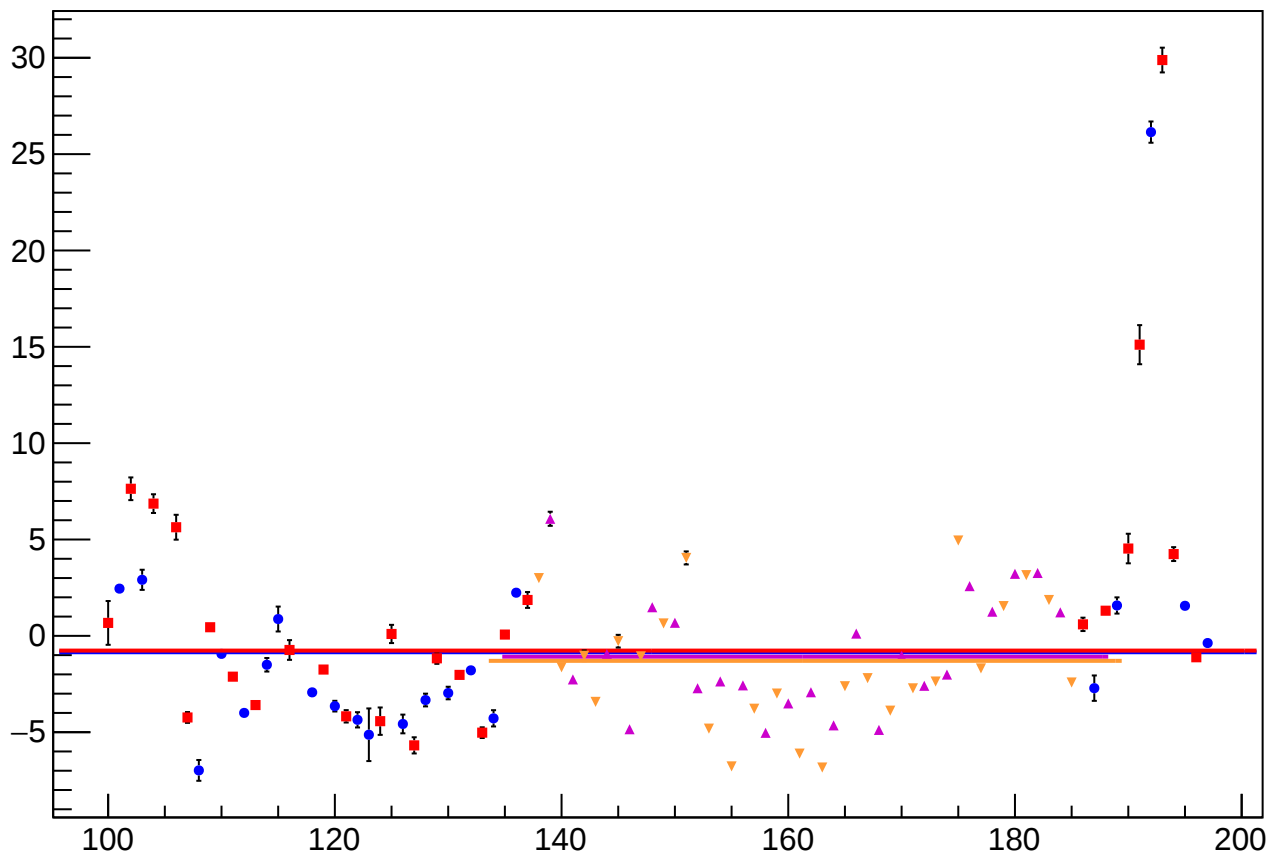
Right: -4.149 ± 0.042 $\chi^2/\text{NDF}: 52985.3/47$

In: 11.270 ± 0.033 $\chi^2/\text{NDF}: 144729.9/44$

Out: 10.568 ± 0.031 $\chi^2/\text{NDF}: 212317.3/50$

All: 10.906 ± 0.023 $\chi^2/\text{NDF}: 357286.9/95$

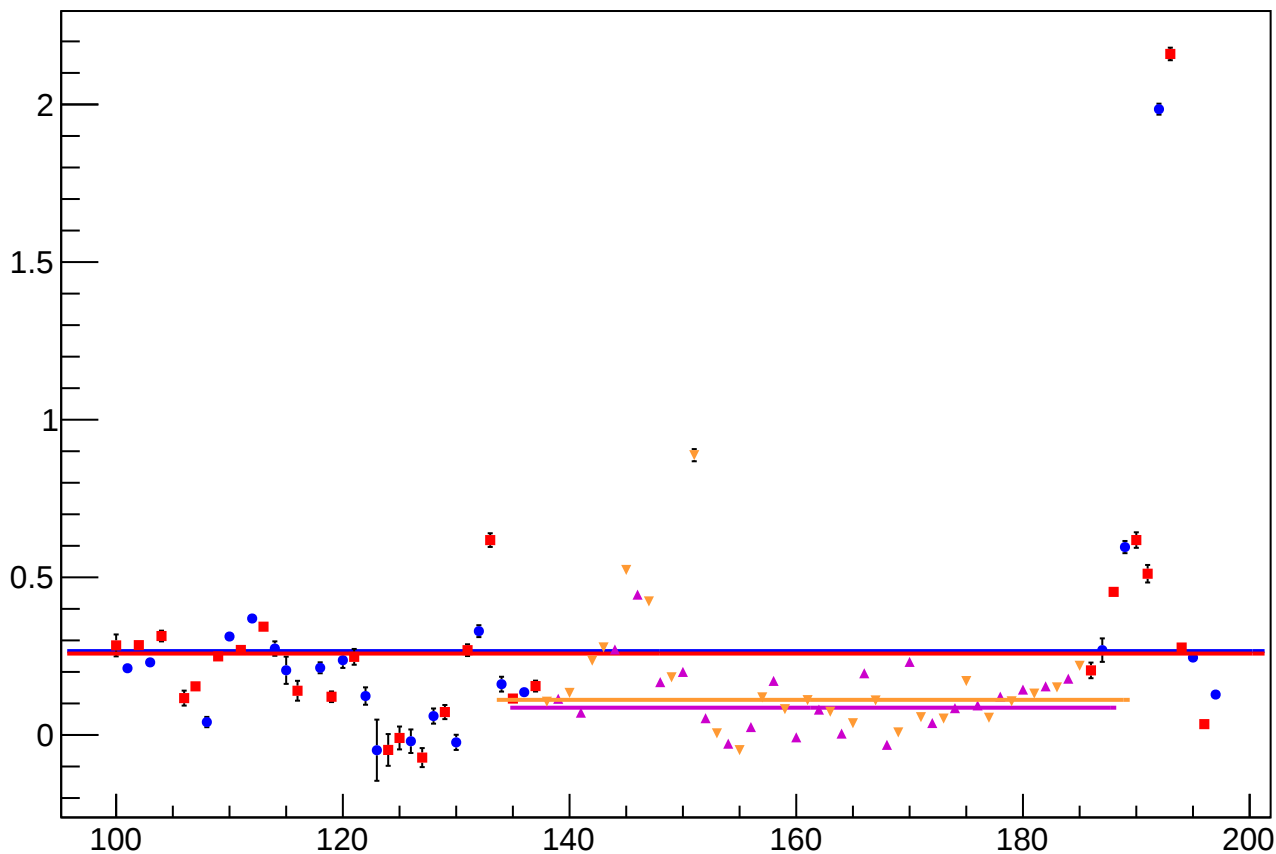
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.850 ± 0.064 $\chi^2/\text{NDF}: 3911.4/21$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.765 ± 0.059 $\chi^2/\text{NDF}: 4499.6/25$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.804 ± 0.043 $\chi^2/\text{NDF}: 8411.9/47$
 In: -1.030 ± 0.030 $\chi^2/\text{NDF}: 10645.8/44$
 Out: -1.154 ± 0.030 $\chi^2/\text{NDF}: 12484.7/50$
 All: -1.091 ± 0.021 $\chi^2/\text{NDF}: 23138.8/95$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.266 $\pm$ 0.003 χ^2/NDF : 11212.6/21

Left Out: 0.111 $\pm$ 0.002 χ^2/NDF : 4496.0/24

Right Out: 0.258 $\pm$ 0.003 χ^2/NDF : 11678.6/25

Left In: 0.087 $\pm$ 0.001 χ^2/NDF : 3625.5/22

Left: 0.098 $\pm$ 0.001 χ^2/NDF : 8251.9/47

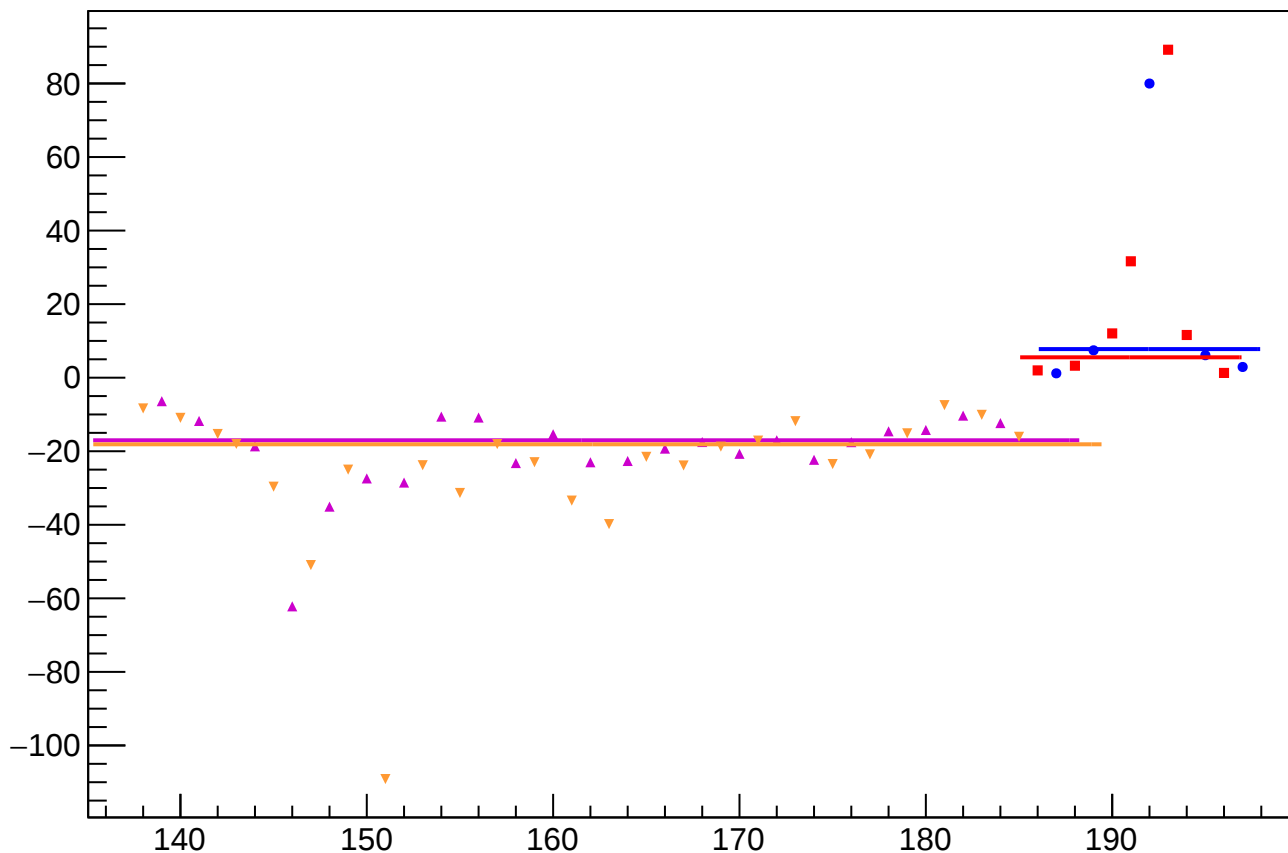
Right: 0.262 $\pm$ 0.002 χ^2/NDF : 22894.6/47

In: 0.120 $\pm$ 0.001 χ^2/NDF : 17513.7/44

Out: 0.144 $\pm$ 0.001 χ^2/NDF : 18075.5/50

All: 0.131 $\pm$ 0.001 χ^2/NDF : 35748.7/95

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.776 ± 0.099 $\chi^2/\text{NDF}: 24466.6/4$

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 $\chi^2/\text{NDF}: 133072.9/47$

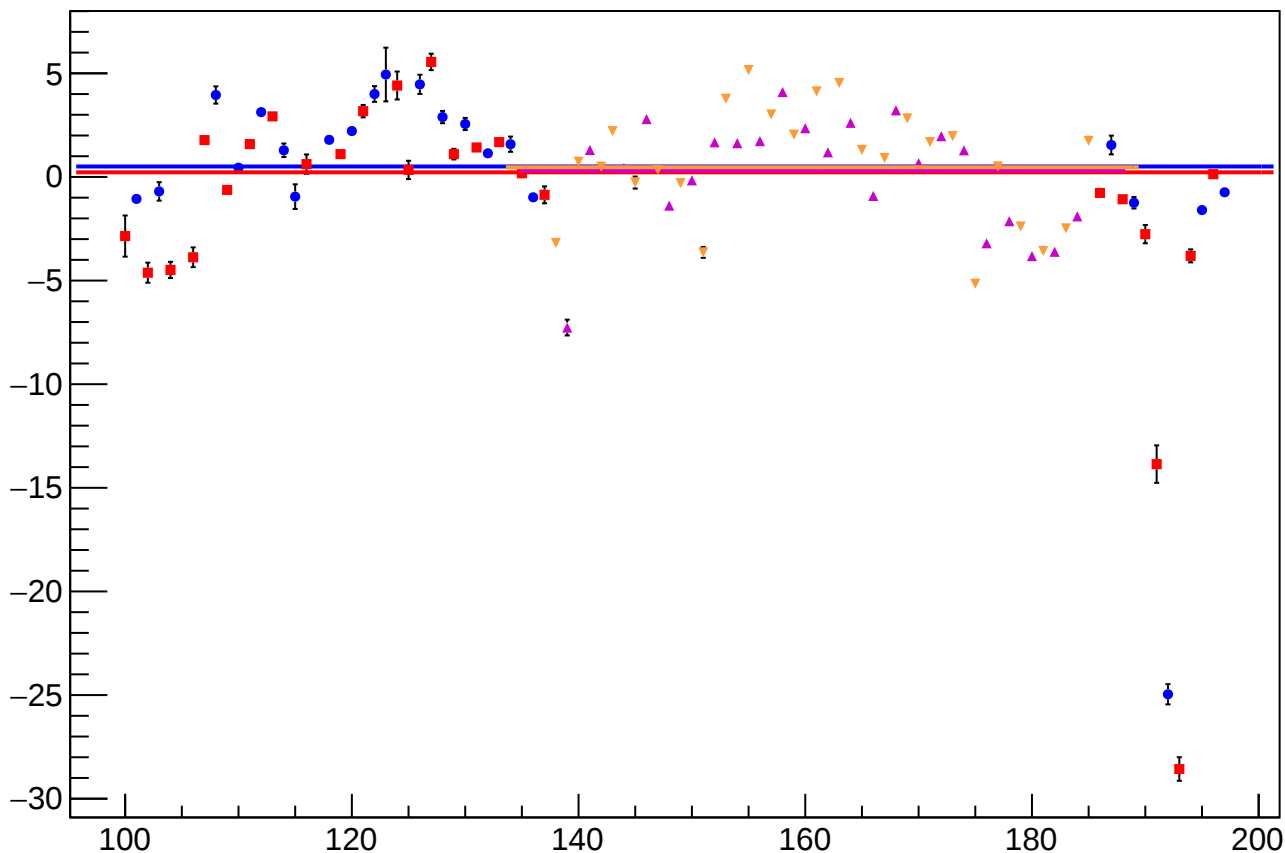
Right: 6.401 ± 0.061 $\chi^2/\text{NDF}: 49950.1/11$

In: -13.820 ± 0.036 $\chi^2/\text{NDF}: 123479.3/27$

Out: -13.436 ± 0.035 $\chi^2/\text{NDF}: 187146.4/31$

All: -13.624 ± 0.025 $\chi^2/\text{NDF}: 310685.6/59$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.505 $\pm$ 0.055 χ^2 /NDF: 3717.6/21

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.223 $\pm$ 0.050 χ^2 /NDF: 4230.1/25

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

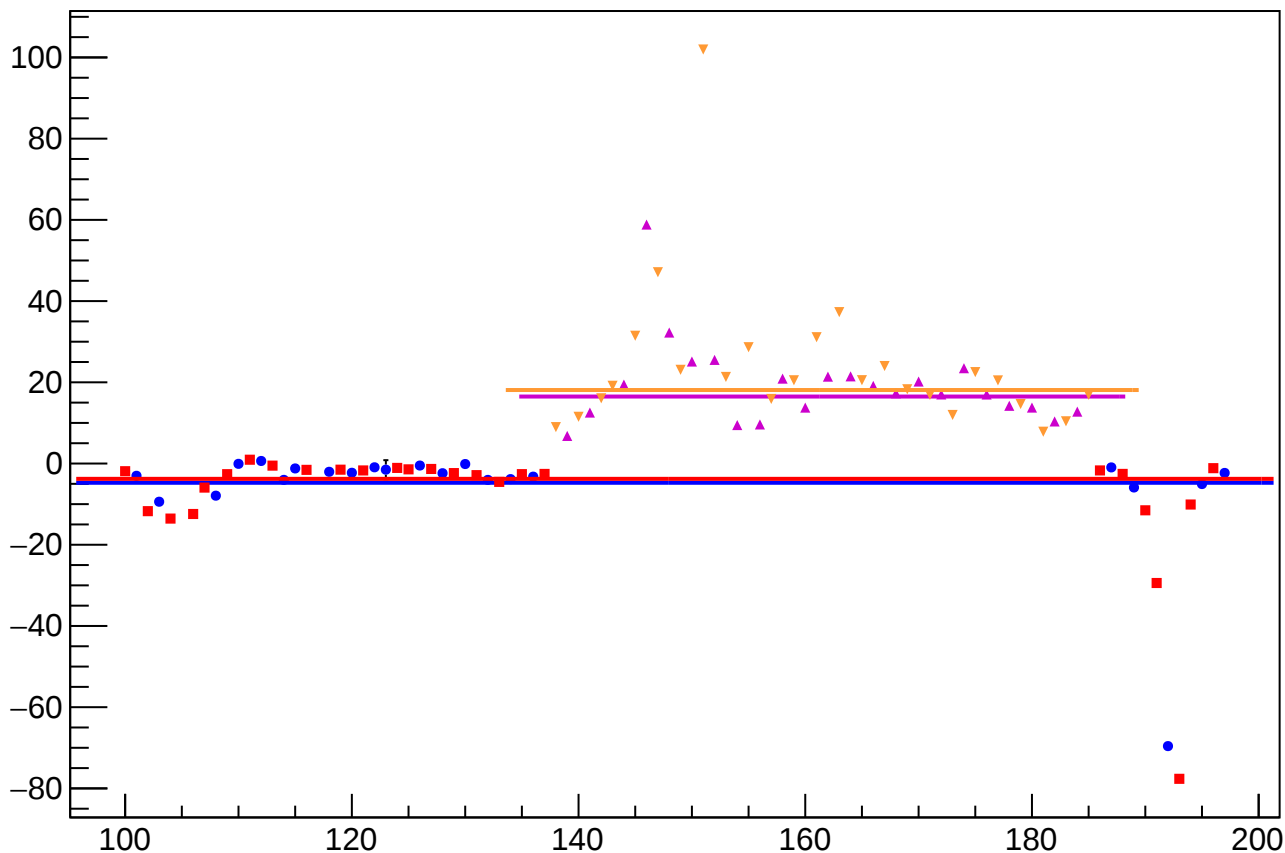
Right: 0.353 $\pm$ 0.037 χ^2 /NDF: 7962.1/47

