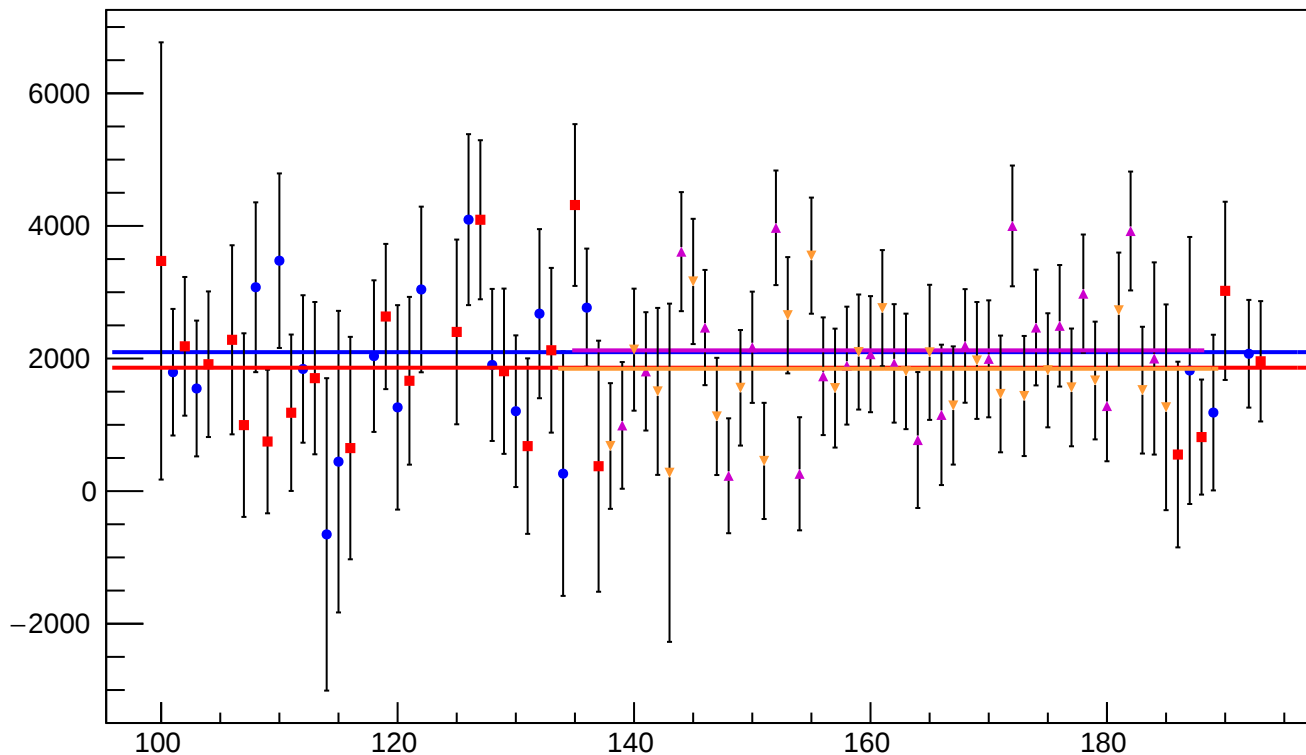


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2096.211+/-277.038

Left Out: 1845.799+/-186.902

Right Out: 1861.493+/-261.527

Left In: 2123.138+/-188.684

χ^2/NDF : 10.3/18

χ^2/NDF : 15.5/24

χ^2/NDF : 15.5/21

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1972.098+/-190.175

In: 2114.606+/-155.950

Out: 1851.105+/-152.062

All: 1979.530+/-108.872

χ^2/NDF : 48.6/47

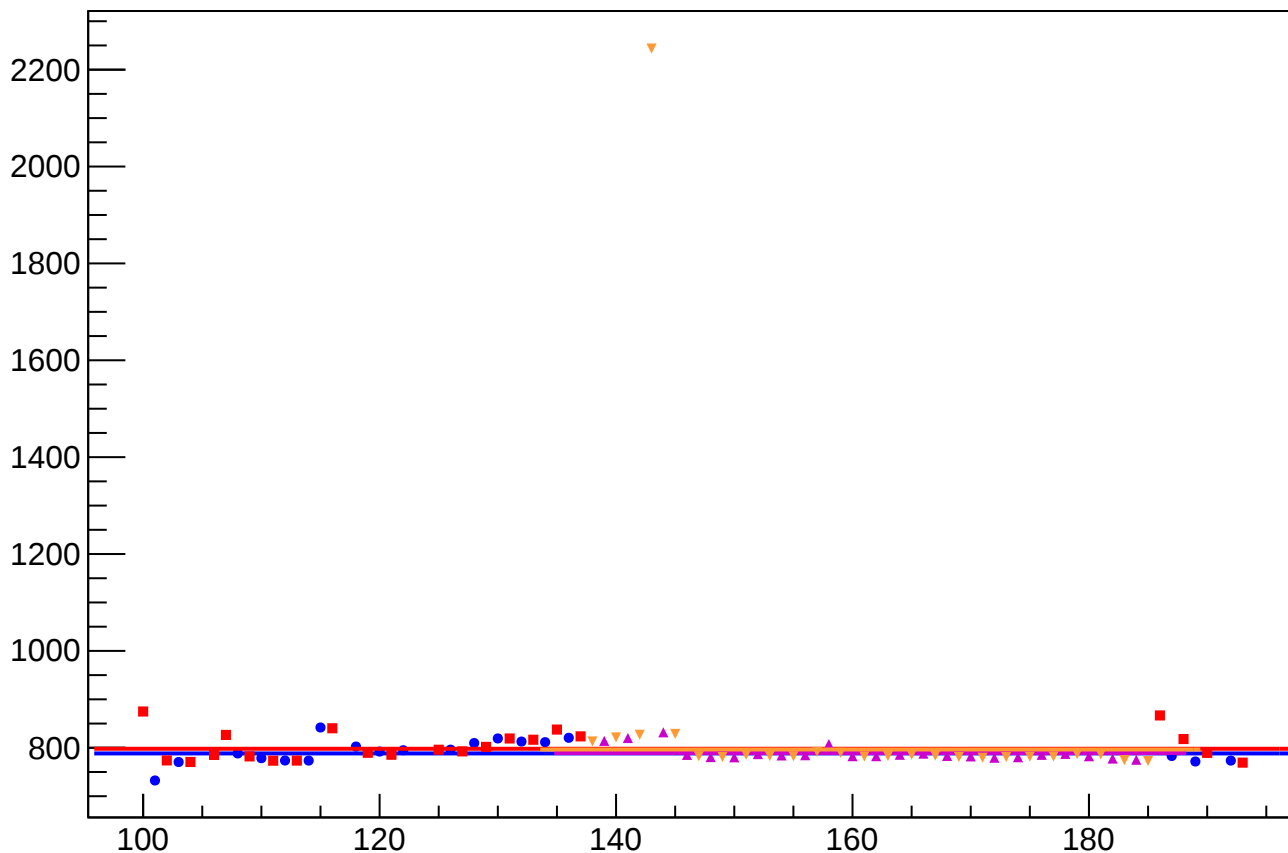
χ^2/NDF : 26.1/40

χ^2/NDF : 42.3/41

χ^2/NDF : 31.0/46

χ^2/NDF : 74.7/88

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 788.332 $\pm$ 0.196 χ^2 /NDF: 16440.0/18

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

Right Out: 797.949 $\pm$ 0.185 χ^2 /NDF: 19638.8/21

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

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

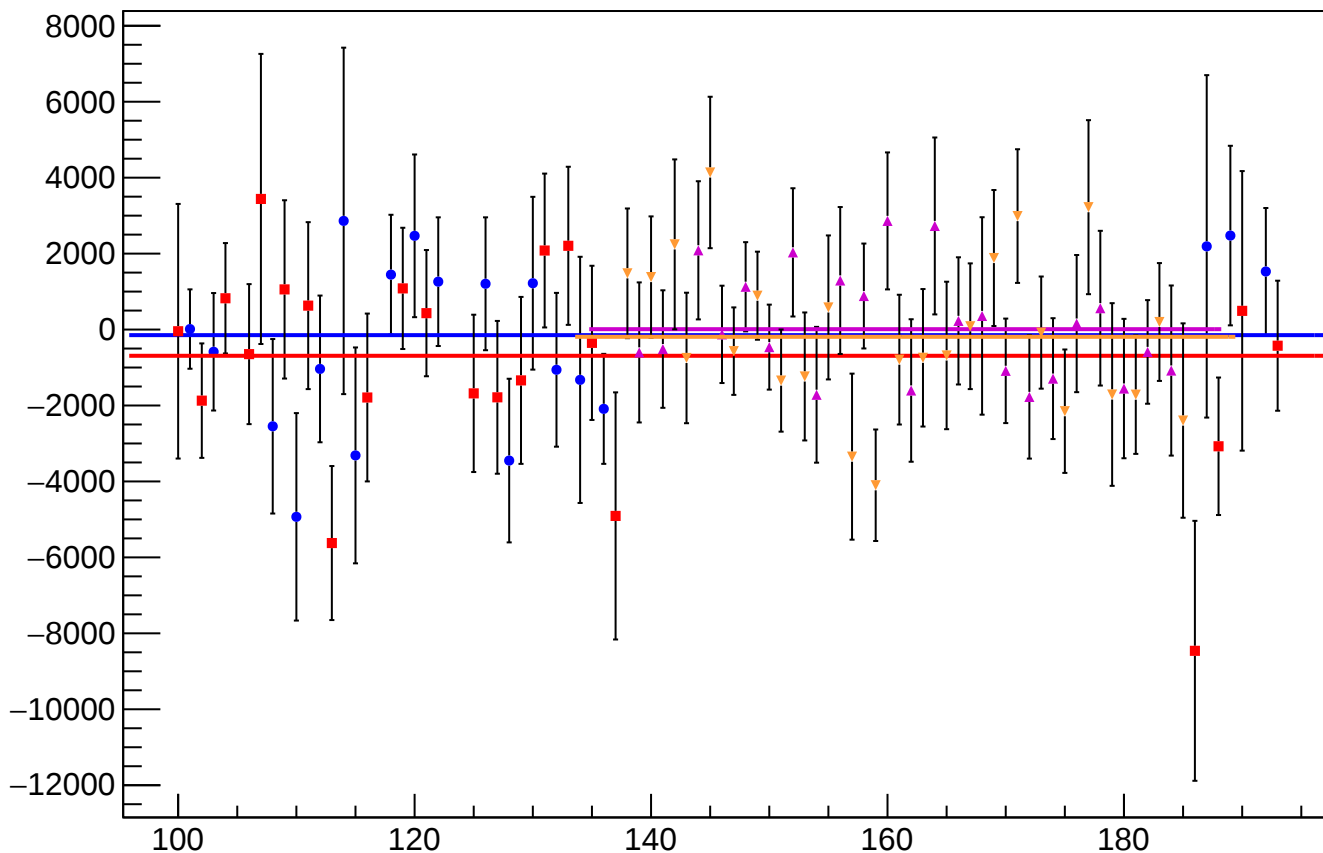
Right: 793.417 $\pm$ 0.134 χ^2 /NDF: 37353.1/40

In: 788.914 $\pm$ 0.110 χ^2 /NDF: 27796.1/41

Out: 796.951 $\pm$ 0.108 χ^2 /NDF: 678391.6/46

All: 793.034 $\pm$ 0.077 χ^2 /NDF: 708910.1/88

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -146.931+/-438.469 χ^2/NDF : 17.3/18

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

Right Out: -690.751+/-436.053 χ^2/NDF : 24.8/21

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

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

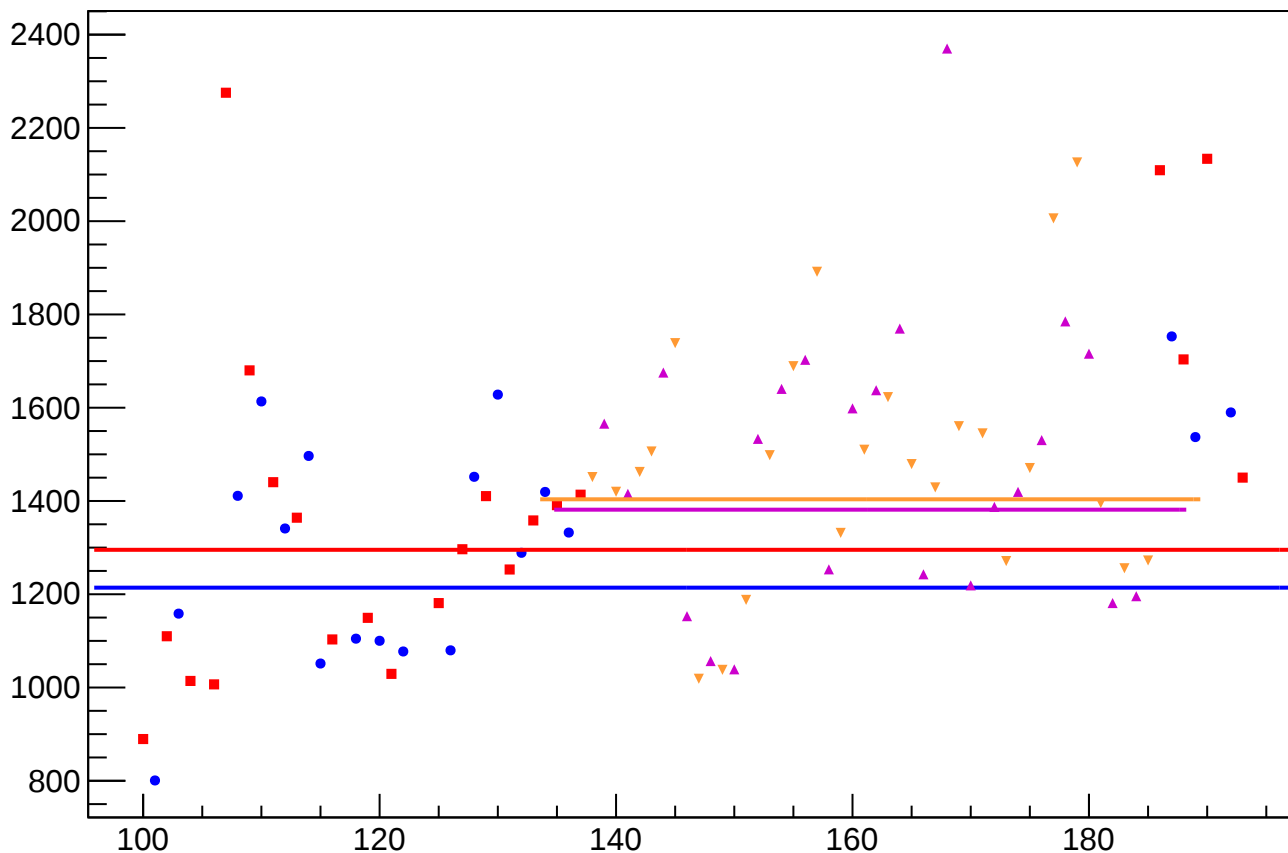
Right: -420.344+/-309.187 χ^2/NDF : 42.9/40

In: -48.395+/-267.601 χ^2/NDF : 31.6/41

Out: -375.738+/-265.107 χ^2/NDF : 55.8/46

All: -213.599+/-188.334 χ^2/NDF : 88.1/88

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1214.144 $\pm$ 0.310 χ^2/NDF : 717329.4/18

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

Right Out: 1295.301 $\pm$ 0.308 χ^2/NDF : 819076.8/21

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

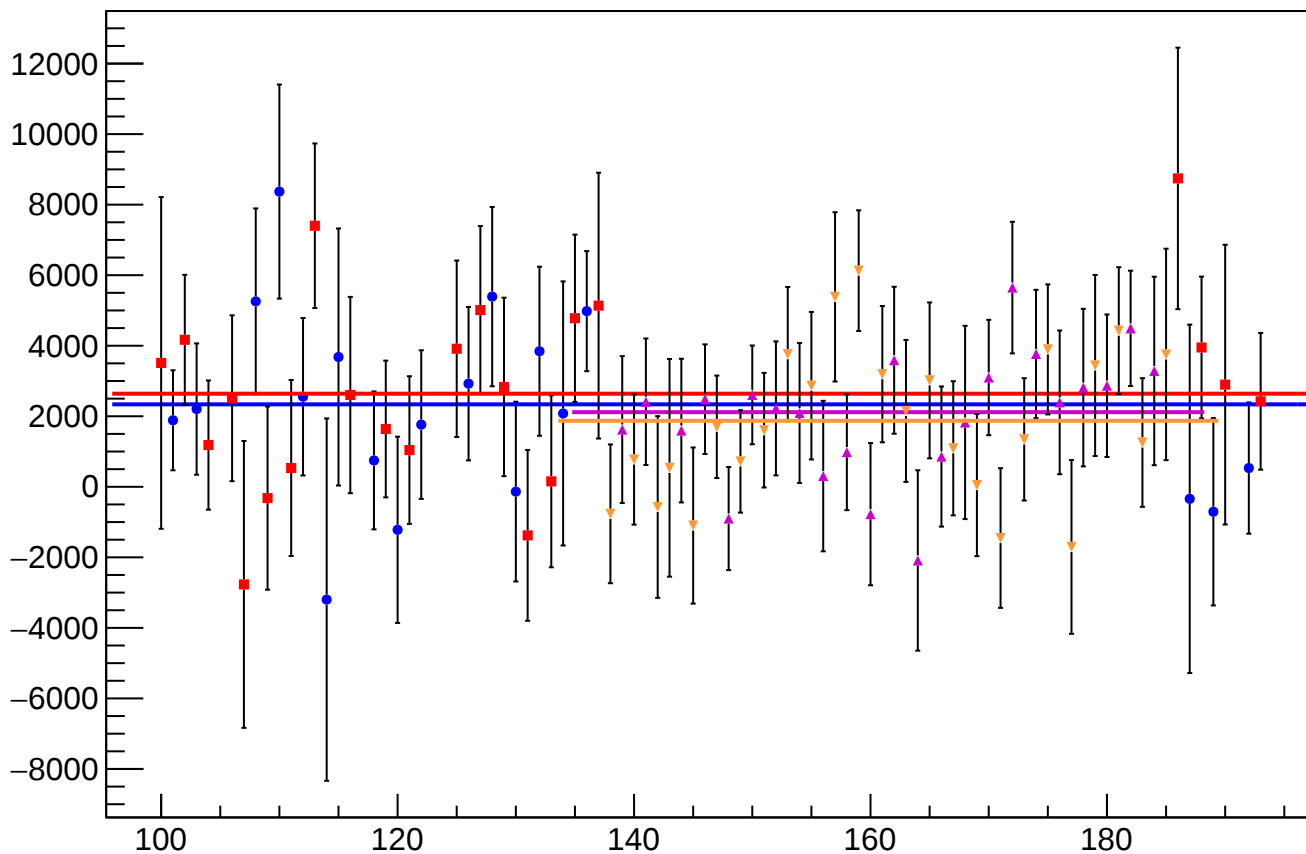
Right: 1254.947 $\pm$ 0.219 χ^2/NDF : 1570854.7/40

In: 1319.075 $\pm$ 0.189 χ^2/NDF : 2176346.7/41

Out: 1363.576 $\pm$ 0.187 χ^2/NDF : 2023383.0/46

All: 1341.534 $\pm$ 0.133 χ^2/NDF : 4227642.6/88

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2338.078+/-529.660 χ^2/NDF : 17.0/18

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

Right Out: 2639.750+/-518.172 χ^2/NDF : 19.6/21

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

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

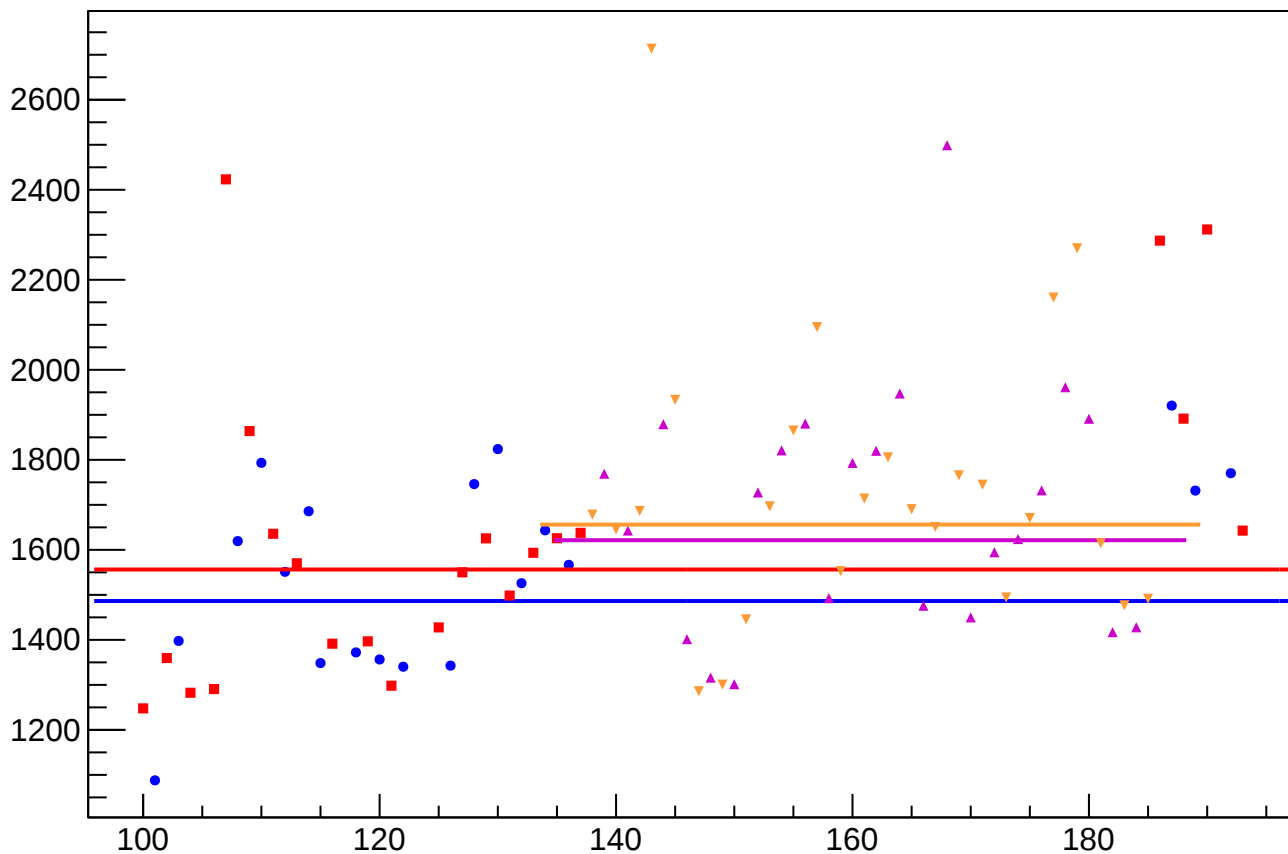
Right: 2492.221+/-370.398 χ^2/NDF : 36.7/40

In: 2194.925+/-315.608 χ^2/NDF : 35.9/41

Out: 2150.936+/-312.460 χ^2/NDF : 47.1/46

All: 2172.710+/-222.047 χ^2/NDF : 83.0/88

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1486.319 $\pm$ 0.375 χ^2 /NDF: 369110.4/18

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

Right Out: 1556.324 $\pm$ 0.366 χ^2 /NDF: 494595.2/21

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

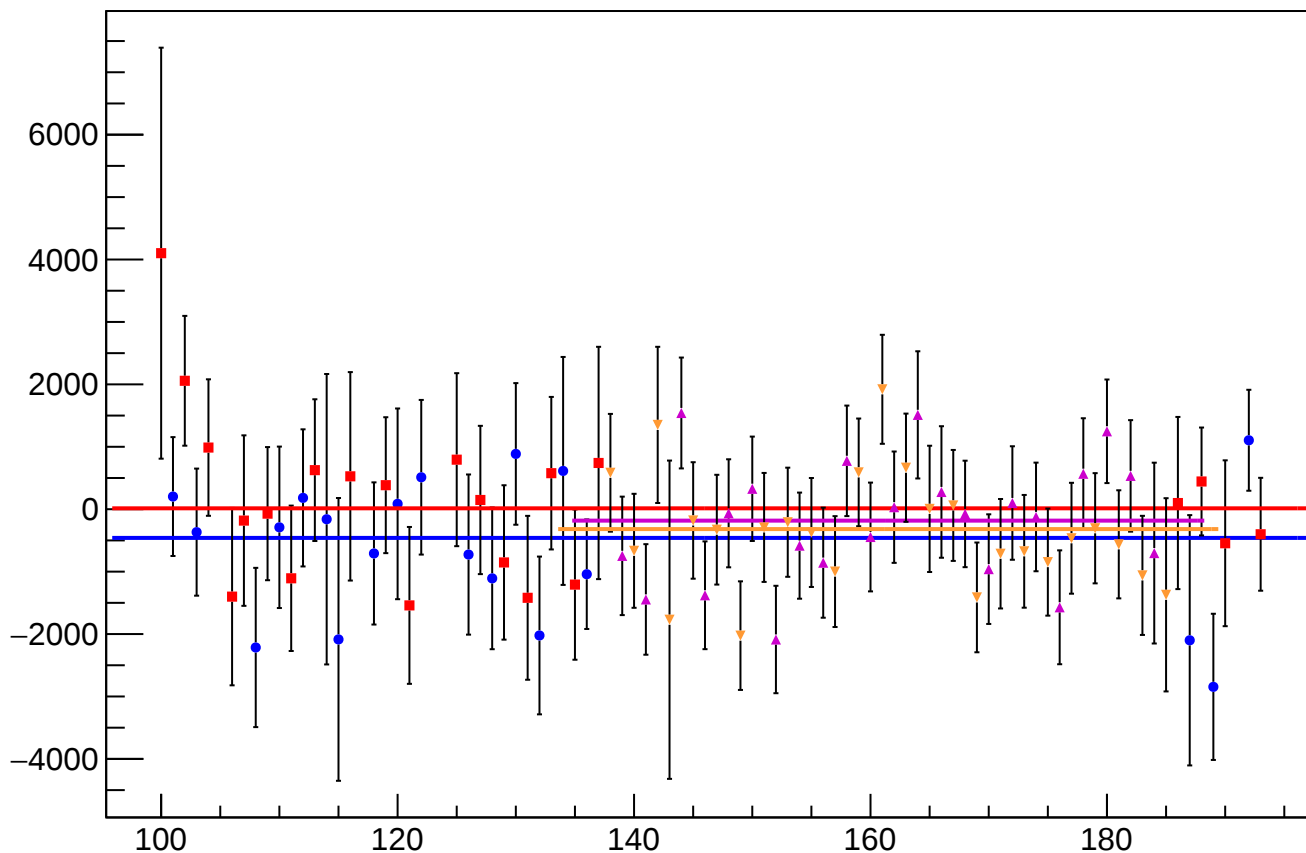
Right: 1522.089 $\pm$ 0.262 χ^2 /NDF: 881557.6/40

In: 1573.449 $\pm$ 0.223 χ^2 /NDF:1228338.0/41

Out: 1619.832 $\pm$ 0.221 χ^2 /NDF:1452377.1/46

All: 1596.873 $\pm$ 0.157 χ^2 /NDF: 2702530.3/88

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -459.699 ± 274.895 $\chi^2/\text{NDF}: 16.7/18$

Left Out: -318.336 ± 186.041 $\chi^2/\text{NDF}: 20.4/24$

Right Out: 14.192 ± 259.230 $\chi^2/\text{NDF}: 14.2/21$

Left In: -182.895 ± 187.817 $\chi^2/\text{NDF}: 26.1/22$

Left: -251.259 ± 132.174 $\chi^2/\text{NDF}: 46.8/47$

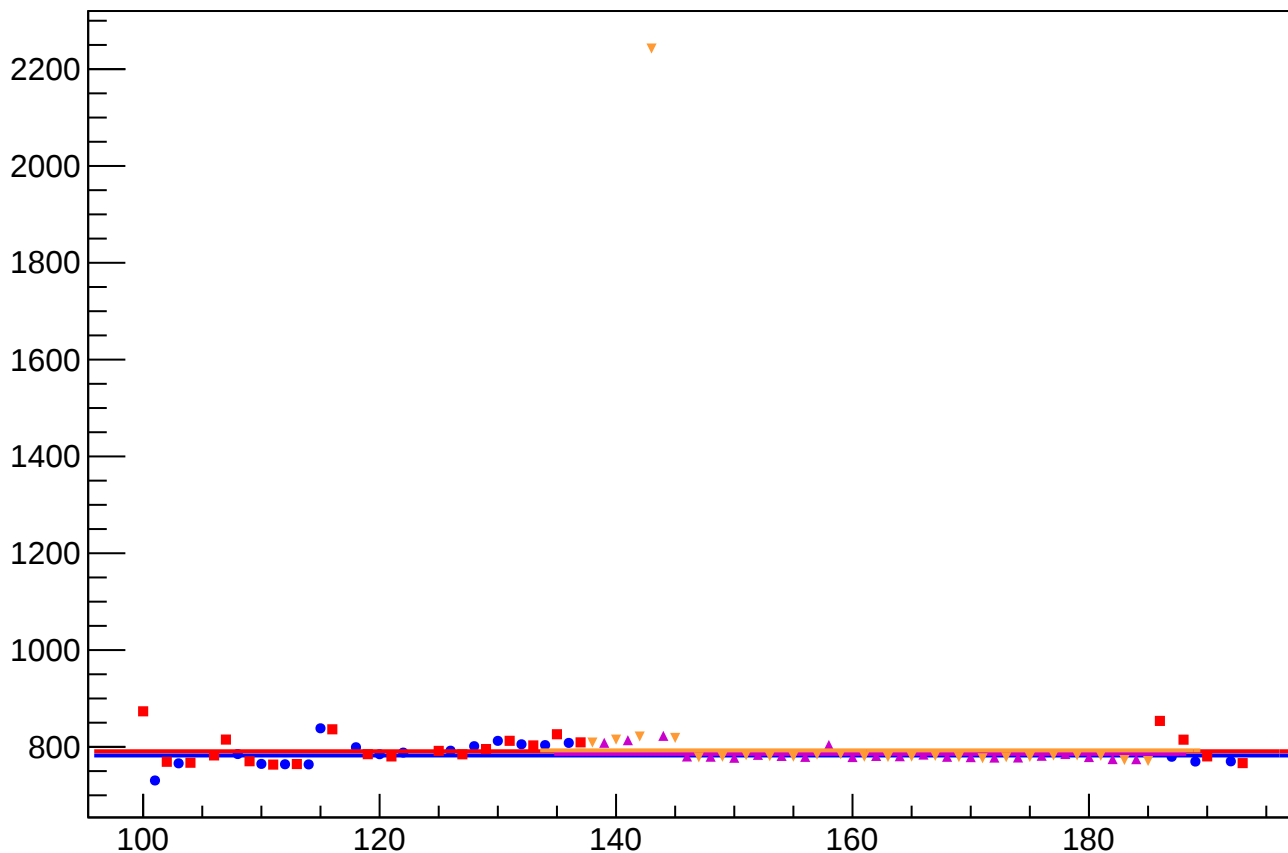
Right: -208.868 ± 188.598 $\chi^2/\text{NDF}: 32.5/40$

In: -270.987 ± 155.078 $\chi^2/\text{NDF}: 43.5/41$

Out: -205.292 ± 151.146 $\chi^2/\text{NDF}: 35.7/46$

All: -237.296 ± 108.239 $\chi^2/\text{NDF}: 79.3/88$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 782.279+/-0.194 χ^2/NDF : 14646.2/18

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

Right Out: 790.985+/-0.183 χ^2/NDF : 18376.9/21

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

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

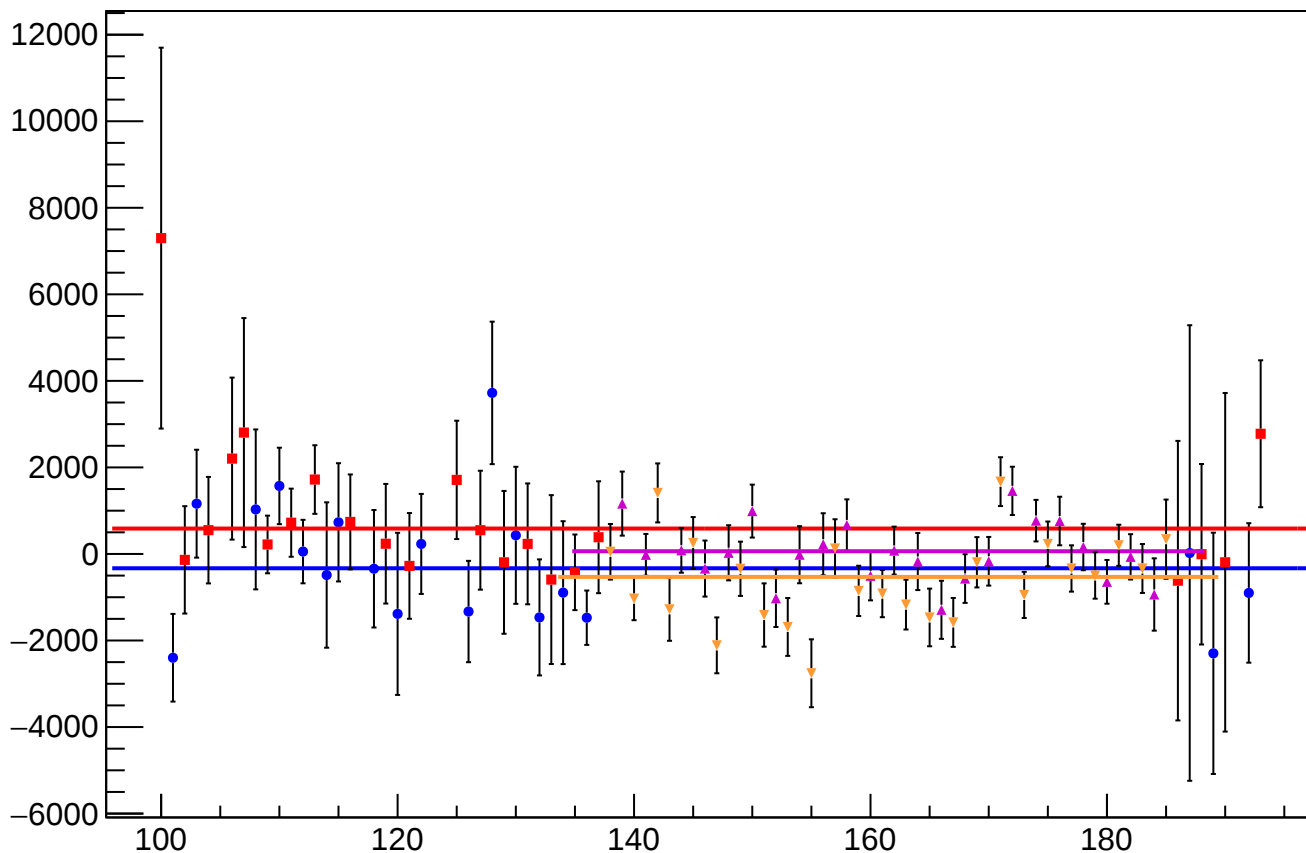
Right: 786.887+/-0.133 χ^2/NDF : 34084.8/40

In: 784.538+/-0.110 χ^2/NDF : 24218.0/41

Out: 792.177+/-0.107 χ^2/NDF : 677951.6/46

All: 788.455+/-0.077 χ^2/NDF : 704658.7/88

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -330.639+/-277.146 χ^2/NDF : 24.0/18

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

Right Out: 587.340+/-266.084 χ^2/NDF : 11.7/21

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

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

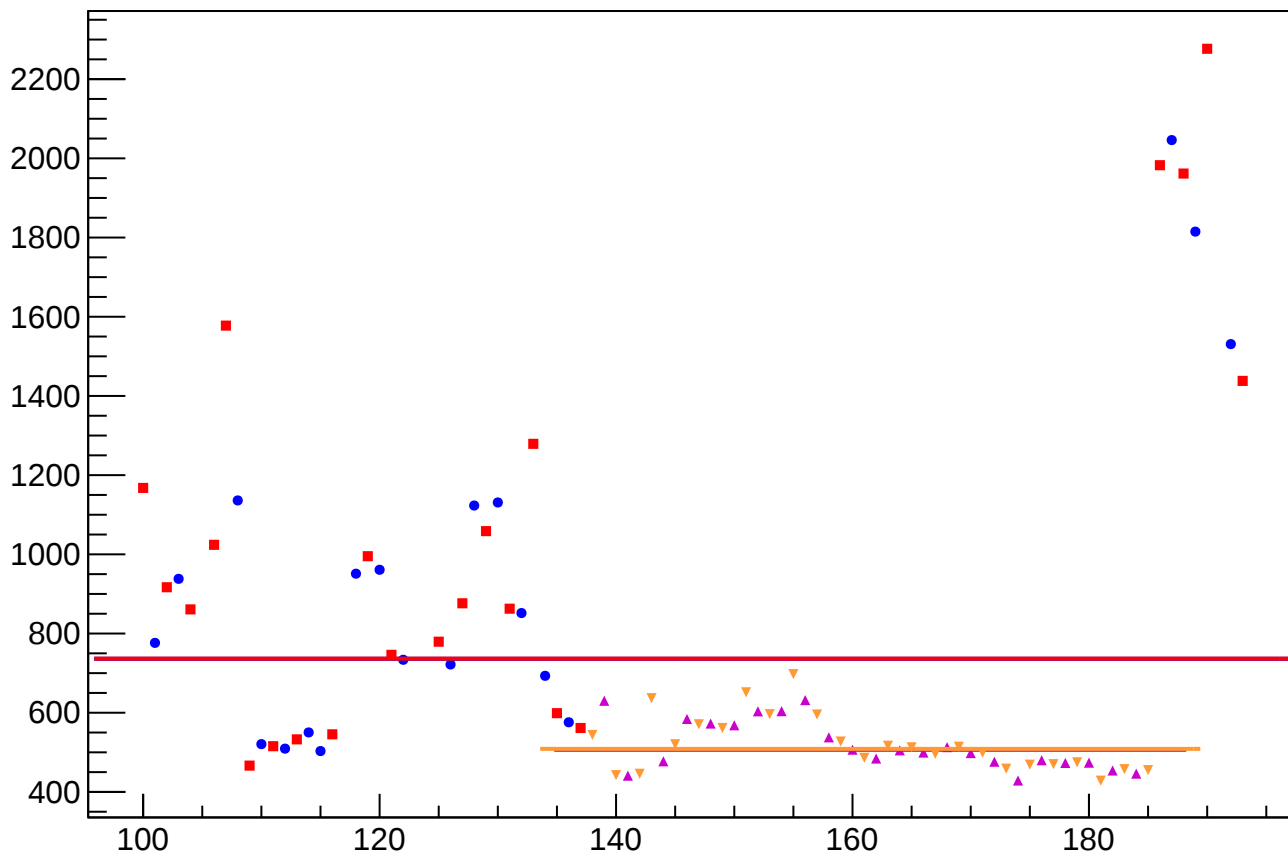
Right: 147.035+/-191.941 χ^2/NDF : 41.4/40

In: -1.131+/-111.695 χ^2/NDF :54.5/41

Out: -342.435+/-109.044 χ^2/NDF :88.0/46

All: -175.882+/-78.026 χ^2/NDF : 147.3/88

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 736.262+/-0.196 χ^2/NDF : 1912296.6/18

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

Right Out: 736.545+/-0.188 χ^2/NDF : 3075728.8/21

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

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

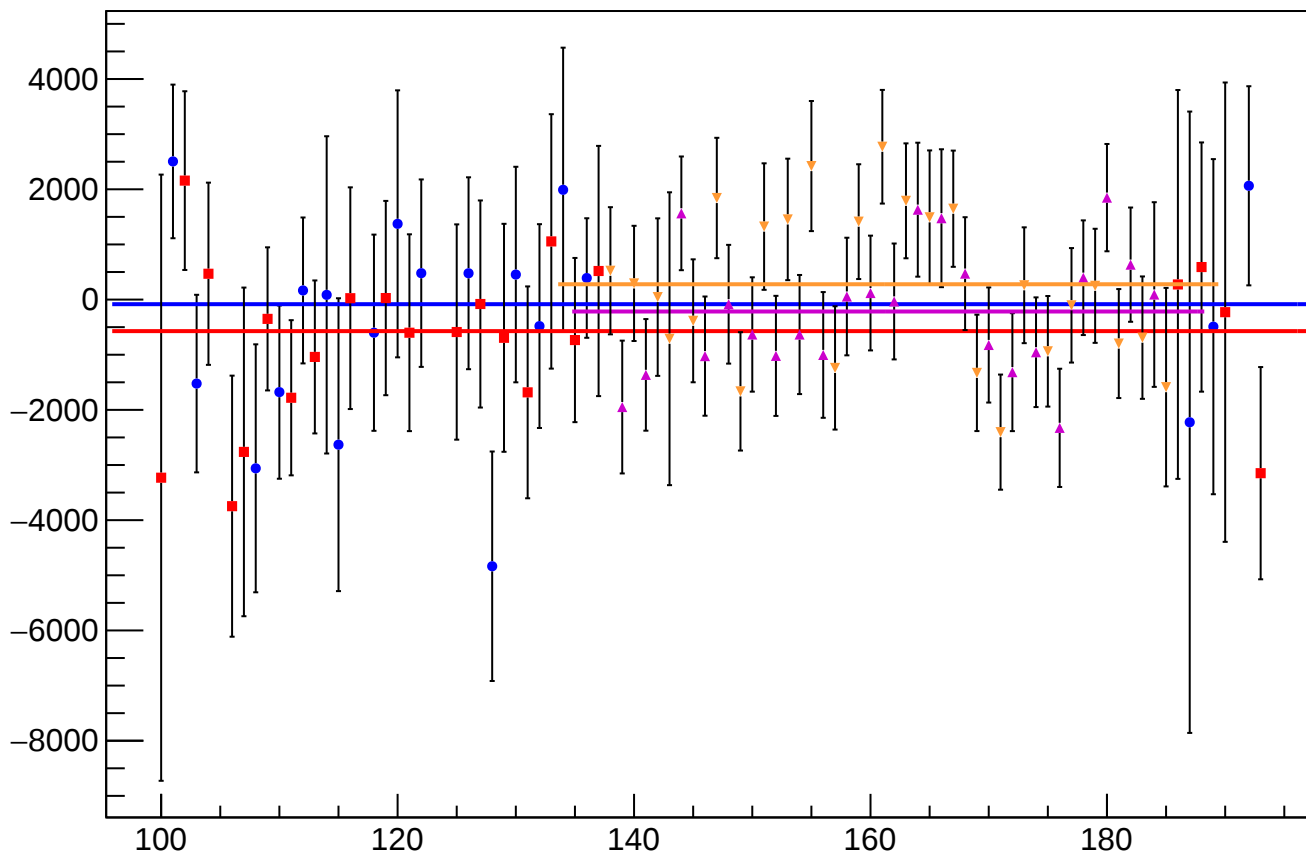
Right: 736.409+/-0.136 χ^2/NDF : 4988026.5/40

In: 543.719+/-0.079 χ^2/NDF : 3501108.8/41

Out: 547.025+/-0.077 χ^2/NDF : 4844372.5/46

All: 545.412+/-0.055 χ^2/NDF : 8346378.9/88

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -83.375 ± 417.582 $\chi^2/\text{NDF}: 16.4/18$

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

Right Out: -571.960 ± 406.162 $\chi^2/\text{NDF}: 10.2/21$

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

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

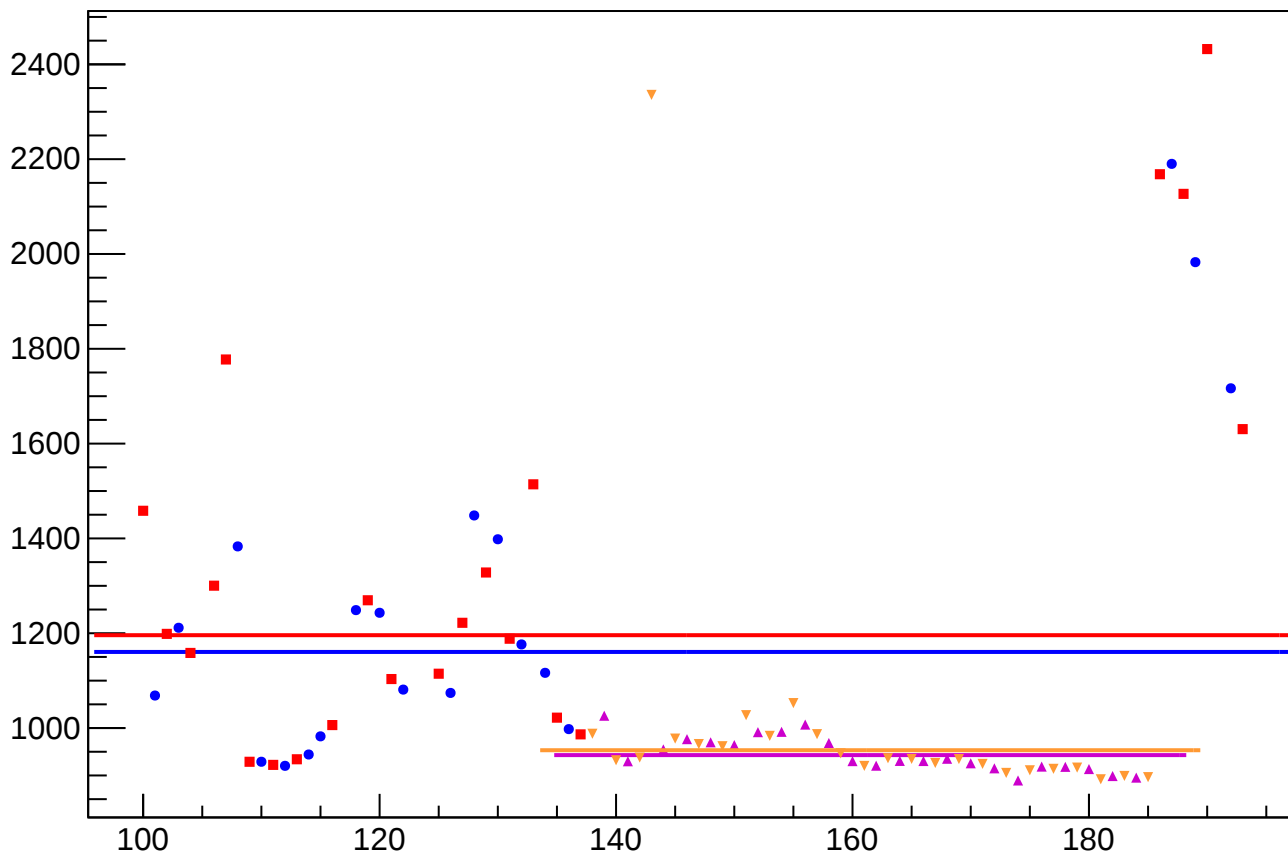
Right: -334.440 ± 291.153 $\chi^2/\text{NDF}: 27.3/40$

In: -186.130 ± 198.486 $\chi^2/\text{NDF}: 40.9/41$

Out: 80.410 ± 195.866 $\chi^2/\text{NDF}: 51.9/46$

All: -51.089 ± 139.415 $\chi^2/\text{NDF}: 93.7/88$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1160.543+/-0.295 χ^2/NDF : 693273.7/18

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

Right Out: 1195.881+/-0.287 χ^2/NDF : 1208076.7/21

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

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

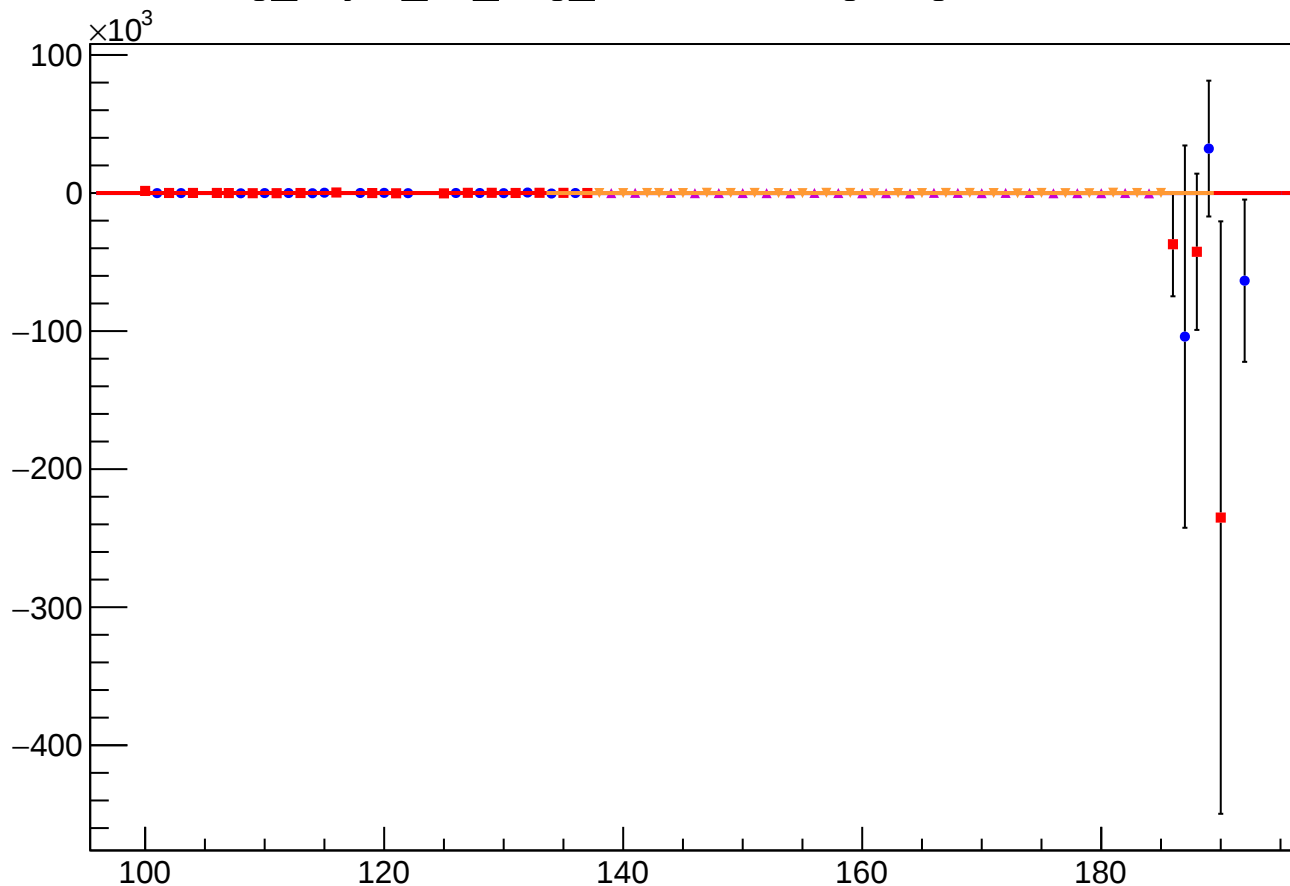
Right: 1178.702+/-0.206 χ^2/NDF : 1908710.3/40

In: 992.093+/-0.140 χ^2/NDF : 1162122.3/41

Out: 1009.652+/-0.138 χ^2/NDF : 2362218.8/46

All: 1000.989+/-0.099 χ^2/NDF : 3532271.3/88

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.561 ± 30.032 χ^2/NDF : 18.1/18

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

Right Out: 31.713 ± 30.492 χ^2/NDF : 19.5/20

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

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

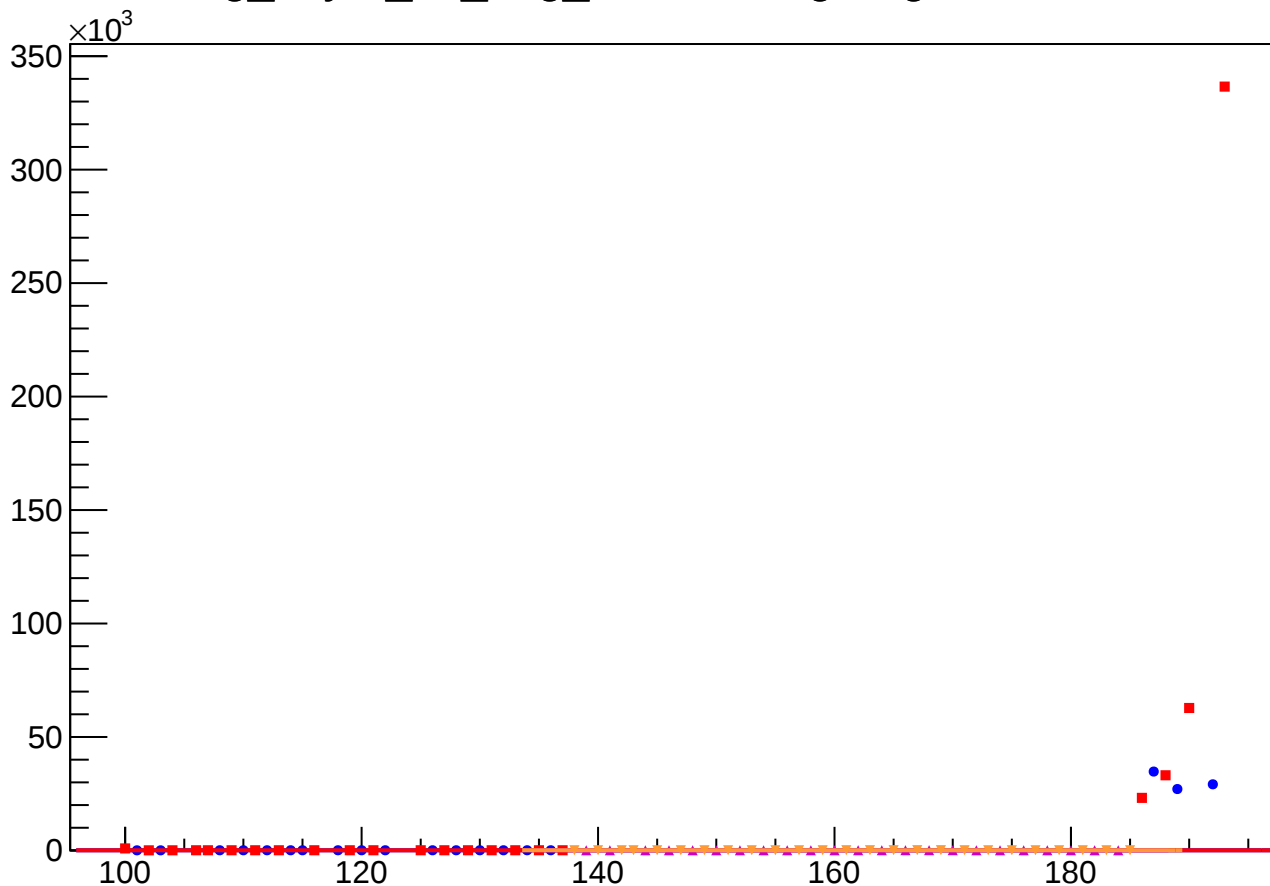
Right: 7.717 ± 21.397 χ^2/NDF : 38.9/39

In: -20.421 ± 17.527 χ^2/NDF : 40.7/41

Out: 13.270 ± 17.272 χ^2/NDF : 42.6/45

All: -3.328 ± 12.302 χ^2/NDF : 85.1/87

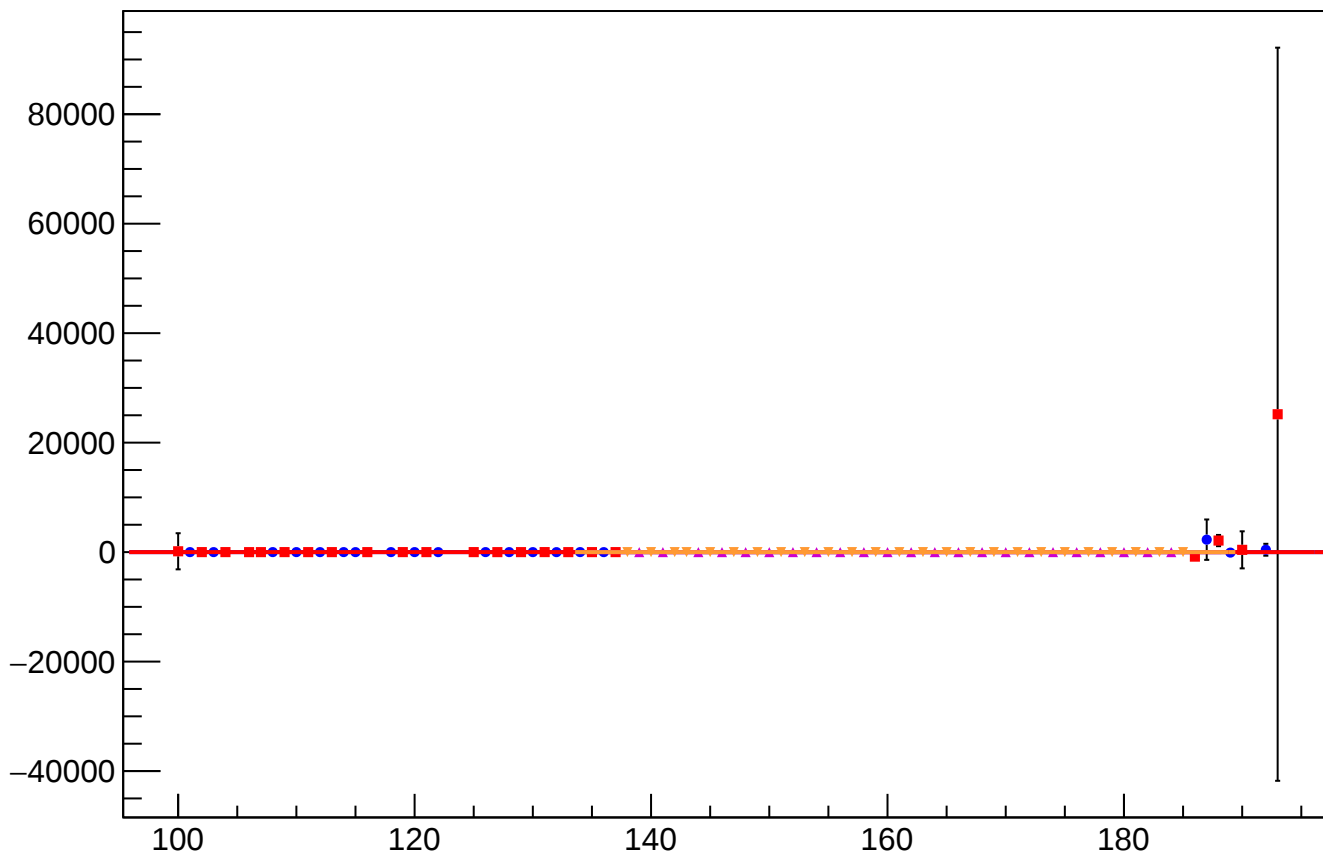
reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.073 $\pm$ 0.021 χ^2 /NDF: 1637270.8/18
 Left Out: 89.483 $\pm$ 0.015 χ^2 /NDF: 470330.2/24
 Right Out: 79.397 $\pm$ 0.022 χ^2 /NDF: 2050131.6/21
 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: 77.710 $\pm$ 0.015 χ^2 /NDF: 3699470.1/40
 In: 84.990 $\pm$ 0.012 χ^2 /NDF: 2413163.5/41
 Out: 86.247 $\pm$ 0.012 χ^2 /NDF: 2669075.4/46
 All: 85.627 $\pm$ 0.009 χ^2 /NDF: 5087459.8/88

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 21.5/18

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

Right Out: 0.039 ± 0.525 χ^2/NDF : 15.3/21

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

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

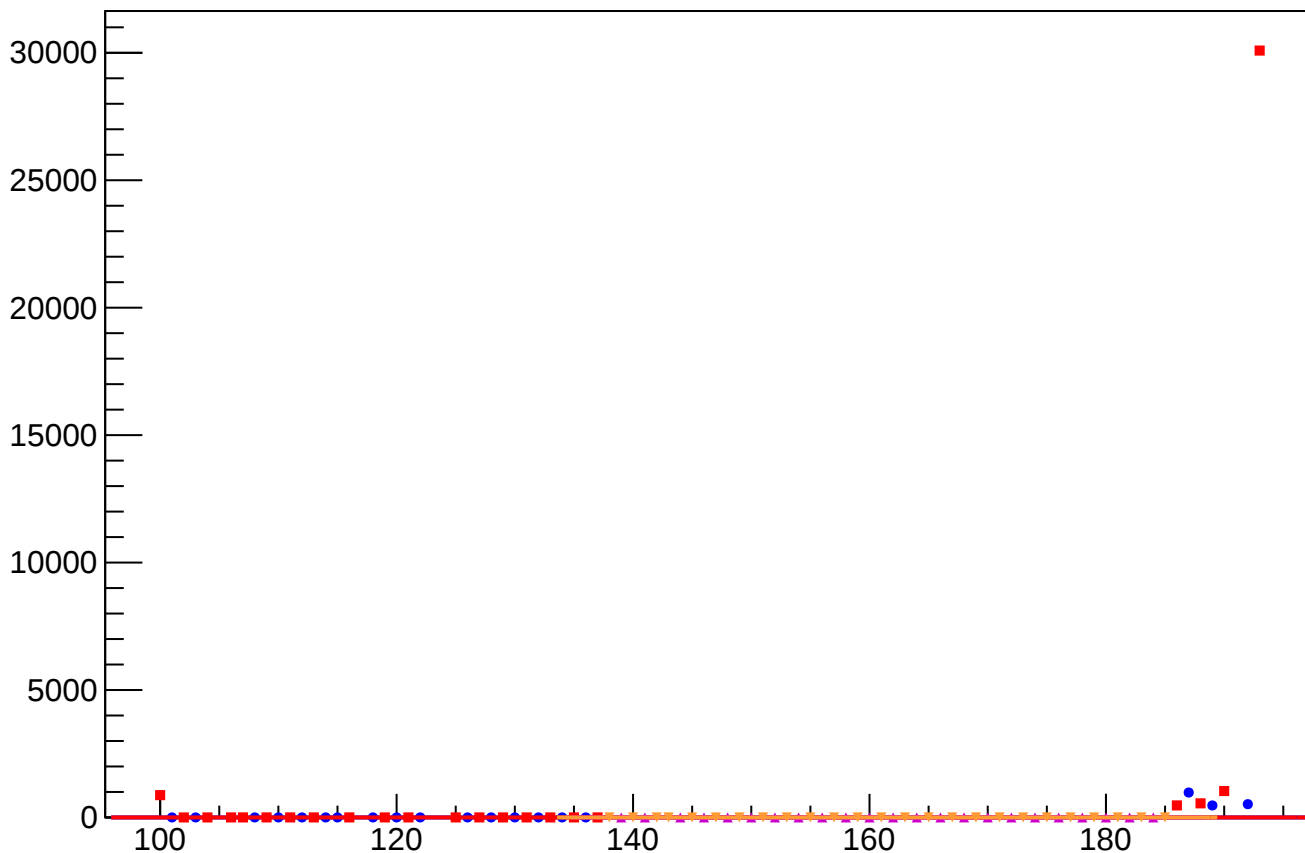
Right: -0.133 ± 0.363 χ^2/NDF : 37.0/40

In: -0.433 ± 0.306 χ^2/NDF : 47.9/41

Out: 0.103 ± 0.301 χ^2/NDF : 36.7/46

All: -0.160 ± 0.215 χ^2/NDF : 86.2/88

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152+/-0.000 χ^2/NDF : 1628216.4/18

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

Right Out: 1.259+/-0.000 χ^2/NDF : 2353559.1/21

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

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

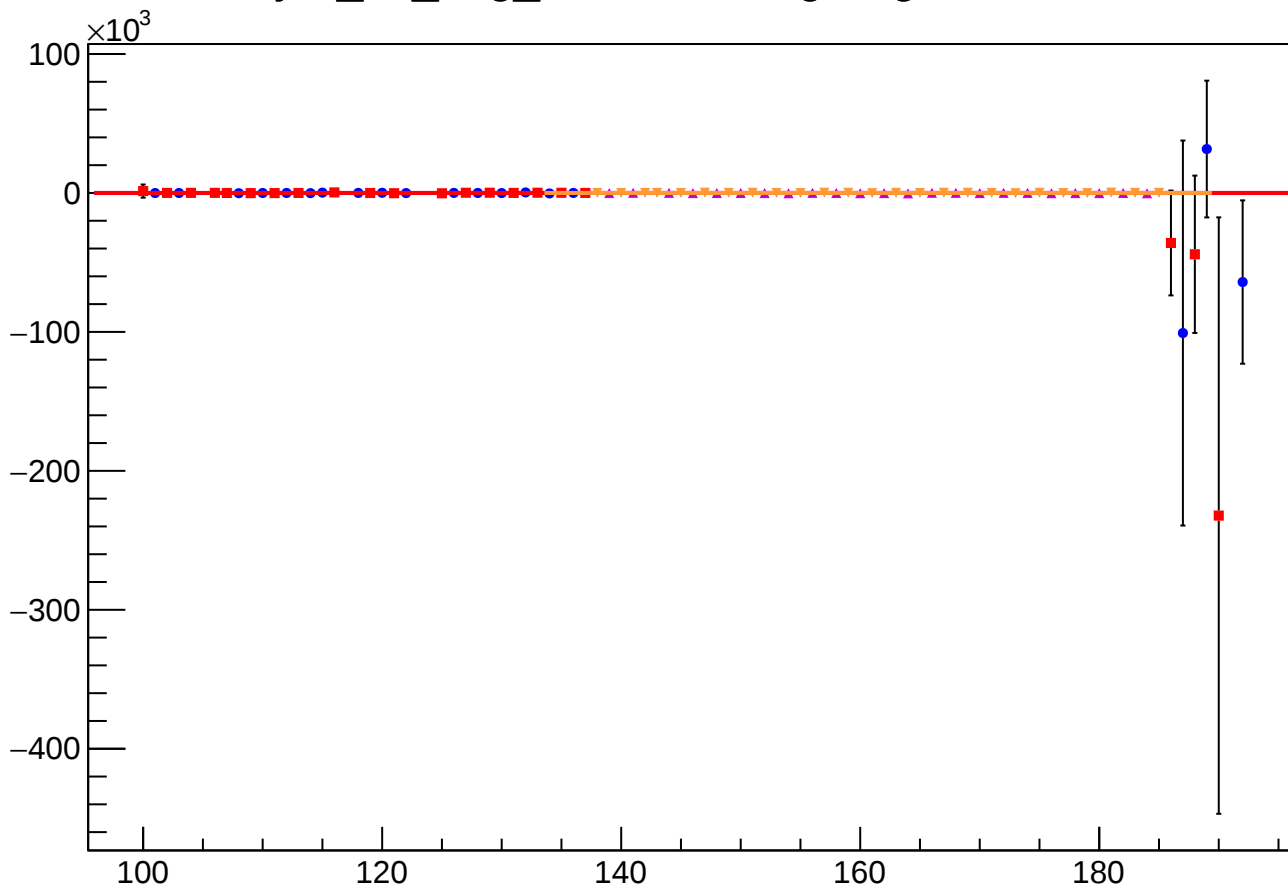
Right: 1.203+/-0.000 χ^2/NDF : 4025226.7/40

In: 1.341+/-0.000 χ^2/NDF :3075018.9/41

Out: 1.357+/-0.000 χ^2/NDF :3448127.2/46

All: 1.349+/-0.000 χ^2/NDF : 6525796.6/88

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.497+/-30.040 χ^2 /NDF: 18.4/18

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

Right Out: 31.992+/-30.500 χ^2 /NDF: 19.5/20

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

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

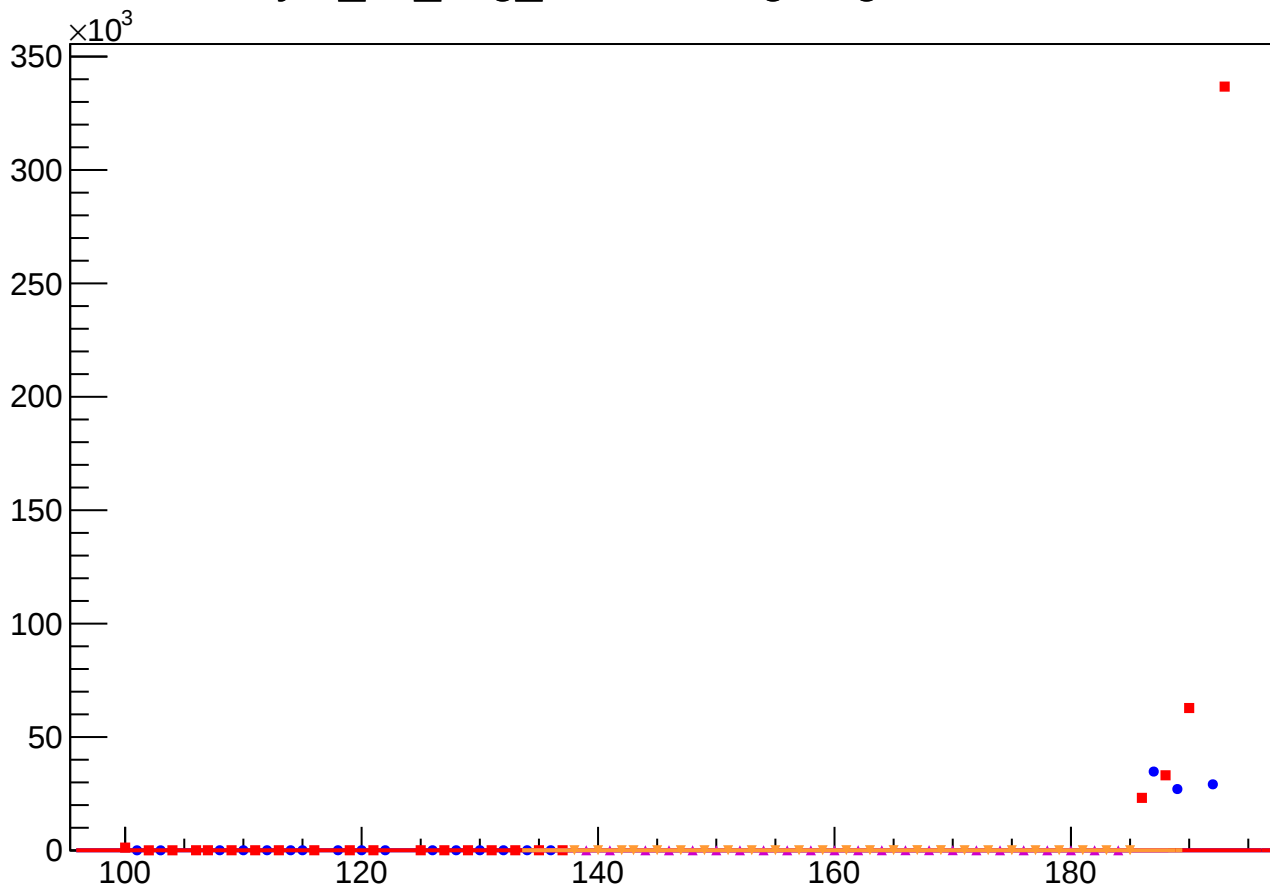
Right: 8.394+/-21.402 χ^2 /NDF: 39.0/39

In: -19.738+/-17.532 χ^2 /NDF:40.7/41

Out: 13.266+/-17.277 χ^2 /NDF:42.2/45

All: -2.994+/-12.306 χ^2 /NDF: 84.7/87

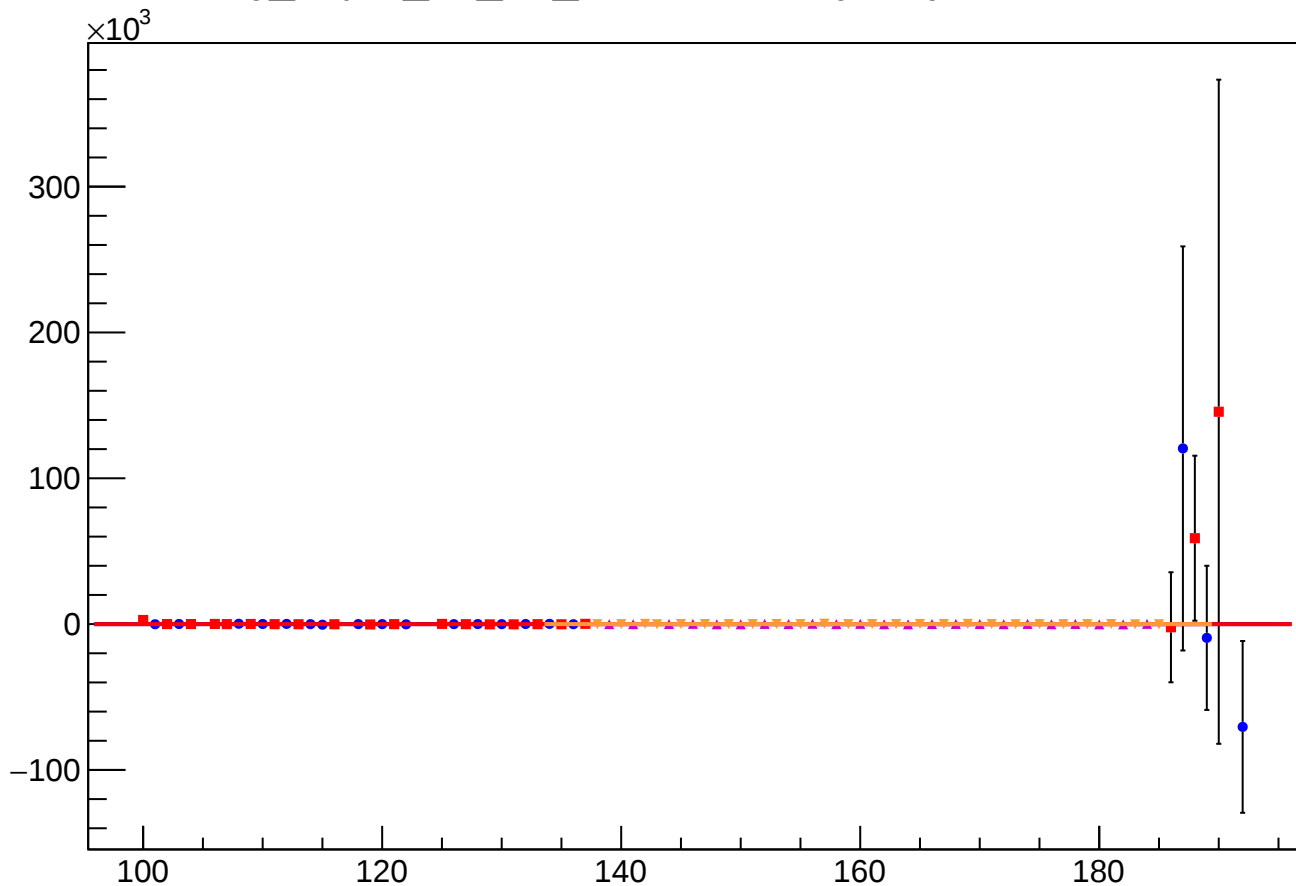
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.093 $\pm$ 0.021 χ^2 /NDF: 1637293.8/18
 Left Out: 89.510 $\pm$ 0.015 χ^2 /NDF: 471081.1/24
 Right Out: 79.401 $\pm$ 0.022 χ^2 /NDF: 2056661.6/21
 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: 77.721 $\pm$ 0.015 χ^2 /NDF: 3705897.6/40
 In: 85.014 $\pm$ 0.012 χ^2 /NDF: 2414189.5/41
 Out: 86.266 $\pm$ 0.012 χ^2 /NDF: 2676951.0/46
 All: 85.649 $\pm$ 0.009 χ^2 /NDF: 5096316.5/88

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.097 ± 30.012 $\chi^2/\text{NDF}: 16.2/18$

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

Right Out: -25.756 ± 30.473 $\chi^2/\text{NDF}: 14.3/20$

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

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

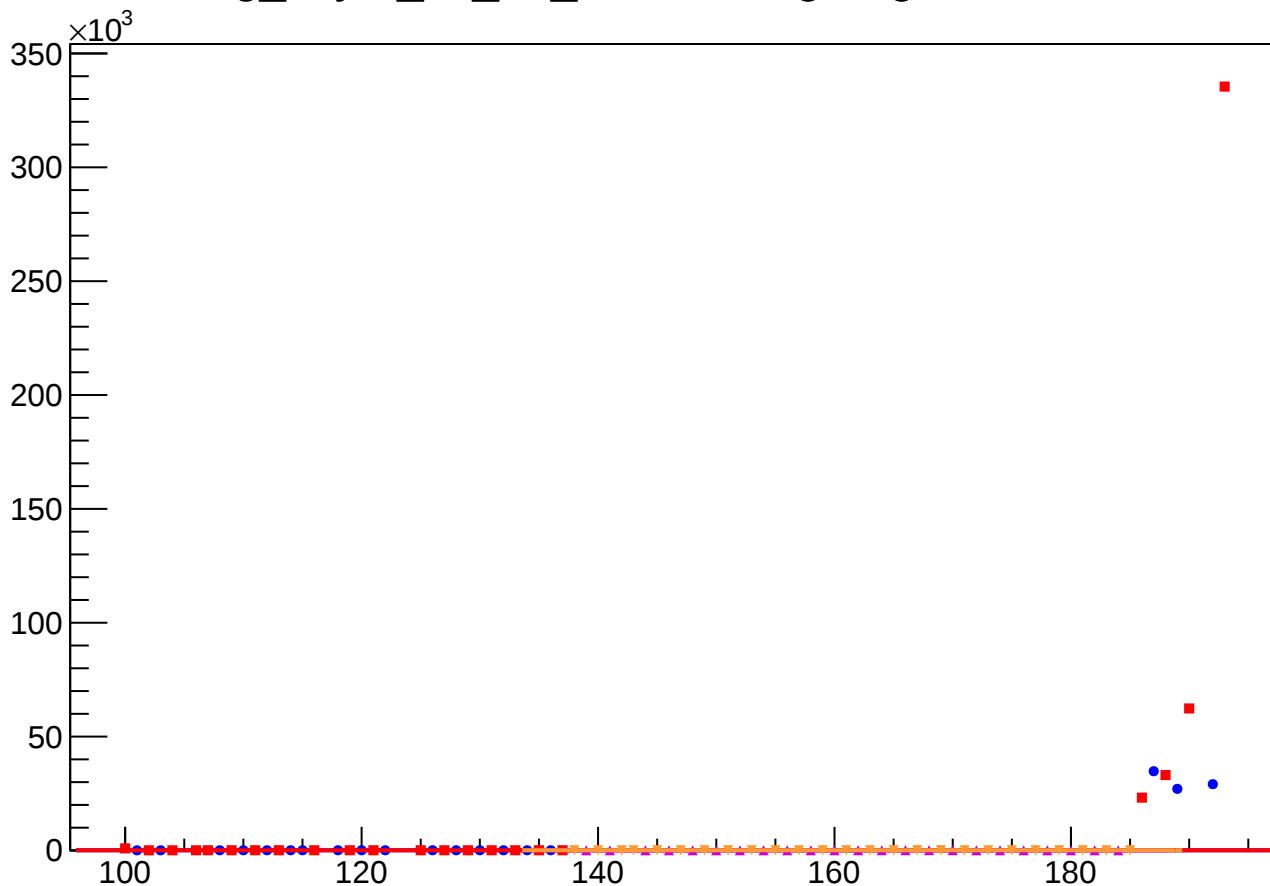
Right: -8.572 ± 21.383 $\chi^2/\text{NDF}: 31.1/39$

In: 31.374 ± 17.528 $\chi^2/\text{NDF}: 48.6/41$

Out: -1.570 ± 17.272 $\chi^2/\text{NDF}: 33.7/45$

All: 14.660 ± 12.303 $\chi^2/\text{NDF}: 84.1/87$

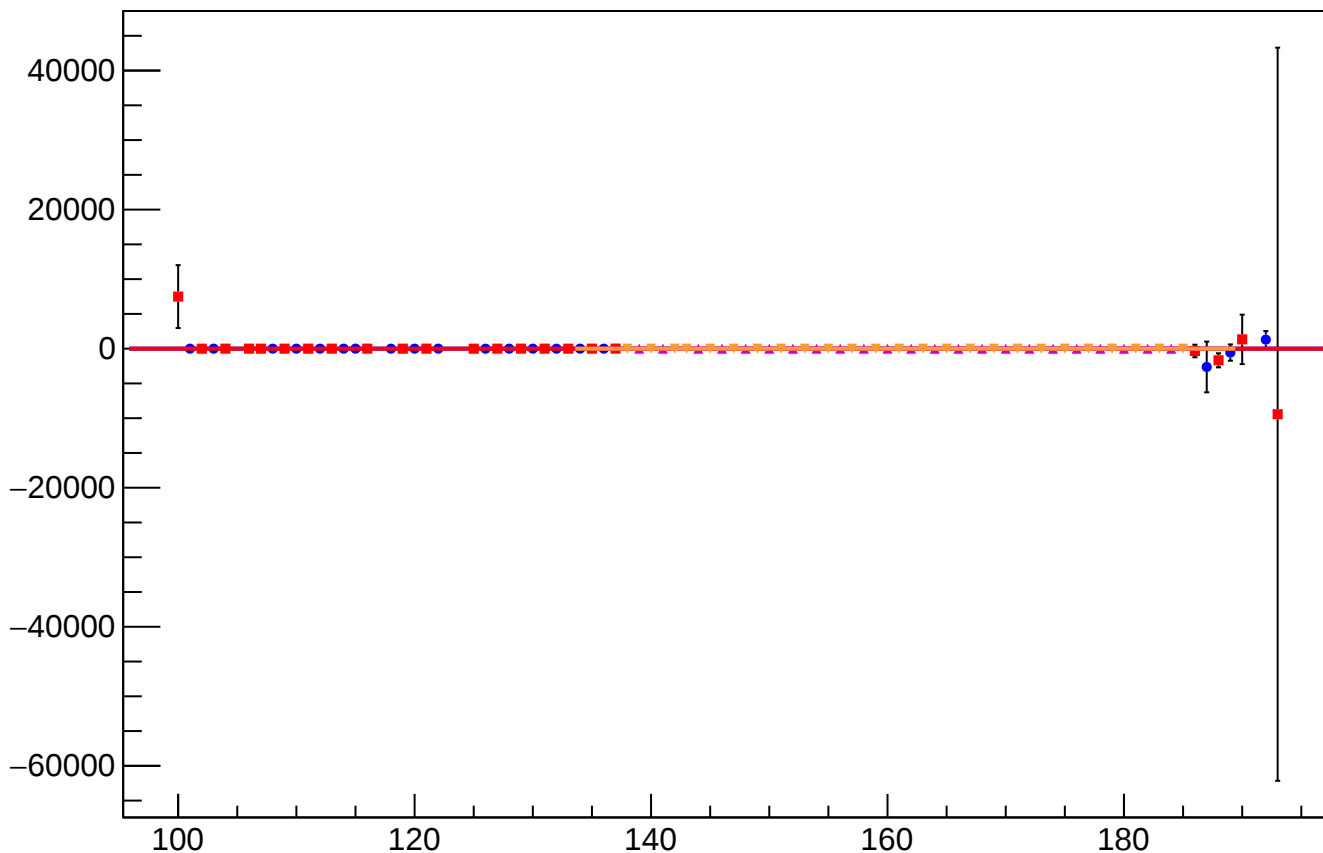
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.023 $\pm$ 0.021 χ^2 /NDF: 1636645.4/18
 Left Out: 89.507 $\pm$ 0.015 χ^2 /NDF: 468988.9/24
 Right Out: 79.349 $\pm$ 0.022 χ^2 /NDF: 2049427.4/21
 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: 77.661 $\pm$ 0.015 χ^2 /NDF: 3698161.3/40
 In: 84.987 $\pm$ 0.012 χ^2 /NDF: 2418461.0/41
 Out: 86.244 $\pm$ 0.012 χ^2 /NDF: 2669277.3/46
 All: 85.625 $\pm$ 0.009 χ^2 /NDF: 5092950.7/88

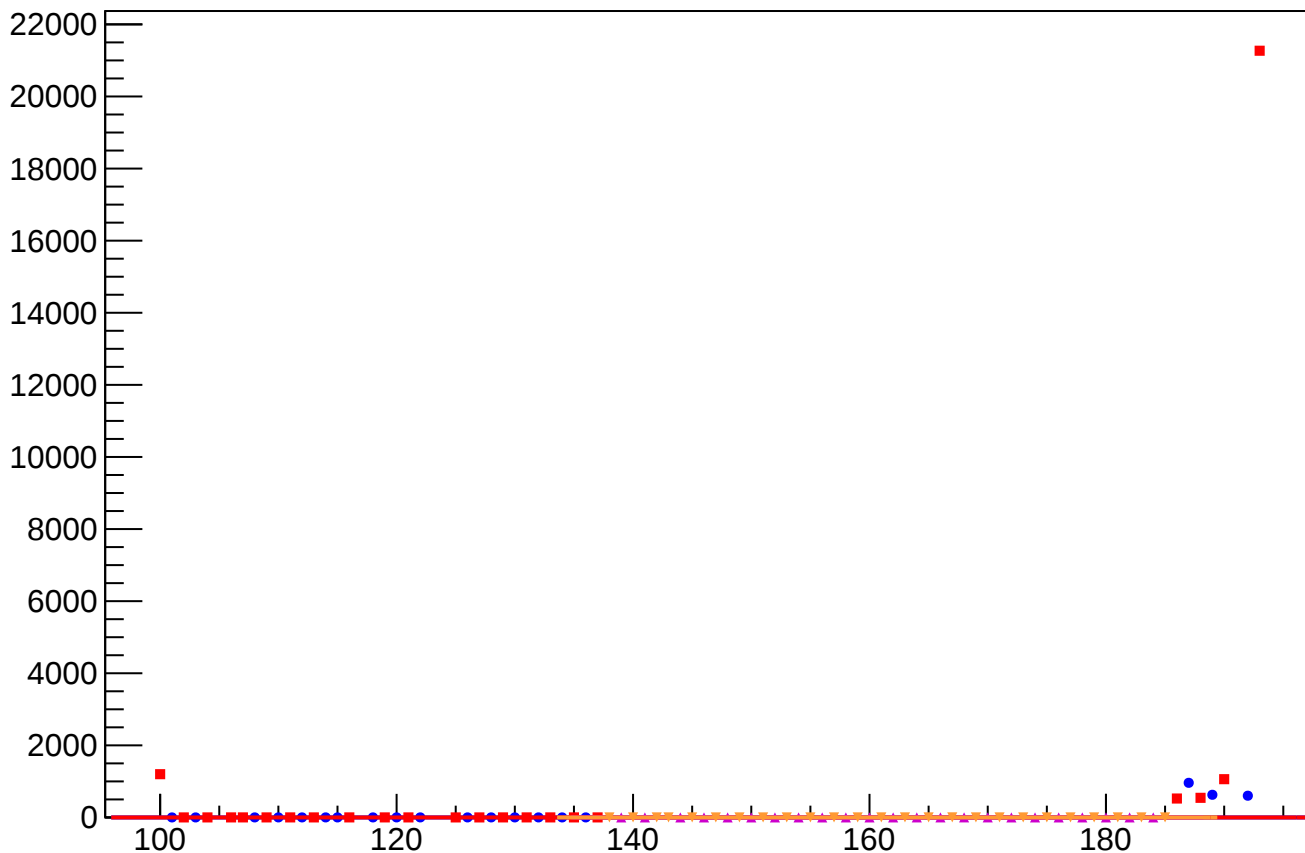
asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 13.8/18$
 Left Out: -0.517 ± 0.382 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: 0.347 ± 0.549 $\chi^2/\text{NDF}: 16.5/21$
 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 $\chi^2/\text{NDF}: 30.8/40$
 In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 36.3/41$
 Out: -0.235 ± 0.314 $\chi^2/\text{NDF}: 38.9/46$
 All: 0.015 ± 0.222 $\chi^2/\text{NDF}: 76.5/88$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.233+/-0.000 χ^2/NDF : 1816268.5/18

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

Right Out: 1.316+/-0.000 χ^2/NDF : 2283836.0/21

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

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

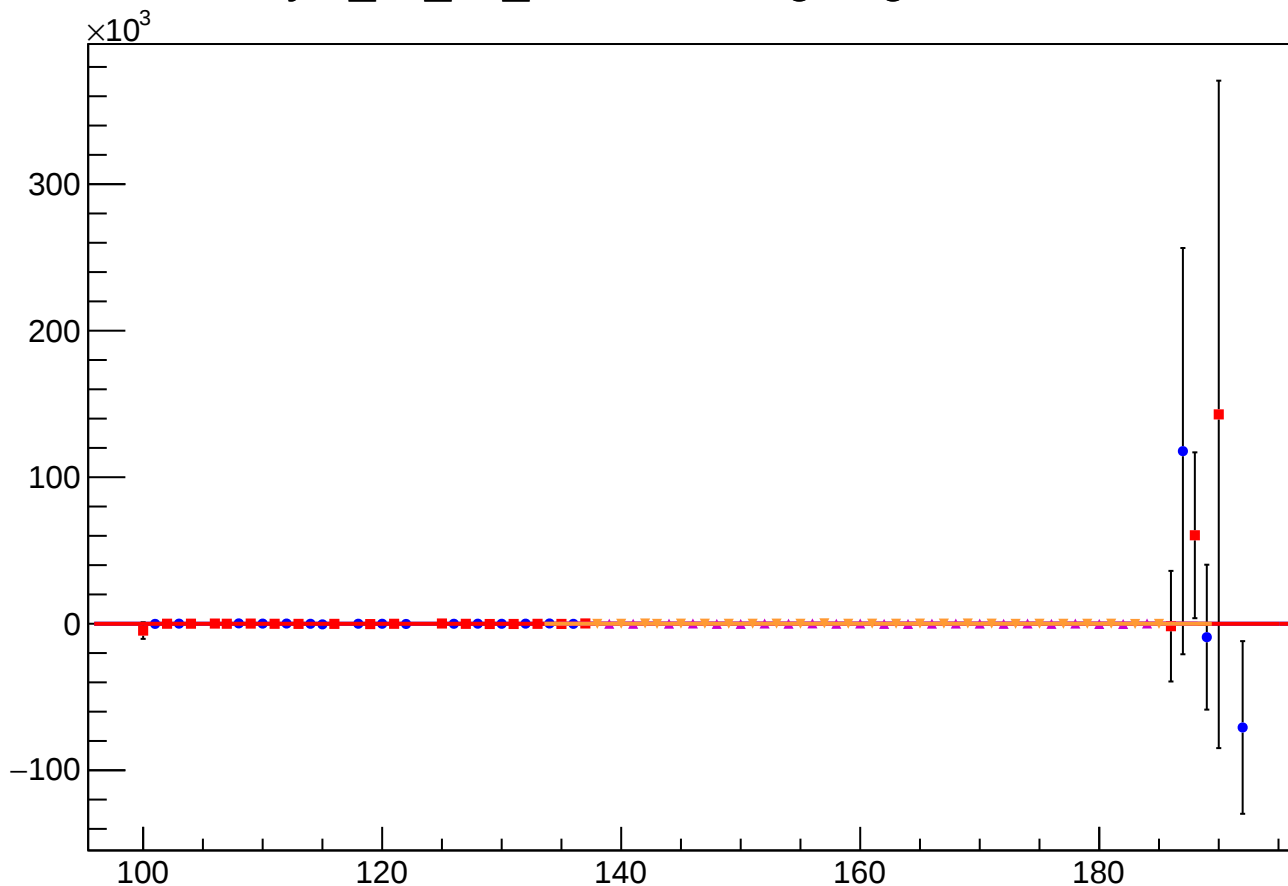
Right: 1.273+/-0.000 χ^2/NDF : 4123343.3/40

In: 1.381+/-0.000 χ^2/NDF :3103417.2/41

Out: 1.421+/-0.000 χ^2/NDF :3549618.9/46

All: 1.401+/-0.000 χ^2/NDF : 6669191.2/88

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.390 ± 30.020 $\chi^2/\text{NDF}: 16.1/18$

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

Right Out: -26.365 ± 30.482 $\chi^2/\text{NDF}: 14.5/20$

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

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

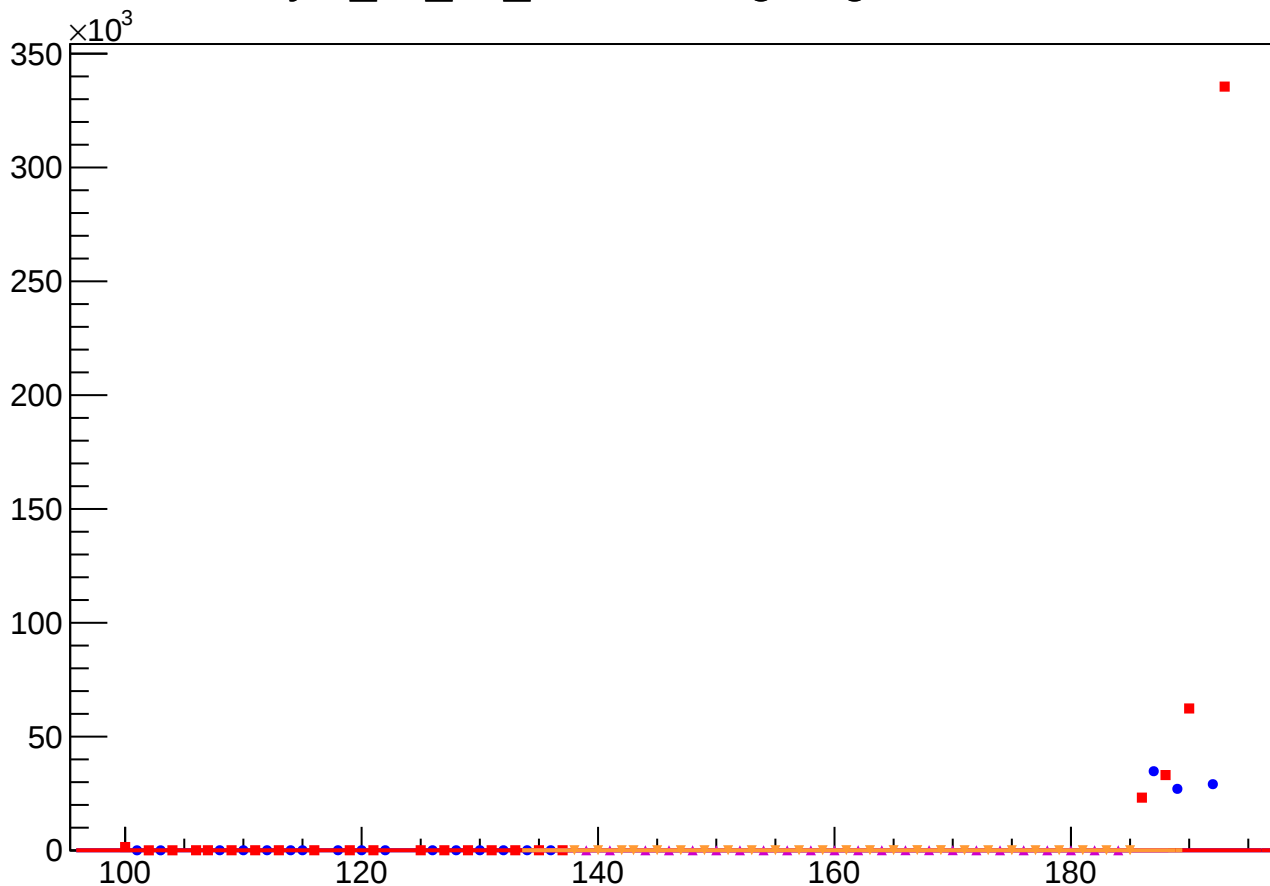
Right: -9.230 ± 21.389 $\chi^2/\text{NDF}: 31.3/39$

In: 31.449 ± 17.533 $\chi^2/\text{NDF}: 48.2/41$

Out: -1.396 ± 17.277 $\chi^2/\text{NDF}: 33.9/45$

All: 14.785 ± 12.306 $\chi^2/\text{NDF}: 83.9/87$

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.044 $\pm$ 0.021 χ^2 /NDF: 1636696.9/18

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

Right Out: 79.345 $\pm$ 0.022 χ^2 /NDF: 2058674.5/21

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

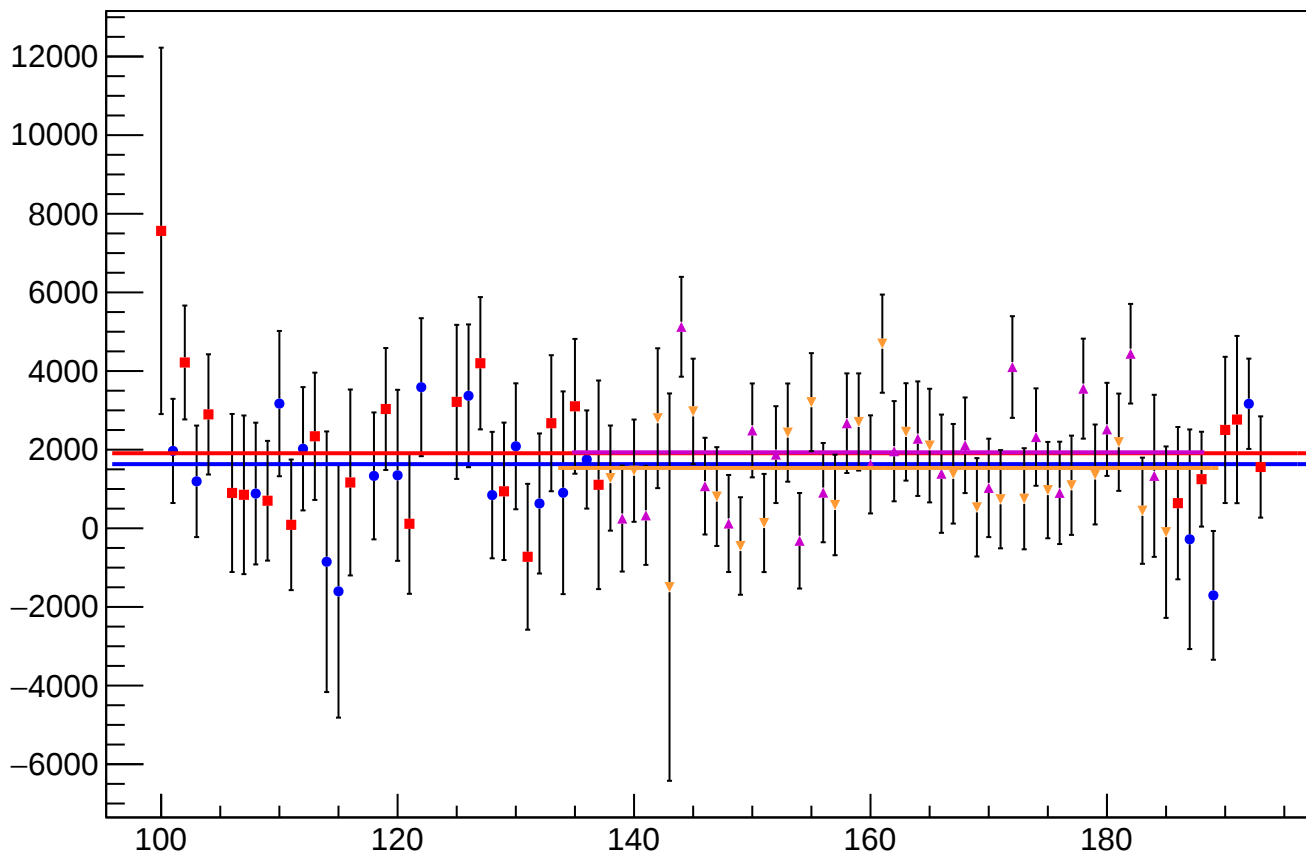
Right: 77.669 $\pm$ 0.015 χ^2 /NDF: 3707280.2/40

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 2419415.1/41

Out: 86.261 $\pm$ 0.012 χ^2 /NDF: 2680098.9/46

All: 85.646 $\pm$ 0.009 χ^2 /NDF: 5104665.1/88

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1632.220+/-388.407 χ^2/NDF : 12.0/18

Left Out: 1535.246+/-265.882 χ^2/NDF : 20.4/24

Right Out: 1909.171+/-361.687 χ^2/NDF : 15.0/22

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

Left: 1732.540+/-188.753 χ^2/NDF : 48.5/47

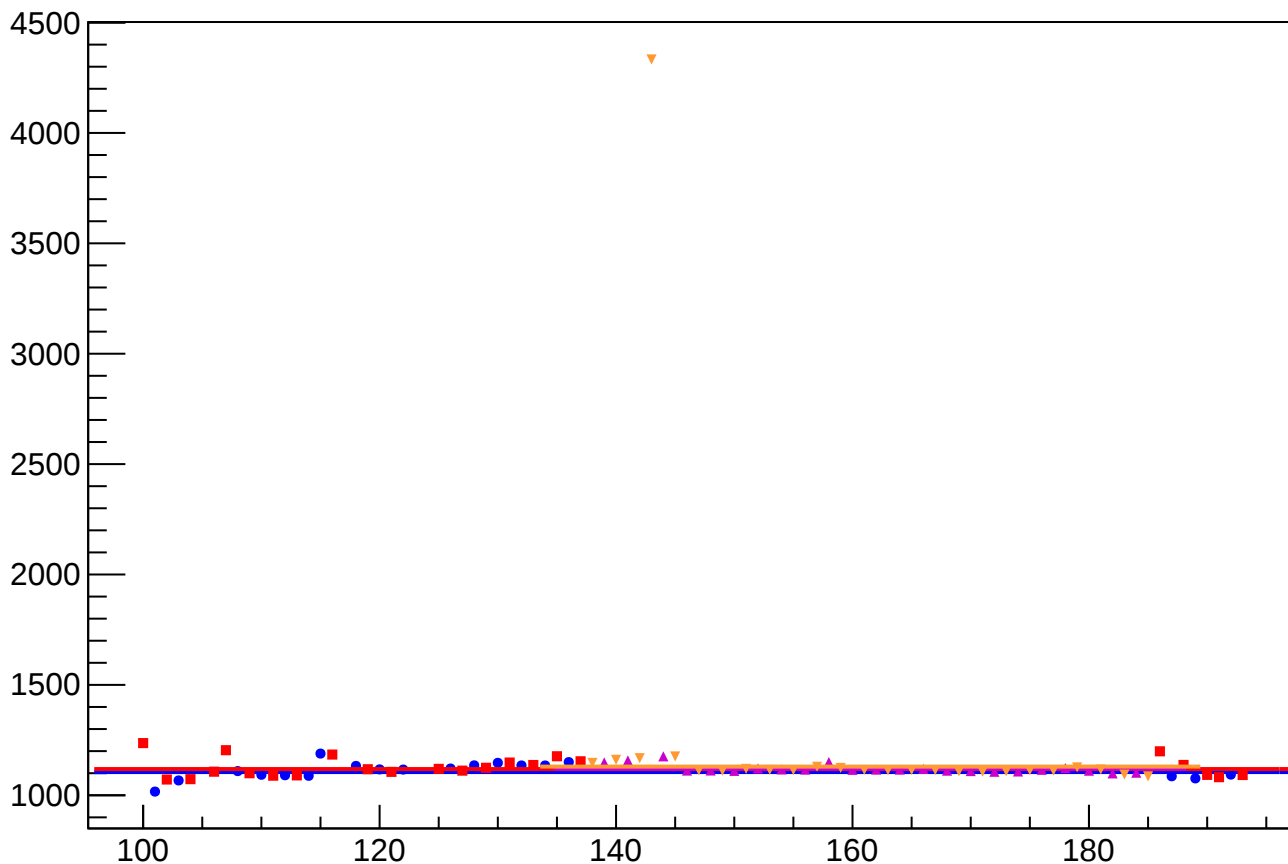
Right: 1780.549+/-264.694 χ^2/NDF : 27.2/41

In: 1835.984+/-220.589 χ^2/NDF : 39.4/41

Out: 1666.425+/-214.226 χ^2/NDF : 36.0/47

All: 1748.723+/-153.681 χ^2/NDF : 75.7/89

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.141+/-0.275 χ^2/NDF : 19322.3/18

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

Right Out: 1118.752+/-0.256 χ^2/NDF : 21319.2/22

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

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

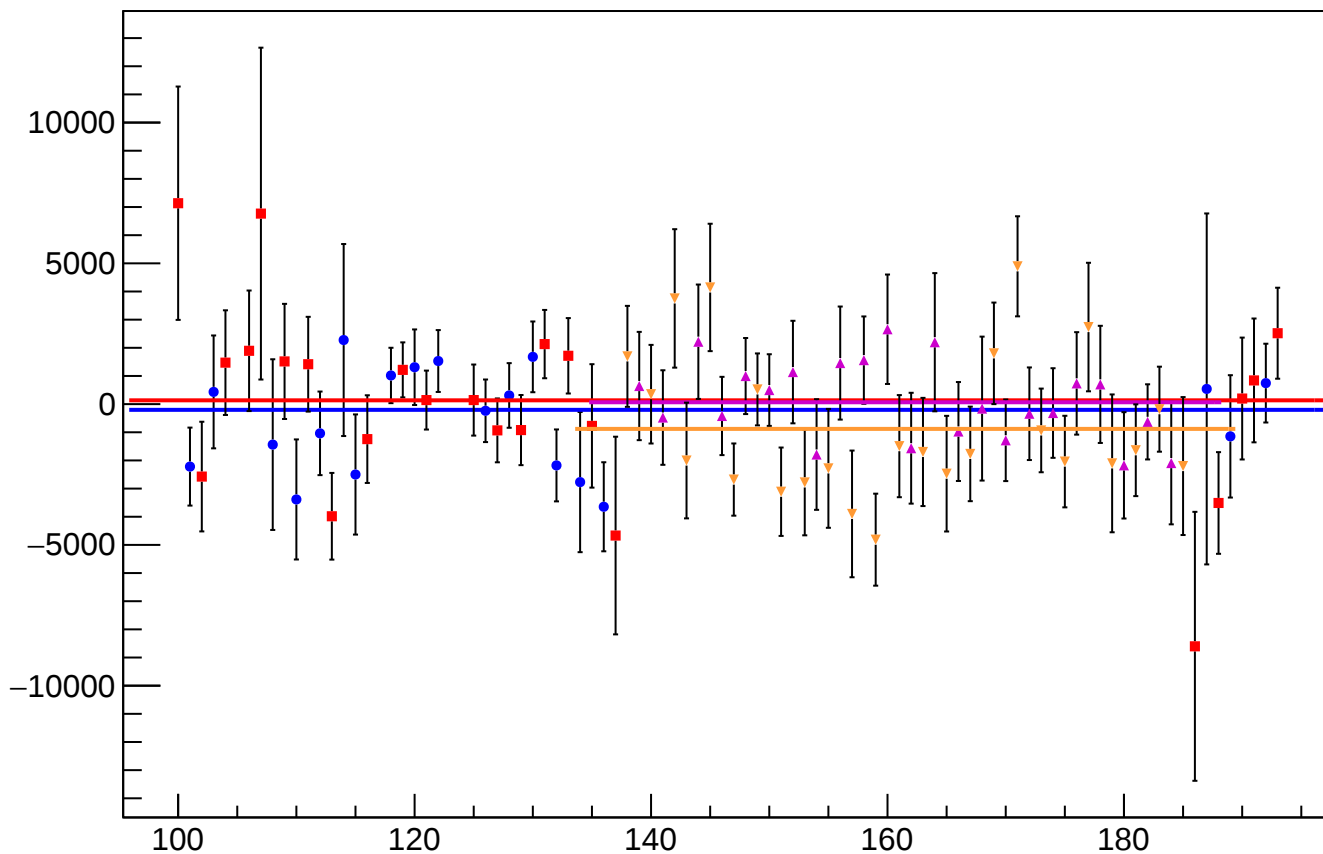
Right: 1112.430+/-0.187 χ^2/NDF : 41956.8/41

In: 1115.879+/-0.156 χ^2/NDF : 31220.4/41

Out: 1125.990+/-0.151 χ^2/NDF : 880812.9/47

All: 1121.082+/-0.109 χ^2/NDF : 914195.8/89

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -203.185+/-345.009 χ^2/NDF : 23.2/18

Left Out: -879.685+/-355.692 χ^2/NDF :43.5/24

Right Out: 134.965+/-333.783 χ^2/NDF : 34.9/22

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

Left: -411.067+/-252.599 χ^2/NDF : 59.2/47

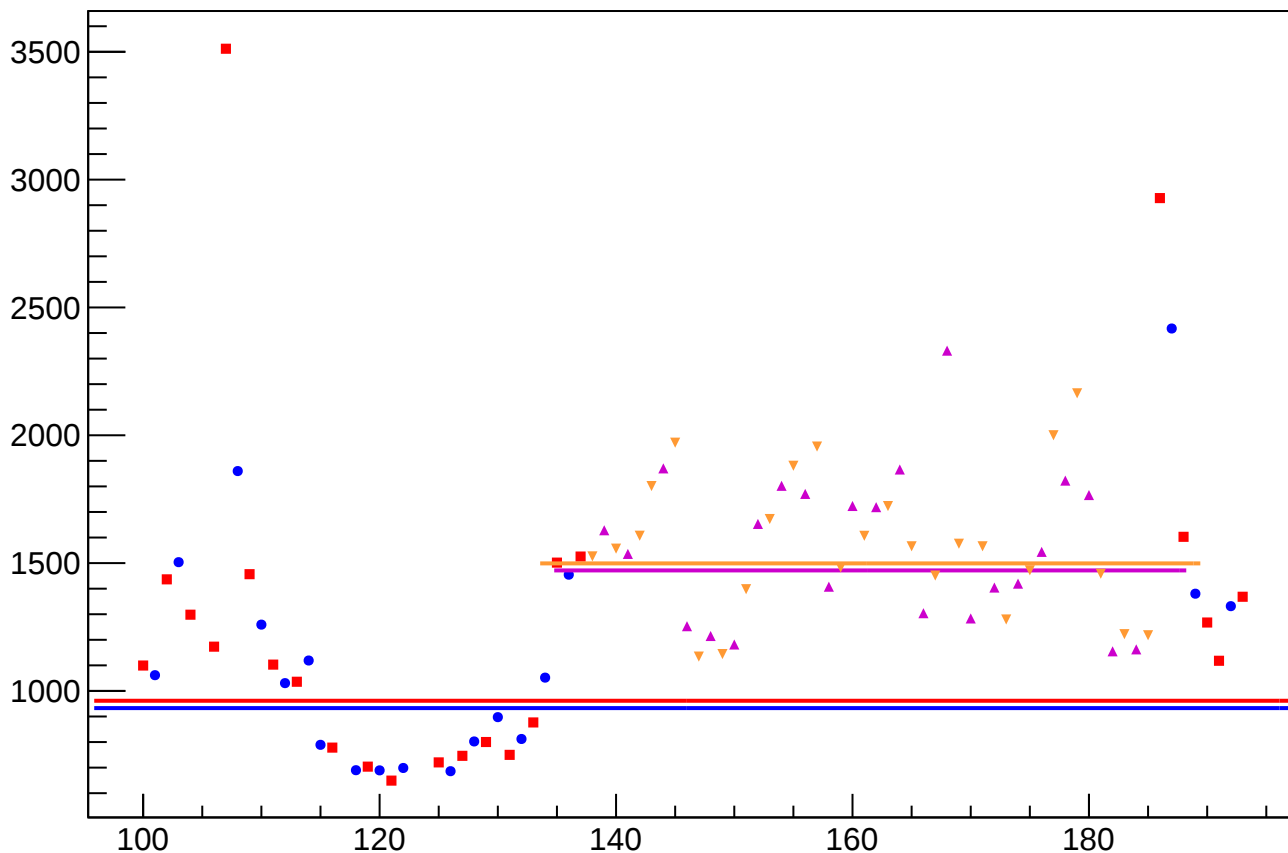
Right: -28.519+/-239.891 χ^2/NDF : 58.6/41

In: -73.986+/-248.686 χ^2/NDF :35.6/41

Out: -340.151+/-243.397 χ^2/NDF :82.8/47

All: -209.929+/-173.948 χ^2/NDF : 119.0/89

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 932.814 $\pm$ 0.244 χ^2 /NDF: 1443141.6/18

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

Right Out: 961.551 $\pm$ 0.236 χ^2 /NDF: 2250872.1/22

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

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

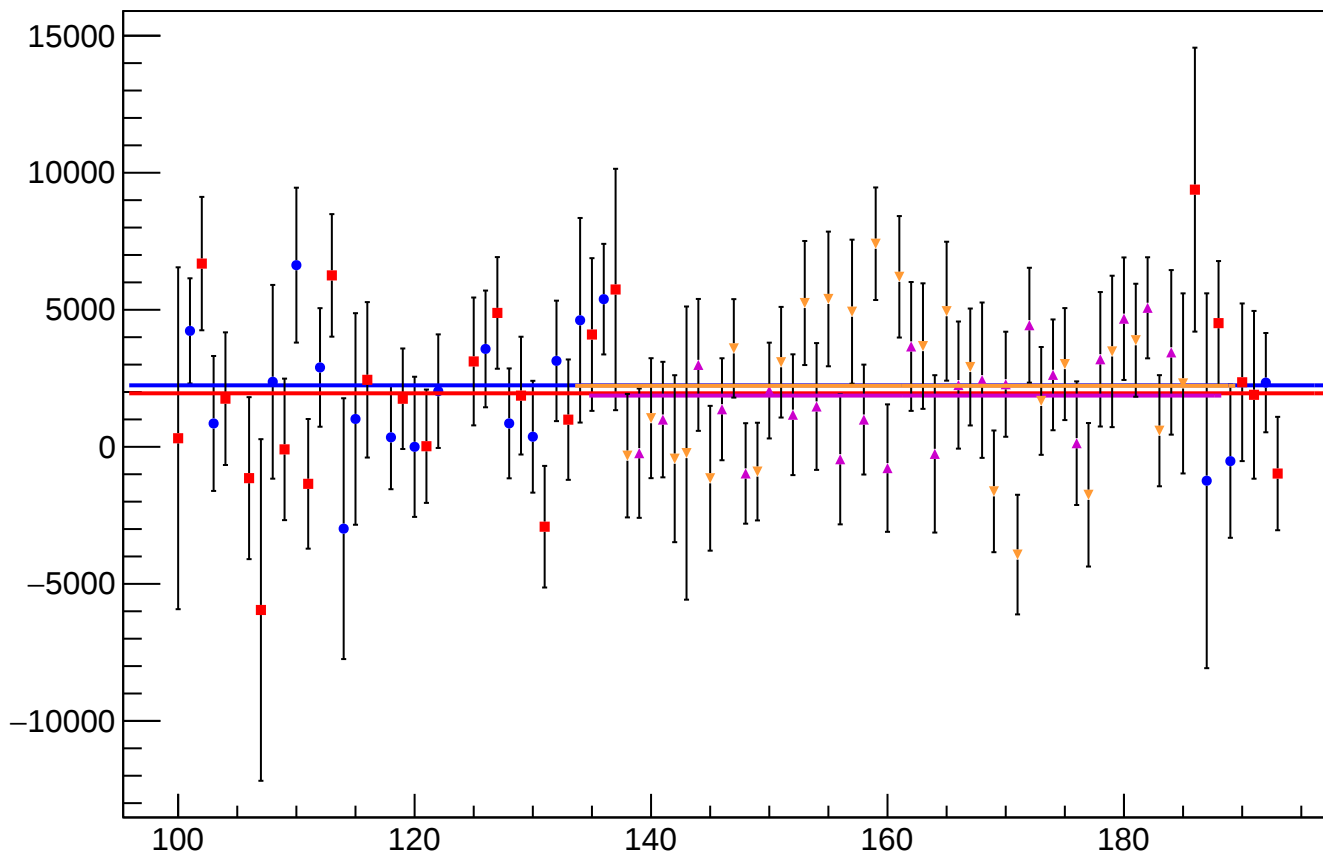
Right: 947.657 $\pm$ 0.170 χ^2 /NDF: 3701180.9/41

In: 1191.565 $\pm$ 0.176 χ^2 /NDF:4889996.3/41

Out: 1213.144 $\pm$ 0.172 χ^2 /NDF:5731471.5/47

All: 1202.586 $\pm$ 0.123 χ^2 /NDF: 10629158.6/8

asym_usl_mean vs Slug, Sign Corrected



Right In: 2243.940 ± 548.827 $\chi^2/\text{NDF}: 12.9/18$

Left Out: 2226.533 ± 454.821 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 1952.862 ± 525.881 $\chi^2/\text{NDF}: 27.8/22$

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

Left: 2048.415 ± 321.834 $\chi^2/\text{NDF}: 54.0/47$

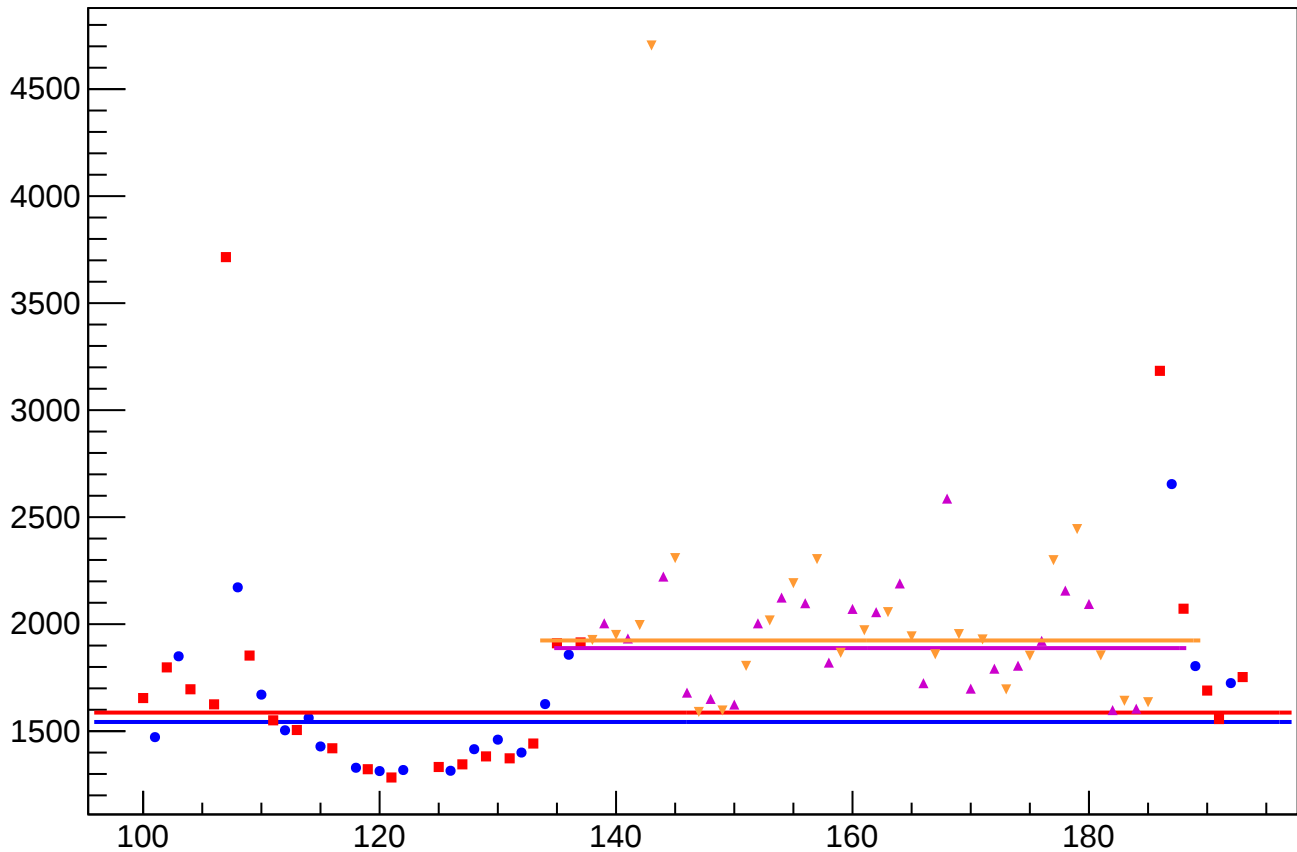
Right: 2092.189 ± 379.707 $\chi^2/\text{NDF}: 40.9/41$

In: 2022.382 ± 350.491 $\chi^2/\text{NDF}: 28.1/41$

Out: 2109.424 ± 344.008 $\chi^2/\text{NDF}: 66.7/47$

All: 2066.715 ± 245.510 $\chi^2/\text{NDF}: 94.8/89$

asym_usl_rms vs Slug, Sign Corrected



Right In: 1542.939+/-0.388 χ^2/NDF : 351379.0/18

Left Out: 1923.833+/-0.322 χ^2/NDF : 1006152.2/24

Right Out: 1586.838+/-0.372 χ^2/NDF : 801904.0/22

Left In: 1888.121+/-0.322 χ^2/NDF : 504568.6/22

Left: 1906.002+/-0.228 χ^2/NDF : 1516877.3/47

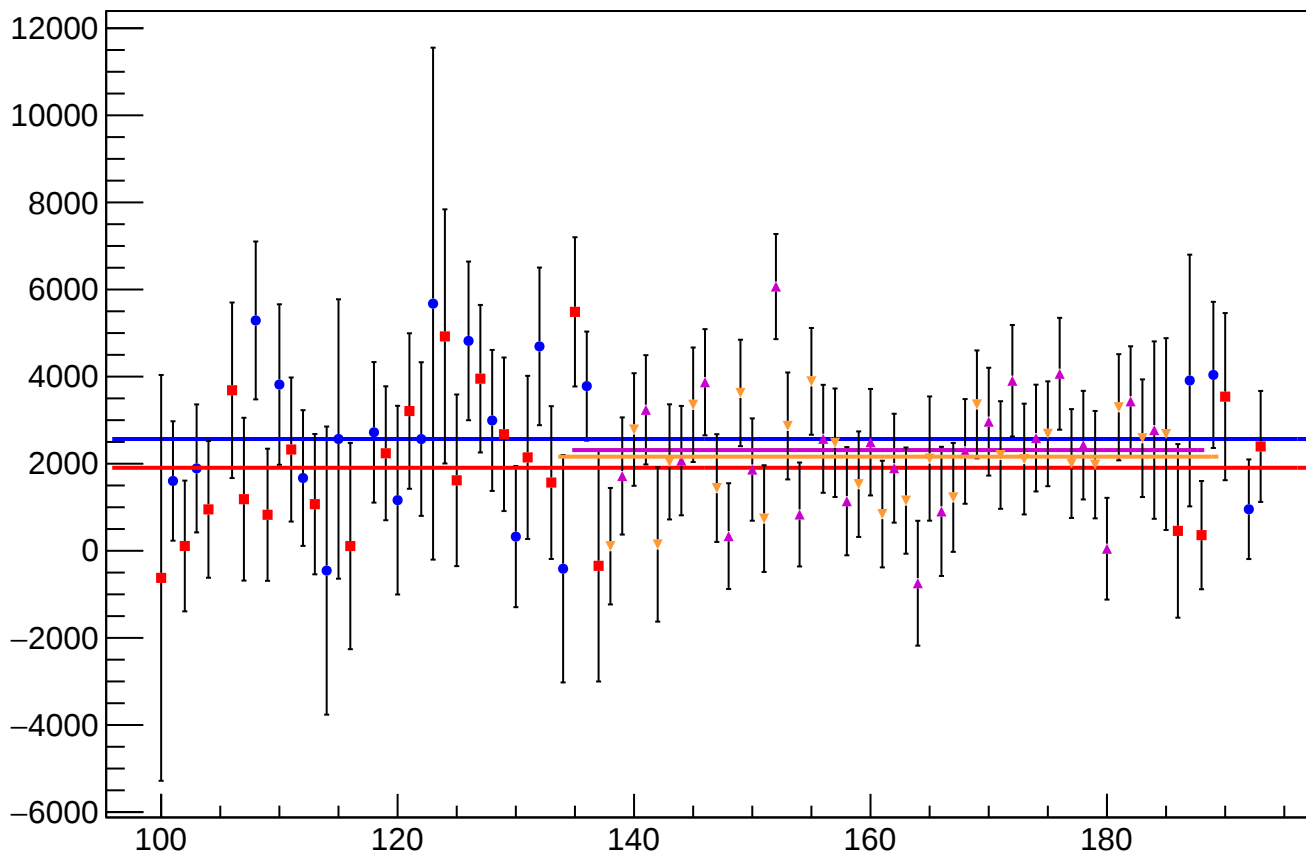
Right: 1565.825+/-0.268 χ^2/NDF : 1159953.8/41

In: 1747.344+/-0.248 χ^2/NDF : 1324436.4/41

Out: 1779.626+/-0.243 χ^2/NDF : 2277906.2/47

All: 1763.787+/-0.174 χ^2/NDF : 3610984.2/89

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2567.458 $\pm$ 391.195 χ^2/NDF : 15.4/19

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

Right Out: 1906.635 $\pm$ 366.338 χ^2/NDF : 15.8/22

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

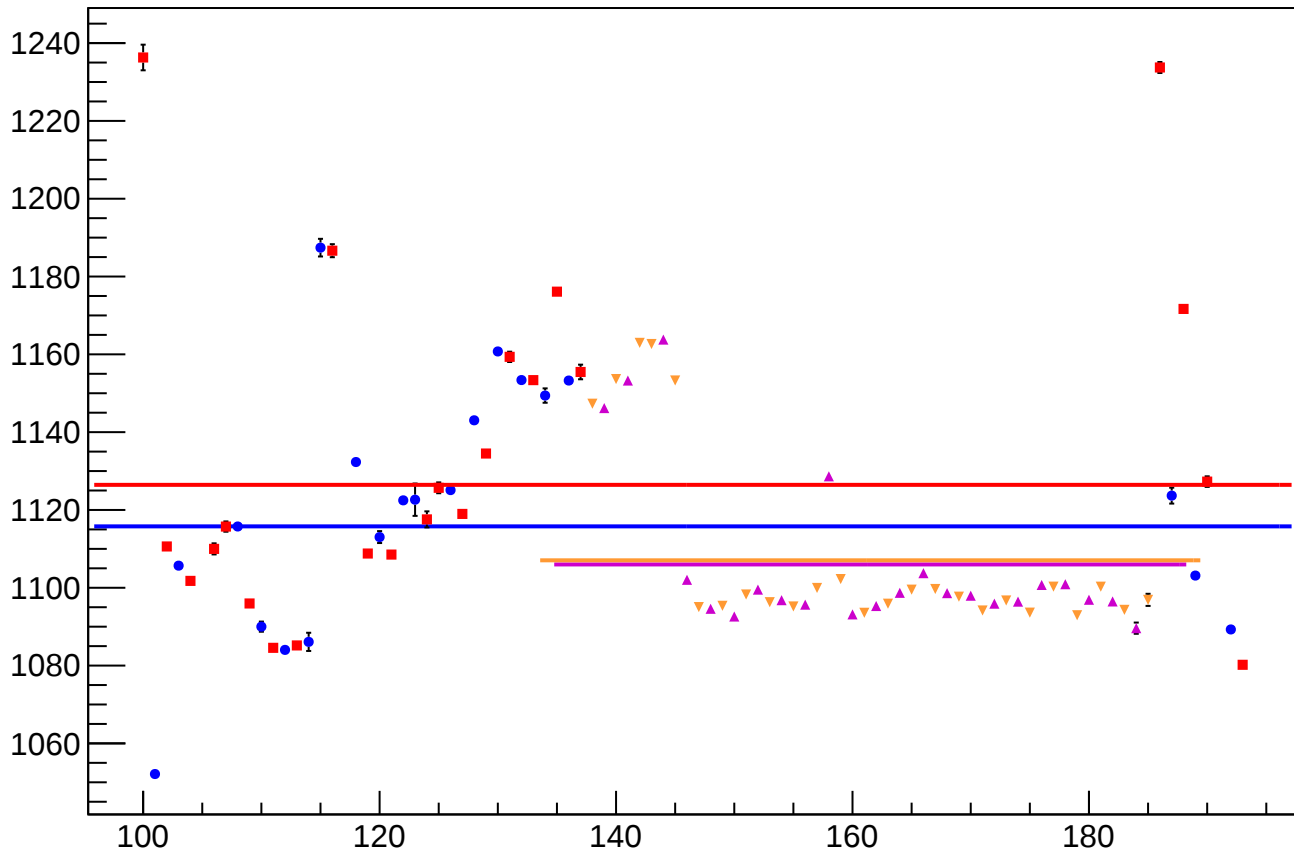
Right: 2215.386 $\pm$ 267.396 χ^2/NDF : 32.8/42

In: 2393.149 $\pm$ 219.075 χ^2/NDF : 47.0/42

Out: 2077.162 $\pm$ 210.674 χ^2/NDF : 31.3/47

All: 2228.981 $\pm$ 151.852 χ^2/NDF : 79.3/90

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1115.783 $\pm$ 0.277 χ^2 /NDF: 13378.5/19

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

Right Out: 1126.455 $\pm$ 0.259 χ^2 /NDF: 21368.4/22

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

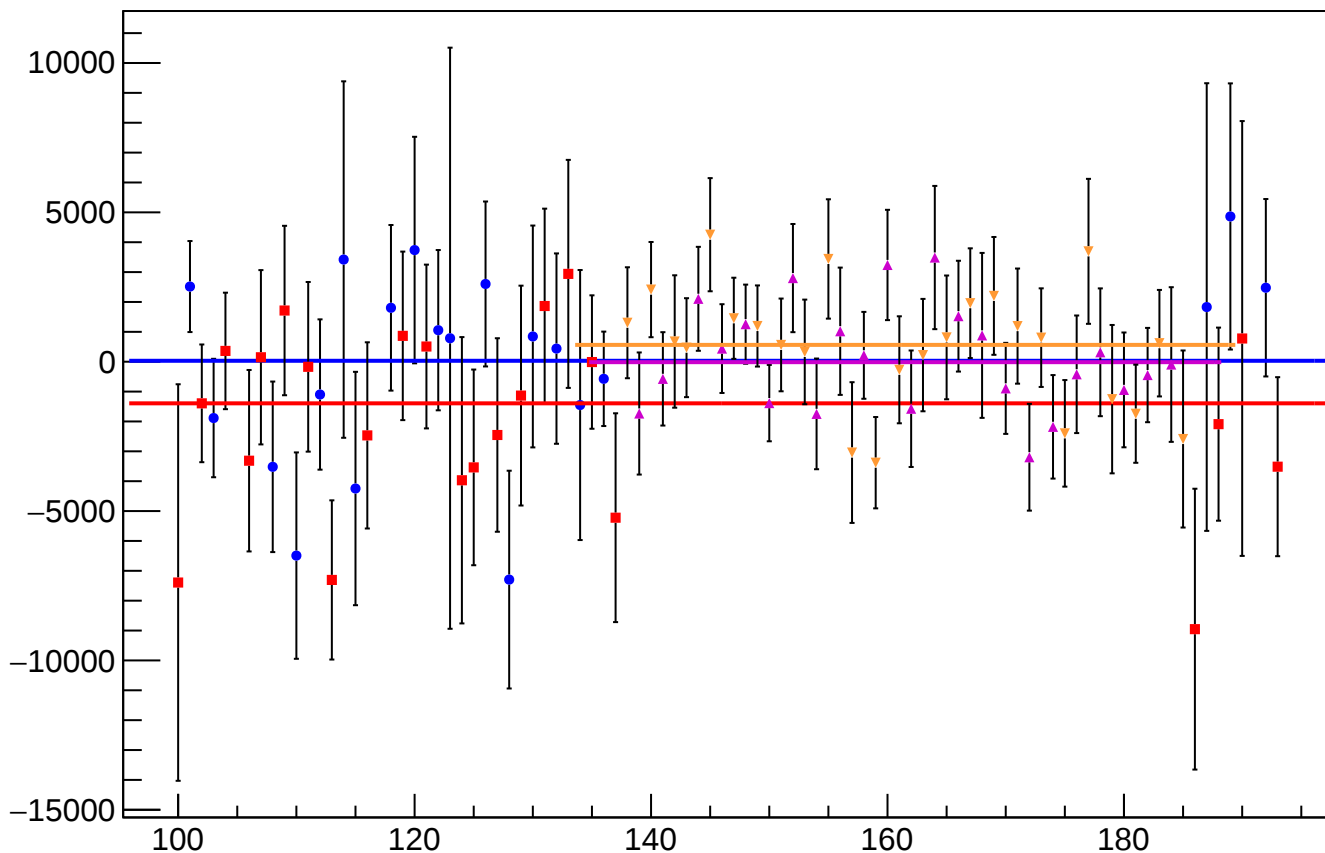
Right: 1121.468 $\pm$ 0.189 χ^2 /NDF: 35539.9/42

In: 1109.066 $\pm$ 0.155 χ^2 /NDF:25789.0/42

Out: 1113.472 $\pm$ 0.149 χ^2 /NDF:40297.0/47

All: 1111.355 $\pm$ 0.107 χ^2 /NDF: 66506.3/90

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 30.964 $\pm$ 632.347 χ^2/NDF : 19.1/19

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

Right Out: -1393.419 $\pm$ 627.175 χ^2/NDF : 17.8/22

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

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

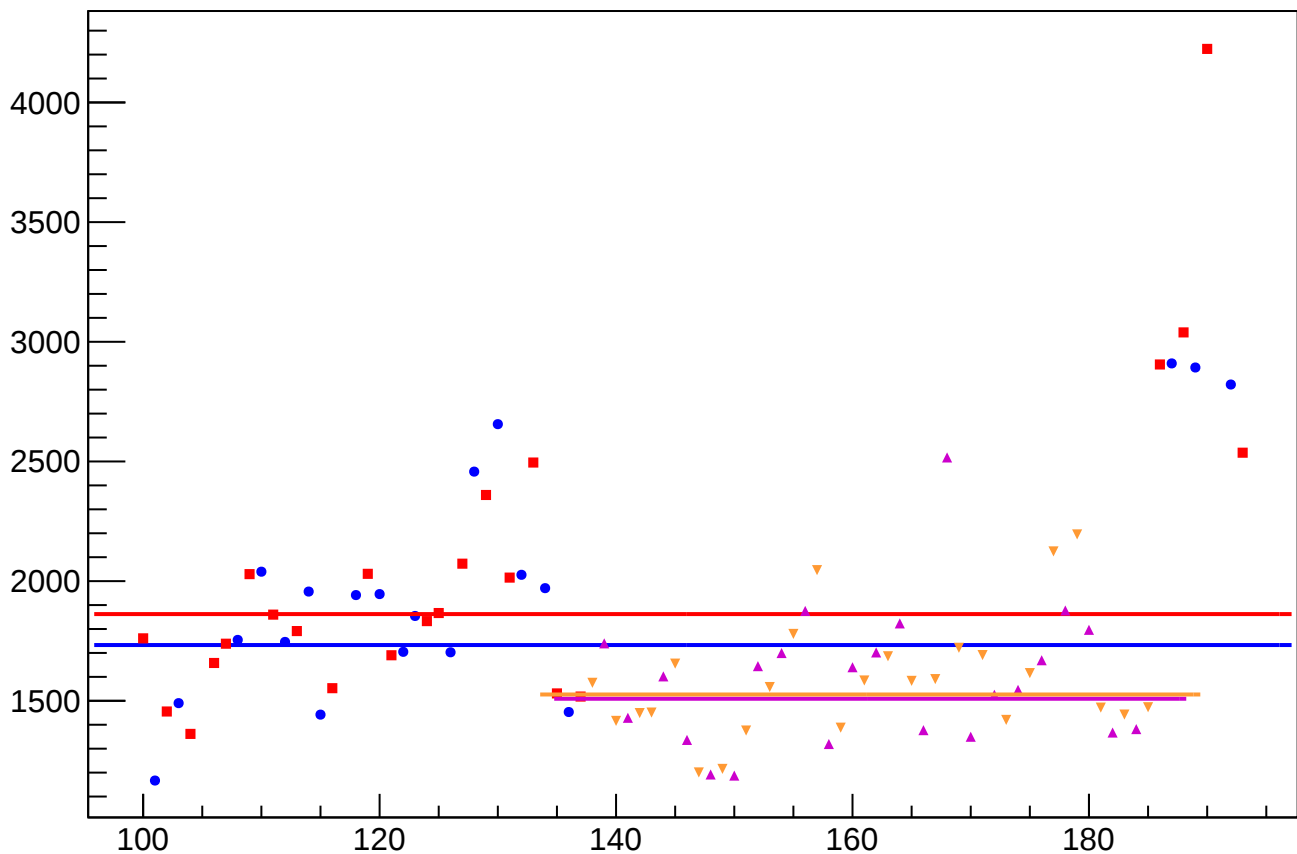
Right: -687.076 $\pm$ 445.297 χ^2/NDF : 39.4/42

In: -3.815 $\pm$ 317.320 χ^2/NDF : 39.2/42

Out: 76.535 $\pm$ 312.808 χ^2/NDF : 51.9/47

All: 36.936 $\pm$ 222.767 χ^2/NDF : 91.1/90

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1733.013+/-0.447 χ^2/NDF : 1095620.3/19

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

Right Out: 1862.335+/-0.443 χ^2/NDF : 1116800.5/22

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

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

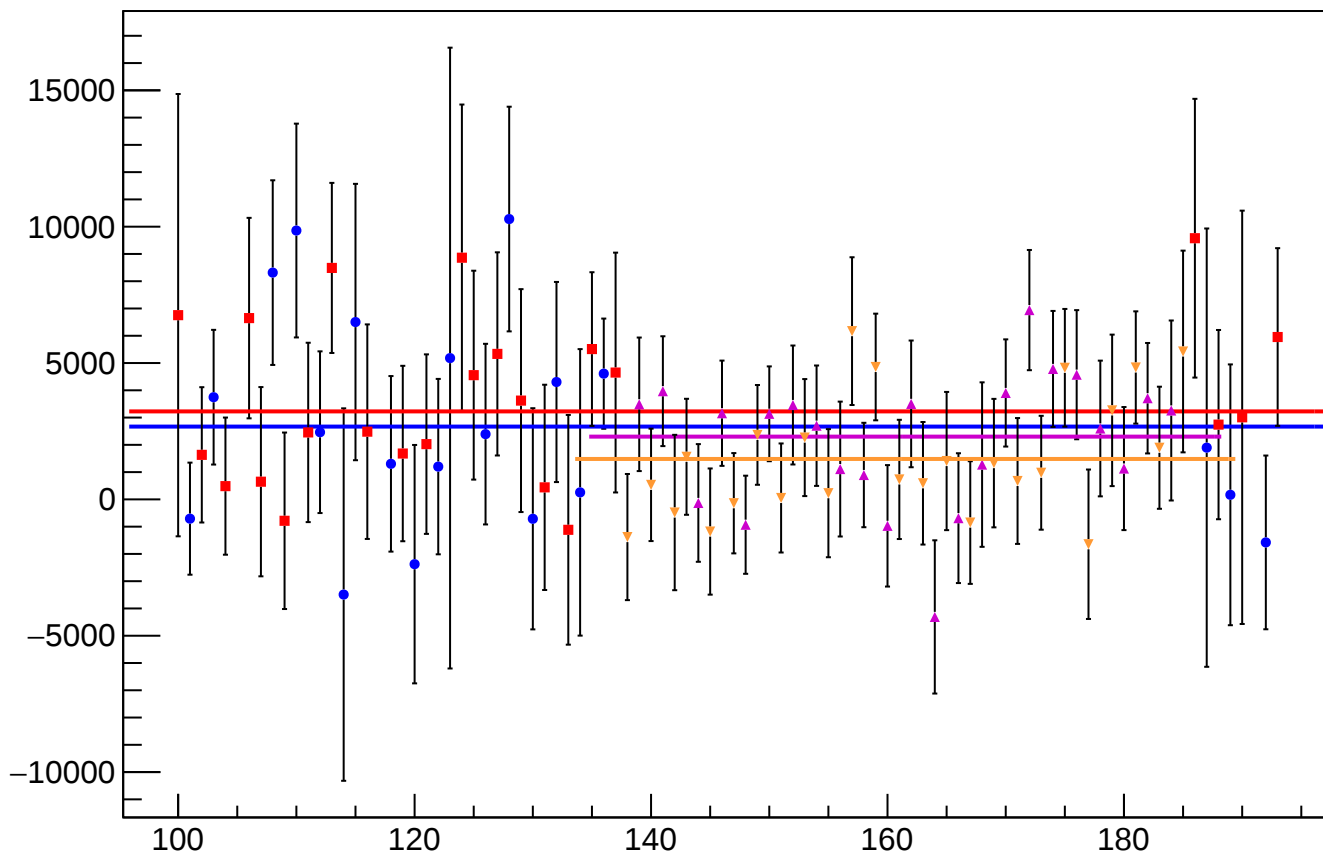
Right: 1798.205+/-0.315 χ^2/NDF : 2254589.4/42

In: 1565.097+/-0.224 χ^2/NDF : 2215797.9/42

Out: 1609.960+/-0.221 χ^2/NDF : 2301601.9/47

All: 1587.850+/-0.158 χ^2/NDF : 4537675.2/90

asym_usr_mean vs Slug, Sign Corrected



Right In: 2669.457 $\pm$ 765.905 χ^2 /NDF: 19.7/19

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

Right Out: 3226.352 $\pm$ 743.991 χ^2 /NDF: 14.1/22

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

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

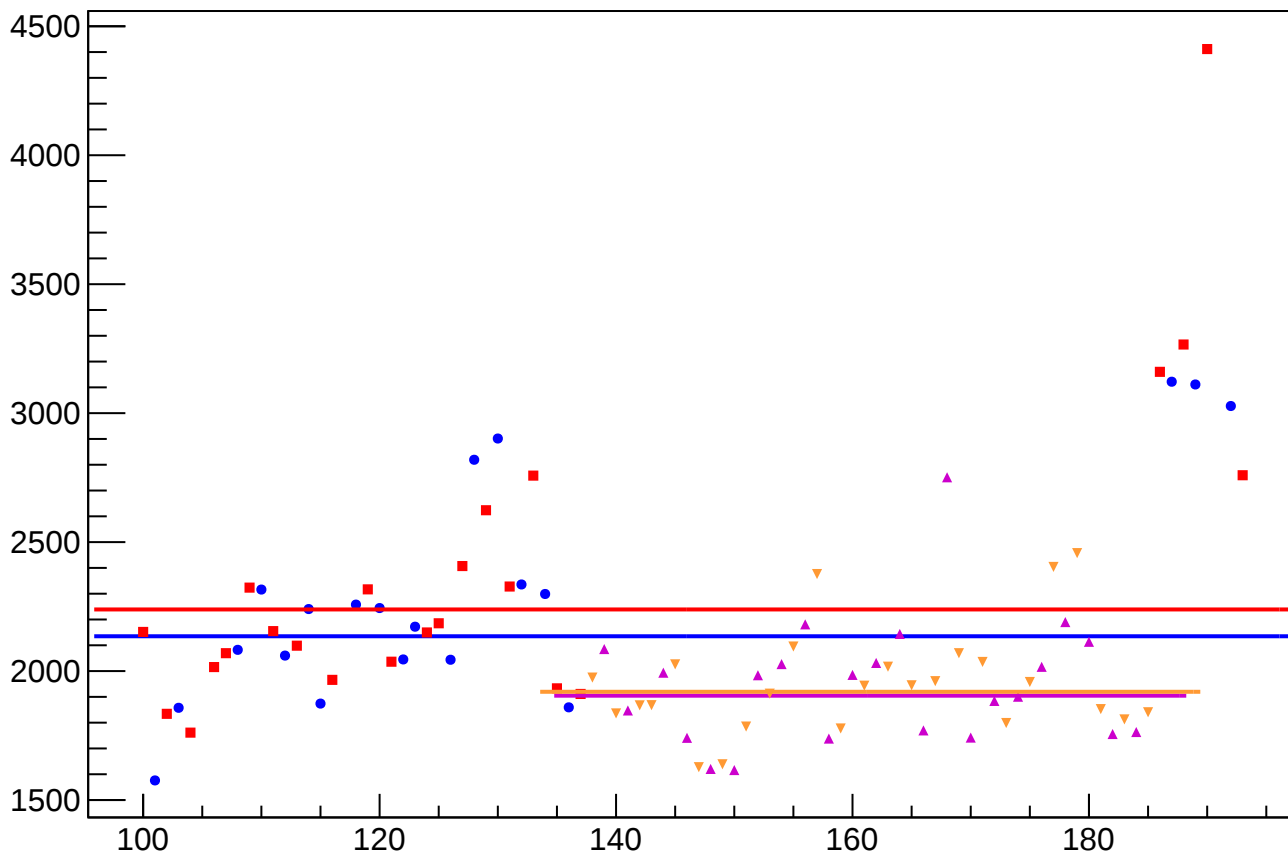
Right: 2955.986 $\pm$ 533.660 χ^2 /NDF: 34.1/42

In: 2398.558 $\pm$ 393.738 χ^2 /NDF:44.7/42

Out: 1949.465 $\pm$ 385.035 χ^2 /NDF:39.1/47

All: 2168.994 $\pm$ 275.286 χ^2 /NDF: 84.5/90

asym_usr_rms vs Slug, Sign Corrected



Right In: 2134.982 $\pm$ 0.542 χ^2/NDF : 634698.0/19

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

Right Out: 2238.922 $\pm$ 0.526 χ^2/NDF : 707320.1/22

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

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

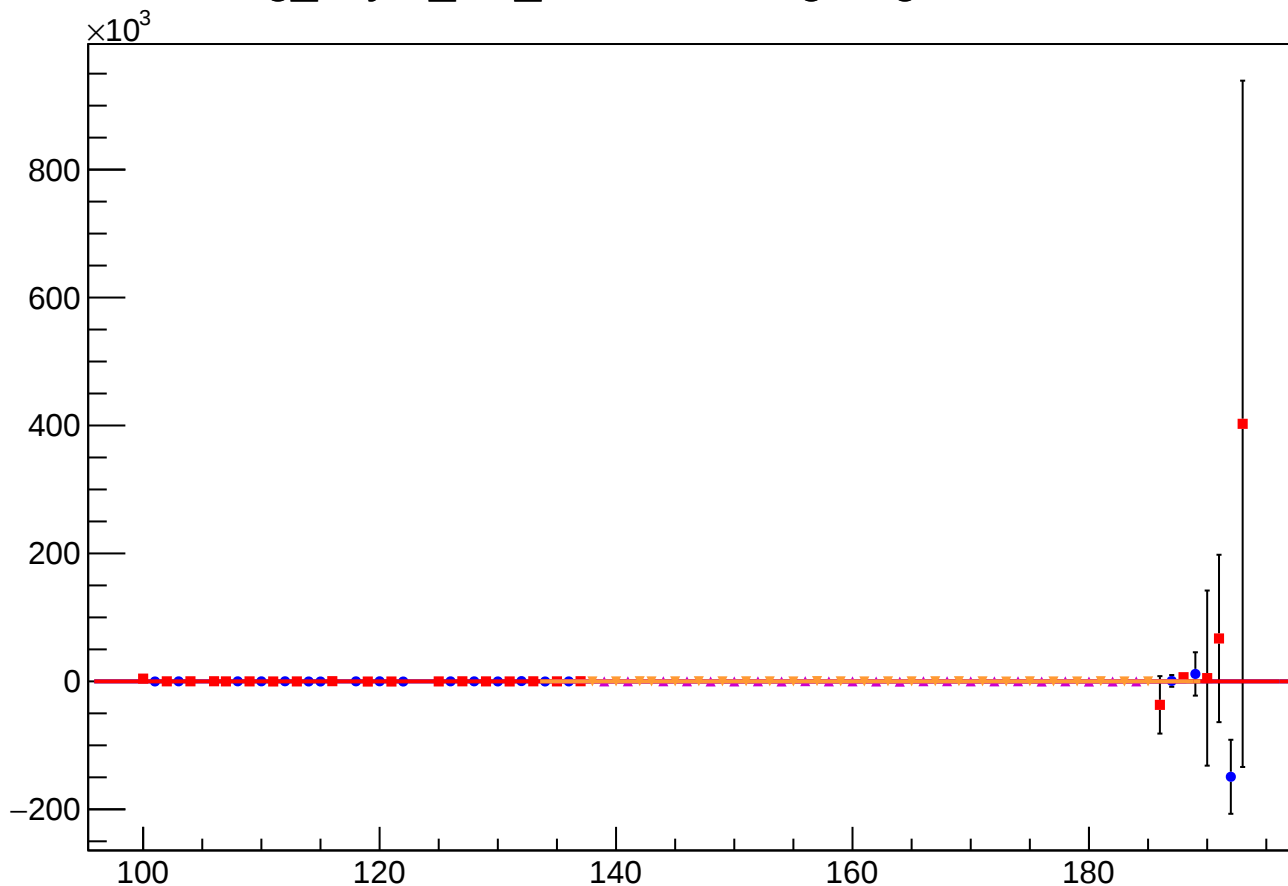
Right: 2188.460 $\pm$ 0.377 χ^2/NDF : 1360969.3/42

In: 1965.506 $\pm$ 0.278 χ^2/NDF : 1215150.0/42

Out: 2005.222 $\pm$ 0.272 χ^2/NDF : 1343065.7/47

All: 1985.808 $\pm$ 0.195 χ^2/NDF : 2568617.4/90

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.805 ± 36.771 $\chi^2/\text{NDF}: 23.3/18$

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

Right Out: 1.743 ± 36.755 $\chi^2/\text{NDF}: 16.7/22$

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

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

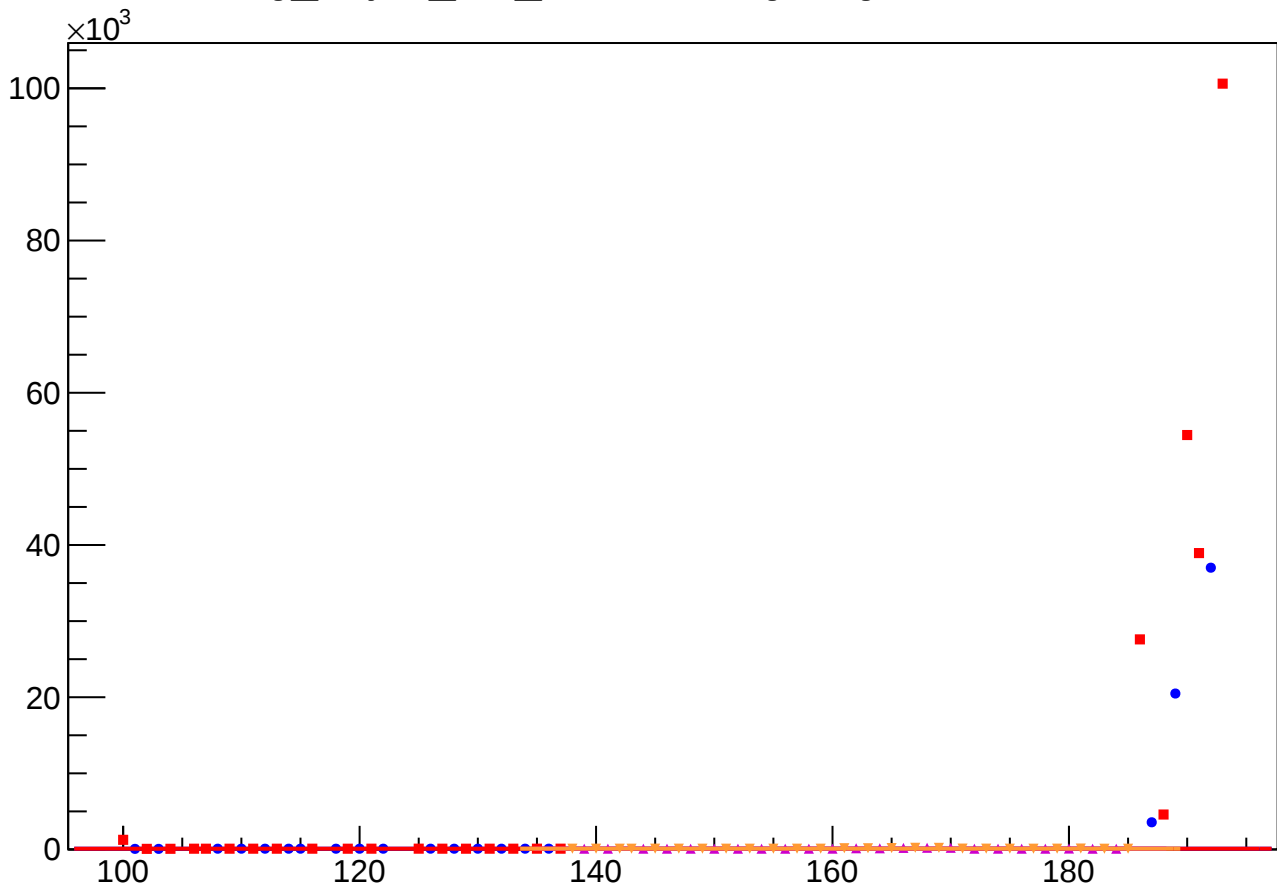
Right: 0.469 ± 25.995 $\chi^2/\text{NDF}: 40.0/41$

In: 16.106 ± 21.415 $\chi^2/\text{NDF}: 60.0/41$

Out: 5.695 ± 20.992 $\chi^2/\text{NDF}: 53.2/47$

All: 10.797 ± 14.991 $\chi^2/\text{NDF}: 113.4/89$

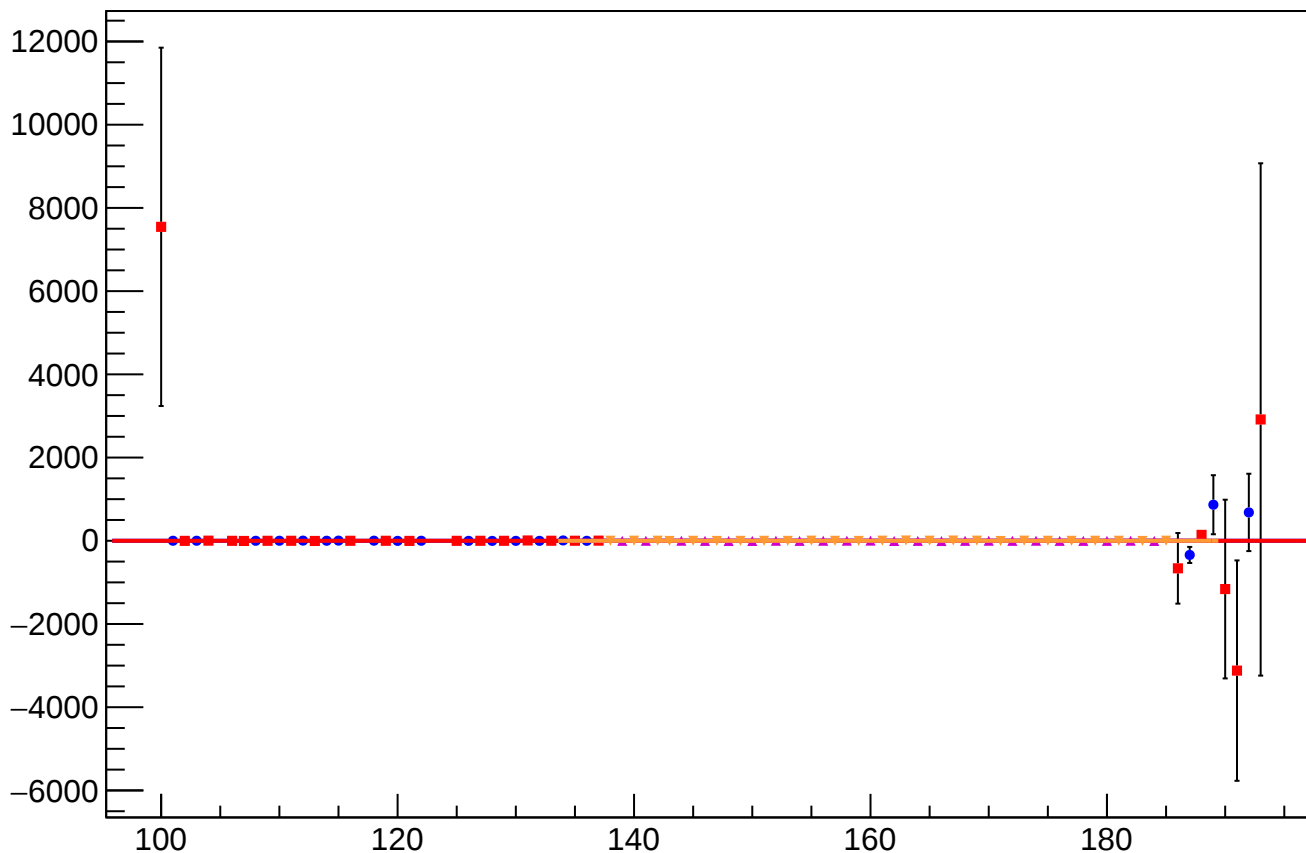
reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.142 $\pm$ 0.026 χ^2 /NDF: 1989805.7/18
 Left Out: 107.590 $\pm$ 0.018 χ^2 /NDF:1447372.1/24
 Right Out: 96.592 $\pm$ 0.026 χ^2 /NDF: 2983576.5/22
 Left In: 107.672 $\pm$ 0.019 χ^2 /NDF:1491034.7/22

Left: 107.630 $\pm$ 0.013 χ^2 /NDF: 2938417.0/47
 Right: 95.367 $\pm$ 0.018 χ^2 /NDF: 4977822.0/41
 In: 103.083 $\pm$ 0.015 χ^2 /NDF:3659789.9/41
 Out: 104.002 $\pm$ 0.015 χ^2 /NDF:4551611.8/47
 All: 103.552 $\pm$ 0.011 χ^2 /NDF: 8213280.0/89

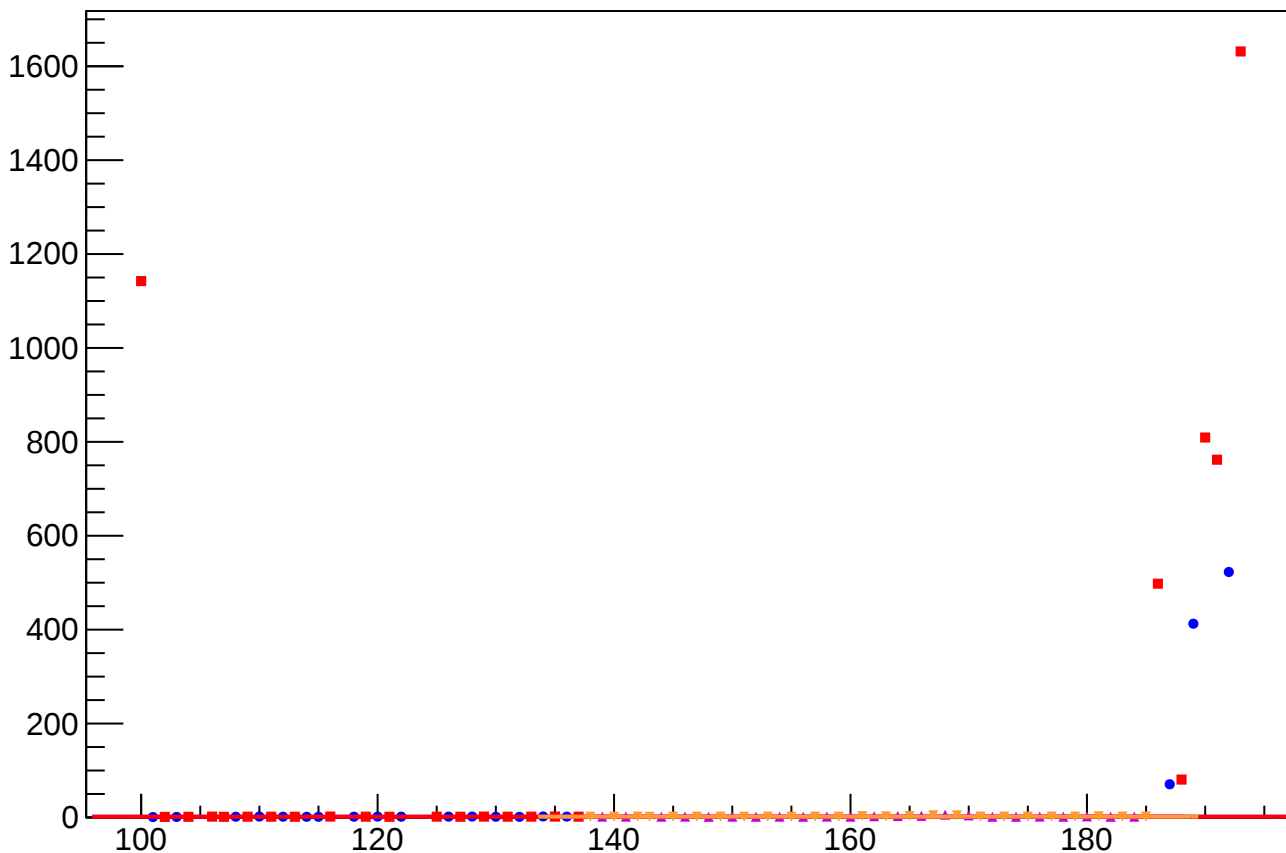
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.617 $\chi^2/\text{NDF}: 15.6/18$
Left Out: -0.765 ± 0.459 $\chi^2/\text{NDF}: 34.1/24$
Right Out: -0.339 ± 0.644 $\chi^2/\text{NDF}: 25.5/22$
Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.435 ± 0.333 $\chi^2/\text{NDF}: 60.2/47$
Right: 0.039 ± 0.445 $\chi^2/\text{NDF}: 41.7/41$
In: 0.106 ± 0.381 $\chi^2/\text{NDF}: 40.9/41$
Out: -0.621 ± 0.374 $\chi^2/\text{NDF}: 59.9/47$
All: -0.265 ± 0.267 $\chi^2/\text{NDF}: 102.6/89$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.421+/-0.000 χ^2/NDF : 2273180.3/18

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

Right Out: 1.558+/-0.000 χ^2/NDF : 2790911.6/22

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

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

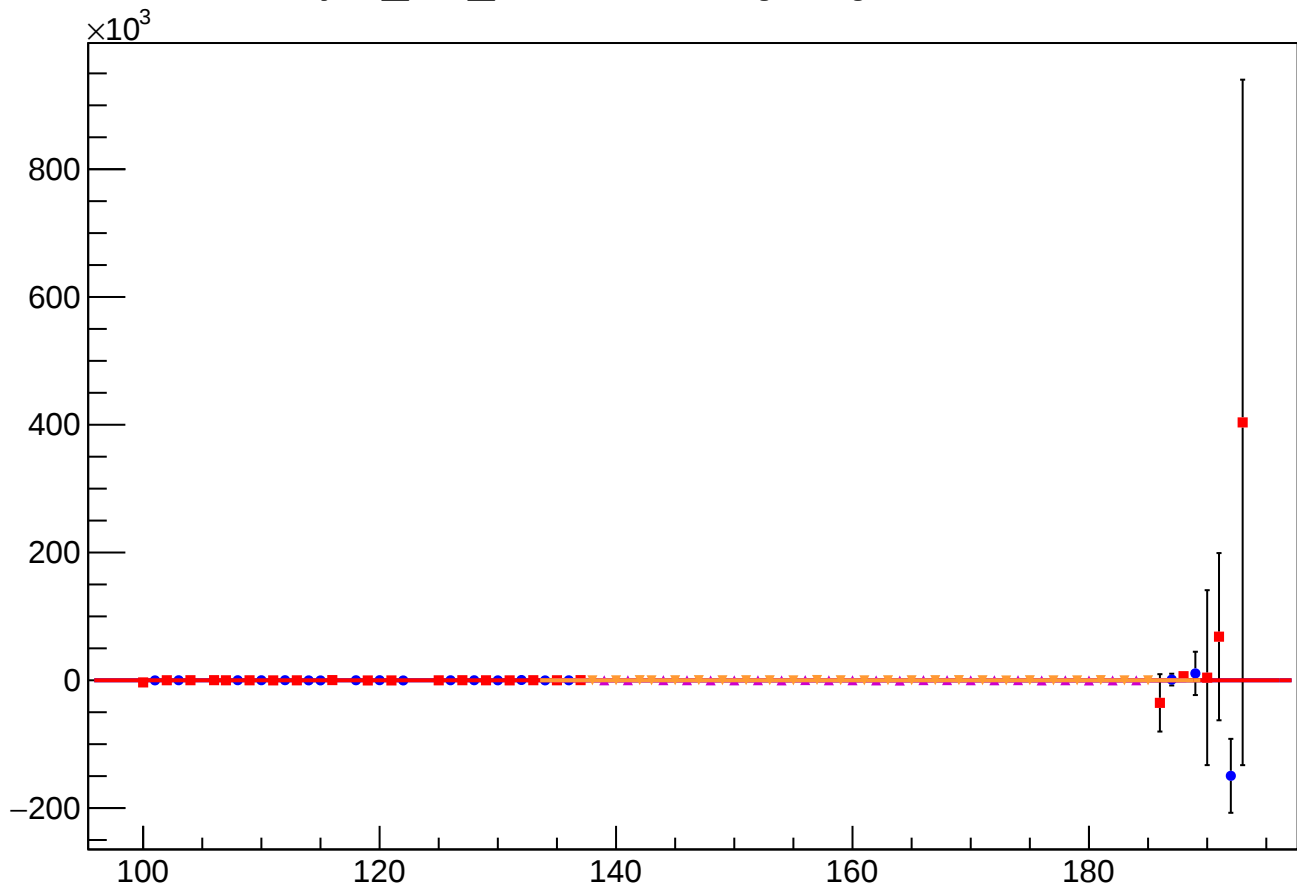
Right: 1.487+/-0.000 χ^2/NDF : 5111455.0/41

In: 1.657+/-0.000 χ^2/NDF : 4666572.5/41

Out: 1.683+/-0.000 χ^2/NDF : 4587606.3/47

All: 1.670+/-0.000 χ^2/NDF : 9258899.6/89

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.504 ± 36.781 $\chi^2/\text{NDF}: 23.5/18$

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

Right Out: 1.503 ± 36.765 $\chi^2/\text{NDF}: 16.2/22$

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

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

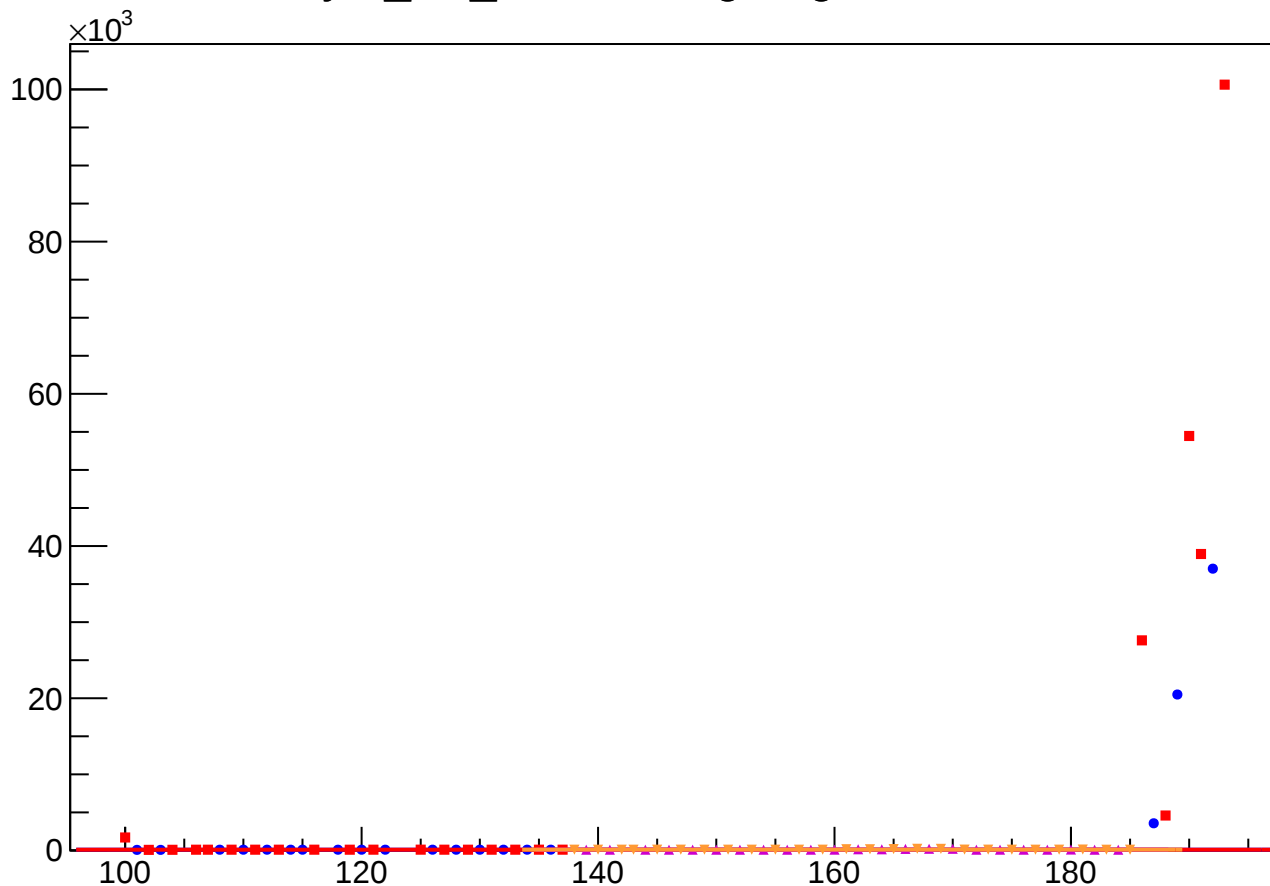
Right: 0.500 ± 26.002 $\chi^2/\text{NDF}: 39.6/41$

In: 16.555 ± 21.421 $\chi^2/\text{NDF}: 59.5/41$

Out: 6.158 ± 20.998 $\chi^2/\text{NDF}: 52.5/47$

All: 11.253 ± 14.995 $\chi^2/\text{NDF}: 112.1/89$

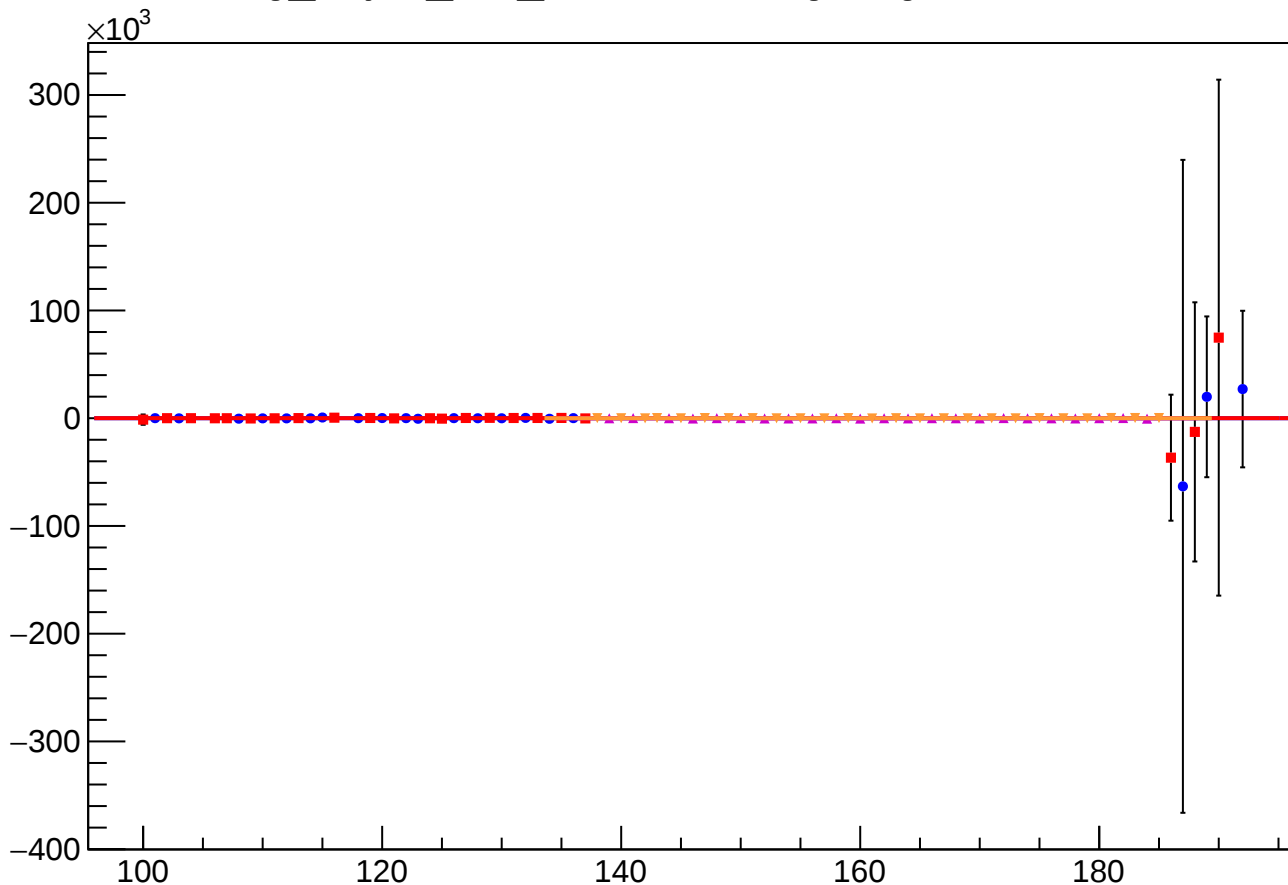
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.166+/-0.026 χ^2/NDF : 1989793.4/18
 Left Out: 107.620+/-0.018 χ^2/NDF : 1448769.2/24
 Right Out: 96.600+/-0.026 χ^2/NDF : 2988747.9/22
 Left In: 107.703+/-0.019 χ^2/NDF : 1492338.5/22

Left: 107.660+/-0.013 χ^2/NDF : 2941117.9/47
 Right: 95.384+/-0.018 χ^2/NDF : 4982922.9/41
 In: 103.112+/-0.015 χ^2/NDF : 3661153.9/41
 Out: 104.026+/-0.015 χ^2/NDF : 4558586.4/47
 All: 103.578+/-0.011 χ^2/NDF : 8221597.4/89

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.780 ± 46.841 $\chi^2/\text{NDF}: 14.7/19$

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

Right Out: 53.361 ± 47.775 $\chi^2/\text{NDF}: 15.9/21$

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

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

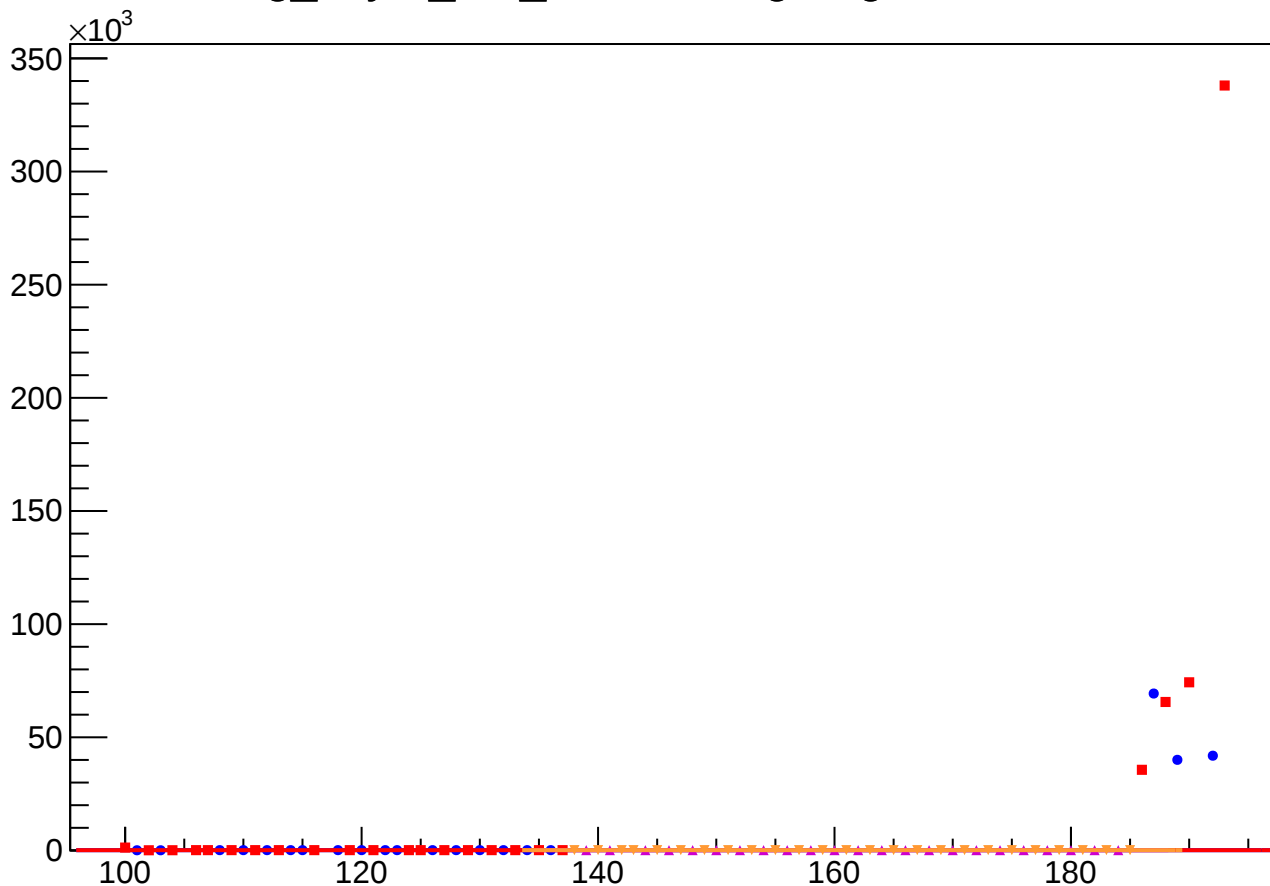
Right: 12.500 ± 33.447 $\chi^2/\text{NDF}: 32.0/41$

In: -52.575 ± 26.947 $\chi^2/\text{NDF}: 34.4/42$

Out: 7.725 ± 26.623 $\chi^2/\text{NDF}: 29.2/46$

All: -22.061 ± 18.939 $\chi^2/\text{NDF}: 66.2/89$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.798 $\pm$ 0.033 χ^2 /NDF: 2071378.0/19

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

Right Out: 124.764 $\pm$ 0.034 χ^2 /NDF: 2321482.9/22

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

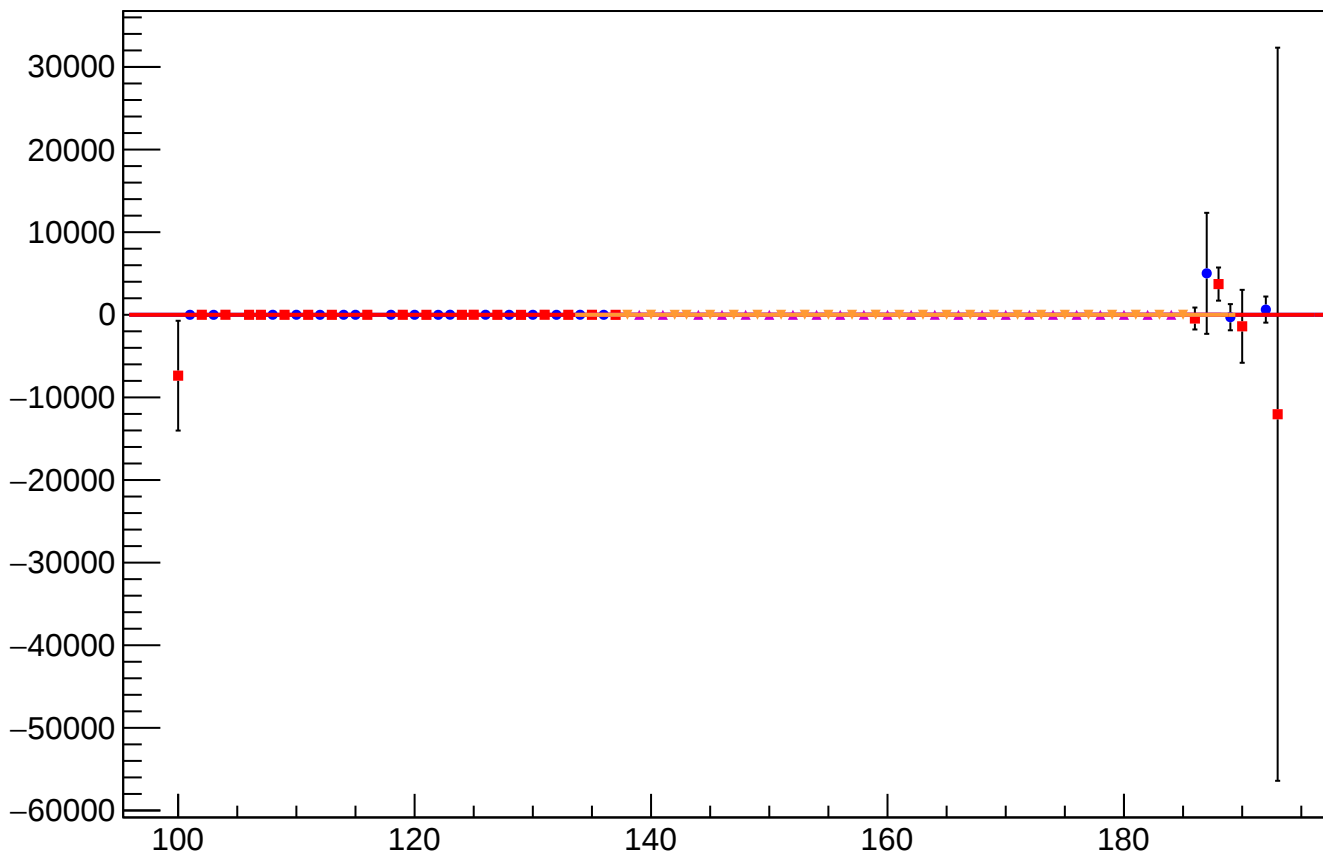
Right: 121.212 $\pm$ 0.024 χ^2 /NDF: 4414542.8/42

In: 131.183 $\pm$ 0.019 χ^2 /NDF: 2315946.7/42

Out: 133.791 $\pm$ 0.019 χ^2 /NDF: 2425483.2/47

All: 132.503 $\pm$ 0.013 χ^2 /NDF: 4750906.3/90

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 $\chi^2/\text{NDF}: 12.9/19$

Left Out: 0.490 ± 0.572 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.638 ± 0.852 $\chi^2/\text{NDF}: 18.4/22$

Left In: 0.290 ± 0.579 $\chi^2/\text{NDF}: 20.7/22$

Left: 0.391 ± 0.407 $\chi^2/\text{NDF}: 49.7/47$

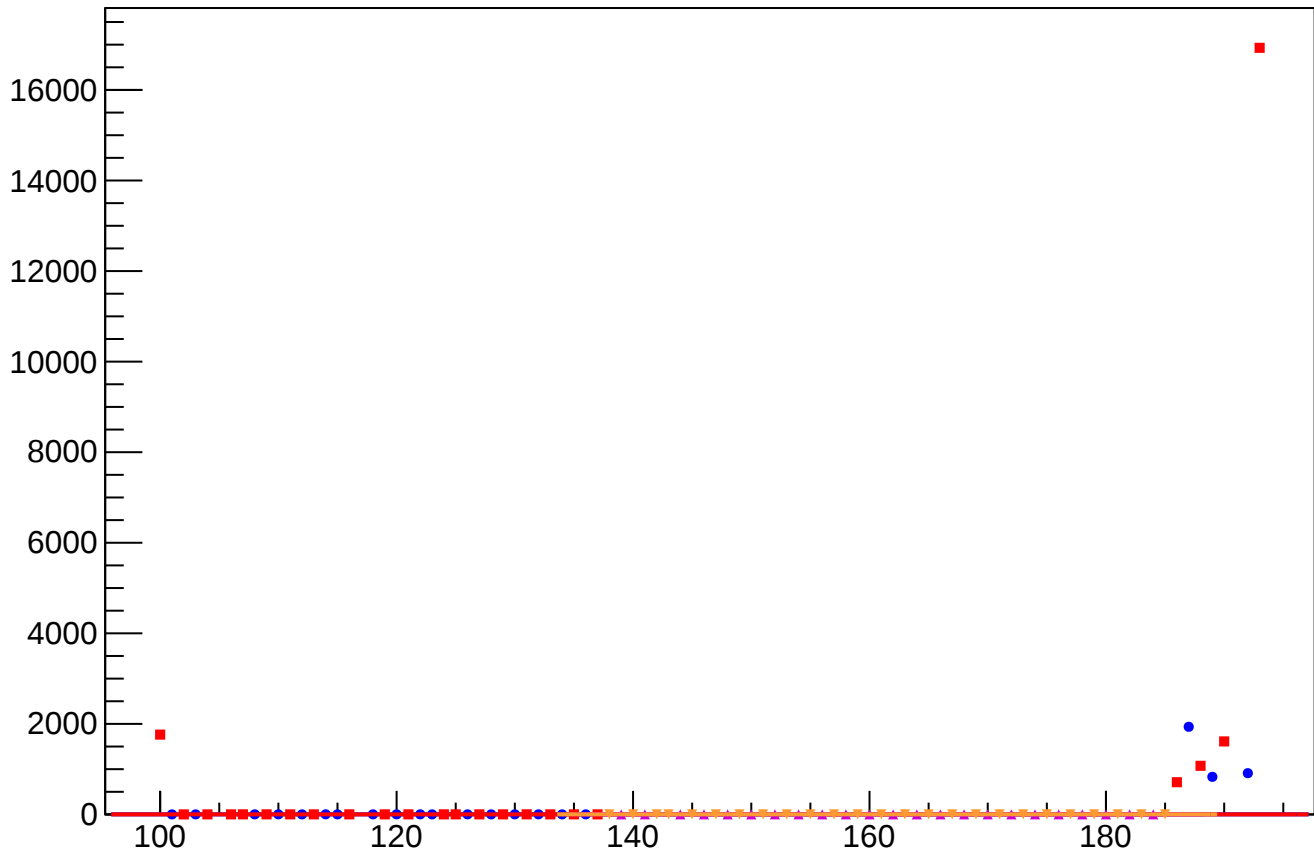
Right: -0.680 ± 0.587 $\chi^2/\text{NDF}: 31.3/42$

In: -0.052 ± 0.471 $\chi^2/\text{NDF}: 34.6/42$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 48.6/47$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 83.3/90$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866 $\pm$ 0.001 χ^2 /NDF: 1838789.0/19

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

Right Out: 2.064 $\pm$ 0.001 χ^2 /NDF: 2229424.0/22

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

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

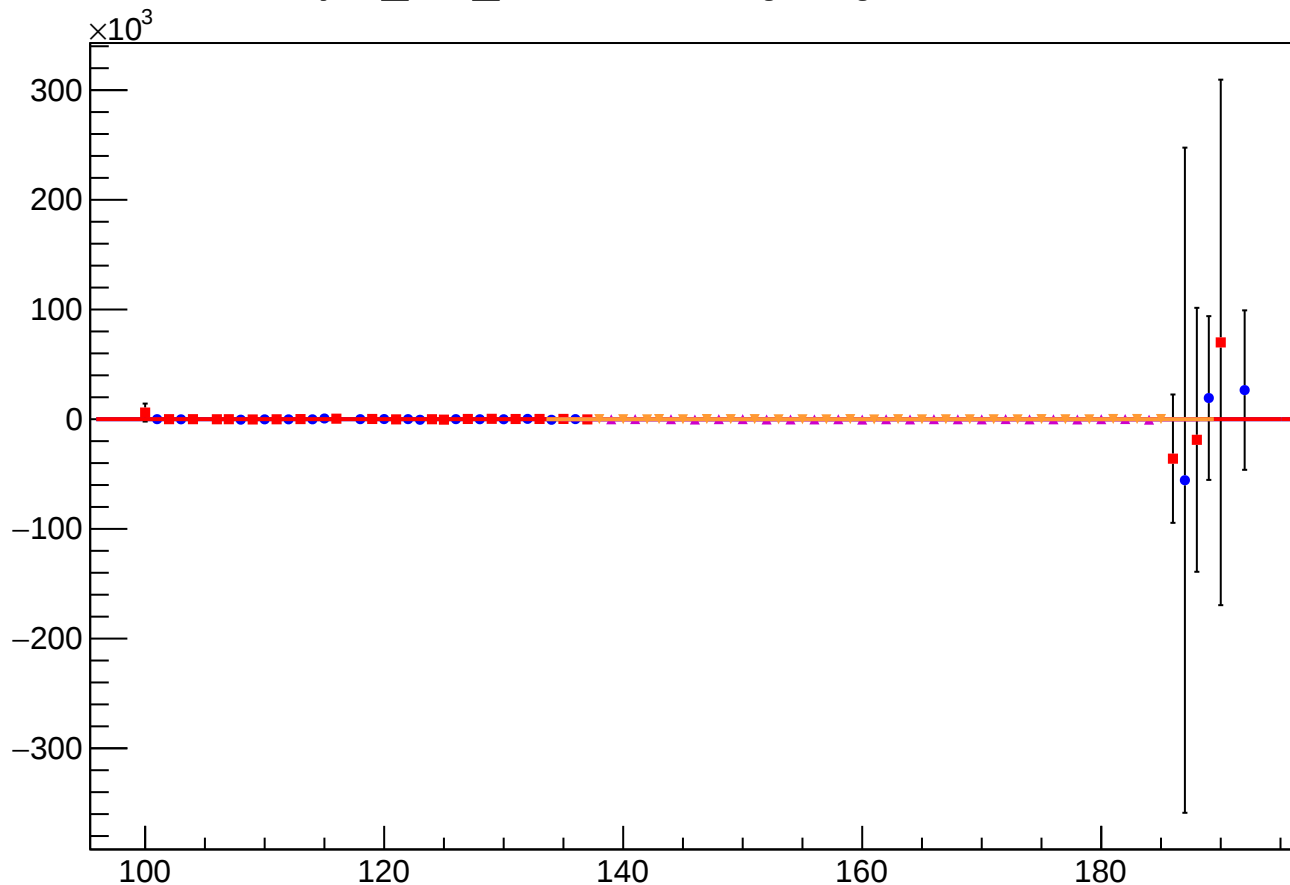
Right: 1.960 $\pm$ 0.000 χ^2 /NDF: 4125123.2/42

In: 2.082 $\pm$ 0.000 χ^2 /NDF:2565588.8/42

Out: 2.200 $\pm$ 0.000 χ^2 /NDF:2678656.1/47

All: 2.141 $\pm$ 0.000 χ^2 /NDF: 5306672.3/90

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.042+/-46.854 χ^2 /NDF: 14.7/19

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

Right Out: 54.261+/-47.789 χ^2 /NDF: 16.6/21

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

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

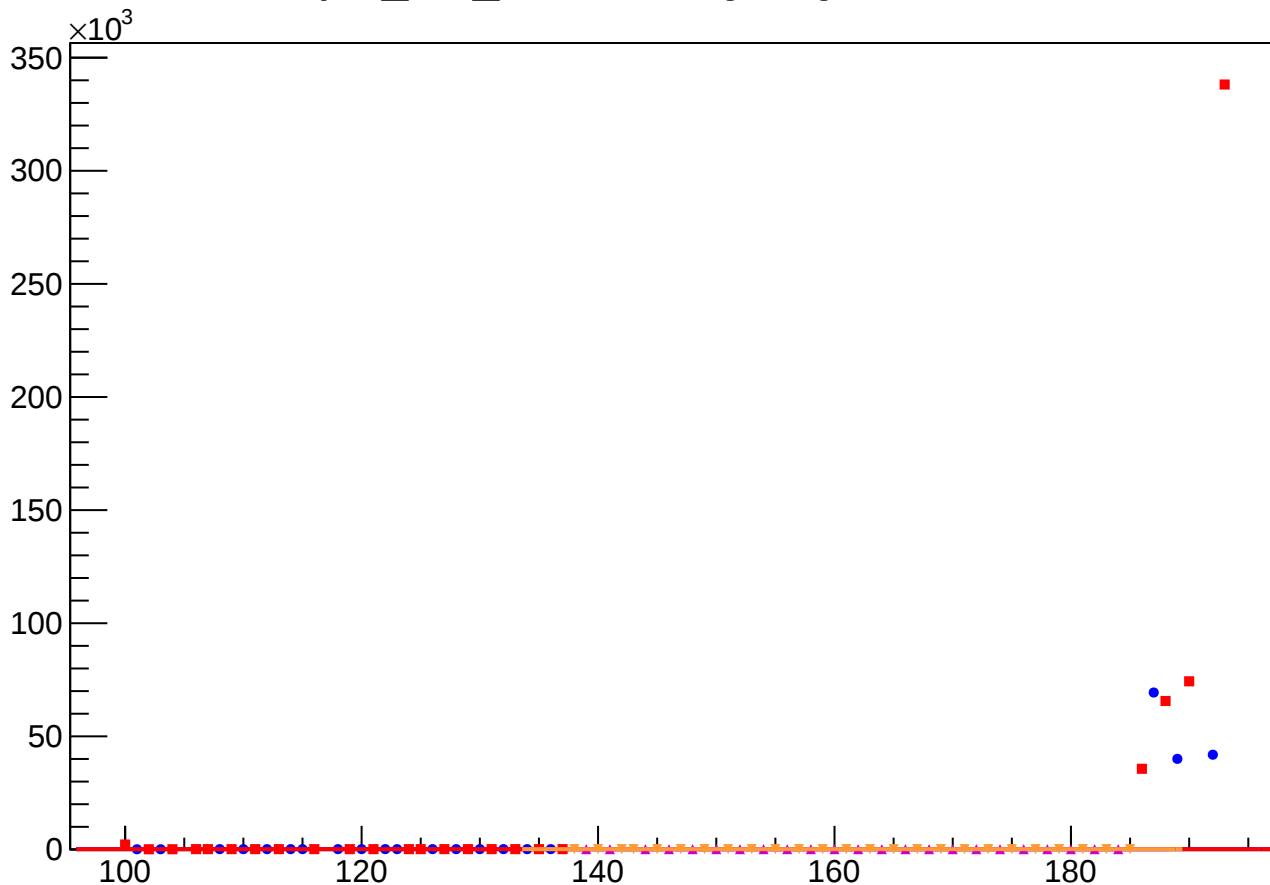
Right: 13.826+/-33.456 χ^2 /NDF: 32.7/41

In: -51.931+/-26.954 χ^2 /NDF:34.6/42

Out: 7.623+/-26.631 χ^2 /NDF:29.7/46

All: -21.794+/-18.944 χ^2 /NDF: 66.8/89

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.830 $\pm$ 0.033 χ^2 /NDF: 2071423.1/19

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

Right Out: 124.753 $\pm$ 0.034 χ^2 /NDF: 2332073.2/22

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

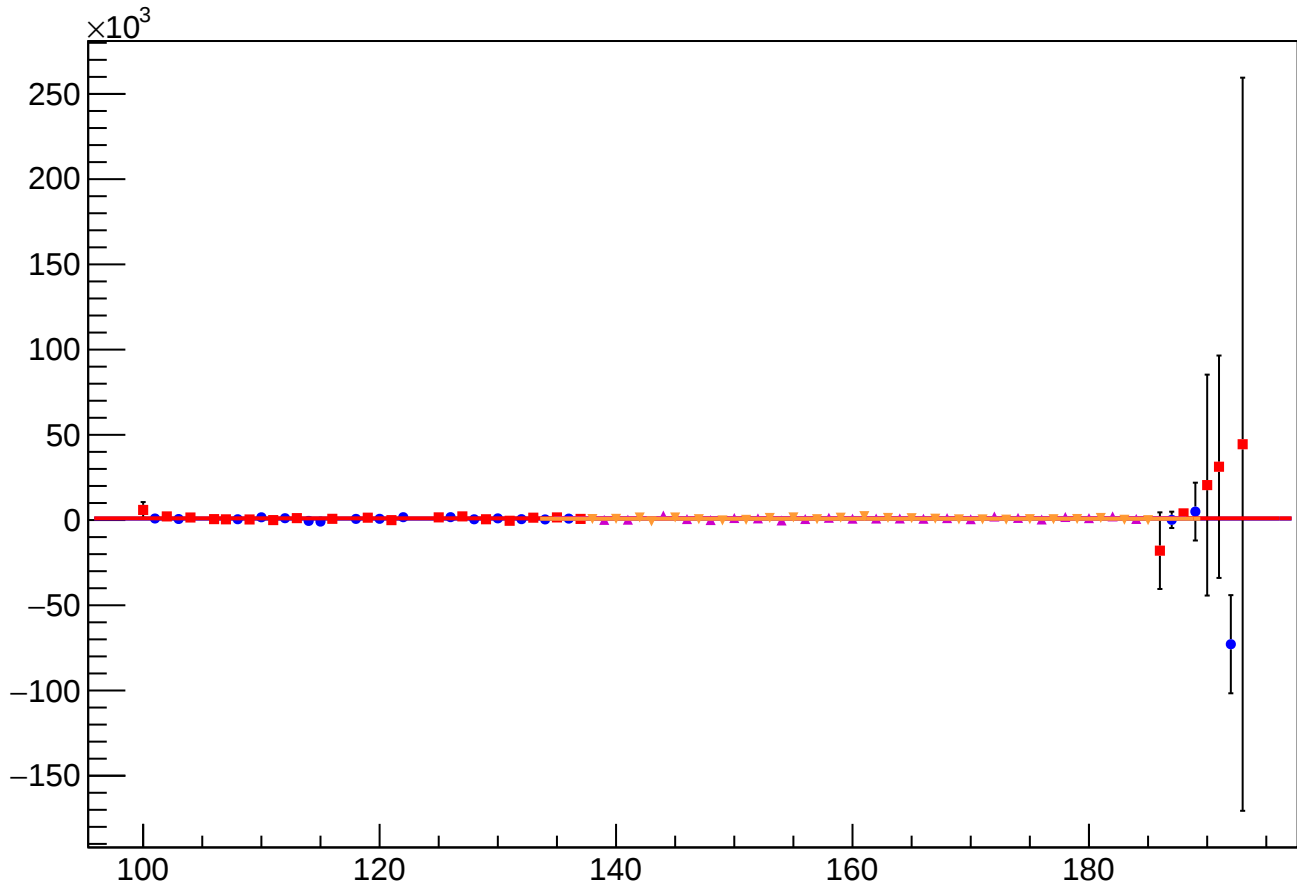
Right: 121.223 $\pm$ 0.024 χ^2 /NDF: 4424900.0/42

In: 131.220 $\pm$ 0.019 χ^2 /NDF: 2316027.1/42

Out: 133.814 $\pm$ 0.019 χ^2 /NDF: 2436797.7/47

All: 132.533 $\pm$ 0.013 χ^2 /NDF: 4762200.9/90

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 842.045 $\pm$ 216.421 χ^2 /NDF: 11.9/18

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

Right Out: 1012.520 $\pm$ 212.648 χ^2 /NDF: 16.2/22

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

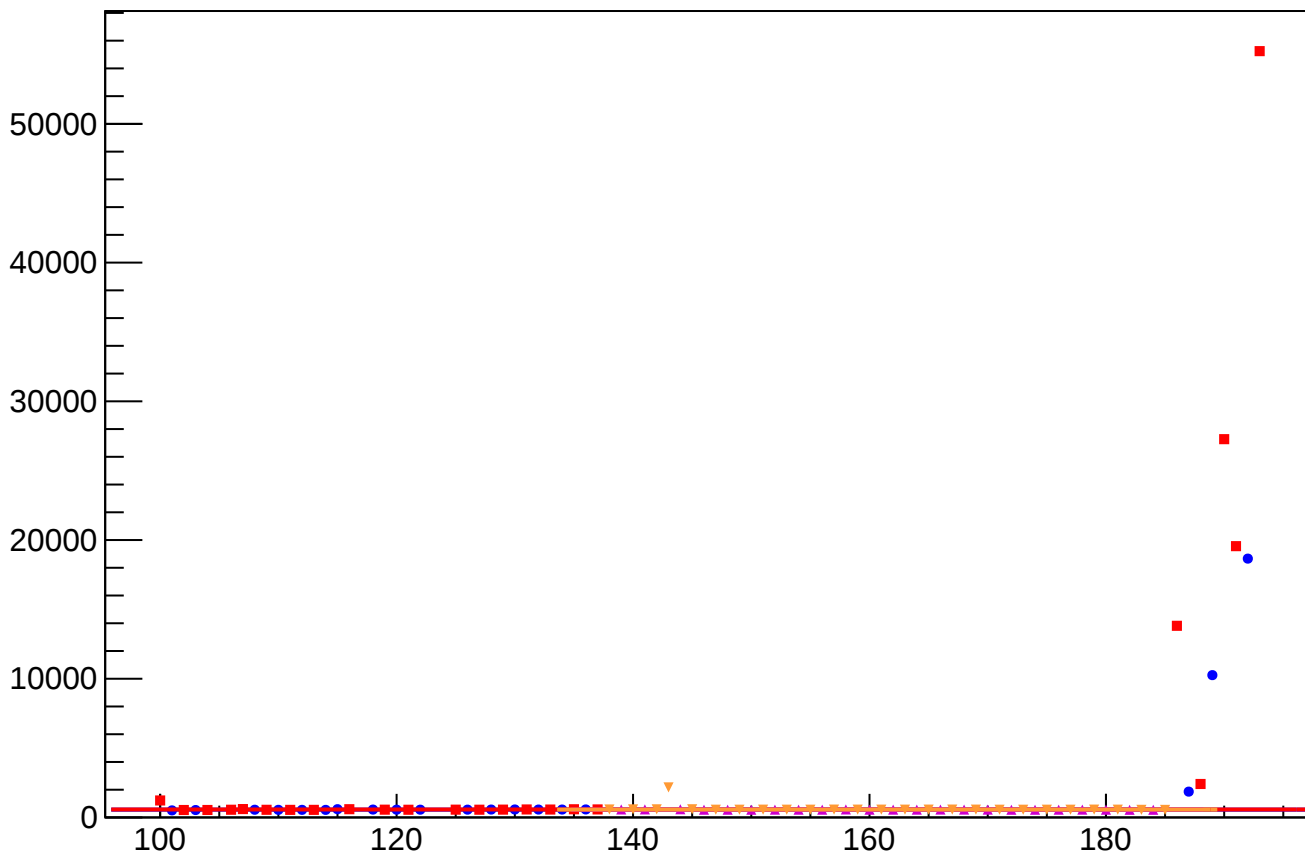
Right: 928.782 $\pm$ 151.681 χ^2 /NDF: 28.3/41

In: 937.354 $\pm$ 114.501 χ^2 /NDF:39.6/41

Out: 845.803 $\pm$ 113.281 χ^2 /NDF:36.6/47

All: 891.088 $\pm$ 80.530 χ^2 /NDF: 76.5/89

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 562.142+/-0.153 χ^2/NDF : 1614385.0/18

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

Right Out: 574.650+/-0.150 χ^2/NDF : 2250618.3/22

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

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

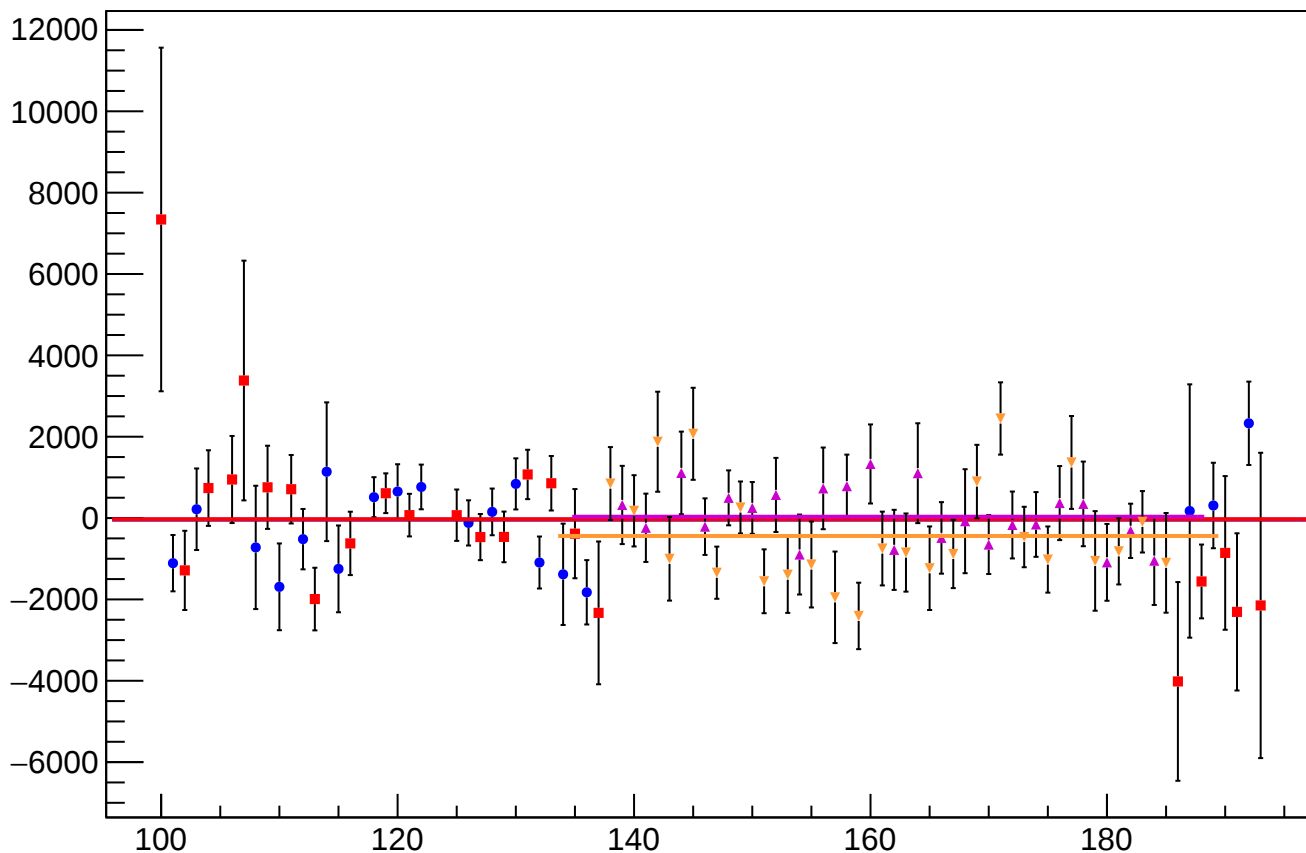
Right: 568.506+/-0.107 χ^2/NDF : 3868402.3/41

In: 563.756+/-0.081 χ^2/NDF : 1623748.9/41

Out: 570.514+/-0.080 χ^2/NDF : 3105389.6/47

All: 567.171+/-0.057 χ^2/NDF : 4732659.0/89

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -37.138 $\pm$ 175.258 χ^2 /NDF: 28.2/18

Left Out: -440.022 $\pm$ 177.884 χ^2 /NDF:43.5/24

Right Out: -30.779 $\pm$ 173.822 χ^2 /NDF: 33.1/22

Left In: 32.411 $\pm$ 179.430 χ^2 /NDF:12.2/22

Left: -205.851 $\pm$ 126.326 χ^2 /NDF: 59.2/47

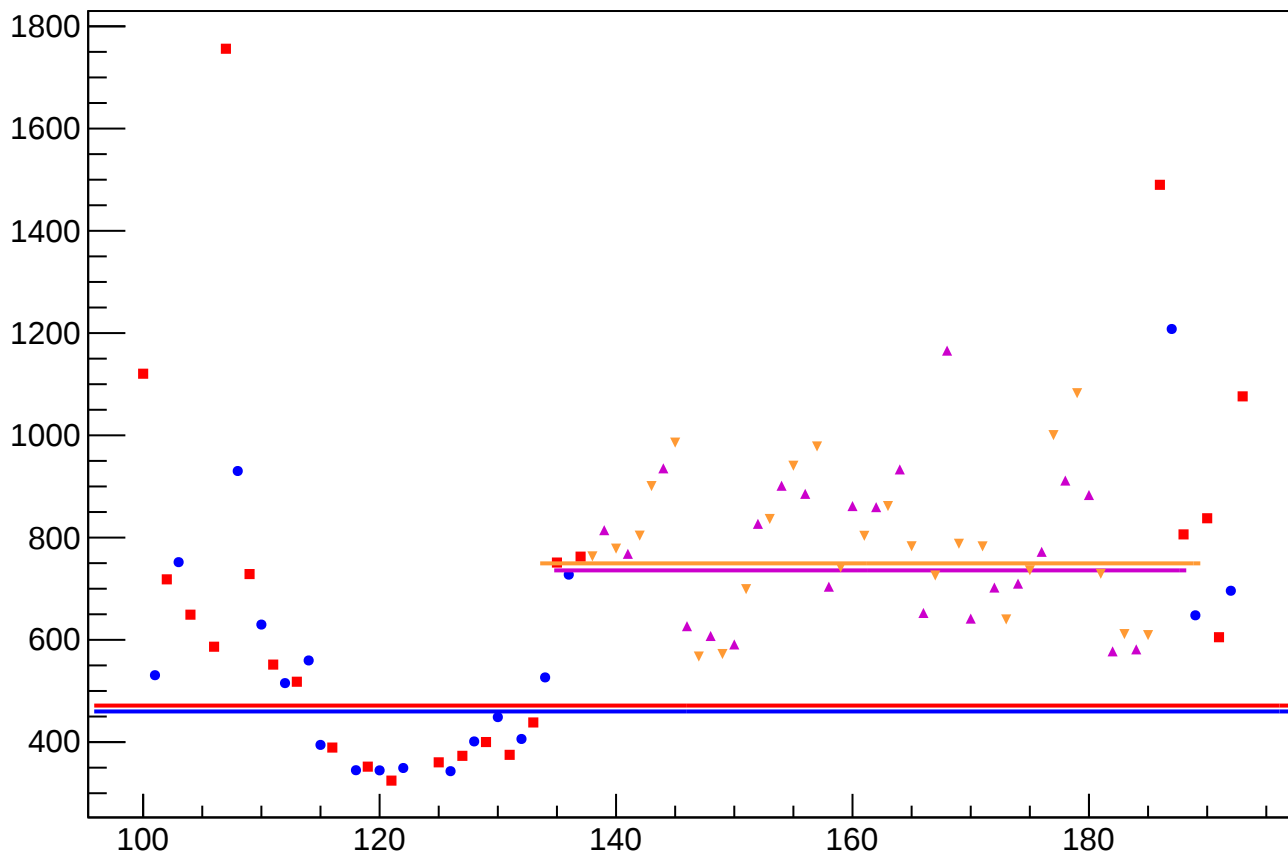
Right: -33.932 $\pm$ 123.415 χ^2 /NDF: 61.4/41

In: -3.181 $\pm$ 125.375 χ^2 /NDF:40.5/41

Out: -230.676 $\pm$ 124.322 χ^2 /NDF:79.4/47

All: -117.888 $\pm$ 88.279 χ^2 /NDF: 121.5/89

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 459.947 $\pm$ 0.124 χ^2/NDF : 1352930.4/18

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

Right Out: 471.449 $\pm$ 0.123 χ^2/NDF : 2248794.2/22

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

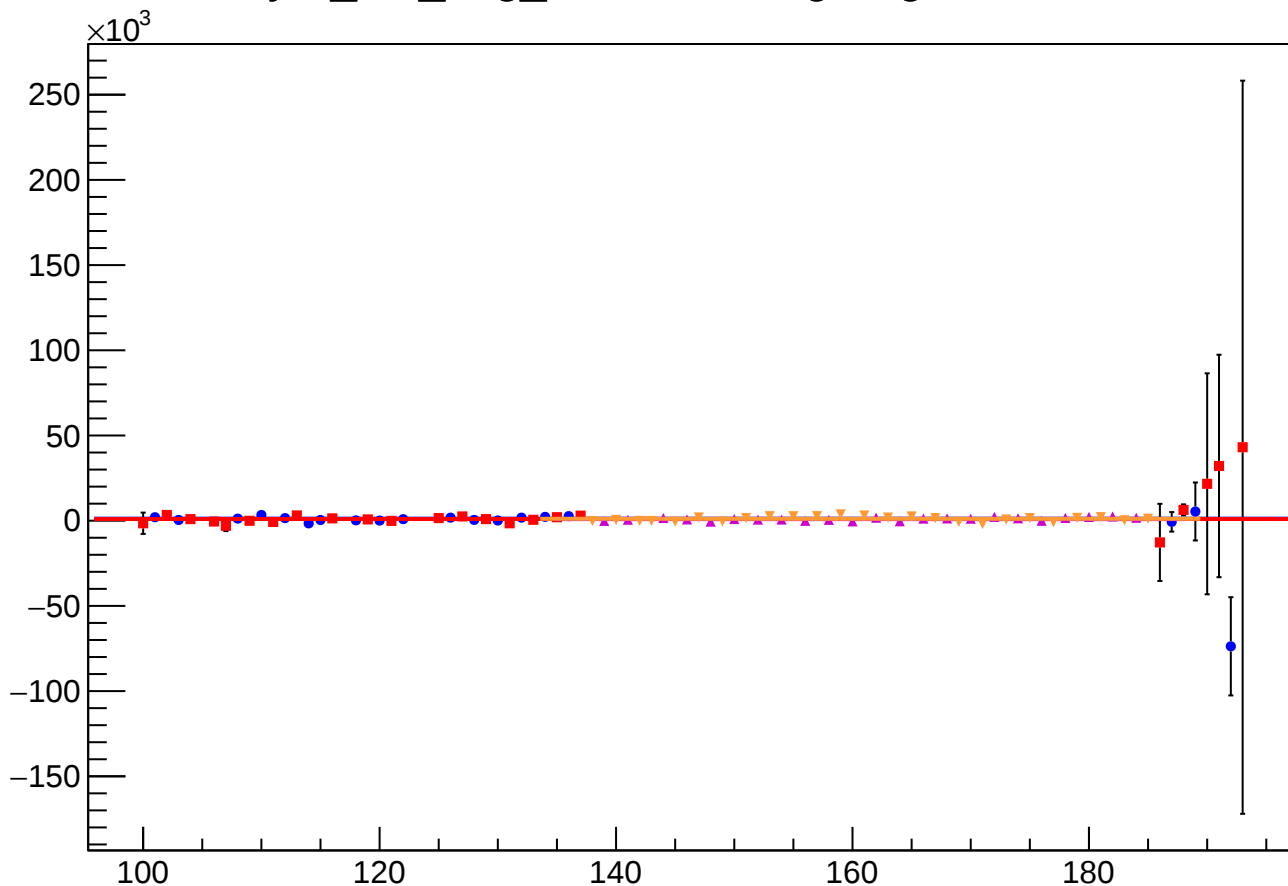
Right: 465.745 $\pm$ 0.087 χ^2/NDF : 3606066.8/41

In: 594.653 $\pm$ 0.089 χ^2/NDF :4878355.1/41

Out: 607.302 $\pm$ 0.088 χ^2/NDF :5803377.4/47

All: 601.031 $\pm$ 0.062 χ^2/NDF : 10691996.5/89

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1184.584 $\pm$ 295.643 χ^2 /NDF: 18.6/18

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

Right Out: 986.350 $\pm$ 292.971 χ^2 /NDF: 26.6/22

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

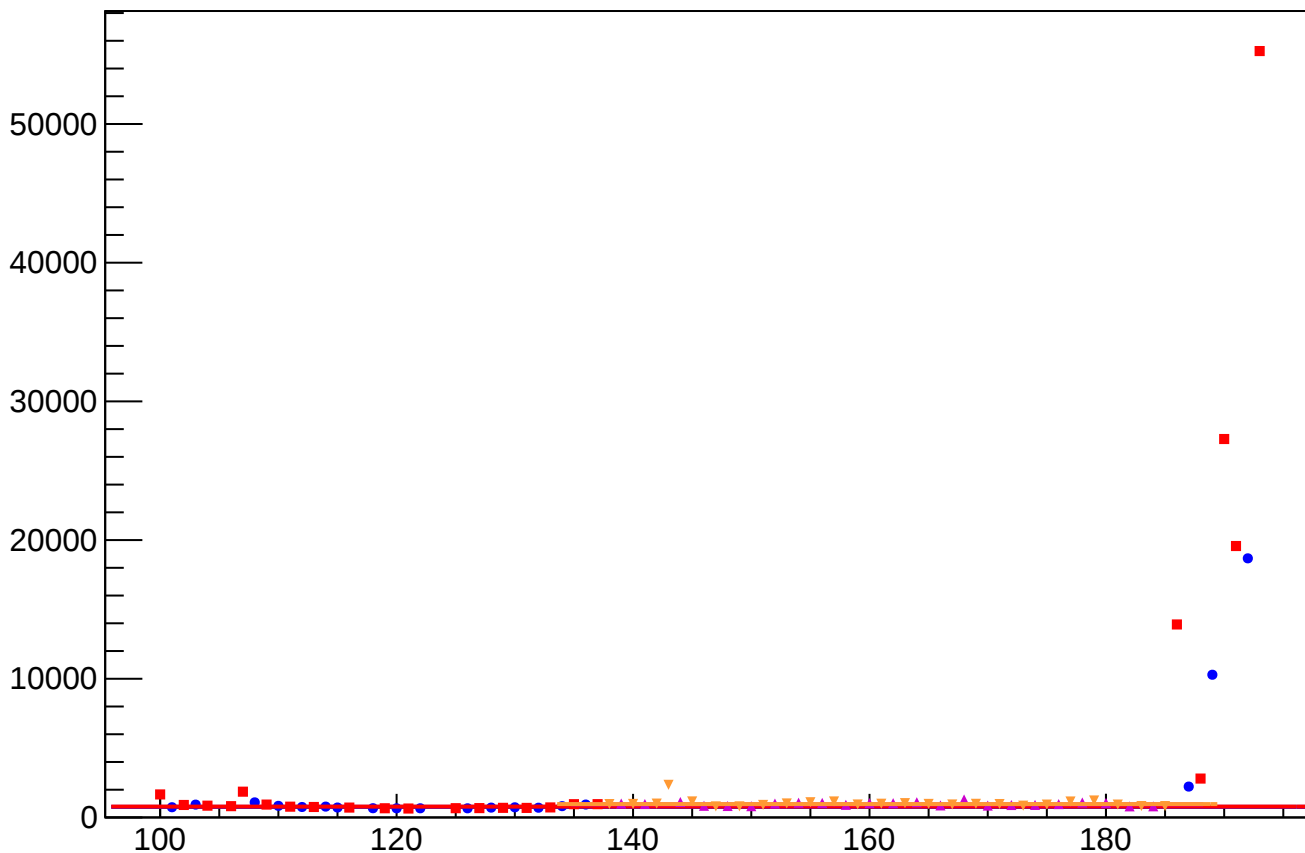
Right: 1084.567 $\pm$ 208.100 χ^2 /NDF: 45.5/41

In: 1032.444 $\pm$ 180.707 χ^2 /NDF: 33.8/41

Out: 1074.944 $\pm$ 179.933 χ^2 /NDF: 65.9/47

All: 1053.785 $\pm$ 127.505 χ^2 /NDF: 99.8/89

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 762.509+/-0.209 χ^2/NDF : 1786682.7/18

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

Right Out: 782.437+/-0.207 χ^2/NDF : 2623798.1/22

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

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

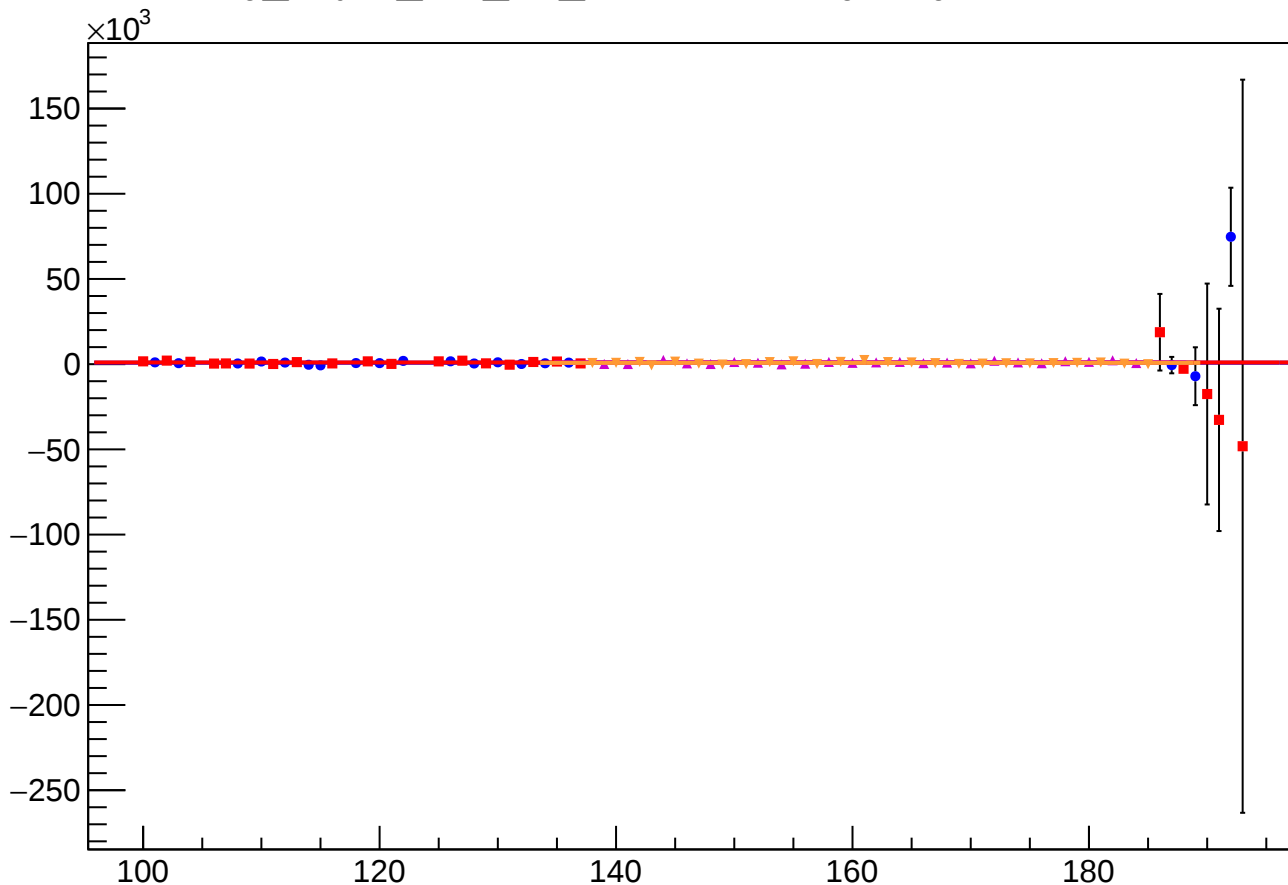
Right: 772.563+/-0.147 χ^2/NDF : 4415065.7/41

In: 877.805+/-0.128 χ^2/NDF : 2773652.4/41

Out: 895.821+/-0.127 χ^2/NDF : 4107554.1/47

All: 886.852+/-0.090 χ^2/NDF : 6891188.8/89

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 845.422 ± 216.255 χ^2/NDF : 13.0/18

Left Out: 753.308 ± 133.745 χ^2/NDF : 21.4/24

Right Out: 1003.980 ± 207.658 χ^2/NDF : 15.1/22

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

Left: 855.088 ± 94.951 χ^2/NDF : 49.4/47

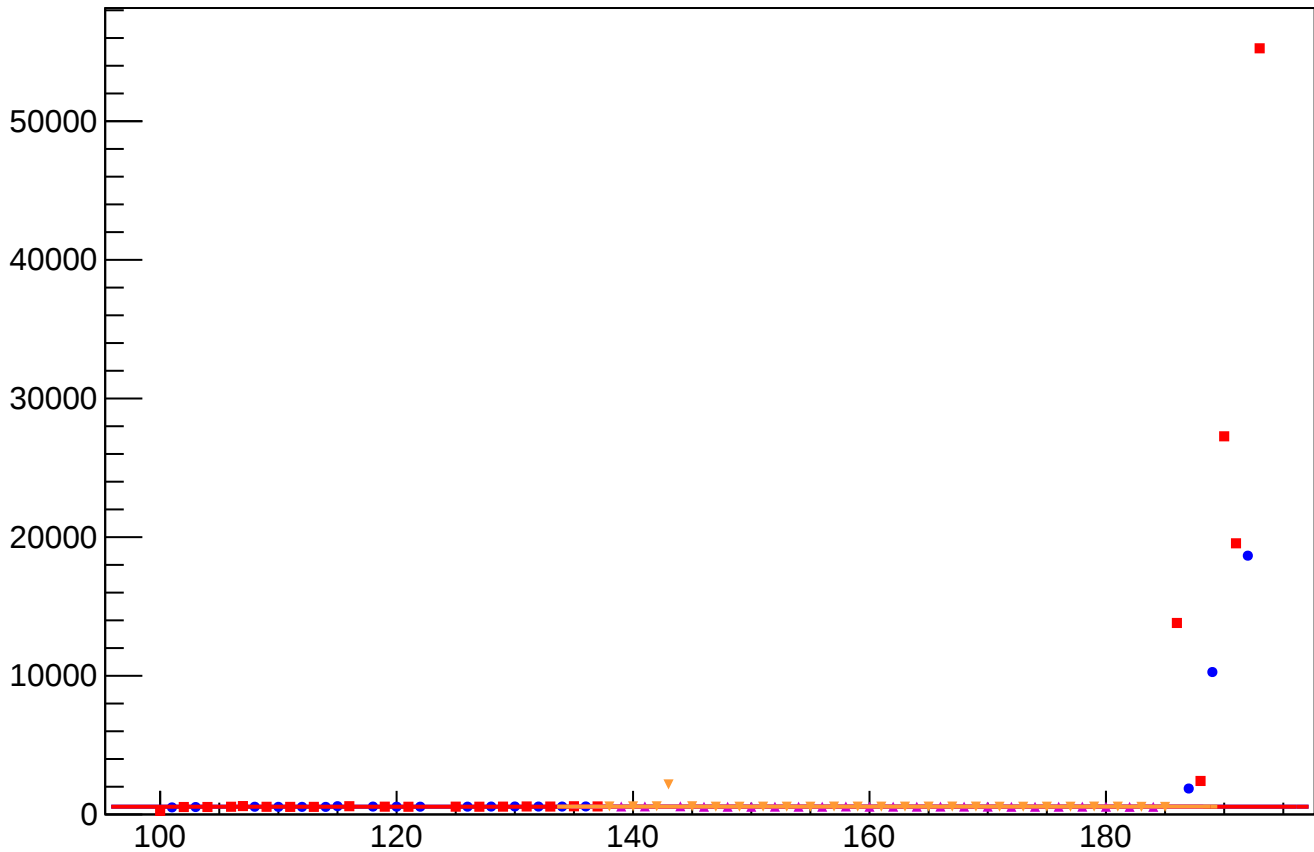
Right: 927.915 ± 149.783 χ^2/NDF : 28.3/41

In: 926.862 ± 114.411 χ^2/NDF : 40.0/41

Out: 826.804 ± 112.441 χ^2/NDF : 37.5/47

All: 875.964 ± 80.195 χ^2/NDF : 77.9/89

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 561.693+/-0.153 χ^2/NDF : 1615561.0/18

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

Right Out: 557.873+/-0.147 χ^2/NDF : 2421835.1/22

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

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

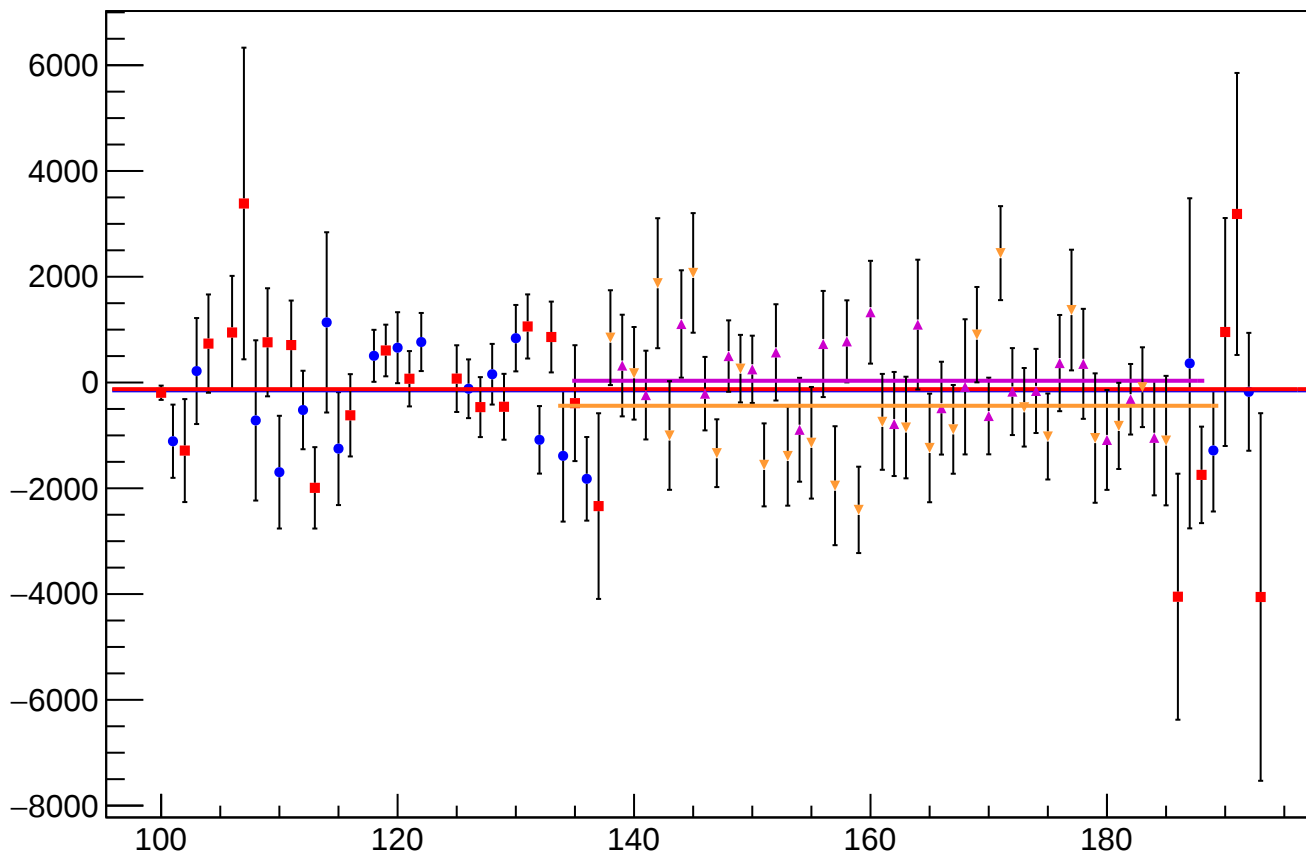
Right: 559.706+/-0.106 χ^2/NDF : 4037720.8/41

In: 563.307+/-0.081 χ^2/NDF : 1624920.2/41

Out: 565.313+/-0.080 χ^2/NDF : 3279480.6/47

All: 564.328+/-0.057 χ^2/NDF : 4904713.8/89

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -148.073 ± 175.997 $\chi^2/\text{NDF}: 23.5/18$

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

Right Out: -125.545 ± 106.725 $\chi^2/\text{NDF}: 32.8/22$

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

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

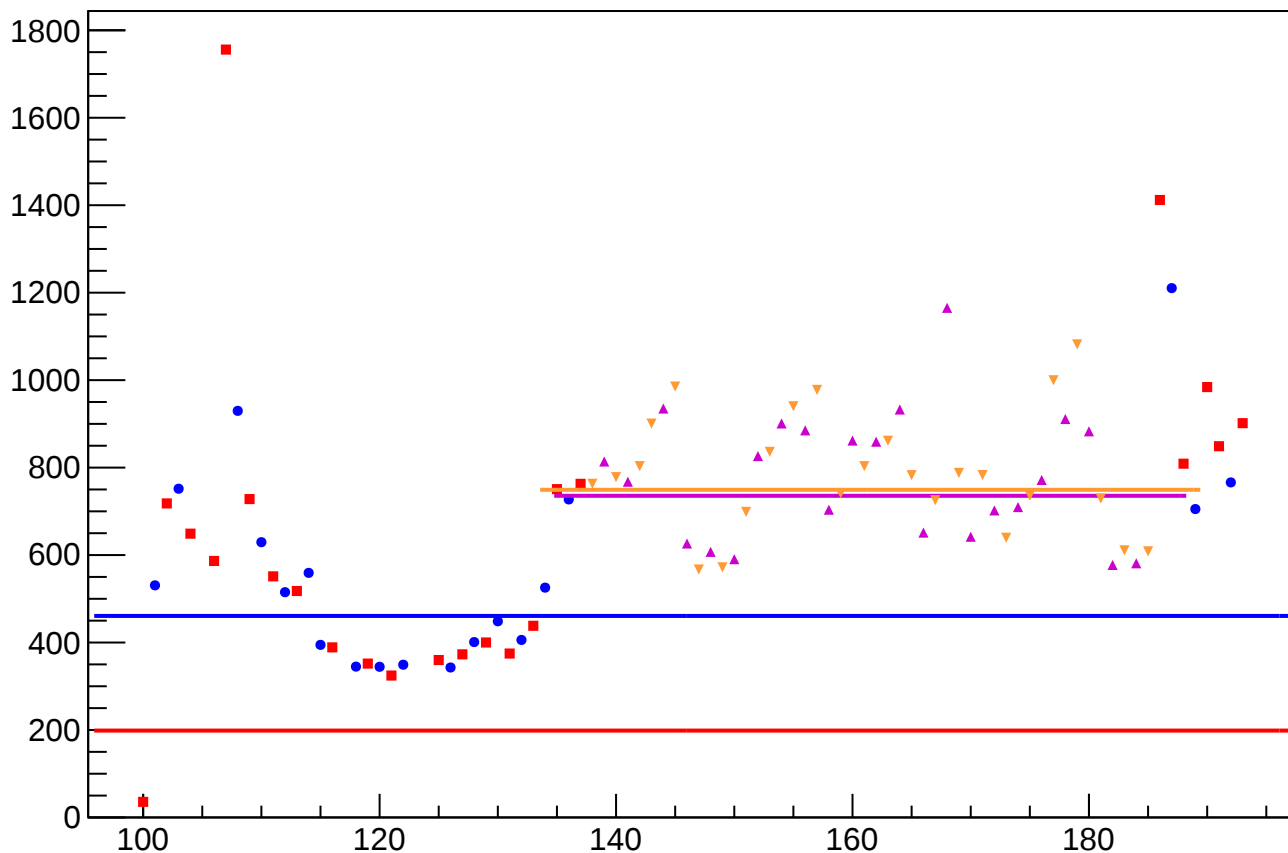
Right: -131.602 ± 91.257 $\chi^2/\text{NDF}: 56.4/41$

In: -59.088 ± 125.619 $\chi^2/\text{NDF}: 36.2/41$

Out: -208.739 ± 91.507 $\chi^2/\text{NDF}: 78.7/47$

All: -156.859 ± 73.964 $\chi^2/\text{NDF}: 115.8/89$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 460.826 $\pm$ 0.124 χ^2/NDF : 1424417.9/18

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

Right Out: 198.681 $\pm$ 0.075 χ^2/NDF : 10015869.5/22

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

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

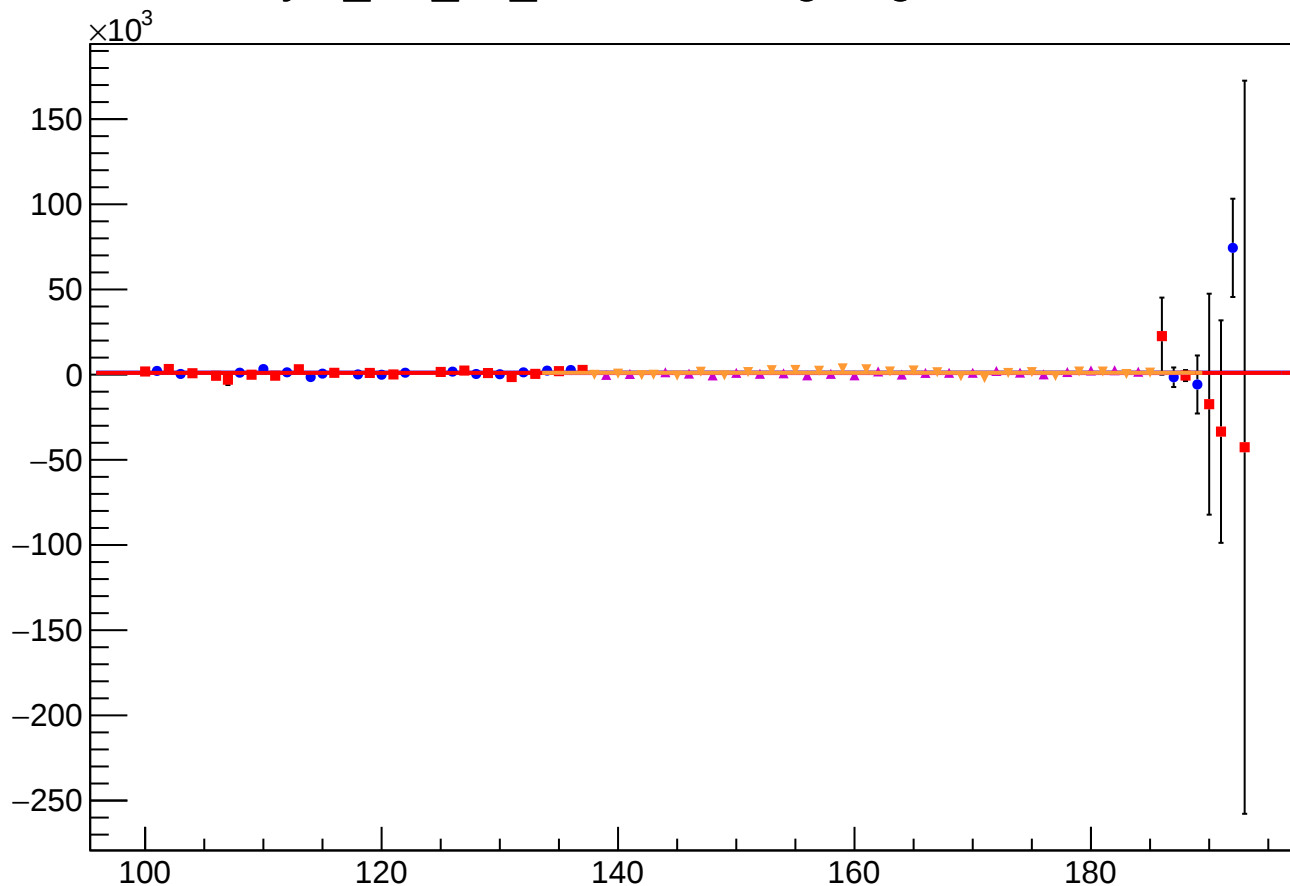
Right: 269.161 $\pm$ 0.065 χ^2/NDF : 14684446.0/41

In: 595.589 $\pm$ 0.089 χ^2/NDF :4920047.1/41

Out: 344.506 $\pm$ 0.065 χ^2/NDF :25168097.2/47

All: 431.551 $\pm$ 0.052 χ^2/NDF : 35308235.2/89

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1185.378 $\pm$ 295.446 χ^2 /NDF: 18.5/18

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

Right Out: 1038.012 $\pm$ 280.546 χ^2 /NDF: 24.0/22

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

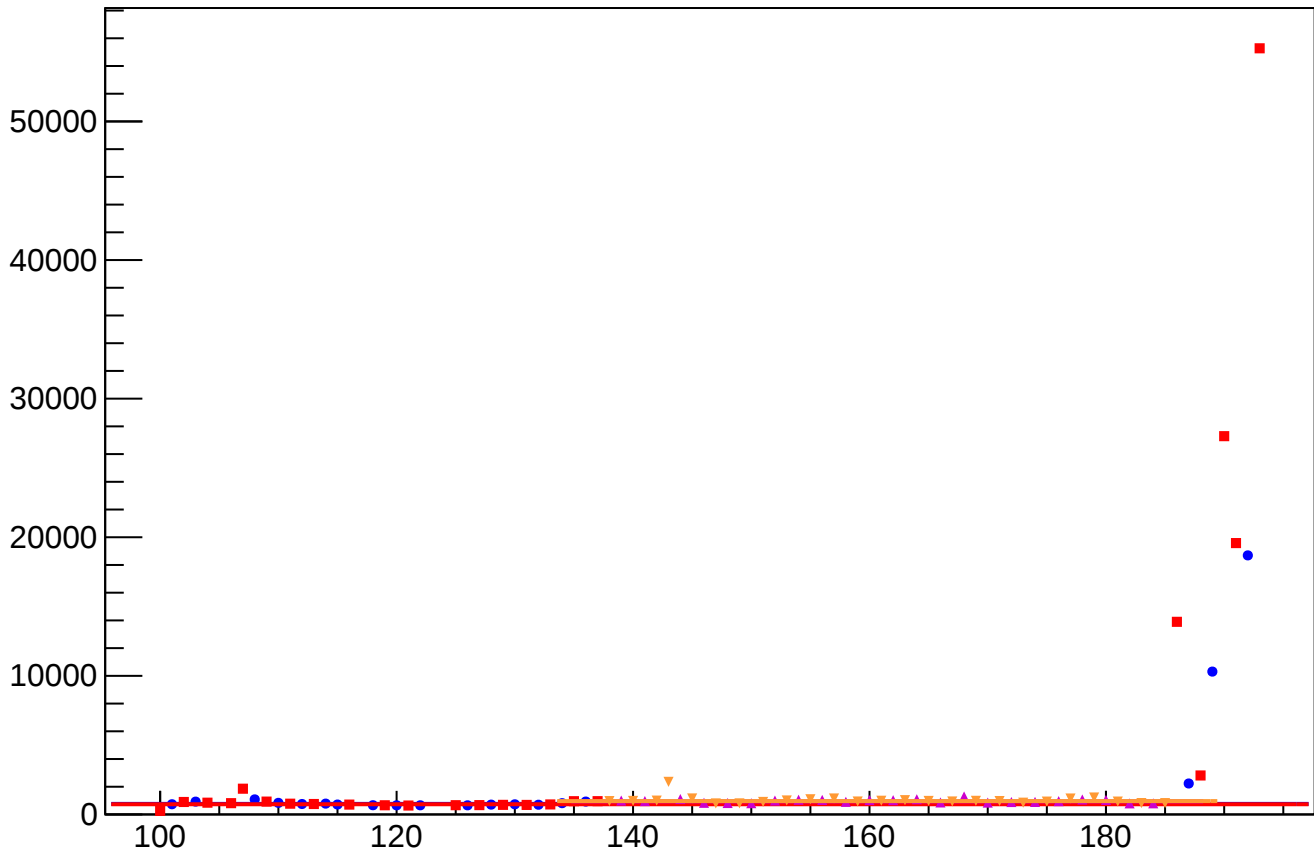
Right: 1107.885 $\pm$ 203.439 χ^2 /NDF: 42.6/41

In: 1023.094 $\pm$ 180.599 χ^2 /NDF:34.1/41

Out: 1073.270 $\pm$ 176.875 χ^2 /NDF:62.5/47

All: 1048.705 $\pm$ 126.366 χ^2 /NDF: 96.6/89

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 761.970+/-0.209 χ^2/NDF : 1788082.7/18

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

Right Out: 736.108+/-0.198 χ^2/NDF : 3120980.8/22

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

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

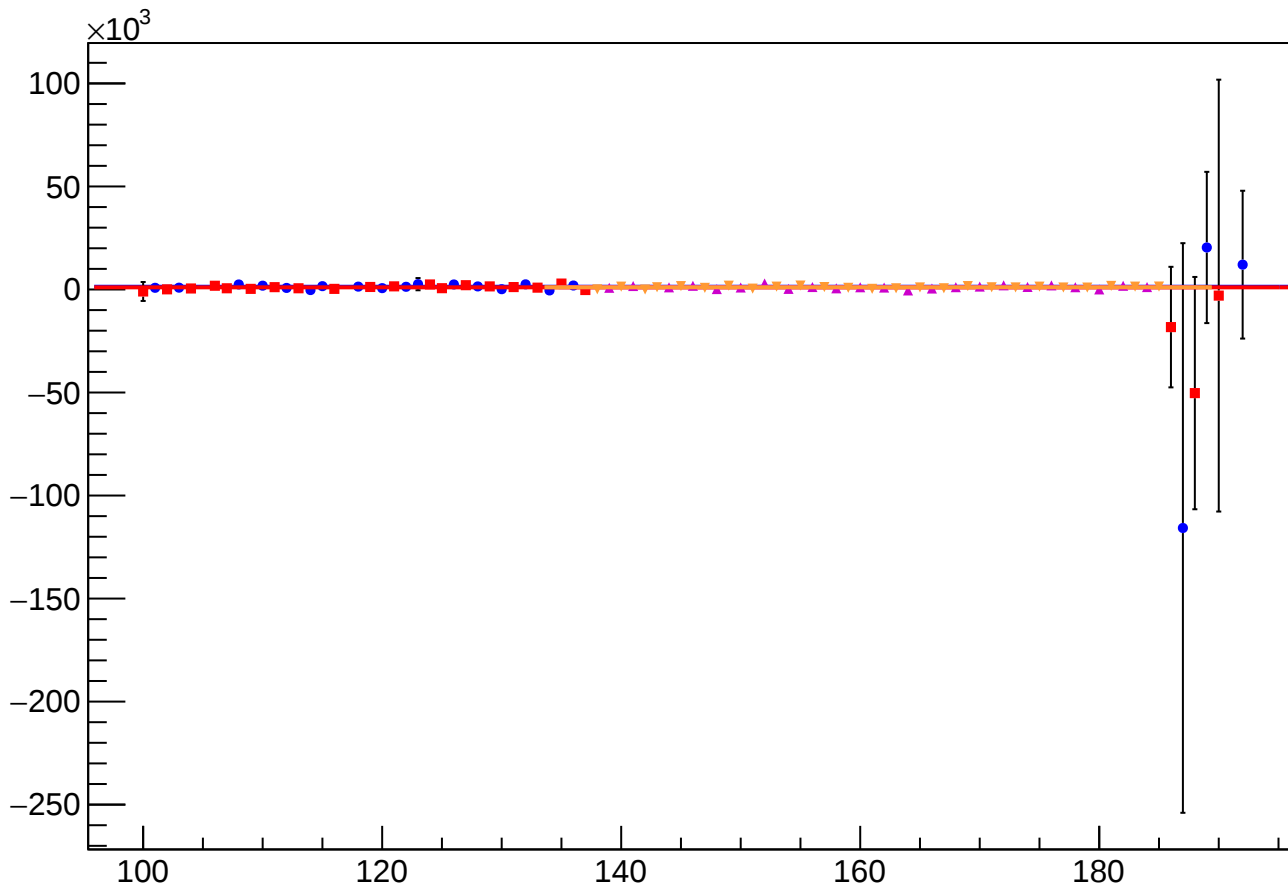
Right: 748.370+/-0.144 χ^2/NDF : 4917122.1/41

In: 877.261+/-0.128 χ^2/NDF : 2775772.7/41

Out: 873.375+/-0.125 χ^2/NDF : 4918756.2/47

All: 875.278+/-0.089 χ^2/NDF : 7695001.7/89

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.833 $\pm$ 218.592 χ^2 /NDF: 13.9/19

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

Right Out: 1038.744 $\pm$ 212.072 χ^2 /NDF: 14.8/21

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

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

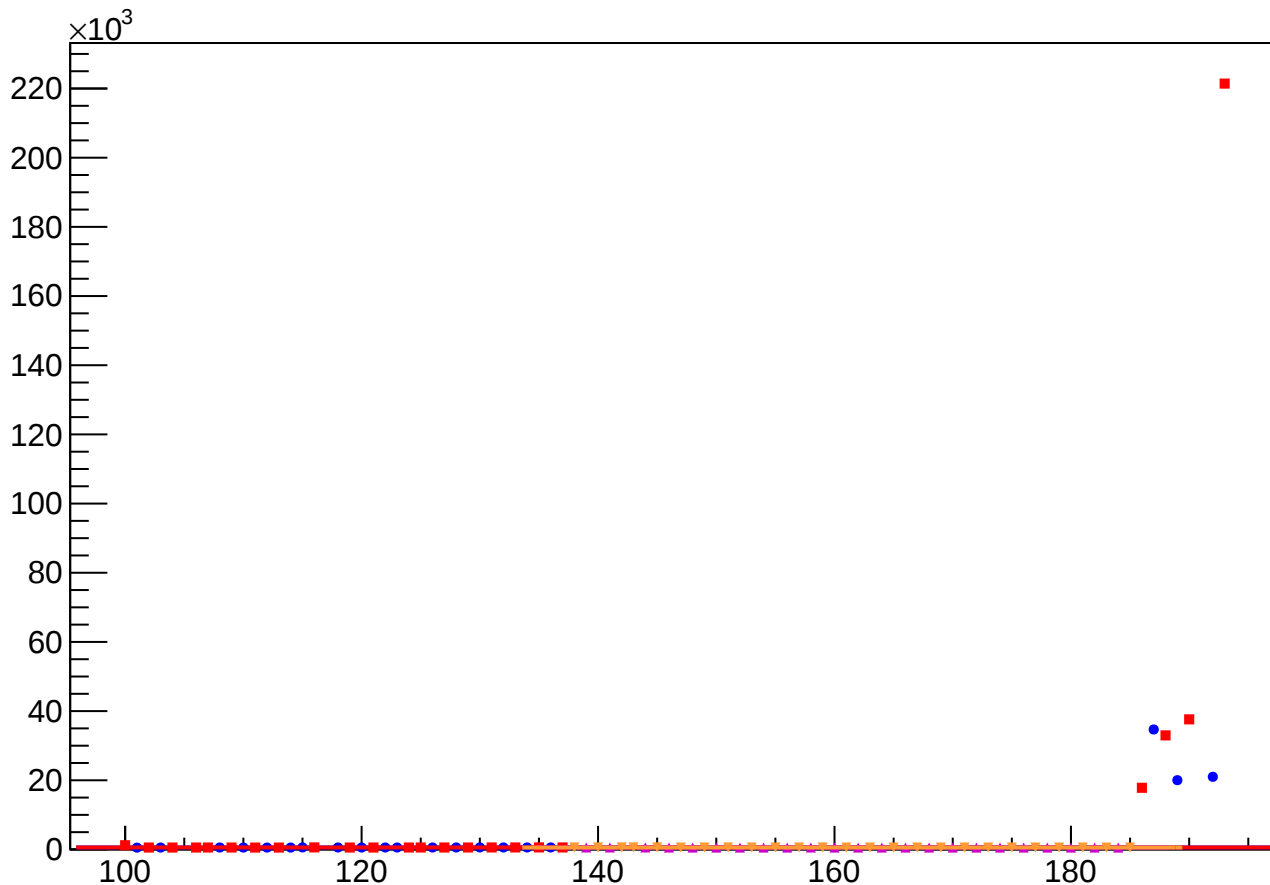
Right: 1177.458 $\pm$ 152.210 χ^2 /NDF: 29.5/41

In: 1178.253 $\pm$ 113.723 χ^2 /NDF:44.5/42

Out: 1064.131 $\pm$ 110.641 χ^2 /NDF:29.9/46

All: 1119.625 $\pm$ 79.302 χ^2 /NDF: 74.9/89

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 565.066 $\pm$ 0.155 χ^2 /NDF: 1356634.4/19

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

Right Out: 566.876 $\pm$ 0.150 χ^2 /NDF: 1800326.1/22

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

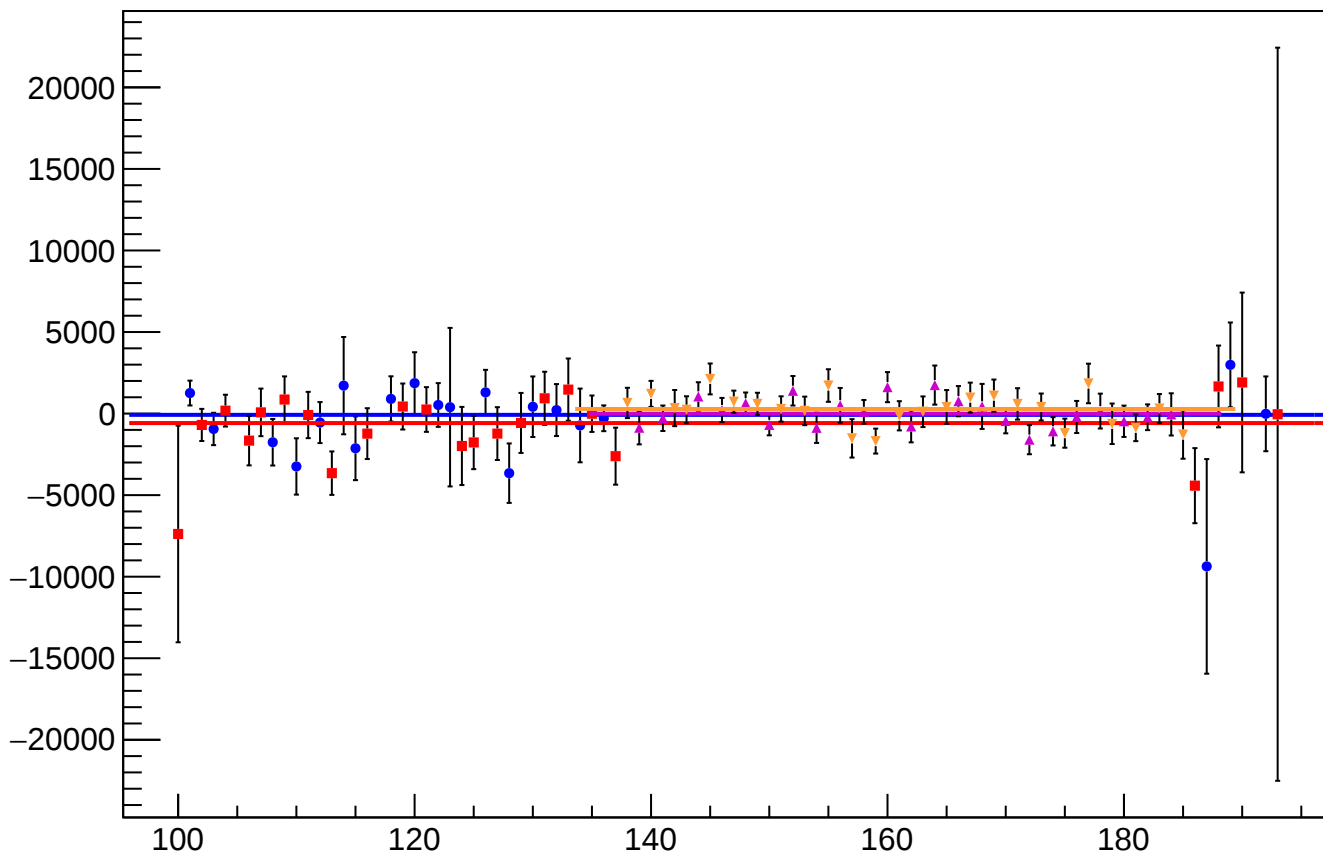
Right: 565.998 $\pm$ 0.108 χ^2 /NDF: 3157031.1/42

In: 559.160 $\pm$ 0.080 χ^2 /NDF:1369845.4/42

Out: 560.077 $\pm$ 0.078 χ^2 /NDF:1817903.3/47

All: 559.631 $\pm$ 0.056 χ^2 /NDF: 3187815.4/90

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -77.716 ± 322.053 χ^2/NDF : 20.4/19

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

Right Out: -581.155 ± 326.134 χ^2/NDF : 18.4/22

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

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

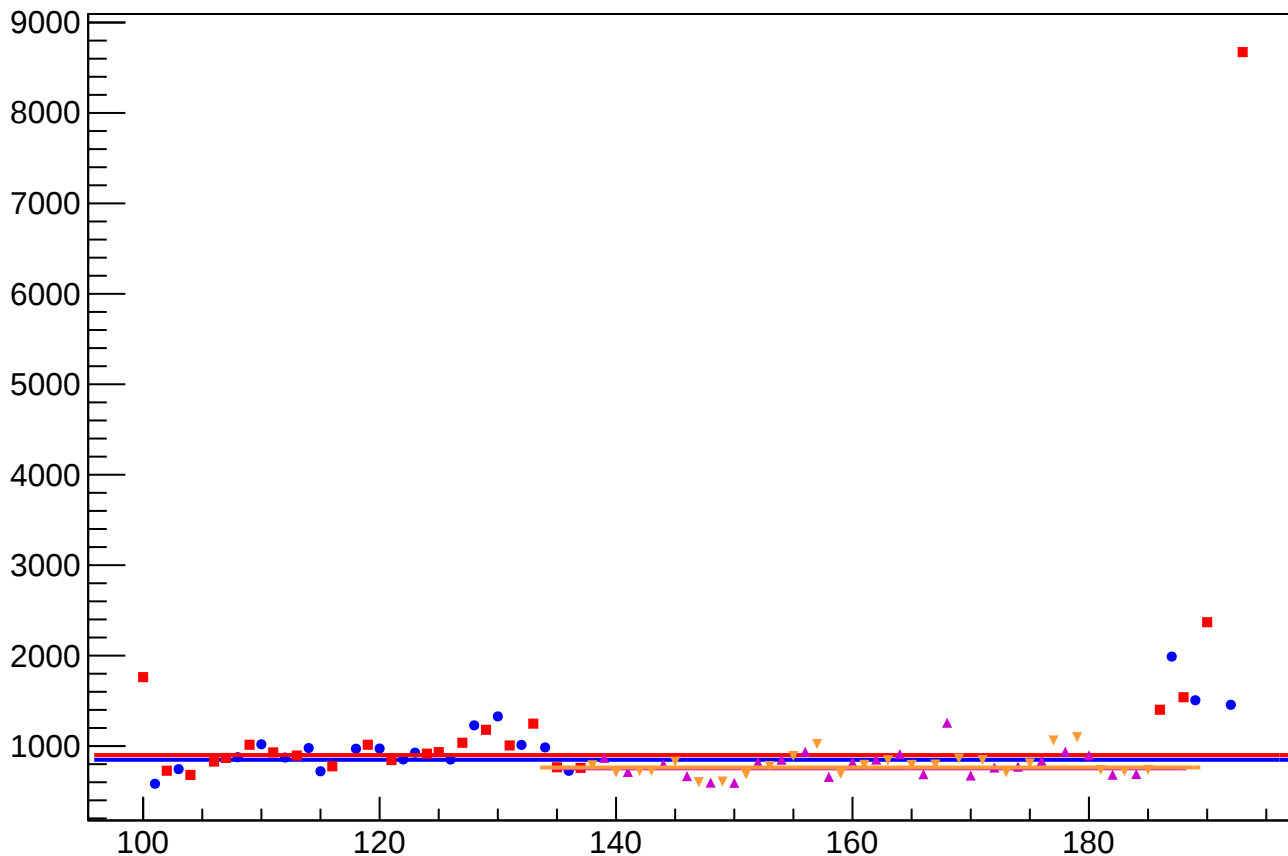
Right: -326.267 ± 229.155 χ^2/NDF : 40.0/42

In: -25.229 ± 159.358 χ^2/NDF : 40.6/42

Out: 79.638 ± 157.875 χ^2/NDF : 50.4/47

All: 27.695 ± 112.155 χ^2/NDF : 91.3/90

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 848.472 $\pm$ 0.228 χ^2 /NDF: 948132.3/19

Left Out: 763.085 $\pm$ 0.128 χ^2 /NDF: 753700.1/24

Right Out: 900.474 $\pm$ 0.231 χ^2 /NDF: 1031854.3/22

Left In: 754.099 $\pm$ 0.130 χ^2 /NDF: 931829.3/22

Left: 758.665 $\pm$ 0.091 χ^2 /NDF: 1687969.6/47

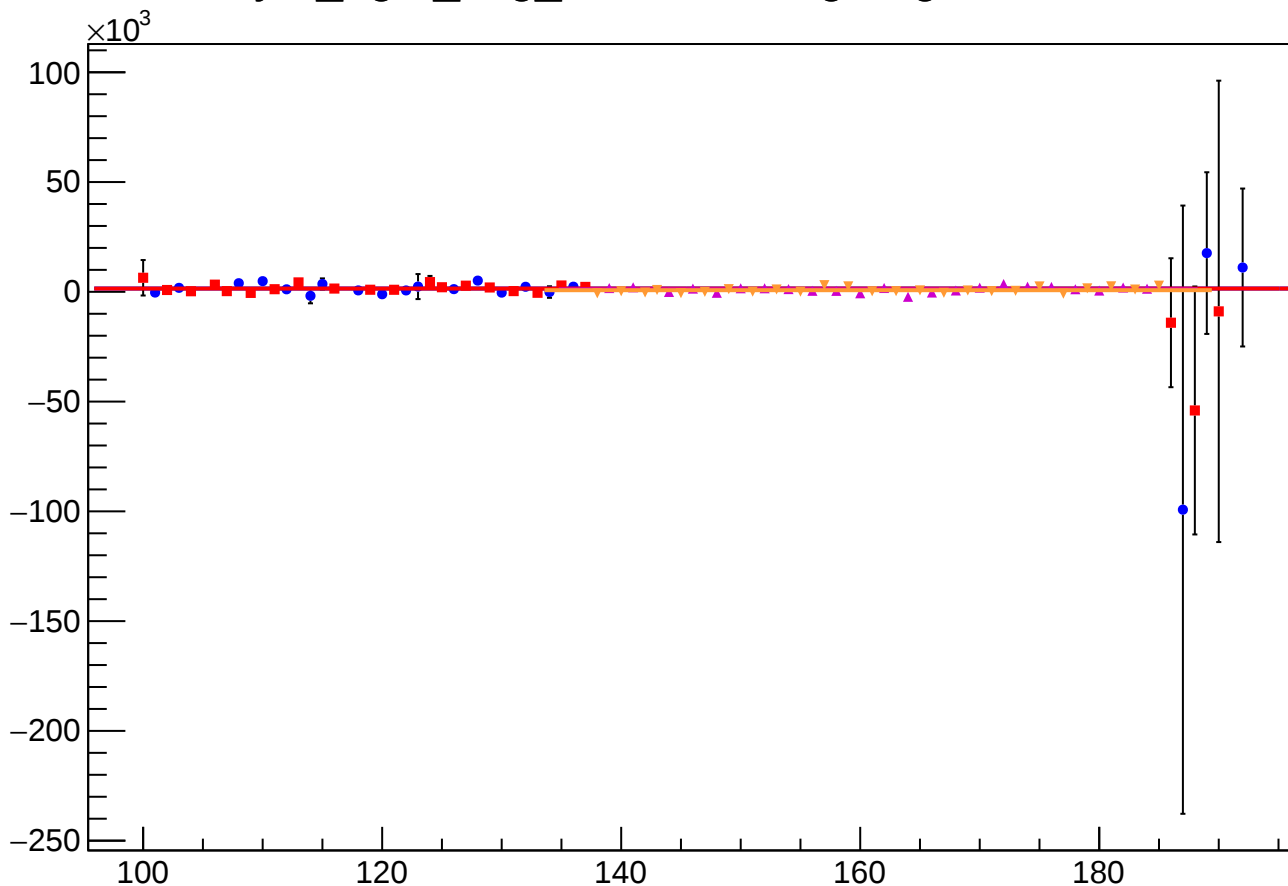
Right: 874.146 $\pm$ 0.162 χ^2 /NDF: 2005731.3/42

In: 777.206 $\pm$ 0.113 χ^2 /NDF: 2009651.8/42

Out: 795.280 $\pm$ 0.112 χ^2 /NDF: 2057315.3/47

All: 786.327 $\pm$ 0.079 χ^2 /NDF: 4079951.2/90

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1500.245+/-402.616 χ^2/NDF : 17.9/19

Left Out: 739.641+/-225.535 χ^2/NDF : 21.5/24

Right Out: 1481.911+/-400.668 χ^2/NDF : 13.3/21

Left In: 1124.587+/-230.065 χ^2/NDF : 25.4/22

Left: 928.287+/-161.055 χ^2/NDF : 48.3/47

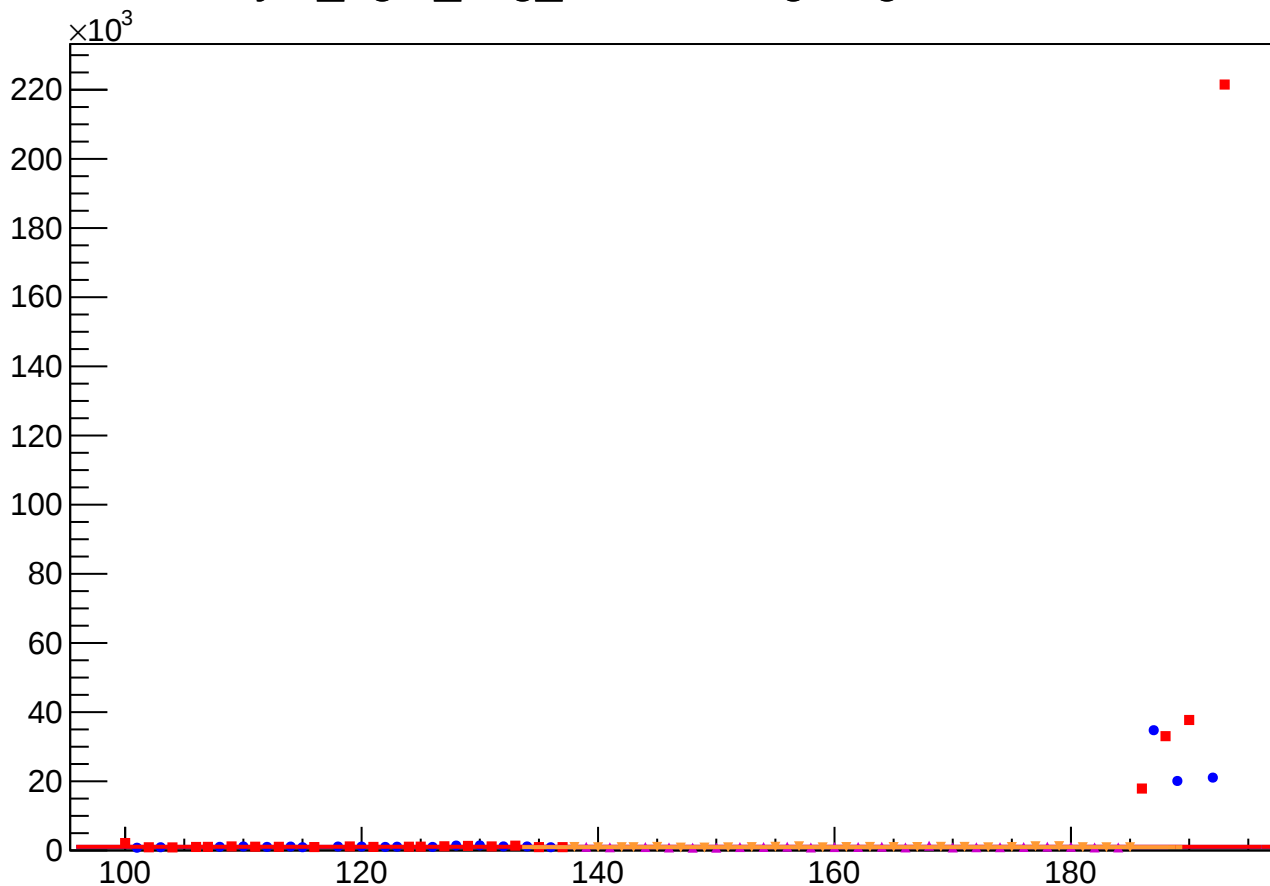
Right: 1491.034+/-284.001 χ^2/NDF : 31.2/41

In: 1217.056+/-199.753 χ^2/NDF : 43.9/42

Out: 918.242+/-196.537 χ^2/NDF : 37.4/46

All: 1065.225+/-140.096 χ^2/NDF : 82.5/89

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1027.118 $\pm$ 0.285 χ^2 /NDF: 1622707.9/19

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

Right Out: 1063.288 $\pm$ 0.283 χ^2 /NDF: 1917506.5/22

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

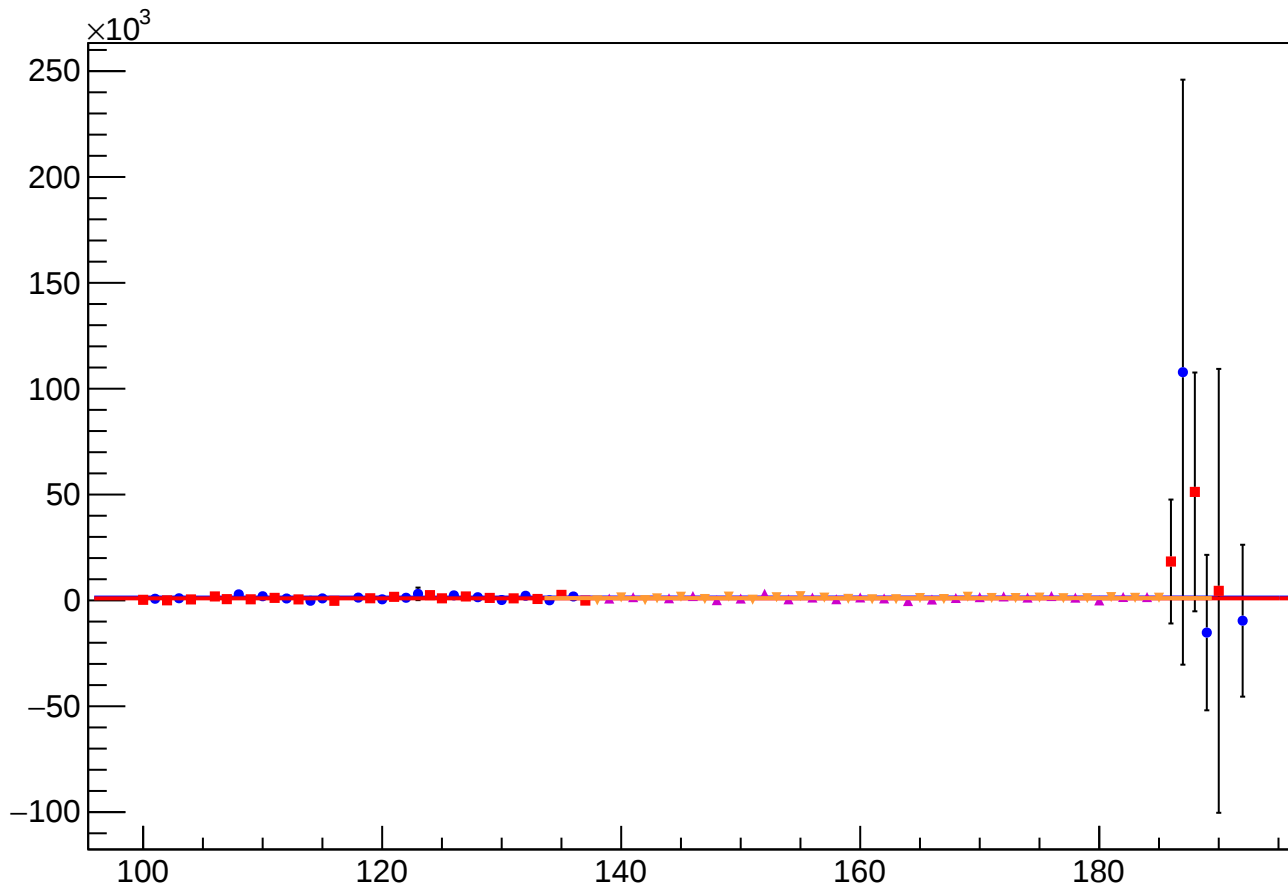
Right: 1045.291 $\pm$ 0.201 χ^2 /NDF: 3548324.2/42

In: 972.483 $\pm$ 0.141 χ^2 /NDF: 2114958.0/42

Out: 986.565 $\pm$ 0.139 χ^2 /NDF: 2377015.4/47

All: 979.639 $\pm$ 0.099 χ^2 /NDF: 4497024.1/90

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.674 $\pm$ 218.846 χ^2 /NDF: 12.9/19

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

Right Out: 967.025 $\pm$ 208.607 χ^2 /NDF: 13.4/21

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

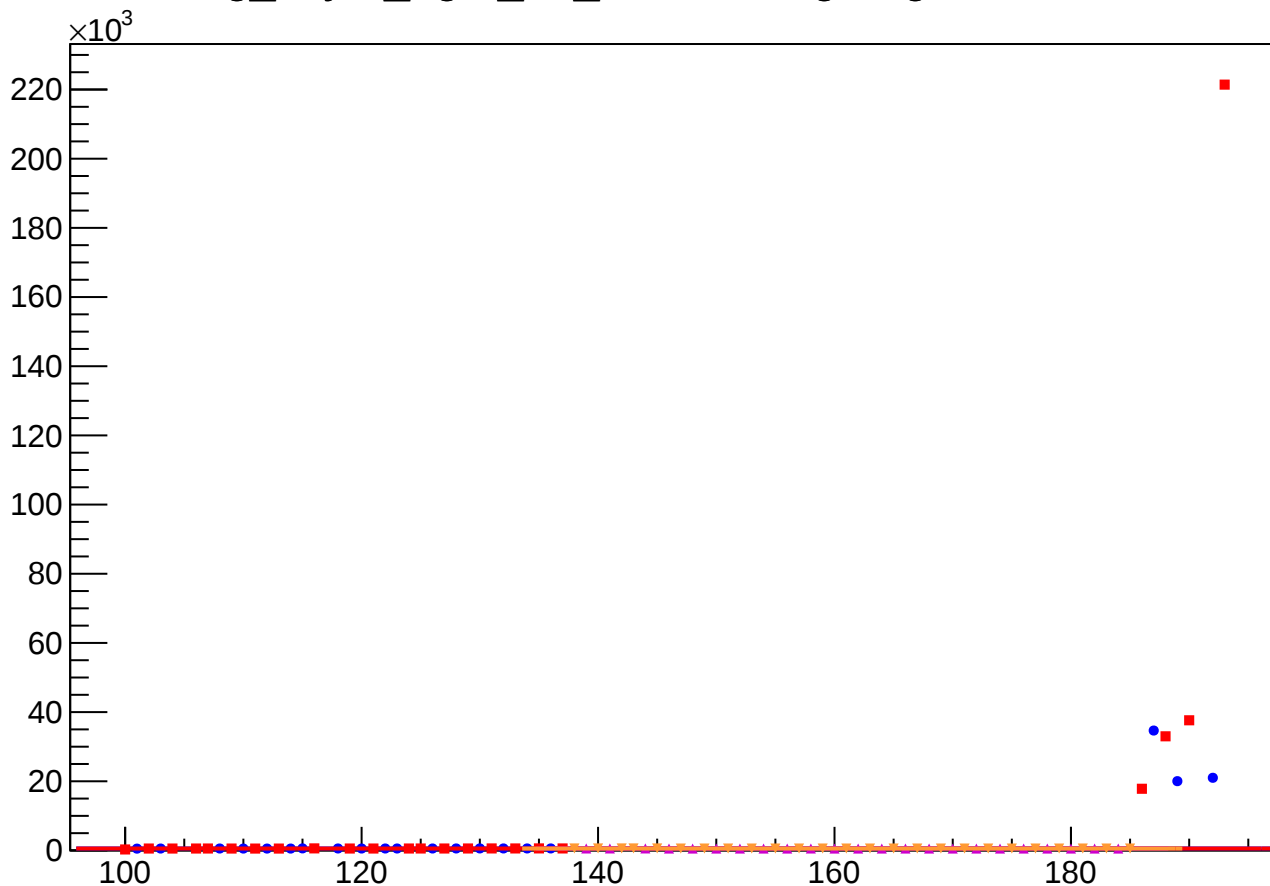
Right: 1146.808 $\pm$ 150.997 χ^2 /NDF: 27.8/41

In: 1231.484 $\pm$ 113.852 χ^2 /NDF:45.4/42

Out: 1053.958 $\pm$ 110.221 χ^2 /NDF:28.6/46

All: 1139.844 $\pm$ 79.191 χ^2 /NDF: 75.2/89

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 565.722 $\pm$ 0.155 χ^2 /NDF: 1356681.2/19

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

Right Out: 555.961 $\pm$ 0.148 χ^2 /NDF: 1885075.7/22

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

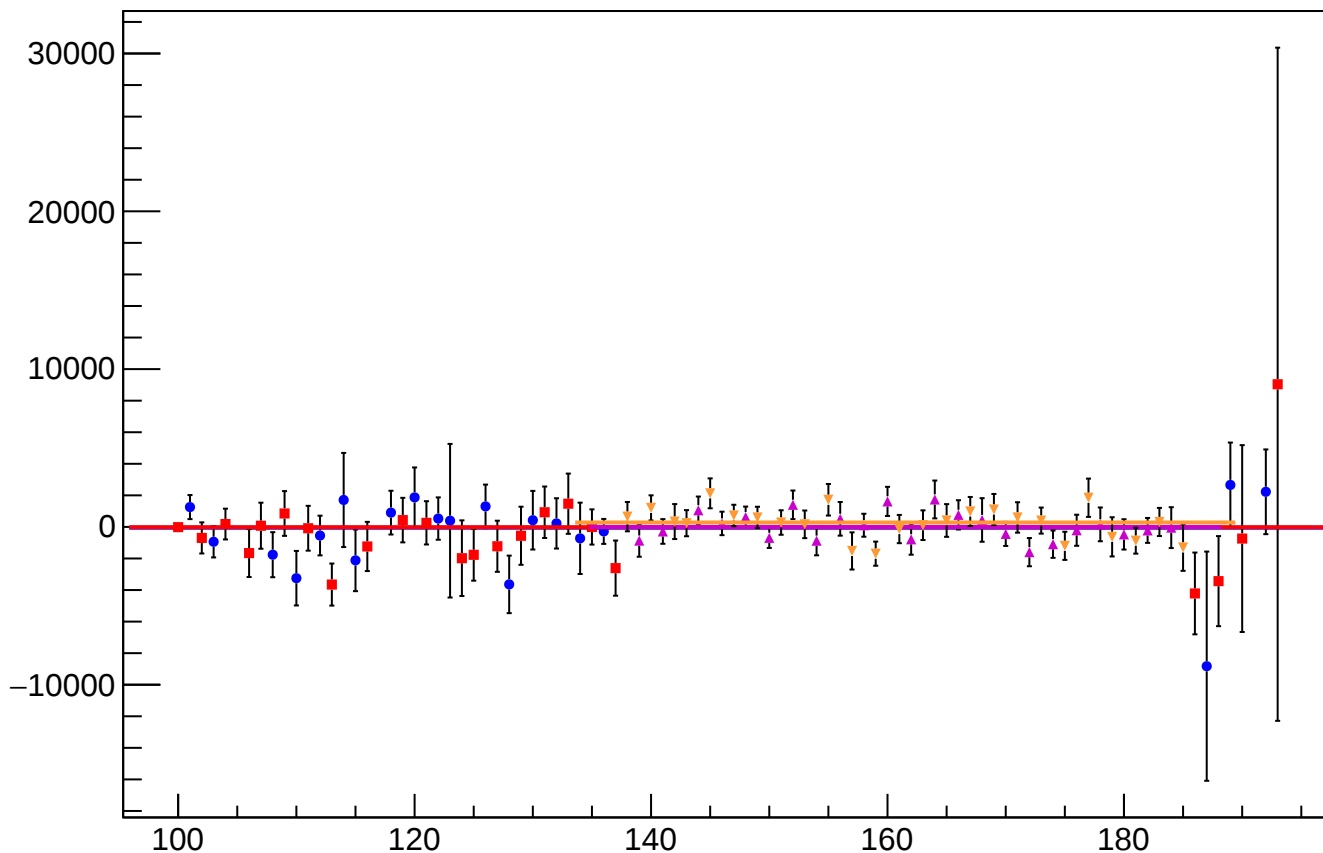
Right: 560.608 $\pm$ 0.107 χ^2 /NDF: 3243841.4/42

In: 559.796 $\pm$ 0.081 χ^2 /NDF: 1369968.7/42

Out: 557.502 $\pm$ 0.078 χ^2 /NDF: 1900012.4/47

All: 558.612 $\pm$ 0.056 χ^2 /NDF: 3270400.0/90

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -46.037+/-323.241 χ^2/NDF : 20.2/19

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

Right Out: -21.665+/-38.946 χ^2/NDF : 20.1/22

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

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

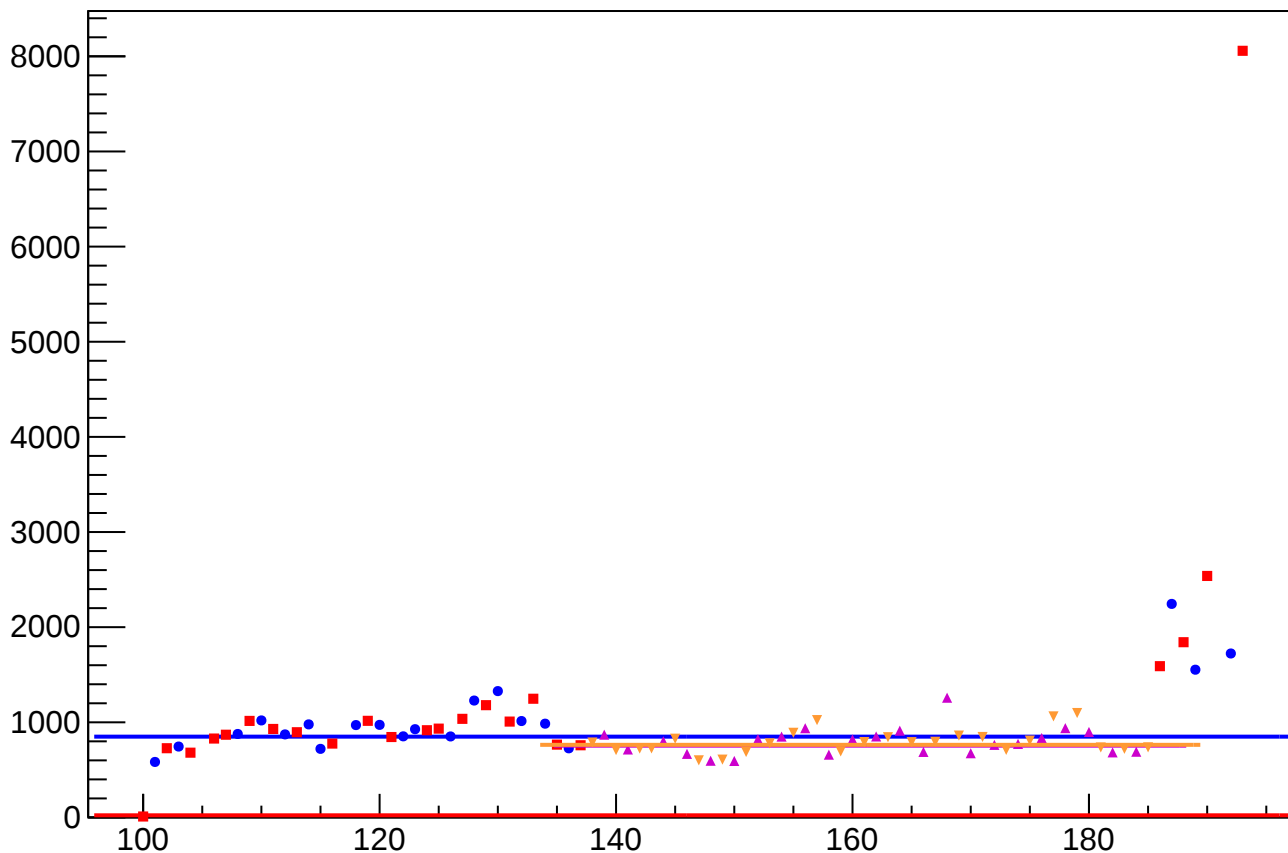
Right: -22.013+/-38.666 χ^2/NDF : 40.4/42

In: -16.744+/-159.561 χ^2/NDF : 40.4/42

Out: -8.180+/-38.070 χ^2/NDF : 49.6/47

All: -8.641+/-37.030 χ^2/NDF : 90.0/90

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 849.365+/-0.229 χ^2/NDF : 1042740.4/19

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

Right Out: 22.600+/-0.028 χ^2/NDF : 15671271.8/22

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

Left: 758.967+/-0.091 χ^2/NDF : 1687616.8/47

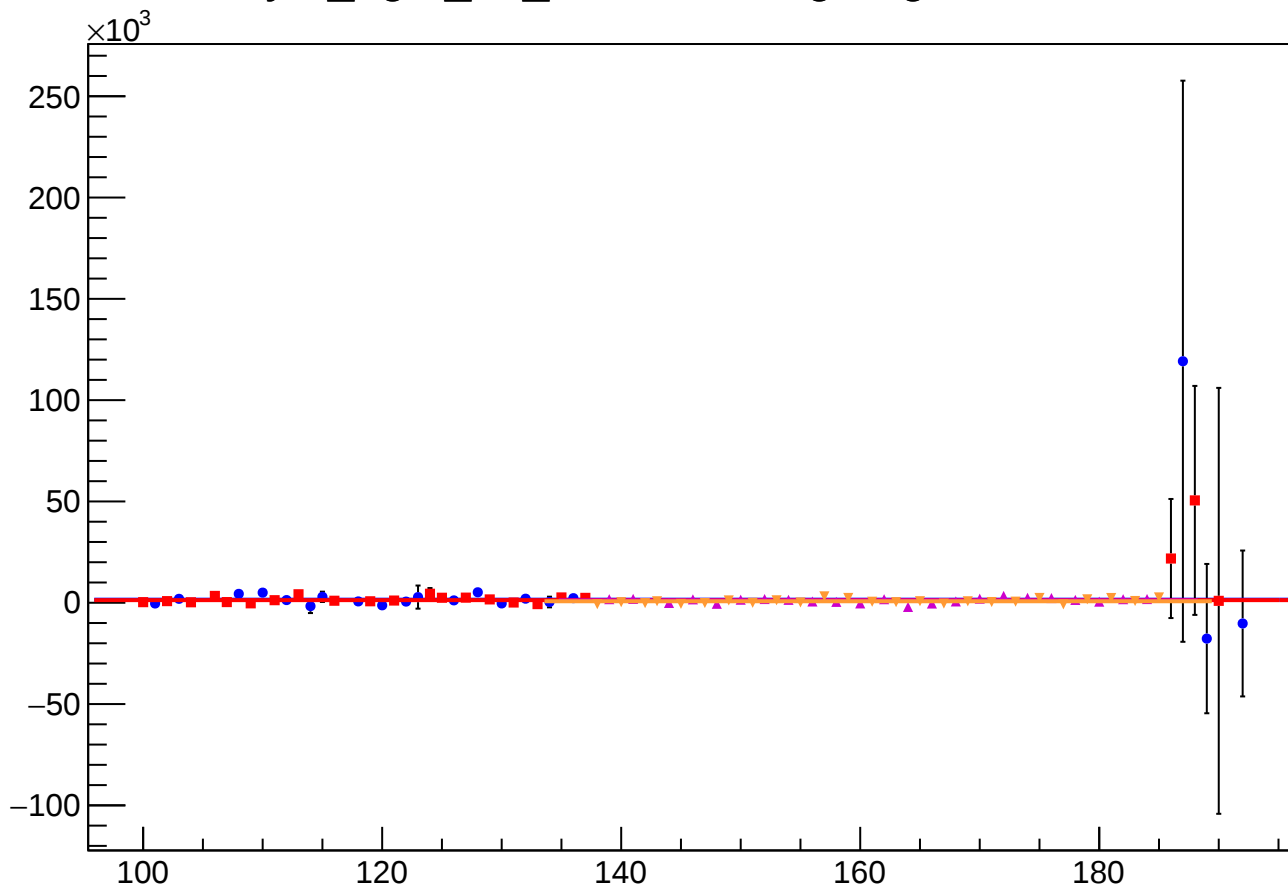
Right: 34.431+/-0.027 χ^2/NDF : 29610774.4/42

In: 777.603+/-0.113 χ^2/NDF : 2104610.2/42

Out: 55.558+/-0.027 χ^2/NDF : 48613892.3/47

All: 94.447+/-0.026 χ^2/NDF : 89467240.3/90

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1516.714 $\pm$ 402.839 χ^2 /NDF: 18.9/19

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

Right Out: 1293.094 $\pm$ 376.637 χ^2 /NDF: 13.6/21

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

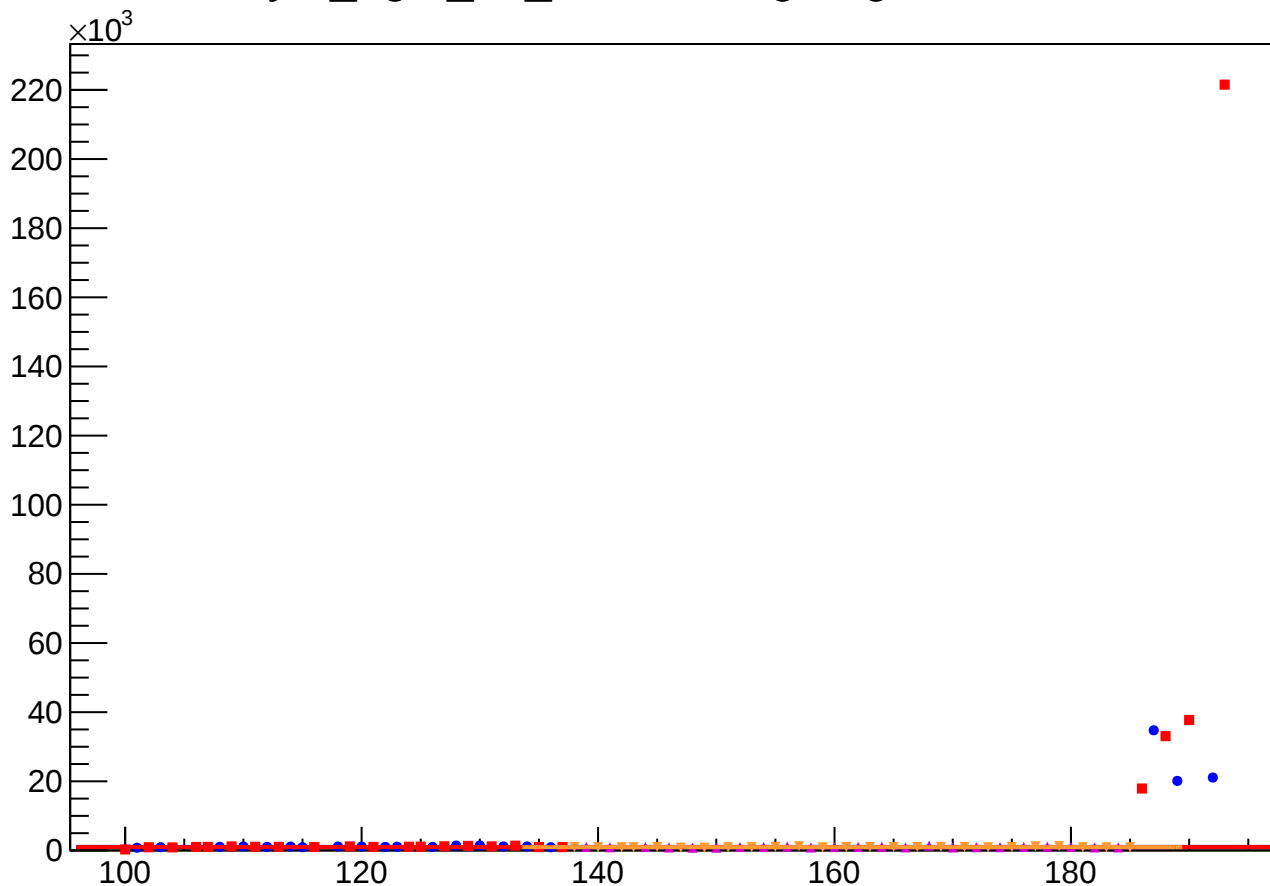
Right: 1397.396 $\pm$ 275.120 χ^2 /NDF: 32.7/41

In: 1260.104 $\pm$ 199.887 χ^2 /NDF: 43.7/42

Out: 888.177 $\pm$ 193.574 χ^2 /NDF: 35.4/46

All: 1068.174 $\pm$ 139.056 χ^2 /NDF: 80.9/89

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1027.692+/-0.285 χ^2/NDF : 1622801.5/19

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

Right Out: 968.928+/-0.266 χ^2/NDF : 2766490.8/22

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

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

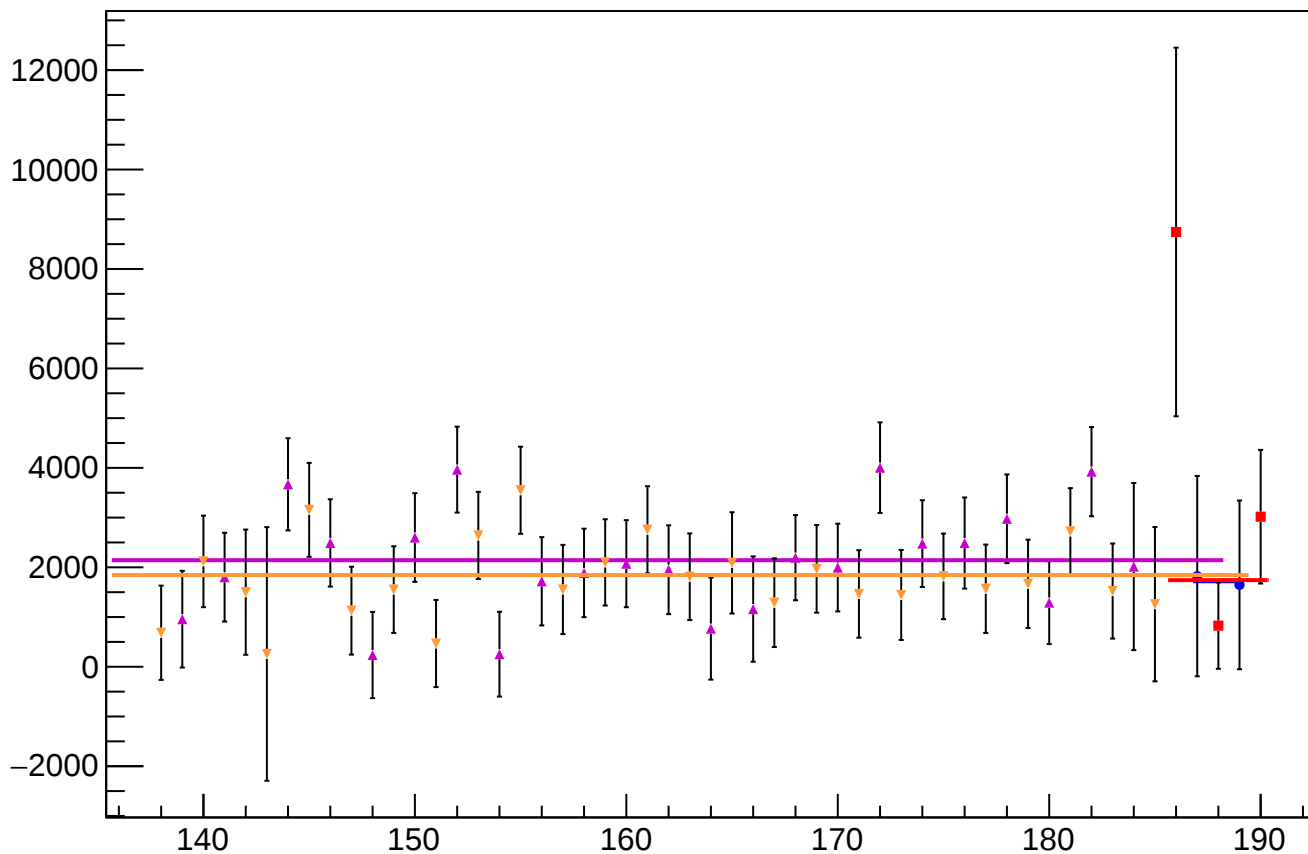
Right: 996.337+/-0.195 χ^2/NDF : 4412001.1/42

In: 973.147+/-0.141 χ^2/NDF : 2114514.5/42

Out: 964.401+/-0.137 χ^2/NDF : 3129721.2/47

All: 968.634+/-0.098 χ^2/NDF : 5246211.4/90

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

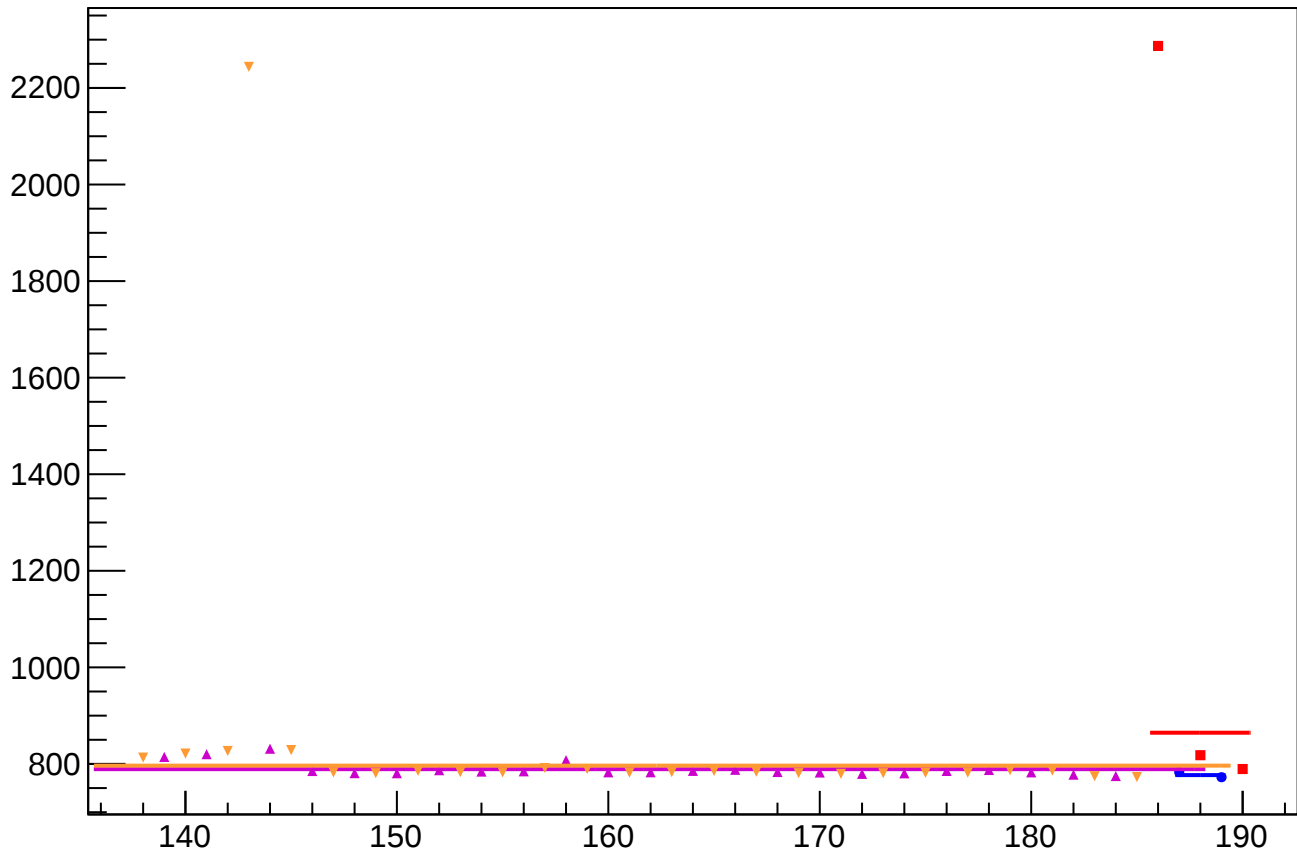
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

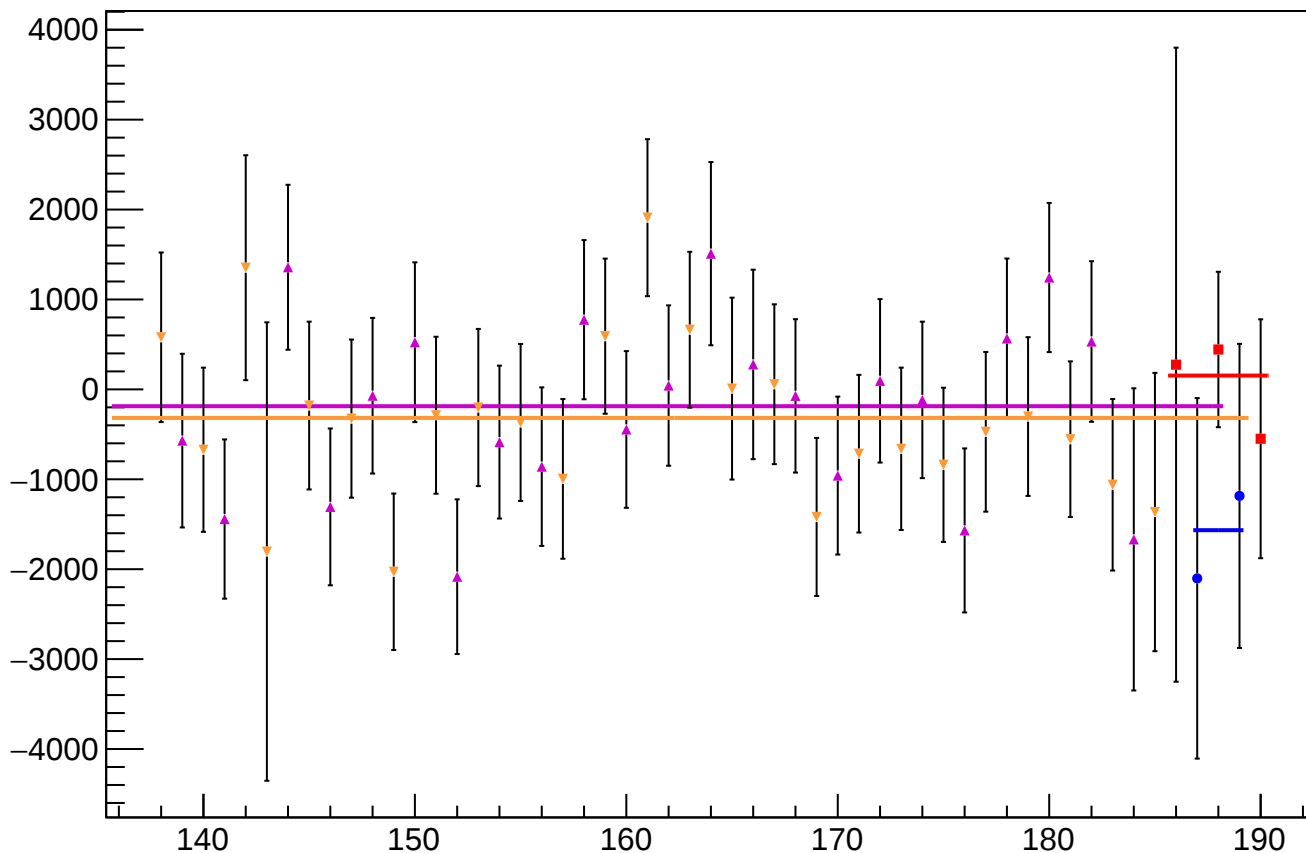
Right: 844.207 $\pm$ 0.443 χ^2/NDF : 313539.0/4

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

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

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

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

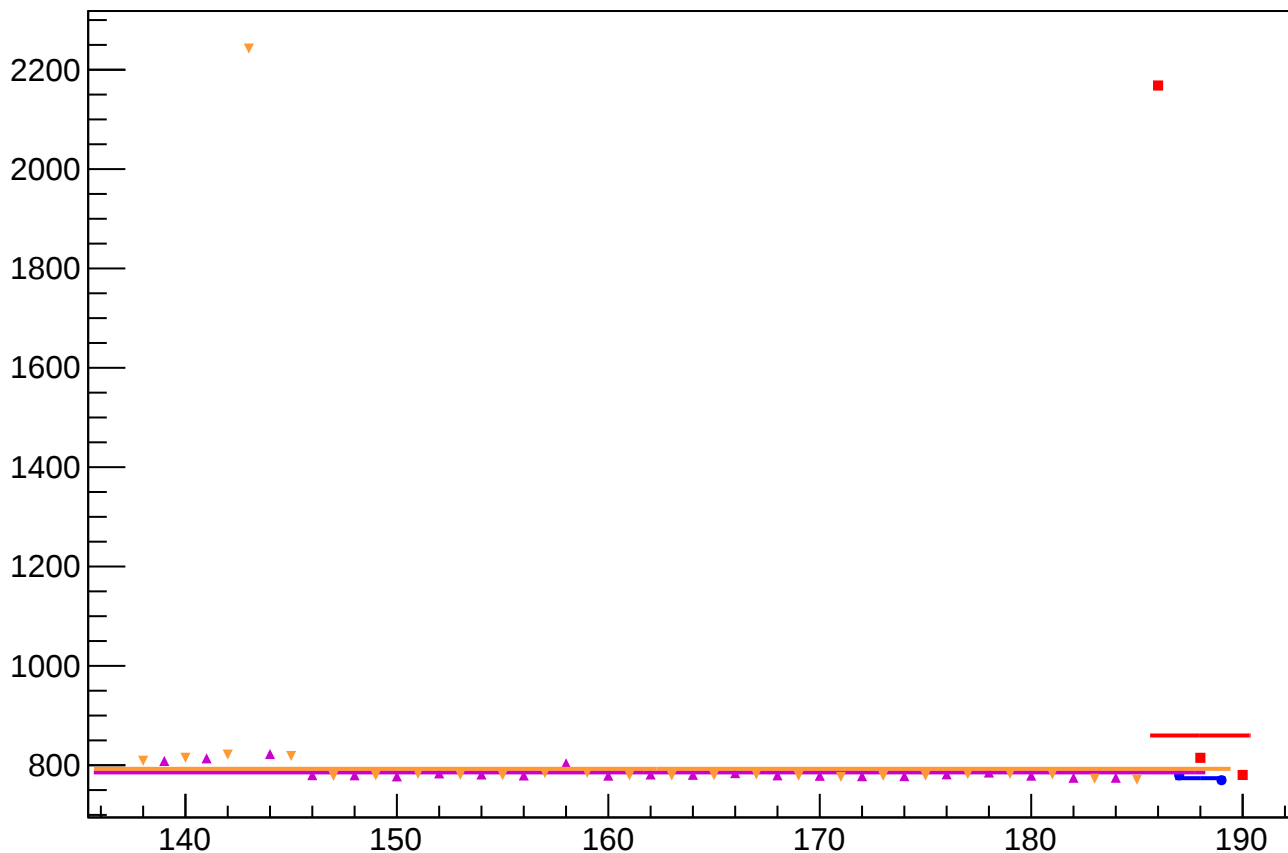
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

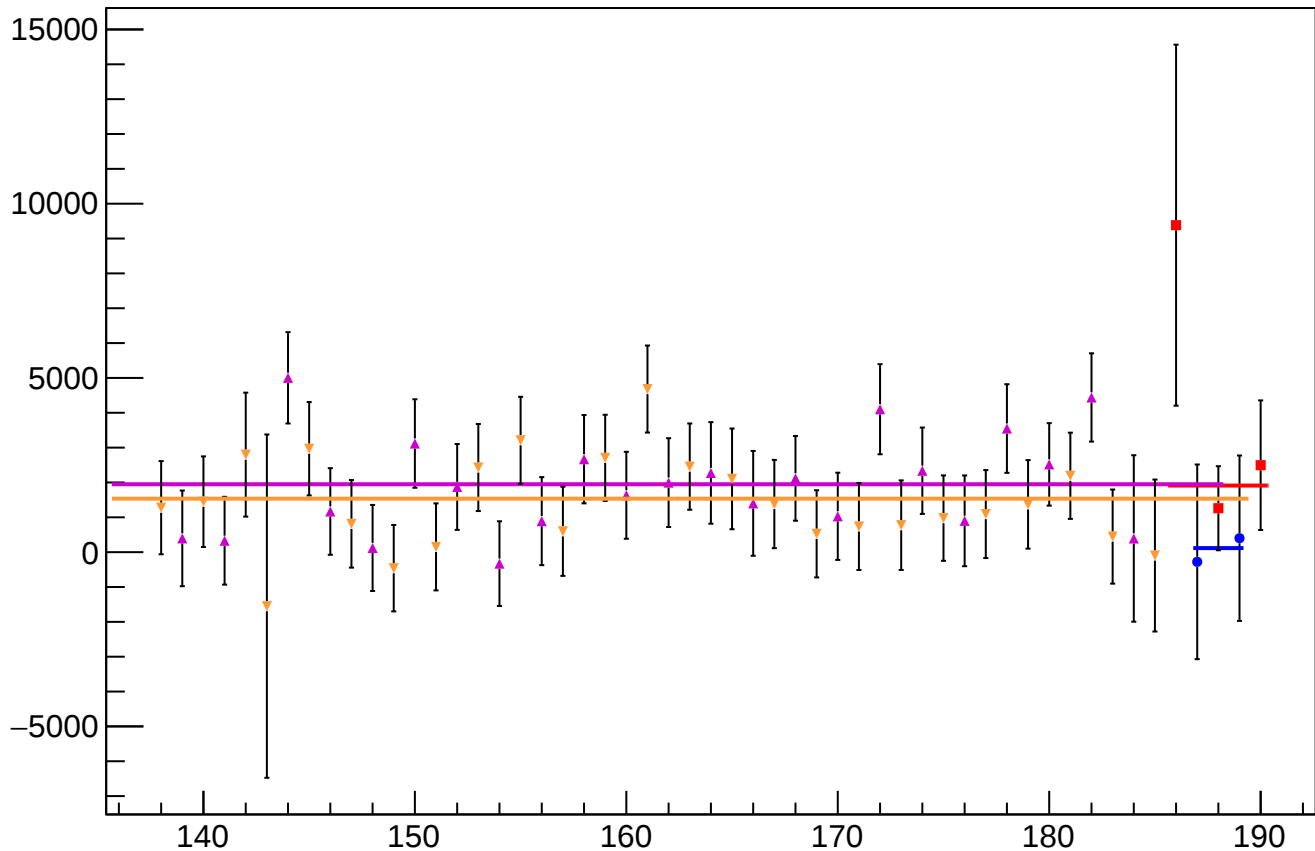
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

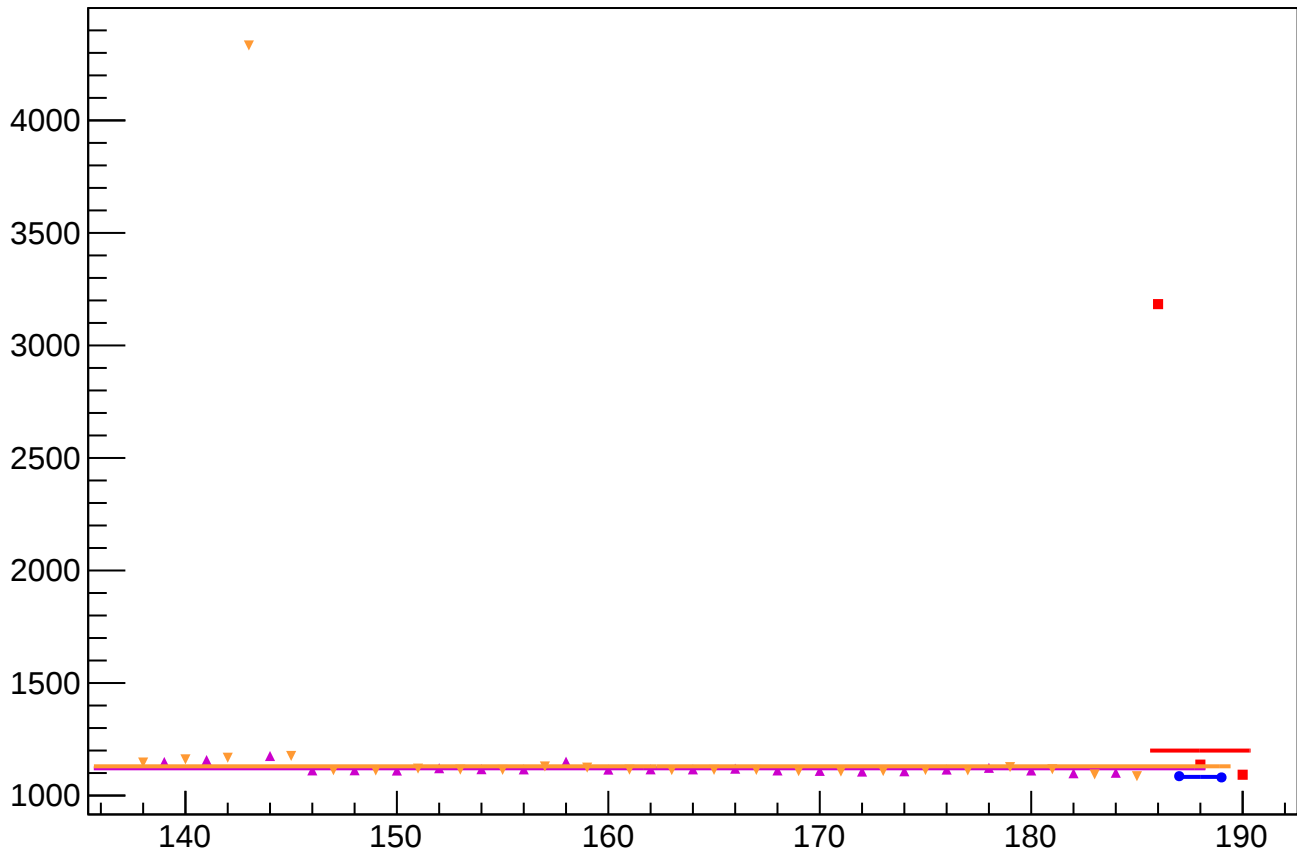
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



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

Left Out: 1129.937 ± 0.188 χ^2/NDF : 858269.9/24

Right Out: 1199.844 ± 0.702 χ^2/NDF : 305356.1/2

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

Left: 1125.527 ± 0.134 χ^2/NDF : 868647.2/47

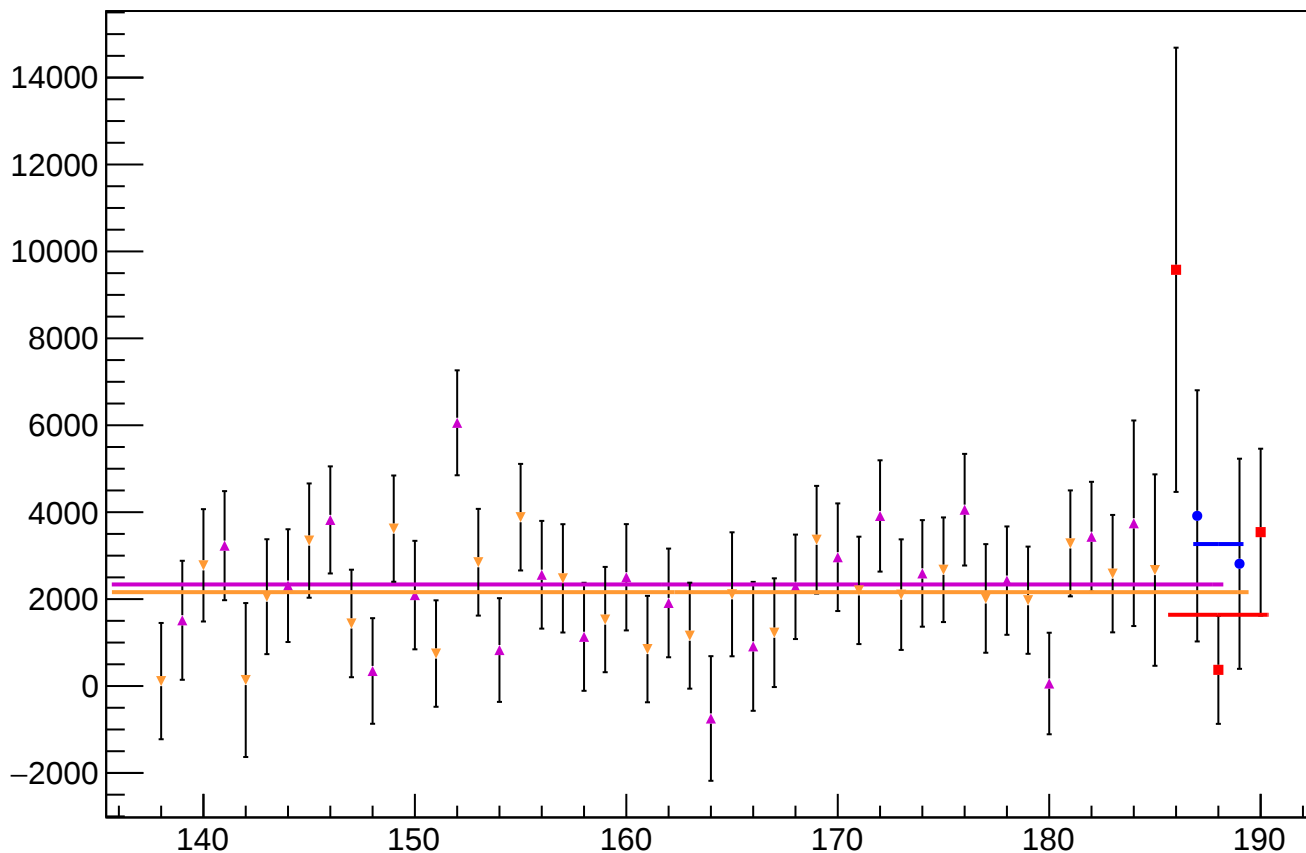
Right: 1172.741 ± 0.616 χ^2/NDF : 311788.3/4

In: 1120.146 ± 0.189 χ^2/NDF : 10132.9/24

Out: 1134.612 ± 0.182 χ^2/NDF : 1172871.0/27

All: 1127.662 ± 0.131 χ^2/NDF : 1186051.5/52

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

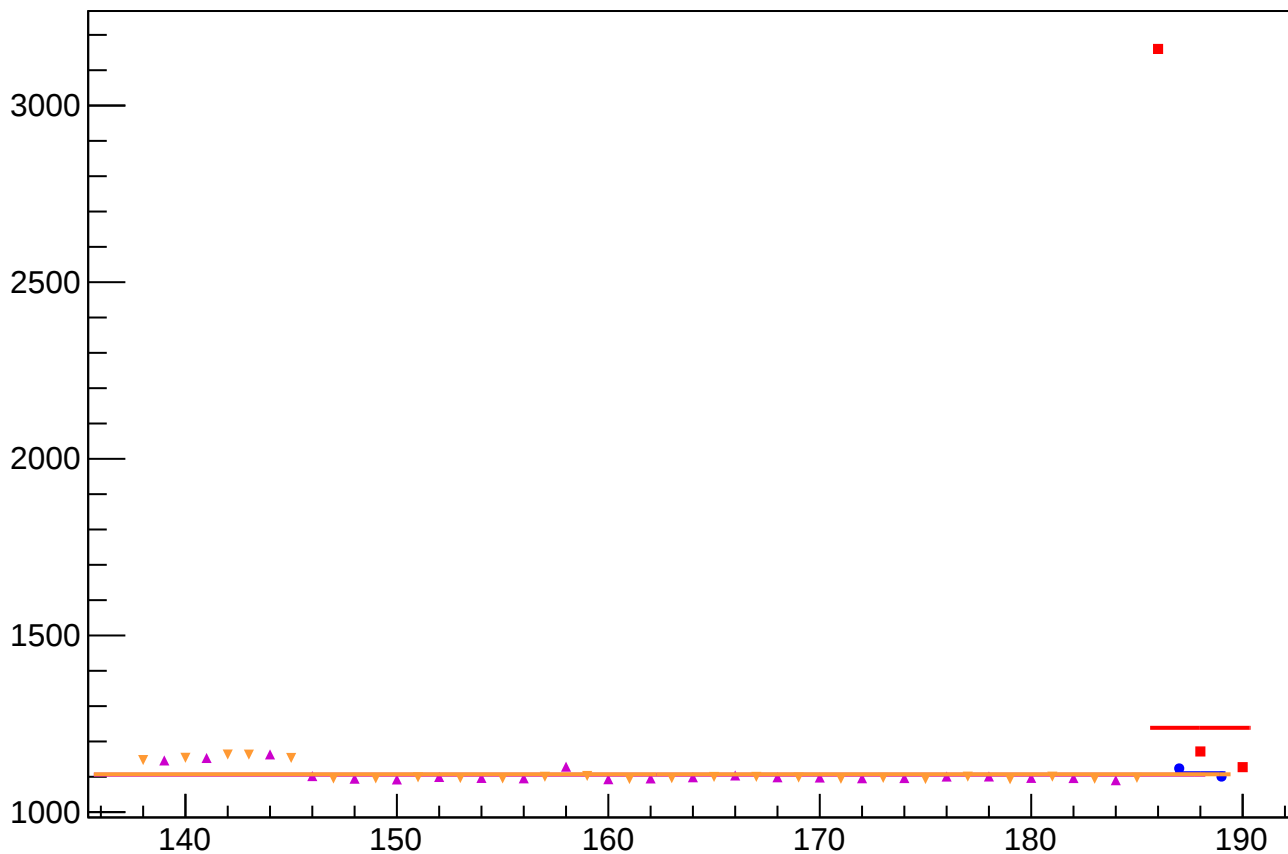
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

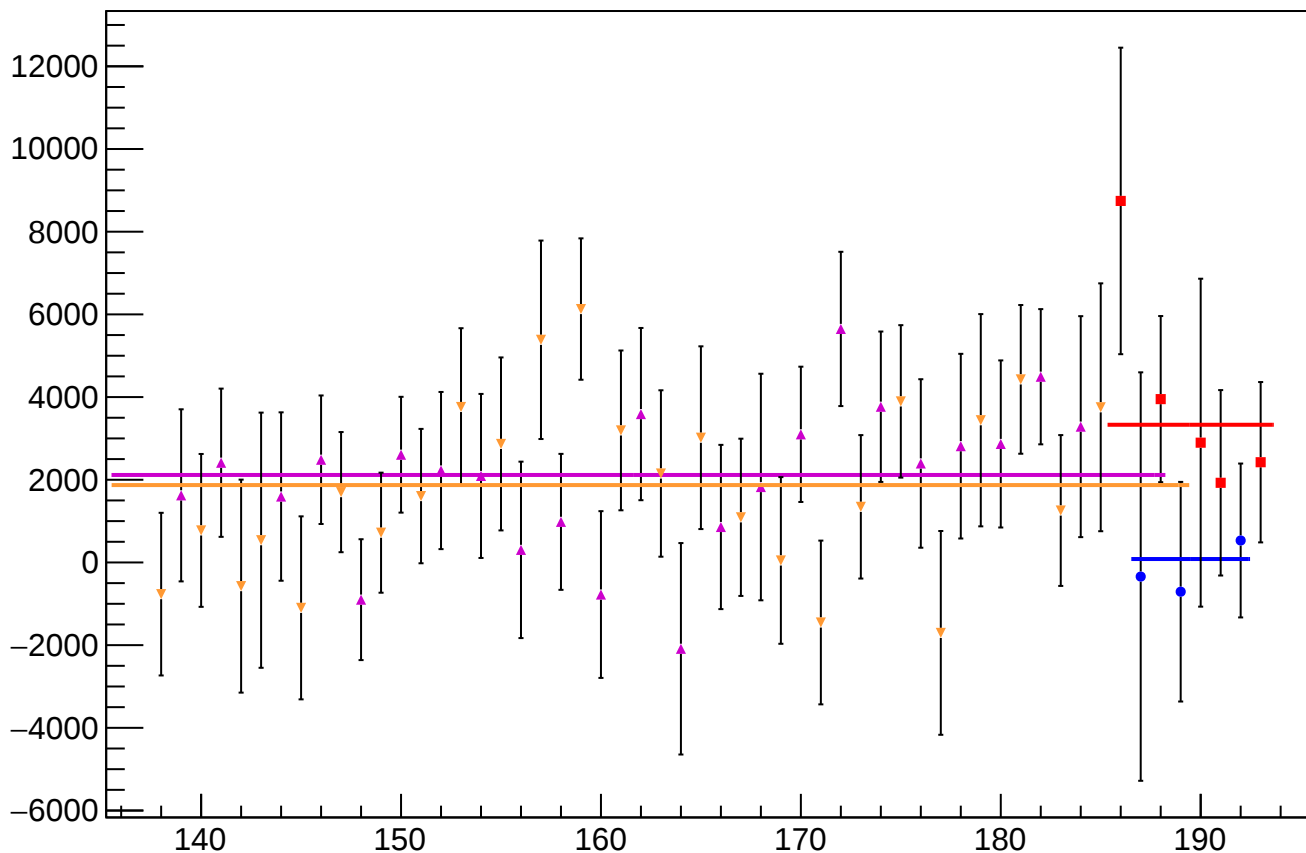
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 82.947+/-1456.338 χ^2/NDF : 0.2/2

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

Right Out: 3330.318+/-1085.361 χ^2/NDF : 2.9/4

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

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

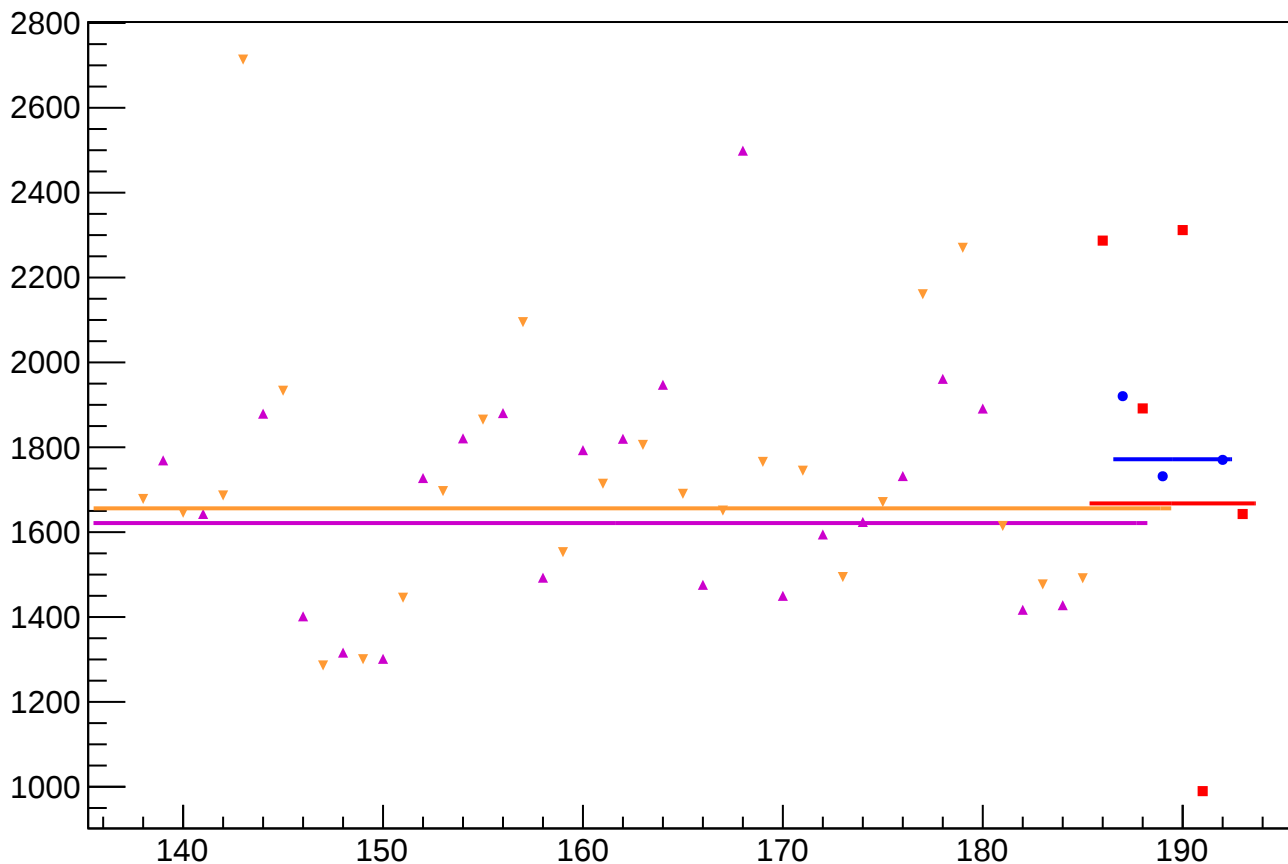
Right: 2170.721+/-870.262 χ^2/NDF : 6.2/7

In: 1978.108+/-379.424 χ^2/NDF : 20.8/25

Out: 2039.717+/-368.427 χ^2/NDF : 30.6/29

All: 2009.818+/-264.320 χ^2/NDF : 51.3/55

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1771.774 $\pm$ 1.030 χ^2/NDF : 2268.9/2

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

Right Out: 1667.722 $\pm$ 0.767 χ^2/NDF : 316565.8/4

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

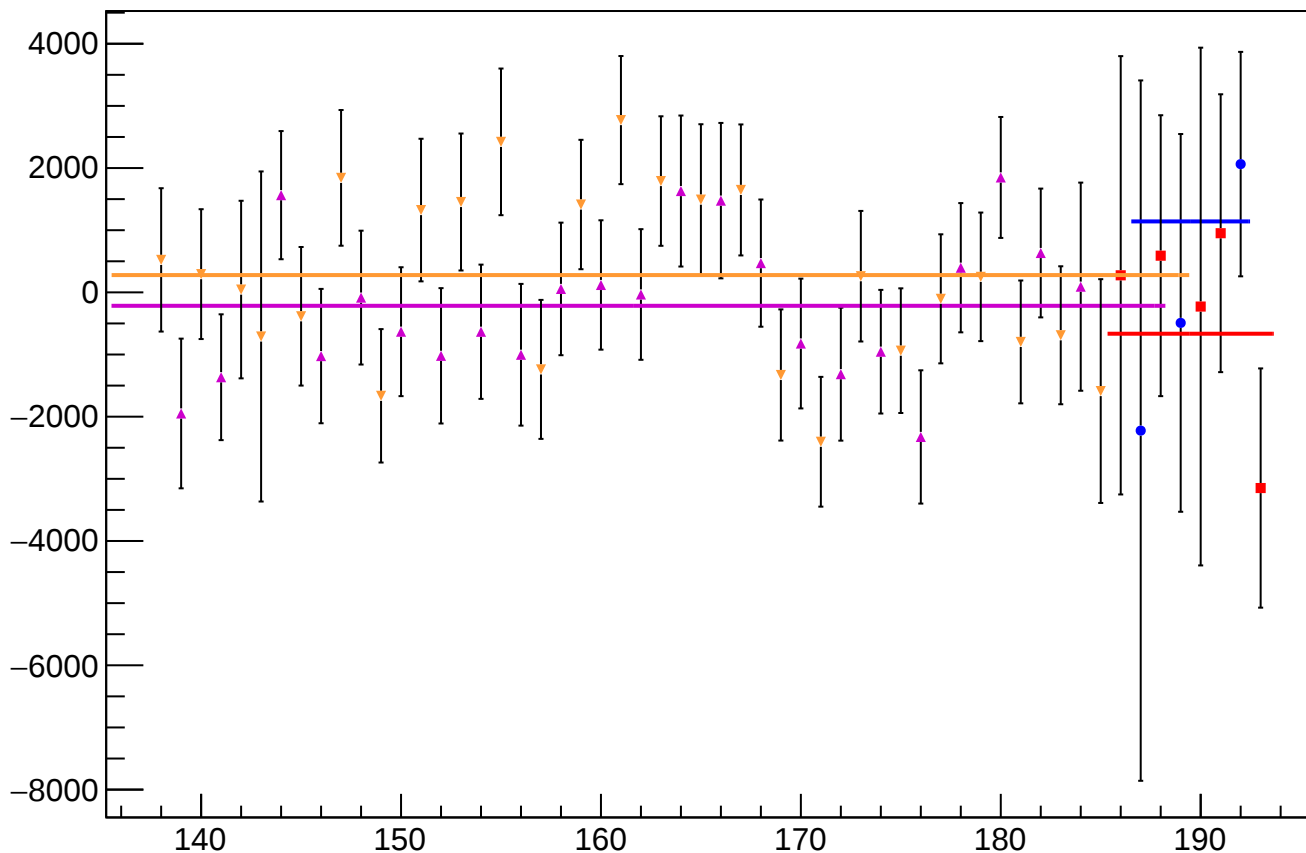
Right: 1704.878 $\pm$ 0.615 χ^2/NDF : 325398.6/7

In: 1631.623 $\pm$ 0.268 χ^2/NDF : 797450.3/25

Out: 1657.456 $\pm$ 0.261 χ^2/NDF : 1227341.5/29

All: 1644.919 $\pm$ 0.187 χ^2/NDF : 2029563.8/55

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1141.469+/-1496.468 χ^2/NDF : 0.9/2

Left Out: 278.090+/-223.581 χ^2/NDF :38.4/24

Right Out: -665.395+/-1115.215 χ^2/NDF : 2.6/4

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

Left: 33.207+/-158.805 χ^2/NDF : 65.2/47

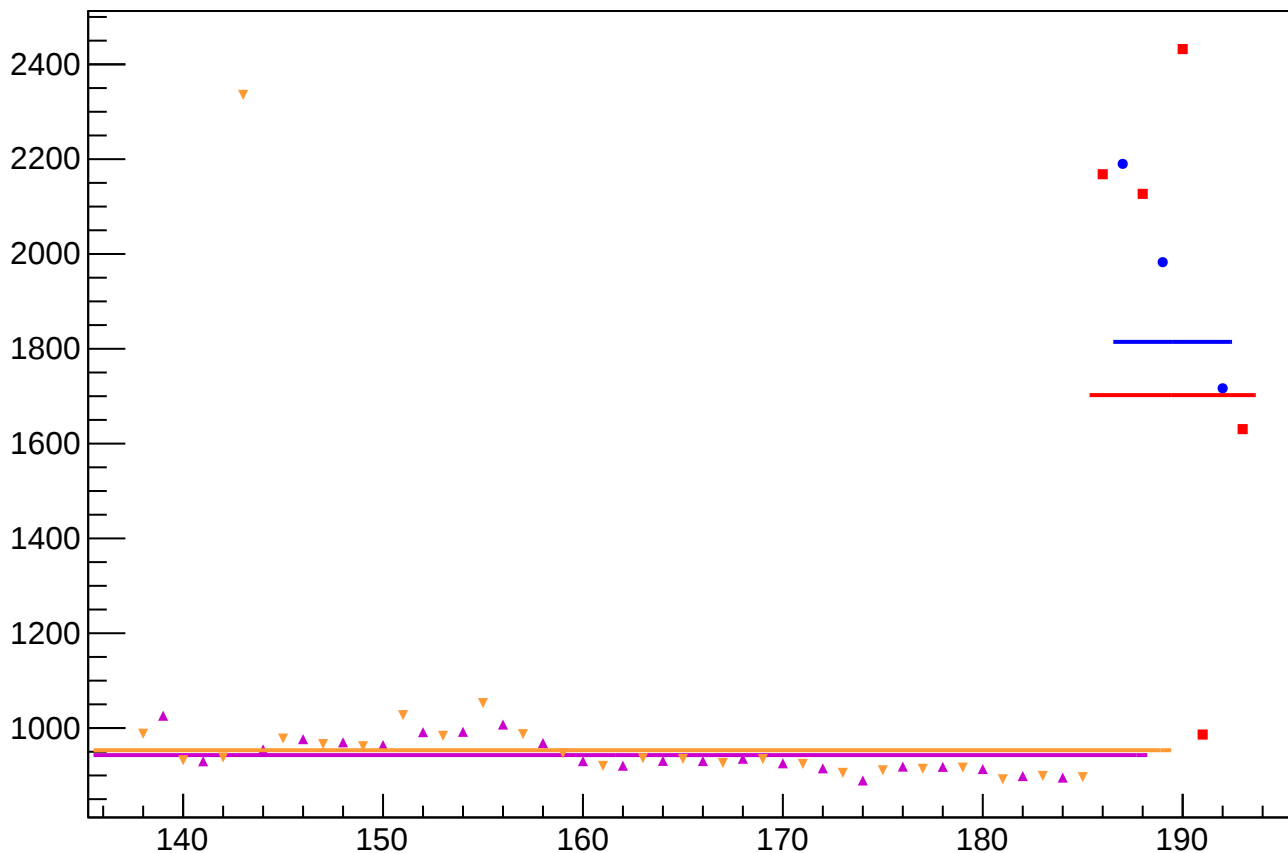
Right: -20.225+/-894.214 χ^2/NDF : 4.4/7

In: -185.952+/-223.080 χ^2/NDF :26.1/25

Out: 241.634+/-219.219 χ^2/NDF :41.7/29

All: 31.573+/-156.358 χ^2/NDF : 69.7/55

asym_us_agg_dd_rms vs Slug, Sign Corrected



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

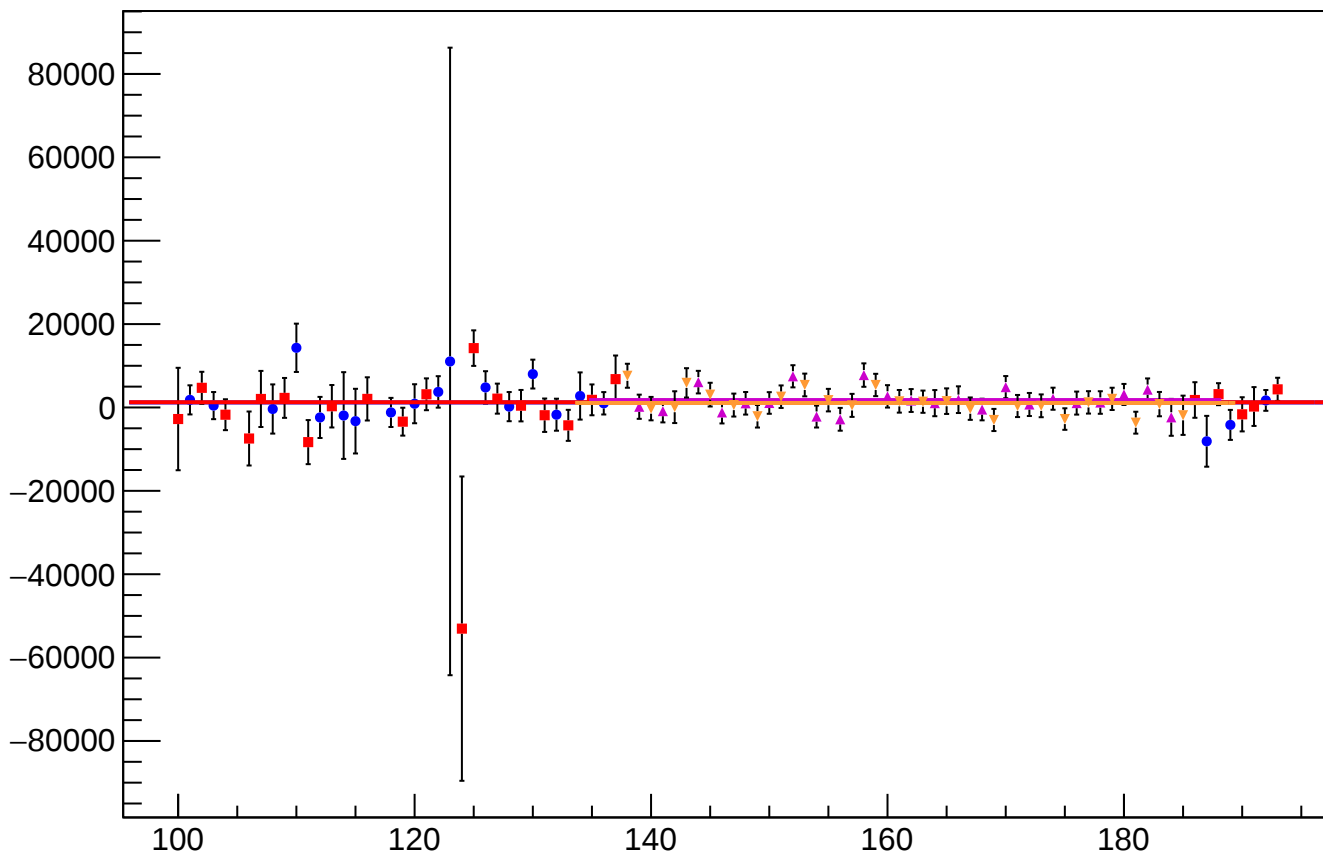
Right: 1742.416 $\pm$ 0.632 χ^2/NDF : 403076.1/7

In: 962.297 $\pm$ 0.158 χ^2/NDF : 732812.9/25

Out: 982.166 $\pm$ 0.155 χ^2/NDF : 1848739.5/29

All: 972.405 $\pm$ 0.111 χ^2/NDF : 2589624.0/55

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1201.500+/-900.113 χ^2/NDF : 17.3/19

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

Right Out: 1254.383+/-850.599 χ^2/NDF : 26.7/23

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

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

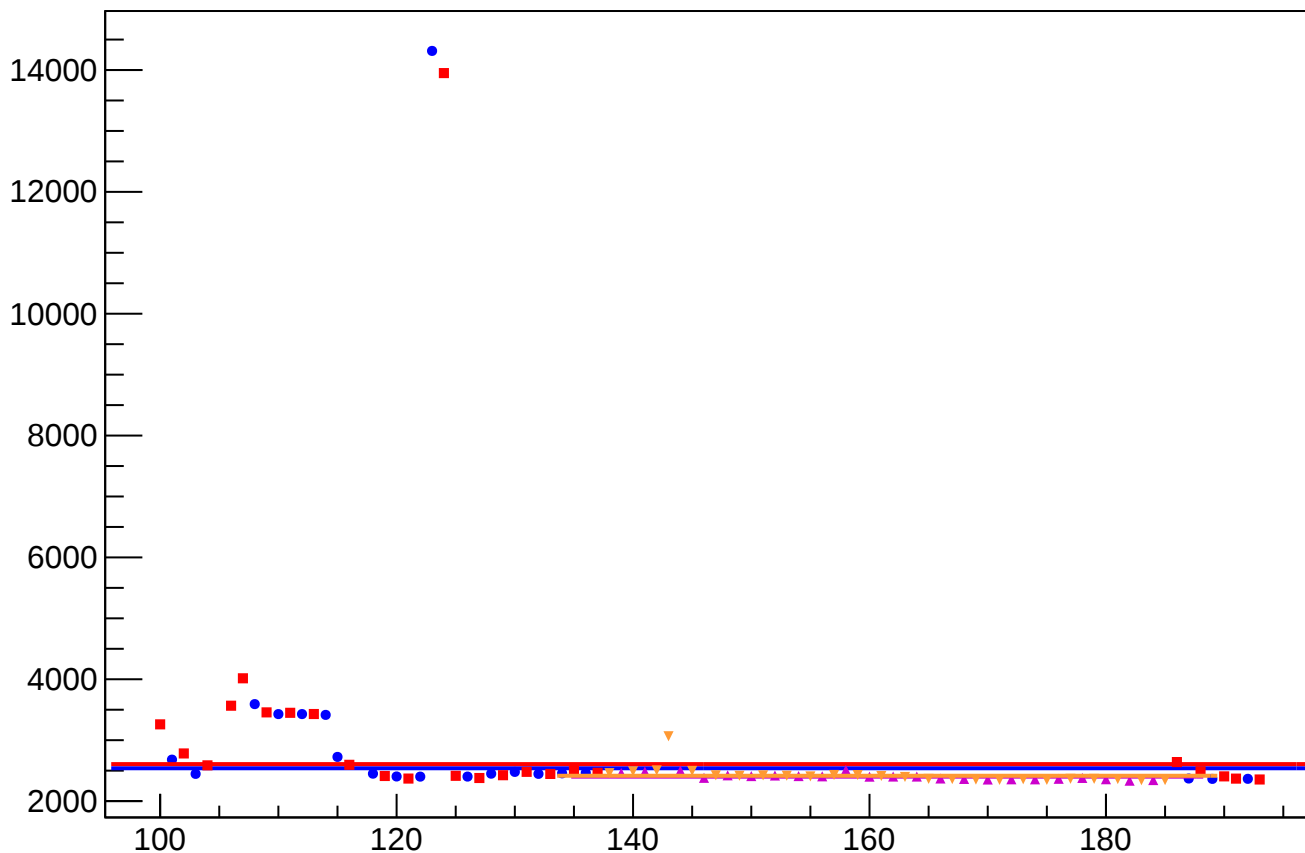
Right: 1229.436+/-618.228 χ^2/NDF : 44.0/43

In: 1609.916+/-485.103 χ^2/NDF : 41.6/42

Out: 1131.904+/-470.060 χ^2/NDF : 50.3/48

All: 1363.383+/-337.575 χ^2/NDF : 92.4/91

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2539.053 $\pm$ 0.636 χ^2 /NDF: 274067.5/19

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

Right Out: 2607.347 $\pm$ 0.601 χ^2 /NDF: 570346.2/23

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

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

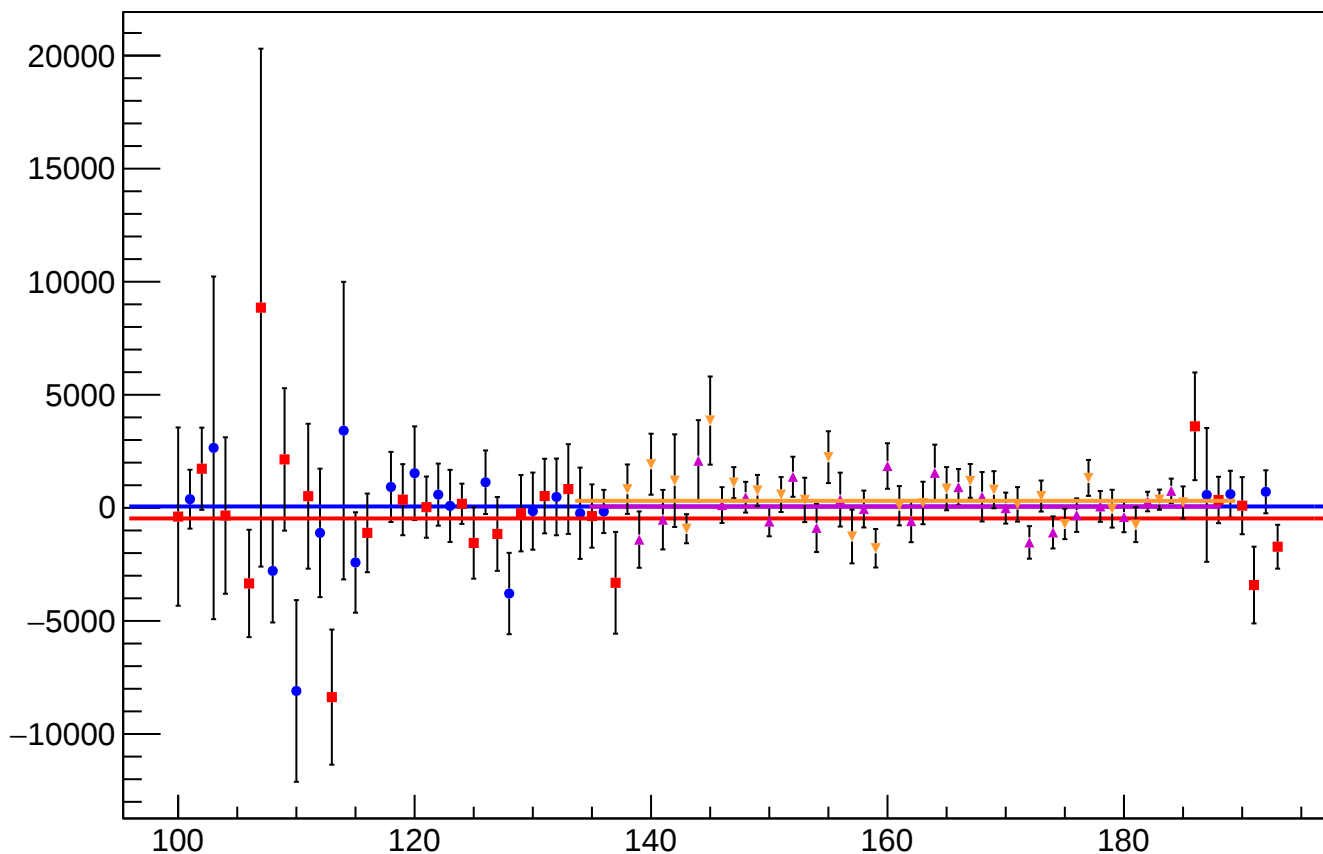
Right: 2575.130 $\pm$ 0.437 χ^2 /NDF: 850495.7/43

In: 2441.397 $\pm$ 0.343 χ^2 /NDF: 320993.1/42

Out: 2474.449 $\pm$ 0.332 χ^2 /NDF: 723269.1/48

All: 2458.443 $\pm$ 0.239 χ^2 /NDF: 1049050.6/91

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 61.627 $\pm$ 358.344 χ^2 /NDF: 14.6/19

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

Right Out: -467.552 $\pm$ 331.258 χ^2 /NDF: 24.0/23

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

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

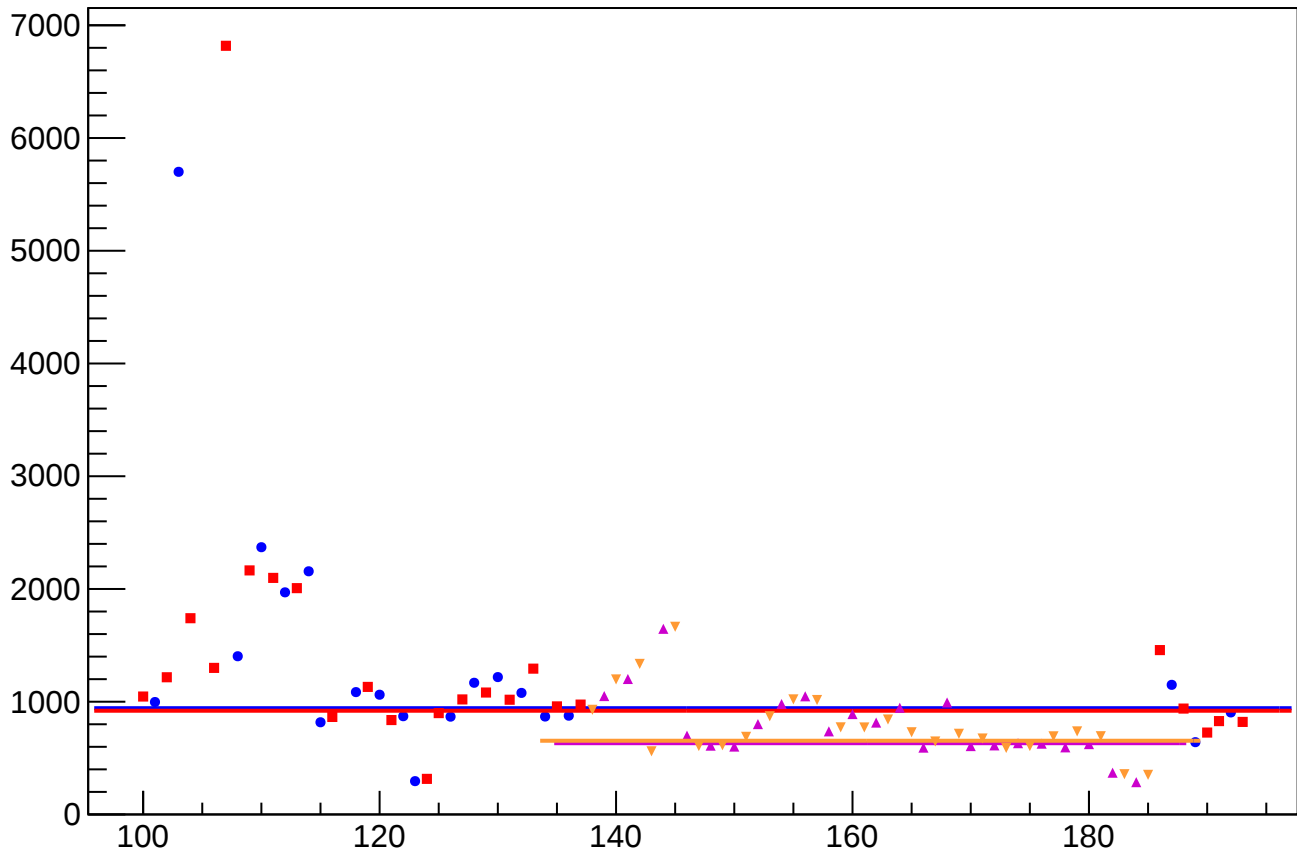
Right: -223.715 $\pm$ 243.247 χ^2 /NDF: 39.7/43

In: 53.176 $\pm$ 147.423 χ^2 /NDF:38.4/42

Out: 162.652 $\pm$ 144.548 χ^2 /NDF:58.2/48

All: 108.991 $\pm$ 103.212 χ^2 /NDF: 96.9/91

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 942.530+/-0.253 χ^2/NDF : 2118247.5/19

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

Right Out: 920.033+/-0.234 χ^2/NDF : 2850186.7/23

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

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

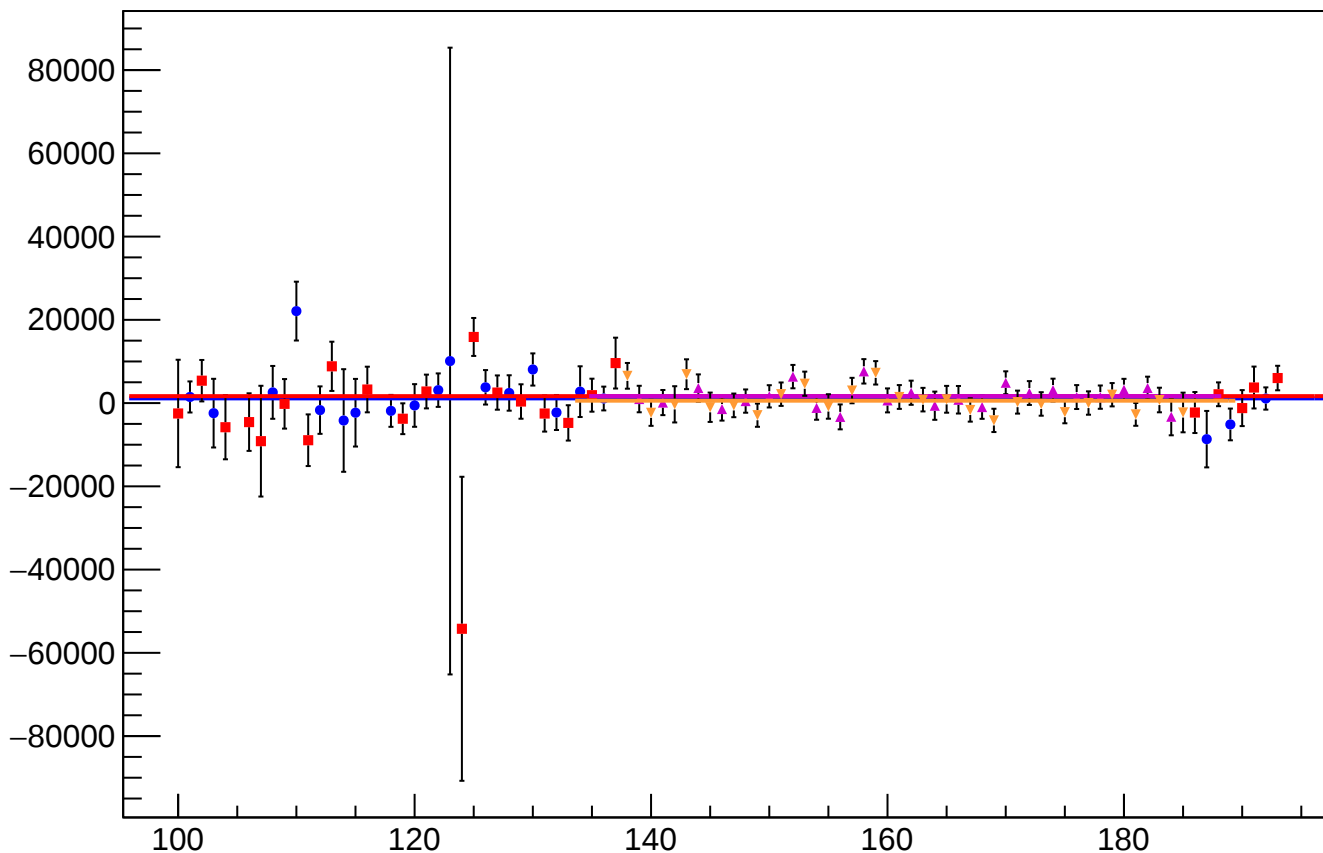
Right: 930.399+/-0.172 χ^2/NDF : 4972684.9/43

In: 684.601+/-0.104 χ^2/NDF :7308373.5/42

Out: 704.496+/-0.102 χ^2/NDF :7150745.9/48

All: 694.744+/-0.073 χ^2/NDF : 14477689.8/92

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1131.266+/-1015.692 χ^2/NDF : 19.9/19

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

Right Out: 1666.771+/-963.649 χ^2/NDF : 30.4/23

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

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

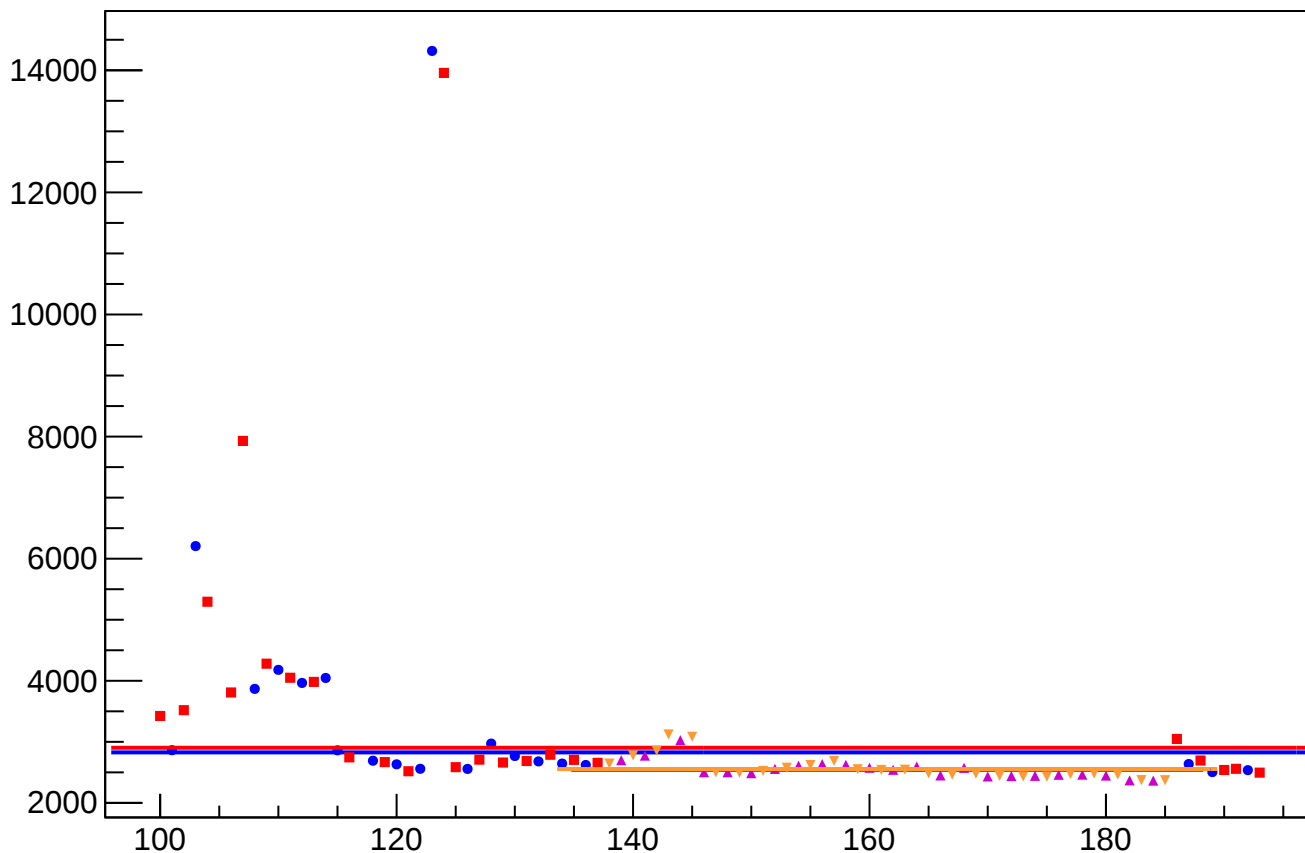
Right: 1413.089+/-699.078 χ^2/NDF : 50.4/43

In: 1534.189+/-523.007 χ^2/NDF : 38.3/42

Out: 882.183+/-507.607 χ^2/NDF : 56.7/48

All: 1198.445+/-364.255 χ^2/NDF : 95.7/91

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2827.172+/-0.718 χ^2/NDF : 688490.7/19

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

Right Out: 2902.994+/-0.681 χ^2/NDF : 1109251.6/23

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

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

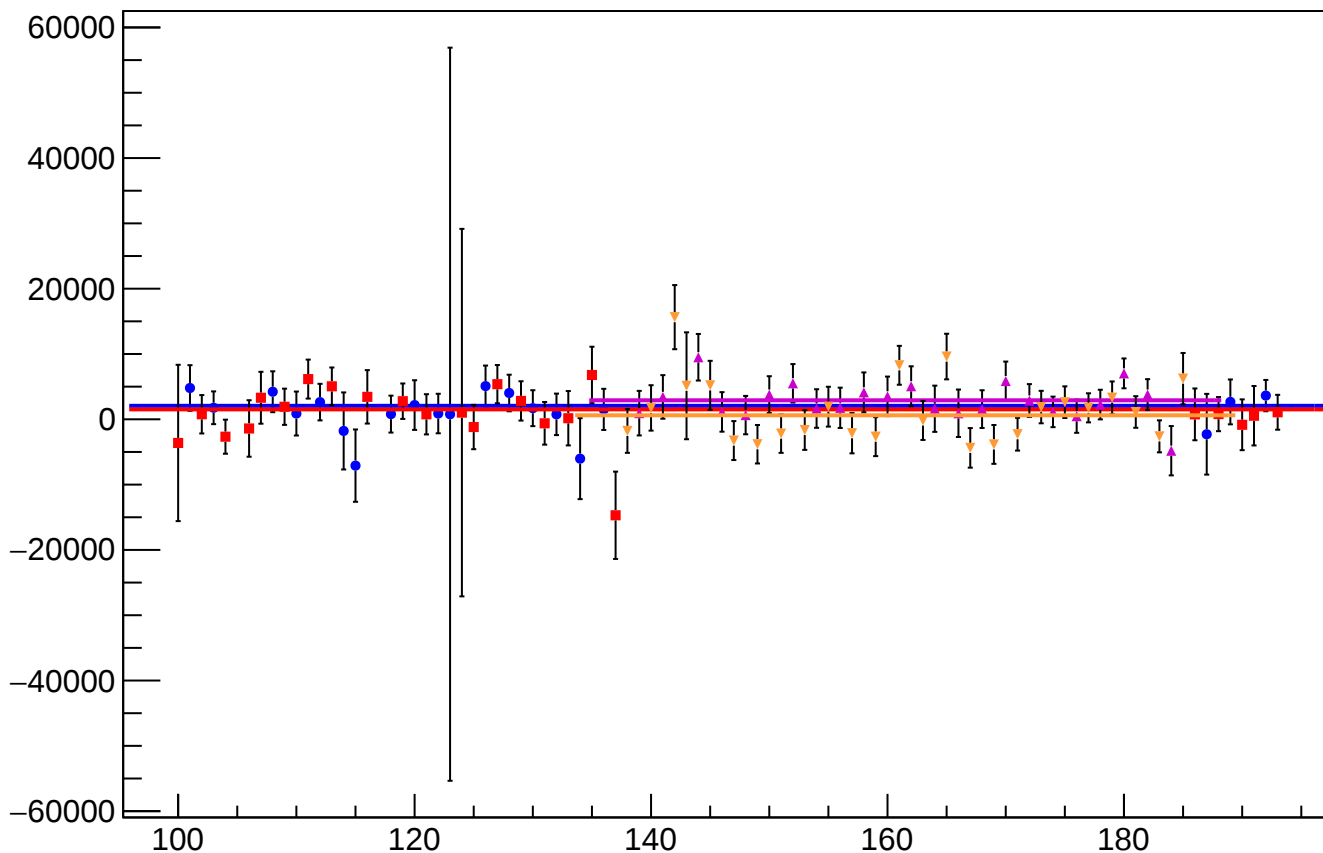
Right: 2867.075+/-0.494 χ^2/NDF : 1803608.0/43

In: 2616.869+/-0.370 χ^2/NDF :899927.0/42

Out: 2651.760+/-0.359 χ^2/NDF :1452141.1/48

All: 2634.836+/-0.258 χ^2/NDF : 2356651.6/91

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2062.917 $\pm$ 746.261 χ^2 /NDF: 9.1/19

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

Right Out: 1519.805 $\pm$ 697.179 χ^2 /NDF: 18.9/23

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

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

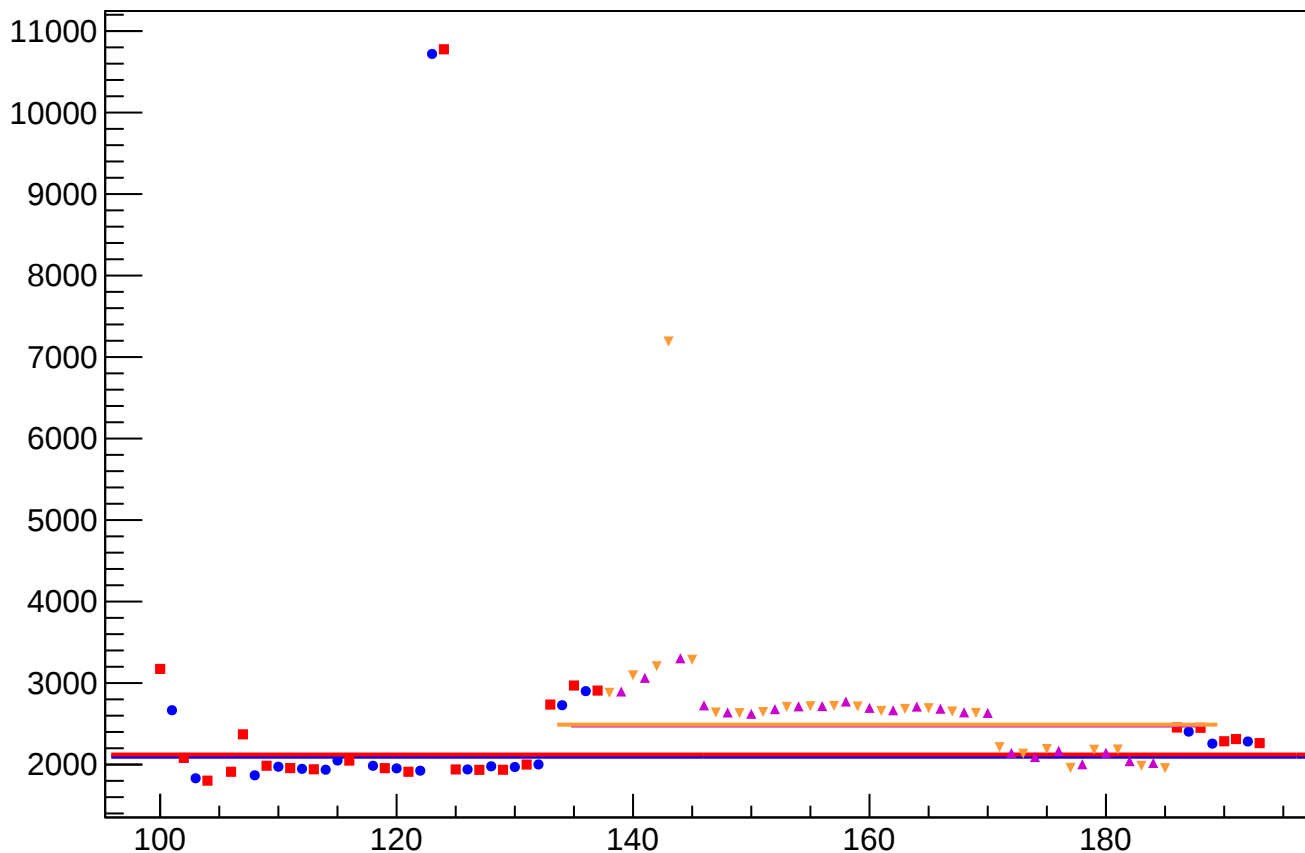
Right: 1772.915 $\pm$ 509.449 χ^2 /NDF: 28.3/43

In: 2577.091 $\pm$ 467.451 χ^2 /NDF:27.2/42

Out: 993.359 $\pm$ 450.883 χ^2 /NDF:65.1/48

All: 1756.661 $\pm$ 324.521 χ^2 /NDF: 98.2/91

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2096.517+/-0.528 χ^2/NDF : 342872.0/19

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

Right Out: 2122.966+/-0.493 χ^2/NDF : 514543.8/23

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

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

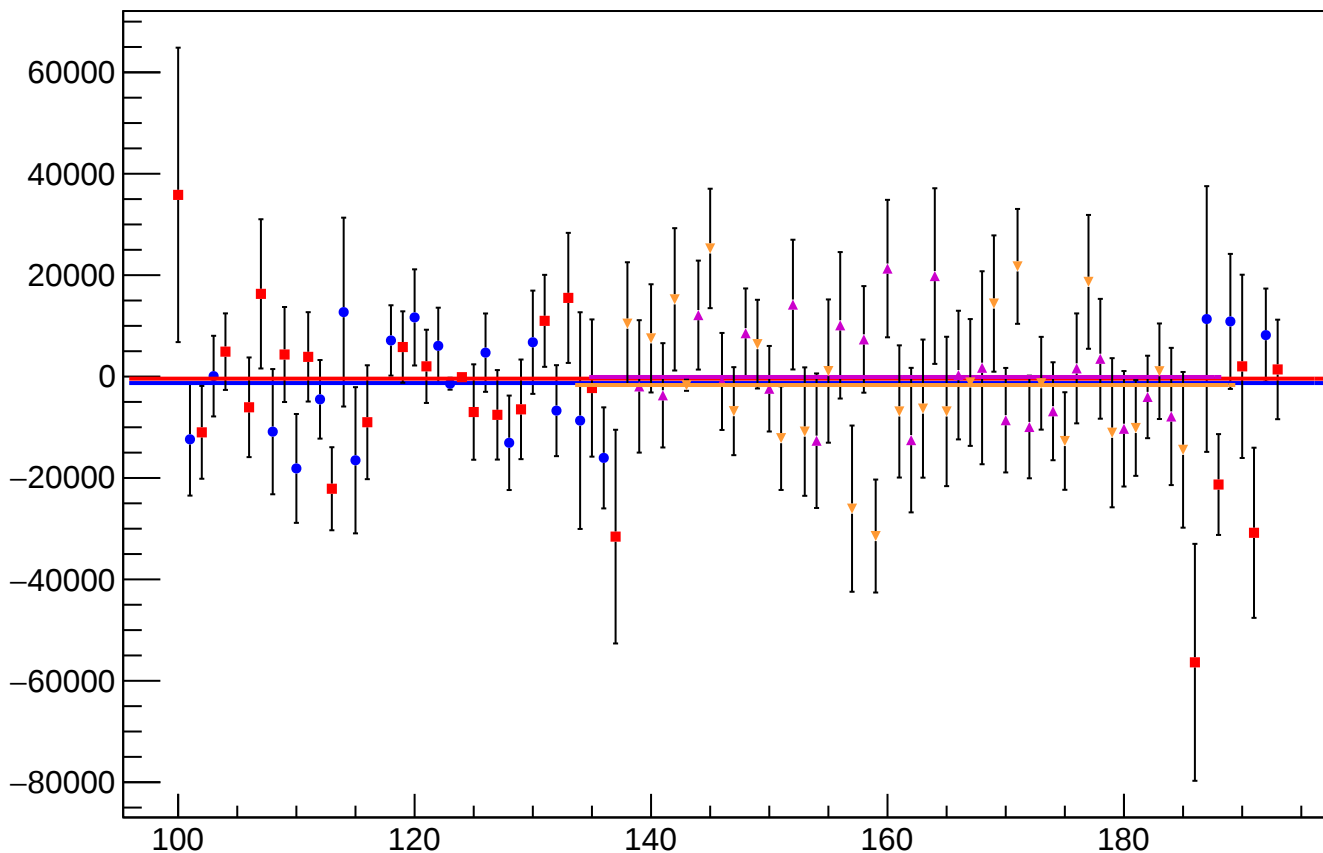
Right: 2110.640+/-0.360 χ^2/NDF : 858757.2/43

In: 2329.139+/-0.331 χ^2/NDF :1331090.8/42

Out: 2336.240+/-0.319 χ^2/NDF :2200475.2/48

All: 2332.817+/-0.229 χ^2/NDF : 3531805.1/91

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1278.620+/-1043.712 χ^2/NDF : 17.9/19

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

Right Out: -411.113+/-690.523 χ^2/NDF : 34.5/23

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

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

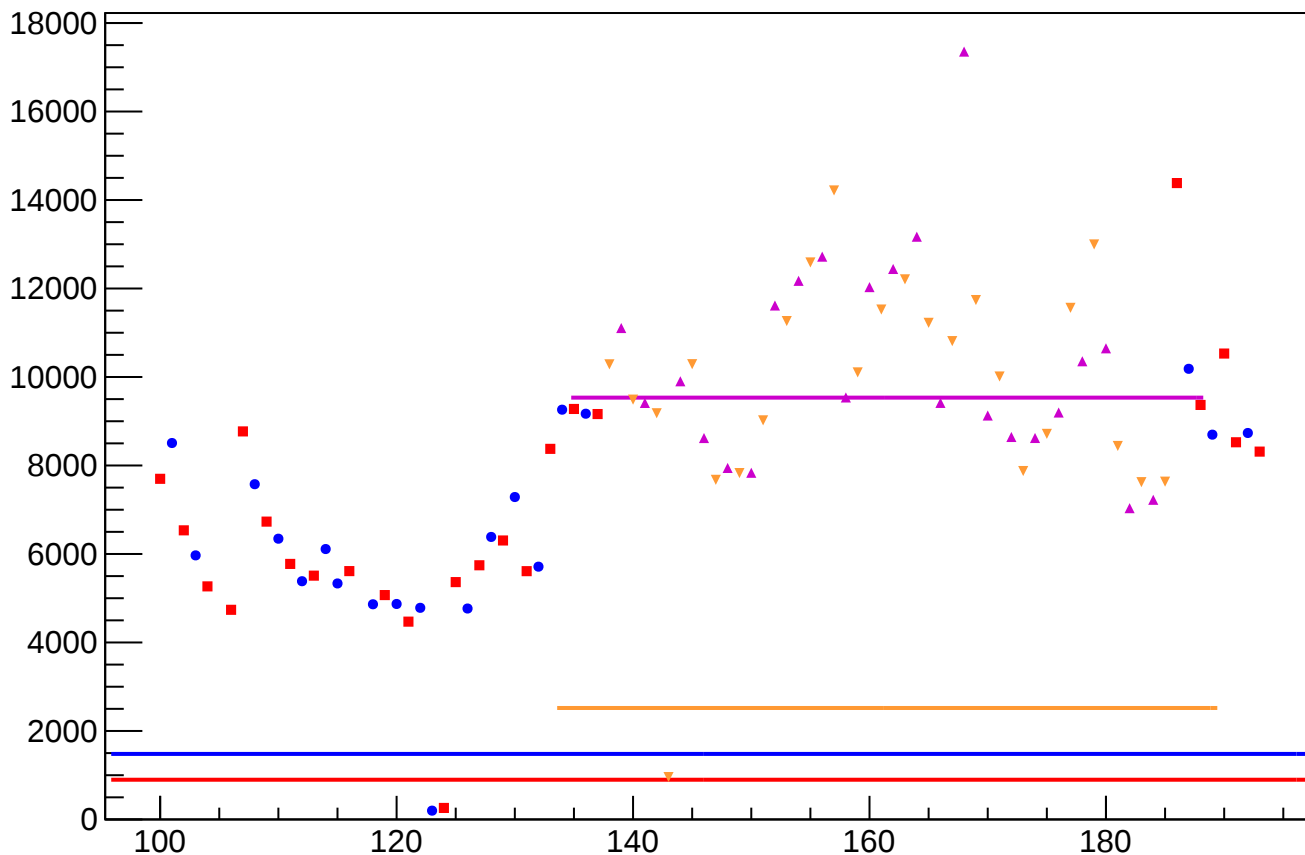
Right: -675.228+/-575.892 χ^2/NDF : 52.9/43

In: -1078.570+/-952.619 χ^2/NDF : 31.9/42

Out: -819.919+/-566.934 χ^2/NDF : 68.0/48

All: -887.568+/-487.185 χ^2/NDF : 99.9/91

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1481.156+/-0.738

χ^2/NDF : 12127294.8/19

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right: 1075.382+/-0.407

χ^2/NDF : 28267202.3/43

Right Out: 897.767+/-0.488

χ^2/NDF : 15705286.8/23

In: 2825.412+/-0.674

χ^2/NDF : 33317517.3/42

Out: 1426.281+/-0.401

χ^2/NDF : 42942180.8/48

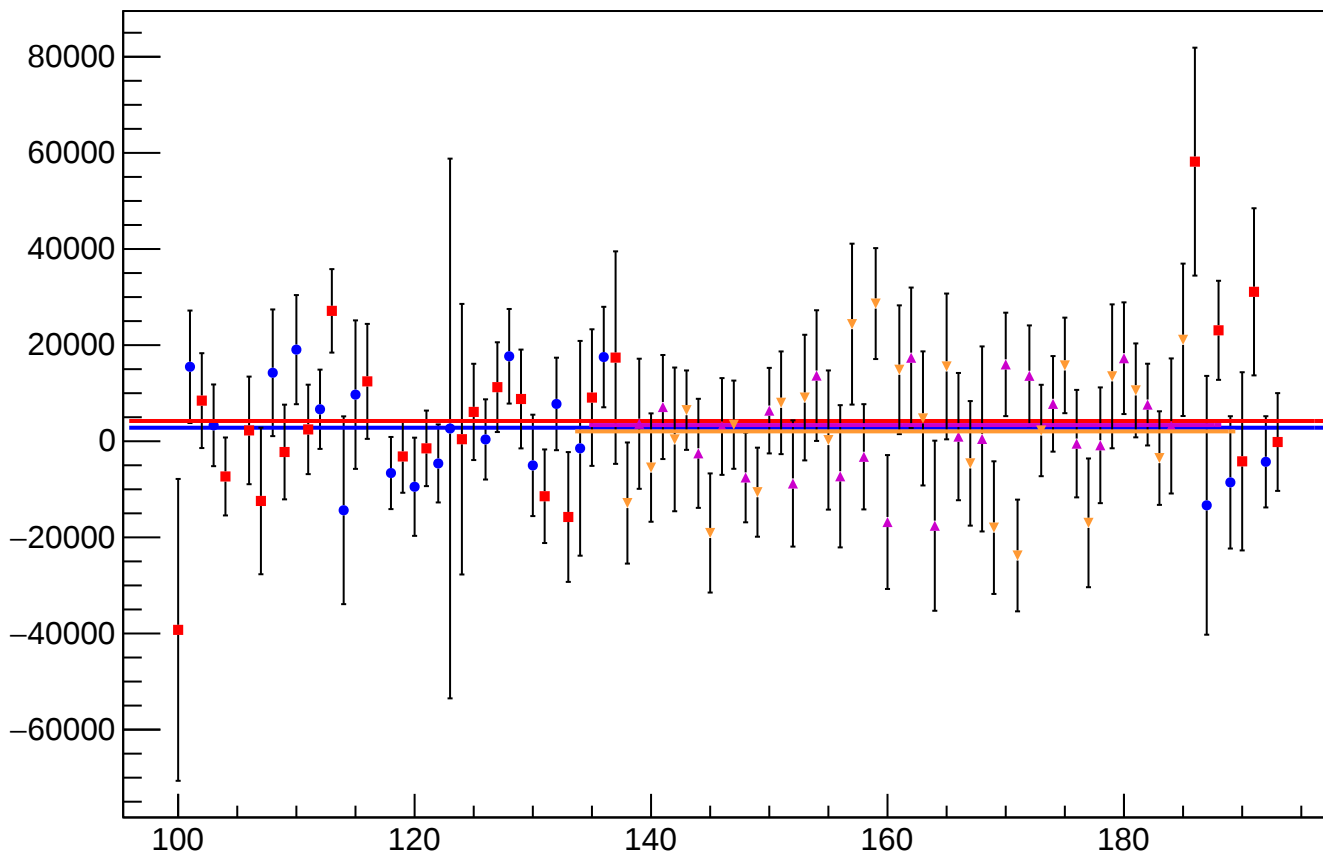
Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1792.219+/-0.344

χ^2/NDF : 79445591.5/59

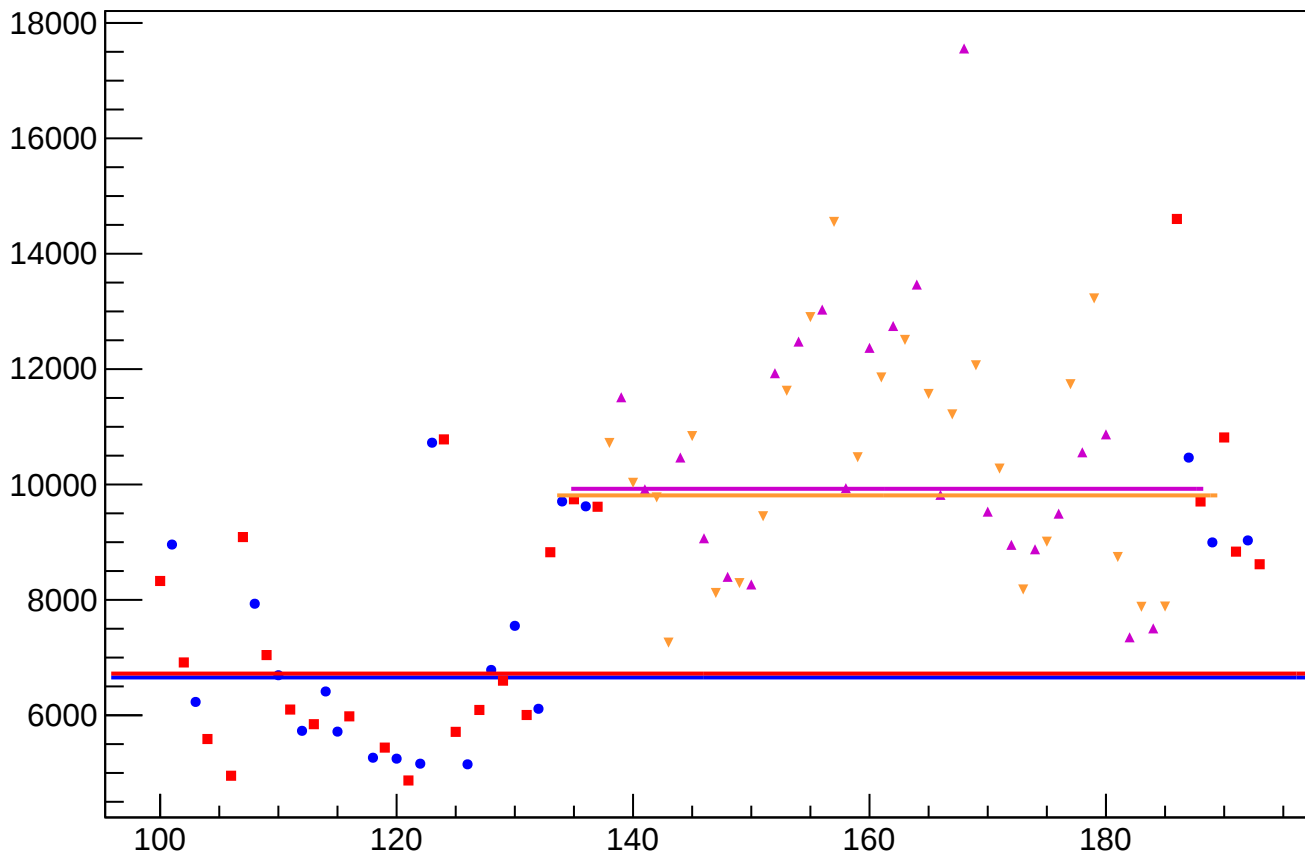
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2816.570 ± 2408.549 $\chi^2/\text{NDF}: 15.8/19$
Left Out: 2055.950 ± 2333.494 $\chi^2/\text{NDF}: 30.7/24$
Right Out: 4216.613 ± 2253.892 $\chi^2/\text{NDF}: 32.1/23$
Left In: 3371.931 ± 2423.242 $\chi^2/\text{NDF}: 13.1/22$

Left: 2689.120 ± 1680.862 $\chi^2/\text{NDF}: 44.0/47$
Right: 3562.981 ± 1645.703 $\chi^2/\text{NDF}: 48.1/43$
In: 3092.562 ± 1708.272 $\chi^2/\text{NDF}: 29.0/42$
Out: 3173.763 ± 1621.153 $\chi^2/\text{NDF}: 63.3/48$
All: 3135.286 ± 1175.921 $\chi^2/\text{NDF}: 92.2/91$

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6655.374+/-1.703 χ^2/NDF : 826920.8/19

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

Right Out: 6722.656+/-1.594 χ^2/NDF : 1191638.4/23

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

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

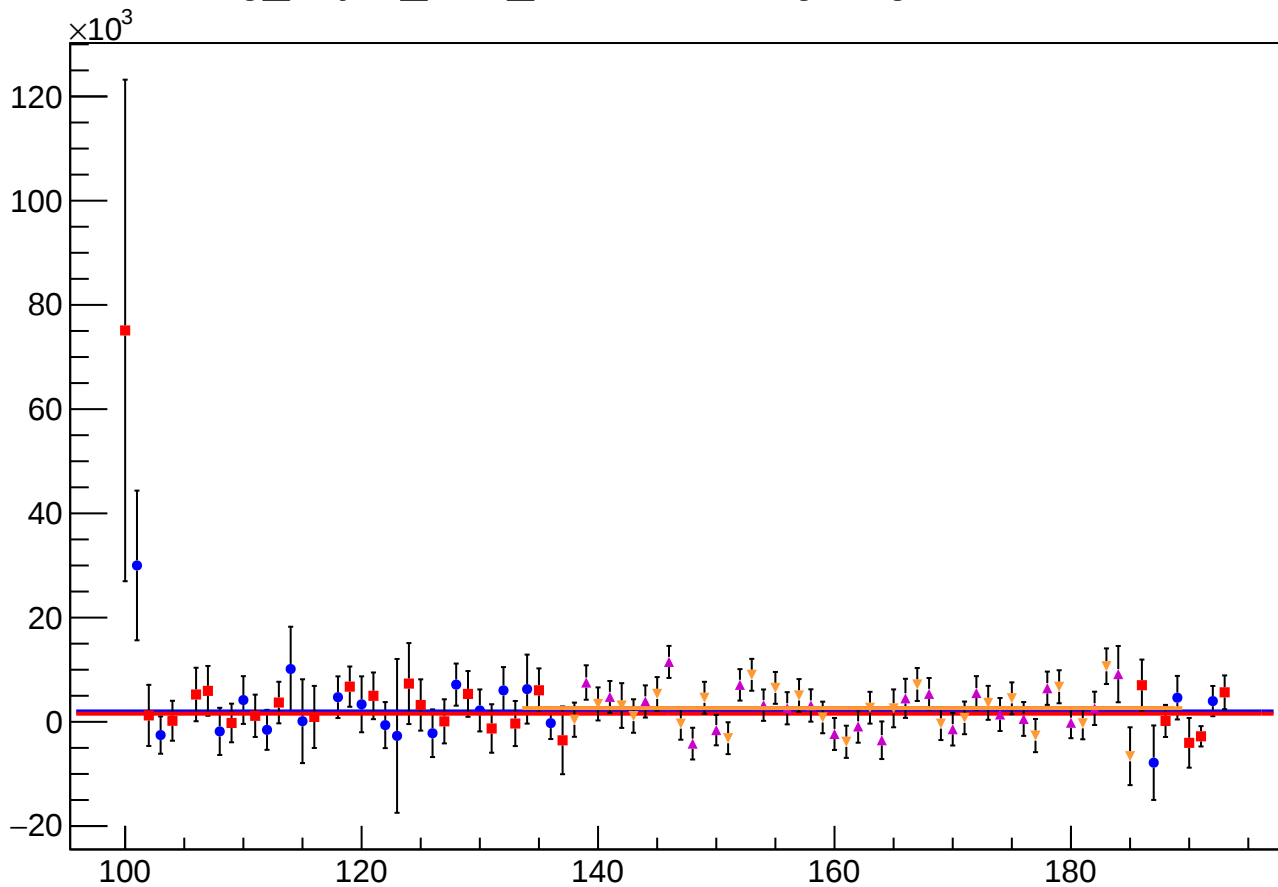
Right: 6691.246+/-1.164 χ^2/NDF : 2019391.4/43

In: 8280.405+/-1.208 χ^2/NDF : 3870482.3/42

Out: 8213.217+/-1.146 χ^2/NDF : 4217984.5/48

All: 8245.054+/-0.831 χ^2/NDF : 8090094.6/91

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1994.370+/-1011.768 χ^2/NDF : 16.2/19

Left Out: 2635.833+/-646.121 χ^2/NDF : 35.1/24

Right Out: 1564.652+/-840.449 χ^2/NDF : 20.0/23

Left In: 2638.607+/-664.569 χ^2/NDF : 35.2/22

Left: 2637.181+/-463.261 χ^2/NDF : 70.3/47

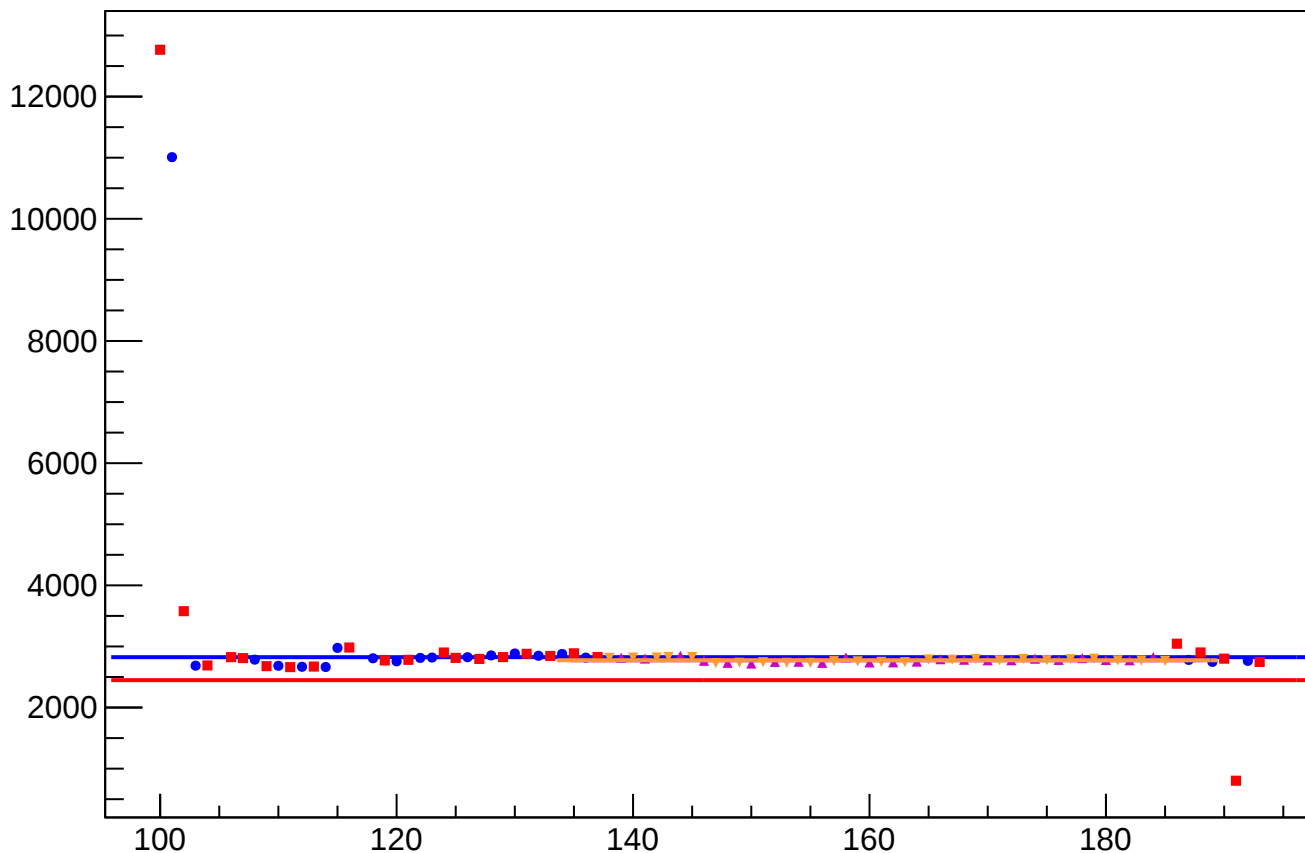
Right: 1740.102+/-646.496 χ^2/NDF : 36.3/43

In: 2444.433+/-555.462 χ^2/NDF : 51.7/42

Out: 2237.917+/-512.242 χ^2/NDF : 56.1/48

All: 2332.829+/-376.563 χ^2/NDF : 107.9/91

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2824.434+/-0.715 χ^2/NDF : 662139.4/19

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

Right Out: 2448.291+/-0.594 χ^2/NDF : 1893870.6/23

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

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

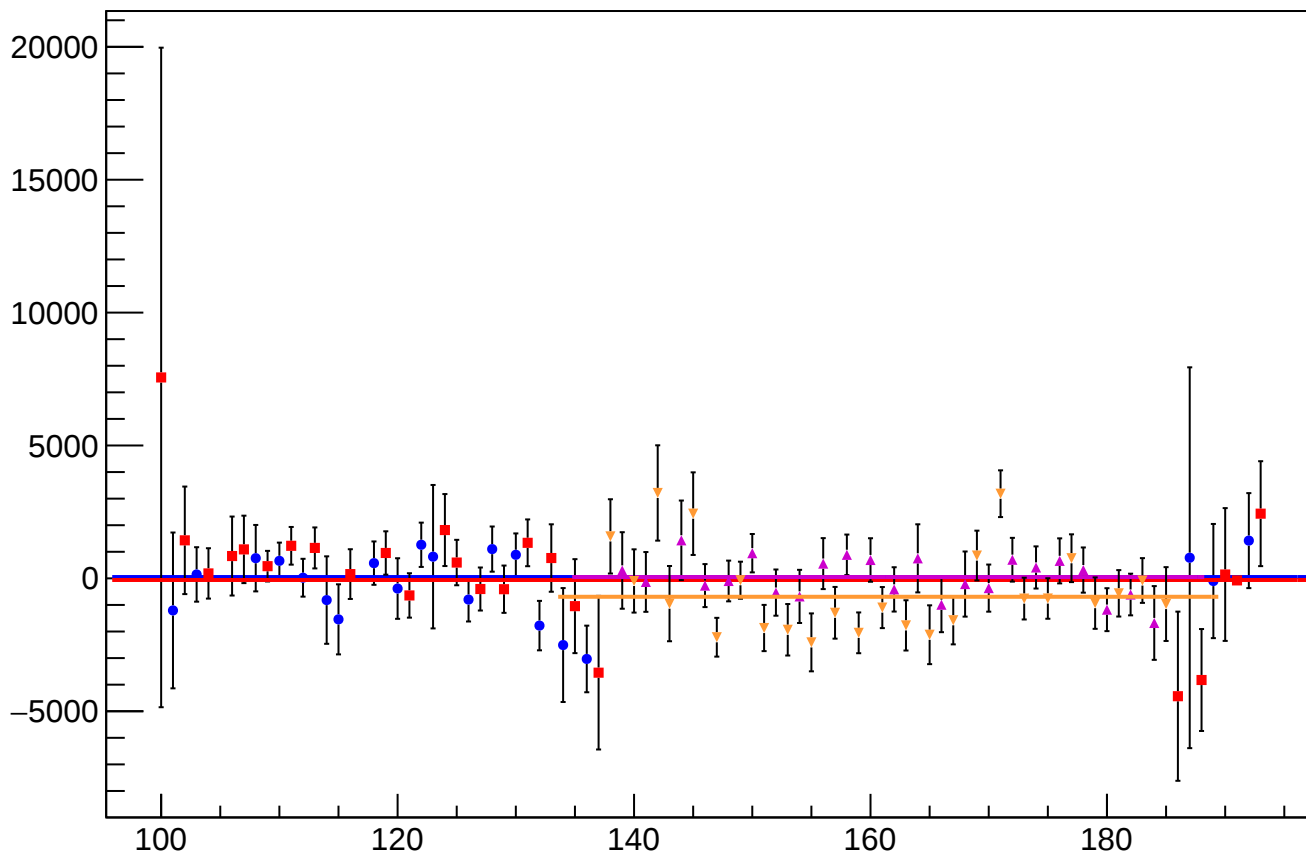
Right: 2601.866+/-0.457 χ^2/NDF : 2719572.0/43

In: 2789.226+/-0.393 χ^2/NDF : 670591.4/42

Out: 2652.827+/-0.362 χ^2/NDF : 2086950.4/48

All: 2715.514+/-0.266 χ^2/NDF : 2822714.8/91

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 49.871 ± 238.634 $\chi^2/\text{NDF}: 21.4/19$

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

Right Out: -60.929 ± 37.918 $\chi^2/\text{NDF}: 25.9/23$

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

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

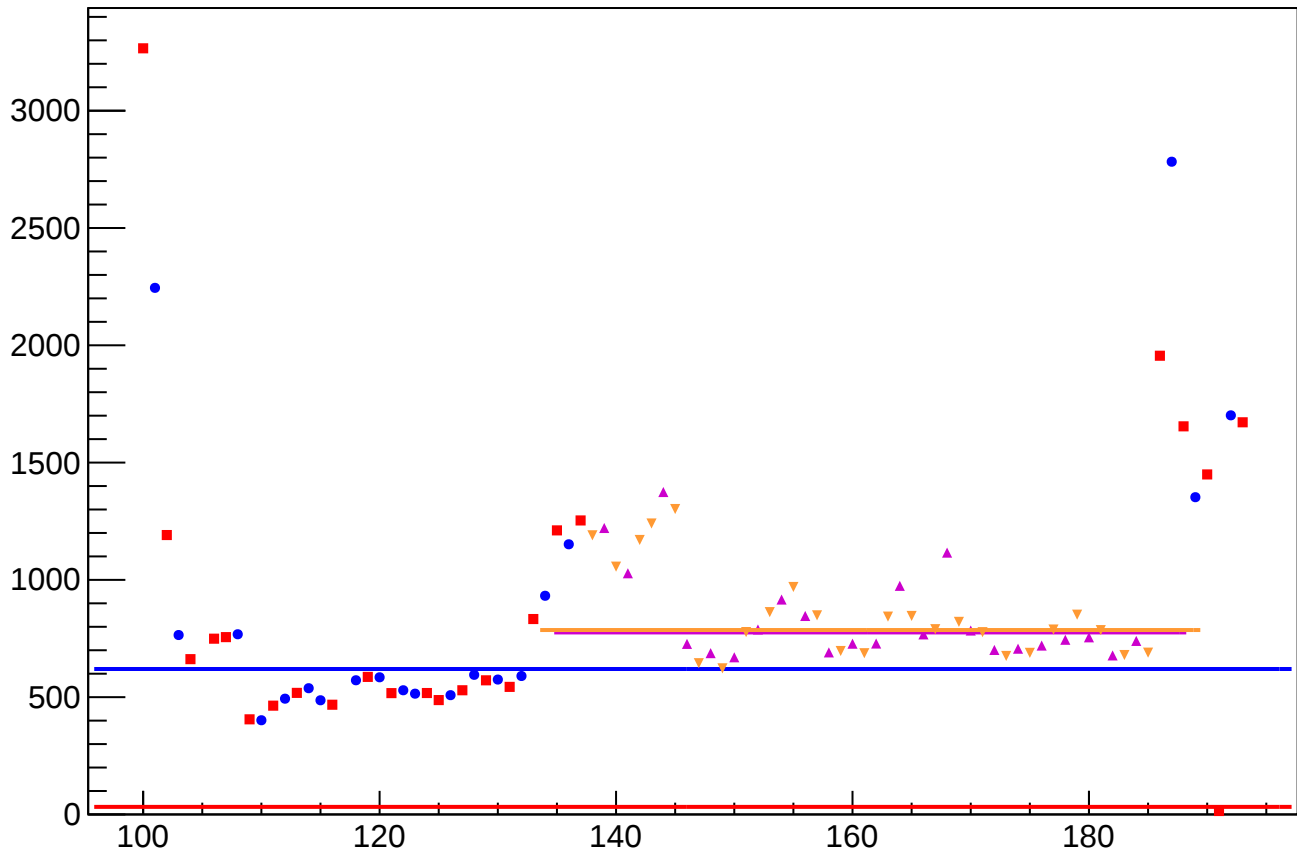
Right: -58.201 ± 37.449 $\chi^2/\text{NDF}: 47.5/43$

In: 49.486 ± 148.251 $\chi^2/\text{NDF}: 35.0/42$

Out: -85.808 ± 37.164 $\chi^2/\text{NDF}: 92.8/48$

All: -77.808 ± 36.049 $\chi^2/\text{NDF}: 128.6/91$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 620.084+/-0.169 χ^2/NDF : 2604806.0/19

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

Right Out: 32.299+/-0.027 χ^2/NDF : 16832730.9/23

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

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

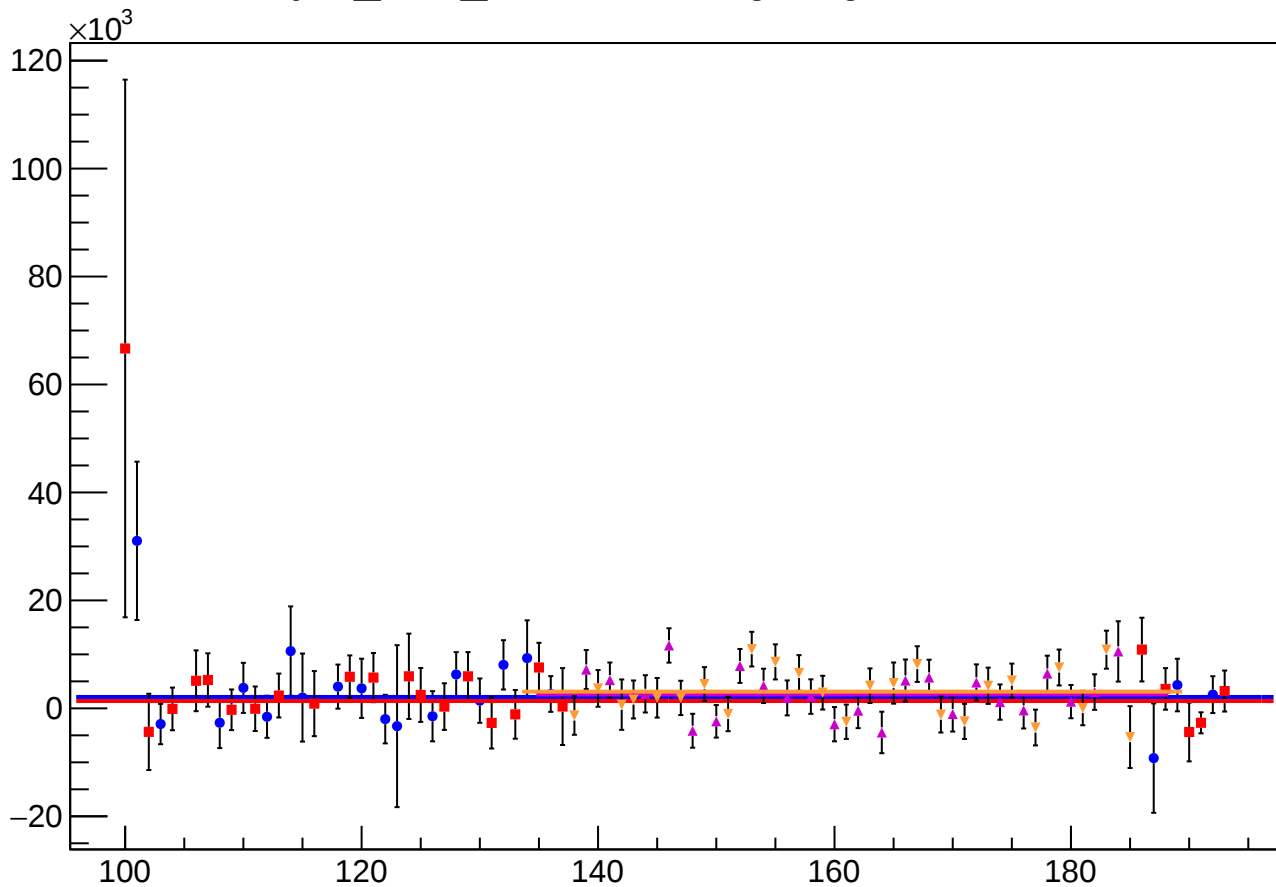
Right: 46.774+/-0.026 χ^2/NDF : 31272672.9/43

In: 715.781+/-0.105 χ^2/NDF :4185370.0/42

Out: 61.981+/-0.026 χ^2/NDF :49208017.8/48

All: 100.638+/-0.025 χ^2/NDF : 89991051.8/92

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2110.023+/-1070.990 χ^2/NDF : 15.9/19

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

Right Out: 1361.007+/-887.442 χ^2/NDF : 19.1/23

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

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

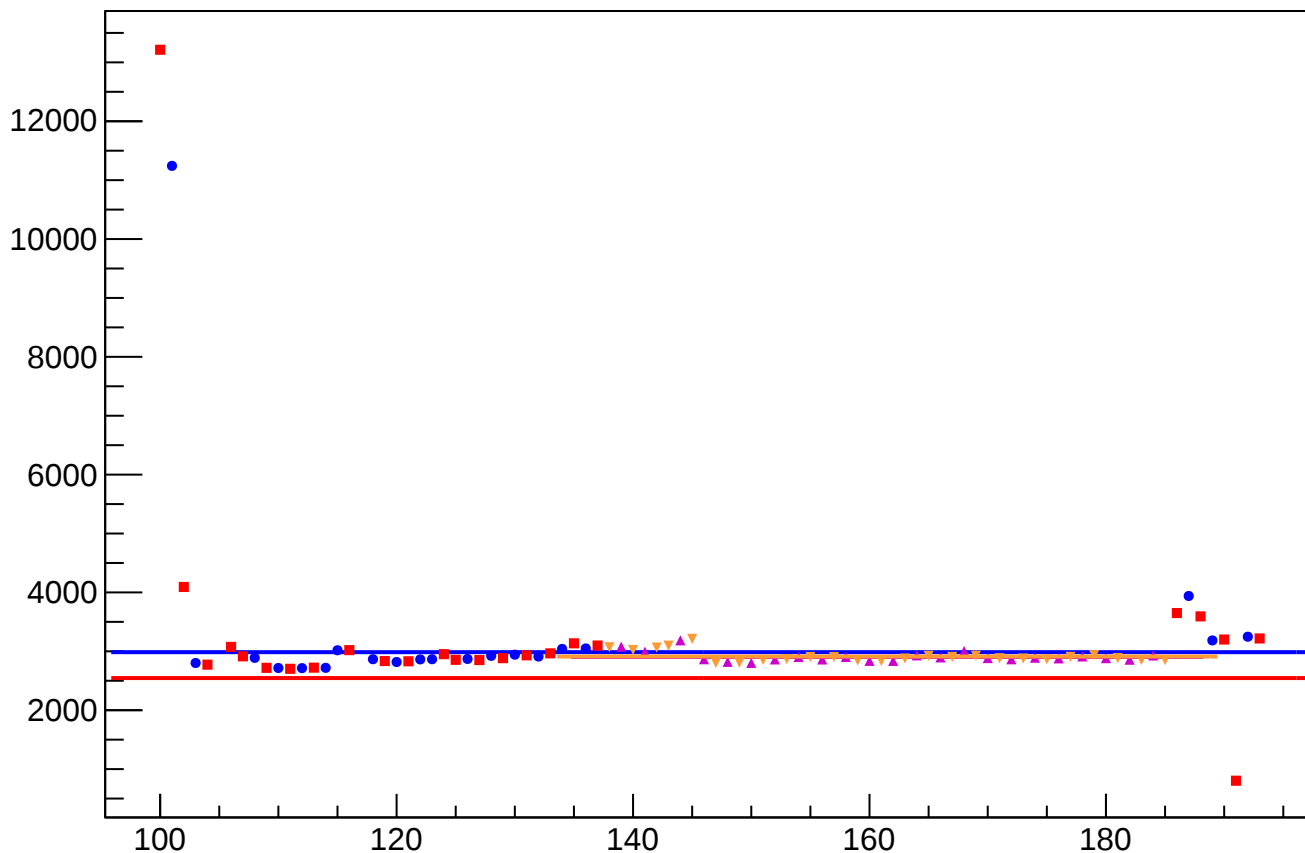
Right: 1665.927+/-683.334 χ^2/NDF : 35.4/43

In: 2435.717+/-583.471 χ^2/NDF : 51.8/42

Out: 2455.200+/-539.016 χ^2/NDF : 60.2/48

All: 2446.229+/-395.926 χ^2/NDF : 112.0/91

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2985.429+/-0.757 χ^2/NDF : 699448.1/19

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

Right Out: 2545.929+/-0.628 χ^2/NDF : 2284816.0/23

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

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

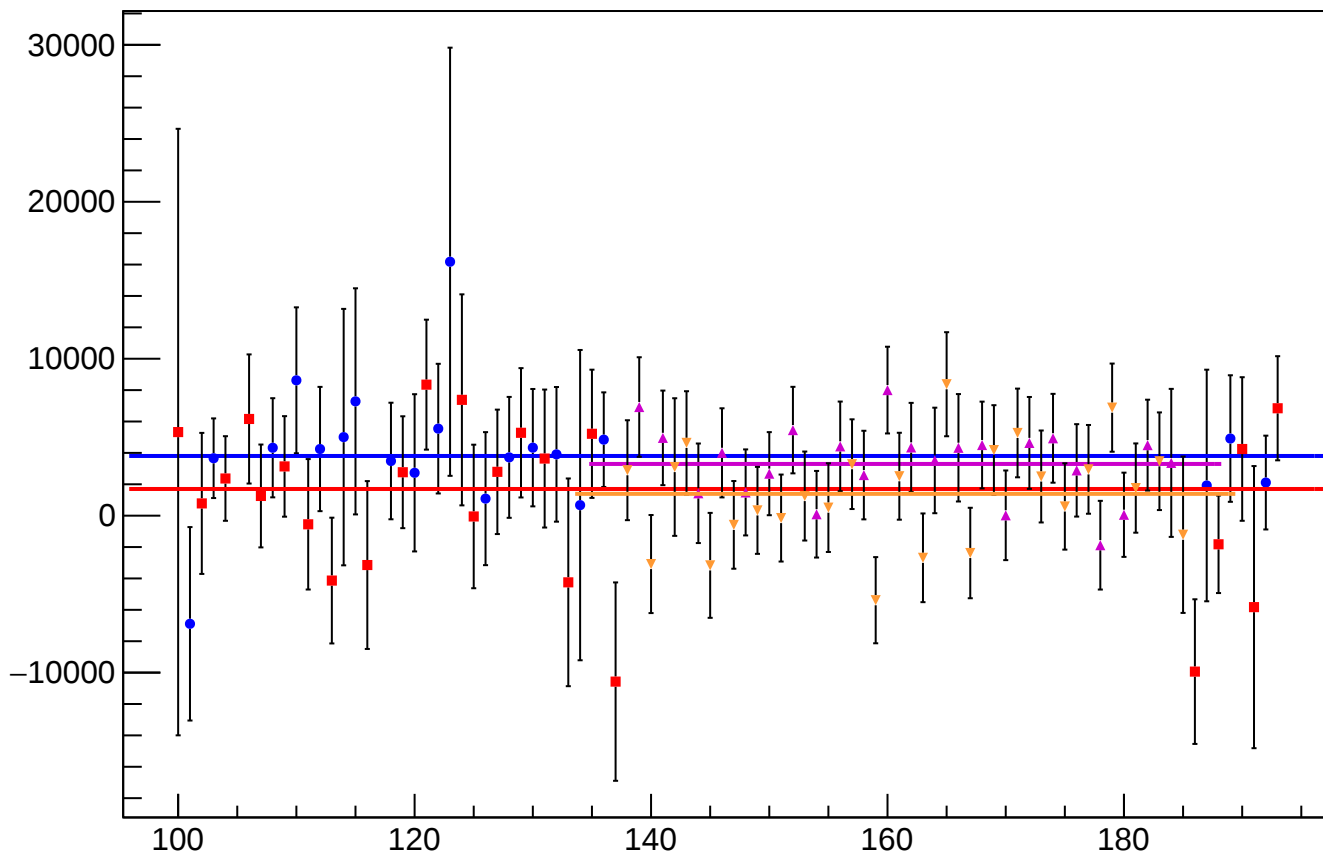
Right: 2724.847+/-0.483 χ^2/NDF : 3183956.5/43

In: 2927.754+/-0.413 χ^2/NDF : 736534.7/42

Out: 2776.463+/-0.381 χ^2/NDF : 2535321.3/48

All: 2846.126+/-0.280 χ^2/NDF : 3344406.3/91

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3803.741 $\pm$ 927.056 χ^2 /NDF: 6.6/19

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

Right Out: 1700.700 $\pm$ 849.592 χ^2 /NDF: 25.7/23

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

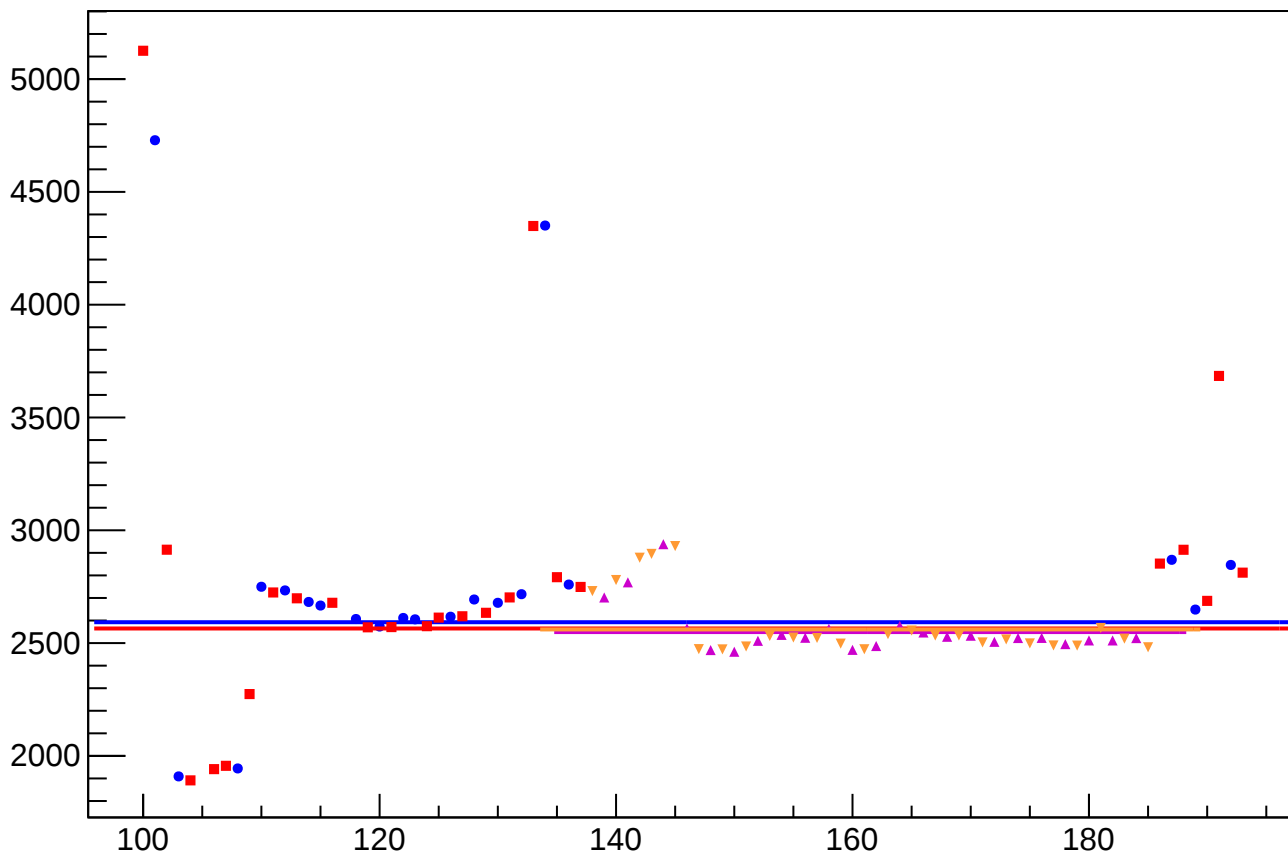
Right: 2660.699 $\pm$ 626.350 χ^2 /NDF: 35.1/43

In: 3448.966 $\pm$ 509.575 χ^2 /NDF:21.6/42

Out: 1492.776 $\pm$ 488.198 χ^2 /NDF:55.0/48

All: 2428.979 $\pm$ 352.523 χ^2 /NDF: 84.3/91

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2592.535+/-0.656 χ^2/NDF : 566210.1/19

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

Right Out: 2564.720+/-0.601 χ^2/NDF : 542484.1/23

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

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

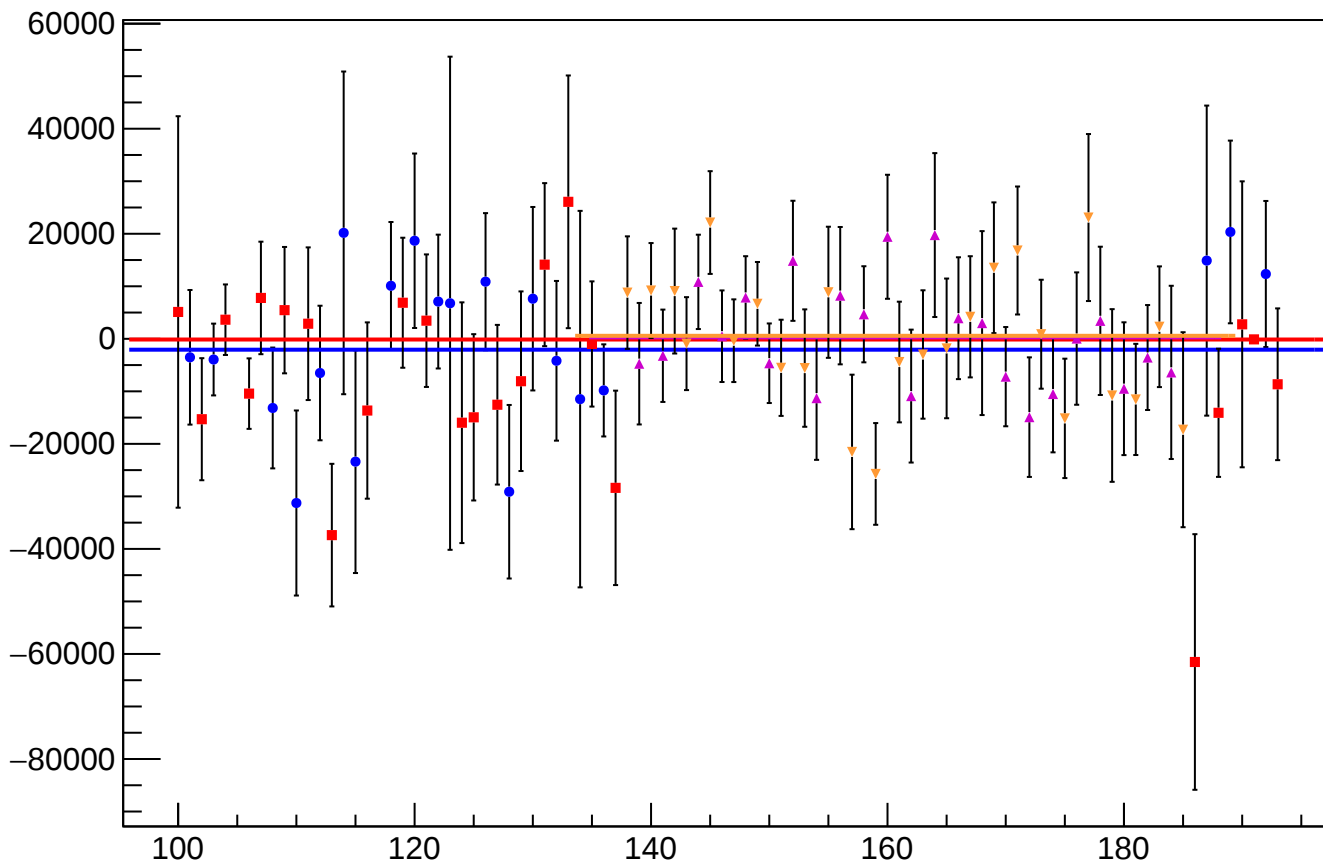
Right: 2577.417+/-0.443 χ^2/NDF : 1109672.8/43

In: 2562.063+/-0.360 χ^2/NDF : 624572.7/42

Out: 2561.914+/-0.345 χ^2/NDF : 629288.1/48

All: 2561.985+/-0.249 χ^2/NDF : 1253860.9/91

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2071.932 $\pm$ 3082.699 χ^2 /NDF: 16.4/19

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

Right Out: -133.718 $\pm$ 195.041 χ^2 /NDF: 28.4/23

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

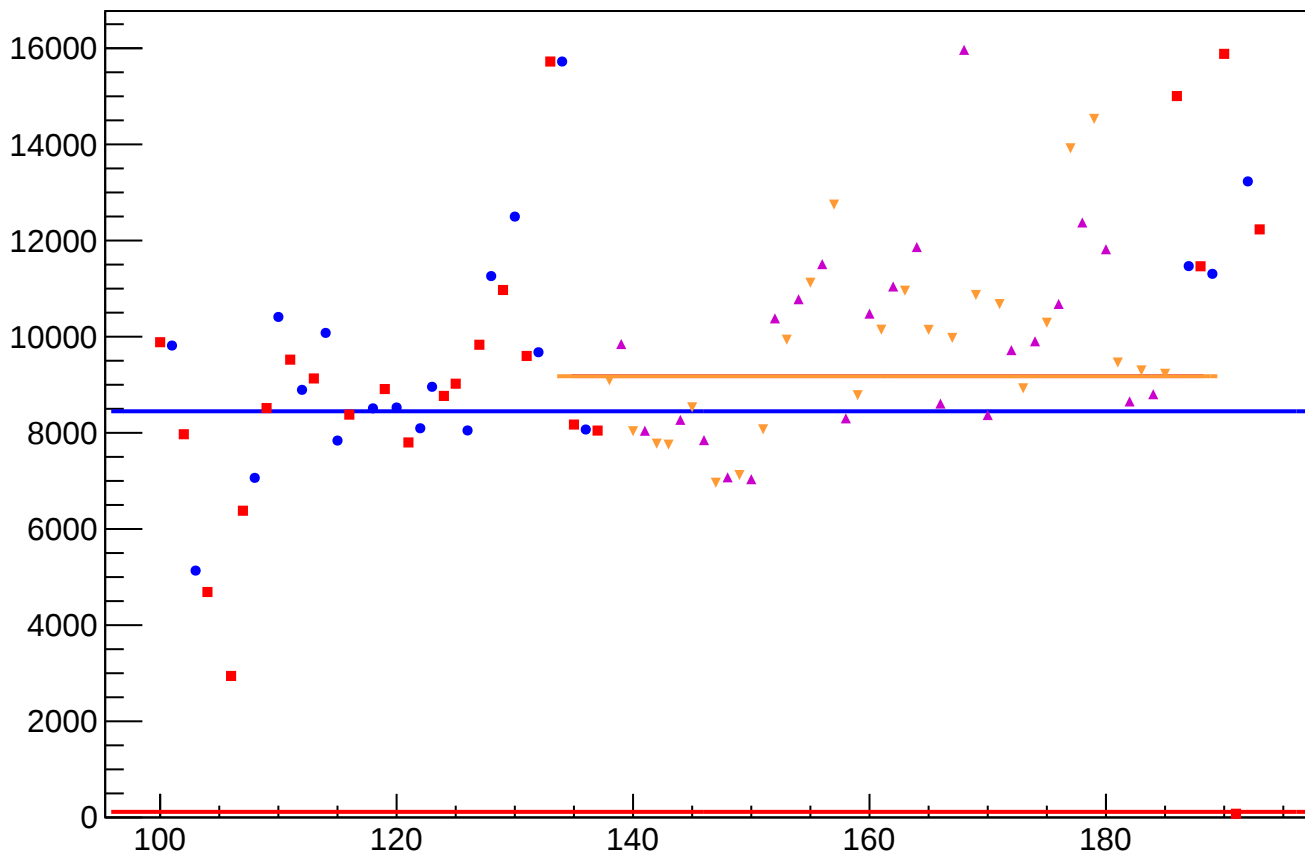
Right: -141.445 $\pm$ 194.651 χ^2 /NDF: 45.3/43

In: -537.249 $\pm$ 1813.618 χ^2 /NDF:32.5/42

Out: -128.132 $\pm$ 194.268 χ^2 /NDF:56.8/48

All: -132.773 $\pm$ 193.163 χ^2 /NDF: 89.3/91

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8448.591+/-2.180

χ^2/NDF : 1136406.5/19

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 116.381+/-0.138

χ^2/NDF : 17996807.3/23

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 149.602+/-0.138

χ^2/NDF : 33686229.4/43

In: 8927.663+/-1.282

χ^2/NDF : 2446747.1/42

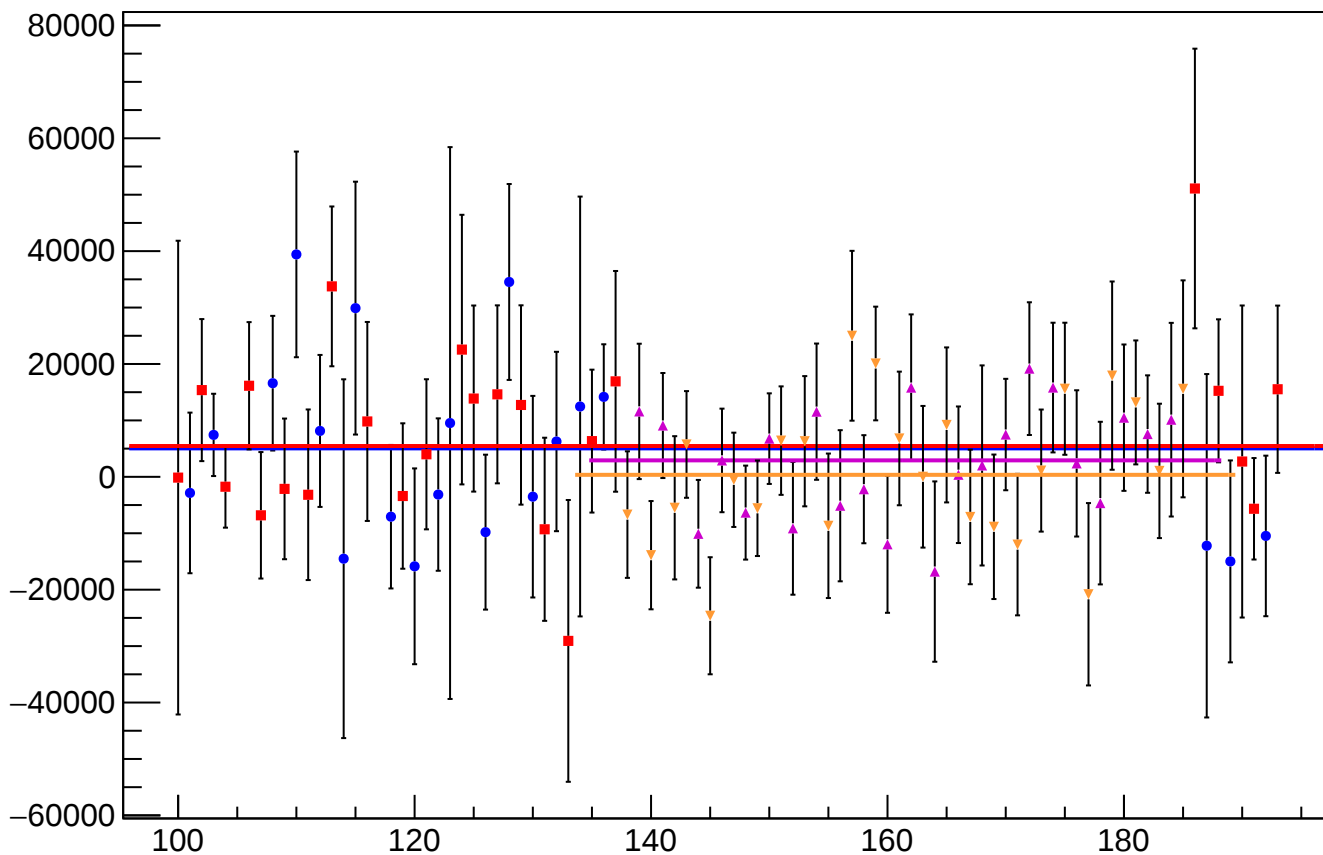
Out: 188.051+/-0.137

χ^2/NDF : 53316510.5/48

All: 287.191+/-0.137

χ^2/NDF : 101679664.3/9

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5042.983+/-3248.617 χ^2/NDF : 17.4/19

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 5460.595+/-2824.029 χ^2/NDF : 19.3/23

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

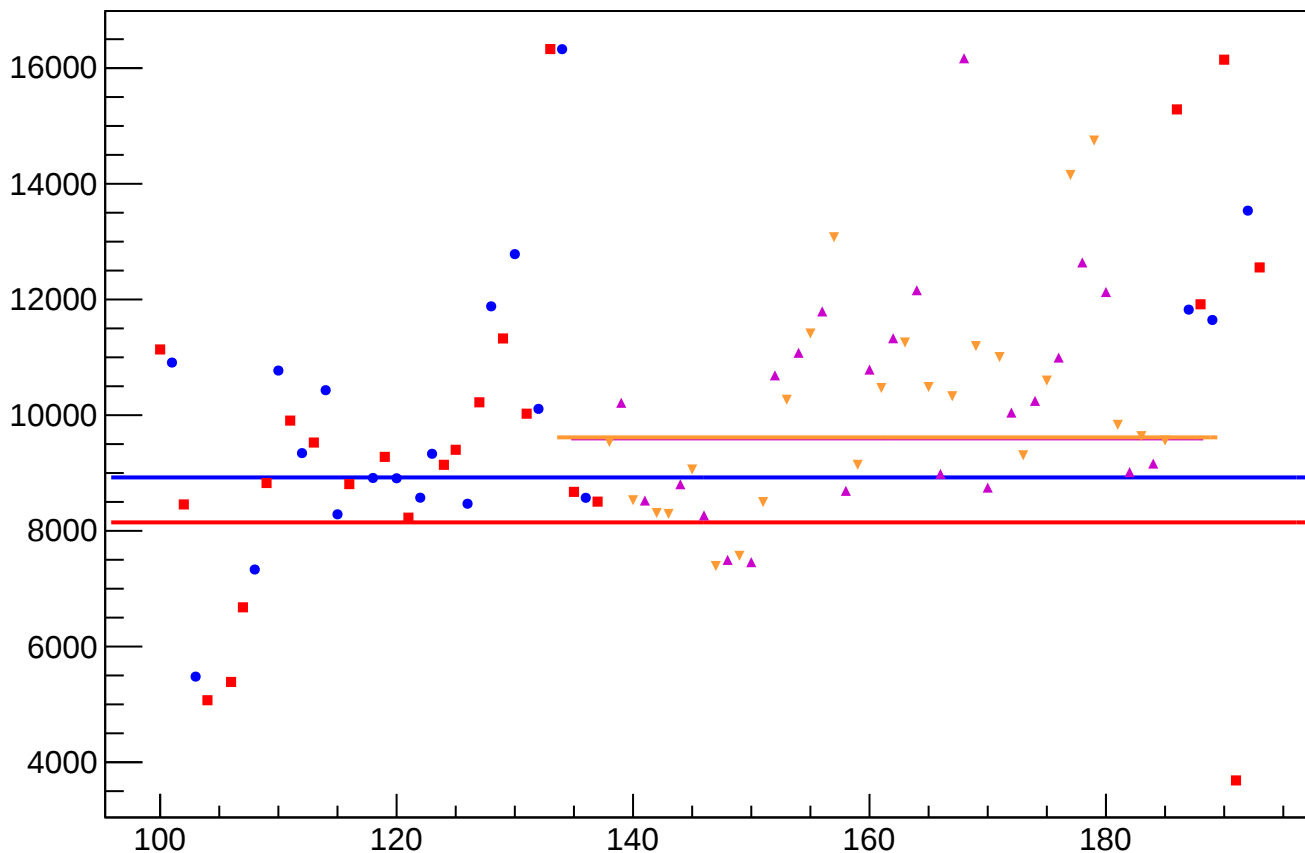
Right: 5280.845+/-2131.306 χ^2/NDF : 36.7/43

In: 3643.507+/-1897.892 χ^2/NDF : 32.6/42

Out: 2371.948+/-1774.789 χ^2/NDF : 47.5/48

All: 2965.154+/-1296.302 χ^2/NDF : 80.3/91

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8923.882 $\pm$ 2.297 χ^2 /NDF: 1072197.2/19

Left Out: 9616.245 $\pm$ 1.613 χ^2 /NDF:1011665.6/24

Right Out: 8146.554 $\pm$ 1.997 χ^2 /NDF: 2135181.5/23

Left In: 9598.531 $\pm$ 1.654 χ^2 /NDF:1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2 /NDF: 2093896.0/47