In: 0.357 $\pm$ 0.027 χ^2 /NDF: 9910.3/44

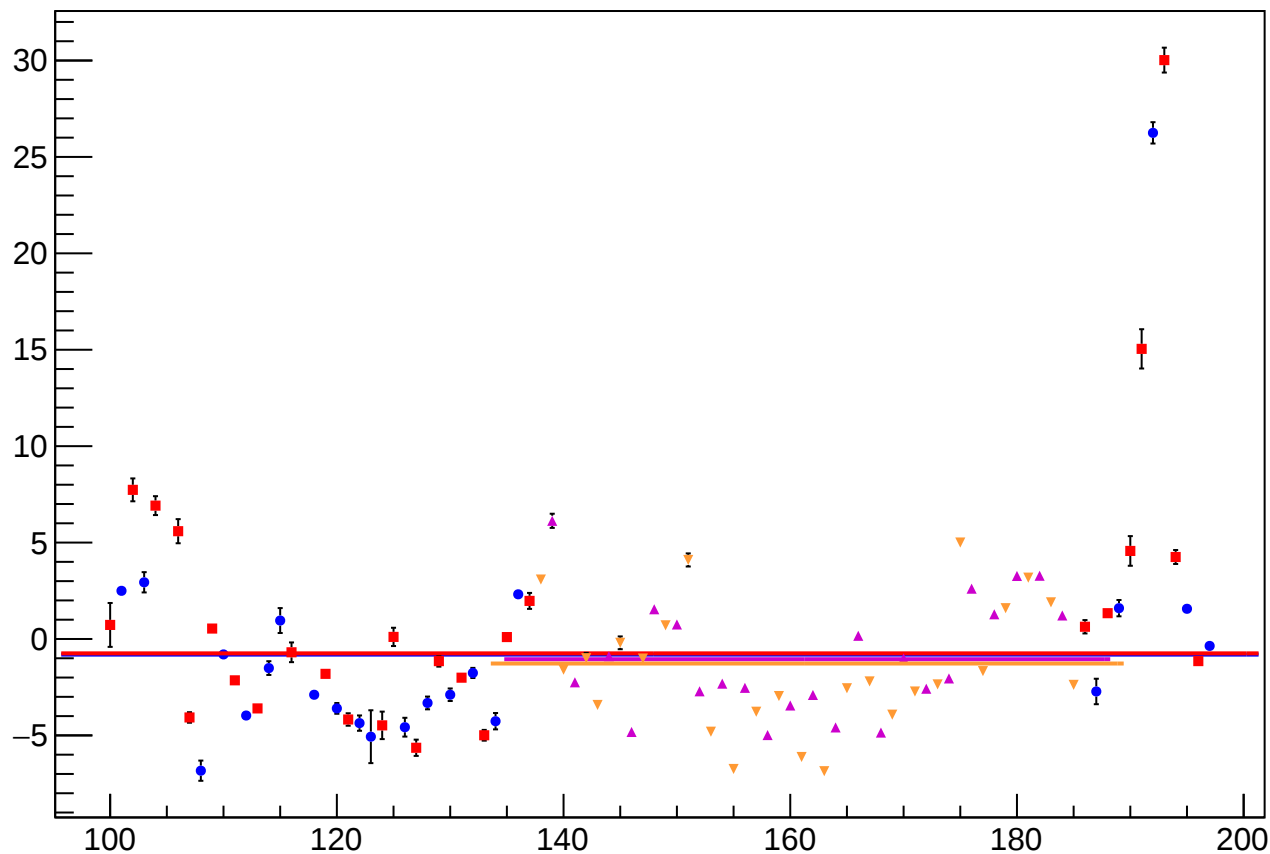
Out: 0.397 $\pm$ 0.027 χ^2 /NDF: 11340.1/50

All: 0.377 $\pm$ 0.019 χ^2 /NDF: 21251.5/95

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



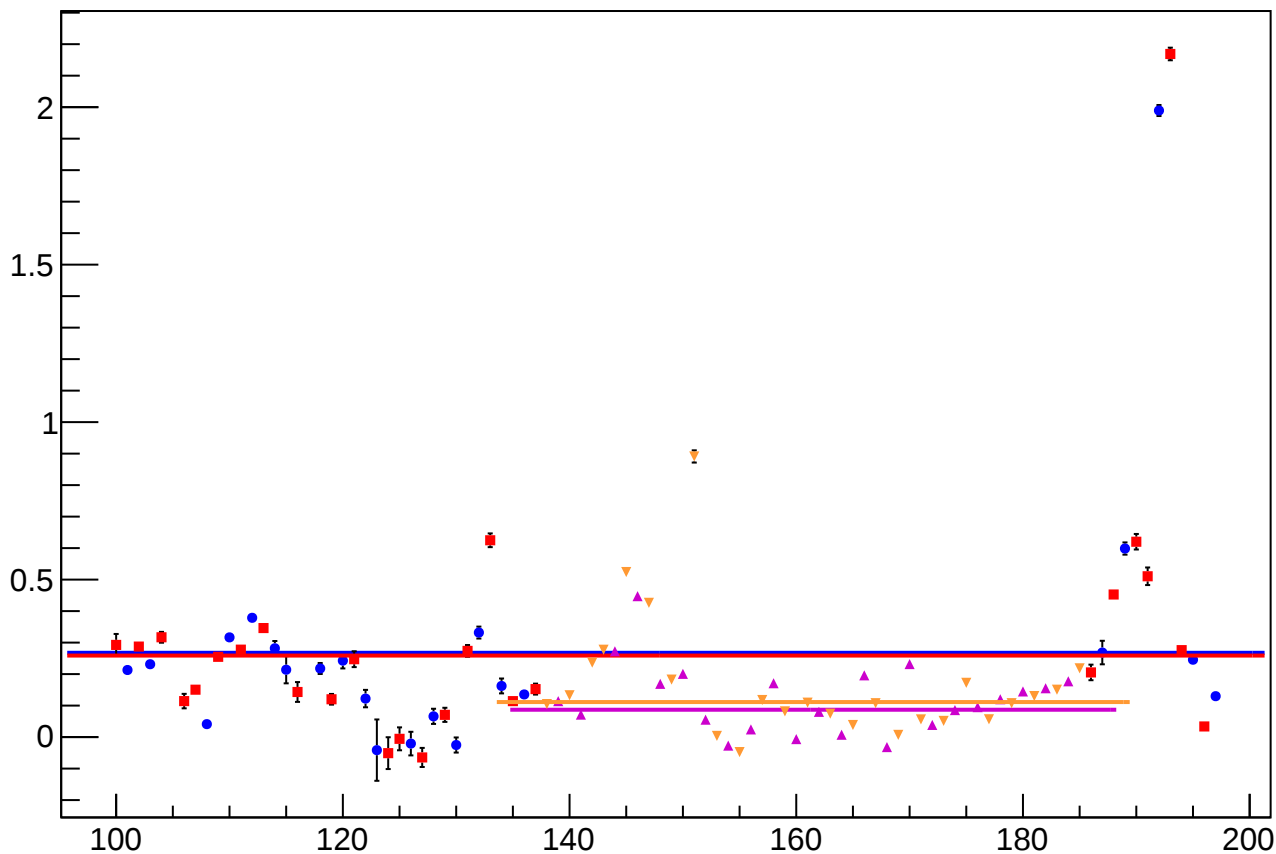
reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.810 ± 0.064 $\chi^2/\text{NDF}: 3905.2/21$
 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: -0.775 ± 0.043 $\chi^2/\text{NDF}: 8407.1/47$
 In: -0.997 ± 0.030 $\chi^2/\text{NDF}: 10589.7/44$
 Out: -1.131 ± 0.031 $\chi^2/\text{NDF}: 12511.5/50$
 All: -1.063 ± 0.021 $\chi^2/\text{NDF}: 23110.8/95$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.268 ± 0.003 $\chi^2/\text{NDF}: 11205.9/21$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.259 ± 0.003 $\chi^2/\text{NDF}: 11694.9/25$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

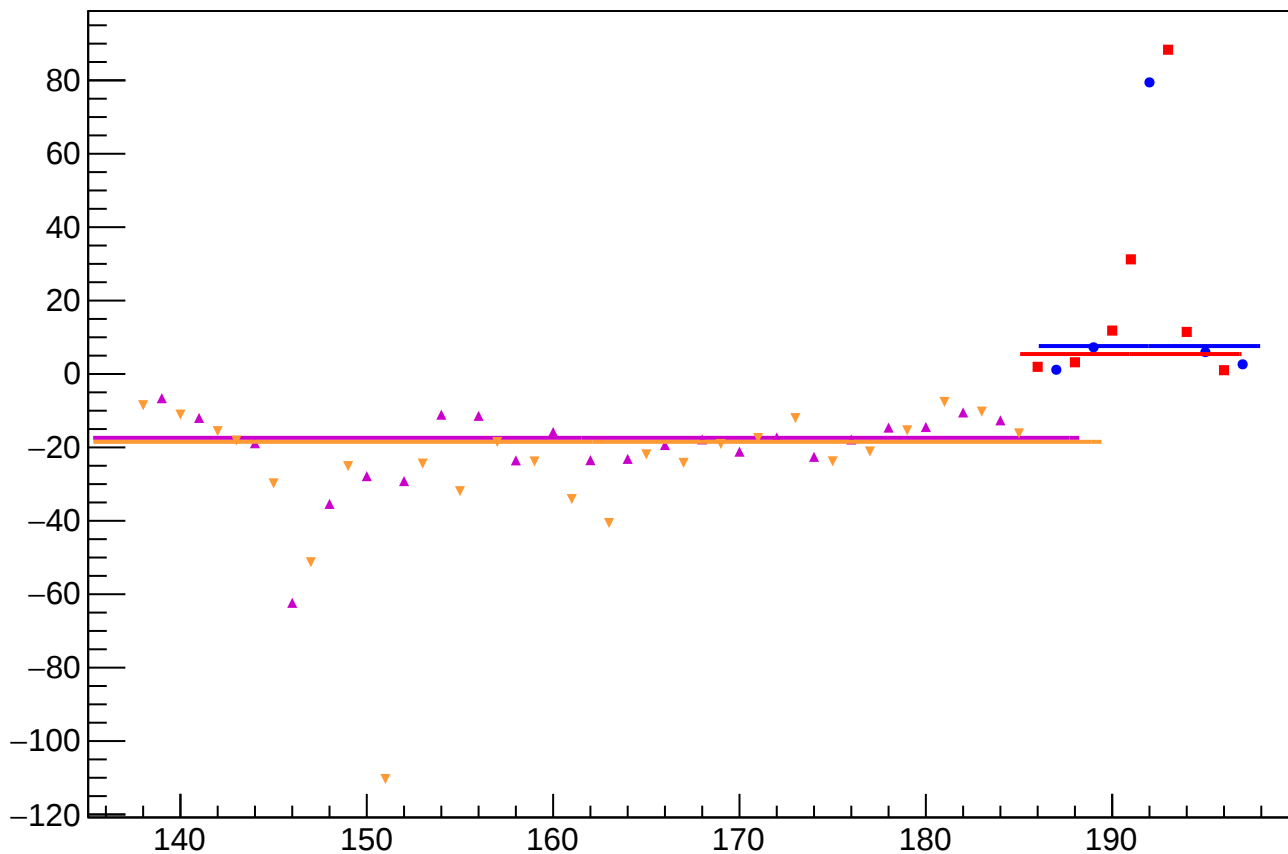
Right: 0.263 ± 0.002 $\chi^2/\text{NDF}: 22905.0/47$

In: 0.120 ± 0.001 $\chi^2/\text{NDF}: 17491.9/44$

Out: 0.144 ± 0.001 $\chi^2/\text{NDF}: 18079.6/50$

All: 0.132 ± 0.001 $\chi^2/\text{NDF}: 35724.4/95$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



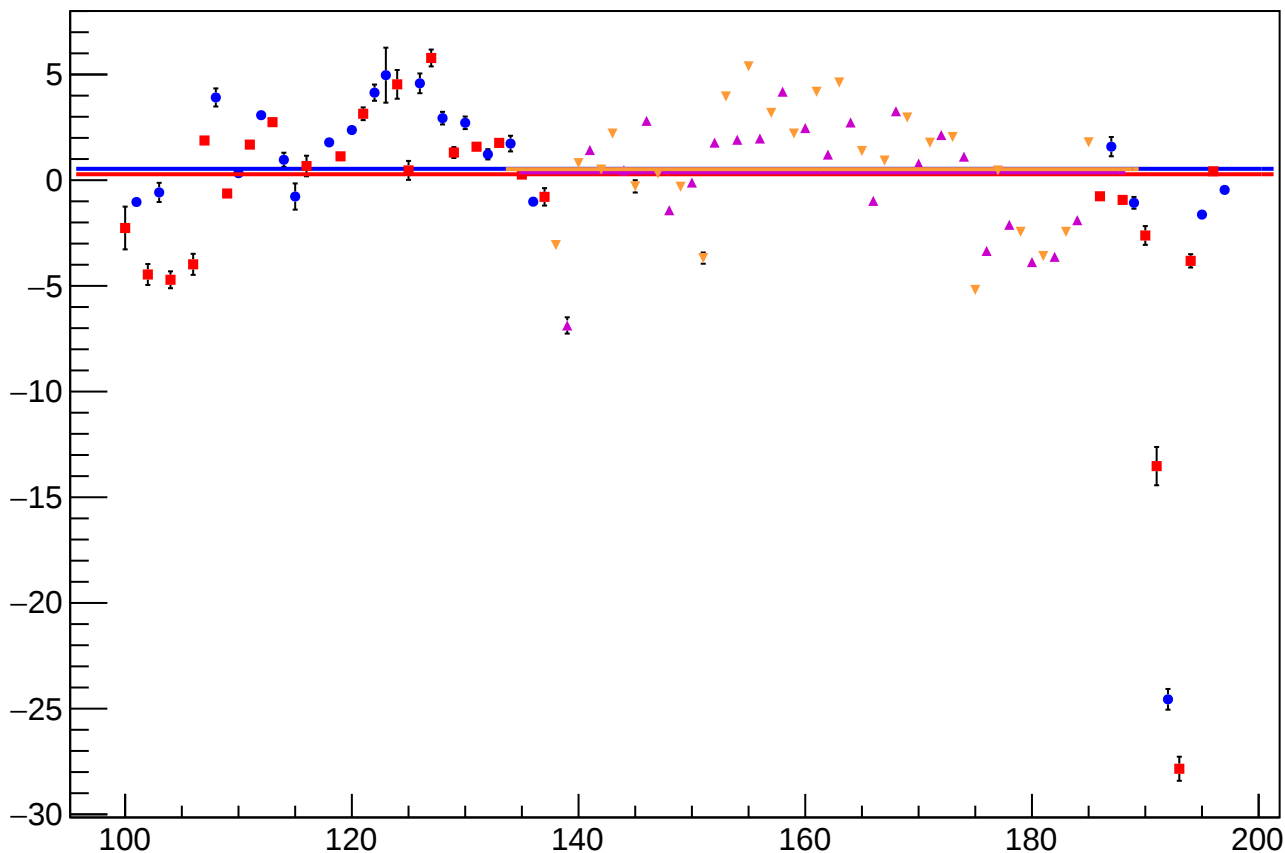
Right In: 7.612 ± 0.099 $\chi^2/\text{NDF}: 24118.1/4$
 Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$
 Right Out: 5.435 ± 0.079 $\chi^2/\text{NDF}: 24678.5/6$
 Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$
 Right: 6.272 ± 0.062 $\chi^2/\text{NDF}: 49092.1/11$

In: -14.061 ± 0.036 $\chi^2/\text{NDF}: 122188.6/27$
 Out: -13.609 ± 0.035 $\chi^2/\text{NDF}: 186456.4/31$

All: -13.830 ± 0.025 $\chi^2/\text{NDF}: 308724.4/59$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.538 $\pm$ 0.055 χ^2 /NDF: 3596.5/21

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.280 $\pm$ 0.051 χ^2 /NDF: 4052.4/25

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF: 6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

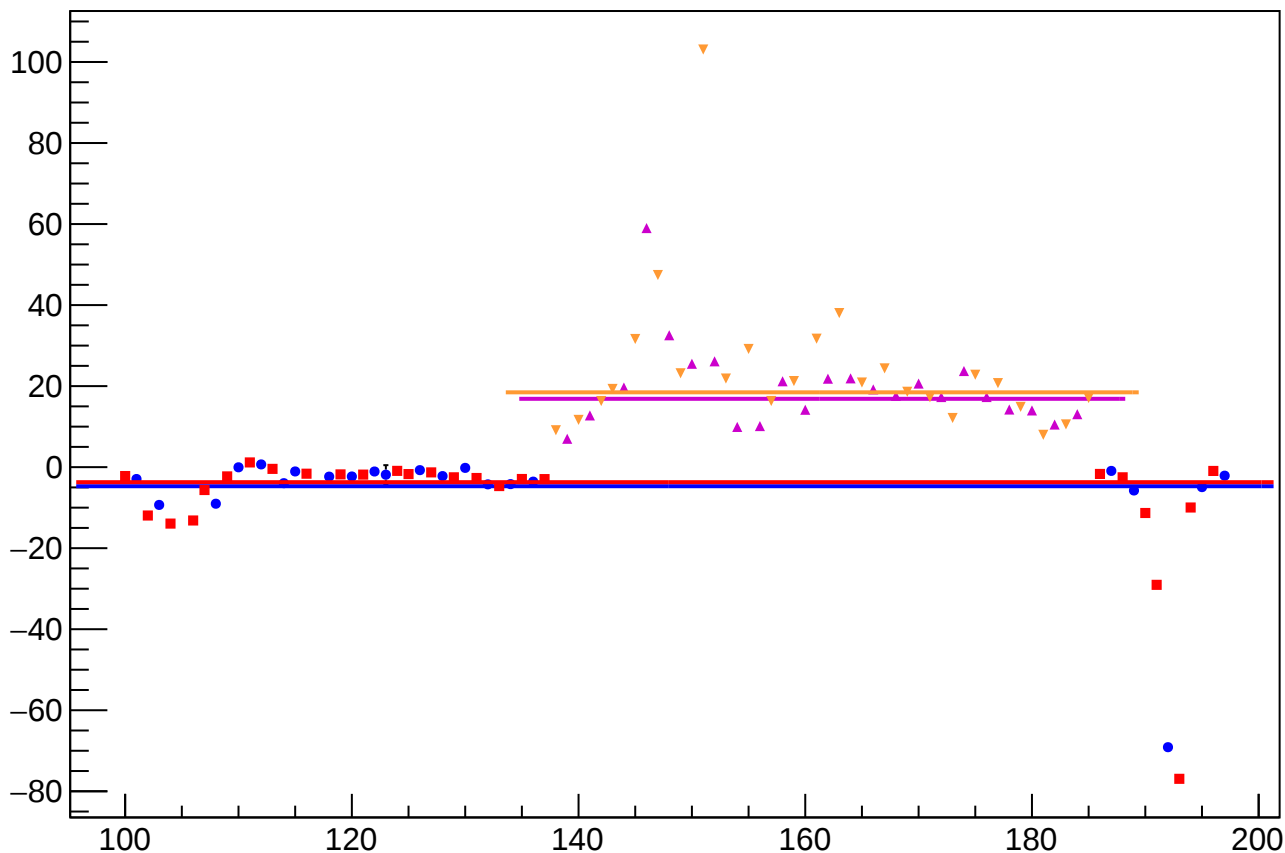
Right: 0.399 $\pm$ 0.038 χ^2 /NDF: 7660.6/47

In: 0.412 $\pm$ 0.027 χ^2 /NDF: 9820.8/44

Out: 0.450 $\pm$ 0.028 χ^2 /NDF: 11123.2/50

All: 0.431 $\pm$ 0.019 χ^2 /NDF: 20945.0/95

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.708 ± 0.067 $\chi^2/\text{NDF}: 25690.4/21$

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 $\chi^2/\text{NDF}: 117837.8/47$

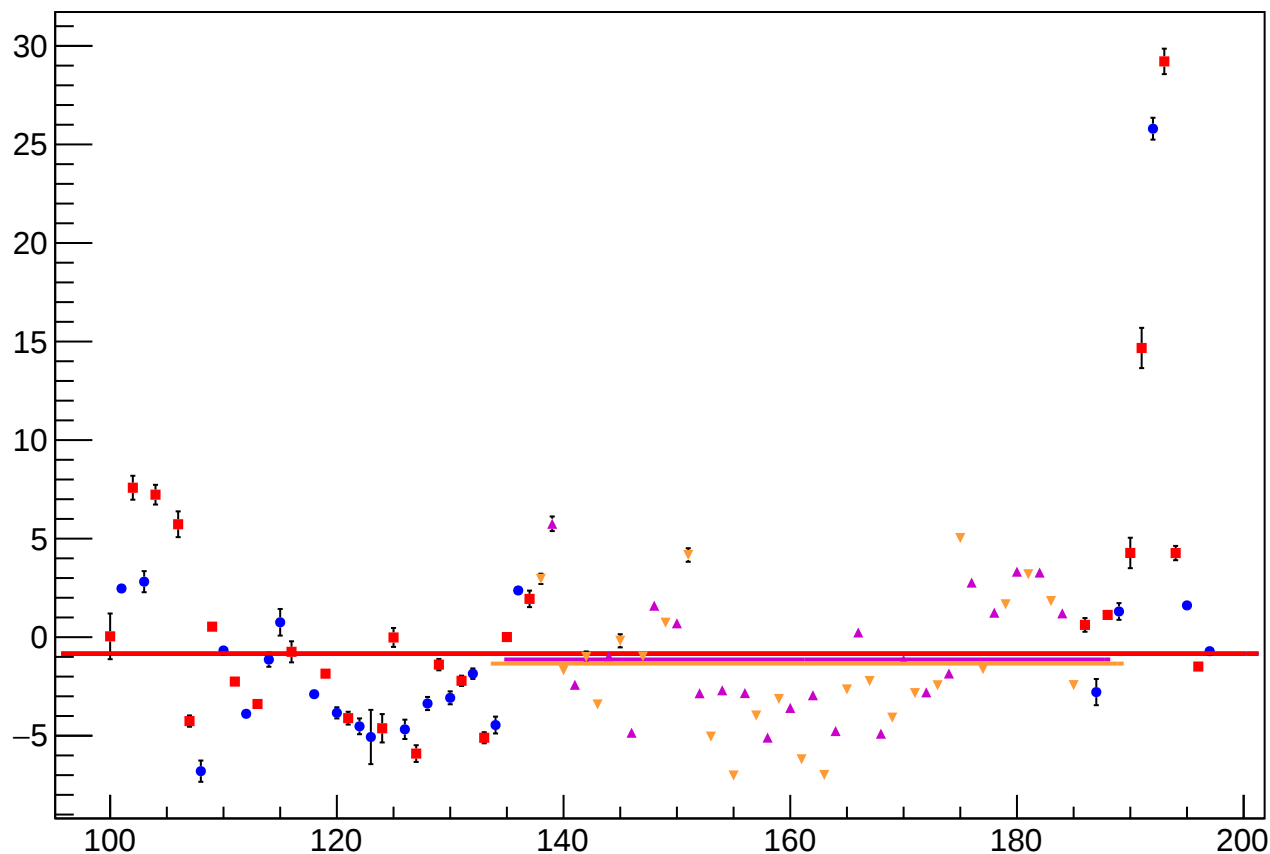
Right: -4.107 ± 0.042 $\chi^2/\text{NDF}: 52021.7/47$

In: 11.495 ± 0.033 $\chi^2/\text{NDF}: 143386.4/44$

Out: 10.717 ± 0.032 $\chi^2/\text{NDF}: 211466.2/50$

All: 11.091 ± 0.023 $\chi^2/\text{NDF}: 355133.9/95$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.844 ± 0.065 χ^2/NDF : 3798.6/21

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

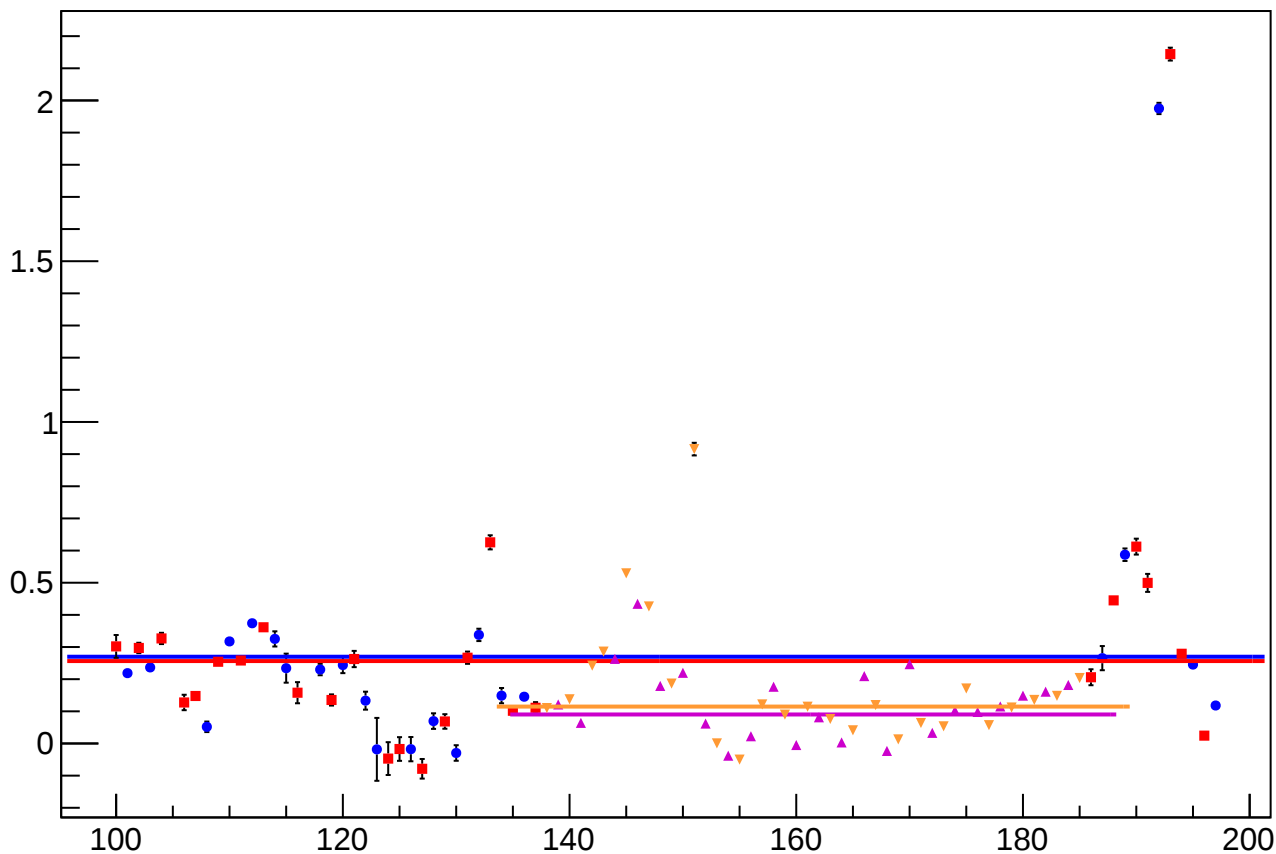
Right: -0.828 ± 0.044 χ^2/NDF : 8124.9/47

In: -1.067 ± 0.031 χ^2/NDF : 10522.5/44

Out: -1.198 ± 0.031 χ^2/NDF : 12289.5/50

All: -1.131 ± 0.022 χ^2/NDF : 22820.8/95

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.270 $\pm$ 0.003 χ^2 /NDF: 10944.0/21

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.256 $\pm$ 0.003 χ^2 /NDF: 11532.7/25

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

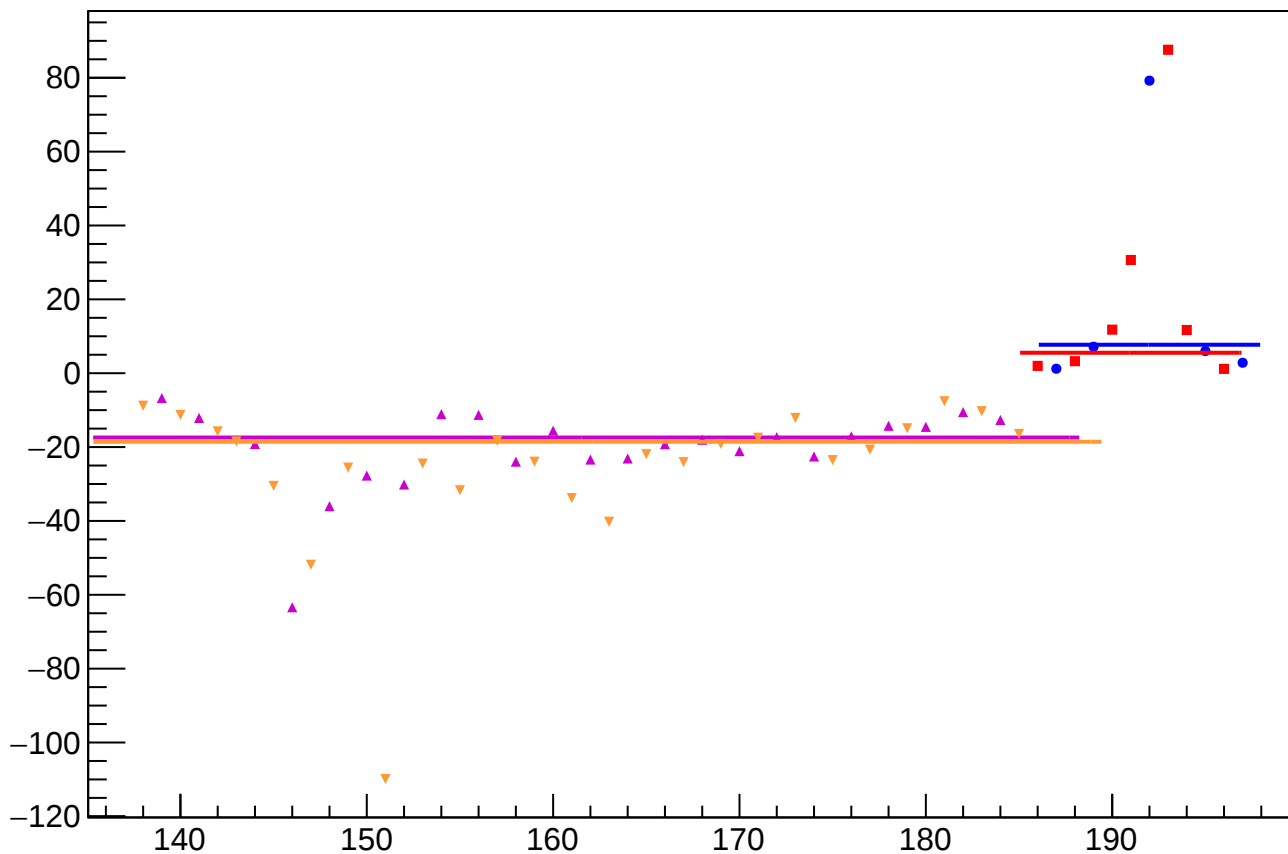
Right: 0.263 $\pm$ 0.002 χ^2 /NDF: 22486.2/47

In: 0.124 $\pm$ 0.001 χ^2 /NDF:17194.6/44

Out: 0.147 $\pm$ 0.001 χ^2 /NDF:17663.1/50

All: 0.135 $\pm$ 0.001 χ^2 /NDF: 34988.7/95

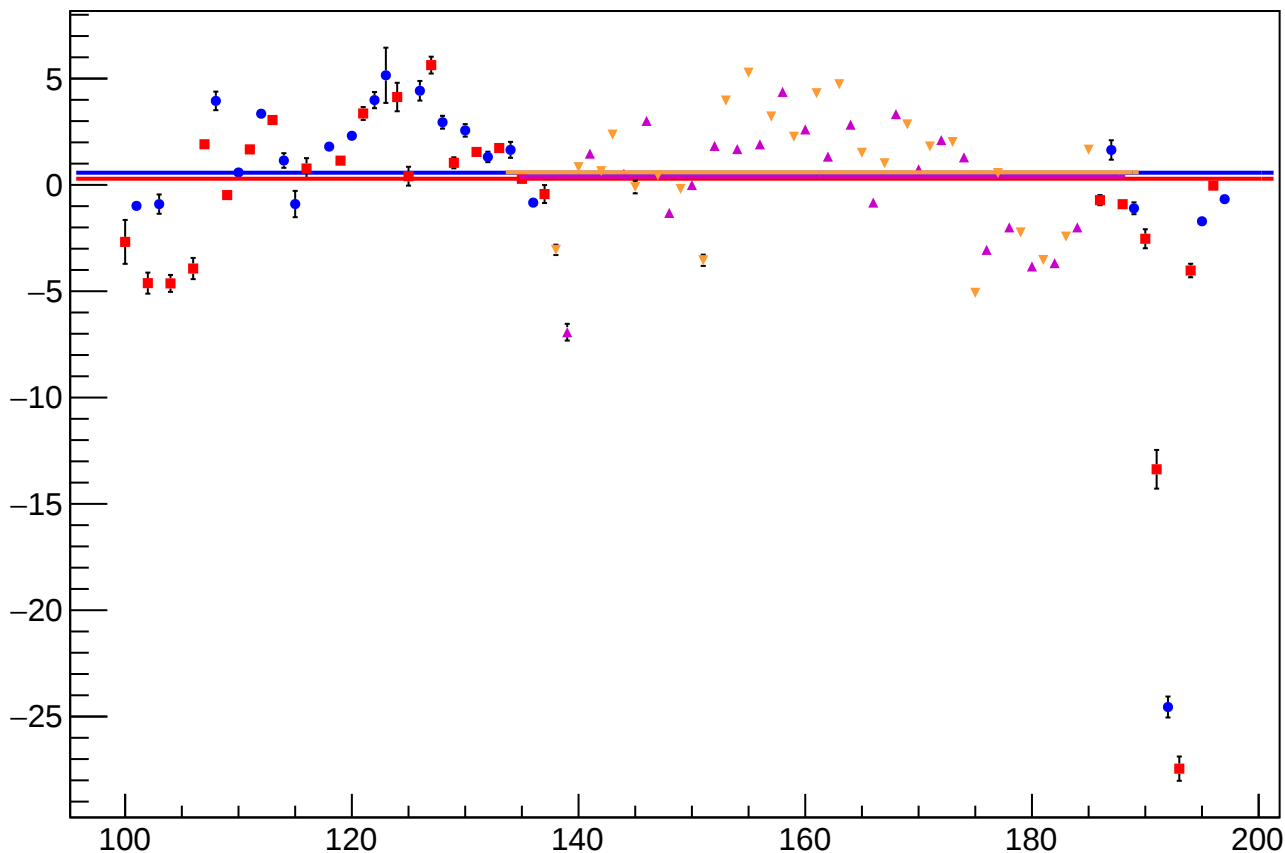
reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.708 ± 0.100 $\chi^2/\text{NDF}: 23645.0/4$
 Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$
 Right Out: 5.541 ± 0.080 $\chi^2/\text{NDF}: 24072.2/6$
 Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$
 Right: 6.377 ± 0.062 $\chi^2/\text{NDF}: 48003.6/11$
 In: -14.074 ± 0.037 $\chi^2/\text{NDF}: 121479.7/27$
 Out: -13.678 ± 0.036 $\chi^2/\text{NDF}: 183751.7/31$
 All: -13.872 ± 0.026 $\chi^2/\text{NDF}: 305290.9/59$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.573 $\pm$ 0.056 χ^2 /NDF: 3584.0/21