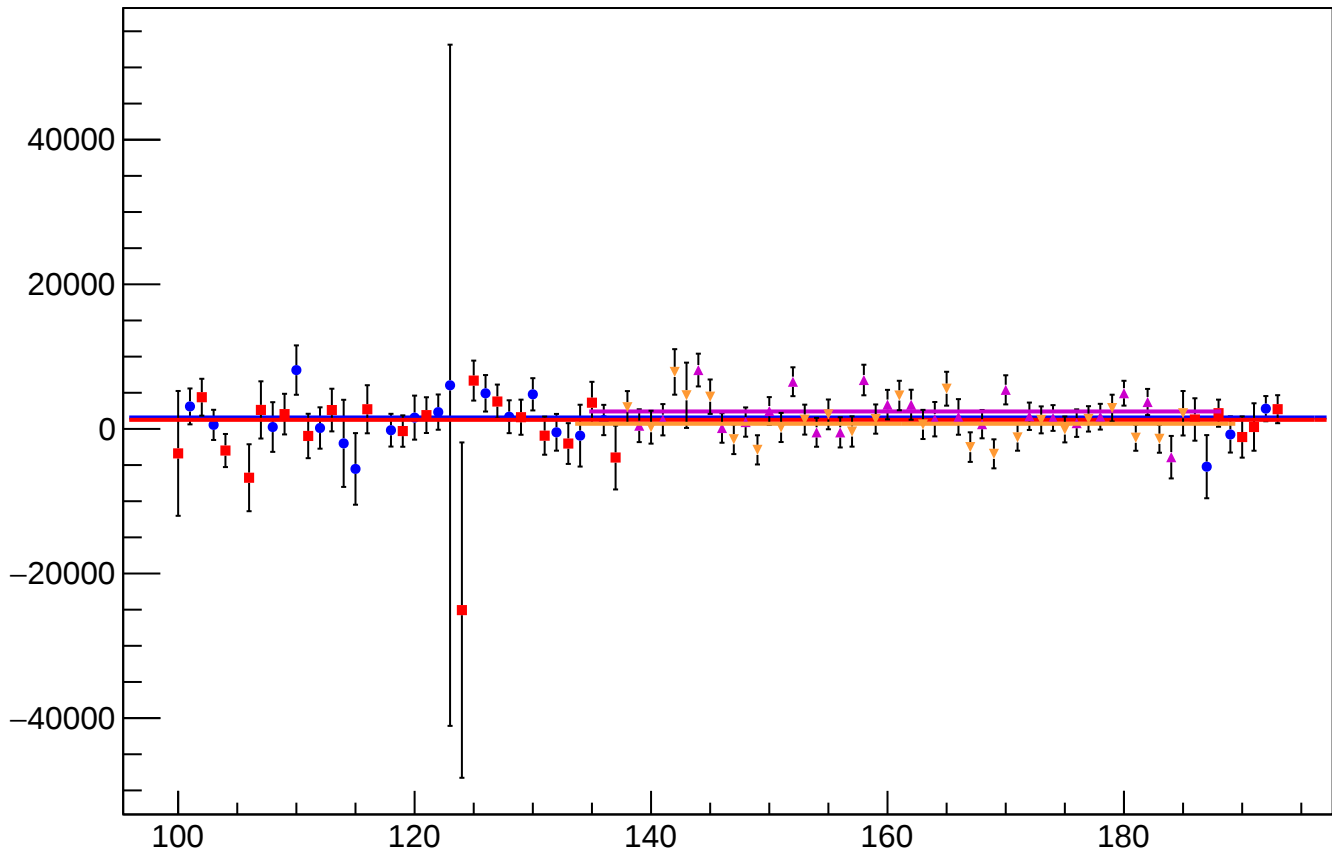
Right: 8481.119 $\pm$ 1.507 χ^2 /NDF: 3272602.9/43

In: 9368.268 $\pm$ 1.342 χ^2 /NDF:2211184.9/42

Out: 9035.747 $\pm$ 1.255 χ^2 /NDF:3474600.0/48

All: 9190.872 $\pm$ 0.917 χ^2 /NDF: 5718537.9/91

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1583.646+/-602.469 χ^2/NDF : 16.5/19

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1256.064+/-568.891 χ^2/NDF : 22.0/23

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

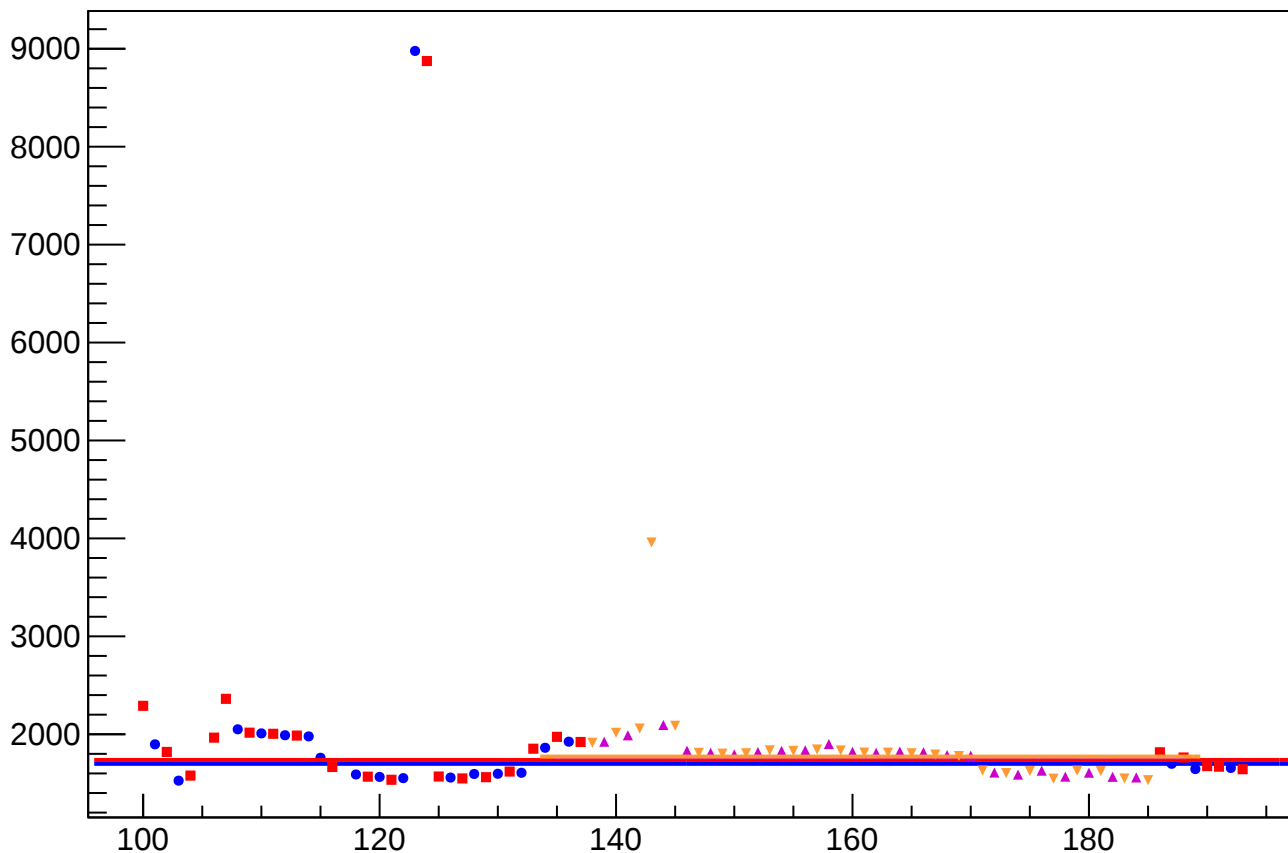
Right: 1410.472+/-413.628 χ^2/NDF : 38.6/43

In: 2139.918+/-346.450 χ^2/NDF : 51.7/42

Out: 900.898+/-336.521 χ^2/NDF : 57.4/48

All: 1502.400+/-241.390 χ^2/NDF : 115.7/91

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1698.061+/-0.426 χ^2/NDF : 198327.1/19

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1737.698+/-0.401 χ^2/NDF : 405221.1/23

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

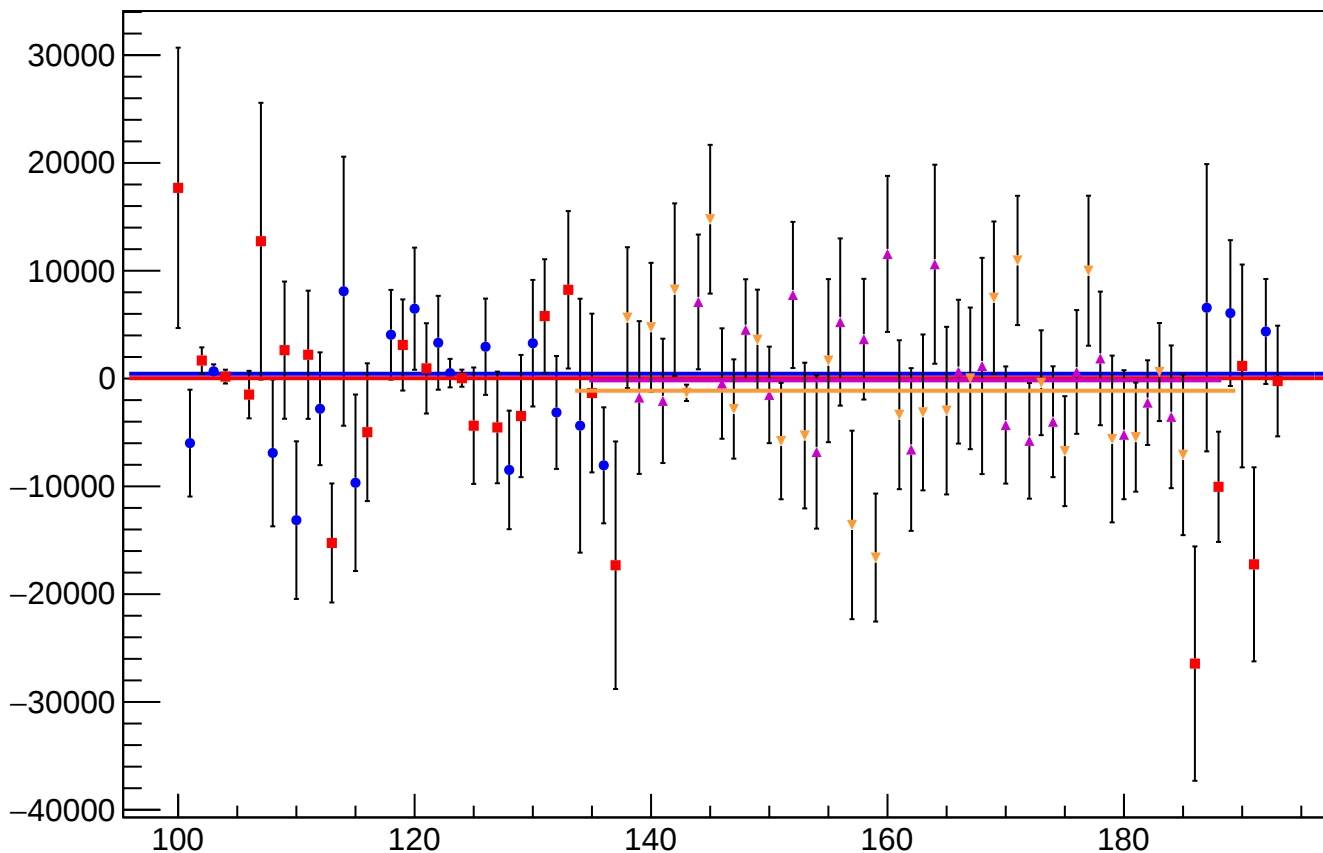
Right: 1719.078+/-0.292 χ^2/NDF : 608138.4/43

In: 1739.250+/-0.245 χ^2/NDF : 427185.0/42

Out: 1759.977+/-0.238 χ^2/NDF : 1112452.8/48

All: 1749.926+/-0.171 χ^2/NDF : 1543325.1/91

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 444.978 ± 535.243 $\chi^2/\text{NDF}: 18.9/19$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: 34.087 ± 429.323 $\chi^2/\text{NDF}: 34.4/23$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

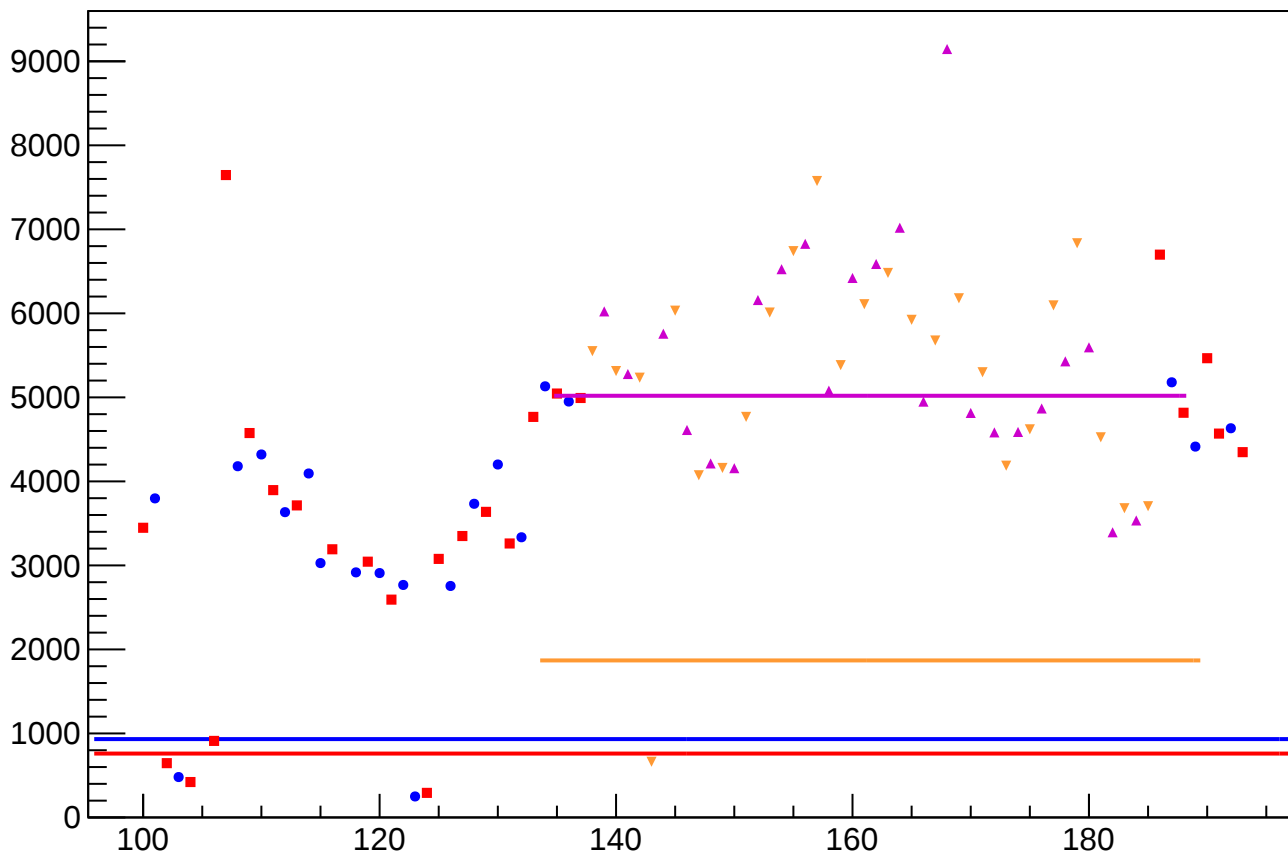
Right: 194.950 ± 334.900 $\chi^2/\text{NDF}: 53.7/43$

In: 347.676 ± 490.941 $\chi^2/\text{NDF}: 33.3/42$

Out: -321.264 ± 357.832 $\chi^2/\text{NDF}: 68.2/48$

All: -89.182 ± 289.172 $\chi^2/\text{NDF}: 102.6/91$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 932.628 $\pm$ 0.378 χ^2 /NDF: 10052085.3/19

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

Right Out: 760.439 $\pm$ 0.304 χ^2 /NDF: 12121408.4/23

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

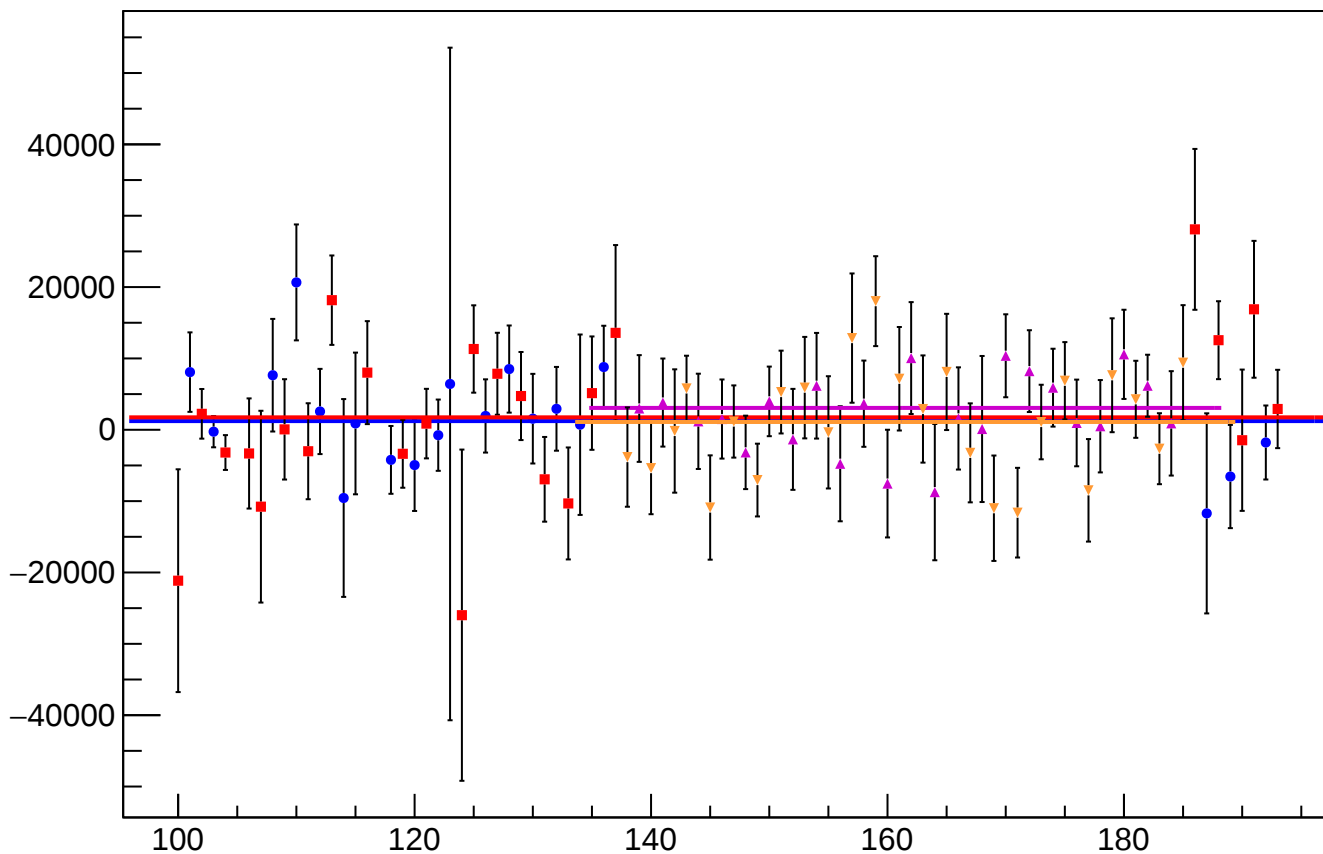
Right: 827.851 $\pm$ 0.237 χ^2 /NDF: 22299444.2/43

In: 1581.108 $\pm$ 0.347 χ^2 /NDF: 30121268.7/42

Out: 1098.891 $\pm$ 0.253 χ^2 /NDF: 36044927.4/48

All: 1266.191 $\pm$ 0.204 χ^2 /NDF: 67426311.5/95

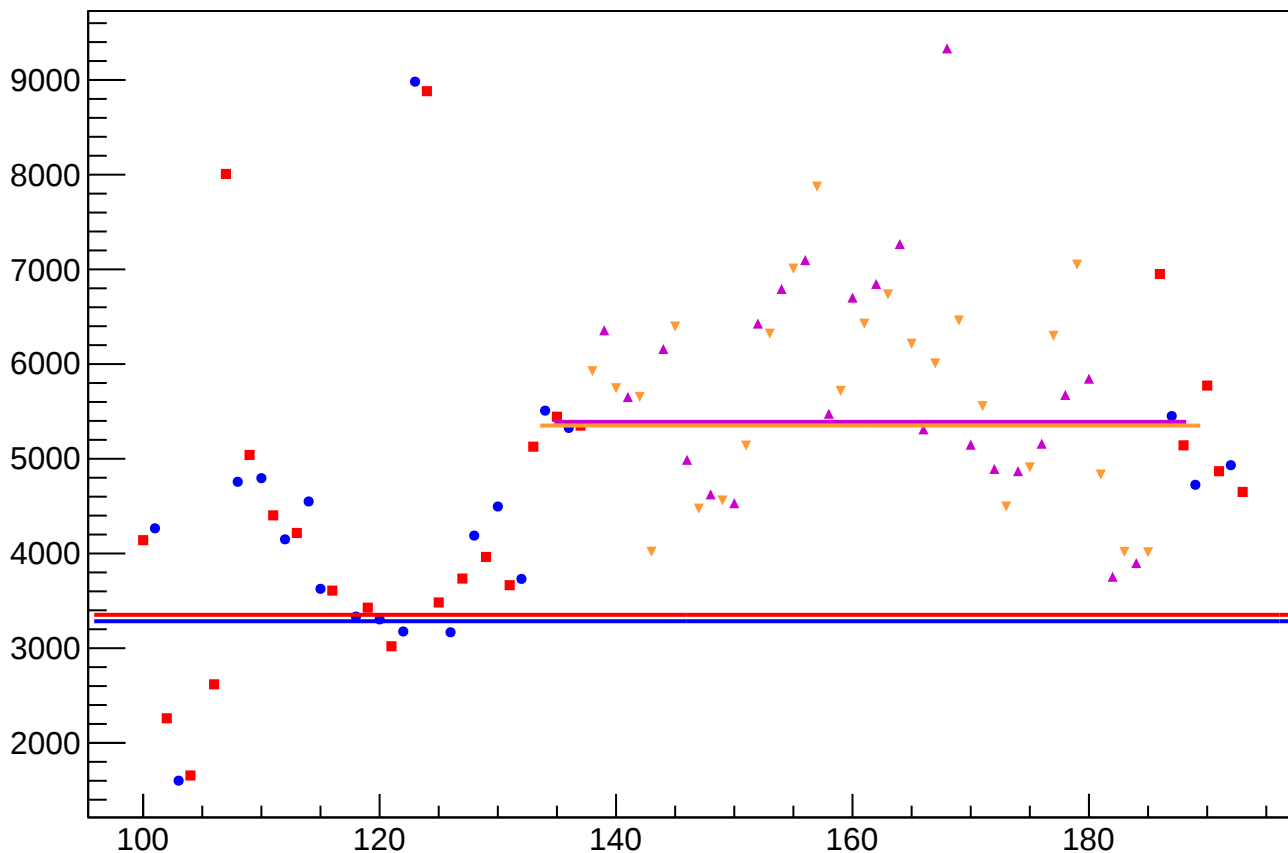
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1216.364+/-1248.825 χ^2/NDF : 17.0/19
Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24
Right Out: 1742.498+/-1196.878 χ^2/NDF : 39.8/23
Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47
Right: 1490.601+/-864.102 χ^2/NDF : 56.9/43
In: 2090.671+/-906.578 χ^2/NDF : 30.6/42
Out: 1438.394+/-872.027 χ^2/NDF : 71.9/48
All: 1751.866+/-628.476 χ^2/NDF : 102.8/91

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3284.750 $\pm$ 0.883 χ^2 /NDF: 2245907.3/19

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3352.568 $\pm$ 0.836 χ^2 /NDF: 2802991.2/23

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF:1309863.0/22

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

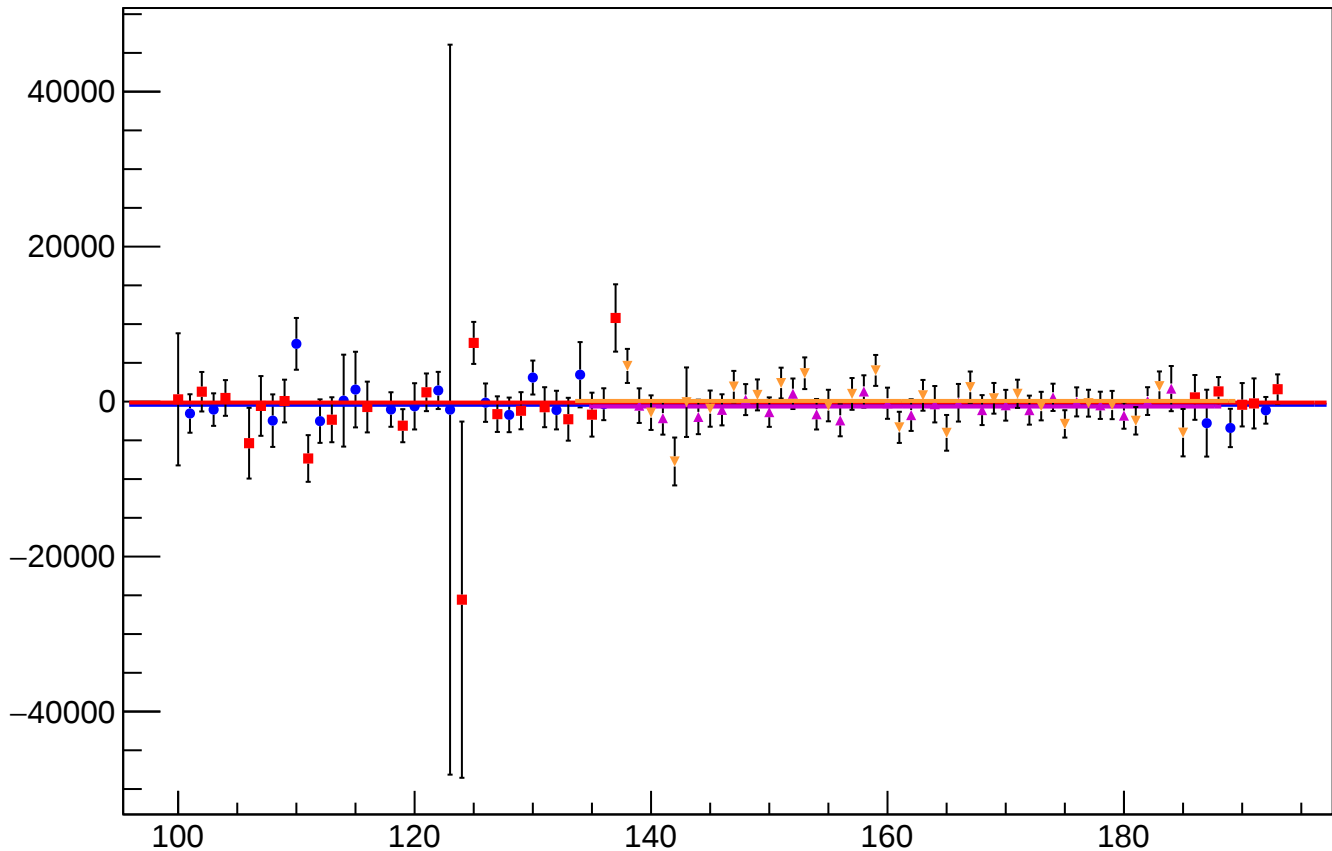
Right: 3320.526 $\pm$ 0.607 χ^2 /NDF: 5052010.0/43

In: 4280.407 $\pm$ 0.641 χ^2 /NDF:6243510.5/42

Out: 4277.488 $\pm$ 0.612 χ^2 /NDF:6690981.6/48

All: 4278.881 $\pm$ 0.443 χ^2 /NDF: 12934502.9/95

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -413.978 ± 594.398 χ^2/NDF : 13.4/19

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -124.472 ± 560.699 χ^2/NDF : 29.0/23

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

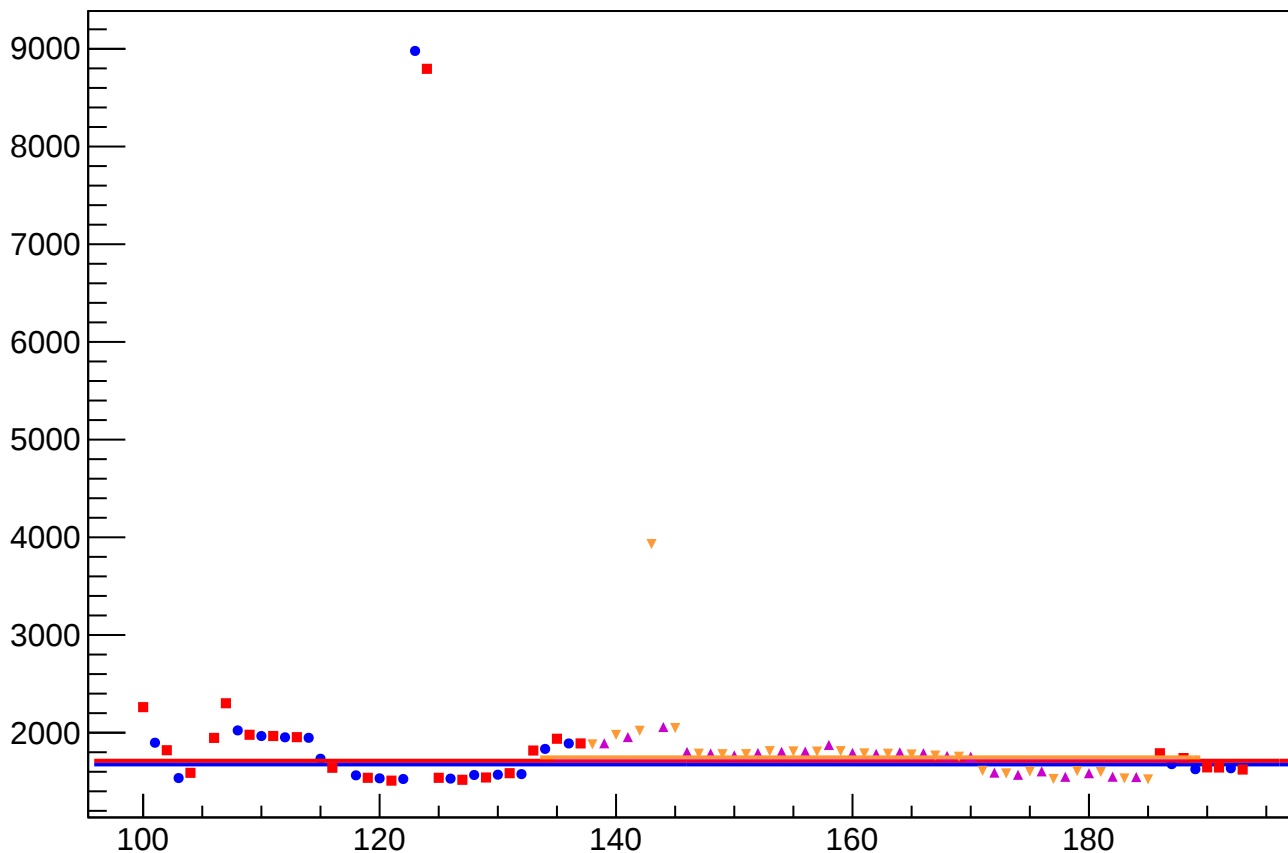
Right: -260.786 ± 407.867 χ^2/NDF : 42.5/43

In: -565.453 ± 341.724 χ^2/NDF : 19.7/42

Out: 12.453 ± 331.761 χ^2/NDF : 65.1/48

All: -267.952 ± 238.035 χ^2/NDF : 86.2/91

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1675.381+/-0.420 χ^2/NDF : 196242.9/19

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1713.067+/-0.395 χ^2/NDF : 401387.7/23

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

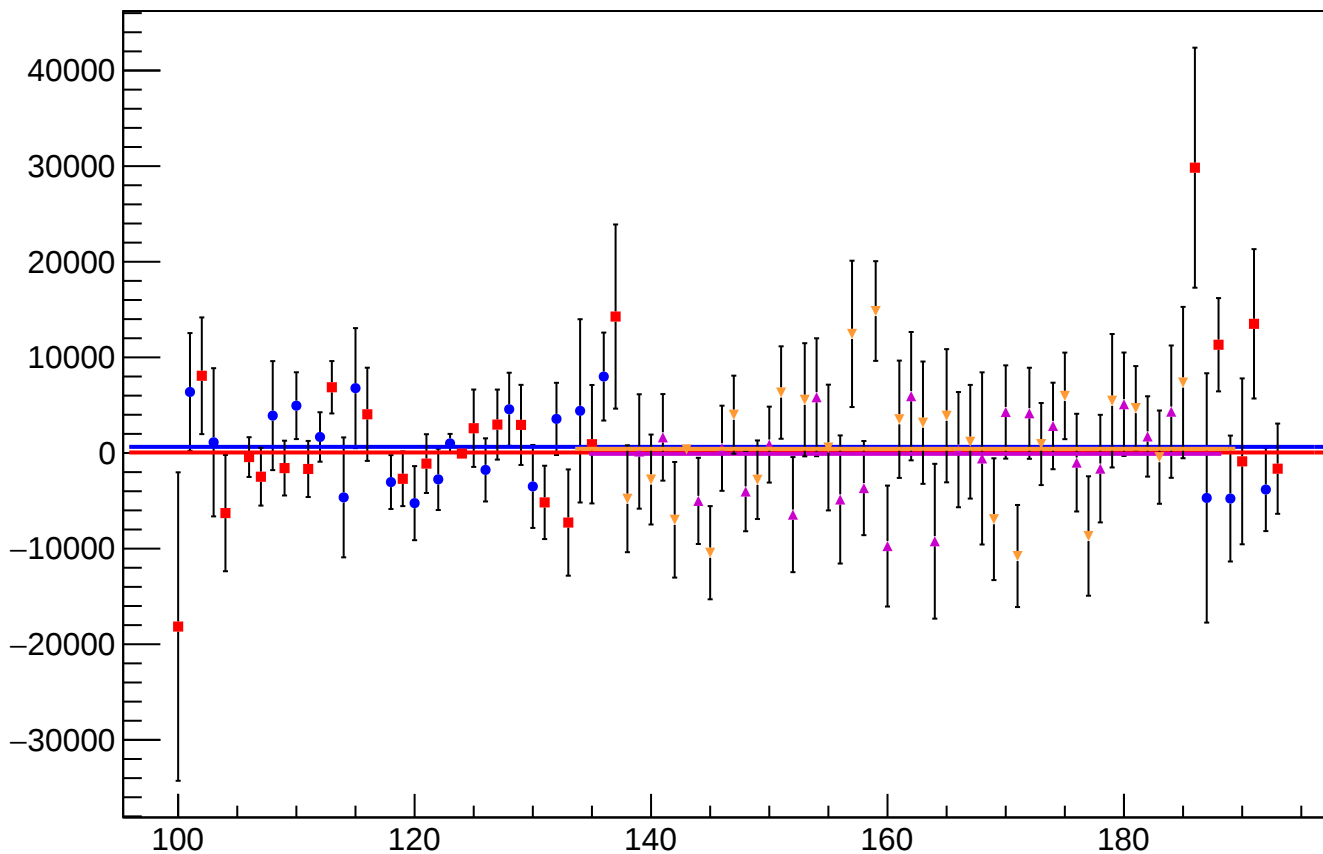
Right: 1695.381+/-0.288 χ^2/NDF : 601897.4/43

In: 1715.656+/-0.242 χ^2/NDF : 416725.5/42

Out: 1735.280+/-0.234 χ^2/NDF : 1104450.5/48

All: 1725.769+/-0.168 χ^2/NDF : 1524574.7/91

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 642.132 $\pm$ 692.802 χ^2 /NDF: 17.5/19

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: 53.918 $\pm$ 354.535 χ^2 /NDF: 34.9/23

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

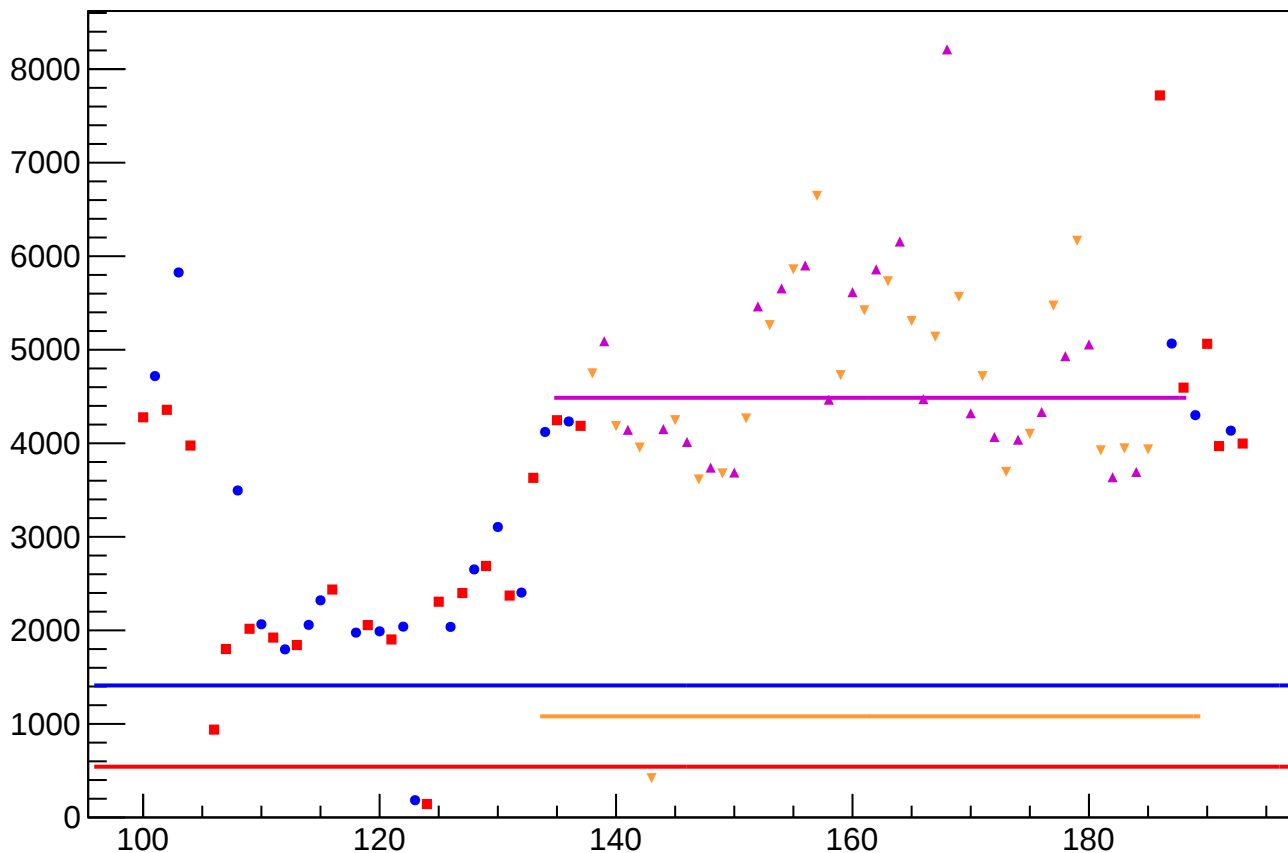
Right: 175.990 $\pm$ 315.610 χ^2 /NDF: 53.0/43

In: 433.220 $\pm$ 585.436 χ^2 /NDF:31.3/42

Out: 206.625 $\pm$ 276.150 χ^2 /NDF:69.3/48

All: 247.866 $\pm$ 249.759 χ^2 /NDF: 100.7/91

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1411.184 $\pm$ 0.490

χ^2/NDF : 7891662.9/19

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right Out: 542.618 $\pm$ 0.251

χ^2/NDF : 14212078.7/23

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: 722.872 $\pm$ 0.223

χ^2/NDF : 24594892.2/43

In: 2290.529 $\pm$ 0.414

χ^2/NDF : 20341866.7/42

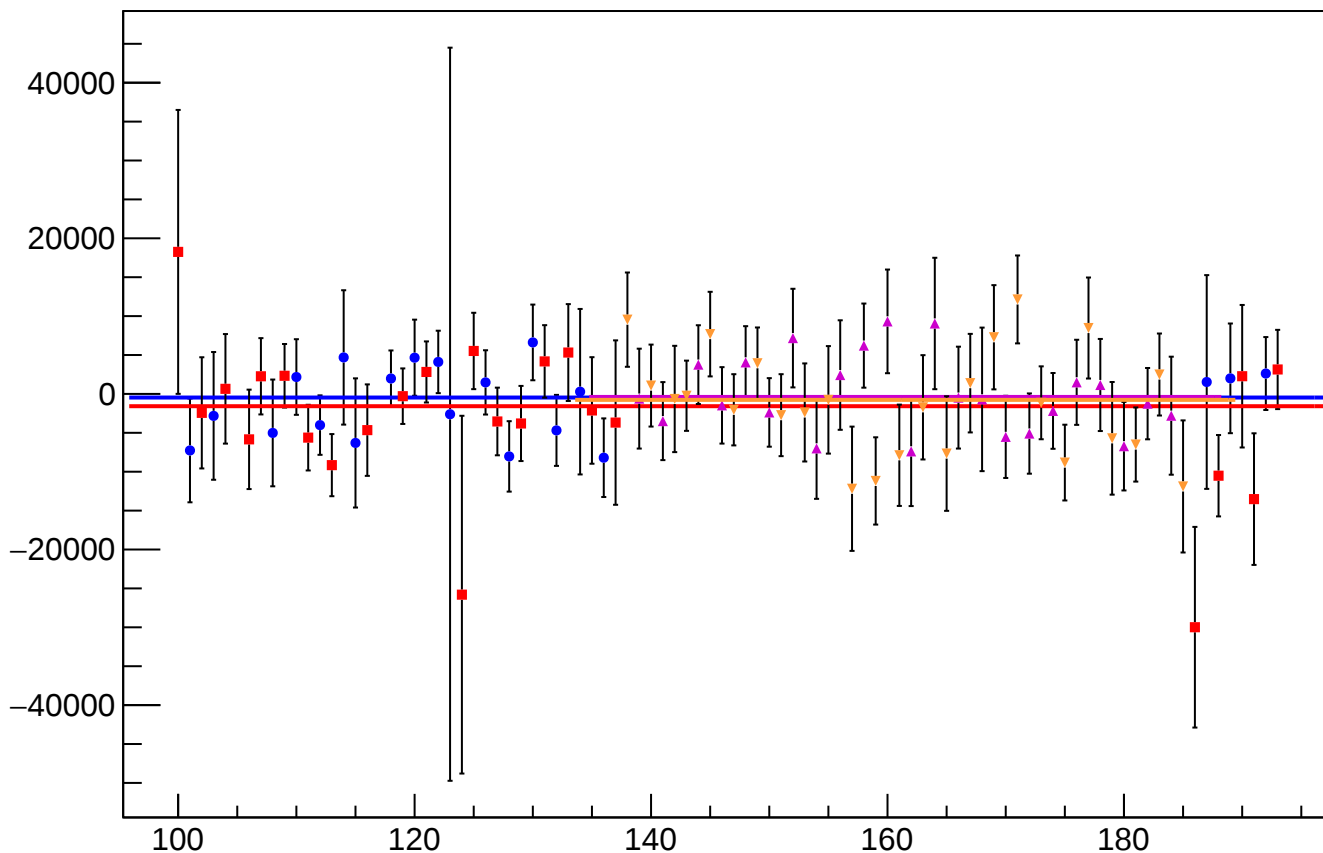
Out: 754.366 $\pm$ 0.195

χ^2/NDF : 40482270.7/48

All: 1033.955 $\pm$ 0.177

χ^2/NDF : 72088228.8/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -465.377 $\pm$ 1199.241 χ^2 /NDF: 15.3/19

Left Out: -766.008 $\pm$ 1147.372 χ^2 /NDF:29.9/24

Right Out: -1579.918 $\pm$ 1112.299 χ^2 /NDF: 26.7/23

Left In: -388.944 $\pm$ 1186.300 χ^2 /NDF:14.2/22

Left: -583.764 $\pm$ 824.733 χ^2 /NDF: 44.2/47

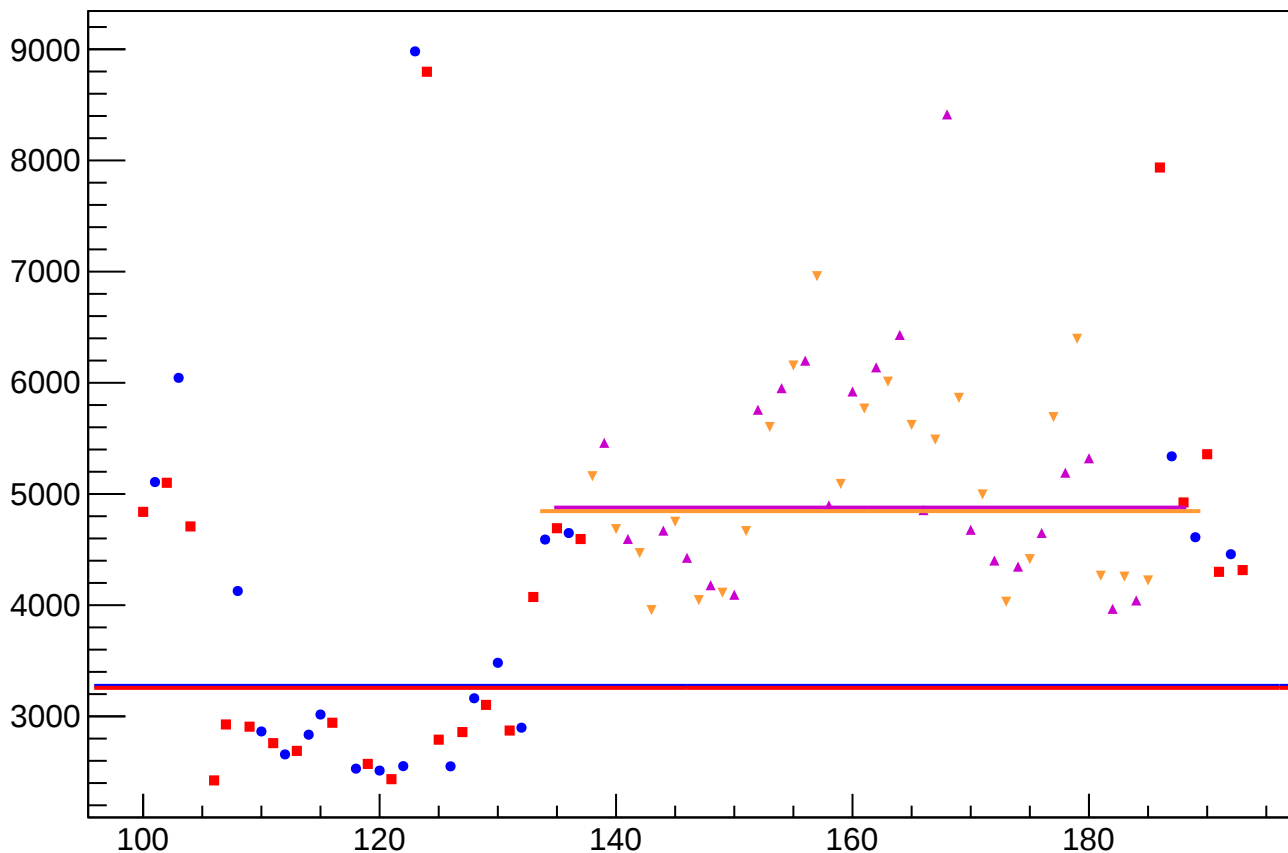
Right: -1064.509 $\pm$ 815.520 χ^2 /NDF: 42.5/43

In: -426.746 $\pm$ 843.379 χ^2 /NDF:29.5/42

Out: -1185.593 $\pm$ 798.626 χ^2 /NDF:56.9/48

All: -826.837 $\pm$ 579.890 χ^2 /NDF: 86.8/91

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3274.054+/-0.848 χ^2/NDF : 1214556.6/19

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3256.201+/-0.778 χ^2/NDF : 1560487.3/23

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

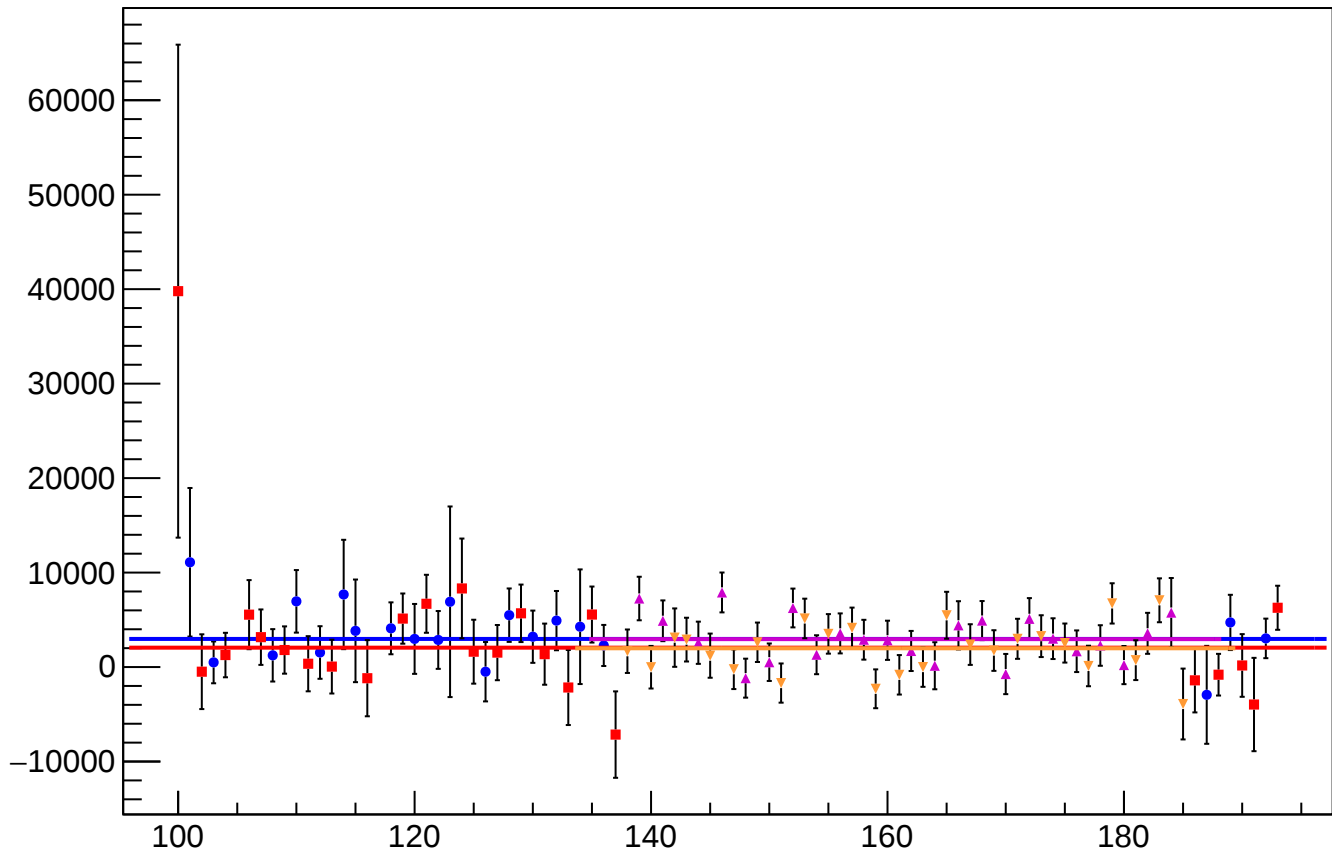
Right: 3264.360+/-0.573 χ^2/NDF : 2775284.6/43

In: 4084.449+/-0.596 χ^2/NDF : 3980187.1/42

Out: 4017.635+/-0.562 χ^2/NDF : 4469565.4/48

All: 4049.034+/-0.409 χ^2/NDF : 8456406.0/91

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2976.416+/-700.783 χ^2/NDF : 9.6/19

Left Out: 1985.469+/-443.190 χ^2/NDF :32.4/24

Right Out: 2052.805+/-642.385 χ^2/NDF : 26.1/23

Left In: 2955.900+/-454.551 χ^2/NDF :28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

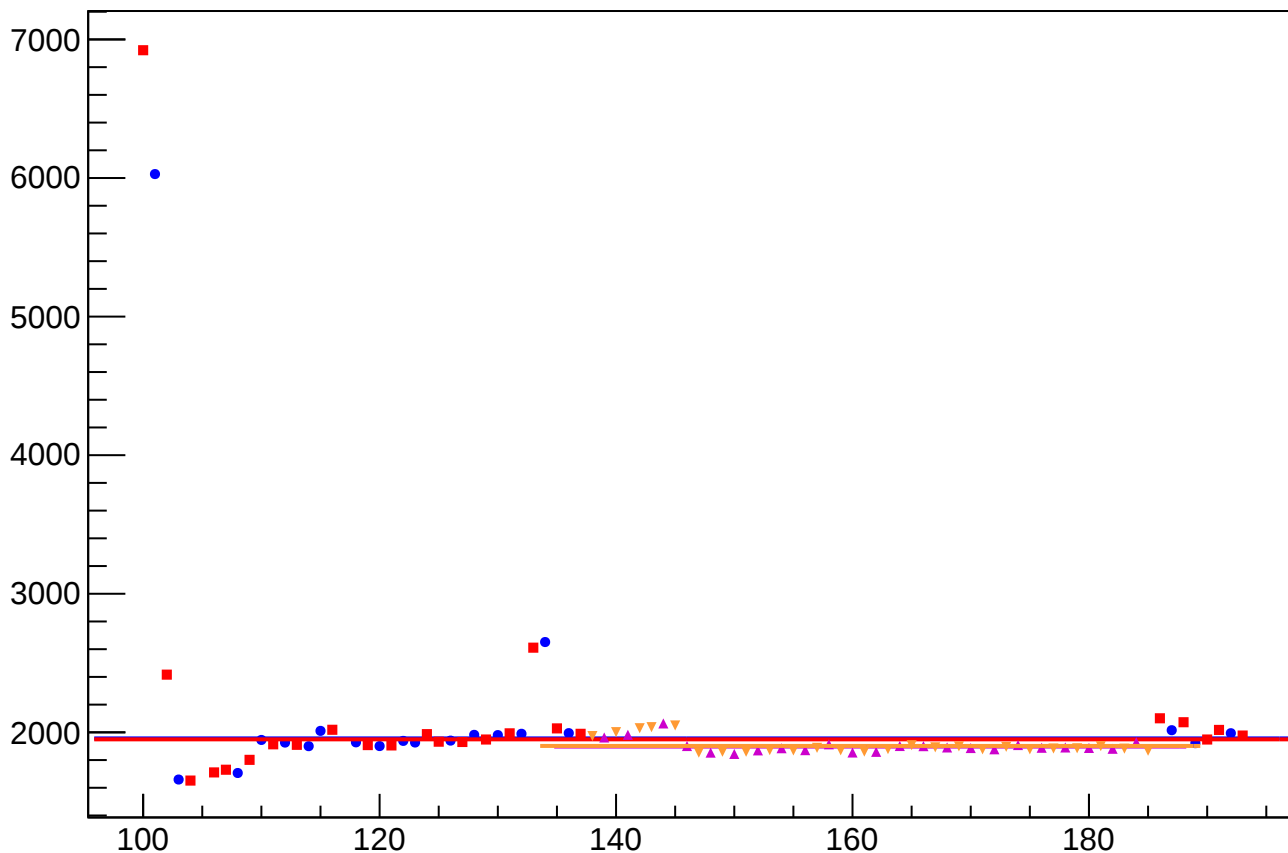
Right: 2474.530+/-473.537 χ^2/NDF : 36.7/43

In: 2961.976+/-381.353 χ^2/NDF :38.1/42

Out: 2007.184+/-364.795 χ^2/NDF :58.5/48

All: 2463.402+/-263.609 χ^2/NDF : 99.9/91

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1956.188+/-0.496 χ^2/NDF : 618621.5/19

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1949.402+/-0.453 χ^2/NDF : 230790.0/23

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

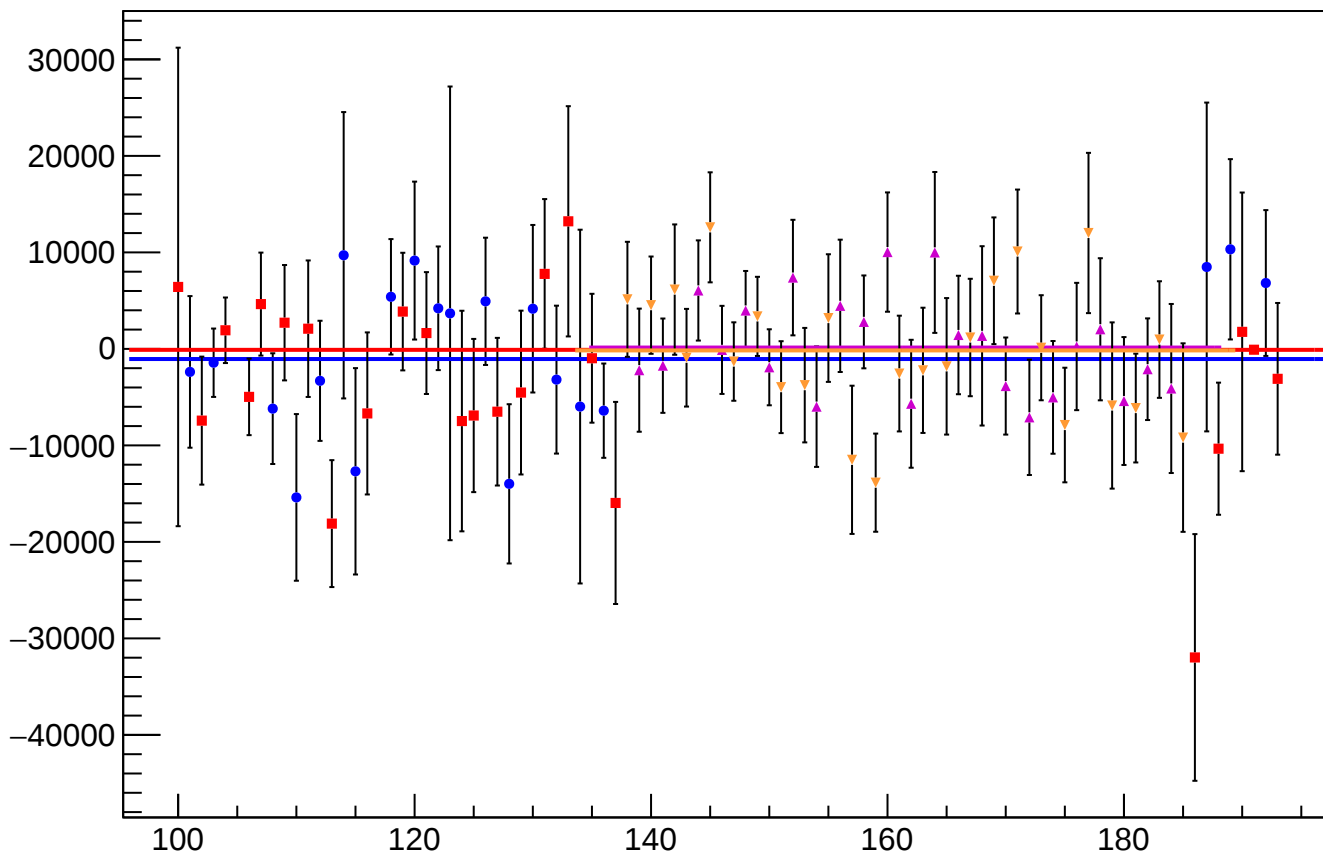
Right: 1952.494+/-0.335 χ^2/NDF : 849513.6/43

In: 1914.848+/-0.270 χ^2/NDF : 649689.4/42

Out: 1917.244+/-0.258 χ^2/NDF : 268668.9/48

All: 1916.100+/-0.186 χ^2/NDF : 918399.6/91

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1050.617 $\pm$ 1594.875 χ^2 /NDF: 16.7/19

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

Right Out: -98.606 $\pm$ 109.614 χ^2 /NDF: 28.2/23

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

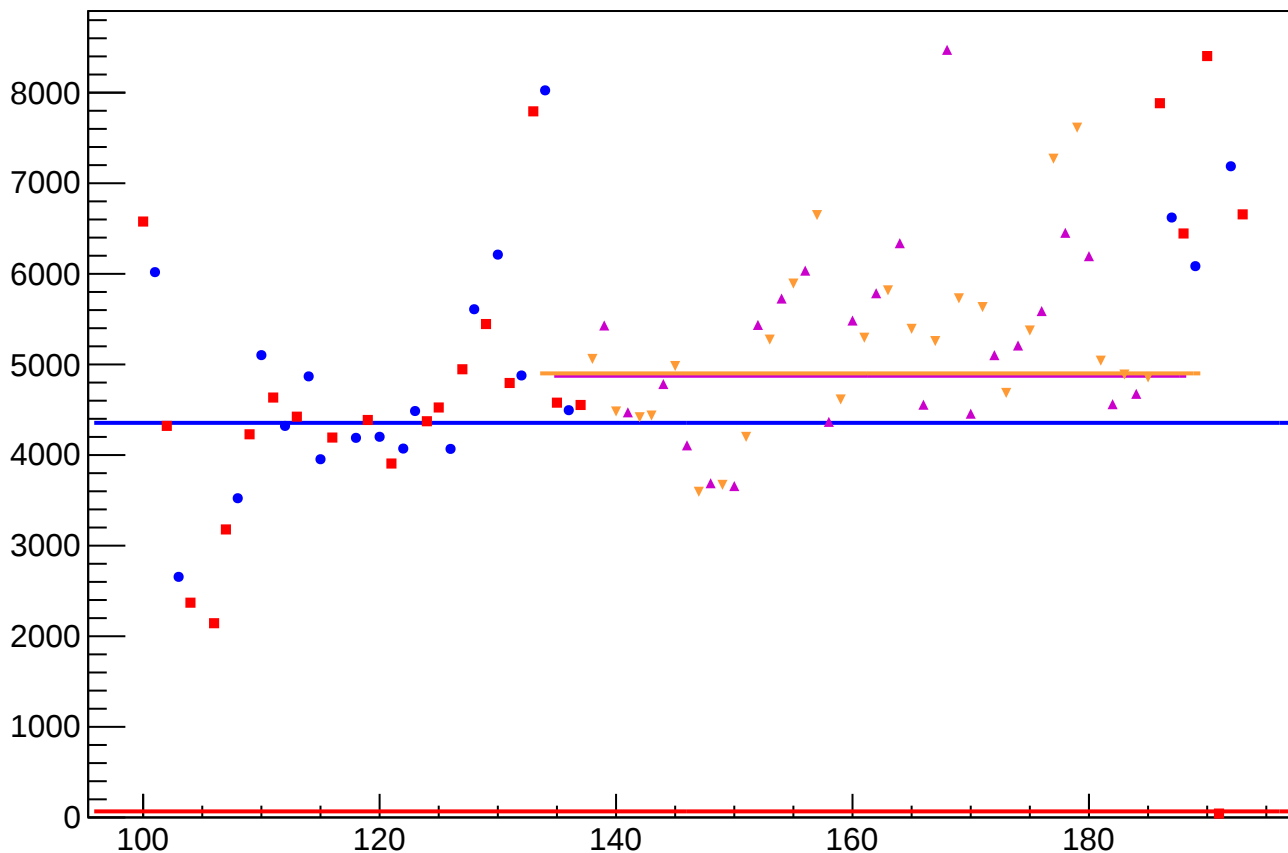
Right: -103.082 $\pm$ 109.356 χ^2 /NDF: 45.3/43

In: -286.846 $\pm$ 954.222 χ^2 /NDF:31.8/42

Out: -99.122 $\pm$ 109.133 χ^2 /NDF:57.7/48

All: -101.546 $\pm$ 108.426 χ^2 /NDF: 89.6/91

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4355.405+/-1.128 χ^2/NDF : 1236211.1/19

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 66.985+/-0.078 χ^2/NDF : 18066427.7/23

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

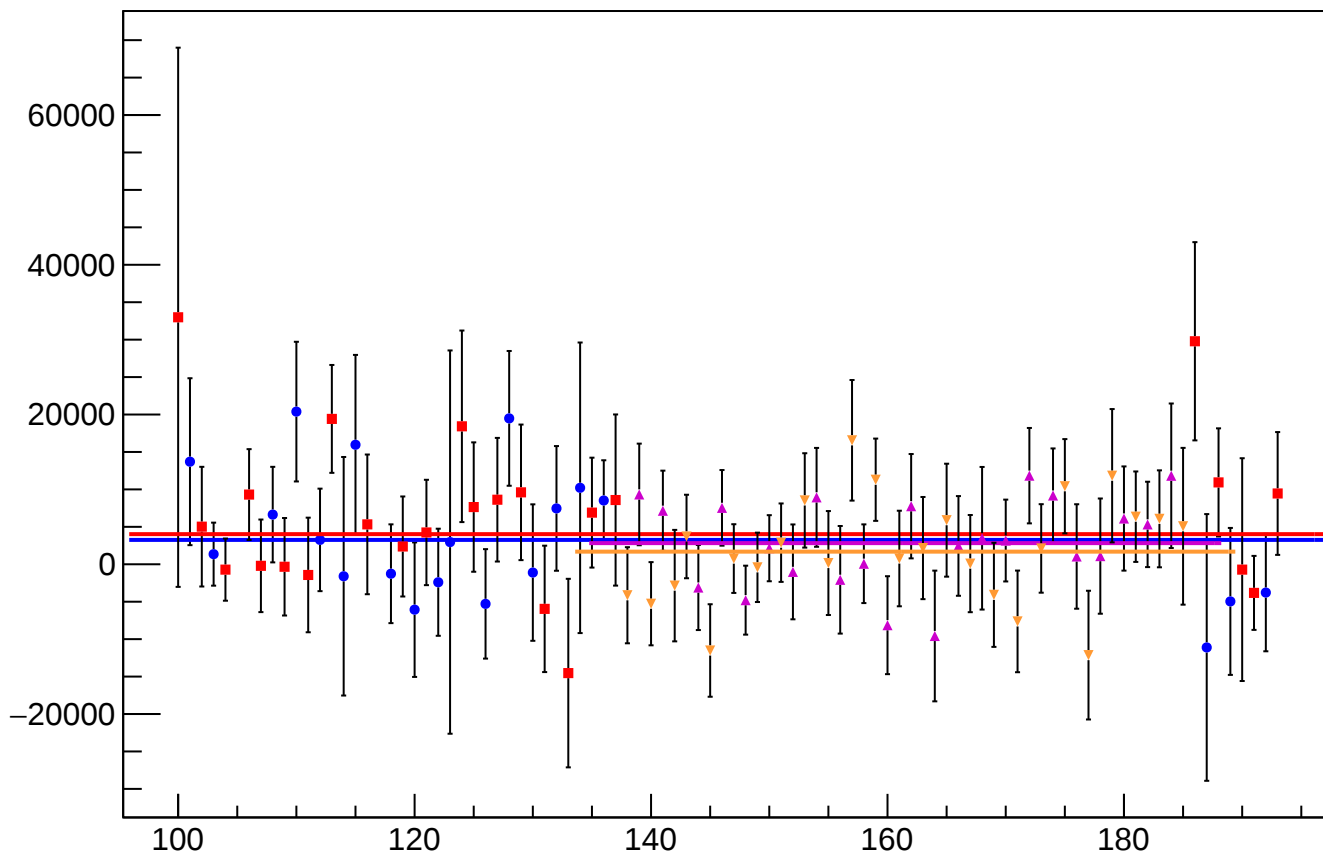
Right: 87.147+/-0.077 χ^2/NDF : 33694768.5/43

In: 4689.073+/-0.675 χ^2/NDF : 2601757.4/42

Out: 109.346+/-0.077 χ^2/NDF : 53291745.9/48

All: 168.476+/-0.077 χ^2/NDF : 101367872.4/95

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3254.139+/-1784.966 χ^2/NDF : 16.5/19

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4023.425+/-1543.077 χ^2/NDF : 22.6/23

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

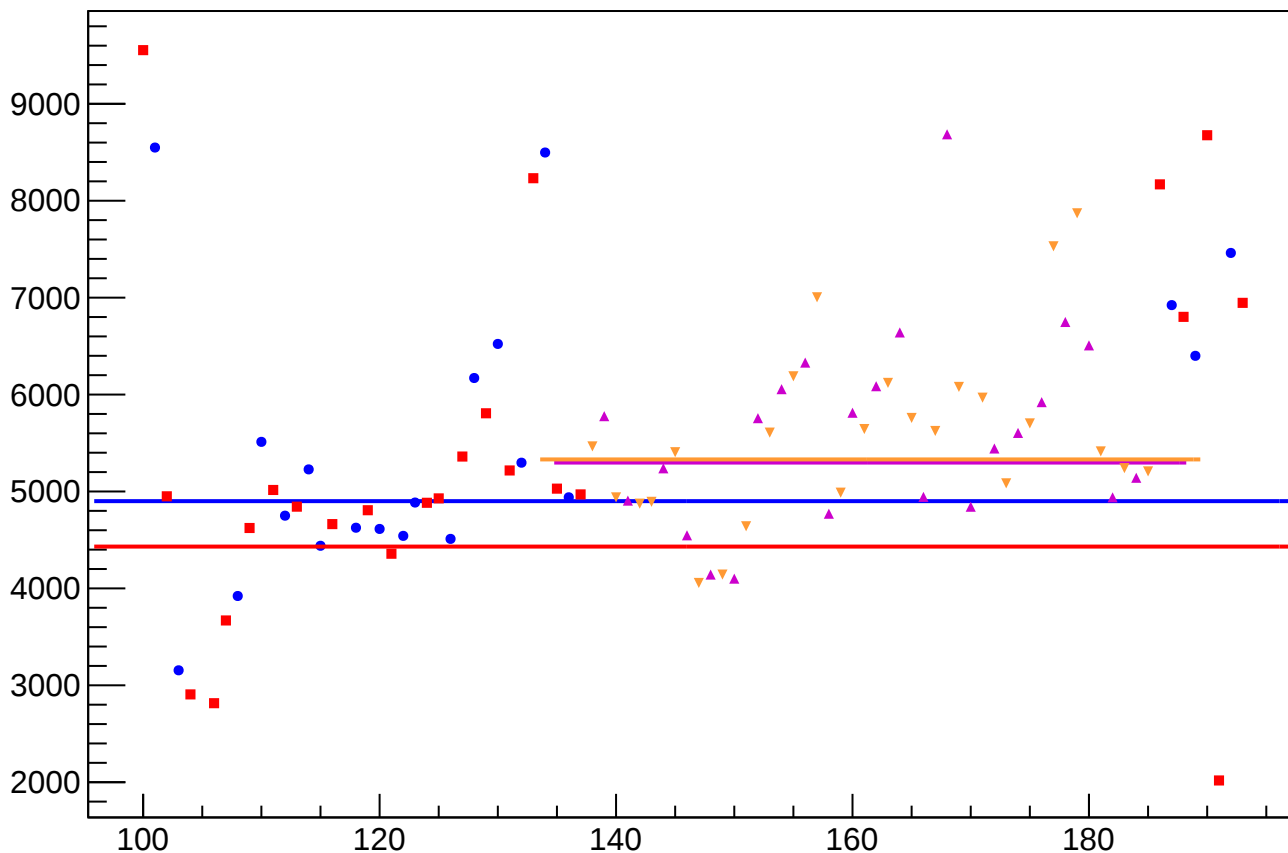
Right: 3694.402+/-1167.346 χ^2/NDF : 39.1/43

In: 2971.393+/-1044.693 χ^2/NDF : 34.5/42

Out: 2622.832+/-976.732 χ^2/NDF : 49.3/48

All: 2785.407+/-713.471 χ^2/NDF : 83.9/91

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4900.275 ± 1.262 $\chi^2/\text{NDF}: 1097338.5/19$

Left Out: 5330.725 ± 0.892 $\chi^2/\text{NDF}: 868061.7/24$

Right Out: 4431.429 ± 1.086 $\chi^2/\text{NDF}: 2039988.6/23$

Left In: 5298.329 ± 0.911 $\chi^2/\text{NDF}: 956021.6/22$

Left: 5314.867 ± 0.637 $\chi^2/\text{NDF}: 1824728.8/47$

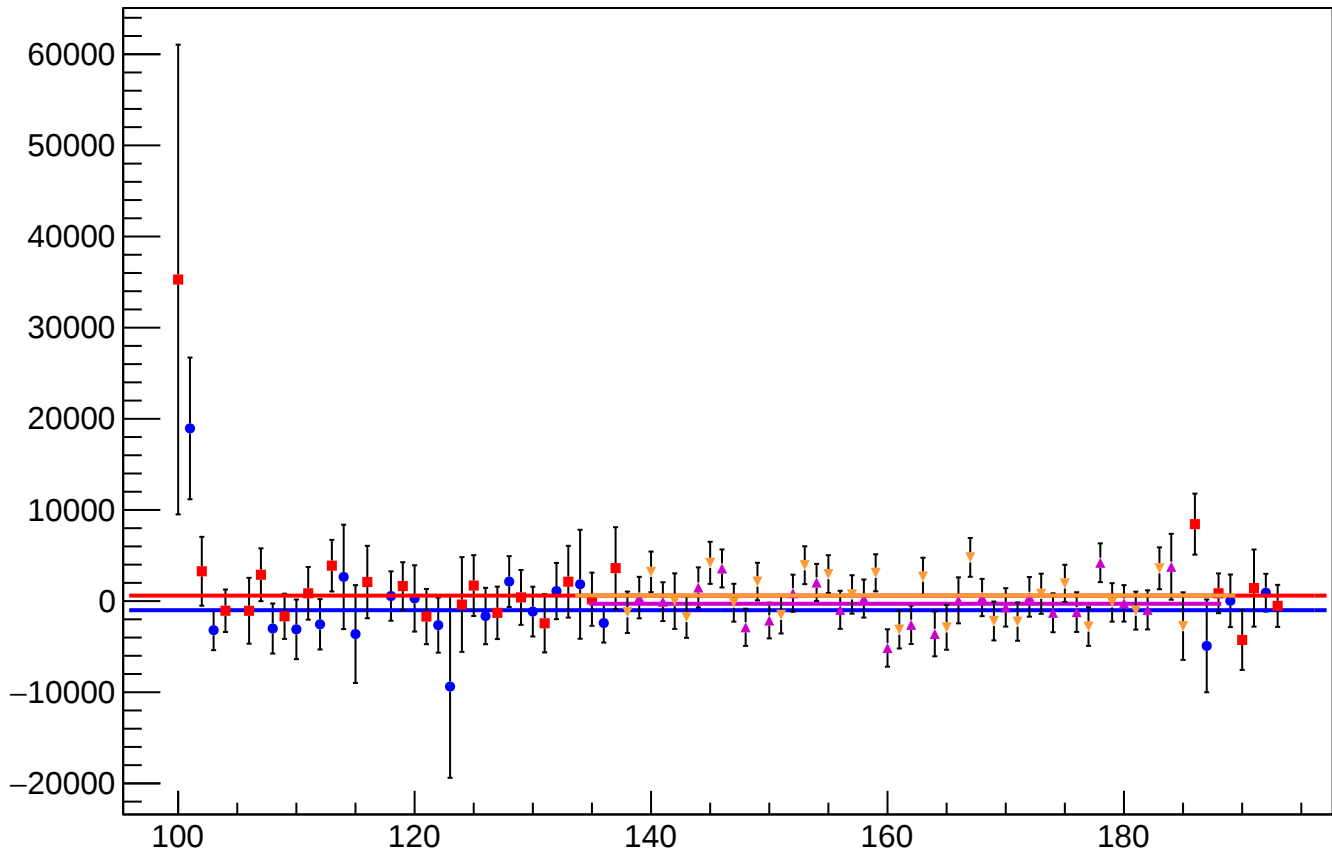
Right: 4630.890 ± 0.823 $\chi^2/\text{NDF}: 3216608.6/43$

In: 5161.978 ± 0.739 $\chi^2/\text{NDF}: 2118751.7/42$

Out: 4968.408 ± 0.689 $\chi^2/\text{NDF}: 3317445.9/48$

All: 5058.513 ± 0.504 $\chi^2/\text{NDF}: 5472899.2/91$

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -998.340+/-691.844 χ^2/NDF : 15.0/19

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 602.867+/-632.495 χ^2/NDF : 16.8/23

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

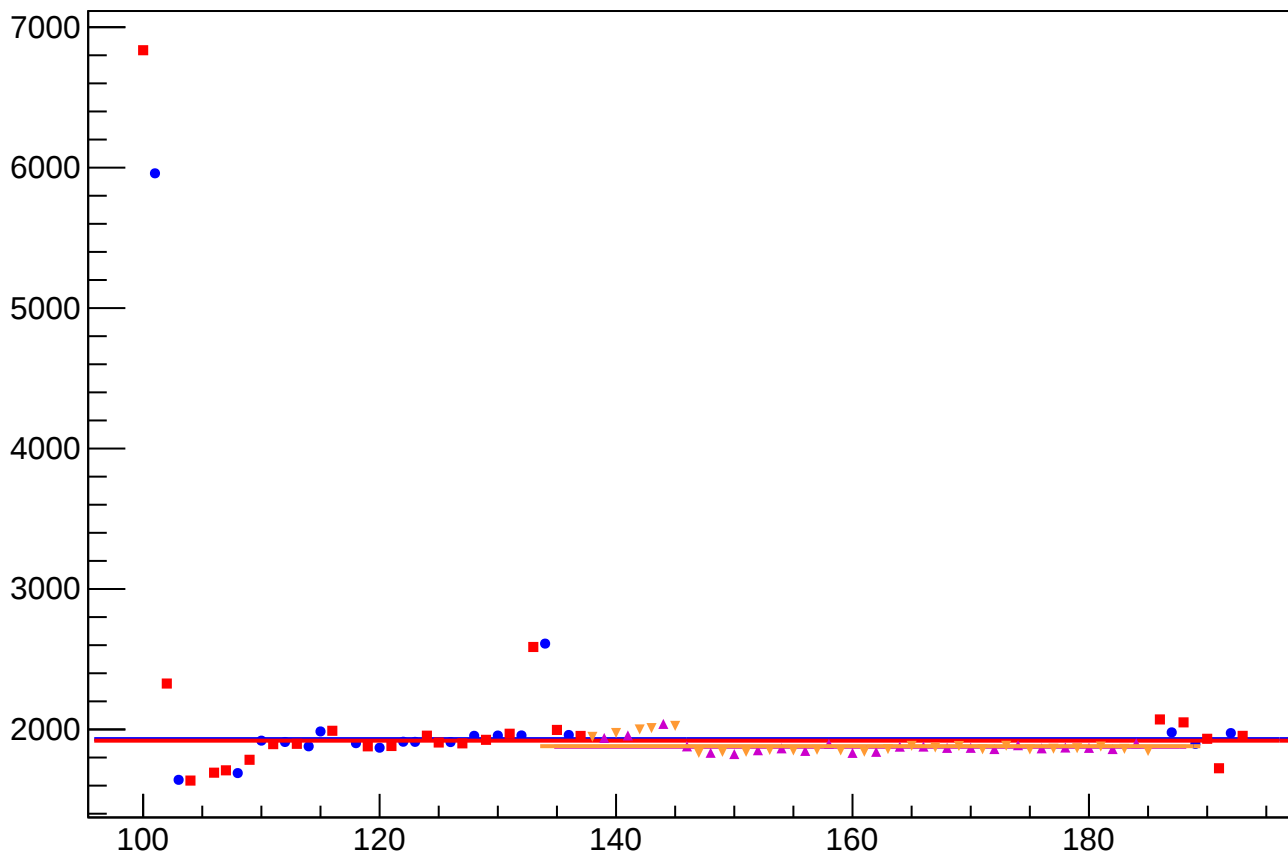
Right: -126.125+/-466.816 χ^2/NDF : 34.7/43

In: -502.420+/-376.974 χ^2/NDF : 39.3/42

Out: 609.250+/-360.235 χ^2/NDF : 49.5/48

All: 78.643+/-260.441 χ^2/NDF : 93.4/91

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1931.251 $\pm$ 0.489 χ^2 /NDF: 617282.7/19

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1920.174 $\pm$ 0.446 χ^2 /NDF: 228466.7/23

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

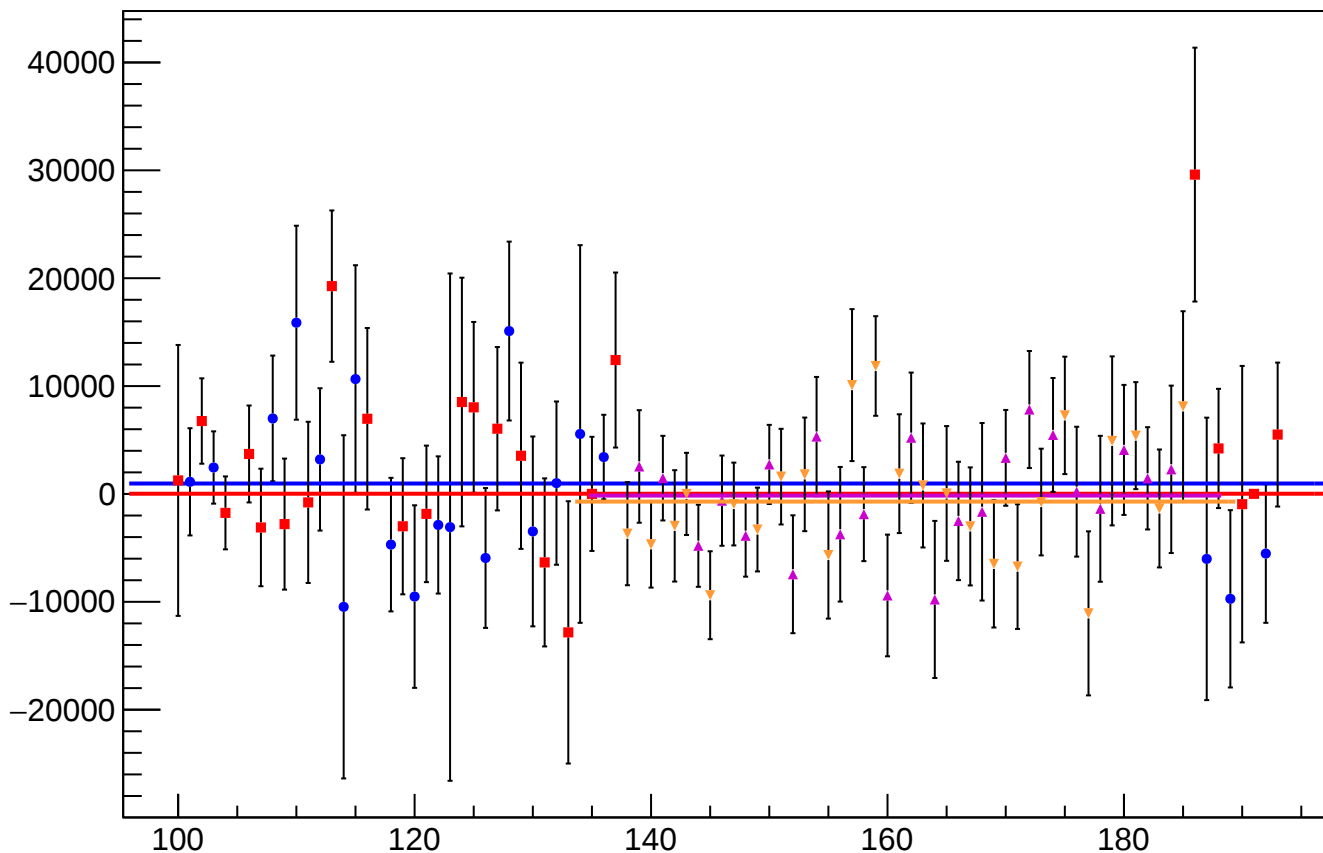
Right: 1925.208 $\pm$ 0.330 χ^2 /NDF: 846029.1/43

In: 1892.886 $\pm$ 0.267 χ^2 /NDF: 646529.9/42

Out: 1893.607 $\pm$ 0.255 χ^2 /NDF: 262368.4/48

All: 1893.263 $\pm$ 0.184 χ^2 /NDF: 908902.1/91

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 967.077 ± 1481.143 $\chi^2/\text{NDF}: 16.0/19$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 19.785 ± 85.834 $\chi^2/\text{NDF}: 27.0/23$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

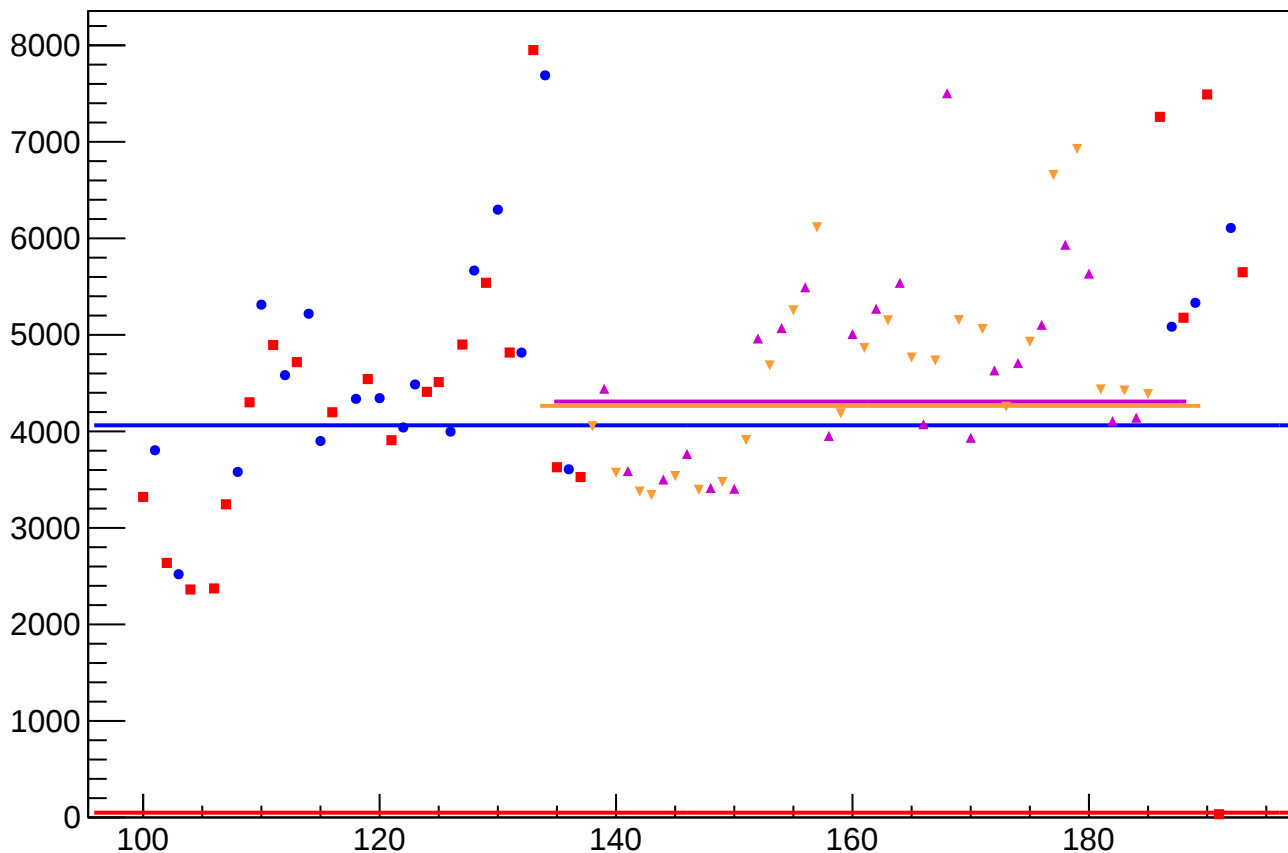
Right: 22.955 ± 85.690 $\chi^2/\text{NDF}: 43.4/43$

In: 225.027 ± 858.573 $\chi^2/\text{NDF}: 33.3/42$

Out: 14.646 ± 85.530 $\chi^2/\text{NDF}: 54.7/48$

All: 16.713 ± 85.109 $\chi^2/\text{NDF}: 88.0/91$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4062.879+/-1.047 χ^2/NDF : 1111685.7/19

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 49.566+/-0.061 χ^2/NDF : 18150932.8/23

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

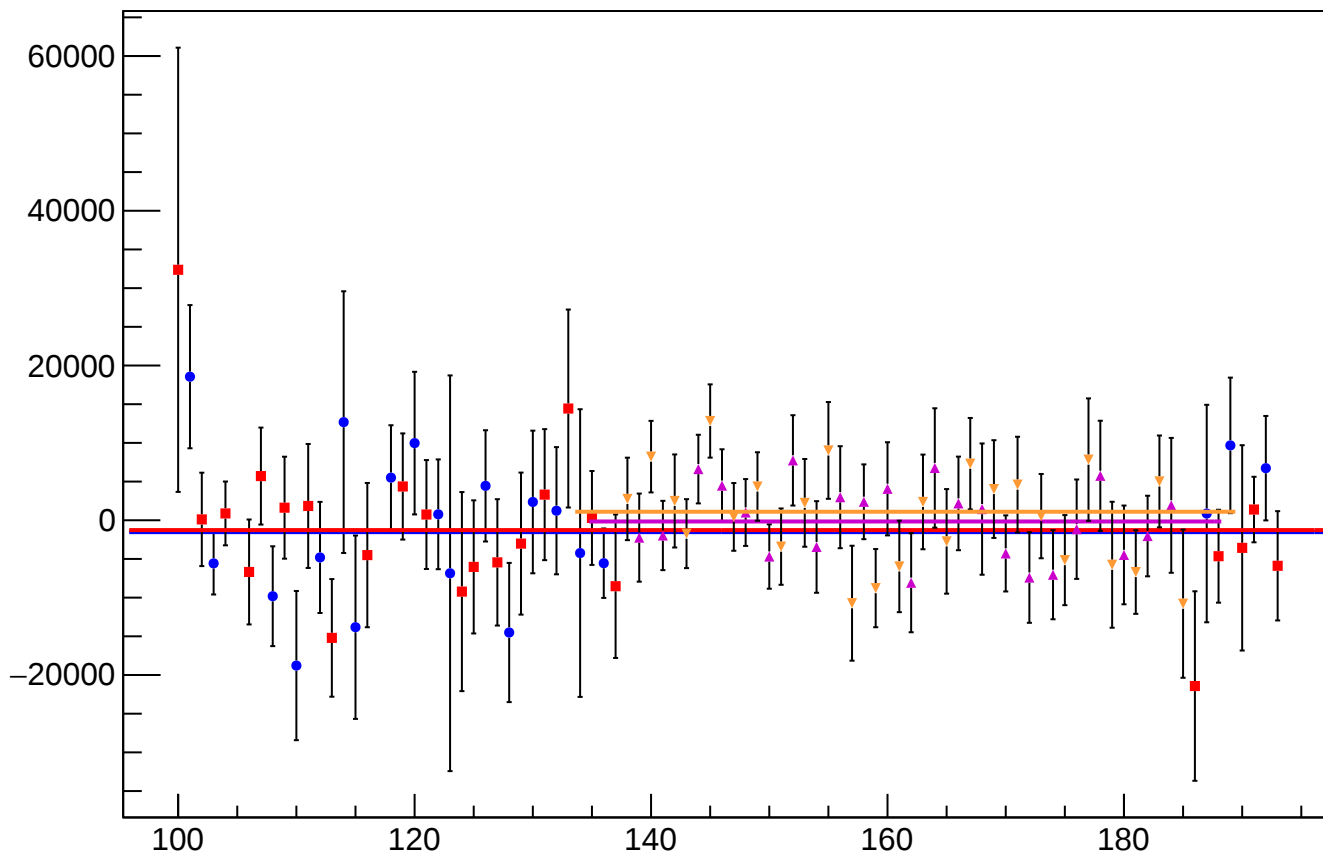
Right: 62.999+/-0.061 χ^2/NDF : 33897392.2/43

In: 4226.322+/-0.607 χ^2/NDF : 2453497.5/42

Out: 79.335+/-0.060 χ^2/NDF : 53567332.7/48

All: 120.086+/-0.060 χ^2/NDF : 102221912.1/9

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1533.719+/-1704.608 χ^2/NDF : 22.4/19

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1271.152+/-1466.892 χ^2/NDF : 15.5/23

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

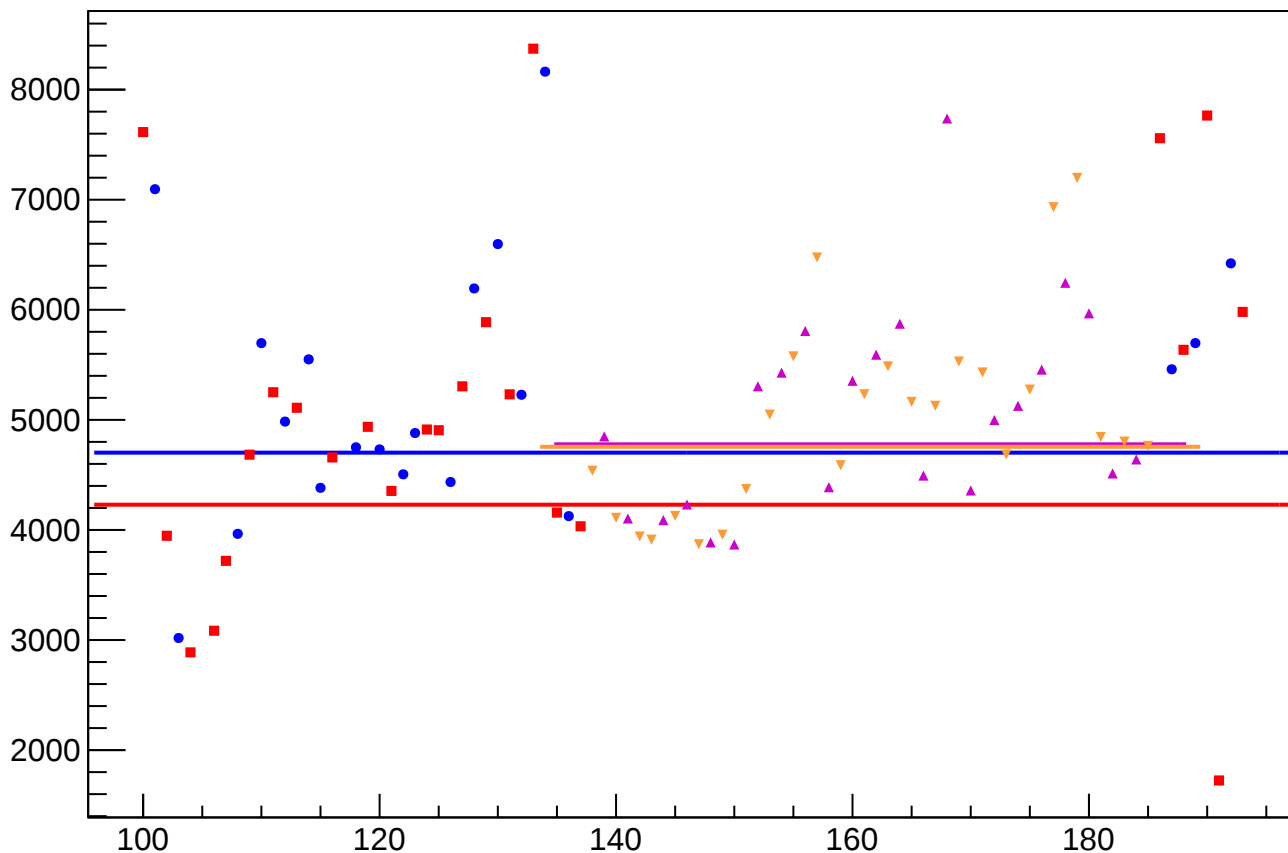
Right: -1382.865+/-1111.876 χ^2/NDF : 37.9/43

In: -594.676+/-959.859 χ^2/NDF : 38.4/42

Out: 221.601+/-893.525 χ^2/NDF : 45.7/48

All: -157.360+/-654.012 χ^2/NDF : 84.5/91

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4702.207+/-1.205 χ^2/NDF : 957696.6/19

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

Right Out: 4229.393+/-1.033 χ^2/NDF : 1999324.3/23

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

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

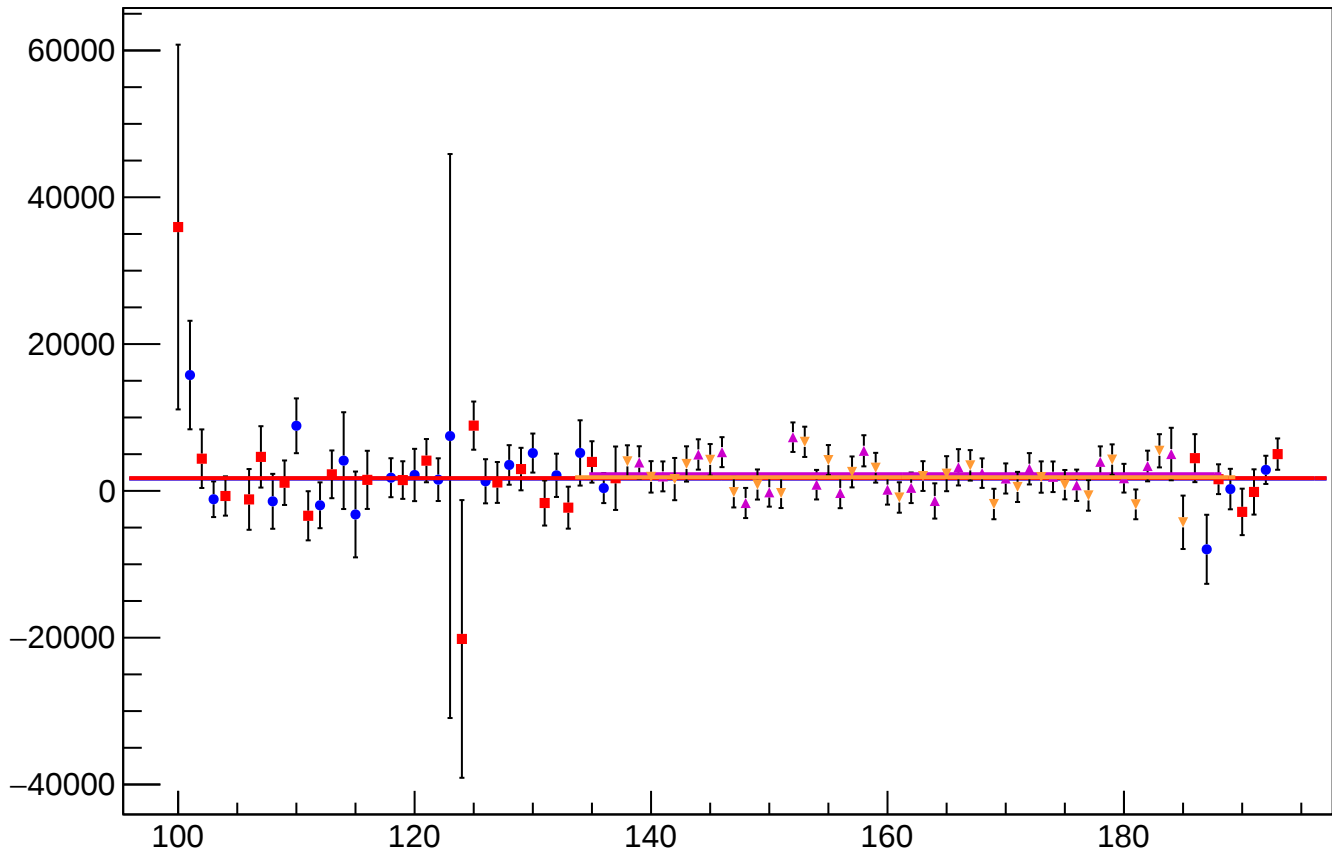
Right: 4429.589+/-0.784 χ^2/NDF : 3045741.4/43

In: 4753.852+/-0.679 χ^2/NDF : 1910676.1/42

Out: 4559.190+/-0.631 χ^2/NDF : 3115245.5/48

All: 4649.412+/-0.462 χ^2/NDF : 5070054.5/91

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1667.126+/-695.591 χ^2/NDF : 19.7/19

Left Out: 1856.570+/-430.977 χ^2/NDF : 30.0/24

Right Out: 1736.075+/-638.133 χ^2/NDF : 22.9/23

Left In: 2268.464+/-441.710 χ^2/NDF : 26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

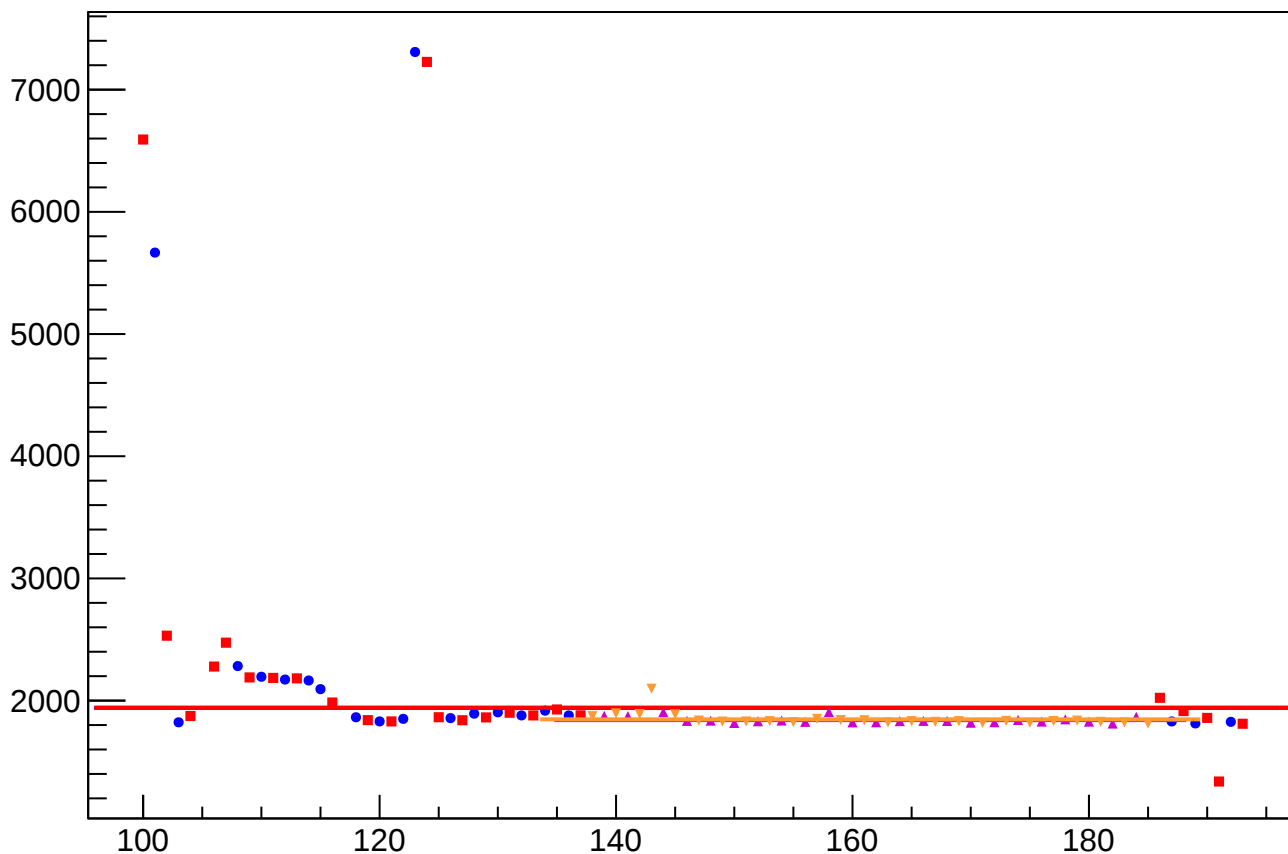
Right: 1704.565+/-470.231 χ^2/NDF : 42.6/43

In: 2095.661+/-372.882 χ^2/NDF : 47.1/42

Out: 1818.825+/-357.153 χ^2/NDF : 52.9/48

All: 1951.281+/-257.927 χ^2/NDF : 100.3/91

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1941.124+/-0.492 χ^2/NDF : 615899.7/19

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

Right Out: 1941.467+/-0.451 χ^2/NDF : 452379.1/23

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

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

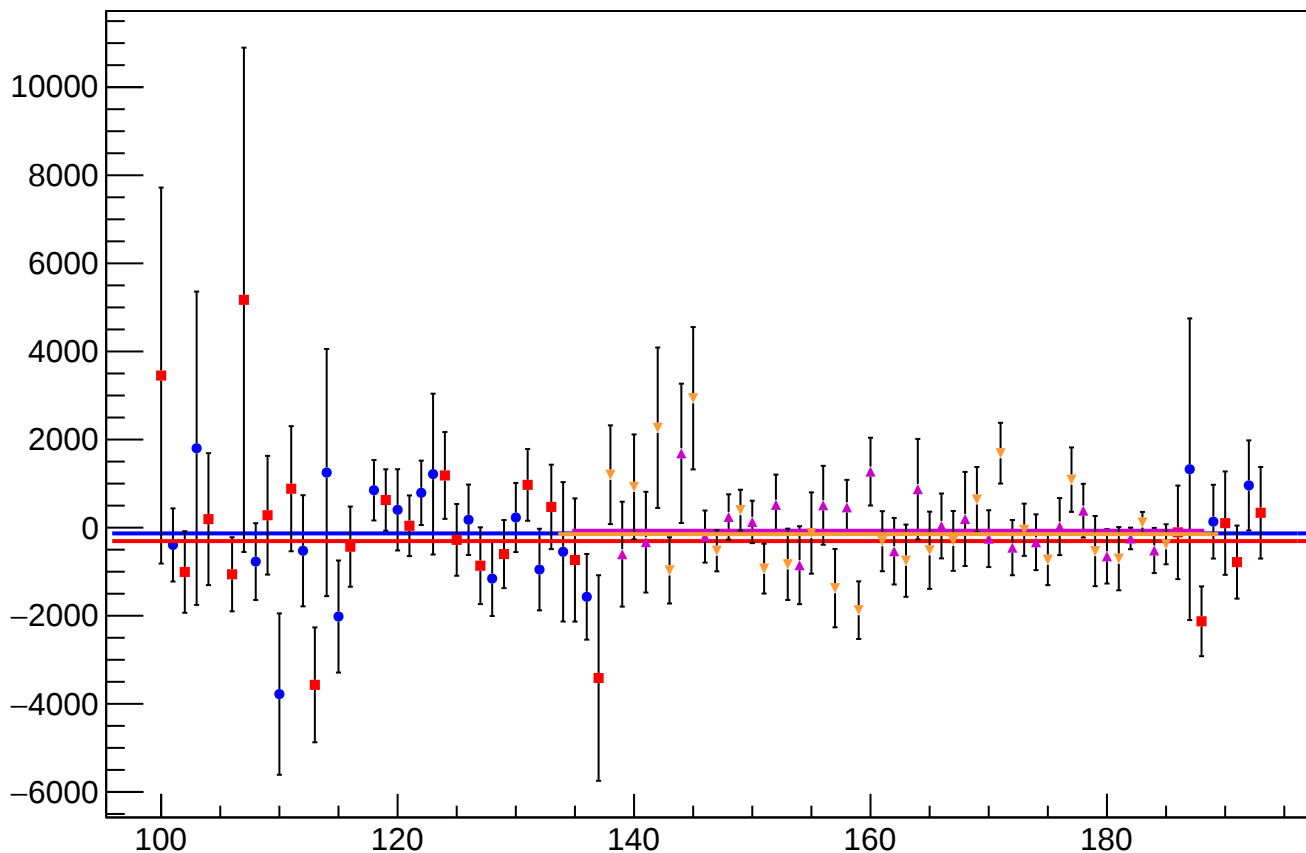
Right: 1941.310+/-0.333 χ^2/NDF : 1068279.0/43

In: 1869.445+/-0.264 χ^2/NDF : 652440.9/42

Out: 1876.318+/-0.253 χ^2/NDF : 510036.1/48

All: 1873.030+/-0.182 χ^2/NDF : 1162831.3/91

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -130.842 $\pm$ 225.561 χ^2 /NDF: 18.2/19

Left Out: -146.999 $\pm$ 121.984 χ^2 /NDF:37.7/24

Right Out: -305.220 $\pm$ 201.910 χ^2 /NDF: 26.4/23

Left In: -70.340 $\pm$ 126.373 χ^2 /NDF:12.3/22

Left: -110.024 $\pm$ 87.766 χ^2 /NDF: 50.1/47

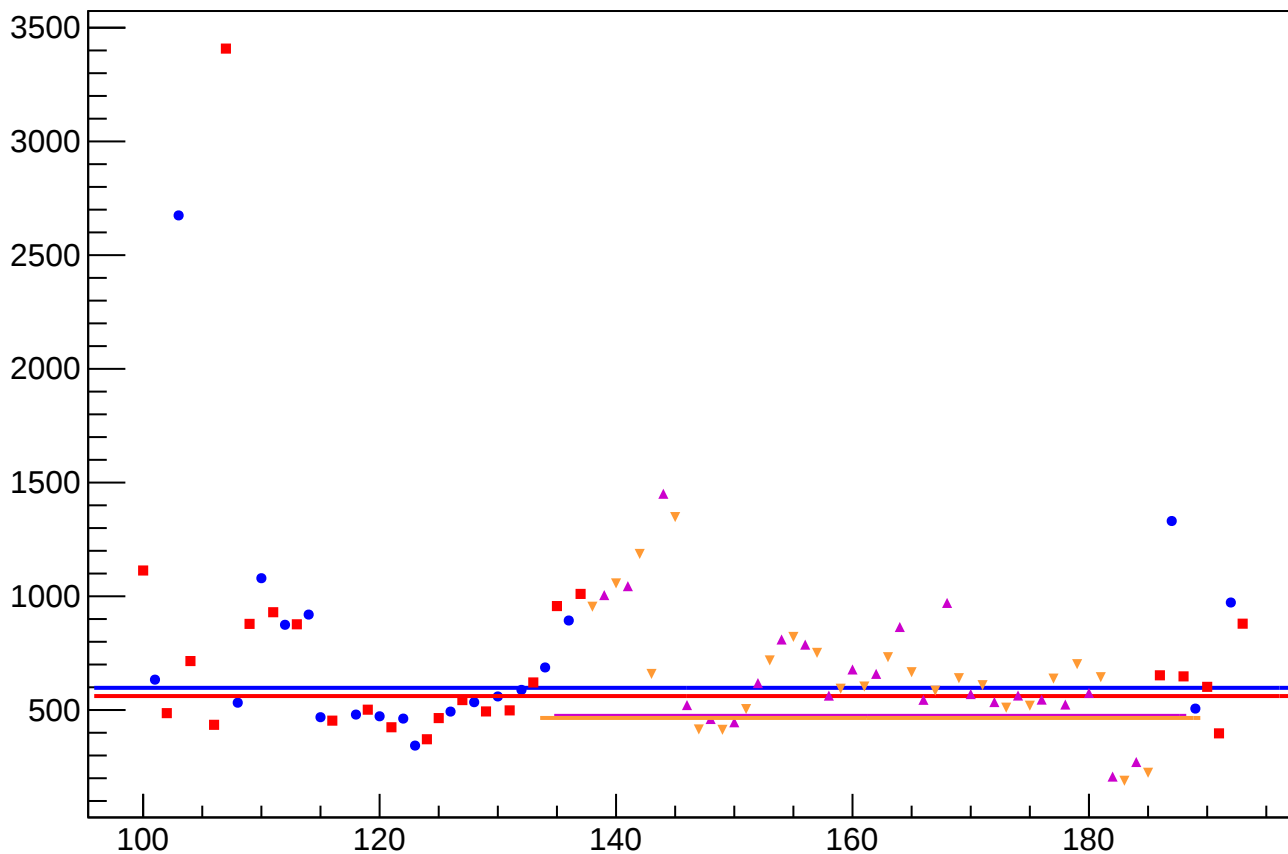
Right: -227.649 $\pm$ 150.441 χ^2 /NDF: 44.9/43

In: -84.794 $\pm$ 110.249 χ^2 /NDF:30.6/42

Out: -189.307 $\pm$ 104.409 χ^2 /NDF:64.5/48

All: -139.892 $\pm$ 75.809 χ^2 /NDF: 95.5/91

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 597.513 $\pm$ 0.159 χ^2 /NDF: 1808269.8/19

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 561.343 $\pm$ 0.143 χ^2 /NDF: 1772021.0/23

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

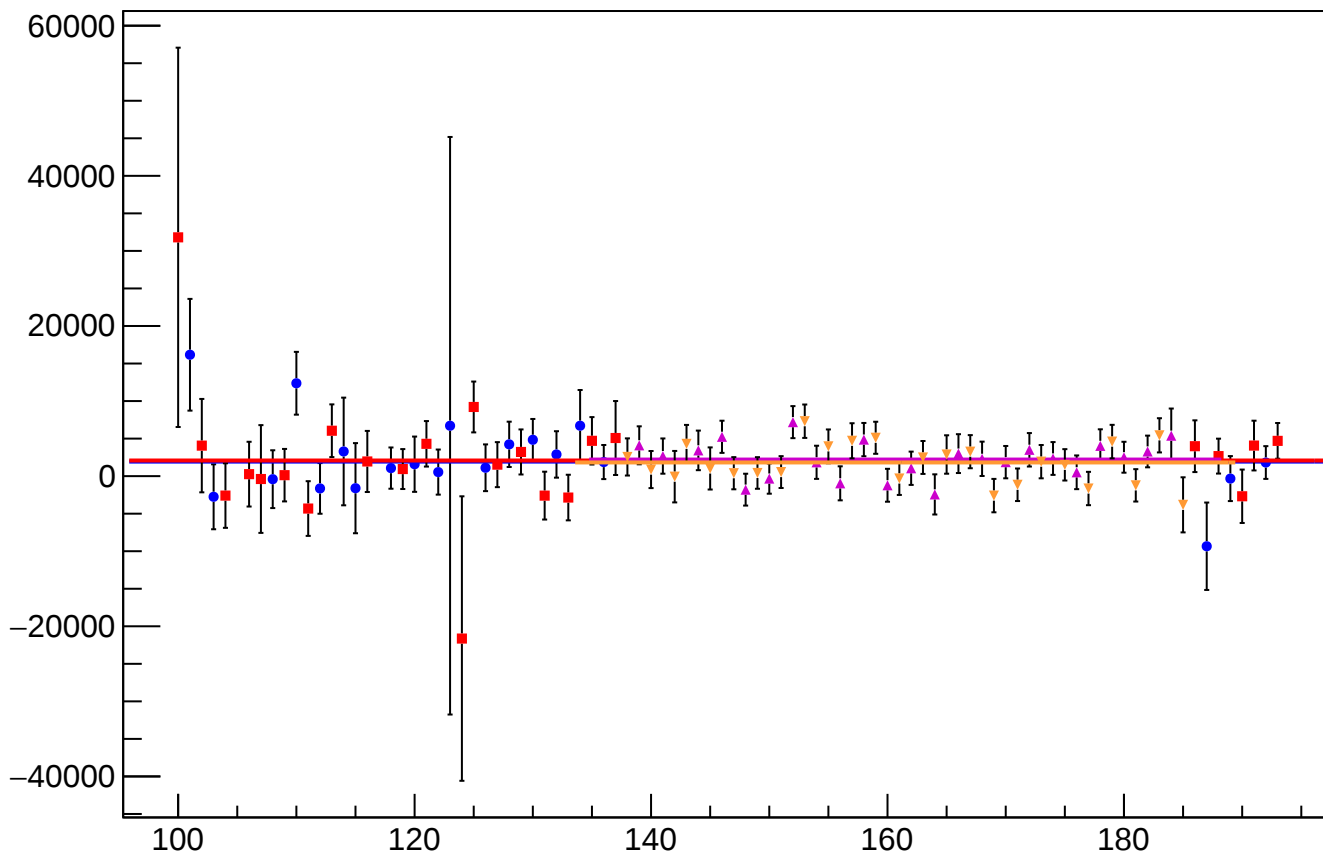
Right: 577.433 $\pm$ 0.106 χ^2 /NDF: 3608841.9/43

In: 503.707 $\pm$ 0.078 χ^2 /NDF: 8435853.3/42

Out: 490.821 $\pm$ 0.074 χ^2 /NDF: 9191196.6/48

All: 496.914 $\pm$ 0.054 χ^2 /NDF: 17641455.5/92

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1936.718+/-770.239 χ^2/NDF : 20.4/19

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2082.010+/-710.555 χ^2/NDF : 24.1/23

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

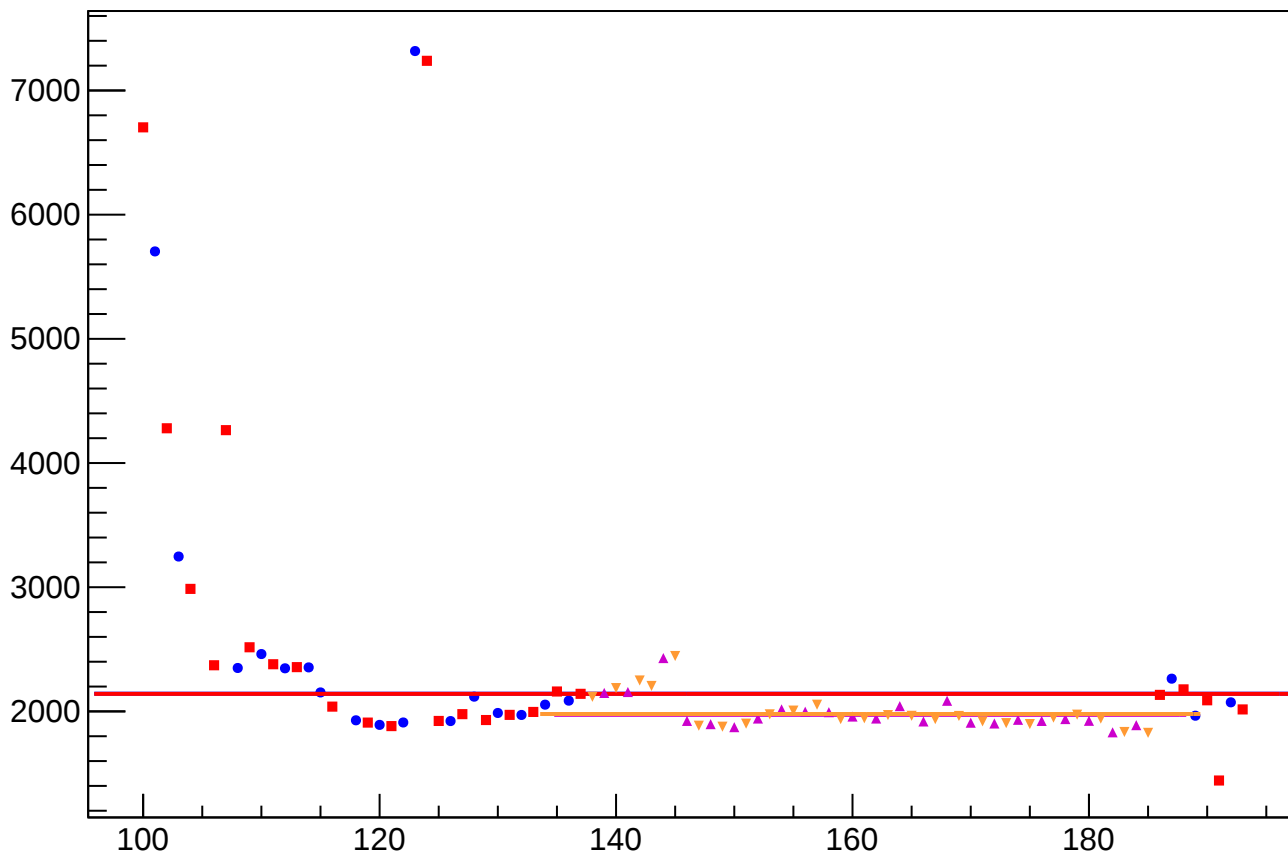
Right: 2015.211+/-522.265 χ^2/NDF : 44.6/43

In: 2133.554+/-403.715 χ^2/NDF : 45.9/42

Out: 1900.873+/-387.735 χ^2/NDF : 56.3/48

All: 2012.517+/-279.649 χ^2/NDF : 102.4/91

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2142.498+/-0.545 χ^2/NDF : 719122.4/19

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2141.225+/-0.502 χ^2/NDF : 904597.7/23

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

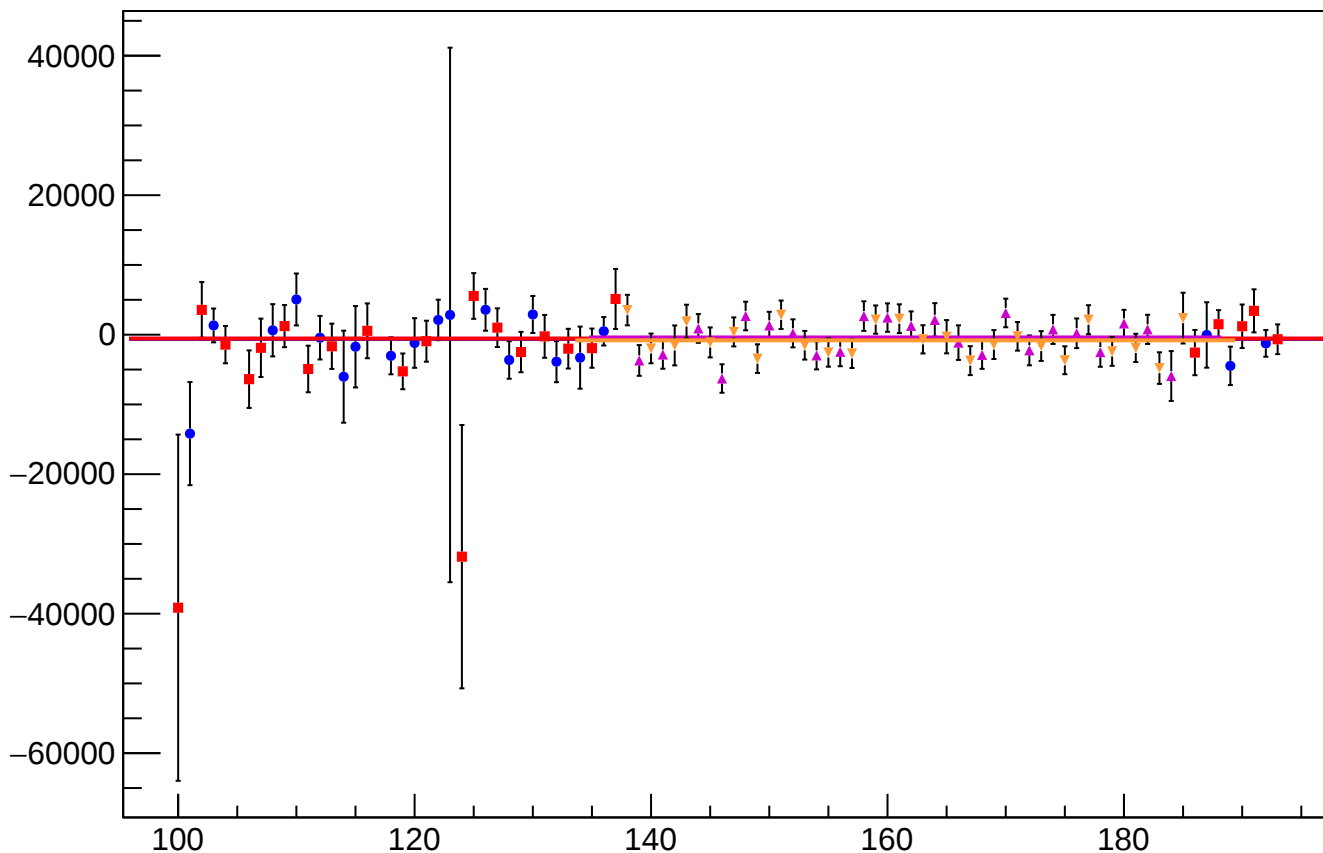
Right: 2141.810+/-0.369 χ^2/NDF : 1623723.1/43

In: 2018.961+/-0.285 χ^2/NDF :906511.5/42

Out: 2027.303+/-0.274 χ^2/NDF :1117107.3/48

All: 2023.300+/-0.198 χ^2/NDF : 2024063.0/91

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -601.705+/-694.081 χ^2/NDF : 17.8/19

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -556.875+/-636.387 χ^2/NDF : 23.9/23

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

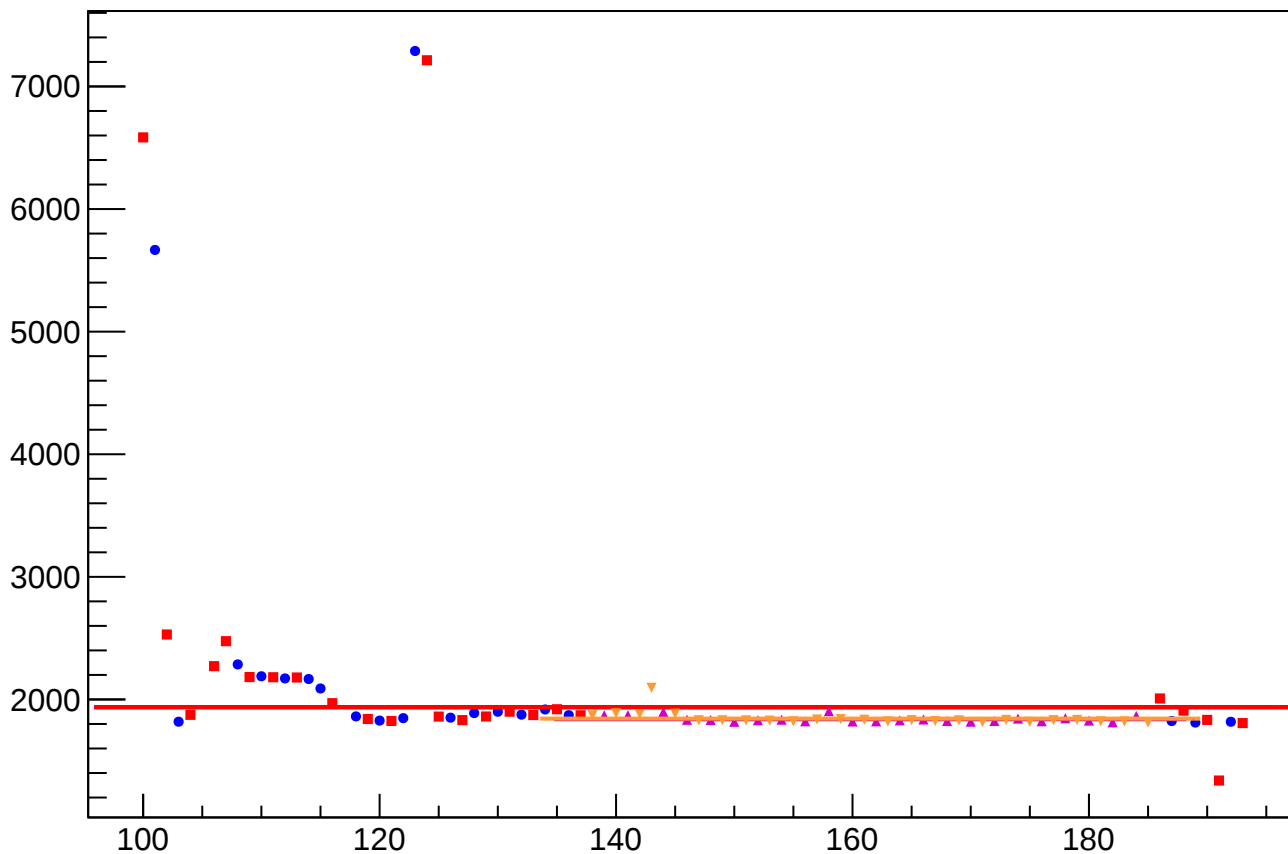
Right: -577.350+/-469.066 χ^2/NDF : 41.8/43

In: -457.199+/-372.369 χ^2/NDF : 52.3/42

Out: -729.508+/-356.464 χ^2/NDF : 52.0/48

All: -599.293+/-257.497 χ^2/NDF : 104.5/91

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1936.694 $\pm$ 0.491 χ^2 /NDF: 618587.5/19

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1936.123 $\pm$ 0.450 χ^2 /NDF: 452240.1/23

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

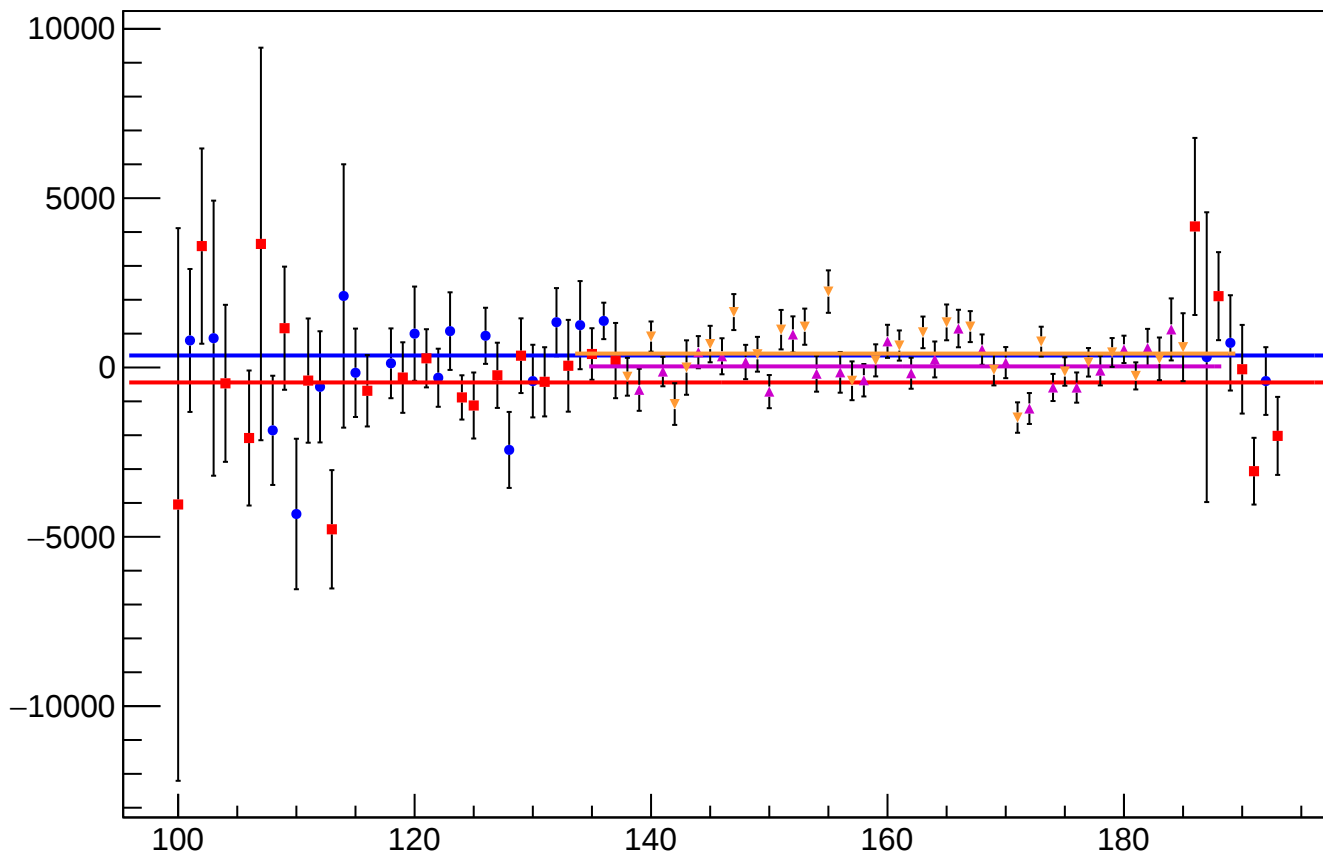
Right: 1936.383 $\pm$ 0.332 χ^2 /NDF: 1070828.3/43

In: 1866.842 $\pm$ 0.263 χ^2 /NDF: 653366.0/42

Out: 1872.730 $\pm$ 0.252 χ^2 /NDF: 508026.6/48

All: 1869.914 $\pm$ 0.182 χ^2 /NDF: 1161653.6/91

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 354.872 $\pm$ 256.632 χ^2 /NDF: 21.1/19

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -441.557 $\pm$ 241.516 χ^2 /NDF: 30.2/23

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF:32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

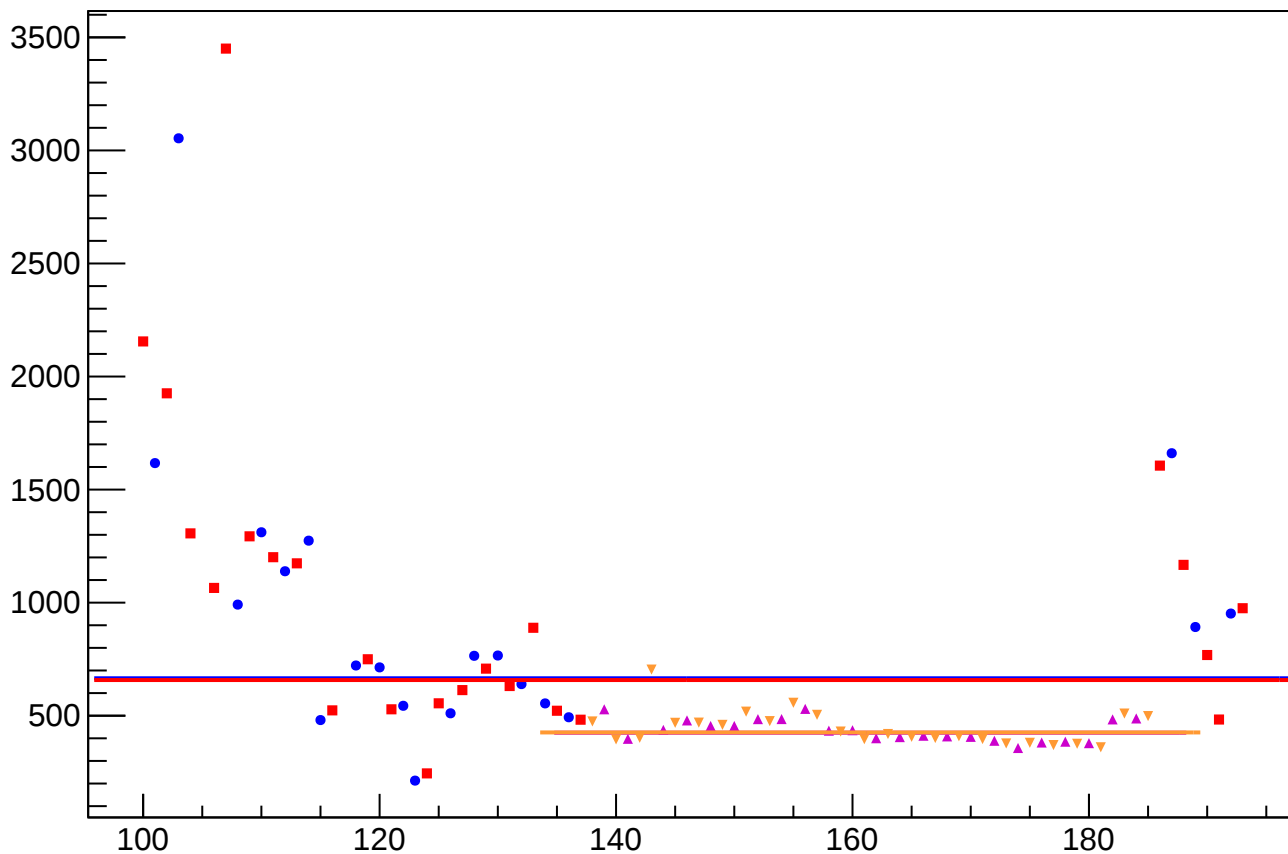
Right: -67.487 $\pm$ 175.879 χ^2 /NDF: 56.4/43

In: 76.741 $\pm$ 95.111 χ^2 /NDF:55.2/42

Out: 285.319 $\pm$ 92.753 χ^2 /NDF:102.0/48

All: 183.648 $\pm$ 66.404 χ^2 /NDF: 159.7/91

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 665.504 $\pm$ 0.181 χ^2 /NDF: 2612921.0/19

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 657.720 $\pm$ 0.171 χ^2 /NDF: 3647237.0/23

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

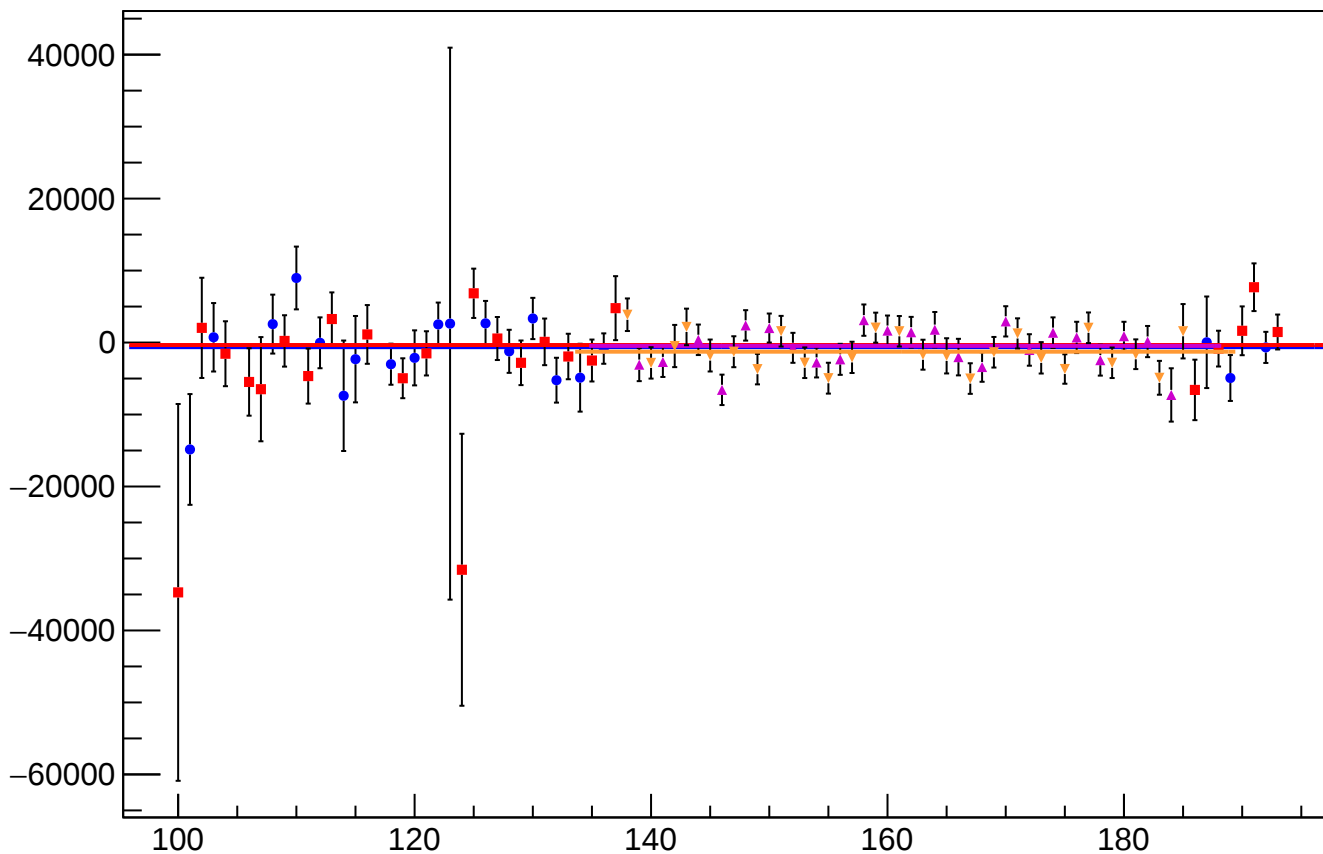
Right: 661.376 $\pm$ 0.124 χ^2 /NDF: 6261134.0/43

In: 457.722 $\pm$ 0.067 χ^2 /NDF: 4524346.6/42

Out: 460.199 $\pm$ 0.066 χ^2 /NDF: 5949445.0/48

All: 458.992 $\pm$ 0.047 χ^2 /NDF: 10474487.0/92

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -639.648+/-779.655 χ^2/NDF : 19.7/19

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: -344.352+/-727.994 χ^2/NDF : 28.1/23

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

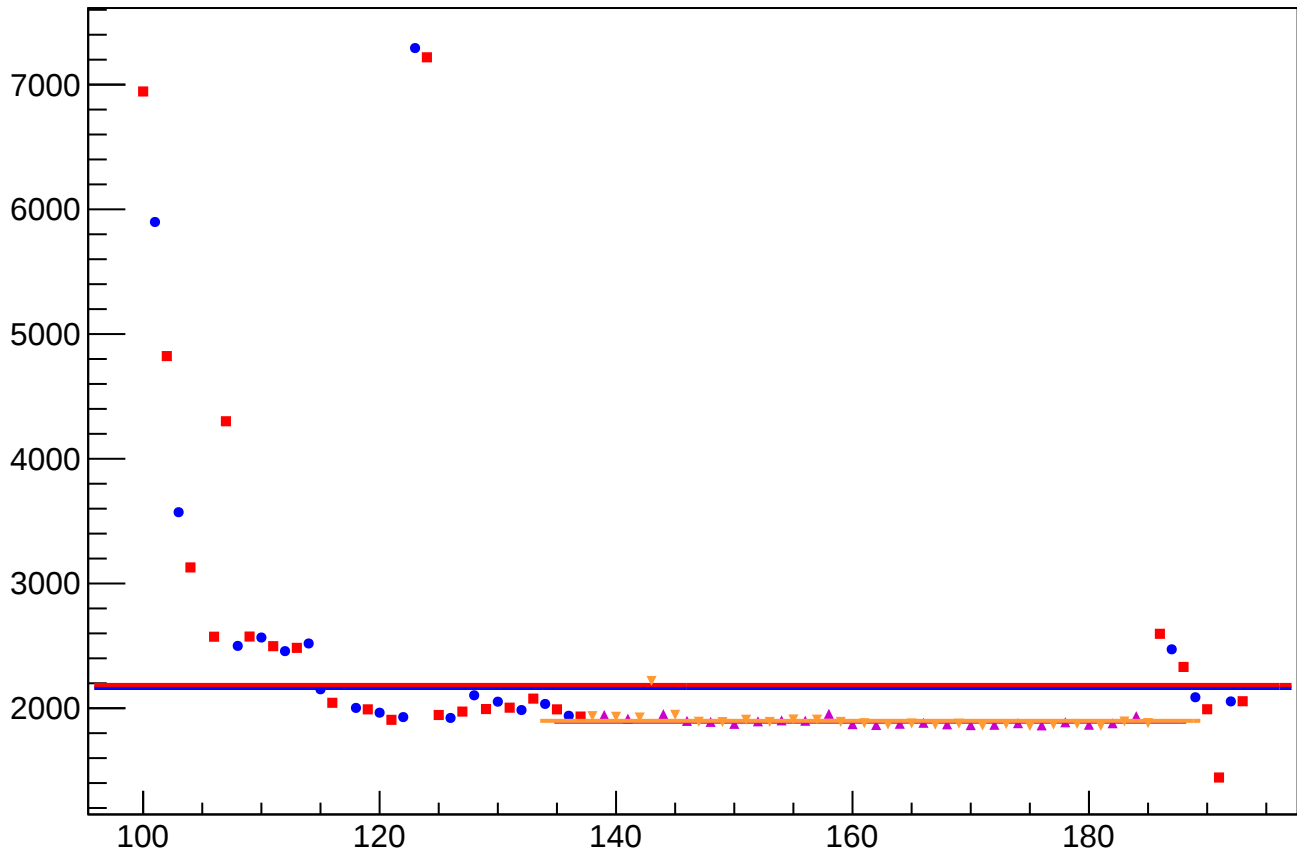
Right: -481.893+/-532.096 χ^2/NDF : 47.9/43

In: -507.424+/-392.296 χ^2/NDF : 52.3/42

Out: -1018.137+/-378.576 χ^2/NDF : 60.1/48

All: -771.868+/-272.415 χ^2/NDF : 113.3/91

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2162.199+/-0.551 χ^2/NDF : 812410.3/19

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2186.923+/-0.515 χ^2/NDF : 1036115.0/23

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

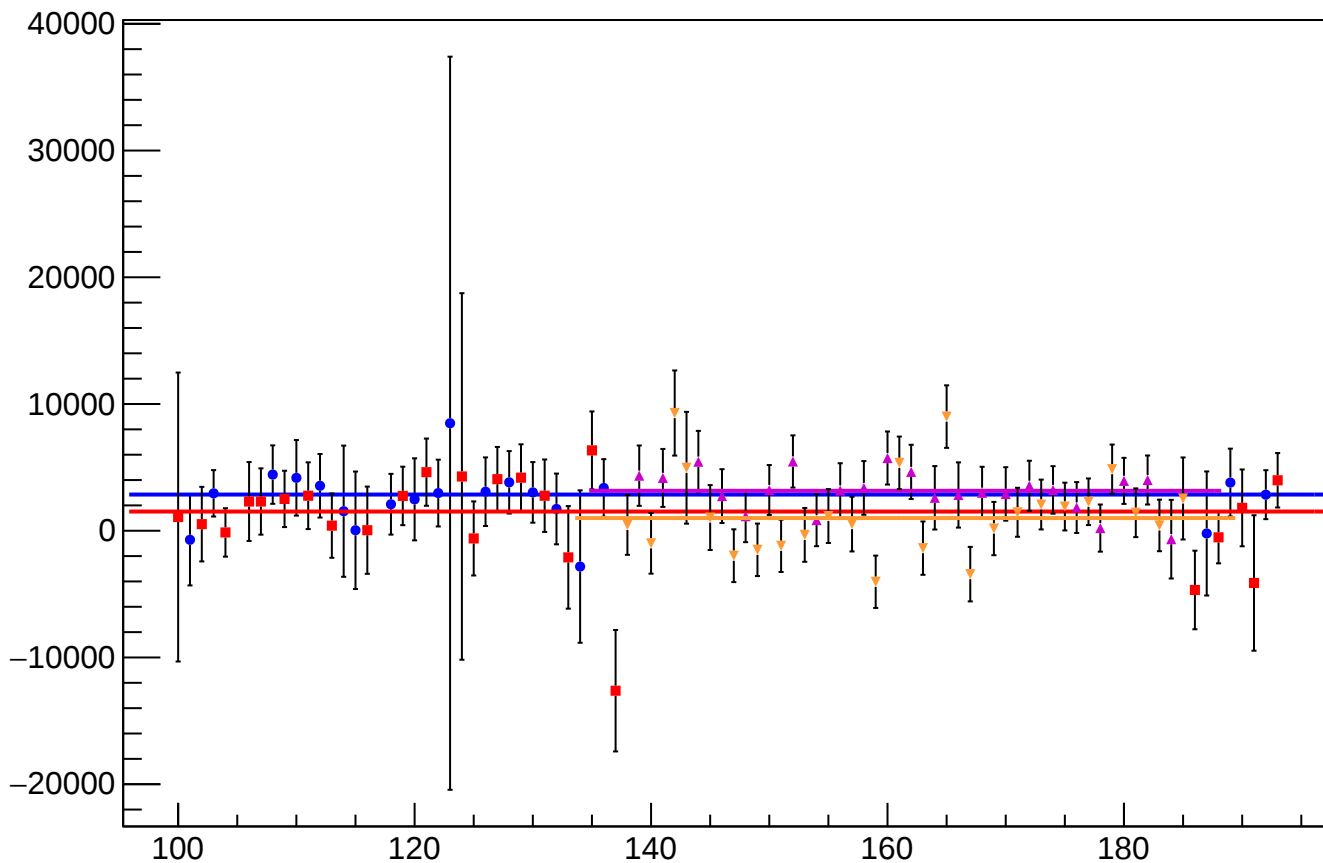
Right: 2175.407+/-0.376 χ^2/NDF : 1849599.7/43

In: 1960.179+/-0.277 χ^2/NDF : 999634.8/42

Out: 1976.834+/-0.268 χ^2/NDF : 1303099.7/48

All: 1968.803+/-0.193 χ^2/NDF : 2304601.2/91

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2855.896 ± 619.170 $\chi^2/\text{NDF}: 4.1/19$

Left Out: 1001.263 ± 435.247 $\chi^2/\text{NDF}: 44.6/24$

Right Out: 1515.586 ± 575.564 $\chi^2/\text{NDF}: 25.6/23$

Left In: 3150.437 ± 441.145 $\chi^2/\text{NDF}: 11.8/22$

Left: 2061.387 ± 309.830 $\chi^2/\text{NDF}: 68.5/47$

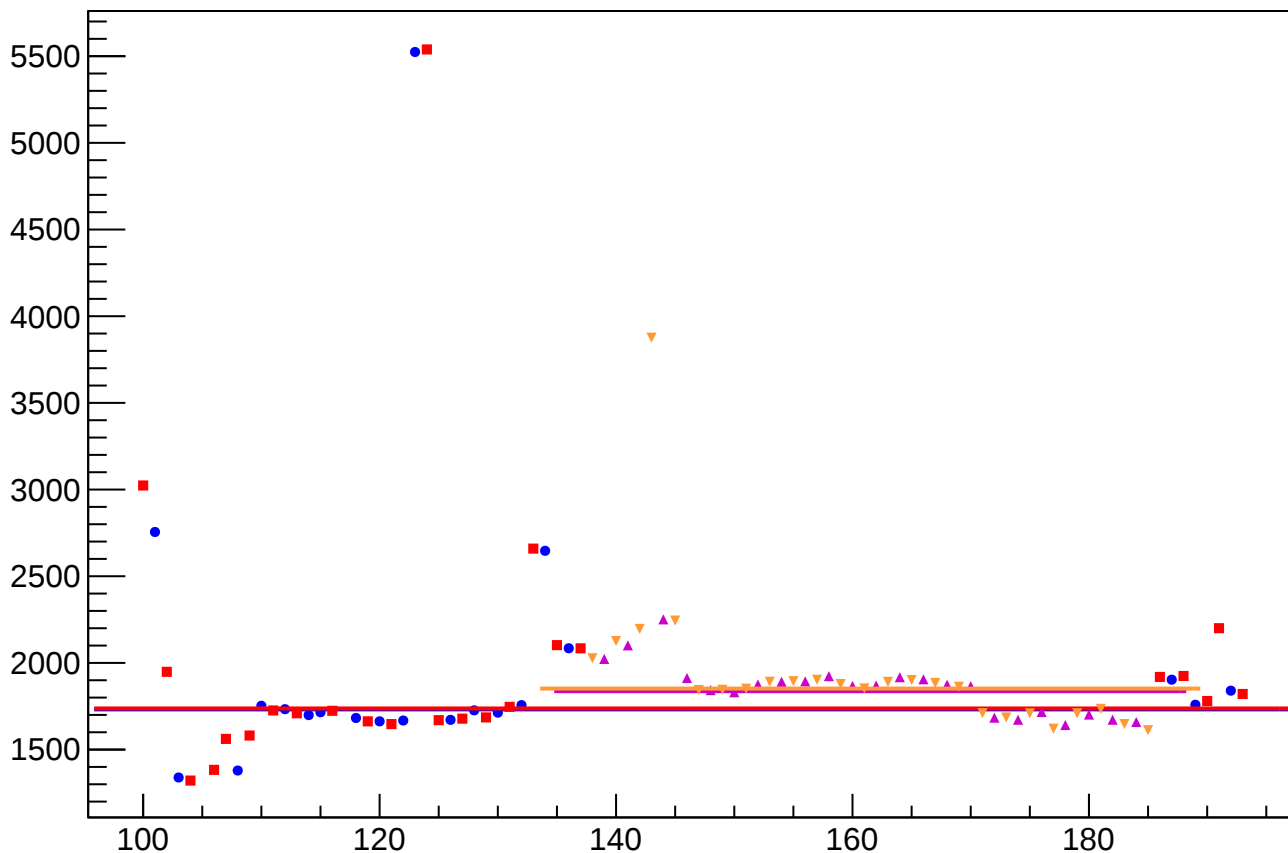
Right: 2136.886 ± 421.559 $\chi^2/\text{NDF}: 32.3/43$

In: 3051.263 ± 359.281 $\chi^2/\text{NDF}: 16.1/42$

Out: 1188.378 ± 347.160 $\chi^2/\text{NDF}: 70.8/48$

All: 2087.866 ± 249.655 $\chi^2/\text{NDF}: 100.8/91$

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1731.971+/-0.438 χ^2/NDF : 442650.0/19

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1737.280+/-0.407 χ^2/NDF : 505679.5/23

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

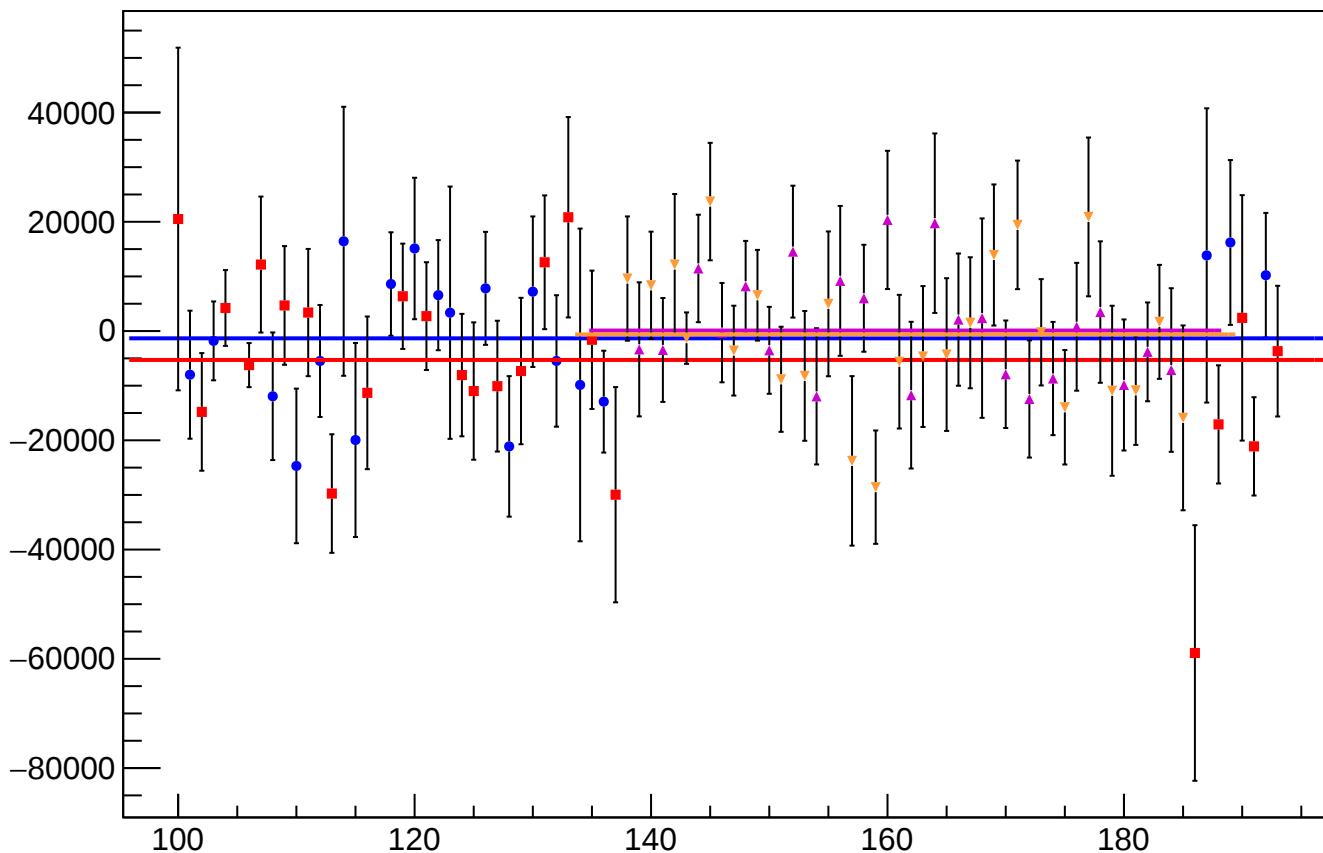
Right: 1734.819+/-0.298 χ^2/NDF : 948408.4/43

In: 1801.736+/-0.254 χ^2/NDF : 681445.0/42

Out: 1810.237+/-0.245 χ^2/NDF : 1205146.4/48

All: 1806.132+/-0.177 χ^2/NDF : 1887170.5/93

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1333.646 $\pm$ 2714.379 χ^2 /NDF: 17.0/19

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -5289.622 $\pm$ 2104.446 χ^2 /NDF: 30.1/23

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

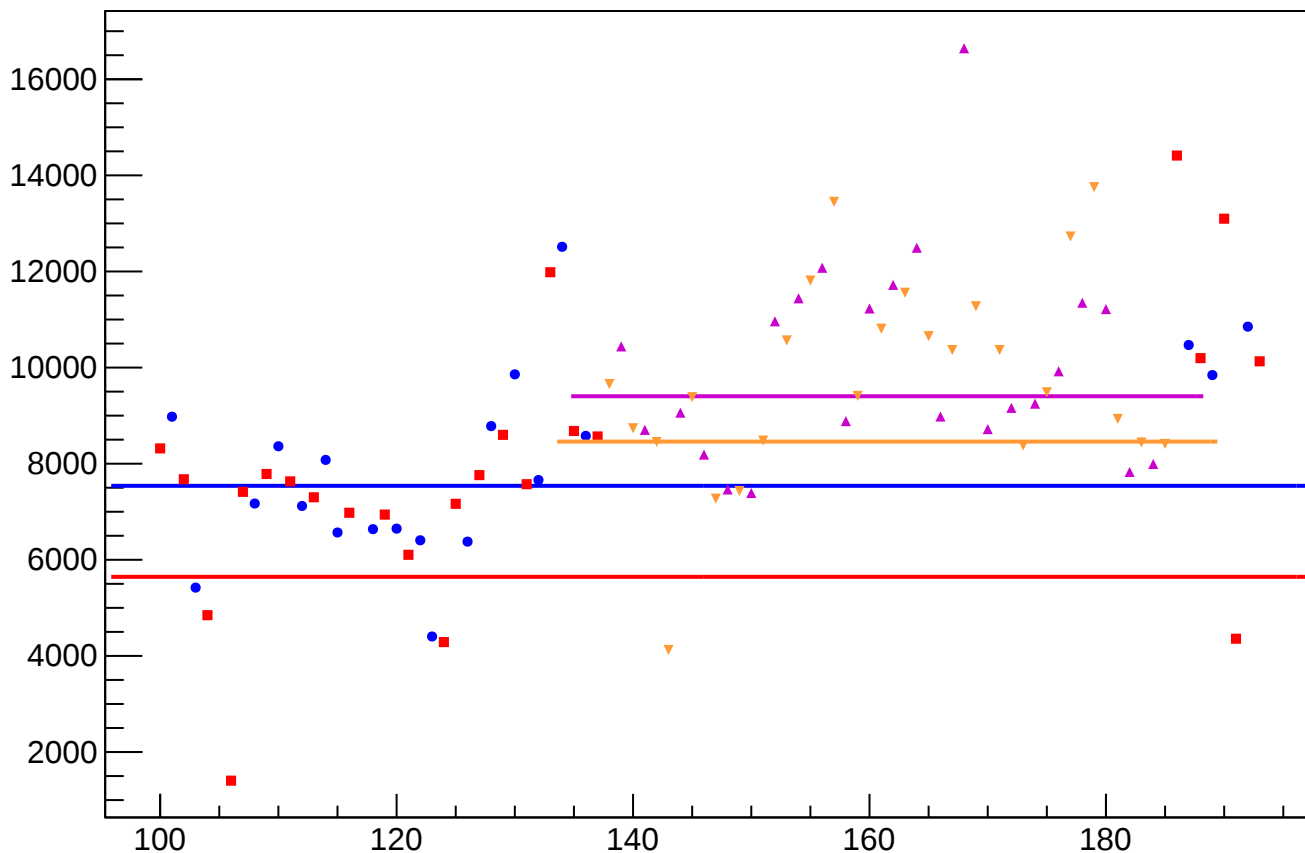
Right: -3804.458 $\pm$ 1663.148 χ^2 /NDF: 48.4/43

In: -501.168 $\pm$ 1752.016 χ^2 /NDF:31.8/42

Out: -2915.608 $\pm$ 1475.625 χ^2 /NDF:62.7/48

All: -1913.637 $\pm$ 1128.645 χ^2 /NDF: 95.6/91

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7539.602 $\pm$ 1.919 χ^2/NDF : 736341.6/19

Left Out: 8459.960 $\pm$ 1.463 χ^2/NDF : 3087200.5/24

Right Out: 5645.528 $\pm$ 1.488 χ^2/NDF : 4448093.9/23

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

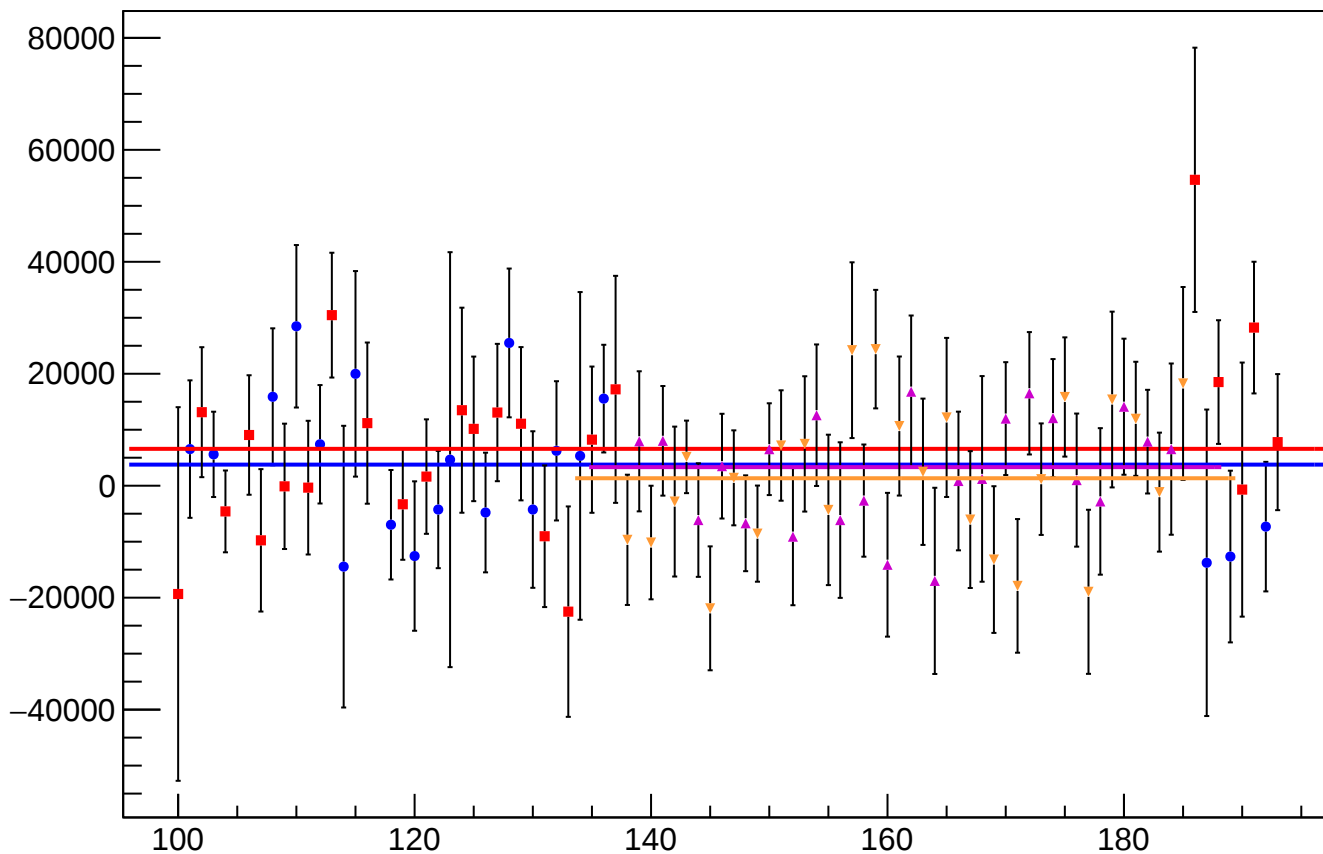
Right: 6356.606 $\pm$ 1.176 χ^2/NDF : 5792667.5/43

In: 8626.961 $\pm$ 1.239 χ^2/NDF : 2429136.4/42

Out: 7076.179 $\pm$ 1.043 χ^2/NDF : 9353651.4/48

All: 7719.740 $\pm$ 0.798 χ^2/NDF : 12699468.3/9

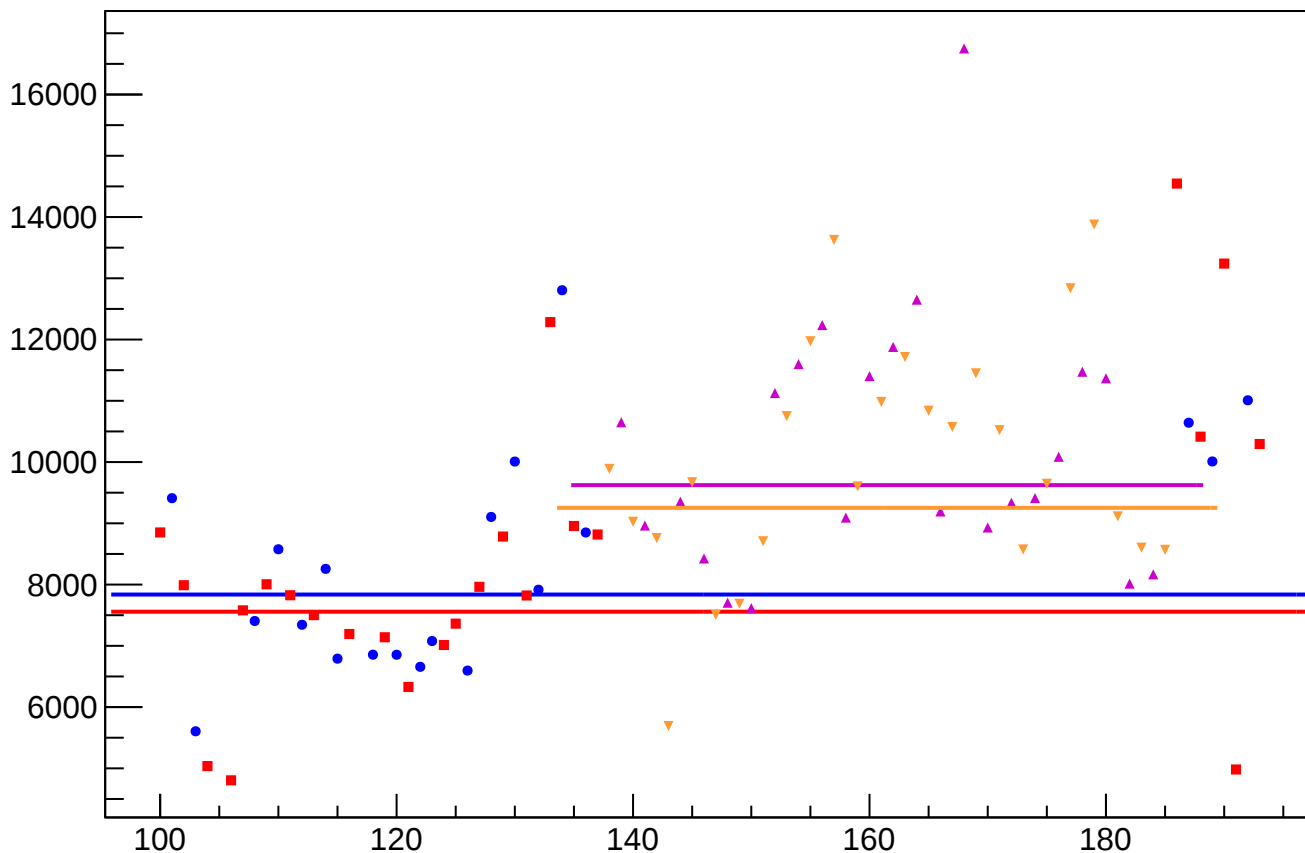
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3767.813 $\pm$ 2820.624 χ^2 /NDF: 16.4/19
 Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24
 Right Out: 6586.531 $\pm$ 2549.499 χ^2 /NDF: 25.2/23
 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: 5319.121 $\pm$ 1891.377 χ^2 /NDF: 42.1/43
 In: 3501.151 $\pm$ 1803.005 χ^2 /NDF:30.1/42
 Out: 3591.170 $\pm$ 1671.541 χ^2 /NDF:55.7/48
 All: 3549.562 $\pm$ 1225.802 χ^2 /NDF: 85.8/91

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7837.433 $\pm$ 1.994 χ^2/NDF : 665293.0/19

Left Out: 9252.712 $\pm$ 1.565 χ^2/NDF : 1597668.9/24

Right Out: 7557.159 $\pm$ 1.803 χ^2/NDF : 1225451.7/23

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

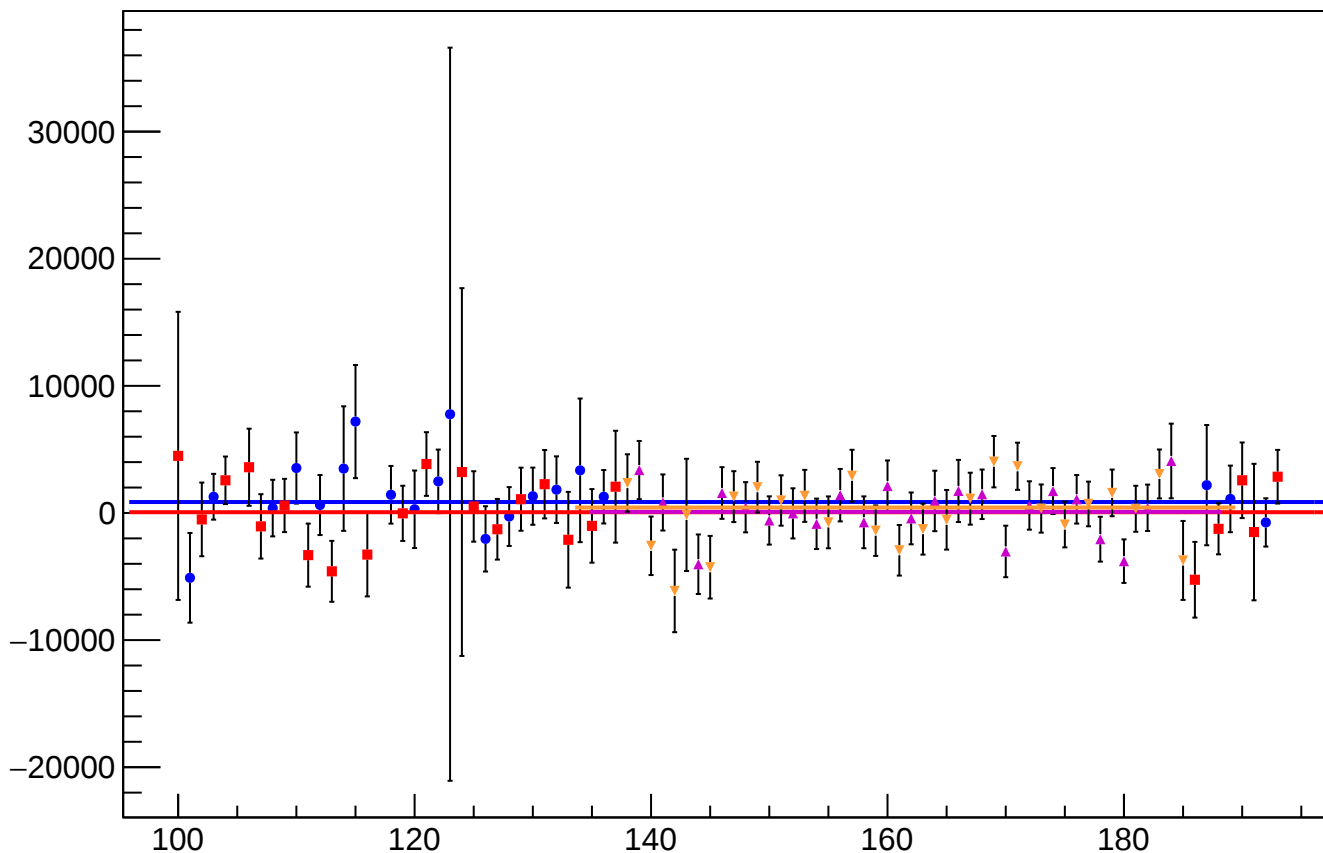
Right: 7683.170 $\pm$ 1.337 χ^2/NDF : 1901614.1/43

In: 8893.676 $\pm$ 1.275 χ^2/NDF : 2209478.0/42

Out: 8523.775 $\pm$ 1.182 χ^2/NDF : 3327527.1/48

All: 8694.743 $\pm$ 0.867 χ^2/NDF : 5582277.6/91

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 861.139+/-591.312 χ^2/NDF : 9.5/19

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: 59.771+/-551.182 χ^2/NDF : 20.6/23

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

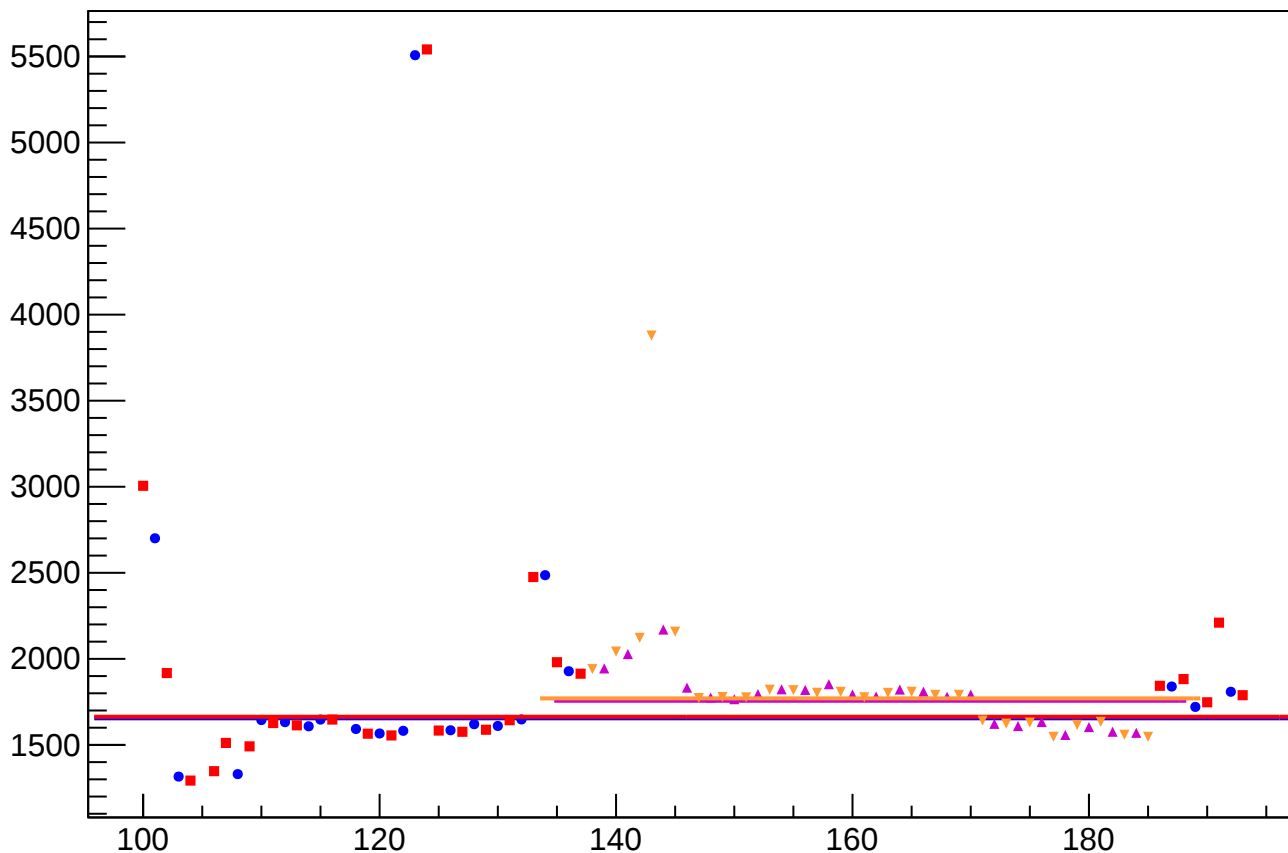
Right: 432.341+/-403.186 χ^2/NDF : 31.1/43

In: 349.108+/-343.473 χ^2/NDF : 31.6/42

Out: 295.133+/-332.235 χ^2/NDF : 49.6/48

All: 321.223+/-238.800 χ^2/NDF : 81.2/91

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1654.562 $\pm$ 0.418 χ^2 /NDF: 427342.7/19

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1663.633 $\pm$ 0.390 χ^2 /NDF: 507462.1/23

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

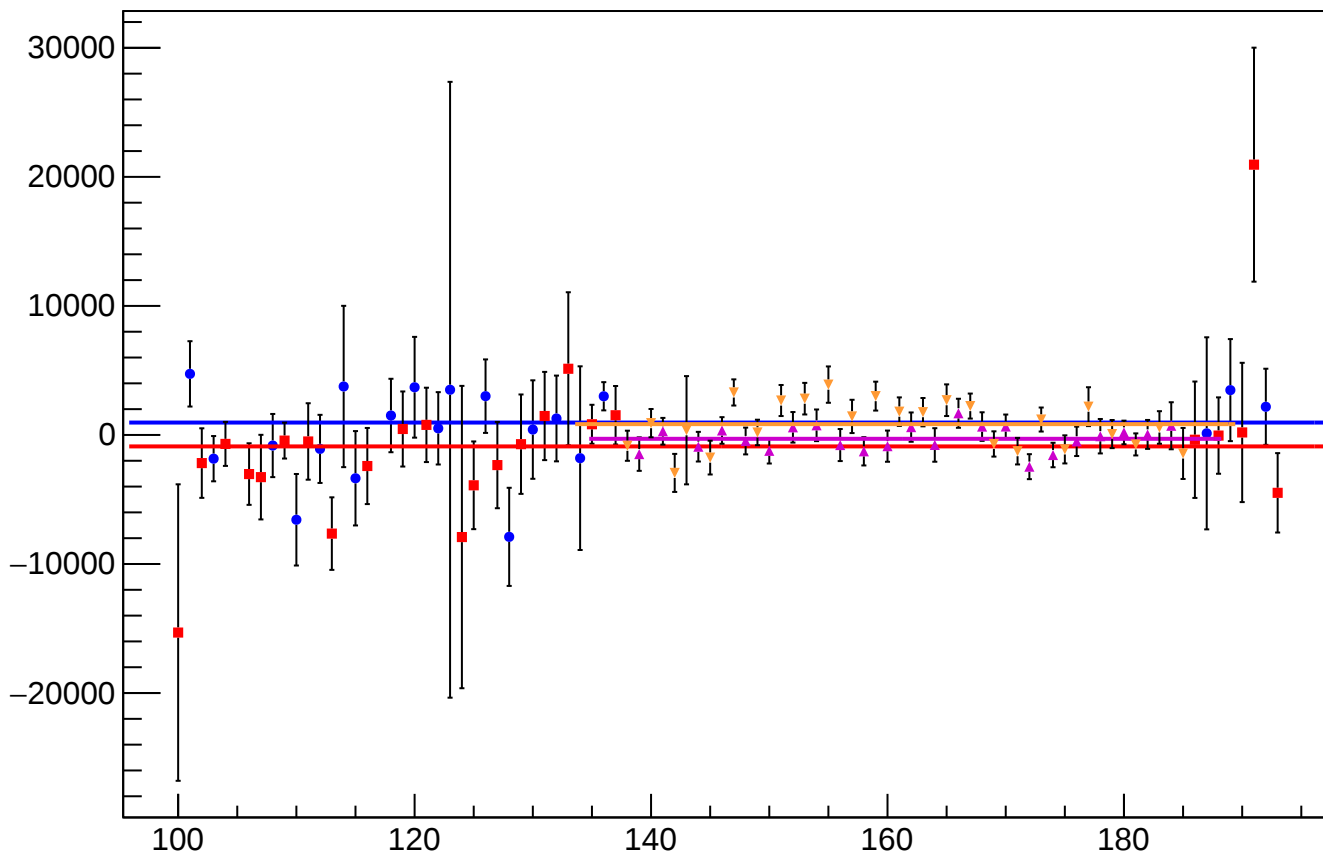
Right: 1659.416 $\pm$ 0.285 χ^2 /NDF: 935056.7/43

In: 1722.187 $\pm$ 0.243 χ^2 /NDF: 689899.0/42

Out: 1731.598 $\pm$ 0.235 χ^2 /NDF: 1254762.4/48

All: 1727.049 $\pm$ 0.169 χ^2 /NDF: 1945437.1/91

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 961.059+/-609.211 χ^2/NDF : 22.7/19

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -887.658+/-560.451 χ^2/NDF : 22.4/23

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

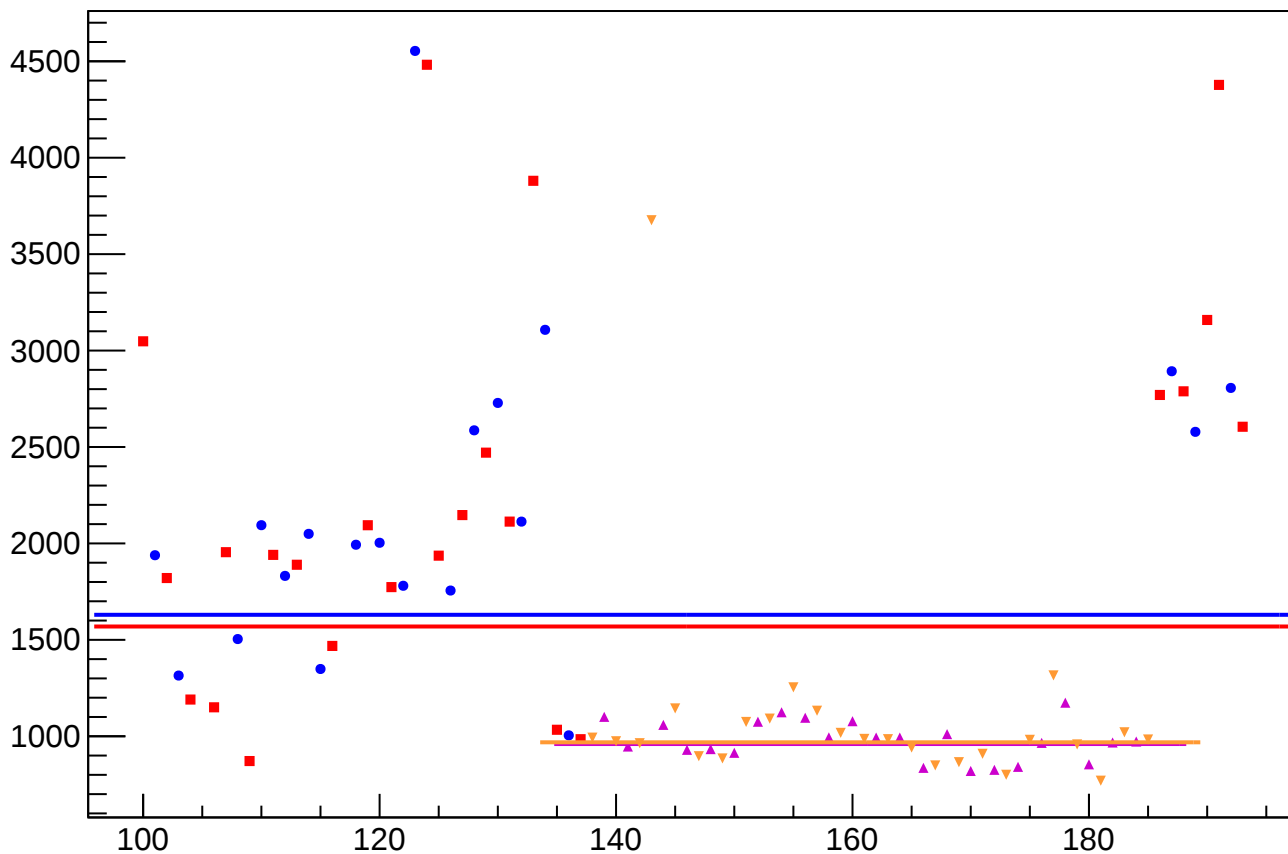
Right: -40.234+/-412.461 χ^2/NDF : 50.2/43

In: -139.953+/-216.320 χ^2/NDF : 44.8/42

Out: 589.552+/-213.147 χ^2/NDF : 85.0/48

All: 230.189+/-151.827 χ^2/NDF : 135.5/91

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1629.870+/-0.431 χ^2/NDF : 1822462.7/19

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1569.196+/-0.396 χ^2/NDF : 3006095.5/23

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

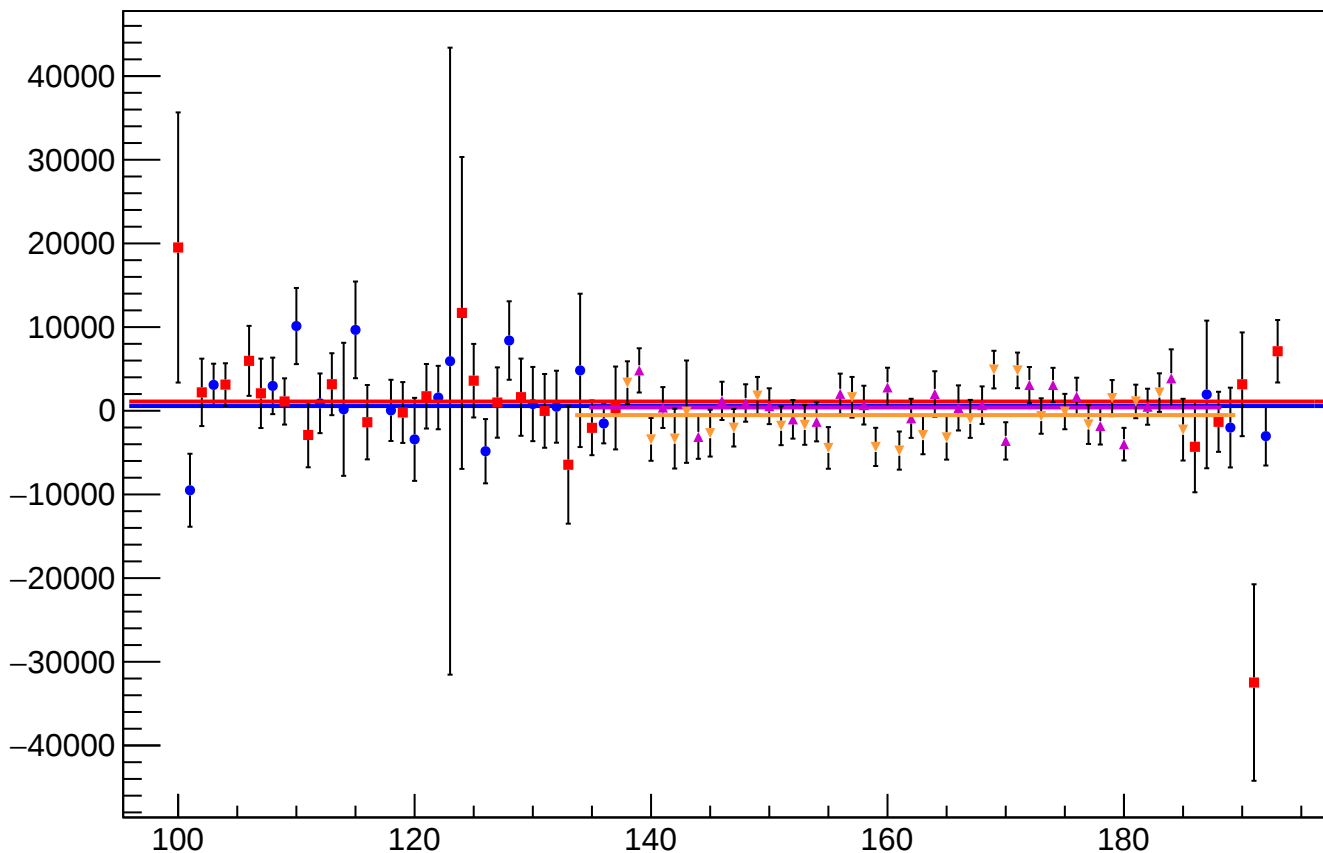
Right: 1597.008+/-0.292 χ^2/NDF : 4839302.7/43

In: 1044.289+/-0.153 χ^2/NDF : 4308127.3/42

Out: 1055.565+/-0.151 χ^2/NDF : 6363638.3/48

All: 1050.010+/-0.107 χ^2/NDF : 10674523.0/95

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 563.951 ± 913.030 χ^2/NDF : 21.6/19

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 1104.573 ± 851.406 χ^2/NDF : 20.4/23

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

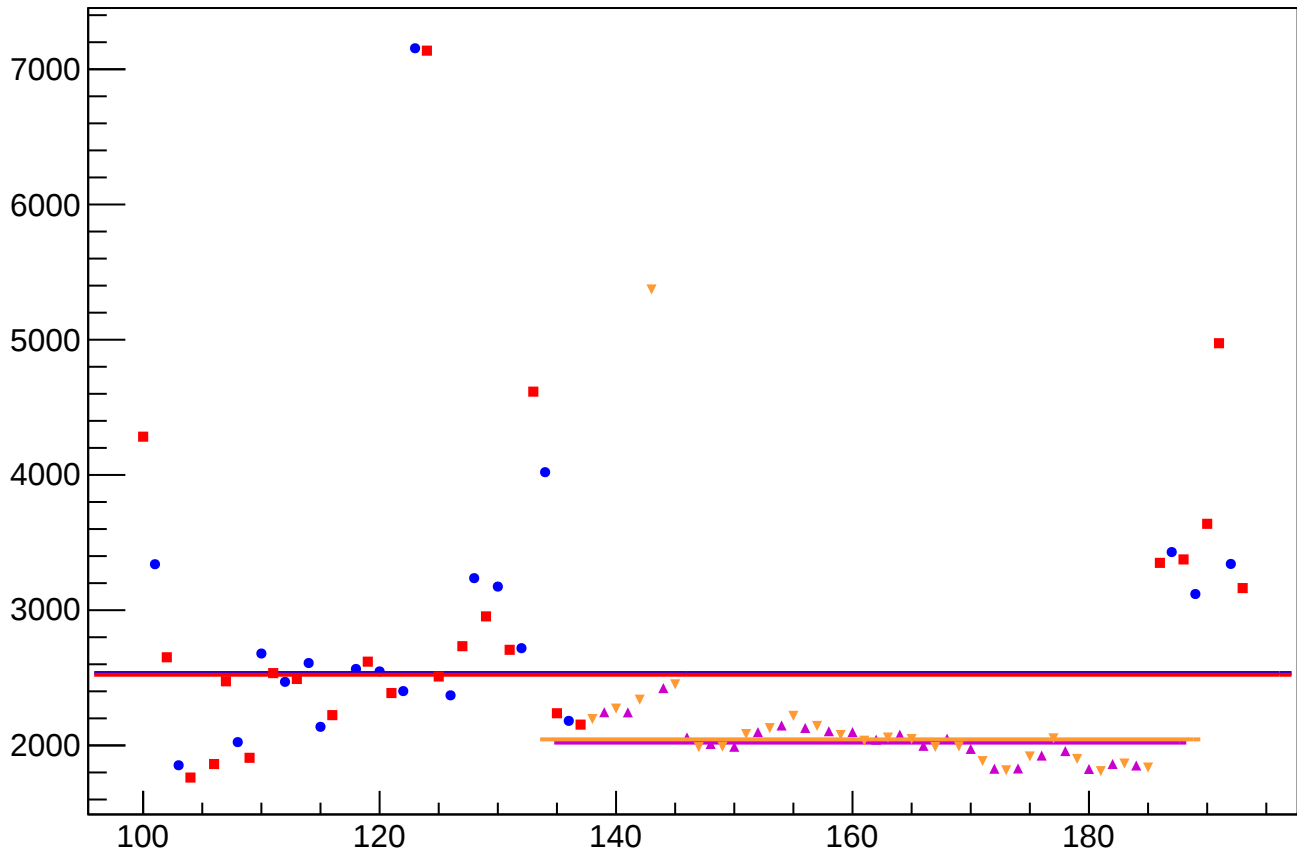
Right: 853.120 ± 622.682 χ^2/NDF : 42.2/43

In: 434.058 ± 428.353 χ^2/NDF : 43.5/42

Out: -124.612 ± 419.110 χ^2/NDF : 57.2/48

All: 148.630 ± 299.570 χ^2/NDF : 101.5/91

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2535.188+/-0.646 χ^2/NDF : 651046.7/19

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2522.792+/-0.602 χ^2/NDF : 1087414.0/23

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

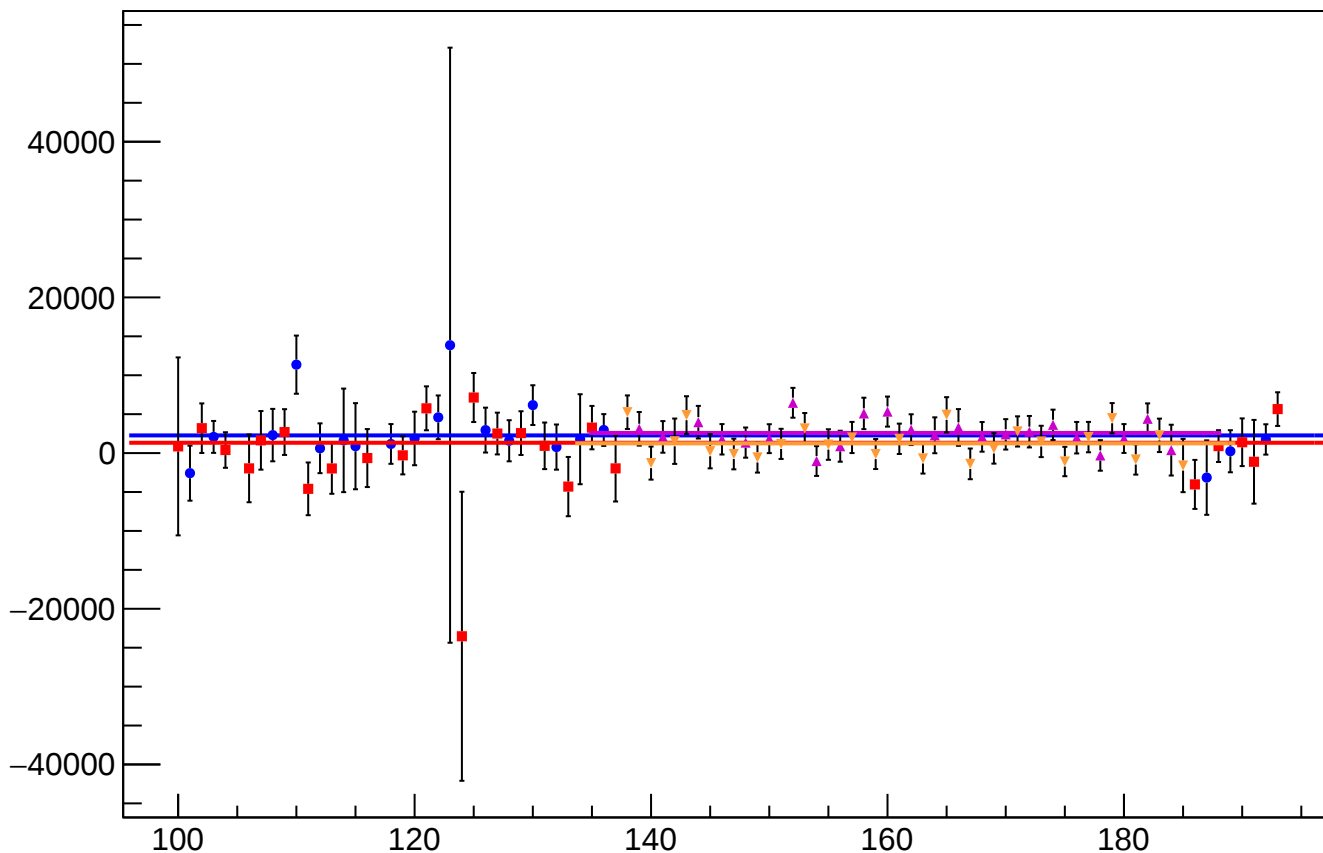
Right: 2528.558+/-0.440 χ^2/NDF : 1738657.9/43

In: 2134.022+/-0.303 χ^2/NDF : 1319629.6/42

Out: 2160.567+/-0.296 χ^2/NDF : 2353898.8/48

All: 2147.584+/-0.212 χ^2/NDF : 3677452.4/93

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2271.891+/-667.420 χ^2/NDF : 13.9/19

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 1328.101+/-630.830 χ^2/NDF : 24.6/23

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

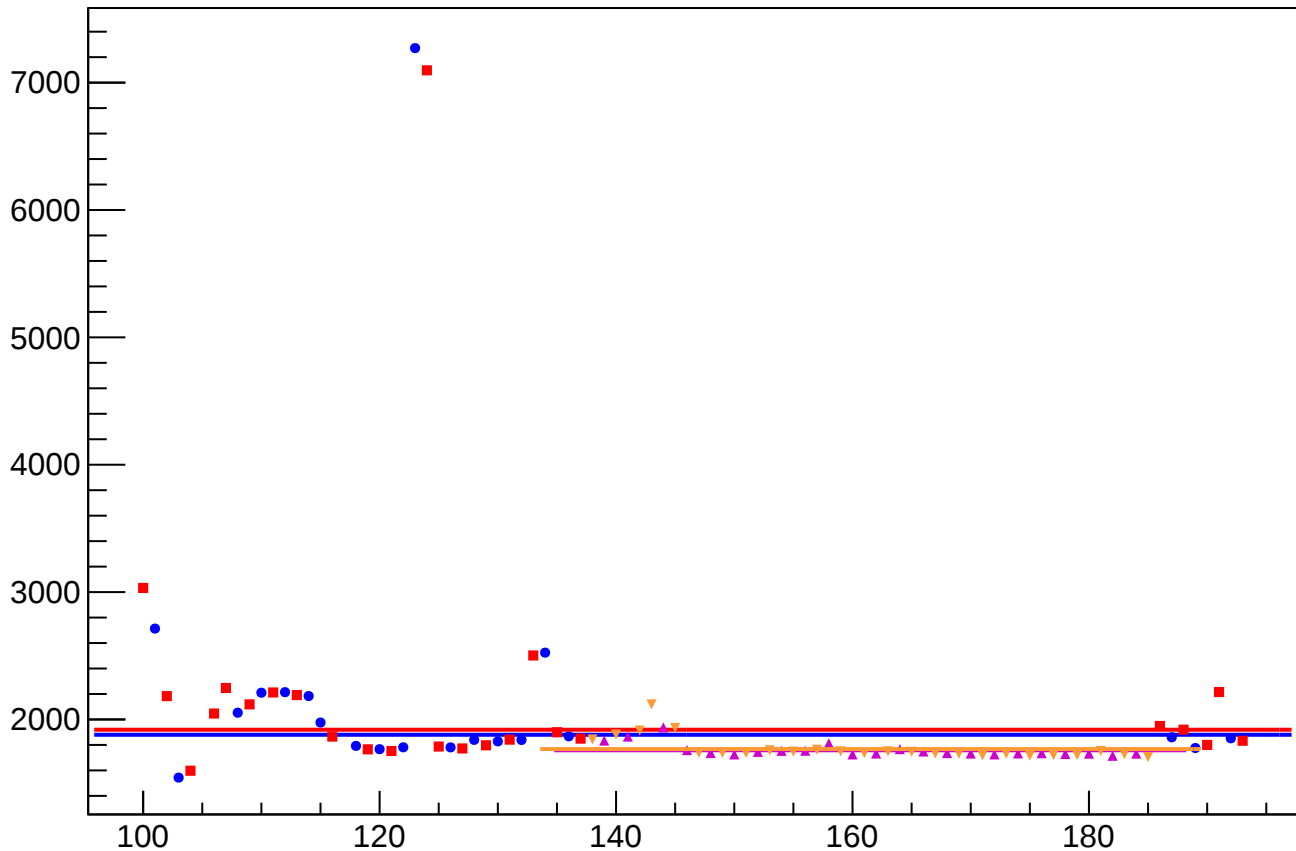
Right: 1773.418+/-458.454 χ^2/NDF : 39.5/43

In: 2497.108+/-356.387 χ^2/NDF : 31.5/42

Out: 1273.333+/-345.233 χ^2/NDF : 47.6/48

All: 1865.771+/-247.966 χ^2/NDF : 85.2/91

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1879.905 $\pm$ 0.472 χ^2 /NDF: 291695.4/19

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1919.414 $\pm$ 0.446 χ^2 /NDF: 373086.3/23

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

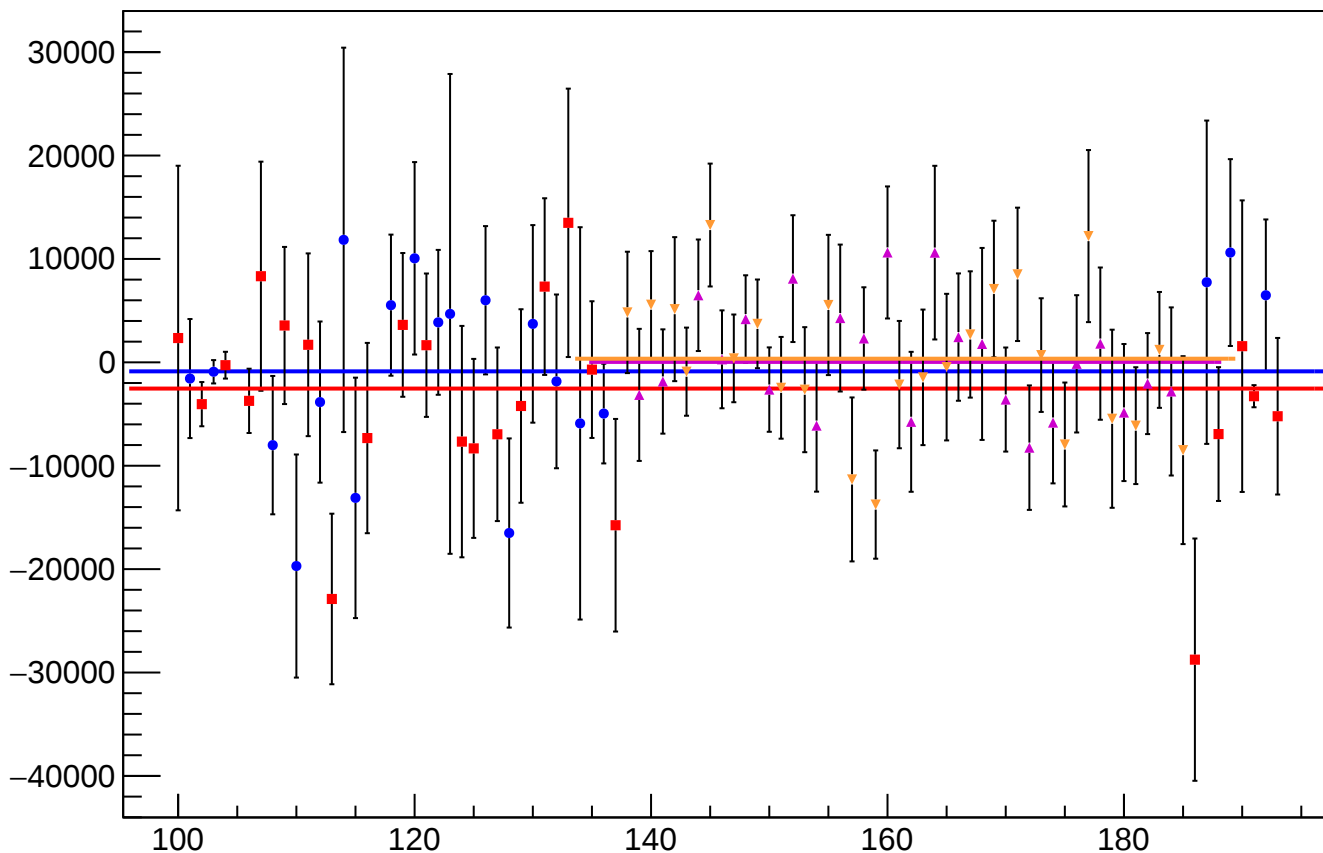
Right: 1900.795 $\pm$ 0.324 χ^2 /NDF: 668487.4/43

In: 1792.813 $\pm$ 0.252 χ^2 /NDF: 369139.8/42

Out: 1813.083 $\pm$ 0.244 χ^2 /NDF: 532120.9/48

All: 1803.274 $\pm$ 0.175 χ^2 /NDF: 904599.6/91

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -871.574+/-968.959 χ^2 /NDF: 16.5/19

Left Out: 351.227+/-1170.051 χ^2 /NDF:27.8/24

Right Out: -2537.245+/-697.783 χ^2 /NDF: 24.8/23

Left In: 40.618+/-1207.491 χ^2 /NDF:16.0/22

Left: 200.813+/-840.276 χ^2 /NDF: 43.9/47

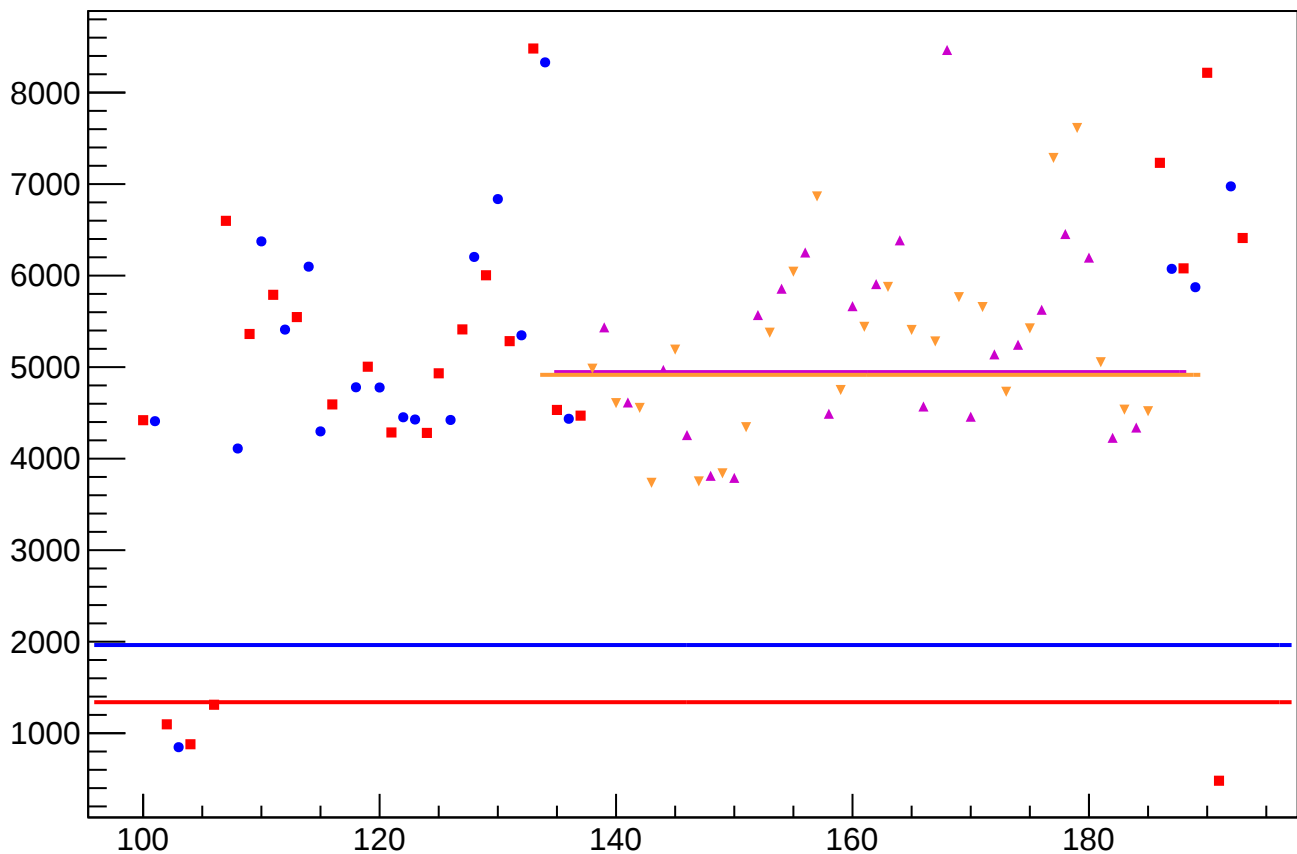
Right: -1968.424+/-566.238 χ^2 /NDF: 43.3/43

In: -514.265+/-755.724 χ^2 /NDF:32.9/42

Out: -1779.455+/-599.302 χ^2 /NDF:57.2/48

All: -1290.991+/-469.571 χ^2 /NDF: 91.7/91

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1963.403+/-0.685 χ^2/NDF : 7934222.1/19

Left Out: 4915.865+/-0.827 χ^2/NDF : 1186479.7/24

Right Out: 1338.912+/-0.493 χ^2/NDF : 10926943.7/23

Left In: 4945.817+/-0.854 χ^2/NDF : 1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

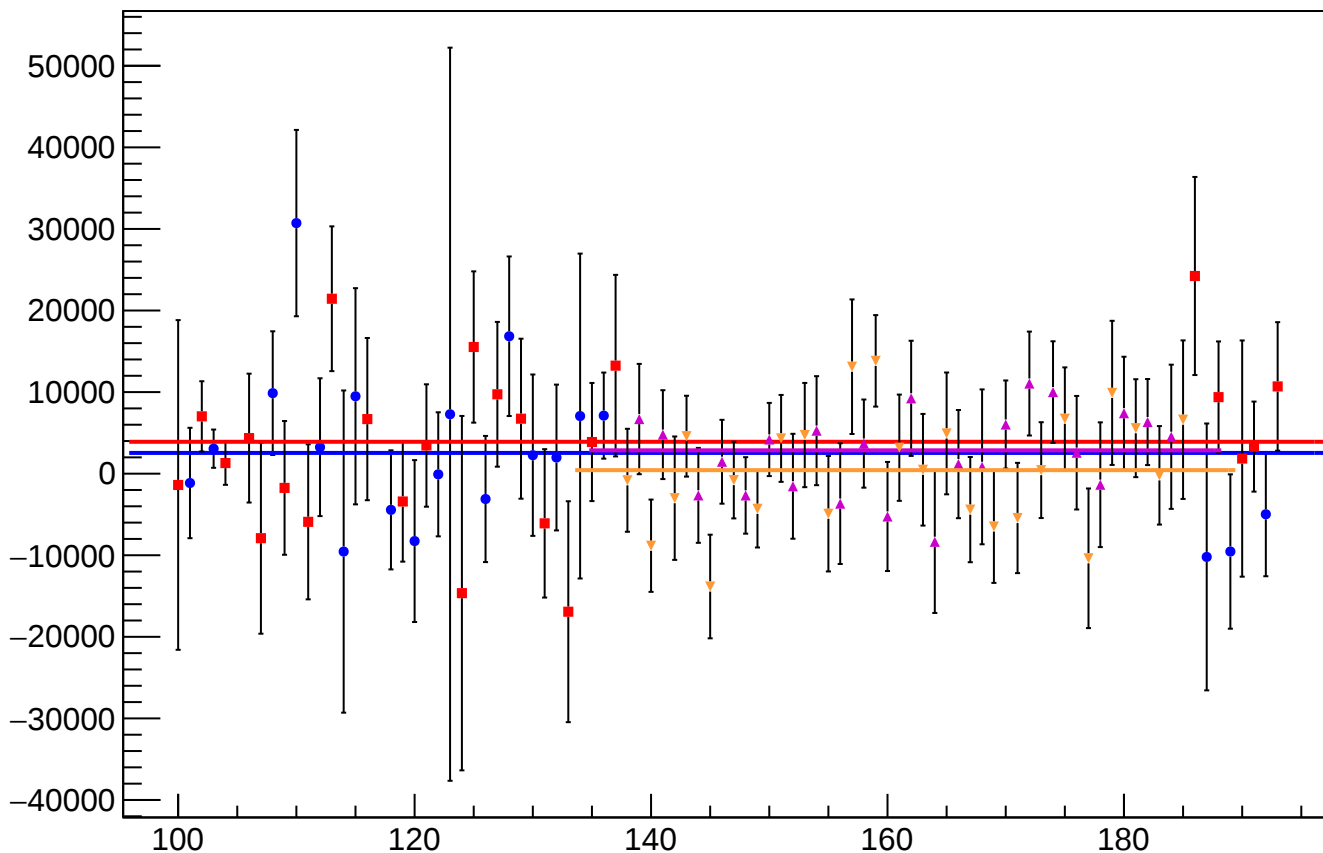
Right: 1552.174+/-0.400 χ^2/NDF : 19408217.7/43

In: 3131.626+/-0.534 χ^2/NDF : 16544372.6/42

Out: 2277.325+/-0.424 χ^2/NDF : 25901287.9/48

All: 2607.153+/-0.332 χ^2/NDF : 44014714.5/95

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2544.117+/-1546.069 χ^2/NDF : 17.0/19

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3909.501+/-1460.705 χ^2/NDF : 20.4/23

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

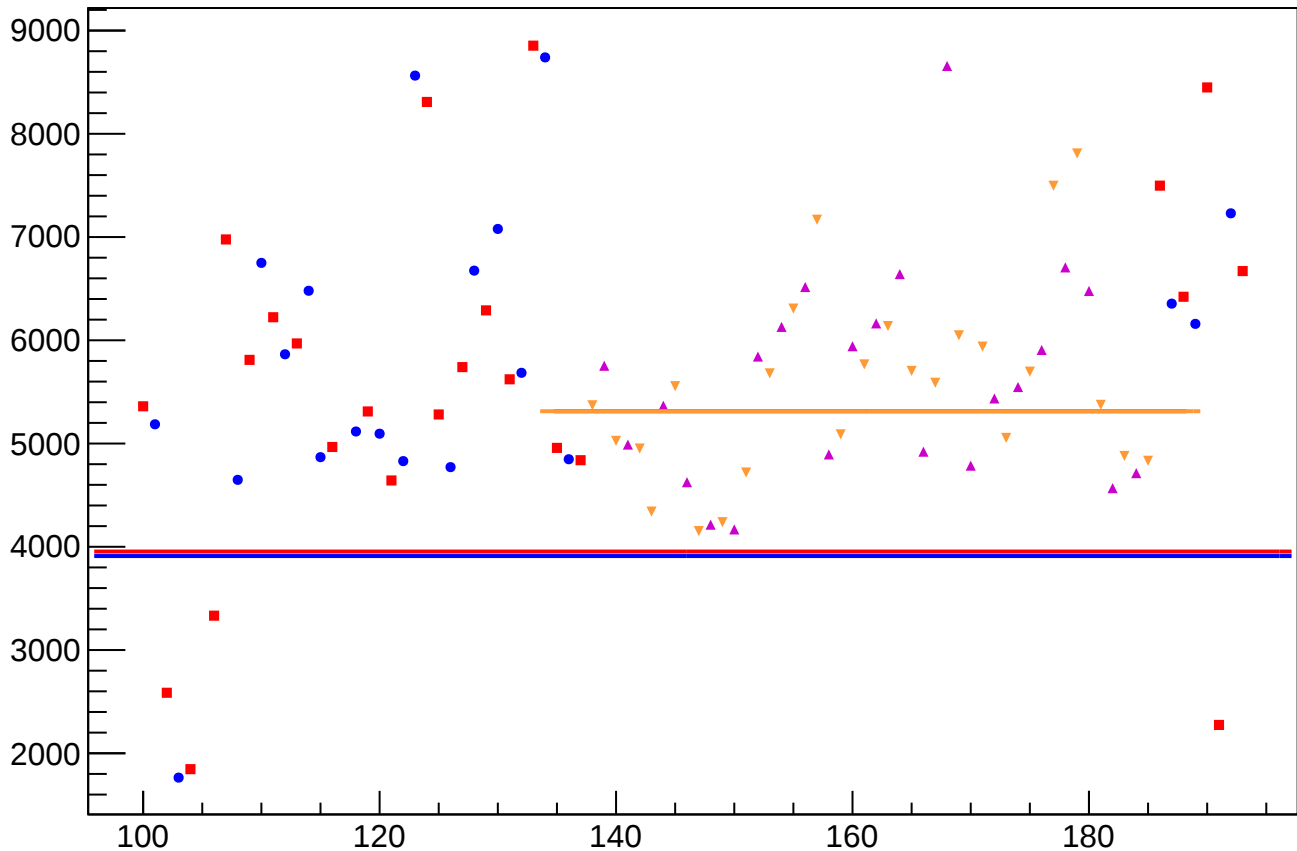
Right: 3265.542+/-1061.770 χ^2/NDF : 37.8/43

In: 2730.221+/-991.551 χ^2/NDF : 29.8/42

Out: 1912.619+/-953.337 χ^2/NDF : 50.8/48

All: 2305.362+/-687.224 χ^2/NDF : 81.0/91

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3910.306 ± 1.093 $\chi^2/\text{NDF}: 3362992.3/19$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 3953.912 ± 1.027 $\chi^2/\text{NDF}: 3778762.3/23$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

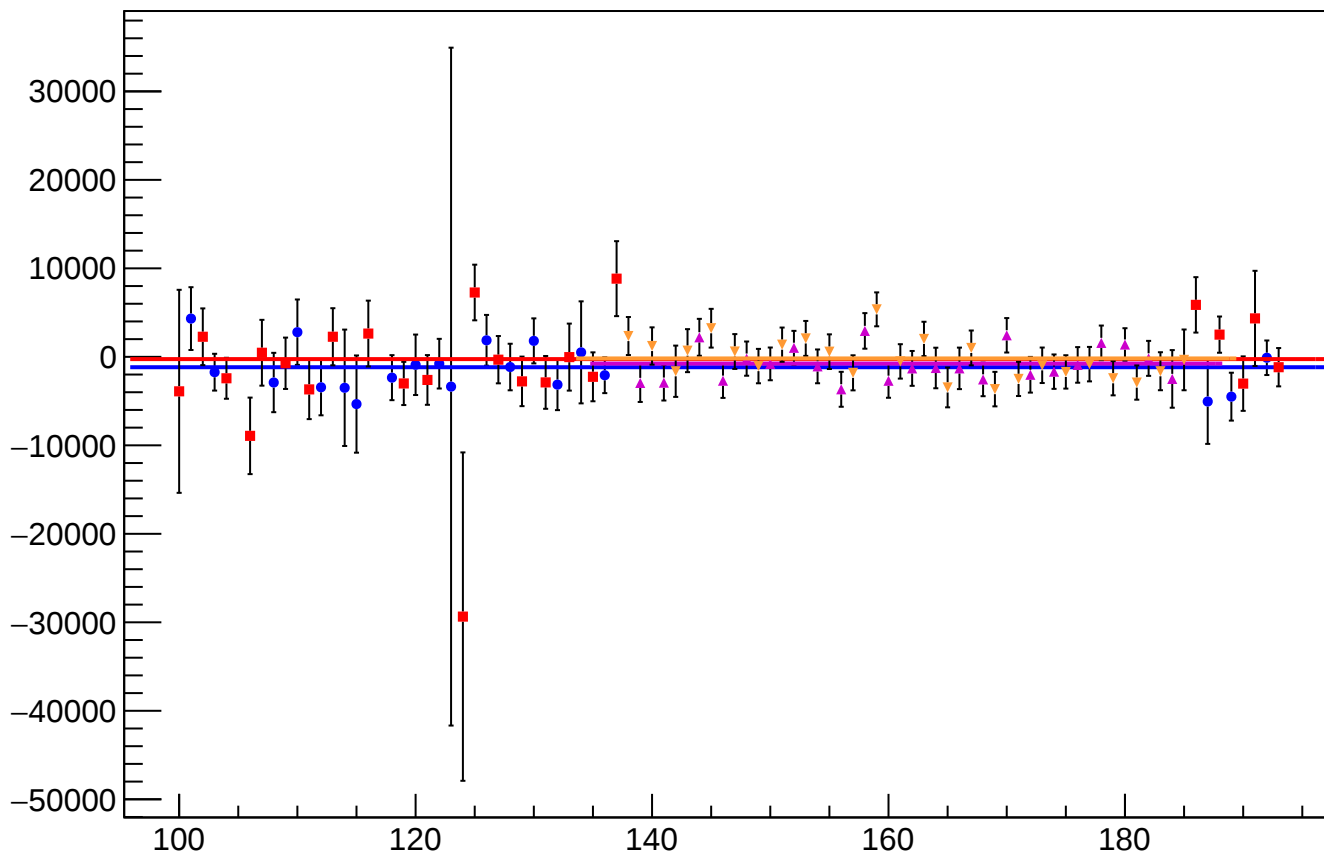
Right: 3933.466 ± 0.749 $\chi^2/\text{NDF}: 7142599.6/43$

In: 4735.972 ± 0.701 $\chi^2/\text{NDF}: 5289332.0/42$

Out: 4730.418 ± 0.673 $\chi^2/\text{NDF}: 5673347.8/48$

All: 4733.079 ± 0.485 $\chi^2/\text{NDF}: 10962712.5/90$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1173.420 ± 665.935 $\chi^2/\text{NDF}: 11.1/19$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: -255.278 ± 629.687 $\chi^2/\text{NDF}: 32.2/23$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

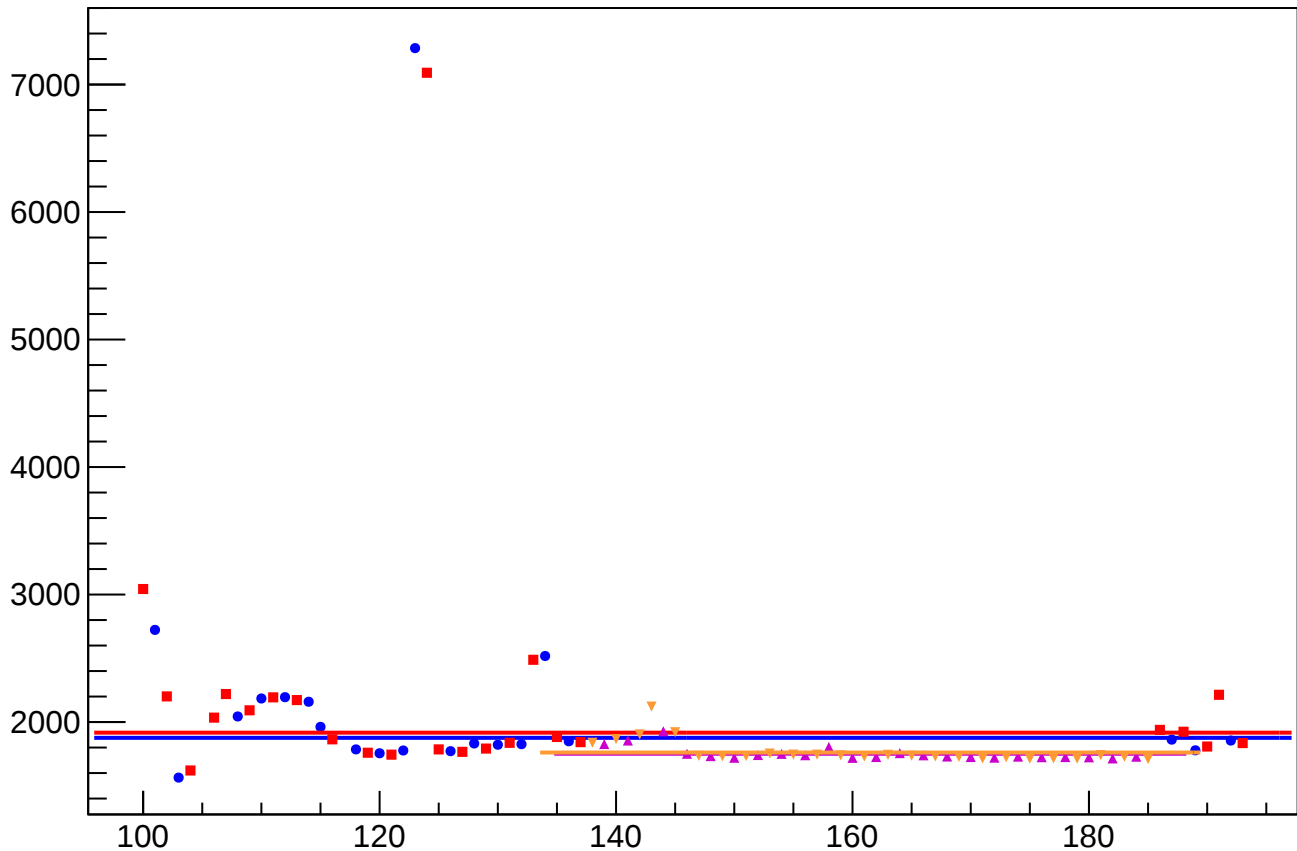
Right: -688.682 ± 457.534 $\chi^2/\text{NDF}: 44.3/43$

In: -877.435 ± 355.190 $\chi^2/\text{NDF}: 31.6/42$

Out: -202.343 ± 344.160 $\chi^2/\text{NDF}: 61.5/48$

All: -529.244 ± 247.165 $\chi^2/\text{NDF}: 94.9/91$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1876.229+/-0.471 χ^2/NDF : 282461.0/19

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1916.802+/-0.445 χ^2/NDF : 361367.0/23

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

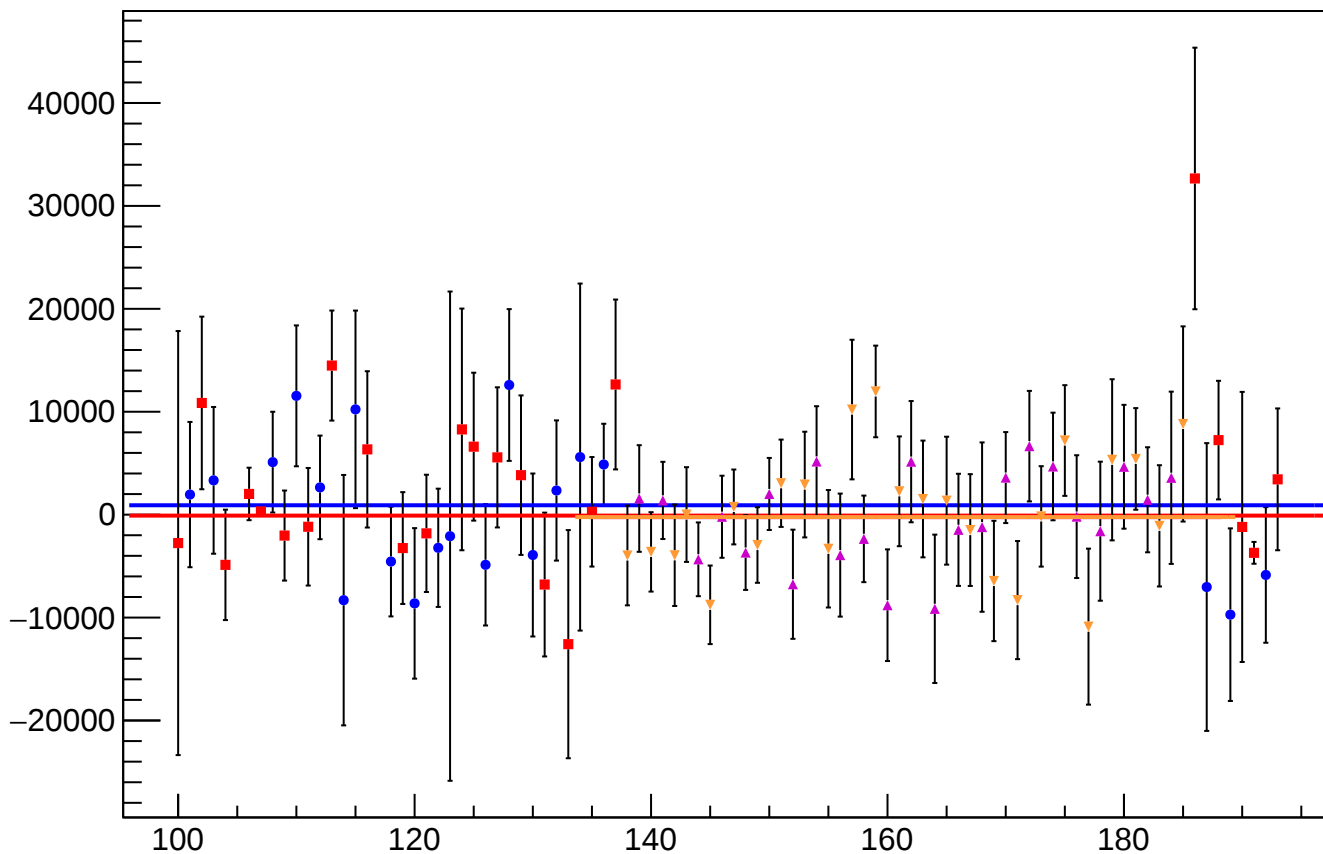
Right: 1897.673+/-0.323 χ^2/NDF : 647751.8/43

In: 1786.925+/-0.251 χ^2/NDF : 361308.2/42

Out: 1807.680+/-0.243 χ^2/NDF : 524737.9/48

All: 1797.633+/-0.175 χ^2/NDF : 889569.7/91

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 912.860 ± 1507.090 $\chi^2/\text{NDF}: 16.2/19$

Left Out: -235.806 ± 1005.144 $\chi^2/\text{NDF}: 28.9/24$

Right Out: -92.130 ± 414.861 $\chi^2/\text{NDF}: 39.8/23$

Left In: -239.224 ± 1028.883 $\chi^2/\text{NDF}: 15.3/22$

Left: -237.475 ± 718.990 $\chi^2/\text{NDF}: 44.2/47$

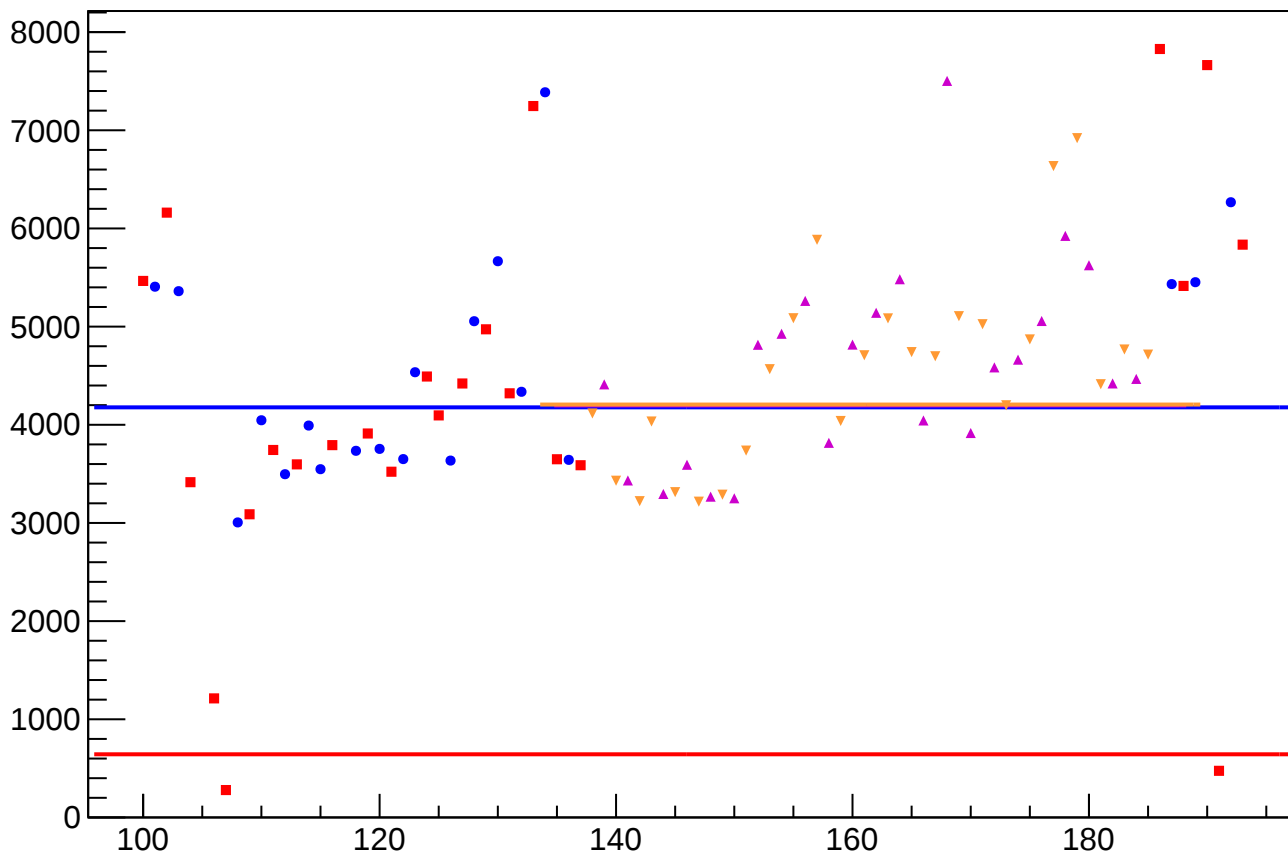
Right: -21.341 ± 399.984 $\chi^2/\text{NDF}: 56.4/43$

In: 127.030 ± 849.744 $\chi^2/\text{NDF}: 31.9/42$

Out: -113.043 ± 383.482 $\chi^2/\text{NDF}: 68.7/48$

All: -72.422 ± 349.536 $\chi^2/\text{NDF}: 100.6/91$

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4177.584 $\pm$ 1.066

χ^2 /NDF: 804288.8/19

Left: 4201.775 $\pm$ 0.508

χ^2 /NDF: 2913357.2/47

Left Out: 4206.076 $\pm$ 0.711

χ^2 /NDF: 1442269.3/24

Right: 892.347 $\pm$ 0.283

χ^2 /NDF: 25024594.0/43

Right Out: 643.407 $\pm$ 0.293

χ^2 /NDF: 13996640.8/23

In: 4191.010 $\pm$ 0.601

χ^2 /NDF: 2275534.4/42

Out: 1161.978 $\pm$ 0.271

χ^2 /NDF: 36907710.9/48

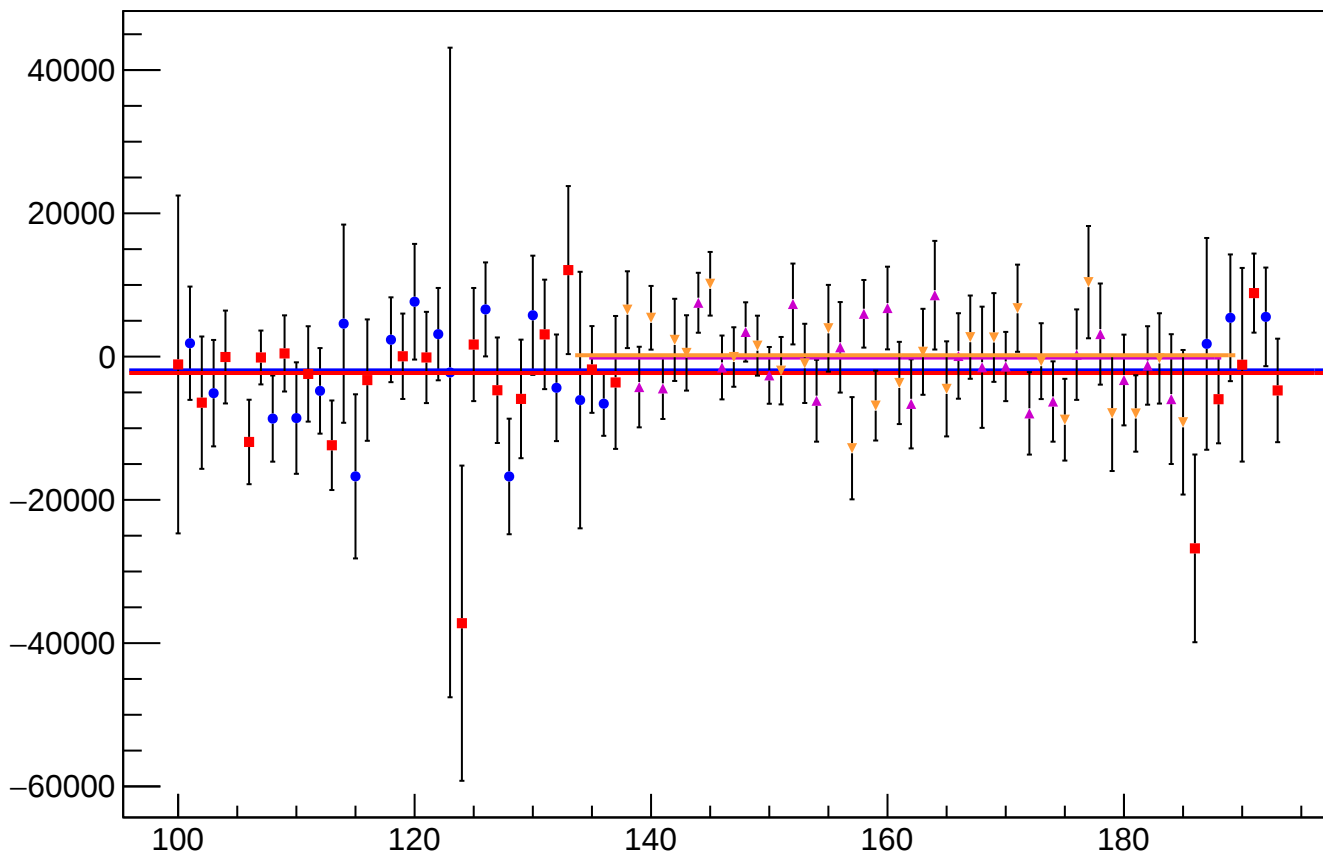
Left In: 4197.267 $\pm$ 0.728

χ^2 /NDF: 1471012.9/22

All: 1674.499 $\pm$ 0.247

χ^2 /NDF: 60296539.2/9

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1924.579 ± 1690.086 χ^2/NDF : 16.1/19

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2289.852 ± 1426.760 χ^2/NDF : 19.6/23

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

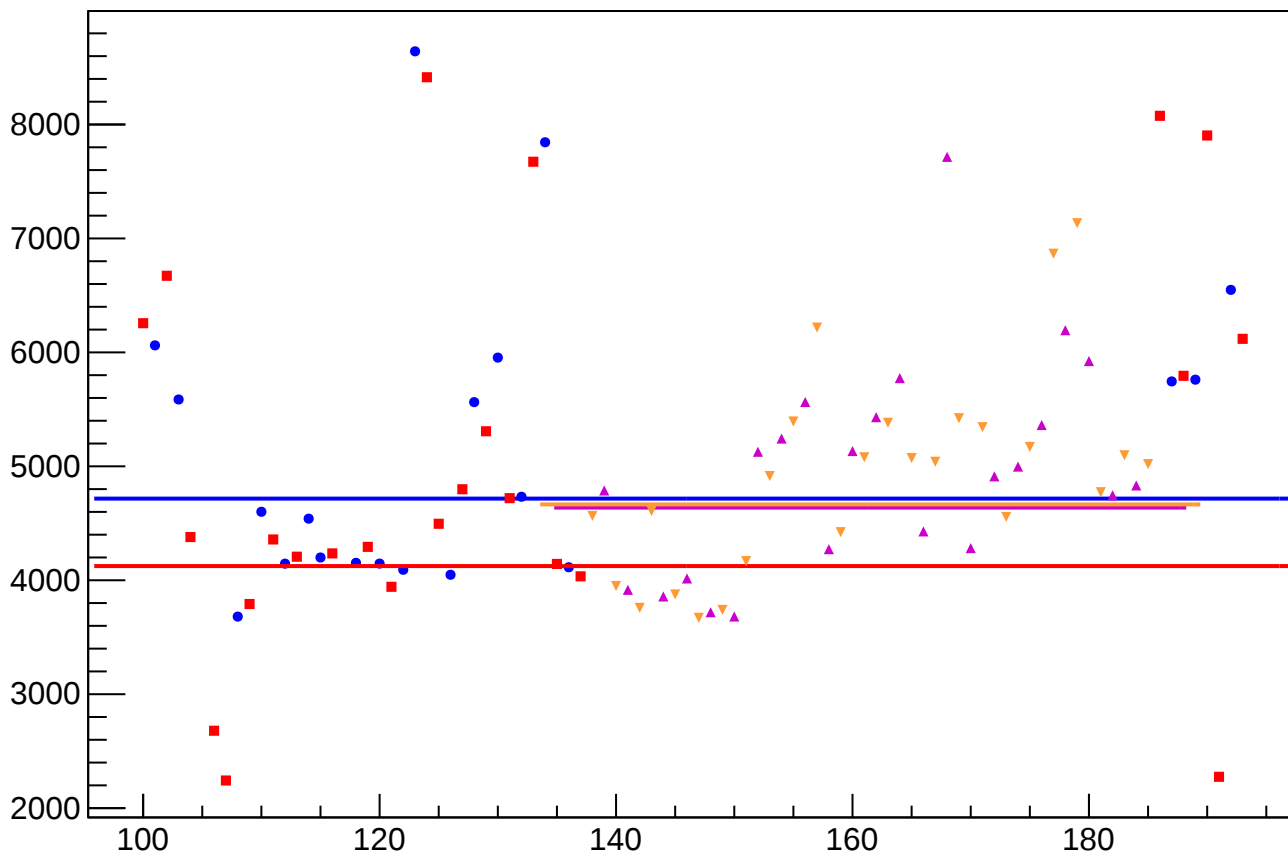
Right: -2137.857 ± 1090.222 χ^2/NDF : 35.8/43

In: -689.335 ± 939.178 χ^2/NDF : 35.5/42

Out: -741.893 ± 874.542 χ^2/NDF : 46.5/48

All: -717.485 ± 640.026 χ^2/NDF : 82.0/91

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4716.730+/-1.195 χ^2/NDF : 593040.5/19

Left Out: 4665.620+/-0.783 χ^2/NDF : 1017235.0/24

Right Out: 4124.619+/-1.004 χ^2/NDF : 2025127.9/23

Left In: 4637.777+/-0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

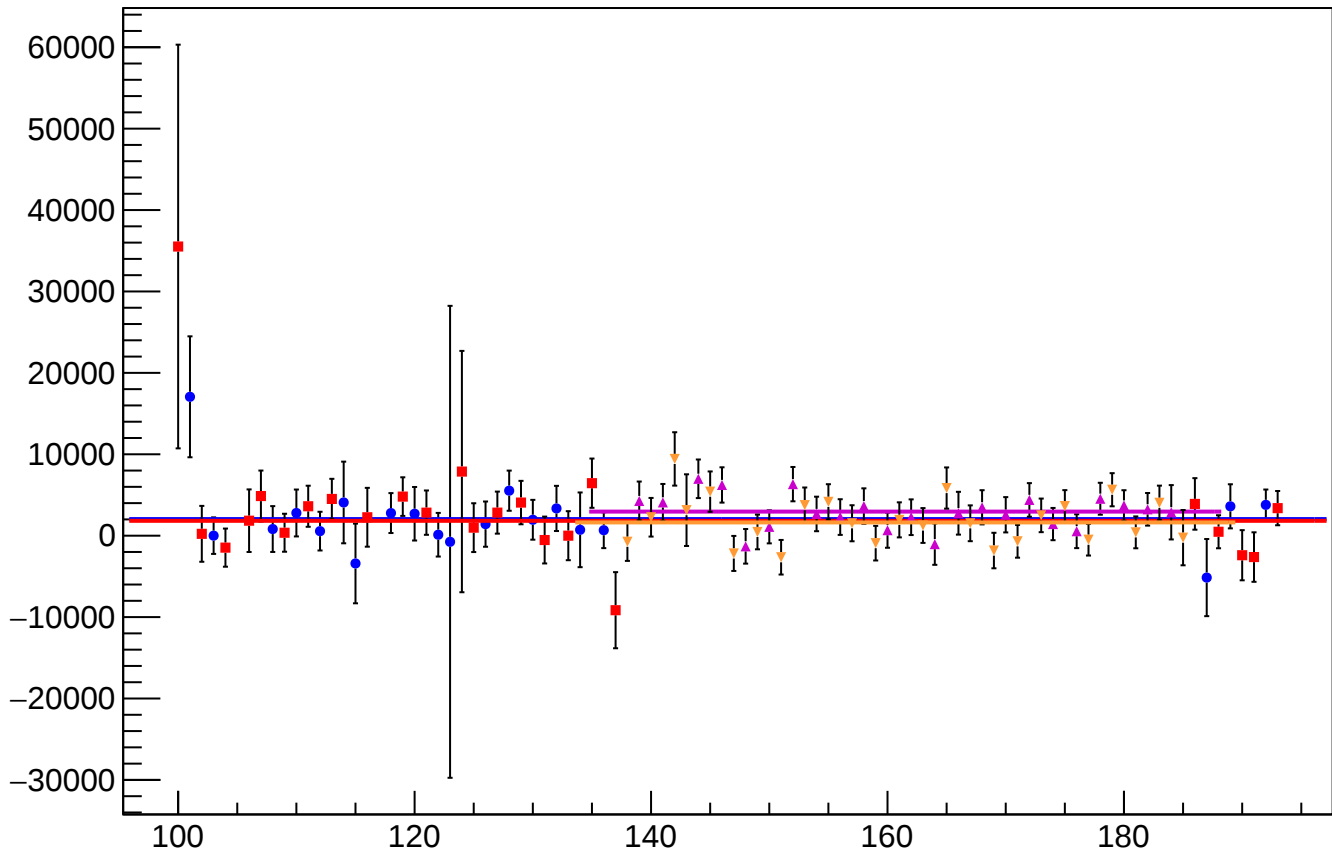
Right: 4369.491+/-0.769 χ^2/NDF : 2762129.1/43

In: 4662.158+/-0.664 χ^2/NDF : 1661274.5/42

Out: 4461.019+/-0.617 χ^2/NDF : 3223062.1/48

All: 4554.231+/-0.452 χ^2/NDF : 4933558.8/91

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2038.977+/-641.733 χ^2/NDF : 13.9/19

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 1827.215+/-586.528 χ^2/NDF : 24.2/23

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

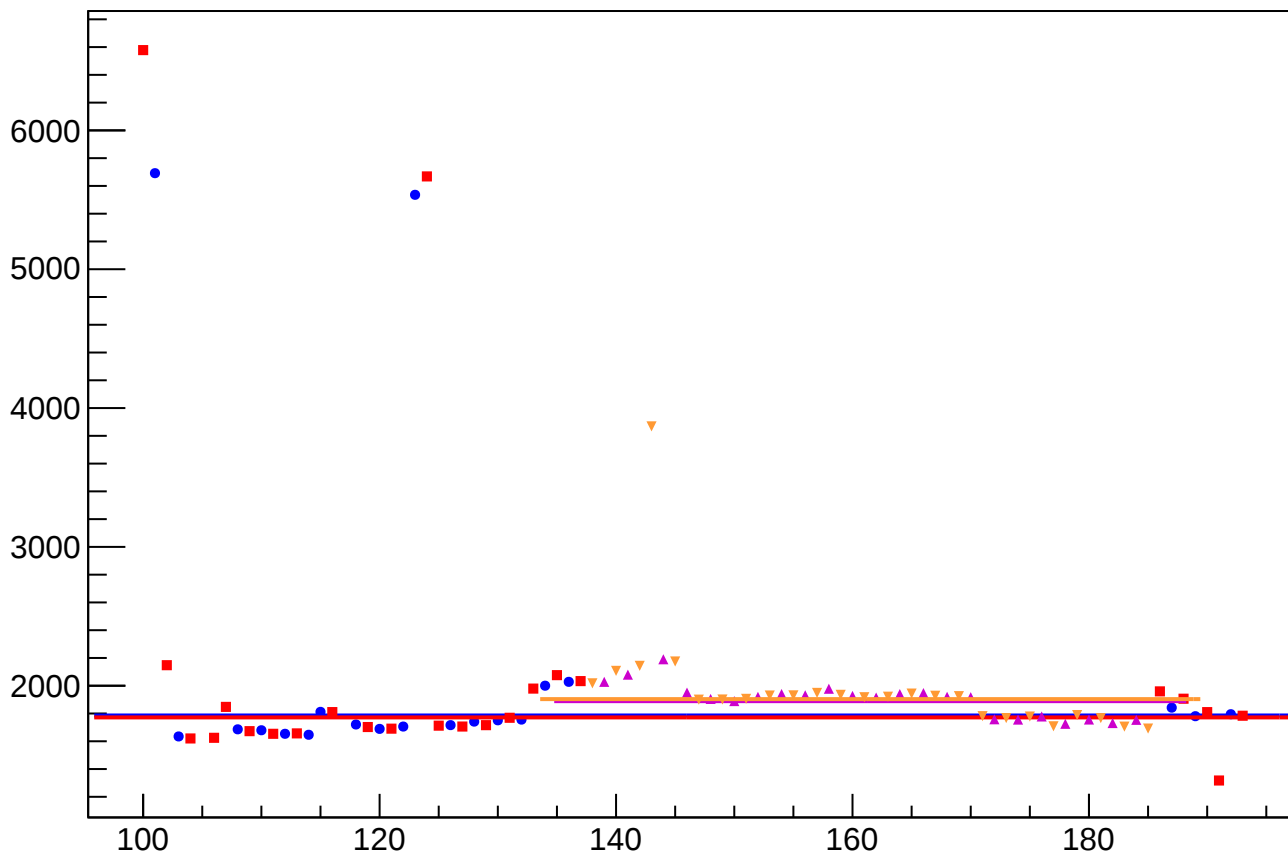
Right: 1923.598+/-432.942 χ^2/NDF : 38.1/43

In: 2652.150+/-370.458 χ^2/NDF : 35.6/42

Out: 1702.495+/-355.554 χ^2/NDF : 59.7/48

All: 2157.836+/-256.522 χ^2/NDF : 98.8/91

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.726+/-0.454 χ^2/NDF : 644985.0/19

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1771.834+/-0.413 χ^2/NDF : 366999.6/23

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

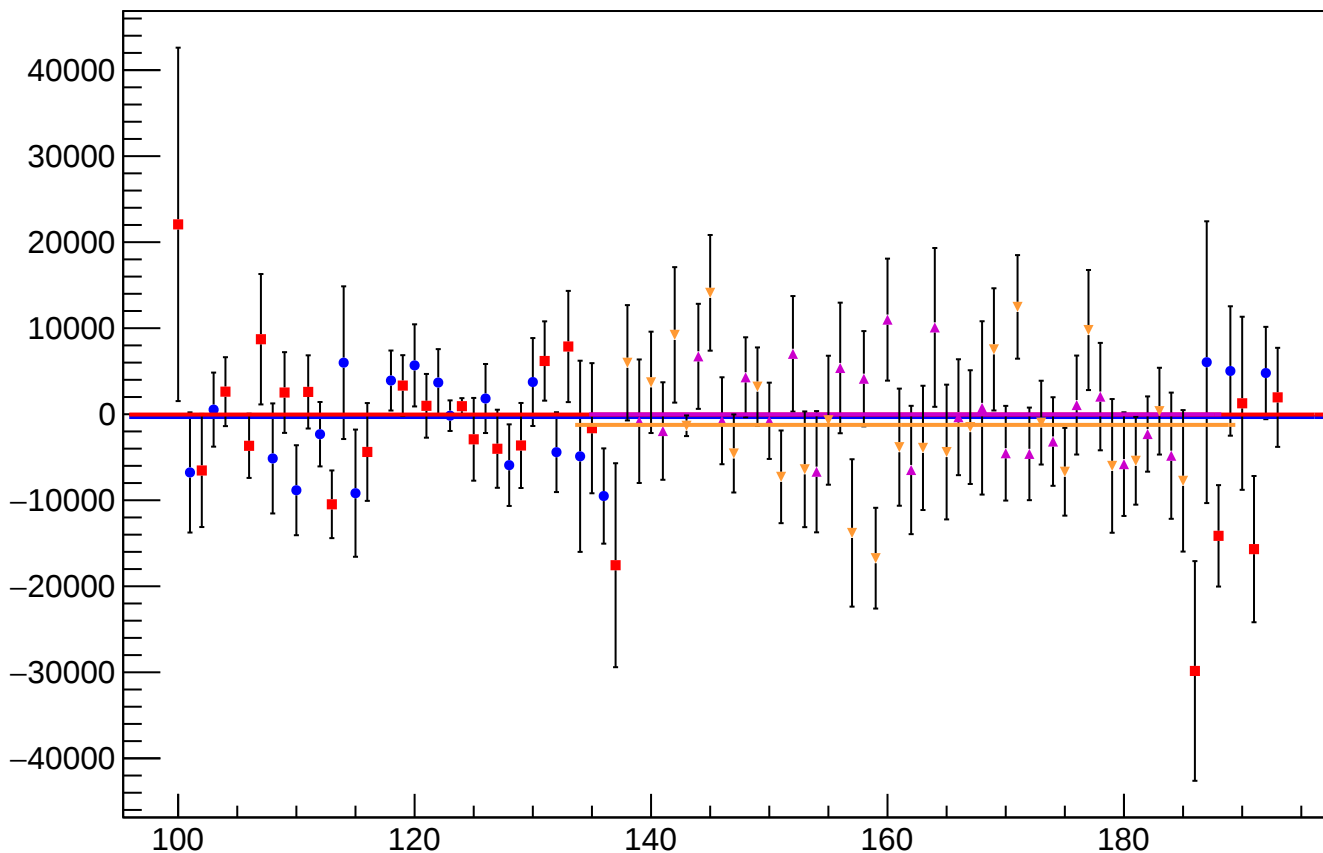
Right: 1778.122+/-0.305 χ^2/NDF : 1012497.5/43

In: 1854.535+/-0.262 χ^2/NDF : 805889.2/42

Out: 1854.880+/-0.251 χ^2/NDF : 972847.9/48

All: 1854.715+/-0.181 χ^2/NDF : 1778738.0/91

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -325.758 ± 983.182 $\chi^2/\text{NDF}: 18.0/19$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: -37.710 ± 709.471 $\chi^2/\text{NDF}: 37.1/23$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

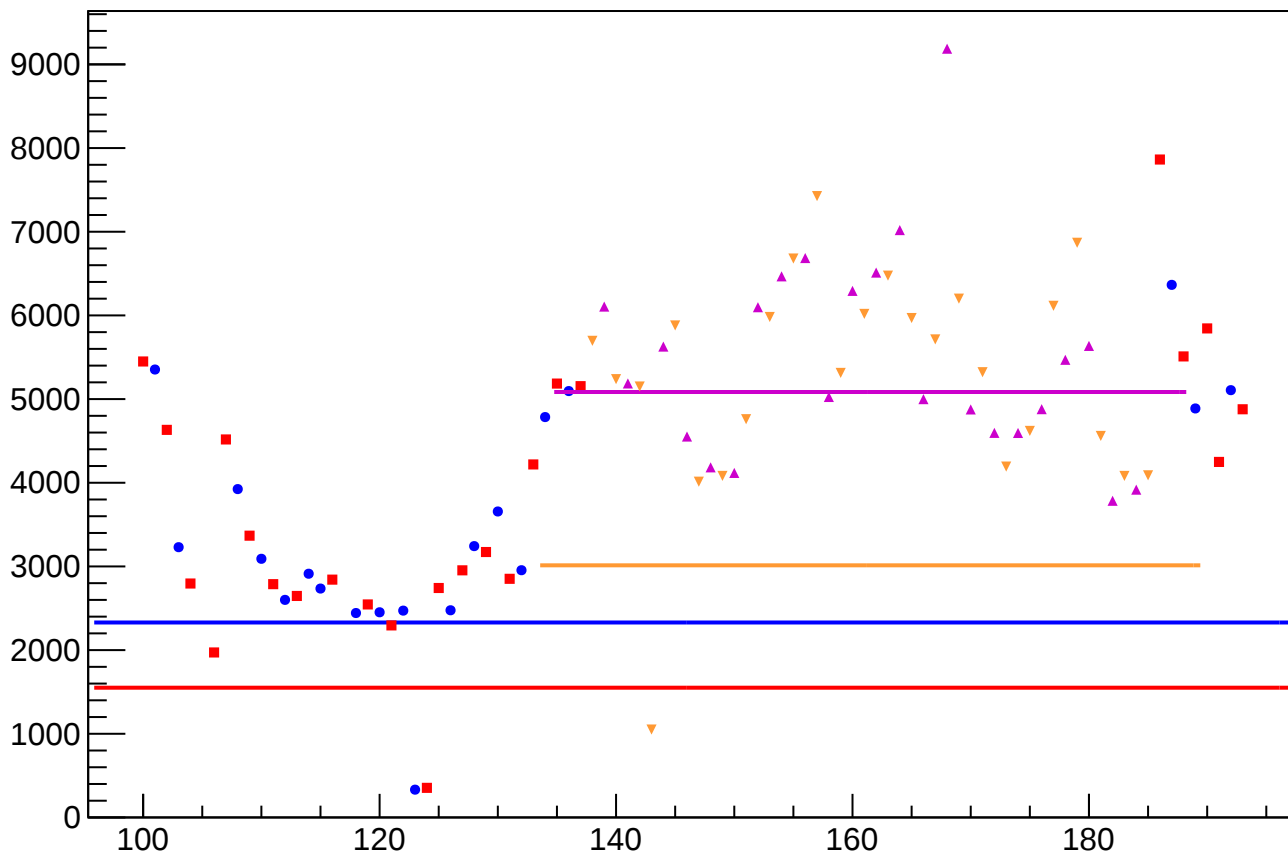
Right: -136.342 ± 575.321 $\chi^2/\text{NDF}: 55.2/43$

In: -206.530 ± 771.195 $\chi^2/\text{NDF}: 31.3/42$

Out: -521.036 ± 548.609 $\chi^2/\text{NDF}: 72.2/48$

All: -415.358 ± 447.036 $\chi^2/\text{NDF}: 103.6/91$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2330.028 $\pm$ 0.695 χ^2 /NDF: 4916305.2/19

Left Out: 3013.268 $\pm$ 0.612 χ^2 /NDF: 12270753.9/24

Right Out: 1550.697 $\pm$ 0.502 χ^2 /NDF: 9579958.2/23

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

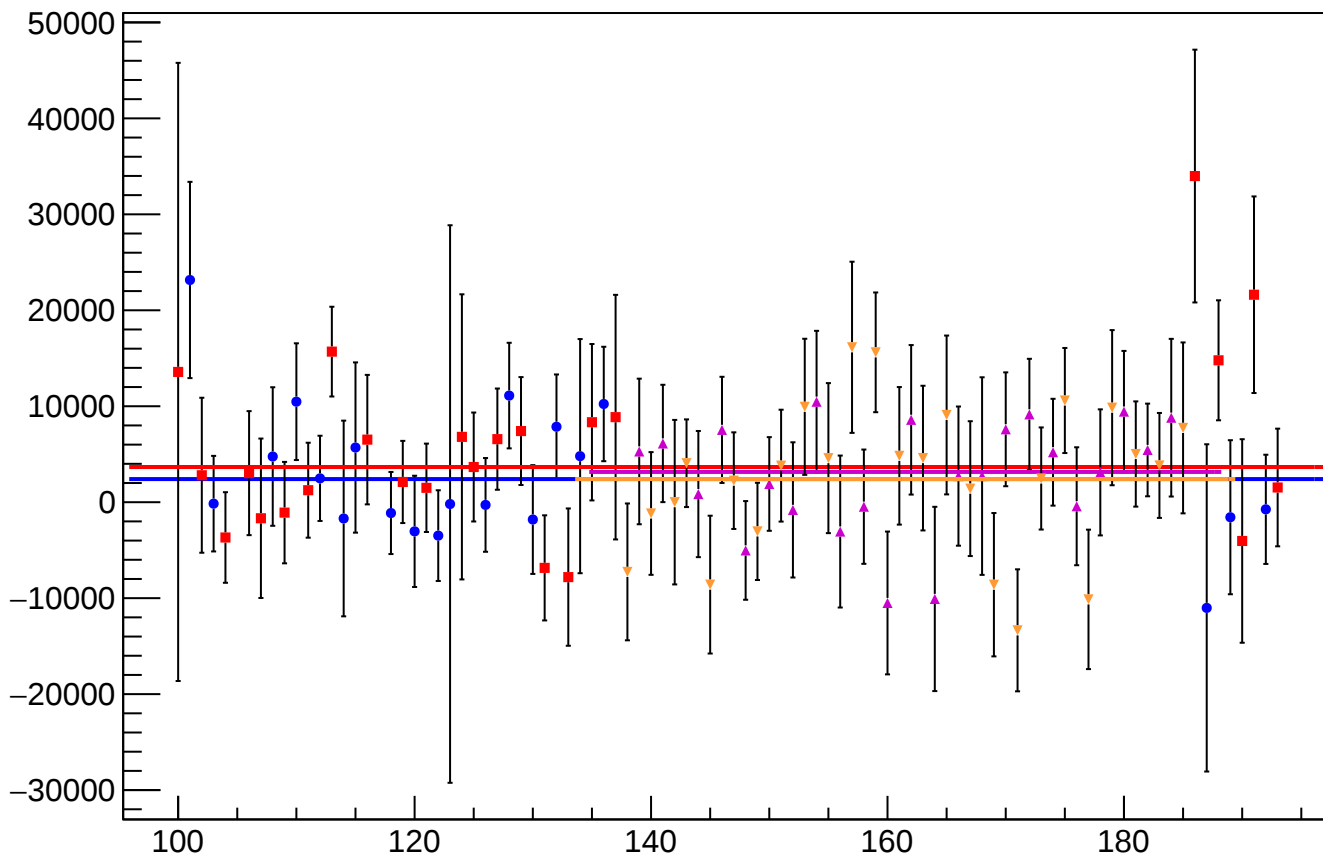
Right: 1817.552 $\pm$ 0.407 χ^2 /NDF: 15322602.6/43

In: 3389.832 $\pm$ 0.545 χ^2 /NDF: 12260060.9/42

Out: 2138.740 $\pm$ 0.388 χ^2 /NDF: 25268039.7/48

All: 2559.124 $\pm$ 0.316 χ^2 /NDF: 41023036.8/95

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2409.810+/-1381.386 χ^2/NDF : 17.0/19

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 3668.321+/-1291.816 χ^2/NDF : 30.9/23

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

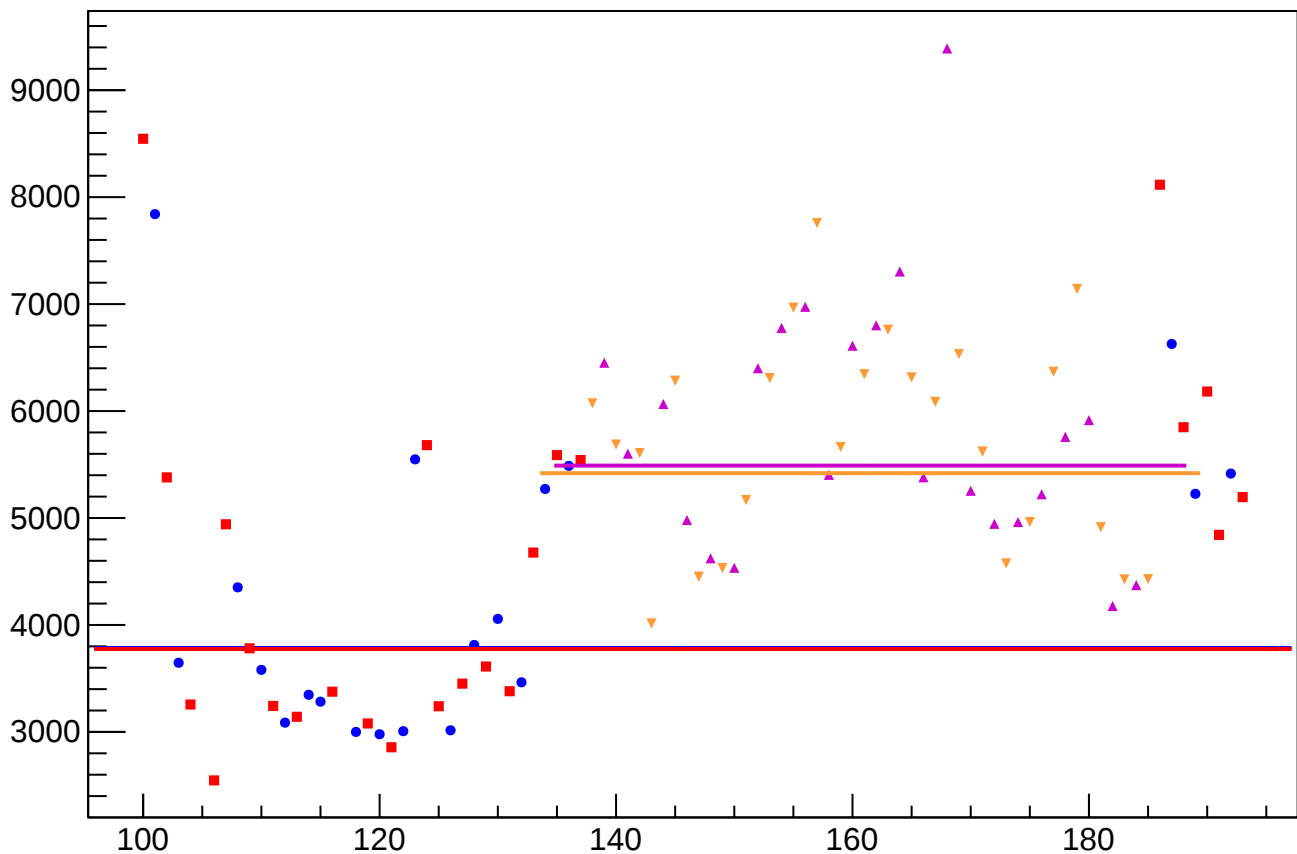
Right: 3081.187+/-943.529 χ^2/NDF : 48.3/43

In: 2793.663+/-960.851 χ^2/NDF : 32.6/42

Out: 3040.177+/-911.560 χ^2/NDF : 61.2/48

All: 2923.405+/-661.309 χ^2/NDF : 93.9/91

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3784.095 $\pm$ 0.977 χ^2 /NDF: 1096518.5/19

Left Out: 5419.305 $\pm$ 0.910 χ^2 /NDF: 1109972.1/24

Right Out: 3774.884 $\pm$ 0.902 χ^2 /NDF: 1411907.5/23

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

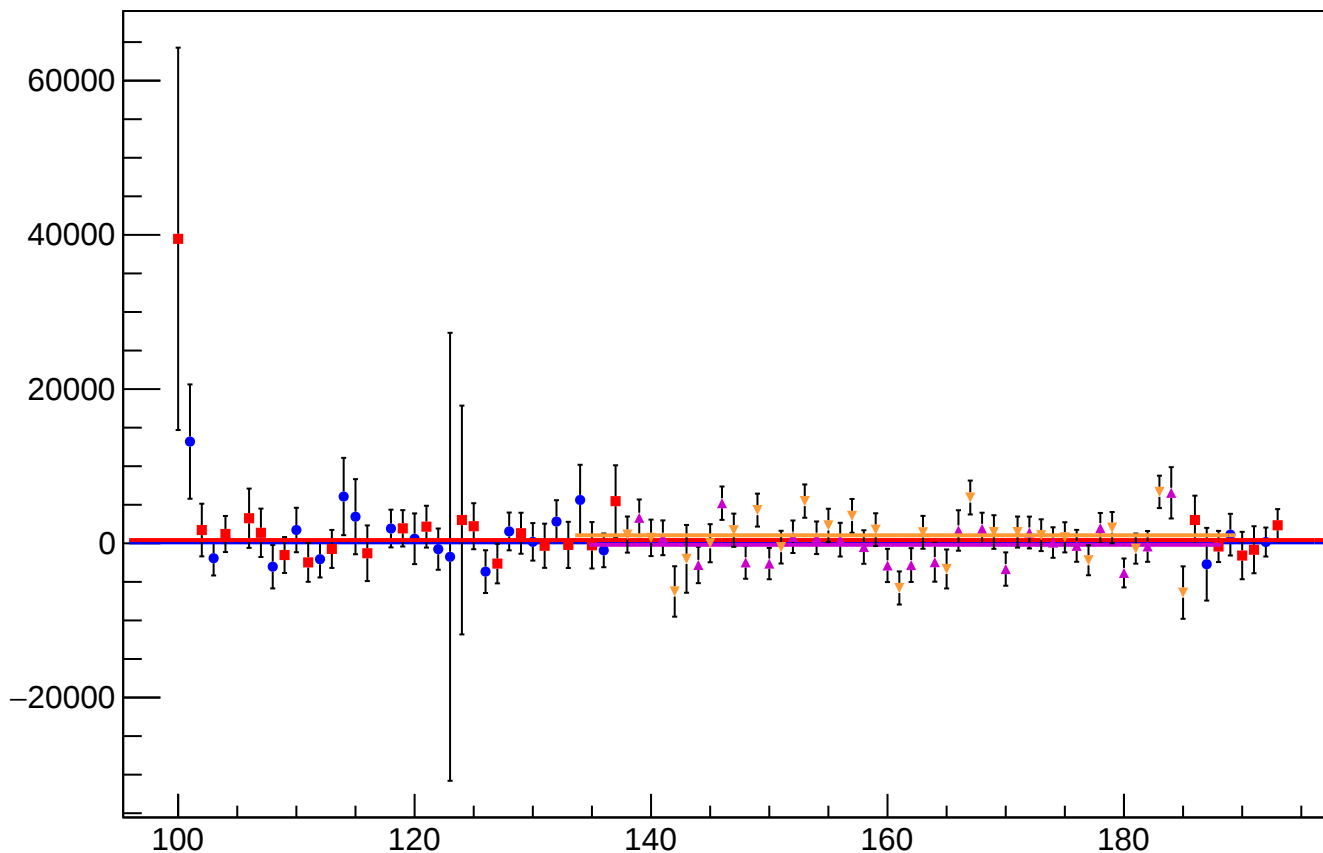
Right: 3779.124 $\pm$ 0.663 χ^2 /NDF: 2508474.0/43

In: 4664.589 $\pm$ 0.679 χ^2 /NDF: 3735061.2/42

Out: 4590.383 $\pm$ 0.641 χ^2 /NDF: 4169090.5/48

All: 4625.306 $\pm$ 0.466 χ^2 /NDF: 7910466.5/91

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 126.336+/-639.837 χ^2/NDF : 14.2/19

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: 422.997+/-584.615 χ^2/NDF : 12.2/23

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

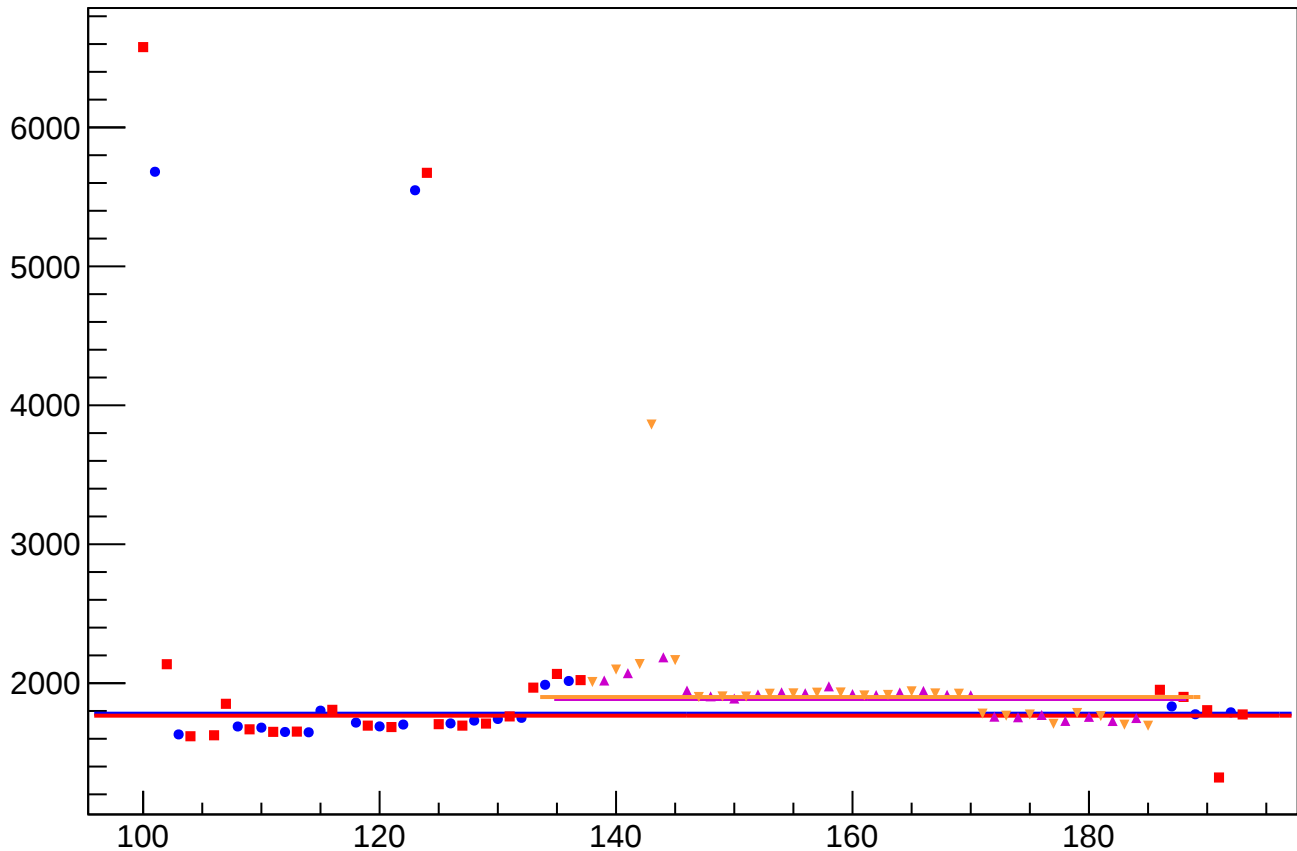
Right: 288.019+/-431.590 χ^2/NDF : 26.6/43

In: -85.671+/-369.748 χ^2/NDF : 44.4/42

Out: 813.646+/-354.718 χ^2/NDF : 61.5/48

All: 382.637+/-255.972 χ^2/NDF : 108.9/91

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.510+/-0.452 χ^2/NDF : 643308.7/19

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1766.263+/-0.411 χ^2/NDF : 364331.1/23

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

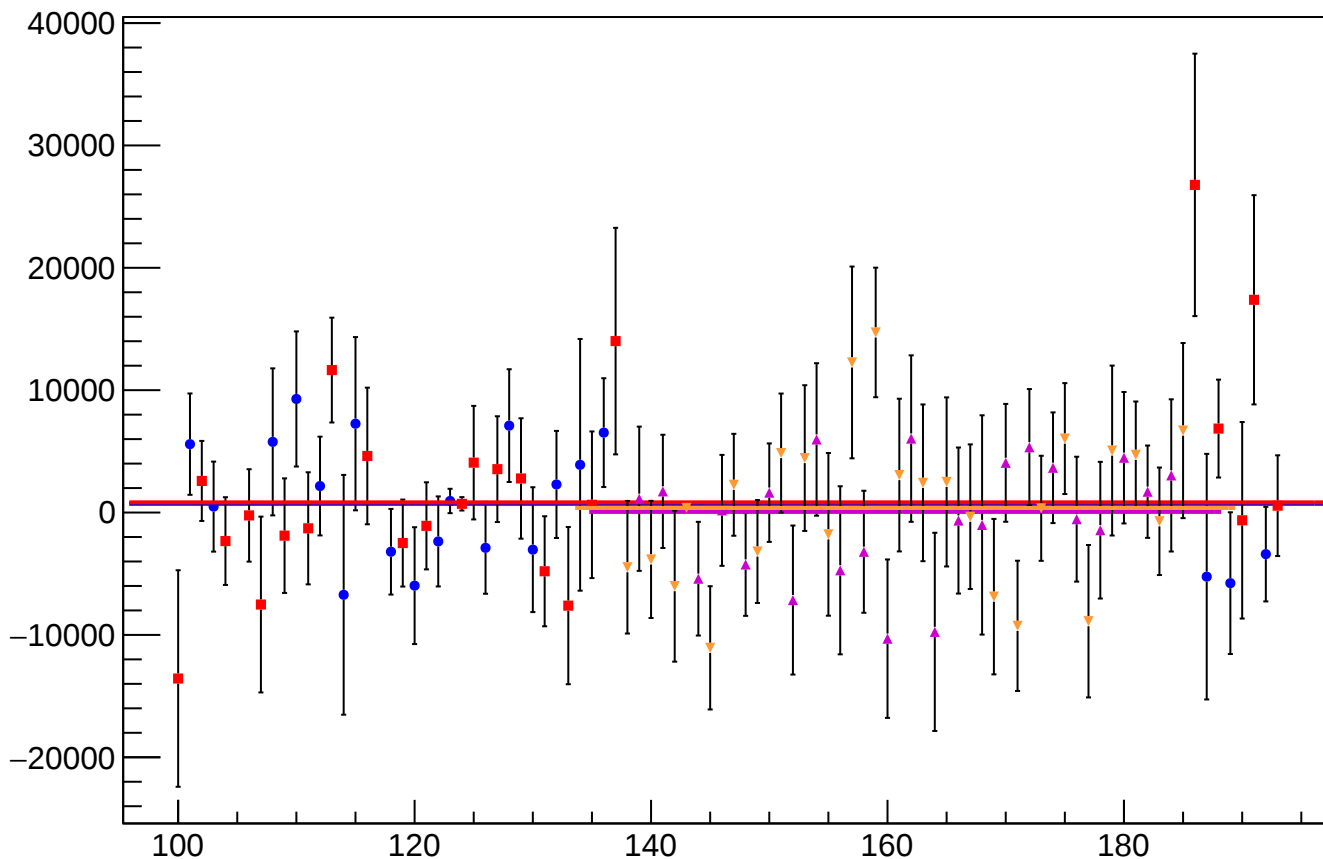
Right: 1772.710+/-0.304 χ^2/NDF : 1008182.7/43

In: 1851.024+/-0.261 χ^2/NDF : 803298.8/42

Out: 1850.637+/-0.250 χ^2/NDF : 969068.9/48

All: 1850.822+/-0.181 χ^2/NDF : 1772368.8/91

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 716.242 $\pm$ 731.503 χ^2 /NDF: 18.1/19

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 832.072 $\pm$ 479.253 χ^2 /NDF: 32.0/23

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

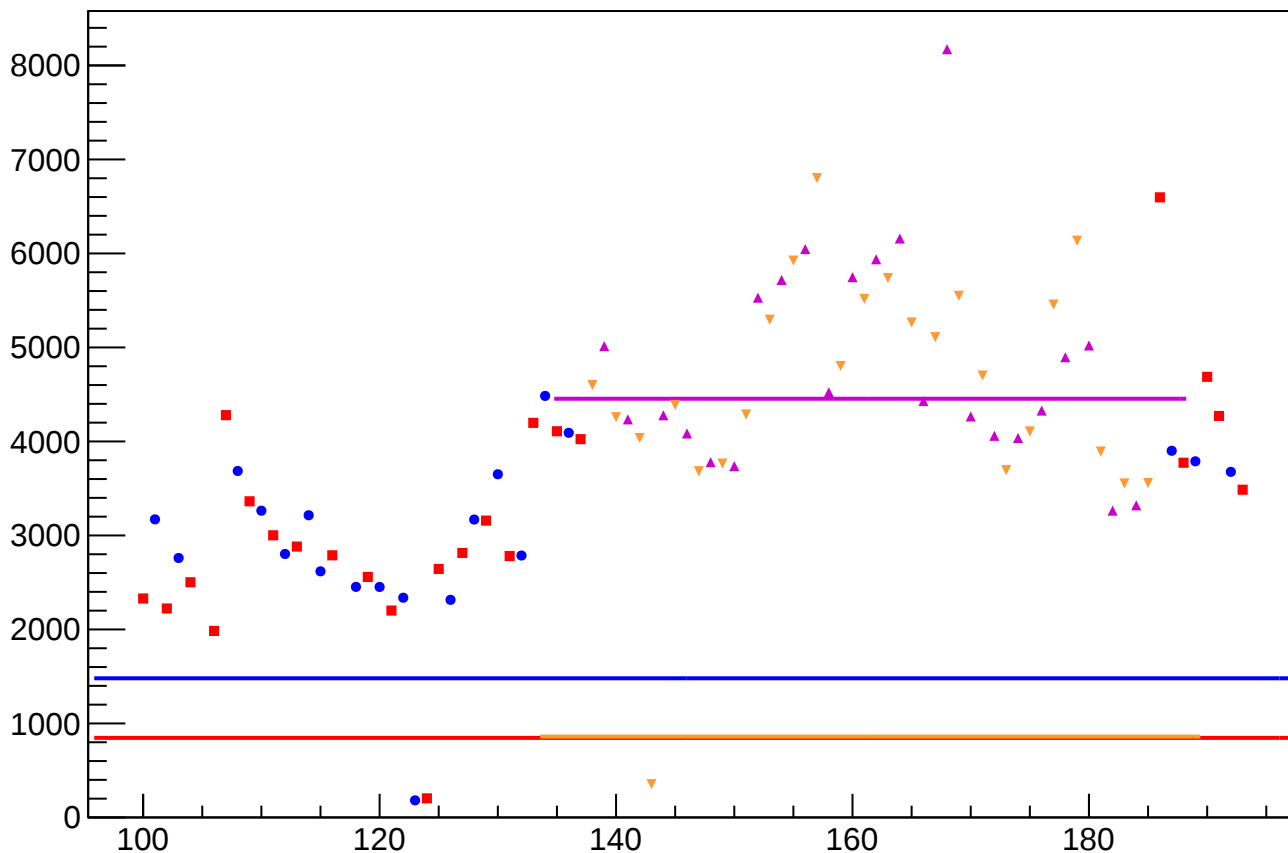
Right: 797.285 $\pm$ 400.878 χ^2 /NDF: 50.1/43

In: 510.290 $\pm$ 607.381 χ^2 /NDF:32.9/42

Out: 551.560 $\pm$ 298.752 χ^2 /NDF:63.4/48

All: 543.521 $\pm$ 268.078 χ^2 /NDF: 96.3/91

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1480.599 $\pm$ 0.517 χ^2 /NDF: 7980533.6/19

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 846.488 $\pm$ 0.339 χ^2 /NDF: 12845069.0/23

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

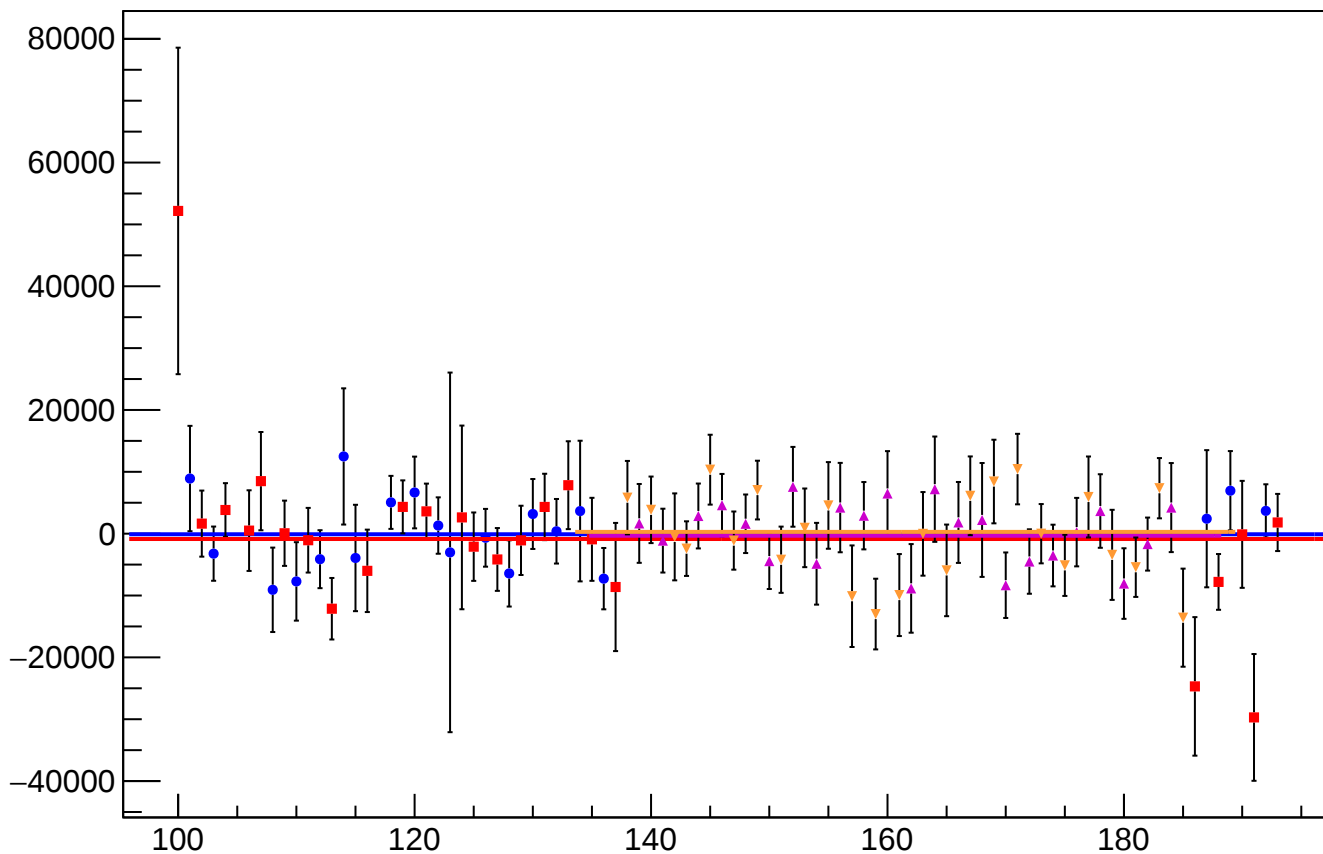
Right: 1036.928 $\pm$ 0.283 χ^2 /NDF: 21877137.3/43

In: 2404.173 $\pm$ 0.429 χ^2 /NDF: 19595814.3/42

Out: 855.083 $\pm$ 0.211 χ^2 /NDF: 39186227.5/48

All: 1156.853 $\pm$ 0.190 χ^2 /NDF: 69257222.2/95

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -97.331 ± 1294.596 χ^2/NDF : 16.0/19

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -863.730 ± 1204.401 χ^2/NDF : 33.8/23

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

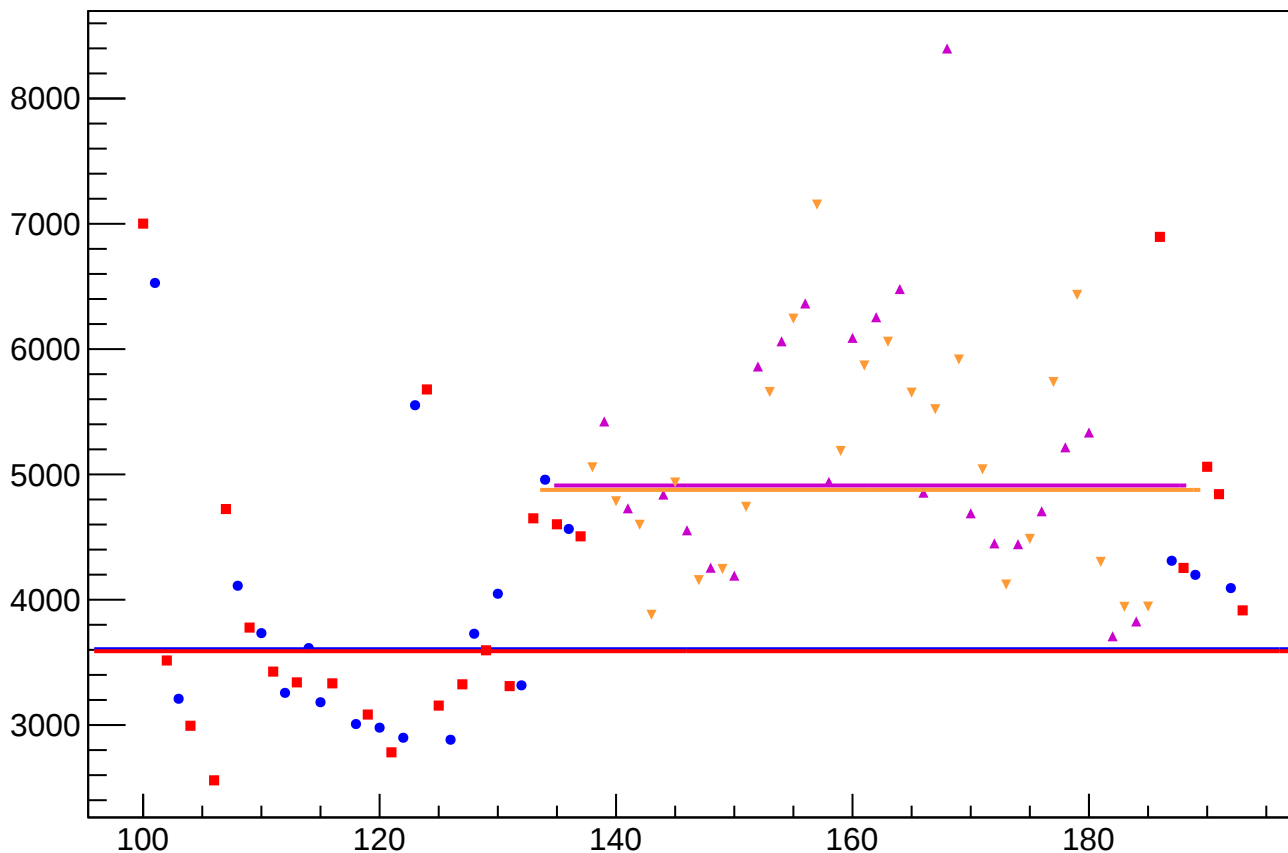
Right: -508.156 ± 881.804 χ^2/NDF : 49.9/43

In: -224.203 ± 878.495 χ^2/NDF : 30.6/42

Out: -263.705 ± 833.783 χ^2/NDF : 66.6/48

All: -244.985 ± 604.763 χ^2/NDF : 97.3/91

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3604.973+/-0.915 χ^2/NDF : 620276.0/19

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3589.217+/-0.843 χ^2/NDF : 782951.8/23

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

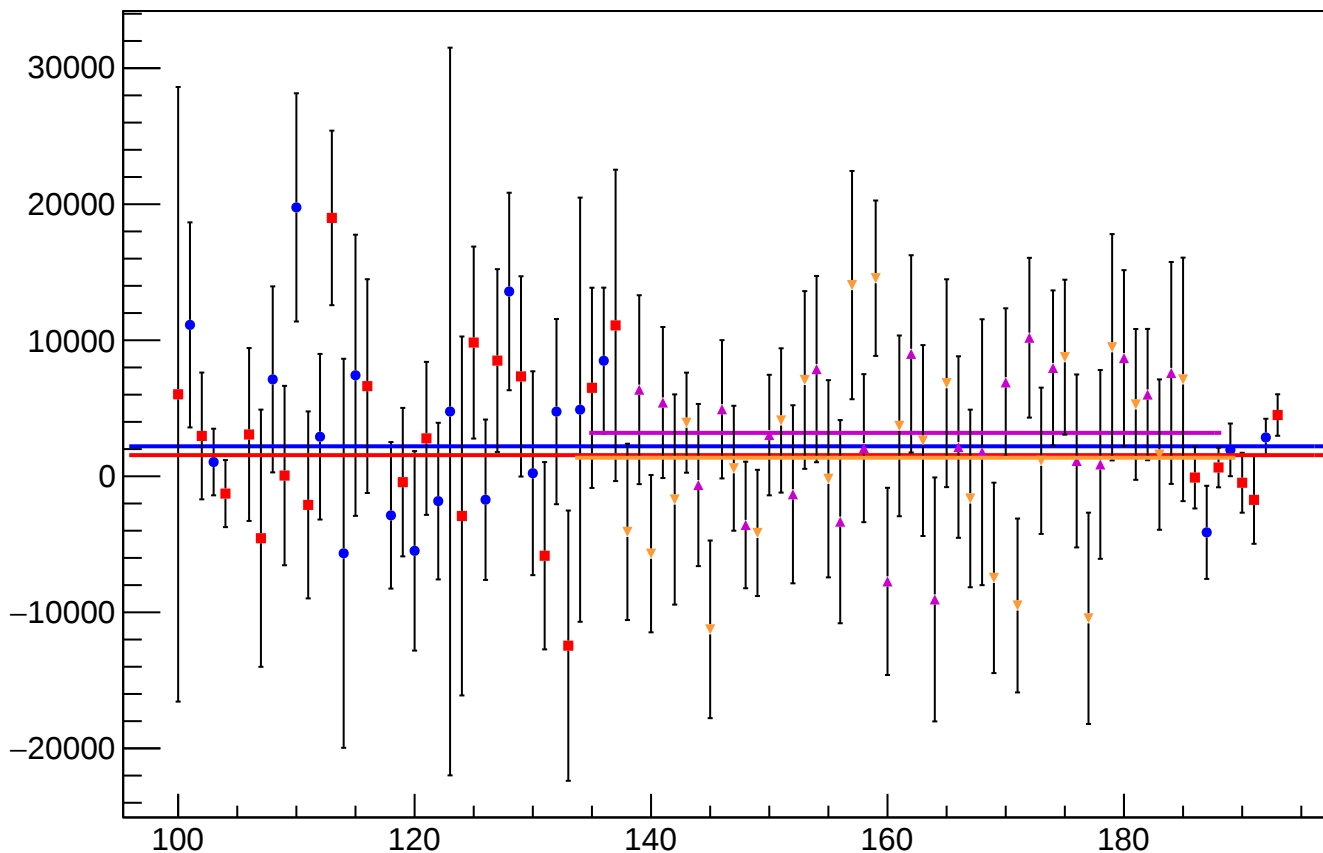
Right: 3596.443+/-0.620 χ^2/NDF : 1403388.2/43

In: 4309.893+/-0.621 χ^2/NDF : 2762547.5/42

Out: 4252.713+/-0.587 χ^2/NDF : 2958650.4/48

All: 4279.664+/-0.426 χ^2/NDF : 5725677.3/91

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2205.007+/-859.110 χ^2/NDF : 17.8/19

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1554.929+/-721.945 χ^2/NDF : 24.2/23

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

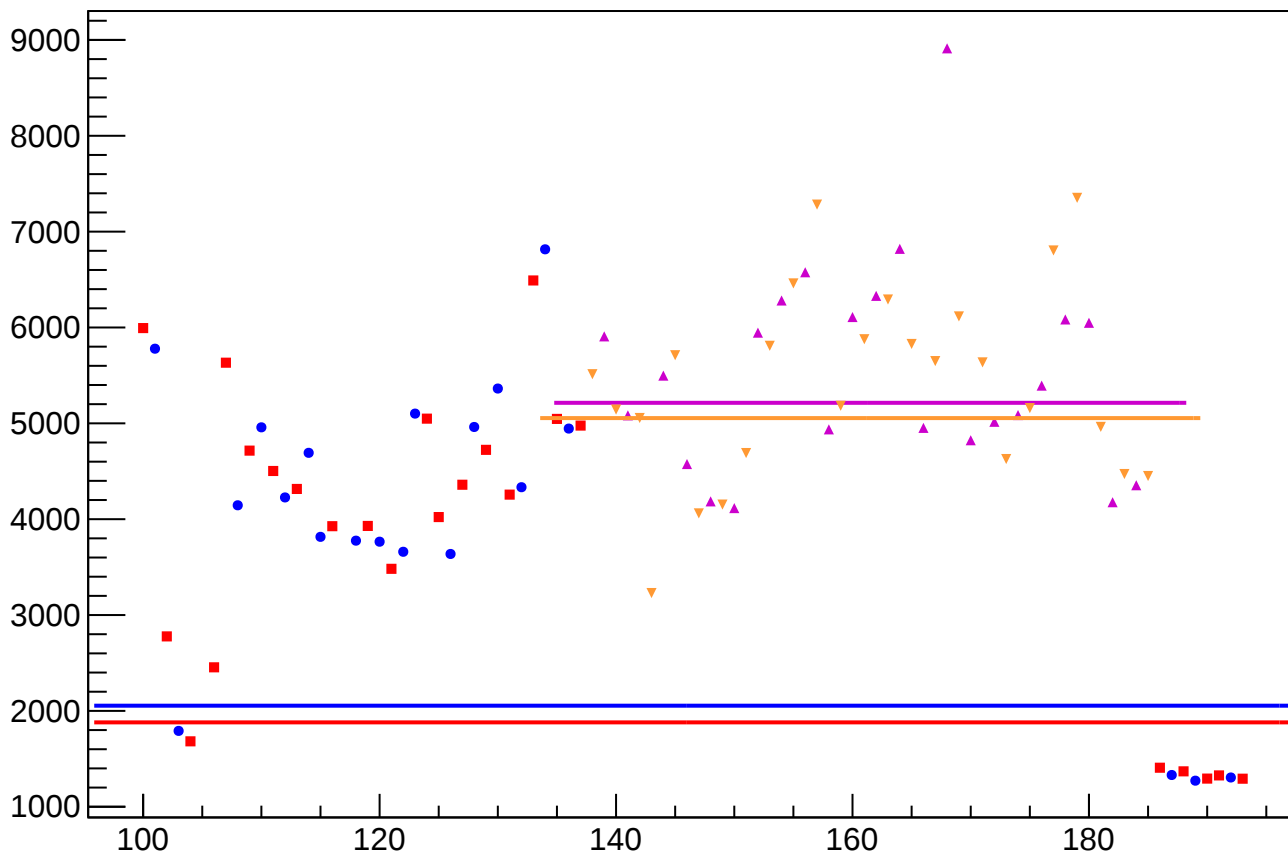
Right: 1823.992+/-552.704 χ^2/NDF : 42.3/43

In: 2514.595+/-711.592 χ^2/NDF : 32.2/42

Out: 1504.860+/-619.474 χ^2/NDF : 52.2/48

All: 1940.181+/-467.231 χ^2/NDF : 85.5/91

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2054.290+/-0.607 χ^2/NDF : 4670423.7/19

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1880.173+/-0.509 χ^2/NDF : 4906396.4/23

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

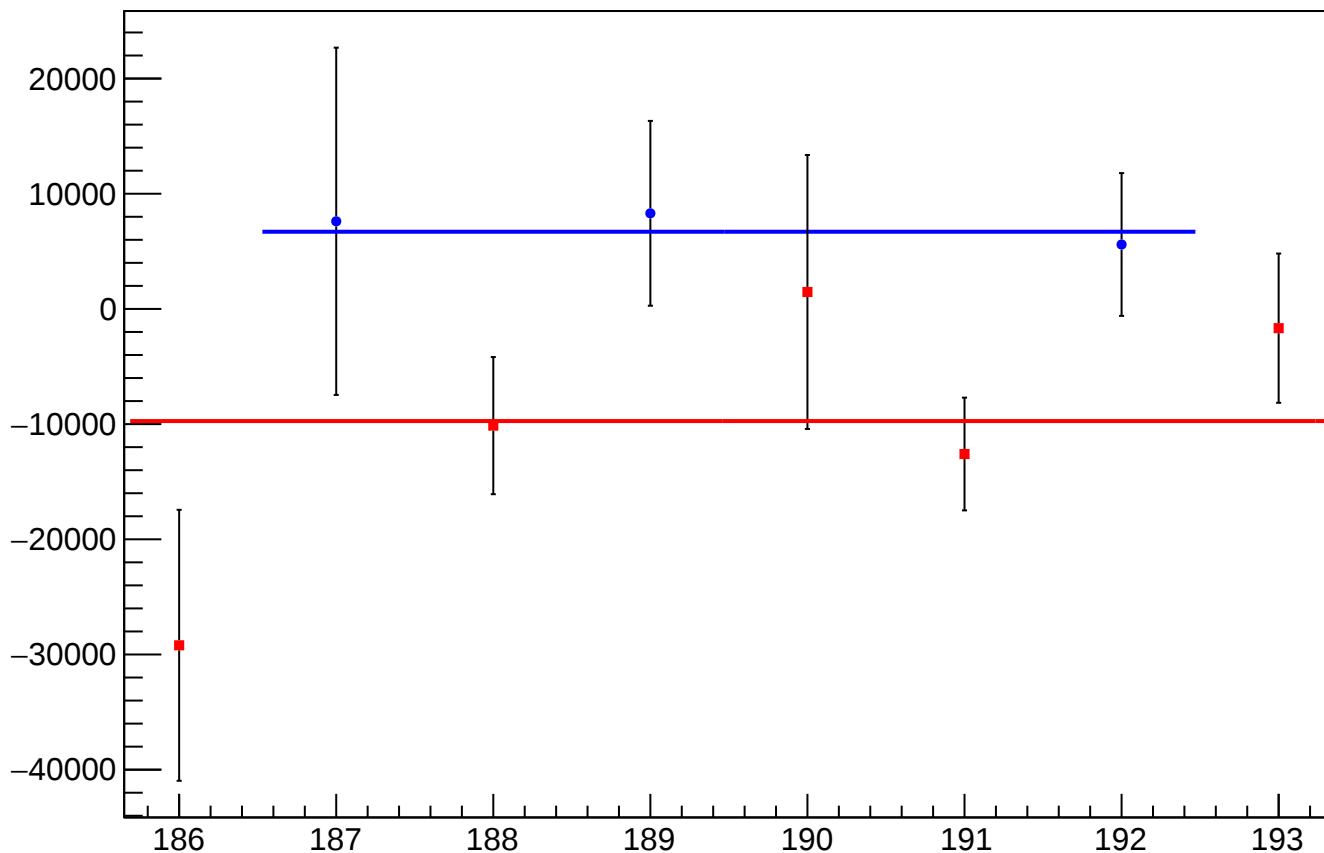
Right: 1952.027+/-0.390 χ^2/NDF : 9625071.0/43

In: 3046.261+/-0.503 χ^2/NDF : 14216739.2/42

Out: 2714.285+/-0.437 χ^2/NDF : 16555793.3/48

All: 2857.106+/-0.330 χ^2/NDF : 31020558.1/95

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 6701.763+/-4663.654 χ^2/NDF : 0.1/2

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: -9734.330+/-3041.735 χ^2/NDF : 5.5/4

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

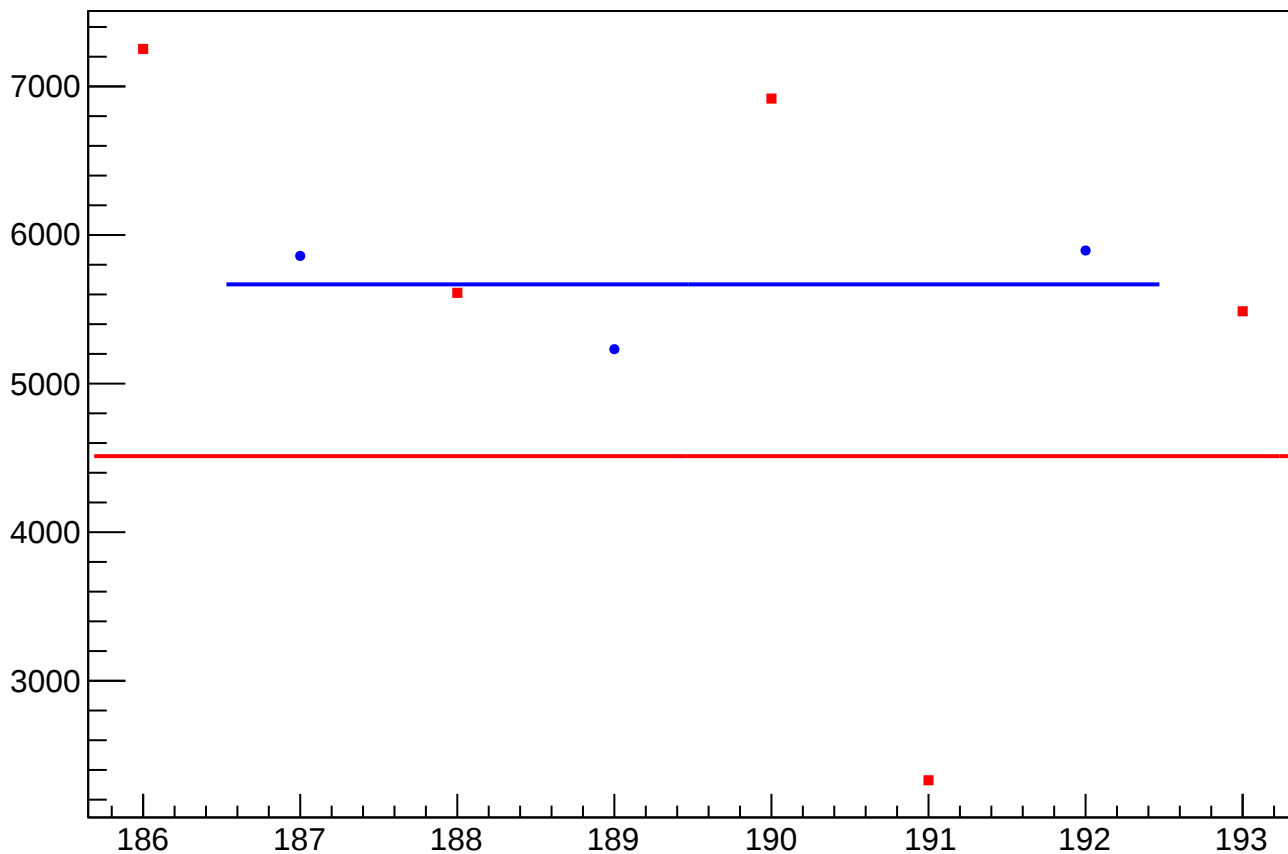
Right: -4829.160+/-2547.734 χ^2/NDF : 14.3/7

In: 6701.763+/-4663.654 χ^2/NDF :0.1/2

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: -4829.160+/-2547.734 χ^2/NDF : 14.3/7

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5667.780+/-3.298 χ^2/NDF : 8941.3/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4511.570+/-2.151 χ^2/NDF : 701235.3/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

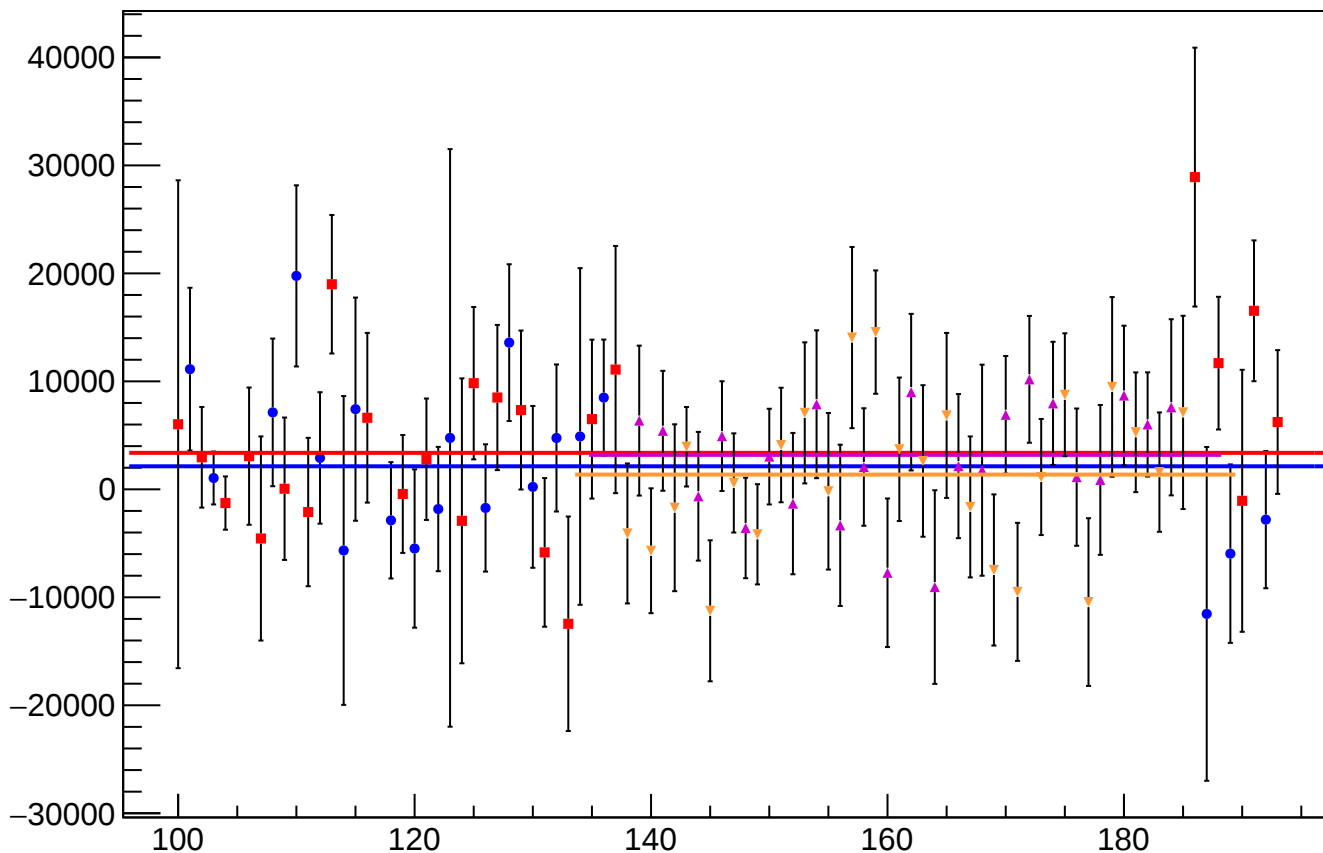
Right: 4856.628+/-1.802 χ^2/NDF : 796418.1/7

In: 5667.780+/-3.298 χ^2/NDF : 8941.3/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4856.628+/-1.802 χ^2/NDF : 796418.1/7

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2133.008+/-1392.989 χ^2/NDF : 16.5/19

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3379.617+/-1281.996 χ^2/NDF : 29.4/23

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

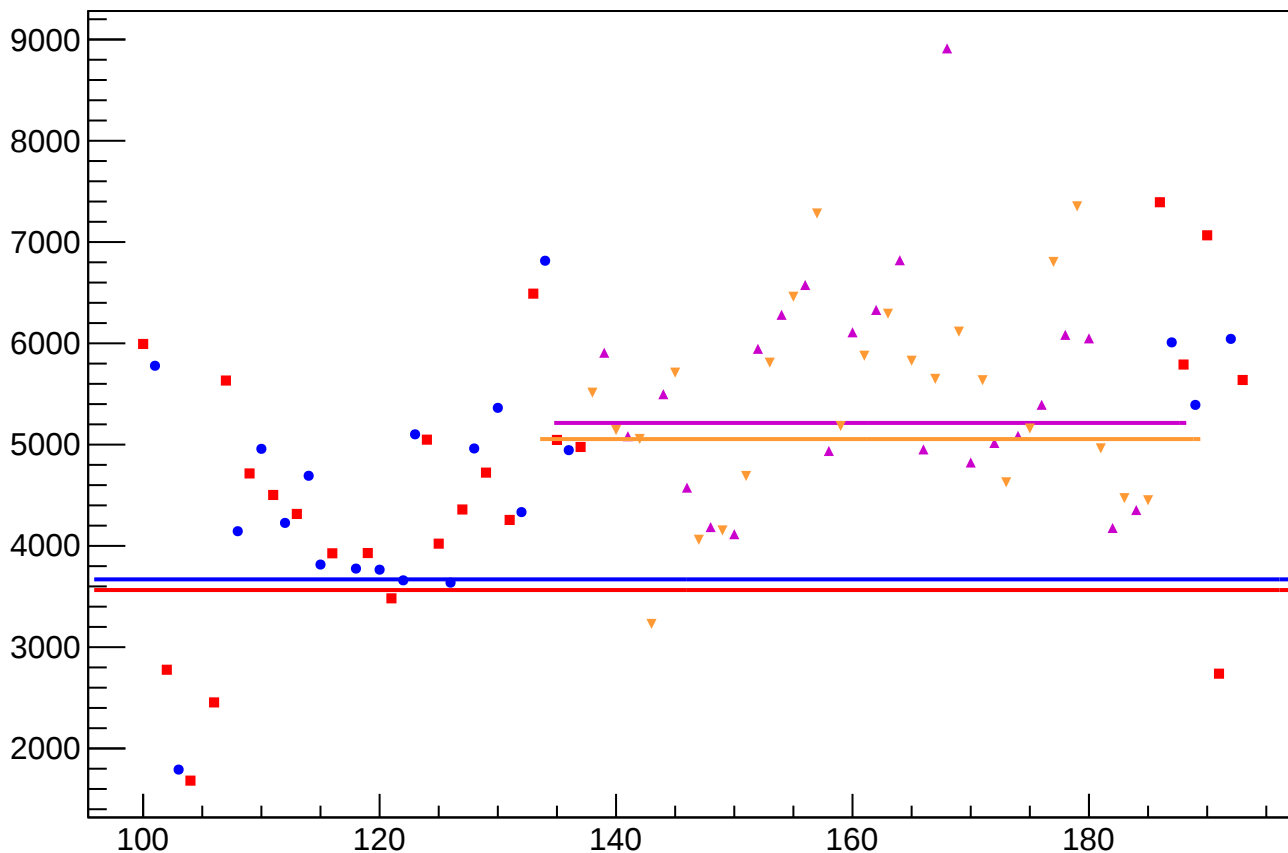
Right: 2807.949+/-943.310 χ^2/NDF : 46.3/43

In: 2710.841+/-938.509 χ^2/NDF : 30.8/42

Out: 2311.095+/-878.513 χ^2/NDF : 58.7/48

All: 2497.783+/-641.364 χ^2/NDF : 89.6/91

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3669.591+/-0.985

χ^2/NDF : 2215371.1/19

Left: 5130.314+/-0.618

χ^2/NDF : 2506291.2/47

Left Out: 5054.711+/-0.853

χ^2/NDF : 1437224.7/24

Right: 3612.046+/-0.664

χ^2/NDF : 5063290.2/43

Right Out: 3564.068+/-0.899

χ^2/NDF : 2841660.0/23

In: 4513.007+/-0.664

χ^2/NDF : 4610613.5/42

Out: 4348.835+/-0.619

χ^2/NDF : 5725139.1/48

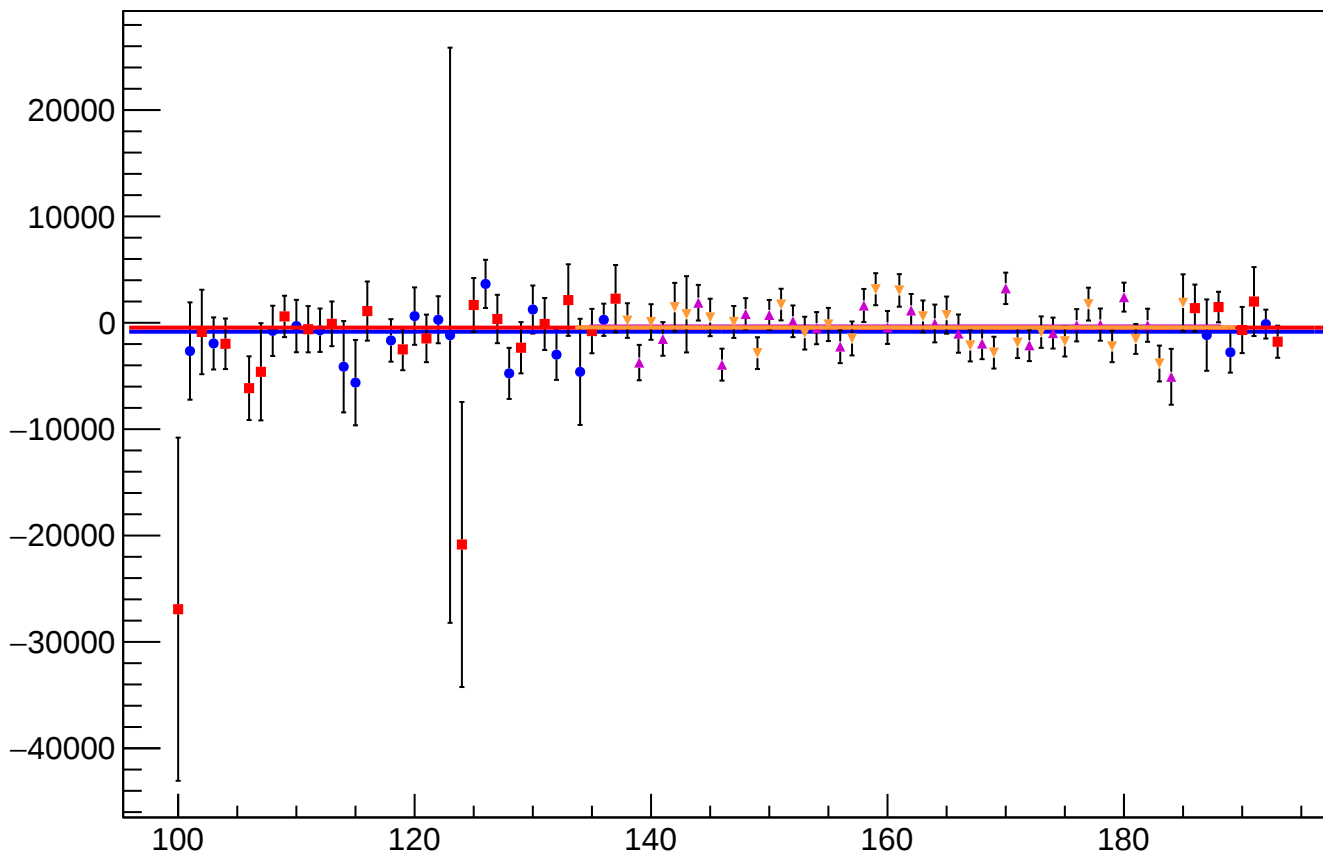
Left In: 5214.120+/-0.898

χ^2/NDF : 1052501.5/22

All: 4425.202+/-0.453

χ^2/NDF : 10368484.9/95

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -836.908+/-524.741 χ^2/NDF : 13.9/19

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -453.097+/-485.415 χ^2/NDF : 18.5/23

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

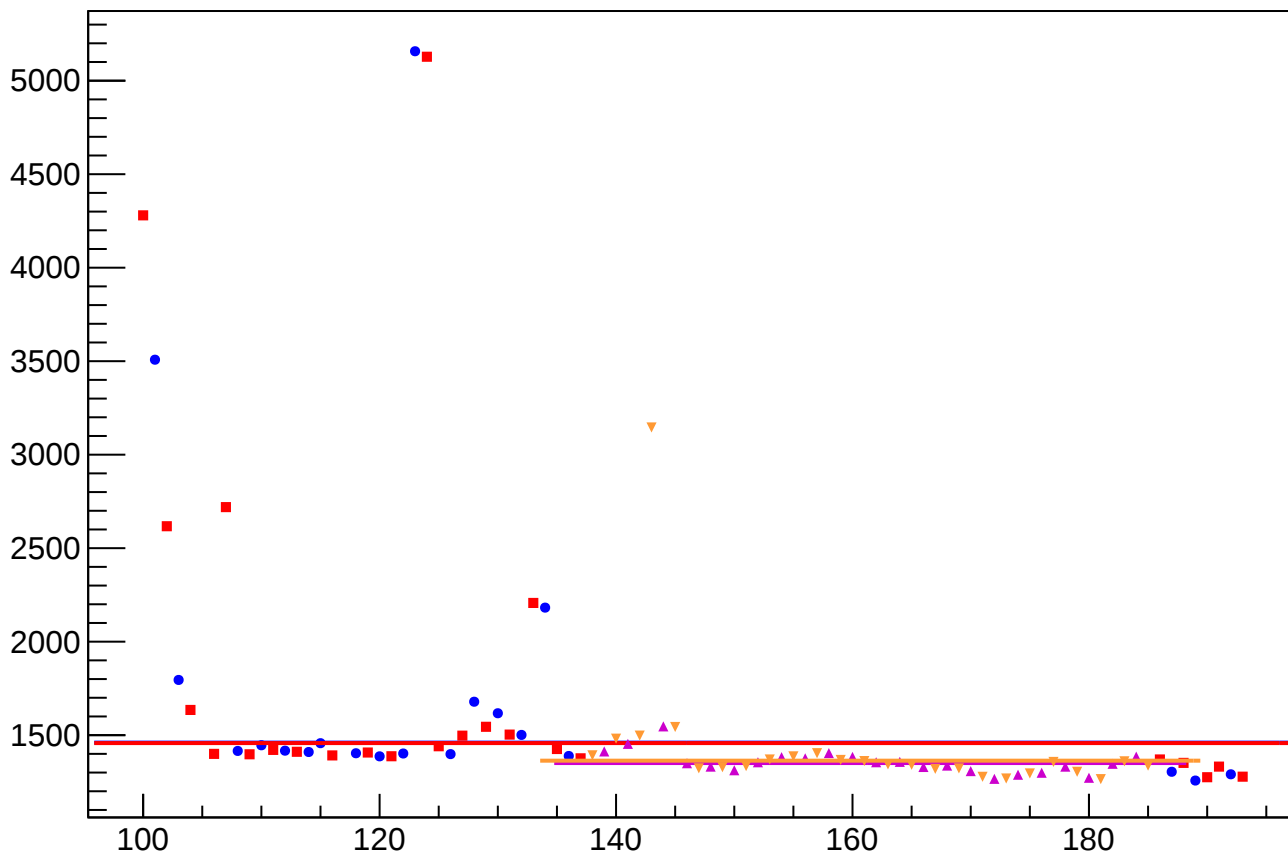
Right: -630.083+/-356.333 χ^2/NDF : 32.6/43

In: -480.083+/-275.910 χ^2/NDF :48.3/42

Out: -438.207+/-267.484 χ^2/NDF :51.5/48

All: -458.496+/-192.049 χ^2/NDF : 99.8/91

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.057 $\pm$ 0.371 χ^2 /NDF: 614658.8/19

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1457.635 $\pm$ 0.343 χ^2 /NDF: 718871.0/23

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

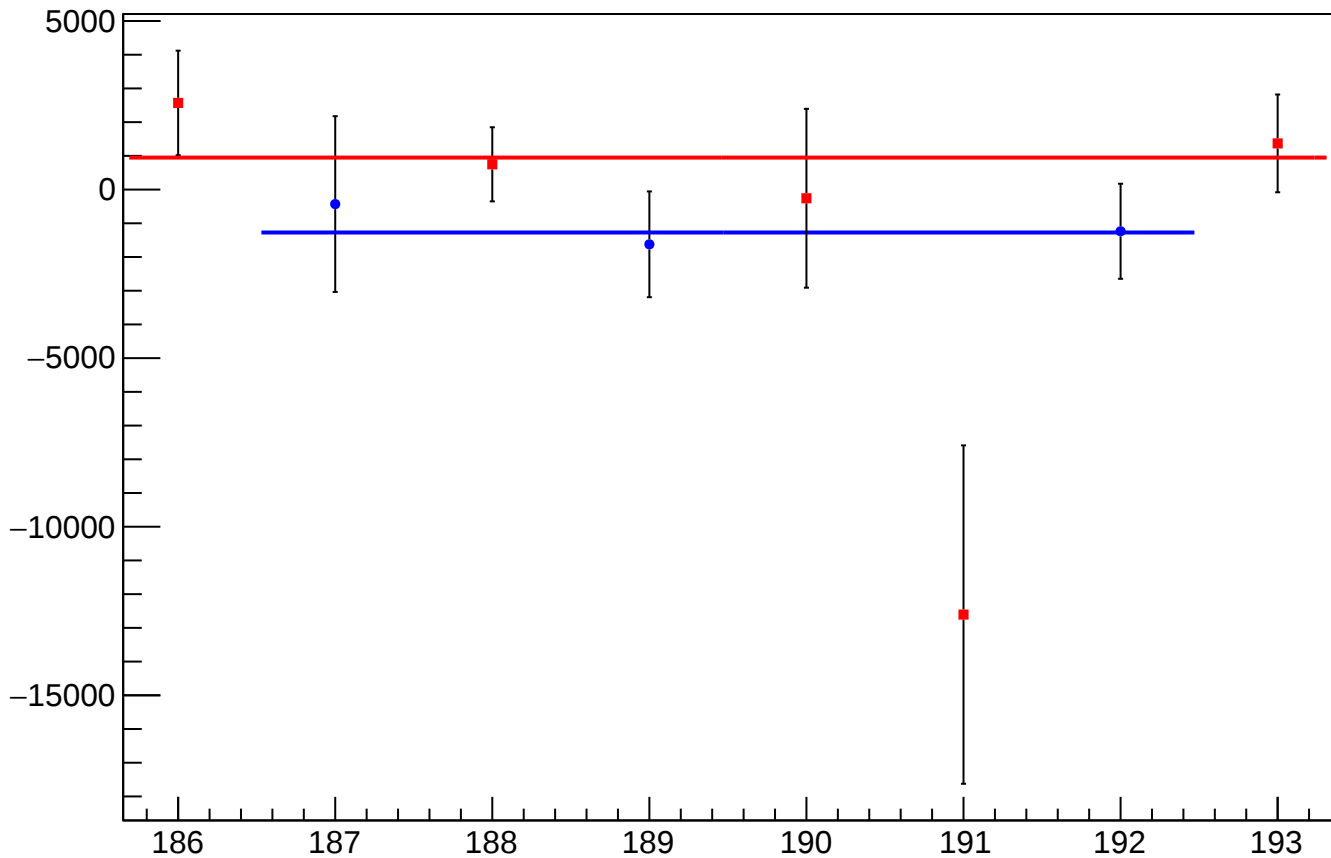
Right: 1458.752 $\pm$ 0.252 χ^2 /NDF: 1333552.7/43

In: 1381.085 $\pm$ 0.195 χ^2 /NDF: 744411.7/42

Out: 1392.127 $\pm$ 0.189 χ^2 /NDF: 1346406.5/48

All: 1386.777 $\pm$ 0.136 χ^2 /NDF: 2092469.3/93

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1272.879+/-972.777 χ^2/NDF : 0.2/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 949.148+/-725.344 χ^2/NDF : 8.7/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

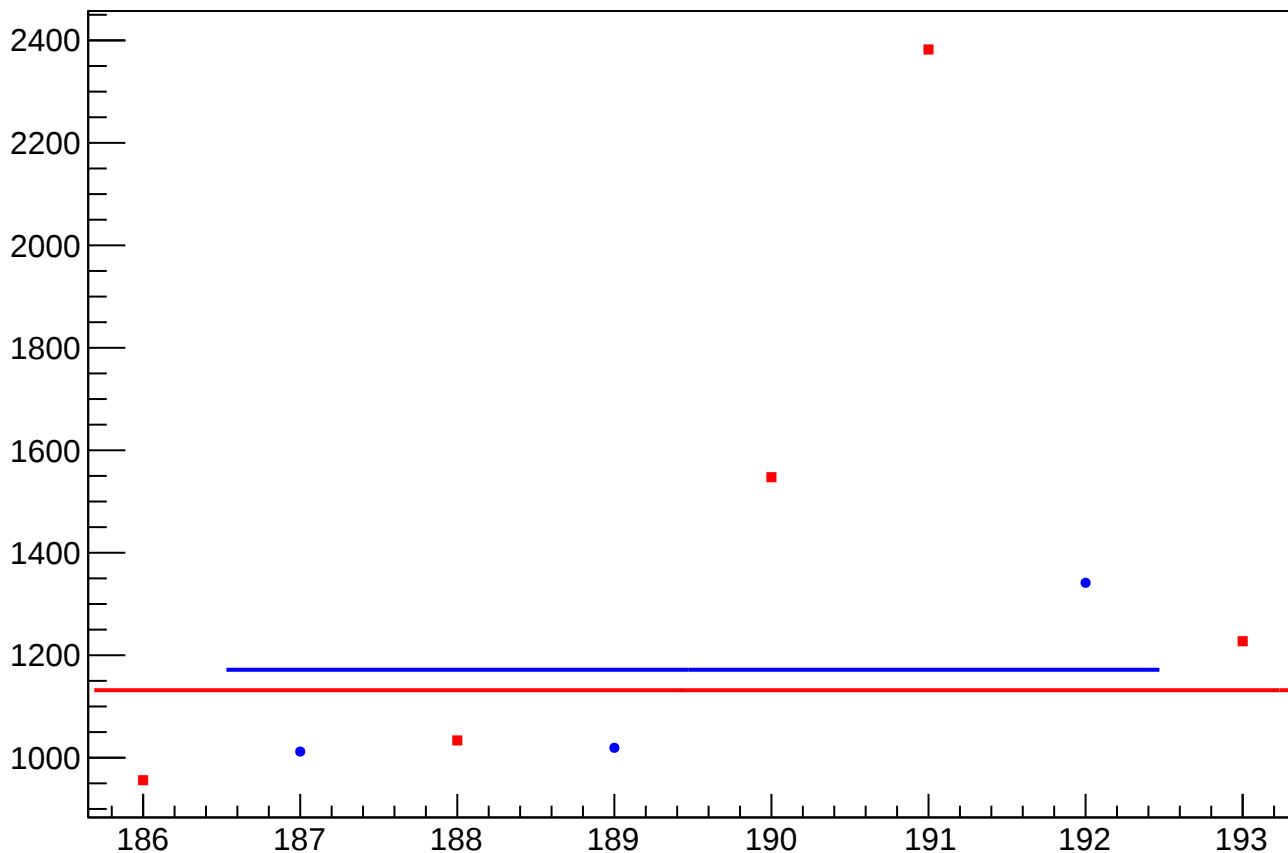
Right: 155.175+/-581.489 χ^2/NDF : 12.2/7

In: -1272.879+/-972.777 χ^2/NDF : 0.2/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 155.175+/-581.489 χ^2/NDF : 12.2/7

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1171.639+/-0.688 χ^2/NDF : 55356.9/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1131.756+/-0.513 χ^2/NDF : 223553.2/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

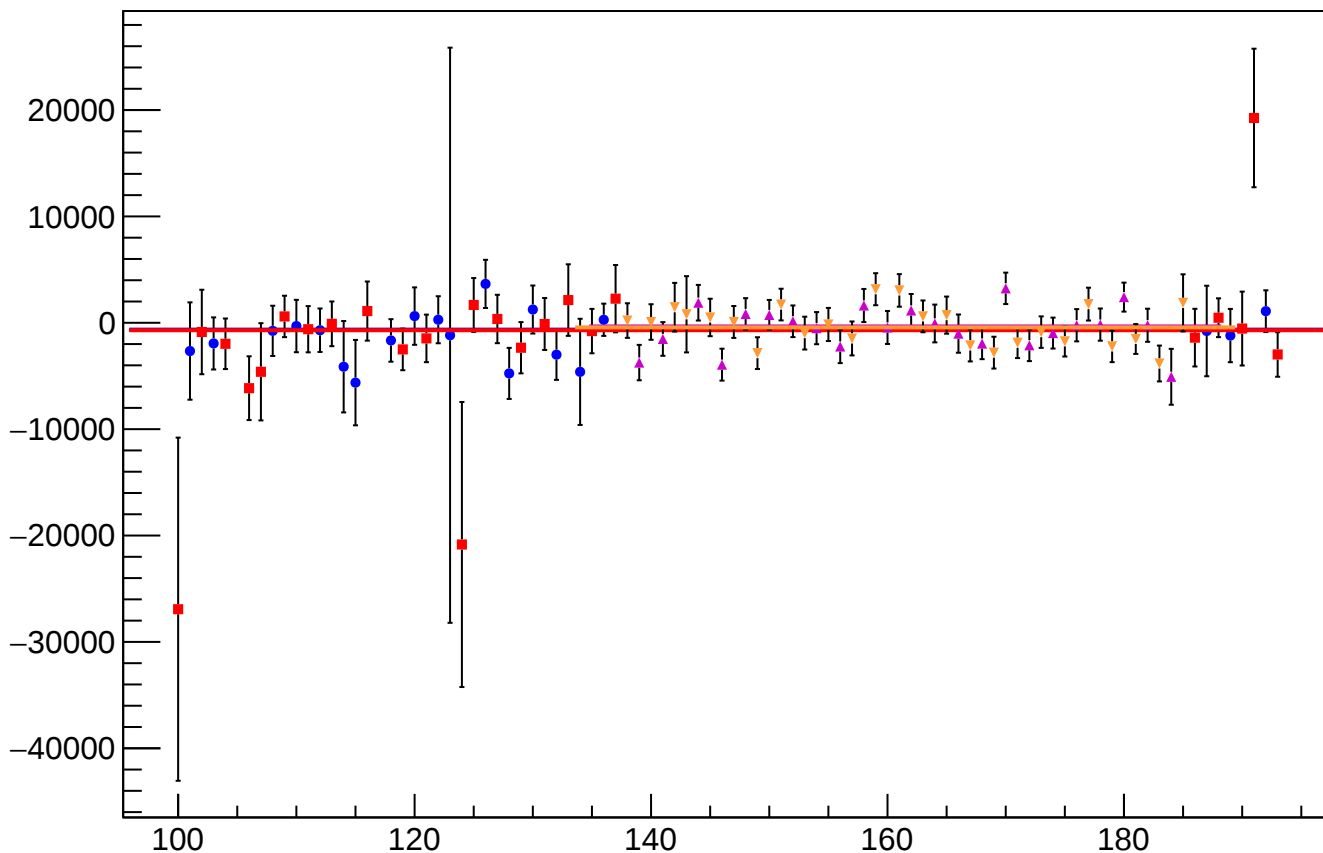
Right: 1146.007+/-0.411 χ^2/NDF : 281070.8/7

In: 1171.639+/-0.688 χ^2/NDF : 55356.9/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1146.007+/-0.411 χ^2/NDF : 281070.8/7

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -644.335+/-558.904 χ^2/NDF : 13.4/19

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -697.896+/-528.536 χ^2/NDF : 25.4/23

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

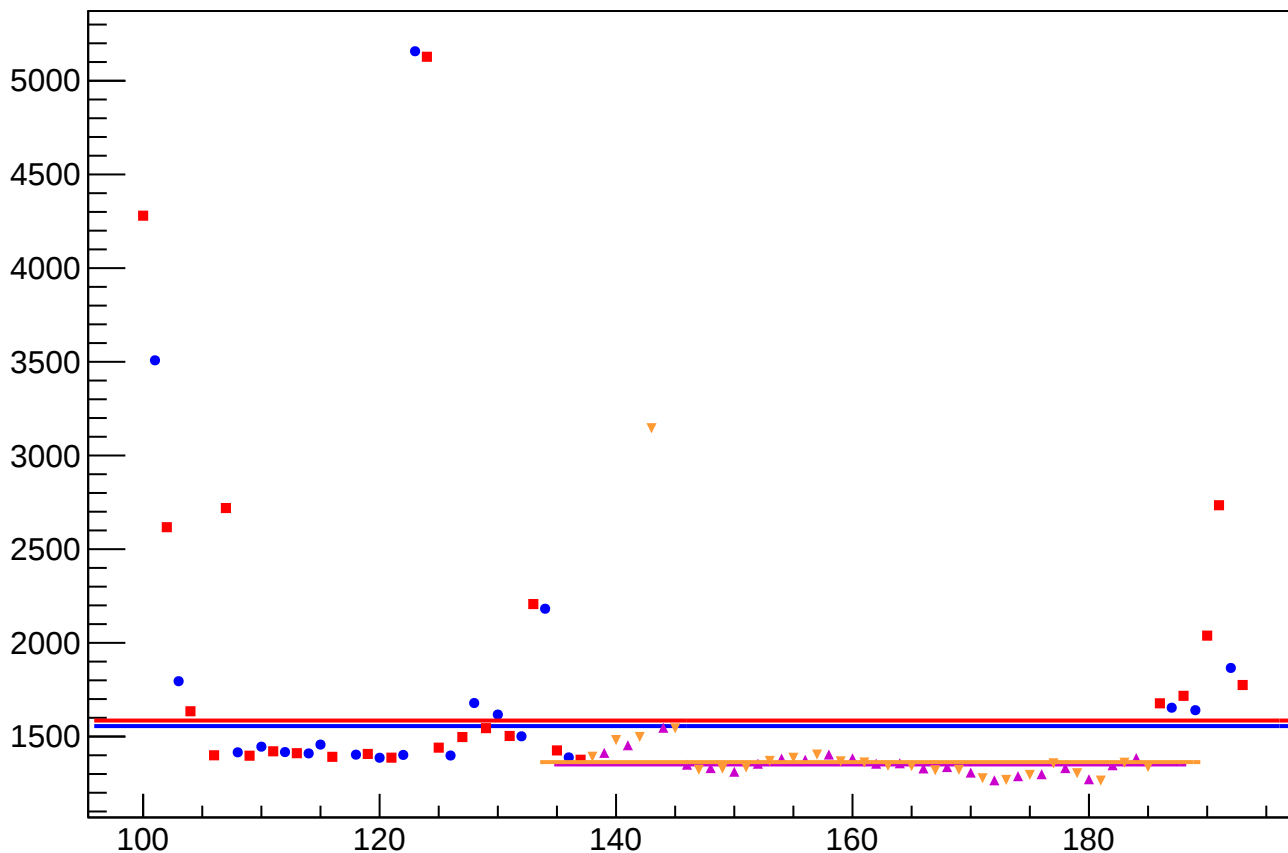
Right: -672.610+/-384.019 χ^2/NDF : 38.8/43

In: -419.475+/-280.544 χ^2/NDF : 47.4/42

Out: -503.291+/-274.076 χ^2/NDF : 58.7/48

All: -462.360+/-196.048 χ^2/NDF : 106.1/91

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1555.717+/-0.395 χ^2/NDF : 598426.4/19

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1585.412+/-0.374 χ^2/NDF : 774894.4/23

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

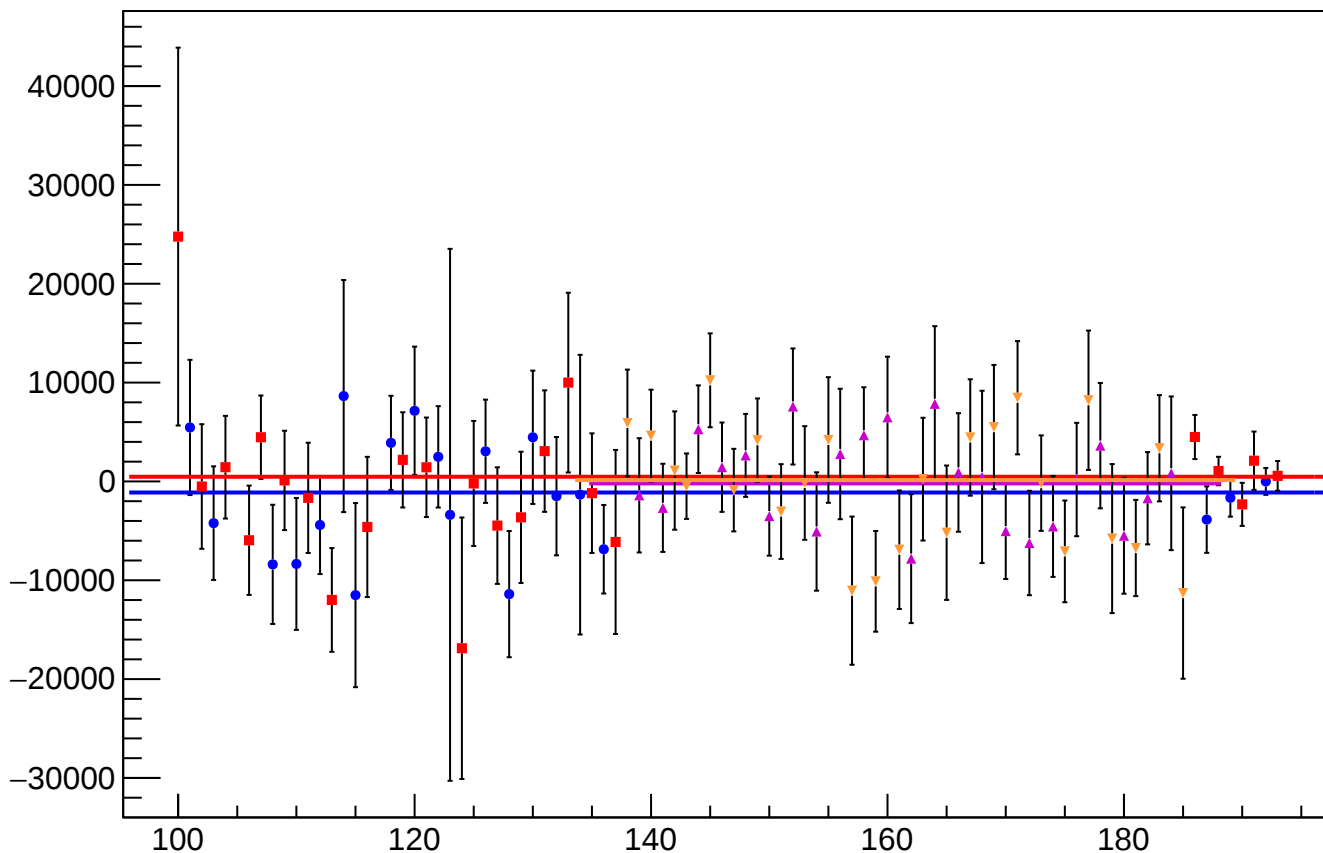
Right: 1571.393+/-0.272 χ^2/NDF : 1376301.1/43

In: 1402.512+/-0.198 χ^2/NDF : 866470.9/42

Out: 1423.218+/-0.194 χ^2/NDF : 1607743.3/48

All: 1413.106+/-0.139 χ^2/NDF : 2479788.3/93

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1119.794 $\pm$ 864.210 χ^2 /NDF: 16.4/19

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF: 28.1/24

Right Out: 474.305 $\pm$ 711.677 χ^2 /NDF: 20.4/23

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF: 14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

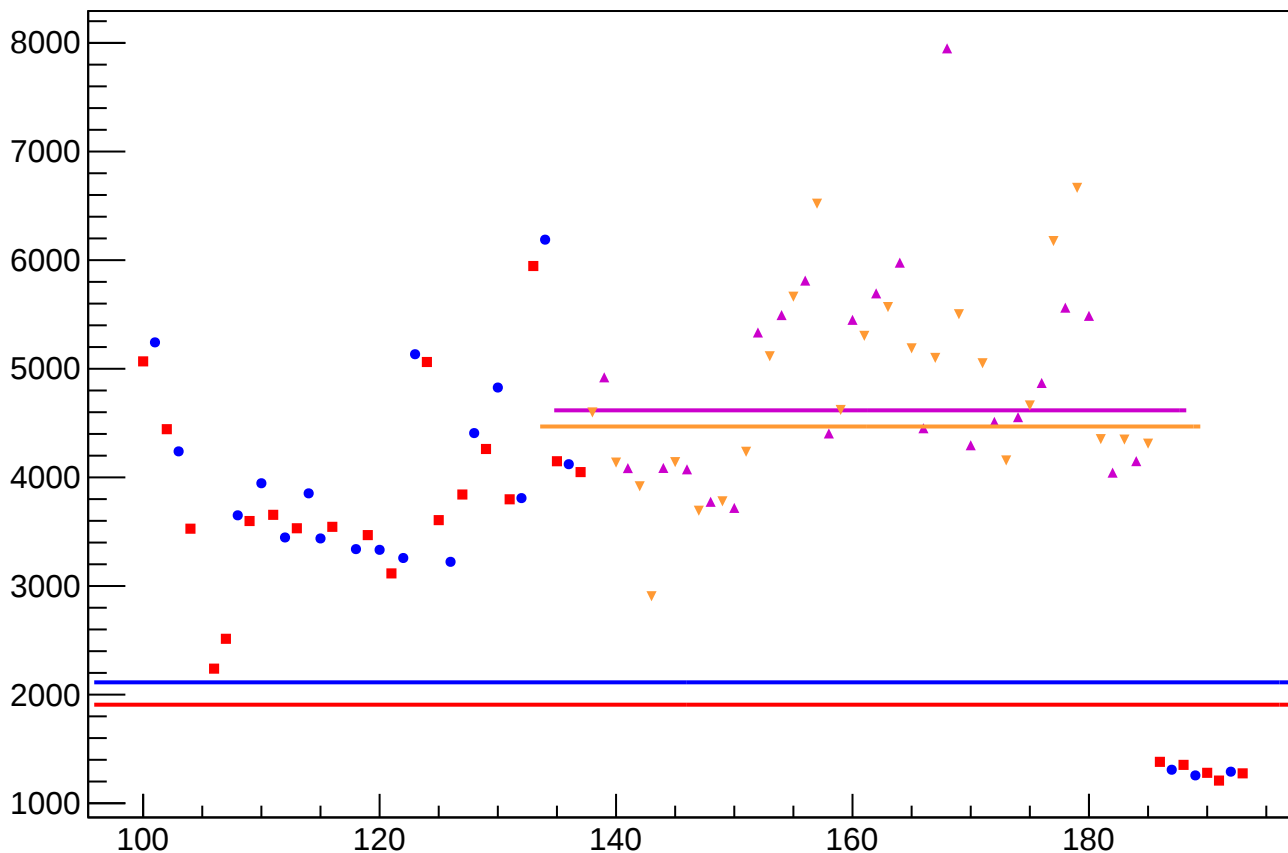
Right: -169.881 $\pm$ 549.373 χ^2 /NDF: 38.9/43

In: -777.941 $\pm$ 684.999 χ^2 /NDF: 31.6/42

Out: 368.755 $\pm$ 591.814 χ^2 /NDF: 48.6/48

All: -121.347 $\pm$ 447.826 χ^2 /NDF: 81.8/91

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2113.190 $\pm$ 0.611 χ^2/NDF : 4182374.4/19

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 1907.292 $\pm$ 0.502 χ^2/NDF : 4397391.9/23

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

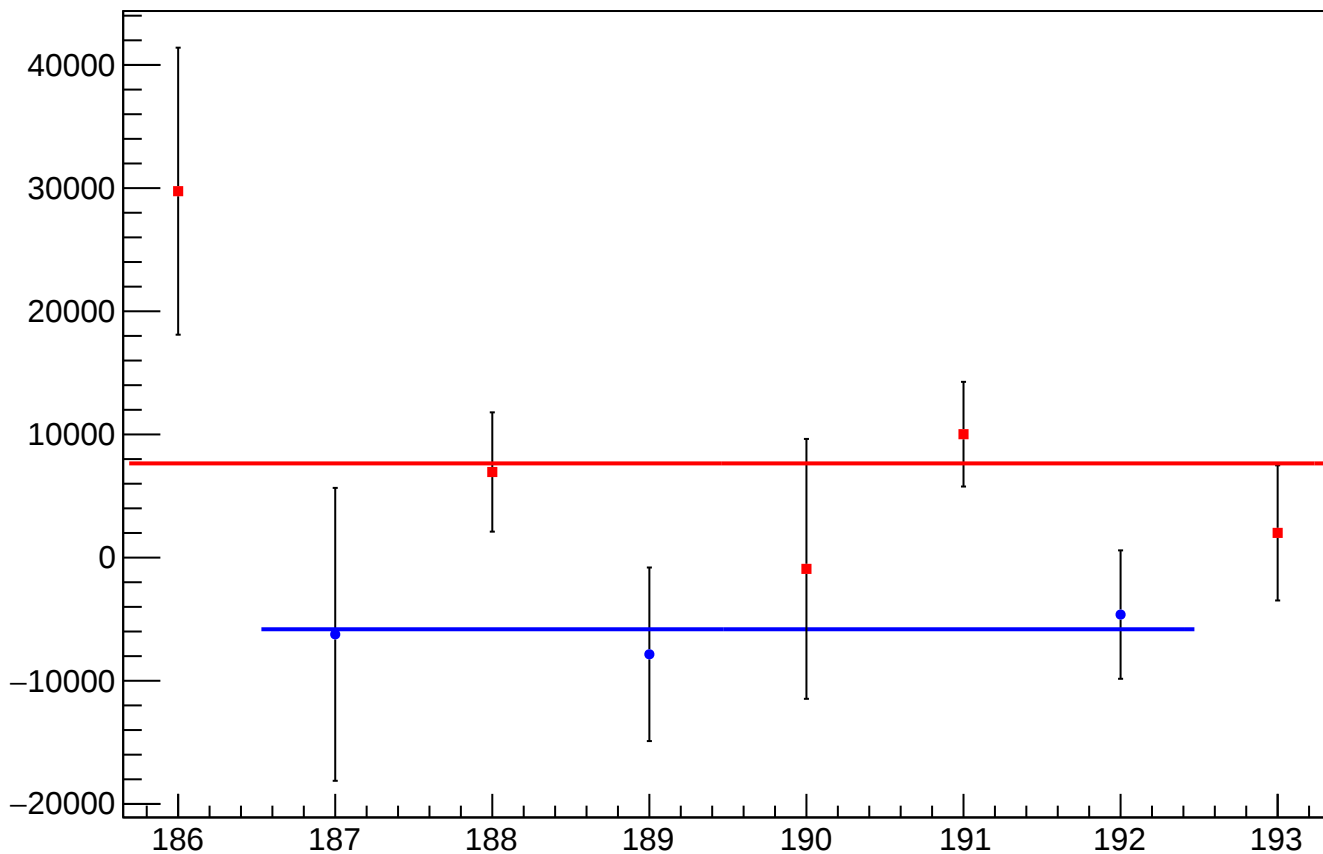
Right: 1990.255 $\pm$ 0.388 χ^2/NDF : 8647550.2/43

In: 3044.045 $\pm$ 0.484 χ^2/NDF : 11424117.1/42

Out: 2694.709 $\pm$ 0.418 χ^2/NDF : 13780823.5/48

All: 2843.728 $\pm$ 0.316 χ^2/NDF : 25503215.4/95

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -5817.301 $\pm$ 3952.577 χ^2 /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 7649.161 $\pm$ 2603.176 χ^2 /NDF: 5.6/4

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

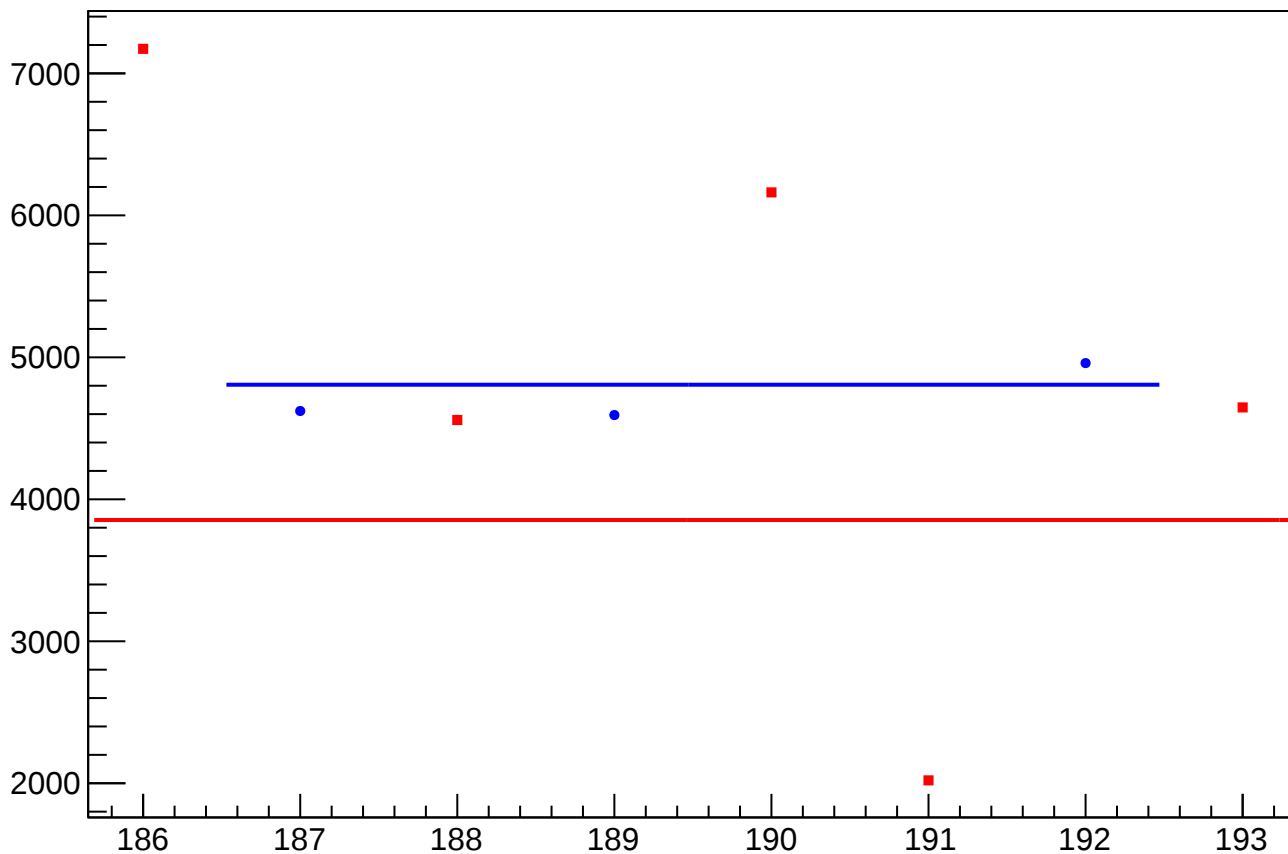
Right: 3575.128 $\pm$ 2174.031 χ^2 /NDF: 13.9/7

In: -5817.301 $\pm$ 3952.577 χ^2 /NDF:0.1/2

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 3575.128 $\pm$ 2174.031 χ^2 /NDF: 13.9/7

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 4807.062+/-2.795 χ^2/NDF : 4033.6/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 3854.288+/-1.841 χ^2/NDF : 714436.9/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

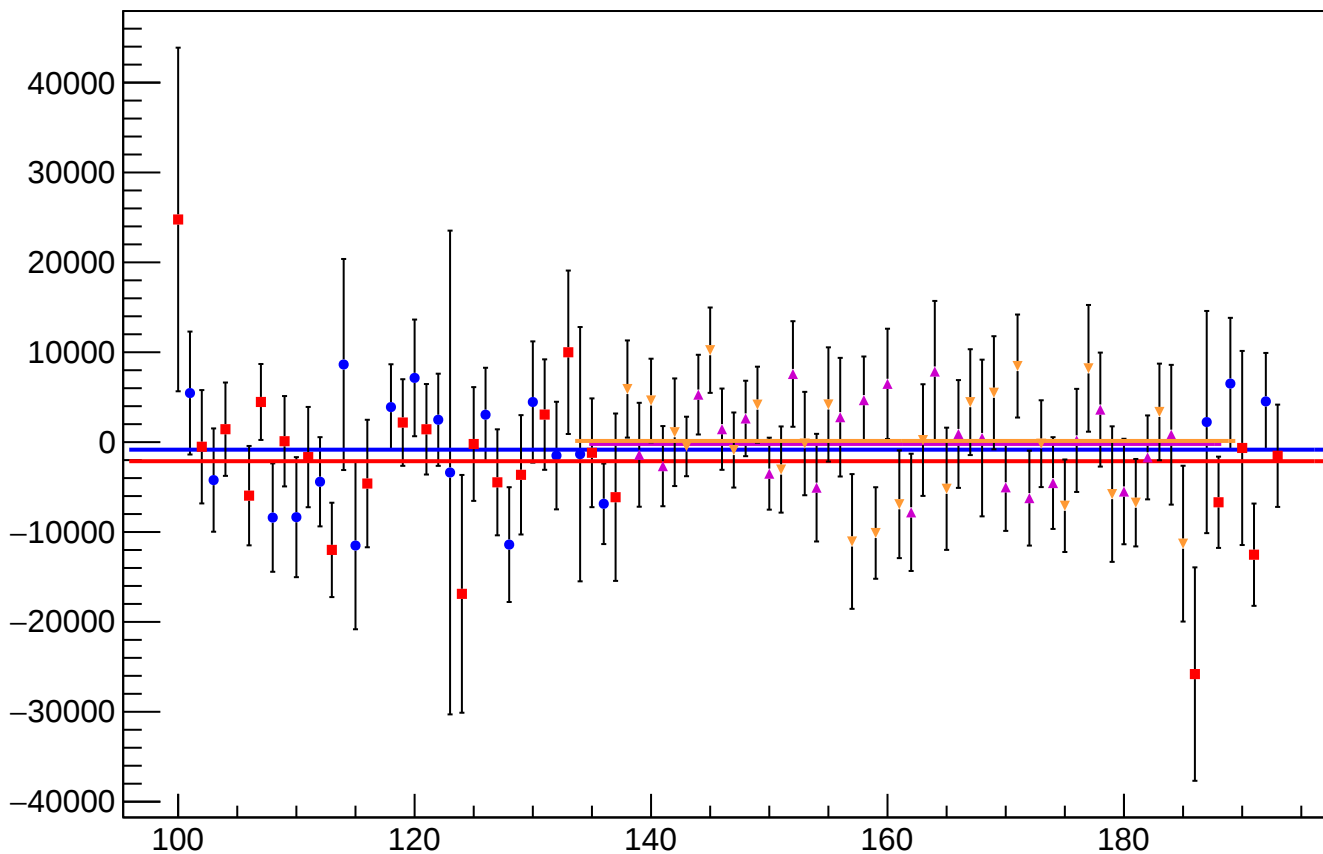
Right: 4142.532+/-1.537 χ^2/NDF : 799524.3/7

In: 4807.062+/-2.795 χ^2/NDF : 4033.6/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4142.532+/-1.537 χ^2/NDF : 799524.3/7

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -839.032 ± 1423.114 $\chi^2/\text{NDF}: 17.2/19$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -2121.224 ± 1250.071 $\chi^2/\text{NDF}: 23.0/23$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

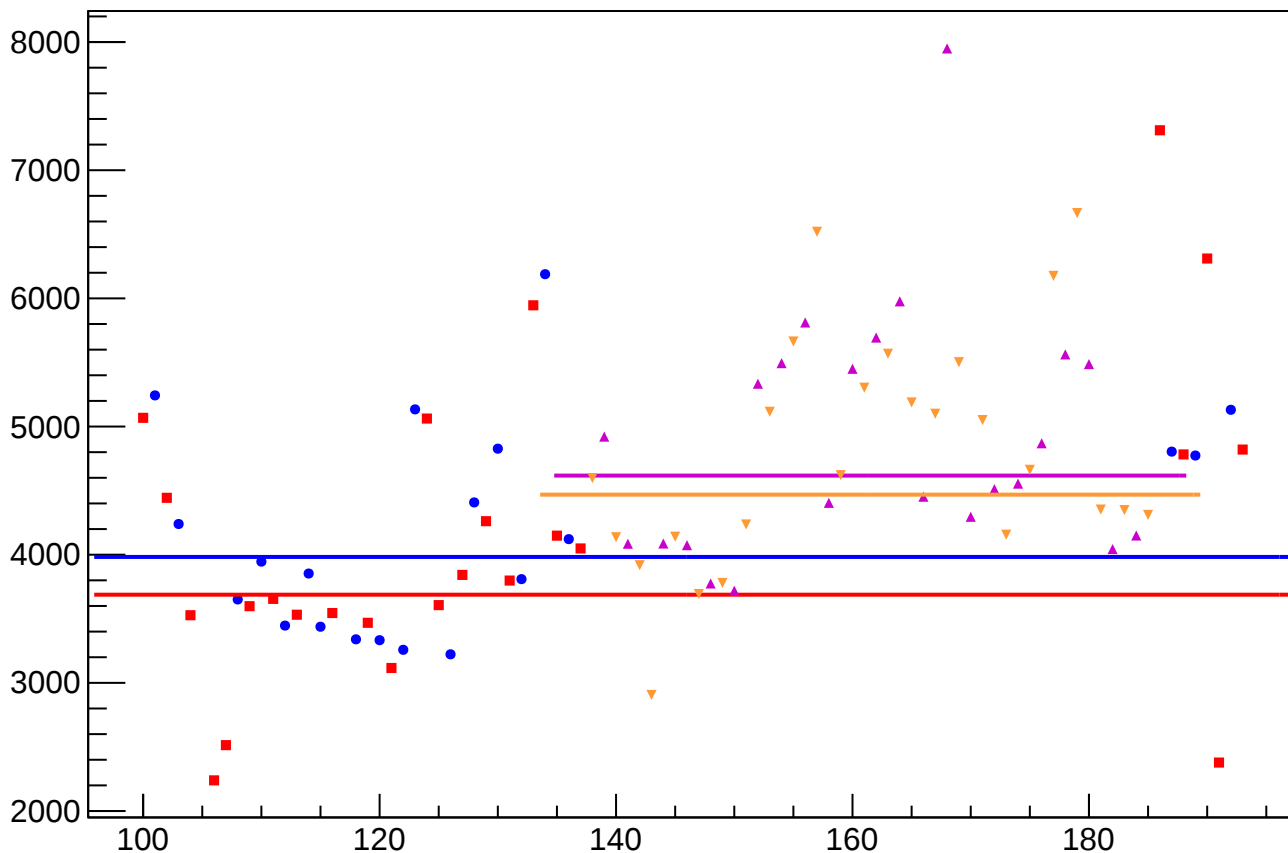
Right: -1562.782 ± 939.187 $\chi^2/\text{NDF}: 40.7/43$

In: -445.471 ± 881.819 $\chi^2/\text{NDF}: 32.1/42$

Out: -816.107 ± 810.923 $\chi^2/\text{NDF}: 53.0/48$

All: -646.285 ± 596.902 $\chi^2/\text{NDF}: 85.2/91$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3982.560+/-1.006 χ^2/NDF : 466233.5/19

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 3687.919+/-0.877 χ^2/NDF : 1165997.6/23

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

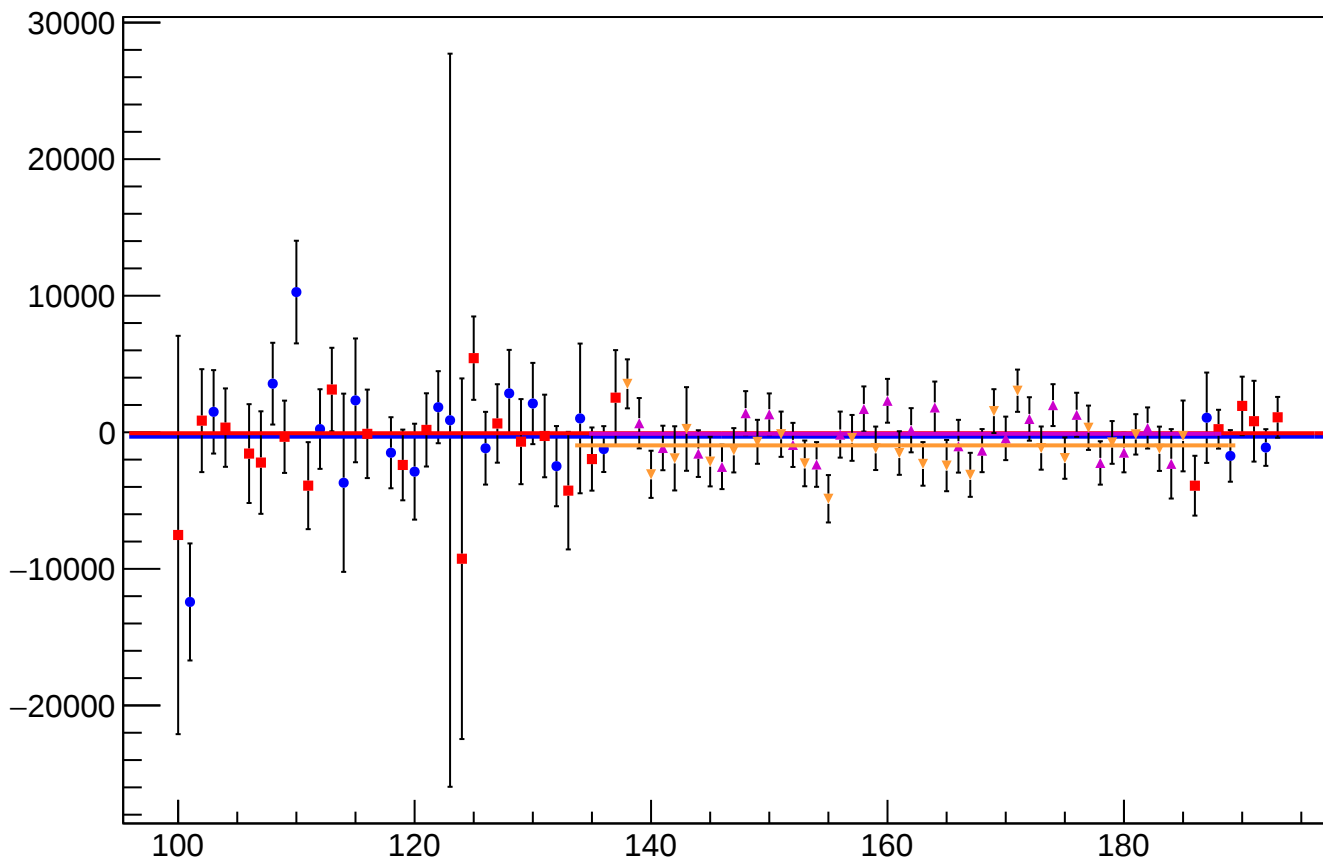
Right: 3815.162+/-0.661 χ^2/NDF : 1680940.8/43

In: 4373.578+/-0.624 χ^2/NDF : 1710941.8/42

Out: 4137.168+/-0.572 χ^2/NDF : 3002221.5/48

All: 4245.117+/-0.421 χ^2/NDF : 4791274.6/91

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -322.000+/-609.730 χ^2/NDF : 23.7/19

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -68.218+/-547.979 χ^2/NDF : 14.9/23

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

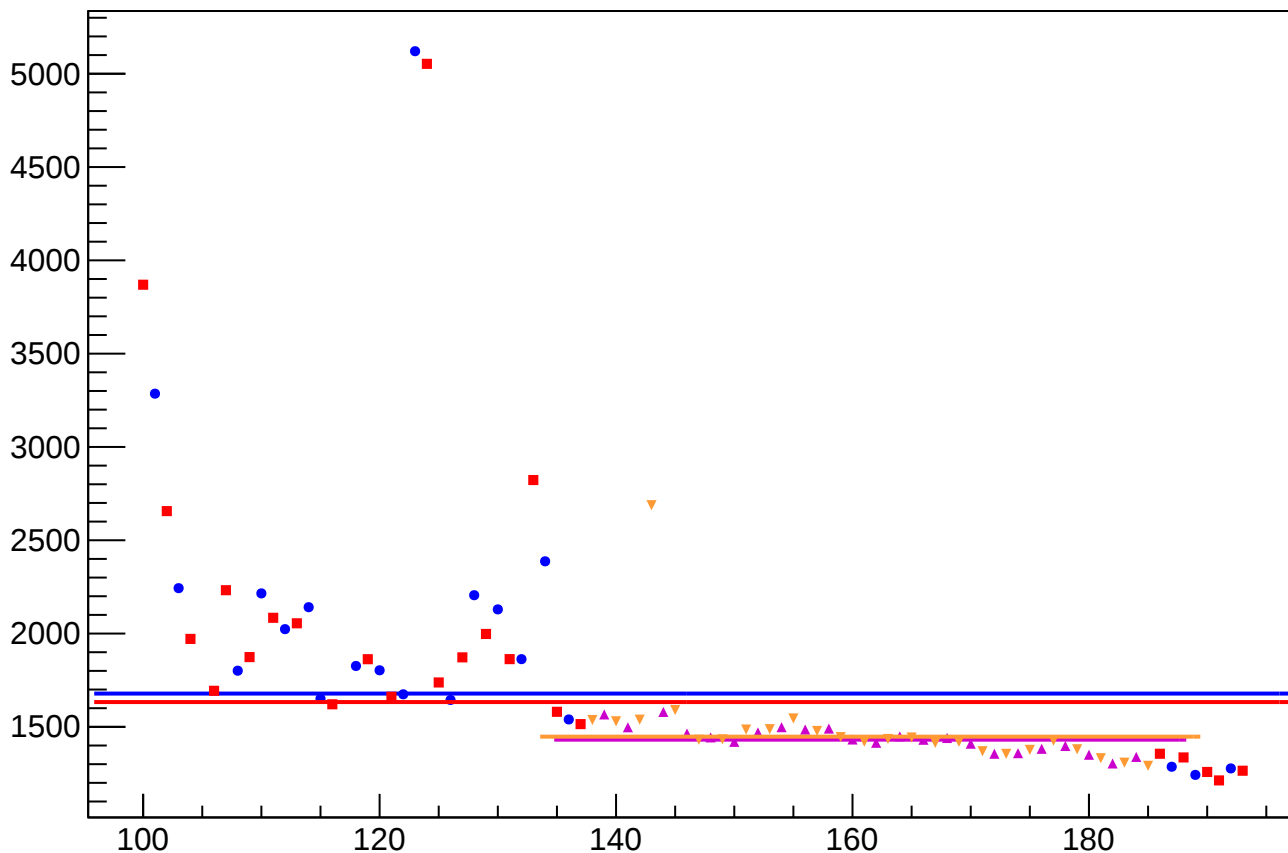
Right: -181.611+/-407.568 χ^2/NDF : 38.7/43

In: -159.223+/-299.383 χ^2/NDF : 43.3/42

Out: -711.498+/-288.598 χ^2/NDF : 45.3/48

All: -445.488+/-207.778 χ^2/NDF : 90.4/91

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1678.386 $\pm$ 0.431 χ^2 /NDF: 942880.2/19

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1632.920 $\pm$ 0.387 χ^2 /NDF: 1072622.2/23

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

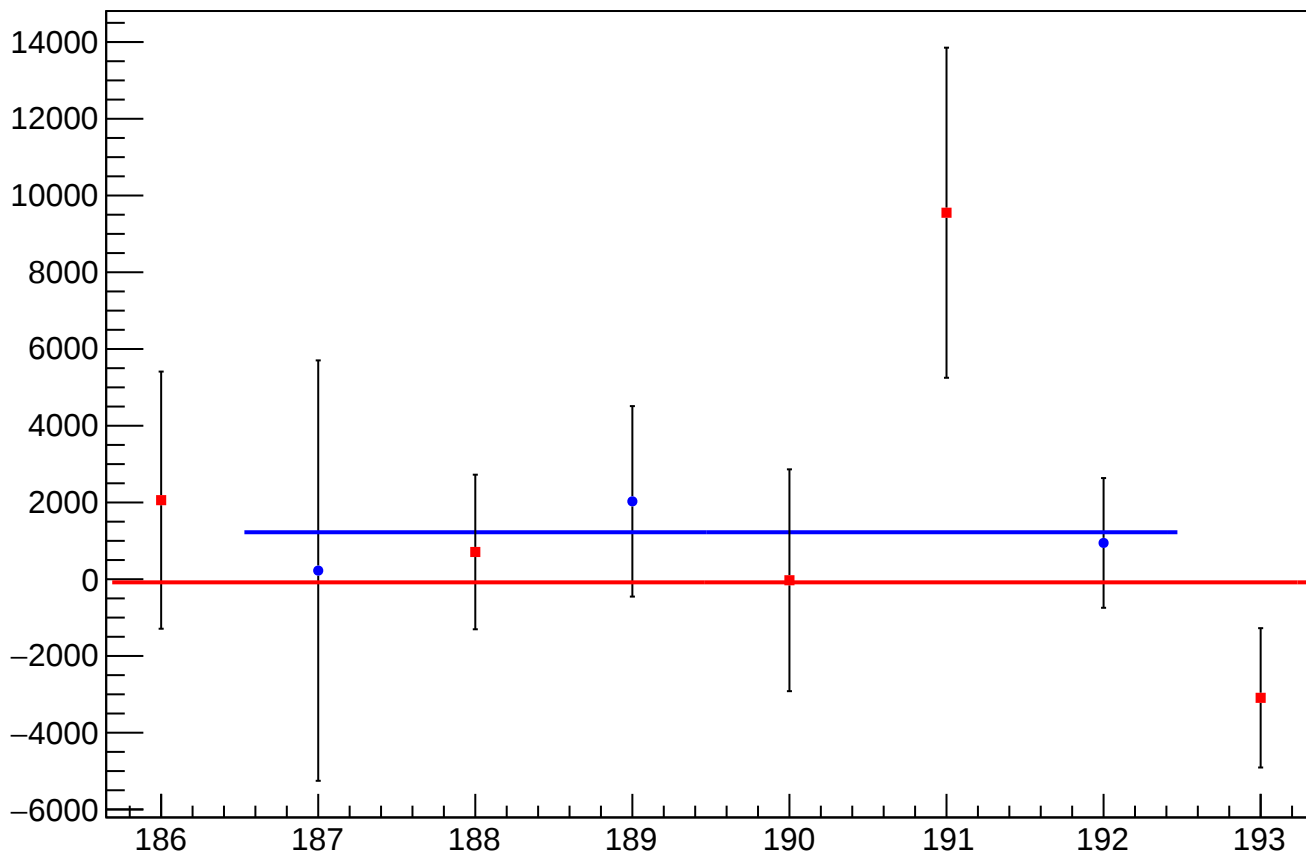
Right: 1653.235 $\pm$ 0.288 χ^2 /NDF: 2021654.2/43

In: 1490.989 $\pm$ 0.212 χ^2 /NDF: 1266952.4/42

Out: 1498.970 $\pm$ 0.204 χ^2 /NDF: 1657257.0/48

All: 1495.126 $\pm$ 0.147 χ^2 /NDF: 2924946.2/93

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1224.191+/-1353.918 χ^2/NDF : 0.2/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -81.445+/-1109.422 χ^2/NDF : 8.3/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

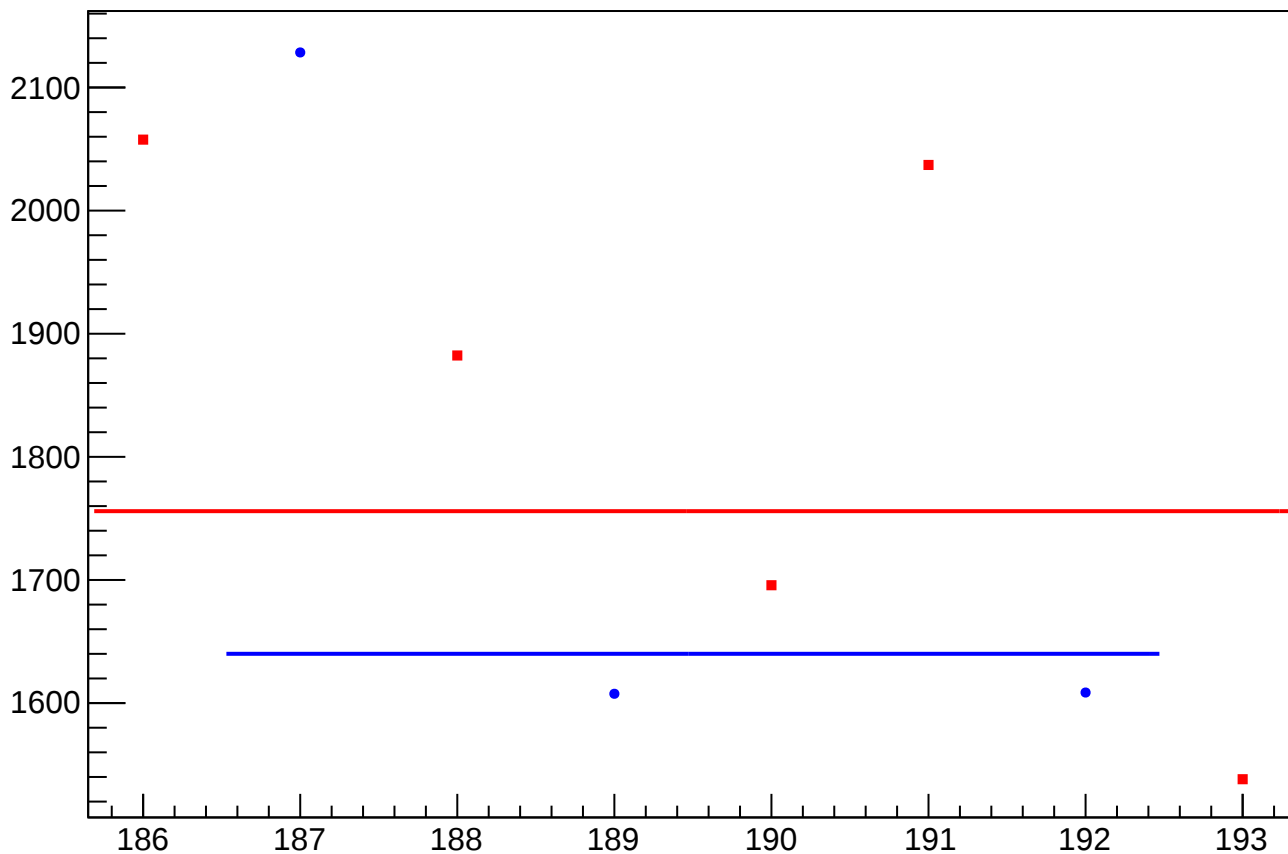
Right: 443.048+/-858.126 χ^2/NDF : 9.0/7

In: 1224.191+/-1353.918 χ^2/NDF : 0.2/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 443.048+/-858.126 χ^2/NDF : 9.0/7

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1640.033+/-0.957 χ^2/NDF : 16932.8/2

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1755.885+/-0.784 χ^2/NDF : 62262.0/4

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

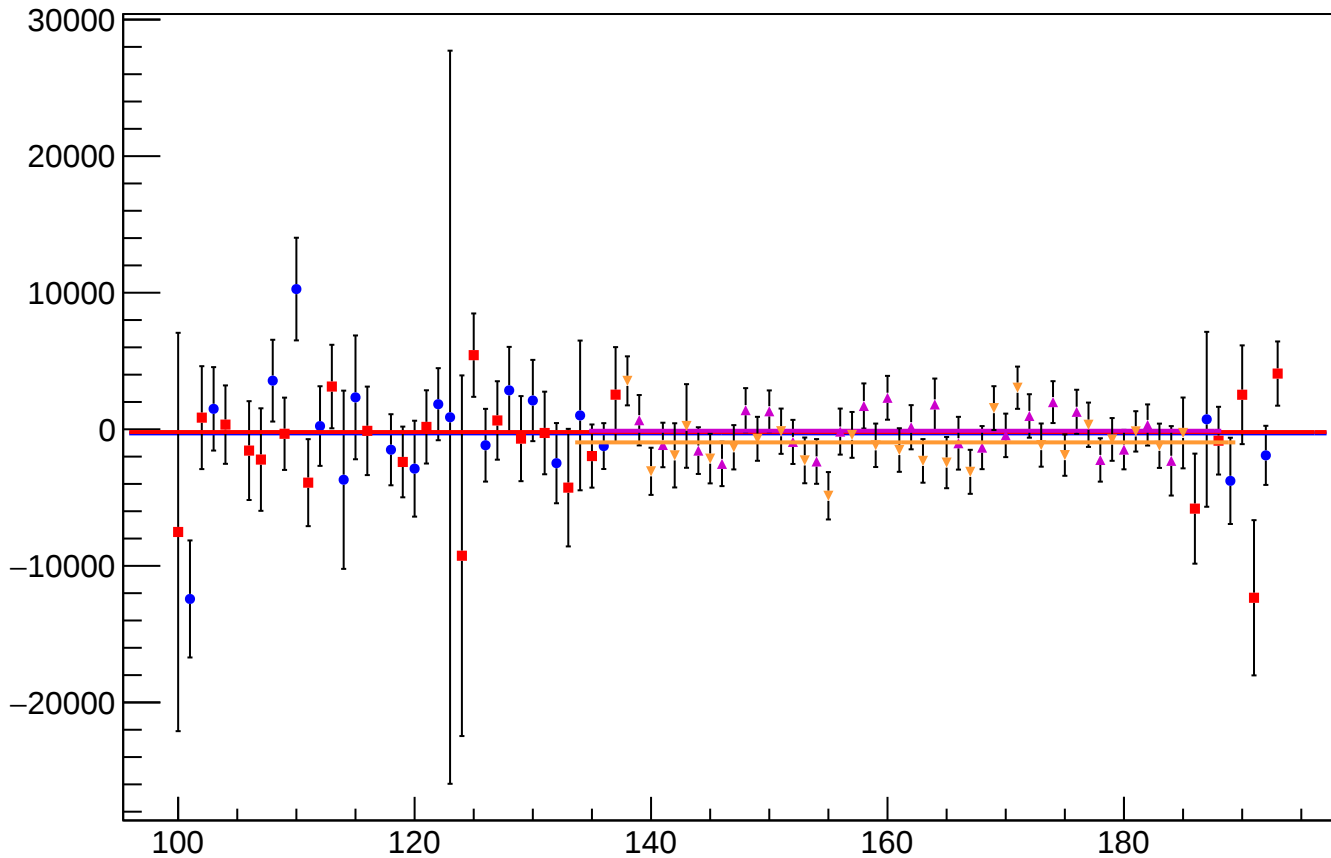
Right: 1709.345+/-0.607 χ^2/NDF : 87955.9/7

In: 1640.033+/-0.957 χ^2/NDF : 16932.8/2

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1709.345+/-0.607 χ^2/NDF : 87955.9/7

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -299.705+/-689.666 χ^2/NDF : 24.4/19

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -201.605+/-651.198 χ^2/NDF : 20.6/23

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

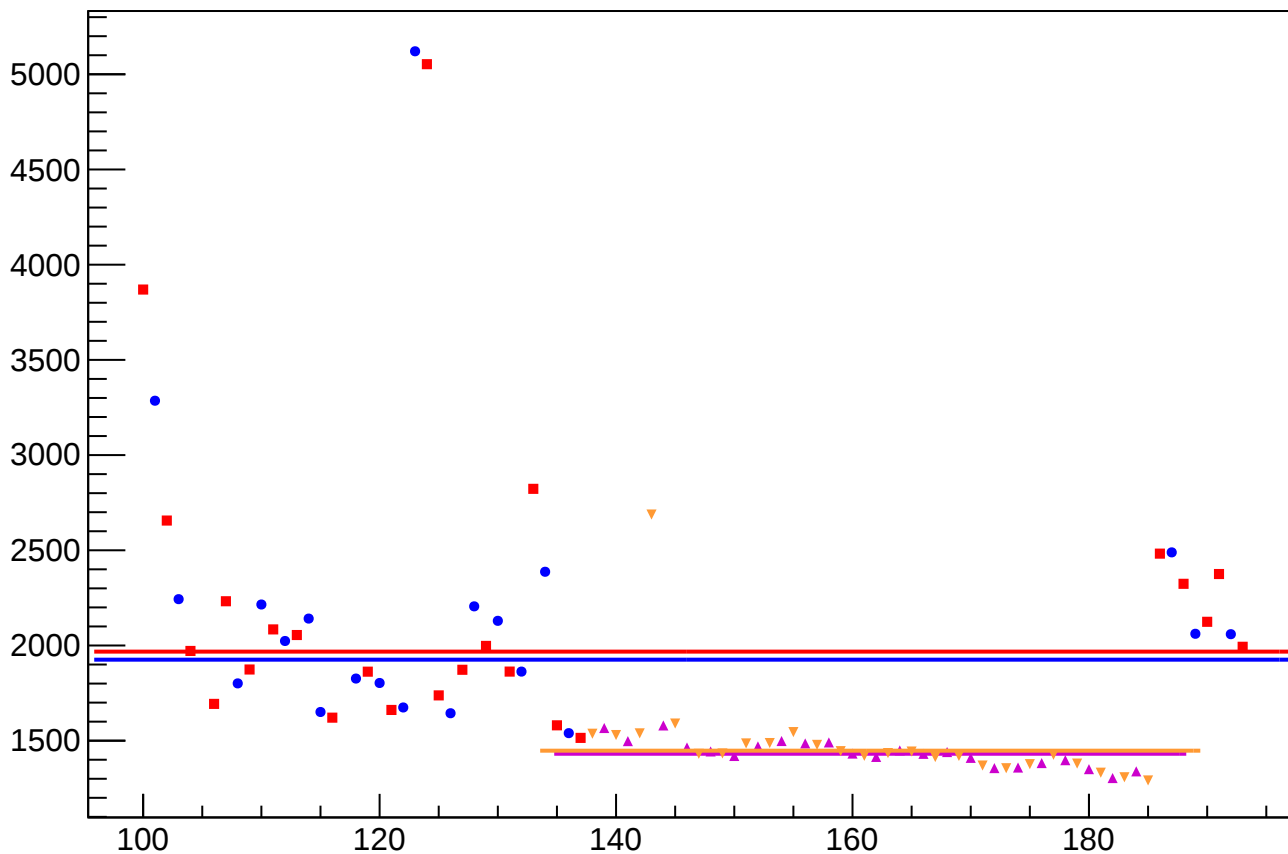
Right: -247.843+/-473.482 χ^2/NDF : 45.0/43

In: -145.742+/-307.590 χ^2/NDF : 43.9/42

Out: -796.673+/-301.041 χ^2/NDF : 50.2/48

All: -478.210+/-215.146 χ^2/NDF : 96.4/91

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1925.508 $\pm$ 0.488 χ^2 /NDF: 496844.7/19

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1967.831 $\pm$ 0.460 χ^2 /NDF: 563647.8/23

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

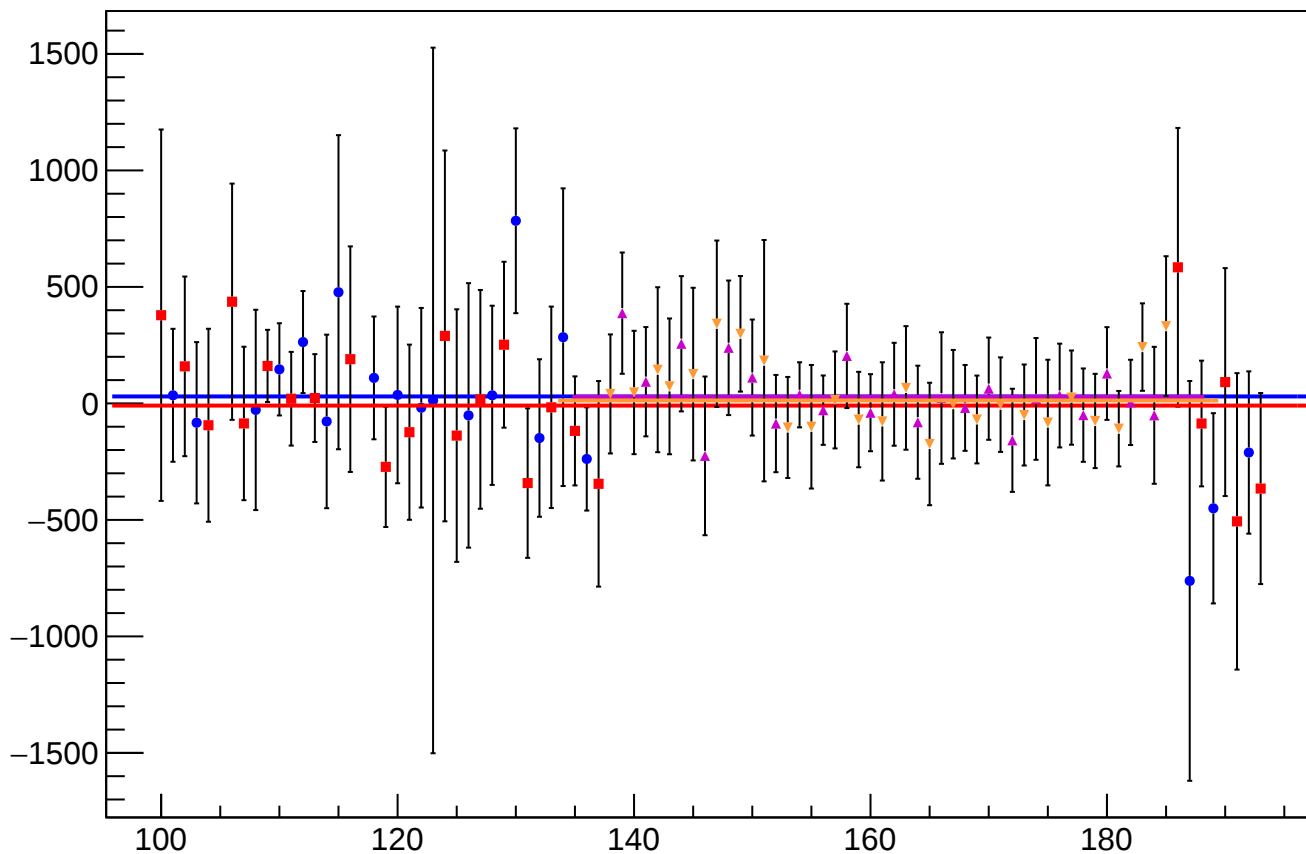
Right: 1947.883 $\pm$ 0.335 χ^2 /NDF: 1064474.5/43

In: 1529.731 $\pm$ 0.217 χ^2 /NDF: 1394182.5/42

Out: 1558.745 $\pm$ 0.213 χ^2 /NDF: 1986739.8/48

All: 1544.550 $\pm$ 0.152 χ^2 /NDF: 3390011.8/91

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 29.887 $\pm$ 76.141 χ^2 /NDF: 10.5/19

Left Out: 12.618 $\pm$ 47.486 χ^2 /NDF: 7.7/24

Right Out: -9.336 $\pm$ 65.498 χ^2 /NDF: 8.9/23

Left In: 27.921 $\pm$ 44.523 χ^2 /NDF: 6.5/22

Left: 20.762 $\pm$ 32.480 χ^2 /NDF: 14.3/47

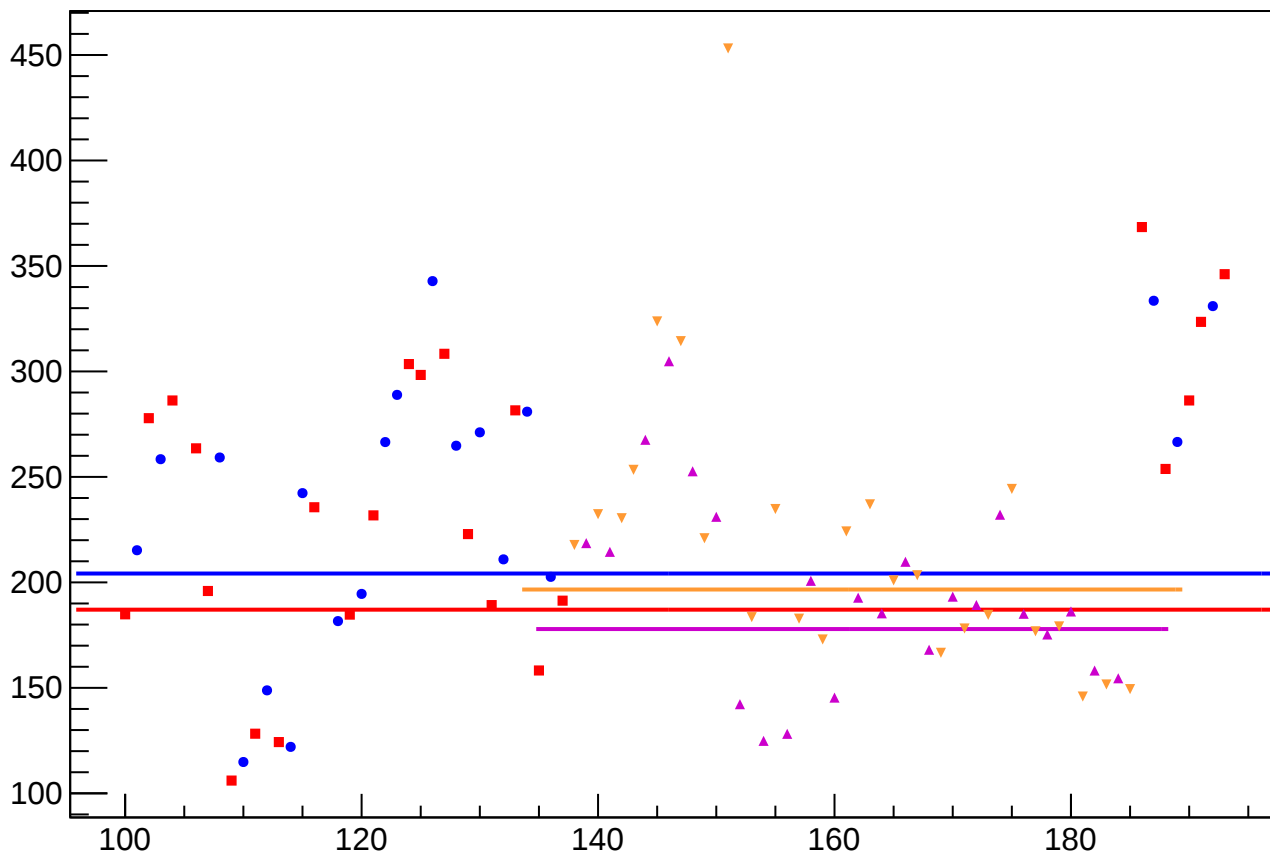
Right: 7.345 $\pm$ 49.654 χ^2 /NDF: 19.6/43

In: 28.422 $\pm$ 38.435 χ^2 /NDF: 17.0/42

Out: 5.054 $\pm$ 38.445 χ^2 /NDF: 16.7/48

All: 16.741 $\pm$ 27.181 χ^2 /NDF: 33.9/91

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.199 $\pm$ 0.054 χ^2 /NDF: 1401474.3/19

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 187.066 $\pm$ 0.046 χ^2 /NDF: 2448596.0/23

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

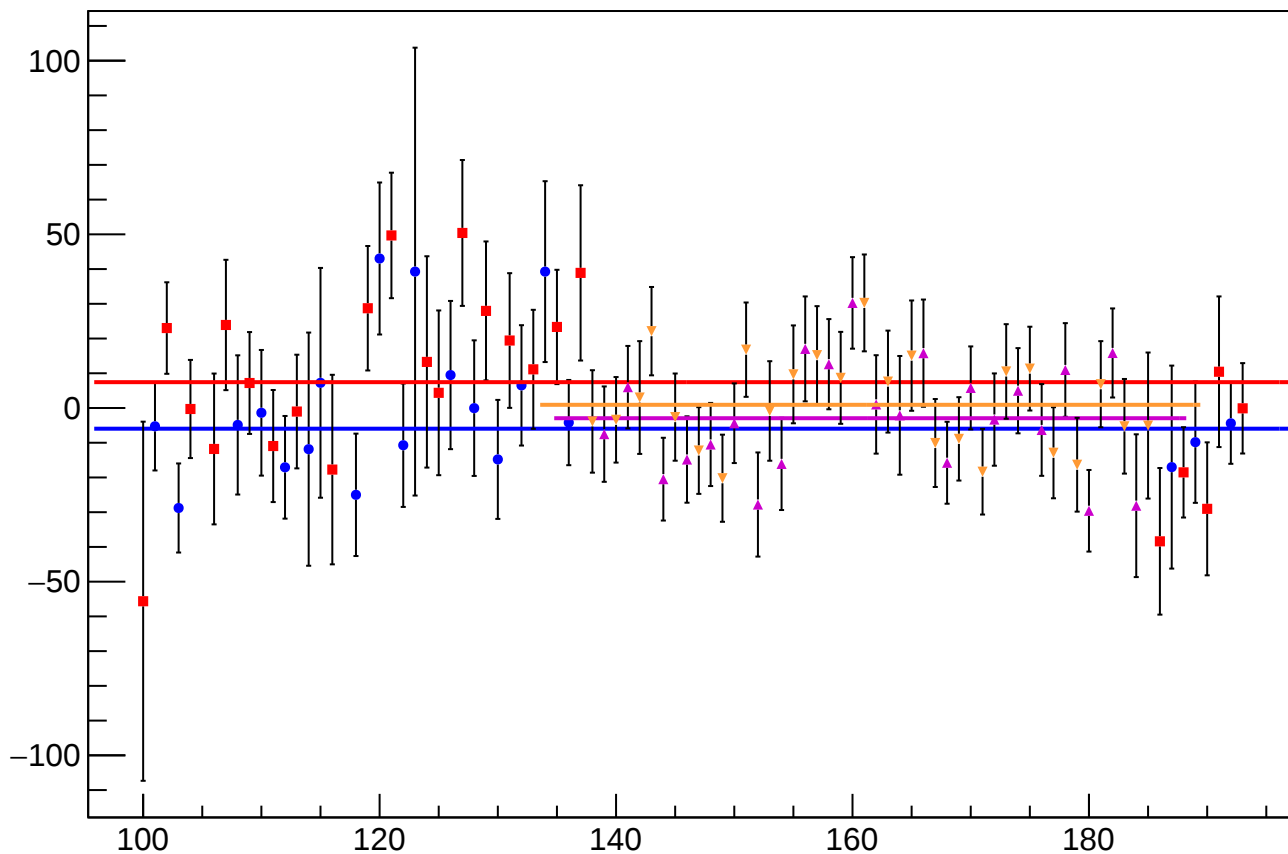
Right: 194.352 $\pm$ 0.035 χ^2 /NDF: 3908270.6/43

In: 184.585 $\pm$ 0.027 χ^2 /NDF:3223666.6/42

Out: 193.328 $\pm$ 0.027 χ^2 /NDF:4269995.7/48

All: 188.955 $\pm$ 0.019 χ^2 /NDF: 7545399.8/91

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.958 ± 3.941 χ^2/NDF : 15.4/19

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 7.440 ± 3.683 χ^2/NDF : 34.9/23

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

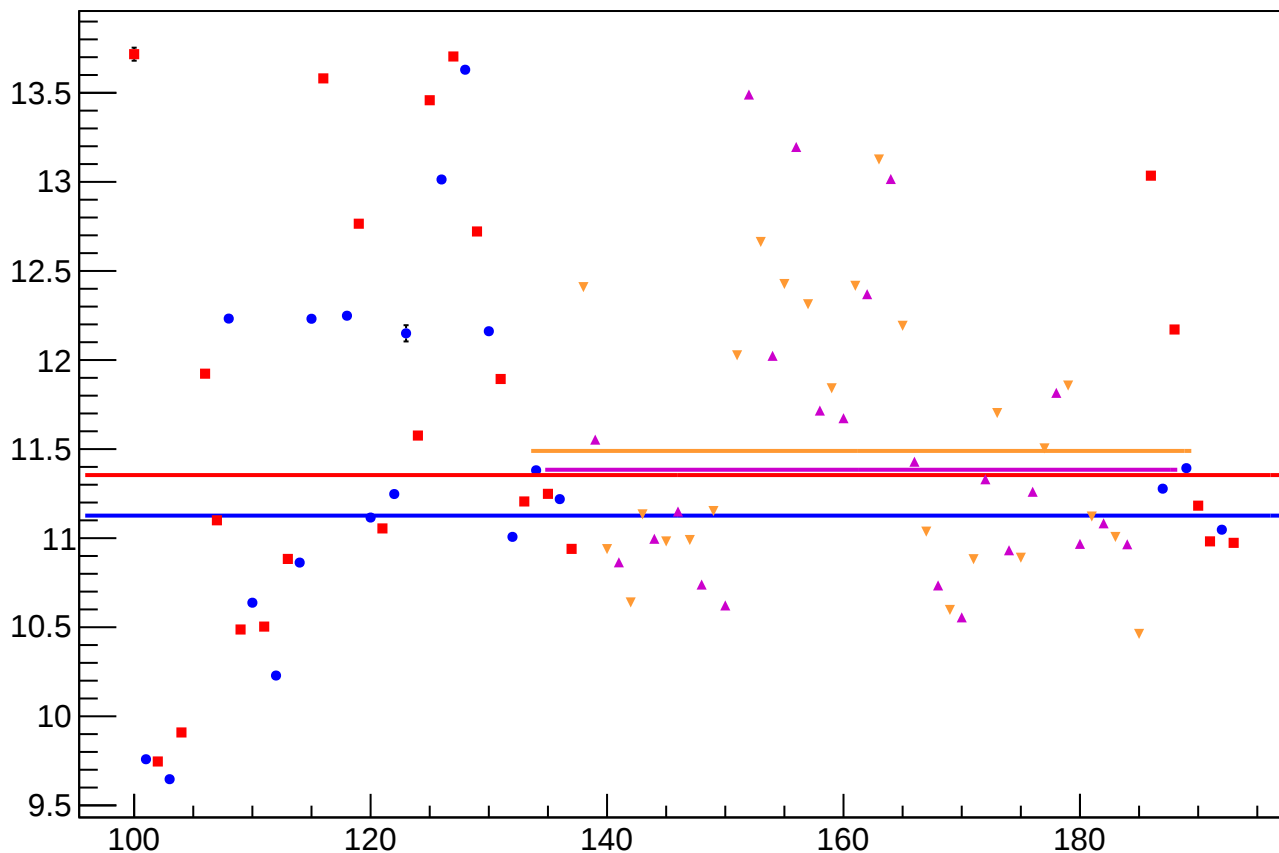
Right: 1.194 ± 2.691 χ^2/NDF : 56.5/43

In: -3.927 ± 2.252 χ^2/NDF : 46.8/42

Out: 3.195 ± 2.175 χ^2/NDF : 61.0/48

All: -0.242 ± 1.565 χ^2/NDF : 113.0/91

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.127 $\pm$ 0.003 χ^2 /NDF: 132570.2/19

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.354 $\pm$ 0.003 χ^2 /NDF: 172687.6/23

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

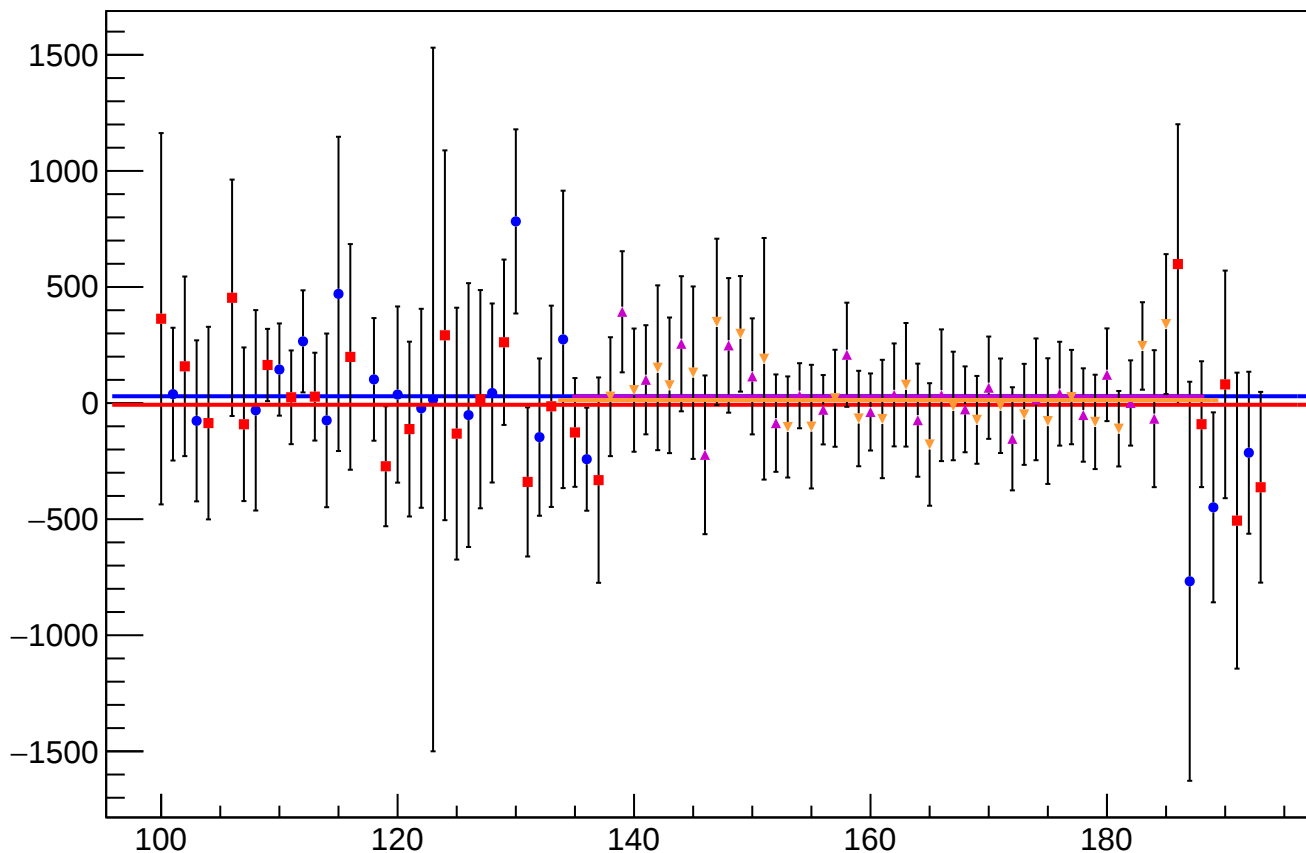
Right: 11.248 $\pm$ 0.002 χ^2 /NDF: 308817.4/43

In: 11.300 $\pm$ 0.002 χ^2 /NDF:288117.3/42

Out: 11.442 $\pm$ 0.002 χ^2 /NDF:306851.6/48

All: 11.374 $\pm$ 0.001 χ^2 /NDF: 599108.4/91

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 29.425 $\pm$ 76.337 χ^2 /NDF: 10.4/19

Left Out: 13.323 $\pm$ 47.662 χ^2 /NDF:7.9/24

Right Out: -7.284 $\pm$ 65.696 χ^2 /NDF: 9.0/23

Left In: 28.050 $\pm$ 44.681 χ^2 /NDF:6.6/22

Left: 21.161 $\pm$ 32.597 χ^2 /NDF: 14.6/47

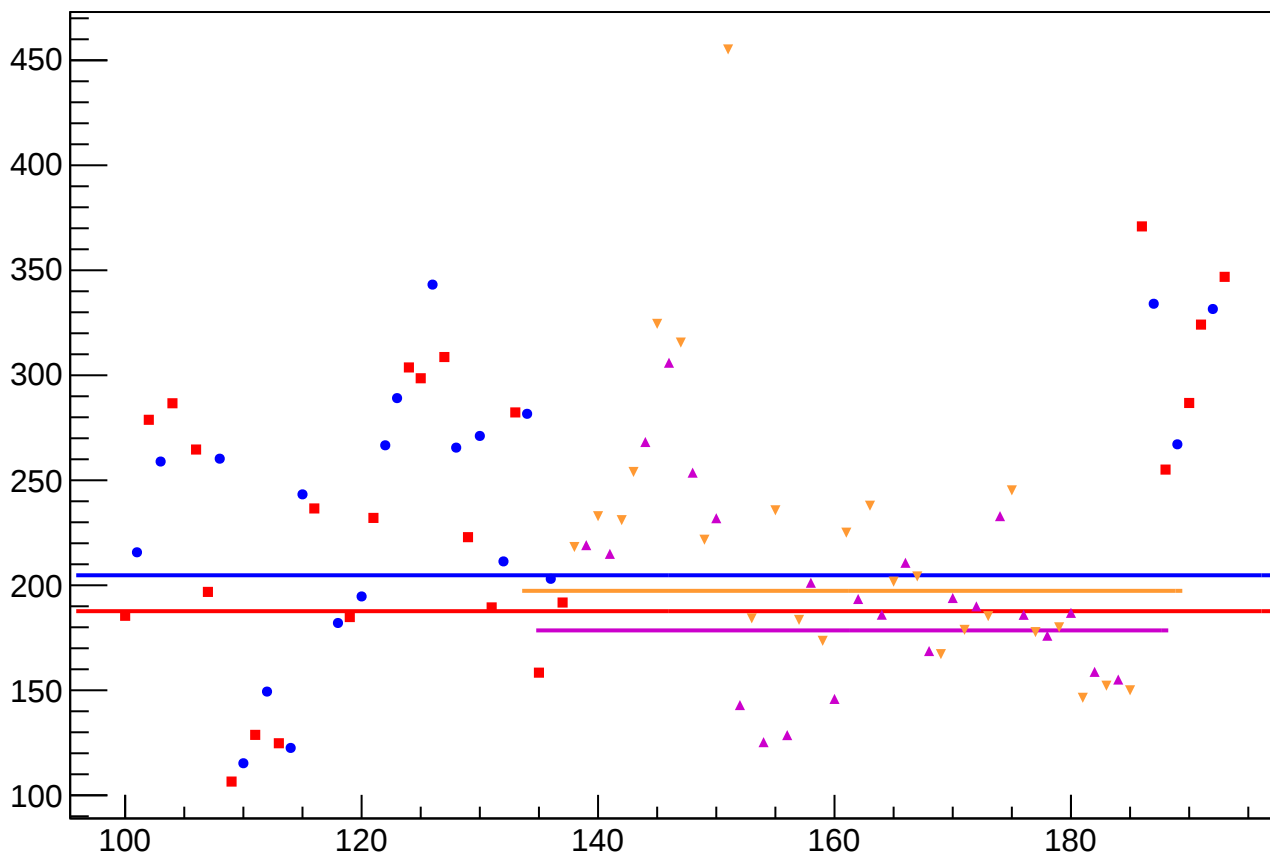
Right: 8.336 $\pm$ 49.795 χ^2 /NDF: 19.6/43

In: 28.401 $\pm$ 38.561 χ^2 /NDF:17.1/42

Out: 6.217 $\pm$ 38.579 χ^2 /NDF:17.0/48

All: 17.314 $\pm$ 27.273 χ^2 /NDF: 34.2/91

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.766 $\pm$ 0.054 χ^2 /NDF: 1395281.0/19

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 187.672 $\pm$ 0.046 χ^2 /NDF: 2442687.7/23

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

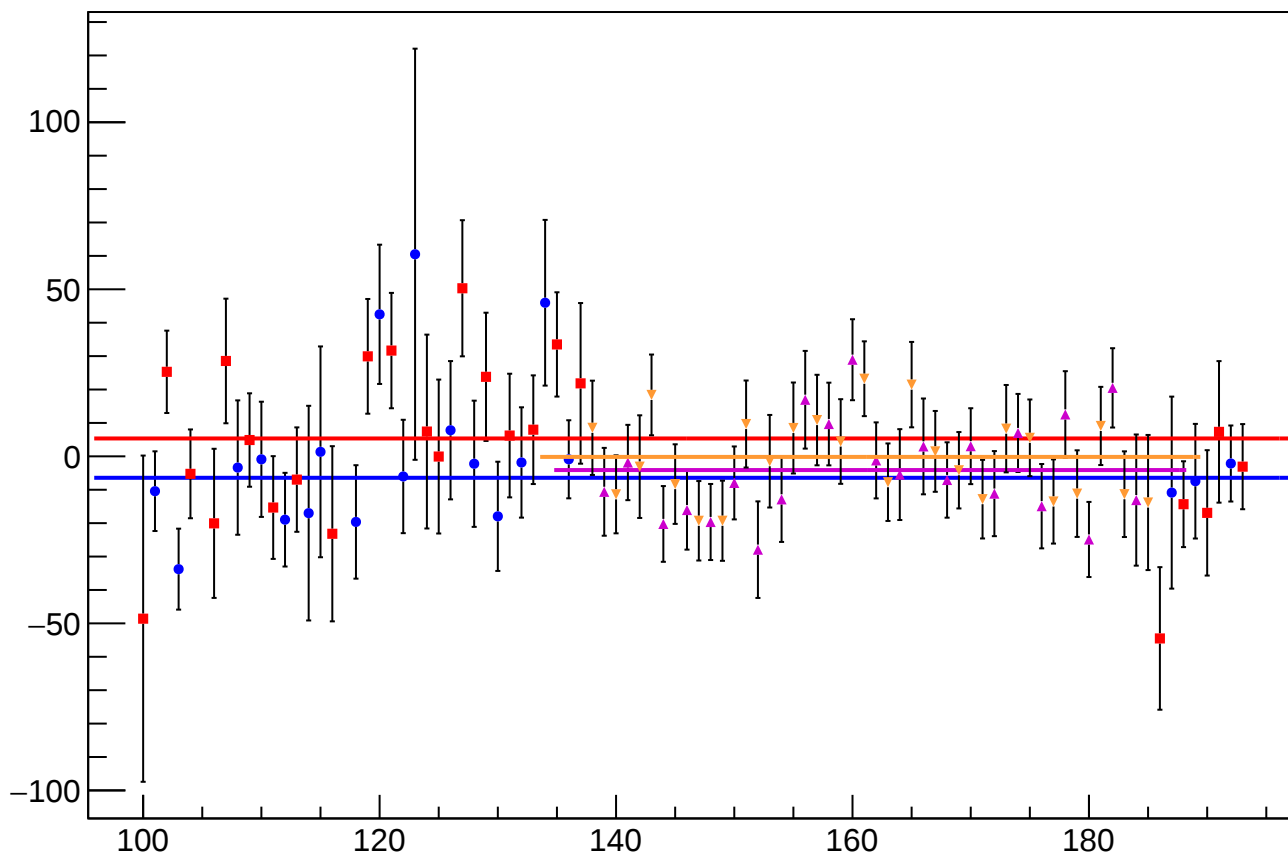
Right: 194.945 $\pm$ 0.035 χ^2 /NDF: 3895588.6/43

In: 185.212 $\pm$ 0.027 χ^2 /NDF:3213789.3/42

Out: 194.016 $\pm$ 0.027 χ^2 /NDF:4261980.9/48

All: 189.612 $\pm$ 0.019 χ^2 /NDF: 7527878.1/91

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.422 ± 3.778 χ^2/NDF : 19.6/19

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 5.349 ± 3.549 χ^2/NDF : 37.0/23

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

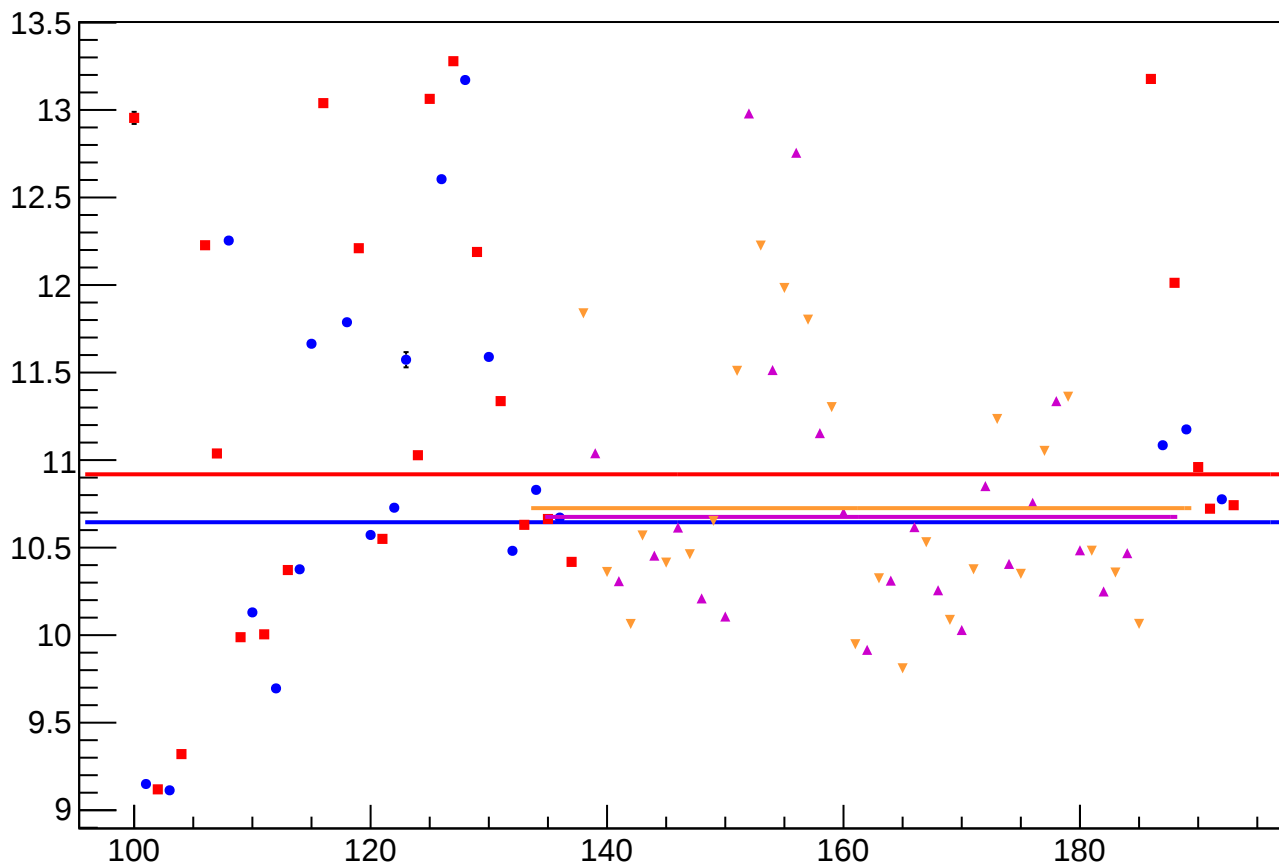
Right: -0.170 ± 2.587 χ^2/NDF : 61.7/43

In: -4.842 ± 2.129 χ^2/NDF : 51.4/42

Out: 1.680 ± 2.055 χ^2/NDF : 62.9/48

All: -1.466 ± 1.479 χ^2/NDF : 119.2/91

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.645 $\pm$ 0.003 χ^2 /NDF: 162255.1/19

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.919 $\pm$ 0.003 χ^2 /NDF: 219102.4/23

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

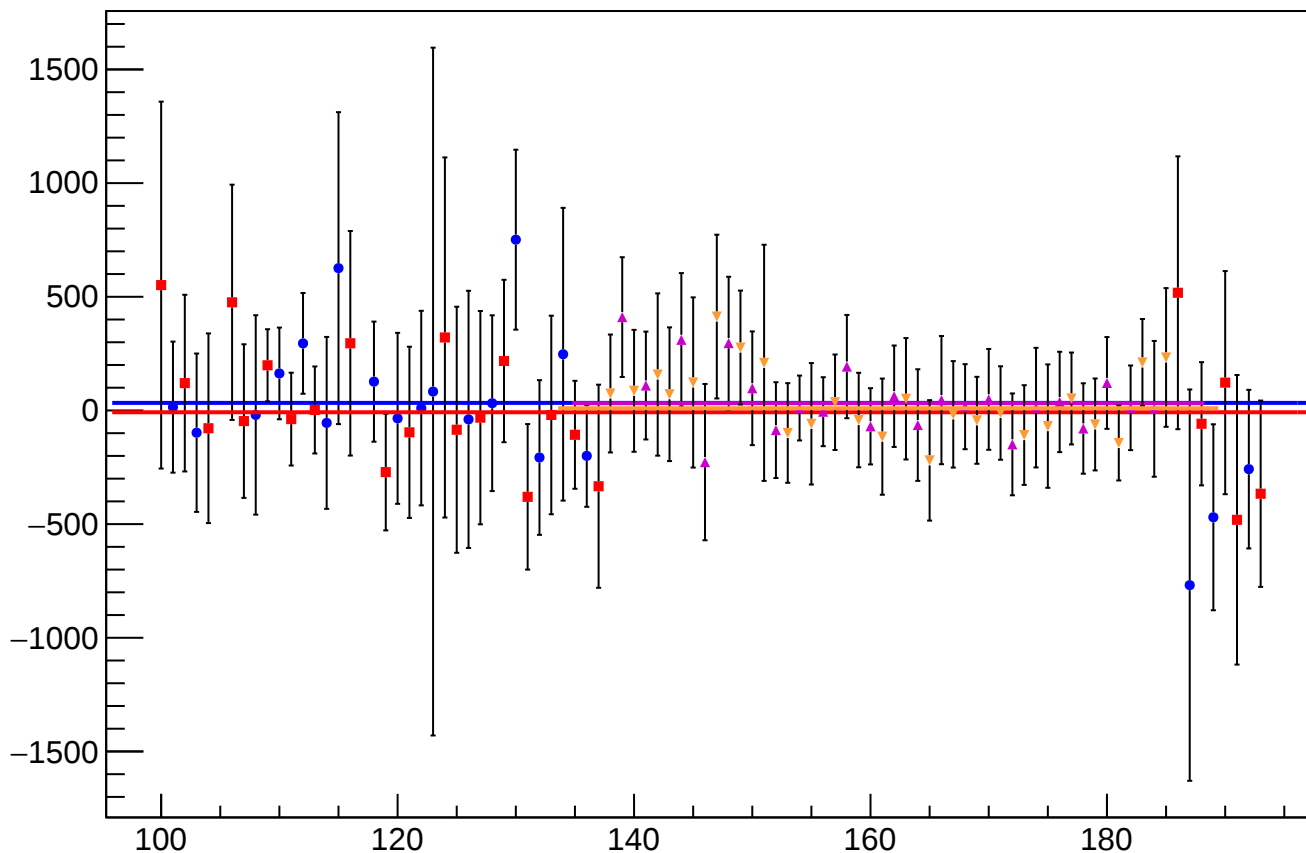
Right: 10.790 $\pm$ 0.002 χ^2 /NDF: 386935.5/43

In: 10.666 $\pm$ 0.002 χ^2 /NDF:308281.8/42

Out: 10.790 $\pm$ 0.001 χ^2 /NDF:355216.4/48

All: 10.730 $\pm$ 0.001 χ^2 /NDF: 667038.5/91

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.267 $\pm$ 76.800 χ^2 /NDF: 11.0/19

Left Out: 9.801 $\pm$ 47.979 χ^2 /NDF: 7.5/24

Right Out: -7.946 $\pm$ 66.237 χ^2 /NDF: 9.6/23

Left In: 31.989 $\pm$ 45.038 χ^2 /NDF: 7.2/22

Left: 21.596 $\pm$ 32.837 χ^2 /NDF: 14.8/47

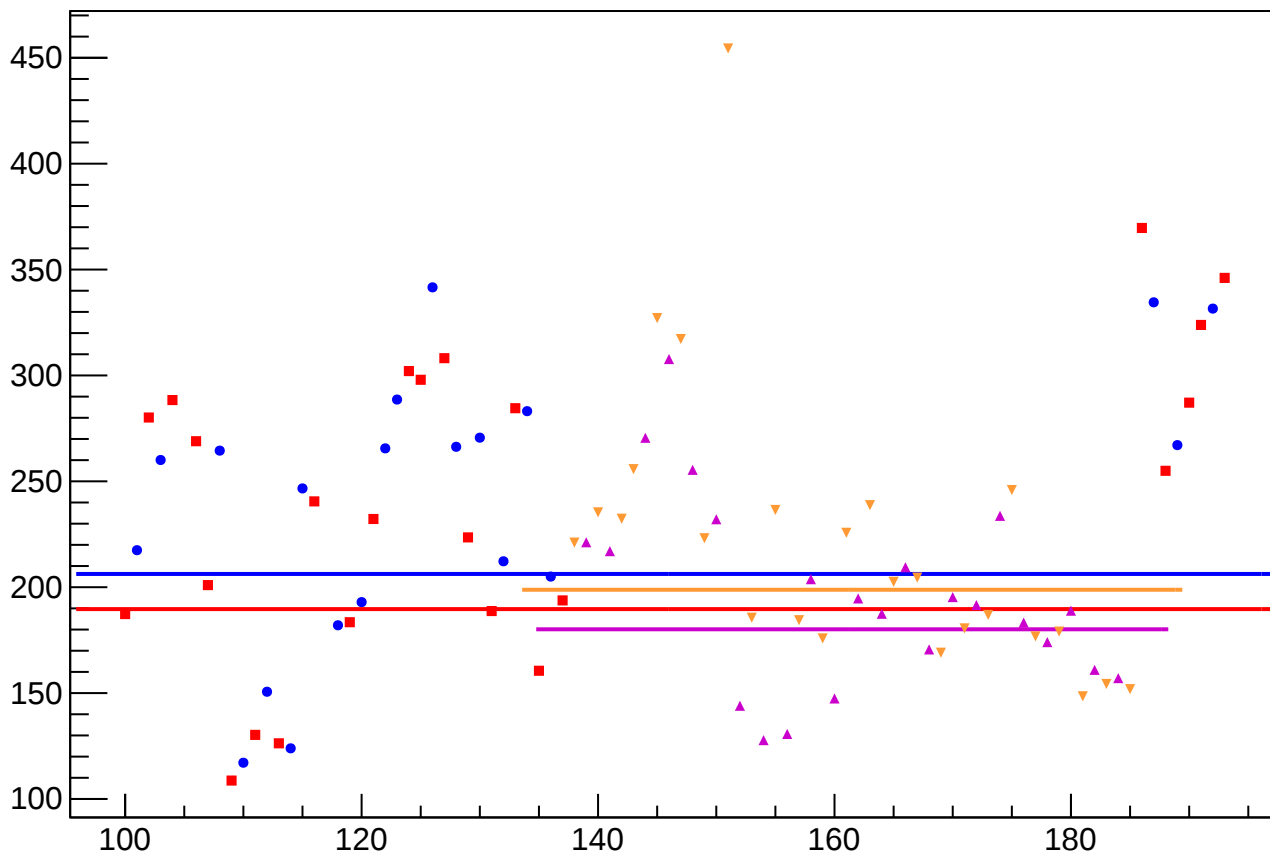
Right: 9.634 $\pm$ 50.159 χ^2 /NDF: 20.7/43

In: 32.316 $\pm$ 38.851 χ^2 /NDF: 18.2/42

Out: 3.694 $\pm$ 38.856 χ^2 /NDF: 17.1/48

All: 18.007 $\pm$ 27.473 χ^2 /NDF: 35.6/91

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.257 $\pm$ 0.054 χ^2 /NDF: 1359679.7/19

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 189.662 $\pm$ 0.047 χ^2 /NDF: 2372790.6/23

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

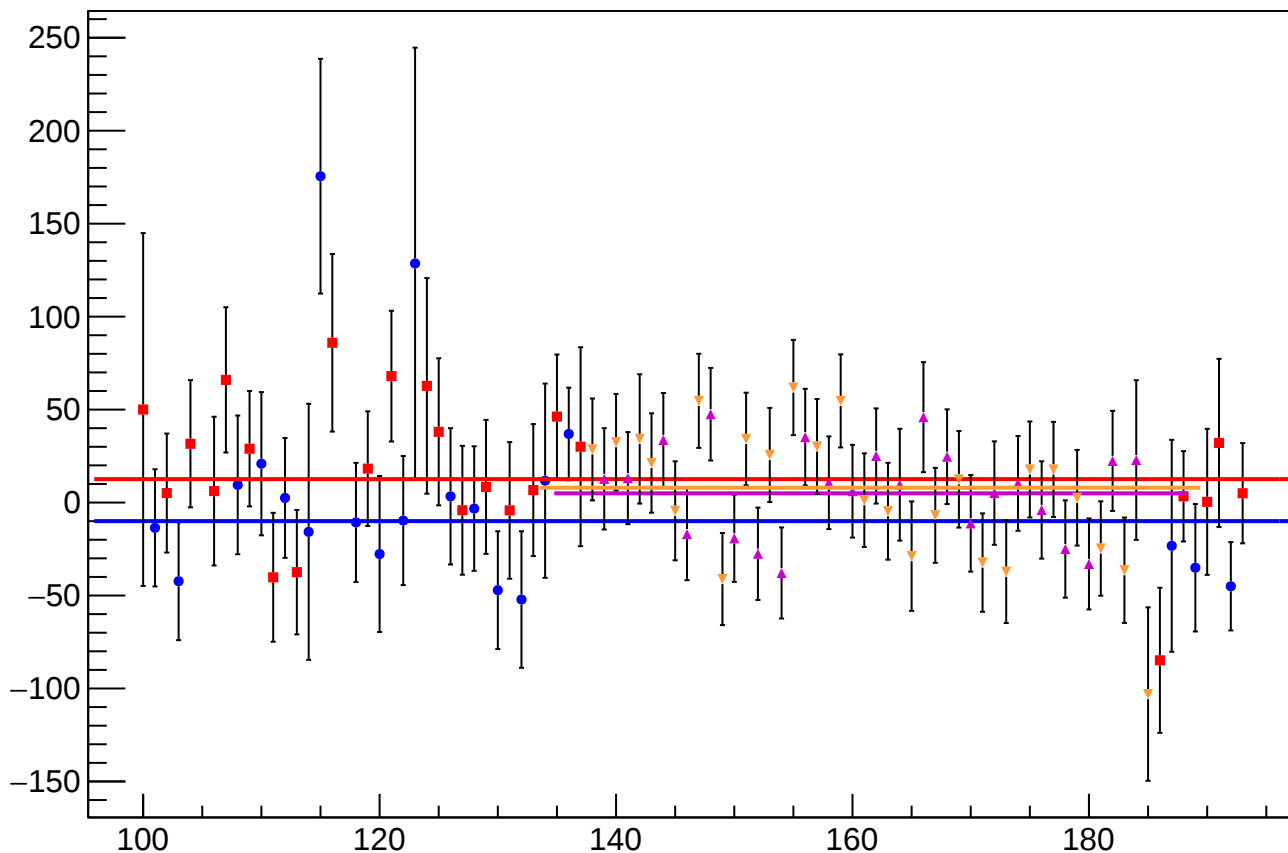
Right: 196.740 $\pm$ 0.035 χ^2 /NDF: 3786020.1/43

In: 186.811 $\pm$ 0.027 χ^2 /NDF:3125841.7/42

Out: 195.655 $\pm$ 0.027 χ^2 /NDF:4160879.4/48

All: 191.232 $\pm$ 0.019 χ^2 /NDF: 7338543.0/91

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.977 ± 8.019 $\chi^2/\text{NDF}: 21.7/19$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 12.606 ± 7.358 $\chi^2/\text{NDF}: 21.6/23$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

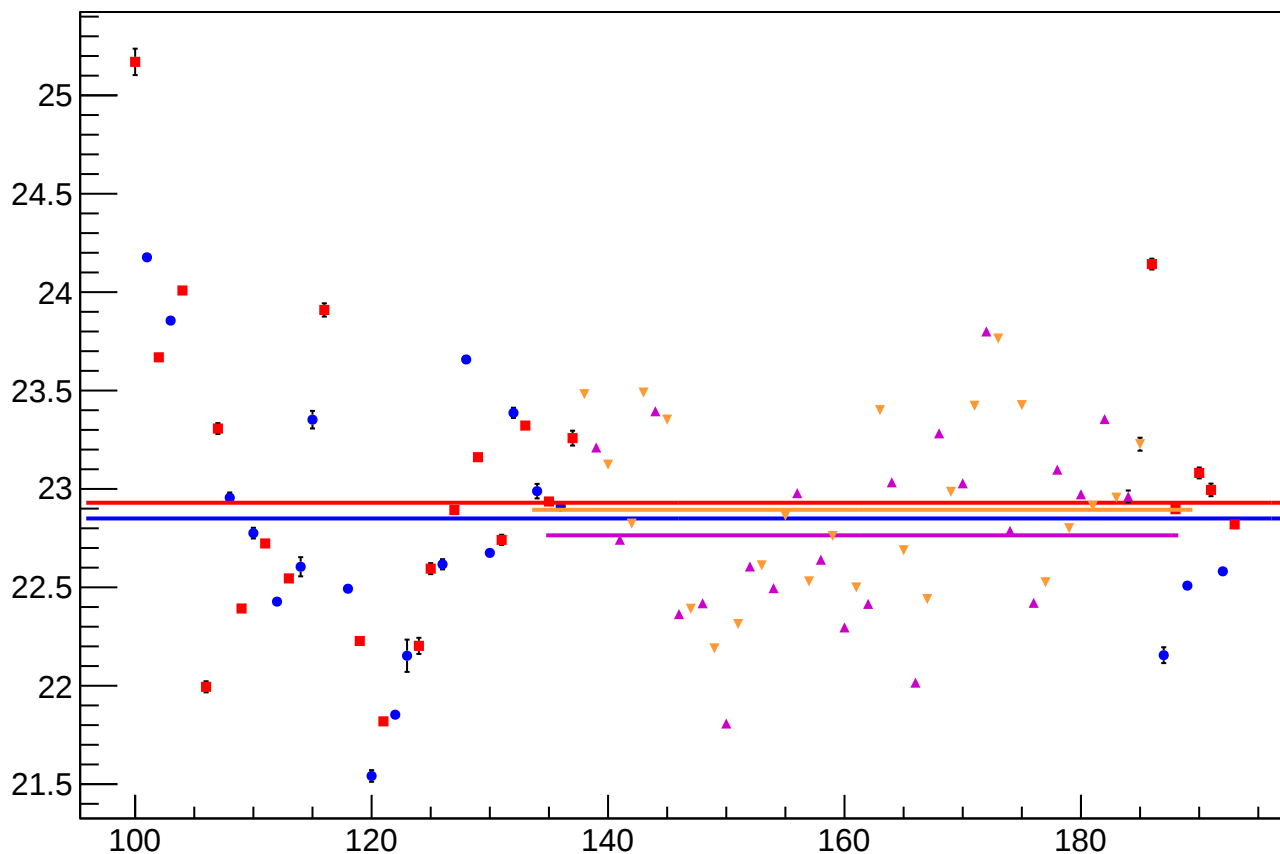
Right: 2.283 ± 5.421 $\chi^2/\text{NDF}: 47.7/43$

In: 0.256 ± 4.504 $\chi^2/\text{NDF}: 44.6/42$

Out: 9.578 ± 4.315 $\chi^2/\text{NDF}: 59.3/48$

All: 5.117 ± 3.116 $\chi^2/\text{NDF}: 106.1/91$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.850 $\pm$ 0.006 χ^2 /NDF: 12504.2/19

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF: 13070.5/24

Right Out: 22.930 $\pm$ 0.005 χ^2 /NDF: 13176.5/23

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF: 14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