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.290 $\pm$ 0.052 χ^2 /NDF: 3984.3/25

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF: 6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

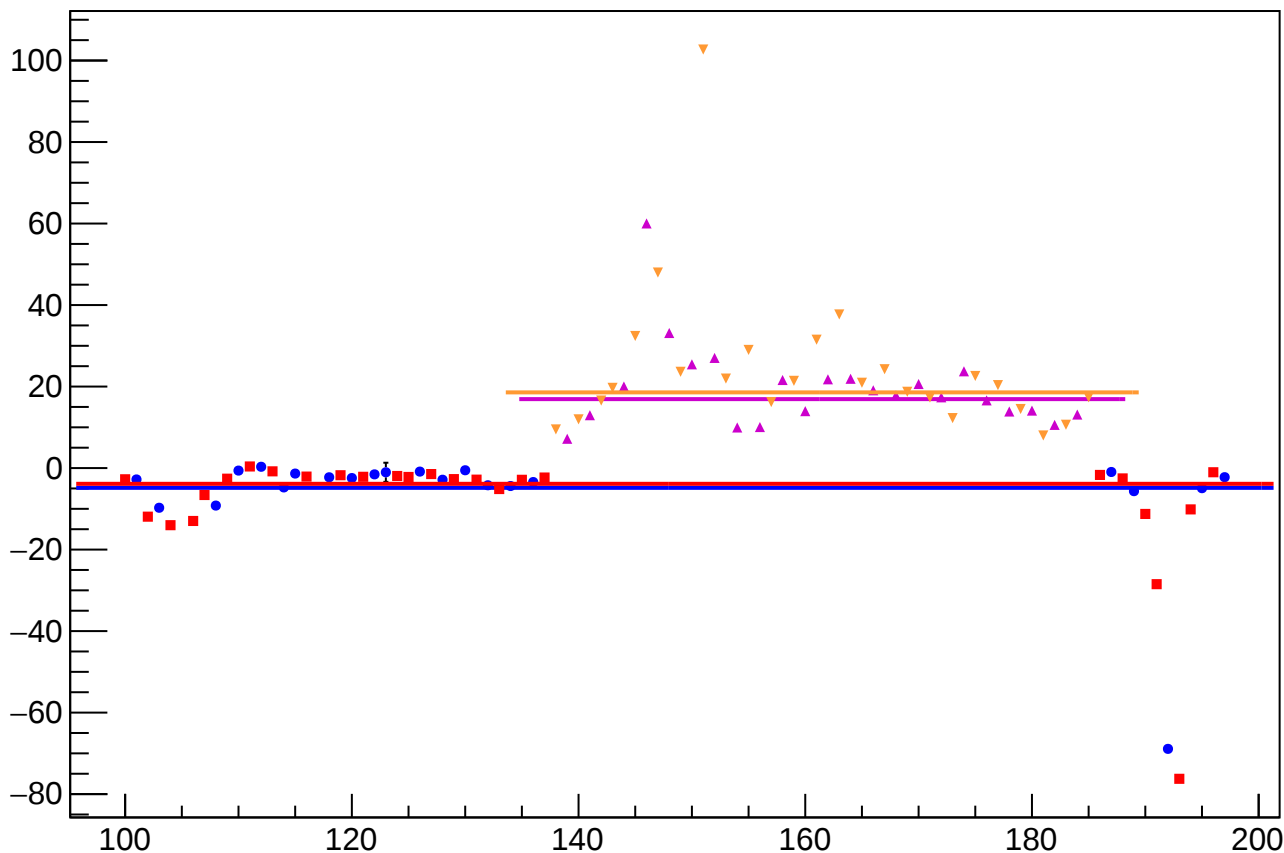
Right: 0.421 $\pm$ 0.038 χ^2 /NDF: 7582.1/47

In: 0.438 $\pm$ 0.028 χ^2 /NDF: 9651.5/44

Out: 0.503 $\pm$ 0.028 χ^2 /NDF: 10804.6/50

All: 0.470 $\pm$ 0.020 χ^2 /NDF: 20458.9/95

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.847+/-0.068 χ^2/NDF : 25071.0/21

Left Out: 18.573+/-0.040 χ^2/NDF : 76029.9/24

Right Out: -3.862+/-0.055 χ^2/NDF : 25432.5/25

Left In: 16.919+/-0.039 χ^2/NDF : 40154.5/22

Left: 17.718+/-0.028 χ^2/NDF : 117057.3/47

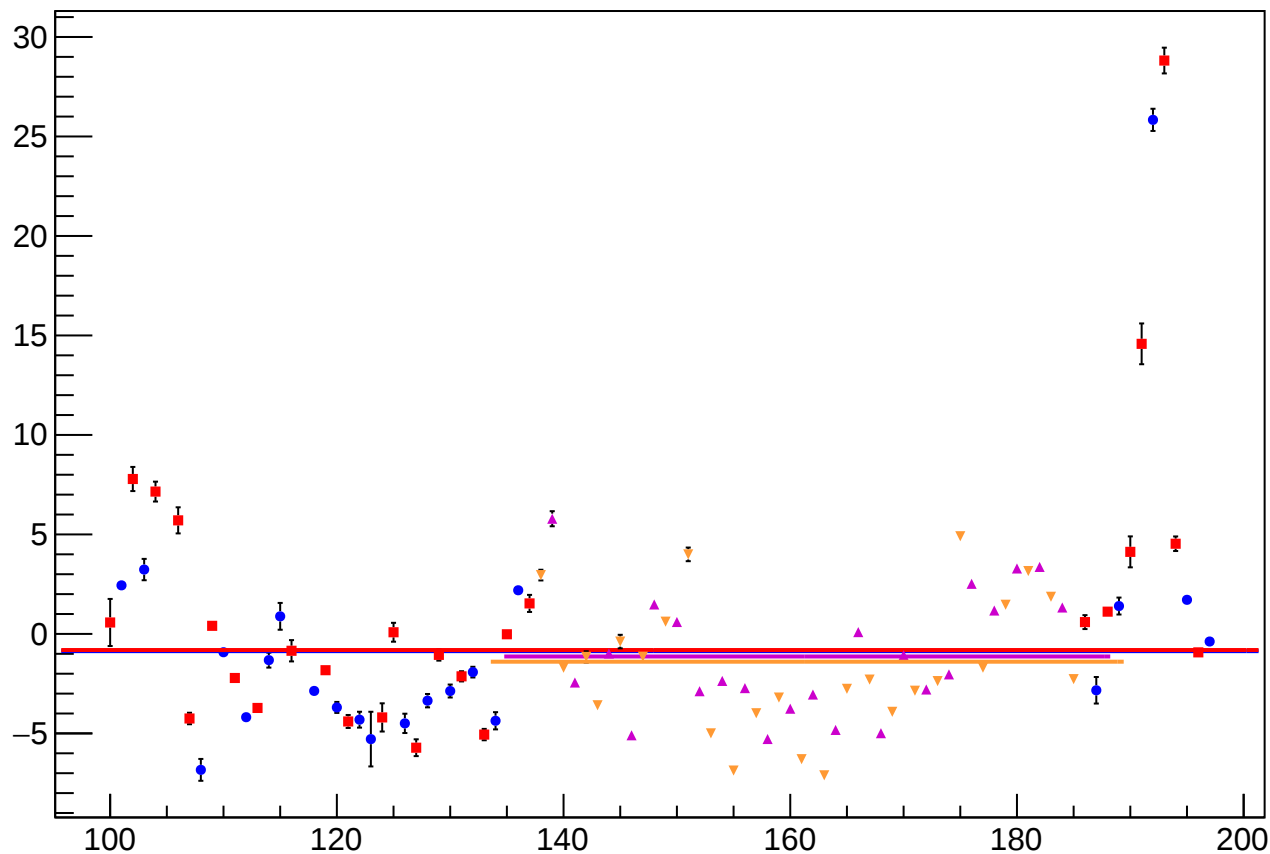
Right: -4.255+/-0.043 χ^2/NDF : 50630.5/47

In: 11.524+/-0.034 χ^2/NDF : 142793.7/44

Out: 10.793+/-0.033 χ^2/NDF : 209136.1/50

All: 11.146+/-0.023 χ^2/NDF : 352172.9/95

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.866 ± 0.066 χ^2/NDF : 3758.4/21

Left Out: -1.396 ± 0.037 χ^2/NDF : 7651.5/24

Right Out: -0.810 ± 0.061 χ^2/NDF : 4244.8/25

Left In: -1.135 ± 0.035 χ^2/NDF : 6597.7/22

Left: -1.259 ± 0.025 χ^2/NDF : 14275.6/47

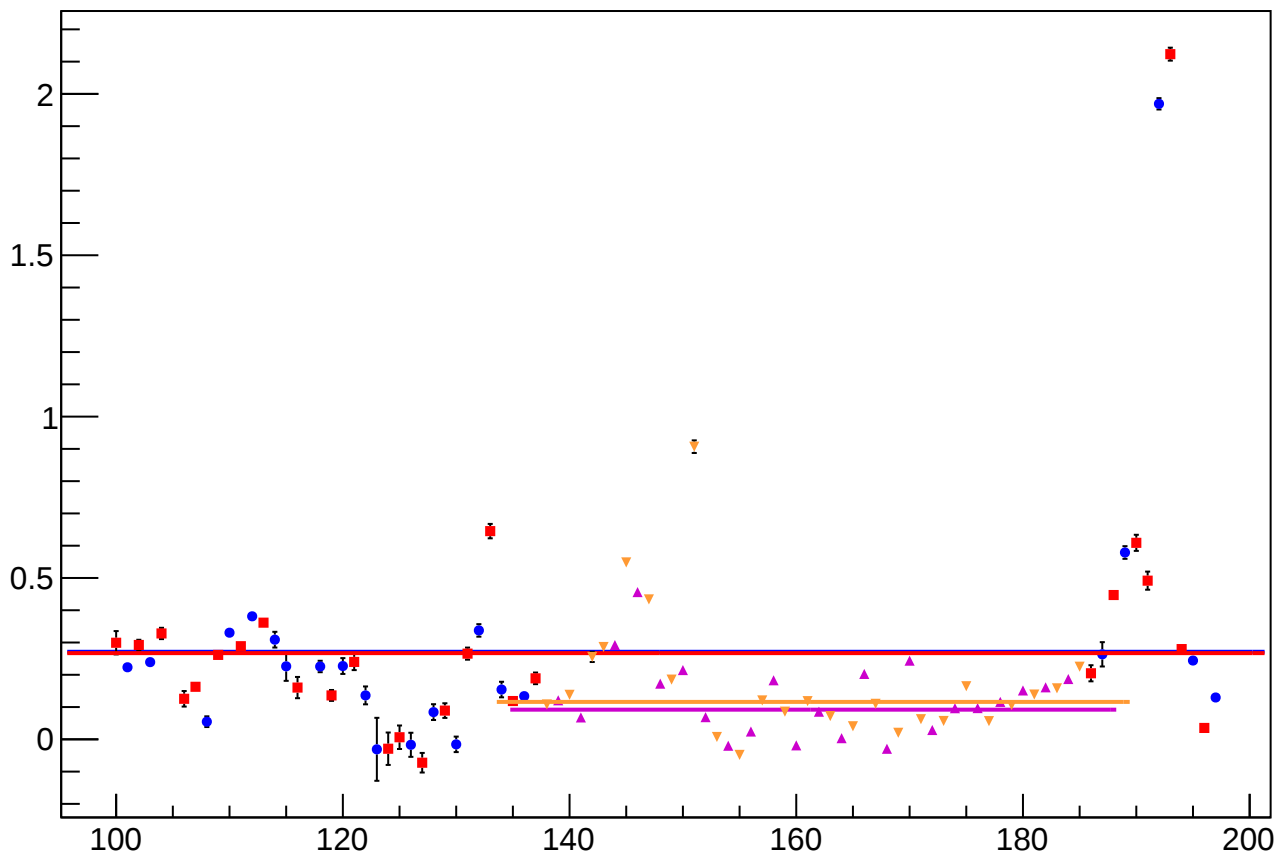
Right: -0.836 ± 0.045 χ^2/NDF : 8003.6/47

In: -1.074 ± 0.031 χ^2/NDF : 10369.2/44

Out: -1.238 ± 0.032 χ^2/NDF : 11964.3/50

All: -1.155 ± 0.022 χ^2/NDF : 22347.2/95

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.271 $\pm$ 0.003 χ^2 /NDF: 10713.5/21

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.267 $\pm$ 0.003 χ^2 /NDF: 10996.1/25

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

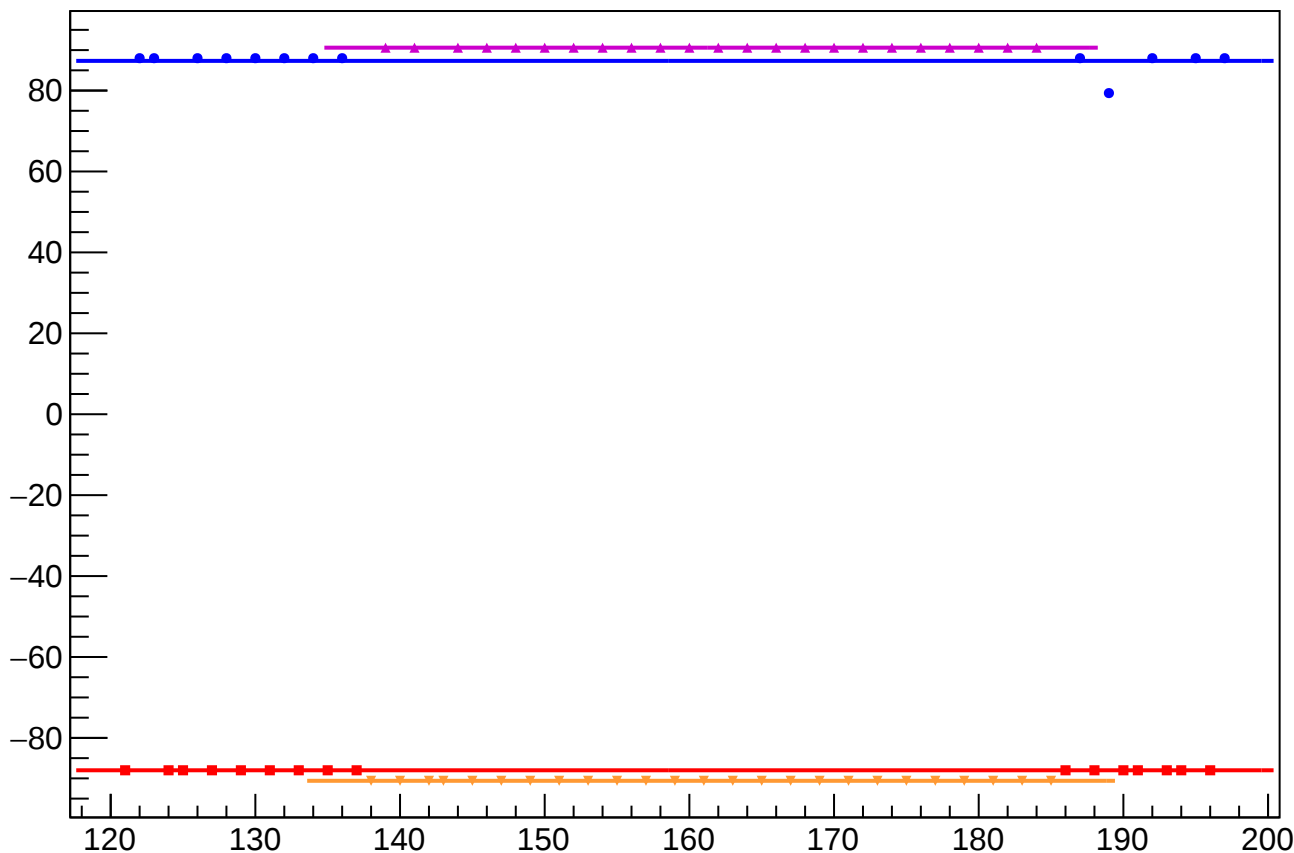
Right: 0.269 $\pm$ 0.002 χ^2 /NDF: 21710.5/47

In: 0.126 $\pm$ 0.001 χ^2 /NDF:16852.4/44

Out: 0.150 $\pm$ 0.001 χ^2 /NDF:17335.1/50

All: 0.137 $\pm$ 0.001 χ^2 /NDF: 34331.7/95

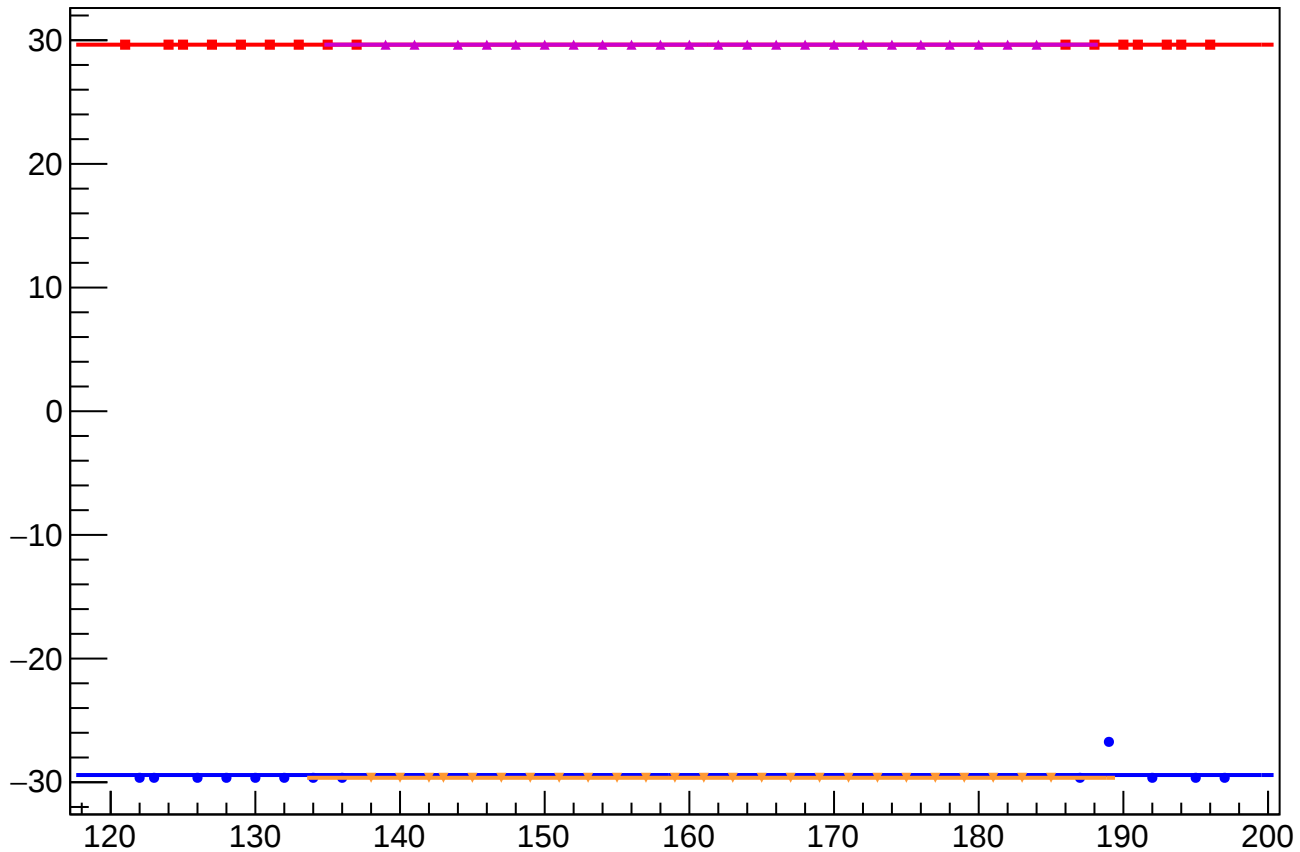
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.336 ± 0.000 χ^2/NDF : 3503687290113232830043130383302656.0/12
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 365526.6/15
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -6.202 ± 0.000 χ^2/NDF : 1086069198803262
 In: 89.726 ± 0.000 χ^2/NDF : 866610866450140681
 Out: -89.862 ± 0.000 χ^2/NDF : 3660859068199417
 All: -3.457 ± 0.000 χ^2/NDF : 4139666971408

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.417 $\pm$ 0.000

χ^2/NDF : 397493523151627671726007823368192.0/12

Left Out: -29.641 $\pm$ 0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641 $\pm$ 0.000

χ^2/NDF : 917842.8/15

Left In: 29.641 $\pm$ 0.000

χ^2/NDF : 511825.6/22

Left: -0.789 $\pm$ 0.000

χ^2/NDF : 32668496095314519

Right: 2.089 $\pm$ 0.000

χ^2/NDF : 12321461262738218

In: 13.832 $\pm$ 0.000

χ^2/NDF : 169123914995441294

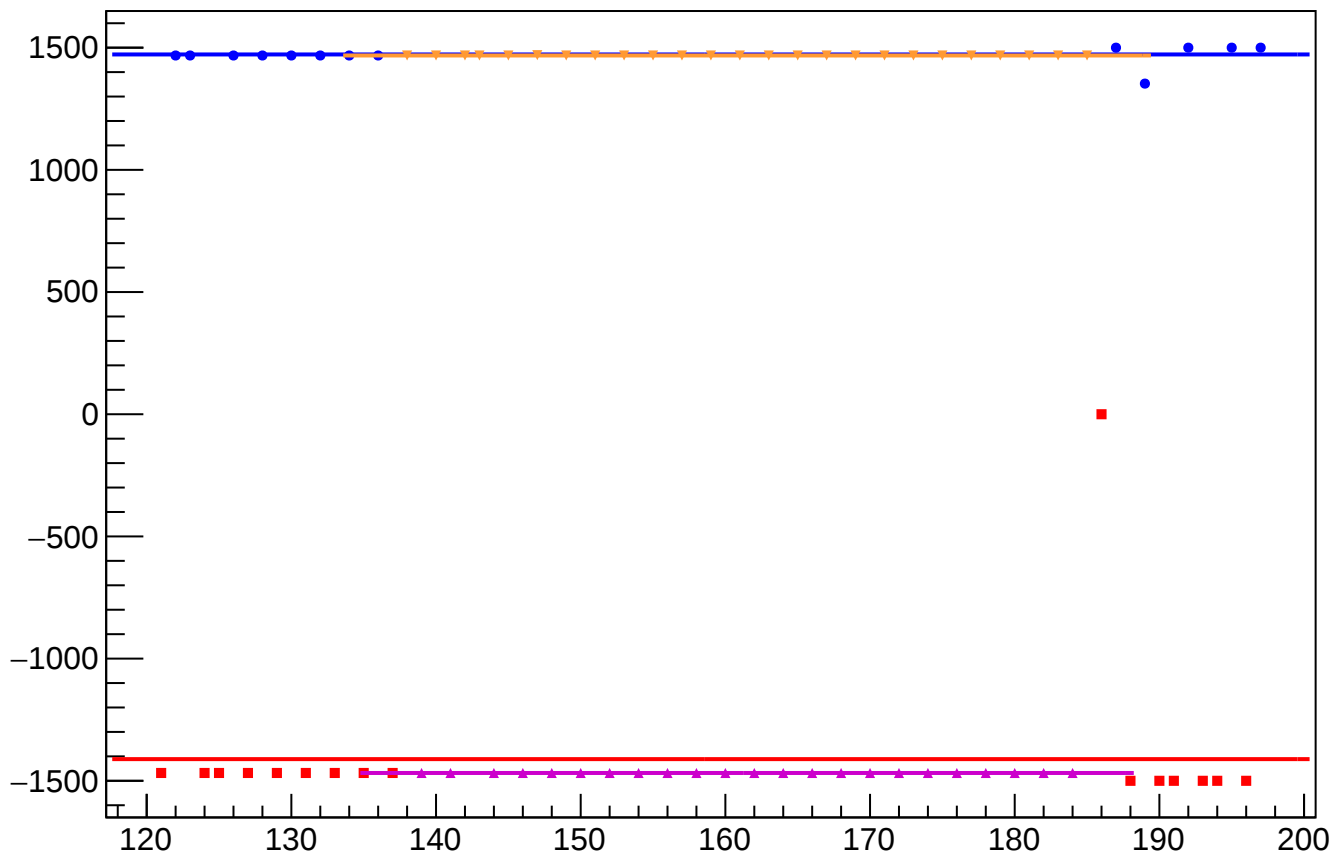
Out: -12.814 $\pm$ 0.000

χ^2/NDF : 1905211637248968

All: 0.006 $\pm$ 0.000

χ^2/NDF : 45075011766173

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1472.274+/-0.000

χ^2/NDF : 941606876977932272704673896279834624.0/12

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

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322

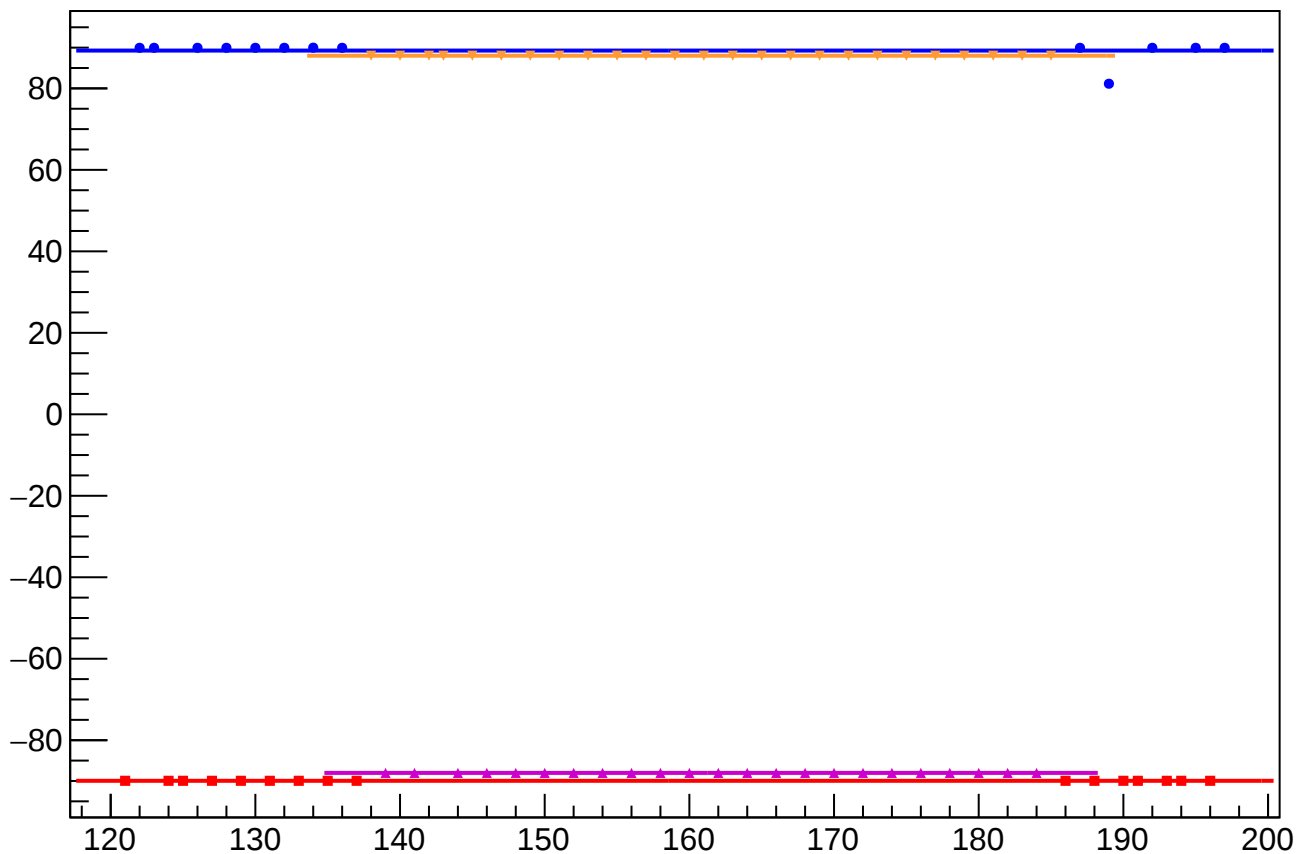
Right: -66.036+/-0.000 χ^2/NDF : 301732243938163

In: -680.910+/-0.000 χ^2/NDF : 4192021990429438

Out: 650.777+/-0.000 χ^2/NDF : 4574486435142457

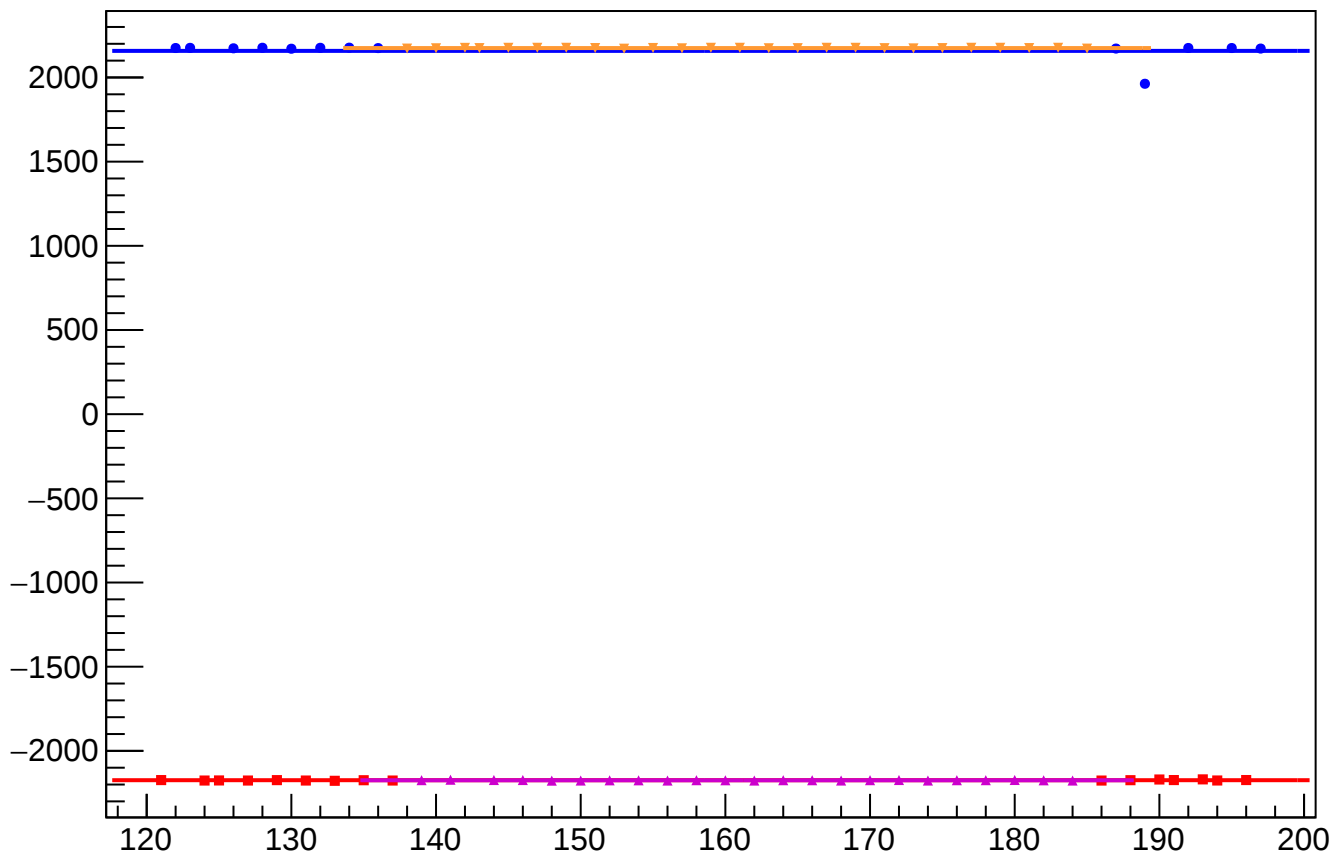
All: 10.064+/-0.000 χ^2/NDF : 1104206859917

Phi_FG_mean vs Slug, Sign Corrected



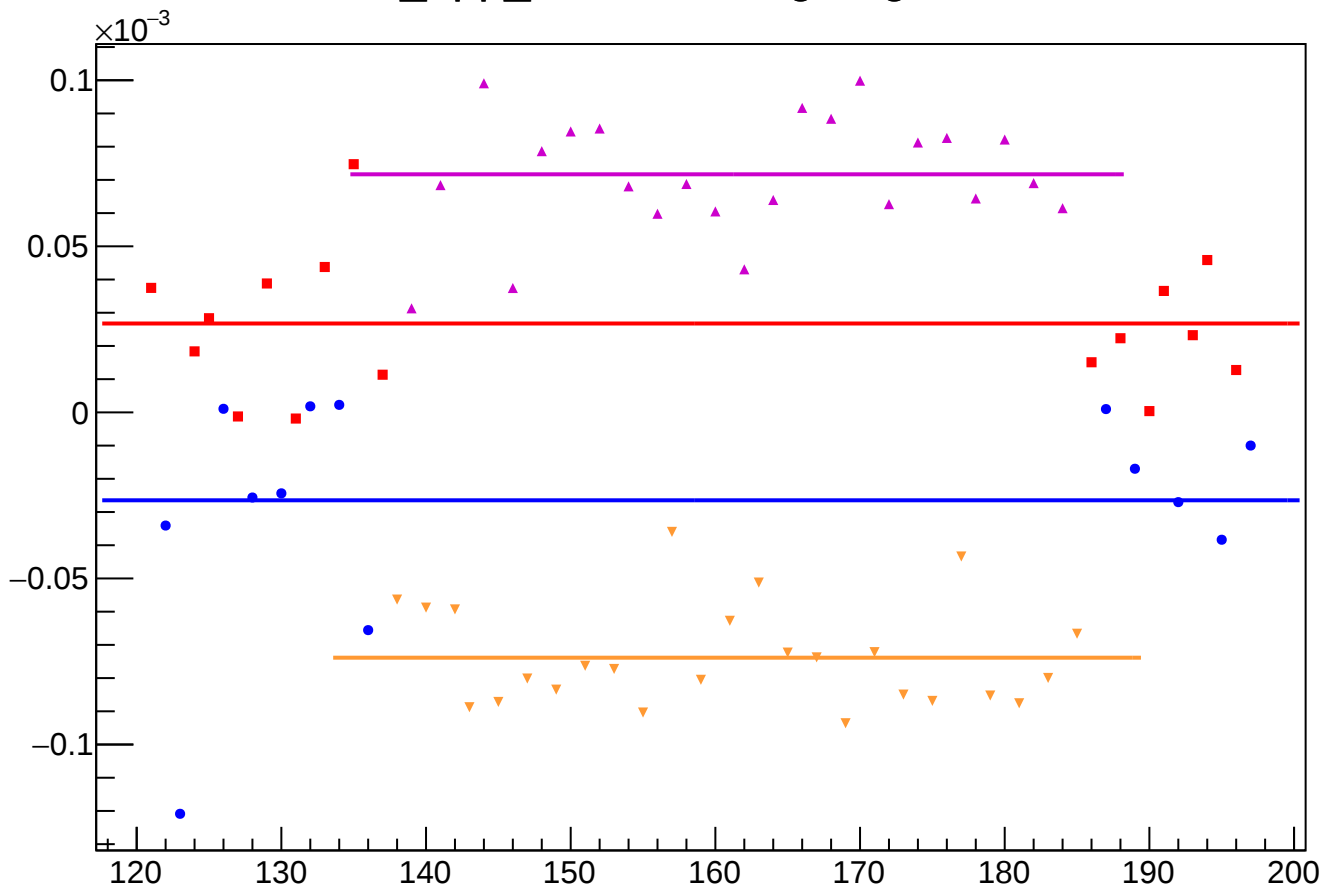
Right In: 89.281+/-0.000	χ^2/NDF : 3662348305424045289439749442895872.0/12	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -6.339+/-0.000	χ^2/NDF : 1134964906450596
Right Out: -89.959+/-0.000	χ^2/NDF : 2225471.3/15	In: -40.559+/-0.000	χ^2/NDF : 15243404557918981
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 37.503+/-0.000	χ^2/NDF : 17173097511791497
		All: -0.055+/-0.000	χ^2/NDF : 4023563970352

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2157.931+/-0.000 χ^2/NDF : 2110014887060221990138687416296275968.0/12
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.222+/-0.000 χ^2/NDF : 4005435792971347725154947327590400.0/15
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: -0.369+/-0.000 χ^2/NDF : 2425924094229