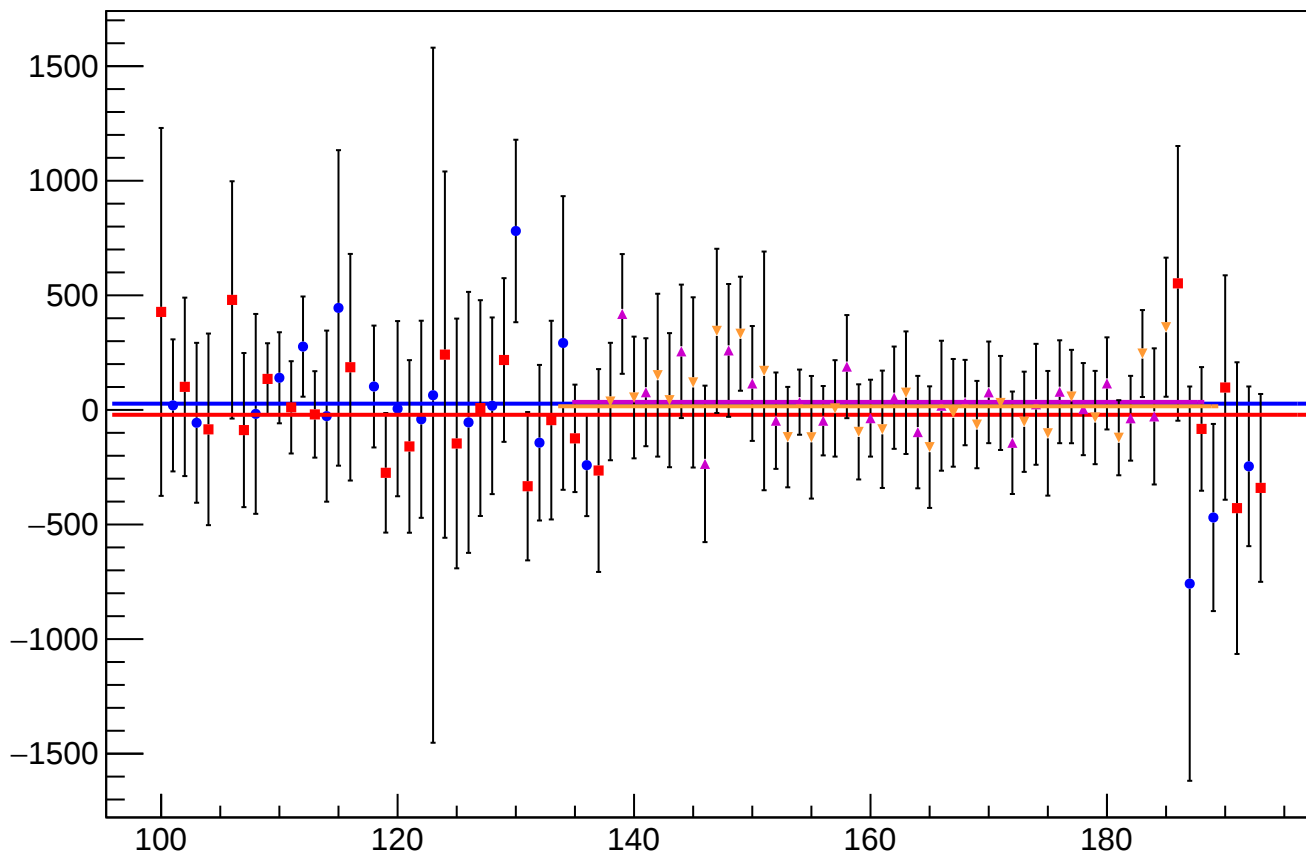
Right: 22.893 $\pm$ 0.004 χ^2 /NDF: 25788.7/43

In: 22.791 $\pm$ 0.003 χ^2 /NDF: 27326.3/42

Out: 22.906 $\pm$ 0.003 χ^2 /NDF: 26278.1/48

All: 22.851 $\pm$ 0.002 χ^2 /NDF: 54285.5/91

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 27.273+/-76.483 χ^2/NDF : 10.6/19

Left Out: 15.904+/-47.898 χ^2/NDF : 8.4/24

Right Out: -21.232+/-65.810 χ^2/NDF : 7.8/23

Left In: 34.919+/-44.971 χ^2/NDF : 6.6/22

Left: 26.010+/-32.785 χ^2/NDF : 15.1/47

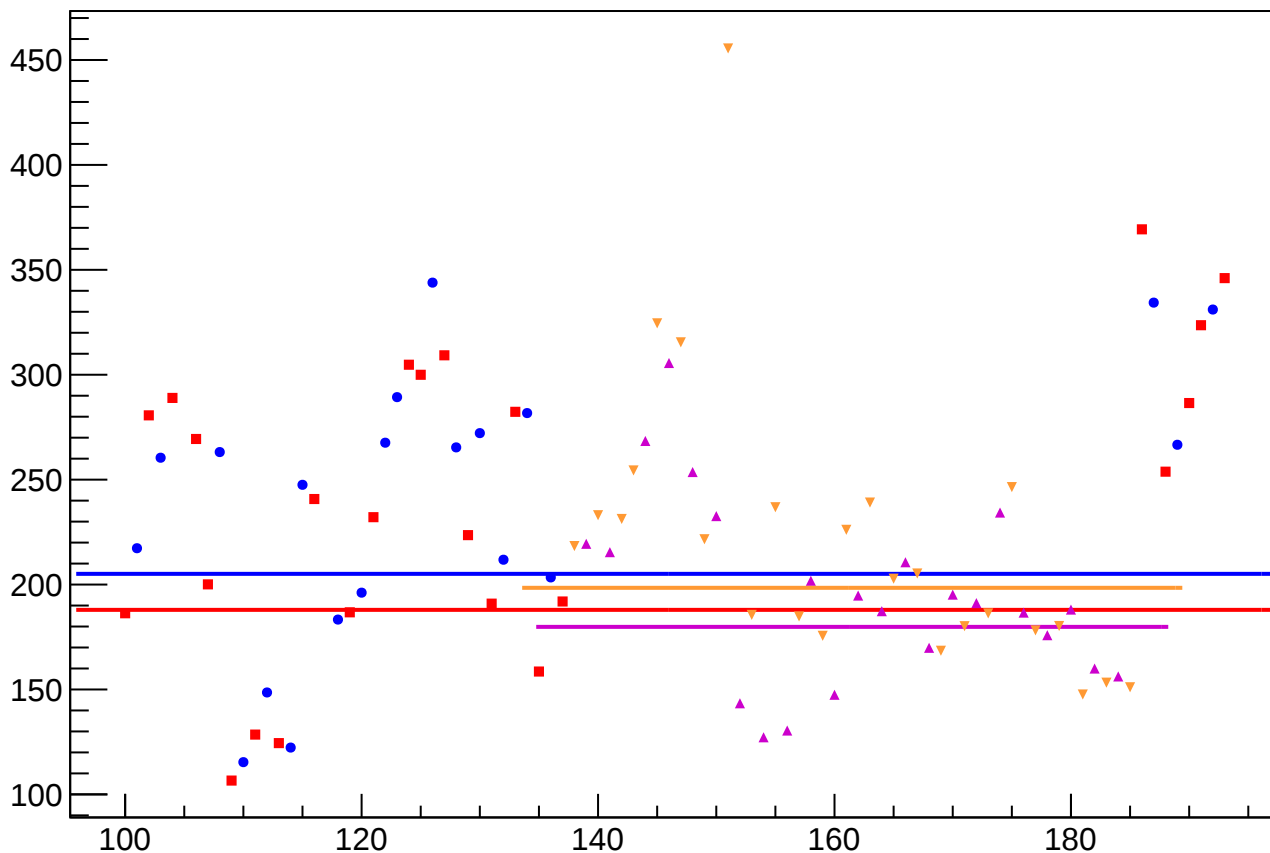
Right: -0.598+/-49.885 χ^2/NDF : 18.6/43

In: 32.954+/-38.766 χ^2/NDF : 17.2/42

Out: 3.044+/-38.727 χ^2/NDF : 16.4/48

All: 17.984+/-27.398 χ^2/NDF : 33.9/91

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.107 $\pm$ 0.054 χ^2 /NDF: 1406139.2/19

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 187.943 $\pm$ 0.047 χ^2 /NDF: 2458361.1/23

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

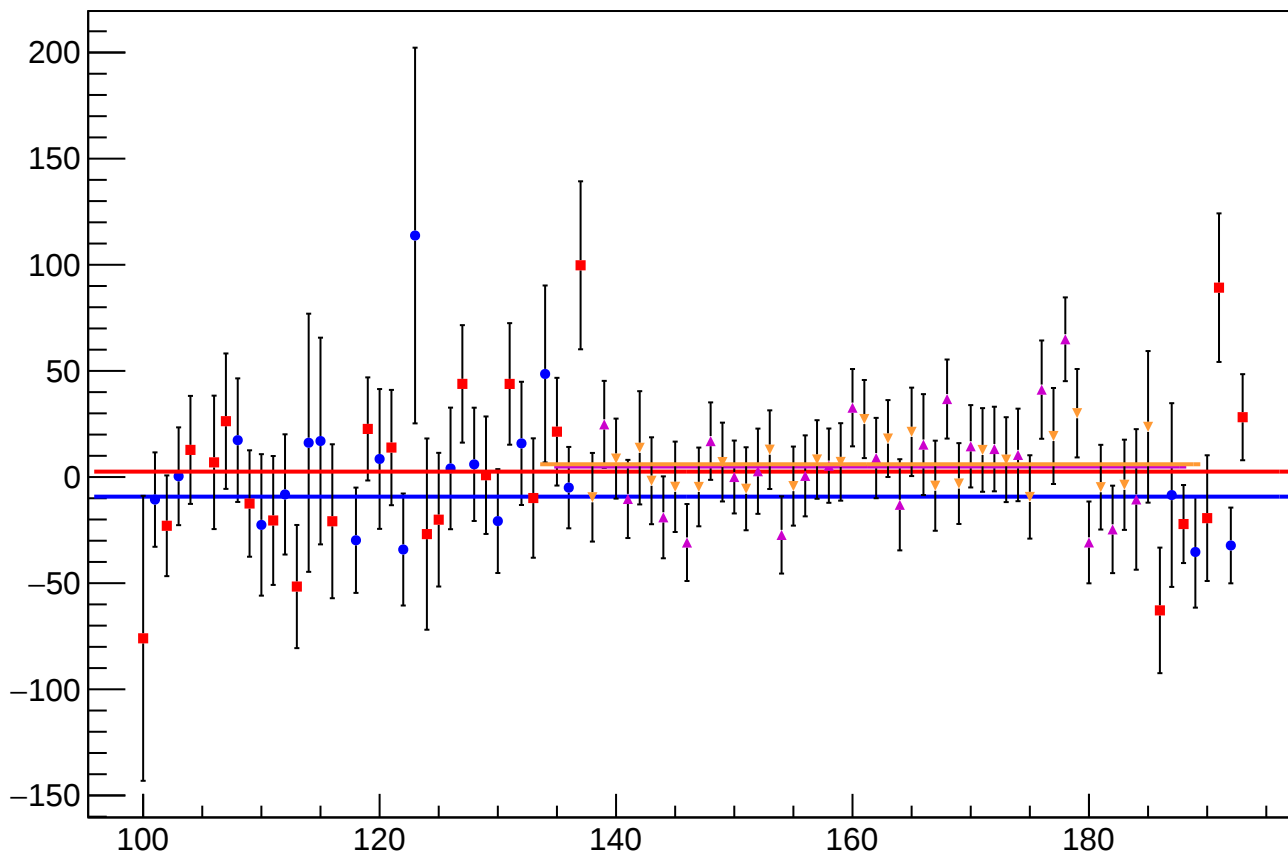
Right: 195.244 $\pm$ 0.035 χ^2 /NDF: 3922374.7/43

In: 186.330 $\pm$ 0.027 χ^2 /NDF:3157180.7/42

Out: 194.811 $\pm$ 0.027 χ^2 /NDF:4253121.6/48

All: 190.575 $\pm$ 0.019 χ^2 /NDF: 7458211.3/91

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -9.234 ± 6.208 χ^2/NDF : 11.6/19

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 2.553 ± 5.727 χ^2/NDF : 36.0/23

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

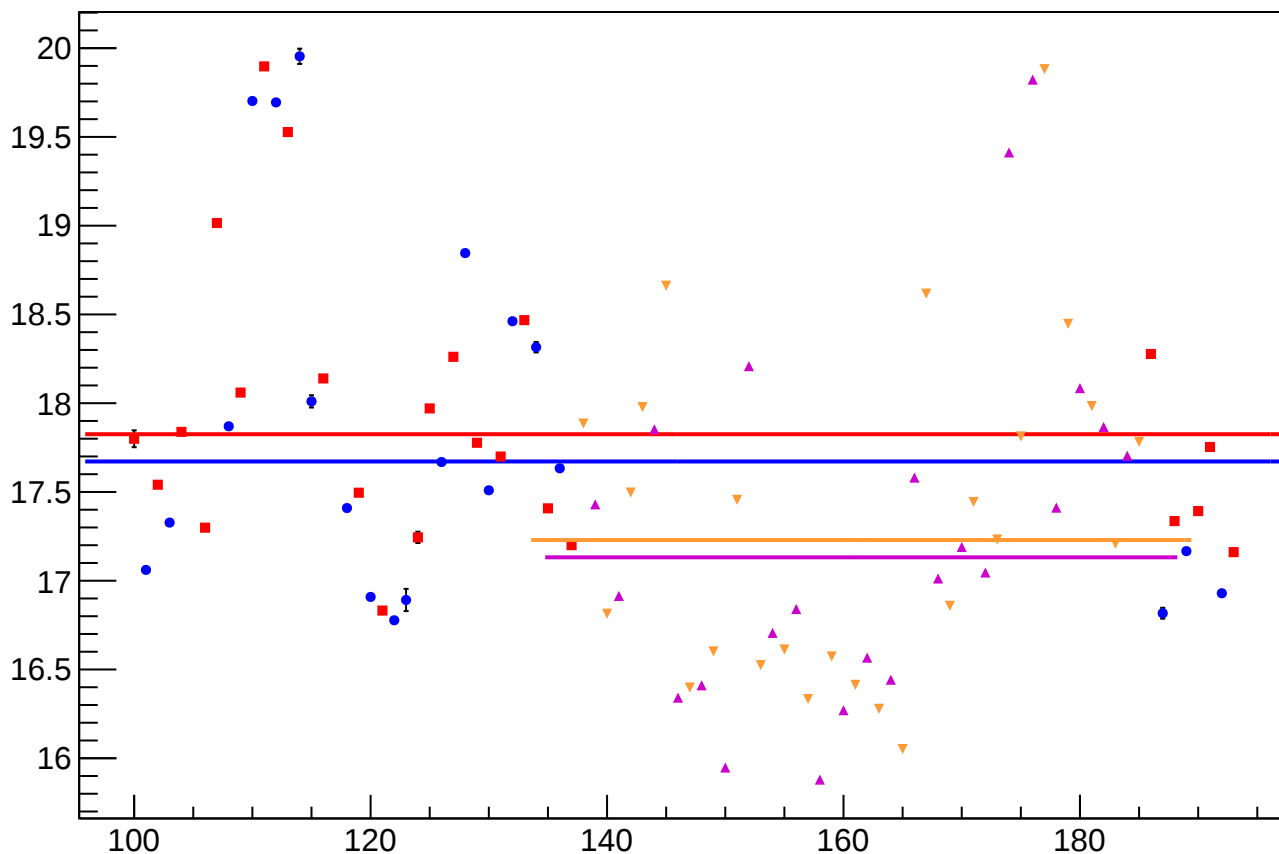
Right: -2.866 ± 4.209 χ^2/NDF : 49.5/43

In: 0.627 ± 3.426 χ^2/NDF : 50.0/42

Out: 4.877 ± 3.289 χ^2/NDF : 44.3/48

All: 2.838 ± 2.372 χ^2/NDF : 95.2/91

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.672 $\pm$ 0.004 χ^2 /NDF: 37254.9/19

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.825 $\pm$ 0.004 χ^2 /NDF: 30663.0/23

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

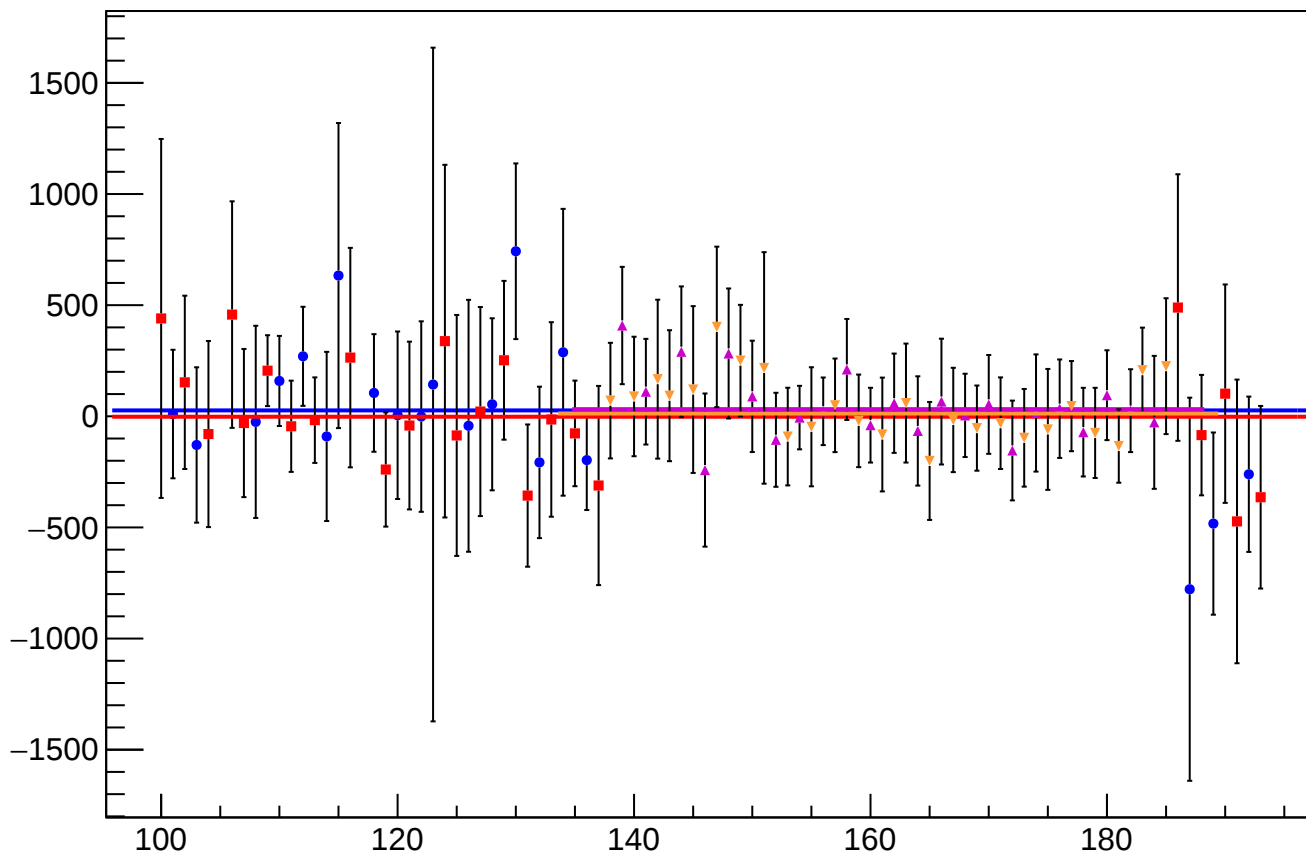
Right: 17.755 $\pm$ 0.003 χ^2 /NDF: 68579.1/43

In: 17.296 $\pm$ 0.002 χ^2 /NDF:151773.3/42

Out: 17.426 $\pm$ 0.002 χ^2 /NDF:143816.2/48

All: 17.364 $\pm$ 0.002 χ^2 /NDF: 297077.4/91

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 26.495 $\pm$ 76.986 χ^2 /NDF: 10.8/19

Left Out: 12.474 $\pm$ 48.086 χ^2 /NDF:6.8/24

Right Out: -1.905 $\pm$ 66.371 χ^2 /NDF: 8.9/23

Left In: 32.159 $\pm$ 45.131 χ^2 /NDF:6.9/22

Left: 22.940 $\pm$ 32.908 χ^2 /NDF: 13.9/47

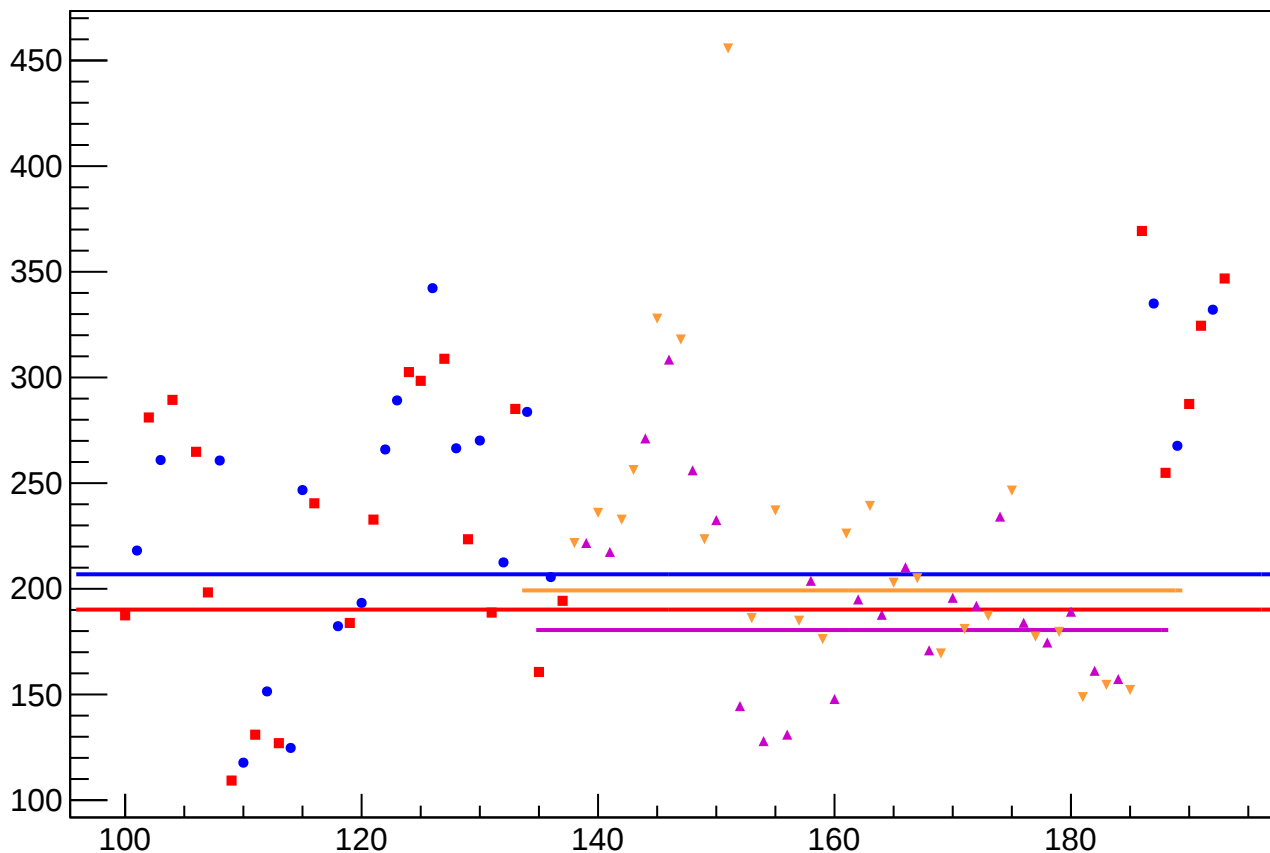
Right: 10.204 $\pm$ 50.269 χ^2 /NDF: 19.8/43

In: 30.711 $\pm$ 38.934 χ^2 /NDF:17.8/42

Out: 7.525 $\pm$ 38.940 χ^2 /NDF:15.7/48

All: 19.119 $\pm$ 27.533 χ^2 /NDF: 33.7/91

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.869 $\pm$ 0.054 χ^2 /NDF: 1342898.7/19

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 190.171 $\pm$ 0.047 χ^2 /NDF: 2350186.2/23

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

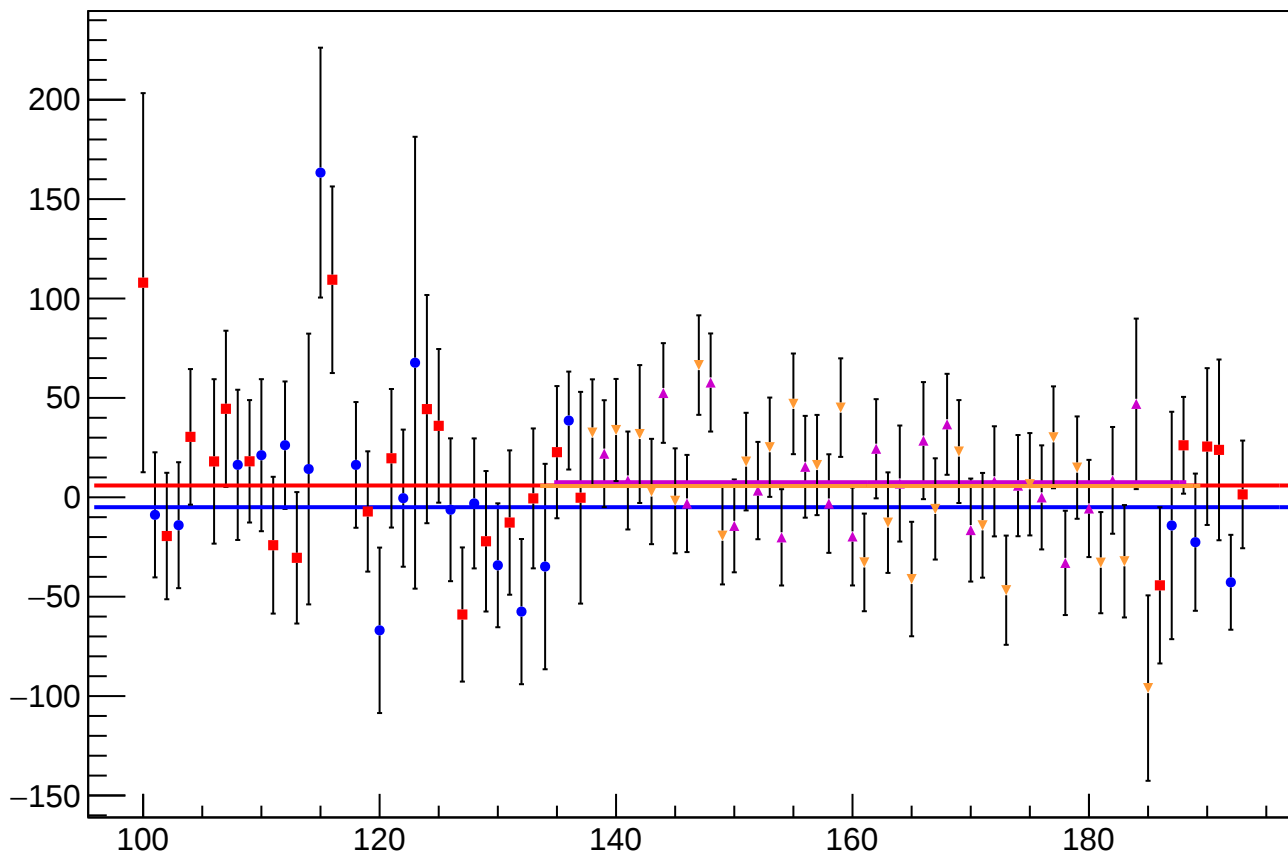
Right: 197.291 $\pm$ 0.036 χ^2 /NDF: 3747059.5/43

In: 187.240 $\pm$ 0.028 χ^2 /NDF:3111398.2/42

Out: 196.119 $\pm$ 0.028 χ^2 /NDF:4138777.0/48

All: 191.679 $\pm$ 0.019 χ^2 /NDF: 7302179.7/91

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.979 ± 7.971 χ^2/NDF : 21.4/19

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 5.941 ± 7.318 χ^2/NDF : 19.4/23

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

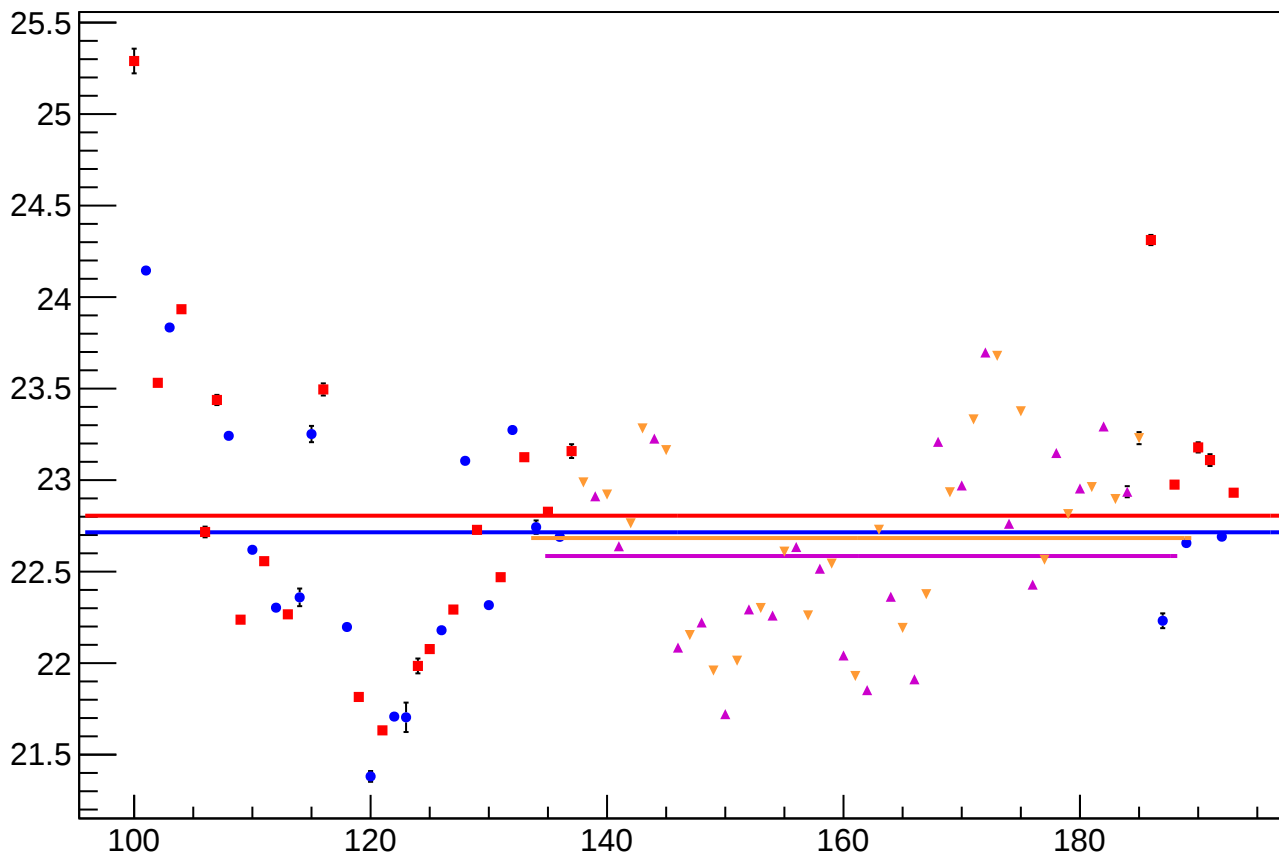
Right: 0.947 ± 5.391 χ^2/NDF : 41.8/43

In: 3.637 ± 4.472 χ^2/NDF : 41.4/42

Out: 5.765 ± 4.281 χ^2/NDF : 55.8/48

All: 4.747 ± 3.092 χ^2/NDF : 97.3/91

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.715 $\pm$ 0.006 χ^2 /NDF: 13689.8/19

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.806 $\pm$ 0.005 χ^2 /NDF: 16634.0/23

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

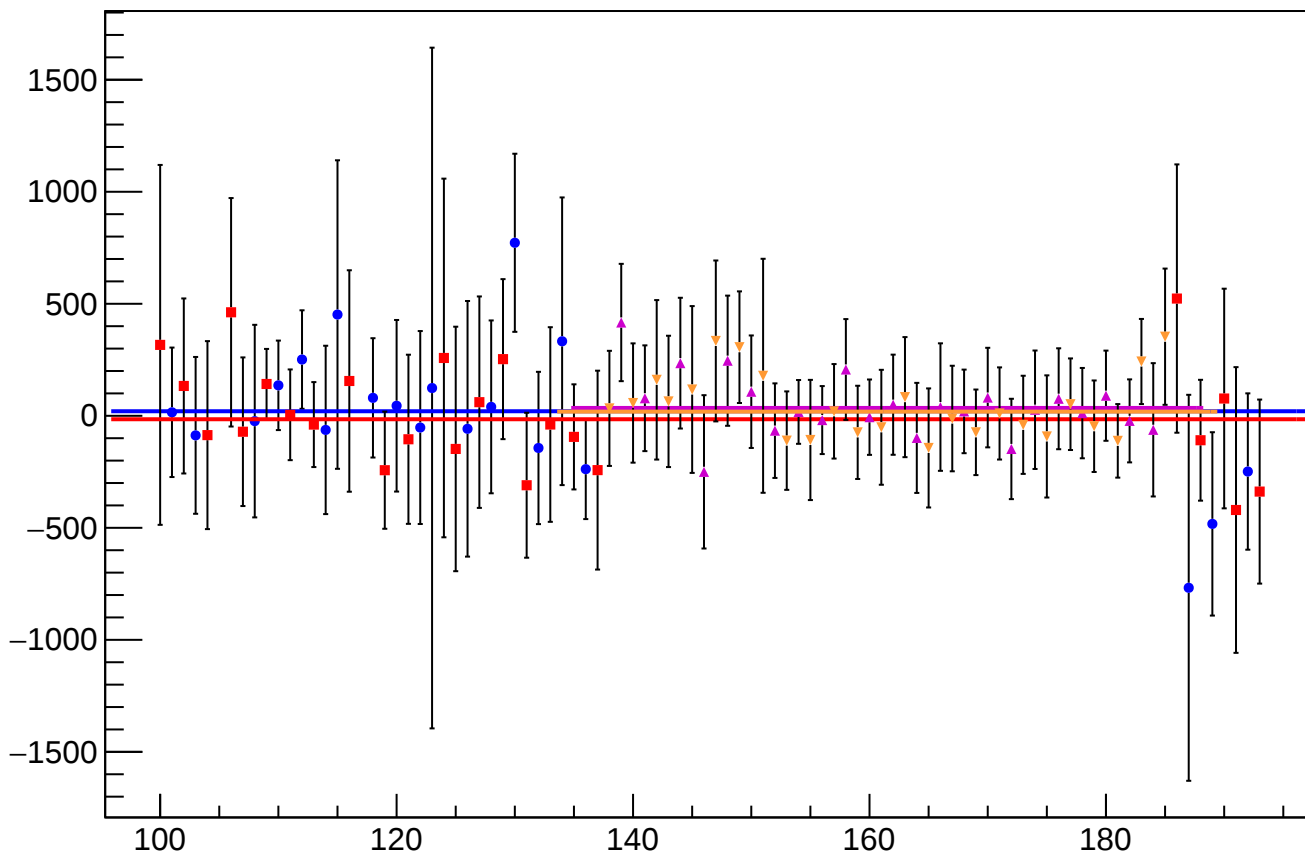
Right: 22.764 $\pm$ 0.004 χ^2 /NDF: 30464.3/43

In: 22.626 $\pm$ 0.003 χ^2 /NDF:32140.1/42

Out: 22.725 $\pm$ 0.003 χ^2 /NDF:33318.6/48

All: 22.678 $\pm$ 0.002 χ^2 /NDF: 65972.2/91

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 20.334 $\pm$ 76.671 χ^2 /NDF: 10.4/19

Left Out: 18.633 $\pm$ 48.006 χ^2 /NDF:7.6/24

Right Out: -15.352 $\pm$ 65.947 χ^2 /NDF: 7.2/23

Left In: 35.046 $\pm$ 45.063 χ^2 /NDF:6.3/22

Left: 27.358 $\pm$ 32.855 χ^2 /NDF: 13.9/47

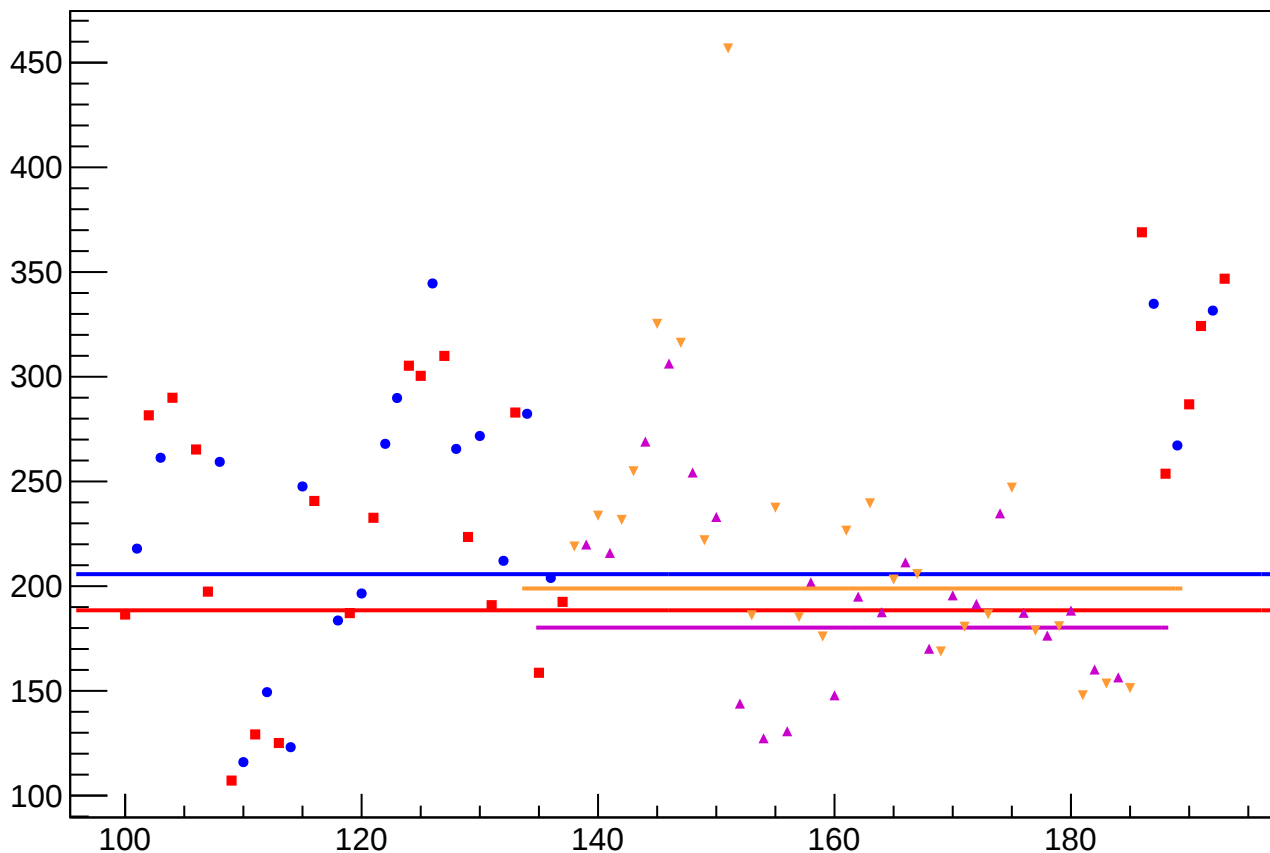
Right: -0.177 $\pm$ 49.997 χ^2 /NDF: 17.7/43

In: 31.269 $\pm$ 38.850 χ^2 /NDF:16.7/42

Out: 6.862 $\pm$ 38.812 χ^2 /NDF:14.9/48

All: 19.053 $\pm$ 27.457 χ^2 /NDF: 31.9/91

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.731 $\pm$ 0.054 χ^2 /NDF: 1388562.1/19

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 188.469 $\pm$ 0.047 χ^2 /NDF: 2434593.3/23

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

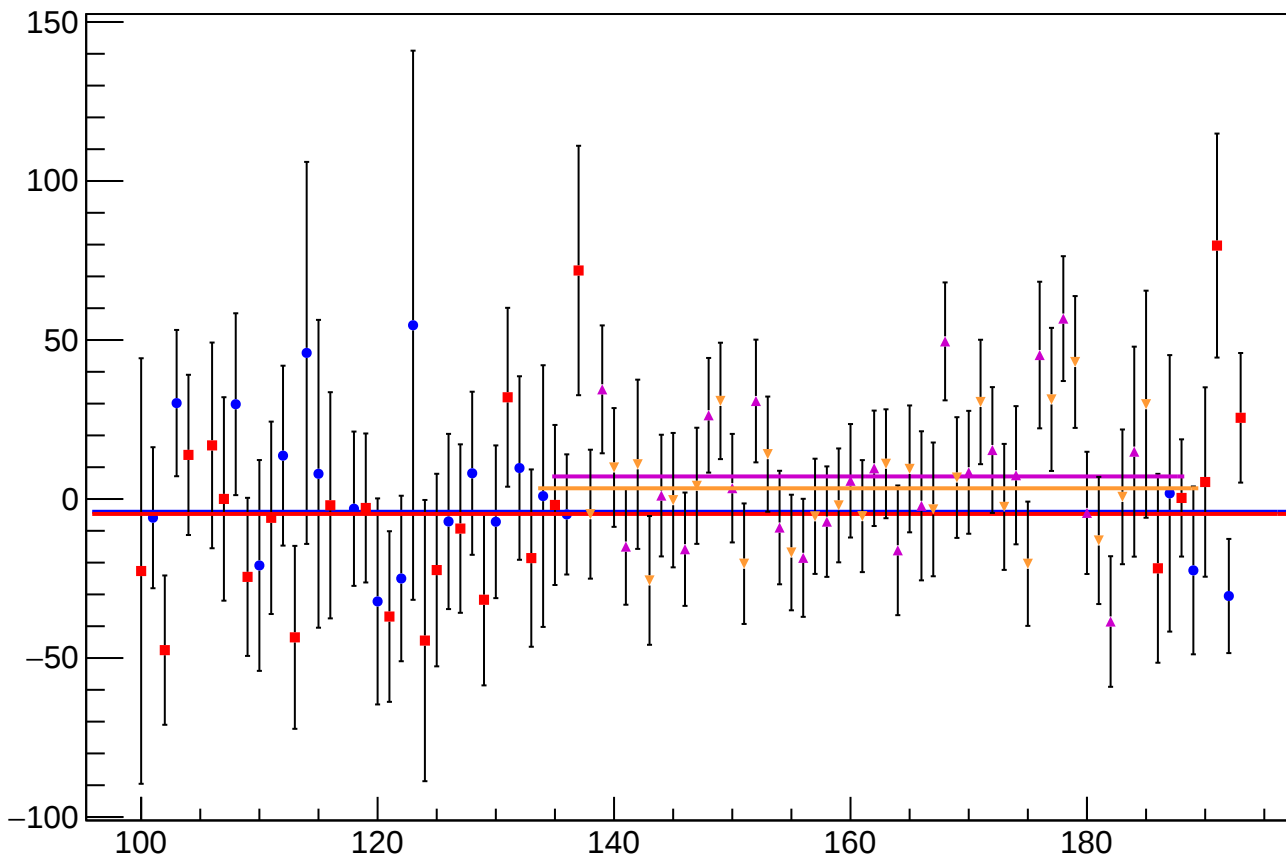
Right: 195.809 $\pm$ 0.035 χ^2 /NDF: 3881429.0/43

In: 186.760 $\pm$ 0.027 χ^2 /NDF:3142308.9/42

Out: 195.281 $\pm$ 0.027 χ^2 /NDF:4229696.5/48

All: 191.025 $\pm$ 0.019 χ^2 /NDF: 7420152.3/91

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.015 ± 6.142 $\chi^2/\text{NDF}: 10.1/19$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: -4.688 ± 5.673 $\chi^2/\text{NDF}: 24.7/23$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

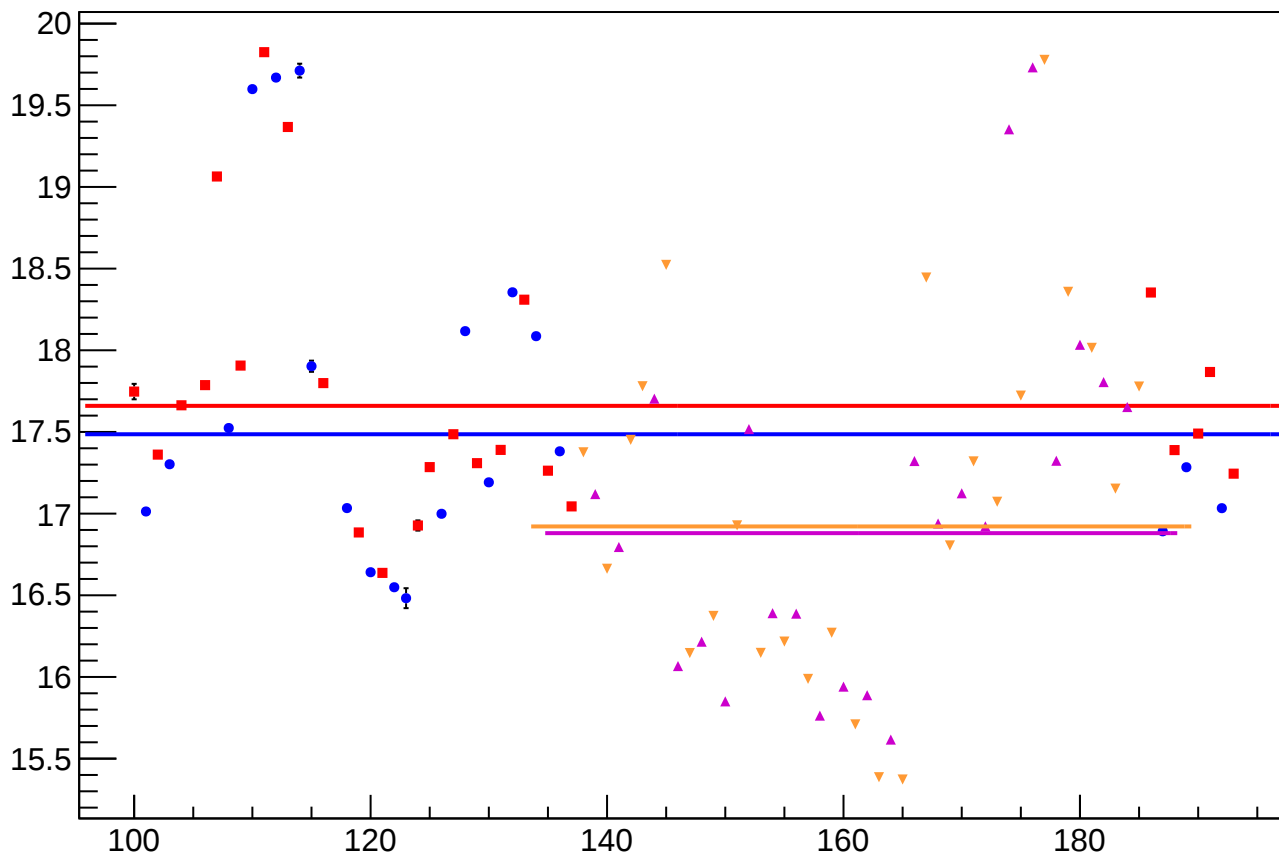
Right: -4.378 ± 4.167 $\chi^2/\text{NDF}: 34.8/43$

In: 3.734 ± 3.380 $\chi^2/\text{NDF}: 44.9/42$

Out: 0.743 ± 3.240 $\chi^2/\text{NDF}: 44.9/48$

All: 2.175 ± 2.339 $\chi^2/\text{NDF}: 90.2/91$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.486 $\pm$ 0.004 χ^2 /NDF: 35100.4/19

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.660 $\pm$ 0.004 χ^2 /NDF: 32859.2/23

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

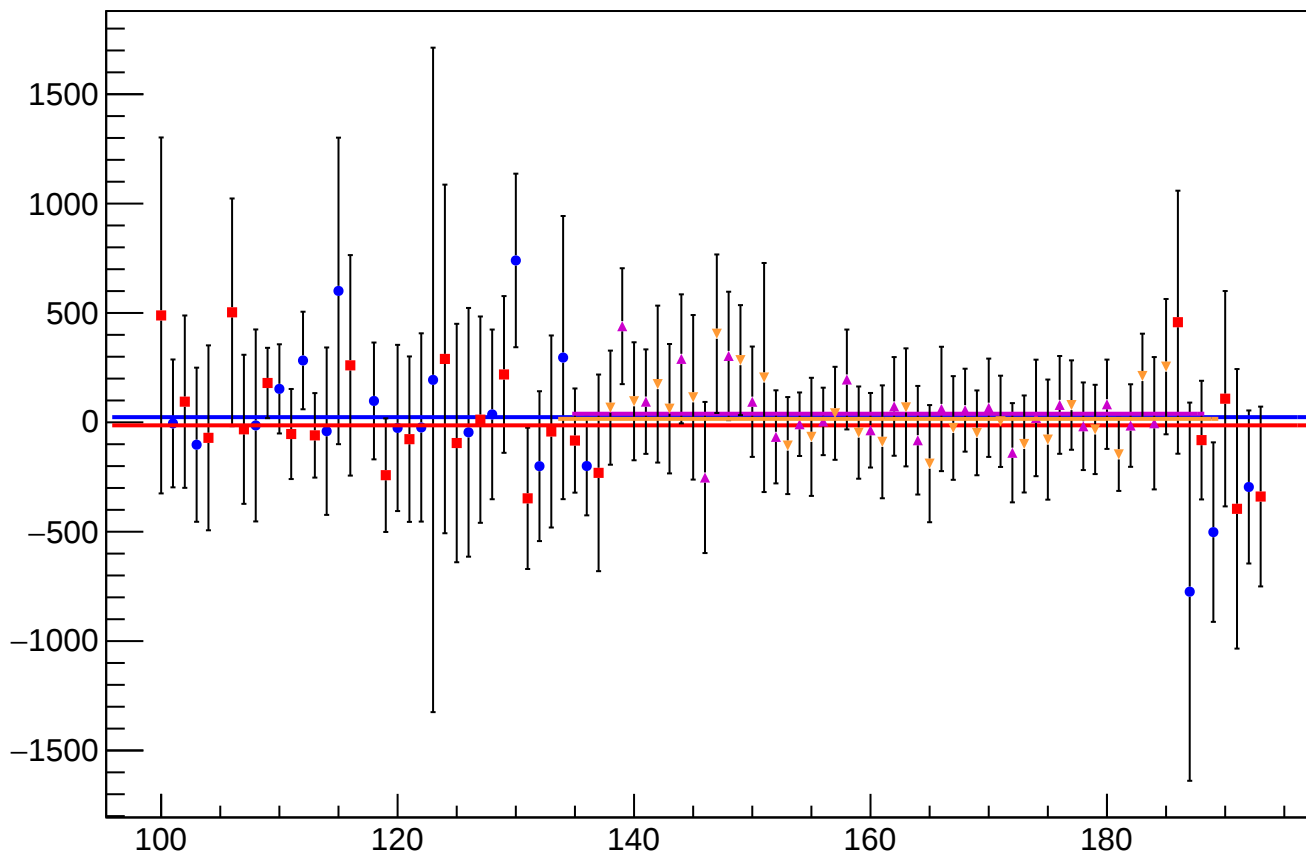
Right: 17.580 $\pm$ 0.003 χ^2 /NDF: 68824.7/43

In: 17.064 $\pm$ 0.002 χ^2 /NDF:170387.5/42

Out: 17.162 $\pm$ 0.002 χ^2 /NDF:194679.0/48

All: 17.115 $\pm$ 0.002 χ^2 /NDF: 365952.3/91

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 23.739 $\pm$ 77.404 χ^2 /NDF: 10.9/19

Left Out: 15.970 $\pm$ 48.503 χ^2 /NDF:7.4/24

Right Out: -13.713 $\pm$ 66.787 χ^2 /NDF: 7.8/23

Left In: 39.377 $\pm$ 45.571 χ^2 /NDF:6.9/22

Left: 28.402 $\pm$ 33.212 χ^2 /NDF: 14.4/47

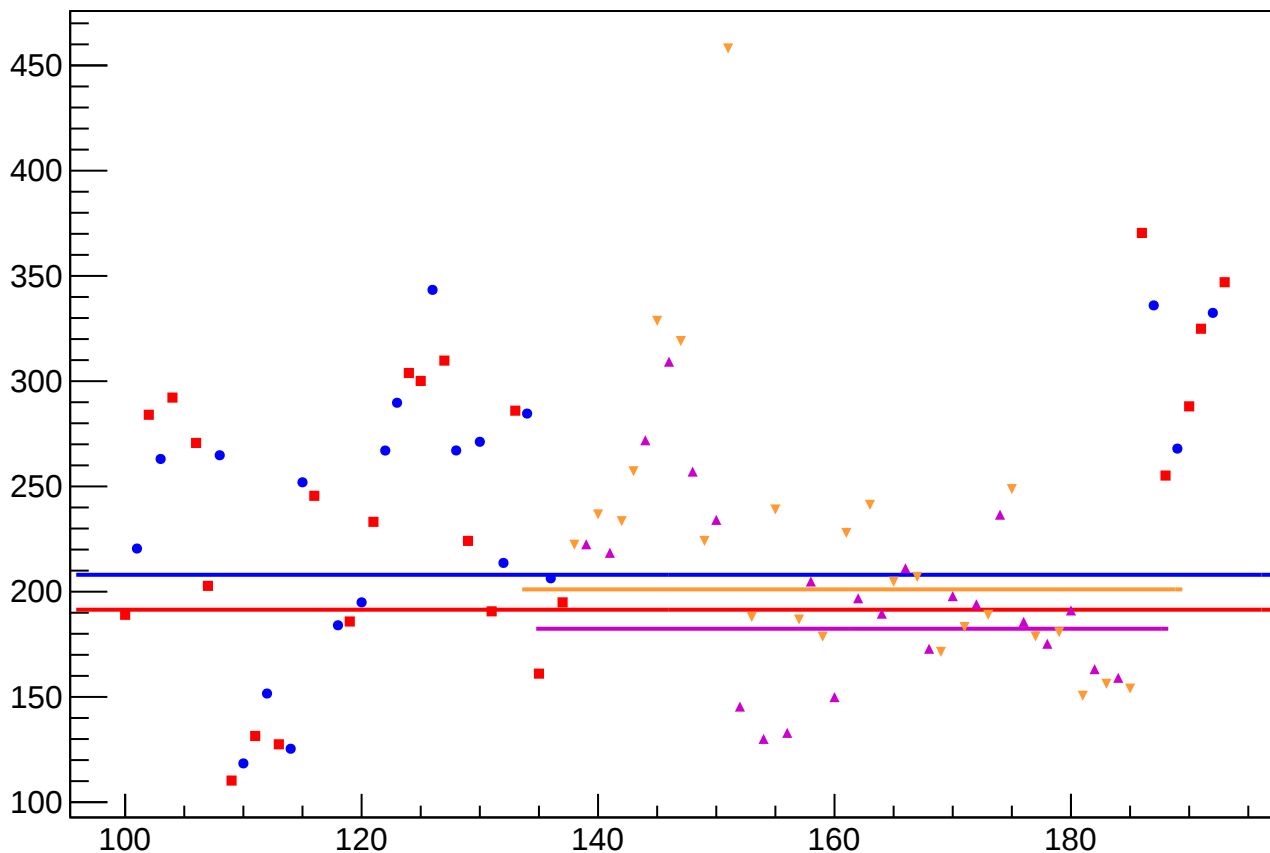
Right: 2.270 $\pm$ 50.566 χ^2 /NDF: 18.8/43

In: 35.352 $\pm$ 39.270 χ^2 /NDF:17.8/42

Out: 5.720 $\pm$ 39.246 χ^2 /NDF:15.3/48

All: 20.527 $\pm$ 27.760 χ^2 /NDF: 33.4/91

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 208.027 $\pm$ 0.055 χ^2 /NDF: 1342090.4/19

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 191.438 $\pm$ 0.047 χ^2 /NDF: 2346168.5/23

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

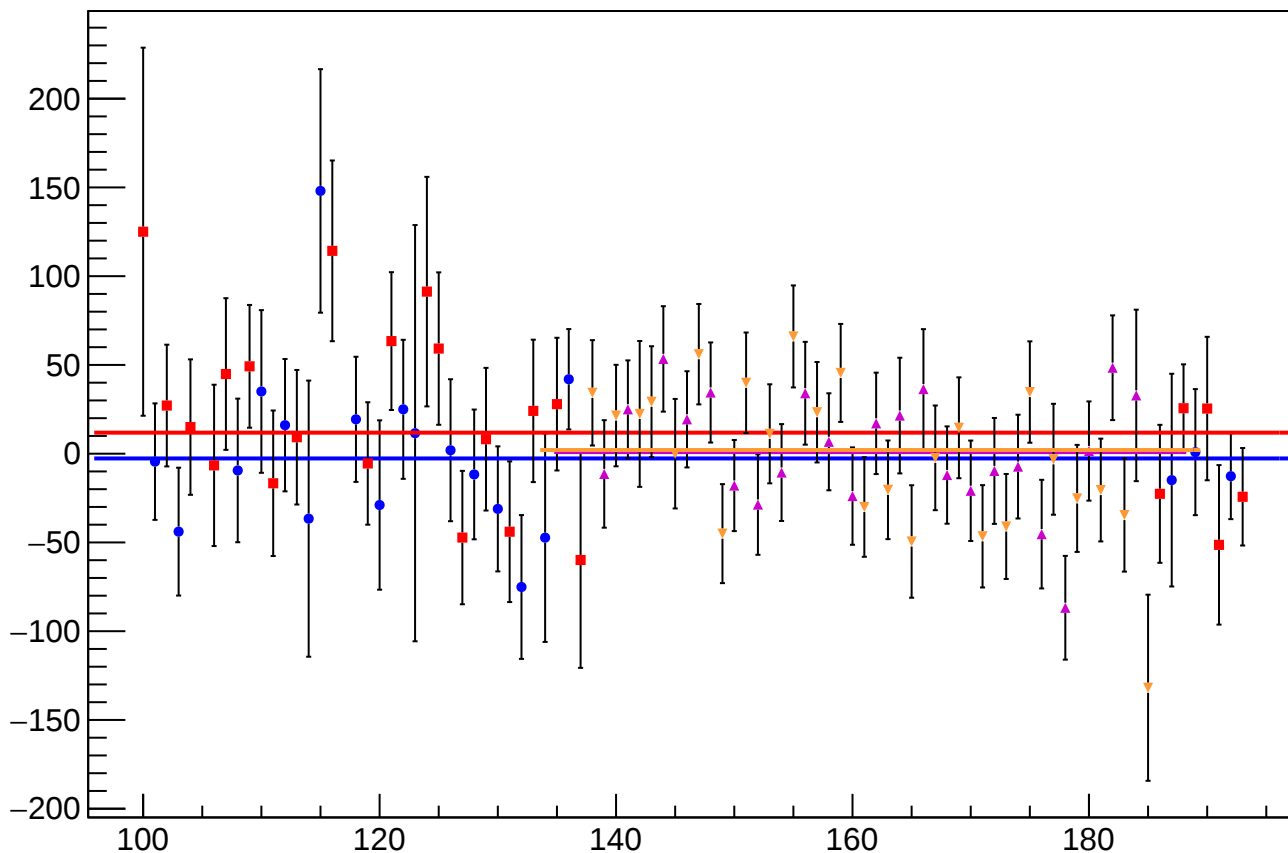
Right: 198.518 $\pm$ 0.036 χ^2 /NDF: 3740916.9/43

In: 188.993 $\pm$ 0.028 χ^2 /NDF:3053847.4/42

Out: 197.758 $\pm$ 0.028 χ^2 /NDF:4104591.4/48

All: 193.378 $\pm$ 0.020 χ^2 /NDF: 7208281.1/91

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.684 ± 8.783 χ^2/NDF : 15.7/19

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 11.852 ± 7.963 χ^2/NDF : 23.7/23

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

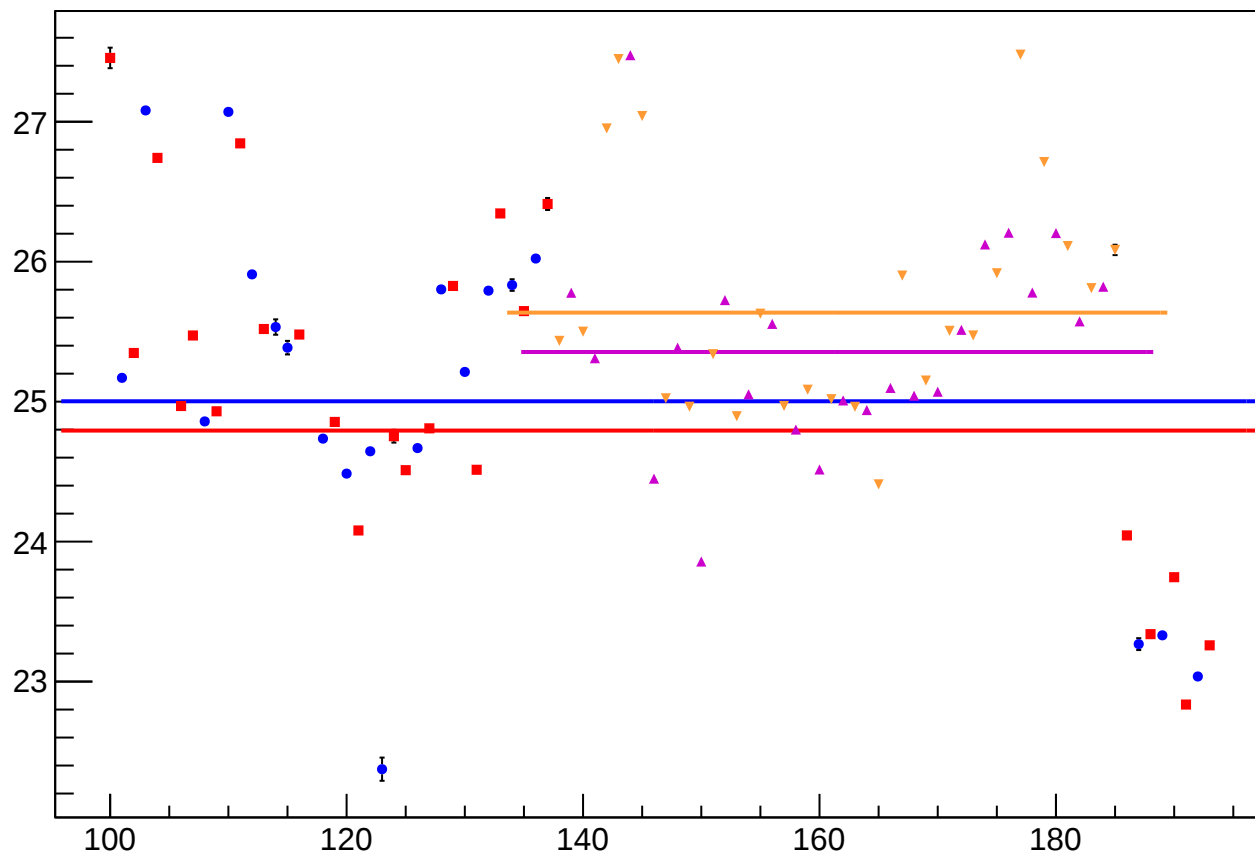
Right: 5.294 ± 5.900 χ^2/NDF : 40.9/43

In: -0.258 ± 4.993 χ^2/NDF : 42.9/42

Out: 5.579 ± 4.777 χ^2/NDF : 64.1/48

All: 2.790 ± 3.452 χ^2/NDF : 107.7/91

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.003 $\pm$ 0.006 χ^2 /NDF: 37913.9/19

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 24.793 $\pm$ 0.006 χ^2 /NDF: 40440.3/23

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

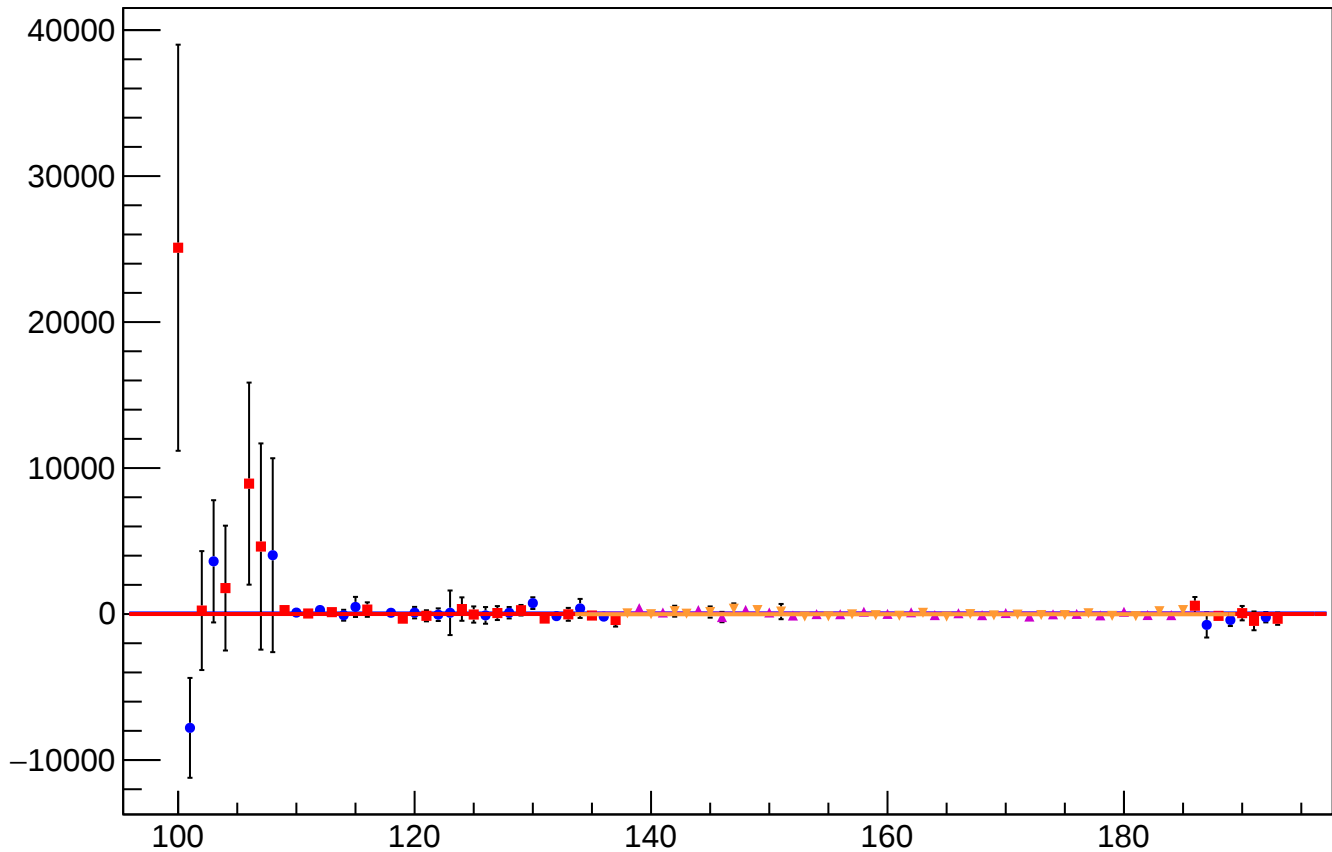
Right: 24.888 $\pm$ 0.004 χ^2 /NDF: 78977.8/43

In: 25.241 $\pm$ 0.004 χ^2 /NDF: 69854.5/42

Out: 25.333 $\pm$ 0.003 χ^2 /NDF: 89910.1/48

All: 25.289 $\pm$ 0.002 χ^2 /NDF: 160118.3/91

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 42.429+/-83.853 χ^2/NDF : 15.4/19

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: 1.002+/-74.305 χ^2/NDF : 14.3/23

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

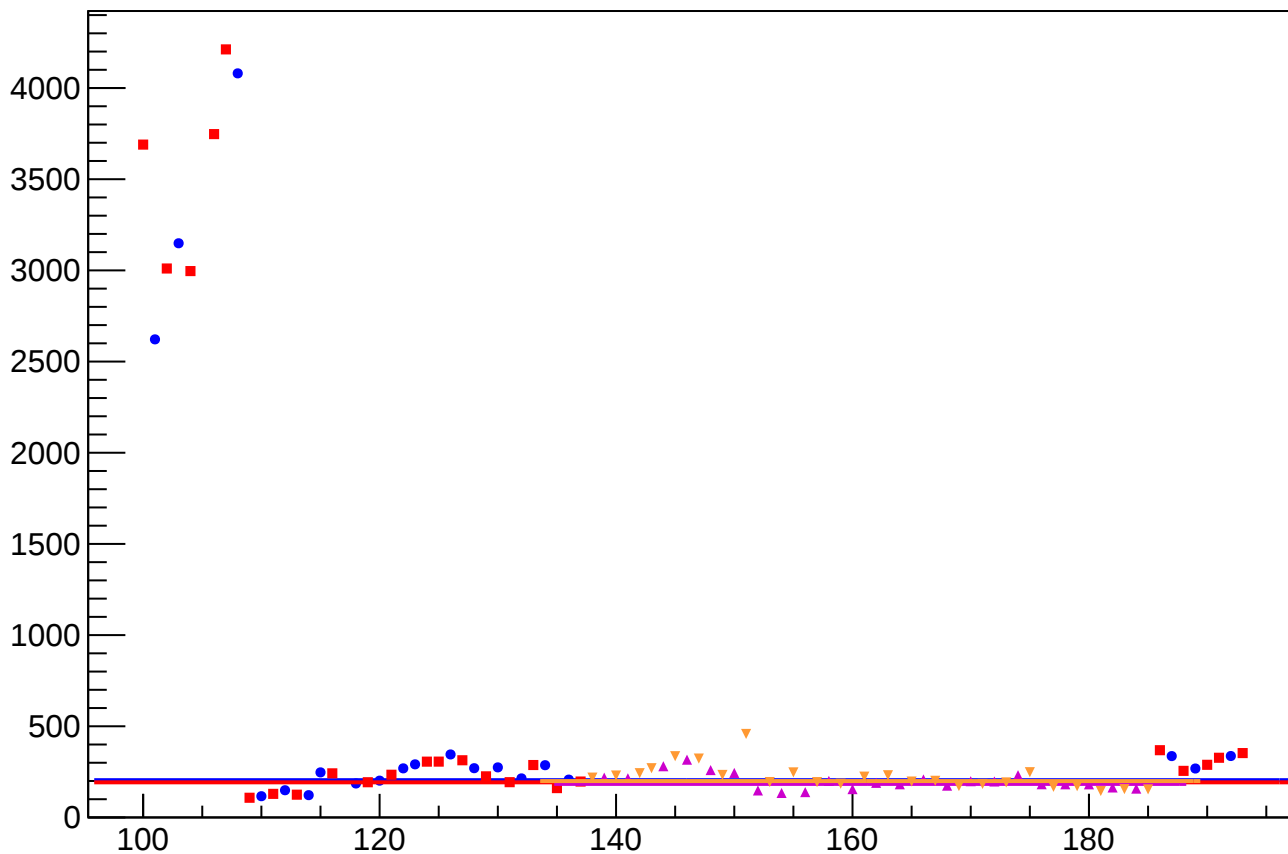
Right: 19.224+/-55.612 χ^2/NDF : 29.8/43

In: 30.428+/-40.246 χ^2/NDF : 22.9/42

Out: -8.725+/-40.447 χ^2/NDF : 22.2/48

All: 10.949+/-28.529 χ^2/NDF : 45.6/91

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 204.388 $\pm$ 0.059 χ^2 /NDF: 3991478.9/19

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 192.641 $\pm$ 0.053 χ^2 /NDF: 5056426.0/23

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

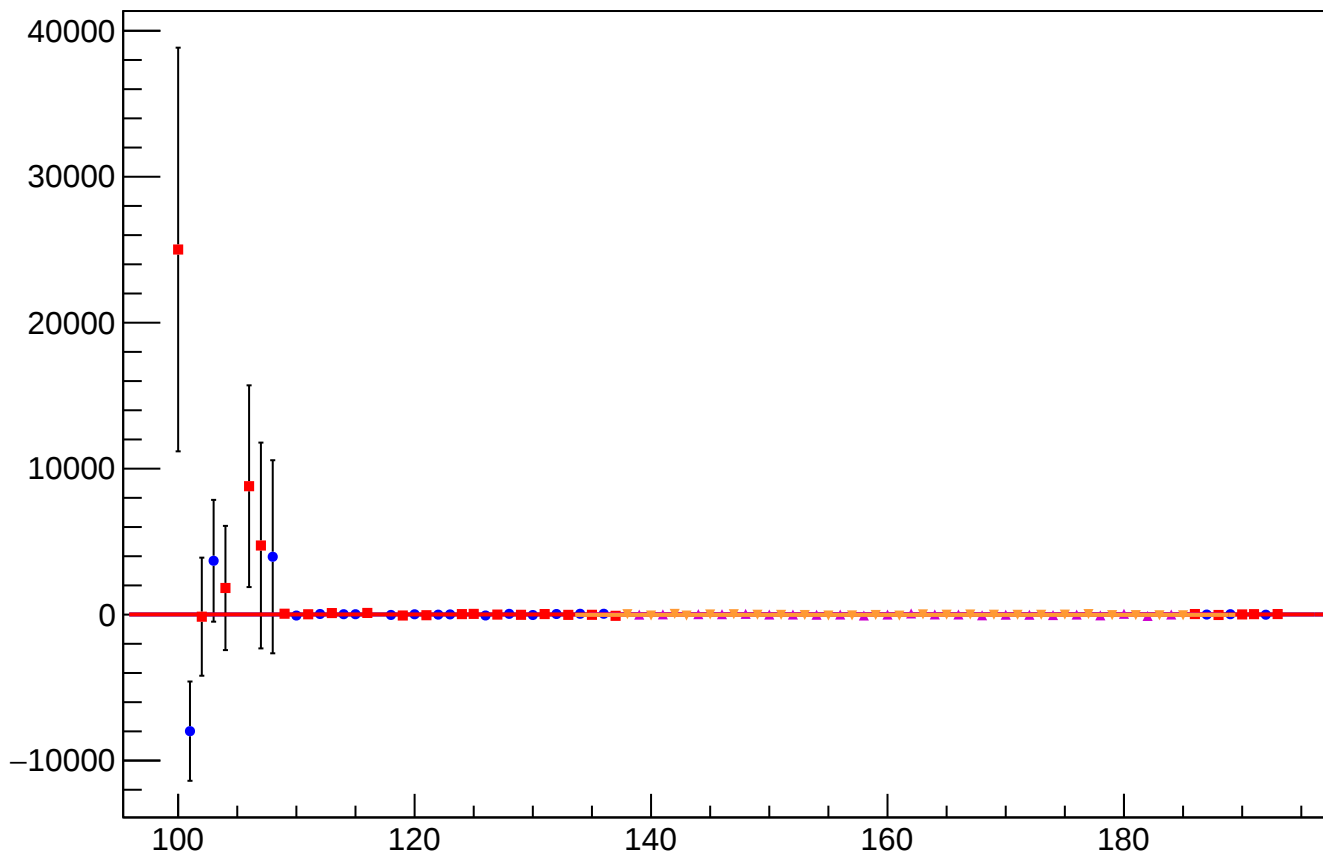
Right: 197.808 $\pm$ 0.039 χ^2 /NDF: 9069891.4/43

In: 188.721 $\pm$ 0.028 χ^2 /NDF:5505649.2/42

Out: 197.493 $\pm$ 0.029 χ^2 /NDF:6949091.8/48

All: 193.085 $\pm$ 0.020 χ^2 /NDF: 12502007.1/92

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.168+/-10.750 χ^2/NDF : 19.5/19

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 11.947+/-10.016 χ^2/NDF : 26.9/23

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

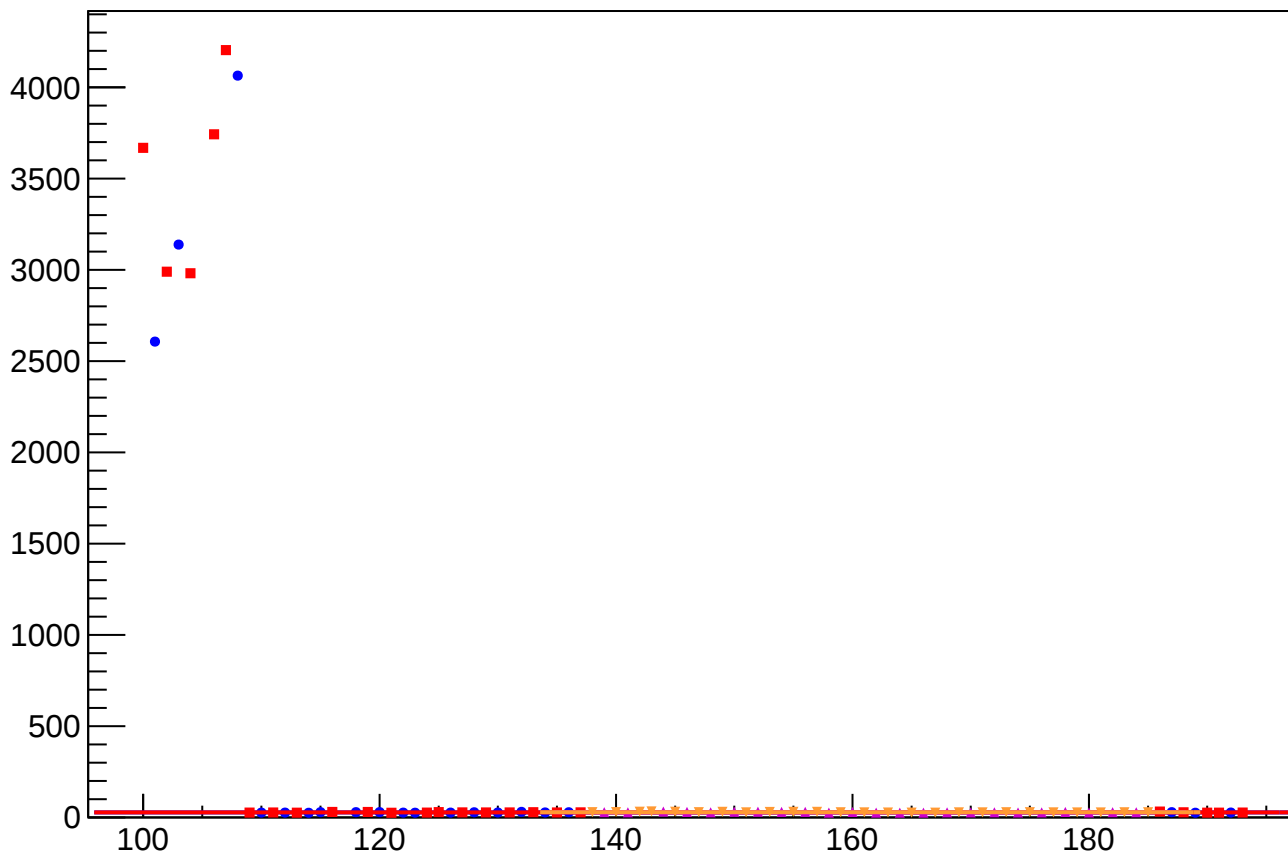
Right: 10.655+/-7.328 χ^2/NDF : 46.5/43

In: 3.400+/-5.795 χ^2/NDF :52.4/42

Out: -8.465+/-5.565 χ^2/NDF :55.3/48

All: -2.772+/-4.014 χ^2/NDF : 109.8/91

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.622 $\pm$ 0.008 χ^2 /NDF: 3034137.4/19

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.721 $\pm$ 0.007 χ^2 /NDF: 3497833.9/23

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

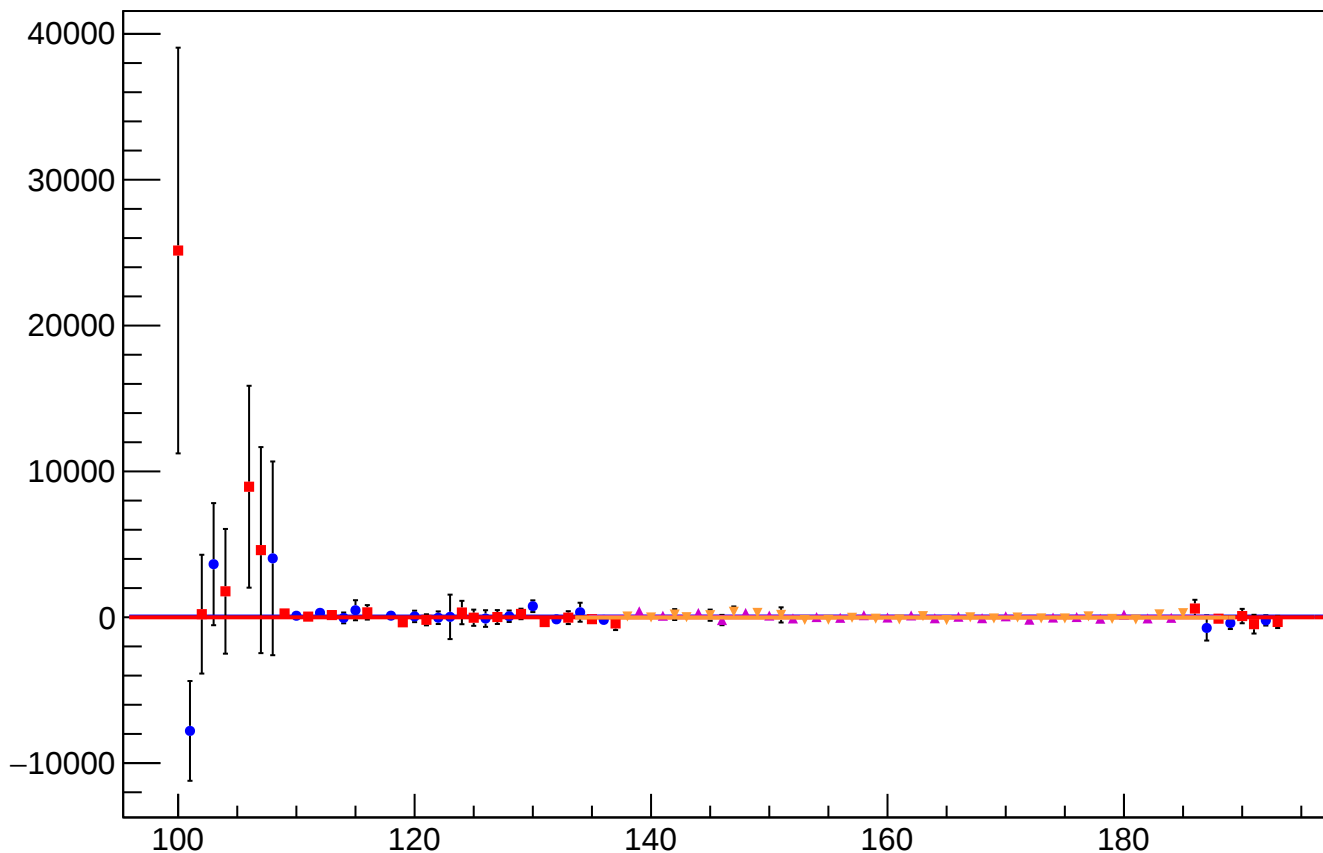
Right: 27.675 $\pm$ 0.005 χ^2 /NDF: 6532062.1/43

In: 28.367 $\pm$ 0.004 χ^2 /NDF:3172444.1/42

Out: 28.391 $\pm$ 0.004 χ^2 /NDF:3621276.6/48

All: 28.380 $\pm$ 0.003 χ^2 /NDF: 6793738.6/91

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.297+/-83.603 χ^2/NDF : 15.6/19

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -4.661+/-74.097 χ^2/NDF : 15.1/23

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

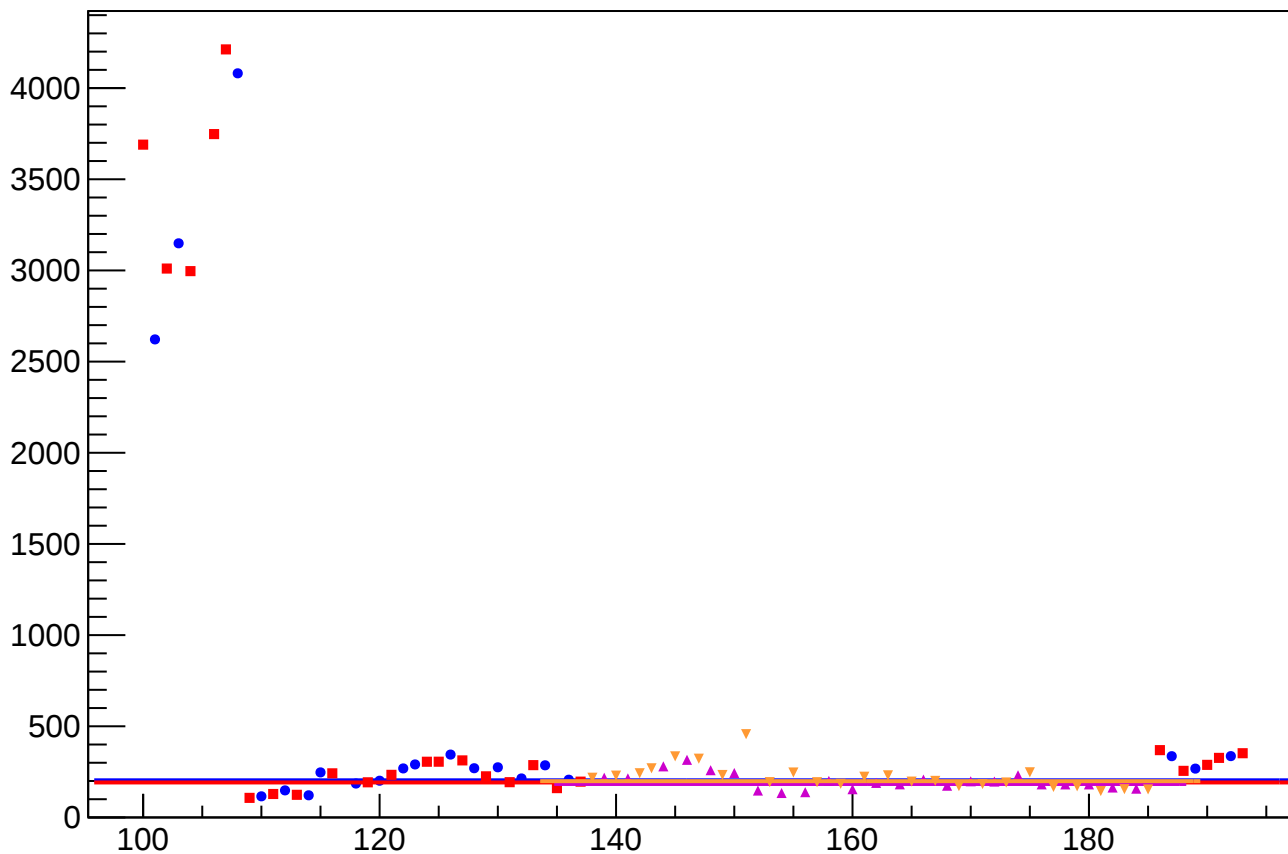
Right: 18.637+/-55.452 χ^2/NDF : 30.9/43

In: 31.921+/-40.157 χ^2/NDF : 23.4/42

Out: -12.274+/-40.350 χ^2/NDF : 23.8/48

All: 9.929+/-28.463 χ^2/NDF : 47.8/91

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 203.660 $\pm$ 0.059 χ^2 /NDF: 4006099.3/19

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 191.972 $\pm$ 0.052 χ^2 /NDF: 5074696.5/23

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

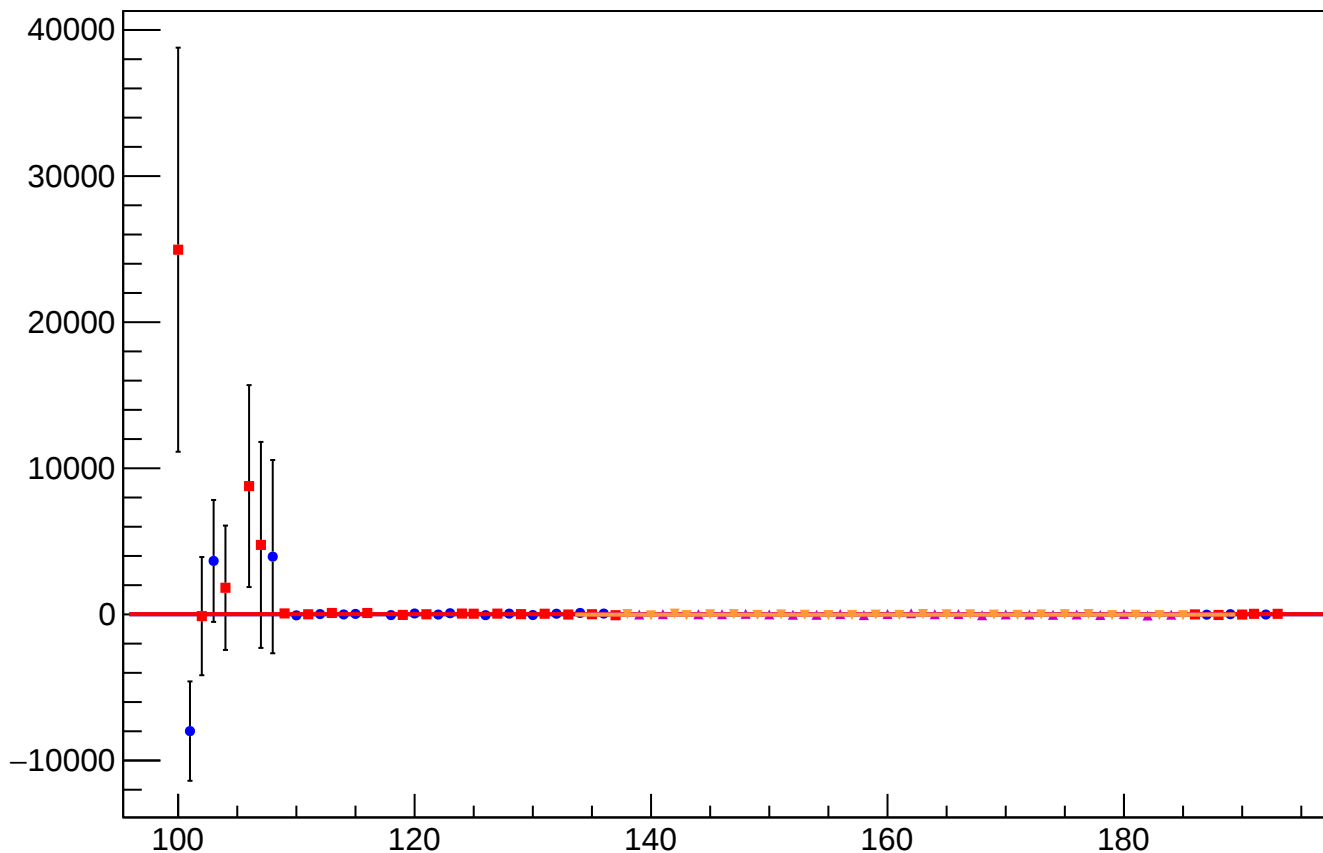
Right: 197.114 $\pm$ 0.039 χ^2 /NDF: 9102688.9/43

In: 188.280 $\pm$ 0.028 χ^2 /NDF:5516984.8/42

Out: 196.982 $\pm$ 0.029 χ^2 /NDF:6968036.1/48

All: 192.610 $\pm$ 0.020 χ^2 /NDF: 12531754.6/92

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.379+/-10.802 χ^2/NDF : 23.4/19

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 19.080+/-10.056 χ^2/NDF : 22.1/23

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

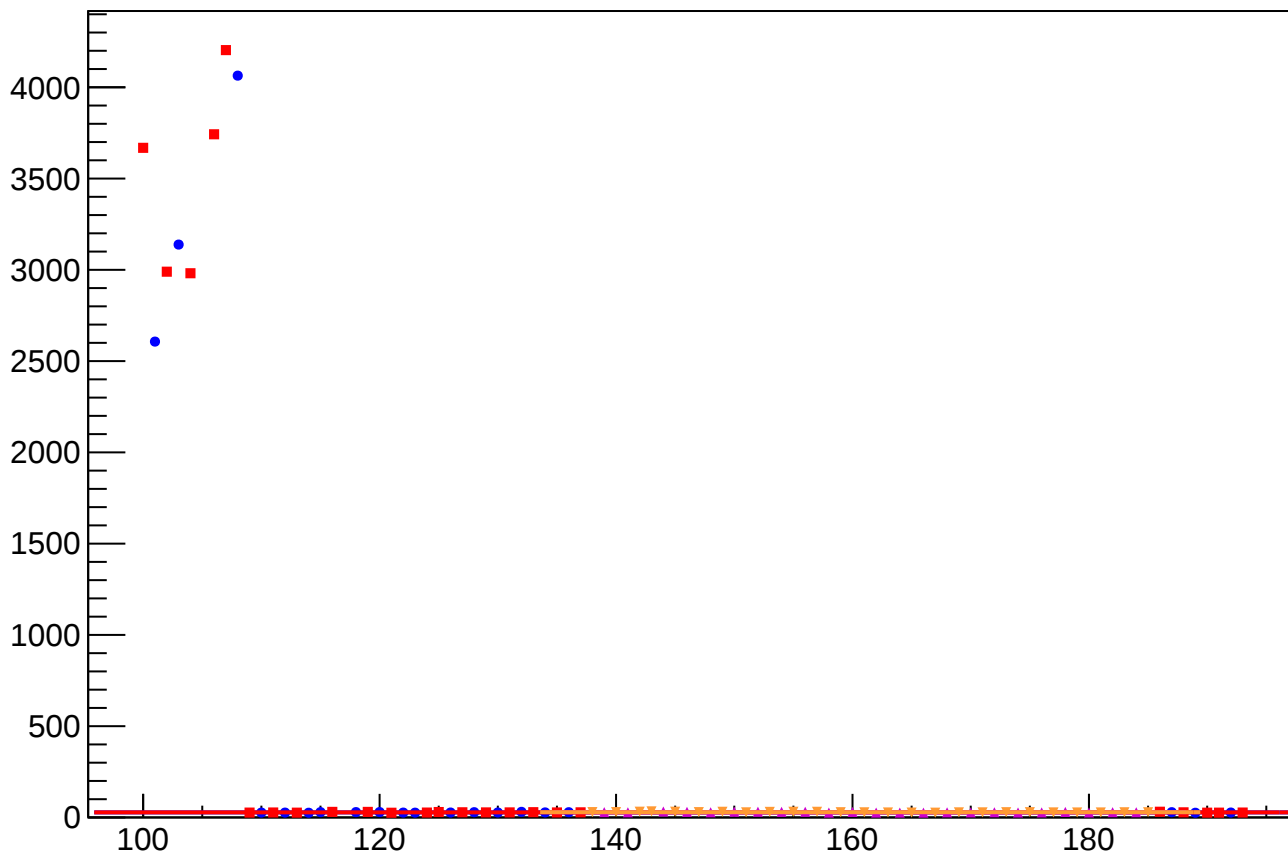
Right: 12.719+/-7.360 χ^2/NDF : 46.3/43

In: 1.063+/-5.820 χ^2/NDF :50.0/42

Out: -4.476+/-5.589 χ^2/NDF :47.5/48

All: -1.819+/-4.031 χ^2/NDF : 97.9/91

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.750+/-0.008 χ^2/NDF : 3036416.2/19

Left Out: 28.813+/-0.005 χ^2/NDF : 121973.8/24

Right Out: 27.831+/-0.007 χ^2/NDF : 3495947.3/23

Left In: 28.792+/-0.005 χ^2/NDF : 129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

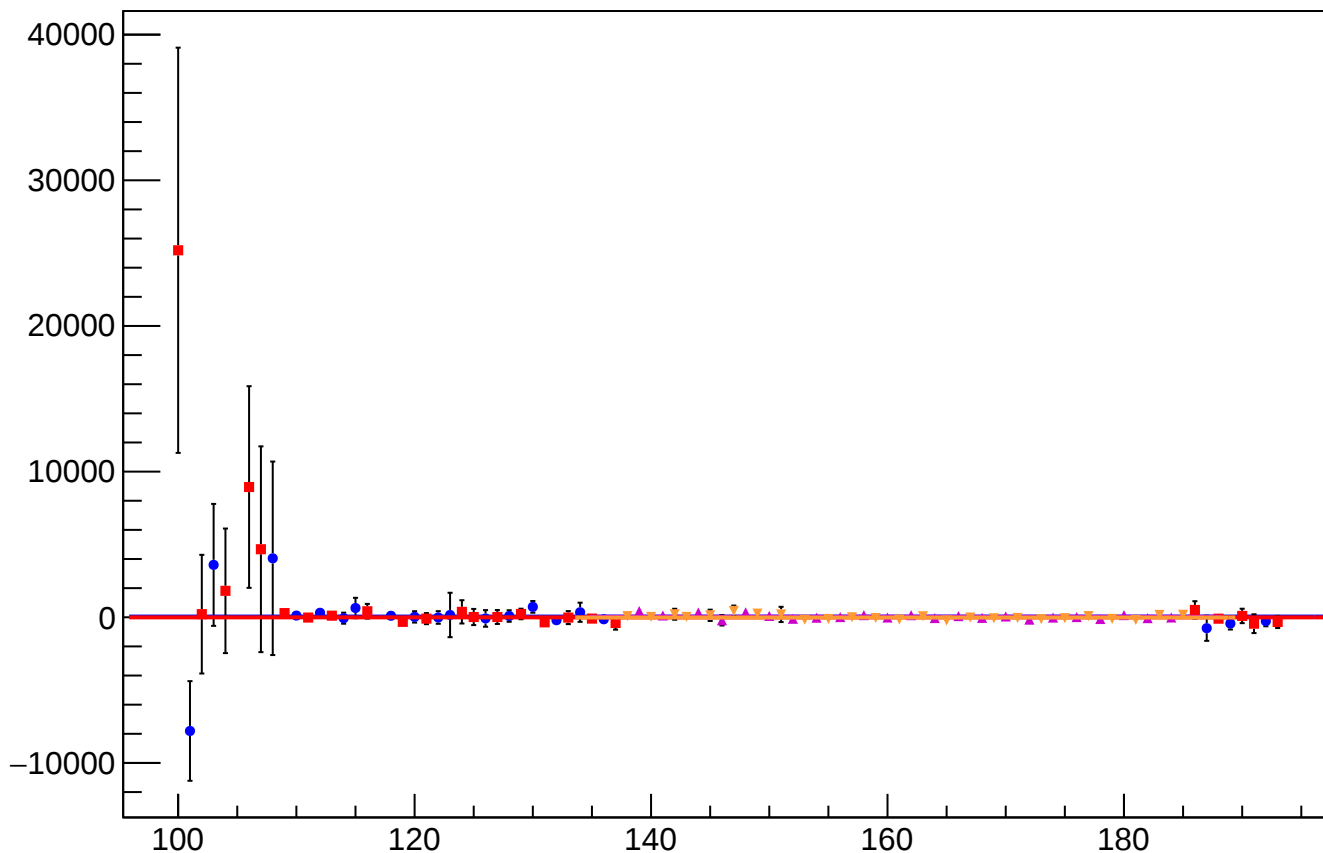
Right: 27.793+/-0.005 χ^2/NDF : 6532423.3/43

In: 28.490+/-0.004 χ^2/NDF : 3179021.8/42

Out: 28.509+/-0.004 χ^2/NDF : 3631094.2/48

All: 28.500+/-0.003 χ^2/NDF : 6810127.7/91

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.720+/-84.529 χ^2/NDF : 15.9/19

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -6.533+/-74.979 χ^2/NDF : 14.2/23

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

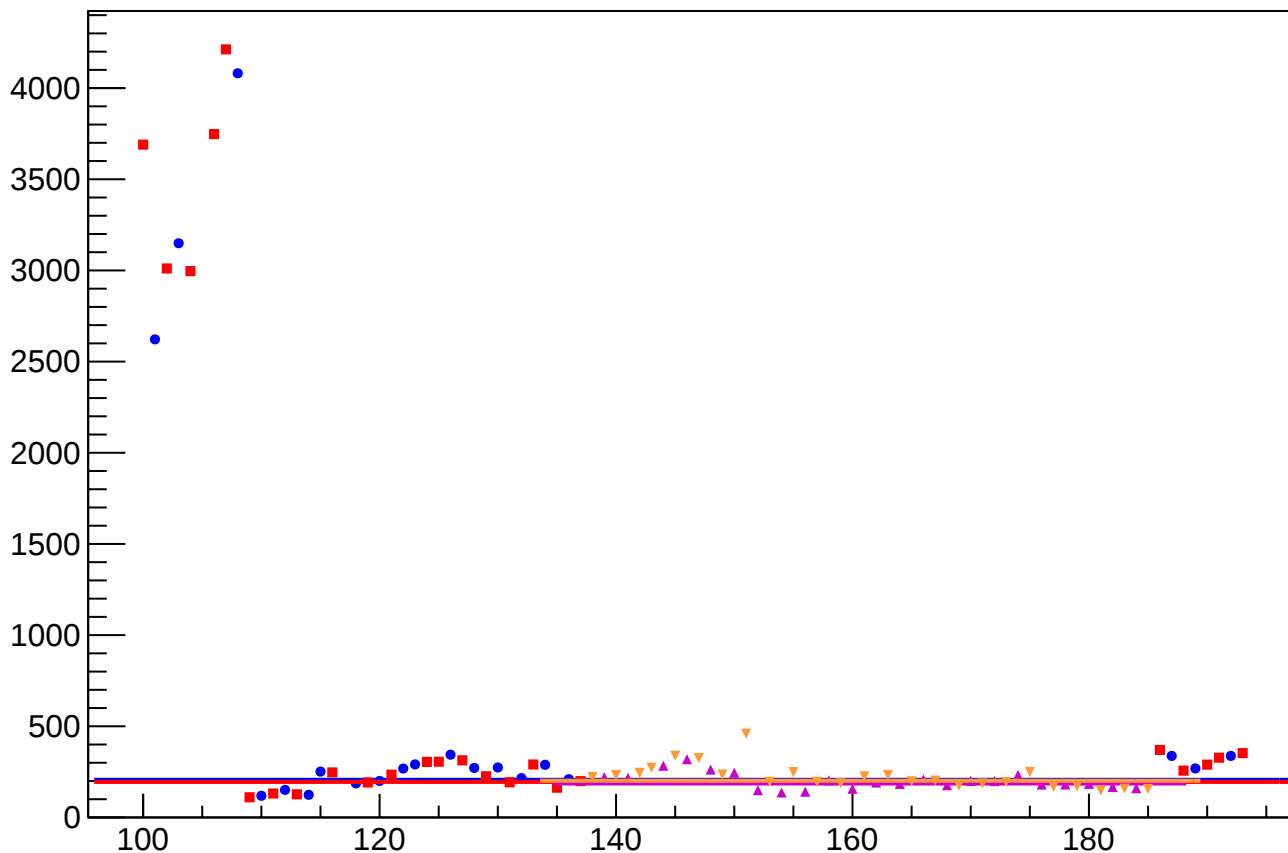
Right: 17.797+/-56.092 χ^2/NDF : 30.3/43

In: 35.228+/-40.647 χ^2/NDF : 24.1/42

Out: -12.874+/-40.834 χ^2/NDF : 22.2/48

All: 11.287+/-28.808 χ^2/NDF : 47.0/91

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 206.426 $\pm$ 0.060 χ^2 /NDF: 3944478.6/19

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 194.891 $\pm$ 0.053 χ^2 /NDF: 4992293.7/23

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

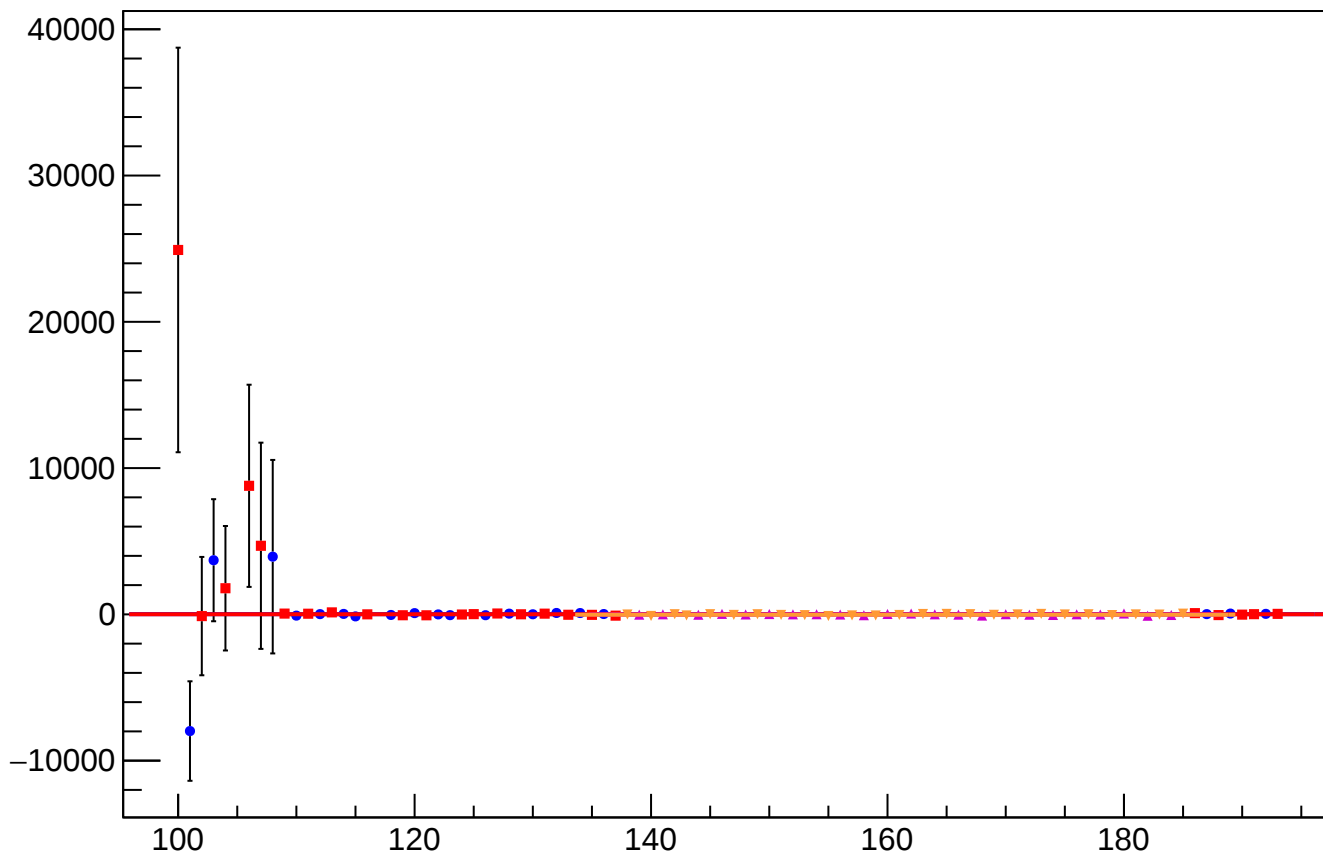
Right: 199.970 $\pm$ 0.040 χ^2 /NDF: 8957618.7/43

In: 190.805 $\pm$ 0.029 χ^2 /NDF:5424650.1/42

Out: 199.610 $\pm$ 0.029 χ^2 /NDF:6861012.2/48

All: 195.188 $\pm$ 0.020 χ^2 /NDF: 12332366.3/92

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 14.831+/-13.191 χ^2/NDF : 21.5/19

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 8.695+/-12.246 χ^2/NDF : 26.2/23

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

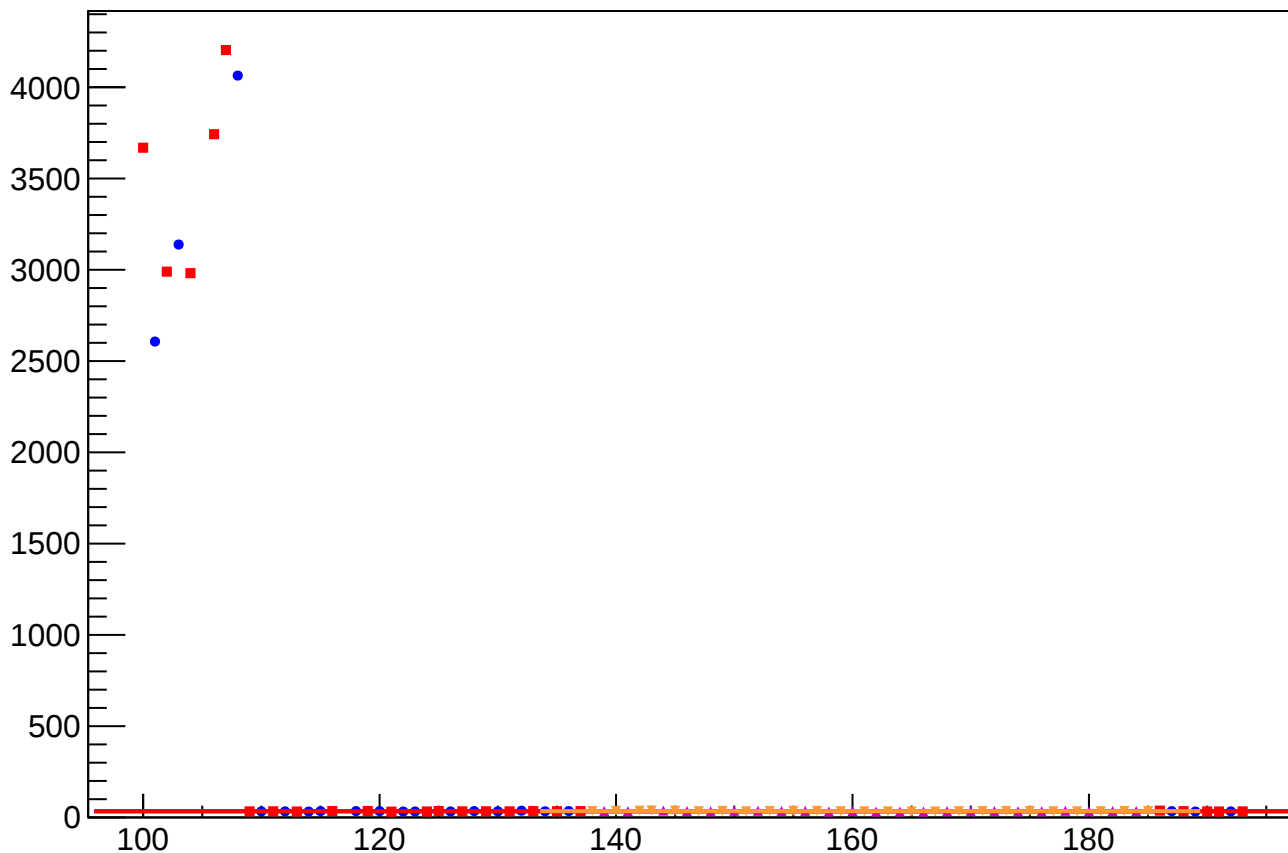
Right: 11.535+/-8.975 χ^2/NDF : 47.8/43

In: -0.084+/-7.030 χ^2/NDF : 44.5/42

Out: -13.664+/-6.735 χ^2/NDF : 56.8/48

All: -7.165+/-4.863 χ^2/NDF : 103.2/91

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.927 $\pm$ 0.009 χ^2 /NDF: 3010247.9/19

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.967 $\pm$ 0.009 χ^2 /NDF: 3460531.8/23

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

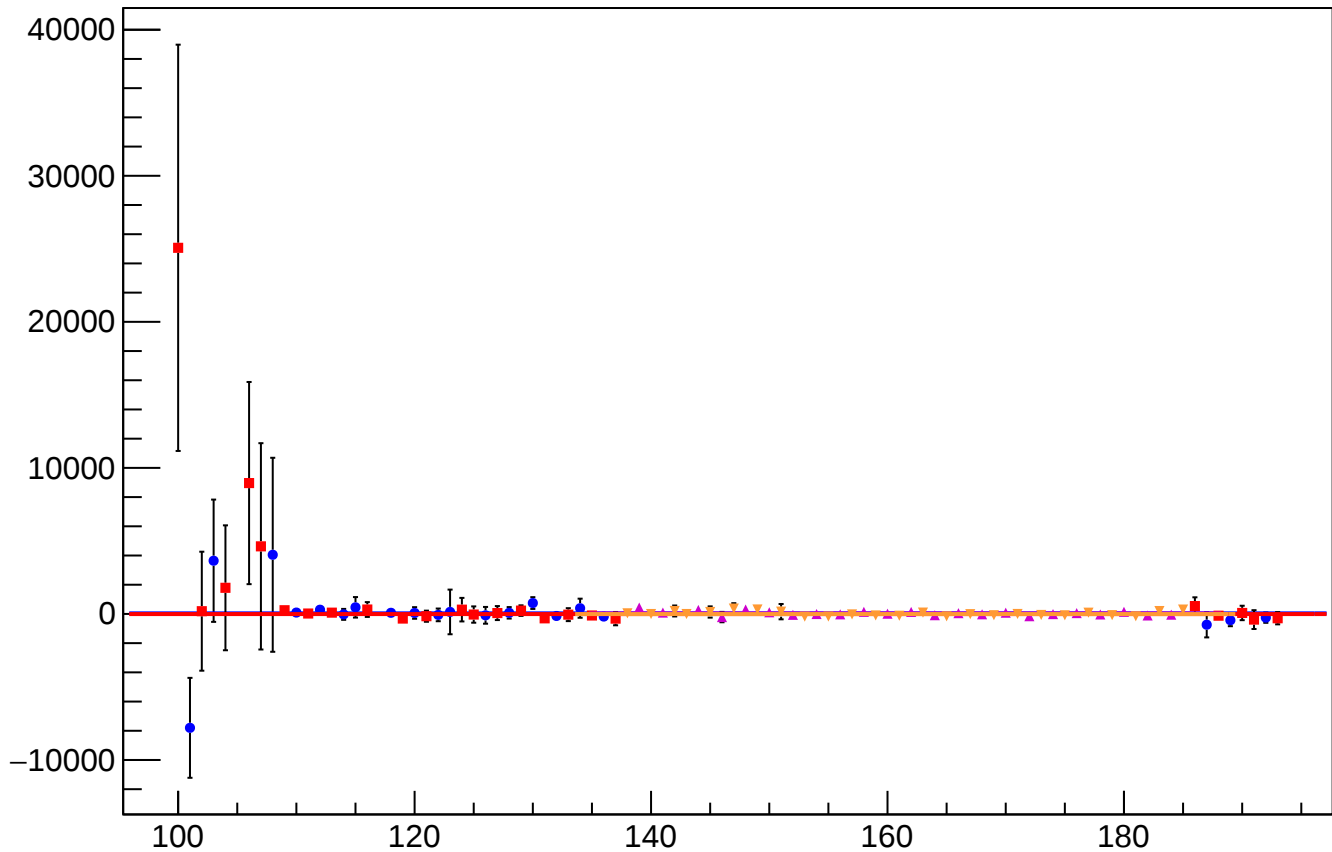
Right: 33.948 $\pm$ 0.006 χ^2 /NDF: 6470789.6/43

In: 34.470 $\pm$ 0.005 χ^2 /NDF: 3075294.1/42

Out: 34.419 $\pm$ 0.005 χ^2 /NDF: 3522375.0/48

All: 34.443 $\pm$ 0.003 χ^2 /NDF: 6597724.1/91

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 38.540+/-84.133 χ^2/NDF : 15.6/19

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -9.597+/-74.549 χ^2/NDF : 13.0/23

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

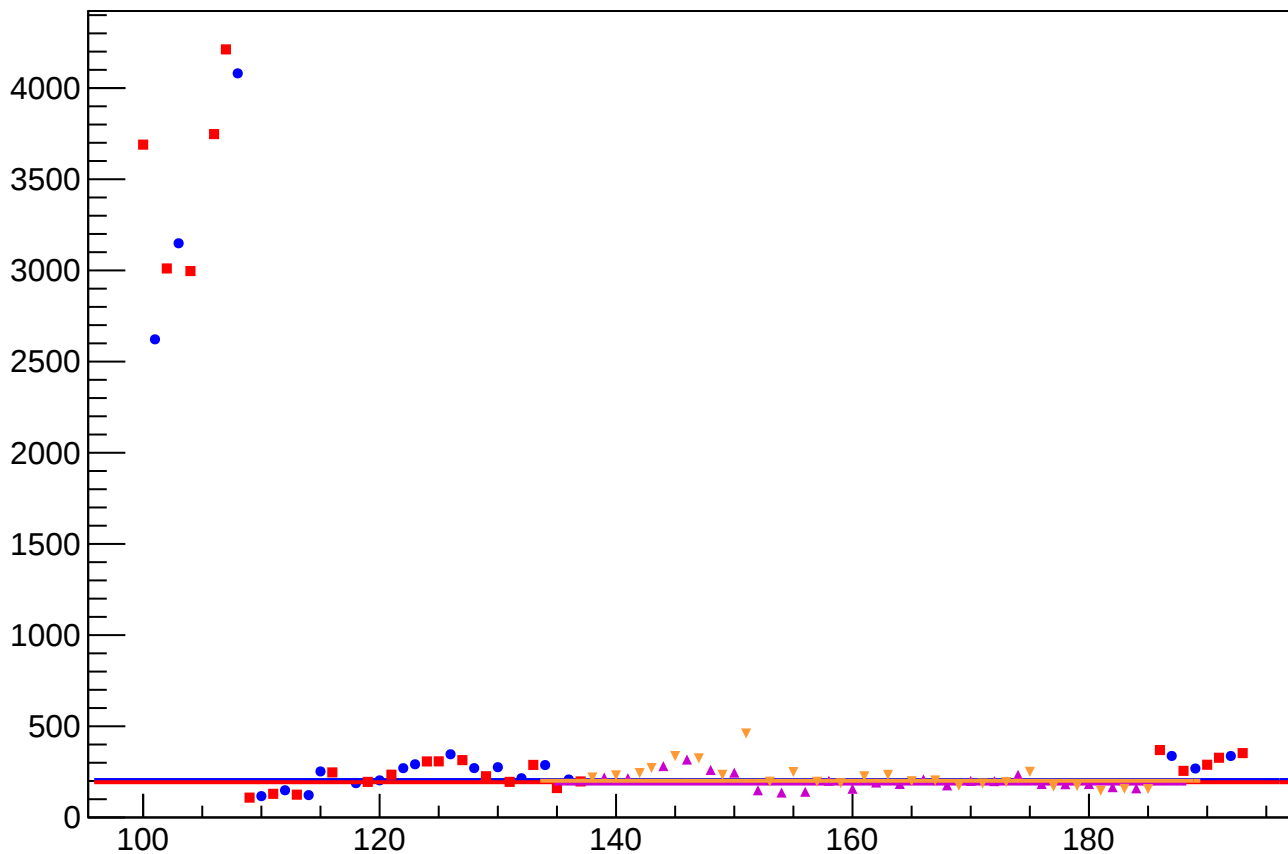
Right: 11.575+/-55.797 χ^2/NDF : 28.8/43

In: 35.153+/-40.561 χ^2/NDF : 23.0/42

Out: -9.119+/-40.721 χ^2/NDF : 21.6/48

All: 13.104+/-28.737 χ^2/NDF : 45.2/91

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 205.105 $\pm$ 0.059 χ^2 /NDF: 3989373.5/19

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 193.331 $\pm$ 0.053 χ^2 /NDF: 5053118.4/23

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

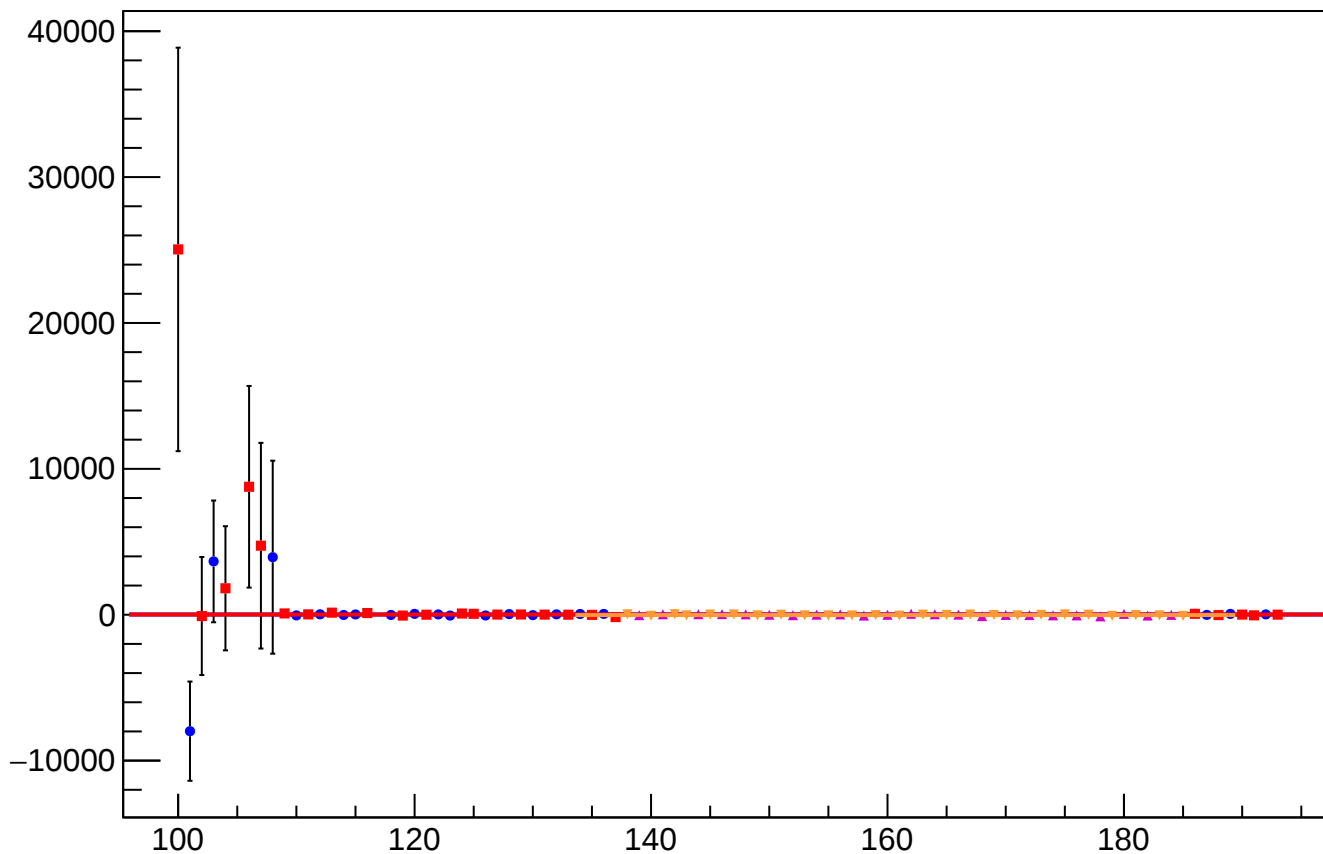
Right: 198.510 $\pm$ 0.039 χ^2 /NDF: 9064434.0/43

In: 190.328 $\pm$ 0.029 χ^2 /NDF:5451525.3/42

Out: 198.920 $\pm$ 0.029 χ^2 /NDF:6920271.3/48

All: 194.607 $\pm$ 0.020 χ^2 /NDF: 12416485.3/92

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 16.844+/-11.969 χ^2/NDF : 15.7/19

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 13.846+/-11.129 χ^2/NDF : 31.3/23

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

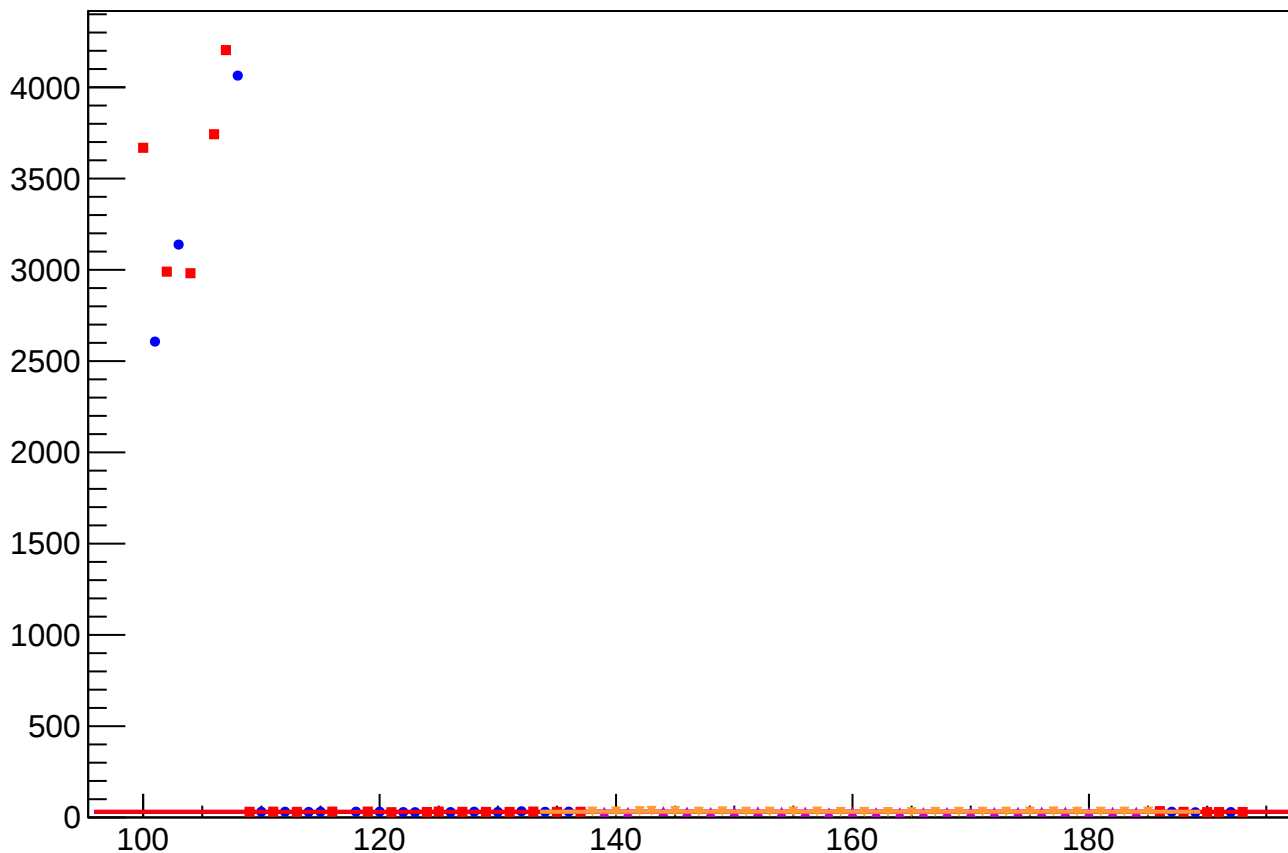
Right: 15.236+/-8.150 χ^2/NDF : 47.0/43

In: 0.543+/-6.385 χ^2/NDF : 56.6/42

Out: -11.746+/-6.127 χ^2/NDF : 57.7/48

All: -5.855+/-4.421 χ^2/NDF : 116.2/91

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.774 $\pm$ 0.008 χ^2 /NDF: 3023256.9/19

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF: 82437.2/24

Right Out: 30.834 $\pm$ 0.008 χ^2 /NDF: 3472775.5/23

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

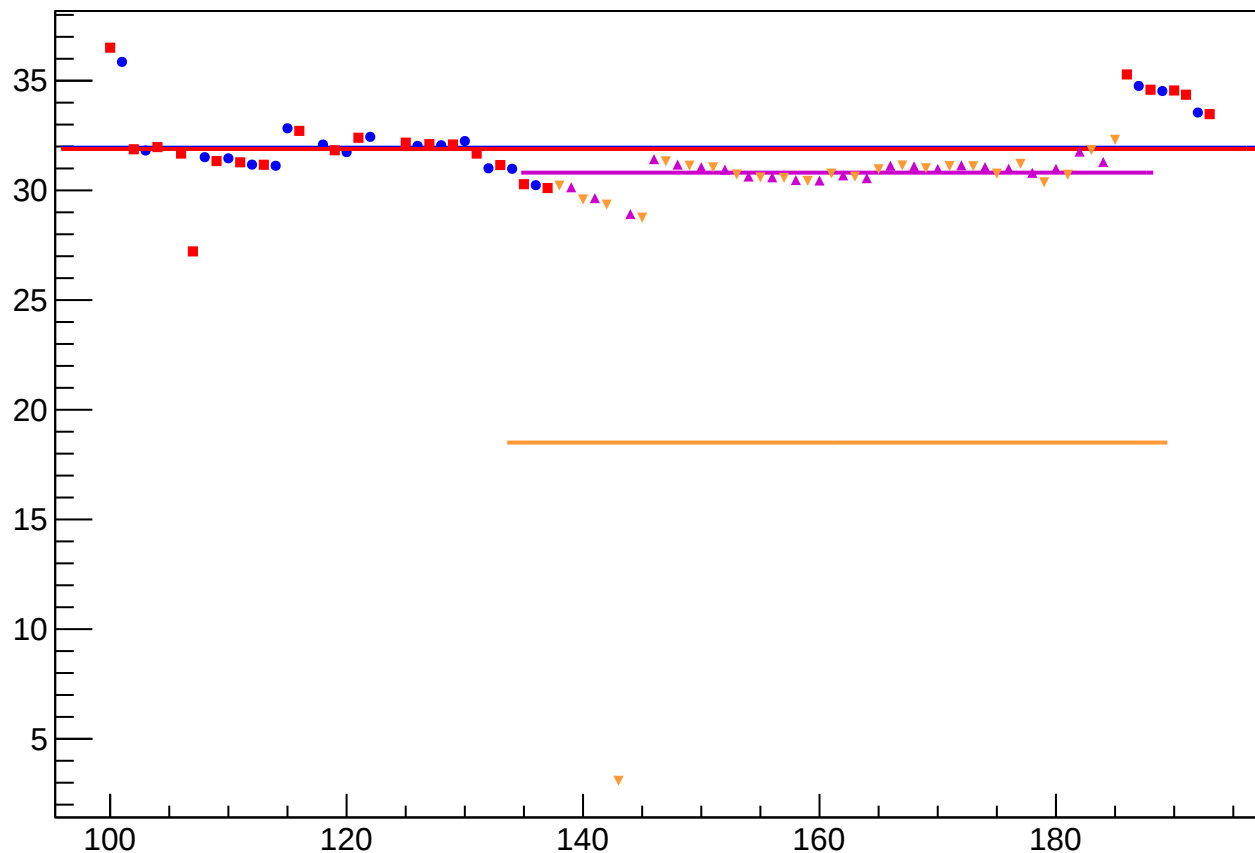
Right: 30.806 $\pm$ 0.006 χ^2 /NDF: 6496059.6/43

In: 31.282 $\pm$ 0.005 χ^2 /NDF: 3116282.3/42

Out: 31.285 $\pm$ 0.004 χ^2 /NDF: 3559933.9/48

All: 31.284 $\pm$ 0.003 χ^2 /NDF: 6676216.4/91

yield_usl_mean vs Slug, Sign Corrected



Left: 22.806 $\pm$ 0.000 χ^2/NDF : 1203928236724.3/41

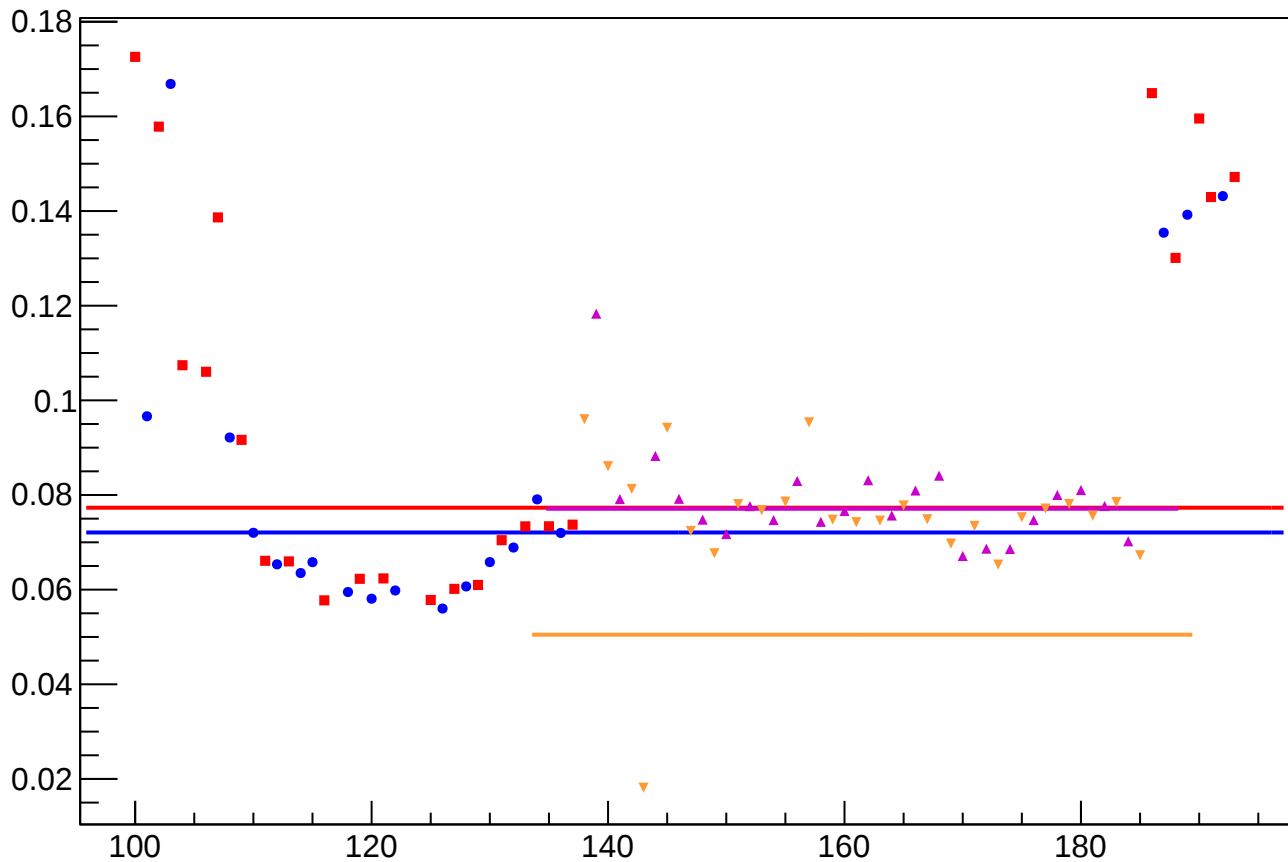
Right: 31.917 $\pm$ 0.000 χ^2/NDF : 3610967010.6/41

In: 31.185 $\pm$ 0.000 χ^2/NDF : 3846734094.2/41

Out: 21.300 $\pm$ 0.000 χ^2/NDF : 1127843250302.4/47

All: 25.140 $\pm$ 0.000 χ^2/NDF : 1369663465347

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.072 $\pm$ 0.000 χ^2 /NDF: 1369908.1/18

Left Out: 0.050 $\pm$ 0.000 χ^2 /NDF:8543648.6/24

Right Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 2047640.4/22

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

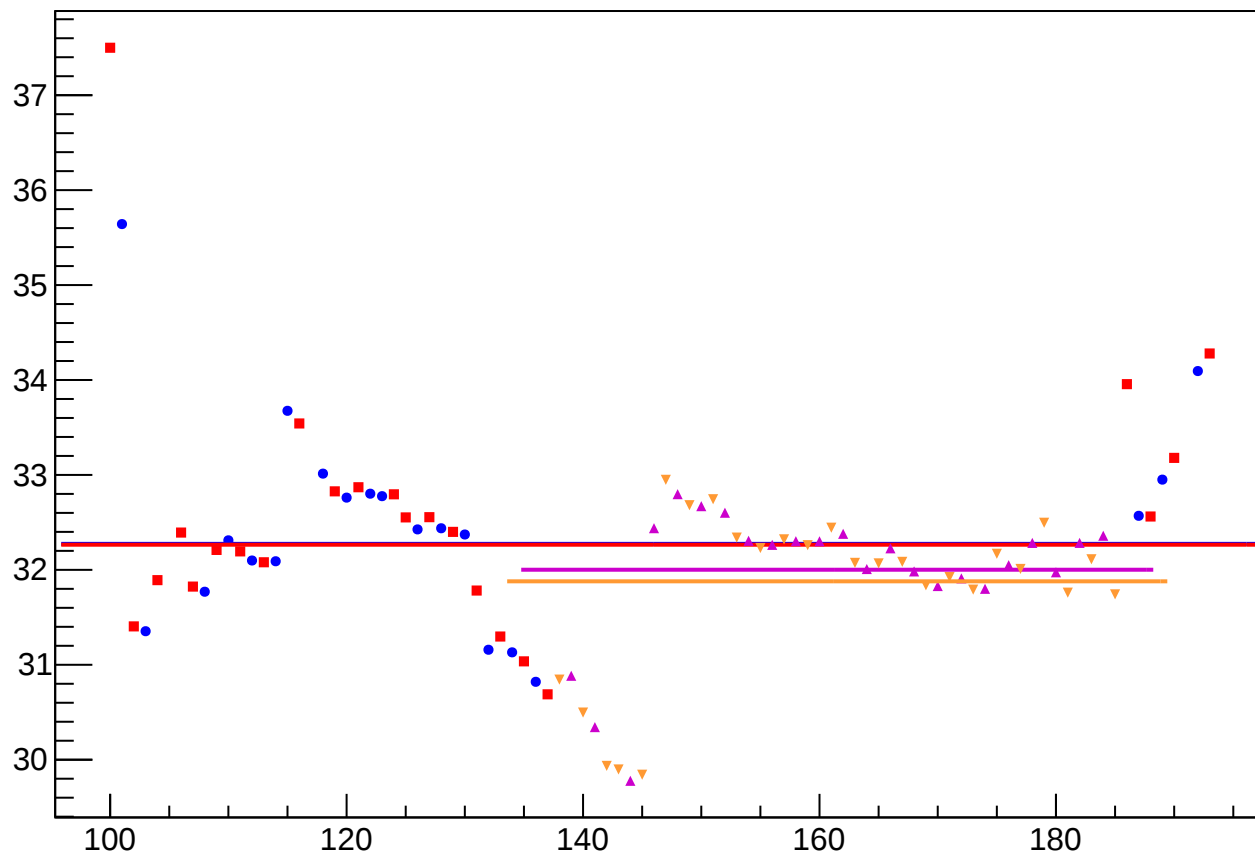
Right: 0.075 $\pm$ 0.000 χ^2 /NDF: 3453485.1/41

In: 0.075 $\pm$ 0.000 χ^2 /NDF:1740042.2/41

Out: 0.056 $\pm$ 0.000 χ^2 /NDF:12082640.5/47

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 15646756.9/89

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.274+/-0.000 χ^2/NDF : 1103202748.0/19

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.265+/-0.000 χ^2/NDF : 588902248.9/22

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

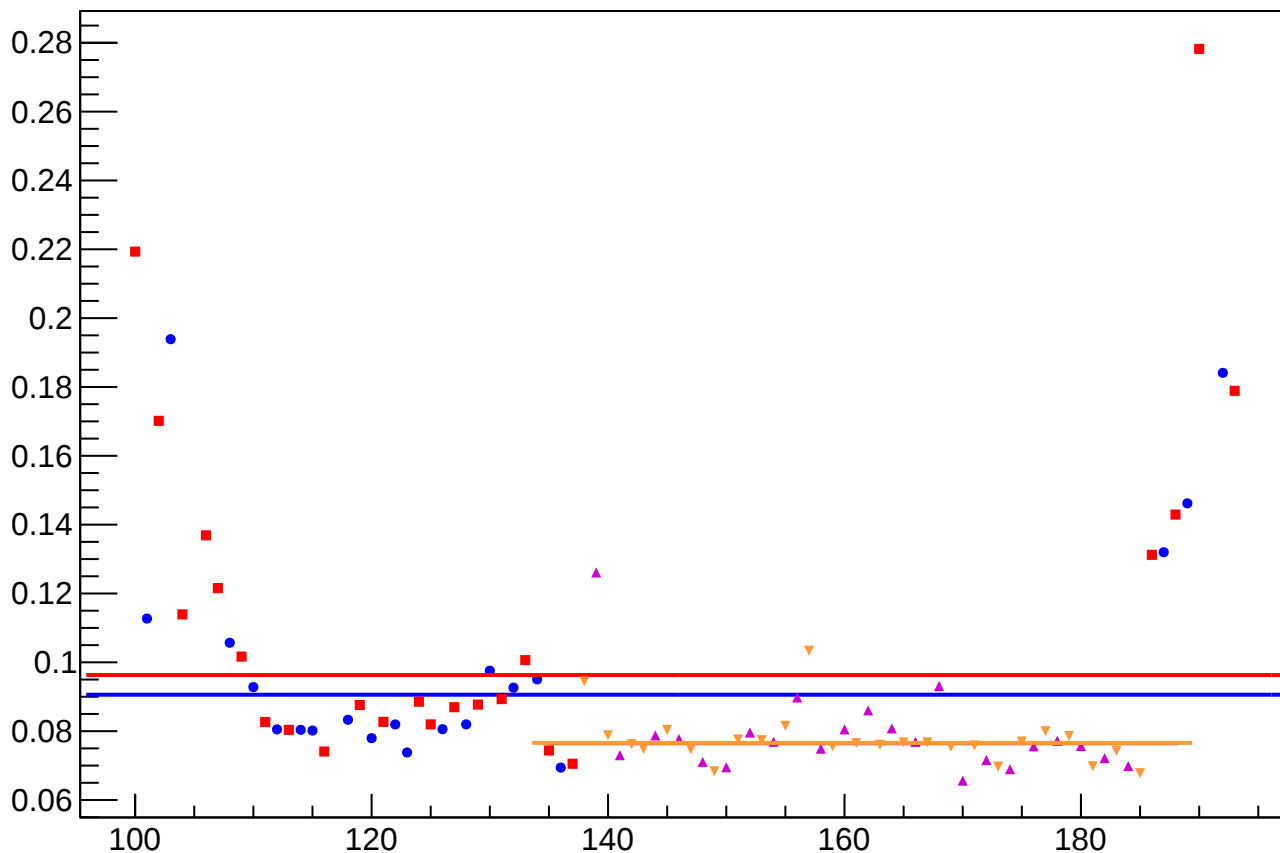
Right: 32.269+/-0.000 χ^2/NDF : 1692137788.3/42

In: 32.065+/-0.000 χ^2/NDF : 2561890306.5/42

Out: 31.967+/-0.000 χ^2/NDF : 2662927775.0/47

All: 32.015+/-0.000 χ^2/NDF : 5242251073.6/9

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 1186540.1/19

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.096+/-0.000 χ^2/NDF : 1419680.2/22

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

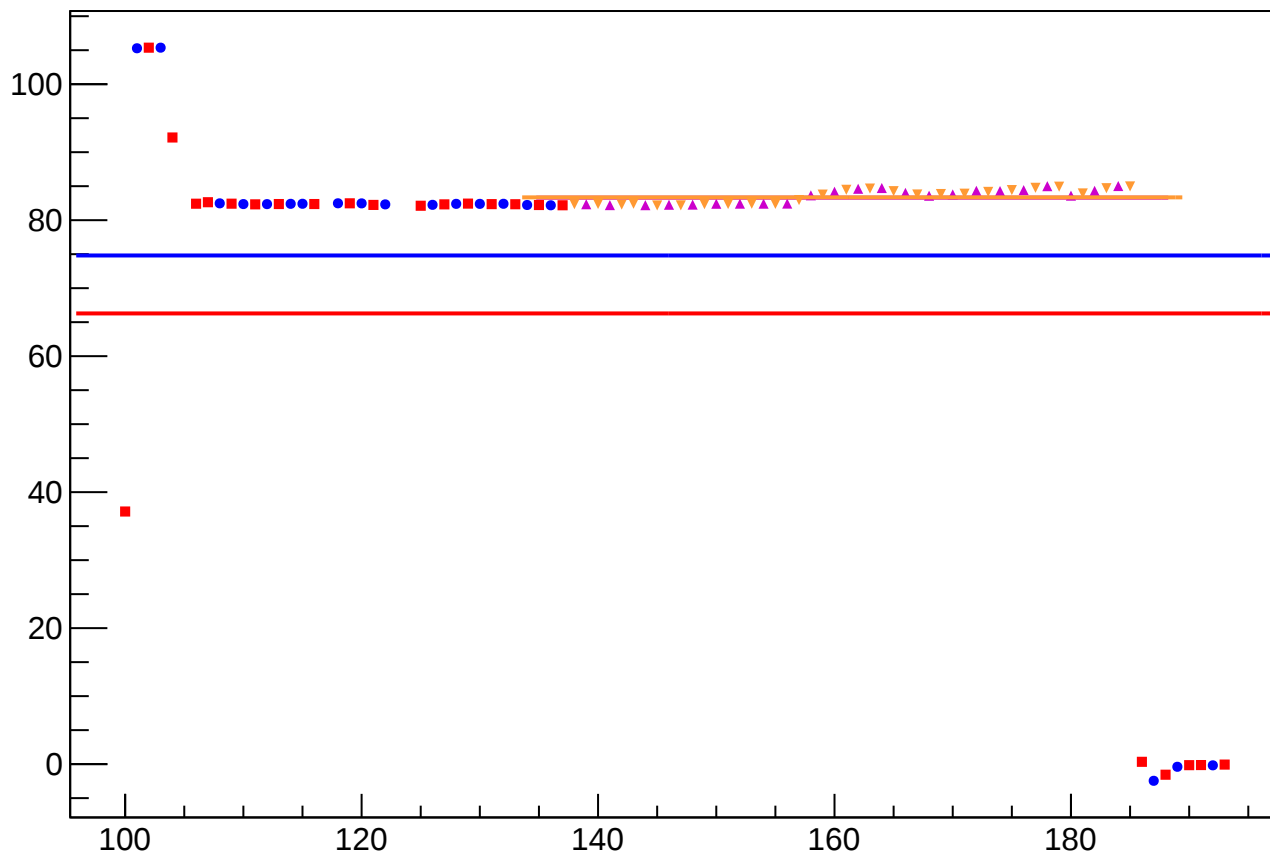
Right: 0.093+/-0.000 χ^2/NDF : 2633729.6/42

In: 0.080+/-0.000 χ^2/NDF : 1873946.8/42

Out: 0.081+/-0.000 χ^2/NDF : 2140019.4/47

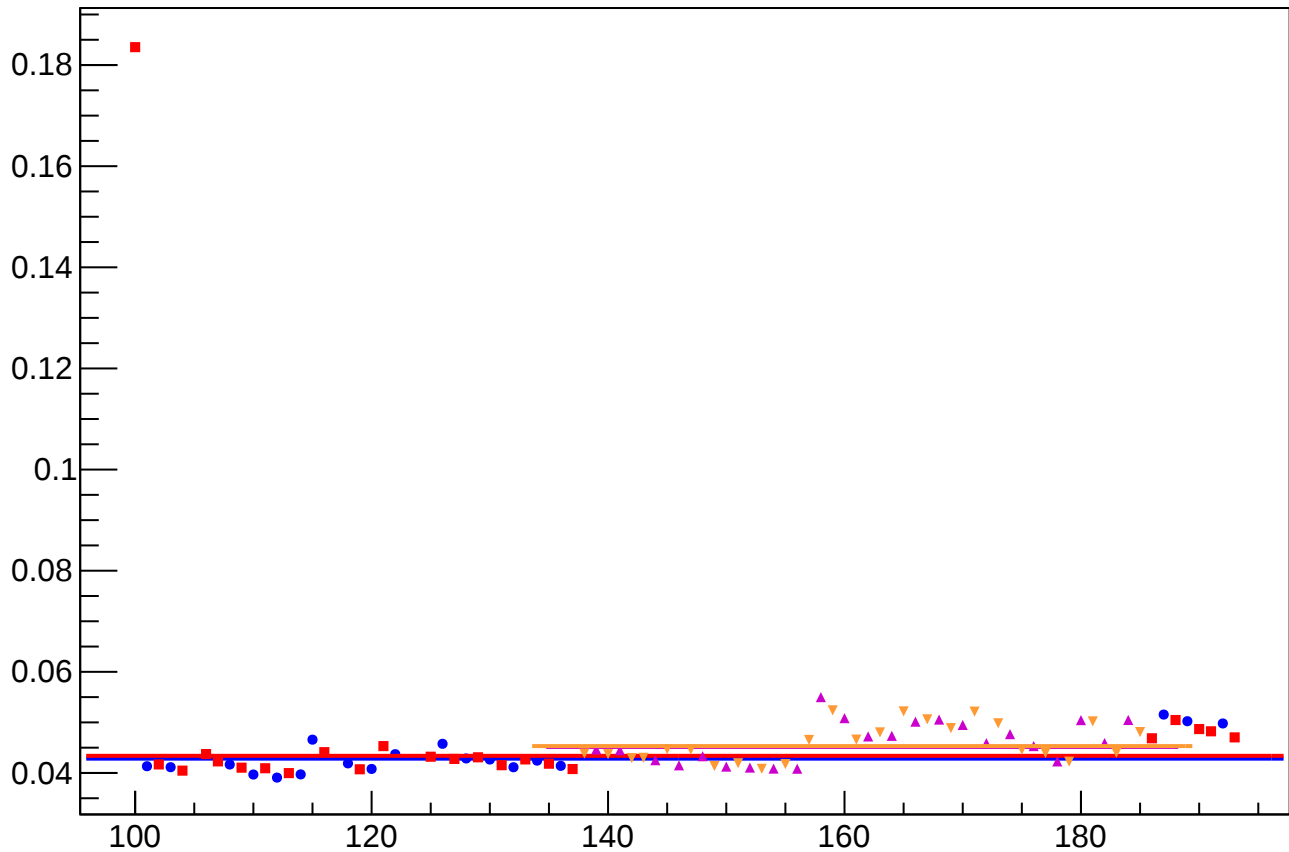
All: 0.080+/-0.000 χ^2/NDF : 4020173.7/90

yield_dsl_mean vs Slug, Sign Corrected



Right In: 74.809+/-0.000	χ^2/NDF : 4100685596044.2/18	Left: 83.332+/-0.000	χ^2/NDF : 17572666767.1/47
Left Out: 83.355+/-0.000	χ^2/NDF : 9142393022.8/24	Right: 70.255+/-0.000	χ^2/NDF : 10640022536382.8/47
Right Out: 66.285+/-0.000	χ^2/NDF : 6370834559005.0/22	In: 80.394+/-0.000	χ^2/NDF : 4315174257974.6/41
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 77.142+/-0.000	χ^2/NDF : 7302691687288.3/47
		All: 78.705+/-0.000	χ^2/NDF : 1168739907407.1/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.043+/-0.000 χ^2/NDF : 90540.5/18

Left Out: 0.045+/-0.000 χ^2/NDF : 211358.2/24

Right Out: 0.043+/-0.000 χ^2/NDF : 172525.7/22

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 454494.8/47

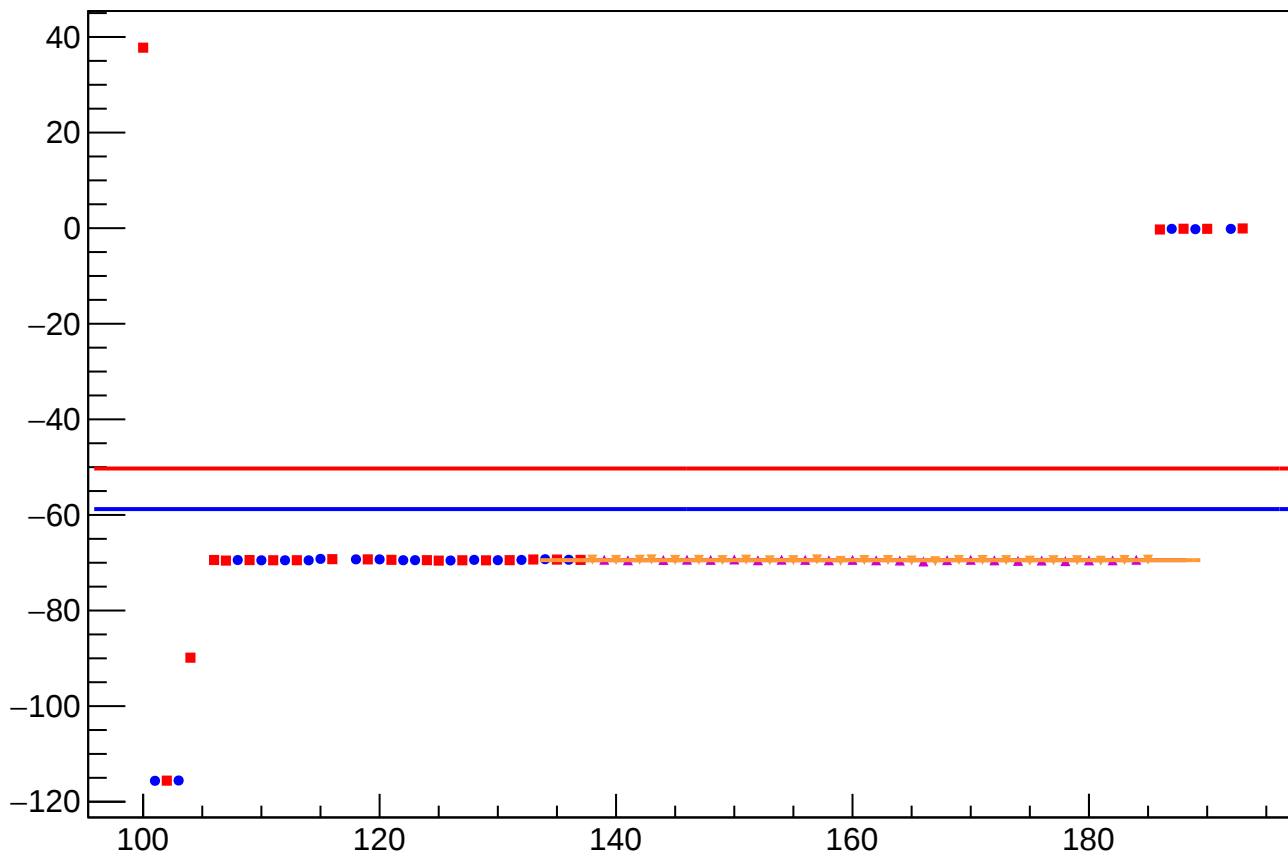
Right: 0.043+/-0.000 χ^2/NDF : 264508.7/41

In: 0.044+/-0.000 χ^2/NDF : 363869.4/41

Out: 0.045+/-0.000 χ^2/NDF : 407333.7/47

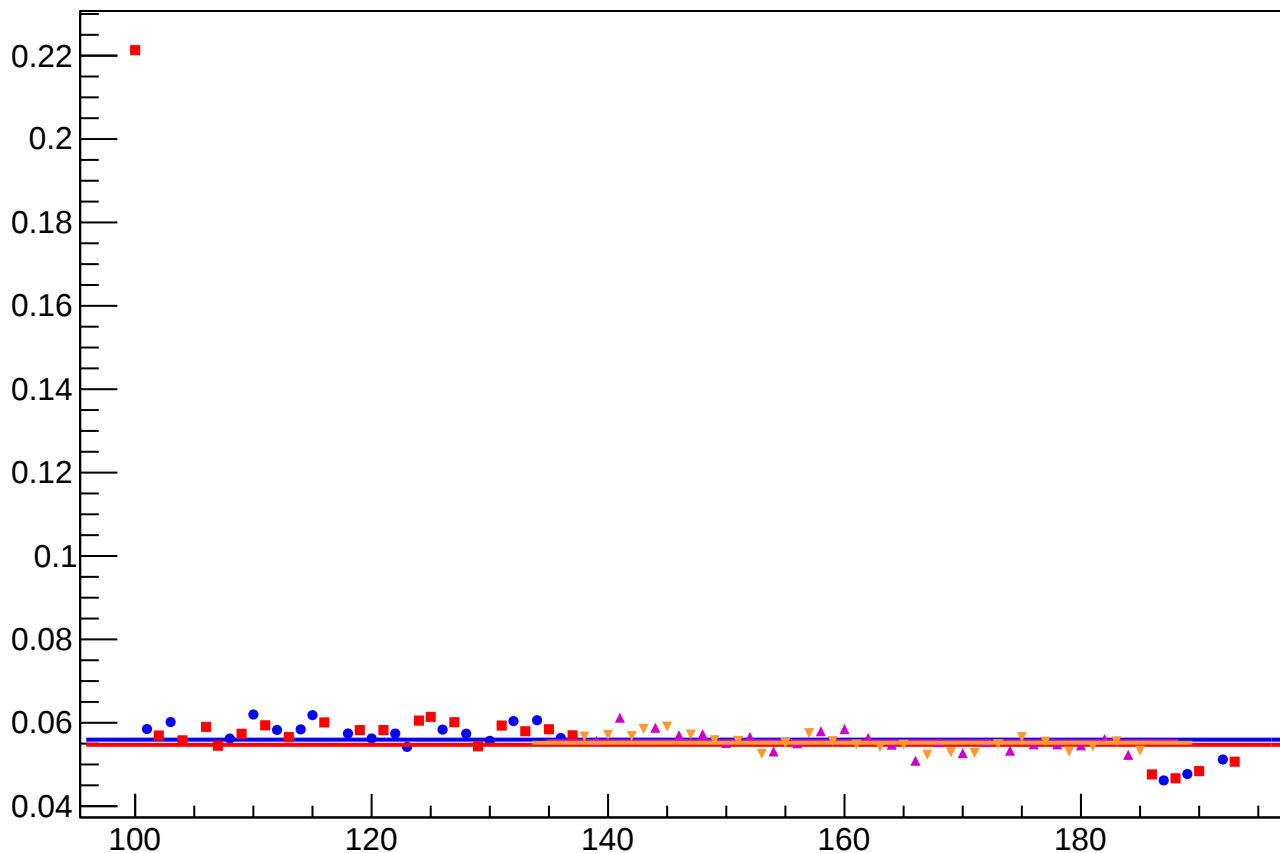
All: 0.044+/-0.000 χ^2/NDF : 772117.1/89

yield_dsr_mean vs Slug, Sign Corrected



Right In: -58.775+/-0.000	χ^2/NDF : 3255599874224.8/19	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -54.128+/-0.000	χ^2/NDF : 7411236319820.9/47
Right Out: -50.283+/-0.000	χ^2/NDF : 4056778280160.1/22	In: -66.094+/-0.000	χ^2/NDF : 3451508628956.6/42
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -62.906+/-0.000	χ^2/NDF : 4789761646126.0/47
		All: -64.415+/-0.000	χ^2/NDF : 828386049282.0/19

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.056+/-0.000 χ^2/NDF : 82095.4/19

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.055+/-0.000 χ^2/NDF : 217415.9/22

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

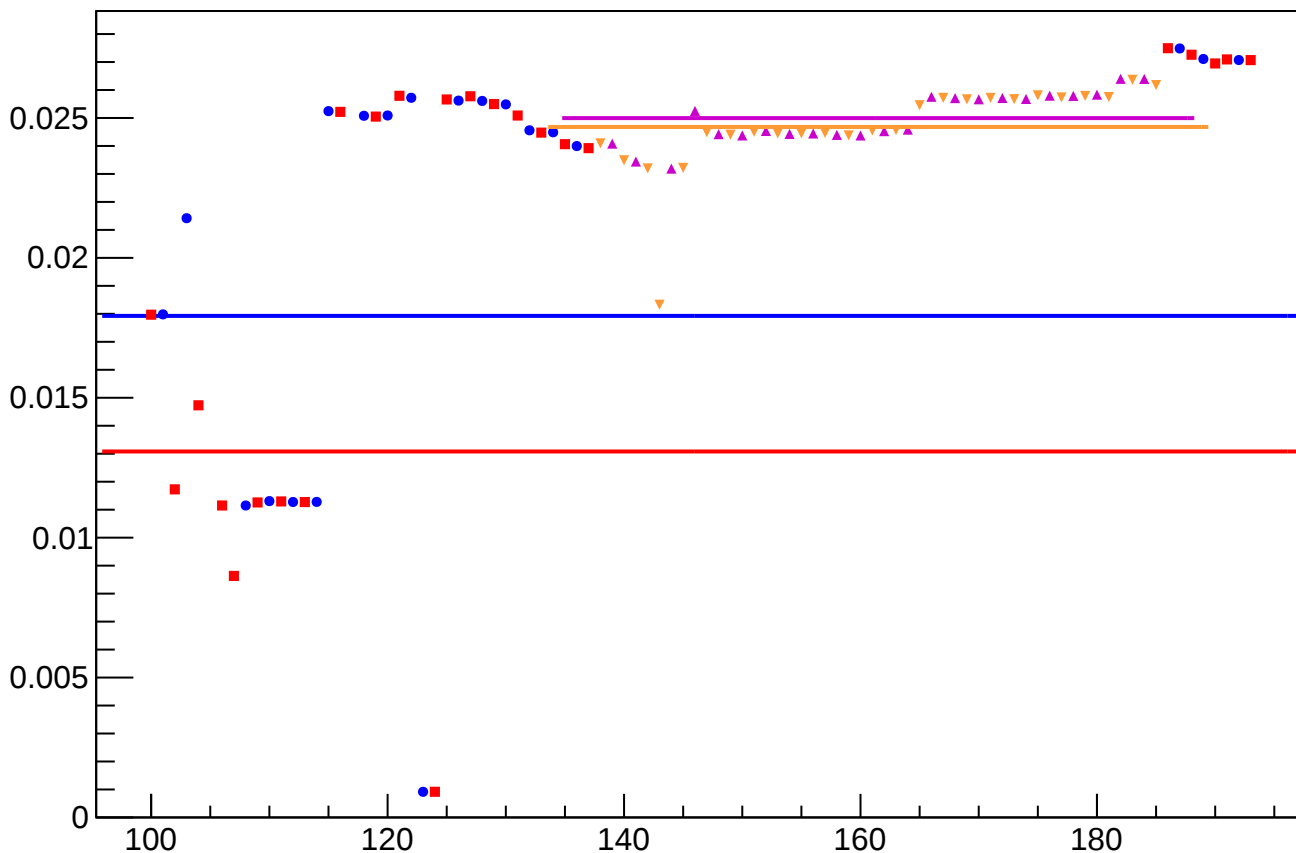
Right: 0.055+/-0.000 χ^2/NDF : 303700.5/42

In: 0.056+/-0.000 χ^2/NDF : 134742.5/42

Out: 0.055+/-0.000 χ^2/NDF : 257123.2/47

All: 0.055+/-0.000 χ^2/NDF : 395580.0/90

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.018+/-0.000

χ^2/NDF : 143512170729.8/19

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.015+/-0.000

χ^2/NDF : 470564353620.5/43

Right Out: 0.013+/-0.000

χ^2/NDF : 301186322683.7/23

In: 0.023+/-0.000

χ^2/NDF : 206836451164.9/42

Out: 0.020+/-0.000

χ^2/NDF : 521062959084.5/48

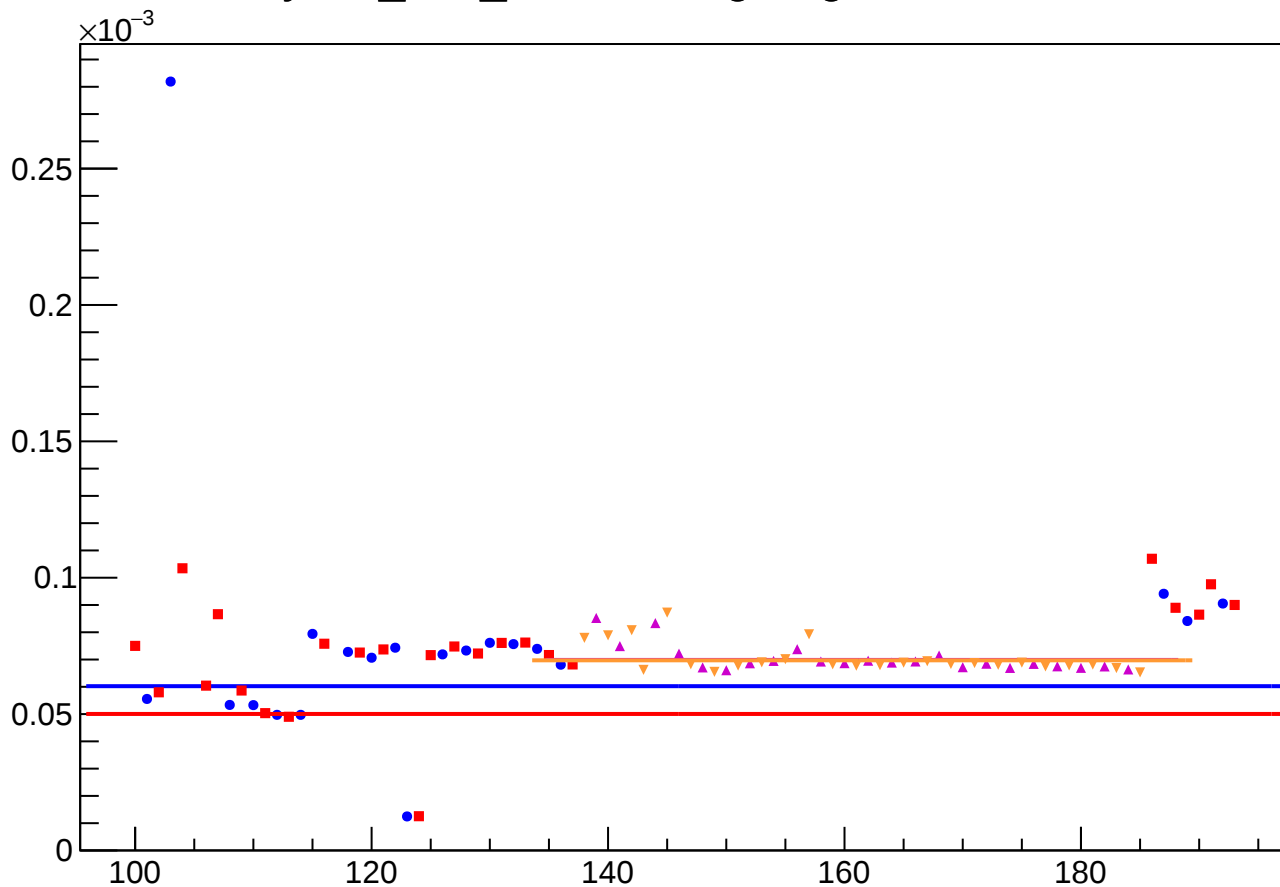
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.021+/-0.000

χ^2/NDF : 749962473194.9

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2339953.9/19

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 4788136.6/23

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

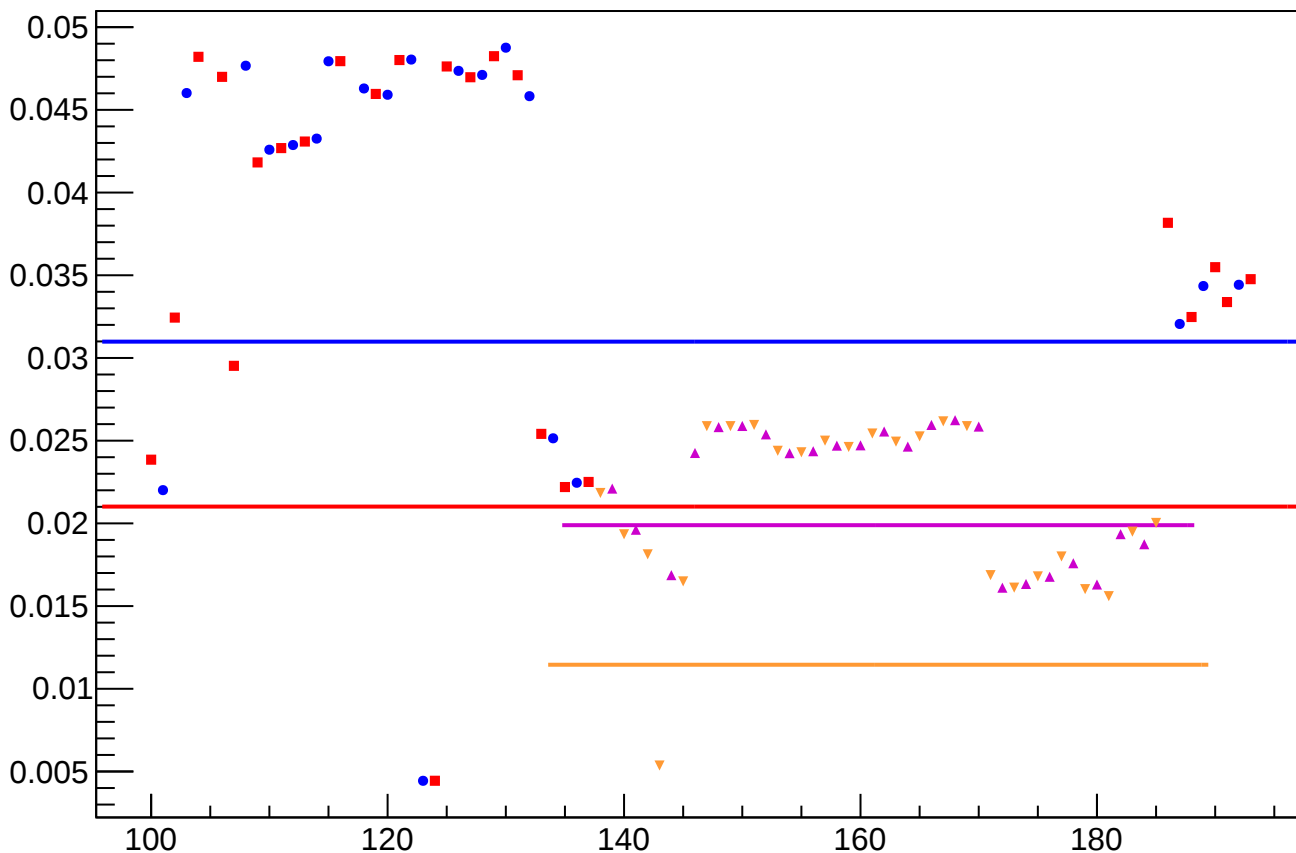
Right: 0.000+/-0.000 χ^2/NDF : 7356458.6/43

In: 0.000+/-0.000 χ^2/NDF :2694894.0/42

Out: 0.000+/-0.000 χ^2/NDF :6154948.5/48

All: 0.000+/-0.000 χ^2/NDF : 9000708.6/91

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21151719955.5/19

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 : 67421036658.5/43

Right Out: 0.021+/-0.000

χ^2/NDF : 41508213731.9/23

In: 0.022+/-0.000

χ^2/NDF : 33108768658.0/42

Out: 0.013+/-0.000

χ^2/NDF : 91653347294.9/48

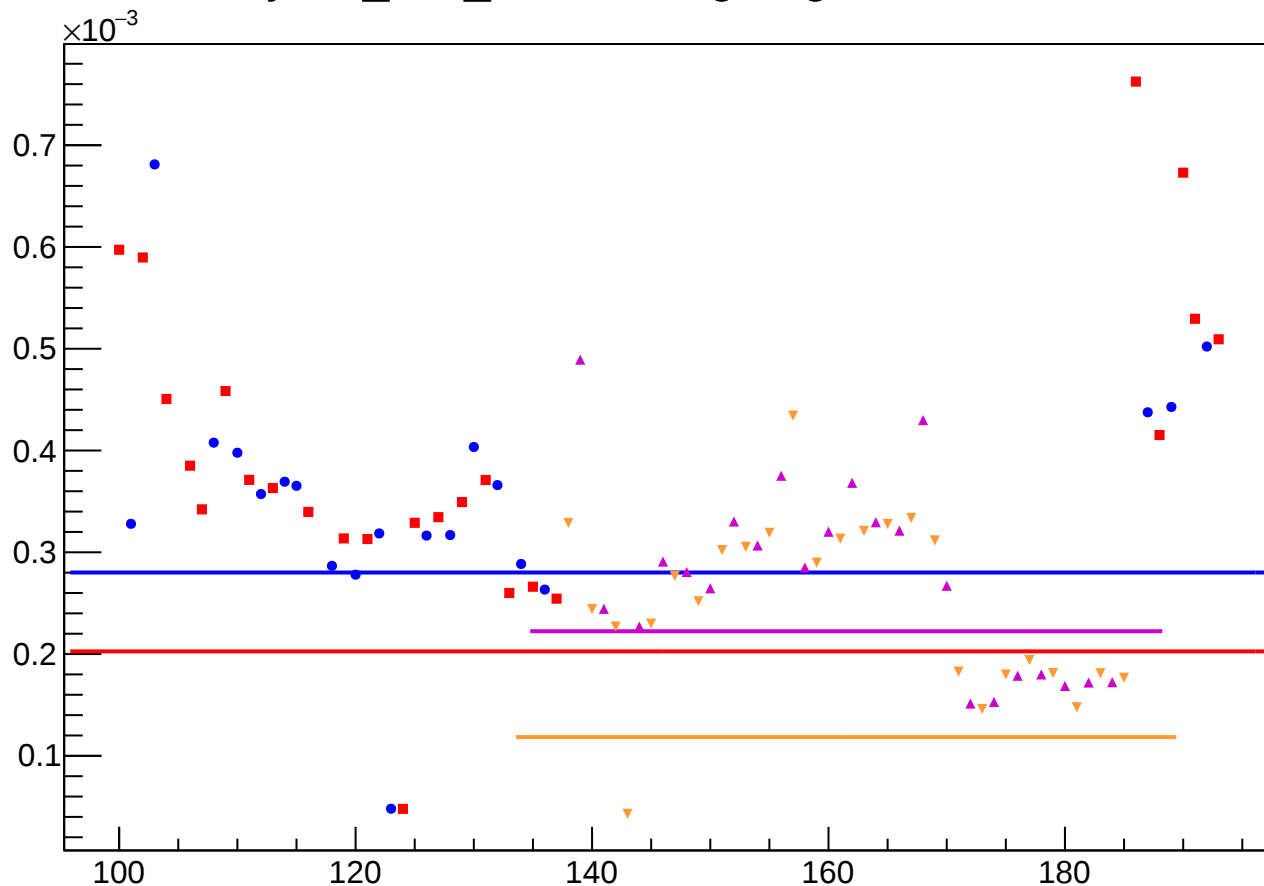
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 147011842544.7

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2924030.4/19

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7319490.1/23

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

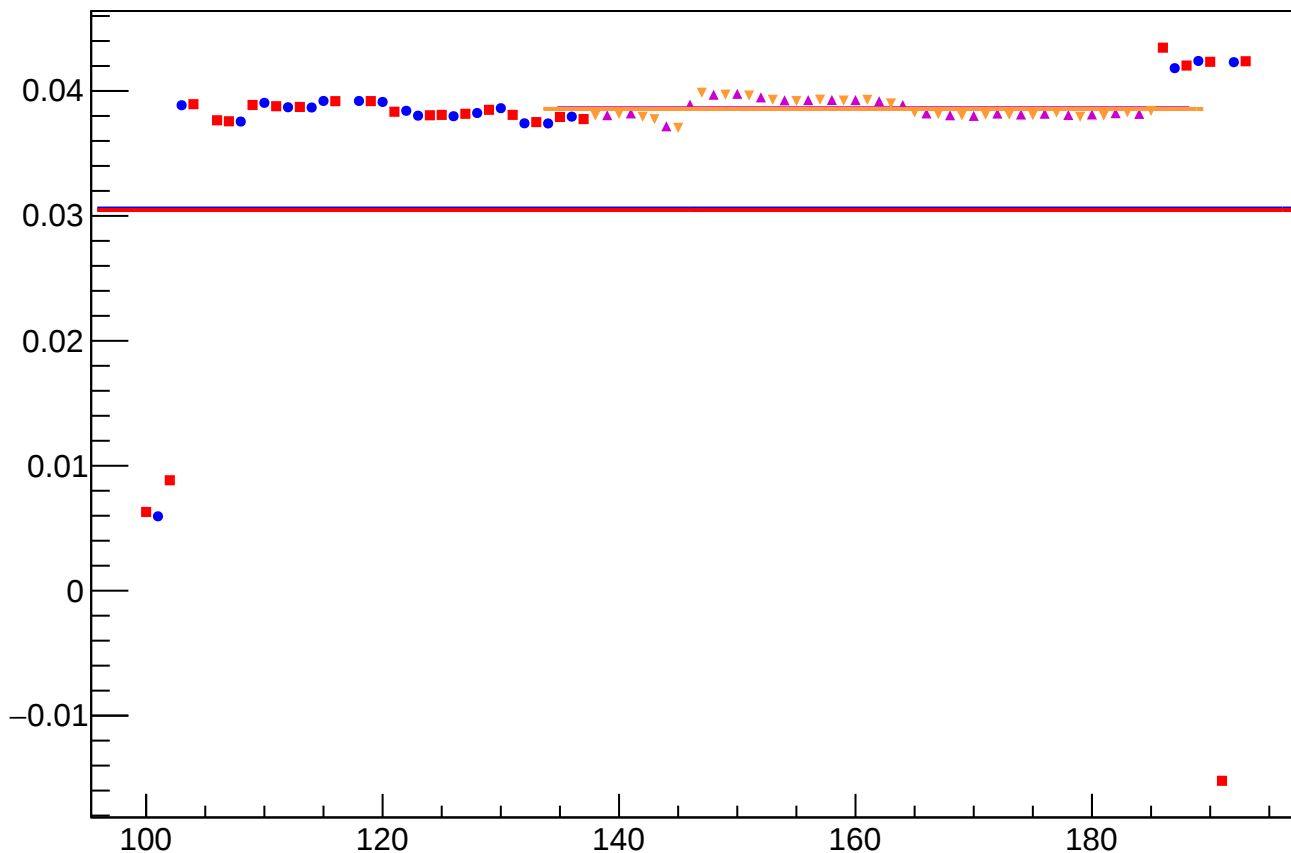
Right: 0.000+/-0.000 χ^2/NDF : 10818685.4/43

In: 0.000+/-0.000 χ^2/NDF :6610748.2/42

Out: 0.000+/-0.000 χ^2/NDF :22411707.0/48

All: 0.000+/-0.000 χ^2/NDF : 34509159.9/91

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 101682898541.8/19

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right Out: 0.030+/-0.000

χ^2/NDF : 168038320556.7/23

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 : 269724893534.6/43

In: 0.036+/-0.000

χ^2/NDF : 123886350915.4/42

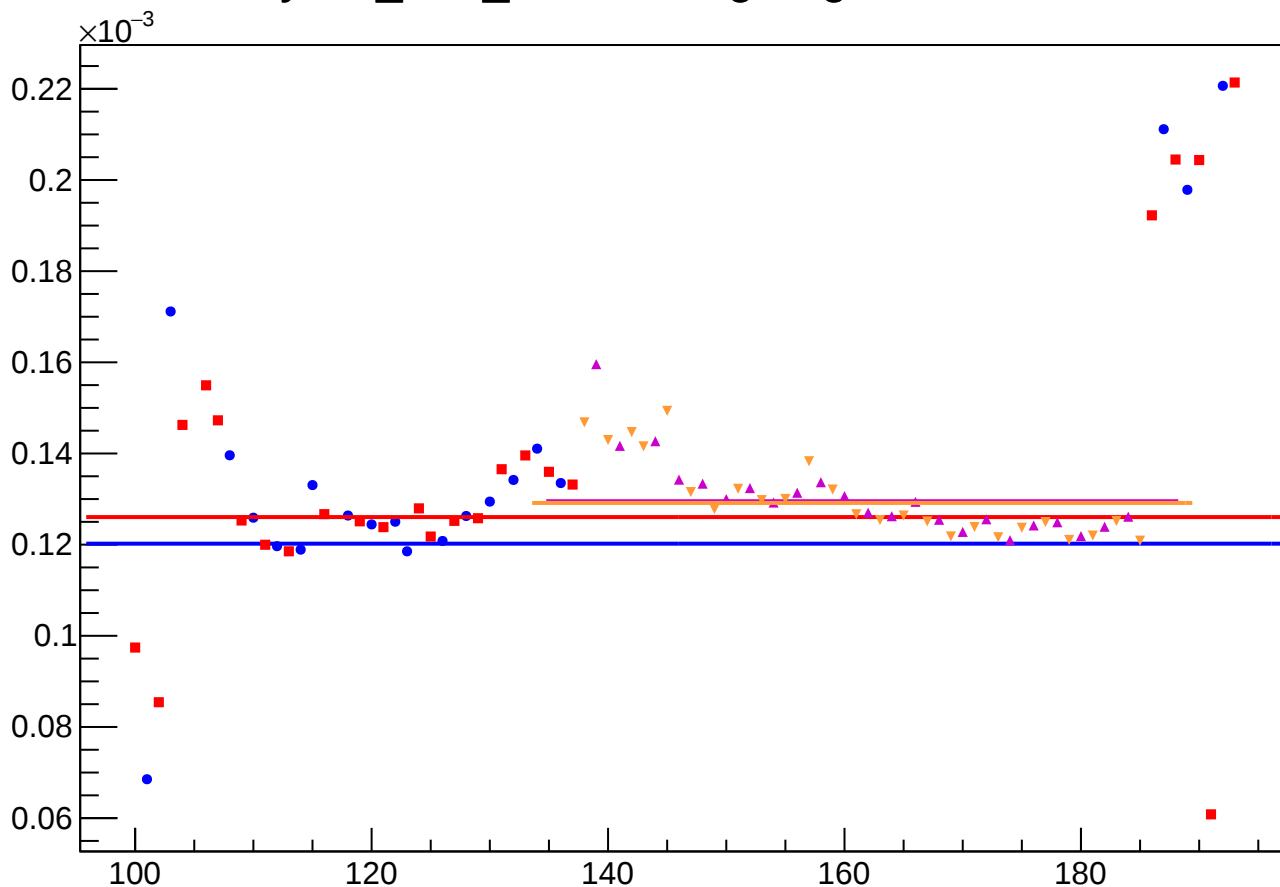
Out: 0.036+/-0.000

χ^2/NDF : 192064504102.2/48

All: 0.036+/-0.000

χ^2/NDF : 315956816763.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1386172.1/19

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 1401419.0/23

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

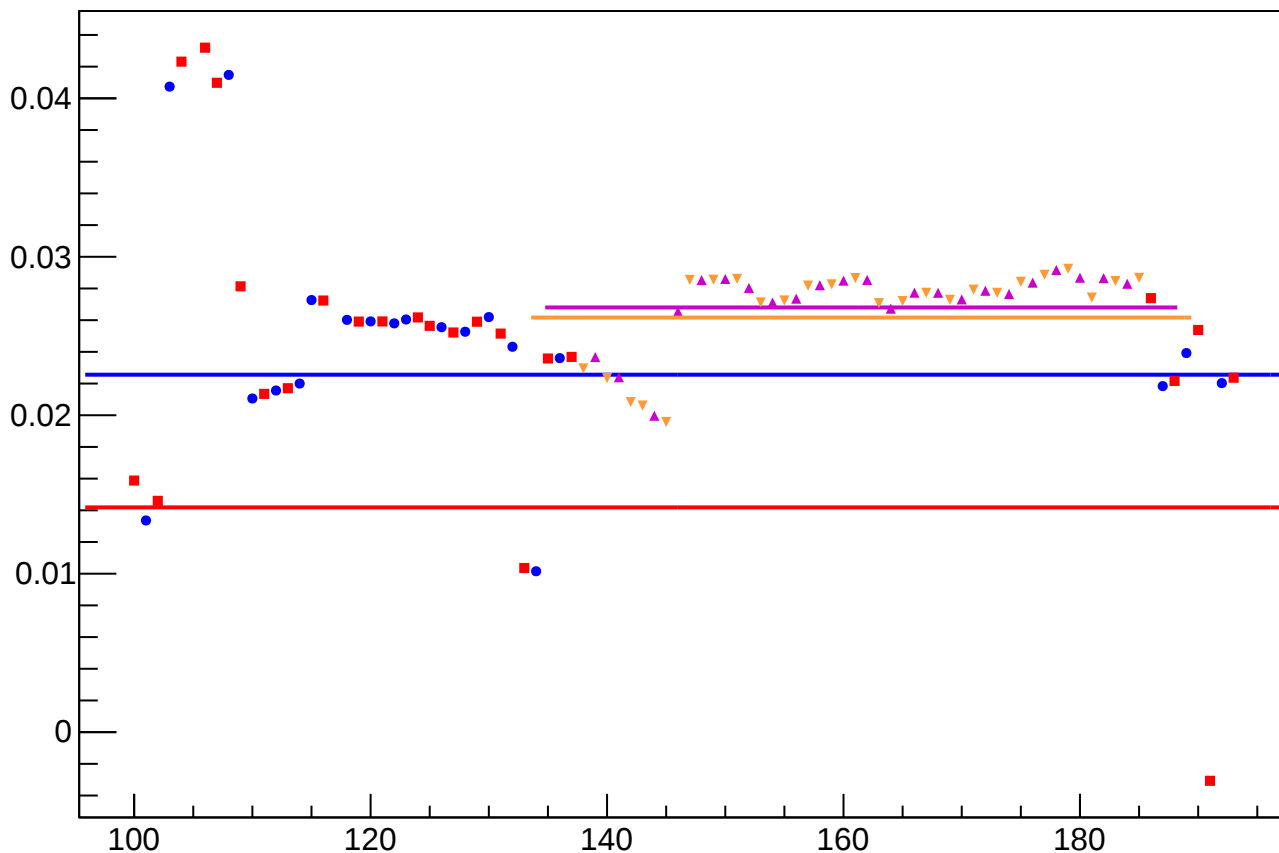
Right: 0.000+/-0.000 χ^2/NDF : 2805302.1/43

In: 0.000+/-0.000 χ^2/NDF :1559441.1/42

Out: 0.000+/-0.000 χ^2/NDF :1538644.8/48

All: 0.000+/-0.000 χ^2/NDF : 3102490.8/91

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4243800014.7/19

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.014+/-0.000 χ^2/NDF : 30345914931.5/23

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

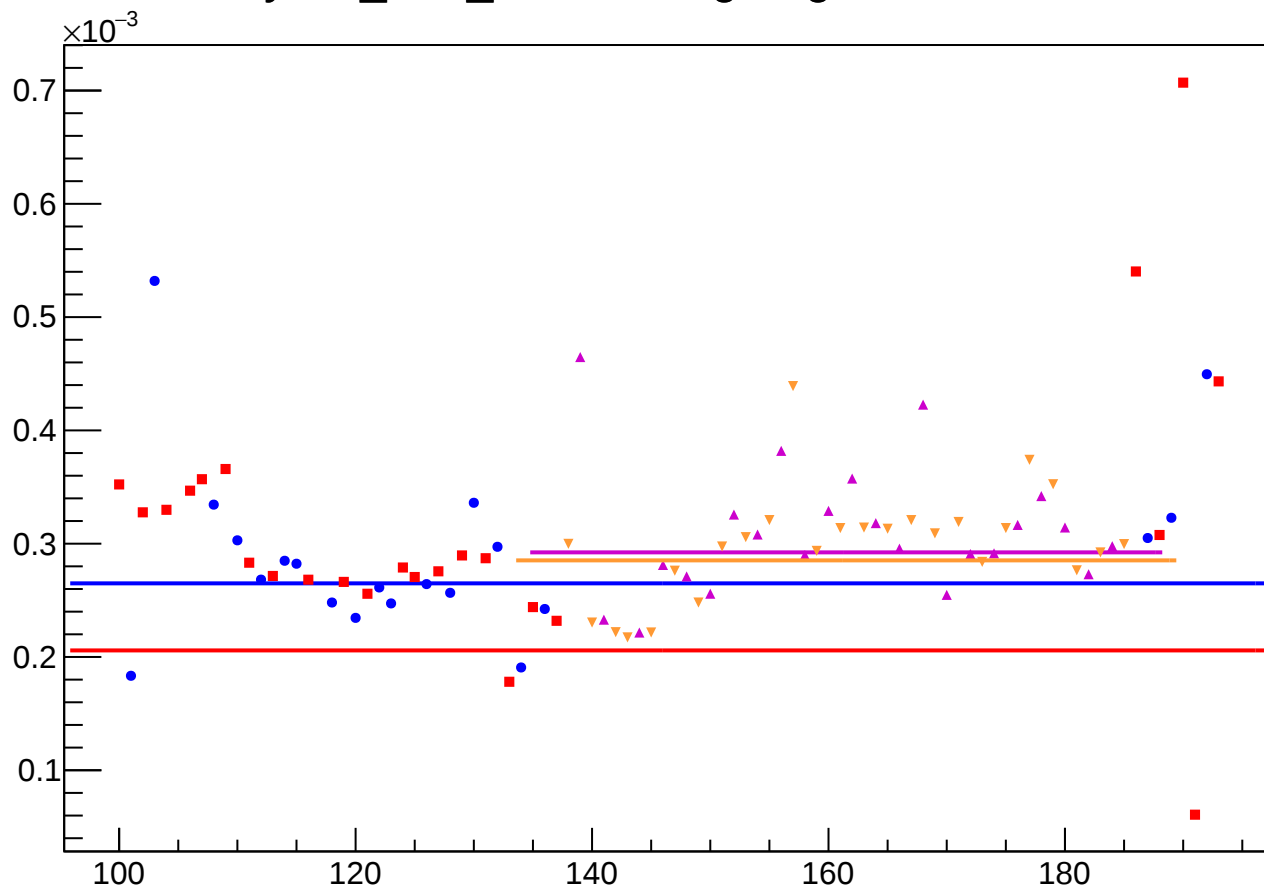
Right: 0.017+/-0.000 χ^2/NDF : 38799074185.1/43

In: 0.025+/-0.000 χ^2/NDF : 6737139918.6/42

Out: 0.021+/-0.000 χ^2/NDF : 44850963898.4/48

All: 0.023+/-0.000 χ^2/NDF : 54520874651.1/95

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 979397.4/19

Left Out: 0.000+/-0.000 χ^2/NDF : 813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 4547778.0/23

Left In: 0.000+/-0.000 χ^2/NDF : 898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

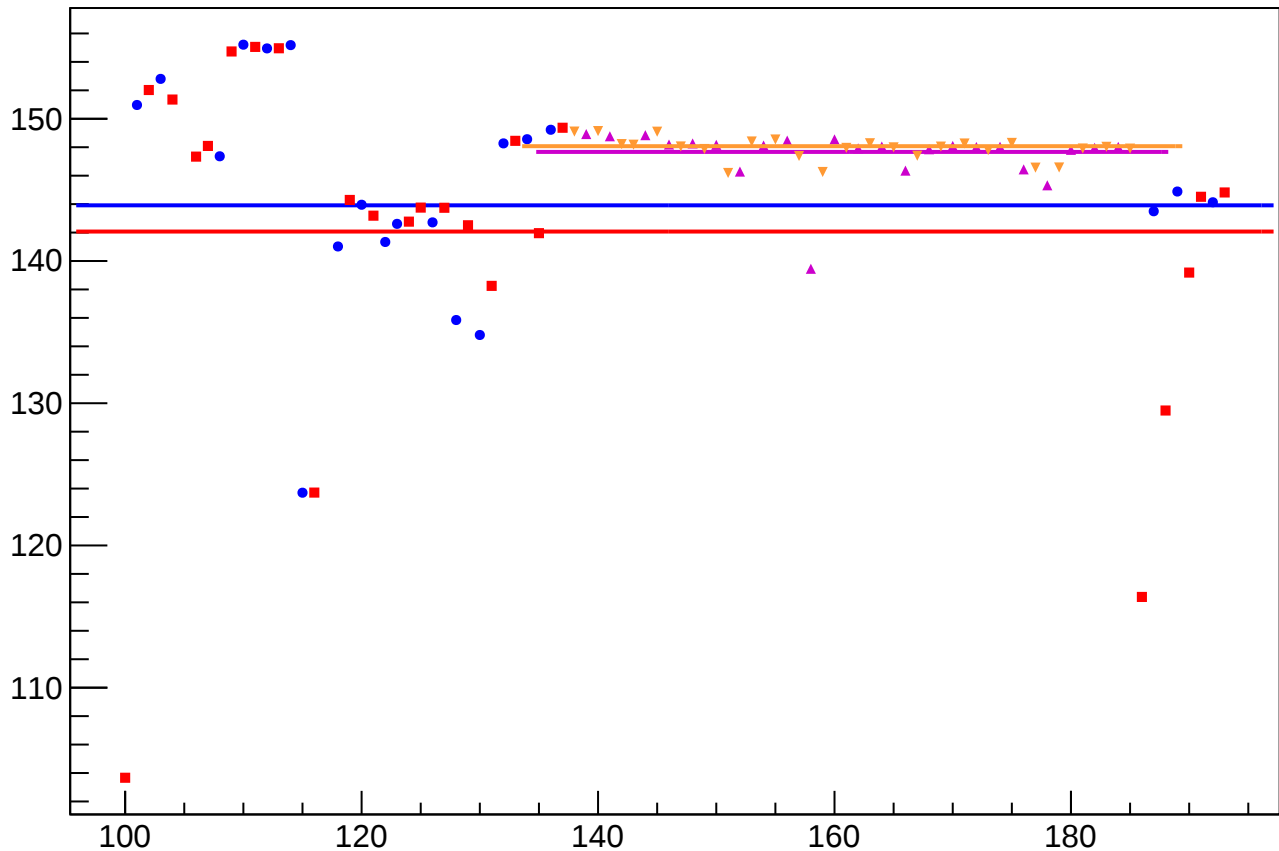
Right: 0.000+/-0.000 χ^2/NDF : 5947979.6/43

In: 0.000+/-0.000 χ^2/NDF : 1974662.4/42

Out: 0.000+/-0.000 χ^2/NDF : 6457213.1/48

All: 0.000+/-0.000 χ^2/NDF : 8749436.0/91

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.915 $\pm$ 0.000 χ^2 /NDF: 3454025314.8/19

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.071 $\pm$ 0.000 χ^2 /NDF: 7260384203.8/23

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

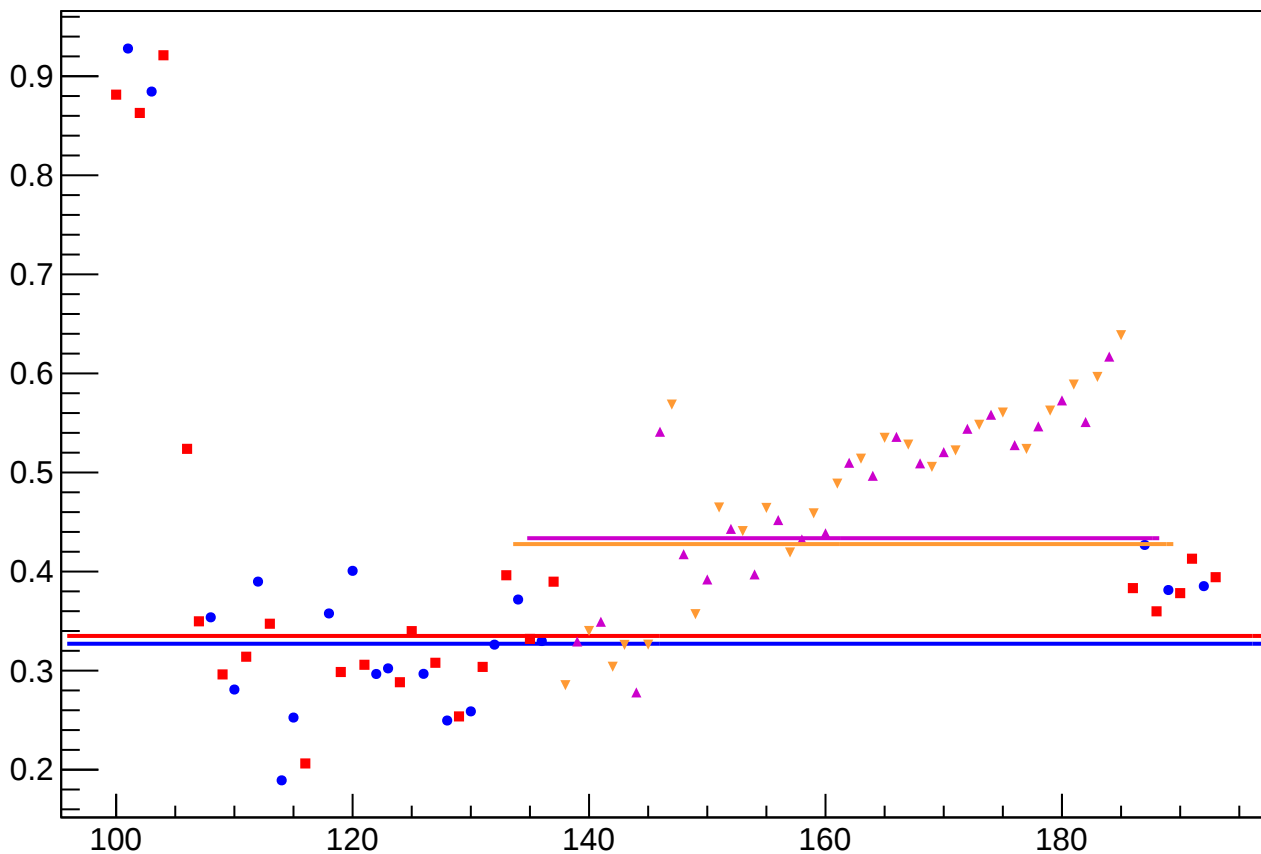
Right: 142.932 $\pm$ 0.000 χ^2 /NDF: 10831526971.7/43

In: 146.064 $\pm$ 0.000 χ^2 /NDF: 4320986418.4/42

Out: 145.413 $\pm$ 0.000 χ^2 /NDF: 8807454451.2/48

All: 145.722 $\pm$ 0.000 χ^2 /NDF: 13162027990.

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.327 $\pm$ 0.000 χ^2/NDF : 1343959.2/19

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1896808.7/24

Right Out: 0.335 $\pm$ 0.000 χ^2/NDF : 1315526.0/23

Left In: 0.434 $\pm$ 0.000 χ^2/NDF :1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2/NDF : 3396308.8/47

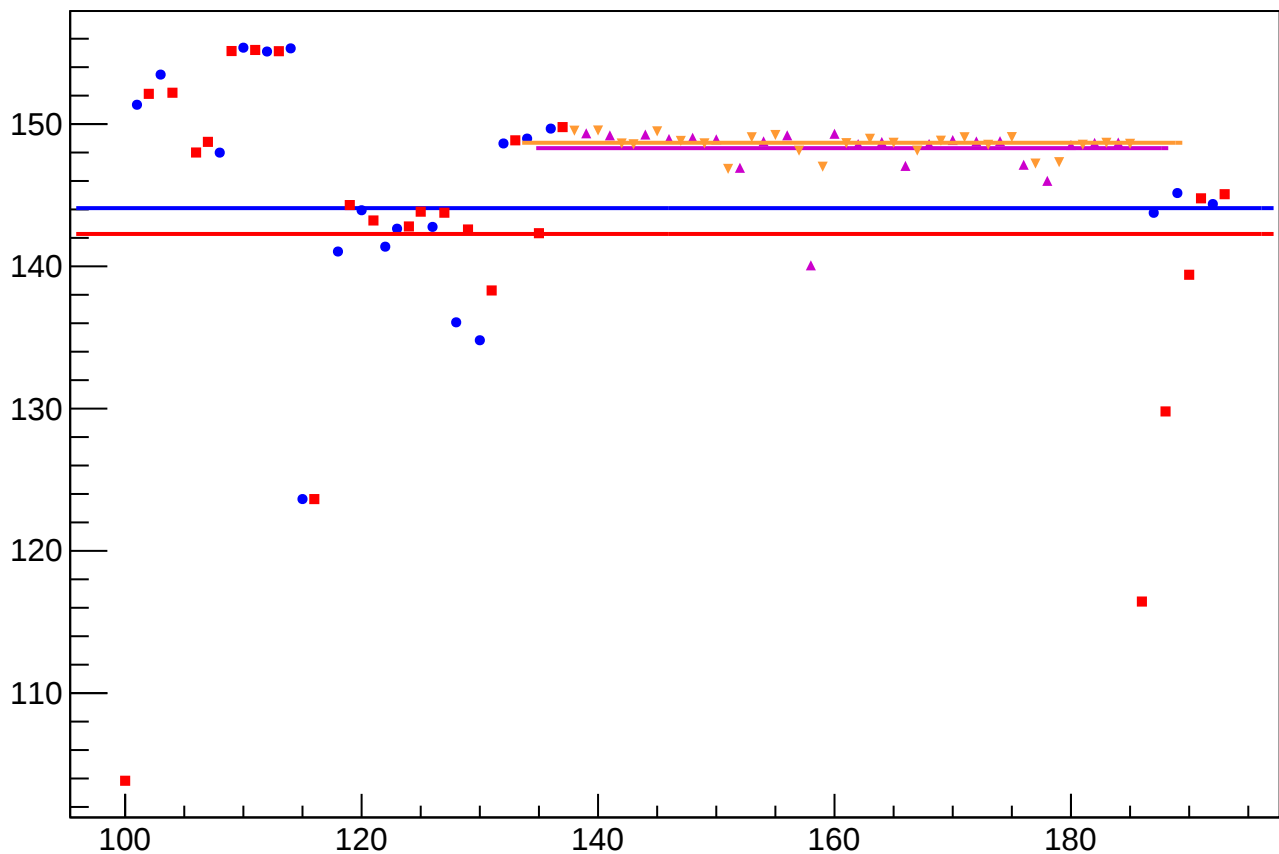
Right: 0.331 $\pm$ 0.000 χ^2/NDF : 2663767.3/43

In: 0.388 $\pm$ 0.000 χ^2/NDF :3679929.0/42

Out: 0.387 $\pm$ 0.000 χ^2/NDF :3919511.7/48

All: 0.387 $\pm$ 0.000 χ^2/NDF : 7599779.5/91

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.091 $\pm$ 0.000 χ^2 /NDF: 3499221141.9/19

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.276 $\pm$ 0.000 χ^2 /NDF: 7204315038.5/23

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

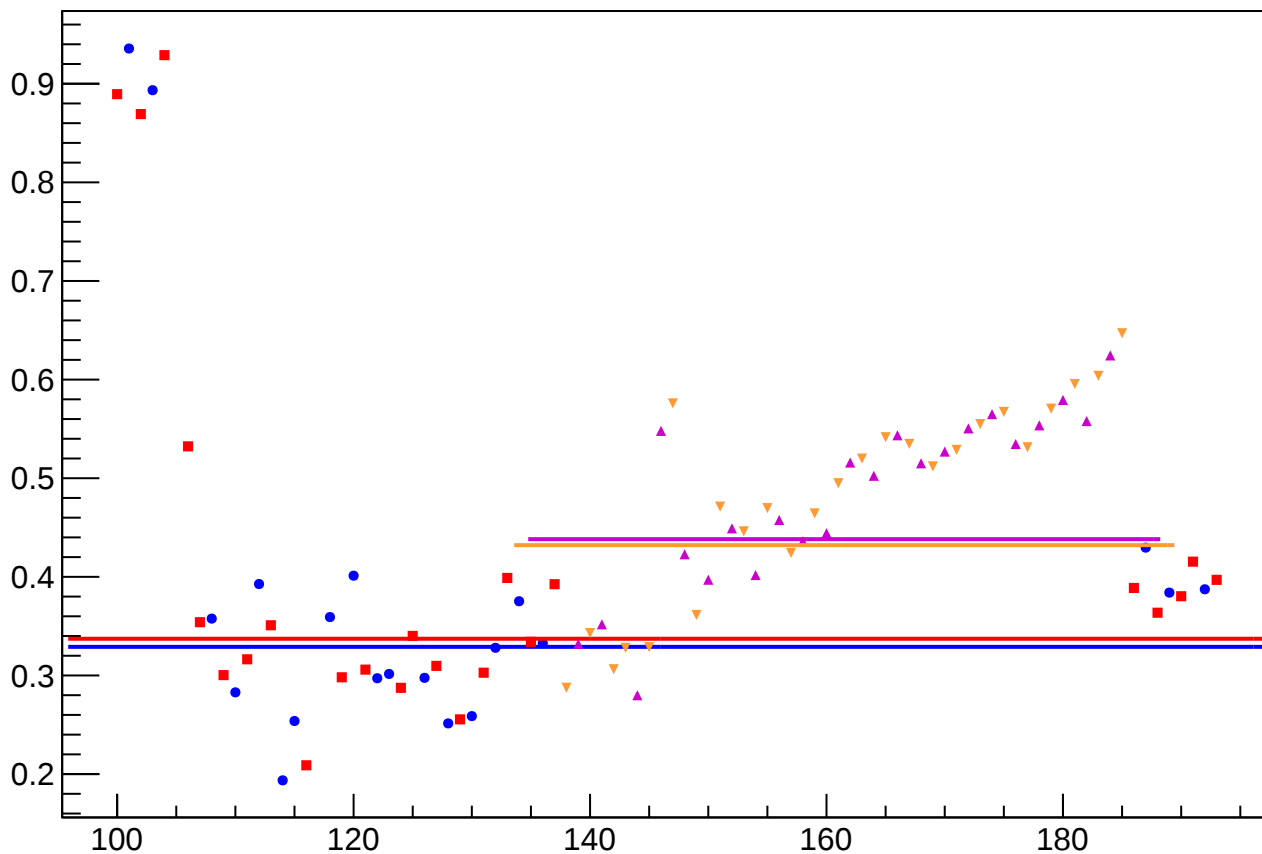
Right: 143.124 $\pm$ 0.000 χ^2 /NDF: 10815696531.5/43

In: 146.493 $\pm$ 0.000 χ^2 /NDF: 4479868826.5/42

Out: 145.832 $\pm$ 0.000 χ^2 /NDF: 8917972044.6/48

All: 146.147 $\pm$ 0.000 χ^2 /NDF: 13431859920.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.329 $\pm$ 0.000 χ^2 /NDF: 1345892.9/19

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.337 $\pm$ 0.000 χ^2 /NDF: 1320384.6/23

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

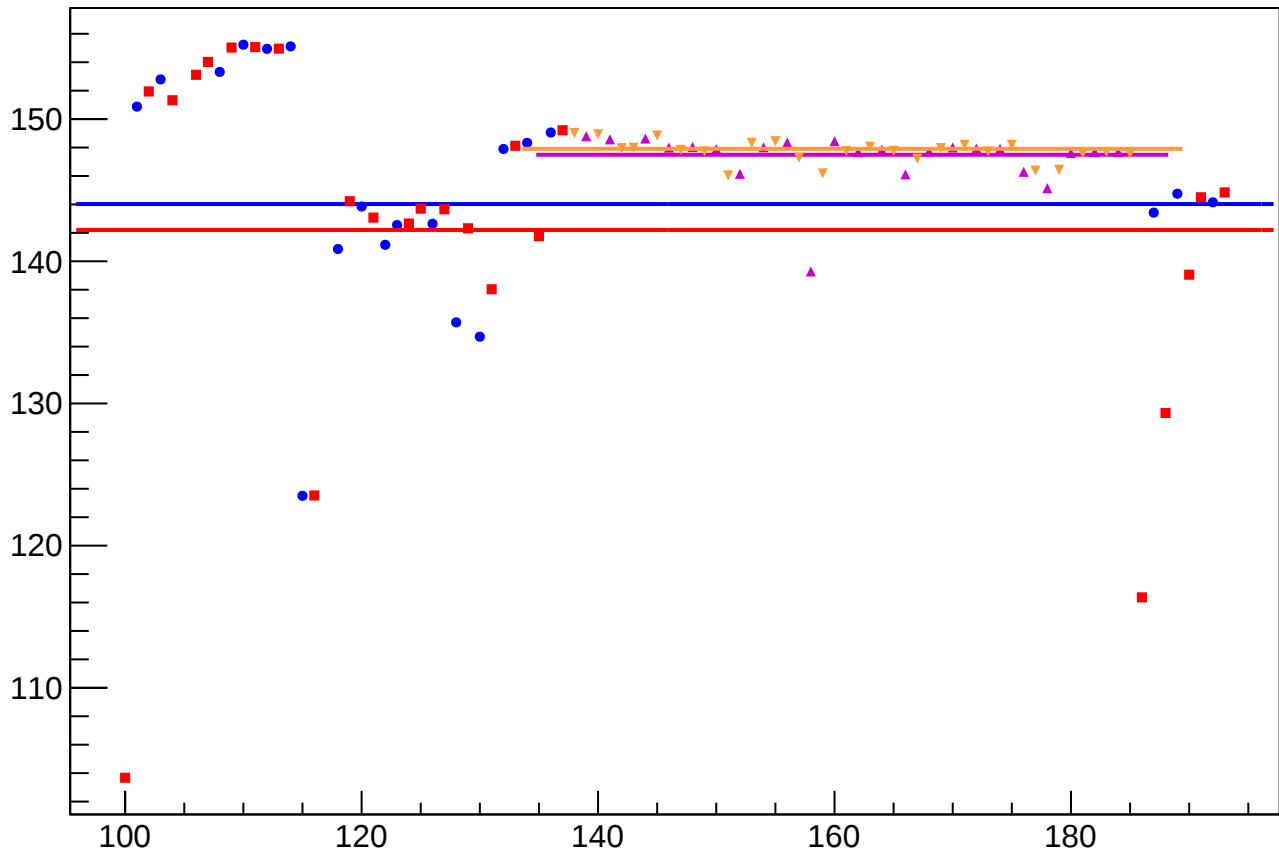
Right: 0.333 $\pm$ 0.000 χ^2 /NDF: 2670867.8/43

In: 0.391 $\pm$ 0.000 χ^2 /NDF:3735759.9/42

Out: 0.390 $\pm$ 0.000 χ^2 /NDF:3977673.4/48

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 7713718.5/91

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.026 ± 0.000 $\chi^2/\text{NDF}: 3666358406.9/19$

Left Out: 147.911 ± 0.000 $\chi^2/\text{NDF}: 64412407.9/24$

Right Out: 142.203 ± 0.000 $\chi^2/\text{NDF}: 7653308209.9/23$

Left In: 147.493 ± 0.000 $\chi^2/\text{NDF}: 343978473.2/22$

Left: 147.709 ± 0.000 $\chi^2/\text{NDF}: 416149781.4/47$

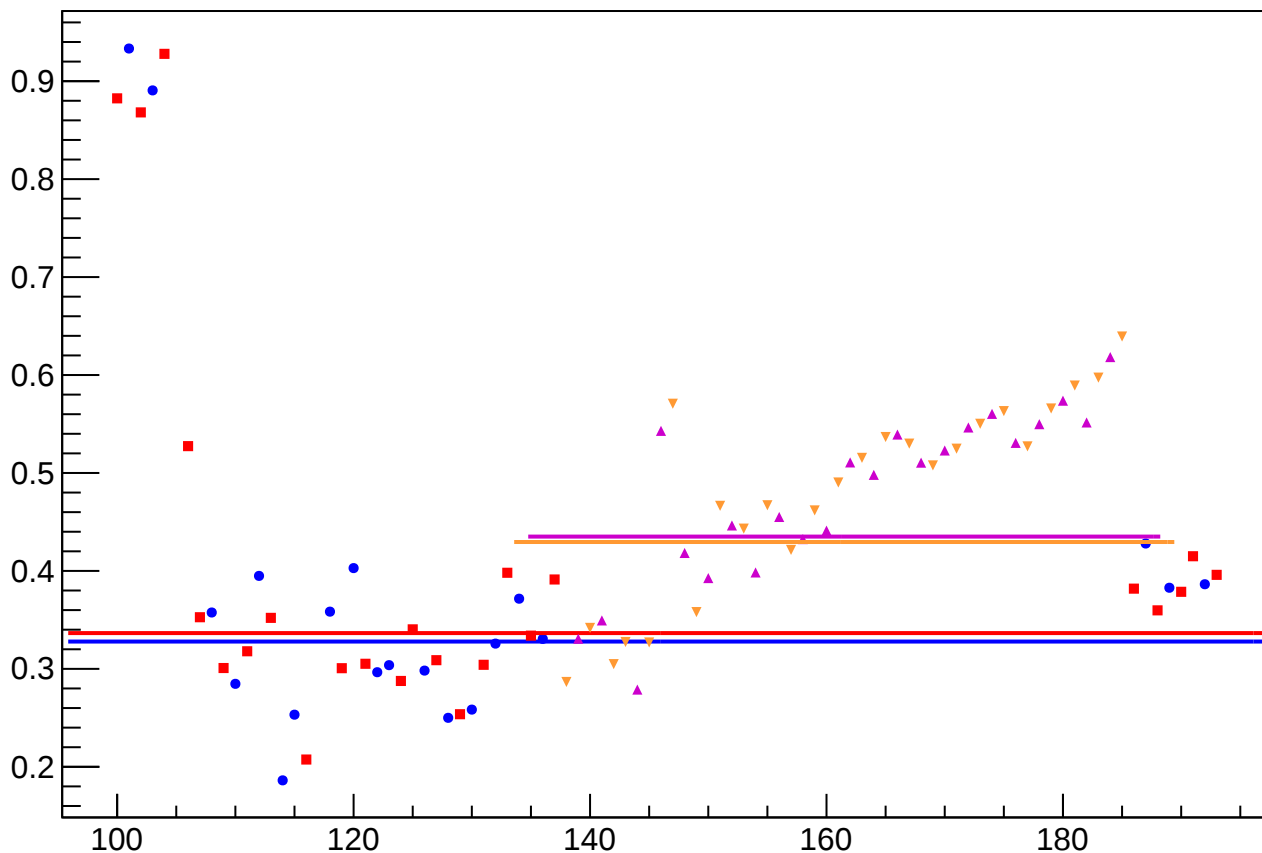
Right: 143.055 ± 0.000 $\chi^2/\text{NDF}: 11433435500.6/43$

In: 146.010 ± 0.000 $\chi^2/\text{NDF}: 4452212883.8/42$

Out: 145.382 ± 0.000 $\chi^2/\text{NDF}: 9046449394.5/48$

All: 145.681 ± 0.000 $\chi^2/\text{NDF}: 13529696842.0/100$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.328 $\pm$ 0.000 χ^2 /NDF: 1359271.8/19

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.337 $\pm$ 0.000 χ^2 /NDF: 1316438.5/23

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

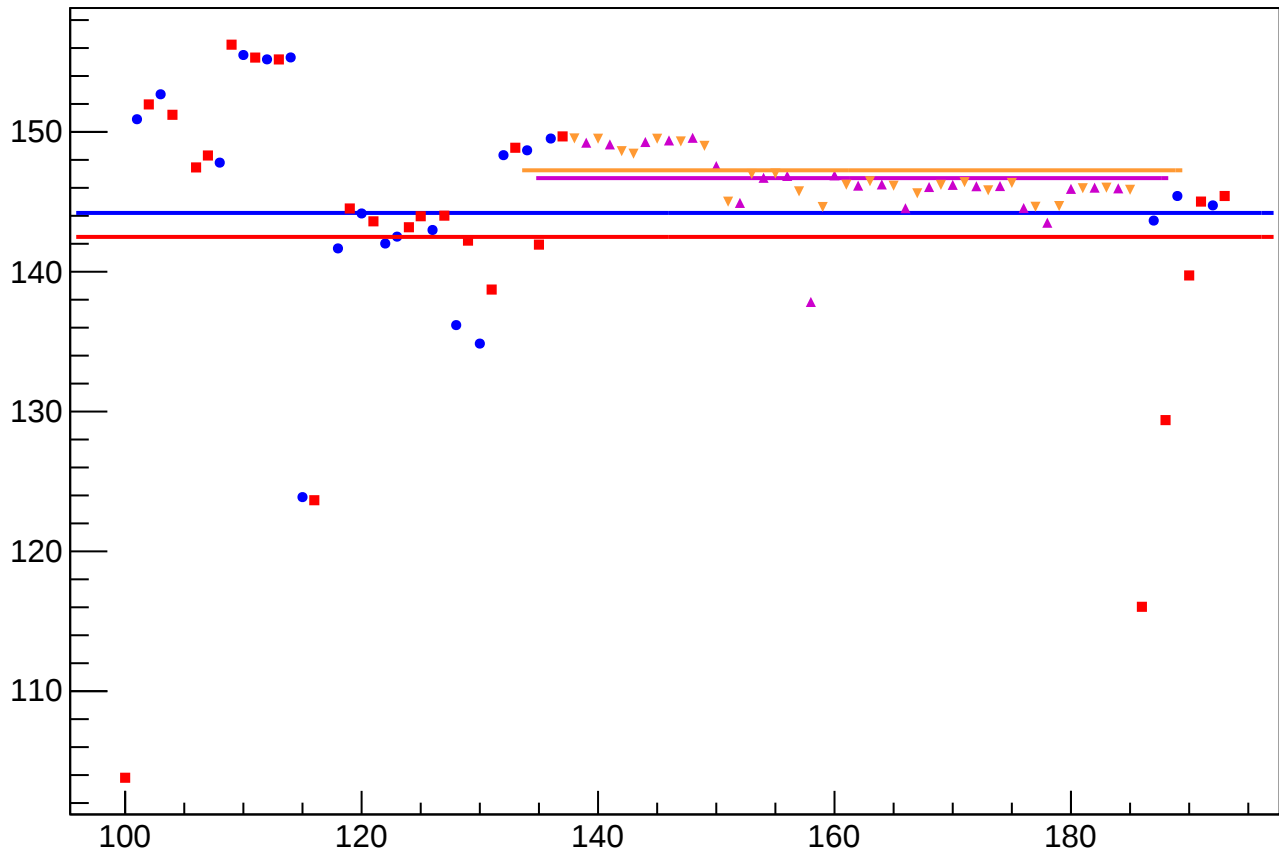
Right: 0.332 $\pm$ 0.000 χ^2 /NDF: 2680831.3/43

In: 0.389 $\pm$ 0.000 χ^2 /NDF:3706265.9/42

Out: 0.388 $\pm$ 0.000 χ^2 /NDF:3917241.5/48

All: 0.389 $\pm$ 0.000 χ^2 /NDF: 7623629.5/91

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.206 $\pm$ 0.000 χ^2/NDF : 3169087797.8/19

Left Out: 147.255 $\pm$ 0.000 χ^2/NDF : 262138049.8/24

Right Out: 142.491 $\pm$ 0.000 χ^2/NDF : 6958011413.6/23

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

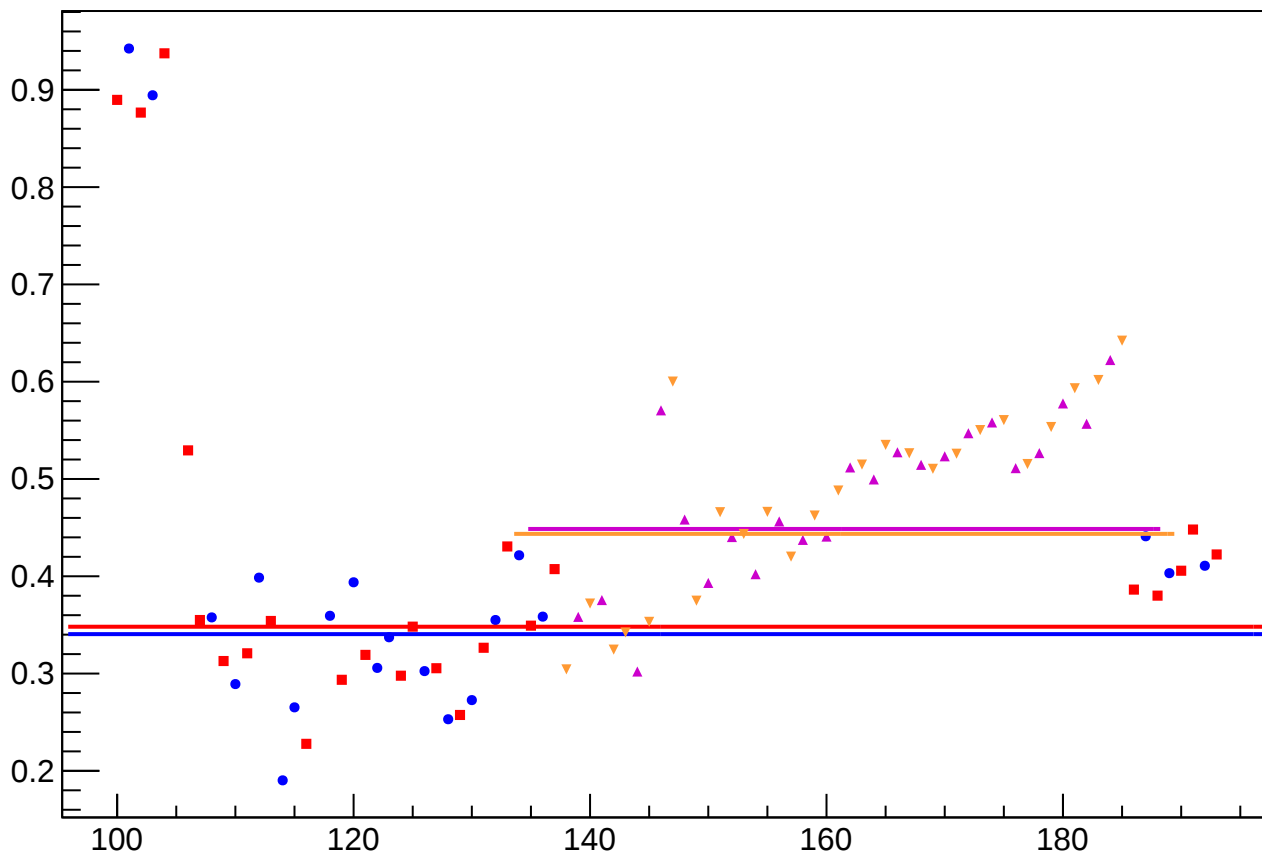
Right: 143.289 $\pm$ 0.000 χ^2/NDF : 10220353186.6/43

In: 145.648 $\pm$ 0.000 χ^2/NDF : 3939733702.1/42

Out: 145.164 $\pm$ 0.000 χ^2/NDF : 8087525758.6/48

All: 145.394 $\pm$ 0.000 χ^2/NDF : 12044554051.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 1358087.7/19

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.348+/-0.000 χ^2/NDF : 1307136.0/23

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

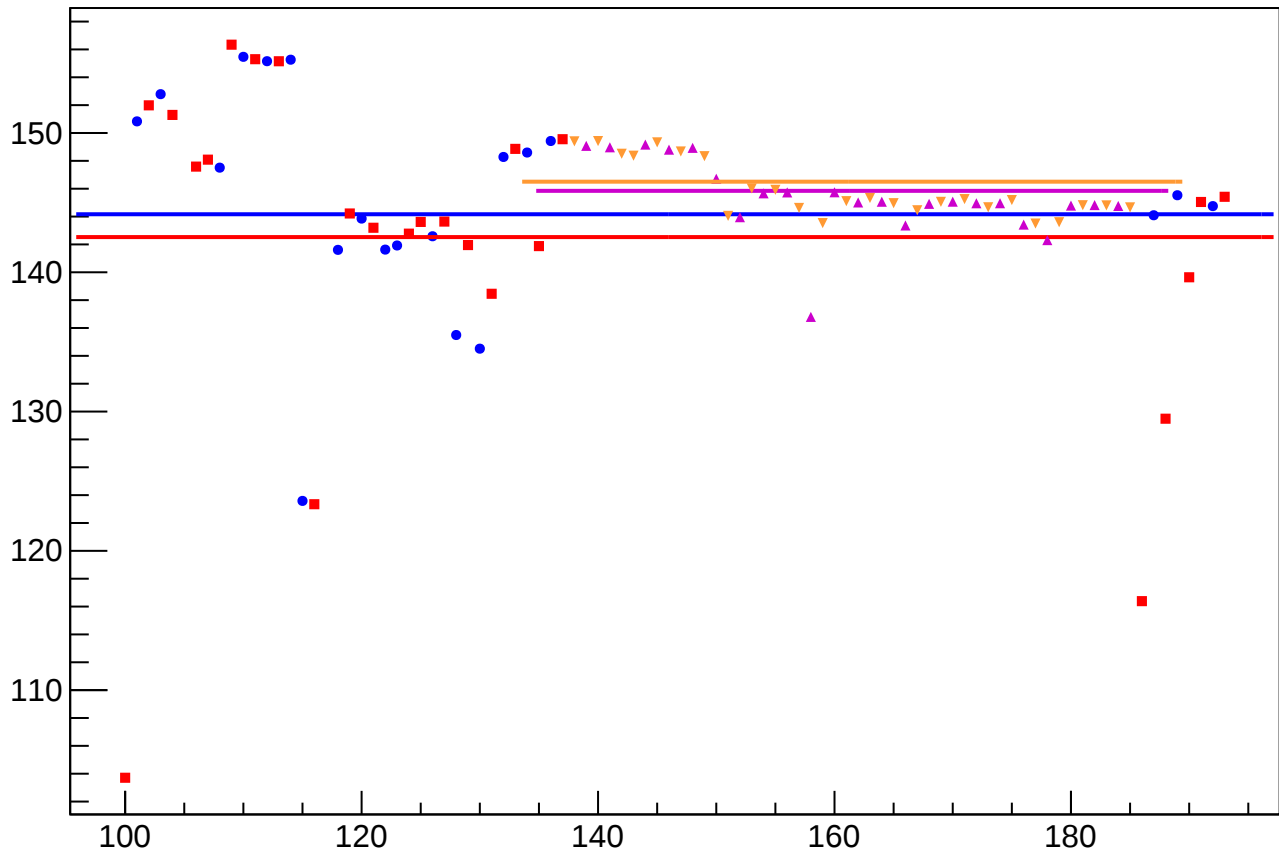
Right: 0.345+/-0.000 χ^2/NDF : 2668894.5/43

In: 0.403+/-0.000 χ^2/NDF :3293408.2/42

Out: 0.402+/-0.000 χ^2/NDF :3487021.1/48

All: 0.402+/-0.000 χ^2/NDF : 6780740.1/91

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.166 $\pm$ 0.000 χ^2 /NDF: 3289613775.9/19

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 142.527 $\pm$ 0.000 χ^2 /NDF: 6937417399.0/23

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

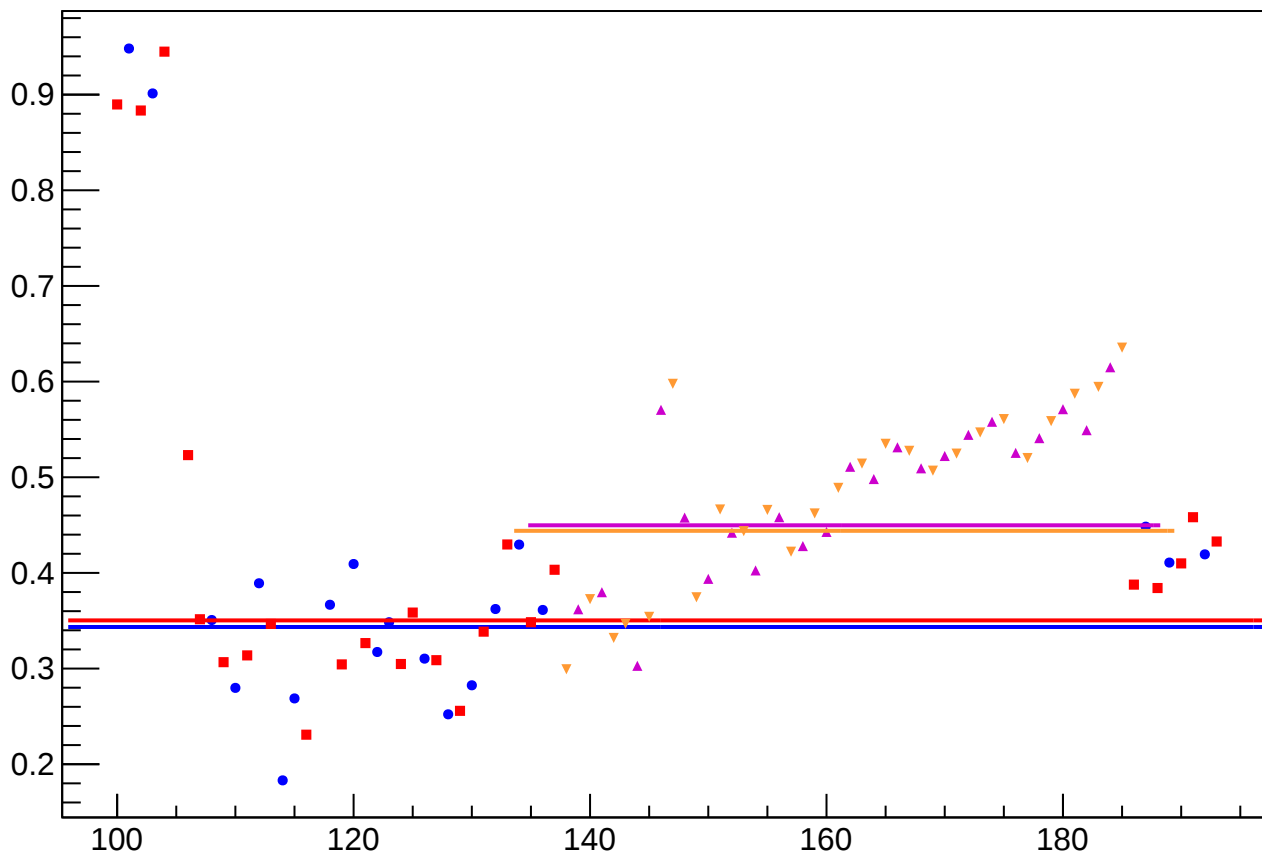
Right: 143.287 $\pm$ 0.000 χ^2 /NDF: 10310603048.2/43

In: 145.146 $\pm$ 0.000 χ^2 /NDF: 4079934650.9/42

Out: 144.772 $\pm$ 0.000 χ^2 /NDF: 7938106237.3/48

All: 144.950 $\pm$ 0.000 χ^2 /NDF: 12028273697.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.343 $\pm$ 0.000 χ^2 /NDF: 1383815.7/19

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.350 $\pm$ 0.000 χ^2 /NDF: 1308923.0/23

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

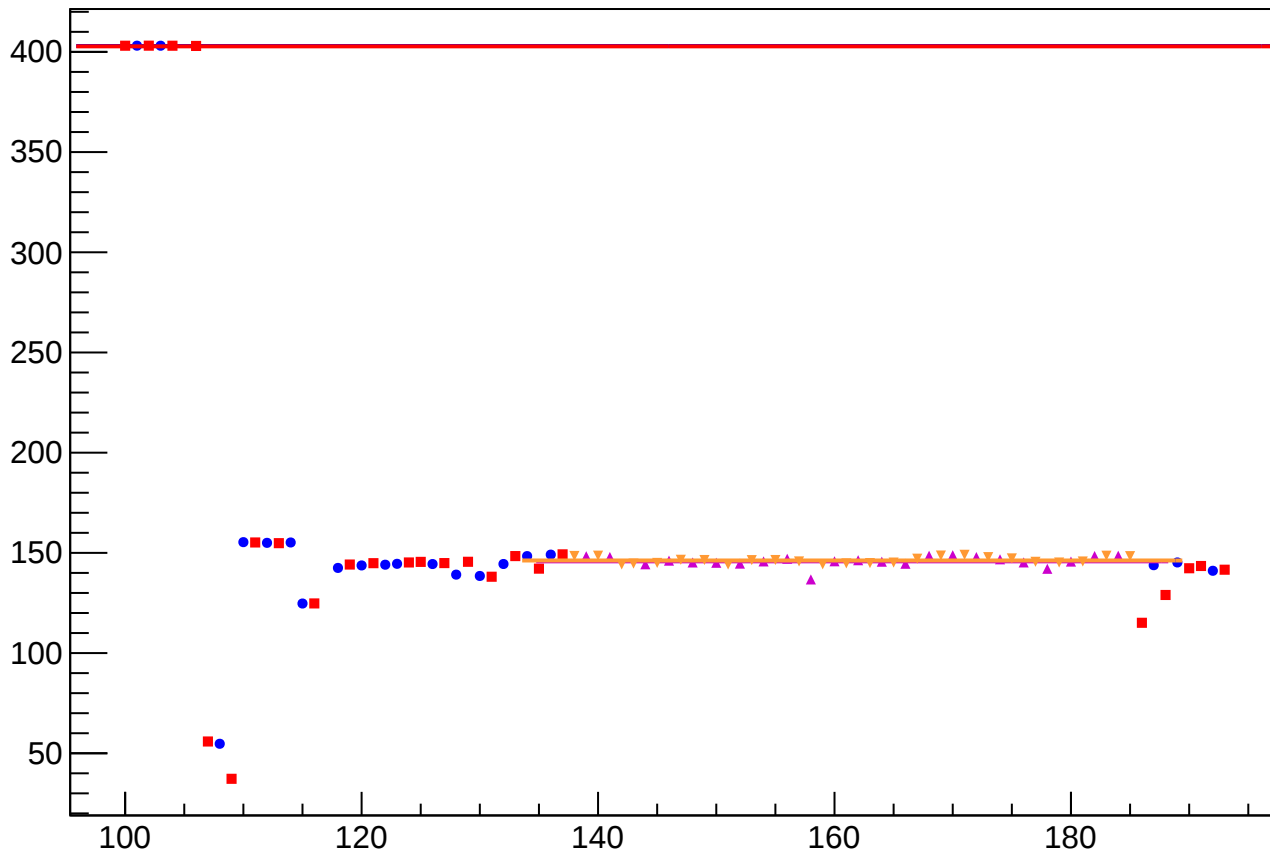
Right: 0.347 $\pm$ 0.000 χ^2 /NDF: 2695700.3/43

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3254008.5/42

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:3436192.4/48

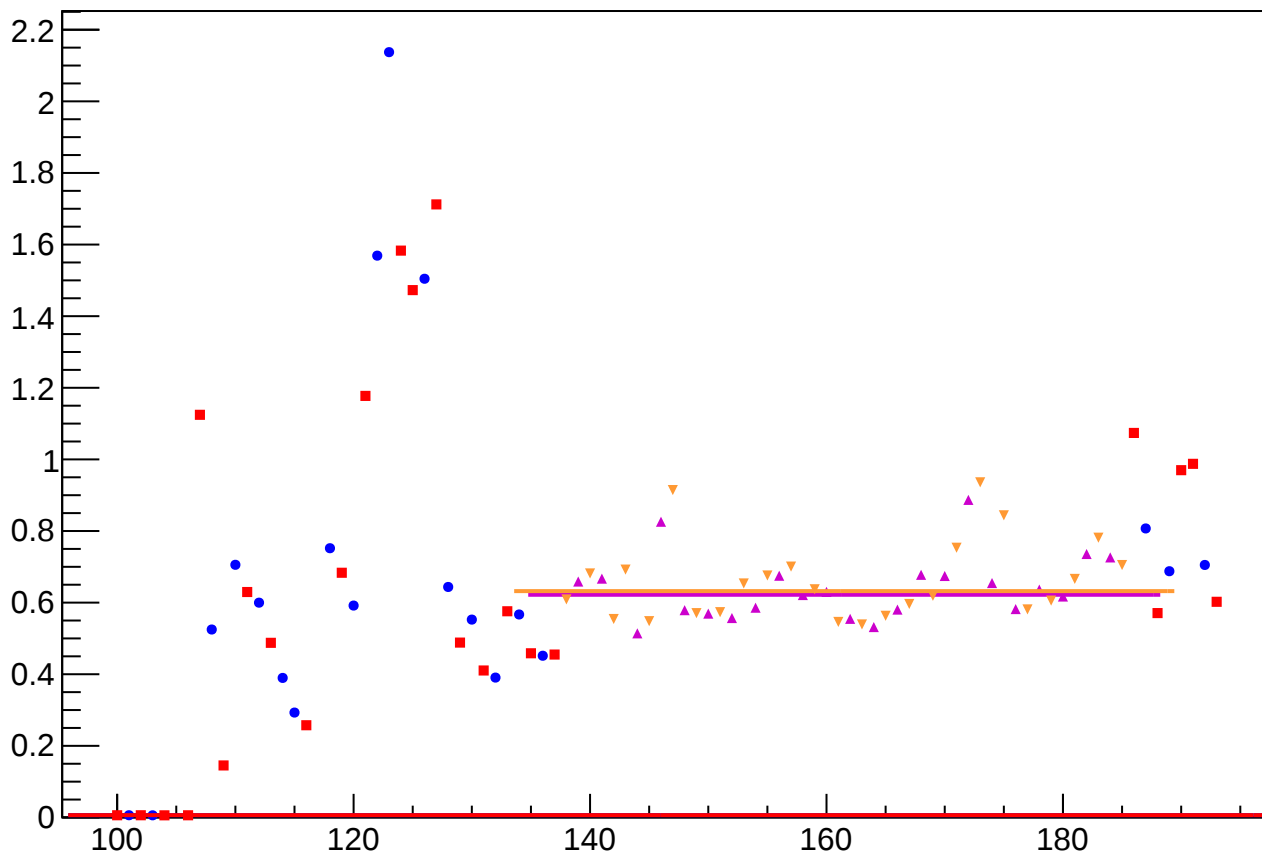
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6690940.7/91

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.939 $\pm$ 0.000 χ^2/NDF : 1245260855105.9/19
 Left Out: 146.205 $\pm$ 0.000 χ^2/NDF : 86658381.3/24
 Right Out: 402.762 $\pm$ 0.000 χ^2/NDF : 3450527672948.2/23
 Left In: 145.773 $\pm$ 0.000 χ^2/NDF : 207332354.9/22
 Left: 145.990 $\pm$ 0.000 χ^2/NDF : 297342055.1/47
 Right: 402.845 $\pm$ 0.000 χ^2/NDF : 4696306386610.7
 In: 402.646 $\pm$ 0.000 χ^2/NDF : 3594953615623.8/42
 Out: 402.500 $\pm$ 0.000 χ^2/NDF : 5819231131230.4/4
 All: 402.568 $\pm$ 0.000 χ^2/NDF : 941453510117

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 11228574.8/19

Left Out: 0.632+/-0.000 χ^2/NDF : 614155.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 13366336.0/23

Left In: 0.622+/-0.000 χ^2/NDF : 404479.0/22

Left: 0.627+/-0.000 χ^2/NDF : 1022337.9/47

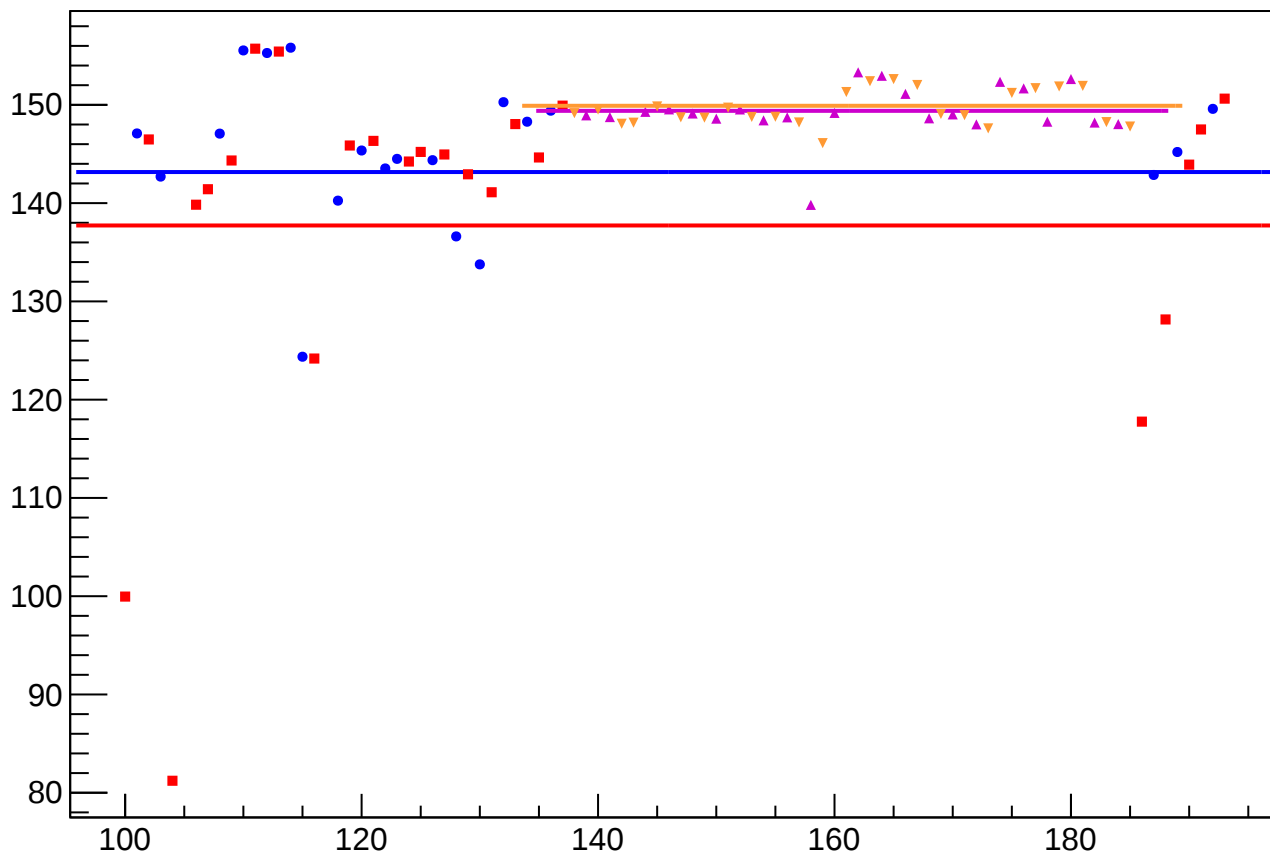
Right: 0.006+/-0.000 χ^2/NDF : 24594936.1/43

In: 0.007+/-0.000 χ^2/NDF : 38554869.2/42

Out: 0.007+/-0.000 χ^2/NDF : 42156858.4/48

All: 0.007+/-0.000 χ^2/NDF : 80711770.2/91

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 143.163 $\pm$ 0.000 χ^2 /NDF: 1092424190.7/19

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 137.726 $\pm$ 0.000 χ^2 /NDF: 2432968048.6/23

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

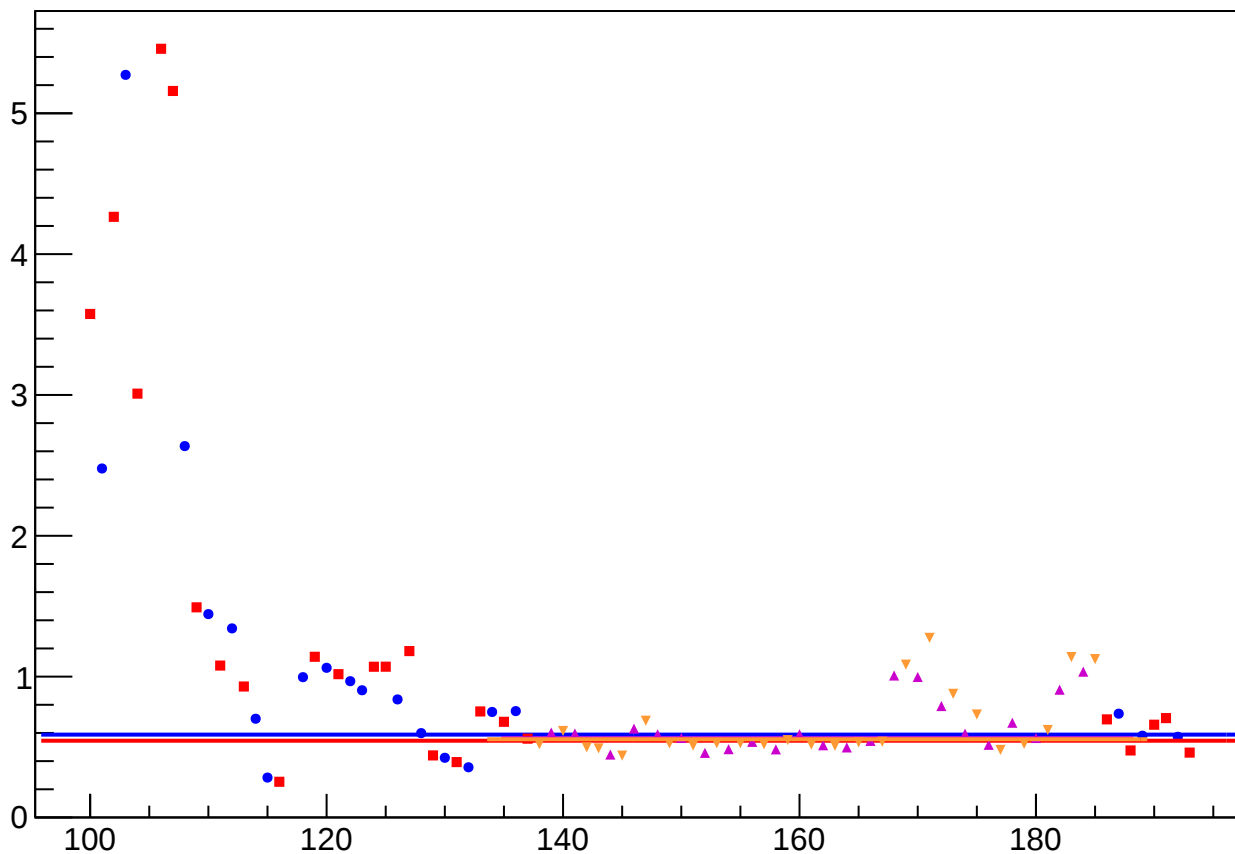
Right: 140.021 $\pm$ 0.000 χ^2 /NDF: 3754841528.1/43

In: 148.020 $\pm$ 0.000 χ^2 /NDF: 1935764161.4/42

Out: 146.675 $\pm$ 0.000 χ^2 /NDF: 4600217577.8/48

All: 147.305 $\pm$ 0.000 χ^2 /NDF: 6594688722.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.588 $\pm$ 0.000 χ^2 /NDF: 3483854.0/19

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.545 $\pm$ 0.000 χ^2 /NDF: 4796944.8/23

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

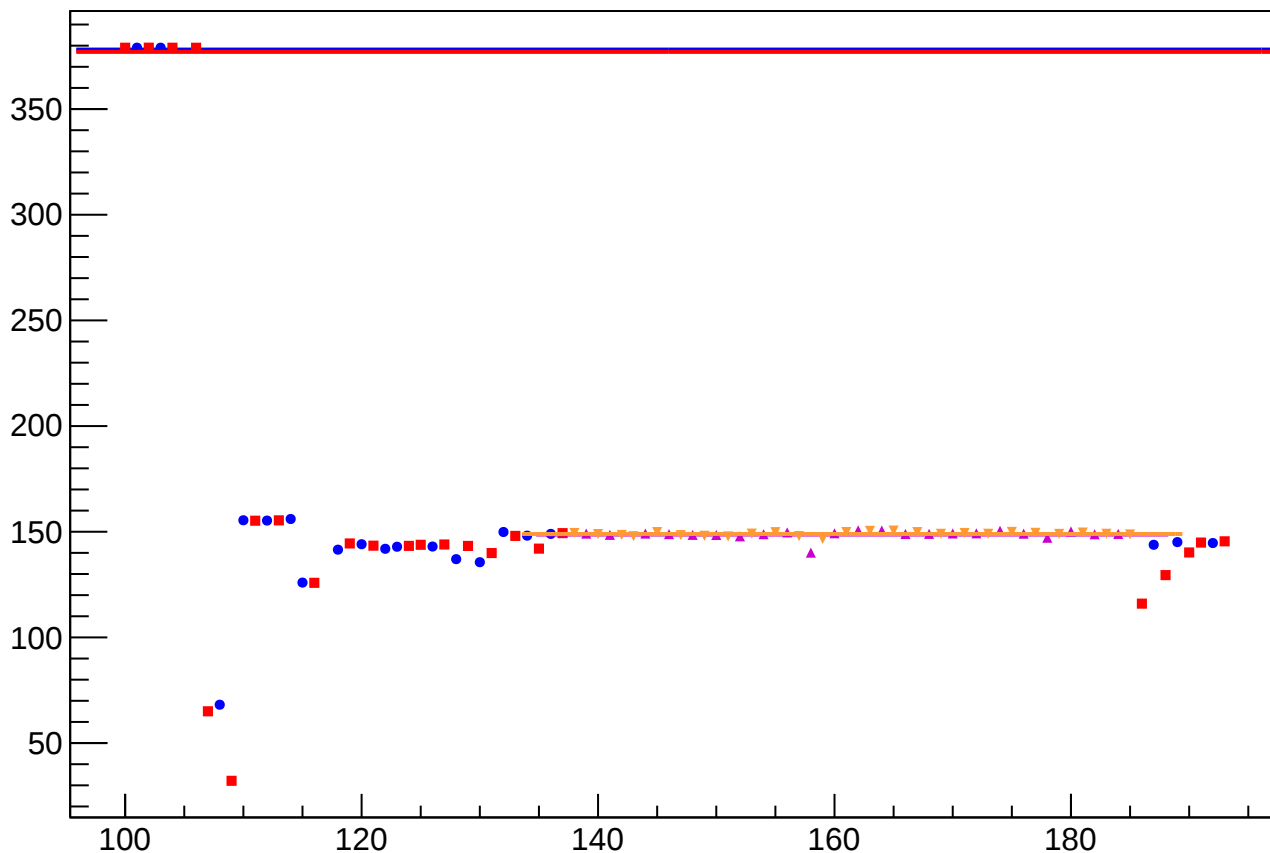
Right: 0.563 $\pm$ 0.000 χ^2 /NDF: 8309961.3/43

In: 0.568 $\pm$ 0.000 χ^2 /NDF:4809196.9/42

Out: 0.553 $\pm$ 0.000 χ^2 /NDF:6573346.0/48

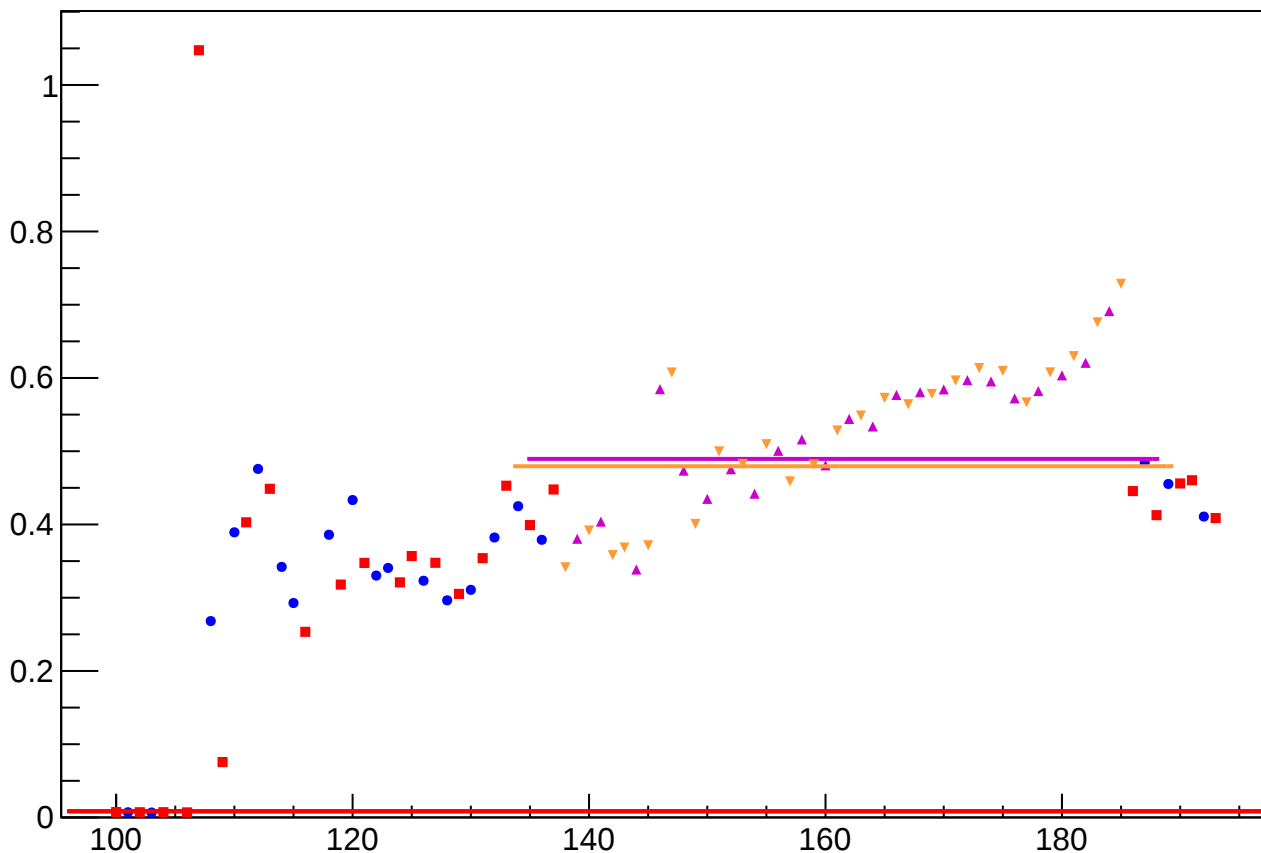
All: 0.560 $\pm$ 0.000 χ^2 /NDF: 11397581.3/91

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.154+/-0.000	χ^2/NDF : 2907938884237.8/19	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.576+/-0.000	χ^2/NDF : 12008136113306.8
Right Out: 377.069+/-0.000	χ^2/NDF : 9091834637325.9/23	In: 376.973+/-0.000	χ^2/NDF : 6518046948513.2/42
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.950+/-0.000	χ^2/NDF : 12968503113599.1
		All: 376.428+/-0.000	χ^2/NDF : 194940154777.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 12494722.3/19

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 14267303.3/23

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

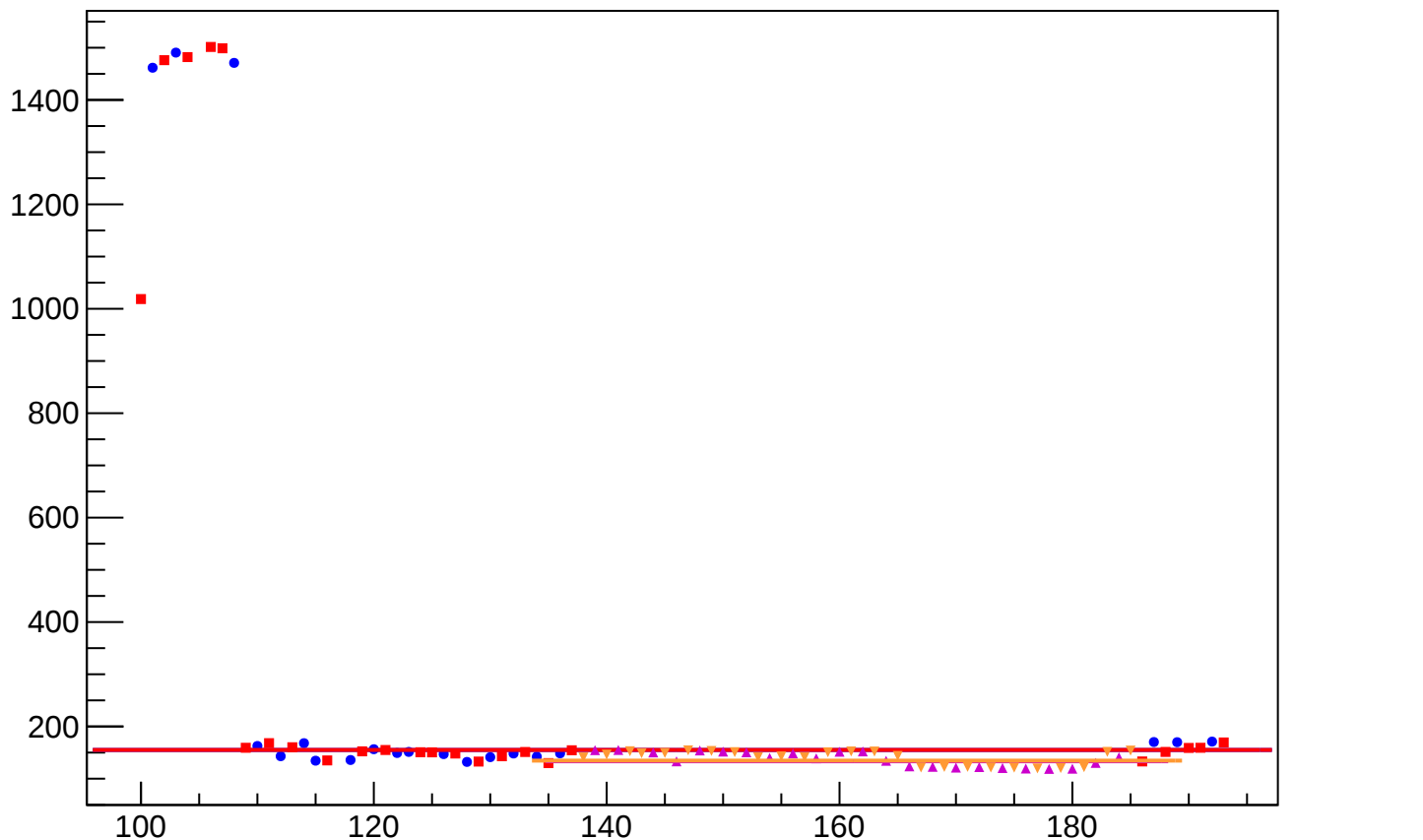
Right: 0.008+/-0.000 χ^2/NDF : 26762402.8/43

In: 0.011+/-0.000 χ^2/NDF :45327789.5/42

Out: 0.011+/-0.000 χ^2/NDF :48833095.3/48

All: 0.011+/-0.000 χ^2/NDF : 94160885.0/91

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.994 +/- 0.000 χ^2/NDF : 25373877251.8/19

Left Out: 134.585 +/- 0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.058 +/- 0.000 χ^2/NDF : 34348628365.4/23

Left In: 133.309 +/- 0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958 +/- 0.000 χ^2/NDF : 8759337937.7/47

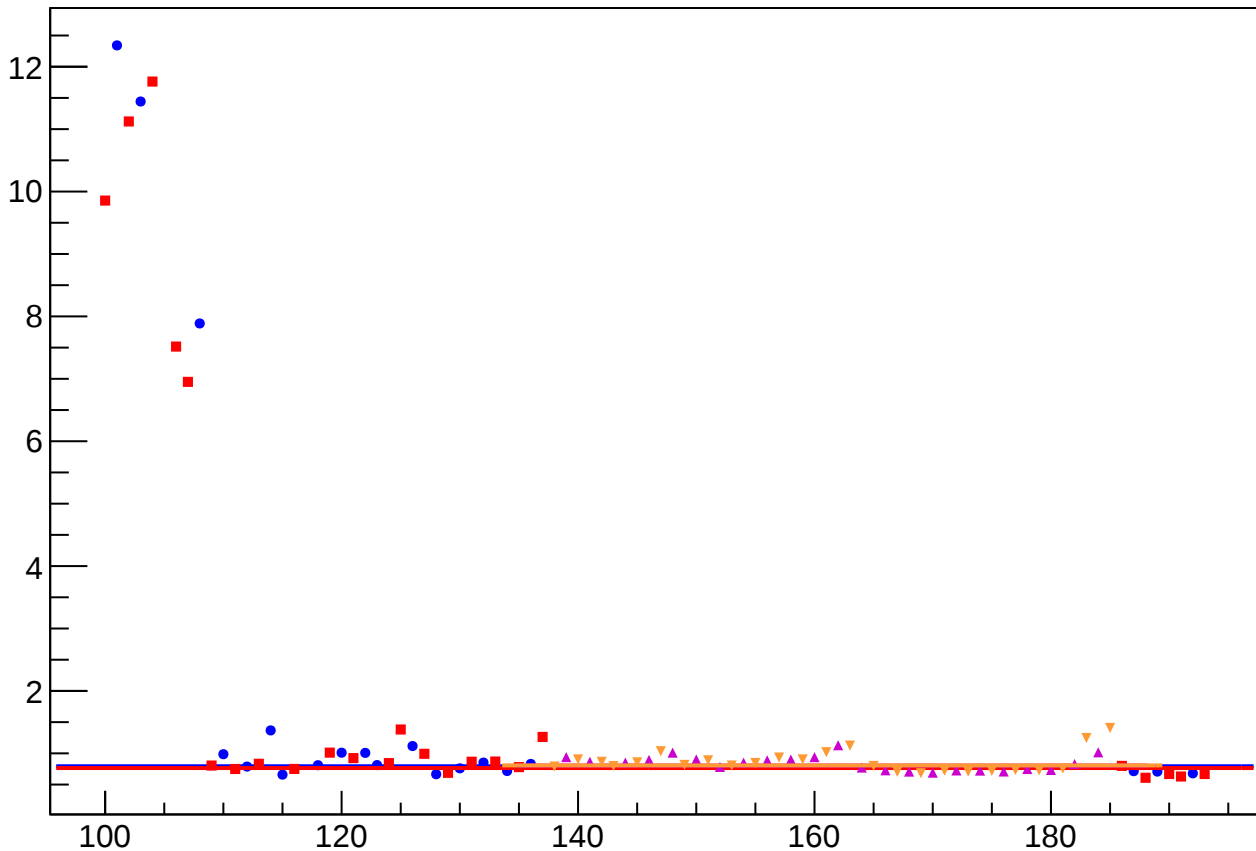
Right: 155.030 +/- 0.000 χ^2/NDF : 59722523759.3/43

In: 138.908 +/- 0.000 χ^2/NDF : 32512804971.1/42

Out: 140.866 +/- 0.000 χ^2/NDF : 41788638235.5/48

All: 139.936 +/- 0.000 χ^2/NDF : 74363748720.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.793+/-0.000 χ^2/NDF : 2756992.1/19

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.765+/-0.000 χ^2/NDF : 3122989.6/23

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

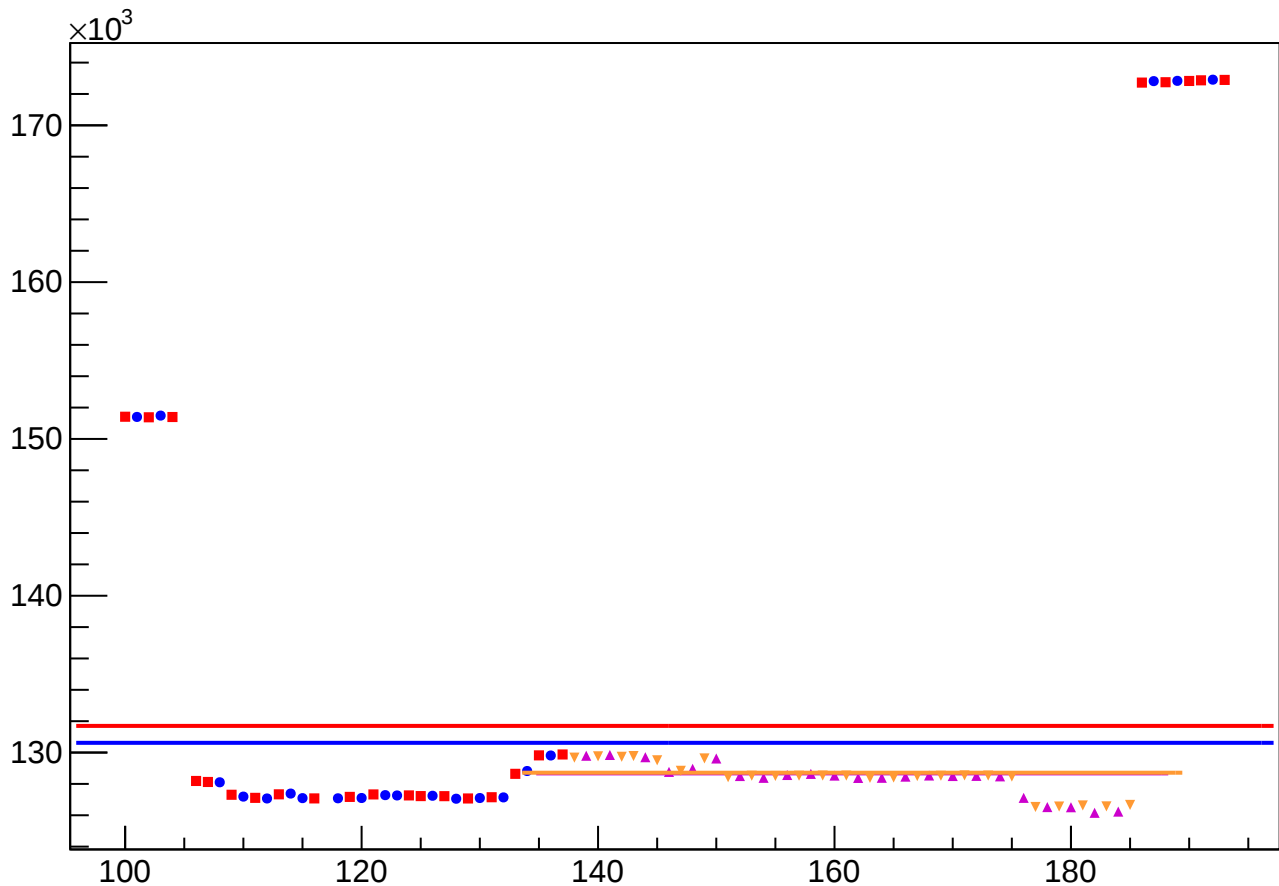
Right: 0.777+/-0.000 χ^2/NDF : 5887276.1/43

In: 0.802+/-0.000 χ^2/NDF : 3238276.6/42

Out: 0.794+/-0.000 χ^2/NDF : 3852973.1/48

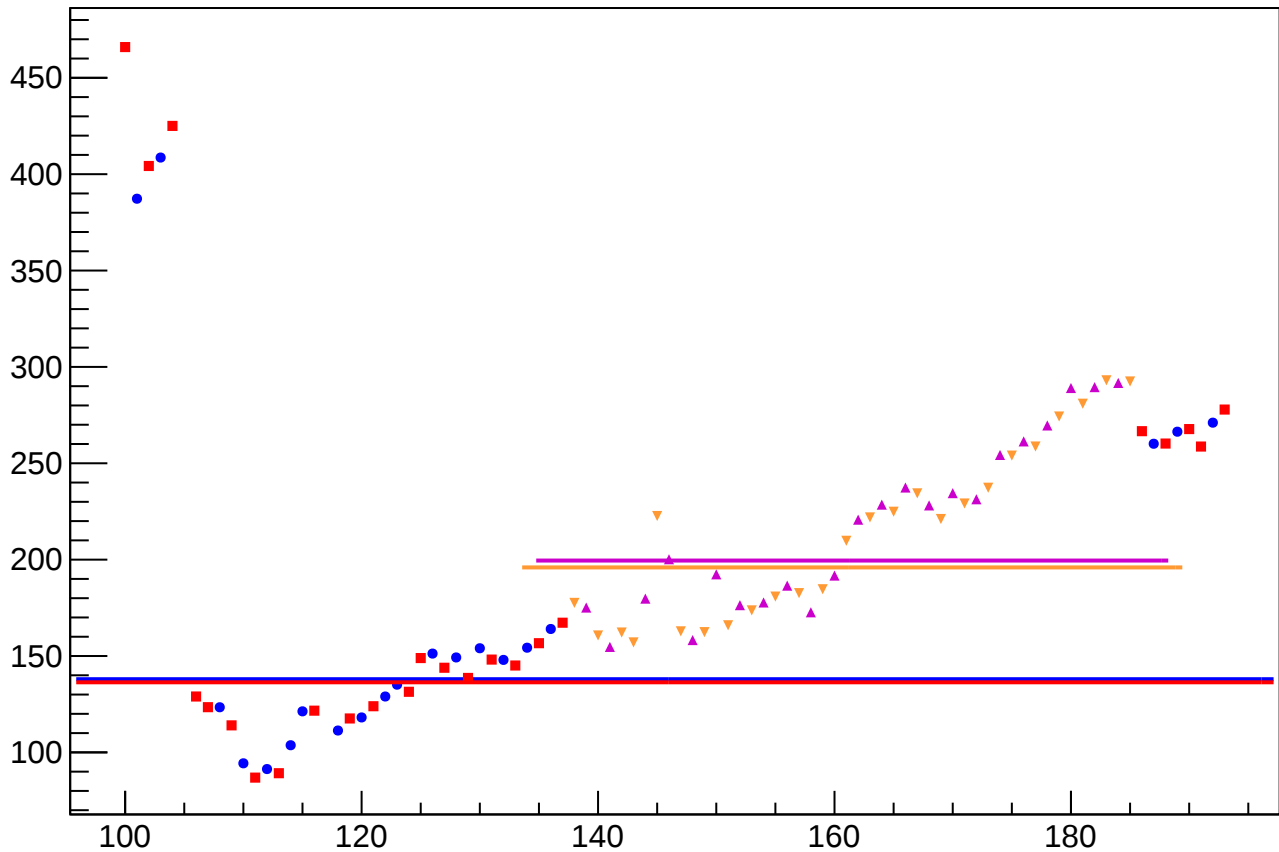
All: 0.797+/-0.000 χ^2/NDF : 7093219.1/91

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 130619.803 $\pm$ 0.053 χ^2 /NDF: 43291999994.8/19
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 131699.474 $\pm$ 0.048 χ^2 /NDF: 70447358822.7/23
 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: 131210.808 $\pm$ 0.036 χ^2 /NDF: 113966265424.5/24
 In: 129564.773 $\pm$ 0.036 χ^2 /NDF: 44358347720.9/47
 Out: 130157.286 $\pm$ 0.034 χ^2 /NDF: 72775923780.6/24
 All: 129881.430 $\pm$ 0.025 χ^2 /NDF: 117279667.0/24

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.968 $\pm$ 0.037 χ^2 /NDF: 2228460.7/19

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 136.360 $\pm$ 0.034 χ^2 /NDF: 2866338.1/23

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

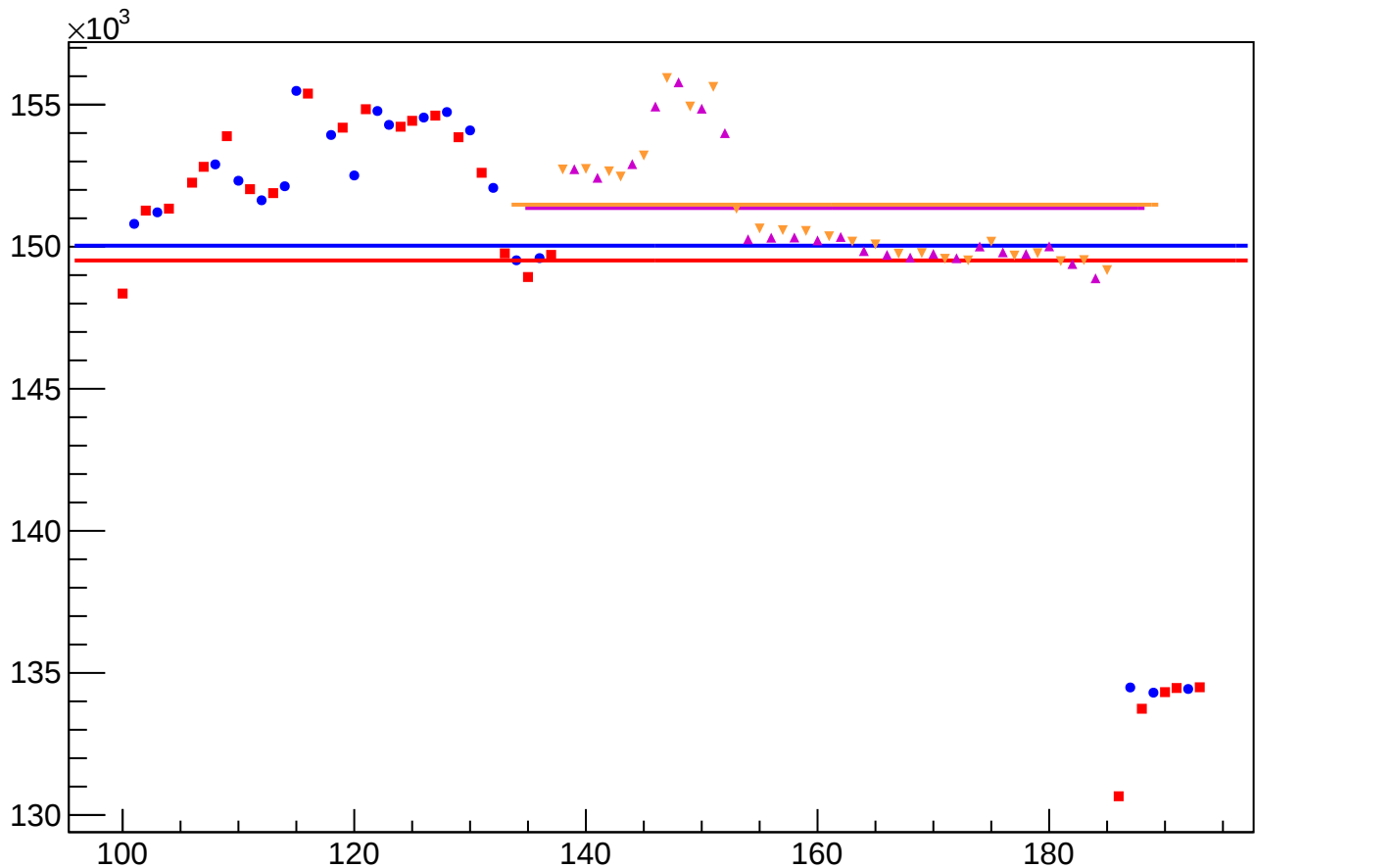
Right: 137.088 $\pm$ 0.025 χ^2 /NDF: 5095805.3/43

In: 171.281 $\pm$ 0.025 χ^2 /NDF:4862378.2/42

Out: 167.147 $\pm$ 0.024 χ^2 /NDF:5760815.9/48

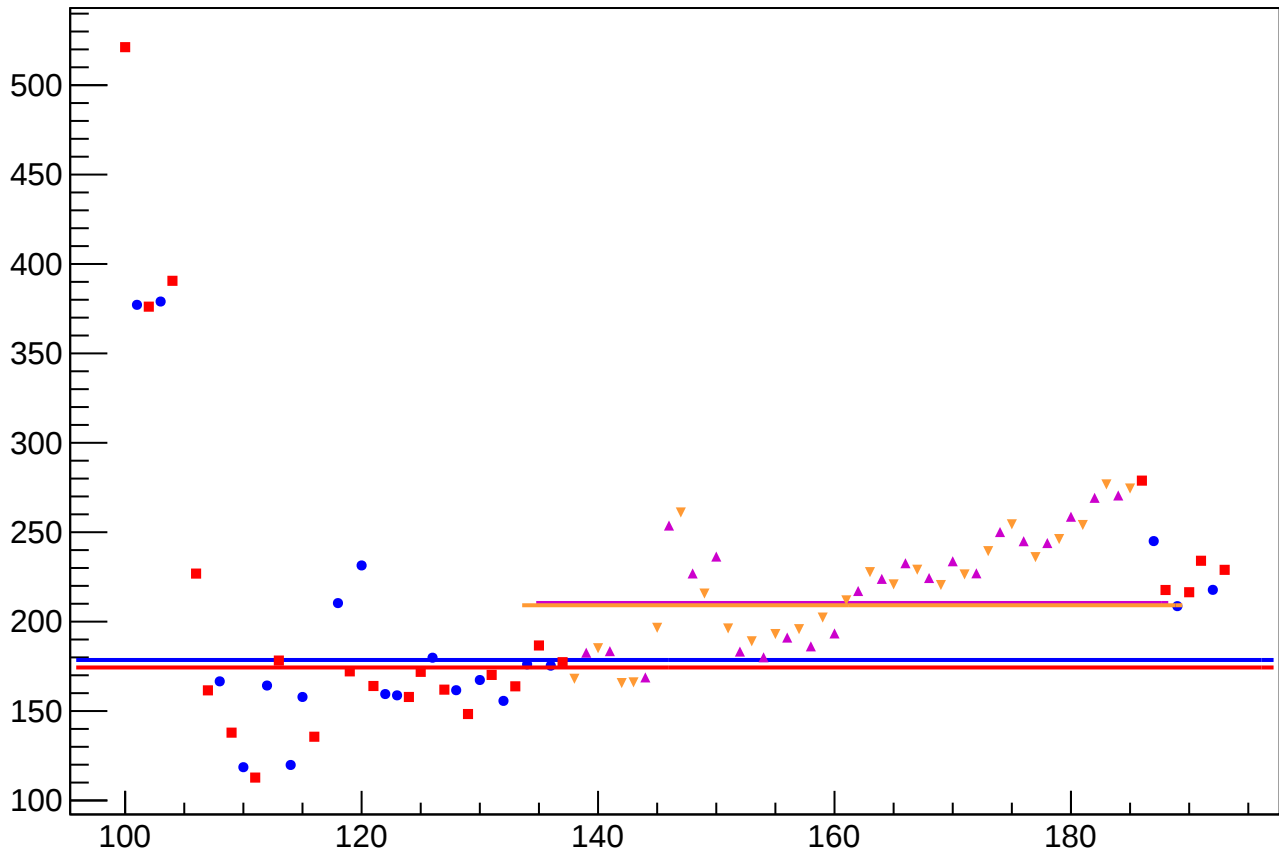
All: 169.072 $\pm$ 0.017 χ^2 /NDF: 10637350.2/92

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 150035.842 $\pm$ 0.067	χ^2 /NDF: 9546049292.6/19	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: 149747.837 $\pm$ 0.045	χ^2 /NDF: 24953244674.1/4
Right Out: 149516.527 $\pm$ 0.060	χ^2 /NDF: 15373954311.7/23	In: 150873.791 $\pm$ 0.041	χ^2 /NDF: 11219891395.8/4
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: 150687.362 $\pm$ 0.038	χ^2 /NDF: 17493920516.1/4
		All: 150774.649 $\pm$ 0.028	χ^2 /NDF: 287249639.1/4

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 178.558+/-0.047 χ^2/NDF : 1038624.5/19

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 174.360+/-0.043 χ^2/NDF : 1406500.8/23

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

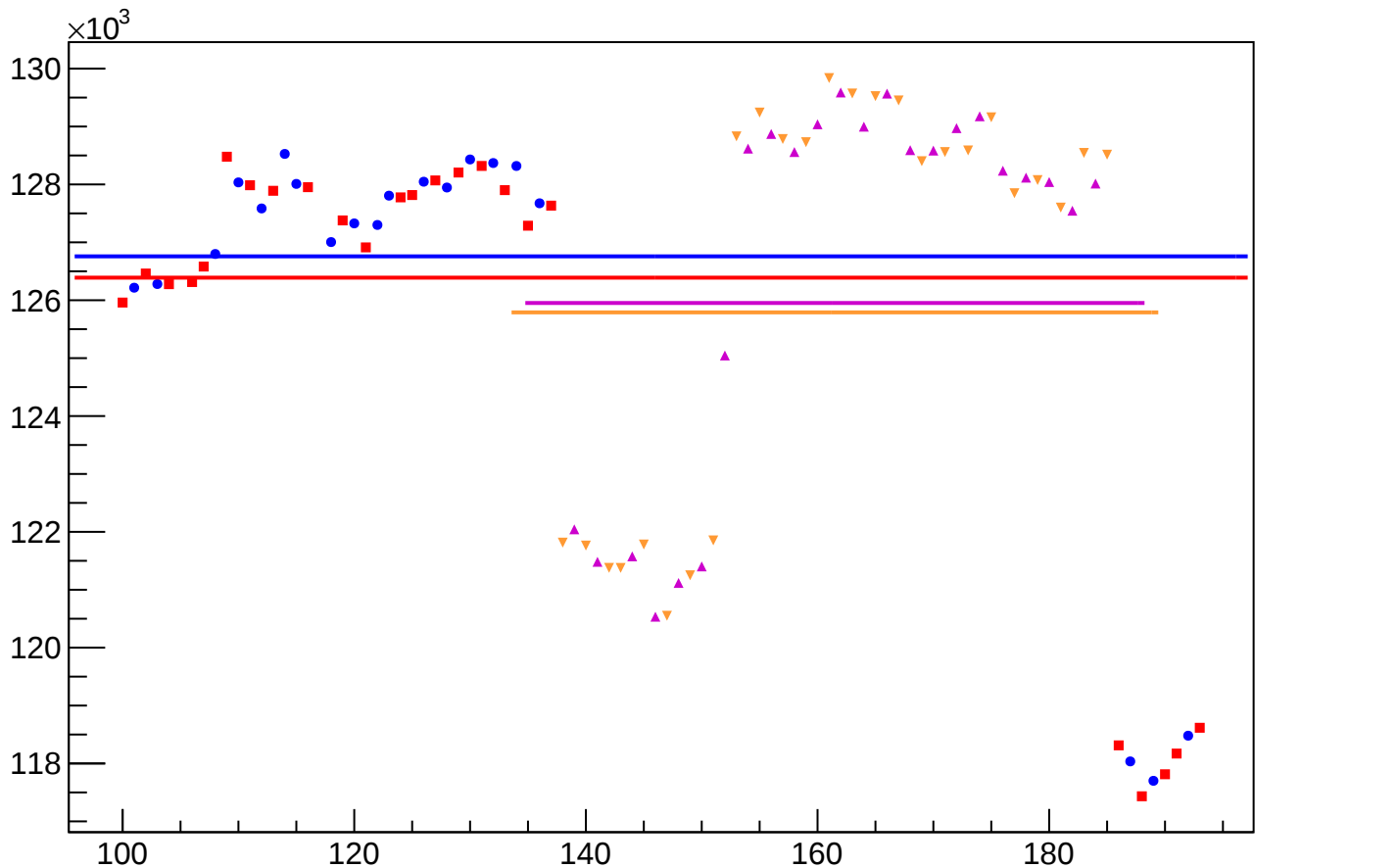
Right: 176.230+/-0.032 χ^2/NDF : 2449469.2/43

In: 198.690+/-0.029 χ^2/NDF : 2007865.7/42

Out: 195.105+/-0.027 χ^2/NDF : 2516097.2/48

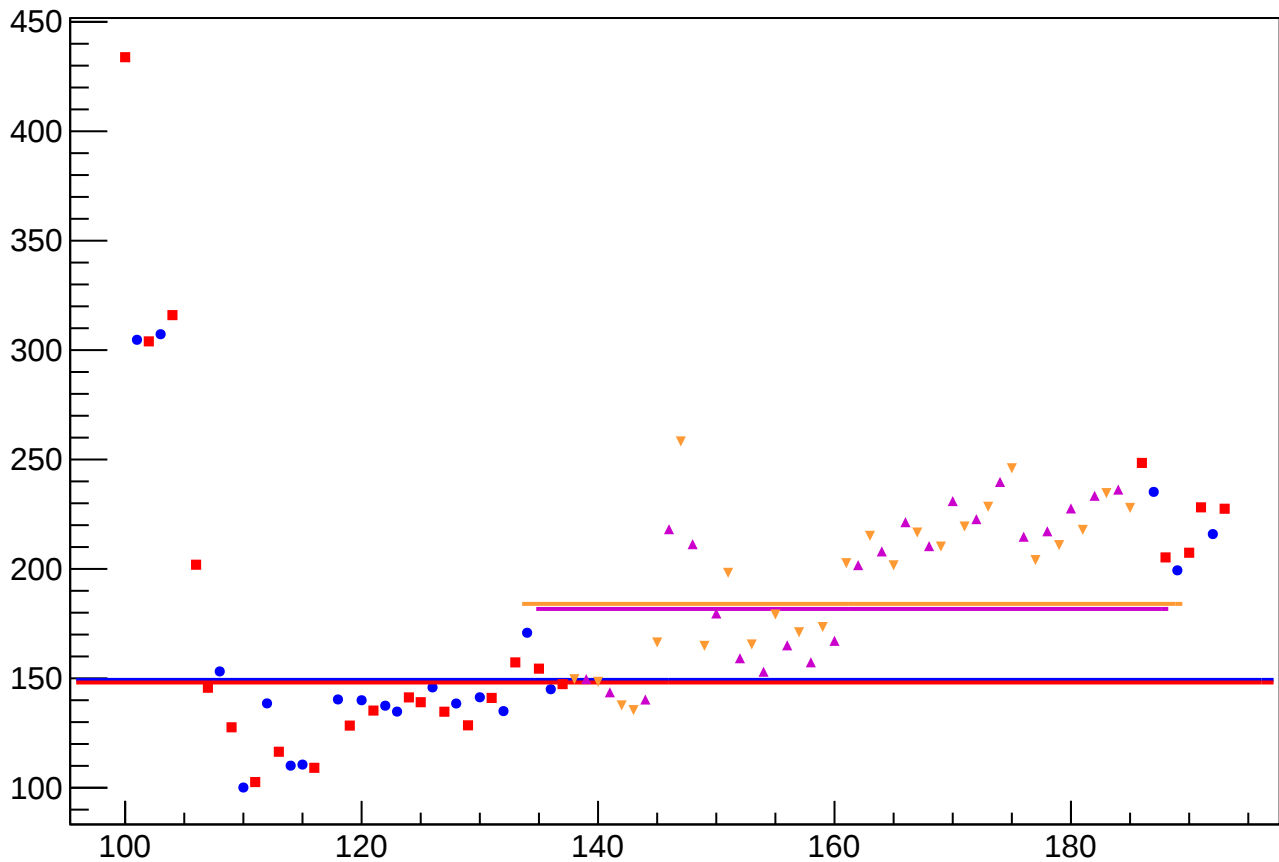
All: 196.784+/-0.020 χ^2/NDF : 4532210.6/91

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 126757.877 $\pm$ 0.055	χ^2 /NDF: 2775715937.9/19	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/24
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 126557.598 $\pm$ 0.037	χ^2 /NDF: 7305057033.4/24
Right Out: 126389.959 $\pm$ 0.051	χ^2 /NDF: 4505328242.4/23	In: 126269.752 $\pm$ 0.035	χ^2 /NDF: 8745635938.0/42
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 126047.669 $\pm$ 0.033	χ^2 /NDF: 11329574531.7/24
		All: 126153.614 $\pm$ 0.024	χ^2 /NDF: 200965456/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 149.290 $\pm$ 0.039 χ^2 /NDF: 1129642.9/19

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 148.105 $\pm$ 0.036 χ^2 /NDF: 1587863.8/23

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

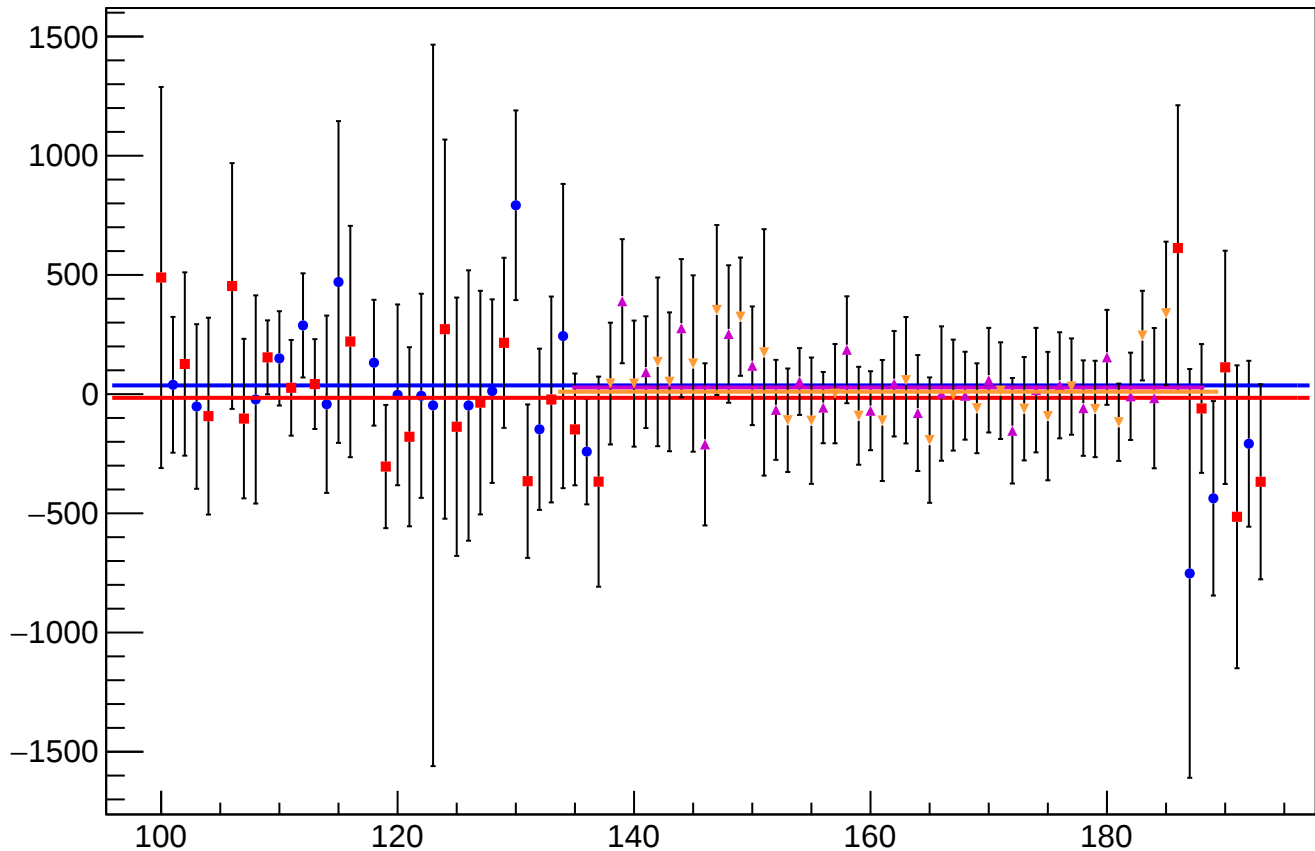
Right: 148.645 $\pm$ 0.026 χ^2 /NDF: 2718005.2/43

In: 168.940 $\pm$ 0.025 χ^2 /NDF: 2661037.0/42

Out: 168.605 $\pm$ 0.023 χ^2 /NDF: 3287897.8/48

All: 168.765 $\pm$ 0.017 χ^2 /NDF: 5949032.3/91

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 36.546 $\pm$ 76.128 χ^2 /NDF: 10.7/19

Left Out: 10.078 $\pm$ 47.488 χ^2 /NDF:8.5/24

Right Out: -15.517 $\pm$ 65.574 χ^2 /NDF: 9.8/23

Left In: 28.050 $\pm$ 44.573 χ^2 /NDF:7.0/22

Left: 19.632 $\pm$ 32.499 χ^2 /NDF: 15.5/47

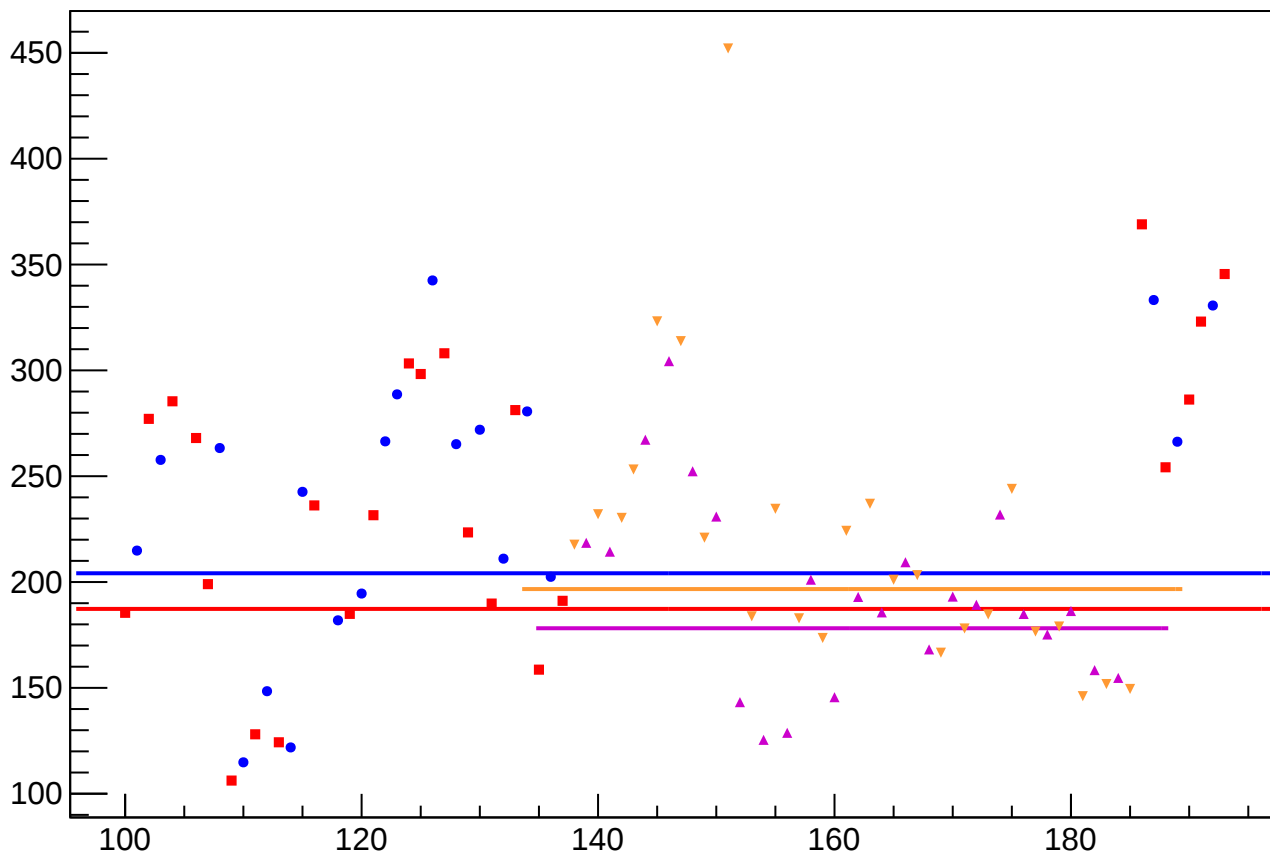
Right: 6.658 $\pm$ 49.684 χ^2 /NDF: 20.7/43

In: 30.219 $\pm$ 38.465 χ^2 /NDF:17.6/42

Out: 1.273 $\pm$ 38.462 χ^2 /NDF:18.3/48

All: 15.744 $\pm$ 27.198 χ^2 /NDF: 36.2/91

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 204.142 $\pm$ 0.054 χ^2 /NDF: 1407458.4/19

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 187.306 $\pm$ 0.046 χ^2 /NDF: 2448818.8/23

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

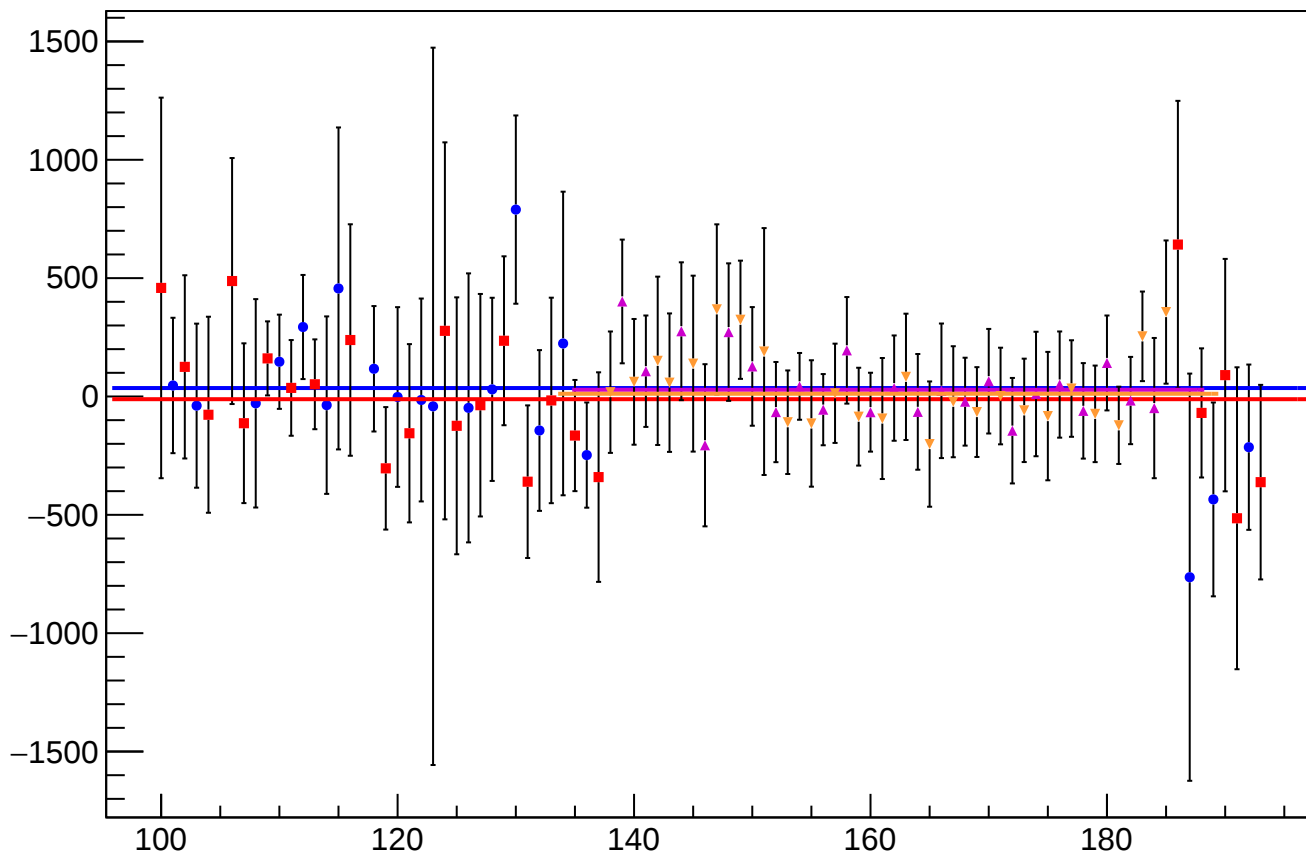
Right: 194.477 $\pm$ 0.035 χ^2 /NDF: 3912426.8/43

In: 184.797 $\pm$ 0.027 χ^2 /NDF:3199836.6/42

Out: 193.456 $\pm$ 0.027 χ^2 /NDF:4258351.6/48

All: 189.127 $\pm$ 0.019 χ^2 /NDF: 7508872.1/91

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 35.674 $\pm$ 76.492 χ^2 /NDF: 10.6/19

Left Out: 11.479 $\pm$ 47.819 χ^2 /NDF:8.8/24

Right Out: -11.453 $\pm$ 65.940 χ^2 /NDF: 10.0/23

Left In: 28.280 $\pm$ 44.863 χ^2 /NDF:7.1/22

Left: 20.415 $\pm$ 32.718 χ^2 /NDF: 16.0/47

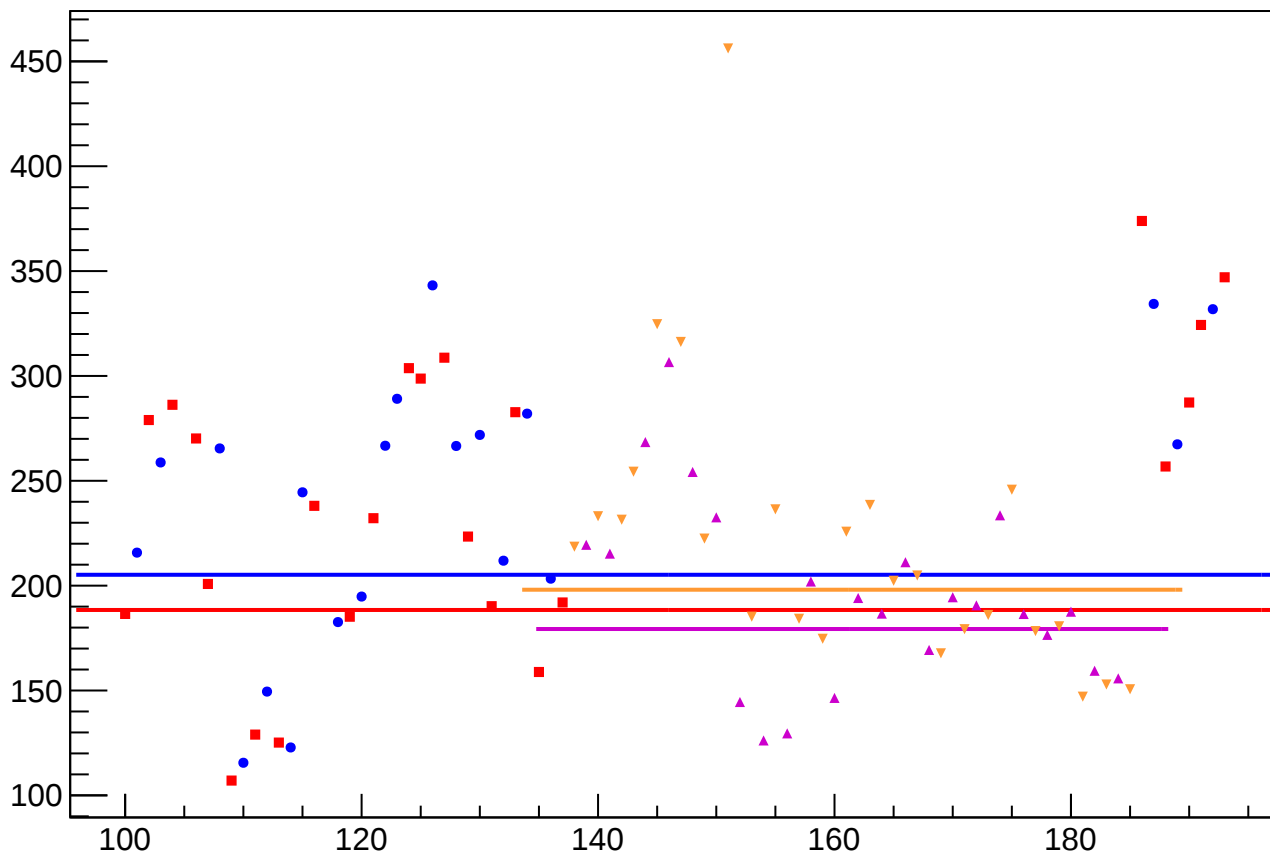
Right: 8.638 $\pm$ 49.944 χ^2 /NDF: 20.8/43

In: 30.172 $\pm$ 38.698 χ^2 /NDF:17.7/42

Out: 3.575 $\pm$ 38.711 χ^2 /NDF:18.9/48

All: 16.878 $\pm$ 27.369 χ^2 /NDF: 36.8/91

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 205.187 $\pm$ 0.054 χ^2 /NDF: 1396988.4/19

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 188.402 $\pm$ 0.047 χ^2 /NDF: 2440684.1/23

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

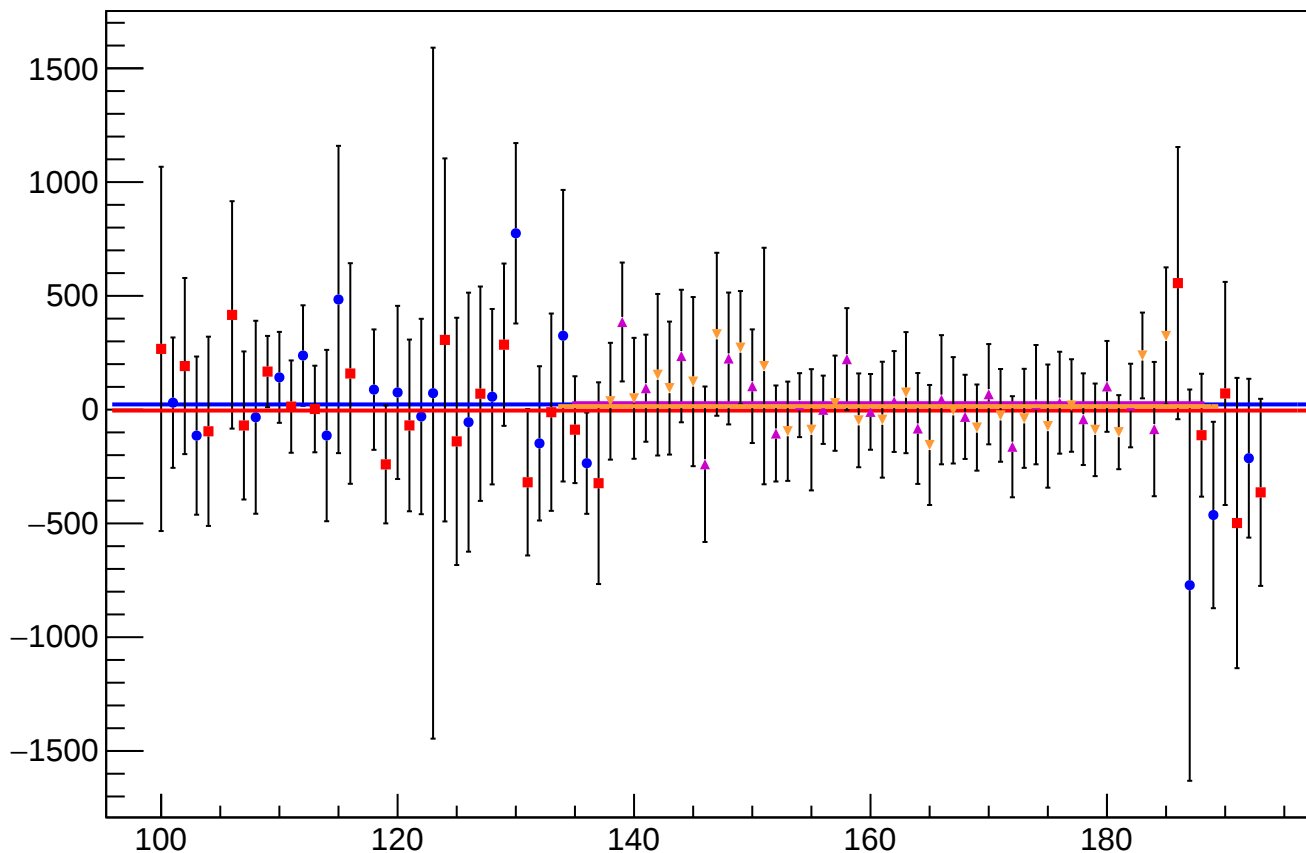
Right: 195.558 $\pm$ 0.035 χ^2 /NDF: 3892914.0/43

In: 185.943 $\pm$ 0.027 χ^2 /NDF:3185371.4/42

Out: 194.731 $\pm$ 0.027 χ^2 /NDF:4247319.5/48

All: 190.336 $\pm$ 0.019 χ^2 /NDF: 7484237.0/91

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 22.894 $\pm$ 76.487 χ^2 /NDF: 10.3/19

Left Out: 15.437 $\pm$ 47.695 χ^2 /NDF:7.0/24

Right Out: -3.962 $\pm$ 65.823 χ^2 /NDF: 8.3/23

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

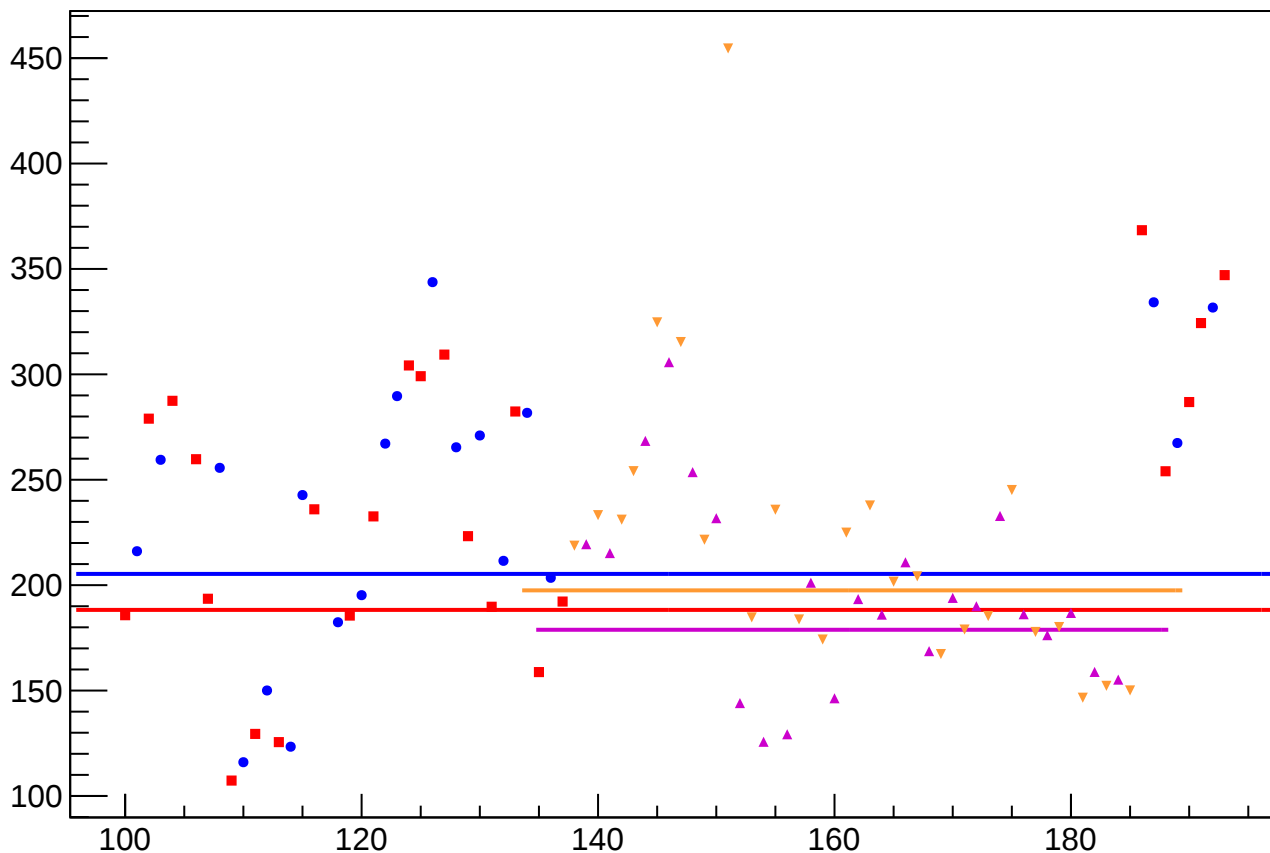
Right: 7.465 $\pm$ 49.892 χ^2 /NDF: 18.7/43

In: 26.904 $\pm$ 38.621 χ^2 /NDF:16.7/42

Out: 8.759 $\pm$ 38.622 χ^2 /NDF:15.3/48

All: 17.832 $\pm$ 27.309 χ^2 /NDF: 32.1/91

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 205.335 $\pm$ 0.054 χ^2/NDF : 1373516.5/19

Left Out: 197.527 $\pm$ 0.034 χ^2/NDF : 1784225.5/24

Right Out: 188.263 $\pm$ 0.047 χ^2/NDF : 2404404.2/23

Left In: 178.836 $\pm$ 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2/NDF : 3569877.1/47

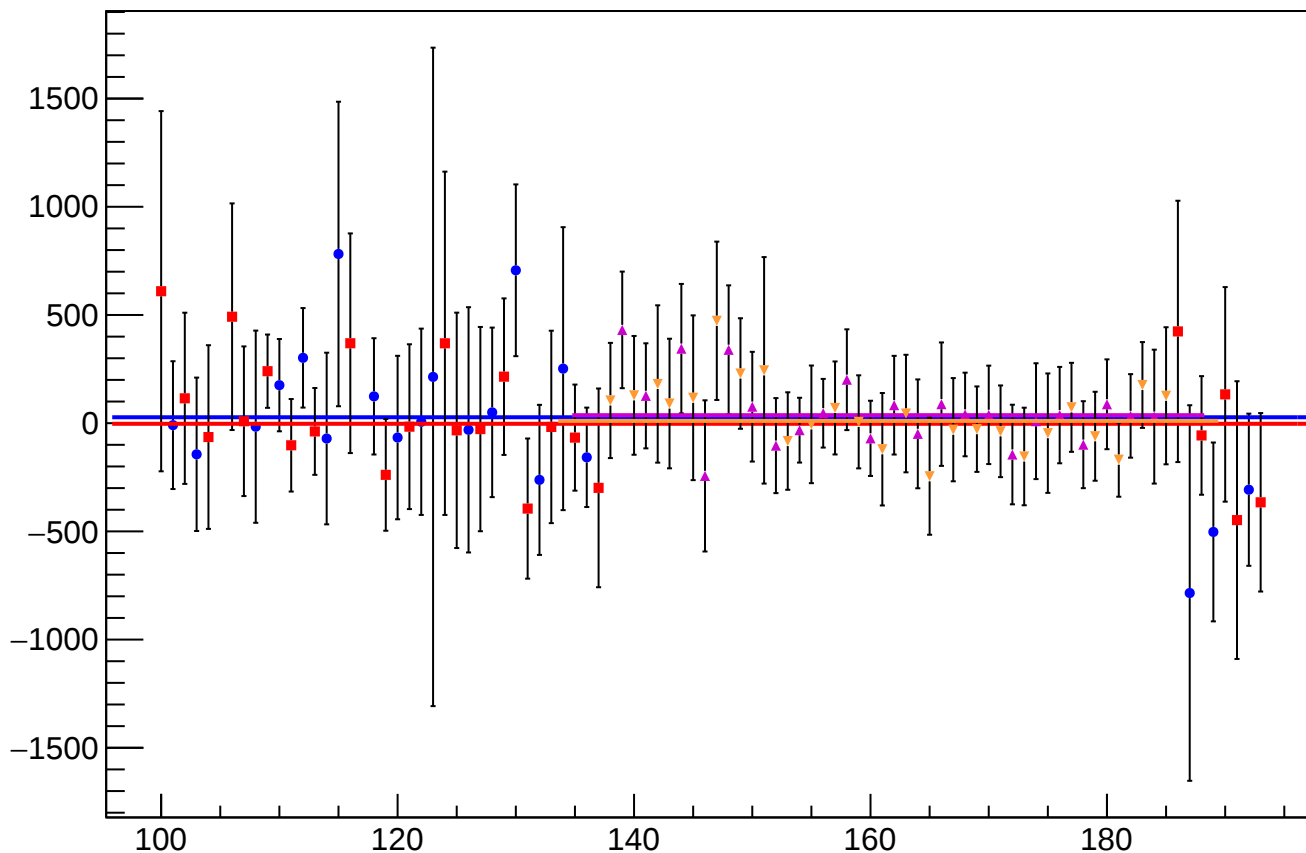
Right: 195.527 $\pm$ 0.035 χ^2/NDF : 3835161.0/43

In: 185.592 $\pm$ 0.027 χ^2/NDF : 3174634.5/42

Out: 194.338 $\pm$ 0.027 χ^2/NDF : 4214608.5/48

All: 189.965 $\pm$ 0.019 χ^2/NDF : 7440527.5/91

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 27.356+/-78.727 χ^2/NDF : 11.4/19

Left Out: 10.534+/-49.197 χ^2/NDF : 7.5/24

Right Out: -2.824+/-68.313 χ^2/NDF : 9.6/23

Left In: 37.000+/-46.358 χ^2/NDF : 7.9/22

Left: 24.553+/-33.739 χ^2/NDF : 15.5/47

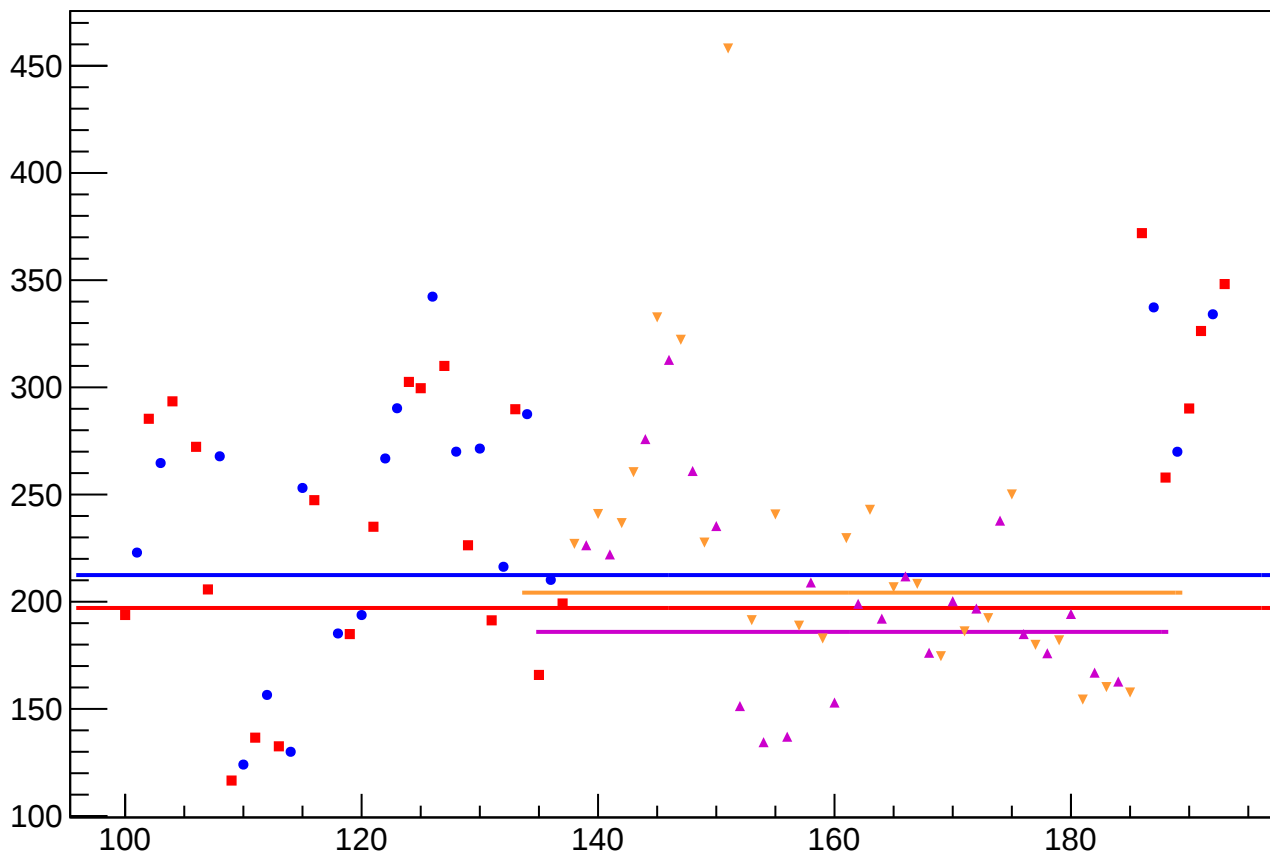
Right: 10.139+/-51.597 χ^2/NDF : 21.1/43

In: 34.517+/-39.947 χ^2/NDF : 19.3/42

Out: 5.972+/-39.922 χ^2/NDF : 17.1/48

All: 20.236+/-28.238 χ^2/NDF : 36.7/91

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 212.433+/-0.056 χ^2/NDF : 1233743.9/19

Left Out: 204.236+/-0.035 χ^2/NDF : 1675666.0/24

Right Out: 197.086+/-0.048 χ^2/NDF : 2148582.0/23

Left In: 185.931+/-0.033 χ^2/NDF : 1460065.0/22

Left: 194.540+/-0.024 χ^2/NDF : 3282383.3/47

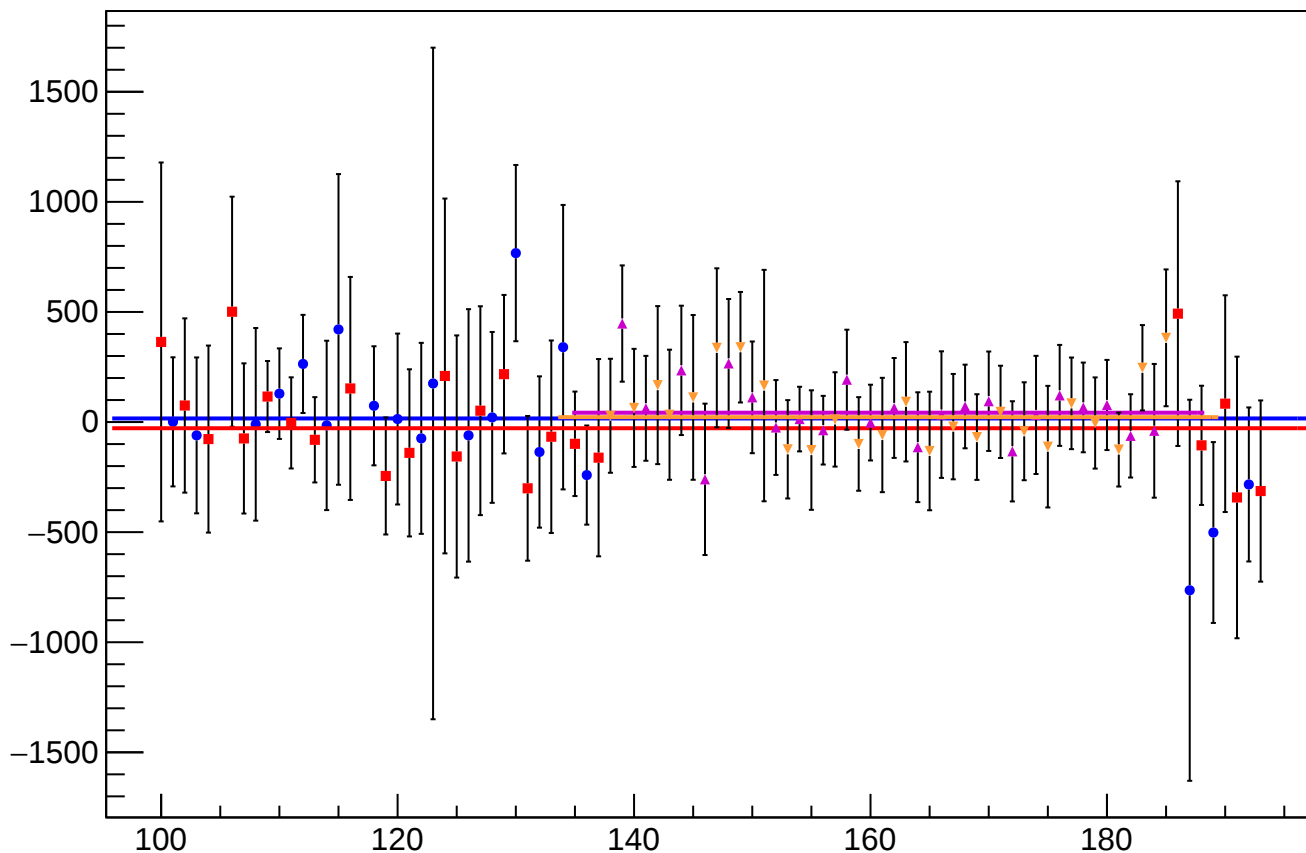
Right: 203.678+/-0.036 χ^2/NDF : 3425682.0/43

In: 192.755+/-0.028 χ^2/NDF : 2862094.2/42

Out: 201.794+/-0.028 χ^2/NDF : 3838673.4/48

All: 197.277+/-0.020 χ^2/NDF : 6752007.4/91

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 16.345 $\pm$ 77.754 χ^2 /NDF: 10.5/19

Left Out: 22.189 $\pm$ 48.738 χ^2 /NDF:8.4/24

Right Out: -28.084 $\pm$ 67.077 χ^2 /NDF: 6.2/23

Left In: 42.446 $\pm$ 45.861 χ^2 /NDF:6.7/22

Left: 32.933 $\pm$ 33.399 χ^2 /NDF: 15.2/47

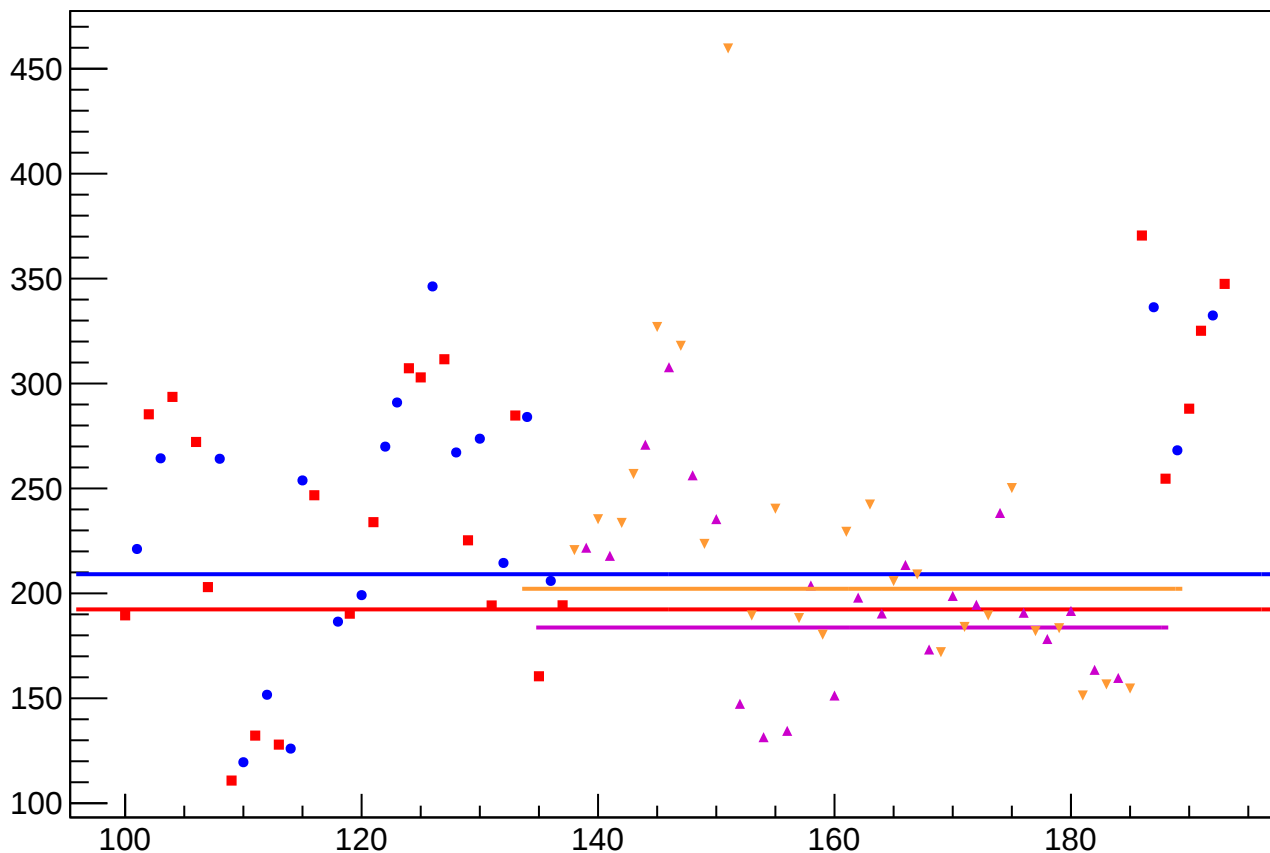
Right: -9.127 $\pm$ 50.789 χ^2 /NDF: 16.9/43

In: 35.710 $\pm$ 39.502 χ^2 /NDF:17.3/42

Out: 4.818 $\pm$ 39.429 χ^2 /NDF:15.0/48

All: 20.235 $\pm$ 27.906 χ^2 /NDF: 32.6/91

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 209.130 $\pm$ 0.055 χ^2/NDF : 1329976.1/19

Left Out: 202.186 $\pm$ 0.034 χ^2/NDF : 1696571.9/24

Right Out: 192.365 $\pm$ 0.047 χ^2/NDF : 2338742.5/23

Left In: 183.732 $\pm$ 0.032 χ^2/NDF : 1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2/NDF : 3344580.1/47

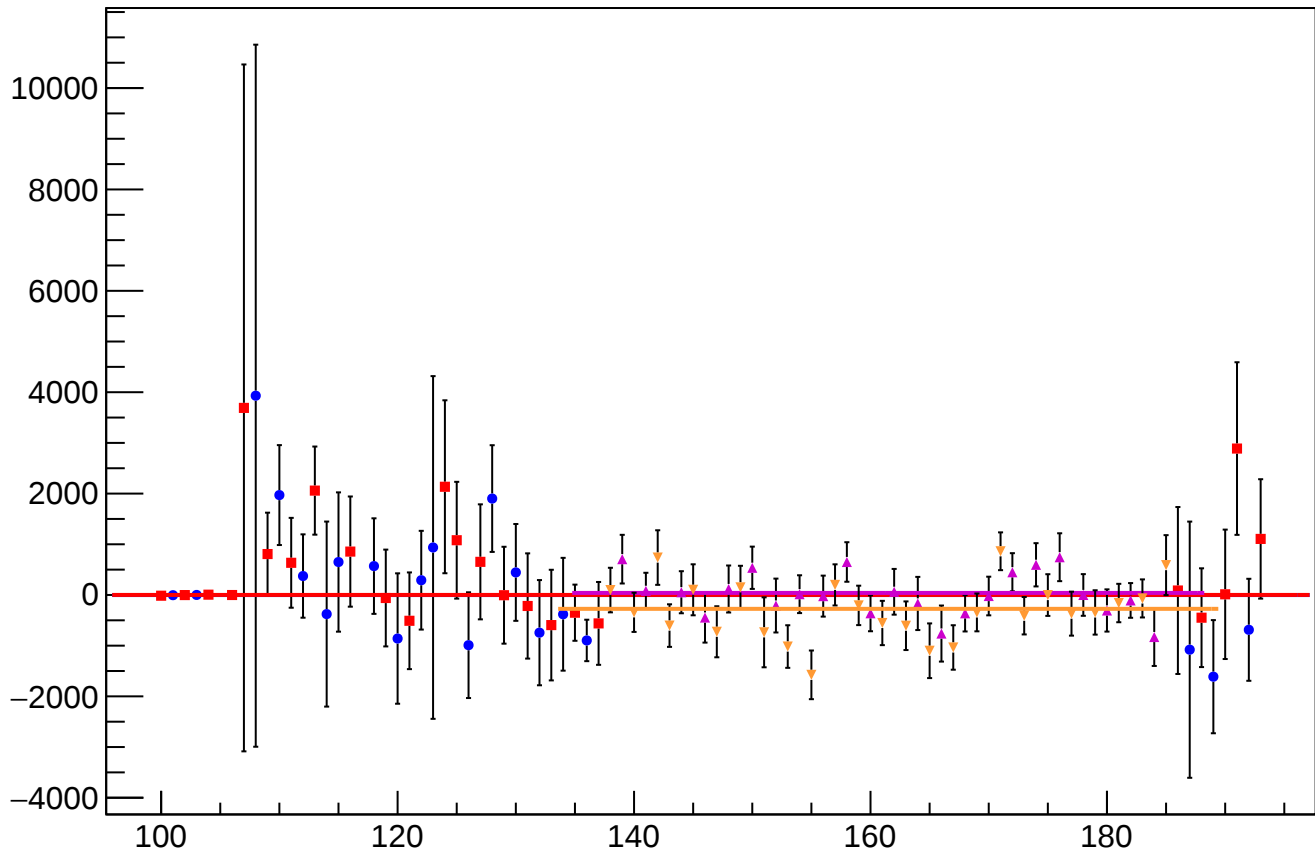
Right: 199.518 $\pm$ 0.036 χ^2/NDF : 3722025.8/43

In: 190.287 $\pm$ 0.028 χ^2/NDF : 2984220.6/42

Out: 198.793 $\pm$ 0.028 χ^2/NDF : 4063375.4/48

All: 194.548 $\pm$ 0.020 χ^2/NDF : 7094043.6/91

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.539 ± 2.251 χ^2/NDF : 19.6/19

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.737 ± 2.111 χ^2/NDF : 22.2/23

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

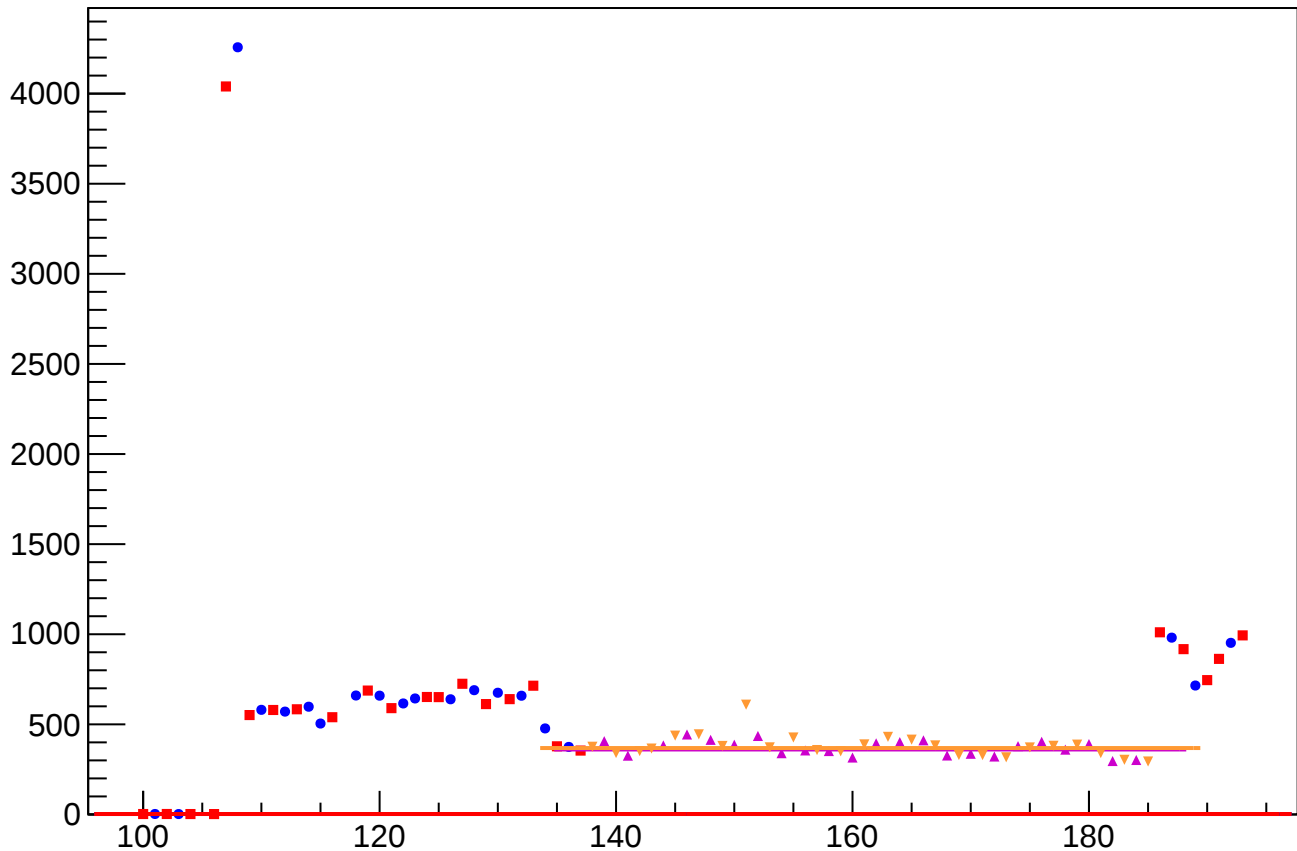
Right: -0.328 ± 1.540 χ^2/NDF : 42.4/43

In: -1.512 ± 2.251 χ^2/NDF : 40.0/42

Out: 0.575 ± 2.110 χ^2/NDF : 70.5/48

All: -0.401 ± 1.540 χ^2/NDF : 111.0/91

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.464+/-0.002 χ^2/NDF : 13565549.8/19

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.449+/-0.001 χ^2/NDF : 16213578.6/23

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

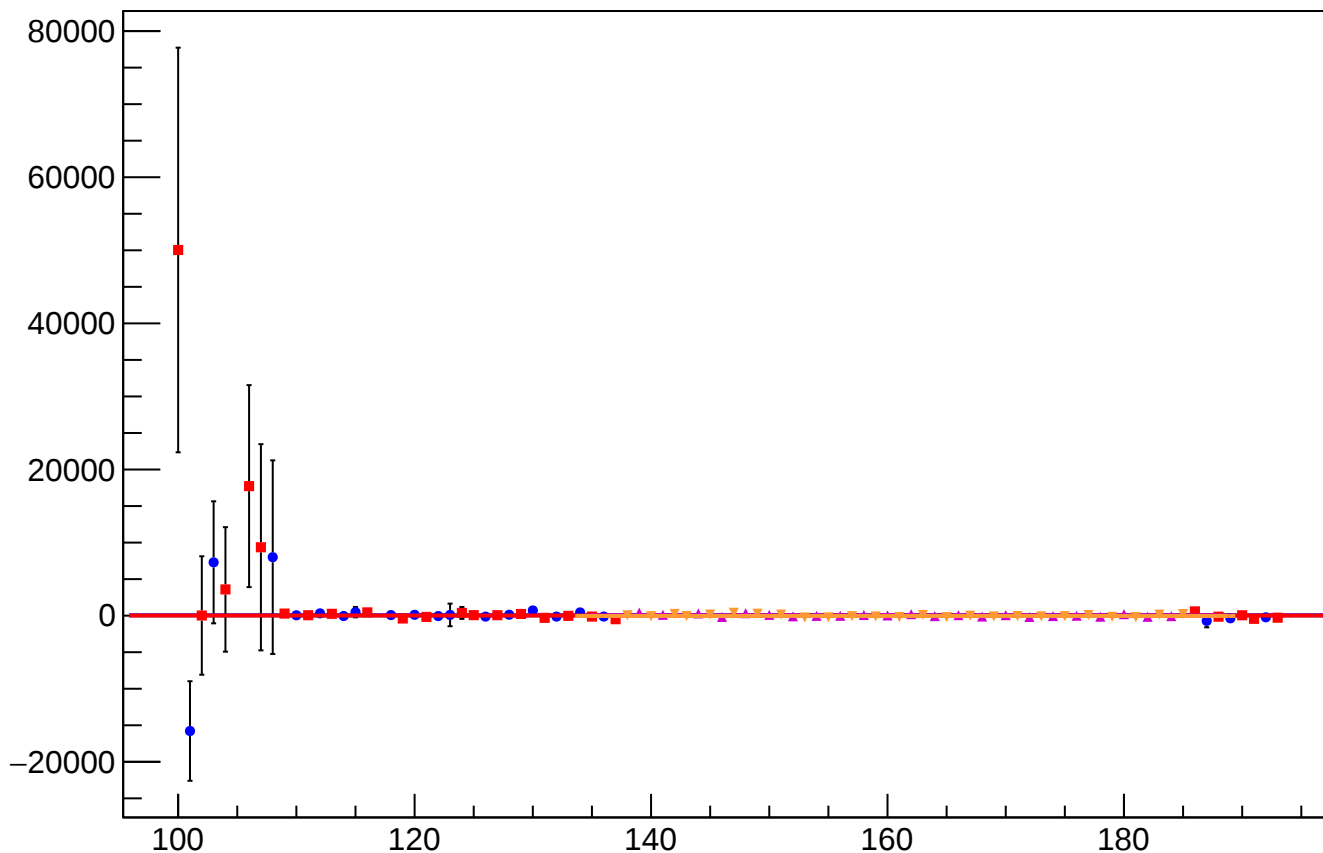
Right: 2.456+/-0.001 χ^2/NDF : 29779177.7/43

In: 2.701+/-0.002 χ^2/NDF : 47487972.3/42

Out: 2.665+/-0.001 χ^2/NDF : 52328094.7/48

All: 2.682+/-0.001 χ^2/NDF : 99816344.7/91

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 53.141 $\pm$ 86.788 χ^2 /NDF: 14.6/19

Left Out: -39.036 $\pm$ 49.576 χ^2 /NDF: 9.1/24

Right Out: 16.751 $\pm$ 77.296 χ^2 /NDF: 16.3/23

Left In: 28.062 $\pm$ 48.032 χ^2 /NDF: 9.6/22

Left: -4.426 $\pm$ 34.497 χ^2 /NDF: 19.7/47

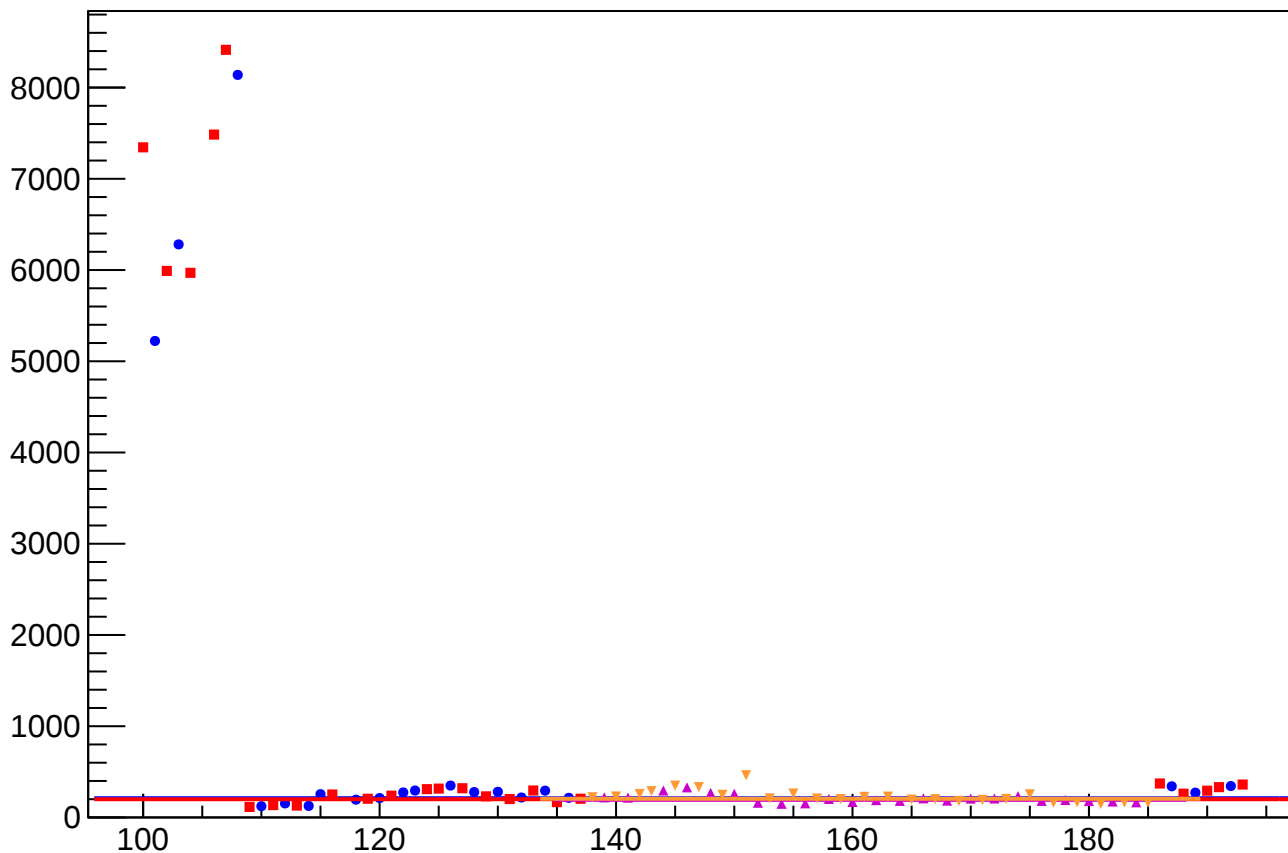
Right: 32.848 $\pm$ 57.722 χ^2 /NDF: 31.0/43

In: 33.942 $\pm$ 42.025 χ^2 /NDF: 24.2/42

Out: -22.776 $\pm$ 41.730 χ^2 /NDF: 25.8/48

All: 5.384 $\pm$ 29.611 χ^2 /NDF: 51.0/91

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 210.703 $\pm$ 0.061 χ^2 /NDF: 4099506.8/19

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF: 1957484.4/24

Right Out: 199.982 $\pm$ 0.055 χ^2 /NDF: 5123241.8/23

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF: 1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

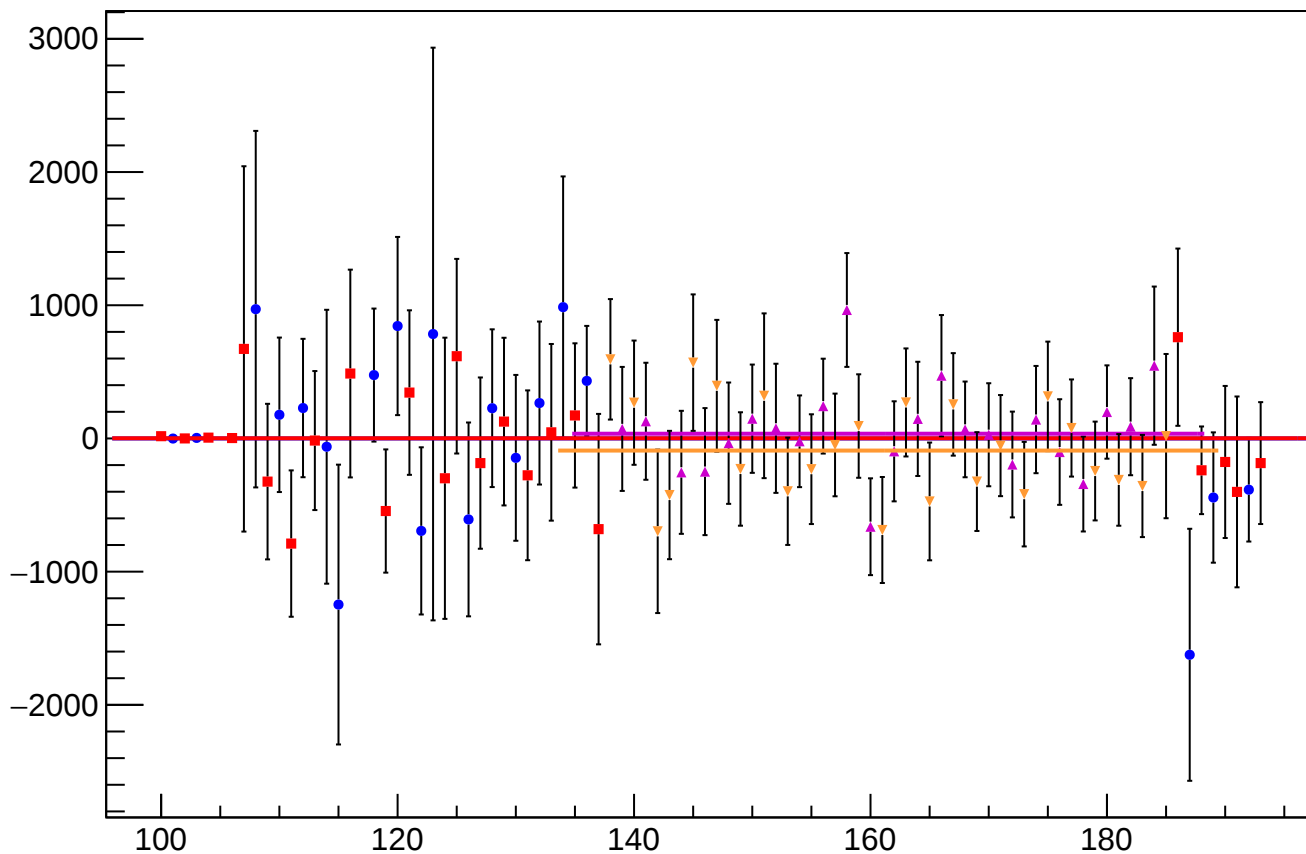
Right: 204.724 $\pm$ 0.041 χ^2 /NDF: 9239768.0/43

In: 197.623 $\pm$ 0.030 χ^2 /NDF: 5338324.1/42

Out: 203.618 $\pm$ 0.030 χ^2 /NDF: 7086972.3/48

All: 200.641 $\pm$ 0.021 χ^2 /NDF: 12445792.5/91

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.159 ± 1.737 χ^2/NDF : 14.9/19

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.316 ± 1.623 χ^2/NDF : 11.7/23

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

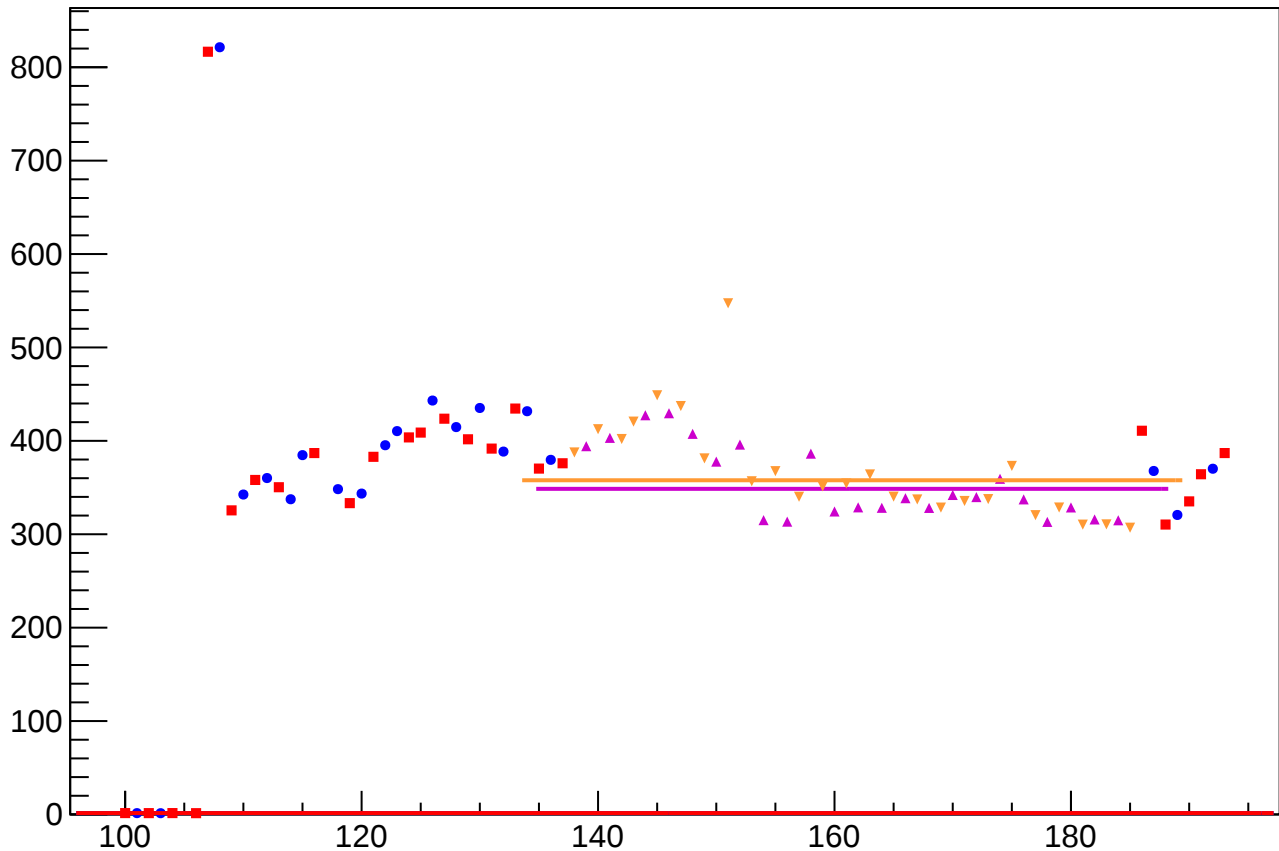
Right: 0.628 ± 1.186 χ^2/NDF : 26.9/43

In: -0.144 ± 1.736 χ^2/NDF : 28.5/42

Out: 1.281 ± 1.622 χ^2/NDF : 29.3/48

All: 0.617 ± 1.185 χ^2/NDF : 58.2/91

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.465 $\pm$ 0.001 χ^2 /NDF: 13718682.5/19

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.470 $\pm$ 0.001 χ^2 /NDF: 15968383.0/23

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

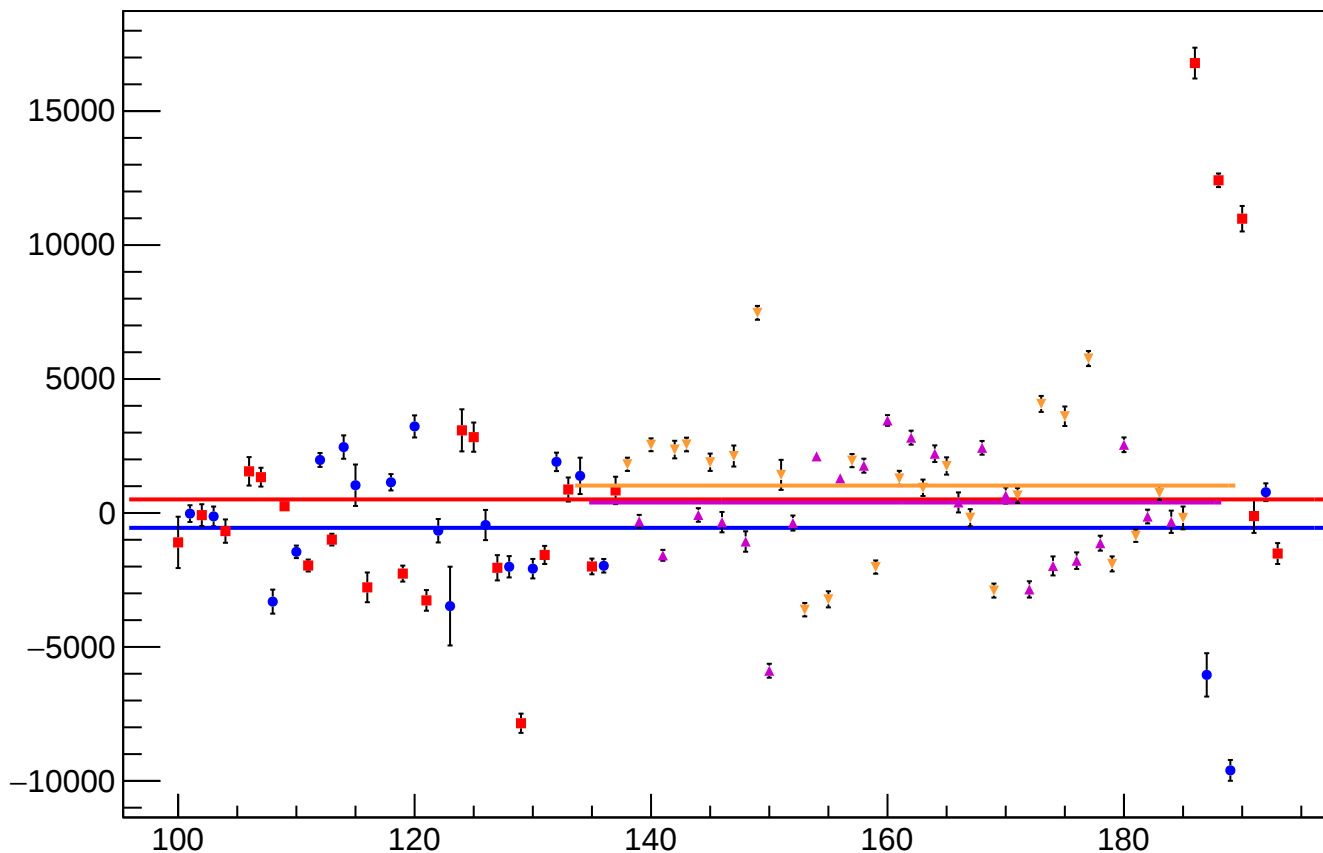
Right: 1.468 $\pm$ 0.001 χ^2 /NDF: 29687076.8/43

In: 1.612 $\pm$ 0.001 χ^2 /NDF: 47916355.5/42

Out: 1.603 $\pm$ 0.001 χ^2 /NDF: 52425143.1/48

All: 1.607 $\pm$ 0.001 χ^2 /NDF: 100341525.1/91

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -555.084+/-82.919 χ^2/NDF : 1049.5/19

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 506.633+/-71.712 χ^2/NDF : 4632.9/23

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

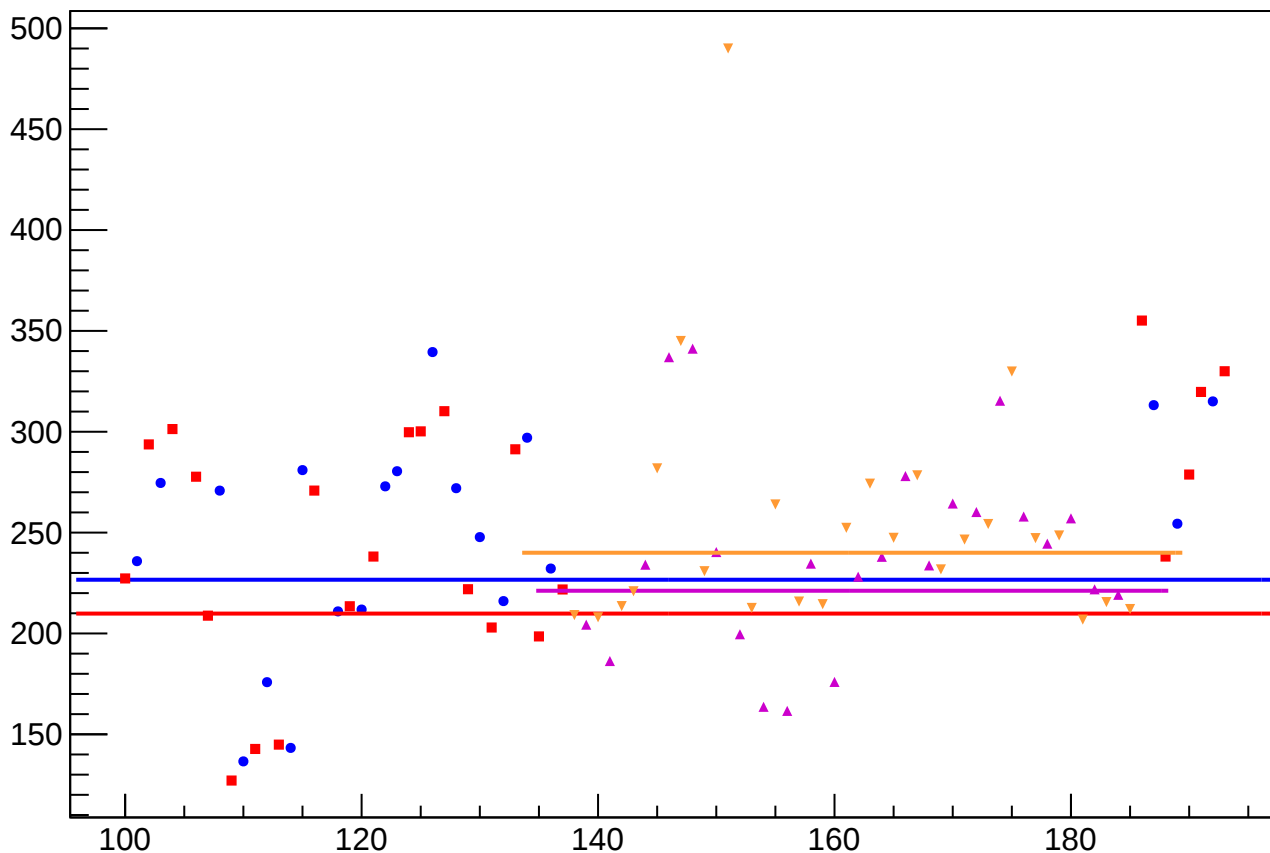
Right: 52.323+/-54.241 χ^2/NDF : 5776.1/43

In: 101.908+/-45.794 χ^2/NDF : 2724.7/42

Out: 821.894+/-44.783 χ^2/NDF : 6973.9/48

All: 469.936+/-32.018 χ^2/NDF : 9824.9/91

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 226.634 ± 0.059 $\chi^2/\text{NDF}: 856874.4/19$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 209.854 ± 0.051 $\chi^2/\text{NDF}: 1695976.9/23$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

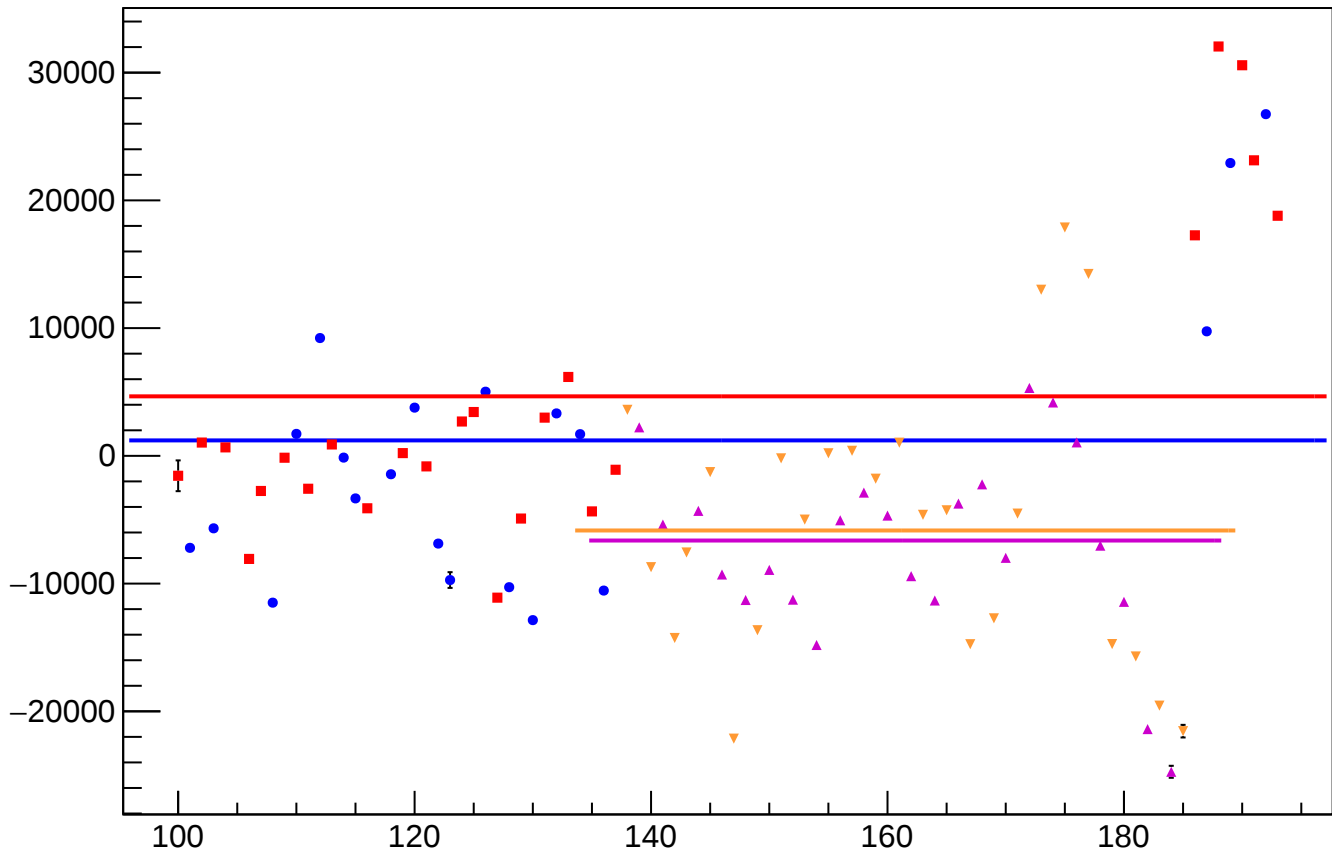
Right: 217.034 ± 0.038 $\chi^2/\text{NDF}: 2599708.6/43$

In: 222.838 ± 0.032 $\chi^2/\text{NDF}: 2205420.9/42$

Out: 228.255 ± 0.032 $\chi^2/\text{NDF}: 2914285.5/48$

All: 225.607 ± 0.023 $\chi^2/\text{NDF}: 5134010.0/91$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 1209.350+/-44.771 χ^2/NDF : 69865.6/19

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 4658.561+/-40.746 χ^2/NDF : 89421.2/23

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

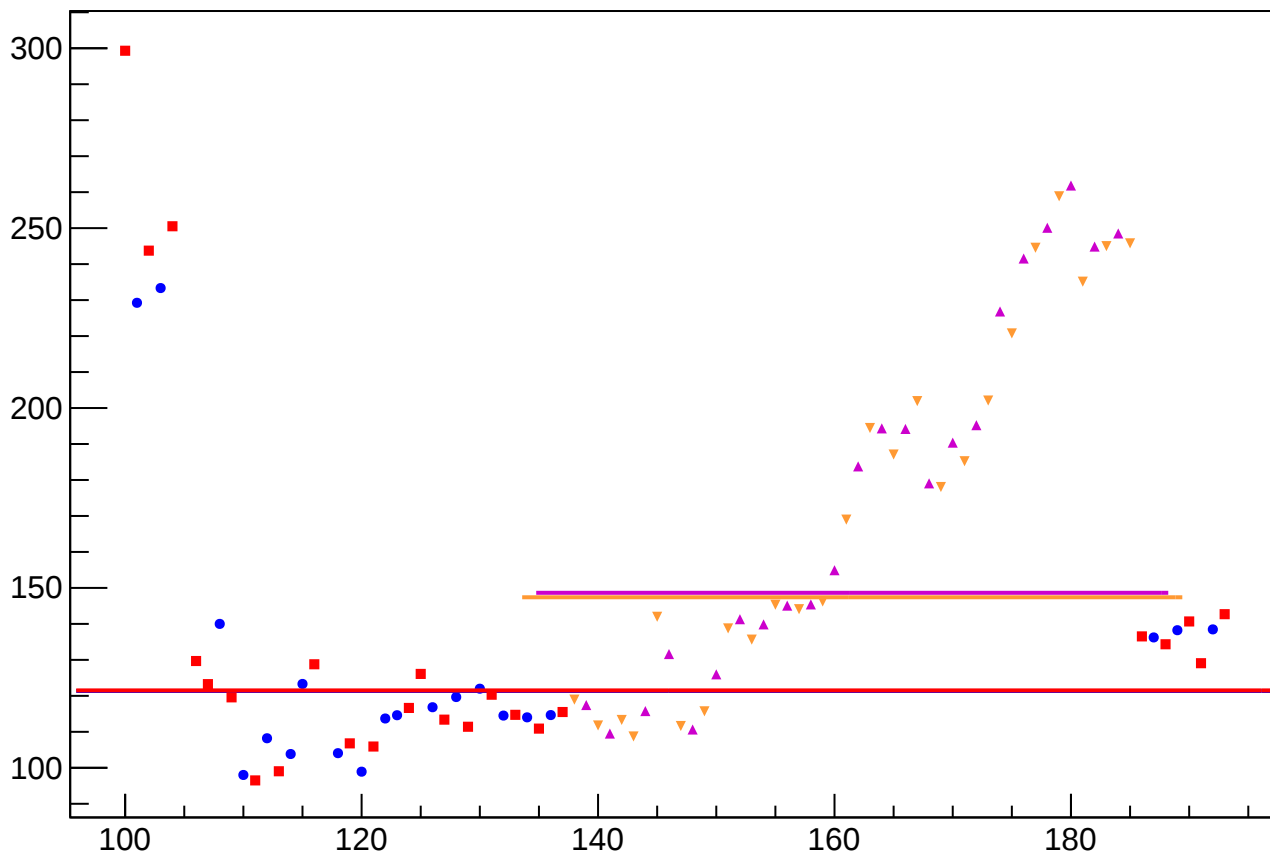
Right: 3095.938+/-30.135 χ^2/NDF : 162533.1/43

In: -3431.401+/-28.594 χ^2/NDF : 109749.5/42

Out: -1260.356+/-26.914 χ^2/NDF : 190251.9/48

All: -2280.240+/-19.598 χ^2/NDF : 303058.1/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 121.357+/-0.032 χ^2/NDF : 688754.9/19

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 121.510+/-0.029 χ^2/NDF : 780450.4/23

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

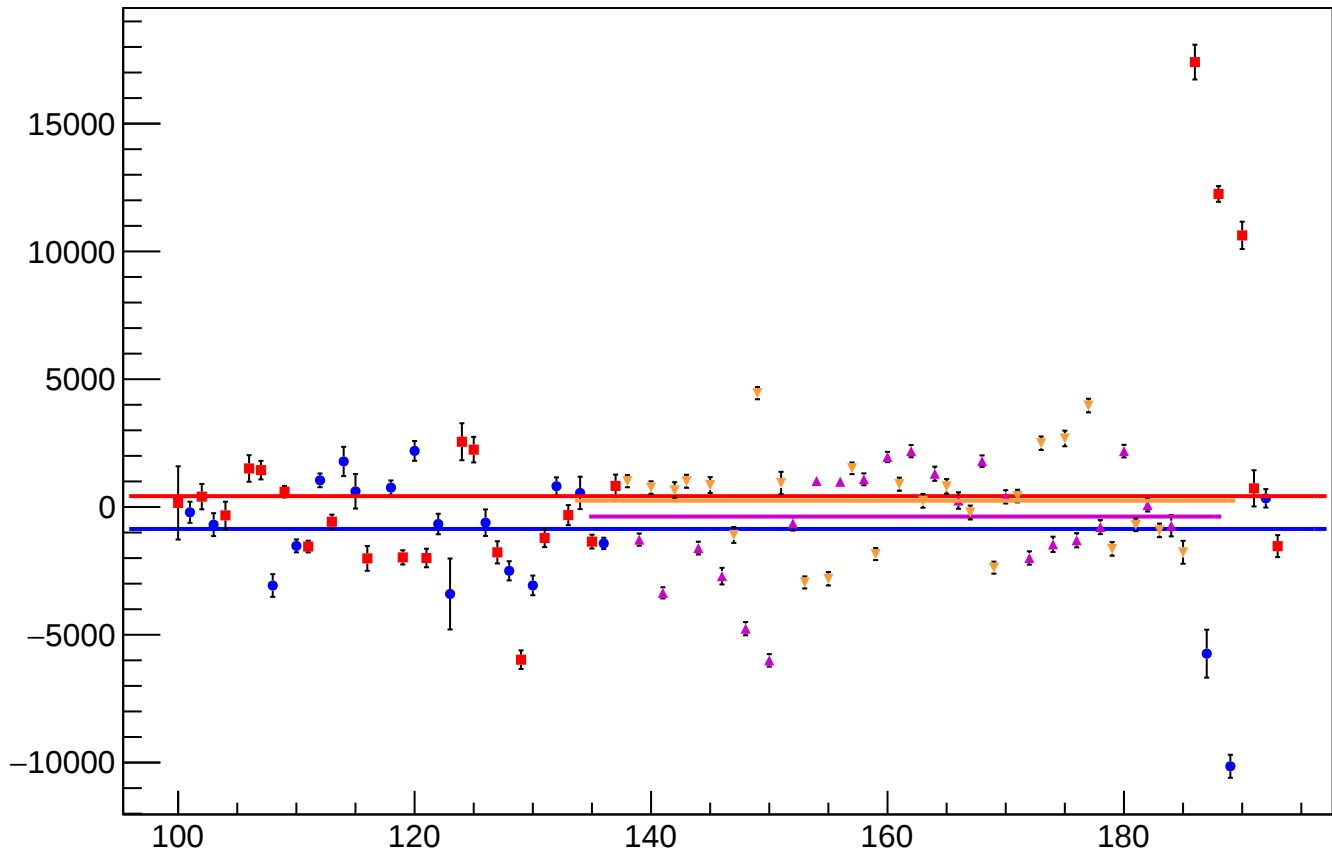
Right: 121.440+/-0.021 χ^2/NDF : 1469218.1/43

In: 137.512+/-0.020 χ^2/NDF : 3544125.3/42

Out: 136.102+/-0.019 χ^2/NDF : 3752586.3/48

All: 136.764+/-0.014 χ^2/NDF : 7299292.6/91

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -859.126+/-84.857 χ^2/NDF : 759.4/19

Left Out: 246.120+/-53.492 χ^2/NDF :1354.8/24

Right Out: 424.650+/-76.400 χ^2/NDF : 3149.0/23

Left In: -374.465+/-51.892 χ^2/NDF :1798.3/22

Left: -73.589+/-37.246 χ^2/NDF : 3222.4/47

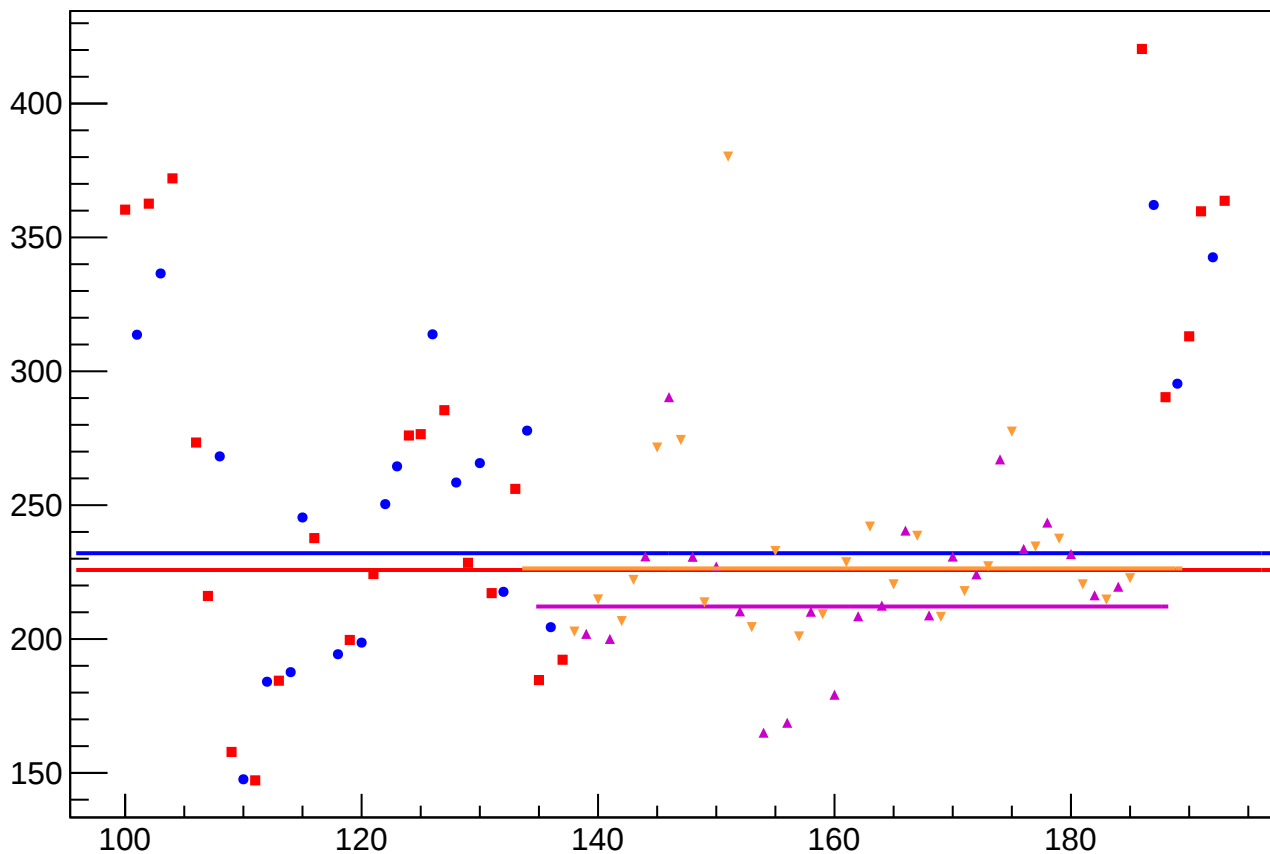
Right: -150.089+/-56.778 χ^2/NDF : 4034.8/43

In: -506.379+/-44.271 χ^2/NDF :2581.4/42

Out: 304.849+/-43.819 χ^2/NDF :4507.5/48

All: -96.605+/-31.143 χ^2/NDF : 7258.5/91

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 232.057 ± 0.060 $\chi^2/\text{NDF}: 939422.7/19$

Left Out: 226.376 ± 0.038 $\chi^2/\text{NDF}: 521770.1/24$

Right Out: 225.783 ± 0.054 $\chi^2/\text{NDF}: 1538998.3/23$

Left In: 212.145 ± 0.037 $\chi^2/\text{NDF}: 591698.6/22$

Left: 219.044 ± 0.026 $\chi^2/\text{NDF}: 1186390.8/47$

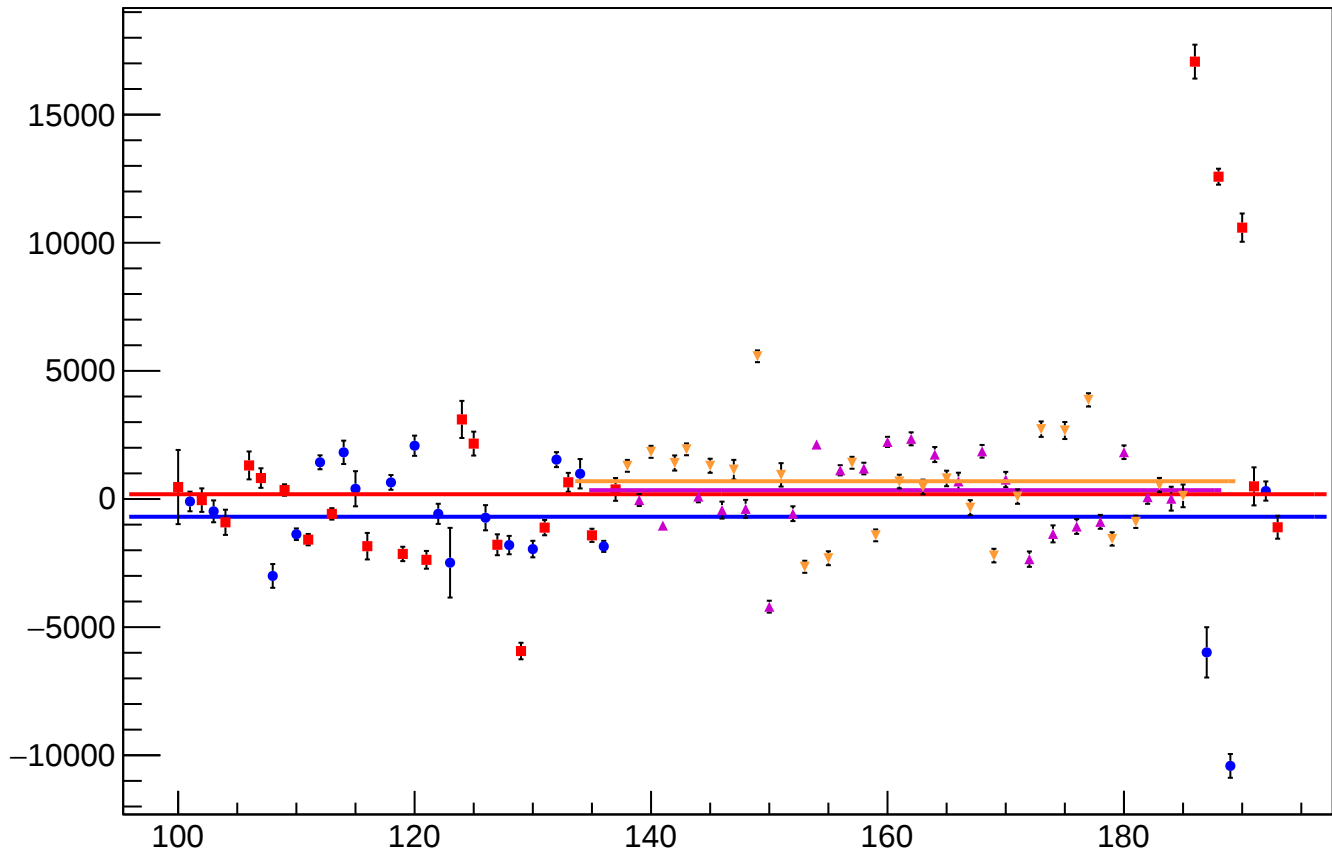
Right: 228.592 ± 0.040 $\chi^2/\text{NDF}: 2484459.5/43$

In: 217.565 ± 0.031 $\chi^2/\text{NDF}: 1611275.7/42$

Out: 226.181 ± 0.031 $\chi^2/\text{NDF}: 2060849.1/48$

All: 221.917 ± 0.022 $\chi^2/\text{NDF}: 3710391.5/91$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -692.570 ± 80.855 $\chi^2/\text{NDF}: 798.0/19$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 186.524 ± 72.867 $\chi^2/\text{NDF}: 3299.4/23$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

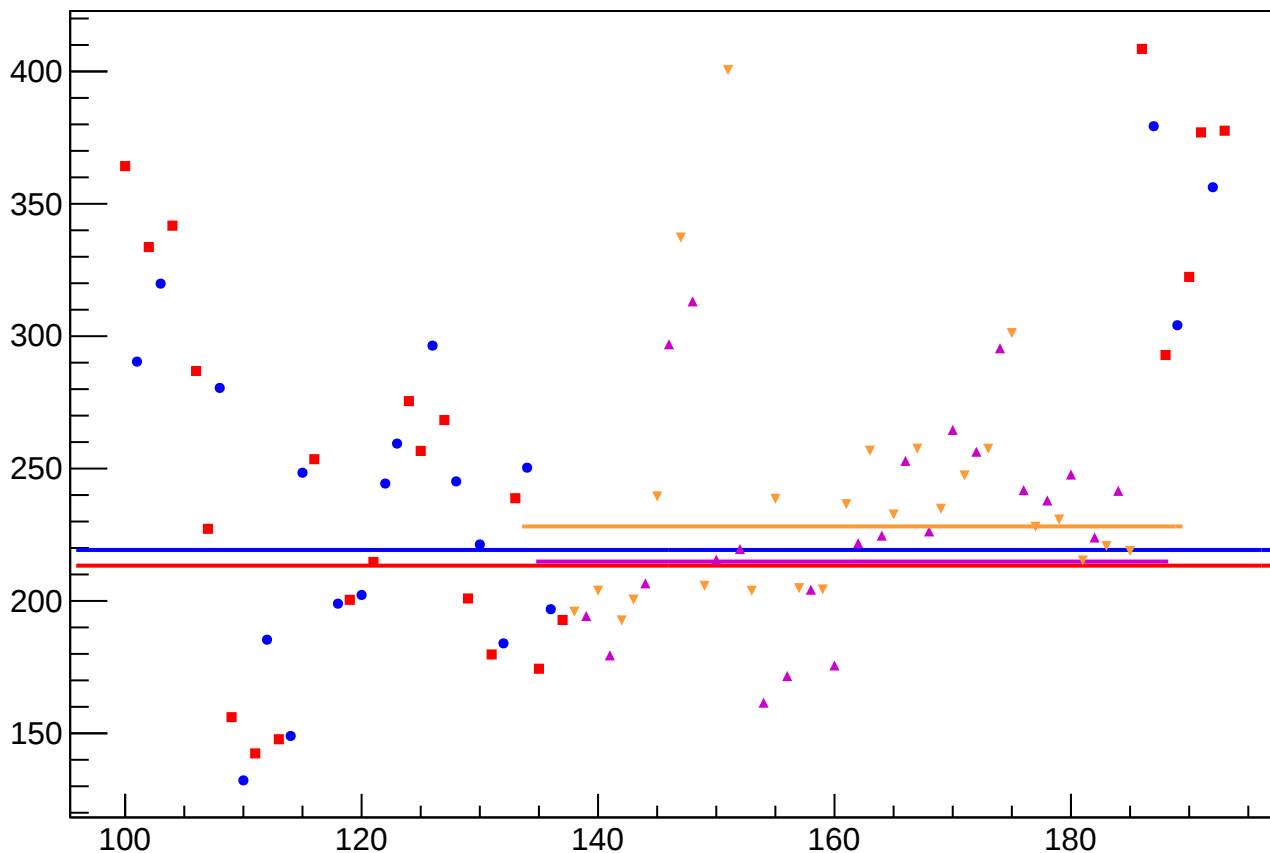
Right: -207.462 ± 54.129 $\chi^2/\text{NDF}: 4162.6/43$

In: 33.251 ± 44.299 $\chi^2/\text{NDF}: 1898.2/42$

Out: 513.247 ± 43.513 $\chi^2/\text{NDF}: 4752.7/48$

All: 277.548 ± 31.042 $\chi^2/\text{NDF}: 6710.7/91$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.259 $\pm$ 0.057 χ^2/NDF : 1119809.7/19

Left Out: 228.144 $\pm$ 0.038 χ^2/NDF :828399.3/24

Right Out: 213.332 $\pm$ 0.052 χ^2/NDF : 1765565.4/23

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

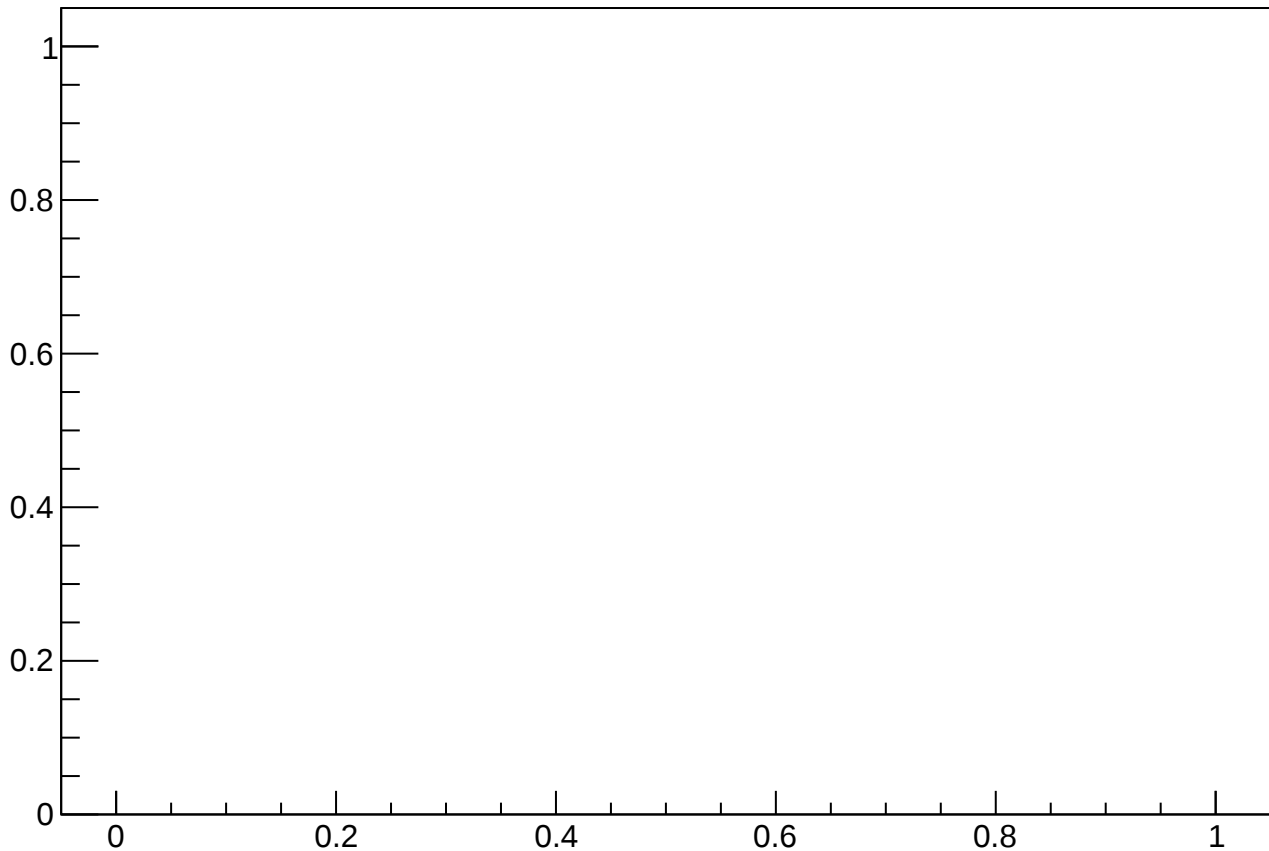
Right: 215.988 $\pm$ 0.038 χ^2/NDF : 2891306.7/43

In: 216.193 $\pm$ 0.031 χ^2/NDF :2161428.3/42

Out: 222.862 $\pm$ 0.031 χ^2/NDF :2647138.5/48

All: 219.587 $\pm$ 0.022 χ^2/NDF : 4831633.7/91

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

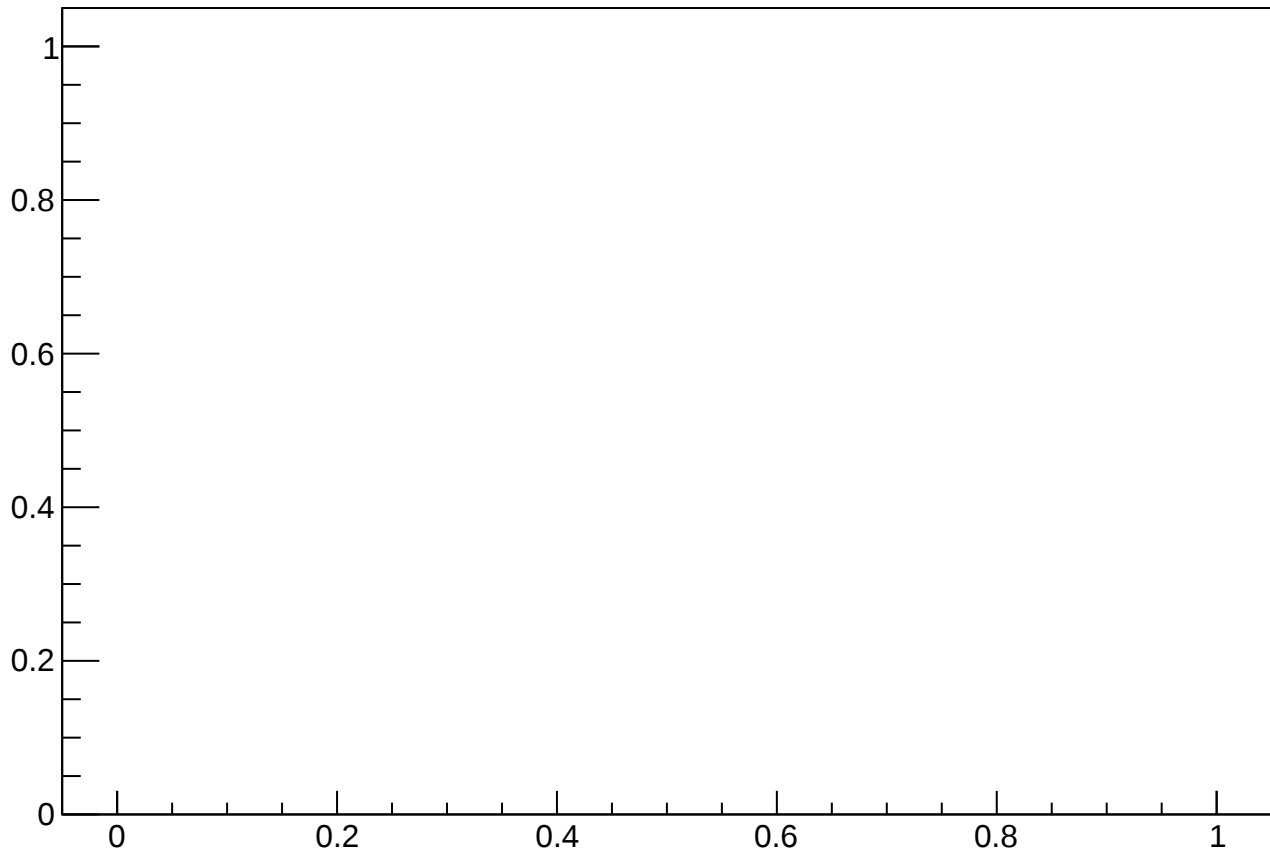
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

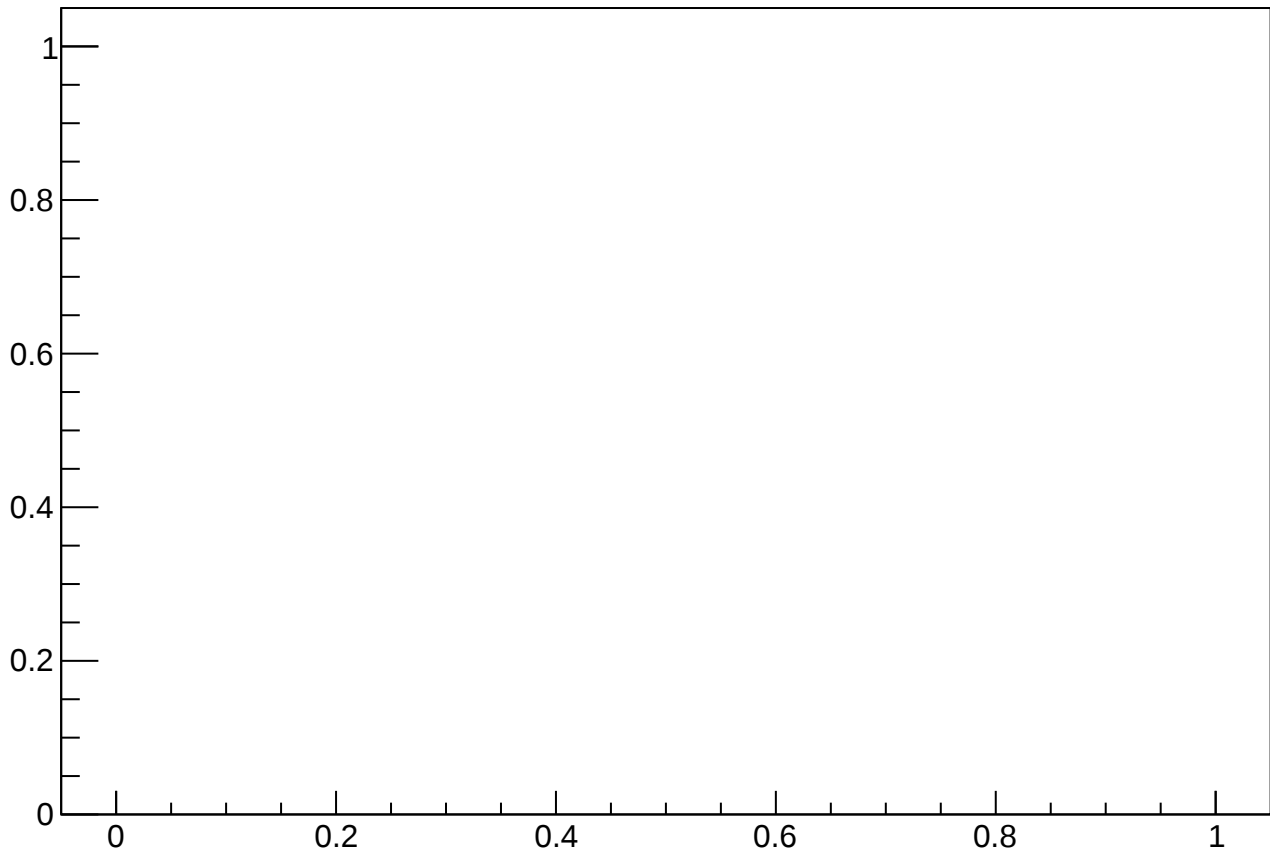
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

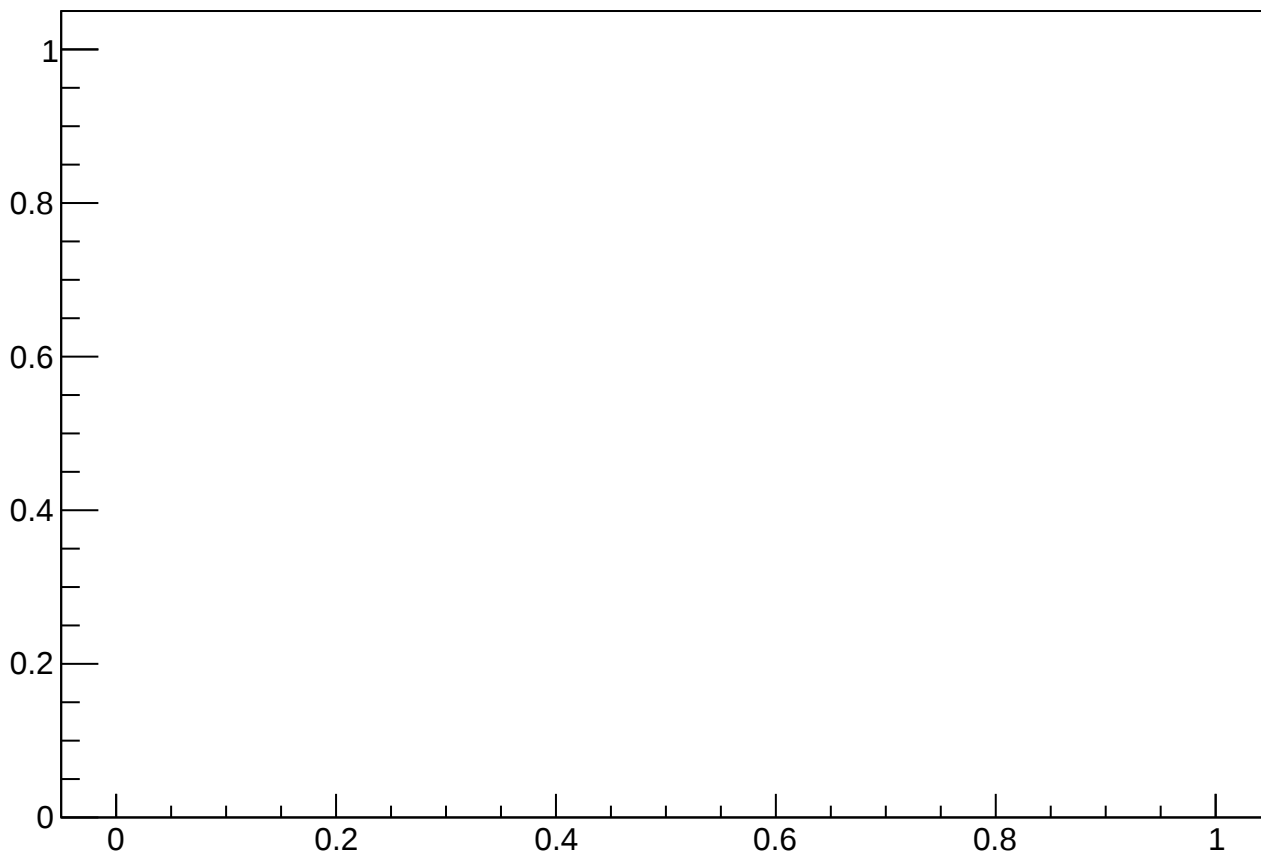
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

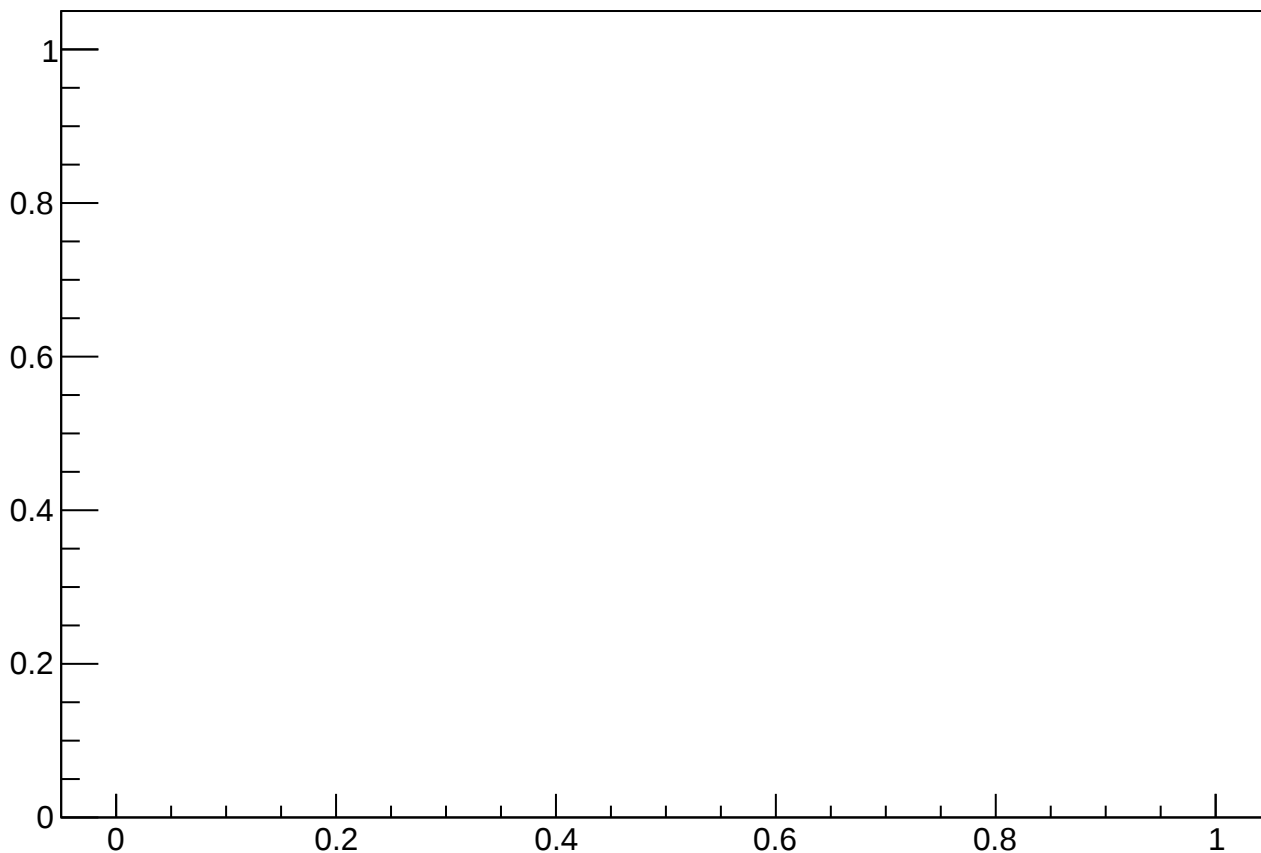
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

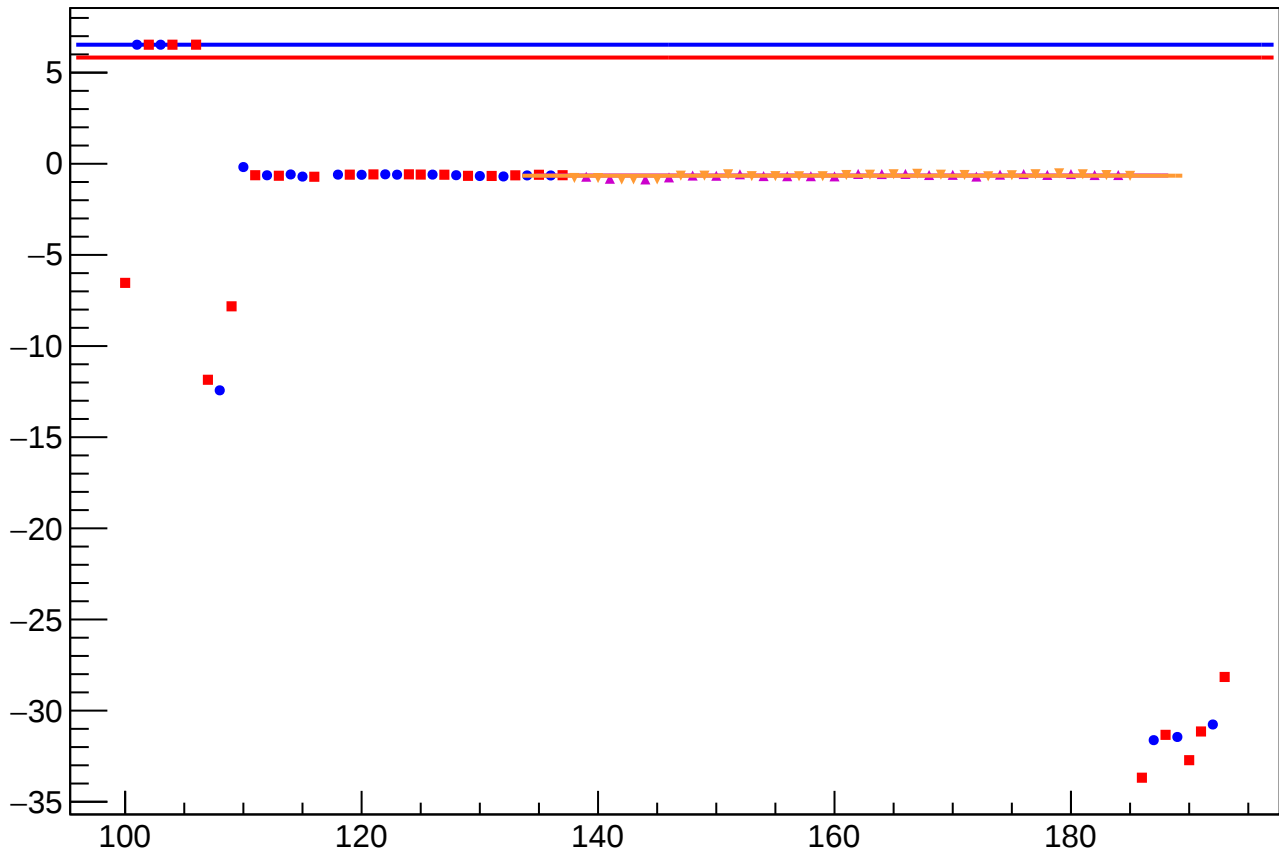
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127724619236.2/19

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962123653598.5/23

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

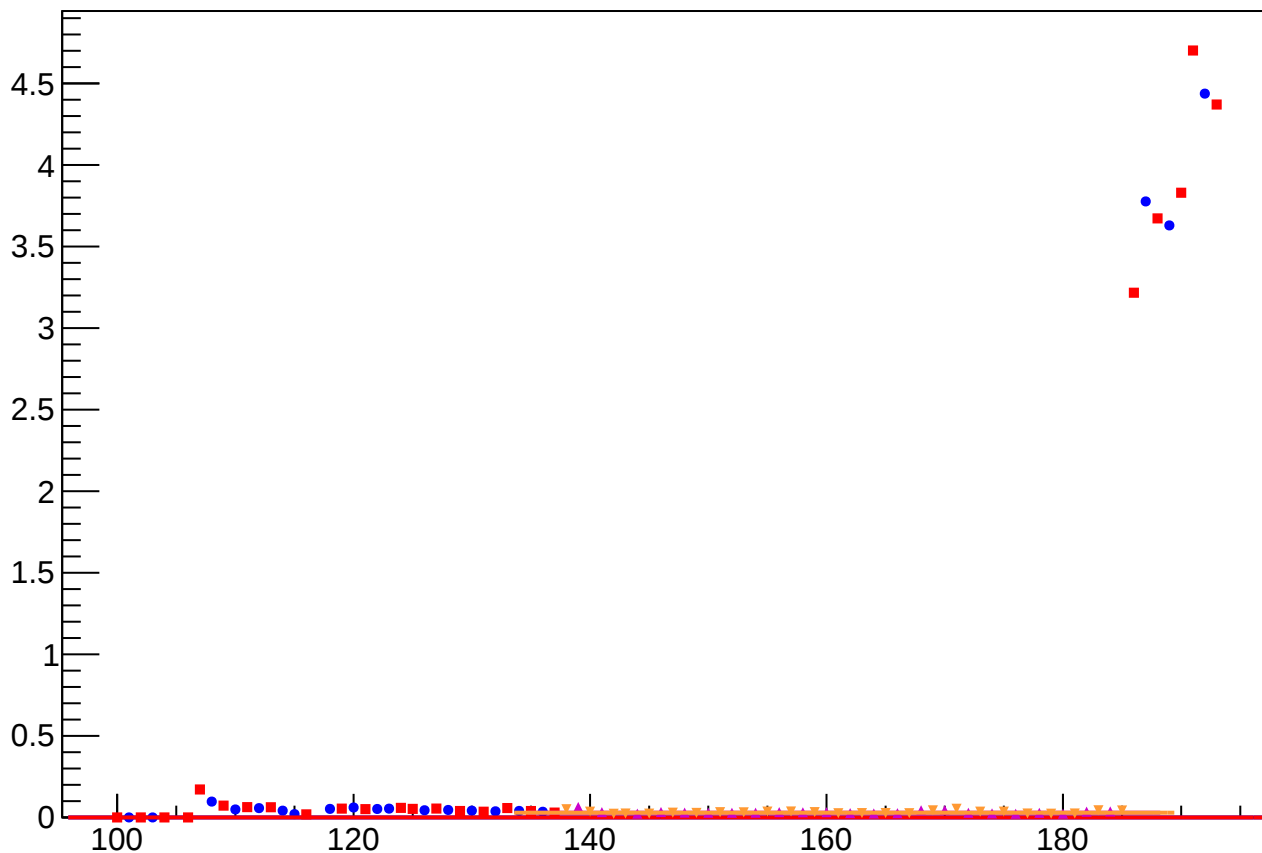
Right: 6.155+/-0.000 χ^2/NDF : 776093812754479.6/48

In: 6.530+/-0.000 χ^2/NDF : 961843220452.9/42

Out: 5.826+/-0.000 χ^2/NDF : 756673140556113.6/41

All: 6.153+/-0.000 χ^2/NDF : 77762724466183.0/90

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 11750854.3/19

Left Out: 0.029+/-0.000 χ^2 /NDF:1484308.2/24

Right Out: 0.000+/-0.000 χ^2 /NDF: 14324367.9/23

Left In: 0.029+/-0.000 χ^2 /NDF:1206492.9/22

Left: 0.029+/-0.000 χ^2 /NDF: 2691219.2/47

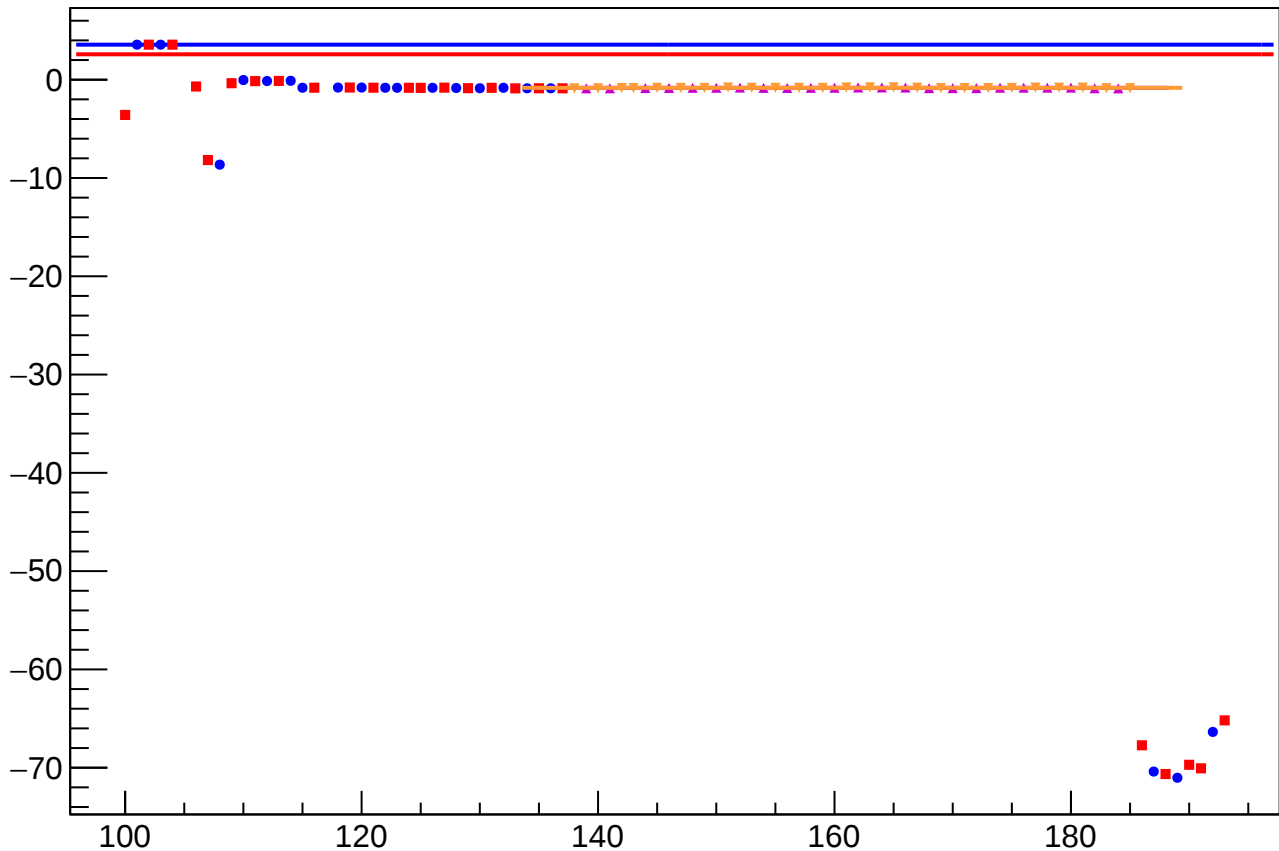
Right: 0.000+/-0.000 χ^2 /NDF: 26075469.6/43

In: 0.000+/-0.000 χ^2 /NDF:39928671.0/42

Out: 0.000+/-0.000 χ^2 /NDF:44292418.9/48

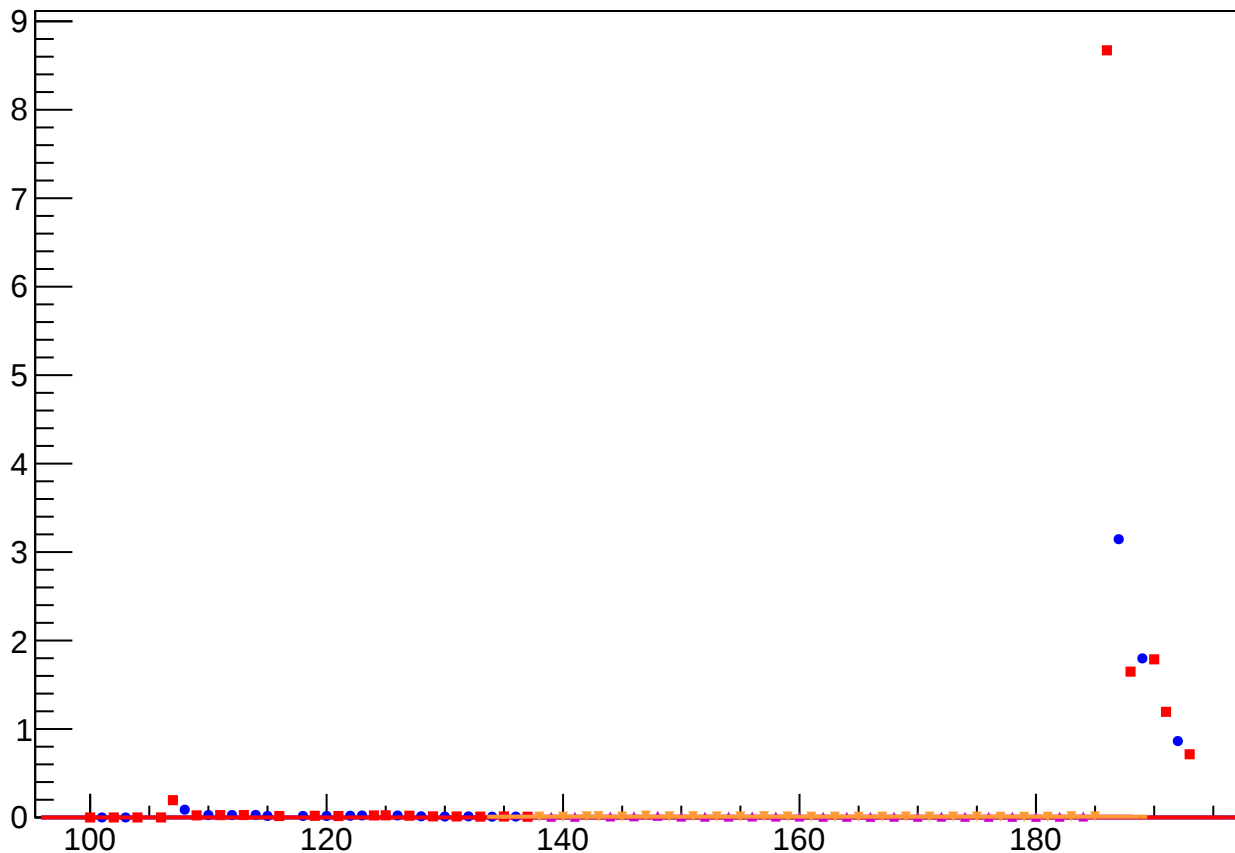
All: 0.000+/-0.000 χ^2 /NDF: 84221515.3/91

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 485202119004.1/19	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 : 1382265999334926.5
Right Out: 2.583+/-0.000	χ^2/NDF : 1253509659290597.8/23	In: 3.560+/-0.000	χ^2/NDF : 4165763972445.6/42
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255740560952681.2
		All: 3.038+/-0.000	χ^2/NDF : 13879905620484.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12065401.9/19

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14323566.6/23

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

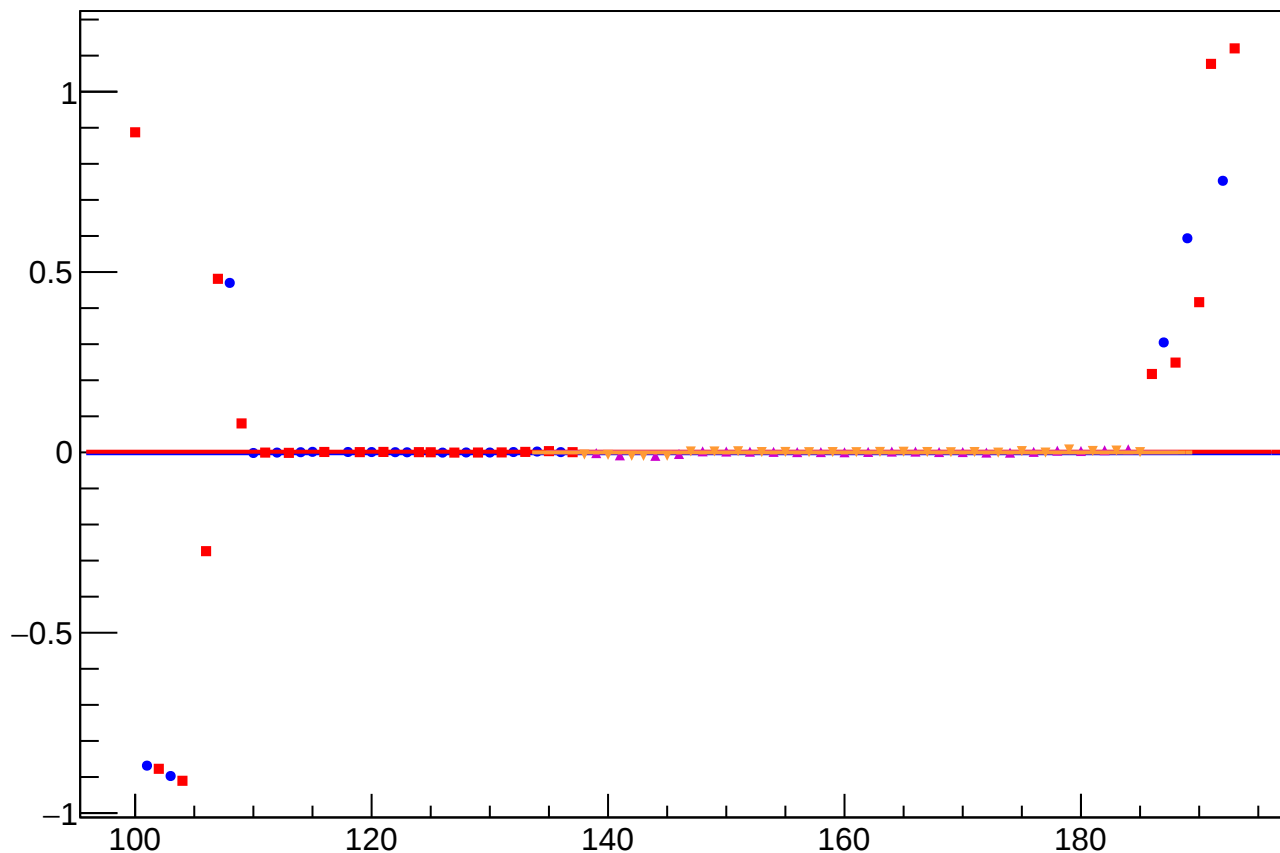
Right: 0.000+/-0.000 χ^2/NDF : 26389241.8/43

In: 0.000+/-0.000 χ^2/NDF :41862616.4/42

Out: 0.000+/-0.000 χ^2/NDF :45841769.5/48

All: 0.000+/-0.000 χ^2/NDF : 87705163.3/91

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795164198.2/19

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000 χ^2/NDF : 12851117729.3/43

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

In: -0.000+/-0.000 χ^2/NDF : 9908078679.7/42

Right Out: 0.002+/-0.000

χ^2/NDF : 3041807241.6/23

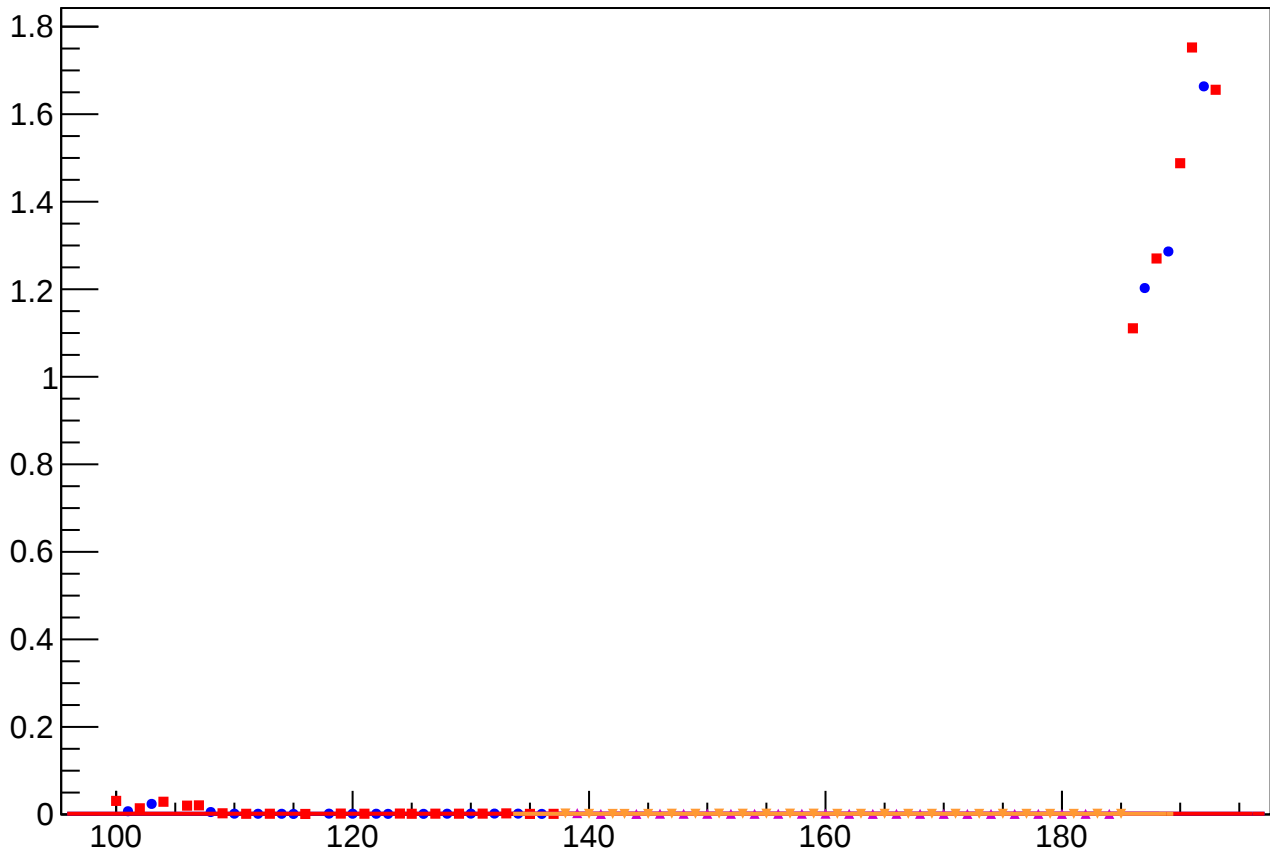
Out: 0.000+/-0.000 χ^2/NDF : 3198039563.7/48

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13106489720.4/9

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4810157.8/19

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 7997820.5/23

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

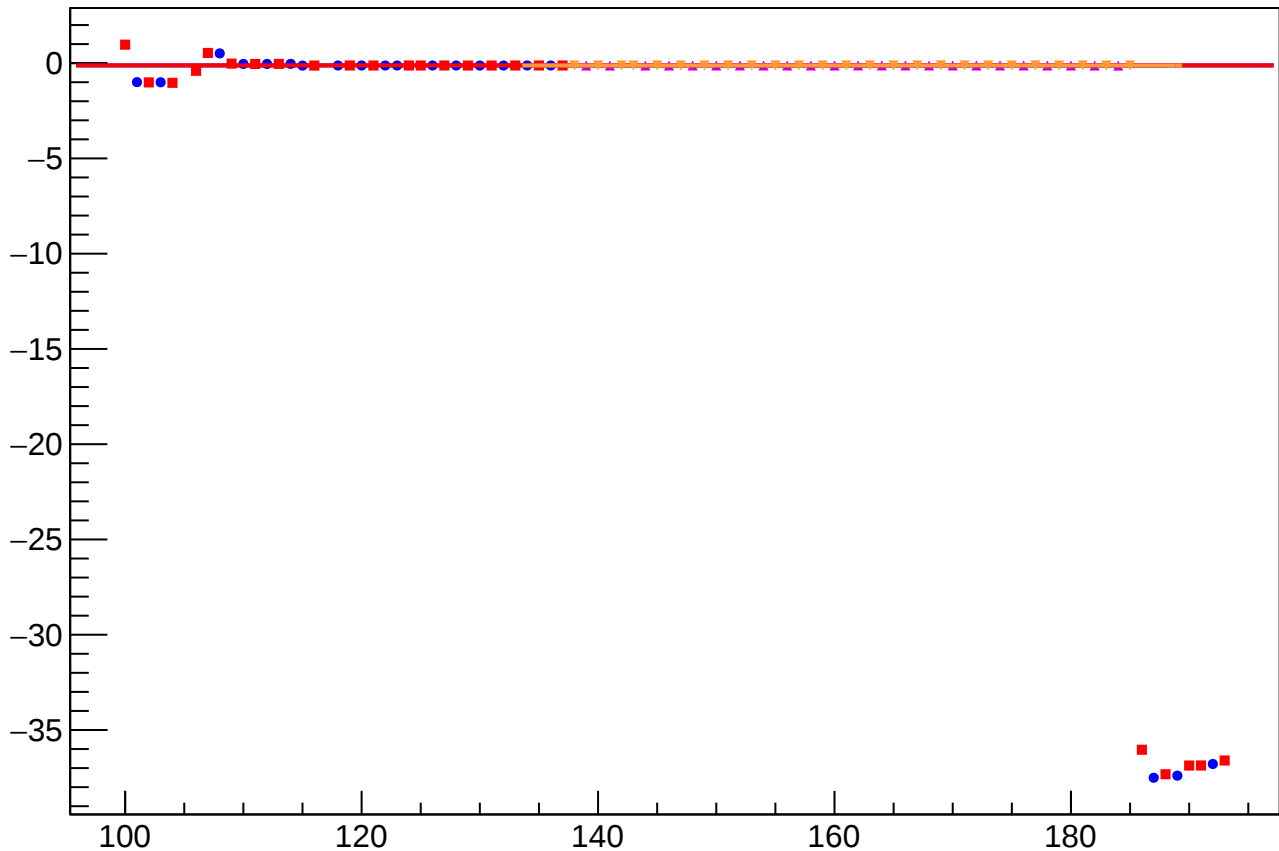
Right: 0.002+/-0.000 χ^2/NDF : 12815938.3/43

In: 0.002+/-0.000 χ^2/NDF :5521117.7/42

Out: 0.002+/-0.000 χ^2/NDF :8671125.5/48

All: 0.002+/-0.000 χ^2/NDF : 14192867.4/91

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 14919151689.0/19

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 19463899685.9/23

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

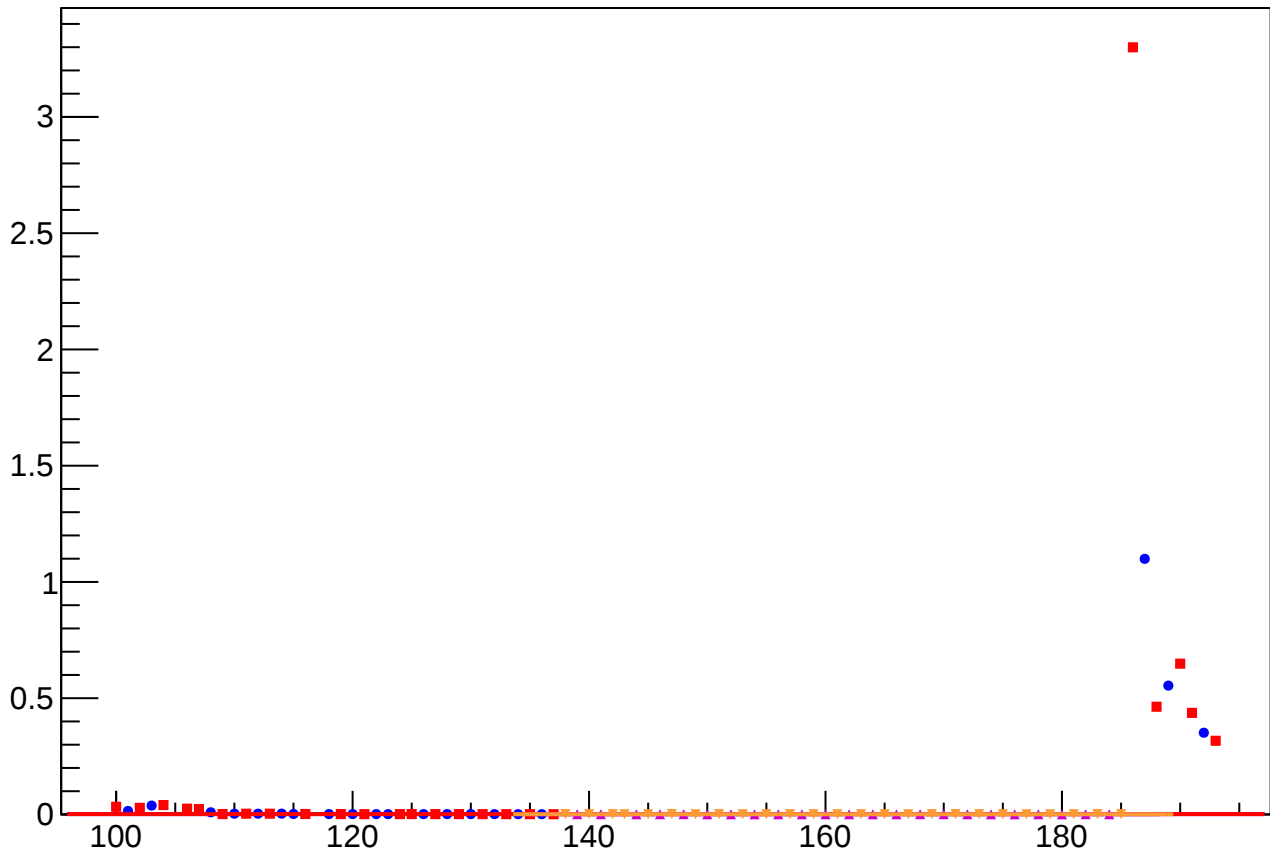
Right: -0.118+/-0.000 χ^2/NDF : 34405063326.5/43

In: -0.121+/-0.000 χ^2/NDF : 14972618405.5/42

Out: -0.121+/-0.000 χ^2/NDF : 19572910569.6/48

All: -0.121+/-0.000 χ^2/NDF : 34546440020.6/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5606773.8/19

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8329493.4/23

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

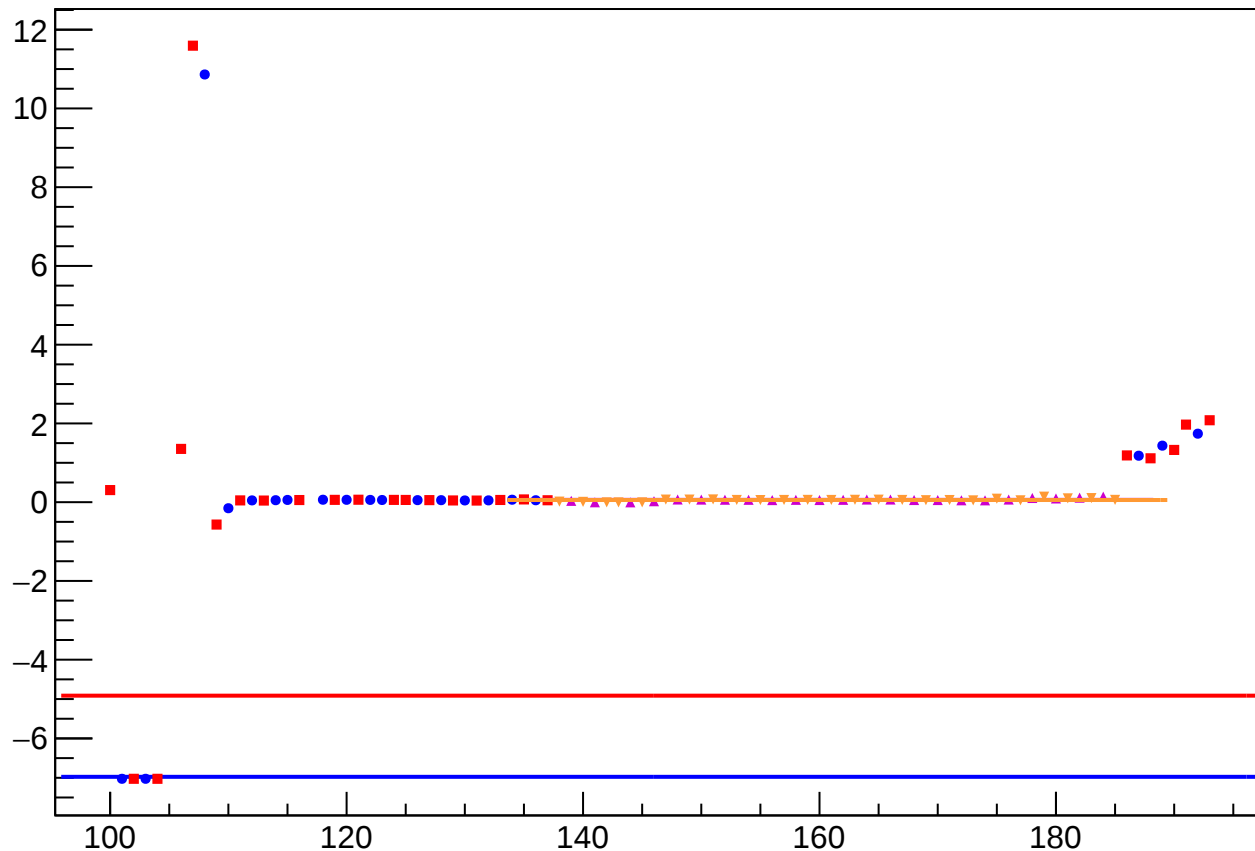
Right: 0.002+/-0.000 χ^2/NDF : 13936302.7/43