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 302447619647654890307584.0/12

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 15886362633857458

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000+/-0.000

χ^2/NDF : 5534731643915253774

Right Out: 0.000+/-0.000

χ^2/NDF : 285492795437640914567168.0/15

Out: -0.000+/-0.000

χ^2/NDF : 62246906006166448

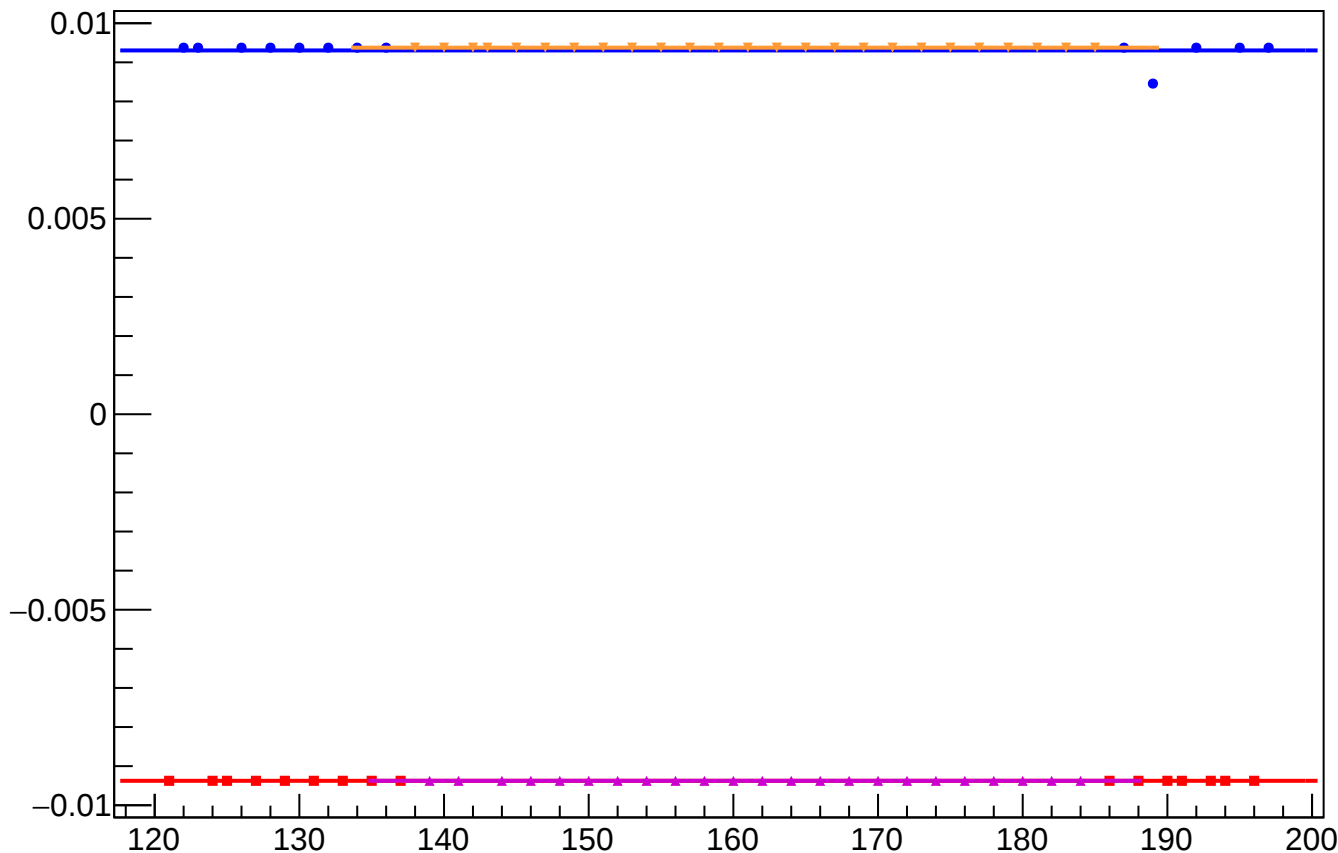
Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000+/-0.000

χ^2/NDF : 2231653752382

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39764507341833249761525760.0/12

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 : 1232615900152341

In: -0.004+/-0.000

χ^2/NDF : 169188395981749526

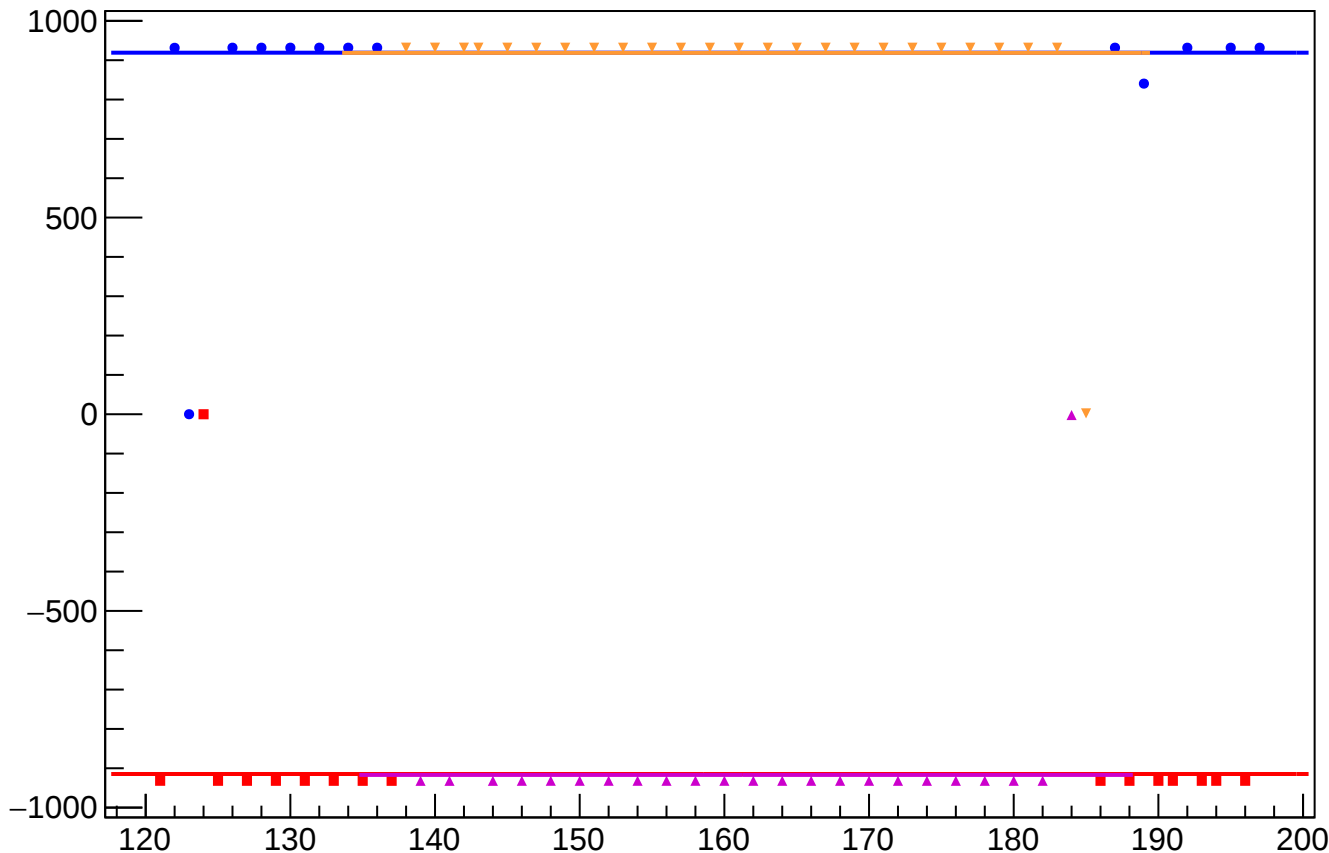
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

χ^2/NDF : 4509219727903

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 919.127 +/- 0.000

χ^2/NDF : 3791651103304374580367909158729547776.0/12

Left Out: 918.645 +/- 0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -914.580 +/- 0.000

χ^2/NDF : 11930227895577111478040748451535257600.0/15

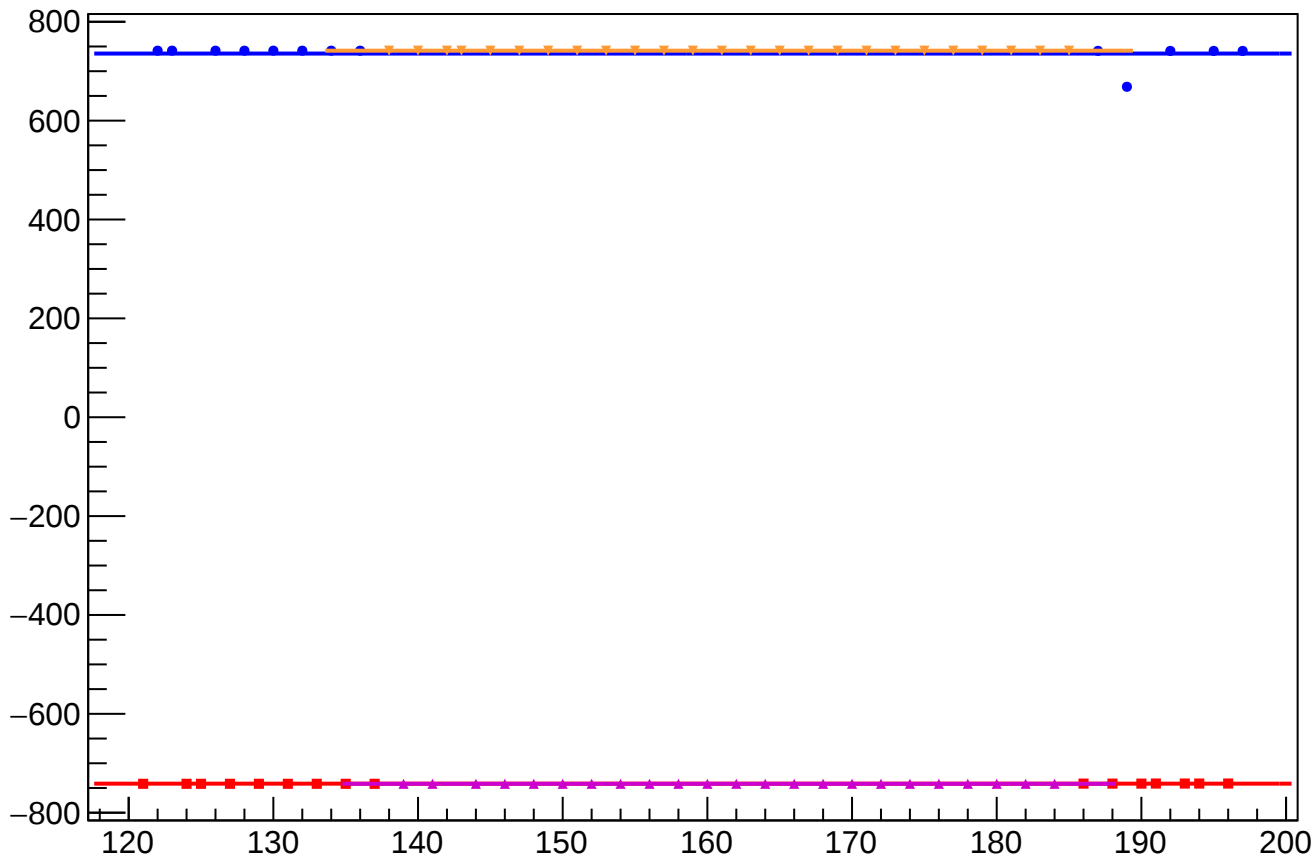
Left In: -916.890 +/- 0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

All: 1.994 +/- 0.000

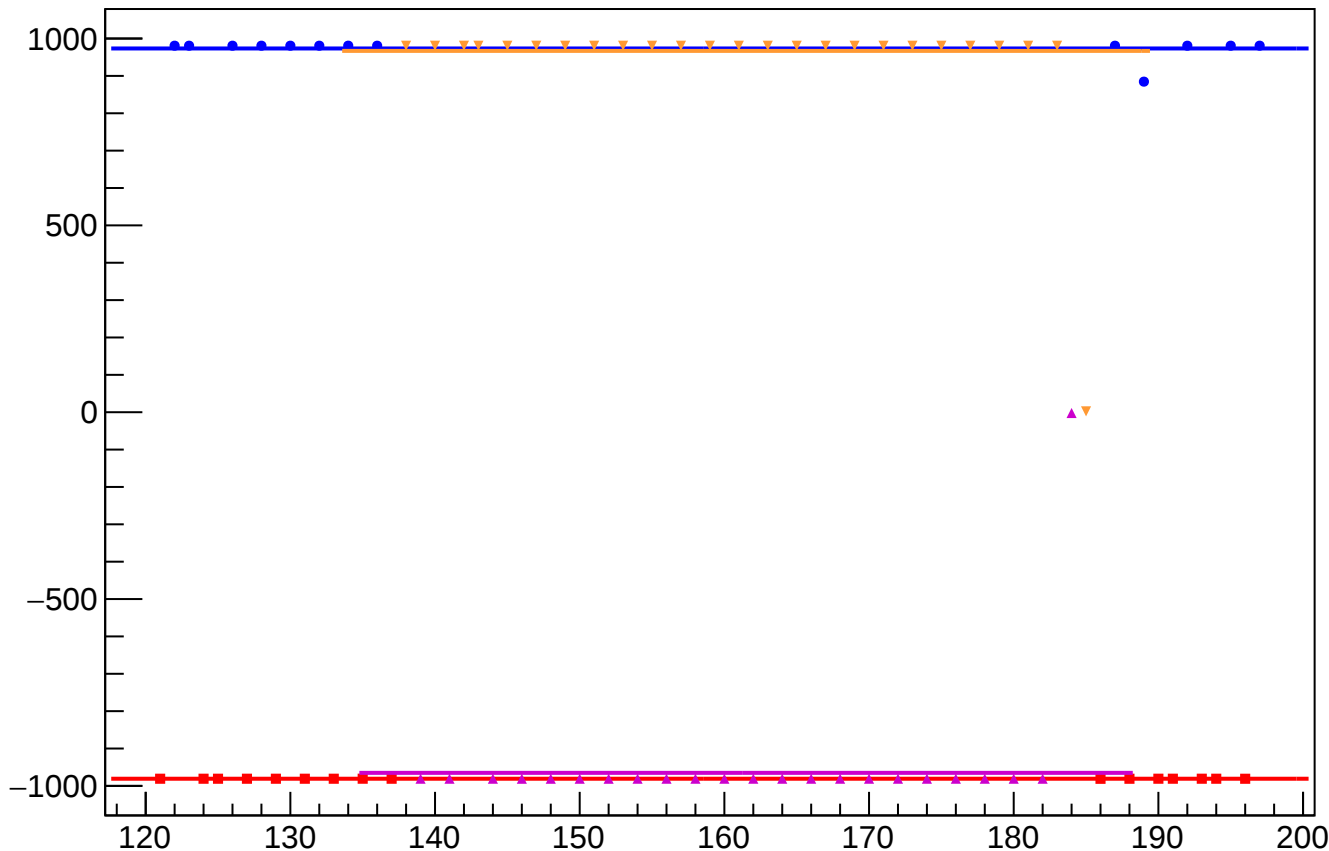
χ^2/NDF : 43901728727402

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



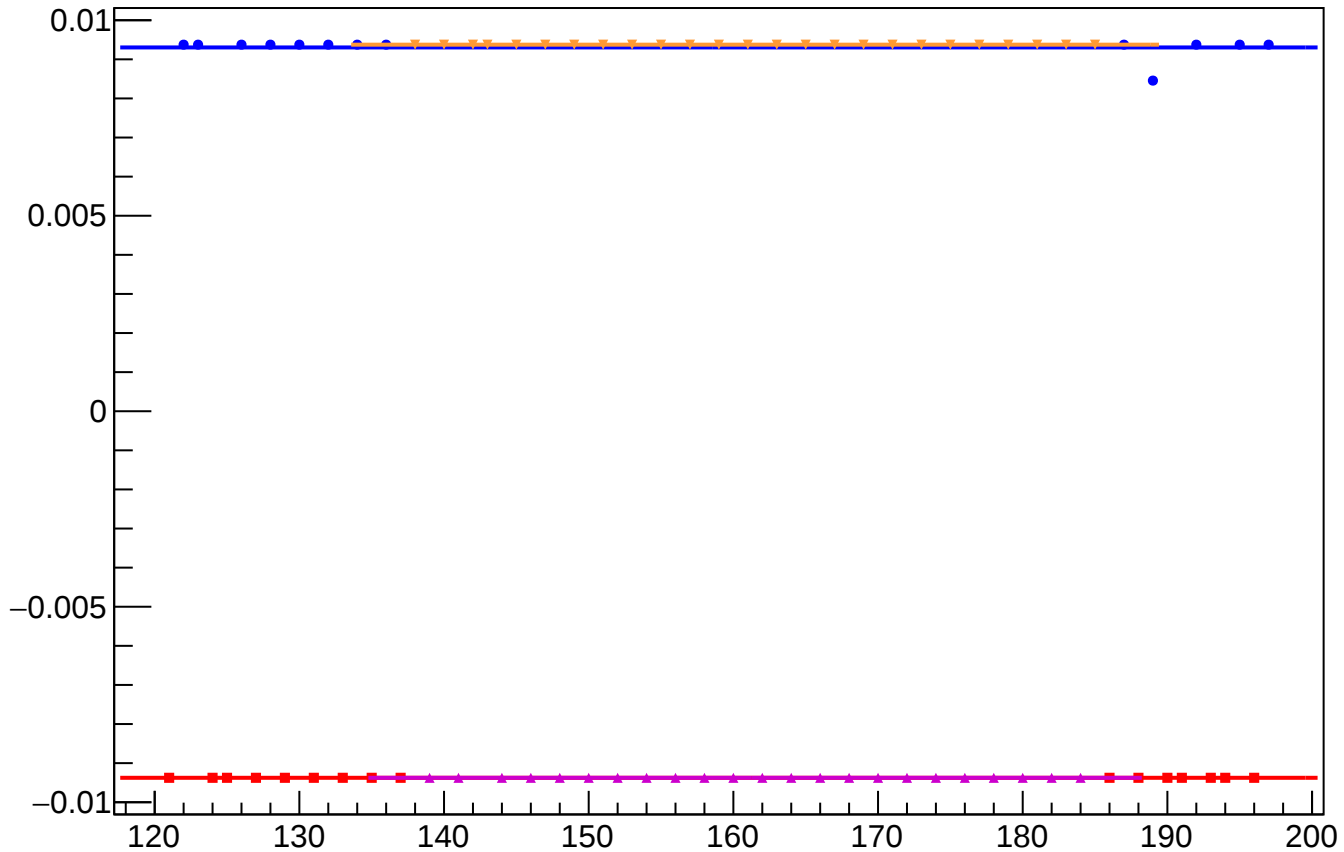
Right In: 735.699+/-0.000 χ^2 /NDF: 249555998538674626614118291152568320.0/12
 Left Out: 741.513+/-0.000 χ^2 /NDF: 244782737401533731539808944128.0/24
 Right Out: -741.266+/-0.000 χ^2 /NDF: 39386545126525910265631288066048.0/15
 Left In: -741.512+/-0.000 χ^2 /NDF: 215375309108434607405602439168.0/22
 All: -0.135+/-0.000 χ^2 /NDF: 2820470235035