In: 0.001+/-0.000 χ^2/NDF :7703554.7/42

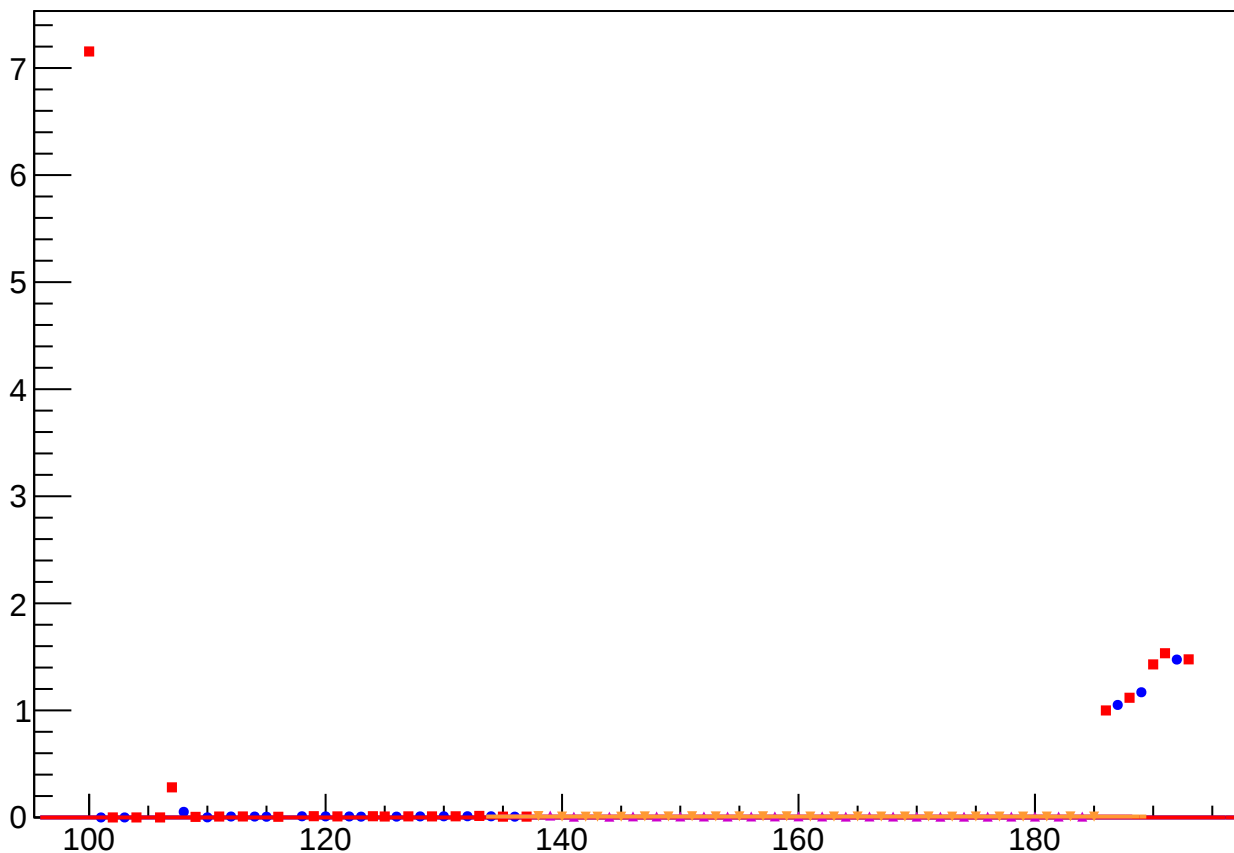
Out: 0.001+/-0.000 χ^2/NDF :10843985.3/48

All: 0.001+/-0.000 χ^2/NDF : 18549646.2/91

yield_cav4dX_mean vs Slug, Sign Corrected



yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11122063.5/19

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 13742069.6/23

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

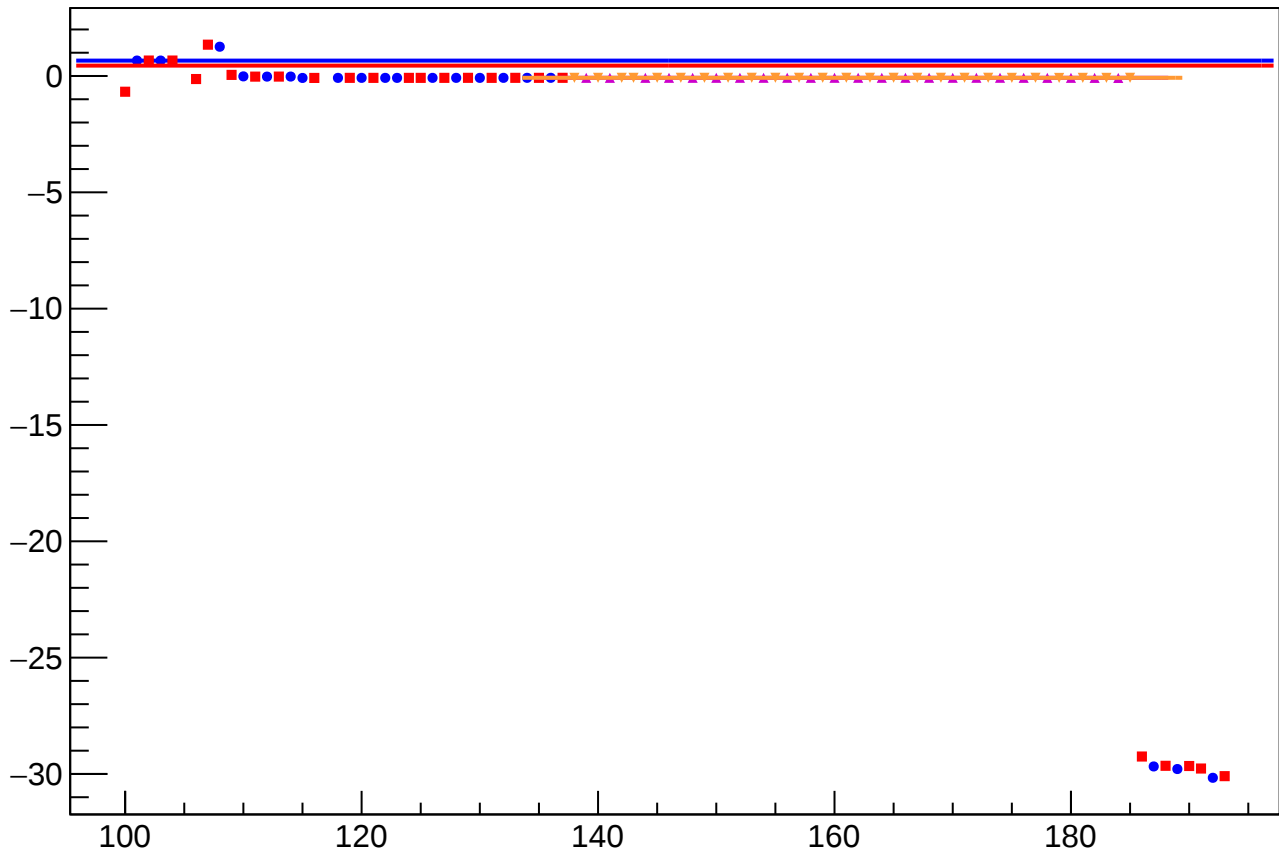
Right: 0.000+/-0.000 χ^2/NDF : 24864436.1/43

In: 0.000+/-0.000 χ^2/NDF : 38759428.5/42

Out: 0.000+/-0.000 χ^2/NDF : 42770702.0/48

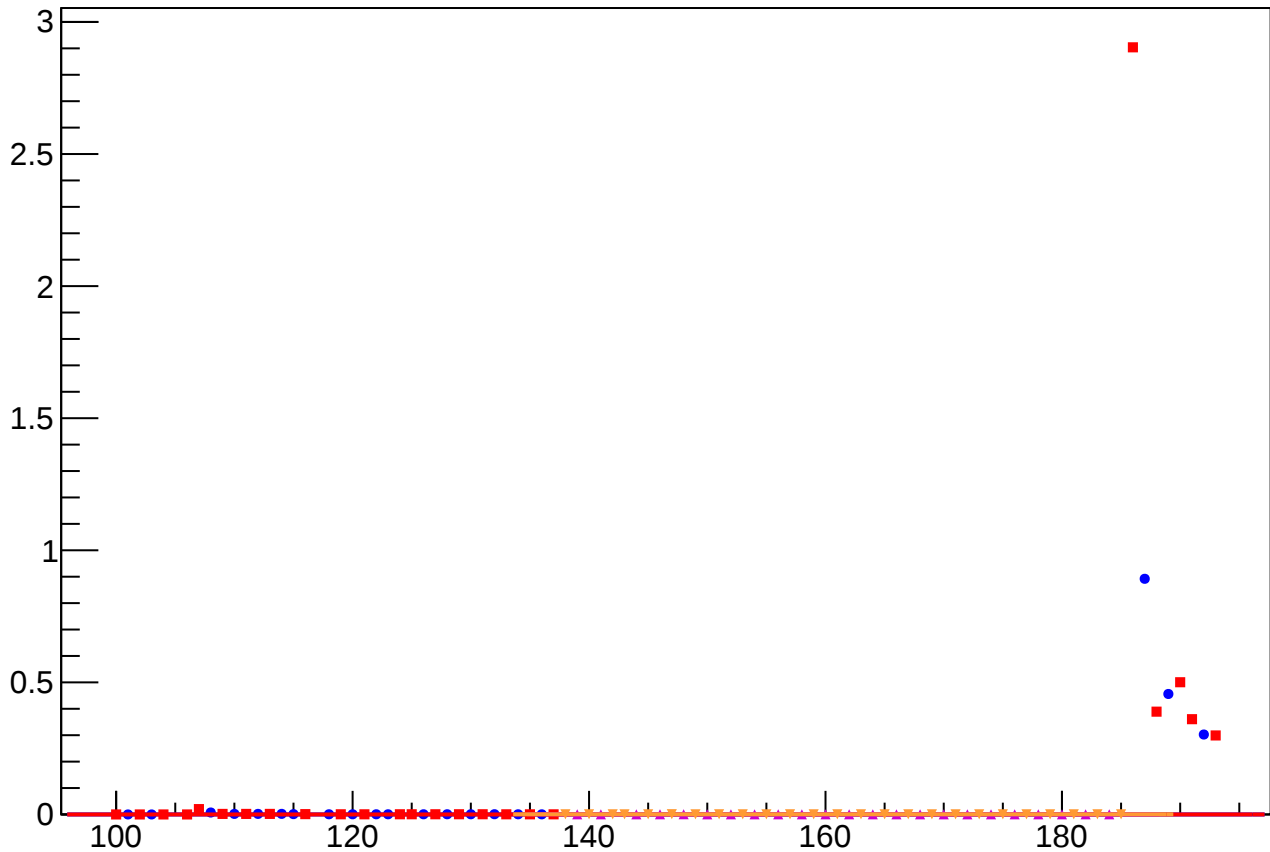
All: 0.000+/-0.000 χ^2/NDF : 81530616.0/91

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5596242328987.5/19	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 : 473957361551627.0/47
Right Out: 0.446+/-0.000	χ^2/NDF : 405431885907147.9/23	In: 0.647+/-0.000	χ^2/NDF : 33856223275925.2/42
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420626482846036.0/42
		All: 0.537+/-0.000	χ^2/NDF : 51600739940375.0/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12677676.4/19

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 14345732.1/23

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

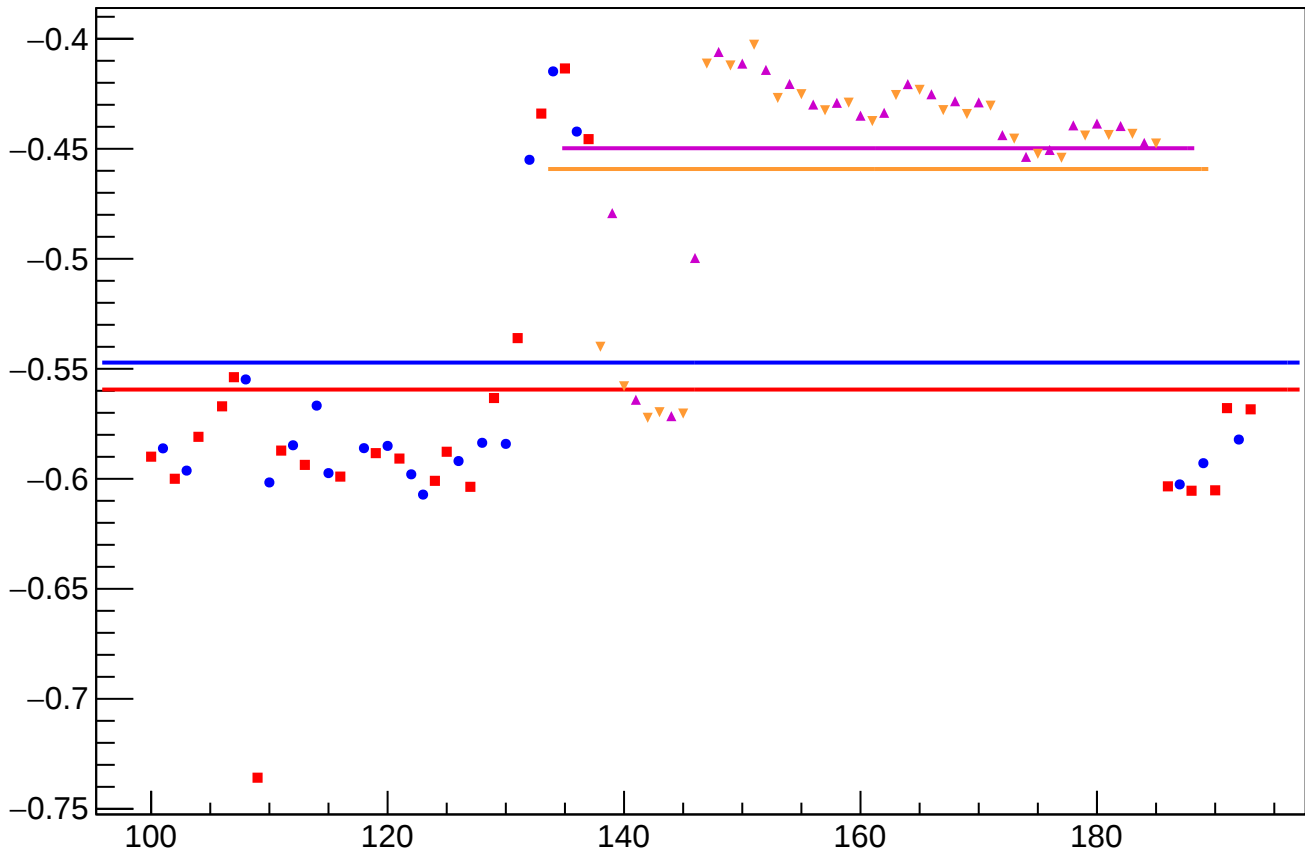
Right: 0.000+/-0.000 χ^2/NDF : 27023414.8/43

In: 0.000+/-0.000 χ^2/NDF : 43656549.8/42

Out: 0.000+/-0.000 χ^2/NDF : 47060084.5/48

All: 0.000+/-0.000 χ^2/NDF : 90717032.5/91

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547 $\pm$ 0.000 χ^2 /NDF: 47175204.8/19

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113808762.6/24

Right Out: -0.559 $\pm$ 0.000 χ^2 /NDF: 65174332.0/23

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

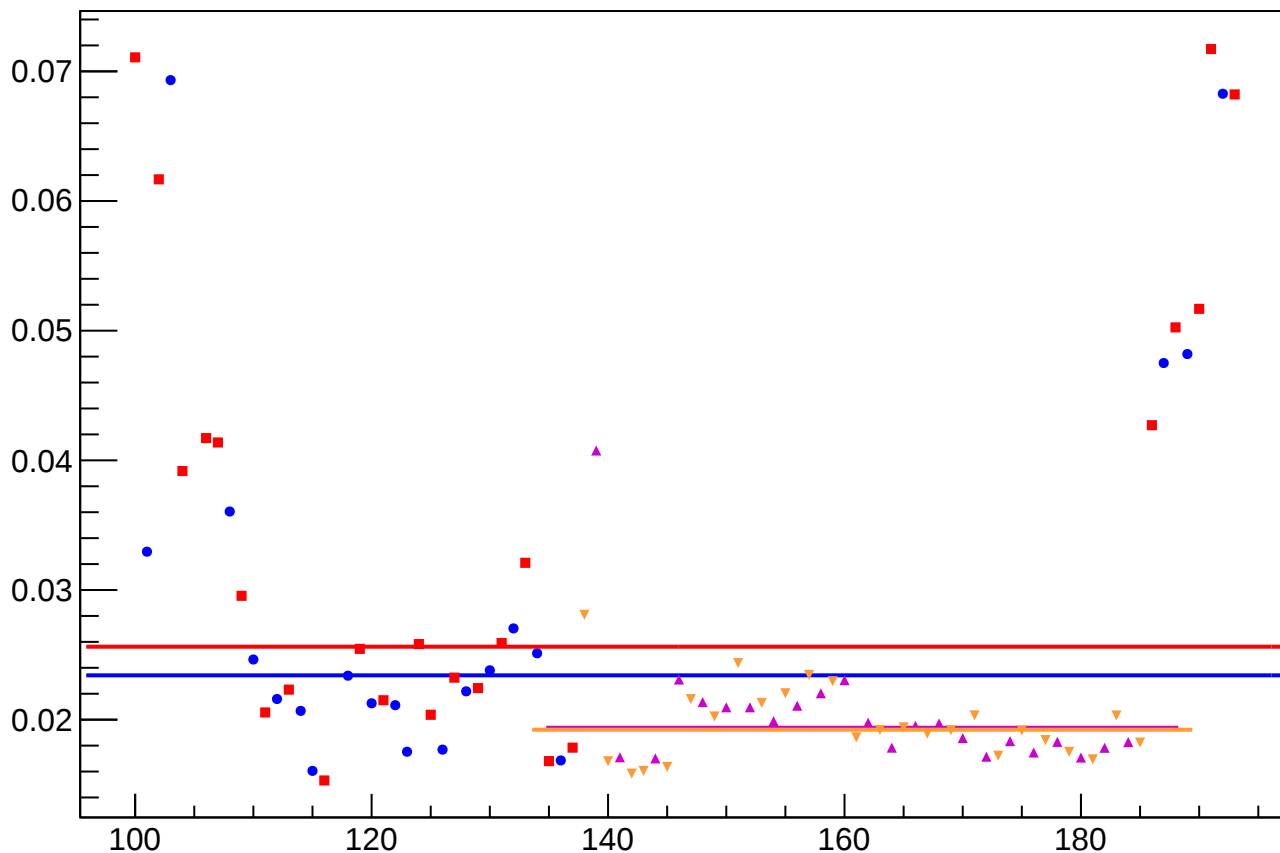
Right: -0.553 $\pm$ 0.000 χ^2 /NDF: 113156972.9/43

In: -0.472 $\pm$ 0.000 χ^2 /NDF: 202910076.1/42

Out: -0.480 $\pm$ 0.000 χ^2 /NDF: 263770439.2/48

All: -0.476 $\pm$ 0.000 χ^2 /NDF: 468520452.5/91

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2062698.3/19

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.026+/-0.000 χ^2/NDF : 2709497.0/23

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

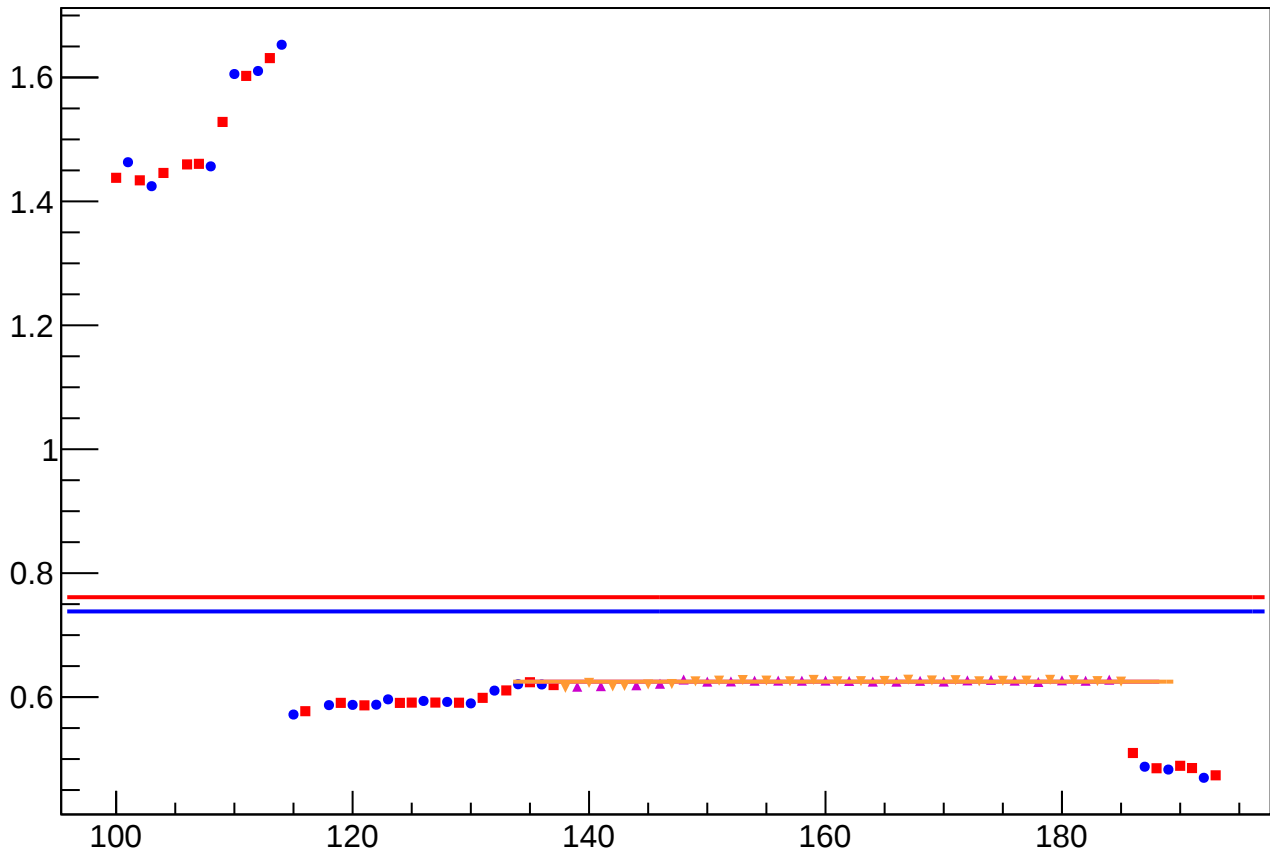
Right: 0.025+/-0.000 χ^2/NDF : 4824523.5/43

In: 0.020+/-0.000 χ^2/NDF : 2992930.1/42

Out: 0.021+/-0.000 χ^2/NDF : 3902242.6/48

All: 0.020+/-0.000 χ^2/NDF : 6899180.1/91

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.738 $\pm$ 0.000 χ^2 /NDF: 4031853885.3/19

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.761 $\pm$ 0.000 χ^2 /NDF: 4872572260.3/23

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

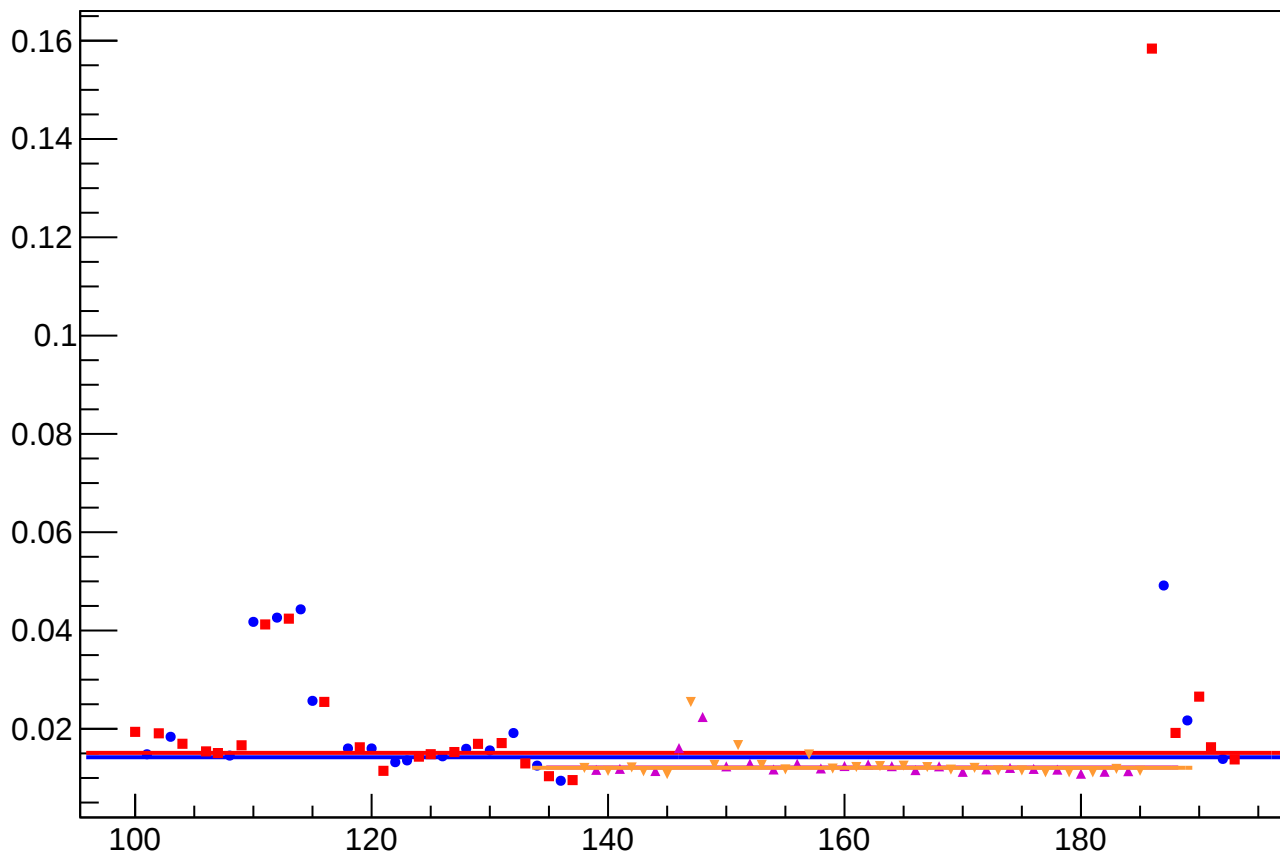
Right: 0.750 $\pm$ 0.000 χ^2 /NDF: 8913536878.7/43

In: 0.651 $\pm$ 0.000 χ^2 /NDF:4370160291.3/42

Out: 0.655 $\pm$ 0.000 χ^2 /NDF:5379416357.8/48

All: 0.653 $\pm$ 0.000 χ^2 /NDF: 9751189558.5/91

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1627381.3/19

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2048923.2/23

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

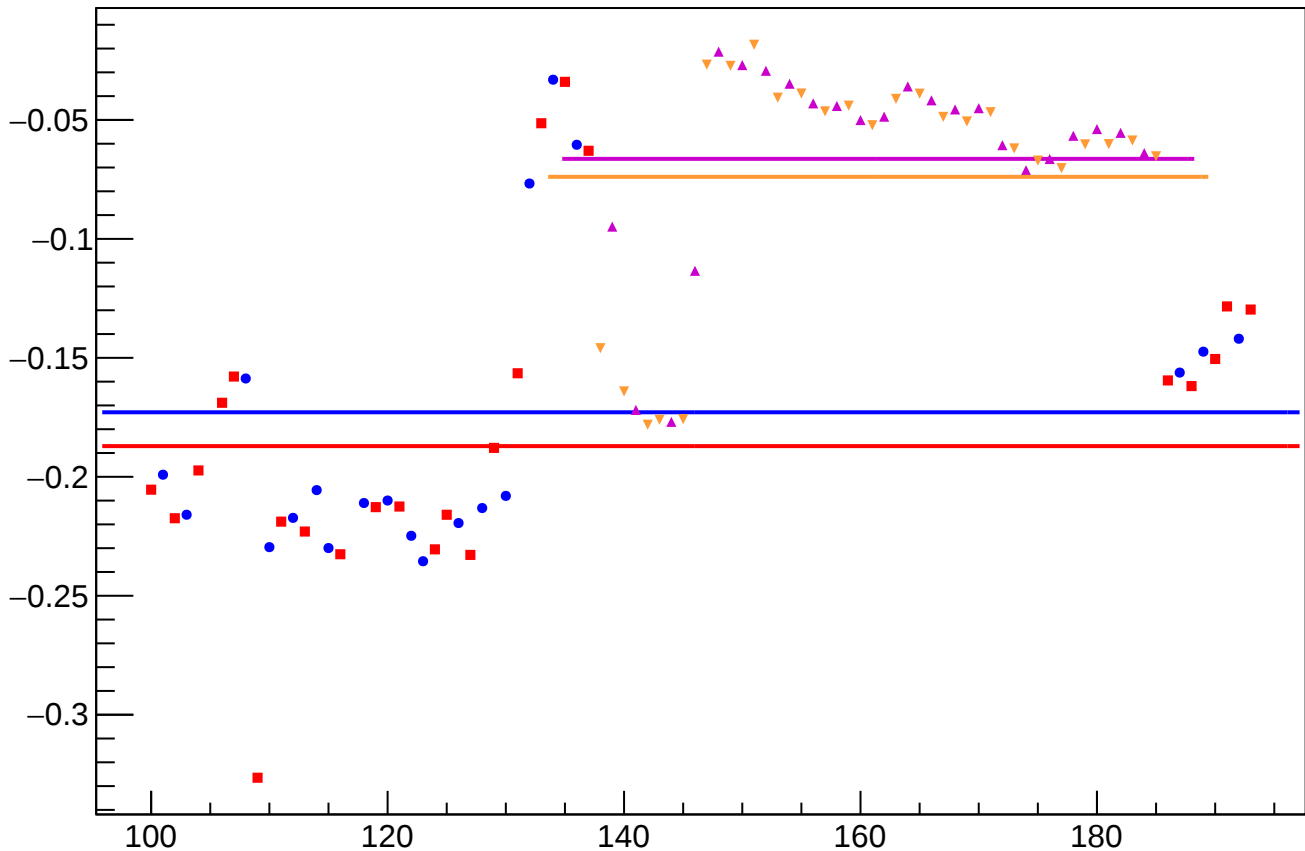
Right: 0.015+/-0.000 χ^2/NDF : 3703726.8/43

In: 0.013+/-0.000 χ^2/NDF : 2342496.3/42

Out: 0.013+/-0.000 χ^2/NDF : 3207102.1/48

All: 0.013+/-0.000 χ^2/NDF : 5552588.0/91

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 67155655.5/19

Left Out: -0.074+/-0.000 χ^2/NDF :107858881.3/24

Right Out: -0.187+/-0.000 χ^2/NDF : 82671419.2/23

Left In: -0.066+/-0.000 χ^2/NDF :76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

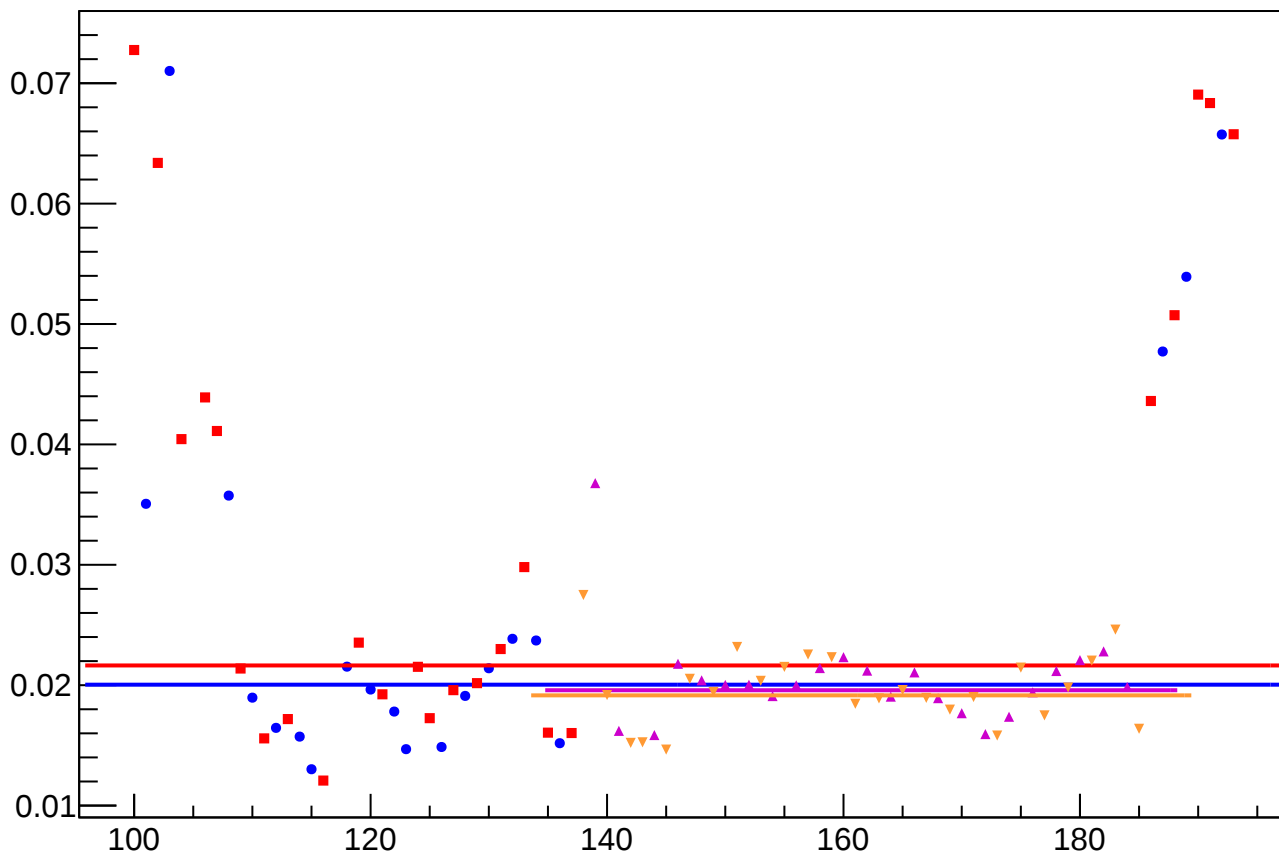
Right: -0.180+/-0.000 χ^2/NDF : 151265290.6/43

In: -0.096+/-0.000 χ^2/NDF :260514797.1/42

Out: -0.103+/-0.000 χ^2/NDF :325840565.0/48

All: -0.099+/-0.000 χ^2/NDF : 587746691.9/91

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2533729.0/19

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.022+/-0.000 χ^2/NDF : 3488412.1/23

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

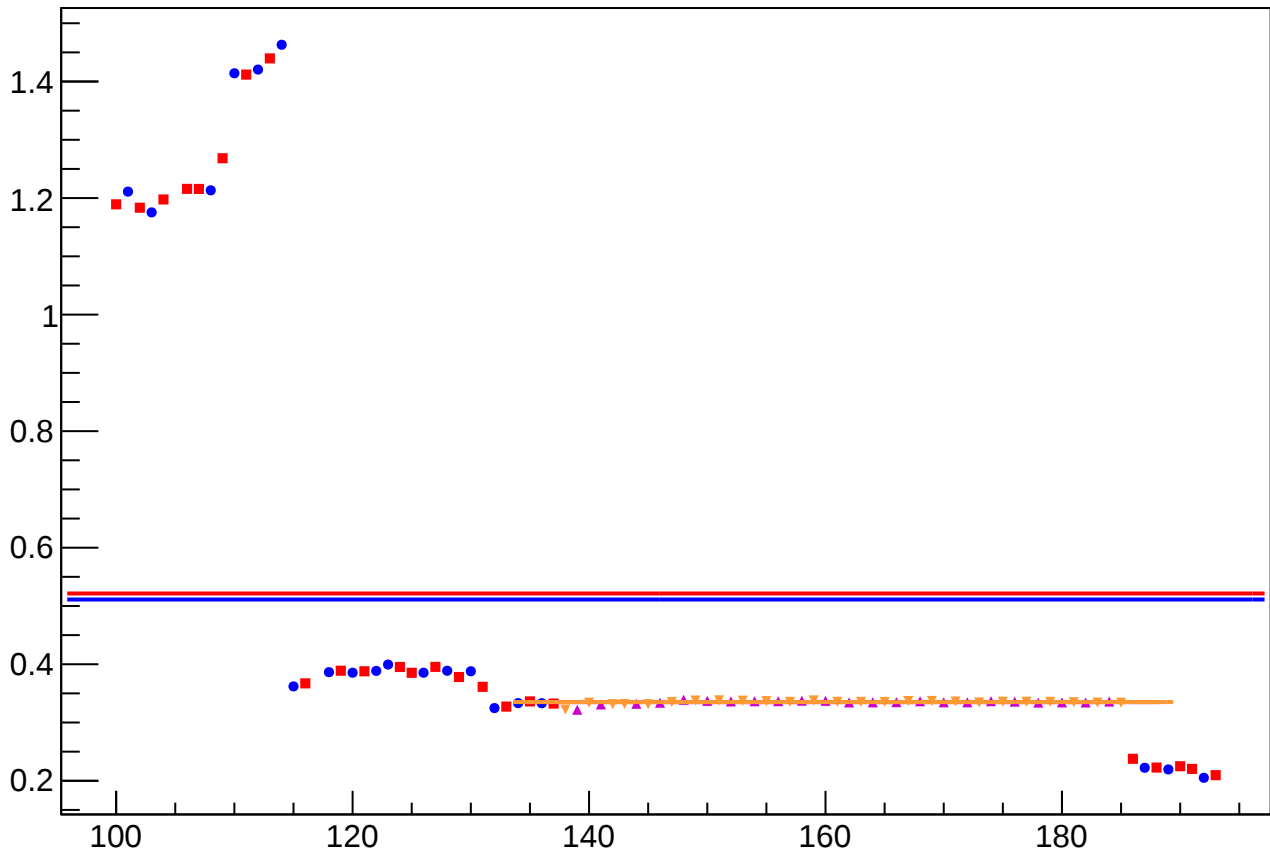
Right: 0.021+/-0.000 χ^2/NDF : 6058425.8/43

In: 0.020+/-0.000 χ^2/NDF : 3189445.9/42

Out: 0.020+/-0.000 χ^2/NDF : 4259767.8/48

All: 0.020+/-0.000 χ^2/NDF : 7449590.8/91

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.511+/-0.000 χ^2/NDF : 5776798379.7/19

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.521+/-0.000 χ^2/NDF : 6736291120.8/23

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

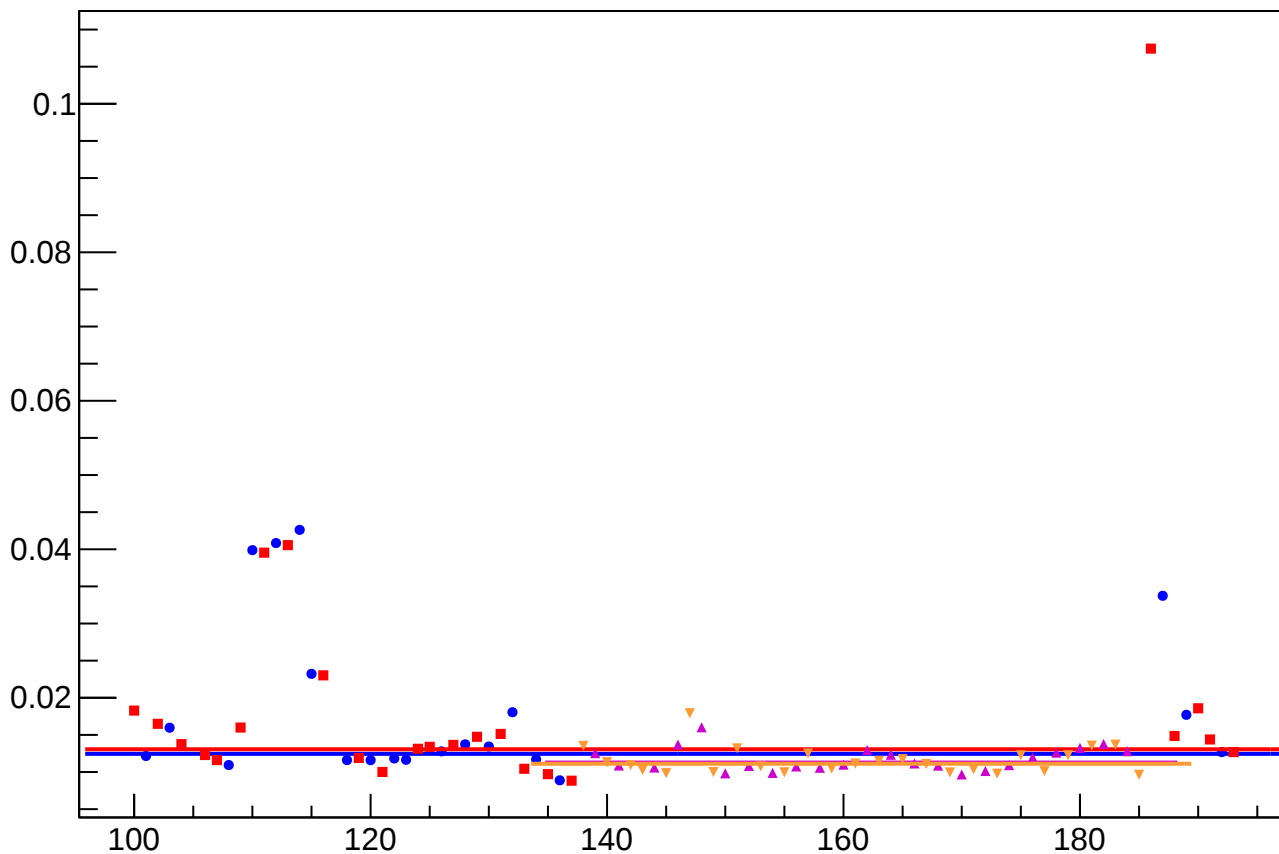
Right: 0.516+/-0.000 χ^2/NDF : 12515542023.0/43

In: 0.380+/-0.000 χ^2/NDF :6810339183.1/42

Out: 0.381+/-0.000 χ^2/NDF :7960314647.1/48

All: 0.381+/-0.000 χ^2/NDF : 14770879419.4/9

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1493493.2/19

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1915330.5/23

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502226.7/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113859.9/47

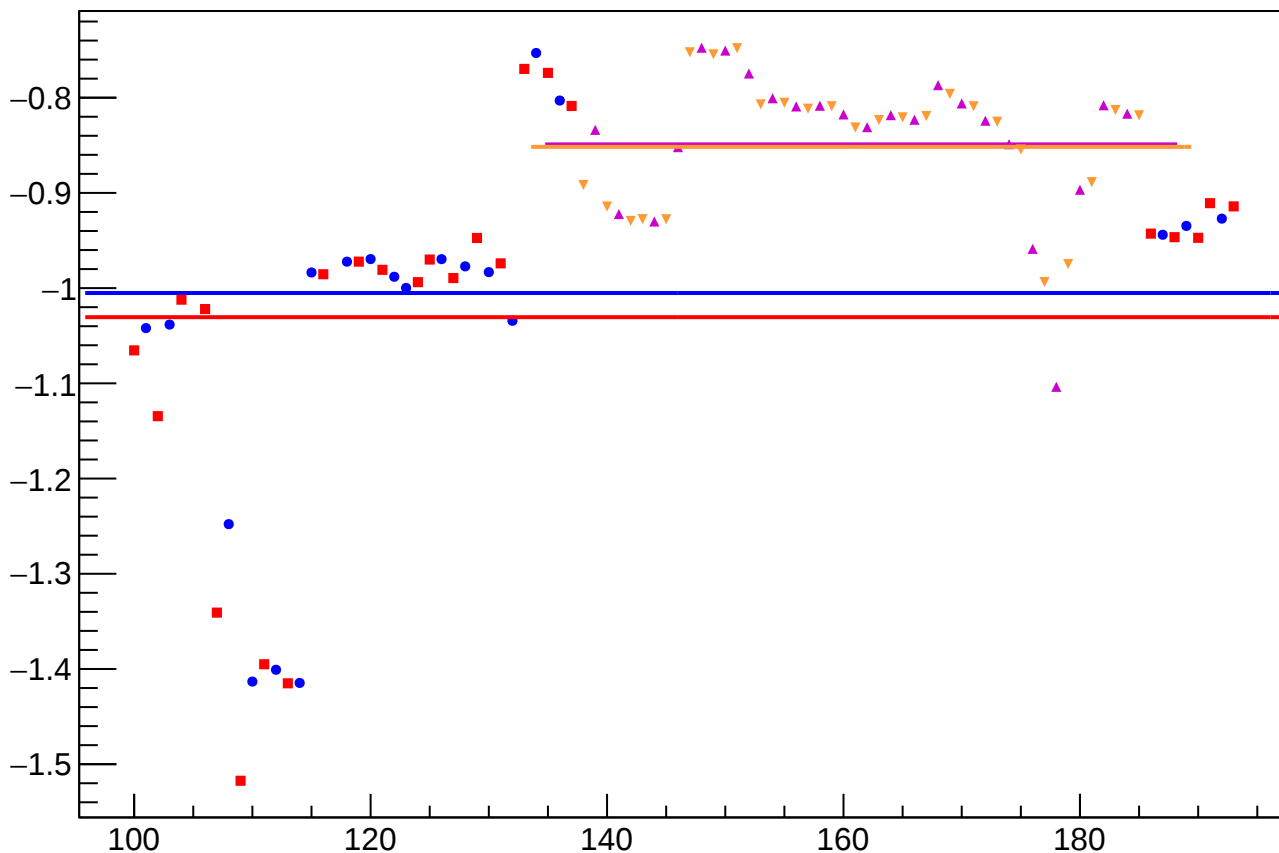
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3426214.2/43

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2087461.3/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2790940.2/48

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4878537.7/91

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.005 $\pm$ 0.000 χ^2 /NDF: 395592217.4/19

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.031 $\pm$ 0.000 χ^2 /NDF: 543011357.9/23

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

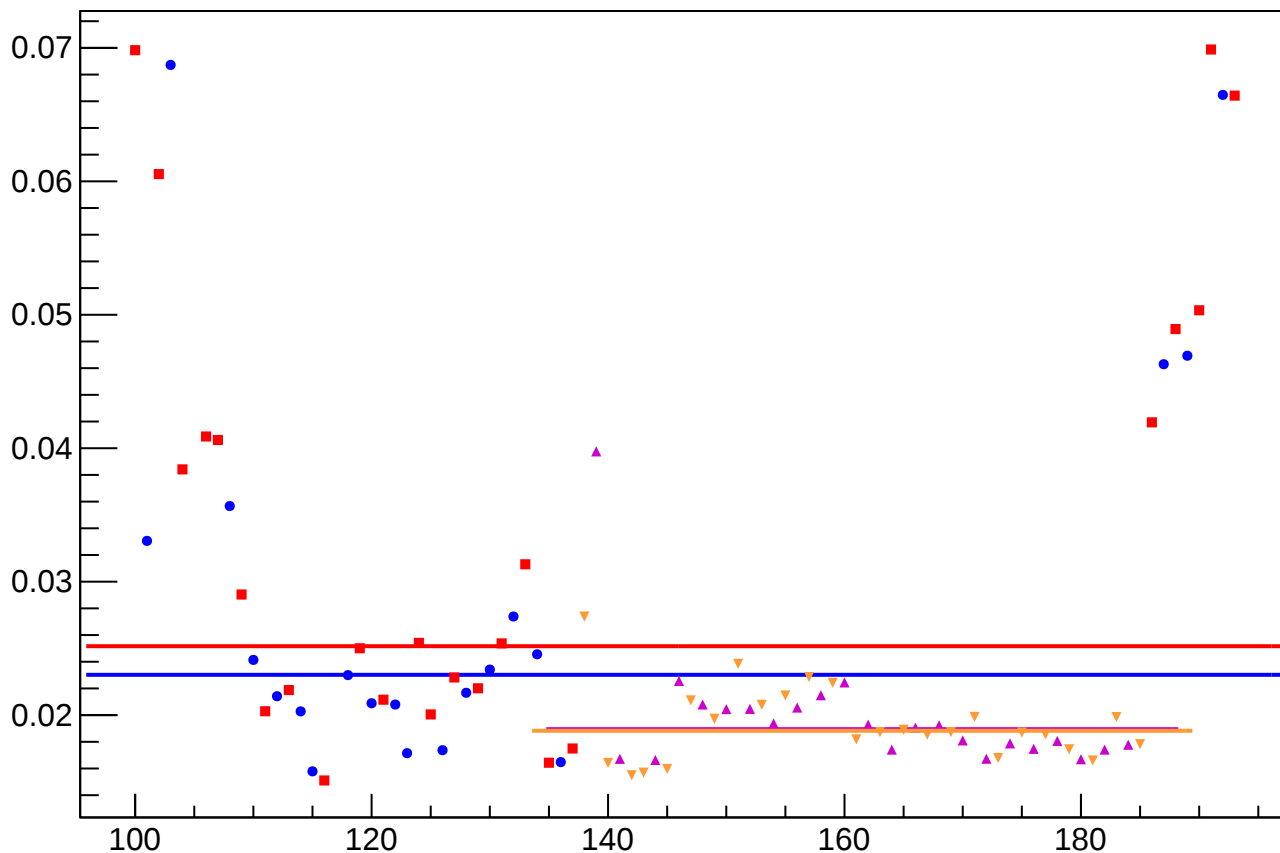
Right: -1.018 $\pm$ 0.000 χ^2 /NDF: 942191384.0/43

In: -0.884 $\pm$ 0.000 χ^2 /NDF:863802088.2/42

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1012456574.9/48

All: -0.886 $\pm$ 0.000 χ^2 /NDF: 1876972582.3/99

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 2075419.3/19

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.025+/-0.000 χ^2/NDF : 2688602.4/23

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

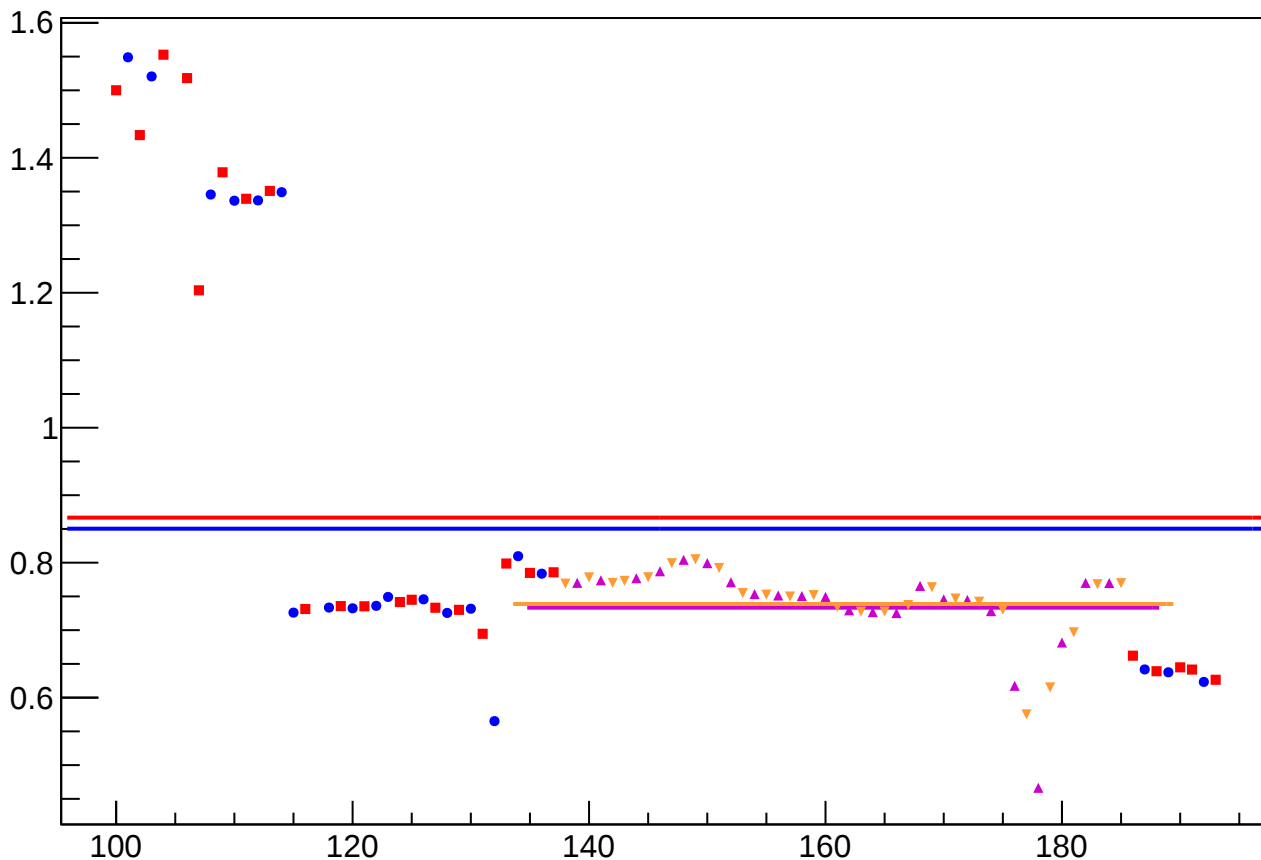
Right: 0.024+/-0.000 χ^2/NDF : 4815167.9/43

In: 0.020+/-0.000 χ^2/NDF : 3008712.5/42

Out: 0.020+/-0.000 χ^2/NDF : 3882067.5/48

All: 0.020+/-0.000 χ^2/NDF : 6895325.7/91

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.850 ± 0.000 $\chi^2/\text{NDF}: 2727924894.2/19$

Left Out: 0.739 ± 0.000 $\chi^2/\text{NDF}: 333086309.0/24$

Right Out: 0.867 ± 0.000 $\chi^2/\text{NDF}: 2929717313.3/23$

Left In: 0.733 ± 0.000 $\chi^2/\text{NDF}: 570264411.7/22$

Left: 0.736 ± 0.000 $\chi^2/\text{NDF}: 905100069.4/47$

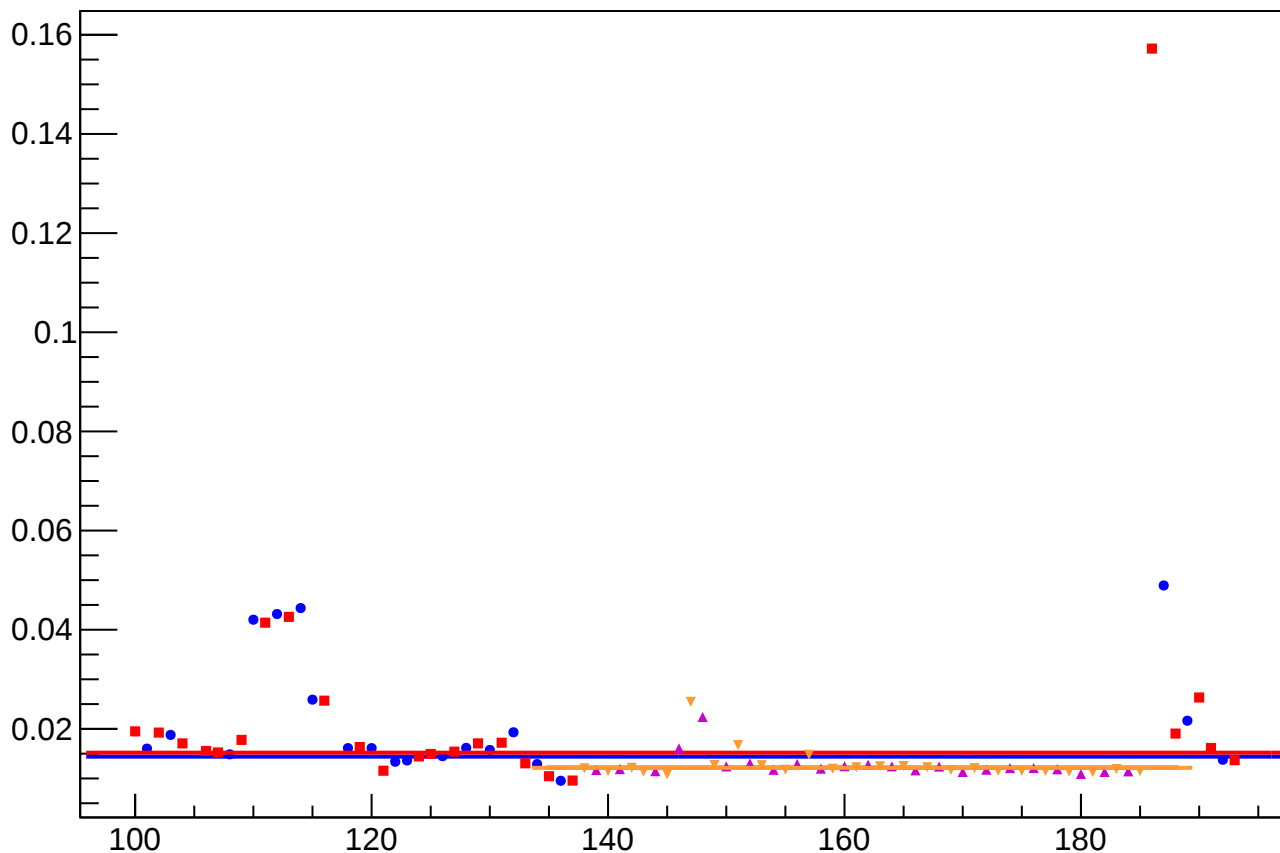
Right: 0.859 ± 0.000 $\chi^2/\text{NDF}: 5662172379.8/43$

In: 0.760 ± 0.000 $\chi^2/\text{NDF}: 3648320475.8/42$

Out: 0.767 ± 0.000 $\chi^2/\text{NDF}: 3701490619.7/48$

All: 0.764 ± 0.000 $\chi^2/\text{NDF}: 7354237520.3/91$

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1632047.0/19

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2047970.2/23

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

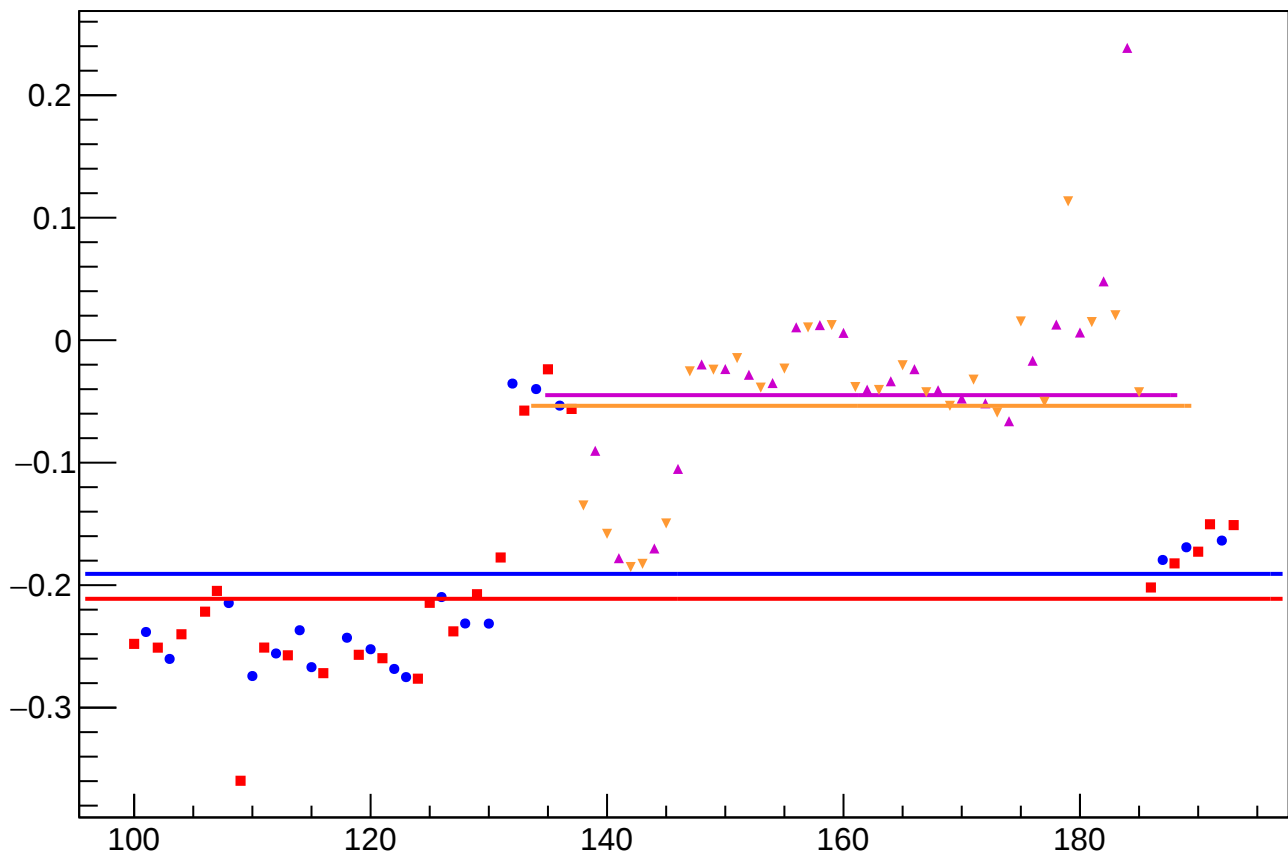
Right: 0.015+/-0.000 χ^2/NDF : 3701873.0/43

In: 0.013+/-0.000 χ^2/NDF : 2363117.9/42

Out: 0.013+/-0.000 χ^2/NDF : 3188958.6/48

All: 0.013+/-0.000 χ^2/NDF : 5554910.7/91

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191 ± 0.000 $\chi^2/\text{NDF}: 106186093.6/19$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 110822142.8/23$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

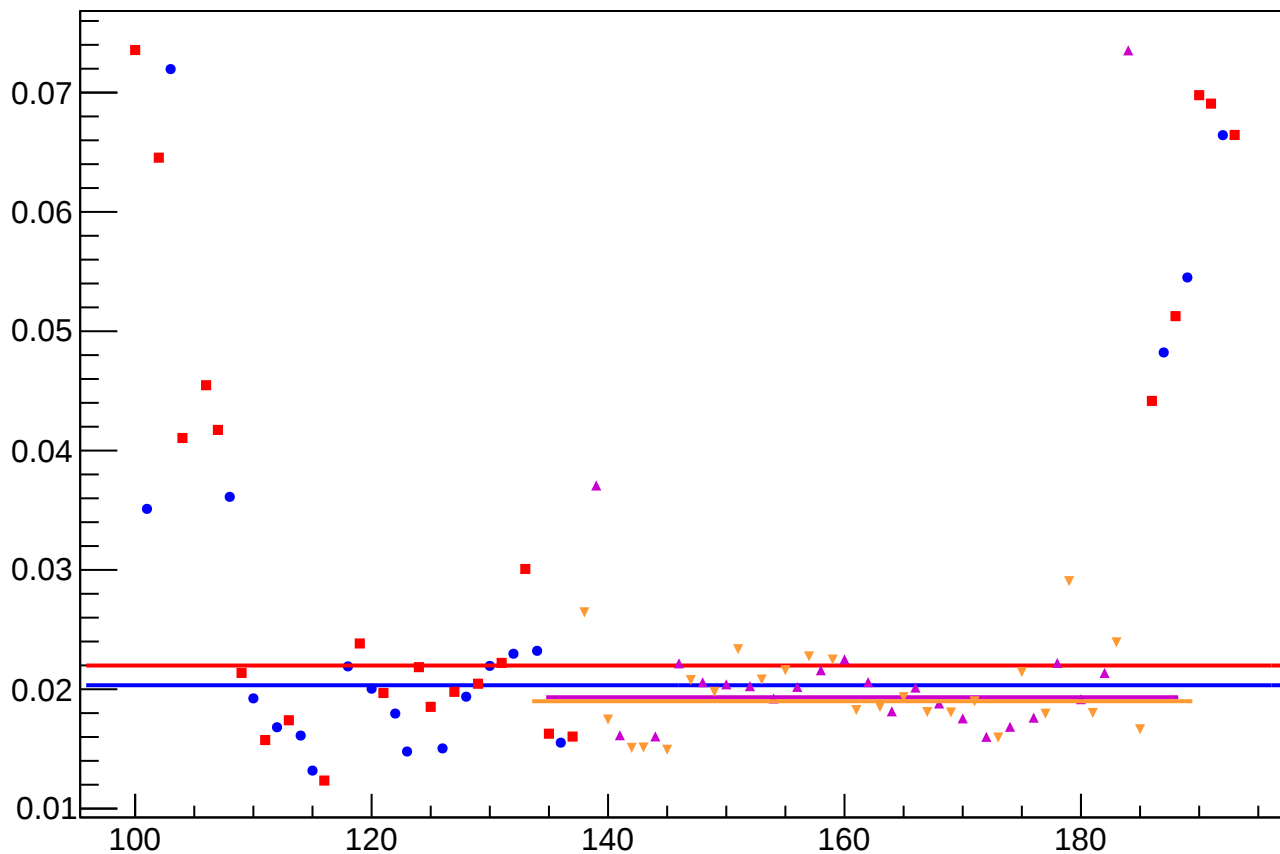
Right: -0.201 ± 0.000 $\chi^2/\text{NDF}: 219867793.9/43$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 448688520.3/42$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 533646041.2/48$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 984497557.7/91$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 2499822.5/19

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.022+/-0.000 χ^2/NDF : 3467652.3/23

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

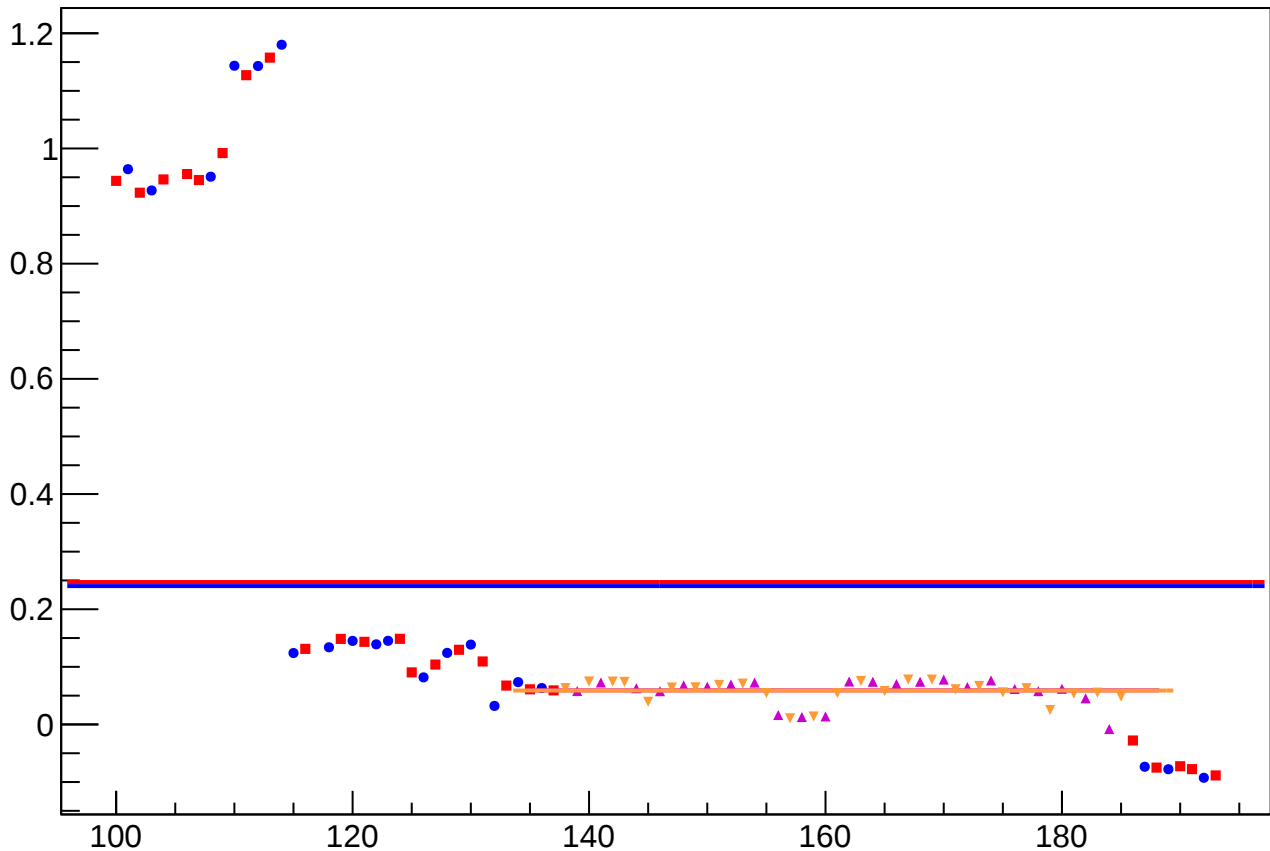
Right: 0.021+/-0.000 χ^2/NDF : 6005253.8/43

In: 0.020+/-0.000 χ^2/NDF : 3413016.2/42

Out: 0.020+/-0.000 χ^2/NDF : 4350798.2/48

All: 0.020+/-0.000 χ^2/NDF : 7765024.7/91

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.240+/-0.000 χ^2/NDF : 6073363266.0/19

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.247+/-0.000 χ^2/NDF : 6915571053.9/23

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

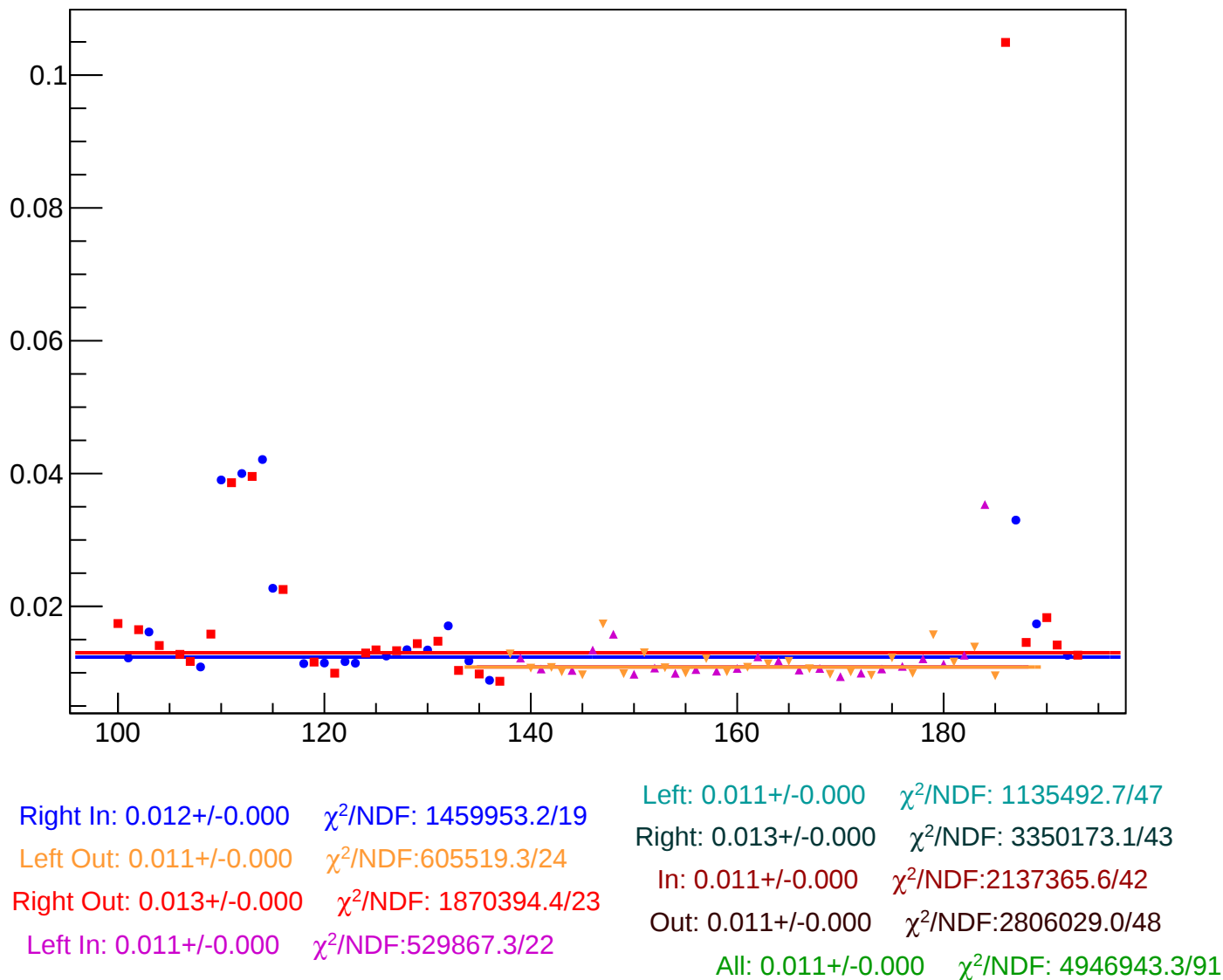
Right: 0.244+/-0.000 χ^2/NDF : 12990094938.9/43

In: 0.104+/-0.000 χ^2/NDF : 7248044000.9/42

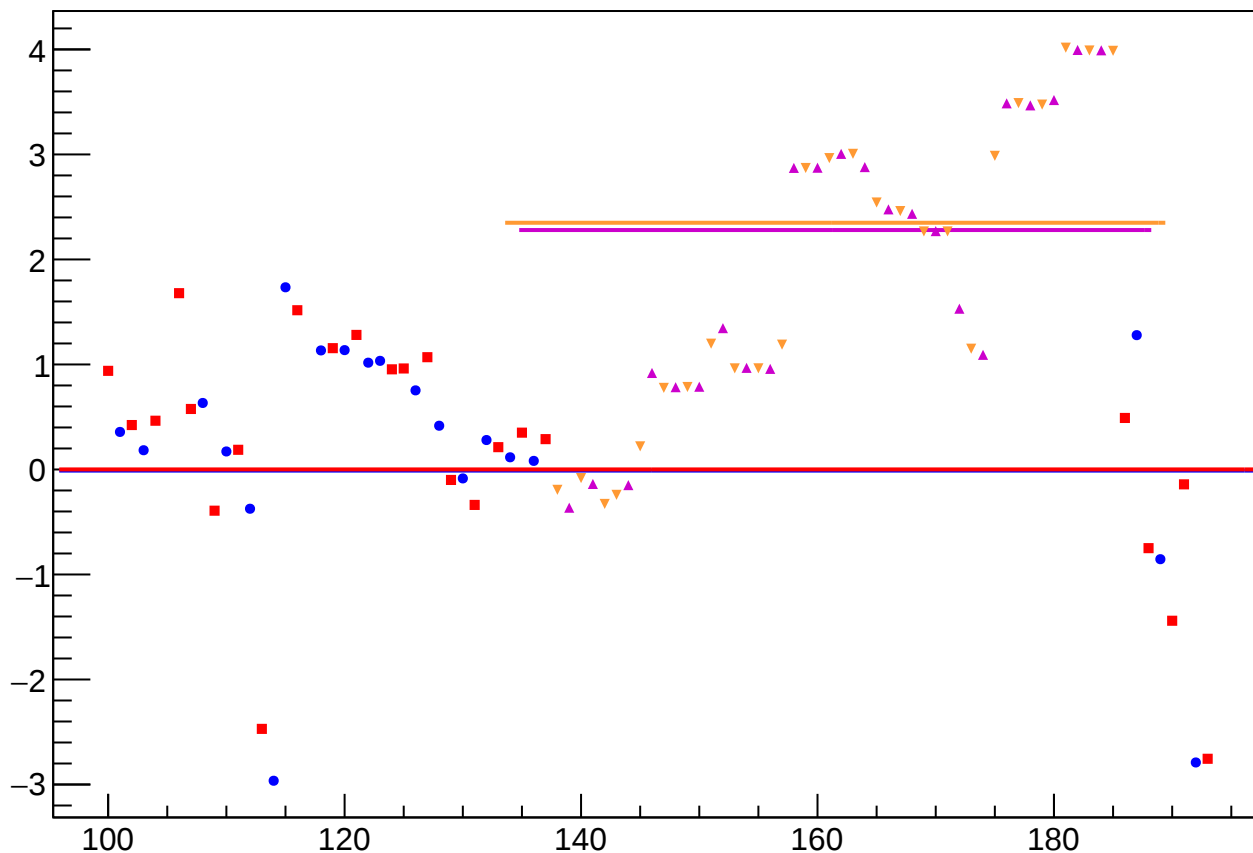
Out: 0.105+/-0.000 χ^2/NDF : 8225317607.8/48

All: 0.105+/-0.000 χ^2/NDF : 15473488006.5/95

yield_bpm4ecY_rms vs Slug, Sign Corrected



yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.011+/-0.000

χ^2/NDF : 2535341168.7/19

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

Right: -0.005+/-0.000 χ^2/NDF : 5643626049.1/43

Left Out: 2.349+/-0.000

χ^2/NDF : 63600066268.3/24

In: 2.188+/-0.000 χ^2/NDF : 75046825006.1/42

Right Out: 0.001+/-0.000

χ^2/NDF : 3108141238.4/23

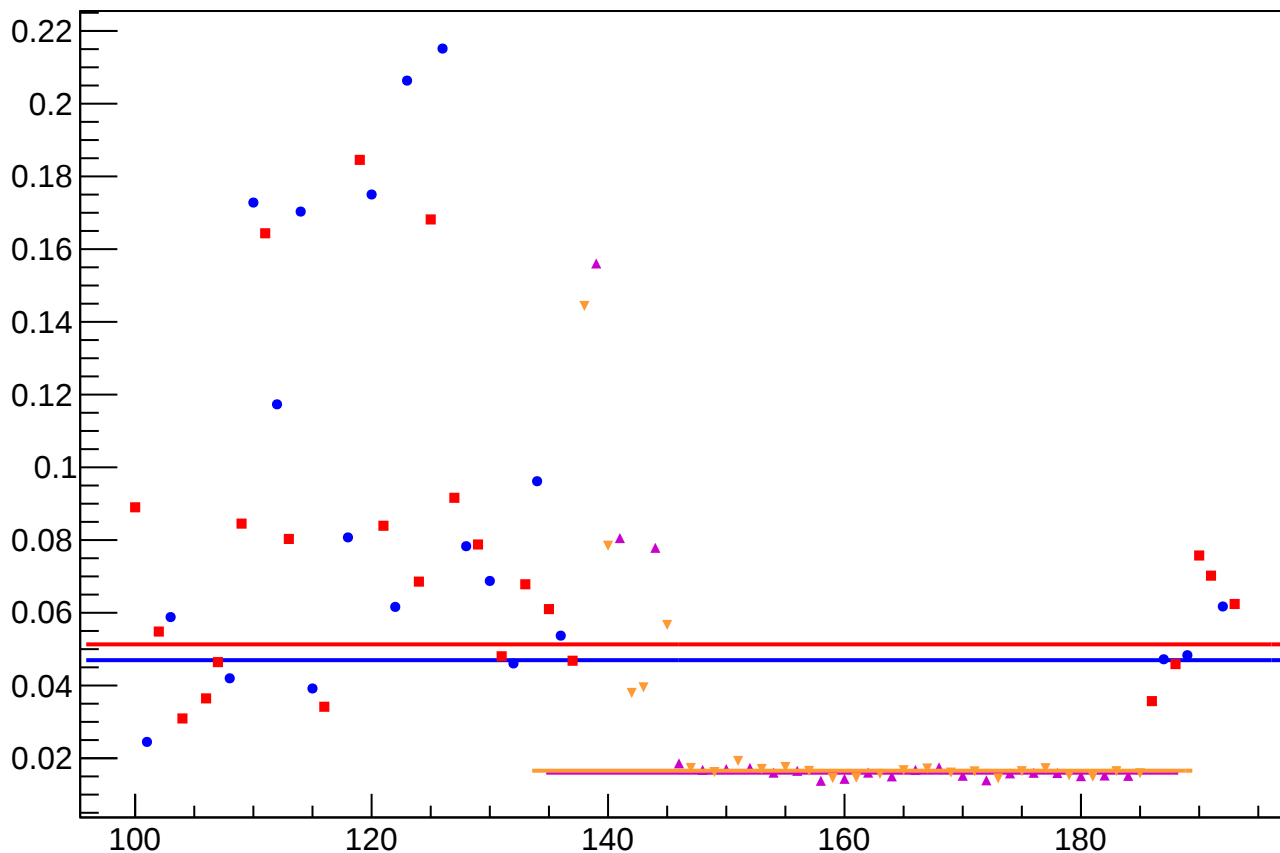
Out: 2.243+/-0.000 χ^2/NDF : 79434598167.4/48

Left In: 2.280+/-0.000

χ^2/NDF : 61444254541.3/22

All: 2.215+/-0.000 χ^2/NDF : 154565914782.9

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 2890396.2/19

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.051+/-0.000 χ^2/NDF : 2479002.2/23

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

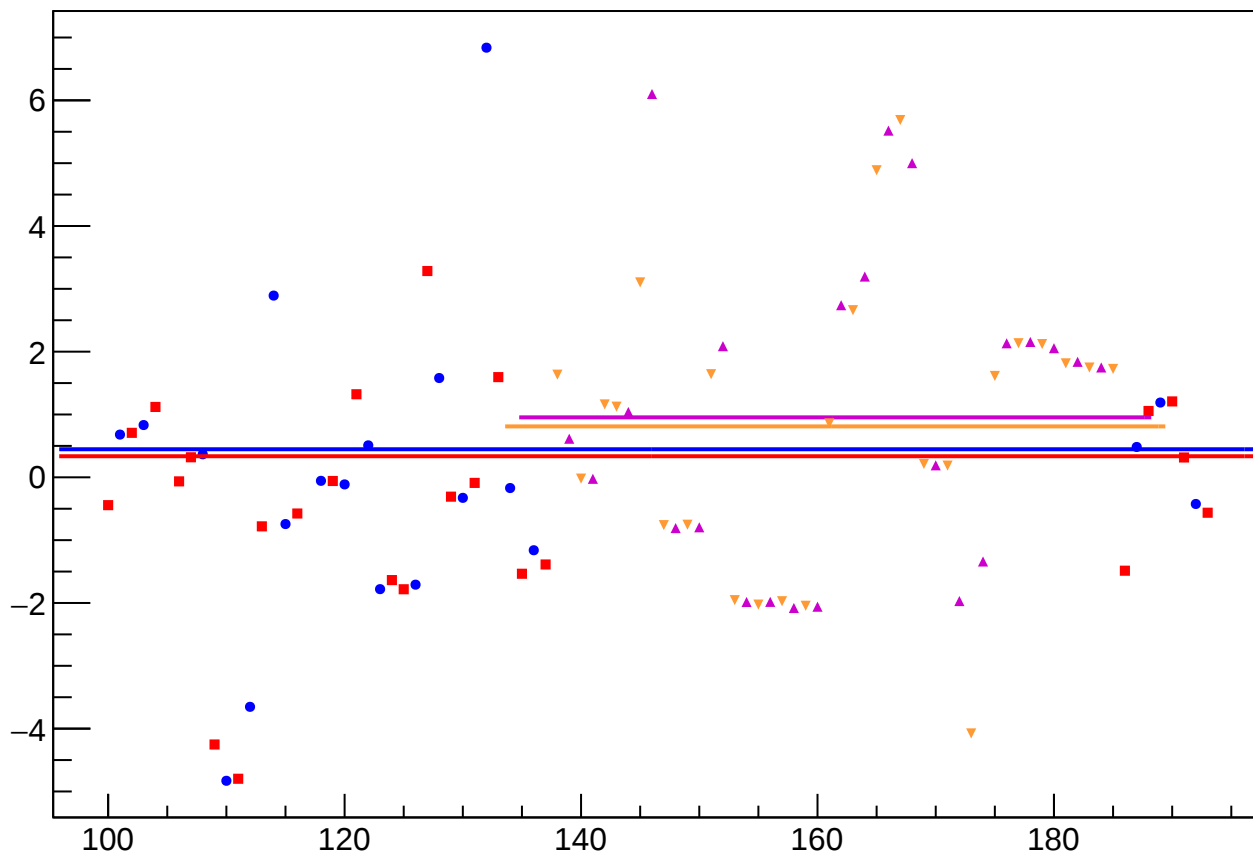
Right: 0.049+/-0.000 χ^2/NDF : 5412830.6/43

In: 0.017+/-0.000 χ^2/NDF : 9391711.5/42

Out: 0.018+/-0.000 χ^2/NDF : 10668941.9/48

All: 0.018+/-0.000 χ^2/NDF : 20100824.6/91

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.447 $\pm$ 0.000 χ^2 /NDF: 13728449066.0/19

Left Out: 0.810 $\pm$ 0.000 χ^2 /NDF: 507583198570.2/24

Right Out: 0.336 $\pm$ 0.000 χ^2 /NDF: 7569451100.1/23

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

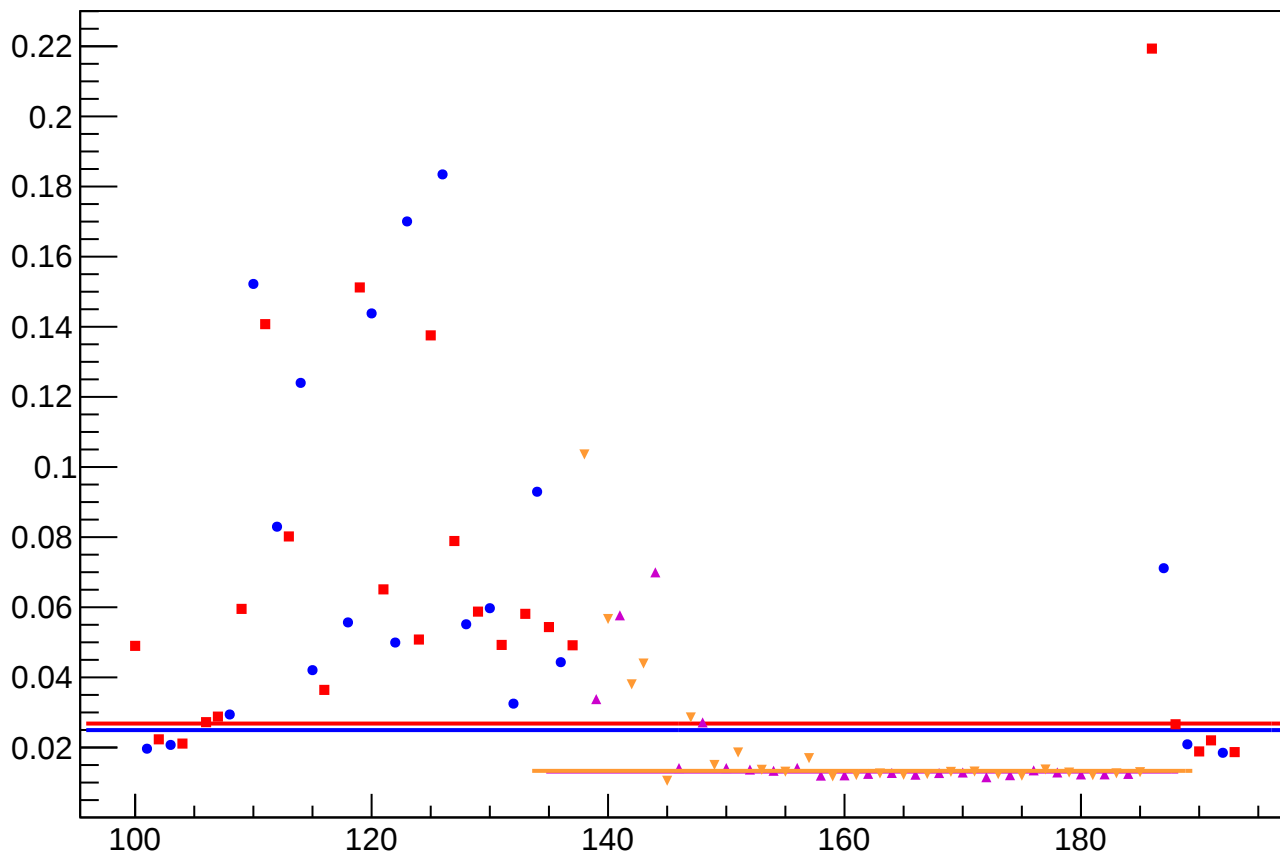
Right: 0.389 $\pm$ 0.000 χ^2 /NDF: 21343002434.4/43

In: 0.915 $\pm$ 0.000 χ^2 /NDF: 590207680276.6/42

Out: 0.772 $\pm$ 0.000 χ^2 /NDF: 516715758198.0/48

All: 0.844 $\pm$ 0.000 χ^2 /NDF: 1107882128265.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 3457121.6/19

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.027+/-0.000 χ^2/NDF : 4256388.6/23

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

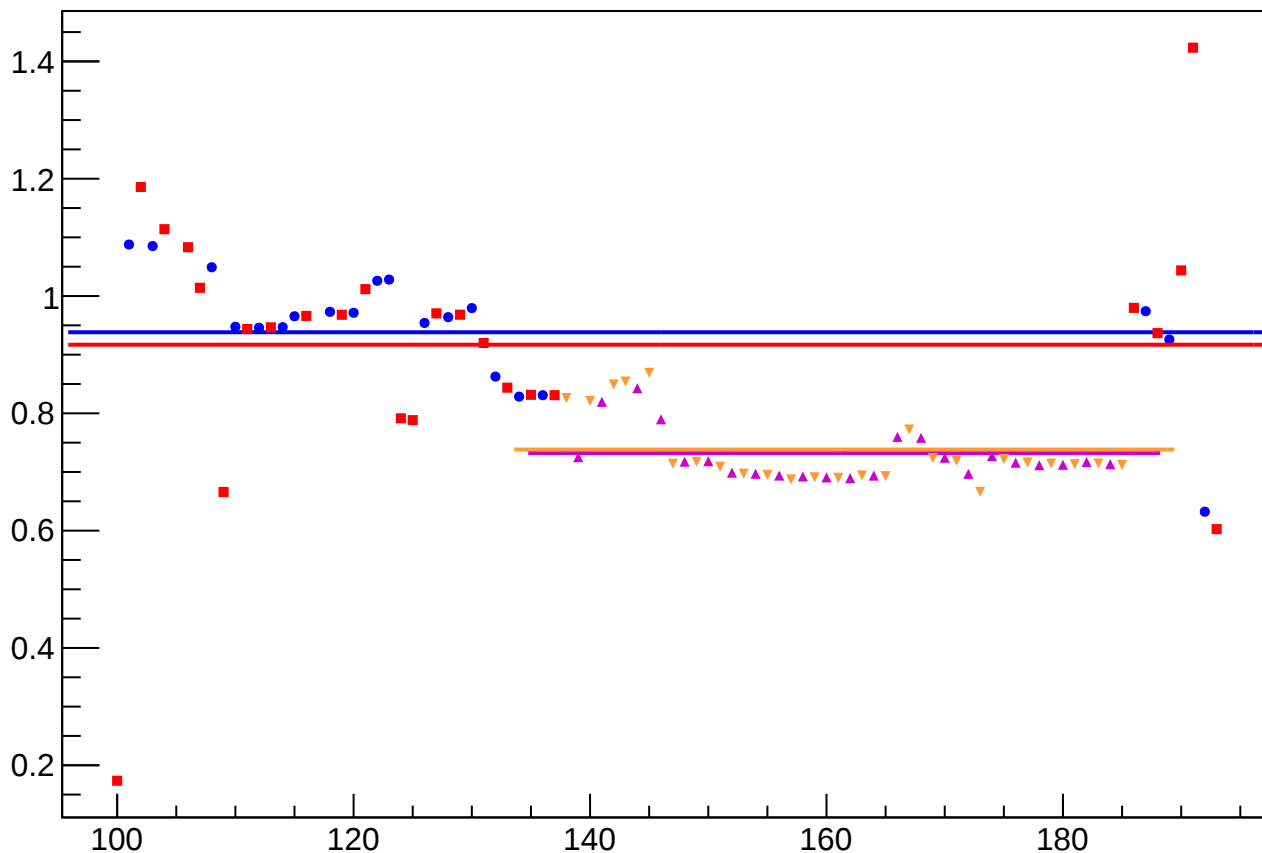
Right: 0.026+/-0.000 χ^2/NDF : 7738994.7/43

In: 0.014+/-0.000 χ^2/NDF : 7257019.5/42

Out: 0.014+/-0.000 χ^2/NDF : 9609598.9/48

All: 0.014+/-0.000 χ^2/NDF : 16881523.8/91

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.938 $\pm$ 0.000 χ^2/NDF : 298477349.9/19

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF :310610047.7/24

Right Out: 0.917 $\pm$ 0.000 χ^2/NDF : 553361882.5/23

Left In: 0.732 $\pm$ 0.000 χ^2/NDF :170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2/NDF : 482865670.9/47

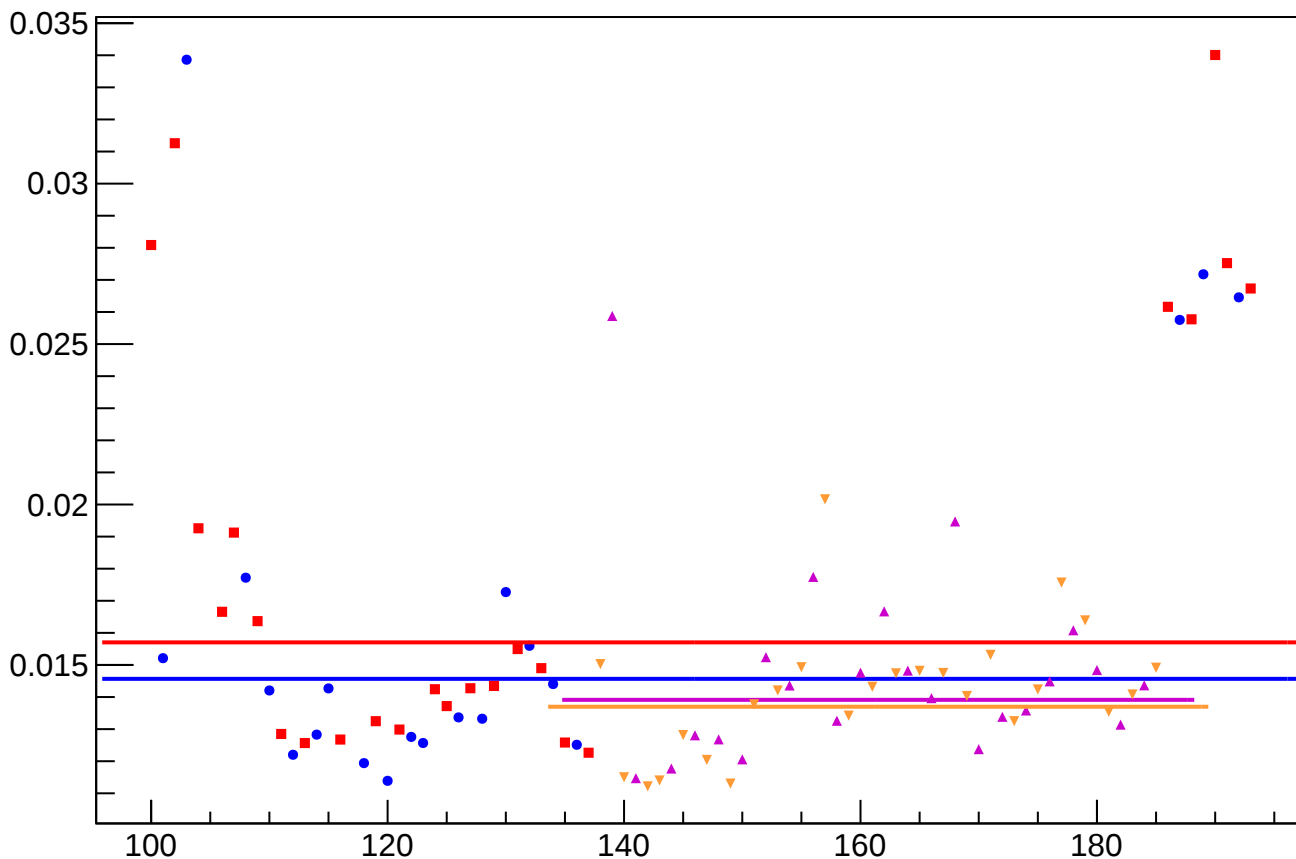
Right: 0.928 $\pm$ 0.000 χ^2/NDF : 859170379.6/43

In: 0.791 $\pm$ 0.000 χ^2/NDF :1446737740.5/42

Out: 0.787 $\pm$ 0.000 χ^2/NDF :1621048795.5/48

All: 0.789 $\pm$ 0.000 χ^2/NDF : 3068800436.1/91

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1164991.0/19

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1499233.8/23

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

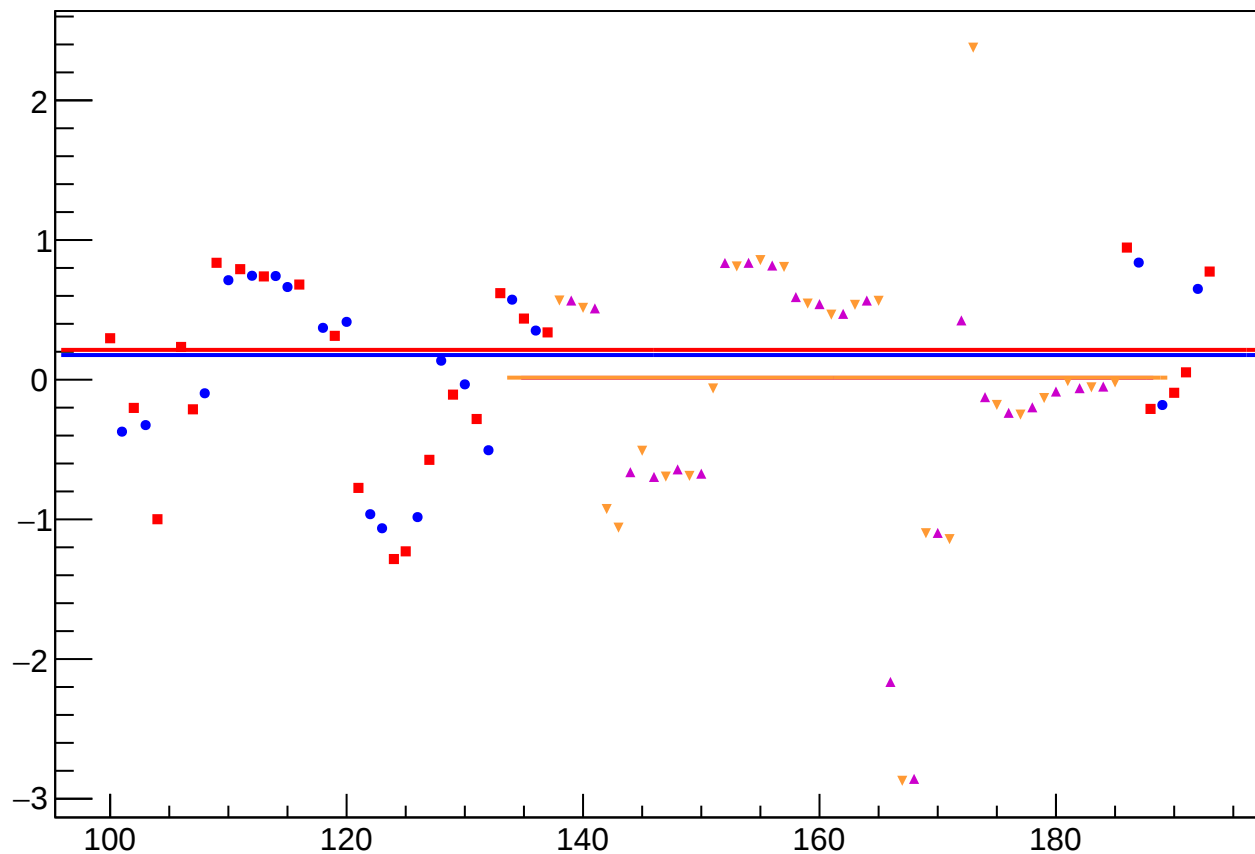
Right: 0.015+/-0.000 χ^2/NDF : 2706156.2/43

In: 0.014+/-0.000 χ^2/NDF : 1979285.2/42

Out: 0.014+/-0.000 χ^2/NDF : 2220633.1/48

All: 0.014+/-0.000 χ^2/NDF : 4202416.9/91

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.176+/-0.000 χ^2/NDF : 9162071315.7/19

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.213+/-0.000 χ^2/NDF : 15694601949.0/23

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

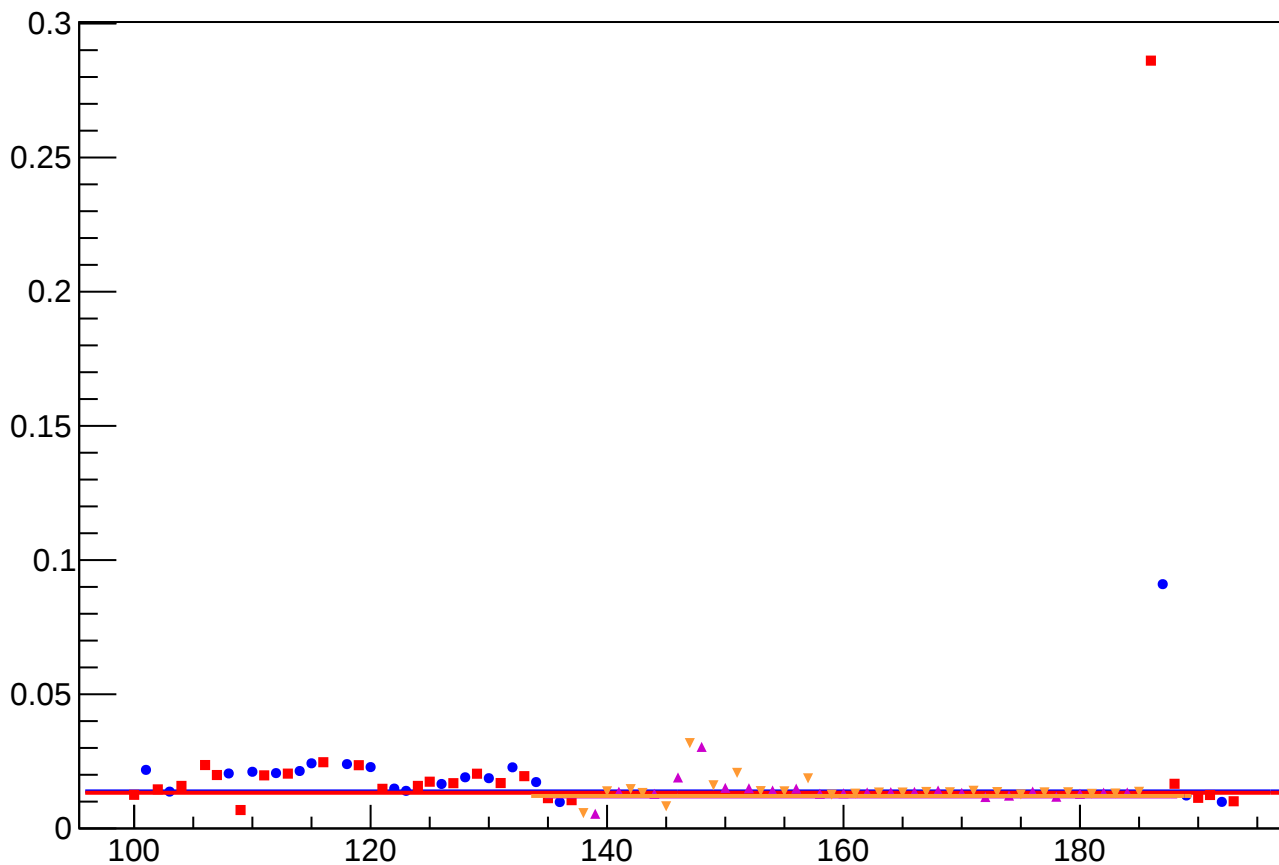
Right: 0.197+/-0.000 χ^2/NDF : 24882544689.8/43

In: 0.053+/-0.000 χ^2/NDF : 89308642893.8/42

Out: 0.069+/-0.000 χ^2/NDF : 112970198094.5/48

All: 0.062+/-0.000 χ^2/NDF : 202297622101.5

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1748900.9/19

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3107648.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2426146.8/23

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

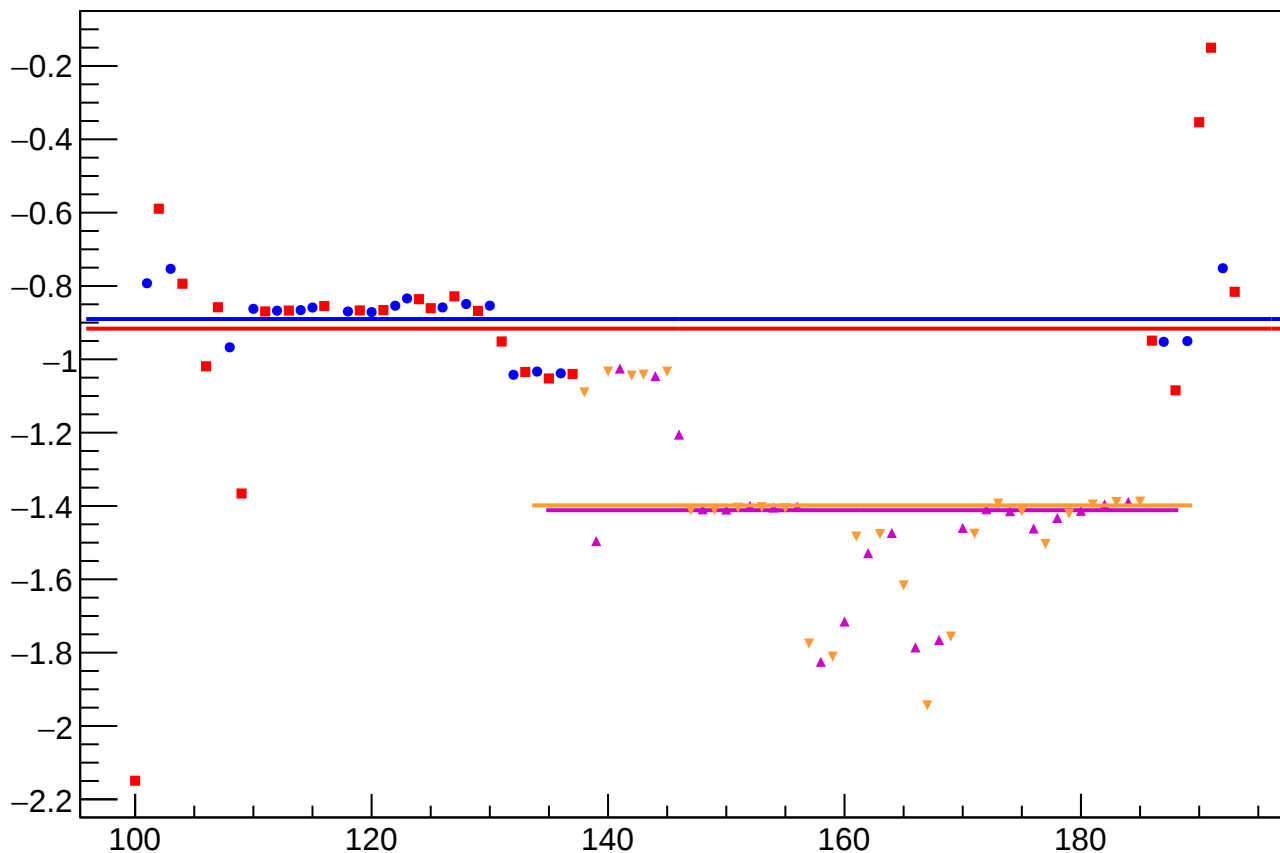
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 4184669.0/43

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5040426.2/42

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5618788.6/48

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10659596.4/91

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.890 ± 0.000 $\chi^2/\text{NDF}: 43809356.8/19$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.916 ± 0.000 $\chi^2/\text{NDF}: 187357943.0/23$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

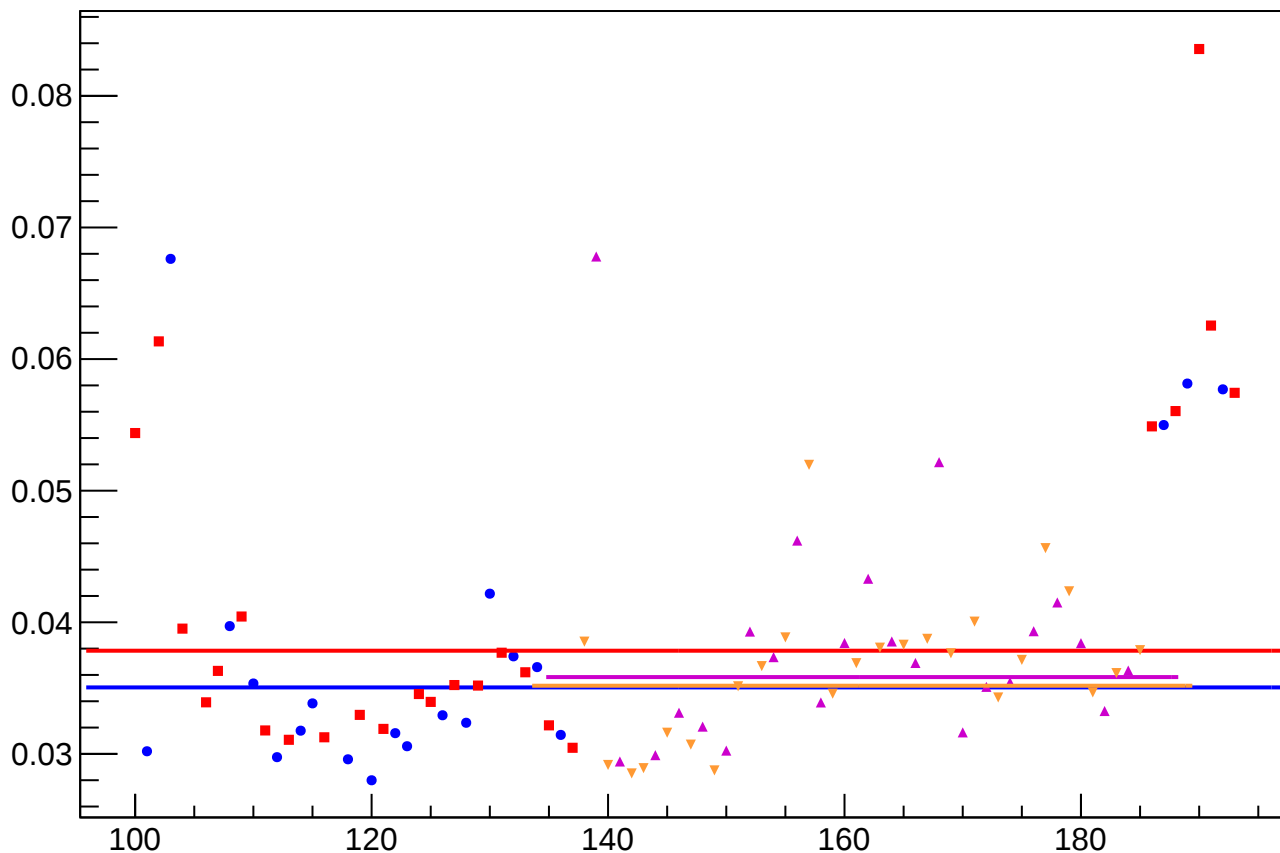
Right: -0.903 ± 0.000 $\chi^2/\text{NDF}: 233128226.1/43$

In: -1.244 ± 0.000 $\chi^2/\text{NDF}: 1604805582.8/42$

Out: -1.251 ± 0.000 $\chi^2/\text{NDF}: 1847554182.2/48$

All: -1.247 ± 0.000 $\chi^2/\text{NDF}: 3452804324.2/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.035+/-0.000 χ^2/NDF : 873043.1/19

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.038+/-0.000 χ^2/NDF : 1046816.2/23

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

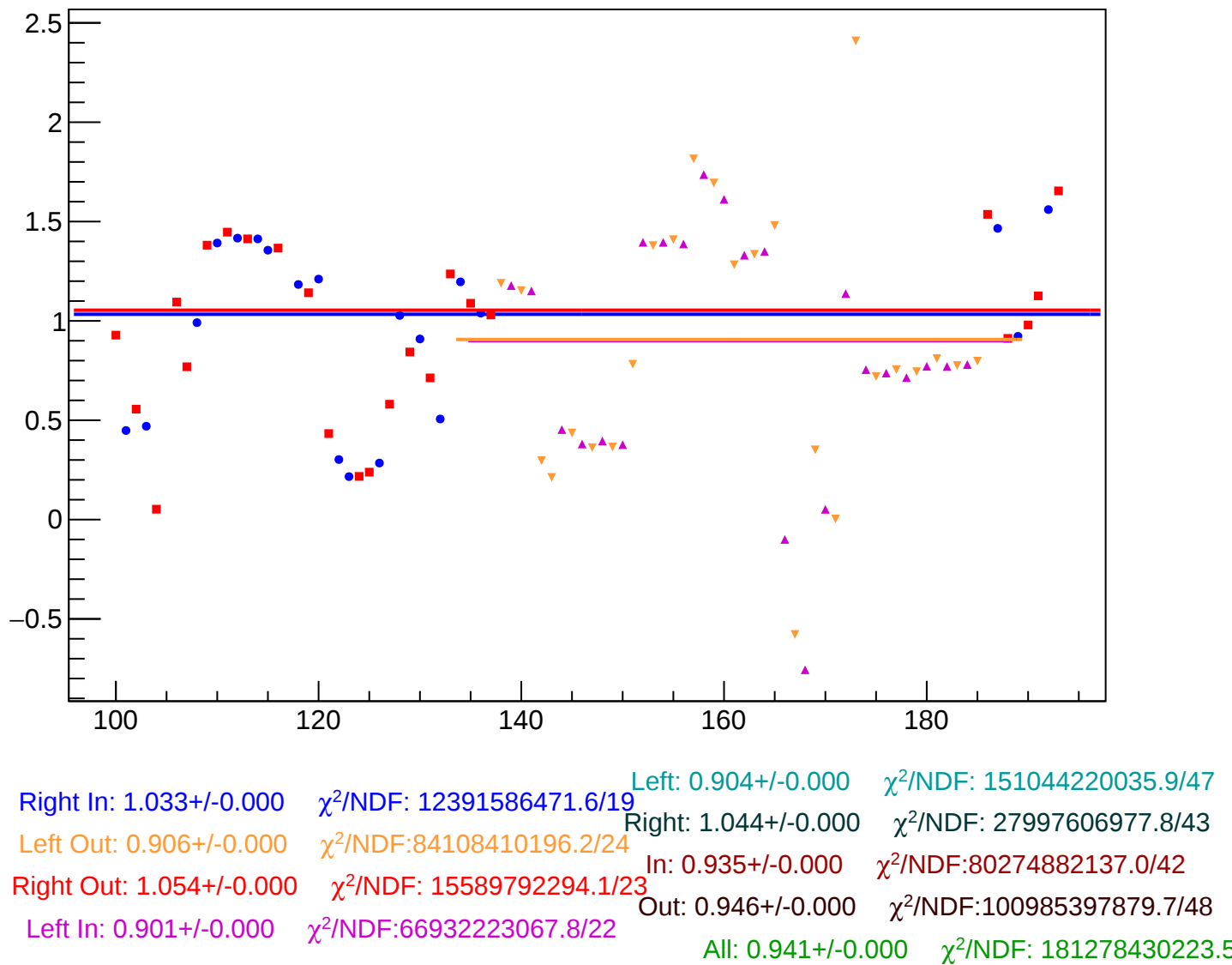
Right: 0.036+/-0.000 χ^2/NDF : 1964311.9/43

In: 0.036+/-0.000 χ^2/NDF : 1768795.7/42

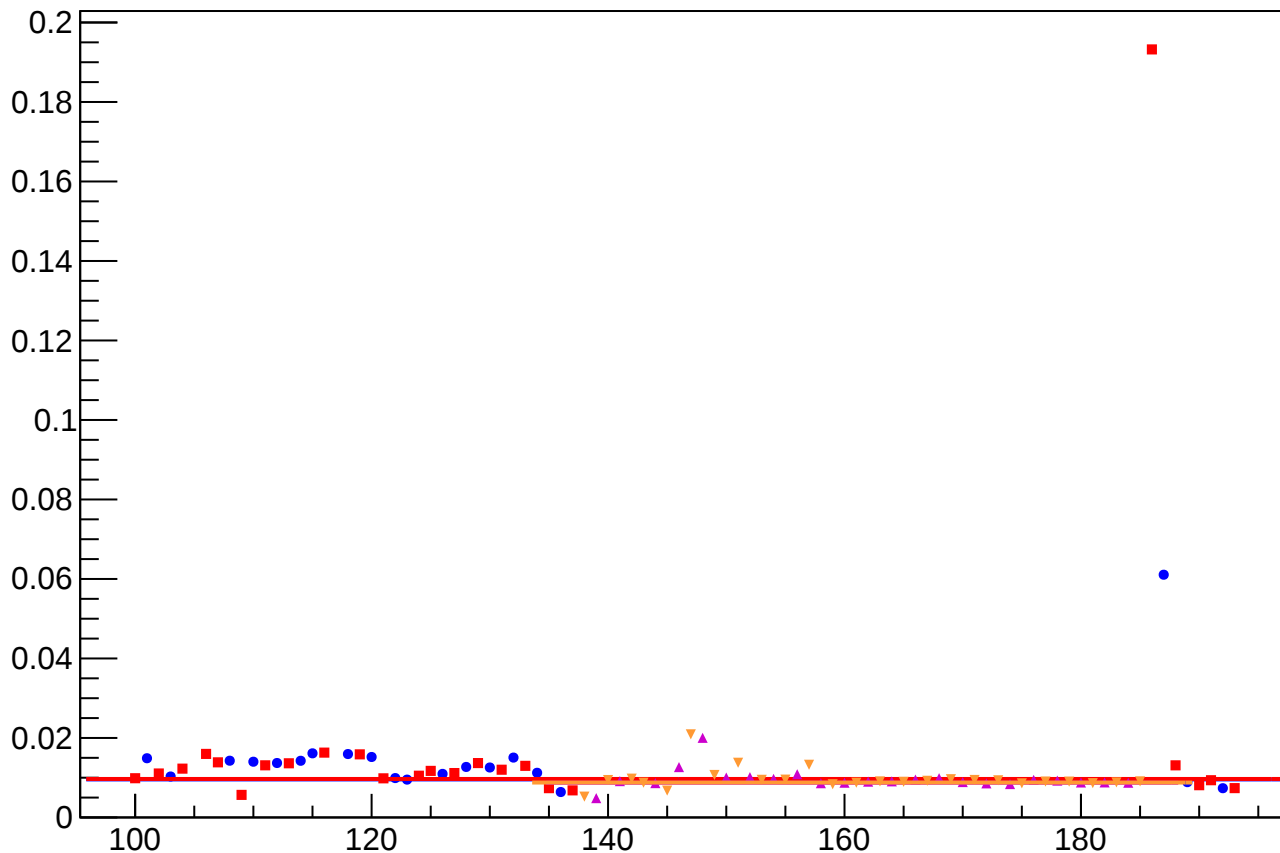
Out: 0.036+/-0.000 χ^2/NDF : 1701061.0/48

All: 0.036+/-0.000 χ^2/NDF : 3472938.6/91

yield_bpm12Y_mean vs Slug, Sign Corrected



yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1623370.1/19

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.010+/-0.000 χ^2/NDF : 2075922.3/23

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

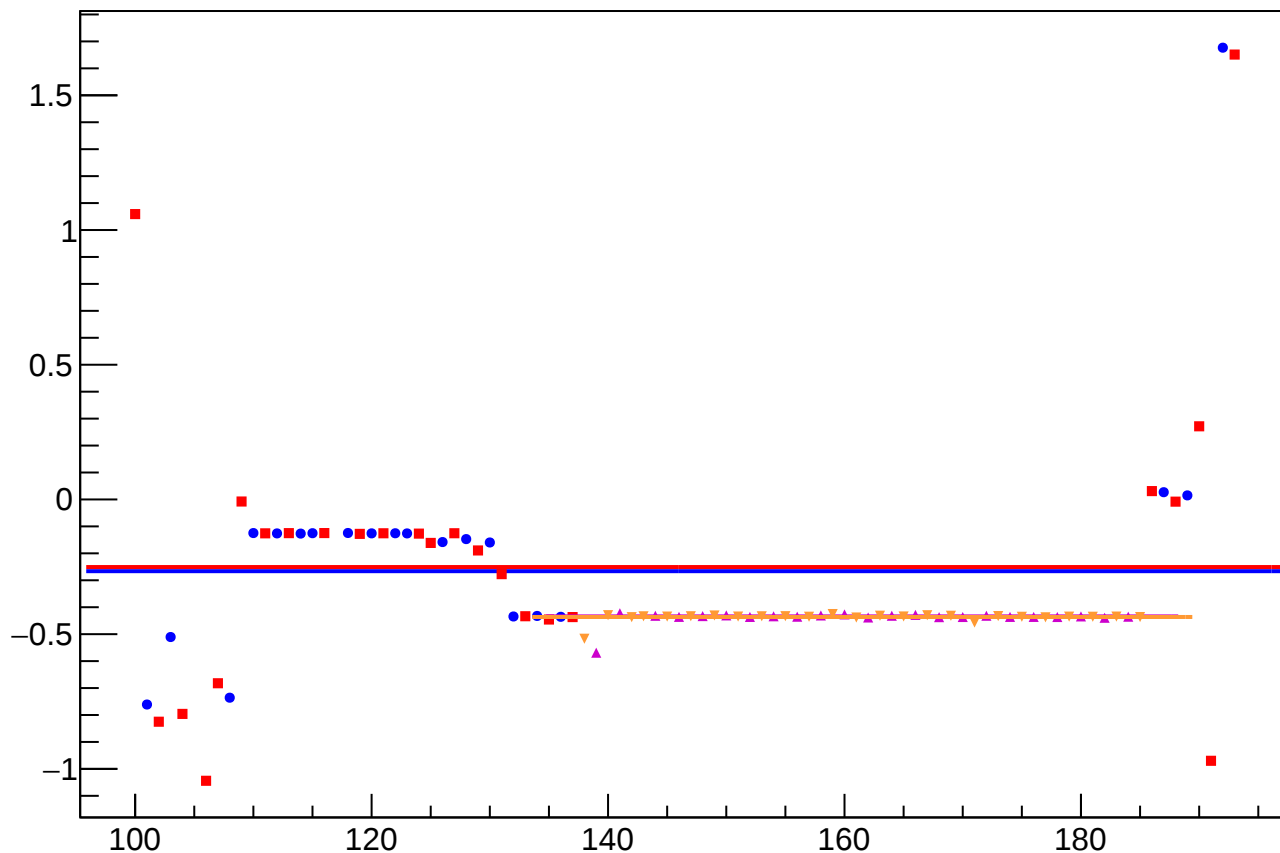
Right: 0.010+/-0.000 χ^2/NDF : 3700285.4/43

In: 0.009+/-0.000 χ^2/NDF : 3368443.5/42

Out: 0.009+/-0.000 χ^2/NDF : 3870158.1/48

All: 0.009+/-0.000 χ^2/NDF : 7240225.0/91

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.266+/-0.000 χ^2/NDF : 1851391905.2/19

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.251+/-0.000 χ^2/NDF : 1745705766.8/23

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

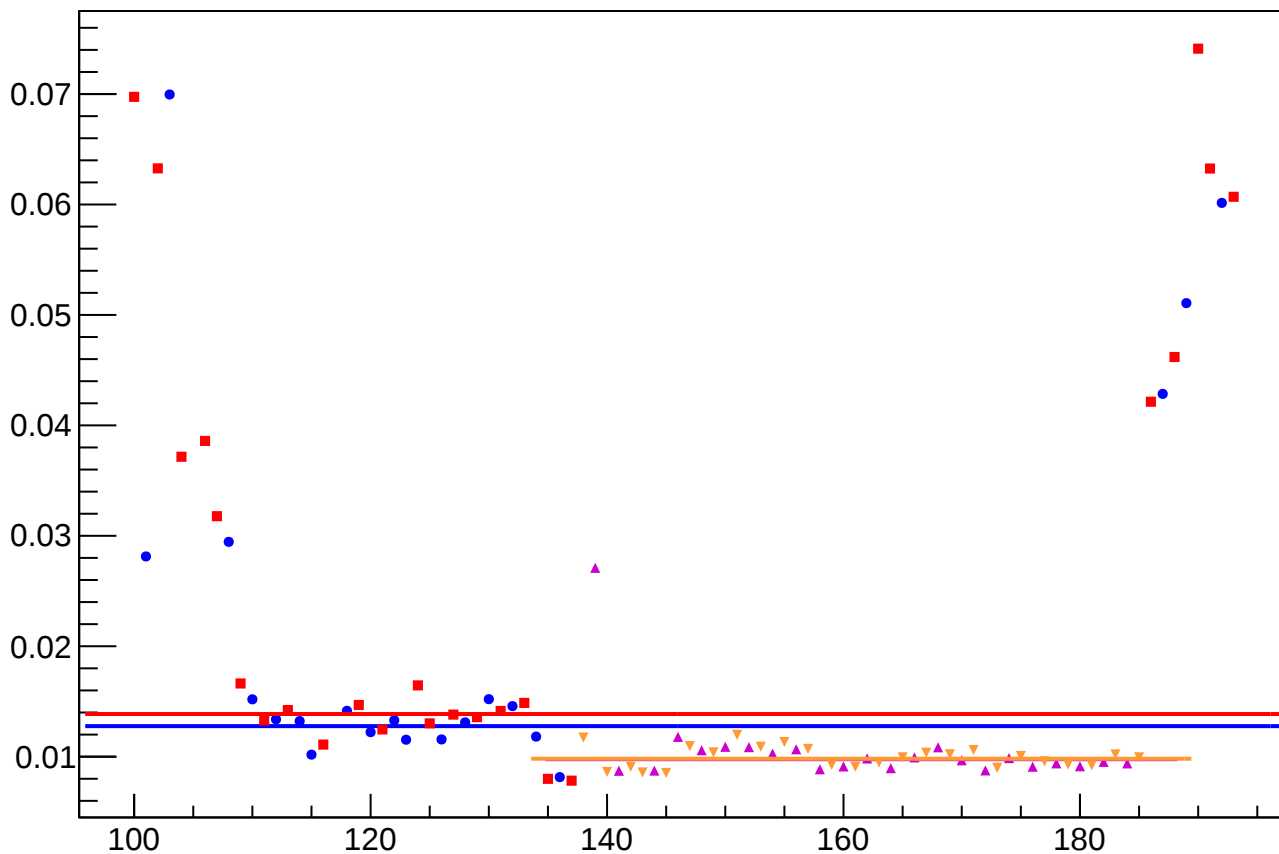
Right: -0.259+/-0.000 χ^2/NDF : 3600779880.5/43

In: -0.405+/-0.000 χ^2/NDF : 2616433046.7/42

Out: -0.407+/-0.000 χ^2/NDF : 2660055068.4/48

All: -0.406+/-0.000 χ^2/NDF : 5276778604.2/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 3426613.7/19

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.014+/-0.000 χ^2/NDF : 4747445.9/23

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

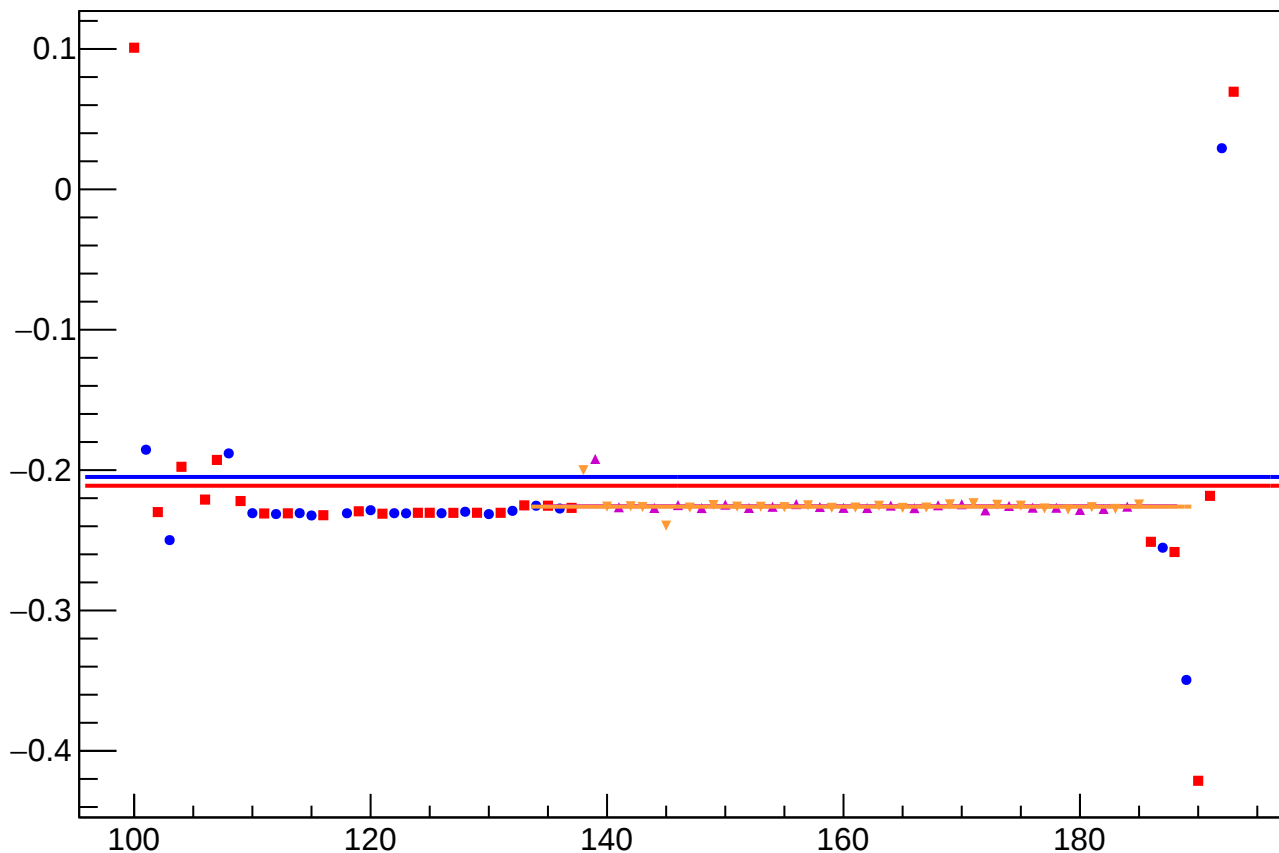
Right: 0.013+/-0.000 χ^2/NDF : 8211690.4/43

In: 0.010+/-0.000 χ^2/NDF : 4687374.4/42

Out: 0.010+/-0.000 χ^2/NDF : 5863342.3/48

All: 0.010+/-0.000 χ^2/NDF : 10556066.4/91

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 $\chi^2/\text{NDF}: 1873642421.4/19$

Left Out: -0.226 ± 0.000 $\chi^2/\text{NDF}: 21207366.3/24$

Right Out: -0.211 ± 0.000 $\chi^2/\text{NDF}: 2427247434.4/23$

Left In: -0.226 ± 0.000 $\chi^2/\text{NDF}: 13717302.5/22$

Left: -0.226 ± 0.000 $\chi^2/\text{NDF}: 34951372.2/47$

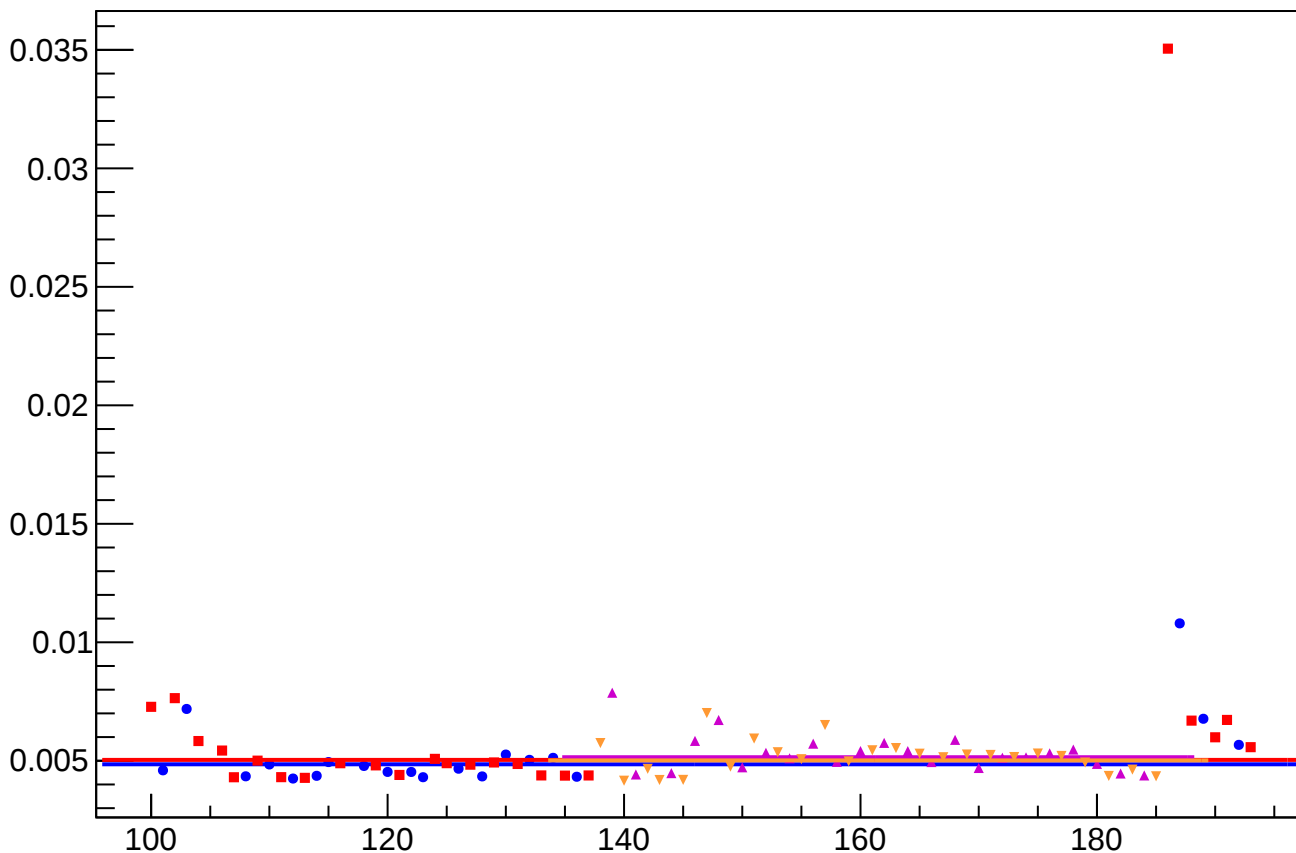
Right: -0.208 ± 0.000 $\chi^2/\text{NDF}: 4307182451.5/43$

In: -0.219 ± 0.000 $\chi^2/\text{NDF}: 1977122626.1/42$

Out: -0.221 ± 0.000 $\chi^2/\text{NDF}: 2498148024.0/48$

All: -0.220 ± 0.000 $\chi^2/\text{NDF}: 4478019084.9/99$

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 382547.5/19

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 966468.8/23

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

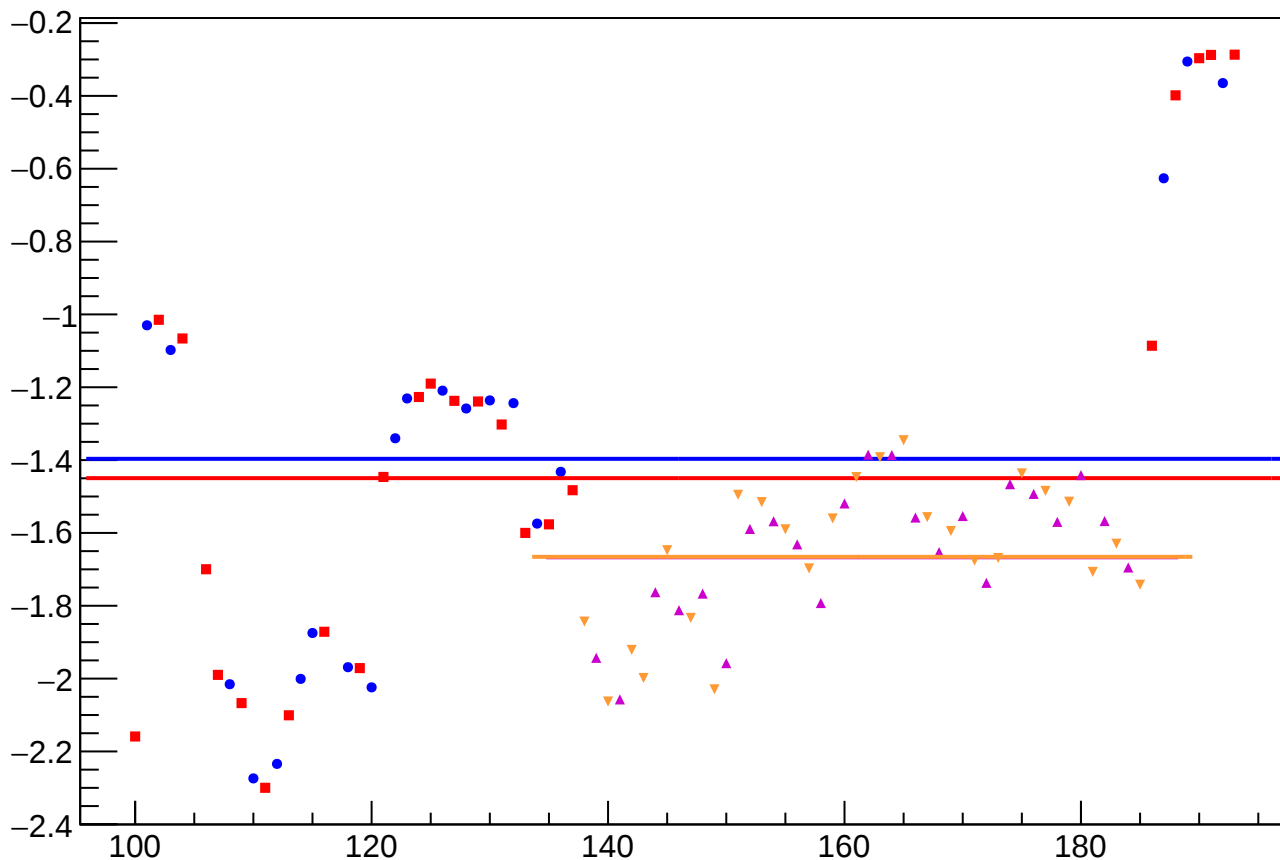
Right: 0.005+/-0.000 χ^2/NDF : 1360083.9/43

In: 0.005+/-0.000 χ^2/NDF : 923239.1/42

Out: 0.005+/-0.000 χ^2/NDF : 1499293.3/48

All: 0.005+/-0.000 χ^2/NDF : 2423247.9/91

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.397 $\pm$ 0.000 χ^2/NDF : 38021508096.0/19

Left Out: -1.666 $\pm$ 0.000 χ^2/NDF : 18368038680.8/24

Right Out: -1.450 $\pm$ 0.000 χ^2/NDF : 60093312759.0/23

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

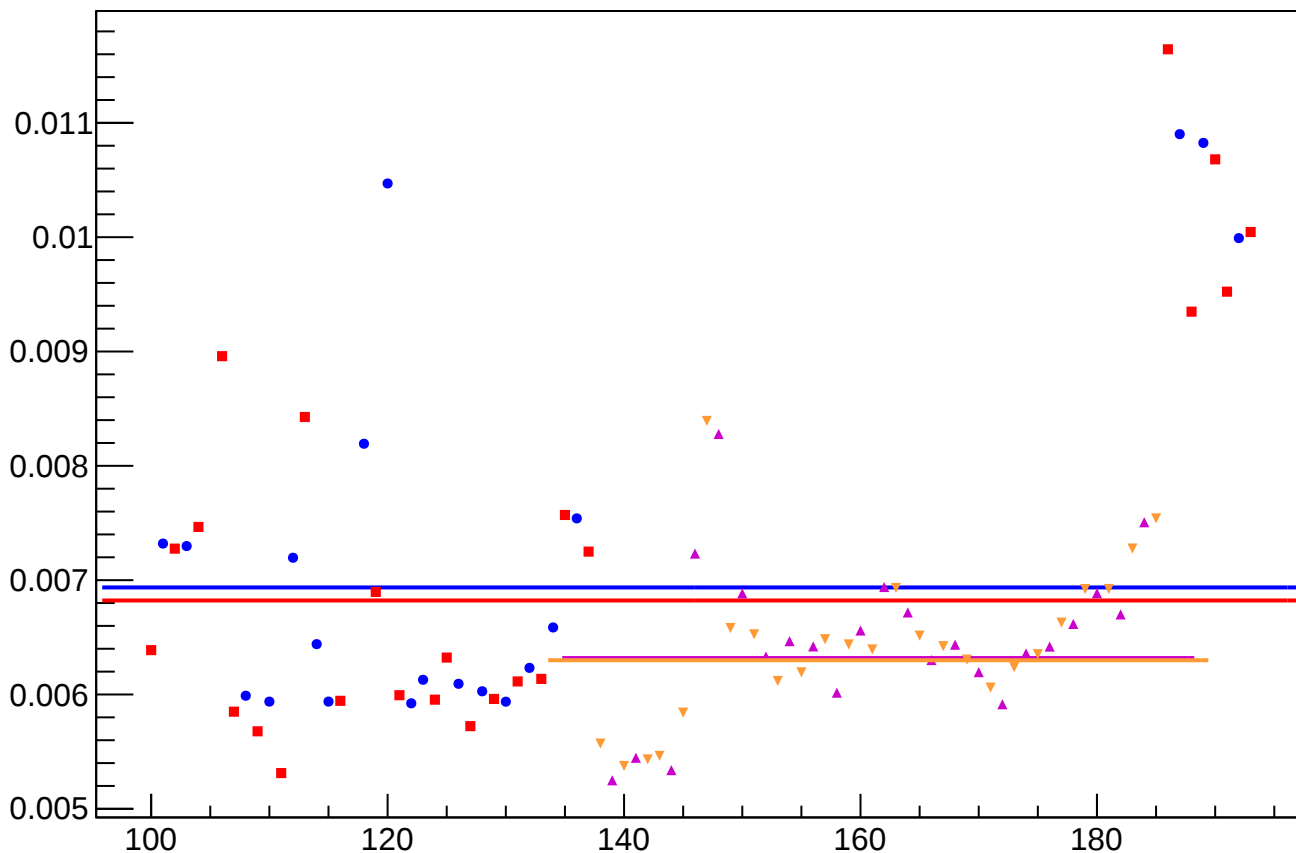
Right: -1.426 $\pm$ 0.000 χ^2/NDF : 98351133991.7/43

In: -1.594 $\pm$ 0.000 χ^2/NDF : 60746208483.9/42

Out: -1.601 $\pm$ 0.000 χ^2/NDF : 84621233619.7/48

All: -1.598 $\pm$ 0.000 χ^2/NDF : 145380788443.2

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 533528.1/19

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 815790.9/23

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

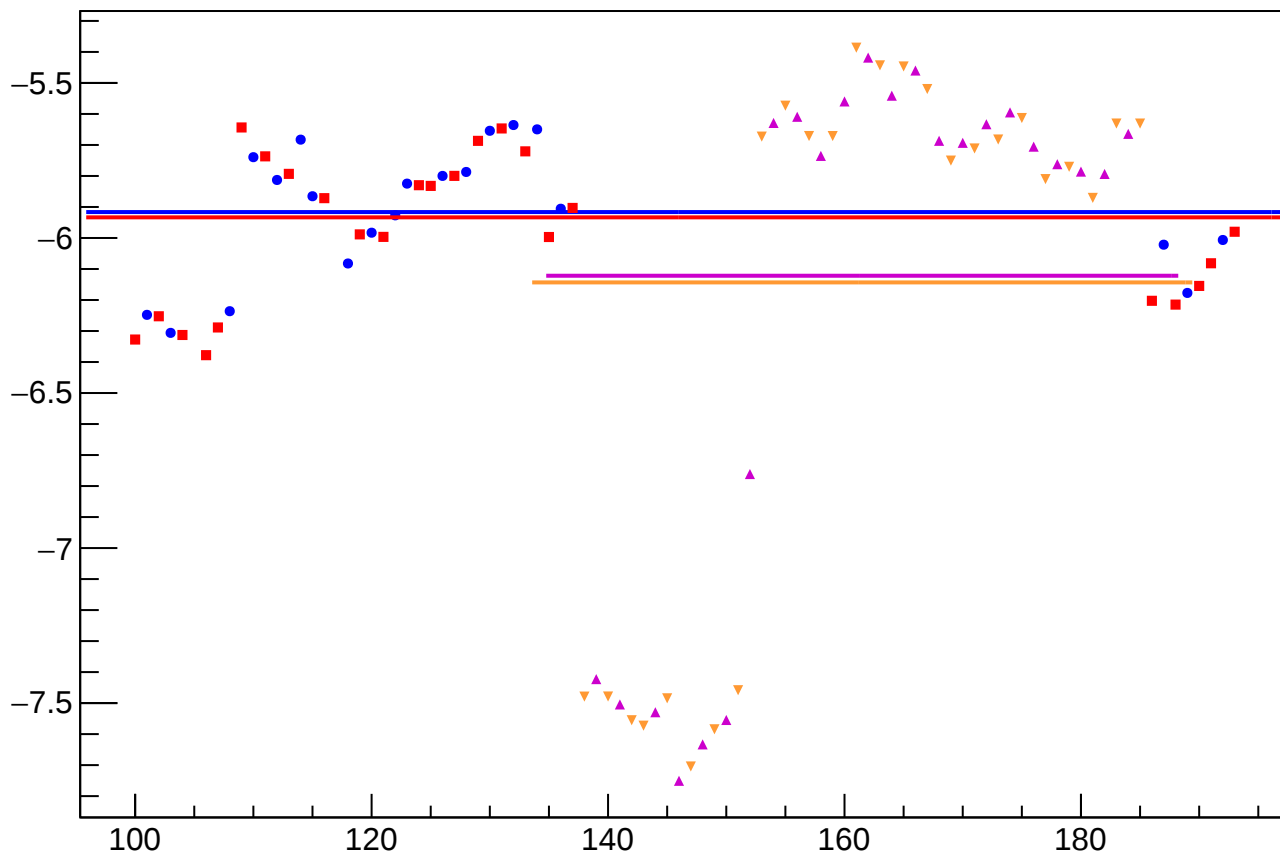
Right: 0.007+/-0.000 χ^2/NDF : 1351502.6/43

In: 0.006+/-0.000 χ^2/NDF : 952468.8/42

Out: 0.006+/-0.000 χ^2/NDF : 1200730.1/48

All: 0.006+/-0.000 χ^2/NDF : 2153689.5/91

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.916+/-0.000 χ^2/NDF : 11351079809.8/19

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.933+/-0.000 χ^2/NDF : 13615752995.3/23

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

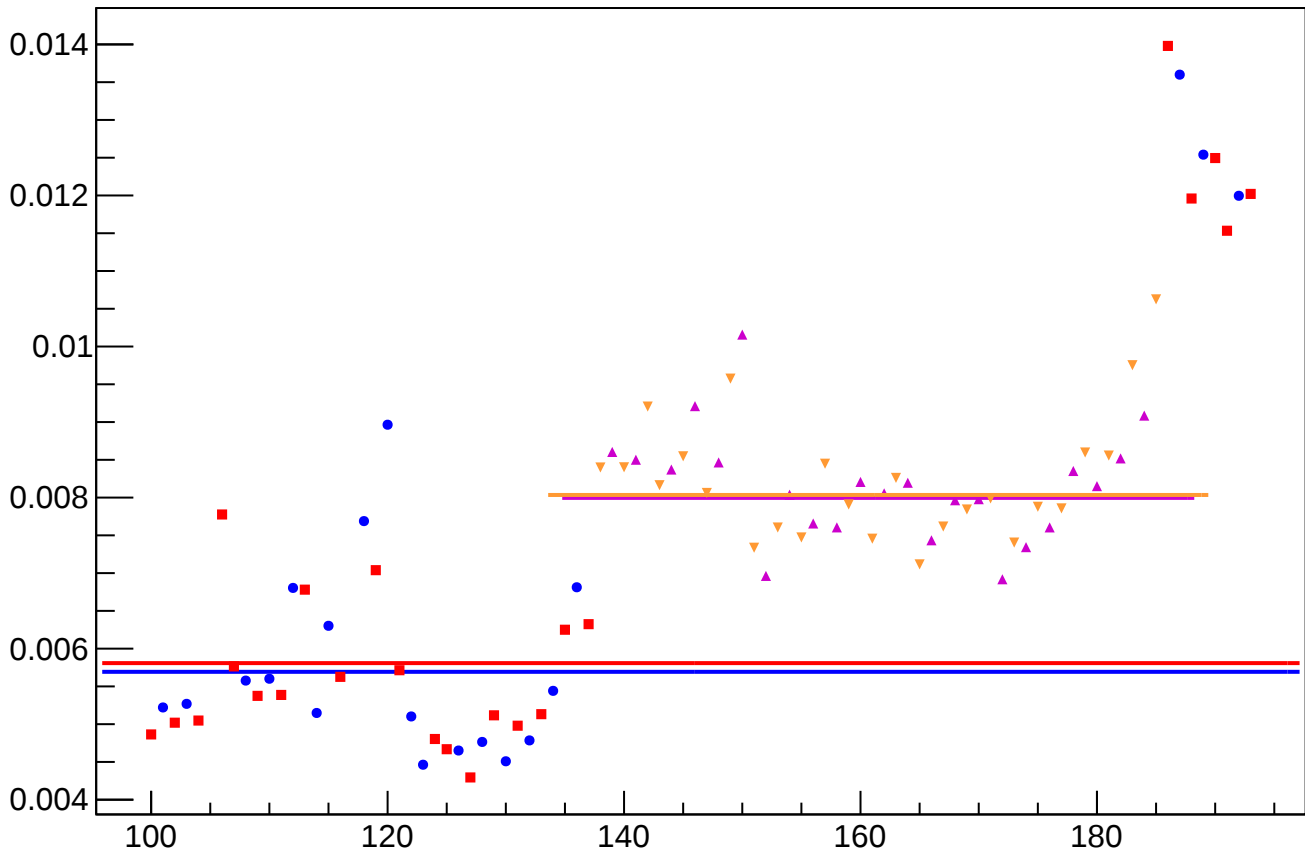
Right: -5.925+/-0.000 χ^2/NDF : 24999427871.9/43

In: -6.028+/-0.000 χ^2/NDF : 176071653782.8/42

Out: -6.042+/-0.000 χ^2/NDF : 204798660852.7/48

All: -6.035+/-0.000 χ^2/NDF : 380921337745.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1200645.2/19

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1705432.0/23

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

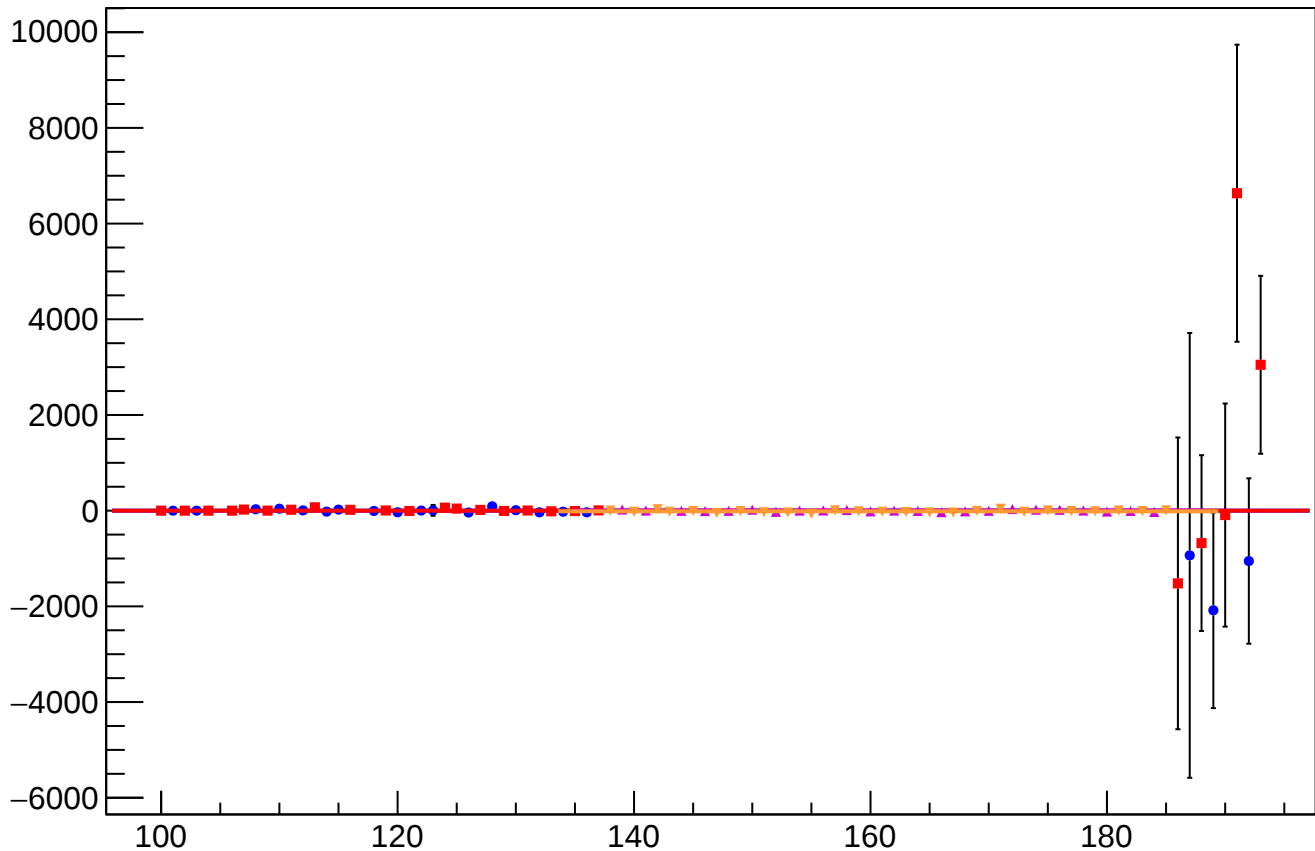
Right: 0.006+/-0.000 χ^2/NDF : 2909055.6/43

In: 0.007+/-0.000 χ^2/NDF :2631050.6/42

Out: 0.007+/-0.000 χ^2/NDF :3141303.2/48

All: 0.007+/-0.000 χ^2/NDF : 5772590.7/91

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 17.7/19$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 22.6/23$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

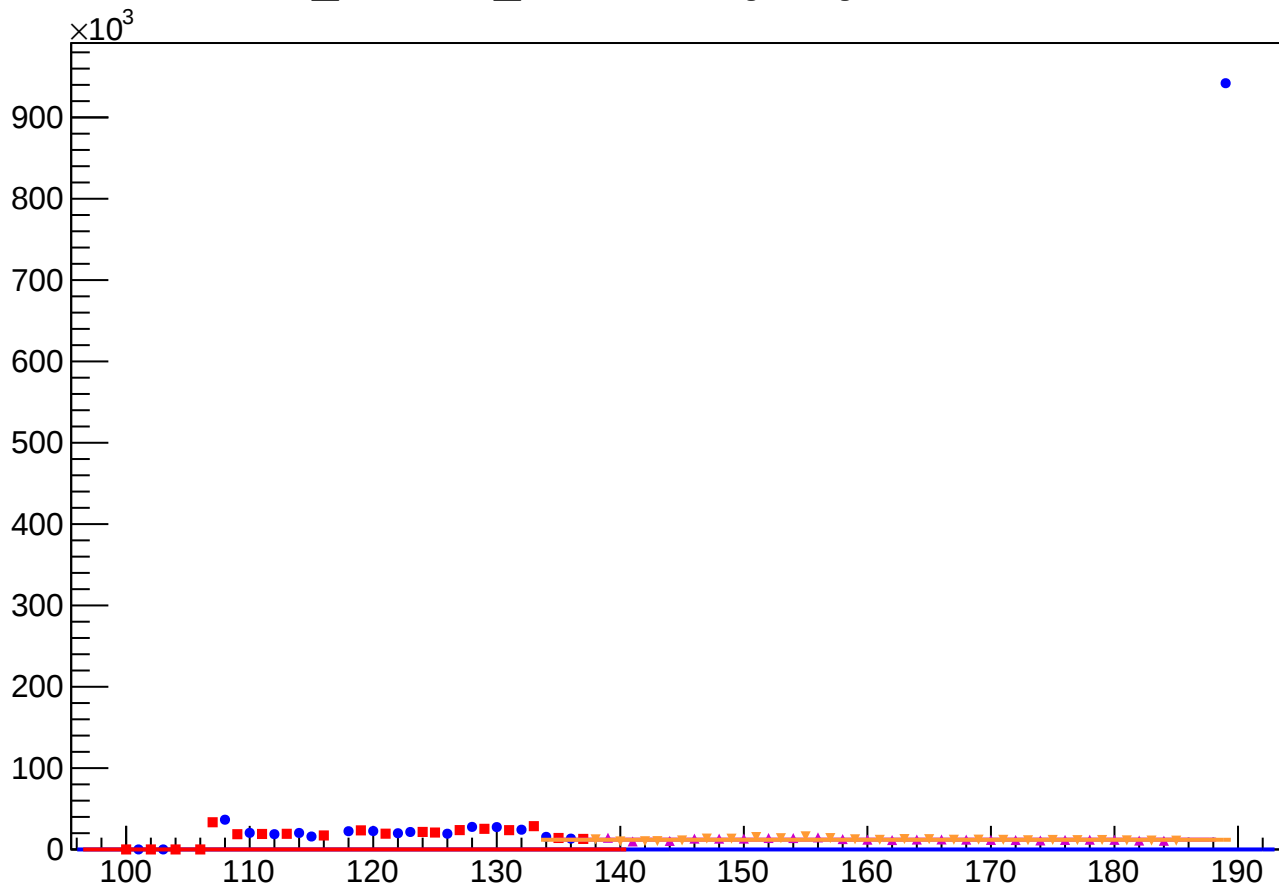
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 40.8/43$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 46.4/42$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 104.3/48$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 151.2/91$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

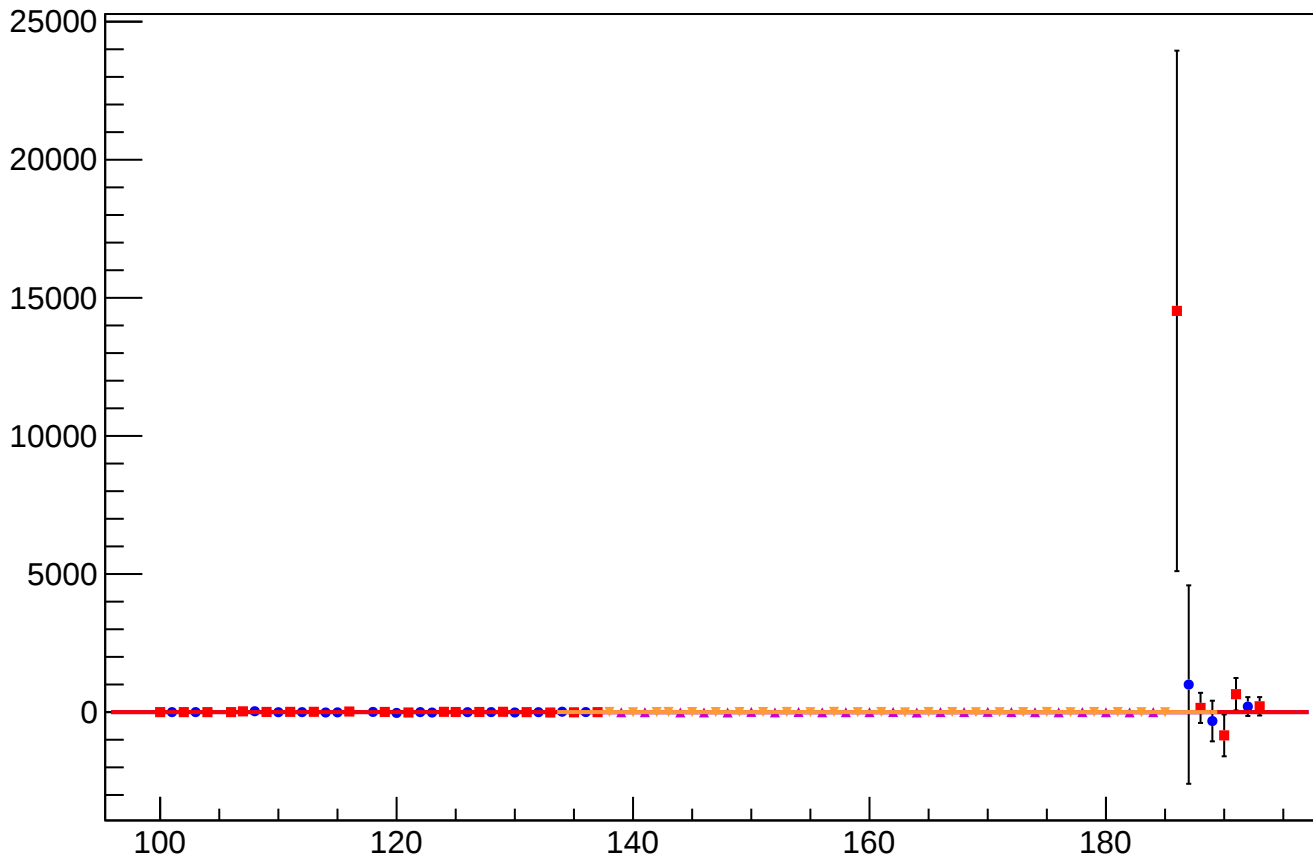
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 15.3/19

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 23.9/23

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

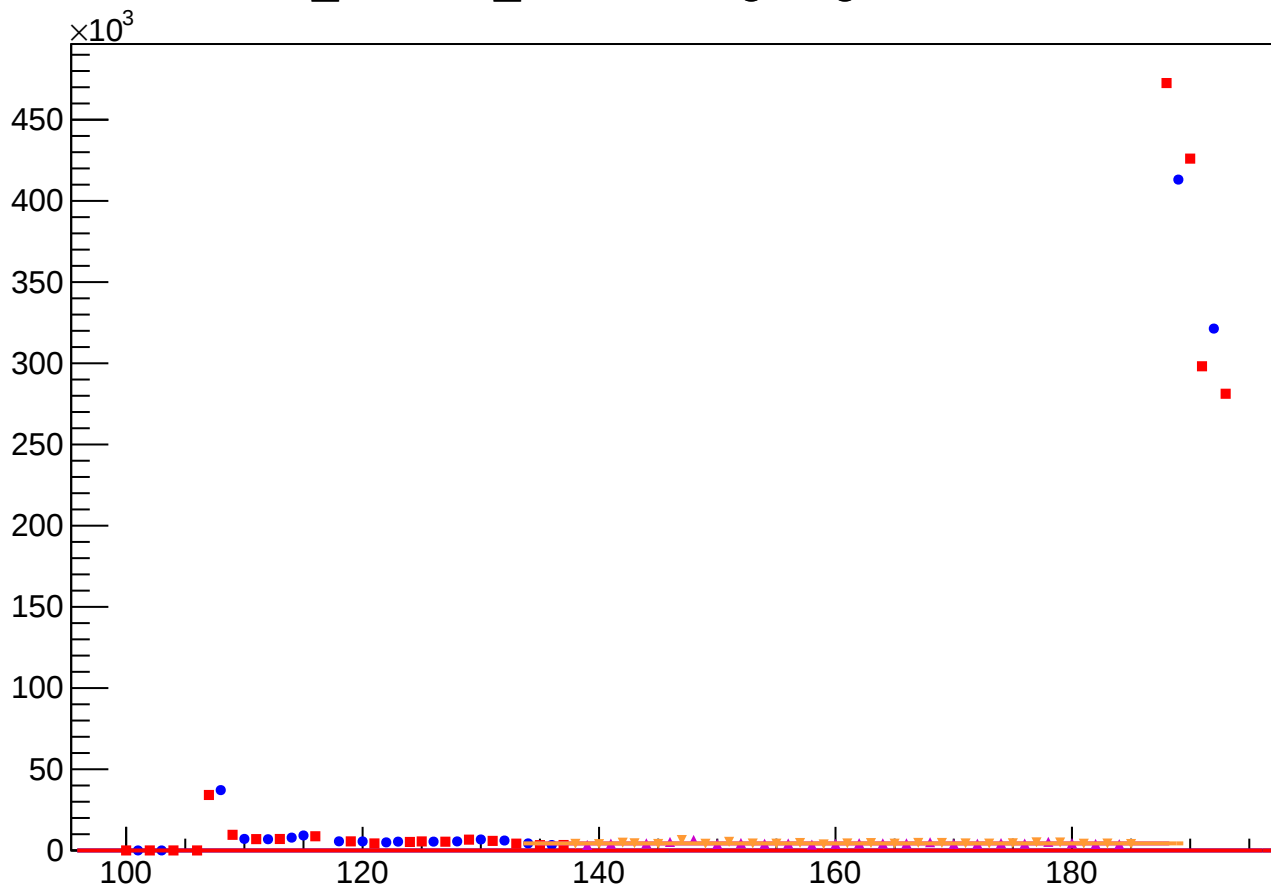
Right: -0.007 ± 0.006 χ^2/NDF : 40.6/43

In: 0.001 ± 0.009 χ^2/NDF : 51.6/42

Out: -0.014 ± 0.009 χ^2/NDF : 44.6/48

All: -0.007 ± 0.006 χ^2/NDF : 97.5/91

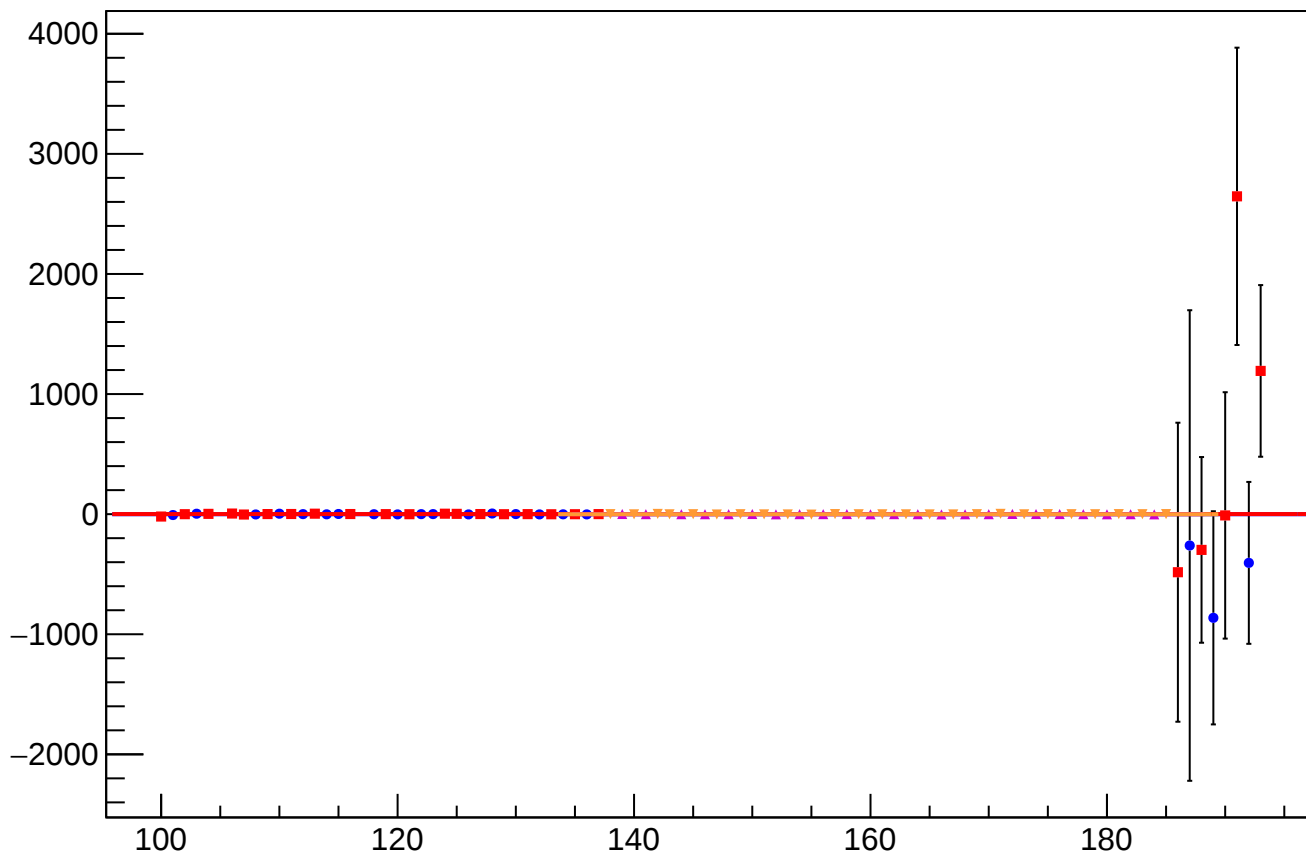
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 χ^2/NDF : 13310903.3/18
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.854 ± 0.006 χ^2/NDF : 15150545.3/22
 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 : 28461536.3/41
 In: 10.273 ± 0.007 χ^2/NDF : 47906931.2/41
 Out: 10.166 ± 0.006 χ^2/NDF : 51680271.3/47
 All: 10.216 ± 0.004 χ^2/NDF : 99587346.2/89

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.702 ± 0.485 χ^2/NDF : 23.8/19

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.761 ± 0.502 χ^2/NDF : 19.4/23

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

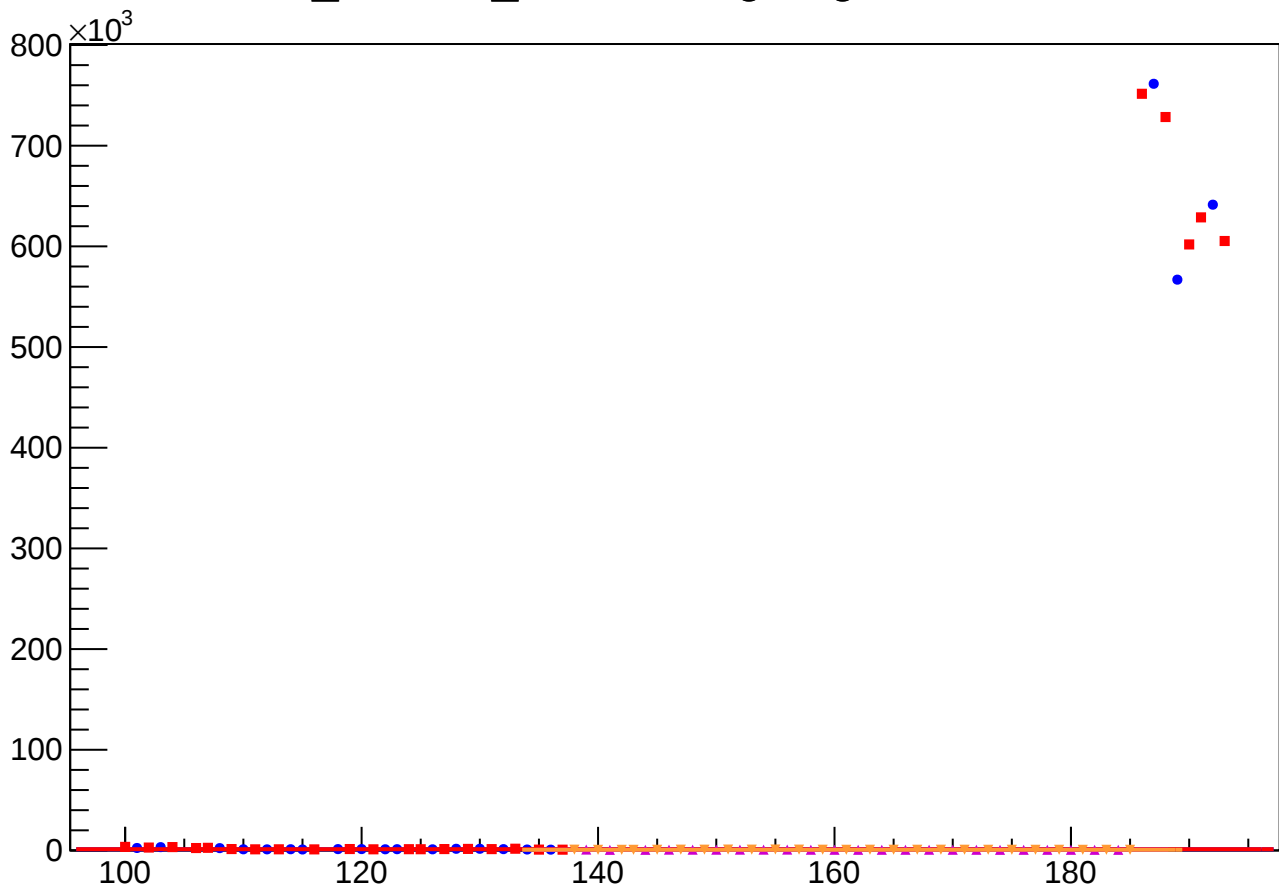
Right: 0.004 ± 0.349 χ^2/NDF : 47.6/43

In: -0.059 ± 0.161 χ^2/NDF : 55.0/42

Out: -0.626 ± 0.156 χ^2/NDF : 86.2/48

All: -0.350 ± 0.112 χ^2/NDF : 147.7/91

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1164.759+/-0.343 χ^2/NDF : 4504656.7/19

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1250.241+/-0.355 χ^2/NDF : 6741146.0/23

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

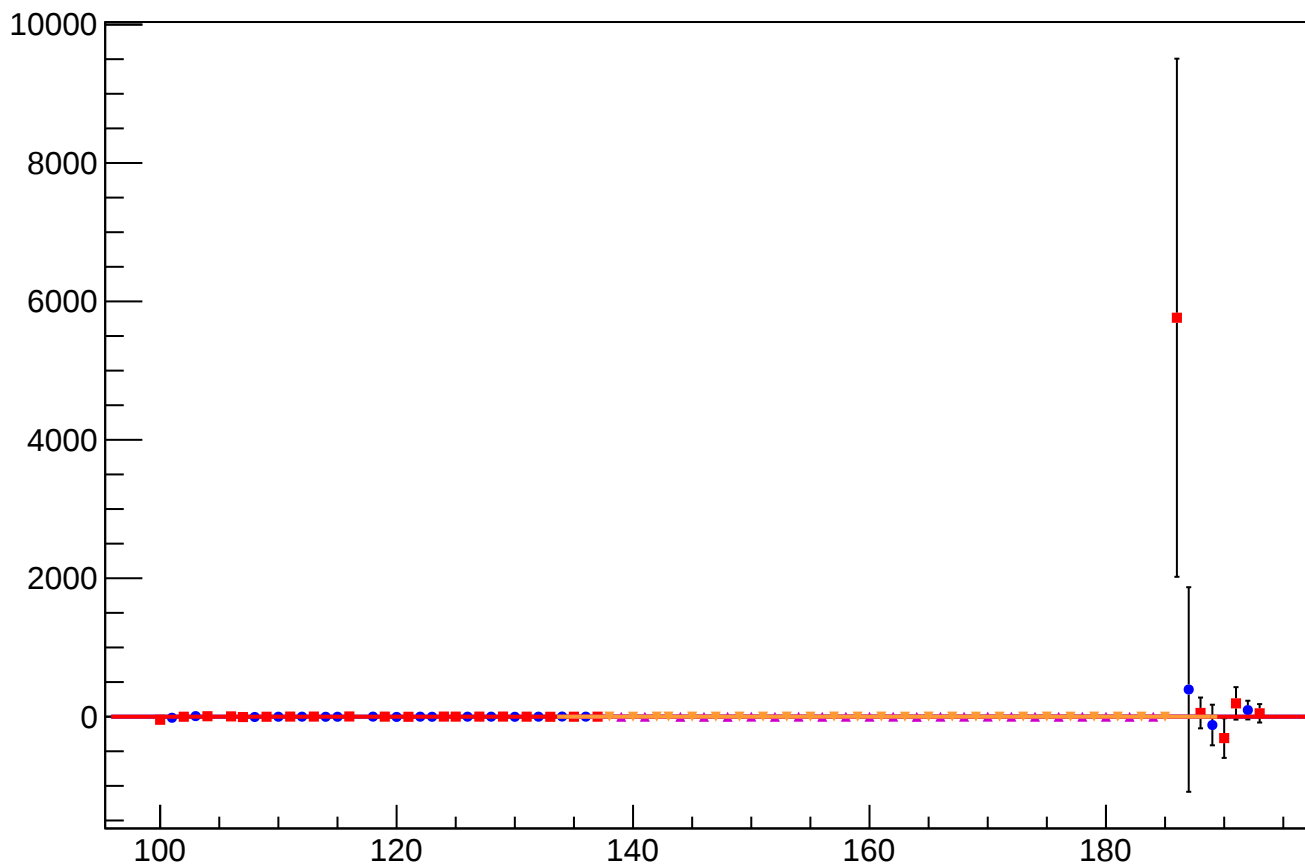
Right: 1206.021+/-0.247 χ^2/NDF : 11275791.6/43

In: 757.104+/-0.114 χ^2/NDF : 6429549.0/42

Out: 753.941+/-0.110 χ^2/NDF : 9297027.3/48

All: 755.479+/-0.079 χ^2/NDF : 15726975.2/92

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 ± 0.271 χ^2/NDF : 21.7/19

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.244 ± 0.265 χ^2/NDF : 25.1/23

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

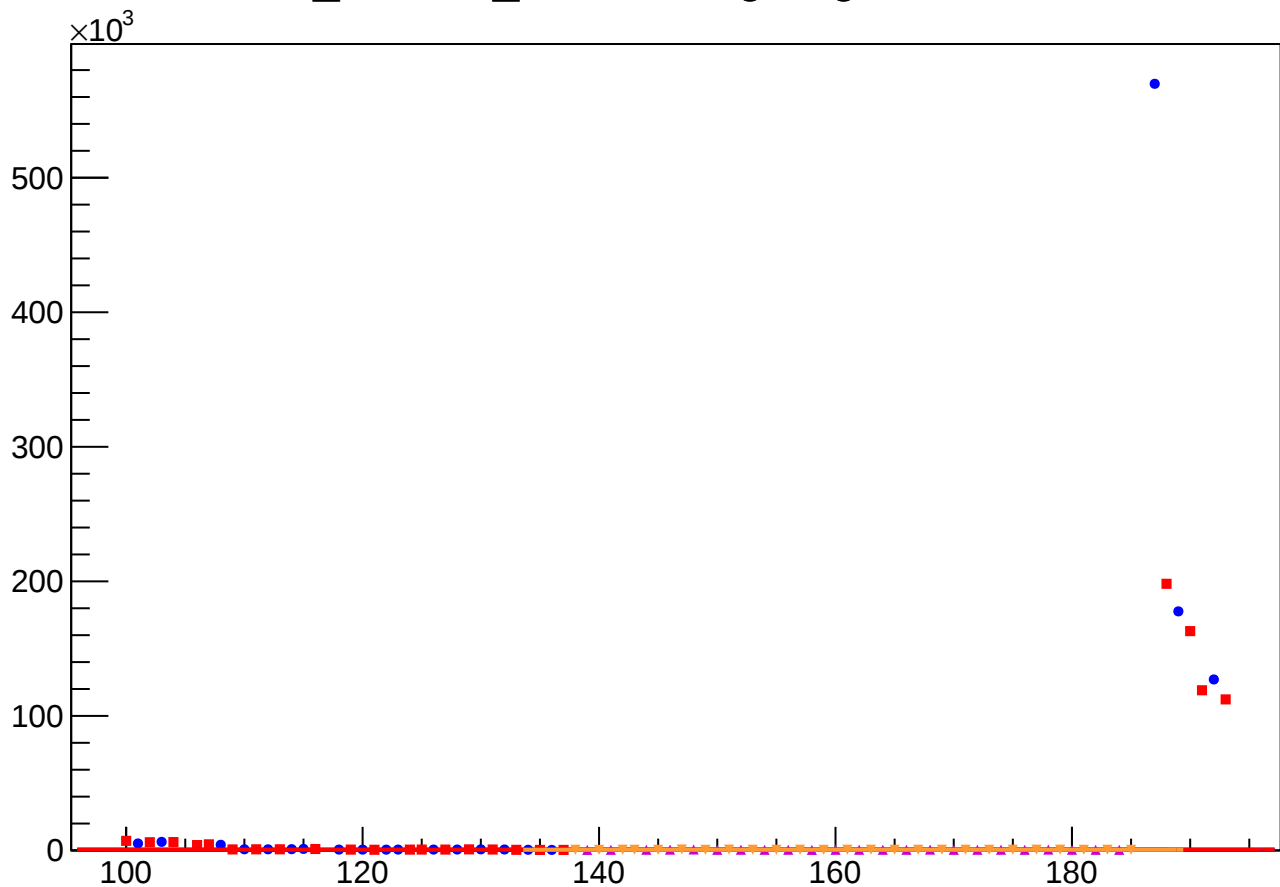
Right: -0.154 ± 0.189 χ^2/NDF : 47.0/43

In: -0.105 ± 0.114 χ^2/NDF : 56.7/42

Out: 0.152 ± 0.111 χ^2/NDF : 45.4/48

All: 0.026 ± 0.080 χ^2/NDF : 104.7/91

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.267 $\pm$ 0.191 χ^2 /NDF: 5918230.2/19

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF: 331573.1/24

Right Out: 600.728 $\pm$ 0.187 χ^2 /NDF: 7688620.0/22

Left In: 519.909 $\pm$ 0.089 χ^2 /NDF: 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2 /NDF: 776728.3/47

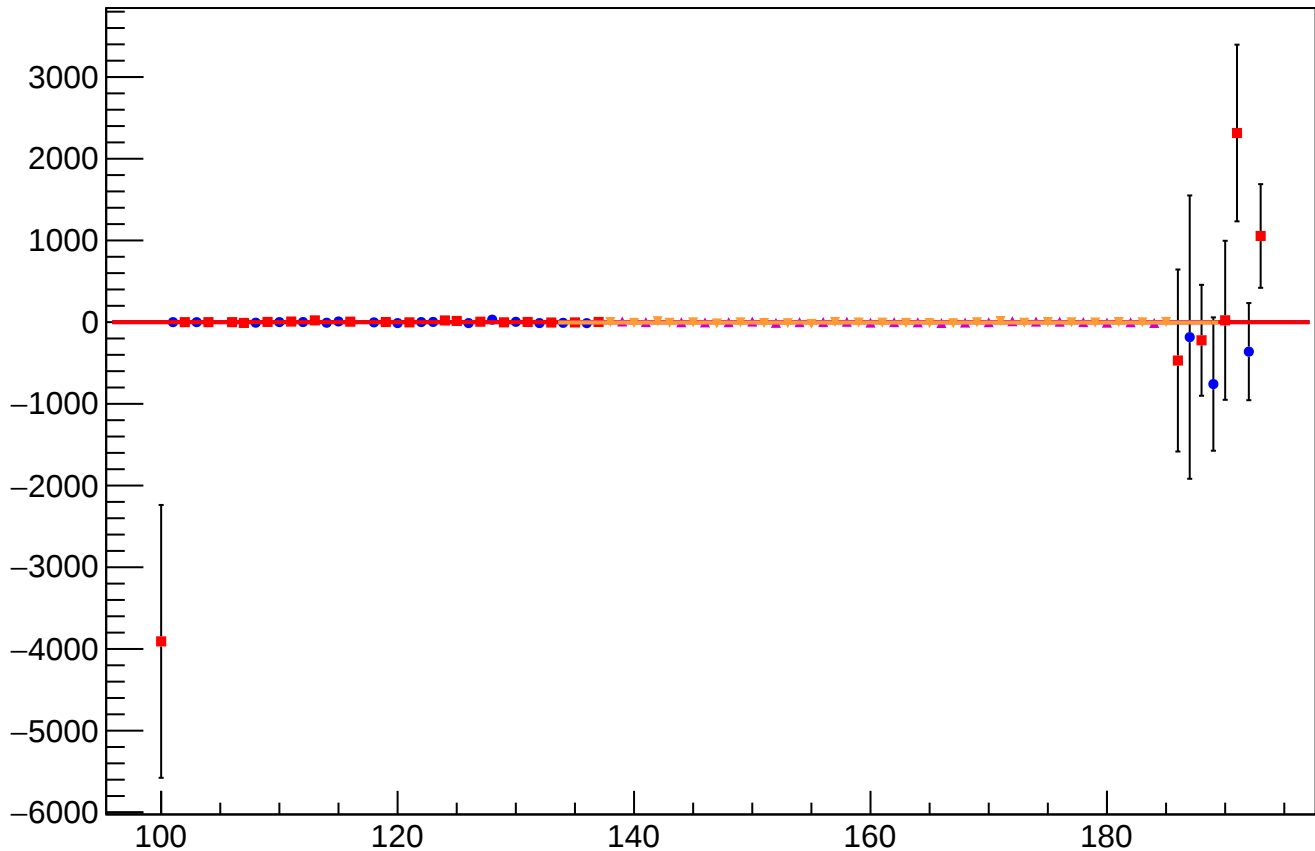
Right: 604.906 $\pm$ 0.134 χ^2 /NDF: 13607867.4/42

In: 535.729 $\pm$ 0.081 χ^2 /NDF: 6542503.6/42

Out: 536.214 $\pm$ 0.079 χ^2 /NDF: 8164245.9/47

All: 535.977 $\pm$ 0.056 χ^2 /NDF: 14706768.1/90

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 16.9/19

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 24.4/23

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

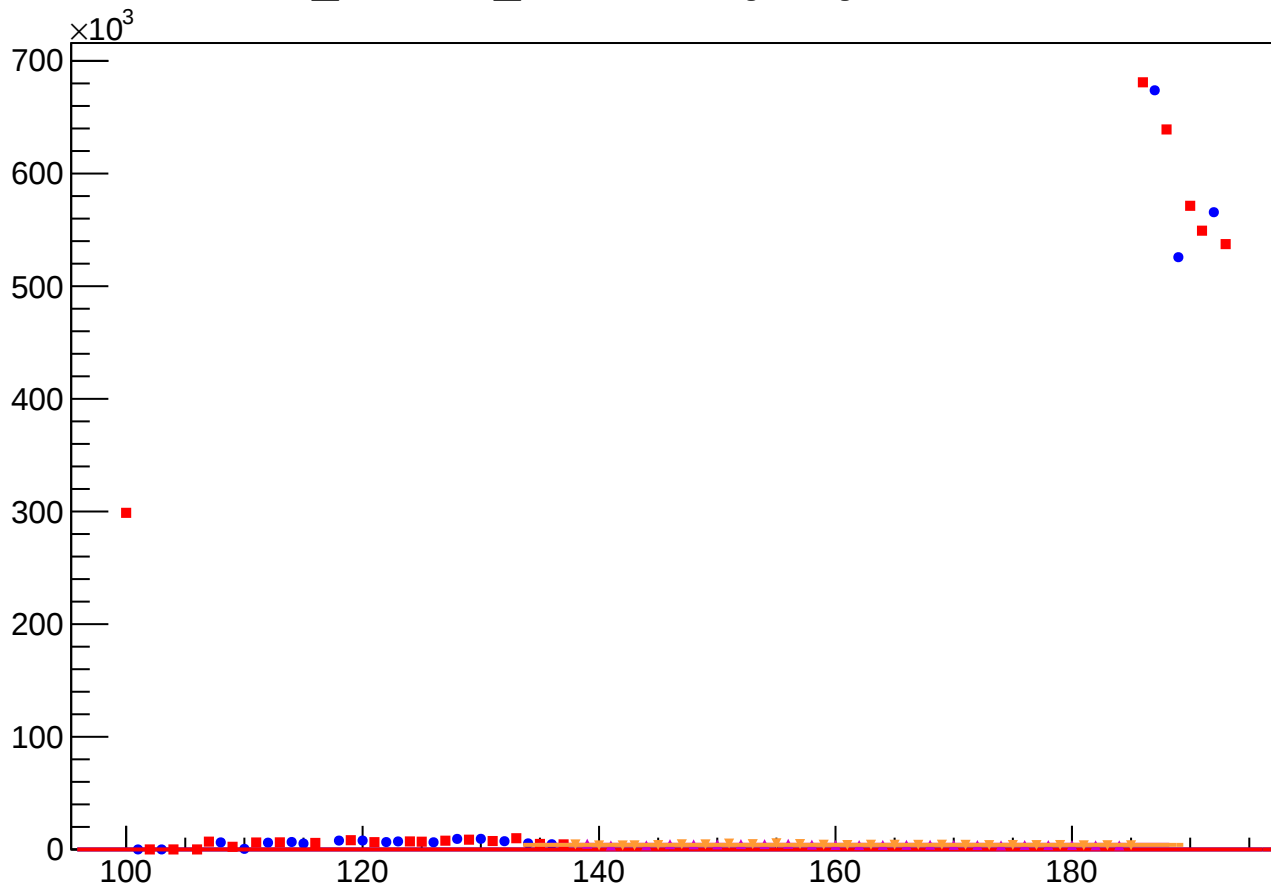
Right: 0.004 ± 0.014 χ^2/NDF : 44.1/43

In: -0.022 ± 0.021 χ^2/NDF : 46.2/42

Out: 0.025 ± 0.020 χ^2/NDF : 104.8/48

All: 0.003 ± 0.014 χ^2/NDF : 153.6/91

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.336+/-0.015 χ^2/NDF : 13258603.7/19

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.269+/-0.014 χ^2/NDF : 15918947.6/23

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

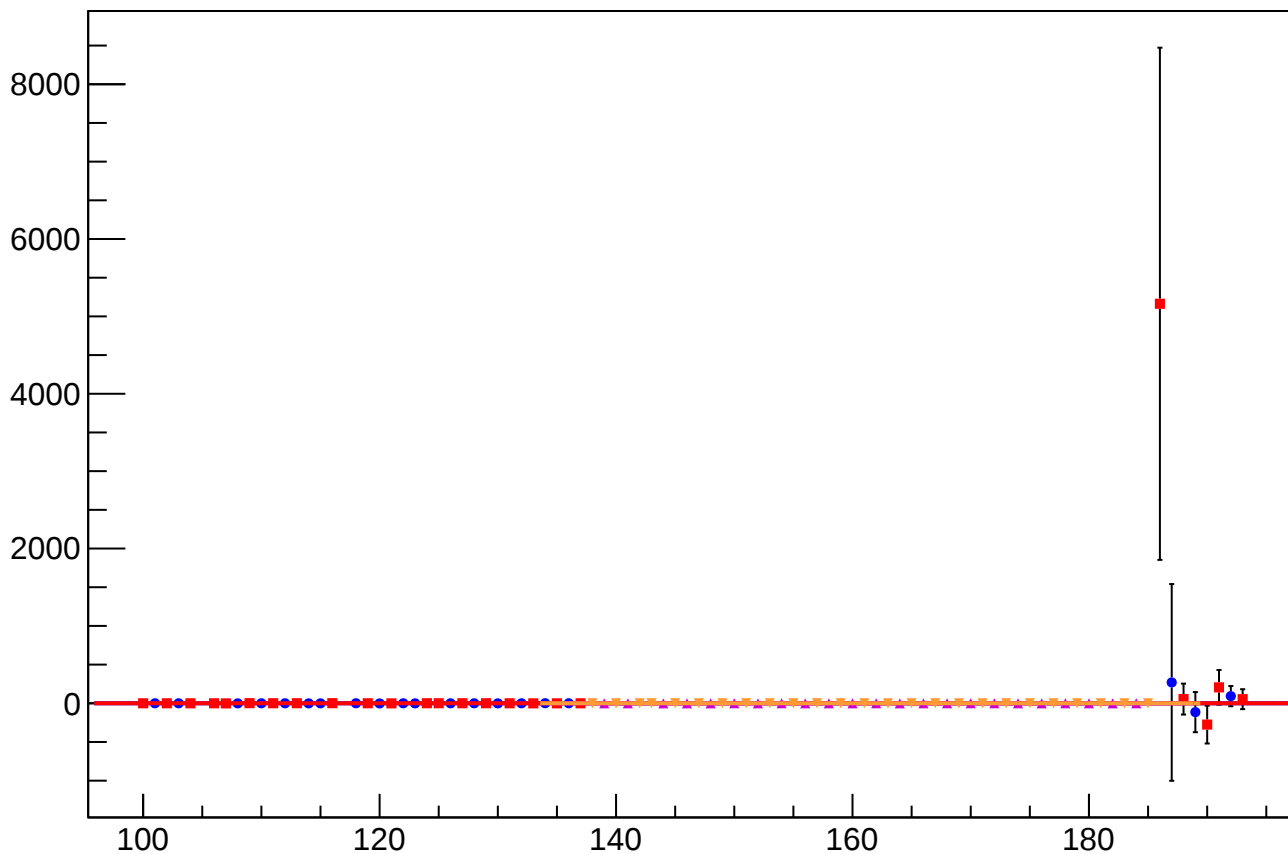
Right: 17.301+/-0.010 χ^2/NDF : 29177562.5/43

In: 19.142+/-0.015 χ^2/NDF : 47827833.2/42

Out: 19.006+/-0.014 χ^2/NDF : 52371913.0/48

All: 19.071+/-0.010 χ^2/NDF : 100199791.6/91

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 +/- 0.002 χ^2/NDF : 16.1/19

Left Out: 0.151 +/- 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 +/- 0.002 χ^2/NDF : 22.9/23

Left In: -0.075 +/- 0.078 χ^2/NDF : 34.8/22

Left: 0.041 +/- 0.055 χ^2/NDF : 55.8/47

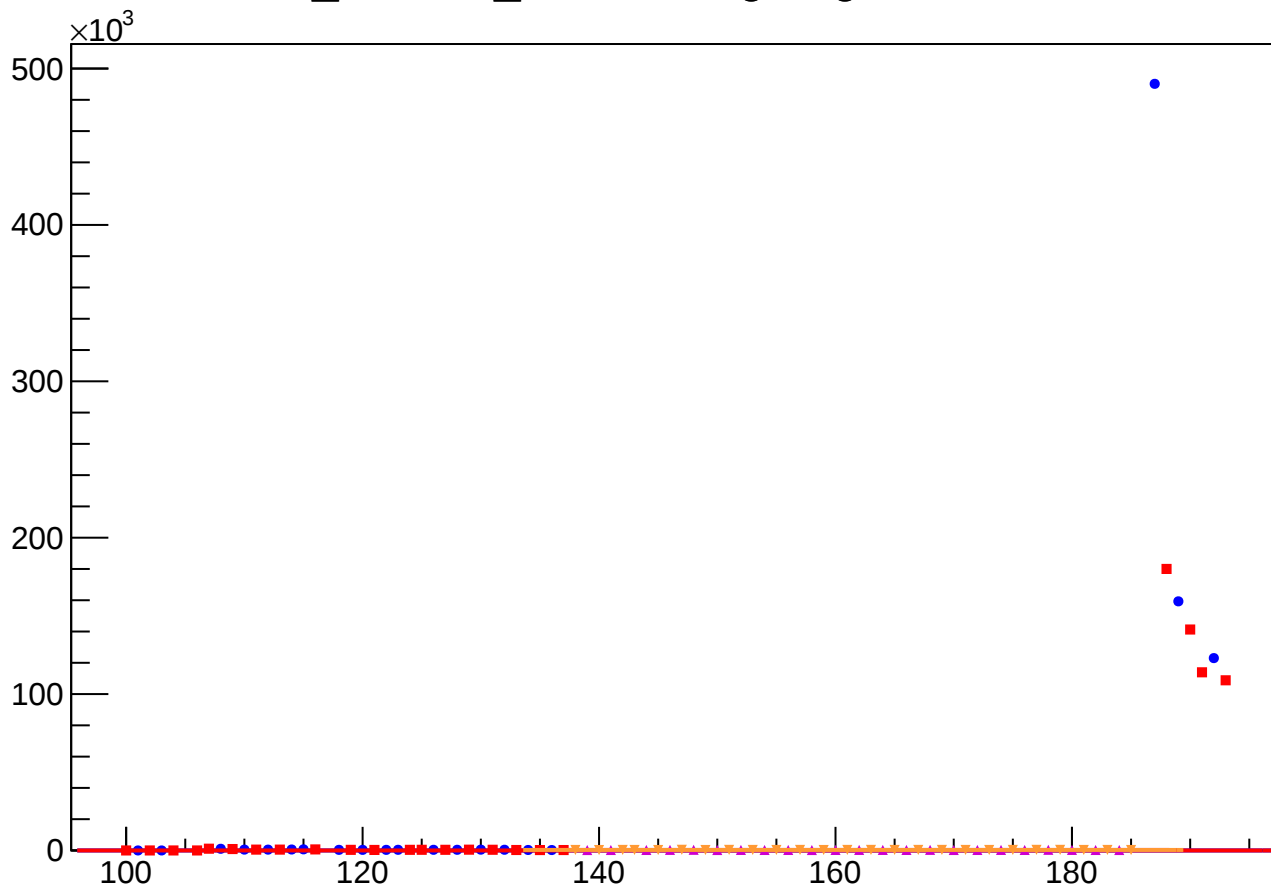
Right: -0.000 +/- 0.001 χ^2/NDF : 39.1/43

In: 0.000 +/- 0.002 χ^2/NDF : 51.8/42

Out: -0.001 +/- 0.002 χ^2/NDF : 43.6/48

All: -0.000 +/- 0.001 χ^2/NDF : 95.5/91

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 13691048.1/19

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 14924059.3/22

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

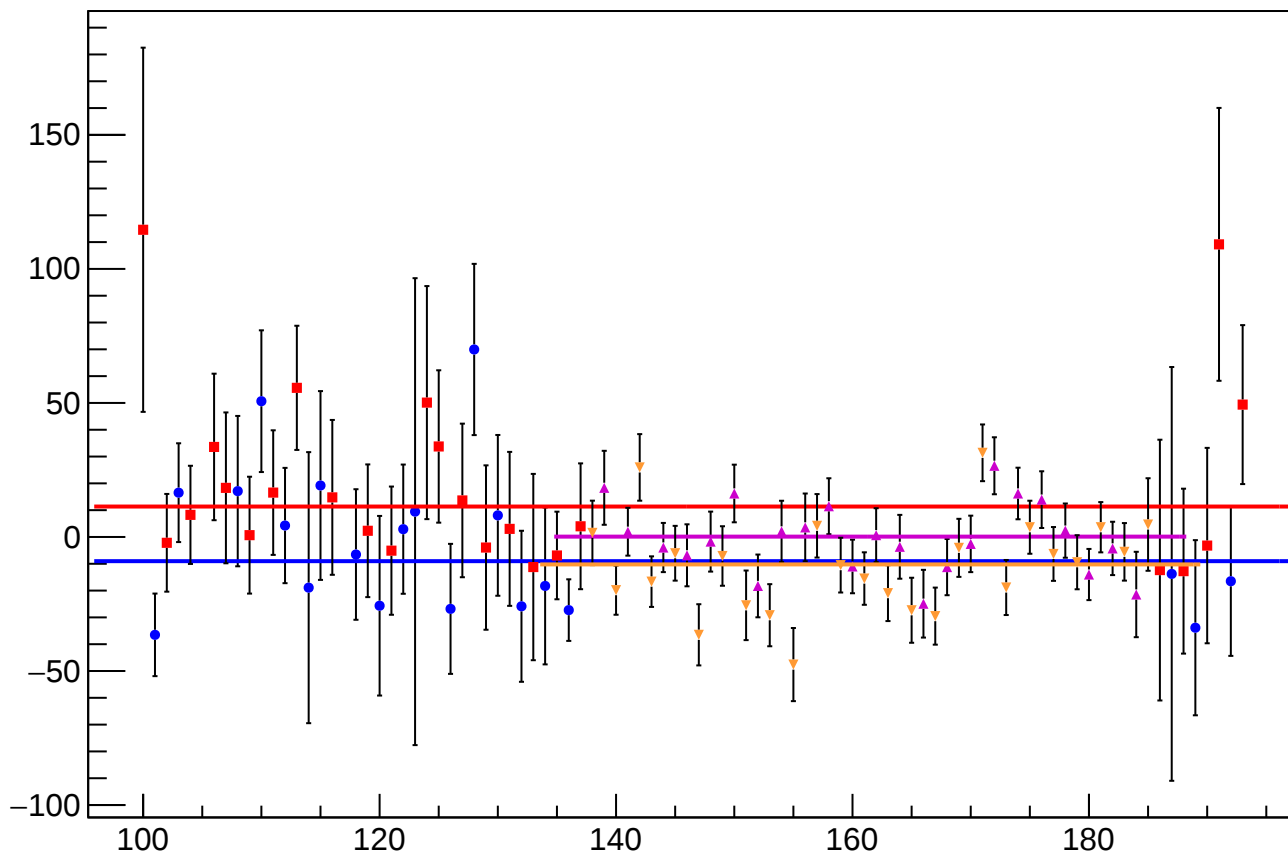
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 28615334.6/42

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 48094505.5/42

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 51231900.0/47

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 99326543.6/90

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.024 ± 5.436 $\chi^2/\text{NDF}: 23.3/19$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 11.353 ± 5.375 $\chi^2/\text{NDF}: 18.1/23$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

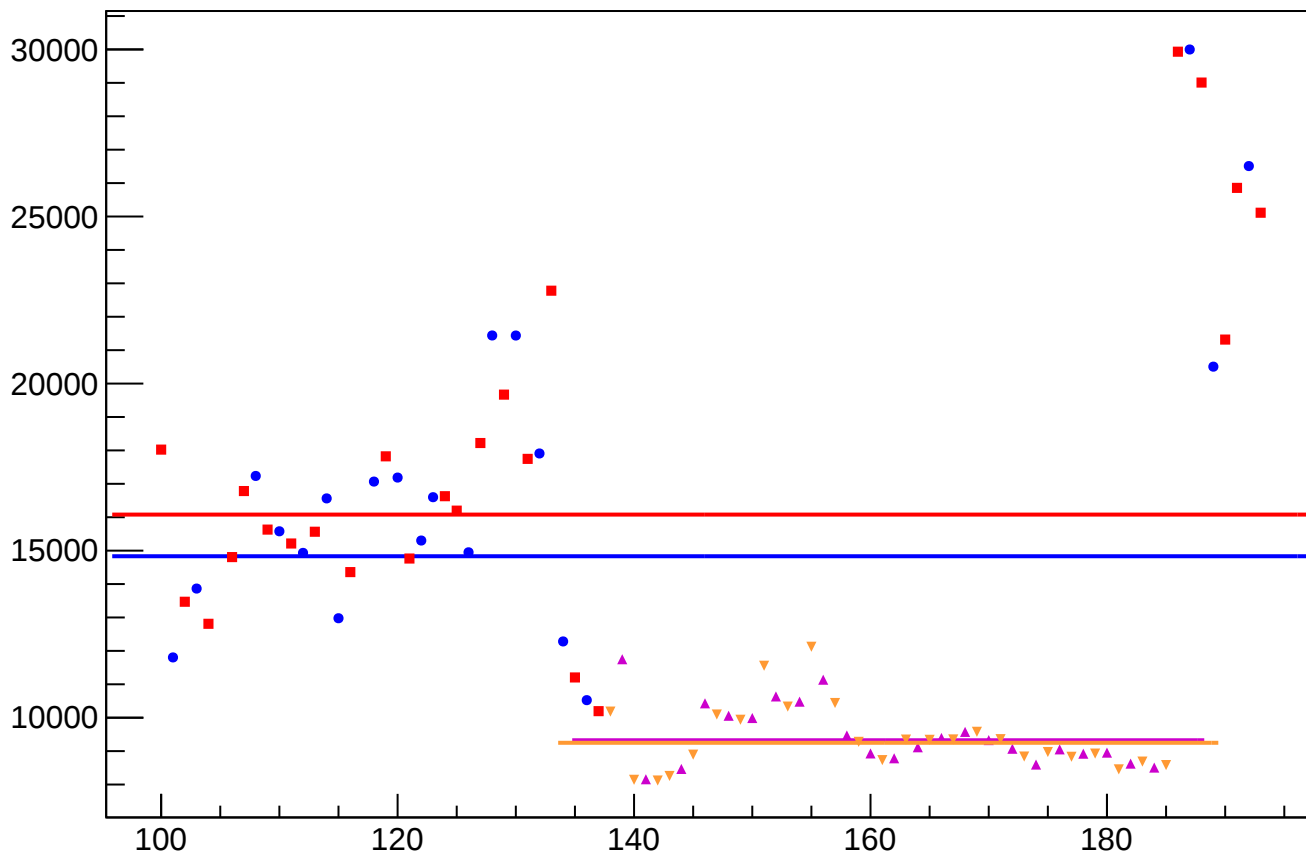
Right: 1.280 ± 3.822 $\chi^2/\text{NDF}: 48.5/43$

In: -1.201 ± 2.073 $\chi^2/\text{NDF}: 55.5/42$

Out: -7.217 ± 2.010 $\chi^2/\text{NDF}: 89.9/48$

All: -4.302 ± 1.443 $\chi^2/\text{NDF}: 149.8/91$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14832.499+/-3.844 χ^2/NDF : 1127190.3/19

Left Out: 9249.358+/-1.532 χ^2/NDF : 332003.4/24

Right Out: 16079.085+/-3.800 χ^2/NDF : 1379698.7/23

Left In: 9325.112+/-1.585 χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

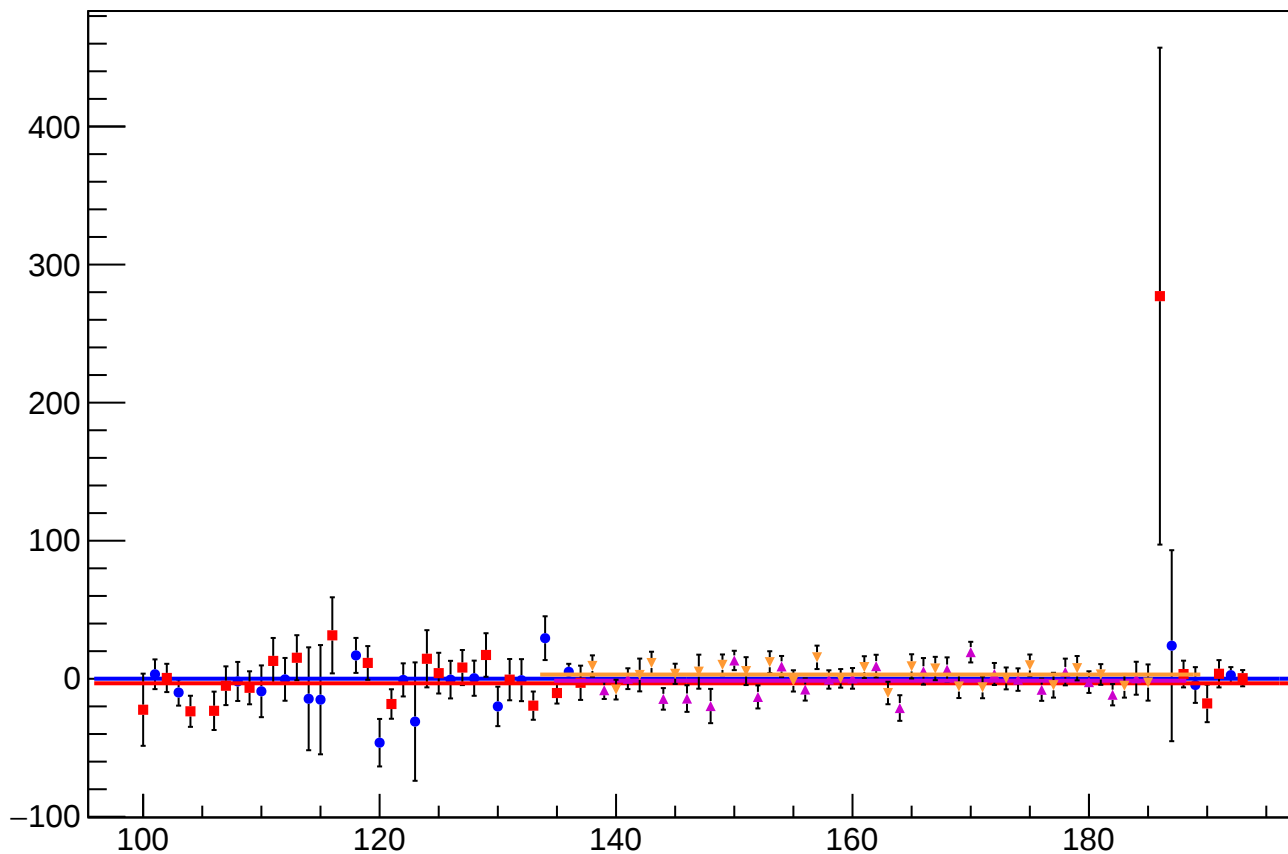
Right: 15462.822+/-2.702 χ^2/NDF : 2560076.4/43

In: 10125.956+/-1.466 χ^2/NDF : 3162693.1/42

Out: 10204.074+/-1.421 χ^2/NDF : 4489706.4/48

All: 10166.226+/-1.020 χ^2/NDF : 7653863.9/95

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.059 $\pm$ 2.668 χ^2/NDF : 17.9/19

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -3.262 $\pm$ 2.422 χ^2/NDF : 25.2/23

Left In: -1.394 $\pm$ 1.693 χ^2/NDF : 35.4/22

Left: 0.879 $\pm$ 1.185 χ^2/NDF : 57.2/47

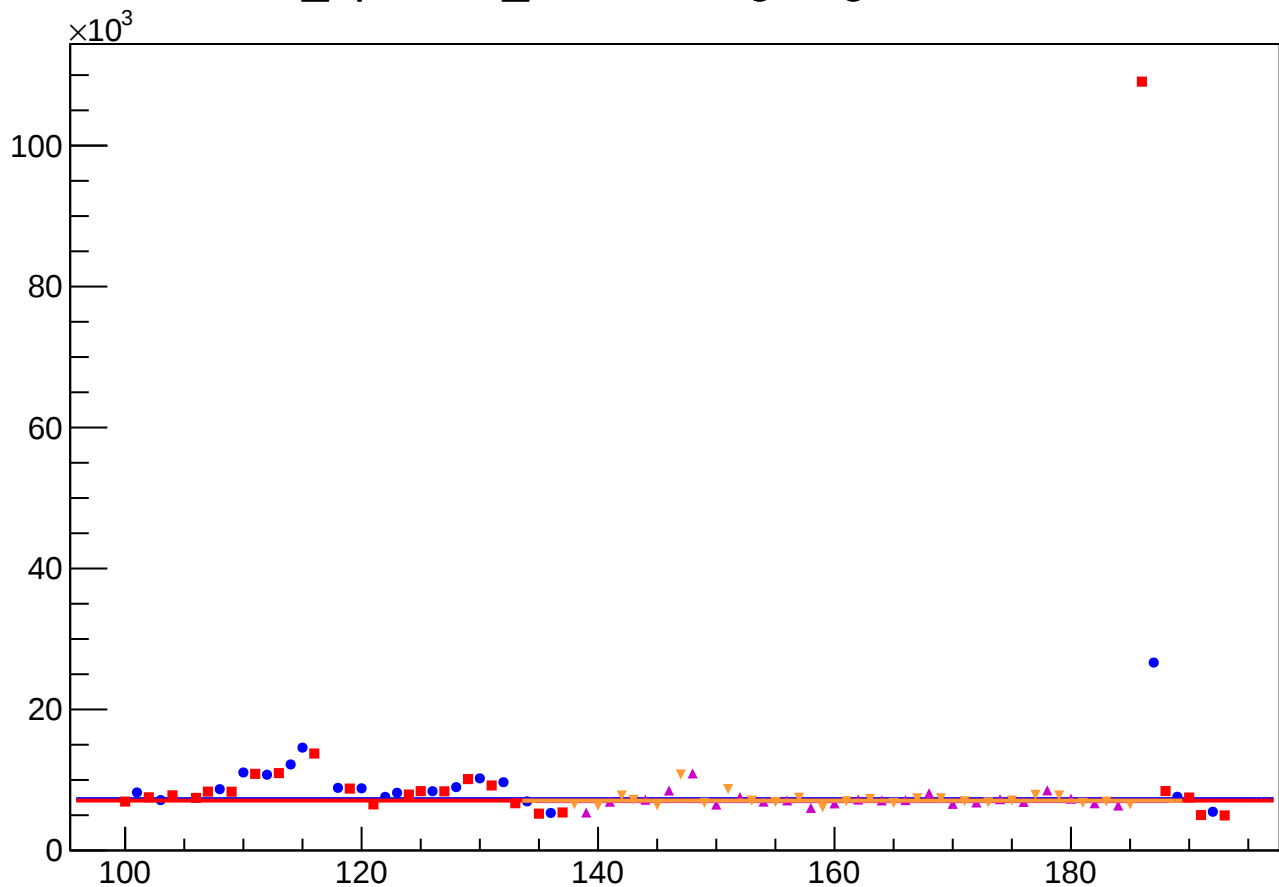
Right: -1.762 $\pm$ 1.793 χ^2/NDF : 43.9/43

In: -0.977 $\pm$ 1.430 χ^2/NDF : 53.5/42

Out: 1.042 $\pm$ 1.369 χ^2/NDF : 48.1/48

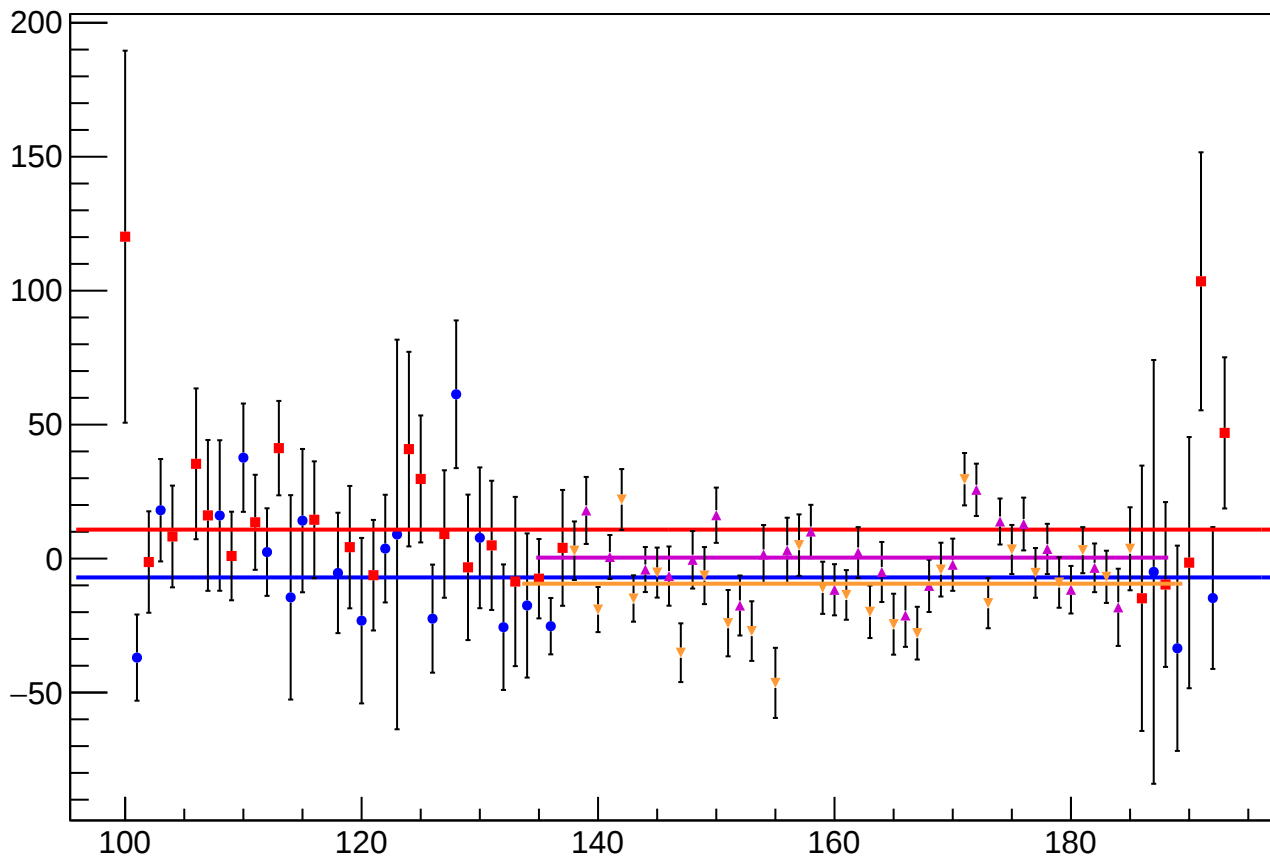
All: 0.076 $\pm$ 0.989 χ^2/NDF : 102.6/91

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7280.530 $\pm$ 1.887	χ^2/NDF : 1131690.4/19	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 7170.344 $\pm$ 1.268	χ^2/NDF : 2912579.2/43
Right Out: 7079.577 $\pm$ 1.712	χ^2/NDF : 1774668.7/23	In: 7080.913 $\pm$ 1.011	χ^2/NDF : 1697420.8/42
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 7070.898 $\pm$ 0.968	χ^2/NDF : 2162156.2/48
		All: 7075.687 $\pm$ 0.699	χ^2/NDF : 3859628.2/91

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.032 $\pm$ 4.906 χ^2/NDF : 23.7/19

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 10.811 $\pm$ 4.800 χ^2/NDF : 17.6/23

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

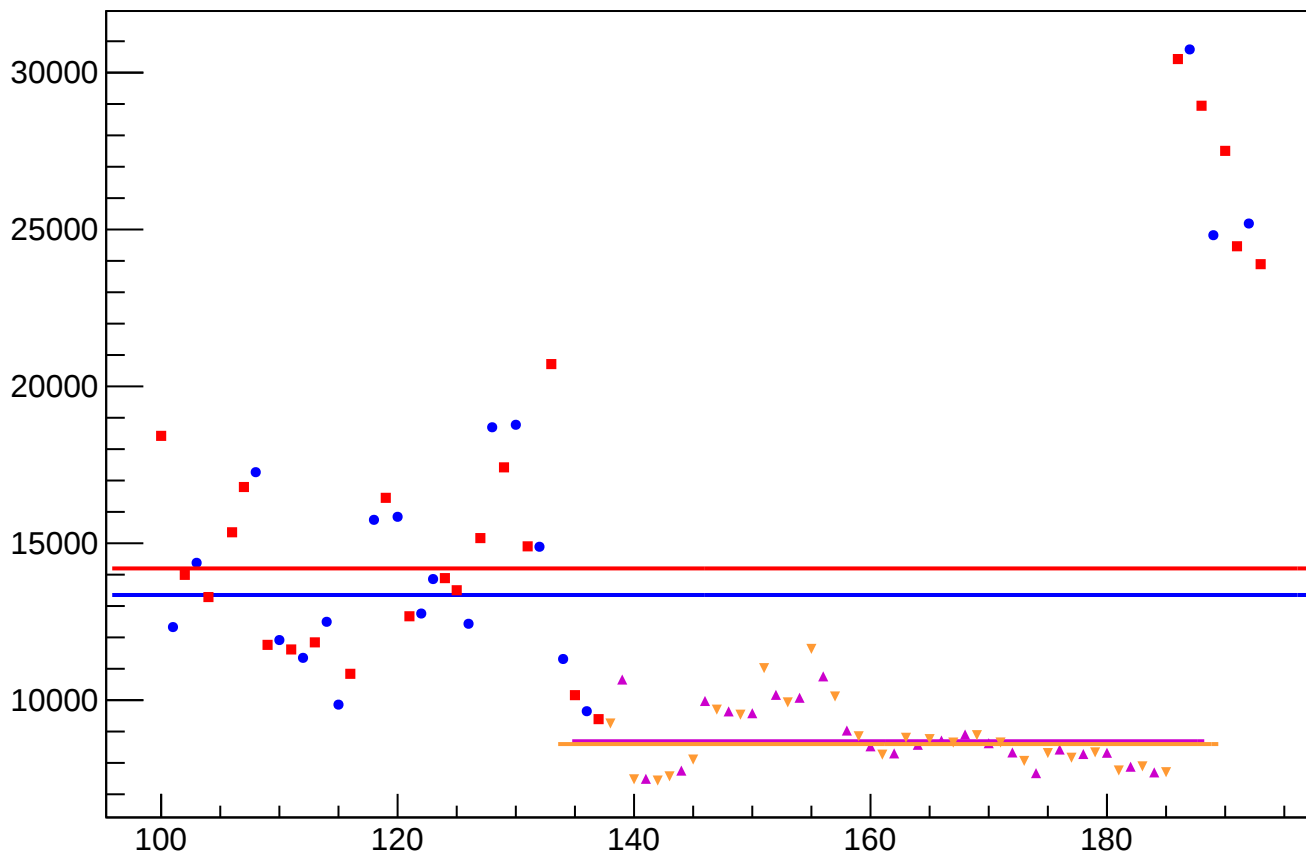
Right: 2.083 $\pm$ 3.431 χ^2/NDF : 48.1/43

In: -0.783 $\pm$ 1.924 χ^2/NDF : 55.3/42

Out: -6.345 $\pm$ 1.860 χ^2/NDF : 91.1/48

All: -3.659 $\pm$ 1.337 χ^2/NDF : 150.7/91

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 13351.715+/-3.469 $\chi^2/\text{NDF}: 1273649.3/19$

Left Out: 8600.457+/-1.427 $\chi^2/\text{NDF}: 438229.4/24$

Right Out: 14198.185+/-3.394 $\chi^2/\text{NDF}: 1761911.2/23$

Left In: 8690.209+/-1.479 $\chi^2/\text{NDF}: 370834.1/22$

Left: 8643.707+/-1.027 $\chi^2/\text{NDF}: 810970.4/47$

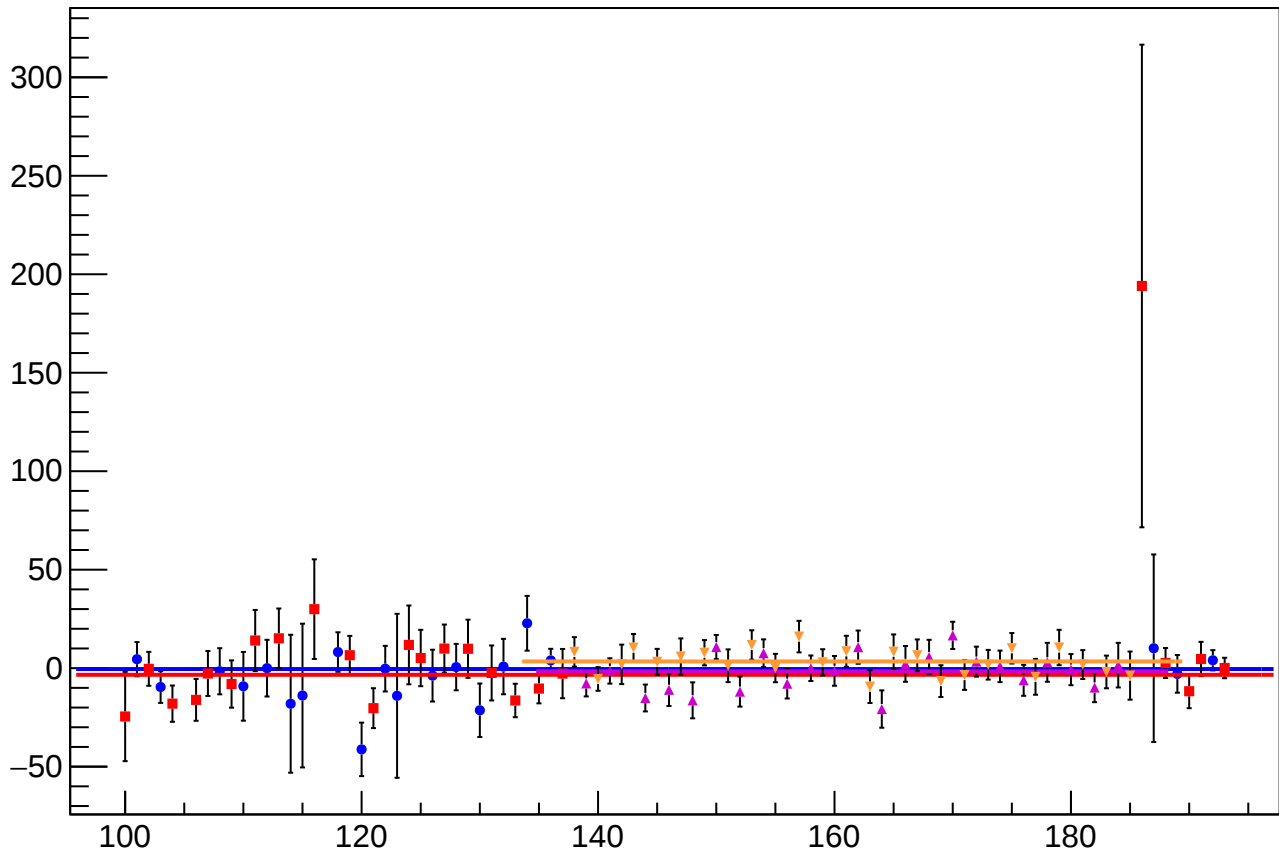
Right: 13784.142+/-2.426 $\chi^2/\text{NDF}: 3065981.6/43$

In: 9407.640+/-1.361 $\chi^2/\text{NDF}: 3172479.2/42$

Out: 9441.022+/-1.315 $\chi^2/\text{NDF}: 4511552.6/48$

All: 9424.899+/-0.946 $\chi^2/\text{NDF}: 7684342.9/91$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -0.446 ± 2.385 χ^2/NDF : 18.8/19

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -3.358 ± 2.113 χ^2/NDF : 25.0/23

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

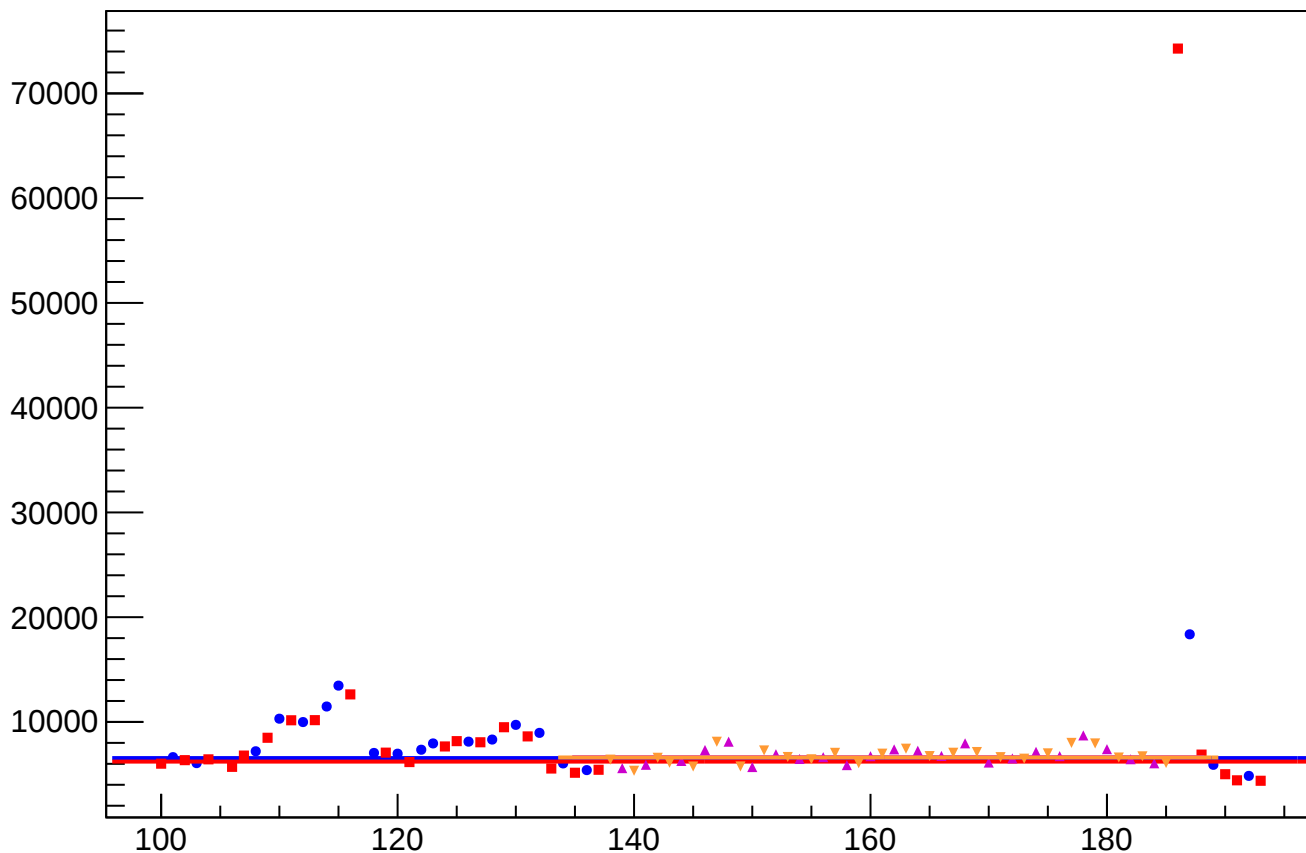
Right: -2.078 ± 1.582 χ^2/NDF : 44.7/43

In: -1.261 ± 1.328 χ^2/NDF : 52.4/42

Out: 1.039 ± 1.250 χ^2/NDF : 48.5/48

All: -0.041 ± 0.910 χ^2/NDF : 102.6/91

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6548.207+/-1.687 χ^2/NDF : 1020697.7/19

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 6213.849+/-1.494 χ^2/NDF : 1809010.2/23

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

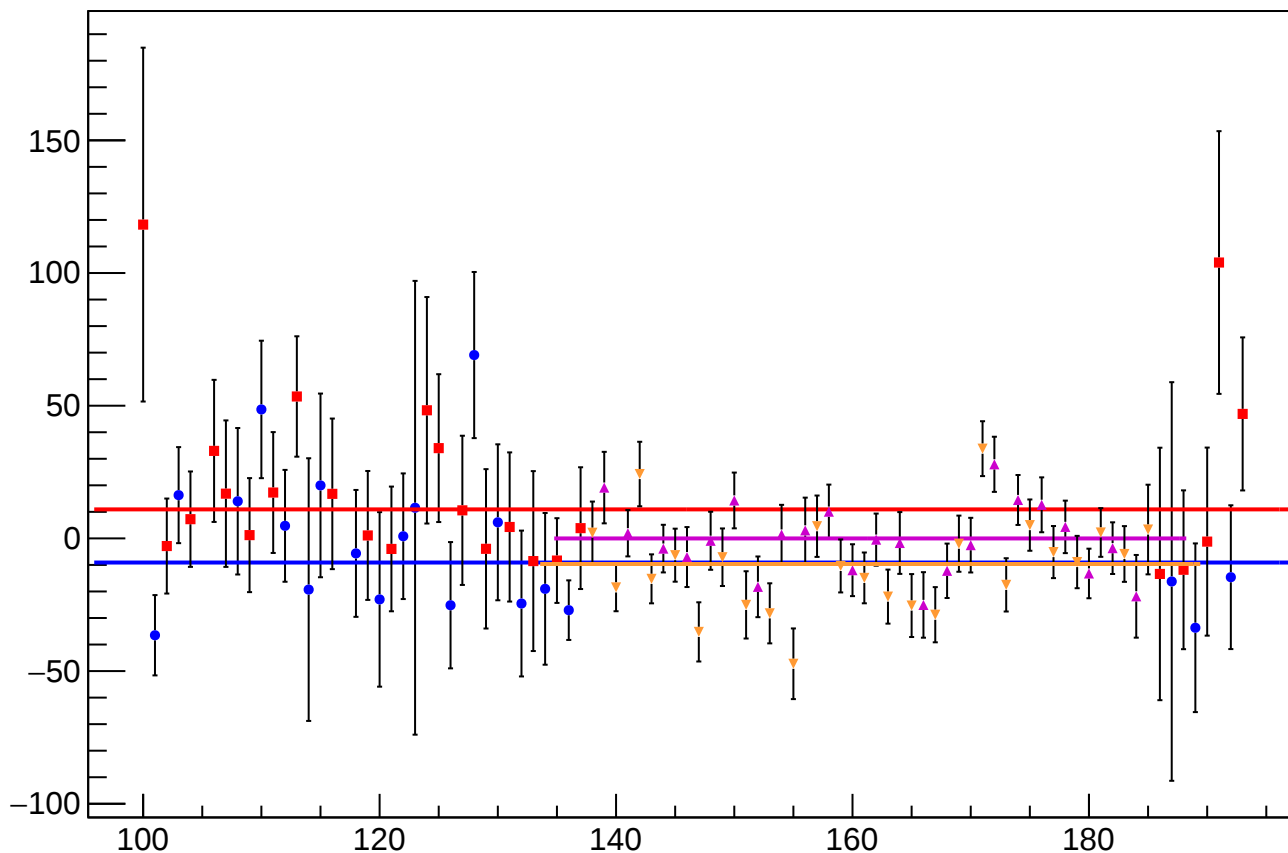
Right: 6360.870+/-1.118 χ^2/NDF : 2851725.0/43

In: 6603.709+/-0.939 χ^2/NDF : 1452549.2/42

Out: 6469.483+/-0.884 χ^2/NDF : 2252451.8/48

All: 6532.529+/-0.644 χ^2/NDF : 3715831.9/91

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.096 ± 5.325 $\chi^2/\text{NDF}: 23.1/19$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 10.930 ± 5.265 $\chi^2/\text{NDF}: 18.0/23$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

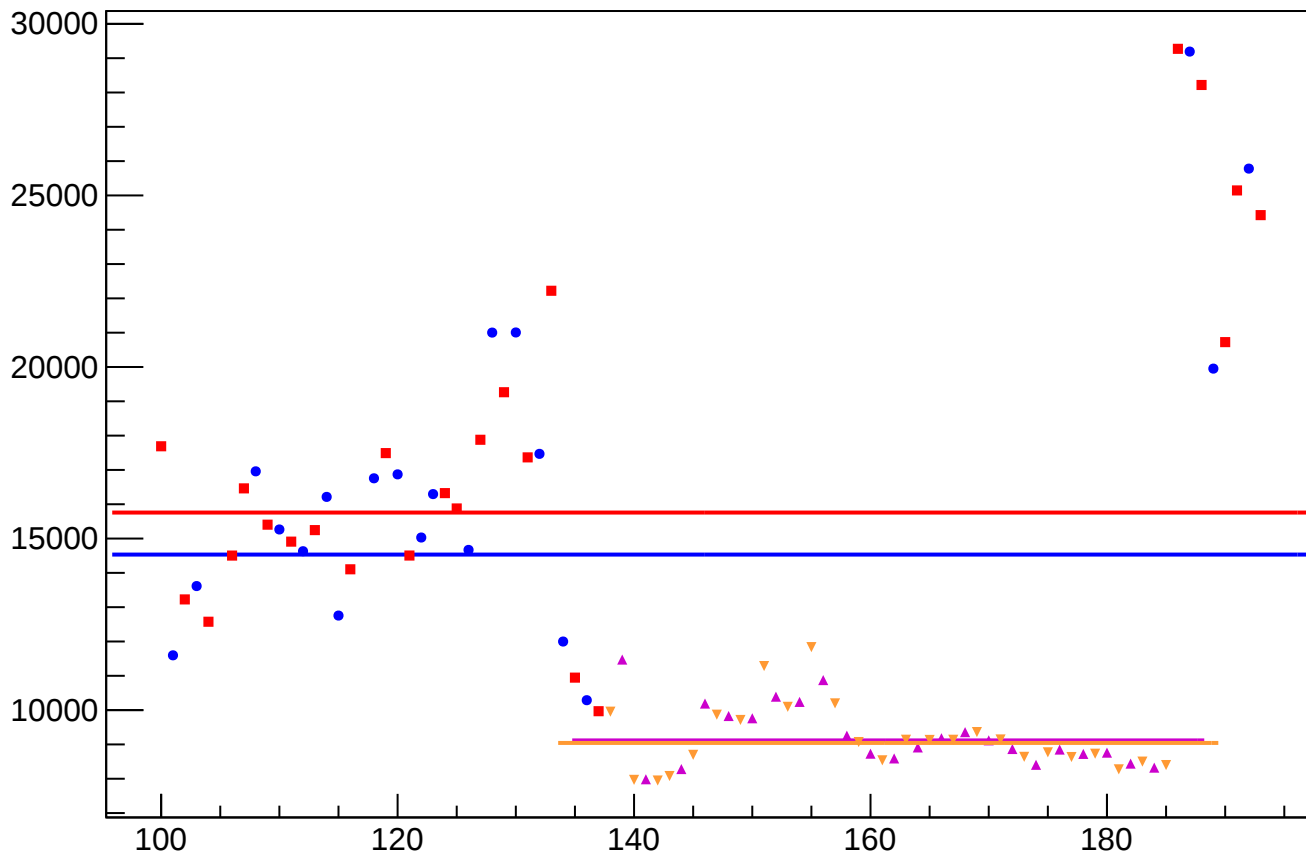
Right: 1.030 ± 3.744 $\chi^2/\text{NDF}: 48.3/43$

In: -1.335 ± 2.027 $\chi^2/\text{NDF}: 56.2/42$

Out: -6.782 ± 1.965 $\chi^2/\text{NDF}: 91.0/48$

All: -4.143 ± 1.411 $\chi^2/\text{NDF}: 151.0/91$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14533.130 $\pm$ 3.765 χ^2/NDF : 1120192.5/19

Left Out: 9043.485 $\pm$ 1.498 χ^2/NDF : 328192.2/24

Right Out: 15757.770 $\pm$ 3.723 χ^2/NDF : 1364575.0/23

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

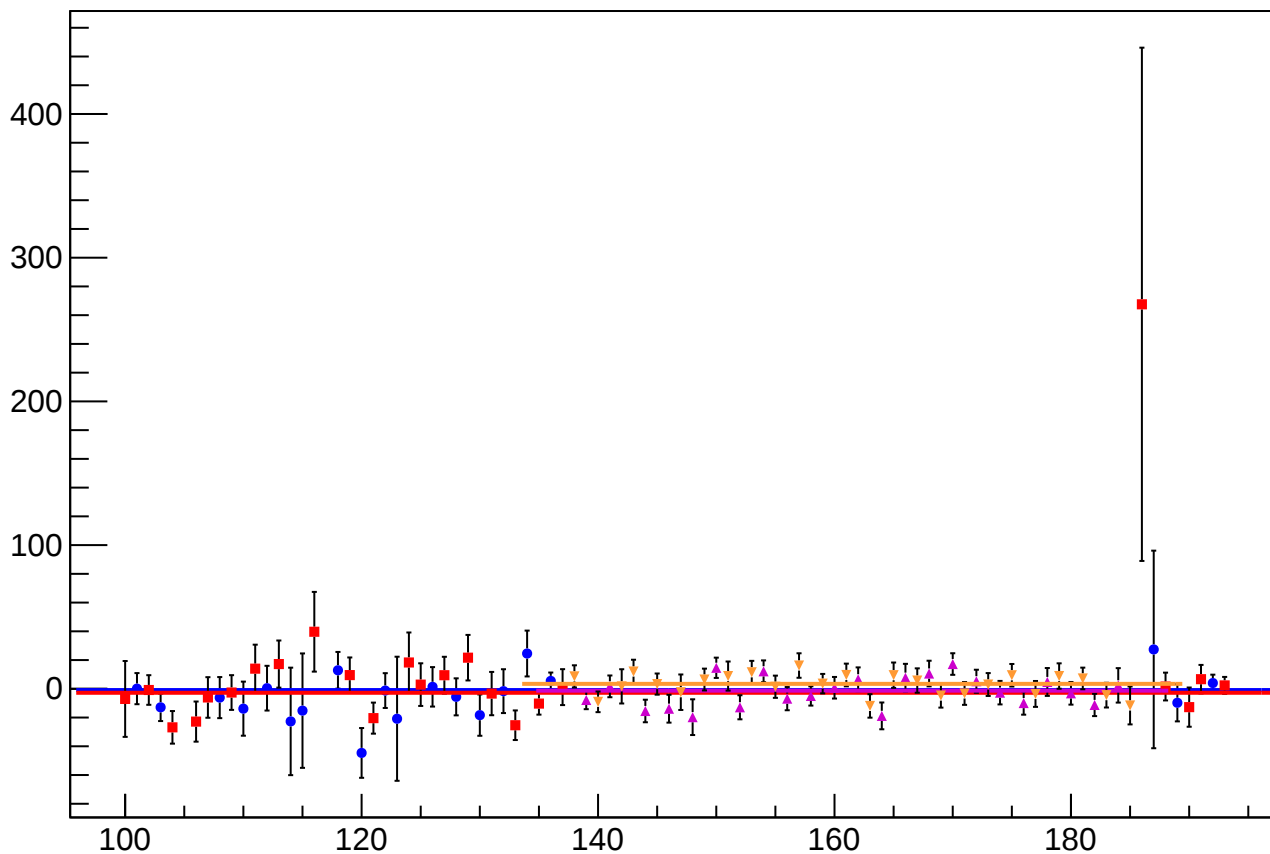
Right: 15152.347 $\pm$ 2.647 χ^2/NDF : 2538259.6/43

In: 9901.785 $\pm$ 1.433 χ^2/NDF : 3167246.5/42

Out: 9978.857 $\pm$ 1.390 χ^2/NDF : 4492188.0/48

All: 9941.514 $\pm$ 0.998 χ^2/NDF : 7660925.1/91

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -0.872 ± 2.684 $\chi^2/\text{NDF}: 17.1/19$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -2.765 ± 2.437 $\chi^2/\text{NDF}: 30.2/23$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

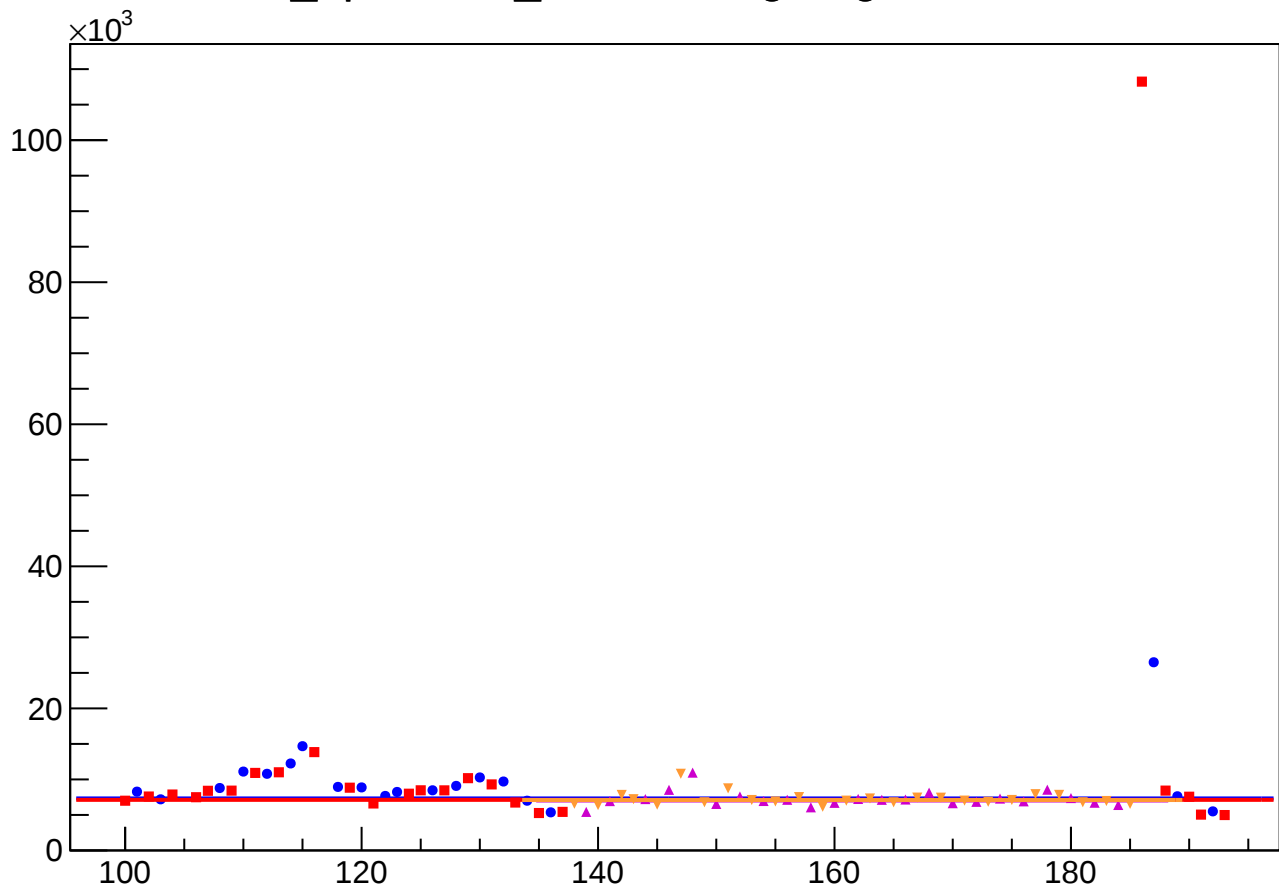
Right: -1.909 ± 1.804 $\chi^2/\text{NDF}: 47.6/43$

In: -1.171 ± 1.437 $\chi^2/\text{NDF}: 53.7/42$

Out: 1.463 ± 1.375 $\chi^2/\text{NDF}: 53.5/48$

All: 0.204 ± 0.993 $\chi^2/\text{NDF}: 109.0/91$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7323.802 ± 1.898 $\chi^2/\text{NDF}: 1133824.7/19$

Left Out: 7098.726 ± 1.178 $\chi^2/\text{NDF}: 382550.4/24$

Right Out: 7125.111 ± 1.723 $\chi^2/\text{NDF}: 1773069.7/23$

Left In: 7033.702 ± 1.203 $\chi^2/\text{NDF}: 541035.5/22$

Left: 7066.886 ± 0.842 $\chi^2/\text{NDF}: 925077.6/47$

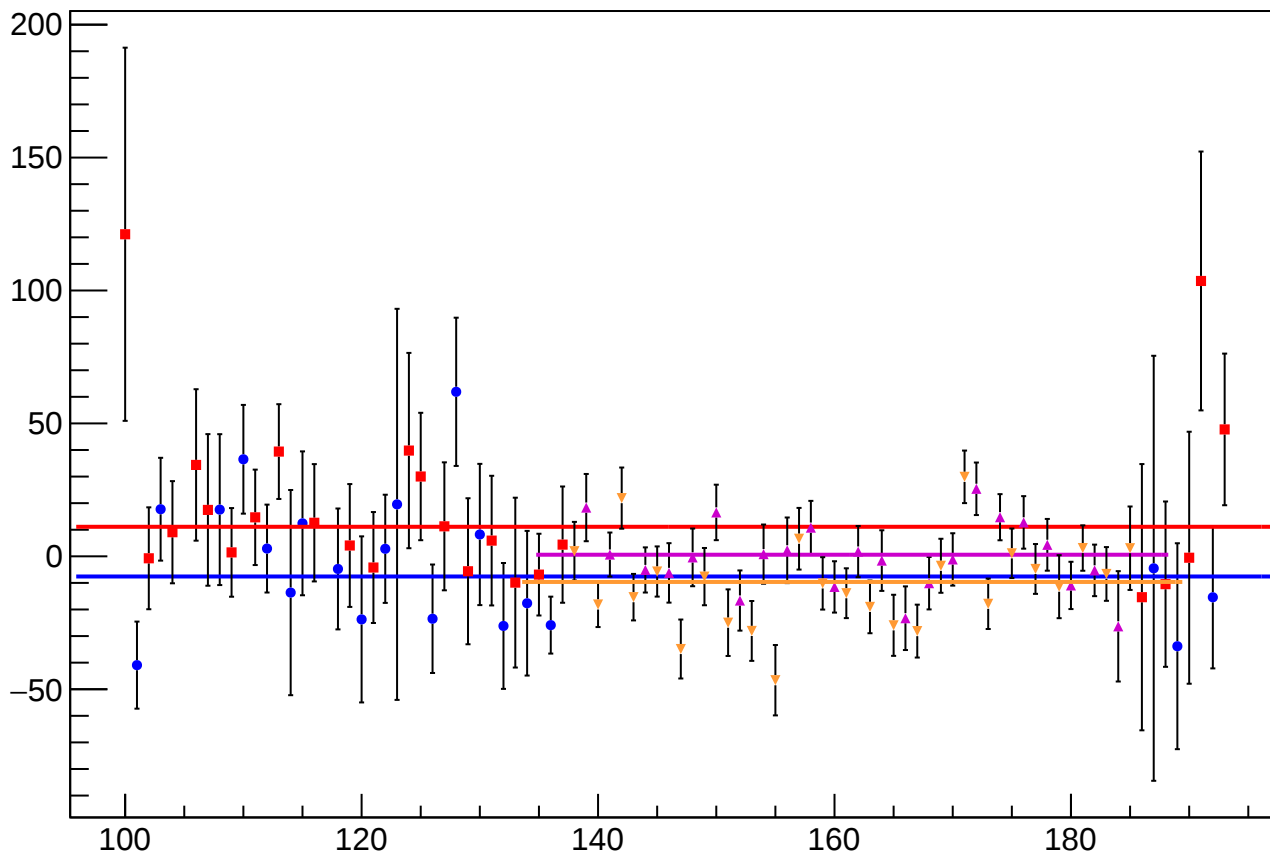
Right: 7214.881 ± 1.276 $\chi^2/\text{NDF}: 2912902.8/43$

In: 7116.824 ± 1.016 $\chi^2/\text{NDF}: 1691530.6/42$

Out: 7107.132 ± 0.972 $\chi^2/\text{NDF}: 2155779.9/48$

All: 7111.767 ± 0.702 $\chi^2/\text{NDF}: 3847358.0/91$

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.585 ± 4.971 χ^2/NDF : 24.3/19

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.111 ± 4.867 χ^2/NDF : 16.7/23

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

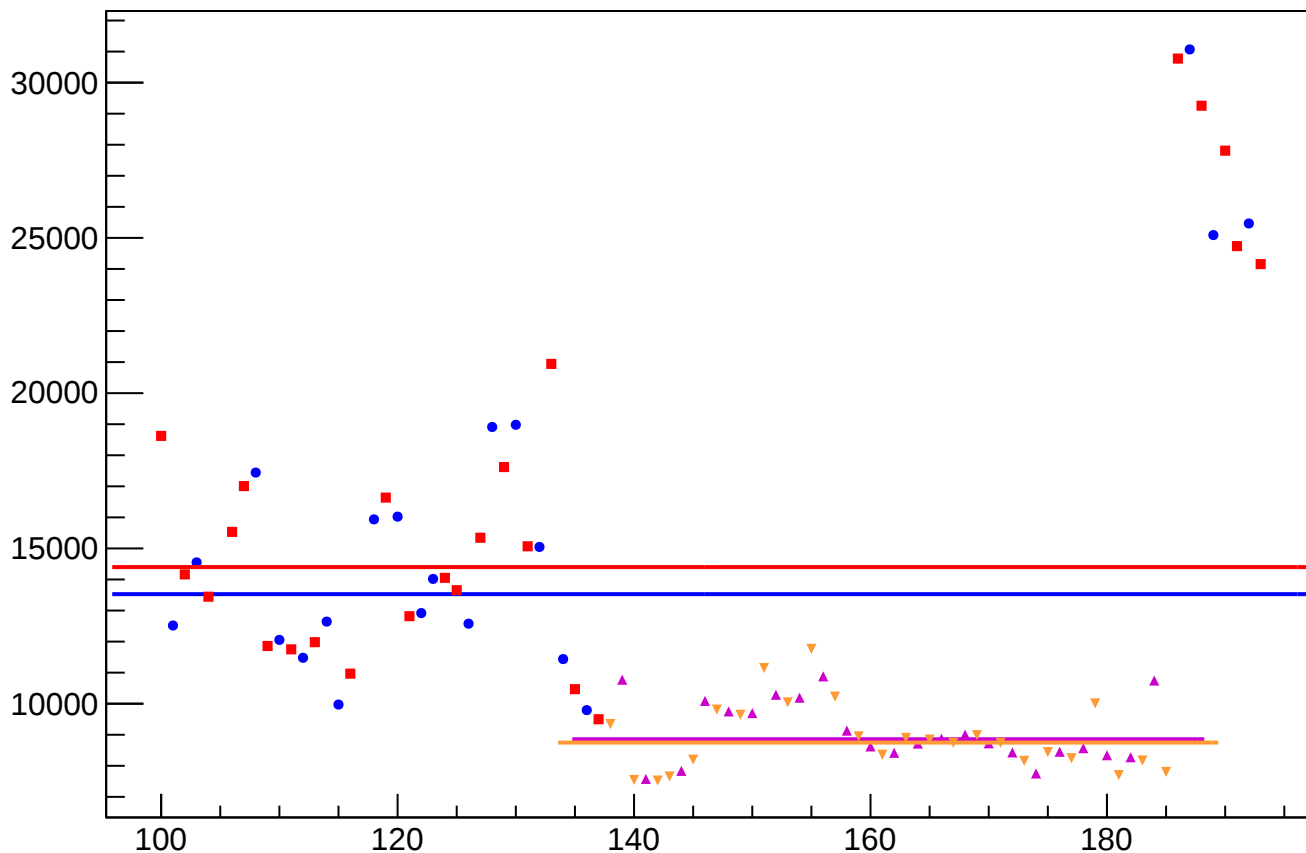
Right: 1.960 ± 3.478 χ^2/NDF : 48.3/43

In: -0.675 ± 1.962 χ^2/NDF : 56.3/42

Out: -6.495 ± 1.895 χ^2/NDF : 89.8/48

All: -3.686 ± 1.363 χ^2/NDF : 150.6/91

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13527.652 $\pm$ 3.515 χ^2 /NDF: 1264061.9/19

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 14399.419 $\pm$ 3.442 χ^2 /NDF: 1741677.7/23

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF: 367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

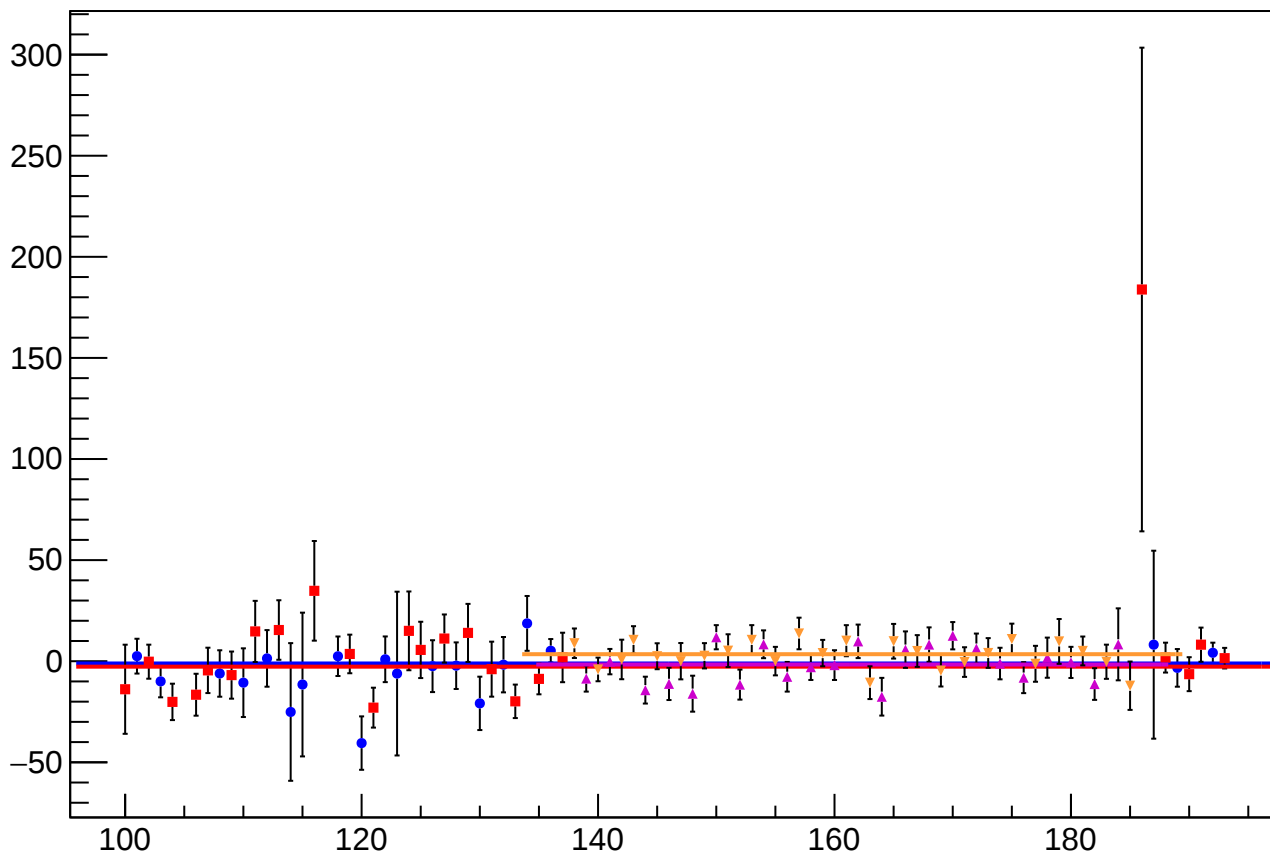
Right: 13972.714 $\pm$ 2.459 χ^2 /NDF: 3037144.7/43

In: 9583.266 $\pm$ 1.387 χ^2 /NDF: 3123254.7/42

Out: 9604.971 $\pm$ 1.340 χ^2 /NDF: 4492443.9/48

All: 9594.494 $\pm$ 0.964 χ^2 /NDF: 7615825.2/91

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -1.122+/-2.331 χ^2/NDF : 18.4/19

Left Out: 3.473+/-1.524 χ^2/NDF :15.8/24

Right Out: -2.695+/-2.068 χ^2/NDF : 30.2/23

Left In: -1.638+/-1.578 χ^2/NDF :33.7/22

Left: 1.006+/-1.096 χ^2/NDF : 54.9/47

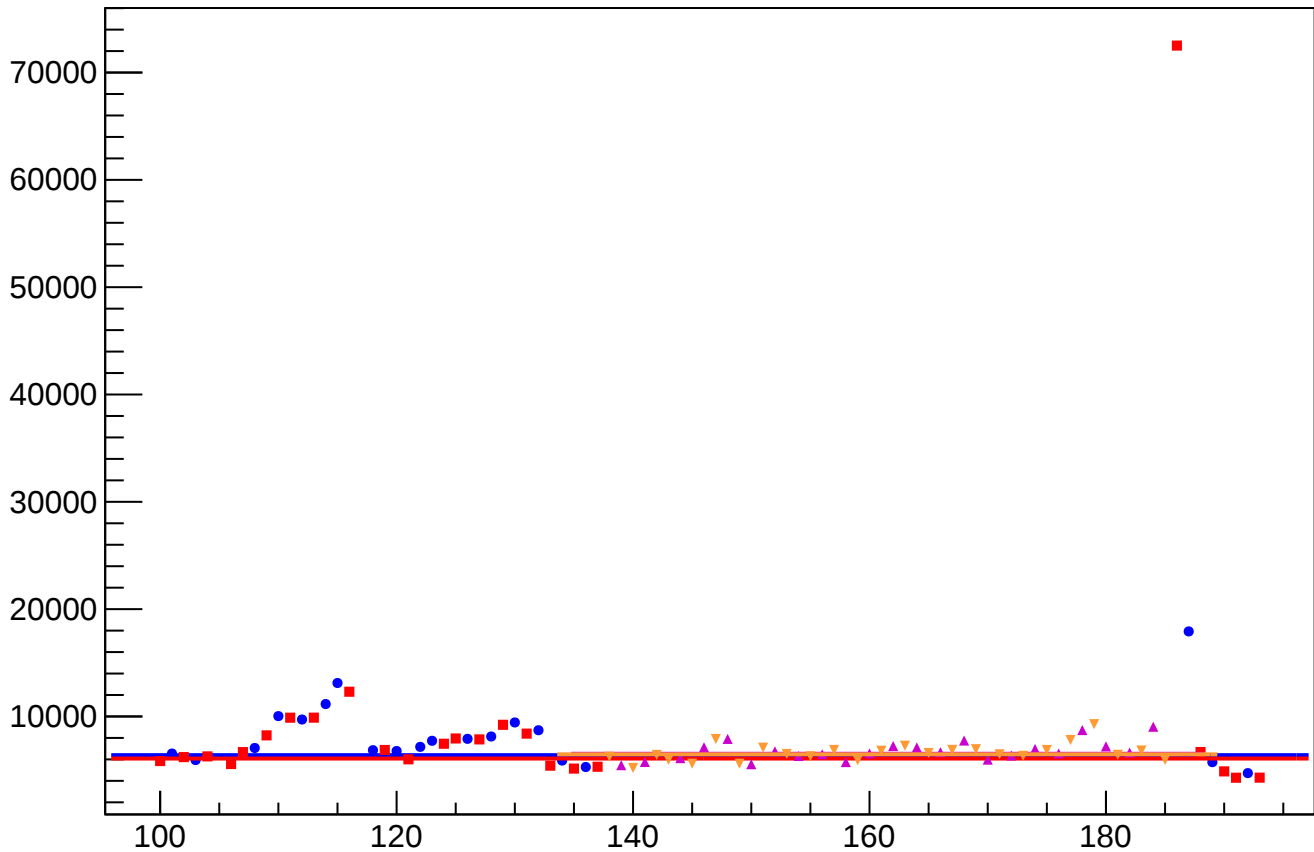
Right: -2.002+/-1.547 χ^2/NDF : 48.8/43

In: -1.476+/-1.307 χ^2/NDF :52.2/42

Out: 1.302+/-1.227 χ^2/NDF :51.7/48

All: 0.000+/-0.894 χ^2/NDF : 106.3/91

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6394.664 $\pm$ 1.648 χ^2/NDF : 1016961.2/19

Left Out: 6471.976 $\pm$ 1.078 χ^2/NDF : 490282.9/24

Right Out: 6079.668 $\pm$ 1.462 χ^2/NDF : 1785288.2/23

Left In: 6521.975 $\pm$ 1.116 χ^2/NDF : 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2/NDF : 971356.4/47

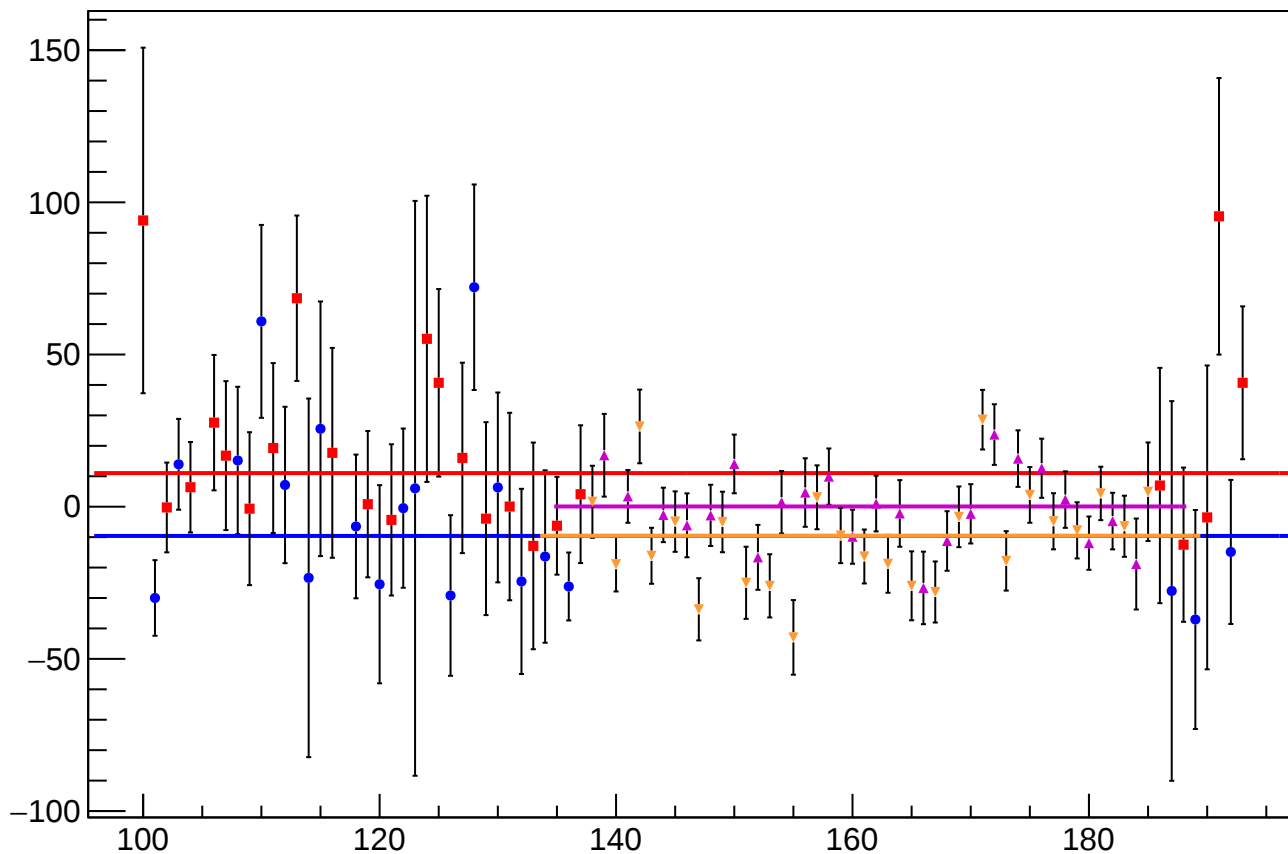
Right: 6218.403 $\pm$ 1.094 χ^2/NDF : 2822682.1/43

In: 6481.976 $\pm$ 0.924 χ^2/NDF : 1501086.7/42

Out: 6333.889 $\pm$ 0.868 χ^2/NDF : 2322201.7/48

All: 6403.281 $\pm$ 0.632 χ^2/NDF : 3836938.6/91

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.606 ± 5.208 χ^2/NDF : 22.7/19

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 11.043 ± 5.164 χ^2/NDF : 18.5/23

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

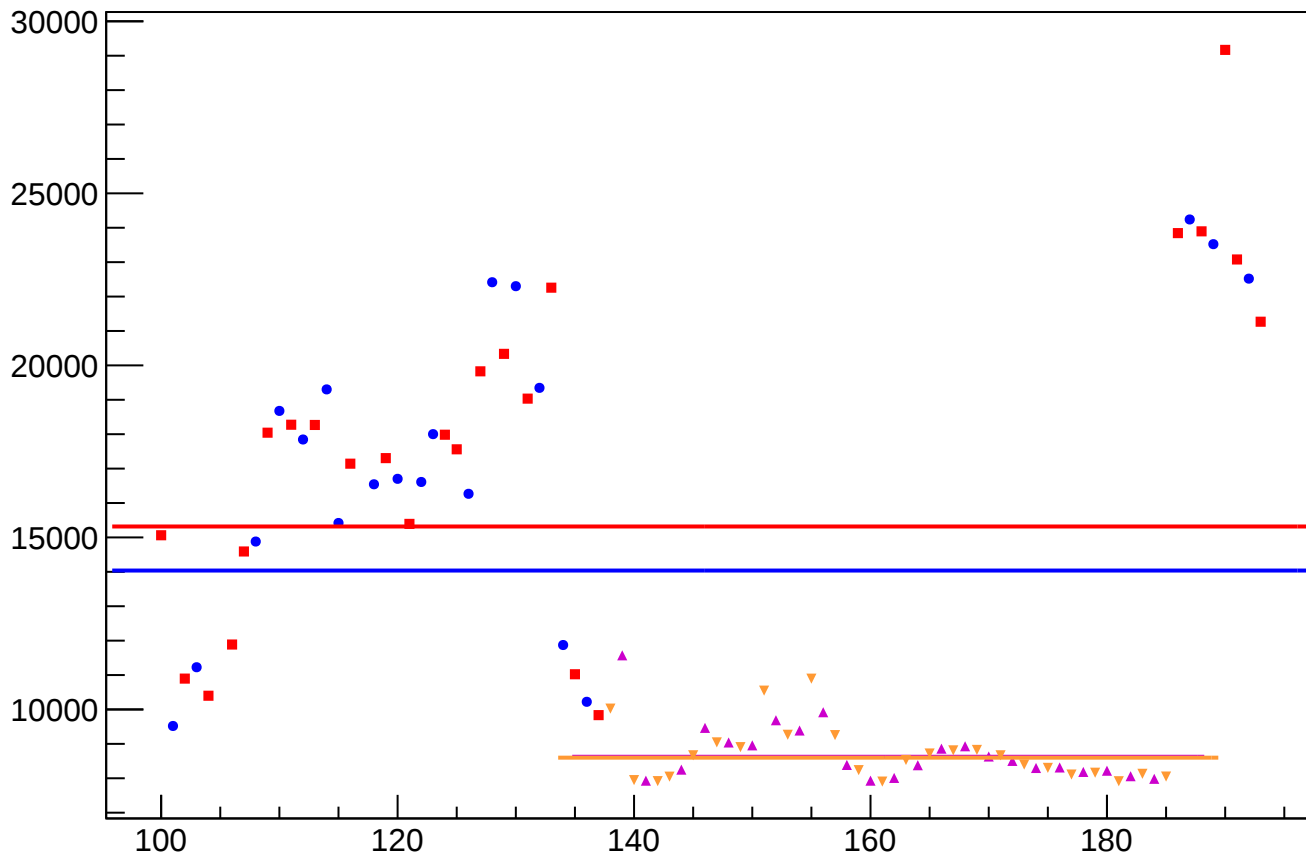
Right: 0.806 ± 3.667 χ^2/NDF : 49.1/43

In: -1.252 ± 1.926 χ^2/NDF : 55.5/42

Out: -6.840 ± 1.875 χ^2/NDF : 91.9/48

All: -4.121 ± 1.343 χ^2/NDF : 151.7/91

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 14037.299+/-3.682 χ^2/NDF : 1535387.0/19

Left Out: 8598.983+/-1.423 χ^2/NDF : 249070.5/24

Right Out: 15317.657+/-3.651 χ^2/NDF : 1669659.2/23

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

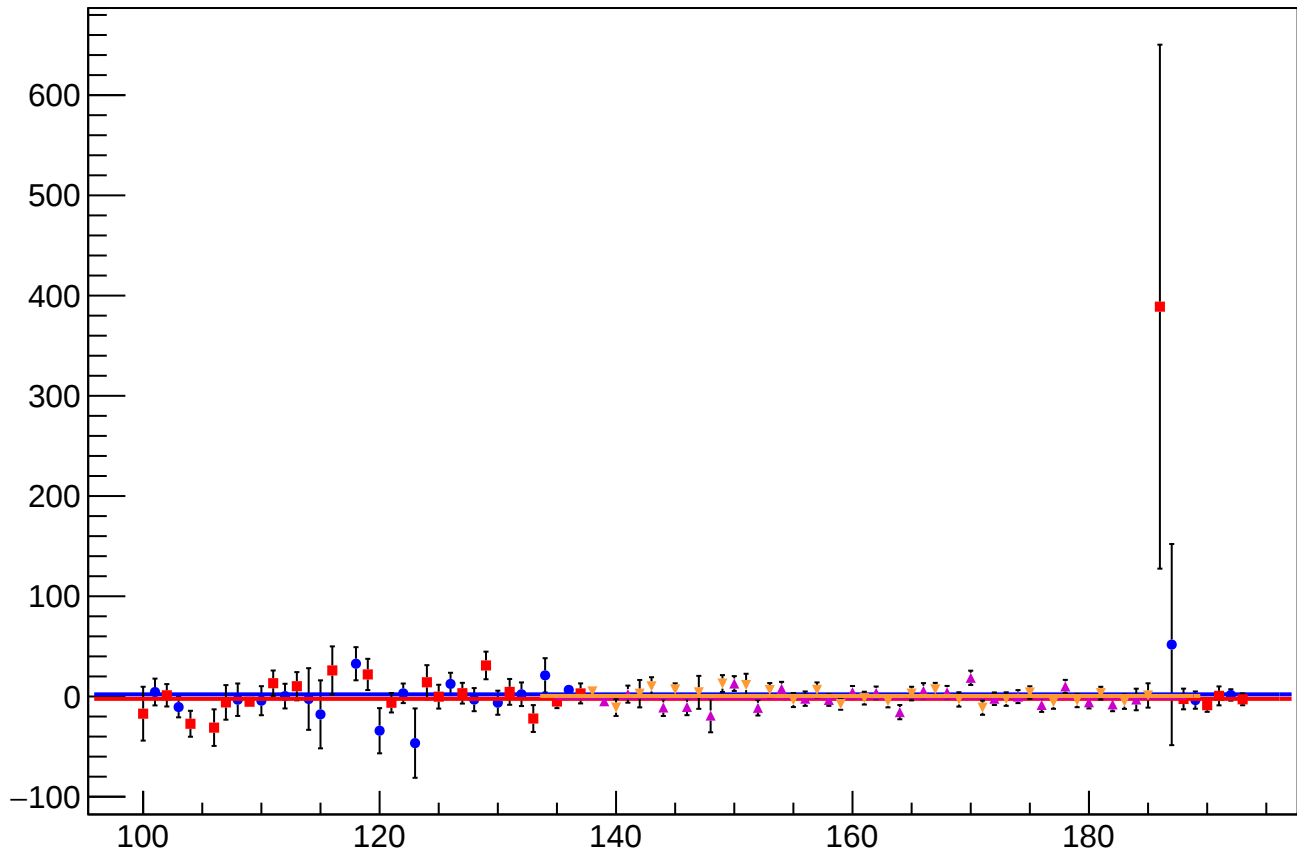
Right: 14682.928+/-2.593 χ^2/NDF : 3266006.1/43

In: 9365.326+/-1.362 χ^2/NDF : 3637329.4/42

Out: 9484.418+/-1.325 χ^2/NDF : 4858529.7/48

All: 9426.479+/-0.950 χ^2/NDF : 8499786.5/93

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.129 $\pm$ 2.388 χ^2/NDF : 14.7/19

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -2.363 $\pm$ 2.046 χ^2/NDF : 26.6/23

Left In: -1.050 $\pm$ 1.396 χ^2/NDF : 32.5/22

Left: -0.273 $\pm$ 0.995 χ^2/NDF : 52.6/47

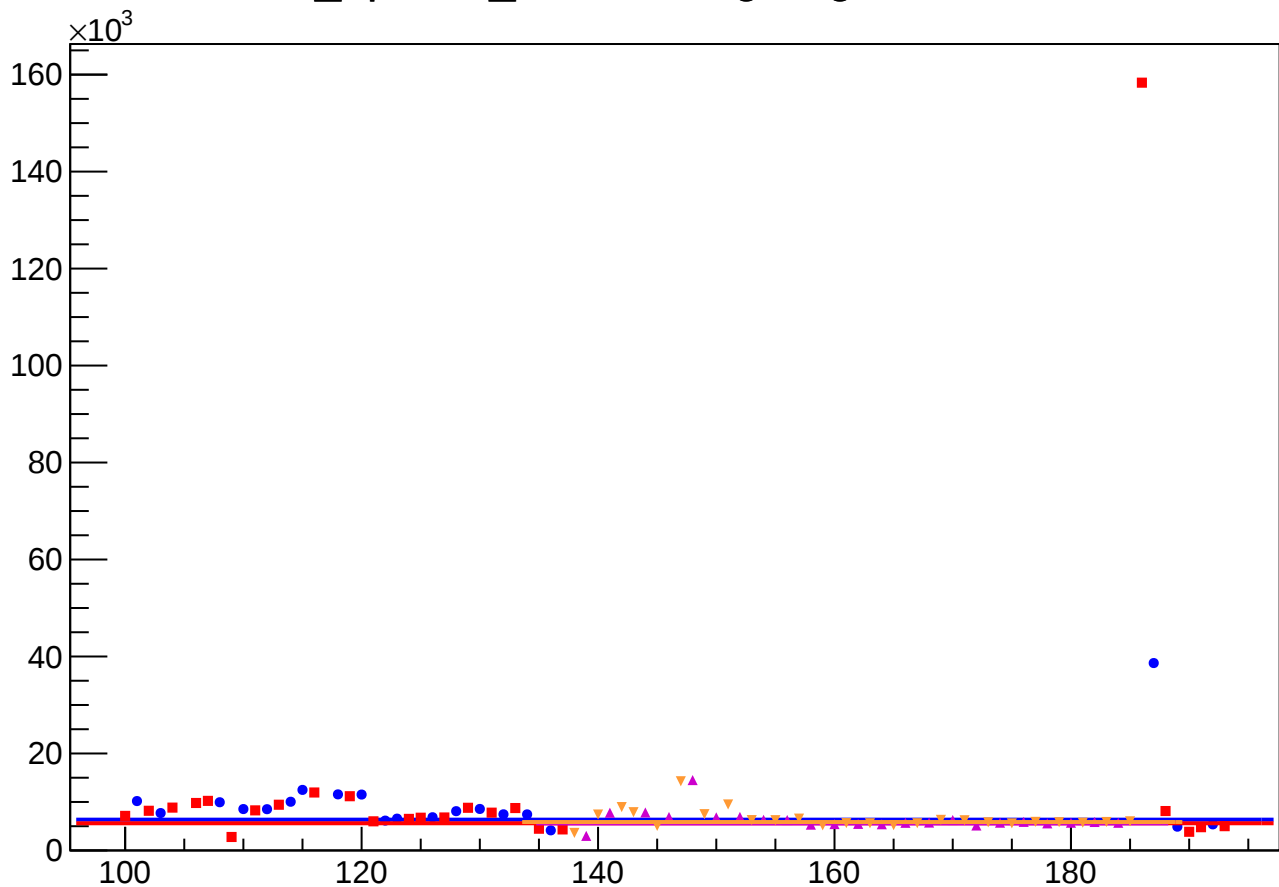
Right: -0.462 $\pm$ 1.554 χ^2/NDF : 43.4/43

In: -0.240 $\pm$ 1.205 χ^2/NDF : 48.6/42

Out: -0.410 $\pm$ 1.165 χ^2/NDF : 47.4/48

All: -0.328 $\pm$ 0.838 χ^2/NDF : 96.0/91

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6350.735 ± 1.688 $\chi^2/\text{NDF}: 1743475.3/19$

Left Out: 5860.605 ± 1.002 $\chi^2/\text{NDF}: 1690049.2/24$

Right Out: 5606.841 ± 1.447 $\chi^2/\text{NDF}: 3279759.0/23$

Left In: 5571.330 ± 0.987 $\chi^2/\text{NDF}: 2162788.3/22$

Left: 5713.698 ± 0.703 $\chi^2/\text{NDF}: 3895130.2/47$

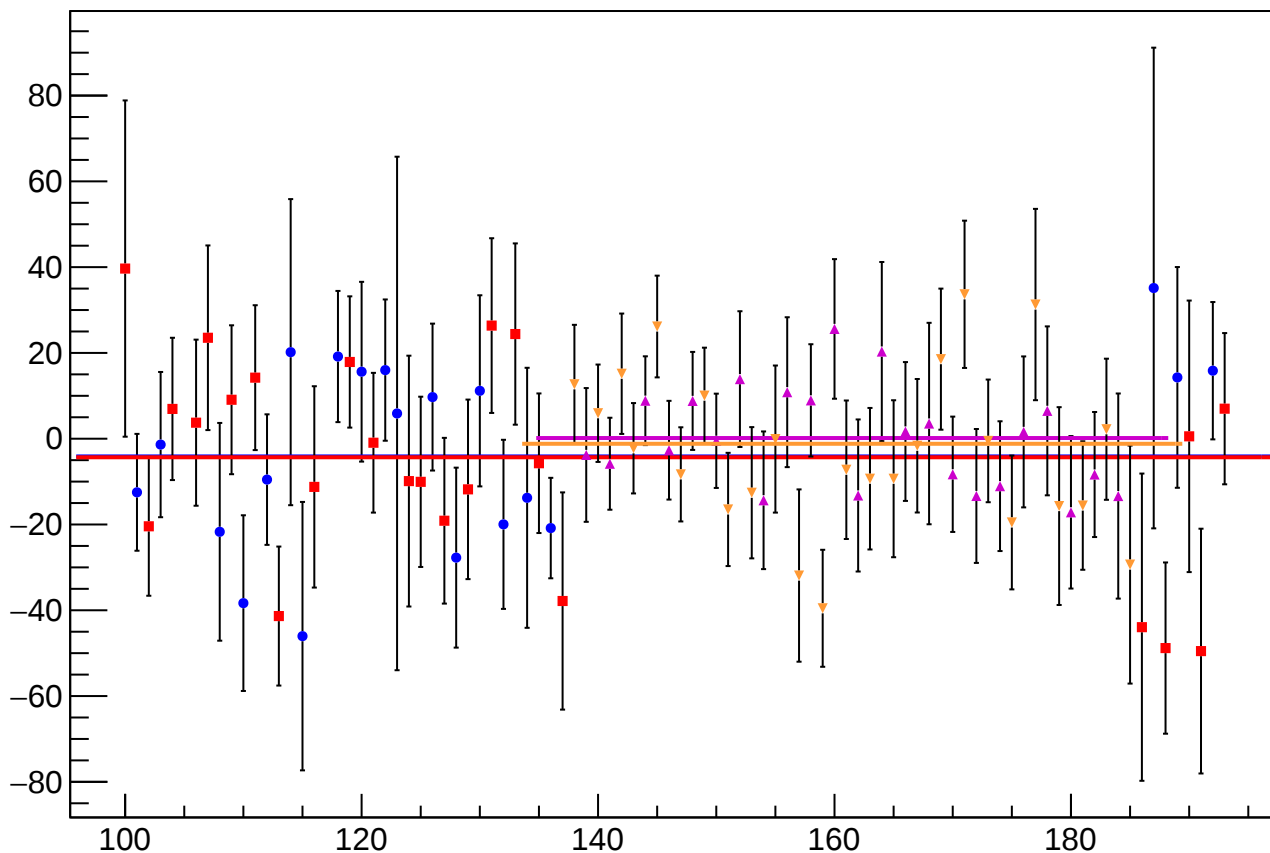
Right: 5921.752 ± 1.099 $\chi^2/\text{NDF}: 5135175.3/43$

In: 5769.776 ± 0.852 $\chi^2/\text{NDF}: 4065099.0/42$

Out: 5778.286 ± 0.824 $\chi^2/\text{NDF}: 4990597.7/48$

All: 5774.173 ± 0.592 $\chi^2/\text{NDF}: 9055748.2/91$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.133 ± 4.310 χ^2/NDF : 18.5/19

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -4.329 ± 4.056 χ^2/NDF : 29.7/23

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

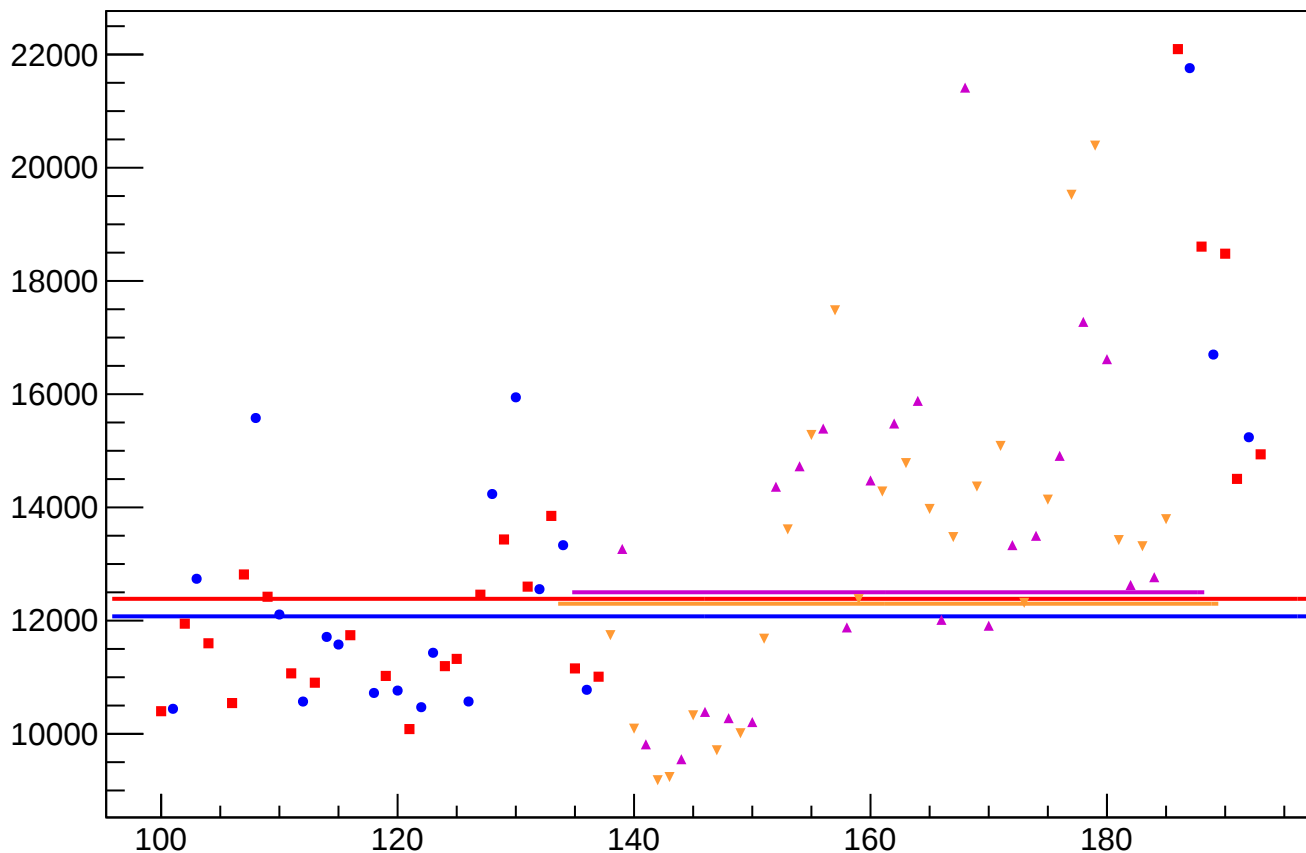
Right: -4.237 ± 2.954 χ^2/NDF : 48.2/43

In: -1.280 ± 2.494 χ^2/NDF : 30.7/42

Out: -2.266 ± 2.380 χ^2/NDF : 63.8/48

All: -1.796 ± 1.722 χ^2/NDF : 94.5/91

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12075.648 $\pm$ 3.048 χ^2 /NDF: 461409.4/19

Left Out: 12298.676 $\pm$ 2.078 χ^2 /NDF:1506026.8/24

Right Out: 12385.308 $\pm$ 2.868 χ^2 /NDF: 625683.1/23

Left In: 12500.795 $\pm$ 2.162 χ^2 /NDF:1357889.1/22

Left: 12395.720 $\pm$ 1.498 χ^2 /NDF: 2868458.0/47

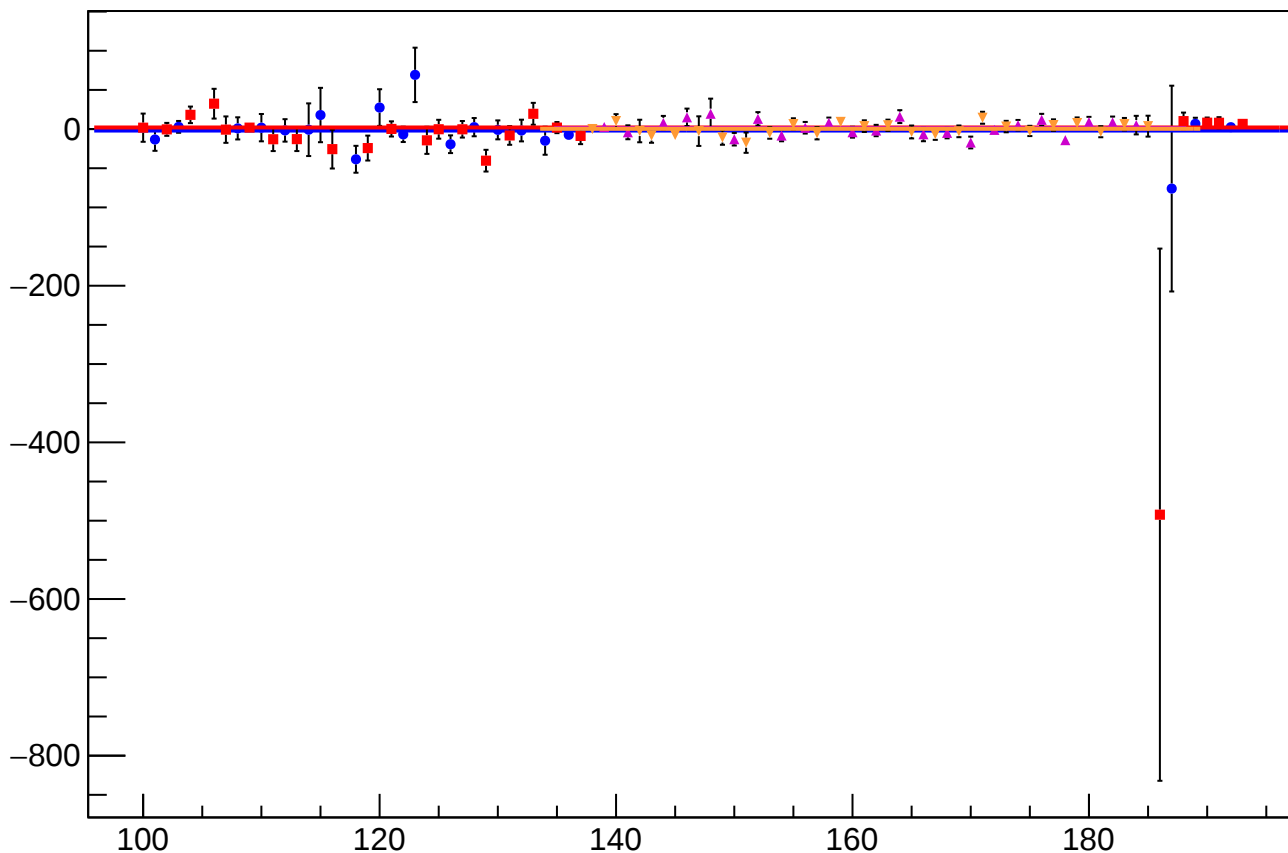
Right: 12239.886 $\pm$ 2.088 χ^2 /NDF: 1092568.4/43

In: 12358.430 $\pm$ 1.764 χ^2 /NDF:1832243.1/42

Out: 12328.505 $\pm$ 1.683 χ^2 /NDF:2132308.4/48

All: 12342.766 $\pm$ 1.217 χ^2 /NDF: 3964702.1/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.871 ± 2.236 $\chi^2/\text{NDF}: 18.9/19$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 2.027 ± 1.954 $\chi^2/\text{NDF}: 29.7/23$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

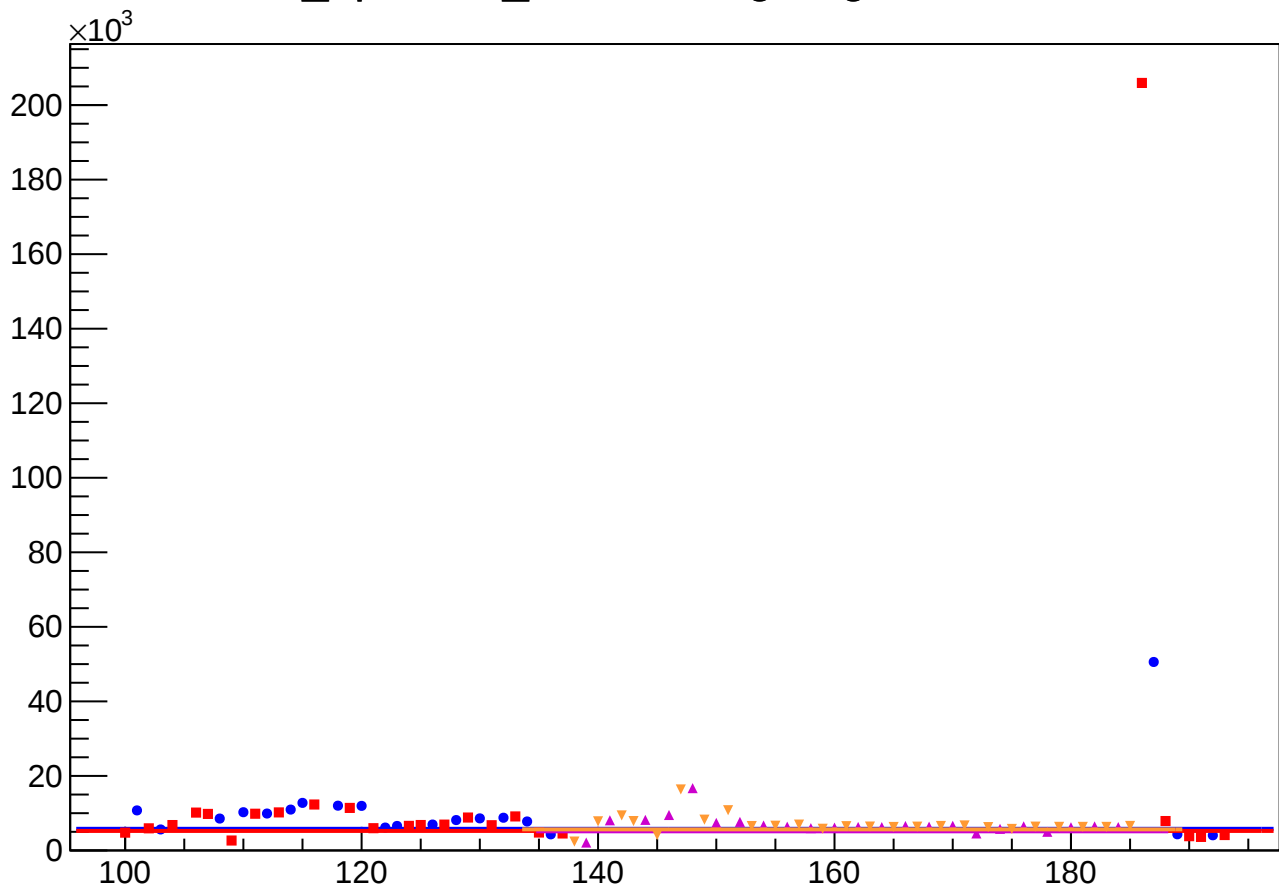
Right: 0.339 ± 1.471 $\chi^2/\text{NDF}: 50.4/43$

In: 0.335 ± 1.169 $\chi^2/\text{NDF}: 53.9/42$

Out: 0.939 ± 1.156 $\chi^2/\text{NDF}: 49.4/48$

All: 0.640 ± 0.822 $\chi^2/\text{NDF}: 103.4/91$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5806.225 $\pm$ 1.581 χ^2/NDF : 2290025.6/19

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 5239.729 $\pm$ 1.382 χ^2/NDF : 3366850.7/23

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

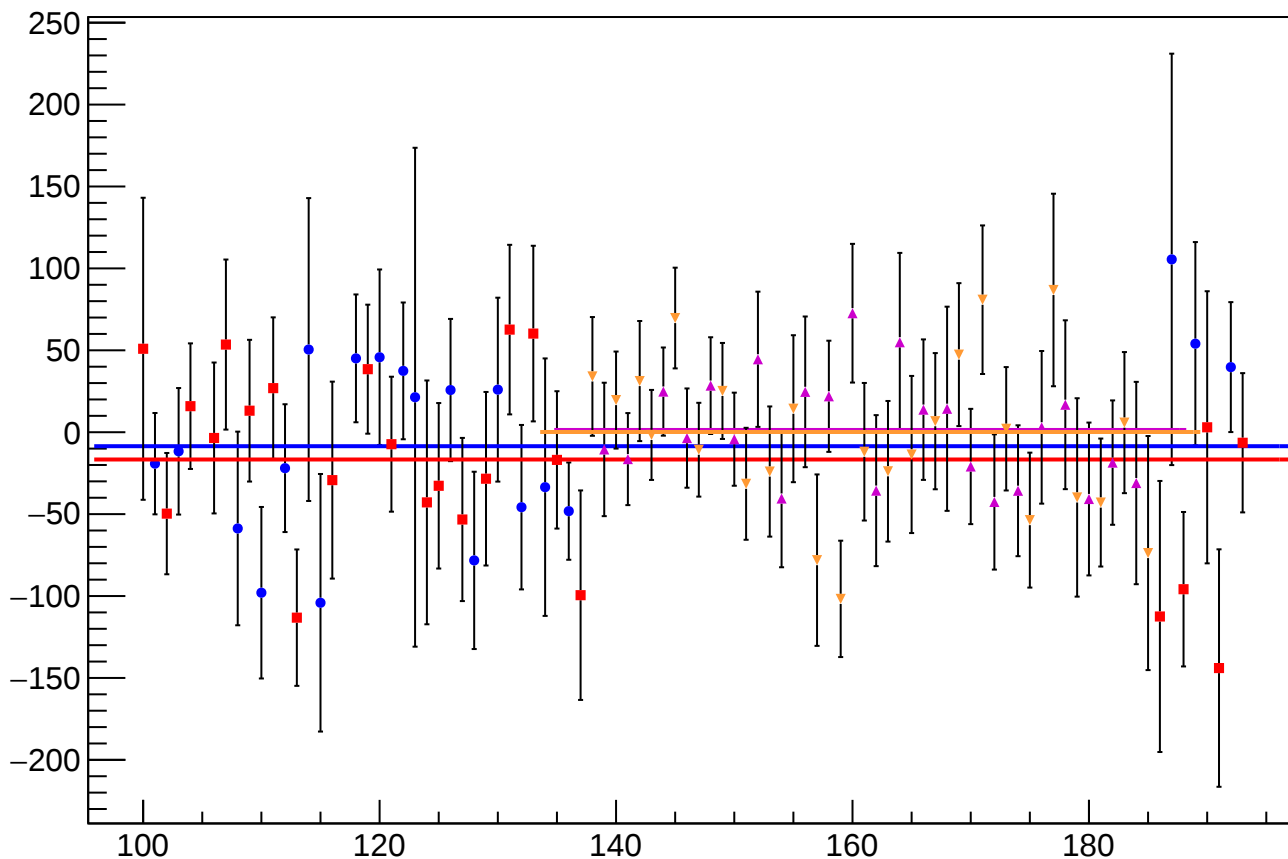
Right: 5485.057 $\pm$ 1.040 χ^2/NDF : 5729661.8/43

In: 5320.497 $\pm$ 0.827 χ^2/NDF : 7915526.4/42

Out: 5512.619 $\pm$ 0.817 χ^2/NDF : 7555418.9/48

All: 5417.649 $\pm$ 0.581 χ^2/NDF : 15498261.5/9

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.534 ± 10.680 χ^2/NDF : 18.4/19

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -16.650 ± 10.060 χ^2/NDF : 27.1/23

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

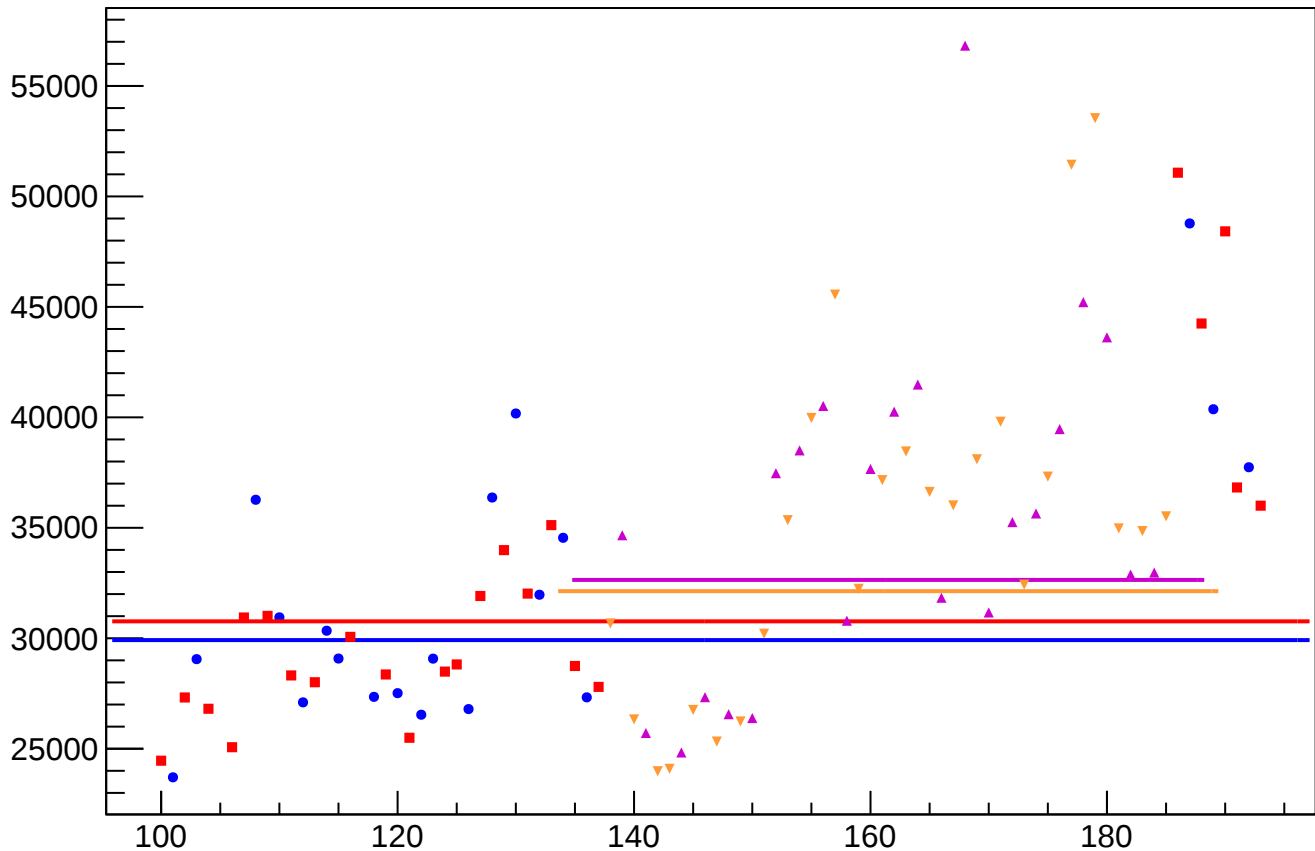
Right: -12.834 ± 7.323 χ^2/NDF : 45.8/43

In: -2.181 ± 6.398 χ^2/NDF : 32.2/42

Out: -6.044 ± 6.106 χ^2/NDF : 60.2/48

All: -4.203 ± 4.417 χ^2/NDF : 92.6/91

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29917.220+/-7.552

χ^2/NDF : 452883.4/19

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 30765.762+/-7.114

χ^2/NDF : 589747.0/23

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

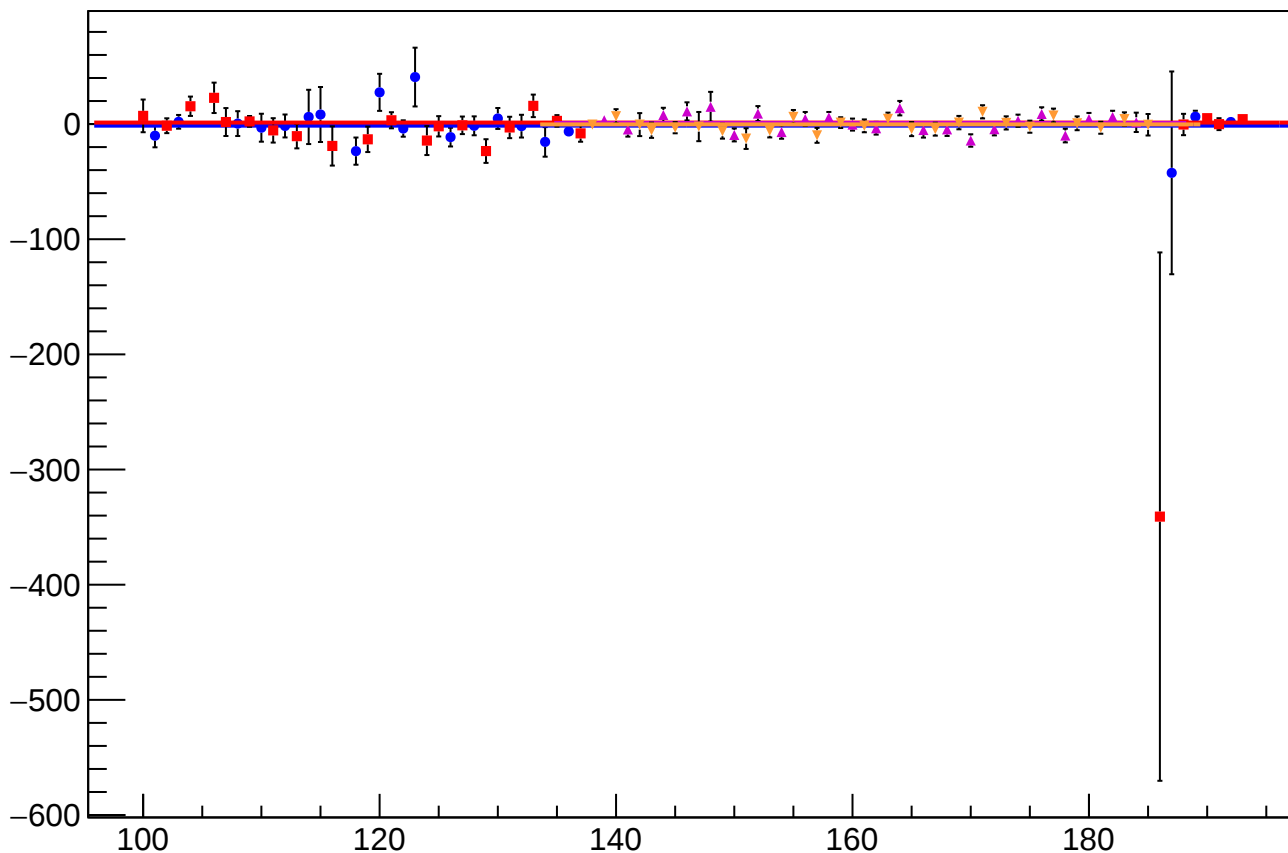
Right: 30366.834+/-5.178 χ^2/NDF : 1049319.6/43

In: 31663.680+/-4.524 χ^2/NDF : 1938454.7/42

Out: 31628.886+/-4.318 χ^2/NDF : 2153134.2/48

All: 31645.472+/-3.123 χ^2/NDF : 4091619.9/95

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.387 ± 1.609 χ^2/NDF : 19.9/19

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 1.289 ± 1.453 χ^2/NDF : 26.5/23

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

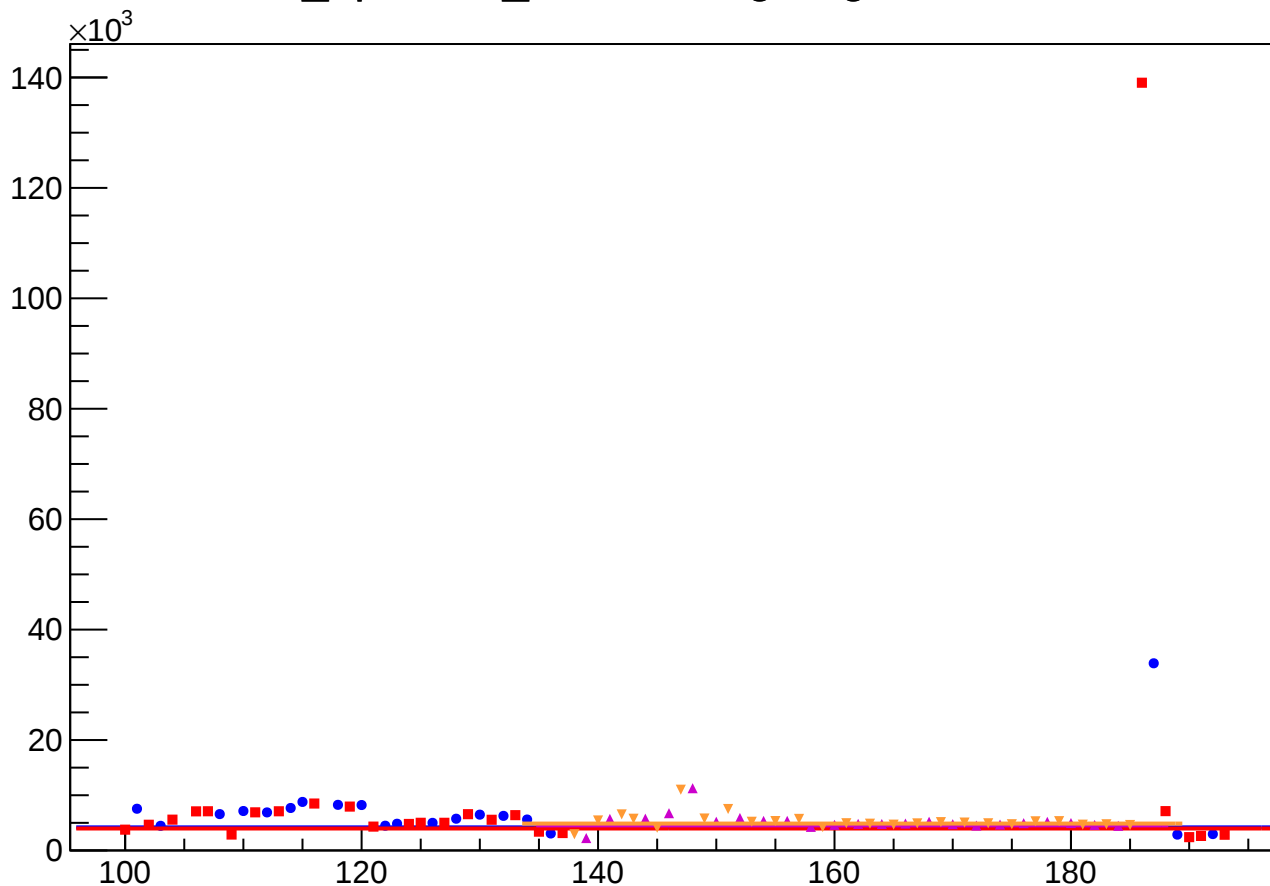
Right: 0.088 ± 1.078 χ^2/NDF : 47.9/43

In: 0.139 ± 0.931 χ^2/NDF : 57.5/42

Out: 0.319 ± 0.912 χ^2/NDF : 44.8/48

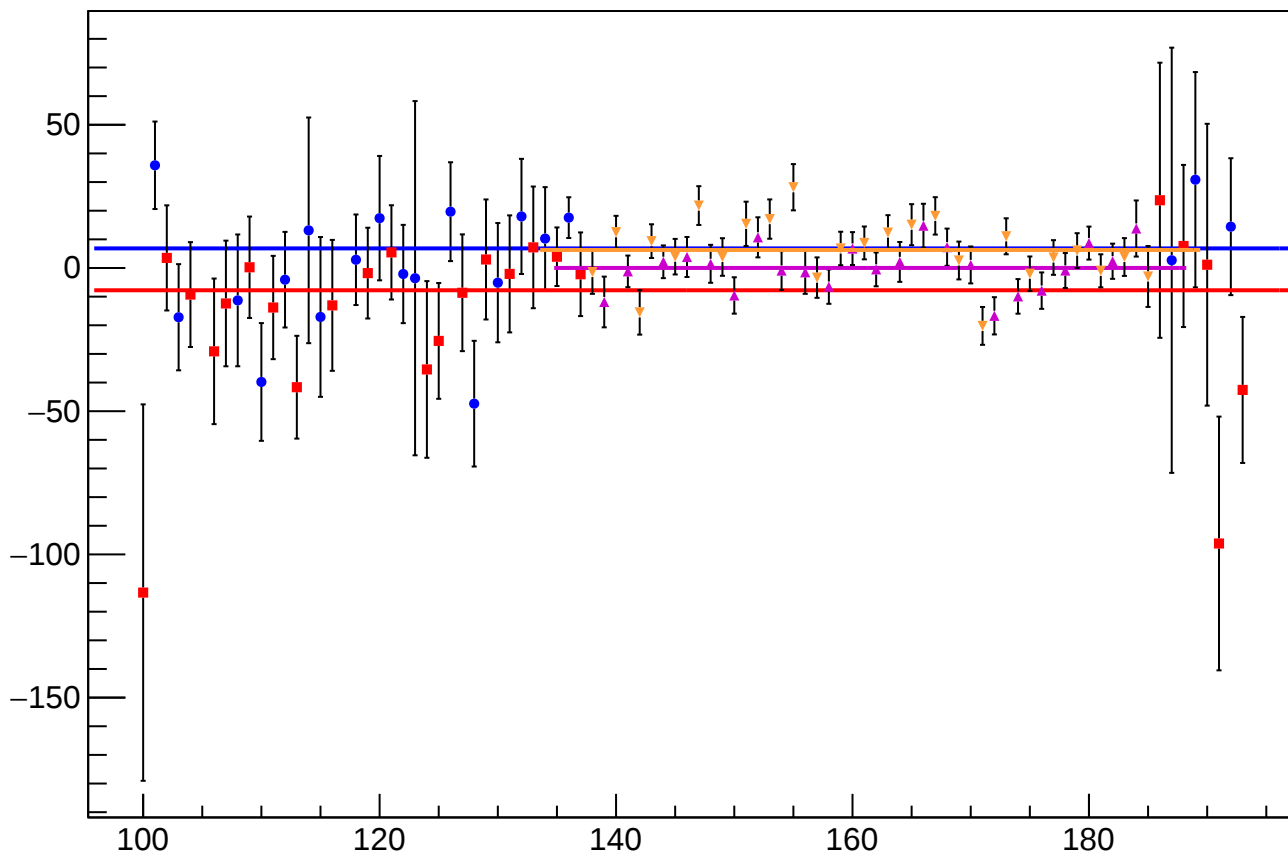
All: 0.231 ± 0.652 χ^2/NDF : 102.3/91

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4184.292 $\pm$ 1.138	χ^2/NDF : 2298173.7/19	Left: 4702.320 $\pm$ 0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567 $\pm$ 0.829	χ^2/NDF : 1511151.0/24	Right: 4069.539 $\pm$ 0.763	χ^2/NDF : 5497750.8/43
Right Out: 3975.990 $\pm$ 1.027	χ^2/NDF : 3181117.8/23	In: 4423.726 $\pm$ 0.659	χ^2/NDF : 4999061.0/42
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 4516.869 $\pm$ 0.645	χ^2/NDF : 5149596.9/48
		All: 4471.275 $\pm$ 0.461	χ^2/NDF : 10158867.7/9

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.842 ± 4.001 χ^2/NDF : 23.0/19

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -7.779 ± 4.084 χ^2/NDF : 18.9/23

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

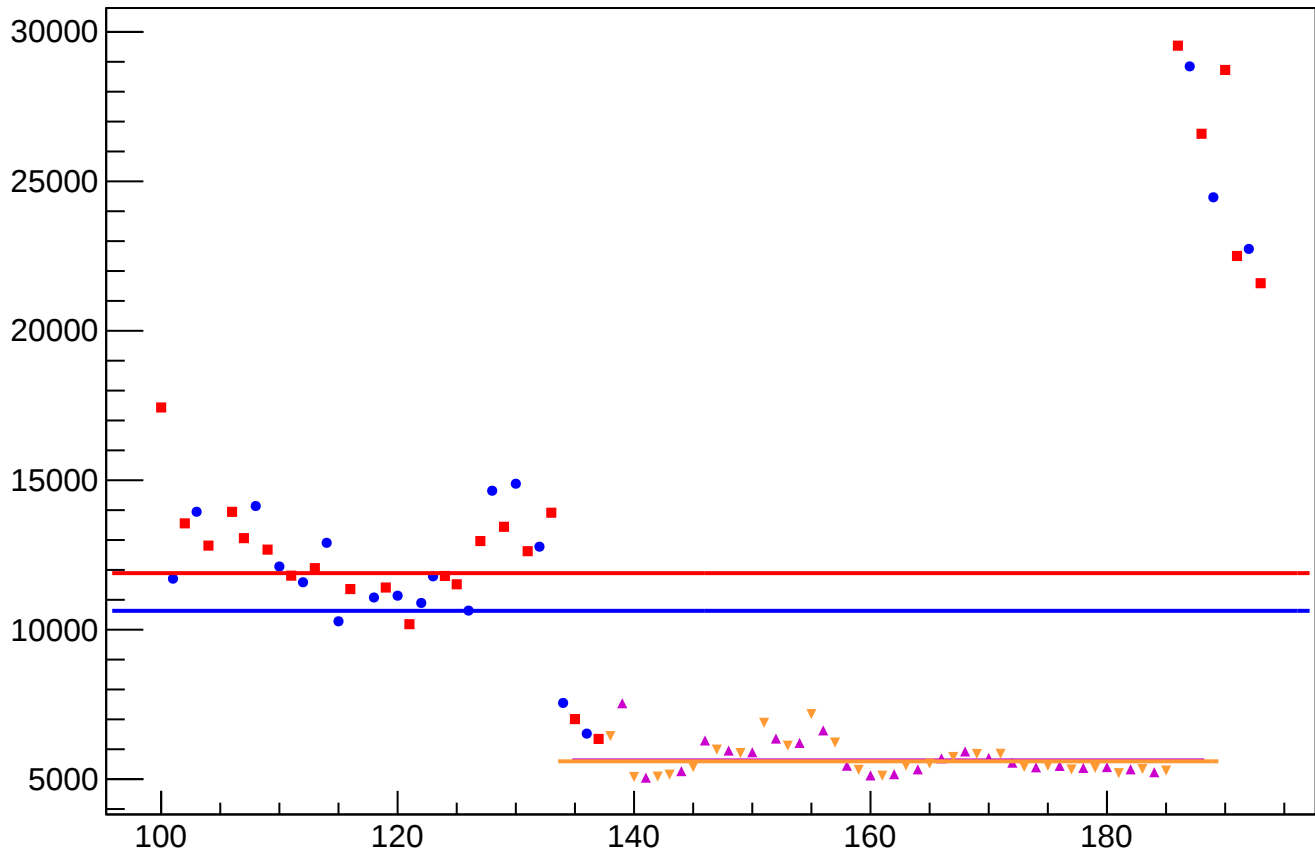
Right: -0.320 ± 2.858 χ^2/NDF : 48.4/43

In: 0.720 ± 1.282 χ^2/NDF : 55.5/42

Out: 4.982 ± 1.248 χ^2/NDF : 86.2/48

All: 2.909 ± 0.894 χ^2/NDF : 147.4/91

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10631.170 $\pm$ 2.829 χ^2/NDF : 1951994.1/19

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF :283998.1/24

Right Out: 11892.411 $\pm$ 2.887 χ^2/NDF : 2313577.6/23

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

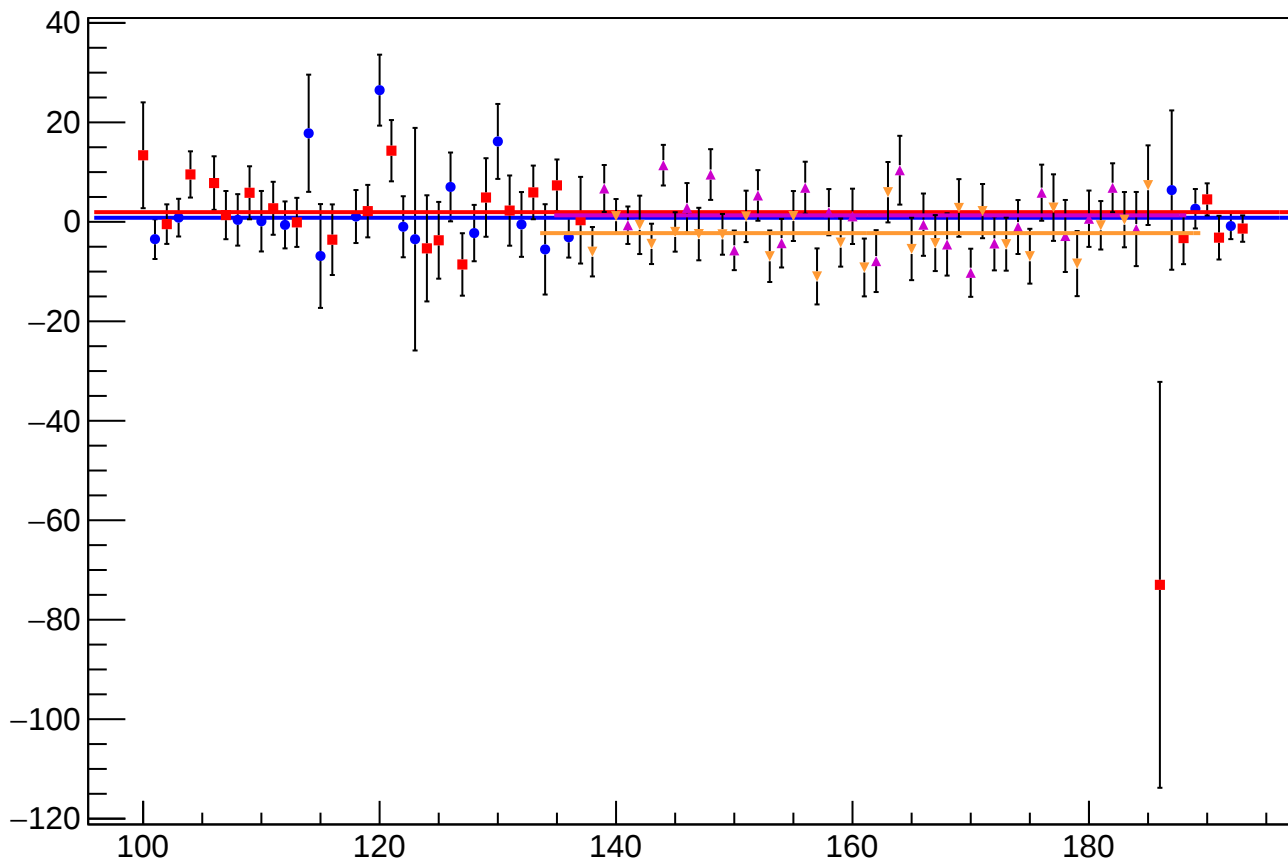
Right: 11248.942 $\pm$ 2.021 χ^2/NDF : 4362911.3/43

In: 6140.809 $\pm$ 0.906 χ^2/NDF :5038372.2/42

Out: 6184.012 $\pm$ 0.882 χ^2/NDF :6908260.2/48

All: 6162.995 $\pm$ 0.632 χ^2/NDF : 11947799.1/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 0.822 ± 1.180 $\chi^2/\text{NDF}: 24.4/19$

Left Out: -2.268 ± 1.029 $\chi^2/\text{NDF}: 15.4/24$

Right Out: 1.949 ± 1.062 $\chi^2/\text{NDF}: 24.2/23$

Left In: 1.305 ± 1.077 $\chi^2/\text{NDF}: 30.8/22$

Left: -0.562 ± 0.744 $\chi^2/\text{NDF}: 51.9/47$

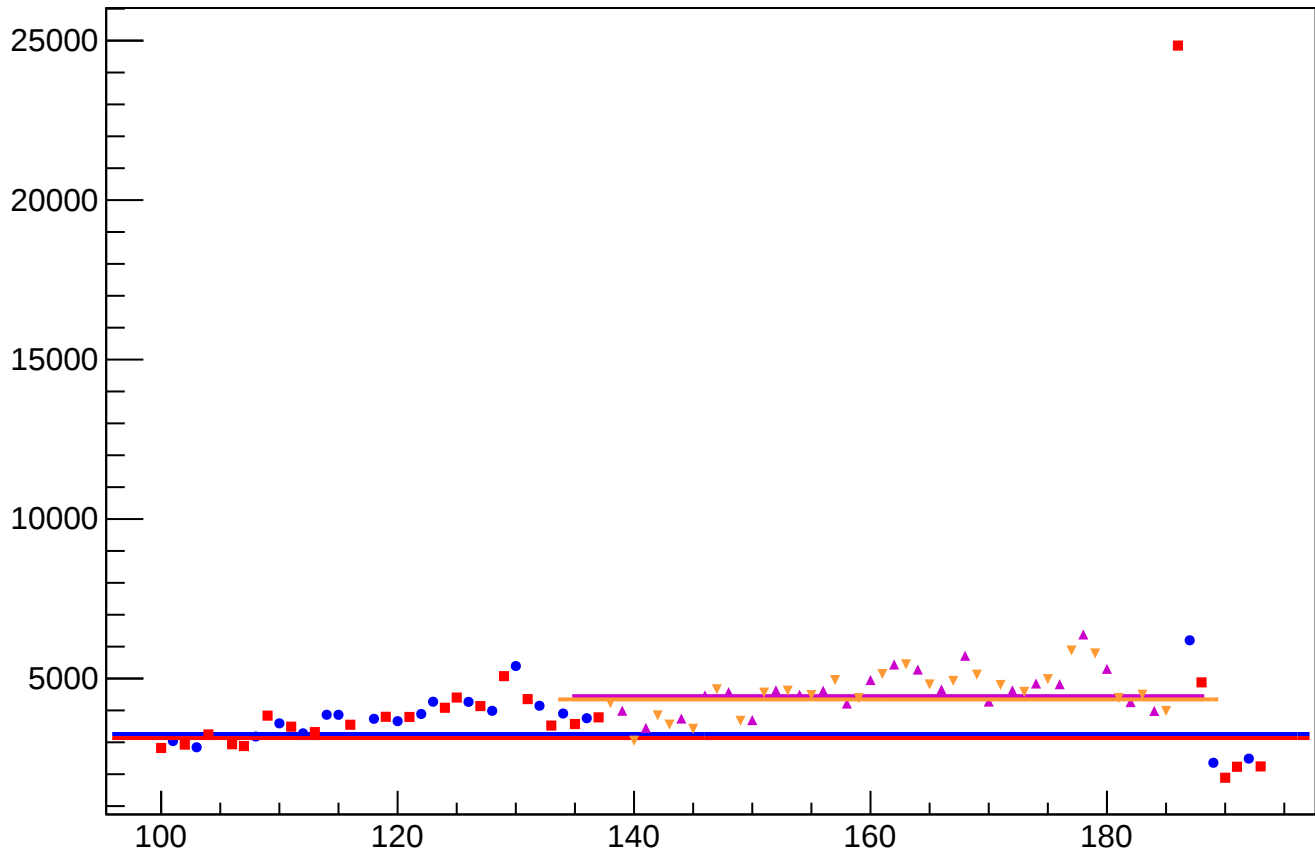
Right: 1.445 ± 0.789 $\chi^2/\text{NDF}: 49.1/43$

In: 1.086 ± 0.796 $\chi^2/\text{NDF}: 55.3/42$

Out: -0.225 ± 0.739 $\chi^2/\text{NDF}: 47.7/48$

All: 0.382 ± 0.541 $\chi^2/\text{NDF}: 104.4/91$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3260.231+/-0.835 χ^2/NDF : 749656.2/19

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 3133.232+/-0.751 χ^2/NDF : 1855650.0/23

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

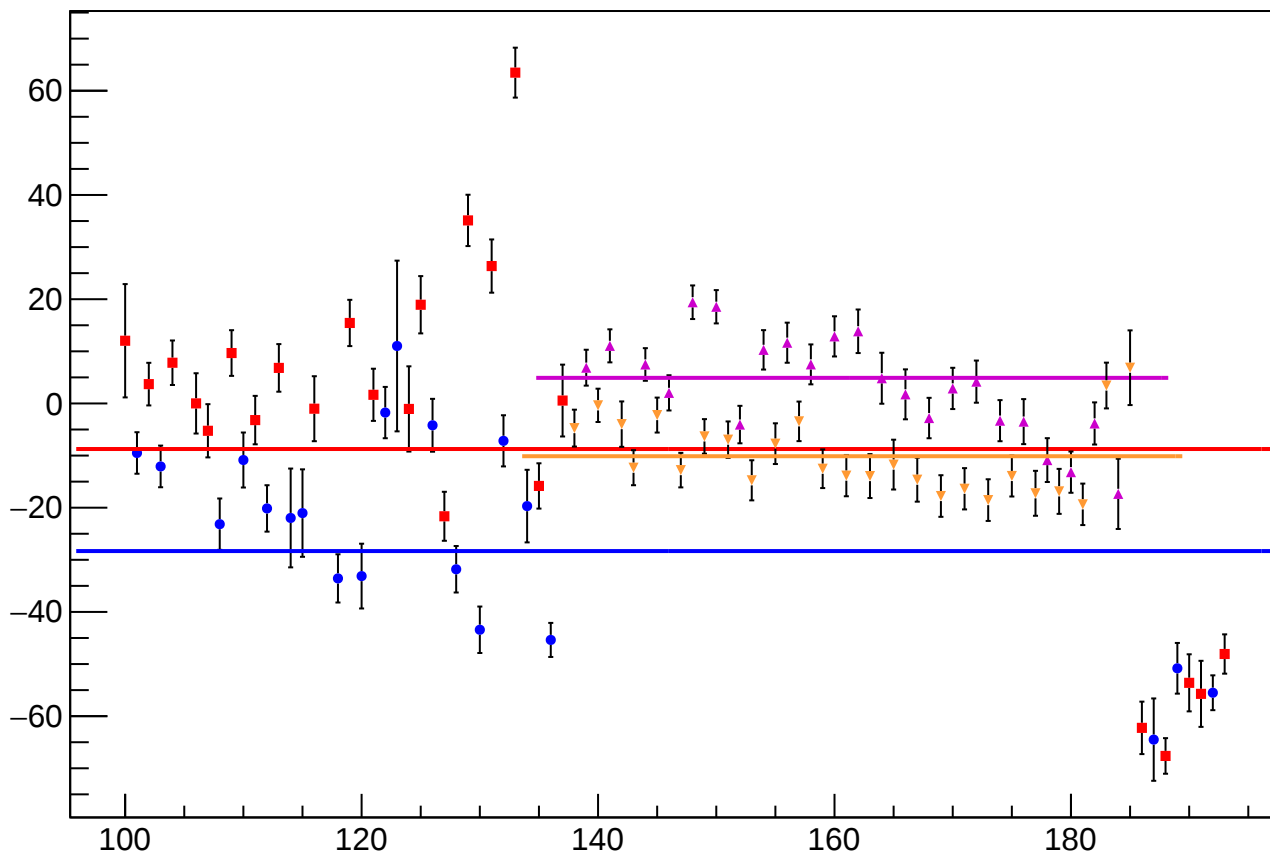
Right: 3190.032+/-0.558 χ^2/NDF : 2618105.3/43

In: 3907.335+/-0.563 χ^2/NDF : 2554213.3/42

Out: 3757.999+/-0.523 χ^2/NDF : 4199999.9/48

All: 3827.173+/-0.383 χ^2/NDF : 6792037.9/91

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -28.322 ± 1.092 $\chi^2/\text{NDF}: 282.9/19$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -8.742 ± 1.001 $\chi^2/\text{NDF}: 1130.5/23$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

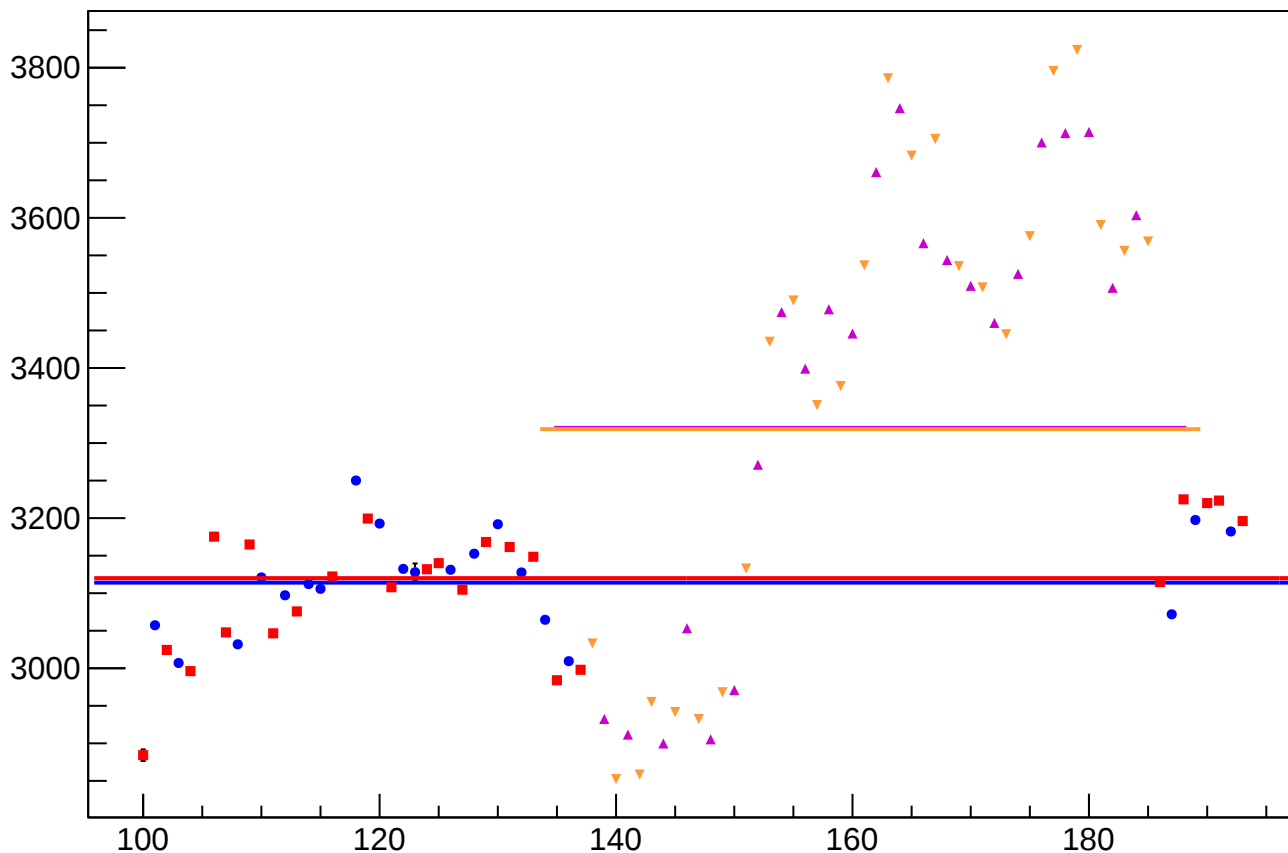
Right: -17.684 ± 0.738 $\chi^2/\text{NDF}: 1588.2/43$

In: -6.648 ± 0.644 $\chi^2/\text{NDF}: 1015.4/42$

Out: -9.606 ± 0.613 $\chi^2/\text{NDF}: 1199.6/48$

All: -8.199 ± 0.444 $\chi^2/\text{NDF}: 2226.1/91$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.103 $\pm$ 0.772 χ^2 /NDF: 8934.4/19

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3120.077 $\pm$ 0.708 χ^2 /NDF: 12787.3/23

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

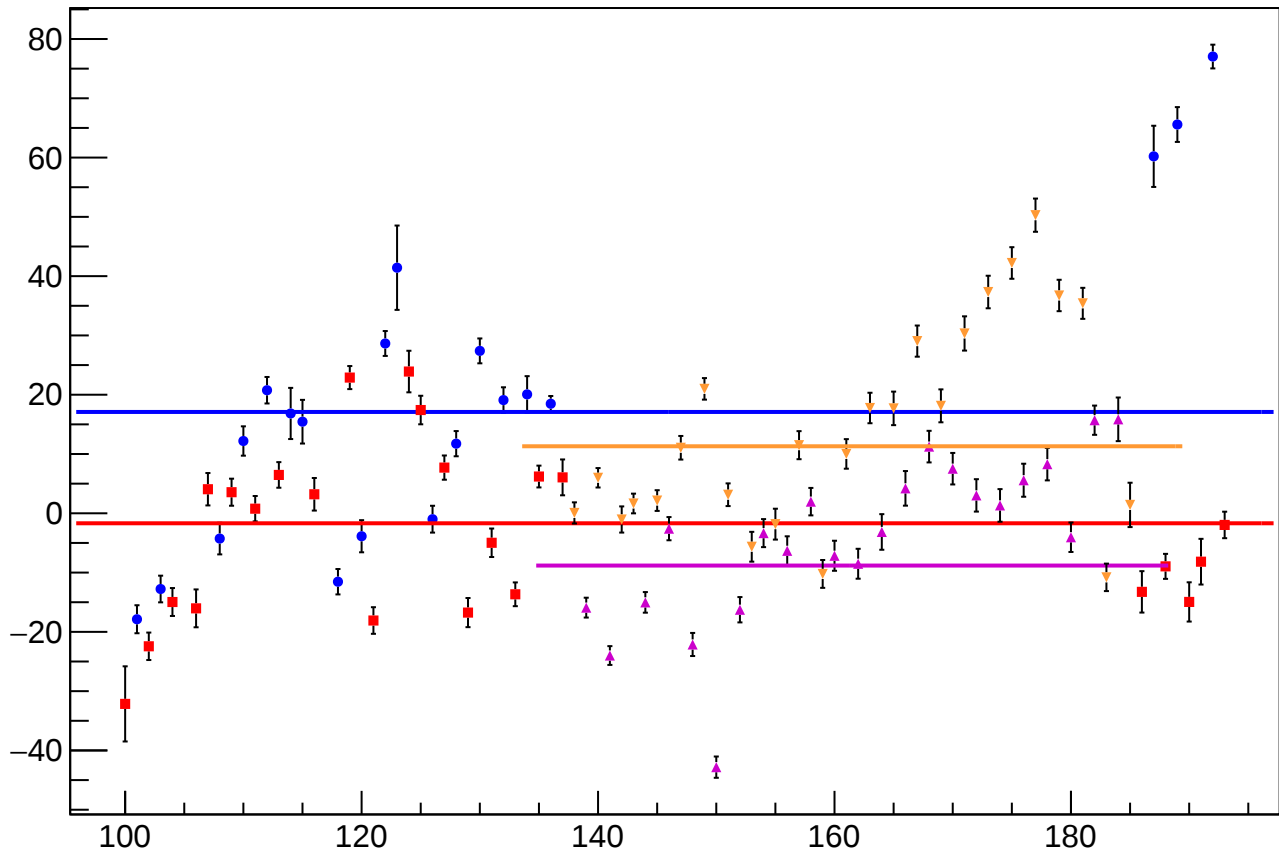
Right: 3117.349 $\pm$ 0.522 χ^2 /NDF: 21754.2/43

In: 3248.498 $\pm$ 0.455 χ^2 /NDF:343056.4/42

Out: 3244.062 $\pm$ 0.433 χ^2 /NDF:399611.4/48

All: 3246.172 $\pm$ 0.314 χ^2 /NDF: 742717.7/91

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.093 ± 0.530 χ^2/NDF : 2081.9/19

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -1.684 ± 0.500 χ^2/NDF : 676.3/23

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

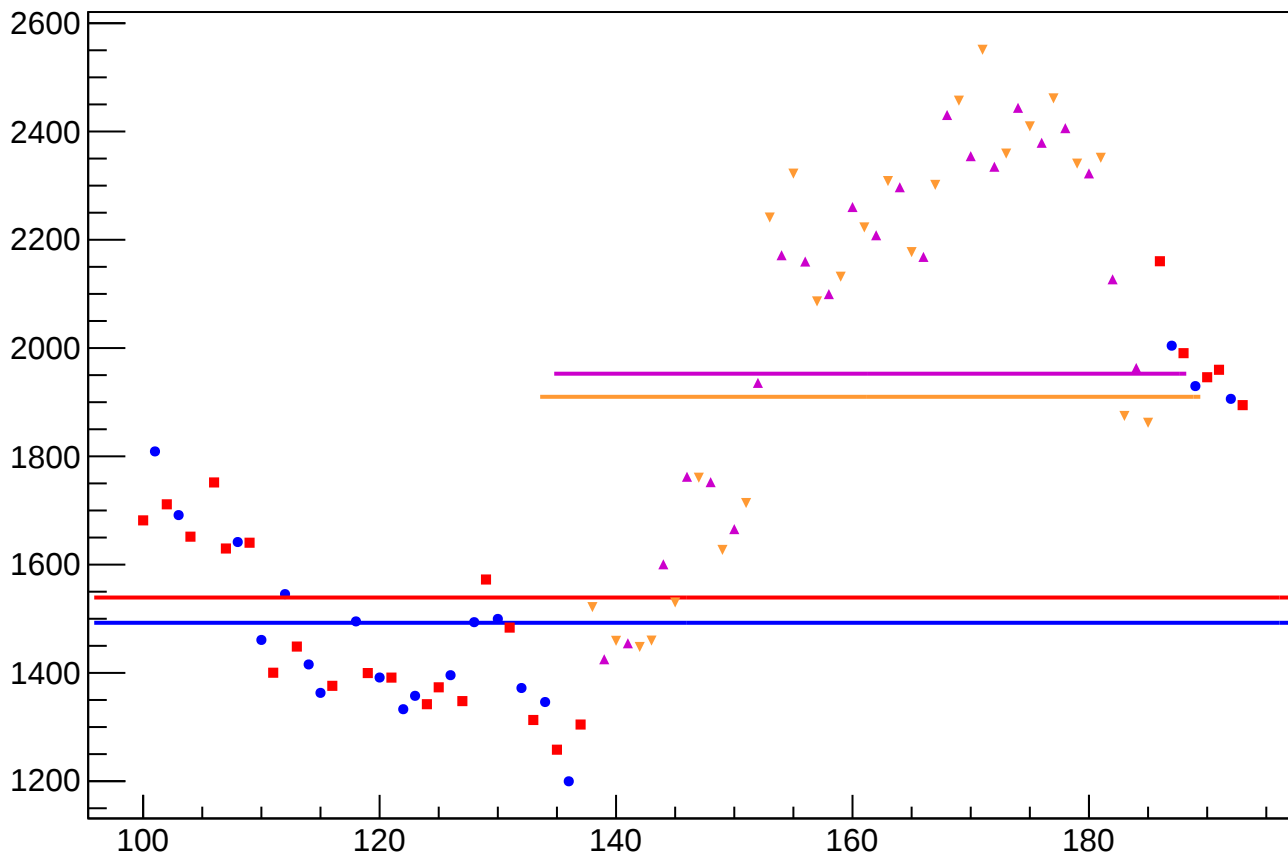
Right: 7.164 ± 0.364 χ^2/NDF : 3422.1/43

In: 2.738 ± 0.354 χ^2/NDF : 4348.6/42

Out: 5.440 ± 0.336 χ^2/NDF : 2190.4/48

All: 4.158 ± 0.244 χ^2/NDF : 6569.6/91

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1492.568 $\pm$ 0.375 χ^2 /NDF: 341412.2/19

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1539.231 $\pm$ 0.354 χ^2 /NDF: 448126.5/23

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

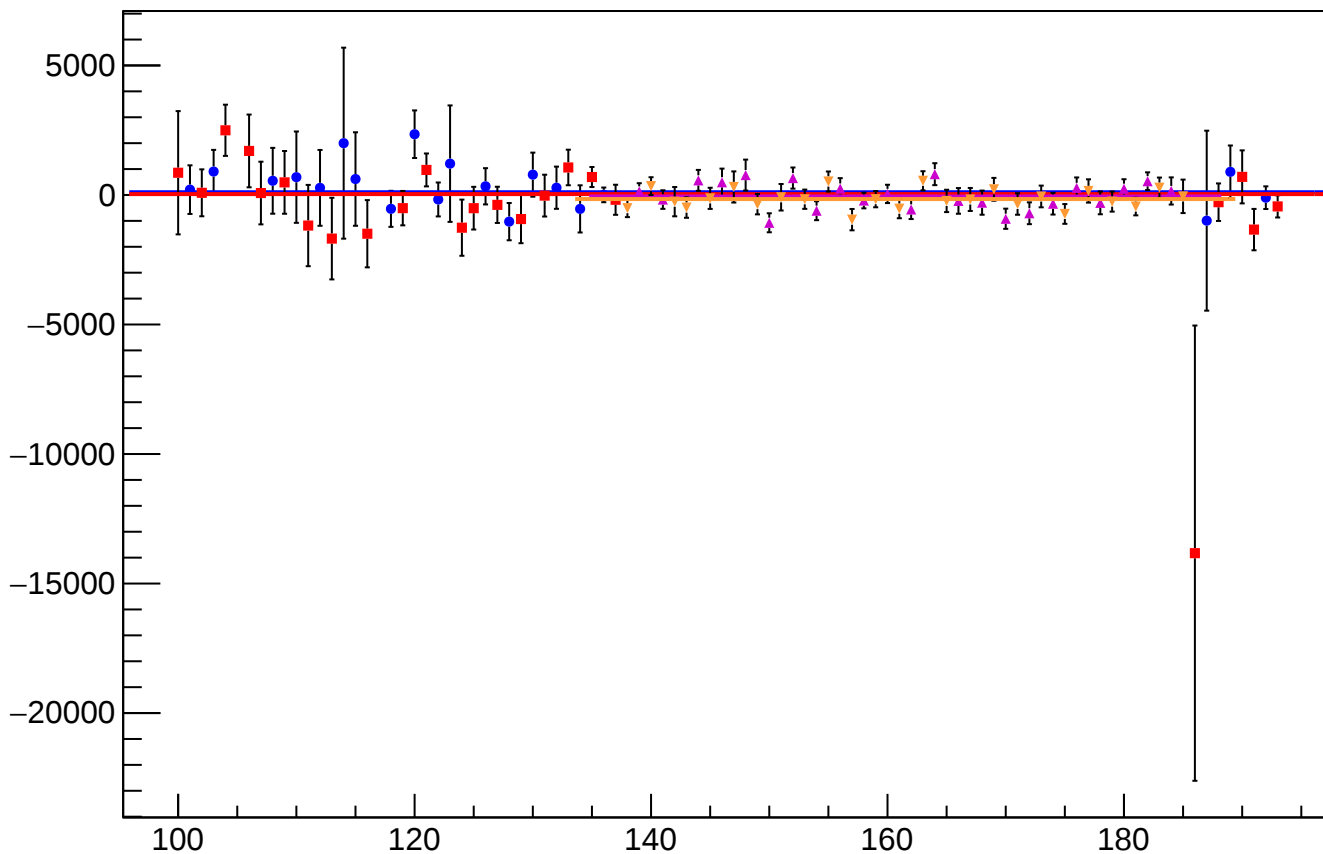
Right: 1517.242 $\pm$ 0.257 χ^2 /NDF: 797739.6/43

In: 1747.485 $\pm$ 0.250 χ^2 /NDF:2242096.9/42

Out: 1742.577 $\pm$ 0.238 χ^2 /NDF:2450135.5/48

All: 1744.905 $\pm$ 0.172 χ^2 /NDF: 4692434.7/91

asym_sam1_mean vs Slug, Sign Corrected



Right In: 105.464+/-164.531 χ^2/NDF : 13.6/19

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 33.913+/-159.740 χ^2/NDF : 29.7/23

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

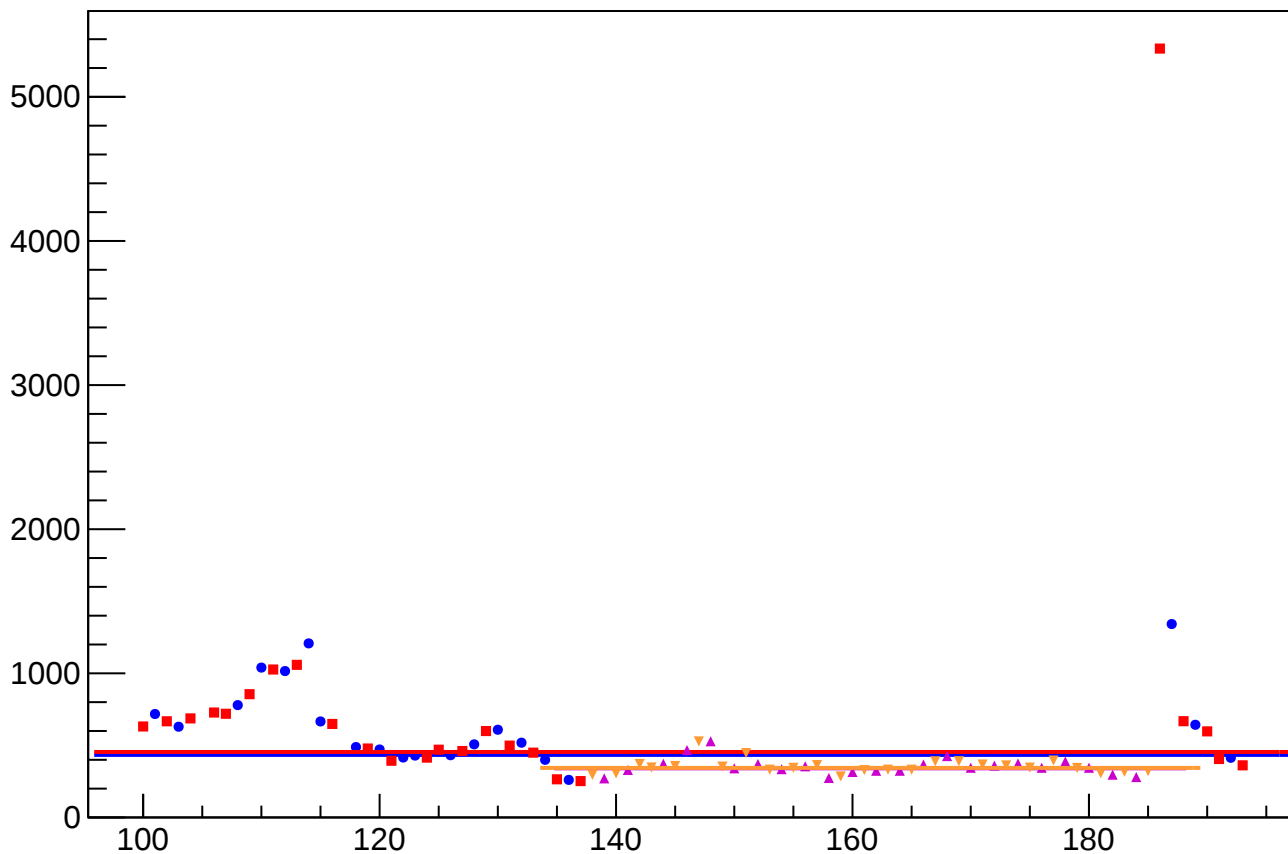
Right: 68.632+/-114.610 χ^2/NDF : 43.4/43

In: -25.850+/-73.808 χ^2/NDF :52.9/42

Out: -118.301+/-72.098 χ^2/NDF :52.9/48

All: -73.159+/-51.575 χ^2/NDF : 106.6/91

asym_sam1_rms vs Slug, Sign Corrected



Right In: 434.055+/-0.116 χ^2/NDF : 2234223.9/19

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 454.393+/-0.113 χ^2/NDF : 2963778.1/23

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

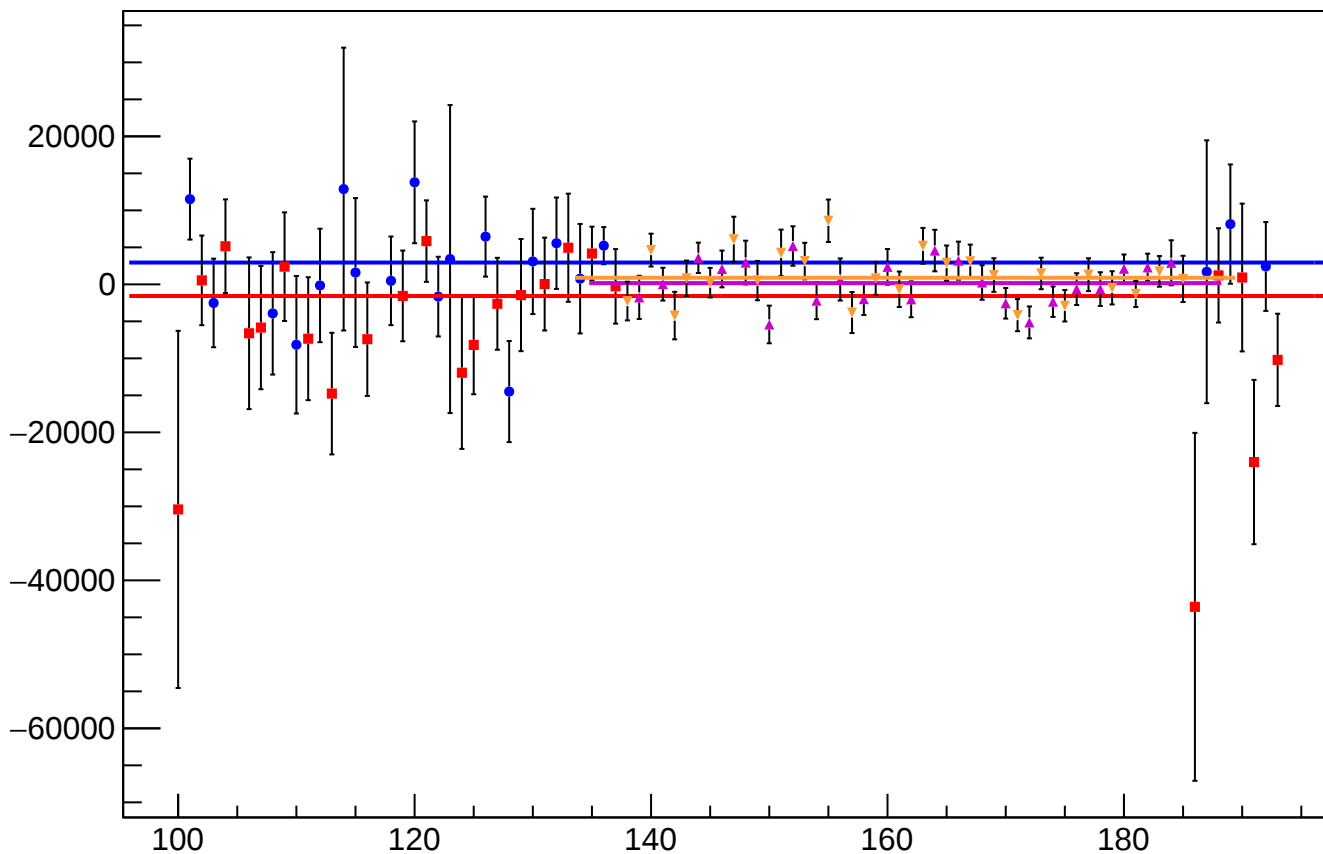
Right: 444.524+/-0.081 χ^2/NDF : 5213732.3/43

In: 359.628+/-0.052 χ^2/NDF : 3471270.3/42

Out: 366.335+/-0.051 χ^2/NDF : 4266468.6/48

All: 363.060+/-0.036 χ^2/NDF : 7746189.6/91

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2948.689+/-1384.894 χ^2/NDF : 17.0/19

Left Out: 890.395+/-473.262 χ^2/NDF : 38.0/24

Right Out: -1575.377+/-1403.908 χ^2/NDF : 23.8/23

Left In: 172.391+/-488.067 χ^2/NDF : 33.2/22

Left: 542.448+/-339.760 χ^2/NDF : 72.3/47

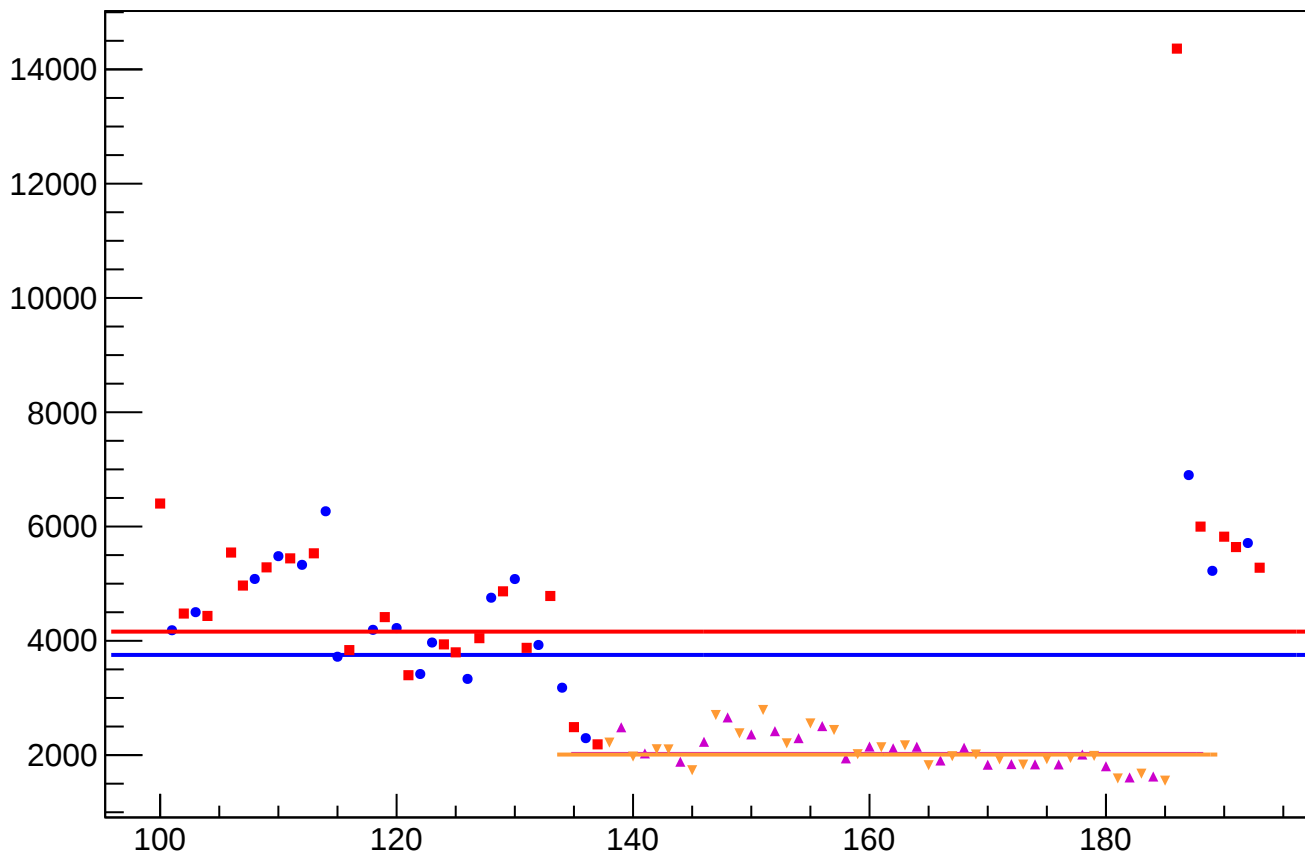
Right: 717.500+/-985.922 χ^2/NDF : 46.0/43

In: 479.116+/-460.318 χ^2/NDF : 53.7/42

Out: 638.781+/-448.466 χ^2/NDF : 64.6/48

All: 561.030+/-321.222 χ^2/NDF : 118.3/91

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3753.155+/-0.979 χ^2/NDF : 1461869.0/19

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4160.940+/-0.993 χ^2/NDF : 1749944.2/23

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

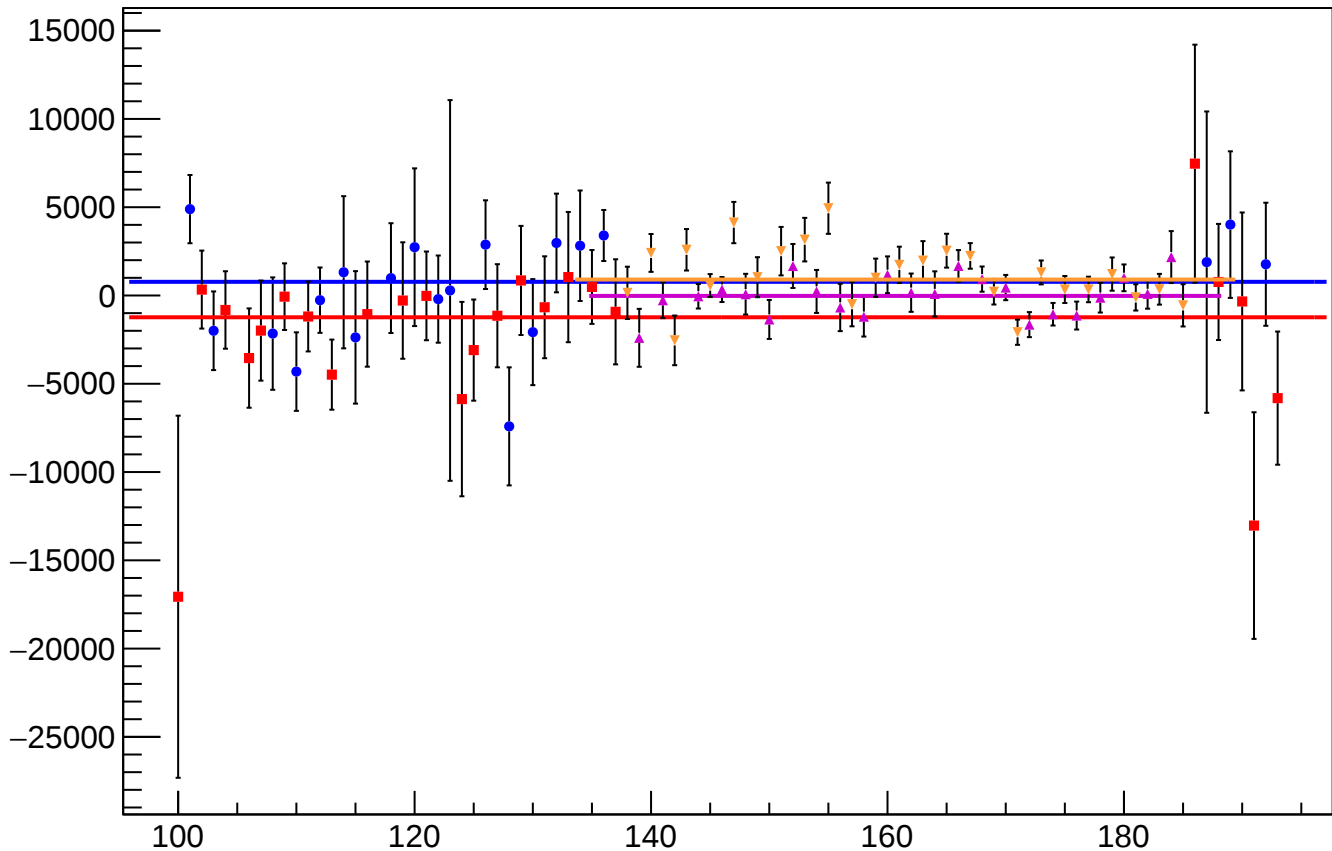
Right: 3954.267+/-0.697 χ^2/NDF : 3297333.4/43

In: 2211.803+/-0.325 χ^2/NDF : 4820475.7/42

Out: 2229.156+/-0.317 χ^2/NDF : 6677023.1/48

All: 2220.706+/-0.227 χ^2/NDF : 11498957.0/95

asym_sam3_mean vs Slug, Sign Corrected



Right In: 773.939+/-604.720 χ^2/NDF : 26.2/19

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1234.169+/-578.668 χ^2/NDF : 16.7/23

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

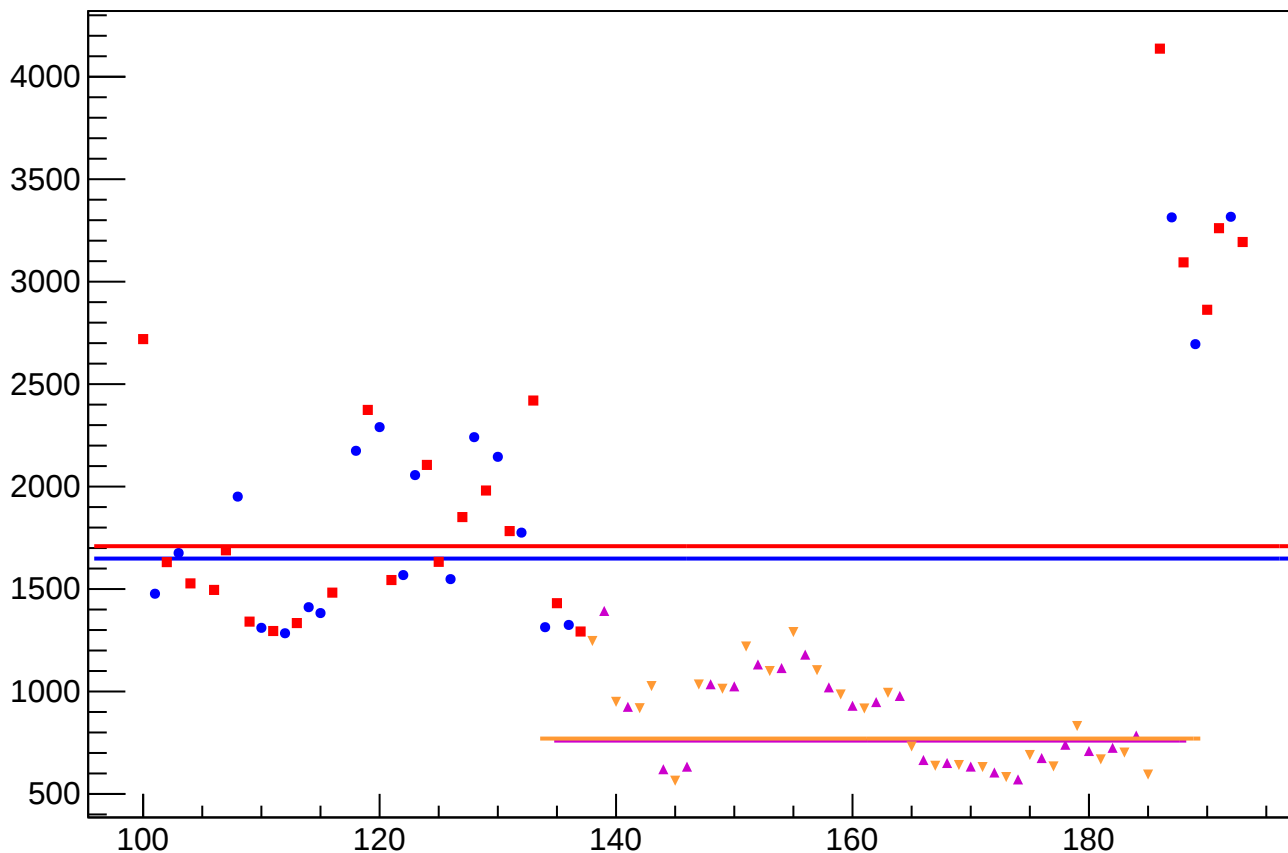
Right: -274.300+/-418.087 χ^2/NDF : 48.6/43

In: 46.847+/-179.643 χ^2/NDF : 56.0/42

Out: 702.342+/-176.948 χ^2/NDF : 92.5/48

All: 379.549+/-126.063 χ^2/NDF : 155.3/91

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1648.699 ± 0.428 $\chi^2/\text{NDF}: 1186745.7/19$

Left Out: 770.320 ± 0.131 $\chi^2/\text{NDF}: 2287655.1/24$

Right Out: 1709.127 ± 0.409 $\chi^2/\text{NDF}: 1711859.0/23$

Left In: 760.352 ± 0.133 $\chi^2/\text{NDF}: 1986749.8/22$

Left: 765.397 ± 0.093 $\chi^2/\text{NDF}: 4277246.5/47$

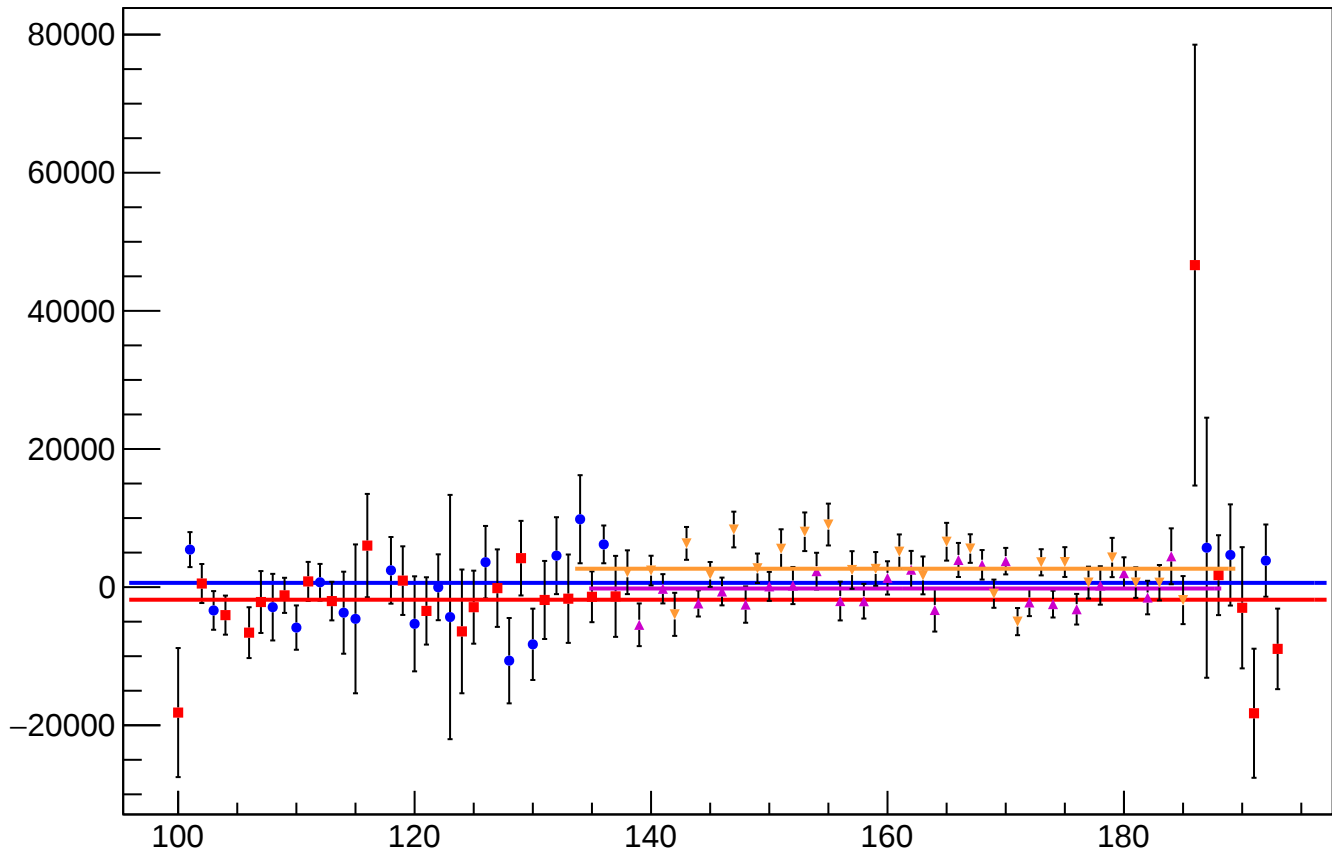
Right: 1680.243 ± 0.296 $\chi^2/\text{NDF}: 2909029.7/43$

In: 838.748 ± 0.127 $\chi^2/\text{NDF}: 7108661.9/42$

Out: 858.103 ± 0.125 $\chi^2/\text{NDF}: 8771391.7/48$

All: 848.572 ± 0.089 $\chi^2/\text{NDF}: 15891836.2/92$

asym_sam4_mean vs Slug, Sign Corrected



Right In: 617.743 ± 970.399 χ^2/NDF : 26.1/19

Left Out: 2665.587 ± 479.773 χ^2/NDF : 49.2/24

Right Out: -1822.955 ± 893.892 χ^2/NDF : 17.5/23

Left In: -199.371 ± 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 ± 343.520 χ^2/NDF : 92.4/47

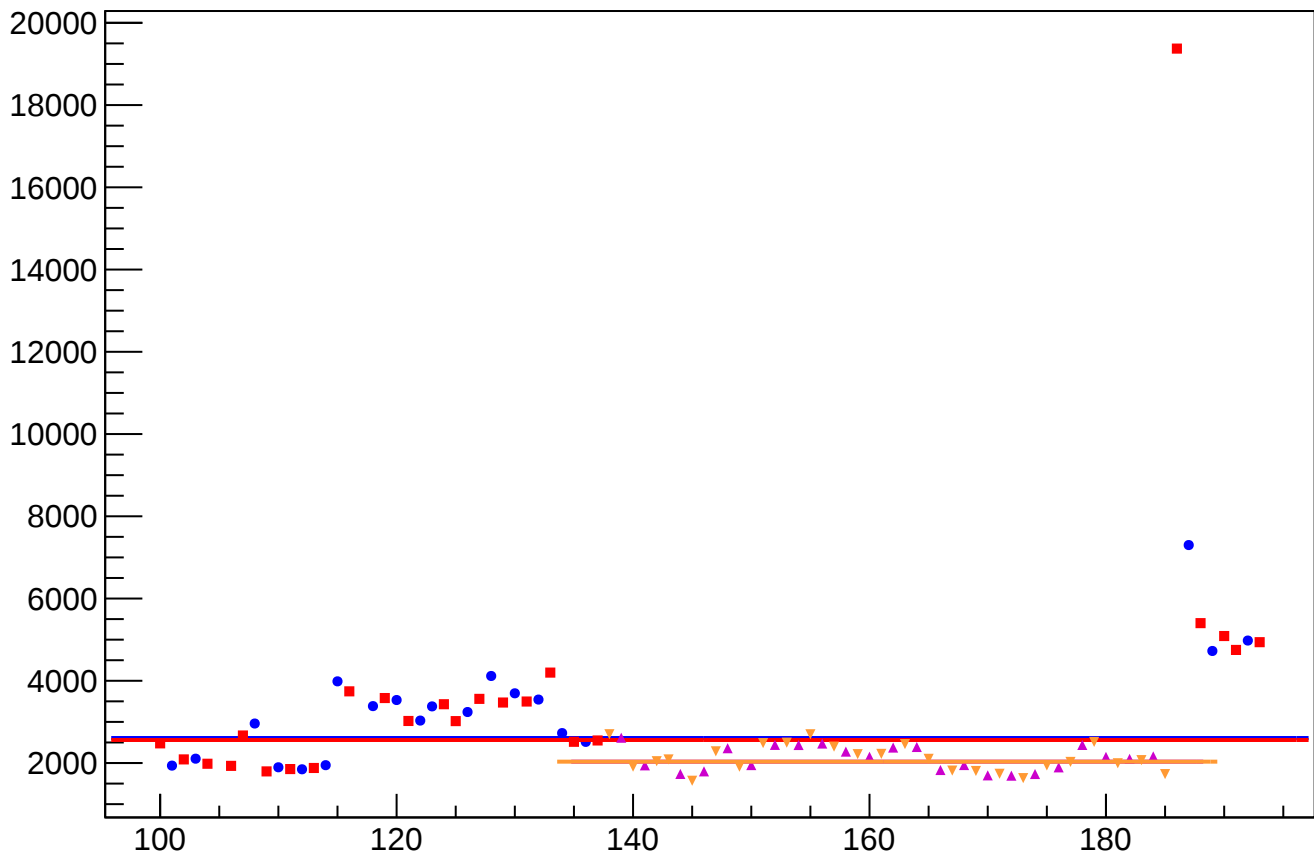
Right: -702.599 ± 657.463 χ^2/NDF : 47.0/43

In: -32.234 ± 438.879 χ^2/NDF : 52.5/42

Out: 1661.742 ± 422.733 χ^2/NDF : 86.3/48

All: 846.488 ± 304.465 χ^2/NDF : 146.4/91

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2608.053+/-0.686 χ^2/NDF : 1641024.8/19

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2560.372+/-0.632 χ^2/NDF : 2762623.8/23

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

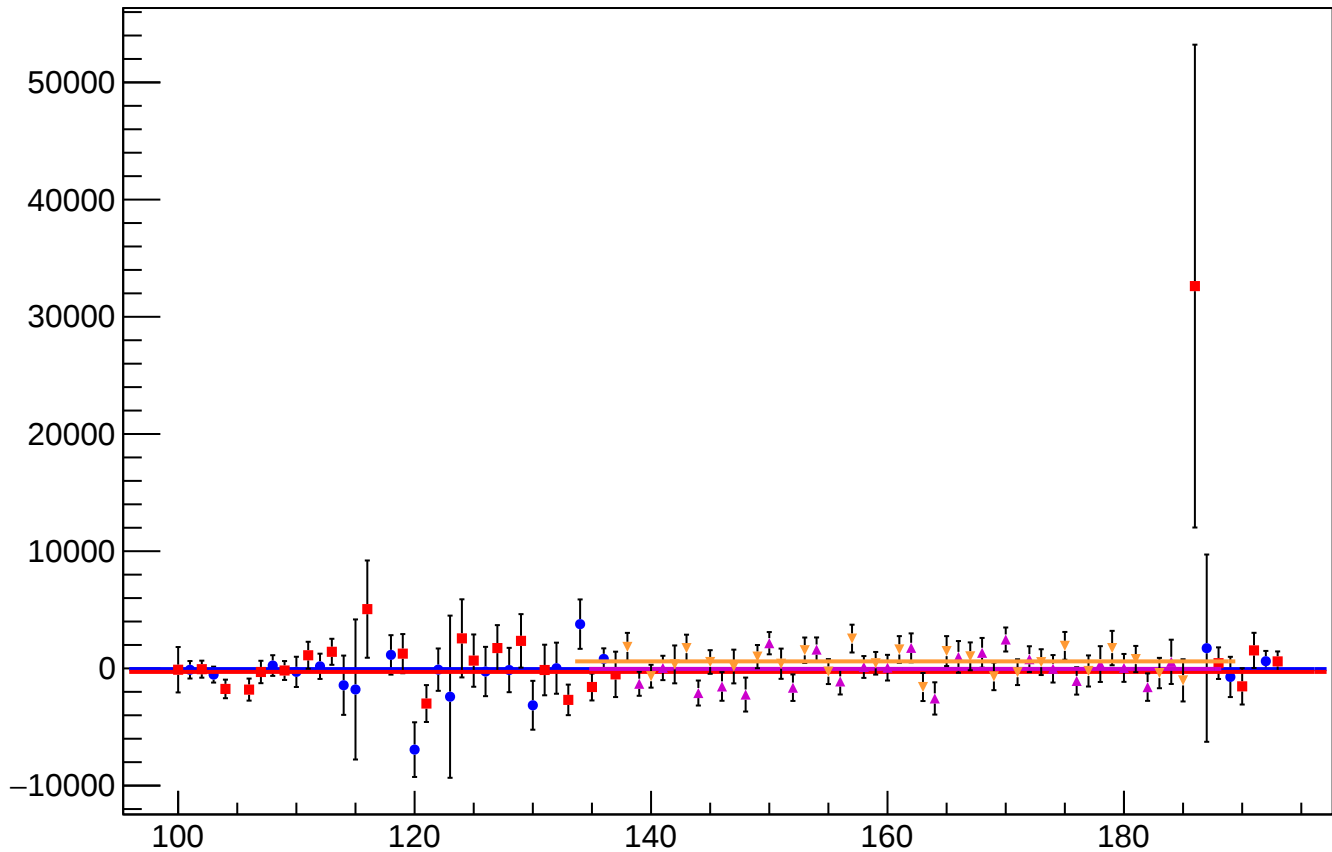
Right: 2582.259+/-0.465 χ^2/NDF : 4406260.8/43

In: 2150.350+/-0.310 χ^2/NDF : 2853137.4/42

Out: 2151.206+/-0.299 χ^2/NDF : 4126442.7/48

All: 2150.794+/-0.215 χ^2/NDF : 6979584.1/91

asym_sam5_mean vs Slug, Sign Corrected



Right In: -57.823 ± 290.918 χ^2/NDF : 17.6/19

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -298.703 ± 255.929 χ^2/NDF : 29.5/23

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

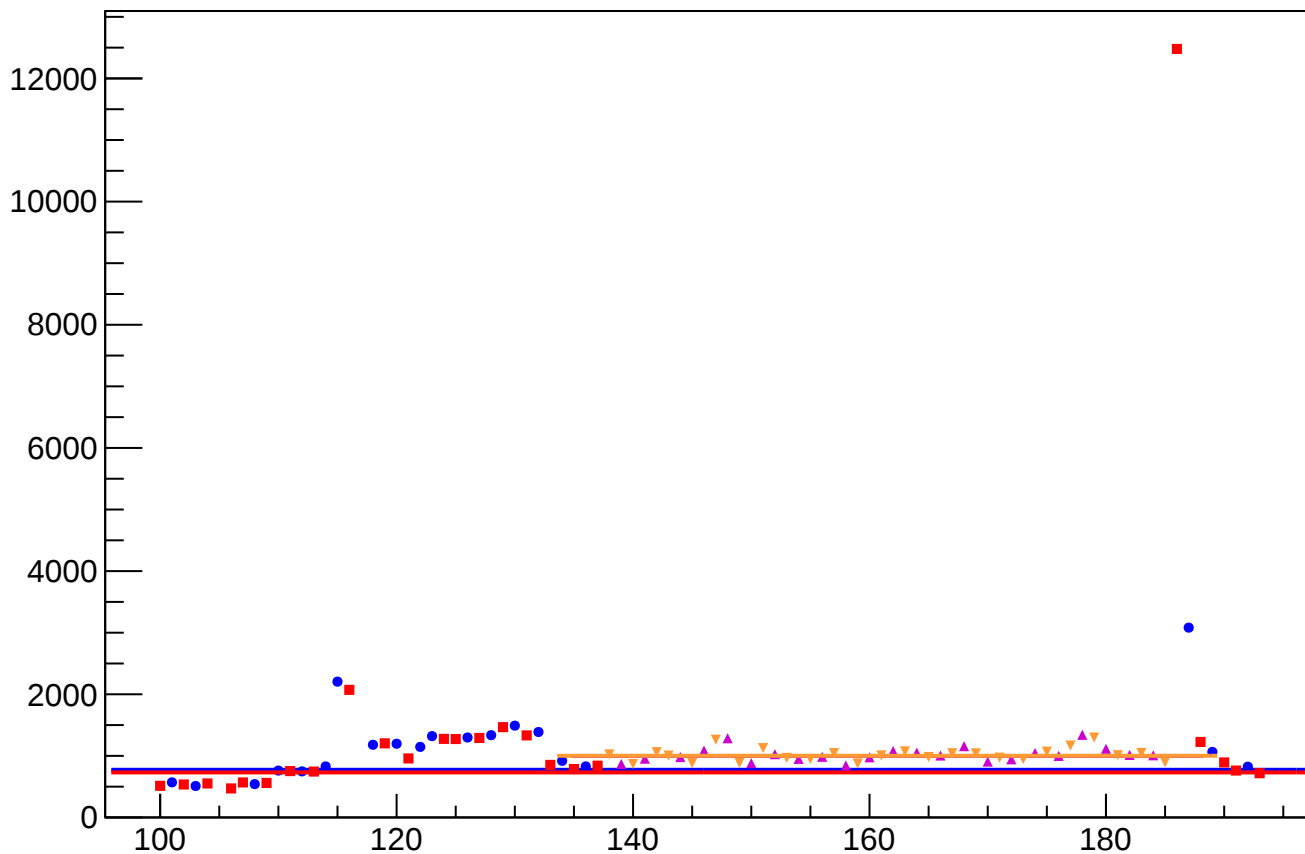
Right: -193.612 ± 192.155 χ^2/NDF : 47.5/43

In: -48.172 ± 185.502 χ^2/NDF : 54.0/42

Out: 188.957 ± 173.084 χ^2/NDF : 54.7/48

All: 78.594 ± 126.551 χ^2/NDF : 109.6/91

asym_sam5_rms vs Slug, Sign Corrected



Right In: 773.888 $\pm$ 0.206 χ^2 /NDF: 1927384.1/19

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 731.186 $\pm$ 0.181 χ^2 /NDF: 2653302.1/23

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

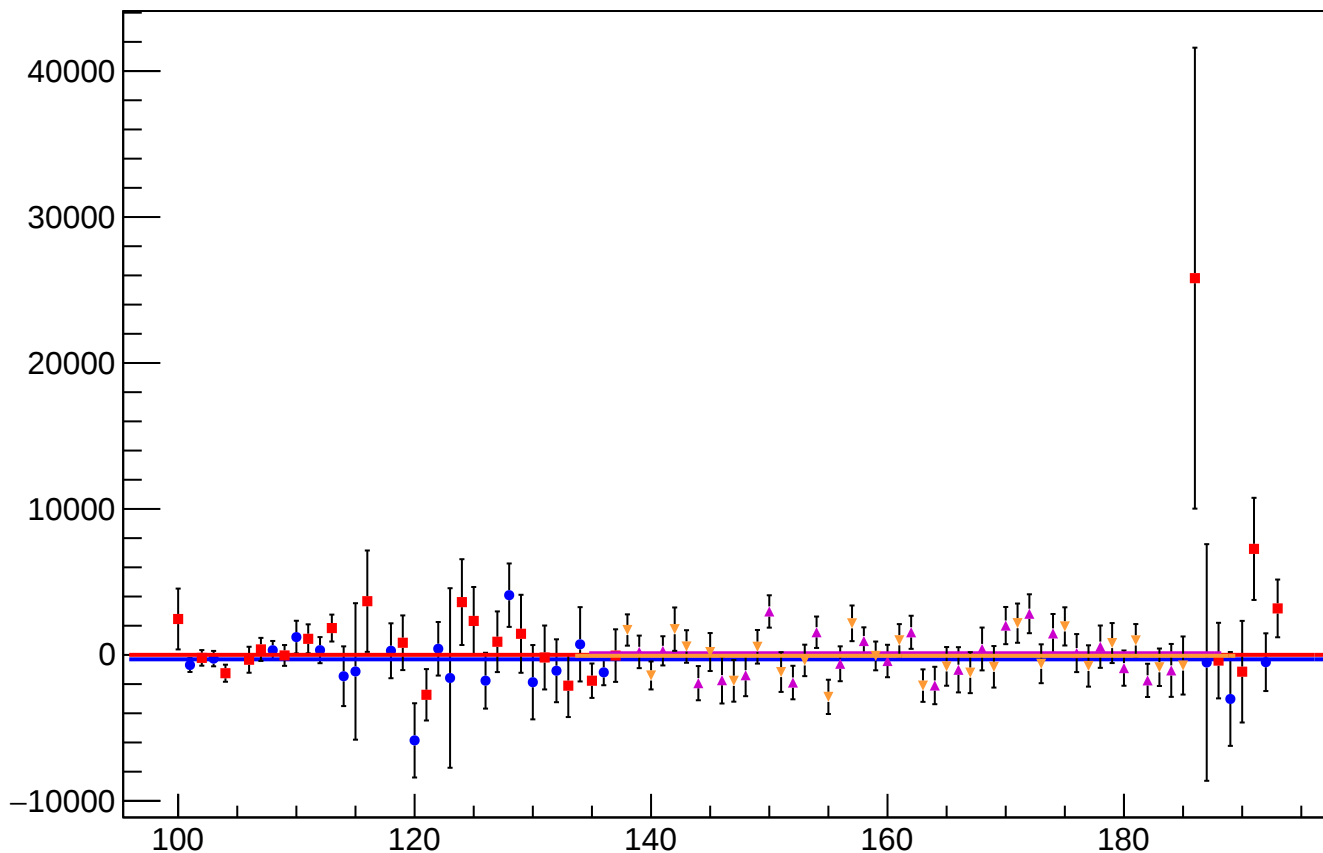
Right: 749.816 $\pm$ 0.136 χ^2 /NDF: 4604978.2/43

In: 906.909 $\pm$ 0.131 χ^2 /NDF: 3036680.9/42

Out: 877.849 $\pm$ 0.122 χ^2 /NDF: 4234015.6/48

All: 891.374 $\pm$ 0.089 χ^2 /NDF: 7296934.6/91

asym_sam6_mean vs Slug, Sign Corrected



Right In: -303.038+/-247.835 χ^2/NDF : 16.5/19

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 4.597+/-242.042 χ^2/NDF : 31.4/23

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

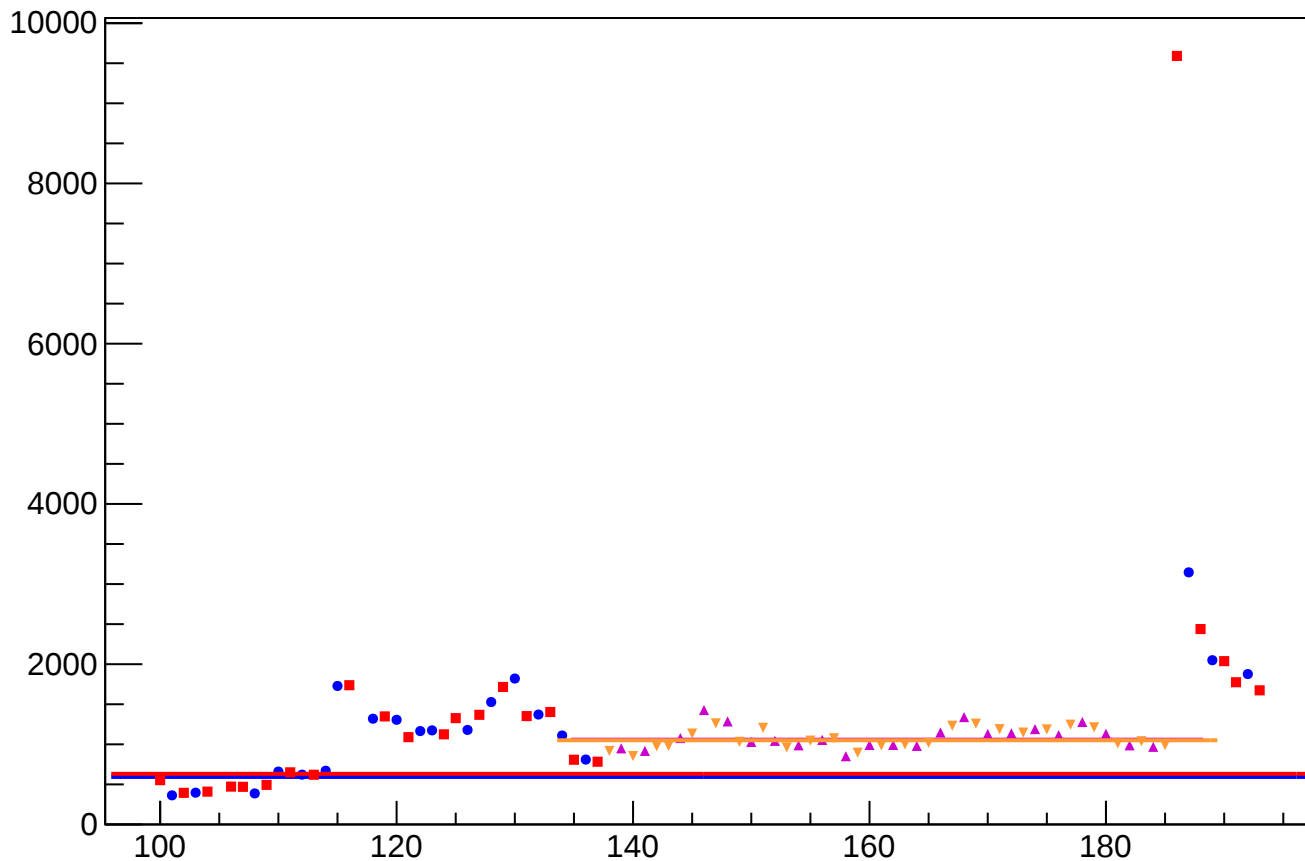
Right: -145.583+/-173.161 χ^2/NDF : 48.7/43

In: -101.572+/-177.863 χ^2/NDF : 52.7/42

Out: -27.027+/-172.705 χ^2/NDF : 62.4/48

All: -63.203+/-123.904 χ^2/NDF : 115.2/91

asym_sam6_rms vs Slug, Sign Corrected



Right In: 593.253+/-0.175 χ^2/NDF : 4695648.3/19

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 631.715+/-0.171 χ^2/NDF : 5601050.0/23

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

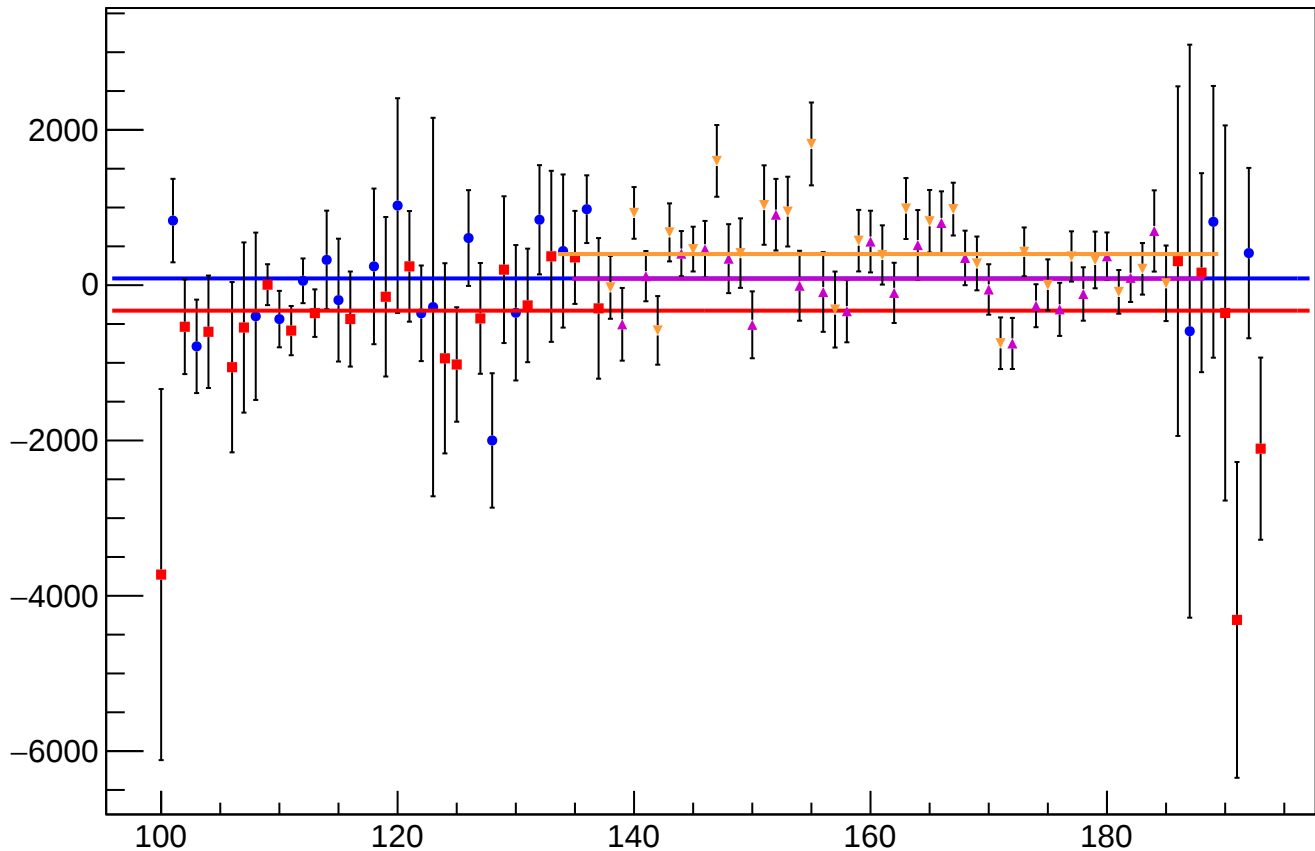
Right: 612.939+/-0.122 χ^2/NDF : 10321353.0/43

In: 818.680+/-0.126 χ^2/NDF : 8636303.2/42

Out: 837.357+/-0.122 χ^2/NDF : 9025266.2/48

All: 828.293+/-0.088 χ^2/NDF : 17672920.4/92

asym_sam7_mean vs Slug, Sign Corrected



Right In: 86.851+/-141.493 χ^2/NDF : 20.2/19

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -328.152+/-127.736 χ^2/NDF : 15.3/23

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

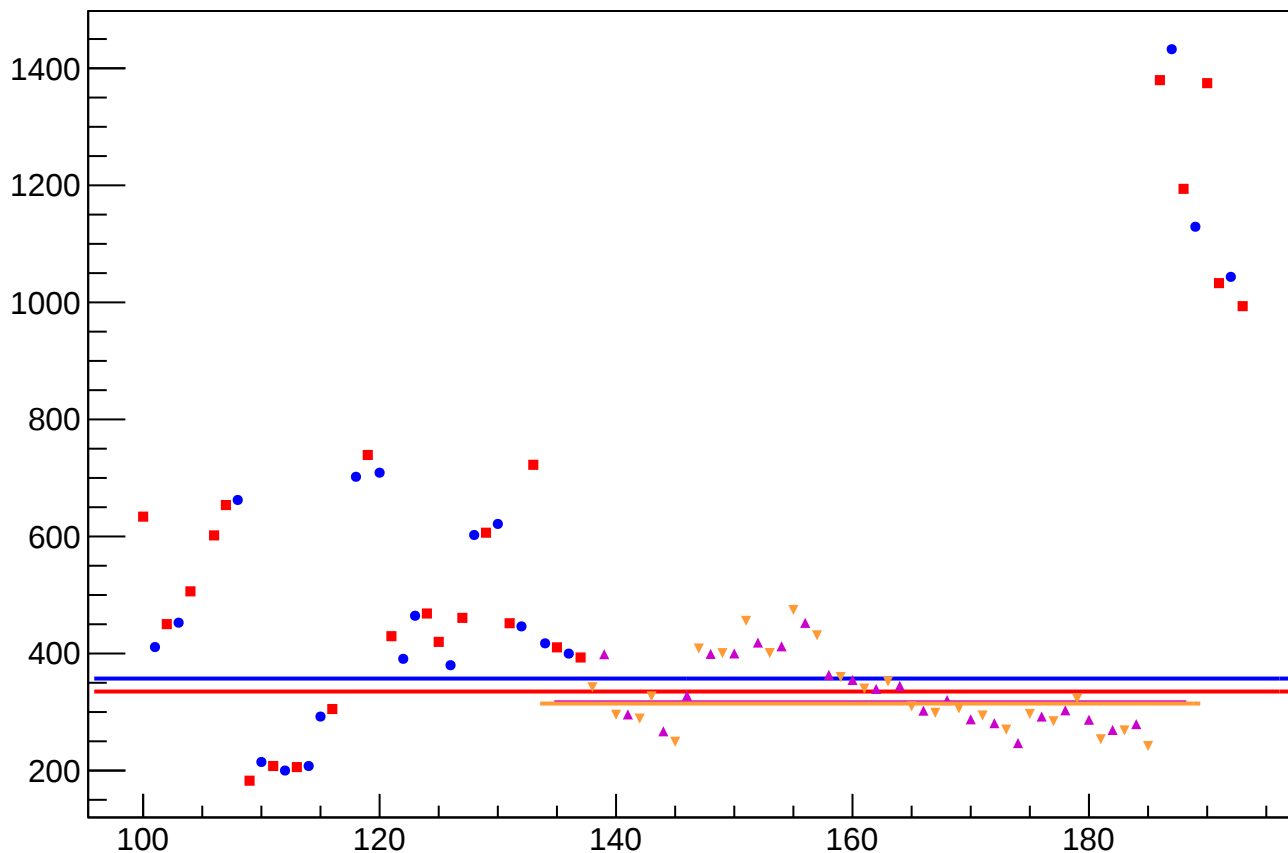
Right: -141.801+/-94.814 χ^2/NDF : 40.2/43

In: 83.793+/-67.569 χ^2/NDF : 49.2/42

Out: 215.744+/-64.384 χ^2/NDF : 91.7/48

All: 152.951+/-46.612 χ^2/NDF : 142.8/91

asym_sam7_rms vs Slug, Sign Corrected



Right In: 357.217 $\pm$ 0.100 χ^2 /NDF: 3383674.0/19

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 335.037 $\pm$ 0.090 χ^2 /NDF: 5380198.2/23

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

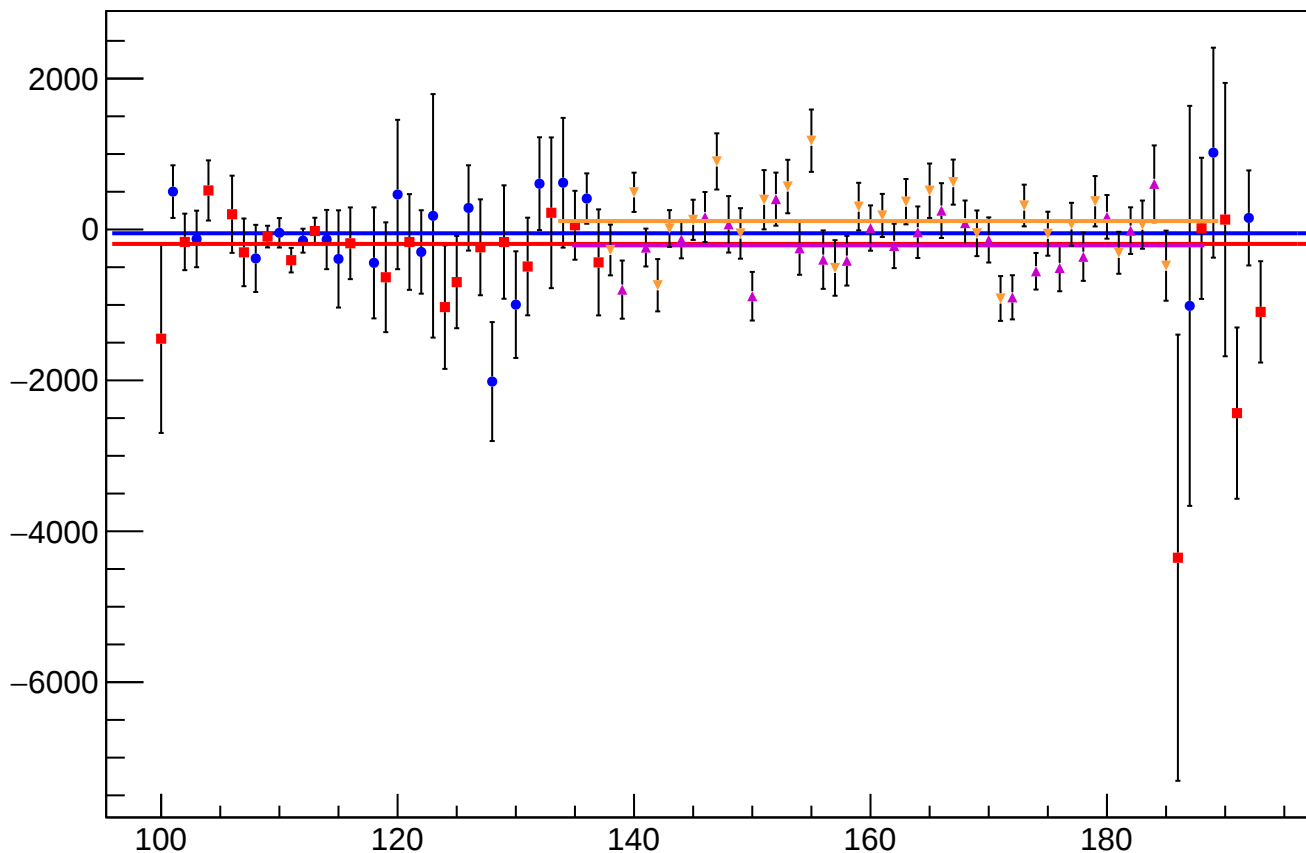
Right: 344.997 $\pm$ 0.067 χ^2 /NDF: 8790949.3/43

In: 325.899 $\pm$ 0.048 χ^2 /NDF: 4431478.6/42

Out: 319.746 $\pm$ 0.046 χ^2 /NDF: 6531064.6/48

All: 322.674 $\pm$ 0.033 χ^2 /NDF: 10971234.3/92

asym_sam8_mean vs Slug, Sign Corrected



Right In: -50.220 ± 89.531 χ^2/NDF : 17.4/19

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -191.308 ± 75.950 χ^2/NDF : 18.6/23

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

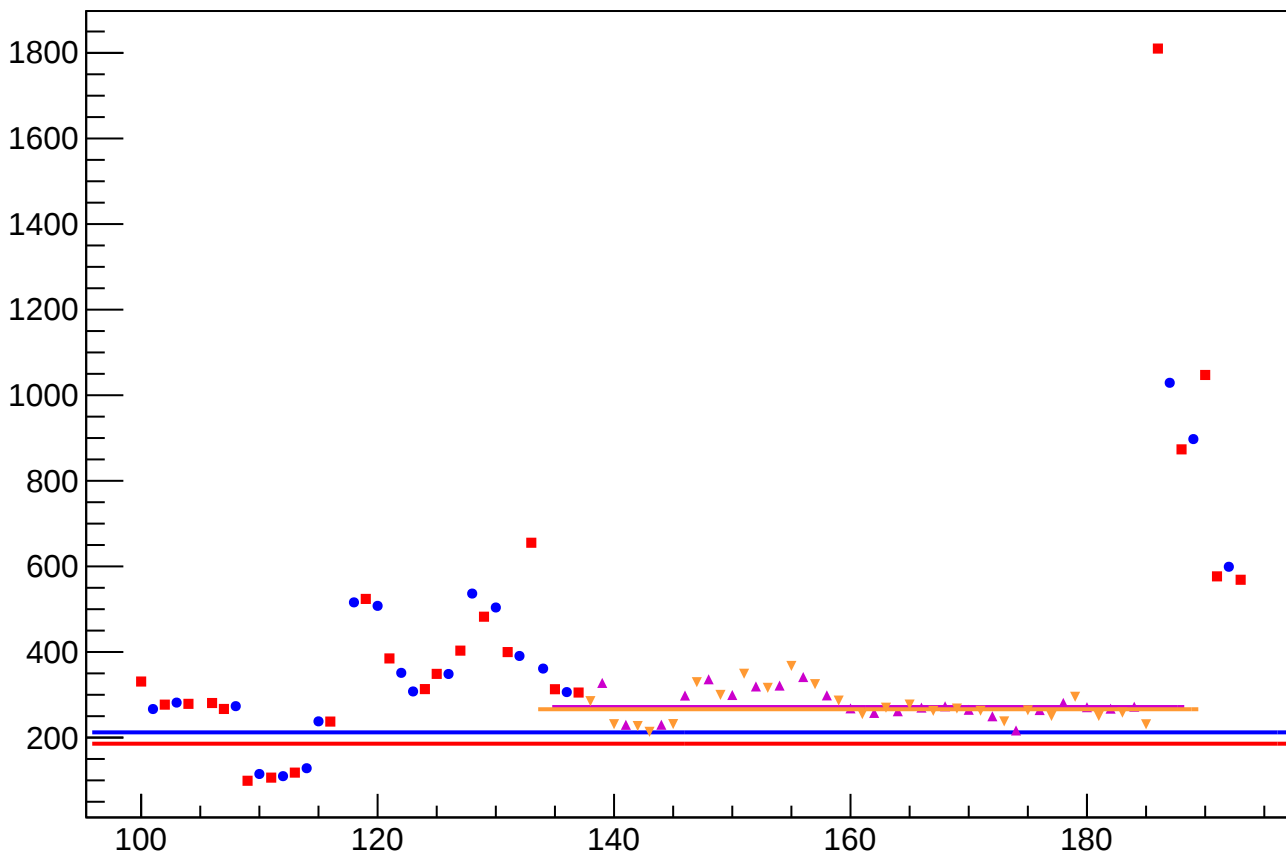
Right: -132.266 ± 57.917 χ^2/NDF : 37.5/43

In: -154.580 ± 52.869 χ^2/NDF : 48.7/42

Out: -10.655 ± 48.326 χ^2/NDF : 77.3/48

All: -76.169 ± 35.670 χ^2/NDF : 130.0/91

asym_sam8_rms vs Slug, Sign Corrected



Right In: 212.178 $\pm$ 0.063 χ^2/NDF : 4846654.5/19

Left Out: 266.207 $\pm$ 0.044 χ^2/NDF : 649629.9/24

Right Out: 185.689 $\pm$ 0.054 χ^2/NDF : 7176284.2/23

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

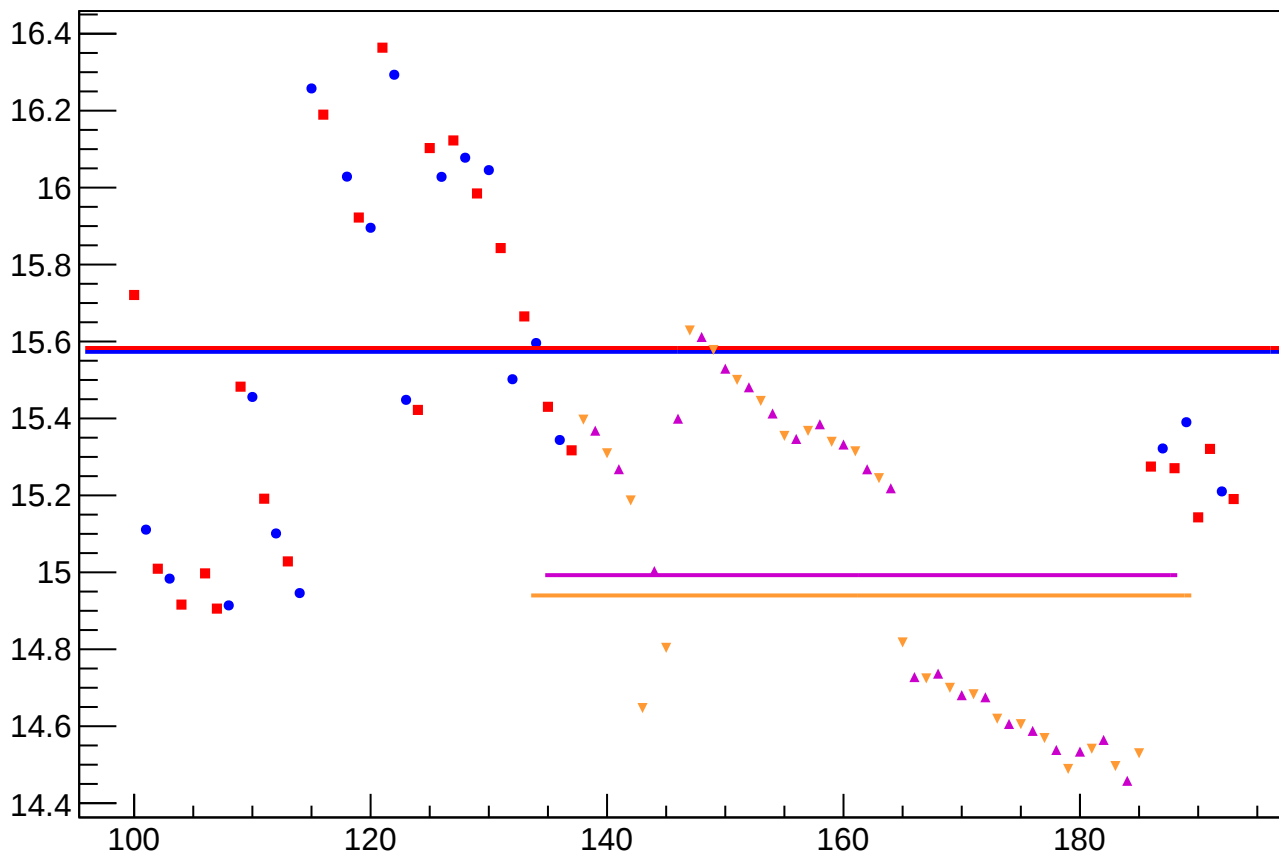
Right: 196.774 $\pm$ 0.041 χ^2/NDF : 12124744.1/43

In: 250.759 $\pm$ 0.037 χ^2/NDF : 5938757.8/42

Out: 233.608 $\pm$ 0.034 χ^2/NDF : 9163665.3/48

All: 241.415 $\pm$ 0.025 χ^2/NDF : 15217087.3/92

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.573+/-0.000 χ^2/NDF : 6500462990.6/19

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.583+/-0.000 χ^2/NDF : 6799033198.7/23

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

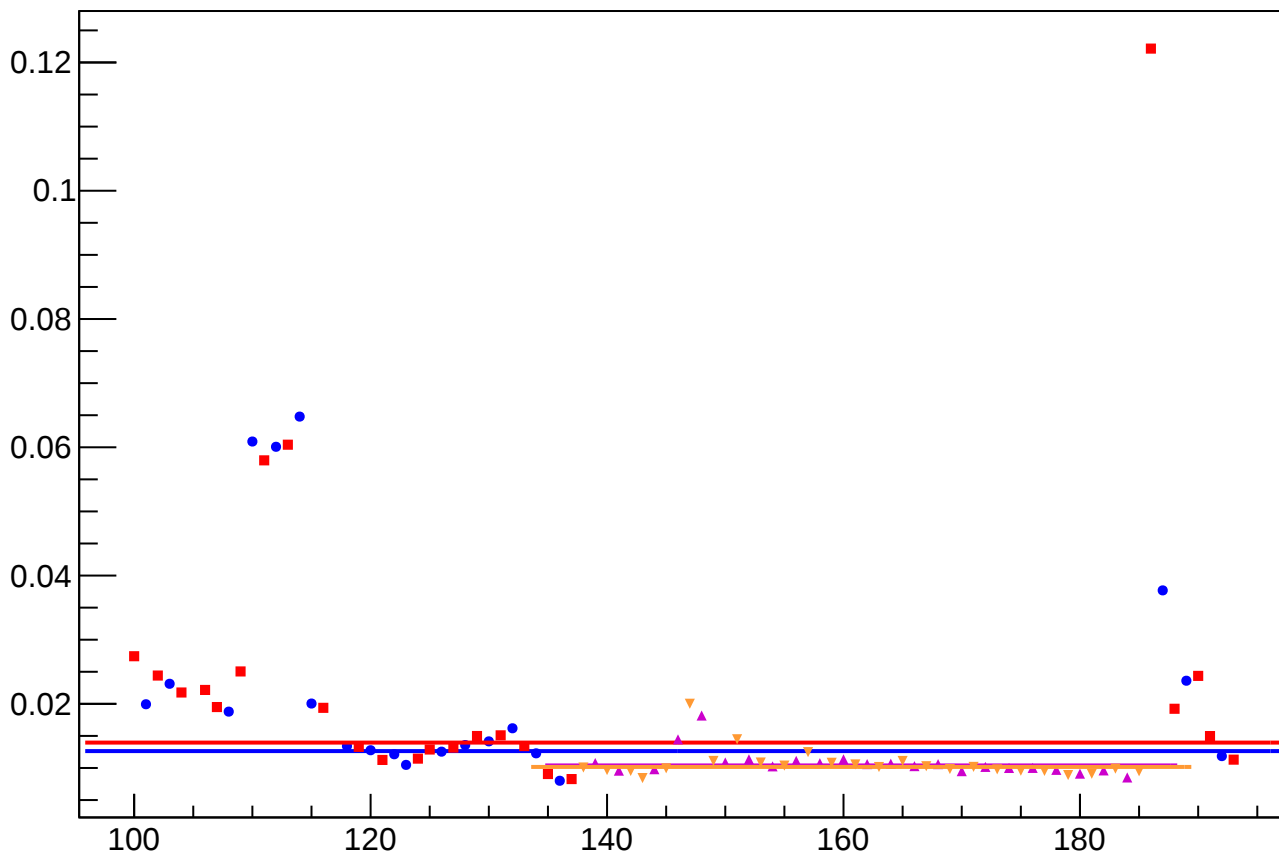
Right: 15.578+/-0.000 χ^2/NDF : 13301437390.7/43

In: 15.114+/-0.000 χ^2/NDF : 39259085234.2/42

Out: 15.060+/-0.000 χ^2/NDF : 43897563953.6/48

All: 15.086+/-0.000 χ^2/NDF : 83451185066.1

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2456197.5/19

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2973179.5/23

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

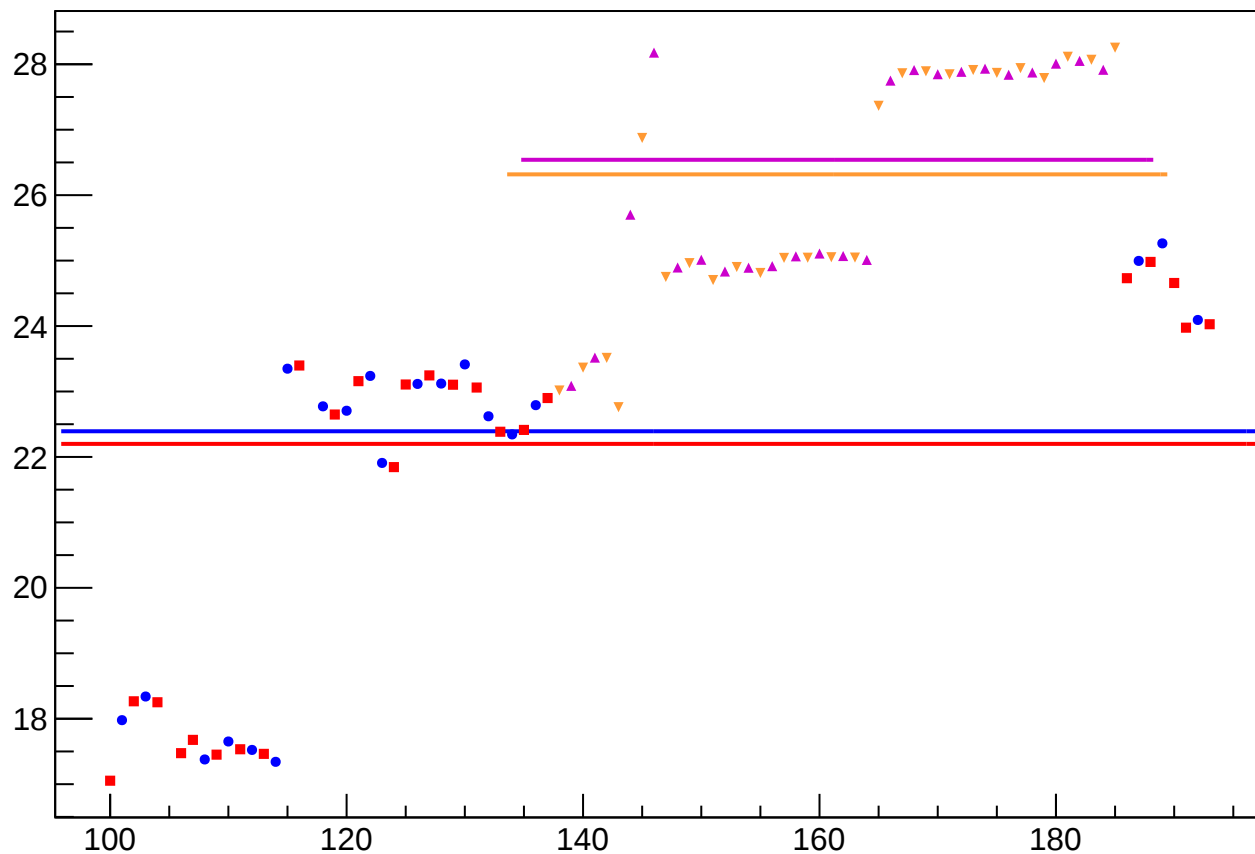
Right: 0.013+/-0.000 χ^2/NDF : 5498409.6/43

In: 0.011+/-0.000 χ^2/NDF : 3319012.3/42

Out: 0.011+/-0.000 χ^2/NDF : 4588840.9/48

All: 0.011+/-0.000 χ^2/NDF : 7907858.7/91

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.392+/-0.000 χ^2/NDF : 1011621798.9/19

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 22.199+/-0.000 χ^2/NDF : 1217368215.0/23

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

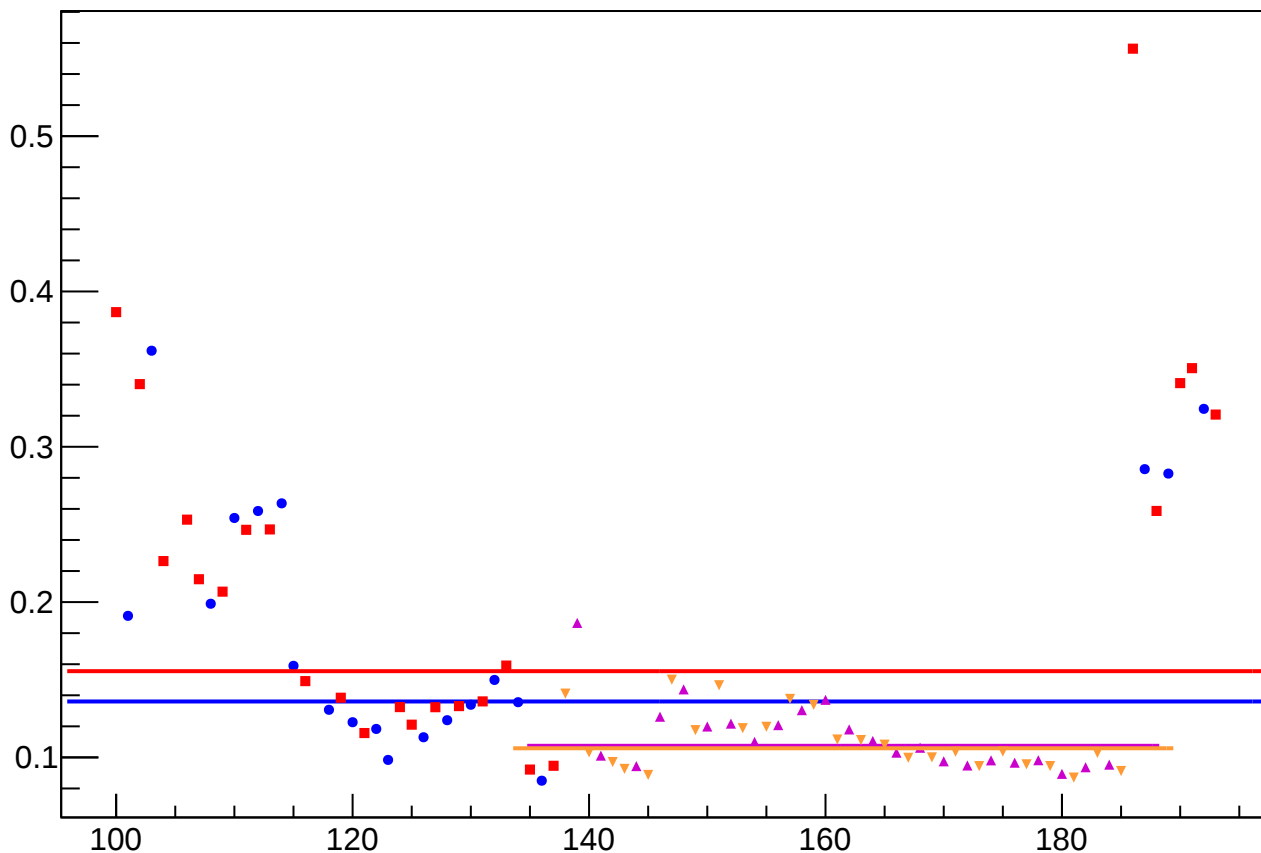
Right: 22.300+/-0.000 χ^2/NDF : 2234806845.0/43

In: 25.707+/-0.000 χ^2/NDF : 8800713073.6/42

Out: 25.595+/-0.000 χ^2/NDF : 10132496812.5/48

All: 25.649+/-0.000 χ^2/NDF : 18943666396.4

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.136+/-0.000 χ^2/NDF : 2443113.6/19

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.156+/-0.000 χ^2/NDF : 2944962.3/23

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

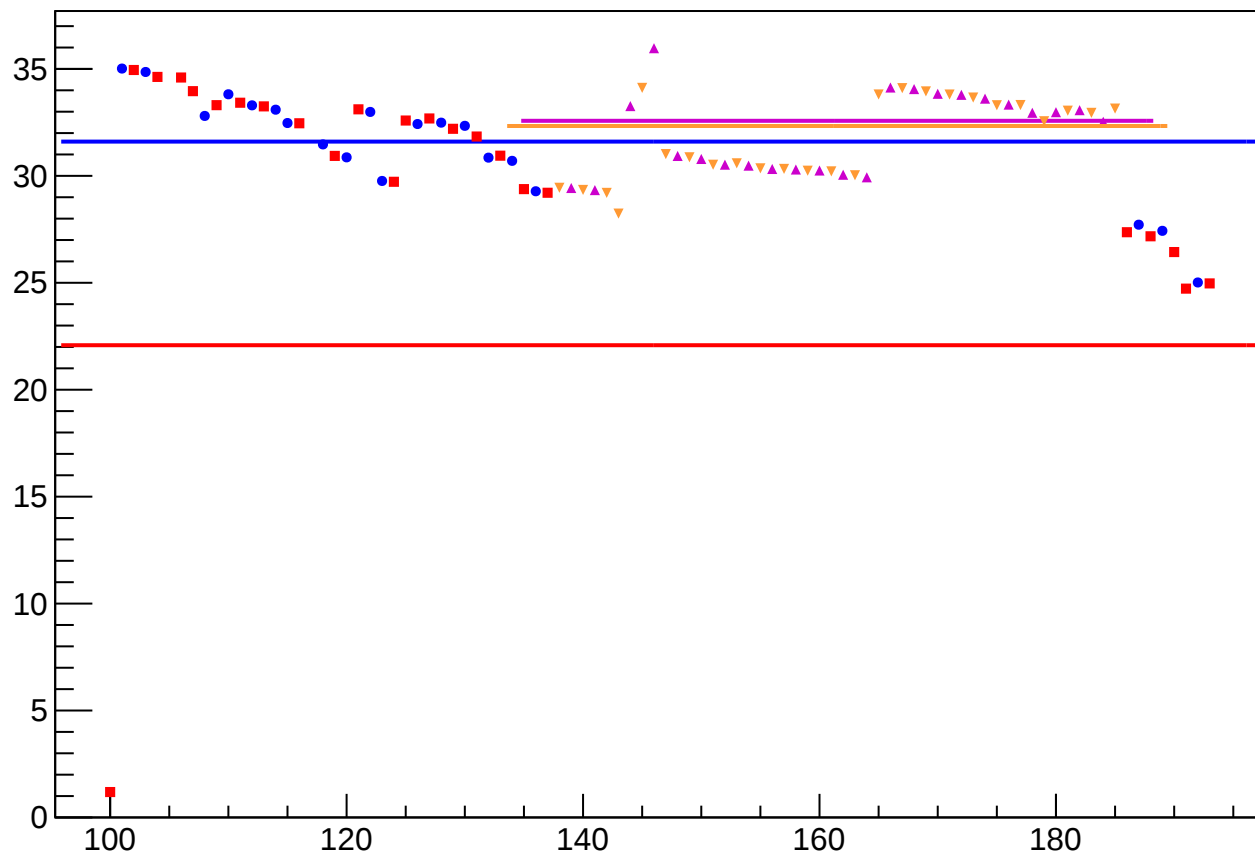
Right: 0.145+/-0.000 χ^2/NDF : 5507097.4/43

In: 0.113+/-0.000 χ^2/NDF : 3638514.2/42

Out: 0.115+/-0.000 χ^2/NDF : 4898395.9/48

All: 0.114+/-0.000 χ^2/NDF : 8540142.2/91

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.602+/-0.000

χ^2/NDF : 2980232474.0/19

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right Out: 22.081+/-0.000

χ^2/NDF : 230447918739.4/23

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.897+/-0.000

χ^2/NDF : 274377413438.0/43

In: 32.417+/-0.000

χ^2/NDF : 15375788112.4/42

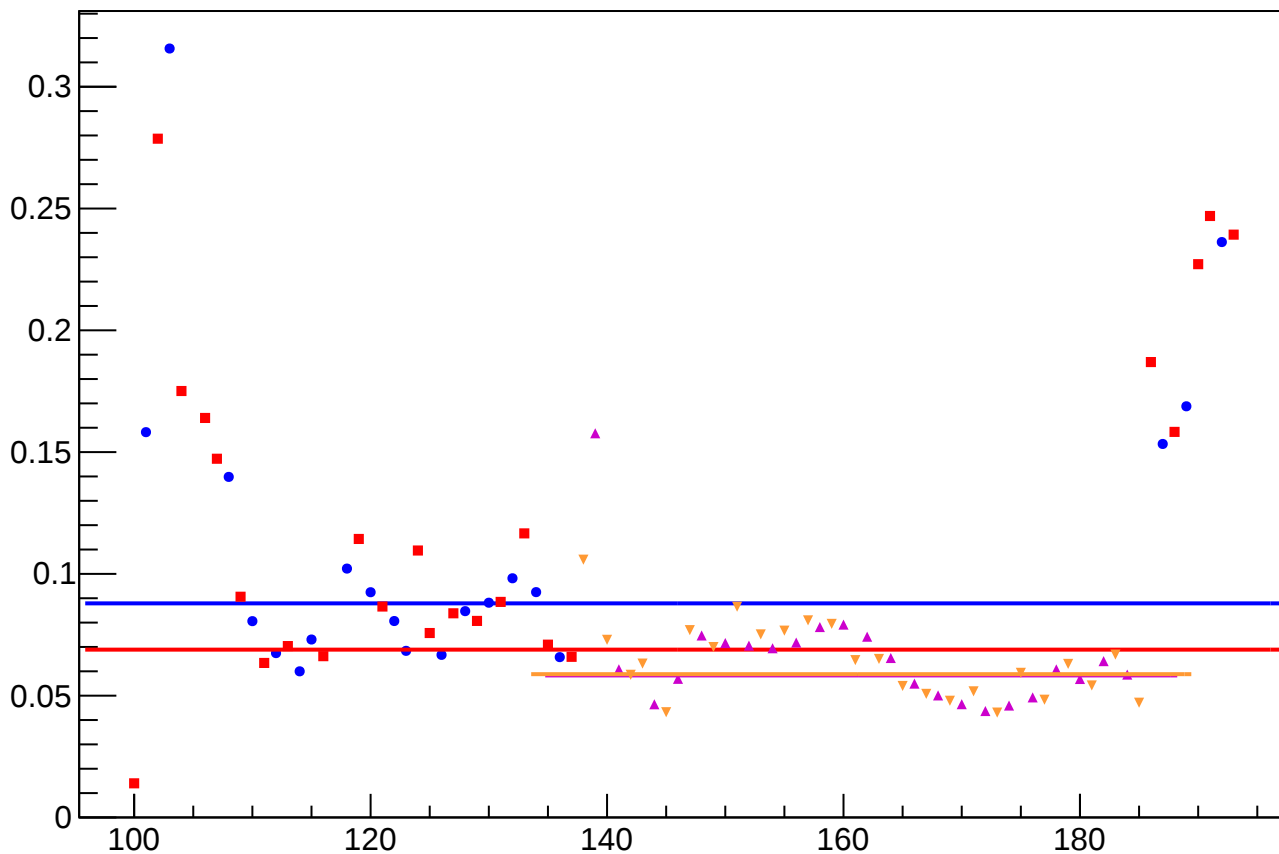
Out: 30.119+/-0.000

χ^2/NDF : 336168323811.8/48

All: 31.204+/-0.000

χ^2/NDF : 364570800809.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.000 χ^2 /NDF: 2166059.5/19

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.069 $\pm$ 0.000 χ^2 /NDF: 5855985.6/23

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

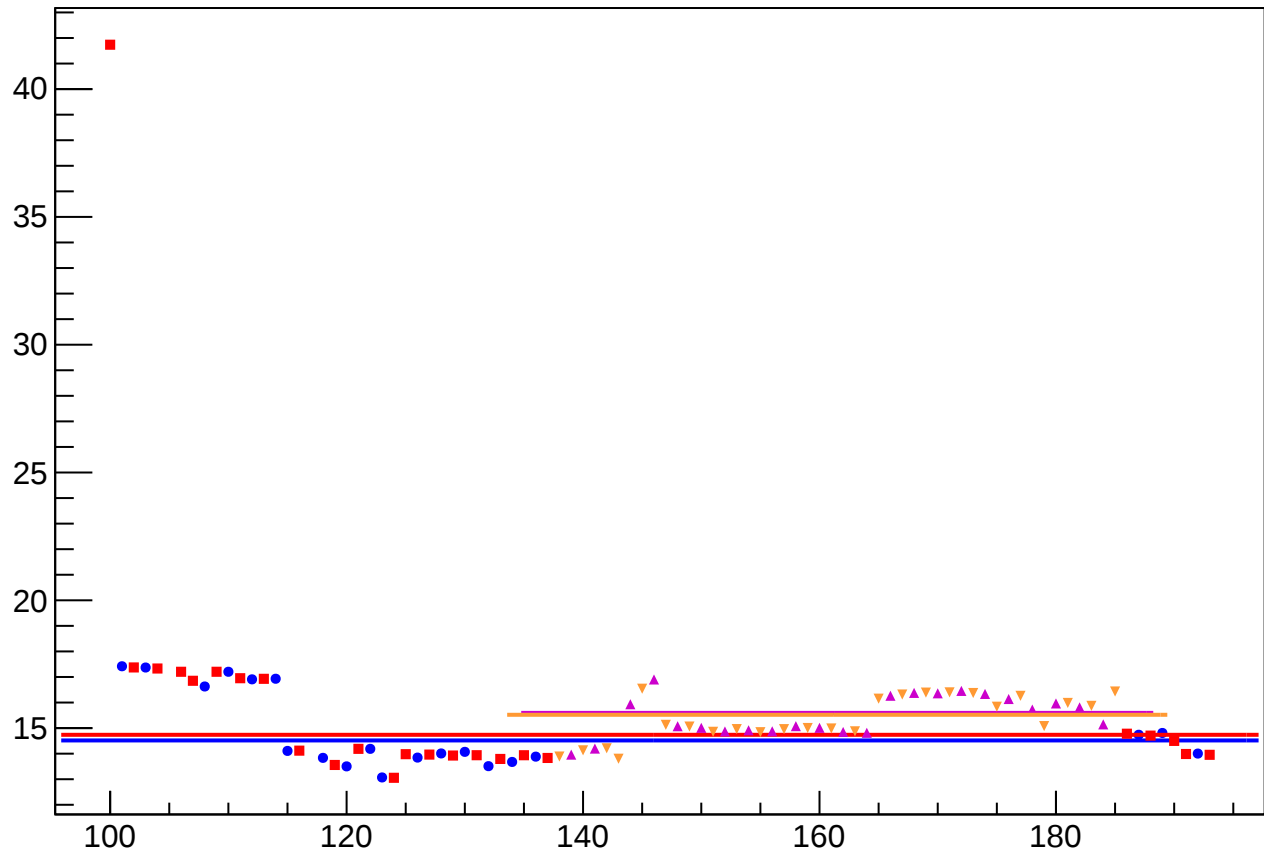
Right: 0.077 $\pm$ 0.000 χ^2 /NDF: 8348090.0/43

In: 0.063 $\pm$ 0.000 χ^2 /NDF:4798215.7/42

Out: 0.061 $\pm$ 0.000 χ^2 /NDF:7437937.5/48

All: 0.062 $\pm$ 0.000 χ^2 /NDF: 12257588.5/91

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.517+/-0.000 χ^2/NDF : 1492323924.2/19

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.738+/-0.000 χ^2/NDF : 1916747120.0/23

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

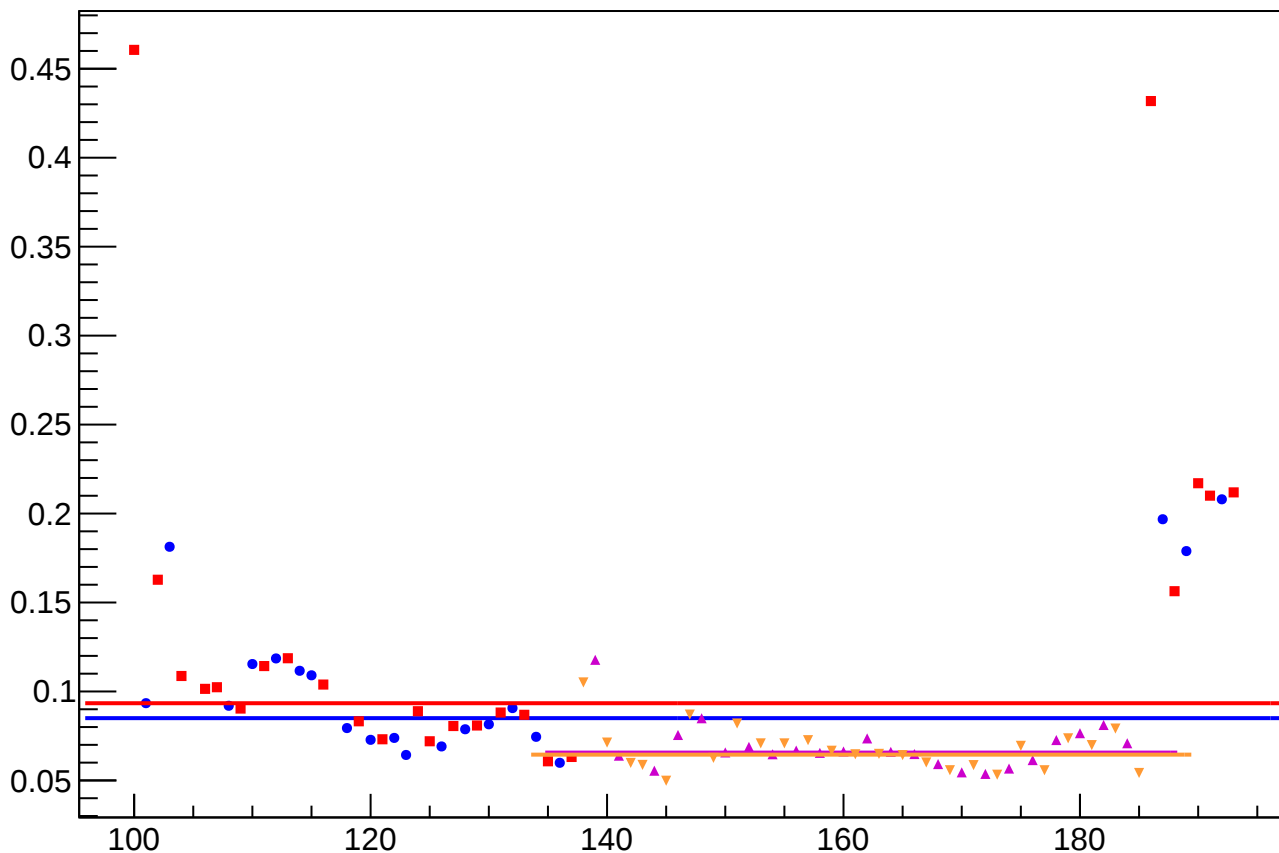
Right: 14.626+/-0.000 χ^2/NDF : 3430476655.7/43

In: 15.372+/-0.000 χ^2/NDF : 4227042086.1/42

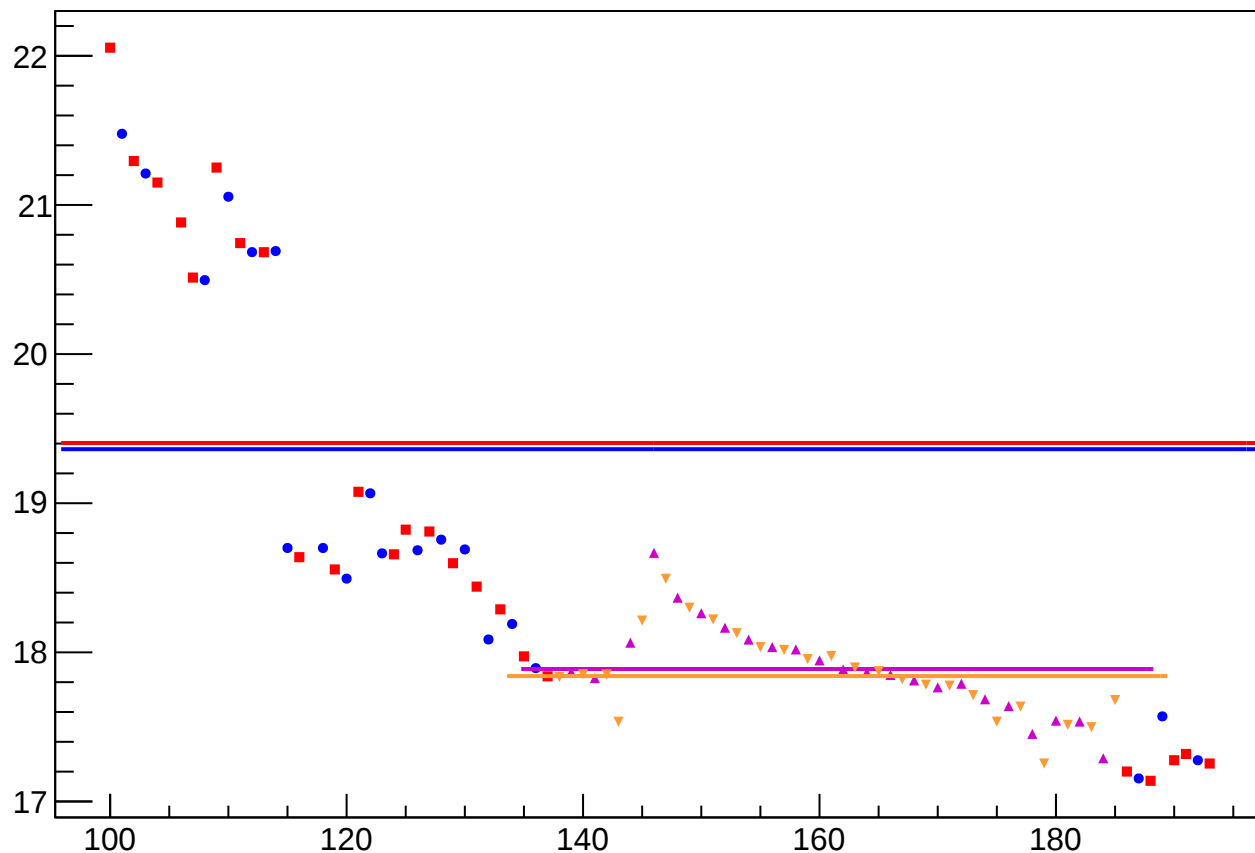
Out: 15.374+/-0.000 χ^2/NDF : 4939748225.4/48

All: 15.373+/-0.000 χ^2/NDF : 9166796256.0/9

yield_sam4_rms vs Slug, Sign Corrected



yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.362 $\pm$ 0.000 χ^2 /NDF: 16873843999.9/19

Left Out: 17.841 $\pm$ 0.000 χ^2 /NDF: 1283287989.7/24

Right Out: 19.404 $\pm$ 0.000 χ^2 /NDF: 19101316143.7/23

Left In: 17.888 $\pm$ 0.000 χ^2 /NDF: 1203002311.3/22

Left: 17.864 $\pm$ 0.000 χ^2 /NDF: 2506375288.6/47

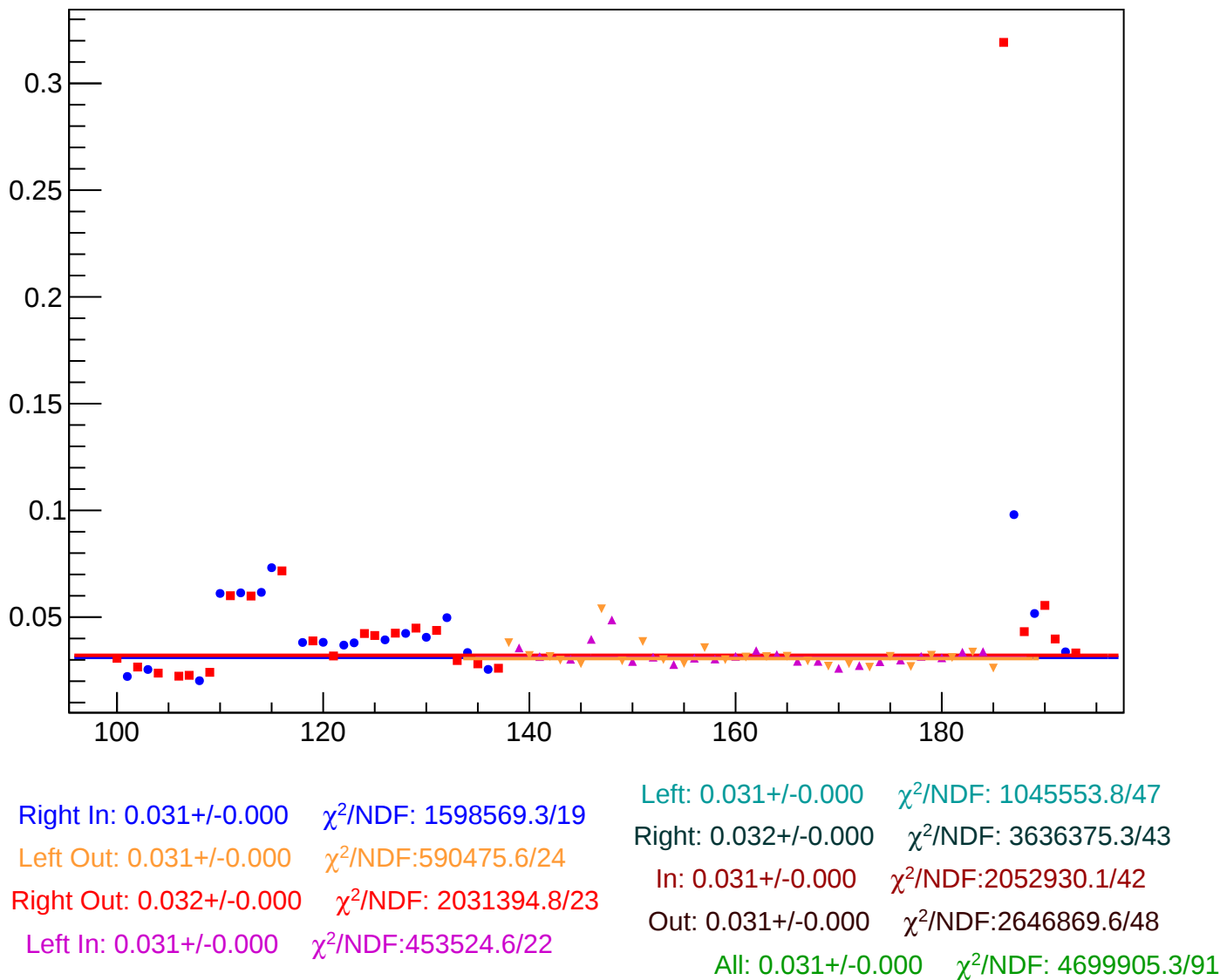
Right: 19.384 $\pm$ 0.000 χ^2 /NDF: 35981498350.4/43

In: 18.314 $\pm$ 0.000 χ^2 /NDF: 28963153229.1/42

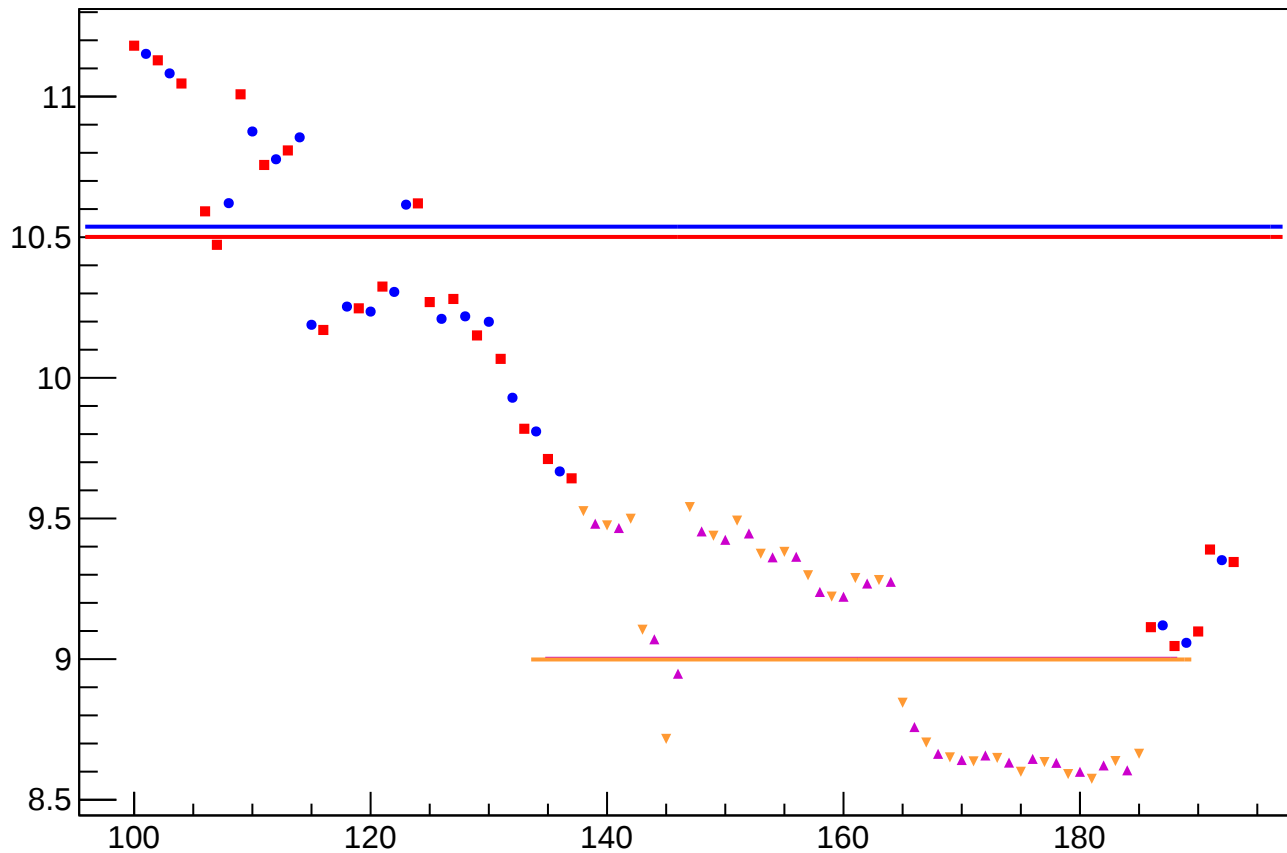
Out: 18.296 $\pm$ 0.000 χ^2 /NDF: 33640180810.9/48

All: 18.305 $\pm$ 0.000 χ^2 /NDF: 62607227786.0

yield_sam5_rms vs Slug, Sign Corrected



yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.537+/-0.000 χ^2/NDF : 9039199546.5/19

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.501+/-0.000 χ^2/NDF : 8497010816.2/23

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

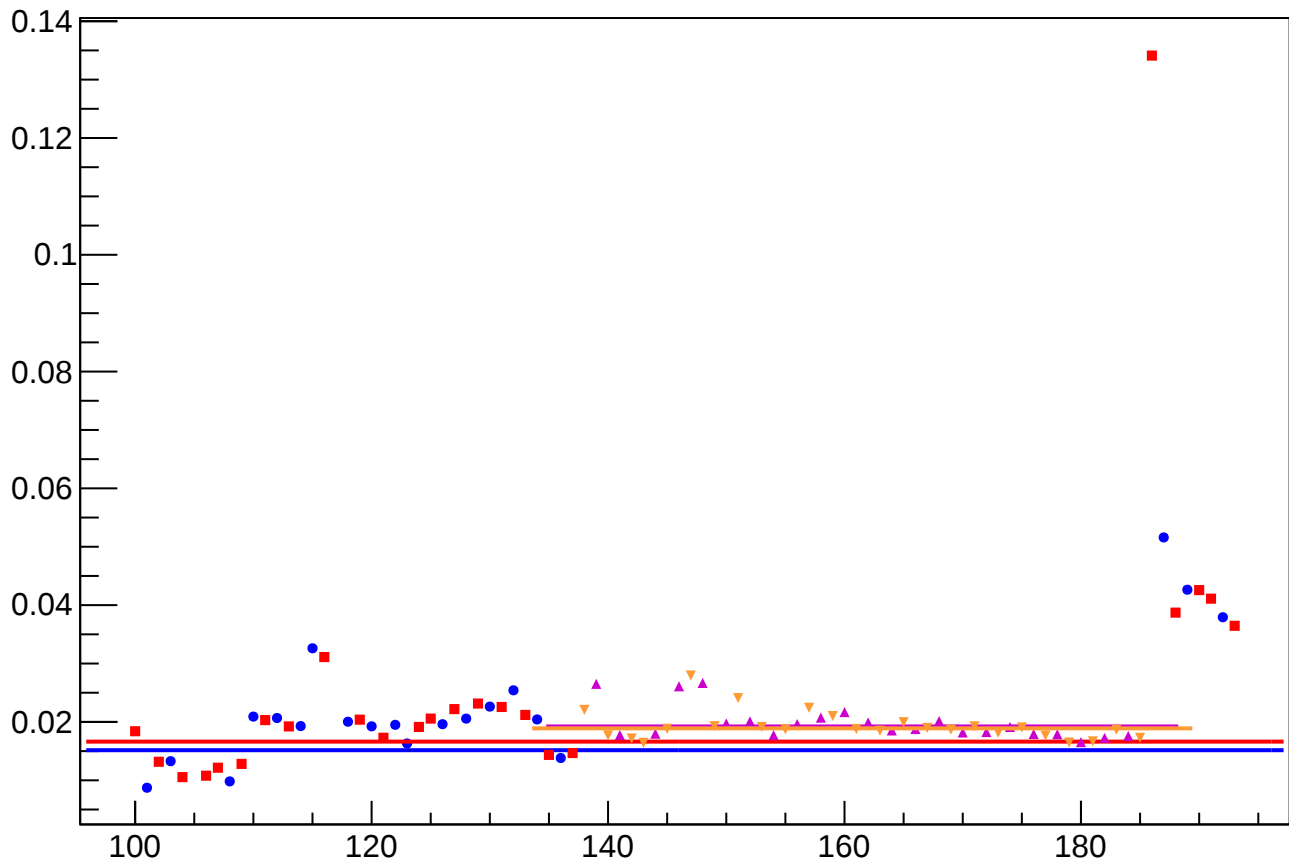
Right: 10.519+/-0.000 χ^2/NDF : 17554055552.5/43

In: 9.595+/-0.000 χ^2/NDF : 53371472222.8/42

Out: 9.543+/-0.000 χ^2/NDF : 53307088134.7/48

All: 9.568+/-0.000 χ^2/NDF : 106773543944.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 2581017.1/19

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.017+/-0.000 χ^2/NDF : 3043765.6/23

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

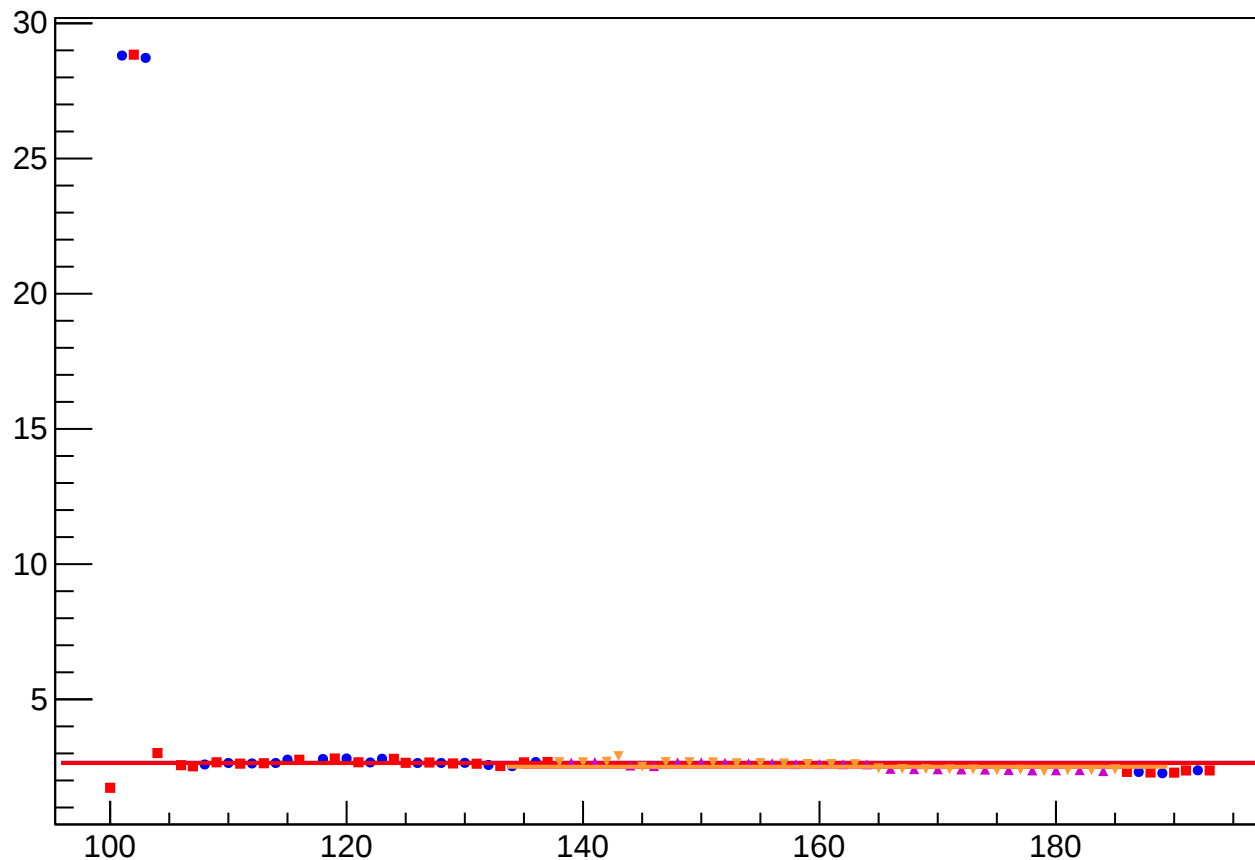
Right: 0.016+/-0.000 χ^2/NDF : 5682872.1/43

In: 0.018+/-0.000 χ^2/NDF : 3610572.7/42

Out: 0.018+/-0.000 χ^2/NDF : 3647472.9/48

All: 0.018+/-0.000 χ^2/NDF : 7270782.9/91

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.655+/-0.000 χ^2/NDF : 167499020864.0/19

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.644+/-0.000 χ^2/NDF : 78784414667.9/23

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

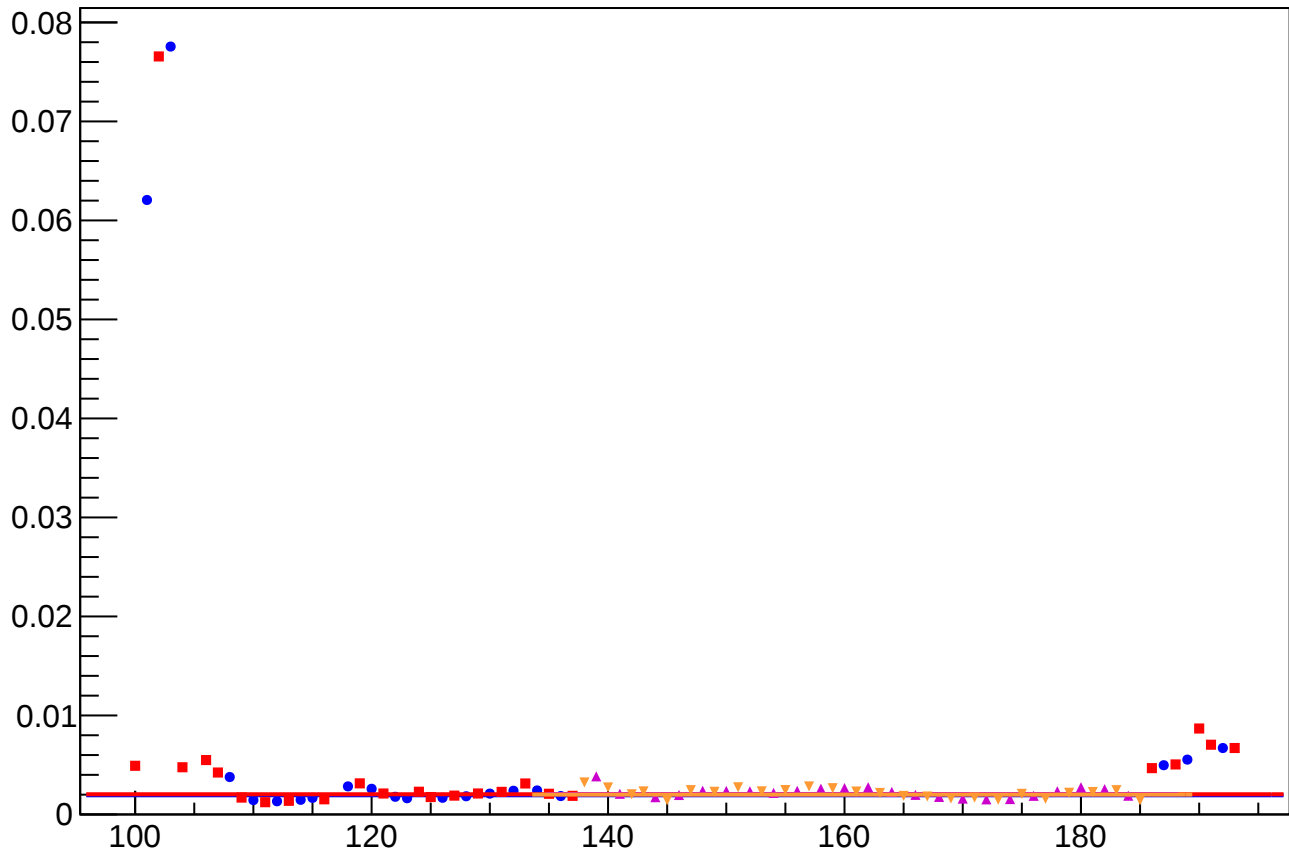
Right: 2.649+/-0.000 χ^2/NDF : 246366768998.2/43

In: 2.549+/-0.000 χ^2/NDF : 232092899996.7/42

Out: 2.546+/-0.000 χ^2/NDF : 162880149437.3/48

All: 2.548+/-0.000 χ^2/NDF : 394997521330.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4048100.7/19

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4590170.6/23

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

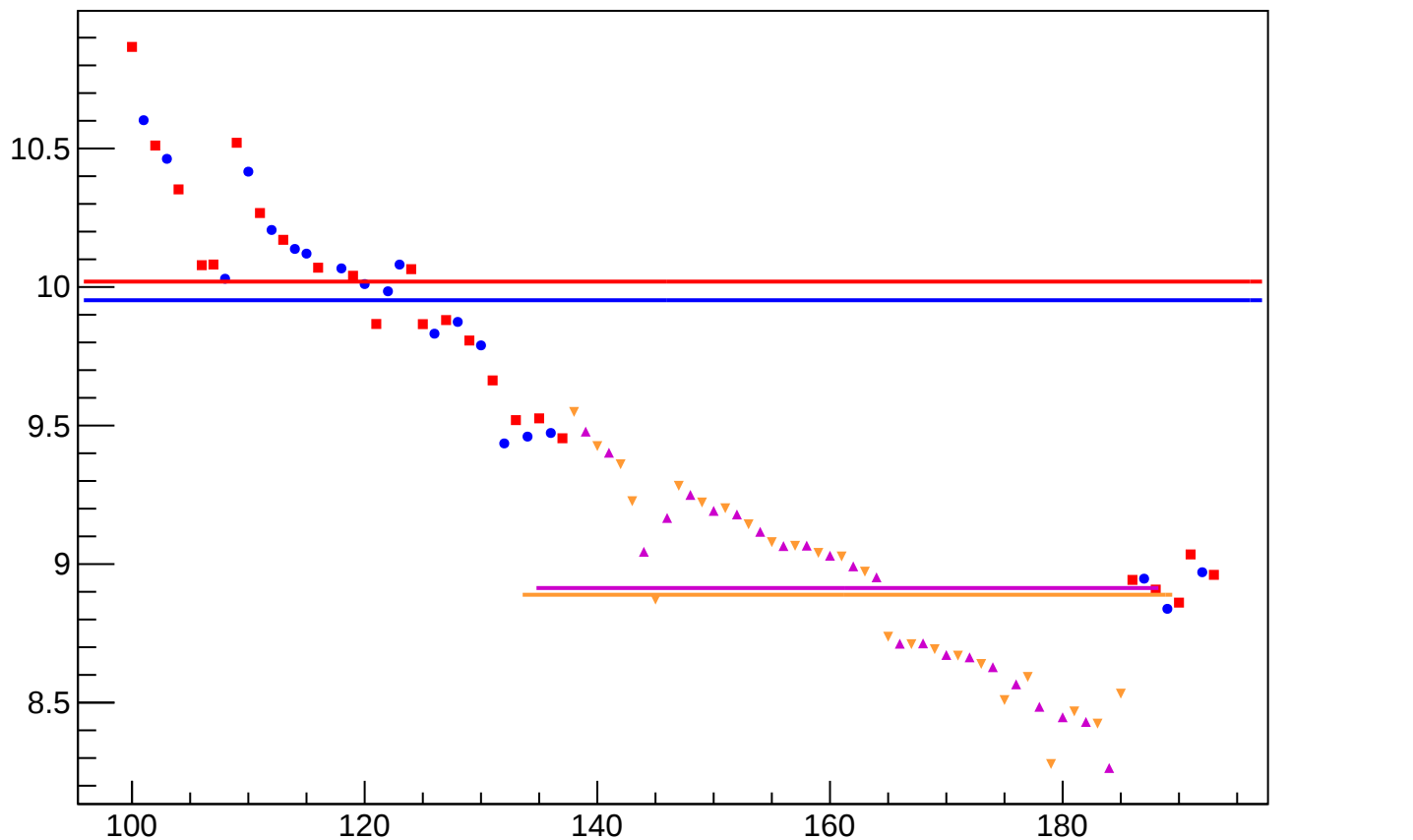
Right: 0.002+/-0.000 χ^2/NDF : 8653906.7/43

In: 0.002+/-0.000 χ^2/NDF :5381025.8/42

Out: 0.002+/-0.000 χ^2/NDF :6061655.2/48

All: 0.002+/-0.000 χ^2/NDF : 11442881.6/91

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.952 $\pm$ 0.000 χ^2 /NDF: 25921209396.9/19

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 10.020 $\pm$ 0.000 χ^2 /NDF: 28241593944.7/23

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

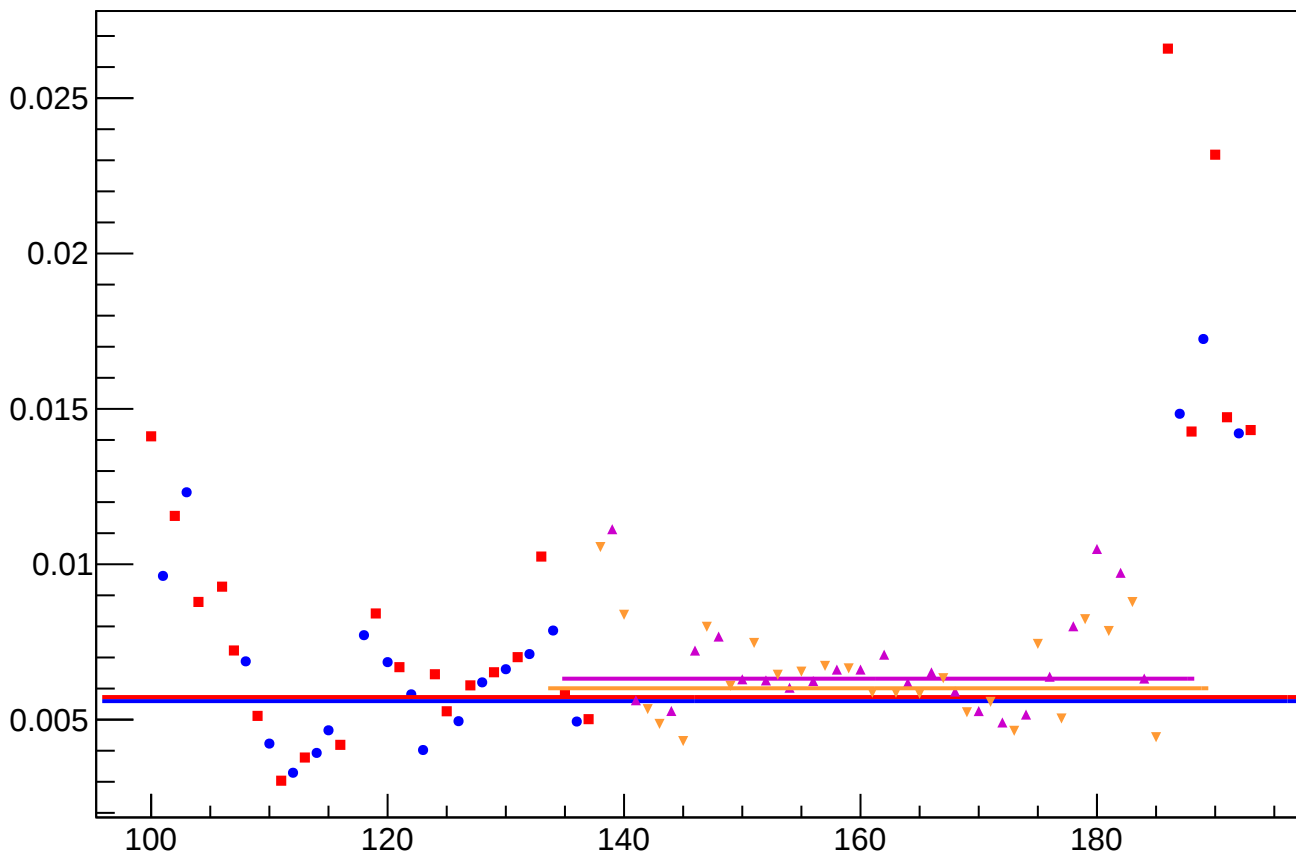
Right: 9.987 $\pm$ 0.000 χ^2 /NDF: 54602057745.8/43

In: 9.277 $\pm$ 0.000 χ^2 /NDF: 185948462888.3/42

Out: 9.266 $\pm$ 0.000 χ^2 /NDF: 234550024572.1/48

All: 9.272 $\pm$ 0.000 χ^2 /NDF: 420532337666.6

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2429067.0/19

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 3911442.2/23

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

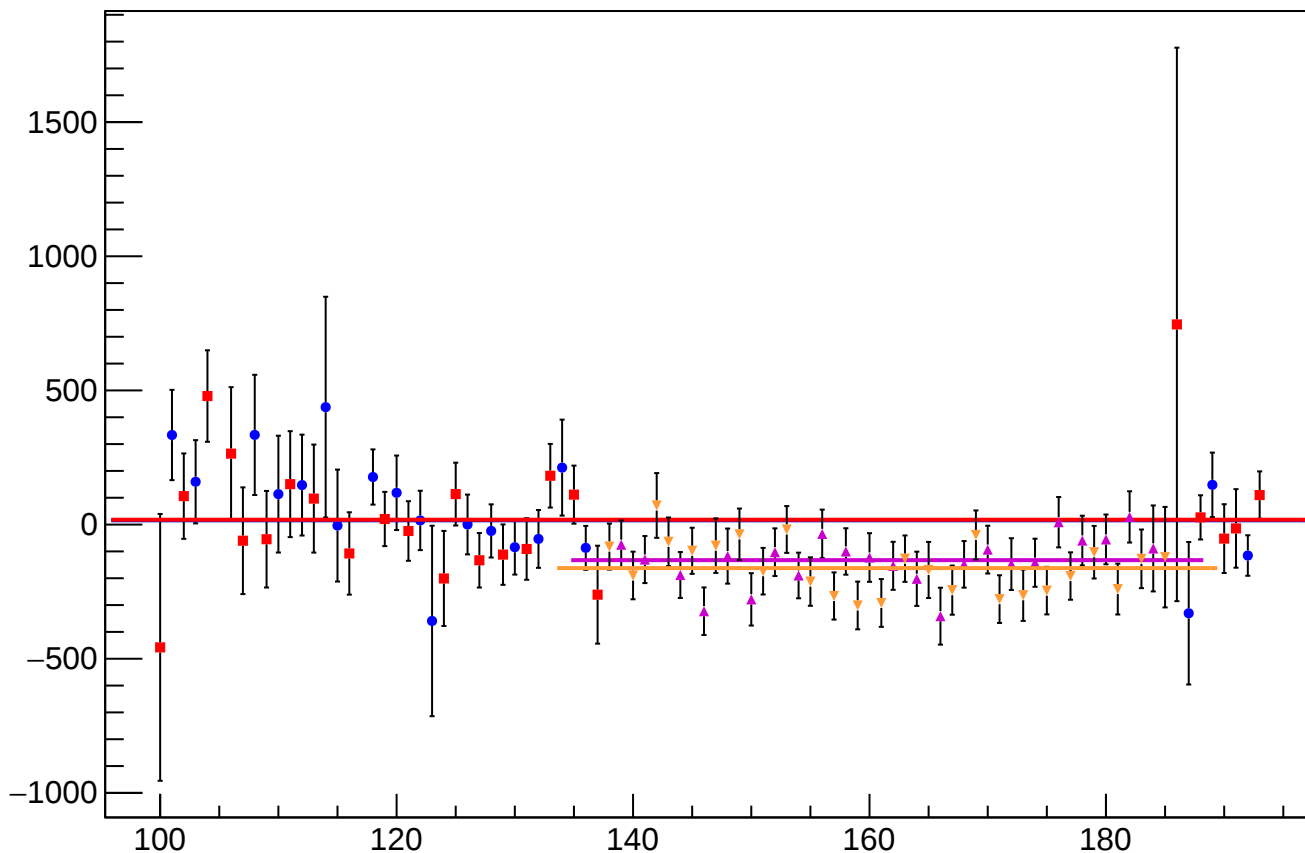
Right: 0.006+/-0.000 χ^2/NDF : 6343829.2/43

In: 0.006+/-0.000 χ^2/NDF :3643308.8/42

Out: 0.006+/-0.000 χ^2/NDF :5245424.2/48

All: 0.006+/-0.000 χ^2/NDF : 8901566.8/91

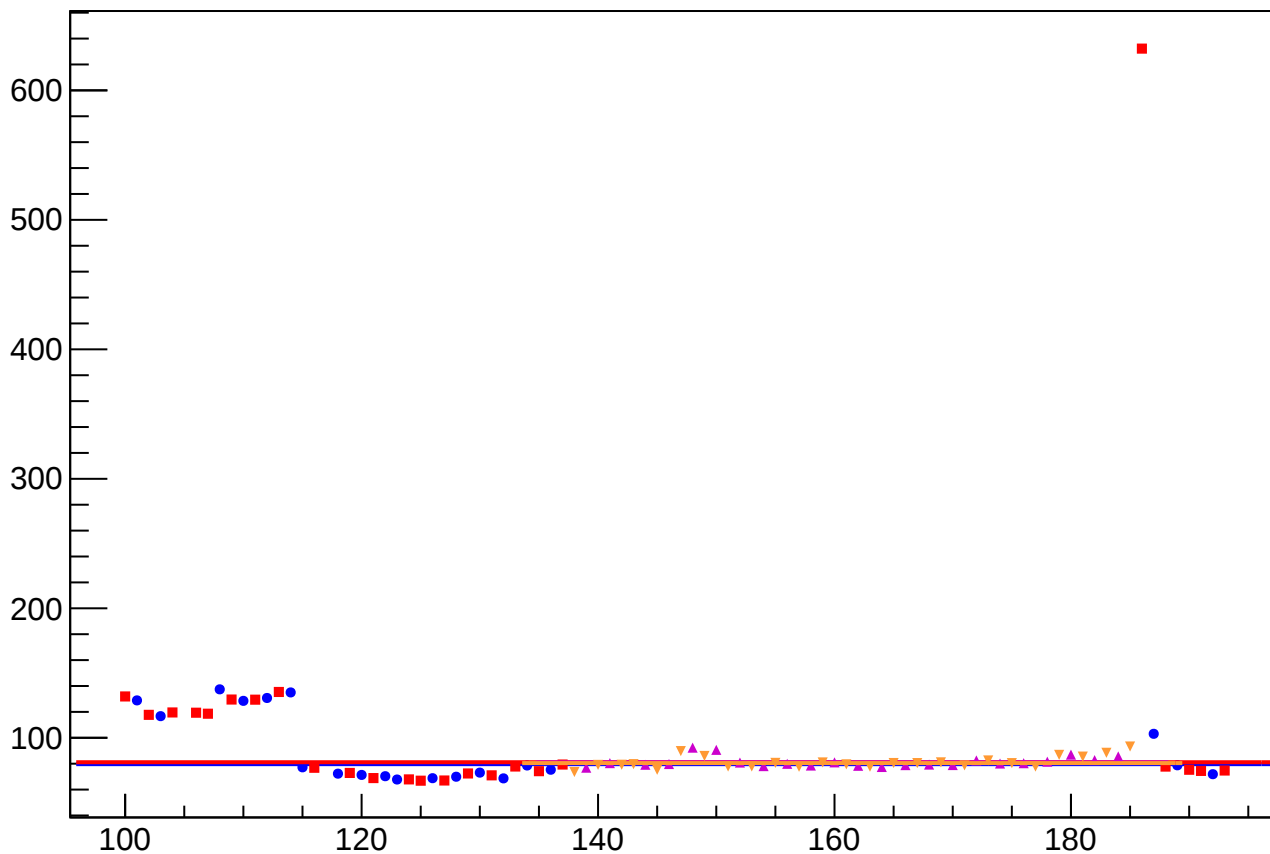
reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 15.953 ± 28.690 $\chi^2/\text{NDF}: 22.6/19$
Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$
Right Out: 18.157 ± 27.223 $\chi^2/\text{NDF}: 24.8/23$
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: 17.113 ± 19.748 $\chi^2/\text{NDF}: 47.4/43$
In: -85.949 ± 16.073 $\chi^2/\text{NDF}: 61.7/42$
Out: -104.167 ± 15.439 $\chi^2/\text{NDF}: 80.3/48$
All: -95.424 ± 11.134 $\chi^2/\text{NDF}: 142.7/91$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 79.641 $\pm$ 0.020 χ^2 /NDF: 847027.8/19

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 81.126 $\pm$ 0.019 χ^2 /NDF: 1505998.1/23

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

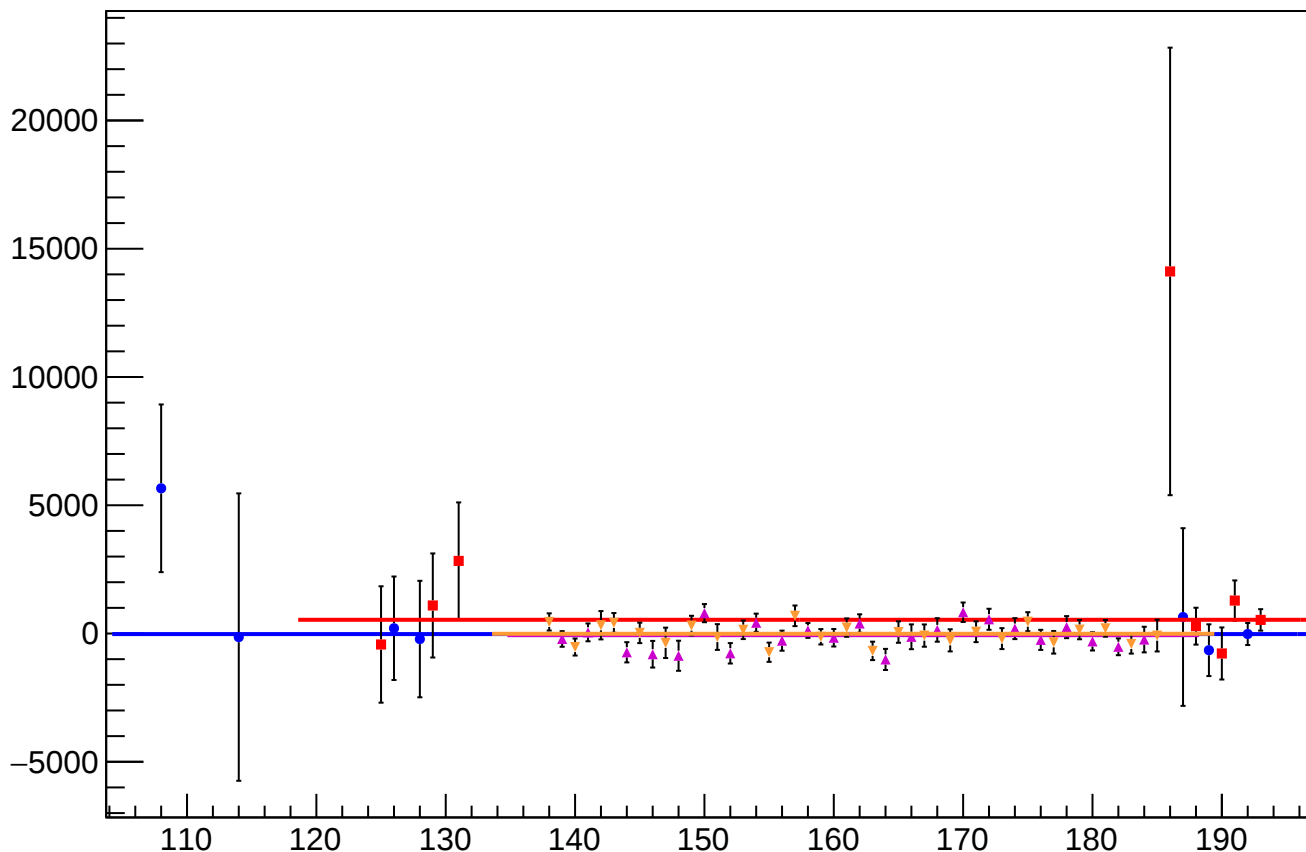
Right: 80.423 $\pm$ 0.014 χ^2 /NDF: 2355845.1/43

In: 80.583 $\pm$ 0.011 χ^2 /NDF: 922418.8/42

Out: 80.673 $\pm$ 0.011 χ^2 /NDF: 1596755.9/48

All: 80.630 $\pm$ 0.008 χ^2 /NDF: 2519207.5/91

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -21.859 $\pm$ 377.076 χ^2/NDF : 3.5/6

Left Out: -10.486 $\pm$ 78.391 χ^2/NDF :22.5/24

Right Out: 535.515 $\pm$ 303.090 χ^2/NDF : 6.4/7

Left In: -64.591 $\pm$ 80.047 χ^2/NDF :37.4/22

Left: -36.973 $\pm$ 56.007 χ^2/NDF : 60.2/47

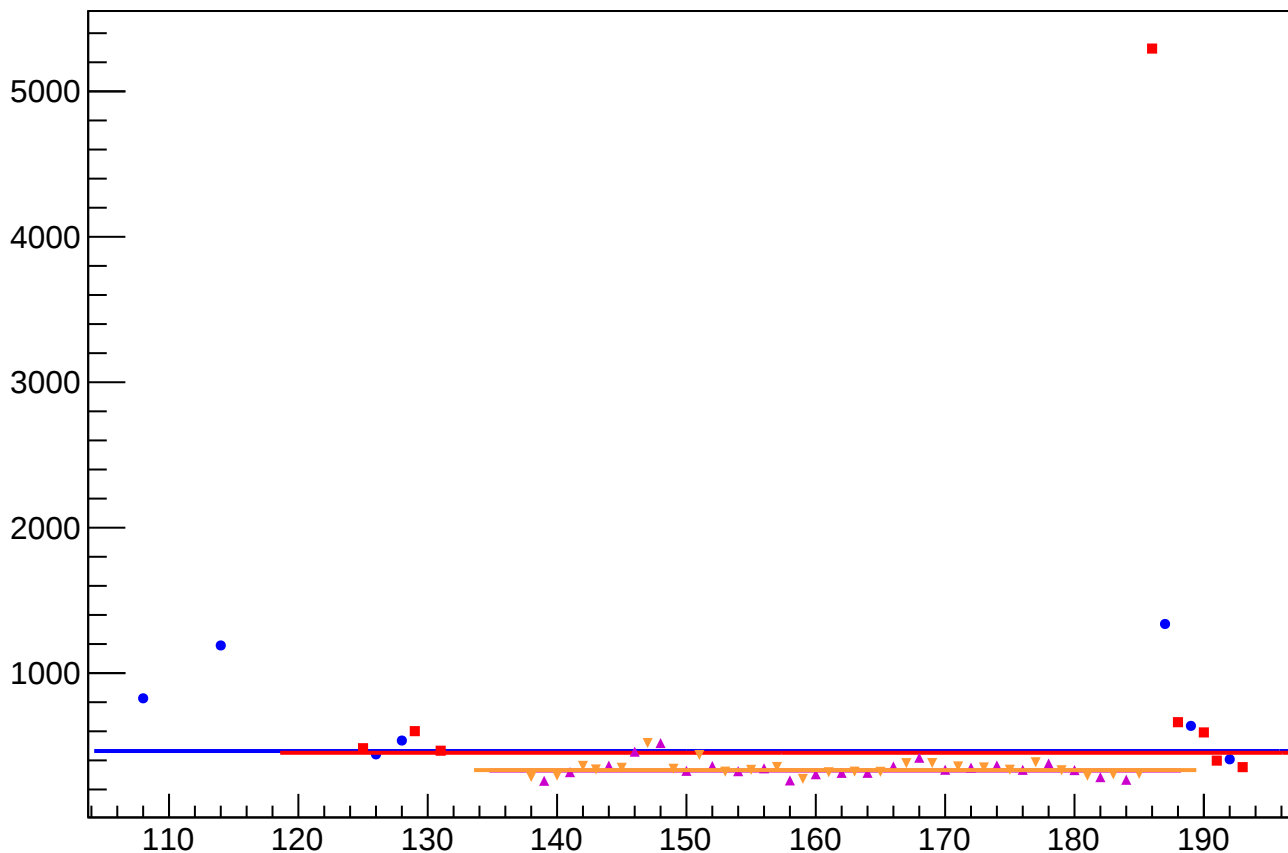
Right: 316.749 $\pm$ 236.236 χ^2/NDF : 11.2/14

In: -62.749 $\pm$ 78.302 χ^2/NDF :40.9/29

Out: 23.748 $\pm$ 75.894 χ^2/NDF :32.0/32

All: -18.150 $\pm$ 54.496 χ^2/NDF : 73.5/62

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 464.413+/-0.267 χ^2/NDF : 281610.1/6

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 452.309+/-0.214 χ^2/NDF : 957756.2/7

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

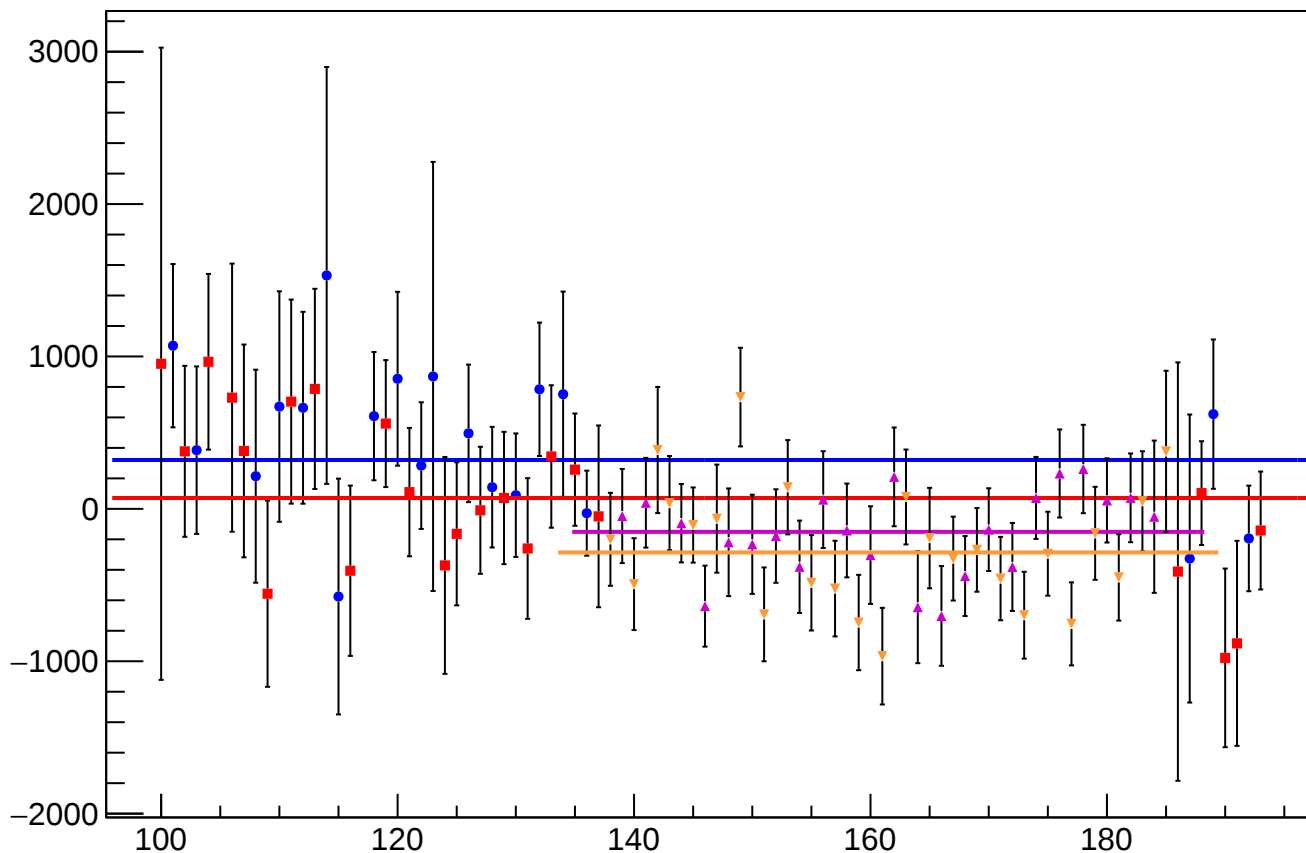
Right: 457.060+/-0.167 χ^2/NDF : 1240618.2/14

In: 335.782+/-0.055 χ^2/NDF : 1320803.3/29

Out: 340.699+/-0.054 χ^2/NDF : 1839221.0/32

All: 338.317+/-0.039 χ^2/NDF : 3164091.0/62

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 320.767 $\pm$ 110.709 χ^2 /NDF: 13.0/19

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: 71.199 $\pm$ 105.663 χ^2 /NDF: 16.4/23

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

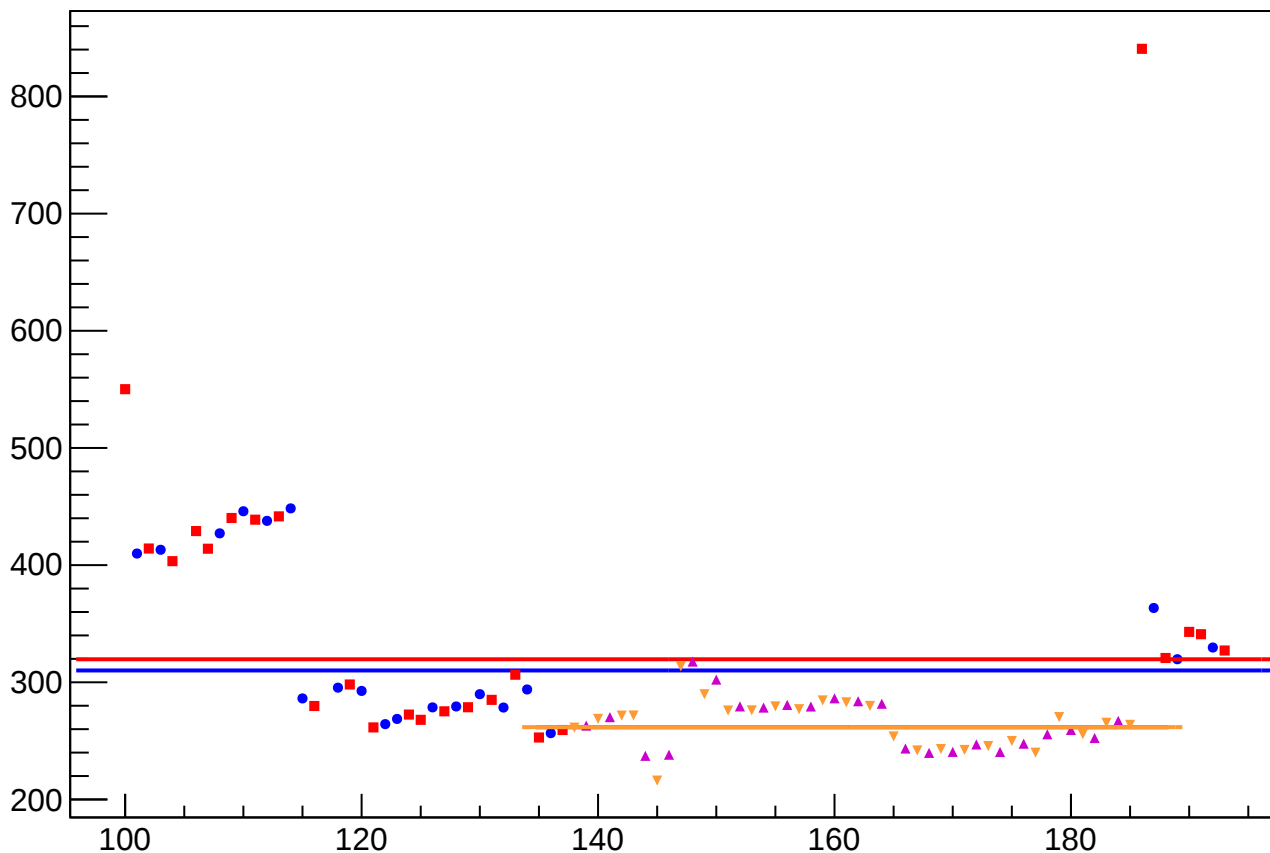
Right: 190.166 $\pm$ 76.437 χ^2 /NDF: 32.0/43

In: -36.042 $\pm$ 54.635 χ^2 /NDF:45.4/42

Out: -196.526 $\pm$ 52.890 χ^2 /NDF:61.5/48

All: -118.888 $\pm$ 38.001 χ^2 /NDF: 111.3/91

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 310.105+/-0.078 χ^2/NDF : 520637.3/19

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 319.643+/-0.075 χ^2/NDF : 921516.9/23

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

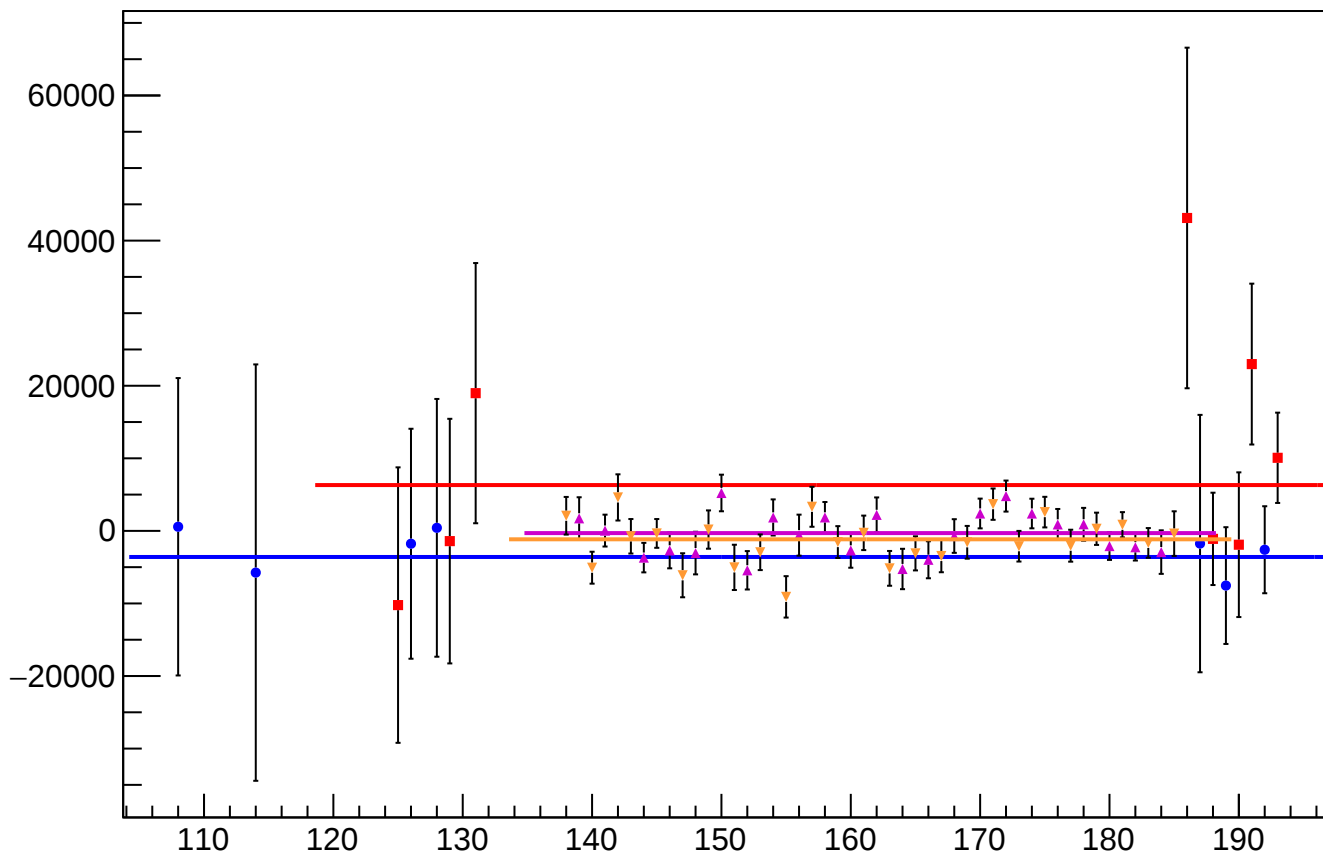
Right: 315.097+/-0.054 χ^2/NDF : 1449922.6/43

In: 273.441+/-0.039 χ^2/NDF : 1038861.3/42

Out: 276.234+/-0.037 χ^2/NDF : 1605147.5/48

All: 274.883+/-0.027 χ^2/NDF : 2646707.1/91

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3595.789 ± 4181.133 $\chi^2/\text{NDF}: 0.4/6$

Left Out: -1161.443 ± 469.036 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 6314.019 ± 3536.321 $\chi^2/\text{NDF}: 8.6/7$

Left In: -304.366 ± 483.778 $\chi^2/\text{NDF}: 35.4/22$

Left: -746.162 ± 336.750 $\chi^2/\text{NDF}: 75.7/47$

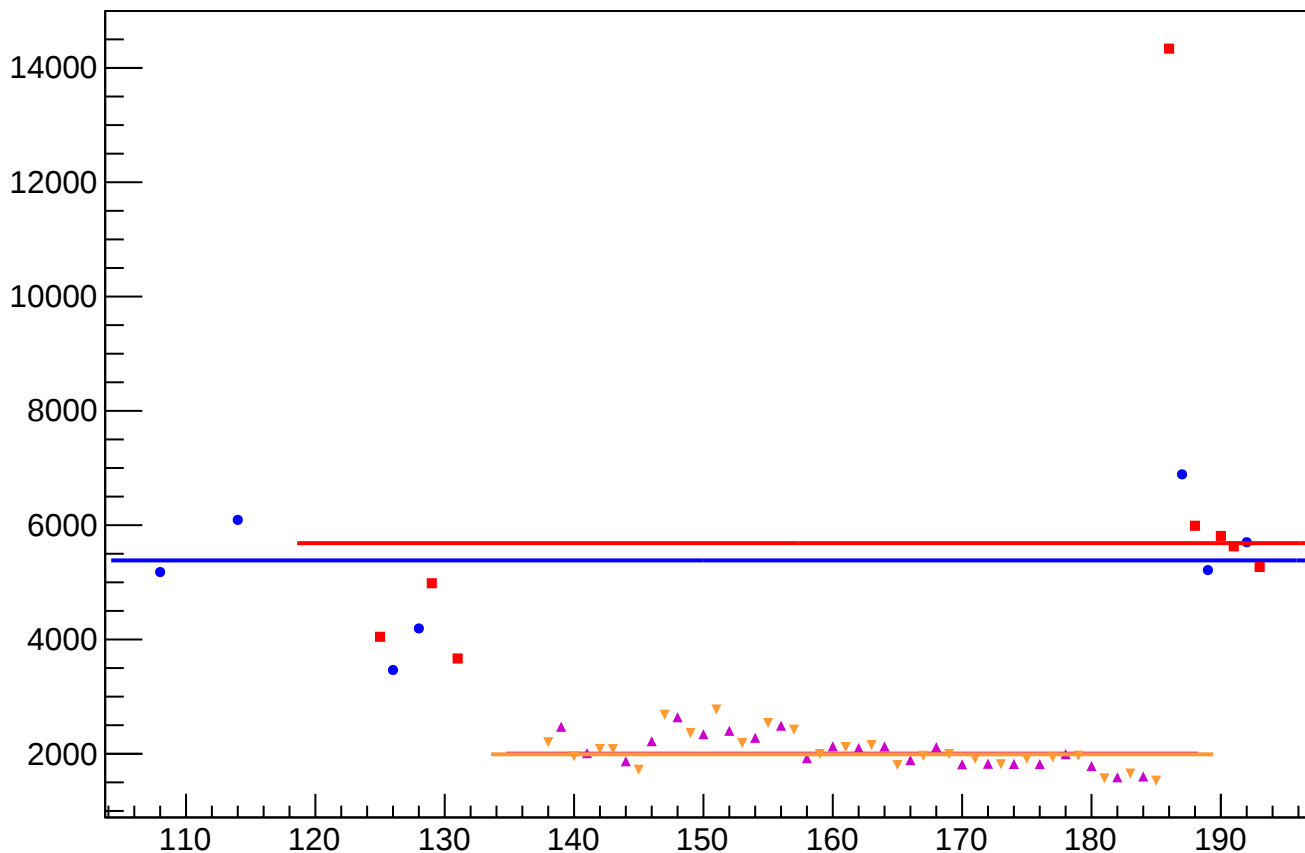
Right: 2181.364 ± 2700.076 $\chi^2/\text{NDF}: 12.3/14$

In: -347.848 ± 480.572 $\chi^2/\text{NDF}: 36.4/29$

Out: -1032.209 ± 464.964 $\chi^2/\text{NDF}: 51.7/32$

All: -701.322 ± 334.161 $\chi^2/\text{NDF}: 89.2/62$

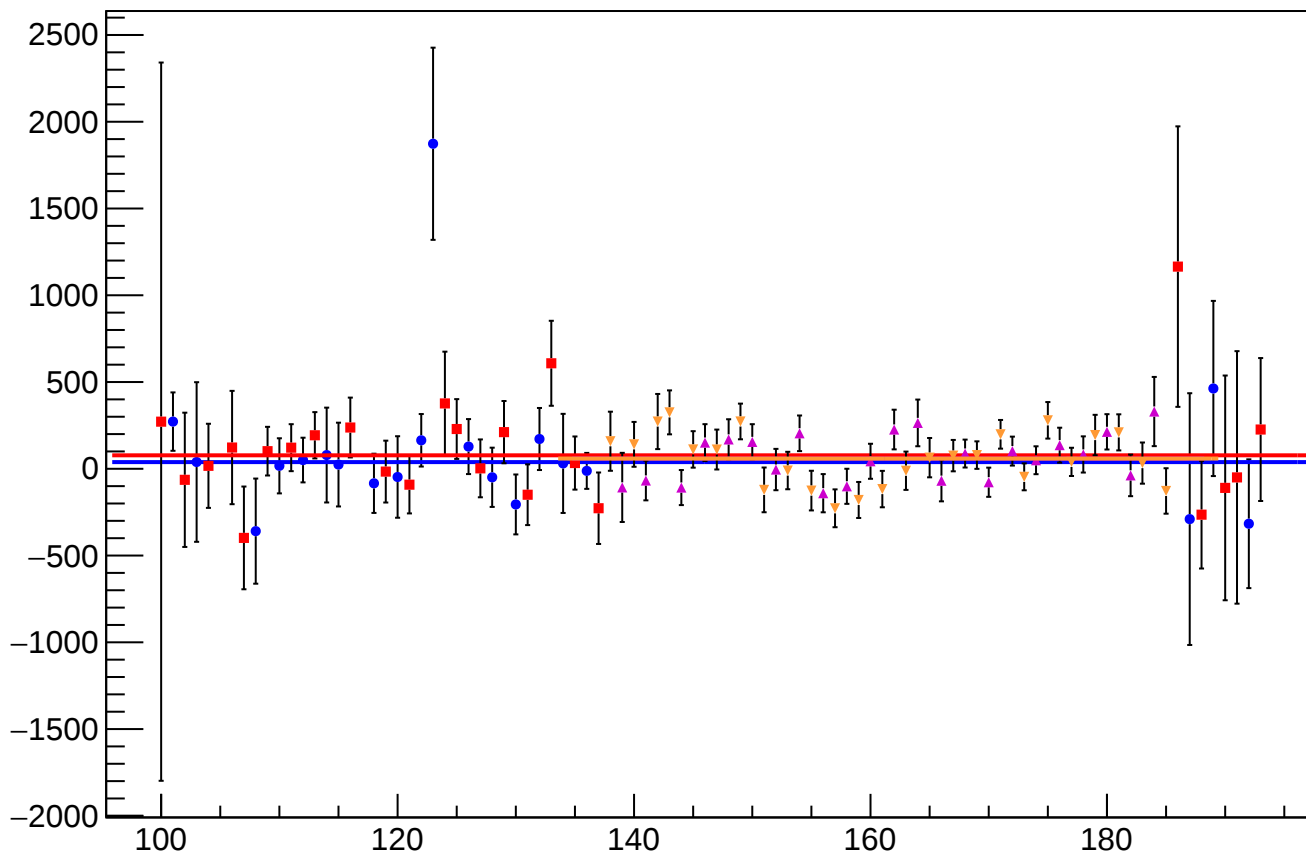
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5383.586+/-2.957 χ^2/NDF : 60621.7/6
 Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24
 Right Out: 5685.282+/-2.501 χ^2/NDF : 329501.2/7
 Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47
 Right: 5559.467+/-1.909 χ^2/NDF : 396193.5/14
 In: 2046.825+/-0.340 χ^2/NDF : 1937395.0/29
 Out: 2054.968+/-0.329 χ^2/NDF : 3200620.9/32
 All: 2051.031+/-0.236 χ^2/NDF : 5138312.5/62

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 38.514 $\pm$ 43.099 χ^2 /NDF: 21.2/19

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 77.637 $\pm$ 42.348 χ^2 /NDF: 20.3/23

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

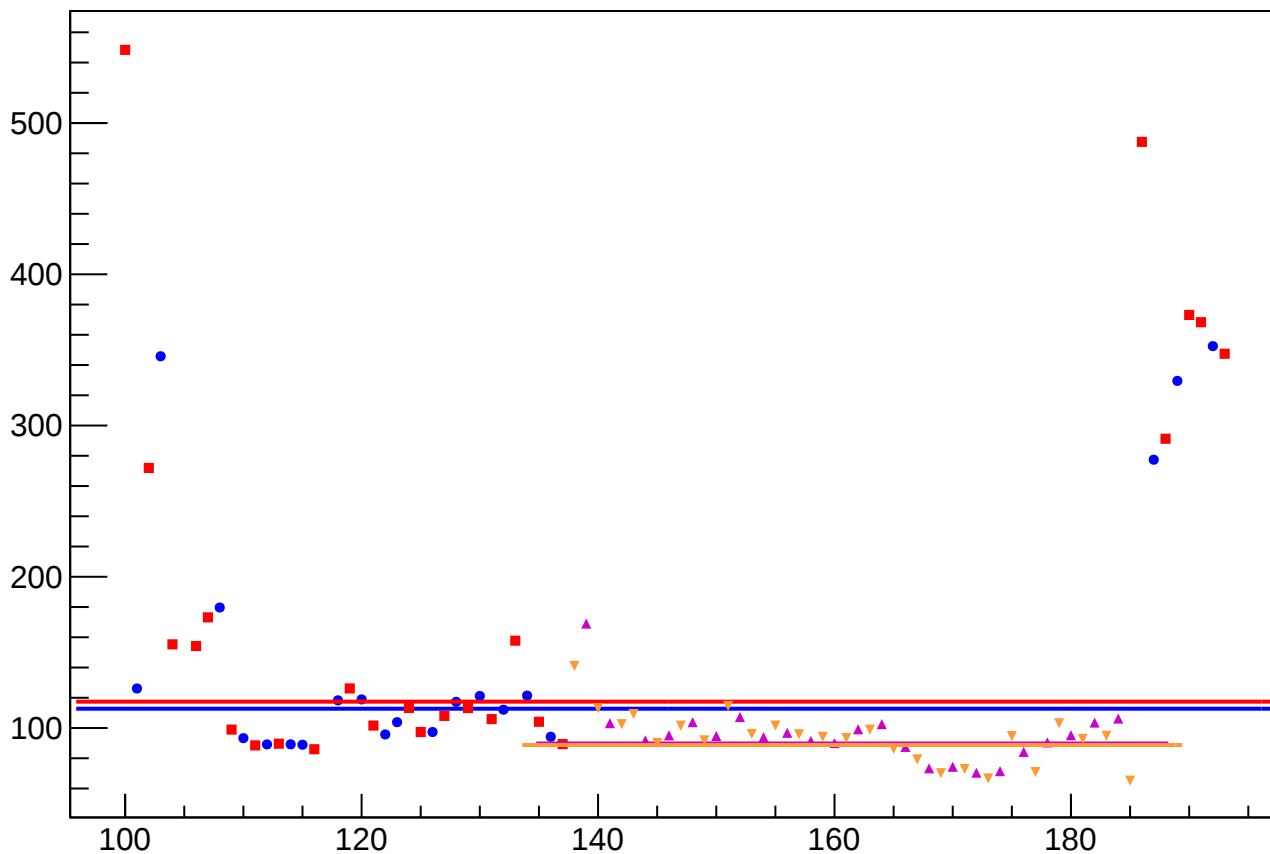
Right: 58.419 $\pm$ 30.207 χ^2 /NDF: 42.0/43

In: 54.976 $\pm$ 19.539 χ^2 /NDF:50.8/42

Out: 62.703 $\pm$ 18.912 χ^2 /NDF:67.4/48

All: 58.965 $\pm$ 13.589 χ^2 /NDF: 118.3/91

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 112.762 $\pm$ 0.030 χ^2 /NDF: 2182605.0/19

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 117.430 $\pm$ 0.030 χ^2 /NDF: 3224196.4/23

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

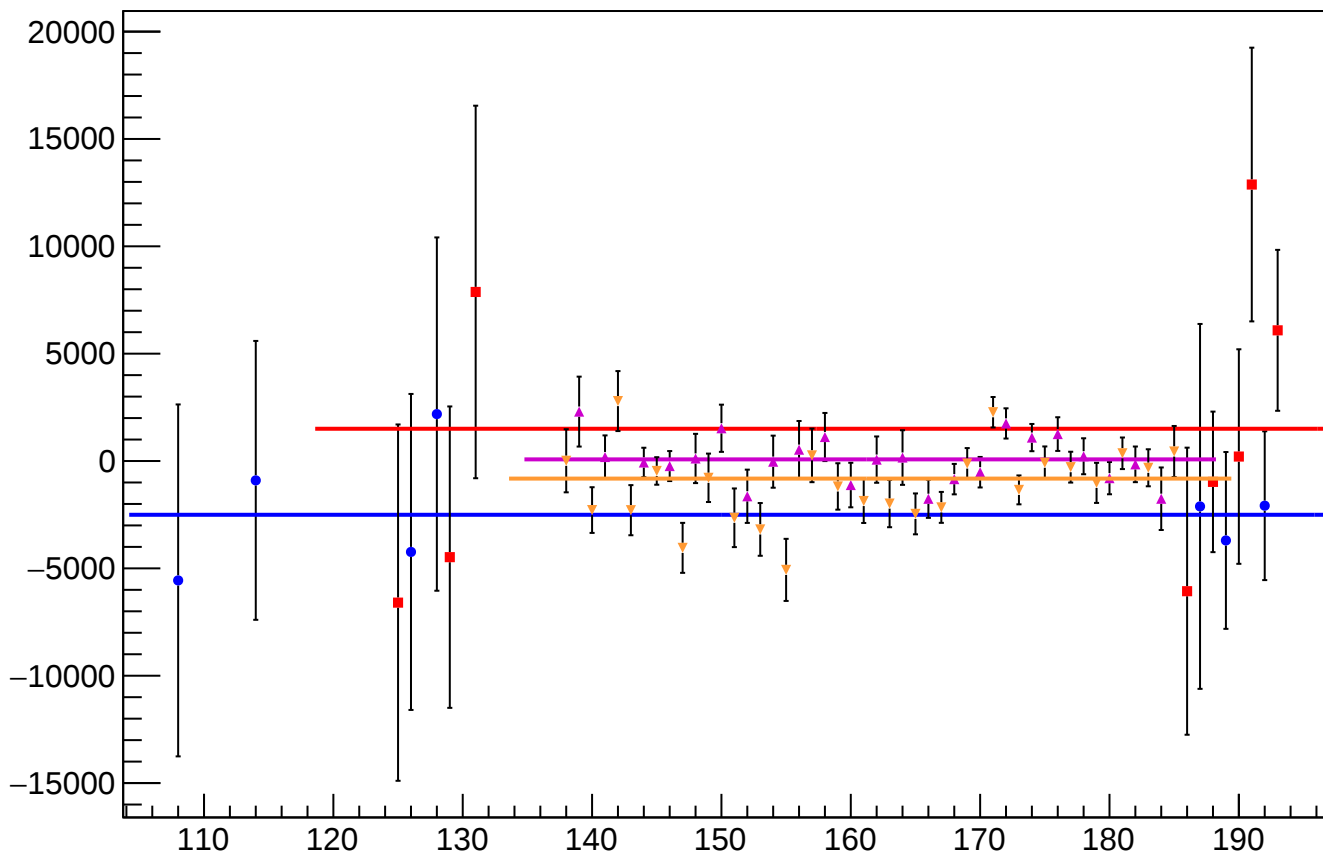
Right: 115.137 $\pm$ 0.021 χ^2 /NDF: 5418736.1/43

In: 94.492 $\pm$ 0.014 χ^2 /NDF:3520794.1/42

Out: 94.469 $\pm$ 0.013 χ^2 /NDF:5037974.3/48

All: 94.480 $\pm$ 0.010 χ^2 /NDF: 8558769.9/91

asym_sam3_correction_mean vs Slug, Sign Corrected



Left: -376.610 $\pm$ 131.202 χ^2/NDF : 108.1/47

Right: -228.470 $\pm$ 1376.673 χ^2/NDF : 11.6/14

In: 55.874 $\pm$ 185.914 χ^2/NDF : 30.5/29

Out: -795.443 $\pm$ 183.530 χ^2/NDF : 78.6/32

All: -375.277 $\pm$ 130.610 χ^2/NDF : 119.7/62

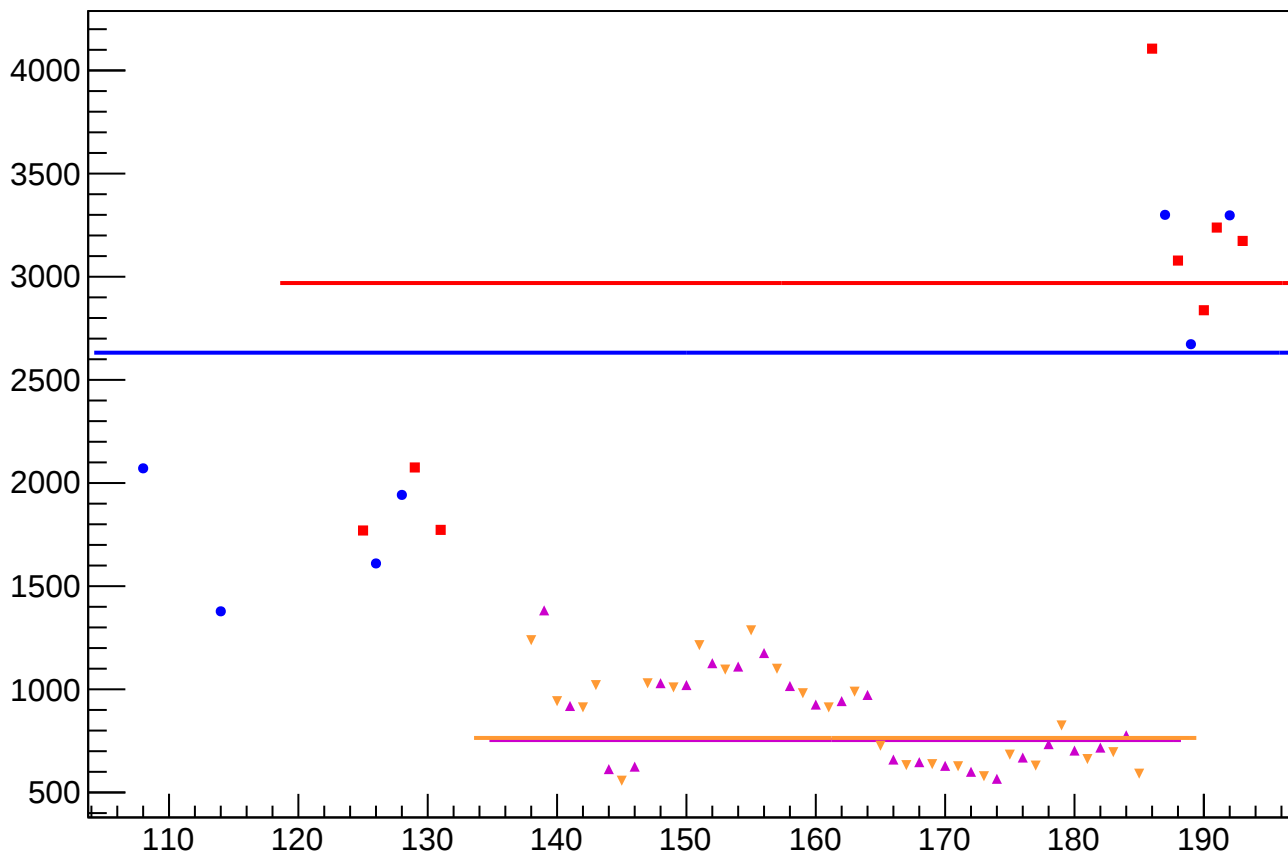
Right In: -2504.361 $\pm$ 2094.608 χ^2/NDF : 0.7/6

Left Out: -818.877 $\pm$ 184.464 χ^2/NDF : 68.2/24

Right Out: 1502.298 $\pm$ 1826.612 χ^2/NDF : 8.8/7

Left In: 76.204 $\pm$ 186.651 χ^2/NDF : 28.3/22

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2631.849+/-1.481 χ^2 /NDF: 222849.2/6

Left Out: 764.280+/-0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2969.450+/-1.292 χ^2 /NDF: 183149.2/7

Left In: 754.027+/-0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214+/-0.093 χ^2 /NDF: 4332425.4/47

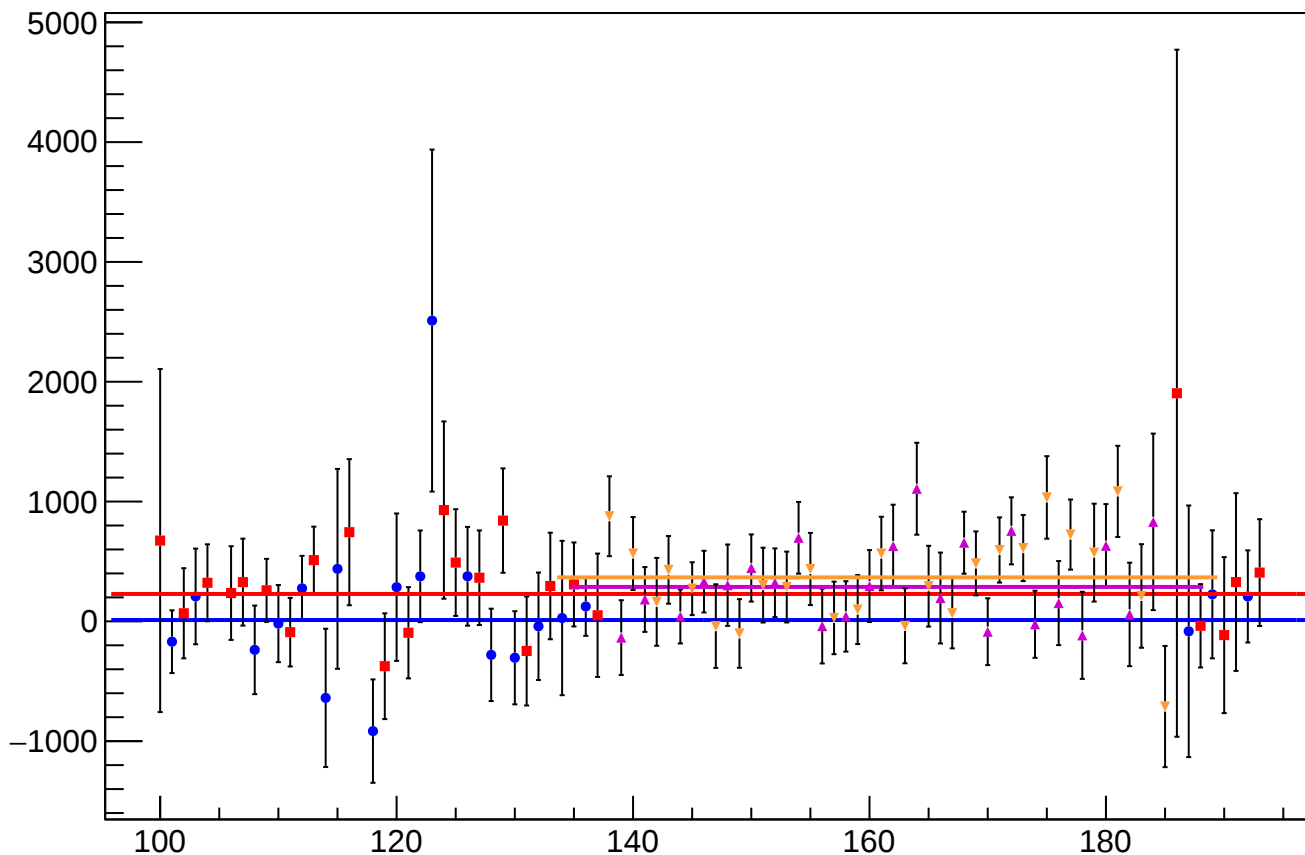
Right: 2823.616+/-0.973 χ^2 /NDF: 435510.5/14

In: 768.820+/-0.131 χ^2 /NDF: 3831008.2/29

Out: 786.542+/-0.130 χ^2 /NDF: 5384595.0/32

All: 777.795+/-0.092 χ^2 /NDF: 9224806.4/62

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 10.968 $\pm$ 89.209 χ^2 /NDF: 15.1/19

Left Out: 367.028 $\pm$ 61.943 χ^2 /NDF: 28.2/24

Right Out: 228.566 $\pm$ 83.465 χ^2 /NDF: 12.0/23

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

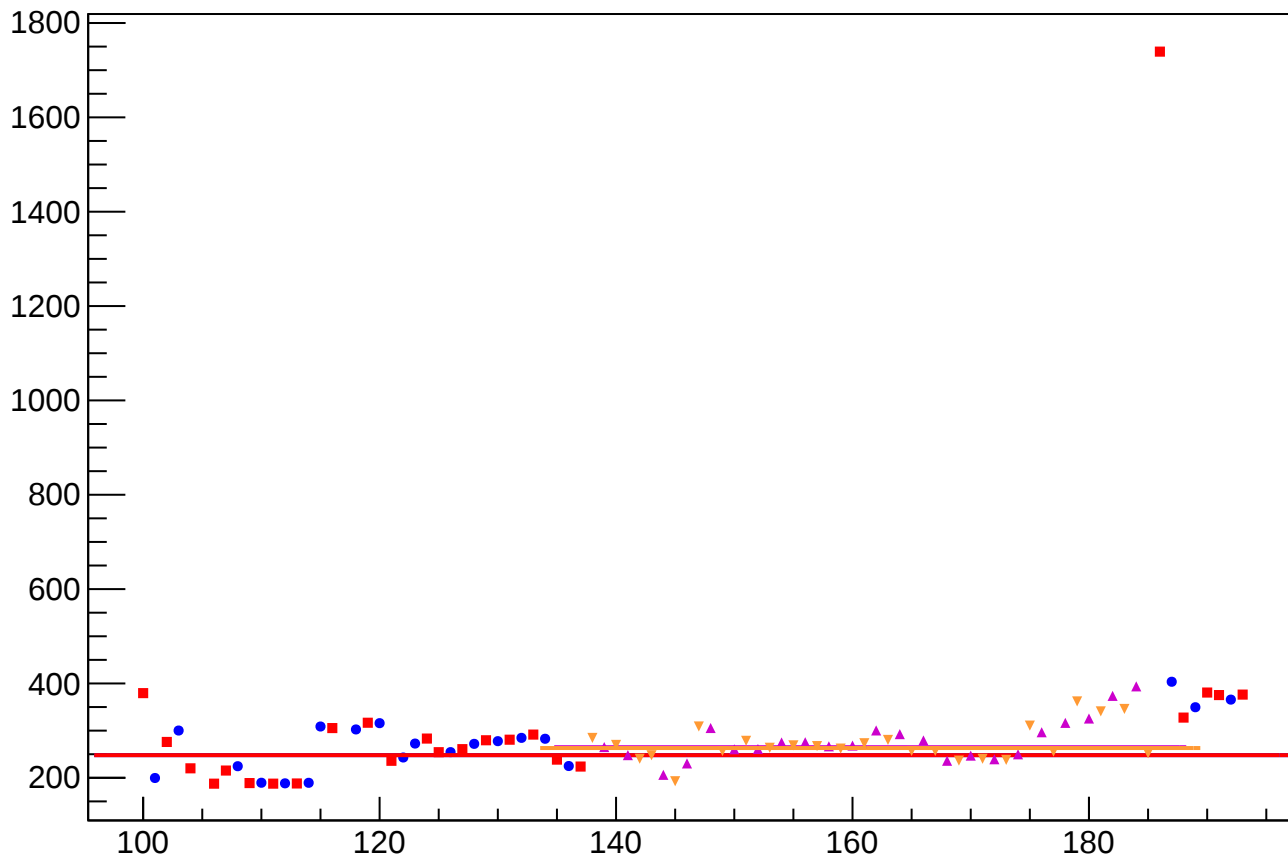
Right: 126.996 $\pm$ 60.948 χ^2 /NDF: 30.3/43

In: 193.095 $\pm$ 52.077 χ^2 /NDF: 45.3/42

Out: 317.851 $\pm$ 49.742 χ^2 /NDF: 42.0/48

All: 258.333 $\pm$ 35.970 χ^2 /NDF: 90.4/91

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 248.046 $\pm$ 0.063 χ^2 /NDF: 722860.4/19

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 247.983 $\pm$ 0.059 χ^2 /NDF: 1464756.1/23

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

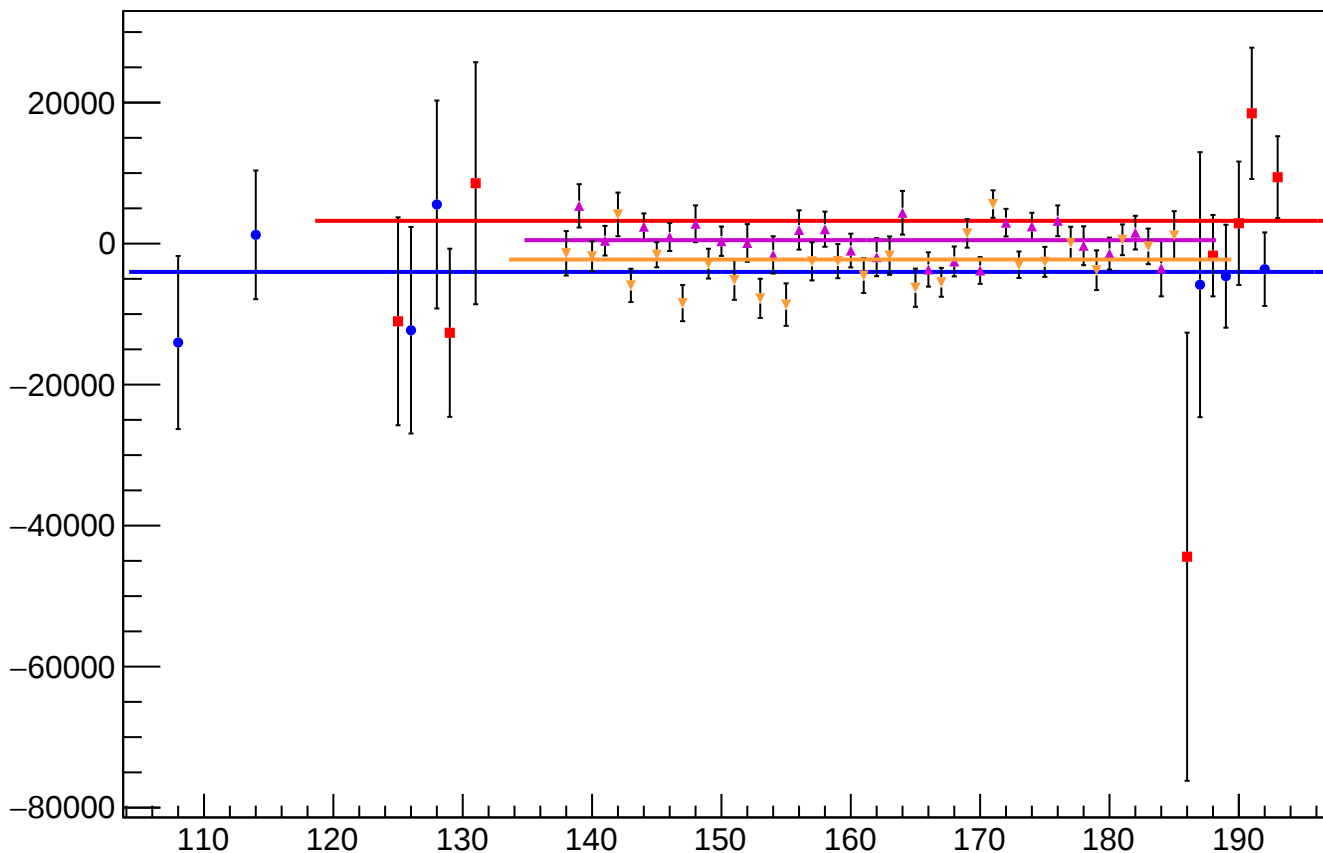
Right: 248.012 $\pm$ 0.043 χ^2 /NDF: 2187617.0/43

In: 259.172 $\pm$ 0.037 χ^2 /NDF: 1379074.3/42

Out: 257.733 $\pm$ 0.035 χ^2 /NDF: 2149303.3/48

All: 258.419 $\pm$ 0.025 χ^2 /NDF: 3529175.7/91

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4017.947 ± 3404.787 $\chi^2/\text{NDF}: 1.8/6$

Left Out: -2260.196 ± 475.336 $\chi^2/\text{NDF}: 52.3/24$

Right Out: 3227.998 ± 3159.002 $\chi^2/\text{NDF}: 9.6/7$

Left In: 485.590 ± 487.465 $\chi^2/\text{NDF}: 24.8/22$

Left: -921.890 ± 340.321 $\chi^2/\text{NDF}: 93.4/47$

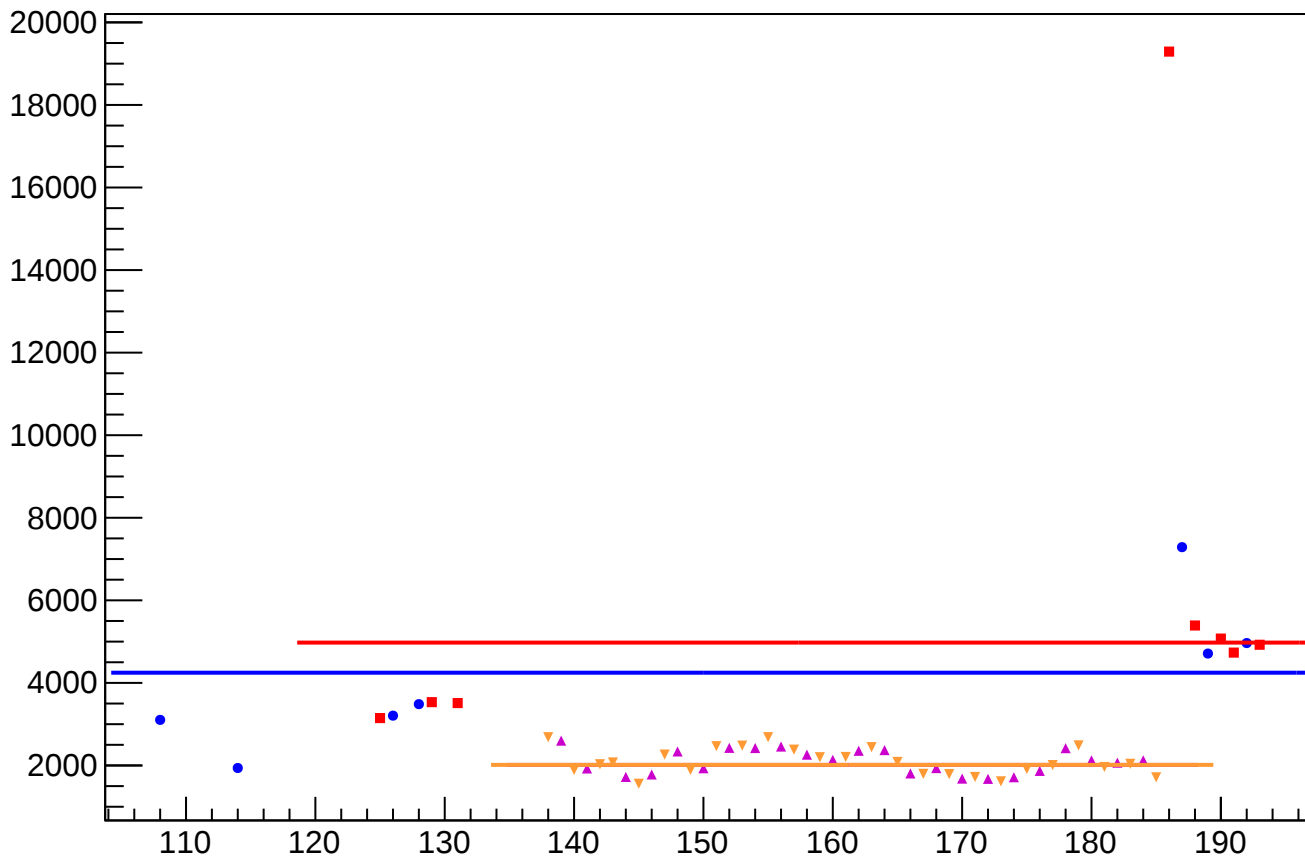
Right: -124.026 ± 2315.773 $\chi^2/\text{NDF}: 13.8/14$

In: 395.131 ± 482.545 $\chi^2/\text{NDF}: 28.2/29$

Out: -2138.688 ± 470.044 $\chi^2/\text{NDF}: 64.9/32$

All: -905.024 ± 336.704 $\chi^2/\text{NDF}: 107.3/62$

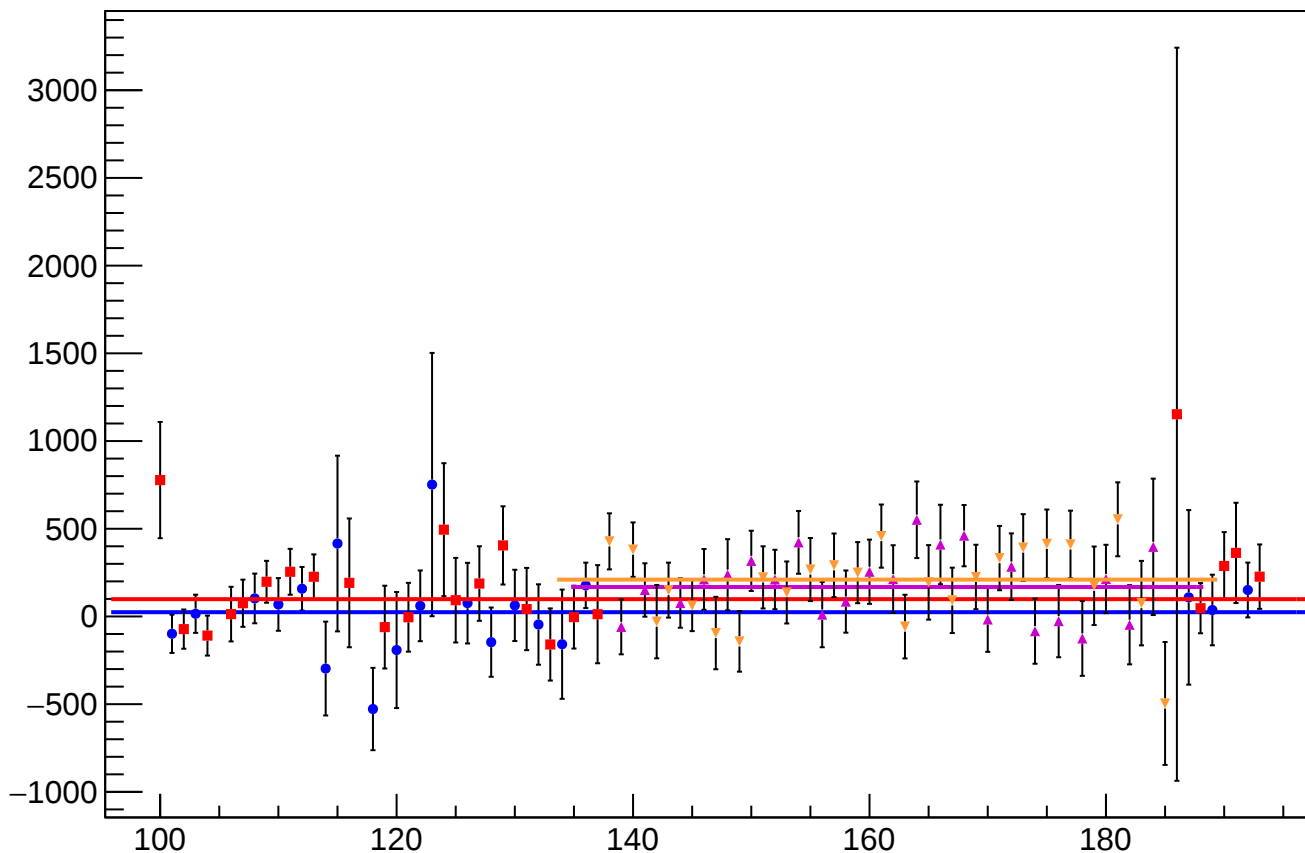
asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4247.012 $\pm$ 2.408 χ^2 /NDF: 259241.8/6
 Left Out: 2014.106 $\pm$ 0.336 χ^2 /NDF: 835656.9/24
 Right Out: 4976.291 $\pm$ 2.234 χ^2 /NDF: 492398.8/7
 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: 4638.922 $\pm$ 1.637 χ^2 /NDF: 800950.0/14
 In: 2058.113 $\pm$ 0.341 χ^2 /NDF: 1764875.2/29
 Out: 2079.688 $\pm$ 0.332 χ^2 /NDF: 3047671.4/32
 All: 2069.184 $\pm$ 0.238 χ^2 /NDF: 4814598.2/62

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 24.329+/-39.939 χ^2/NDF : 15.2/19

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 98.617+/-35.943 χ^2/NDF : 22.0/23

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

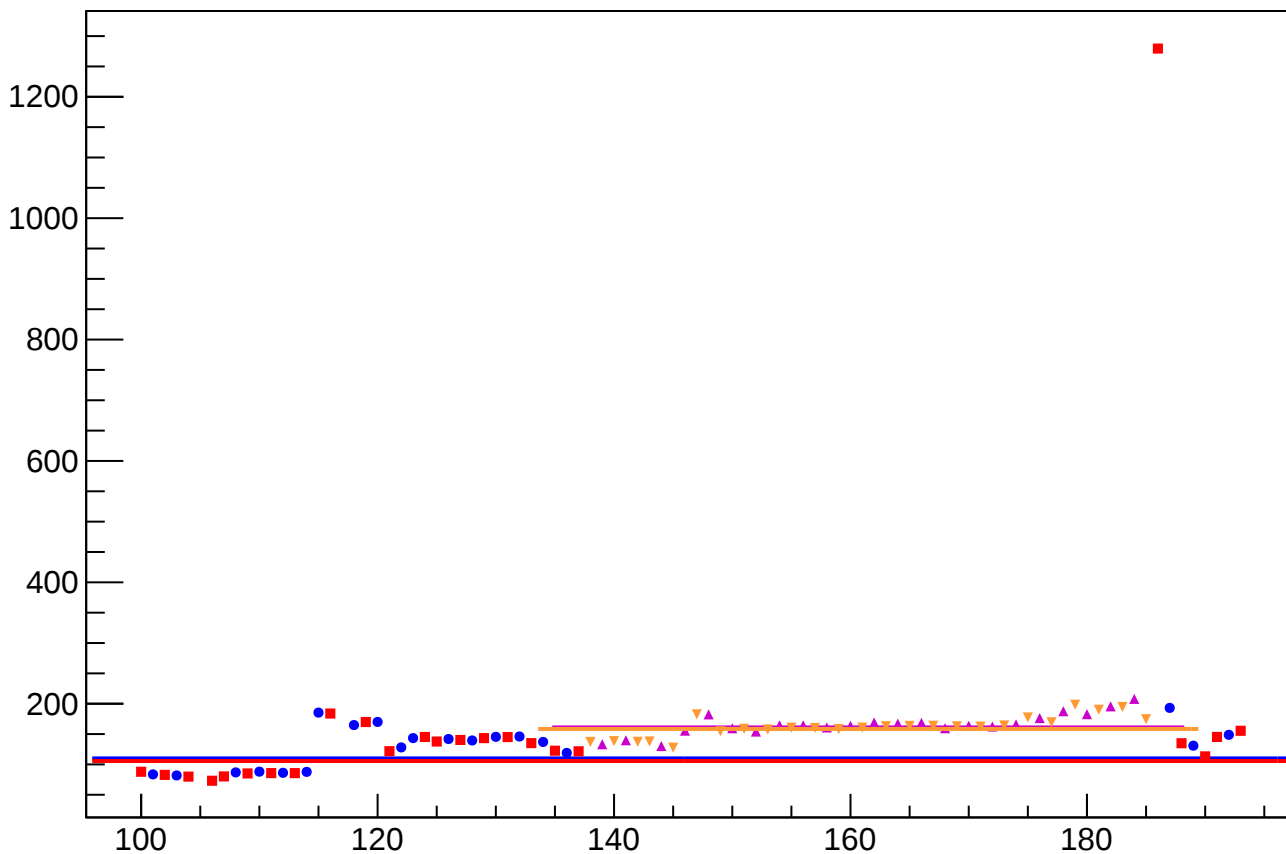
Right: 65.374+/-26.717 χ^2/NDF : 39.1/43

In: 98.303+/-27.799 χ^2/NDF : 43.0/42

Out: 152.596+/-25.813 χ^2/NDF : 54.2/48

All: 127.459+/-18.916 χ^2/NDF : 99.2/91

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 109.862 $\pm$ 0.028 χ^2 /NDF: 1093386.3/19

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 105.592 $\pm$ 0.025 χ^2 /NDF: 1950326.4/23

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

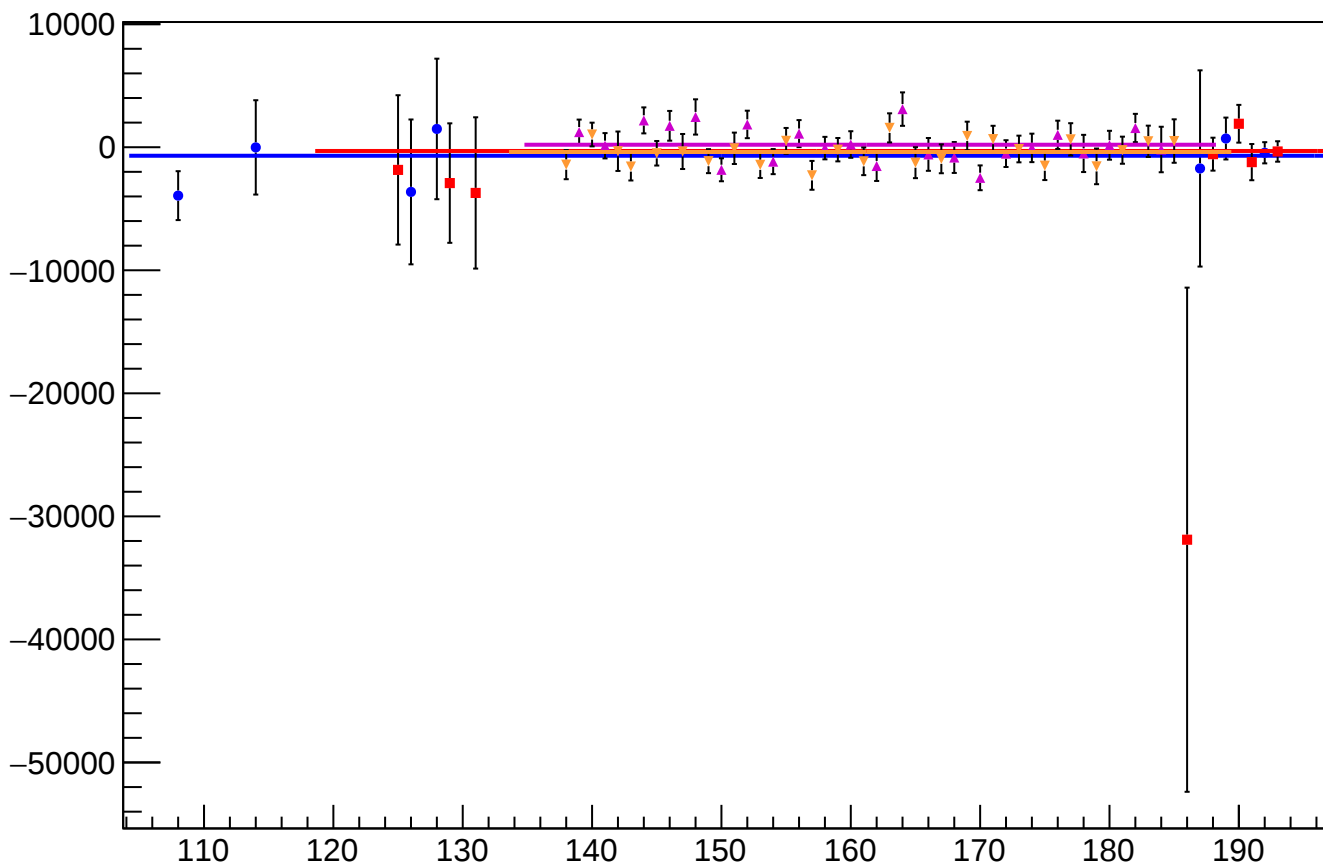
Right: 107.503 $\pm$ 0.019 χ^2 /NDF: 3056345.4/43

In: 136.198 $\pm$ 0.020 χ^2 /NDF: 3159922.2/42

Out: 131.184 $\pm$ 0.018 χ^2 /NDF: 4478431.1/48

All: 133.505 $\pm$ 0.013 χ^2 /NDF: 7673289.1/91

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -692.630+/-691.607 χ^2/NDF : 3.9/6

Left Out: -385.018+/-231.833 χ^2/NDF :18.1/24

Right Out: -304.550+/-577.958 χ^2/NDF : 5.5/7

Left In: 202.234+/-237.460 χ^2/NDF :35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

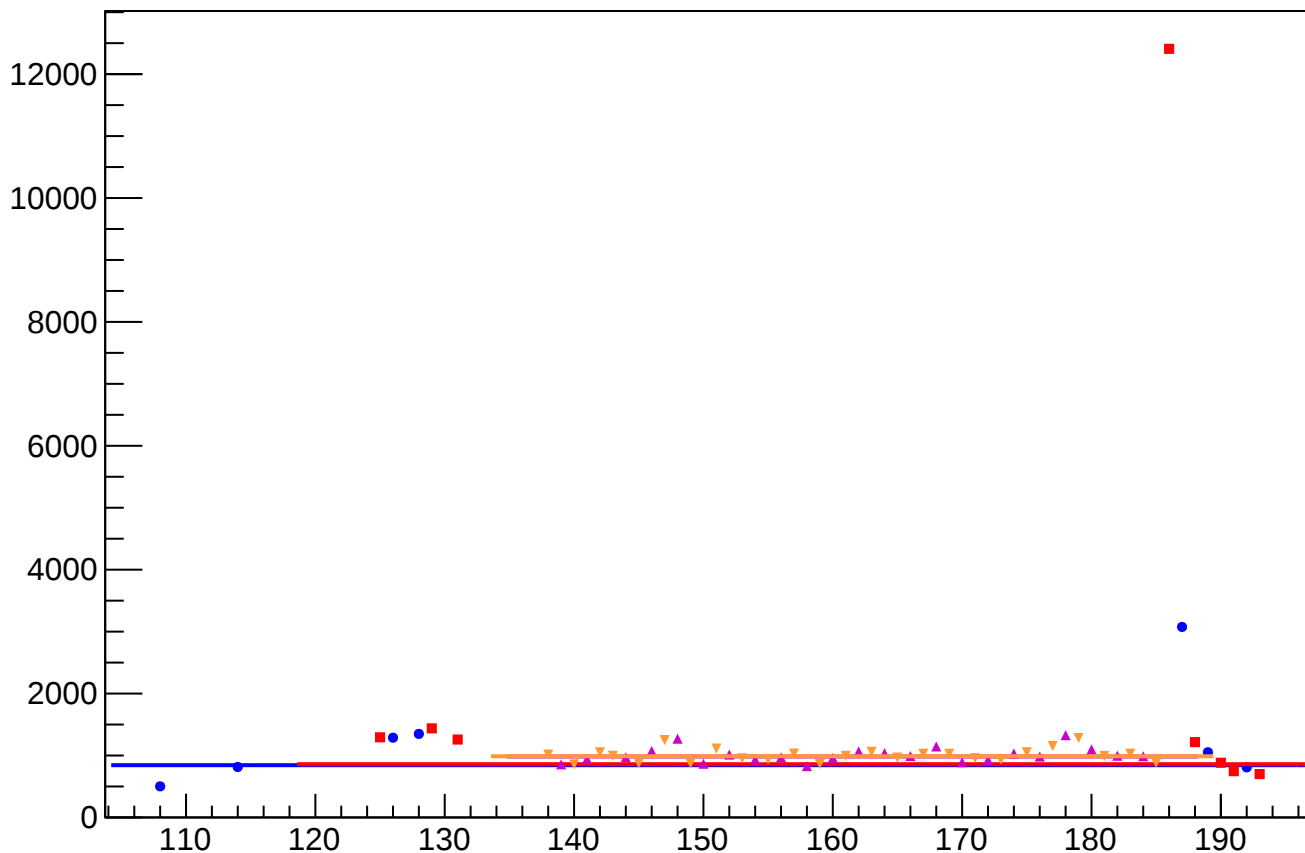
Right: -464.126+/-443.489 χ^2/NDF : 9.6/14

In: 107.867+/-224.590 χ^2/NDF :40.8/29

Out: -373.865+/-215.168 χ^2/NDF :23.6/32

All: -143.316+/-155.371 χ^2/NDF : 66.8/62

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 843.821+/-0.489 χ^2/NDF : 276509.4/6

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 859.755+/-0.409 χ^2/NDF : 910340.0/7

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

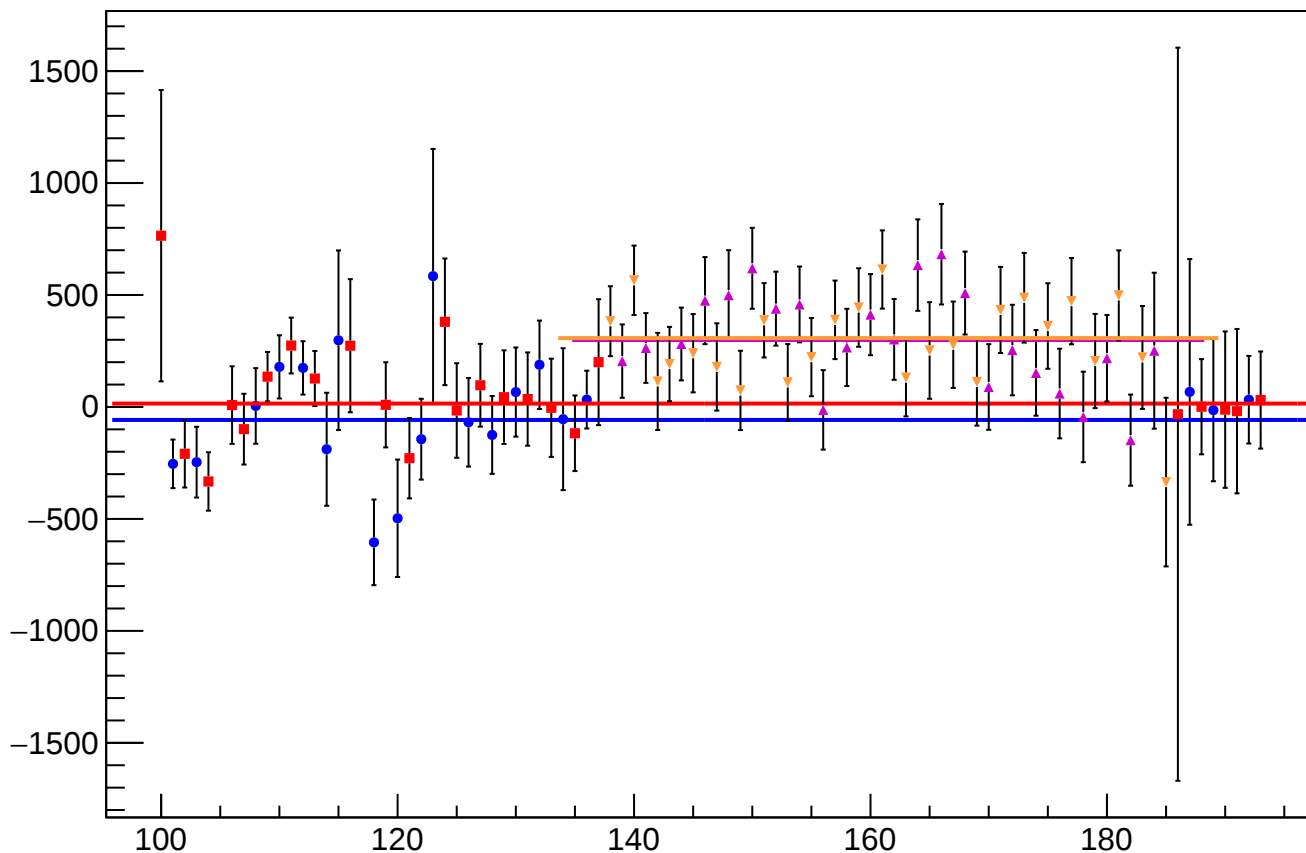
Right: 853.203+/-0.314 χ^2/NDF : 1187474.5/14

In: 969.122+/-0.159 χ^2/NDF : 766161.9/29

Out: 970.112+/-0.152 χ^2/NDF : 1371949.6/32

All: 969.638+/-0.110 χ^2/NDF : 2138131.8/62

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -57.976 $\pm$ 40.934 χ^2/NDF : 27.9/19

Left Out: 307.487 $\pm$ 37.278 χ^2/NDF :20.7/24

Right Out: 15.127 $\pm$ 37.816 χ^2/NDF : 23.1/23

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

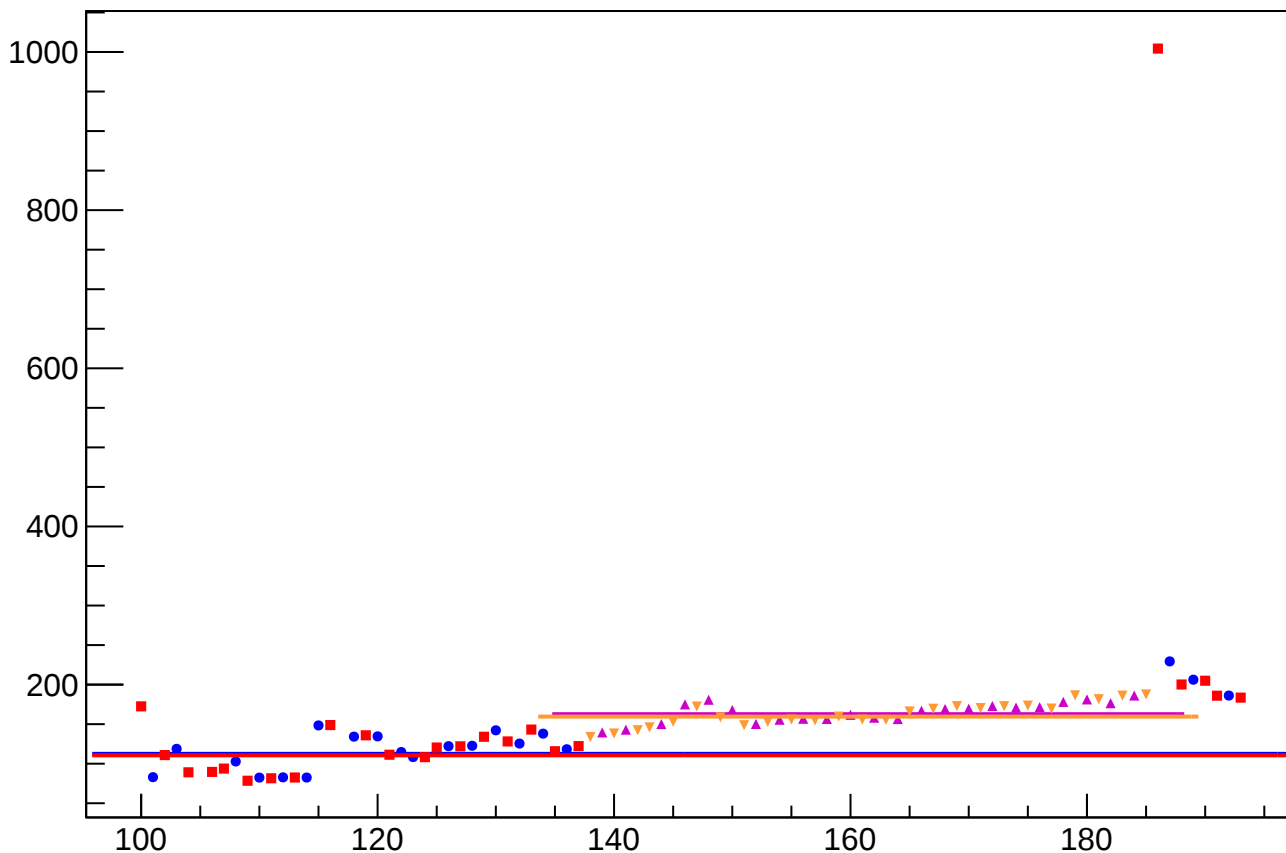
Right: -18.535 $\pm$ 27.777 χ^2/NDF : 52.7/43

In: 129.205 $\pm$ 28.240 χ^2/NDF :96.3/42

Out: 163.405 $\pm$ 26.548 χ^2/NDF :74.1/48

All: 147.360 $\pm$ 19.343 χ^2/NDF : 171.2/91

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 112.445 $\pm$ 0.029 χ^2 /NDF: 1075365.0/19

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 110.577 $\pm$ 0.027 χ^2 /NDF: 2083475.0/23

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

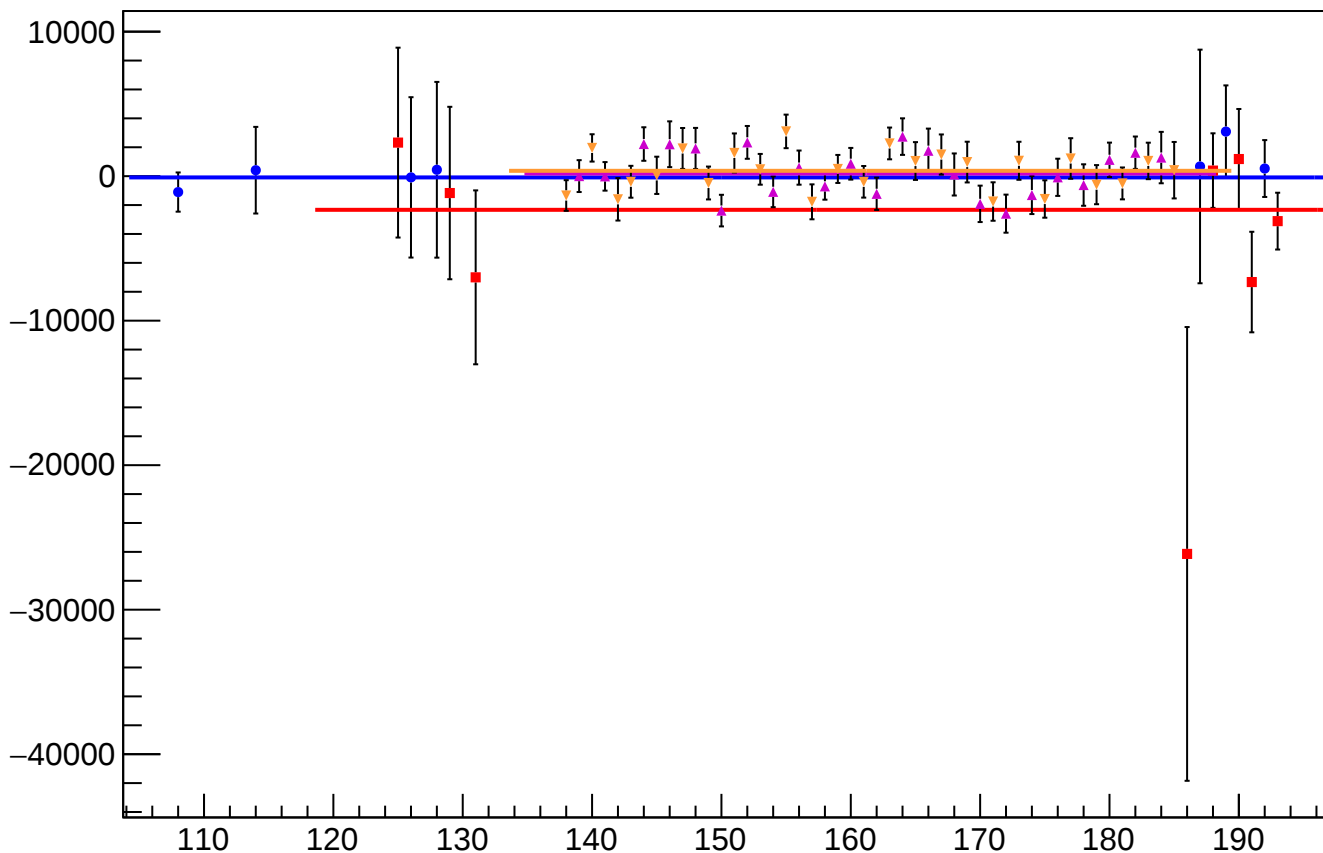
Right: 111.437 $\pm$ 0.020 χ^2 /NDF: 3161086.3/43

In: 138.733 $\pm$ 0.020 χ^2 /NDF:2848829.7/42

Out: 135.424 $\pm$ 0.019 χ^2 /NDF:4073612.2/48

All: 136.977 $\pm$ 0.014 χ^2 /NDF: 6937016.2/91

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -86.985+/-959.754 χ^2/NDF : 1.7/6

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -2329.215+/-1232.705 χ^2/NDF : 7.8/7

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

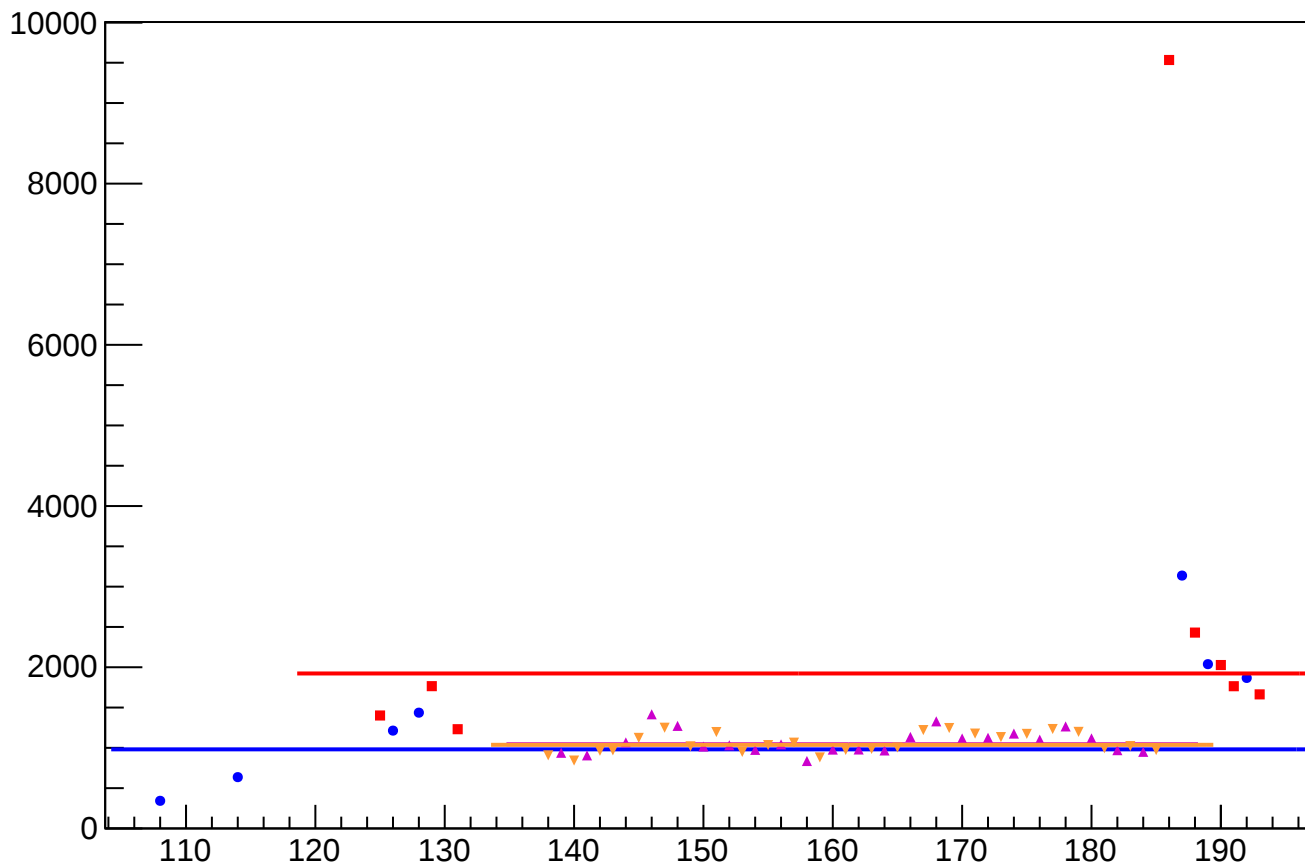
Right: -933.213+/-757.291 χ^2/NDF : 11.5/14

In: 165.654+/-243.972 χ^2/NDF :38.2/29

Out: 268.618+/-238.903 χ^2/NDF :42.9/32

All: 218.217+/-170.694 χ^2/NDF : 81.2/62

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 981.333+/-0.679 χ^2/NDF : 1250521.5/6

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1922.805+/-0.872 χ^2/NDF : 628494.9/7

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

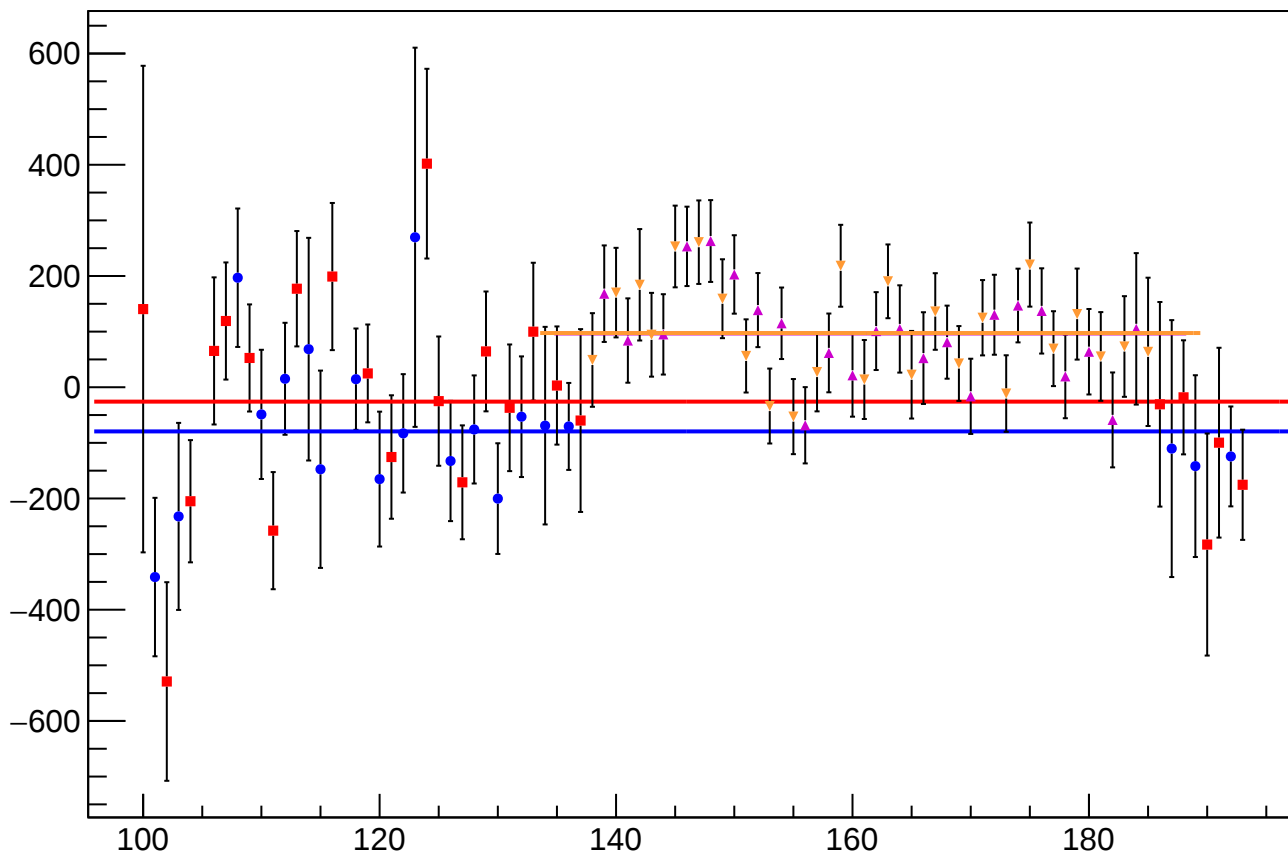
Right: 1336.649+/-0.535 χ^2/NDF : 2605343.4/14

In: 1040.648+/-0.173 χ^2/NDF : 1802003.8/29

Out: 1070.934+/-0.169 χ^2/NDF : 2115872.7/32

All: 1056.109+/-0.121 χ^2/NDF : 3933610.2/62

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -79.417 $\pm$ 26.565 χ^2/NDF : 15.6/19

Left Out: 97.445 $\pm$ 14.880 χ^2/NDF : 36.0/24

Right Out: -25.875 $\pm$ 24.477 χ^2/NDF : 40.8/23

Left In: 96.704 $\pm$ 15.369 χ^2/NDF : 29.2/22

Left: 97.087 $\pm$ 10.690 χ^2/NDF : 65.2/47

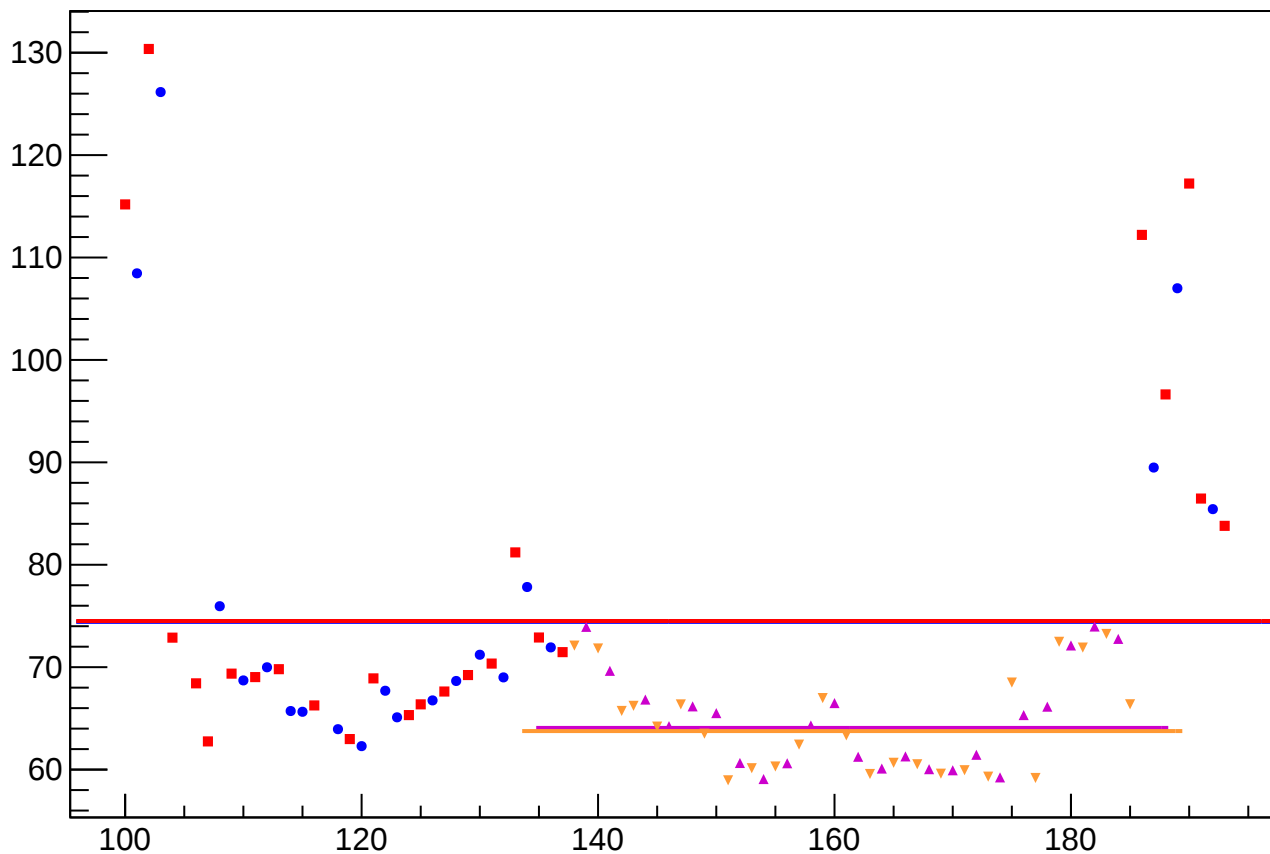
Right: -50.460 $\pm$ 18.001 χ^2/NDF : 58.6/43

In: 52.535 $\pm$ 13.303 χ^2/NDF : 77.7/42

Out: 64.170 $\pm$ 12.715 χ^2/NDF : 95.3/48

All: 58.616 $\pm$ 9.192 χ^2/NDF : 173.5/91

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 74.425 $\pm$ 0.019 χ^2 /NDF: 522111.6/19

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 74.508 $\pm$ 0.017 χ^2 /NDF: 640298.9/23

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

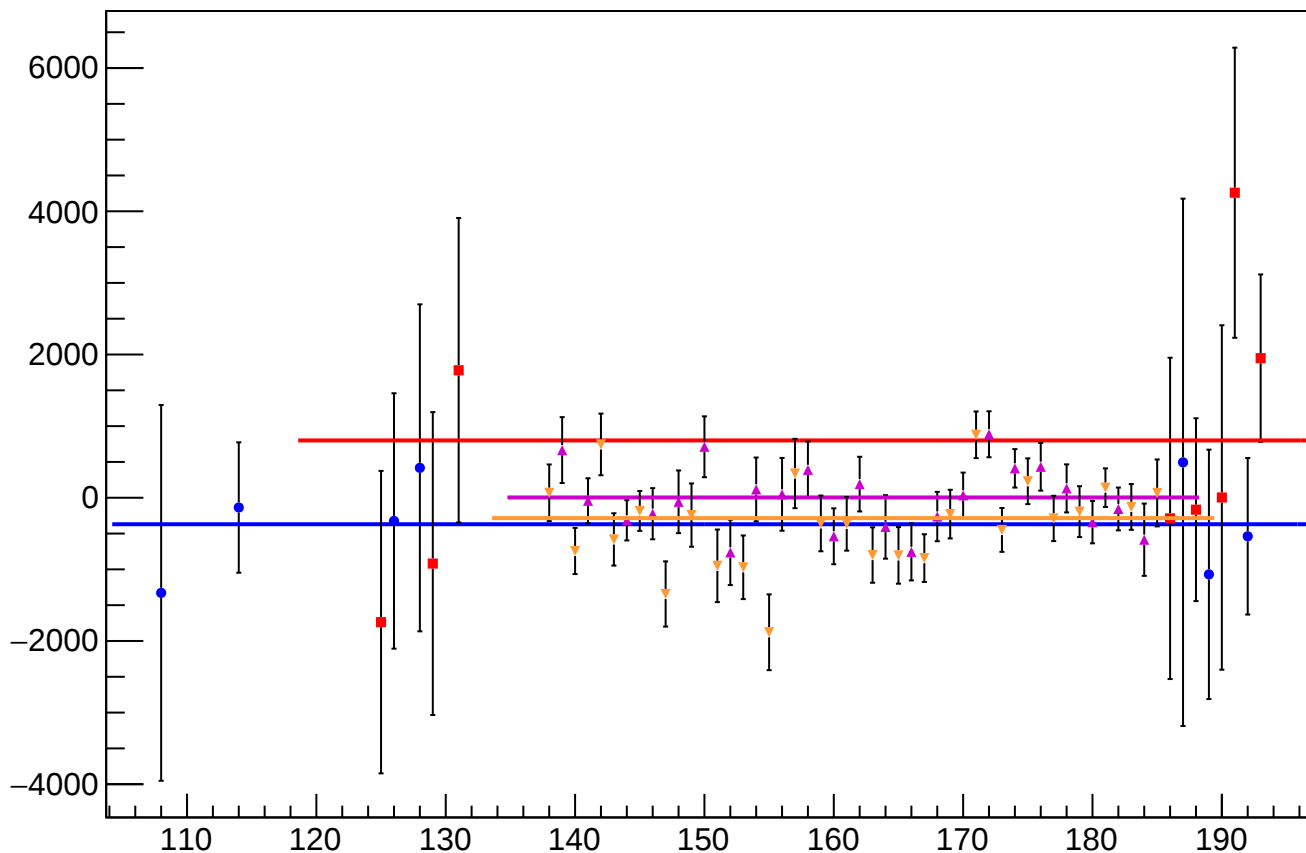
Right: 74.470 $\pm$ 0.013 χ^2 /NDF: 1162421.2/43

In: 66.666 $\pm$ 0.009 χ^2 /NDF: 914498.3/42

Out: 66.661 $\pm$ 0.009 χ^2 /NDF: 1114613.3/48

All: 66.663 $\pm$ 0.006 χ^2 /NDF: 2029111.7/91

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -369.942 ± 568.106 χ^2/NDF : 0.6/6

Left Out: -284.304 ± 72.732 χ^2/NDF : 55.1/24

Right Out: 800.423 ± 616.582 χ^2/NDF : 7.1/7

Left In: 4.037 ± 75.084 χ^2/NDF : 32.4/22

Left: -144.720 ± 52.241 χ^2/NDF : 95.0/47

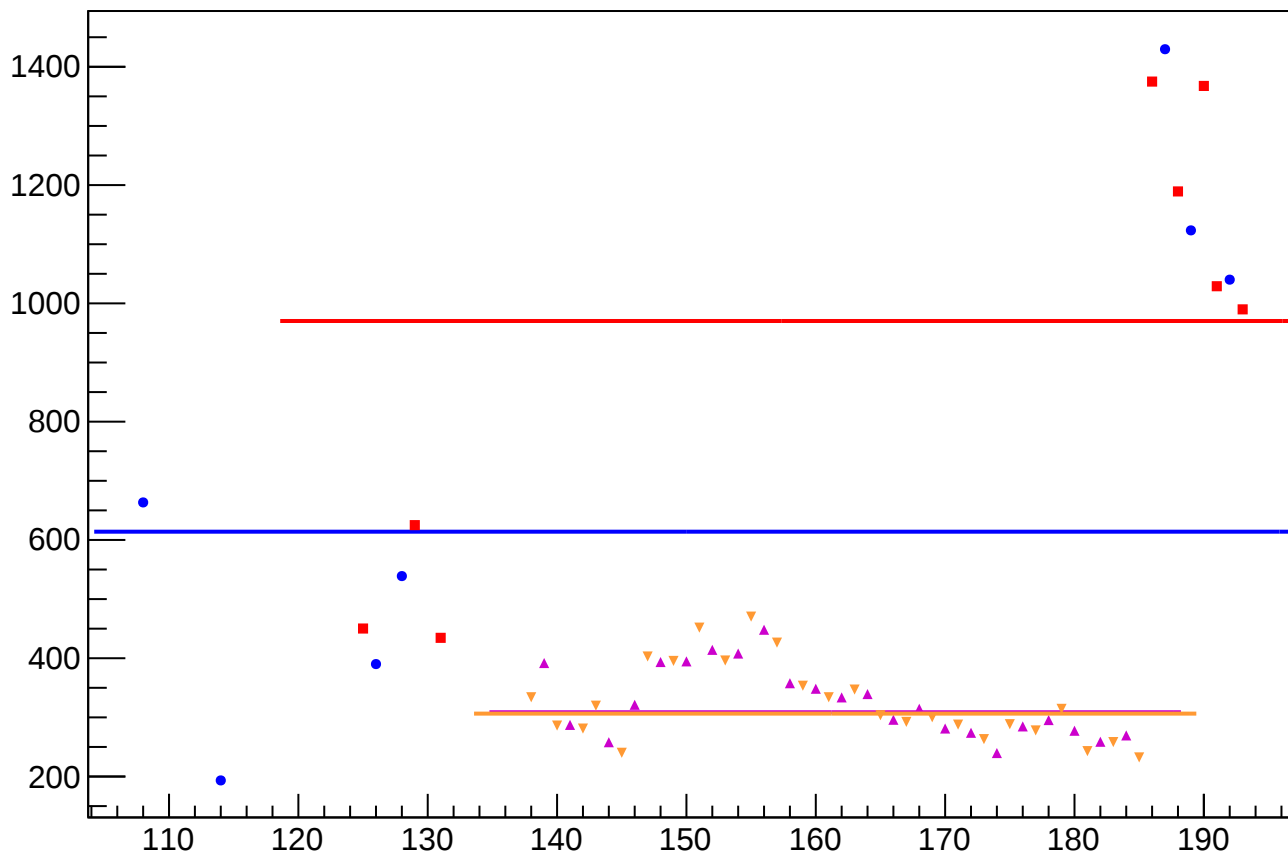
Right: 167.431 ± 417.799 χ^2/NDF : 9.6/14

In: -2.384 ± 74.437 χ^2/NDF : 33.3/29

Out: -269.417 ± 72.232 χ^2/NDF : 65.2/32

All: -139.915 ± 51.838 χ^2/NDF : 105.2/62

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 613.972+/-0.402 χ^2/NDF : 1034442.9/6

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 970.211+/-0.436 χ^2/NDF : 482458.5/7

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

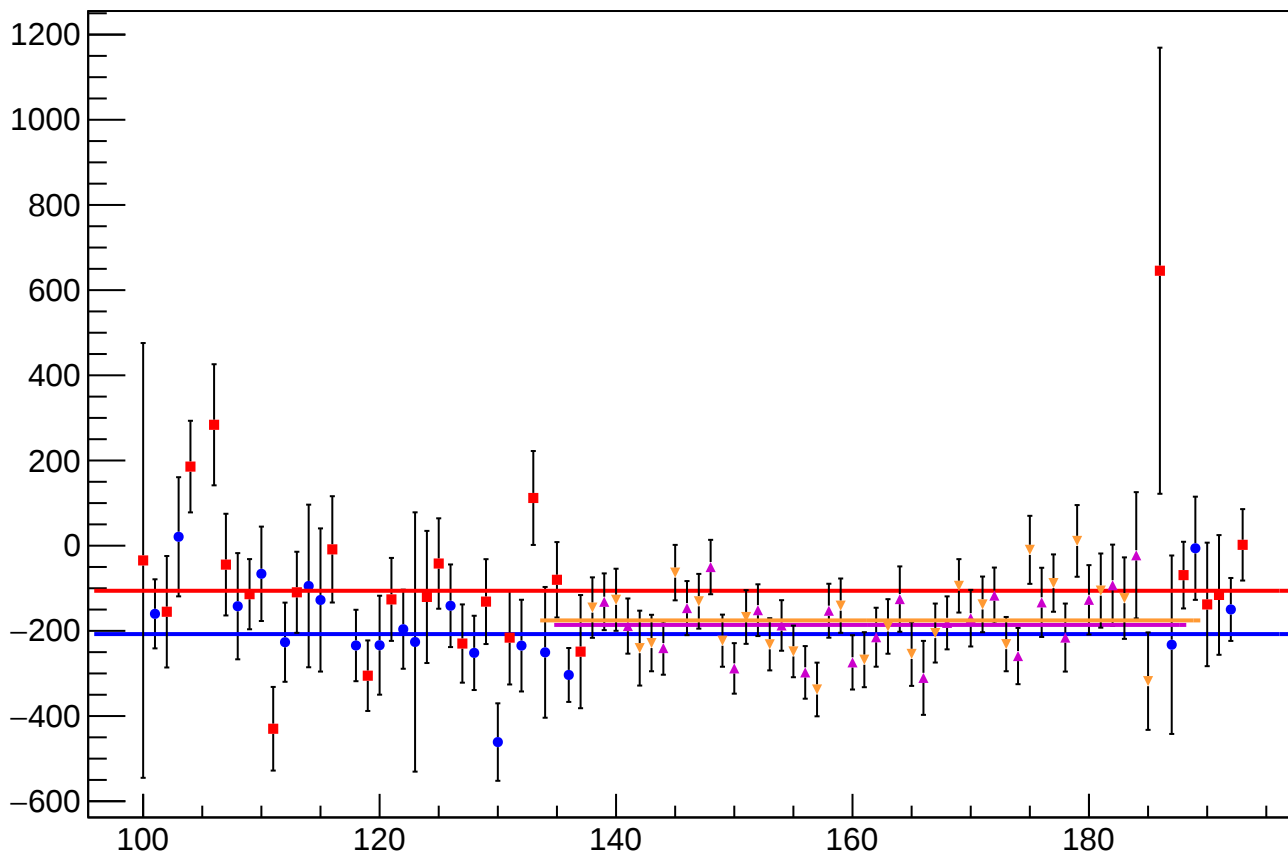
Right: 777.539+/-0.295 χ^2/NDF : 1877986.3/14

In: 313.967+/-0.053 χ^2/NDF : 2604868.3/29

Out: 315.473+/-0.051 χ^2/NDF : 3984701.8/32

All: 314.743+/-0.037 χ^2/NDF : 6589991.9/62

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -207.572 ± 23.053 $\chi^2/\text{NDF}: 20.0/19$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -105.888 ± 22.081 $\chi^2/\text{NDF}: 45.0/23$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

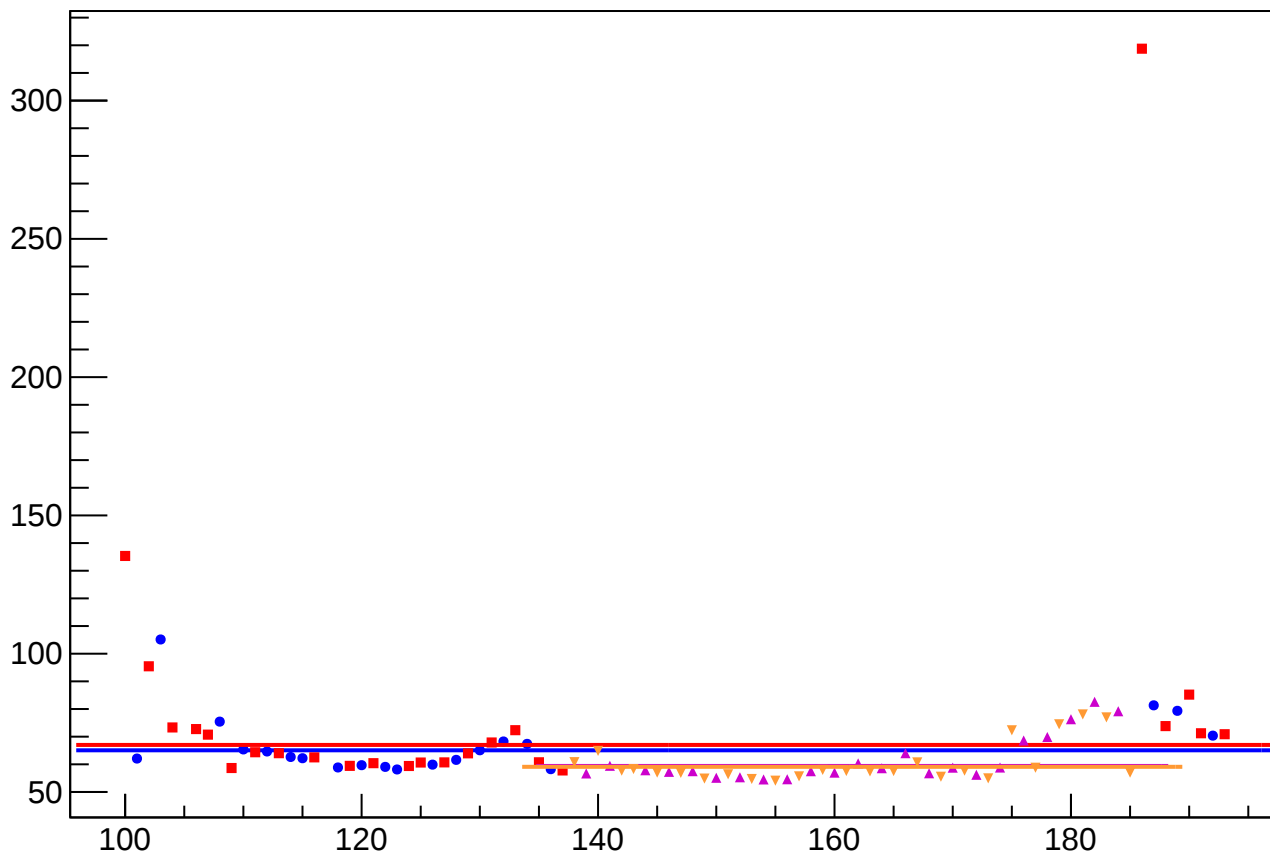
Right: -154.541 ± 15.946 $\chi^2/\text{NDF}: 75.2/43$

In: -192.038 ± 12.161 $\chi^2/\text{NDF}: 44.2/42$

Out: -155.834 ± 11.730 $\chi^2/\text{NDF}: 86.8/48$

All: -173.283 ± 8.443 $\chi^2/\text{NDF}: 135.6/91$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 65.068 $\pm$ 0.016 χ^2 /NDF: 290688.3/19

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 67.013 $\pm$ 0.016 χ^2 /NDF: 757481.7/23

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

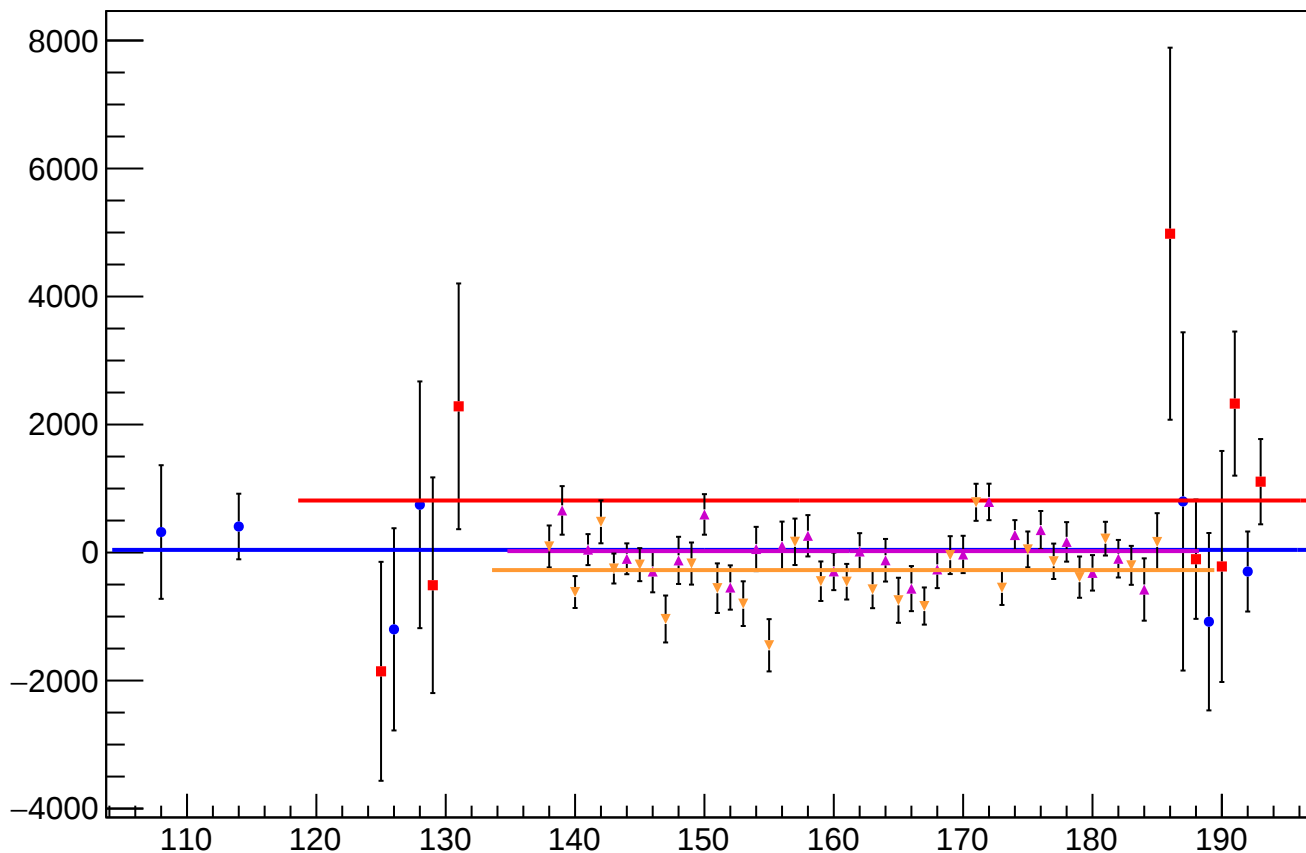
Right: 66.083 $\pm$ 0.011 χ^2 /NDF: 1055596.2/43

In: 60.985 $\pm$ 0.009 χ^2 /NDF: 750681.1/42

Out: 61.333 $\pm$ 0.008 χ^2 /NDF: 1311673.8/48

All: 61.165 $\pm$ 0.006 χ^2 /NDF: 2063202.8/91

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 41.581 ± 340.629 $\chi^2/\text{NDF}: 2.4/6$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 813.090 ± 423.140 $\chi^2/\text{NDF}: 9.0/7$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

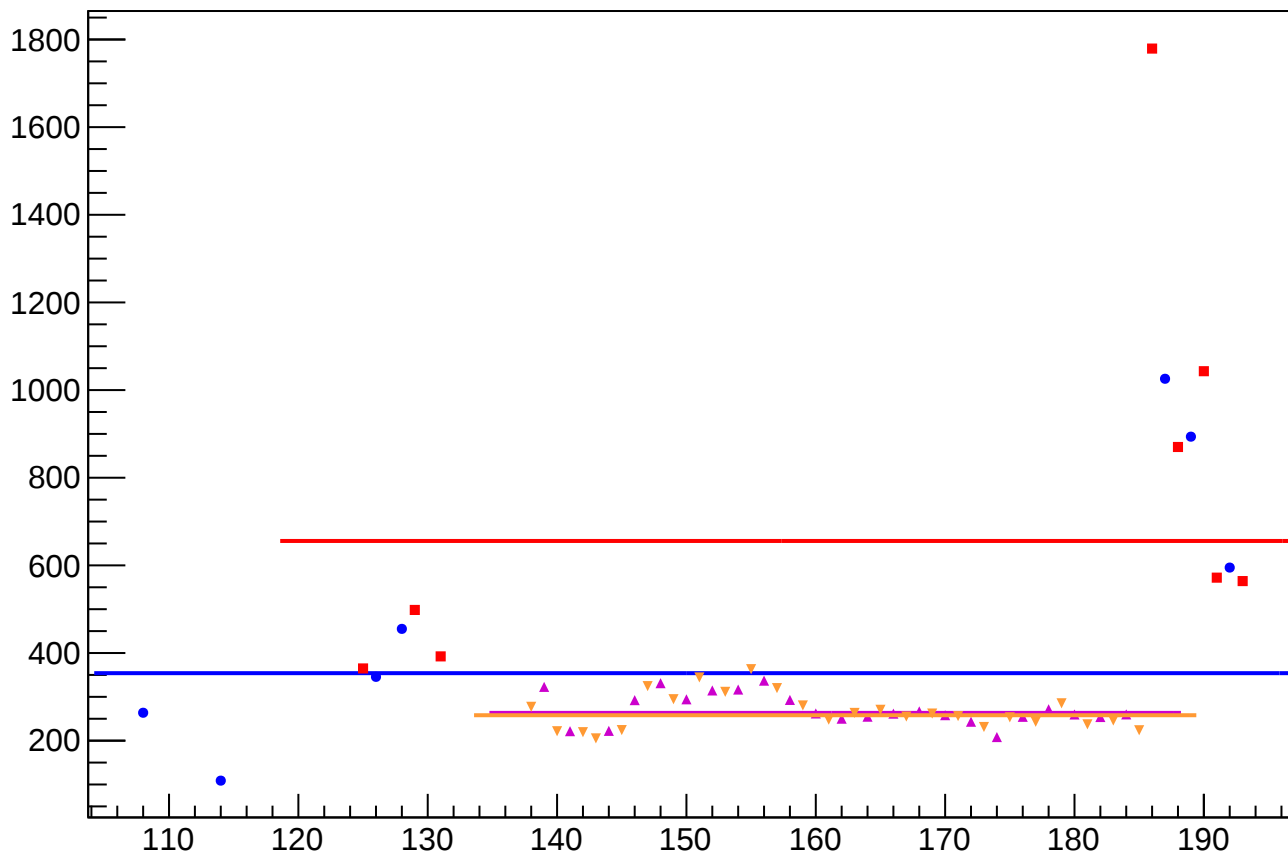
Right: 344.949 ± 265.338 $\chi^2/\text{NDF}: 13.4/14$

In: 23.270 ± 62.560 $\chi^2/\text{NDF}: 31.3/29$

Out: -252.099 ± 60.181 $\chi^2/\text{NDF}: 69.4/32$

All: -119.751 ± 43.371 $\chi^2/\text{NDF}: 110.7/62$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 354.026+/-0.241 χ^2/NDF : 1208291.4/6

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 655.703+/-0.299 χ^2/NDF : 658688.6/7

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

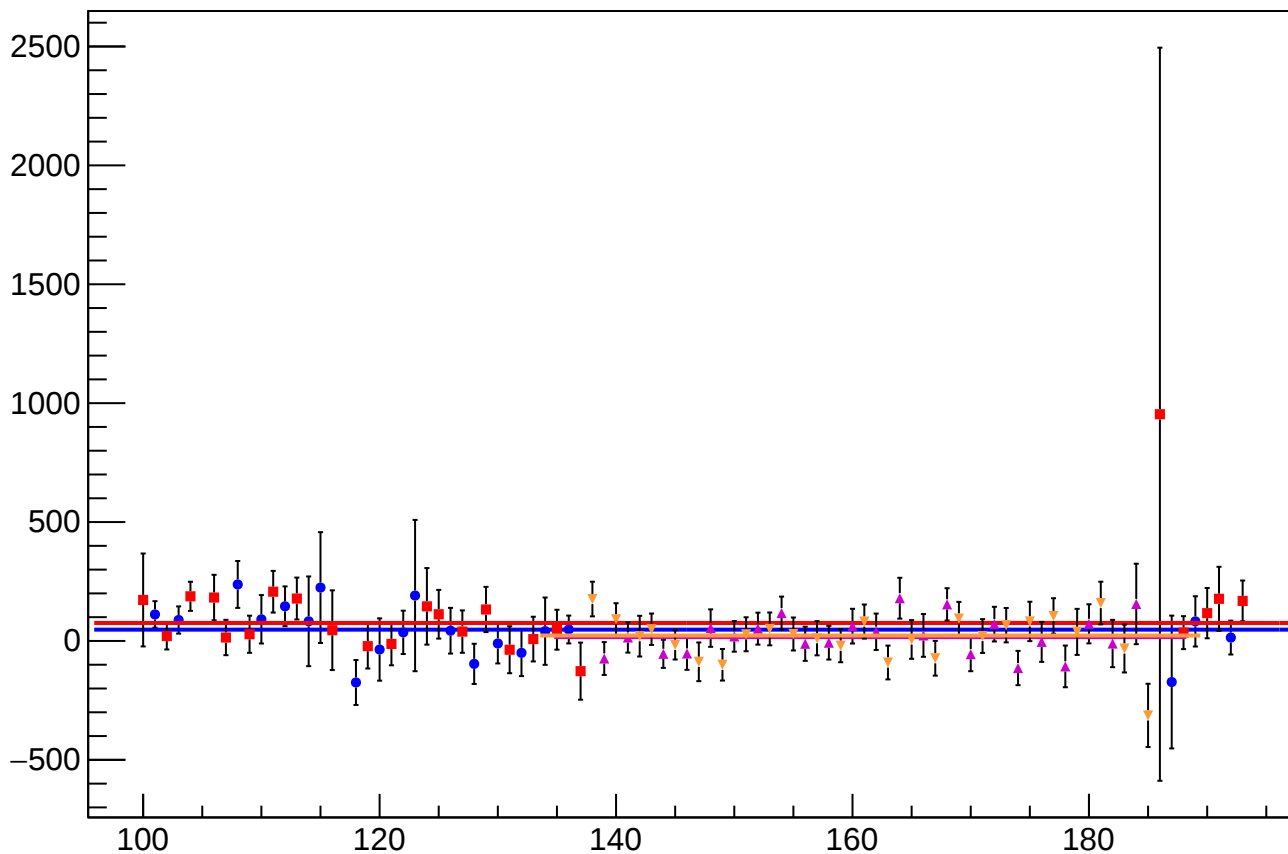
Right: 472.650+/-0.188 χ^2/NDF : 2483834.0/14

In: 266.454+/-0.044 χ^2/NDF : 1930697.8/29

Out: 266.084+/-0.043 χ^2/NDF : 3114197.7/32

All: 266.262+/-0.031 χ^2/NDF : 5044931.8/62

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 47.547 $\pm$ 20.189 χ^2 /NDF: 19.2/19

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 75.548 $\pm$ 18.631 χ^2 /NDF: 20.7/23

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

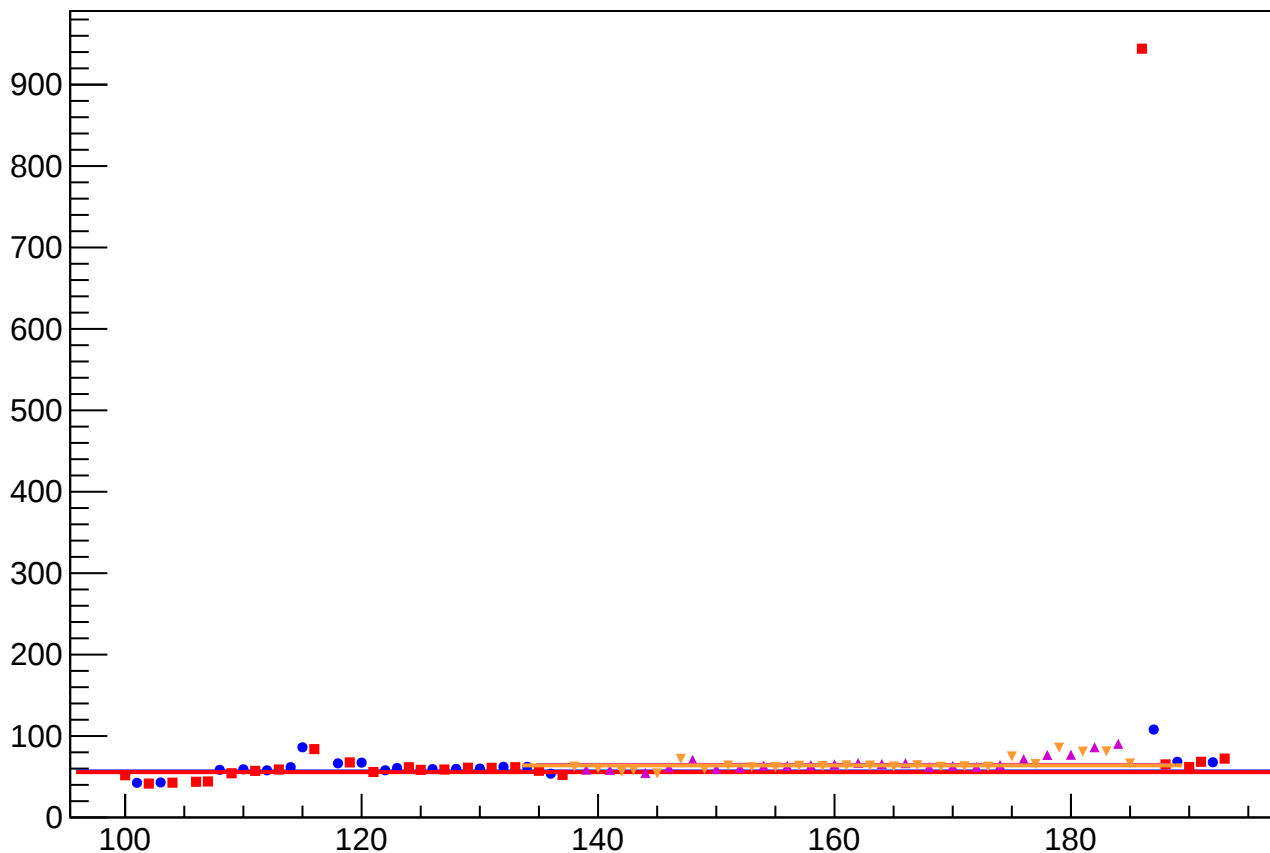
Right: 62.670 $\pm$ 13.692 χ^2 /NDF: 40.9/43

In: 27.853 $\pm$ 12.310 χ^2 /NDF:44.0/42

Out: 43.534 $\pm$ 11.669 χ^2 /NDF:54.6/48

All: 36.112 $\pm$ 8.469 χ^2 /NDF: 99.4/91

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 56.478 $\pm$ 0.014 χ^2 /NDF: 477466.3/19

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 55.675 $\pm$ 0.013 χ^2 /NDF: 1218614.7/23

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

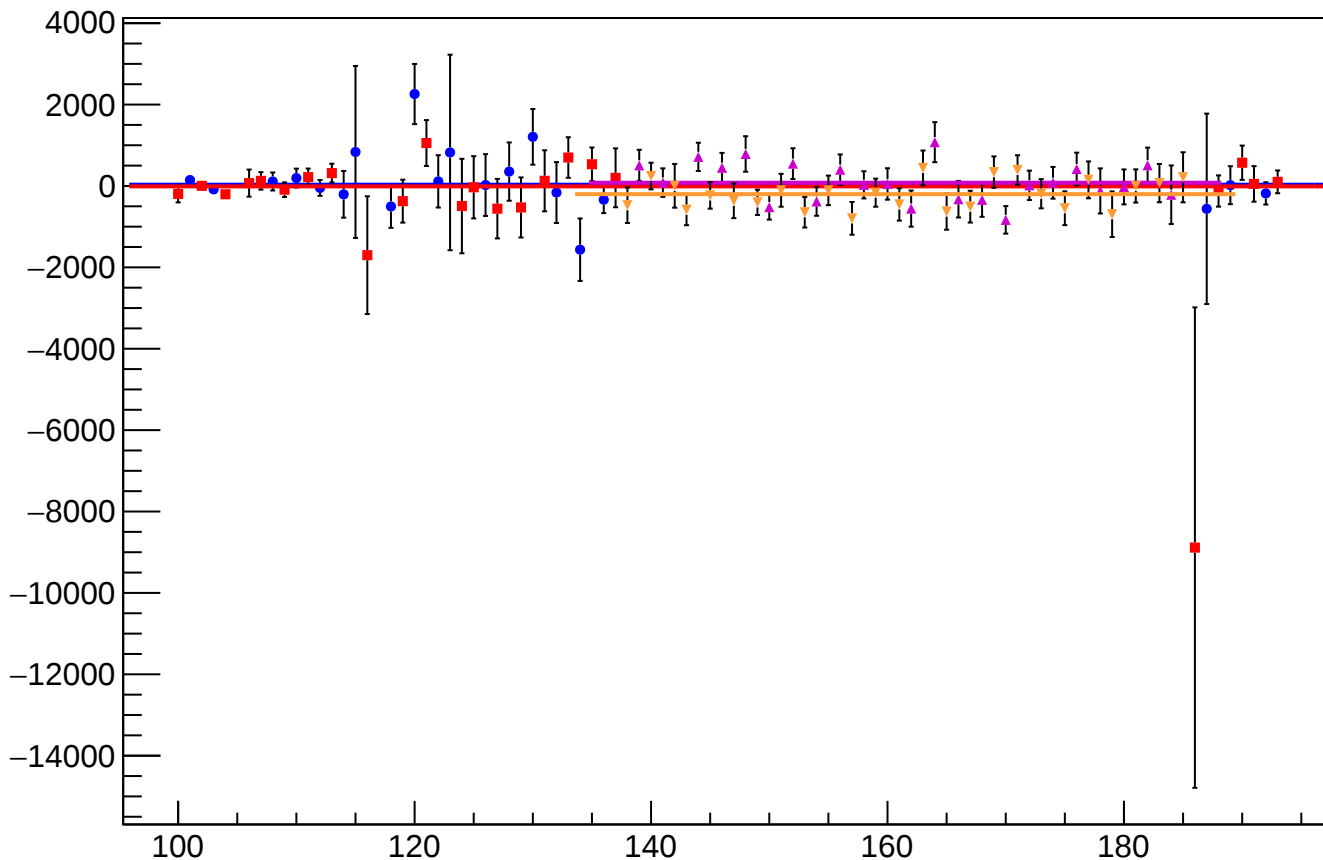
Right: 56.044 $\pm$ 0.010 χ^2 /NDF: 1697787.9/43

In: 61.524 $\pm$ 0.009 χ^2 /NDF: 1046894.1/42

Out: 60.686 $\pm$ 0.008 χ^2 /NDF: 1852051.1/48

All: 61.083 $\pm$ 0.006 χ^2 /NDF: 2903833.9/91

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 30.963 ± 50.361 $\chi^2/\text{NDF}: 24.5/19$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: -10.112 ± 51.124 $\chi^2/\text{NDF}: 23.3/23$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

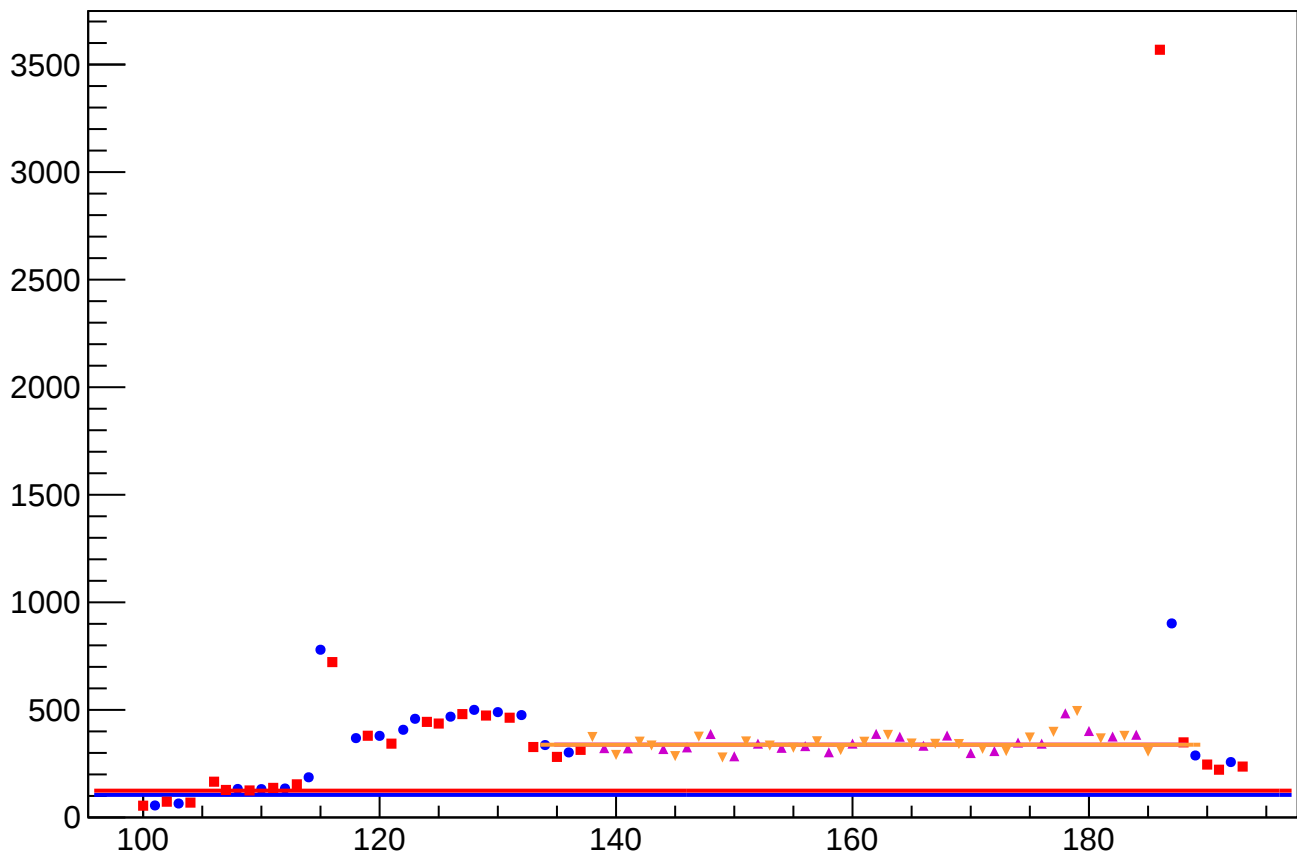
Right: 10.734 ± 35.877 $\chi^2/\text{NDF}: 48.1/43$

In: 44.441 ± 42.882 $\chi^2/\text{NDF}: 58.2/42$

Out: -65.933 ± 43.008 $\chi^2/\text{NDF}: 47.0/48$

All: -10.584 ± 30.367 $\chi^2/\text{NDF}: 108.5/91$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 104.947 $\pm$ 0.036 χ^2 /NDF: 7012108.5/19

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 124.575 $\pm$ 0.036 χ^2 /NDF: 7068468.6/23

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

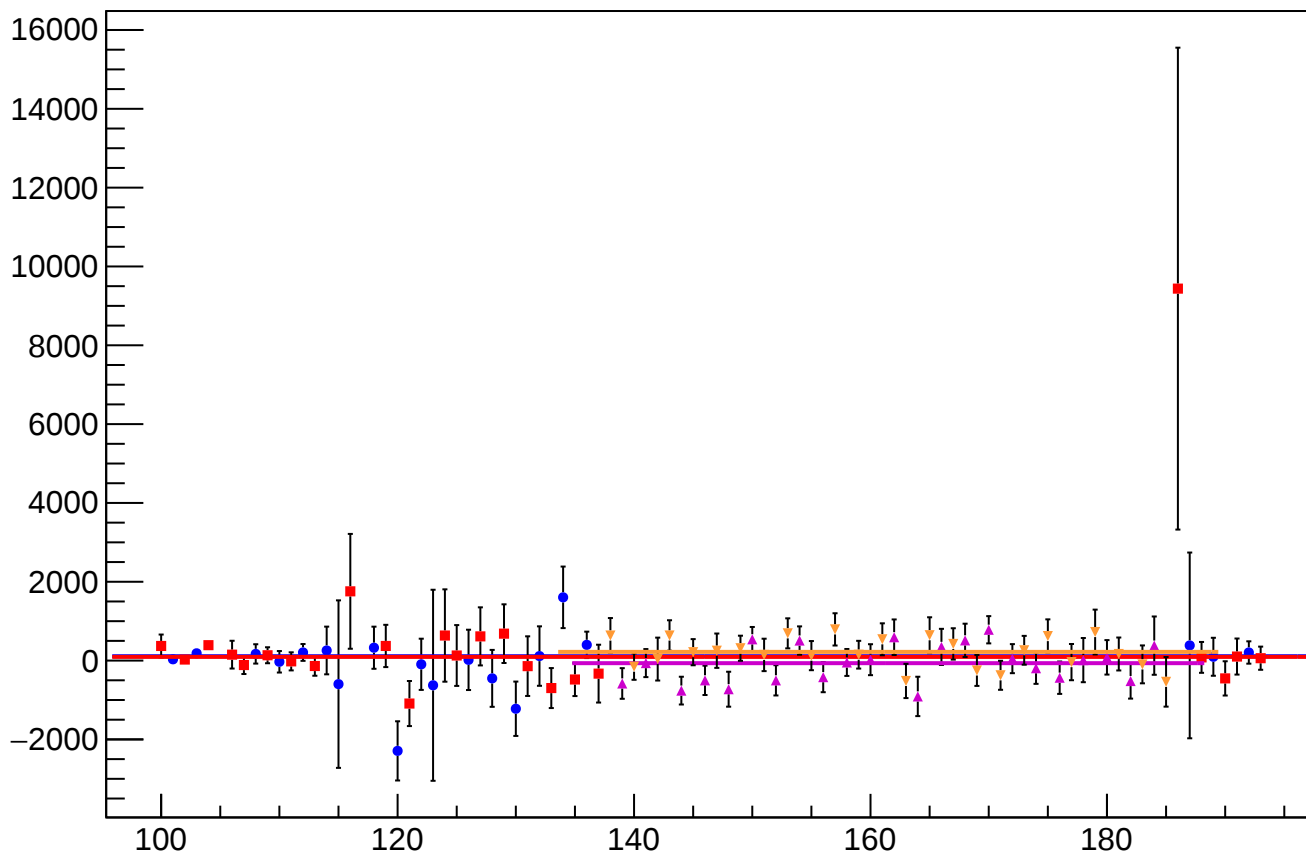
Right: 114.614 $\pm$ 0.025 χ^2 /NDF: 14230195.5/43

In: 169.179 $\pm$ 0.030 χ^2 /NDF: 19282552.9/42

Out: 186.997 $\pm$ 0.030 χ^2 /NDF: 17767793.1/48

All: 178.062 $\pm$ 0.021 χ^2 /NDF: 37222487.8/91

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 110.350 $\pm$ 61.154 χ^2 /NDF: 21.1/19

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 94.329 $\pm$ 57.926 χ^2 /NDF: 25.2/23

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

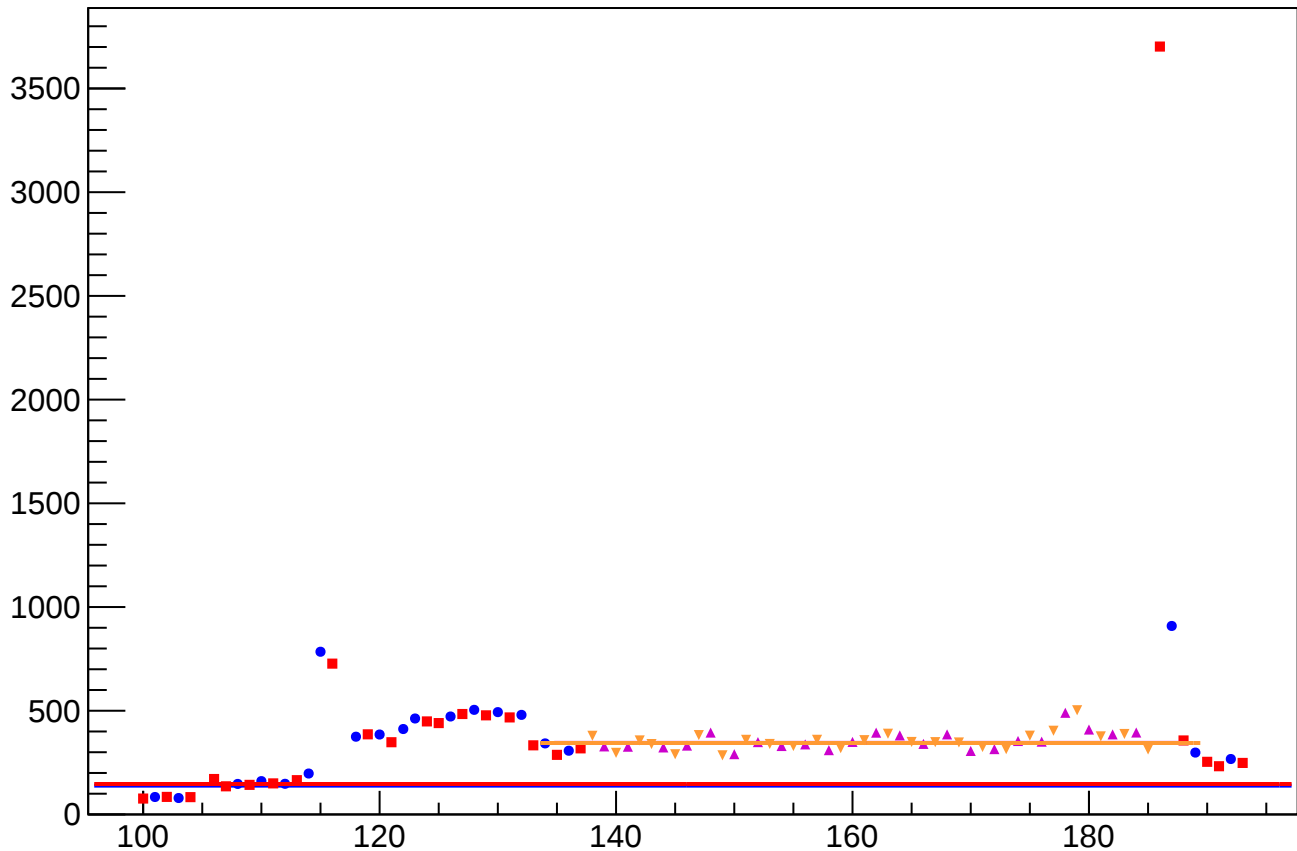
Right: 101.905 $\pm$ 42.055 χ^2 /NDF: 46.4/43

In: 48.780 $\pm$ 49.300 χ^2 /NDF:58.0/42

Out: 137.206 $\pm$ 47.121 χ^2 /NDF:46.5/48

All: 94.990 $\pm$ 34.064 χ^2 /NDF: 106.2/91

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 139.041+/-0.043 χ^2/NDF : 5646662.8/19

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 146.837+/-0.041 χ^2/NDF : 6127969.6/23

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

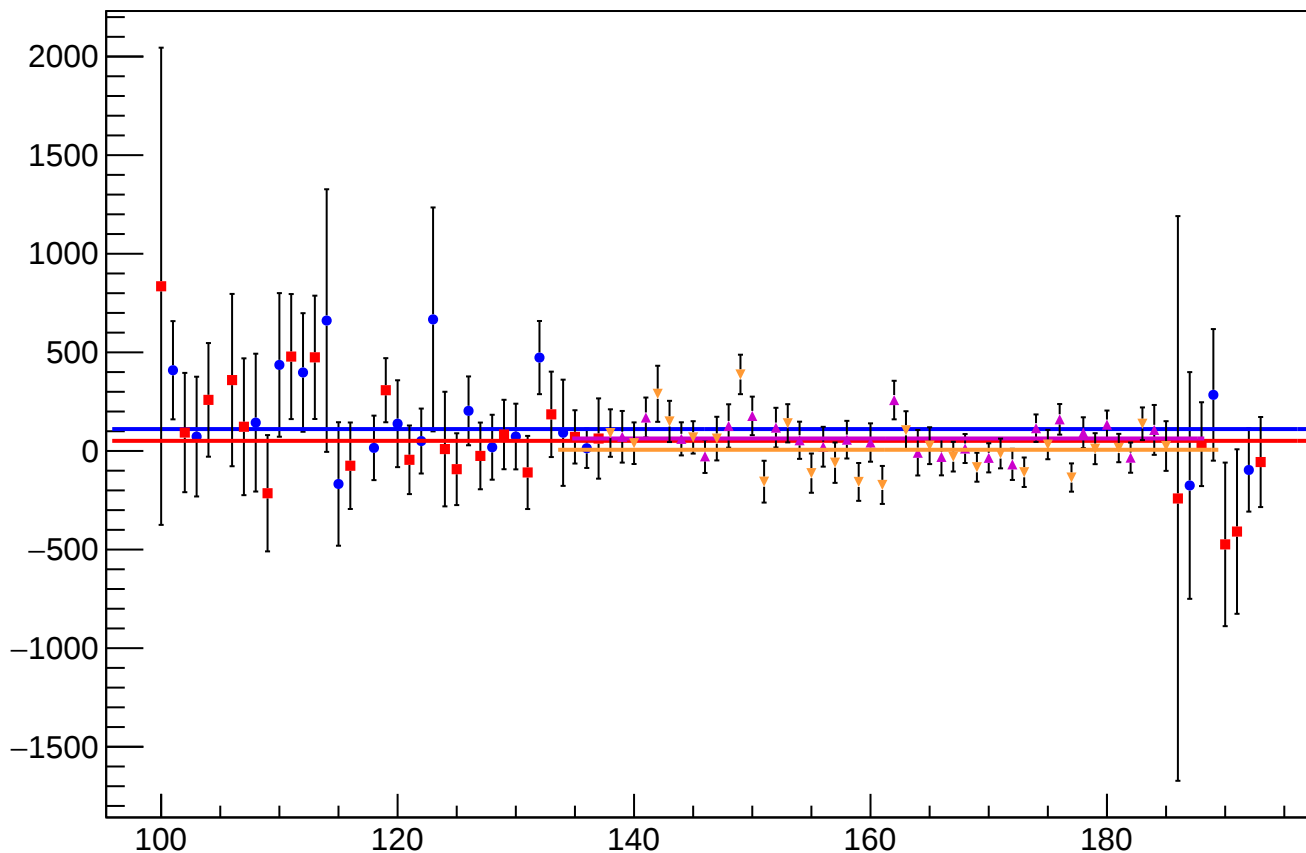
Right: 143.150+/-0.030 χ^2/NDF : 11791764.0/43

In: 211.162+/-0.035 χ^2/NDF : 14019366.4/42

Out: 213.702+/-0.033 χ^2/NDF : 14494405.0/48

All: 212.489+/-0.024 χ^2/NDF : 28516543.8/92

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 110.998 $\pm$ 47.269 χ^2 /NDF: 13.0/19

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF: 46.0/24

Right Out: 51.300 $\pm$ 47.008 χ^2 /NDF: 14.2/23

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

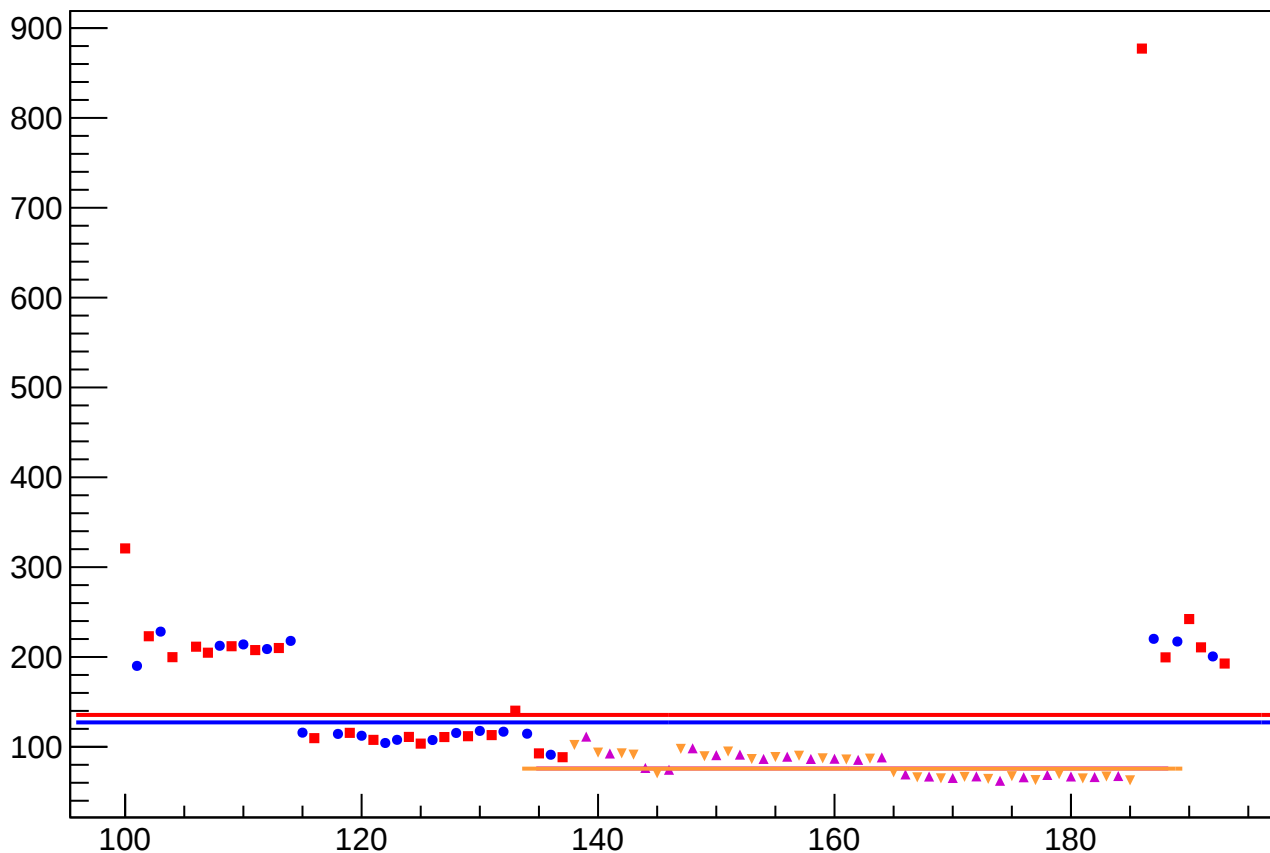
Right: 80.984 $\pm$ 33.332 χ^2 /NDF: 28.0/43

In: 69.586 $\pm$ 17.184 χ^2 /NDF: 33.7/42

Out: 11.759 $\pm$ 16.736 χ^2 /NDF: 61.0/48

All: 39.909 $\pm$ 11.990 χ^2 /NDF: 100.6/91

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 127.203 $\pm$ 0.033 χ^2 /NDF: 1583525.3/19

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 135.510 $\pm$ 0.033 χ^2 /NDF: 2448425.0/23

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

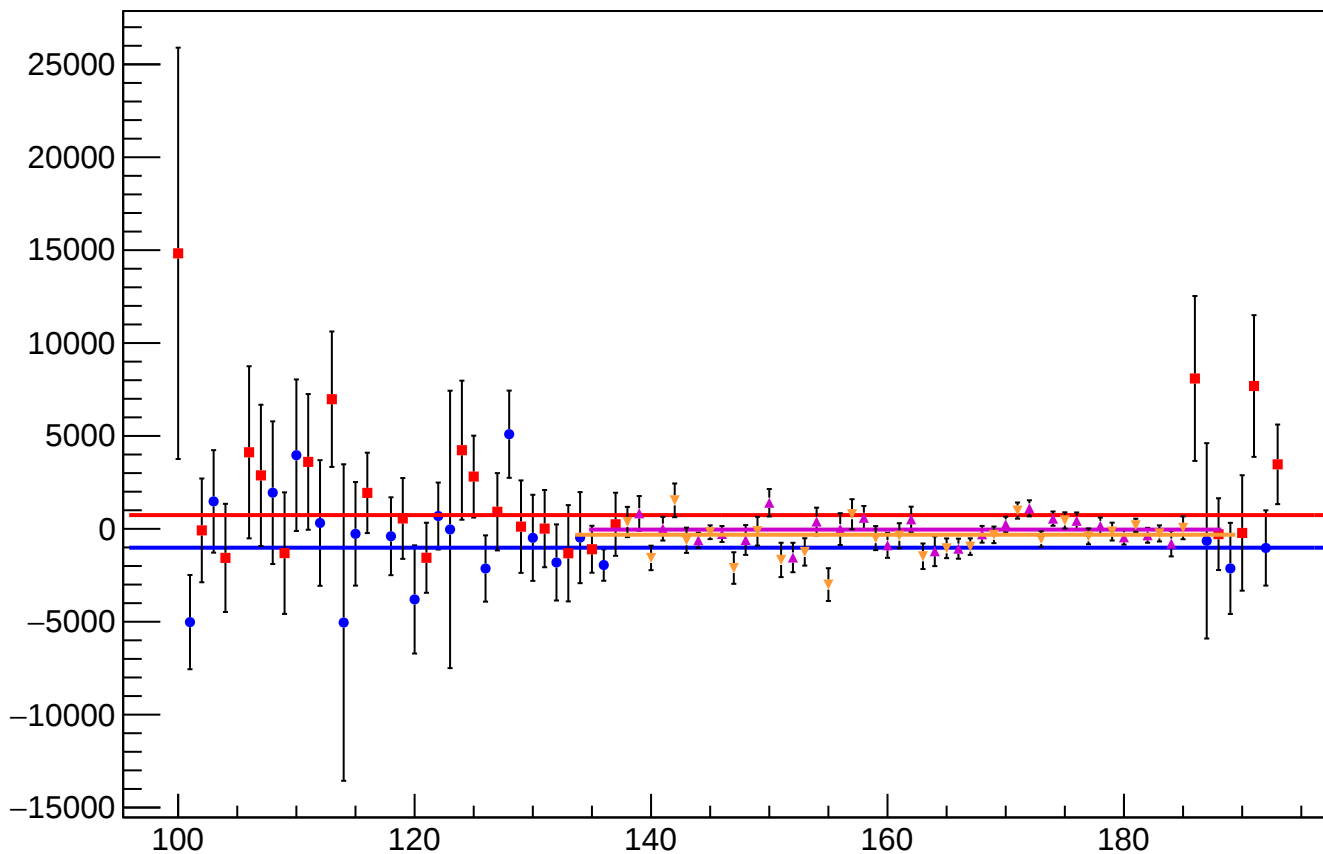
Right: 131.380 $\pm$ 0.024 χ^2 /NDF: 4063006.3/43

In: 82.689 $\pm$ 0.012 χ^2 /NDF:4458724.7/42

Out: 83.319 $\pm$ 0.012 χ^2 /NDF:6209558.0/48

All: 83.012 $\pm$ 0.008 χ^2 /NDF: 10669663.1/91

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1014.870 ± 485.654 $\chi^2/\text{NDF}: 16.6/19$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 739.624 ± 496.690 $\chi^2/\text{NDF}: 21.8/23$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

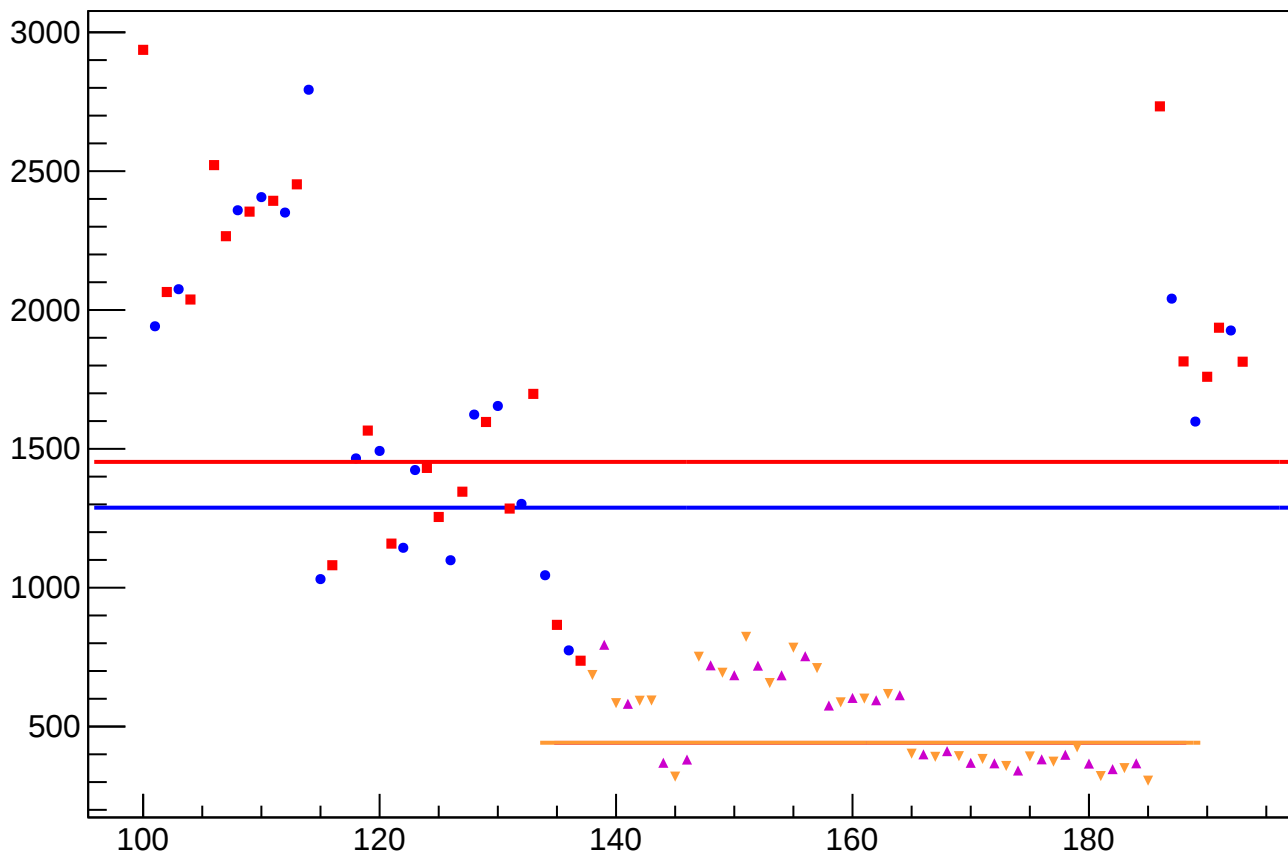
Right: -157.332 ± 347.246 $\chi^2/\text{NDF}: 44.7/43$

In: -88.229 ± 107.517 $\chi^2/\text{NDF}: 55.2/42$

Out: -270.303 ± 105.547 $\chi^2/\text{NDF}: 76.1/48$

All: -180.949 ± 75.320 $\chi^2/\text{NDF}: 132.7/91$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1288.177+/-0.343 χ^2/NDF : 2054855.3/19

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1453.021+/-0.351 χ^2/NDF : 2150186.5/23

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

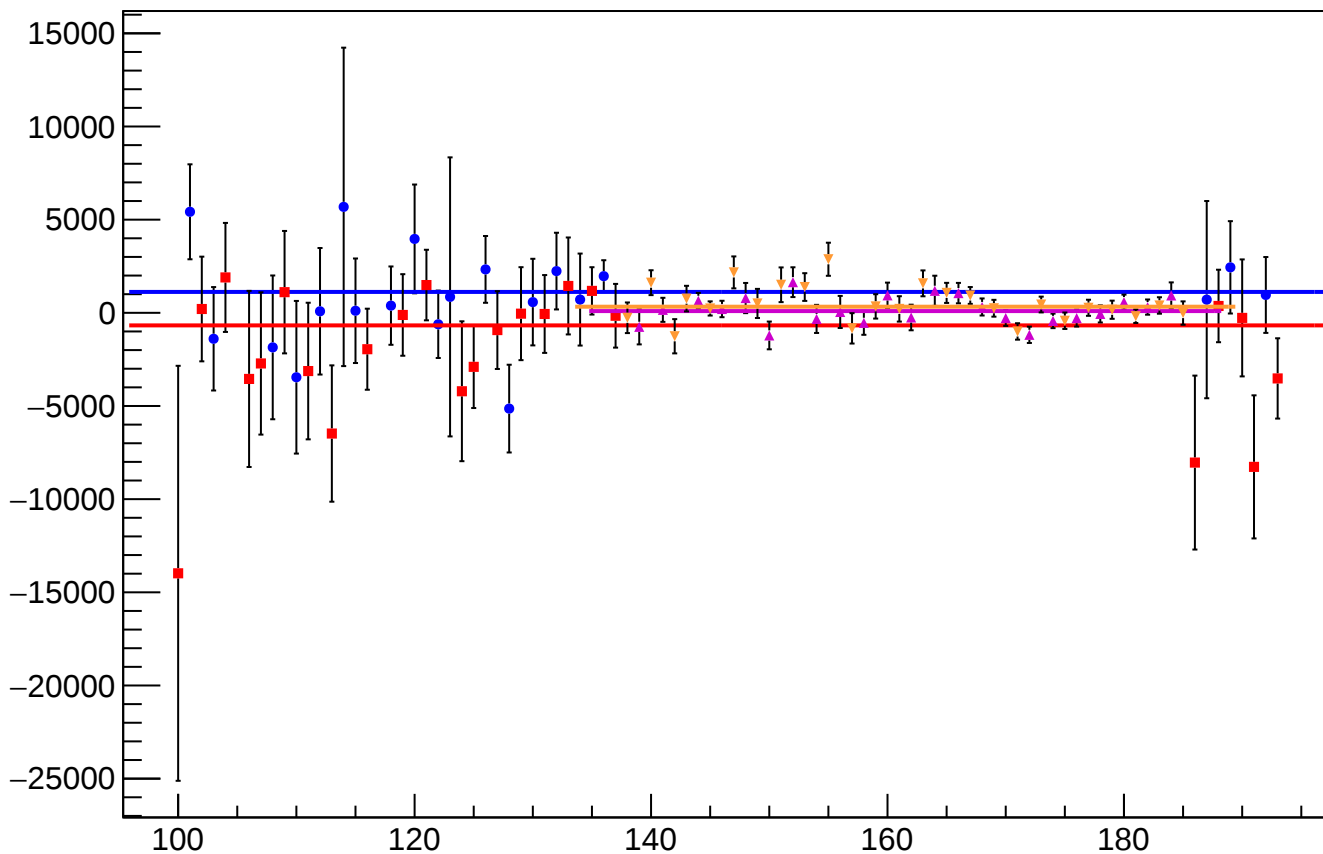
Right: 1368.747+/-0.246 χ^2/NDF : 4317663.9/43

In: 482.530+/-0.076 χ^2/NDF : 10439364.8/42

Out: 487.353+/-0.075 χ^2/NDF : 13236716.3/48

All: 484.986+/-0.053 χ^2/NDF : 23678130.7/92

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1121.757 $\pm$ 488.500 χ^2 /NDF: 17.2/19

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -674.370 $\pm$ 499.683 χ^2 /NDF: 21.3/23

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

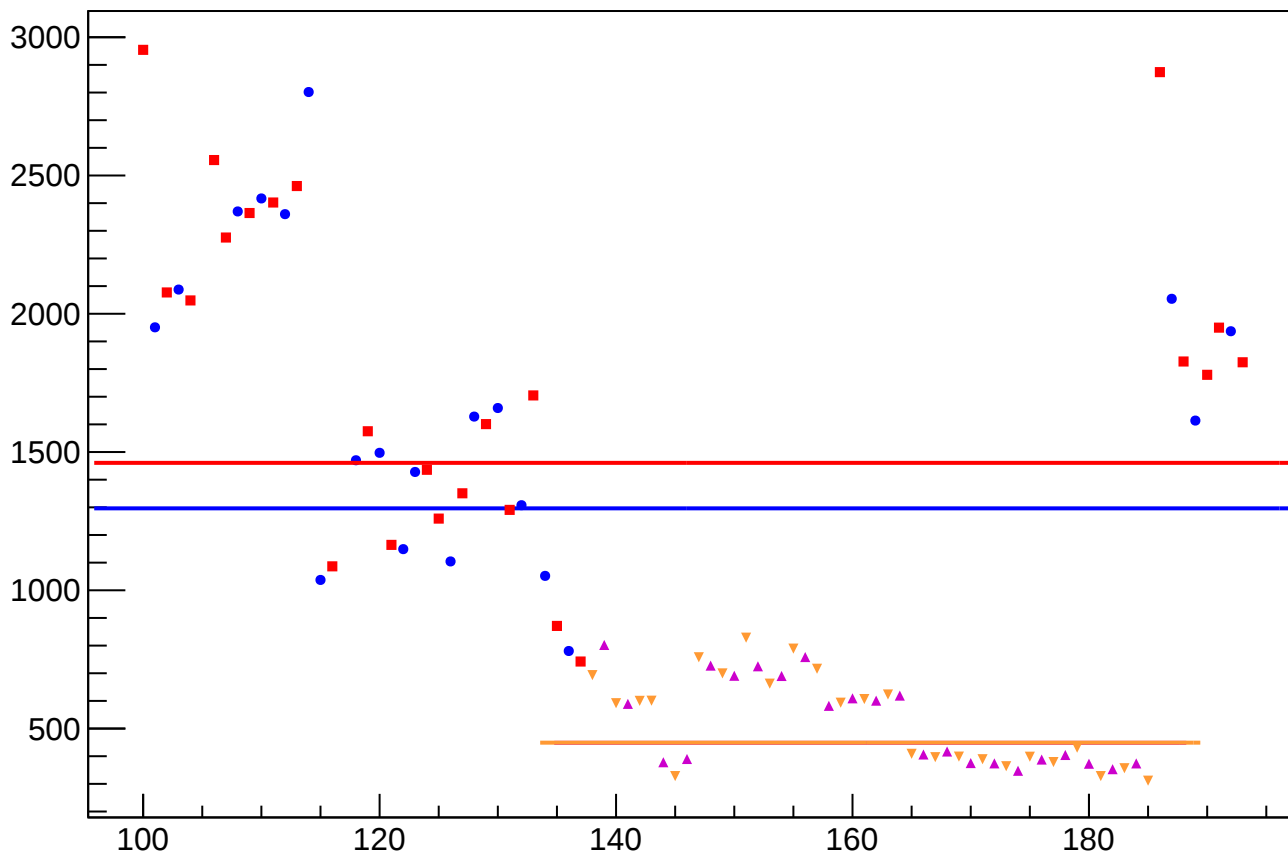
Right: 244.016 $\pm$ 349.308 χ^2 /NDF: 45.1/43

In: 144.637 $\pm$ 109.130 χ^2 /NDF: 54.8/42

Out: 282.506 $\pm$ 107.119 χ^2 /NDF: 72.9/48

All: 214.854 $\pm$ 76.446 χ^2 /NDF: 128.5/91

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1296.326+/-0.345 χ^2/NDF : 2042750.7/19

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1460.838+/-0.353 χ^2/NDF : 2165704.4/23

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

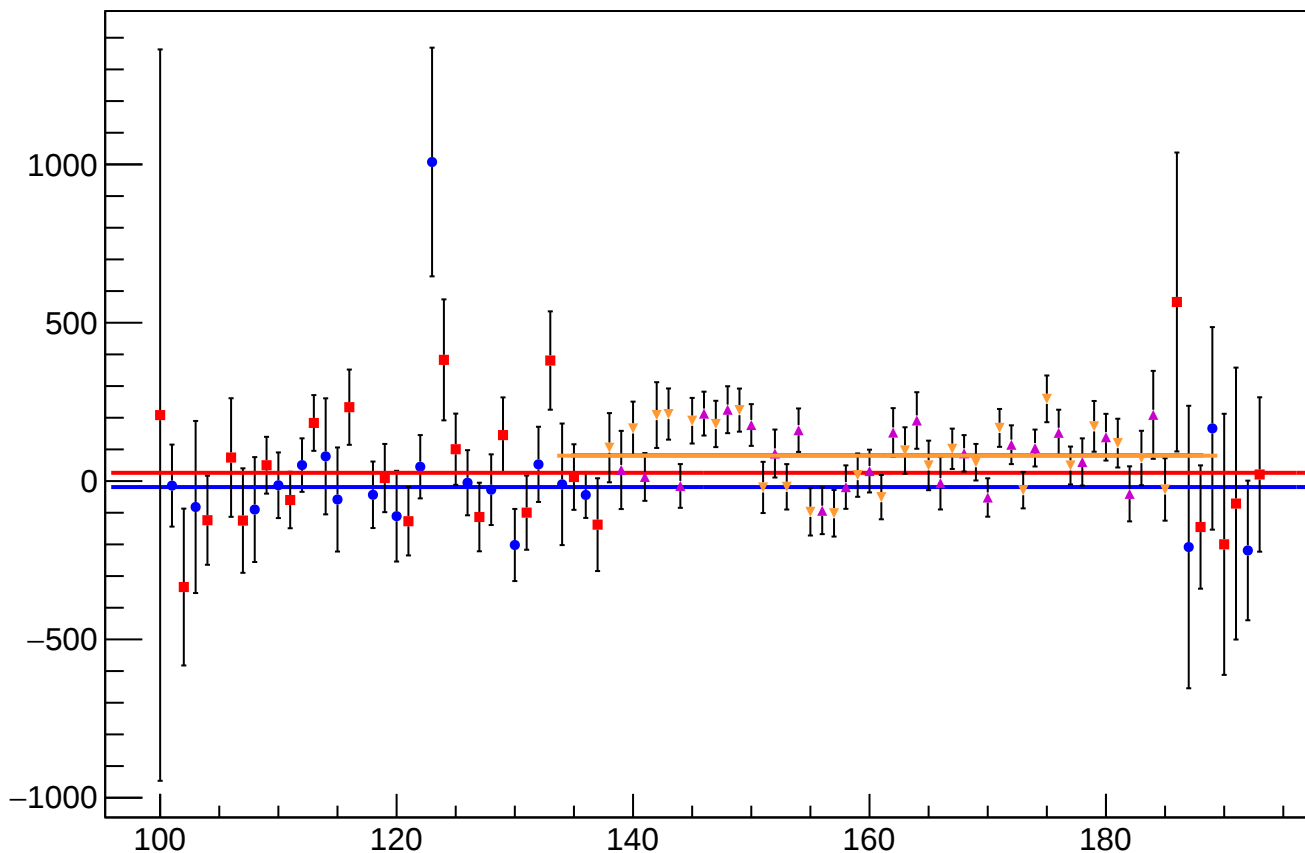
Right: 1376.720+/-0.247 χ^2/NDF : 4319302.1/43

In: 490.629+/-0.077 χ^2/NDF : 10306473.8/42

Out: 495.516+/-0.076 χ^2/NDF : 13079974.5/48

All: 493.118+/-0.054 χ^2/NDF : 23388490.6/92

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -18.927 ± 28.488 $\chi^2/\text{NDF}: 14.6/19$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 26.101 ± 27.421 $\chi^2/\text{NDF}: 30.1/23$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

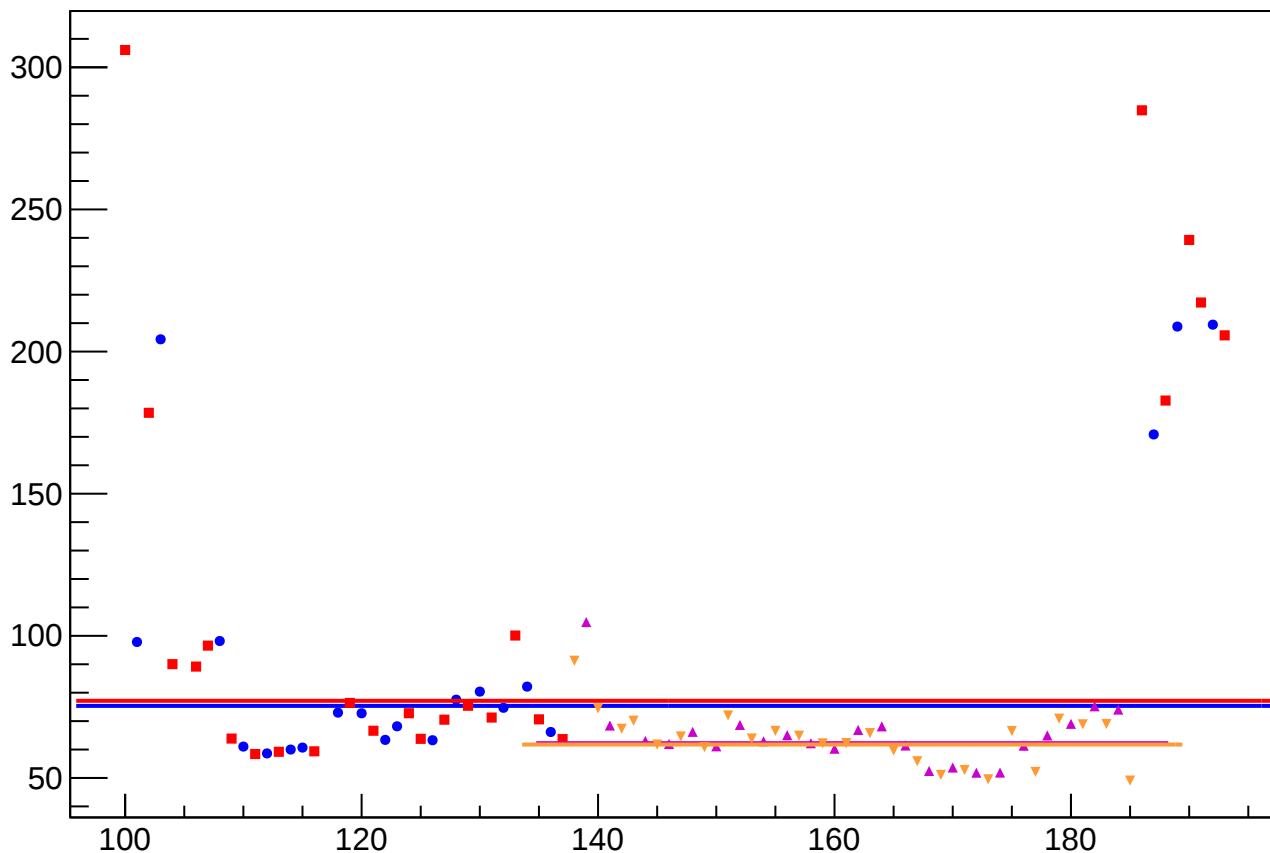
Right: 4.447 ± 19.756 $\chi^2/\text{NDF}: 46.0/43$

In: 59.193 ± 13.345 $\chi^2/\text{NDF}: 59.6/42$

Out: 68.238 ± 12.882 $\chi^2/\text{NDF}: 81.7/48$

All: 63.875 ± 9.268 $\chi^2/\text{NDF}: 141.5/91$

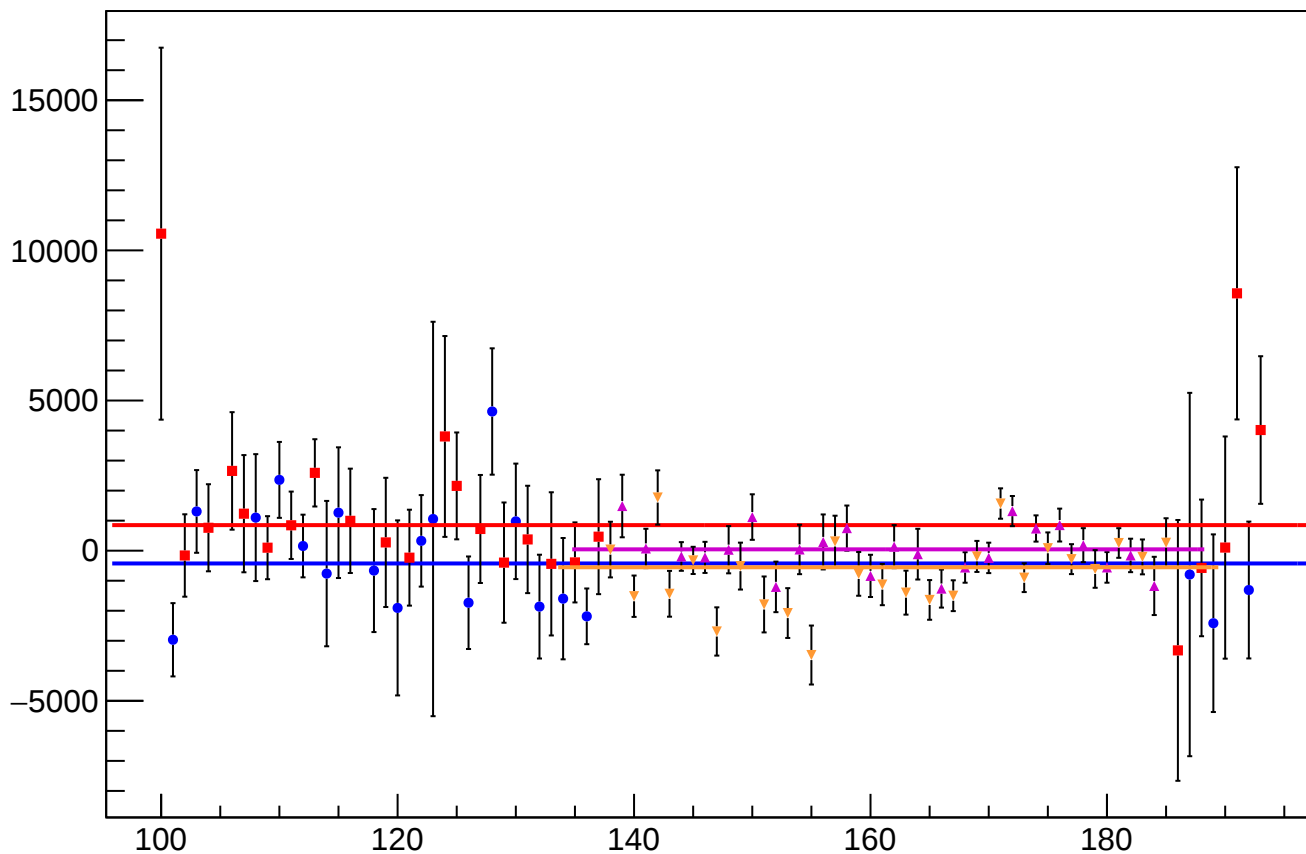
reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 75.364 $\pm$ 0.020 χ^2 /NDF: 1973163.8/19
 Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24
 Right Out: 77.148 $\pm$ 0.019 χ^2 /NDF: 2910126.6/23
 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: 76.290 $\pm$ 0.014 χ^2 /NDF: 4887365.6/43
 In: 65.128 $\pm$ 0.009 χ^2 /NDF: 2895032.6/42
 Out: 65.157 $\pm$ 0.009 χ^2 /NDF: 4046468.4/48
 All: 65.143 $\pm$ 0.007 χ^2 /NDF: 6941506.0/91

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -425.550+/-373.922 χ^2/NDF : 25.1/19

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 851.160+/-357.495 χ^2/NDF : 16.7/23

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

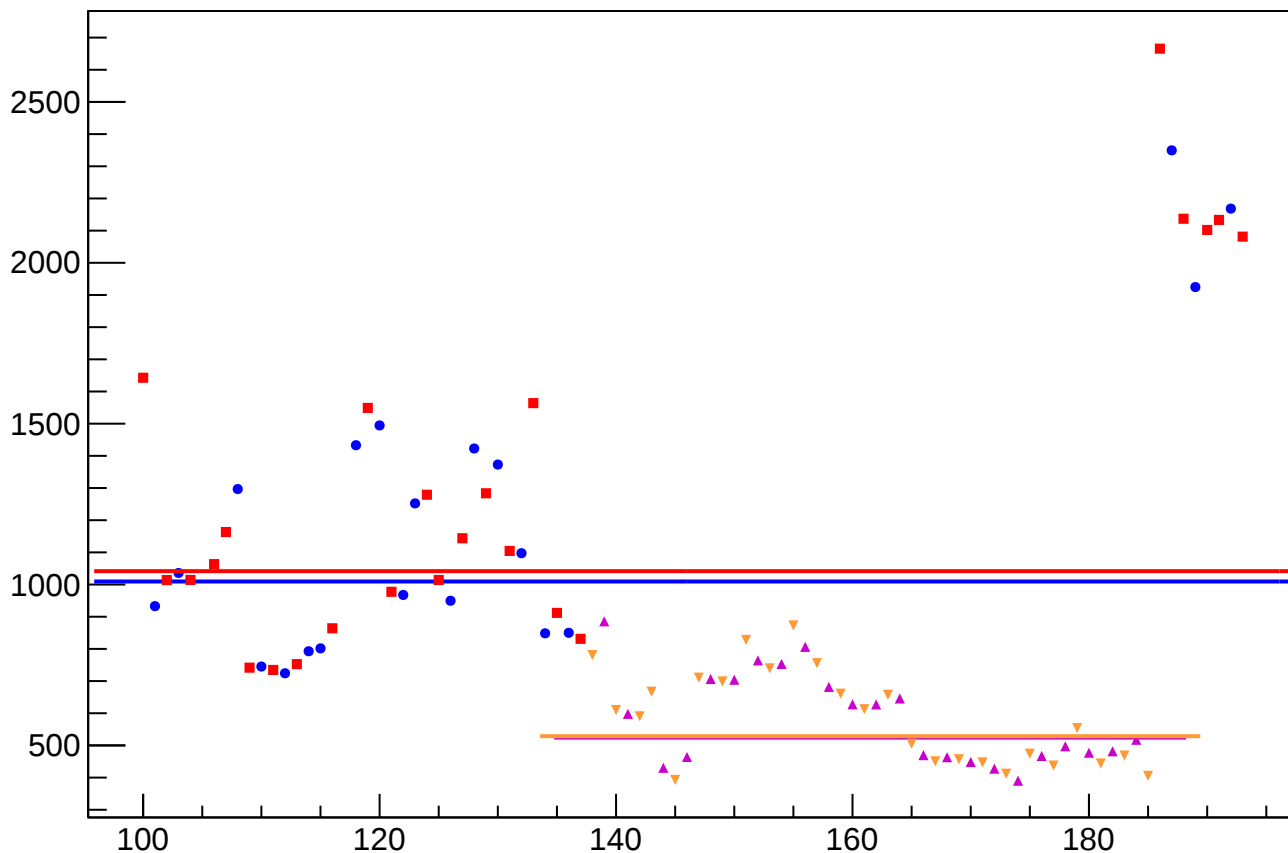
Right: 241.465+/-258.399 χ^2/NDF : 47.9/43

In: -5.490+/-122.027 χ^2/NDF : 56.0/42

Out: -395.257+/-119.657 χ^2/NDF : 95.7/48

All: -204.195+/-85.436 χ^2/NDF : 157.0/91

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1009.498 $\pm$ 0.264 χ^2 /NDF: 1497574.5/19

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1041.615 $\pm$ 0.253 χ^2 /NDF: 2198331.9/23

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

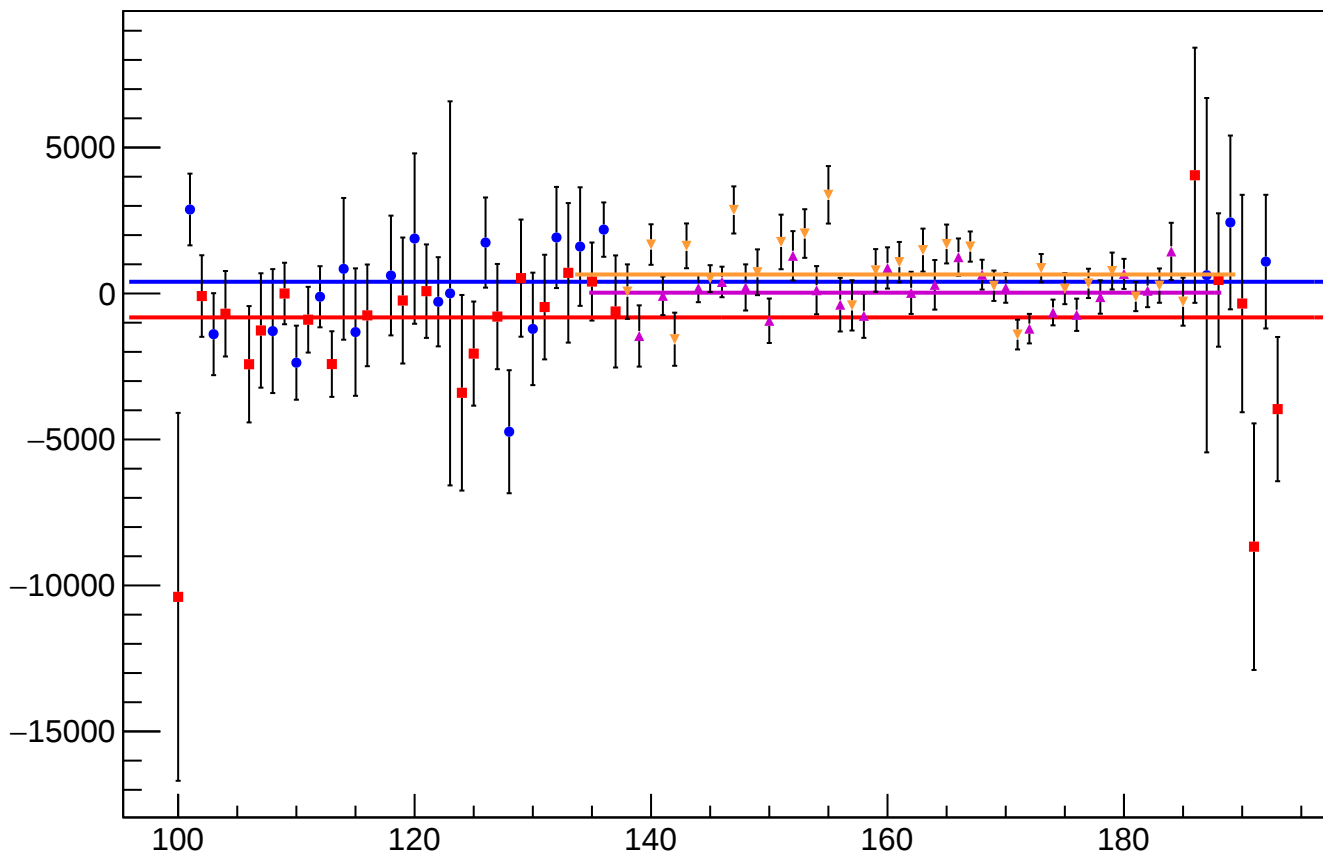
Right: 1026.277 $\pm$ 0.183 χ^2 /NDF: 3703615.0/43

In: 575.945 $\pm$ 0.086 χ^2 /NDF:6223071.5/42

Out: 586.194 $\pm$ 0.085 χ^2 /NDF:7837285.4/48

All: 581.170 $\pm$ 0.060 χ^2 /NDF: 14067549.3/92

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 401.497+/-375.630 χ^2/NDF : 25.2/19

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -818.744+/-359.305 χ^2/NDF : 15.8/23

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

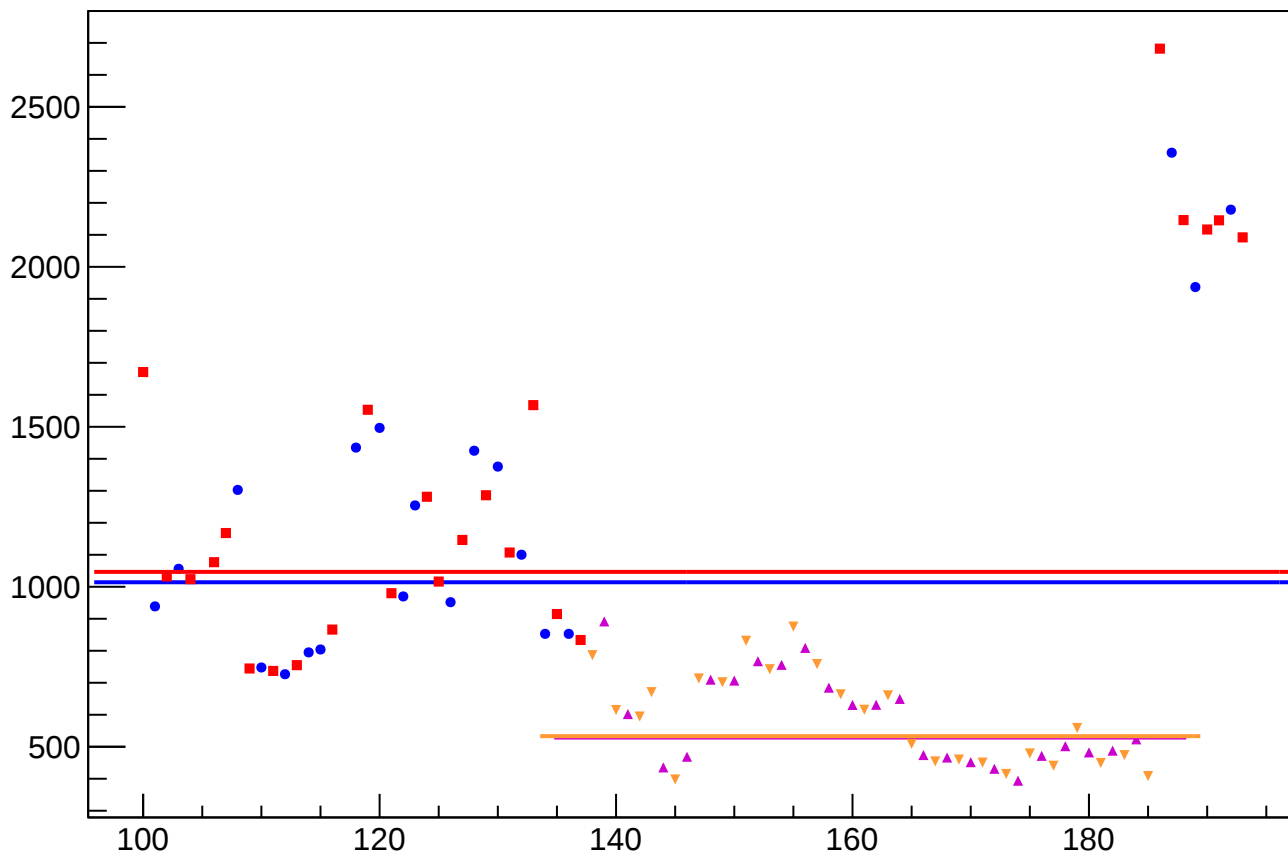
Right: -235.716+/-259.646 χ^2/NDF : 46.5/43

In: 67.559+/-122.958 χ^2/NDF : 54.6/42

Out: 486.067+/-120.545 χ^2/NDF : 91.7/48

All: 280.960+/-86.078 χ^2/NDF : 152.2/91

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1014.098 $\pm$ 0.266 χ^2 /NDF: 1498355.3/19

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1046.546 $\pm$ 0.254 χ^2 /NDF: 2202584.9/23

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF:1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

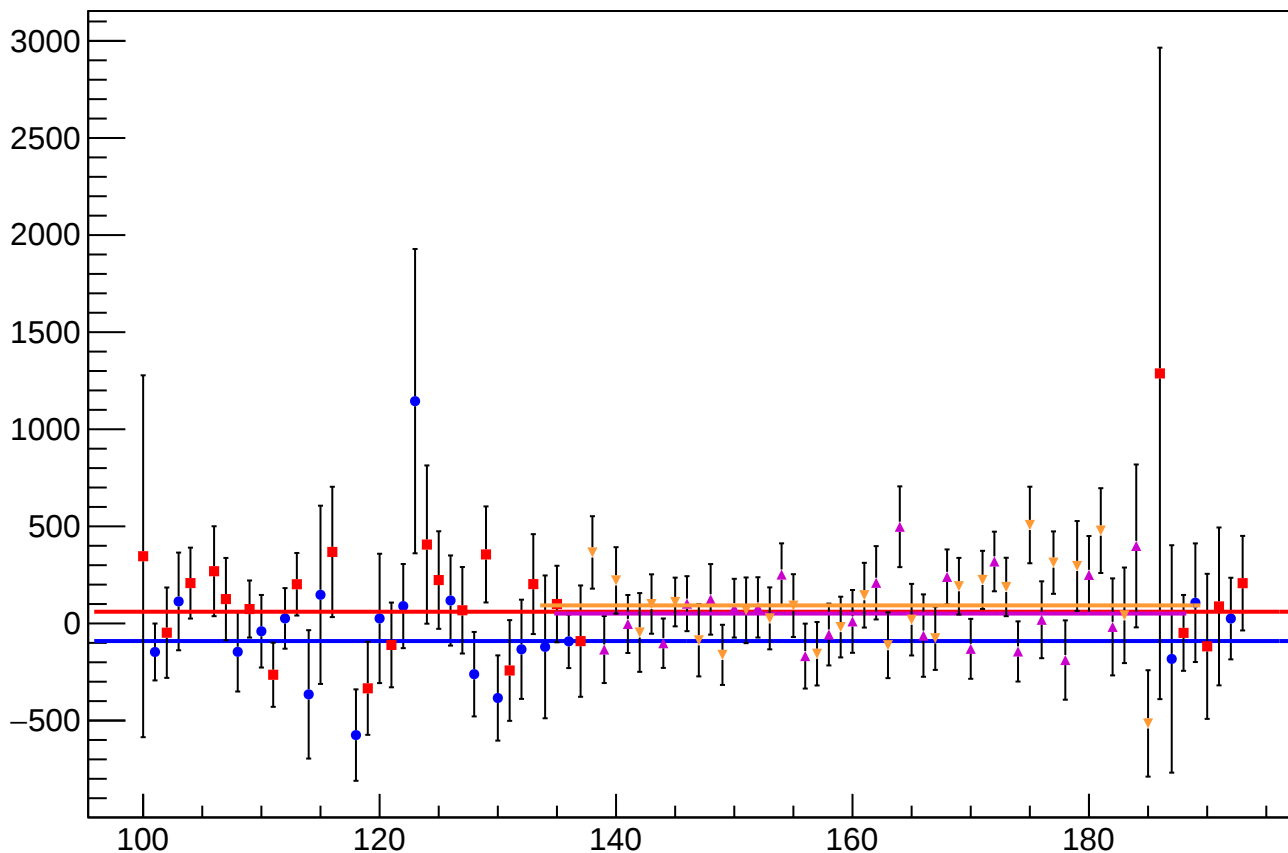
Right: 1031.043 $\pm$ 0.184 χ^2 /NDF: 3708733.5/43

In: 580.705 $\pm$ 0.087 χ^2 /NDF:6168780.4/42

Out: 590.856 $\pm$ 0.085 χ^2 /NDF:7779074.6/48

All: 585.881 $\pm$ 0.061 χ^2 /NDF: 13954806.4/91

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -90.621 ± 50.510 χ^2/NDF : 14.0/19

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 60.364 ± 47.551 χ^2/NDF : 16.7/23

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

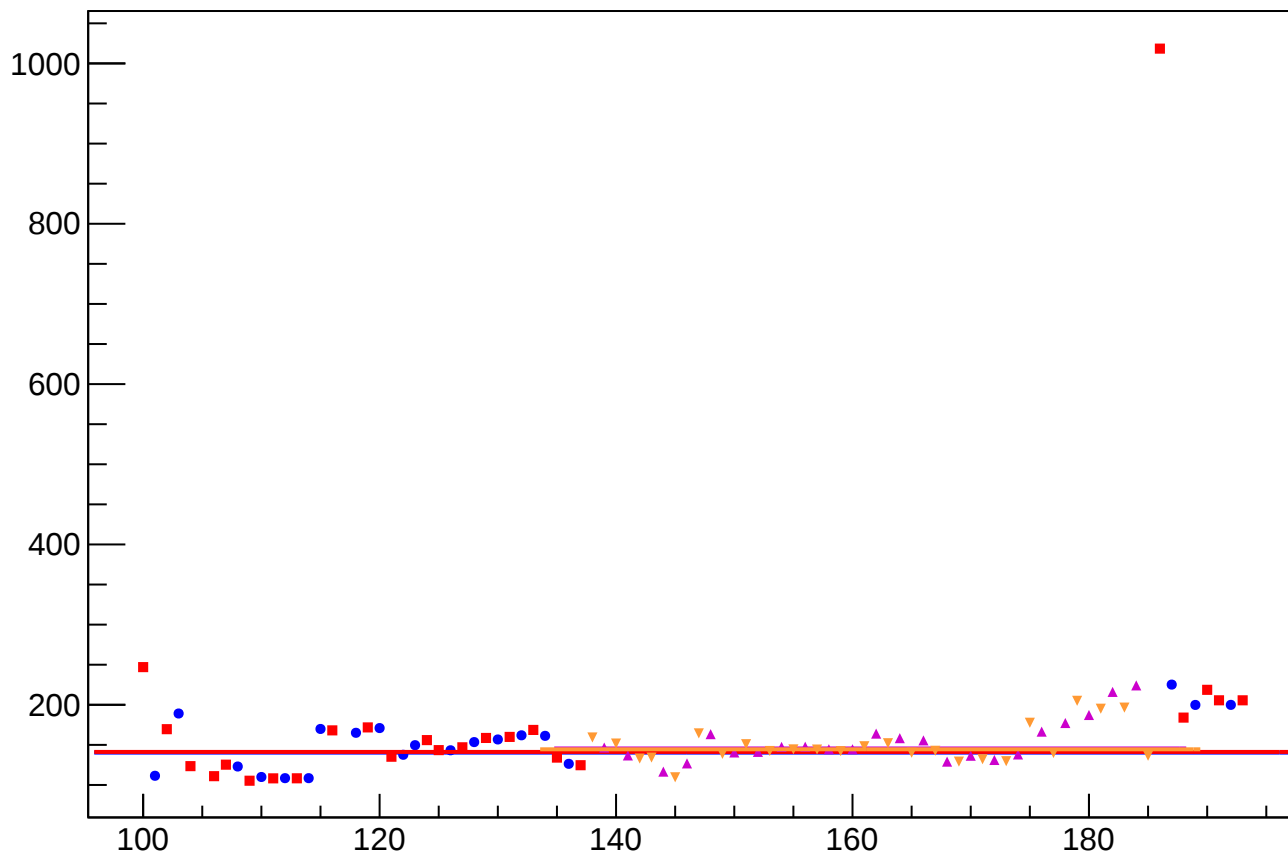
Right: -10.577 ± 34.622 χ^2/NDF : 35.4/43

In: 4.493 ± 28.923 χ^2/NDF : 42.7/42

Out: 81.932 ± 27.686 χ^2/NDF : 46.4/48

All: 44.904 ± 20.000 χ^2/NDF : 92.9/91

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 140.396 $\pm$ 0.036 χ^2 /NDF: 708515.2/19

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 141.220 $\pm$ 0.034 χ^2 /NDF: 1424724.5/23

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

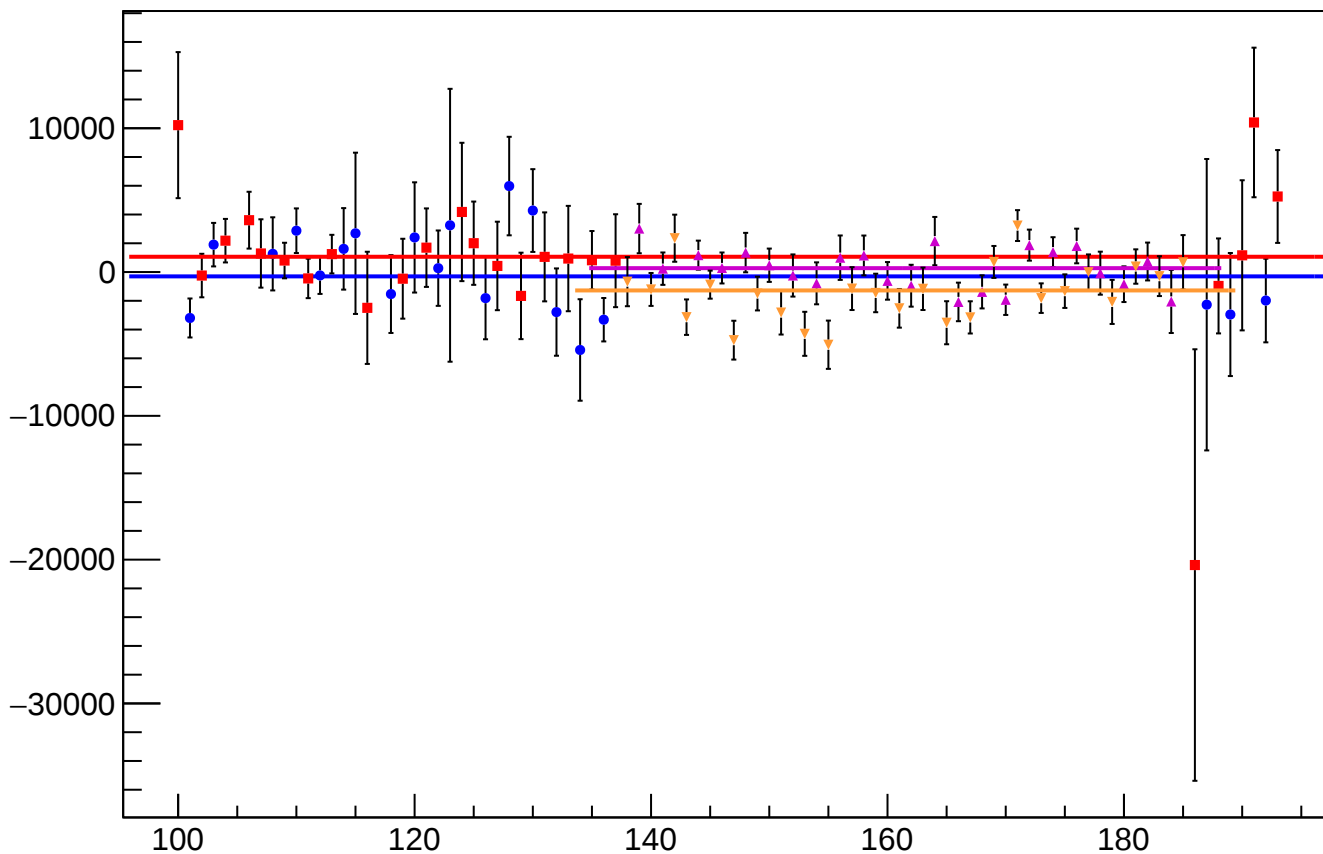
Right: 140.833 $\pm$ 0.024 χ^2 /NDF: 2133522.1/43

In: 143.850 $\pm$ 0.020 χ^2 /NDF: 1365957.3/42

Out: 143.372 $\pm$ 0.020 χ^2 /NDF: 2101407.7/48

All: 143.600 $\pm$ 0.014 χ^2 /NDF: 3467650.1/91

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -301.650+/-512.164 χ^2/NDF : 26.6/19

Left Out: -1279.328+/-259.299 χ^2/NDF :55.9/24

Right Out: 1062.778+/-467.387 χ^2/NDF : 17.4/23

Left In: 269.952+/-266.245 χ^2/NDF :24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

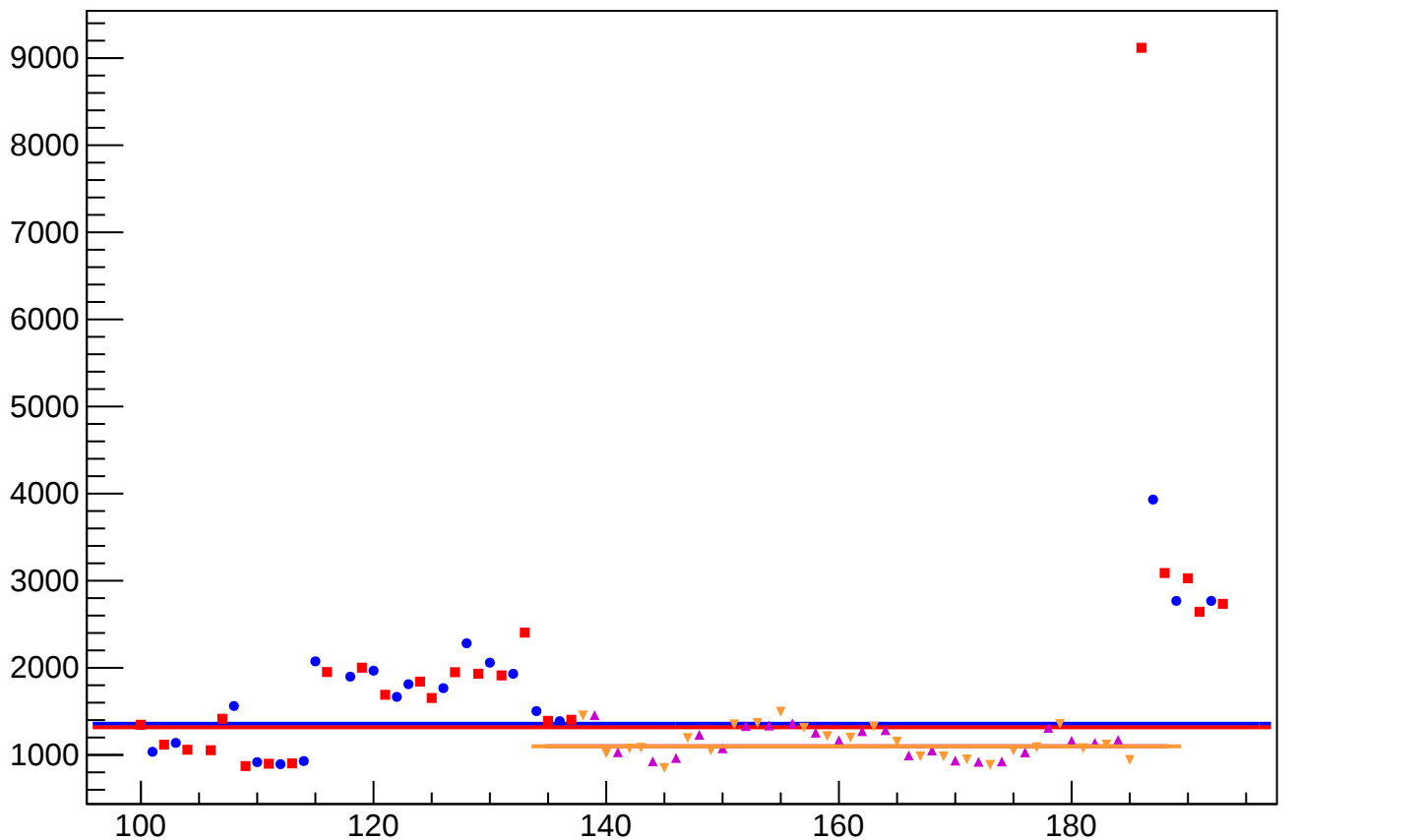
Right: 442.804+/-345.239 χ^2/NDF : 47.8/43

In: 148.346+/-236.232 χ^2/NDF :51.8/42

Out: -728.116+/-226.742 χ^2/NDF :92.5/48

All: -307.843+/-163.583 χ^2/NDF : 151.5/91

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1357.957 $\pm$ 0.362 χ^2 /NDF: 2028218.6/19

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1317.326 $\pm$ 0.330 χ^2 /NDF: 3298602.5/23

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

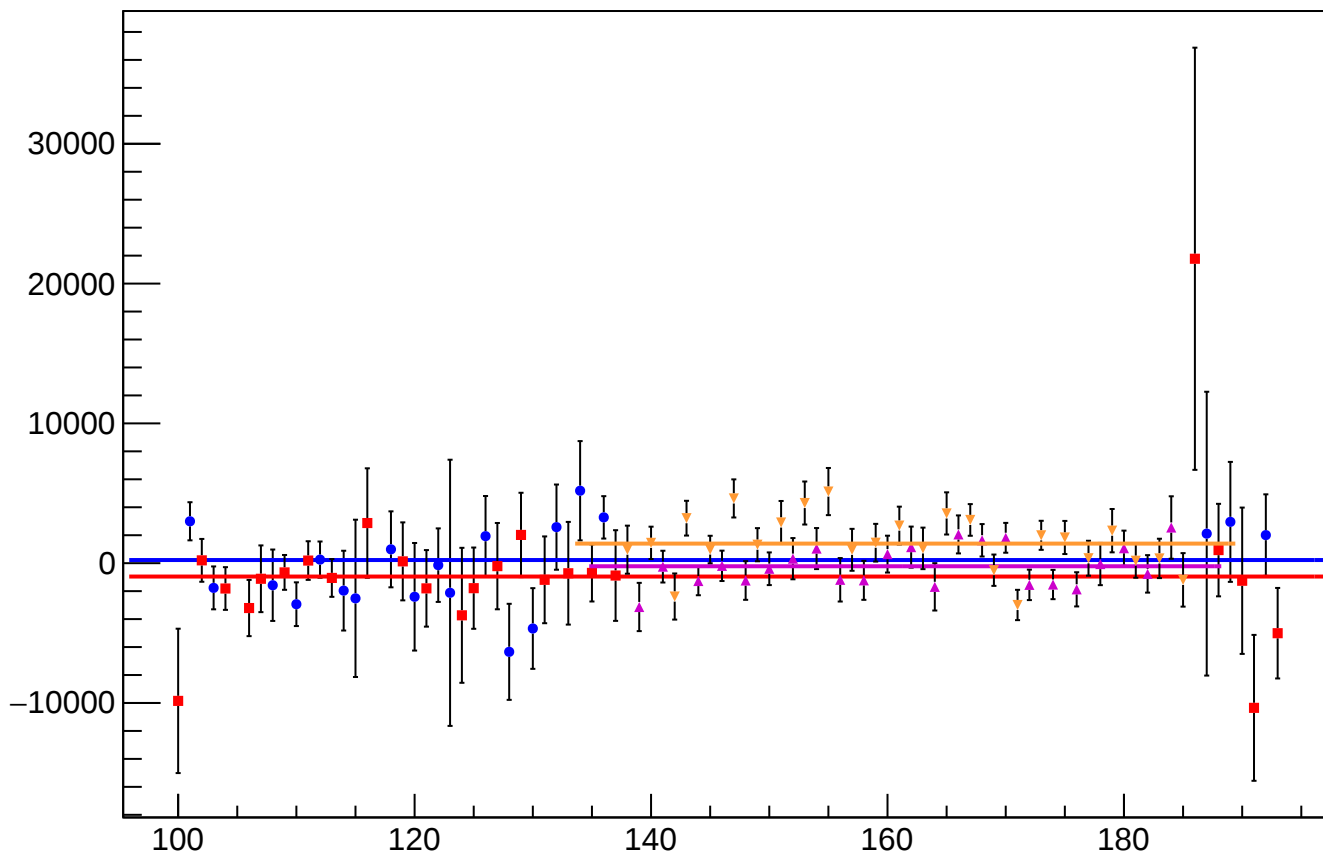
Right: 1335.788 $\pm$ 0.244 χ^2 /NDF: 5333688.6/43

In: 1154.553 $\pm$ 0.167 χ^2 /NDF: 3108813.6/42

Out: 1150.313 $\pm$ 0.160 χ^2 /NDF: 4456907.1/48

All: 1152.346 $\pm$ 0.116 χ^2 /NDF: 7566056.0/91

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 225.272 $\pm$ 515.401 χ^2 /NDF: 26.2/19

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF: 52.2/24

Right Out: -955.713 $\pm$ 470.830 χ^2 /NDF: 15.9/23

Left In: -219.393 $\pm$ 268.852 χ^2 /NDF: 25.0/22

Left: 612.044 $\pm$ 187.566 χ^2 /NDF: 95.9/47

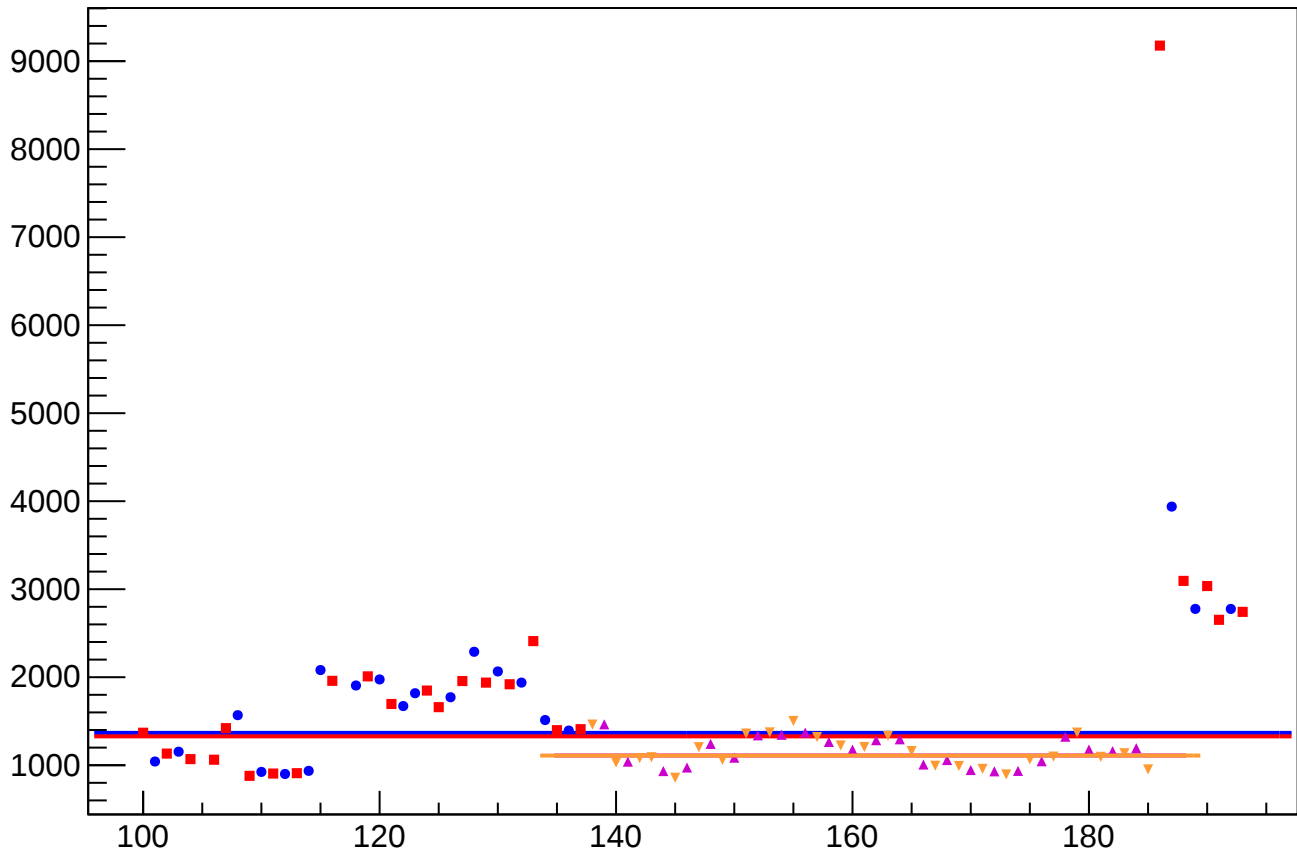
Right: -418.485 $\pm$ 347.618 χ^2 /NDF: 45.0/43

In: -124.279 $\pm$ 238.370 χ^2 /NDF: 51.7/42

Out: 844.004 $\pm$ 228.810 χ^2 /NDF: 87.3/48

All: 379.669 $\pm$ 165.069 χ^2 /NDF: 147.6/91

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1367.540+/-0.364 χ^2/NDF : 2008875.8/19

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1327.745+/-0.333 χ^2/NDF : 3272151.8/23

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

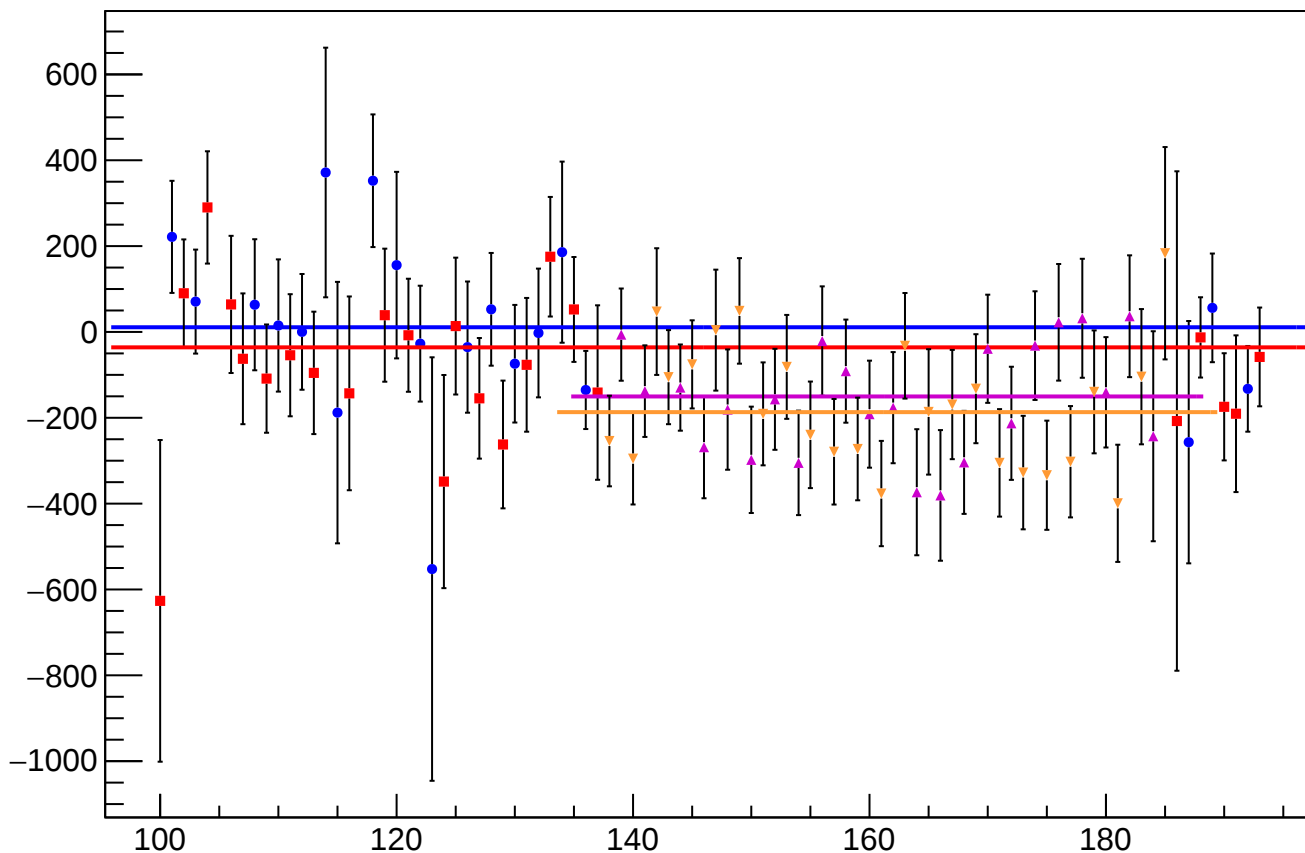
Right: 1345.847+/-0.246 χ^2/NDF : 5287527.0/43

In: 1165.514+/-0.169 χ^2/NDF : 3069713.5/42

Out: 1161.242+/-0.162 χ^2/NDF : 4411777.2/48

All: 1163.291+/-0.117 χ^2/NDF : 7481825.0/93

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected

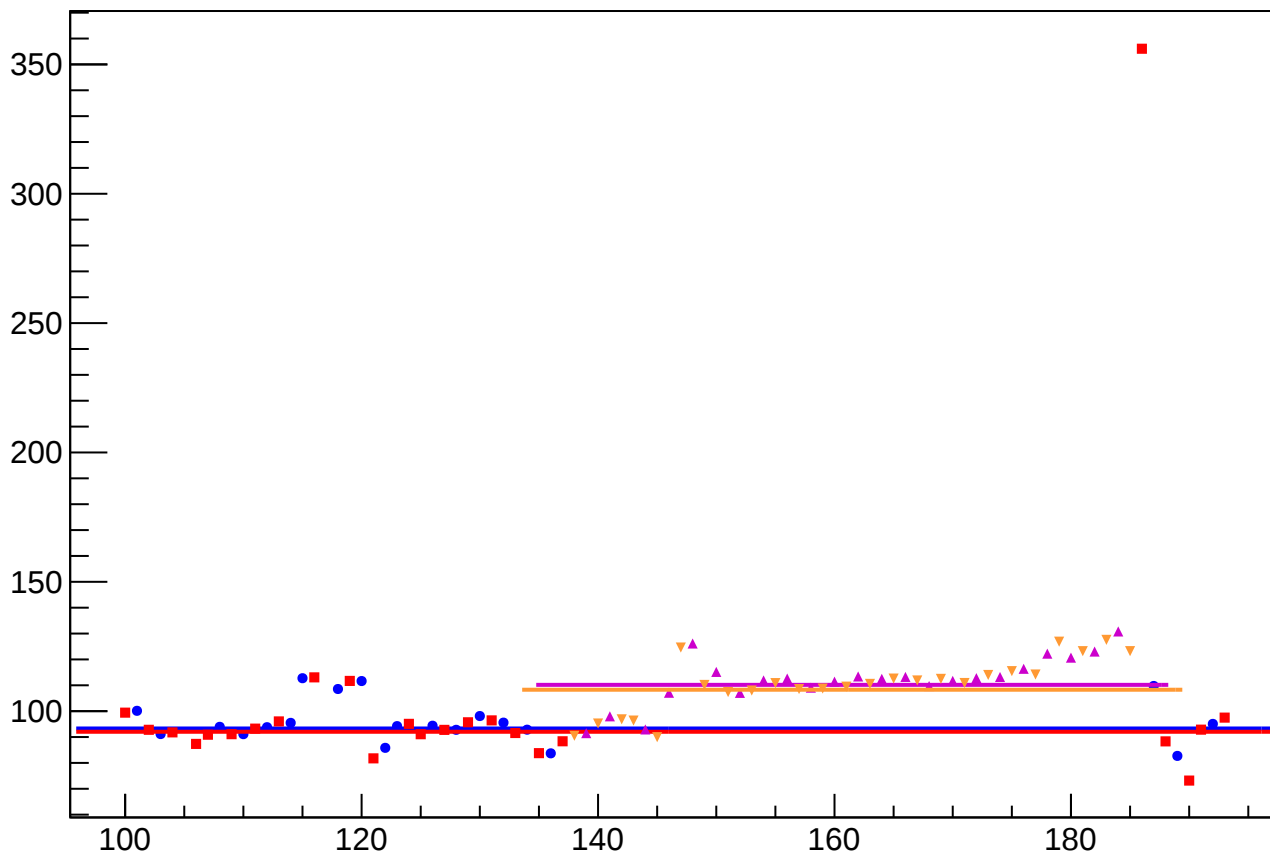


Right In: 10.917 ± 32.818 $\chi^2/\text{NDF}: 18.6/19$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -35.913 ± 29.962 $\chi^2/\text{NDF}: 21.2/23$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: -14.624 ± 22.127 $\chi^2/\text{NDF}: 40.8/43$
 In: -86.839 ± 20.592 $\chi^2/\text{NDF}: 53.9/42$
 Out: -123.994 ± 19.334 $\chi^2/\text{NDF}: 62.6/48$

All: -106.586 ± 14.095 $\chi^2/\text{NDF}: 118.2/91$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 93.303+/-0.023 χ^2/NDF : 101501.7/19

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 92.039+/-0.021 χ^2/NDF : 544544.4/23

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

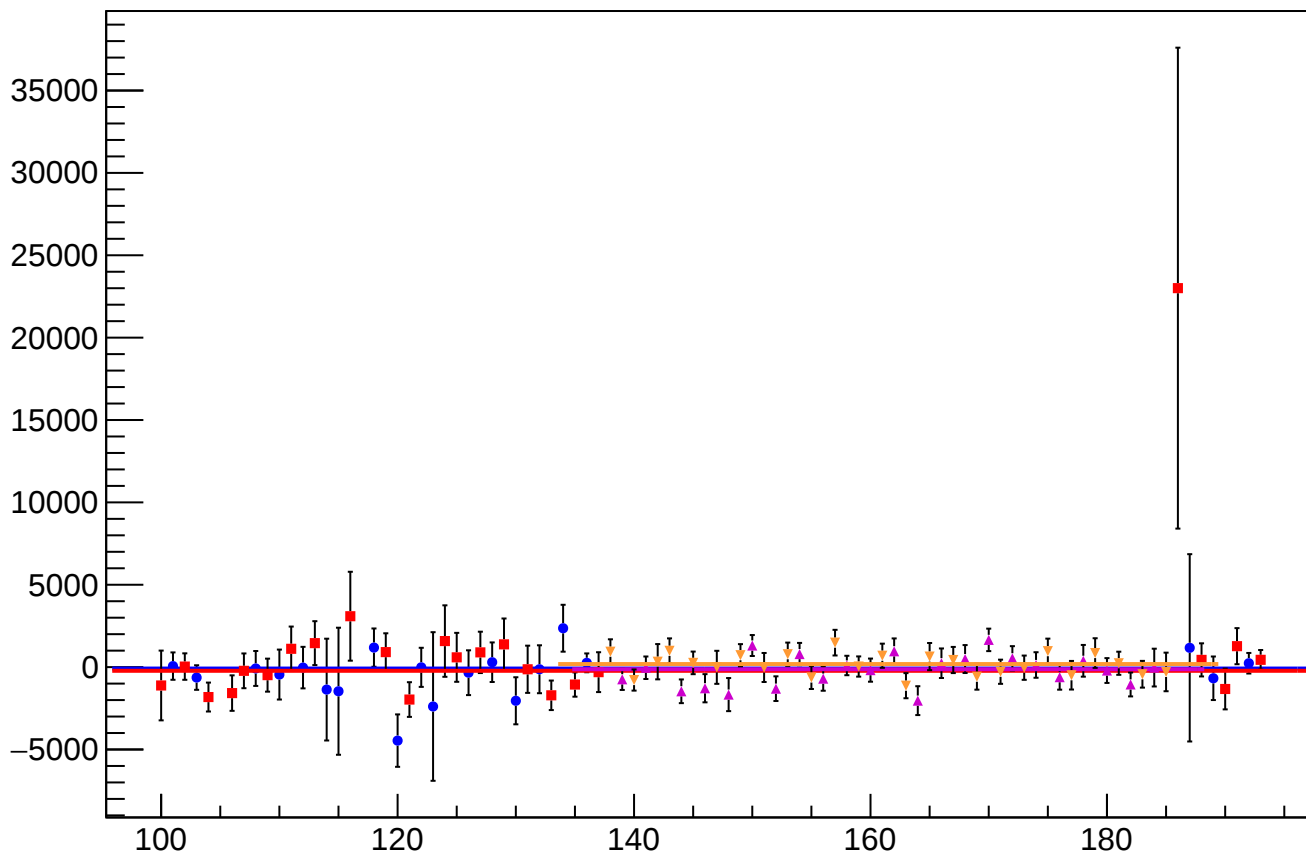
Right: 92.614+/-0.016 χ^2/NDF : 647664.2/43

In: 103.532+/-0.015 χ^2/NDF : 668891.4/42

Out: 101.522+/-0.014 χ^2/NDF : 1218493.1/48

All: 102.463+/-0.010 χ^2/NDF : 1897509.9/91

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -87.254 ± 248.470 χ^2/NDF : 15.8/19

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -222.627 ± 223.495 χ^2/NDF : 26.8/23

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

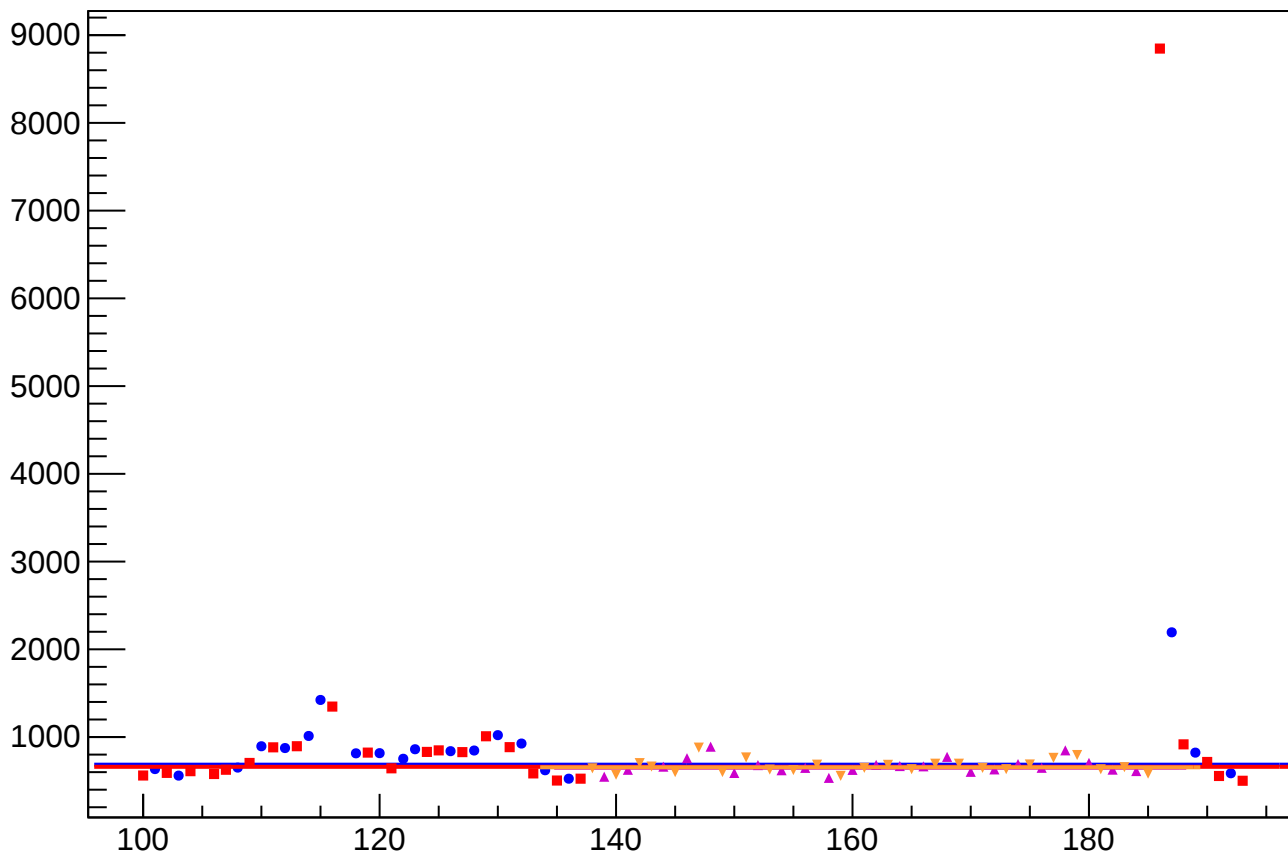
Right: -162.084 ± 166.165 χ^2/NDF : 42.8/43

In: -116.916 ± 132.818 χ^2/NDF : 52.0/42

Out: 54.402 ± 126.633 χ^2/NDF : 47.4/48

All: -27.175 ± 91.652 χ^2/NDF : 100.3/91

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 685.134+/-0.176 χ^2/NDF : 891848.7/19

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 660.812+/-0.158 χ^2/NDF : 1609434.5/23

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

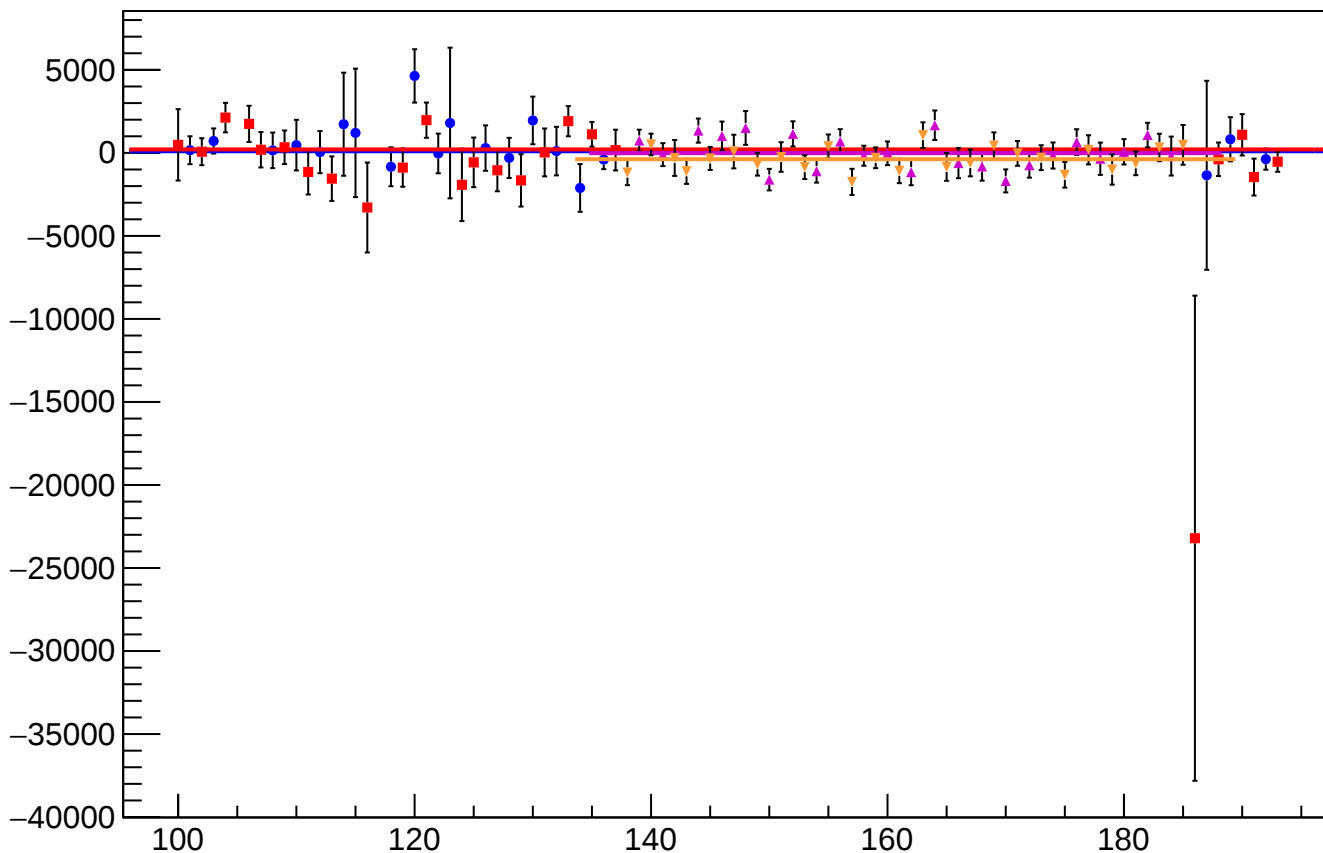
Right: 671.689+/-0.117 χ^2/NDF : 2511876.0/43

In: 660.670+/-0.094 χ^2/NDF : 1385109.6/42

Out: 656.971+/-0.090 χ^2/NDF : 1977654.2/48

All: 658.732+/-0.065 χ^2/NDF : 3363576.2/91

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 98.673+/-251.066 χ^2/NDF : 15.7/19

Left Out: -379.470+/-155.892 χ^2/NDF :18.8/24

Right Out: 208.967+/-226.032 χ^2/NDF : 30.5/23

Left In: -14.768+/-159.513 χ^2/NDF :37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

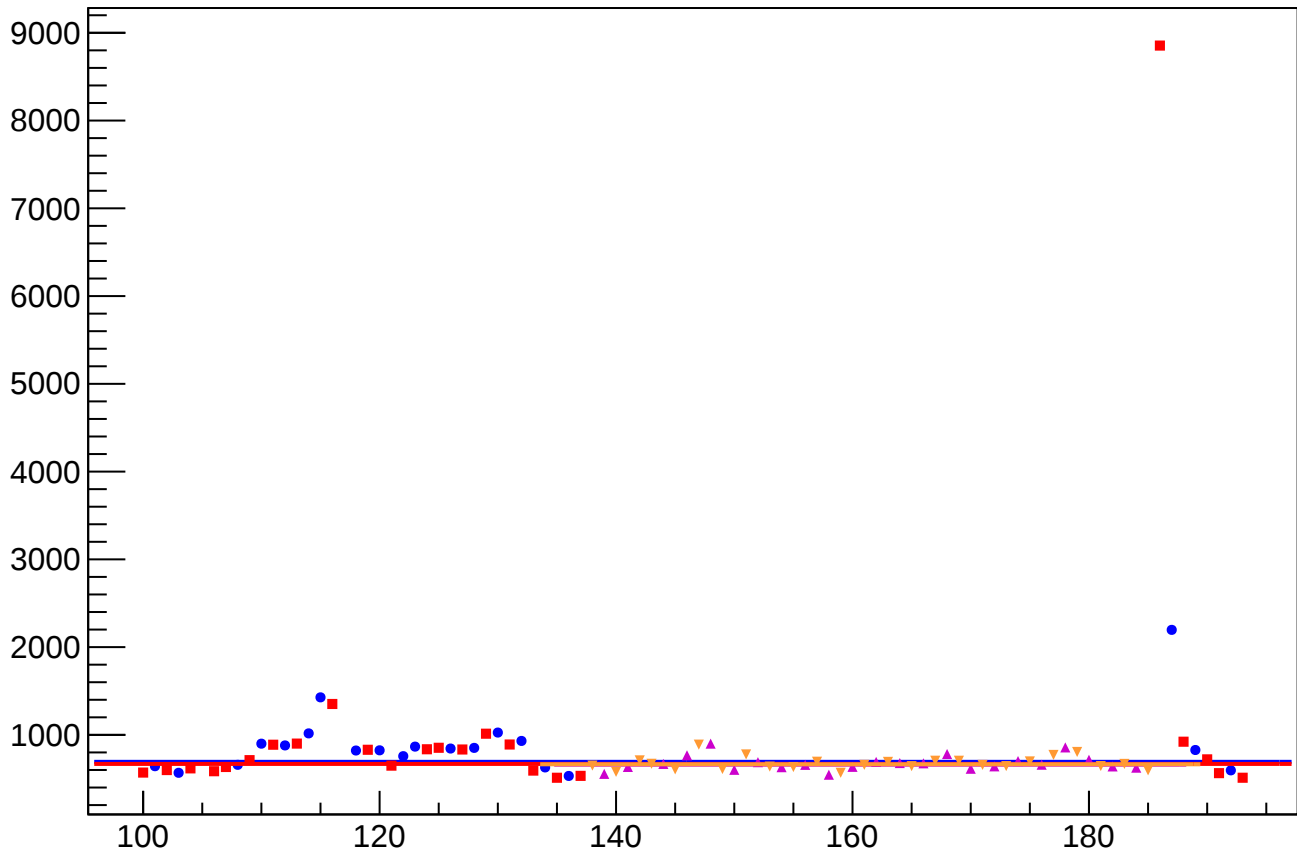
Right: 159.591+/-167.984 χ^2/NDF : 46.4/43

In: 17.855+/-134.637 χ^2/NDF :53.0/42

Out: -189.791+/-128.330 χ^2/NDF :54.0/48

All: -90.946+/-92.893 χ^2/NDF : 108.2/91

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 692.885+/-0.178 χ^2/NDF : 870190.7/19

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 669.078+/-0.160 χ^2/NDF : 1577635.3/23

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

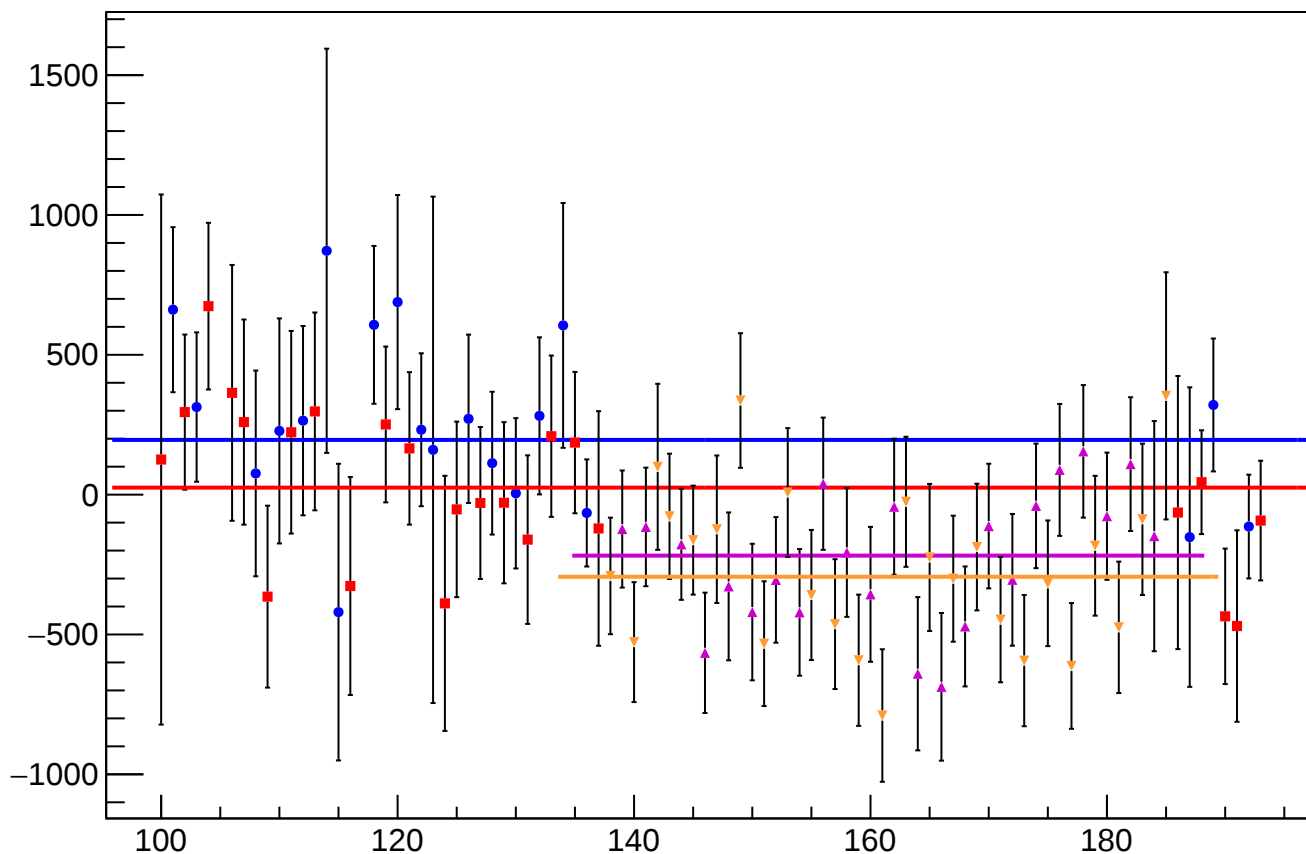
Right: 679.736+/-0.119 χ^2/NDF : 2457758.7/43

In: 670.091+/-0.095 χ^2/NDF : 1342509.8/42

Out: 666.160+/-0.091 χ^2/NDF : 1935180.8/48

All: 668.032+/-0.066 χ^2/NDF : 3278583.9/91

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 195.754 $\pm$ 66.976 χ^2 /NDF: 15.9/19

Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24

Right Out: 25.120 $\pm$ 61.874 χ^2 /NDF: 19.1/23

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

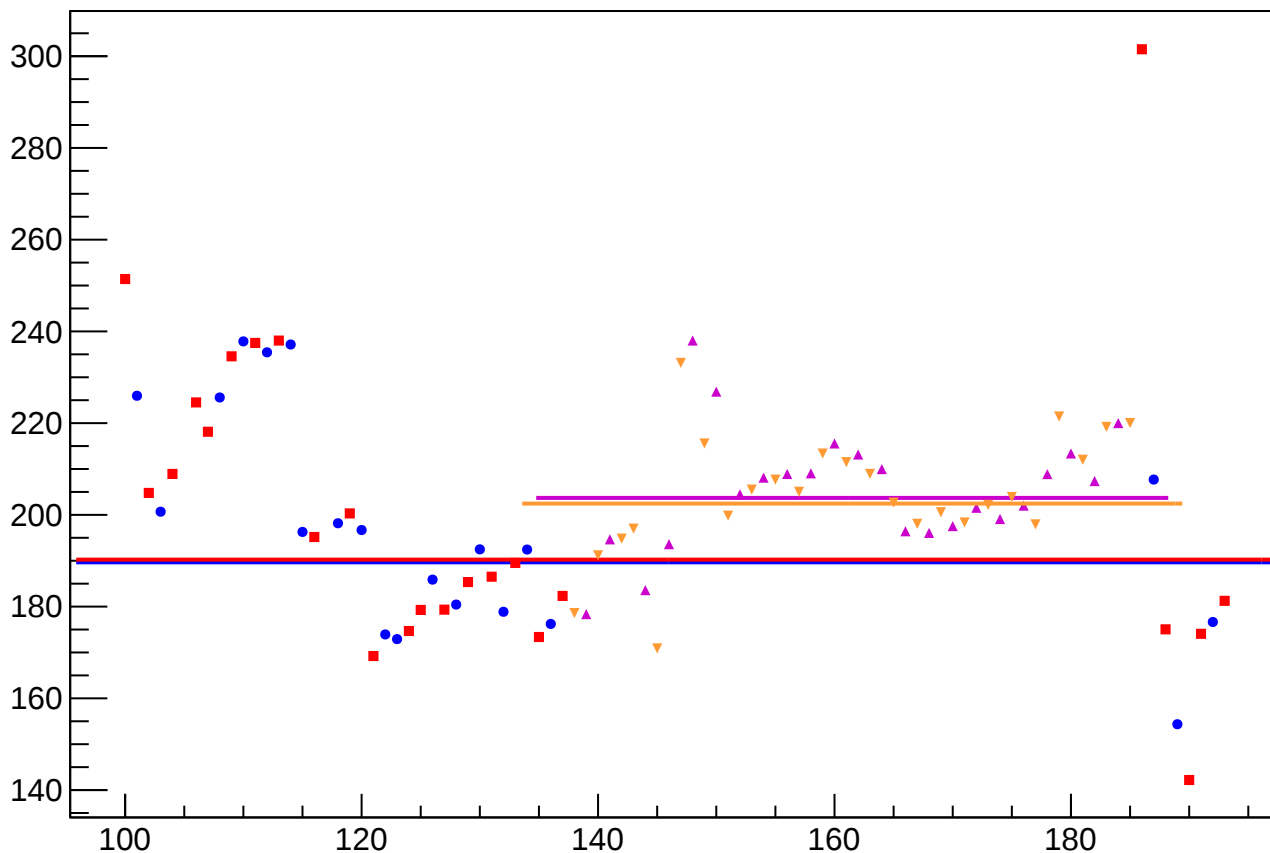
Right: 103.690 $\pm$ 45.448 χ^2 /NDF: 38.4/43

In: -74.422 $\pm$ 39.451 χ^2 /NDF:62.1/42

Out: -176.341 $\pm$ 37.529 χ^2 /NDF:66.1/48

All: -127.925 $\pm$ 27.191 χ^2 /NDF: 131.7/91

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 189.655 $\pm$ 0.047 χ^2 /NDF: 209065.0/19

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 190.239 $\pm$ 0.044 χ^2 /NDF: 389495.4/23

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

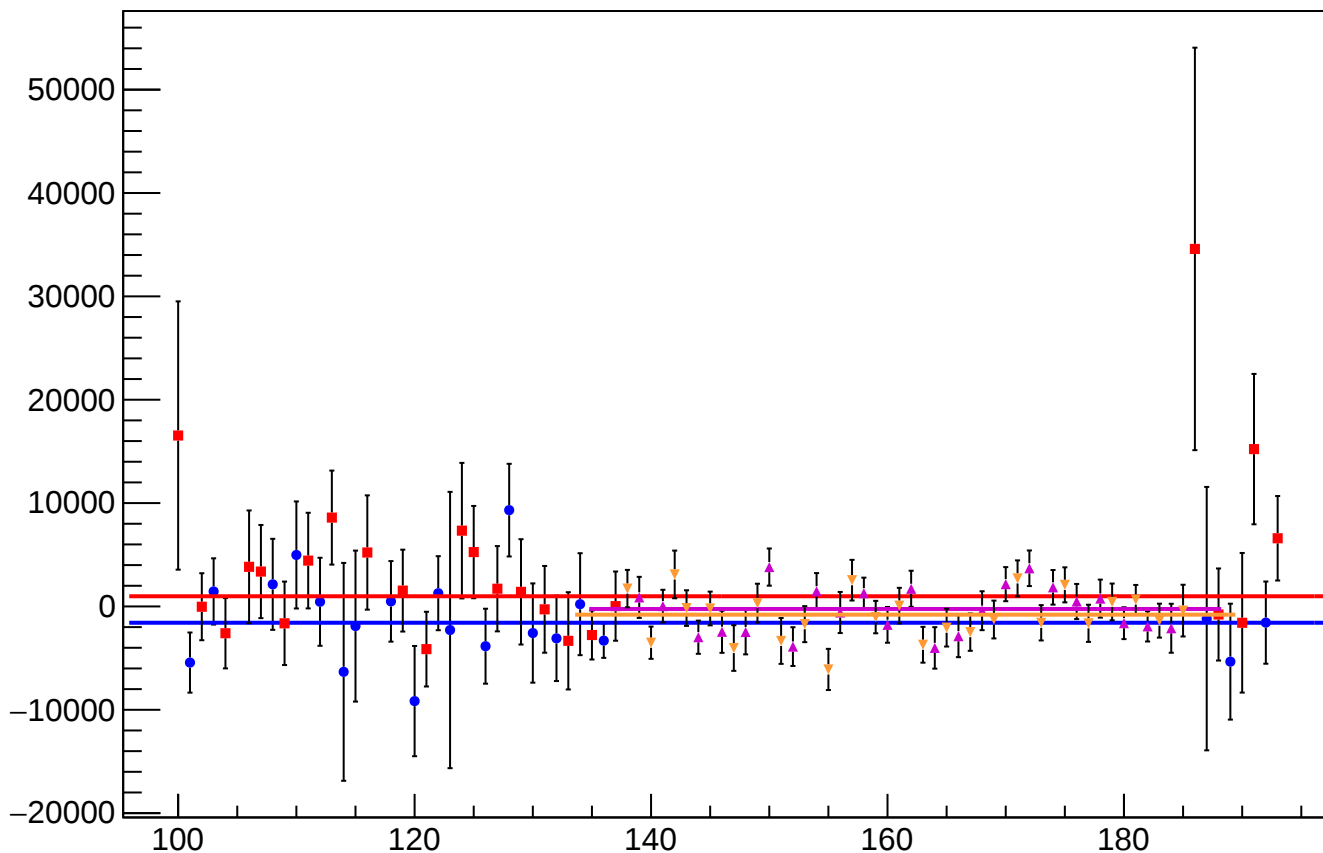
Right: 189.970 $\pm$ 0.032 χ^2 /NDF: 598642.2/43

In: 198.826 $\pm$ 0.028 χ^2 /NDF:402679.8/42

Out: 197.963 $\pm$ 0.027 χ^2 /NDF:597389.7/48

All: 198.373 $\pm$ 0.019 χ^2 /NDF: 1000572.3/91

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1577.744 ± 876.371 χ^2/NDF : 16.5/19

Left Out: -796.528 ± 357.851 χ^2/NDF : 35.7/24

Right Out: 984.865 ± 879.133 χ^2/NDF : 24.0/23

Left In: -245.102 ± 369.846 χ^2/NDF : 35.7/22

Left: -529.902 ± 257.175 χ^2/NDF : 72.6/47

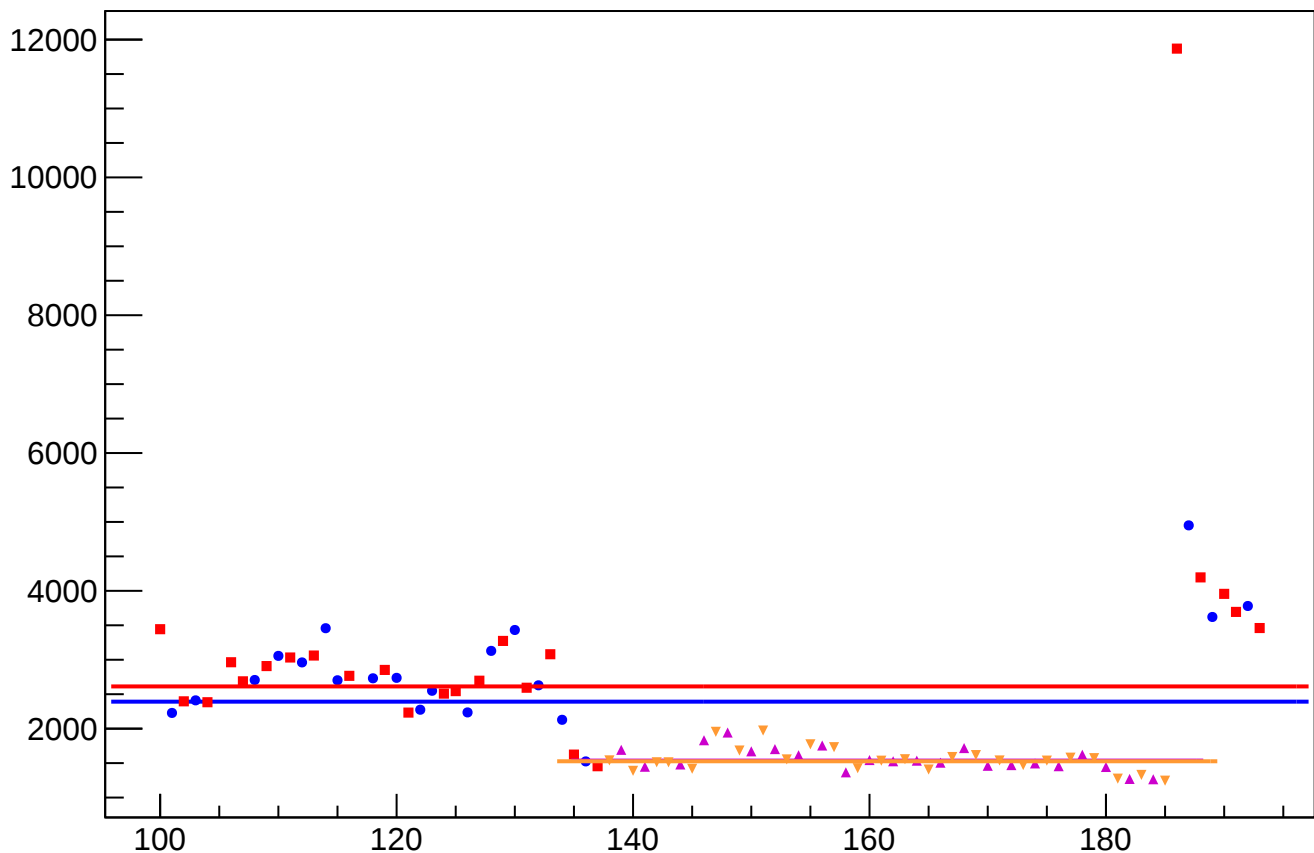
Right: -300.472 ± 620.662 χ^2/NDF : 44.7/43

In: -446.566 ± 340.745 χ^2/NDF : 54.1/42

Out: -543.323 ± 331.444 χ^2/NDF : 63.2/48

All: -496.283 ± 237.587 χ^2/NDF : 117.4/91

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2391.769 $\pm$ 0.620 χ^2 /NDF: 1261435.0/19

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2612.907 $\pm$ 0.622 χ^2 /NDF: 1670142.2/23

Left In: 1536.538 $\pm$ 0.262 χ^2 /NDF: 350373.3/22

Left: 1531.463 $\pm$ 0.182 χ^2 /NDF: 745995.2/47

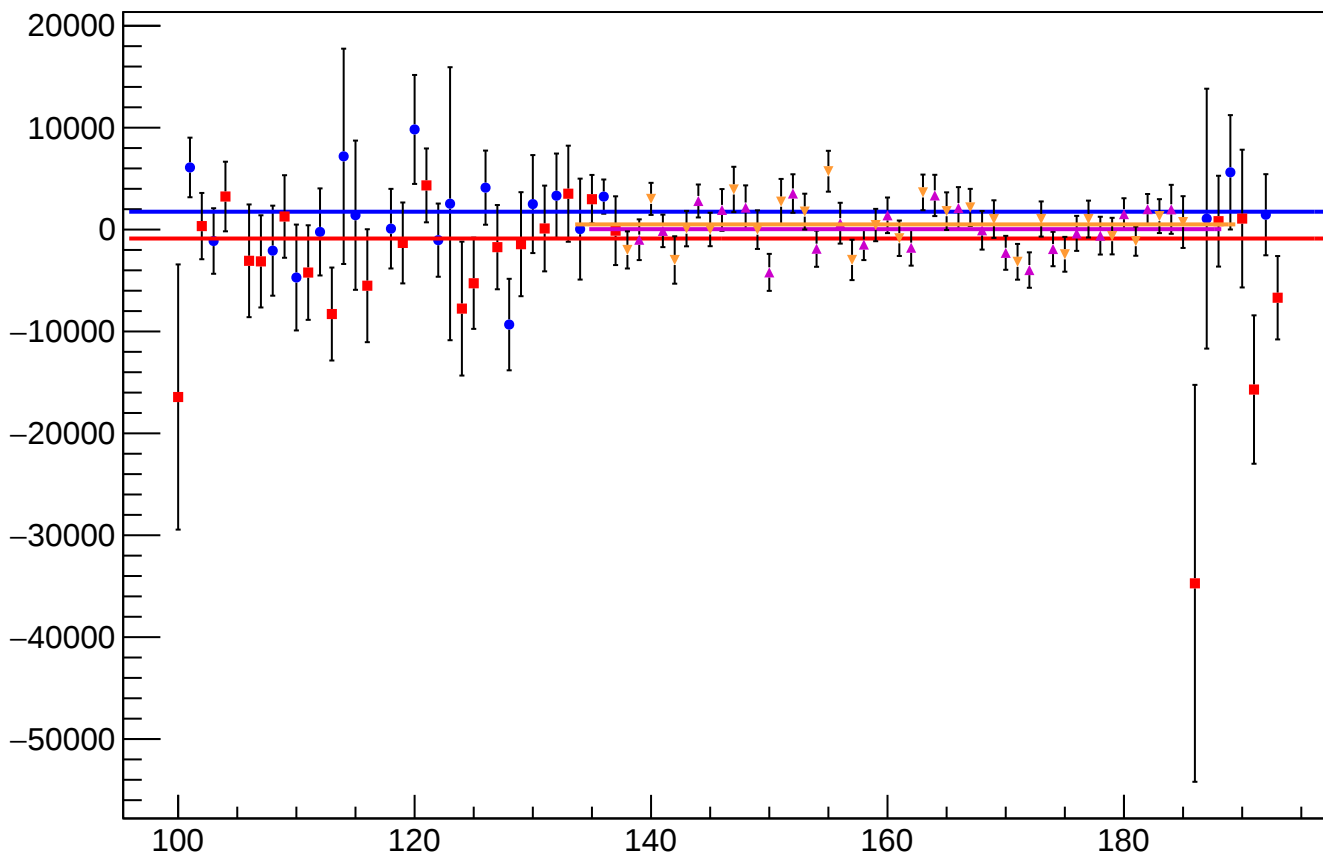
Right: 2501.990 $\pm$ 0.439 χ^2 /NDF: 2995049.0/43

In: 1665.829 $\pm$ 0.241 χ^2 /NDF: 3228544.0/42

Out: 1681.102 $\pm$ 0.234 χ^2 /NDF: 4684144.6/48

All: 1673.677 $\pm$ 0.168 χ^2 /NDF: 7914753.3/91

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1752.598 $\pm$ 880.013 χ^2/NDF : 16.9/19

Left Out: 507.982 $\pm$ 361.172 χ^2/NDF : 35.4/24

Right Out: -877.938 $\pm$ 882.407 χ^2/NDF : 24.8/23

Left In: 40.080 $\pm$ 373.261 χ^2/NDF : 33.6/22

Left: 281.730 $\pm$ 259.556 χ^2/NDF : 69.8/47

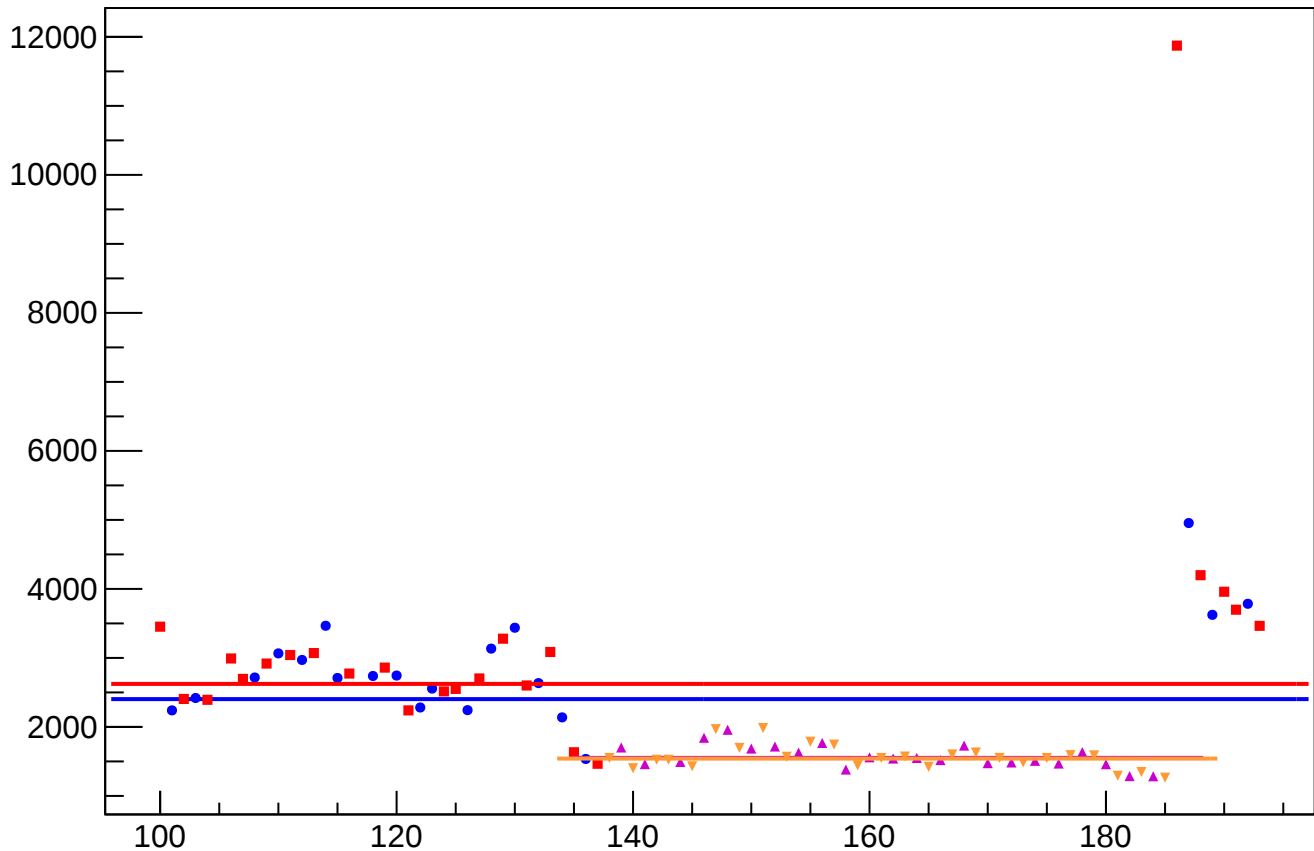
Right: 440.903 $\pm$ 623.108 χ^2/NDF : 46.1/43

In: 301.196 $\pm$ 343.628 χ^2/NDF : 53.7/42

Out: 309.115 $\pm$ 334.257 χ^2/NDF : 62.3/48

All: 305.265 $\pm$ 239.600 χ^2/NDF : 116.0/91

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2403.180+/-0.622 χ^2/NDF : 1244497.3/19

Left Out: 1541.258+/-0.255 χ^2/NDF : 382045.4/24

Right Out: 2623.366+/-0.624 χ^2/NDF : 1655364.9/23

Left In: 1551.063+/-0.264 χ^2/NDF : 338898.9/22

Left: 1546.000+/-0.184 χ^2/NDF : 721657.1/47

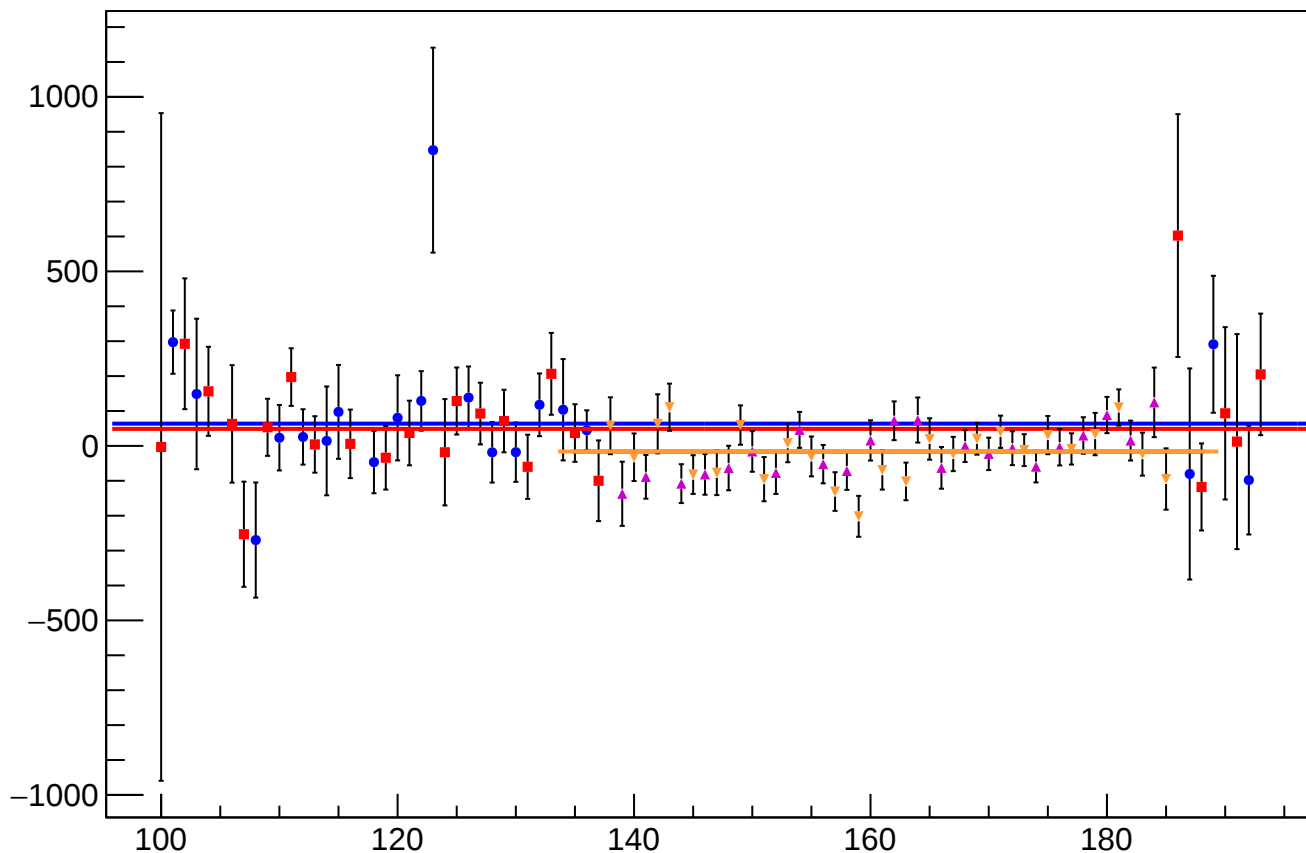
Right: 2512.974+/-0.441 χ^2/NDF : 2962295.6/43

In: 1680.990+/-0.243 χ^2/NDF : 3172683.7/42

Out: 1696.531+/-0.236 χ^2/NDF : 4613523.8/48

All: 1688.975+/-0.169 χ^2/NDF : 7788309.4/91

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 63.763+/-23.285 χ^2/NDF : 26.4/19

Left Out: -16.049+/-11.340 χ^2/NDF : 39.7/24

Right Out: 48.678+/-22.893 χ^2/NDF : 22.2/23

Left In: -16.162+/-11.649 χ^2/NDF : 25.2/22

Left: -16.104+/-8.126 χ^2/NDF : 64.9/47

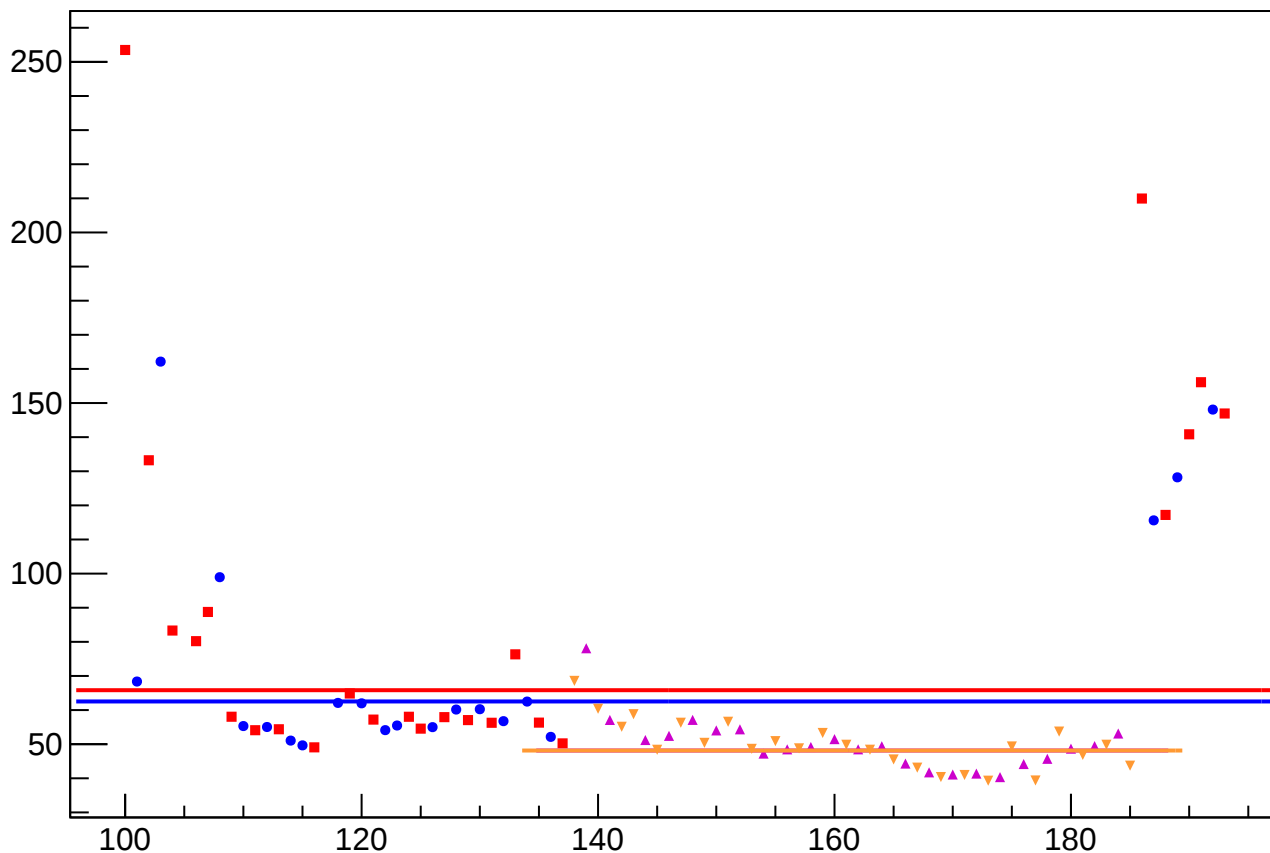
Right: 56.092+/-16.324 χ^2/NDF : 48.9/43

In: -0.161+/-10.418 χ^2/NDF : 61.1/42

Out: -3.296+/-10.162 χ^2/NDF : 68.3/48

All: -1.768+/-7.274 χ^2/NDF : 129.4/91

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.525+/-0.016 χ^2/NDF : 1592154.6/19

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 65.824+/-0.016 χ^2/NDF : 2249700.3/23

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

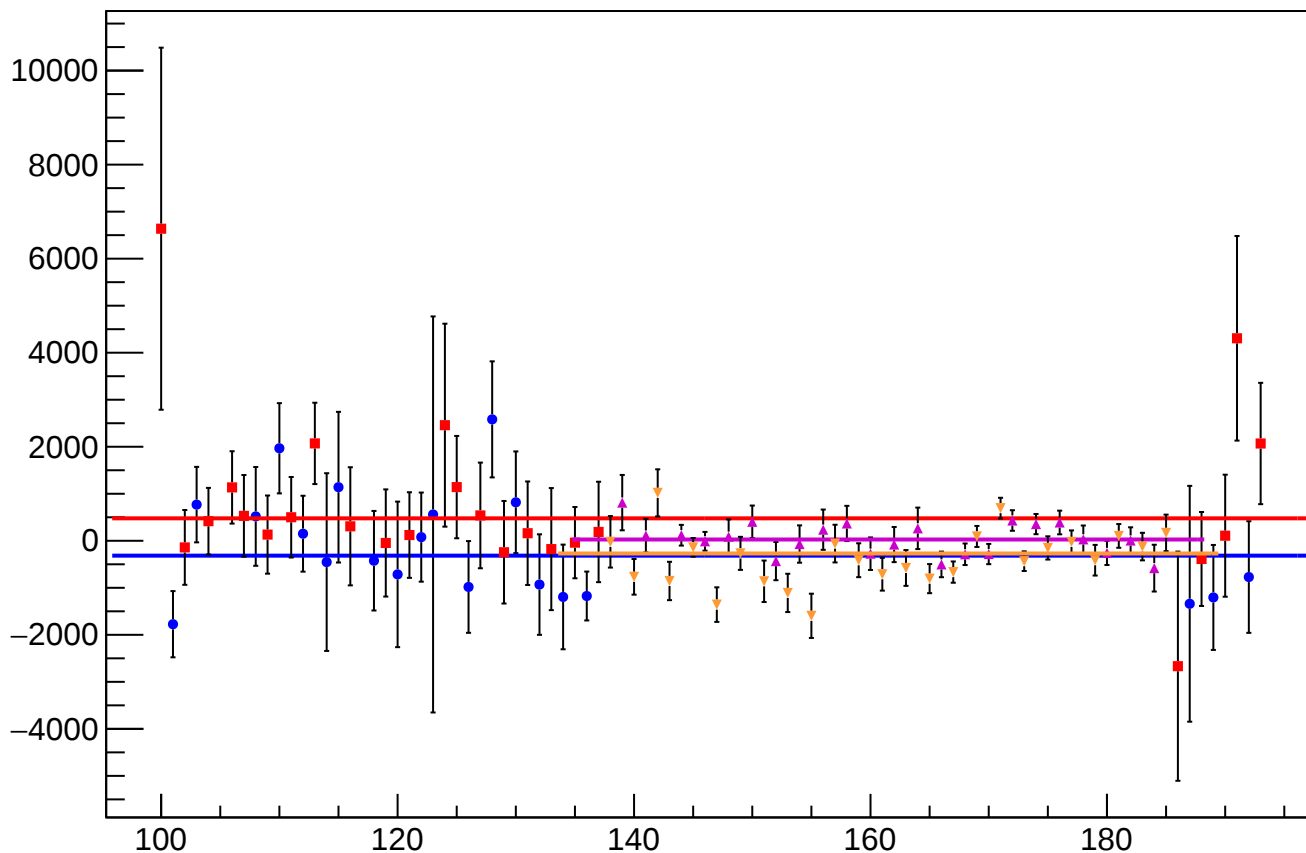
Right: 64.202+/-0.012 χ^2/NDF : 3862276.4/43

In: 51.019+/-0.007 χ^2/NDF : 2777733.3/42

Out: 51.625+/-0.007 χ^2/NDF : 3863197.9/48

All: 51.329+/-0.005 χ^2/NDF : 6644396.6/91

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -316.195 ± 224.382 χ^2/NDF : 25.6/19

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 477.196 ± 209.792 χ^2/NDF : 17.5/23

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

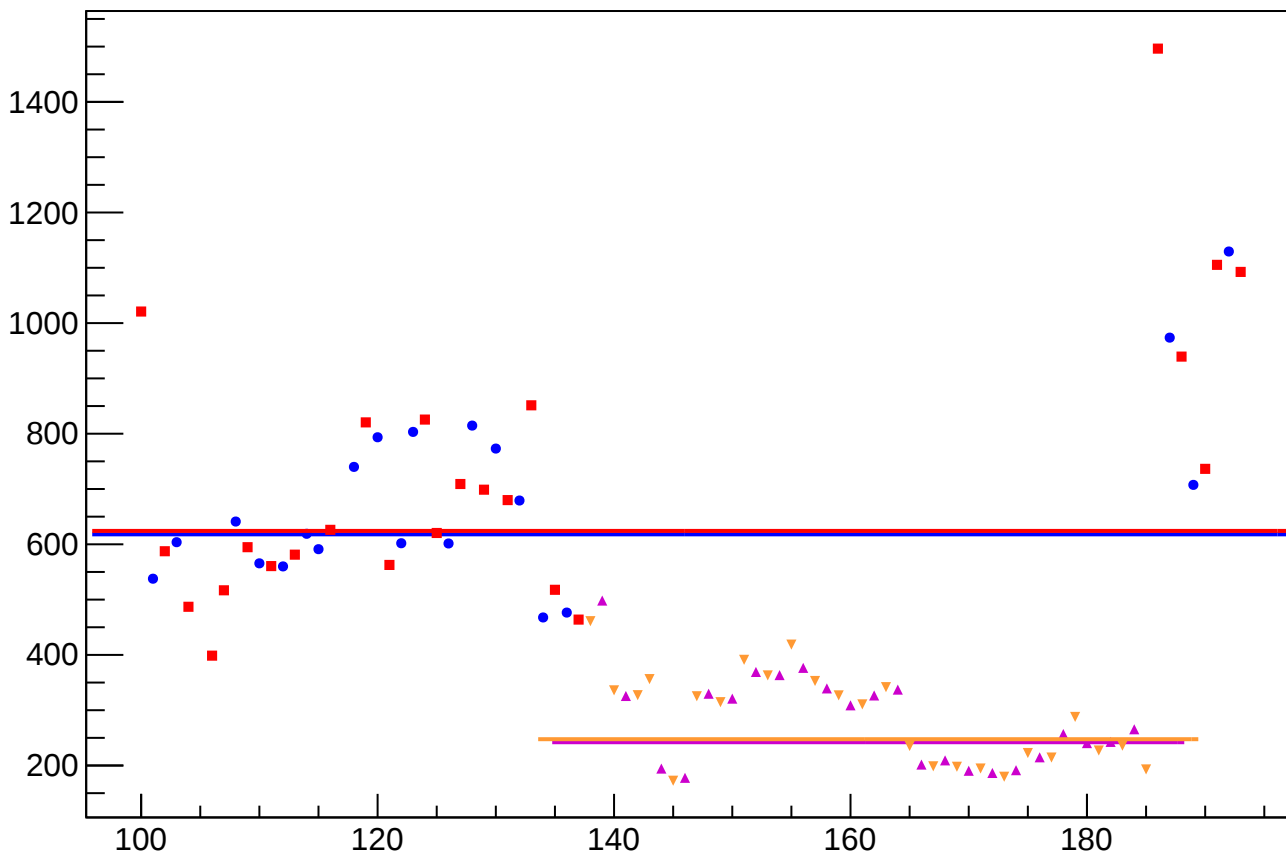
Right: 107.130 ± 153.244 χ^2/NDF : 49.8/43

In: 4.044 ± 58.351 χ^2/NDF : 52.8/42

Out: -213.393 ± 57.845 χ^2/NDF : 99.3/48

All: -105.622 ± 41.080 χ^2/NDF : 159.2/91

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 618.015 $\pm$ 0.159 χ^2/NDF : 809196.6/19

Left Out: 247.570 $\pm$ 0.043 χ^2/NDF :2780931.0/24

Right Out: 624.213 $\pm$ 0.148 χ^2/NDF : 1410349.1/23

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

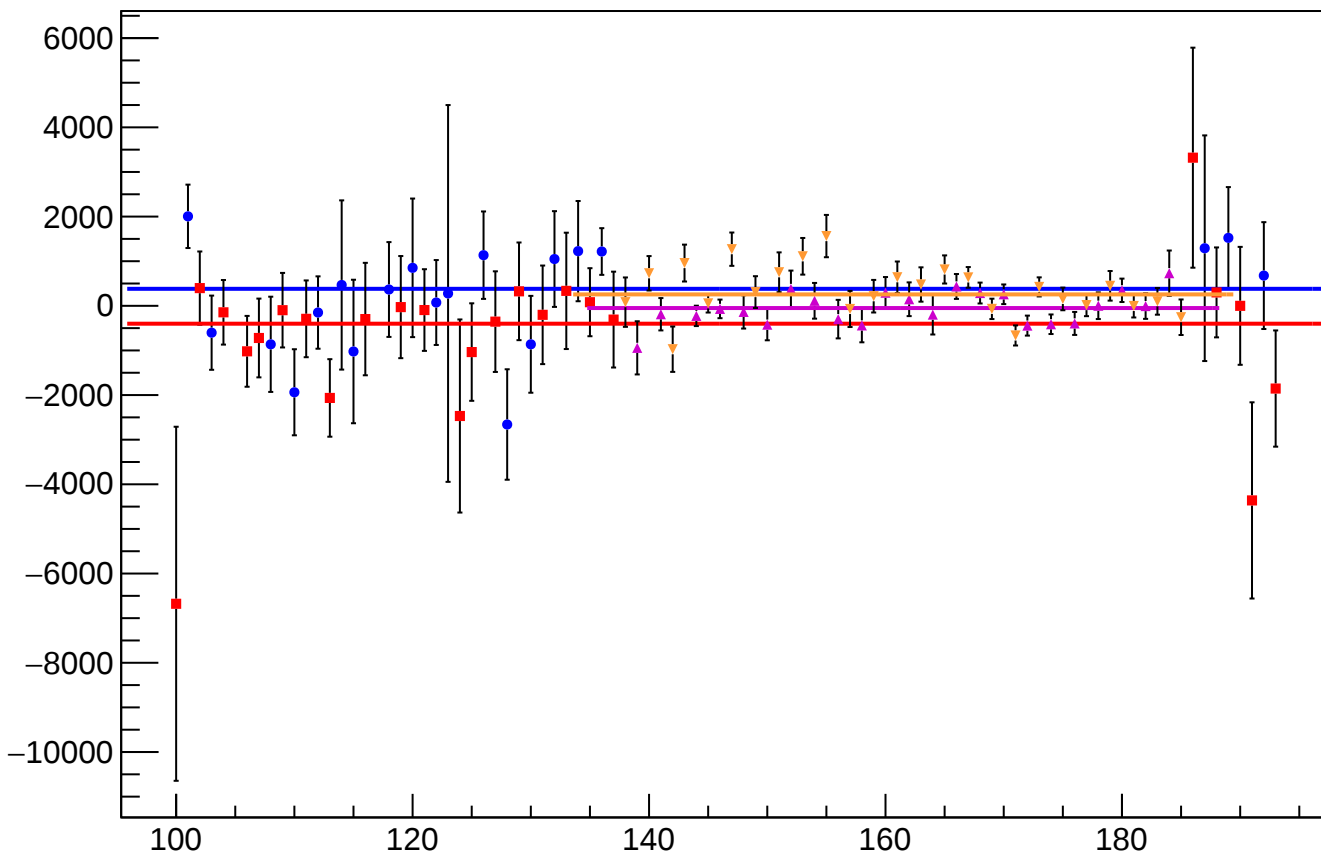
Right: 621.322 $\pm$ 0.108 χ^2/NDF : 2220359.9/43

In: 267.538 $\pm$ 0.041 χ^2/NDF :8508730.9/42

Out: 276.204 $\pm$ 0.041 χ^2/NDF :10147510.4/48

All: 271.909 $\pm$ 0.029 χ^2/NDF : 18678491.6/92

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 381.197+/-226.380 χ^2/NDF : 27.8/19

Left Out: 255.995+/-61.418 χ^2/NDF : 63.6/24

Right Out: -400.584+/-212.193 χ^2/NDF : 18.1/23

Left In: -49.832+/-61.781 χ^2/NDF : 27.5/22

Left: 103.982+/-43.557 χ^2/NDF : 103.4/47

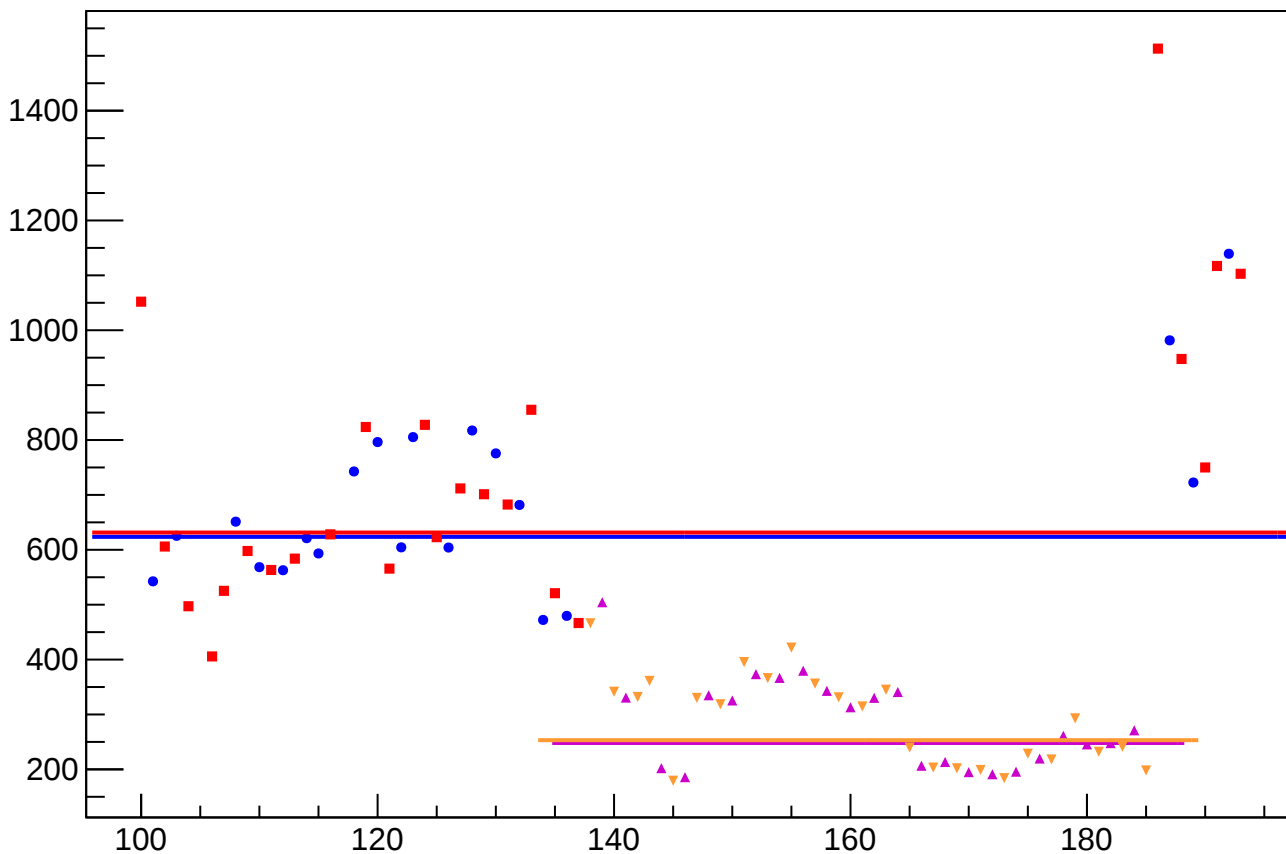
Right: -34.956+/-154.816 χ^2/NDF : 52.3/43

In: -19.954+/-59.601 χ^2/NDF : 58.7/42

Out: 205.240+/-58.997 χ^2/NDF : 90.6/48

All: 93.791+/-41.929 χ^2/NDF : 156.5/91

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 623.604+/-0.160 χ^2/NDF : 809306.4/19

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 631.466+/-0.150 χ^2/NDF : 1387879.6/23

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

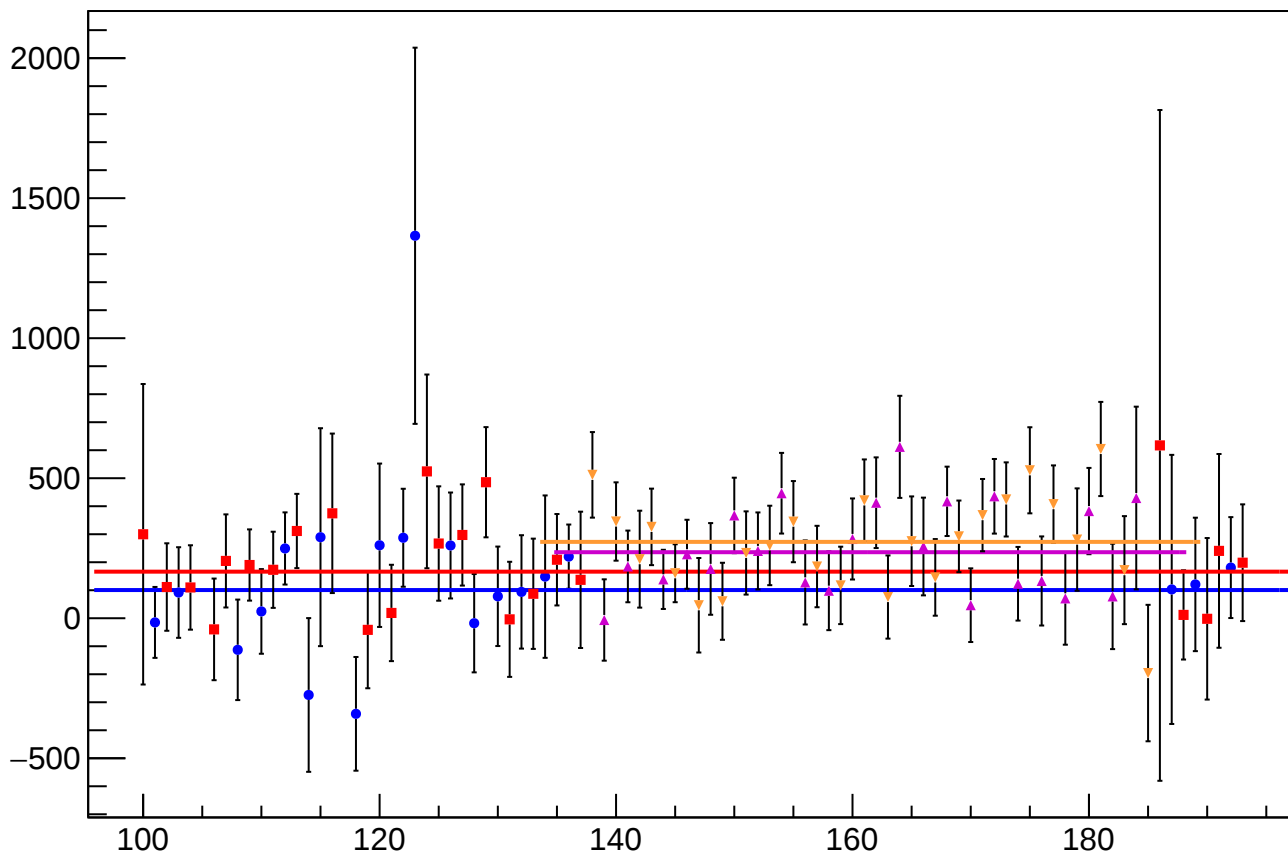
Right: 627.789+/-0.109 χ^2/NDF : 2198470.2/43

In: 274.099+/-0.042 χ^2/NDF : 8274811.2/42

Out: 282.383+/-0.042 χ^2/NDF : 9920190.5/48

All: 278.283+/-0.030 χ^2/NDF : 18214513.5/92

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 100.655+/-41.390 χ^2/NDF : 18.2/19

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 166.350+/-38.543 χ^2/NDF : 12.1/23

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

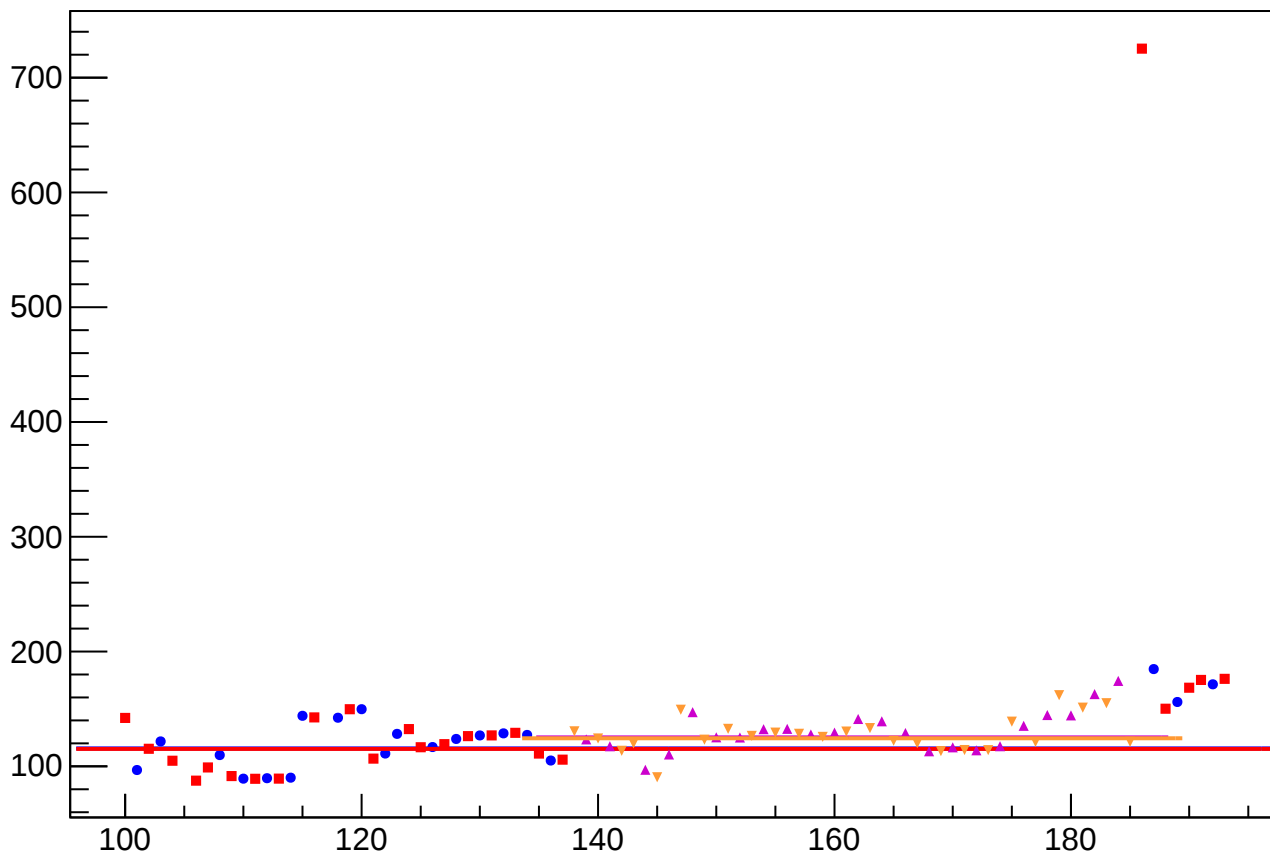
Right: 135.839+/-28.207 χ^2/NDF : 31.6/43

In: 188.784+/-24.413 χ^2/NDF : 49.7/42

Out: 233.873+/-23.286 χ^2/NDF : 44.3/48

All: 212.393+/-16.850 χ^2/NDF : 95.8/91

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 115.586 $\pm$ 0.029 χ^2 /NDF: 615529.2/19

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 115.169 $\pm$ 0.027 χ^2 /NDF: 1326254.3/23

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

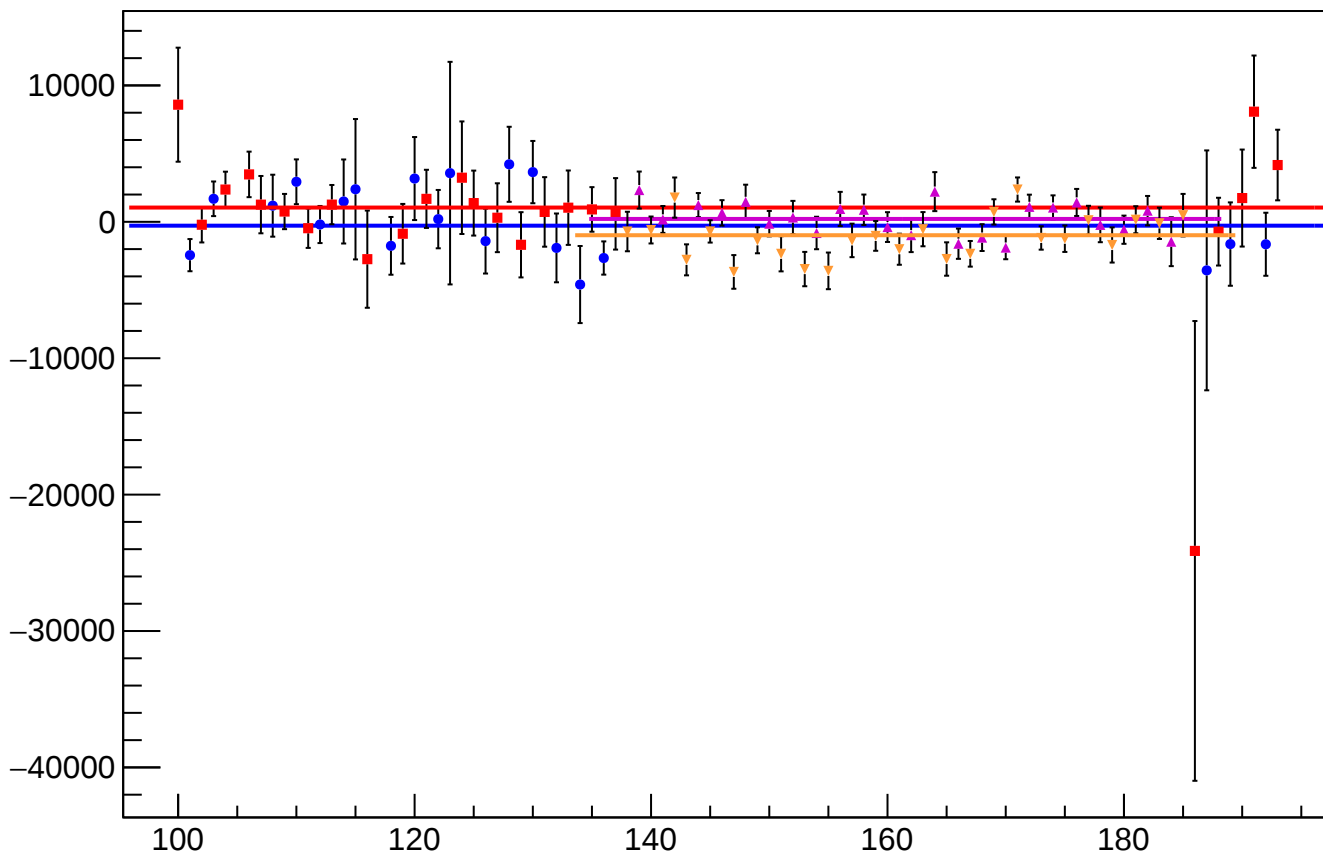
Right: 115.363 $\pm$ 0.020 χ^2 /NDF: 1941892.5/43

In: 121.859 $\pm$ 0.017 χ^2 /NDF: 1187352.7/42

Out: 121.049 $\pm$ 0.016 χ^2 /NDF: 1939290.2/48

All: 121.435 $\pm$ 0.012 χ^2 /NDF: 3127795.2/91

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -282.633+/-450.962 χ^2/NDF : 25.8/19

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1046.172+/-418.194 χ^2/NDF : 19.4/23

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

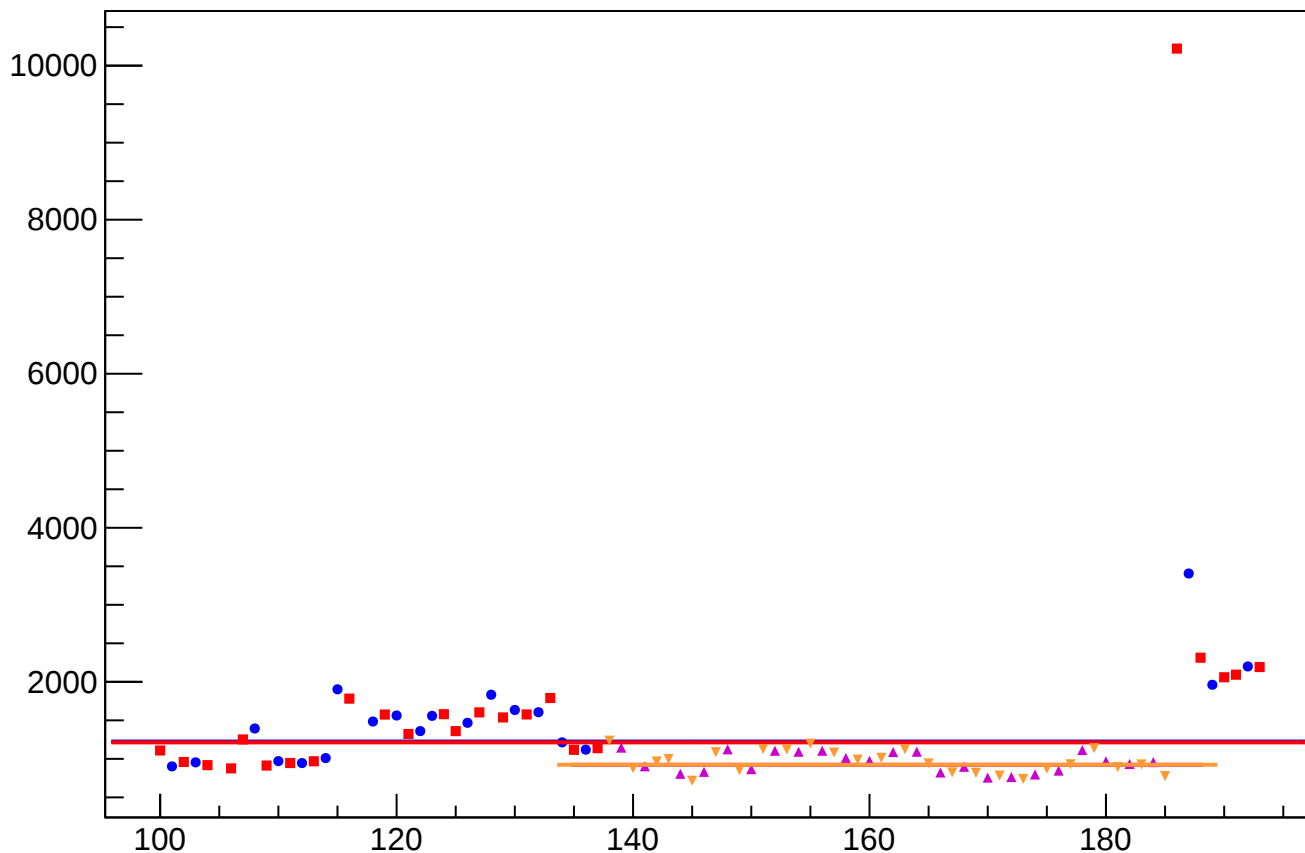
Right: 431.797+/-306.638 χ^2/NDF : 49.8/43

In: 114.140+/-200.109 χ^2/NDF : 52.4/42

Out: -549.219+/-193.326 χ^2/NDF : 85.1/48

All: -228.972+/-139.038 χ^2/NDF : 143.2/91

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1224.630+/-0.319 χ^2/NDF : 1333318.6/19

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1214.096+/-0.296 χ^2/NDF : 2307509.3/23

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

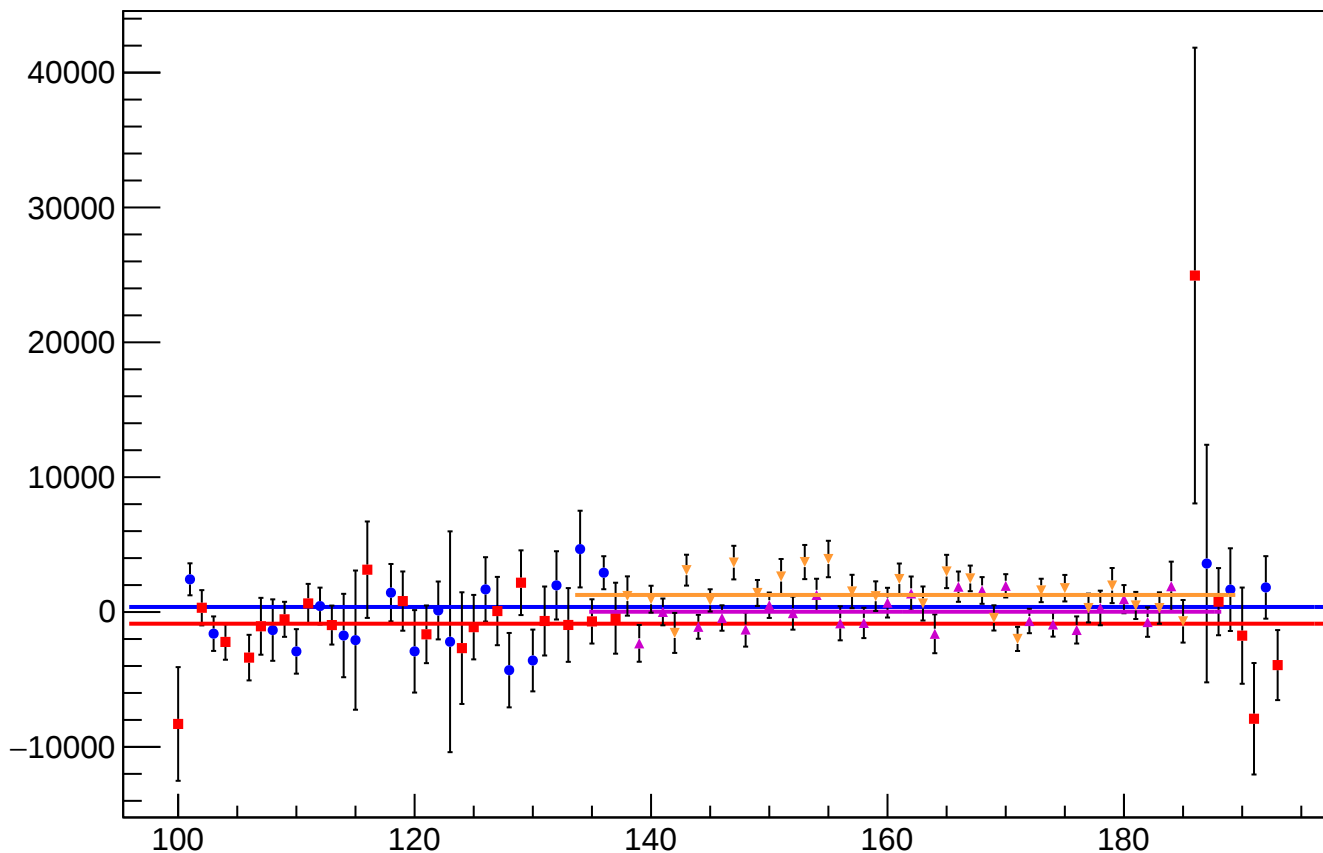
Right: 1218.966+/-0.217 χ^2/NDF : 3641414.7/43

In: 981.785+/-0.141 χ^2/NDF : 2690199.0/42

Out: 985.671+/-0.137 χ^2/NDF : 3909156.8/48

All: 983.795+/-0.098 χ^2/NDF : 6599745.8/91

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 376.026+/-453.126 χ^2/NDF : 26.0/19

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -864.568+/-420.399 χ^2/NDF : 19.4/23

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

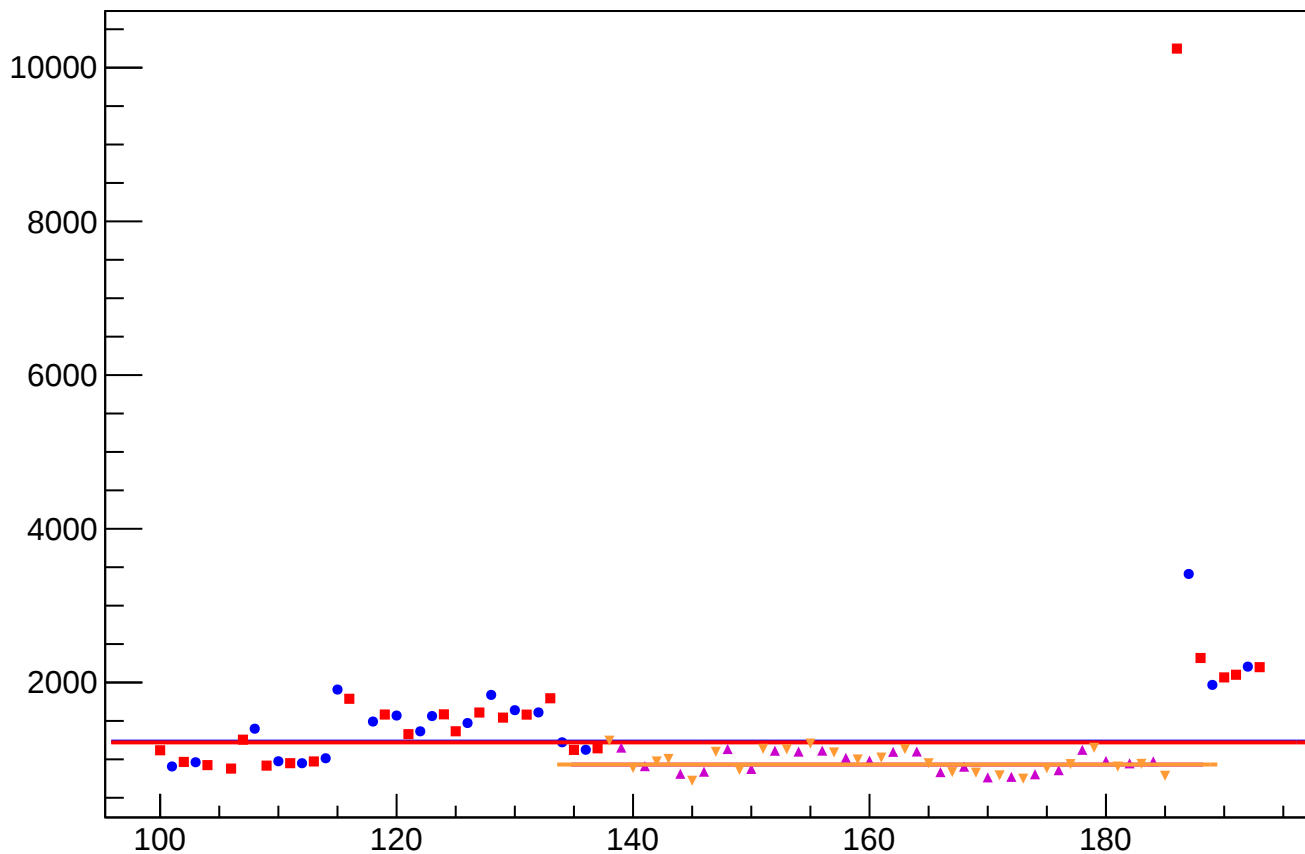
Right: -290.687+/-308.188 χ^2/NDF : 49.5/43

In: 93.453+/-201.875 χ^2/NDF :53.7/42

Out: 808.585+/-195.015 χ^2/NDF :84.5/48

All: 463.376+/-140.259 χ^2/NDF : 144.7/91

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1230.912 $\pm$ 0.320 χ^2 /NDF: 1324851.9/19

Left Out: 932.764 $\pm$ 0.156 χ^2 /NDF: 829798.4/24

Right Out: 1220.649 $\pm$ 0.297 χ^2 /NDF: 2295915.4/23

Left In: 931.493 $\pm$ 0.159 χ^2 /NDF: 624436.4/22

Left: 932.144 $\pm$ 0.111 χ^2 /NDF: 1454267.3/47

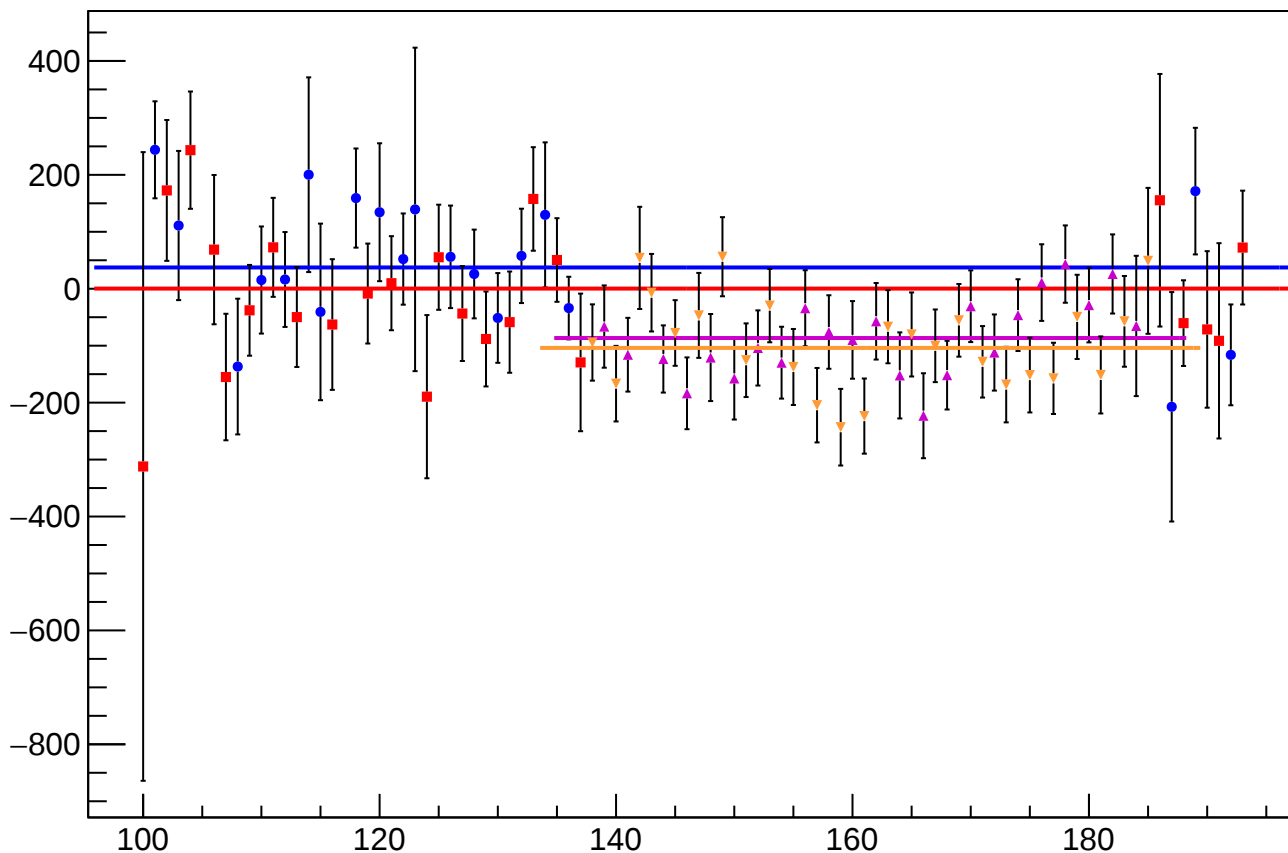
Right: 1225.397 $\pm$ 0.218 χ^2 /NDF: 3621318.7/43

In: 990.923 $\pm$ 0.143 χ^2 /NDF: 2649231.9/42

Out: 994.713 $\pm$ 0.138 χ^2 /NDF: 3861774.6/48

All: 992.883 $\pm$ 0.099 χ^2 /NDF: 6511371.1/91

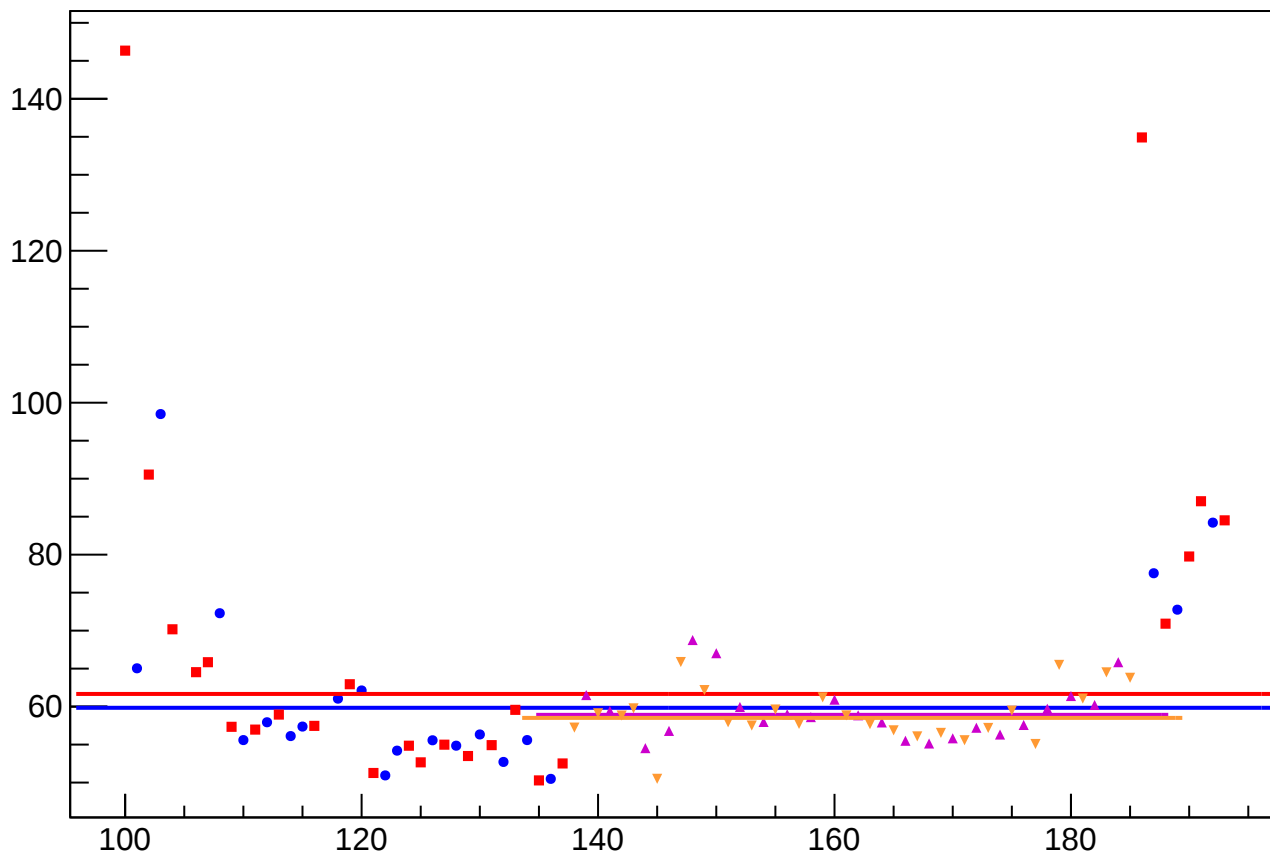
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 37.368 $\pm$ 21.376 χ^2/NDF : 21.9/19
 Left Out: -103.899 $\pm$ 13.642 χ^2/NDF :30.0/24
 Right Out: 0.271 $\pm$ 20.352 χ^2/NDF : 22.4/23
 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: 17.910 $\pm$ 14.740 χ^2/NDF : 45.9/43
 In: -48.901 $\pm$ 11.782 χ^2/NDF :66.7/42
 Out: -71.604 $\pm$ 11.332 χ^2/NDF :70.5/48
 All: -60.694 $\pm$ 8.167 χ^2/NDF : 139.1/91

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 59.843 $\pm$ 0.015 χ^2 /NDF: 522266.3/19

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF: 123221.6/24

Right Out: 61.666 $\pm$ 0.014 χ^2 /NDF: 781001.4/23

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

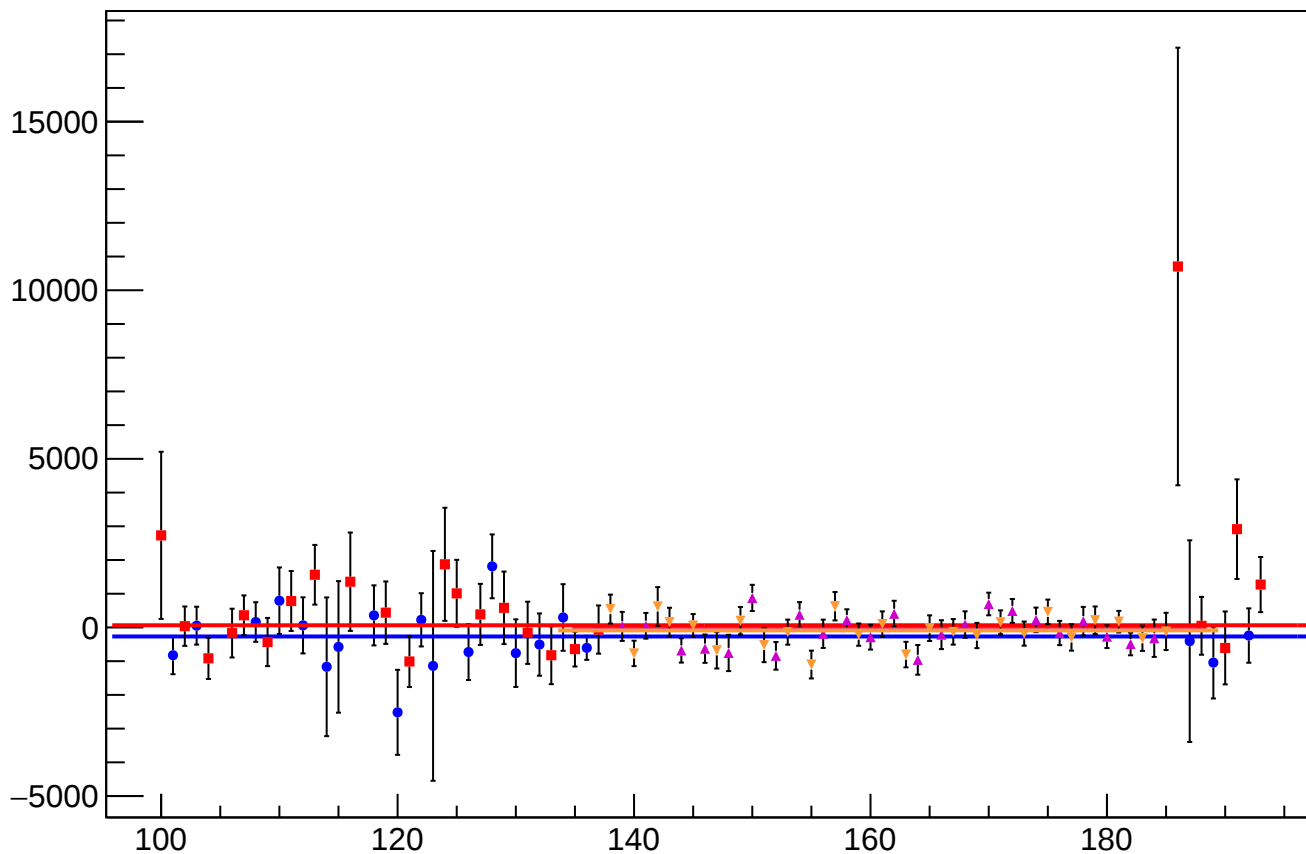
Right: 60.799 $\pm$ 0.010 χ^2 /NDF: 1310896.3/43

In: 59.196 $\pm$ 0.008 χ^2 /NDF: 634866.6/42

Out: 59.490 $\pm$ 0.008 χ^2 /NDF: 937337.4/48

All: 59.349 $\pm$ 0.006 χ^2 /NDF: 1572853.6/91

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -267.492 ± 176.944 $\chi^2/\text{NDF}: 14.7/19$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 64.612 ± 170.669 $\chi^2/\text{NDF}: 25.5/23$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

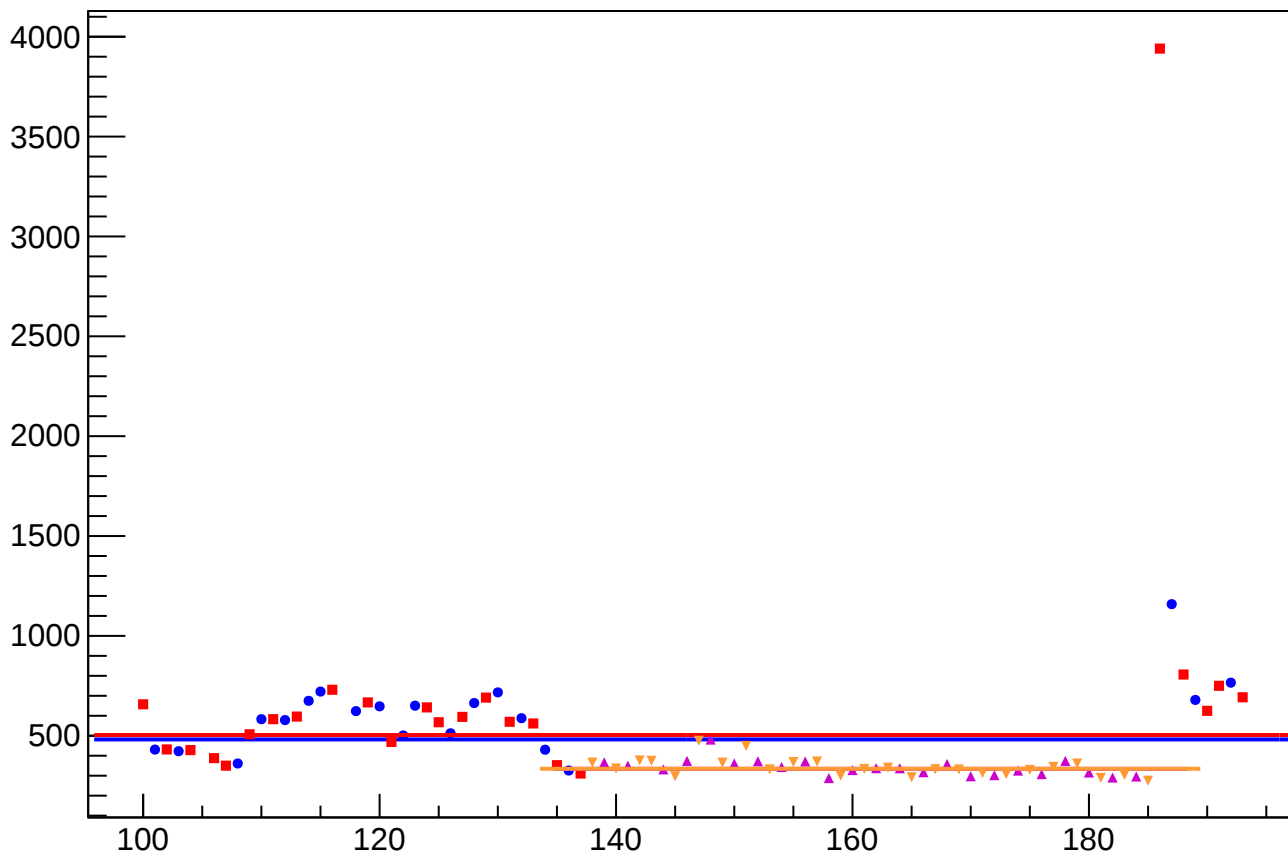
Right: -95.448 ± 122.840 $\chi^2/\text{NDF}: 42.0/43$

In: -86.291 ± 73.309 $\chi^2/\text{NDF}: 51.3/42$

Out: -60.873 ± 71.360 $\chi^2/\text{NDF}: 53.9/48$

All: -73.240 ± 51.134 $\chi^2/\text{NDF}: 105.2/91$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 481.619+/-0.125 χ^2/NDF : 1331744.0/19

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 503.670+/-0.121 χ^2/NDF : 1845296.2/23

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

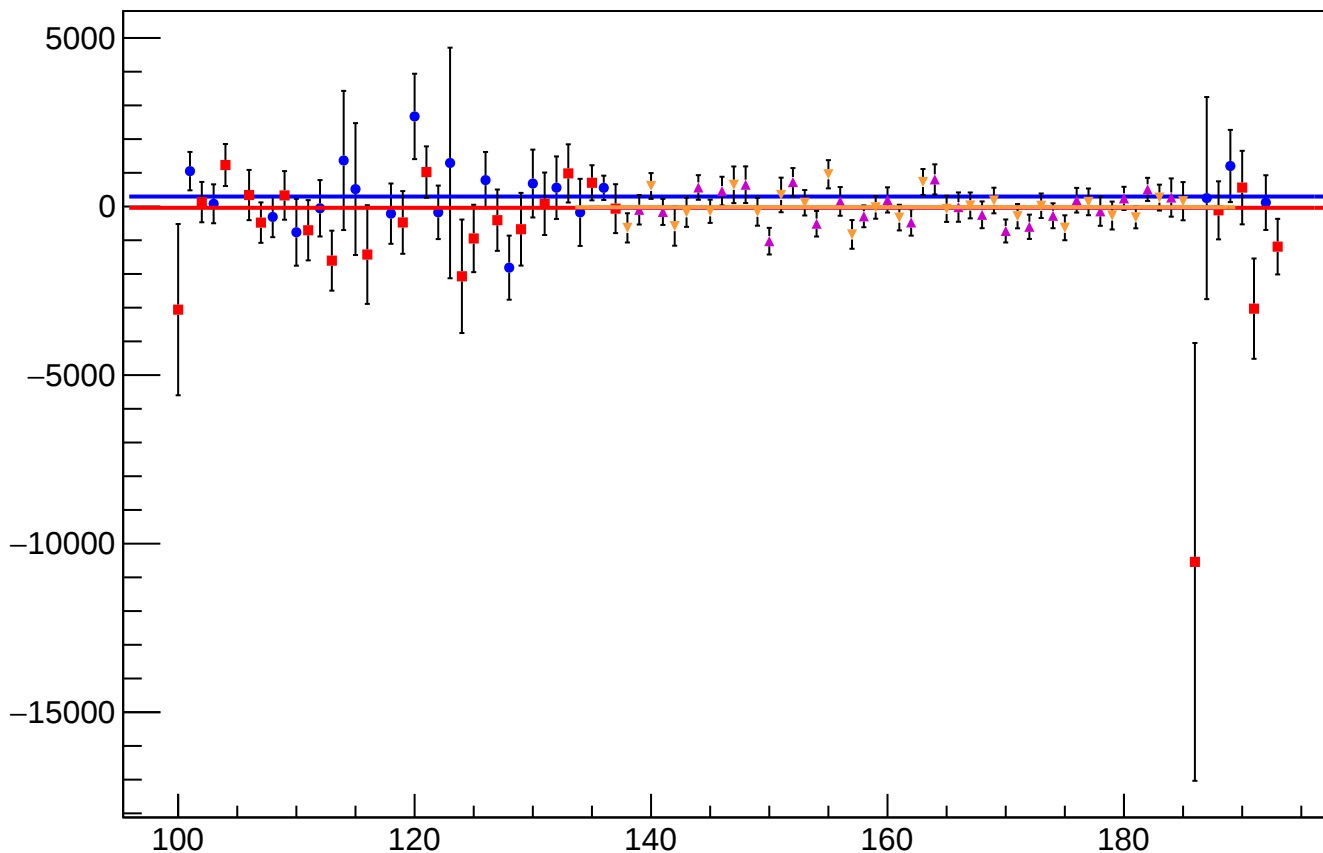
Right: 493.042+/-0.087 χ^2/NDF : 3193130.8/43

In: 359.461+/-0.052 χ^2/NDF : 2879728.1/42

Out: 364.280+/-0.050 χ^2/NDF : 3953379.8/48

All: 361.935+/-0.036 χ^2/NDF : 6837546.3/91

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 296.388 ± 178.952 χ^2/NDF : 15.8/19

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -37.997 ± 172.653 χ^2/NDF : 28.6/23

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

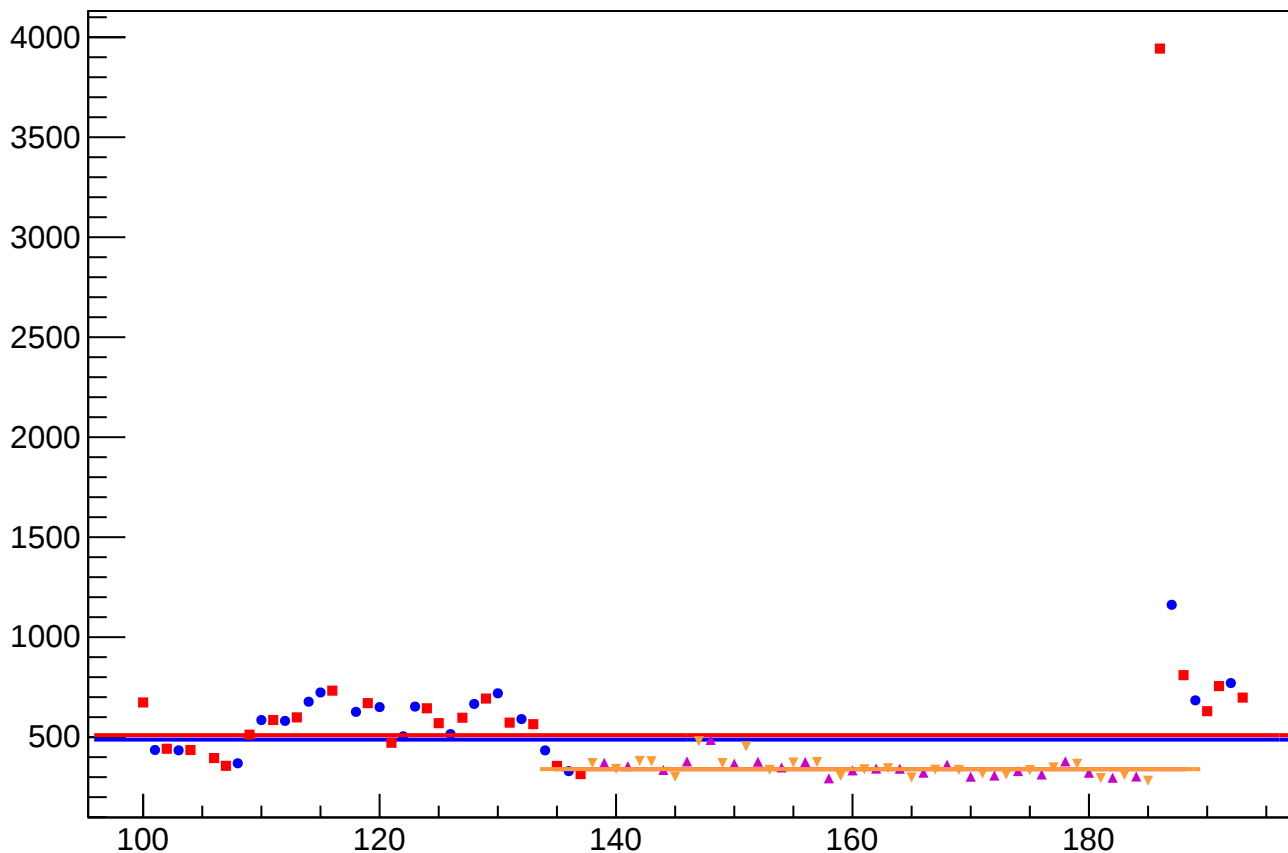
Right: 123.208 ± 124.251 χ^2/NDF : 46.1/43

In: 24.967 ± 74.426 χ^2/NDF : 52.6/42

Out: -23.906 ± 72.446 χ^2/NDF : 55.8/48

All: -0.128 ± 51.913 χ^2/NDF : 108.6/91

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 487.790 $\pm$ 0.127 χ^2 /NDF: 1291136.6/19

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 510.044 $\pm$ 0.122 χ^2 /NDF: 1801385.0/23

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

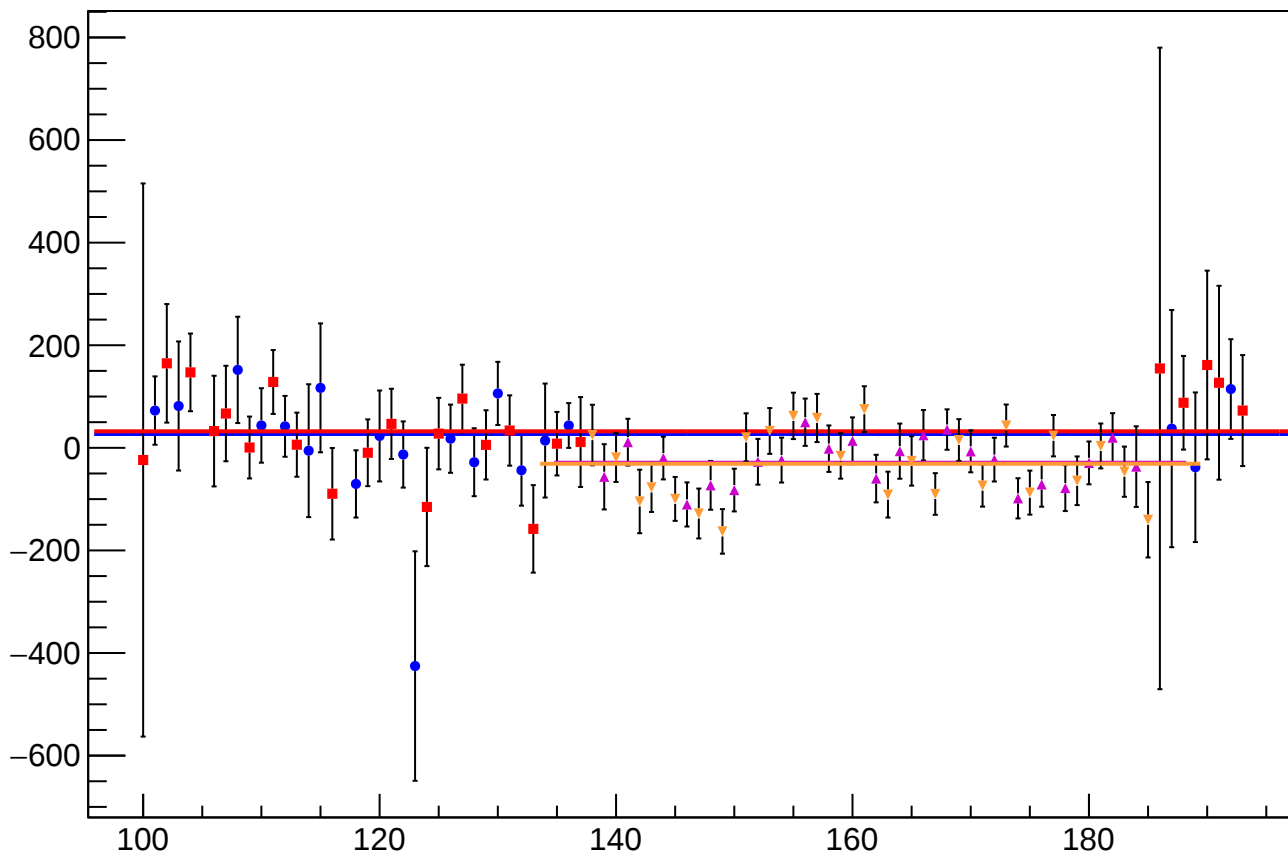
Right: 499.316 $\pm$ 0.088 χ^2 /NDF: 3108540.9/43

In: 365.250 $\pm$ 0.053 χ^2 /NDF: 2804892.6/42

Out: 370.135 $\pm$ 0.051 χ^2 /NDF: 3864226.3/48

All: 367.758 $\pm$ 0.037 χ^2 /NDF: 6673542.9/91

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 27.023 $\pm$ 17.401 χ^2 /NDF: 14.1/19

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 32.238 $\pm$ 16.772 χ^2 /NDF: 18.1/23

Left In: -29.055 $\pm$ 9.449 χ^2 /NDF:22.4/22

Left: -30.089 $\pm$ 6.581 χ^2 /NDF: 75.1/47

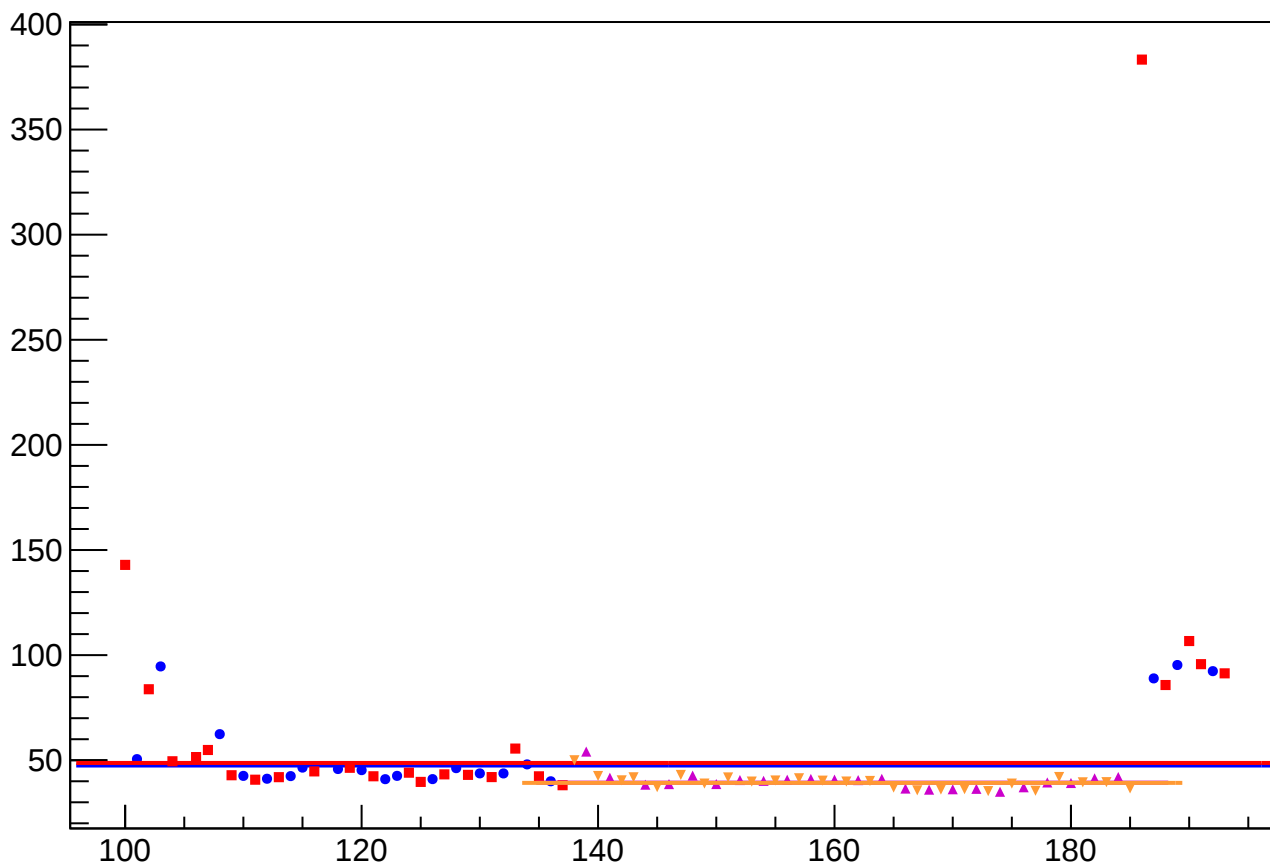
Right: 29.727 $\pm$ 12.076 χ^2 /NDF: 32.2/43

In: -16.284 $\pm$ 8.304 χ^2 /NDF:44.5/42

Out: -16.496 $\pm$ 8.046 χ^2 /NDF:81.7/48

All: -16.393 $\pm$ 5.778 χ^2 /NDF: 126.2/91

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 47.493+/-0.012 χ^2/NDF : 1182655.6/19

Left Out: 39.235+/-0.006 χ^2/NDF : 201960.7/24

Right Out: 48.712+/-0.012 χ^2/NDF : 2036340.9/23

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

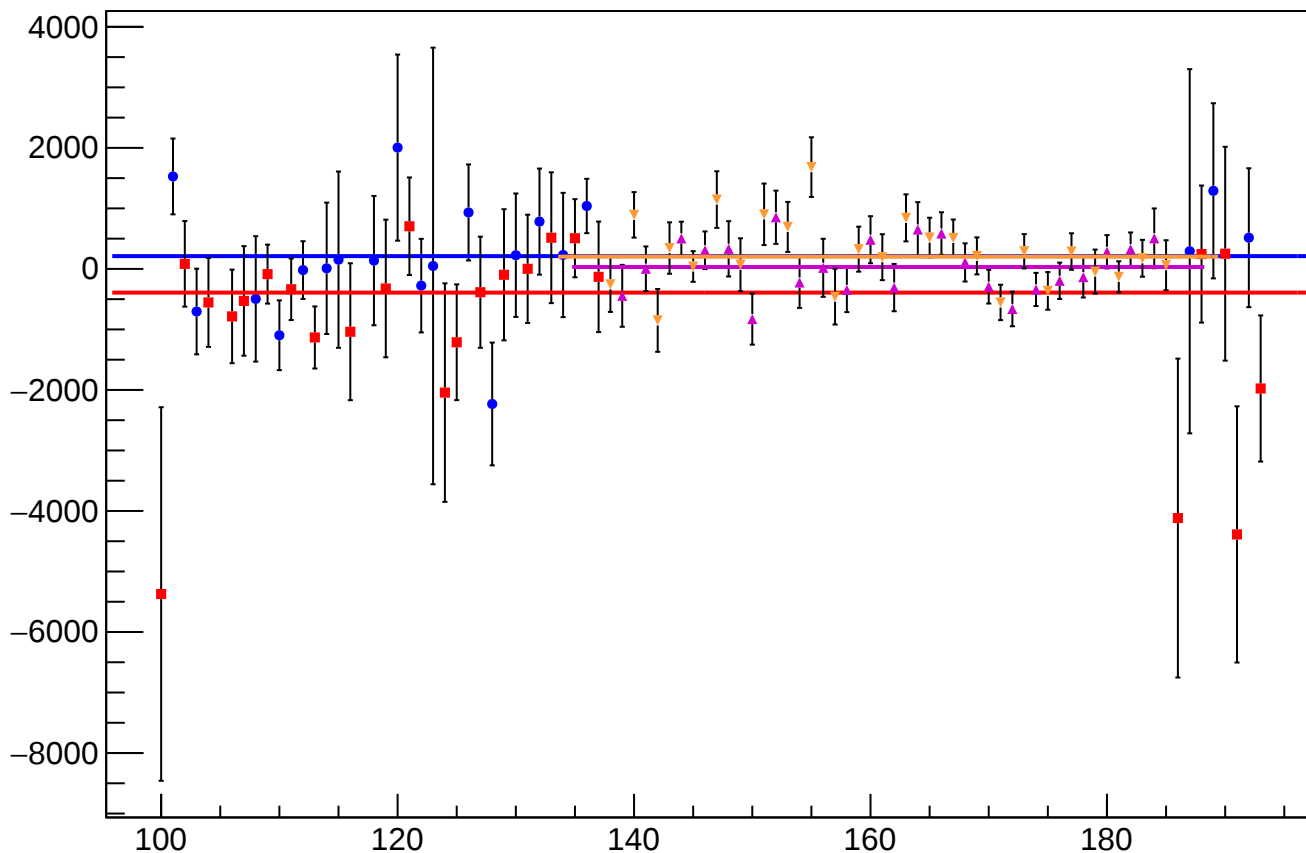
Right: 48.125+/-0.009 χ^2/NDF : 3224082.9/43

In: 41.195+/-0.006 χ^2/NDF : 1737523.6/42

Out: 41.416+/-0.006 χ^2/NDF : 2729877.2/48

All: 41.309+/-0.004 χ^2/NDF : 4468127.7/91

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 211.091 $\pm$ 184.650 χ^2 /NDF: 24.8/19

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -391.575 $\pm$ 173.754 χ^2 /NDF: 20.4/23

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

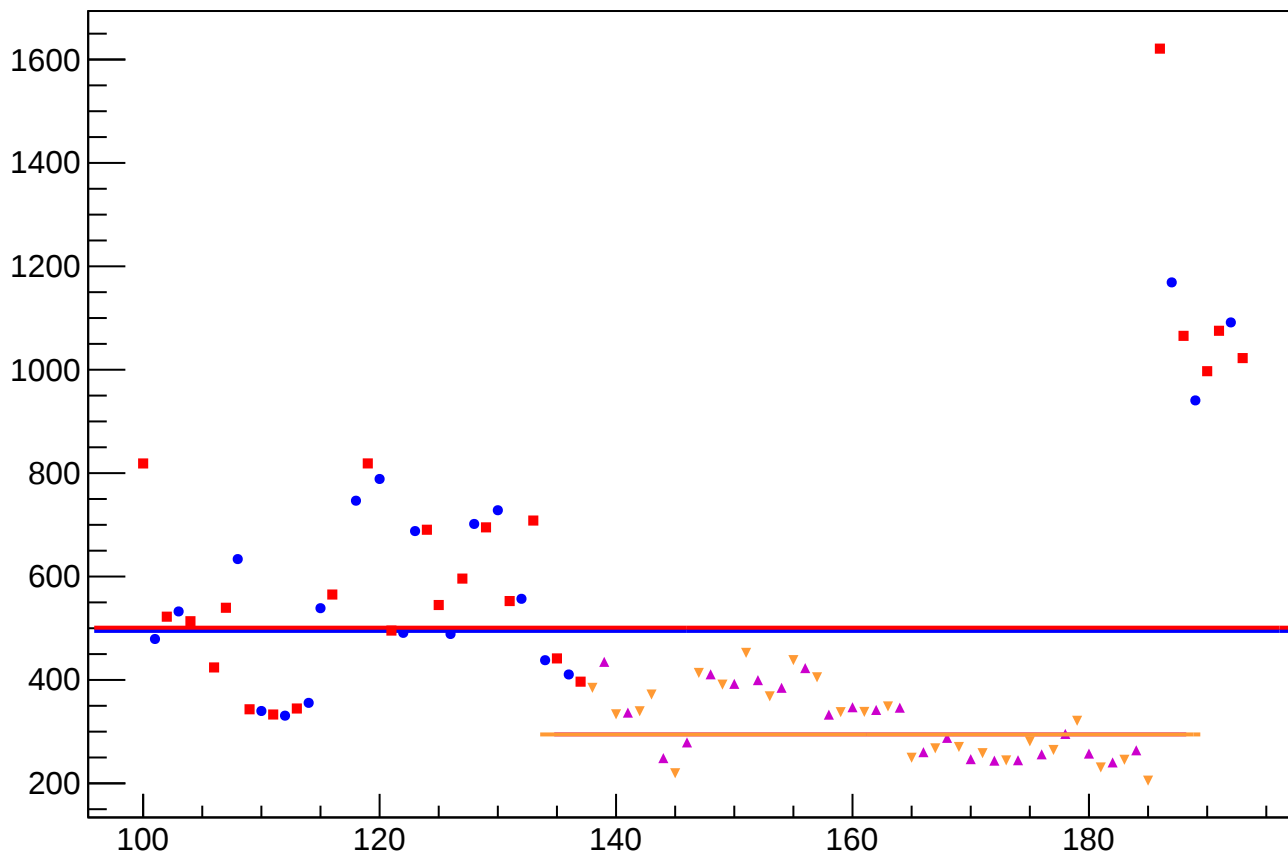
Right: -108.546 $\pm$ 126.539 χ^2 /NDF: 50.8/43

In: 55.301 $\pm$ 67.162 χ^2 /NDF:59.0/42

Out: 118.562 $\pm$ 65.268 χ^2 /NDF:75.2/48

All: 87.836 $\pm$ 46.807 χ^2 /NDF: 134.7/91

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 494.835 $\pm$ 0.131 χ^2 /NDF: 1753943.6/19

Left Out: 294.591 $\pm$ 0.050 χ^2 /NDF: 1680474.5/24

Right Out: 501.082 $\pm$ 0.123 χ^2 /NDF: 2594310.3/23

Left In: 294.722 $\pm$ 0.051 χ^2 /NDF: 1297310.3/22

Left: 294.655 $\pm$ 0.036 χ^2 /NDF: 2977788.1/47

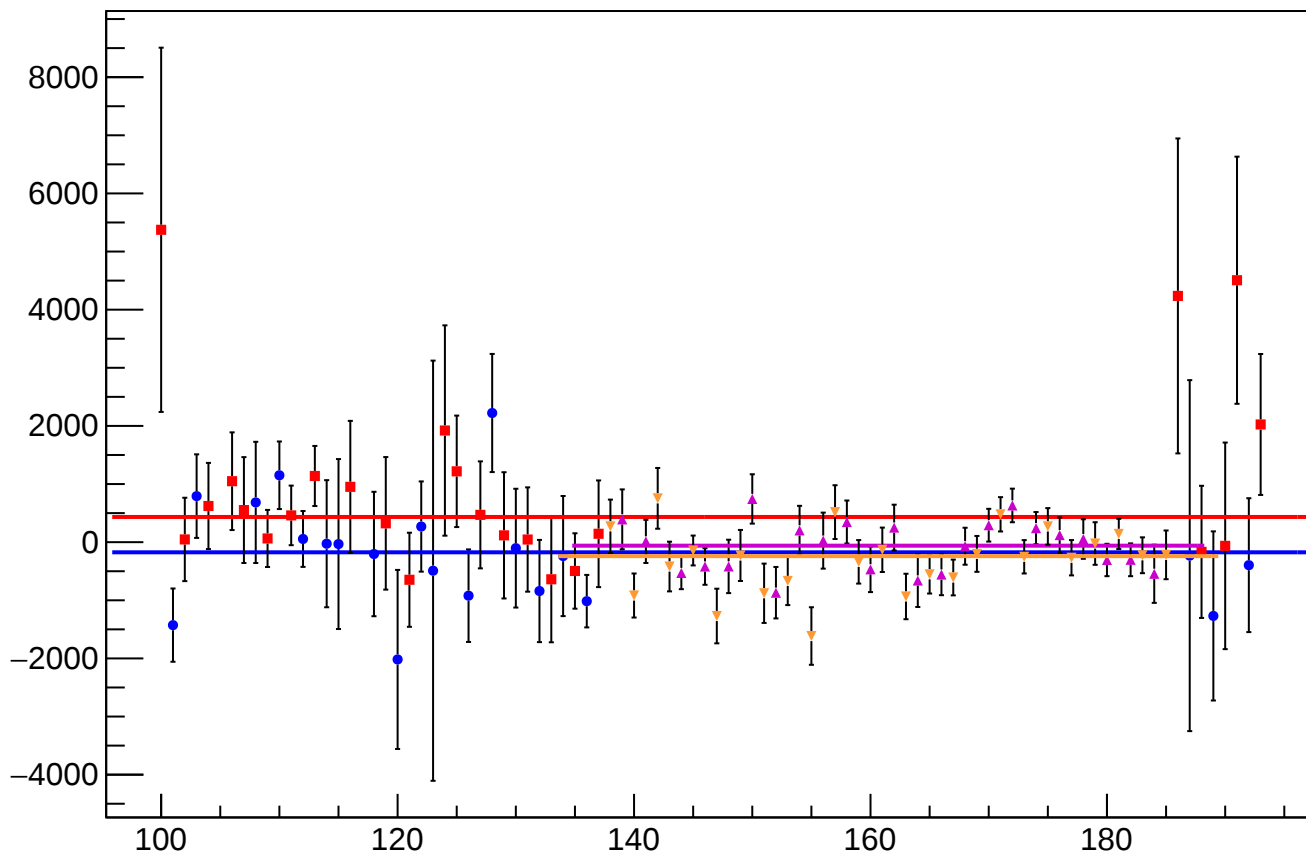
Right: 498.148 $\pm$ 0.089 χ^2 /NDF: 4349467.7/43

In: 321.196 $\pm$ 0.047 χ^2 /NDF: 5089506.0/42

Out: 323.728 $\pm$ 0.046 χ^2 /NDF: 6700834.4/48

All: 322.498 $\pm$ 0.033 χ^2 /NDF: 11791802.0/92

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -174.474 ± 185.778 χ^2/NDF : 24.7/19

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 433.699 ± 175.522 χ^2/NDF : 20.3/23

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

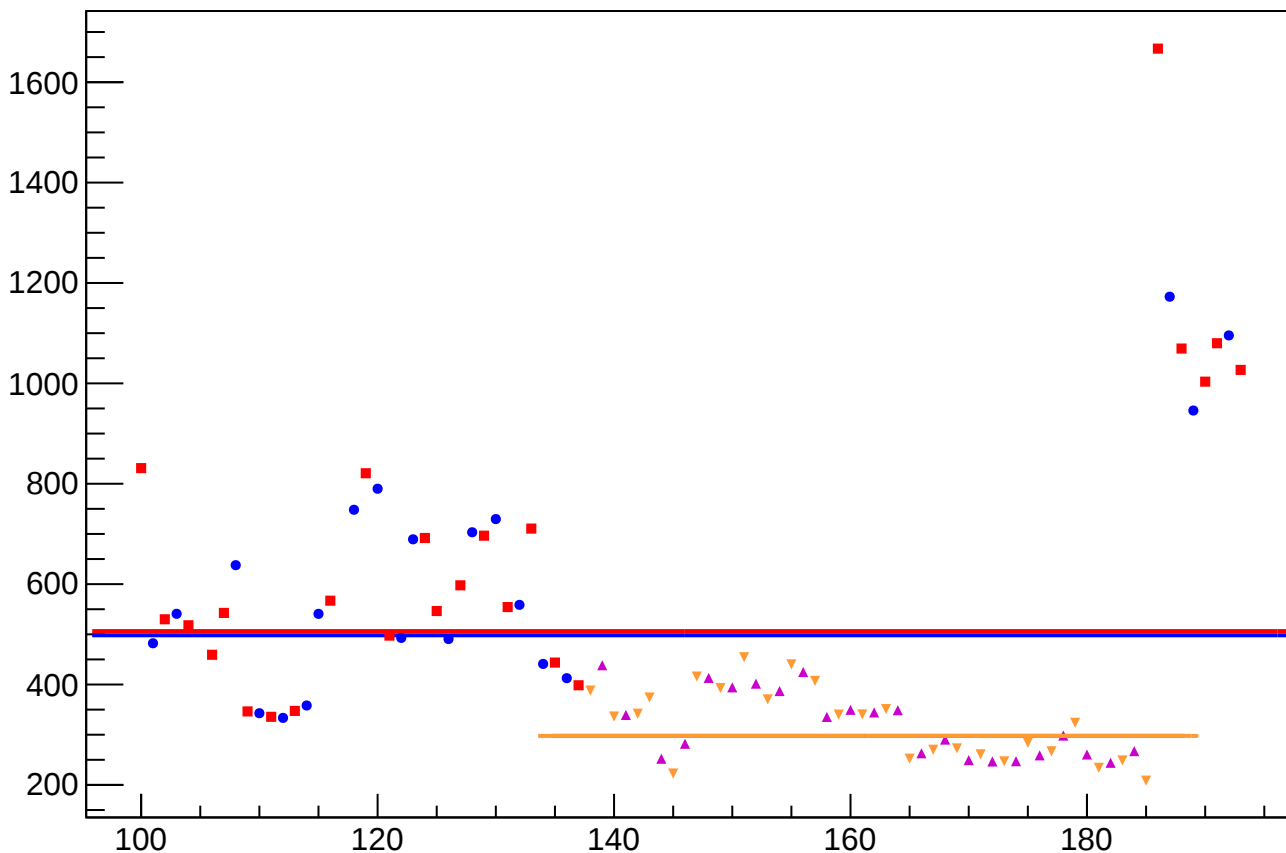
Right: 146.862 ± 127.585 χ^2/NDF : 50.7/43

In: -75.520 ± 67.772 χ^2/NDF : 56.0/42

Out: -145.342 ± 65.899 χ^2/NDF : 75.9/48

All: -111.409 ± 47.246 χ^2/NDF : 132.4/91

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 498.084 $\pm$ 0.131 χ^2 /NDF: 1741902.9/19

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 506.472 $\pm$ 0.124 χ^2 /NDF: 2571356.6/23

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

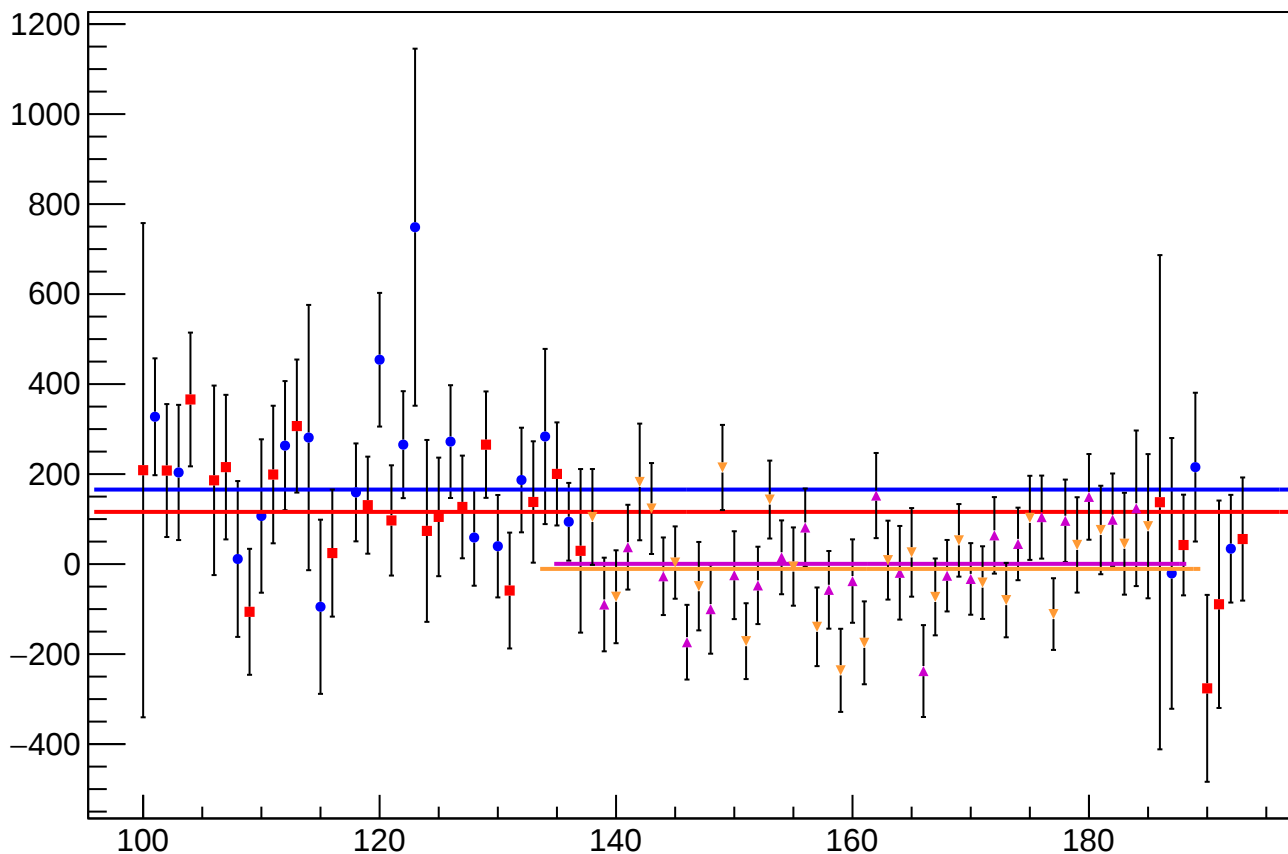
Right: 502.516 $\pm$ 0.090 χ^2 /NDF: 4315413.8/43

In: 324.366 $\pm$ 0.048 χ^2 /NDF:5025425.2/42

Out: 327.053 $\pm$ 0.047 χ^2 /NDF:6641811.1/48

All: 325.747 $\pm$ 0.033 χ^2 /NDF: 11668852.5/92

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 165.622 $\pm$ 30.933 χ^2 /NDF: 17.3/19

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 116.008 $\pm$ 29.761 χ^2 /NDF: 18.0/23

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

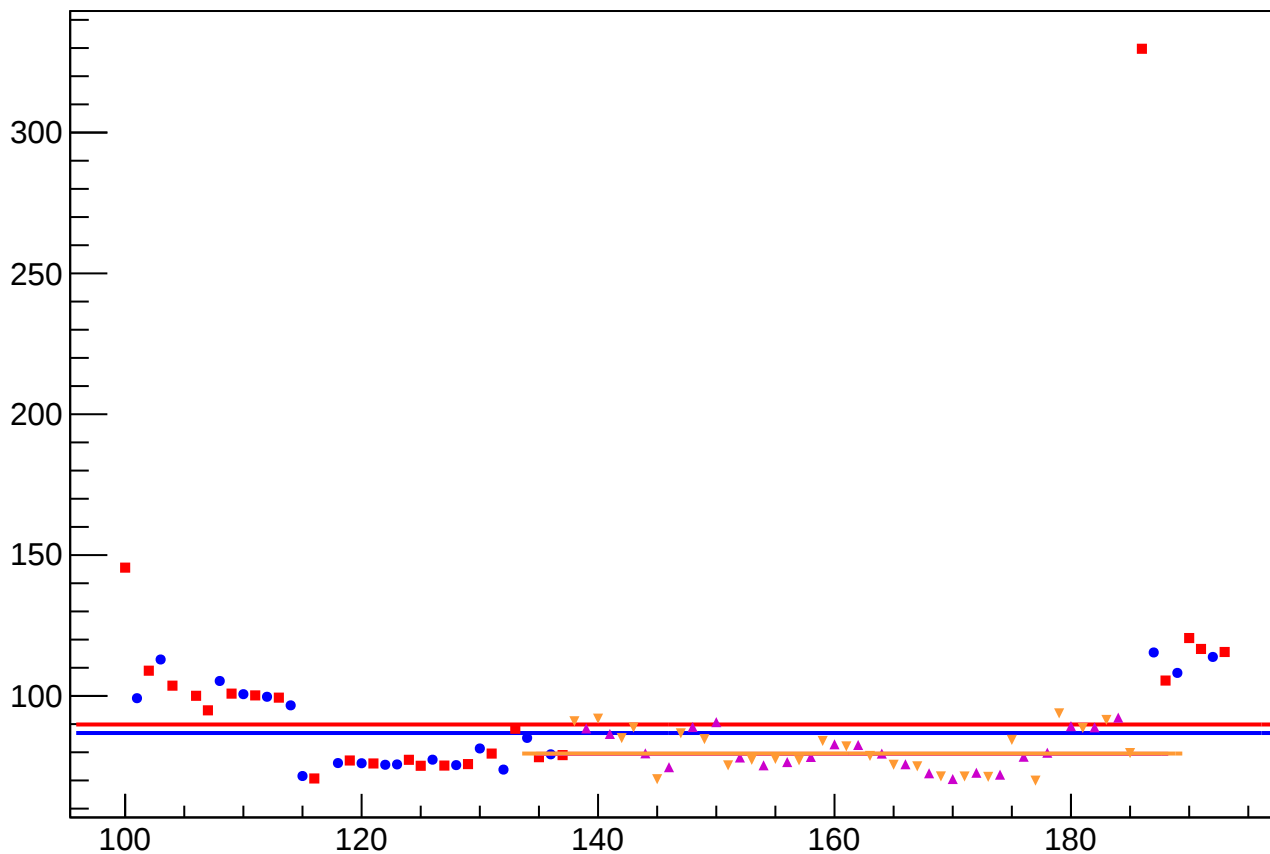
Right: 139.857 $\pm$ 21.446 χ^2 /NDF: 36.6/43

In: 46.103 $\pm$ 16.246 χ^2 /NDF:61.7/42

Out: 24.941 $\pm$ 15.779 χ^2 /NDF:67.3/48

All: 35.213 $\pm$ 11.319 χ^2 /NDF: 129.9/91

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 86.837 $\pm$ 0.022 χ^2 /NDF: 426728.7/19

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 89.864 $\pm$ 0.021 χ^2 /NDF: 894199.2/23

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

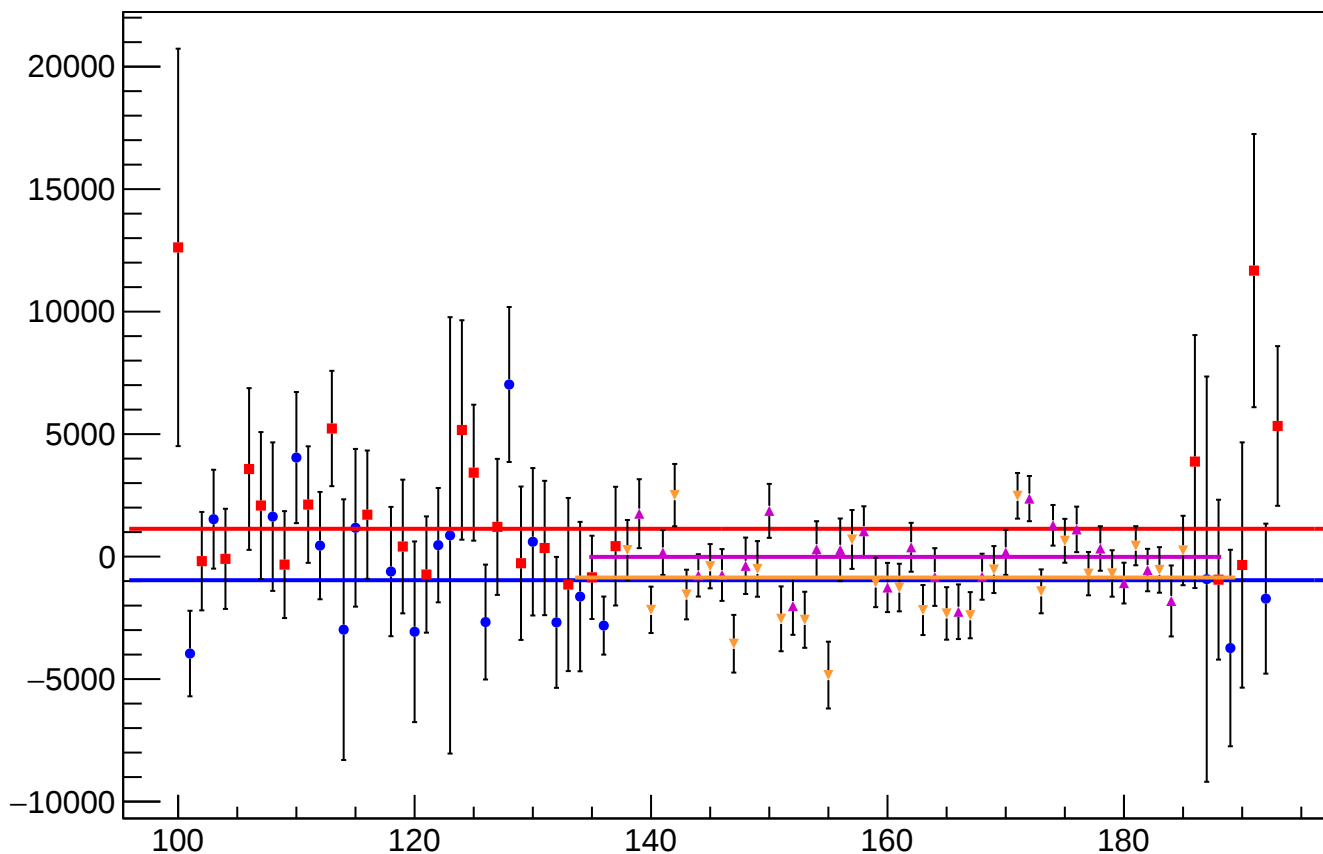
Right: 88.409 $\pm$ 0.015 χ^2 /NDF: 1330870.5/43

In: 81.478 $\pm$ 0.011 χ^2 /NDF: 722079.3/42

Out: 82.450 $\pm$ 0.011 χ^2 /NDF: 1375927.8/48

All: 81.978 $\pm$ 0.008 χ^2 /NDF: 2101690.8/91

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -963.760 $\pm$ 567.001 χ^2 /NDF: 21.1/19

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1135.279 $\pm$ 561.783 χ^2 /NDF: 17.5/23

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

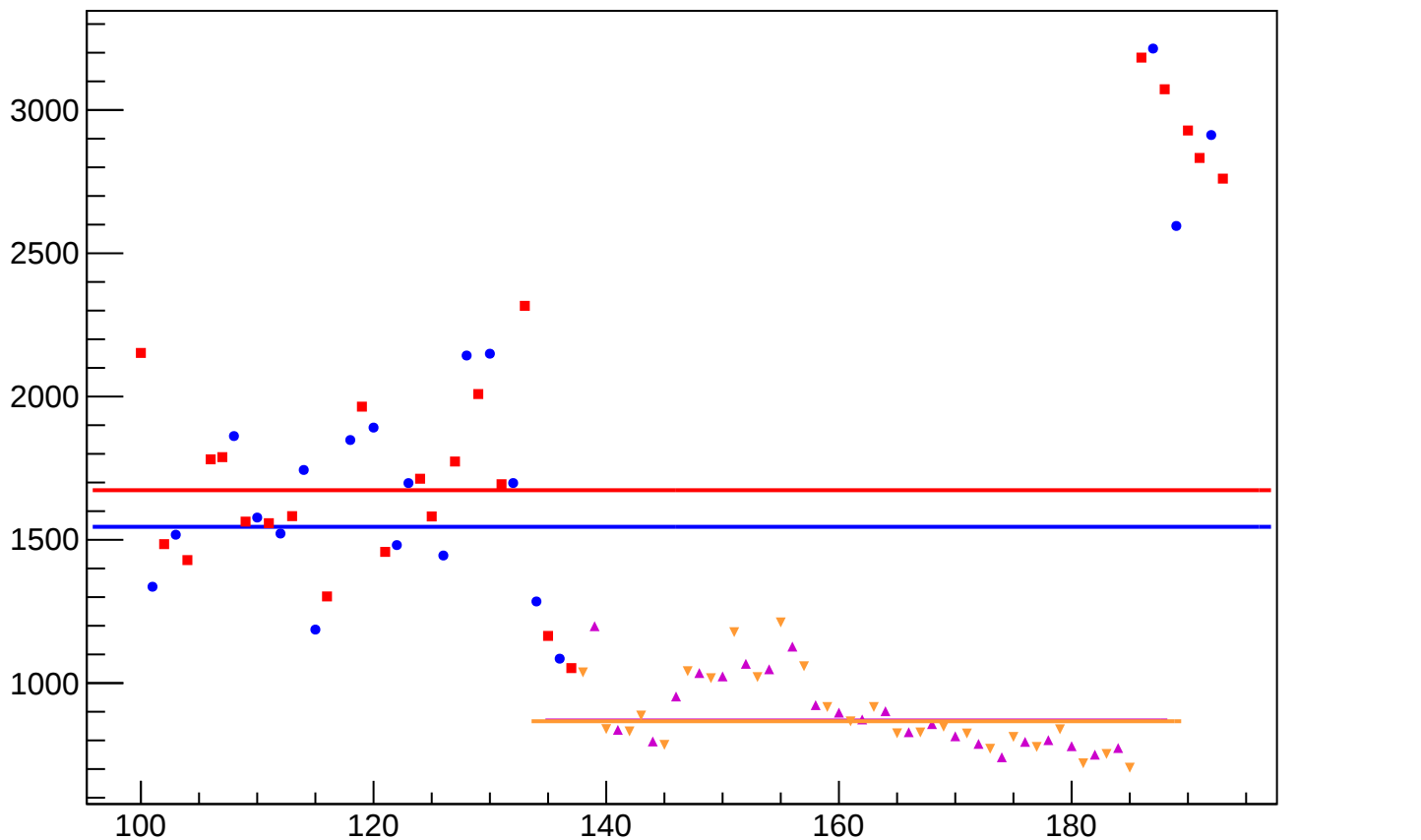
Right: 95.463 $\pm$ 399.073 χ^2 /NDF: 45.5/43

In: -126.603 $\pm$ 196.988 χ^2 /NDF:54.8/42

Out: -622.181 $\pm$ 191.824 χ^2 /NDF:84.5/48

All: -380.972 $\pm$ 137.429 χ^2 /NDF: 142.5/91

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1545.406 $\pm$ 0.401 χ^2 /NDF: 1220770.5/19

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1673.105 $\pm$ 0.397 χ^2 /NDF: 1528281.7/23

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

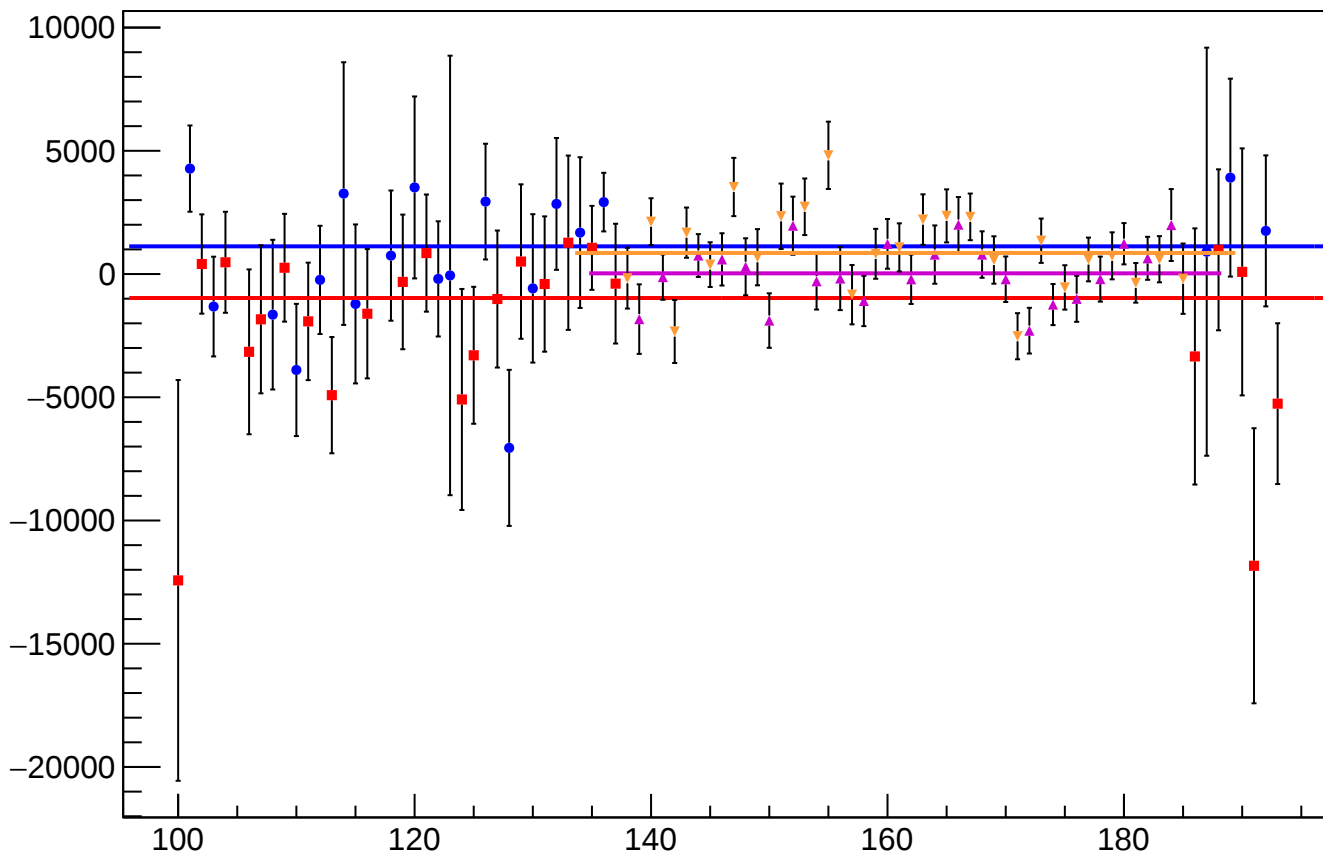
Right: 1609.845 $\pm$ 0.282 χ^2 /NDF: 2800244.3/43

In: 951.143 $\pm$ 0.139 χ^2 /NDF: 4301590.4/42

Out: 960.891 $\pm$ 0.136 χ^2 /NDF: 5828738.1/48

All: 956.146 $\pm$ 0.097 χ^2 /NDF: 10132842.4/92

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1123.665 $\pm$ 568.135 χ^2 /NDF: 21.7/19

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF: 54.1/24

Right Out: -972.798 $\pm$ 563.003 χ^2 /NDF: 17.3/23

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

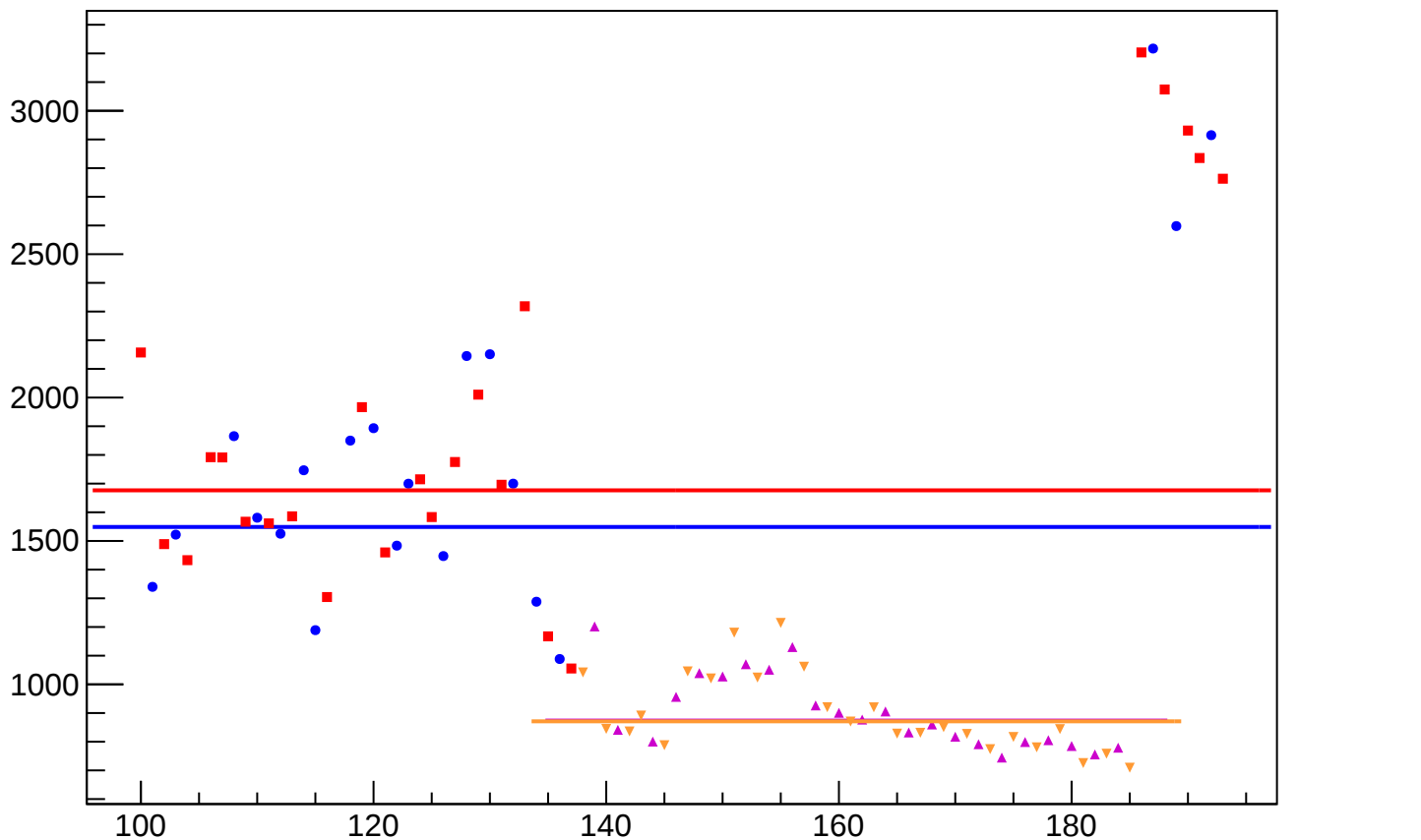
Right: 65.922 $\pm$ 399.906 χ^2 /NDF: 45.8/43

In: 161.331 $\pm$ 197.827 χ^2 /NDF: 54.7/42

Out: 641.534 $\pm$ 192.667 χ^2 /NDF: 80.6/48

All: 407.777 $\pm$ 138.024 χ^2 /NDF: 138.4/91

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1548.815 $\pm$ 0.402 χ^2 /NDF: 1215311.6/19

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1676.517 $\pm$ 0.398 χ^2 /NDF: 1525310.9/23

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

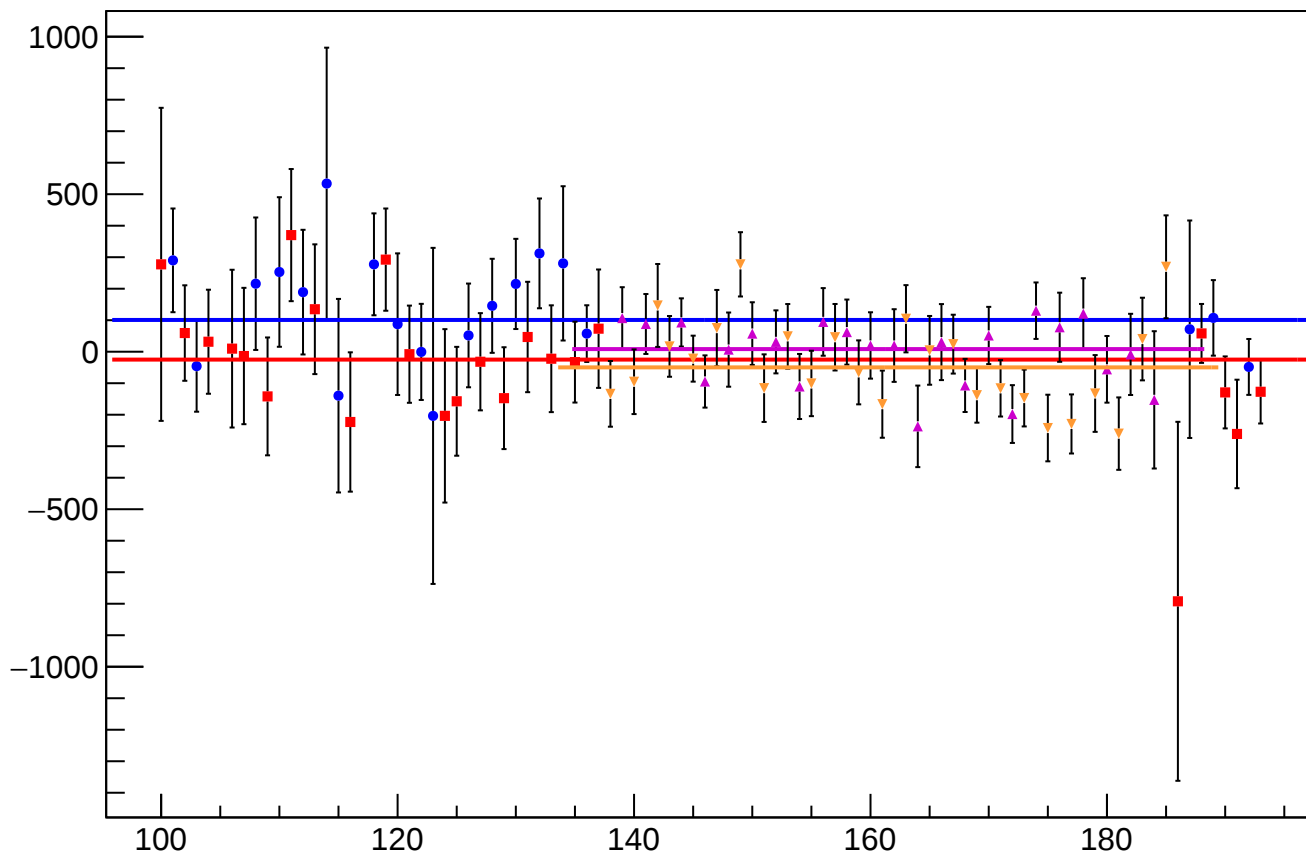
Right: 1613.246 $\pm$ 0.283 χ^2 /NDF: 2791604.1/43

In: 955.533 $\pm$ 0.140 χ^2 /NDF: 4271018.9/42

Out: 965.430 $\pm$ 0.136 χ^2 /NDF: 5790719.8/48

All: 960.612 $\pm$ 0.098 χ^2 /NDF: 10064307.4/92

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 100.817 $\pm$ 35.806 χ^2 /NDF: 12.7/19