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.414 +/- 0.000 χ^2 /NDF: 435470248219584920376884692749647872.0/12
 Left Out: 966.936 +/- 0.000 χ^2 /NDF: 25485578616543458629432284645183979520.0/24
 Right Out: -980.841 +/- 0.000 χ^2 /NDF: 2508463668112755384961514602496.0/15
 Left In: -965.102 +/- 0.000 χ^2 /NDF: 27330319430012441419356351914146004992.0/22
 All: 0.185 +/- 0.000 χ^2 /NDF: 48813798422458

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39764507341833249761525760.0/12

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 : 1232615900152341

In: -0.004+/-0.000

χ^2/NDF : 169188395981749526

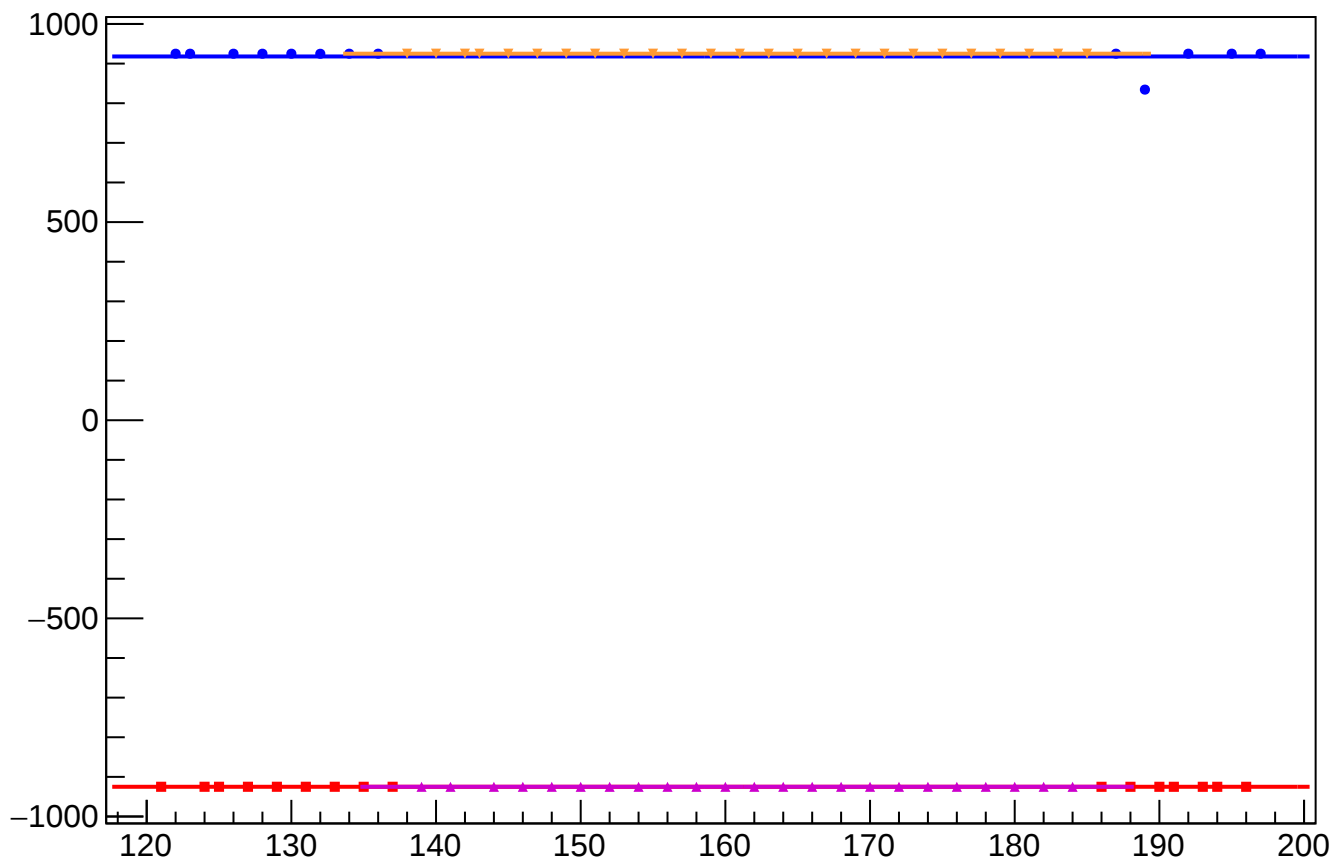
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

χ^2/NDF : 4509219727903

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 917.991+/-0.000

χ^2/NDF : 386653922731972580928616940366200832.0/12

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: -0.182+/-0.000 χ^2/NDF : 4389617452906

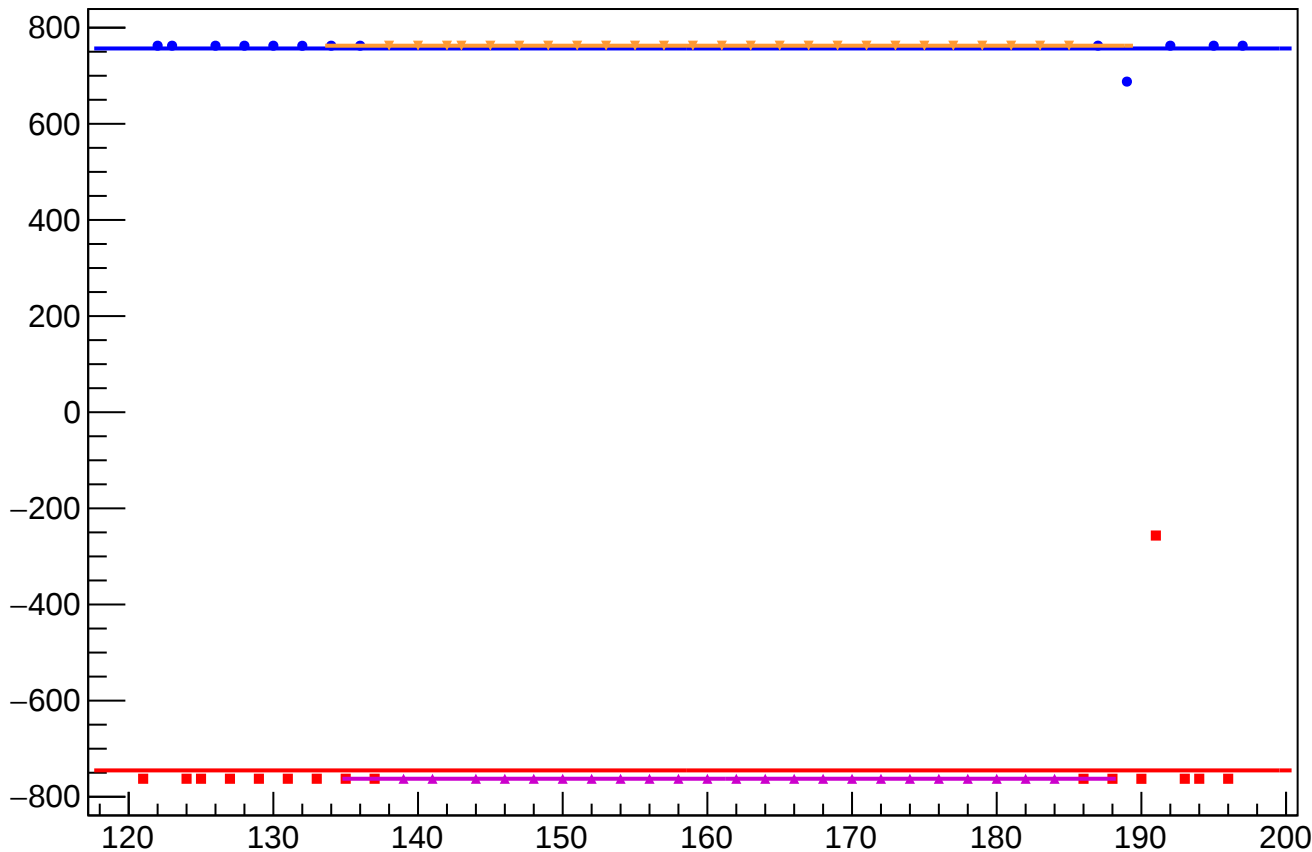
Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

Right: -65.193+/-0.000 χ^2/NDF : 119992483560782

In: -431.635+/-0.000 χ^2/NDF : 1646996283143967

Out: 399.887+/-0.000 χ^2/NDF : 1855400838129888

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 756.751+/-0.000

χ^2/NDF : 262614711998814251489052968808873984.0/12

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -745.151+/-0.000

χ^2/NDF : 6427750785195720132806182545681022976.0/15

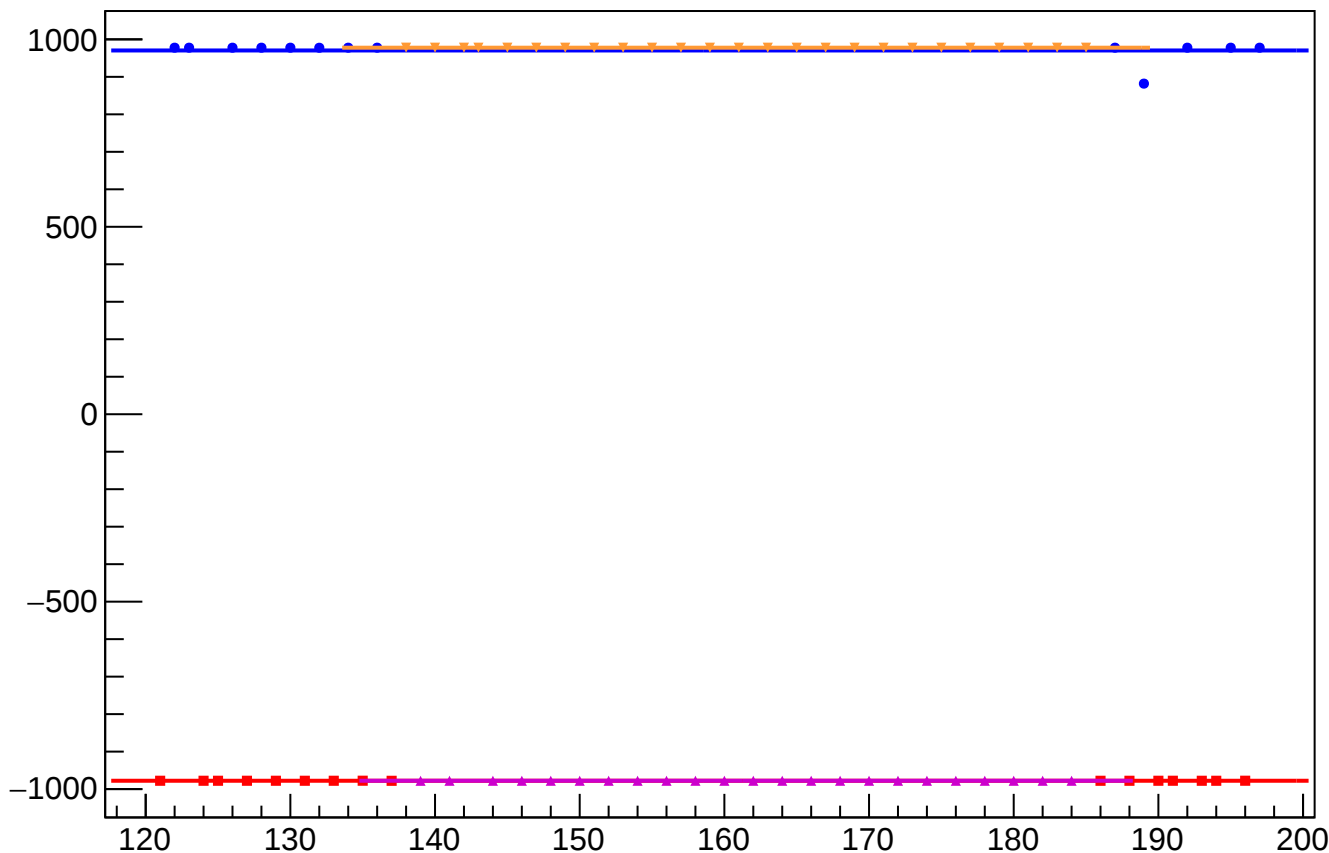
Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

All: 2.408+/-0.000

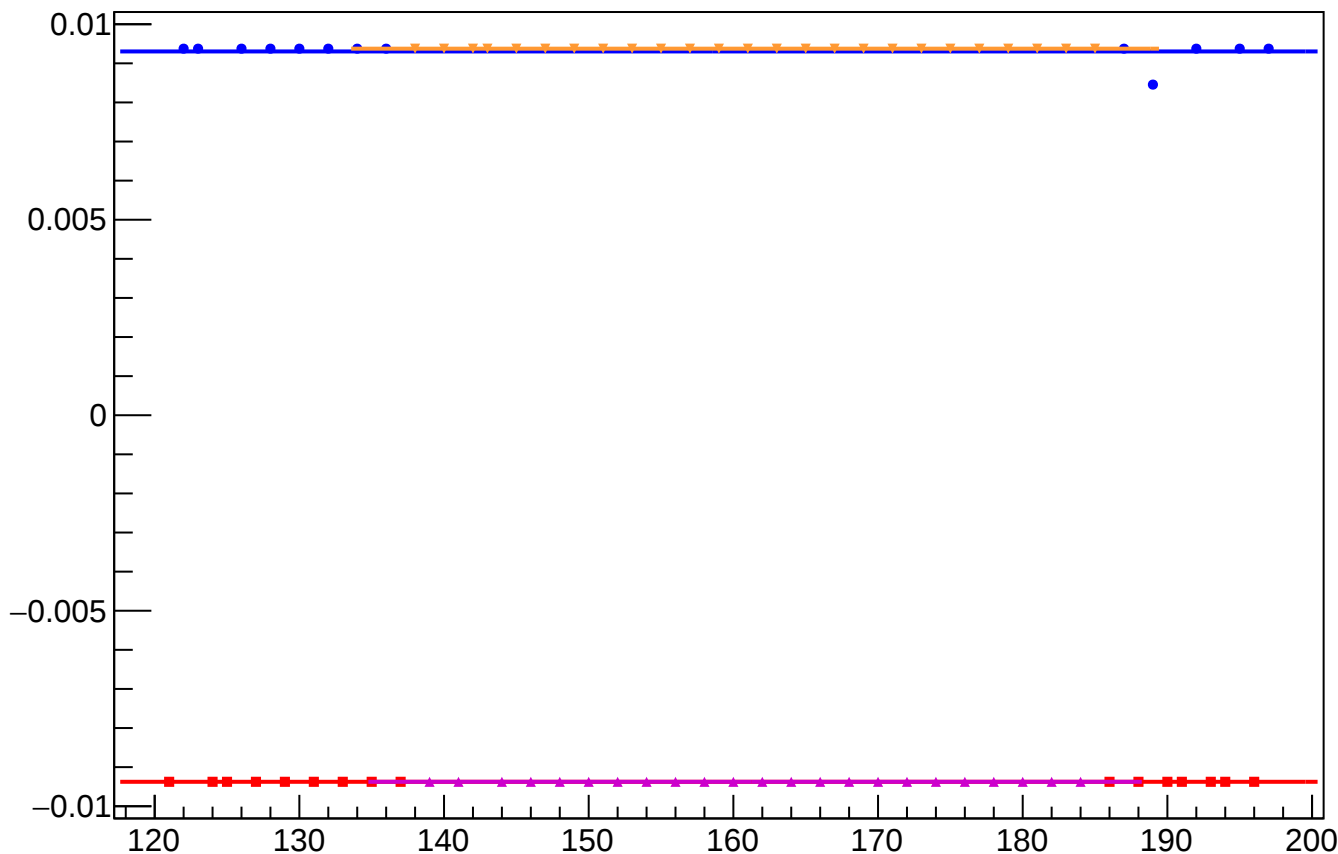
χ^2/NDF : 29696124063603

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 970.367+/-0.000 χ^2/NDF : 432270508780676184899142733583613952.0/12
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.746+/-0.000 χ^2/NDF : 1647331981306011460124004057088.0/15
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: -0.189+/-0.000 χ^2/NDF : 4904619153803

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39764507341833249761525760.0/12