Left Out: -49.717 $\pm$ 20.580 χ^2 /NDF:39.4/24

Right Out: -25.028 $\pm$ 33.209 χ^2 /NDF: 18.4/23

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

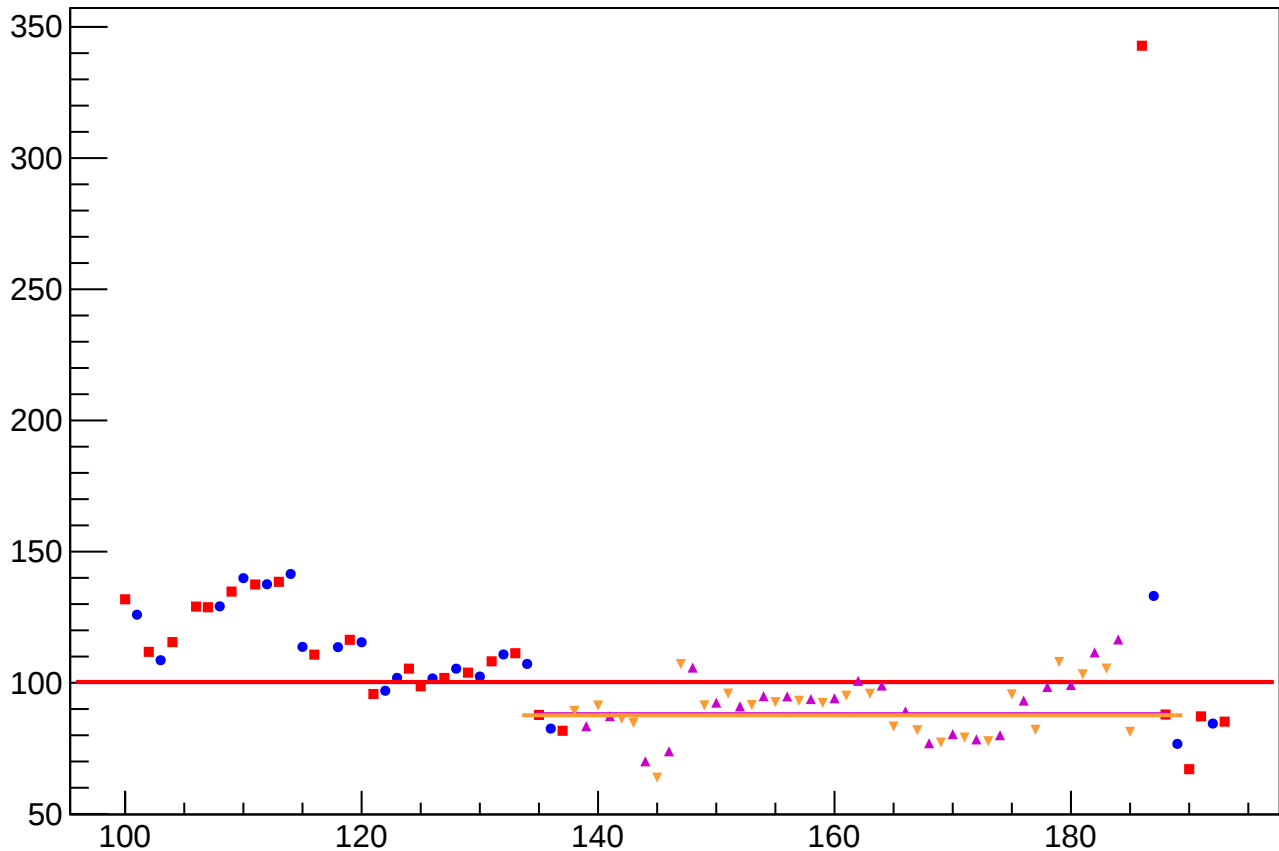
Right: 33.166 $\pm$ 24.349 χ^2 /NDF: 37.8/43

In: 32.465 $\pm$ 18.288 χ^2 /NDF:39.7/42

Out: -42.866 $\pm$ 17.493 χ^2 /NDF:58.2/48

All: -6.872 $\pm$ 12.641 χ^2 /NDF: 106.7/91

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 100.240 $\pm$ 0.025 χ^2 /NDF: 513908.0/19

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 100.337 $\pm$ 0.023 χ^2 /NDF: 999268.9/23

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

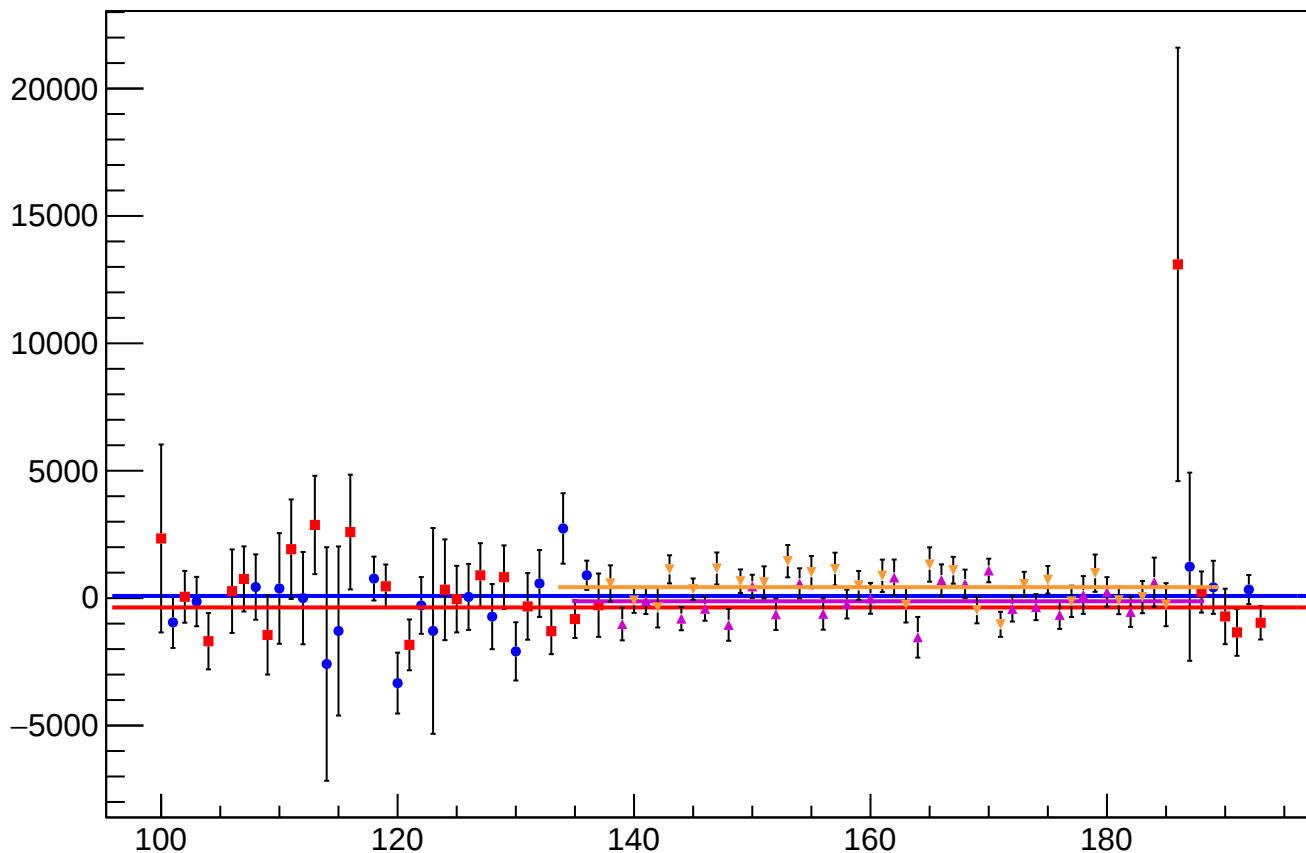
Right: 100.292 $\pm$ 0.017 χ^2 /NDF: 1513184.8/43

In: 91.217 $\pm$ 0.013 χ^2 /NDF: 1209450.3/42

Out: 91.152 $\pm$ 0.012 χ^2 /NDF: 1765664.8/48

All: 91.183 $\pm$ 0.009 χ^2 /NDF: 2975127.9/91

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 85.307 ± 246.854 $\chi^2/\text{NDF}: 21.0/19$

Left Out: 431.658 ± 115.706 $\chi^2/\text{NDF}: 30.5/24$

Right Out: -364.595 ± 231.614 $\chi^2/\text{NDF}: 21.2/23$

Left In: -123.017 ± 118.849 $\chi^2/\text{NDF}: 29.3/22$

Left: 161.753 ± 82.905 $\chi^2/\text{NDF}: 70.9/47$

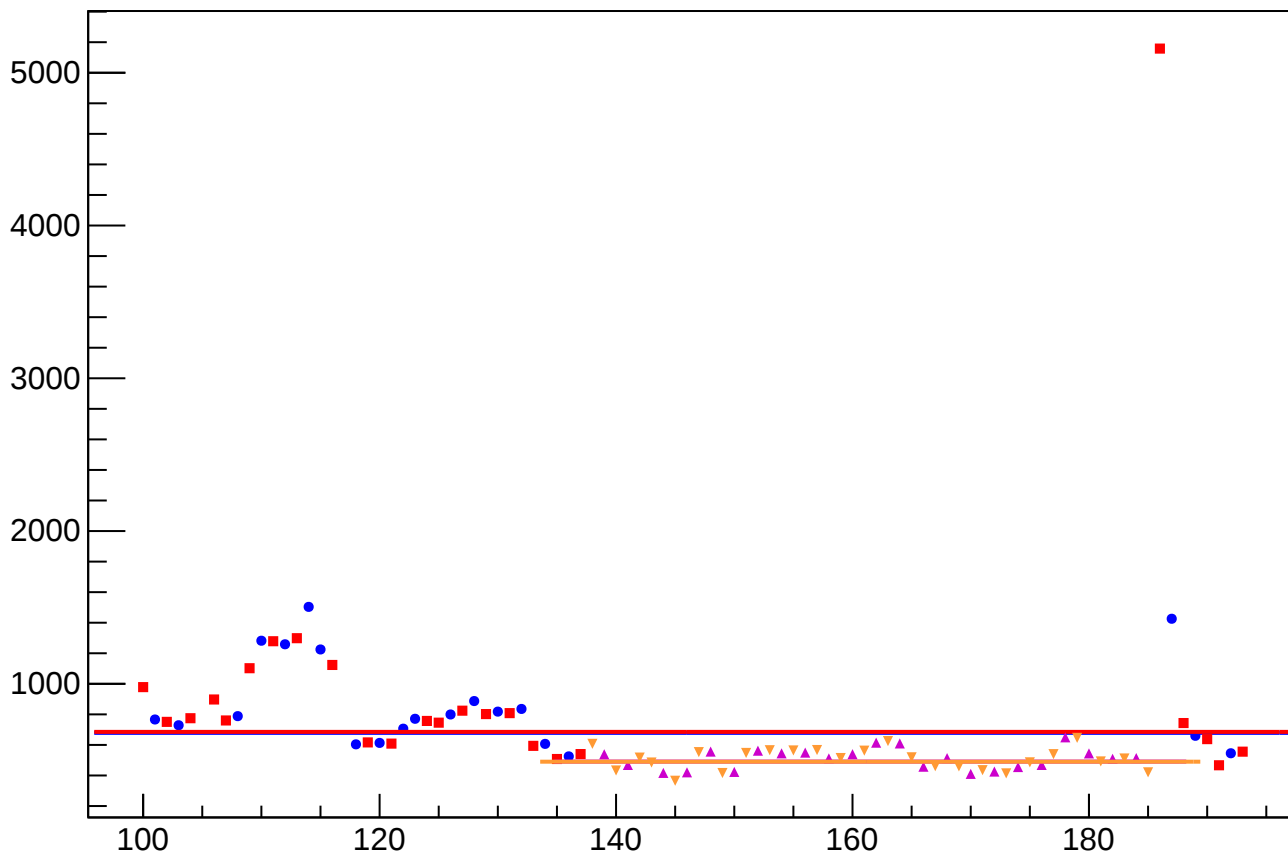
Right: -153.959 ± 168.907 $\chi^2/\text{NDF}: 44.0/43$

In: -83.814 ± 107.084 $\chi^2/\text{NDF}: 50.9/42$

Out: 272.631 ± 103.508 $\chi^2/\text{NDF}: 61.2/48$

All: 100.459 ± 74.424 $\chi^2/\text{NDF}: 117.7/91$

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 679.015 $\pm$ 0.175 χ^2 /NDF: 1006393.9/19

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 685.421 $\pm$ 0.164 χ^2 /NDF: 1691702.1/23

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

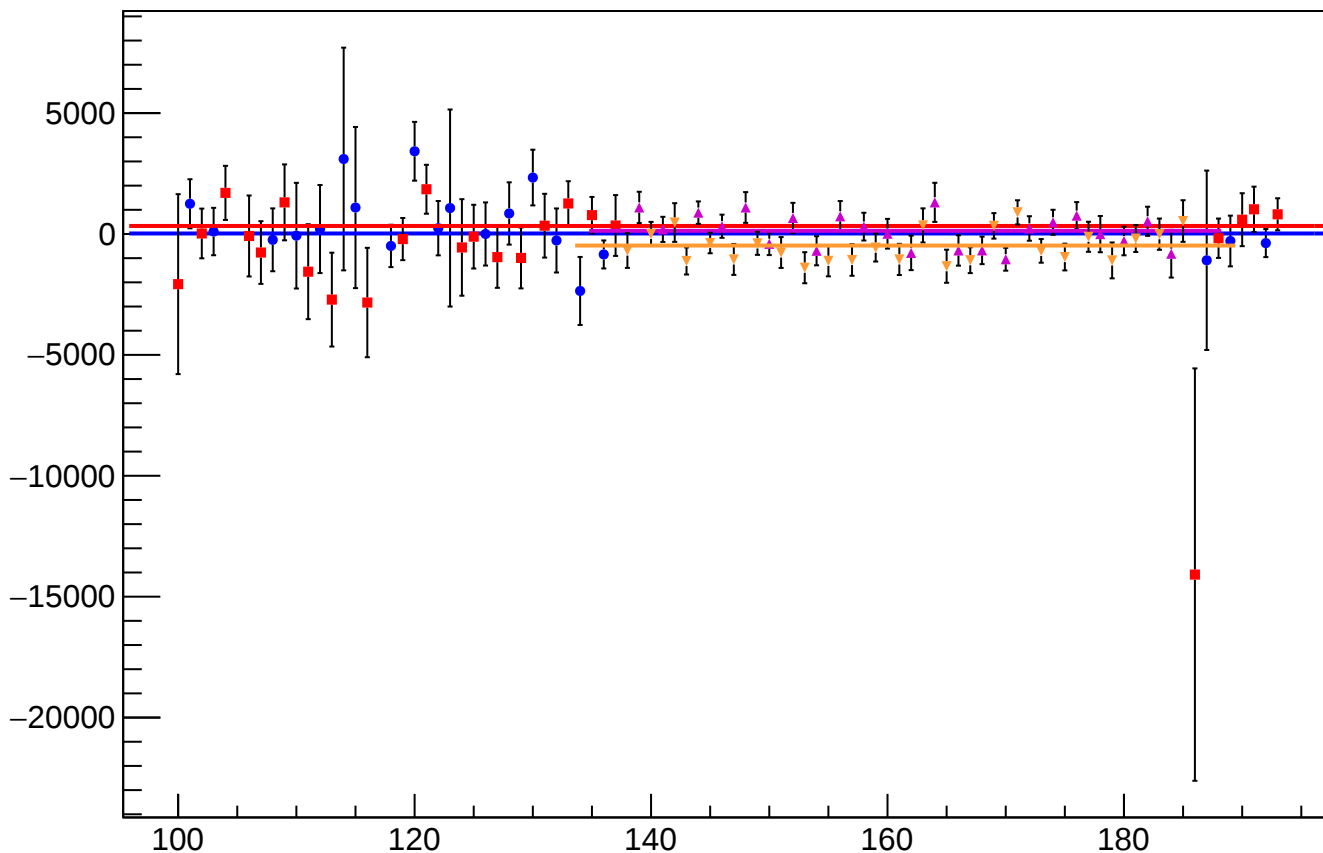
Right: 682.422 $\pm$ 0.119 χ^2 /NDF: 2698812.3/43

In: 526.307 $\pm$ 0.076 χ^2 /NDF: 2538416.8/42

Out: 529.243 $\pm$ 0.073 χ^2 /NDF: 3578294.0/48

All: 527.825 $\pm$ 0.053 χ^2 /NDF: 6117487.9/91

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 21.338 ± 249.792 $\chi^2/\text{NDF}: 20.6/19$

Left Out: -478.197 ± 117.659 $\chi^2/\text{NDF}: 27.8/24$

Right Out: 332.137 ± 234.487 $\chi^2/\text{NDF}: 19.4/23$

Left In: 132.543 ± 120.866 $\chi^2/\text{NDF}: 29.5/22$

Left: -181.037 ± 84.308 $\chi^2/\text{NDF}: 70.5/47$

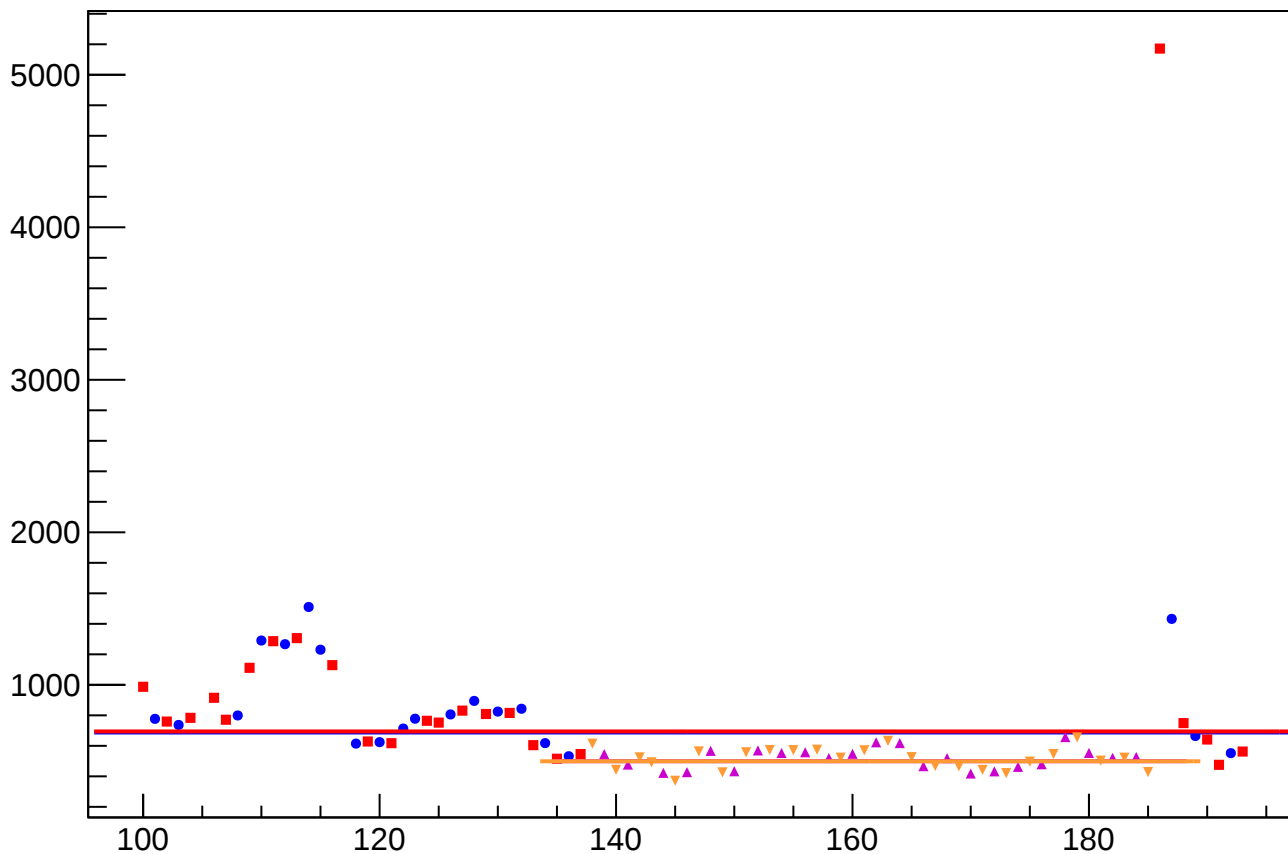
Right: 186.550 ± 170.962 $\chi^2/\text{NDF}: 40.8/43$

In: 111.446 ± 108.799 $\chi^2/\text{NDF}: 50.3/42$

Out: -315.211 ± 105.163 $\chi^2/\text{NDF}: 56.7/48$

All: -109.131 ± 75.614 $\chi^2/\text{NDF}: 114.9/91$

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 687.511+/-0.177 χ^2/NDF : 991331.2/19

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 694.411+/-0.166 χ^2/NDF : 1669099.4/23

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

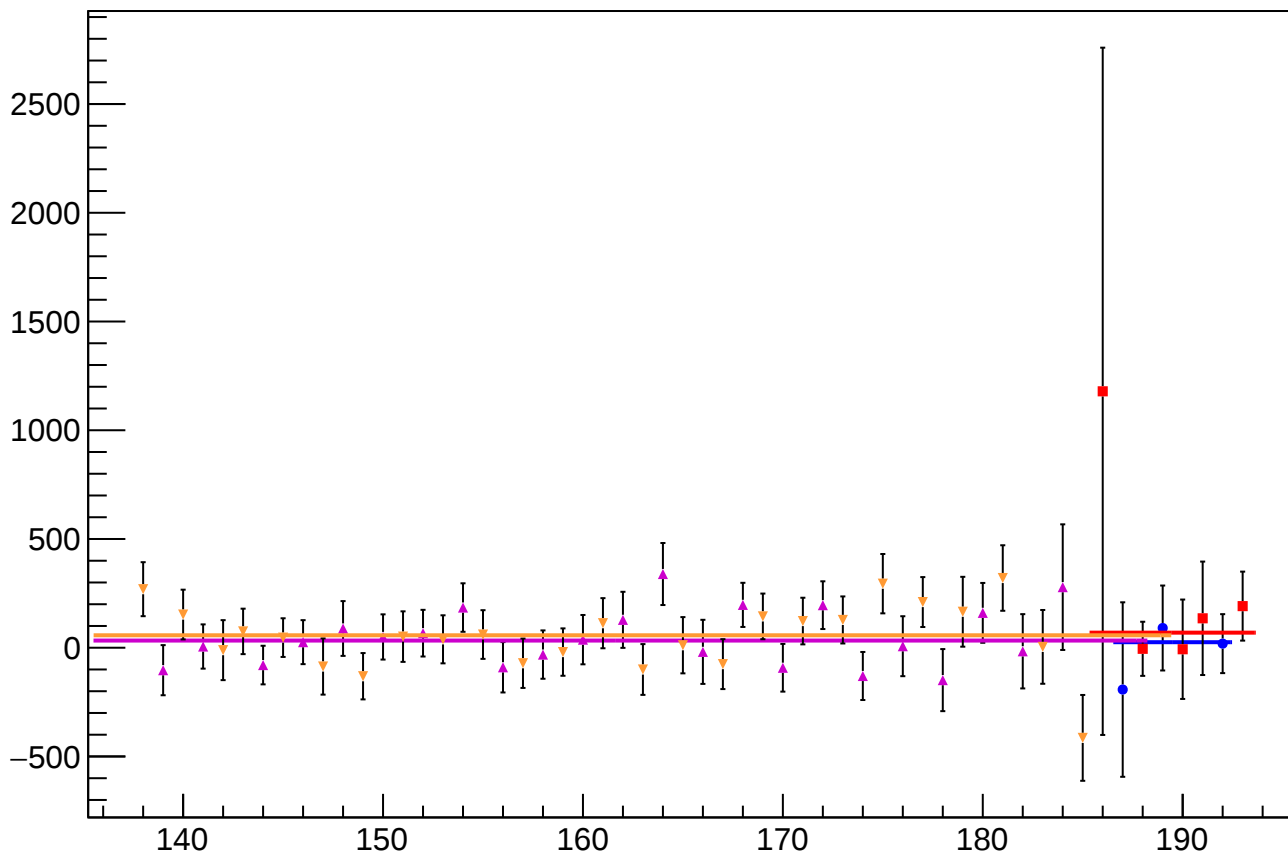
Right: 691.179+/-0.121 χ^2/NDF : 2661242.0/43

In: 535.081+/-0.077 χ^2/NDF : 2486991.0/42

Out: 538.107+/-0.074 χ^2/NDF : 3515786.4/48

All: 536.646+/-0.053 χ^2/NDF : 6003577.5/91

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 25.391 $\pm$ 107.308 χ^2 /NDF: 0.4/2

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: 69.332 $\pm$ 84.948 χ^2 /NDF: 1.6/4

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

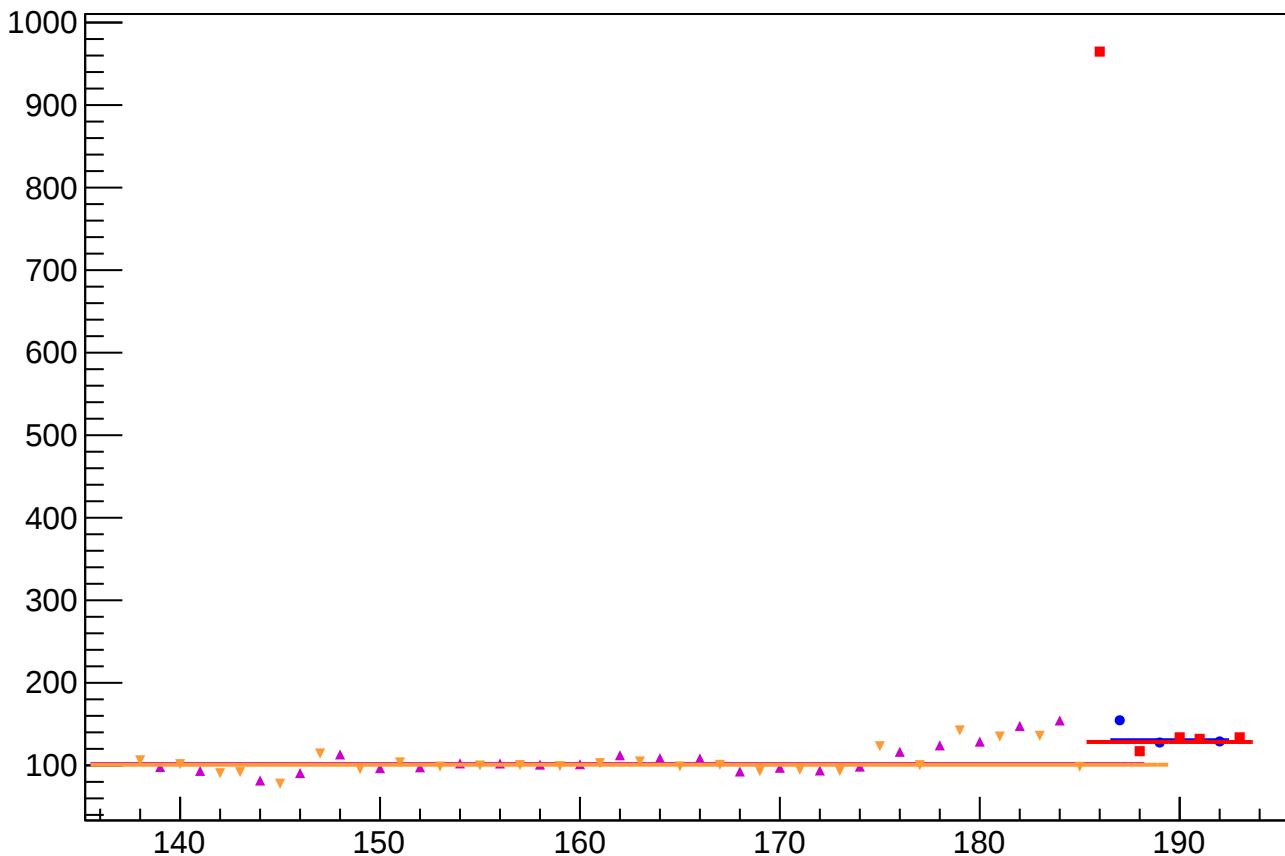
Right: 52.404 $\pm$ 66.605 χ^2 /NDF: 2.1/7

In: 32.571 $\pm$ 23.966 χ^2 /NDF:24.0/25

Out: 58.087 $\pm$ 22.840 χ^2 /NDF:30.8/29

All: 45.942 $\pm$ 16.534 χ^2 /NDF: 55.4/55

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 130.429 $\pm$ 0.076 χ^2 /NDF: 7894.8/2

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 128.352 $\pm$ 0.060 χ^2 /NDF: 580624.7/4

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

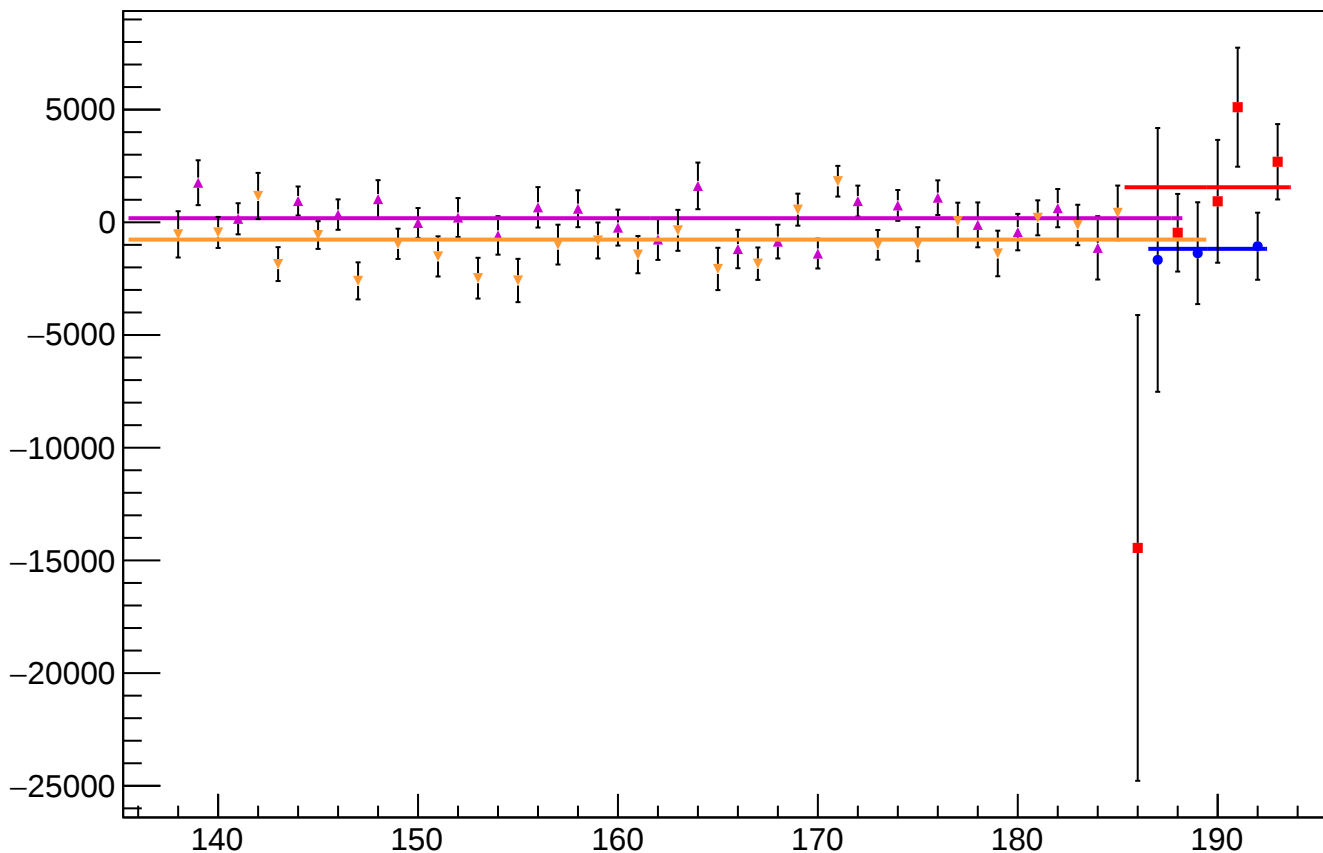
Right: 129.152 $\pm$ 0.047 χ^2 /NDF: 588980.0/7

In: 103.059 $\pm$ 0.017 χ^2 /NDF: 727170.2/25

Out: 102.792 $\pm$ 0.016 χ^2 /NDF: 1376302.5/29

All: 102.919 $\pm$ 0.012 χ^2 /NDF: 2103602.1/55

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1176.581 ± 1215.260 $\chi^2/\text{NDF}: 0.0/2$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1555.424 ± 1008.913 $\chi^2/\text{NDF}: 6.1/4$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

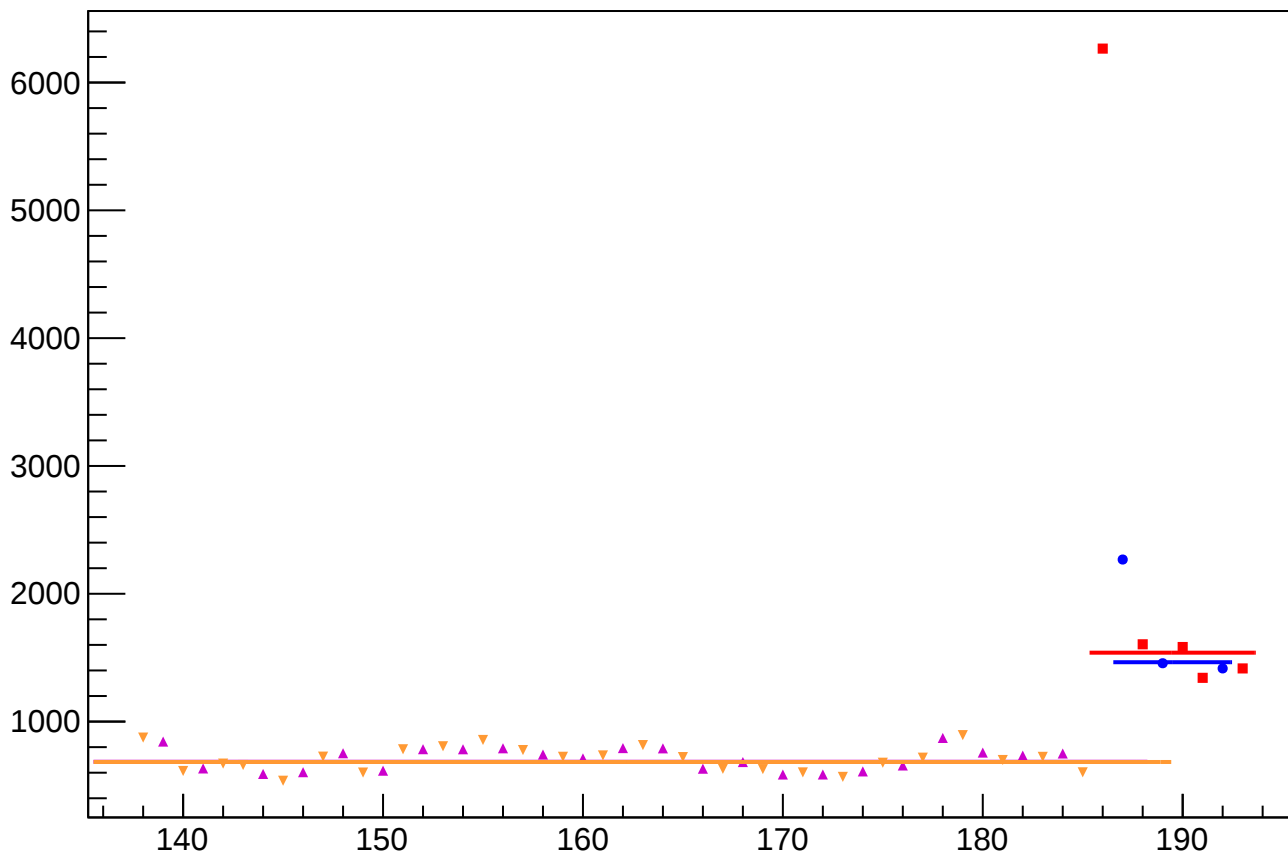
Right: 440.720 ± 776.262 $\chi^2/\text{NDF}: 9.1/7$

In: 156.803 ± 164.152 $\chi^2/\text{NDF}: 26.2/25$

Out: -708.655 ± 159.052 $\chi^2/\text{NDF}: 57.8/29$

All: -289.580 ± 114.227 $\chi^2/\text{NDF}: 98.4/55$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1464.428 $\pm$ 0.859 χ^2 /NDF: 39849.1/2

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1539.114 $\pm$ 0.713 χ^2 /NDF: 443953.6/4

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

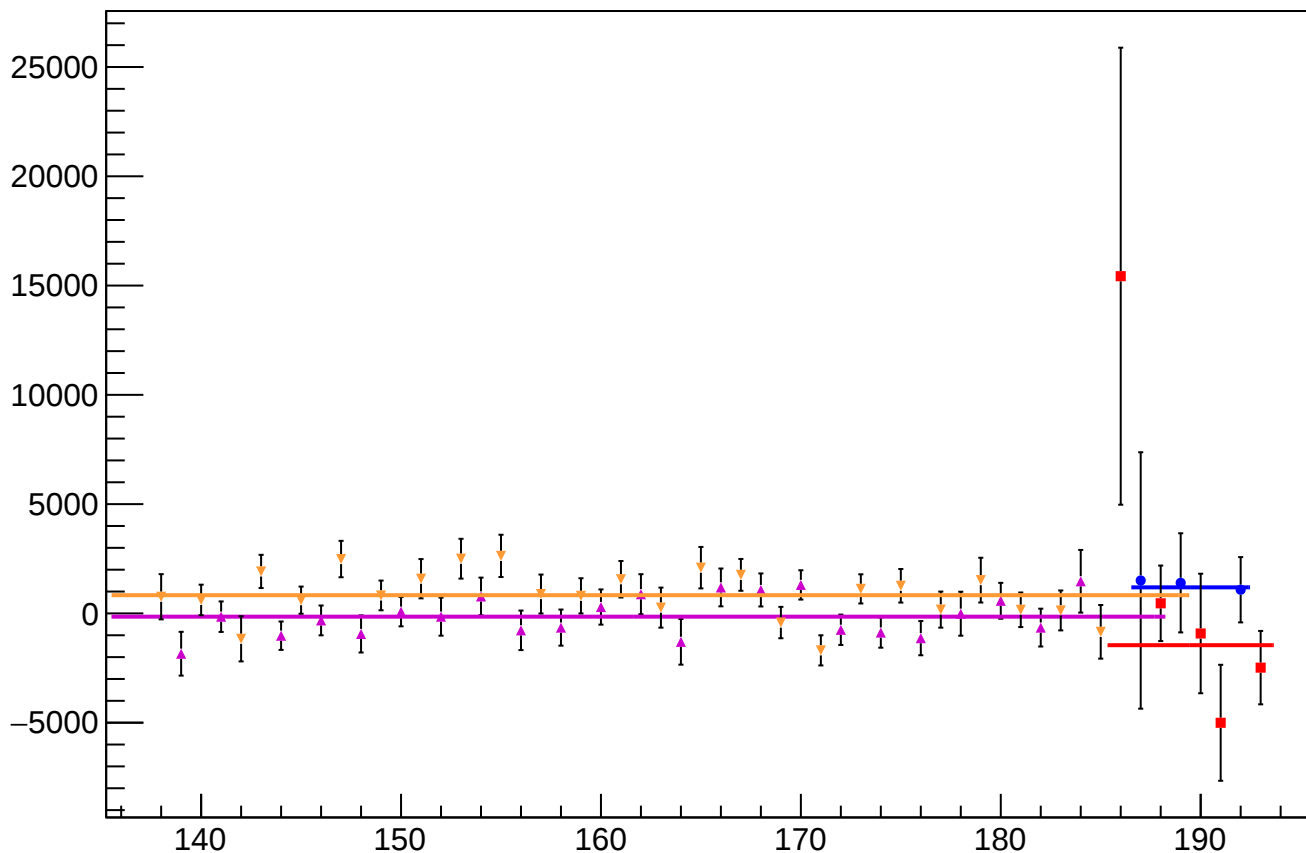
Right: 1508.641 $\pm$ 0.549 χ^2 /NDF: 488274.4/7

In: 699.803 $\pm$ 0.116 χ^2 /NDF: 1375668.3/25

Out: 705.139 $\pm$ 0.112 χ^2 /NDF: 2512500.5/29

All: 702.555 $\pm$ 0.081 χ^2 /NDF: 3889258.8/55

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1192.245 $\pm$ 1220.197 χ^2/NDF : 0.0/2

Left Out: 833.395 $\pm$ 162.965 χ^2/NDF : 43.2/24

Right Out: -1454.358 $\pm$ 1013.025 χ^2/NDF : 6.0/4

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

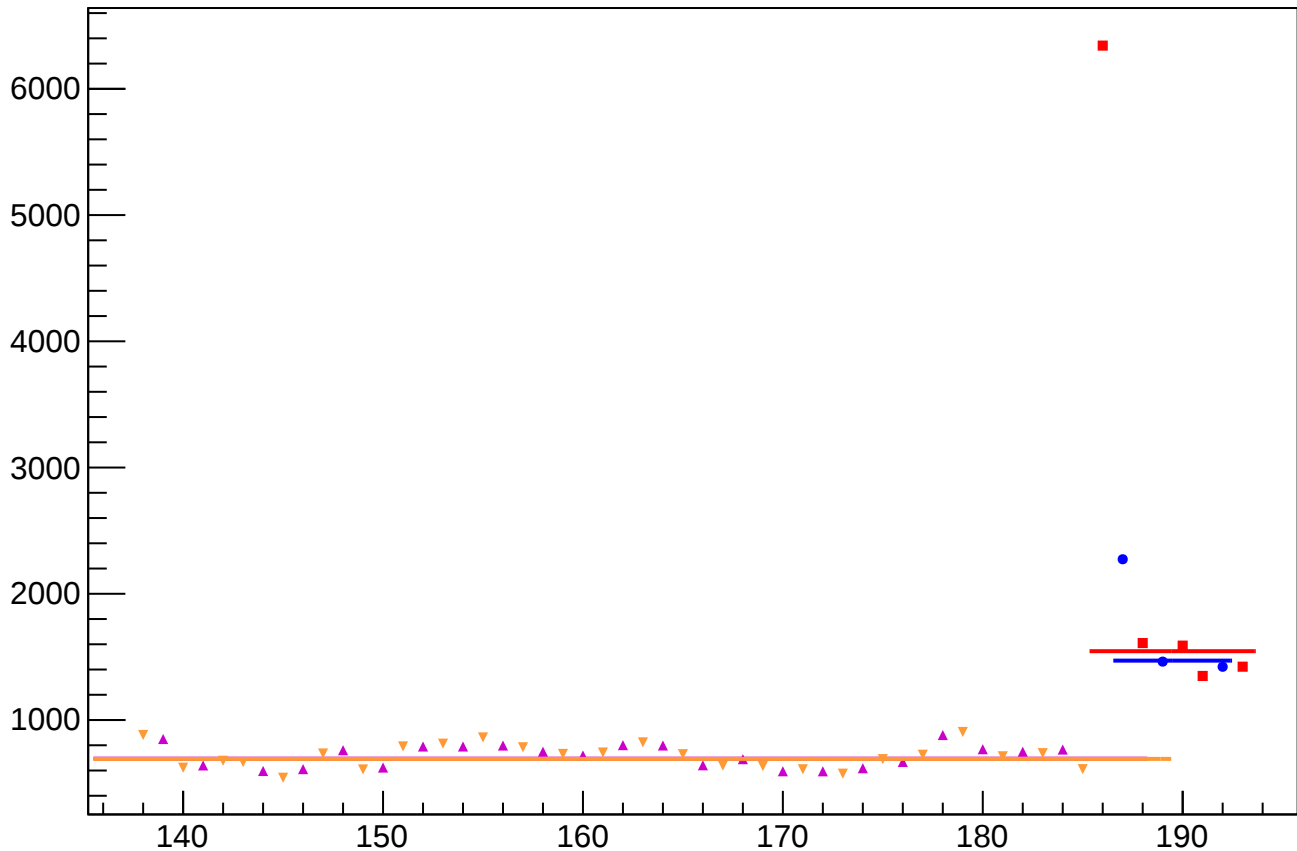
Right: -374.483 $\pm$ 779.422 χ^2/NDF : 8.8/7

In: -123.969 $\pm$ 166.084 χ^2/NDF : 27.2/25

Out: 775.683 $\pm$ 160.896 χ^2/NDF : 54.2/29

All: 340.127 $\pm$ 115.561 χ^2/NDF : 96.6/55

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1470.499+/-0.863 χ^2/NDF : 39616.9/2

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1545.252+/-0.716 χ^2/NDF : 445932.8/4

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

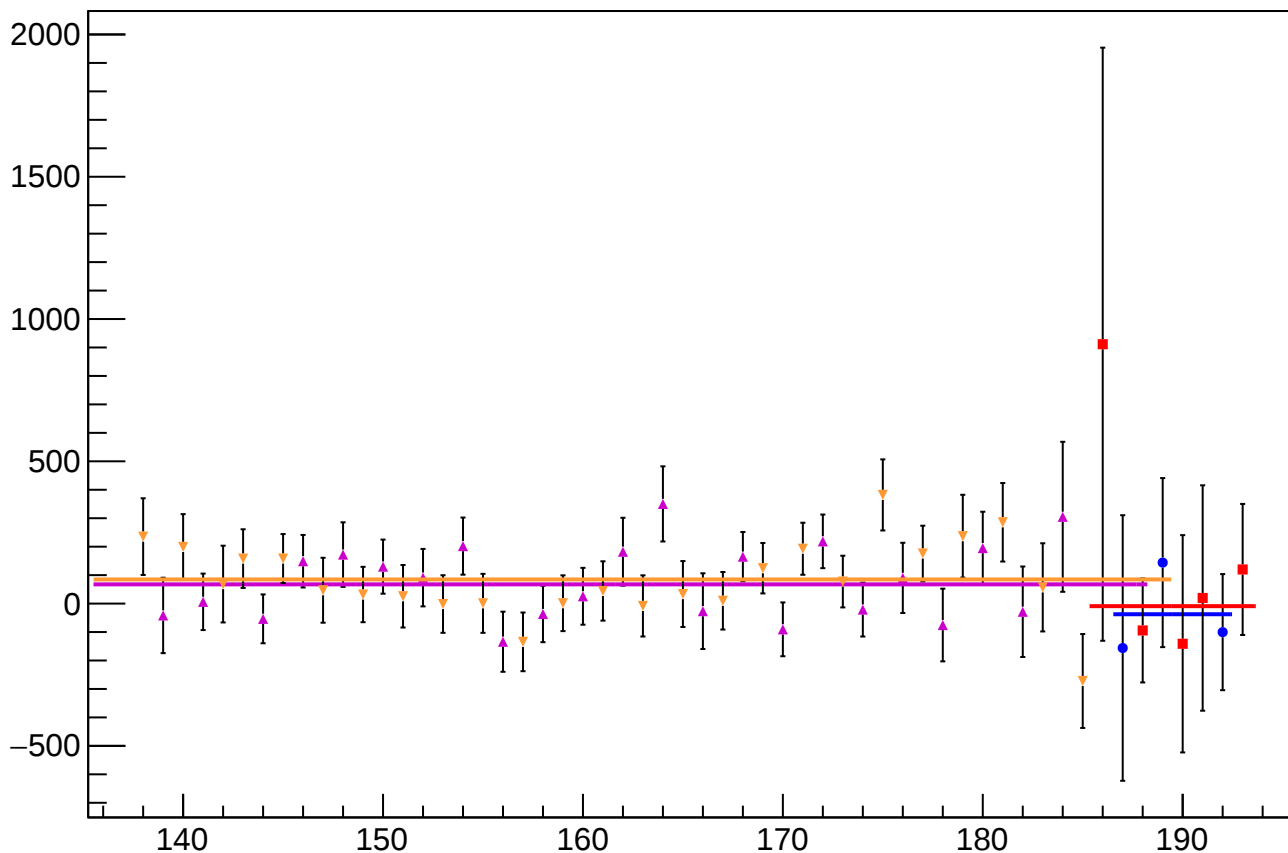
Right: 1514.751+/-0.551 χ^2/NDF : 489993.3/7

In: 708.255+/-0.117 χ^2/NDF : 1356874.9/25

Out: 713.619+/-0.114 χ^2/NDF : 2485962.1/29

All: 711.022+/-0.082 χ^2/NDF : 3843912.8/55

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -37.442 ± 158.200 χ^2/NDF : 0.5/2

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -9.032 ± 126.038 χ^2/NDF : 1.4/4

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

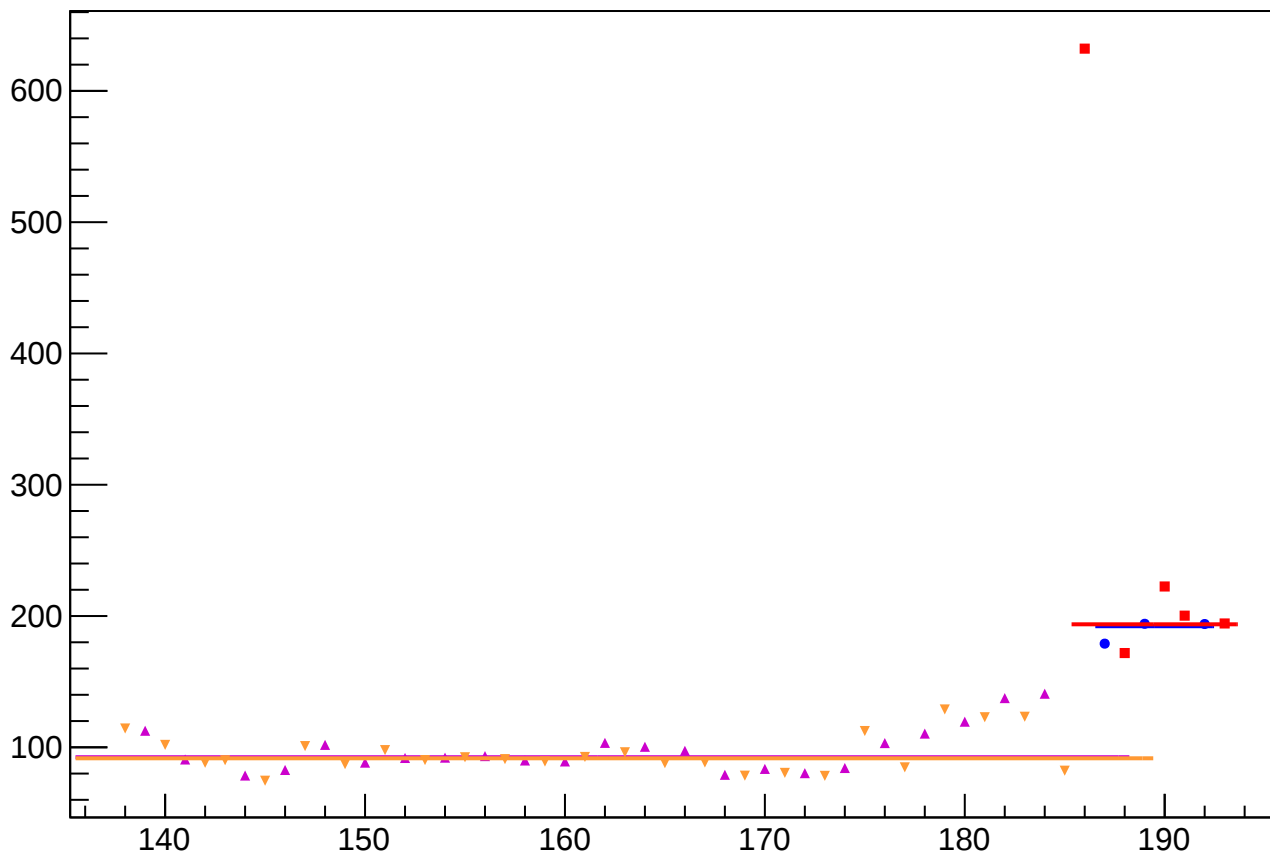
Right: -20.063 ± 98.578 χ^2/NDF : 2.0/7

In: 65.480 ± 22.227 χ^2/NDF : 29.8/25

Out: 82.170 ± 21.331 χ^2/NDF : 30.5/29

All: 74.168 ± 15.390 χ^2/NDF : 60.6/55

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 192.247 ± 0.112 χ^2/NDF : 1831.8/2

Left Out: 91.633 ± 0.015 χ^2/NDF : 693122.0/24

Right Out: 193.695 ± 0.089 χ^2/NDF : 394776.3/4

Left In: 92.466 ± 0.016 χ^2/NDF : 655700.4/22

Left: 92.034 ± 0.011 χ^2/NDF : 1350250.3/47

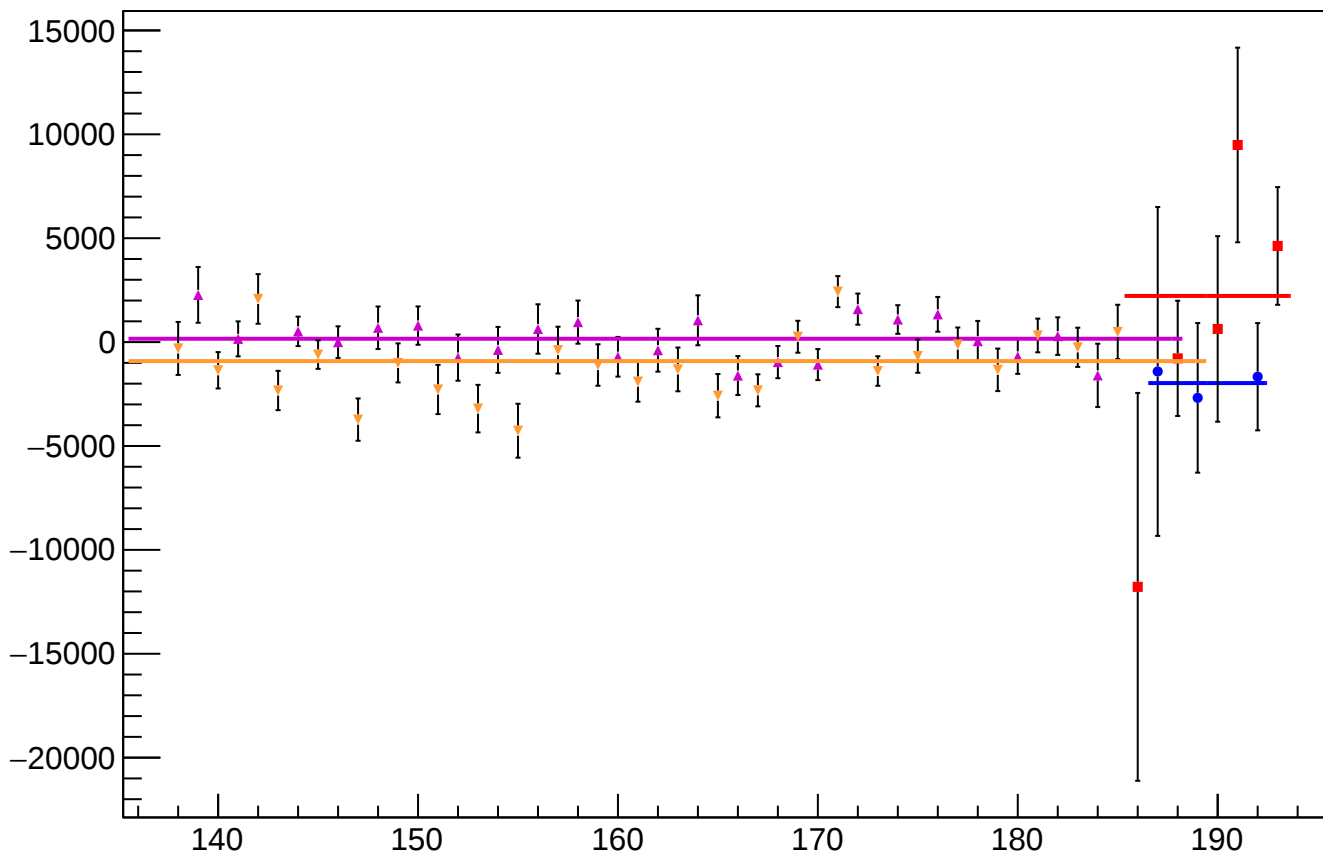
Right: 193.133 ± 0.070 χ^2/NDF : 396710.6/7

In: 94.436 ± 0.016 χ^2/NDF : 1437460.8/25

Out: 94.556 ± 0.015 χ^2/NDF : 2361802.9/29

All: 94.498 ± 0.011 χ^2/NDF : 3799294.3/55

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1972.372 $\pm$ 2027.939 χ^2 /NDF: 0.1/2

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 2222.121 $\pm$ 1662.495 χ^2 /NDF: 6.7/4

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF:25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

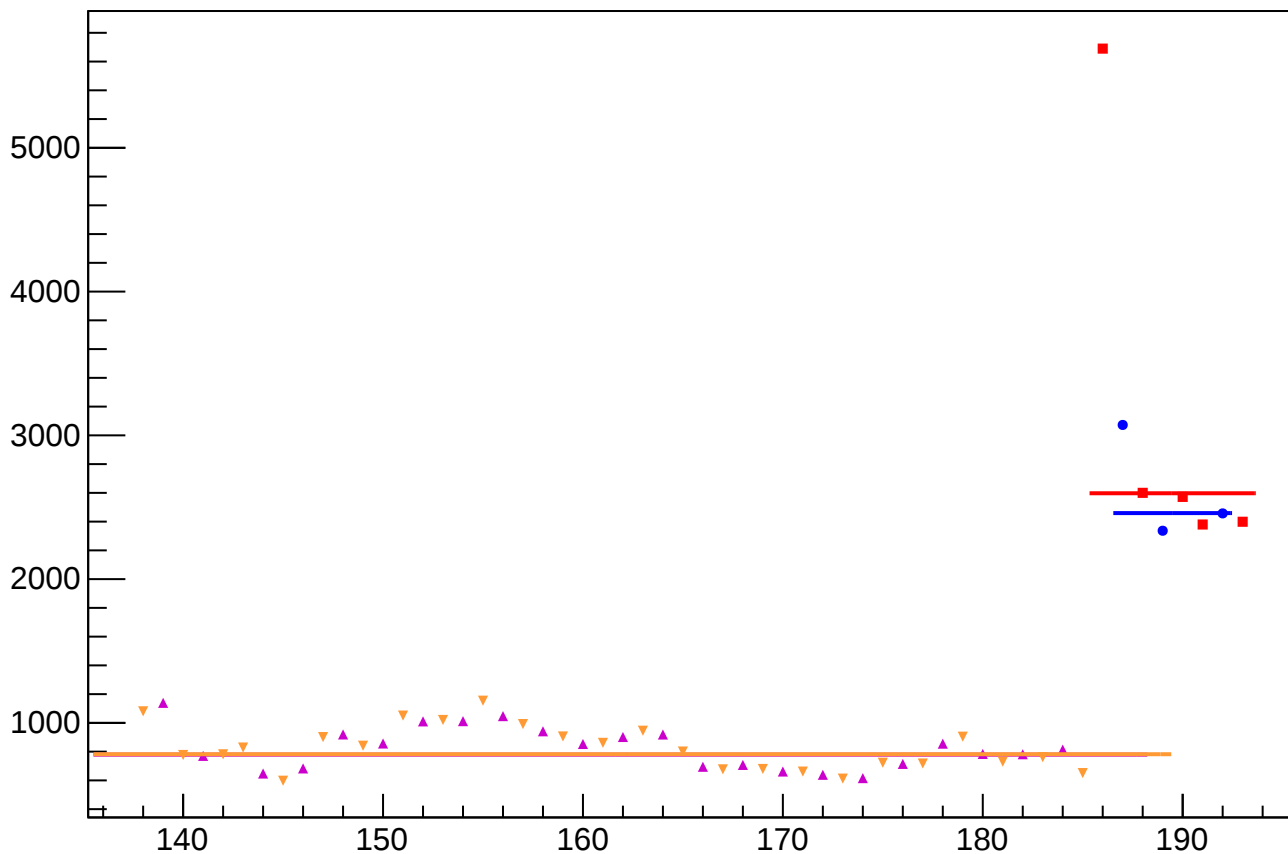
Right: 536.199 $\pm$ 1285.683 χ^2 /NDF: 9.3/7

In: 142.610 $\pm$ 188.669 χ^2 /NDF:26.2/25

Out: -876.211 $\pm$ 184.200 χ^2 /NDF:74.4/29

All: -379.010 $\pm$ 131.800 χ^2 /NDF: 115.5/55

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2459.306 $\pm$ 1.434 χ^2/NDF : 14332.6/2

Left Out: 782.042 $\pm$ 0.131 χ^2/NDF : 1130984.3/24

Right Out: 2597.239 $\pm$ 1.176 χ^2/NDF : 233741.9/4

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

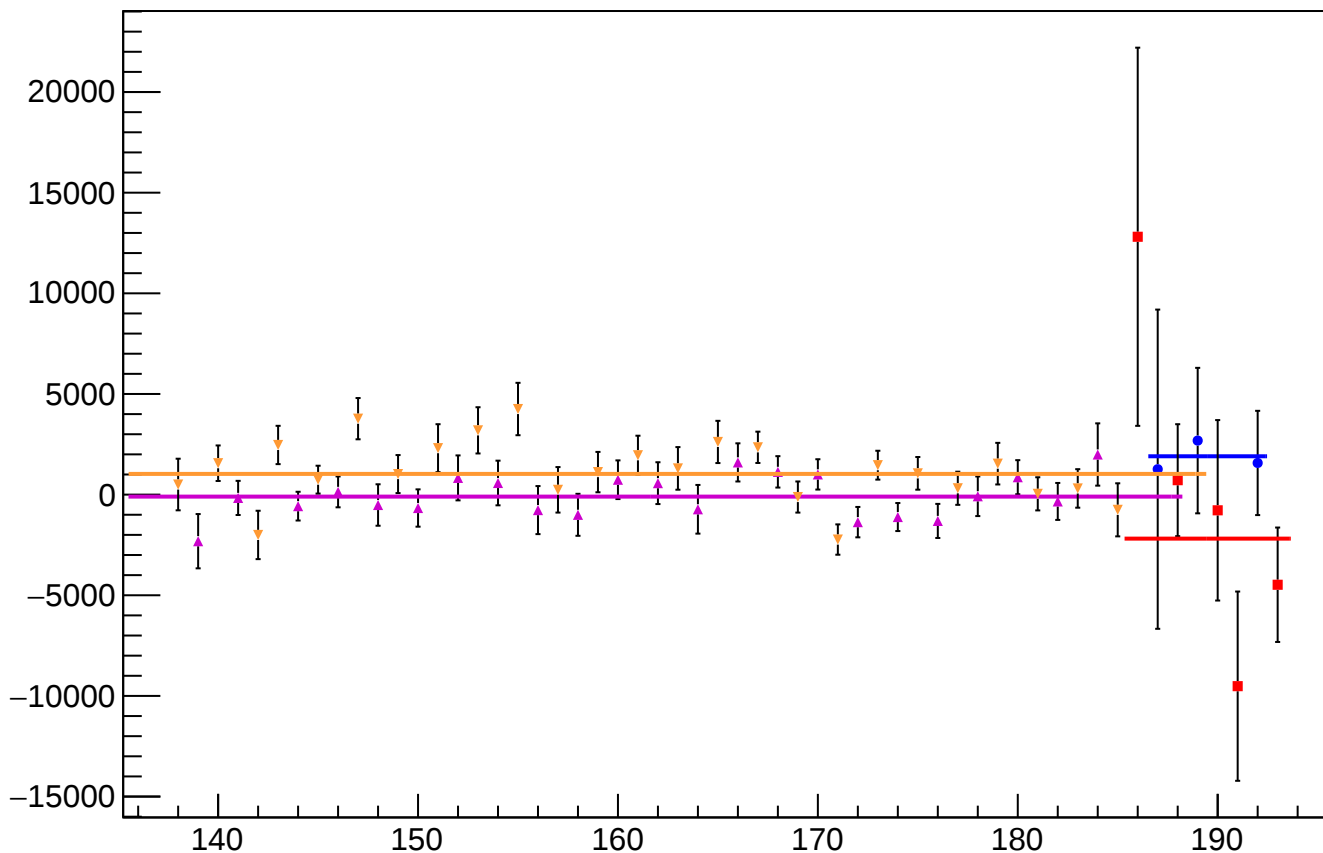
Right: 2541.799 $\pm$ 0.909 χ^2/NDF : 253608.0/7

In: 793.539 $\pm$ 0.133 χ^2/NDF : 2355784.8/25

Out: 804.325 $\pm$ 0.130 χ^2/NDF : 3719736.0/29

All: 799.061 $\pm$ 0.093 χ^2/NDF : 6078867.8/55

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1904.959 $\pm$ 2034.518 χ^2 /NDF: 0.1/2

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2185.811 $\pm$ 1667.966 χ^2 /NDF: 6.8/4

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

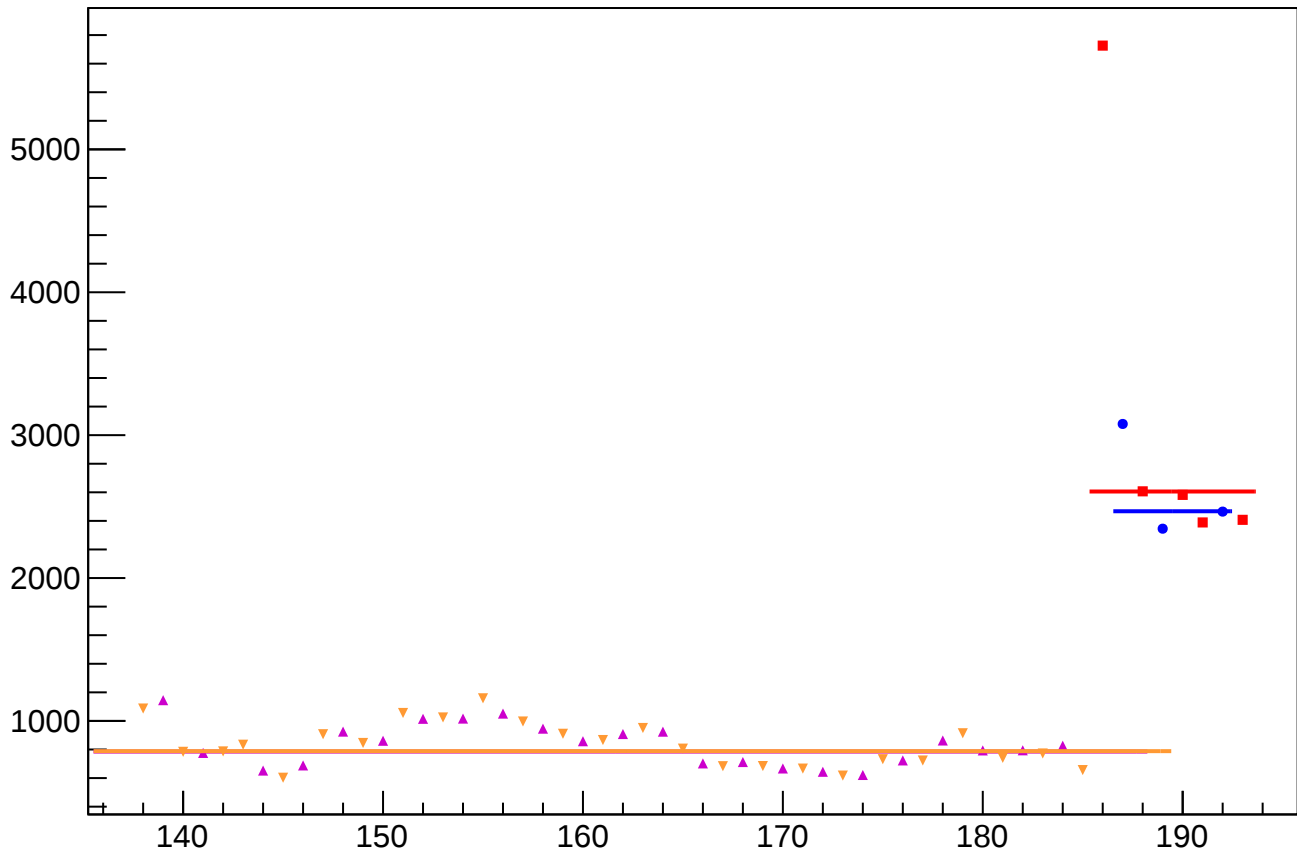
Right: -541.487 $\pm$ 1289.890 χ^2 /NDF: 9.3/7

In: -81.182 $\pm$ 190.190 χ^2 /NDF:26.4/25

Out: 989.039 $\pm$ 185.649 χ^2 /NDF:70.6/29

All: 466.858 $\pm$ 132.850 χ^2 /NDF: 113.3/55

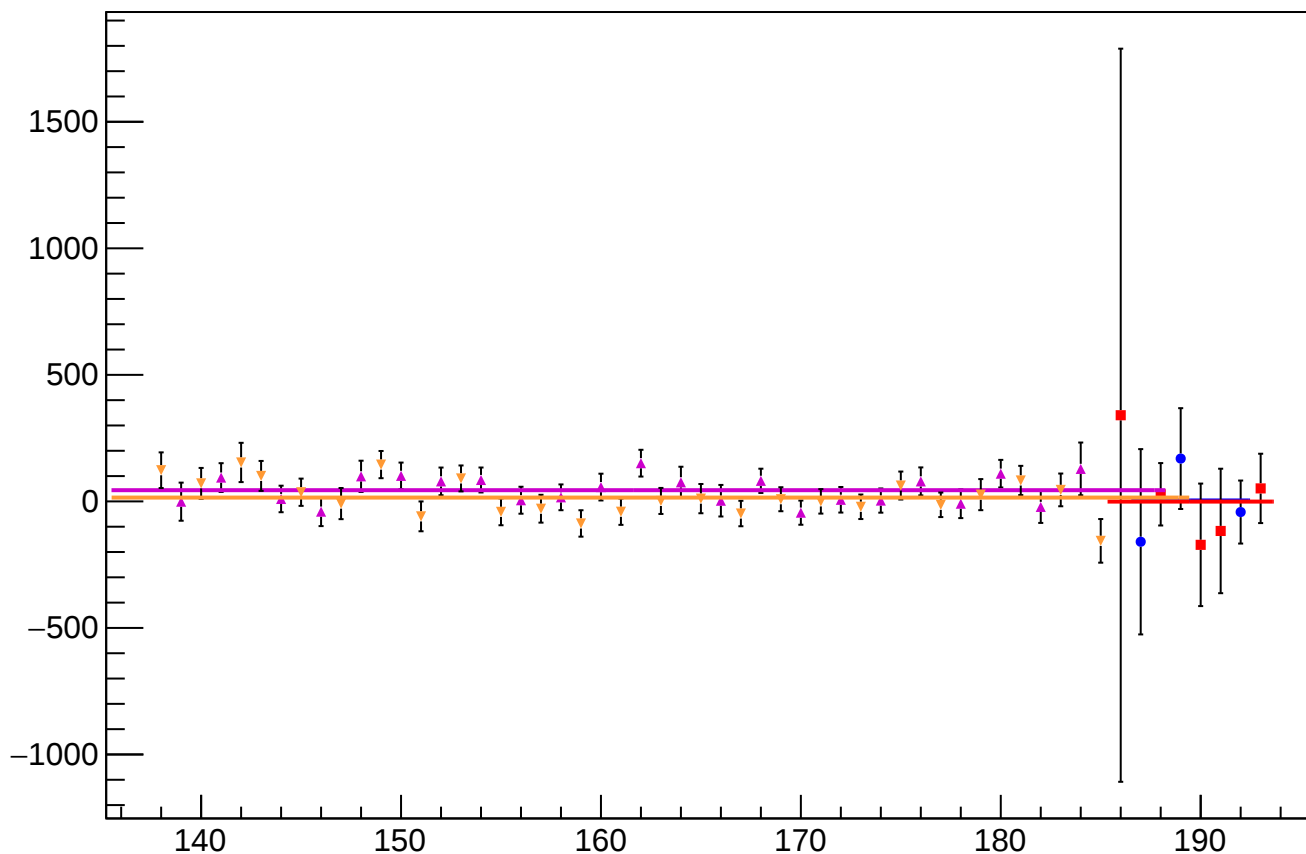
asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2467.416 $\pm$ 1.439 χ^2/NDF : 14160.4/2
 Left Out: 788.442 $\pm$ 0.132 χ^2/NDF :1113741.6/24
 Right Out: 2605.653 $\pm$ 1.179 χ^2/NDF : 234739.4/4
 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: 2550.087 $\pm$ 0.912 χ^2/NDF : 254421.7/7
 In: 800.188 $\pm$ 0.134 χ^2/NDF :2334404.3/25
 Out: 810.954 $\pm$ 0.131 χ^2/NDF :3692991.2/29
 All: 805.701 $\pm$ 0.094 χ^2/NDF : 6030677.1/55

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 3.688 ± 101.434 $\chi^2/\text{NDF}: 1.0/2$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -0.752 ± 80.815 $\chi^2/\text{NDF}: 1.0/4$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

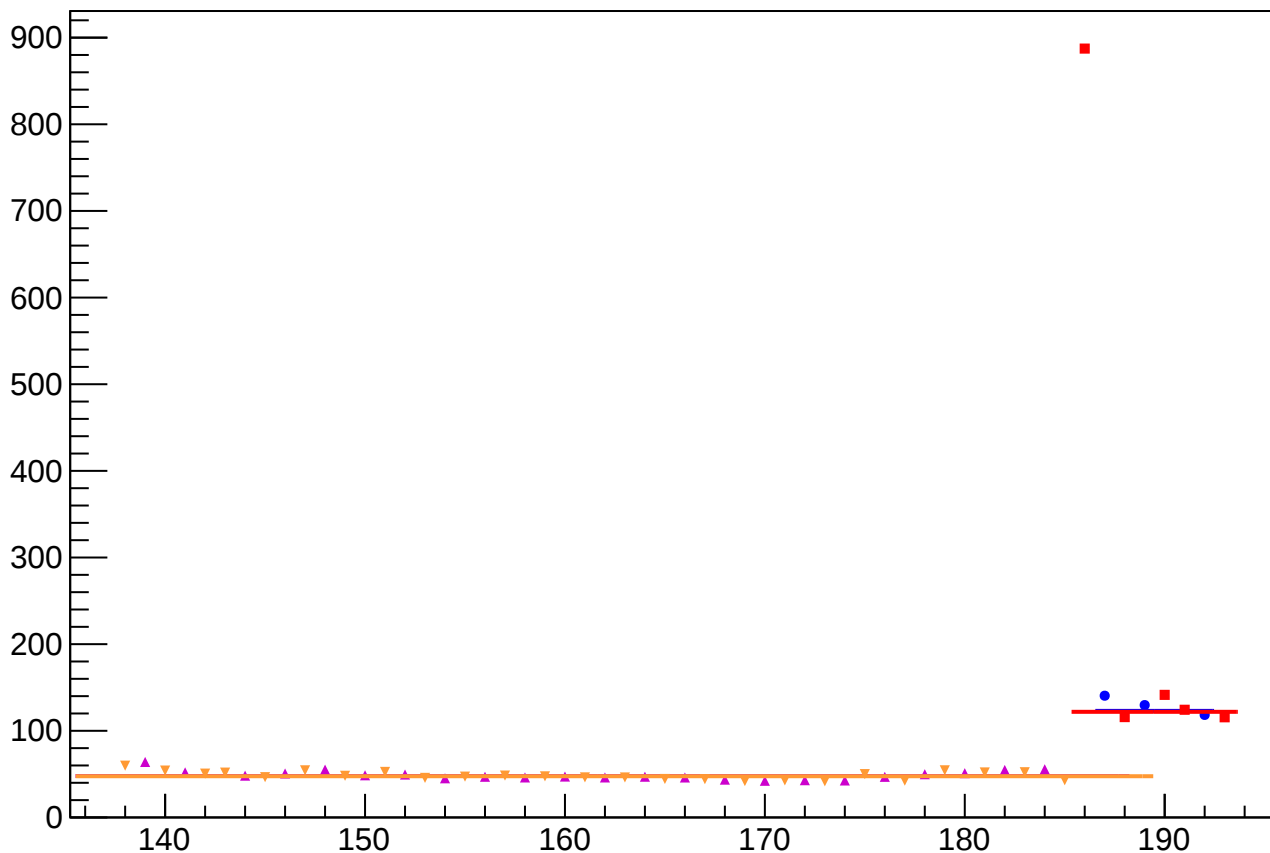
Right: 0.972 ± 63.207 $\chi^2/\text{NDF}: 2.0/7$

In: 43.779 ± 11.456 $\chi^2/\text{NDF}: 23.5/25$

Out: 14.803 ± 11.050 $\chi^2/\text{NDF}: 35.2/29$

All: 28.768 ± 7.953 $\chi^2/\text{NDF}: 62.0/55$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 122.986 $\pm$ 0.072 χ^2 /NDF: 9638.4/2

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 121.917 $\pm$ 0.057 χ^2 /NDF: 580957.0/4

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

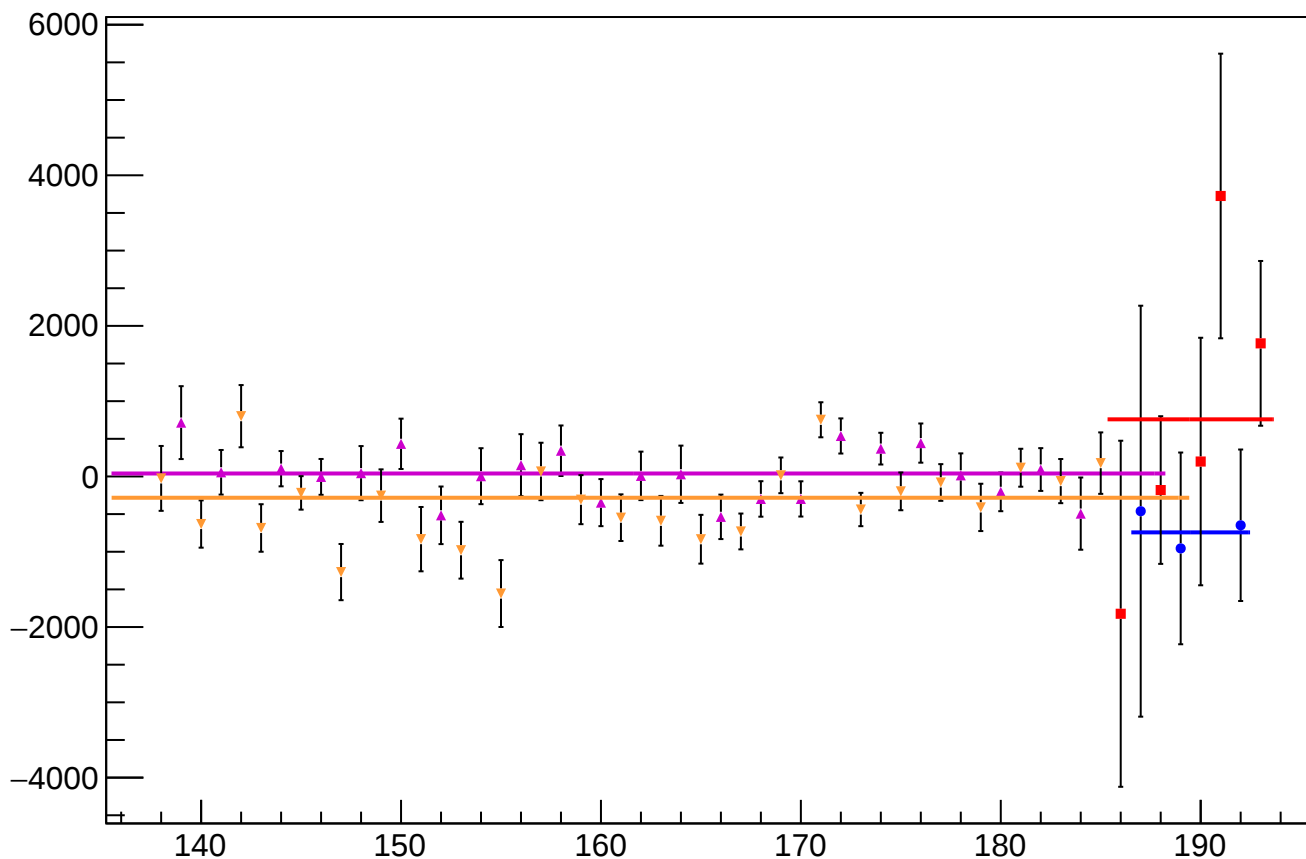
Right: 122.332 $\pm$ 0.045 χ^2 /NDF: 590731.4/7

In: 48.805 $\pm$ 0.008 χ^2 /NDF: 1374941.4/25

Out: 48.976 $\pm$ 0.008 χ^2 /NDF: 2554100.9/29

All: 48.893 $\pm$ 0.006 χ^2 /NDF: 3929273.8/55

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -742.763+/-758.306 χ^2/NDF : 0.0/2

Left Out: -282.798+/-59.690 χ^2/NDF :66.5/24

Right Out: 758.679+/-606.921 χ^2/NDF : 5.6/4

Left In: 39.432+/-60.759 χ^2/NDF :27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

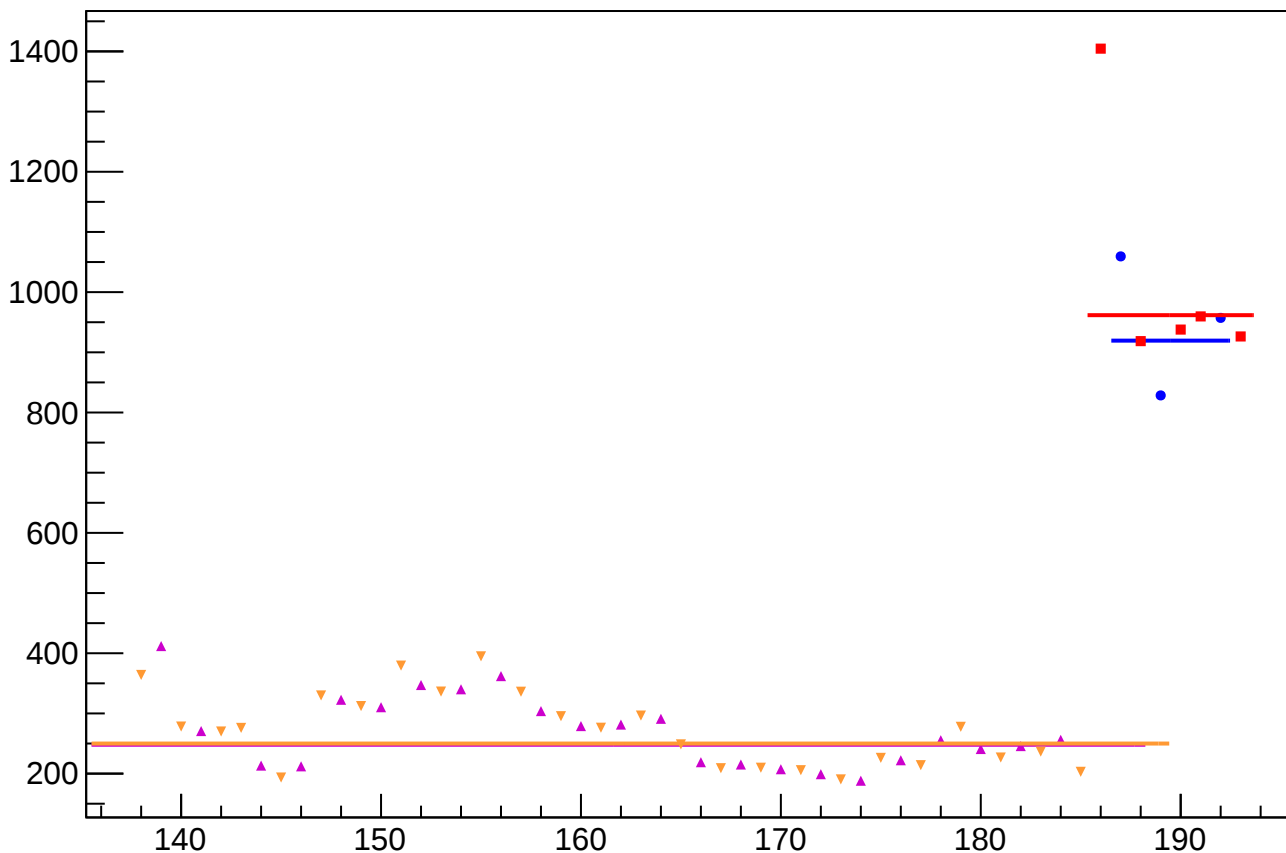
Right: 172.426+/-473.841 χ^2/NDF : 8.0/7

In: 34.442+/-60.565 χ^2/NDF :28.7/25

Out: -272.821+/-59.403 χ^2/NDF :75.0/29

All: -122.164+/-42.409 χ^2/NDF : 116.8/55

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 919.420 $\pm$ 0.536 χ^2 /NDF: 18306.2/2

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 961.724 $\pm$ 0.429 χ^2 /NDF: 80642.4/4

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

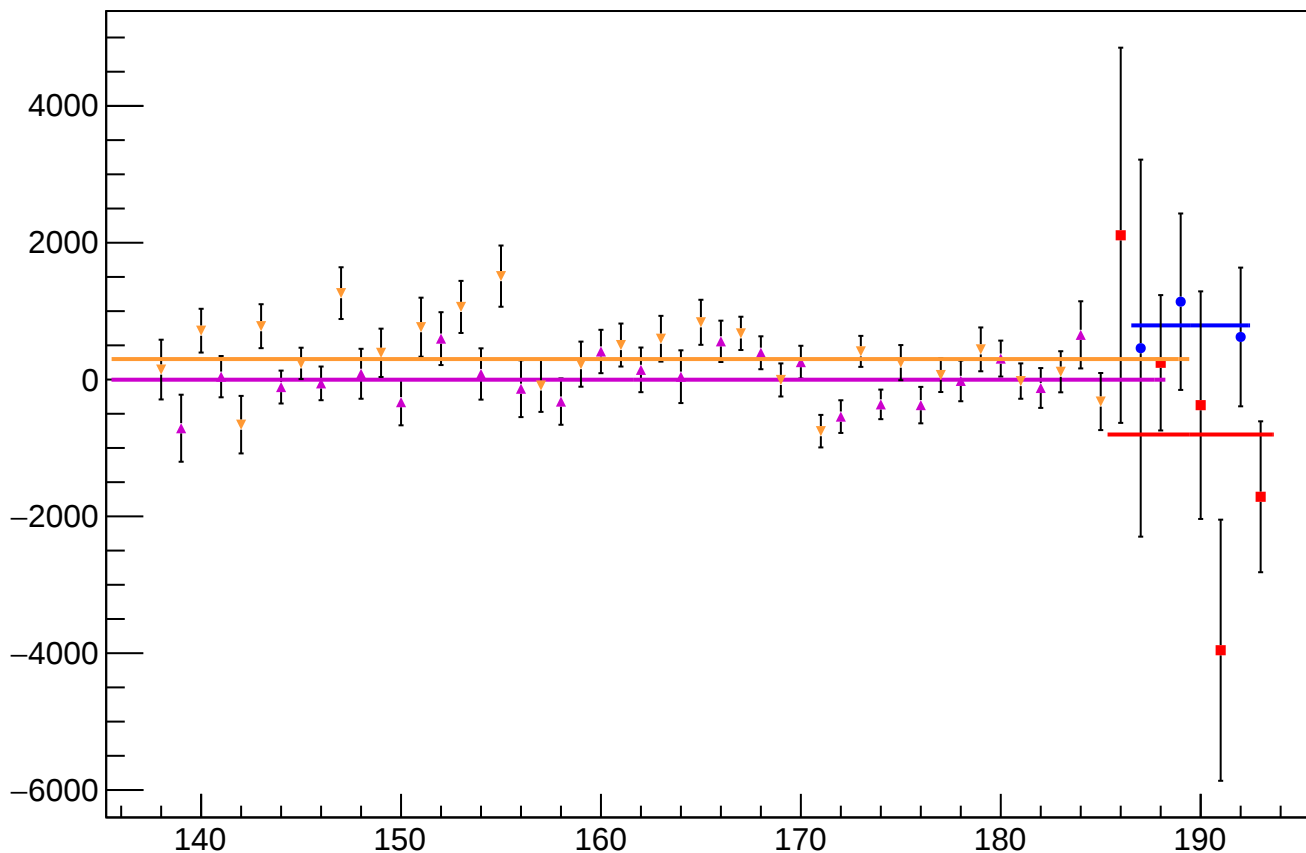
Right: 945.206 $\pm$ 0.335 χ^2 /NDF: 102742.7/7

In: 252.200 $\pm$ 0.043 χ^2 /NDF:2987477.8/25

Out: 256.775 $\pm$ 0.042 χ^2 /NDF:4419193.5/29

All: 254.532 $\pm$ 0.030 χ^2 /NDF: 7412486.9/55

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 791.670 ± 765.639 $\chi^2/\text{NDF}: 0.1/2$

Left Out: 299.562 ± 60.860 $\chi^2/\text{NDF}: 62.5/24$

Right Out: -803.322 ± 618.690 $\chi^2/\text{NDF}: 5.7/4$

Left In: -2.185 ± 62.005 $\chi^2/\text{NDF}: 29.2/22$

Left: 151.501 ± 43.433 $\chi^2/\text{NDF}: 103.7/47$

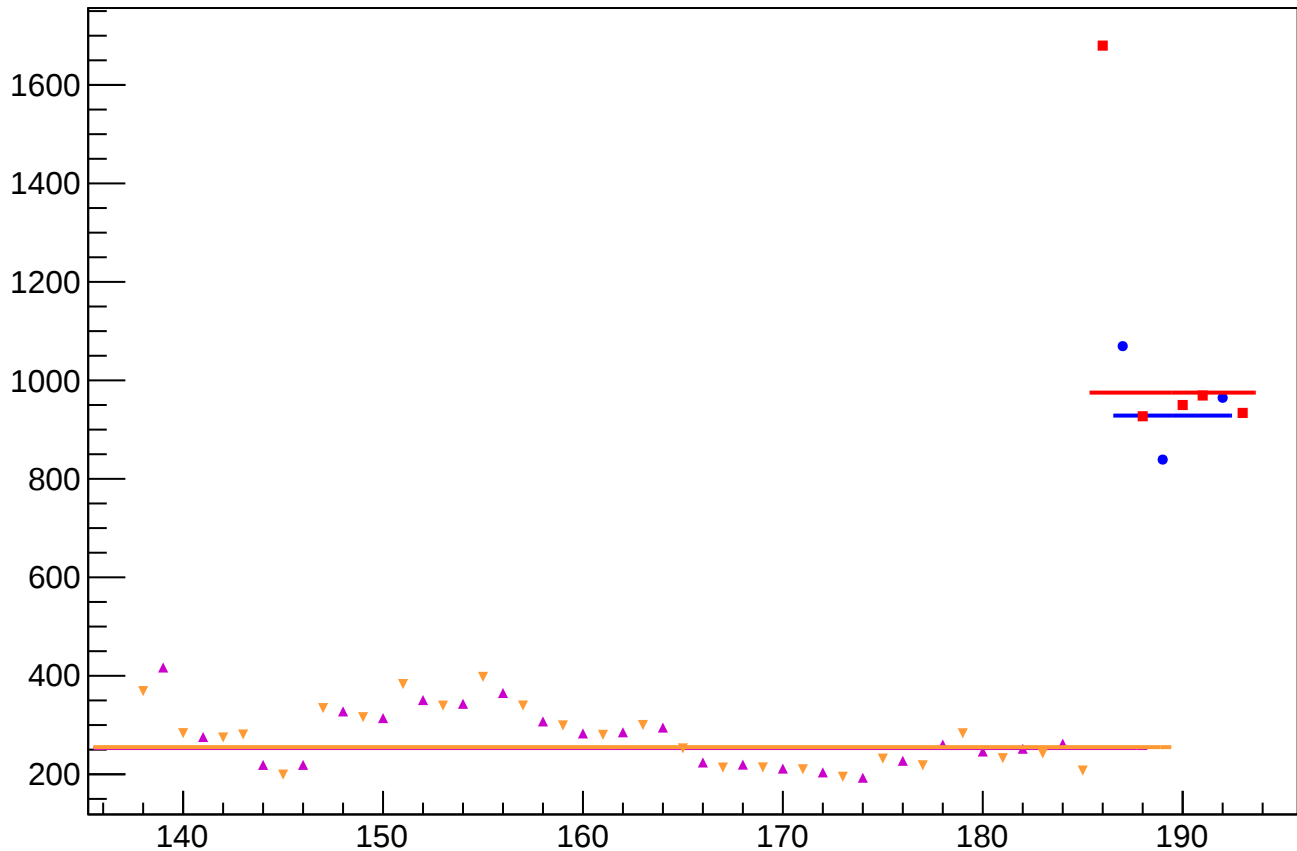
Right: -173.250 ± 481.216 $\chi^2/\text{NDF}: 8.5/7$

In: 2.987 ± 61.802 $\chi^2/\text{NDF}: 30.4/25$

Out: 288.993 ± 60.567 $\chi^2/\text{NDF}: 71.4/29$

All: 148.876 ± 43.258 $\chi^2/\text{NDF}: 112.6/55$

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 928.488 $\pm$ 0.541 χ^2/NDF : 17384.1/2

Left Out: 255.135 $\pm$ 0.043 χ^2/NDF : 1542039.5/24

Right Out: 975.148 $\pm$ 0.437 χ^2/NDF : 140046.7/4

Left In: 253.287 $\pm$ 0.044 χ^2/NDF : 1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2/NDF : 2884606.5/47

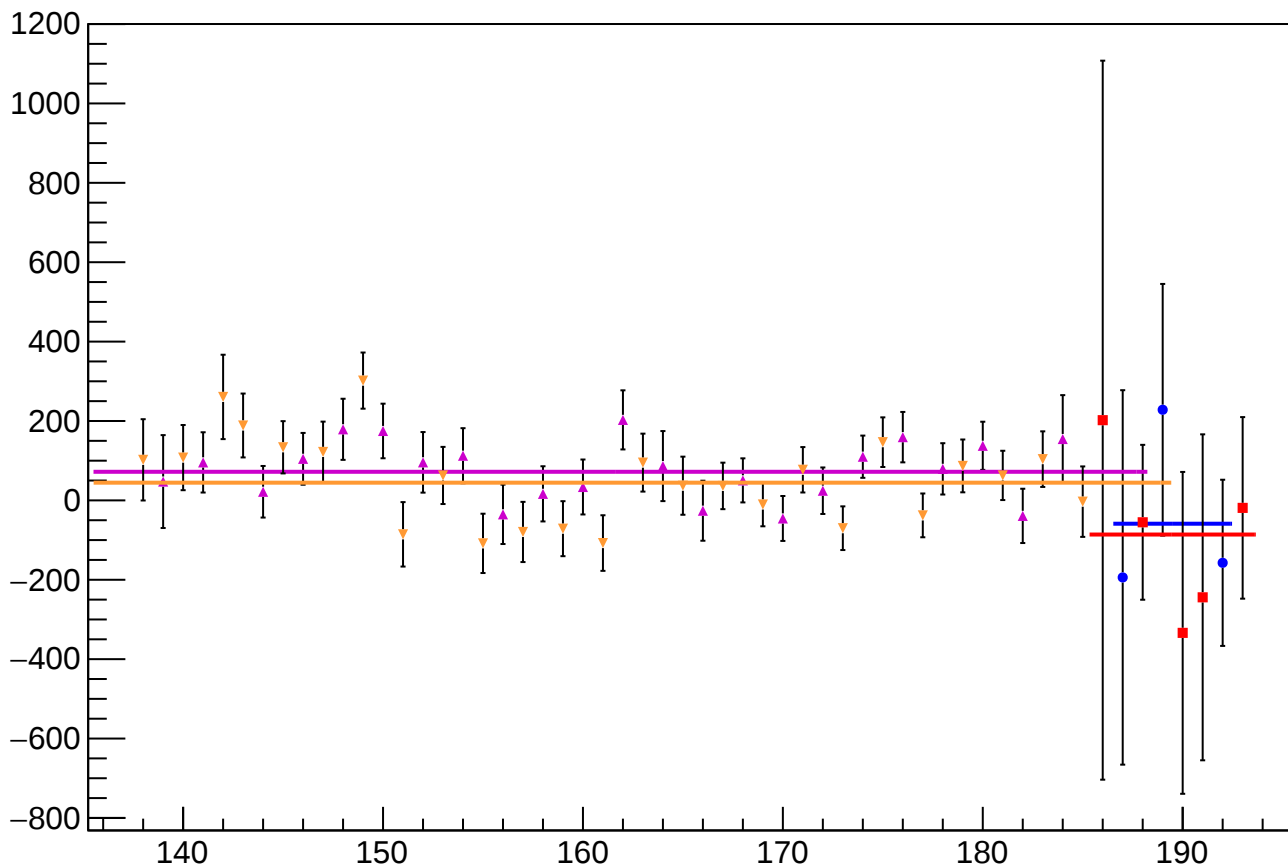
Right: 956.716 $\pm$ 0.340 χ^2/NDF : 161924.6/7

In: 257.687 $\pm$ 0.044 χ^2/NDF : 2904332.2/25

Out: 262.036 $\pm$ 0.043 χ^2/NDF : 4364843.7/29

All: 259.905 $\pm$ 0.031 χ^2/NDF : 7274227.5/55

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -58.787 $\pm$ 163.804 χ^2 /NDF: 1.1/2

Left Out: 44.602 $\pm$ 13.824 χ^2 /NDF:53.9/24

Right Out: -86.032 $\pm$ 130.604 χ^2 /NDF: 0.7/4

Left In: 72.037 $\pm$ 14.296 χ^2 /NDF:25.3/22

Left: 57.859 $\pm$ 9.938 χ^2 /NDF: 81.1/47

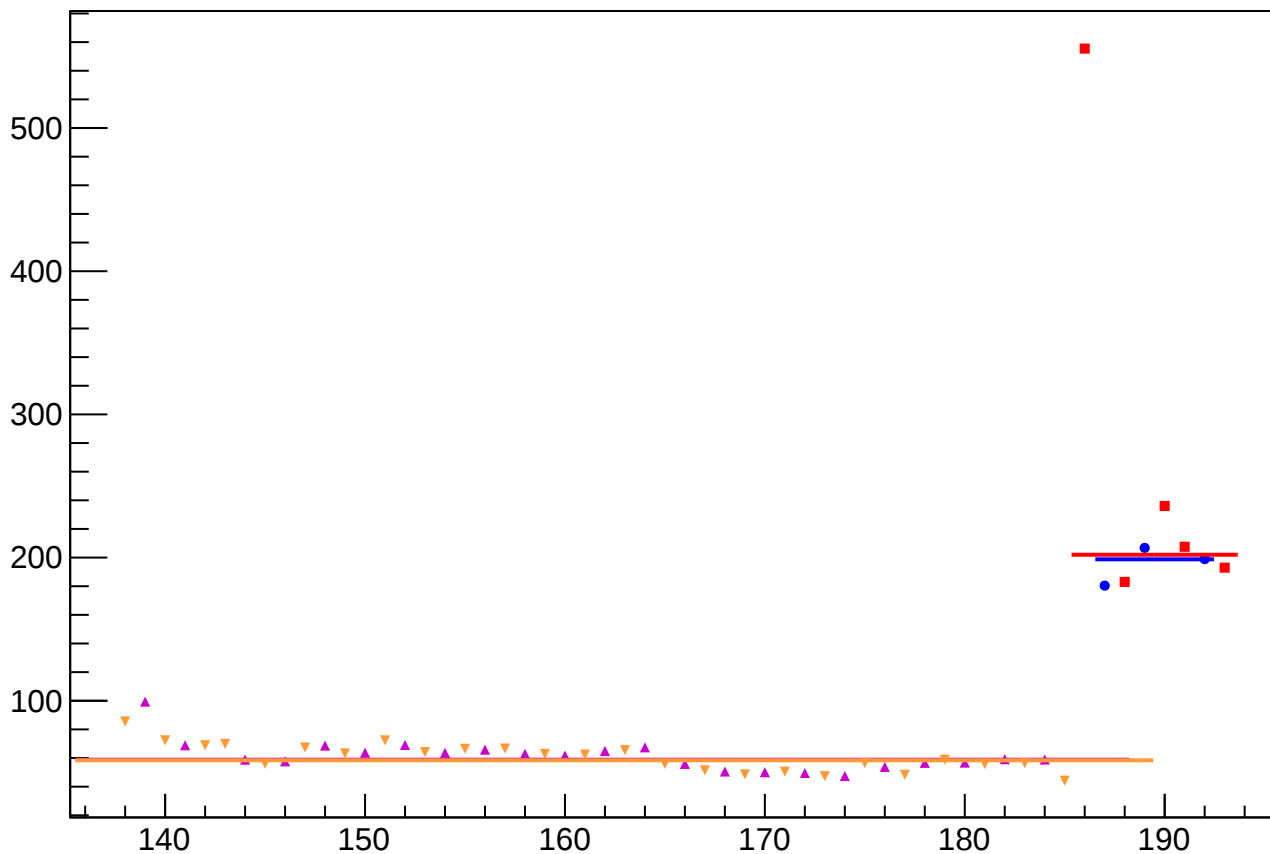
Right: -75.443 $\pm$ 102.118 χ^2 /NDF: 1.9/7

In: 71.048 $\pm$ 14.242 χ^2 /NDF:27.1/25

Out: 43.154 $\pm$ 13.747 χ^2 /NDF:55.6/29

All: 56.608 $\pm$ 9.891 χ^2 /NDF: 84.7/55

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 198.783 $\pm$ 0.116 χ^2 /NDF: 4296.4/2

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 201.990 $\pm$ 0.092 χ^2 /NDF: 341198.4/4

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

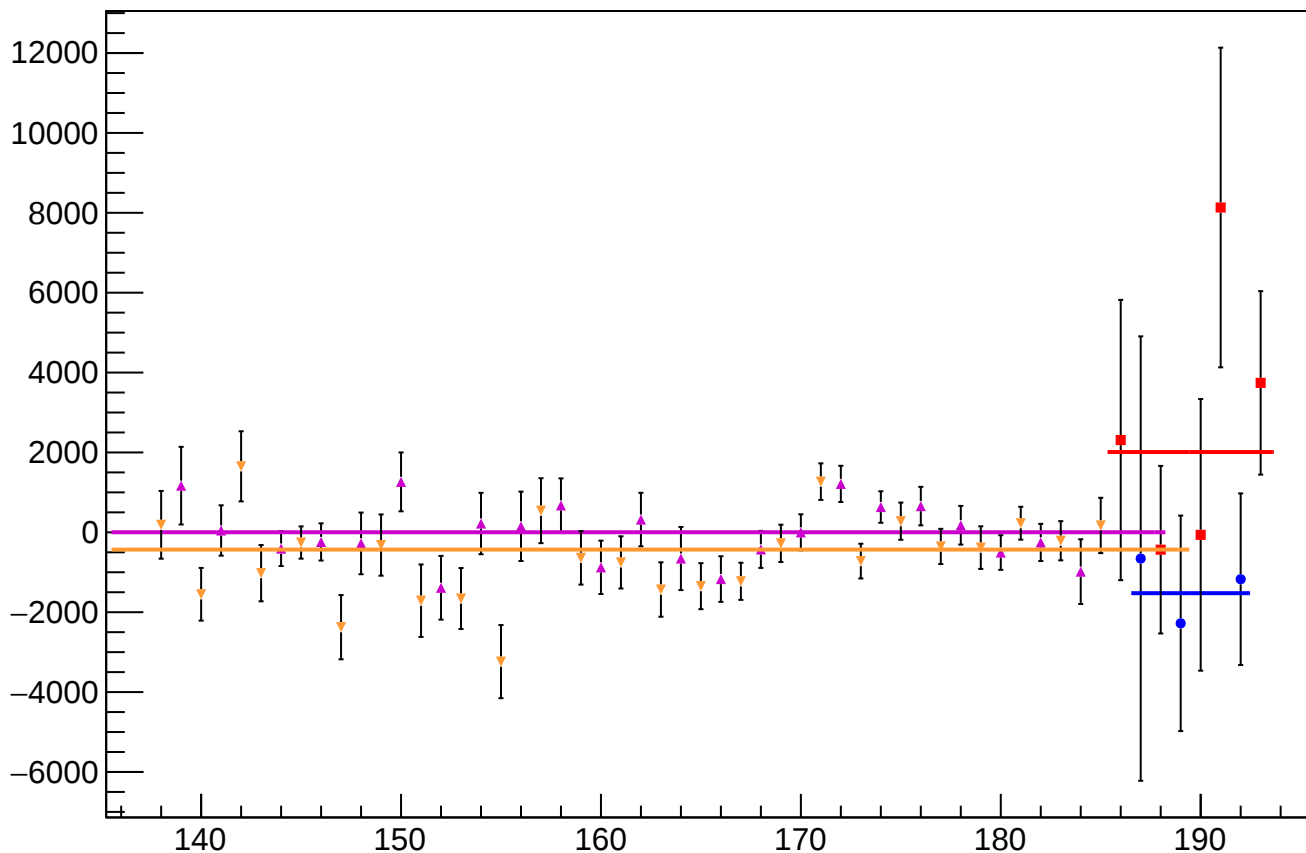
Right: 200.744 $\pm$ 0.072 χ^2 /NDF: 345963.6/7

In: 59.898 $\pm$ 0.010 χ^2 /NDF: 2132949.2/25

Out: 60.014 $\pm$ 0.010 χ^2 /NDF: 3521252.3/29

All: 59.958 $\pm$ 0.007 χ^2 /NDF: 5654270.0/55

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1523.645+/-1608.815 χ^2/NDF : 0.1/2

Left Out: -432.330+/-114.408 χ^2/NDF : 59.4/24

Right Out: 2010.343+/-1243.249 χ^2/NDF : 4.6/4

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

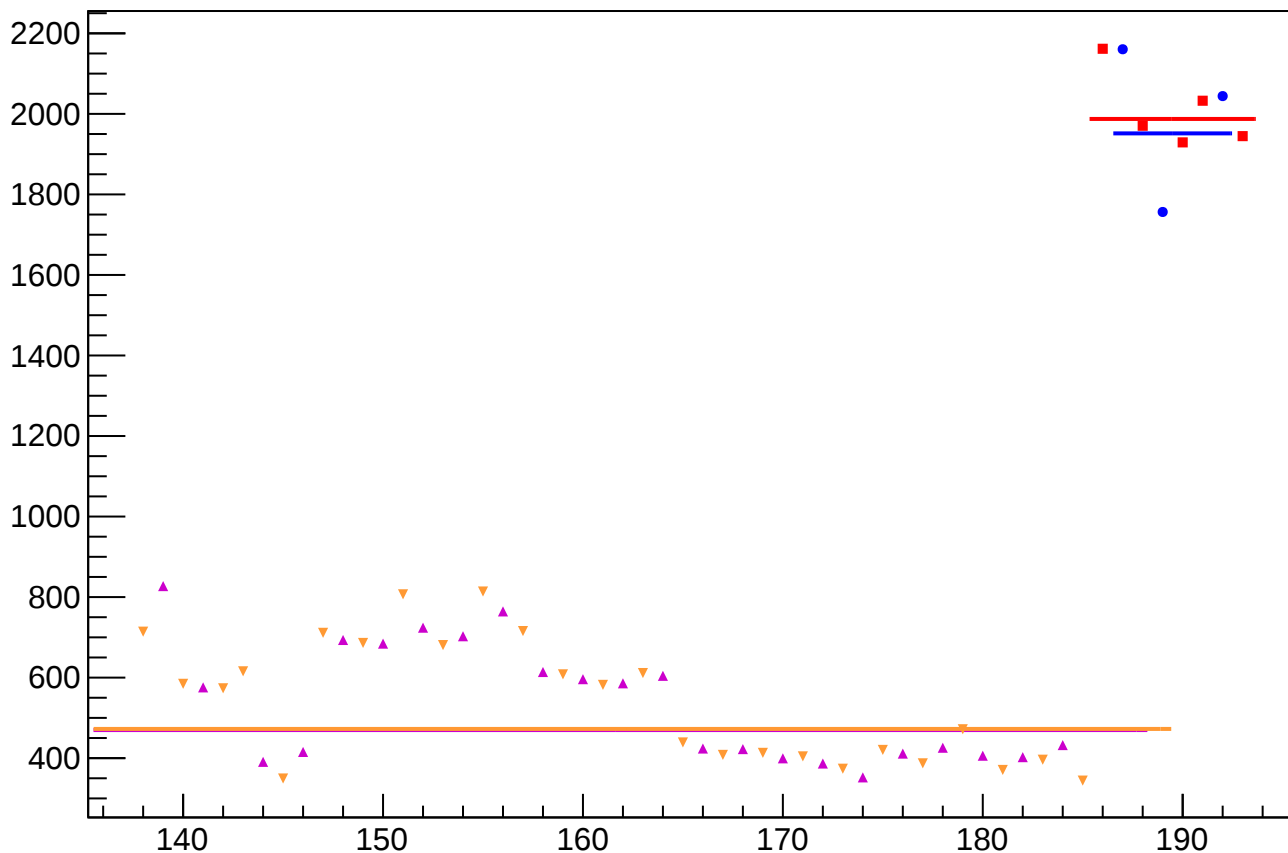
Right: 689.000+/-983.742 χ^2/NDF : 7.8/7

In: -6.127+/-116.155 χ^2/NDF : 33.3/25

Out: -411.818+/-113.927 χ^2/NDF : 67.9/29

All: -212.901+/-81.335 χ^2/NDF : 107.4/55

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1951.558 $\pm$ 1.138 χ^2 /NDF: 17000.8/2

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF:2508168.9/24

Right Out: 1987.426 $\pm$ 0.879 χ^2 /NDF: 6596.4/4

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

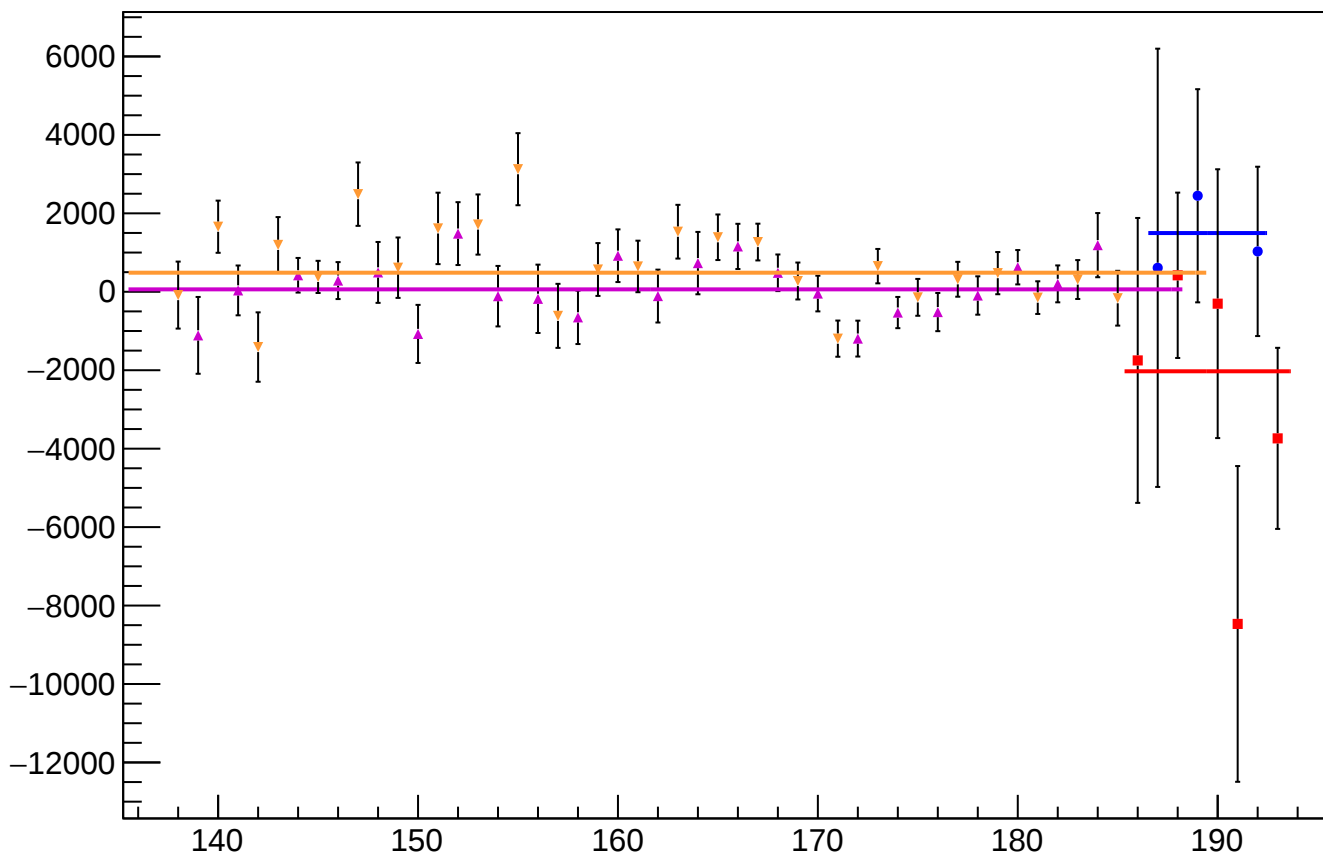
Right: 1974.015 $\pm$ 0.696 χ^2 /NDF: 24219.6/7

In: 477.485 $\pm$ 0.082 χ^2 /NDF:3821701.9/25

Out: 485.289 $\pm$ 0.081 χ^2 /NDF:5459153.3/29

All: 481.463 $\pm$ 0.058 χ^2 /NDF: 9285456.6/55

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1497.409+/-1617.847 χ^2/NDF : 0.2/2

Left Out: 486.645+/-115.346 χ^2/NDF : 56.0/24

Right Out: -2027.086+/-1254.563 χ^2/NDF : 4.7/4

Left In: 61.775+/-117.449 χ^2/NDF : 31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

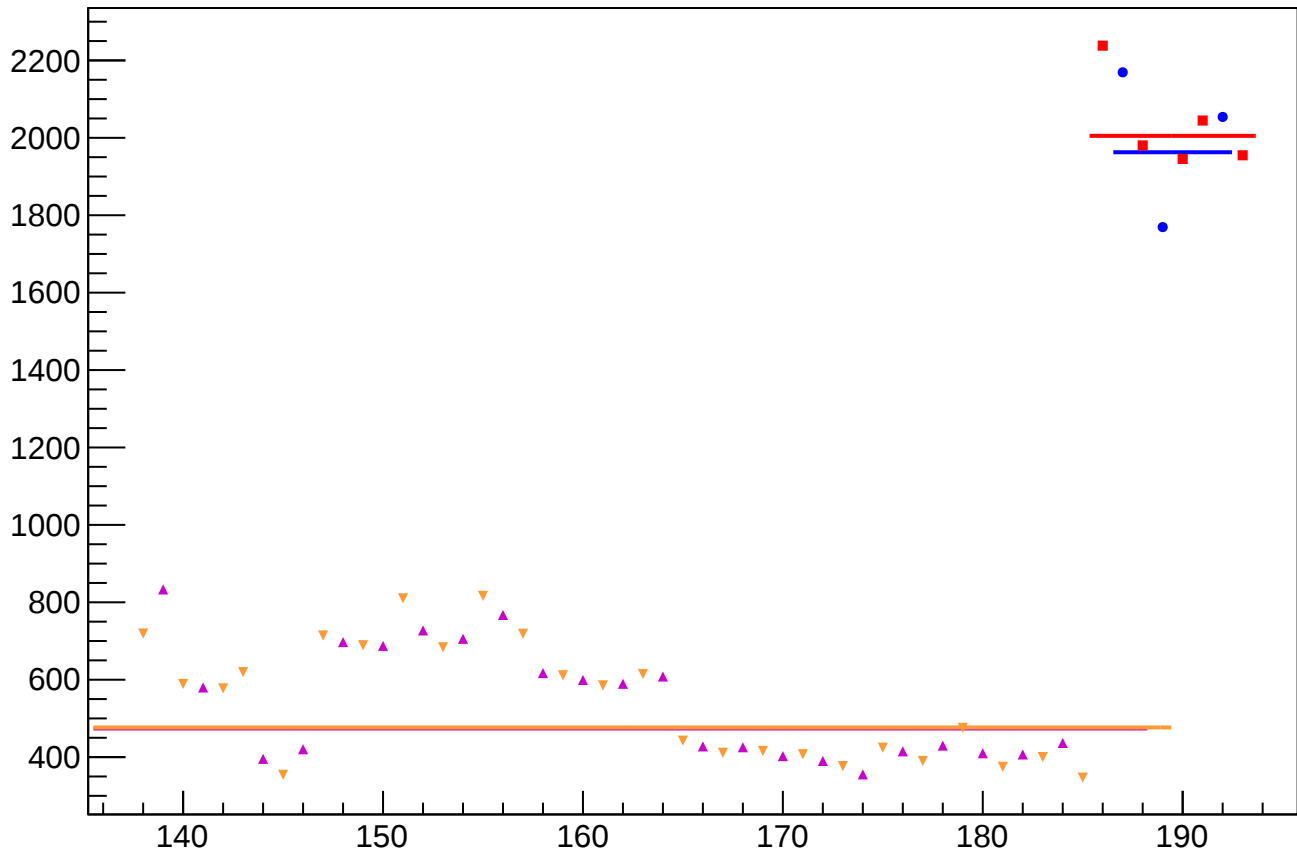
Right: -703.576+/-991.409 χ^2/NDF : 7.9/7

In: 69.301+/-117.141 χ^2/NDF : 32.1/25

Out: 465.574+/-114.862 χ^2/NDF : 64.7/29

All: 271.330+/-82.013 χ^2/NDF : 102.7/55

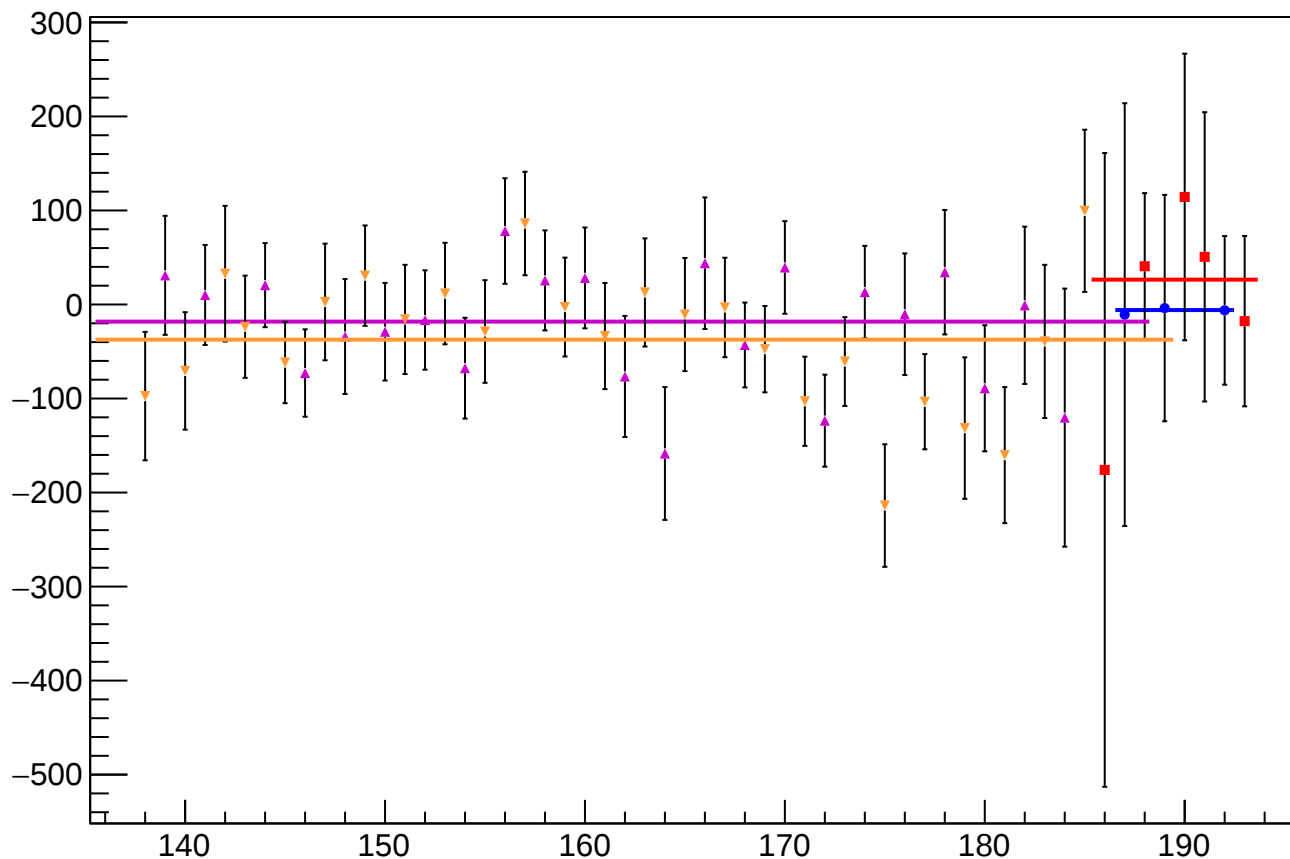
asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1962.739 $\pm$ 1.144 χ^2 /NDF: 16434.1/2
 Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24
 Right Out: 2005.138 $\pm$ 0.887 χ^2 /NDF: 10254.7/4
 Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47
 Right: 1989.216 $\pm$ 0.701 χ^2 /NDF: 27546.6/7
 In: 481.788 $\pm$ 0.083 χ^2 /NDF: 3788233.5/25
 Out: 489.502 $\pm$ 0.081 χ^2 /NDF: 5426669.6/29
 All: 485.721 $\pm$ 0.058 χ^2 /NDF: 9219324.6/55

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -5.934 ± 63.402 χ^2/NDF : 0.0/2

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 26.439 ± 51.206 χ^2/NDF : 1.0/4

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

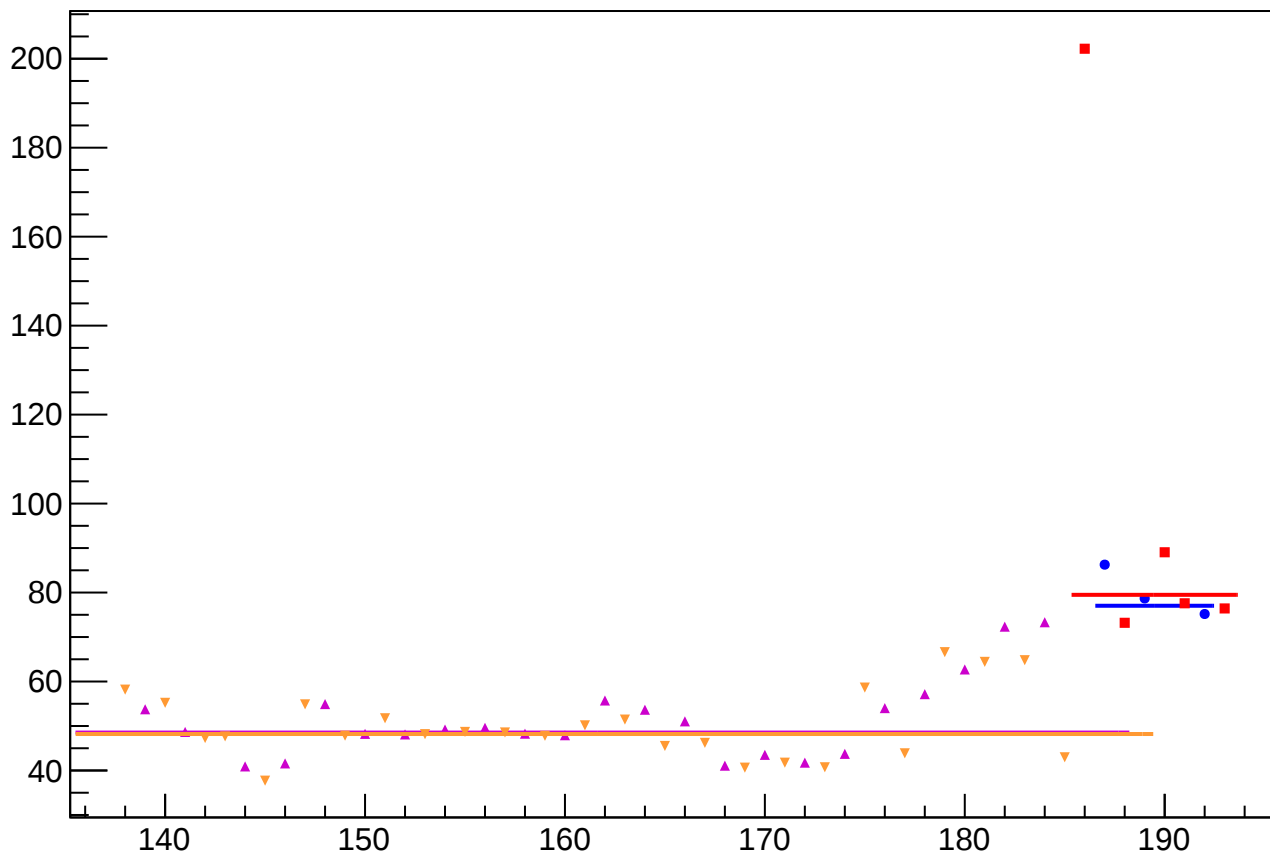
Right: 13.658 ± 39.836 χ^2/NDF : 1.1/7

In: -17.800 ± 11.589 χ^2/NDF : 23.0/25

Out: -34.403 ± 11.118 χ^2/NDF : 32.9/29

All: -26.446 ± 8.023 χ^2/NDF : 57.0/55

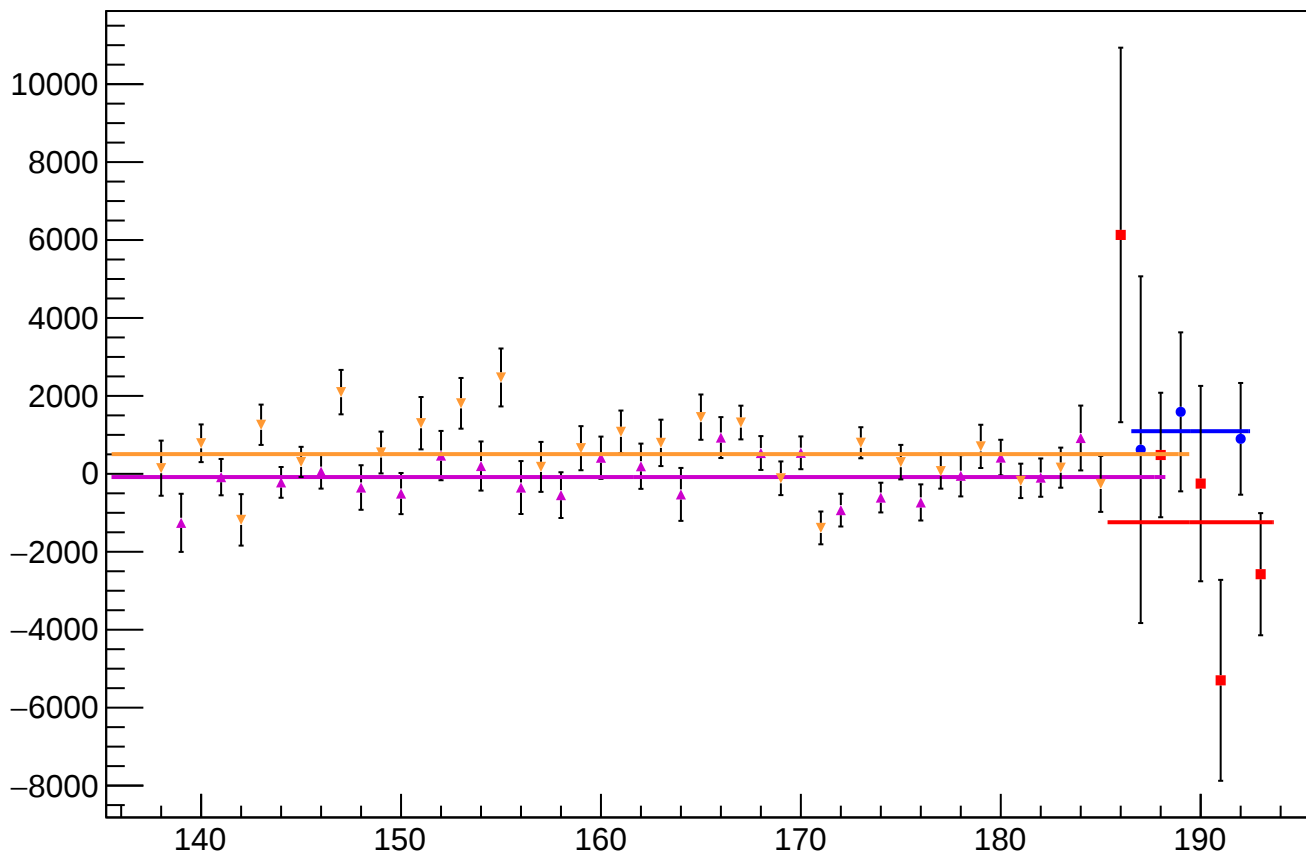
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 77.031 $\pm$ 0.045 χ^2 /NDF: 4850.8/2
 Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24
 Right Out: 79.486 $\pm$ 0.036 χ^2 /NDF: 288879.8/4
 Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47
 Right: 78.517 $\pm$ 0.028 χ^2 /NDF: 295545.2/7
 In: 49.479 $\pm$ 0.008 χ^2 /NDF: 1070937.8/25
 Out: 49.675 $\pm$ 0.008 χ^2 /NDF: 1750498.0/29
 All: 49.581 $\pm$ 0.006 χ^2 /NDF: 2821732.0/55

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1094.195 $\pm$ 1134.244 χ^2 /NDF: 0.1/2

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1241.864 $\pm$ 931.712 χ^2 /NDF: 6.9/4

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

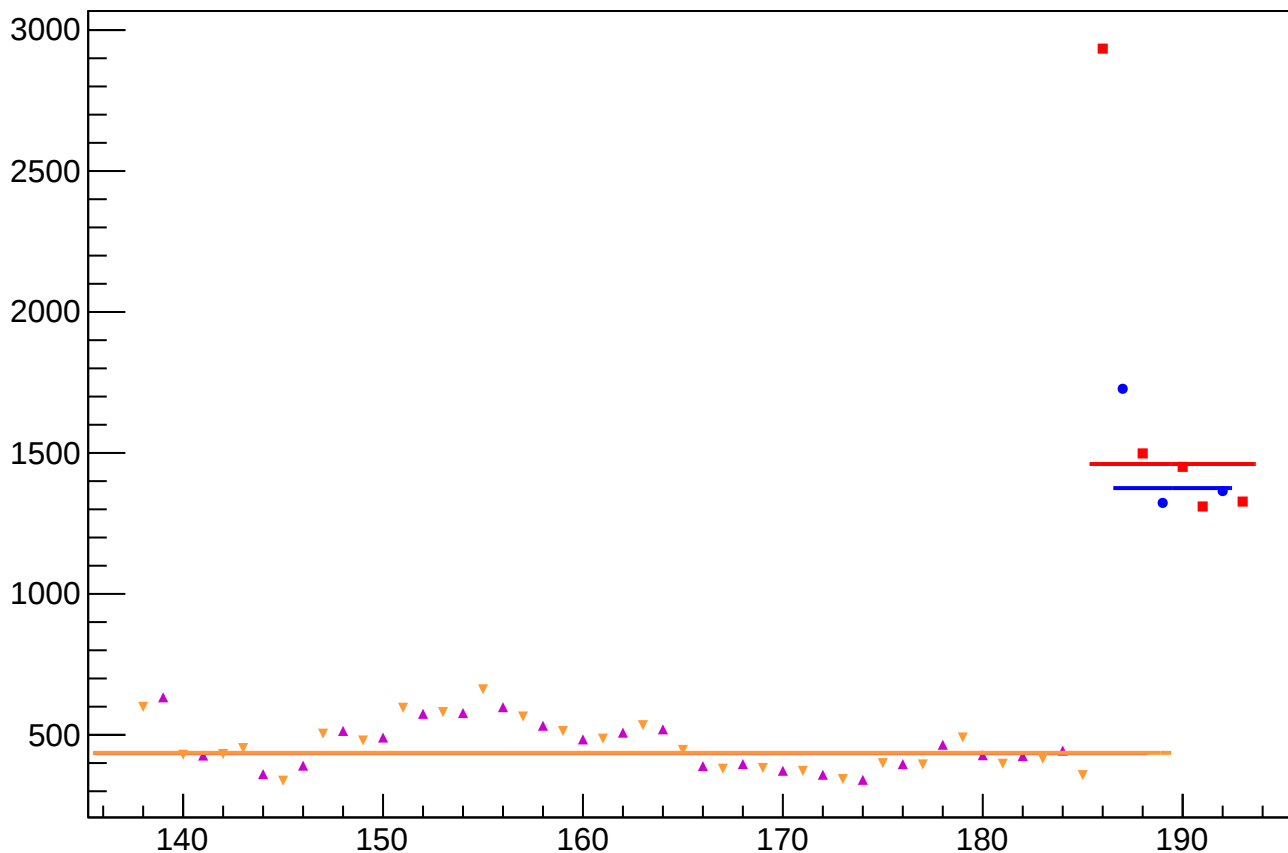
Right: -300.666 $\pm$ 719.955 χ^2 /NDF: 9.5/7

In: -72.246 $\pm$ 105.476 χ^2 /NDF:26.5/25

Out: 484.910 $\pm$ 102.836 χ^2 /NDF:76.1/29

All: 213.394 $\pm$ 73.632 χ^2 /NDF: 116.9/55

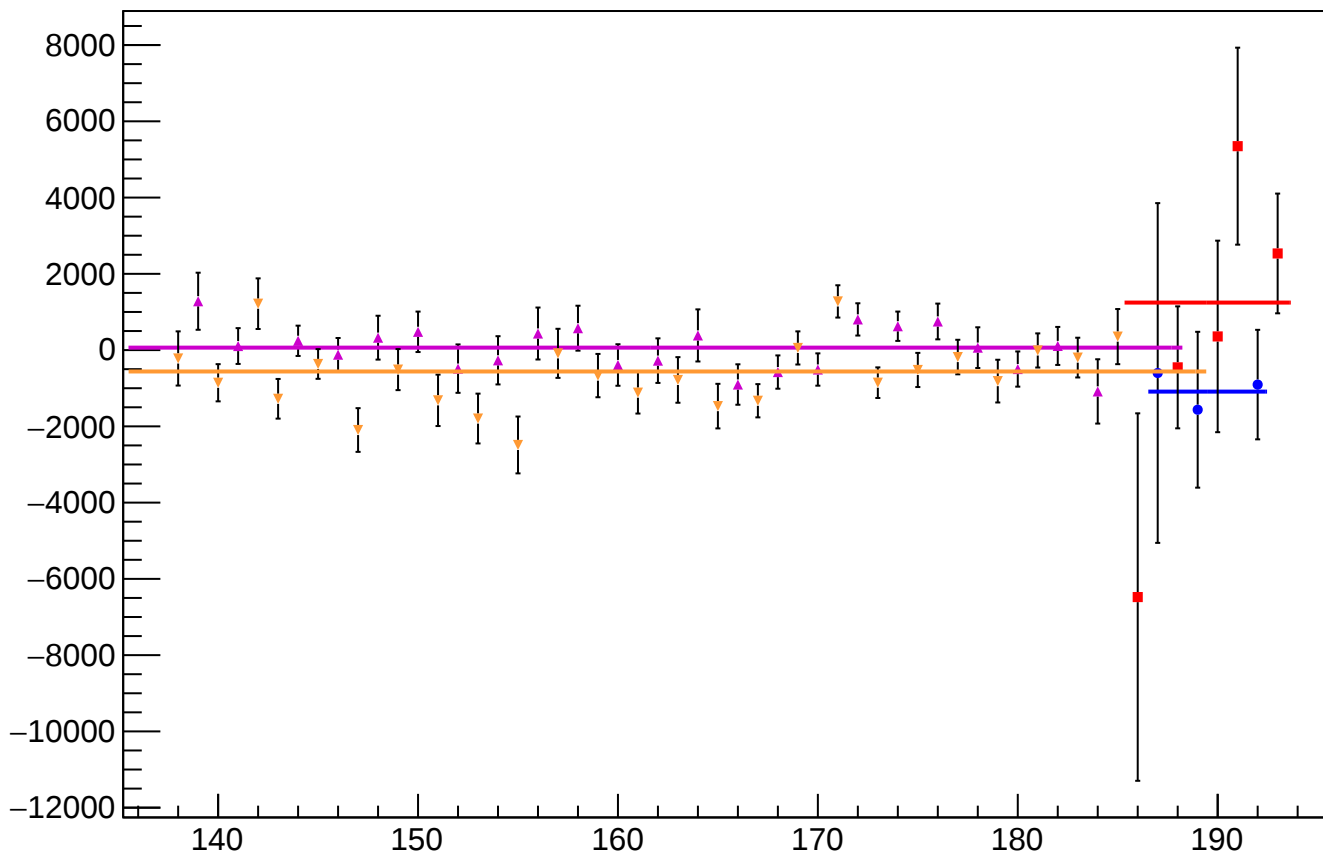
asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1375.353+/-0.802 χ^2/NDF : 13979.8/2
 Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24
 Right Out: 1460.778+/-0.659 χ^2/NDF : 210454.9/4
 Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47
 Right: 1426.360+/-0.509 χ^2/NDF : 231208.5/7
 In: 443.404+/-0.075 χ^2/NDF :2403677.4/25
 Out: 448.782+/-0.073 χ^2/NDF :3778423.9/29
 All: 446.161+/-0.052 χ^2/NDF : 6184766.3/55

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1088.638 ± 1136.094 $\chi^2/\text{NDF}: 0.1/2$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 1246.138 ± 933.284 $\chi^2/\text{NDF}: 7.0/4$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

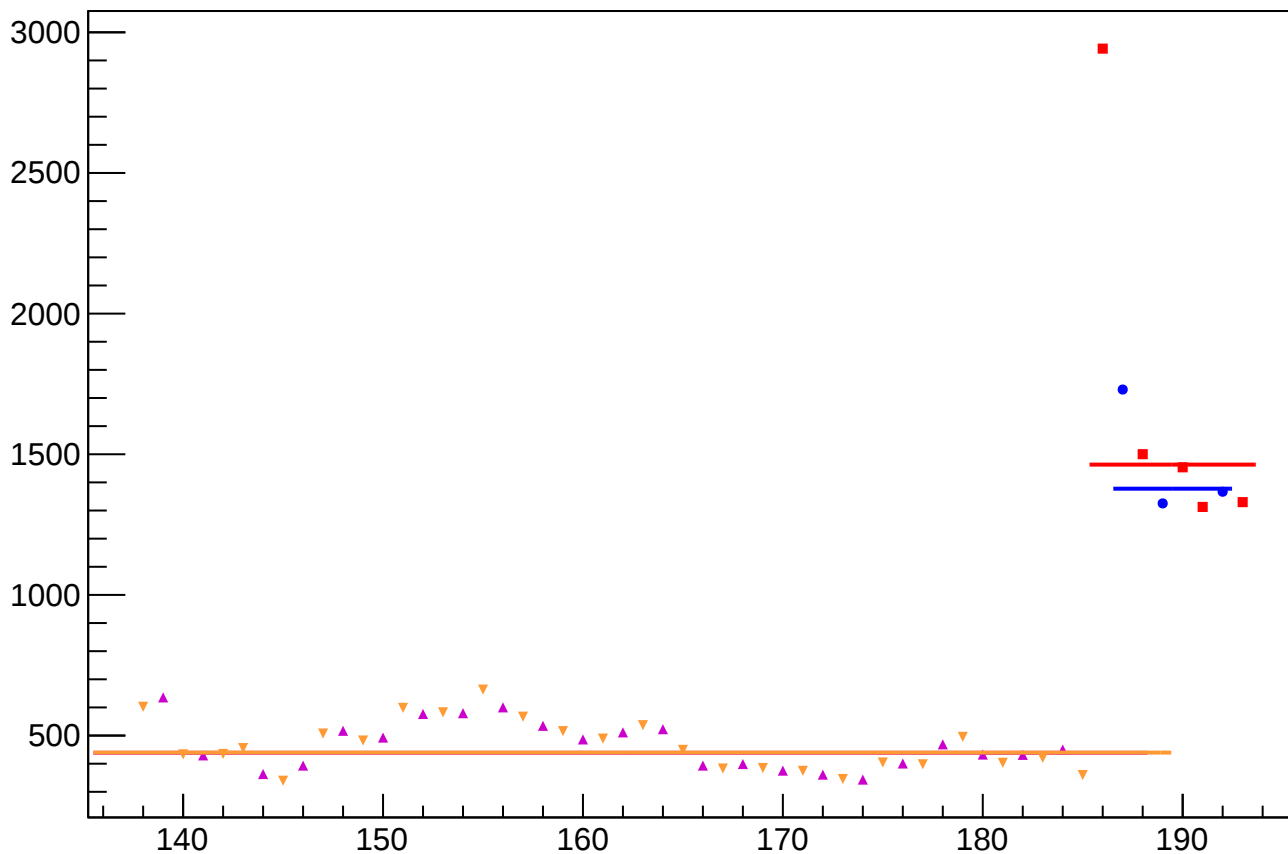
Right: 305.394 ± 721.153 $\chi^2/\text{NDF}: 9.6/7$

In: 54.510 ± 106.240 $\chi^2/\text{NDF}: 26.3/25$

Out: -538.435 ± 103.564 $\chi^2/\text{NDF}: 72.5/29$

All: -249.526 ± 74.159 $\chi^2/\text{NDF}: 114.7/55$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Left: 439.049 $\pm$ 0.053 χ^2/NDF : 2176510.4/47

Right: 1428.733 $\pm$ 0.510 χ^2/NDF : 231408.1/7

In: 446.760 $\pm$ 0.075 χ^2/NDF : 2381539.3/25

Out: 452.132 $\pm$ 0.073 χ^2/NDF : 3750686.8/29

All: 449.515 $\pm$ 0.052 χ^2/NDF : 6134848.8/55

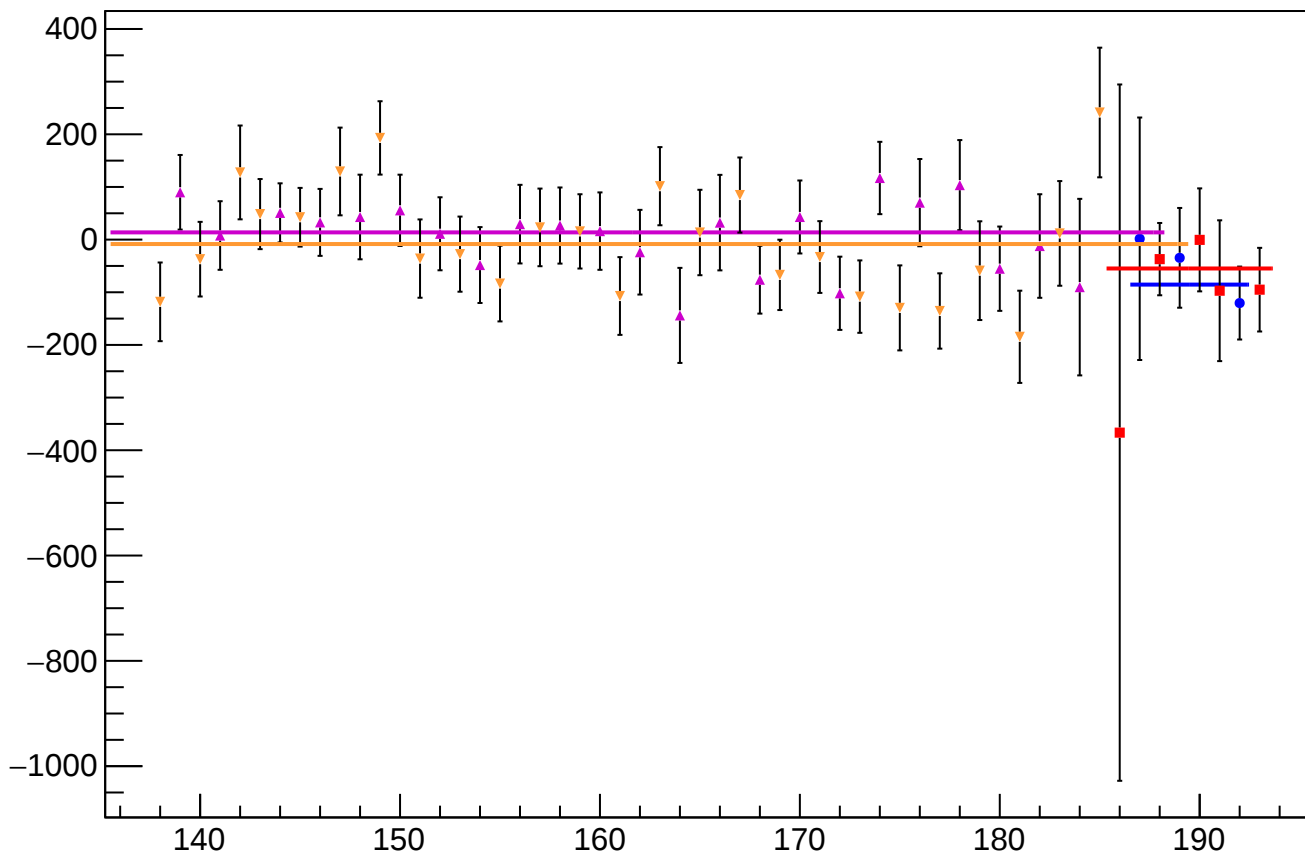
Right In: 1377.622 $\pm$ 0.803 χ^2/NDF : 13943.5/2

Left Out: 439.527 $\pm$ 0.074 χ^2/NDF : 1163352.8/24

Right Out: 1463.225 $\pm$ 0.660 χ^2/NDF : 210684.9/4

Left In: 438.548 $\pm$ 0.075 χ^2/NDF : 1013071.4/22

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -85.434 ± 54.332 χ^2/NDF : 0.7/2

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: -54.831 ± 43.295 χ^2/NDF : 1.0/4

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

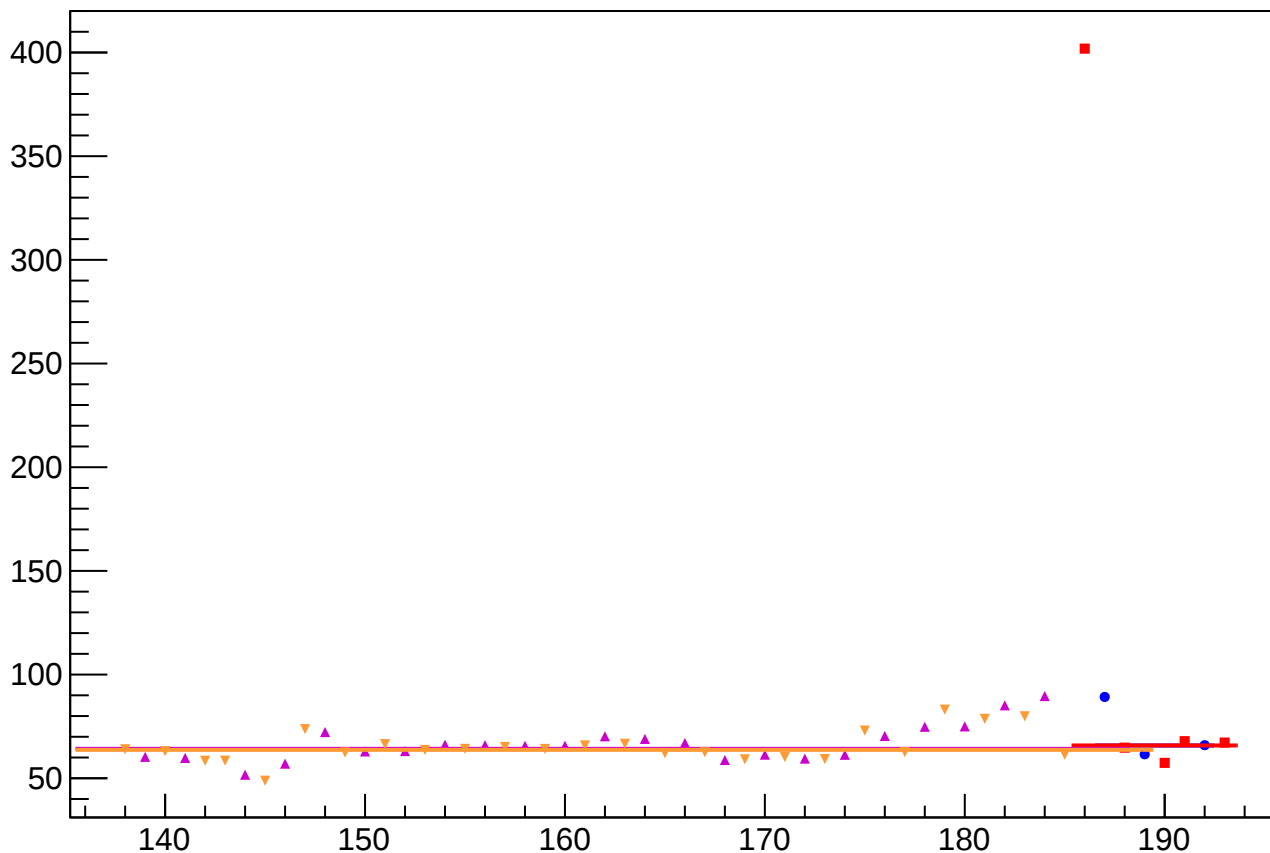
Right: -66.717 ± 33.860 χ^2/NDF : 1.8/7

In: 6.280 ± 14.886 χ^2/NDF : 20.0/25

Out: -13.352 ± 14.118 χ^2/NDF : 43.6/29

All: -4.055 ± 10.244 χ^2/NDF : 64.5/55

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 65.789 $\pm$ 0.038 χ^2 /NDF: 24723.9/2

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 65.817 $\pm$ 0.031 χ^2 /NDF: 532956.7/4

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

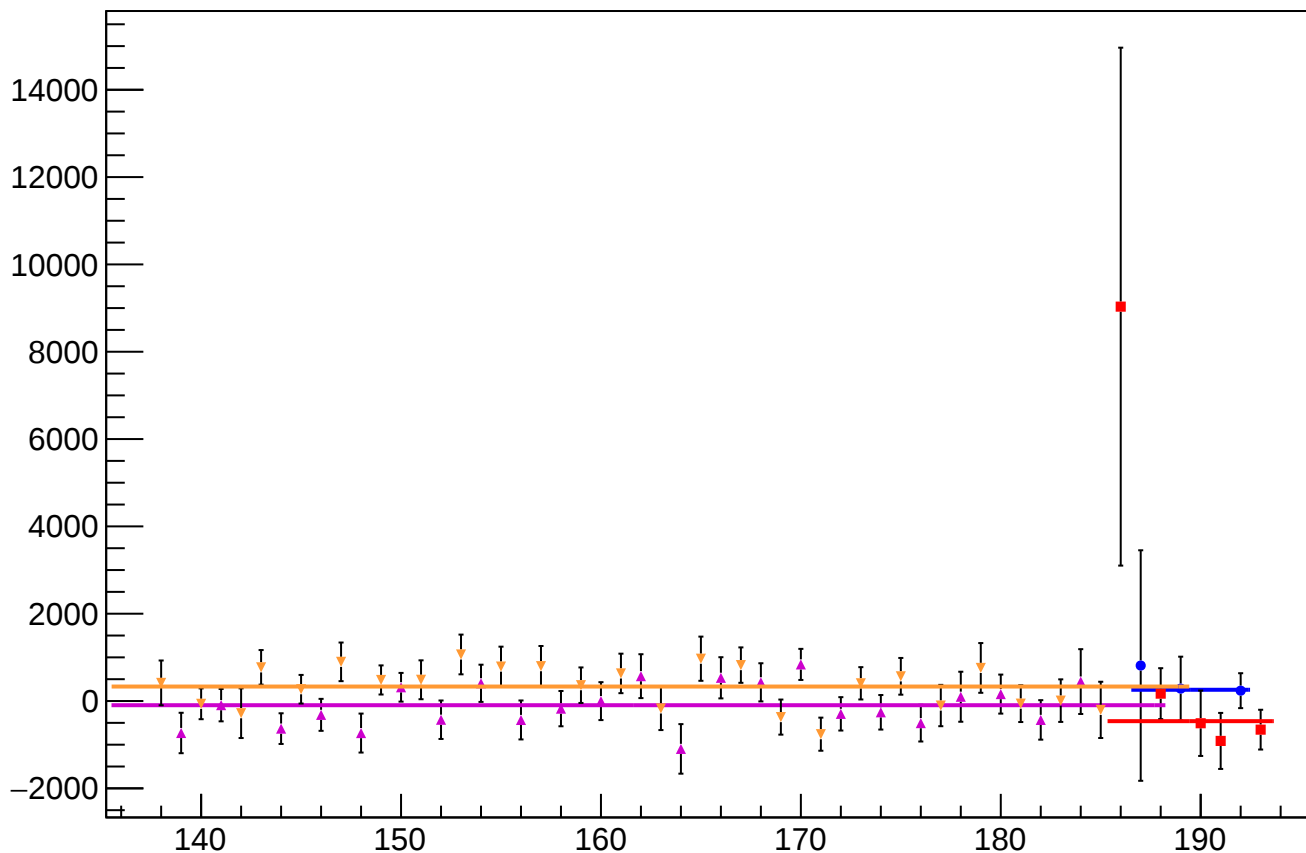
Right: 65.806 $\pm$ 0.024 χ^2 /NDF: 557680.9/7

In: 64.309 $\pm$ 0.011 χ^2 /NDF: 455999.1/25

Out: 63.922 $\pm$ 0.010 χ^2 /NDF: 985685.5/29

All: 64.105 $\pm$ 0.007 χ^2 /NDF: 1442398.9/55

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 257.655 ± 347.848 $\chi^2/NDF: 0.0/2$

Left Out: 331.739 ± 86.071 $\chi^2/NDF: 29.9/24$

Right Out: -461.176 ± 288.682 $\chi^2/NDF: 4.4/4$

Left In: -95.910 ± 88.656 $\chi^2/NDF: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/NDF: 70.5/47$

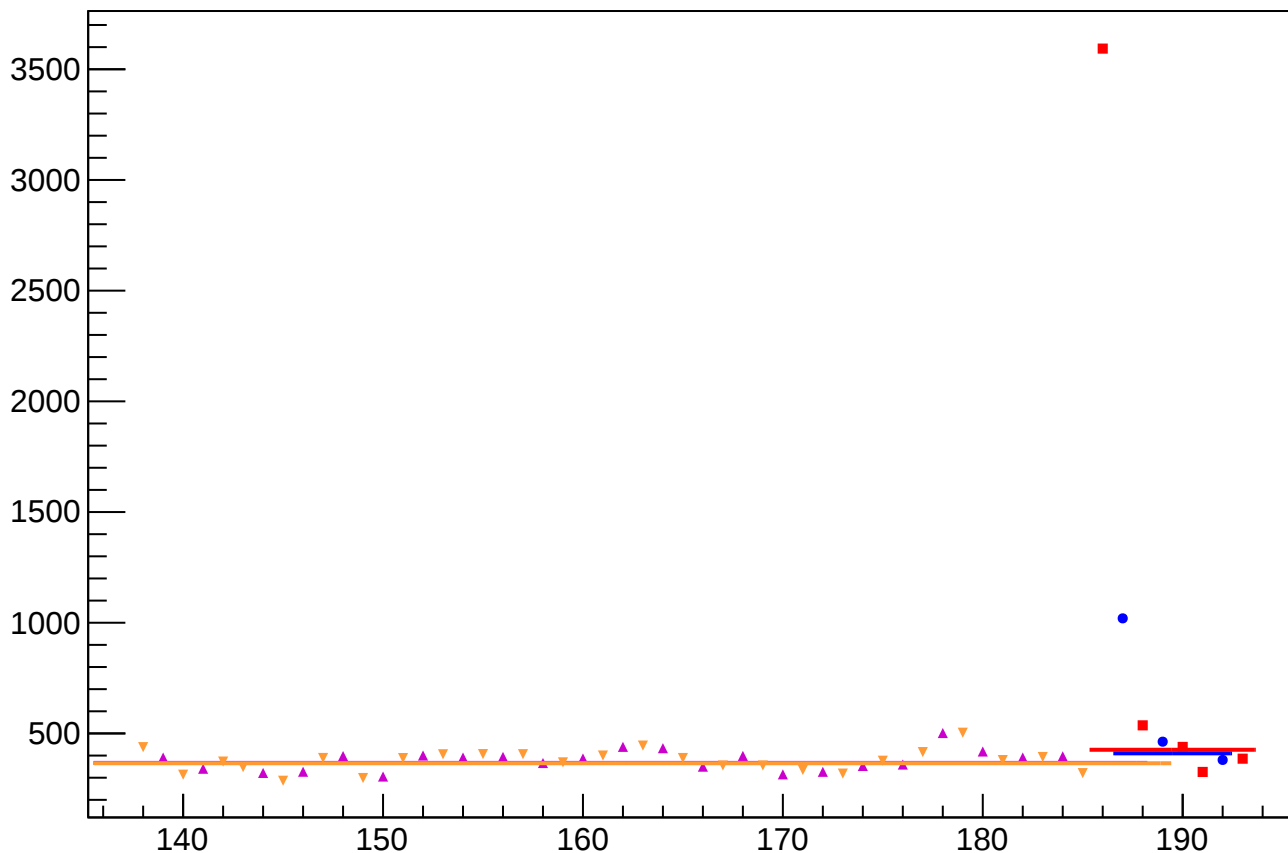
Right: -168.005 ± 222.145 $\chi^2/NDF: 7.0/7$

In: -74.344 ± 85.910 $\chi^2/NDF: 29.7/25$

Out: 267.007 ± 82.483 $\chi^2/NDF: 41.2/29$

All: 103.275 ± 59.499 $\chi^2/NDF: 79.1/55$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 410.039 $\pm$ 0.246 χ^2 /NDF: 128149.8/2

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 426.241 $\pm$ 0.204 χ^2 /NDF: 706699.5/4

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

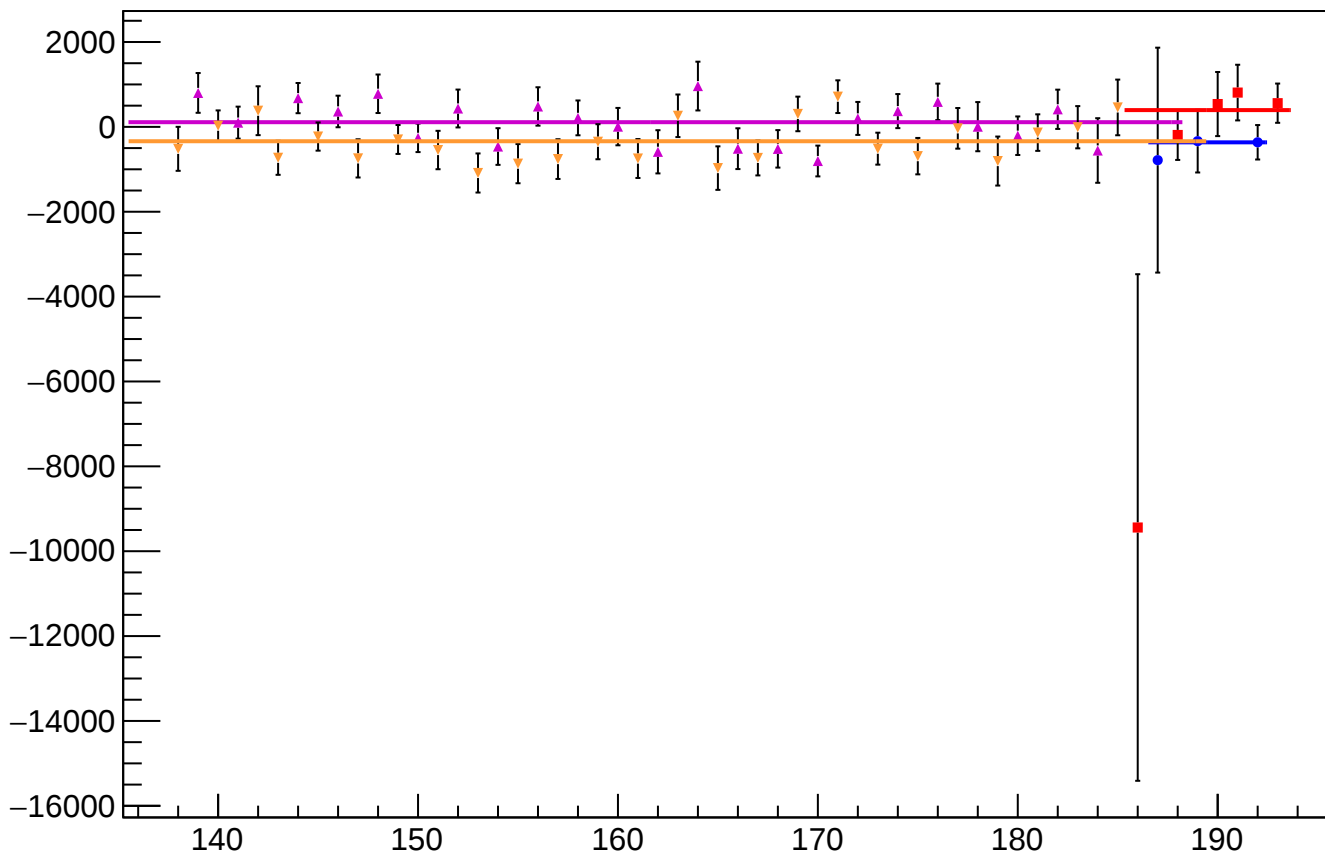
Right: 419.633 $\pm$ 0.157 χ^2 /NDF: 837418.7/7

In: 369.554 $\pm$ 0.061 χ^2 /NDF: 635083.0/25

Out: 370.326 $\pm$ 0.058 χ^2 /NDF: 1406856.7/29

All: 369.956 $\pm$ 0.042 χ^2 /NDF: 2042023.6/55

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -364.576+/-352.576 χ^2/NDF : 0.0/2

Left Out: -338.528+/-87.450 χ^2/NDF :28.2/24

Right Out: 395.141+/-292.678 χ^2/NDF : 4.3/4

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

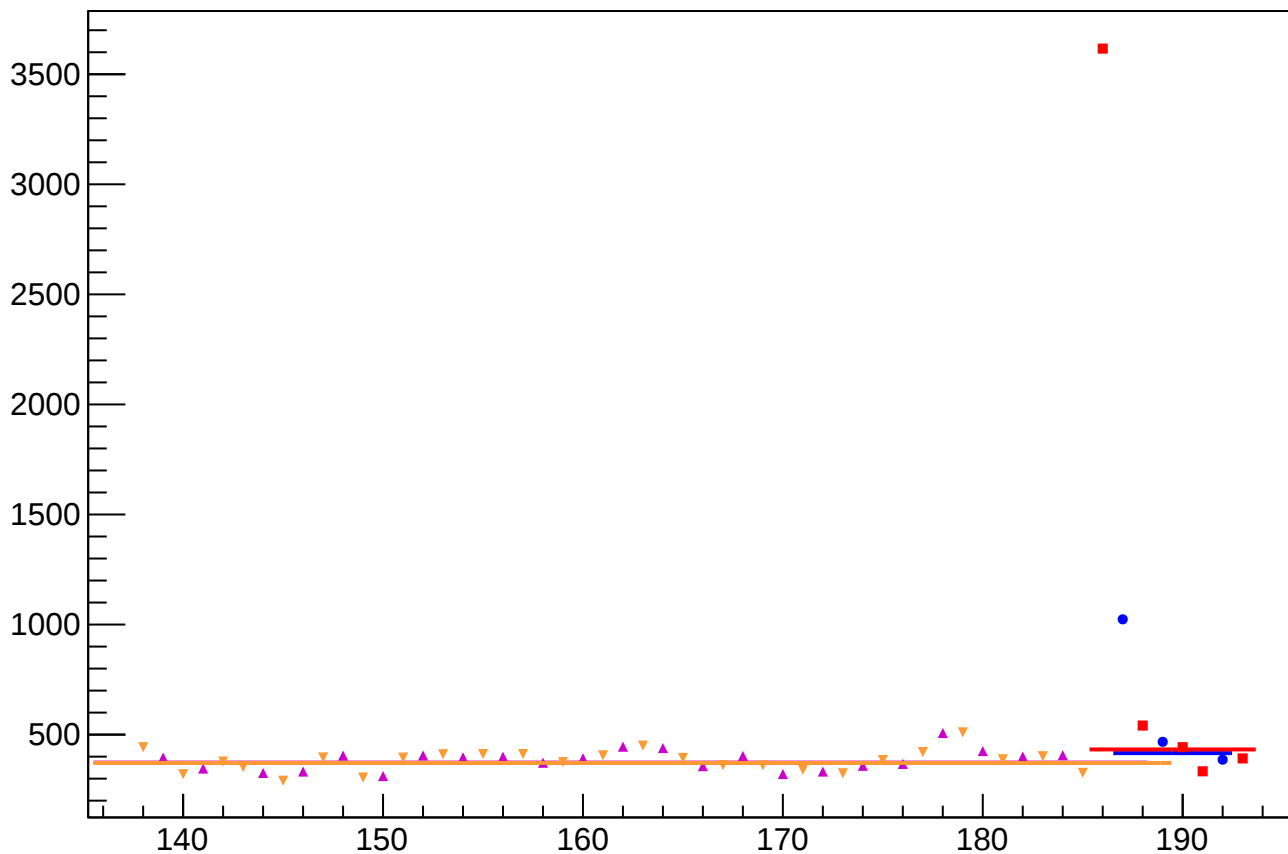
Right: 85.204+/-225.198 χ^2/NDF : 7.0/7

In: 81.237+/-87.280 χ^2/NDF :31.0/25

Out: -278.396+/-83.790 χ^2/NDF :38.2/29

All: -105.913+/-60.445 χ^2/NDF : 78.0/55

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 415.878 $\pm$ 0.249 χ^2 /NDF: 125694.7/2

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 432.643 $\pm$ 0.207 χ^2 /NDF: 698991.5/4

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

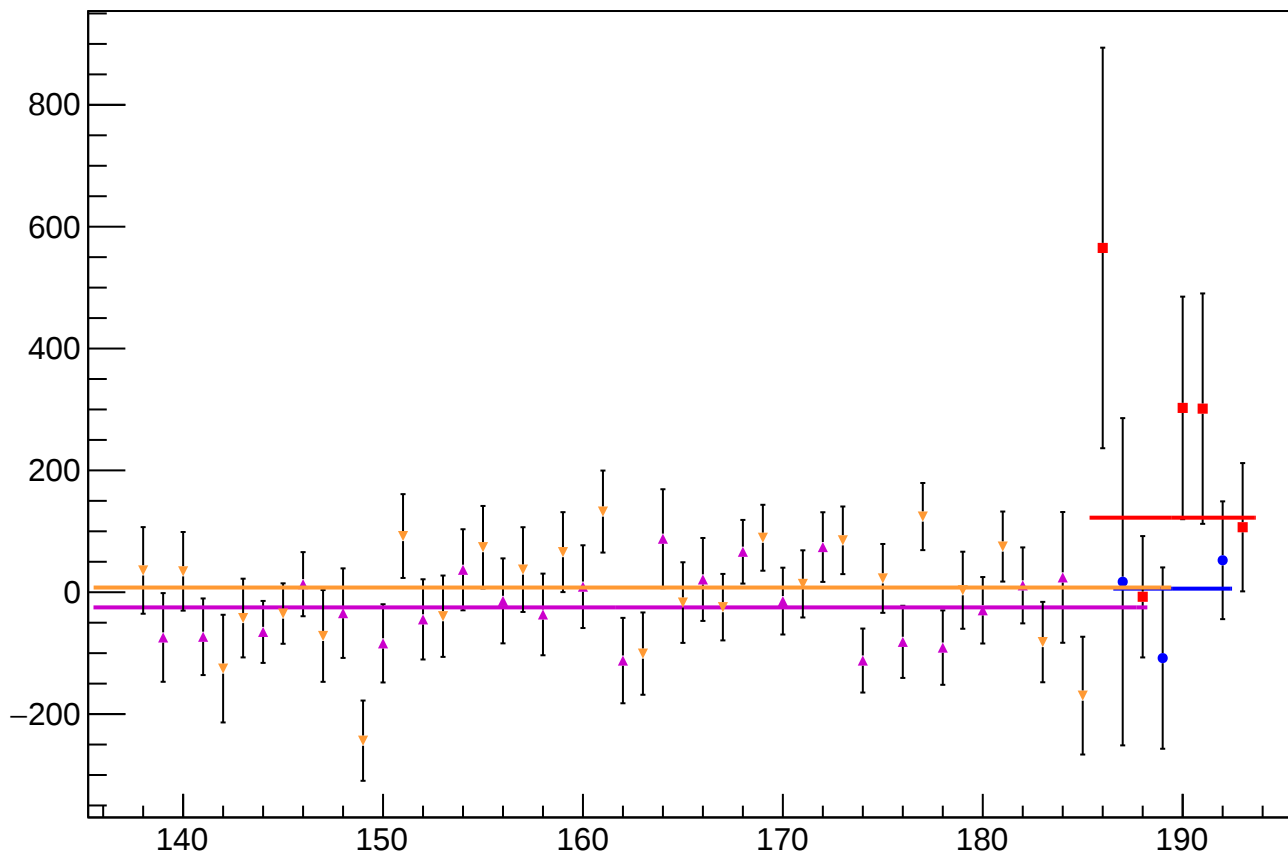
Right: 425.803 $\pm$ 0.159 χ^2 /NDF: 827363.2/7

In: 375.569 $\pm$ 0.062 χ^2 /NDF: 620883.6/25

Out: 376.379 $\pm$ 0.059 χ^2 /NDF: 1383571.3/29

All: 375.991 $\pm$ 0.043 χ^2 /NDF: 2004544.5/55

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 5.879 ± 77.611 $\chi^2/\text{NDF}: 0.8/2$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 122.374 ± 62.228 $\chi^2/\text{NDF}: 5.4/4$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

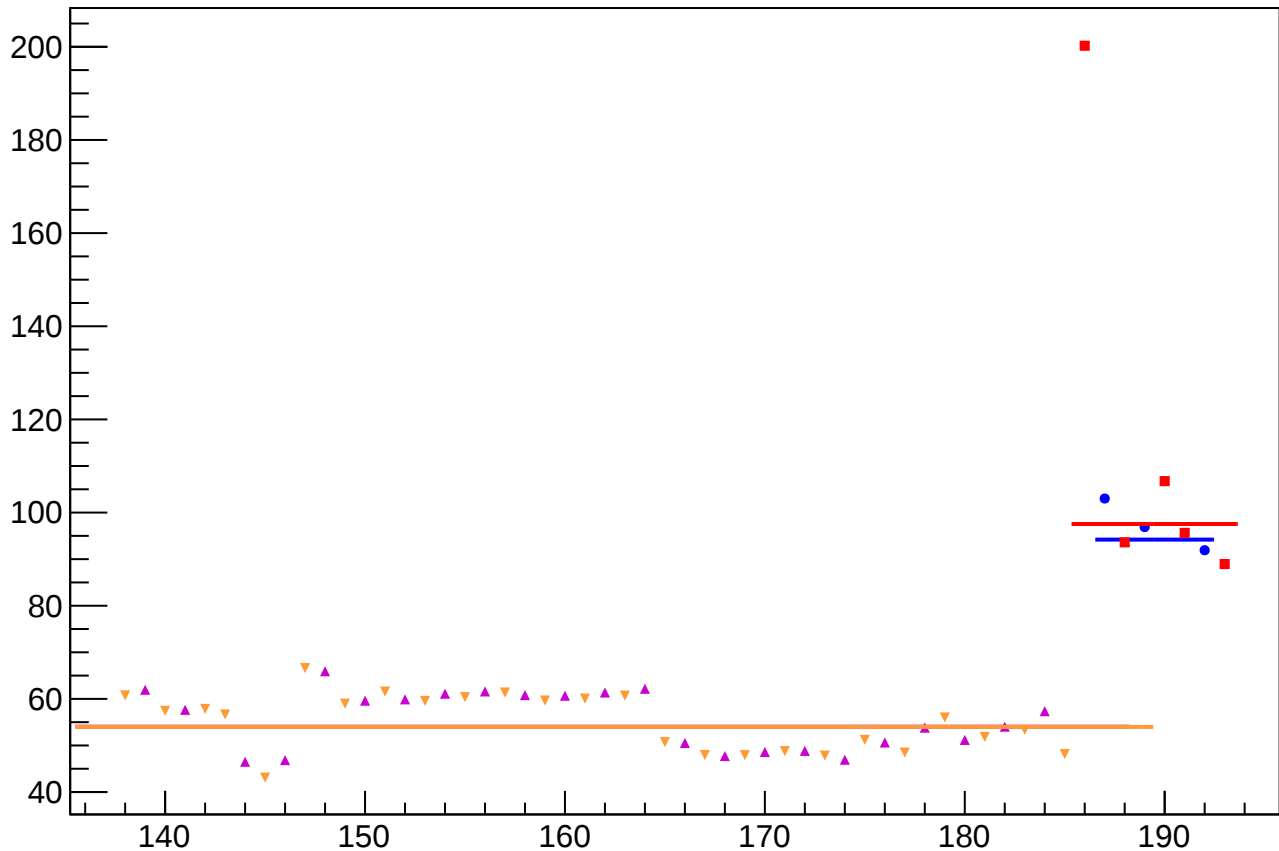
Right: 76.789 ± 48.549 $\chi^2/\text{NDF}: 7.6/7$

In: -24.044 ± 12.849 $\chi^2/\text{NDF}: 20.7/25$

Out: 12.277 ± 12.402 $\chi^2/\text{NDF}: 54.1/29$

All: -5.240 ± 8.923 $\chi^2/\text{NDF}: 78.9/55$

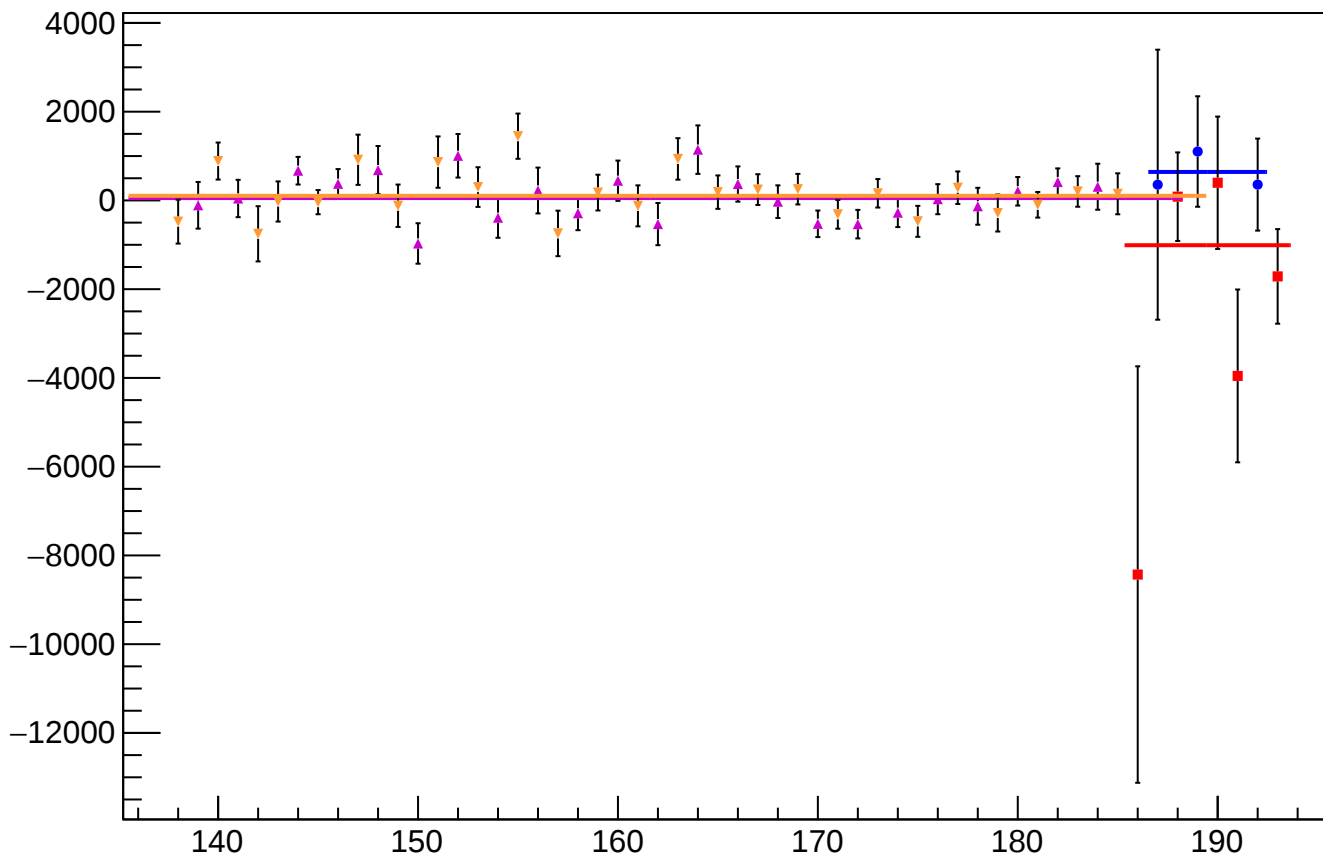
reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 94.198 $\pm$ 0.055 χ^2 /NDF: 3922.3/2
 Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF:458972.1/24
 Right Out: 97.550 $\pm$ 0.044 χ^2 /NDF: 216847.2/4
 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: 96.239 $\pm$ 0.034 χ^2 /NDF: 223040.7/7
 In: 55.129 $\pm$ 0.009 χ^2 /NDF:968851.8/25
 Out: 55.714 $\pm$ 0.009 χ^2 /NDF:1617201.6/29
 All: 55.432 $\pm$ 0.006 χ^2 /NDF: 2588202.6/55

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 642.125+/-770.747 χ^2/NDF : 0.2/2

Left Out: 103.768+/-79.344 χ^2/NDF :31.0/24

Right Out: -1009.370+/-615.038 χ^2/NDF : 7.3/4

Left In: 53.493+/-81.201 χ^2/NDF :34.1/22

Left: 79.212+/-56.750 χ^2/NDF : 65.3/47

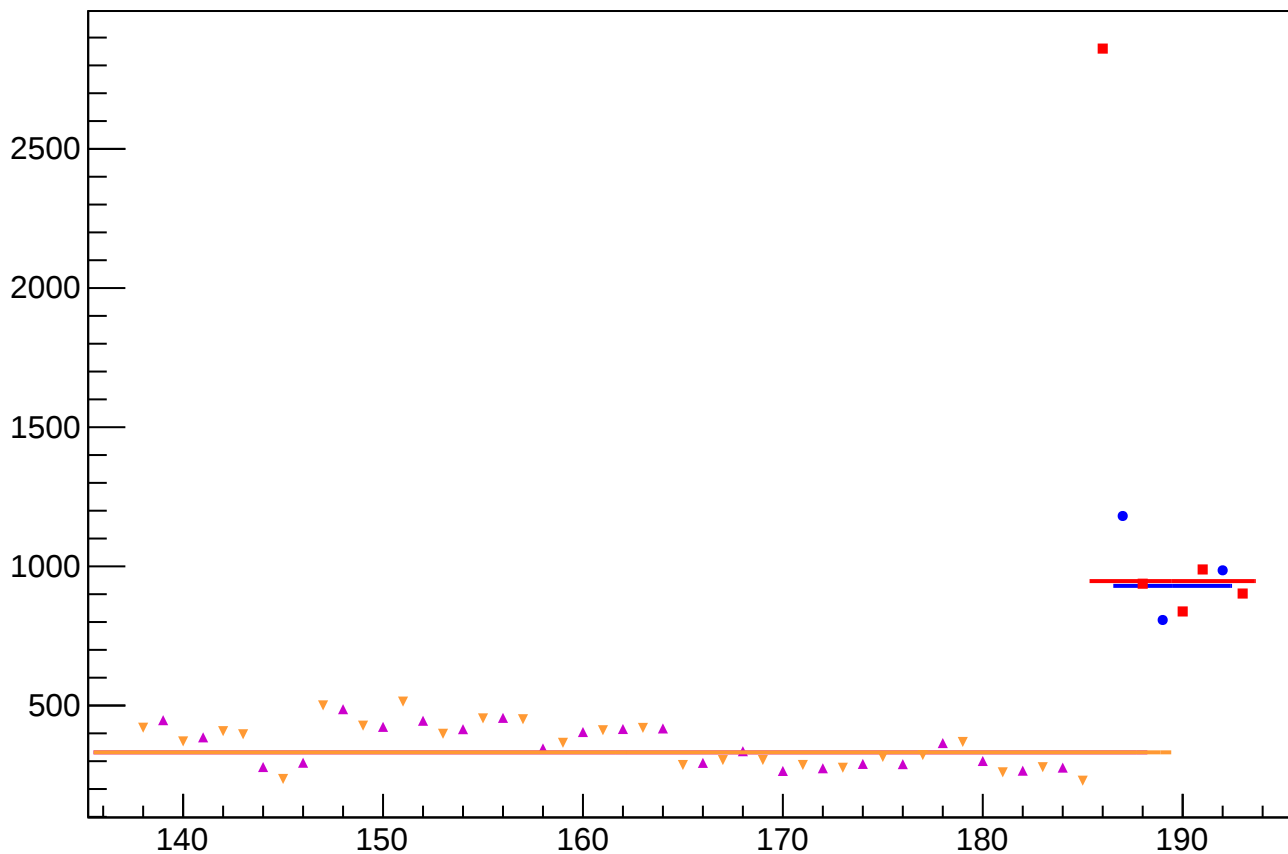
Right: -366.873+/-480.738 χ^2/NDF : 10.3/7

In: 59.955+/-80.754 χ^2/NDF :34.9/25

Out: 85.545+/-78.692 χ^2/NDF :41.5/29

All: 73.081+/-56.359 χ^2/NDF : 76.5/55

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 929.945 $\pm$ 0.545 χ^2 /NDF: 38807.3/2

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF: 1711721.9/24

Right Out: 947.098 $\pm$ 0.435 χ^2 /NDF: 347782.0/4

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

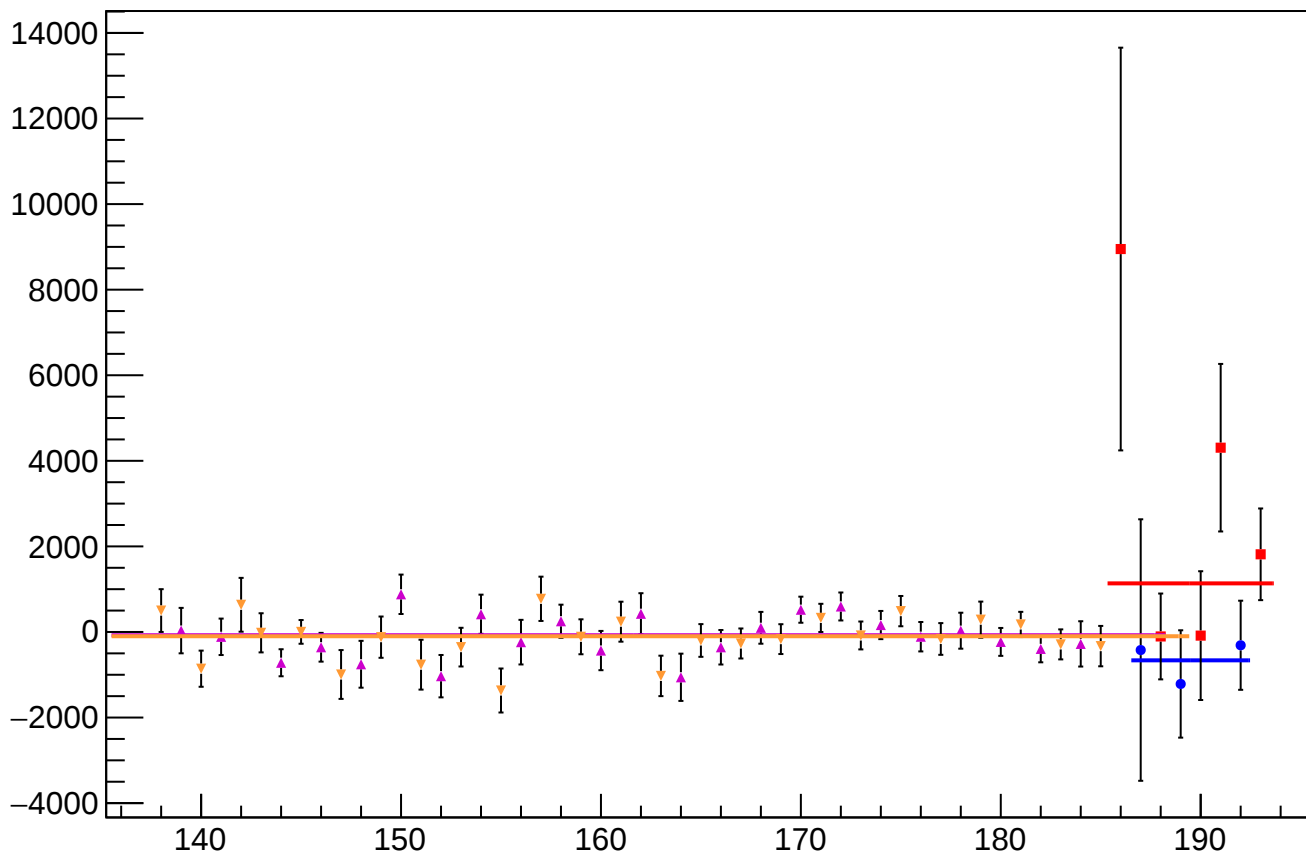
Right: 940.425 $\pm$ 0.340 χ^2 /NDF: 387194.5/7

In: 338.233 $\pm$ 0.057 χ^2 /NDF: 2533848.2/25

Out: 341.843 $\pm$ 0.056 χ^2 /NDF: 4028613.5/29

All: 340.085 $\pm$ 0.040 χ^2 /NDF: 6564511.9/55

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -662.958+/-775.044 χ^2/NDF : 0.3/2

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 1135.758+/-618.628 χ^2/NDF : 8.0/4

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

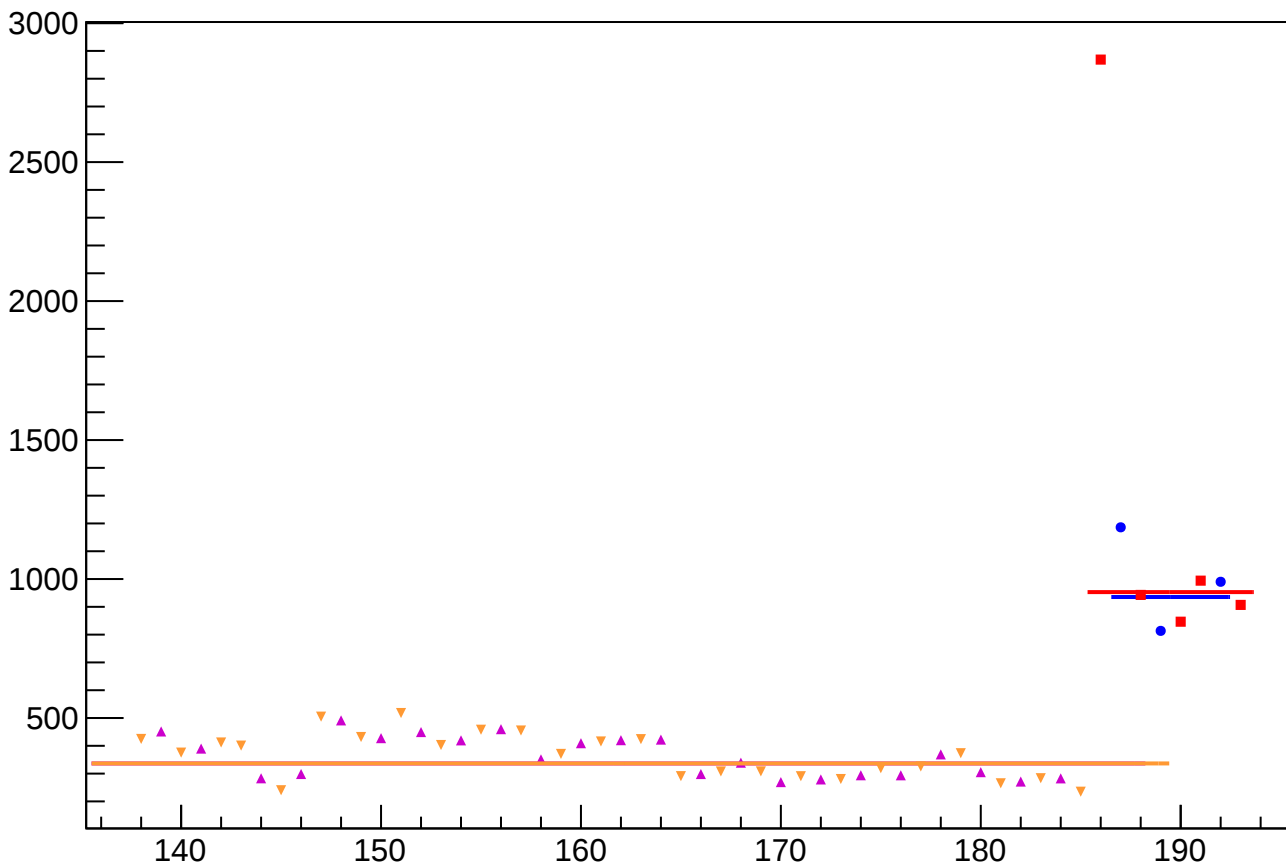
Right: 435.764+/-483.495 χ^2/NDF : 11.6/7

In: -82.131+/-81.858 χ^2/NDF : 33.0/25

Out: -79.248+/-79.757 χ^2/NDF : 42.6/29

All: -80.652+/-57.125 χ^2/NDF : 75.5/55

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 935.316+/-0.548 χ^2/NDF : 37851.4/2

Left Out: 336.557+/-0.057 χ^2/NDF :1665919.4/24

Right Out: 952.989+/-0.437 χ^2/NDF : 346226.7/4

Left In: 336.439+/-0.058 χ^2/NDF :1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

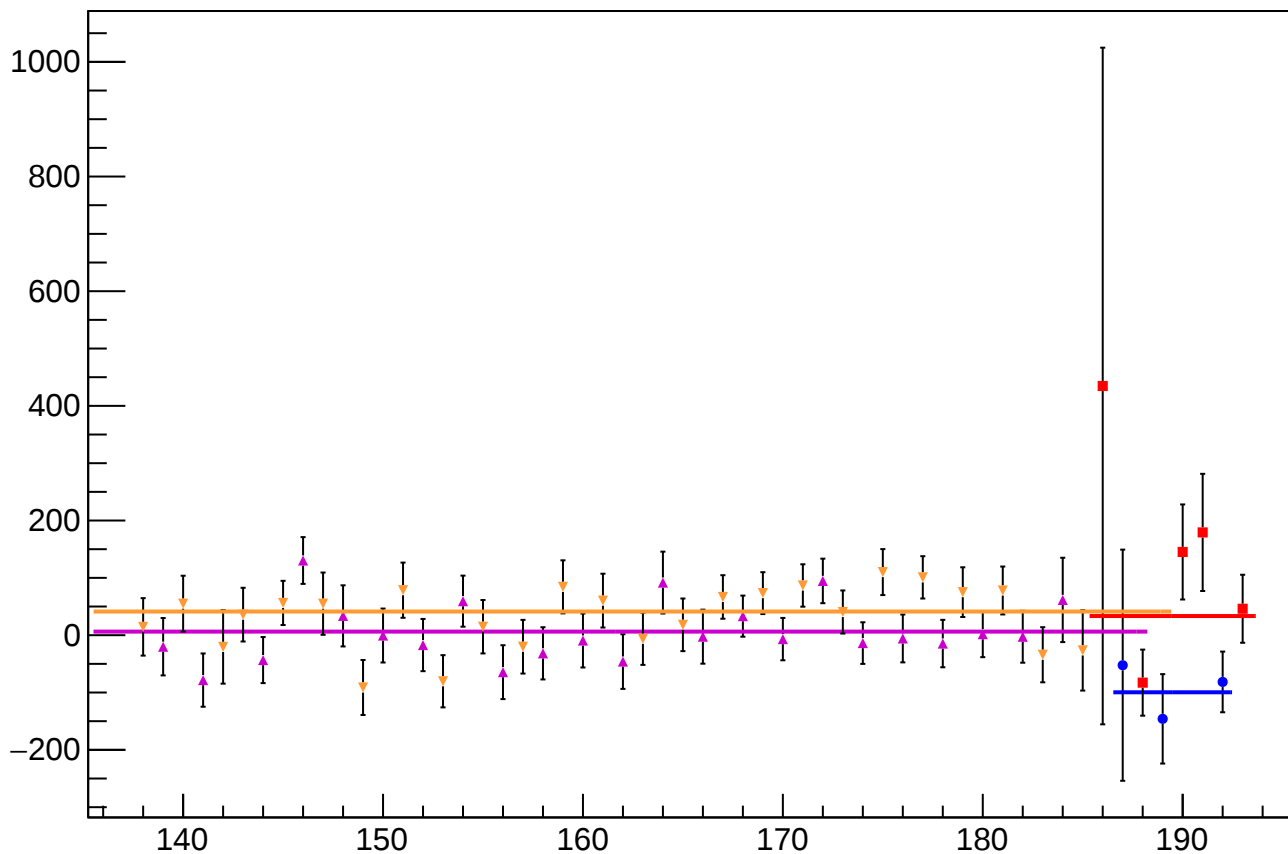
Right: 946.111+/-0.342 χ^2/NDF : 384713.4/7

In: 343.120+/-0.058 χ^2/NDF :2487725.5/25

Out: 346.804+/-0.056 χ^2/NDF :3964961.6/29

All: 345.010+/-0.040 χ^2/NDF : 6454764.8/55

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -99.596 ± 42.786 χ^2/NDF : 0.5/2

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 33.406 ± 34.716 χ^2/NDF : 8.4/4

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

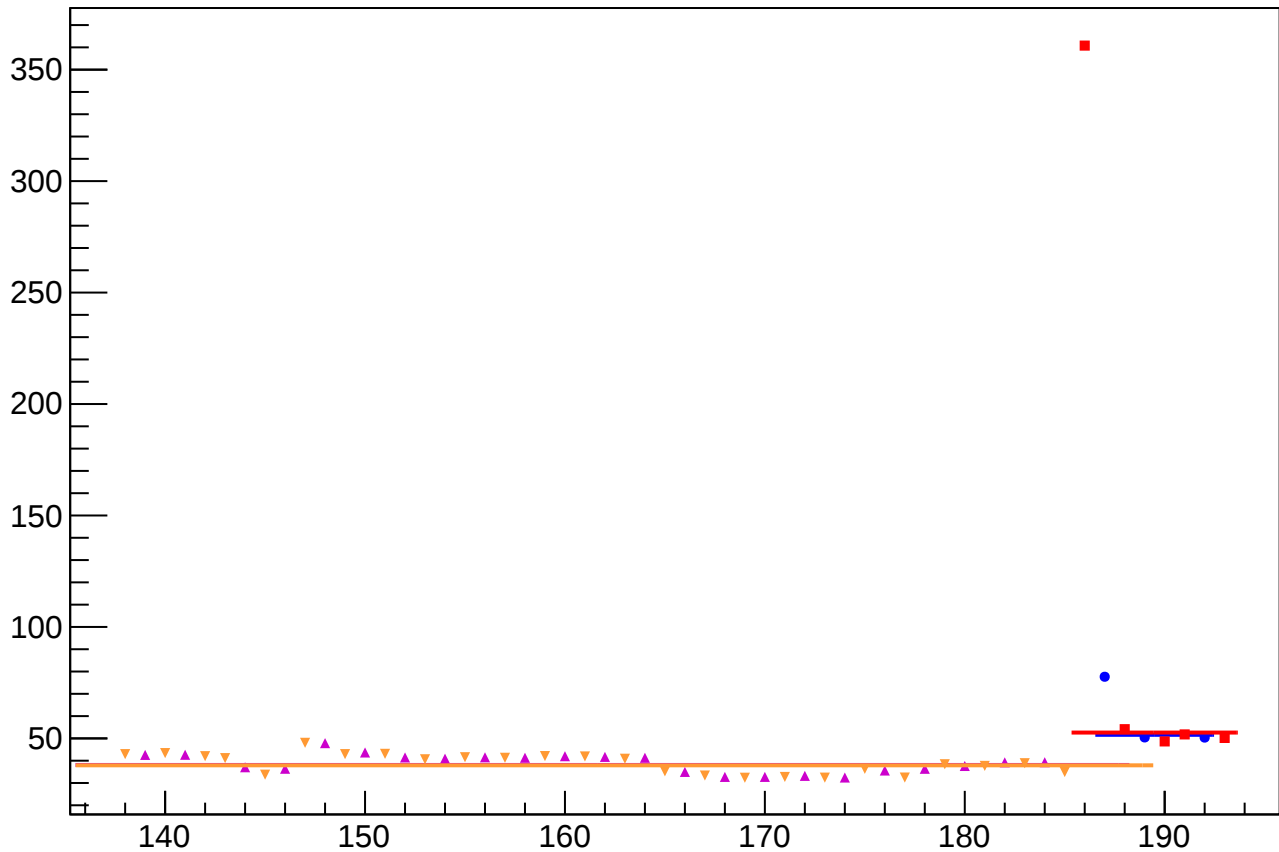
Right: -19.394 ± 26.958 χ^2/NDF : 14.8/7

In: 1.601 ± 8.971 χ^2/NDF : 36.7/25

Out: 40.799 ± 8.611 χ^2/NDF : 42.8/29

All: 22.000 ± 6.212 χ^2/NDF : 89.4/55

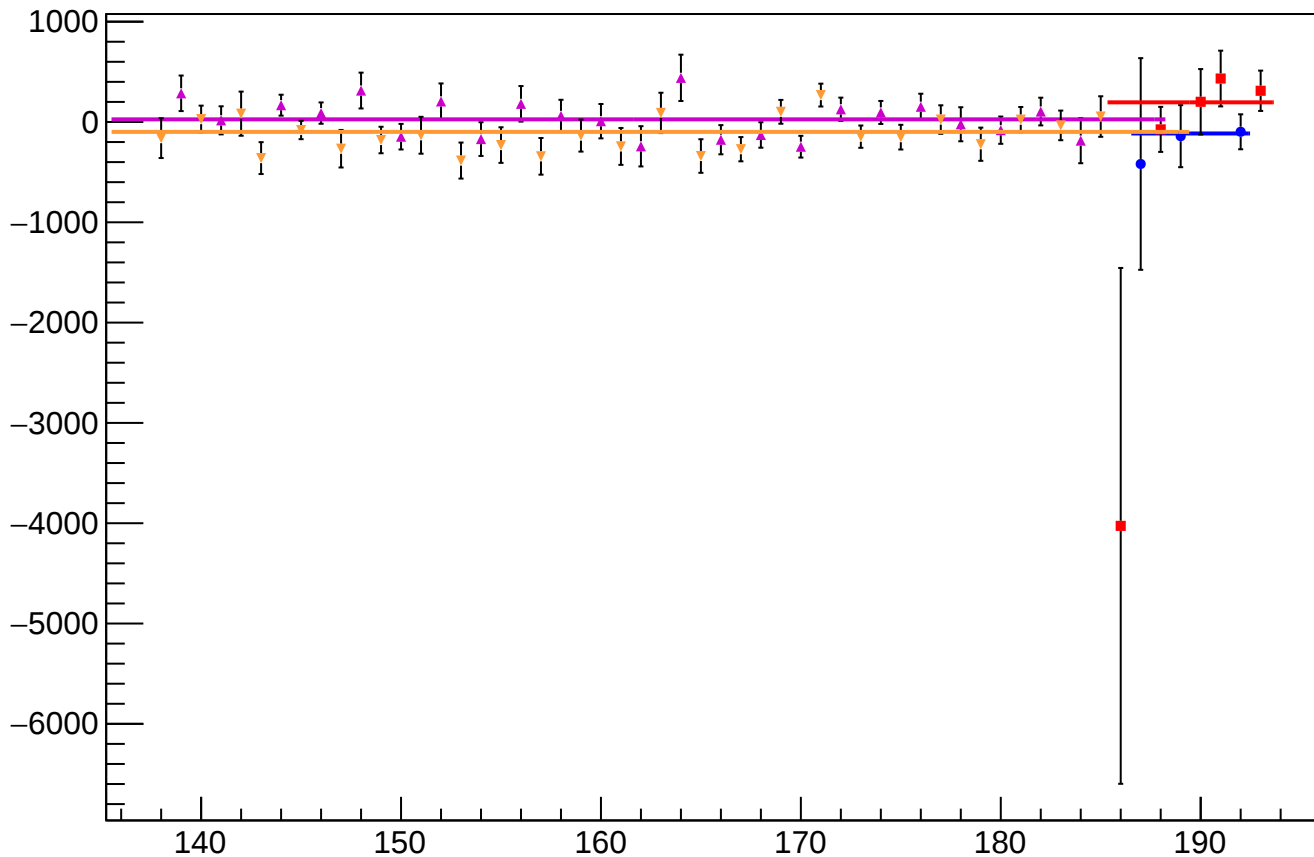
reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 51.615 $\pm$ 0.030 χ^2 /NDF: 34947.7/2
 Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24
 Right Out: 52.619 $\pm$ 0.025 χ^2 /NDF: 554834.3/4
 Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47
 Right: 52.220 $\pm$ 0.019 χ^2 /NDF: 590446.3/7
 In: 38.682 $\pm$ 0.006 χ^2 /NDF: 622423.1/25
 Out: 38.829 $\pm$ 0.006 χ^2 /NDF: 1378182.9/29
 All: 38.759 $\pm$ 0.004 χ^2 /NDF: 2000886.4/55

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -114.598+/-150.291 χ^2/NDF : 0.1/2

Left Out: -98.741+/-29.095 χ^2/NDF : 32.7/24

Right Out: 195.816+/-122.074 χ^2/NDF : 5.2/4

Left In: 26.223+/-29.676 χ^2/NDF : 30.7/22

Left: -37.493+/-20.776 χ^2/NDF : 72.5/47

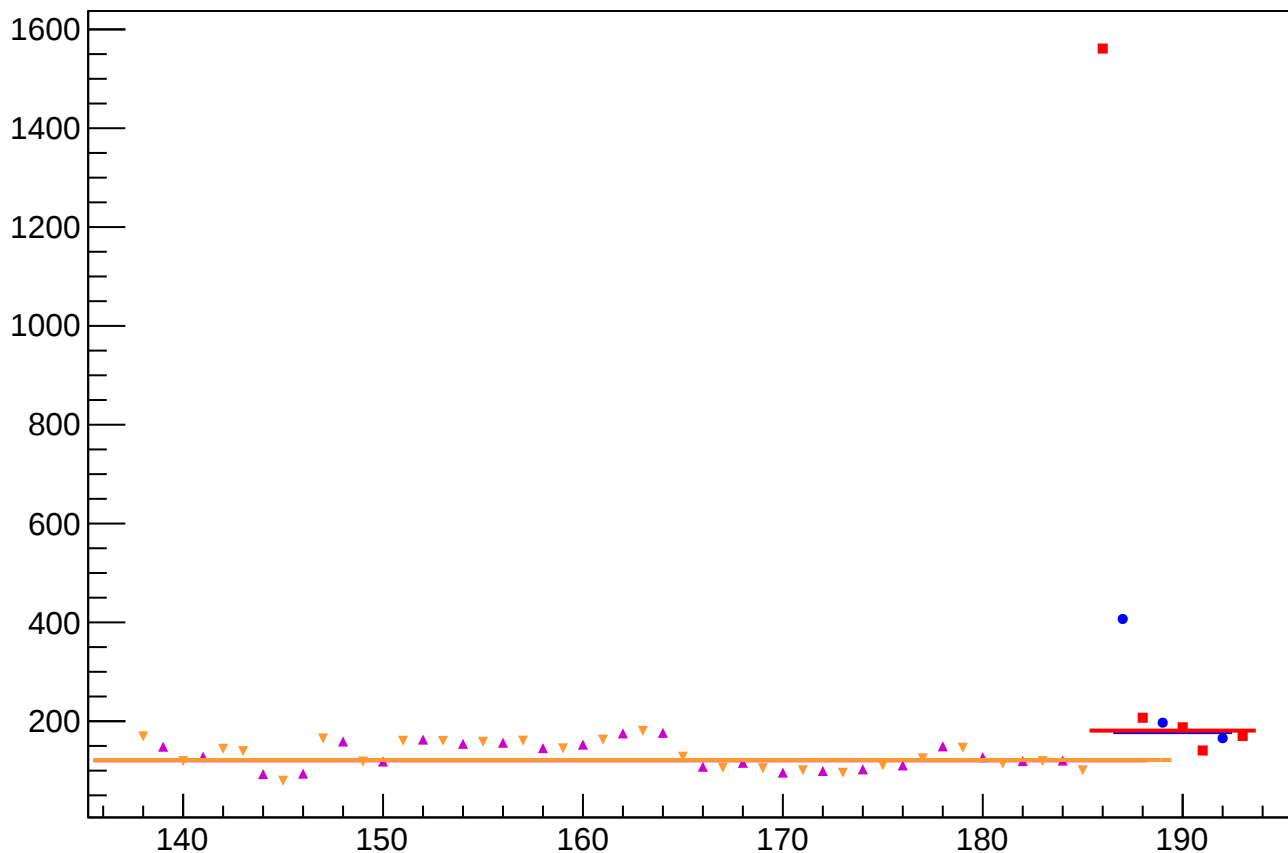
Right: 72.427+/-94.755 χ^2/NDF : 7.9/7

In: 20.938+/-29.113 χ^2/NDF : 31.6/25

Out: -82.907+/-28.302 χ^2/NDF : 43.5/29

All: -32.451+/-20.294 χ^2/NDF : 81.6/55

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 177.930 $\pm$ 0.106 χ^2 /NDF: 111853.1/2

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 180.992 $\pm$ 0.086 χ^2 /NDF: 651686.1/4

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

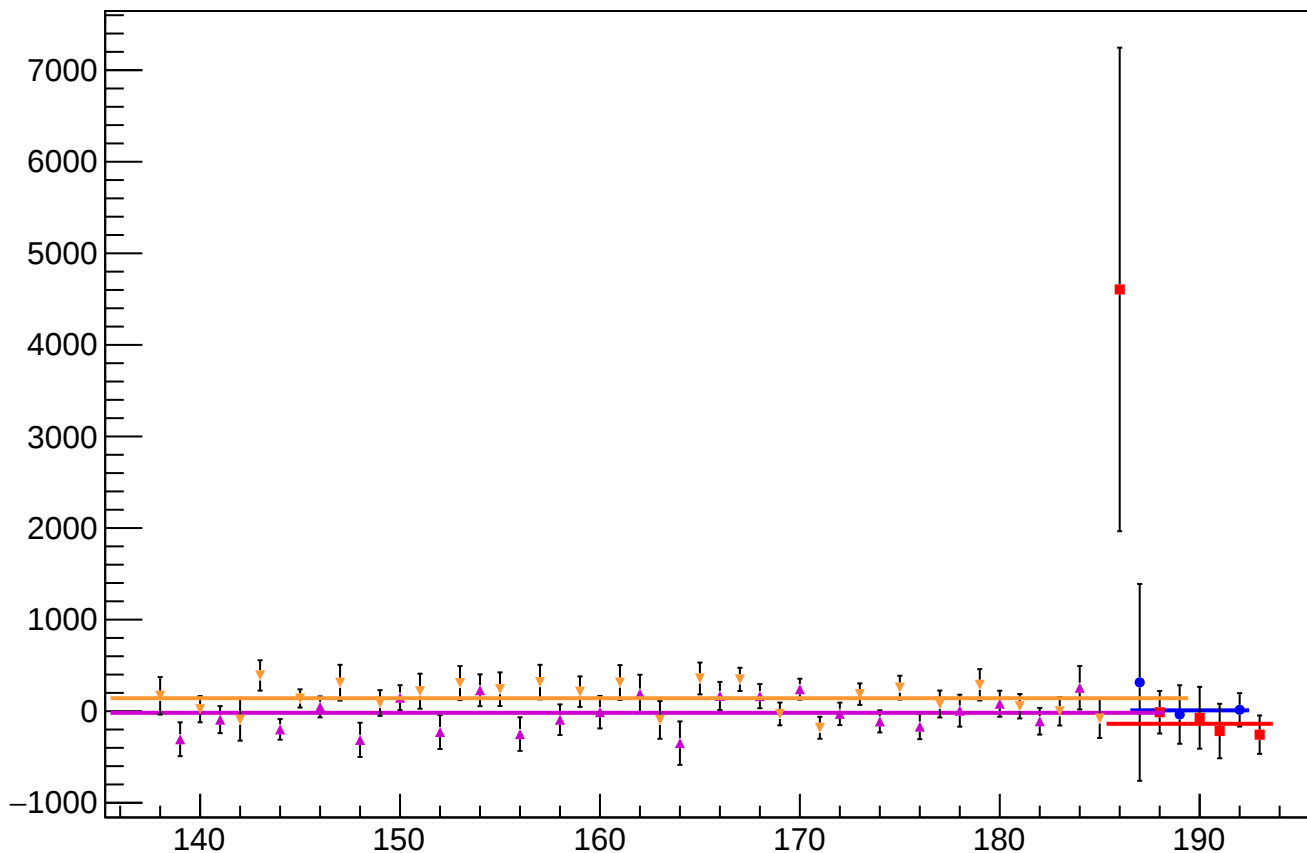
Right: 179.775 $\pm$ 0.067 χ^2 /NDF: 764039.3/7

In: 123.066 $\pm$ 0.021 χ^2 /NDF:1771636.9/25

Out: 124.785 $\pm$ 0.020 χ^2 /NDF:2811202.2/29

All: 123.950 $\pm$ 0.014 χ^2 /NDF: 4586423.9/55

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 9.231 ± 156.643 χ^2/NDF : 0.1/2

Left Out: 142.014 ± 30.574 χ^2/NDF : 26.9/24

Right Out: -137.390 ± 127.553 χ^2/NDF : 3.9/4

Left In: -17.679 ± 31.209 χ^2/NDF : 30.1/22

Left: 63.807 ± 21.840 χ^2/NDF : 70.4/47

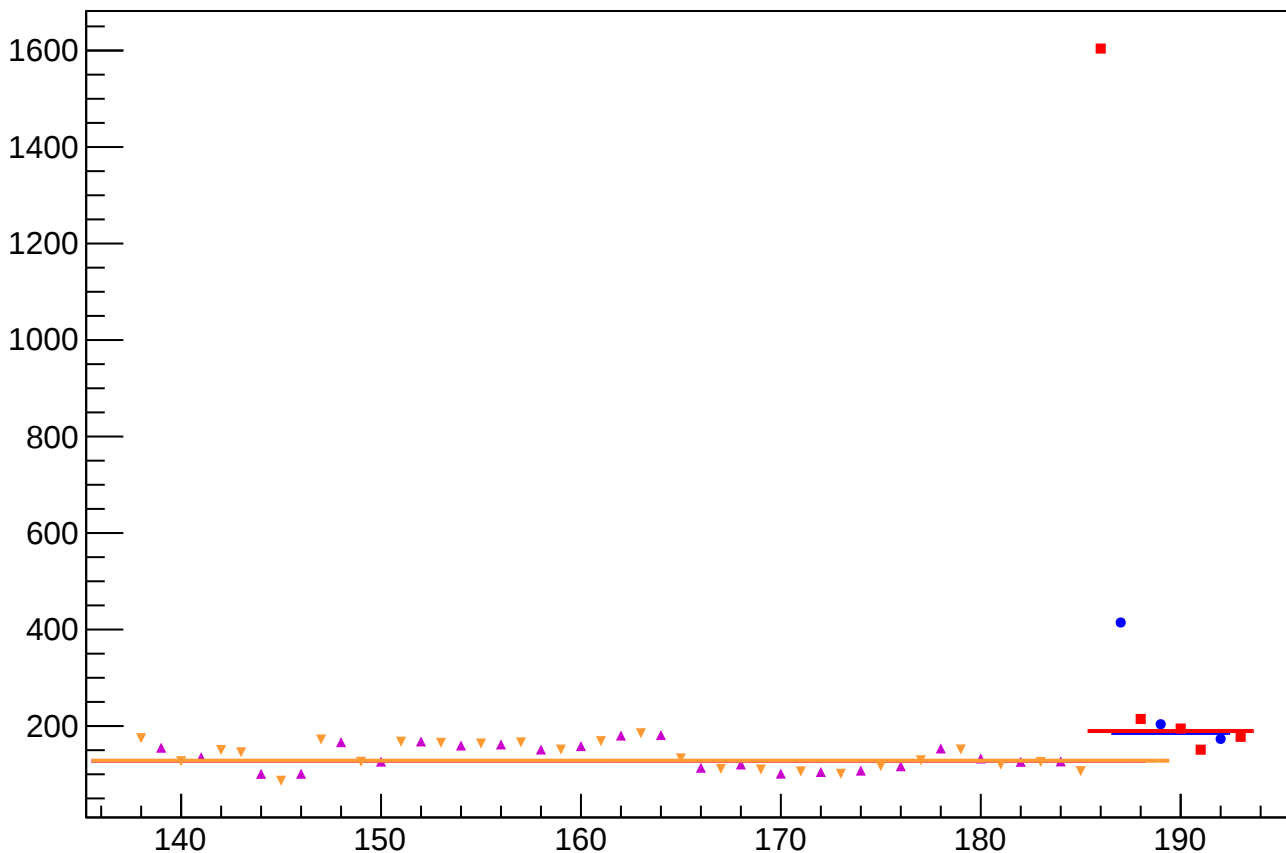
Right: -78.932 ± 98.909 χ^2/NDF : 4.6/7

In: -16.652 ± 30.607 χ^2/NDF : 30.3/25

Out: 126.833 ± 29.732 χ^2/NDF : 35.4/29

All: 57.171 ± 21.326 χ^2/NDF : 76.9/55

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 185.733 $\pm$ 0.111 χ^2 /NDF: 106352.0/2

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 189.673 $\pm$ 0.090 χ^2 /NDF: 637846.0/4

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

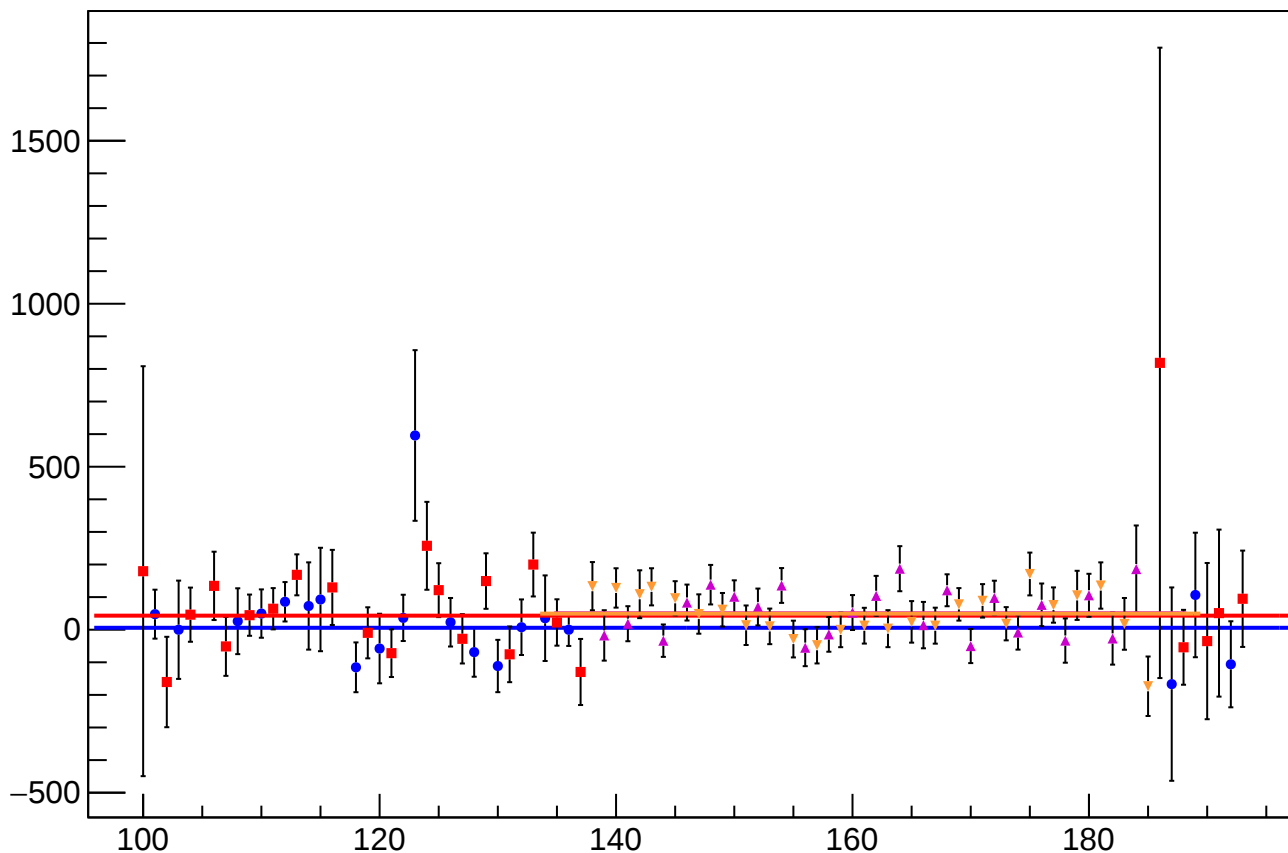
Right: 188.102 $\pm$ 0.070 χ^2 /NDF: 744958.6/7

In: 129.765 $\pm$ 0.022 χ^2 /NDF:1607514.1/25

Out: 131.517 $\pm$ 0.021 χ^2 /NDF:2610411.4/29

All: 130.666 $\pm$ 0.015 χ^2 /NDF: 4221293.9/55

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 5.883 $\pm$ 19.801 χ^2 /NDF: 15.7/19

Left Out: 49.402 $\pm$ 11.806 χ^2 /NDF:28.1/24

Right Out: 43.097 $\pm$ 18.911 χ^2 /NDF: 26.6/23

Left In: 50.331 $\pm$ 12.253 χ^2 /NDF:32.2/22

Left: 49.849 $\pm$ 8.502 χ^2 /NDF: 60.3/47

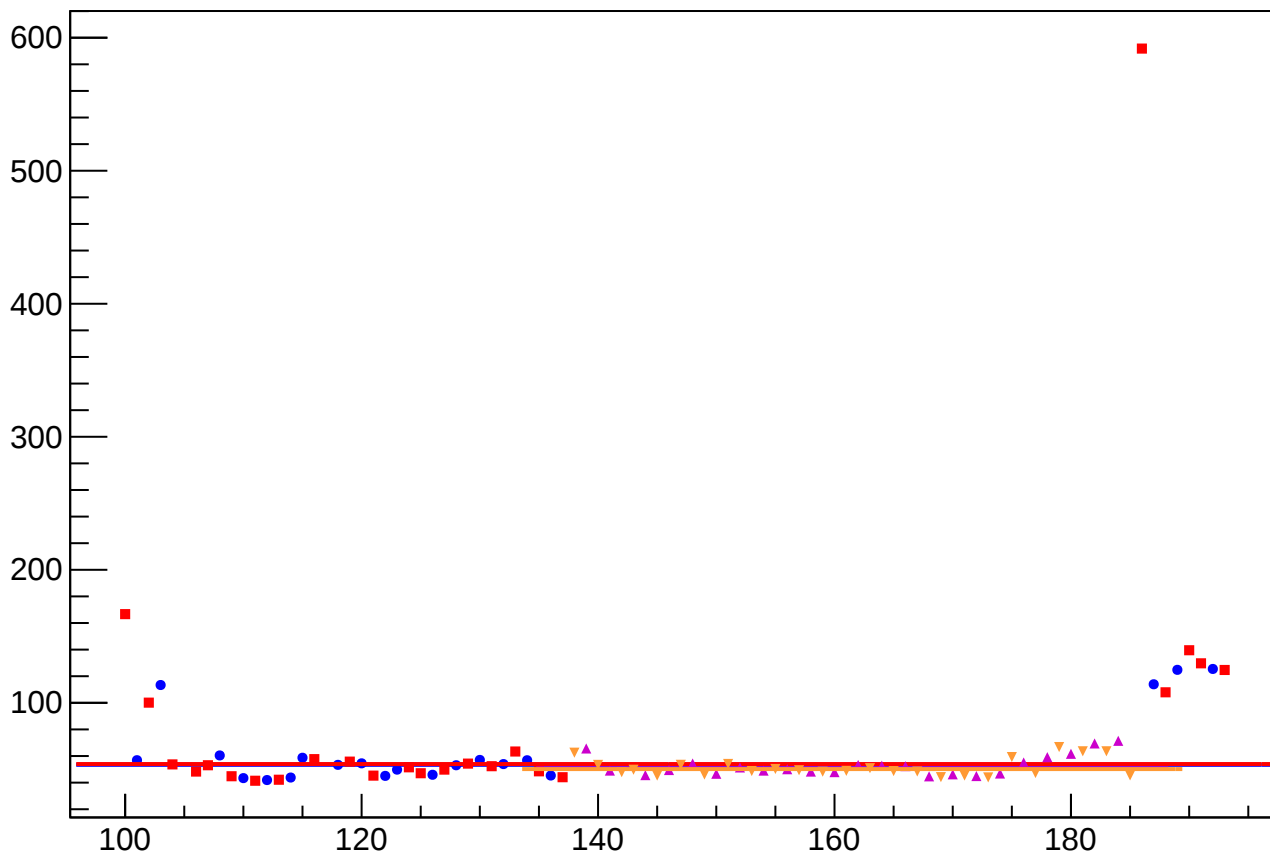
Right: 25.345 $\pm$ 13.676 χ^2 /NDF: 44.1/43

In: 38.023 $\pm$ 10.420 χ^2 /NDF:51.5/42

Out: 47.634 $\pm$ 10.014 χ^2 /NDF:54.7/48

All: 43.019 $\pm$ 7.220 χ^2 /NDF: 106.7/91

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 53.400 $\pm$ 0.014 χ^2 /NDF: 1516607.5/19

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 53.971 $\pm$ 0.013 χ^2 /NDF: 2532632.8/23

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

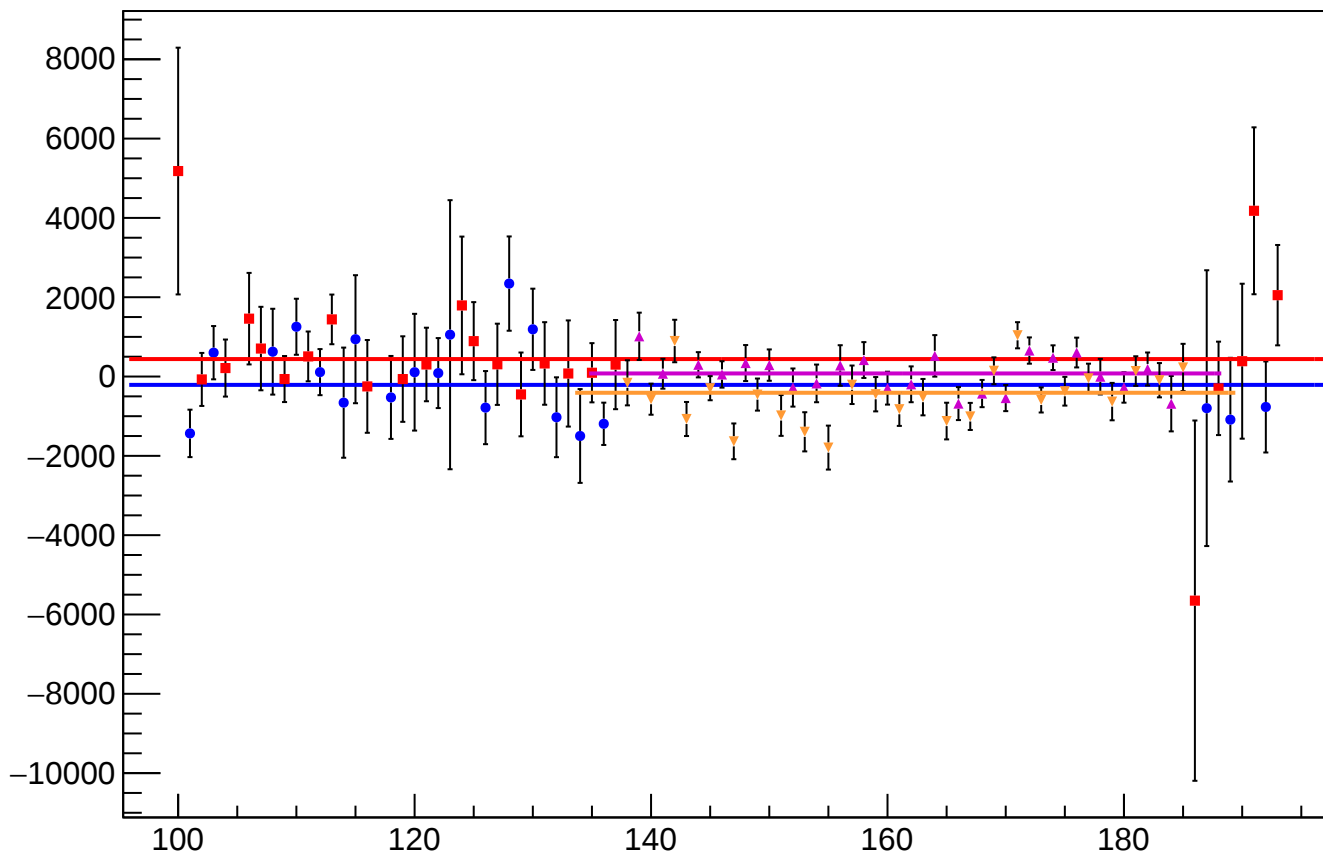
Right: 53.699 $\pm$ 0.010 χ^2 /NDF: 4050107.7/43

In: 51.435 $\pm$ 0.007 χ^2 /NDF: 2013133.6/42

Out: 51.250 $\pm$ 0.007 χ^2 /NDF: 3057846.4/48

All: 51.339 $\pm$ 0.005 χ^2 /NDF: 5071310.3/91

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -210.292 ± 205.048 χ^2/NDF : 24.5/19

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 440.615 ± 196.491 χ^2/NDF : 16.6/23

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

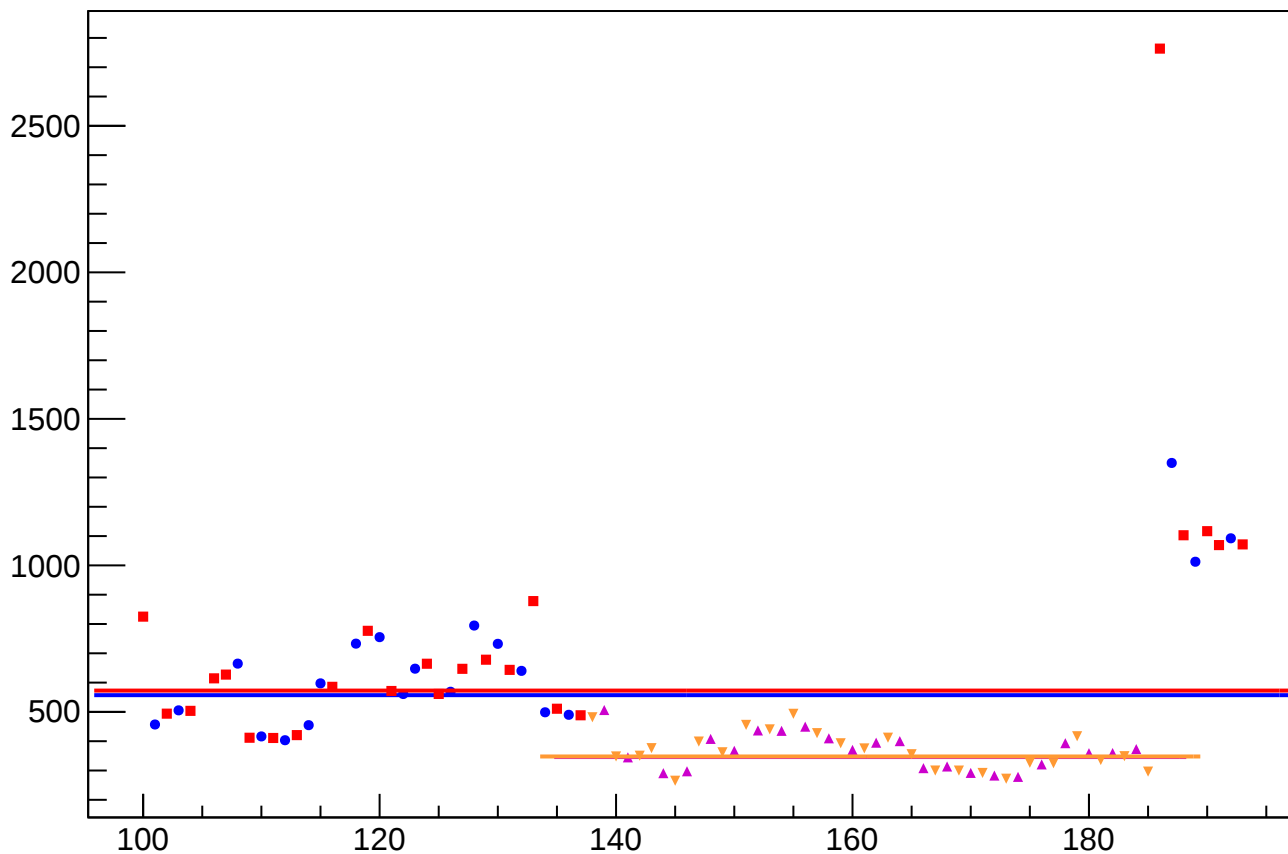
Right: 129.025 ± 141.869 χ^2/NDF : 46.4/43

In: 36.400 ± 77.788 χ^2/NDF : 51.1/42

Out: -282.208 ± 75.948 χ^2/NDF : 94.2/48

All: -126.715 ± 54.342 χ^2/NDF : 153.8/91

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 557.118 $\pm$ 0.145 χ^2 /NDF: 1311279.8/19

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 572.780 $\pm$ 0.139 χ^2 /NDF: 2165420.5/23

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF:900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

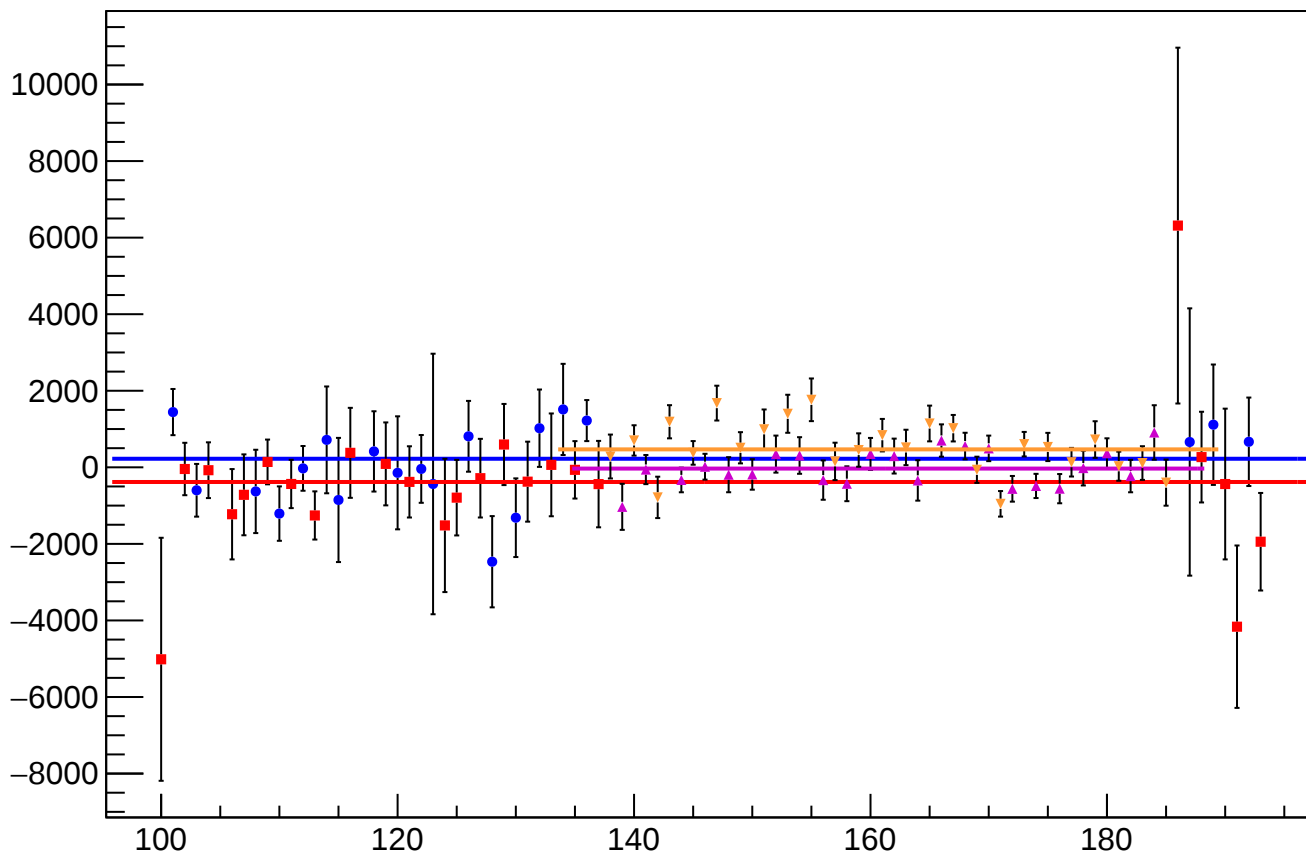
Right: 565.282 $\pm$ 0.100 χ^2 /NDF: 3482783.5/43

In: 376.344 $\pm$ 0.055 χ^2 /NDF:4027945.9/42

Out: 381.476 $\pm$ 0.054 χ^2 /NDF:5438290.2/48

All: 378.971 $\pm$ 0.038 χ^2 /NDF: 9470692.4/91

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 223.709 $\pm$ 206.492 χ^2 /NDF: 24.6/19

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -383.123 $\pm$ 198.001 χ^2 /NDF: 15.3/23

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

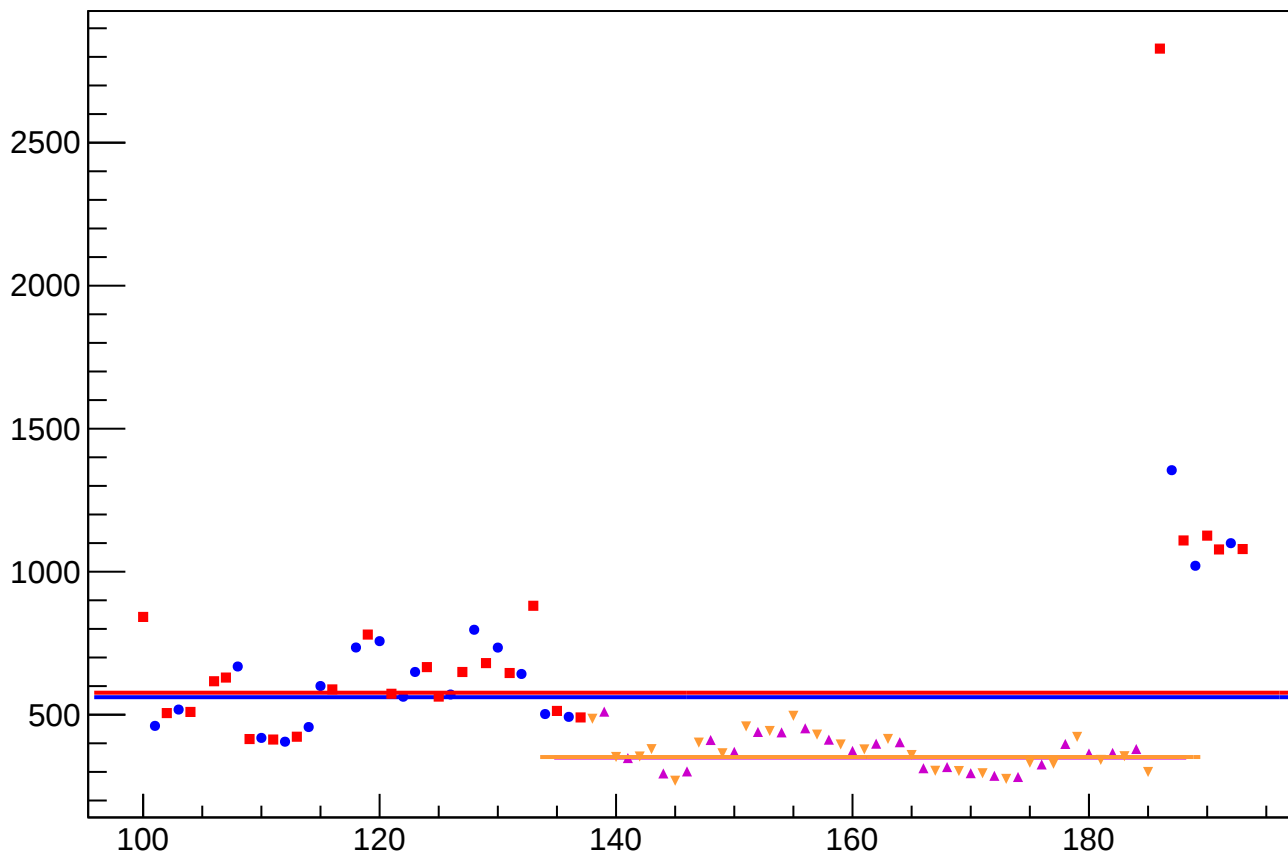
Right: -92.439 $\pm$ 142.915 χ^2 /NDF: 44.5/43

In: 4.413 $\pm$ 78.651 χ^2 /NDF:51.6/42

Out: 340.756 $\pm$ 76.778 χ^2 /NDF:88.6/48

All: 176.638 $\pm$ 54.941 χ^2 /NDF: 149.6/91

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 561.216+/-0.146 χ^2/NDF : 1303098.6/19

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 576.927+/-0.140 χ^2/NDF : 2161634.7/23

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

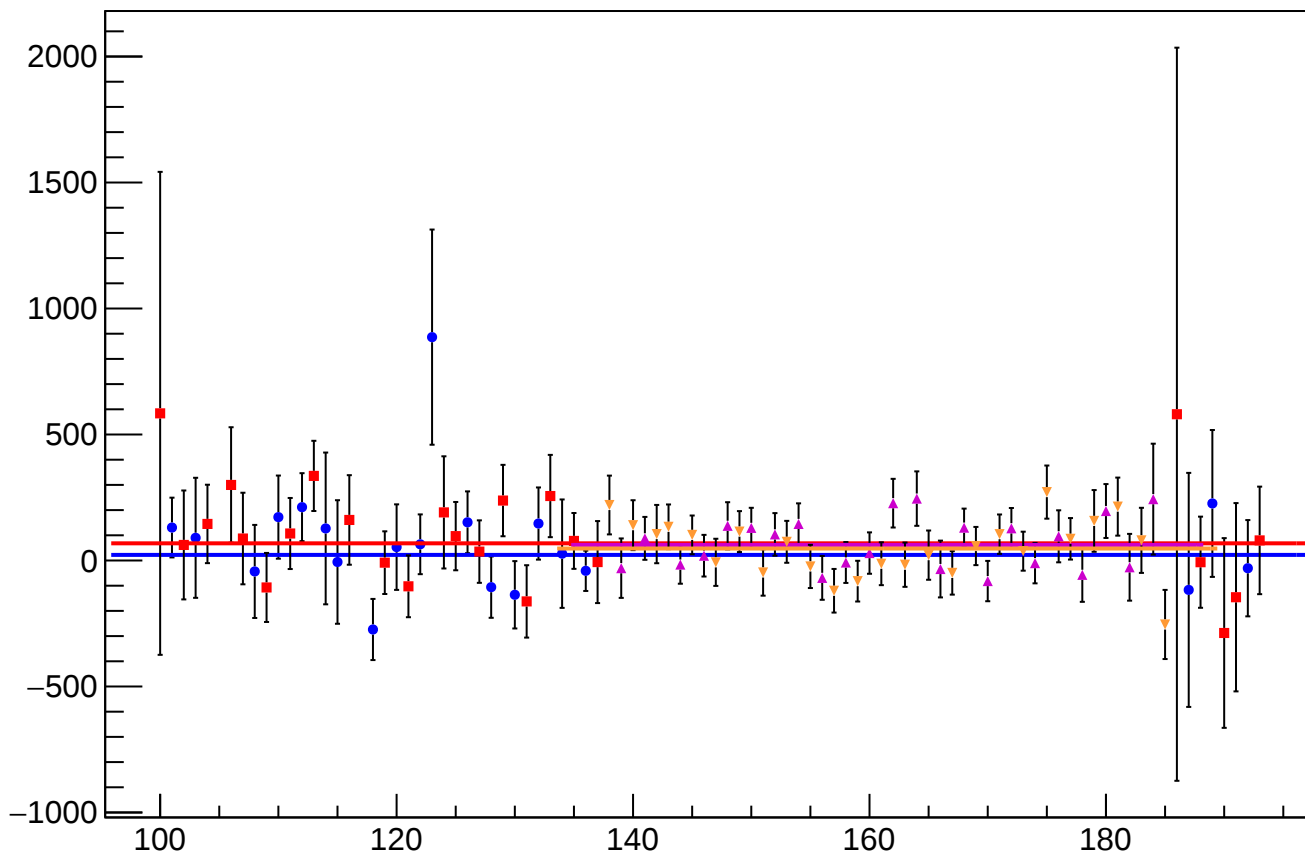
Right: 569.401+/-0.101 χ^2/NDF : 3470765.1/43

In: 380.780+/-0.056 χ^2/NDF : 3967741.2/42

Out: 385.833+/-0.054 χ^2/NDF : 5371408.3/48

All: 383.368+/-0.039 χ^2/NDF : 9343376.1/91

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 22.208 $\pm$ 33.762 χ^2 /NDF: 19.9/19

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 68.138 $\pm$ 33.465 χ^2 /NDF: 17.0/23

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

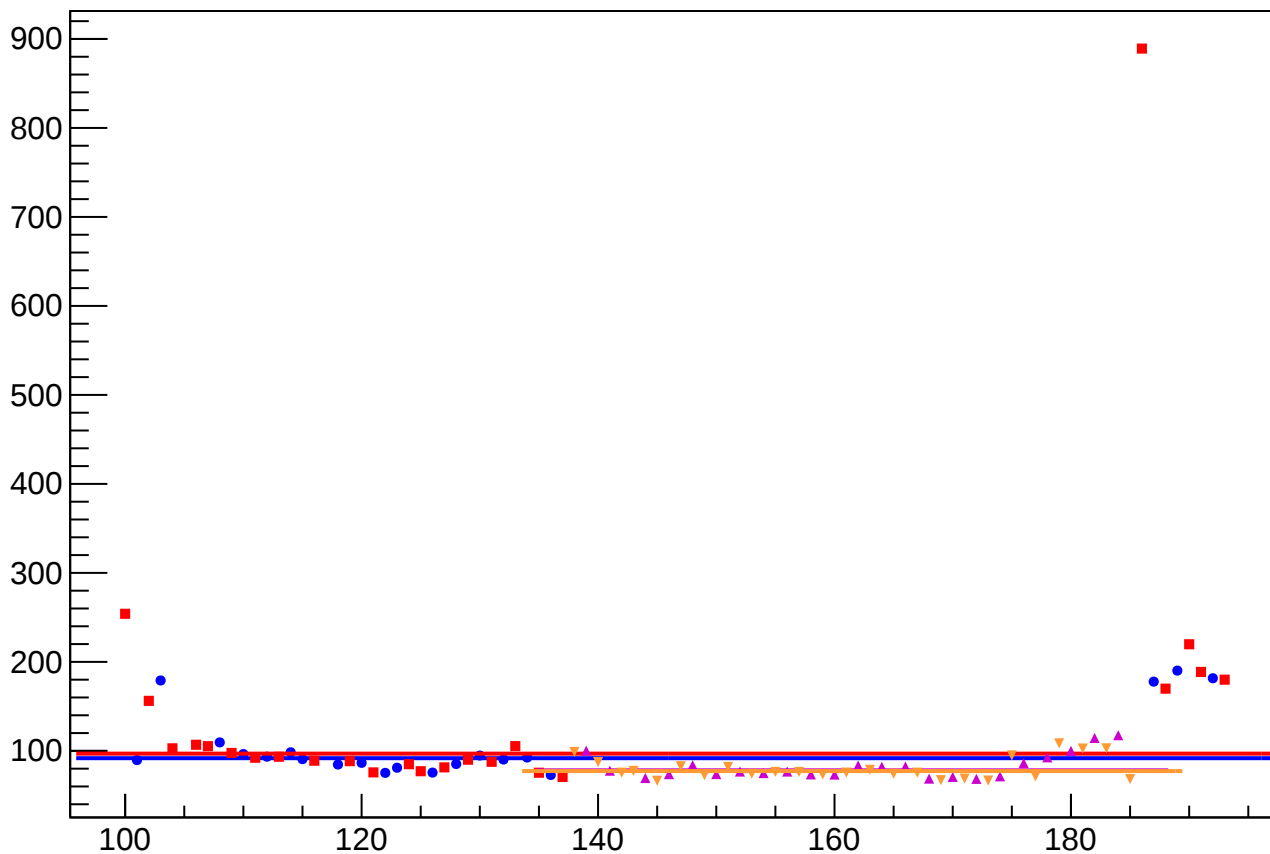
Right: 45.376 $\pm$ 23.767 χ^2 /NDF: 37.8/43

In: 52.332 $\pm$ 16.530 χ^2 /NDF:44.9/42

Out: 52.175 $\pm$ 16.024 χ^2 /NDF:46.7/48

All: 52.251 $\pm$ 11.505 χ^2 /NDF: 91.6/91

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 91.771 $\pm$ 0.024 χ^2 /NDF: 1231430.7/19

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 96.888 $\pm$ 0.024 χ^2 /NDF: 2071895.9/23

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

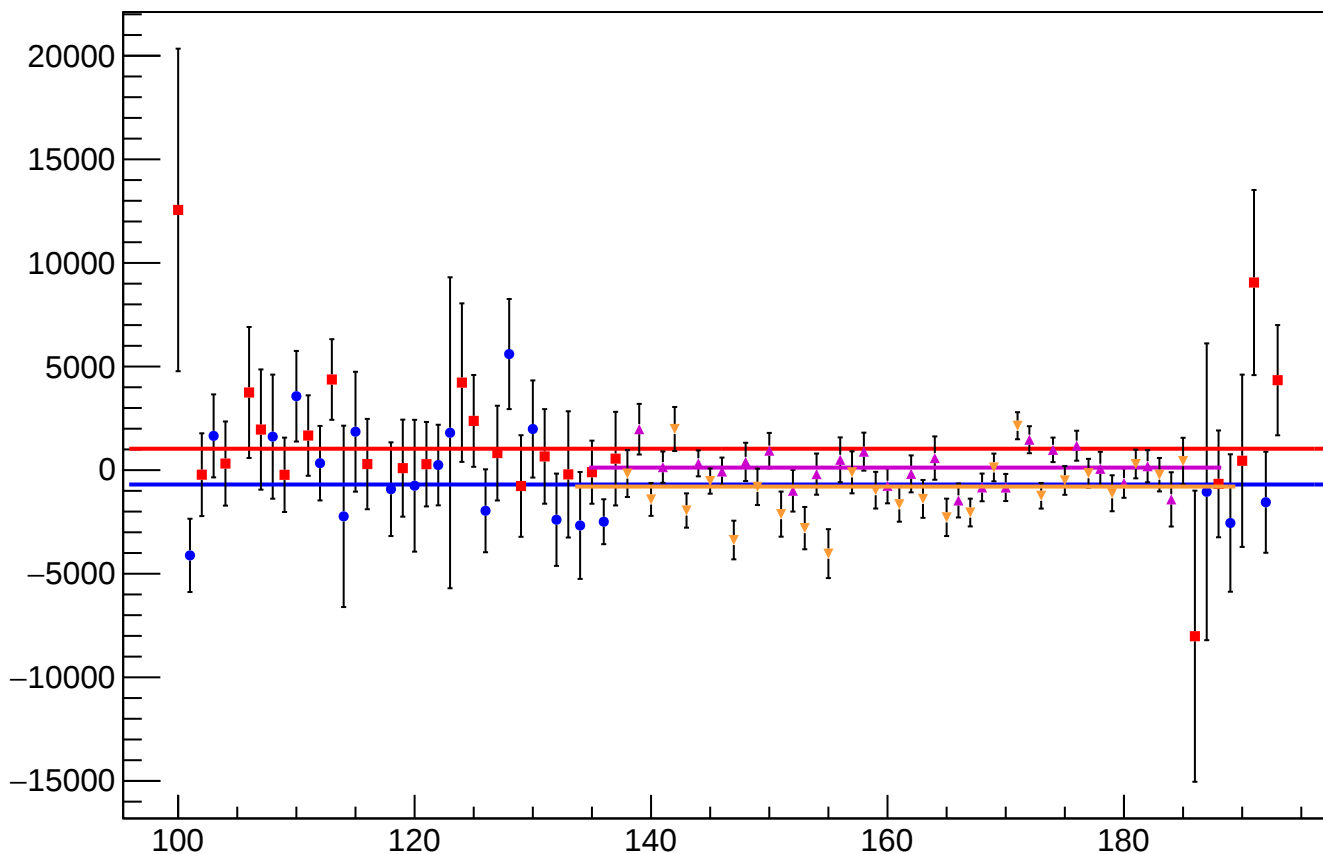
Right: 94.352 $\pm$ 0.017 χ^2 /NDF: 3326504.2/43

In: 81.407 $\pm$ 0.012 χ^2 /NDF: 2061449.7/42

Out: 81.804 $\pm$ 0.011 χ^2 /NDF: 3234785.1/48

All: 81.611 $\pm$ 0.008 χ^2 /NDF: 5296830.3/91

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -693.562+/-499.862 χ^2/NDF : 22.8/19

Left Out: -792.776+/-162.659 χ^2/NDF : 66.6/24

Right Out: 1033.538+/-489.170 χ^2/NDF : 16.8/23

Left In: 122.198+/-166.193 χ^2/NDF : 25.9/22

Left: -345.122+/-116.247 χ^2/NDF : 108.0/47

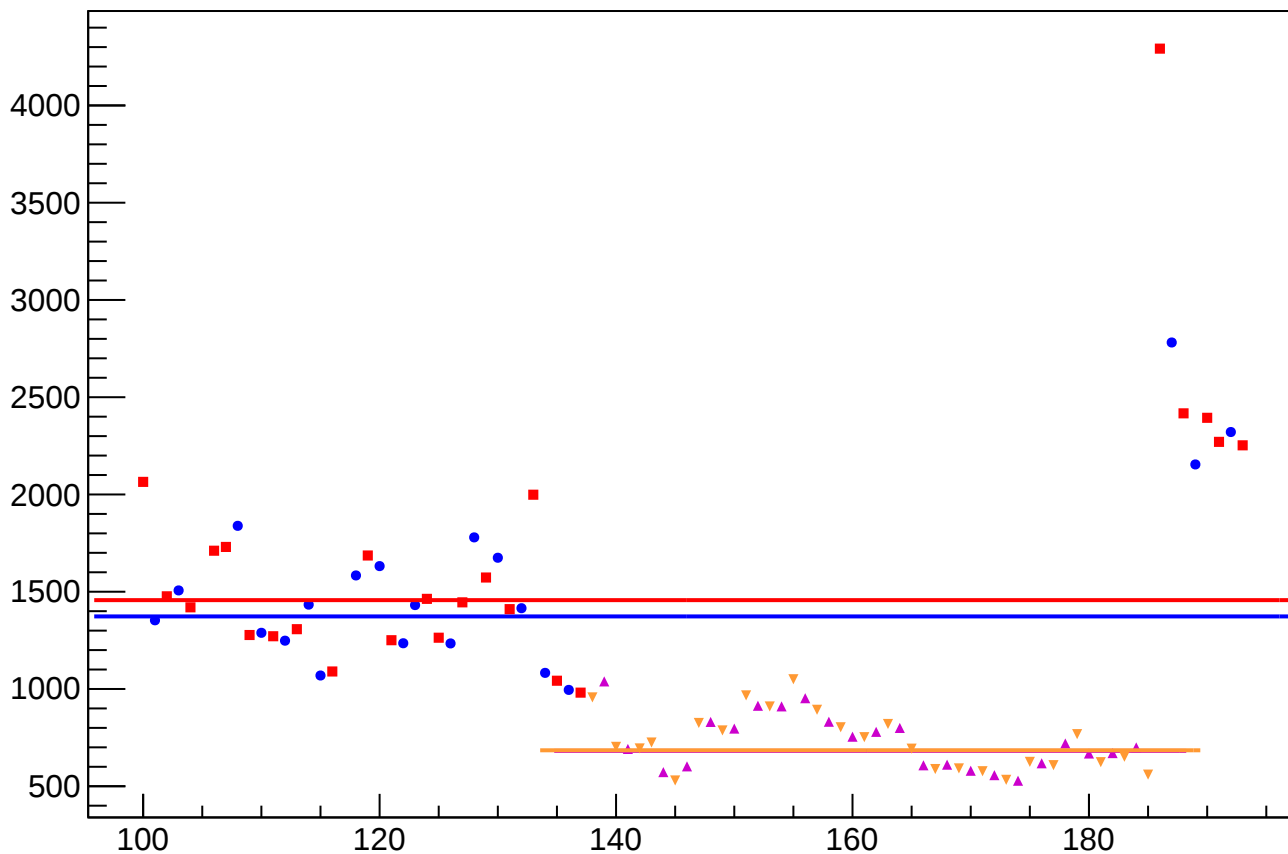
Right: 188.656+/-349.614 χ^2/NDF : 45.7/43

In: 40.998+/-157.705 χ^2/NDF : 51.1/42

Out: -610.946+/-154.349 χ^2/NDF : 96.0/48

All: -291.984+/-110.309 χ^2/NDF : 155.8/91

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1373.062 $\pm$ 0.353 χ^2 /NDF: 982271.0/19

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1456.751 $\pm$ 0.346 χ^2 /NDF: 1461025.8/23

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF: 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

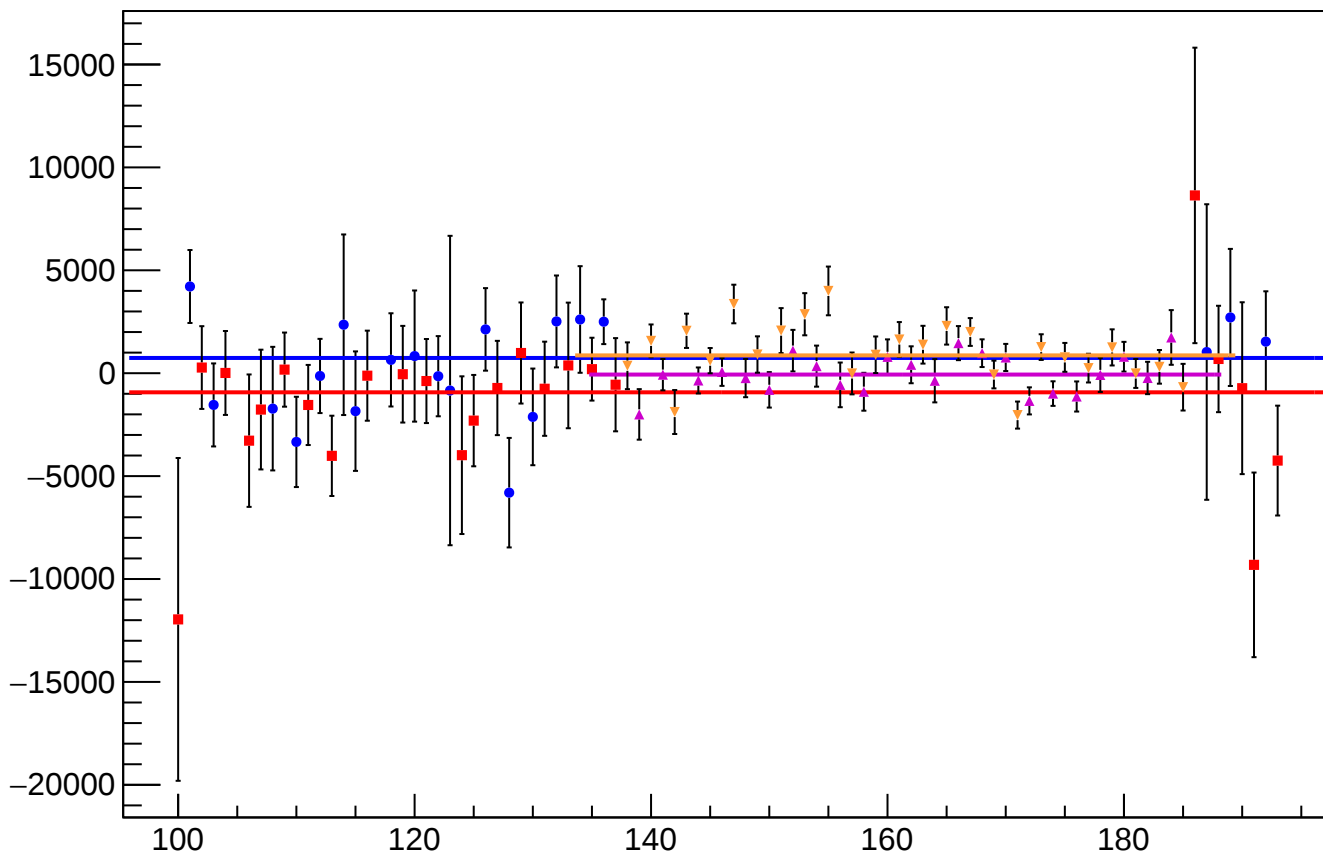
Right: 1415.811 $\pm$ 0.247 χ^2 /NDF: 2471933.1/43

In: 750.528 $\pm$ 0.112 χ^2 /NDF: 5546923.3/42

Out: 761.643 $\pm$ 0.109 χ^2 /NDF: 7226148.2/48

All: 756.205 $\pm$ 0.078 χ^2 /NDF: 12778145.1/92

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 740.976 $\pm$ 501.304 χ^2 /NDF: 22.9/19

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -928.877 $\pm$ 490.837 χ^2 /NDF: 16.1/23

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

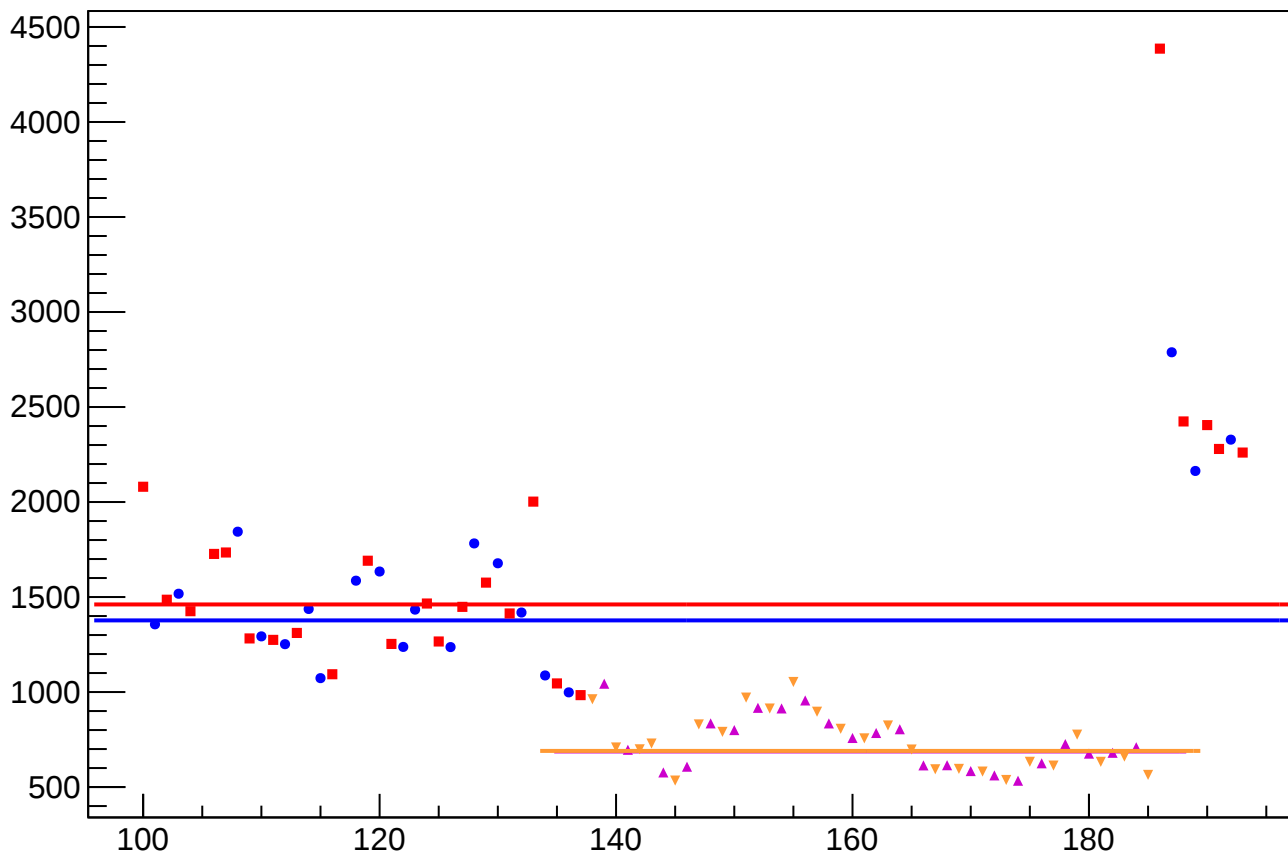
Right: -111.565 $\pm$ 350.716 χ^2 /NDF: 44.7/43

In: 15.099 $\pm$ 158.853 χ^2 /NDF:51.7/42

Out: 685.610 $\pm$ 155.449 χ^2 /NDF:91.0/48

All: 357.616 $\pm$ 111.103 χ^2 /NDF: 151.7/91

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1377.056+/-0.354 χ^2/NDF : 982043.4/19

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1460.994+/-0.347 χ^2/NDF : 1469407.7/23

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

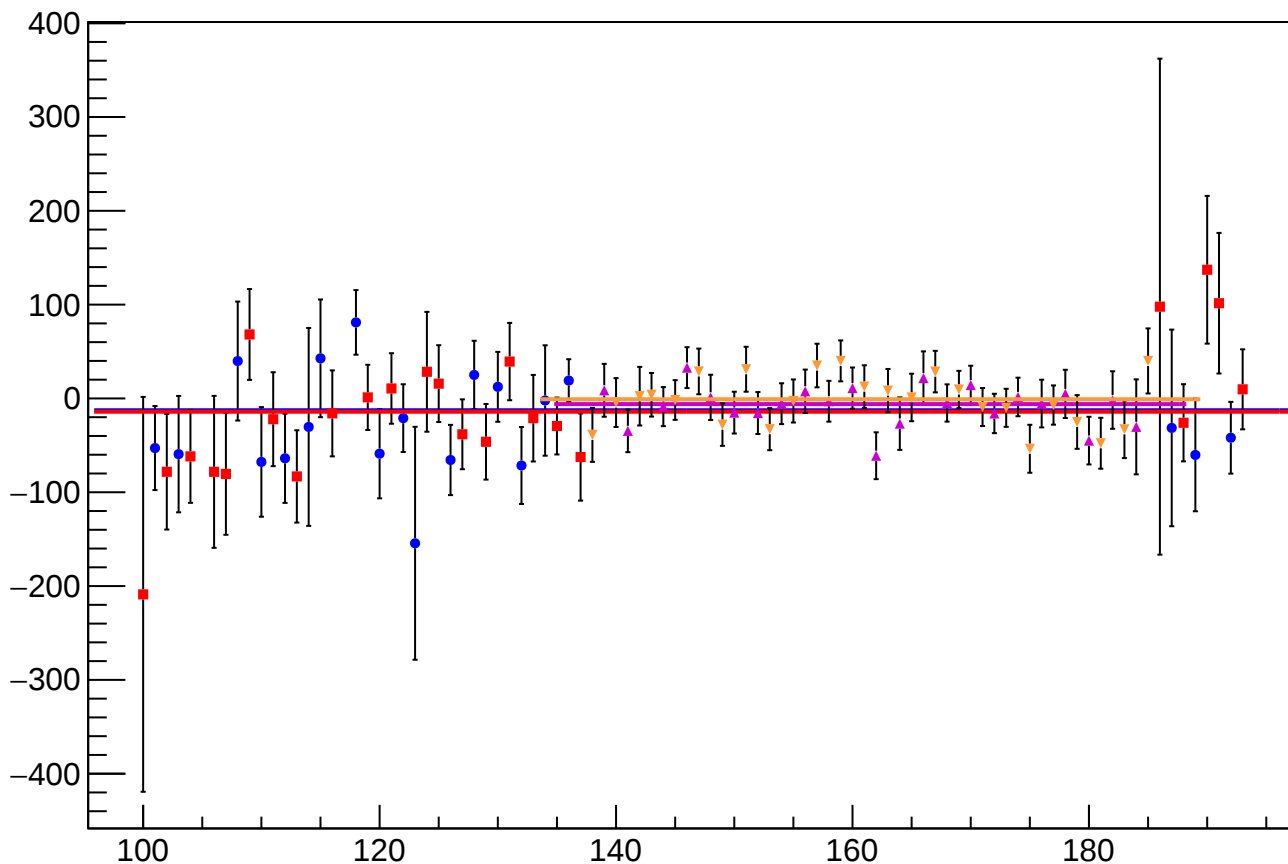
Right: 1419.910+/-0.248 χ^2/NDF : 2480078.7/43

In: 756.485+/-0.112 χ^2/NDF : 5488707.5/42

Out: 767.481+/-0.110 χ^2/NDF : 7165361.0/48

All: 762.102+/-0.079 χ^2/NDF : 12658963.4/92

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.587 ± 9.874 χ^2/NDF : 23.4/19

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: -14.163 ± 9.705 χ^2/NDF : 21.8/23

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

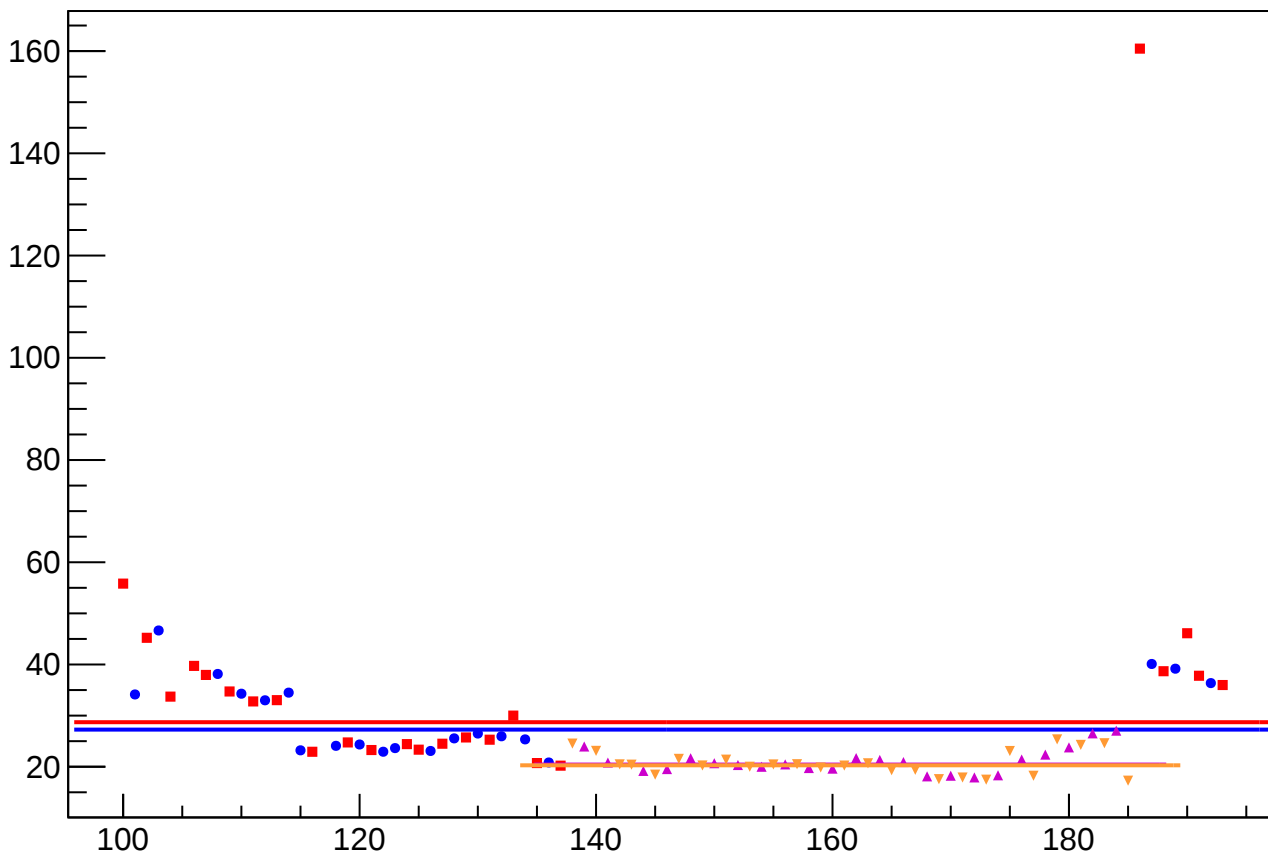
Right: -13.389 ± 6.921 χ^2/NDF : 45.2/43

In: -7.346 ± 4.407 χ^2/NDF : 40.7/42

Out: -3.441 ± 4.274 χ^2/NDF : 51.2/48

All: -5.333 ± 3.068 χ^2/NDF : 92.3/91

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 27.262 $\pm$ 0.007 χ^2 /NDF: 848455.8/19

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 28.711 $\pm$ 0.007 χ^2 /NDF: 1535377.5/23

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

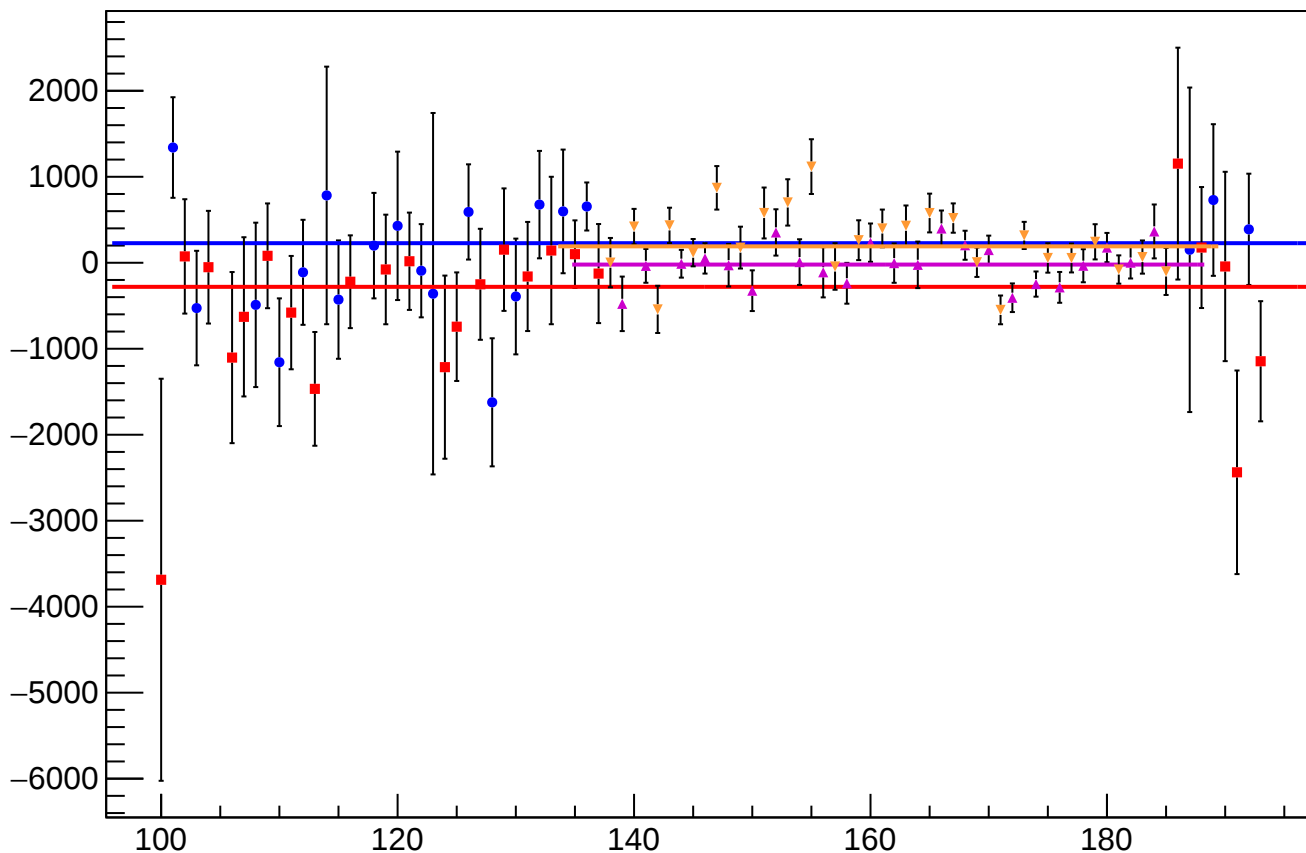
Right: 27.999 $\pm$ 0.005 χ^2 /NDF: 2405749.6/43

In: 21.786 $\pm$ 0.003 χ^2 /NDF: 1940042.4/42

Out: 21.914 $\pm$ 0.003 χ^2 /NDF: 3159368.1/48

All: 21.852 $\pm$ 0.002 χ^2 /NDF: 5100282.5/91

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 227.762 ± 142.150 χ^2/NDF : 21.7/19

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -280.009 ± 140.733 χ^2/NDF : 16.9/23

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

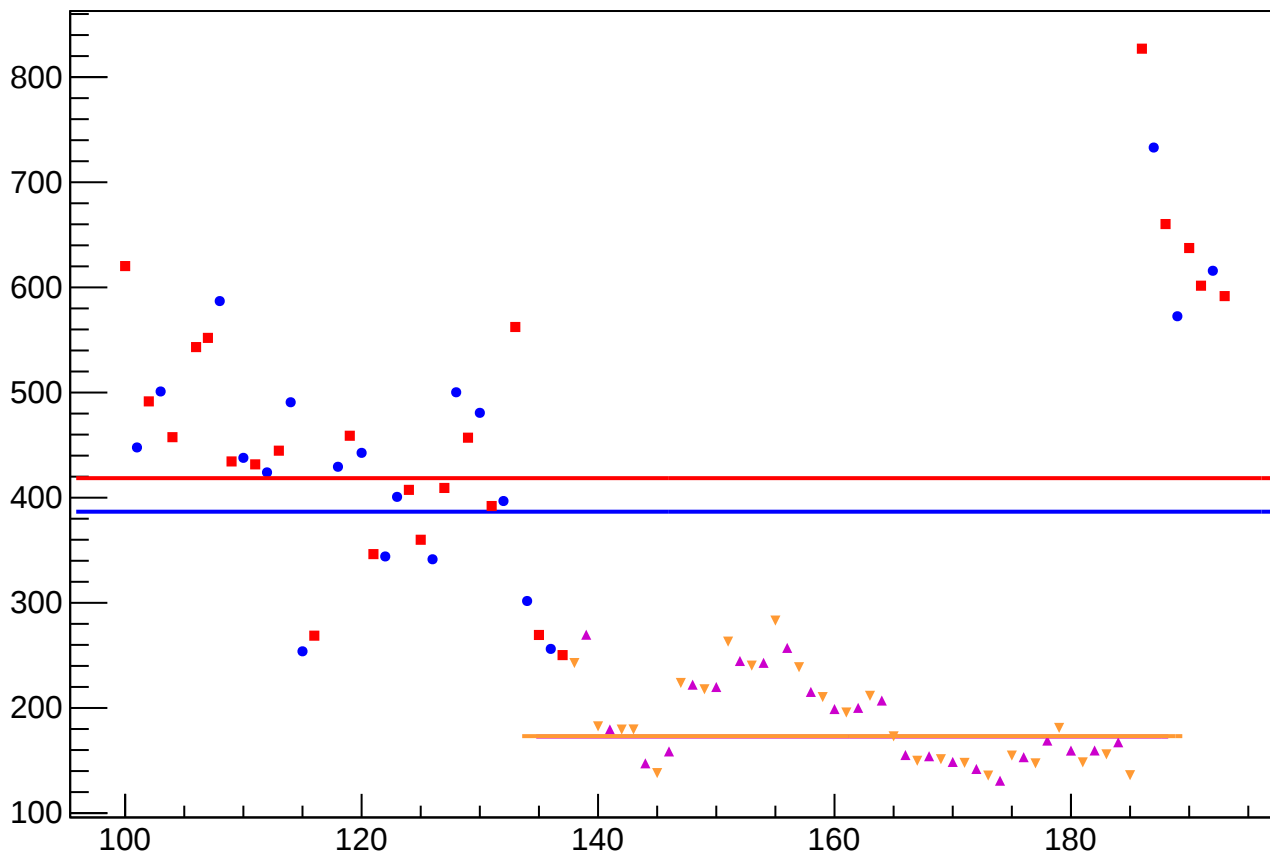
Right: -28.667 ± 100.011 χ^2/NDF : 45.1/43

In: -0.771 ± 40.535 χ^2/NDF : 52.3/42

Out: 153.507 ± 39.641 χ^2/NDF : 95.1/48

All: 78.088 ± 28.341 χ^2/NDF : 154.8/91

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 386.677 $\pm$ 0.101 χ^2 /NDF: 1270920.1/19

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF: 1561250.6/24

Right Out: 418.579 $\pm$ 0.100 χ^2 /NDF: 1529885.8/23

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

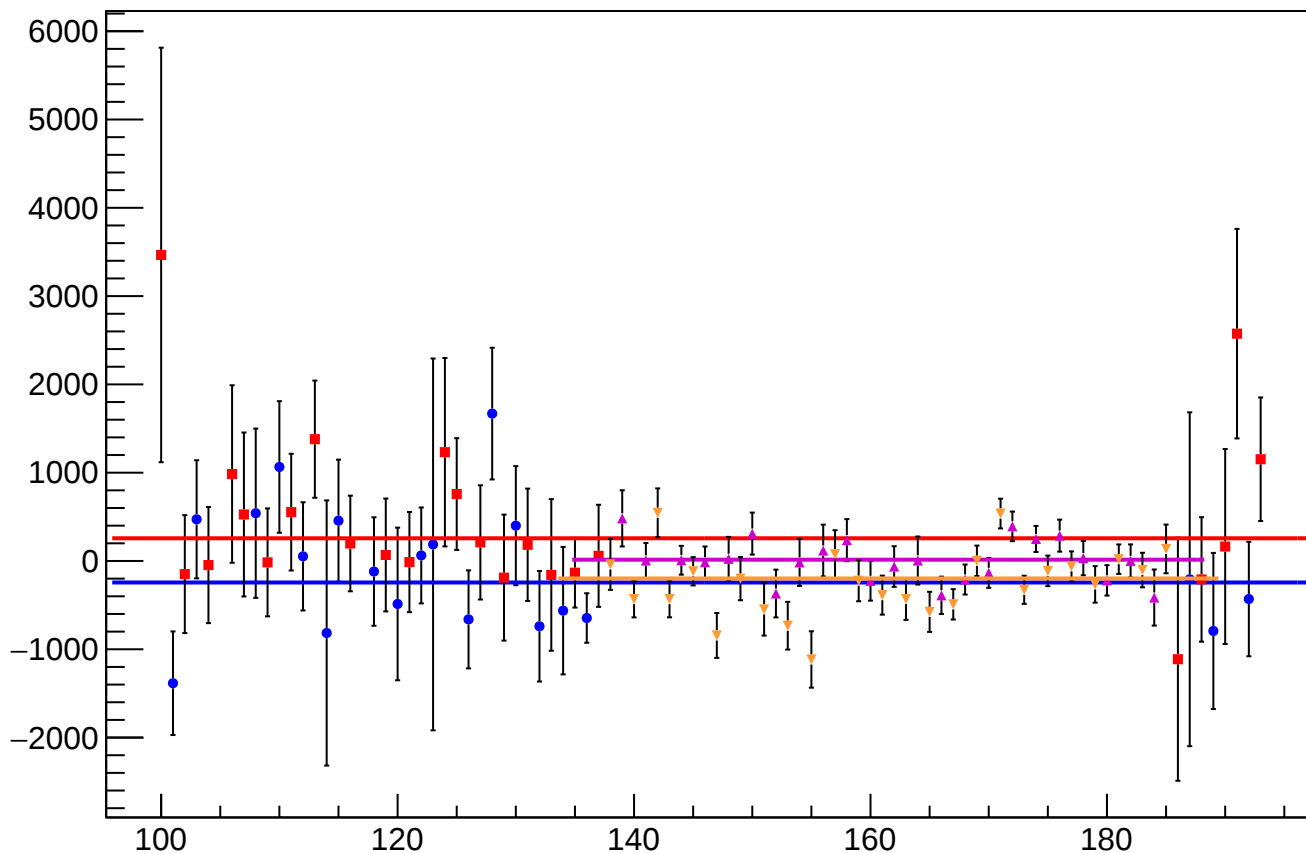
Right: 402.788 $\pm$ 0.071 χ^2 /NDF: 2851678.0/43

In: 190.217 $\pm$ 0.029 χ^2 /NDF: 6801355.7/42

Out: 192.678 $\pm$ 0.028 χ^2 /NDF: 8688397.0/48

All: 191.475 $\pm$ 0.020 χ^2 /NDF: 15493521.5/92

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -243.609 $\pm$ 142.555 χ^2/NDF : 22.0/19

Left Out: -197.918 $\pm$ 41.638 χ^2/NDF : 64.3/24

Right Out: 257.282 $\pm$ 141.169 χ^2/NDF : 16.7/23

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

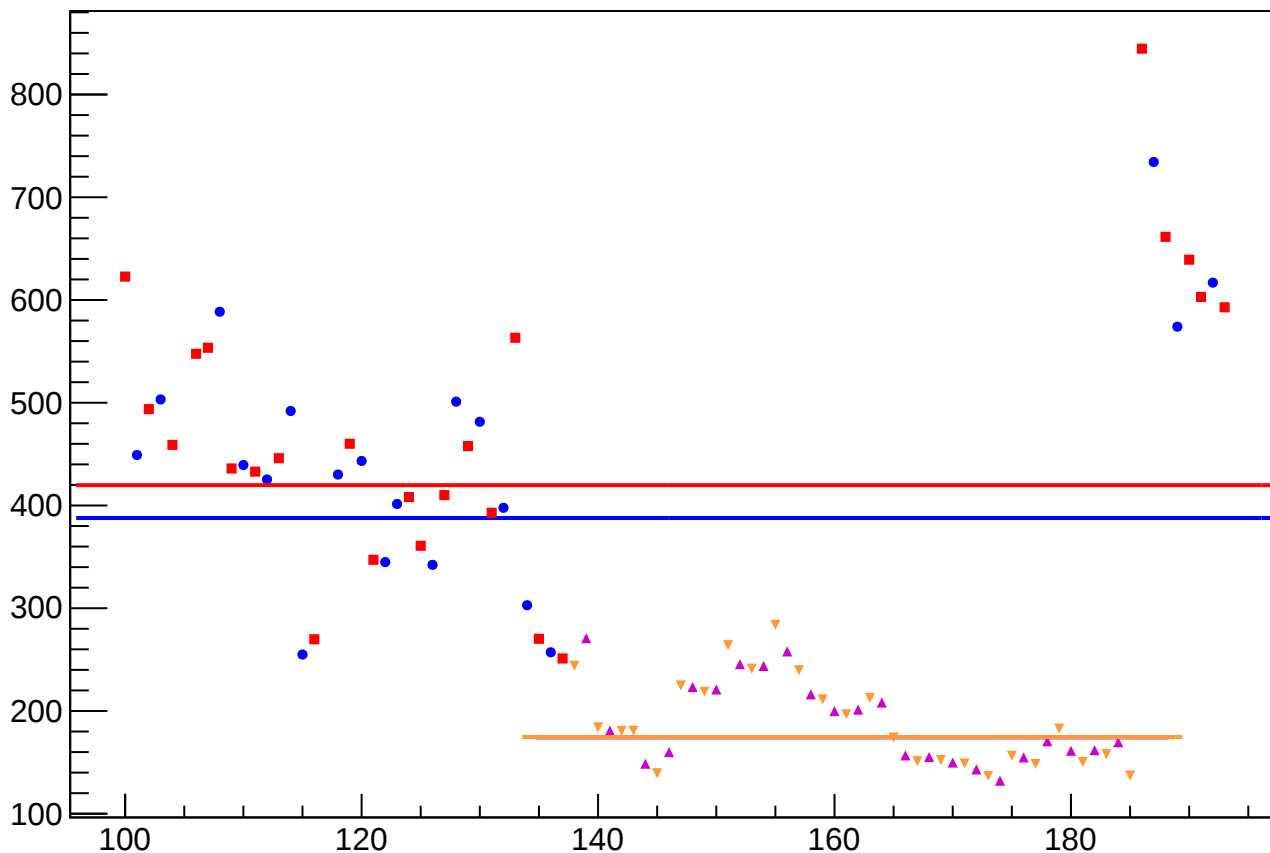
Right: 9.284 $\pm$ 100.308 χ^2/NDF : 44.9/43

In: -6.580 $\pm$ 40.842 χ^2/NDF : 52.7/42

Out: -161.486 $\pm$ 39.937 χ^2/NDF : 90.6/48

All: -85.769 $\pm$ 28.554 χ^2/NDF : 150.6/91

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 387.839 ± 0.101 $\chi^2/\text{NDF}: 1266874.5/19$

Left Out: 174.648 ± 0.029 $\chi^2/\text{NDF}: 1531999.5/24$

Right Out: 419.789 ± 0.100 $\chi^2/\text{NDF}: 1535299.0/23$

Left In: 174.288 ± 0.030 $\chi^2/\text{NDF}: 1344779.5/22$

Left: 174.472 ± 0.021 $\chi^2/\text{NDF}: 2876851.9/47$

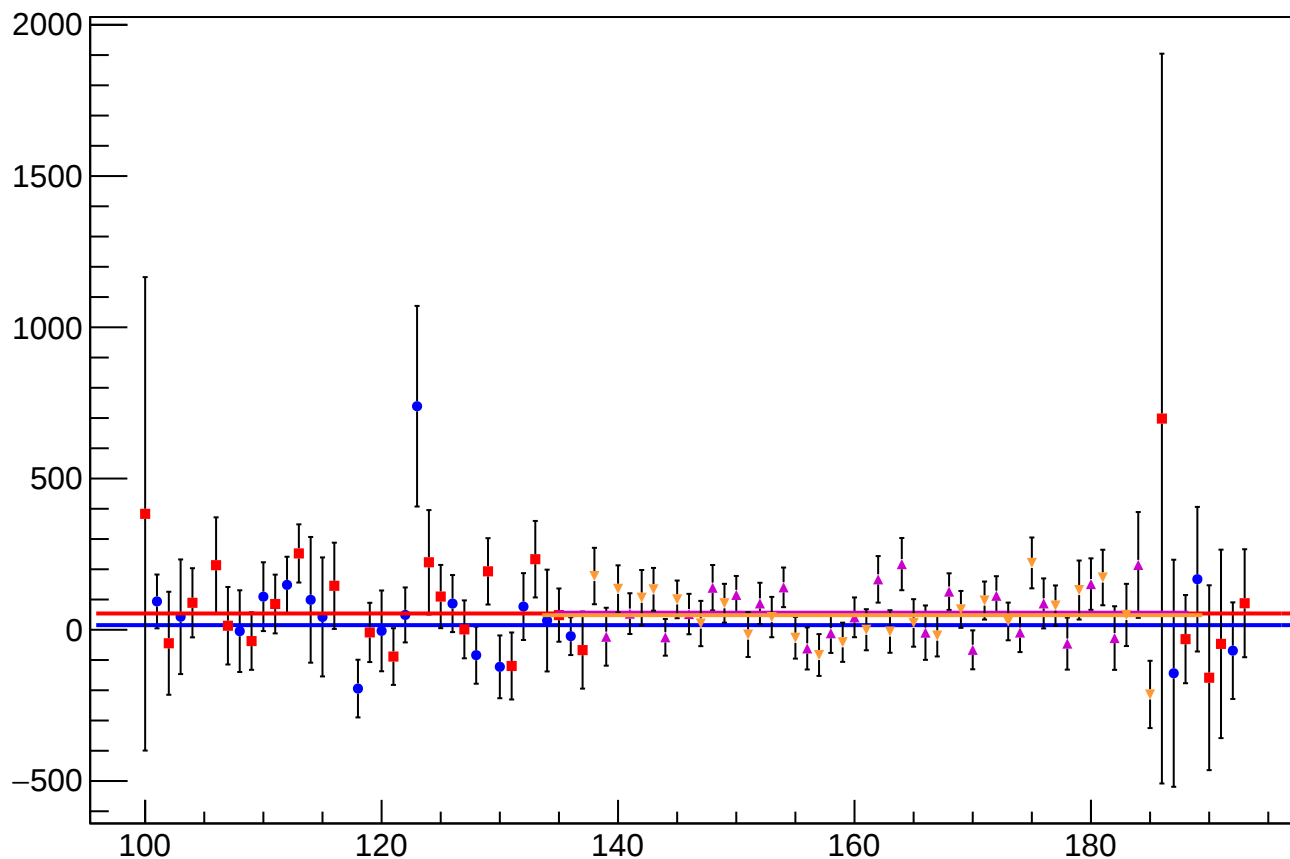
Right: 403.970 ± 0.071 $\chi^2/\text{NDF}: 2852894.2/43$

In: 191.817 ± 0.029 $\chi^2/\text{NDF}: 6731414.0/42$

Out: 194.268 ± 0.028 $\chi^2/\text{NDF}: 8615562.1/48$

All: 193.070 ± 0.020 $\chi^2/\text{NDF}: 15350656.4/97$

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 15.323+/-25.810 χ^2/NDF : 18.4/19

Left Out: 48.233+/-14.616 χ^2/NDF : 29.3/24

Right Out: 53.861+/-25.339 χ^2/NDF : 19.9/23

Left In: 56.403+/-15.182 χ^2/NDF : 27.5/22

Left: 52.163+/-10.529 χ^2/NDF : 56.9/47

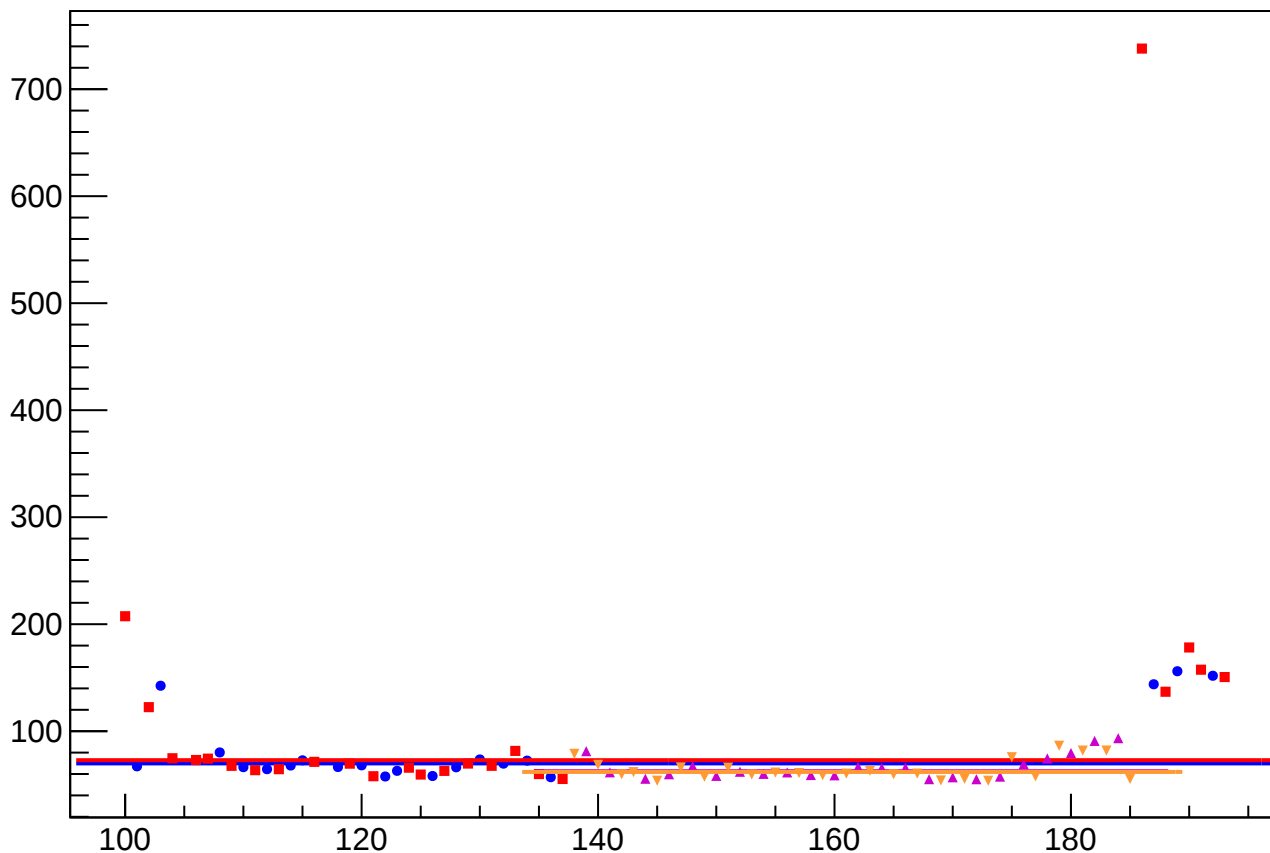
Right: 34.946+/-18.082 χ^2/NDF : 39.5/43

In: 45.843+/-13.086 χ^2/NDF : 47.8/42

Out: 49.638+/-12.661 χ^2/NDF : 49.2/48

All: 47.803+/-9.099 χ^2/NDF : 97.1/91

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 69.901 $\pm$ 0.018 χ^2 /NDF: 1341424.5/19

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 72.918 $\pm$ 0.018 χ^2 /NDF: 2234788.5/23

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

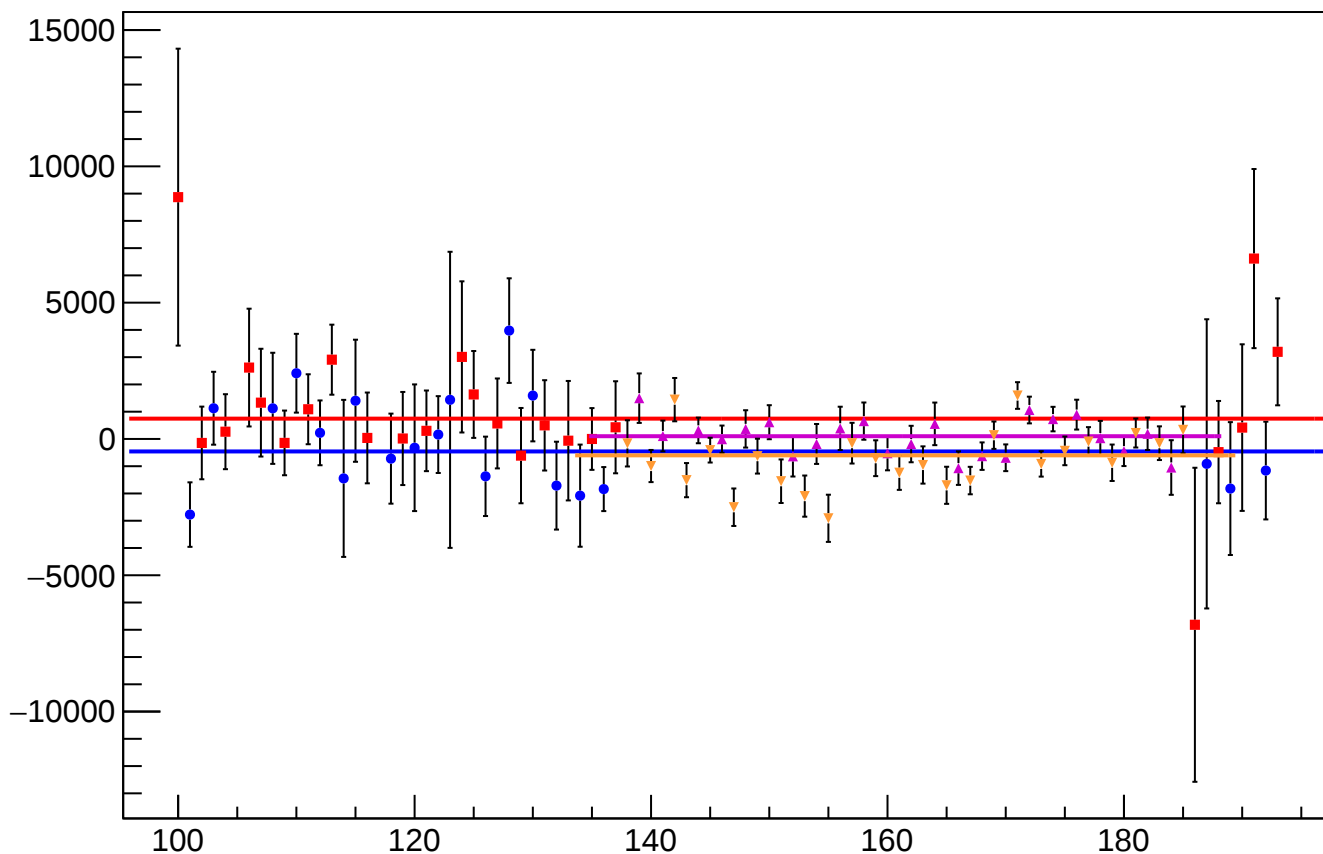
Right: 71.437 $\pm$ 0.013 χ^2 /NDF: 3590127.8/43

In: 64.482 $\pm$ 0.009 χ^2 /NDF: 2035607.6/42

Out: 64.685 $\pm$ 0.009 χ^2 /NDF: 3121120.1/48

All: 64.587 $\pm$ 0.006 χ^2 /NDF: 5156977.0/91

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -458.245+/-355.164 χ^2/NDF : 23.2/19

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 745.264+/-345.537 χ^2/NDF : 16.7/23

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

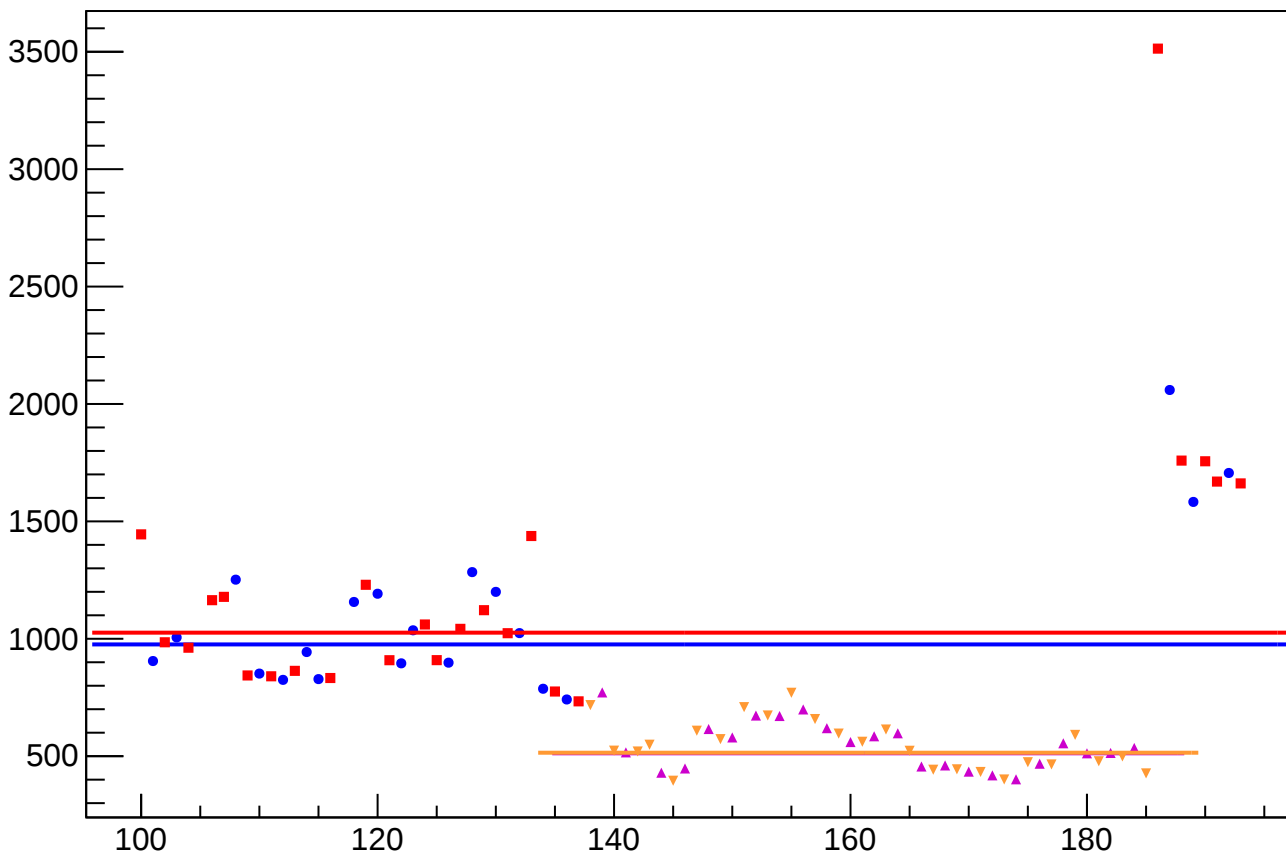
Right: 160.040+/-247.665 χ^2/NDF : 45.8/43

In: 39.201+/-117.679 χ^2/NDF : 50.9/42

Out: -451.950+/-115.139 χ^2/NDF : 95.6/48

All: -211.732+/-82.299 χ^2/NDF : 155.4/91

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 975.973+/-0.251 χ^2/NDF : 971668.0/19

Left Out: 514.758+/-0.086 χ^2/NDF : 1194945.9/24

Right Out: 1026.058+/-0.244 χ^2/NDF : 1551900.2/23

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

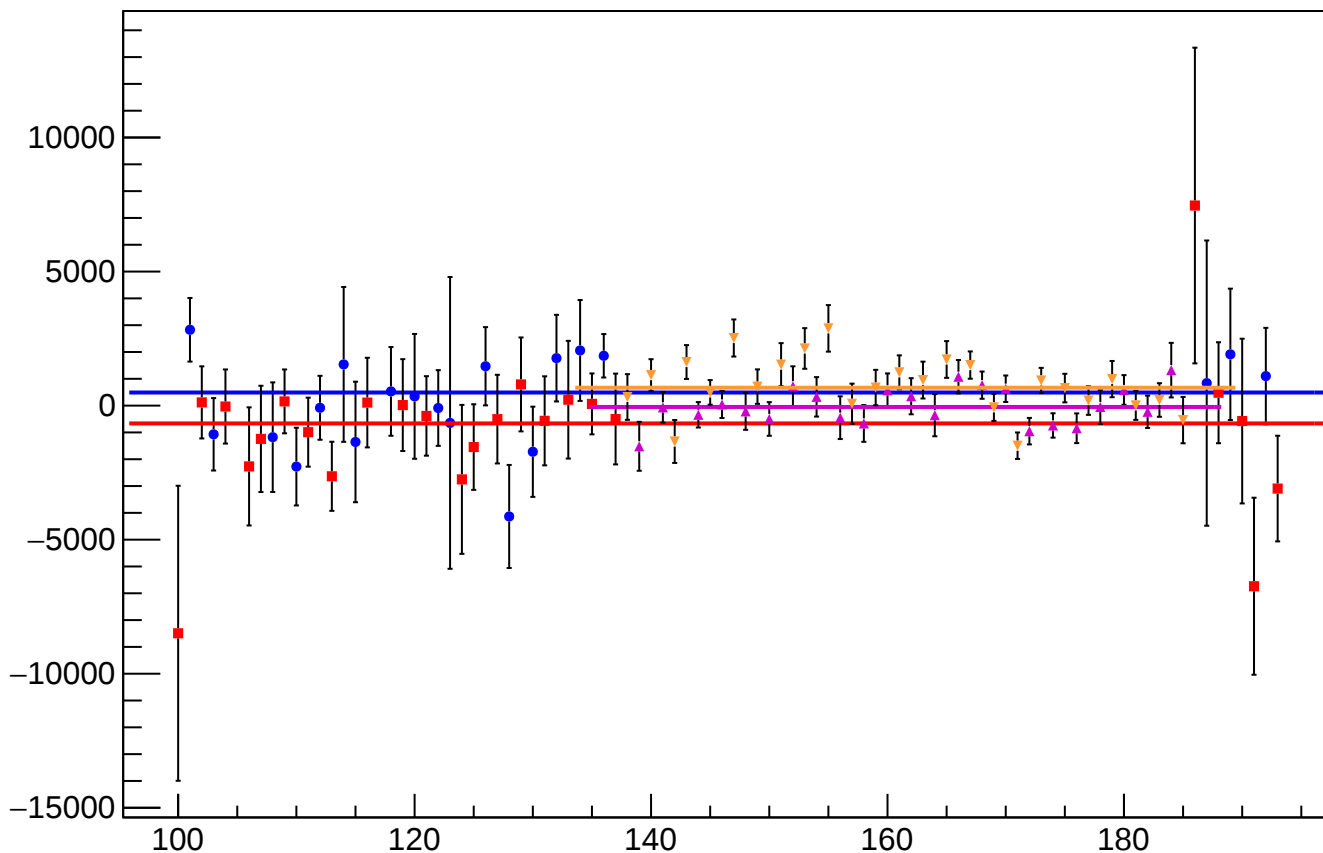
Right: 1001.703+/-0.175 χ^2/NDF : 2544001.2/43

In: 563.114+/-0.083 χ^2/NDF : 5048814.0/42

Out: 571.530+/-0.081 χ^2/NDF : 6639776.6/48

All: 567.414+/-0.058 χ^2/NDF : 11693815.7/92

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 488.918+/-356.397 χ^2/NDF : 23.4/19

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -663.926+/-346.944 χ^2/NDF : 15.8/23

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

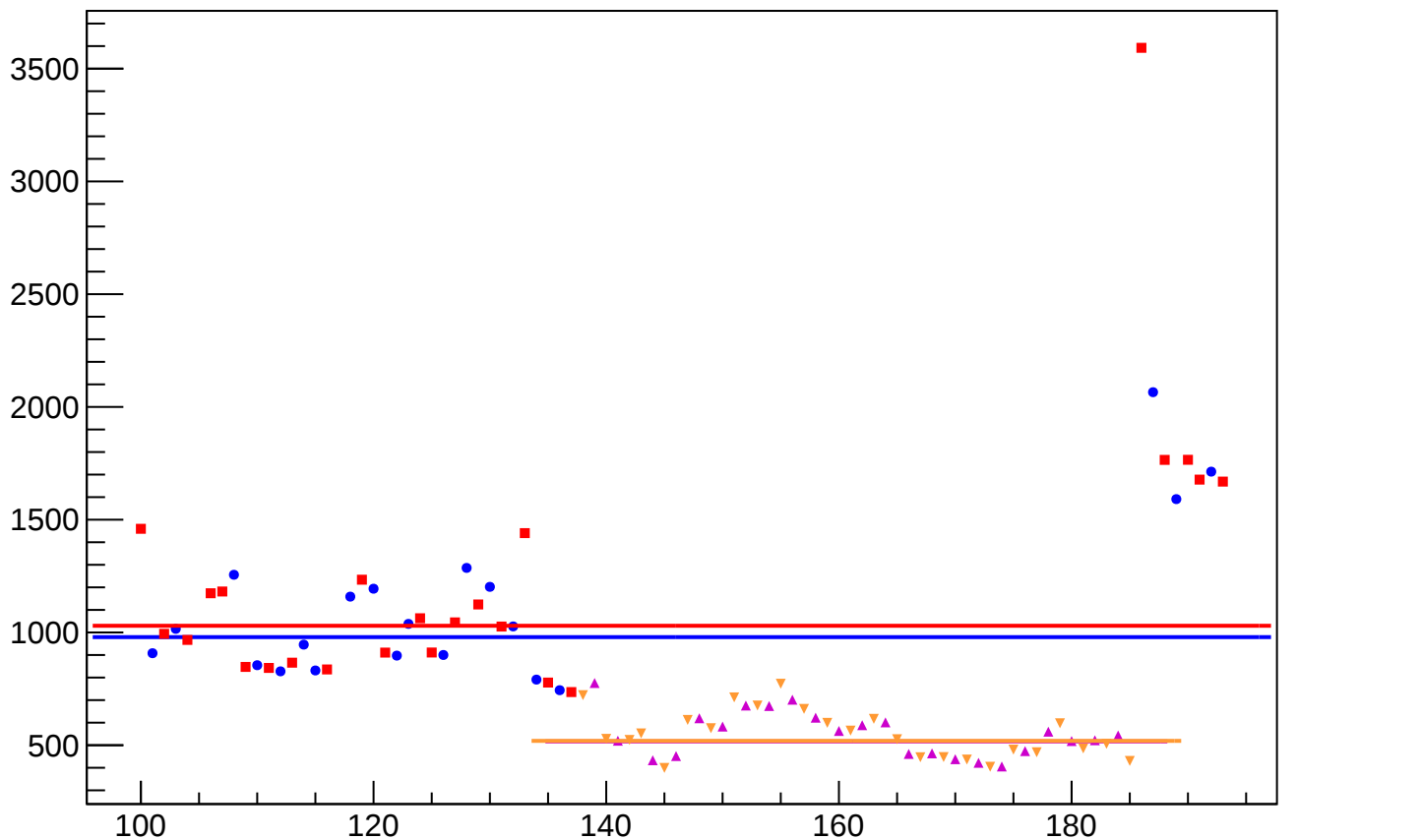
Right: -102.995+/-248.601 χ^2/NDF : 44.6/43

In: 9.641+/-118.631 χ^2/NDF : 51.5/42

Out: 518.639+/-116.052 χ^2/NDF : 90.4/48

All: 269.733+/-82.958 χ^2/NDF : 151.3/91

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 979.371+/-0.252 χ^2/NDF : 971885.0/19

Left Out: 519.254+/-0.087 χ^2/NDF :1172411.1/24

Right Out: 1029.642+/-0.245 χ^2/NDF : 1559817.6/23

Left In: 516.792+/-0.089 χ^2/NDF :1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

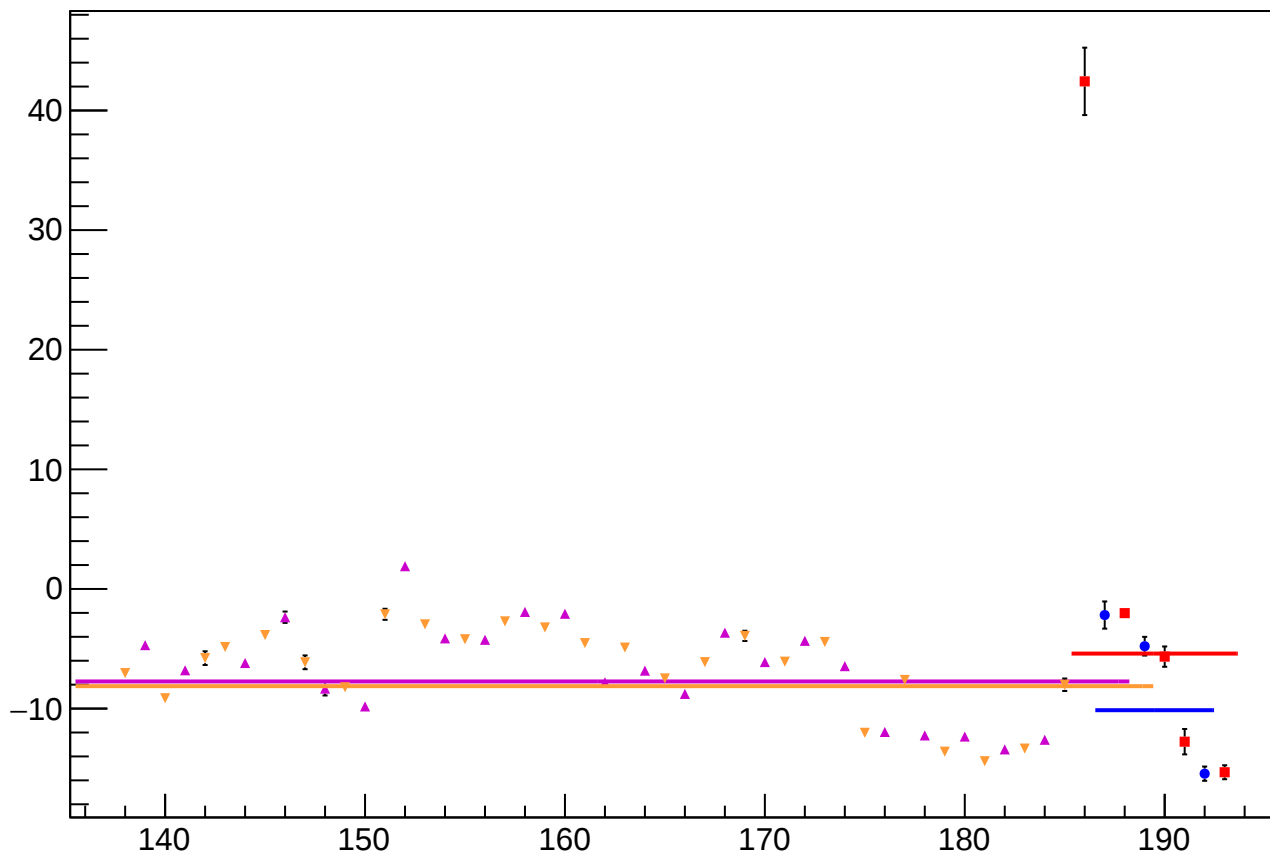
Right: 1005.182+/-0.176 χ^2/NDF : 2552133.1/43

In: 568.044+/-0.084 χ^2/NDF :4989219.2/42

Out: 576.361+/-0.082 χ^2/NDF :6576193.1/48

All: 572.294+/-0.059 χ^2/NDF : 11570434.5/92

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.135 ± 0.438 $\chi^2/\text{NDF}: 174.9/2$

Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$

Right Out: -5.402 ± 0.265 $\chi^2/\text{NDF}: 726.3/4$

Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$

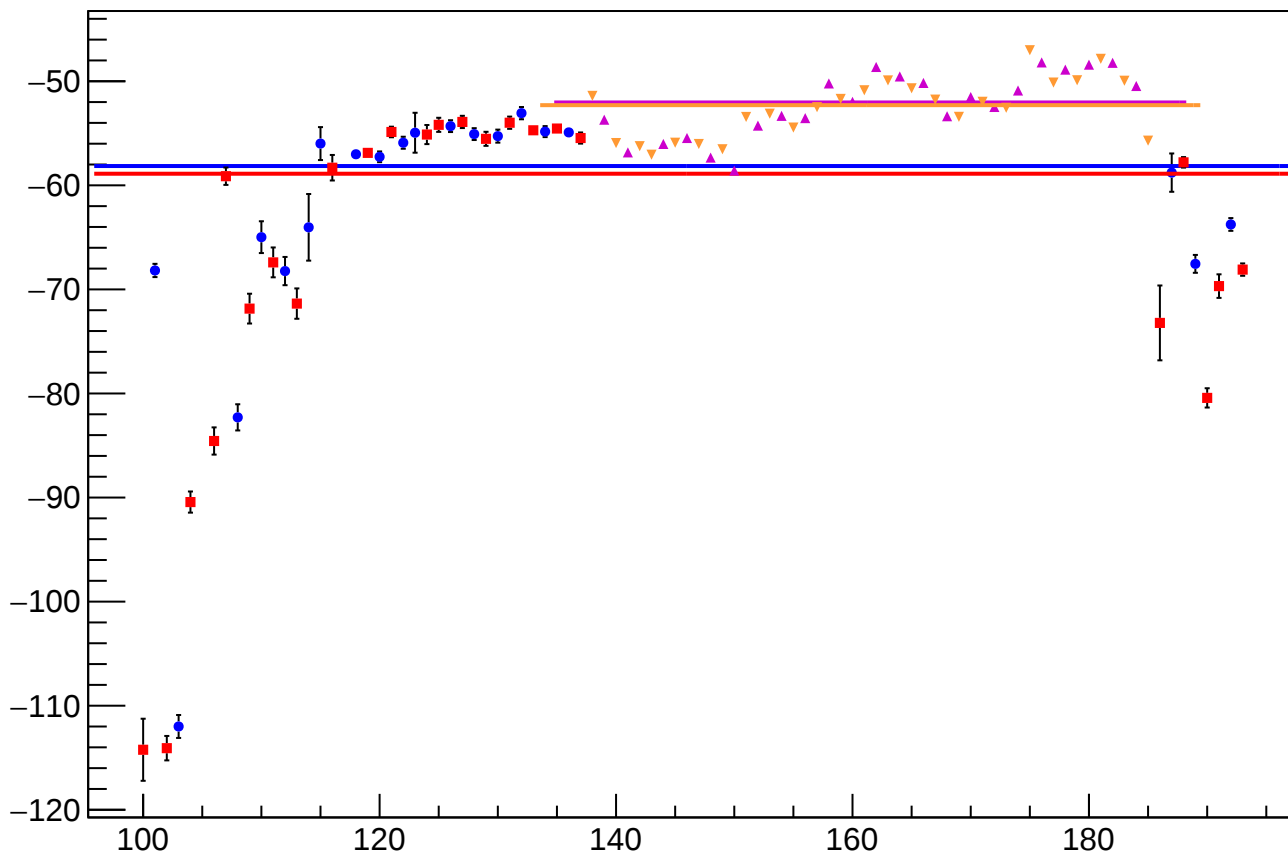
Right: -6.675 ± 0.227 $\chi^2/\text{NDF}: 986.8/7$

In: -7.790 ± 0.068 $\chi^2/\text{NDF}: 3923.4/25$

Out: -7.962 ± 0.065 $\chi^2/\text{NDF}: 4460.8/29$

All: -7.880 ± 0.047 $\chi^2/\text{NDF}: 8387.6/55$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.146 ± 0.137 χ^2/NDF : 3678.0/19

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -58.885 ± 0.132 χ^2/NDF : 5658.8/23

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

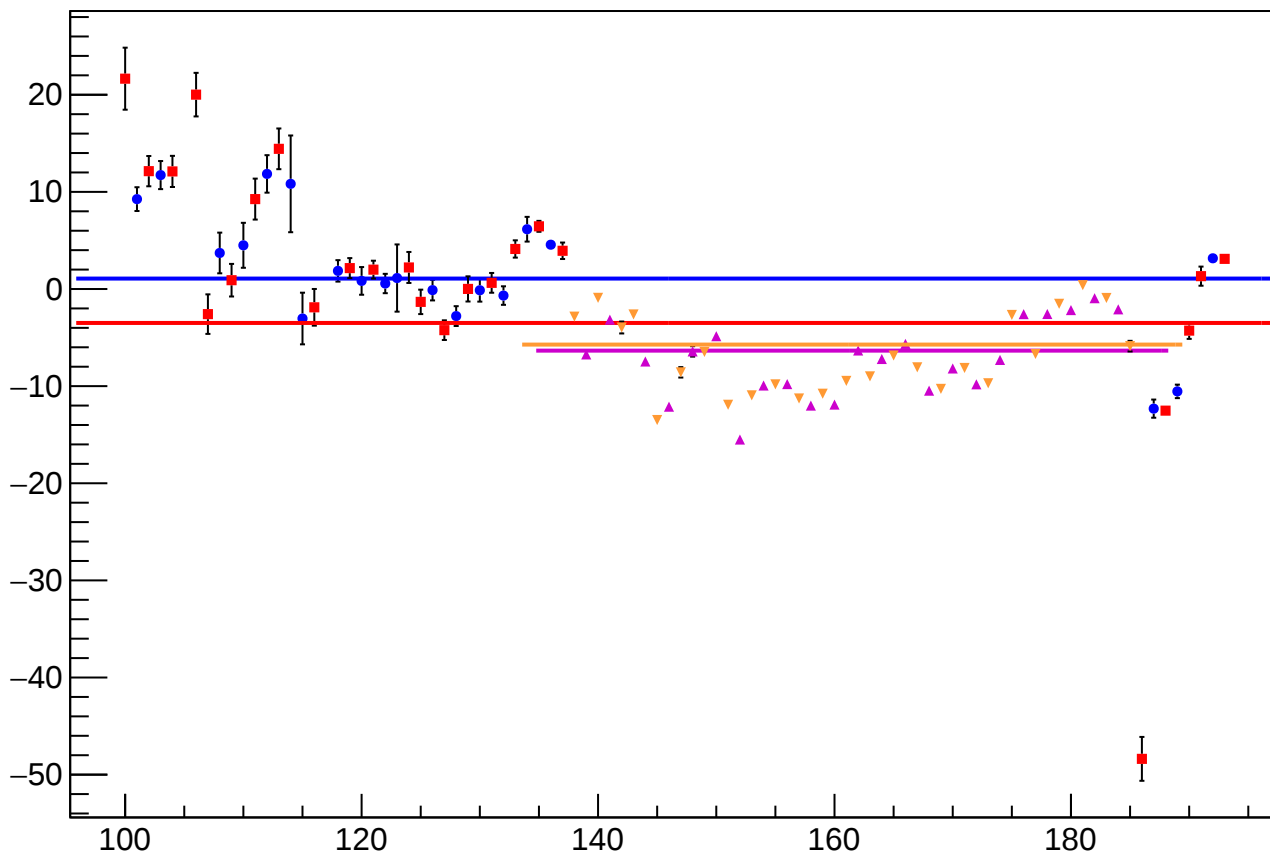
Right: -58.531 ± 0.095 χ^2/NDF : 9351.9/43

In: -52.941 ± 0.053 χ^2/NDF : 8546.0/42

Out: -53.276 ± 0.051 χ^2/NDF : 10444.5/48

All: -53.115 ± 0.037 χ^2/NDF : 19011.4/91

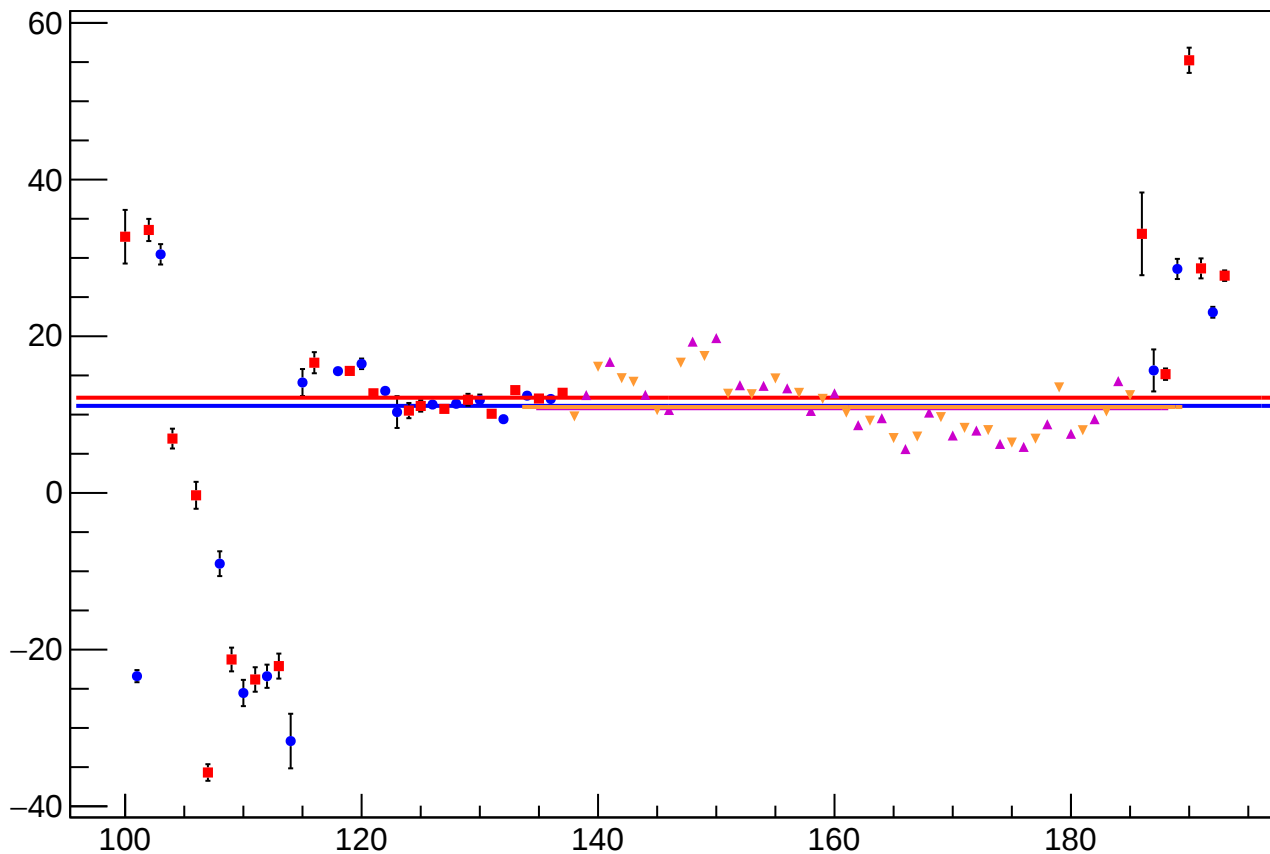
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.075 ± 0.214 $\chi^2/\text{NDF}: 752.7/19$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -3.494 ± 0.172 $\chi^2/\text{NDF}: 2739.5/23$
 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: -1.705 ± 0.134 $\chi^2/\text{NDF}: 3769.2/43$
 In: -5.653 ± 0.065 $\chi^2/\text{NDF}: 5224.8/42$
 Out: -5.423 ± 0.063 $\chi^2/\text{NDF}: 6868.1/48$
 All: -5.534 ± 0.045 $\chi^2/\text{NDF}: 12099.3/91$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.116+/-0.153 χ^2/NDF : 4197.1/19

Left Out: 10.967+/-0.061 χ^2/NDF : 2637.7/24

Right Out: 12.159+/-0.151 χ^2/NDF : 5395.8/23

Left In: 10.813+/-0.063 χ^2/NDF : 3546.8/22

Left: 10.892+/-0.044 χ^2/NDF : 6187.5/47

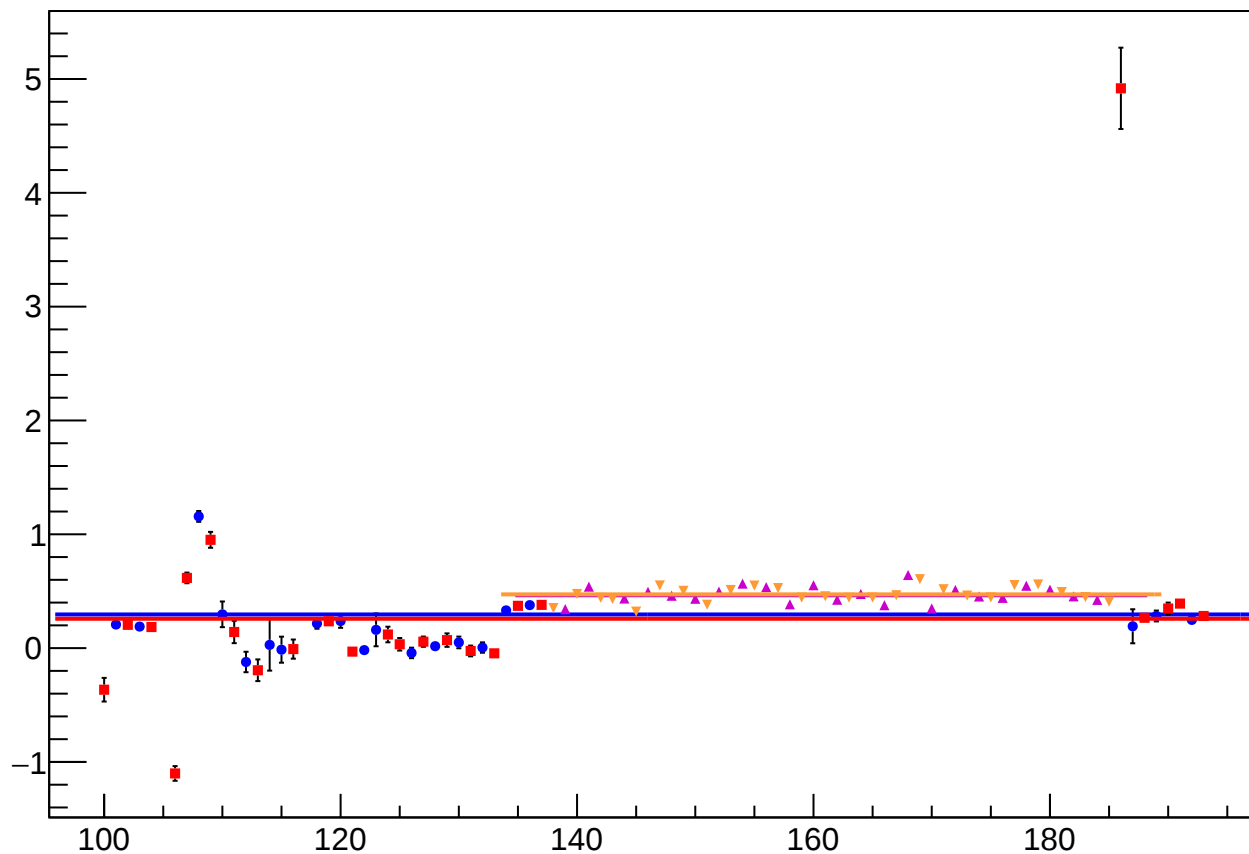
Right: 11.645+/-0.107 χ^2/NDF : 9616.5/43

In: 10.857+/-0.058 χ^2/NDF : 7747.3/42

Out: 11.137+/-0.057 χ^2/NDF : 8087.1/48

All: 11.001+/-0.041 χ^2/NDF : 15846.2/91

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.296 $\pm$ 0.008 χ^2 /NDF: 653.3/19

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.258 $\pm$ 0.007 χ^2 /NDF: 1176.6/23

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

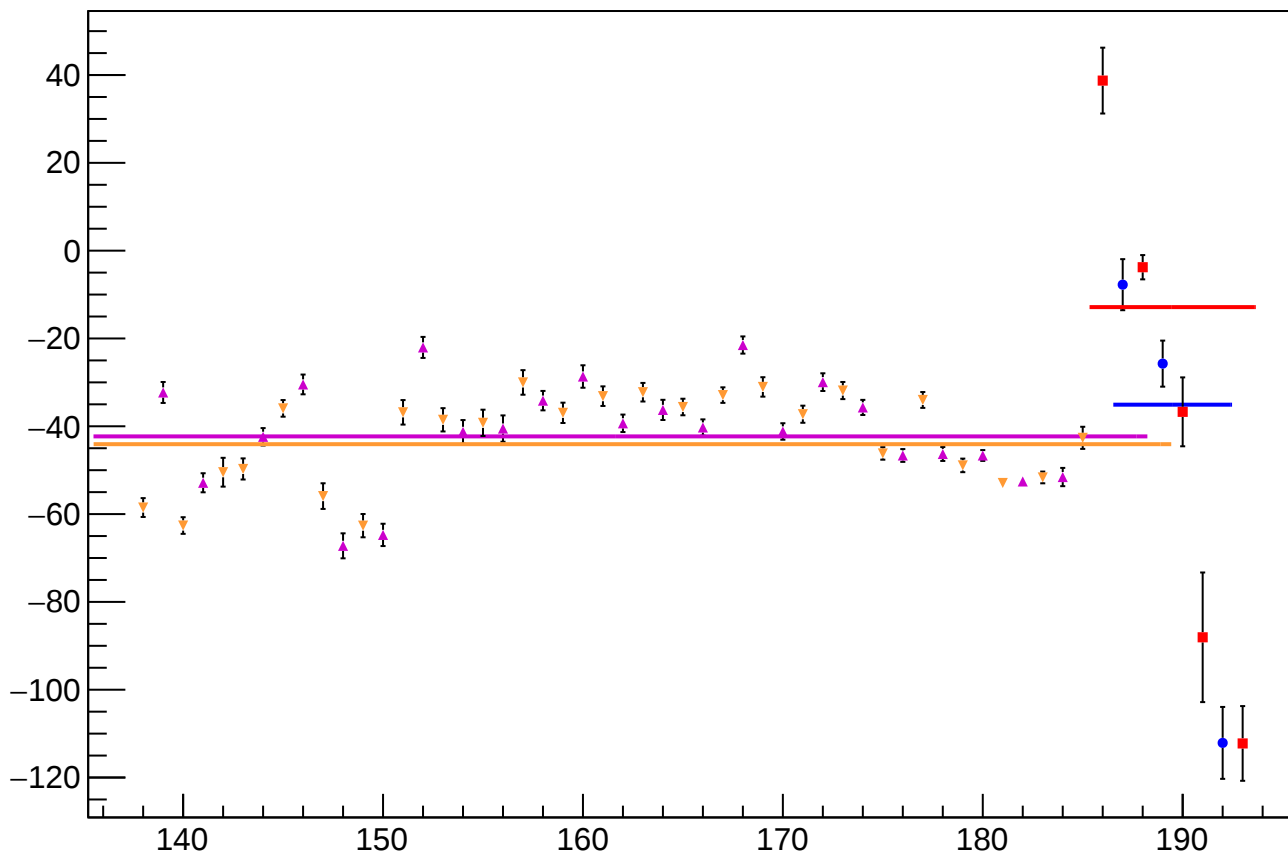
Right: 0.276 $\pm$ 0.005 χ^2 /NDF: 1842.4/43

In: 0.444 $\pm$ 0.003 χ^2 /NDF:1821.5/42

Out: 0.446 $\pm$ 0.003 χ^2 /NDF:2427.7/48

All: 0.445 $\pm$ 0.002 χ^2 /NDF: 4249.5/91

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.080 ± 3.517 χ^2/NDF : 113.7/2

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -12.858 ± 2.336 χ^2/NDF : 229.8/4

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

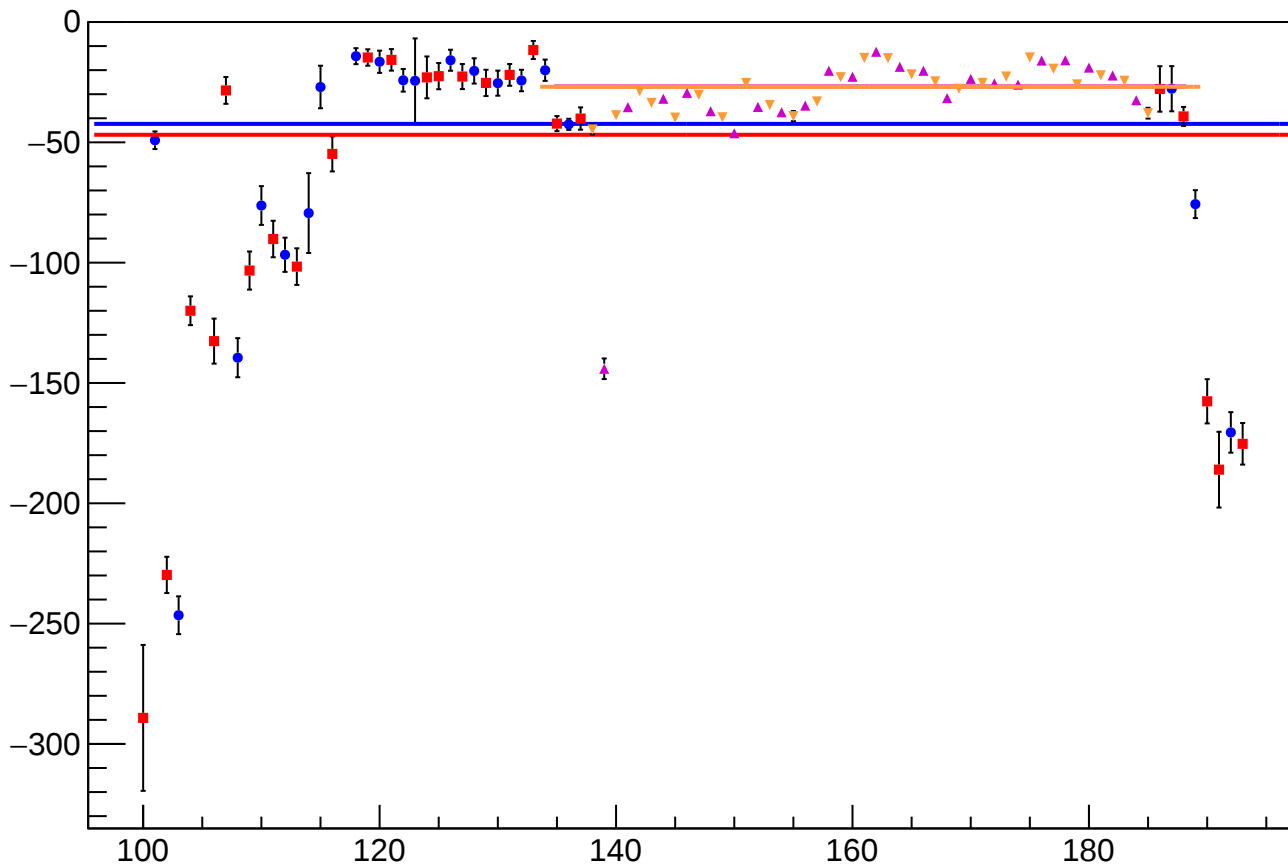
Right: -19.662 ± 1.946 χ^2/NDF : 371.2/7

In: -42.212 ± 0.397 χ^2/NDF : 758.5/25

Out: -43.237 ± 0.383 χ^2/NDF : 1036.1/29

All: -42.742 ± 0.276 χ^2/NDF : 1798.0/55

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -42.333 ± 1.110 $\chi^2/\text{NDF}: 1398.2/19$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -46.858 ± 1.128 $\chi^2/\text{NDF}: 1809.9/23$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

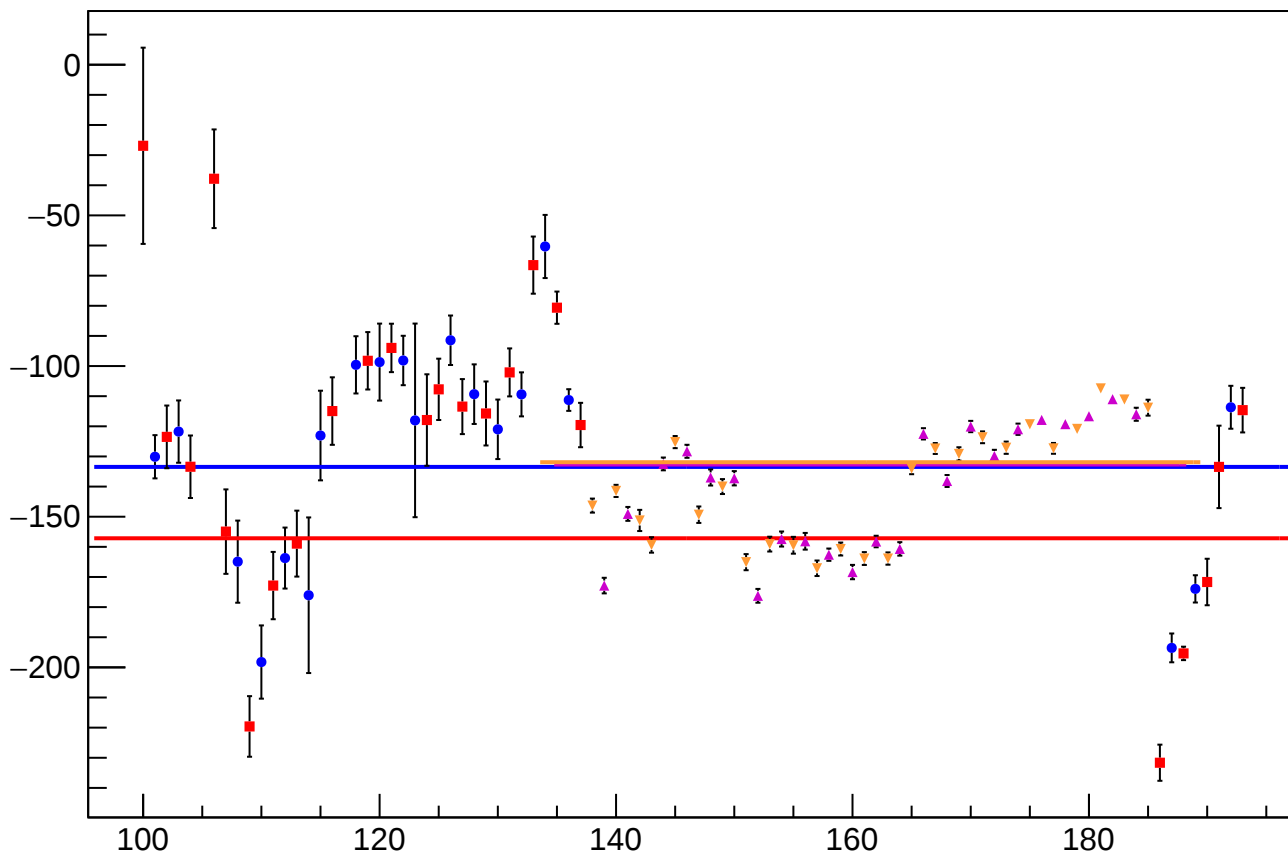
Right: -44.559 ± 0.791 $\chi^2/\text{NDF}: 3216.3/43$

In: -28.012 ± 0.313 $\chi^2/\text{NDF}: 2973.7/42$

Out: -28.356 ± 0.305 $\chi^2/\text{NDF}: 2731.0/48$

All: -28.189 ± 0.218 $\chi^2/\text{NDF}: 5705.3/91$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -133.471 $\pm$ 1.708 χ^2 /NDF: 463.4/19

Left Out: -131.912 $\pm$ 0.391 χ^2 /NDF:2439.3/24

Right Out: -157.158 $\pm$ 1.453 χ^2 /NDF: 1165.6/23

Left In: -132.690 $\pm$ 0.399 χ^2 /NDF:2480.2/22

Left: -132.293 $\pm$ 0.280 χ^2 /NDF: 4921.5/47

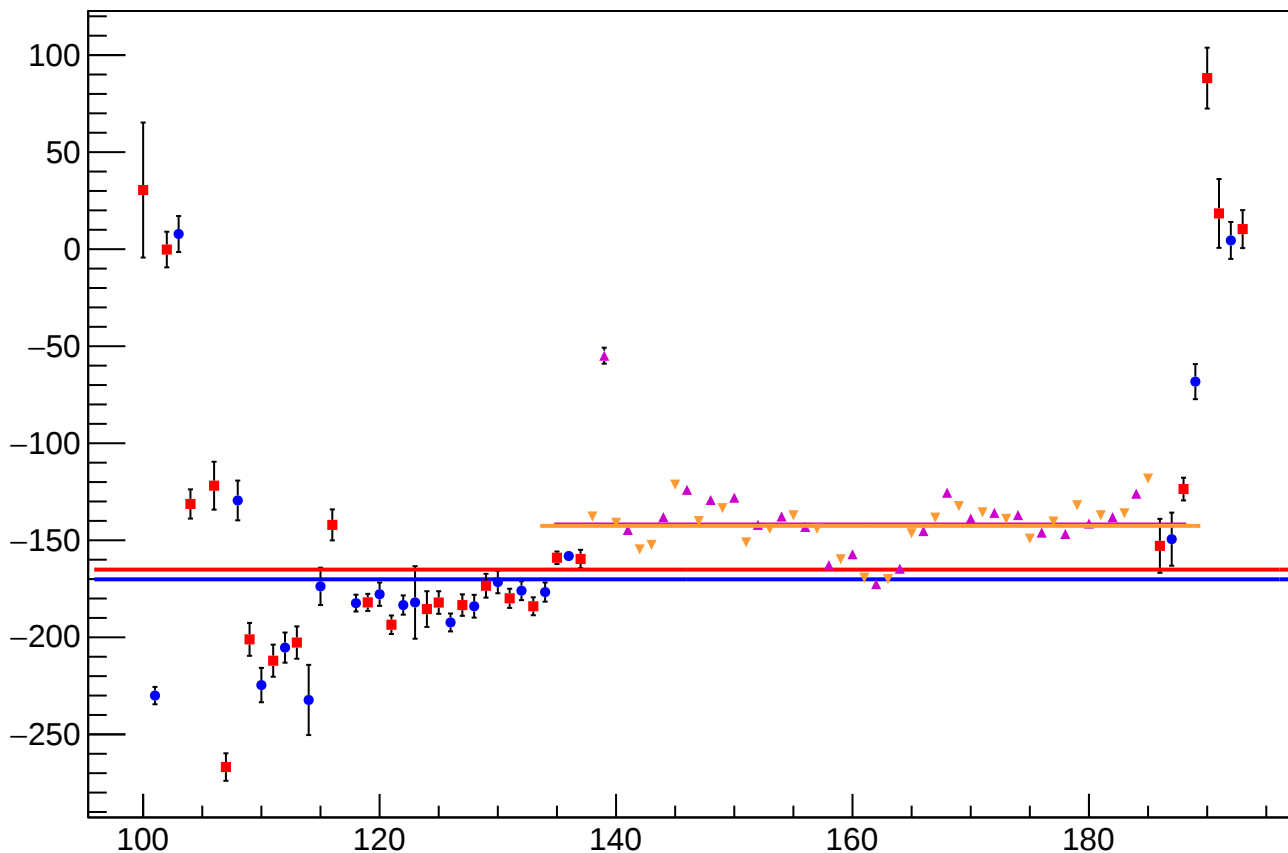
Right: -147.216 $\pm$ 1.107 χ^2 /NDF: 1740.6/43

In: -132.730 $\pm$ 0.389 χ^2 /NDF:2943.8/42

Out: -133.621 $\pm$ 0.378 χ^2 /NDF:3886.4/48

All: -133.188 $\pm$ 0.271 χ^2 /NDF: 6832.9/91

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -170.110 ± 1.250 $\chi^2/\text{NDF}: 1174.1/19$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -165.099 ± 1.298 $\chi^2/\text{NDF}: 1518.8/23$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

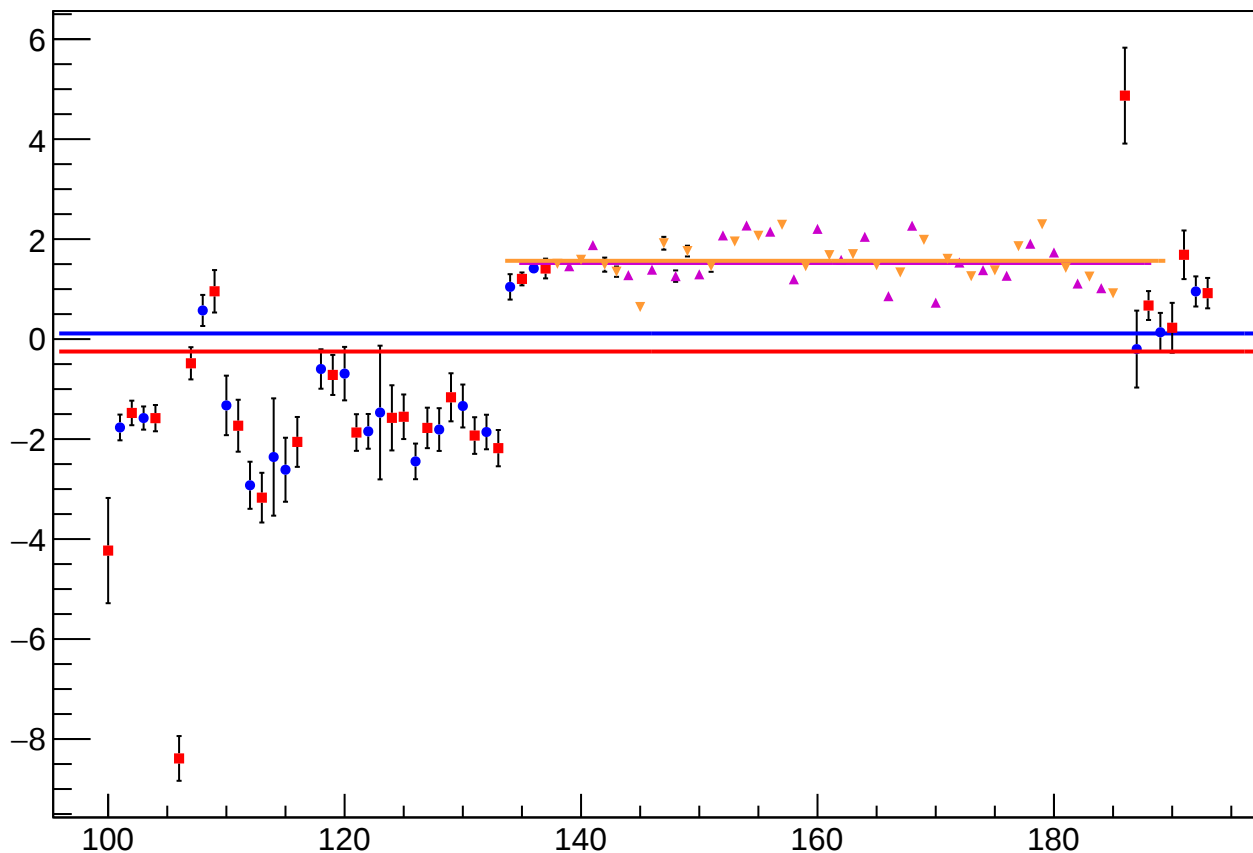
Right: -167.699 ± 0.900 $\chi^2/\text{NDF}: 2700.7/43$

In: -144.063 ± 0.349 $\chi^2/\text{NDF}: 3189.5/42$

Out: -144.125 ± 0.342 $\chi^2/\text{NDF}: 2947.2/48$

All: -144.094 ± 0.244 $\chi^2/\text{NDF}: 6136.7/91$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 ± 0.064 χ^2/NDF : 533.5/19

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: -0.248 ± 0.066 χ^2/NDF : 828.7/23

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

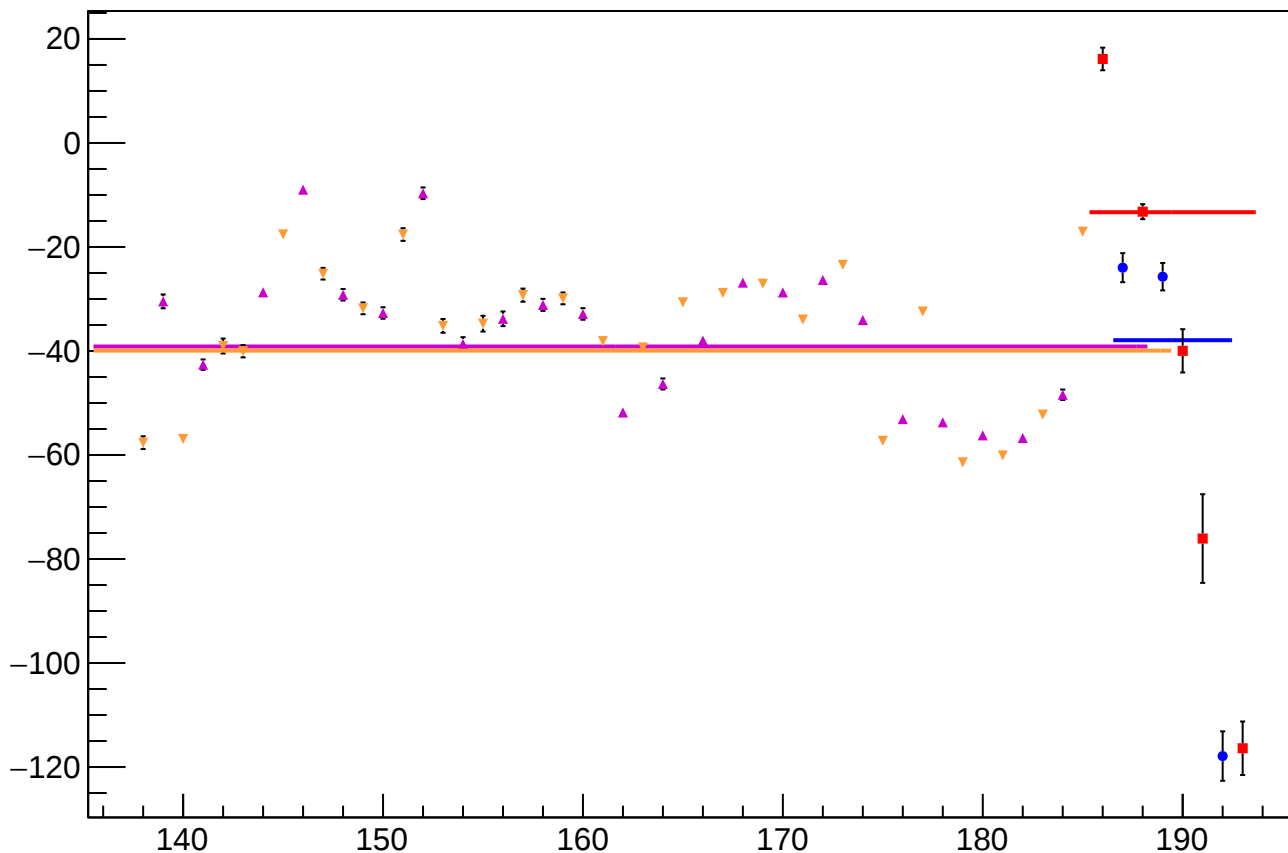
Right: -0.063 ± 0.046 χ^2/NDF : 1377.5/43

In: 1.436 ± 0.016 χ^2/NDF : 1721.5/42

Out: 1.464 ± 0.016 χ^2/NDF : 2080.8/48

All: 1.450 ± 0.011 χ^2/NDF : 3803.8/91

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



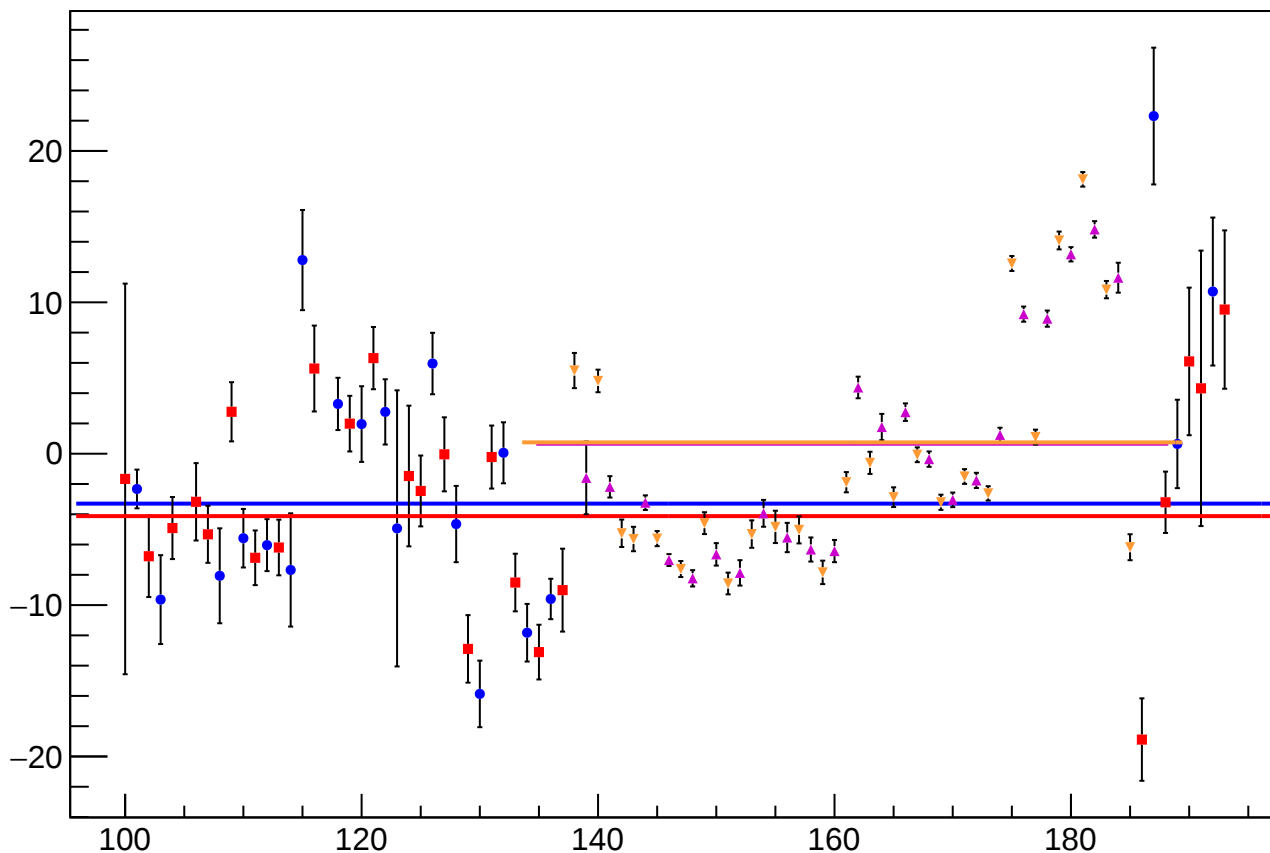
Right In: -37.927 ± 1.779 $\chi^2/\text{NDF}: 329.3/2$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -13.315 ± 1.115 $\chi^2/\text{NDF}: 680.4/4$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -20.258 ± 0.945 $\chi^2/\text{NDF}: 1147.1/7$

In: -39.128 ± 0.154 $\chi^2/\text{NDF}: 8864.3/25$
 Out: -39.442 ± 0.152 $\chi^2/\text{NDF}: 11045.9/29$

All: -39.287 ± 0.108 $\chi^2/\text{NDF}: 19912.3/55$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.297 ± 0.487 $\chi^2/\text{NDF}: 204.4/19$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -4.123 ± 0.479 $\chi^2/\text{NDF}: 163.8/23$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

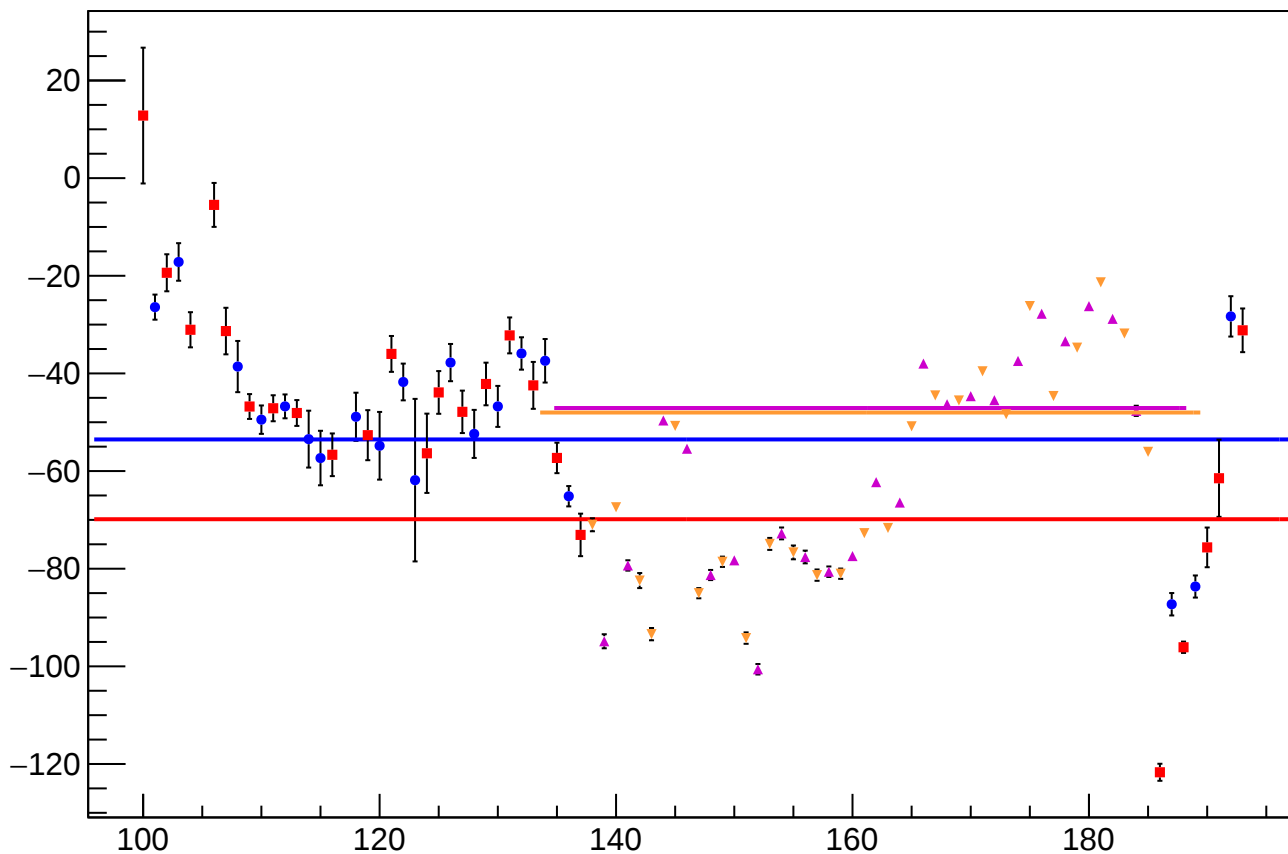
Right: -3.717 ± 0.342 $\chi^2/\text{NDF}: 369.7/43$

In: 0.418 ± 0.120 $\chi^2/\text{NDF}: 3604.3/42$

Out: 0.443 ± 0.120 $\chi^2/\text{NDF}: 4231.5/48$

All: 0.430 ± 0.085 $\chi^2/\text{NDF}: 7835.8/91$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.522 $\pm$ 0.762 χ^2 /NDF: 752.0/19

Left Out: -48.008 $\pm$ 0.155 χ^2 /NDF:16950.0/24

Right Out: -69.865 $\pm$ 0.633 χ^2 /NDF: 2656.7/23

Left In: -47.085 $\pm$ 0.155 χ^2 /NDF:15515.2/22

Left: -47.548 $\pm$ 0.110 χ^2 /NDF: 32482.9/47

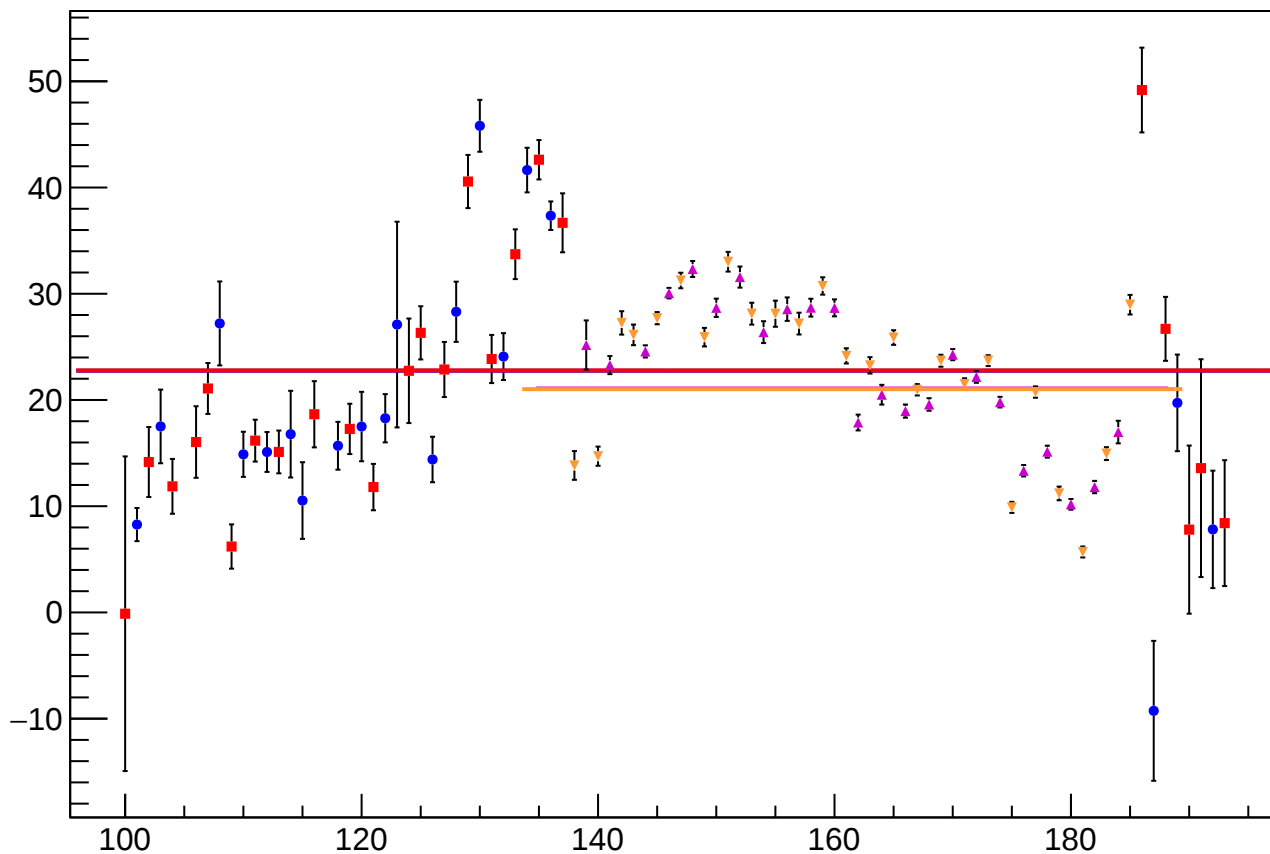
Right: -63.191 $\pm$ 0.487 χ^2 /NDF: 3680.5/43

In: -47.341 $\pm$ 0.152 χ^2 /NDF:16335.7/42

Out: -49.237 $\pm$ 0.150 χ^2 /NDF:20730.2/48

All: -48.302 $\pm$ 0.107 χ^2 /NDF: 37144.5/91

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.755 $\pm$ 0.551 χ^2 /NDF: 488.9/19

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.783 $\pm$ 0.553 χ^2 /NDF: 422.7/23

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

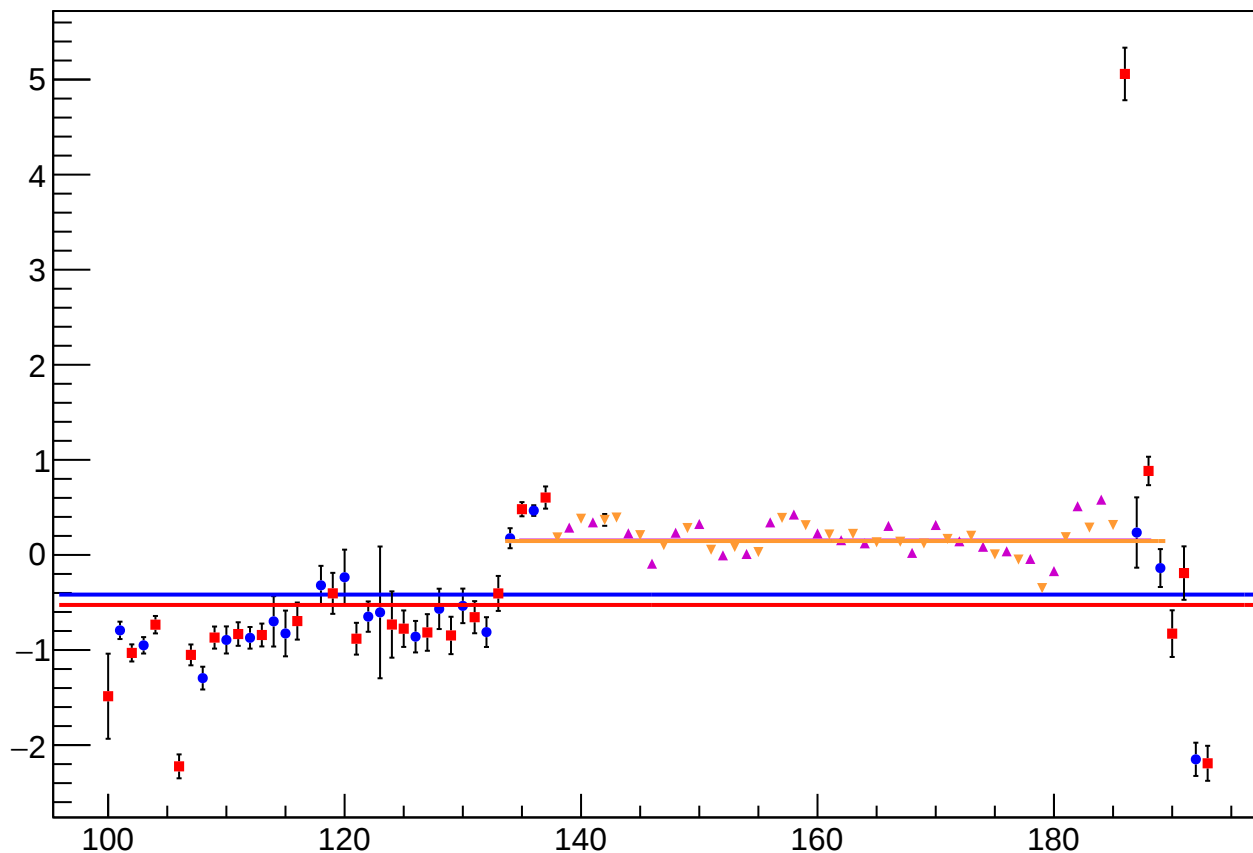
Right: 22.769 $\pm$ 0.390 χ^2 /NDF: 911.6/43

In: 21.180 $\pm$ 0.135 χ^2 /NDF:2670.8/42

Out: 21.124 $\pm$ 0.135 χ^2 /NDF:3231.5/48

All: 21.152 $\pm$ 0.095 χ^2 /NDF: 5902.4/91

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.417 ± 0.029 $\chi^2/\text{NDF}: 542.7/19$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.526 ± 0.029 $\chi^2/\text{NDF}: 1139.9/23$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

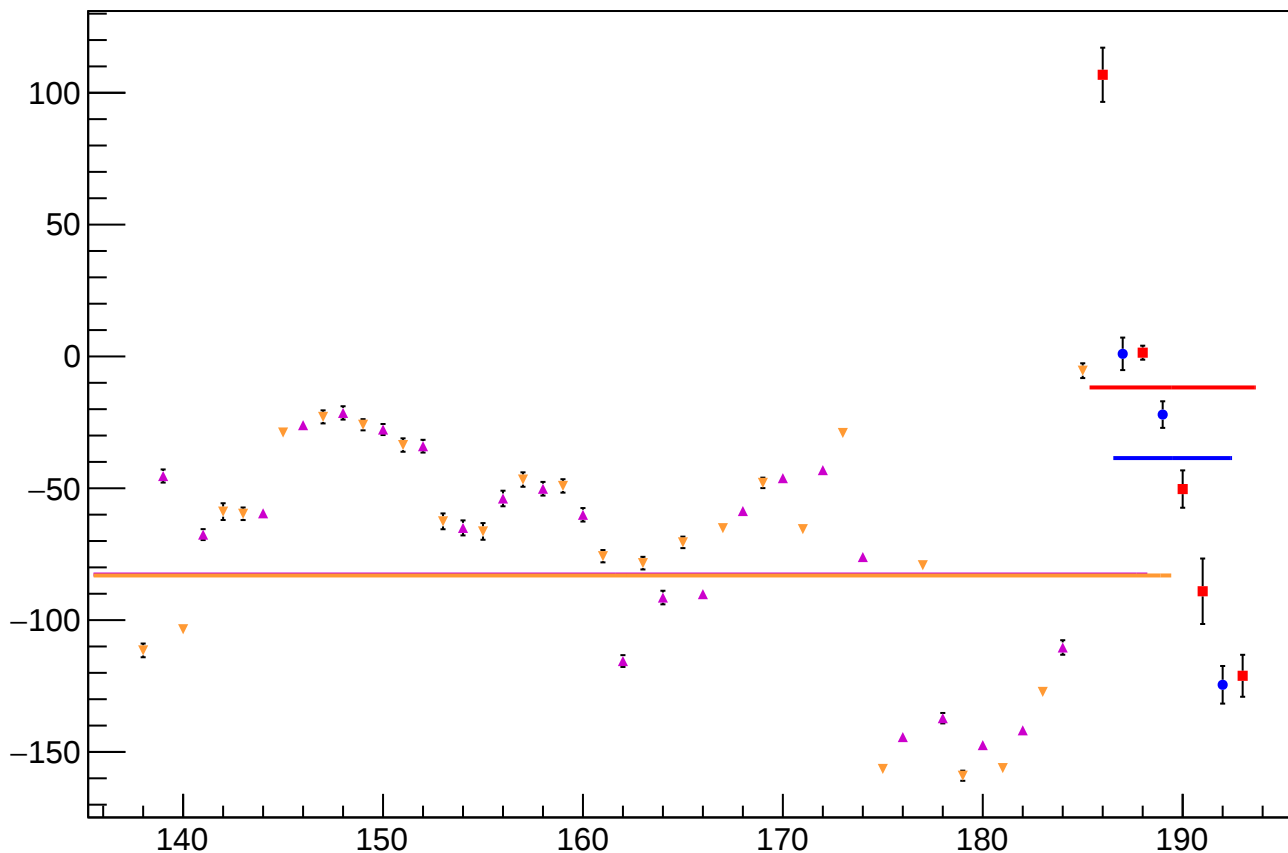
Right: -0.473 ± 0.021 $\chi^2/\text{NDF}: 1689.7/43$

In: 0.125 ± 0.006 $\chi^2/\text{NDF}: 1771.3/42$

Out: 0.115 ± 0.006 $\chi^2/\text{NDF}: 2271.4/48$

All: 0.120 ± 0.004 $\chi^2/\text{NDF}: 4044.0/91$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.546 ± 3.424 χ^2/NDF : 197.1/2

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -11.759 ± 2.272 χ^2/NDF : 414.9/4

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

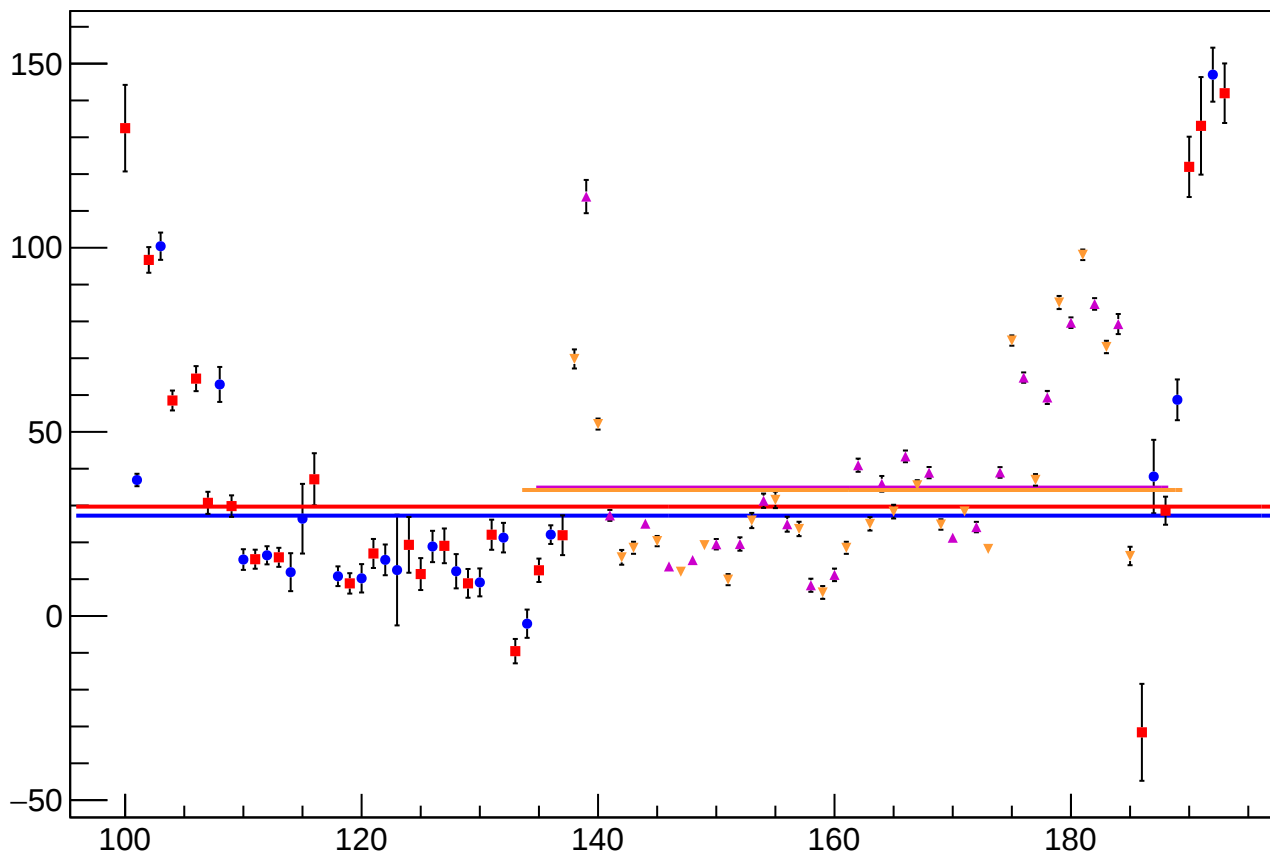
Right: -19.947 ± 1.893 χ^2/NDF : 654.5/7

In: -82.071 ± 0.412 χ^2/NDF : 11202.4/25

Out: -80.858 ± 0.400 χ^2/NDF : 15186.8/29

All: -81.446 ± 0.287 χ^2/NDF : 26393.7/55

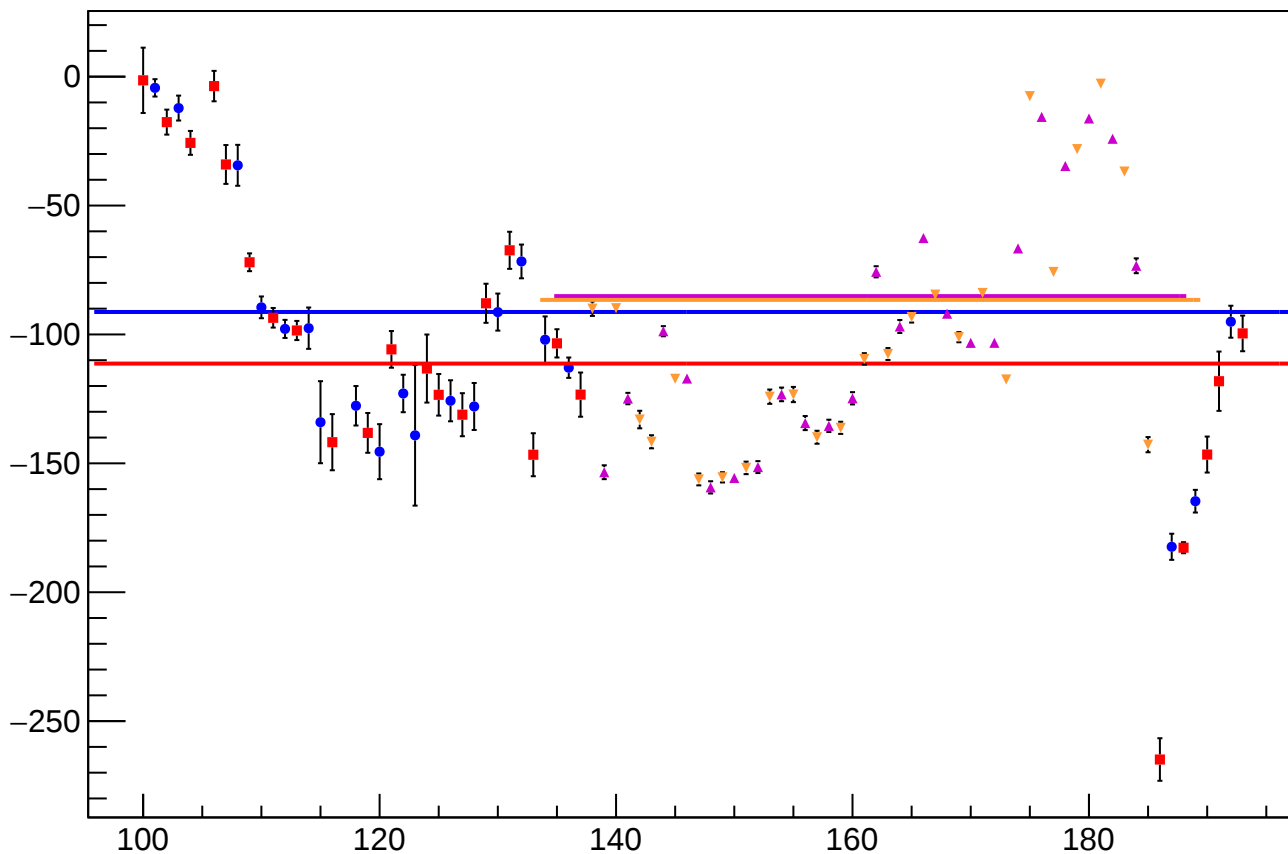
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 27.254+/-0.792 χ^2 /NDF: 993.9/19
 Left Out: 34.219+/-0.320 χ^2 /NDF:6192.6/24
 Right Out: 29.704+/-0.783 χ^2 /NDF: 1422.8/23
 Left In: 34.870+/-0.329 χ^2 /NDF:4716.1/22

Left: 34.535+/-0.230 χ^2 /NDF: 10910.7/47
 Right: 28.493+/-0.557 χ^2 /NDF: 2421.5/43
 In: 33.747+/-0.304 χ^2 /NDF:5788.9/42
 Out: 33.572+/-0.296 χ^2 /NDF:7643.8/48
 All: 33.657+/-0.212 χ^2 /NDF: 13432.9/91

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -91.285 ± 1.277 $\chi^2/\text{NDF}: 1744.5/19$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -111.306 ± 1.100 $\chi^2/\text{NDF}: 2971.8/23$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

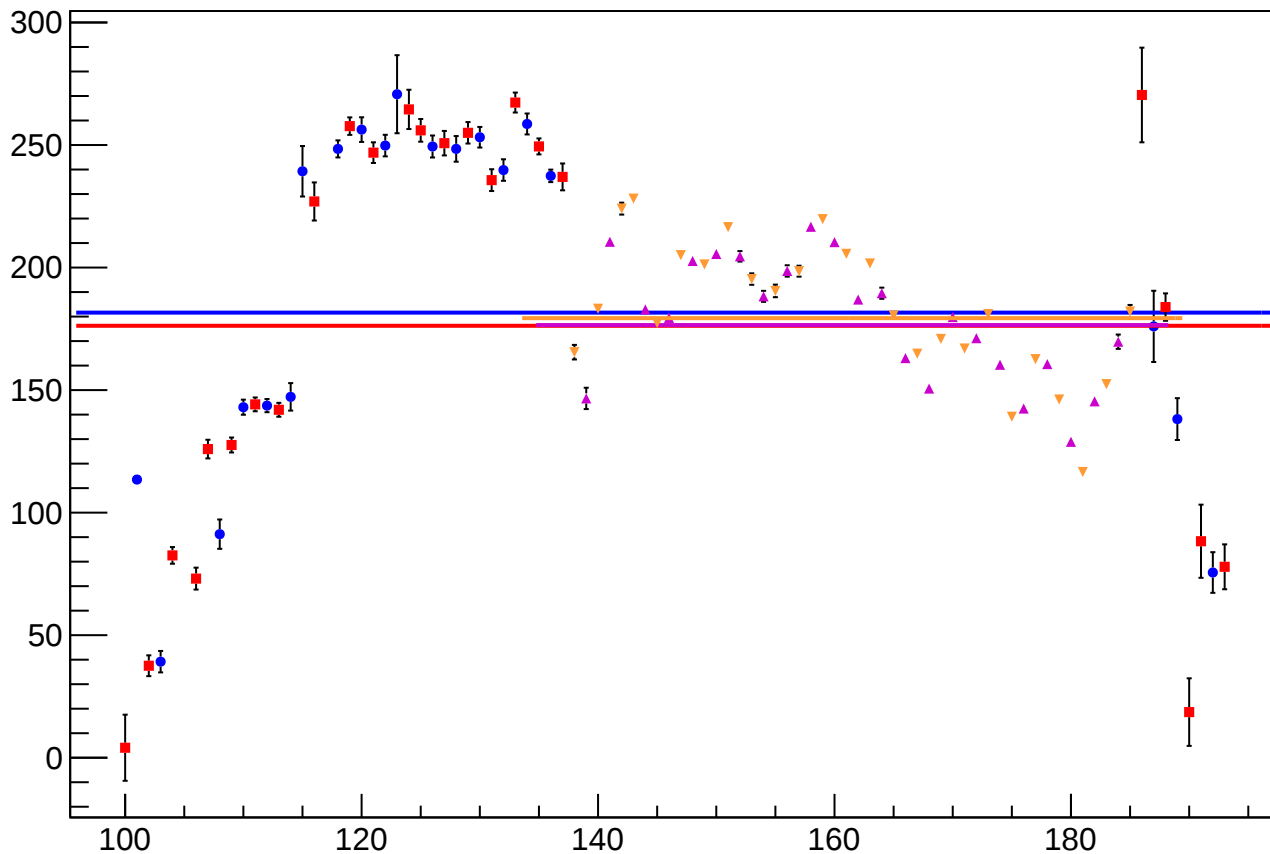
Right: -102.776 ± 0.833 $\chi^2/\text{NDF}: 4857.4/43$

In: -85.722 ± 0.395 $\chi^2/\text{NDF}: 14606.7/42$

Out: -89.589 ± 0.383 $\chi^2/\text{NDF}: 17931.0/48$

All: -87.714 ± 0.275 $\chi^2/\text{NDF}: 32587.3/91$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 181.616 $\pm$ 0.908 χ^2 /NDF: 5511.7/19

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 176.243 $\pm$ 0.904 χ^2 /NDF: 6645.9/23

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

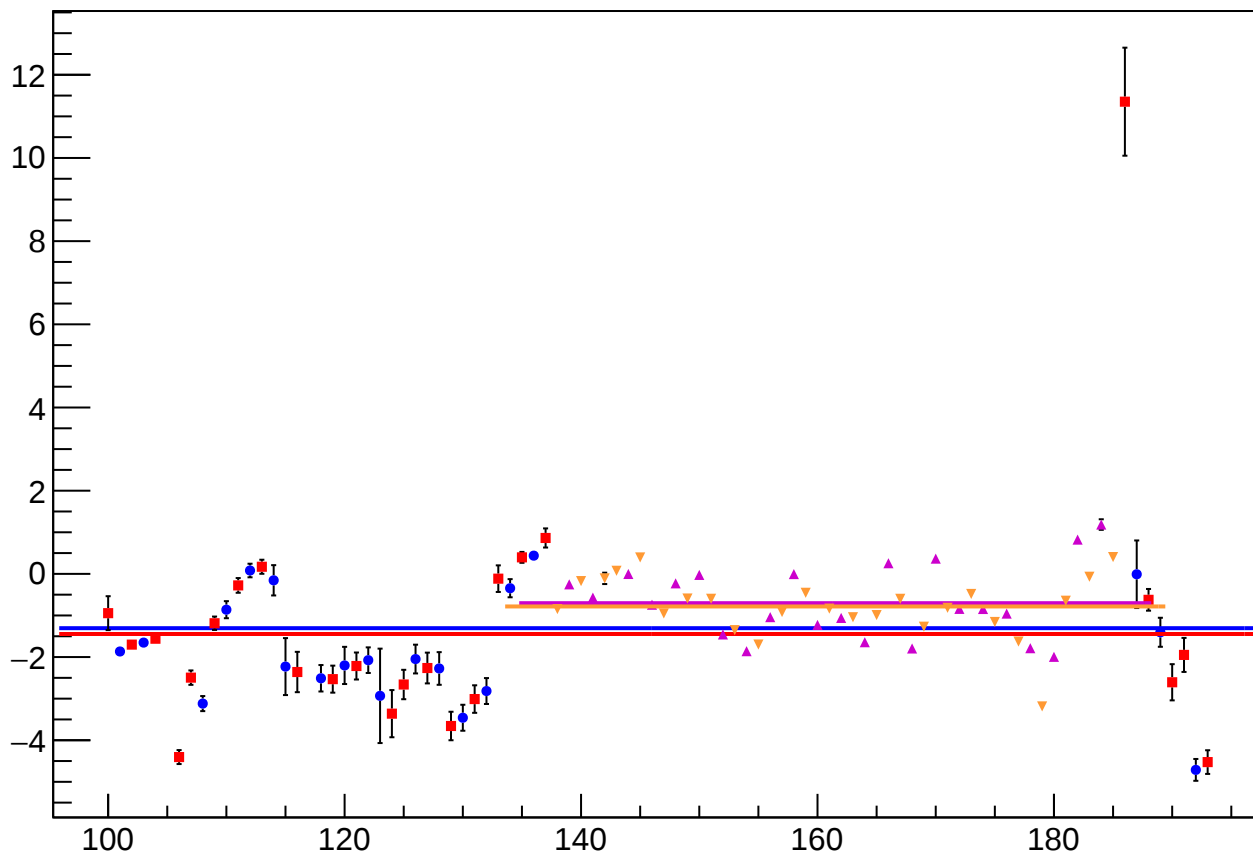
Right: 178.917 $\pm$ 0.640 χ^2 /NDF: 12175.2/43

In: 177.259 $\pm$ 0.343 χ^2 /NDF: 9964.5/42

Out: 178.928 $\pm$ 0.336 χ^2 /NDF: 12638.4/48

All: 178.112 $\pm$ 0.240 χ^2 /NDF: 22615.0/91

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.306 ± 0.047 χ^2/NDF : 797.0/19

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.446 ± 0.044 χ^2/NDF : 1153.8/23

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

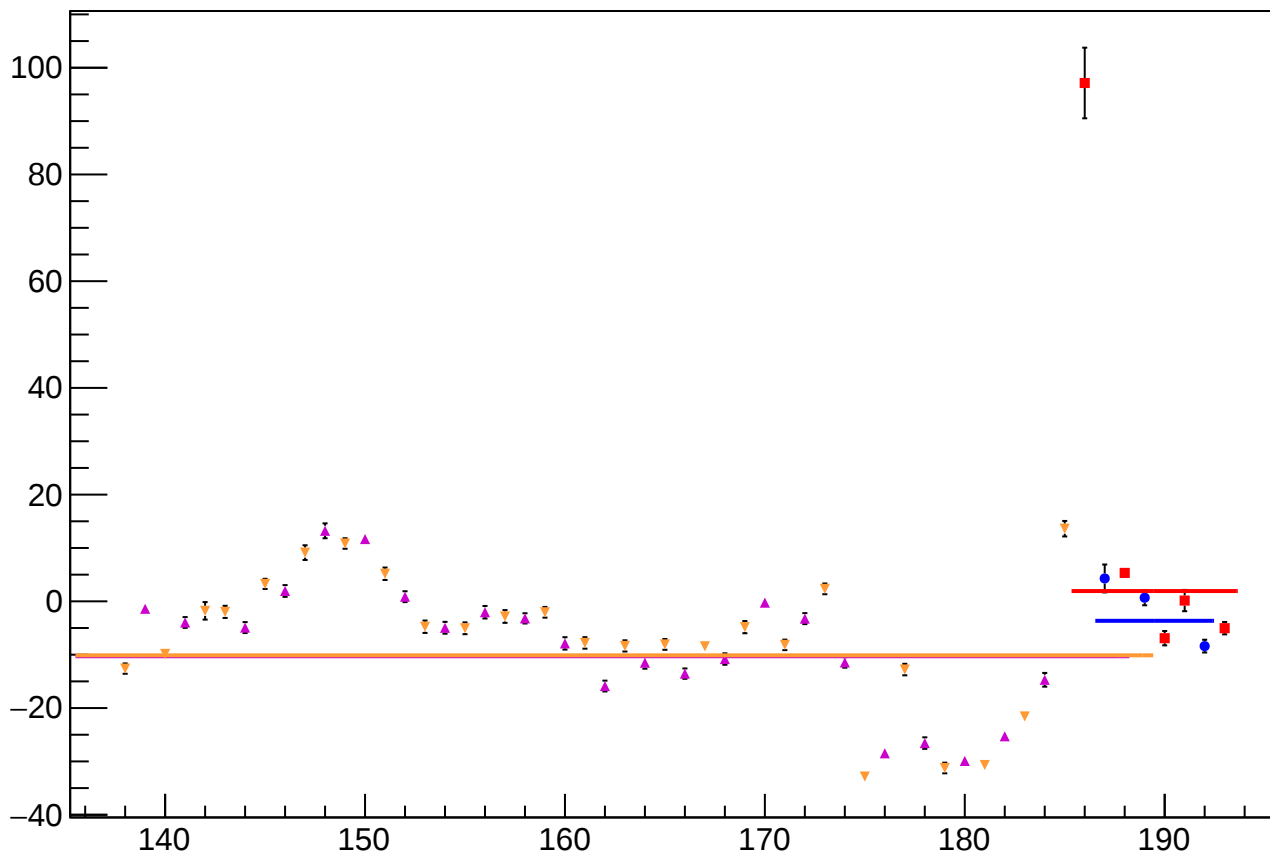
Right: -1.380 ± 0.032 χ^2/NDF : 1955.5/43

In: -0.774 ± 0.016 χ^2/NDF : 3349.9/42

Out: -0.866 ± 0.016 χ^2/NDF : 3122.9/48

All: -0.821 ± 0.011 χ^2/NDF : 6489.8/91

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.649 ± 0.863 $\chi^2/\text{NDF}: 34.2/2$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: 1.929 ± 0.499 $\chi^2/\text{NDF}: 314.9/4$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

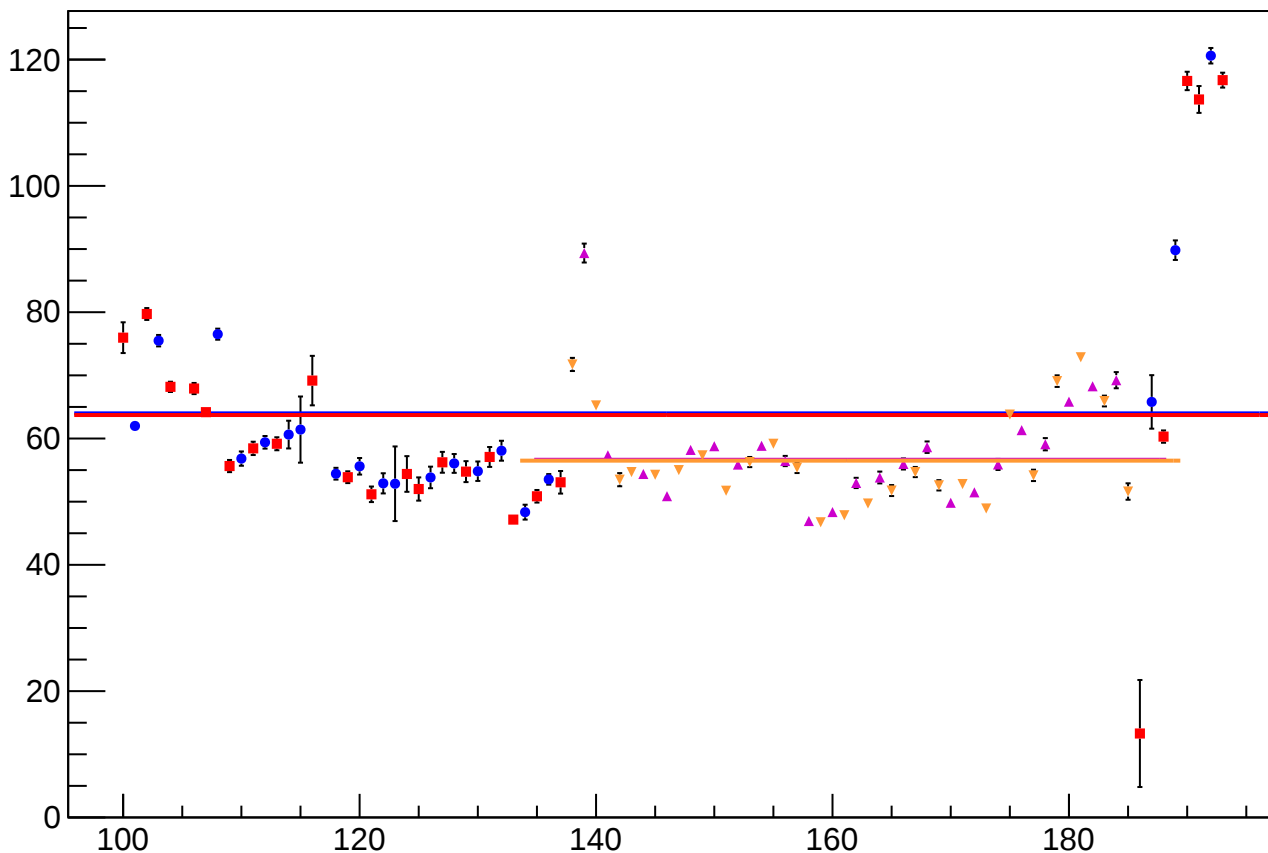
Right: 0.530 ± 0.432 $\chi^2/\text{NDF}: 380.4/7$

In: -9.934 ± 0.200 $\chi^2/\text{NDF}: 3541.3/25$

Out: -8.432 ± 0.187 $\chi^2/\text{NDF}: 4953.4/29$

All: -9.133 ± 0.136 $\chi^2/\text{NDF}: 8524.8/55$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 63.981 $\pm$ 0.254 χ^2 /NDF: 3490.1/19

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 63.720 $\pm$ 0.231 χ^2 /NDF: 5560.0/23

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

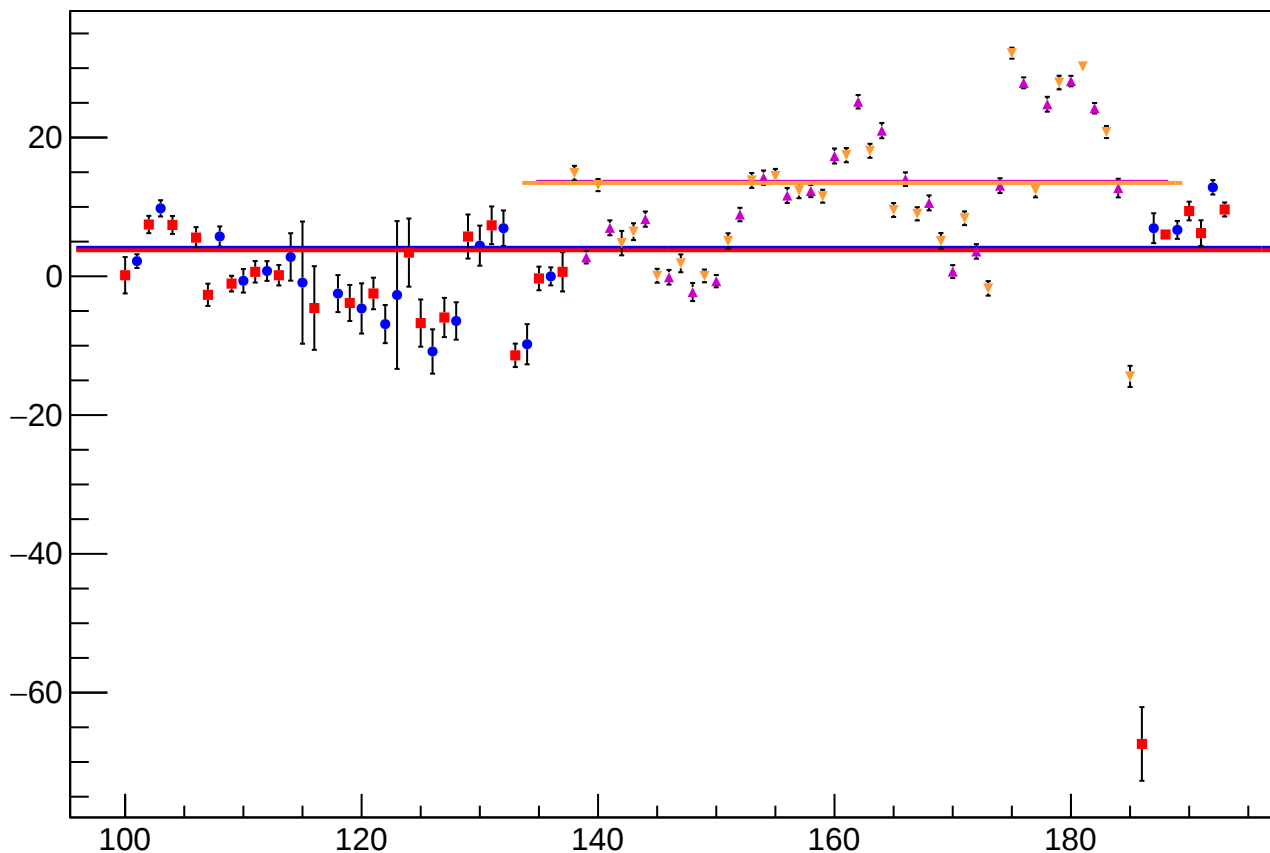
Right: 63.838 $\pm$ 0.171 χ^2 /NDF: 9050.6/43

In: 58.823 $\pm$ 0.138 χ^2 /NDF:5687.5/42

Out: 58.816 $\pm$ 0.131 χ^2 /NDF:8191.8/48

All: 58.819 $\pm$ 0.095 χ^2 /NDF: 13879.3/91

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.107 ± 0.393 χ^2/NDF : 218.0/19

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 3.753 ± 0.300 χ^2/NDF : 444.6/23

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

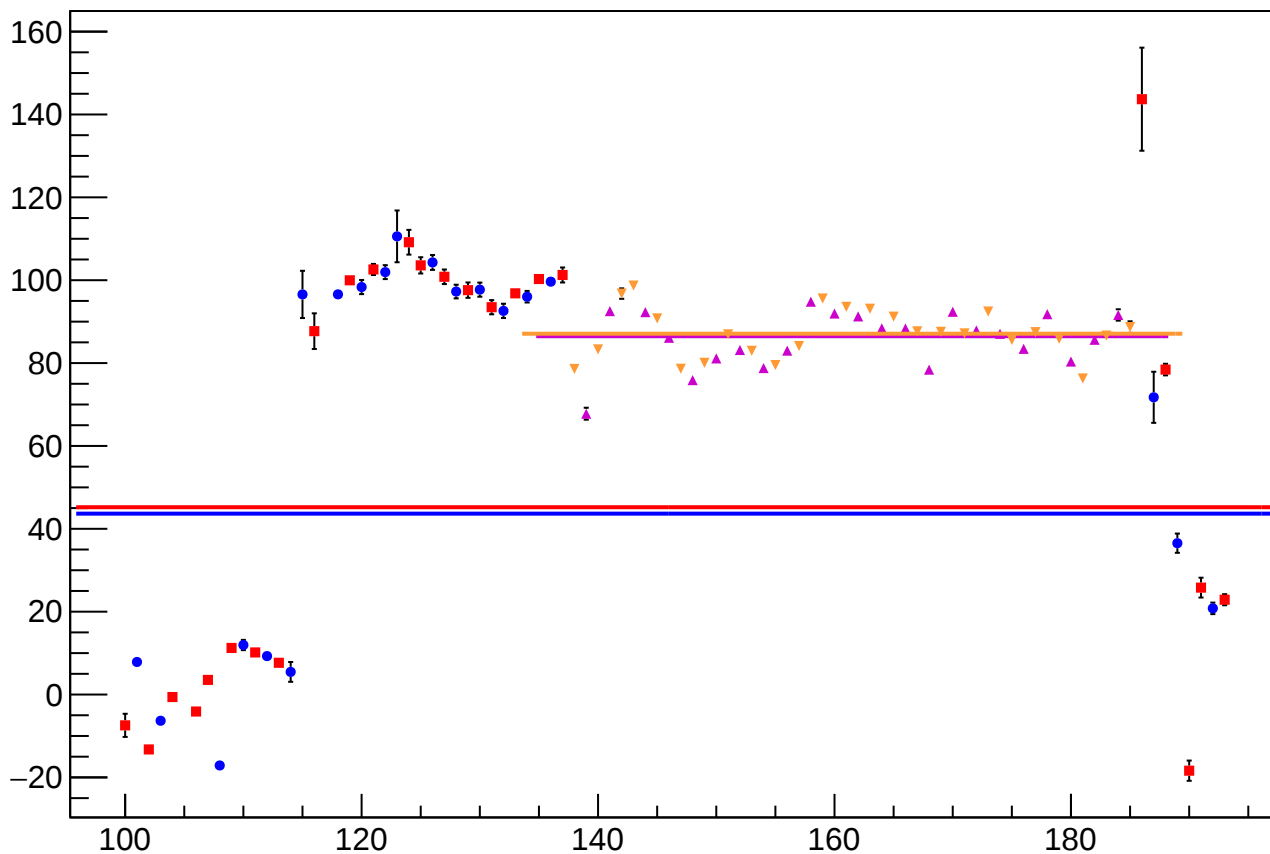
Right: 3.884 ± 0.239 χ^2/NDF : 663.1/43

In: 11.593 ± 0.181 χ^2/NDF : 2994.6/42

Out: 10.445 ± 0.167 χ^2/NDF : 3902.3/48

All: 10.973 ± 0.123 χ^2/NDF : 6918.5/91

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.661 $\pm$ 0.295 χ^2 /NDF: 25015.5/19

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 45.210 $\pm$ 0.274 χ^2 /NDF: 29873.2/23

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

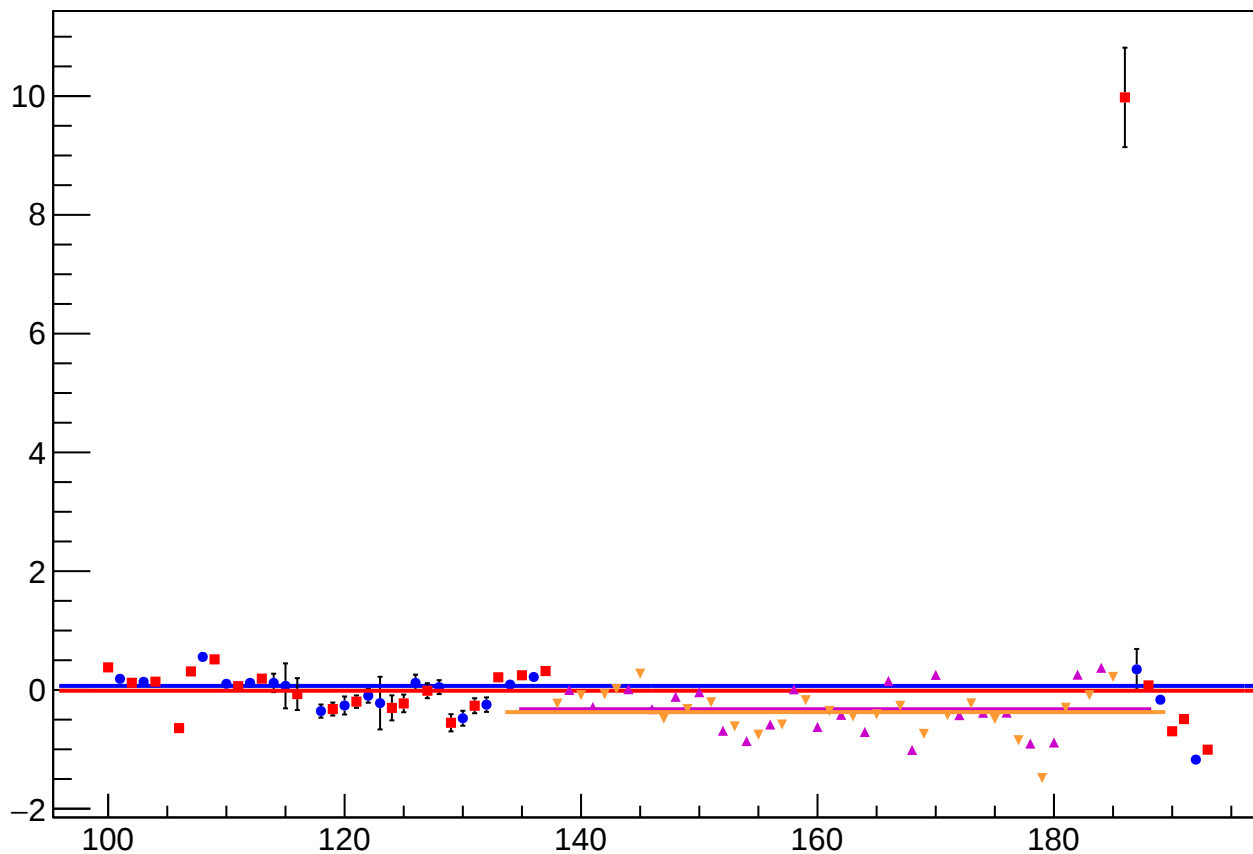
Right: 44.493 $\pm$ 0.201 χ^2 /NDF: 54903.5/43

In: 74.440 $\pm$ 0.157 χ^2 /NDF:41148.4/42

Out: 74.544 $\pm$ 0.150 χ^2 /NDF:47338.3/48

All: 74.494 $\pm$ 0.108 χ^2 /NDF: 88487.0/91

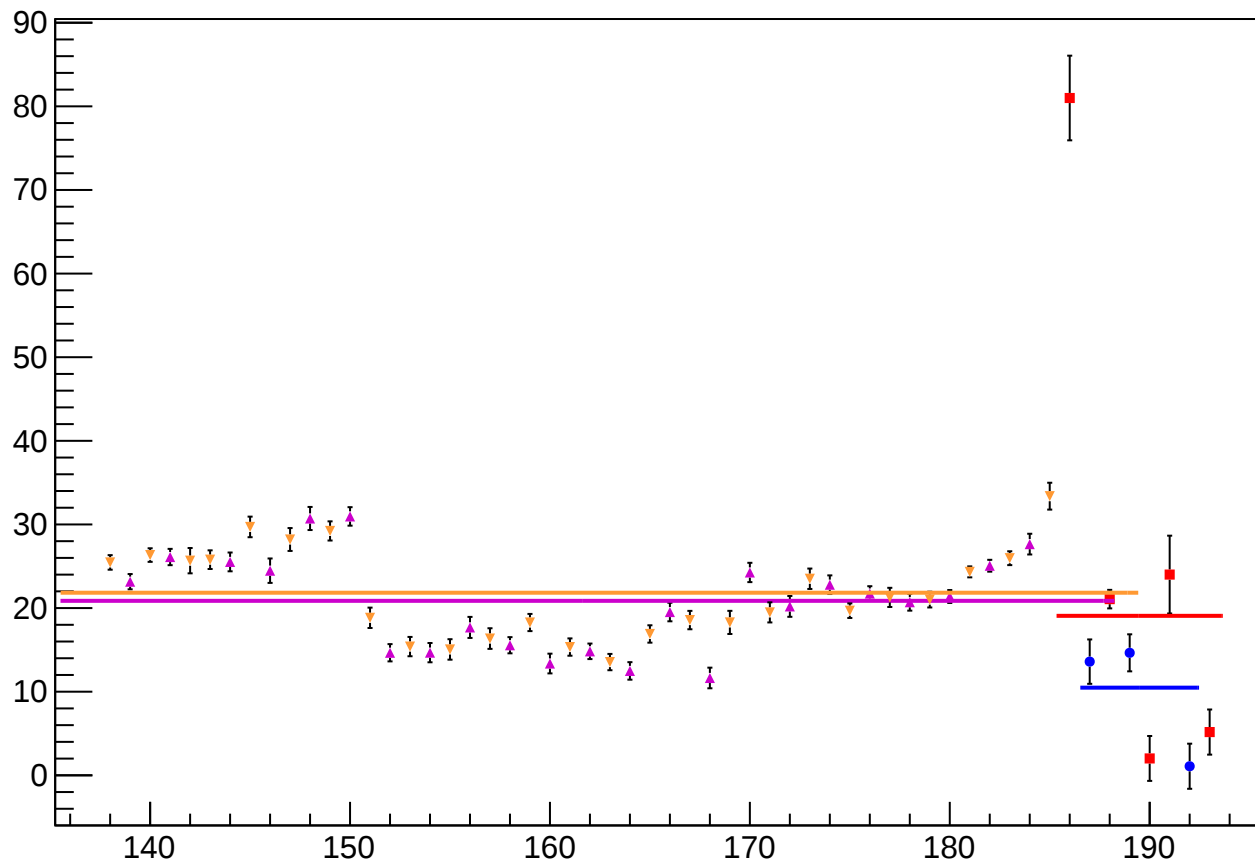
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.068 ± 0.013 $\chi^2/\text{NDF}: 1117.2/19$
 Left Out: -0.373 ± 0.008 $\chi^2/\text{NDF}: 1668.6/24$
 Right Out: -0.013 ± 0.012 $\chi^2/\text{NDF}: 1451.7/23$
 Left In: -0.325 ± 0.008 $\chi^2/\text{NDF}: 2284.1/22$

Left: -0.349 ± 0.006 $\chi^2/\text{NDF}: 3970.2/47$
 Right: 0.023 ± 0.009 $\chi^2/\text{NDF}: 2589.8/43$
 In: -0.215 ± 0.007 $\chi^2/\text{NDF}: 4041.1/42$
 Out: -0.258 ± 0.007 $\chi^2/\text{NDF}: 3750.2/48$
 All: -0.237 ± 0.005 $\chi^2/\text{NDF}: 7810.5/91$

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.483 ± 1.438 $\chi^2/\text{NDF}: 17.0/2$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 19.072 ± 0.922 $\chi^2/\text{NDF}: 220.9/4$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

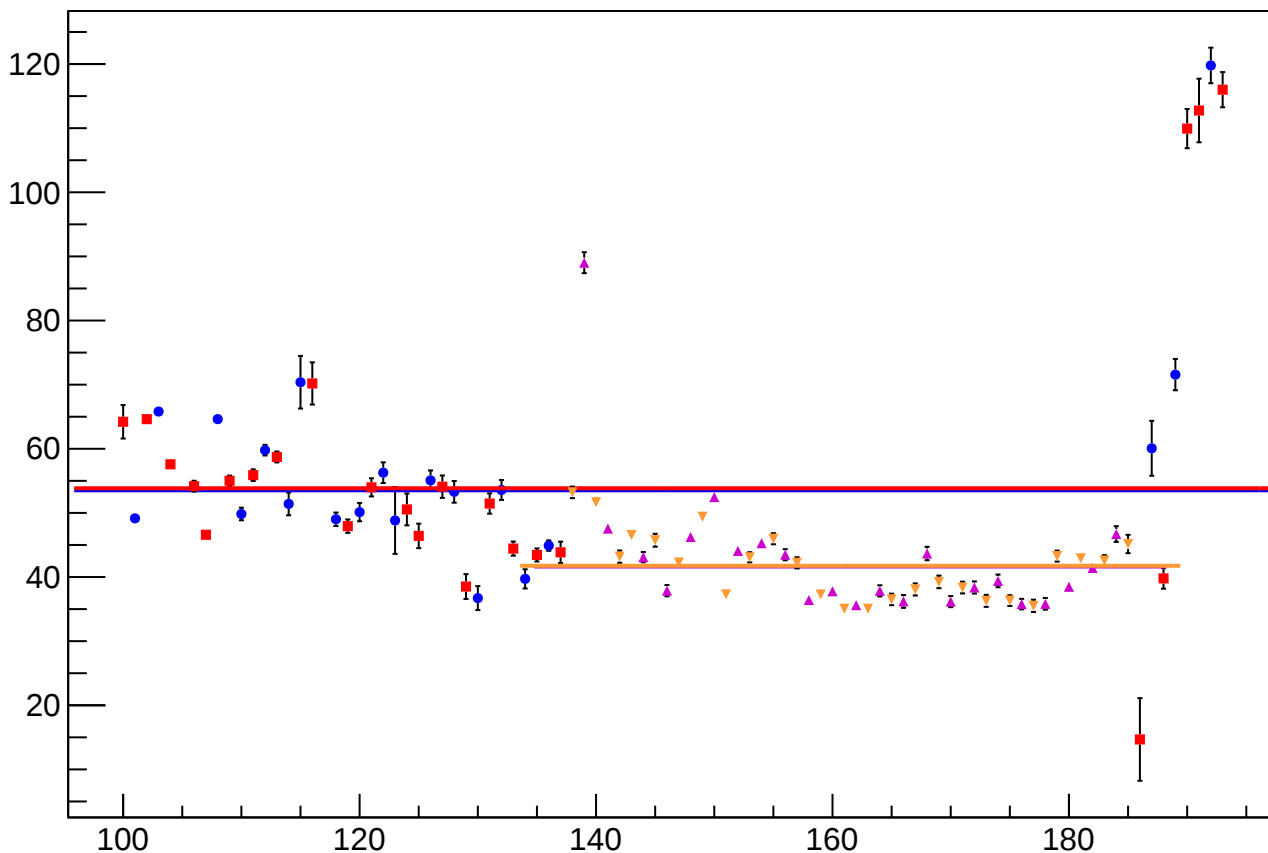
Right: 16.572 ± 0.776 $\chi^2/\text{NDF}: 263.3/7$

In: 20.635 ± 0.214 $\chi^2/\text{NDF}: 644.9/25$

Out: 21.700 ± 0.205 $\chi^2/\text{NDF}: 753.8/29$

All: 21.192 ± 0.148 $\chi^2/\text{NDF}: 1411.6/55$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.529 $\pm$ 0.209 χ^2 /NDF: 1832.5/19

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF: 1015.7/24

Right Out: 53.844 $\pm$ 0.223 χ^2 /NDF: 1986.5/23

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

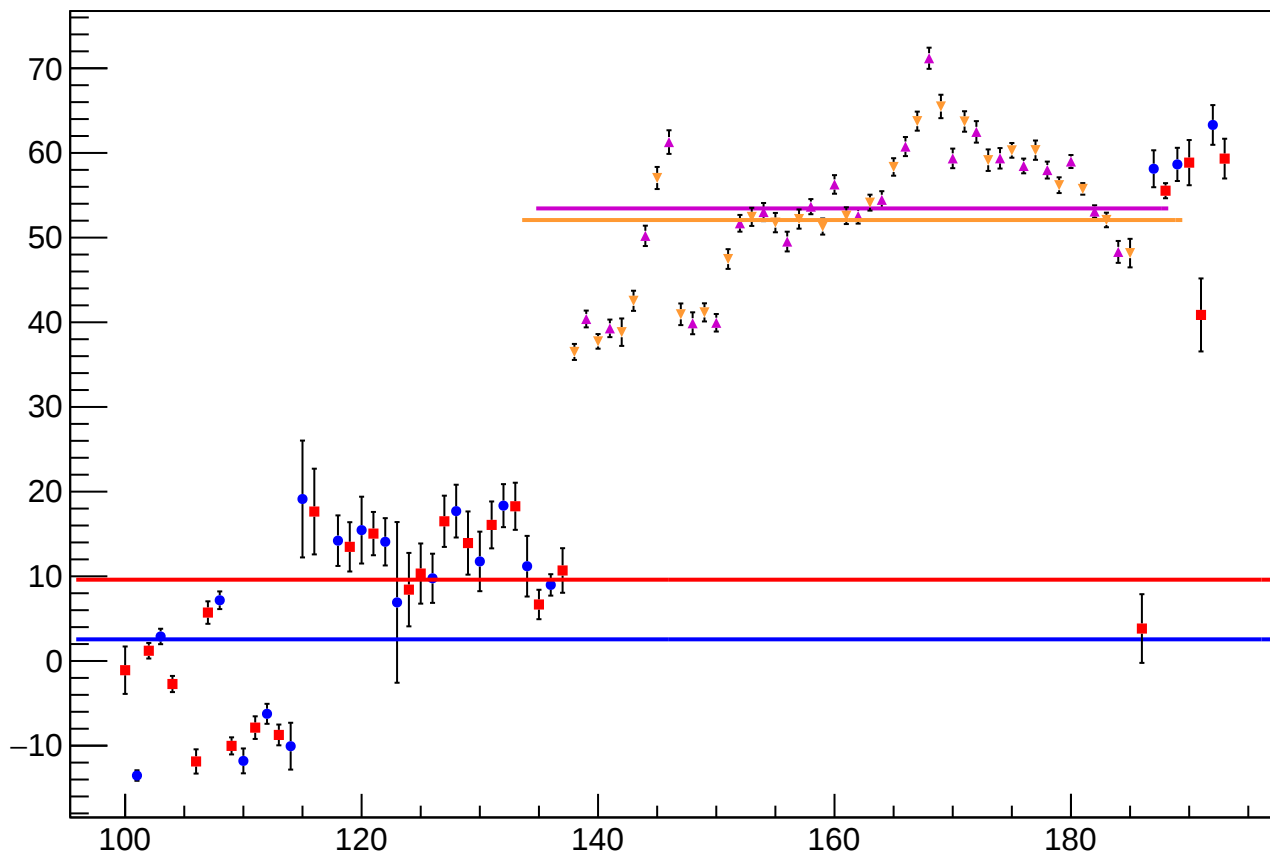
Right: 53.677 $\pm$ 0.153 χ^2 /NDF: 3820.1/43

In: 46.490 $\pm$ 0.134 χ^2 /NDF: 5351.5/42

Out: 46.048 $\pm$ 0.133 χ^2 /NDF: 4898.9/48

All: 46.268 $\pm$ 0.094 χ^2 /NDF: 10255.9/91

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.556 $\pm$ 0.350 χ^2 /NDF: 3155.5/19

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 9.602 $\pm$ 0.339 χ^2 /NDF: 4794.7/23

Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47

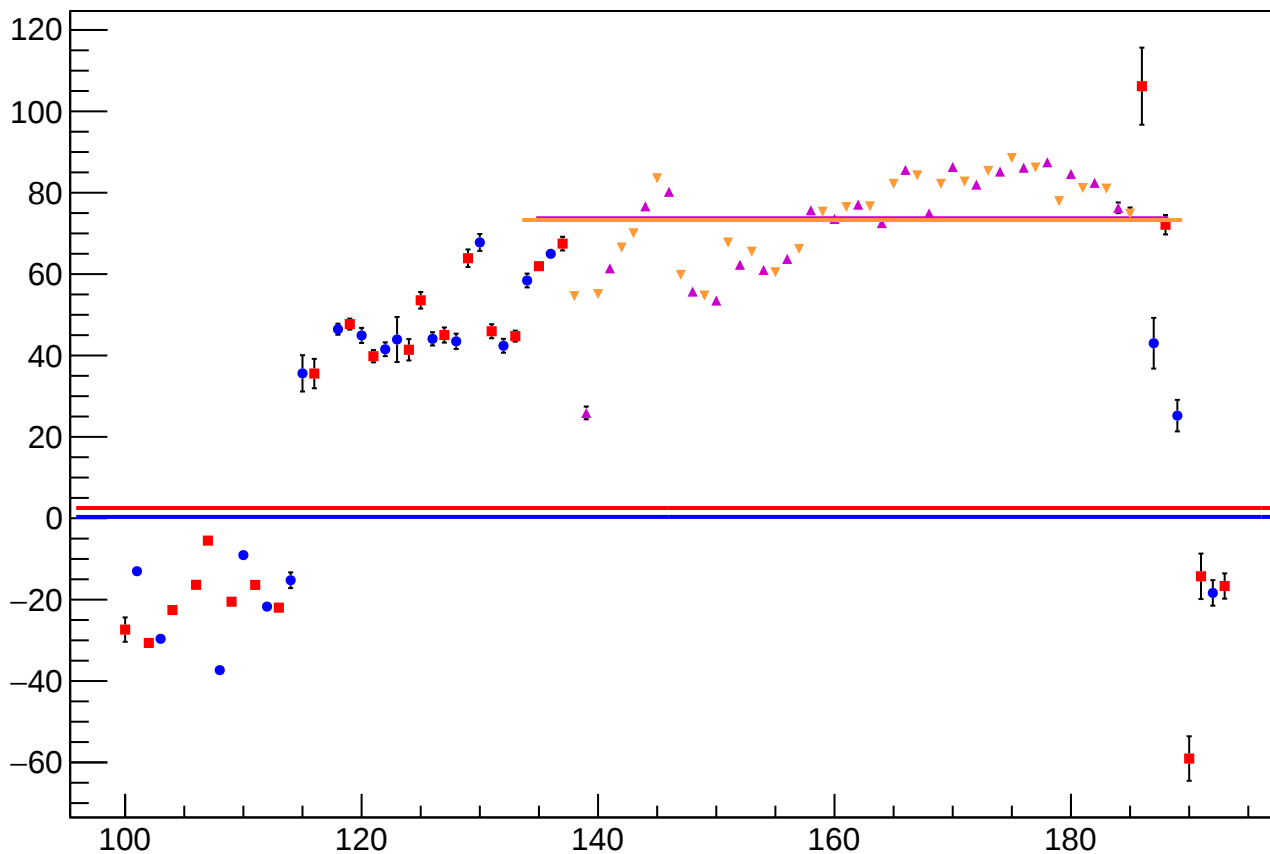
Right: 6.193 $\pm$ 0.243 χ^2 /NDF: 8159.6/43

In: 39.459 $\pm$ 0.183 χ^2 /NDF:19673.9/42

Out: 40.280 $\pm$ 0.178 χ^2 /NDF:17606.2/48

All: 39.881 $\pm$ 0.128 χ^2 /NDF: 37290.4/91

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.328 $\pm$ 0.246 χ^2 /NDF: 18343.8/19

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 2.526 $\pm$ 0.263 χ^2 /NDF: 16565.5/23

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

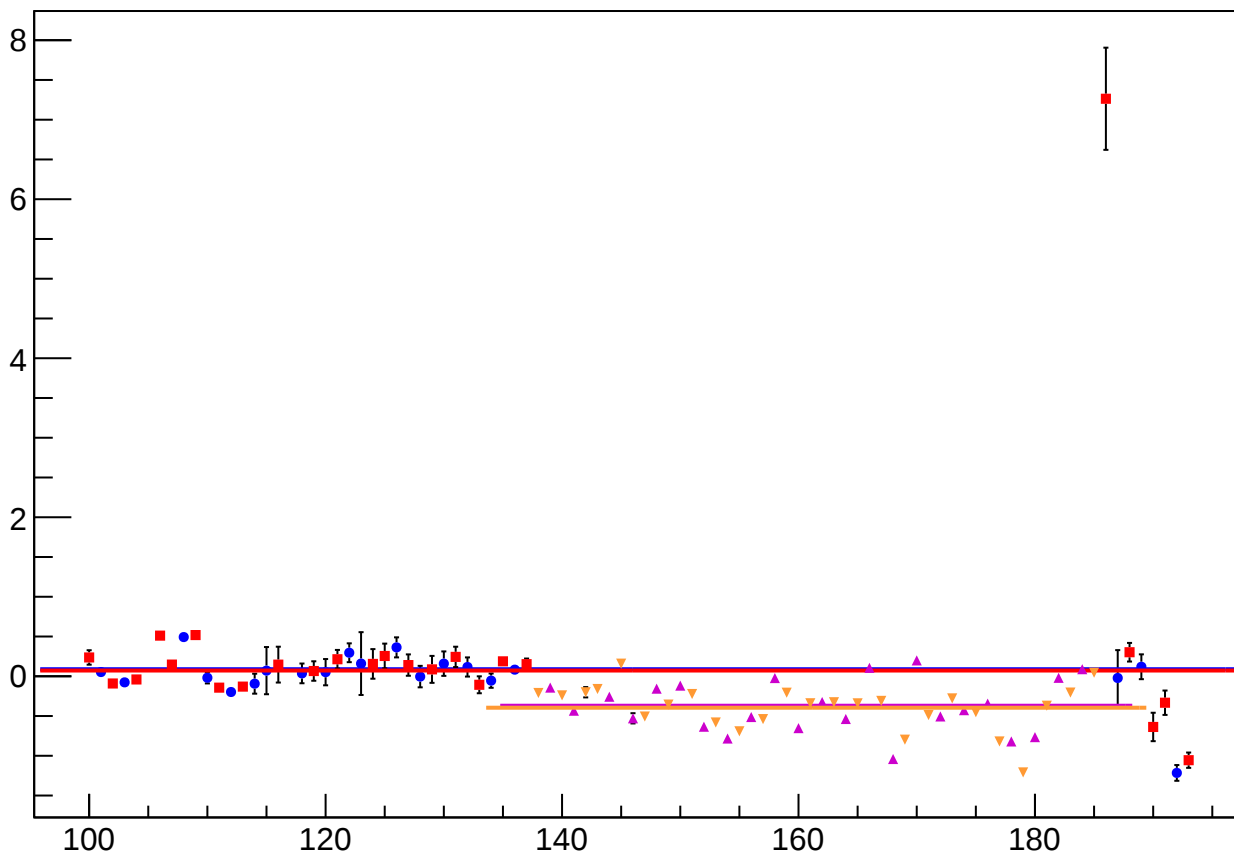
Right: 1.352 $\pm$ 0.180 χ^2 /NDF: 34946.5/43

In: 45.550 $\pm$ 0.153 χ^2 /NDF:76890.2/42

Out: 49.605 $\pm$ 0.152 χ^2 /NDF:67702.3/48

All: 47.579 $\pm$ 0.108 χ^2 /NDF: 144946.1/91

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089+/-0.011 χ^2/NDF : 576.2/19

Left Out: -0.396+/-0.009 χ^2/NDF : 950.0/24

Right Out: 0.072+/-0.011 χ^2/NDF : 681.7/23

Left In: -0.371+/-0.009 χ^2/NDF : 1313.7/22

Left: -0.383+/-0.006 χ^2/NDF : 2268.0/47

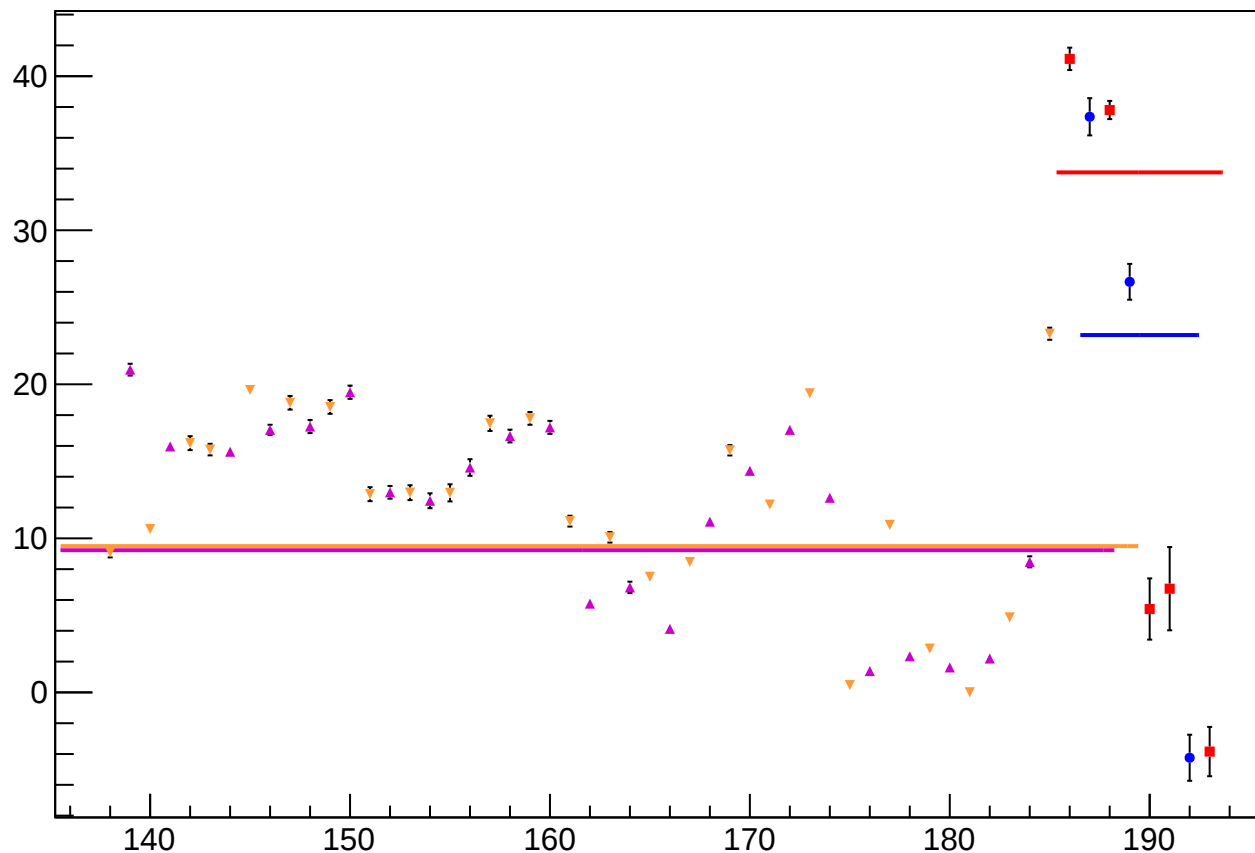
Right: 0.080+/-0.008 χ^2/NDF : 1259.1/43

In: -0.193+/-0.007 χ^2/NDF : 2968.7/42

Out: -0.216+/-0.007 χ^2/NDF : 2779.9/48

All: -0.205+/-0.005 χ^2/NDF : 5754.8/91

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 23.197 $\pm$ 0.731 χ^2 /NDF: 482.9/2

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 33.756 $\pm$ 0.425 χ^2 /NDF: 1005.0/4

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

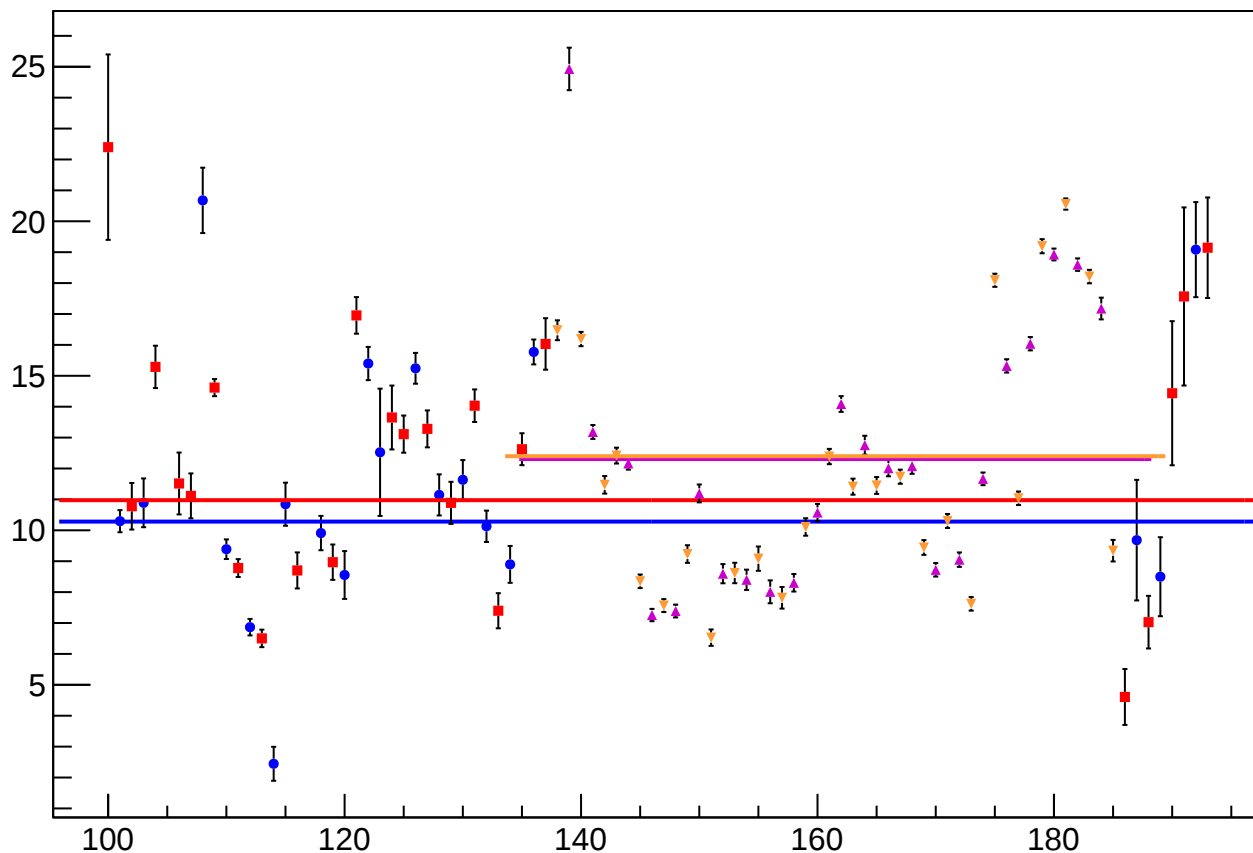
Right: 31.089 $\pm$ 0.367 χ^2 /NDF: 1643.8/7

In: 9.334 $\pm$ 0.063 χ^2 /NDF:11581.3/25

Out: 9.988 $\pm$ 0.061 χ^2 /NDF:16807.2/29

All: 9.673 $\pm$ 0.044 χ^2 /NDF: 28444.7/55

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.282 ± 0.119 $\chi^2/\text{NDF}: 901.0/19$

Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$

Right Out: 10.975 ± 0.114 $\chi^2/\text{NDF}: 921.3/23$

Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$

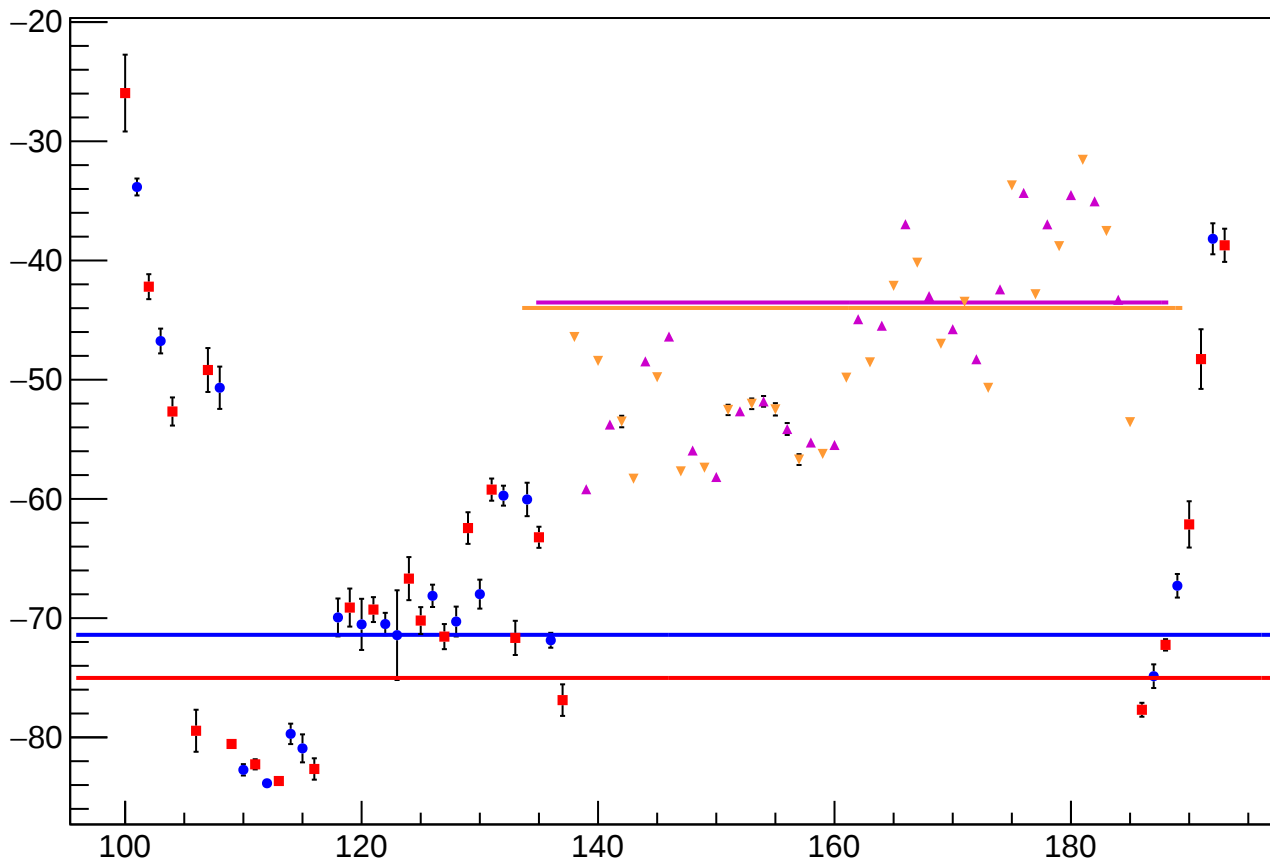
Right: 10.642 ± 0.082 $\chi^2/\text{NDF}: 1840.0/43$

In: 11.988 ± 0.047 $\chi^2/\text{NDF}: 6748.7/42$

Out: 12.170 ± 0.046 $\chi^2/\text{NDF}: 8595.0/48$

All: 12.082 ± 0.033 $\chi^2/\text{NDF}: 15351.4/91$

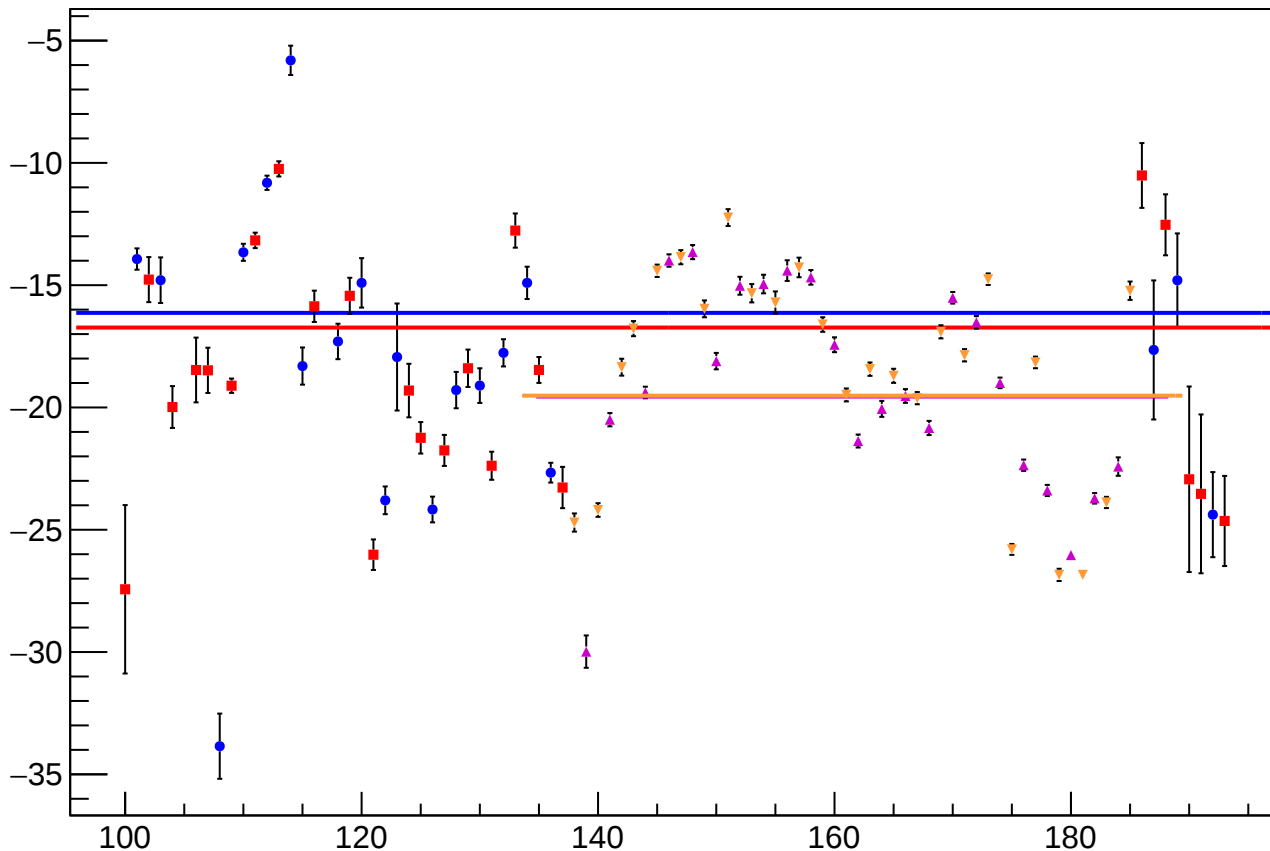
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.400 ± 0.189 $\chi^2/\text{NDF}: 6261.0/19$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -75.016 ± 0.161 $\chi^2/\text{NDF}: 4382.8/23$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$
 Right: -73.498 ± 0.122 $\chi^2/\text{NDF}: 10856.4/43$
 In: -46.339 ± 0.060 $\chi^2/\text{NDF}: 41105.0/42$
 Out: -47.996 ± 0.058 $\chi^2/\text{NDF}: 54593.1/48$
 All: -47.199 ± 0.042 $\chi^2/\text{NDF}: 96093.3/91$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.132 ± 0.132 $\chi^2/\text{NDF}: 1644.0/19$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.733 ± 0.127 $\chi^2/\text{NDF}: 1270.2/23$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

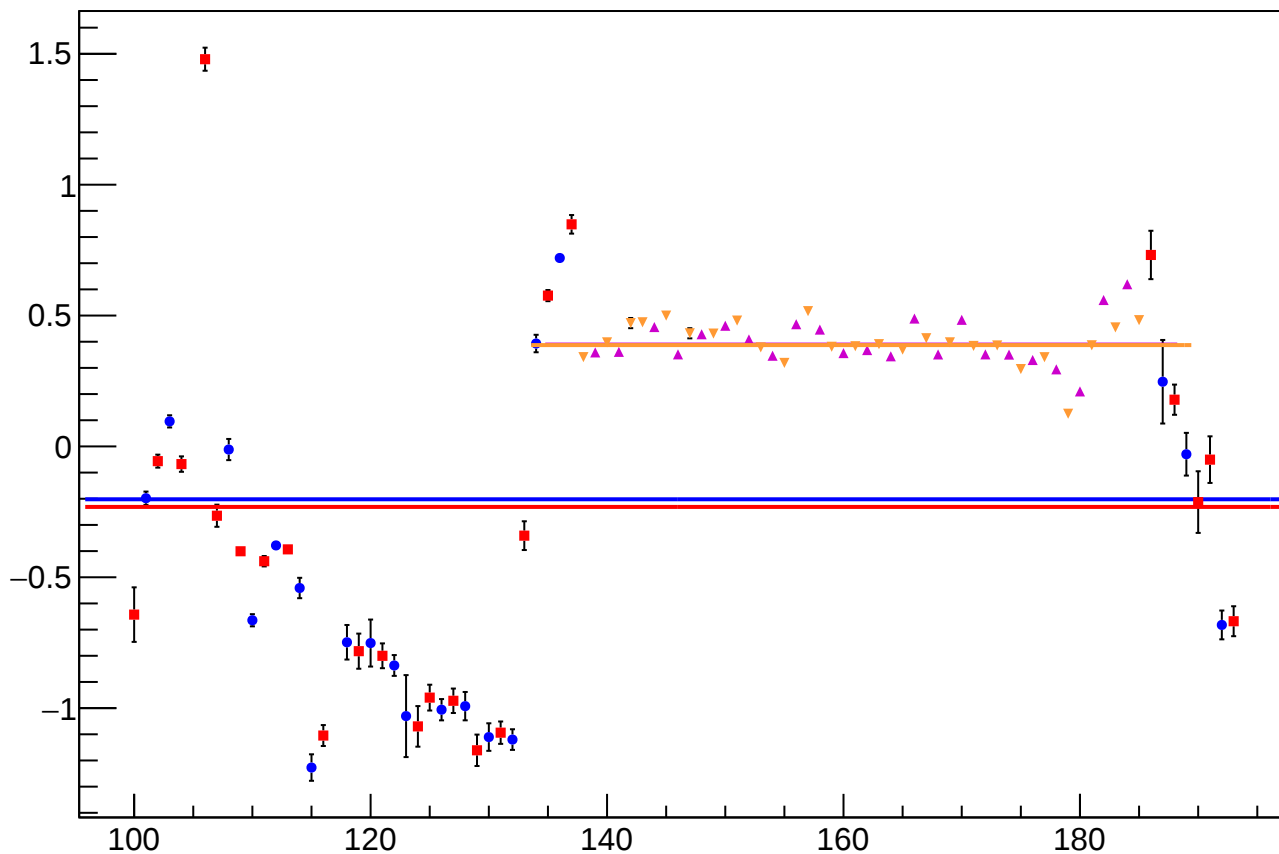
Right: -16.445 ± 0.091 $\chi^2/\text{NDF}: 2925.0/43$

In: -19.011 ± 0.053 $\chi^2/\text{NDF}: 6520.9/42$

Out: -19.065 ± 0.051 $\chi^2/\text{NDF}: 8193.7/48$

All: -19.039 ± 0.037 $\chi^2/\text{NDF}: 14715.2/91$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.007 χ^2/NDF : 6405.7/19

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.231 ± 0.007 χ^2/NDF : 6398.7/23

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

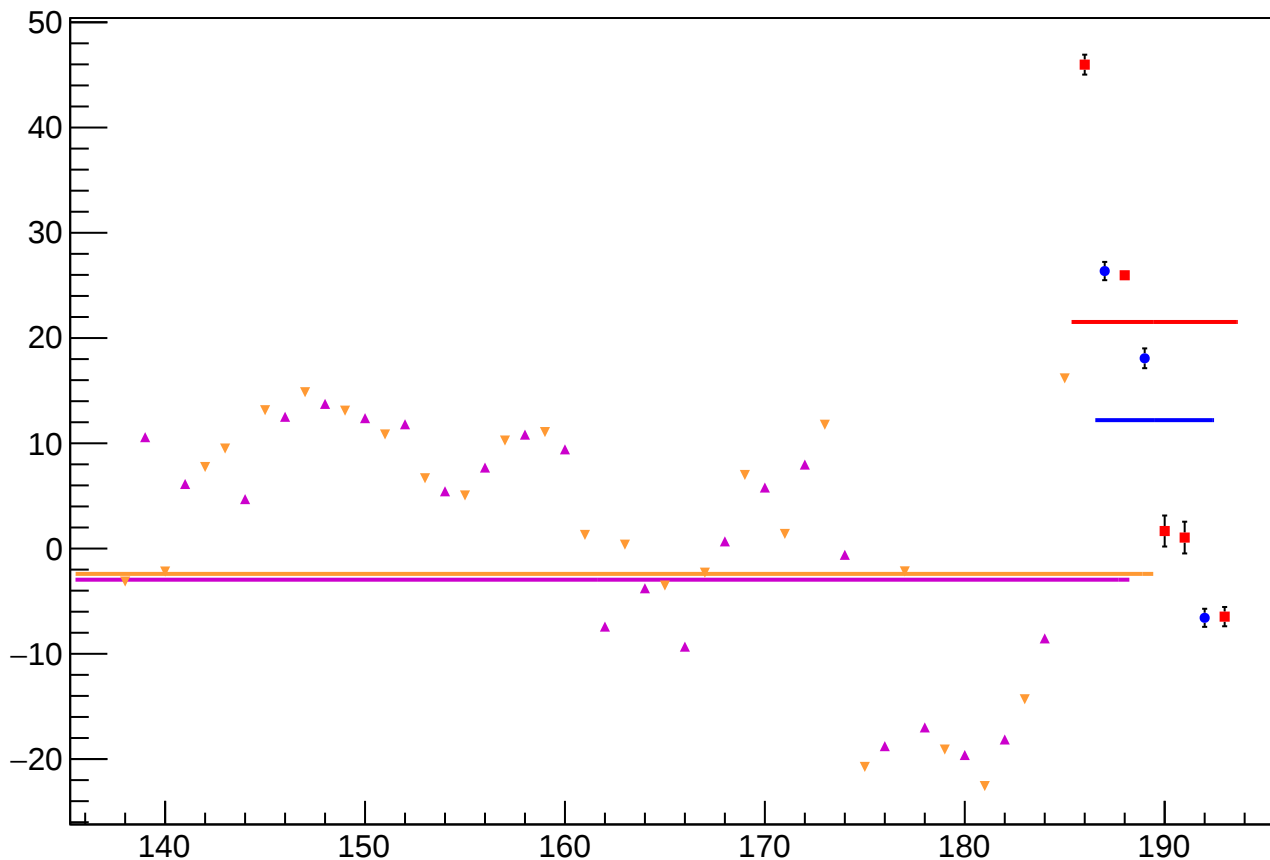
Right: -0.217 ± 0.005 χ^2/NDF : 12812.6/43

In: 0.324 ± 0.002 χ^2/NDF : 13269.7/42

Out: 0.315 ± 0.002 χ^2/NDF : 14242.8/48

All: 0.319 ± 0.002 χ^2/NDF : 27520.0/91

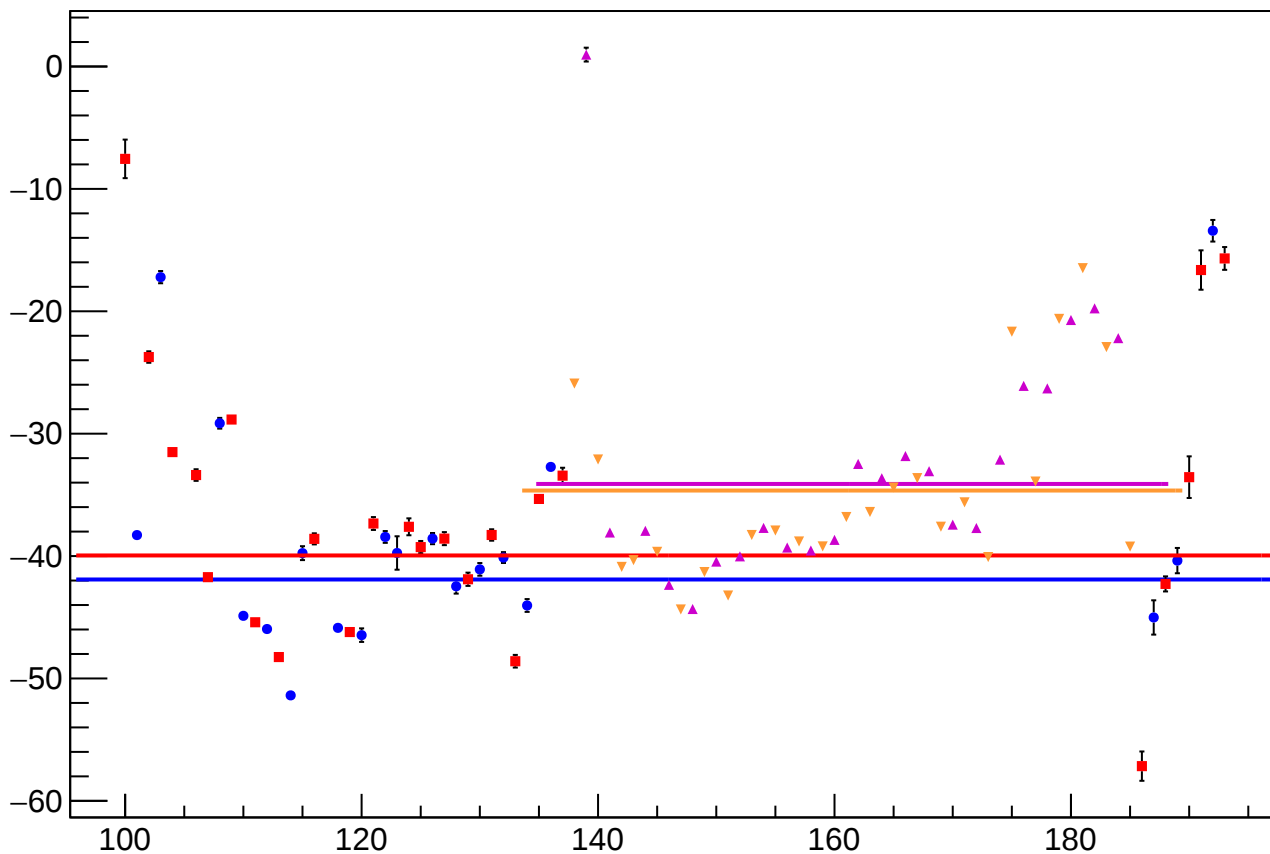
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.200 $\pm$ 0.512 χ^2 /NDF: 783.5/2
 Left Out: -2.407 $\pm$ 0.053 χ^2 /NDF: 56368.5/24
 Right Out: 21.528 $\pm$ 0.340 χ^2 /NDF: 2072.9/4
 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: 18.678 $\pm$ 0.283 χ^2 /NDF: 3086.9/7
 In: -2.787 $\pm$ 0.055 χ^2 /NDF: 47572.7/25
 Out: -1.843 $\pm$ 0.052 χ^2 /NDF: 63291.8/29
 All: -2.294 $\pm$ 0.038 χ^2 /NDF: 111021.3/55

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.914 ± 0.078 $\chi^2/\text{NDF}: 7609.6/19$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -39.950 ± 0.072 $\chi^2/\text{NDF}: 12447.0/23$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

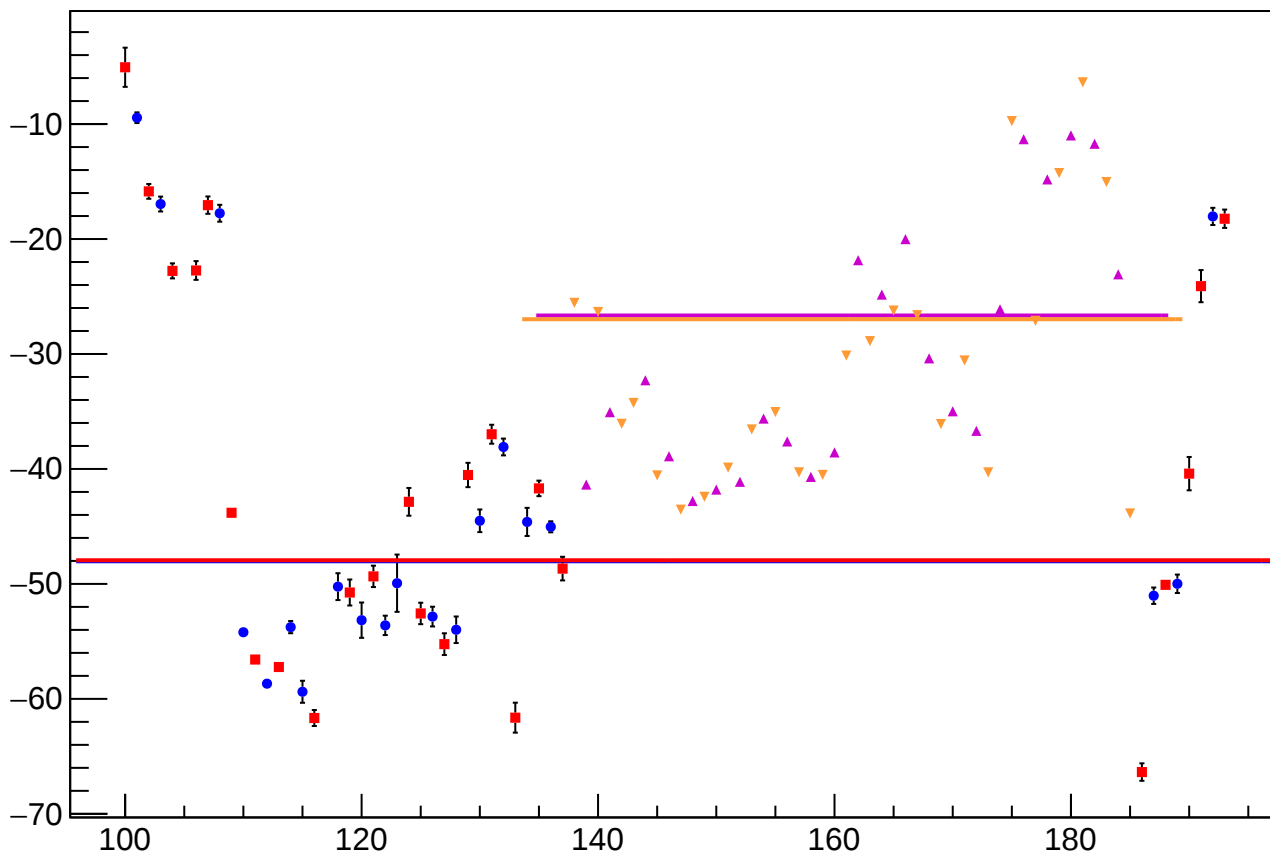
Right: -40.857 ± 0.053 $\chi^2/\text{NDF}: 20401.9/43$

In: -36.007 ± 0.038 $\chi^2/\text{NDF}: 44332.7/42$

Out: -35.987 ± 0.036 $\chi^2/\text{NDF}: 51196.7/48$

All: -35.996 ± 0.026 $\chi^2/\text{NDF}: 95529.6/91$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.030 ± 0.120 $\chi^2/\text{NDF}: 16327.8/19$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -47.942 ± 0.100 $\chi^2/\text{NDF}: 14069.7/23$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

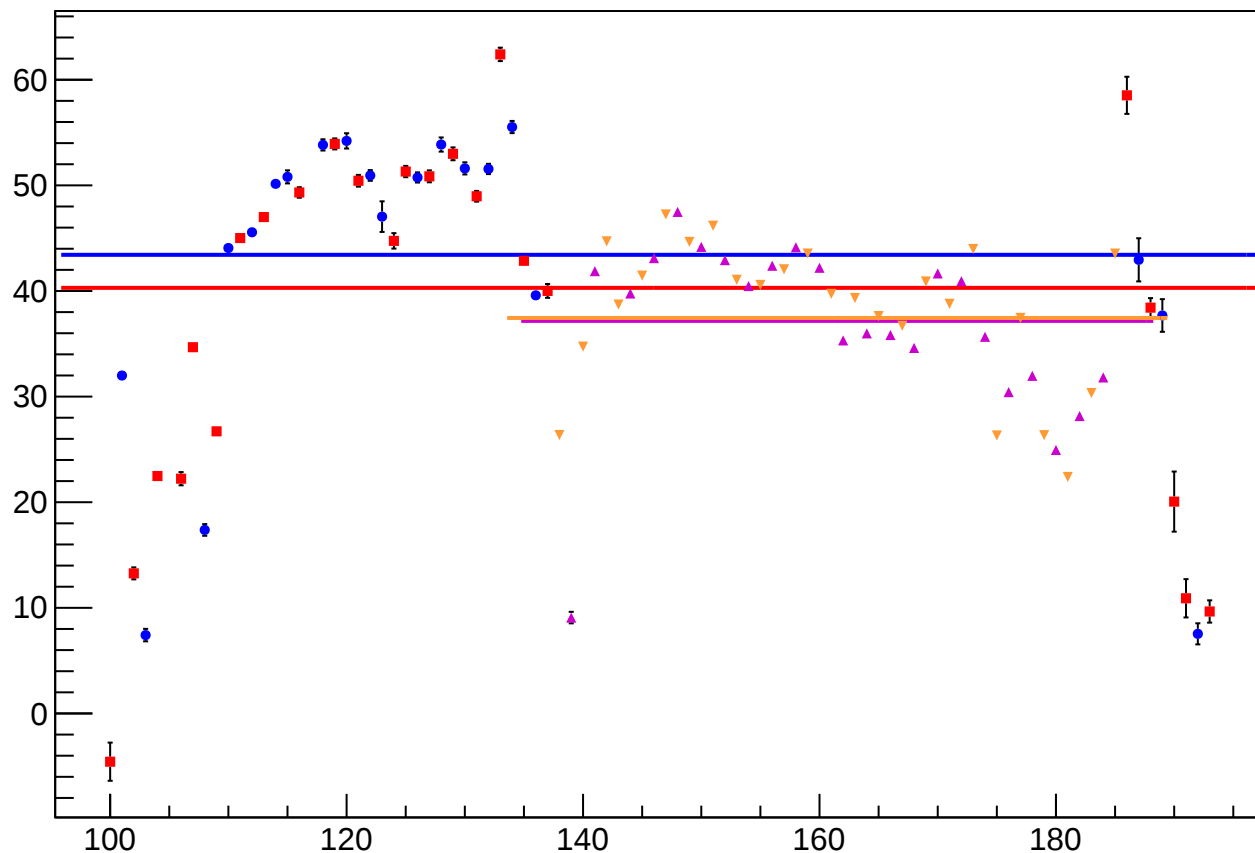
Right: -47.978 ± 0.077 $\chi^2/\text{NDF}: 30397.8/43$

In: -30.359 ± 0.050 $\chi^2/\text{NDF}: 84682.7/42$

Out: -31.585 ± 0.047 $\chi^2/\text{NDF}: 97569.2/48$

All: -31.009 ± 0.034 $\chi^2/\text{NDF}: 182571.1/91$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.425 $\pm$ 0.086 χ^2 /NDF: 11880.3/19

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 40.297 $\pm$ 0.080 χ^2 /NDF: 18855.5/23

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

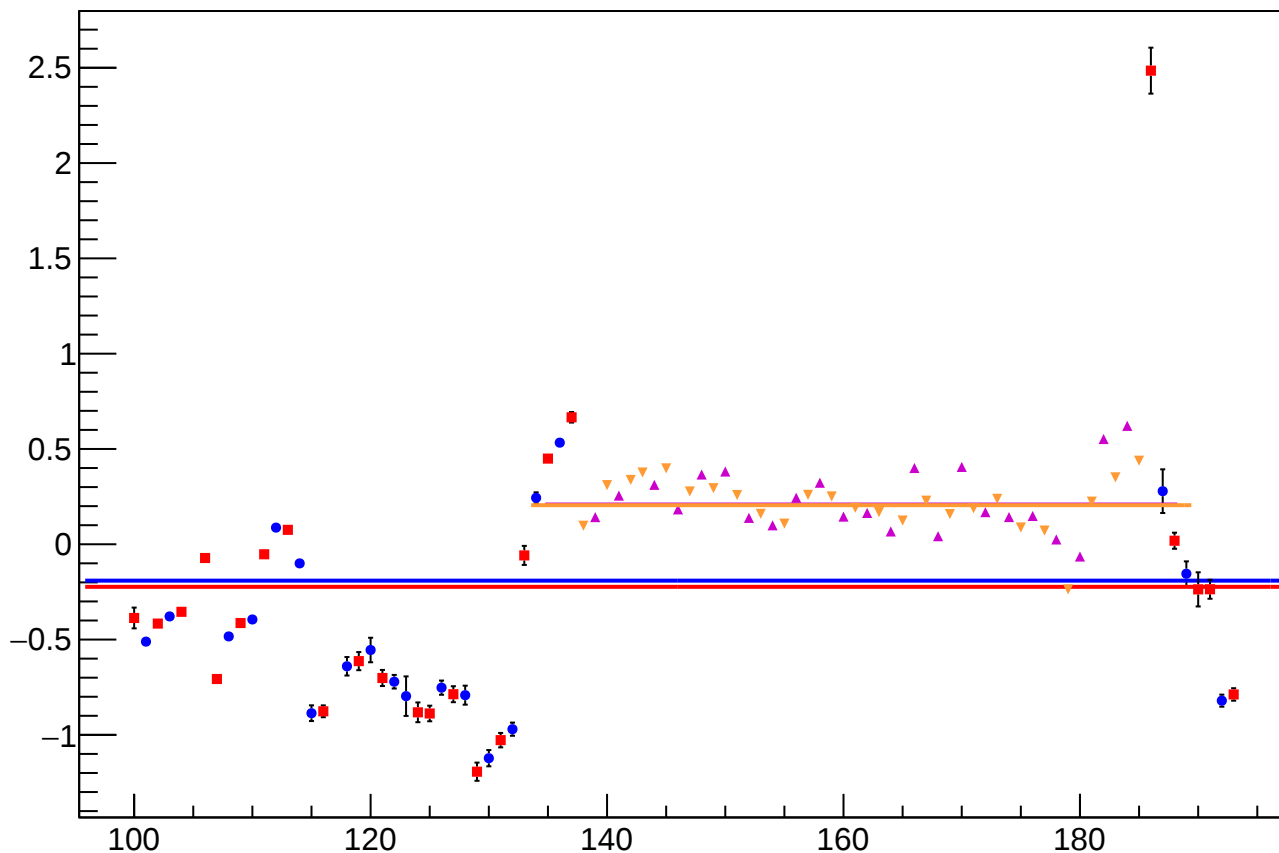
Right: 41.729 $\pm$ 0.059 χ^2 /NDF: 31444.6/43

In: 38.702 $\pm$ 0.043 χ^2 /NDF: 33066.9/42

Out: 38.189 $\pm$ 0.041 χ^2 /NDF: 41376.8/48

All: 38.431 $\pm$ 0.029 χ^2 /NDF: 74519.5/91

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.191 ± 0.005 χ^2/NDF : 7776.0/19

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.223 ± 0.004 χ^2/NDF : 8252.8/23

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

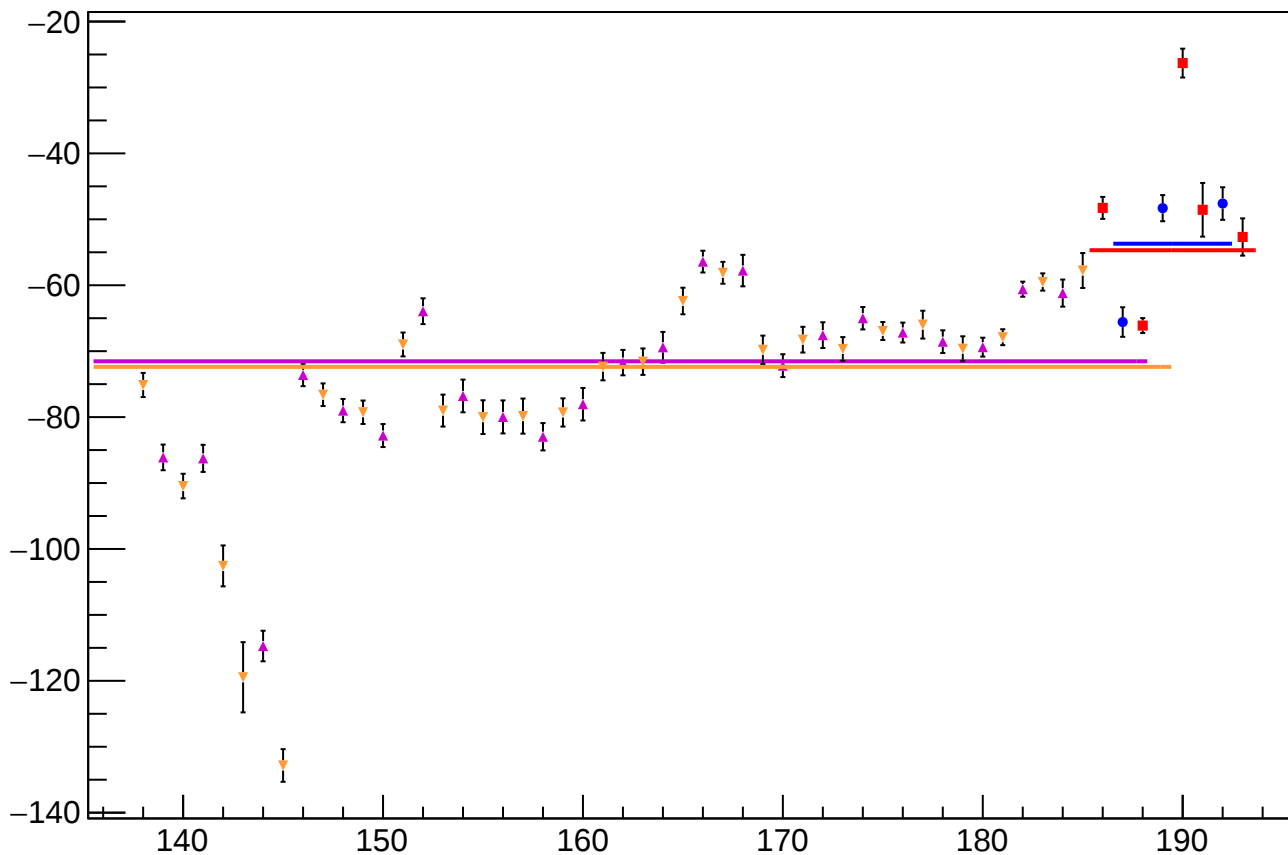
Right: -0.209 ± 0.003 χ^2/NDF : 16054.8/43

In: 0.136 ± 0.002 χ^2/NDF : 18599.9/42

Out: 0.115 ± 0.002 χ^2/NDF : 20211.5/48

All: 0.125 ± 0.001 χ^2/NDF : 38866.3/91

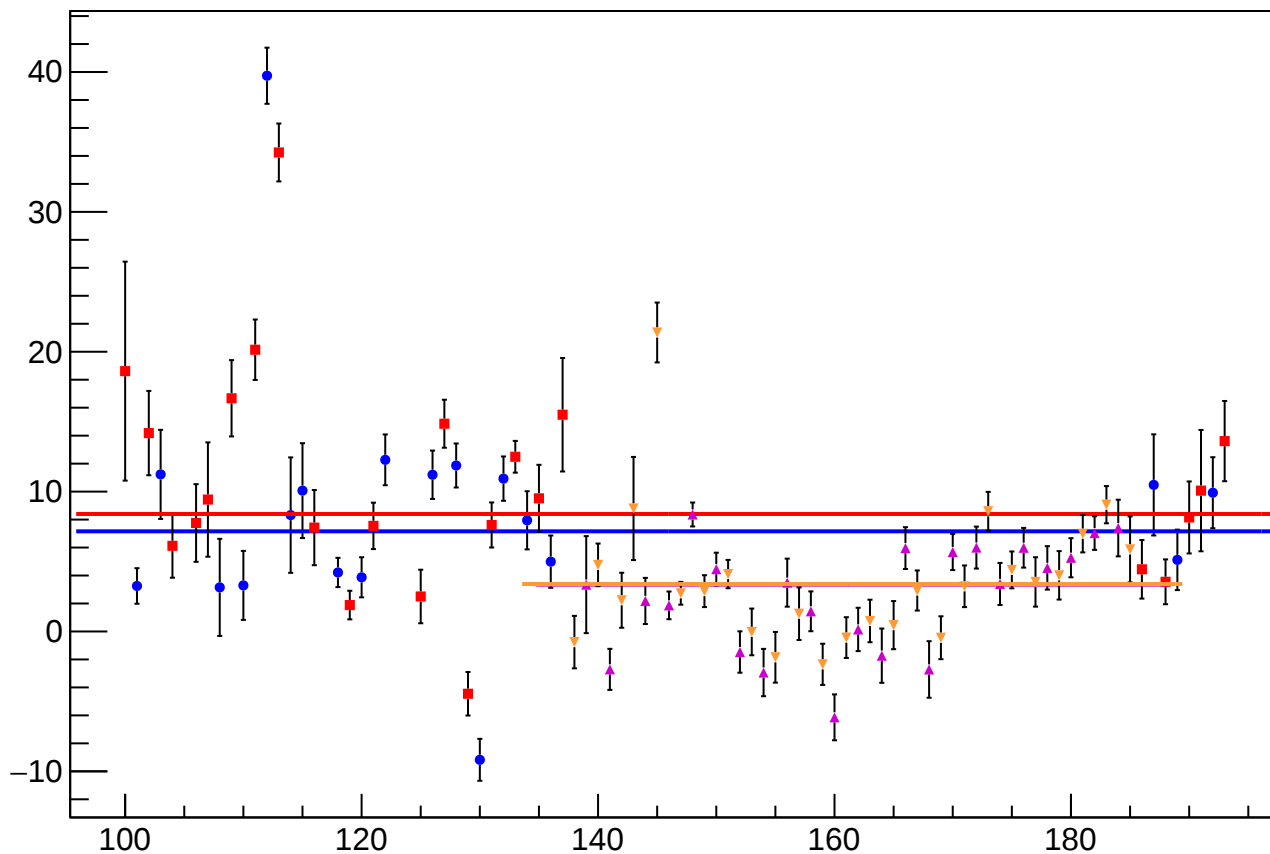
reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.698 $\pm$ 1.273 χ^2 /NDF: 41.6/2
 Left Out: -72.381 $\pm$ 0.382 χ^2 /NDF:1199.9/24
 Right Out: -54.688 $\pm$ 0.808 χ^2 /NDF: 287.7/4
 Left In: -71.534 $\pm$ 0.382 χ^2 /NDF:851.4/22

Left: -71.957 $\pm$ 0.270 χ^2 /NDF: 2053.7/47
 Right: -54.404 $\pm$ 0.682 χ^2 /NDF: 329.8/7
 In: -70.062 $\pm$ 0.366 χ^2 /NDF:1073.3/25
 Out: -69.151 $\pm$ 0.345 χ^2 /NDF:1879.6/29
 All: -69.580 $\pm$ 0.251 χ^2 /NDF: 2956.1/55

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.159 $\pm$ 0.422 χ^2 /NDF: 443.4/18

Left Out: 3.392 $\pm$ 0.294 χ^2 /NDF:169.9/24

Right Out: 8.401 $\pm$ 0.411 χ^2 /NDF: 366.7/22

Left In: 3.349 $\pm$ 0.298 χ^2 /NDF:163.5/22

Left: 3.371 $\pm$ 0.209 χ^2 /NDF: 333.4/47

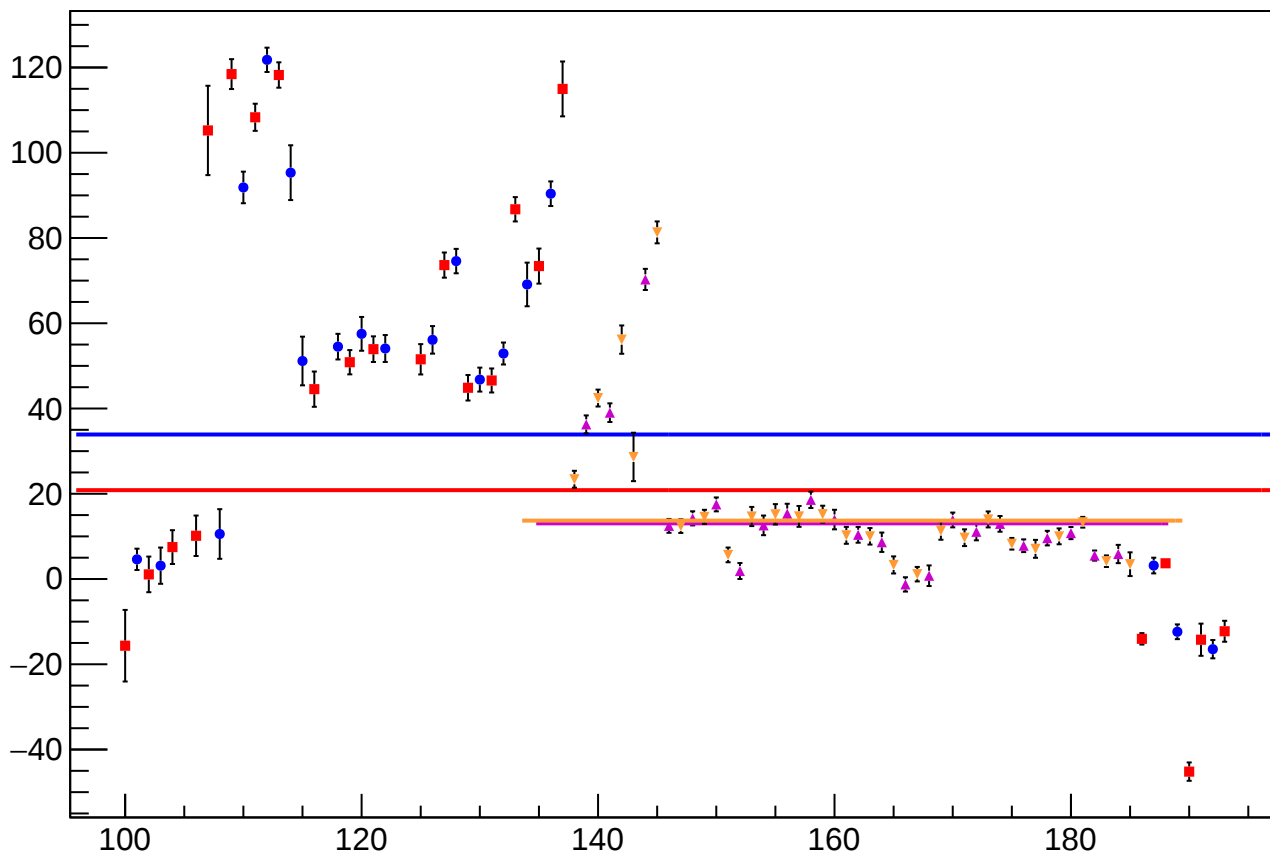
Right: 7.797 $\pm$ 0.295 χ^2 /NDF: 814.5/41

In: 4.617 $\pm$ 0.244 χ^2 /NDF:661.2/41

Out: 5.084 $\pm$ 0.239 χ^2 /NDF:634.8/47

All: 4.855 $\pm$ 0.171 χ^2 /NDF: 1297.9/89

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.903 $\pm$ 0.664 χ^2 /NDF: 3918.6/18

Left Out: 13.700 $\pm$ 0.381 χ^2 /NDF:1307.0/24

Right Out: 20.845 $\pm$ 0.527 χ^2 /NDF: 6677.7/22

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

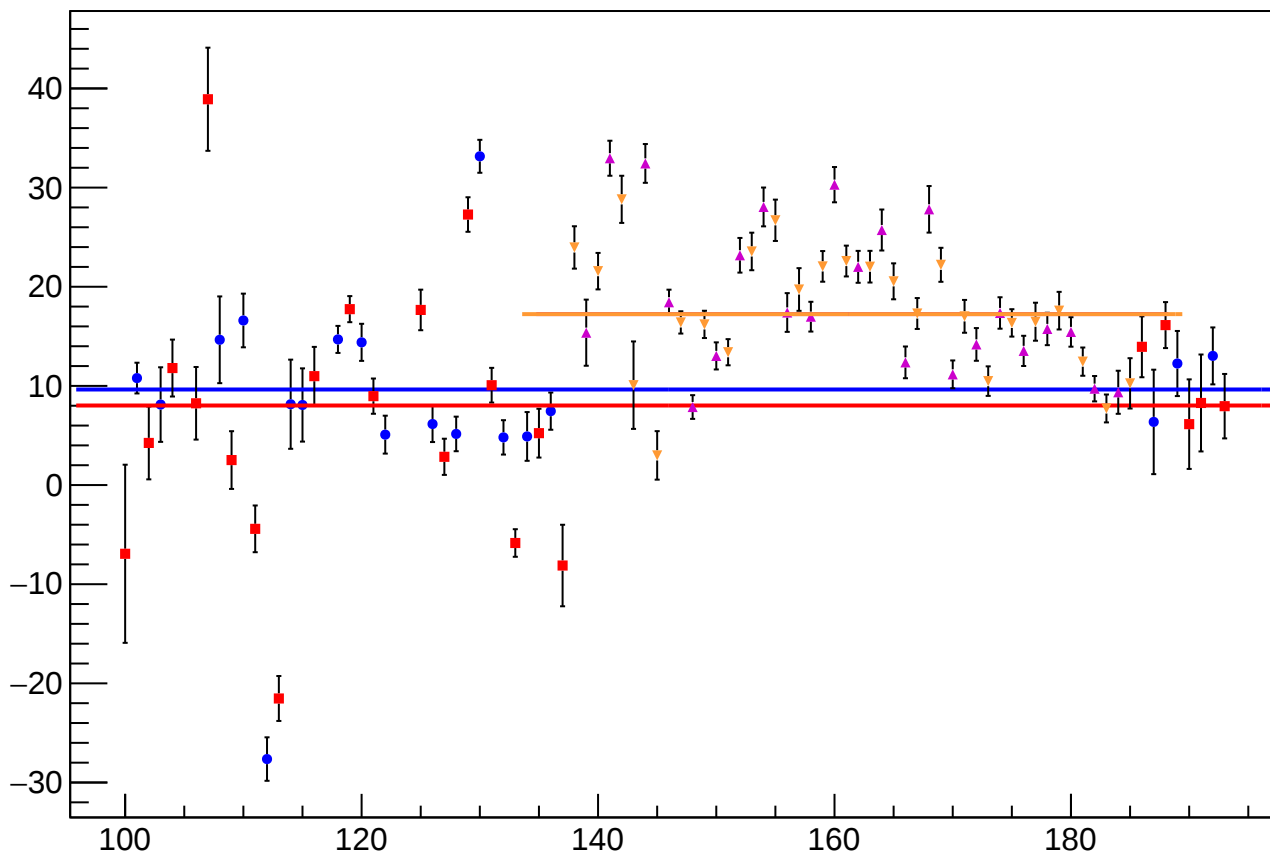
Right: 25.888 $\pm$ 0.413 χ^2 /NDF: 10833.7/41

In: 18.195 $\pm$ 0.330 χ^2 /NDF:5685.9/41

Out: 16.153 $\pm$ 0.309 χ^2 /NDF:8105.5/47

All: 17.107 $\pm$ 0.225 χ^2 /NDF: 13811.8/89

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.638 ± 0.492 $\chi^2/\text{NDF}: 549.7/18$

Left Out: 17.238 ± 0.336 $\chi^2/\text{NDF}: 246.5/24$

Right Out: 8.023 ± 0.486 $\chi^2/\text{NDF}: 584.1/22$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.241 ± 0.239 $\chi^2/\text{NDF}: 687.3/47$

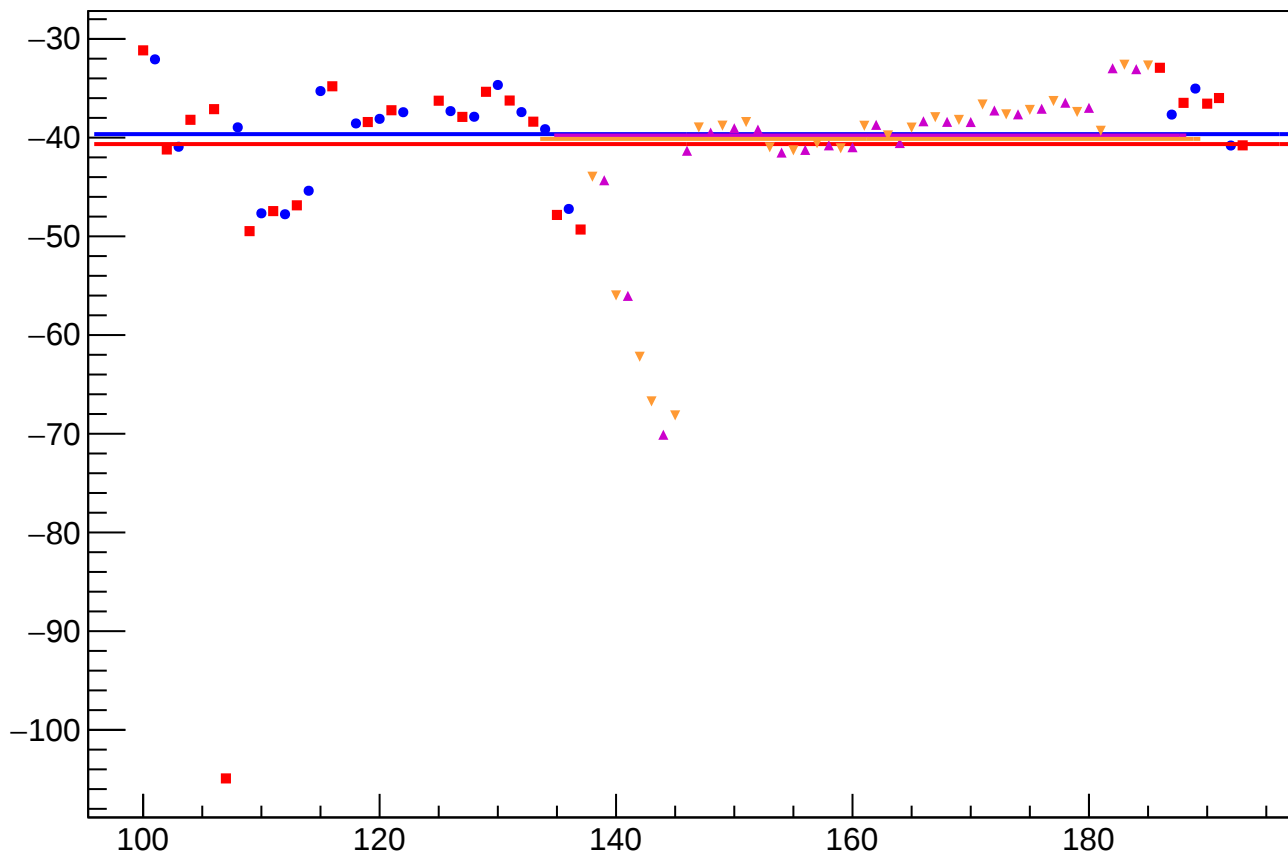
Right: 8.820 ± 0.346 $\chi^2/\text{NDF}: 1139.3/41$

In: 14.792 ± 0.279 $\chi^2/\text{NDF}: 1152.5/41$

Out: 14.256 ± 0.276 $\chi^2/\text{NDF}: 1073.9/47$

All: 14.521 ± 0.197 $\chi^2/\text{NDF}: 2228.2/89$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.645 ± 0.029 $\chi^2/\text{NDF}: 27555.0/18$

Left Out: -40.126 ± 0.016 $\chi^2/\text{NDF}: 185897.0/24$

Right Out: -40.653 ± 0.027 $\chi^2/\text{NDF}: 100402.8/22$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.955 ± 0.011 $\chi^2/\text{NDF}: 330628.3/47$

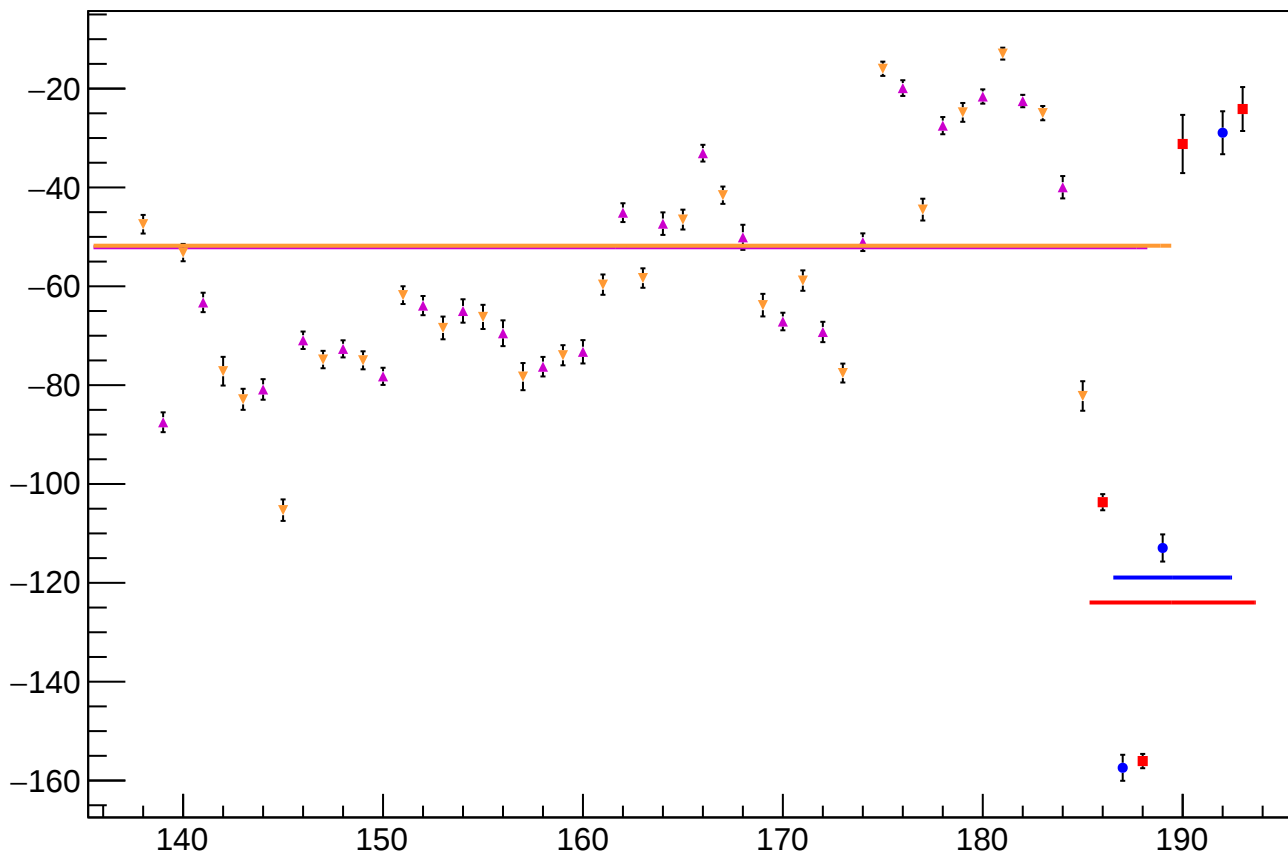
Right: -40.175 ± 0.020 $\chi^2/\text{NDF}: 128605.8/41$

In: -39.753 ± 0.014 $\chi^2/\text{NDF}: 172067.7/41$

Out: -40.257 ± 0.014 $\chi^2/\text{NDF}: 286580.5/47$

All: -40.007 ± 0.010 $\chi^2/\text{NDF}: 459328.6/89$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -118.927+/-1.742 χ^2 /NDF: 647.7/2

Left Out: -51.787+/-0.383 χ^2 /NDF:4164.8/24

Right Out: -123.978+/-1.035 χ^2 /NDF: 1399.8/3

Left In: -52.104+/-0.389 χ^2 /NDF:3280.2/22

Left: -51.943+/-0.273 χ^2 /NDF: 7445.3/47

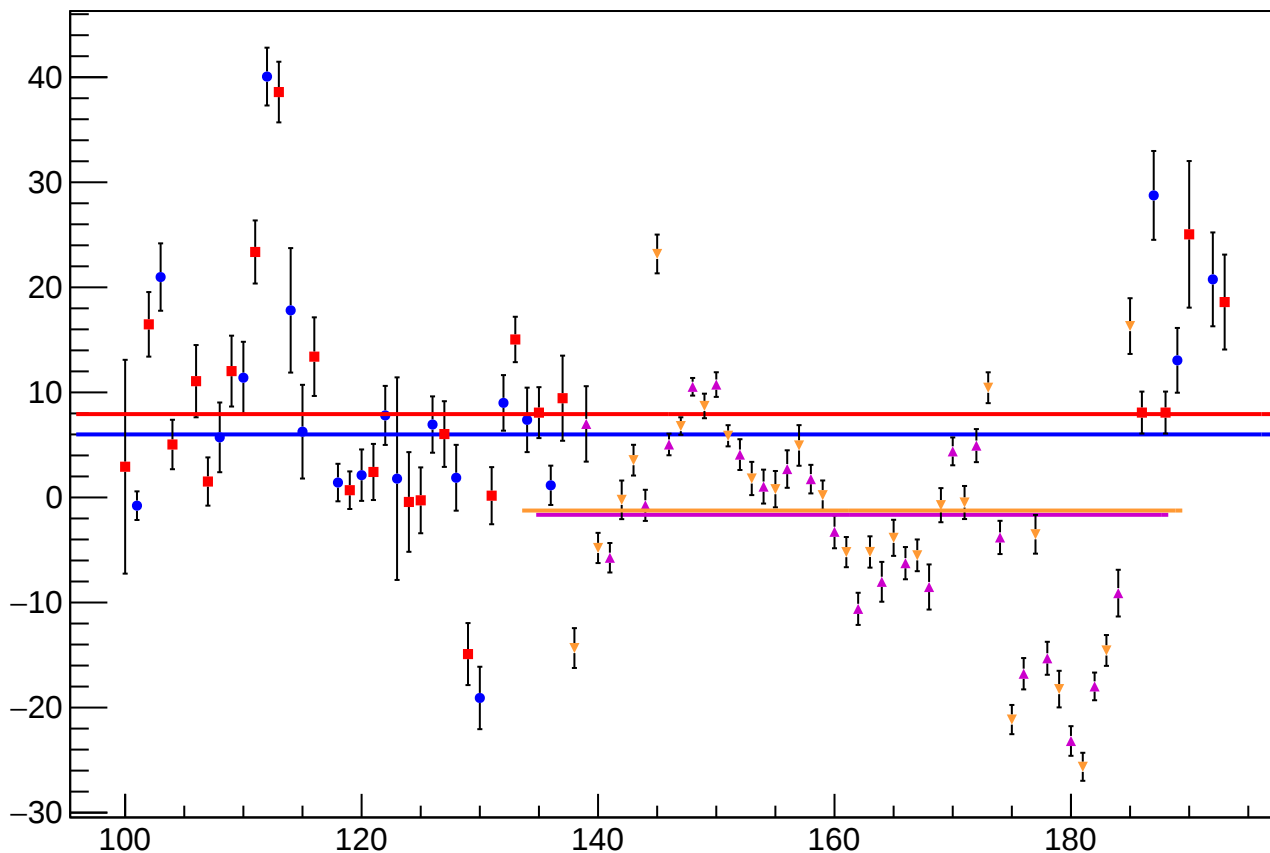
Right: -122.660+/-0.890 χ^2 /NDF: 2053.7/6

In: -55.274+/-0.379 χ^2 /NDF:5330.1/25

Out: -60.467+/-0.359 χ^2 /NDF:9844.9/28

All: -58.014+/-0.261 χ^2 /NDF: 15273.9/54

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.000 ± 0.604 $\chi^2/\text{NDF}: 342.4/19$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 7.934 ± 0.584 $\chi^2/\text{NDF}: 282.5/22$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

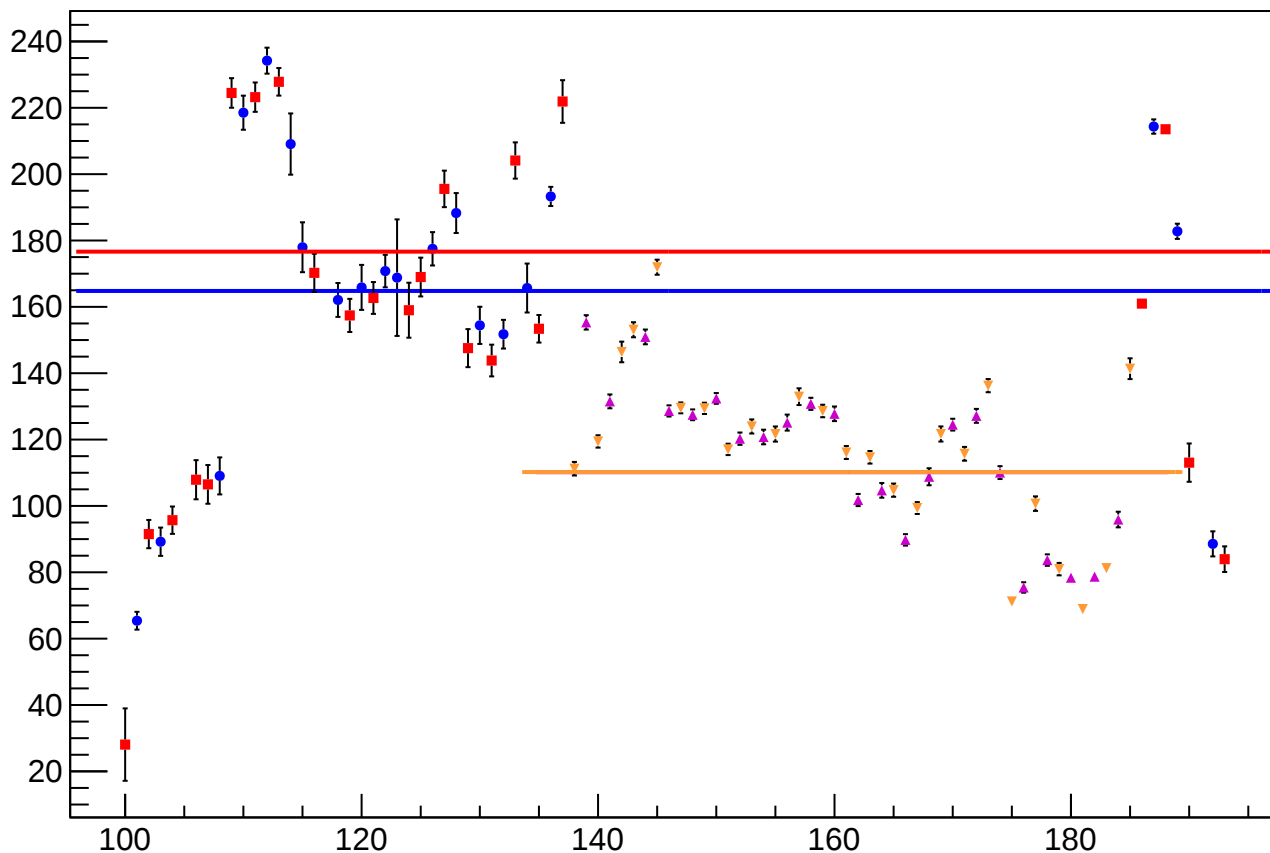
Right: 6.999 ± 0.420 $\chi^2/\text{NDF}: 630.2/42$

In: -0.135 ± 0.269 $\chi^2/\text{NDF}: 1563.3/42$

Out: 0.585 ± 0.261 $\chi^2/\text{NDF}: 1802.6/47$

All: 0.236 ± 0.187 $\chi^2/\text{NDF}: 3369.6/90$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 164.797 $\pm$ 0.902 χ^2 /NDF: 3360.7/19

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 176.645 $\pm$ 0.683 χ^2 /NDF: 3700.2/22

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

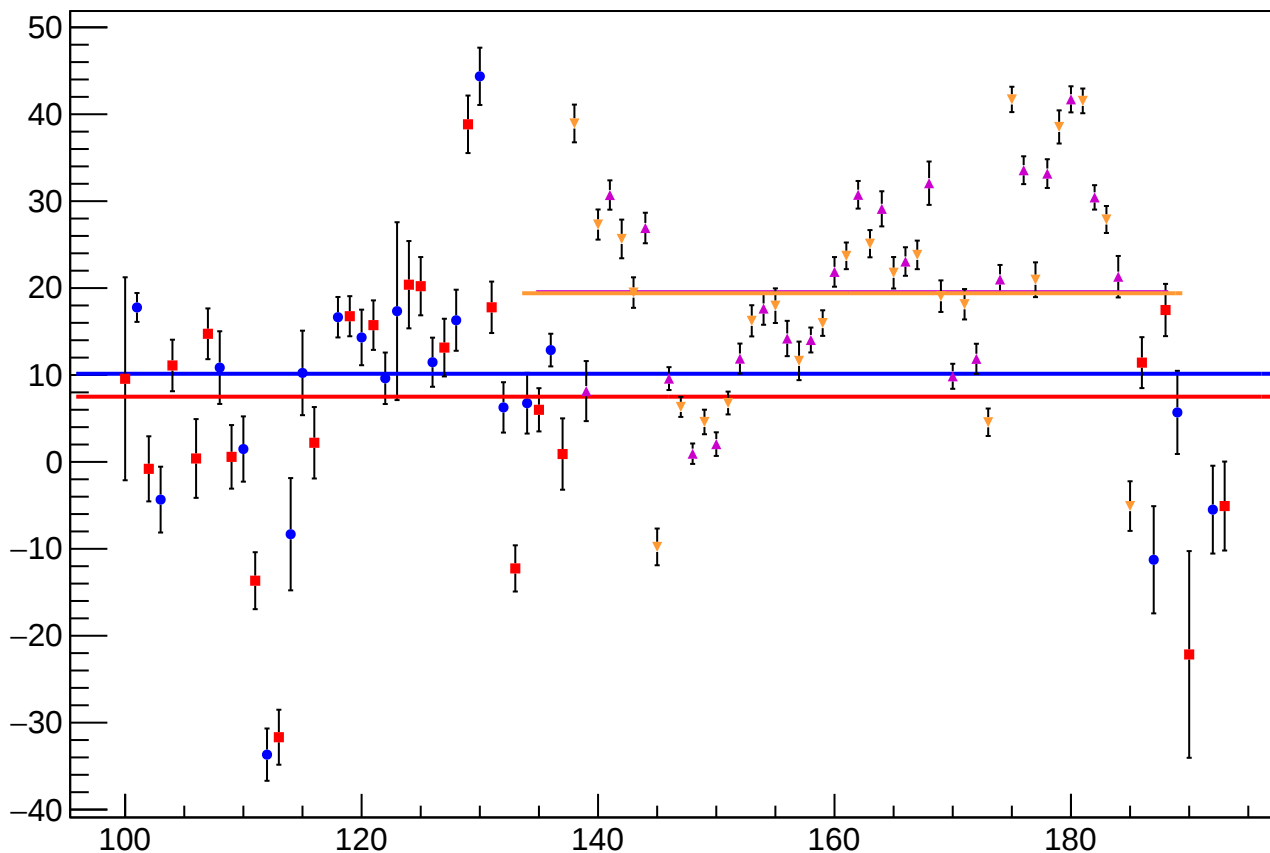
Right: 172.334 $\pm$ 0.544 χ^2 /NDF: 7170.6/42

In: 118.618 $\pm$ 0.355 χ^2 /NDF:10160.7/42

Out: 126.061 $\pm$ 0.333 χ^2 /NDF:15507.5/47

All: 122.572 $\pm$ 0.243 χ^2 /NDF: 25901.9/90

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.142 ± 0.701 $\chi^2/\text{NDF}: 409.8/19$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 7.504 ± 0.697 $\chi^2/\text{NDF}: 448.8/22$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

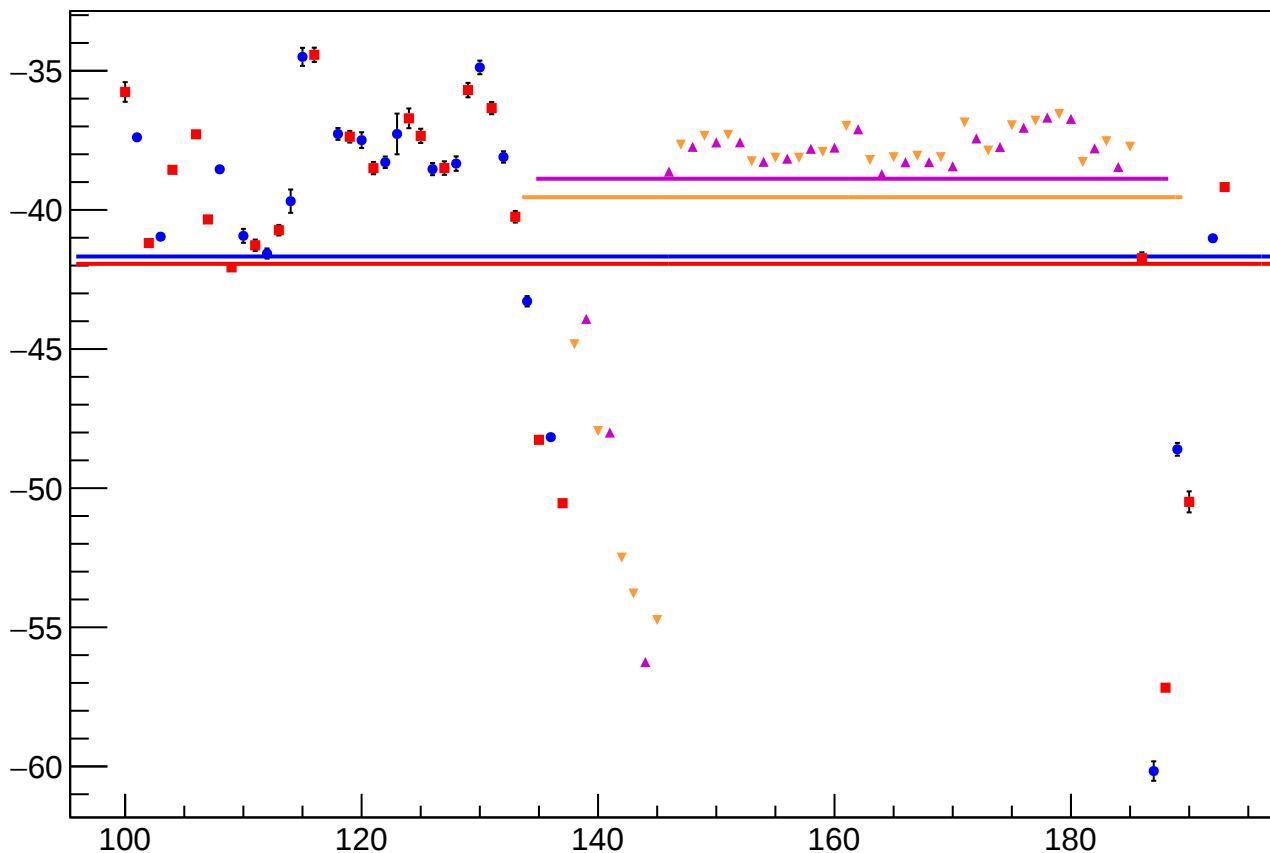
Right: 8.816 ± 0.494 $\chi^2/\text{NDF}: 865.7/42$

In: 17.721 ± 0.308 $\chi^2/\text{NDF}: 1735.9/42$

Out: 17.177 ± 0.302 $\chi^2/\text{NDF}: 2139.0/47$

All: 17.444 ± 0.215 $\chi^2/\text{NDF}: 3876.4/90$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.674 ± 0.037 χ^2/NDF : 16309.5/19

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.938 ± 0.036 χ^2/NDF : 22483.0/22

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

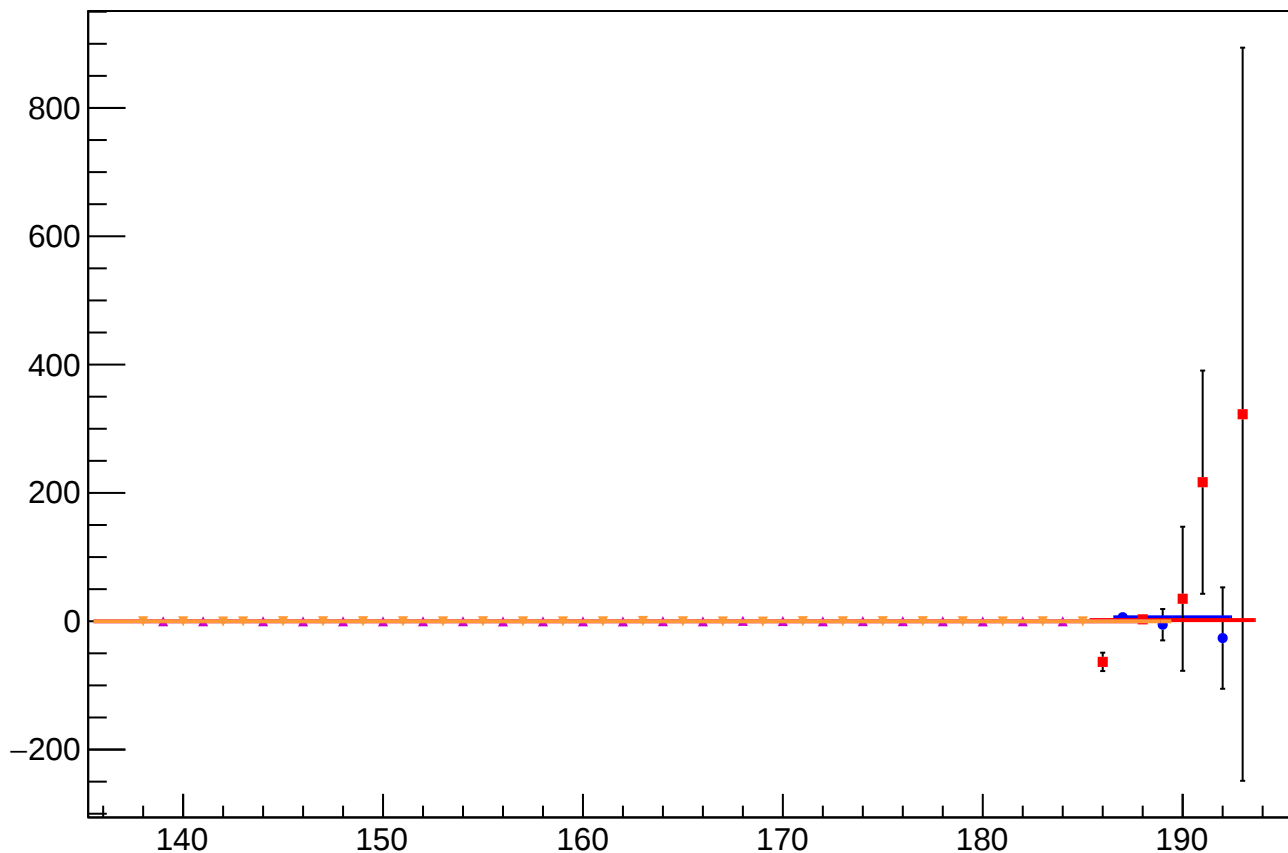
Right: -41.809 ± 0.026 χ^2/NDF : 38818.8/42

In: -39.316 ± 0.015 χ^2/NDF : 74567.5/42

Out: -39.928 ± 0.014 χ^2/NDF : 118244.9/47

All: -39.626 ± 0.010 χ^2/NDF : 193702.8/90

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.084+/-2.982 χ^2/NDF : 0.4/2

Left Out: -0.095+/-0.022 χ^2/NDF : 41.8/24

Right Out: 1.795+/-1.944 χ^2/NDF : 23.0/4

Left In: -0.026+/-0.022 χ^2/NDF : 33.3/22

Left: -0.061+/-0.016 χ^2/NDF : 80.1/47

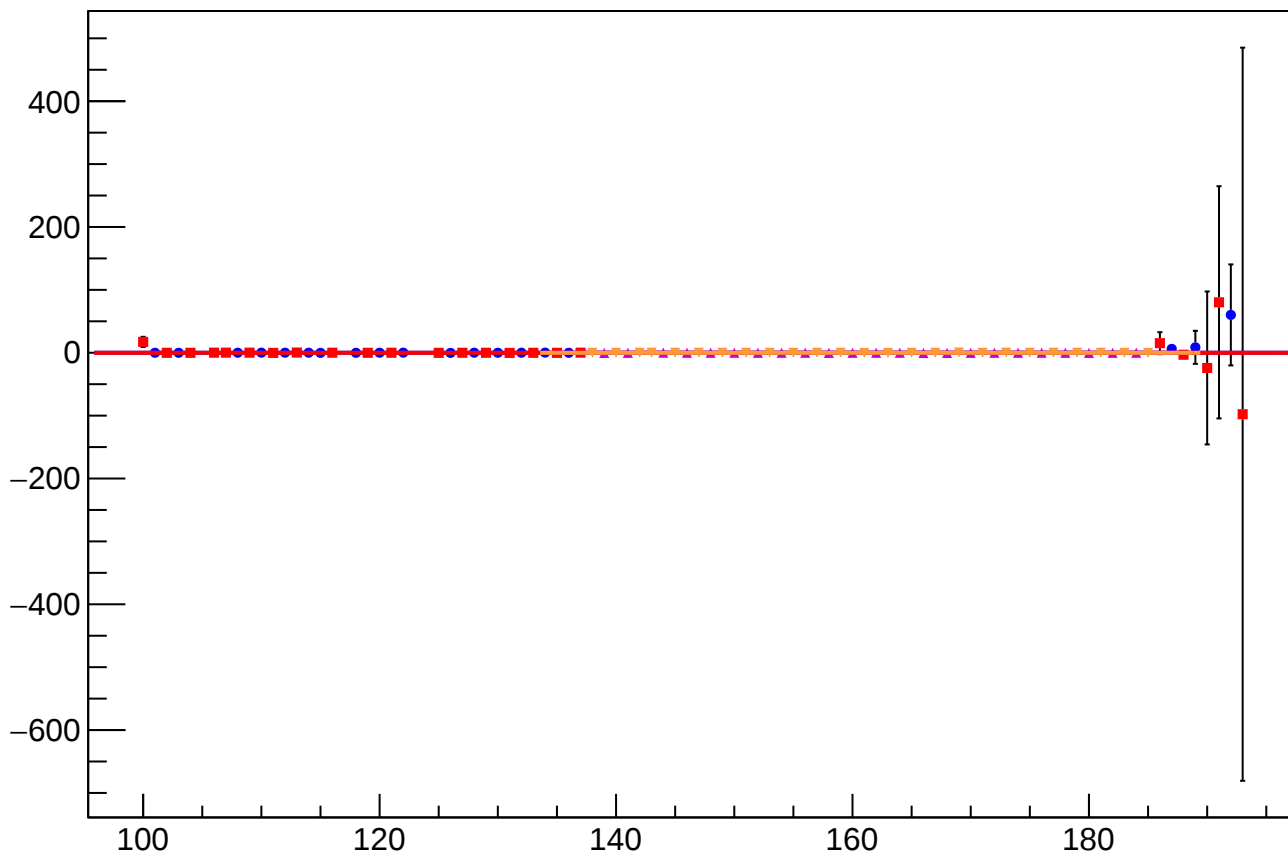
Right: 3.074+/-1.629 χ^2/NDF : 24.8/7

In: -0.025+/-0.022 χ^2/NDF : 37.9/25

Out: -0.095+/-0.022 χ^2/NDF : 65.7/29

All: -0.061+/-0.016 χ^2/NDF : 108.6/55

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 $\chi^2/\text{NDF}: 14.9/18$

Left Out: -0.078 ± 0.017 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -0.050 ± 0.029 $\chi^2/\text{NDF}: 27.5/22$

Left In: -0.052 ± 0.018 $\chi^2/\text{NDF}: 31.7/22$

Left: -0.065 ± 0.012 $\chi^2/\text{NDF}: 59.4/47$

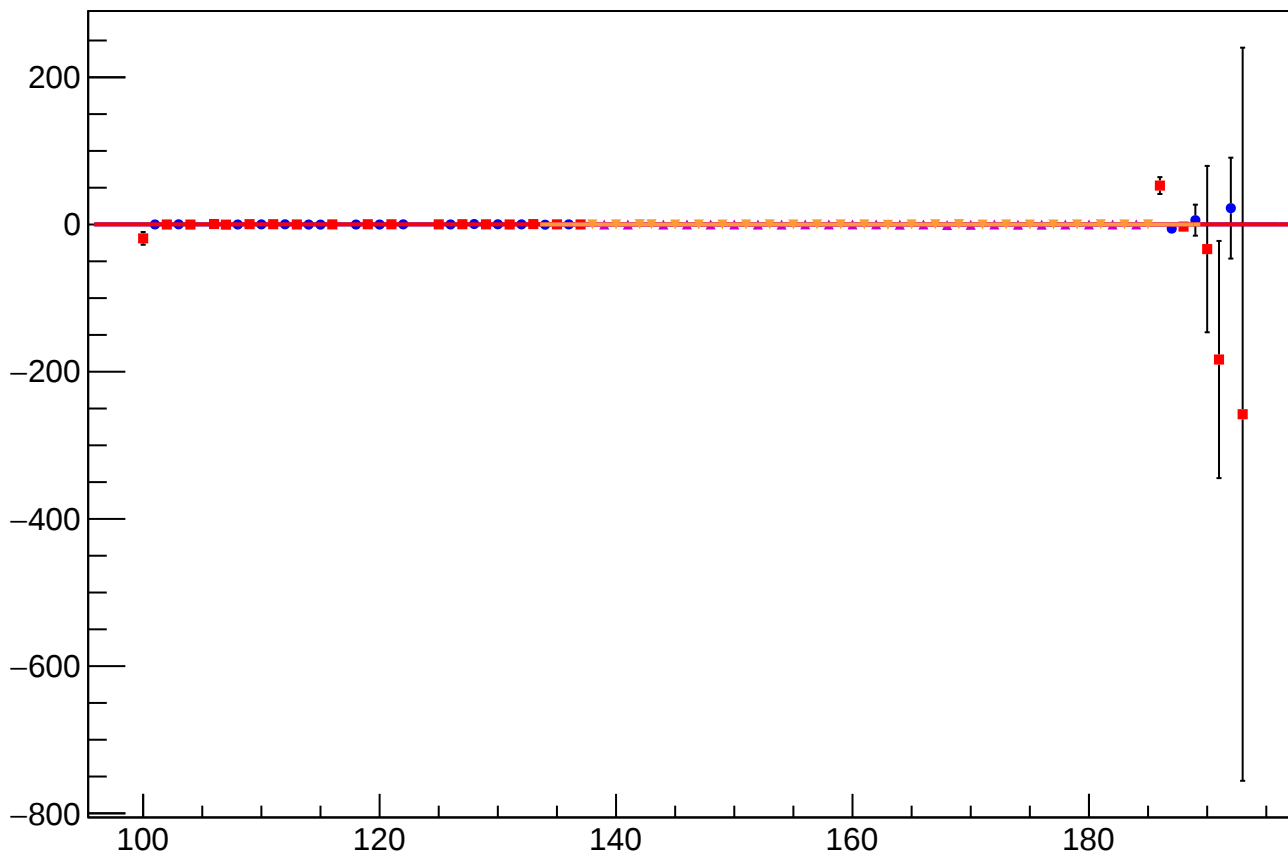
Right: -0.025 ± 0.020 $\chi^2/\text{NDF}: 43.8/41$

In: -0.038 ± 0.015 $\chi^2/\text{NDF}: 48.9/41$

Out: -0.071 ± 0.015 $\chi^2/\text{NDF}: 54.7/47$

All: -0.055 ± 0.010 $\chi^2/\text{NDF}: 106.1/89$

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 18.0/18

Left Out: 0.088 $\pm$ 0.022 χ^2 /NDF:40.7/24

Right Out: 0.233 $\pm$ 0.054 χ^2 /NDF: 48.0/22

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

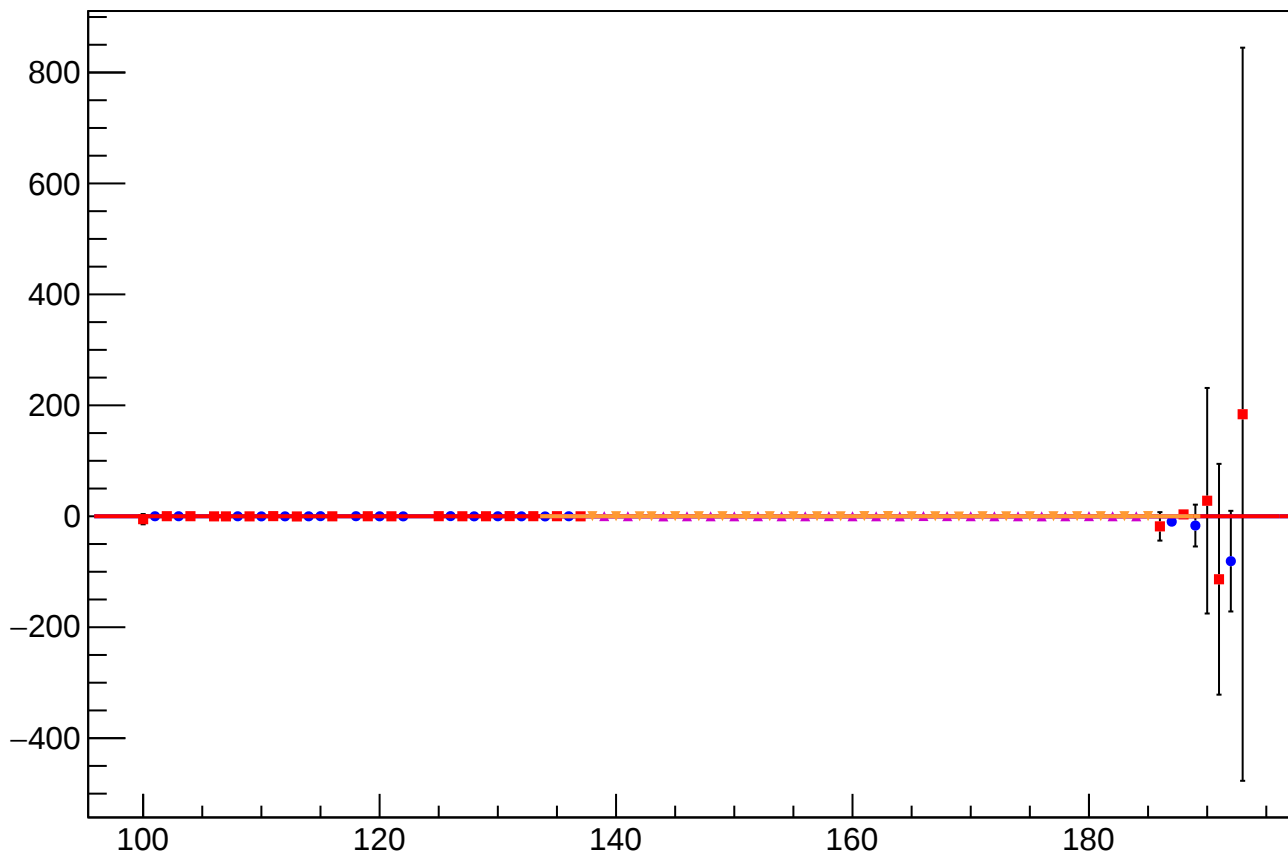
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 66.6/41

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.6/41

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:95.0/47

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 160.7/89

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 16.9/18

Left Out: 0.102 ± 0.019 χ^2/NDF : 30.2/24

Right Out: 0.057 ± 0.034 χ^2/NDF : 21.7/22

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.086 ± 0.014 χ^2/NDF : 63.0/47

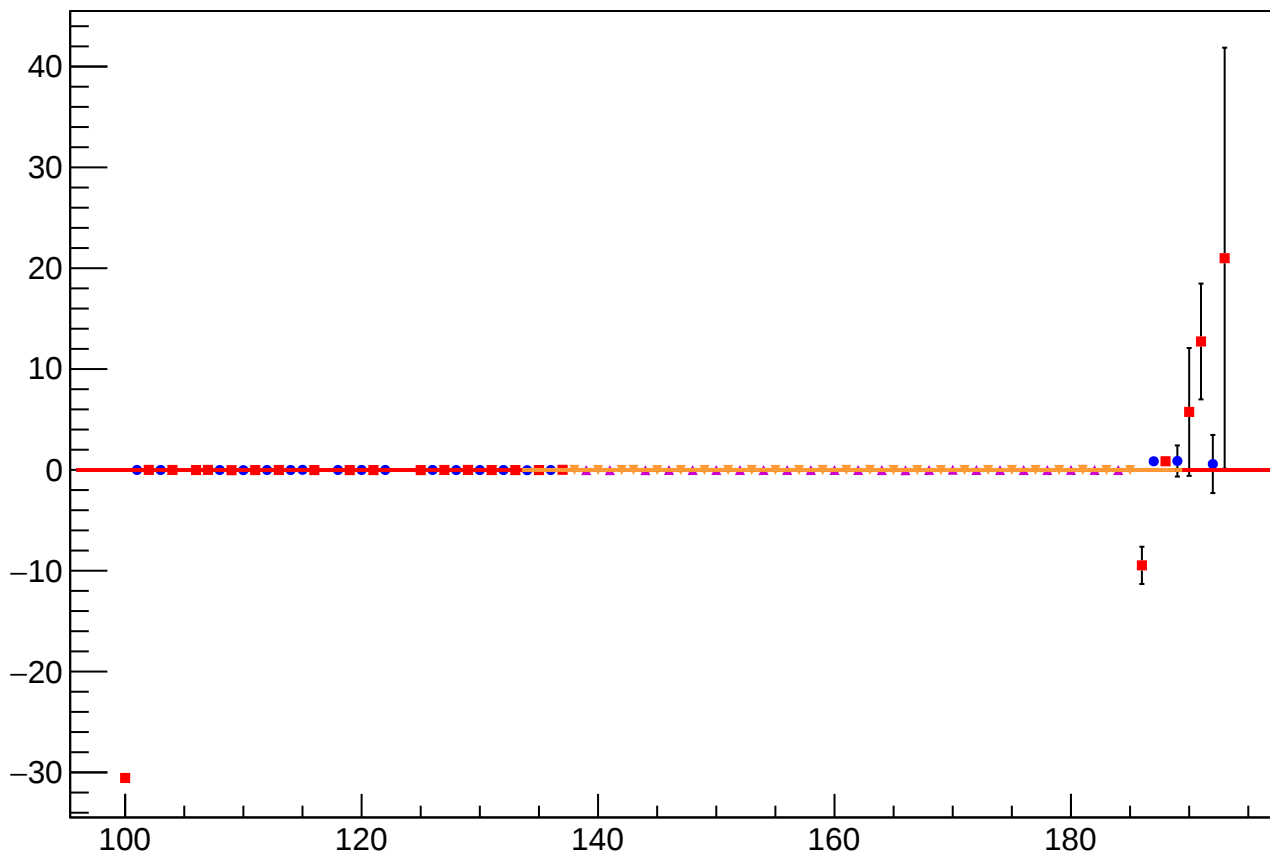
Right: 0.024 ± 0.024 χ^2/NDF : 40.5/41

In: 0.049 ± 0.017 χ^2/NDF : 52.1/41

Out: 0.091 ± 0.017 χ^2/NDF : 53.3/47

All: 0.070 ± 0.012 χ^2/NDF : 108.5/89

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 $\chi^2/\text{NDF}: 17.8/18$

Left Out: -0.008 ± 0.001 $\chi^2/\text{NDF}: 34.7/24$

Right Out: -0.012 ± 0.002 $\chi^2/\text{NDF}: 11936.7/22$

Left In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 40.8/22$

Left: -0.008 ± 0.001 $\chi^2/\text{NDF}: 76.4/47$

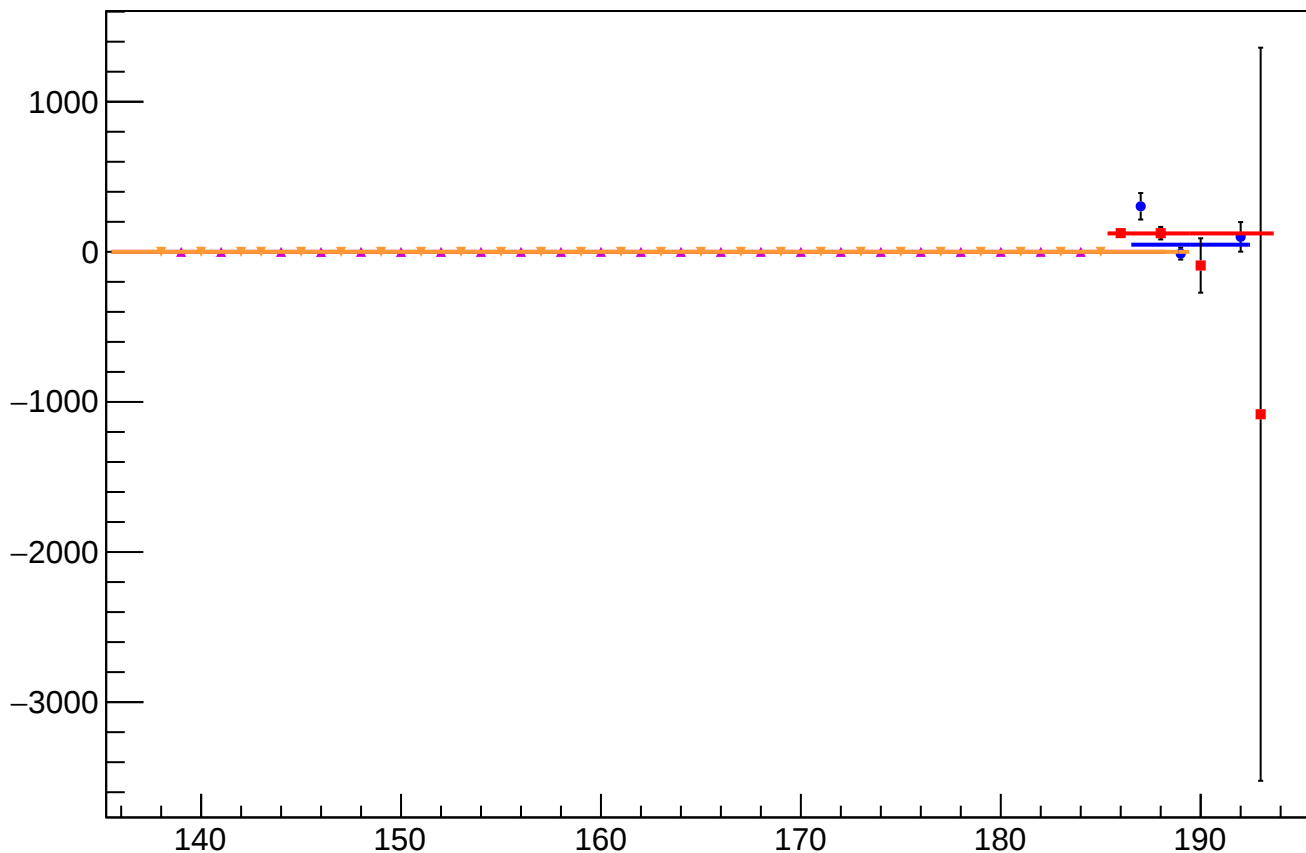
Right: -0.012 ± 0.001 $\chi^2/\text{NDF}: 11954.5/41$

In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 61.0/41$

Out: -0.008 ± 0.001 $\chi^2/\text{NDF}: 11976.2/47$

All: -0.009 ± 0.001 $\chi^2/\text{NDF}: 12037.8/89$

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 47.687+/-33.835 χ^2/NDF : 11.0/2

Left Out: 0.017+/-0.027 χ^2/NDF : 30.9/24

Right Out: 122.679+/-17.073 χ^2/NDF : 1.6/3

Left In: 0.002+/-0.028 χ^2/NDF : 29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

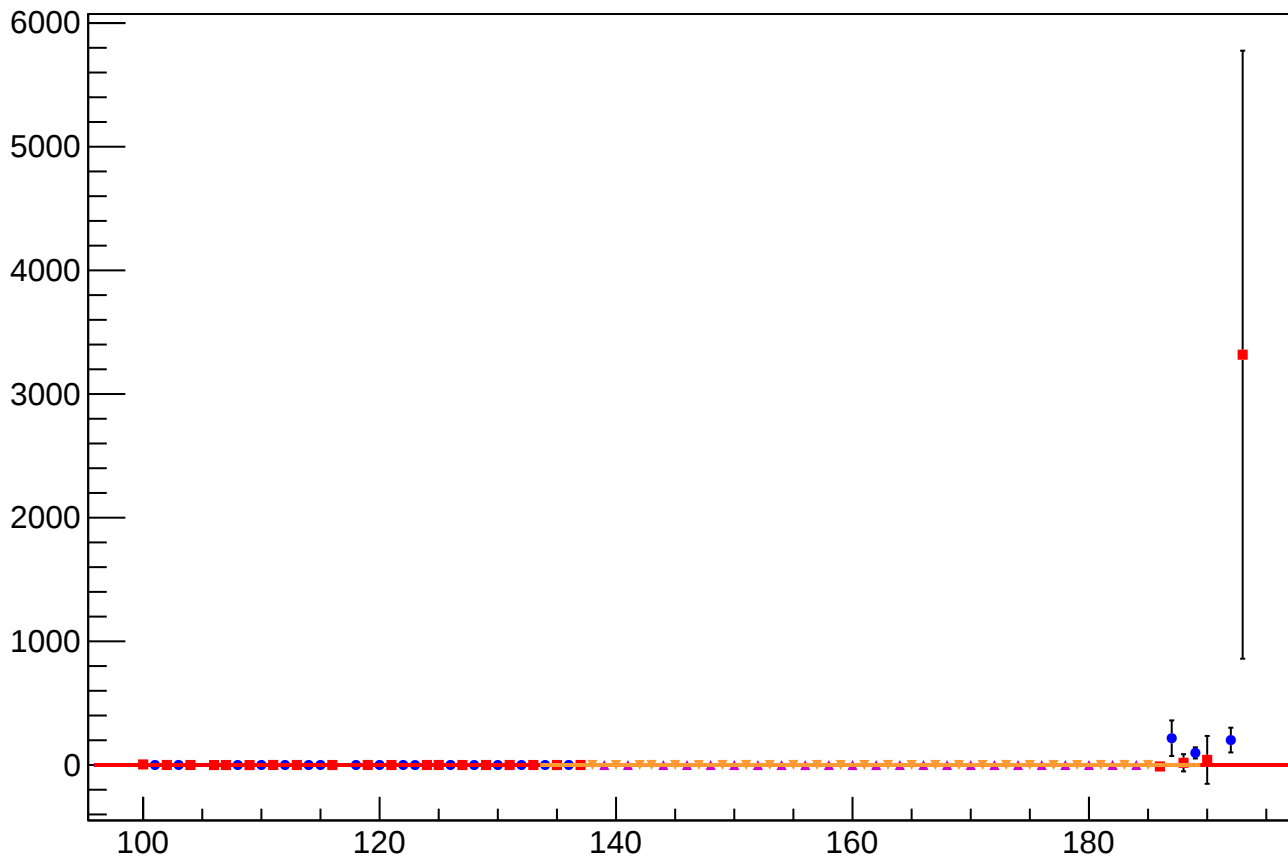
Right: 107.459+/-15.243 χ^2/NDF : 16.5/6

In: 0.002+/-0.028 χ^2/NDF : 42.0/25

Out: 0.018+/-0.027 χ^2/NDF : 84.2/28

All: 0.010+/-0.019 χ^2/NDF : 126.3/54

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 34.0/19

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 20.7/22

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

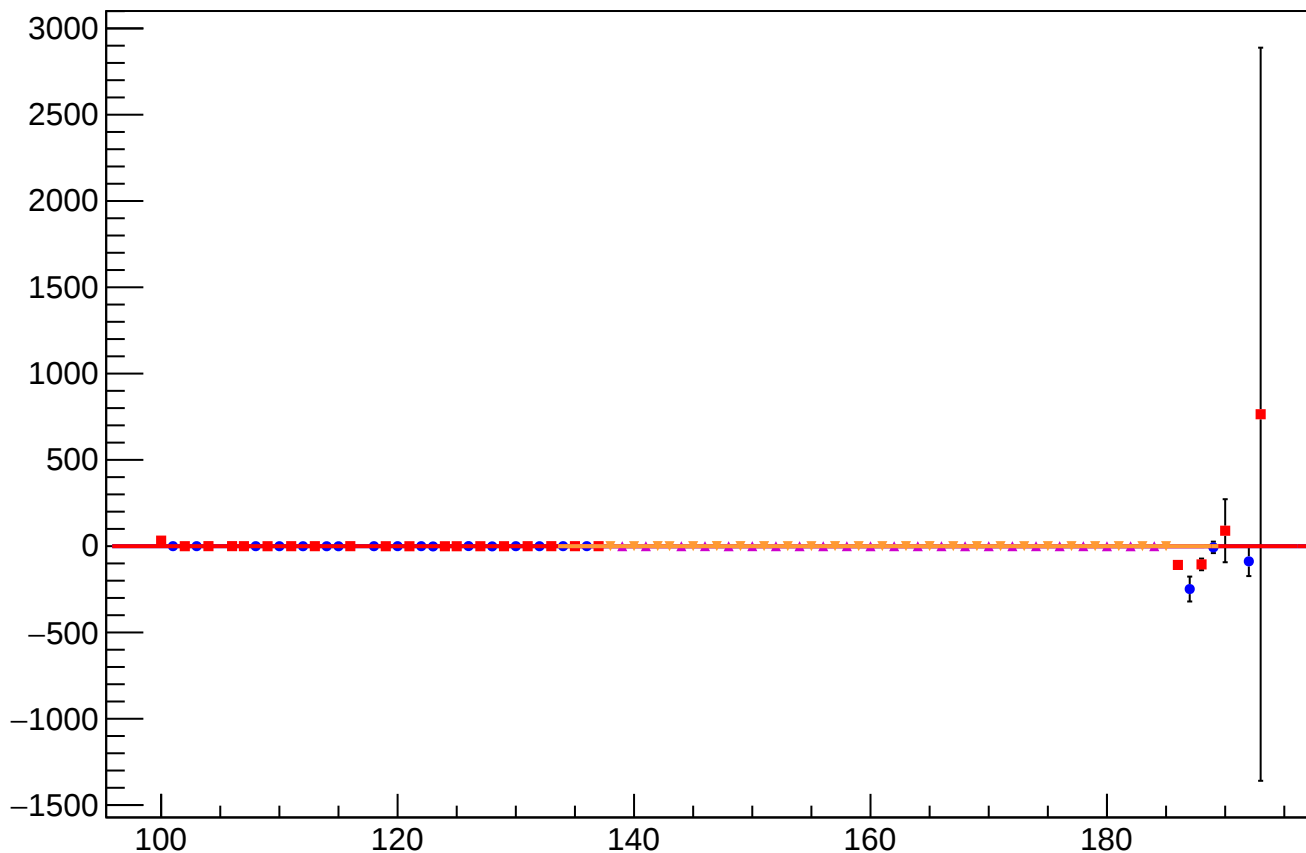
Right: -0.068 ± 0.027 χ^2/NDF : 58.0/42

In: -0.058 ± 0.019 χ^2/NDF : 84.3/42

Out: -0.073 ± 0.019 χ^2/NDF : 47.1/47

All: -0.066 ± 0.013 χ^2/NDF : 131.8/90

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 37.7/19$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 76.2/22$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

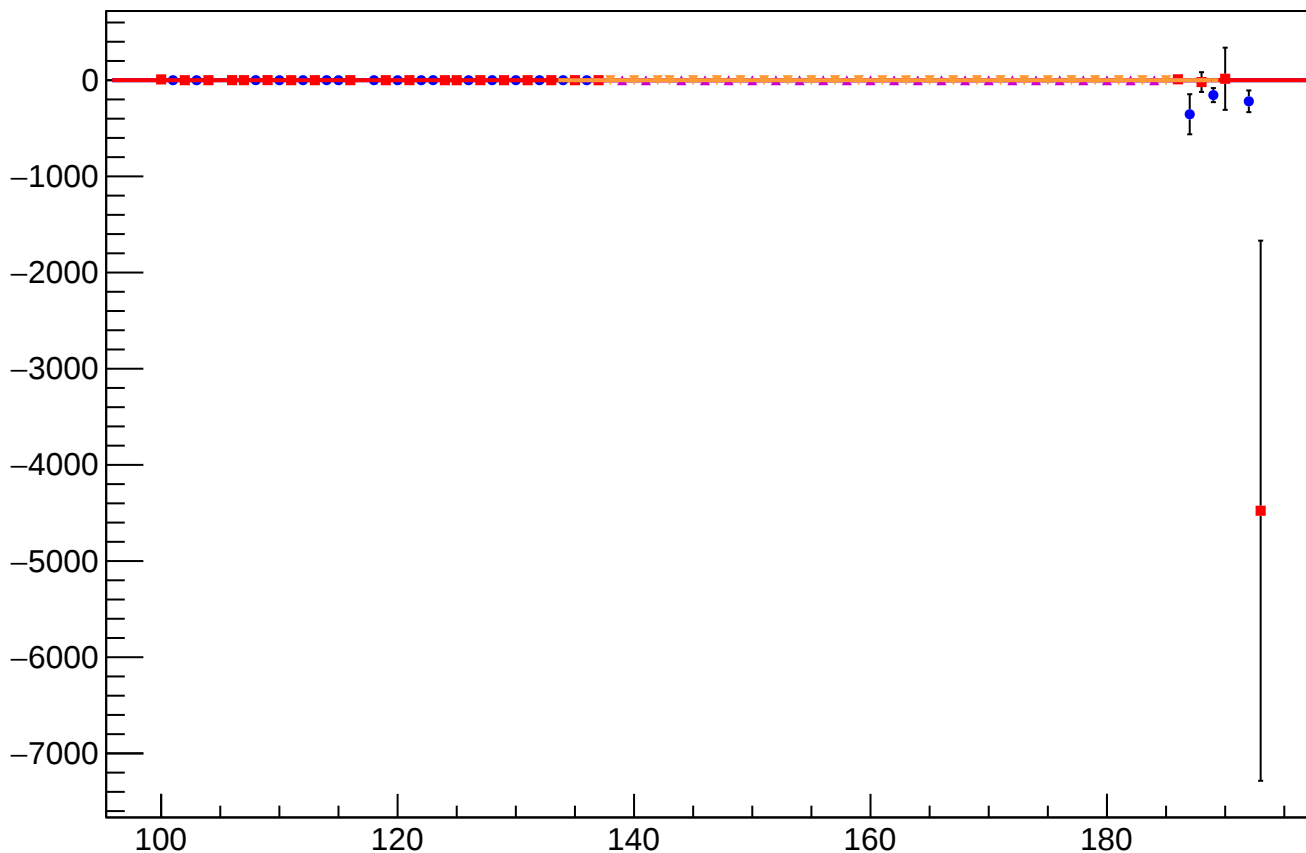
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 114.0/42$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 68.1/42$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 109.1/47$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 177.3/90$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 32.7/19

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 19.5/22

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

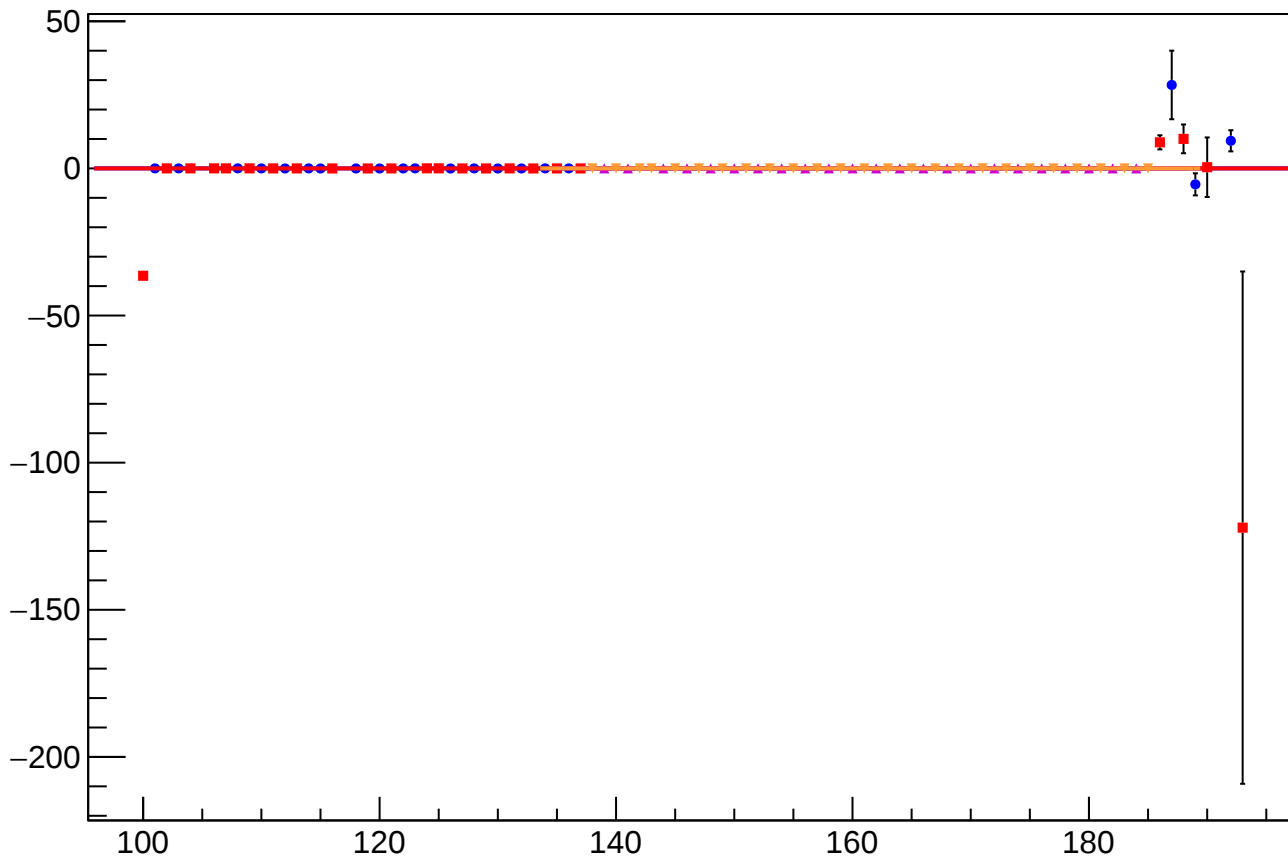
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 56.3/42

In: 0.056 $\pm$ 0.021 χ^2 /NDF:85.6/42

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:46.6/47

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 132.9/90

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 45.3/19

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF:26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10468.9/22

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

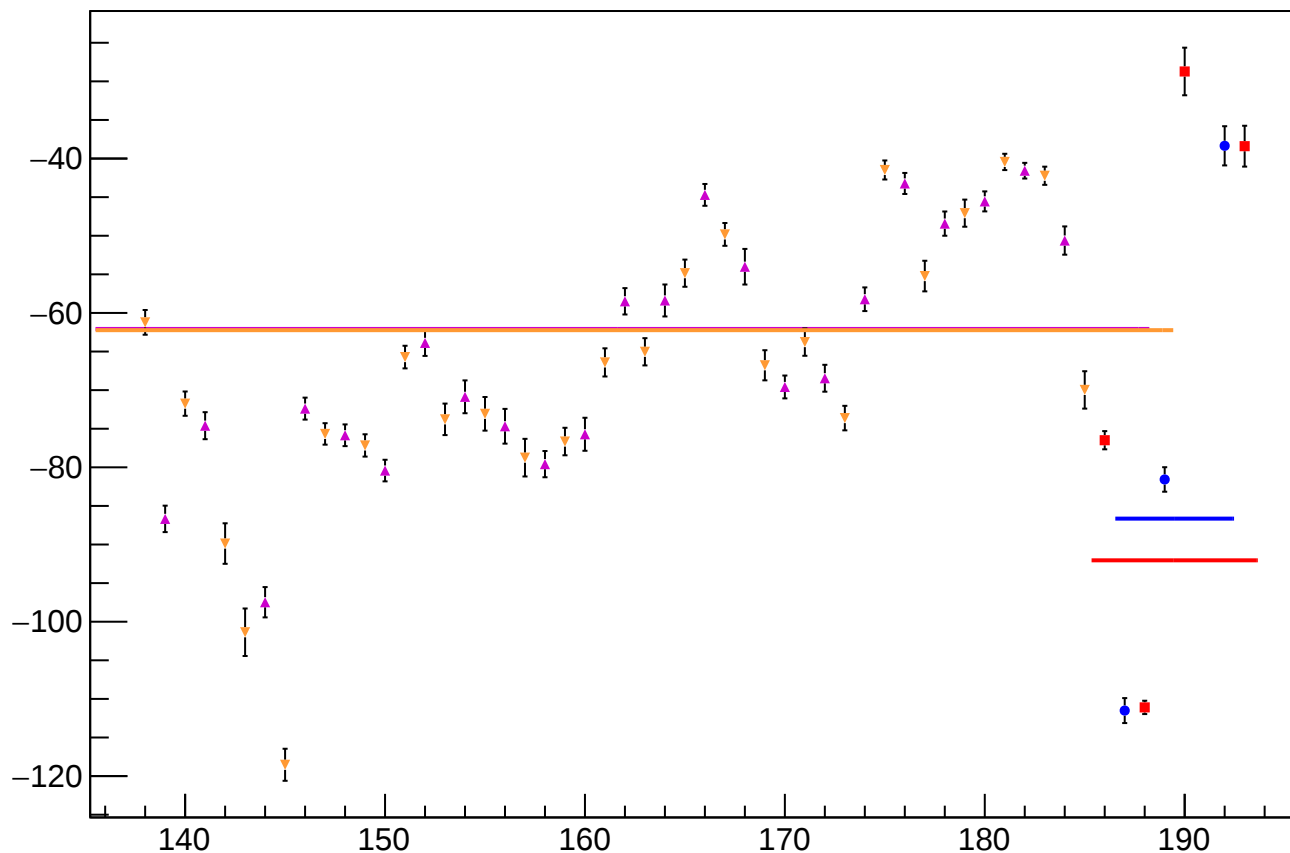
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10514.2/42

In: 0.007 $\pm$ 0.001 χ^2 /NDF:69.8/42

Out: 0.007 $\pm$ 0.001 χ^2 /NDF:10504.1/47

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10574.1/90

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected

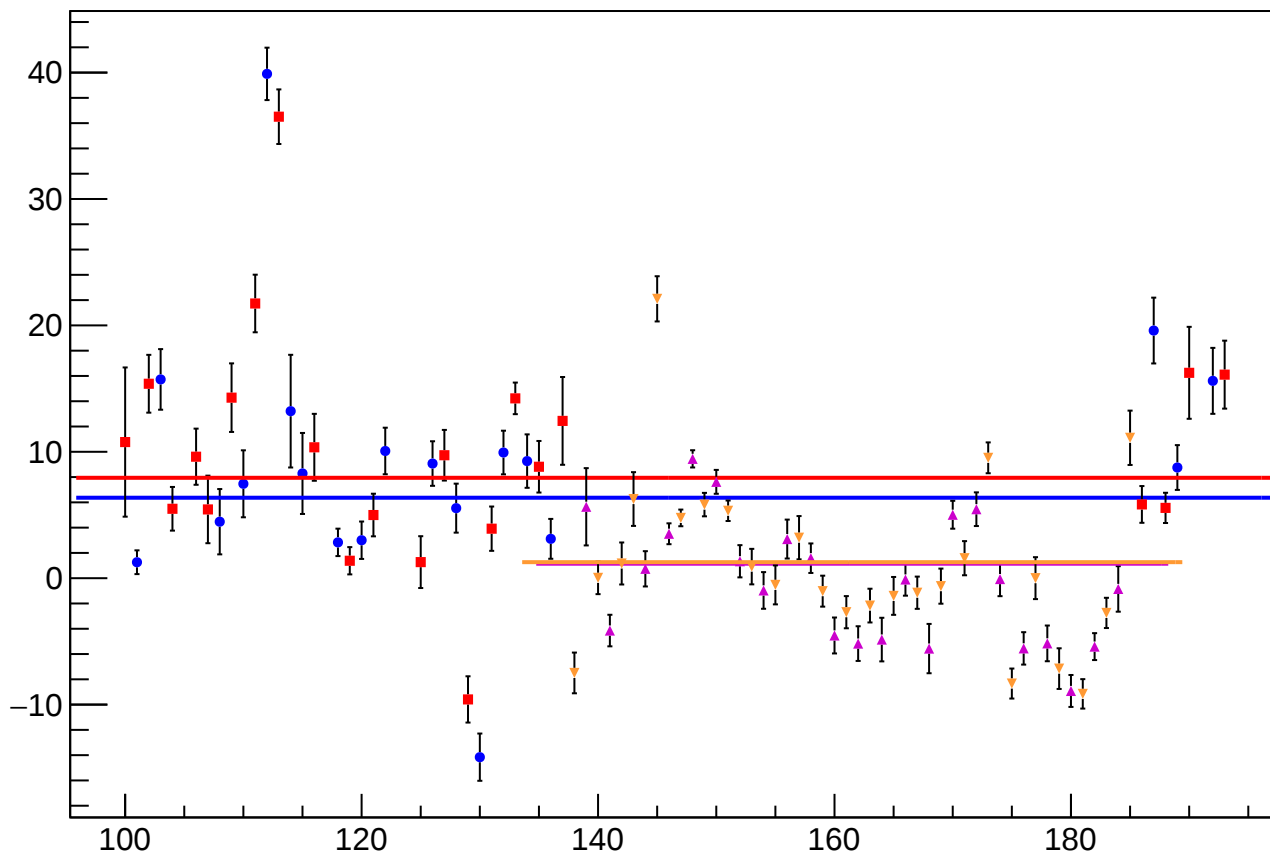


Right In: -86.645 $\pm$ 1.035 χ^2 /NDF: 608.4/2
 Left Out: -62.232 $\pm$ 0.332 χ^2 /NDF:2668.5/24
 Right Out: -92.048 $\pm$ 0.658 χ^2 /NDF: 1493.3/3
 Left In: -62.073 $\pm$ 0.332 χ^2 /NDF:2192.0/22

Left: -62.153 $\pm$ 0.235 χ^2 /NDF: 4860.6/47
 Right: -90.491 $\pm$ 0.555 χ^2 /NDF: 2121.1/6
 In: -64.371 $\pm$ 0.316 χ^2 /NDF:3311.6/25
 Out: -68.276 $\pm$ 0.296 χ^2 /NDF:5797.4/28

All: -66.451 $\pm$ 0.216 χ^2 /NDF: 9190.1/54

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.367 ± 0.407 $\chi^2/\text{NDF}: 503.3/18$

Left Out: 1.269 ± 0.251 $\chi^2/\text{NDF}: 531.9/24$

Right Out: 7.943 ± 0.400 $\chi^2/\text{NDF}: 428.3/21$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.208 ± 0.179 $\chi^2/\text{NDF}: 995.0/47$

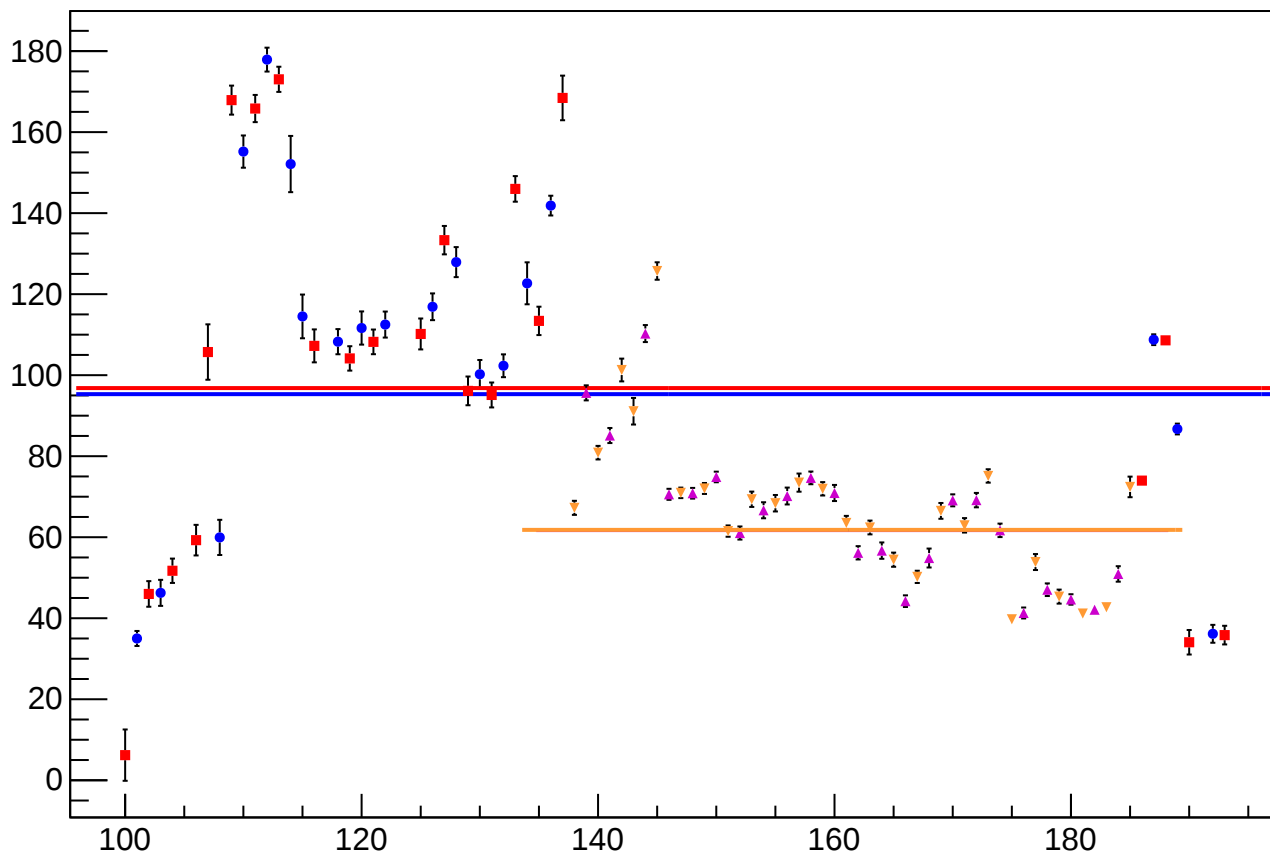
Right: 7.170 ± 0.285 $\chi^2/\text{NDF}: 939.2/40$

In: 2.619 ± 0.216 $\chi^2/\text{NDF}: 1084.1/41$

Out: 3.153 ± 0.212 $\chi^2/\text{NDF}: 1160.2/46$

All: 2.891 ± 0.152 $\chi^2/\text{NDF}: 2247.4/88$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 95.317 $\pm$ 0.593 χ^2 /NDF: 3893.1/18

Left Out: 61.812 $\pm$ 0.331 χ^2 /NDF: 2686.4/24

Right Out: 96.815 $\pm$ 0.451 χ^2 /NDF: 4796.4/21

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

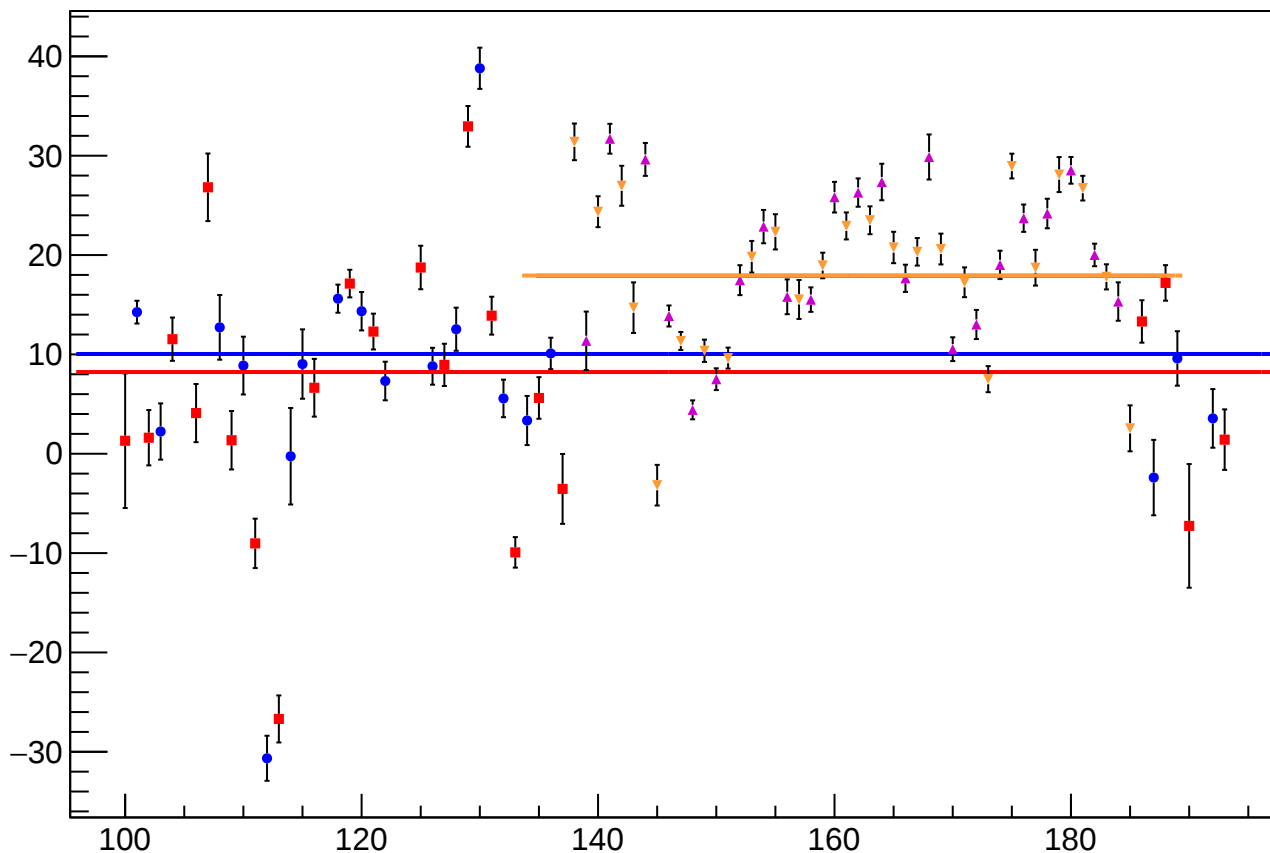
Right: 96.266 $\pm$ 0.359 χ^2 /NDF: 8693.6/40

In: 69.700 $\pm$ 0.288 χ^2 /NDF: 8757.6/41

Out: 74.064 $\pm$ 0.267 χ^2 /NDF: 11405.8/46

All: 72.053 $\pm$ 0.196 χ^2 /NDF: 20286.9/88

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.041 ± 0.480 $\chi^2/\text{NDF}: 594.2/18$

Left Out: 17.937 ± 0.289 $\chi^2/\text{NDF}: 676.0/24$

Right Out: 8.226 ± 0.482 $\chi^2/\text{NDF}: 730.7/21$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.927 ± 0.206 $\chi^2/\text{NDF}: 1402.5/47$

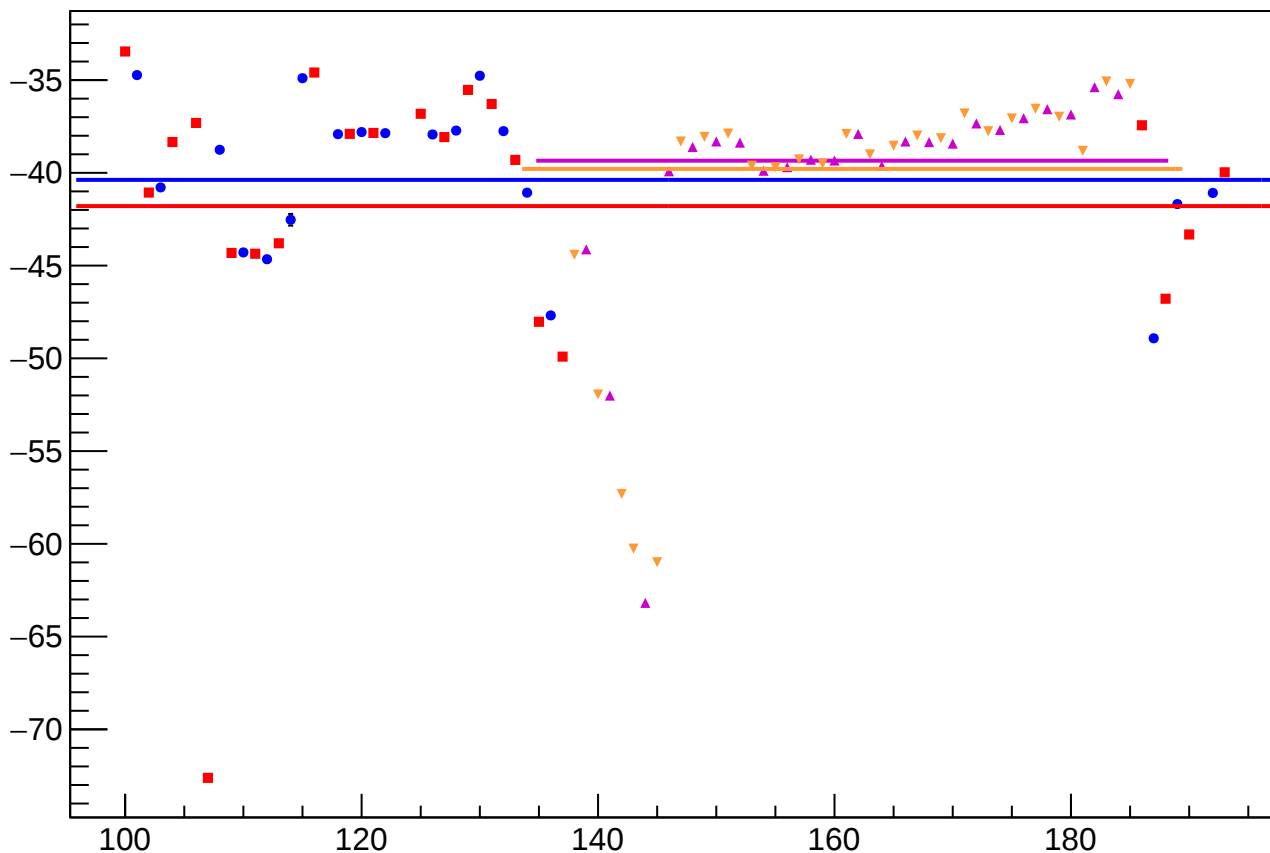
Right: 9.138 ± 0.340 $\chi^2/\text{NDF}: 1332.0/40$

In: 15.783 ± 0.250 $\chi^2/\text{NDF}: 1517.2/41$

Out: 15.369 ± 0.248 $\chi^2/\text{NDF}: 1705.4/46$

All: 15.575 ± 0.176 $\chi^2/\text{NDF}: 3224.0/88$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.378 ± 0.026 χ^2/NDF : 26901.1/18

Left Out: -39.788 ± 0.014 χ^2/NDF : 165493.8/24

Right Out: -41.793 ± 0.026 χ^2/NDF : 65918.1/21

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.565 ± 0.010 χ^2/NDF : 282639.2/47

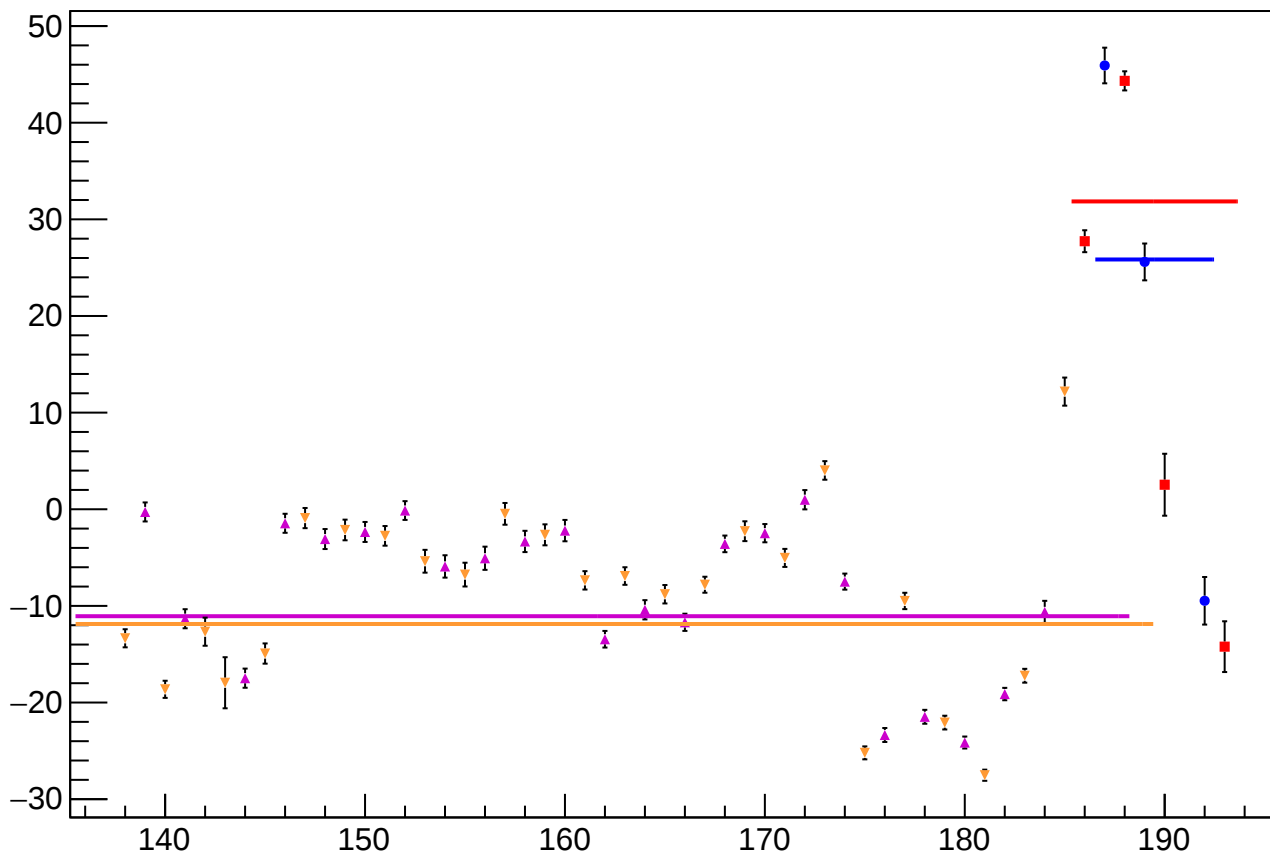
Right: -41.104 ± 0.018 χ^2/NDF : 94299.5/40

In: -39.562 ± 0.012 χ^2/NDF : 144735.0/41

Out: -40.230 ± 0.012 χ^2/NDF : 236169.4/46

All: -39.897 ± 0.009 χ^2/NDF : 382439.4/88

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



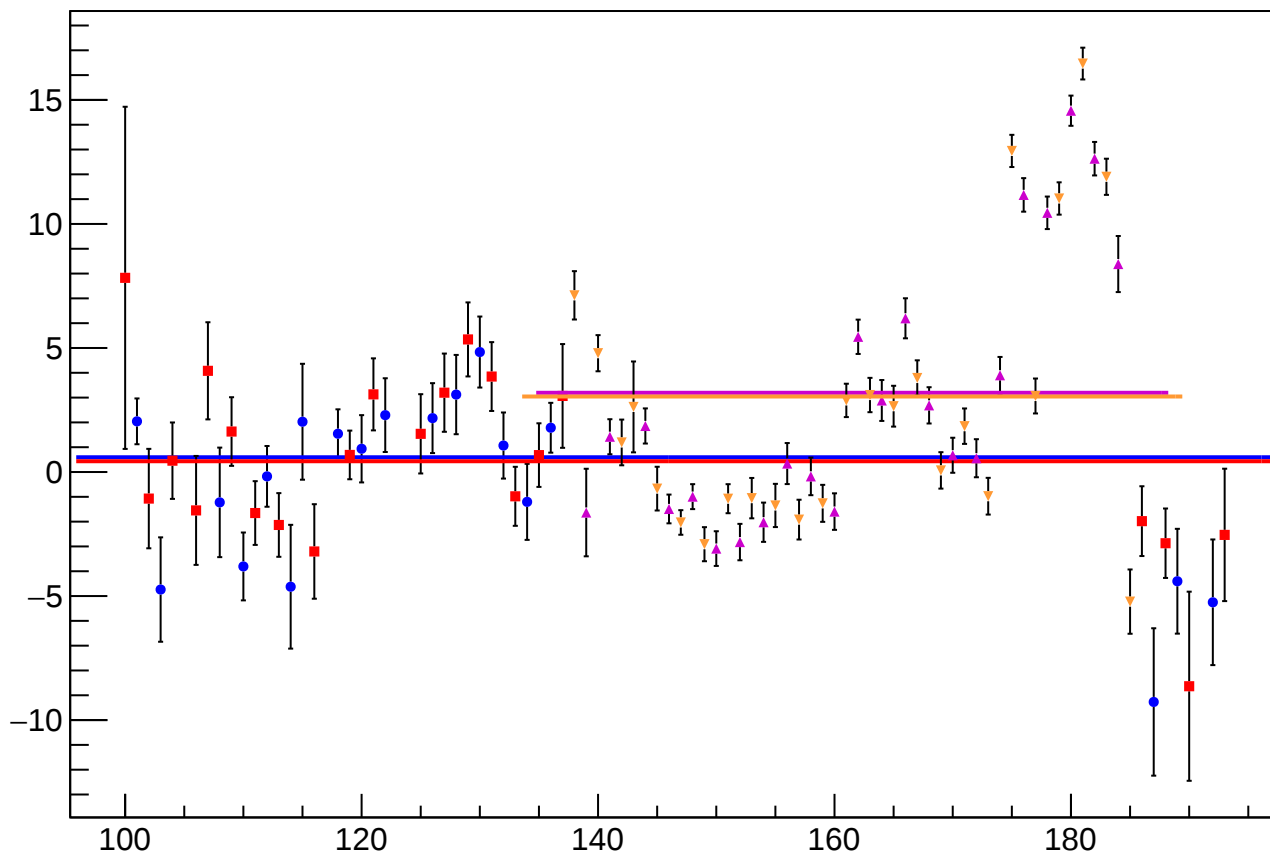
Right In: 25.847 $\pm$ 1.167 χ^2 /NDF: 324.2/2
 Left Out: -11.873 $\pm$ 0.186 χ^2 /NDF: 2745.2/24
 Right Out: 31.853 $\pm$ 0.700 χ^2 /NDF: 563.3/3
 Left In: -11.067 $\pm$ 0.188 χ^2 /NDF: 2104.8/22

Left: -11.473 $\pm$ 0.132 χ^2 /NDF: 4859.2/47
 Right: 30.263 $\pm$ 0.600 χ^2 /NDF: 907.0/6

In: -10.134 $\pm$ 0.186 χ^2 /NDF: 3404.0/25
 Out: -8.981 $\pm$ 0.180 χ^2 /NDF: 6949.3/28

All: -9.540 $\pm$ 0.129 χ^2 /NDF: 10373.2/54

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.595 ± 0.333 χ^2/NDF : 64.7/18

Left Out: 3.044 ± 0.147 χ^2/NDF : 1457.3/24

Right Out: 0.435 ± 0.329 χ^2/NDF : 59.4/21

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.118 ± 0.105 χ^2/NDF : 2752.7/47

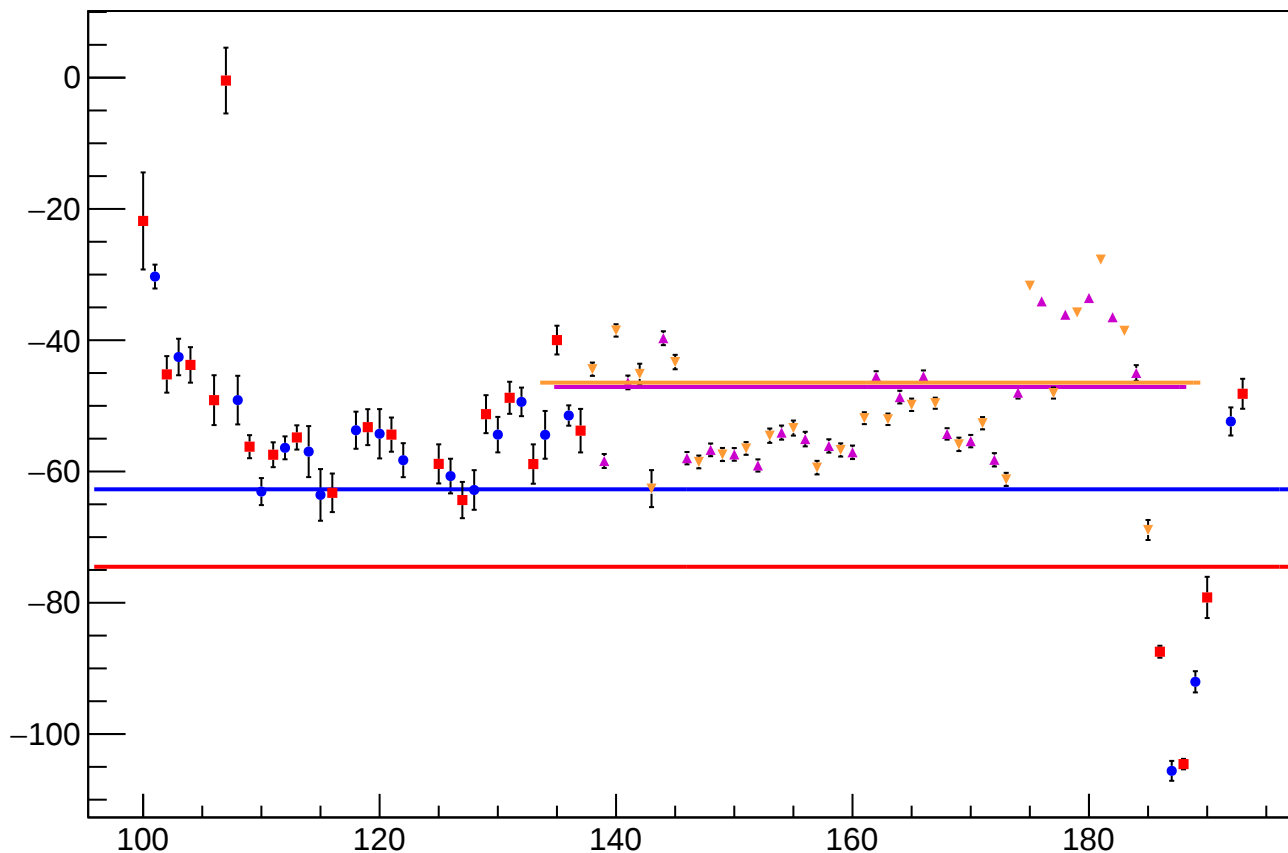
Right: 0.514 ± 0.234 χ^2/NDF : 124.3/40

In: 2.755 ± 0.137 χ^2/NDF : 1410.4/41

Out: 2.609 ± 0.135 χ^2/NDF : 1569.0/46

All: 2.681 ± 0.096 χ^2/NDF : 2980.0/88

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.715 ± 0.522 $\chi^2/\text{NDF}: 1675.5/18$

Left Out: -46.463 ± 0.186 $\chi^2/\text{NDF}: 3319.7/24$

Right Out: -74.515 ± 0.419 $\chi^2/\text{NDF}: 3281.5/21$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.793 ± 0.132 $\chi^2/\text{NDF}: 5842.0/47$

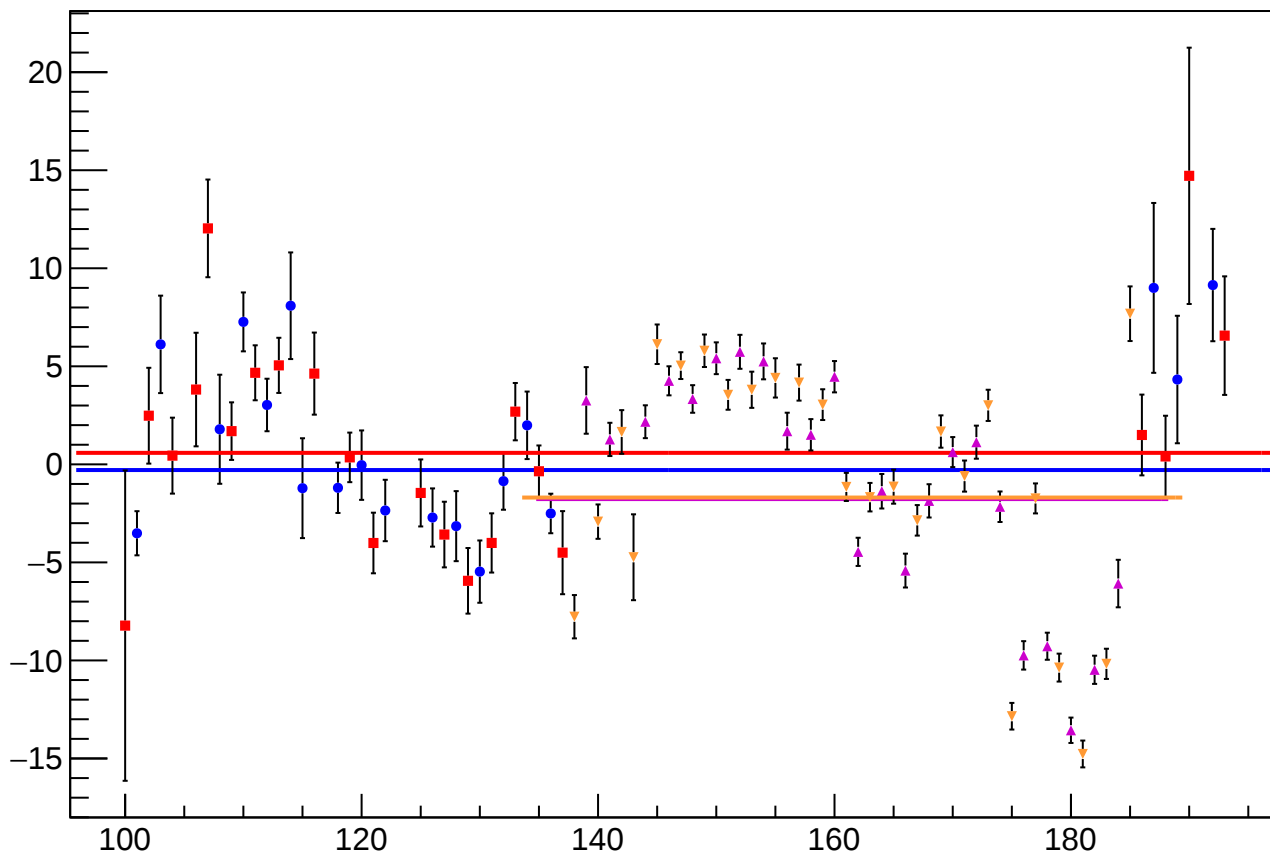
Right: -69.889 ± 0.327 $\chi^2/\text{NDF}: 5268.0/40$

In: -48.905 ± 0.176 $\chi^2/\text{NDF}: 4982.3/41$

Out: -51.088 ± 0.170 $\chi^2/\text{NDF}: 10345.0/46$

All: -50.035 ± 0.122 $\chi^2/\text{NDF}: 15406.7/88$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.290 ± 0.380 χ^2/NDF : 98.8/18

Left Out: -1.693 ± 0.167 χ^2/NDF : 1485.7/24

Right Out: 0.586 ± 0.382 χ^2/NDF : 105.2/21

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.731 ± 0.119 χ^2/NDF : 2737.1/47

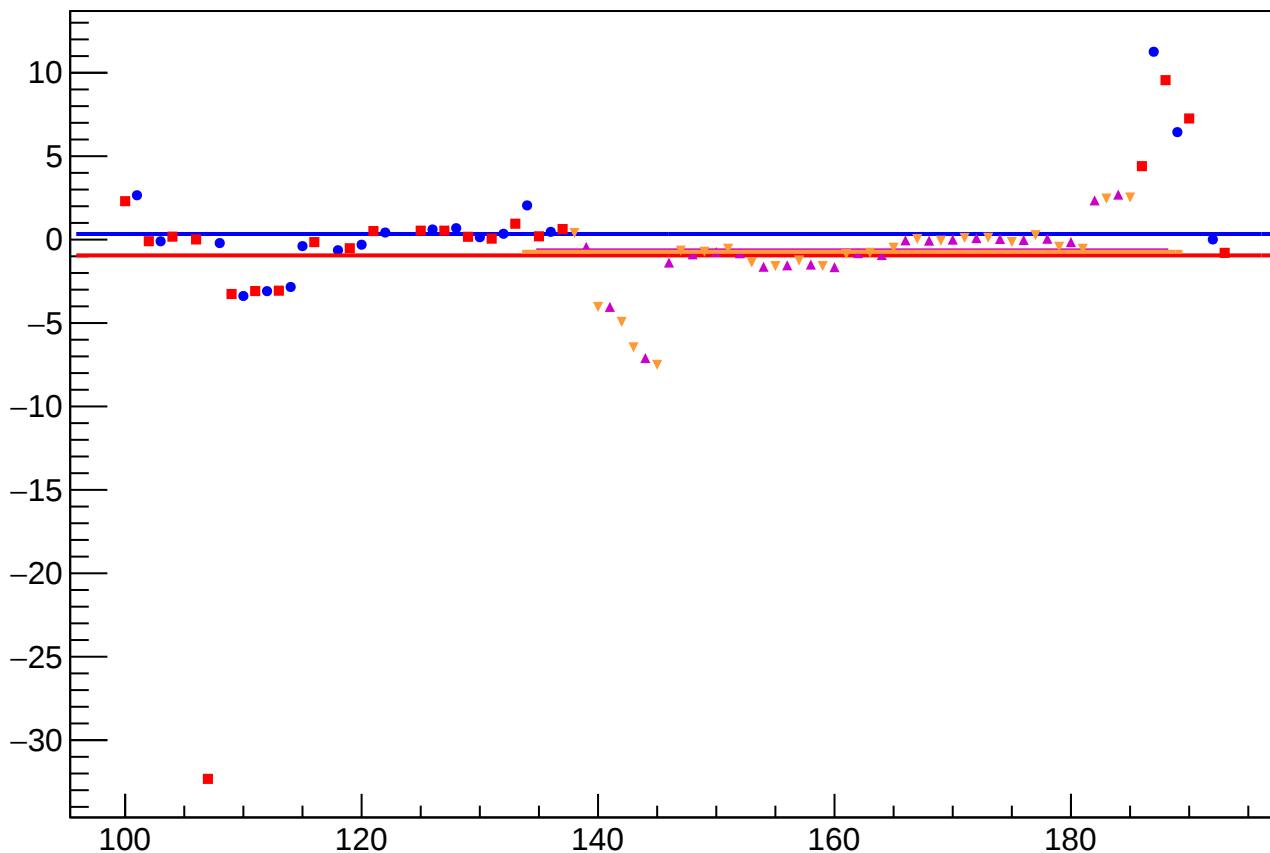
Right: 0.145 ± 0.269 χ^2/NDF : 206.6/40

In: -1.527 ± 0.154 χ^2/NDF : 1362.7/41

Out: -1.329 ± 0.153 χ^2/NDF : 1620.8/46

All: -1.427 ± 0.109 χ^2/NDF : 2984.3/88

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.021 χ^2 /NDF: 9105.1/18

Left Out: -0.728 $\pm$ 0.008 χ^2 /NDF:56403.8/24

Right Out: -0.946 $\pm$ 0.021 χ^2 /NDF: 92232.1/21

Left In: -0.644 $\pm$ 0.008 χ^2 /NDF:44169.2/22

Left: -0.686 $\pm$ 0.005 χ^2 /NDF: 100633.3/47

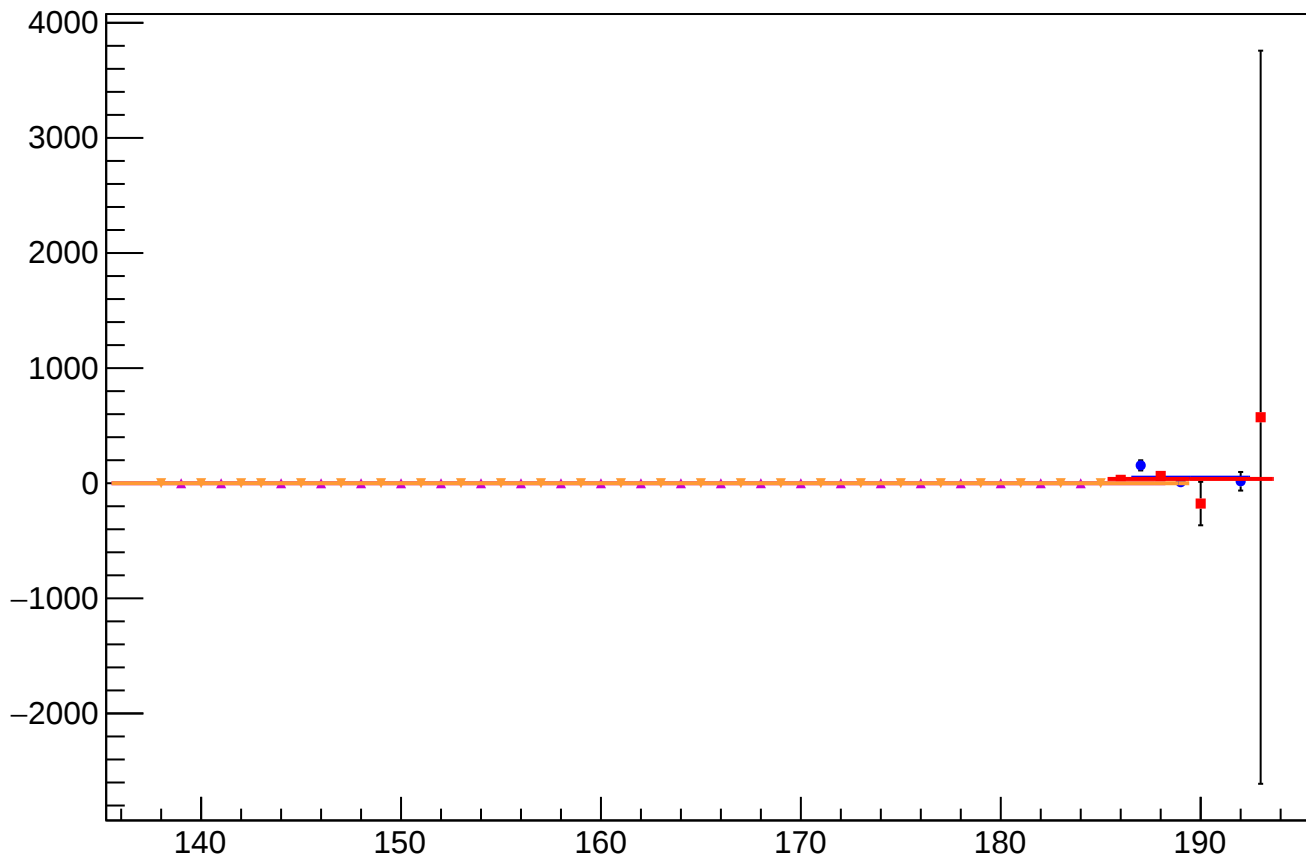
Right: -0.310 $\pm$ 0.015 χ^2 /NDF: 103272.7/40

In: -0.526 $\pm$ 0.007 χ^2 /NDF:55248.5/41

Out: -0.754 $\pm$ 0.007 χ^2 /NDF:148734.8/46

All: -0.641 $\pm$ 0.005 χ^2 /NDF: 204492.3/88

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 48.273+/-22.731 χ^2/NDF : 8.0/2

Left Out: -0.036+/-0.018 χ^2/NDF : 35.6/24

Right Out: 37.402+/-10.447 χ^2/NDF : 3.3/3

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.023+/-0.013 χ^2/NDF : 71.8/47

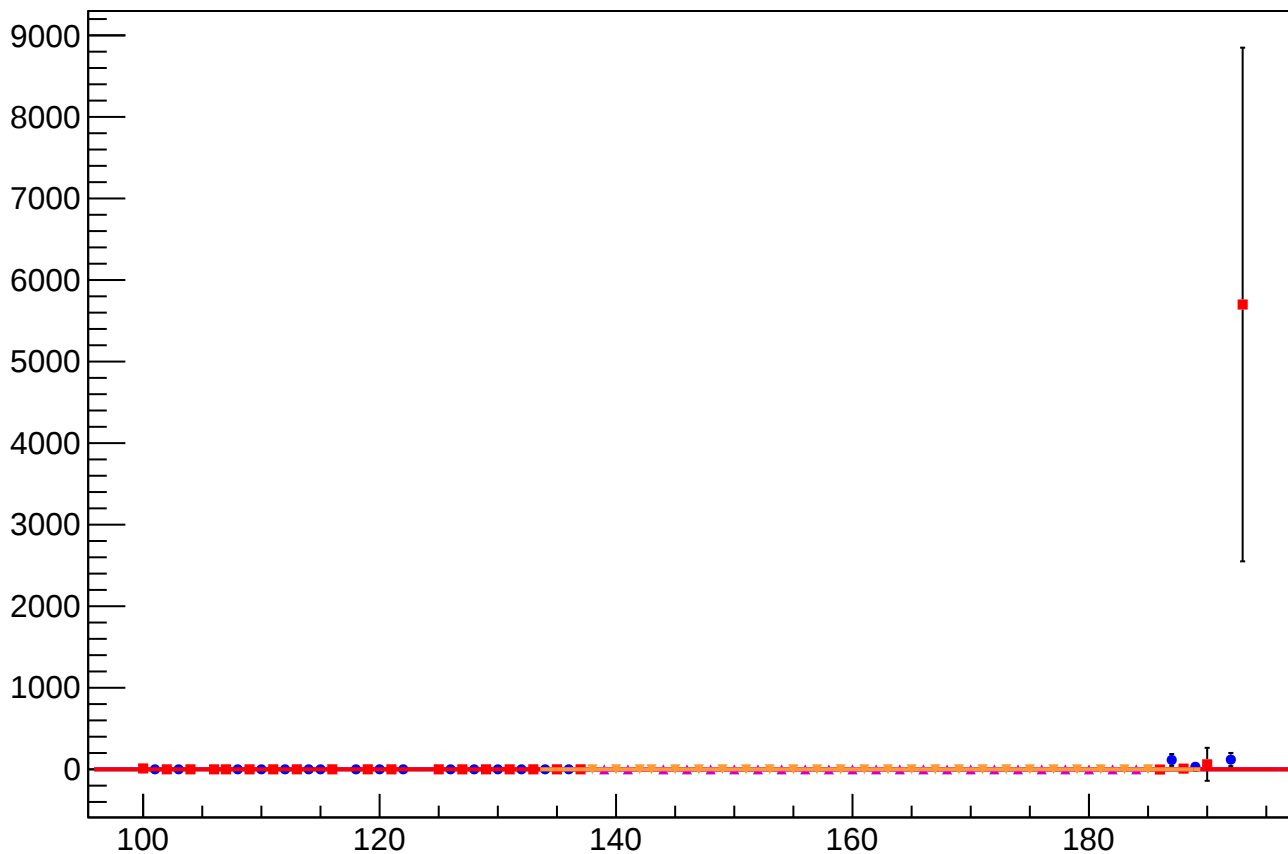
Right: 39.298+/-9.492 χ^2/NDF : 11.4/6

In: -0.010+/-0.018 χ^2/NDF : 47.6/25

Out: -0.036+/-0.018 χ^2/NDF : 51.7/28

All: -0.023+/-0.013 χ^2/NDF : 100.4/54

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 17.7/18$

Left Out: -0.071 ± 0.014 $\chi^2/\text{NDF}: 28.3/24$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 16.4/21$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.067 ± 0.010 $\chi^2/\text{NDF}: 69.5/47$

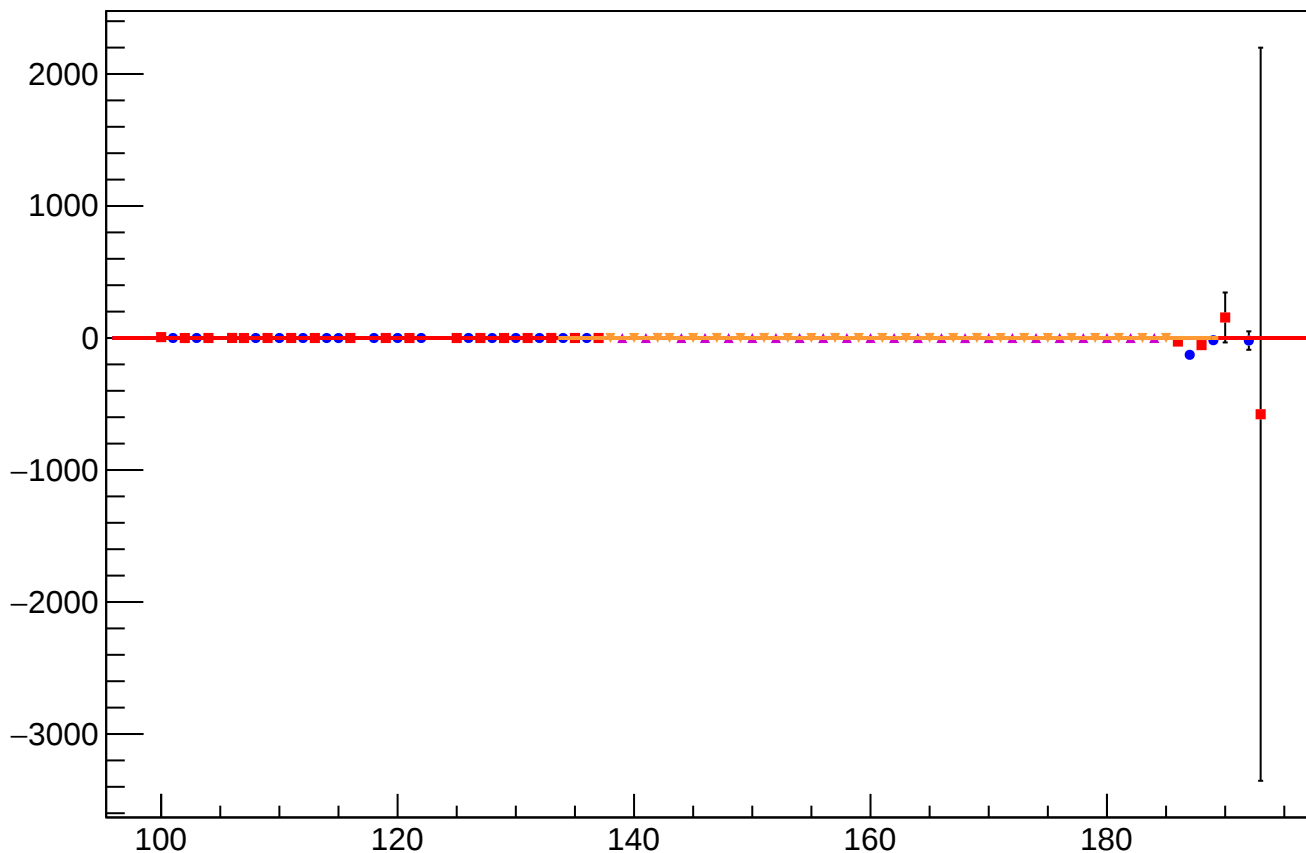
Right: -0.049 ± 0.017 $\chi^2/\text{NDF}: 38.8/40$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 62.1/41$

Out: -0.075 ± 0.012 $\chi^2/\text{NDF}: 45.0/46$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 109.2/88$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 22.1/18

Left Out: 0.033 $\pm$ 0.018 χ^2 /NDF:32.6/24

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 27.7/21

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.2/47

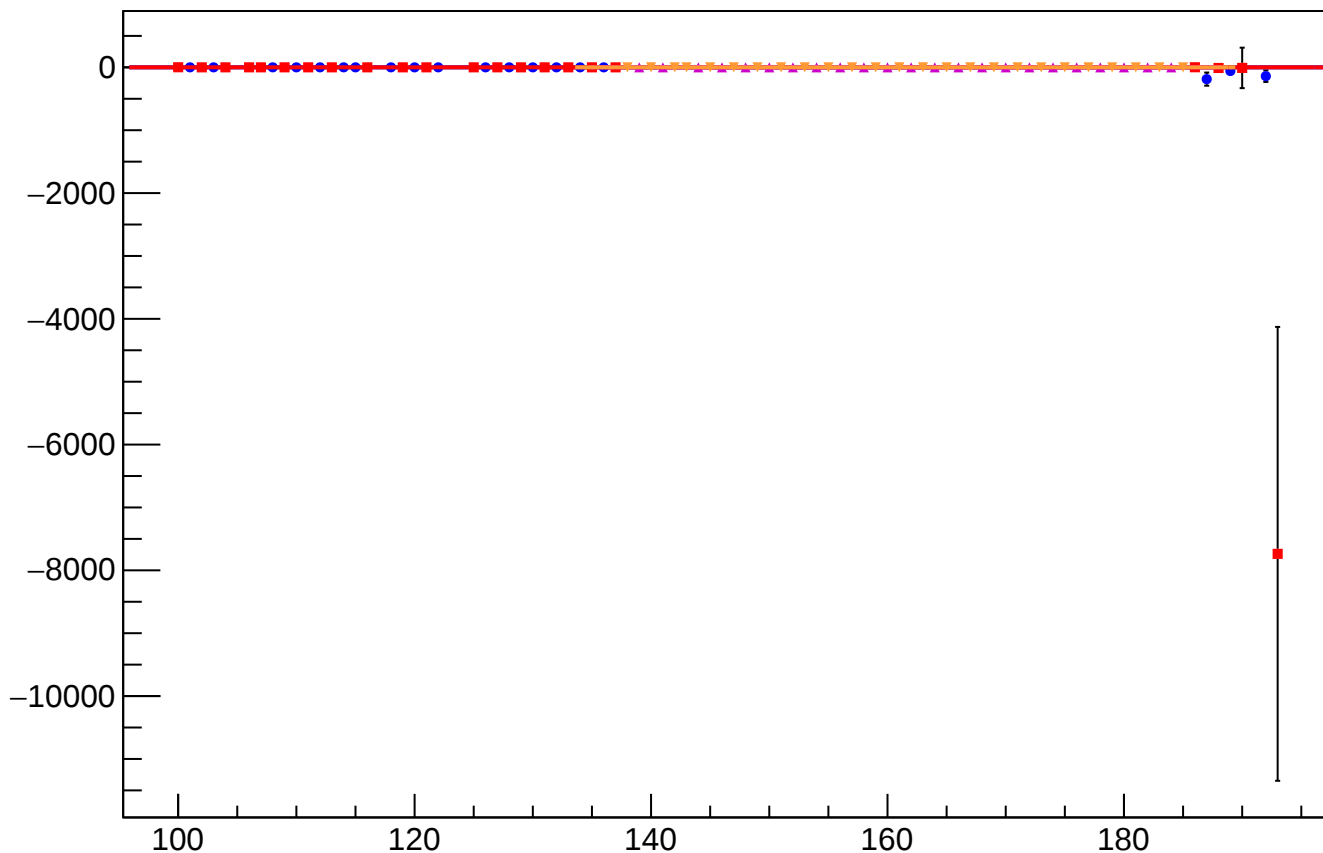
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 49.8/40

In: -0.005 $\pm$ 0.017 χ^2 /NDF:59.2/41

Out: 0.033 $\pm$ 0.016 χ^2 /NDF:60.3/46

All: 0.014 $\pm$ 0.012 χ^2 /NDF: 122.1/88

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 18.5/18

Left Out: 0.084 $\pm$ 0.016 χ^2 /NDF:28.1/24

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 12.8/21

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

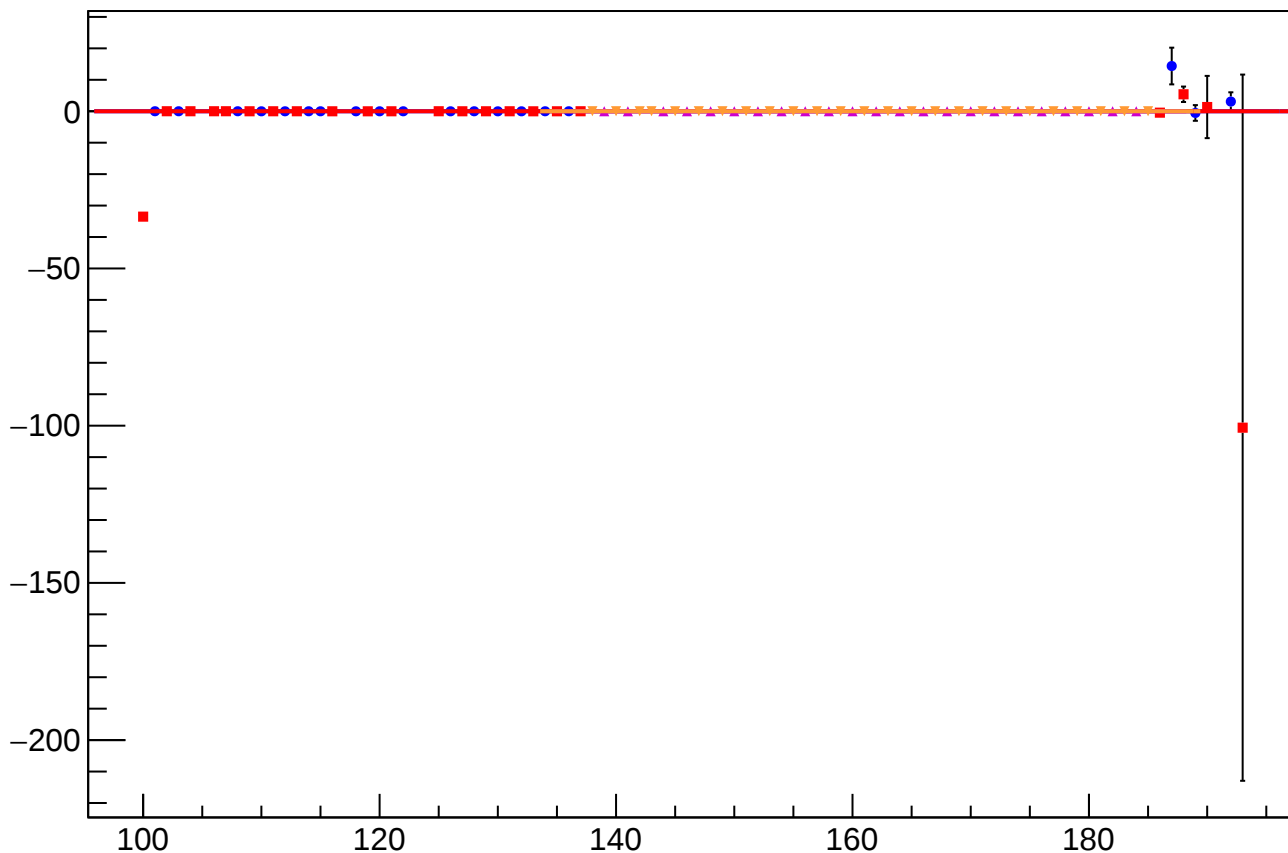
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 37.3/40

In: 0.053 $\pm$ 0.014 χ^2 /NDF:67.1/41

Out: 0.089 $\pm$ 0.014 χ^2 /NDF:41.3/46

All: 0.071 $\pm$ 0.010 χ^2 /NDF: 111.7/88

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 28.7/18

Left Out: 0.001 ± 0.001 χ^2/NDF : 26.1/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 26514.7/21

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 48.6/47

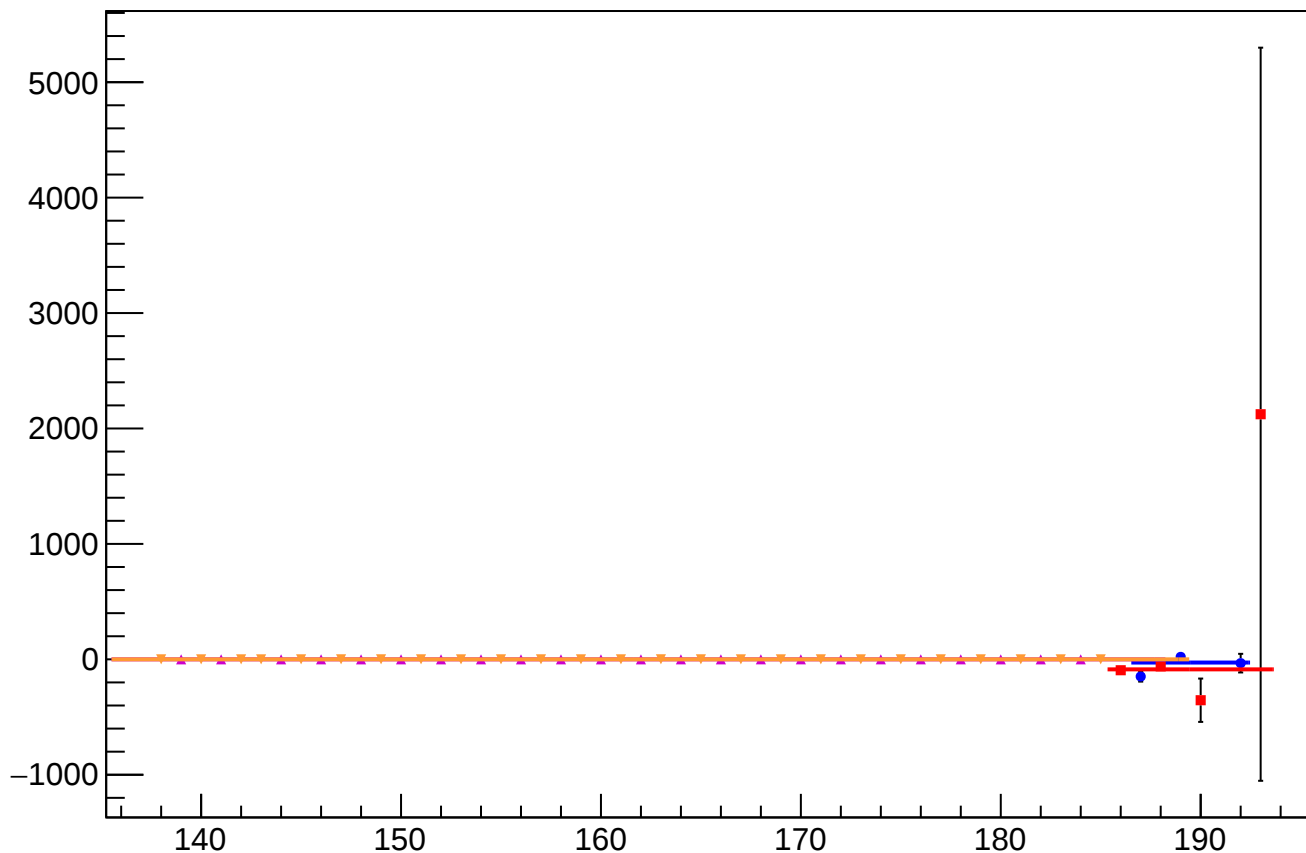
Right: -0.006 ± 0.001 χ^2/NDF : 26543.5/40

In: -0.001 ± 0.001 χ^2/NDF : 62.8/41

Out: -0.001 ± 0.001 χ^2/NDF : 26557.0/46

All: -0.001 ± 0.000 χ^2/NDF : 26619.9/88

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.825 ± 22.712 $\chi^2/\text{NDF}: 10.5/2$

Left Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 41.7/24$

Right Out: -86.911 ± 10.450 $\chi^2/\text{NDF}: 4.4/3$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.034 ± 0.013 $\chi^2/\text{NDF}: 80.7/47$

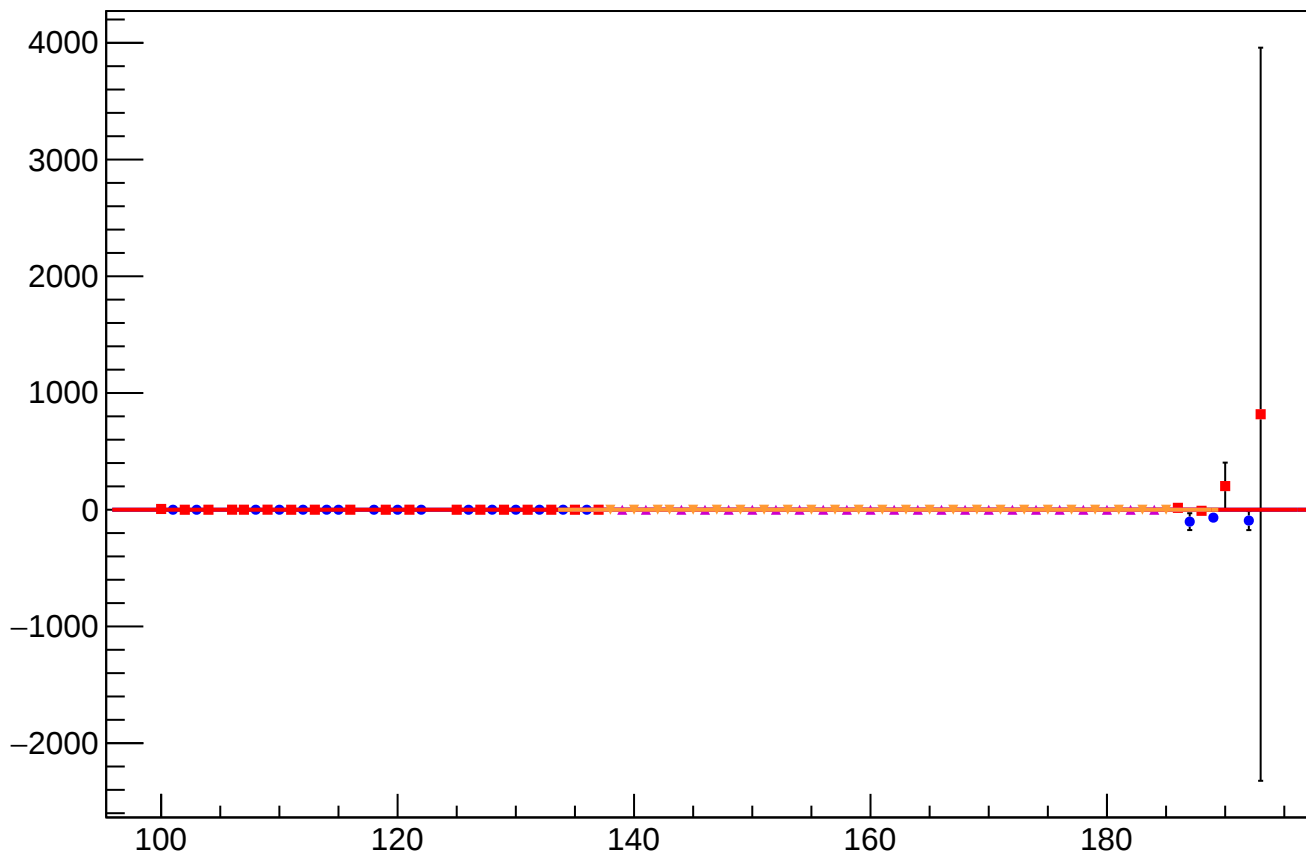
Right: -76.588 ± 9.493 $\chi^2/\text{NDF}: 20.6/6$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 47.1/25$

Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 115.2/28$

All: -0.035 ± 0.013 $\chi^2/\text{NDF}: 166.3/54$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 33.0/18

Left Out: -0.010+/-0.014 χ^2/NDF : 29.7/24

Right Out: 0.037+/-0.025 χ^2/NDF : 31.0/21

Left In: 0.005+/-0.014 χ^2/NDF : 49.6/22

Left: -0.003+/-0.010 χ^2/NDF : 79.8/47

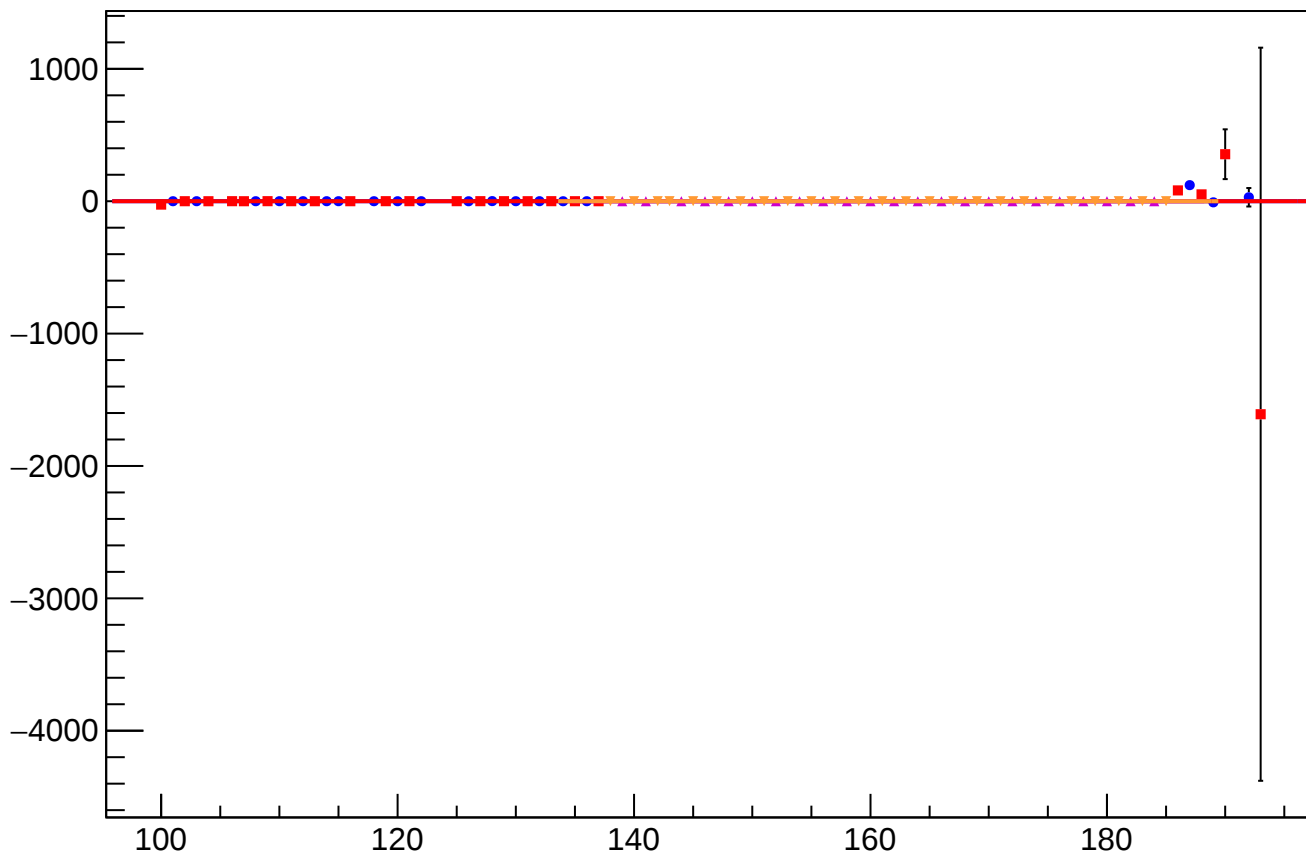
Right: 0.021+/-0.017 χ^2/NDF : 64.7/40

In: 0.006+/-0.012 χ^2/NDF : 82.6/41

Out: 0.001+/-0.012 χ^2/NDF : 63.4/46

All: 0.003+/-0.009 χ^2/NDF : 146.0/88

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 41.3/18

Left Out: 0.055+/-0.018 χ^2/NDF : 41.0/24

Right Out: 0.197+/-0.045 χ^2/NDF : 105.8/21

Left In: 0.020+/-0.018 χ^2/NDF : 35.8/22

Left: 0.038+/-0.013 χ^2/NDF : 78.7/47

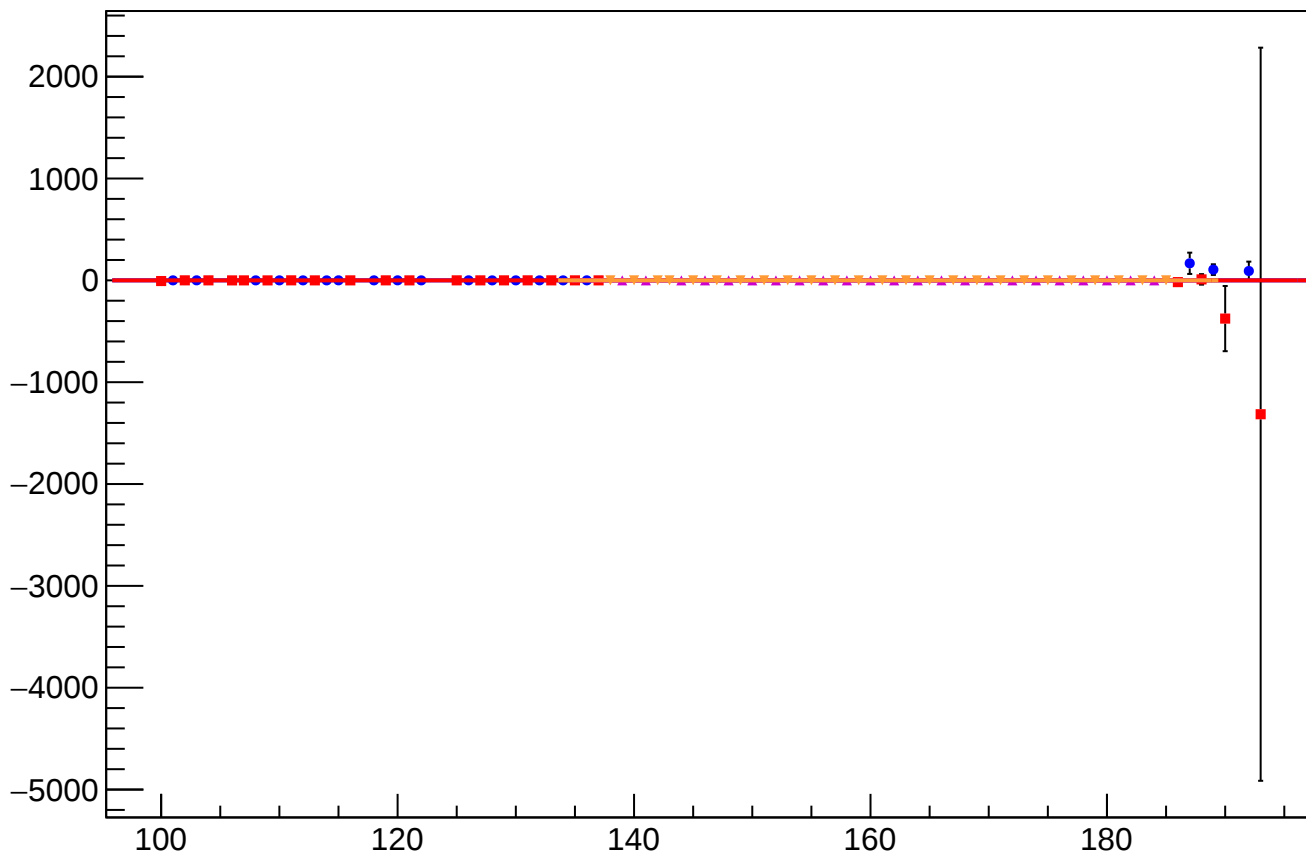
Right: 0.176+/-0.031 χ^2/NDF : 147.5/40

In: 0.040+/-0.017 χ^2/NDF : 85.7/41

Out: 0.074+/-0.016 χ^2/NDF : 155.4/46

All: 0.057+/-0.012 χ^2/NDF : 243.2/88

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 32.2/18

Left Out: 0.021 ± 0.016 χ^2/NDF : 33.4/24

Right Out: -0.046 ± 0.029 χ^2/NDF : 28.4/21

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 84.0/47

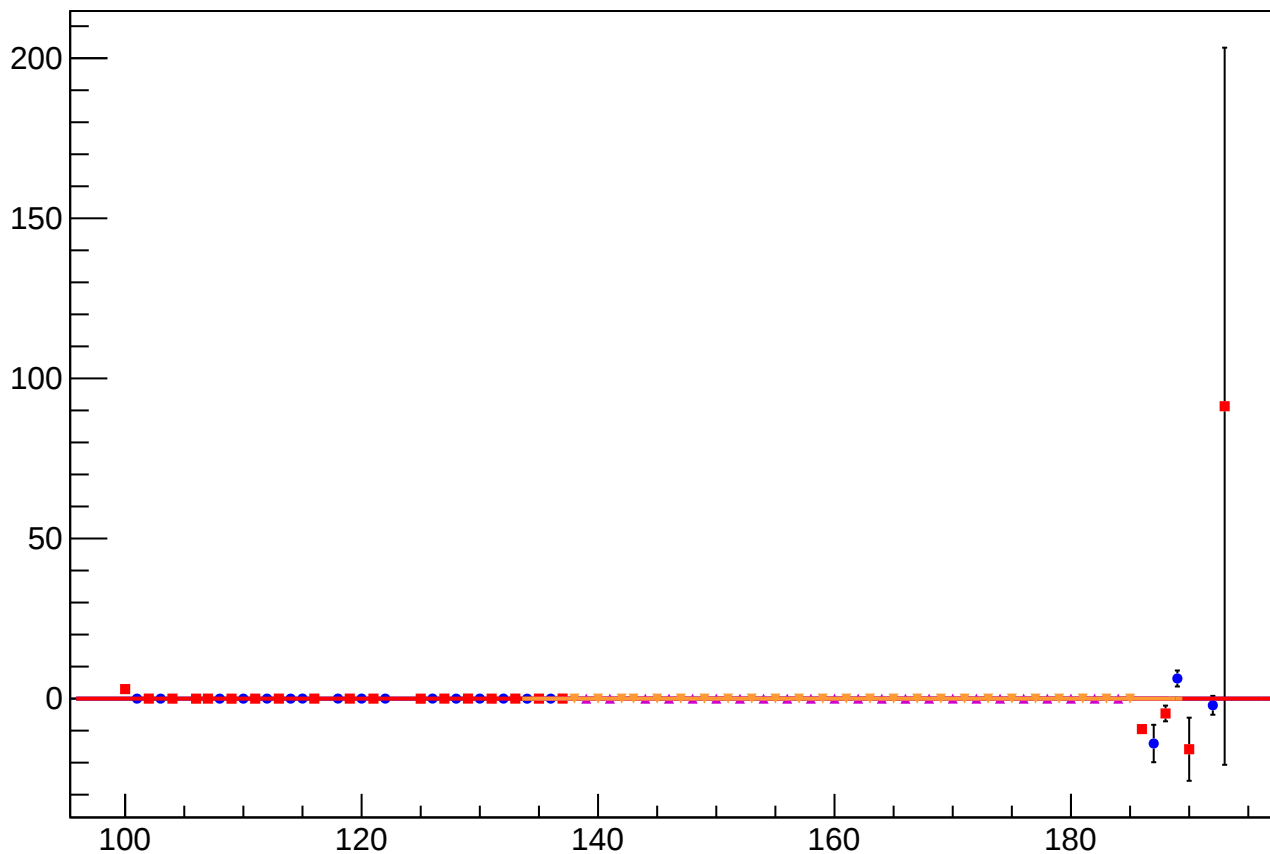
Right: -0.027 ± 0.020 χ^2/NDF : 61.5/40

In: 0.002 ± 0.014 χ^2/NDF : 82.6/41

Out: 0.005 ± 0.014 χ^2/NDF : 66.1/46

All: 0.003 ± 0.010 χ^2/NDF : 148.7/88

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 40.1/18

Left Out: -0.008+/-0.001 χ^2/NDF : 32.7/24

Right Out: -0.006+/-0.001 χ^2/NDF : 209.7/21

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 70.3/47

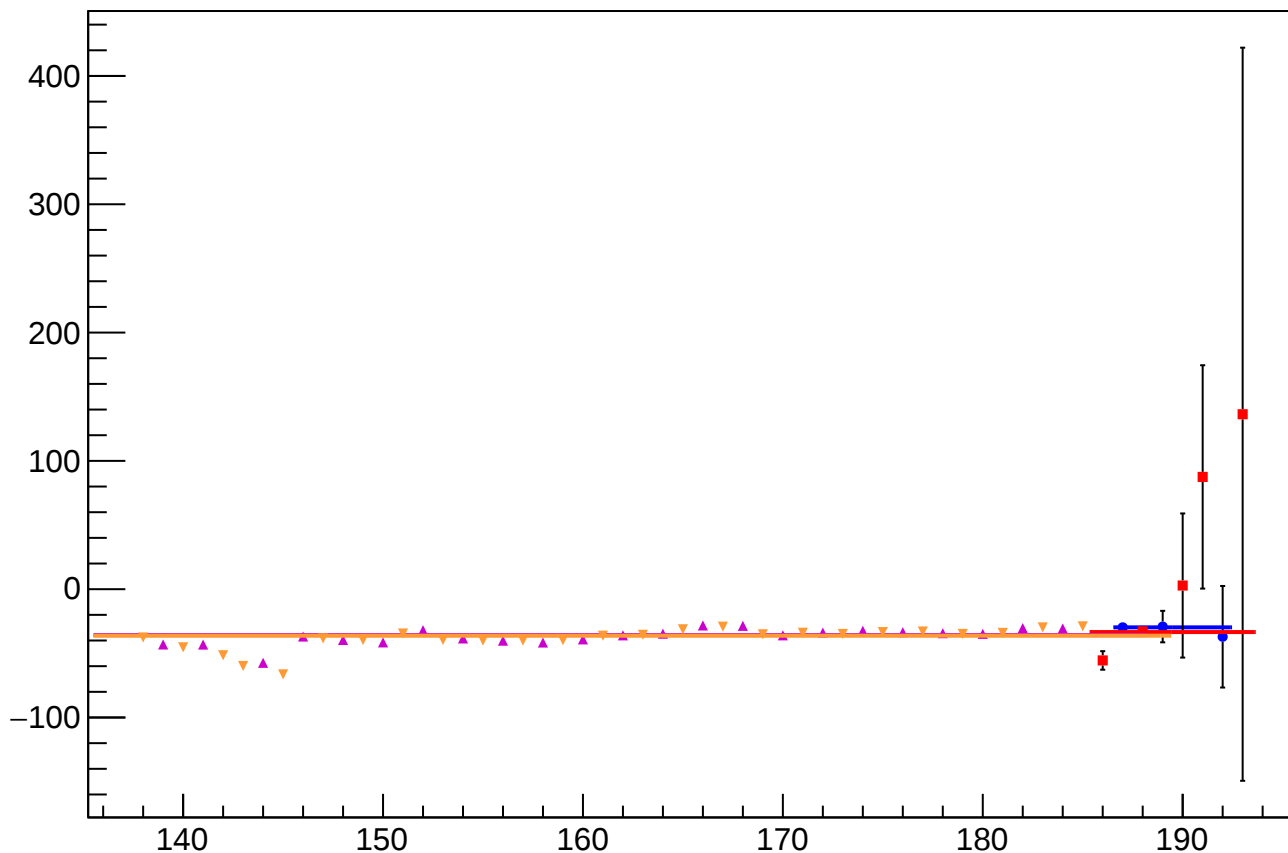
Right: -0.006+/-0.001 χ^2/NDF : 249.7/40

In: -0.008+/-0.001 χ^2/NDF : 79.8/41

Out: -0.008+/-0.001 χ^2/NDF : 244.3/46

All: -0.008+/-0.000 χ^2/NDF : 324.4/88

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.750 ± 1.851 χ^2/NDF : 0.0/2

Left Out: -36.243 ± 0.191 χ^2/NDF : 1193.9/24

Right Out: -33.410 ± 1.164 χ^2/NDF : 12.3/4

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -36.011 ± 0.135 χ^2/NDF : 2050.9/47

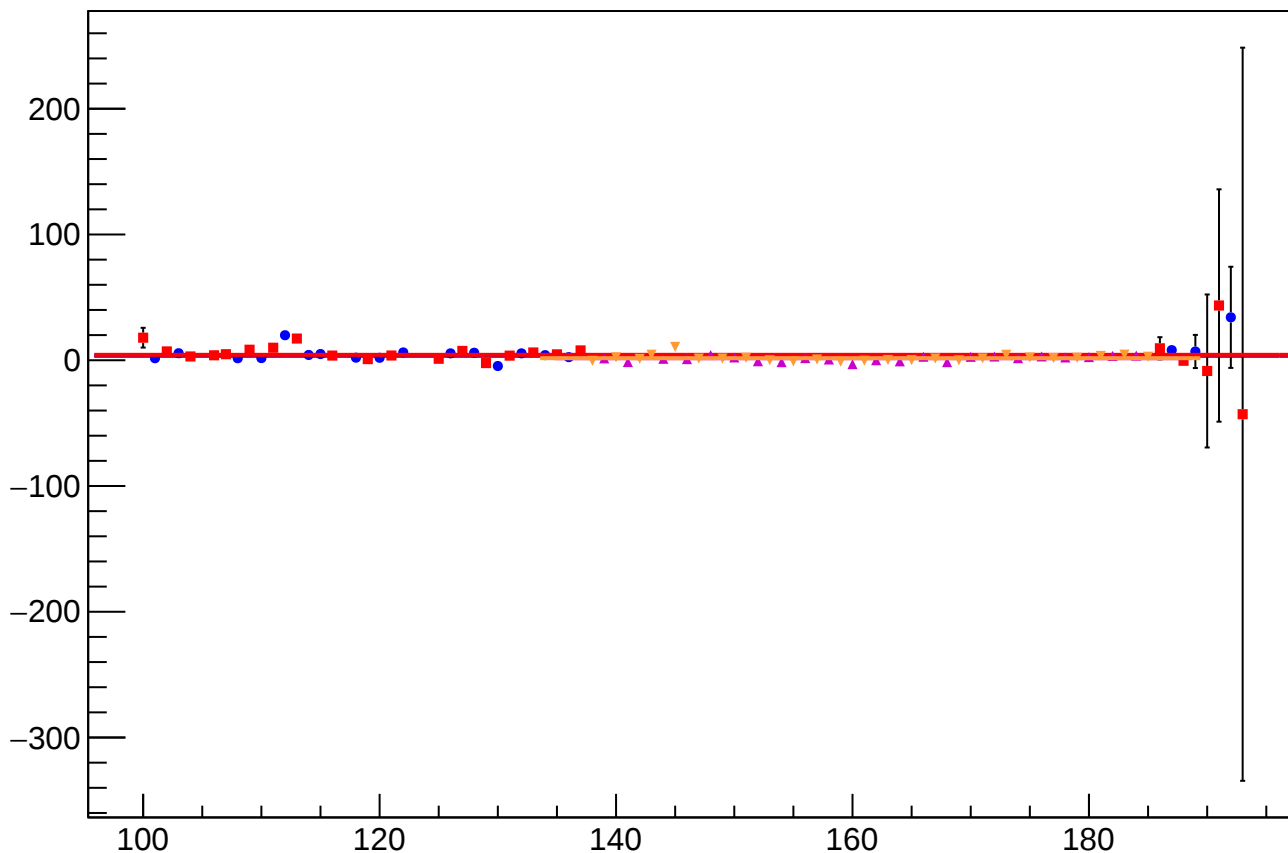
Right: -32.374 ± 0.985 χ^2/NDF : 15.1/7

In: -35.716 ± 0.190 χ^2/NDF : 864.6/25

Out: -36.168 ± 0.189 χ^2/NDF : 1212.0/29

All: -35.944 ± 0.134 χ^2/NDF : 2079.4/55

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.578+/-0.220 χ^2/NDF : 442.8/18

Left Out: 1.652+/-0.147 χ^2/NDF :168.8/24

Right Out: 4.310+/-0.224 χ^2/NDF : 360.1/22

Left In: 1.641+/-0.150 χ^2/NDF :163.2/22

Left: 1.647+/-0.105 χ^2/NDF : 332.0/47

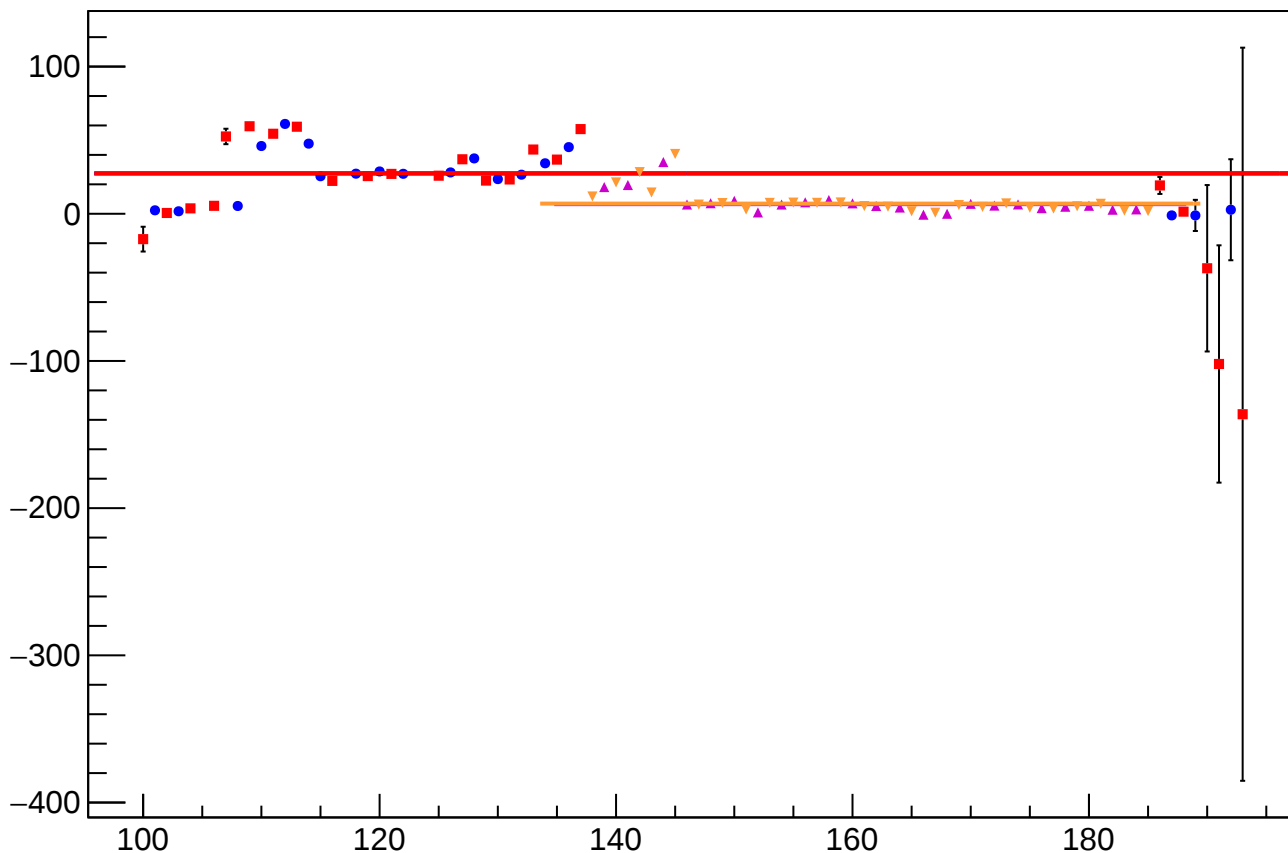
Right: 3.938+/-0.157 χ^2/NDF : 808.3/41

In: 2.253+/-0.124 χ^2/NDF :659.0/41

Out: 2.457+/-0.123 χ^2/NDF :627.5/47

All: 2.355+/-0.087 χ^2/NDF : 1287.8/89

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.328 $\pm$ 0.405 χ^2 /NDF: 1864.6/18

Left Out: 6.900 $\pm$ 0.191 χ^2 /NDF:1302.8/24

Right Out: 27.583 $\pm$ 0.386 χ^2 /NDF: 2569.2/22

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.718 $\pm$ 0.135 χ^2 /NDF: 2329.7/47

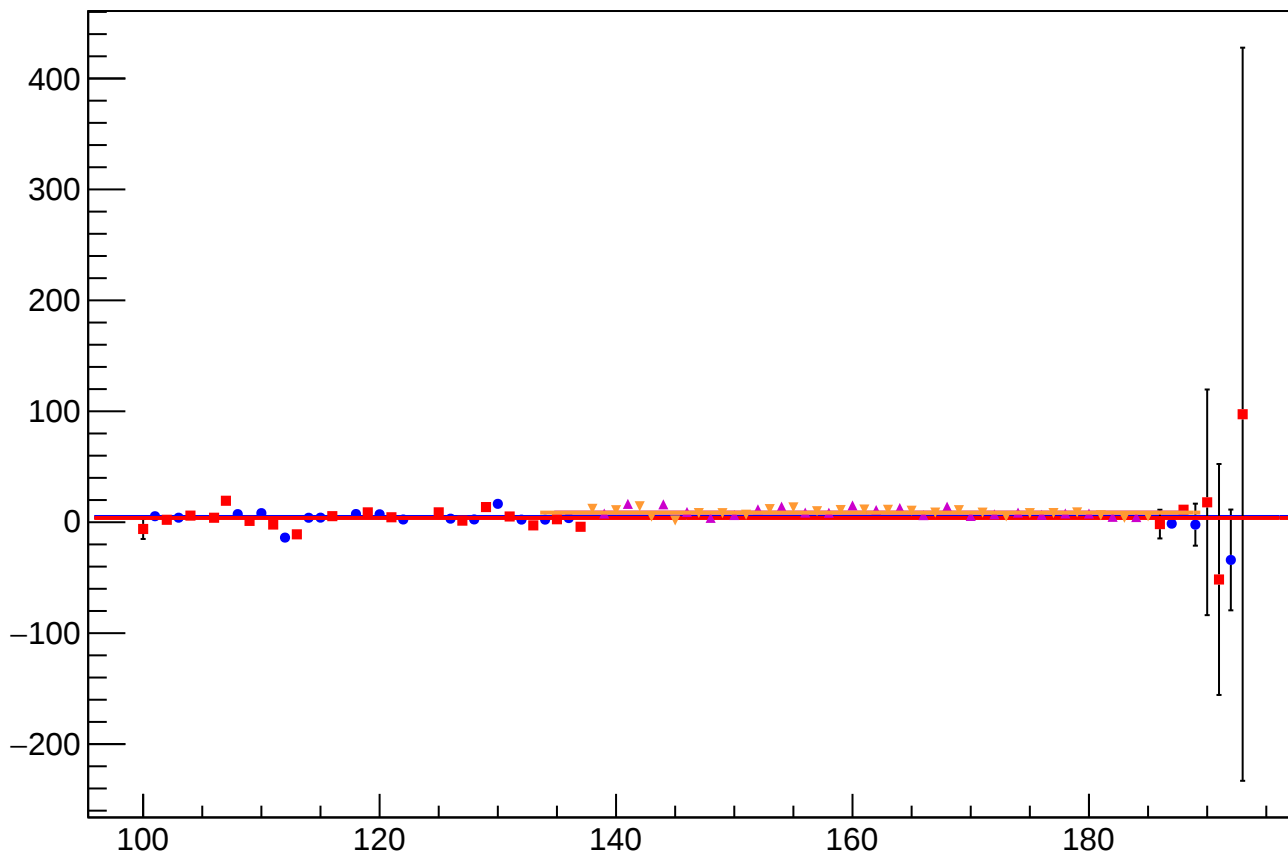
Right: 27.461 $\pm$ 0.280 χ^2 /NDF: 4434.1/41

In: 10.296 $\pm$ 0.172 χ^2 /NDF:5046.6/41

Out: 10.962 $\pm$ 0.171 χ^2 /NDF:6176.0/47

All: 10.631 $\pm$ 0.121 χ^2 /NDF: 11230.1/89

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.728 $\pm$ 0.254 χ^2 /NDF: 549.3/18

Left Out: 8.674 $\pm$ 0.168 χ^2 /NDF:243.7/24

Right Out: 3.850 $\pm$ 0.258 χ^2 /NDF: 572.4/22

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.671 $\pm$ 0.120 χ^2 /NDF: 680.4/47

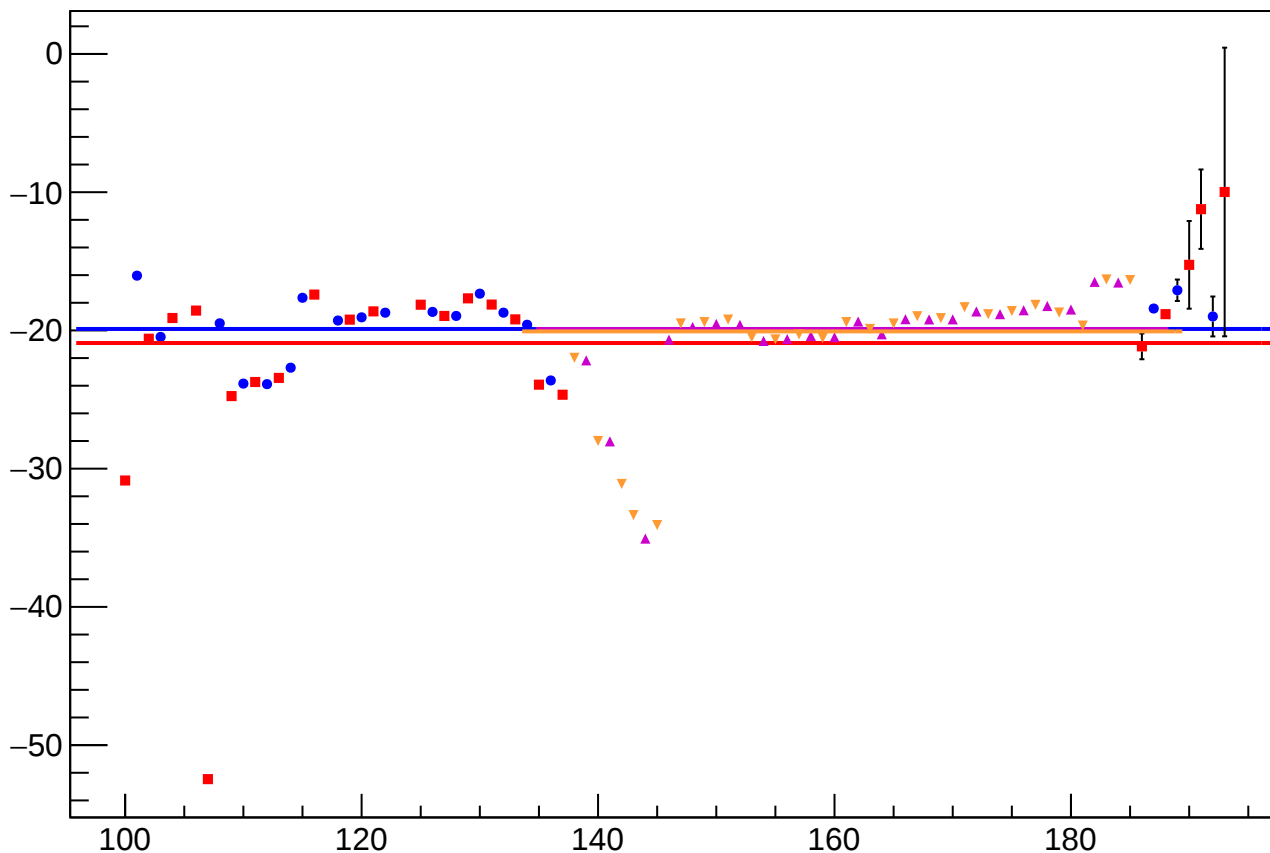
Right: 4.295 $\pm$ 0.181 χ^2 /NDF: 1127.6/41

In: 7.448 $\pm$ 0.141 χ^2 /NDF:1152.1/41

Out: 7.230 $\pm$ 0.141 χ^2 /NDF:1061.3/47

All: 7.339 $\pm$ 0.100 χ^2 /NDF: 2214.6/89

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.894 $\pm$ 0.016 χ^2 /NDF: 26068.6/18

Left Out: -20.069 $\pm$ 0.008 χ^2 /NDF:185373.7/24

Right Out: -20.911 $\pm$ 0.016 χ^2 /NDF: 94218.3/22

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

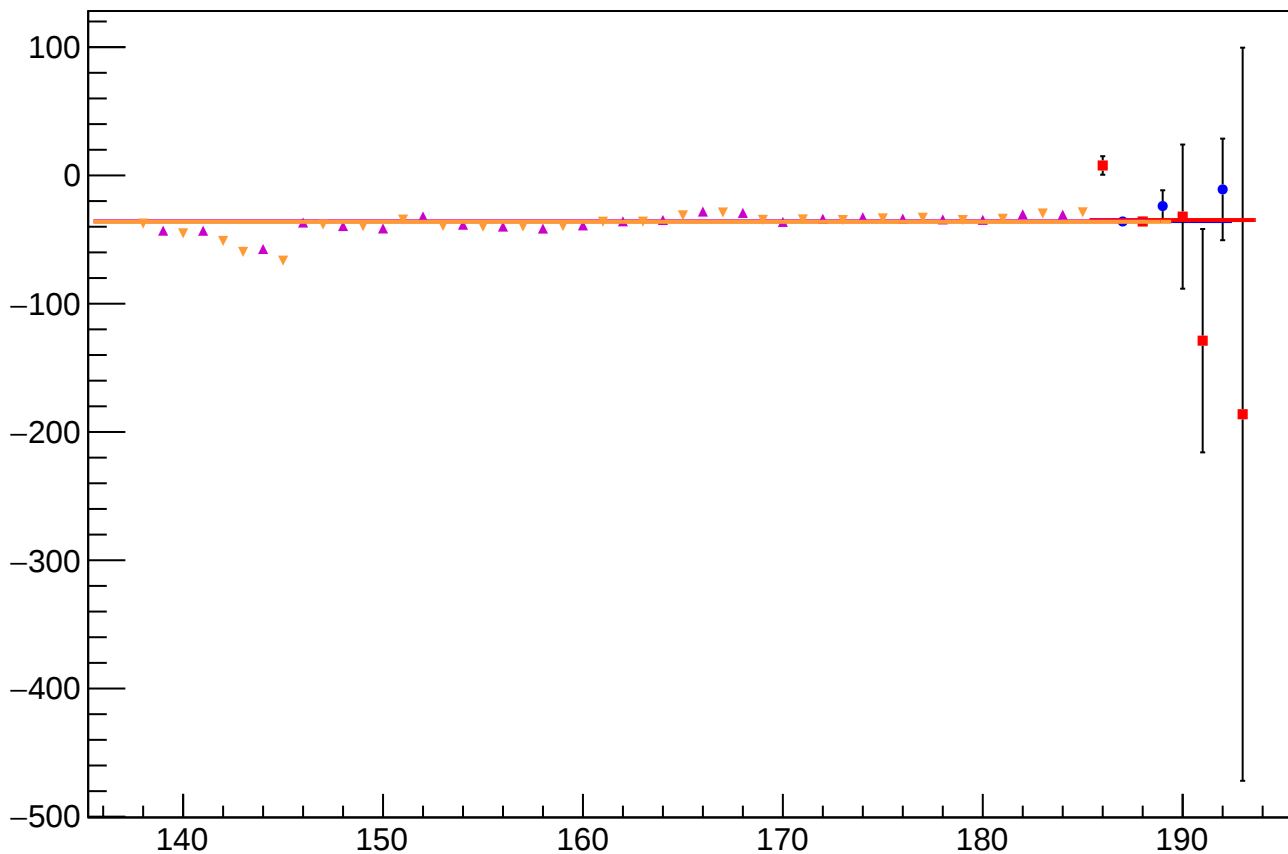
Right: -20.402 $\pm$ 0.011 χ^2 /NDF: 122397.6/41

In: -19.897 $\pm$ 0.007 χ^2 /NDF:170260.6/41

Out: -20.239 $\pm$ 0.007 χ^2 /NDF:281899.8/47

All: -20.068 $\pm$ 0.005 χ^2 /NDF: 453346.0/89

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.575 ± 1.858 $\chi^2/\text{NDF}: 1.3/2$

Left Out: -36.152 ± 0.191 $\chi^2/\text{NDF}: 1199.2/24$

Right Out: -34.781 ± 1.167 $\chi^2/\text{NDF}: 37.1/4$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.959 ± 0.135 $\chi^2/\text{NDF}: 2043.8/47$

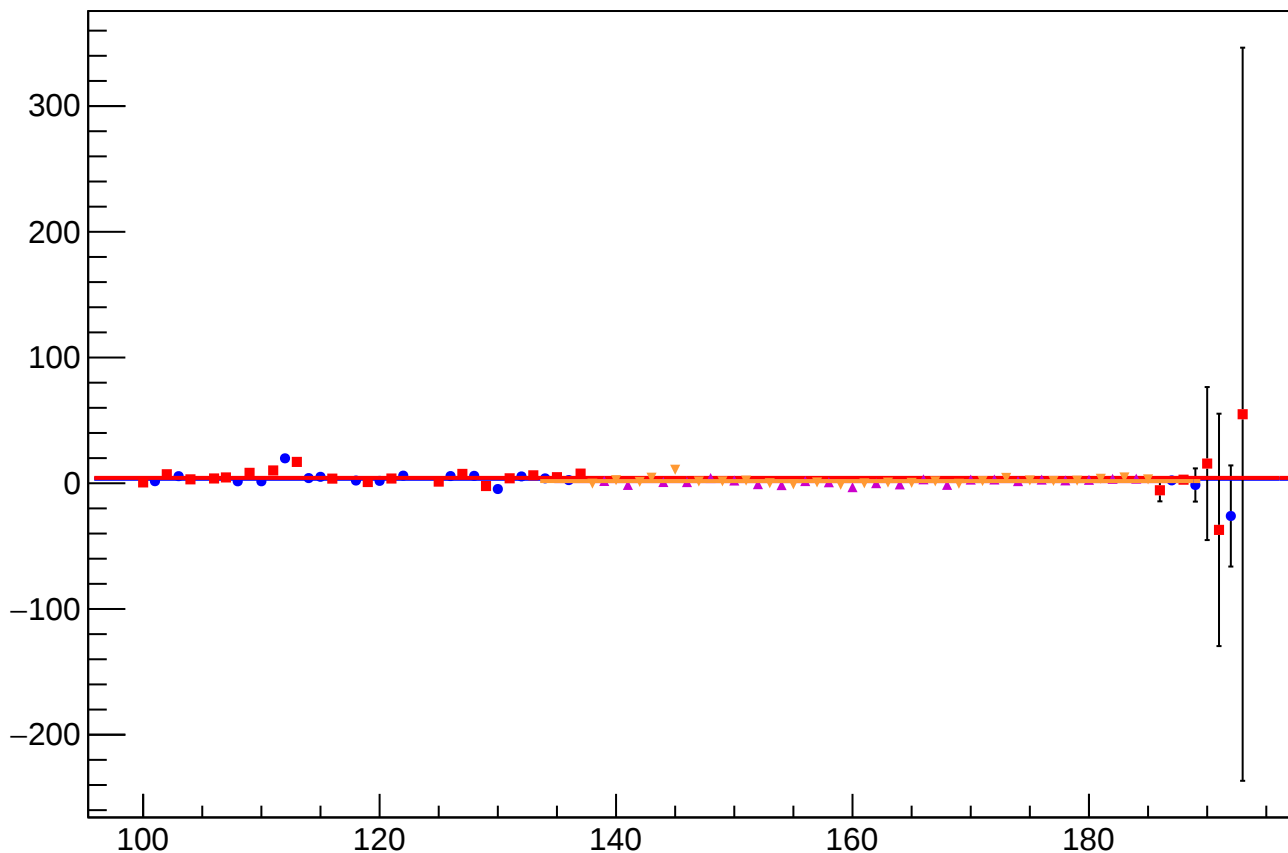
Right: -35.006 ± 0.988 $\chi^2/\text{NDF}: 38.6/7$

In: -35.764 ± 0.190 $\chi^2/\text{NDF}: 843.9/25$

Out: -36.116 ± 0.189 $\chi^2/\text{NDF}: 1237.7/29$

All: -35.942 ± 0.134 $\chi^2/\text{NDF}: 2083.3/55$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.550 $\pm$ 0.220 χ^2 /NDF: 438.0/18

Left Out: 1.741 $\pm$ 0.147 χ^2 /NDF:170.2/24

Right Out: 4.281 $\pm$ 0.220 χ^2 /NDF: 354.2/22

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

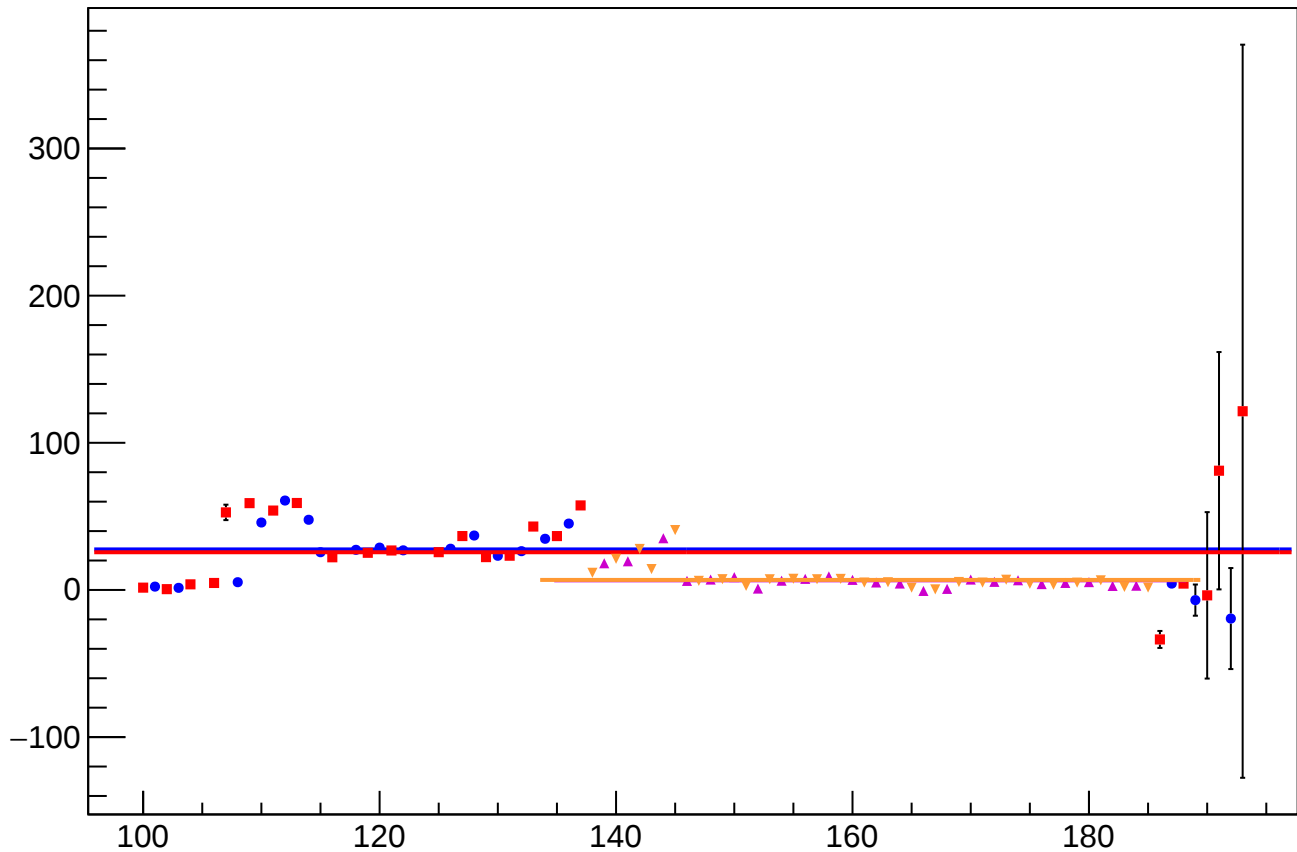
Right: 3.916 $\pm$ 0.155 χ^2 /NDF: 797.7/41

In: 2.288 $\pm$ 0.124 χ^2 /NDF:649.1/41

Out: 2.527 $\pm$ 0.122 χ^2 /NDF:616.7/47

All: 2.409 $\pm$ 0.087 χ^2 /NDF: 1267.7/89

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.546 $\pm$ 0.405 χ^2 /NDF: 1739.1/18

Left Out: 6.813 $\pm$ 0.191 χ^2 /NDF:1304.5/24

Right Out: 25.623 $\pm$ 0.371 χ^2 /NDF: 2833.3/22

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

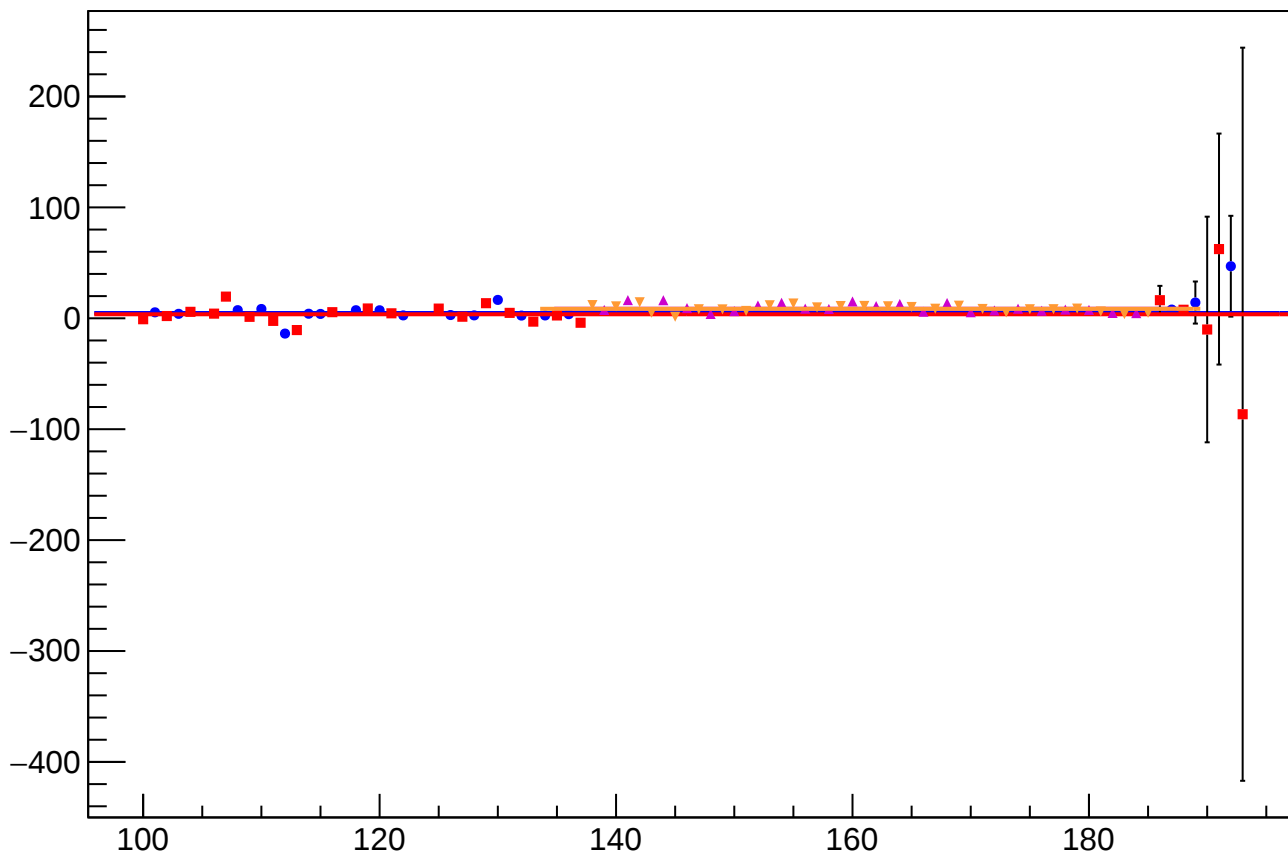
Right: 26.499 $\pm$ 0.273 χ^2 /NDF: 4584.6/41

In: 10.331 $\pm$ 0.172 χ^2 /NDF:4962.4/41

Out: 10.754 $\pm$ 0.170 χ^2 /NDF:6173.2/47

All: 10.546 $\pm$ 0.121 χ^2 /NDF: 11138.6/89

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.763 $\pm$ 0.254 χ^2 /NDF: 544.7/18

Left Out: 8.565 $\pm$ 0.168 χ^2 /NDF:248.1/24

Right Out: 3.612 $\pm$ 0.253 χ^2 /NDF: 573.9/22

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

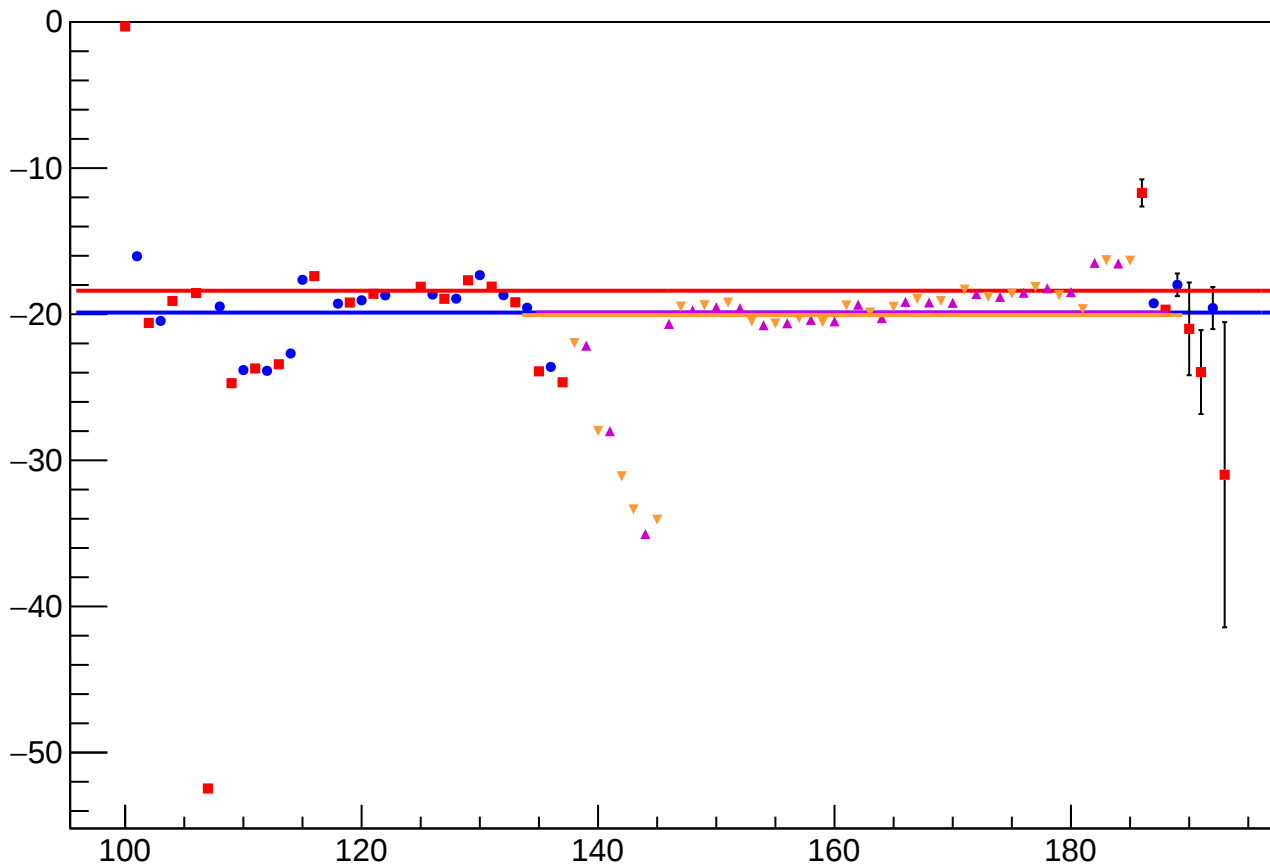
Right: 4.186 $\pm$ 0.179 χ^2 /NDF: 1128.8/41

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1142.9/41

Out: 7.048 $\pm$ 0.140 χ^2 /NDF:1086.8/47

All: 7.223 $\pm$ 0.100 χ^2 /NDF: 2232.9/89

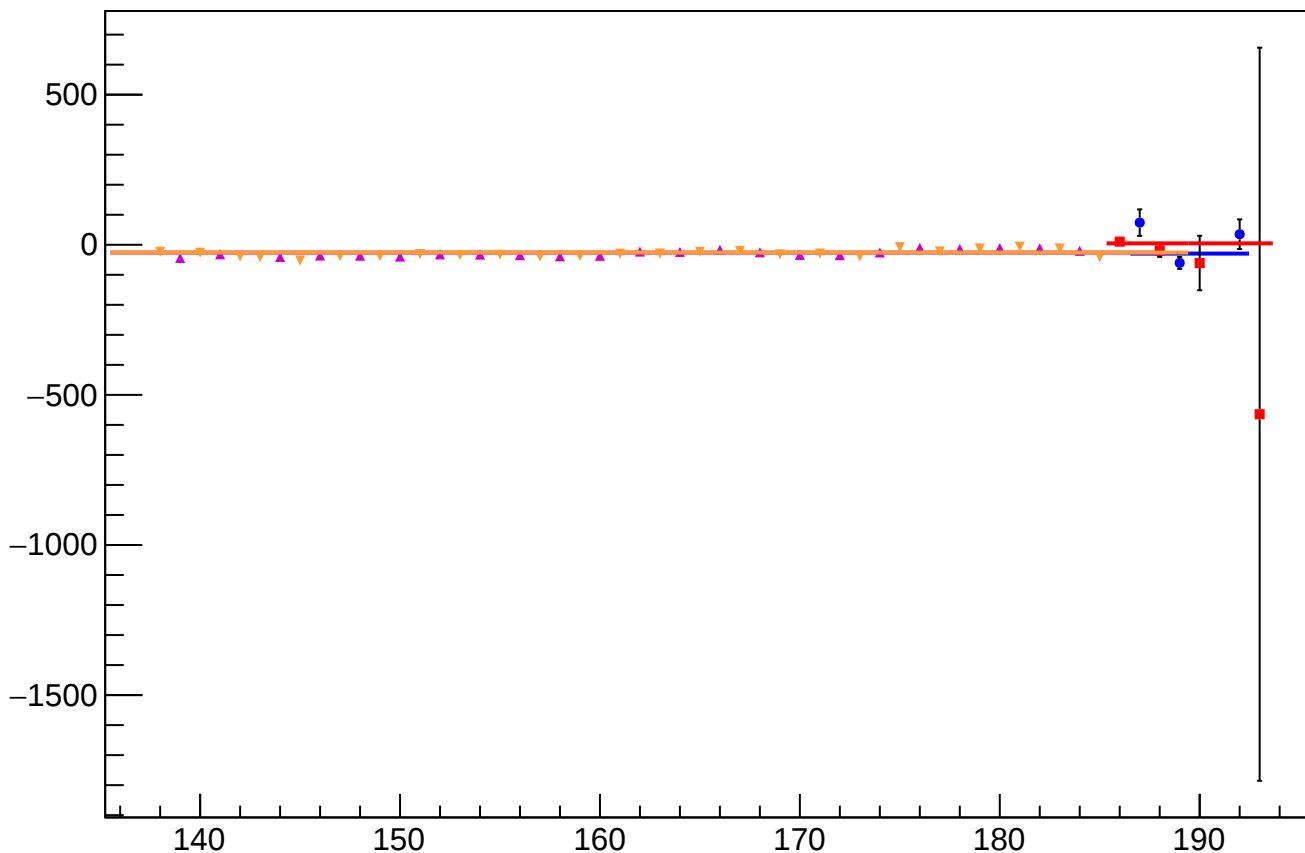
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.886 ± 0.016 $\chi^2/\text{NDF}: 26021.5/18$
 Left Out: -20.061 ± 0.008 $\chi^2/\text{NDF}: 185580.2/24$
 Right Out: -18.390 ± 0.015 $\chi^2/\text{NDF}: 301149.0/22$
 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: -19.092 ± 0.011 $\chi^2/\text{NDF}: 332036.9/41$
 In: -19.890 ± 0.007 $\chi^2/\text{NDF}: 170076.7/41$
 Out: -19.689 ± 0.007 $\chi^2/\text{NDF}: 496786.1/47$
 All: -19.788 ± 0.005 $\chi^2/\text{NDF}: 667278.0/89$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.329 ± 16.964 χ^2/NDF : 9.6/2

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 4.707 ± 8.566 χ^2/NDF : 2.4/3

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

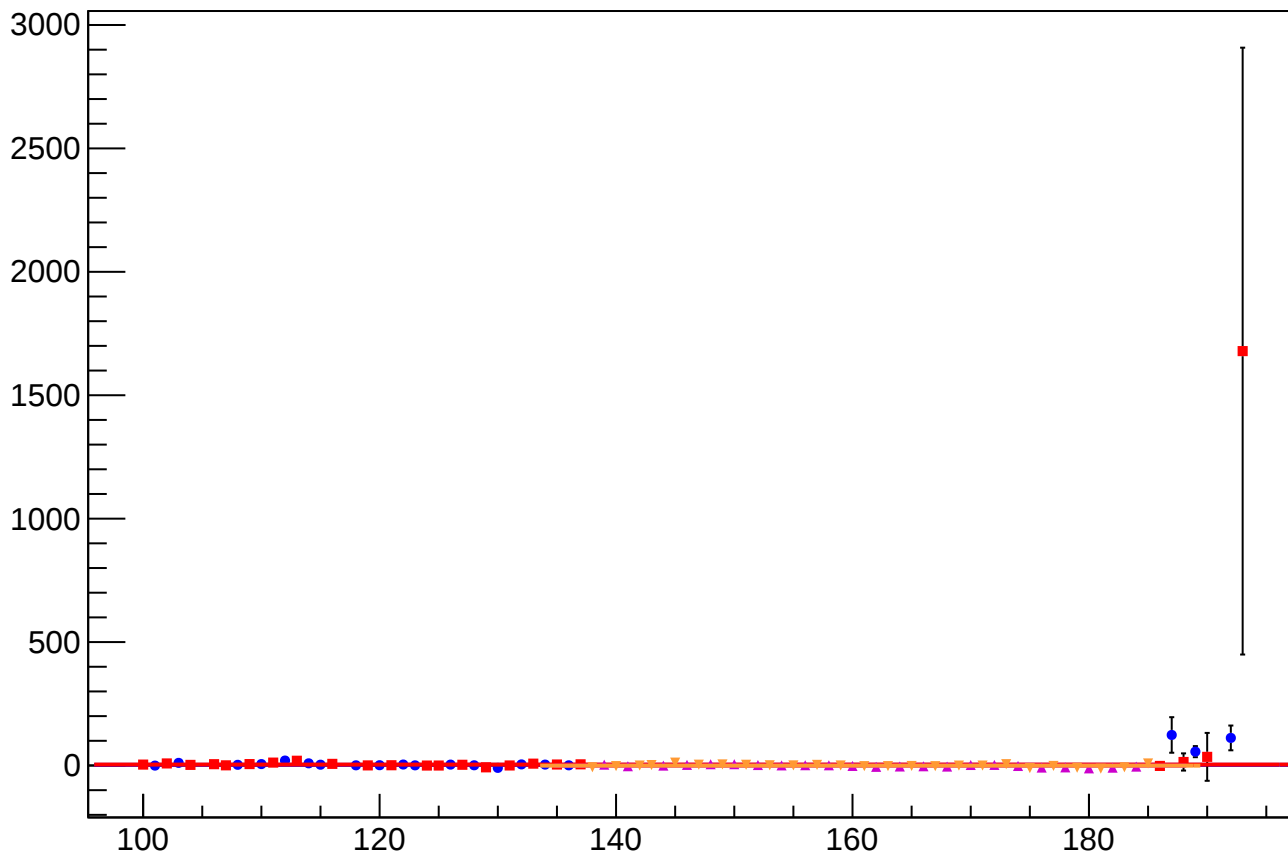
Right: -2.209 ± 7.647 χ^2/NDF : 15.3/6

In: -26.053 ± 0.195 χ^2/NDF : 3289.2/25

Out: -25.869 ± 0.192 χ^2/NDF : 4173.2/28

All: -25.959 ± 0.137 χ^2/NDF : 7462.8/54

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.471 ± 0.315 χ^2/NDF : 307.6/19

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.711 ± 0.327 χ^2/NDF : 271.4/22

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

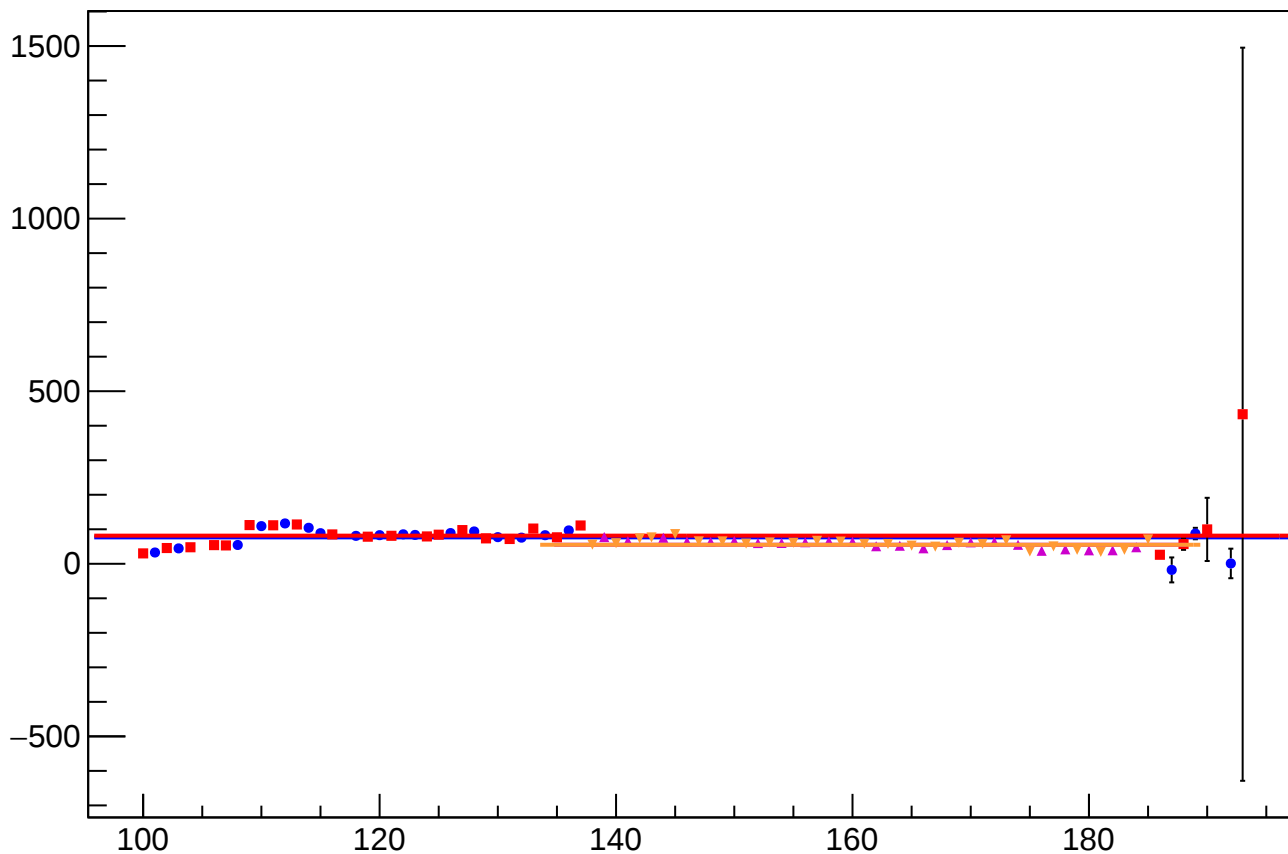
Right: 3.068 ± 0.227 χ^2/NDF : 586.4/42

In: -0.243 ± 0.136 χ^2/NDF : 1465.5/42

Out: 0.074 ± 0.133 χ^2/NDF : 1741.0/47

All: -0.082 ± 0.095 χ^2/NDF : 3209.2/90

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.530 $\pm$ 0.576 χ^2 /NDF: 2263.1/19

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.518 $\pm$ 0.591 χ^2 /NDF: 1626.7/22

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

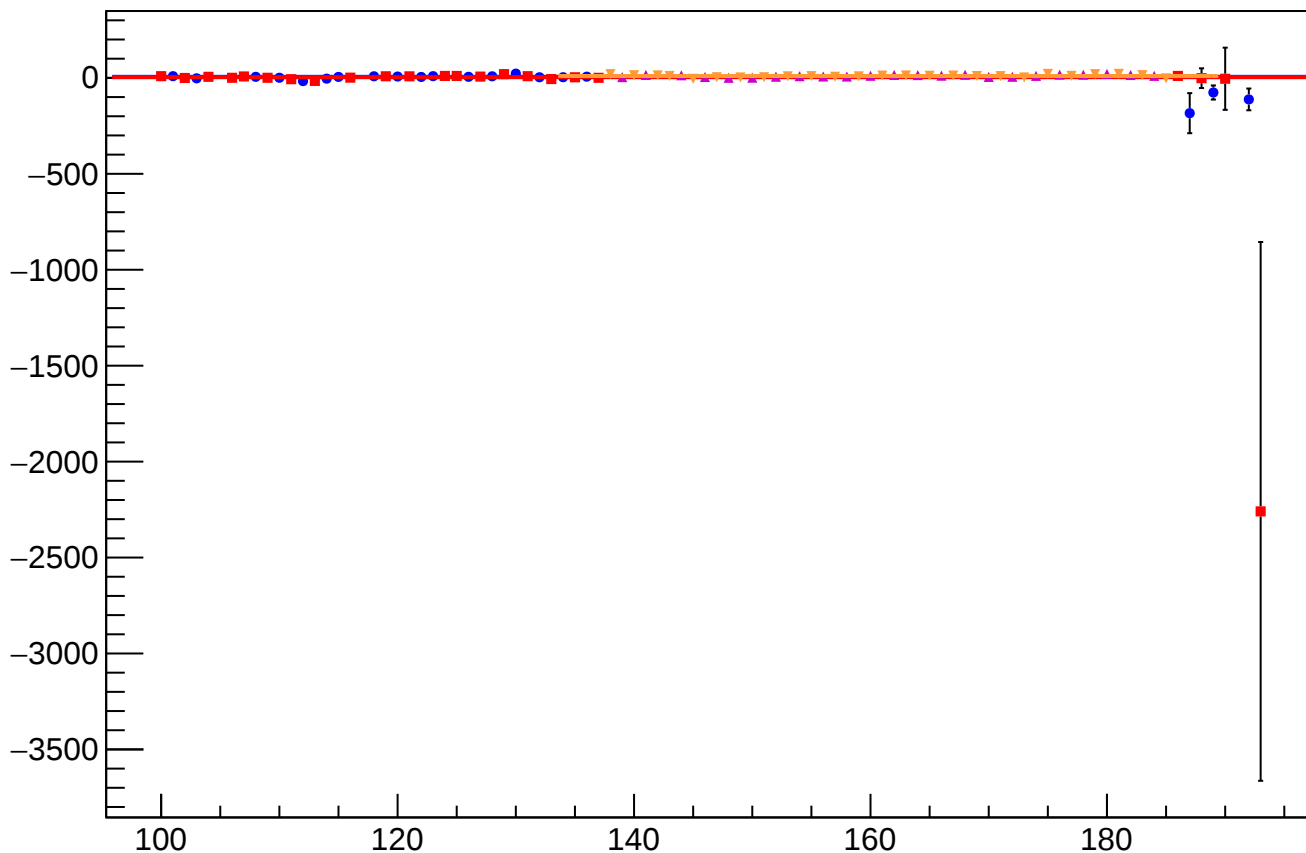
Right: 78.963 $\pm$ 0.413 χ^2 /NDF: 3926.4/42

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7211.6/42

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8016.4/47

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15230.0/90

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.413 $\pm$ 0.361 χ^2 /NDF: 398.2/19

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.585 $\pm$ 0.375 χ^2 /NDF: 424.4/22

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

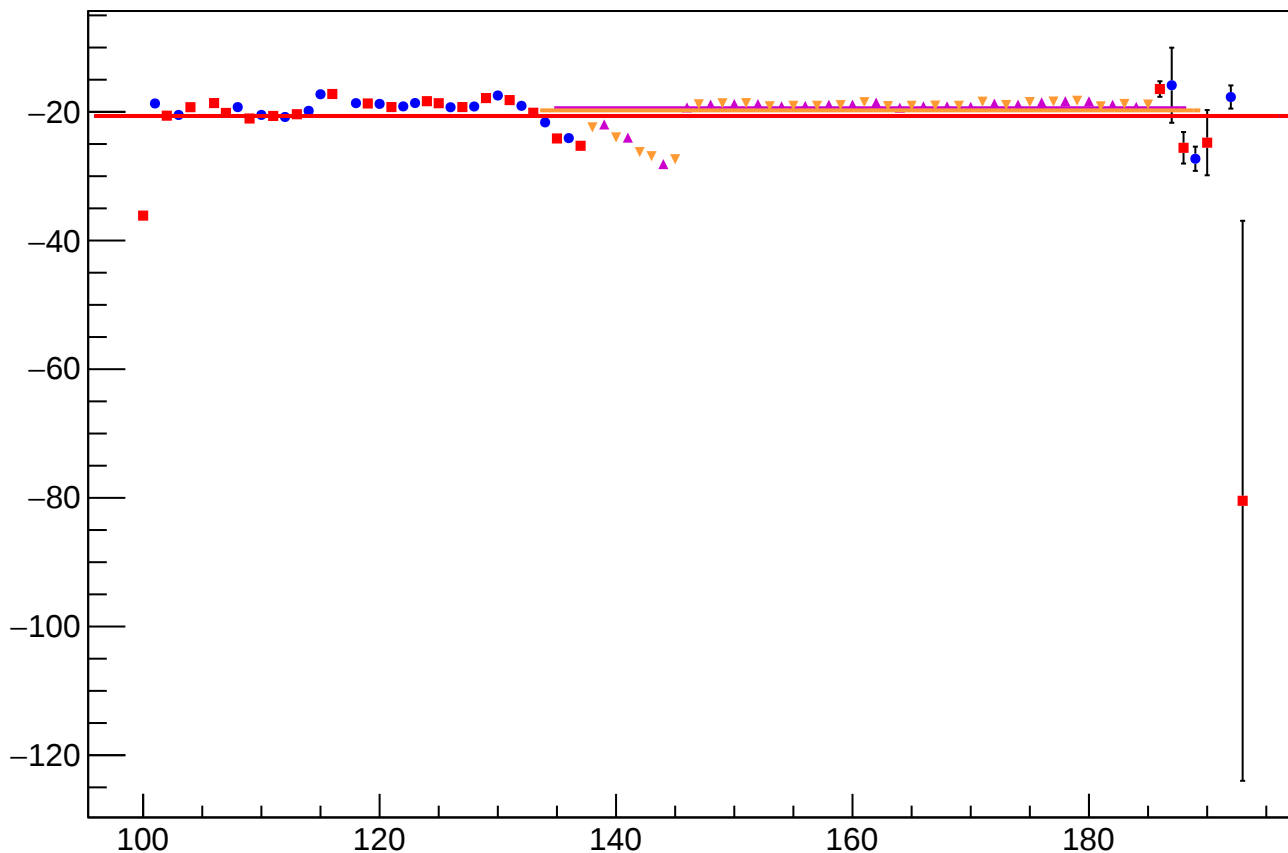
Right: 4.535 $\pm$ 0.260 χ^2 /NDF: 834.9/42

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1677.6/42

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2098.4/47

All: 8.852 $\pm$ 0.109 χ^2 /NDF: 3777.7/90

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12440.0/19

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13804.6/22

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

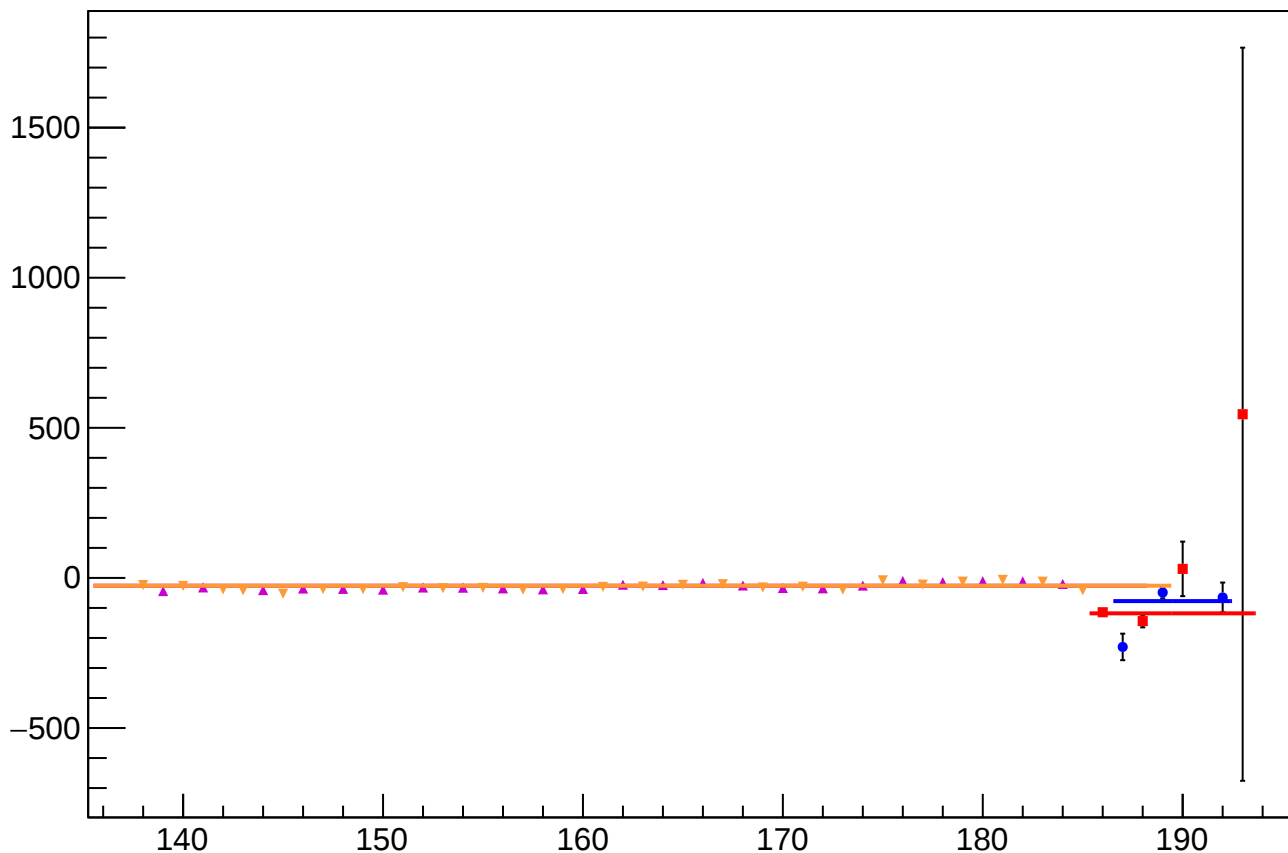
Right: -20.642 $\pm$ 0.014 χ^2 /NDF: 26244.6/42

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68949.8/42

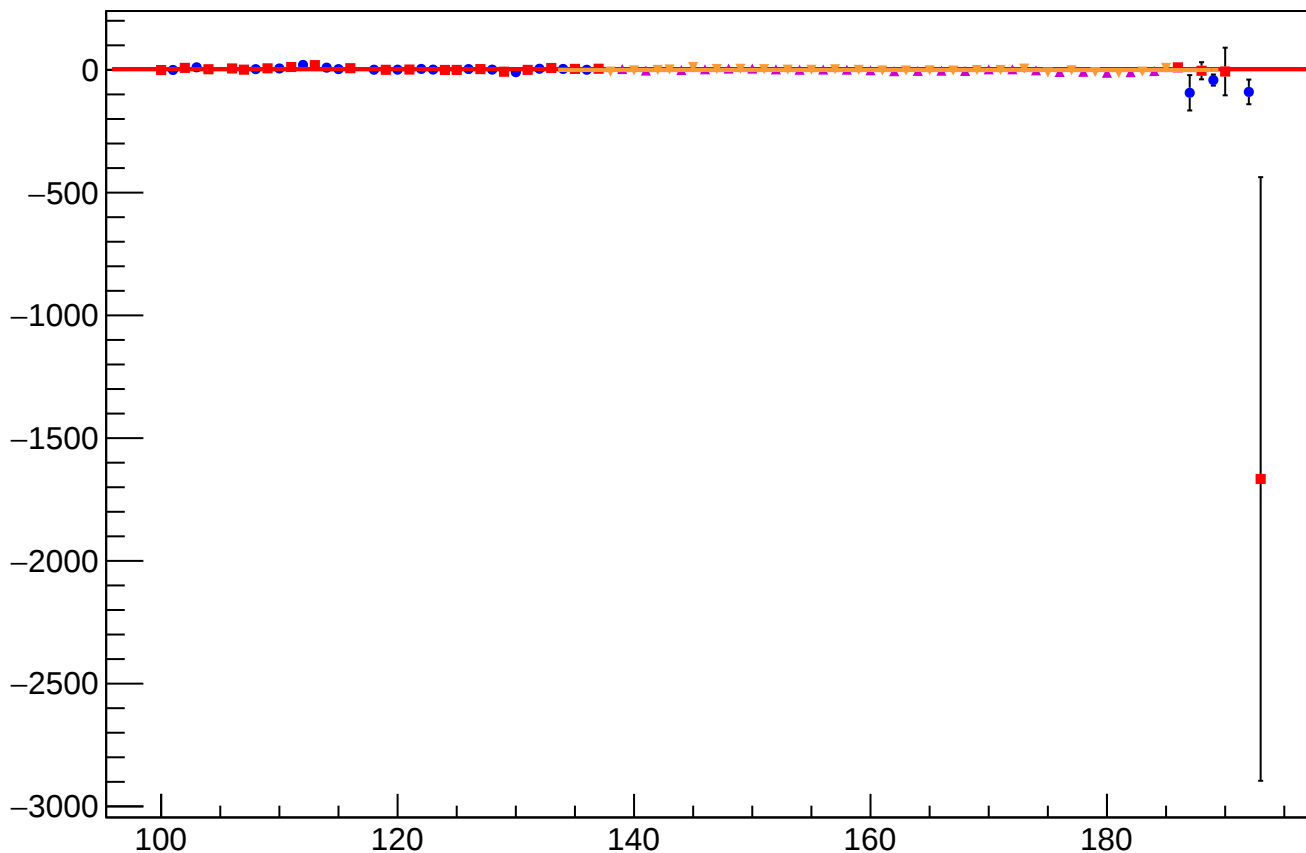
Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107146.1/47

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176824.5/90

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.441 ± 0.315 χ^2/NDF : 301.3/19

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.596 ± 0.318 χ^2/NDF : 282.3/22

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

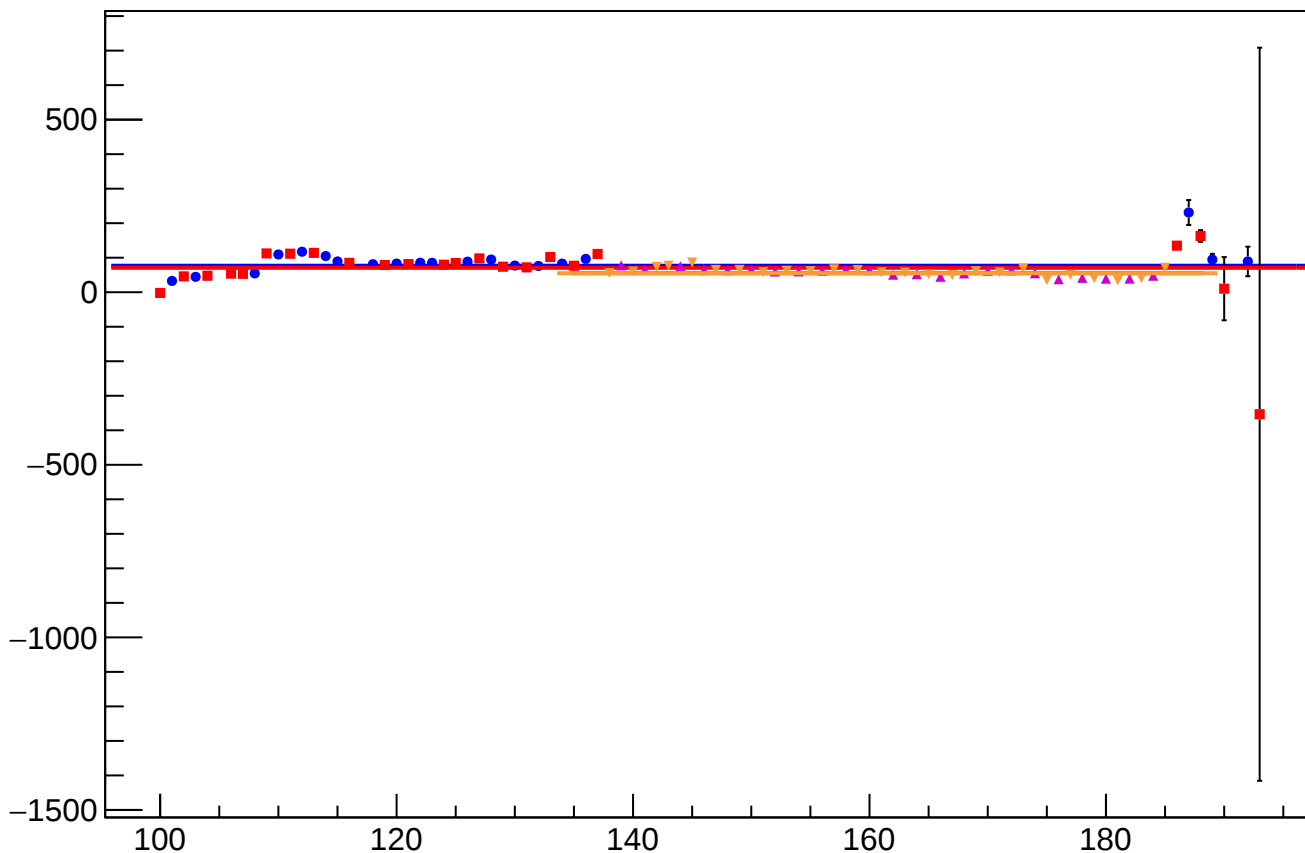
Right: 3.013 ± 0.224 χ^2/NDF : 590.2/42

In: -0.193 ± 0.136 χ^2/NDF : 1493.5/42

Out: 0.136 ± 0.133 χ^2/NDF : 1736.4/47

All: -0.025 ± 0.095 χ^2/NDF : 3232.9/90

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.738 $\pm$ 0.577 χ^2 /NDF: 2284.3/19

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.749 $\pm$ 0.549 χ^2 /NDF: 4489.7/22

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

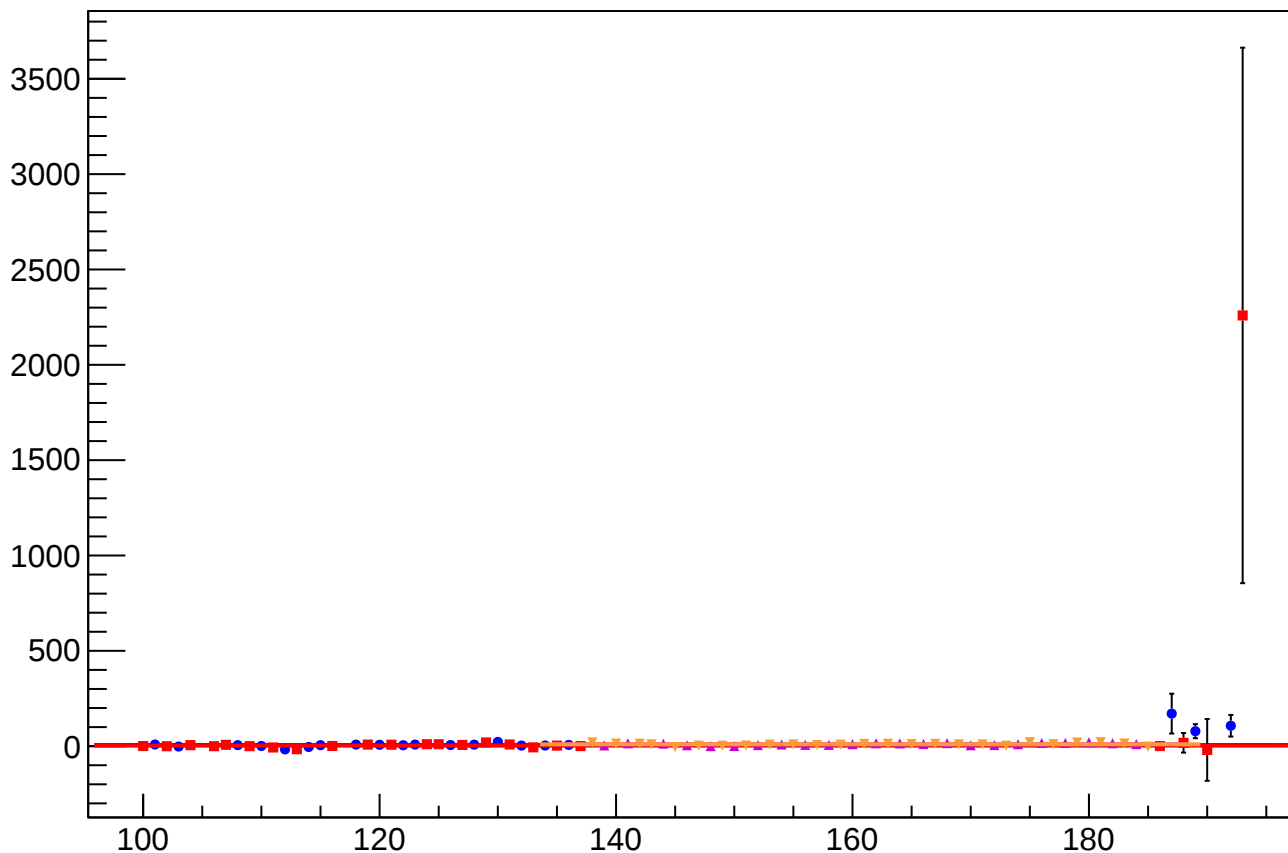
Right: 73.595 $\pm$ 0.398 χ^2 /NDF: 6830.6/42

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7214.5/42

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9773.7/47

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 16991.7/90

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441 ± 0.361 χ^2/NDF : 393.9/19

Left Out: 9.675 ± 0.168 χ^2/NDF : 1441.3/24

Right Out: 3.279 ± 0.366 χ^2/NDF : 427.7/22

Left In: 9.738 ± 0.172 χ^2/NDF : 1191.1/22

Left: 9.706 ± 0.120 χ^2/NDF : 2632.6/47

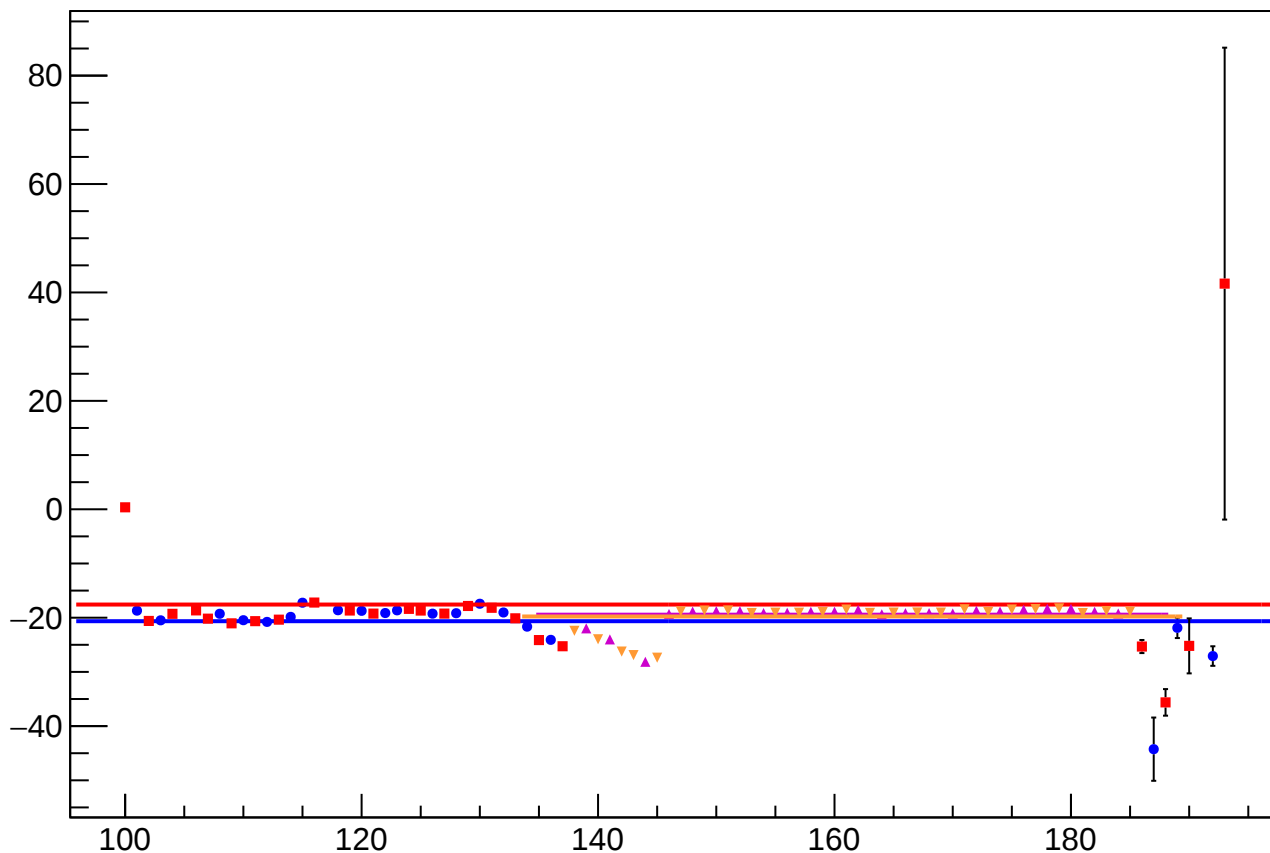
Right: 4.374 ± 0.257 χ^2/NDF : 839.3/42

In: 8.945 ± 0.155 χ^2/NDF : 1700.5/42

Out: 8.562 ± 0.153 χ^2/NDF : 2122.0/47

All: 8.750 ± 0.109 χ^2/NDF : 3825.5/90

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 $\pm$ 0.019 χ^2 /NDF: 12492.2/19

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.574 $\pm$ 0.018 χ^2 /NDF: 178417.5/22

Left In: -19.445 $\pm$ 0.008 χ^2 /NDF: 53124.1/22

Left: -19.611 $\pm$ 0.006 χ^2 /NDF: 145502.5/47

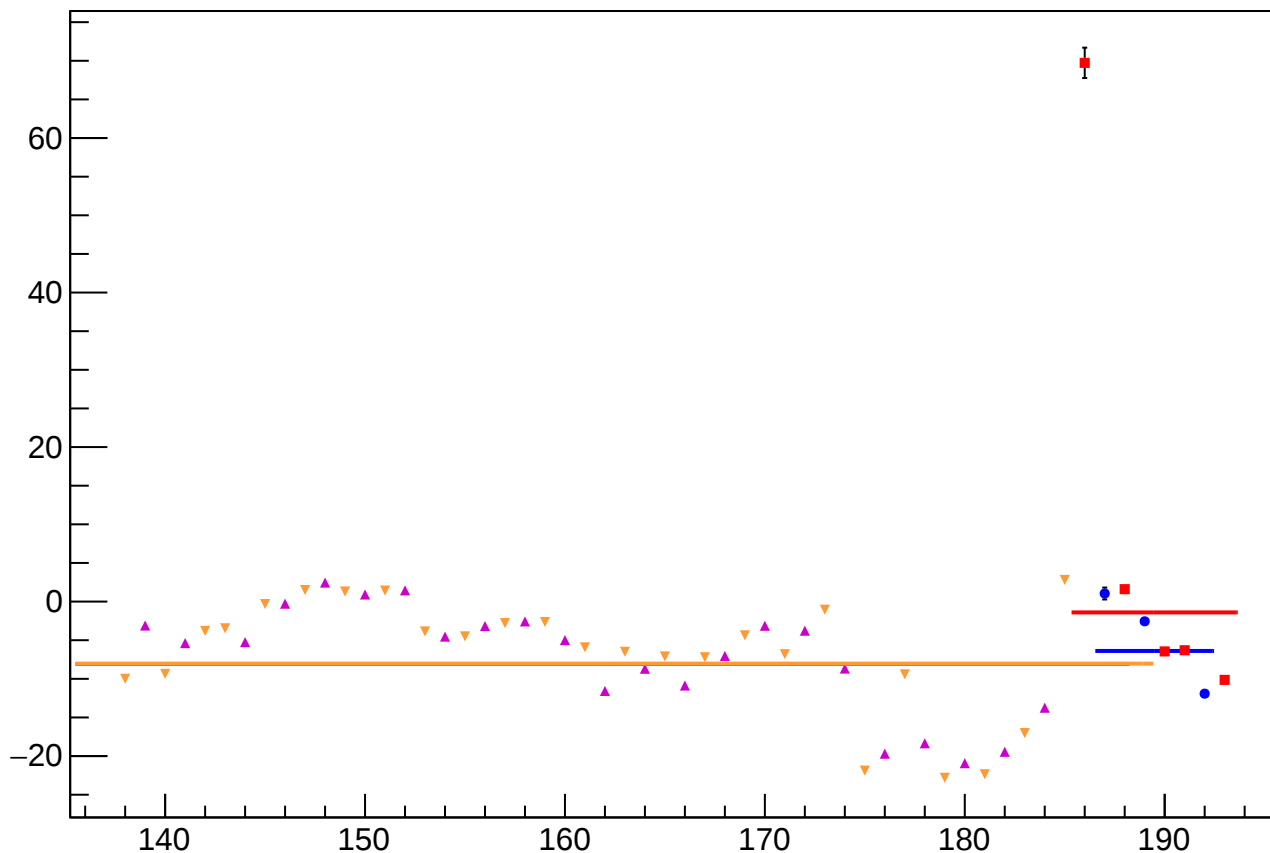
Right: -19.002 $\pm$ 0.013 χ^2 /NDF: 204385.3/42

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68911.2/42

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282417.6/47

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351692.1/90

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

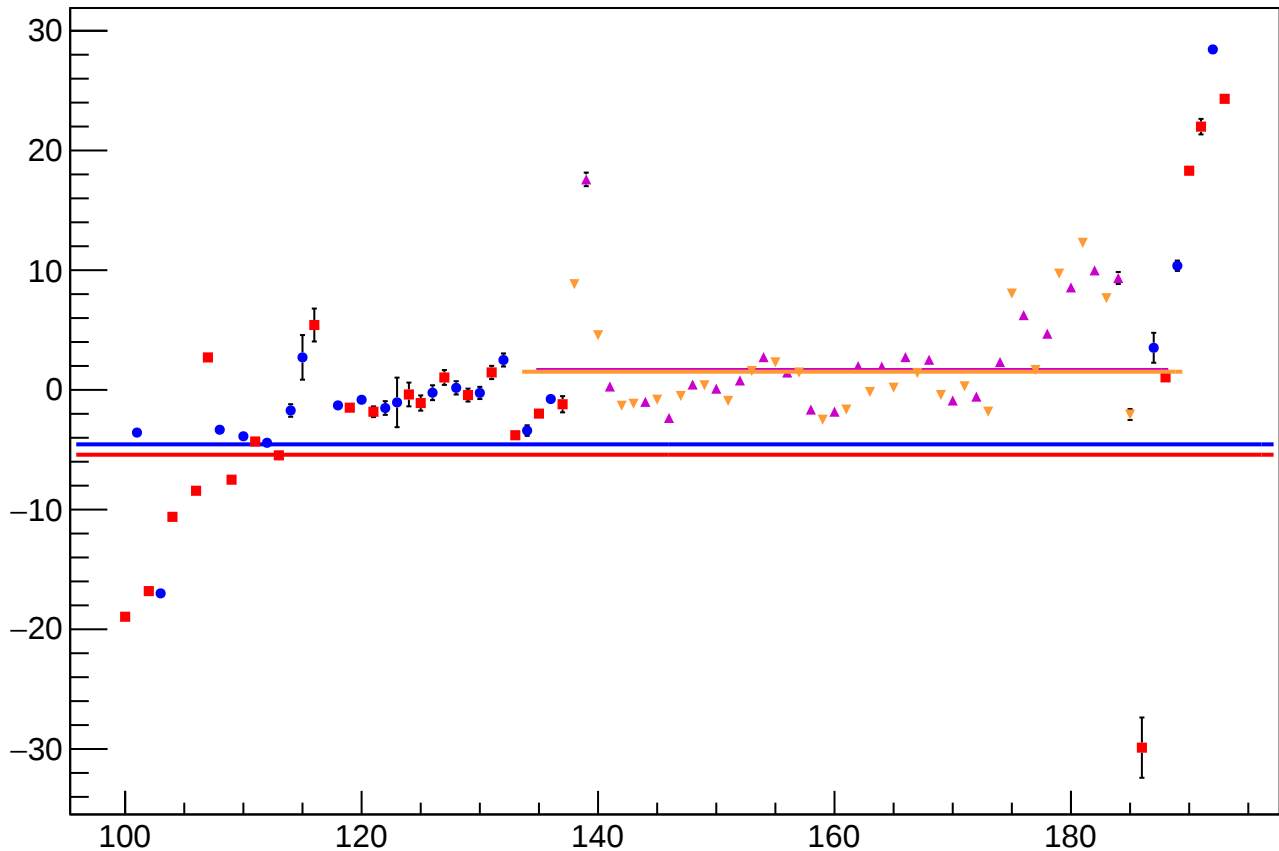


Right In: -6.391 ± 0.261 $\chi^2/\text{NDF}: 390.5/2$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -1.402 ± 0.148 $\chi^2/\text{NDF}: 2303.9/4$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -2.613 ± 0.128 $\chi^2/\text{NDF}: 2971.7/7$
 In: -7.958 ± 0.069 $\chi^2/\text{NDF}: 10971.0/25$
 Out: -6.808 ± 0.063 $\chi^2/\text{NDF}: 16517.1/29$

All: -7.333 ± 0.047 $\chi^2/\text{NDF}: 27637.9/55$

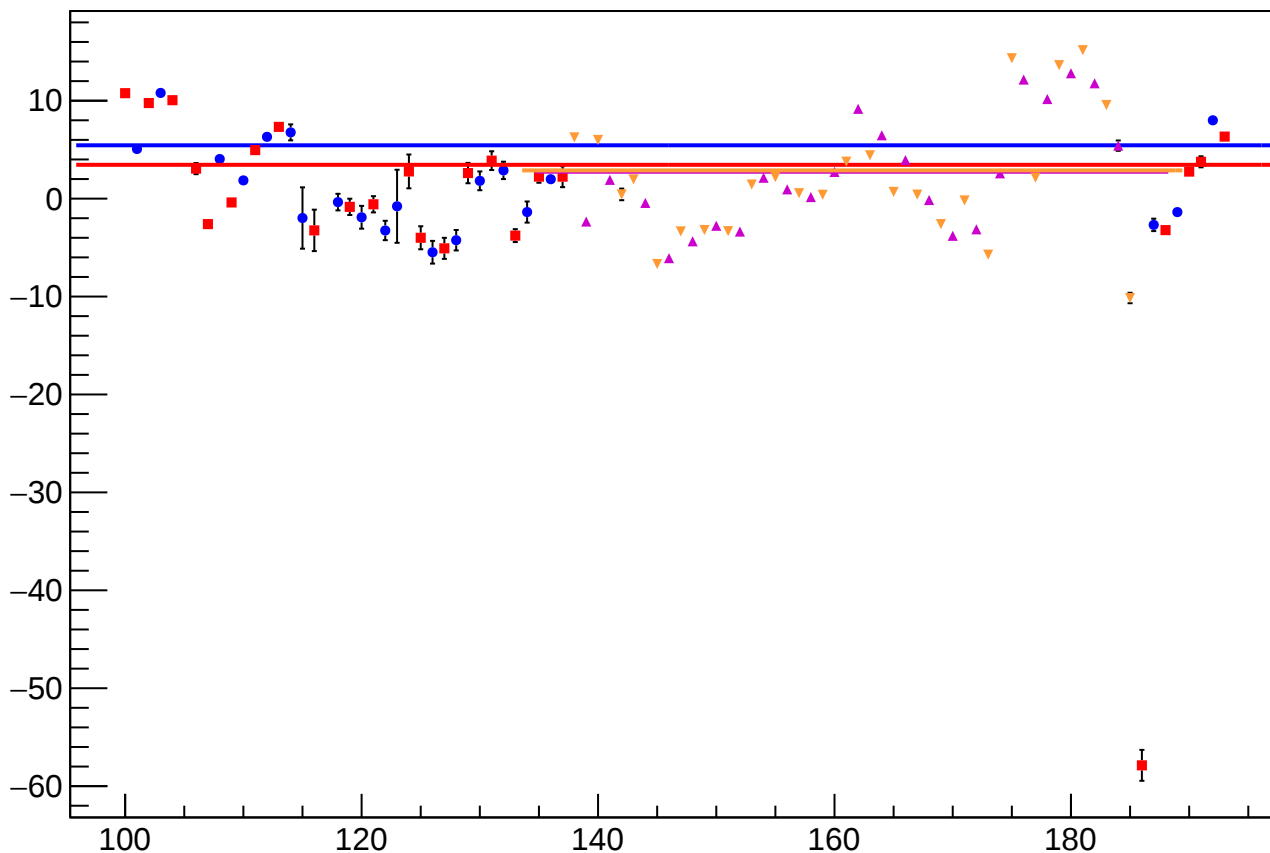
reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.549 $\pm$ 0.054 χ^2 /NDF: 17615.9/19
 Left Out: 1.518 $\pm$ 0.054 χ^2 /NDF:4847.5/24
 Right Out: -5.417 $\pm$ 0.056 χ^2 /NDF: 24436.7/23
 Left In: 1.662 $\pm$ 0.057 χ^2 /NDF:4034.2/22

Left: 1.587 $\pm$ 0.039 χ^2 /NDF: 8885.0/47
 Right: -4.963 $\pm$ 0.039 χ^2 /NDF: 42176.2/43
 In: -1.594 $\pm$ 0.039 χ^2 /NDF:27970.0/42
 Out: -1.822 $\pm$ 0.039 χ^2 /NDF:37122.7/48
 All: -1.708 $\pm$ 0.028 χ^2 /NDF: 65109.7/91

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.447 ± 0.084 χ^2/NDF : 2028.3/19

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 3.454 ± 0.075 χ^2/NDF : 6987.4/23

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

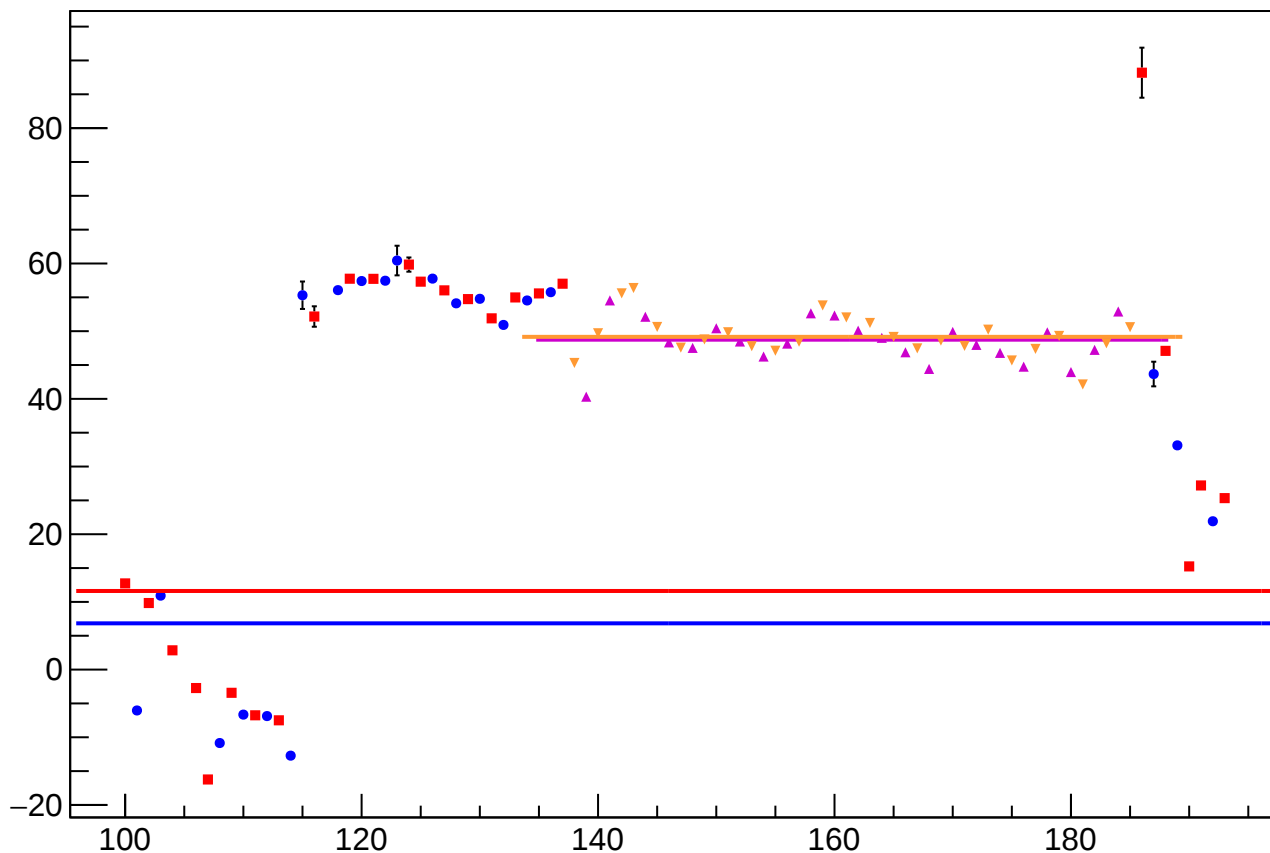
Right: 4.342 ± 0.056 χ^2/NDF : 9330.9/43

In: 3.886 ± 0.054 χ^2/NDF : 9814.9/42

Out: 3.151 ± 0.051 χ^2/NDF : 15911.4/48

All: 3.497 ± 0.037 χ^2/NDF : 25823.2/91

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.834 ± 0.064 $\chi^2/\text{NDF}: 123829.1/19$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 11.615 ± 0.067 $\chi^2/\text{NDF}: 131718.2/23$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

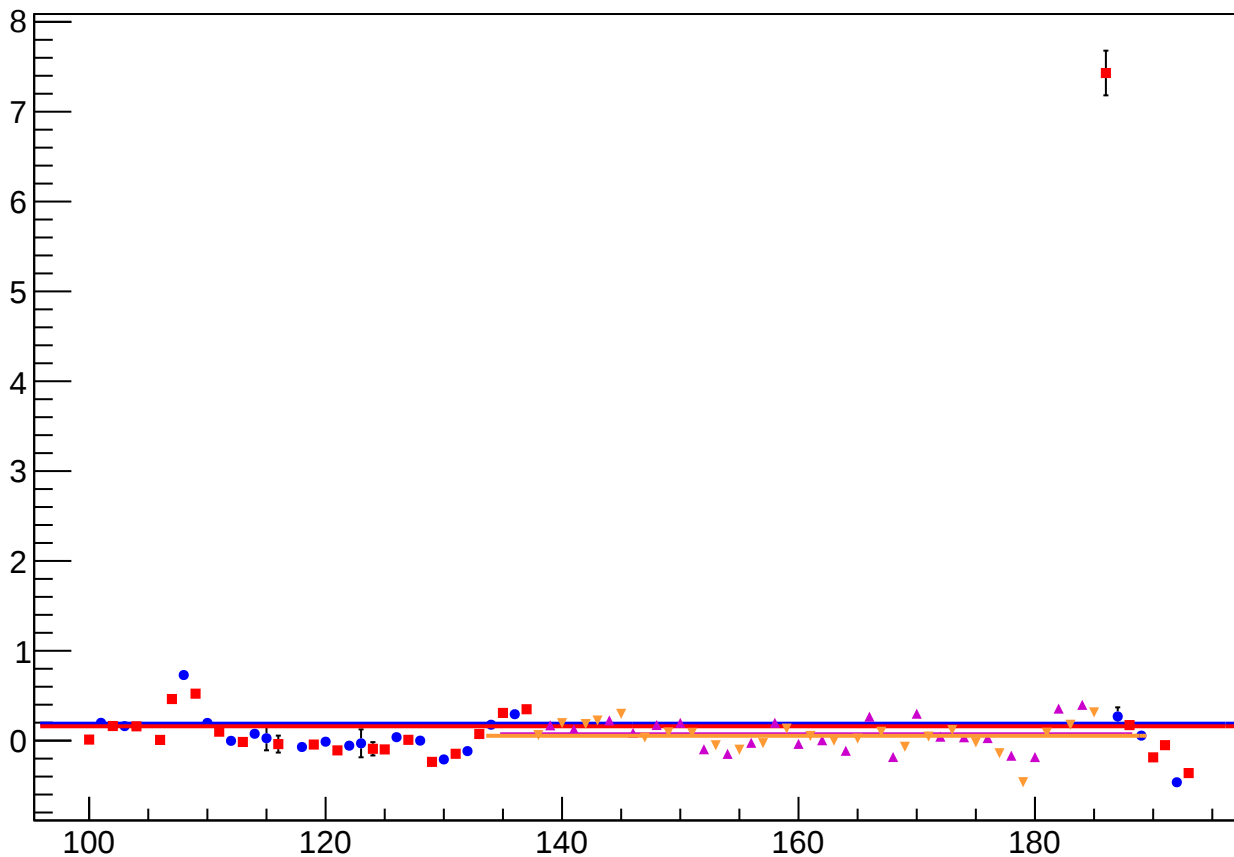
Right: 9.097 ± 0.046 $\chi^2/\text{NDF}: 258200.0/43$

In: 27.817 ± 0.045 $\chi^2/\text{NDF}: 341620.8/42$

Out: 32.022 ± 0.046 $\chi^2/\text{NDF}: 302820.9/48$

All: 29.901 ± 0.032 $\chi^2/\text{NDF}: 648747.5/91$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.188+/-0.003 χ^2/NDF : 6164.5/19

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.160+/-0.003 χ^2/NDF : 5352.7/23

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

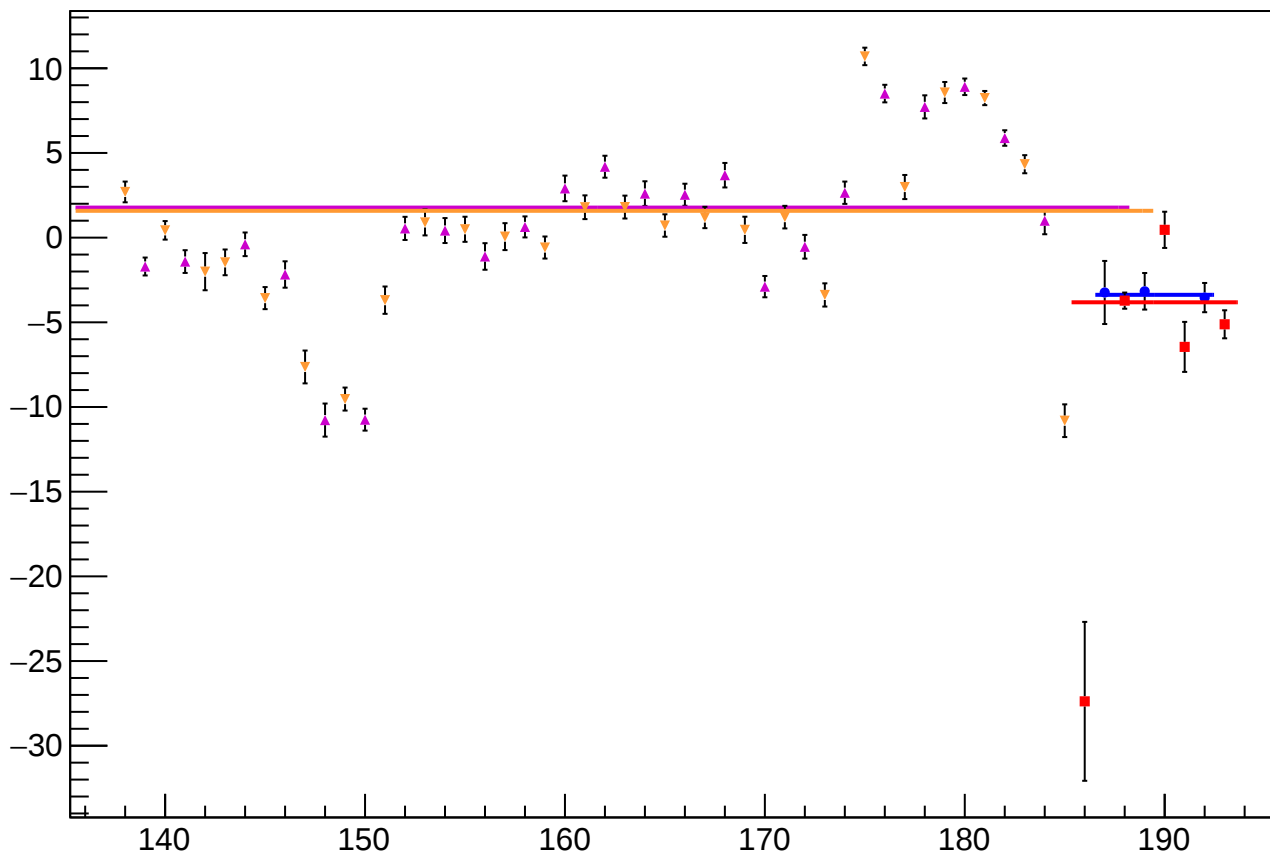
Right: 0.173+/-0.002 χ^2/NDF : 11576.6/43

In: 0.133+/-0.002 χ^2/NDF : 10299.9/42

Out: 0.112+/-0.002 χ^2/NDF : 8498.6/48

All: 0.122+/-0.001 χ^2/NDF : 18858.2/91

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.377 ± 0.634 χ^2/NDF : 0.1/2

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.818 ± 0.372 χ^2/NDF : 46.9/4

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

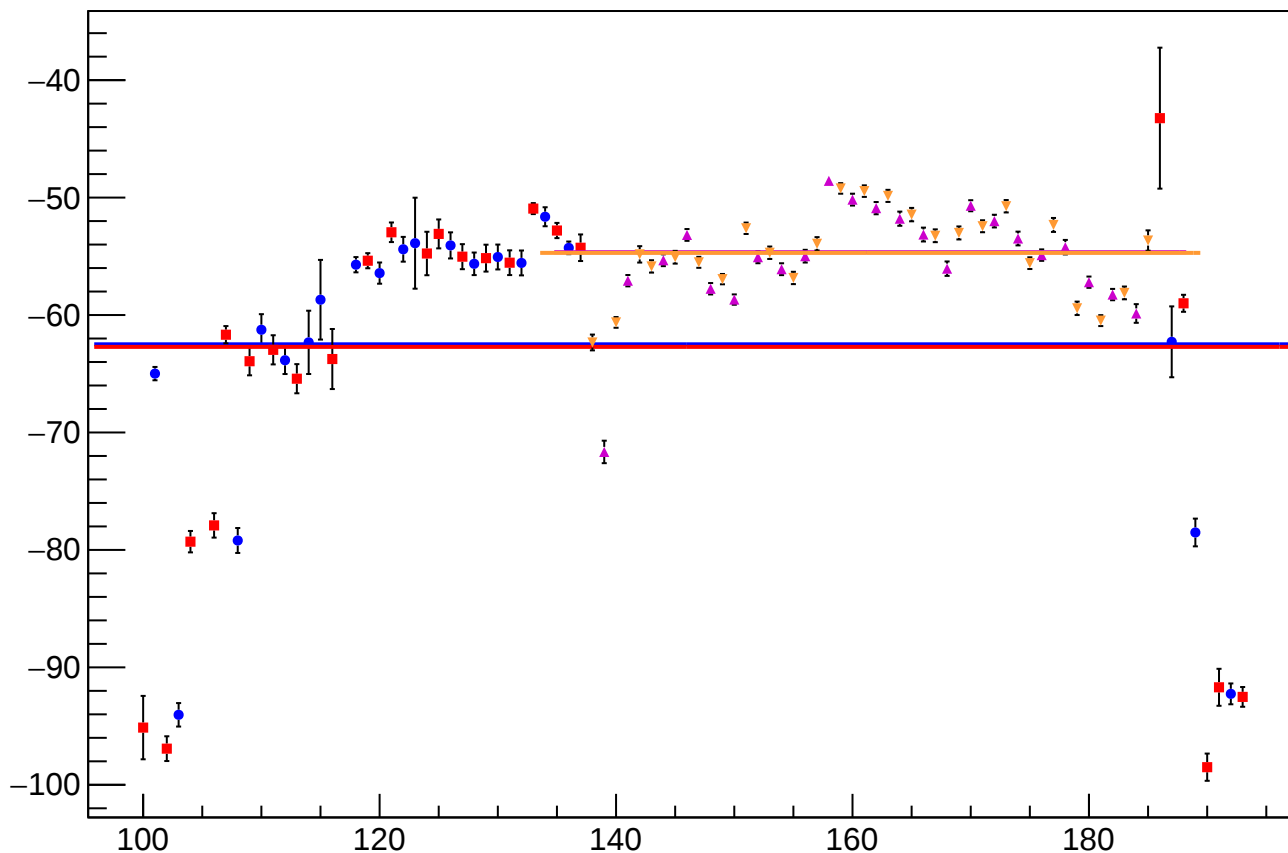
Right: -3.705 ± 0.321 χ^2/NDF : 47.4/7

In: 1.550 ± 0.132 χ^2/NDF : 1360.5/25

Out: 0.974 ± 0.125 χ^2/NDF : 1693.0/29

All: 1.246 ± 0.091 χ^2/NDF : 3063.5/55

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -62.493 ± 0.214 χ^2/NDF : 3406.9/19

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -62.711 ± 0.193 χ^2/NDF : 5744.5/23

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

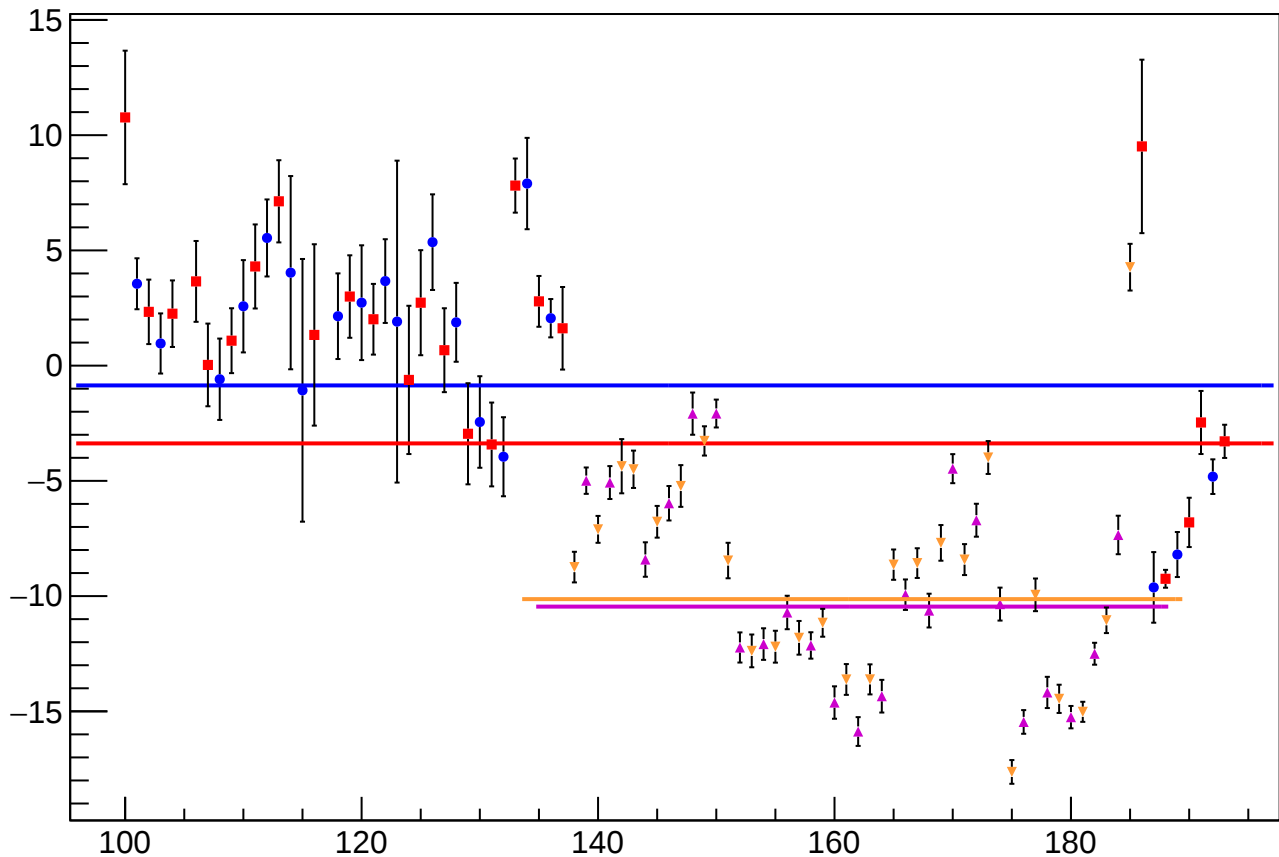
Right: -62.613 ± 0.144 χ^2/NDF : 9152.0/43

In: -56.283 ± 0.098 χ^2/NDF : 5546.7/42

Out: -56.547 ± 0.093 χ^2/NDF : 8188.6/48

All: -56.422 ± 0.067 χ^2/NDF : 13739.2/91

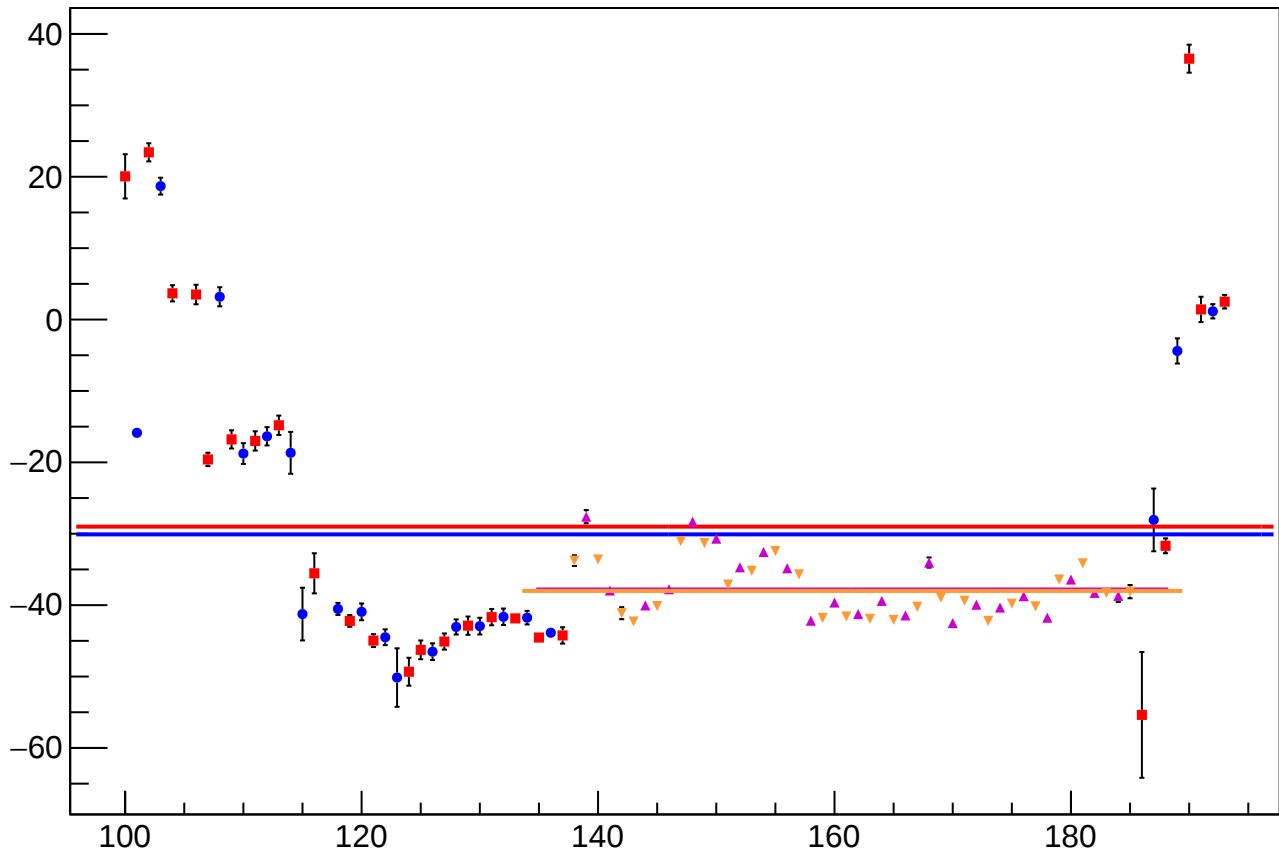
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.859 ± 0.328 $\chi^2/\text{NDF}: 212.1/19$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -3.375 ± 0.245 $\chi^2/\text{NDF}: 559.2/23$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -2.474 ± 0.196 $\chi^2/\text{NDF}: 809.1/43$
 In: -9.070 ± 0.125 $\chi^2/\text{NDF}: 1948.4/42$
 Out: -8.594 ± 0.117 $\chi^2/\text{NDF}: 2203.5/48$
 All: -8.817 ± 0.085 $\chi^2/\text{NDF}: 4159.6/91$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.086 ± 0.245 $\chi^2/\text{NDF}: 5927.1/19$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -29.002 ± 0.227 $\chi^2/\text{NDF}: 8768.7/23$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

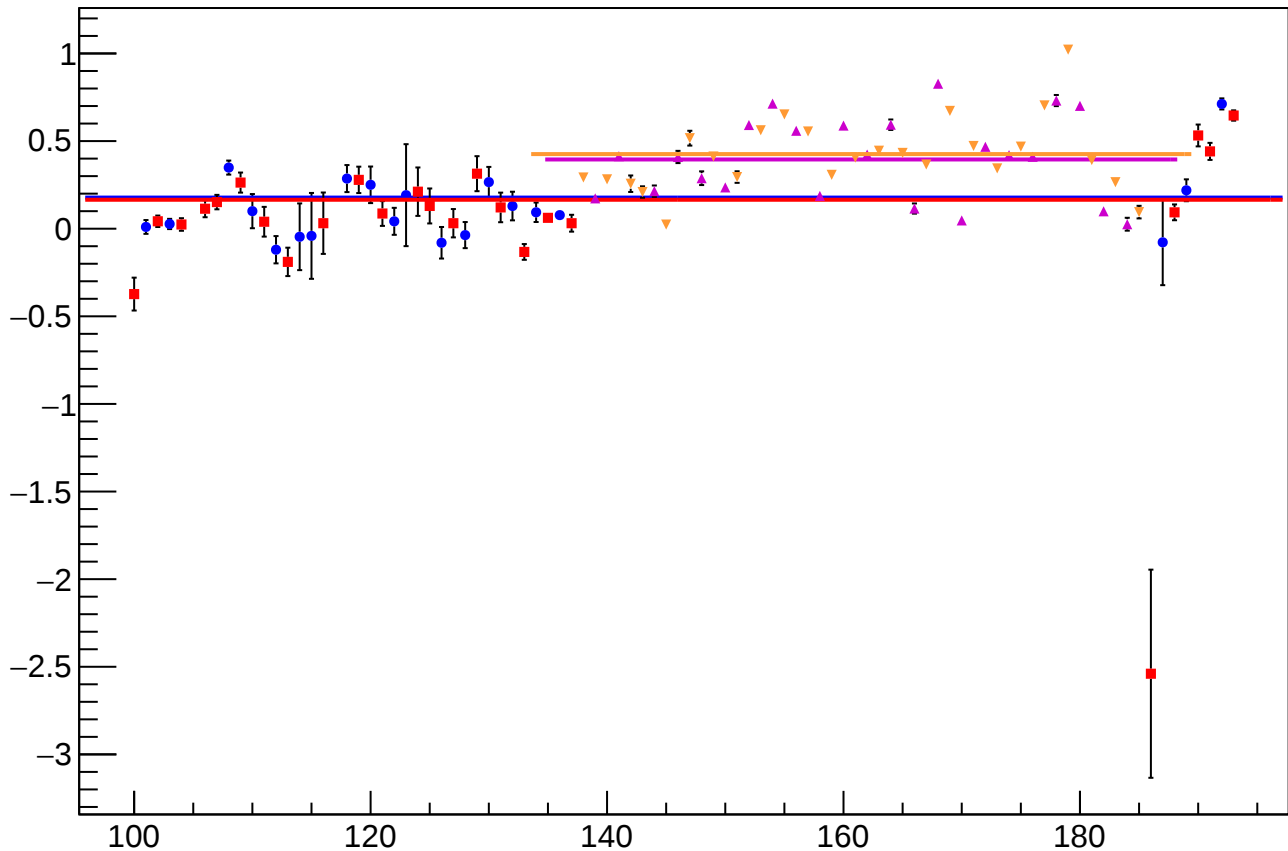
Right: -29.503 ± 0.167 $\chi^2/\text{NDF}: 14706.3/43$

In: -36.272 ± 0.109 $\chi^2/\text{NDF}: 7760.7/42$

Out: -36.075 ± 0.105 $\chi^2/\text{NDF}: 10948.3/48$

All: -36.169 ± 0.076 $\chi^2/\text{NDF}: 18710.7/91$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.178+/-0.012 χ^2/NDF : 412.9/19

Left Out: 0.426+/-0.005 χ^2/NDF :1303.7/24

Right Out: 0.165+/-0.011 χ^2/NDF : 520.8/23

Left In: 0.395+/-0.005 χ^2/NDF :1798.2/22

Left: 0.411+/-0.004 χ^2/NDF : 3118.1/47

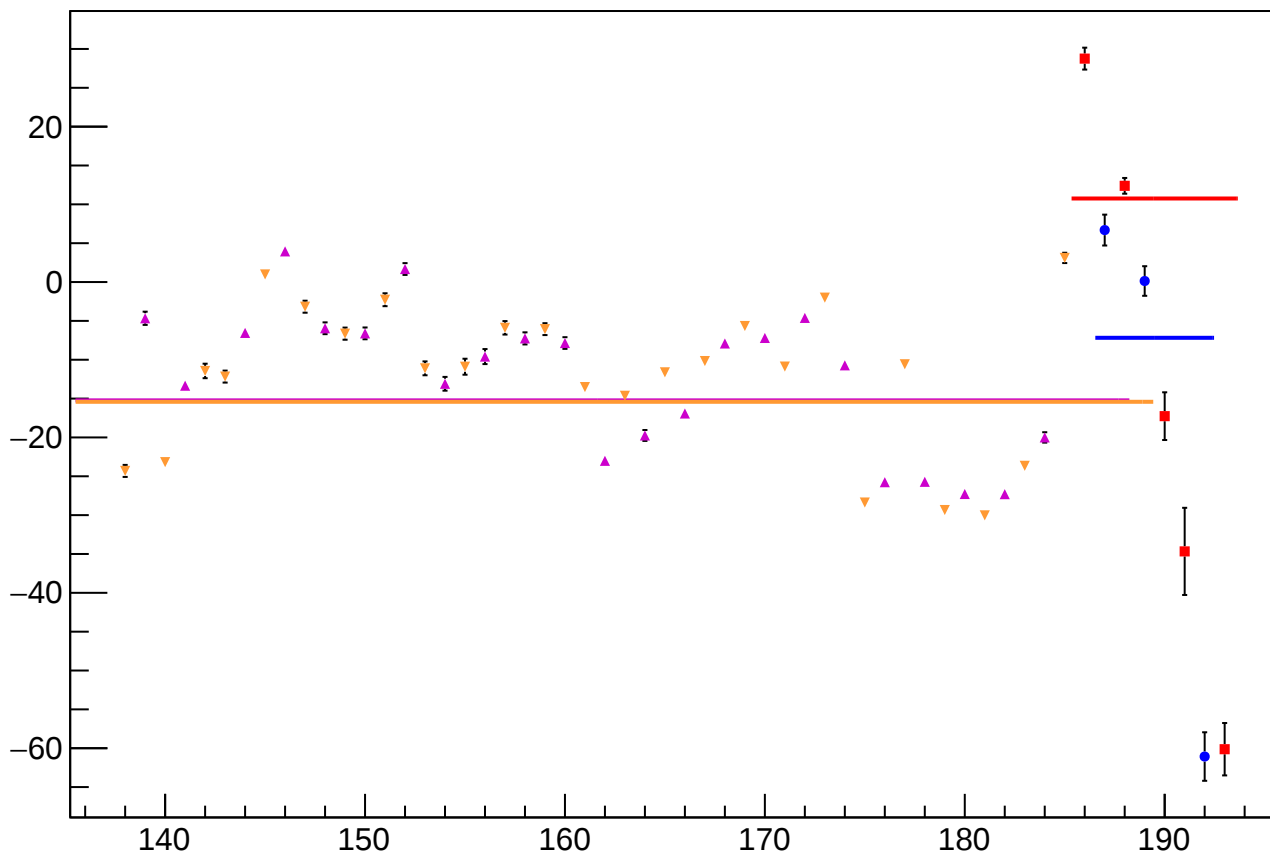
Right: 0.171+/-0.008 χ^2/NDF : 934.3/43

In: 0.356+/-0.005 χ^2/NDF :2499.3/42

Out: 0.372+/-0.005 χ^2/NDF :2312.6/48

All: 0.364+/-0.003 χ^2/NDF : 4817.0/91

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.176 ± 1.258 χ^2/NDF : 361.3/2
 Left Out: -15.413 ± 0.105 χ^2/NDF : 10509.1/24
 Right Out: 10.753 ± 0.766 χ^2/NDF : 756.6/4
 Left In: -15.229 ± 0.107 χ^2/NDF : 8657.3/22

Left: -15.322 ± 0.075 χ^2/NDF : 19167.9/47

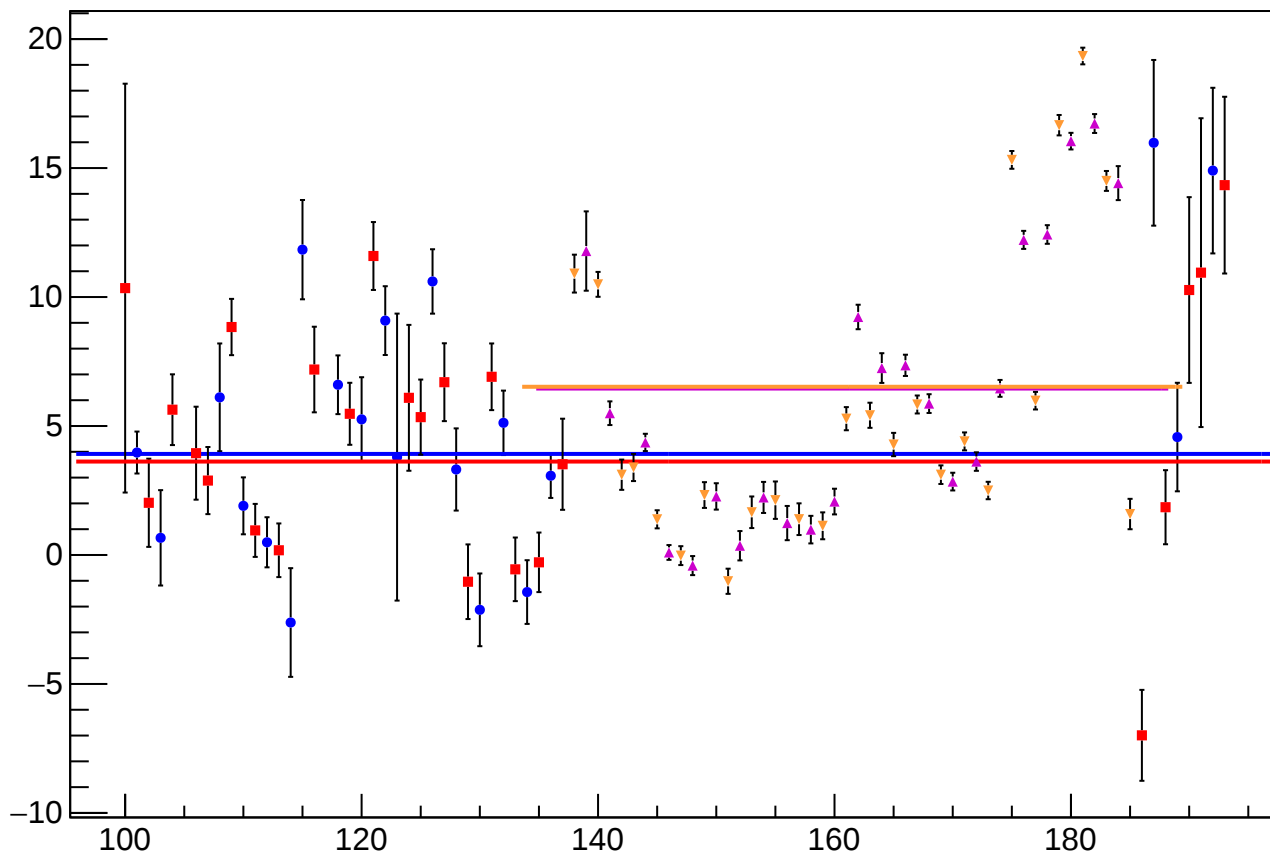
Right: 5.905 ± 0.654 χ^2/NDF : 1266.0/7

In: -15.172 ± 0.106 χ^2/NDF : 9059.3/25

Out: -14.928 ± 0.104 χ^2/NDF : 12410.7/29

All: -15.048 ± 0.074 χ^2/NDF : 21472.7/55

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.918 ± 0.305 χ^2/NDF : 161.6/19

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.622 ± 0.302 χ^2/NDF : 186.9/23

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

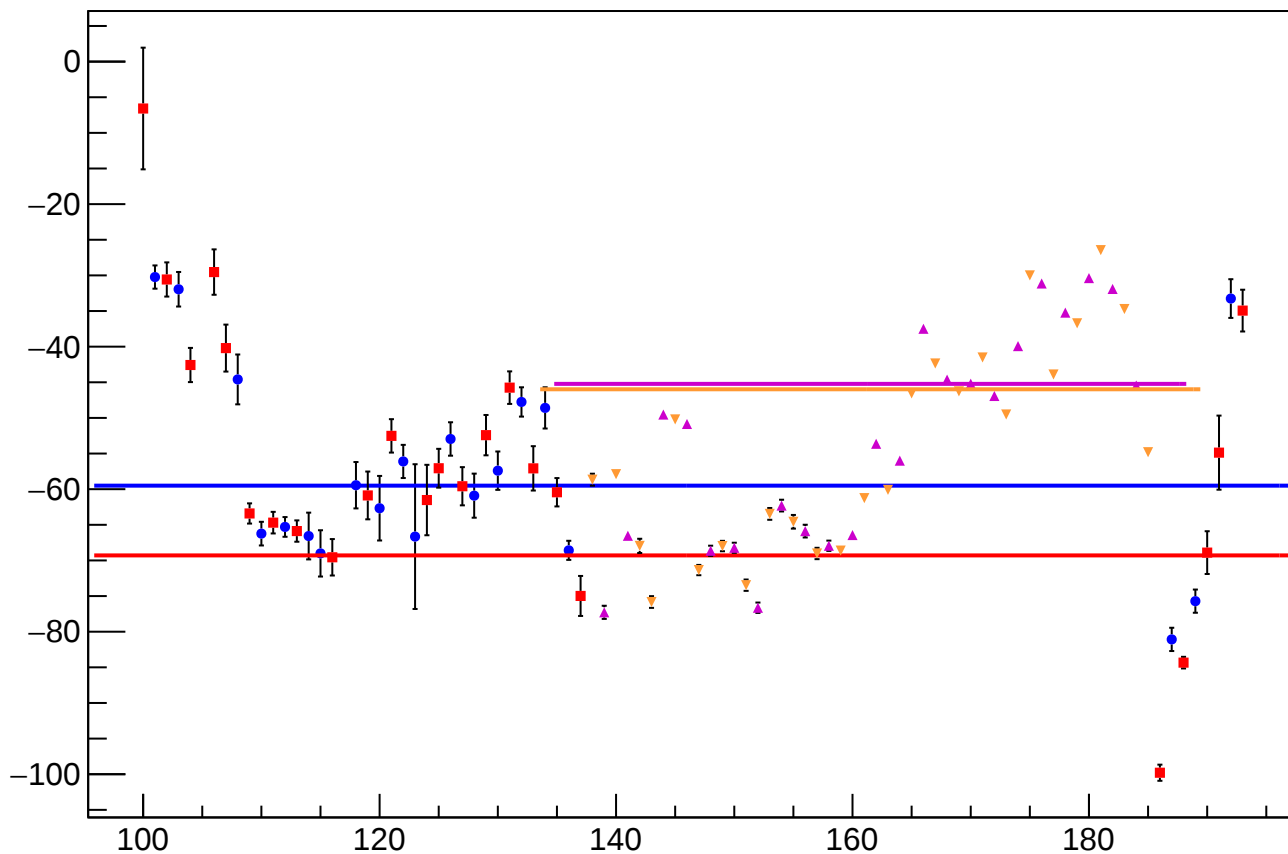
Right: 3.768 ± 0.215 χ^2/NDF : 348.9/43

In: 6.265 ± 0.083 χ^2/NDF : 4173.6/42

Out: 6.306 ± 0.082 χ^2/NDF : 5257.4/48

All: 6.286 ± 0.058 χ^2/NDF : 9431.2/91

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.505 ± 0.484 $\chi^2/\text{NDF}: 988.3/19$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -69.293 ± 0.408 $\chi^2/\text{NDF}: 2188.1/23$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

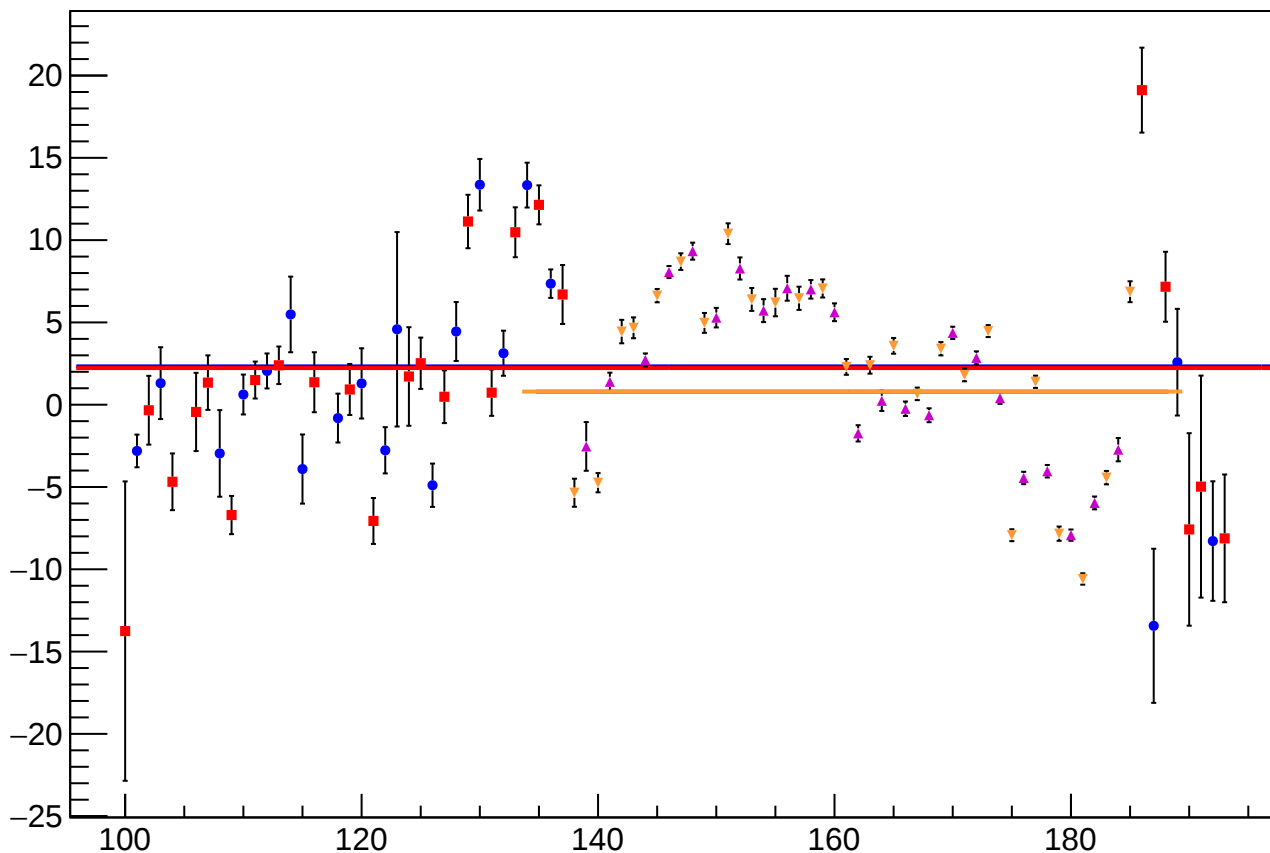
Right: -65.232 ± 0.312 $\chi^2/\text{NDF}: 3415.4/43$

In: -45.889 ± 0.105 $\chi^2/\text{NDF}: 17417.8/42$

Out: -47.464 ± 0.103 $\chi^2/\text{NDF}: 22608.0/48$

All: -46.690 ± 0.073 $\chi^2/\text{NDF}: 40141.0/91$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.328 $\pm$ 0.343 χ^2 /NDF: 262.4/19

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF:3760.0/24

Right Out: 2.226 $\pm$ 0.345 χ^2 /NDF: 324.7/23

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

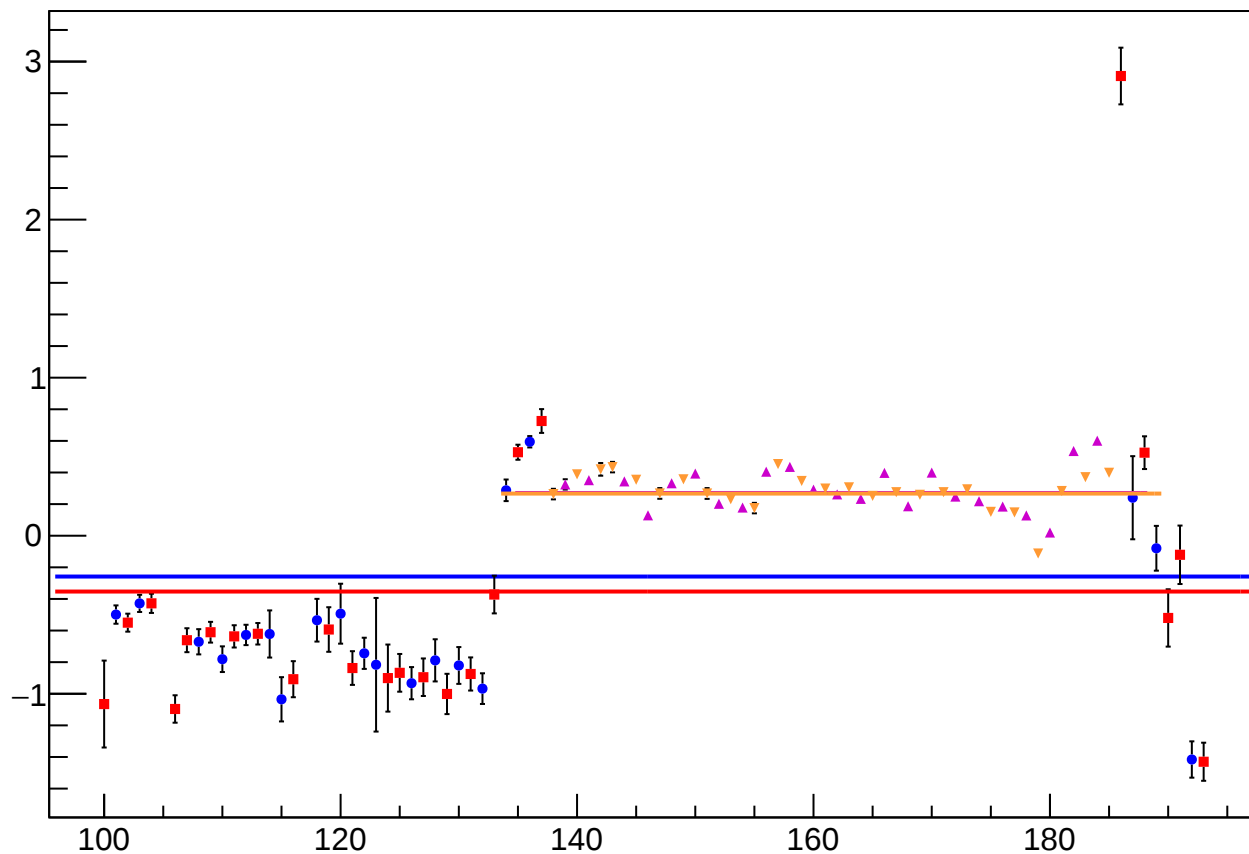
Right: 2.277 $\pm$ 0.243 χ^2 /NDF: 587.1/43

In: 0.905 $\pm$ 0.093 χ^2 /NDF:2973.4/42

Out: 0.899 $\pm$ 0.092 χ^2 /NDF:4100.5/48

All: 0.902 $\pm$ 0.065 χ^2 /NDF: 7074.0/91

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.258 ± 0.018 $\chi^2/\text{NDF}: 1065.6/19$

Left Out: 0.267 ± 0.004 $\chi^2/\text{NDF}: 699.8/24$

Right Out: -0.353 ± 0.018 $\chi^2/\text{NDF}: 1333.9/23$

Left In: 0.270 ± 0.004 $\chi^2/\text{NDF}: 969.9/22$

Left: 0.268 ± 0.003 $\chi^2/\text{NDF}: 1670.1/47$

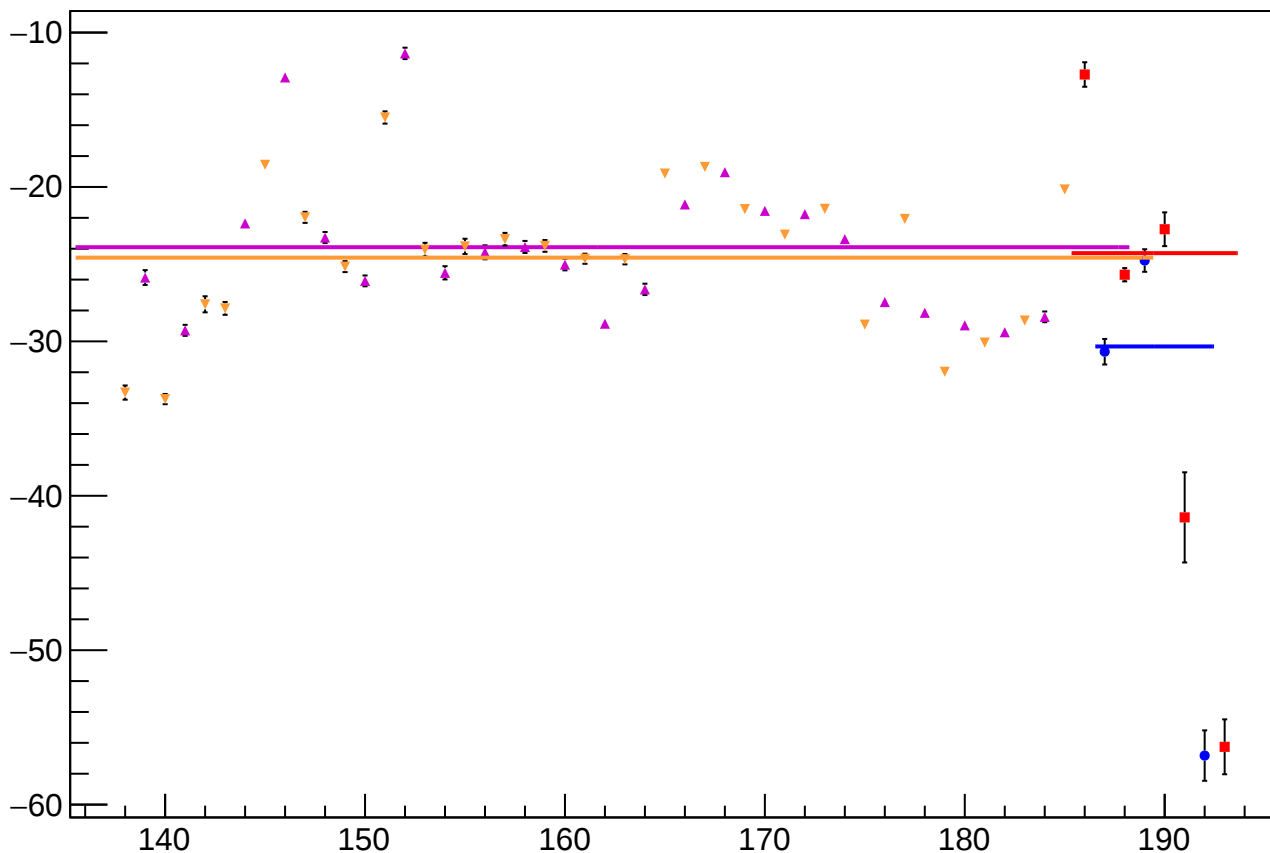
Right: -0.306 ± 0.013 $\chi^2/\text{NDF}: 2412.9/43$

In: 0.242 ± 0.004 $\chi^2/\text{NDF}: 2810.4/42$

Out: 0.233 ± 0.004 $\chi^2/\text{NDF}: 3131.3/48$

All: 0.237 ± 0.003 $\chi^2/\text{NDF}: 5943.8/91$

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.329 ± 0.519 $\chi^2/\text{NDF}: 321.5/2$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -24.286 ± 0.348 $\chi^2/\text{NDF}: 582.8/4$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

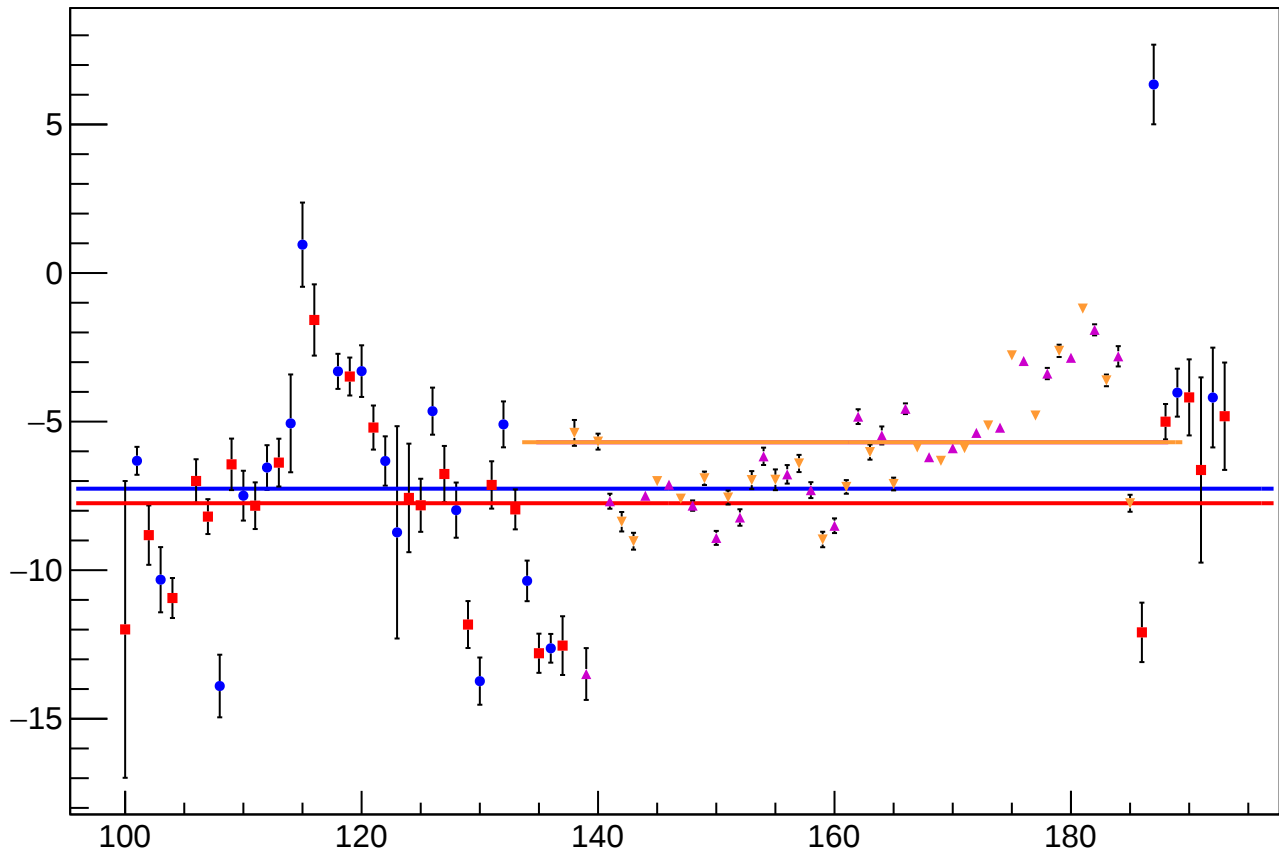
Right: -26.161 ± 0.289 $\chi^2/\text{NDF}: 997.7/7$

In: -23.963 ± 0.051 $\chi^2/\text{NDF}: 9628.2/25$

Out: -24.571 ± 0.050 $\chi^2/\text{NDF}: 9173.9/29$

All: -24.269 ± 0.036 $\chi^2/\text{NDF}: 18874.3/55$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.257 ± 0.180 χ^2/NDF : 507.0/19

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.747 ± 0.172 χ^2/NDF : 275.3/23

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

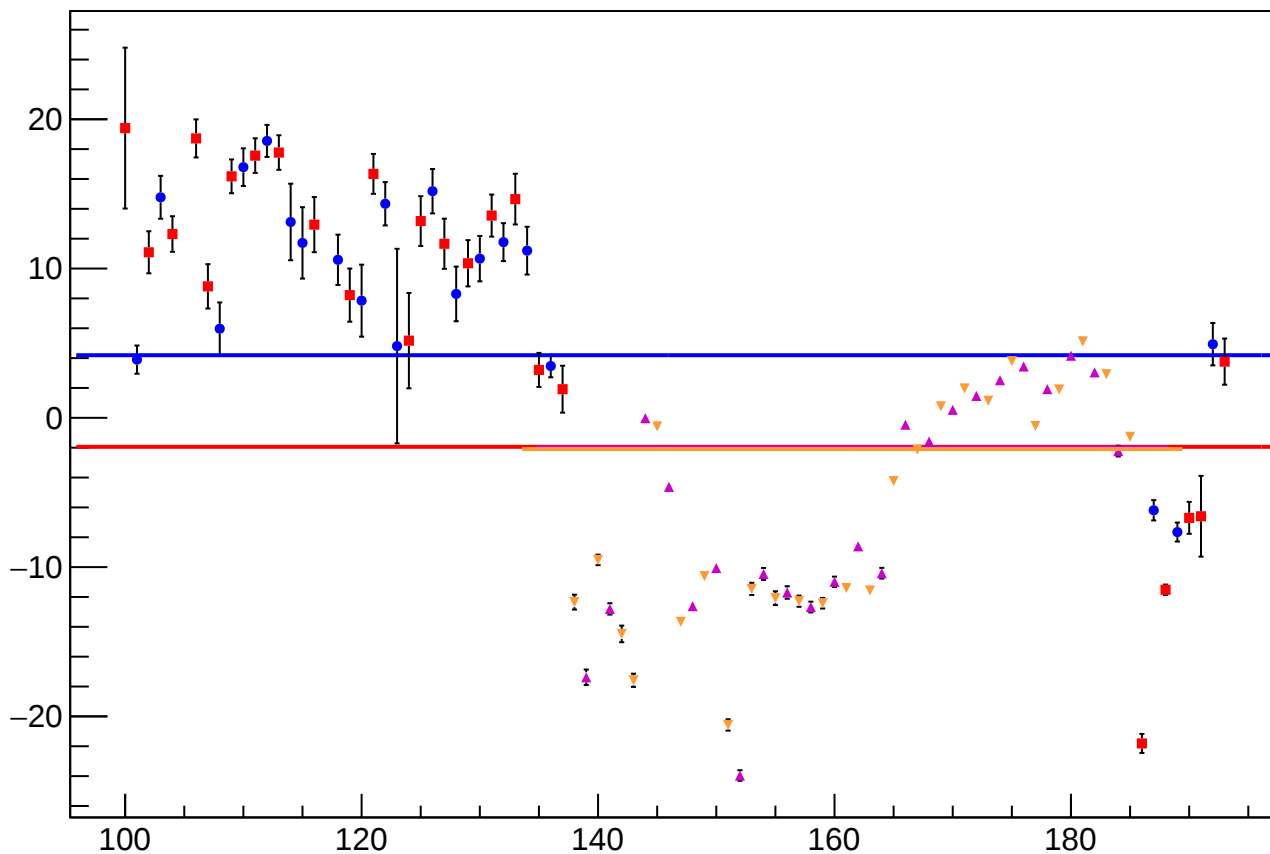
Right: -7.513 ± 0.124 χ^2/NDF : 786.2/43

In: -5.773 ± 0.040 χ^2/NDF : 2888.5/42

Out: -5.805 ± 0.040 χ^2/NDF : 2668.0/48

All: -5.789 ± 0.028 χ^2/NDF : 5556.8/91

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.194 ± 0.269 $\chi^2/\text{NDF}: 1135.6/19$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.942 ± 0.217 $\chi^2/\text{NDF}: 3906.7/23$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$

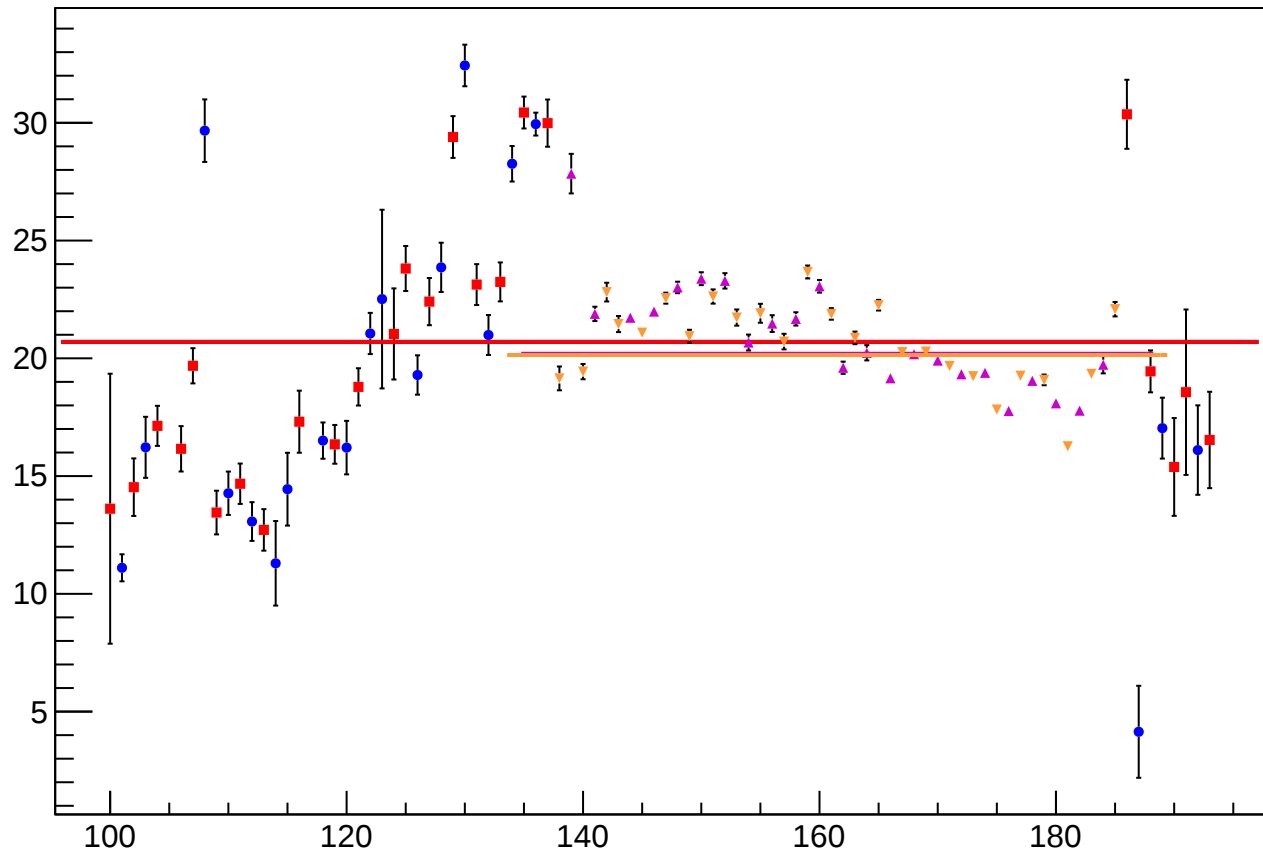
Right: 0.480 ± 0.169 $\chi^2/\text{NDF}: 5358.0/43$

In: -1.764 ± 0.050 $\chi^2/\text{NDF}: 17027.6/42$

Out: -2.084 ± 0.050 $\chi^2/\text{NDF}: 20212.4/48$

All: -1.925 ± 0.035 $\chi^2/\text{NDF}: 37260.4/91$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.697 $\pm$ 0.206 χ^2 /NDF: 1297.8/19

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.697 $\pm$ 0.203 χ^2 /NDF: 778.2/23

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

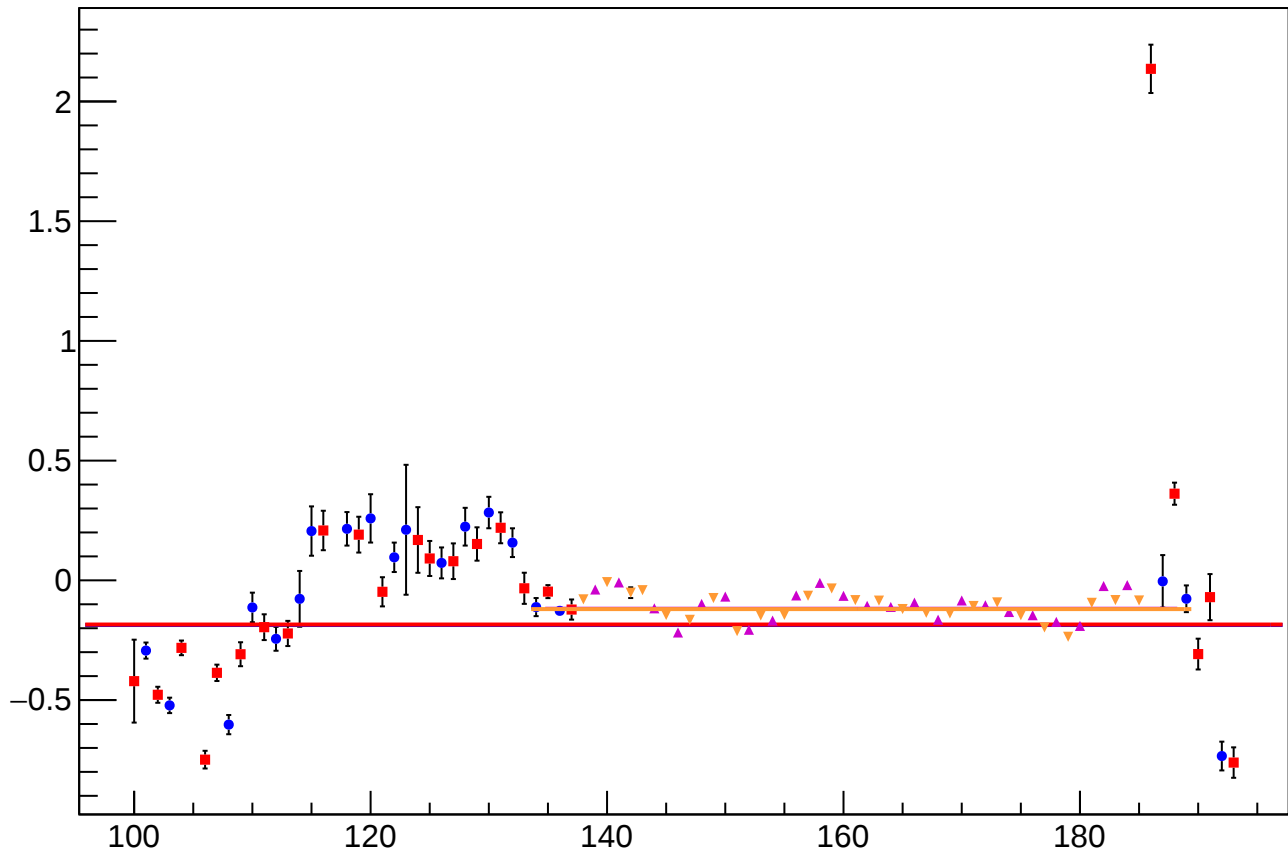
Right: 20.697 $\pm$ 0.145 χ^2 /NDF: 2075.9/43

In: 20.218 $\pm$ 0.045 χ^2 /NDF: 2750.8/42

Out: 20.168 $\pm$ 0.045 χ^2 /NDF: 2204.4/48

All: 20.193 $\pm$ 0.032 χ^2 /NDF: 4955.9/91

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.187 ± 0.011 χ^2/NDF : 549.1/19

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.185 ± 0.010 χ^2/NDF : 1301.6/23

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

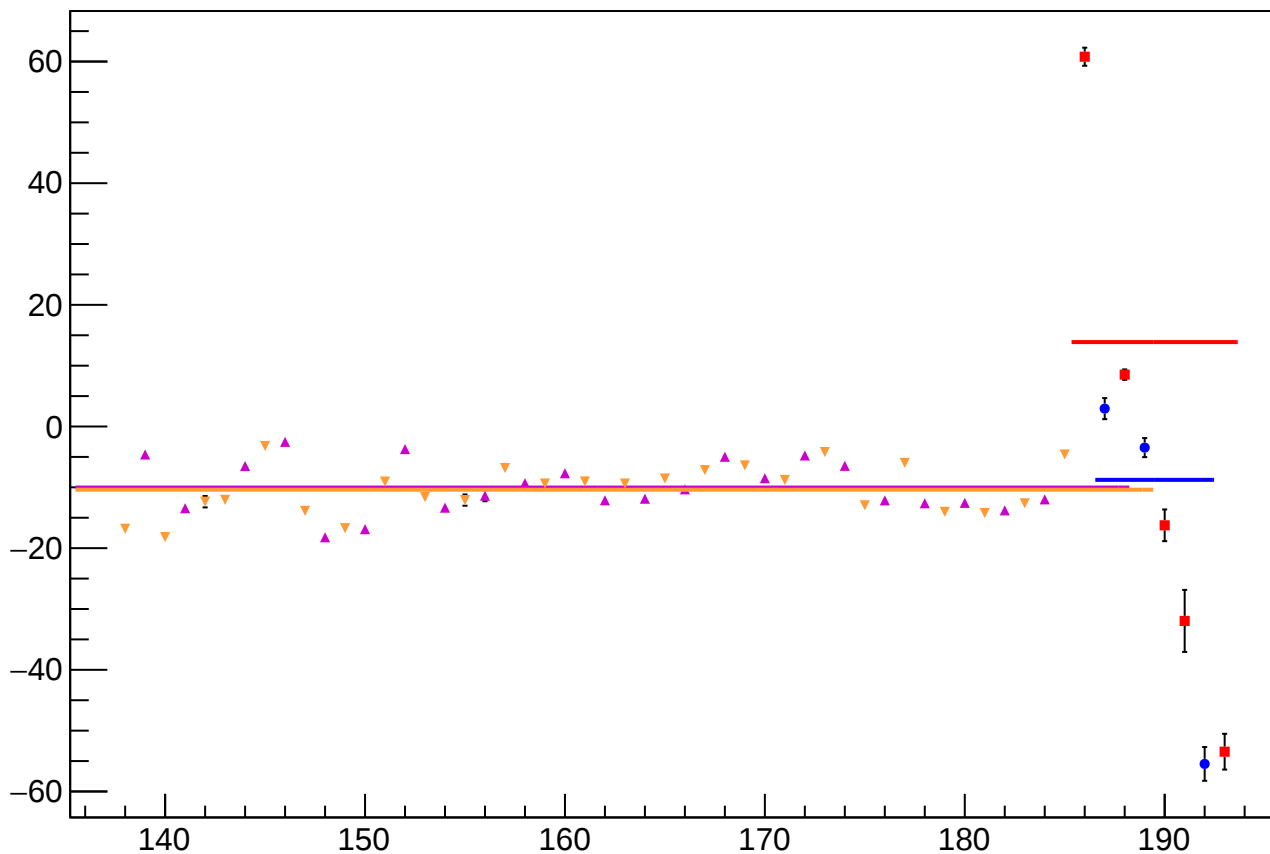
Right: -0.186 ± 0.007 χ^2/NDF : 1850.7/43

In: -0.121 ± 0.002 χ^2/NDF : 1309.2/42

Out: -0.123 ± 0.002 χ^2/NDF : 1869.8/48

All: -0.122 ± 0.001 χ^2/NDF : 3179.3/91

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

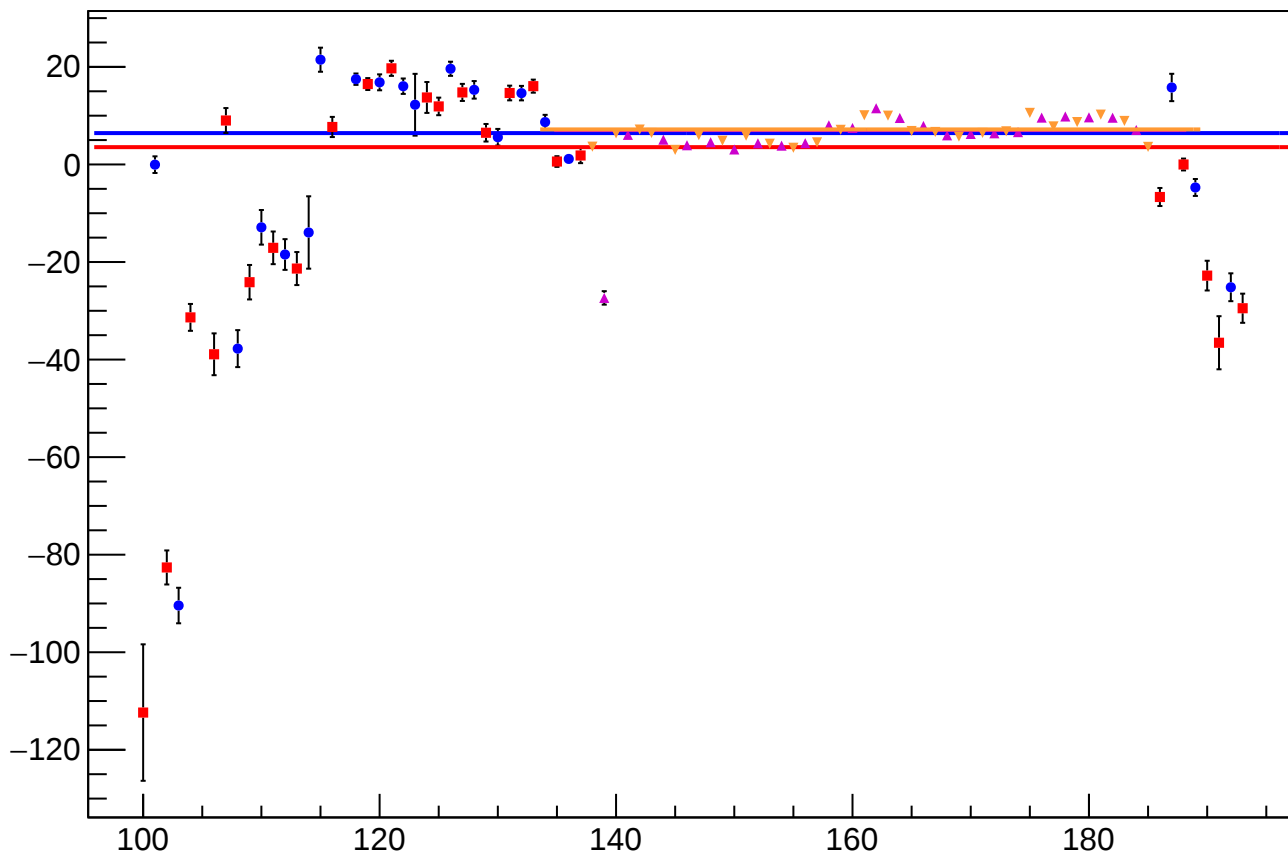


Right In: -8.769 ± 1.072 $\chi^2/\text{NDF}: 340.1/2$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 13.878 ± 0.689 $\chi^2/\text{NDF}: 1773.3/4$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: 7.265 ± 0.579 $\chi^2/\text{NDF}: 2429.2/7$
 In: -10.027 ± 0.089 $\chi^2/\text{NDF}: 2100.1/25$
 Out: -10.002 ± 0.087 $\chi^2/\text{NDF}: 5107.1/29$

All: -10.014 ± 0.062 $\chi^2/\text{NDF}: 7207.2/55$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.430 ± 0.389 χ^2/NDF : 1522.3/19

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 3.549 ± 0.392 χ^2/NDF : 1835.4/23

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

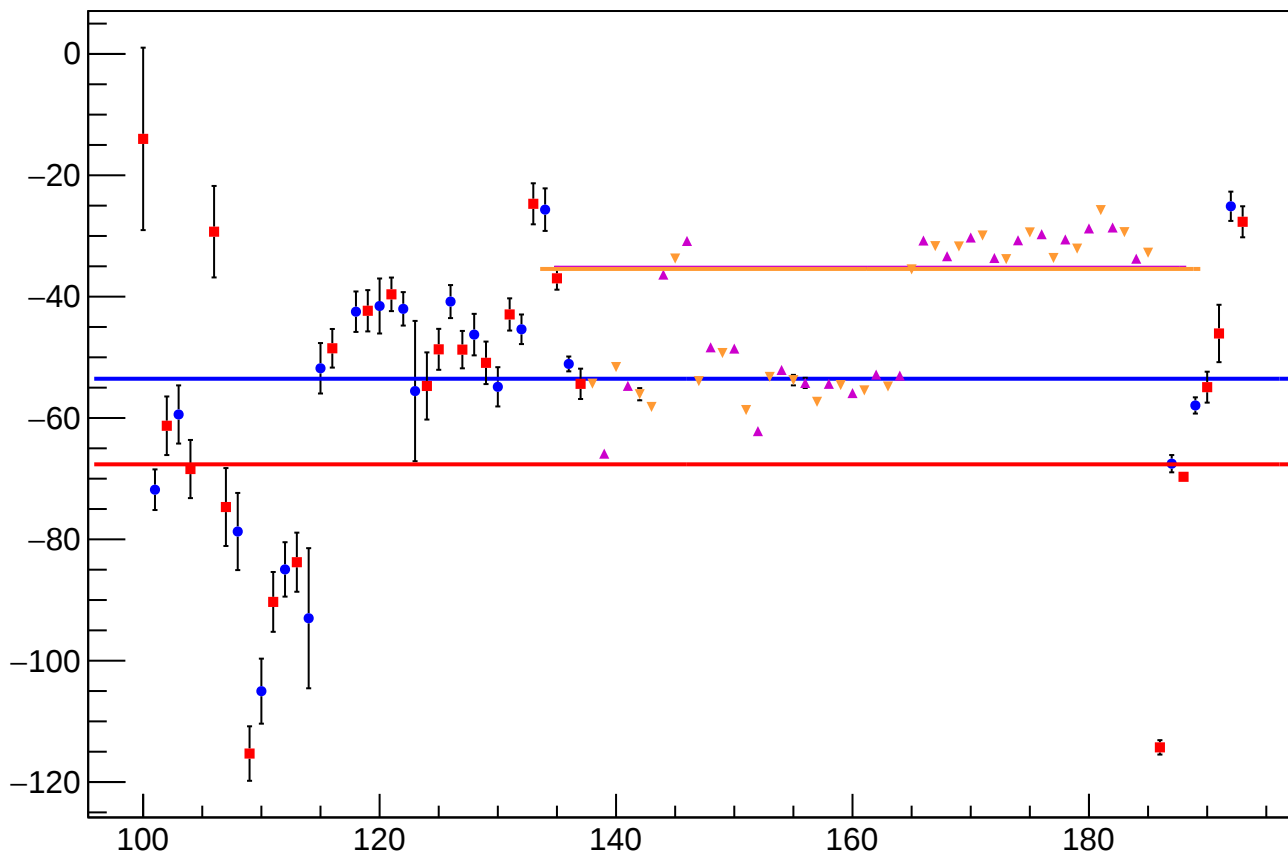
Right: 5.001 ± 0.276 χ^2/NDF : 3384.9/43

In: 7.031 ± 0.073 χ^2/NDF : 3060.6/42

Out: 7.061 ± 0.072 χ^2/NDF : 2835.9/48

All: 7.046 ± 0.051 χ^2/NDF : 5896.5/91

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.530 ± 0.573 $\chi^2/\text{NDF}: 586.9/19$
 Left Out: -35.434 ± 0.089 $\chi^2/\text{NDF}: 12782.8/24$
 Right Out: -67.637 ± 0.461 $\chi^2/\text{NDF}: 2862.0/23$
 Left In: -35.229 ± 0.090 $\chi^2/\text{NDF}: 11602.9/22$

Left: -35.333 ± 0.063 $\chi^2/\text{NDF}: 24388.3/47$

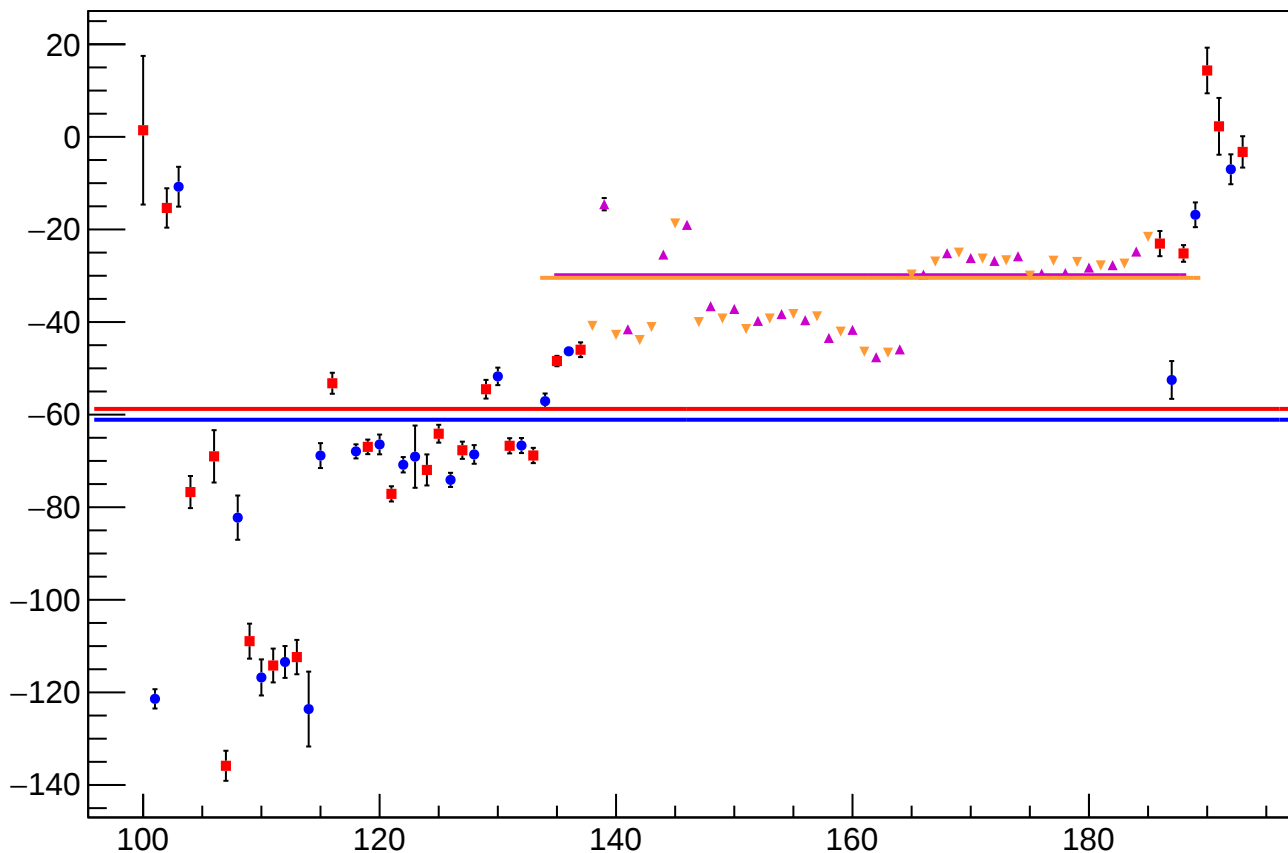
Right: -62.100 ± 0.359 $\chi^2/\text{NDF}: 3816.6/43$

In: -35.670 ± 0.089 $\chi^2/\text{NDF}: 13184.2/42$

Out: -36.592 ± 0.087 $\chi^2/\text{NDF}: 20351.5/48$

All: -36.140 ± 0.062 $\chi^2/\text{NDF}: 33590.4/91$

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -61.102 ± 0.436 χ^2/NDF : 2593.8/19

Left Out: -30.448 ± 0.082 χ^2/NDF : 8167.7/24

Right Out: -58.763 ± 0.453 χ^2/NDF : 2854.2/23

Left In: -29.892 ± 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 ± 0.058 χ^2/NDF : 15305.7/47

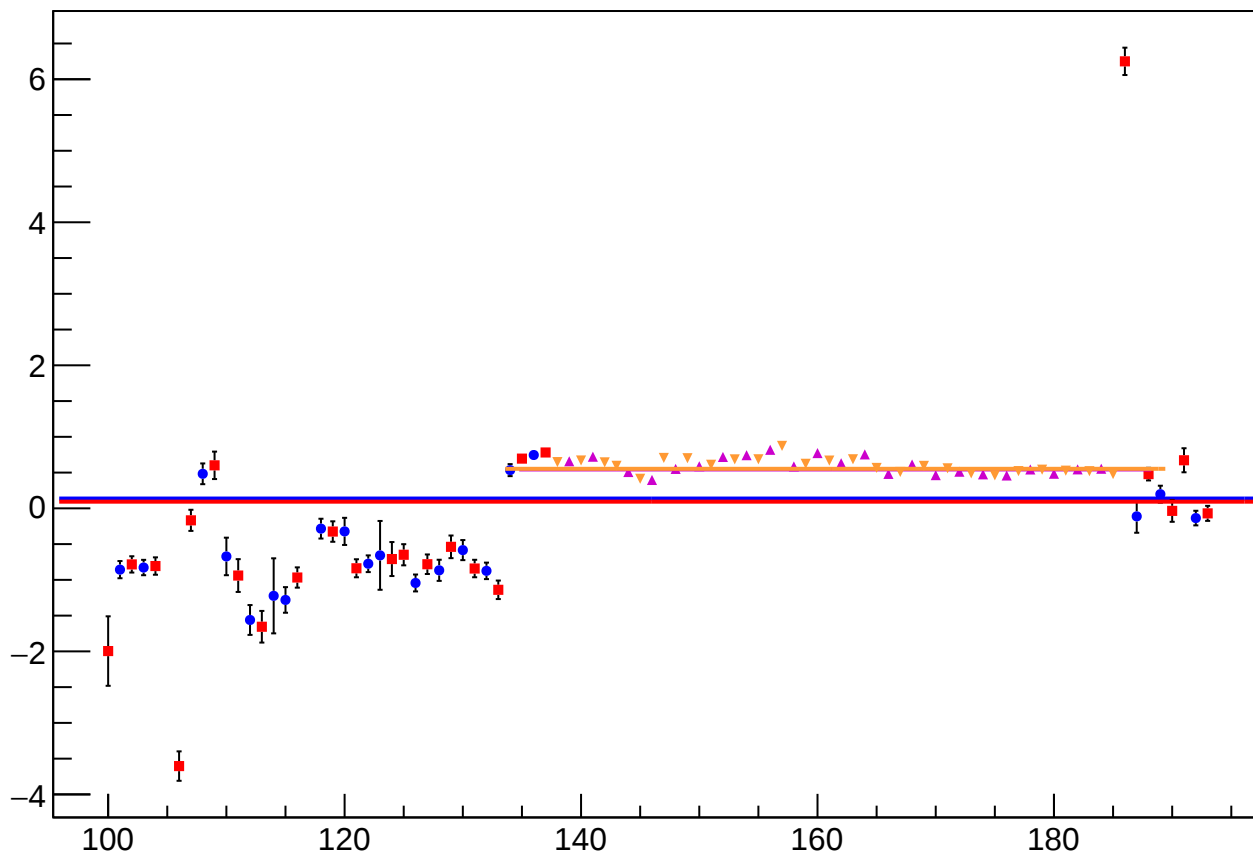
Right: -59.976 ± 0.314 χ^2/NDF : 5461.8/43

In: -30.971 ± 0.081 χ^2/NDF : 14646.6/42

Out: -31.336 ± 0.080 χ^2/NDF : 14803.9/48

All: -31.155 ± 0.057 χ^2/NDF : 29460.8/91

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137+/-0.023 χ^2/NDF : 996.4/19

Left Out: 0.553+/-0.004 χ^2/NDF : 542.1/24

Right Out: 0.093+/-0.024 χ^2/NDF : 2264.6/23

Left In: 0.544+/-0.004 χ^2/NDF : 655.9/22

Left: 0.548+/-0.003 χ^2/NDF : 1200.9/47

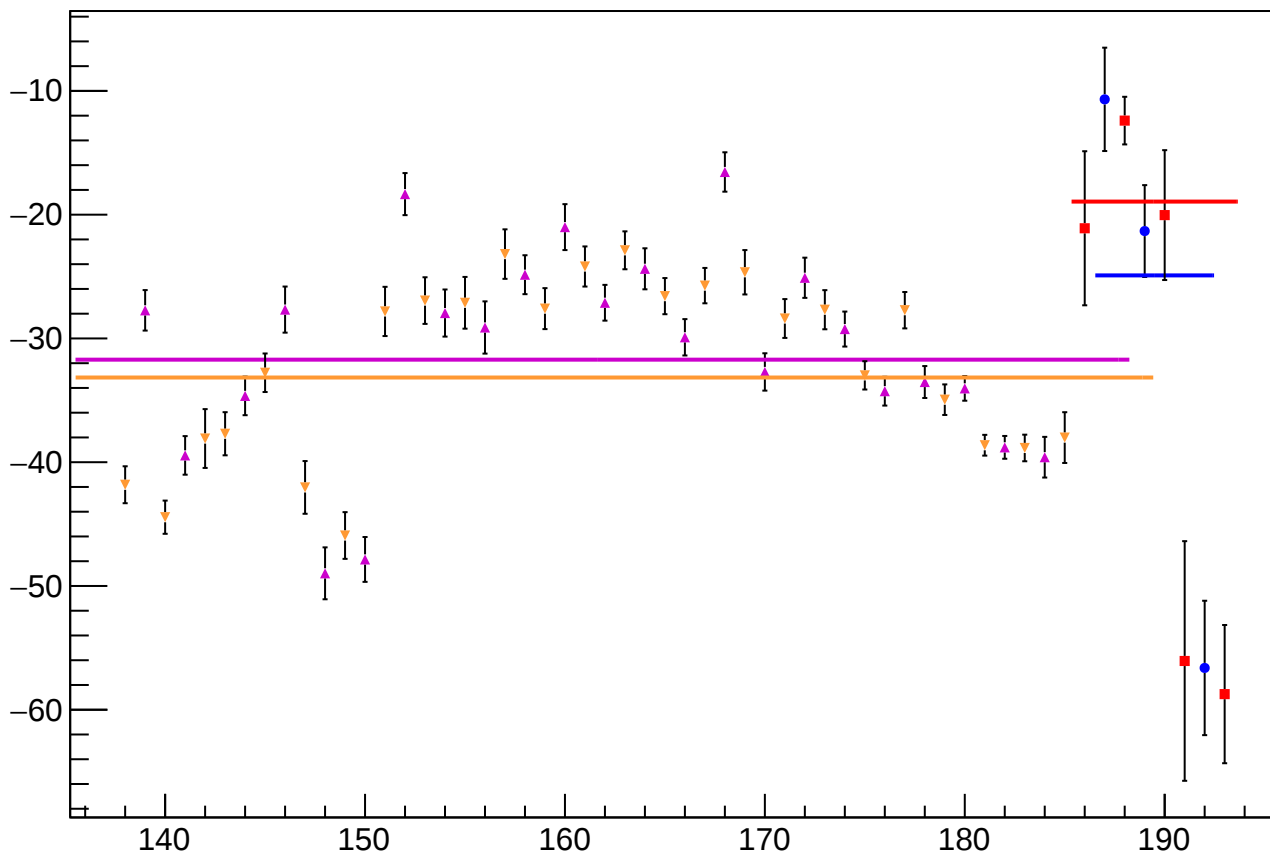
Right: 0.116+/-0.016 χ^2/NDF : 3262.7/43

In: 0.533+/-0.004 χ^2/NDF : 1960.6/42

Out: 0.542+/-0.004 χ^2/NDF : 3171.1/48

All: 0.537+/-0.003 χ^2/NDF : 5134.7/91

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.906 ± 2.470 $\chi^2/\text{NDF}: 46.7/2$

Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$

Right Out: -18.942 ± 1.633 $\chi^2/\text{NDF}: 77.2/4$

Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$

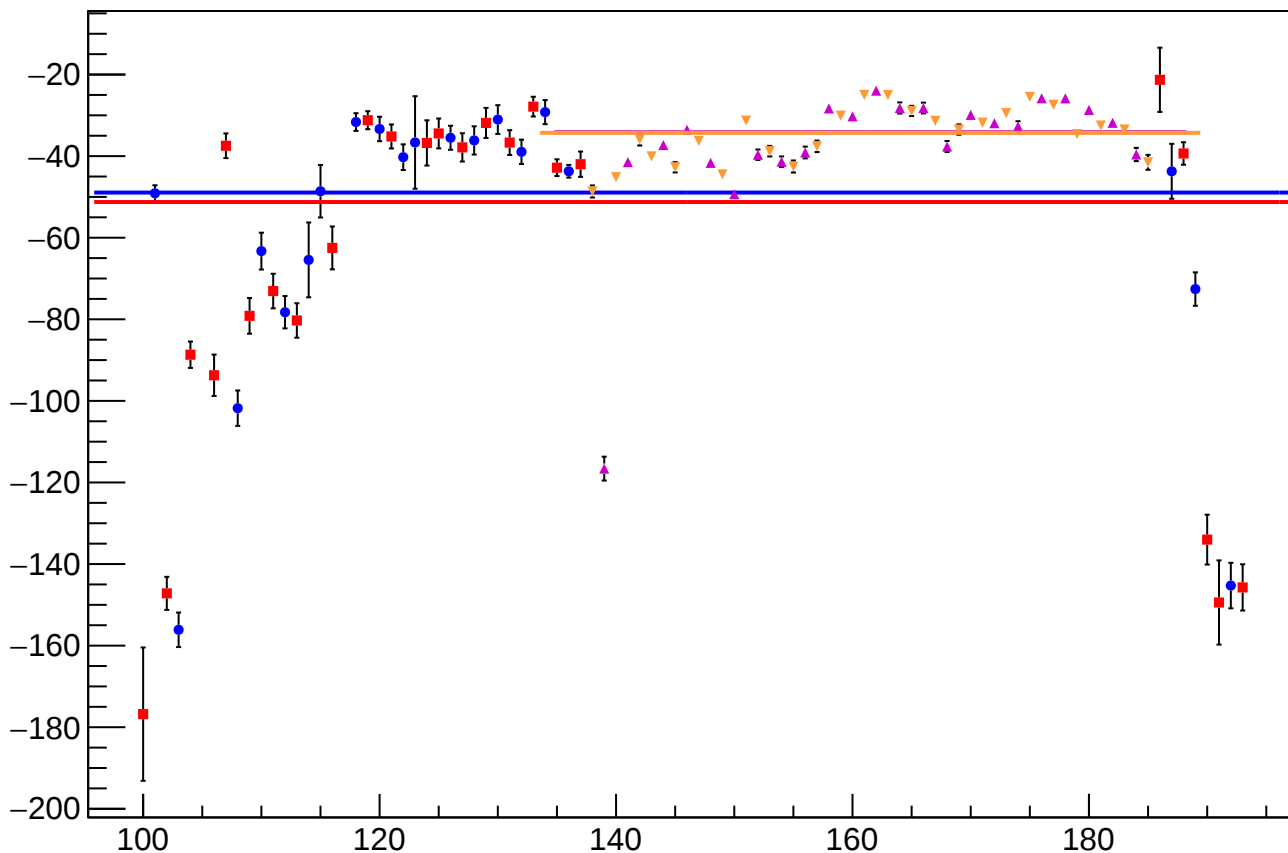
Right: -20.756 ± 1.362 $\chi^2/\text{NDF}: 127.9/7$

In: -31.610 ± 0.307 $\chi^2/\text{NDF}: 596.4/25$

Out: -32.692 ± 0.295 $\chi^2/\text{NDF}: 650.6/29$

All: -32.171 ± 0.213 $\chi^2/\text{NDF}: 1253.5/55$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -48.928 ± 0.709 $\chi^2/\text{NDF}: 1418.2/19$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -51.253 ± 0.721 $\chi^2/\text{NDF}: 1871.2/23$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

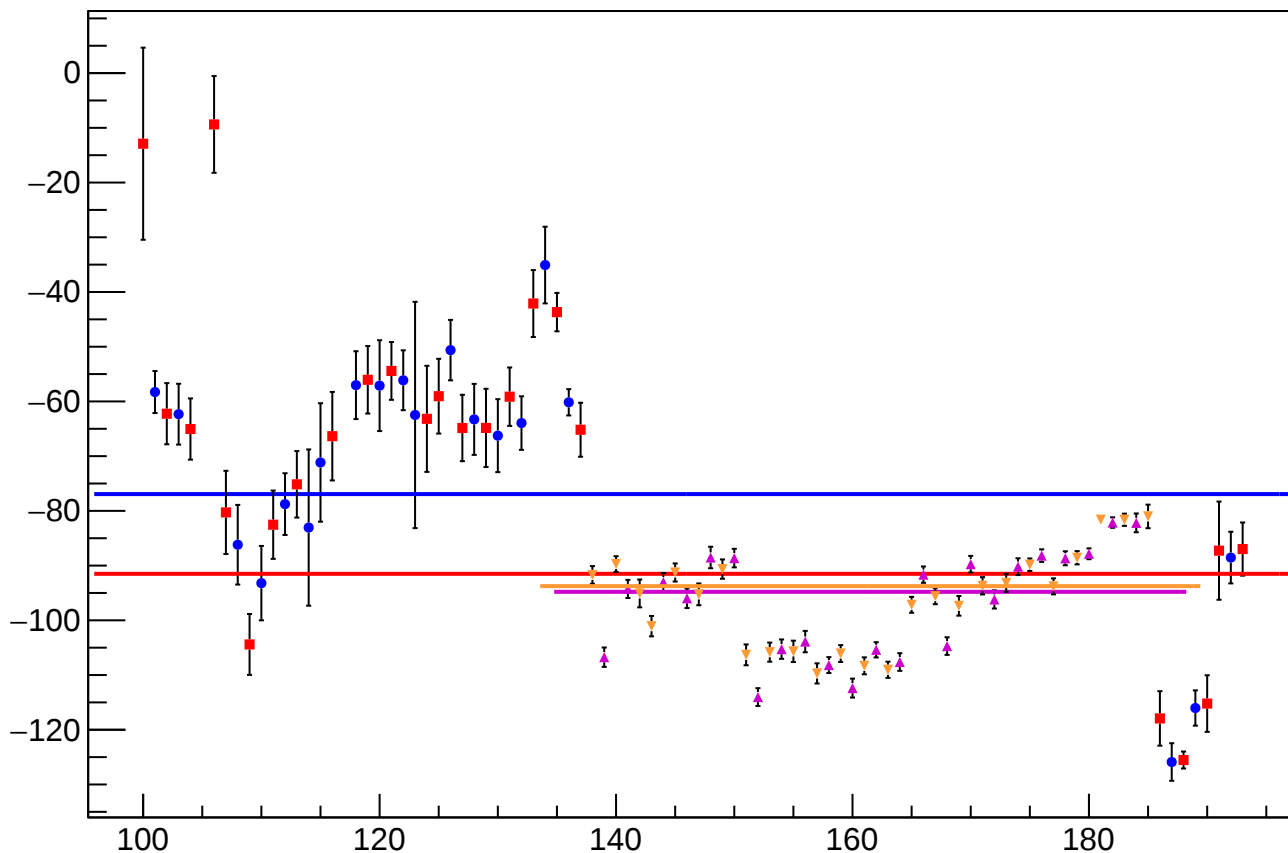
Right: -50.072 ± 0.505 $\chi^2/\text{NDF}: 3294.7/43$

In: -35.788 ± 0.236 $\chi^2/\text{NDF}: 3256.9/42$

Out: -36.000 ± 0.229 $\chi^2/\text{NDF}: 3065.0/48$

All: -35.897 ± 0.164 $\chi^2/\text{NDF}: 6322.4/91$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.933 ± 1.116 $\chi^2/\text{NDF}: 547.2/19$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -91.502 ± 0.966 $\chi^2/\text{NDF}: 1177.3/23$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

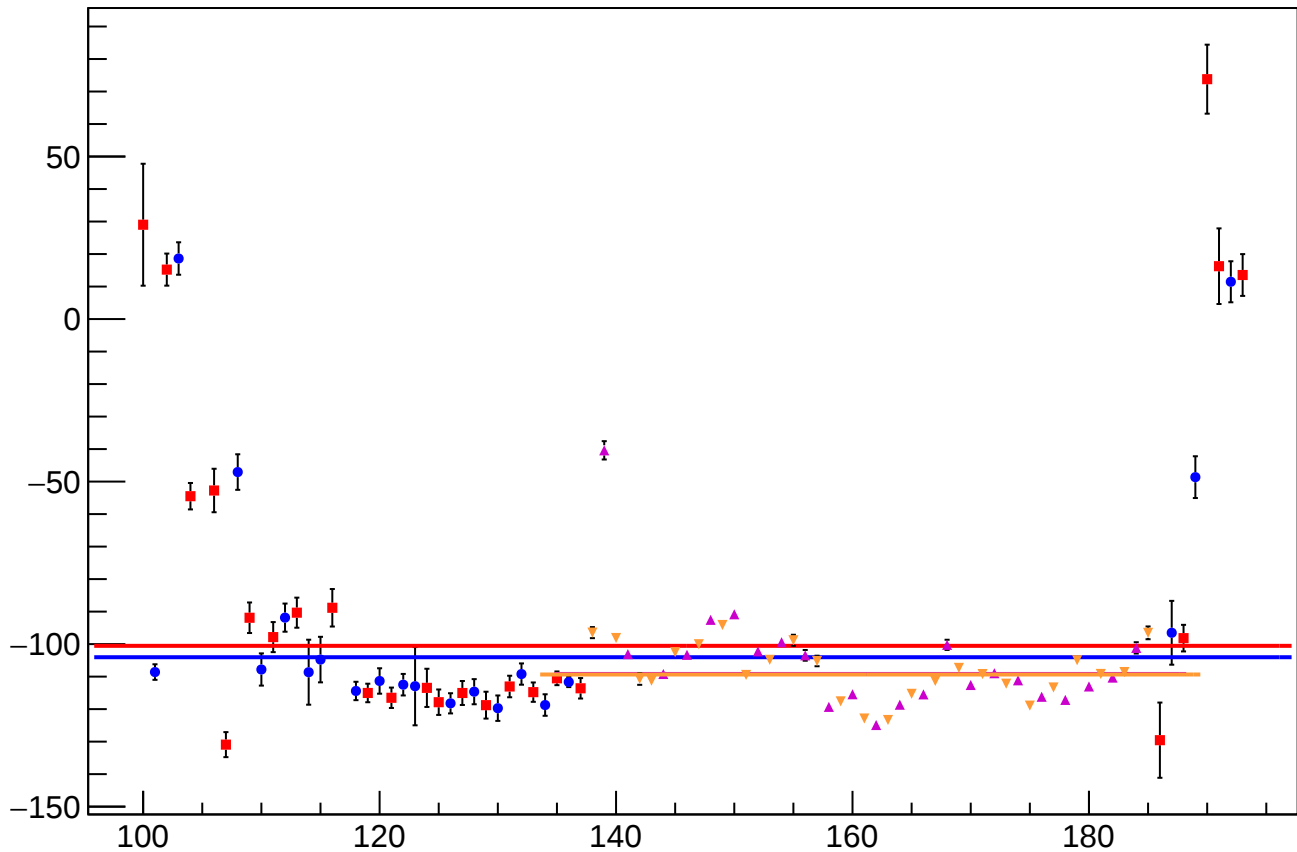
Right: -85.263 ± 0.731 $\chi^2/\text{NDF}: 1821.8/43$

In: -93.529 ± 0.297 $\chi^2/\text{NDF}: 1759.7/42$

Out: -93.554 ± 0.288 $\chi^2/\text{NDF}: 2065.3/48$

All: -93.542 ± 0.207 $\chi^2/\text{NDF}: 3825.0/91$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -104.035 ± 0.802 χ^2/NDF : 1248.9/19

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -100.532 ± 0.830 χ^2/NDF : 1732.0/23

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

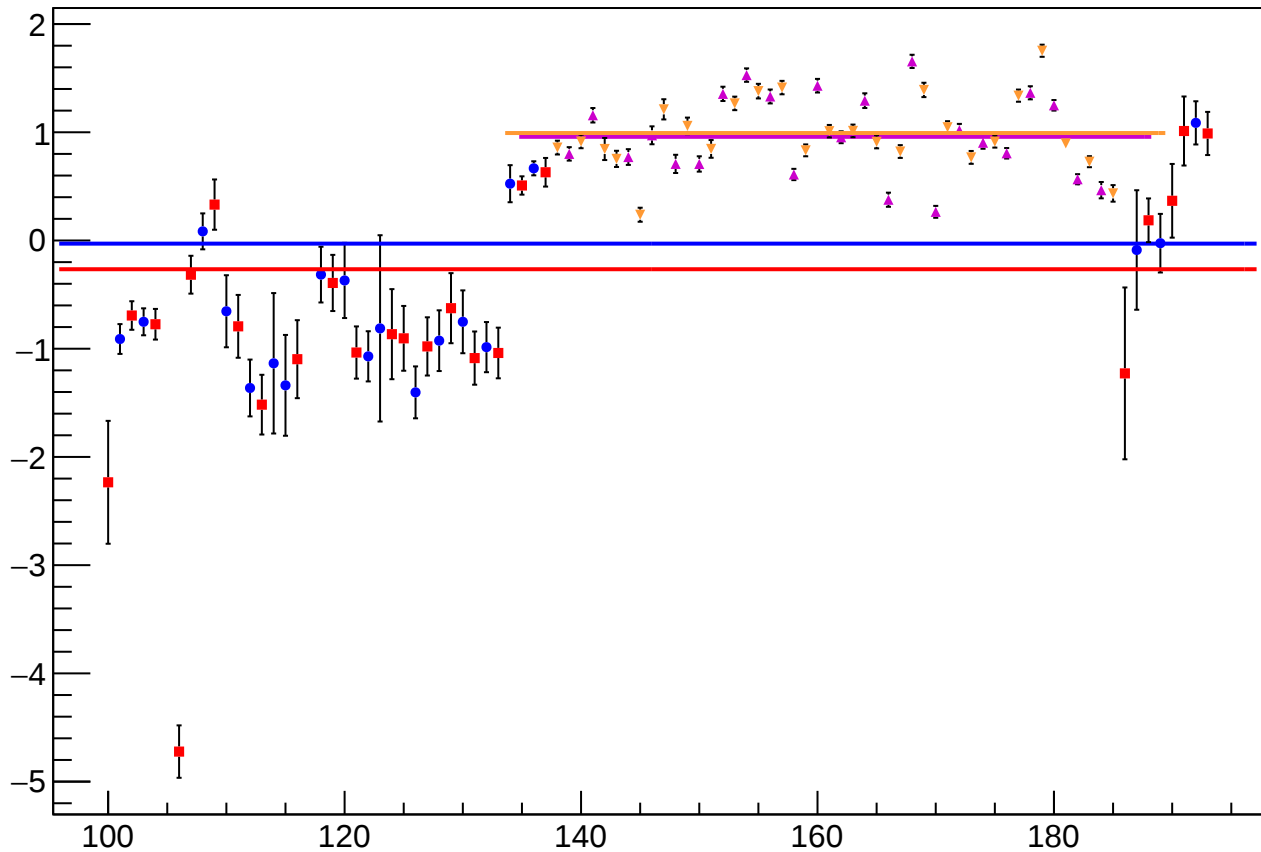
Right: -102.343 ± 0.577 χ^2/NDF : 2990.1/43

In: -108.625 ± 0.264 χ^2/NDF : 2786.8/42

Out: -108.500 ± 0.258 χ^2/NDF : 2660.9/48

All: -108.561 ± 0.185 χ^2/NDF : 5447.8/91

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.029 ± 0.041 χ^2/NDF : 361.2/19

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: -0.266 ± 0.041 χ^2/NDF : 652.5/23

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

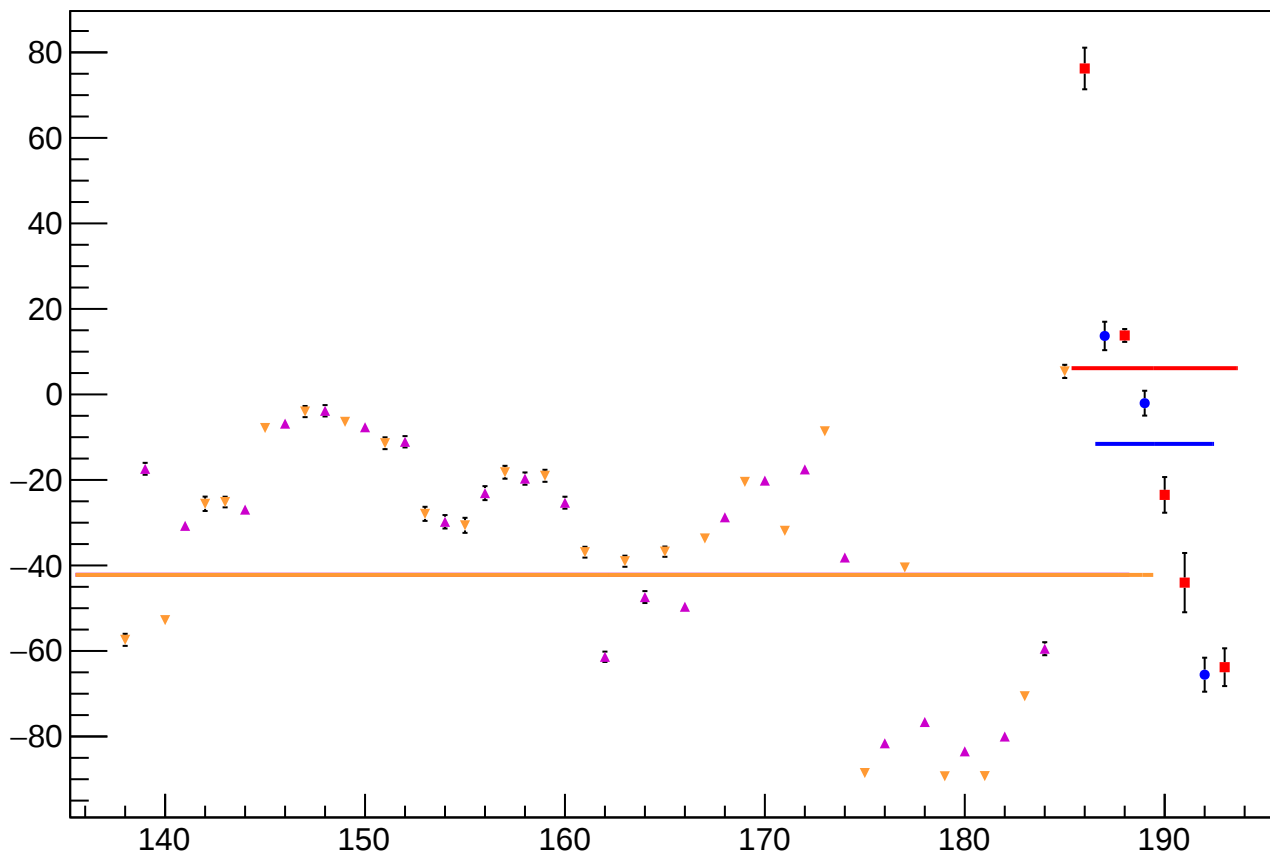
Right: -0.146 ± 0.029 χ^2/NDF : 1030.3/43

In: 0.871 ± 0.012 χ^2/NDF : 1789.7/42

Out: 0.889 ± 0.012 χ^2/NDF : 2141.2/48

All: 0.880 ± 0.008 χ^2/NDF : 3932.1/91

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.569 ± 1.917 χ^2/NDF : 252.6/2

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: 6.138 ± 1.279 χ^2/NDF : 586.4/4

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

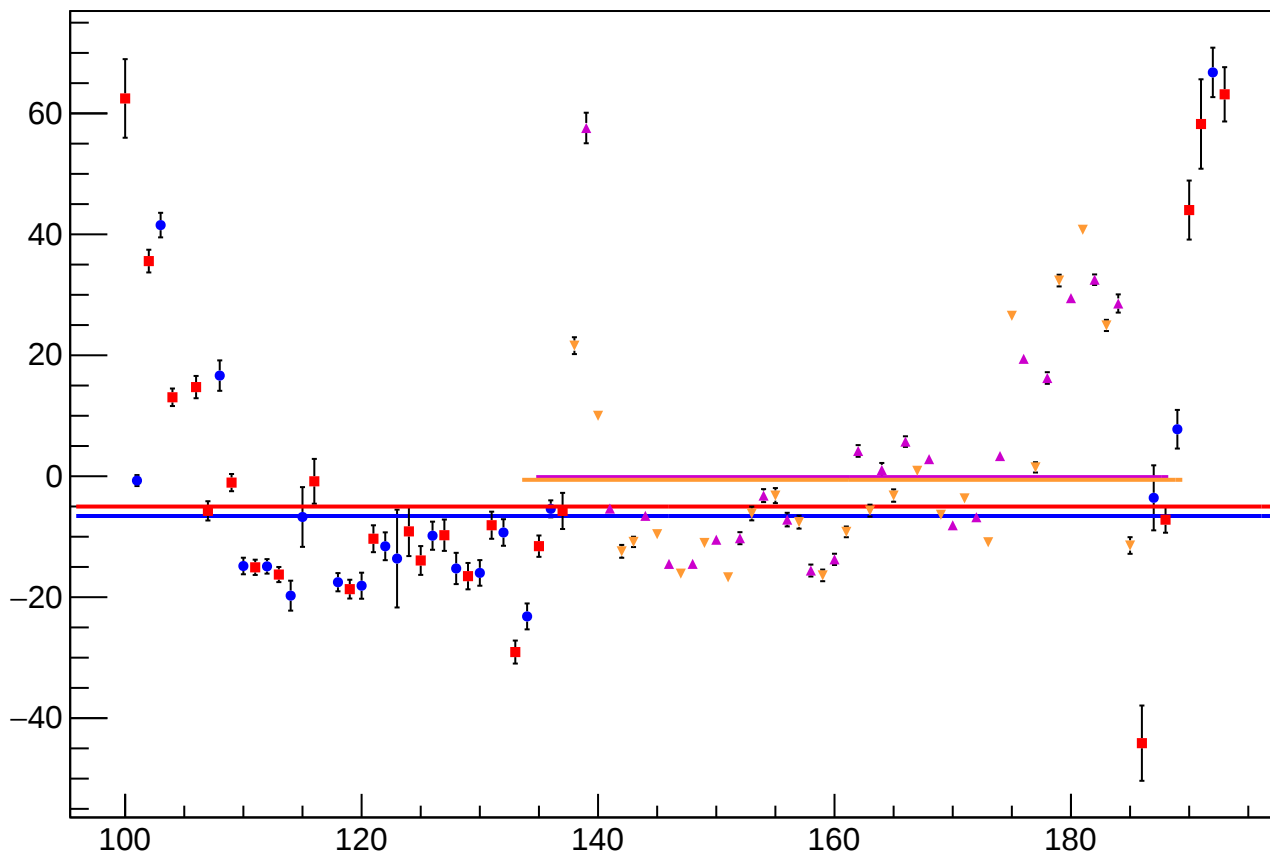
Right: 0.686 ± 1.064 χ^2/NDF : 898.1/7

In: -41.753 ± 0.225 χ^2/NDF : 15079.9/25

Out: -40.798 ± 0.219 χ^2/NDF : 20283.4/29

All: -41.261 ± 0.157 χ^2/NDF : 35372.5/55

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.574 ± 0.423 χ^2/NDF : 1324.7/19

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: -5.010 ± 0.416 χ^2/NDF : 1748.3/23

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

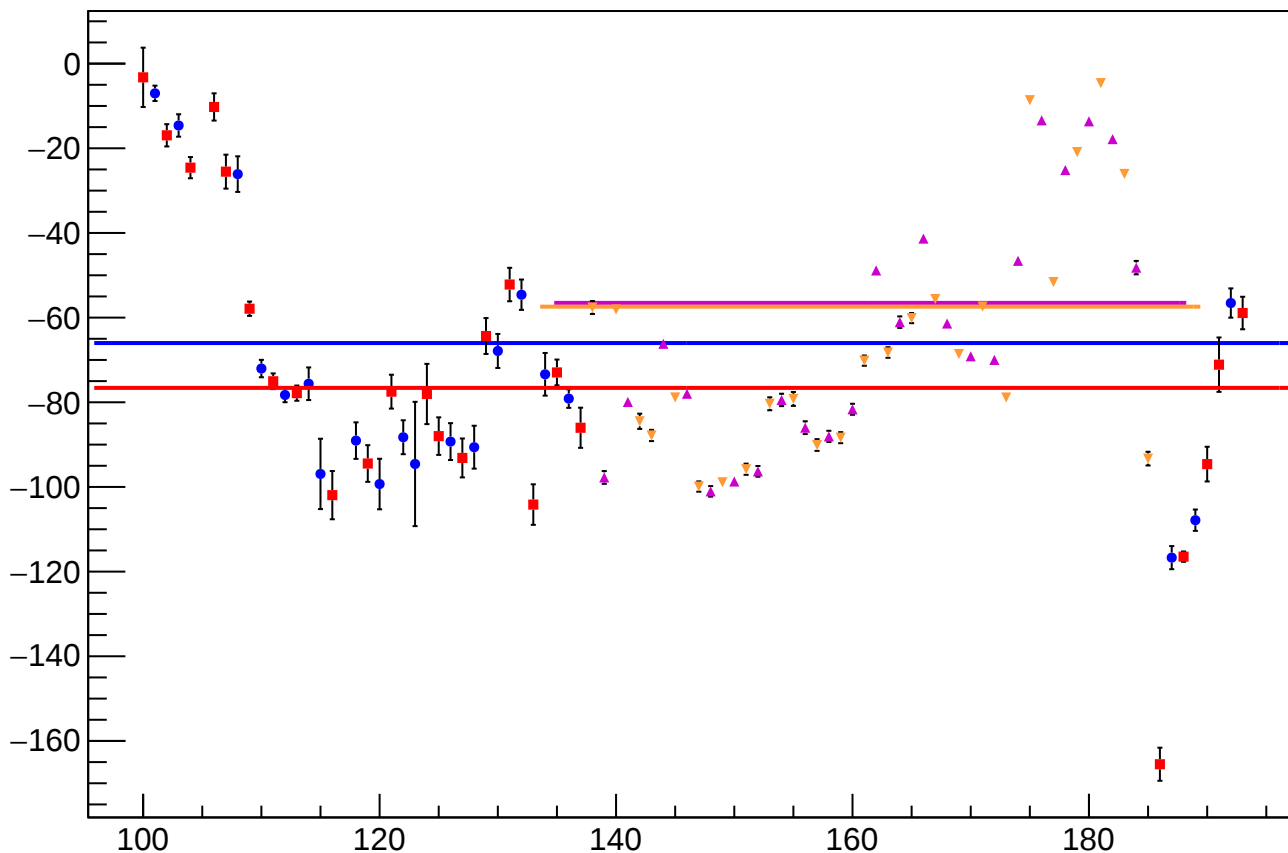
Right: -5.779 ± 0.297 χ^2/NDF : 3079.9/43

In: -1.119 ± 0.165 χ^2/NDF : 8383.0/42

Out: -1.249 ± 0.161 χ^2/NDF : 10595.3/48

All: -1.186 ± 0.115 χ^2/NDF : 18978.6/91

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.006+/-0.679 χ^2/NDF : 2423.8/19

Left Out: -57.413+/-0.223 χ^2/NDF :18604.1/24

Right Out: -76.598+/-0.587 χ^2/NDF : 3536.5/23

Left In: -56.519+/-0.227 χ^2/NDF :16352.6/22

Left: -56.974+/-0.159 χ^2/NDF : 34964.5/47

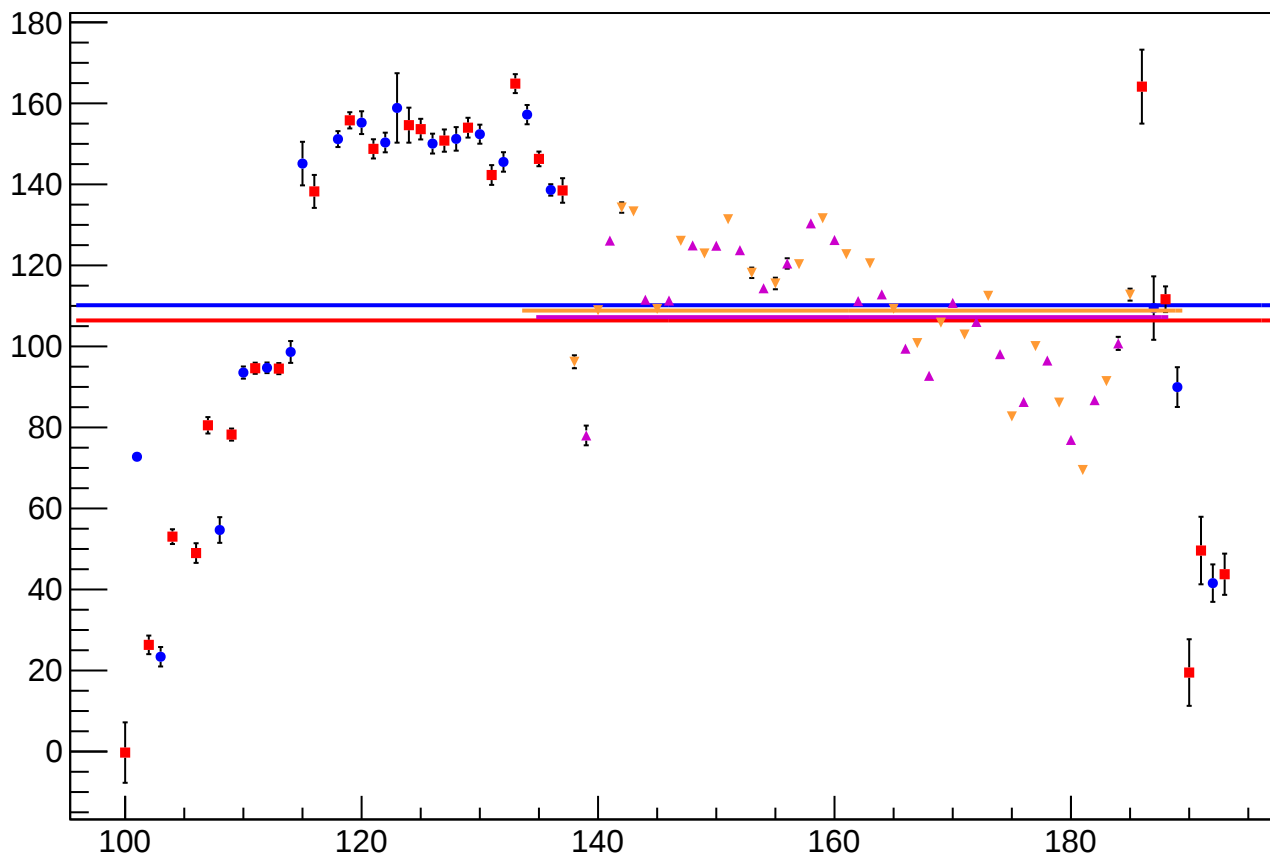
Right: -72.071+/-0.444 χ^2/NDF : 6099.5/43

In: -57.472+/-0.215 χ^2/NDF :18951.8/42

Out: -59.837+/-0.209 χ^2/NDF :23074.0/48

All: -58.692+/-0.150 χ^2/NDF : 42088.0/91

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 110.166 $\pm$ 0.484 χ^2 /NDF: 6104.5/19

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 106.412 $\pm$ 0.478 χ^2 /NDF: 7398.1/23

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

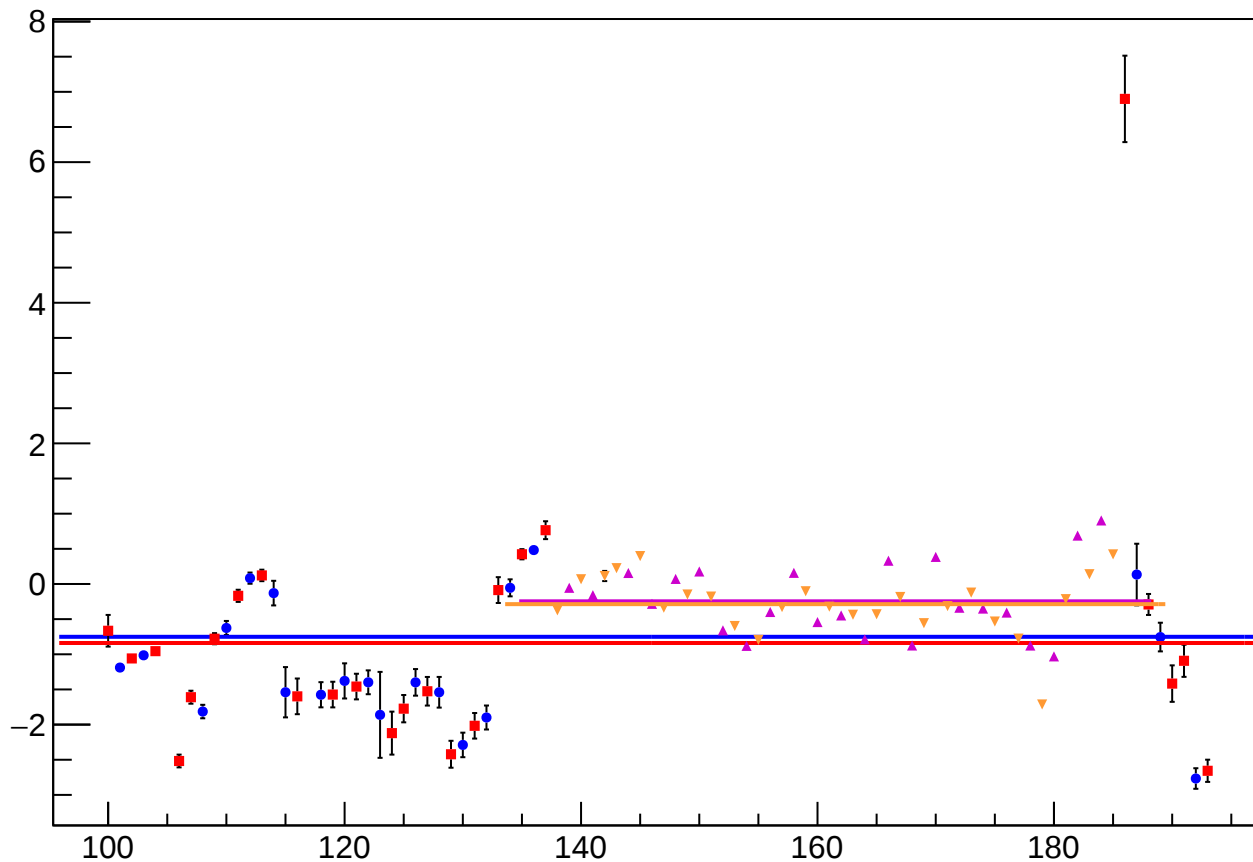
Right: 108.267 $\pm$ 0.340 χ^2 /NDF: 13533.0/43

In: 107.663 $\pm$ 0.187 χ^2 /NDF: 11701.2/42

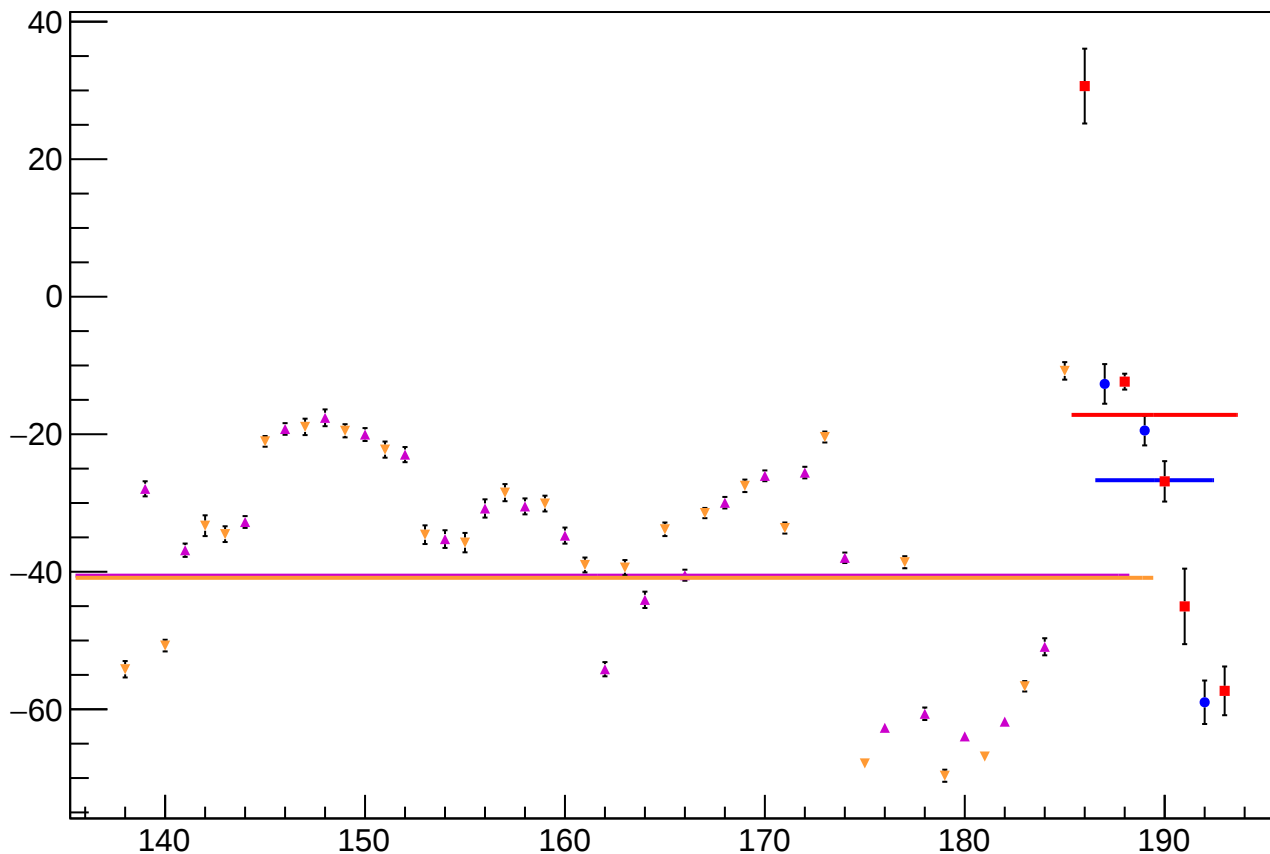
Out: 108.492 $\pm$ 0.182 χ^2 /NDF: 14820.5/48

All: 108.087 $\pm$ 0.130 χ^2 /NDF: 26531.8/91

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



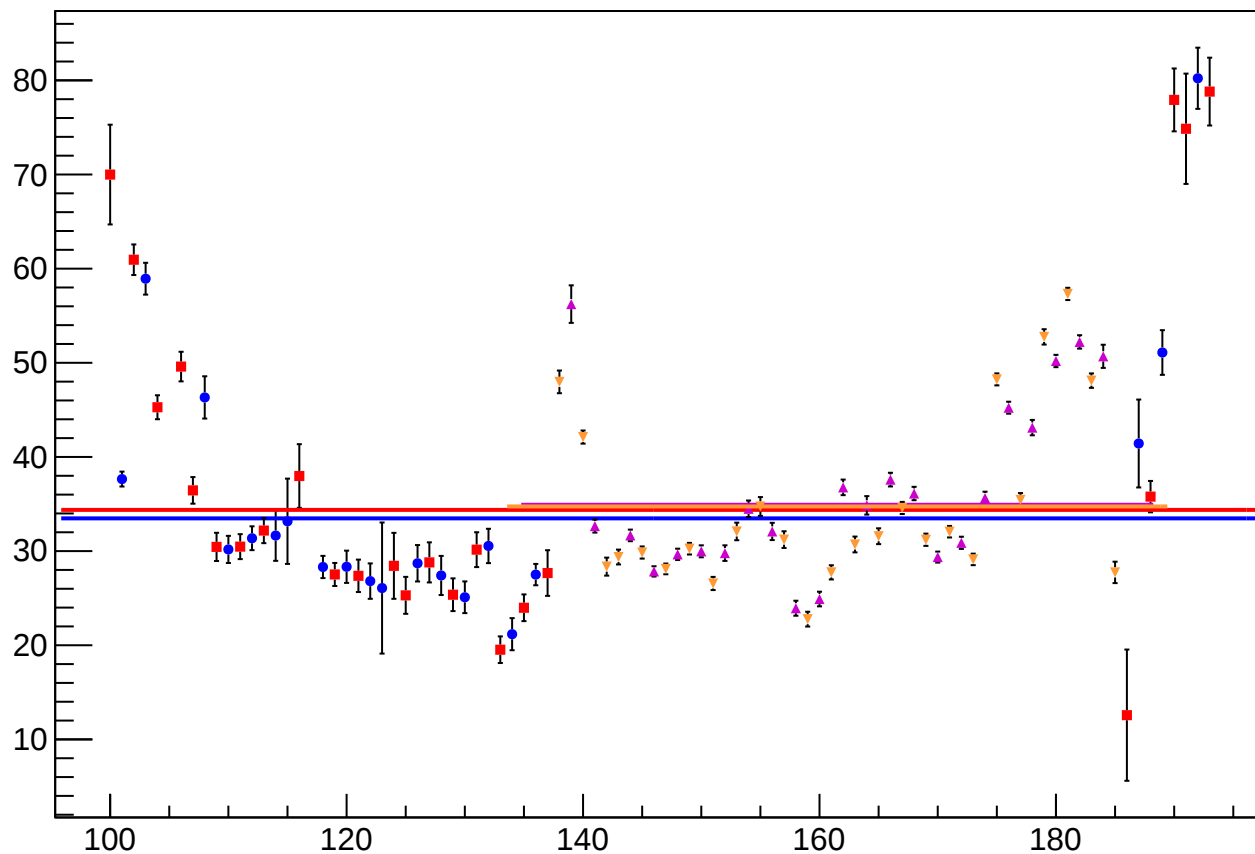
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.687 ± 1.518 $\chi^2/\text{NDF}: 139.1/2$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -17.184 ± 0.994 $\chi^2/\text{NDF}: 259.5/4$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -20.037 ± 0.832 $\chi^2/\text{NDF}: 426.0/7$
 In: -40.353 ± 0.188 $\chi^2/\text{NDF}: 7176.2/25$
 Out: -40.077 ± 0.183 $\chi^2/\text{NDF}: 9931.7/29$
 All: -40.211 ± 0.131 $\chi^2/\text{NDF}: 17108.9/55$

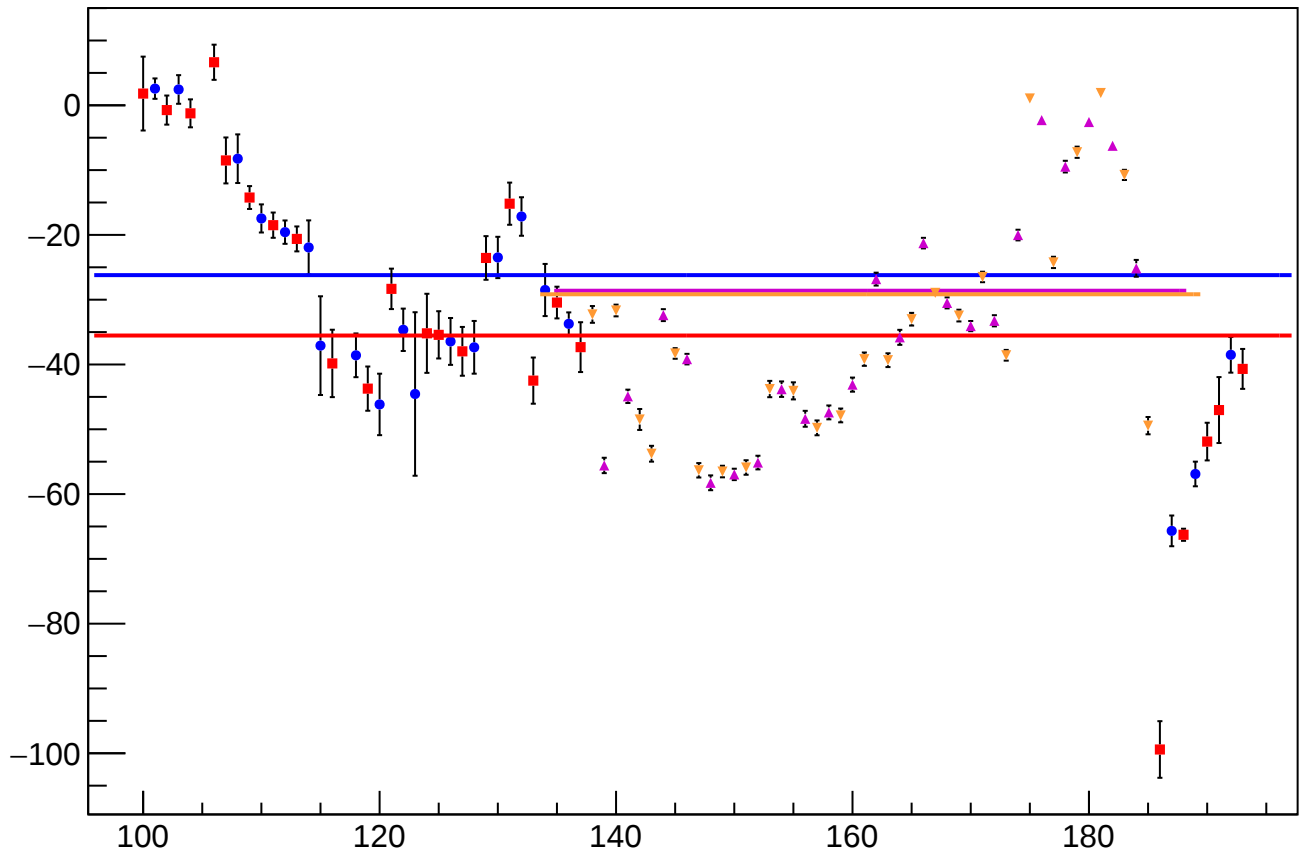
reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.476+/-0.368 χ^2/NDF : 724.3/19
 Left Out: 34.741+/-0.147 χ^2/NDF : 3693.2/24
 Right Out: 34.379+/-0.364 χ^2/NDF : 1164.3/23
 Left In: 34.922+/-0.152 χ^2/NDF : 2672.9/22

Left: 34.829+/-0.106 χ^2/NDF : 6366.8/47
 Right: 33.932+/-0.259 χ^2/NDF : 1891.6/43
 In: 34.712+/-0.140 χ^2/NDF : 3410.4/42
 Out: 34.690+/-0.137 χ^2/NDF : 4858.3/48
 All: 34.701+/-0.098 χ^2/NDF : 8268.7/91

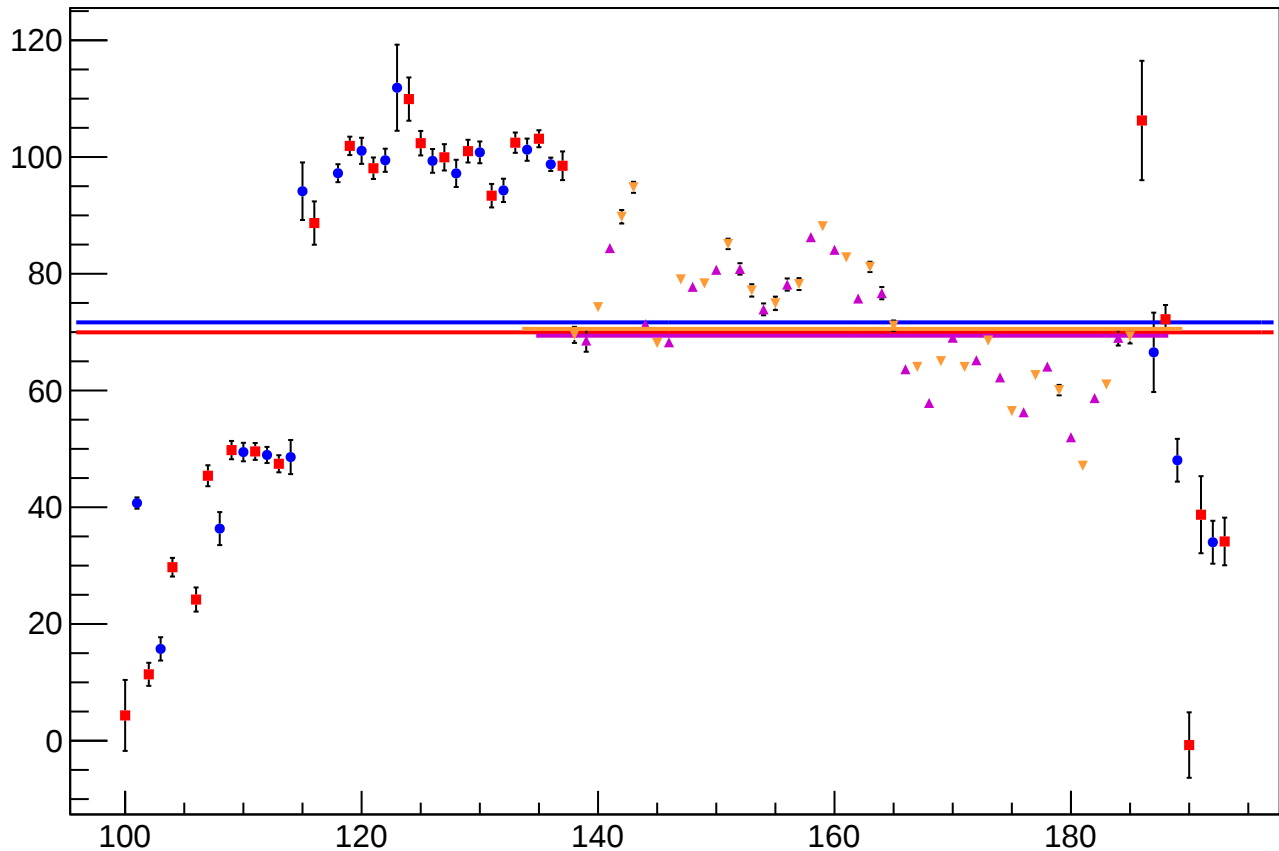
reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -26.208 ± 0.595 $\chi^2/\text{NDF}: 1199.9/19$
 Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$
 Right Out: -35.531 ± 0.508 $\chi^2/\text{NDF}: 2526.2/23$
 Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$
 Right: -31.597 ± 0.387 $\chi^2/\text{NDF}: 3867.9/43$
 In: -28.394 ± 0.181 $\chi^2/\text{NDF}: 10255.6/42$
 Out: -29.922 ± 0.176 $\chi^2/\text{NDF}: 12790.4/48$
 All: -29.181 ± 0.126 $\chi^2/\text{NDF}: 23082.8/91$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 71.672 $\pm$ 0.422 χ^2 /NDF: 4823.2/19

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 69.964 $\pm$ 0.422 χ^2 /NDF: 5770.0/23

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

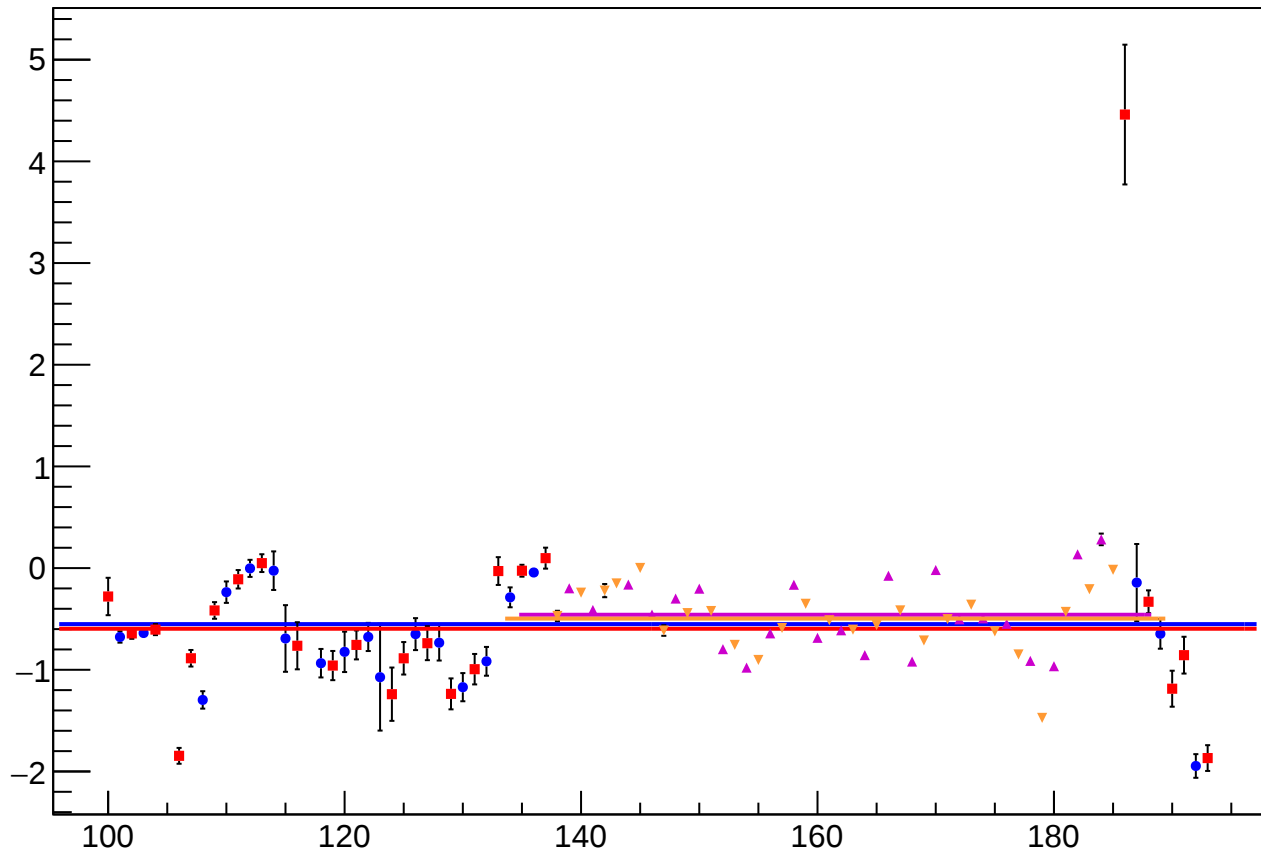
Right: 70.818 $\pm$ 0.299 χ^2 /NDF: 10601.4/43

In: 69.706 $\pm$ 0.158 χ^2 /NDF: 8170.2/42

Out: 70.482 $\pm$ 0.155 χ^2 /NDF: 10360.9/48

All: 70.102 $\pm$ 0.110 χ^2 /NDF: 18543.4/91

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.551 ± 0.022 χ^2/NDF : 453.1/19

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.596 ± 0.020 χ^2/NDF : 736.4/23

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

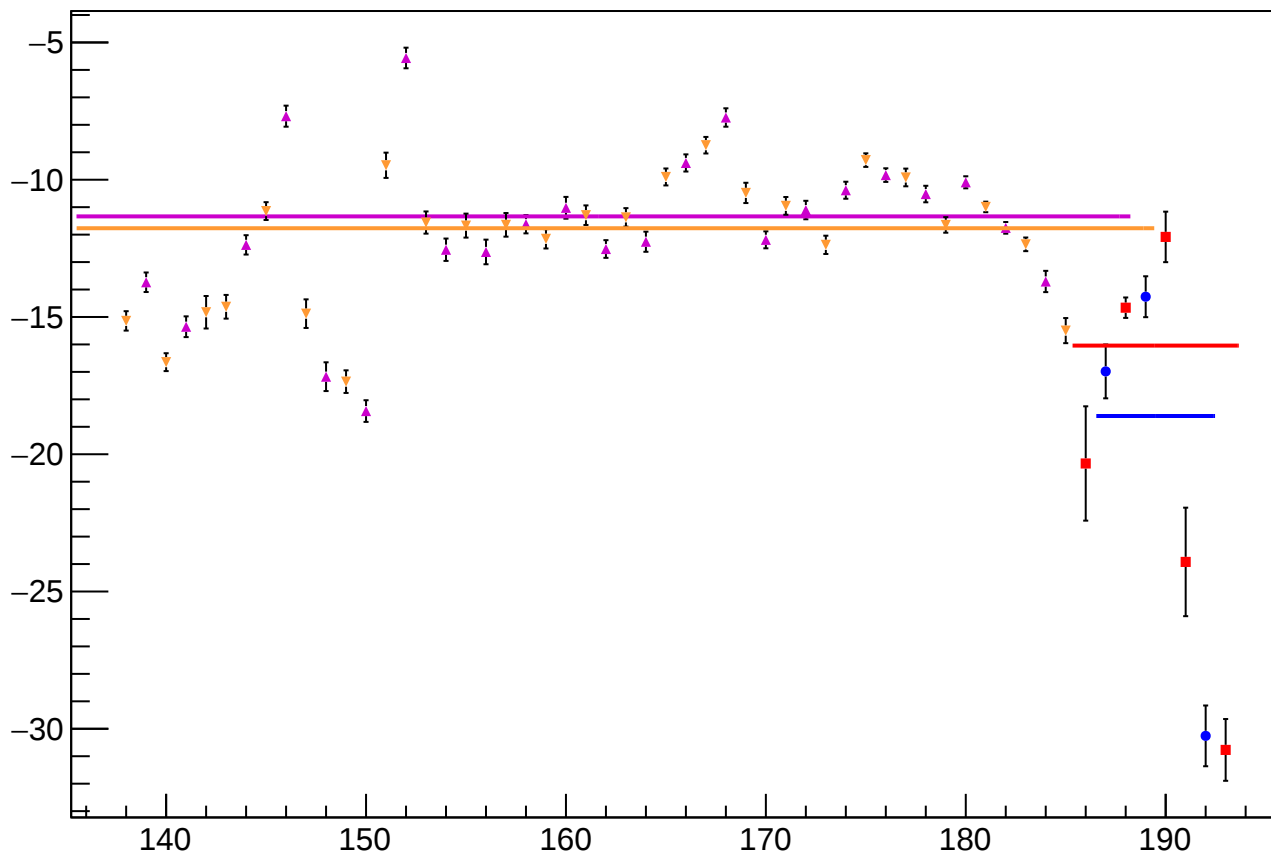
Right: -0.575 ± 0.015 χ^2/NDF : 1191.7/43