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 : 1232615900152341

In: -0.004+/-0.000

χ^2/NDF : 169188395981749526

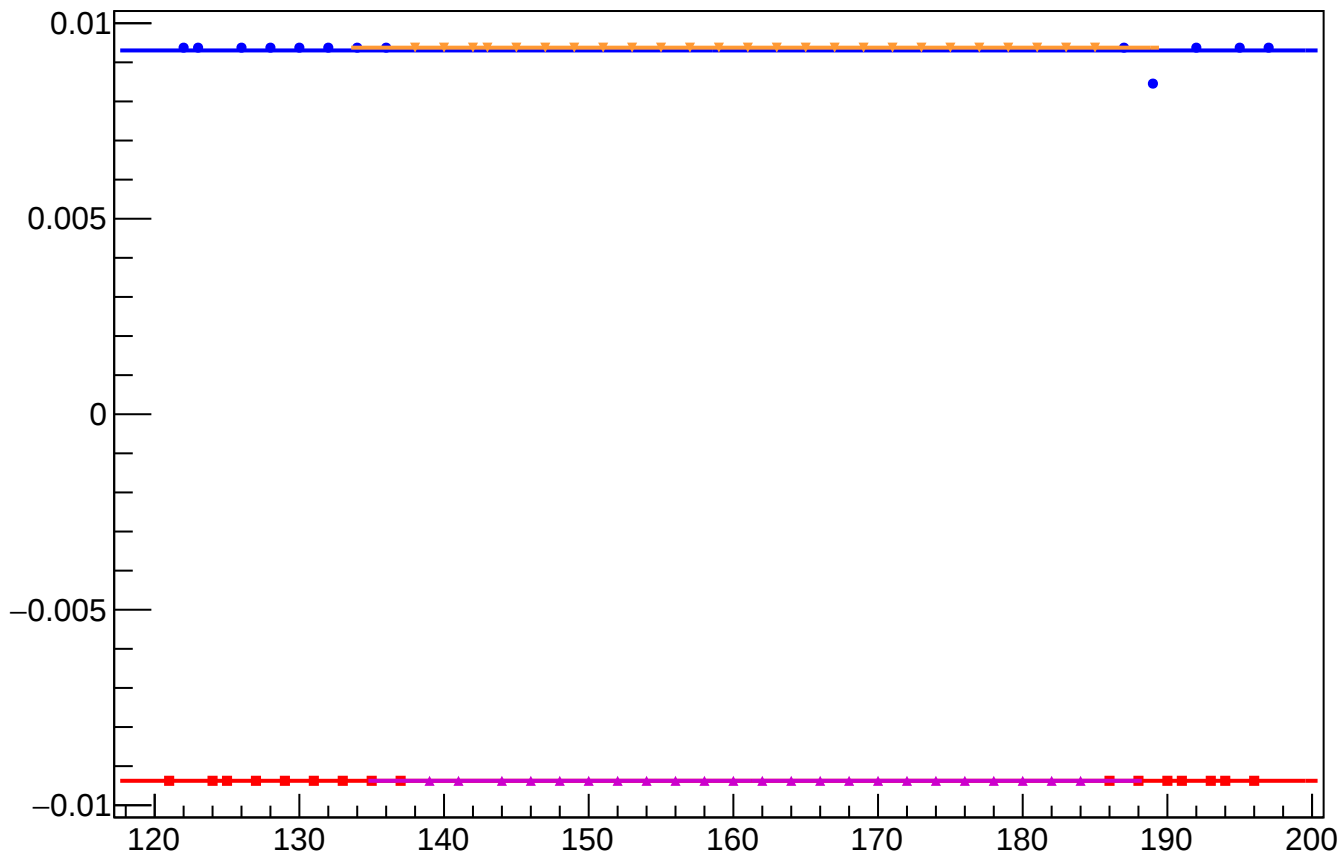
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

χ^2/NDF : 4509219727903

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 39764507341833249761525760.0/12

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 : 1232615900152341

In: -0.004+/-0.000

χ^2/NDF : 169188395981749526

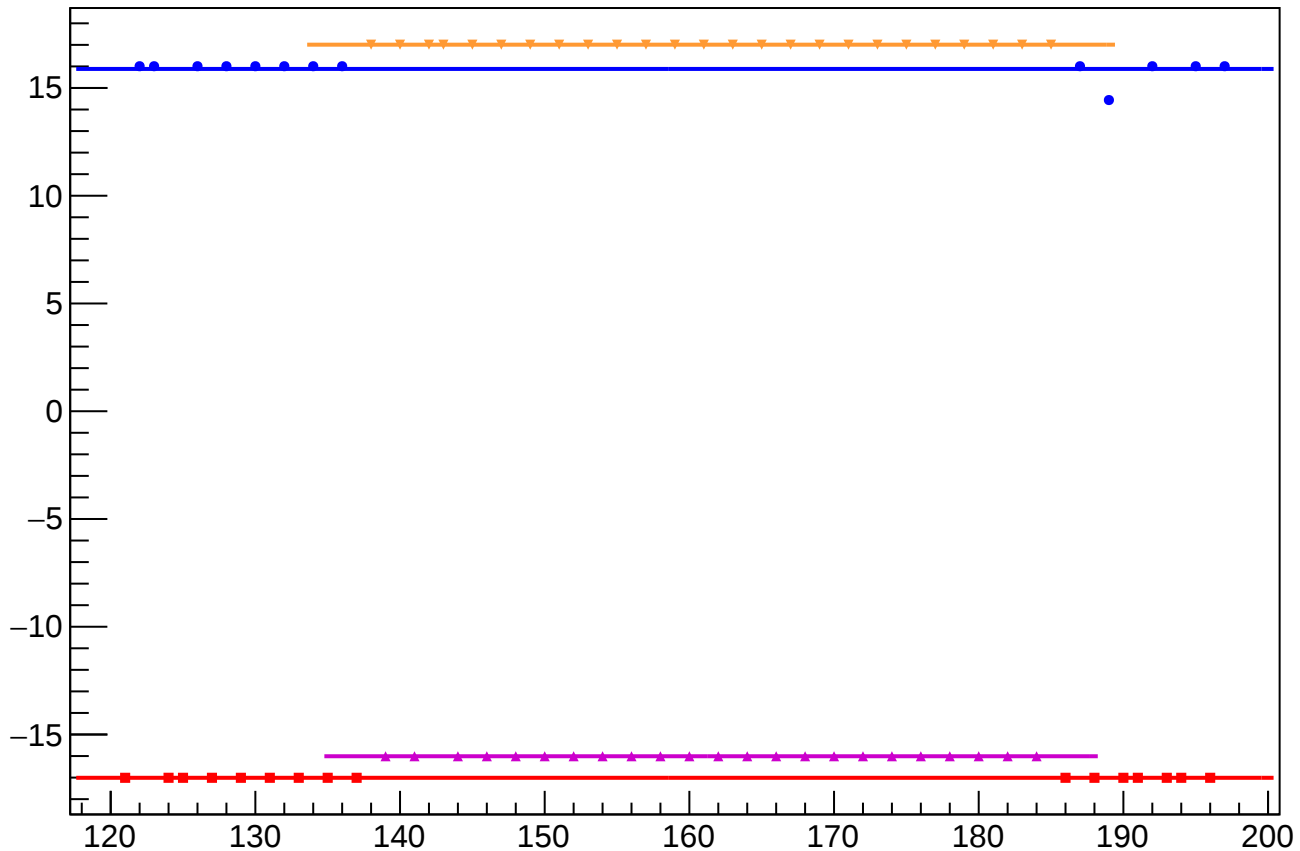
Out: 0.004+/-0.000

χ^2/NDF : 190593802727783523

All: -0.000+/-0.000

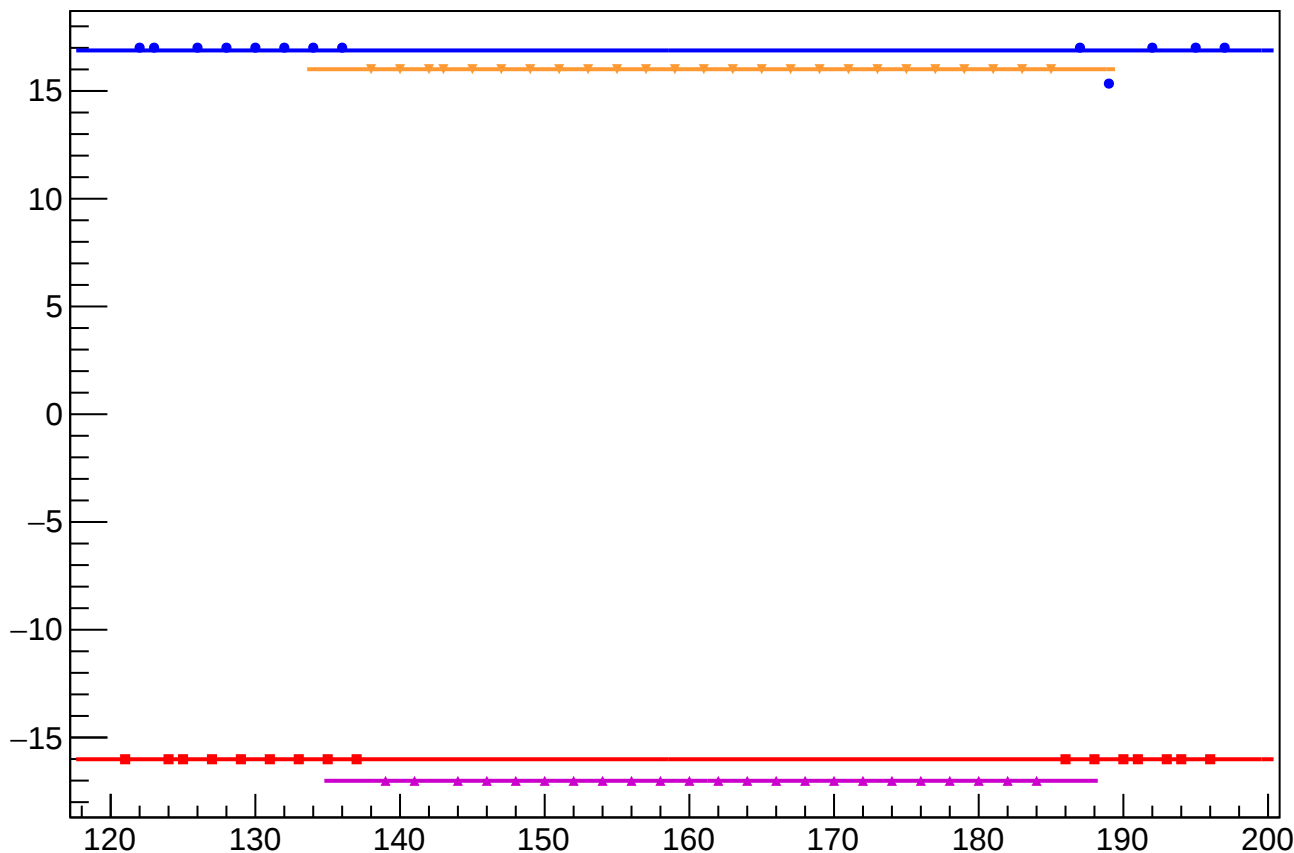
χ^2/NDF : 4509219727903

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



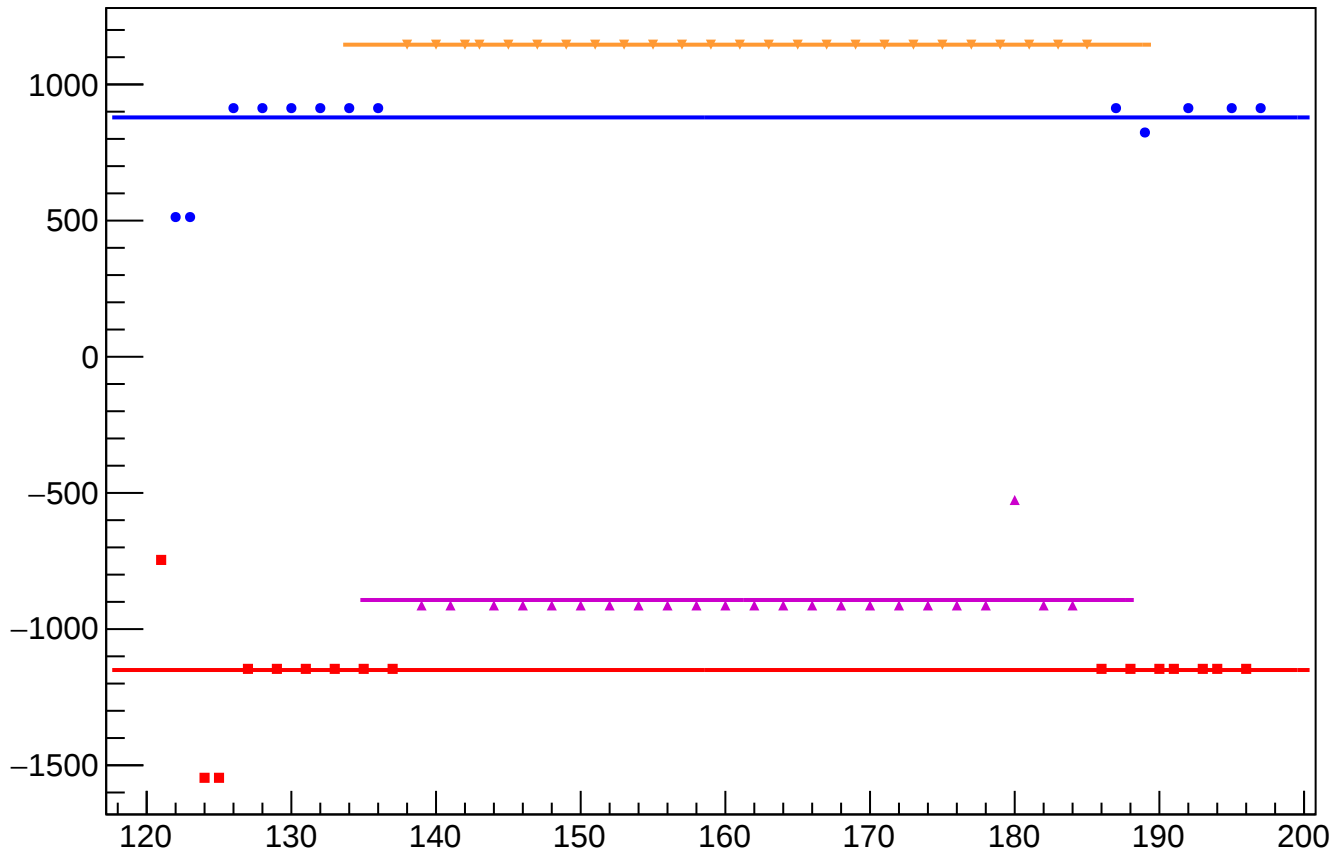
Right In: 15.884 $\pm$ 0.000 χ^2 /NDF: 115562608996188066045380639326208.0/12
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 12432142634261846320742400.0/15
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.154 $\pm$ 0.000 χ^2 /NDF: 13197243191177

IGL1I00OD16_16_mean vs Slug, Sign Corrected



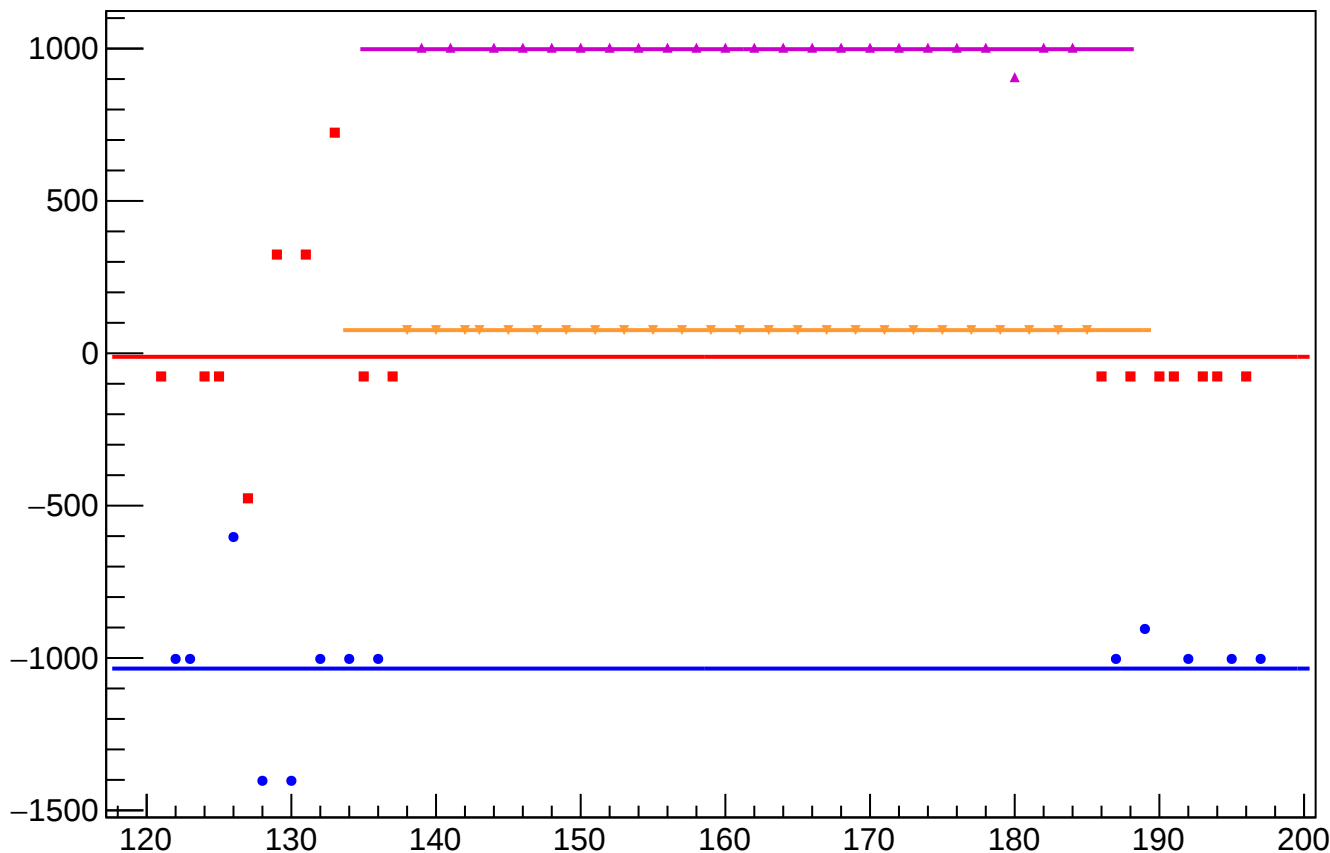
Right In: 16.881+/-0.000	χ^2/NDF : 130897021763498746106506886774784.0/12	Left: 0.042+/-0.000	χ^2/NDF : 99431233770062905
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.665+/-0.000	χ^2/NDF : 3821689521331545
Right Out: -16.009+/-0.000	χ^2/NDF : 179418.5/15	In: -7.769+/-0.000	χ^2/NDF : 553162927063089766
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 6.839+/-0.000	χ^2/NDF : 553795154115204924
		All: -0.156+/-0.000	χ^2/NDF : 1376993097283

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 878.908 $\pm$ 0.000 χ^2 /NDF: 6839507457362453617205527362289008640.0/12
 Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 8041760976861450519237885952.0/24
 Right Out: -1150.237 $\pm$ 0.000 χ^2 /NDF: 13747136785110119753497484238958624768.0/15
 Left In: -893.116 $\pm$ 0.000 χ^2 /NDF: 13219826761707982974212661987208331264.0/22
 All: 54.972 $\pm$ 0.000 χ^2 /NDF: 5484239383436

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1034.689+/-0.000

χ^2/NDF : 23027557478428664151266249632135512064.0/12

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: 244.921+/-0.000 χ^2/NDF : 228311653163