In: -0.469 ± 0.007 χ^2/NDF : 2427.5/42

Out: -0.509 ± 0.007 χ^2/NDF : 2206.5/48

All: -0.489 ± 0.005 χ^2/NDF : 4649.0/91

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.607 ± 0.523 χ^2/NDF : 147.6/2
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -16.042 ± 0.321 χ^2/NDF : 223.8/4
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47

Right: -16.746 ± 0.274 χ^2/NDF : 388.9/7

In: -11.457 ± 0.067 χ^2/NDF : 1607.1/25

Out: -11.943 ± 0.065 χ^2/NDF : 1414.2/29

All: -11.708 ± 0.047 χ^2/NDF : 3048.1/55

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.480 ± 0.148 χ^2/NDF : 1533.8/19

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -34.620 ± 0.142 χ^2/NDF : 1886.4/23

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

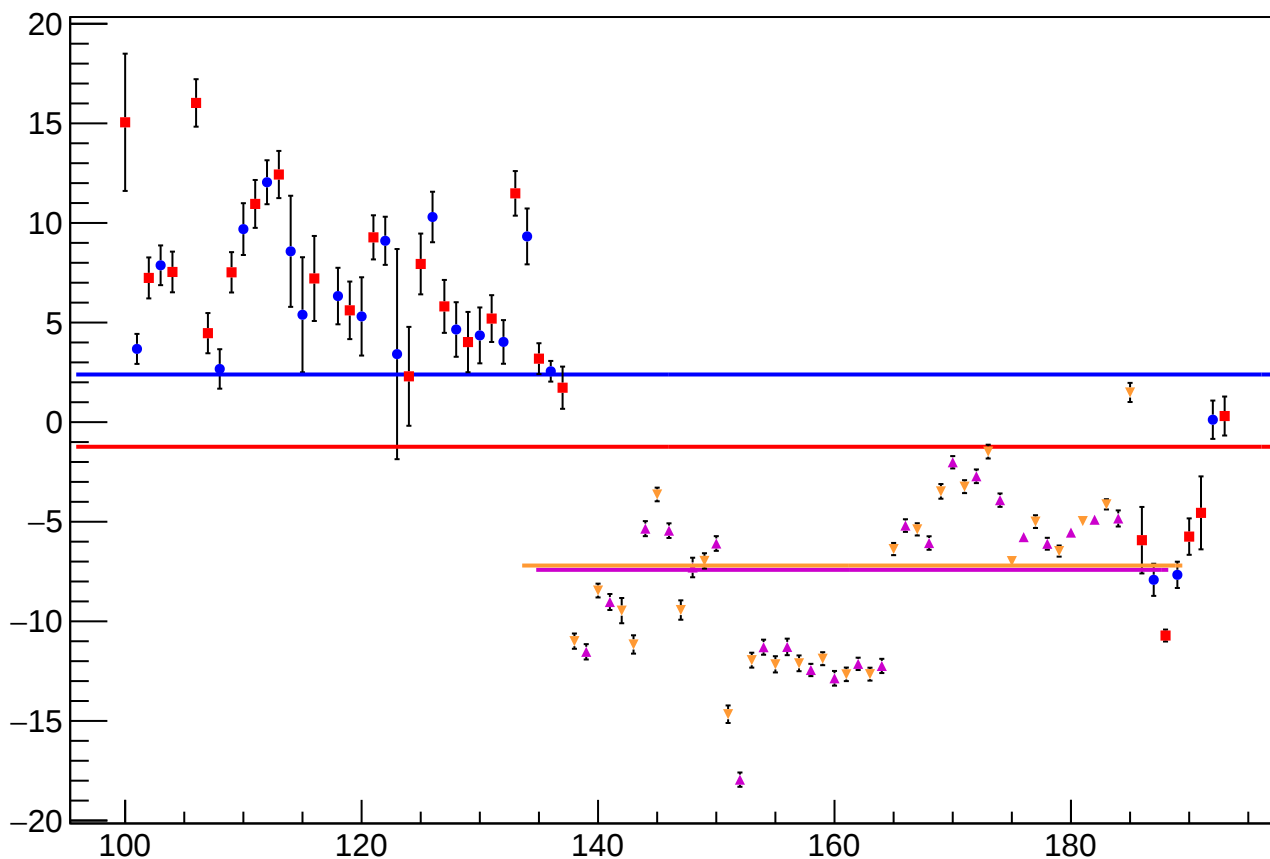
Right: -34.552 ± 0.102 χ^2/NDF : 3420.7/43

In: -30.664 ± 0.052 χ^2/NDF : 3523.9/42

Out: -30.764 ± 0.050 χ^2/NDF : 3459.5/48

All: -30.716 ± 0.036 χ^2/NDF : 6985.2/91

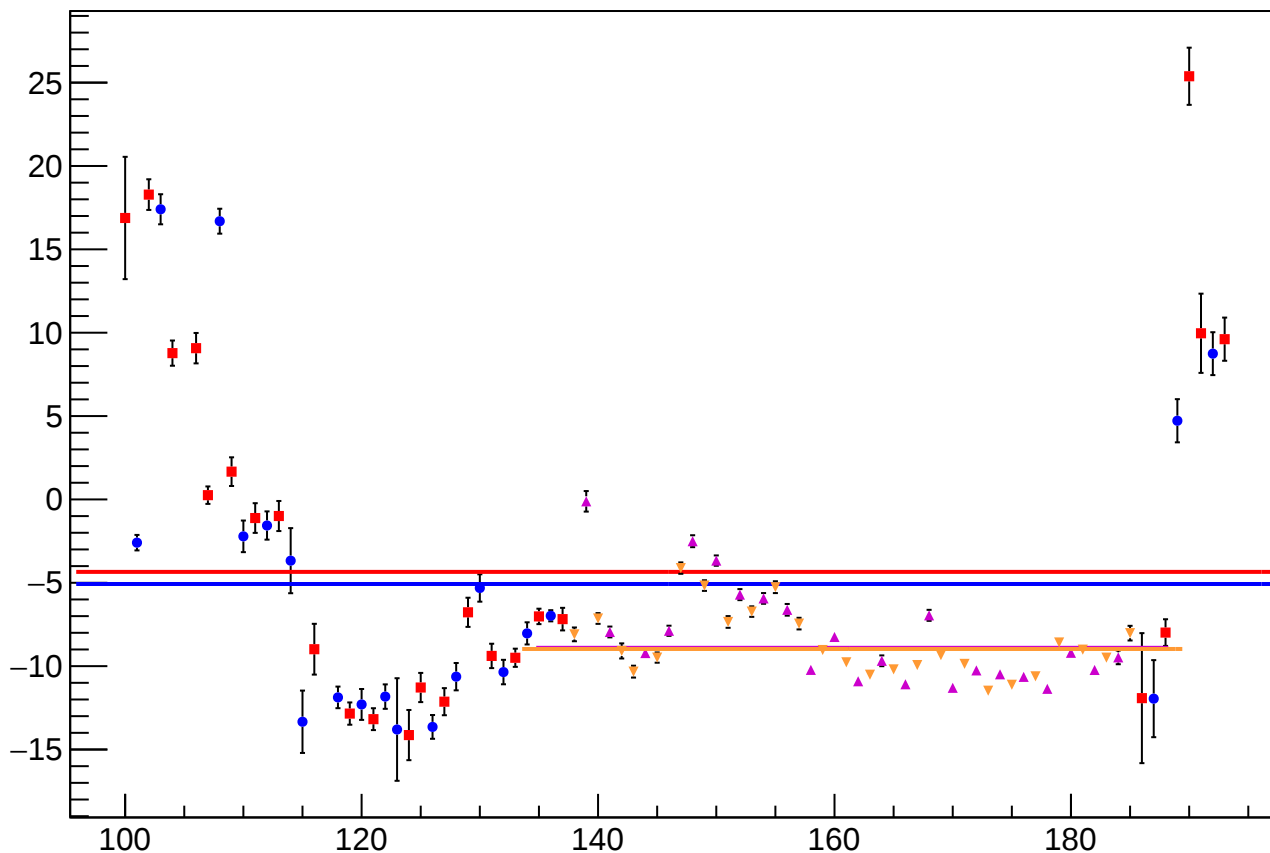
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.392 ± 0.232 $\chi^2/\text{NDF}: 659.7/19$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.236 ± 0.192 $\chi^2/\text{NDF}: 2157.0/23$
 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: 0.235 ± 0.148 $\chi^2/\text{NDF}: 2962.0/43$
 In: -6.643 ± 0.065 $\chi^2/\text{NDF}: 5427.6/42$
 Out: -6.552 ± 0.063 $\chi^2/\text{NDF}: 6057.5/48$
 All: -6.596 ± 0.045 $\chi^2/\text{NDF}: 11486.1/91$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.073 ± 0.168 $\chi^2/\text{NDF}: 2283.3/19$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -4.346 ± 0.166 $\chi^2/\text{NDF}: 2531.6/23$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

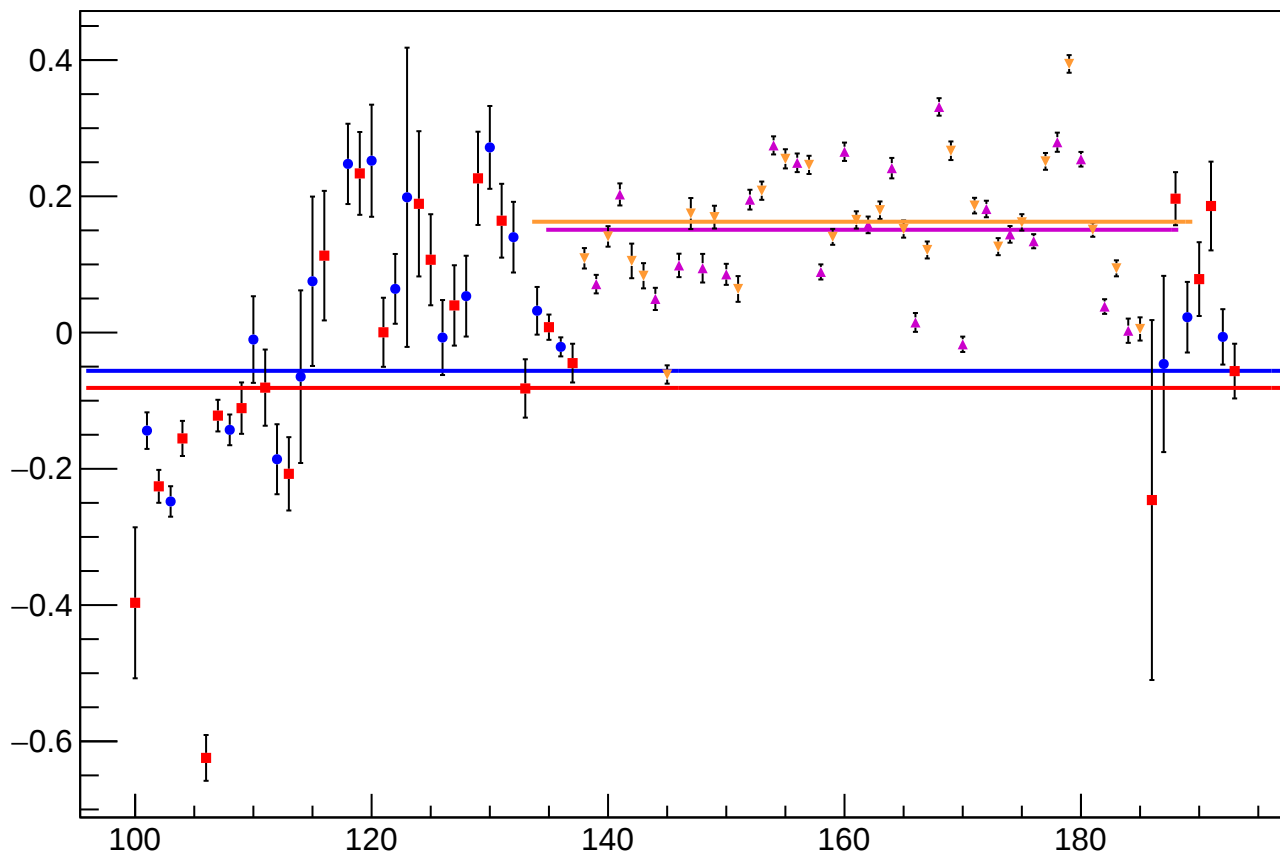
Right: -4.707 ± 0.118 $\chi^2/\text{NDF}: 4824.4/43$

In: -8.445 ± 0.058 $\chi^2/\text{NDF}: 4276.2/42$

Out: -8.436 ± 0.057 $\chi^2/\text{NDF}: 4092.9/48$

All: -8.440 ± 0.040 $\chi^2/\text{NDF}: 8369.1/91$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.056 ± 0.008 χ^2/NDF : 218.6/19

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.081 ± 0.008 χ^2/NDF : 517.1/23

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

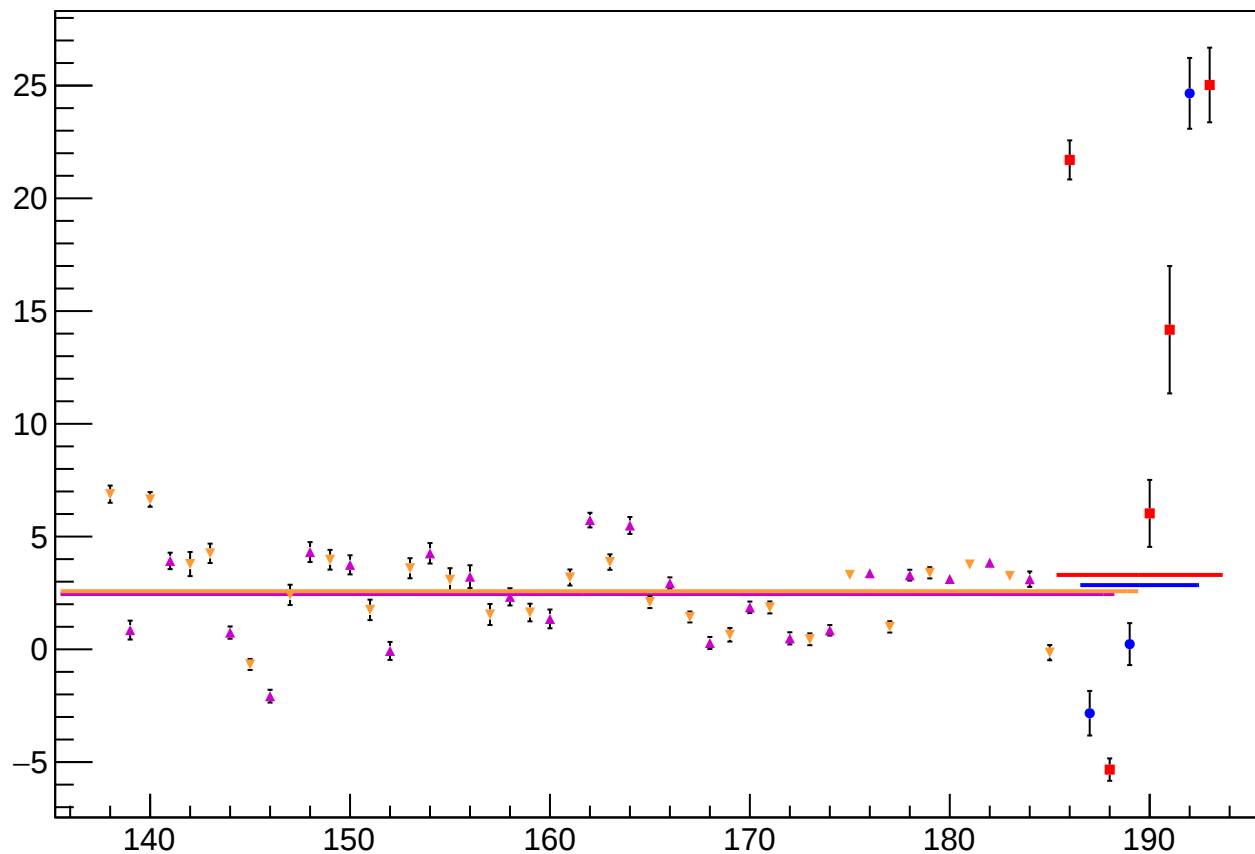
Right: -0.069 ± 0.006 χ^2/NDF : 740.6/43

In: 0.129 ± 0.003 χ^2/NDF : 2088.3/42

Out: 0.137 ± 0.003 χ^2/NDF : 2381.0/48

All: 0.133 ± 0.002 χ^2/NDF : 4473.6/91

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.848 $\pm$ 0.622 χ^2 /NDF: 233.7/2

Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24

Right Out: 3.299 $\pm$ 0.397 χ^2 /NDF: 944.3/4

Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47

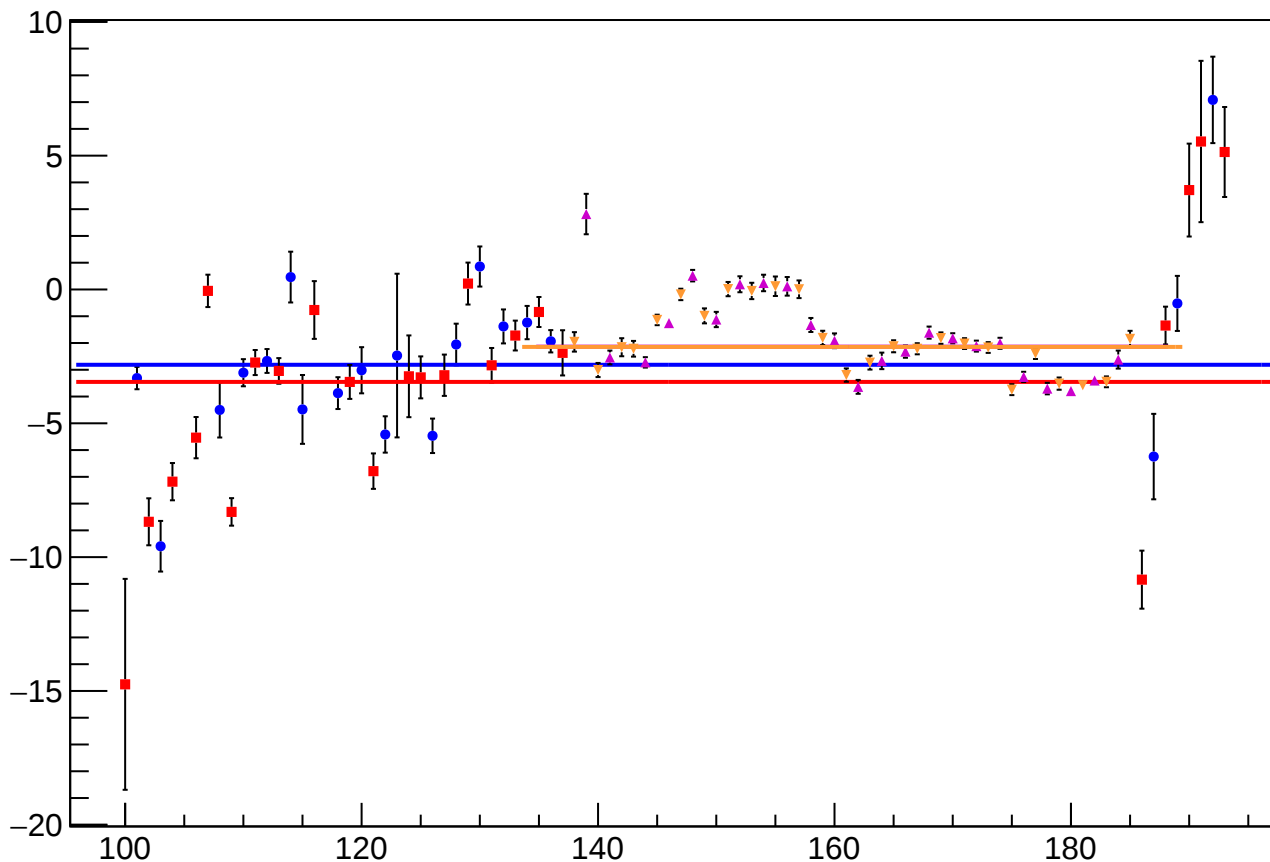
Right: 3.168 $\pm$ 0.335 χ^2 /NDF: 1178.4/7

In: 2.456 $\pm$ 0.059 χ^2 /NDF:1105.4/25

Out: 2.592 $\pm$ 0.058 χ^2 /NDF:1815.0/29

All: 2.525 $\pm$ 0.041 χ^2 /NDF: 2923.1/55

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.813 ± 0.152 $\chi^2/\text{NDF}: 192.6/19$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -3.453 ± 0.148 $\chi^2/\text{NDF}: 398.7/23$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

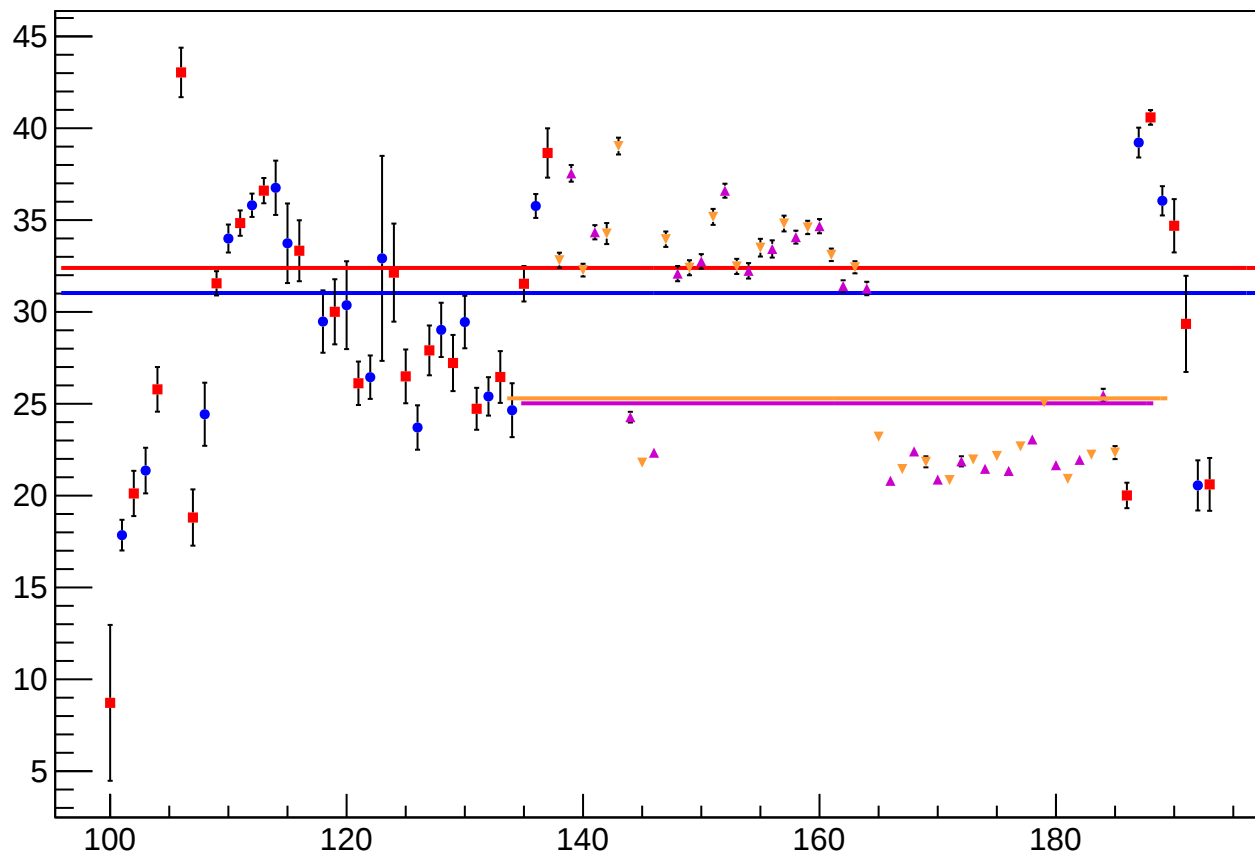
Right: -3.141 ± 0.106 $\chi^2/\text{NDF}: 600.3/43$

In: -2.199 ± 0.046 $\chi^2/\text{NDF}: 901.8/42$

Out: -2.268 ± 0.045 $\chi^2/\text{NDF}: 1042.4/48$

All: -2.234 ± 0.032 $\chi^2/\text{NDF}: 1945.4/91$

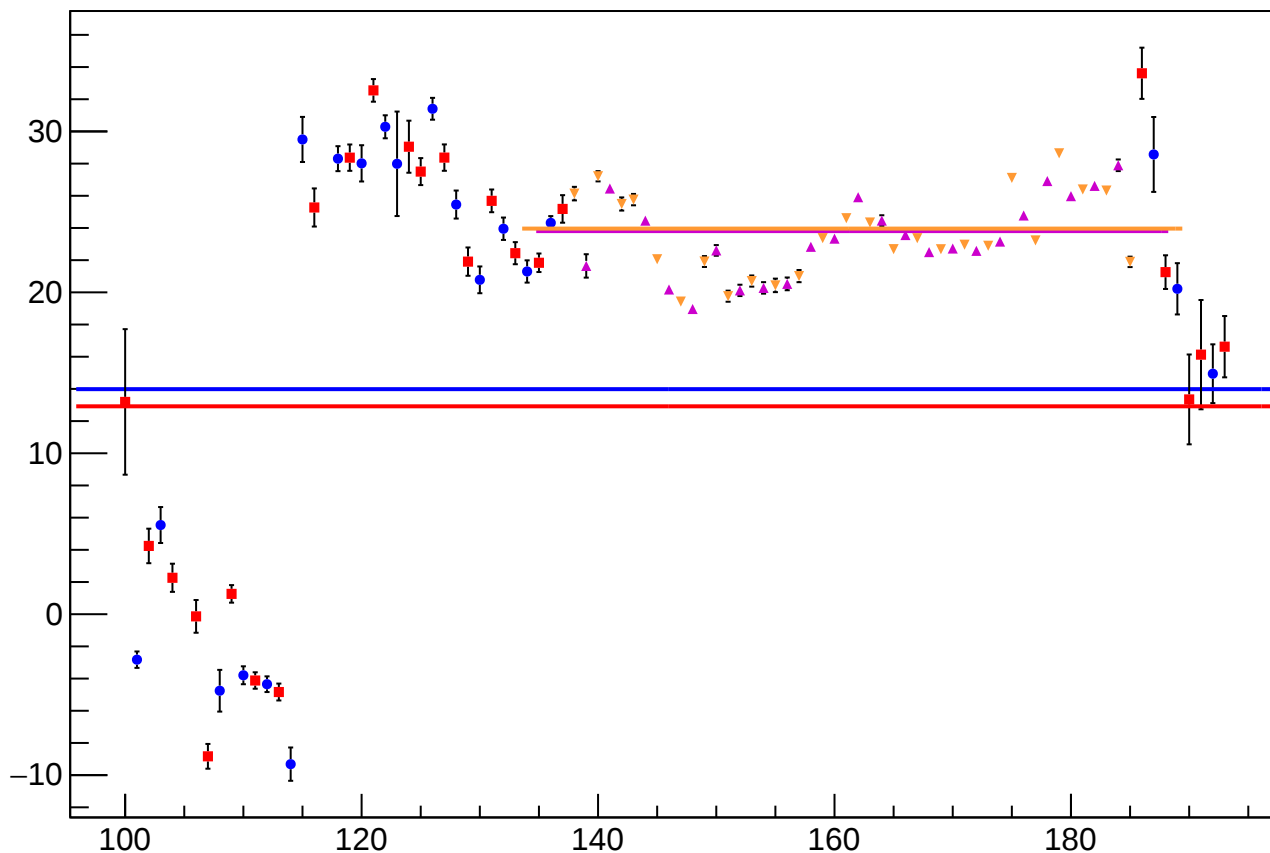
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 31.030 ± 0.239 $\chi^2/\text{NDF}: 769.7/19$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 32.394 ± 0.203 $\chi^2/\text{NDF}: 1316.5/23$
 Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$
 Right: 31.820 ± 0.155 $\chi^2/\text{NDF}: 2105.1/43$
 In: 25.378 ± 0.058 $\chi^2/\text{NDF}: 8976.7/42$
 Out: 25.844 ± 0.057 $\chi^2/\text{NDF}: 10712.9/48$
 All: 25.616 ± 0.040 $\chi^2/\text{NDF}: 19722.8/91$

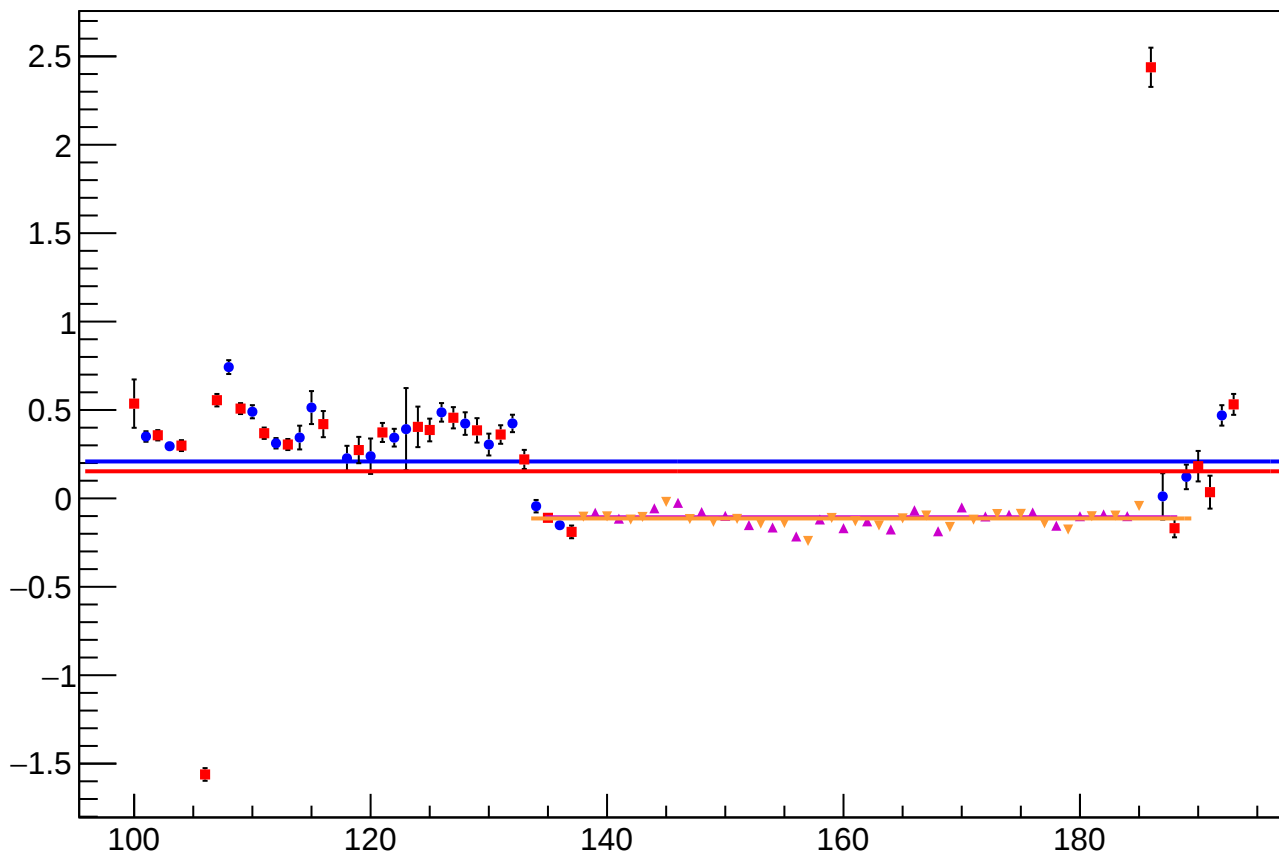
reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.985 $\pm$ 0.171 χ^2 /NDF: 7330.5/19
 Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24
 Right Out: 12.918 $\pm$ 0.169 χ^2 /NDF: 7199.0/23
 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: 13.447 $\pm$ 0.120 χ^2 /NDF: 14549.1/43
 In: 22.911 $\pm$ 0.052 χ^2 /NDF:12097.4/42
 Out: 22.973 $\pm$ 0.051 χ^2 /NDF:12988.9/48
 All: 22.942 $\pm$ 0.036 χ^2 /NDF: 25087.0/91

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.209 ± 0.009 $\chi^2/\text{NDF}: 870.8/19$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.153 ± 0.009 $\chi^2/\text{NDF}: 3521.6/23$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

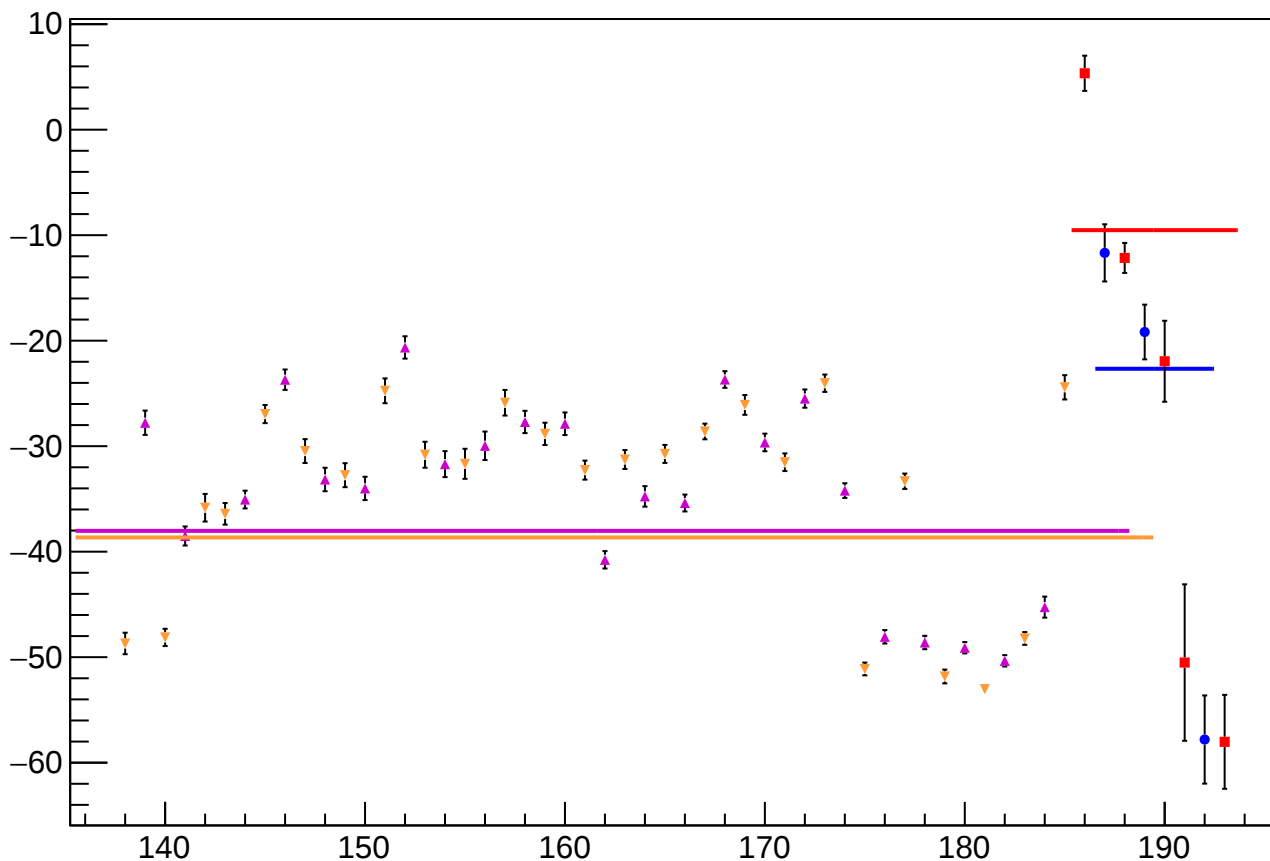
Right: 0.180 ± 0.006 $\chi^2/\text{NDF}: 4411.5/43$

In: -0.085 ± 0.002 $\chi^2/\text{NDF}: 2299.5/42$

Out: -0.095 ± 0.002 $\chi^2/\text{NDF}: 4657.3/48$

All: -0.090 ± 0.002 $\chi^2/\text{NDF}: 6964.9/91$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

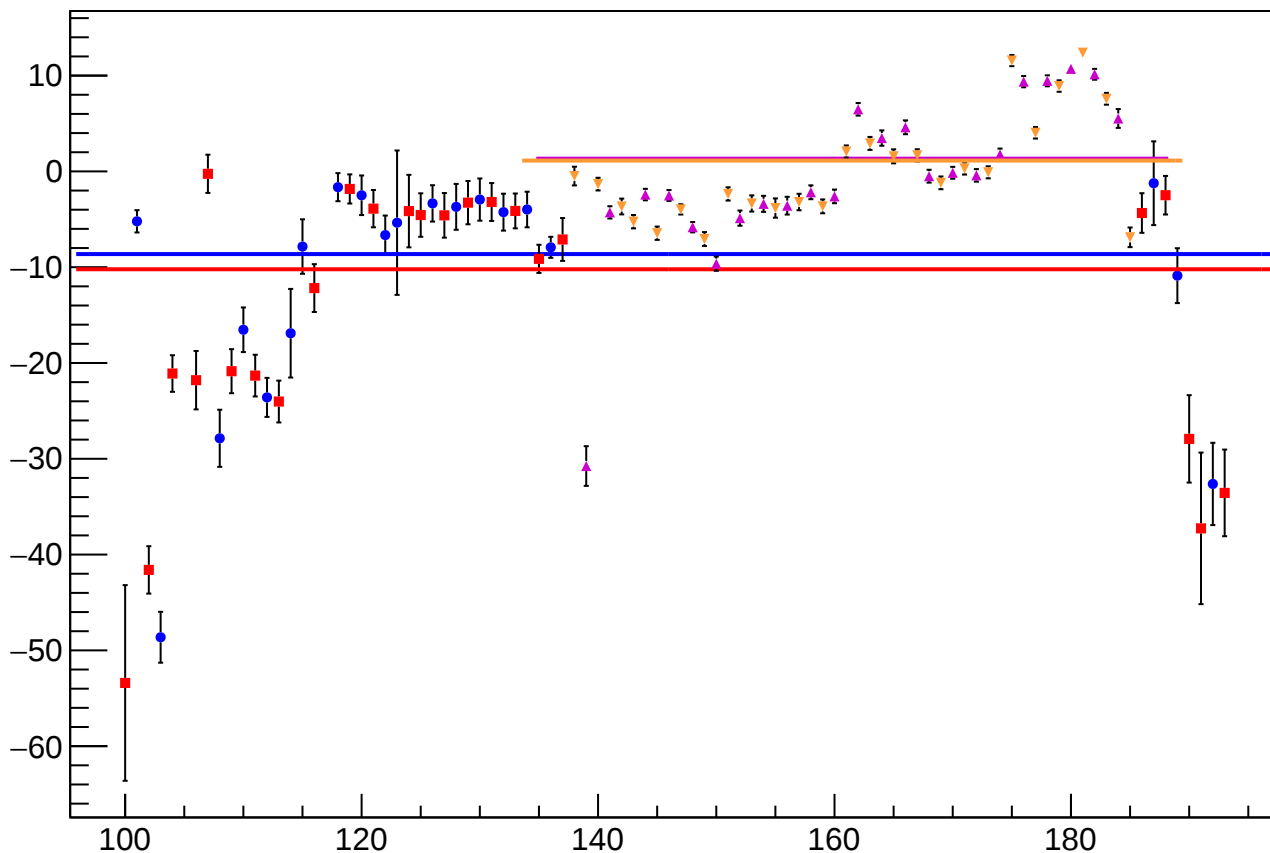


Right In: -22.662 ± 1.710 $\chi^2/\text{NDF}: 89.0/2$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -9.525 ± 1.005 $\chi^2/\text{NDF}: 242.5/4$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$
 Right: -12.897 ± 0.866 $\chi^2/\text{NDF}: 375.3/7$
 In: -37.871 ± 0.172 $\chi^2/\text{NDF}: 3260.8/25$
 Out: -37.848 ± 0.167 $\chi^2/\text{NDF}: 5136.8/29$

All: -37.859 ± 0.120 $\chi^2/\text{NDF}: 8397.6/55$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.632 ± 0.455 χ^2/NDF : 443.5/19

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -10.217 ± 0.460 χ^2/NDF : 506.2/23

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

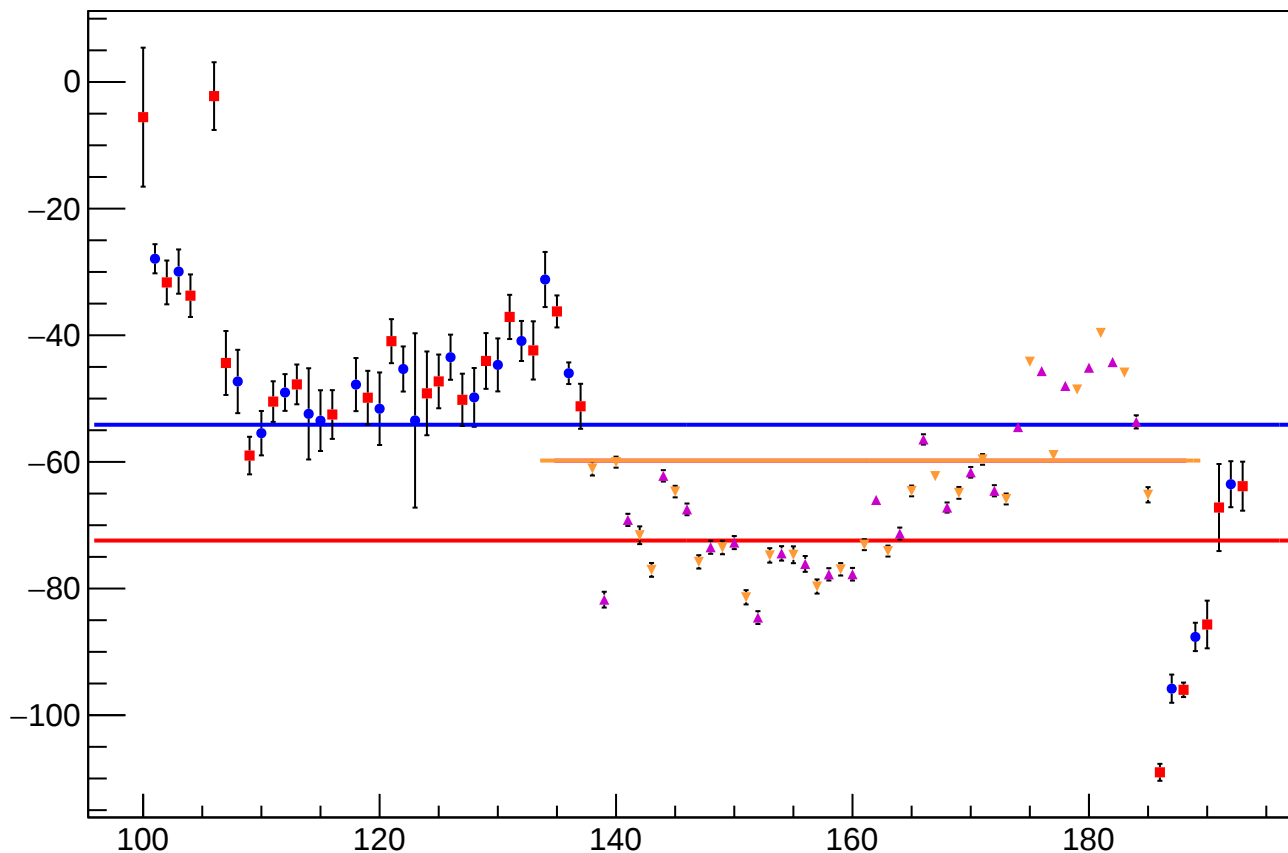
Right: -9.417 ± 0.324 χ^2/NDF : 955.6/43

In: 0.471 ± 0.134 χ^2/NDF : 2928.7/42

Out: 0.217 ± 0.130 χ^2/NDF : 2865.4/48

All: 0.341 ± 0.093 χ^2/NDF : 5796.0/91

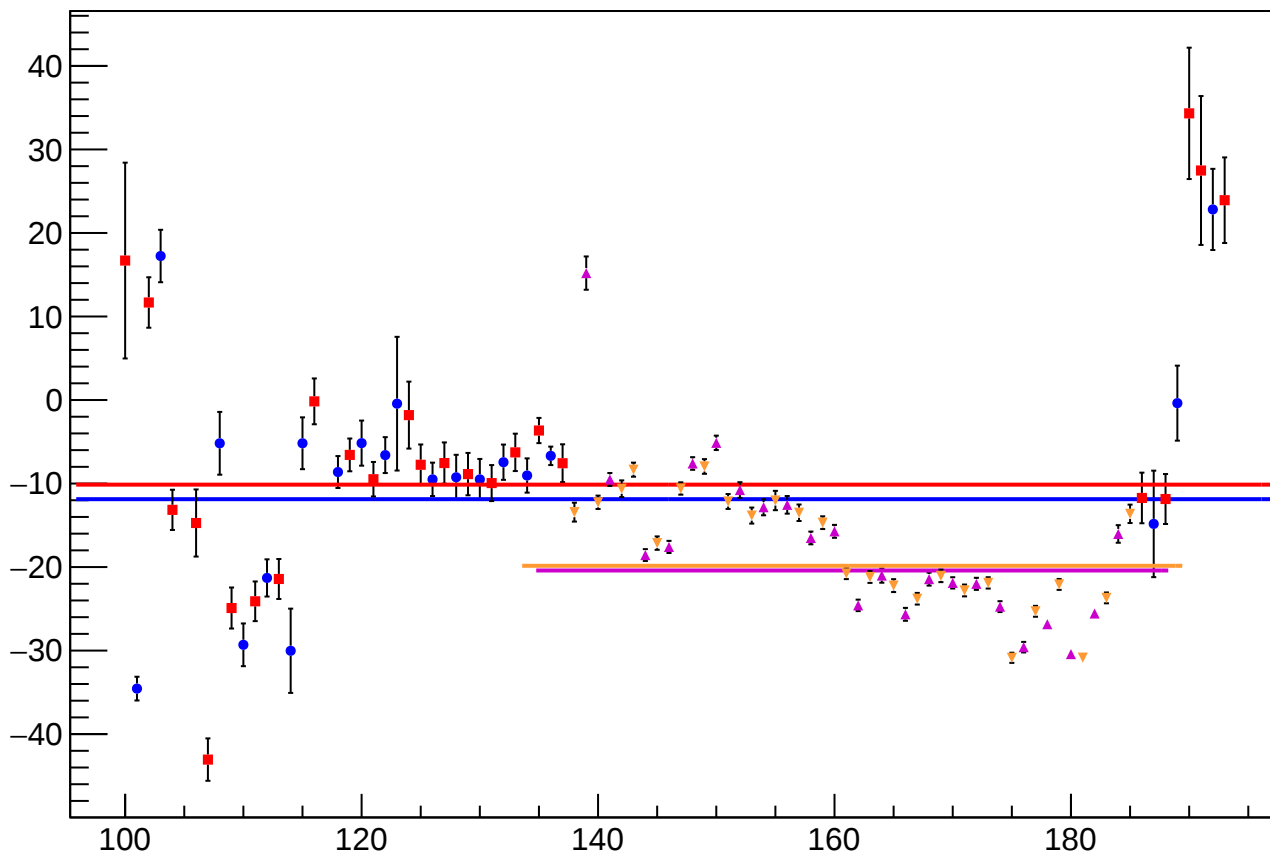
reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.131 ± 0.726 χ^2/NDF : 855.1/19
 Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24
 Right Out: -72.421 ± 0.597 χ^2/NDF : 2470.3/23
 Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47
 Right: -65.037 ± 0.461 χ^2/NDF : 3704.3/43
 In: -59.496 ± 0.169 χ^2/NDF : 6130.4/42
 Out: -60.737 ± 0.164 χ^2/NDF : 8722.1/48
 All: -60.135 ± 0.117 χ^2/NDF : 14880.4/91

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -11.873 ± 0.516 χ^2/NDF : 532.3/19

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -10.133 ± 0.532 χ^2/NDF : 461.8/23

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

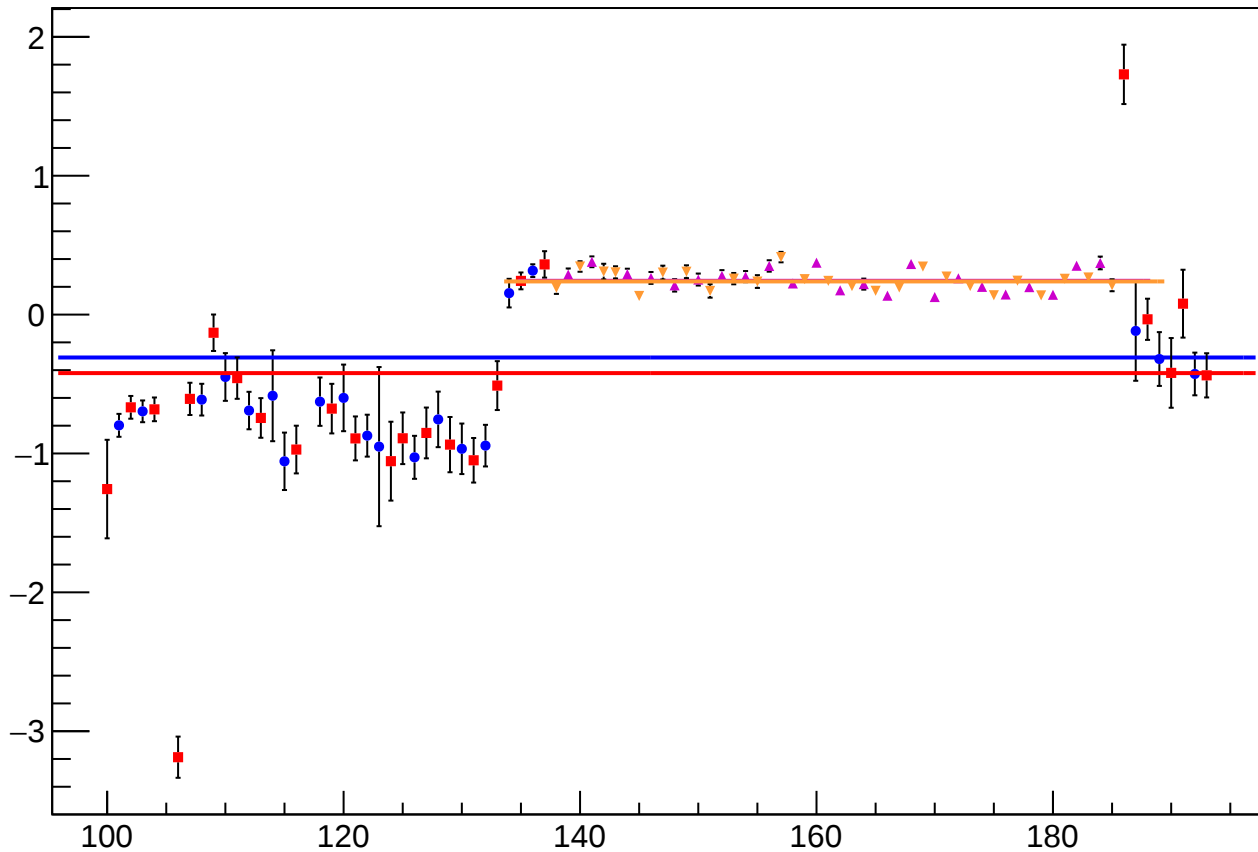
Right: -11.029 ± 0.370 χ^2/NDF : 999.7/43

In: -19.689 ± 0.150 χ^2/NDF : 3085.3/42

Out: -19.106 ± 0.147 χ^2/NDF : 2701.6/48

All: -19.391 ± 0.105 χ^2/NDF : 5794.6/91

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.309 ± 0.027 χ^2/NDF : 372.6/19

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.421 ± 0.027 χ^2/NDF : 744.3/23

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

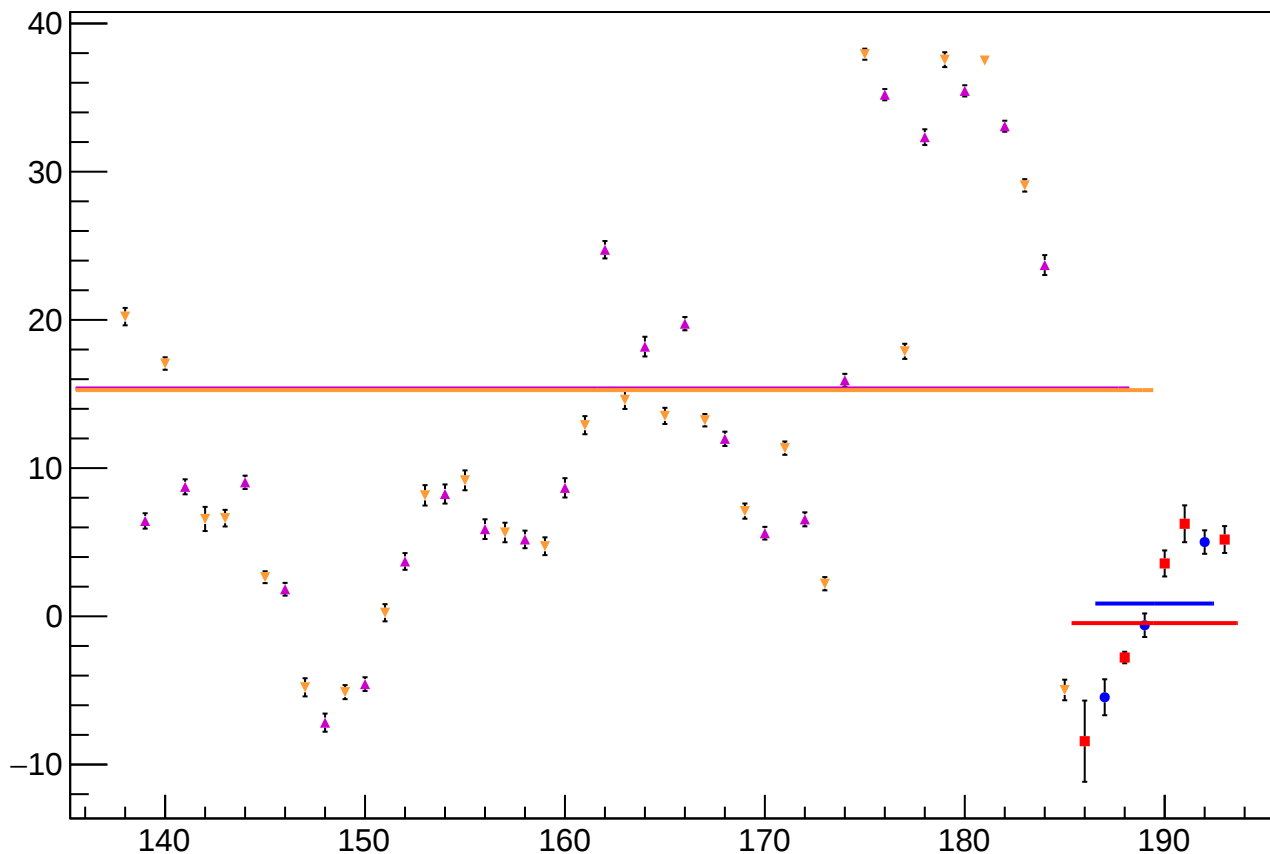
Right: -0.364 ± 0.019 χ^2/NDF : 1125.6/43

In: 0.206 ± 0.007 χ^2/NDF : 906.5/42

Out: 0.197 ± 0.007 χ^2/NDF : 1392.9/48

All: 0.202 ± 0.005 χ^2/NDF : 2300.2/91

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.862 $\pm$ 0.510 χ^2 /NDF: 57.9/2

Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24

Right Out: -0.458 $\pm$ 0.318 χ^2 /NDF: 132.9/4

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

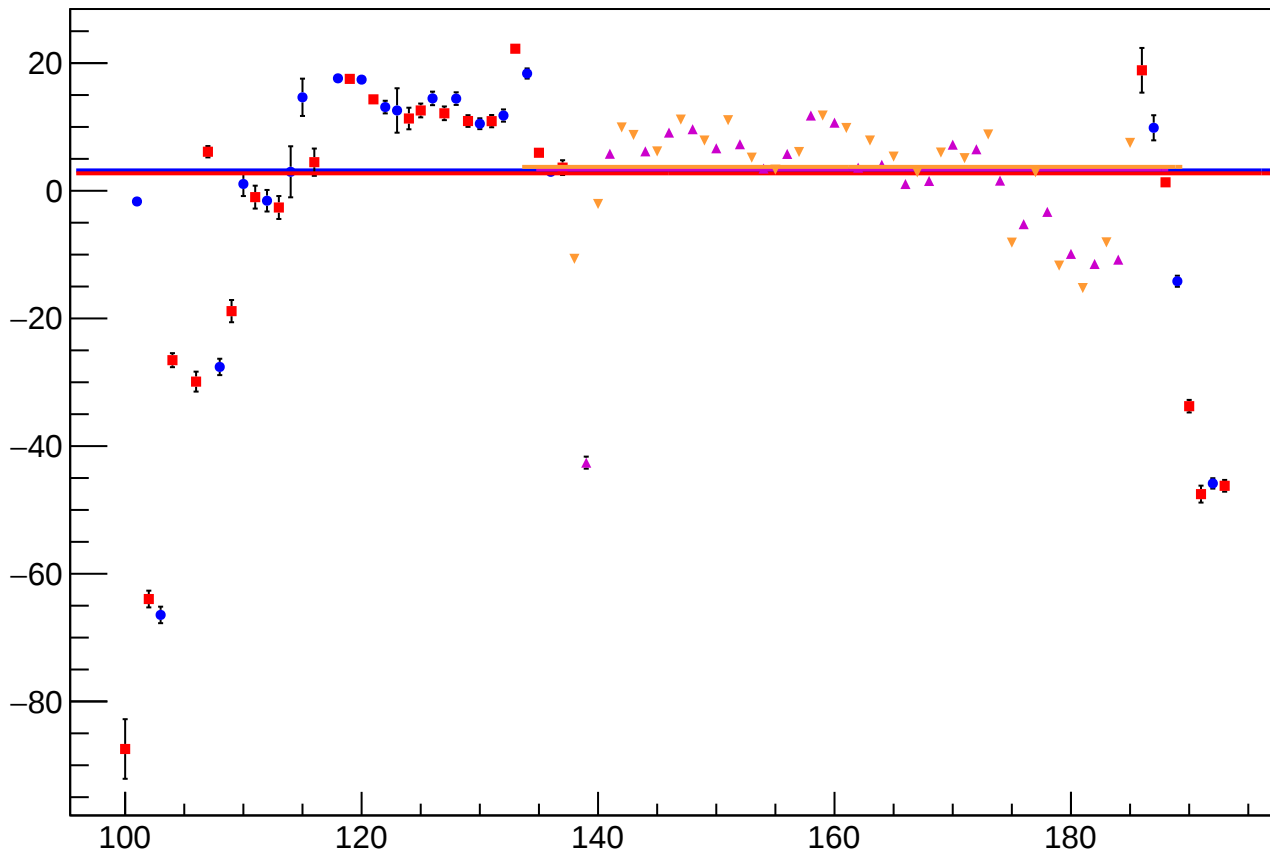
Right: -0.089 $\pm$ 0.270 χ^2 /NDF: 195.6/7

In: 14.810 $\pm$ 0.101 χ^2 /NDF:17106.4/25

Out: 13.833 $\pm$ 0.096 χ^2 /NDF:21533.2/29

All: 14.297 $\pm$ 0.069 χ^2 /NDF: 38689.0/55

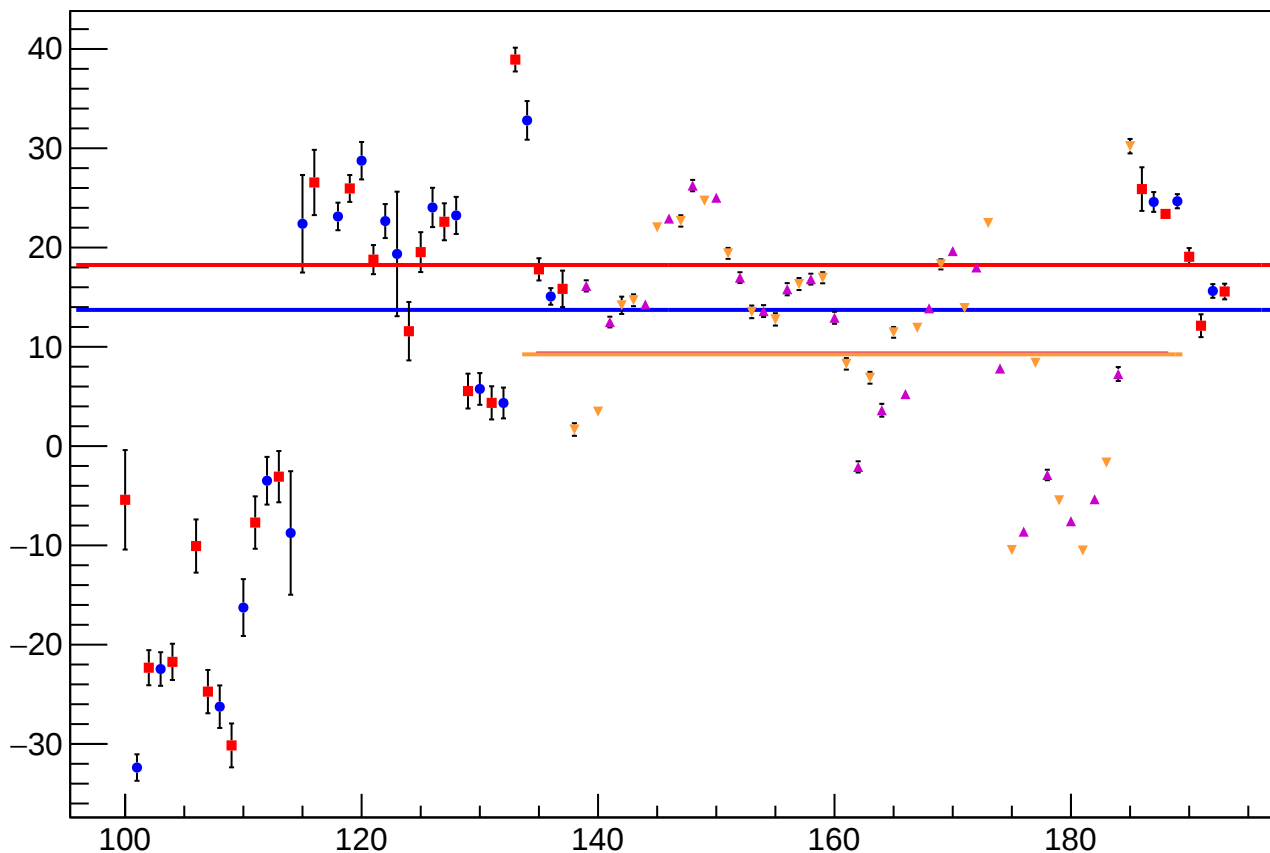
reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.190 $\pm$ 0.204 χ^2 /NDF: 9777.5/19
 Left Out: 3.746 $\pm$ 0.079 χ^2 /NDF:9247.4/24
 Right Out: 2.734 $\pm$ 0.189 χ^2 /NDF: 13113.8/23
 Left In: 3.365 $\pm$ 0.081 χ^2 /NDF:8527.0/22

Left: 3.561 $\pm$ 0.057 χ^2 /NDF: 17785.7/47
 Right: 2.945 $\pm$ 0.139 χ^2 /NDF: 22894.0/43
 In: 3.341 $\pm$ 0.075 χ^2 /NDF:18305.2/42
 Out: 3.597 $\pm$ 0.073 χ^2 /NDF:22385.5/48
 All: 3.474 $\pm$ 0.052 χ^2 /NDF: 40696.6/91

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.720 $\pm$ 0.305 χ^2 /NDF: 2886.7/19

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.243 $\pm$ 0.226 χ^2 /NDF: 2961.9/23

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

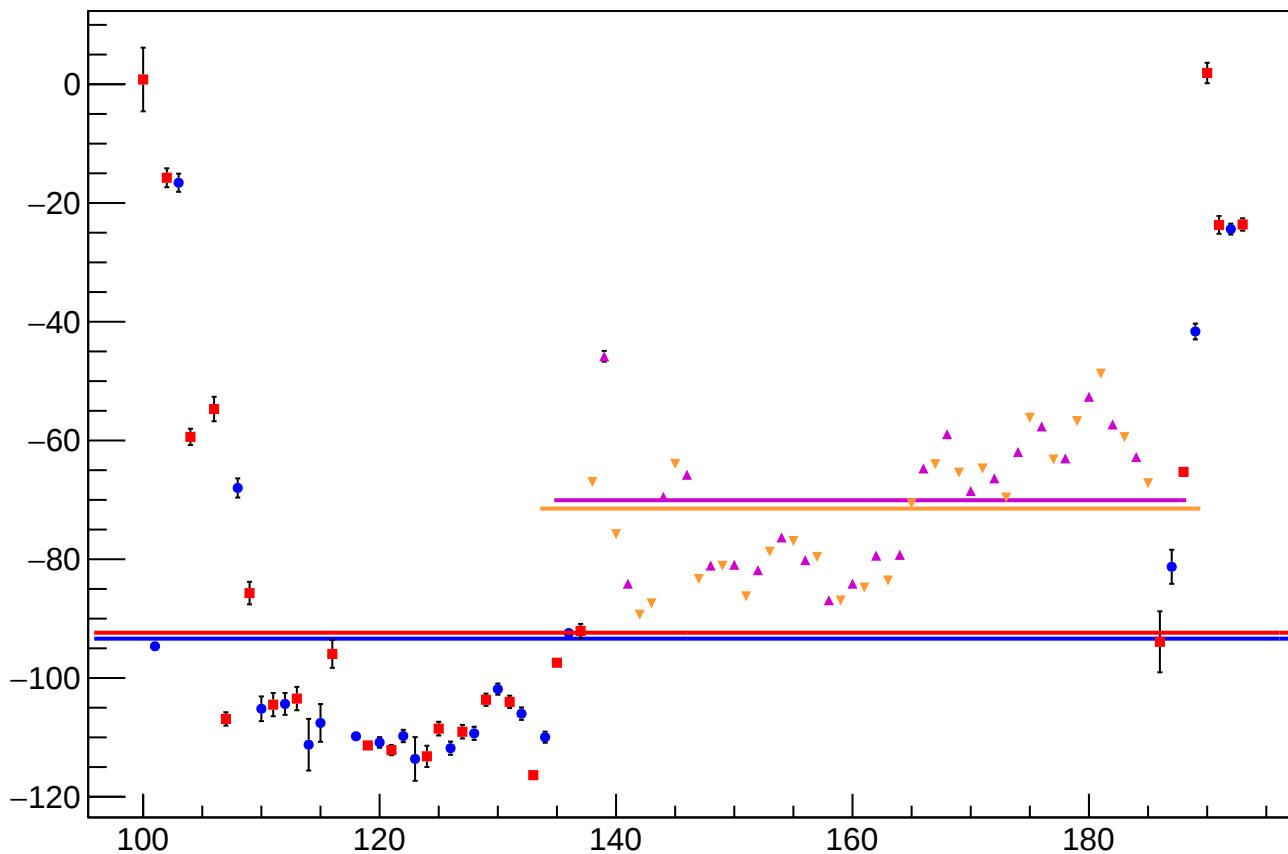
Right: 16.643 $\pm$ 0.181 χ^2 /NDF: 5990.9/43

In: 9.775 $\pm$ 0.097 χ^2 /NDF:15041.7/42

Out: 10.743 $\pm$ 0.092 χ^2 /NDF:17922.3/48

All: 10.285 $\pm$ 0.067 χ^2 /NDF: 33016.3/91

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.374 ± 0.237 $\chi^2/\text{NDF}: 12397.9/19$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -92.372 ± 0.226 $\chi^2/\text{NDF}: 18282.0/23$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

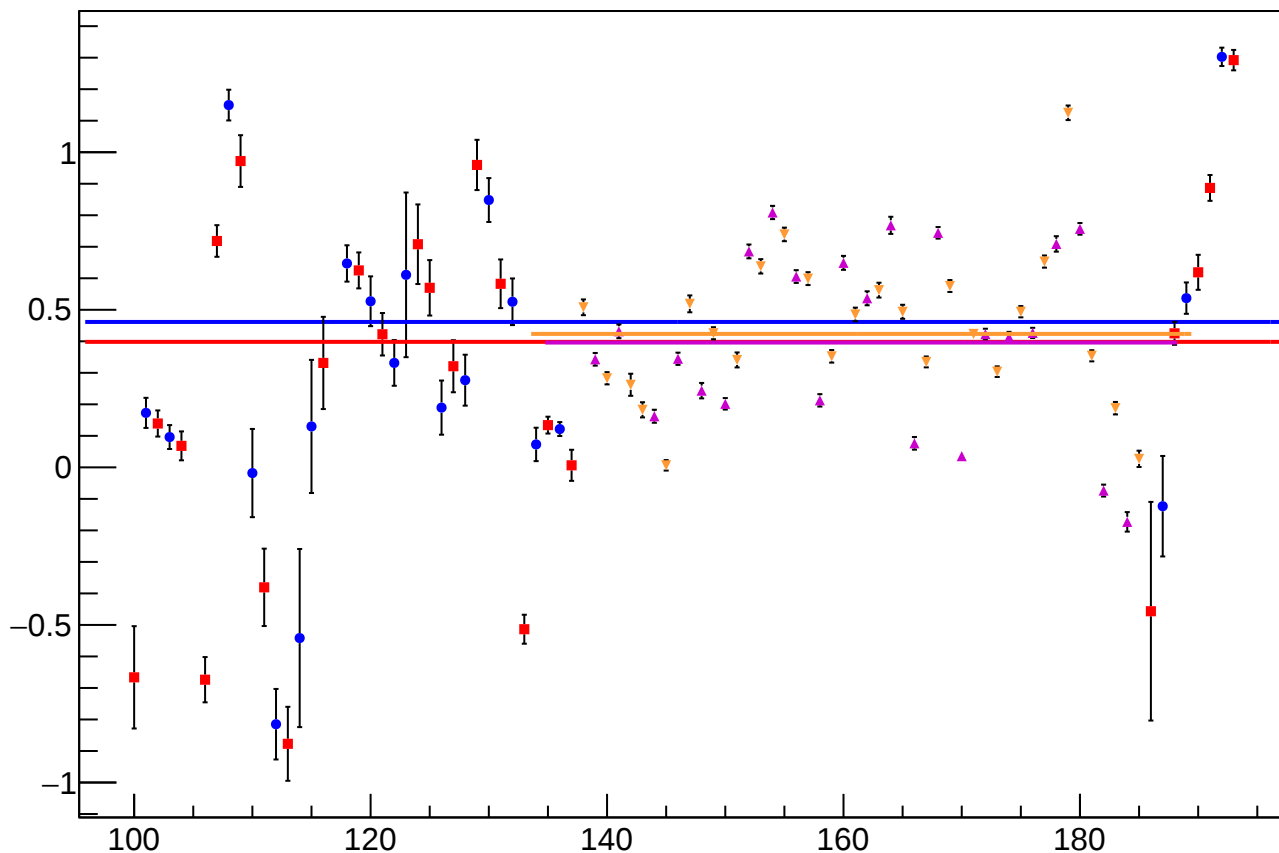
Right: -92.848 ± 0.164 $\chi^2/\text{NDF}: 30689.2/43$

In: -73.088 ± 0.086 $\chi^2/\text{NDF}: 33844.0/42$

Out: -74.295 ± 0.083 $\chi^2/\text{NDF}: 42113.8/48$

All: -73.710 ± 0.060 $\chi^2/\text{NDF}: 76060.4/91$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.461 ± 0.012 χ^2/NDF : 1688.4/19

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.398 ± 0.011 χ^2/NDF : 2167.2/23

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

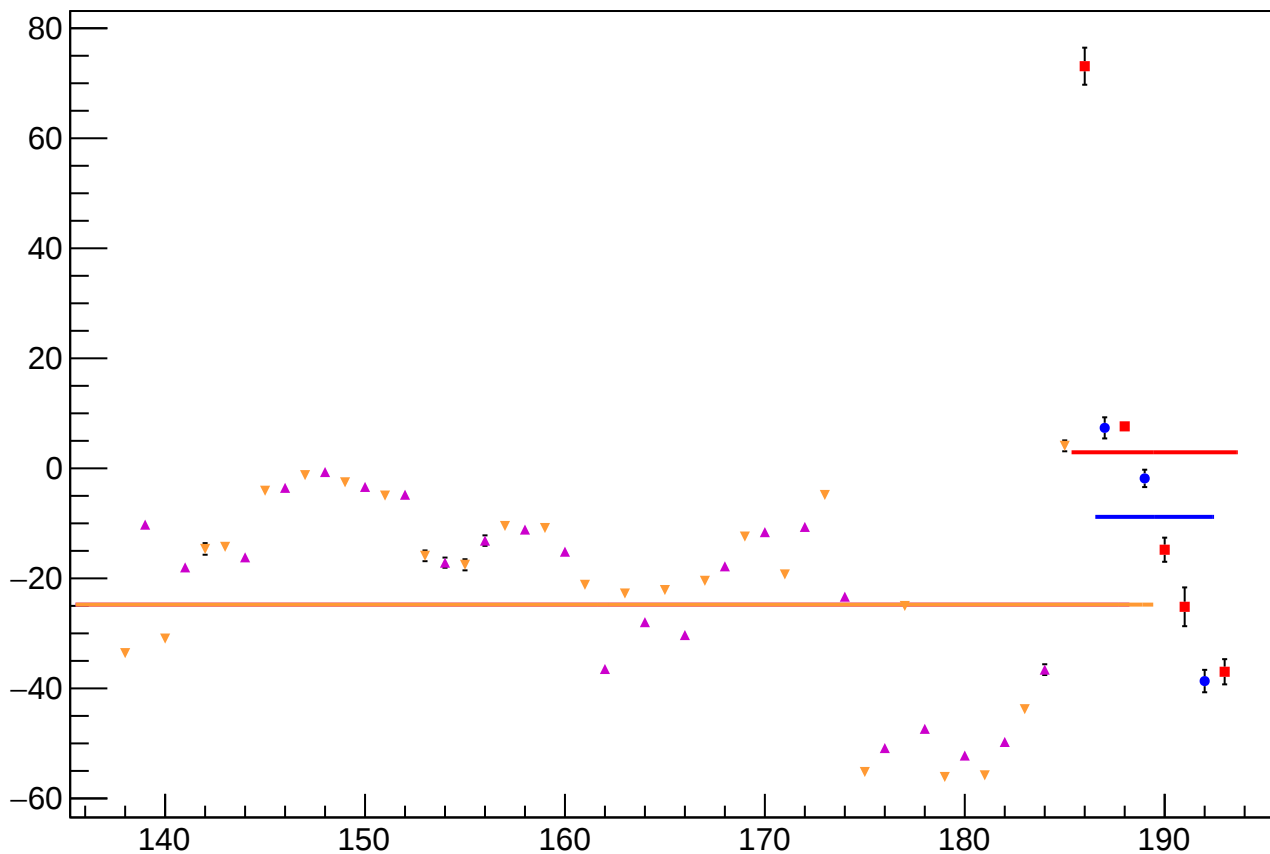
Right: 0.428 ± 0.008 χ^2/NDF : 3870.7/43

In: 0.403 ± 0.004 χ^2/NDF : 5766.8/42

Out: 0.420 ± 0.004 χ^2/NDF : 5056.8/48

All: 0.412 ± 0.003 χ^2/NDF : 10833.4/91

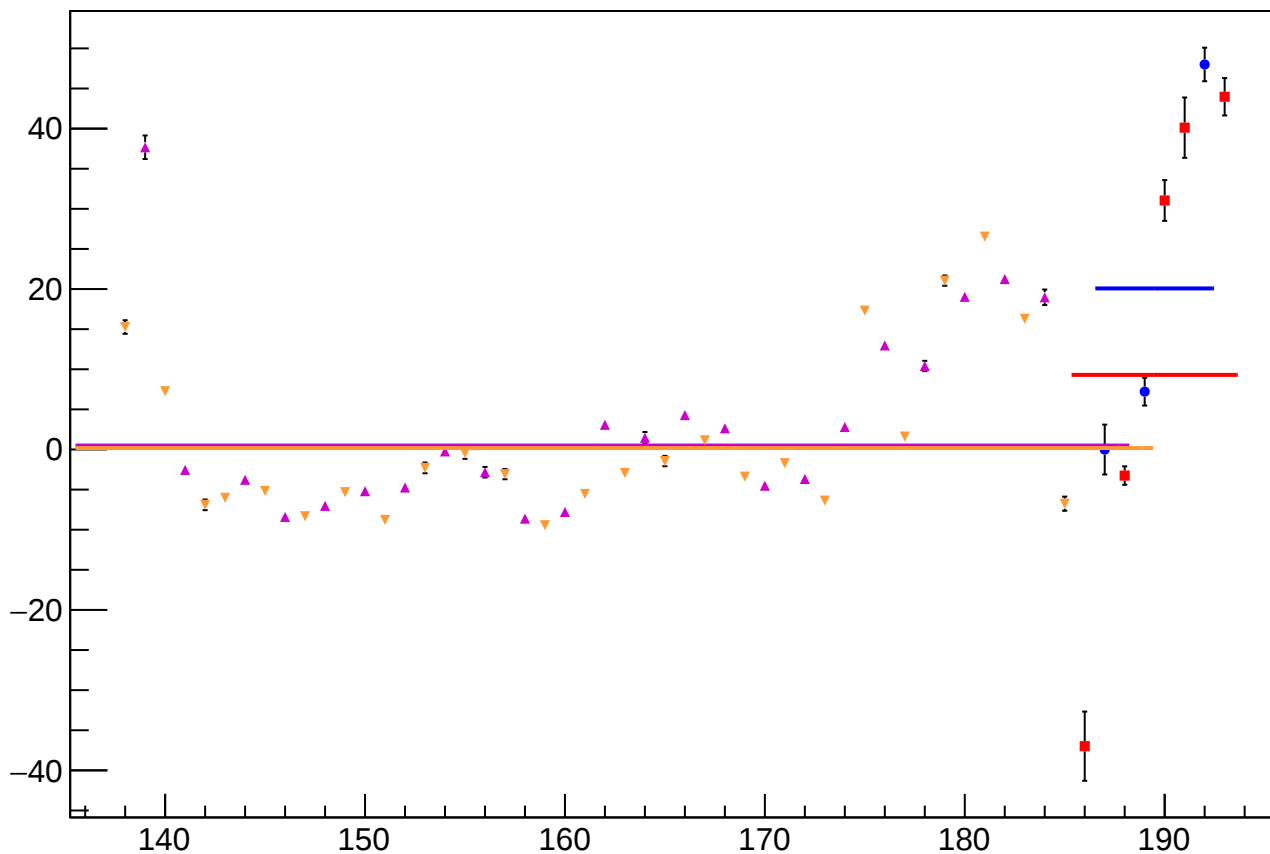
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.818 ± 1.047 χ^2/NDF : 305.1/2
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: 2.920 ± 0.686 χ^2/NDF : 900.2/4
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -0.606 ± 0.574 χ^2/NDF : 1293.4/7
 In: -24.483 ± 0.141 χ^2/NDF : 15340.7/25
 Out: -23.670 ± 0.137 χ^2/NDF : 20784.7/29
 All: -24.062 ± 0.098 χ^2/NDF : 36142.5/55

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.078+/-1.227 χ^2 /NDF: 274.6/2

Left Out: 0.177+/-0.109 χ^2 /NDF:8295.6/24

Right Out: 9.302+/-0.907 χ^2 /NDF: 595.6/4

Left In: 0.493+/-0.112 χ^2 /NDF:6555.4/22

Left: 0.330+/-0.078 χ^2 /NDF: 14855.0/47

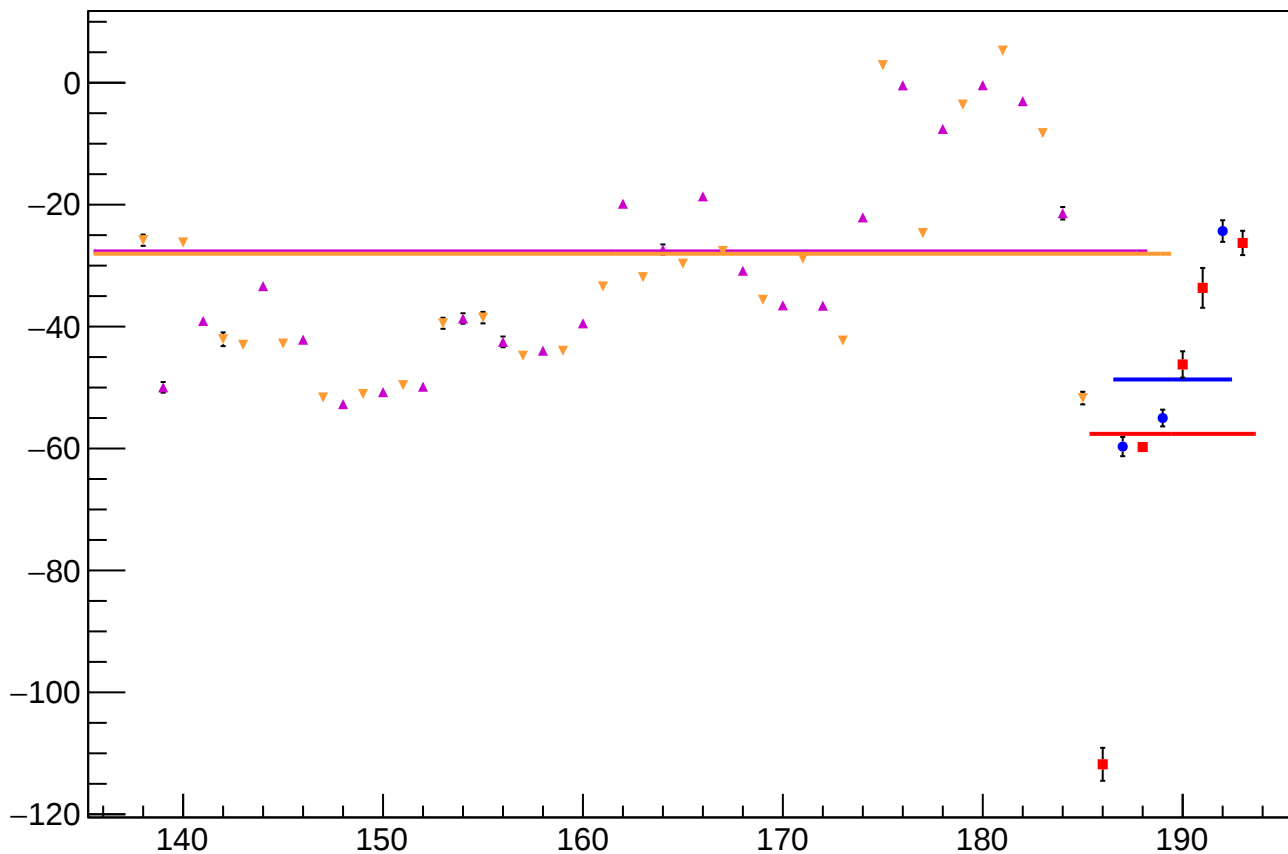
Right: 13.109+/-0.729 χ^2 /NDF: 920.1/7

In: 0.655+/-0.112 χ^2 /NDF:7082.7/25

Out: 0.306+/-0.108 χ^2 /NDF:8991.0/29

All: 0.475+/-0.078 χ^2 /NDF: 16078.8/55

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.676 $\pm$ 0.895 χ^2 /NDF: 258.5/2

Left Out: -28.050 $\pm$ 0.140 χ^2 /NDF:17144.5/24

Right Out: -57.595 $\pm$ 0.570 χ^2 /NDF: 741.0/4

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

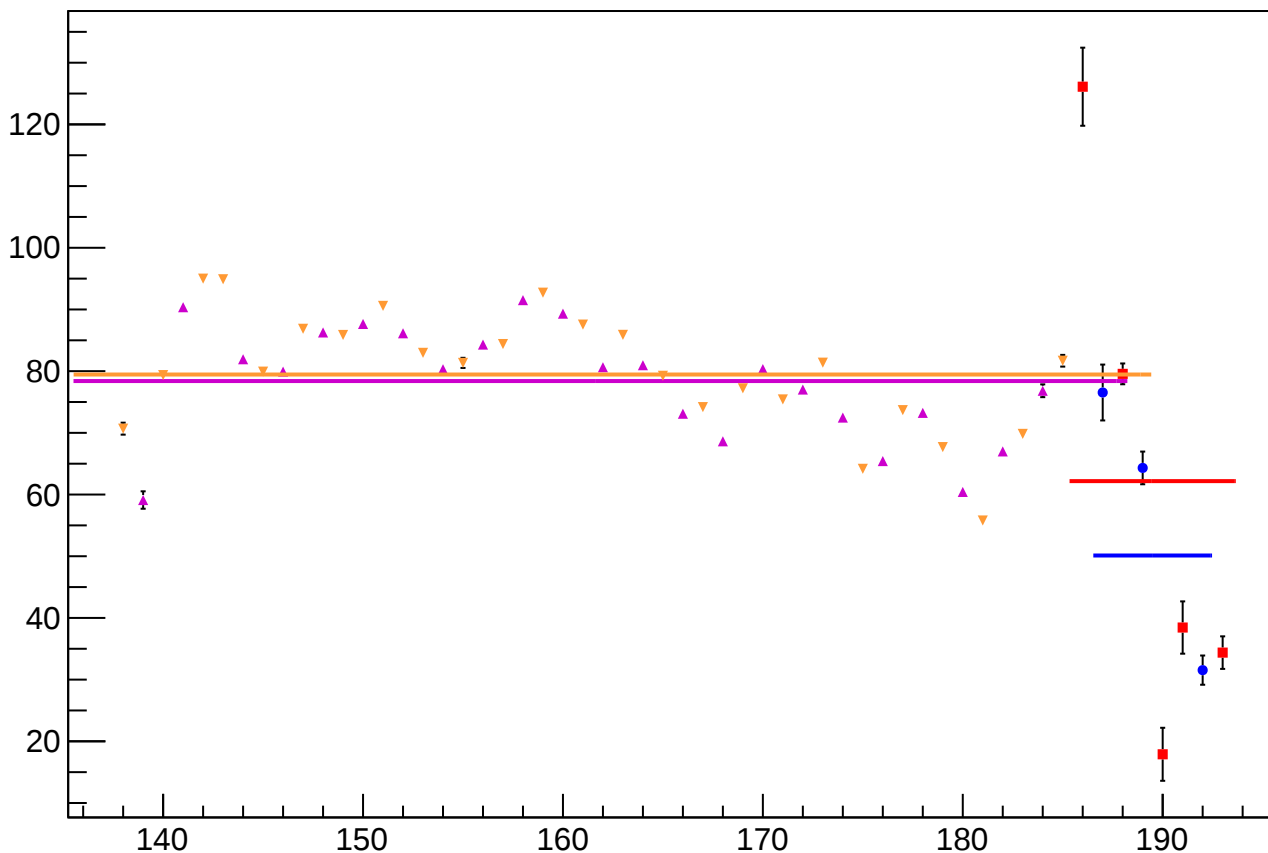
Right: -55.024 $\pm$ 0.481 χ^2 /NDF: 1070.1/7

In: -28.185 $\pm$ 0.141 χ^2 /NDF:15799.0/25

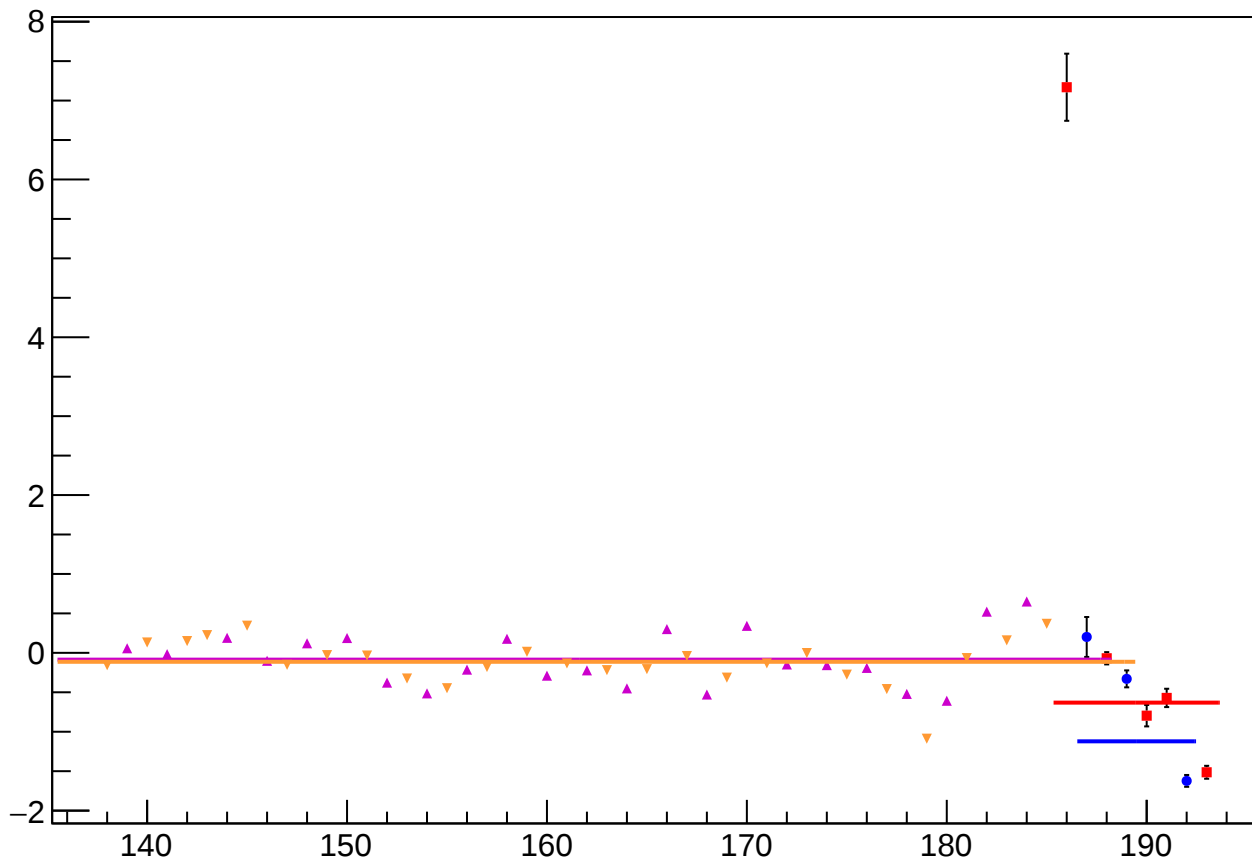
Out: -29.730 $\pm$ 0.136 χ^2 /NDF:20422.5/29

All: -28.985 $\pm$ 0.098 χ^2 /NDF: 36283.8/55

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.122 ± 0.060 $\chi^2/\text{NDF}: 126.4/2$

Left Out: -0.113 ± 0.006 $\chi^2/\text{NDF}: 2303.1/24$

Right Out: -0.631 ± 0.047 $\chi^2/\text{NDF}: 506.1/4$

Left In: -0.086 ± 0.006 $\chi^2/\text{NDF}: 3132.1/22$

Left: -0.100 ± 0.004 $\chi^2/\text{NDF}: 5446.4/47$

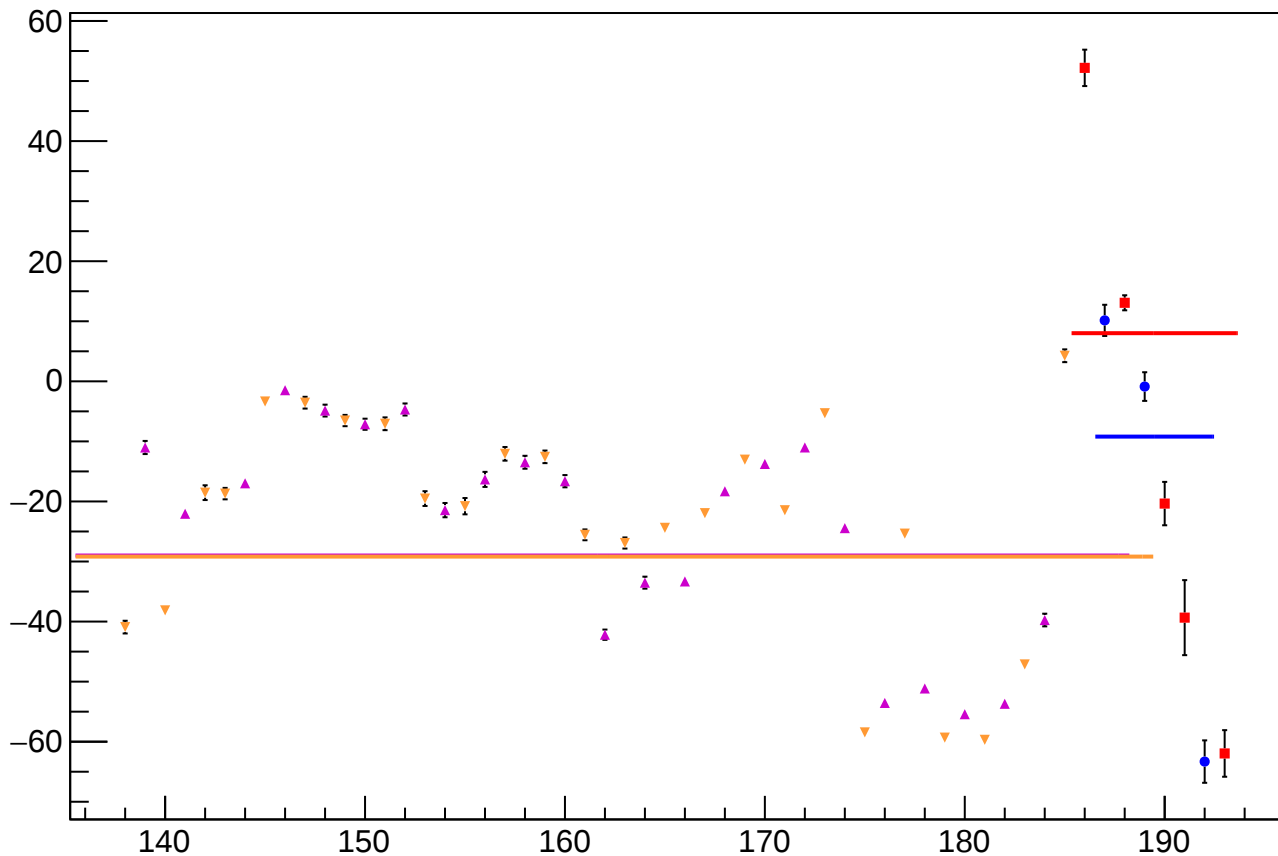
Right: -0.820 ± 0.037 $\chi^2/\text{NDF}: 673.9/7$

In: -0.096 ± 0.006 $\chi^2/\text{NDF}: 3556.1/25$

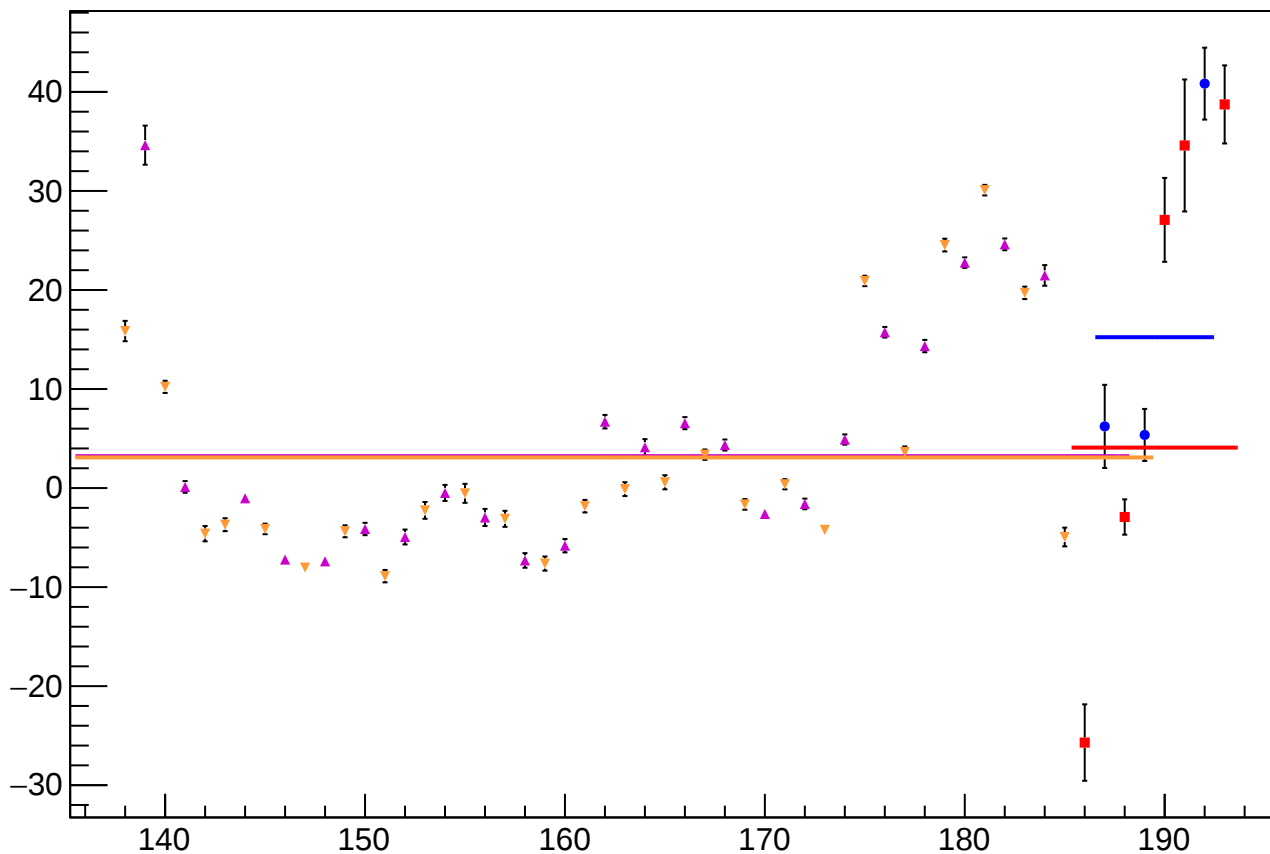
Out: -0.121 ± 0.006 $\chi^2/\text{NDF}: 2927.4/29$

All: -0.109 ± 0.004 $\chi^2/\text{NDF}: 6493.0/55$

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.232+/-1.898 χ^2/NDF : 68.4/2

Left Out: 3.091+/-0.124 χ^2/NDF : 8084.1/24

Right Out: 4.084+/-1.382 χ^2/NDF : 202.6/4

Left In: 3.221+/-0.127 χ^2/NDF : 6237.6/22

Left: 3.155+/-0.089 χ^2/NDF : 14322.2/47

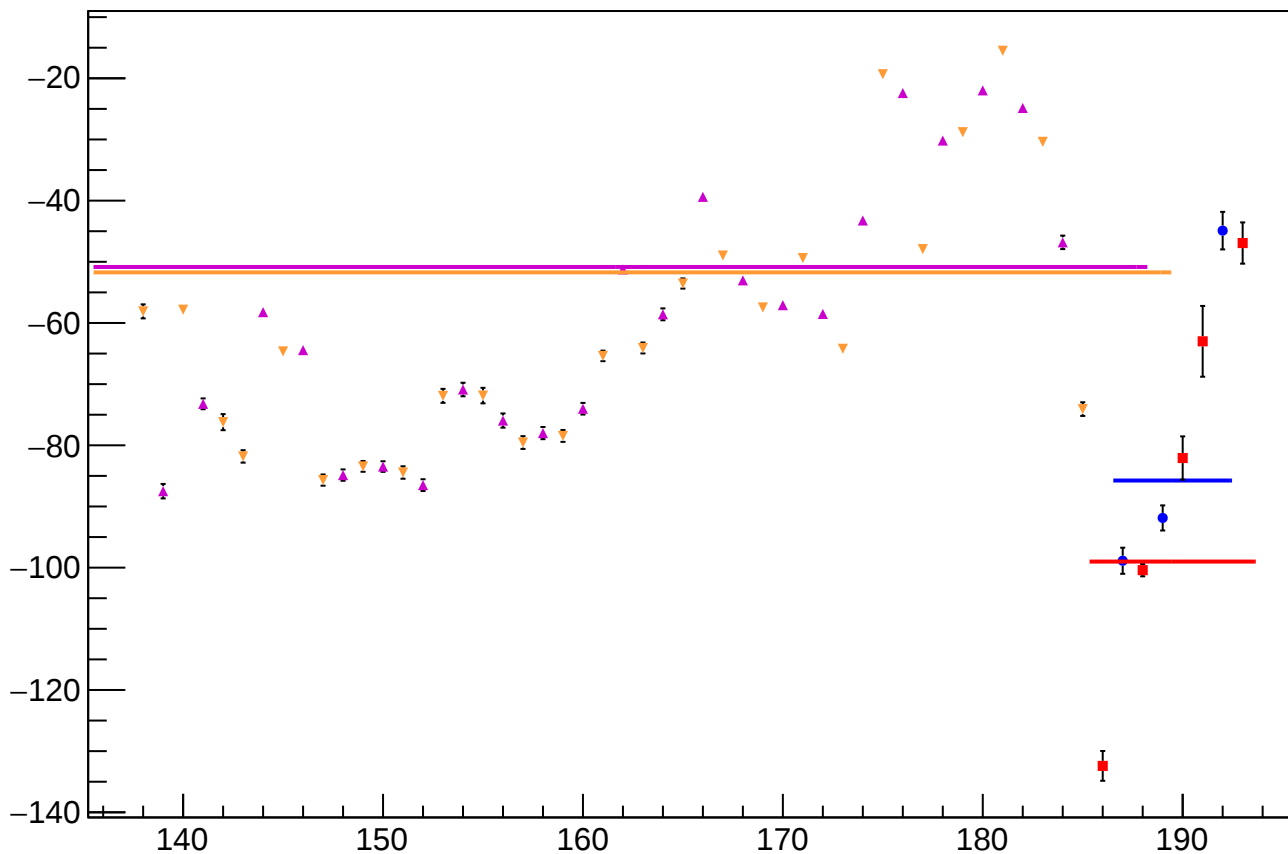
Right: 7.947+/-1.117 χ^2/NDF : 293.6/7

In: 3.275+/-0.127 χ^2/NDF : 6345.9/25

Out: 3.099+/-0.124 χ^2/NDF : 8287.2/29

All: 3.185+/-0.089 χ^2/NDF : 14634.1/55

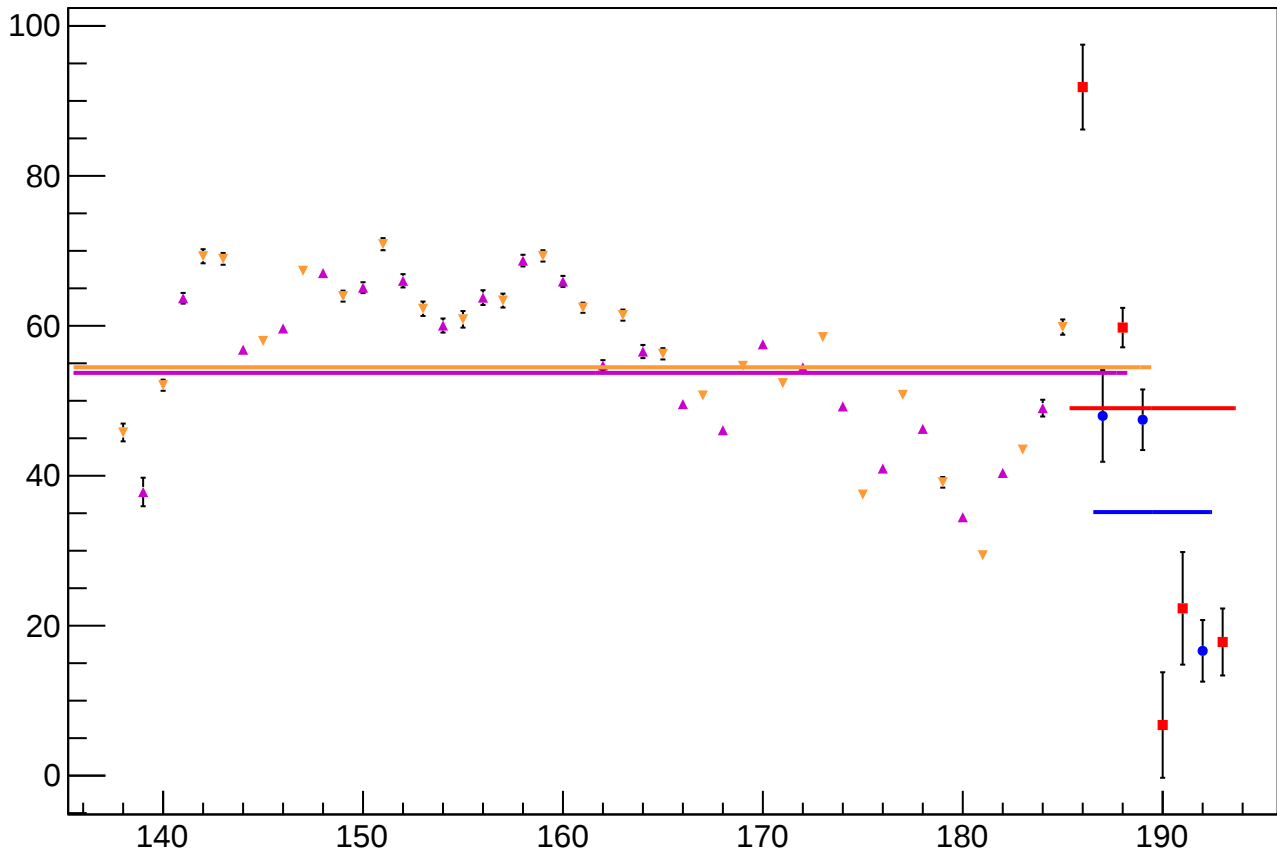
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -85.759 ± 1.333 $\chi^2/\text{NDF}: 223.6/2$
 Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$
 Right Out: -99.009 ± 0.862 $\chi^2/\text{NDF}: 490.2/4$
 Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$
 Right: -95.100 ± 0.724 $\chi^2/\text{NDF}: 783.4/7$
 In: -51.341 ± 0.159 $\chi^2/\text{NDF}: 18172.0/25$
 Out: -53.263 ± 0.155 $\chi^2/\text{NDF}: 22937.3/29$
 All: -52.324 ± 0.111 $\chi^2/\text{NDF}: 41184.2/55$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 35.156 $\pm$ 2.606 χ^2 /NDF: 34.0/2

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 49.012 $\pm$ 1.947 χ^2 /NDF: 171.4/4

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF:4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

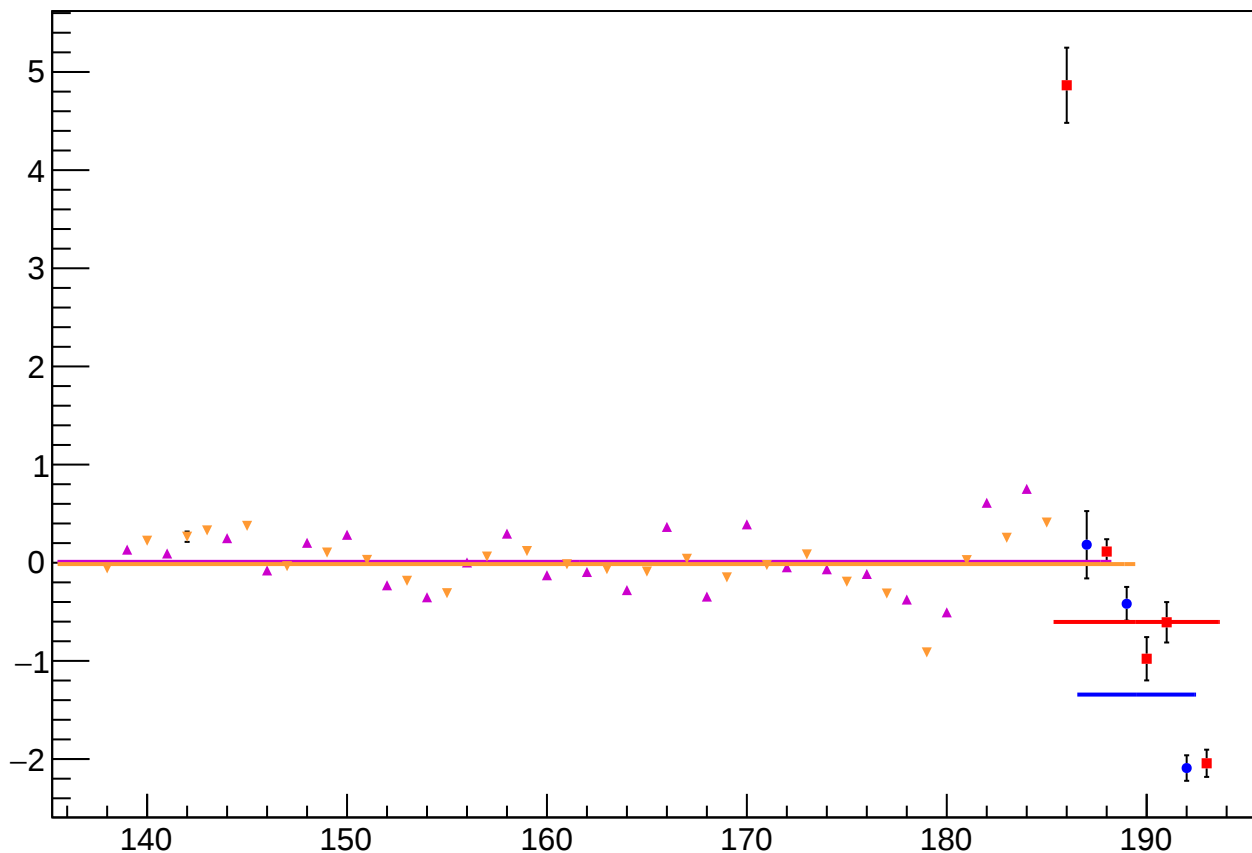
Right: 44.047 $\pm$ 1.560 χ^2 /NDF: 223.5/7

In: 53.668 $\pm$ 0.143 χ^2 /NDF:4670.3/25

Out: 54.448 $\pm$ 0.140 χ^2 /NDF:6446.2/29

All: 54.066 $\pm$ 0.100 χ^2 /NDF: 11131.7/55

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.343+/-0.099 χ^2/NDF : 82.0/2

Left Out: -0.014+/-0.006 χ^2/NDF : 1654.7/24

Right Out: -0.603+/-0.078 χ^2/NDF : 346.9/4

Left In: 0.009+/-0.007 χ^2/NDF : 2220.5/22

Left: -0.003+/-0.005 χ^2/NDF : 3881.4/47

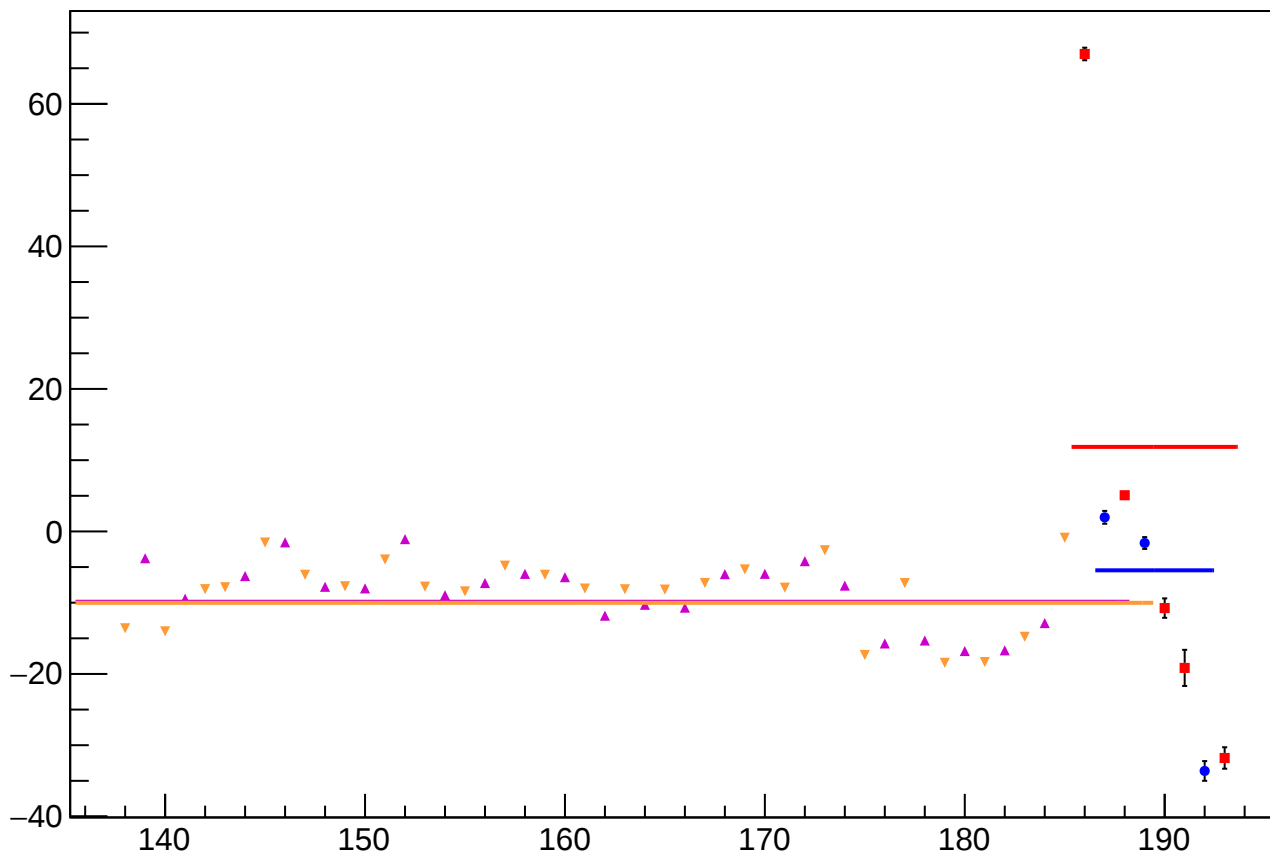
Right: -0.884+/-0.061 χ^2/NDF : 463.4/7

In: 0.003+/-0.007 χ^2/NDF : 2487.5/25

Out: -0.018+/-0.006 χ^2/NDF : 2059.0/29

All: -0.007+/-0.005 χ^2/NDF : 4551.7/55

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



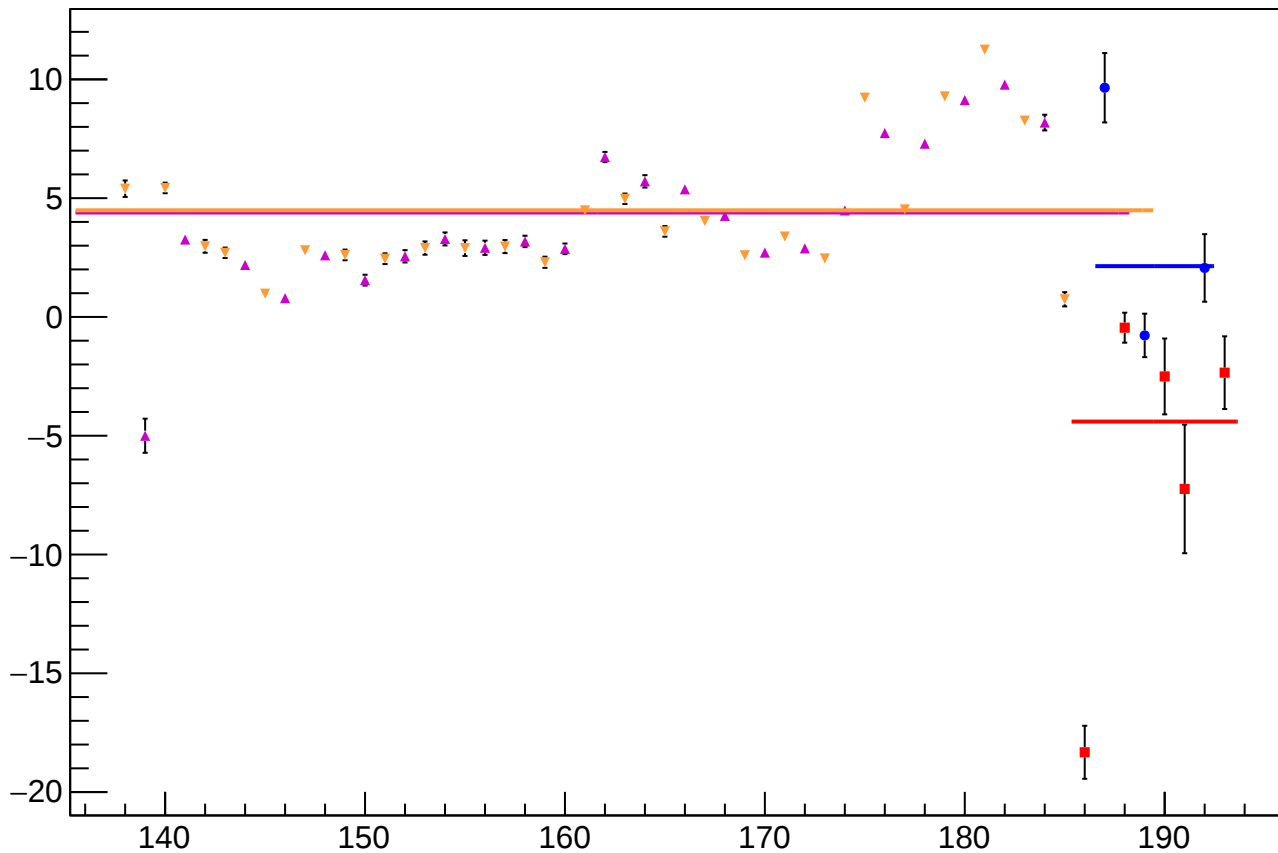
Right In: -5.457+/-0.558 χ^2/NDF : 504.1/2
 Left Out: -10.017+/-0.051 χ^2/NDF :12552.8/24
 Right Out: 11.864+/-0.366 χ^2/NDF : 5380.7/4
 Left In: -9.865+/-0.051 χ^2/NDF :9345.4/22

Left: -9.942+/-0.036 χ^2/NDF : 21902.5/47
 Right: 6.647+/-0.306 χ^2/NDF : 6557.9/7

In: -9.828+/-0.051 χ^2/NDF :9911.4/25
 Out: -9.607+/-0.050 χ^2/NDF :21432.6/29

All: -9.715+/-0.036 χ^2/NDF : 31353.5/55

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.138 ± 0.681 $\chi^2/\text{NDF}: 36.6/2$

Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$

Right Out: -4.405 ± 0.484 $\chi^2/\text{NDF}: 199.1/4$

Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$

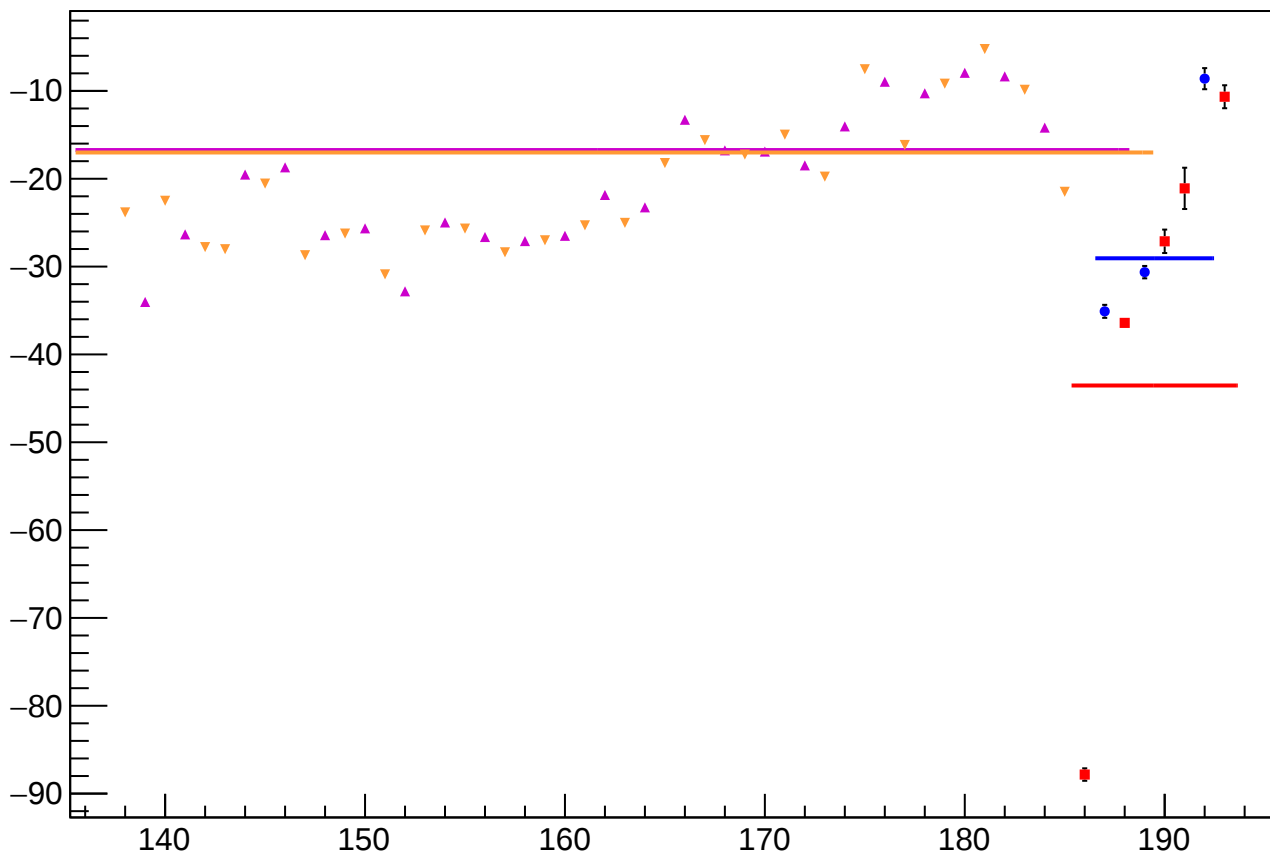
Right: -2.208 ± 0.394 $\chi^2/\text{NDF}: 297.2/7$

In: 4.388 ± 0.041 $\chi^2/\text{NDF}: 4278.0/25$

Out: 4.426 ± 0.041 $\chi^2/\text{NDF}: 5367.0/29$

All: 4.407 ± 0.029 $\chi^2/\text{NDF}: 9645.5/55$

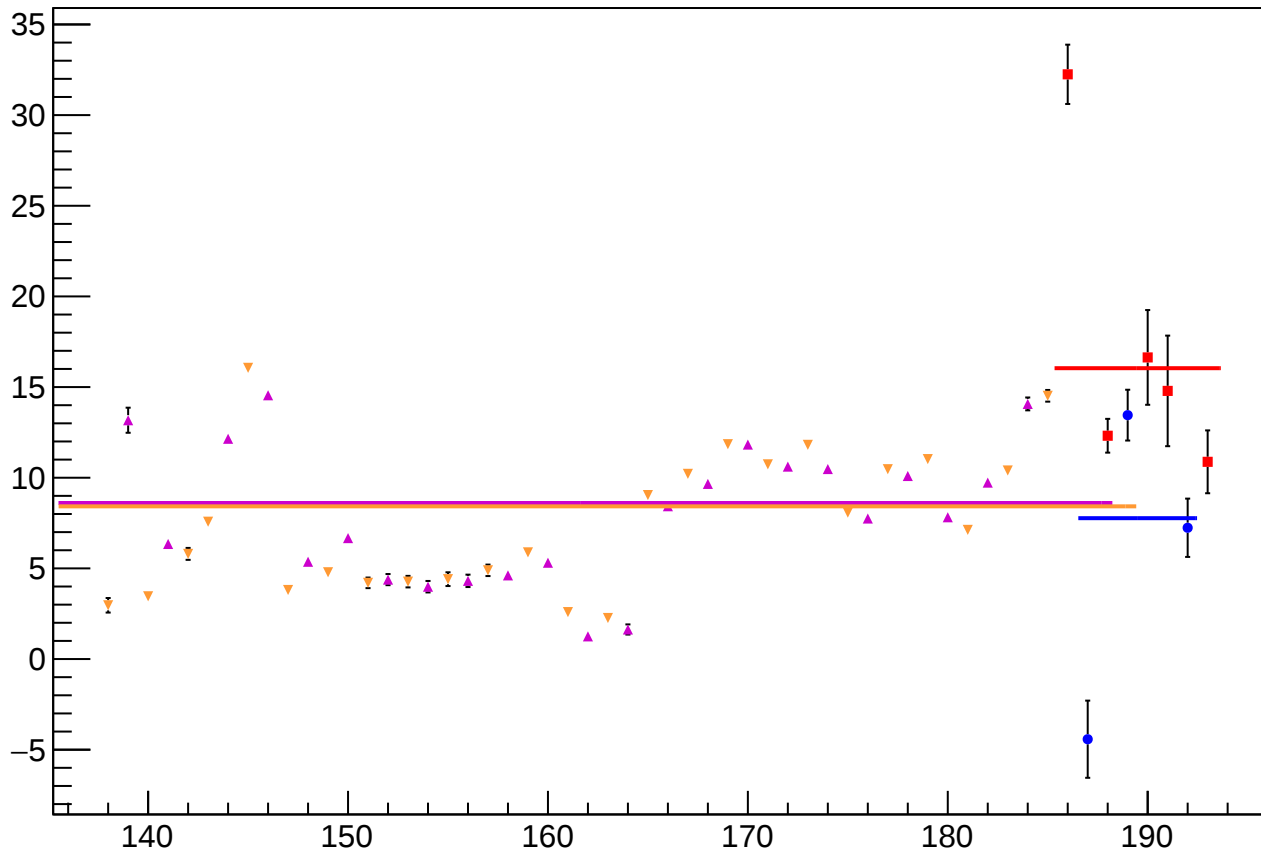
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.055 ± 0.471 χ^2/NDF : 360.9/2
 Left Out: -17.008 ± 0.051 χ^2/NDF : 22094.7/24
 Right Out: -43.539 ± 0.301 χ^2/NDF : 5148.8/4
 Left In: -16.732 ± 0.052 χ^2/NDF : 18777.2/22

Left: -16.871 ± 0.036 χ^2/NDF : 40886.5/47
 Right: -39.335 ± 0.254 χ^2/NDF : 6182.0/7
 In: -16.878 ± 0.051 χ^2/NDF : 19815.7/25
 Out: -17.751 ± 0.050 χ^2/NDF : 34798.5/29
 All: -17.322 ± 0.036 χ^2/NDF : 54762.1/55

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.769 $\pm$ 0.946 χ^2 /NDF: 49.4/2

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF:6470.1/24

Right Out: 16.042 $\pm$ 0.688 χ^2 /NDF: 123.3/4

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

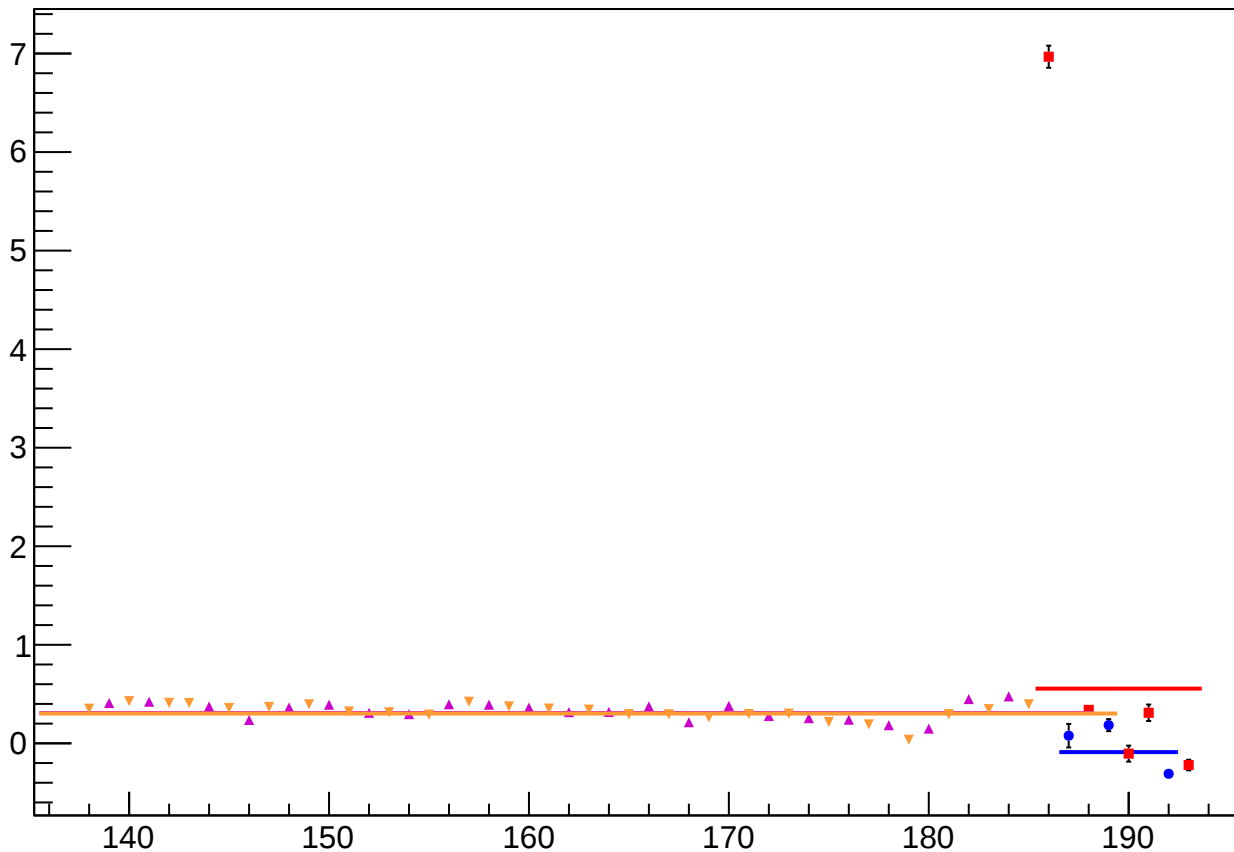
Right: 13.181 $\pm$ 0.556 χ^2 /NDF: 222.7/7

In: 8.604 $\pm$ 0.046 χ^2 /NDF:5554.4/25

Out: 8.455 $\pm$ 0.045 χ^2 /NDF:6715.6/29

All: 8.529 $\pm$ 0.032 χ^2 /NDF: 12275.3/55

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.089 ± 0.037 $\chi^2/\text{NDF}: 40.7/2$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.555 ± 0.029 $\chi^2/\text{NDF}: 3571.8/4$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

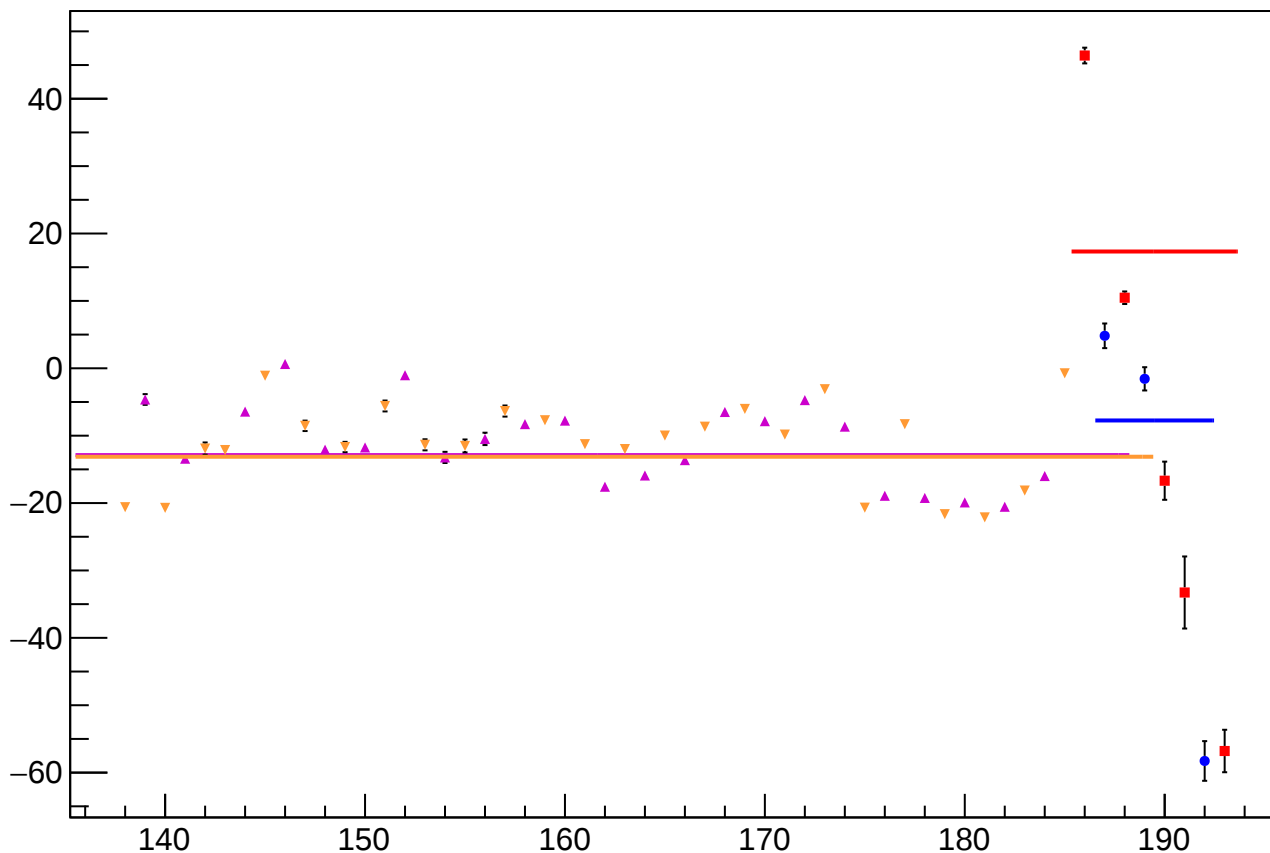
Right: 0.315 ± 0.023 $\chi^2/\text{NDF}: 3800.9/7$

In: 0.306 ± 0.002 $\chi^2/\text{NDF}: 1853.5/25$

Out: 0.304 ± 0.002 $\chi^2/\text{NDF}: 5240.0/29$

All: 0.305 ± 0.001 $\chi^2/\text{NDF}: 7094.1/55$

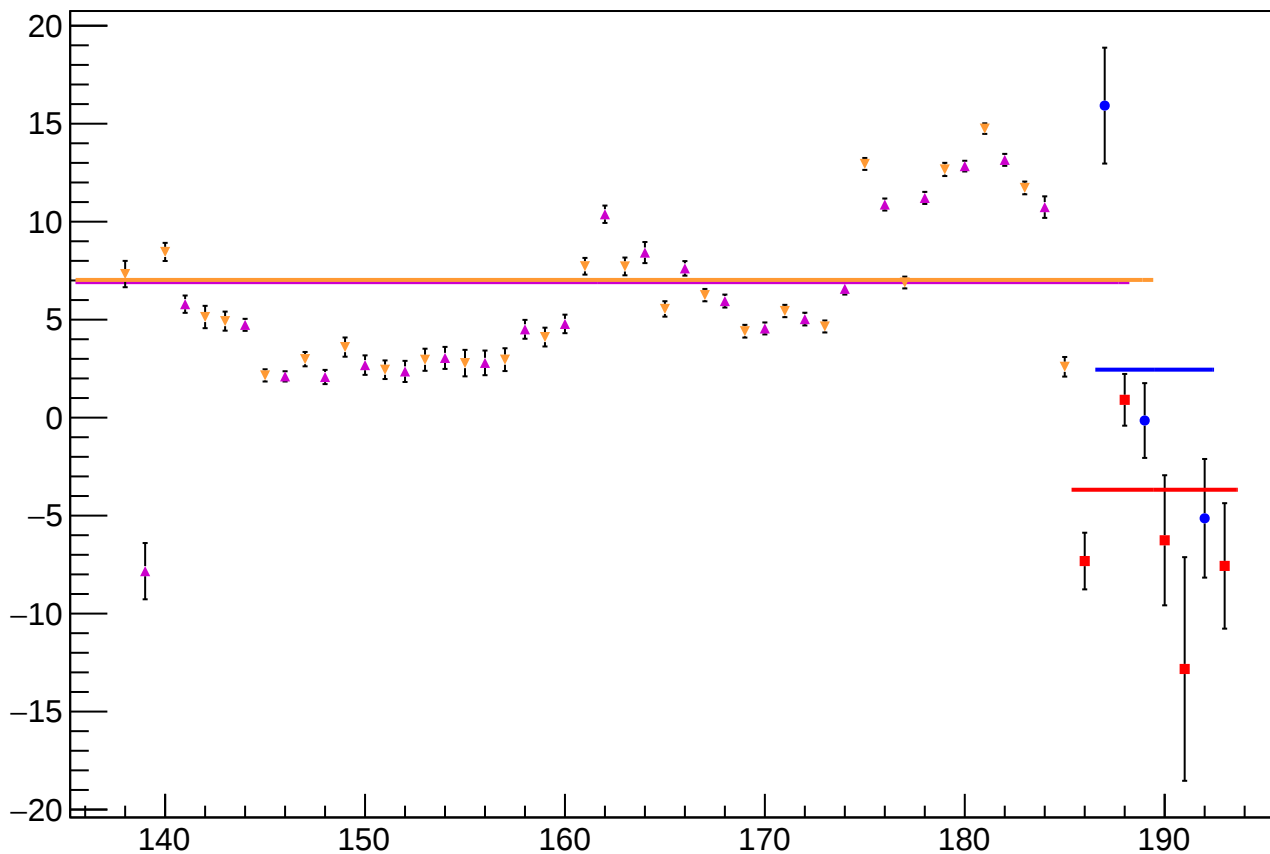
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.742 ± 1.155 χ^2/NDF : 354.6/2
 Left Out: -13.125 ± 0.094 χ^2/NDF : 5977.6/24
 Right Out: 17.330 ± 0.683 χ^2/NDF : 1462.9/4
 Left In: -12.885 ± 0.095 χ^2/NDF : 4776.2/22

Left: -13.007 ± 0.067 χ^2/NDF : 10757.0/47
 Right: 10.836 ± 0.588 χ^2/NDF : 2166.9/7
 In: -12.851 ± 0.095 χ^2/NDF : 5150.4/25
 Out: -12.562 ± 0.093 χ^2/NDF : 9394.3/29
 All: -12.703 ± 0.066 χ^2/NDF : 14549.5/55

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.448 ± 1.417 χ^2/NDF : 28.9/2

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -3.680 ± 0.887 χ^2/NDF : 23.1/4

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

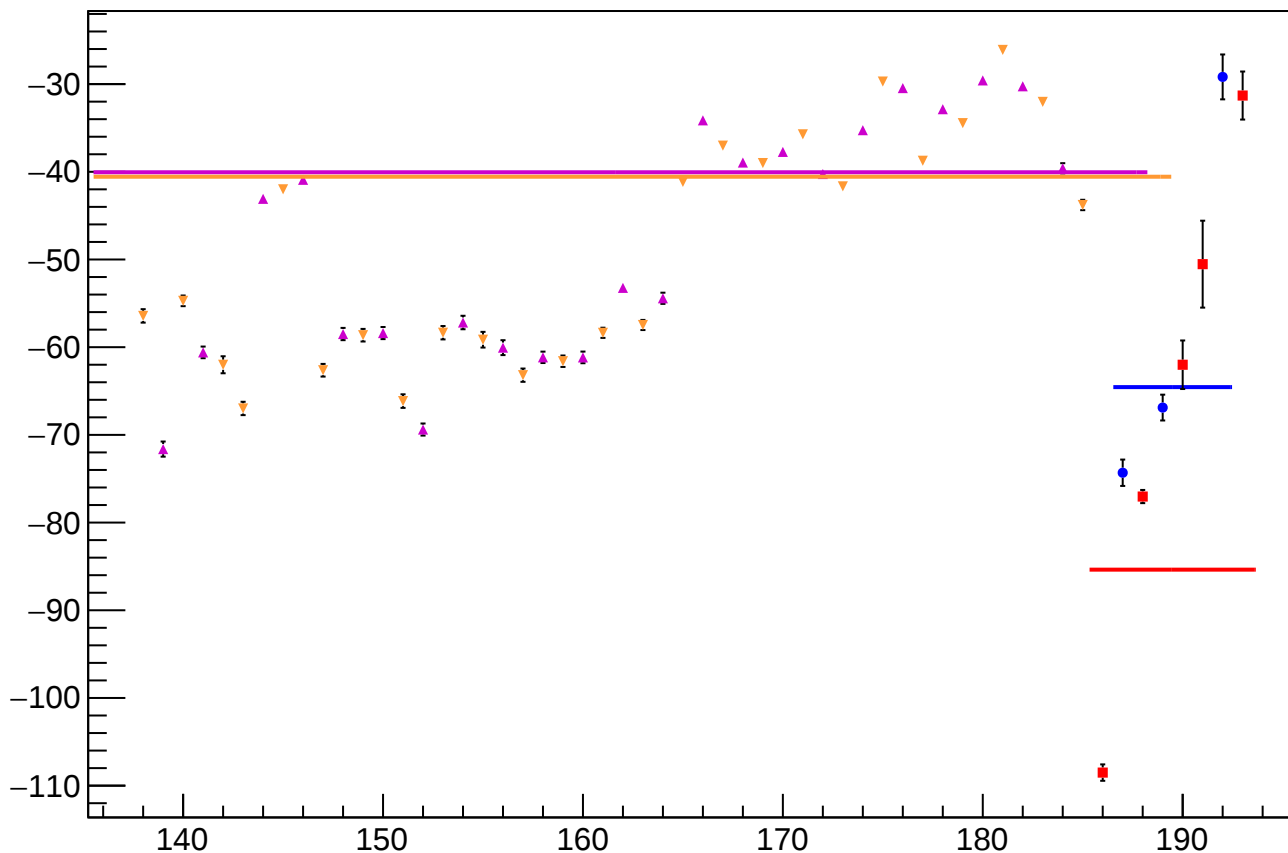
Right: -1.955 ± 0.752 χ^2/NDF : 65.4/7

In: 6.901 ± 0.078 χ^2/NDF : 2467.0/25

Out: 6.947 ± 0.077 χ^2/NDF : 2833.1/29

All: 6.924 ± 0.055 χ^2/NDF : 5300.3/55

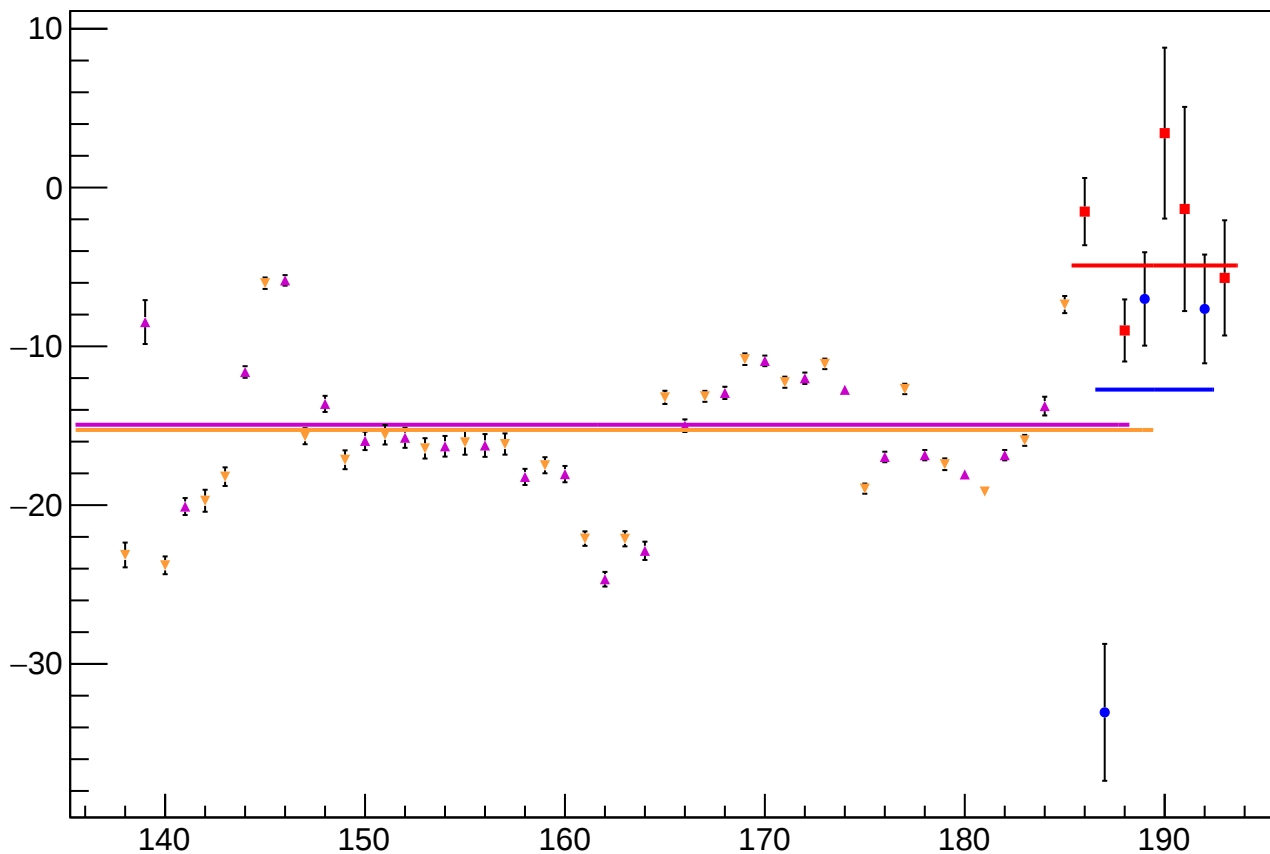
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.553 ± 0.973 χ^2/NDF : 235.7/2
 Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24
 Right Out: -85.368 ± 0.558 χ^2/NDF : 1245.1/4
 Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47
 Right: -80.222 ± 0.484 χ^2/NDF : 1825.5/7
 In: -40.288 ± 0.095 χ^2/NDF : 14791.2/25
 Out: -41.820 ± 0.093 χ^2/NDF : 23160.5/29
 All: -41.069 ± 0.067 χ^2/NDF : 38083.7/55

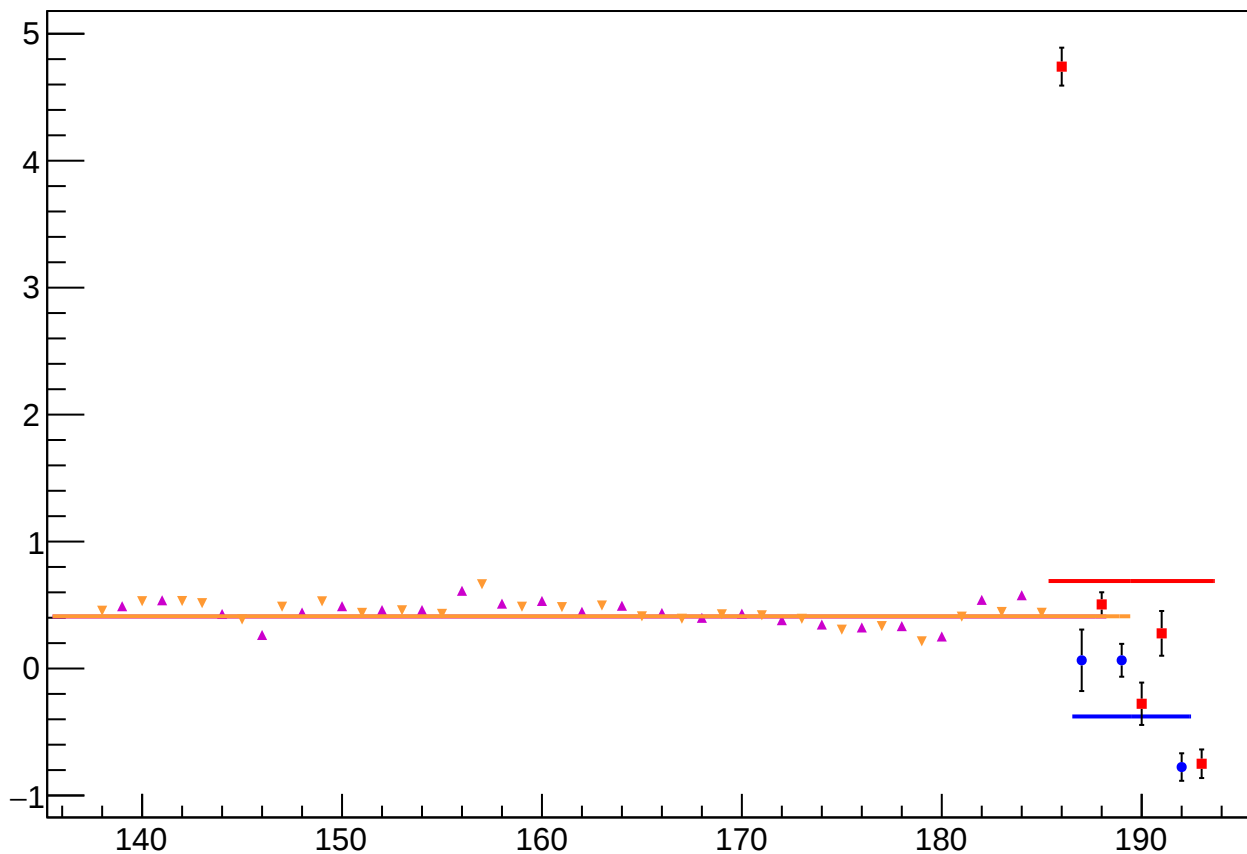
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.724 $\pm$ 1.981 χ^2 /NDF: 28.2/2
 Left Out: -15.266 $\pm$ 0.086 χ^2 /NDF:2595.5/24
 Right Out: -4.907 $\pm$ 1.271 χ^2 /NDF: 9.7/4
 Left In: -14.936 $\pm$ 0.087 χ^2 /NDF:2199.7/22

Left: -15.103 $\pm$ 0.061 χ^2 /NDF: 4802.4/47
 Right: -7.185 $\pm$ 1.070 χ^2 /NDF: 48.9/7
 In: -14.932 $\pm$ 0.087 χ^2 /NDF:2229.1/25
 Out: -15.218 $\pm$ 0.086 χ^2 /NDF:2671.3/29
 All: -15.077 $\pm$ 0.061 χ^2 /NDF: 4906.0/55

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.378 ± 0.079 $\chi^2/\text{NDF}: 28.6/2$

Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$

Right Out: 0.689 ± 0.058 $\chi^2/\text{NDF}: 941.8/4$

Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$

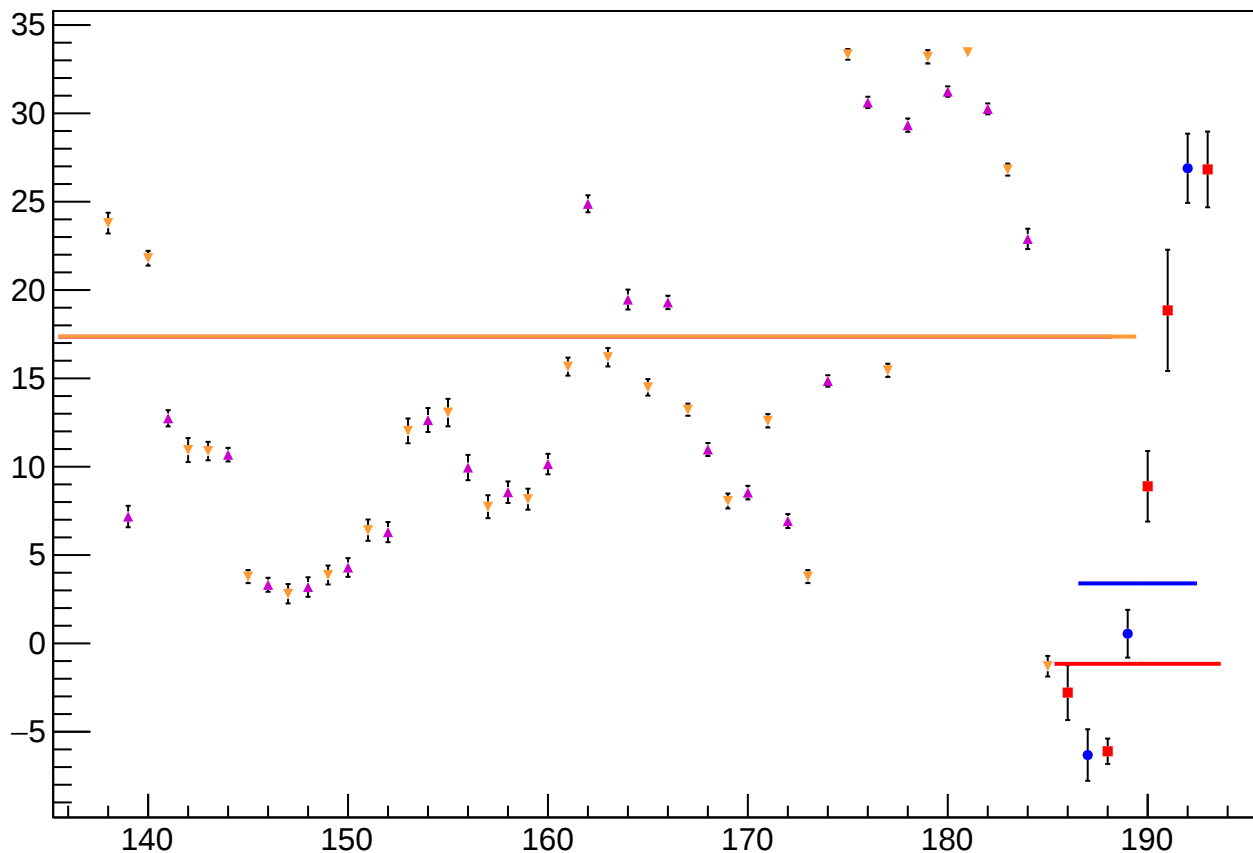
Right: 0.316 ± 0.046 $\chi^2/\text{NDF}: 1090.2/7$

In: 0.407 ± 0.004 $\chi^2/\text{NDF}: 686.5/25$

Out: 0.413 ± 0.004 $\chi^2/\text{NDF}: 1393.6/29$

All: 0.410 ± 0.003 $\chi^2/\text{NDF}: 2081.0/55$

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.395 ± 0.885 χ^2/NDF : 192.6/2

Left Out: 17.367 ± 0.087 χ^2/NDF : 16337.6/24

Right Out: -1.154 ± 0.586 χ^2/NDF : 278.6/4

Left In: 17.355 ± 0.089 χ^2/NDF : 12745.1/22

Left: 17.361 ± 0.062 χ^2/NDF : 29082.8/47

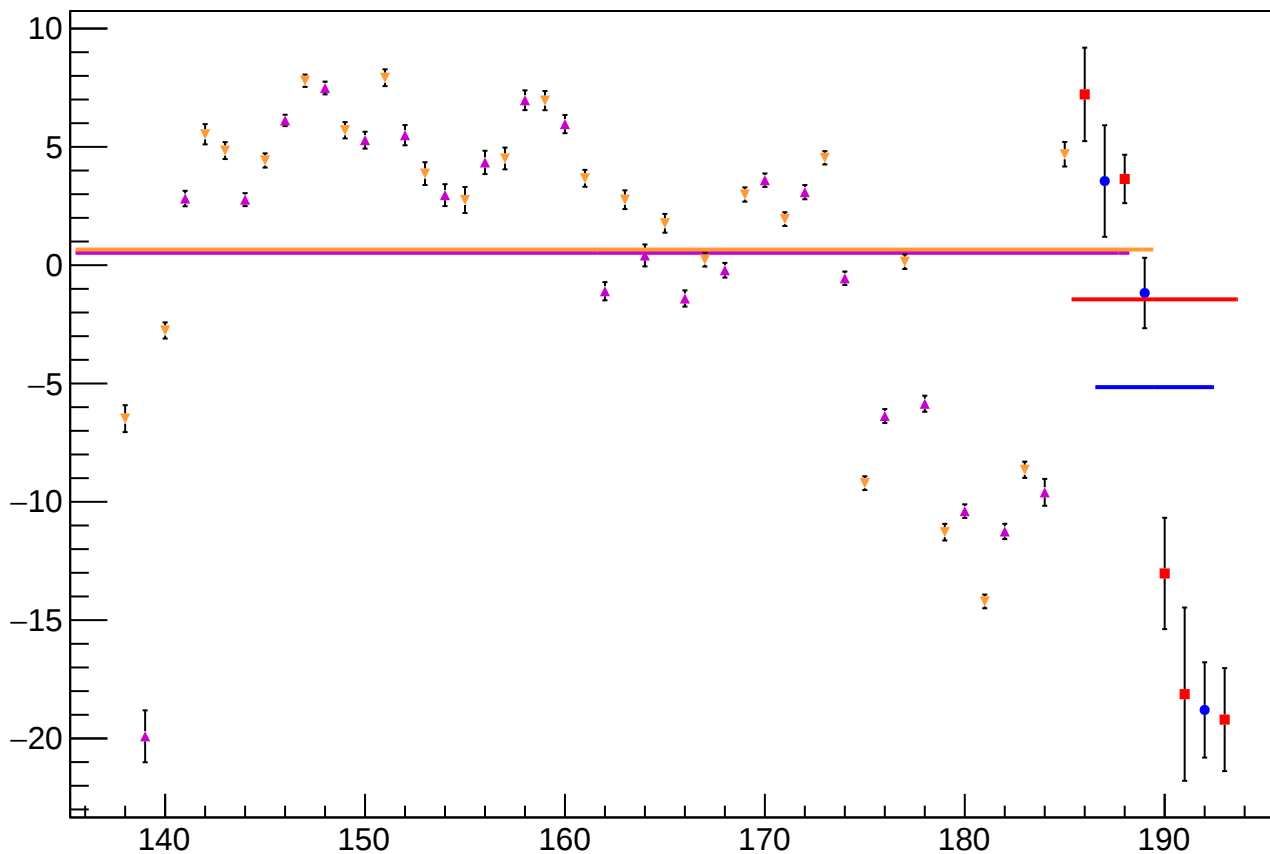
Right: 0.233 ± 0.488 χ^2/NDF : 489.7/7

In: 17.216 ± 0.088 χ^2/NDF : 13184.3/25

Out: 16.967 ± 0.086 χ^2/NDF : 17594.3/29

All: 17.088 ± 0.062 χ^2/NDF : 30782.7/55

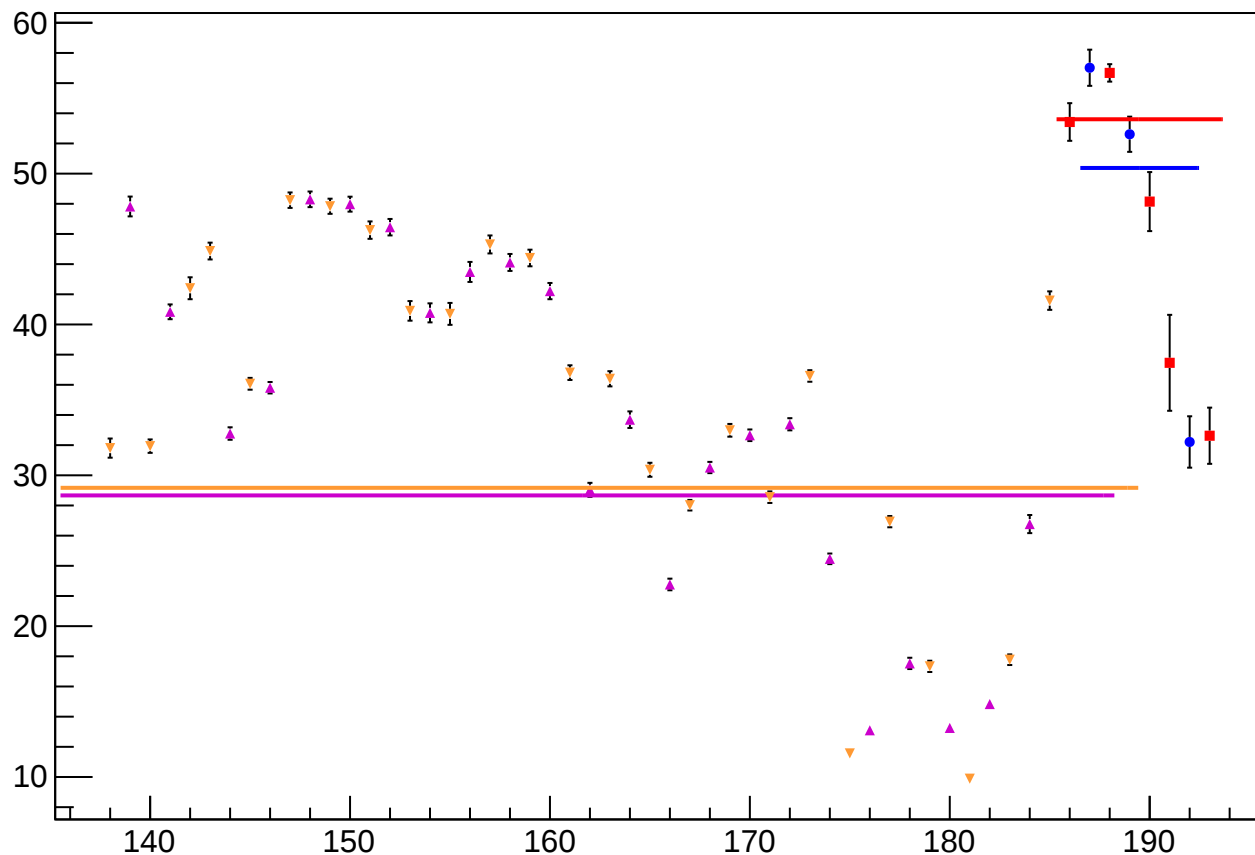
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.154 ± 1.067 χ^2/NDF : 66.7/2
 Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24
 Right Out: -1.444 ± 0.772 χ^2/NDF : 155.5/4
 Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47
 Right: -2.718 ± 0.625 χ^2/NDF : 230.1/7
 In: 0.499 ± 0.071 χ^2/NDF : 6824.6/25
 Out: 0.644 ± 0.069 χ^2/NDF : 8716.7/29
 All: 0.573 ± 0.049 χ^2/NDF : 15543.5/55

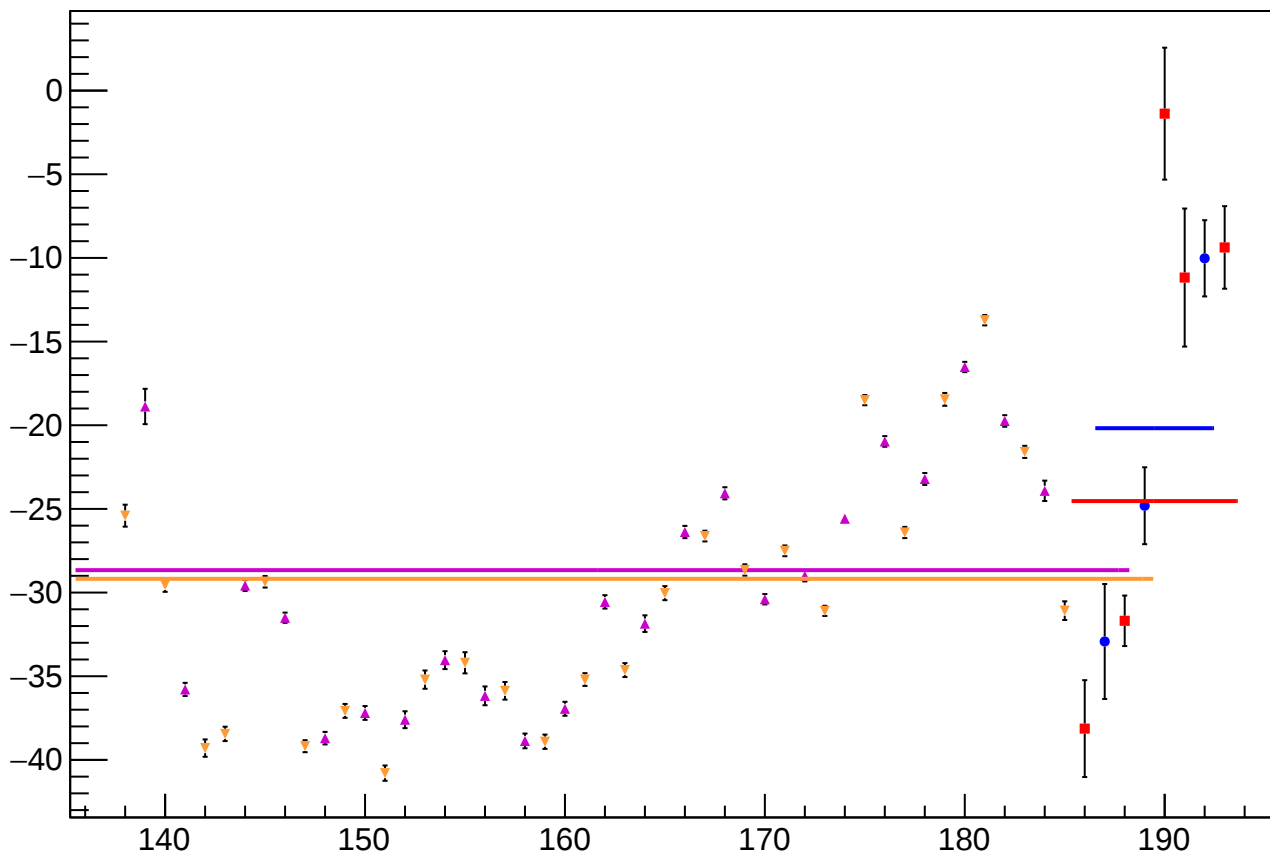
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 50.376+/-0.751 χ^2/NDF : 148.1/2
 Left Out: 29.171+/-0.088 χ^2/NDF :18974.7/24
 Right Out: 53.604+/-0.483 χ^2/NDF : 188.6/4
 Left In: 28.667+/-0.089 χ^2/NDF :16847.2/22

Left: 28.923+/-0.063 χ^2/NDF : 35838.1/47
 Right: 52.657+/-0.406 χ^2/NDF : 349.8/7
 In: 28.969+/-0.089 χ^2/NDF :17820.3/25
 Out: 29.951+/-0.086 χ^2/NDF :21635.5/29
 All: 29.472+/-0.062 χ^2/NDF : 39518.8/55

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



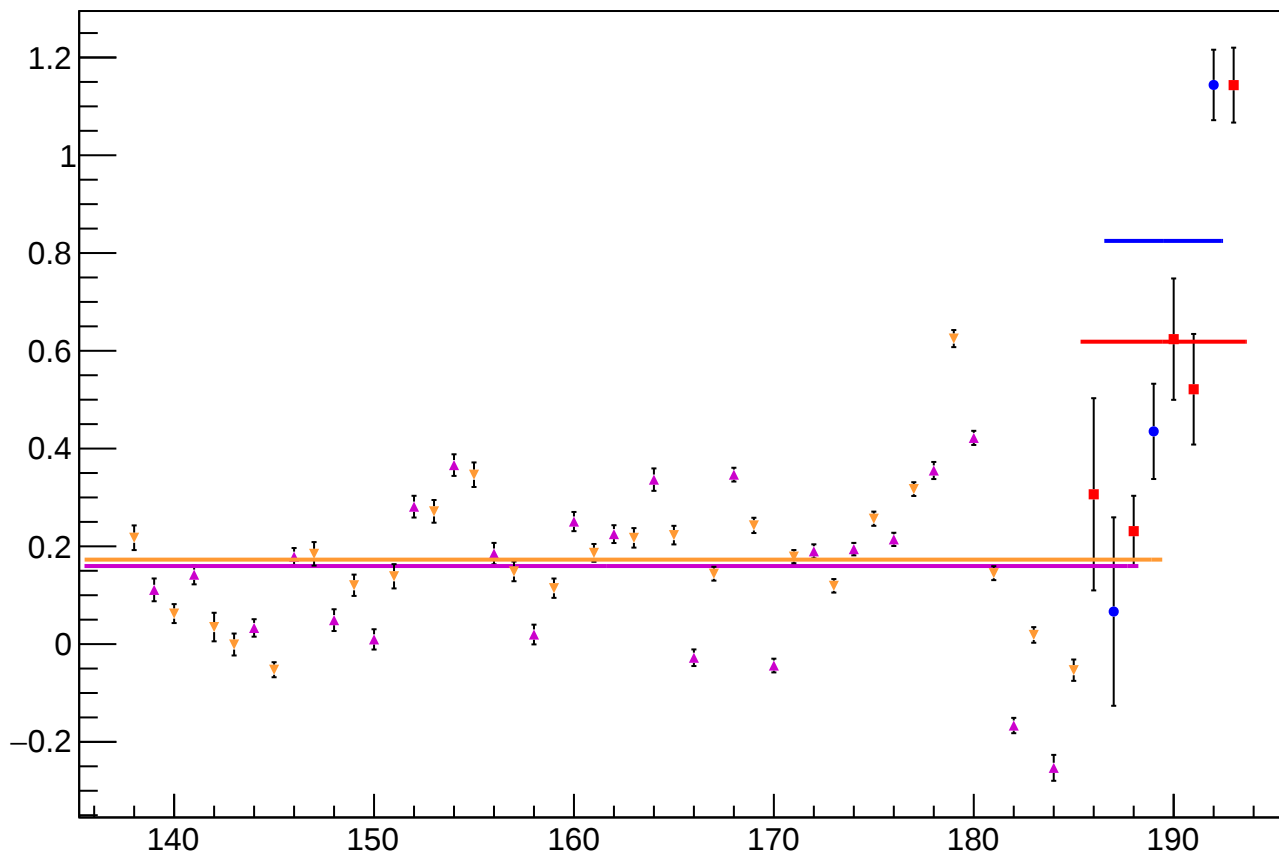
Right In: -20.177 ± 1.464 $\chi^2/\text{NDF}: 37.7/2$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -24.532 ± 1.087 $\chi^2/\text{NDF}: 127.3/4$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -22.983 ± 0.873 $\chi^2/\text{NDF}: 170.7/7$

In: -28.635 ± 0.080 $\chi^2/\text{NDF}: 6741.3/25$
 Out: -29.154 ± 0.078 $\chi^2/\text{NDF}: 9226.8/29$

All: -28.900 ± 0.056 $\chi^2/\text{NDF}: 15989.8/55$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.825 ± 0.055 $\chi^2/\text{NDF}: 51.1/2$

Left Out: 0.173 ± 0.004 $\chi^2/\text{NDF}: 1478.5/24$

Right Out: 0.619 ± 0.043 $\chi^2/\text{NDF}: 78.9/4$

Left In: 0.160 ± 0.004 $\chi^2/\text{NDF}: 2057.9/22$

Left: 0.166 ± 0.003 $\chi^2/\text{NDF}: 3542.9/47$

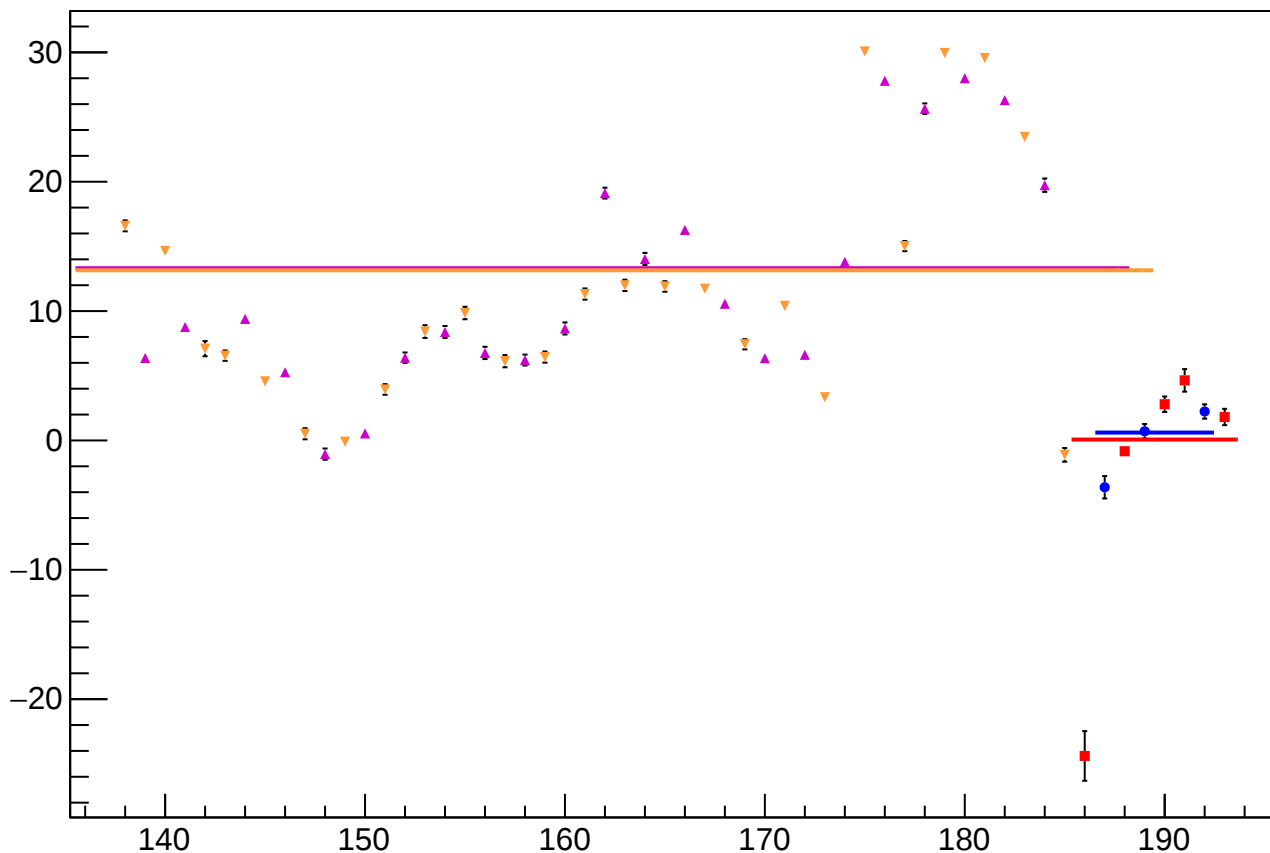
Right: 0.697 ± 0.034 $\chi^2/\text{NDF}: 138.5/7$

In: 0.163 ± 0.004 $\chi^2/\text{NDF}: 2252.1/25$

Out: 0.176 ± 0.004 $\chi^2/\text{NDF}: 1662.0/29$

All: 0.169 ± 0.003 $\chi^2/\text{NDF}: 3920.8/55$

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.610 $\pm$ 0.360 χ^2 /NDF: 32.4/2

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.069 $\pm$ 0.227 χ^2 /NDF: 228.7/4

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

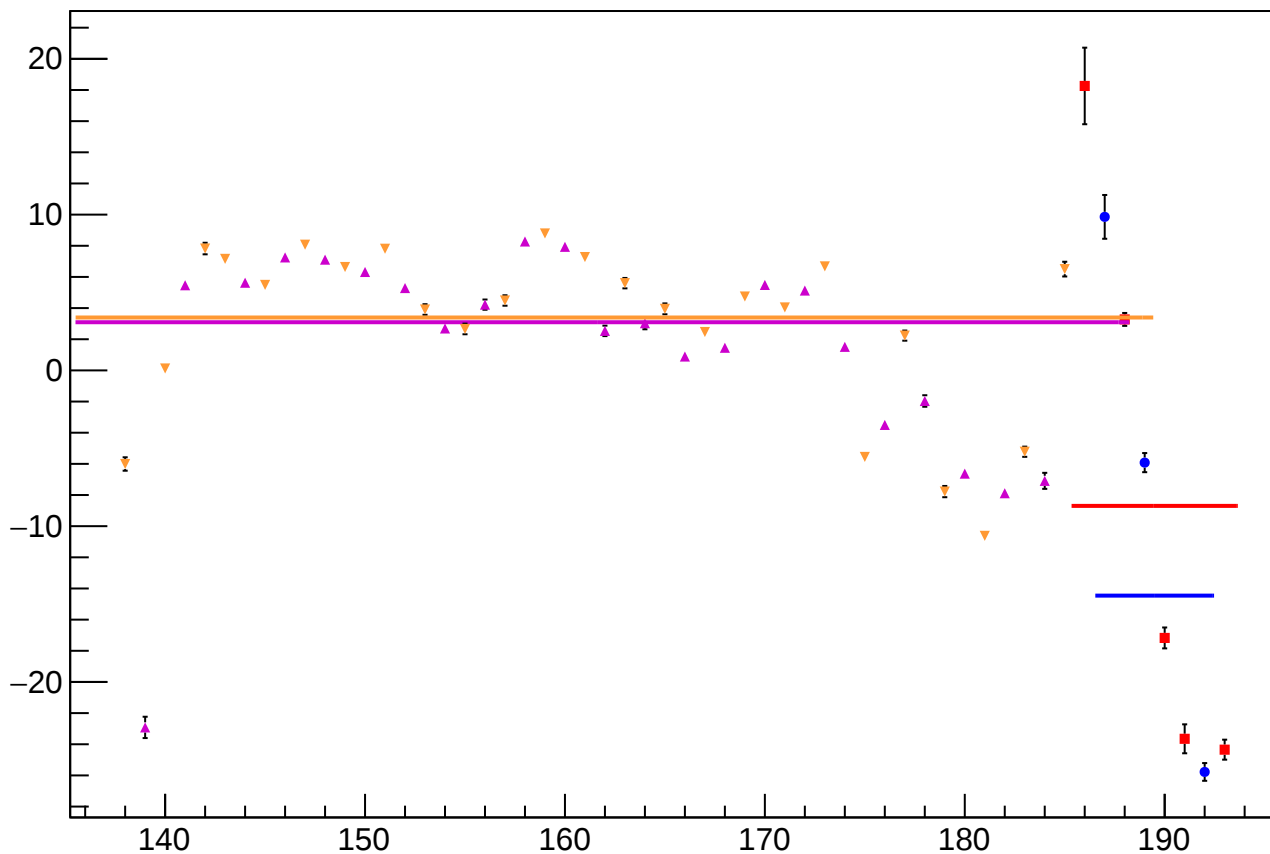
Right: 0.223 $\pm$ 0.192 χ^2 /NDF: 262.8/7

In: 12.757 $\pm$ 0.075 χ^2 /NDF:15203.6/25

Out: 11.855 $\pm$ 0.071 χ^2 /NDF:20310.8/29

All: 12.281 $\pm$ 0.052 χ^2 /NDF: 35589.9/55

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -14.458 ± 0.400 $\chi^2/\text{NDF}: 888.3/2$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -8.698 ± 0.291 $\chi^2/\text{NDF}: 1968.2/4$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

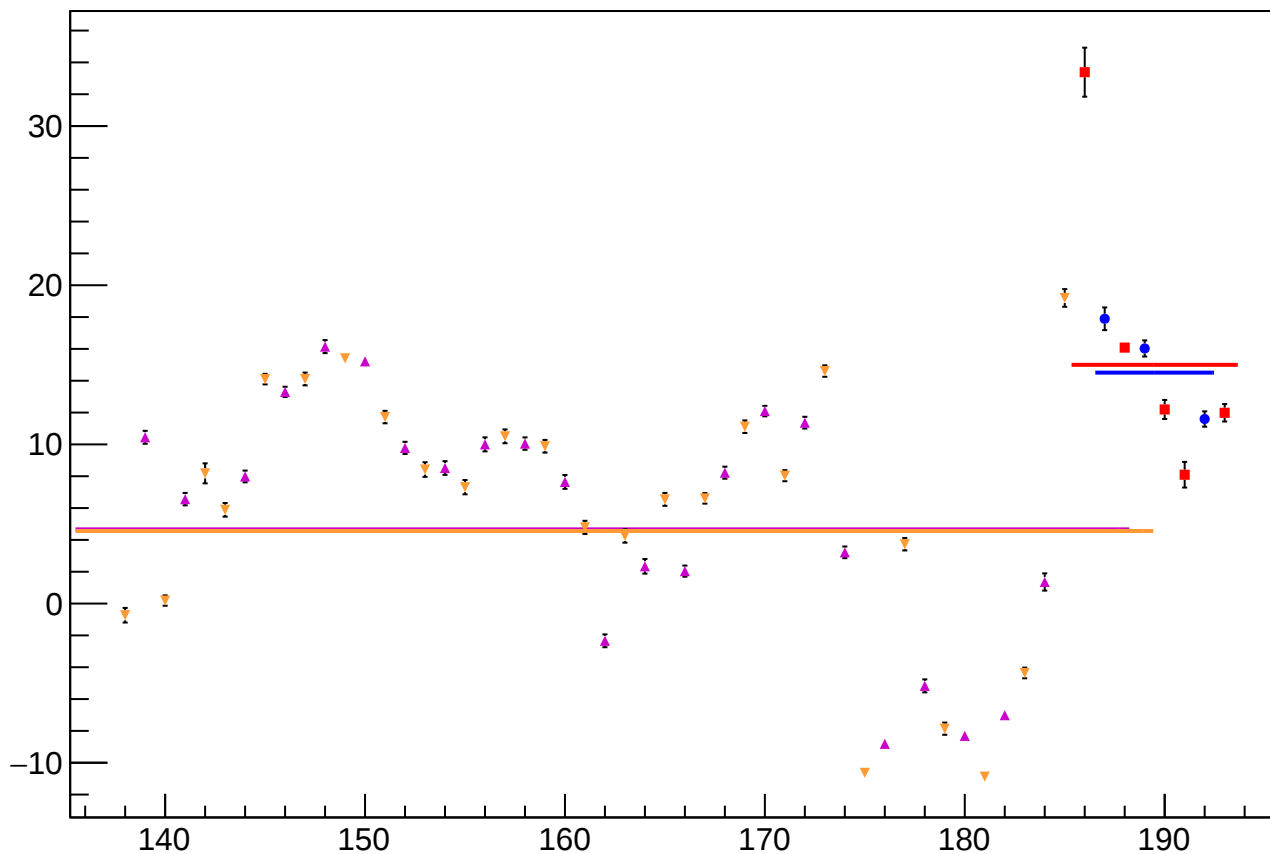
Right: -10.692 ± 0.235 $\chi^2/\text{NDF}: 2992.0/7$

In: 2.699 ± 0.060 $\chi^2/\text{NDF}: 9873.8/25$

Out: 2.928 ± 0.057 $\chi^2/\text{NDF}: 11728.4/29$

All: 2.819 ± 0.041 $\chi^2/\text{NDF}: 21609.9/55$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.509+/-0.314 χ^2/NDF : 68.0/2

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 14.998+/-0.192 χ^2/NDF : 290.1/4

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

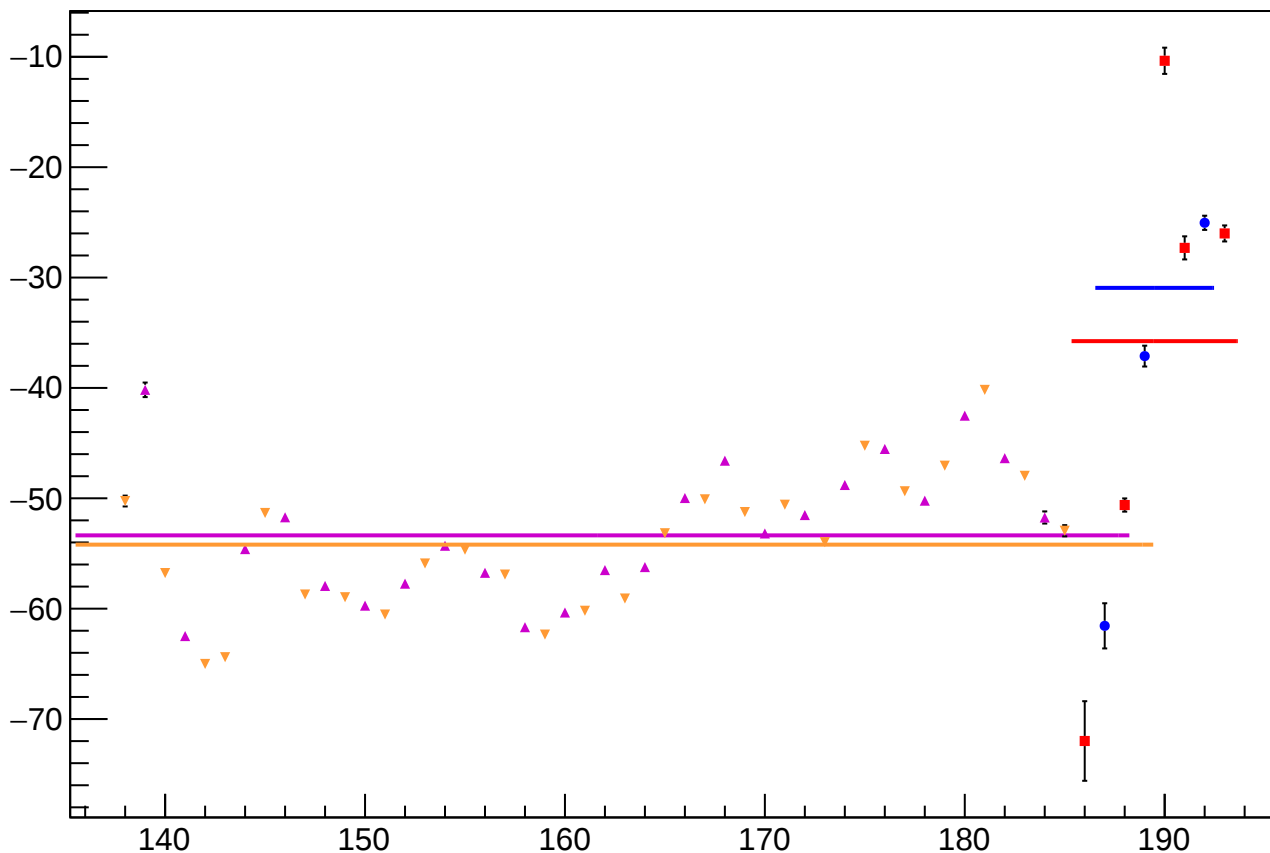
Right: 14.865+/-0.164 χ^2/NDF : 359.9/7

In: 5.219+/-0.075 χ^2/NDF :12278.5/25

Out: 5.958+/-0.070 χ^2/NDF :16448.5/29

All: 5.611+/-0.051 χ^2/NDF : 28779.2/55

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.934 ± 0.515 $\chi^2/\text{NDF}: 350.6/2$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -35.761 ± 0.396 $\chi^2/\text{NDF}: 1417.9/4$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

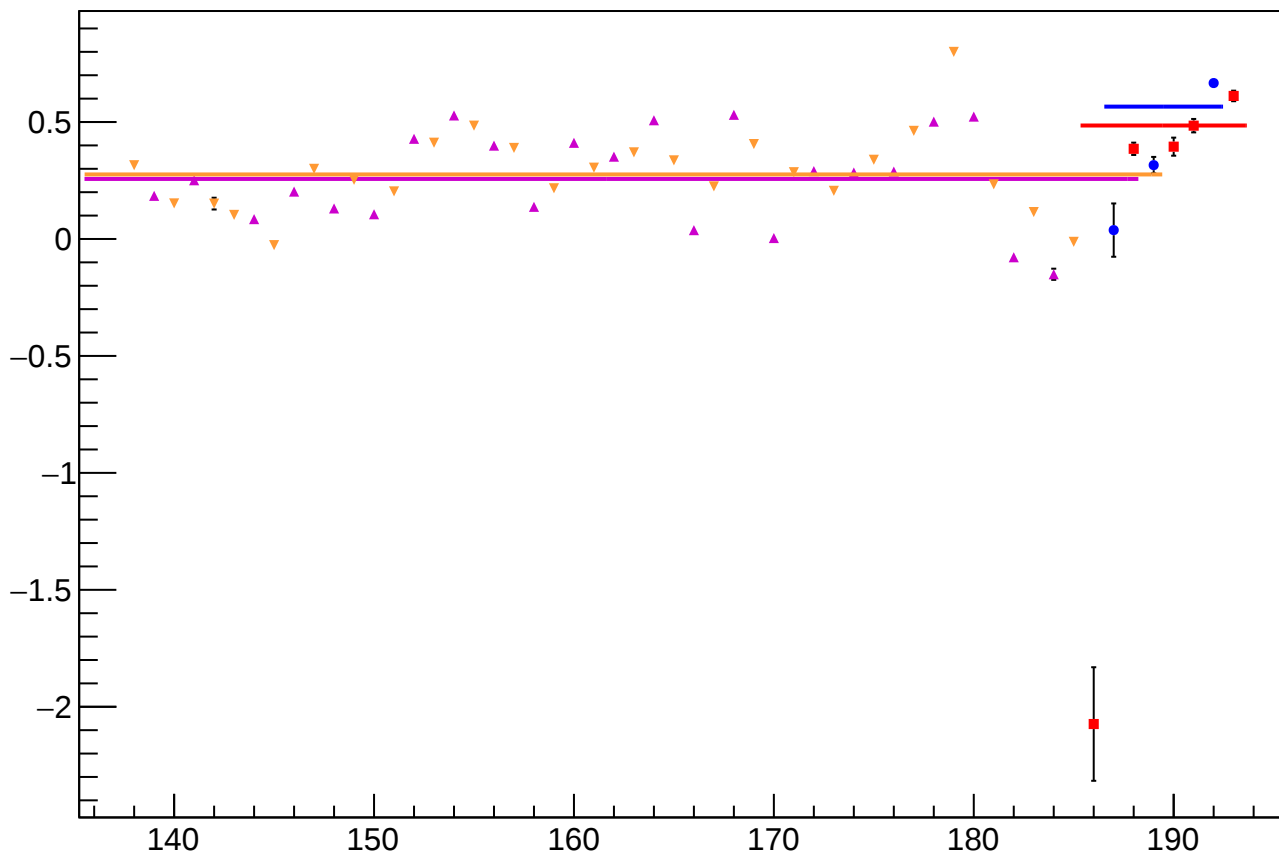
Right: -33.967 ± 0.314 $\chi^2/\text{NDF}: 1823.7/7$

In: -52.969 ± 0.068 $\chi^2/\text{NDF}: 9097.2/25$

Out: -53.695 ± 0.065 $\chi^2/\text{NDF}: 11981.7/29$

All: -53.345 ± 0.047 $\chi^2/\text{NDF}: 21138.2/55$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.566 $\pm$ 0.017 χ^2 /NDF: 96.7/2

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.485 $\pm$ 0.014 χ^2 /NDF: 162.3/4

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

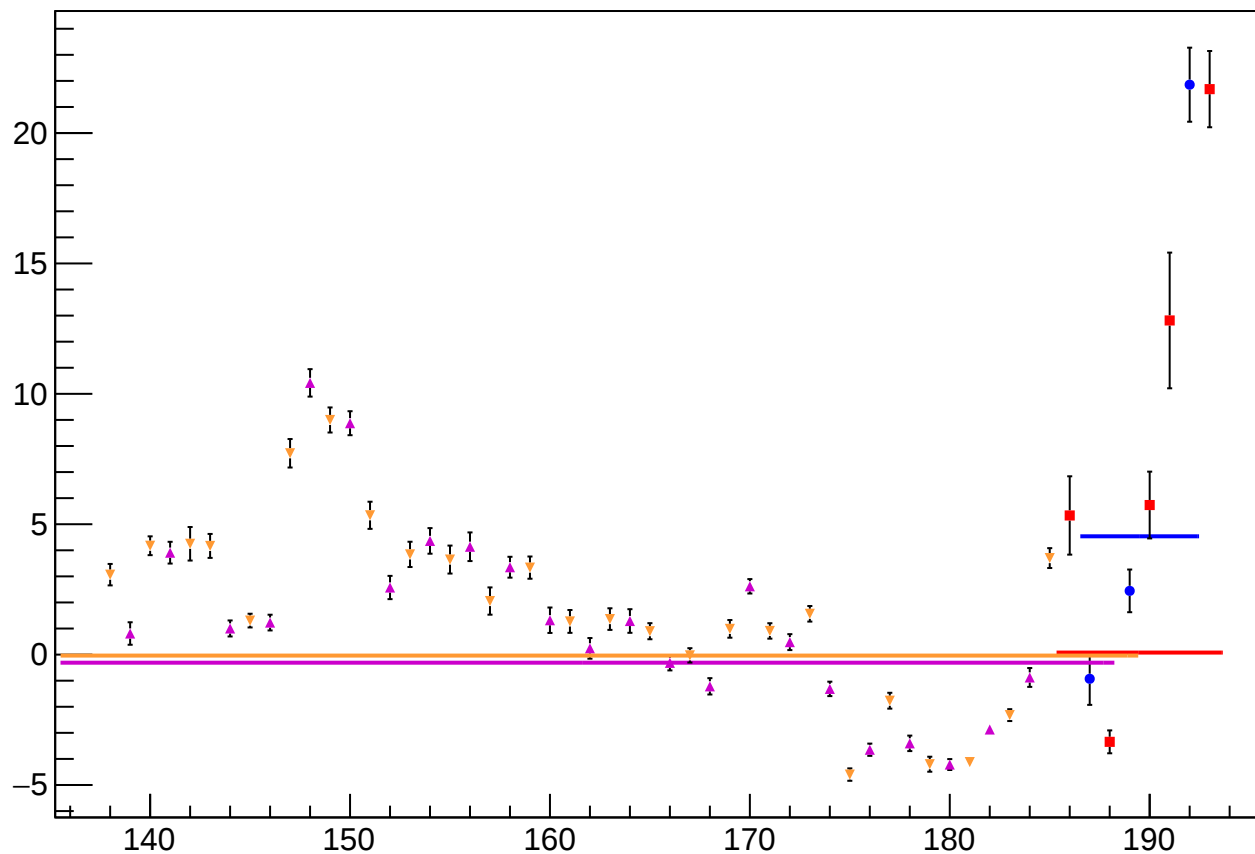
Right: 0.516 $\pm$ 0.011 χ^2 /NDF: 272.3/7

In: 0.266 $\pm$ 0.003 χ^2 /NDF:4026.7/25

Out: 0.286 $\pm$ 0.003 χ^2 /NDF:3007.3/29

All: 0.276 $\pm$ 0.002 χ^2 /NDF: 7055.0/55

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.537 ± 0.578 $\chi^2/\text{NDF}: 185.1/2$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 0.078 ± 0.382 $\chi^2/\text{NDF}: 335.0/4$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

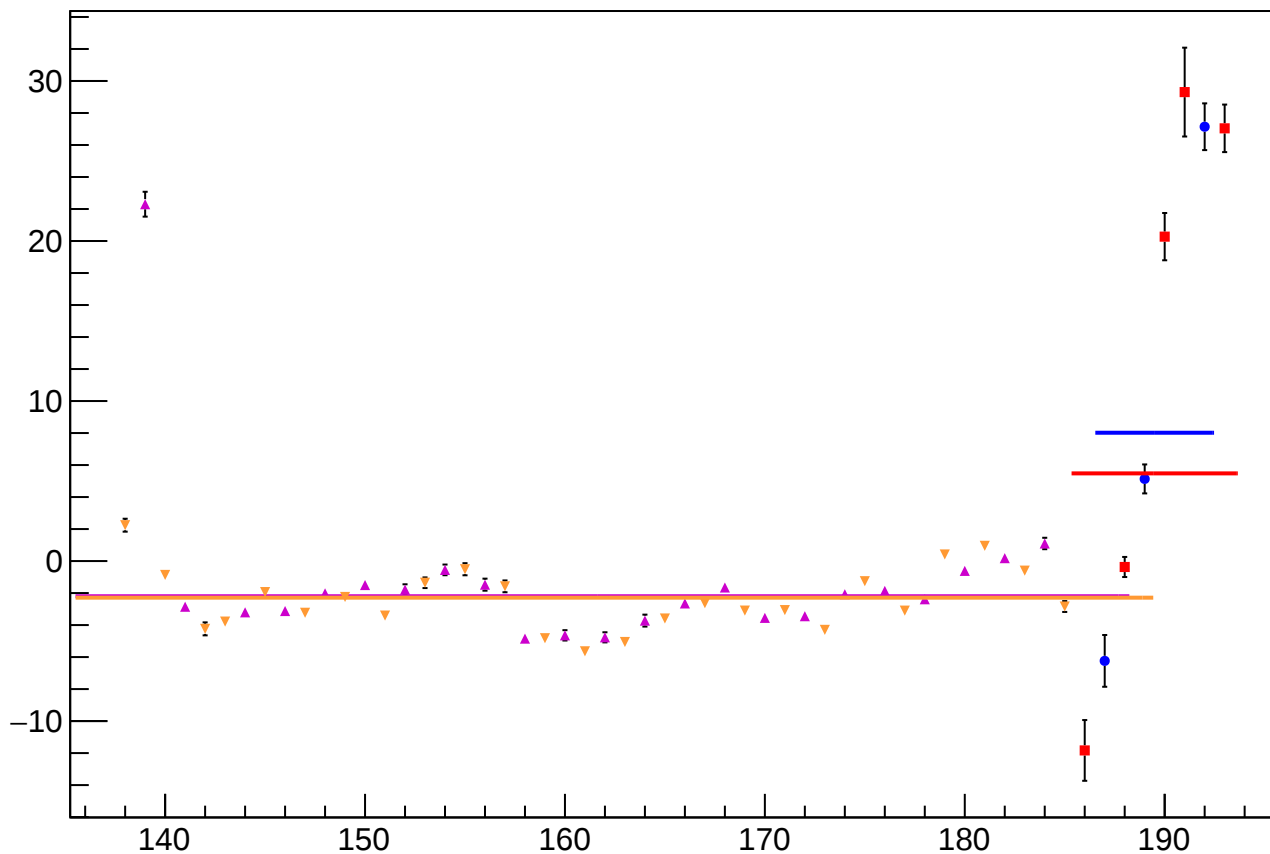
Right: 1.431 ± 0.319 $\chi^2/\text{NDF}: 561.5/7$

In: -0.245 ± 0.067 $\chi^2/\text{NDF}: 2504.8/25$

Out: -0.034 ± 0.065 $\chi^2/\text{NDF}: 2972.7/29$

All: -0.137 ± 0.047 $\chi^2/\text{NDF}: 5482.7/55$

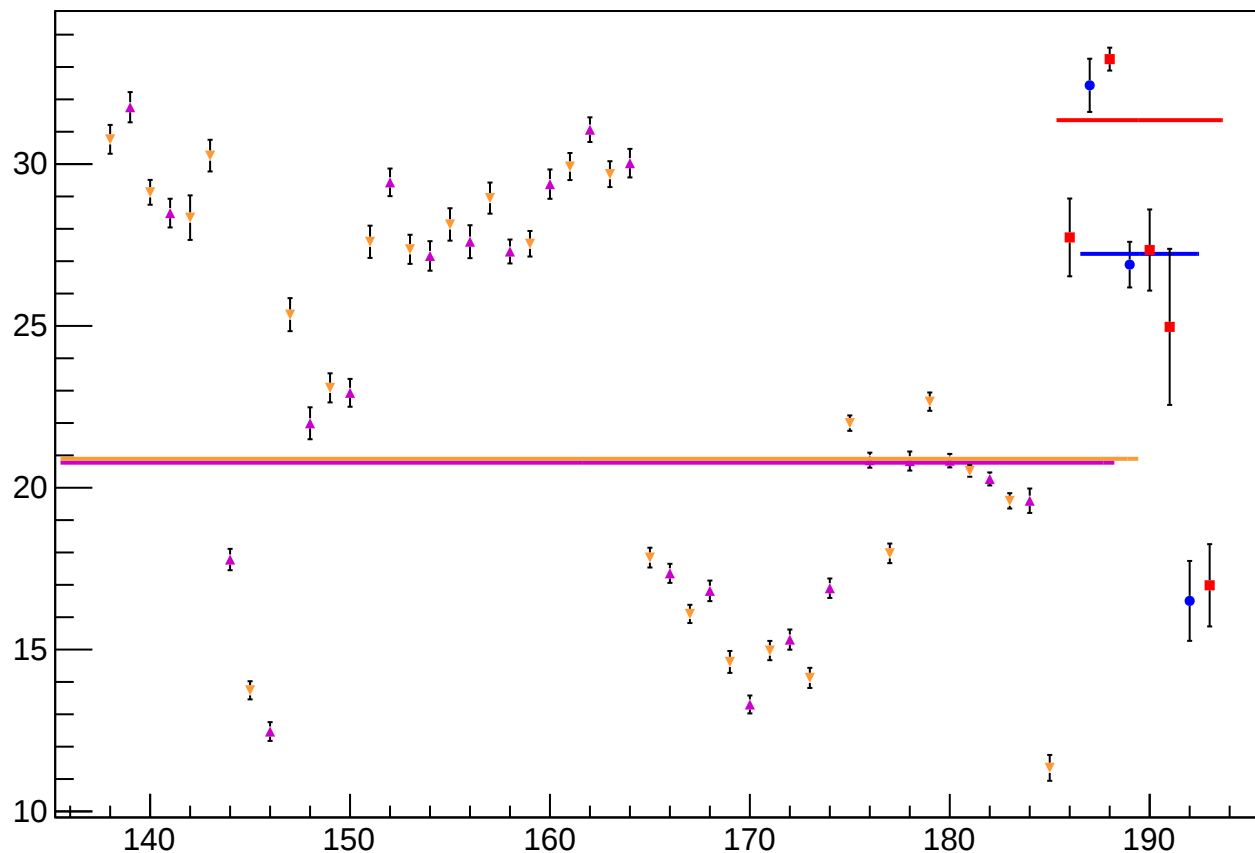
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.019 ± 0.695 $\chi^2/\text{NDF}: 259.3/2$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 5.479 ± 0.509 $\chi^2/\text{NDF}: 554.7/4$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 6.366 ± 0.411 $\chi^2/\text{NDF}: 822.8/7$
 In: -2.134 ± 0.055 $\chi^2/\text{NDF}: 2148.1/25$
 Out: -2.201 ± 0.054 $\chi^2/\text{NDF}: 1922.4/29$
 All: -2.168 ± 0.038 $\chi^2/\text{NDF}: 4071.3/55$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.227 $\pm$ 0.491 χ^2 /NDF: 115.8/2

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 31.357 $\pm$ 0.315 χ^2 /NDF: 182.6/4

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

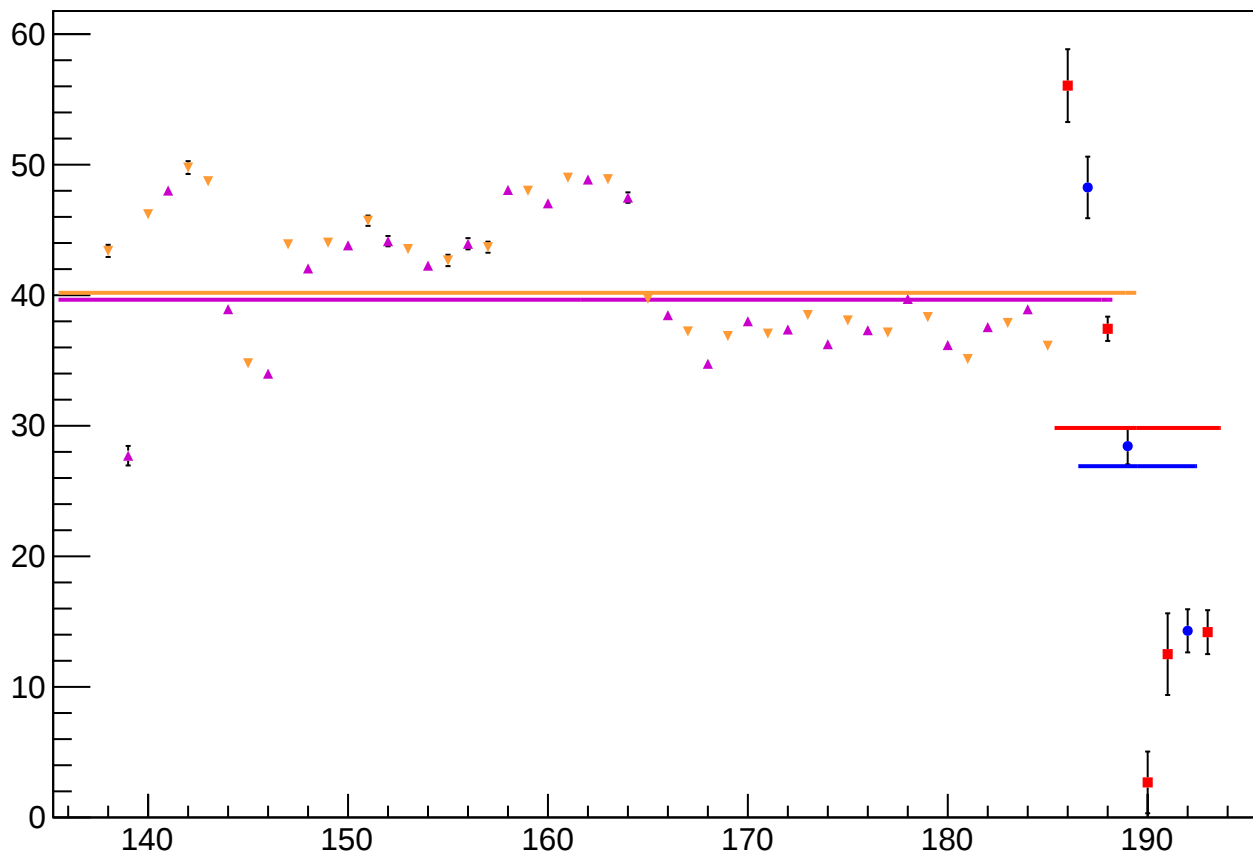
Right: 30.155 $\pm$ 0.265 χ^2 /NDF: 348.5/7

In: 20.894 $\pm$ 0.067 χ^2 /NDF:6213.2/25

Out: 21.344 $\pm$ 0.065 χ^2 /NDF:7896.3/29

All: 21.125 $\pm$ 0.047 χ^2 /NDF: 14132.6/55

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 26.905 $\pm$ 0.974 χ^2 /NDF: 141.5/2

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 29.834 $\pm$ 0.722 χ^2 /NDF: 404.0/4

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

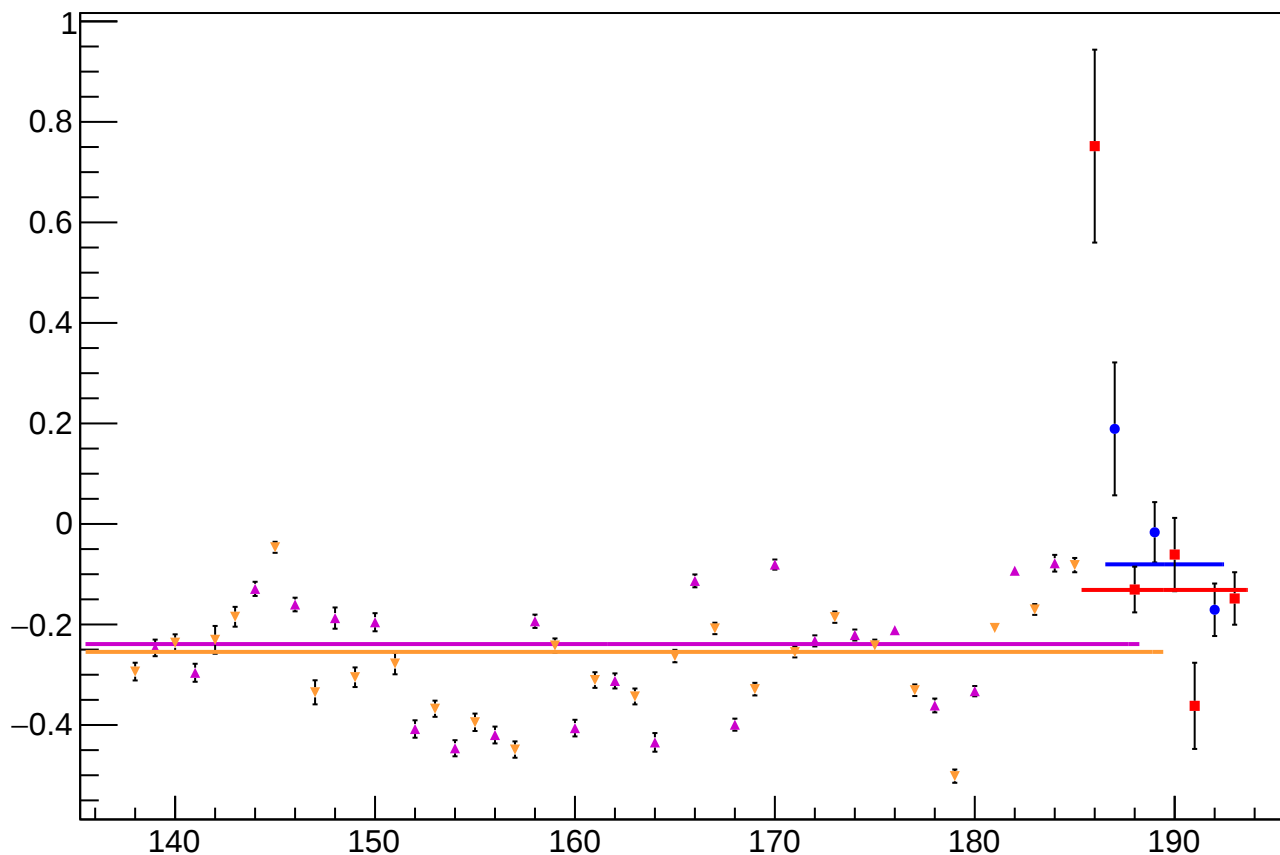
Right: 28.795 $\pm$ 0.580 χ^2 /NDF: 551.3/7

In: 39.605 $\pm$ 0.061 χ^2 /NDF: 5610.8/25

Out: 40.114 $\pm$ 0.060 χ^2 /NDF: 6540.9/29

All: 39.864 $\pm$ 0.043 χ^2 /NDF: 12187.0/55

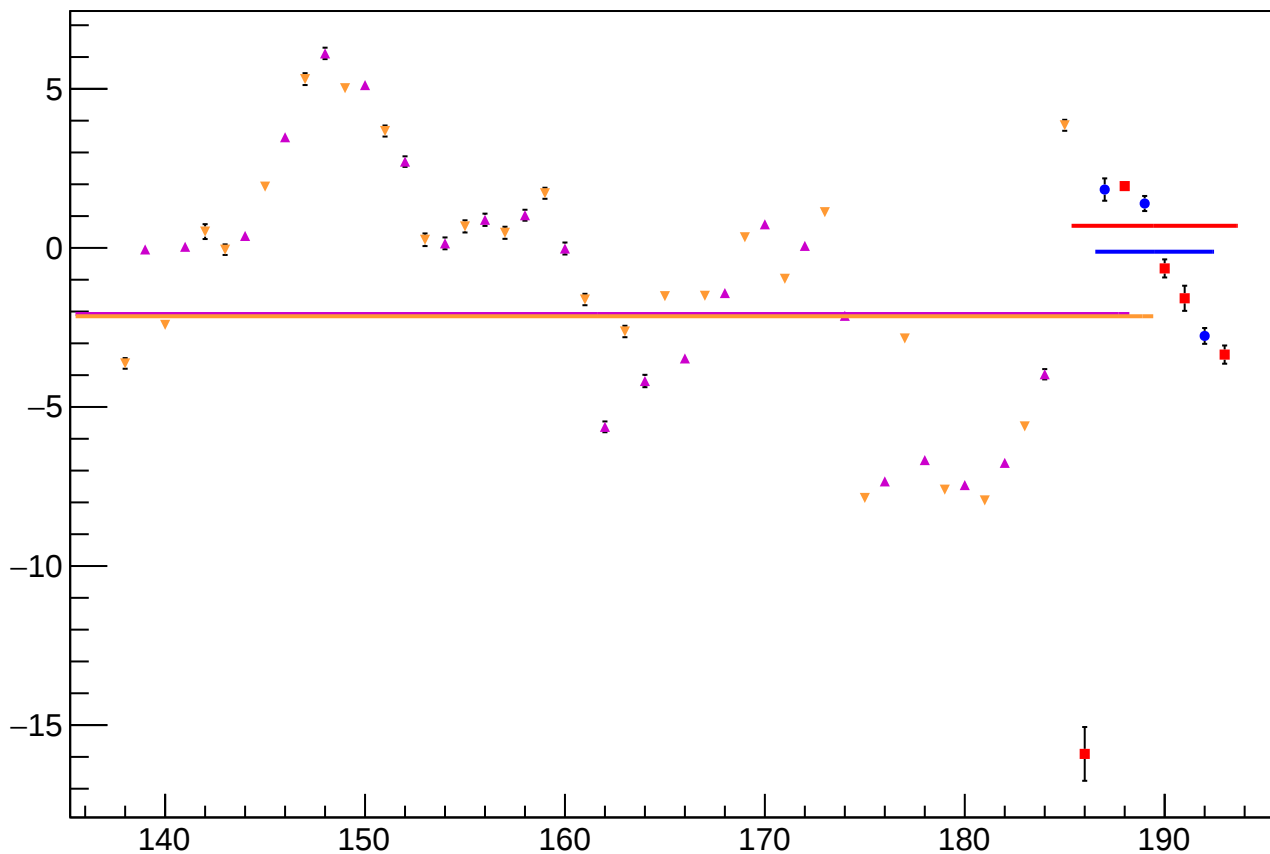
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.080 ± 0.038 χ^2/NDF : 8.3/2
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.131 ± 0.029 χ^2/NDF : 29.4/4
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.113 ± 0.023 χ^2/NDF : 38.9/7
 In: -0.238 ± 0.003 χ^2/NDF : 1776.3/25
 Out: -0.253 ± 0.003 χ^2/NDF : 1468.0/29
 All: -0.246 ± 0.002 χ^2/NDF : 3259.7/55

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

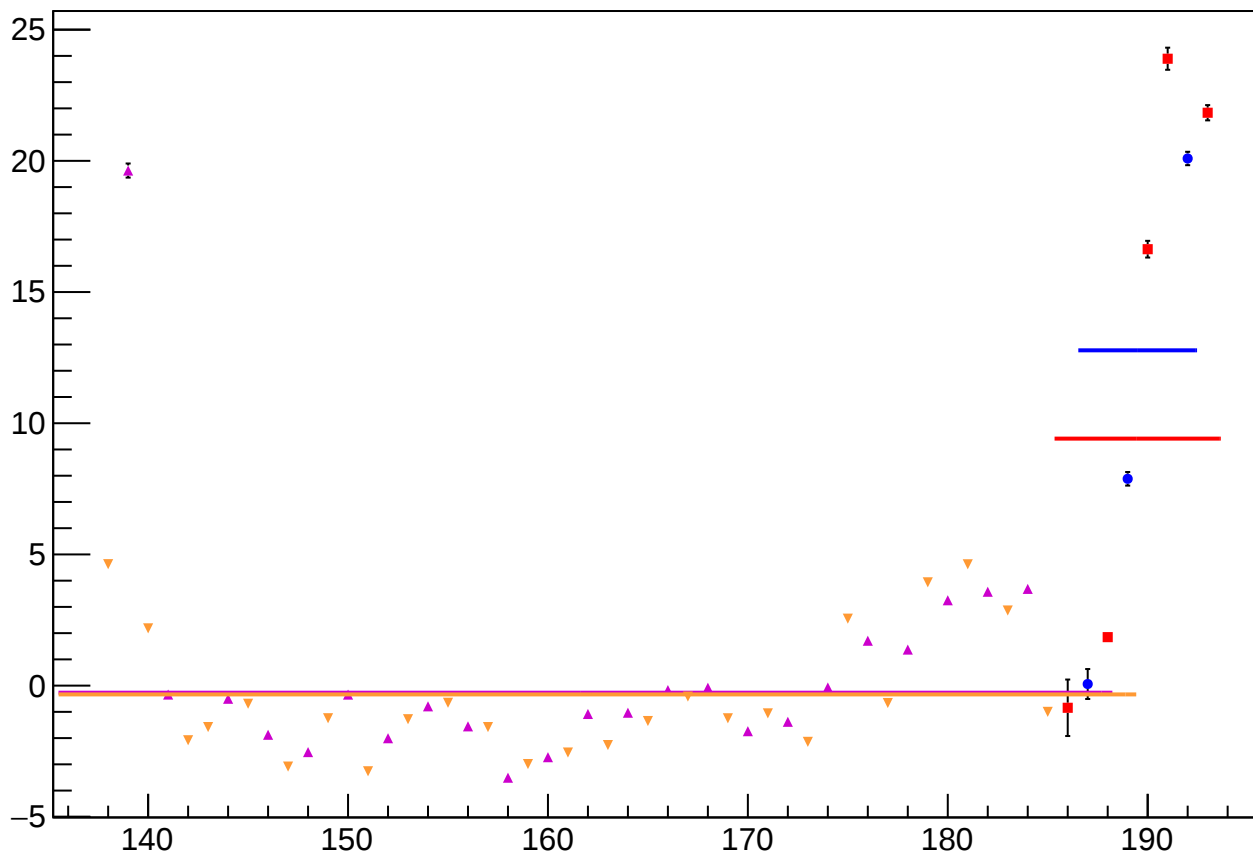


Right In: -0.119 ± 0.154 χ^2/NDF : 184.9/2
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: 0.695 ± 0.093 χ^2/NDF : 770.6/4
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: 0.478 ± 0.080 χ^2/NDF : 975.9/7
 In: -2.024 ± 0.026 χ^2/NDF : 23587.4/25
 Out: -1.948 ± 0.025 χ^2/NDF : 26175.1/29

All: -1.984 ± 0.018 χ^2/NDF : 49767.0/55

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



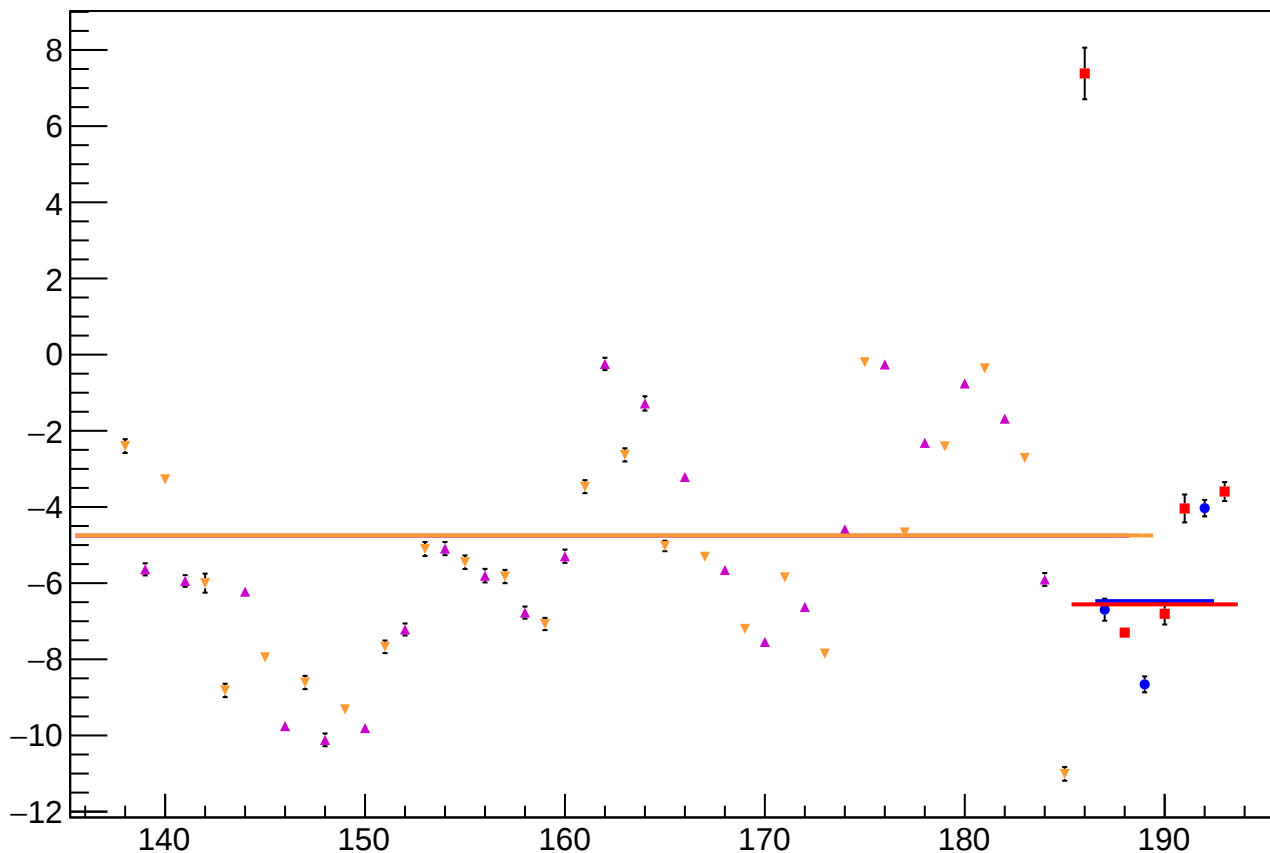
Right In: 12.779 $\pm$ 0.173 χ^2 /NDF: 1672.2/2
 Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24
 Right Out: 9.414 $\pm$ 0.123 χ^2 /NDF: 5803.4/4
 Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47
 Right: 10.536 $\pm$ 0.100 χ^2 /NDF: 7726.7/7

In: -0.082 $\pm$ 0.021 χ^2 /NDF:20579.7/25
 Out: -0.068 $\pm$ 0.020 χ^2 /NDF:24551.1/29

All: -0.075 $\pm$ 0.015 χ^2 /NDF: 45131.0/55

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



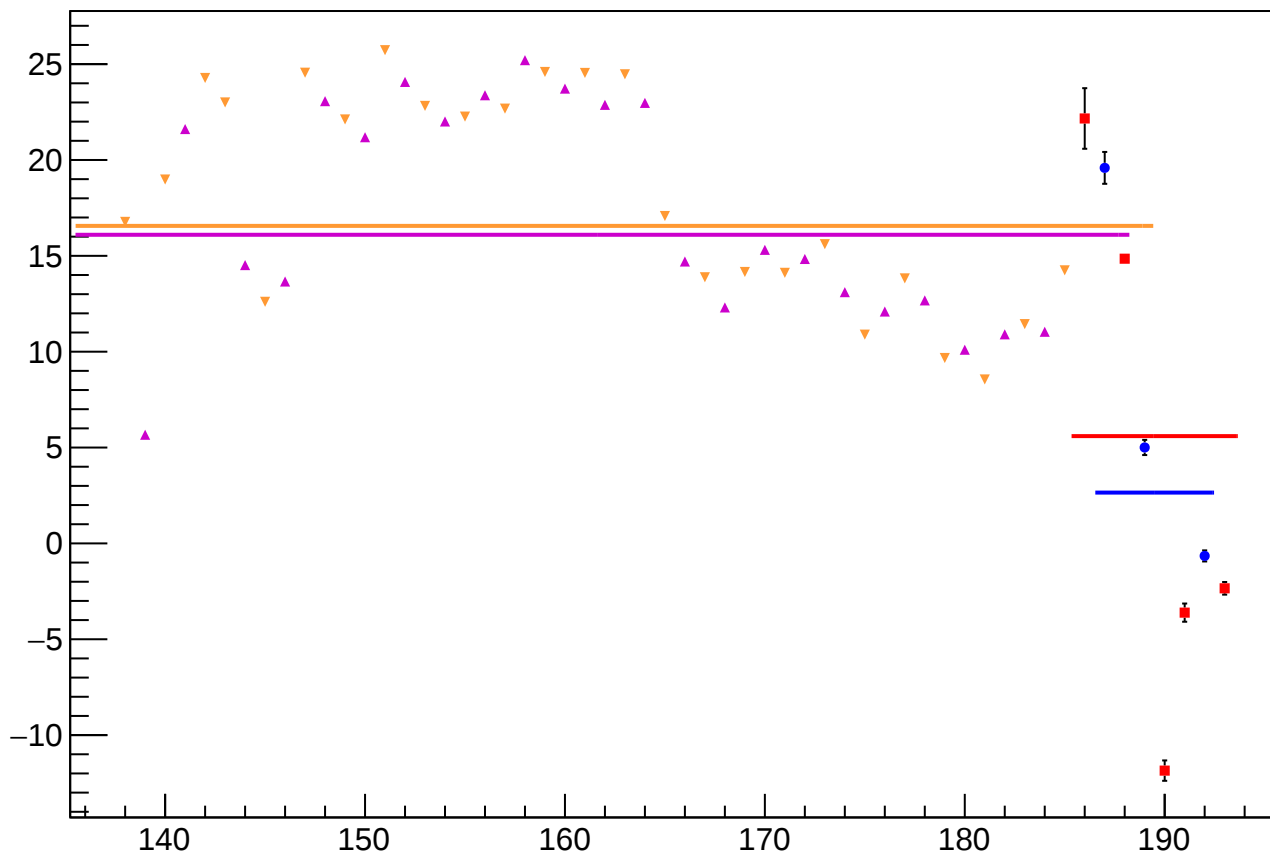
Right In: -6.473+/-0.134 χ^2/NDF : 235.9/2
 Left Out: -4.748+/-0.026 χ^2/NDF :13289.8/24
 Right Out: -6.558+/-0.078 χ^2/NDF : 683.0/4
 Left In: -4.753+/-0.026 χ^2/NDF :14119.2/22

Left: -4.751+/-0.018 χ^2/NDF : 27409.0/47
 Right: -6.536+/-0.067 χ^2/NDF : 919.2/7

In: -4.816+/-0.026 χ^2/NDF :14514.3/25
 Out: -4.927+/-0.025 χ^2/NDF :14459.3/29

All: -4.874+/-0.018 χ^2/NDF : 28983.4/55

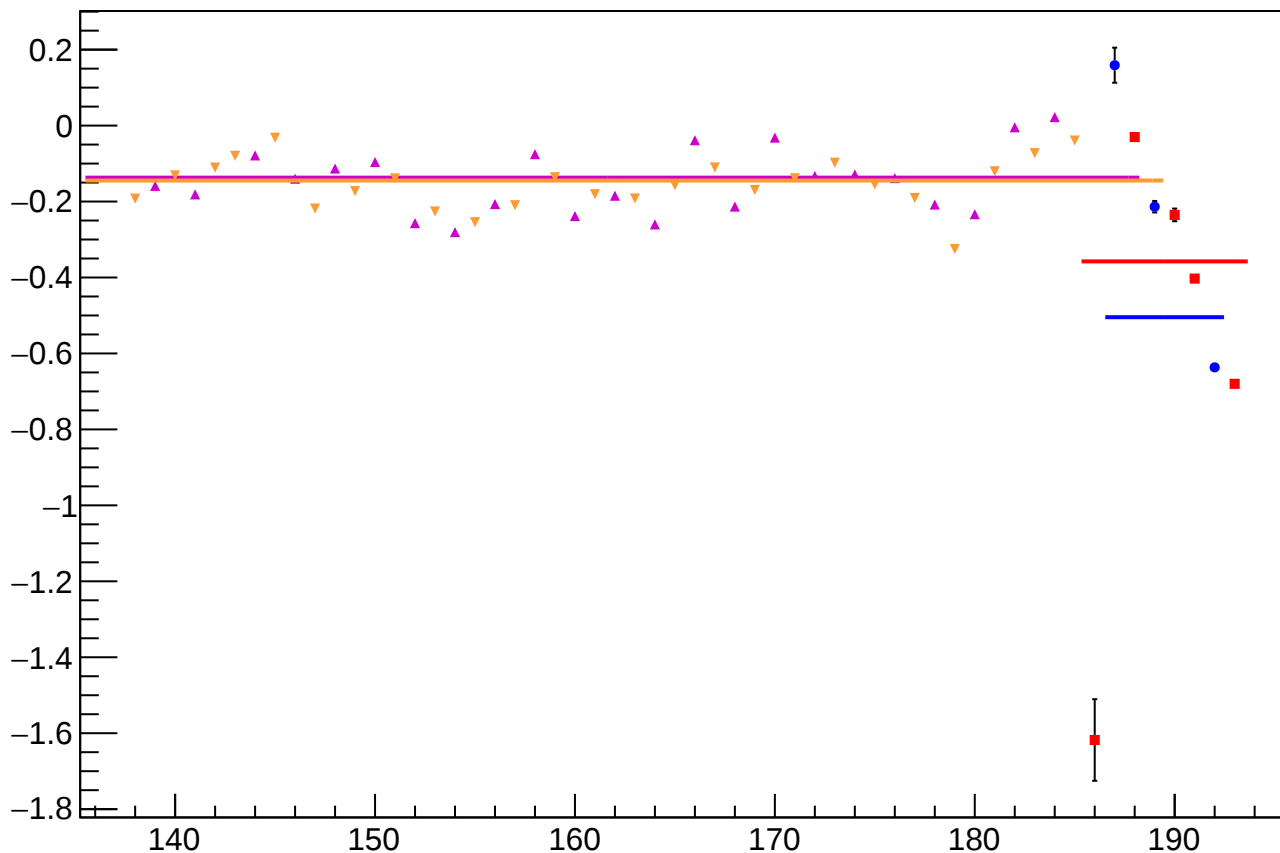
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.650 ± 0.225 $\chi^2/\text{NDF}: 581.3/2$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 5.596 ± 0.167 $\chi^2/\text{NDF}: 3709.6/4$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 4.548 ± 0.134 $\chi^2/\text{NDF}: 4401.7/7$
 In: 15.952 ± 0.023 $\chi^2/\text{NDF}: 46471.0/25$
 Out: 16.356 ± 0.023 $\chi^2/\text{NDF}: 61798.9/29$
 All: 16.158 ± 0.016 $\chi^2/\text{NDF}: 108421.8/55$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.505 ± 0.008 χ^2/NDF : 785.7/2

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.358 ± 0.006 χ^2/NDF : 2184.6/4

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

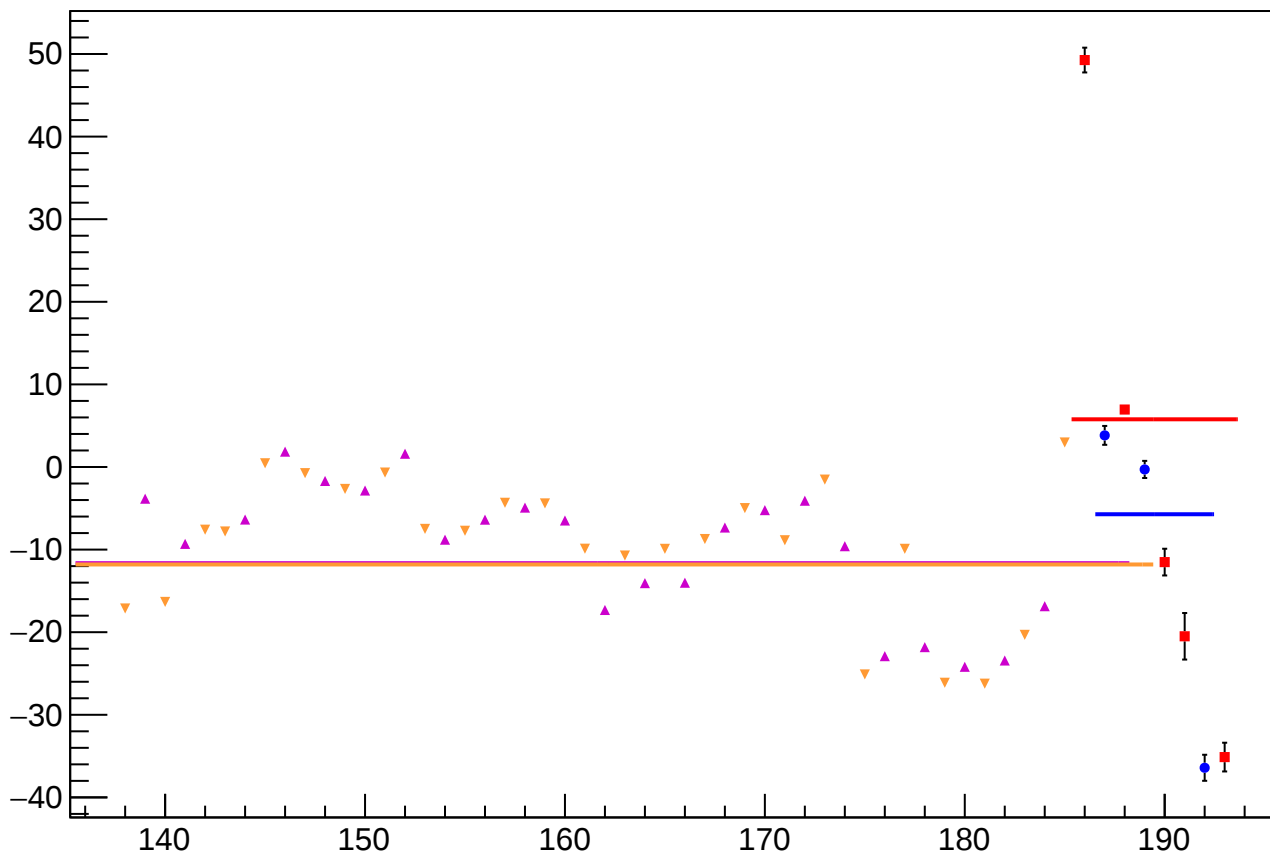
Right: -0.412 ± 0.005 χ^2/NDF : 3198.3/7

In: -0.144 ± 0.001 χ^2/NDF : 8407.1/25

Out: -0.151 ± 0.001 χ^2/NDF : 7200.1/29

All: -0.148 ± 0.001 χ^2/NDF : 15630.2/55

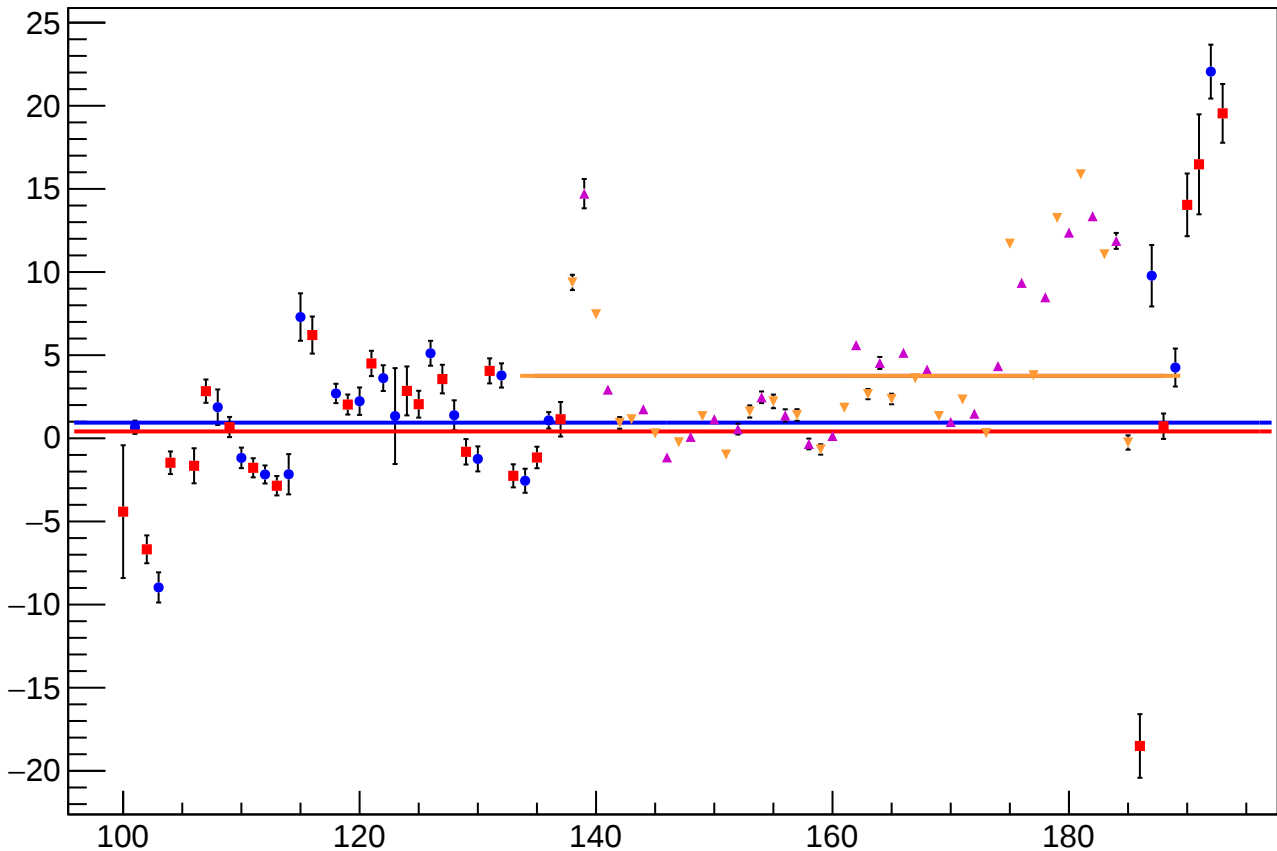
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.720 $\pm$ 0.690 χ^2 /NDF: 476.5/2
 Left Out: -11.801 $\pm$ 0.070 χ^2 /NDF:17308.2/24
 Right Out: 5.774 $\pm$ 0.459 χ^2 /NDF: 1599.9/4
 Left In: -11.642 $\pm$ 0.072 χ^2 /NDF:14121.2/22

Left: -11.723 $\pm$ 0.050 χ^2 /NDF: 31432.0/47
 Right: 2.253 $\pm$ 0.382 χ^2 /NDF: 2268.7/7
 In: -11.579 $\pm$ 0.071 χ^2 /NDF:14670.6/25
 Out: -11.398 $\pm$ 0.069 χ^2 /NDF:20342.5/29
 All: -11.486 $\pm$ 0.050 χ^2 /NDF: 35016.4/55

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.943 ± 0.167 χ^2/NDF : 494.7/19

Left Out: 3.757 ± 0.056 χ^2/NDF : 7450.7/24

Right Out: 0.413 ± 0.168 χ^2/NDF : 568.5/23

Left In: 3.757 ± 0.057 χ^2/NDF : 5629.4/22

Left: 3.757 ± 0.040 χ^2/NDF : 13080.0/47

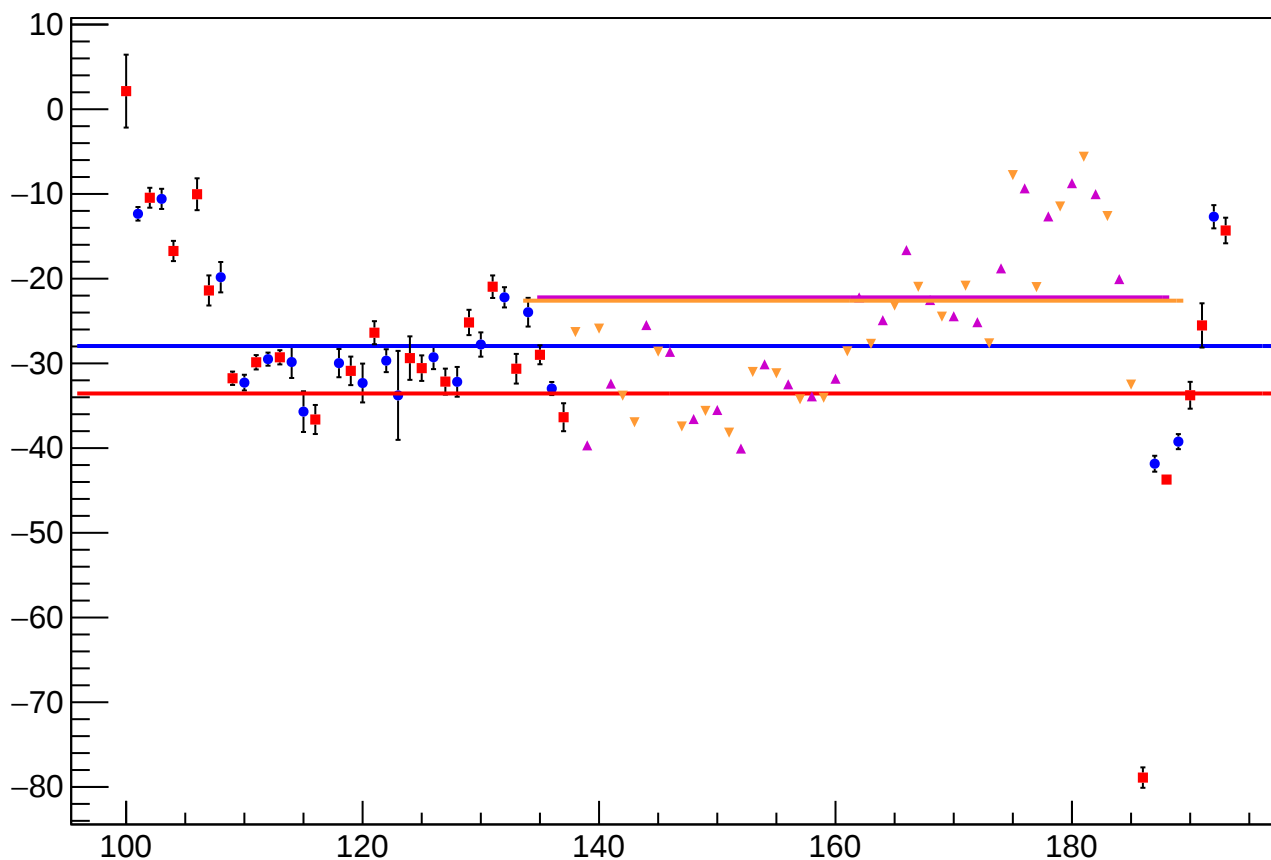
Right: 0.680 ± 0.118 χ^2/NDF : 1068.1/43

In: 3.467 ± 0.054 χ^2/NDF : 6378.7/42

Out: 3.428 ± 0.053 χ^2/NDF : 8375.9/48

All: 3.447 ± 0.038 χ^2/NDF : 14754.9/91

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.949 ± 0.268 $\chi^2/\text{NDF}: 1238.2/19$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -33.552 ± 0.234 $\chi^2/\text{NDF}: 3227.7/23$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

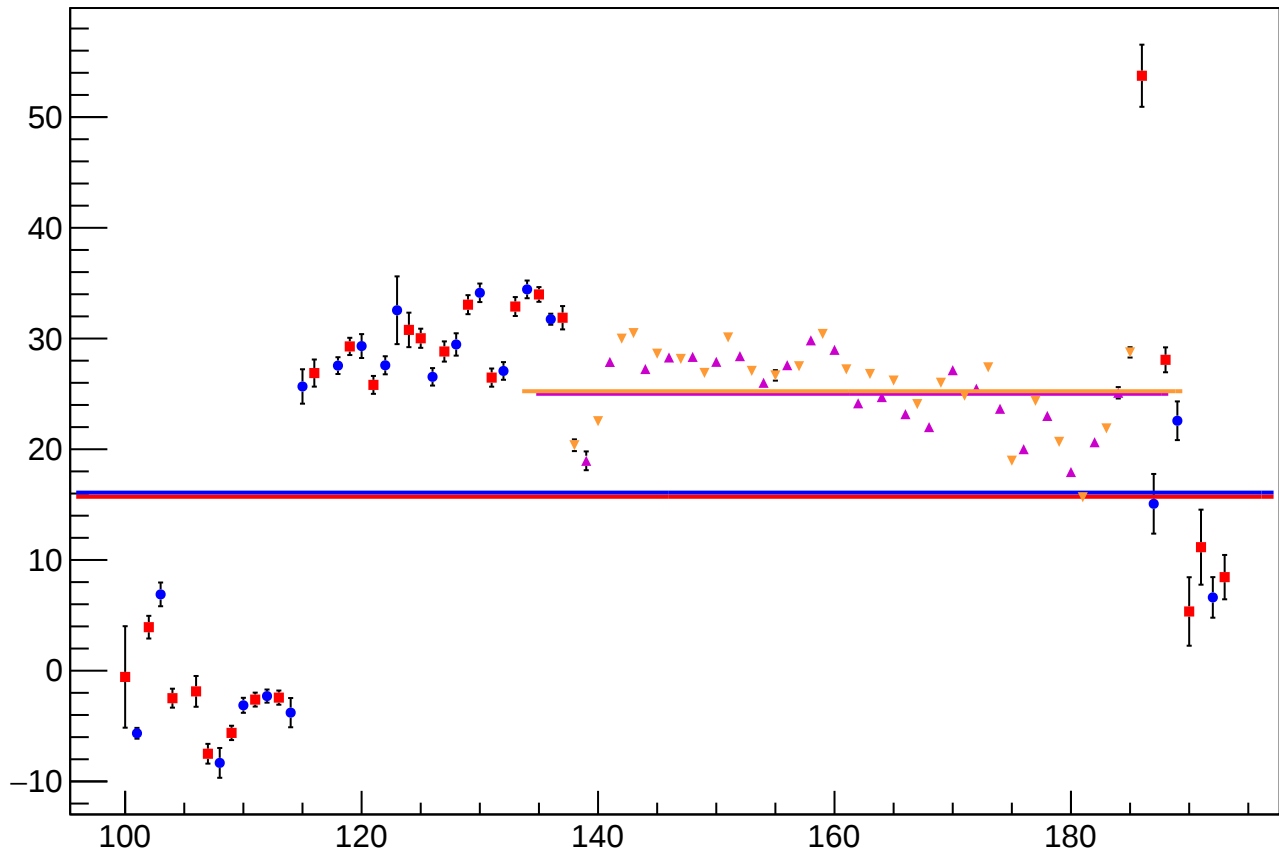
Right: -31.123 ± 0.176 $\chi^2/\text{NDF}: 4714.3/43$

In: -22.593 ± 0.069 $\chi^2/\text{NDF}: 19295.0/42$

Out: -23.514 ± 0.068 $\chi^2/\text{NDF}: 25168.1/48$

All: -23.063 ± 0.048 $\chi^2/\text{NDF}: 44553.7/91$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.084 $\pm$ 0.190 χ^2 /NDF: 7582.7/19

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.709 $\pm$ 0.192 χ^2 /NDF: 7597.1/23

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF:2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

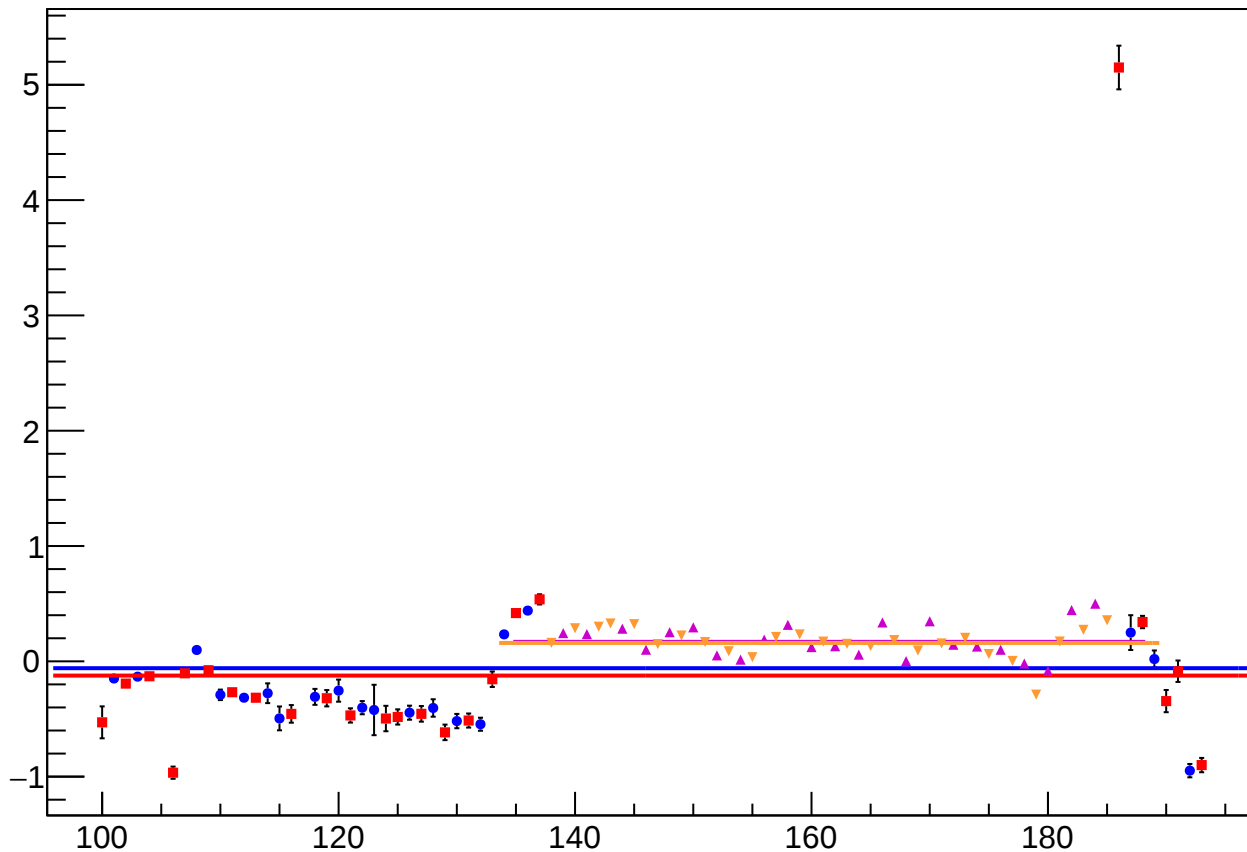
Right: 15.899 $\pm$ 0.135 χ^2 /NDF: 15181.7/43

In: 24.101 $\pm$ 0.061 χ^2 /NDF:12292.1/42

Out: 24.328 $\pm$ 0.060 χ^2 /NDF:13604.6/48

All: 24.217 $\pm$ 0.042 χ^2 /NDF: 25903.9/91

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.059 ± 0.010 $\chi^2/\text{NDF}: 1257.5/19$

Left Out: 0.159 ± 0.003 $\chi^2/\text{NDF}: 1864.2/24$

Right Out: -0.124 ± 0.010 $\chi^2/\text{NDF}: 2172.8/23$

Left In: 0.169 ± 0.003 $\chi^2/\text{NDF}: 2418.8/22$

Left: 0.164 ± 0.002 $\chi^2/\text{NDF}: 4288.4/47$

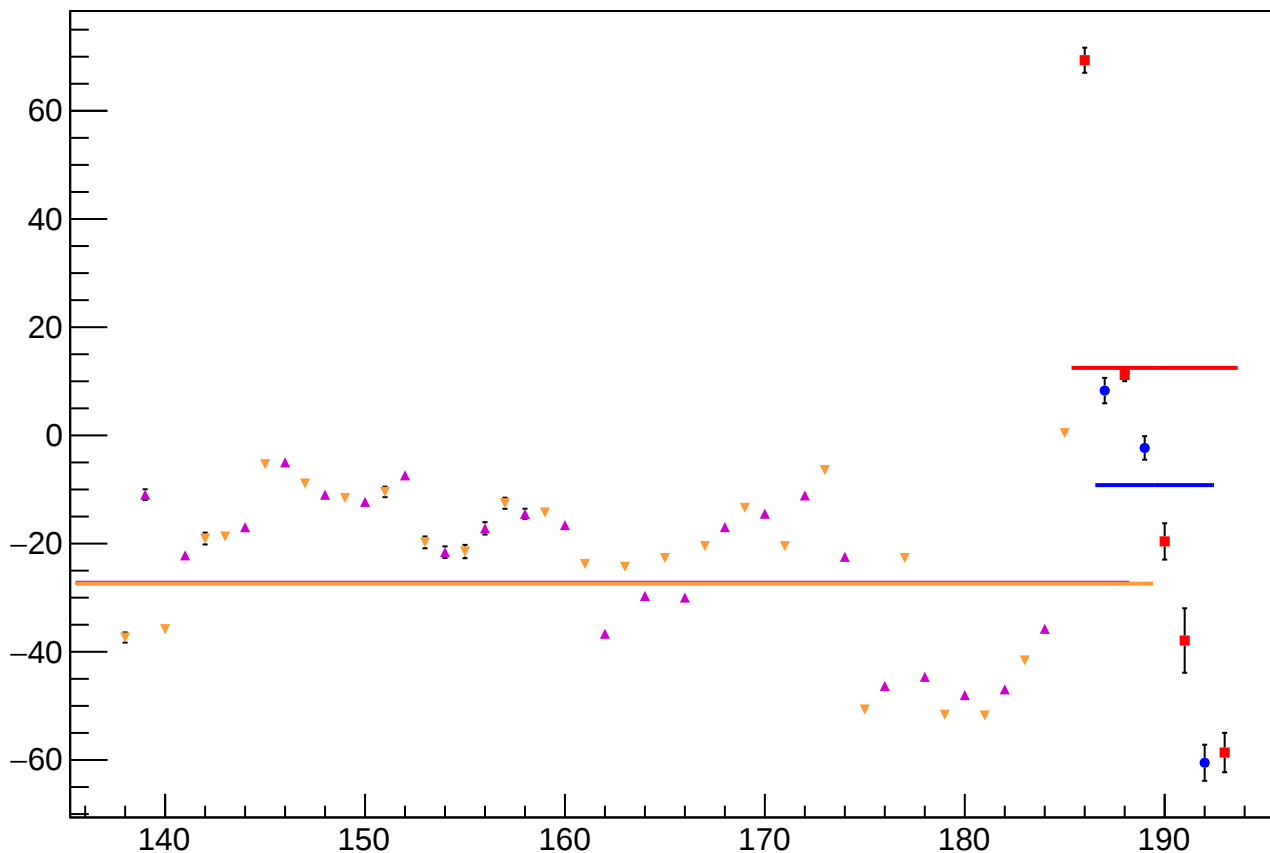
Right: -0.092 ± 0.007 $\chi^2/\text{NDF}: 3450.8/43$

In: 0.151 ± 0.003 $\chi^2/\text{NDF}: 4151.6/42$

Out: 0.138 ± 0.003 $\chi^2/\text{NDF}: 4785.7/48$

All: 0.144 ± 0.002 $\chi^2/\text{NDF}: 8949.2/91$

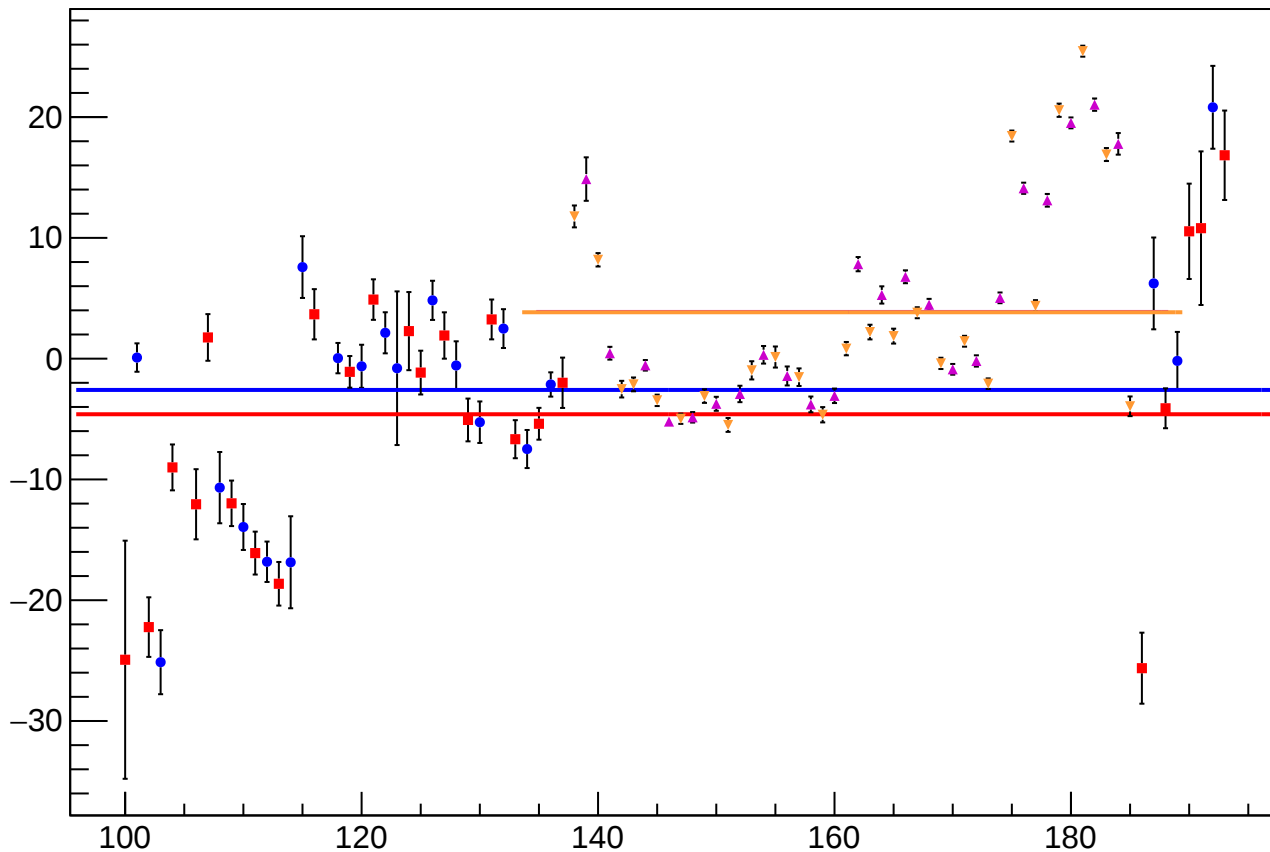
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.191+/-1.441 χ^2/NDF : 301.8/2
 Left Out: -27.408+/-0.137 χ^2/NDF :14850.5/24
 Right Out: 12.479+/-0.945 χ^2/NDF : 1147.4/4
 Left In: -27.243+/-0.139 χ^2/NDF :11305.2/22

Left: -27.327+/-0.098 χ^2/NDF : 26156.4/47
 Right: 5.964+/-0.790 χ^2/NDF : 1607.3/7
 In: -27.076+/-0.139 χ^2/NDF :11762.4/25
 Out: -26.588+/-0.135 χ^2/NDF :17743.5/29
 All: -26.826+/-0.097 χ^2/NDF : 29512.3/55

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.590 ± 0.401 $\chi^2/\text{NDF}: 333.3/19$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -4.603 ± 0.404 $\chi^2/\text{NDF}: 402.2/23$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

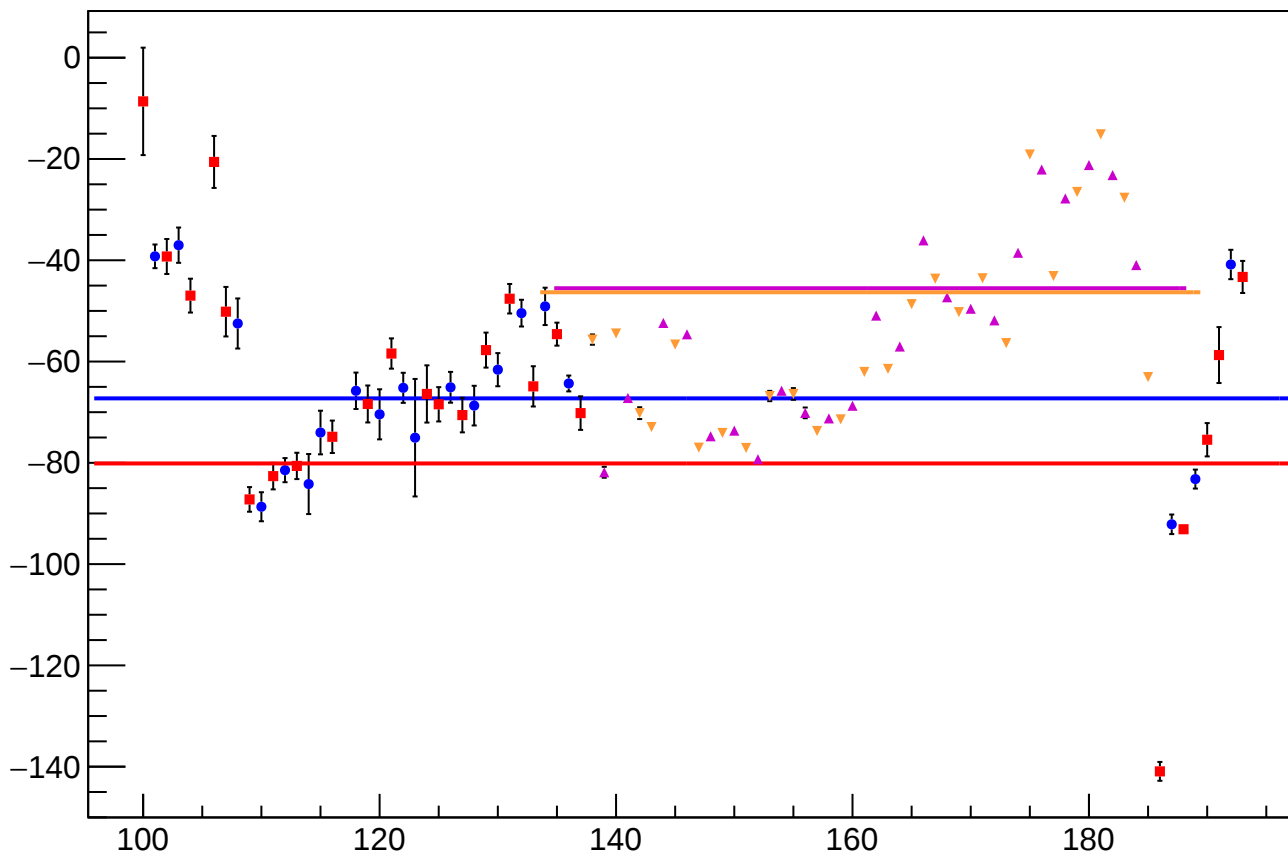
Right: -3.588 ± 0.284 $\chi^2/\text{NDF}: 748.1/43$

In: 3.404 ± 0.107 $\chi^2/\text{NDF}: 5998.4/42$

Out: 3.266 ± 0.105 $\chi^2/\text{NDF}: 7748.5/48$

All: 3.334 ± 0.075 $\chi^2/\text{NDF}: 13747.8/91$

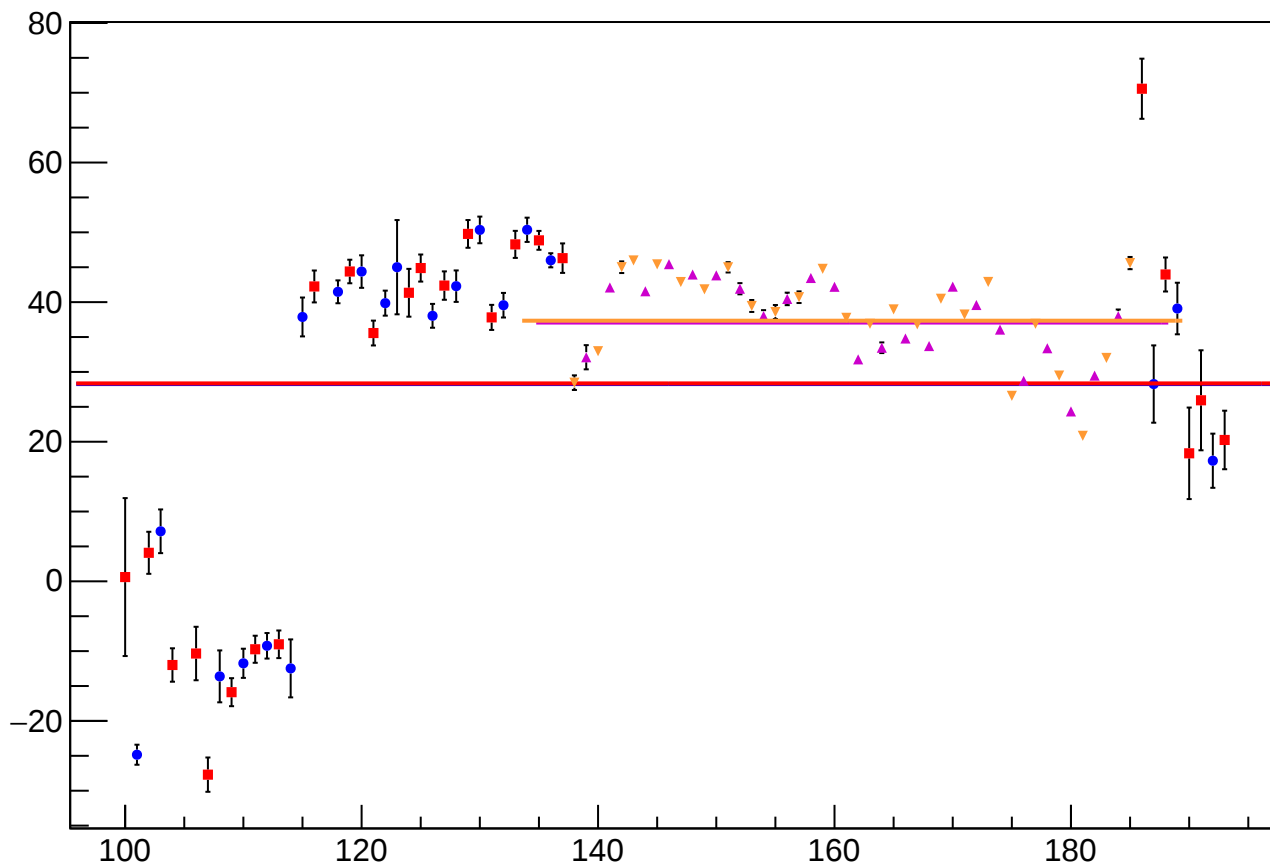
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.273 ± 0.634 χ^2/NDF : 724.8/19
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -80.122 ± 0.541 χ^2/NDF : 2283.7/23
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -74.705 ± 0.411 χ^2/NDF : 3246.3/43
 In: -46.531 ± 0.136 χ^2/NDF : 19373.5/42
 Out: -48.381 ± 0.134 χ^2/NDF : 26083.7/48
 All: -47.475 ± 0.095 χ^2/NDF : 45551.1/91

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.261 $\pm$ 0.453 χ^2 /NDF: 3327.5/19

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.357 $\pm$ 0.463 χ^2 /NDF: 3178.7/23

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

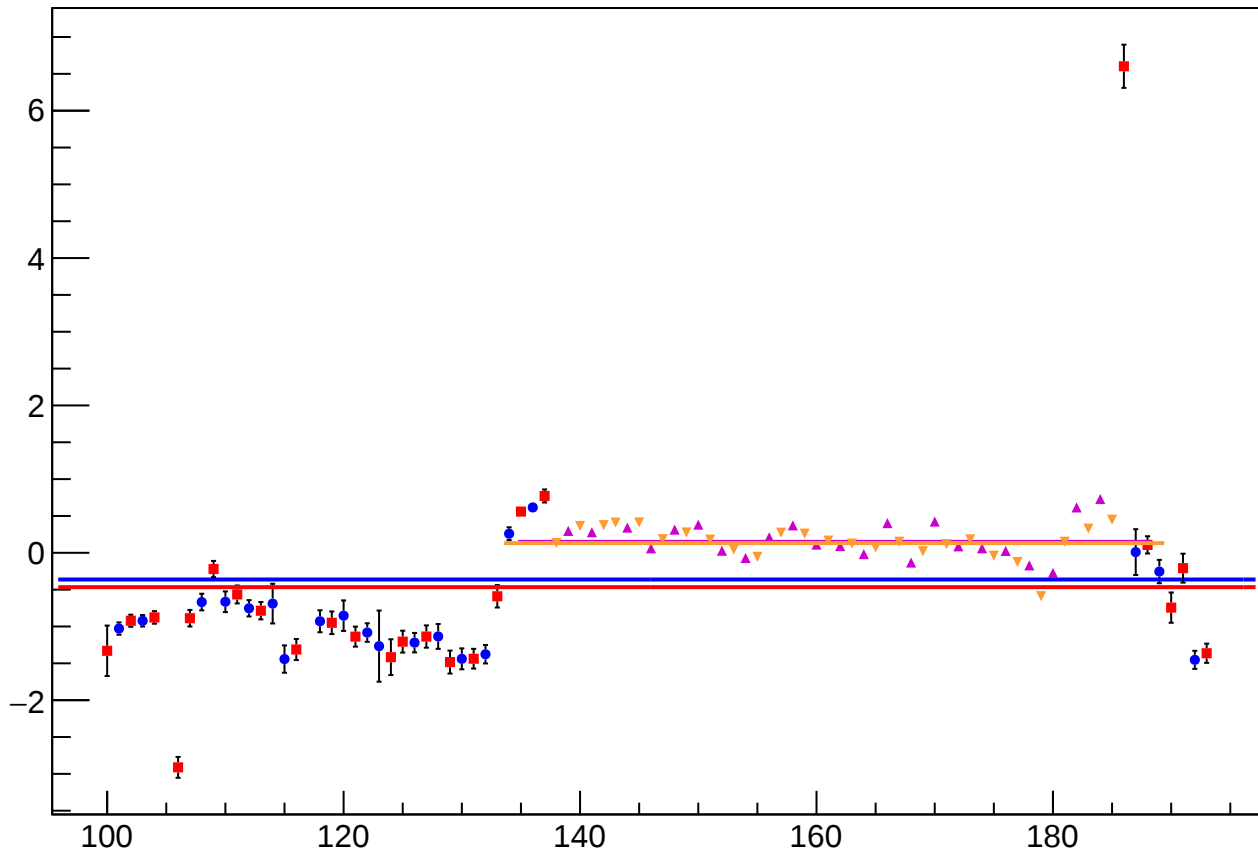
Right: 28.307 $\pm$ 0.324 χ^2 /NDF: 6506.2/43

In: 36.448 $\pm$ 0.121 χ^2 /NDF:6076.9/42

Out: 36.748 $\pm$ 0.119 χ^2 /NDF:6679.8/48

All: 36.600 $\pm$ 0.085 χ^2 /NDF: 12759.9/91

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.362 ± 0.024 χ^2/NDF : 1093.4/19

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.466 ± 0.024 χ^2/NDF : 1818.9/23

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

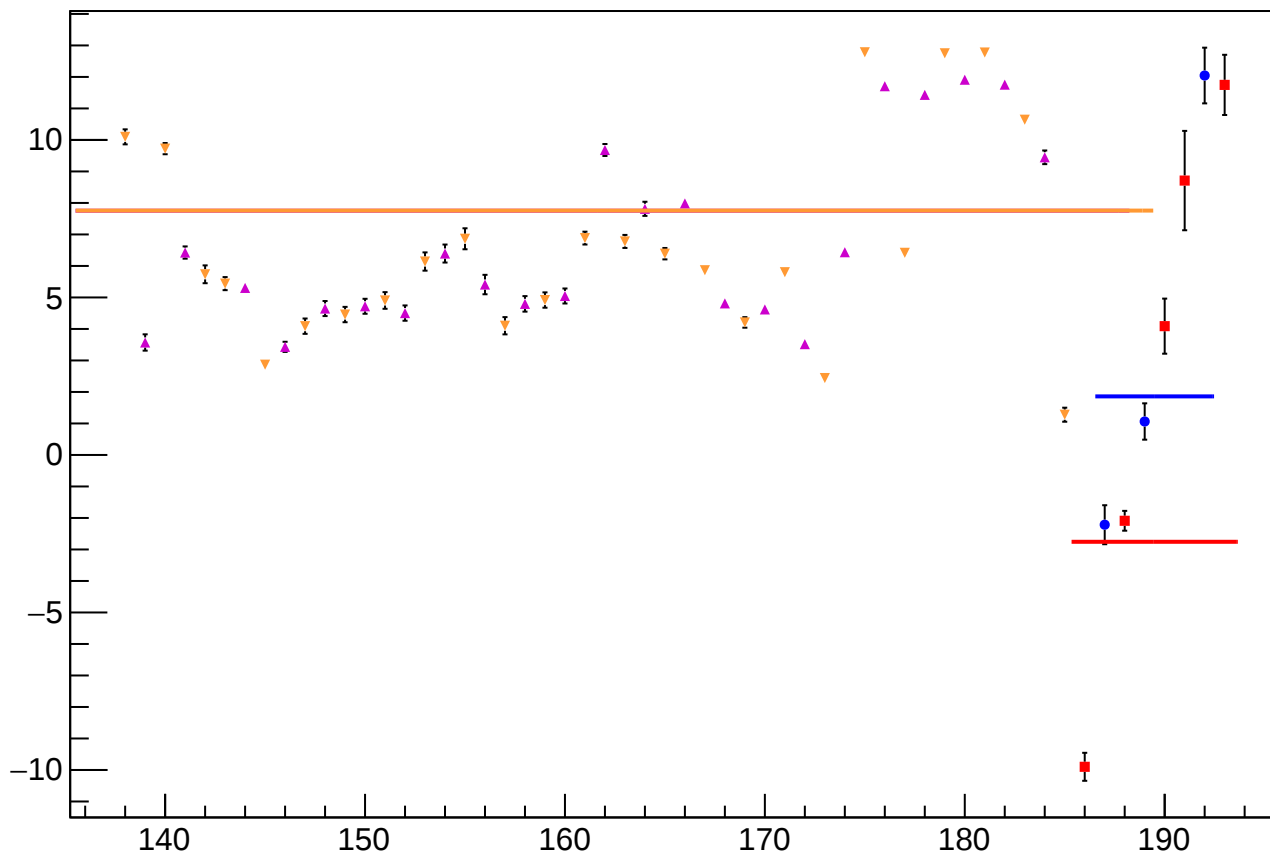
Right: -0.414 ± 0.017 χ^2/NDF : 2921.5/43

In: 0.121 ± 0.006 χ^2/NDF : 3322.3/42

Out: 0.101 ± 0.005 χ^2/NDF : 3820.1/48

All: 0.111 ± 0.004 χ^2/NDF : 7149.3/91

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.859 ± 0.381 $\chi^2/\text{NDF}: 177.9/2$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: -2.756 ± 0.236 $\chi^2/\text{NDF}: 607.6/4$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

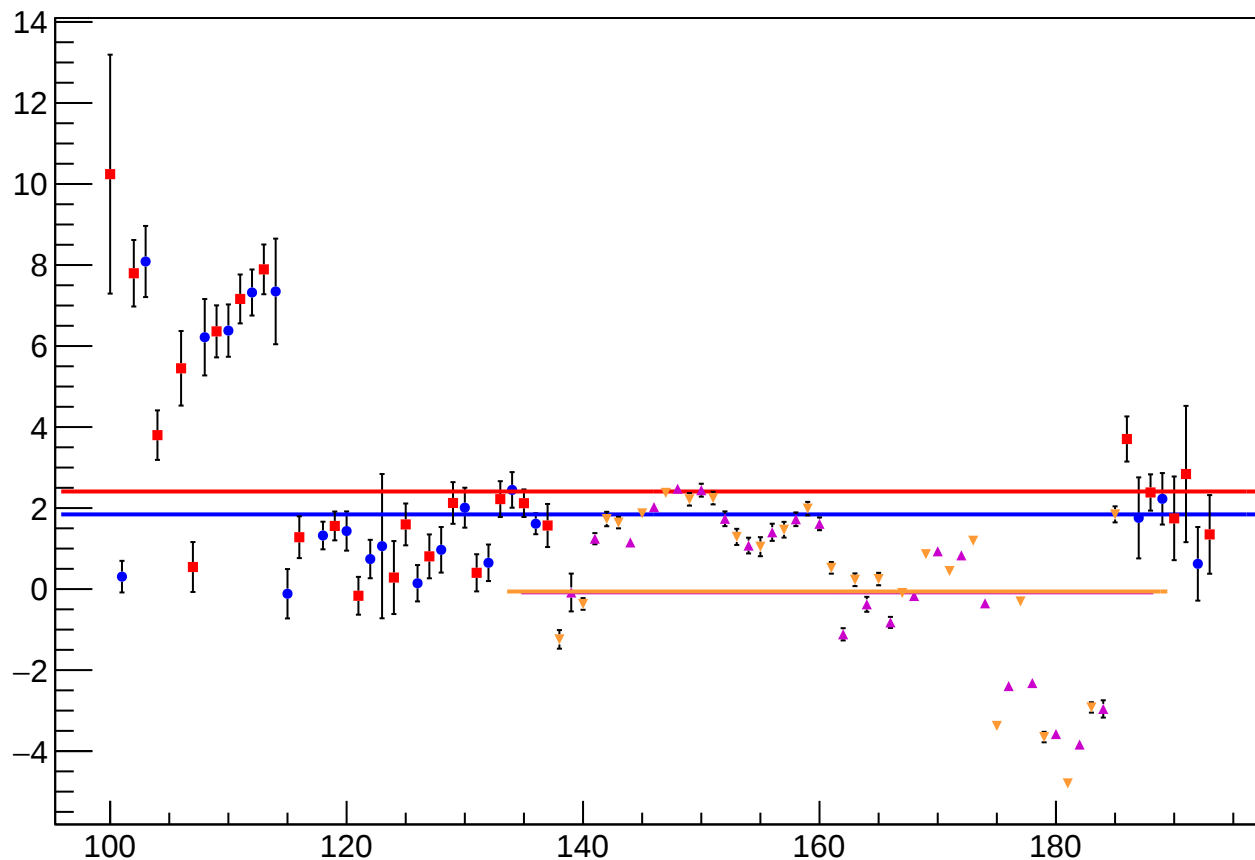
Right: -1.477 ± 0.201 $\chi^2/\text{NDF}: 891.7/7$

In: 7.703 ± 0.035 $\chi^2/\text{NDF}: 8760.6/25$

Out: 7.539 ± 0.034 $\chi^2/\text{NDF}: 14282.0/29$

All: 7.619 ± 0.024 $\chi^2/\text{NDF}: 23053.9/55$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.844 ± 0.114 $\chi^2/\text{NDF}: 295.4/19$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.409 ± 0.114 $\chi^2/\text{NDF}: 342.7/23$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

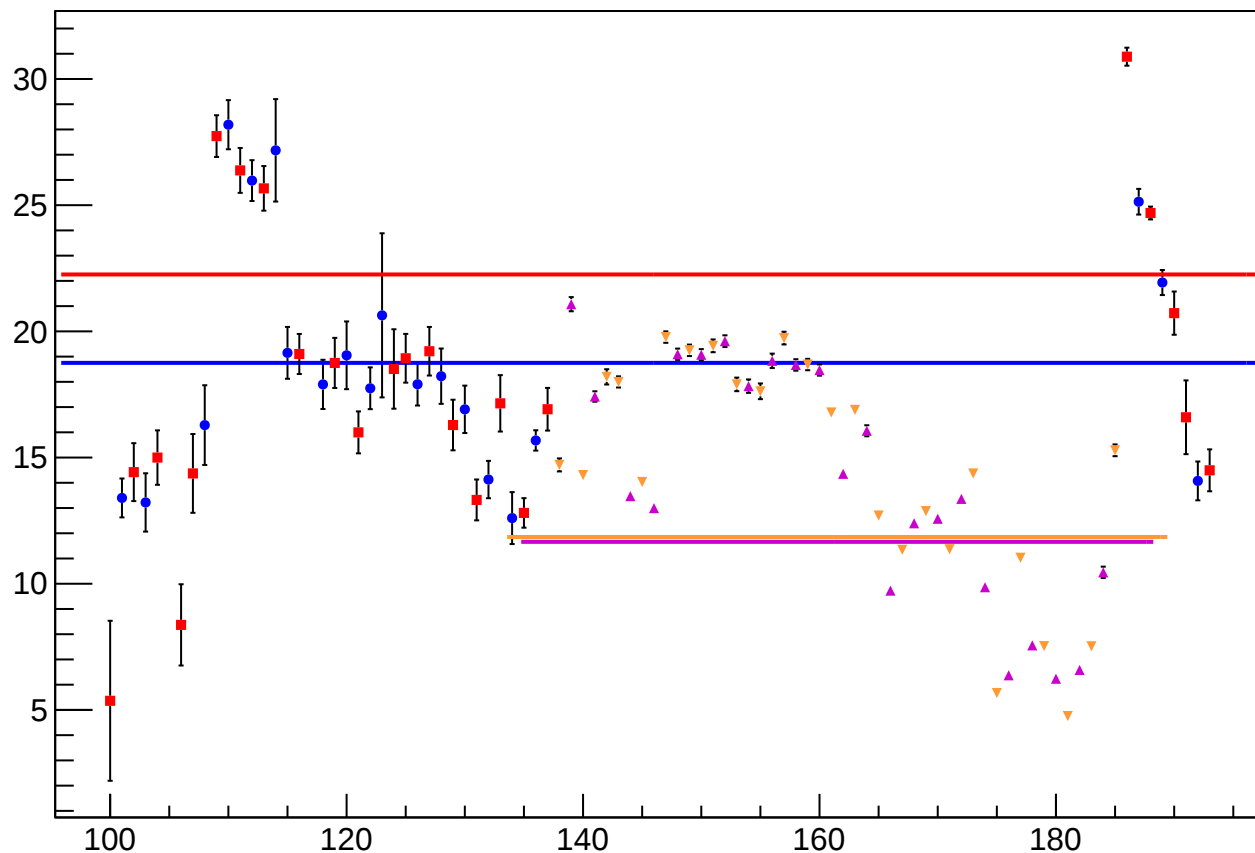
Right: 2.126 ± 0.081 $\chi^2/\text{NDF}: 650.5/43$

In: 0.032 ± 0.027 $\chi^2/\text{NDF}: 5544.6/42$

Out: 0.079 ± 0.027 $\chi^2/\text{NDF}: 6854.2/48$

All: 0.056 ± 0.019 $\chi^2/\text{NDF}: 12400.3/91$

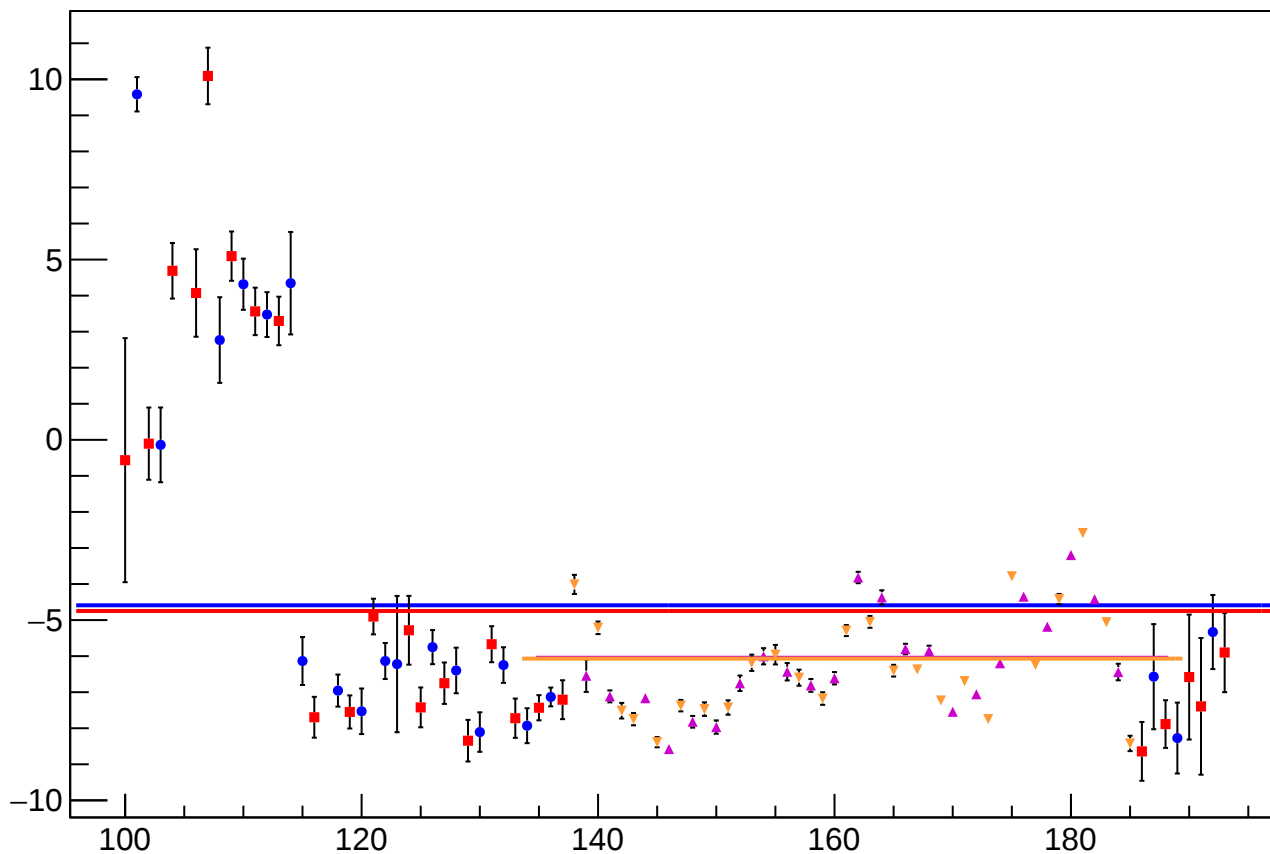
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.752 $\pm$ 0.178 χ^2 /NDF: 640.9/19
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 22.255 $\pm$ 0.145 χ^2 /NDF: 1673.2/23
 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: 20.851 $\pm$ 0.112 χ^2 /NDF: 2547.1/43
 In: 11.928 $\pm$ 0.035 χ^2 /NDF:18884.7/42
 Out: 12.414 $\pm$ 0.034 χ^2 /NDF:25675.7/48
 All: 12.176 $\pm$ 0.024 χ^2 /NDF: 44661.8/91

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.589 ± 0.128 $\chi^2/\text{NDF}: 1599.7/19$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.747 ± 0.131 $\chi^2/\text{NDF}: 1394.4/23$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

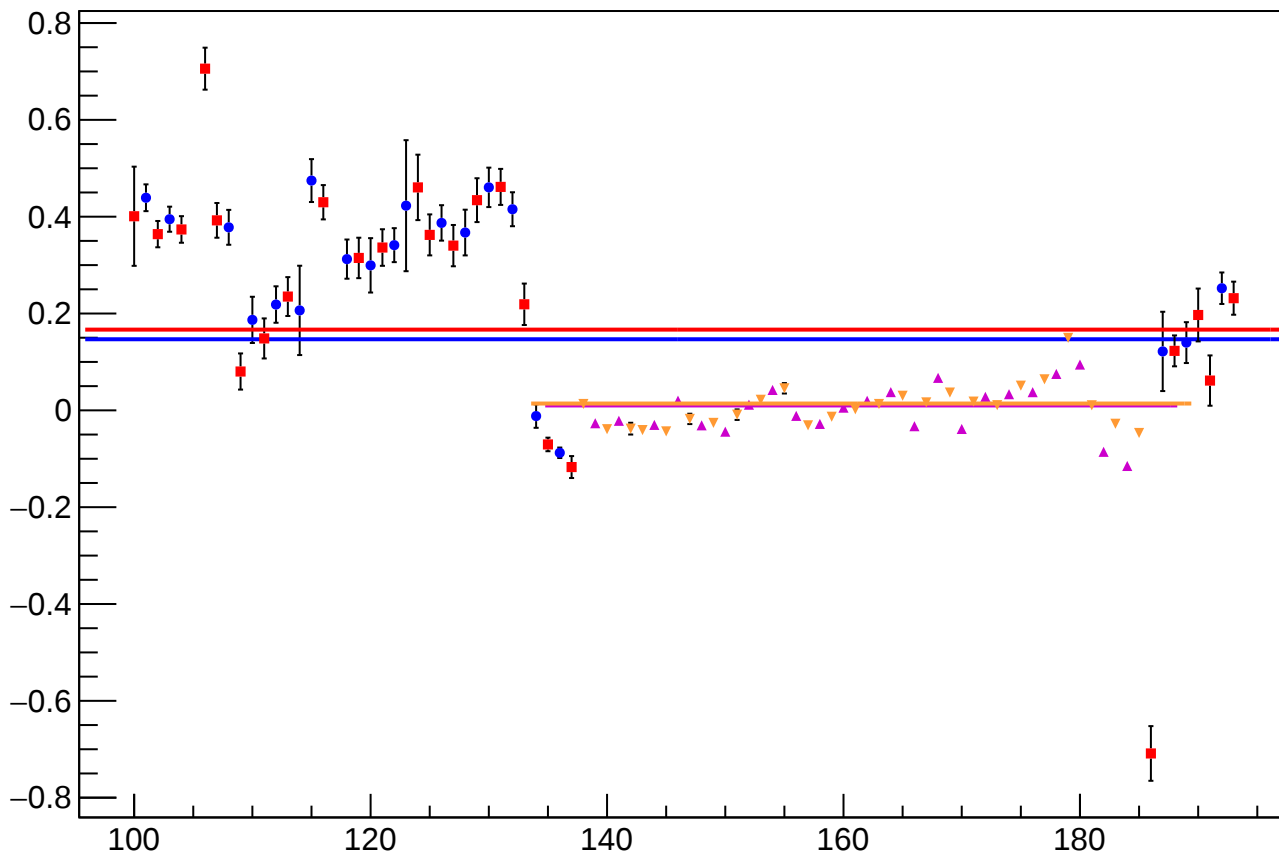
Right: -4.666 ± 0.092 $\chi^2/\text{NDF}: 2994.9/43$

In: -5.961 ± 0.031 $\chi^2/\text{NDF}: 4015.4/42$

Out: -5.998 ± 0.030 $\chi^2/\text{NDF}: 4162.6/48$

All: -5.980 ± 0.022 $\chi^2/\text{NDF}: 8178.7/91$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.147 $\pm$ 0.007 χ^2 /NDF: 1068.8/19

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.167 $\pm$ 0.007 χ^2 /NDF: 1254.0/23

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

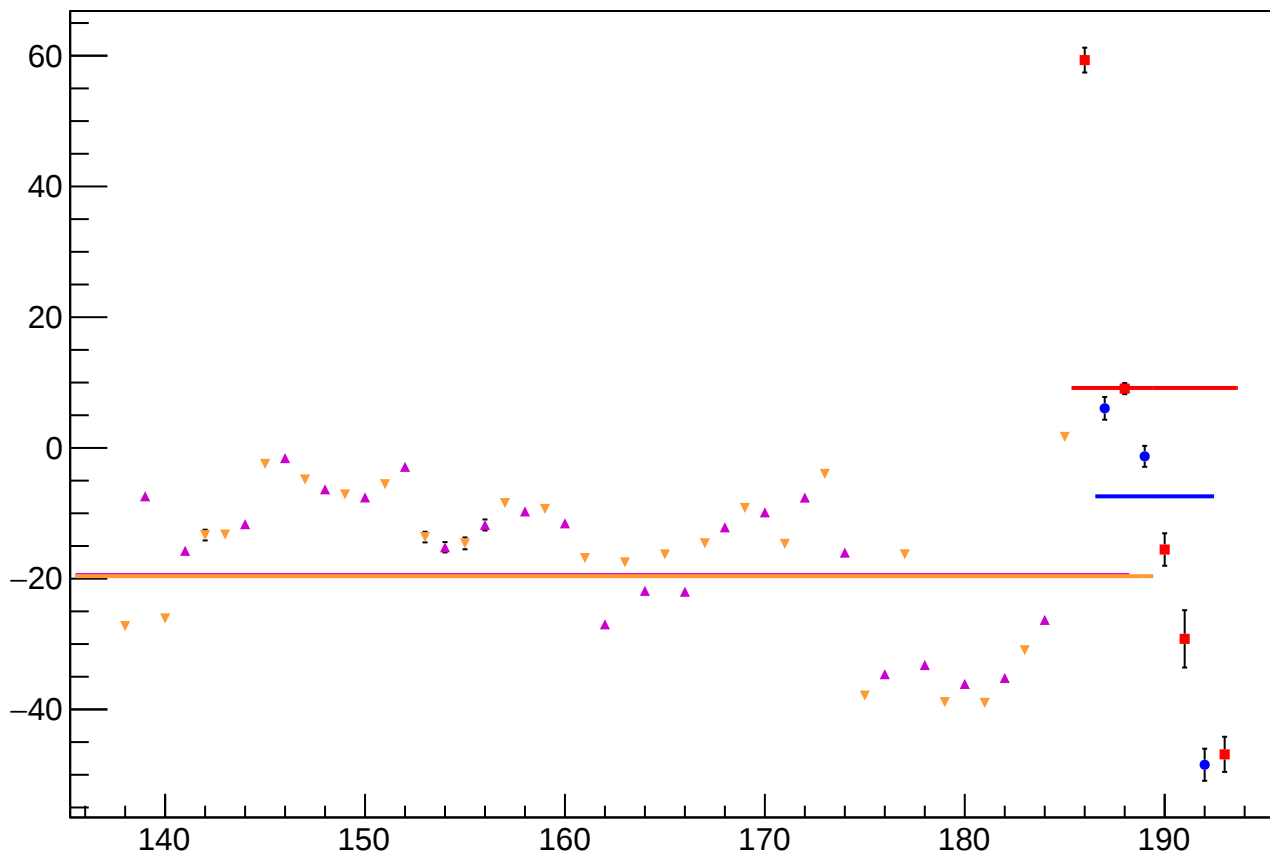
Right: 0.157 $\pm$ 0.005 χ^2 /NDF: 2326.9/43

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2671.8/42

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 2680.7/48

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5357.1/91

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



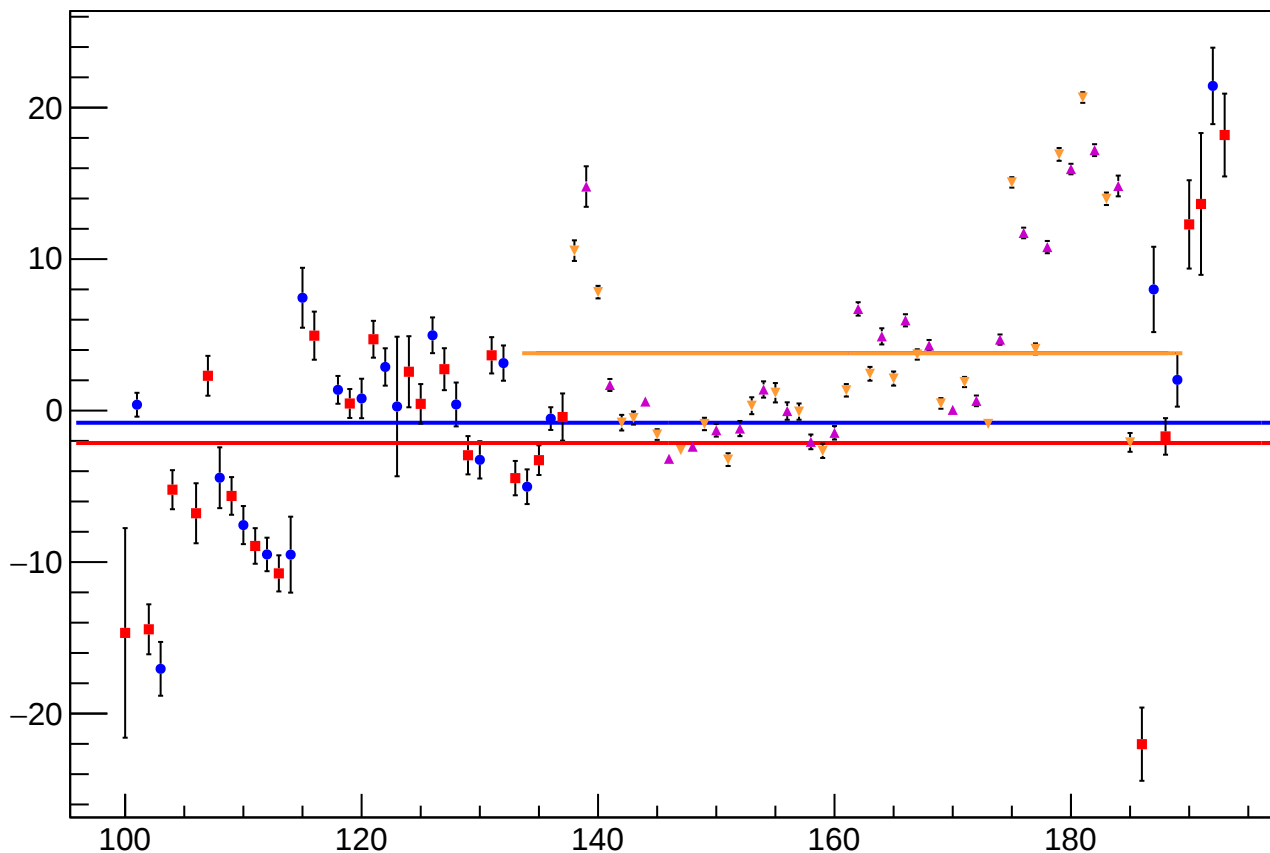
Right In: -7.403 ± 1.064 χ^2/NDF : 354.0/2
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: 9.176 ± 0.704 χ^2/NDF : 1306.0/4
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47
 Right: 4.129 ± 0.587 χ^2/NDF : 1829.0/7

In: -19.334 ± 0.105 χ^2/NDF : 12764.2/25
 Out: -19.006 ± 0.102 χ^2/NDF : 18705.6/29

All: -19.166 ± 0.073 χ^2/NDF : 31474.8/55

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.802 ± 0.286 χ^2/NDF : 369.1/19

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -2.138 ± 0.288 χ^2/NDF : 443.8/23

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

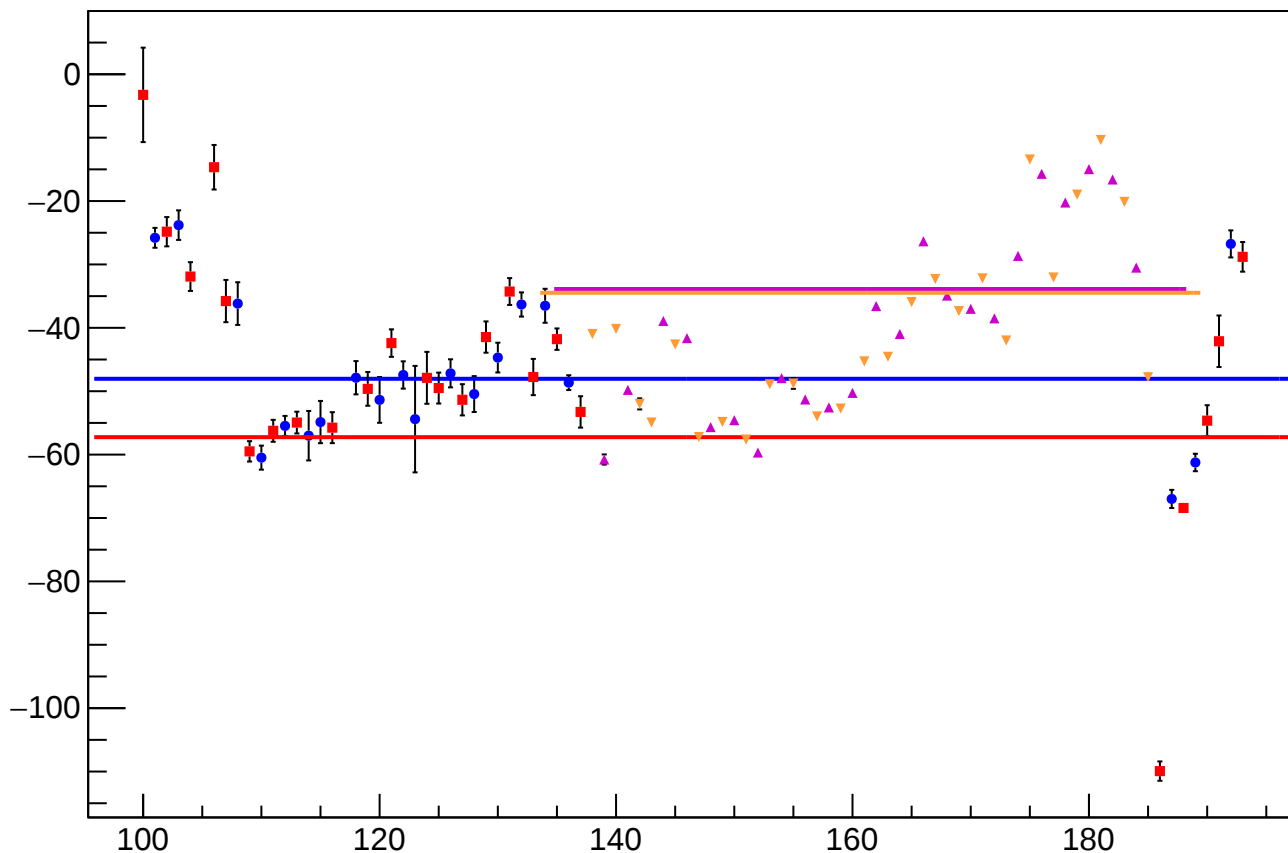
Right: -1.465 ± 0.203 χ^2/NDF : 823.7/43

In: 3.436 ± 0.080 χ^2/NDF : 6125.2/42

Out: 3.343 ± 0.079 χ^2/NDF : 7986.2/48

All: 3.388 ± 0.056 χ^2/NDF : 14112.0/91

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.040 $\pm$ 0.454 χ^2 /NDF: 823.4/19

Left Out: -34.471 $\pm$ 0.104 χ^2 /NDF:20196.3/24

Right Out: -57.248 $\pm$ 0.391 χ^2 /NDF: 2518.3/23

Left In: -33.875 $\pm$ 0.105 χ^2 /NDF:17638.7/22

Left: -34.177 $\pm$ 0.074 χ^2 /NDF: 37851.2/47

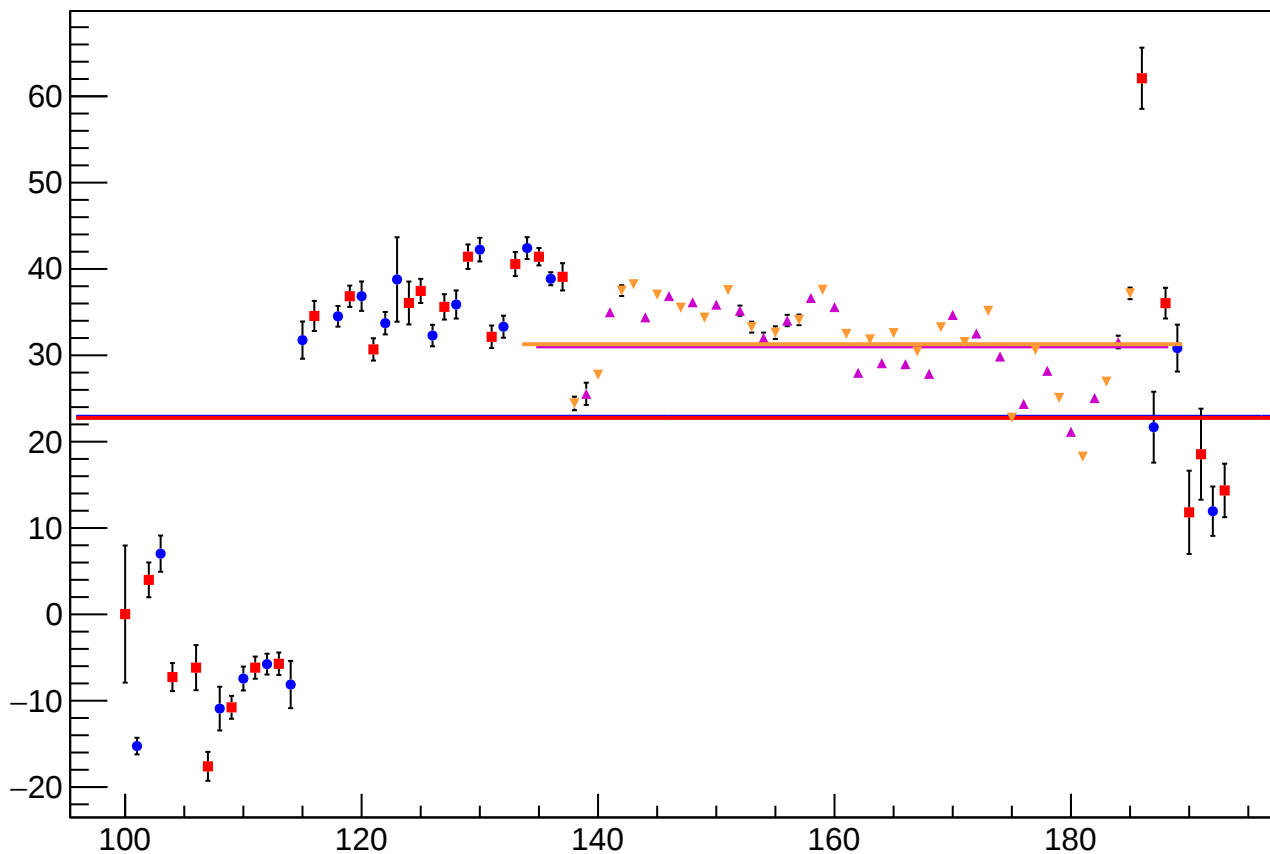
Right: -53.324 $\pm$ 0.296 χ^2 /NDF: 3578.1/43

In: -34.599 $\pm$ 0.103 χ^2 /NDF:19387.4/42

Out: -35.975 $\pm$ 0.100 χ^2 /NDF:25884.9/48

All: -35.301 $\pm$ 0.072 χ^2 /NDF: 45364.1/91

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.881 $\pm$ 0.323 χ^2 /NDF: 4340.5/19

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.754 $\pm$ 0.330 χ^2 /NDF: 4226.0/23

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

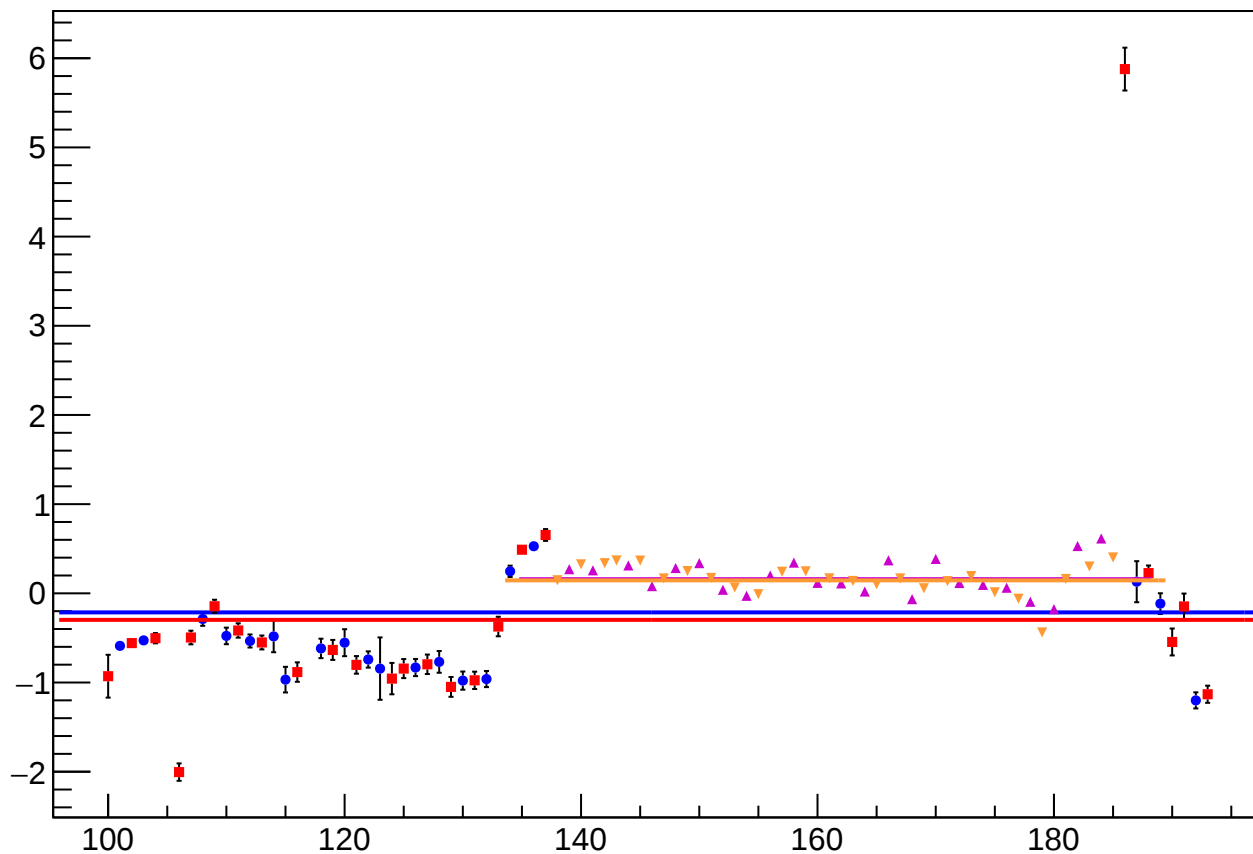
Right: 22.819 $\pm$ 0.231 χ^2 /NDF: 8566.6/43

In: 30.400 $\pm$ 0.090 χ^2 /NDF:7408.0/42

Out: 30.665 $\pm$ 0.089 χ^2 /NDF:8192.7/48

All: 30.535 $\pm$ 0.063 χ^2 /NDF: 15605.1/91

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.214 ± 0.017 χ^2/NDF : 1121.1/19

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.297 ± 0.017 χ^2/NDF : 1953.9/23

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

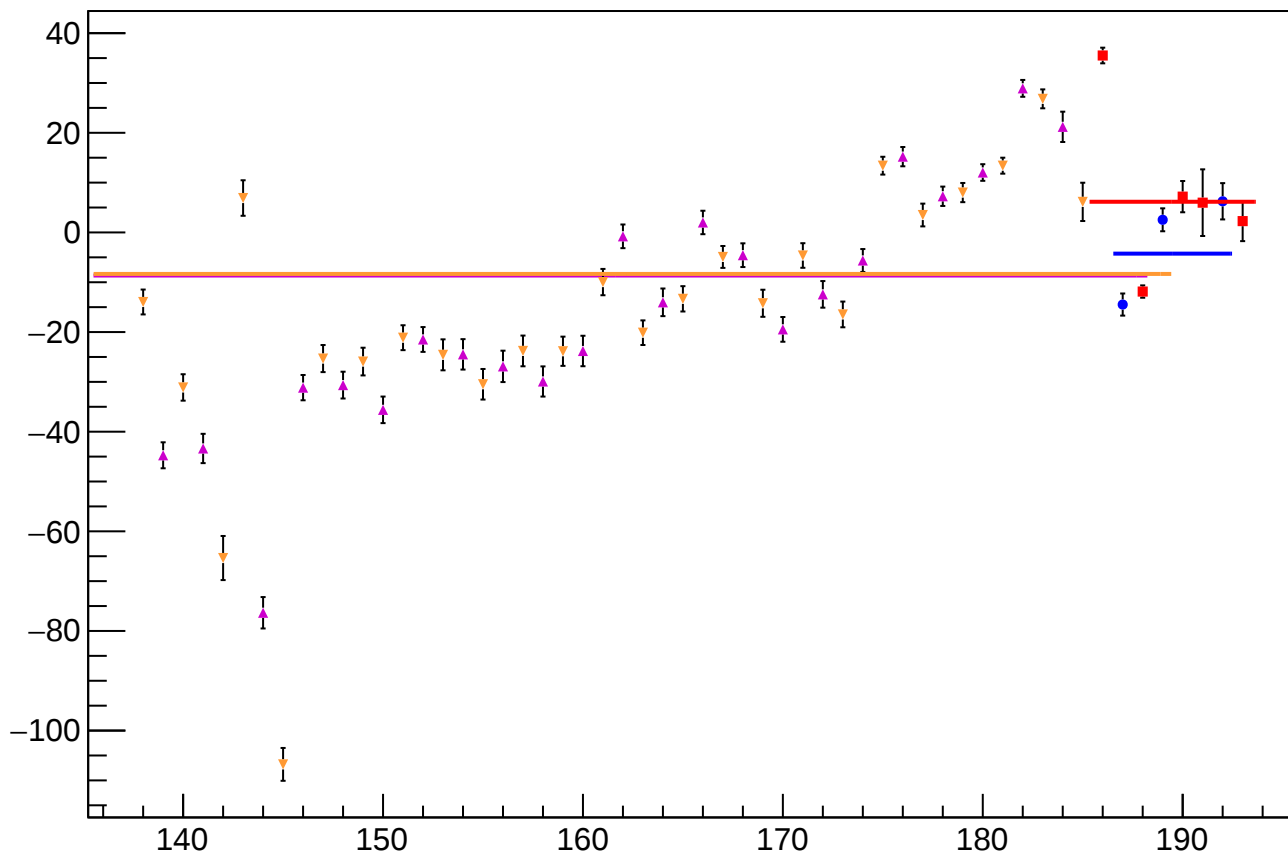
Right: -0.256 ± 0.012 χ^2/NDF : 3086.8/43

In: 0.137 ± 0.004 χ^2/NDF : 3572.0/42

Out: 0.120 ± 0.004 χ^2/NDF : 4156.5/48

All: 0.128 ± 0.003 χ^2/NDF : 7736.7/91

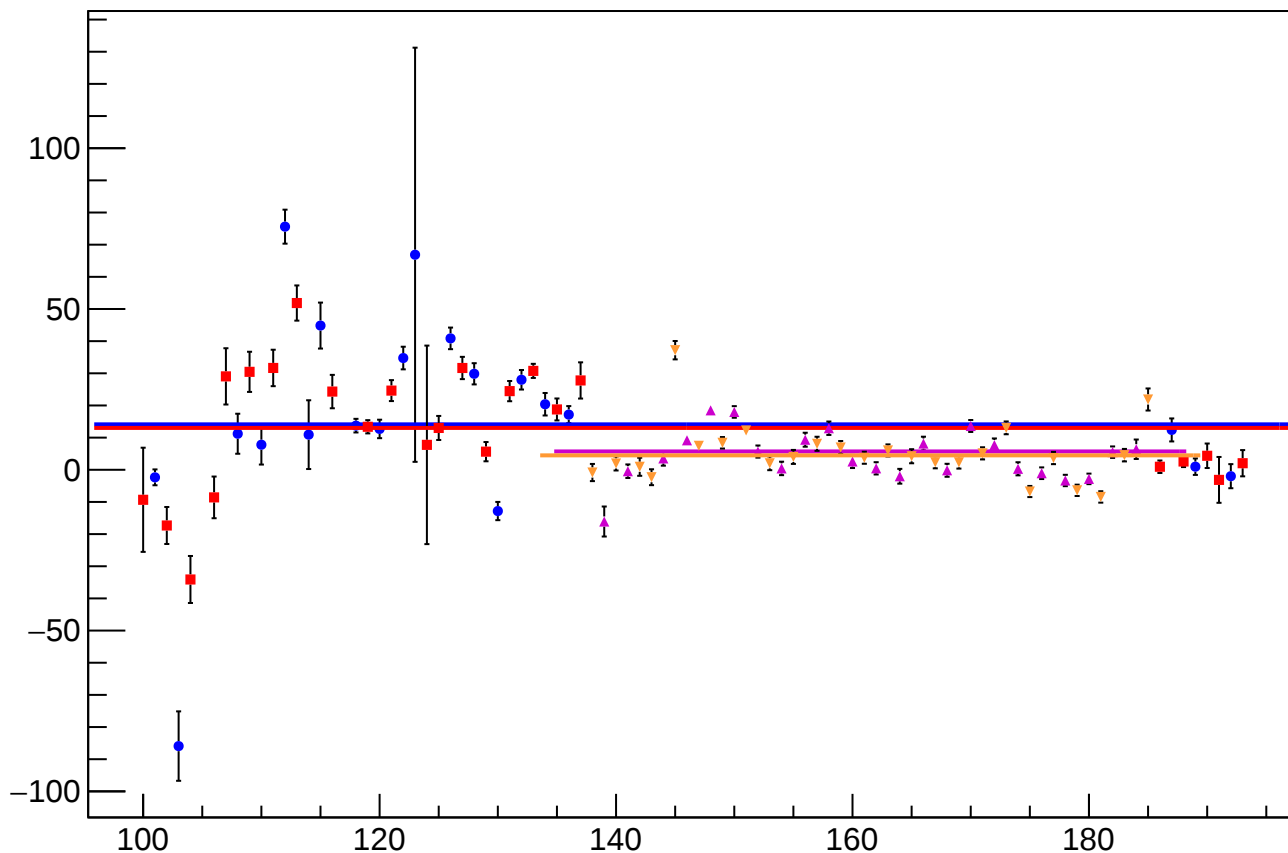
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.256 ± 1.463 $\chi^2/\text{NDF}: 38.2/2$
 Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$
 Right Out: 6.157 ± 0.897 $\chi^2/\text{NDF}: 562.0/4$
 Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$
 Right: 3.312 ± 0.765 $\chi^2/\text{NDF}: 637.1/7$
 In: -8.180 ± 0.479 $\chi^2/\text{NDF}: 2270.1/25$
 Out: -4.902 ± 0.436 $\chi^2/\text{NDF}: 2987.3/29$
 All: -6.388 ± 0.323 $\chi^2/\text{NDF}: 5283.0/55$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.126 $\pm$ 0.777 χ^2 /NDF: 568.1/19

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 13.019 $\pm$ 0.709 χ^2 /NDF: 388.3/23

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

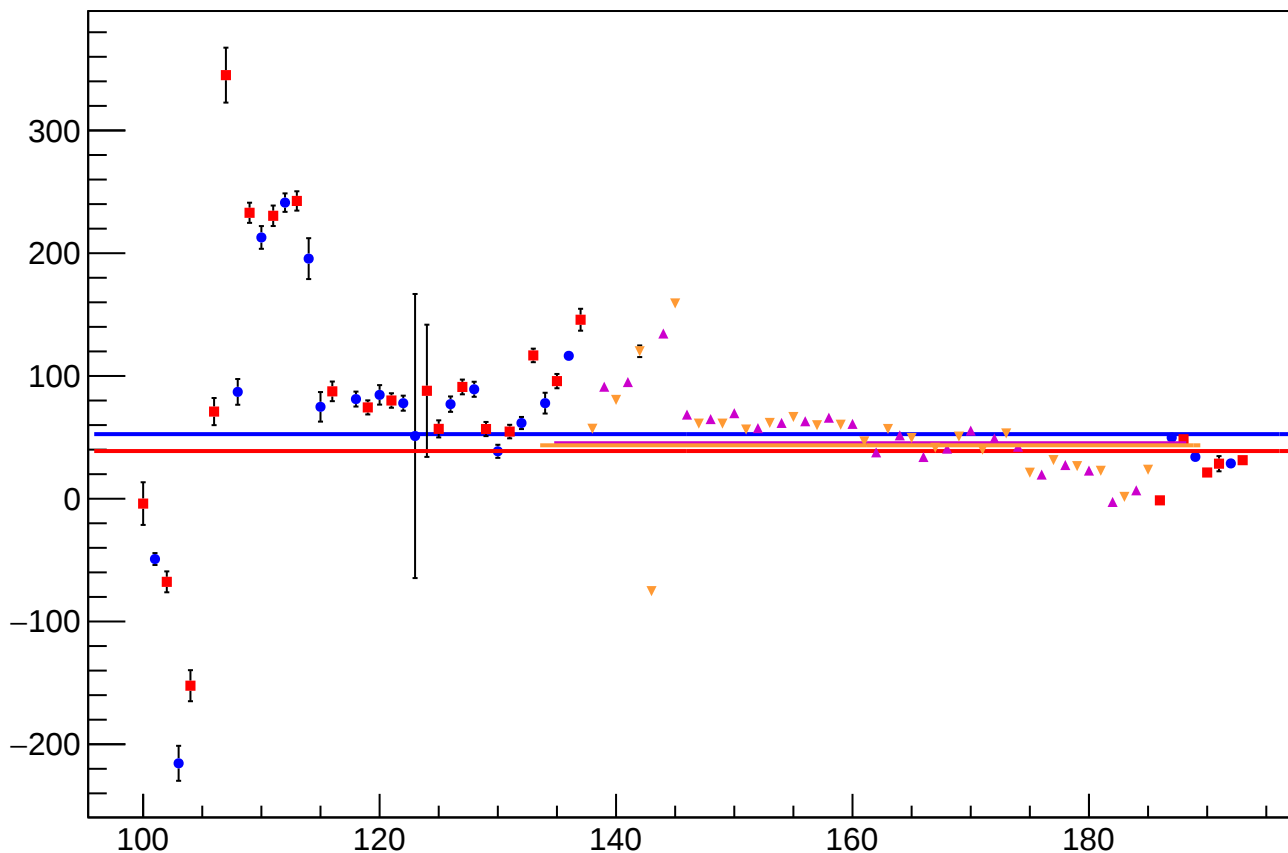
Right: 13.522 $\pm$ 0.524 χ^2 /NDF: 957.4/43

In: 7.497 $\pm$ 0.359 χ^2 /NDF: 984.5/42

Out: 6.482 $\pm$ 0.343 χ^2 /NDF: 871.0/48

All: 6.967 $\pm$ 0.248 χ^2 /NDF: 1859.7/91

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 52.624+/-0.983 χ^2/NDF : 2325.9/19

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 38.844+/-0.675 χ^2/NDF : 4159.5/23

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

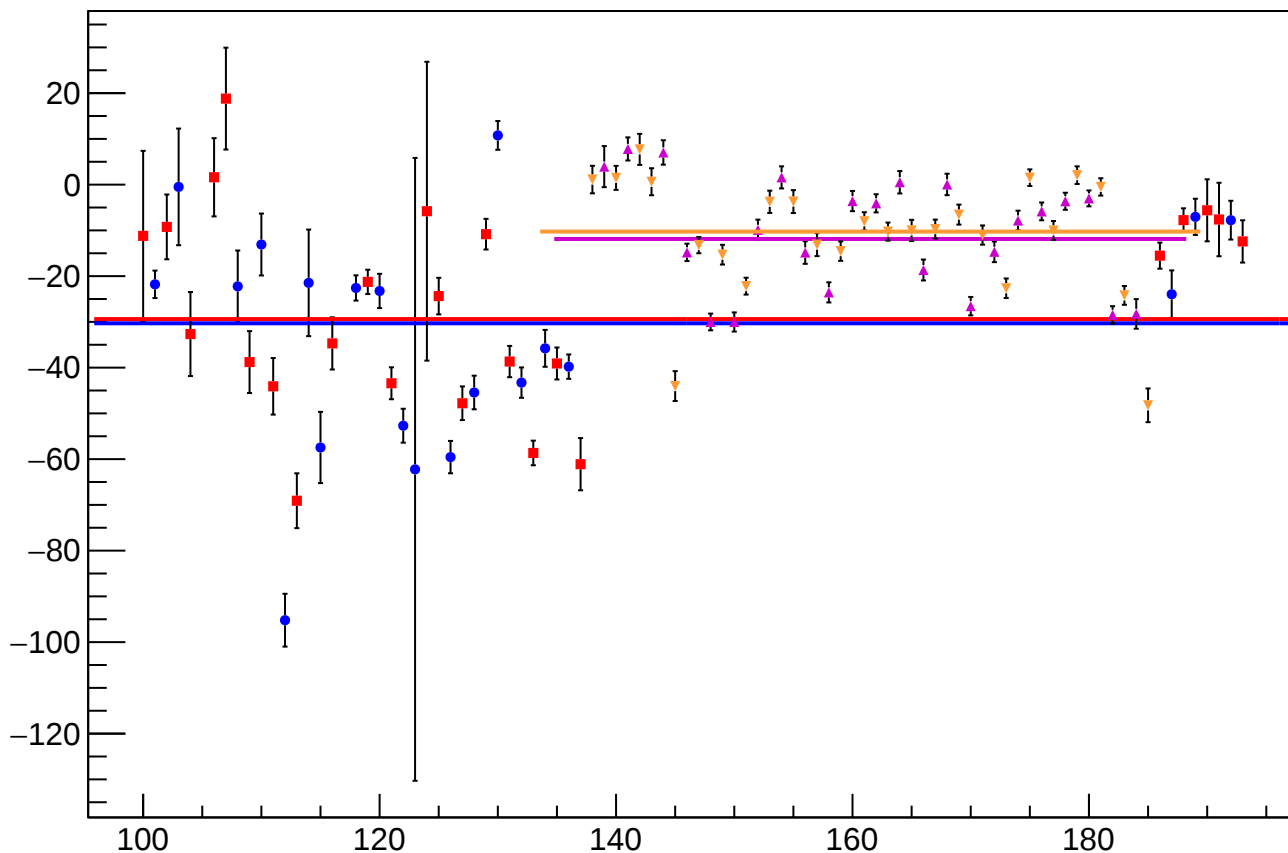
Right: 43.259+/-0.557 χ^2/NDF : 6618.8/43

In: 46.755+/-0.449 χ^2/NDF : 5419.4/42

Out: 41.874+/-0.401 χ^2/NDF : 8021.3/48

All: 44.041+/-0.299 χ^2/NDF : 13506.5/91

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.306 ± 0.917 $\chi^2/\text{NDF}: 558.3/19$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -29.387 ± 0.875 $\chi^2/\text{NDF}: 468.0/23$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

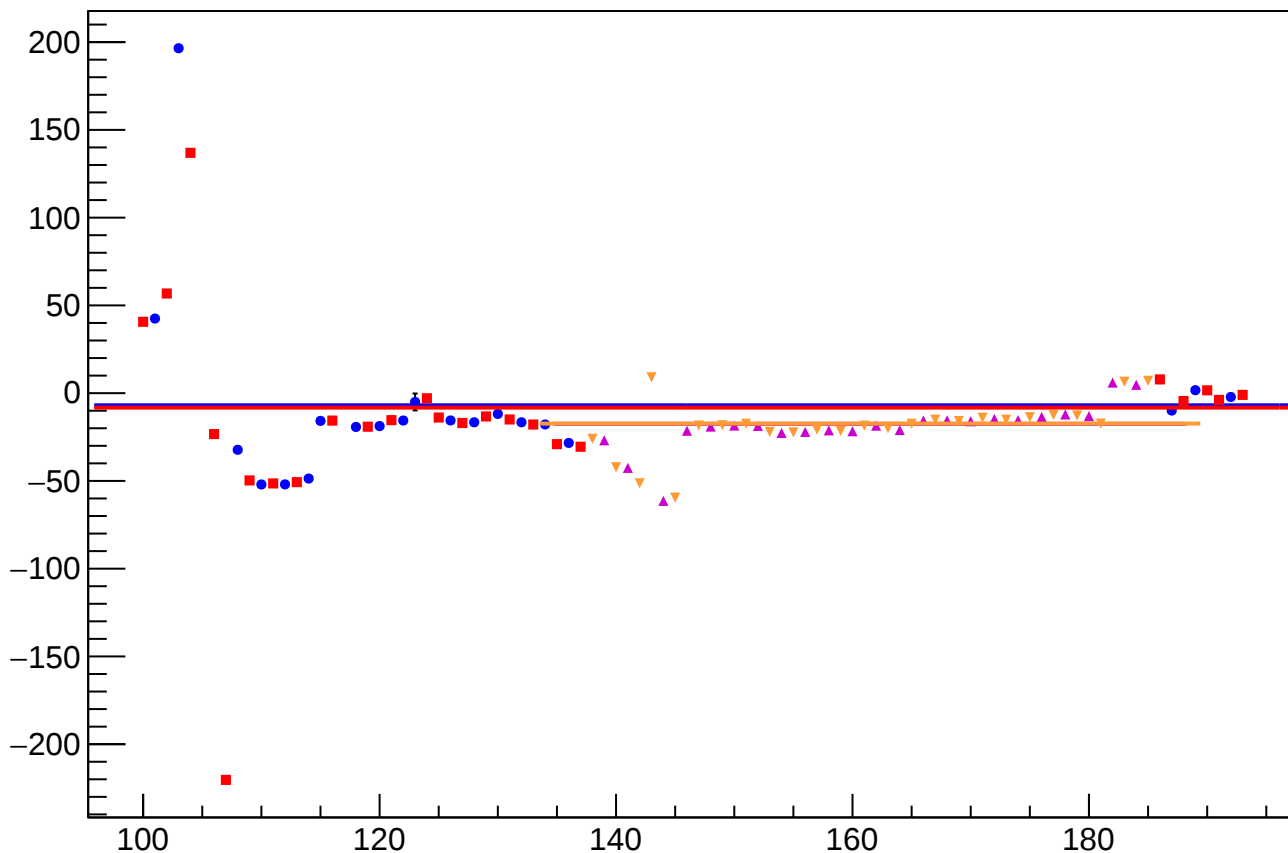
Right: -29.825 ± 0.633 $\chi^2/\text{NDF}: 1026.8/43$

In: -15.533 ± 0.408 $\chi^2/\text{NDF}: 1548.4/42$

Out: -14.180 ± 0.396 $\chi^2/\text{NDF}: 1400.7/48$

All: -14.836 ± 0.284 $\chi^2/\text{NDF}: 2954.8/91$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.921 ± 0.051 $\chi^2/\text{NDF}: 579985.8/19$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -8.234 ± 0.048 $\chi^2/\text{NDF}: 576487.3/23$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

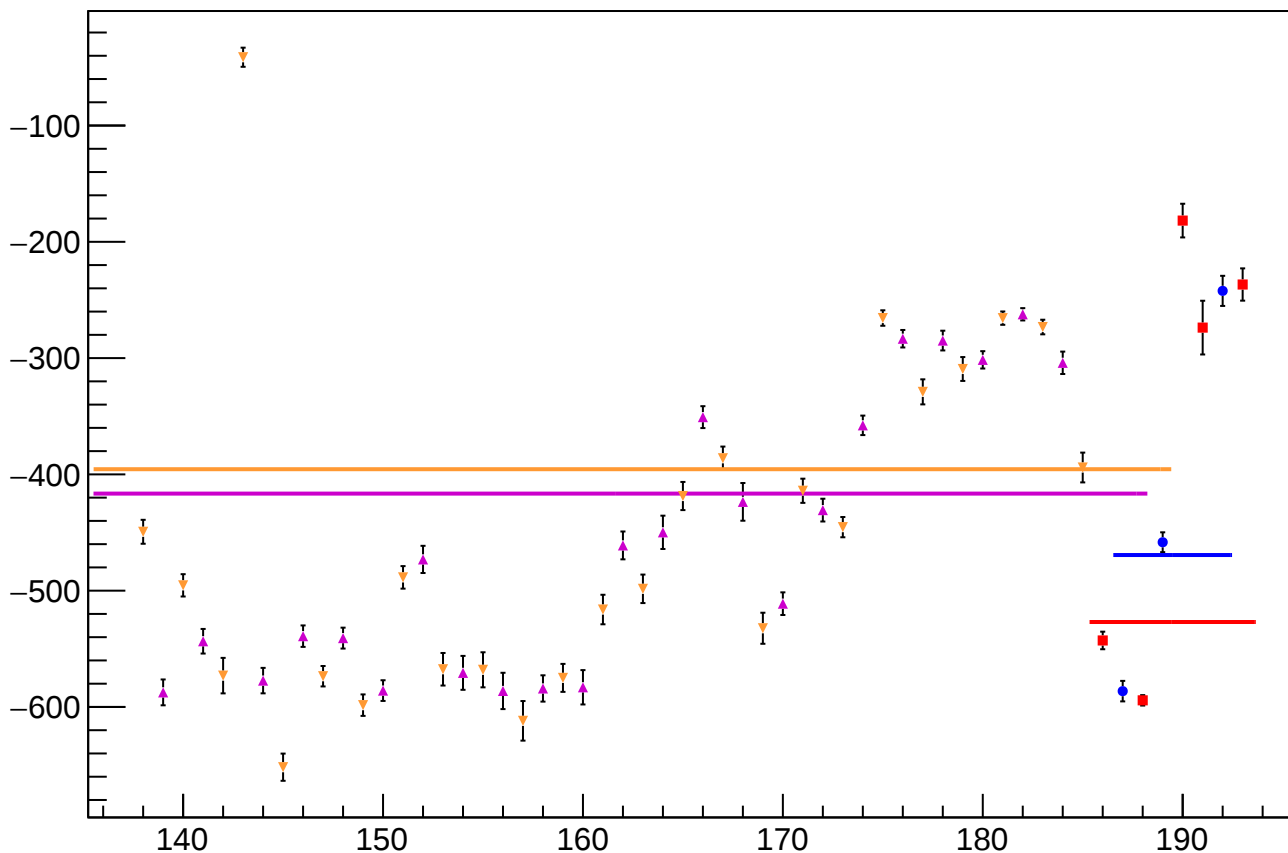
Right: -7.618 ± 0.035 $\chi^2/\text{NDF}: 1156824.3/43$

In: -16.003 ± 0.019 $\chi^2/\text{NDF}: 875982.4/42$

Out: -15.941 ± 0.019 $\chi^2/\text{NDF}: 932119.9/48$

All: -15.971 ± 0.013 $\chi^2/\text{NDF}: 1808107.8/91$

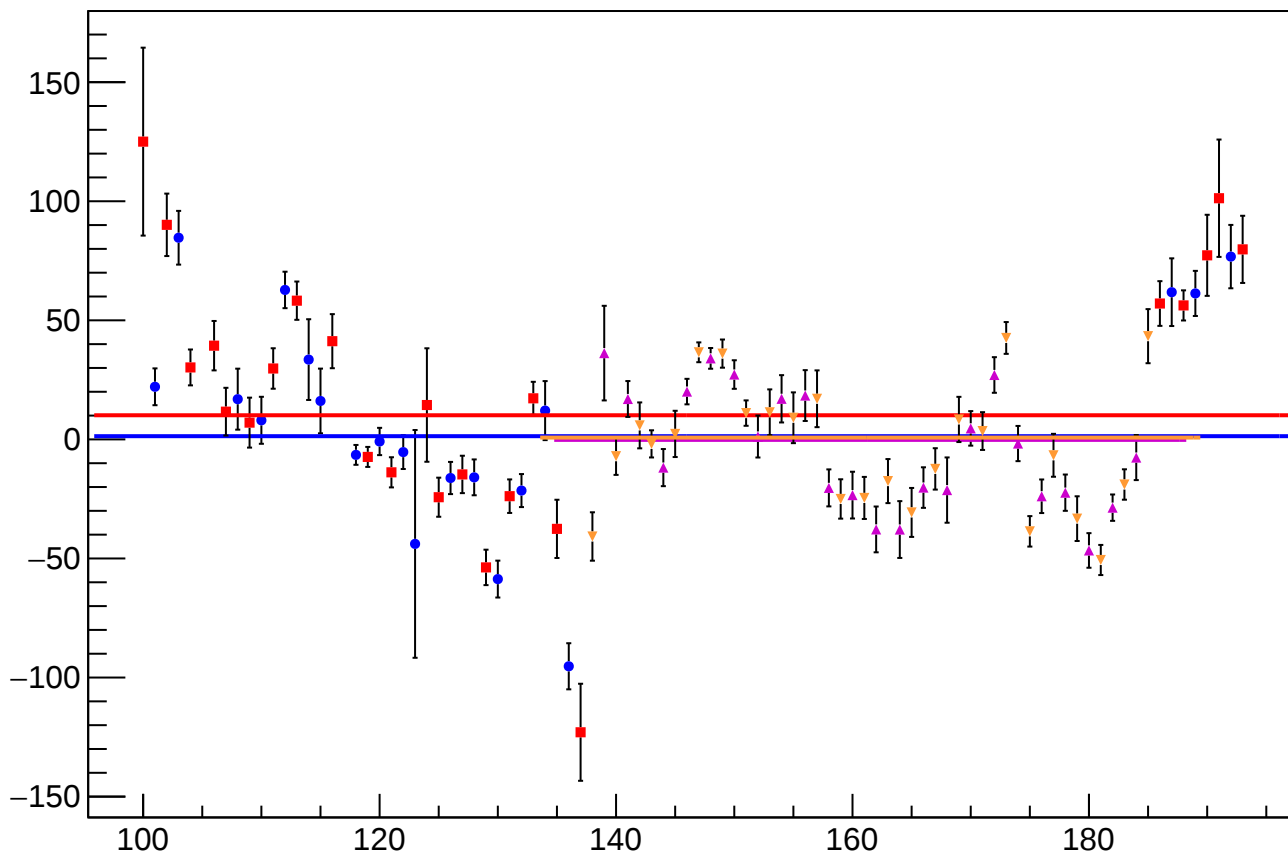
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -469.349 $\pm$ 5.540 χ^2 /NDF: 485.6/2
 Left Out: -395.547 $\pm$ 1.953 χ^2 /NDF:5946.5/24
 Right Out: -526.945 $\pm$ 3.556 χ^2 /NDF: 1355.7/4
 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: -510.137 $\pm$ 2.993 χ^2 /NDF: 1917.9/7
 In: -422.639 $\pm$ 1.885 χ^2 /NDF:4483.0/25
 Out: -426.006 $\pm$ 1.712 χ^2 /NDF:8351.1/29
 All: -424.484 $\pm$ 1.267 χ^2 /NDF: 12835.8/55

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.351 ± 1.853 χ^2/NDF : 411.9/19

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 10.135 ± 1.772 χ^2/NDF : 456.6/23

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

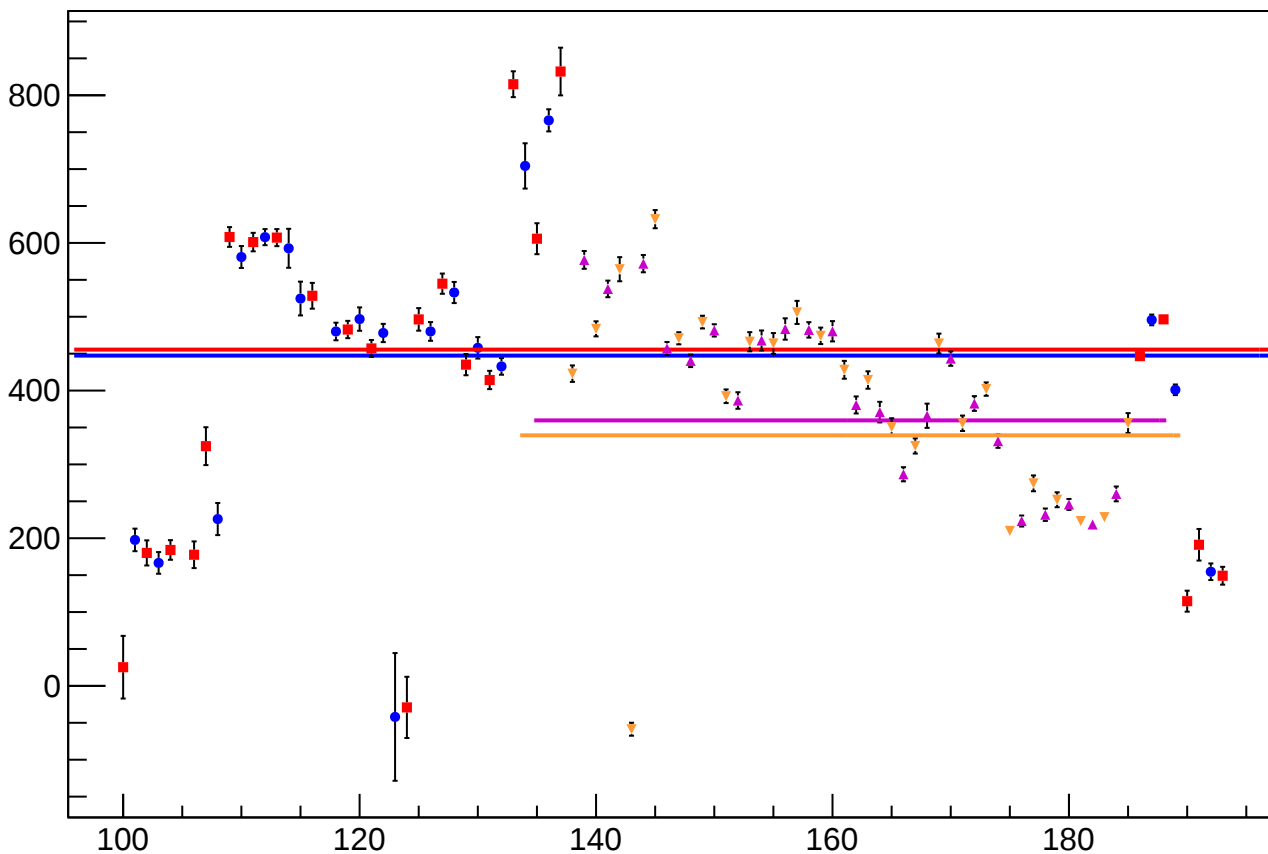
Right: 5.941 ± 1.281 χ^2/NDF : 880.2/43

In: 0.449 ± 1.200 χ^2/NDF : 673.1/42

Out: 4.687 ± 1.146 χ^2/NDF : 822.9/48

All: 2.666 ± 0.829 χ^2/NDF : 1502.5/91

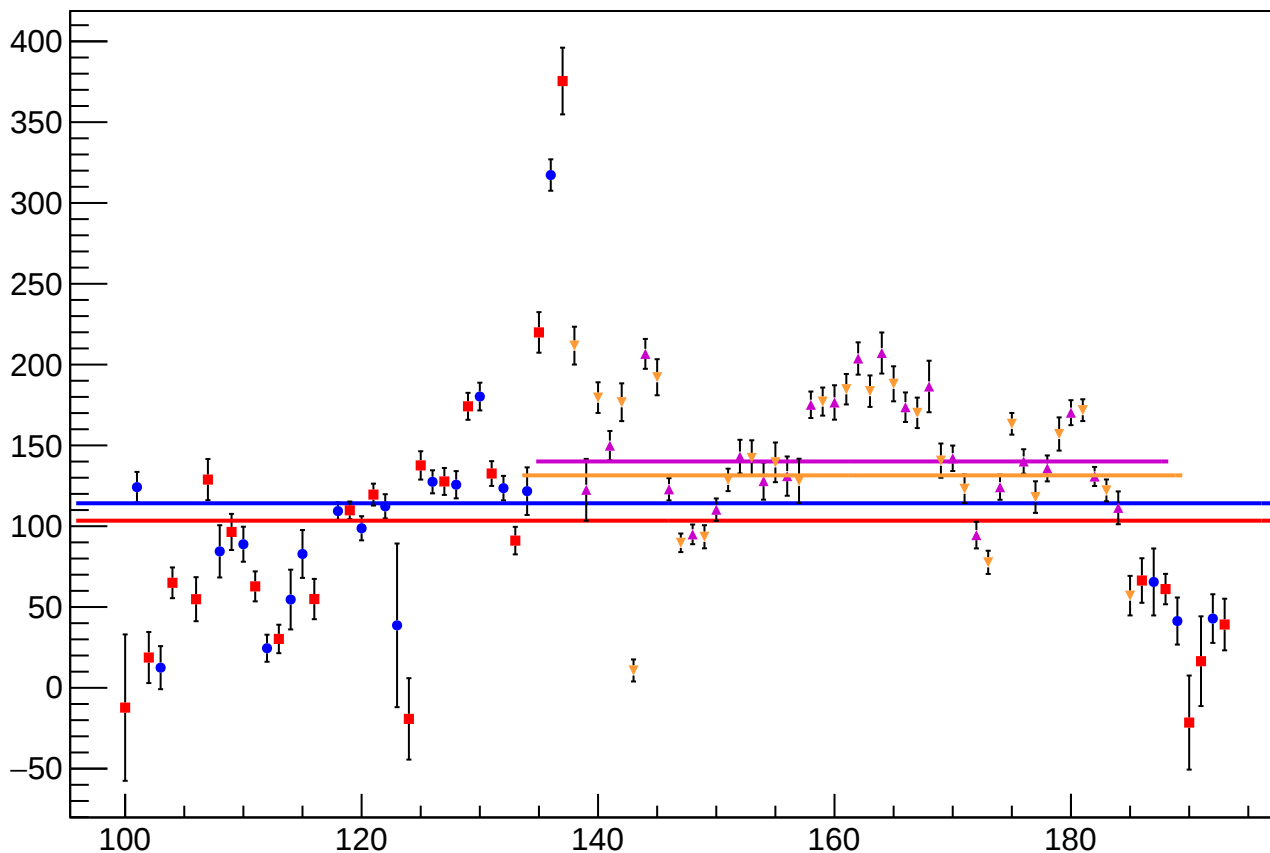
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 447.387 $\pm$ 2.881 χ^2 /NDF: 2459.4/19
 Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24
 Right Out: 455.497 $\pm$ 2.248 χ^2 /NDF: 3813.7/23
 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: 452.429 $\pm$ 1.772 χ^2 /NDF: 6278.0/43
 In: 388.199 $\pm$ 1.644 χ^2 /NDF:6483.7/42
 Out: 389.601 $\pm$ 1.478 χ^2 /NDF:10831.2/48
 All: 388.975 $\pm$ 1.099 χ^2 /NDF: 17315.3/91

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 114.196 ± 2.170 $\chi^2/\text{NDF}: 761.0/19$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 103.424 ± 2.095 $\chi^2/\text{NDF}: 646.9/23$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

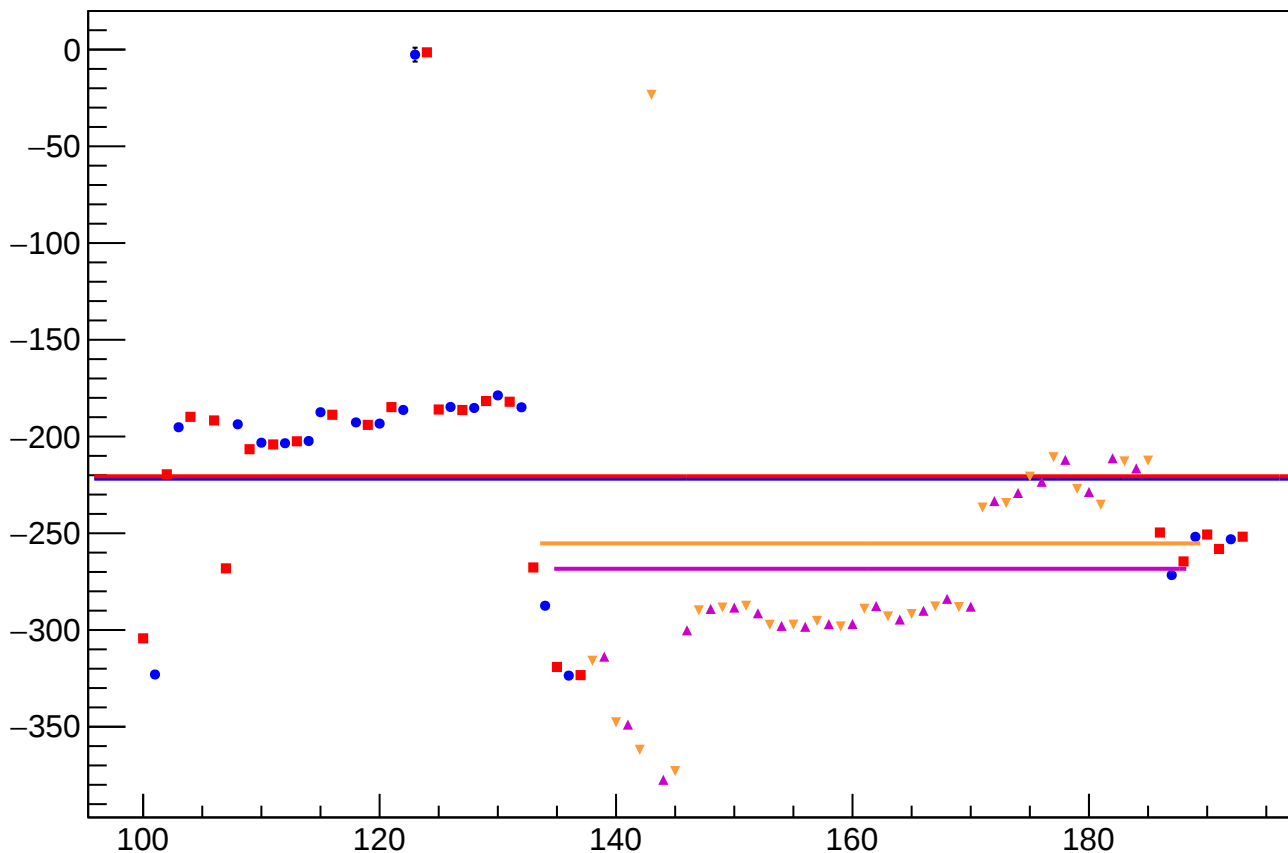
Right: 108.622 ± 1.507 $\chi^2/\text{NDF}: 1420.7/43$

In: 129.554 ± 1.383 $\chi^2/\text{NDF}: 1162.0/42$

Out: 120.114 ± 1.333 $\chi^2/\text{NDF}: 1562.8/48$

All: 124.660 ± 0.960 $\chi^2/\text{NDF}: 2749.0/91$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -221.777 $\pm$ 0.128 χ^2 /NDF: 155816.2/19

Left Out: -255.232 $\pm$ 0.082 χ^2 /NDF: 728016.7/24

Right Out: -220.554 $\pm$ 0.118 χ^2 /NDF: 136234.2/23

Left In: -268.353 $\pm$ 0.084 χ^2 /NDF: 262479.3/22

Left: -261.661 $\pm$ 0.059 χ^2 /NDF: 1003051.2/47

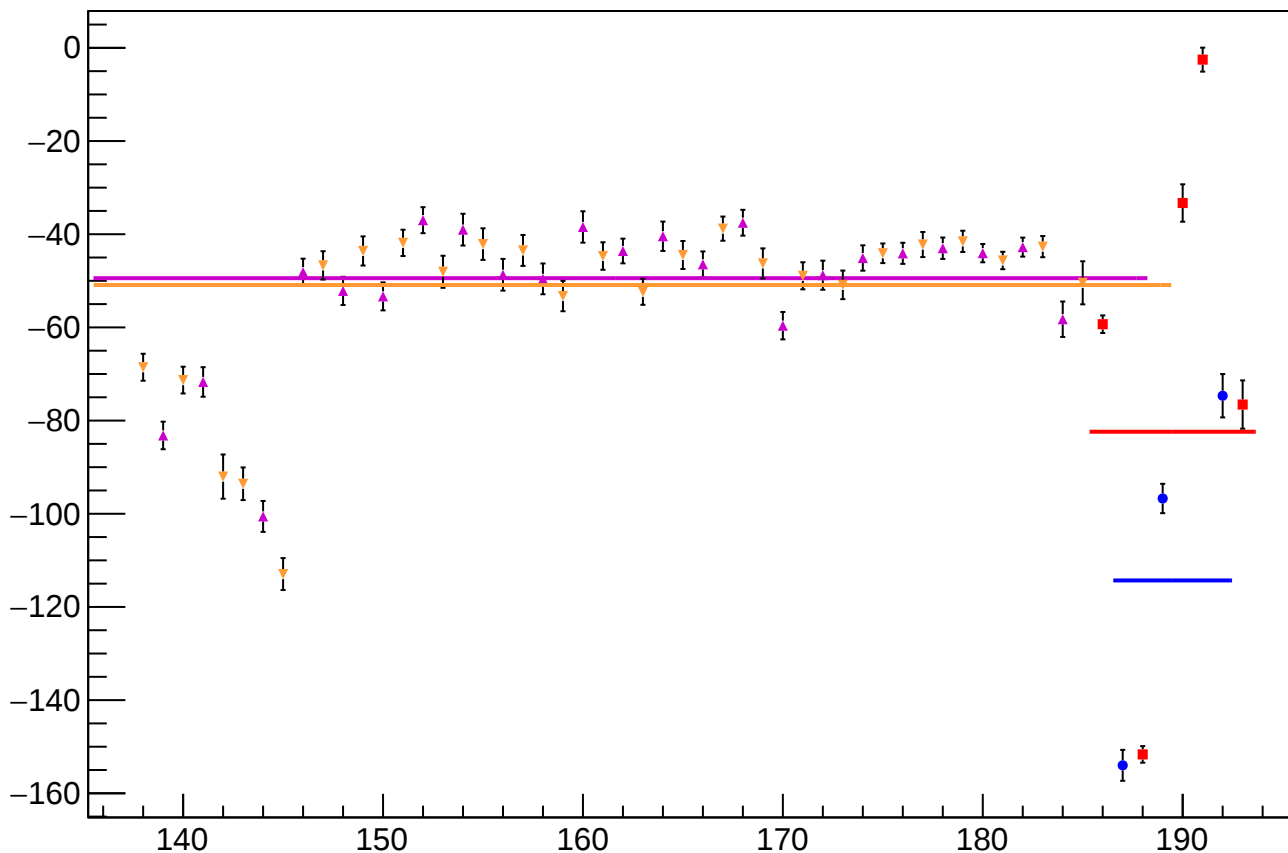
Right: -221.117 $\pm$ 0.087 χ^2 /NDF: 292099.5/43

In: -254.440 $\pm$ 0.070 χ^2 /NDF: 510963.4/42

Out: -243.988 $\pm$ 0.067 χ^2 /NDF: 922293.7/48

All: -249.013 $\pm$ 0.049 χ^2 /NDF: 1444824.9/91

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected

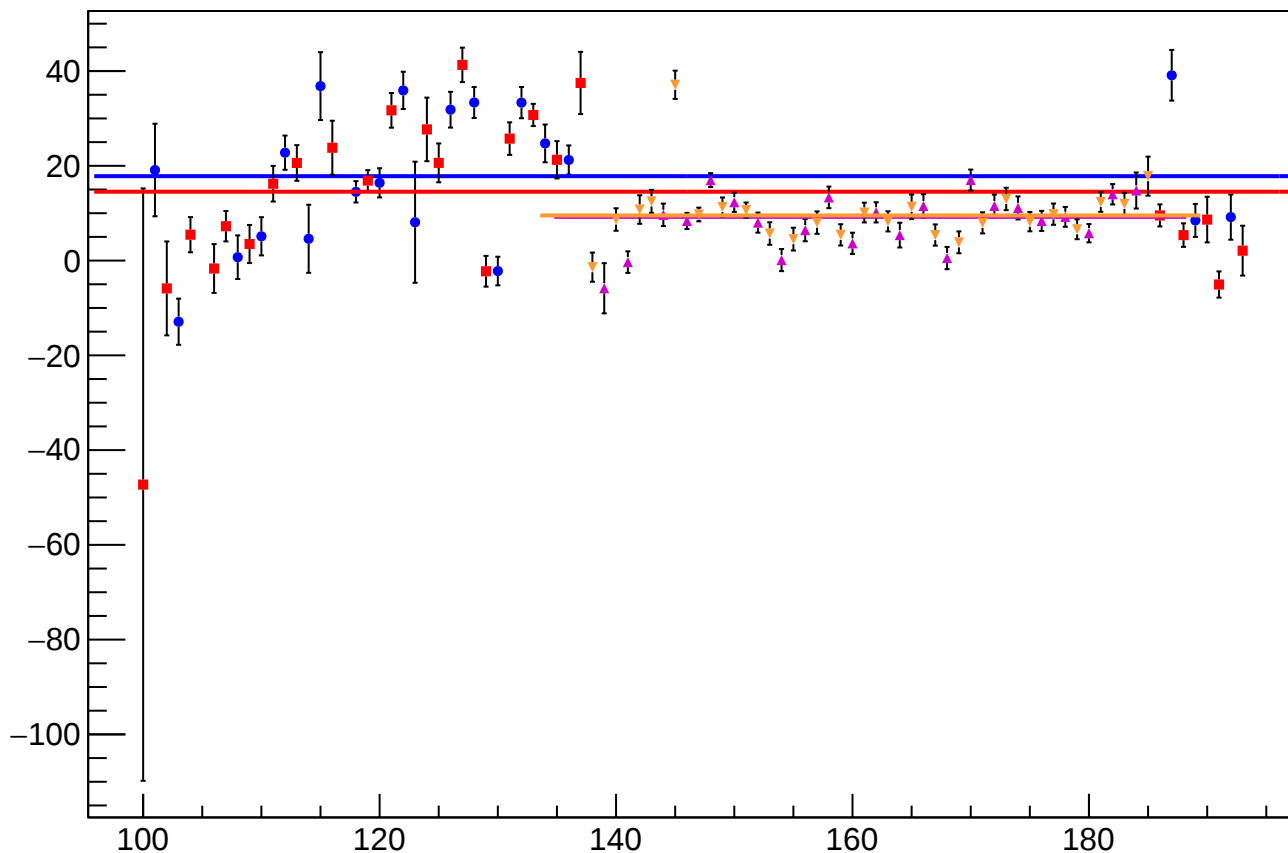


Right In: -114.313 ± 2.051 $\chi^2/\text{NDF}: 246.9/2$
 Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$
 Right Out: -82.391 ± 1.086 $\chi^2/\text{NDF}: 2780.9/4$
 Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$
 Right: -89.386 ± 0.960 $\chi^2/\text{NDF}: 3217.0/7$
 In: -54.298 ± 0.562 $\chi^2/\text{NDF}: 1716.2/25$
 Out: -57.749 ± 0.507 $\chi^2/\text{NDF}: 4199.8/29$

All: -56.200 ± 0.376 $\chi^2/\text{NDF}: 5936.8/55$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.814 $\pm$ 0.862 χ^2 /NDF: 233.1/19

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 14.535 $\pm$ 0.726 χ^2 /NDF: 298.6/23

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

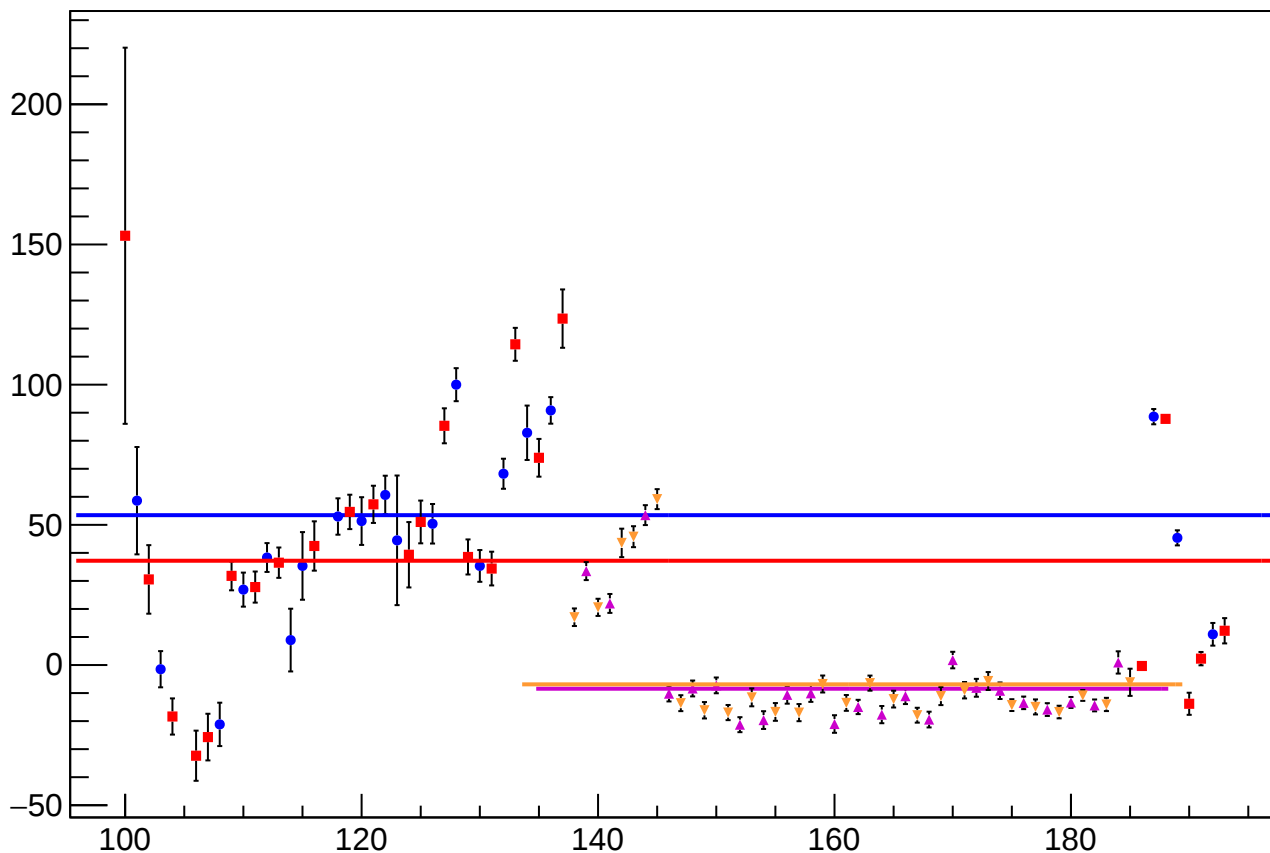
Right: 15.896 $\pm$ 0.555 χ^2 /NDF: 540.2/43

In: 11.145 $\pm$ 0.407 χ^2 /NDF:434.1/42

Out: 10.901 $\pm$ 0.380 χ^2 /NDF:467.5/48

All: 11.015 $\pm$ 0.278 χ^2 /NDF: 901.8/91

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 53.453+/-1.206 χ^2/NDF : 650.1/19

Left Out: -6.888+/-0.571 χ^2/NDF : 914.2/24

Right Out: 37.198+/-0.790 χ^2/NDF : 2823.9/23

Left In: -8.451+/-0.580 χ^2/NDF : 688.9/22

Left: -7.658+/-0.407 χ^2/NDF : 1606.8/47

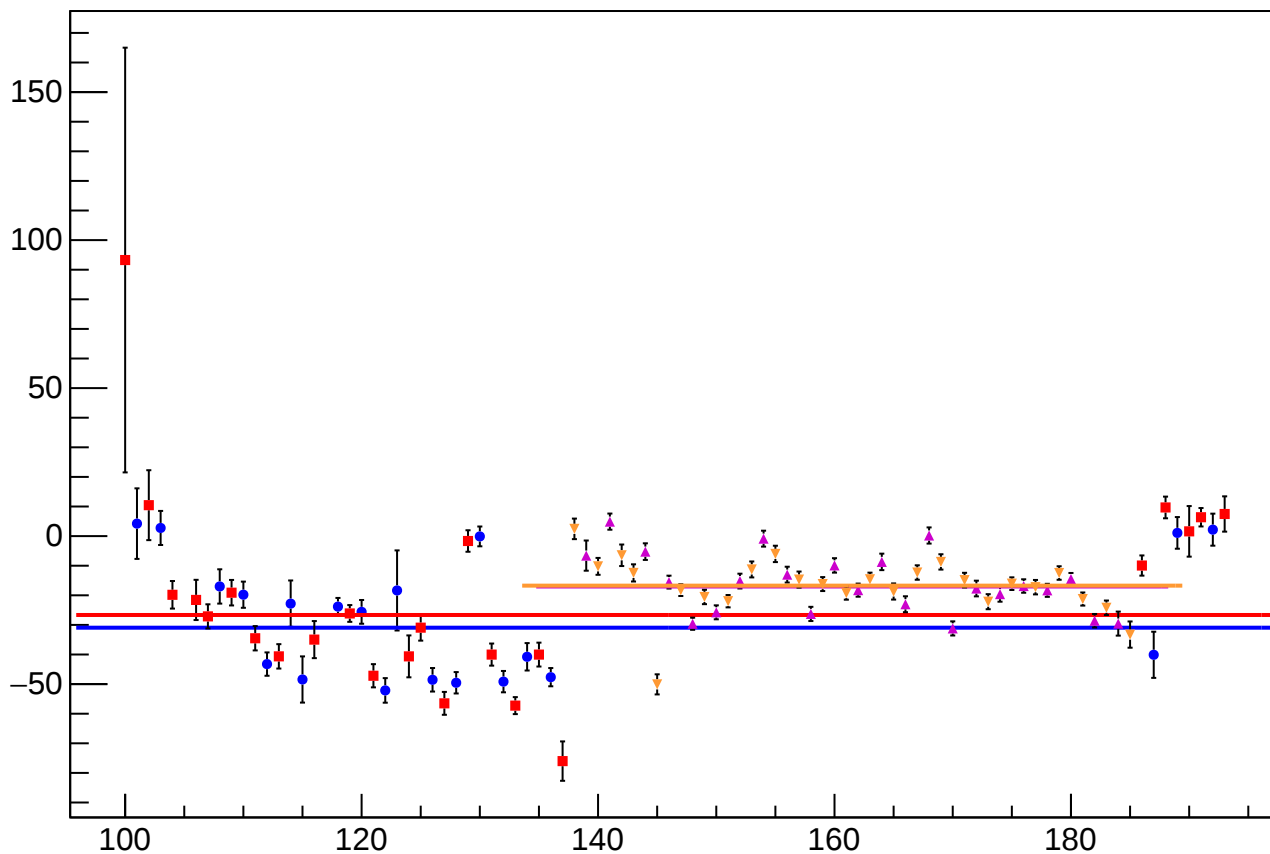
Right: 42.080+/-0.661 χ^2/NDF : 3601.1/43

In: 3.172+/-0.523 χ^2/NDF : 3479.2/42

Out: 8.237+/-0.463 χ^2/NDF : 5783.4/48

All: 6.010+/-0.346 χ^2/NDF : 9315.2/91

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.941 ± 1.000 χ^2/NDF : 370.9/19

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -26.646 ± 0.870 χ^2/NDF : 646.0/23

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

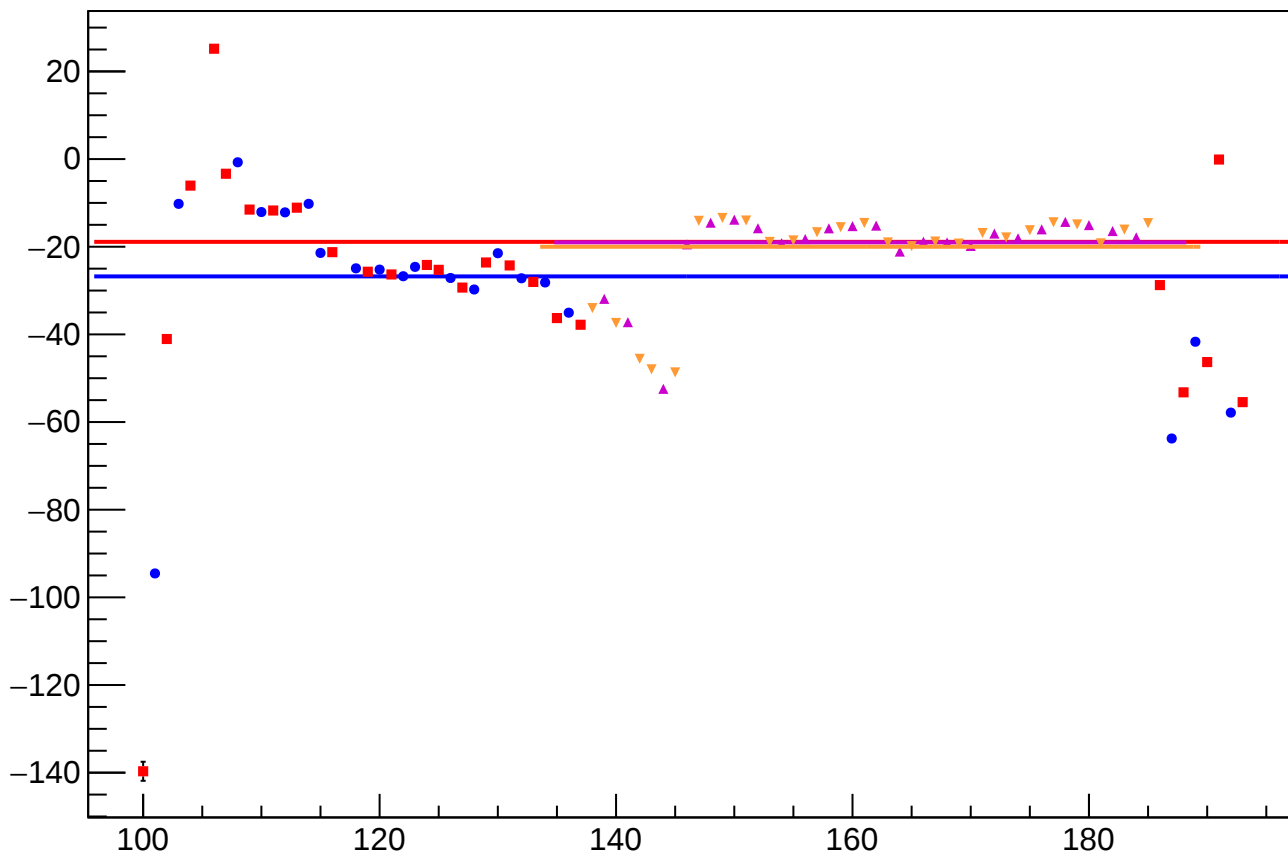
Right: -28.498 ± 0.656 χ^2/NDF : 1027.4/43

In: -20.004 ± 0.463 χ^2/NDF : 850.8/42

Out: -19.242 ± 0.438 χ^2/NDF : 966.1/48

All: -19.602 ± 0.318 χ^2/NDF : 1818.4/91

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -26.768 $\pm$ 0.054 χ^2 /NDF: 101357.6/19

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF: 145623.8/24

Right Out: -18.886 $\pm$ 0.043 χ^2 /NDF: 218205.7/23

Left In: -19.007 $\pm$ 0.024 χ^2 /NDF: 90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2 /NDF: 237400.2/47

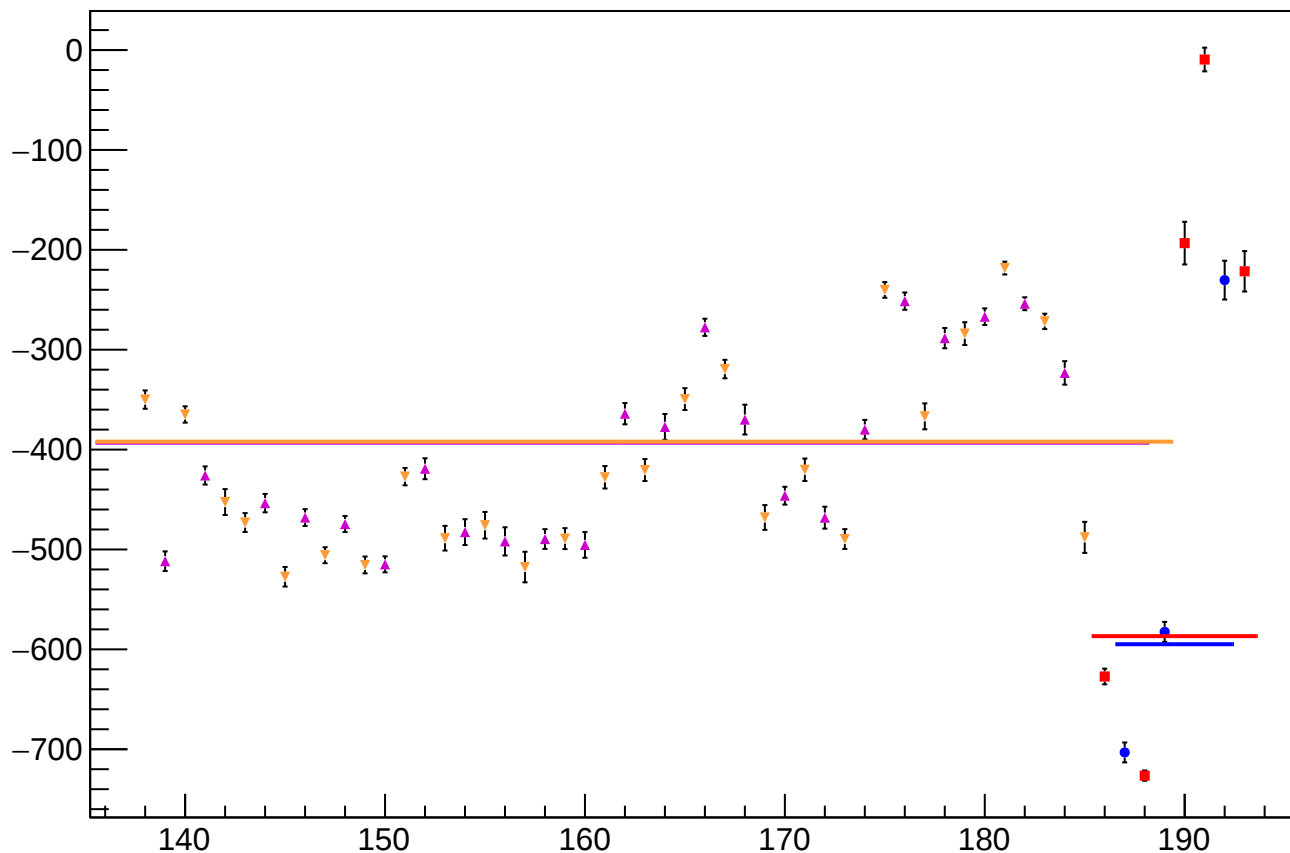
Right: -21.988 $\pm$ 0.034 χ^2 /NDF: 332578.4/43

In: -20.266 $\pm$ 0.022 χ^2 /NDF: 209662.0/42

Out: -19.755 $\pm$ 0.021 χ^2 /NDF: 364346.9/48

All: -19.997 $\pm$ 0.015 χ^2 /NDF: 574302.8/91

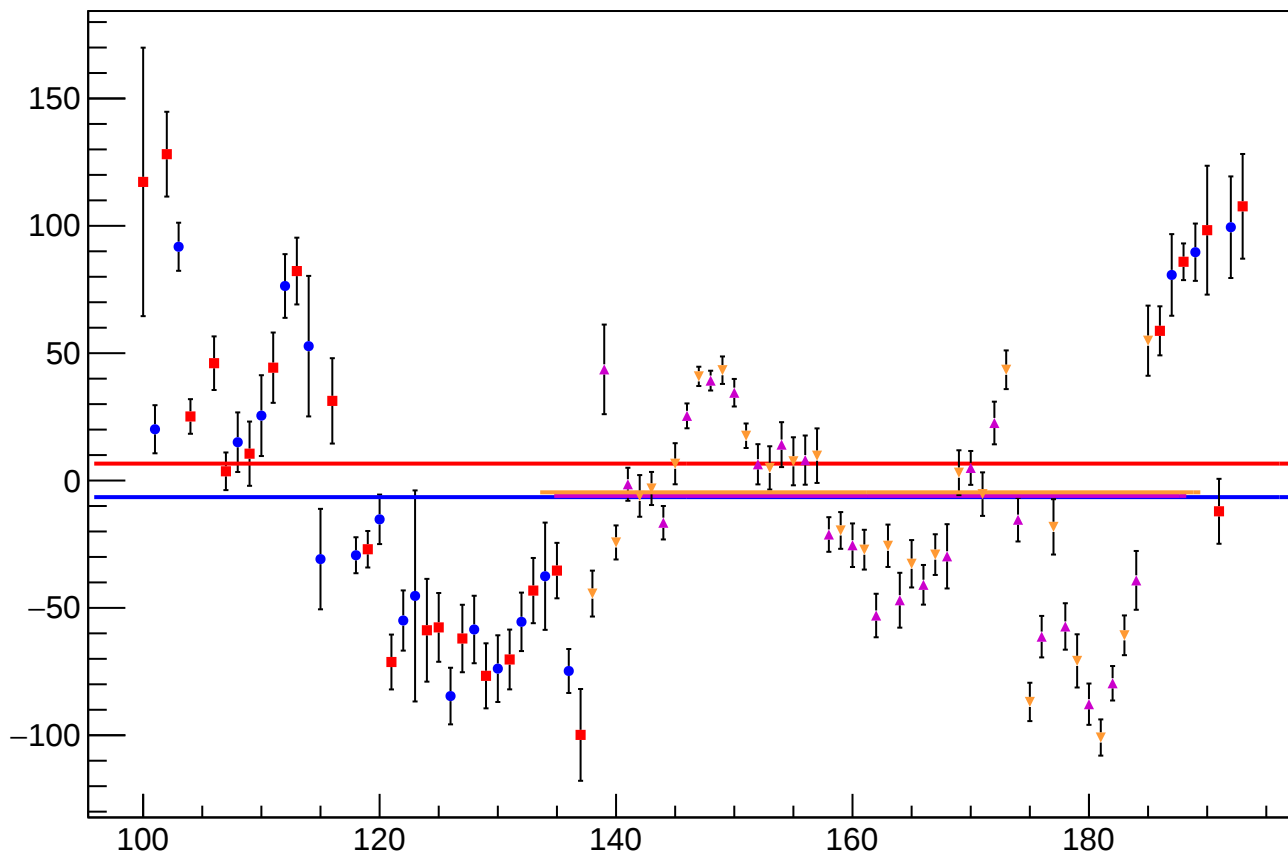
reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -594.875+/-6.634 χ^2/NDF : 472.3/2
 Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24
 Right Out: -586.787+/-3.916 χ^2/NDF : 3789.4/4
 Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47
 Right: -588.877+/-3.372 χ^2/NDF : 4262.8/7
 In: -410.007+/-1.920 χ^2/NDF : 3573.0/25
 Out: -431.277+/-1.757 χ^2/NDF : 8481.5/29
 All: -421.579+/-1.296 χ^2/NDF : 12121.3/55

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.516 ± 2.677 $\chi^2/\text{NDF}: 507.9/19$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 6.646 ± 2.314 $\chi^2/\text{NDF}: 597.0/23$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

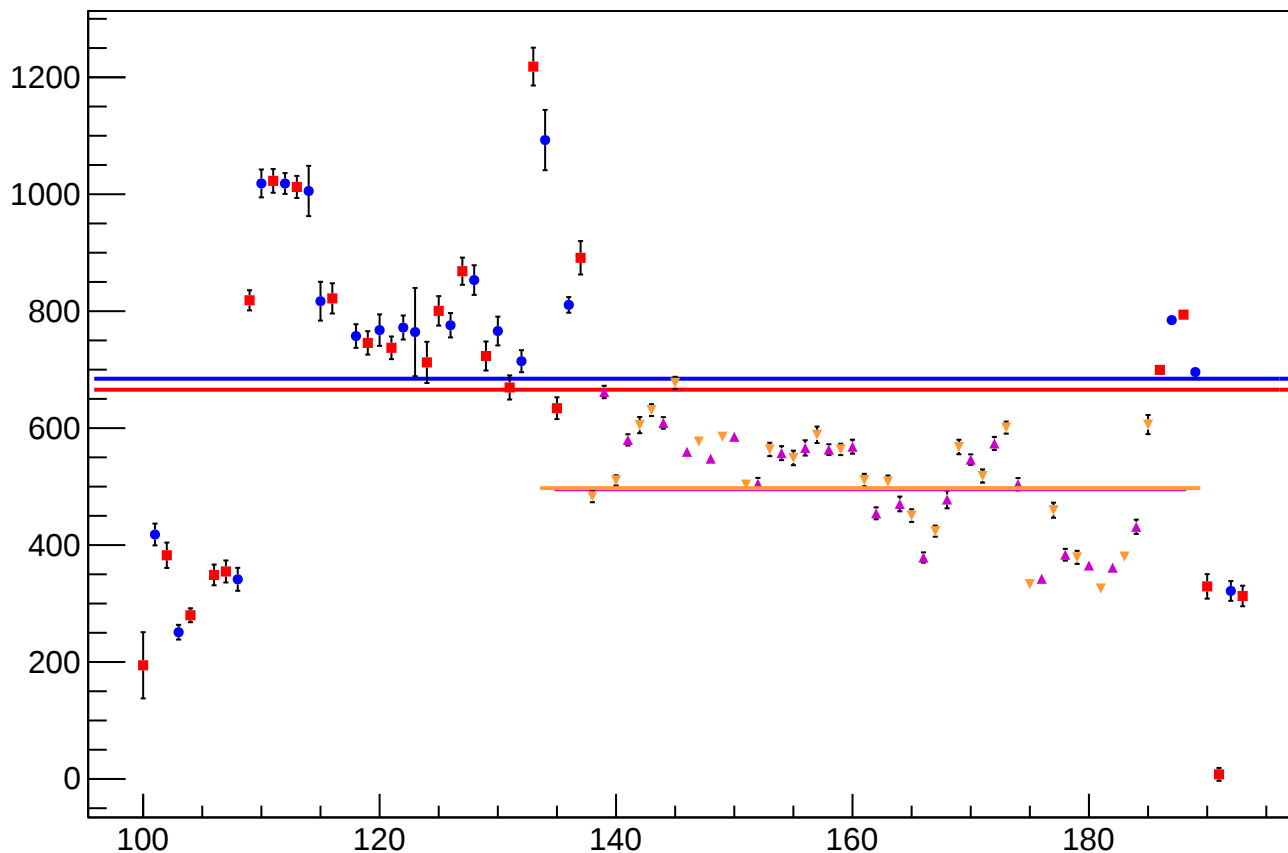
Right: 1.017 ± 1.750 $\chi^2/\text{NDF}: 1118.7/43$

In: -6.139 ± 1.319 $\chi^2/\text{NDF}: 1162.0/42$

Out: -1.408 ± 1.236 $\chi^2/\text{NDF}: 1386.8/48$

All: -3.620 ± 0.902 $\chi^2/\text{NDF}: 2555.7/91$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 684.498 ± 3.733 $\chi^2/\text{NDF}: 3198.8/19$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 665.698 ± 2.662 $\chi^2/\text{NDF}: 8370.8/23$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

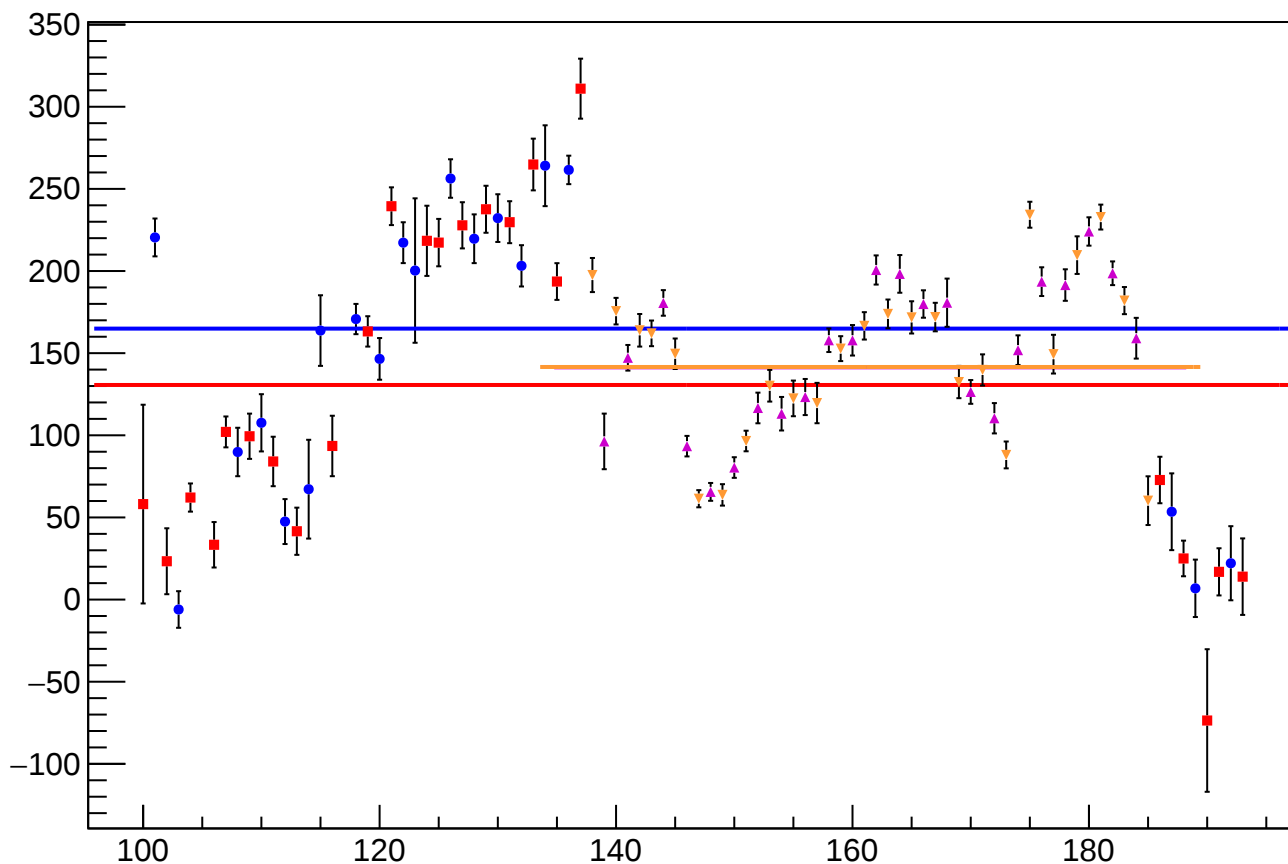
Right: 672.035 ± 2.167 $\chi^2/\text{NDF}: 11586.4/43$

In: 537.361 ± 1.758 $\chi^2/\text{NDF}: 7448.7/42$

Out: 556.785 ± 1.581 $\chi^2/\text{NDF}: 13572.5/48$

All: 548.095 ± 1.176 $\chi^2/\text{NDF}: 21088.7/91$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 164.947 ± 3.131 $\chi^2/\text{NDF}: 790.7/19$

Left Out: 141.588 ± 1.698 $\chi^2/\text{NDF}: 959.6/24$

Right Out: 130.634 ± 2.790 $\chi^2/\text{NDF}: 952.3/23$

Left In: 141.360 ± 1.748 $\chi^2/\text{NDF}: 741.2/22$

Left: 141.478 ± 1.218 $\chi^2/\text{NDF}: 1700.8/47$

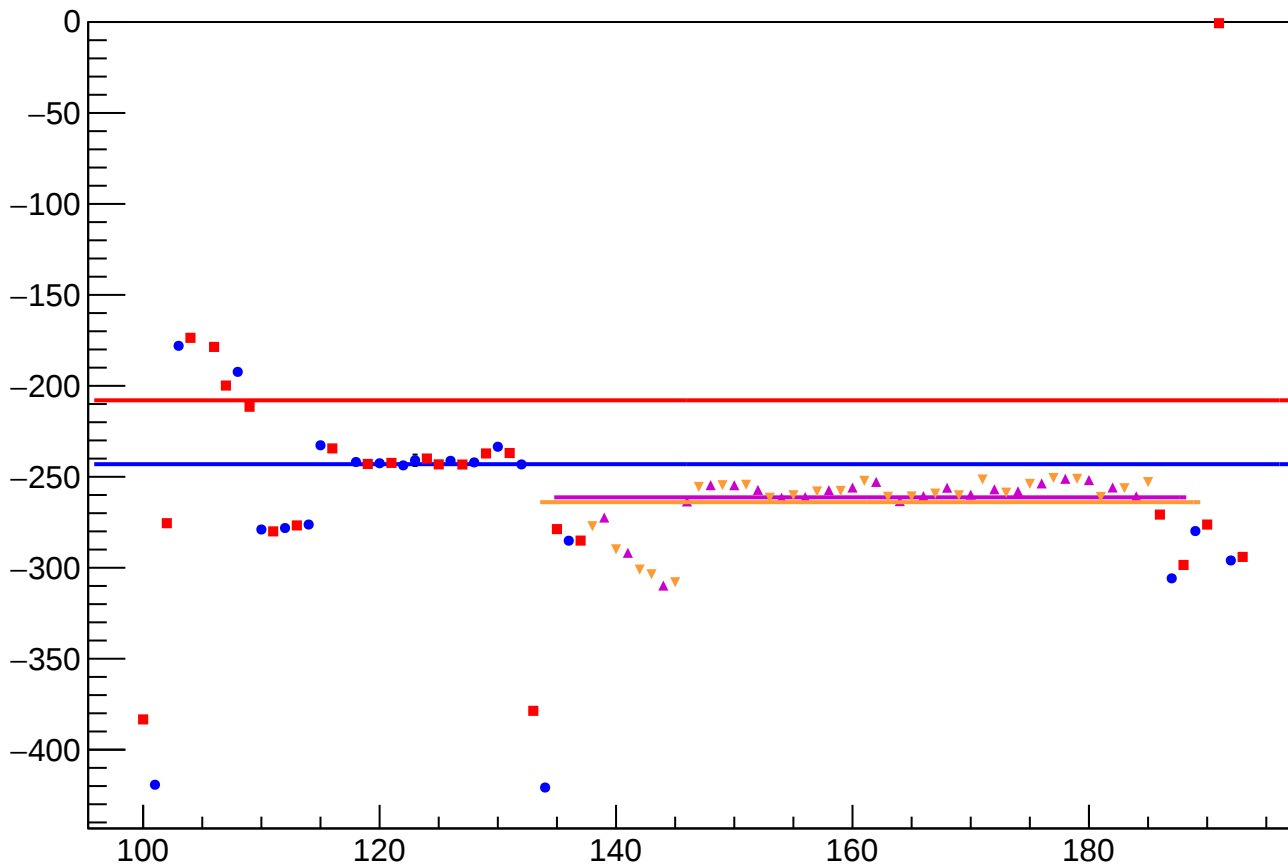
Right: 145.819 ± 2.083 $\chi^2/\text{NDF}: 1810.0/43$

In: 146.965 ± 1.526 $\chi^2/\text{NDF}: 1575.2/42$

Out: 138.626 ± 1.451 $\chi^2/\text{NDF}: 1923.1/48$

All: 142.584 ± 1.051 $\chi^2/\text{NDF}: 3514.0/91$

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -243.062 ± 0.153 $\chi^2/\text{NDF}: 177559.7/19$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -207.954 ± 0.133 $\chi^2/\text{NDF}: 439970.0/23$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

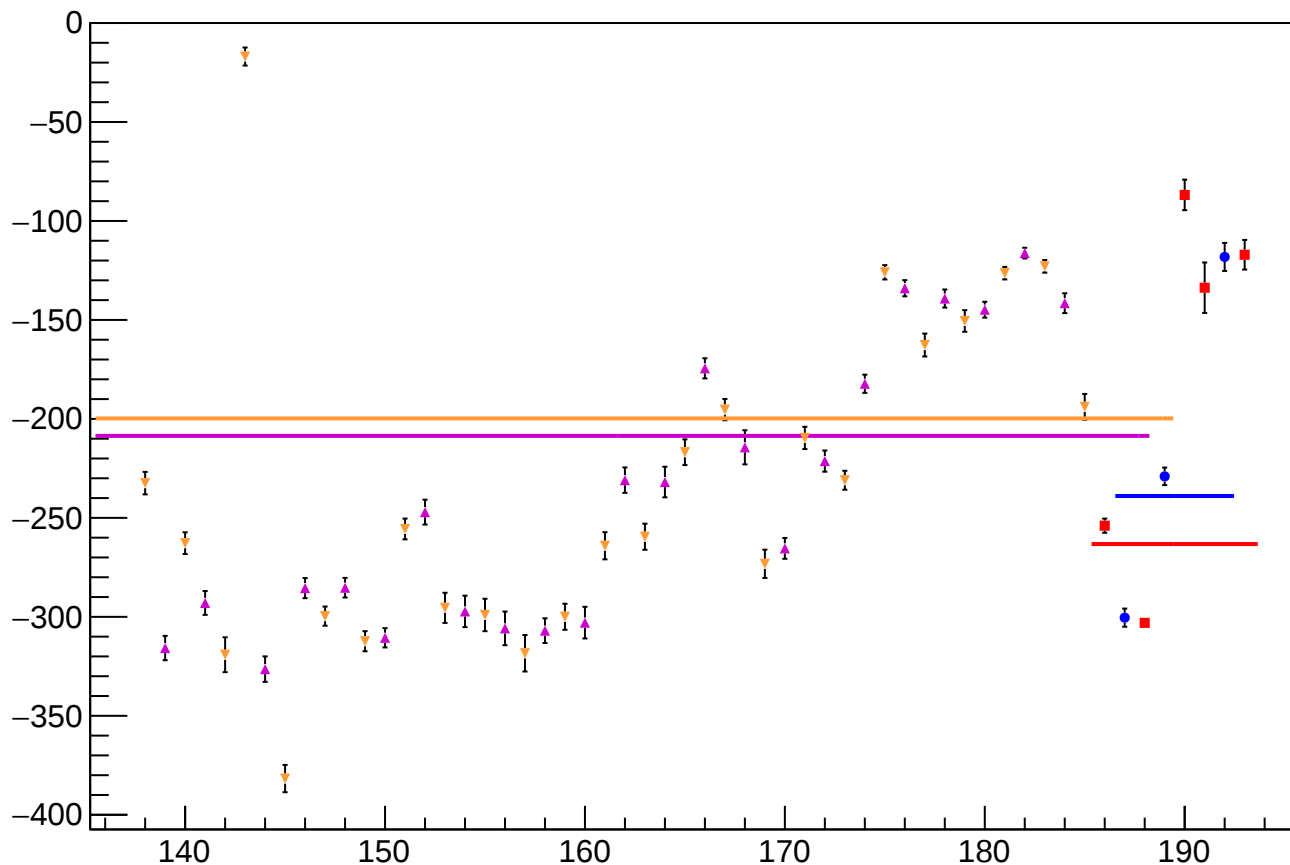
Right: -223.058 ± 0.100 $\chi^2/\text{NDF}: 647474.8/43$

In: -257.228 ± 0.072 $\chi^2/\text{NDF}: 211916.3/42$

Out: -248.739 ± 0.069 $\chi^2/\text{NDF}: 608012.0/48$

All: -252.808 ± 0.050 $\chi^2/\text{NDF}: 827110.3/91$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -238.942 $\pm$ 2.907 χ^2 /NDF: 475.4/2

Left Out: -199.741 $\pm$ 1.061 χ^2 /NDF:6361.5/24

Right Out: -263.226 $\pm$ 1.837 χ^2 /NDF: 1295.6/4

Left In: -208.579 $\pm$ 1.082 χ^2 /NDF:4805.1/22

Left: -204.073 $\pm$ 0.758 χ^2 /NDF: 11200.6/47

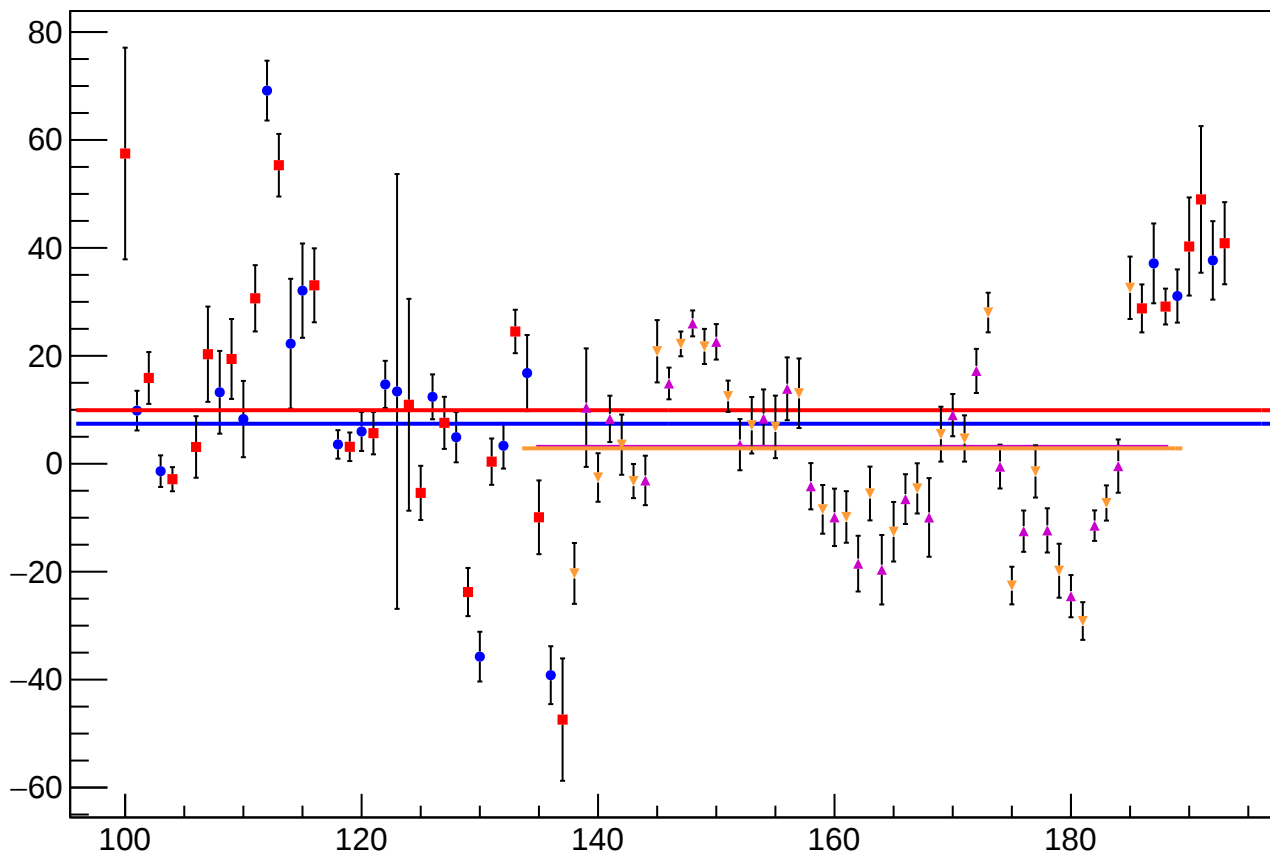
Right: -256.298 $\pm$ 1.553 χ^2 /NDF: 1820.9/7

In: -212.275 $\pm$ 1.014 χ^2 /NDF:5376.4/25

Out: -215.626 $\pm$ 0.919 χ^2 /NDF:8552.7/29

All: -214.115 $\pm$ 0.681 χ^2 /NDF: 13935.0/55

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.416 ± 1.058 χ^2/NDF : 372.8/19

Left Out: 2.853 ± 0.820 χ^2/NDF : 419.8/24

Right Out: 9.921 ± 0.976 χ^2/NDF : 342.3/23

Left In: 3.136 ± 0.857 χ^2/NDF : 319.8/22

Left: 2.988 ± 0.592 χ^2/NDF : 739.7/47

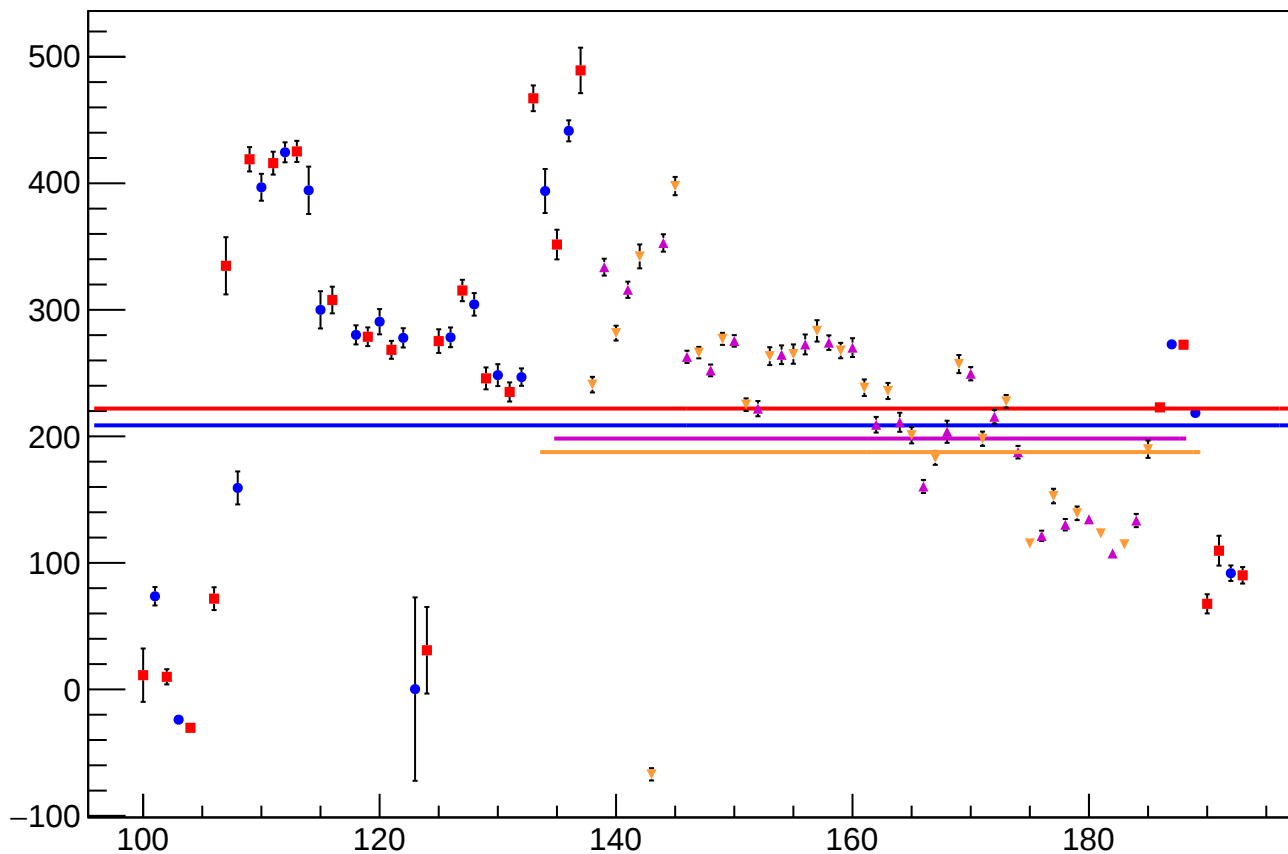
Right: 8.769 ± 0.717 χ^2/NDF : 718.1/43

In: 4.832 ± 0.666 χ^2/NDF : 702.5/42

Out: 5.777 ± 0.628 χ^2/NDF : 792.9/48

All: 5.332 ± 0.457 χ^2/NDF : 1496.4/91

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.691 $\pm$ 1.540 χ^2 /NDF: 7390.8/19

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 221.985 $\pm$ 1.184 χ^2 /NDF: 10058.0/23

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

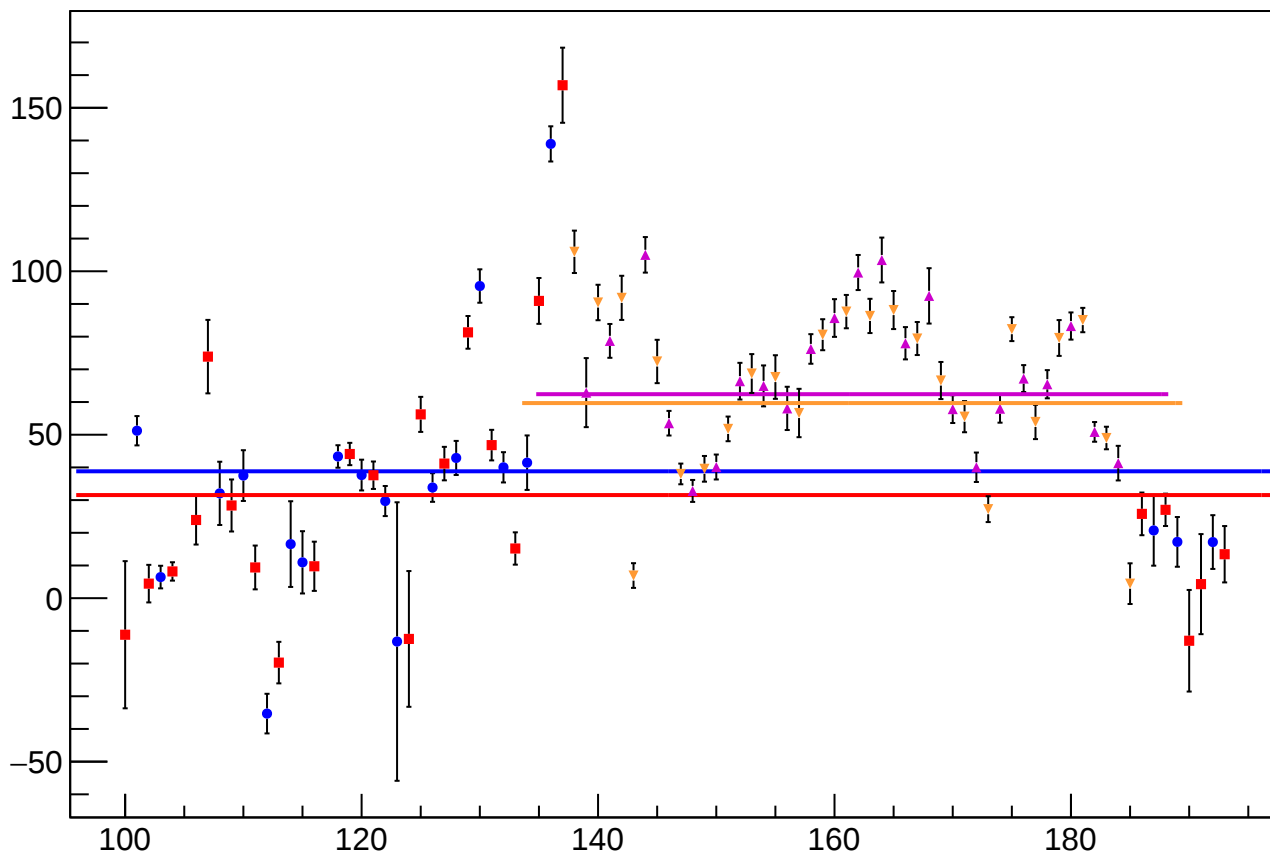
Right: 217.049 $\pm$ 0.938 χ^2 /NDF: 17495.6/43

In: 201.711 $\pm$ 0.885 χ^2 /NDF:11937.3/42

Out: 202.978 $\pm$ 0.792 χ^2 /NDF:17607.0/48

All: 202.414 $\pm$ 0.590 χ^2 /NDF: 29545.4/91

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.811 ± 1.245 χ^2/NDF : 752.9/19

Left Out: 59.682 ± 0.941 χ^2/NDF : 757.6/24

Right Out: 31.542 ± 1.176 χ^2/NDF : 568.4/23

Left In: 62.400 ± 0.974 χ^2/NDF : 406.3/22

Left: 60.993 ± 0.677 χ^2/NDF : 1167.9/47

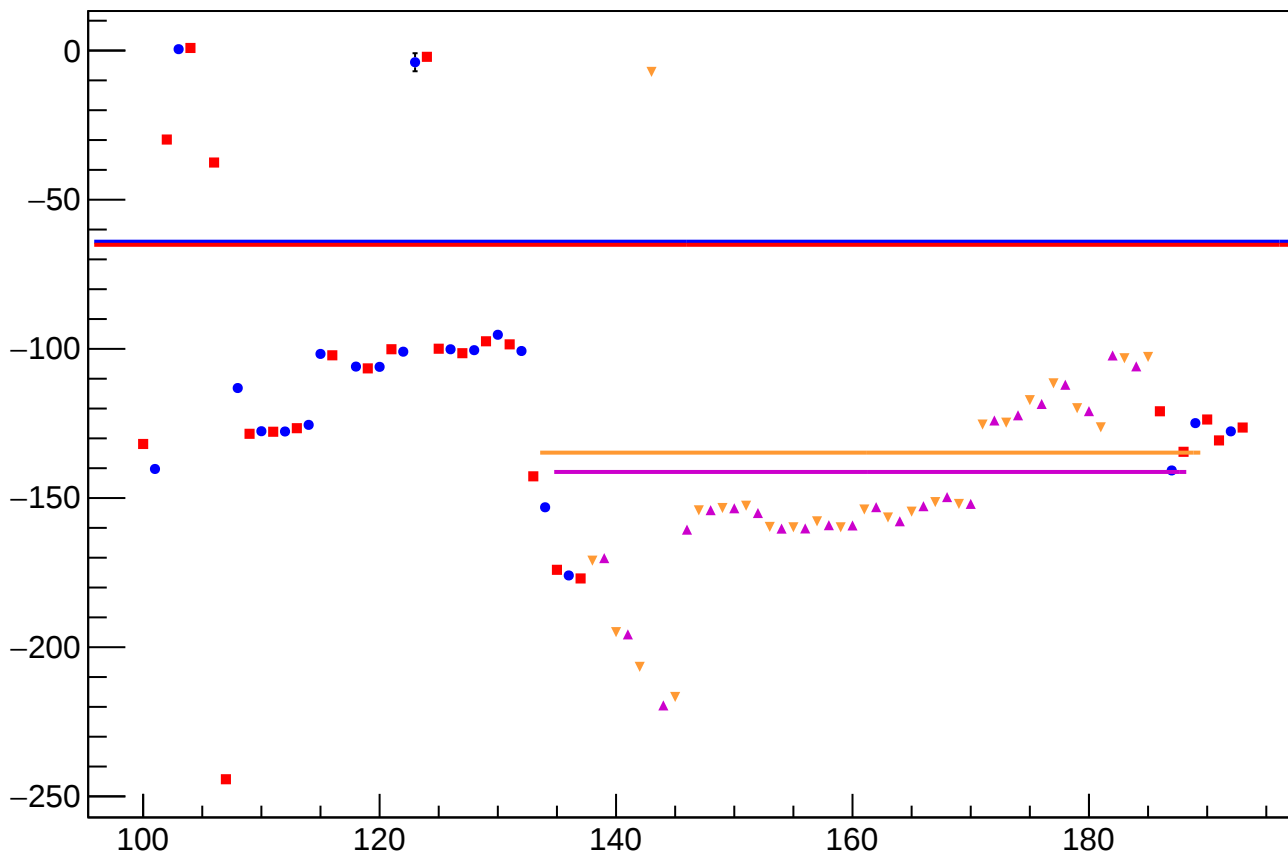
Right: 34.970 ± 0.855 χ^2/NDF : 1339.3/43

In: 53.438 ± 0.767 χ^2/NDF : 1382.0/42

Out: 48.697 ± 0.734 χ^2/NDF : 1675.3/48

All: 50.964 ± 0.531 χ^2/NDF : 3077.2/91

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -64.072 $\pm$ 0.059 χ^2 /NDF: 1217269.9/19

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -65.110 $\pm$ 0.056 χ^2 /NDF: 1212412.2/23

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

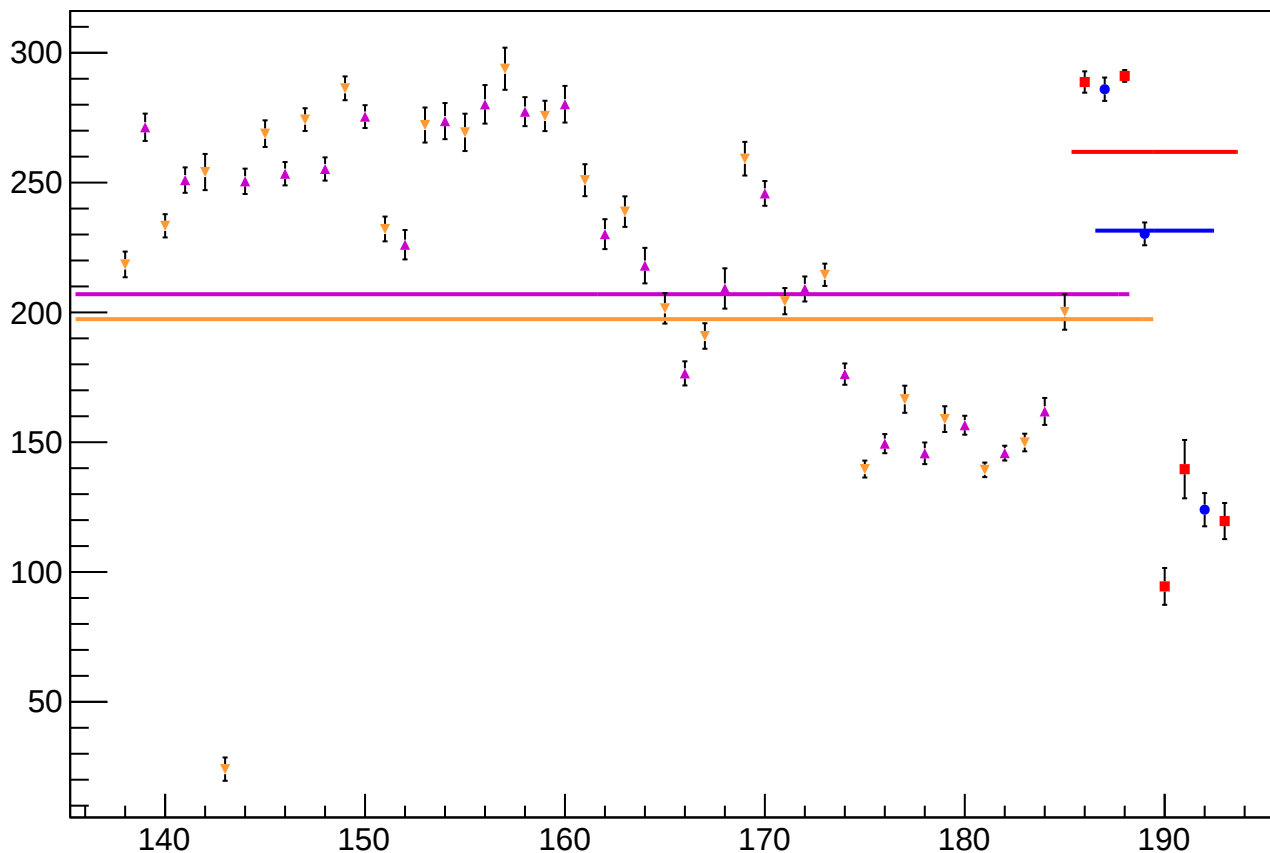
Right: -64.619 $\pm$ 0.041 χ^2 /NDF: 2429845.2/43

In: -112.632 $\pm$ 0.036 χ^2 /NDF: 2641505.0/42

Out: -107.765 $\pm$ 0.035 χ^2 /NDF: 2967480.0/48

All: -110.123 $\pm$ 0.025 χ^2 /NDF: 5618448.1/91

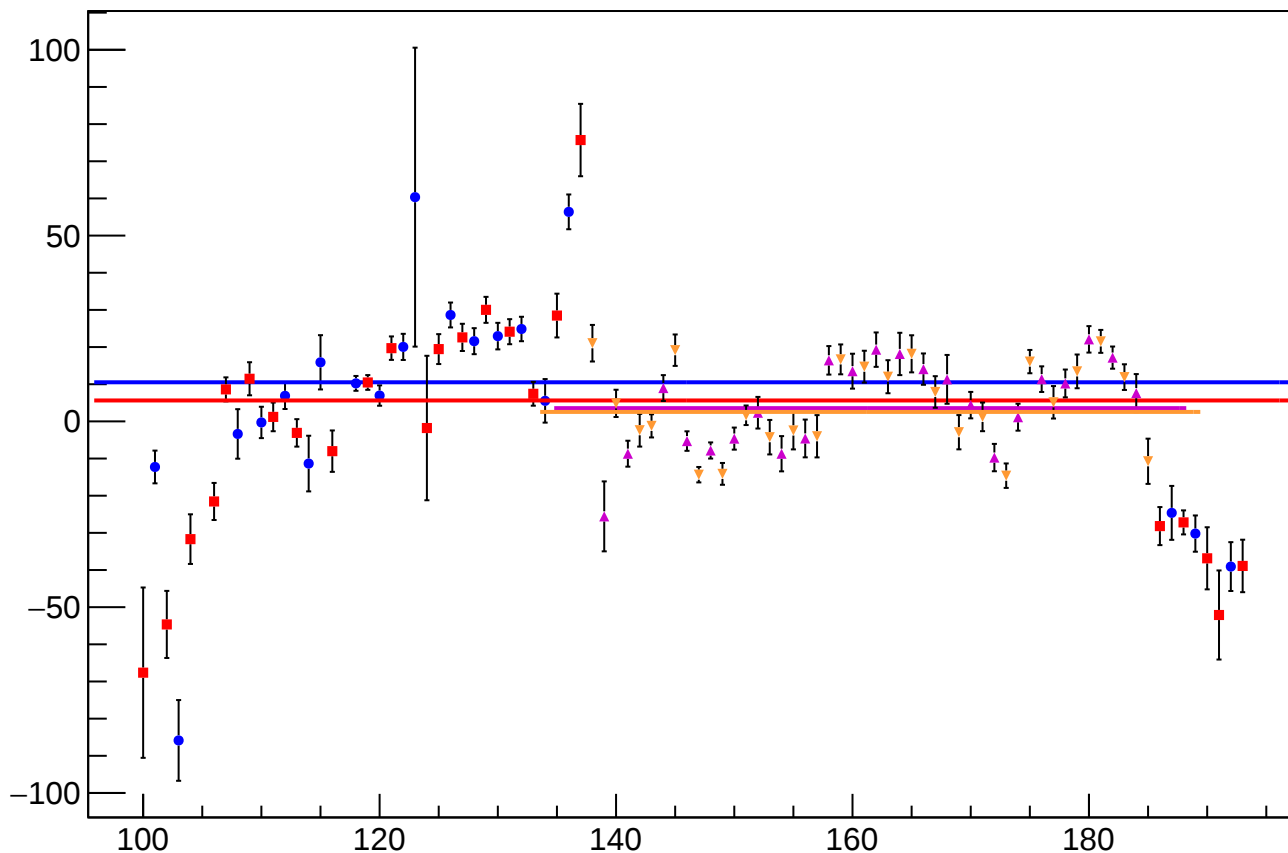
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 231.498 ± 2.821 $\chi^2/\text{NDF}: 429.1/2$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 261.826 ± 1.825 $\chi^2/\text{NDF}: 1299.8/4$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 252.877 ± 1.533 $\chi^2/\text{NDF}: 1810.4/7$
 In: 209.700 ± 0.934 $\chi^2/\text{NDF}: 3107.7/25$
 Out: 211.431 ± 0.852 $\chi^2/\text{NDF}: 6658.3/29$
 All: 210.645 ± 0.629 $\chi^2/\text{NDF}: 9767.9/55$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.522 $\pm$ 0.905 χ^2 /NDF: 454.3/19

Left Out: 2.548 $\pm$ 0.741 χ^2 /NDF: 275.4/24

Right Out: 5.629 $\pm$ 0.854 χ^2 /NDF: 571.8/23

Left In: 3.559 $\pm$ 0.774 χ^2 /NDF: 192.0/22

Left: 3.031 $\pm$ 0.535 χ^2 /NDF: 468.3/47

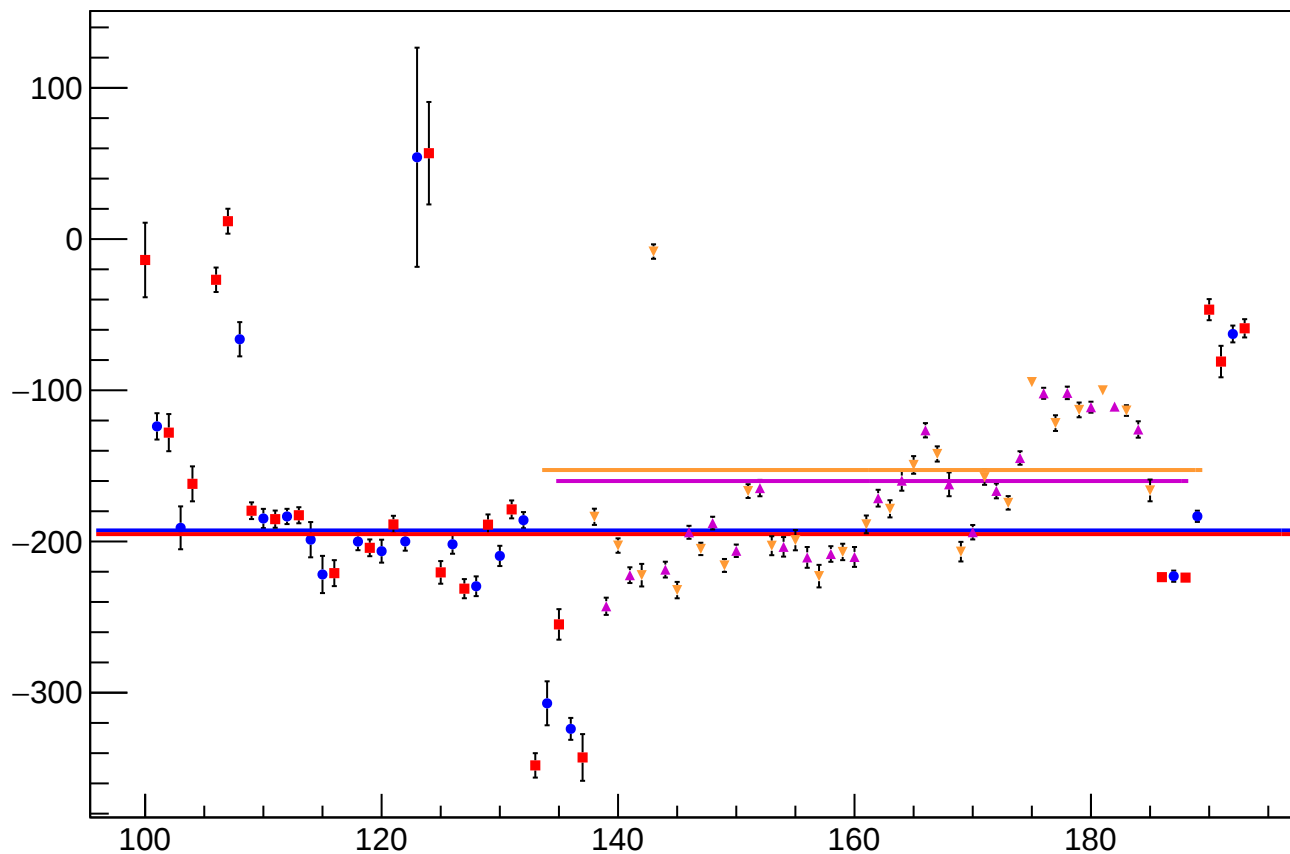
Right: 7.934 $\pm$ 0.621 χ^2 /NDF: 1041.5/43

In: 6.500 $\pm$ 0.588 χ^2 /NDF: 680.4/42

Out: 3.871 $\pm$ 0.560 χ^2 /NDF: 854.6/48

All: 5.120 $\pm$ 0.405 χ^2 /NDF: 1545.6/91

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -192.691 ± 1.433 $\chi^2/\text{NDF}: 1267.0/19$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -195.134 ± 1.124 $\chi^2/\text{NDF}: 3176.7/23$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

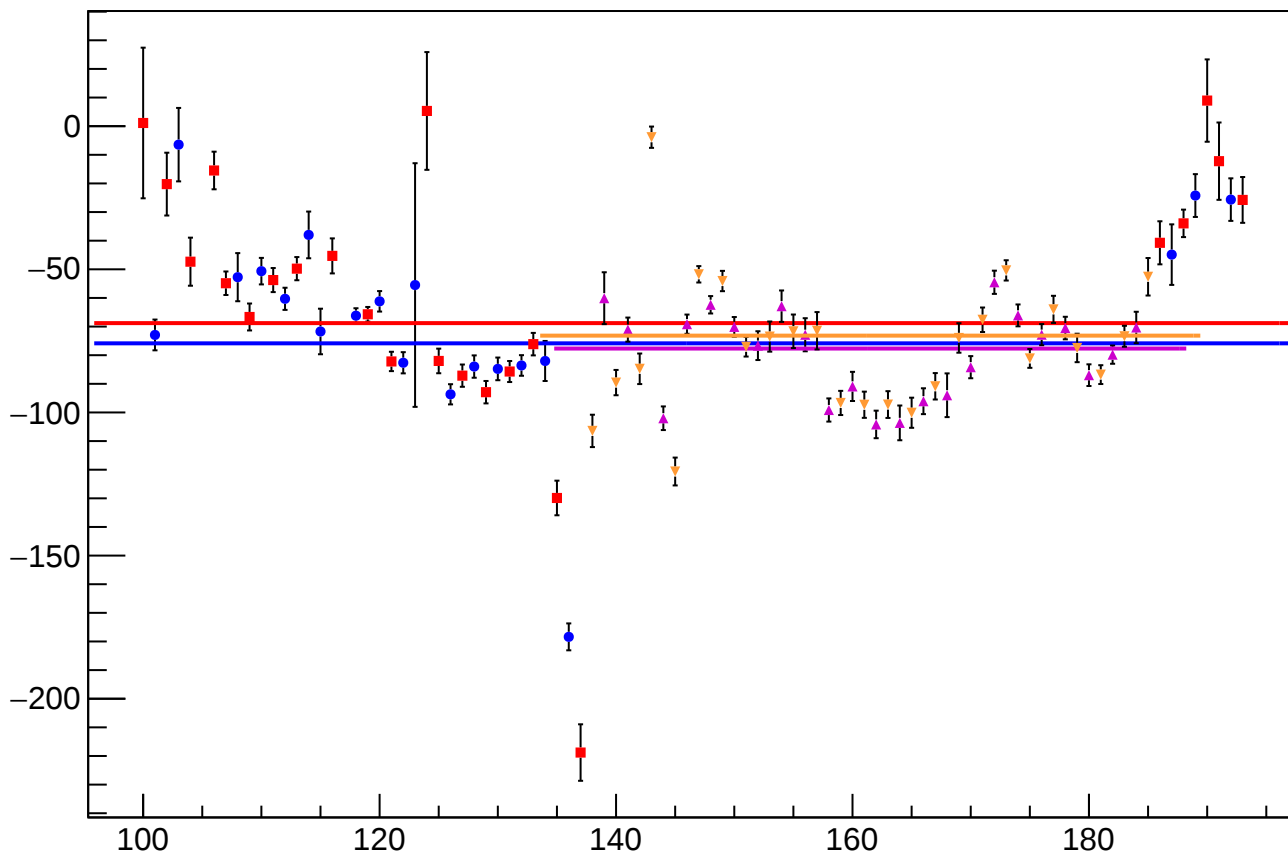
Right: -194.204 ± 0.885 $\chi^2/\text{NDF}: 4445.5/43$

In: -170.553 ± 0.814 $\chi^2/\text{NDF}: 3643.4/42$

Out: -170.764 ± 0.733 $\chi^2/\text{NDF}: 7071.8/48$

All: -170.669 ± 0.545 $\chi^2/\text{NDF}: 10715.2/91$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.857 ± 1.056 χ^2/NDF : 756.9/19

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -68.792 ± 1.006 χ^2/NDF : 760.4/23

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

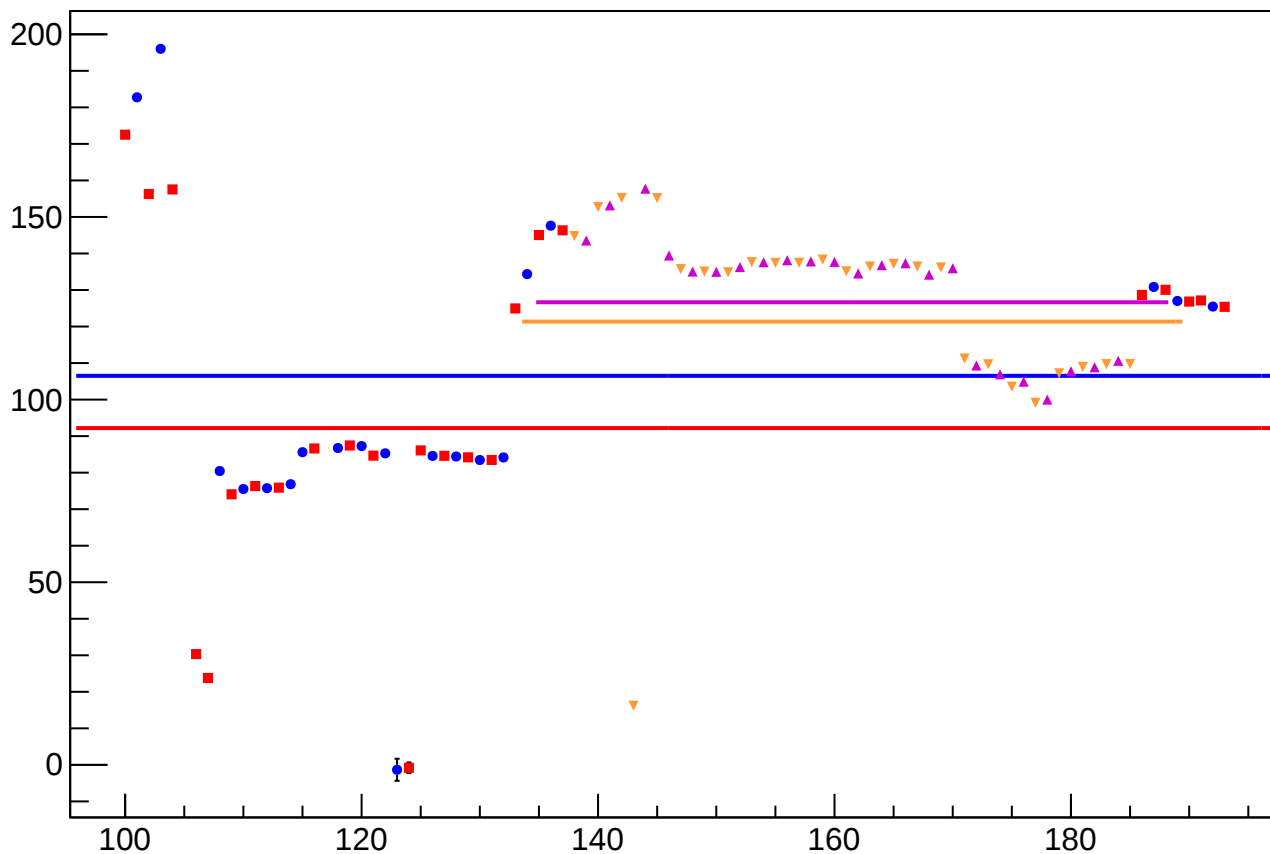
Right: -72.153 ± 0.729 χ^2/NDF : 1540.8/43

In: -76.929 ± 0.677 χ^2/NDF : 1006.9/42

Out: -71.341 ± 0.650 χ^2/NDF : 1560.0/48

All: -74.019 ± 0.469 χ^2/NDF : 2602.4/91

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 106.505 $\pm$ 0.066 χ^2 /NDF: 286195.6/19

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 92.208 $\pm$ 0.058 χ^2 /NDF: 497625.6/23

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

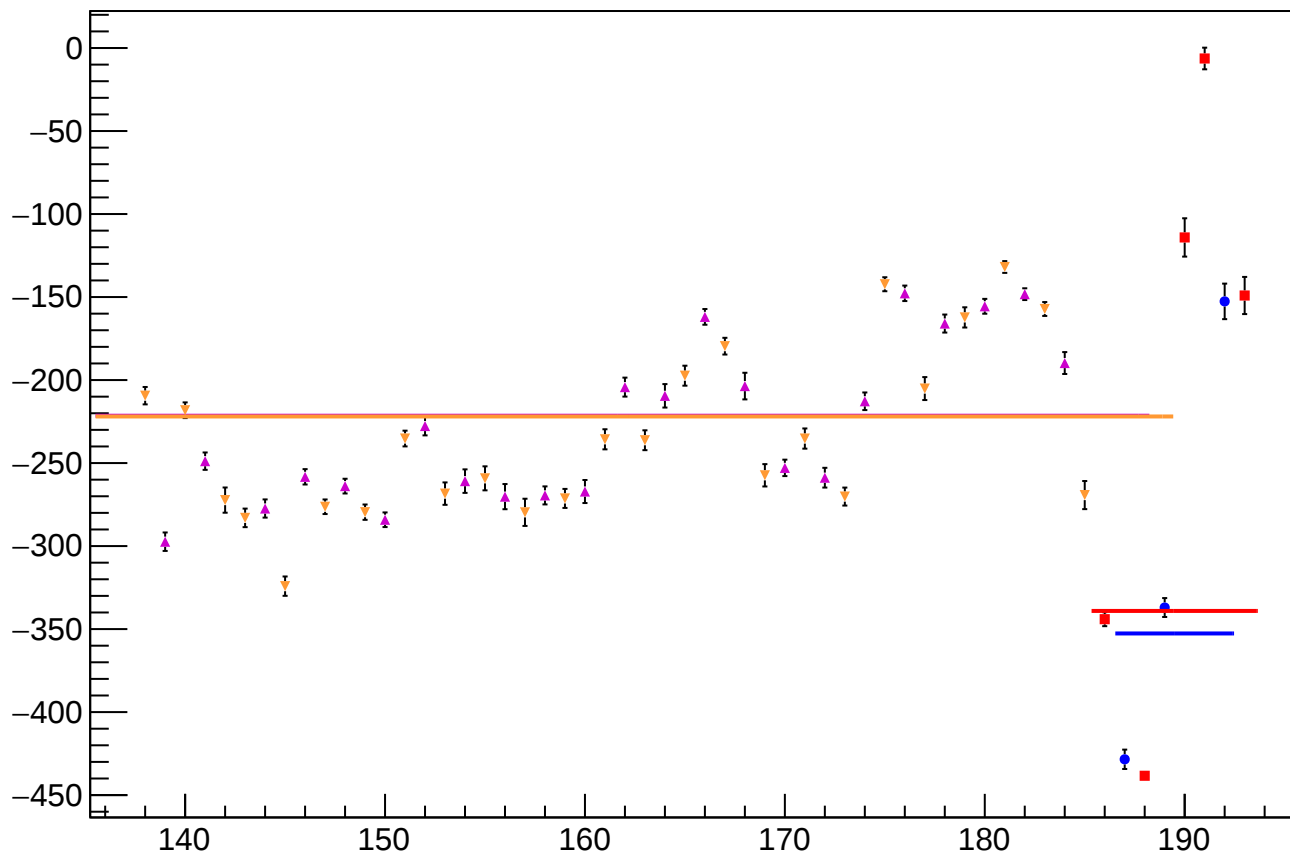
Right: 98.443 $\pm$ 0.044 χ^2 /NDF: 810120.2/43

In: 121.053 $\pm$ 0.035 χ^2 /NDF: 516108.3/42

Out: 111.913 $\pm$ 0.033 χ^2 /NDF: 1149049.3/48

All: 116.246 $\pm$ 0.024 χ^2 /NDF: 1701224.7/91

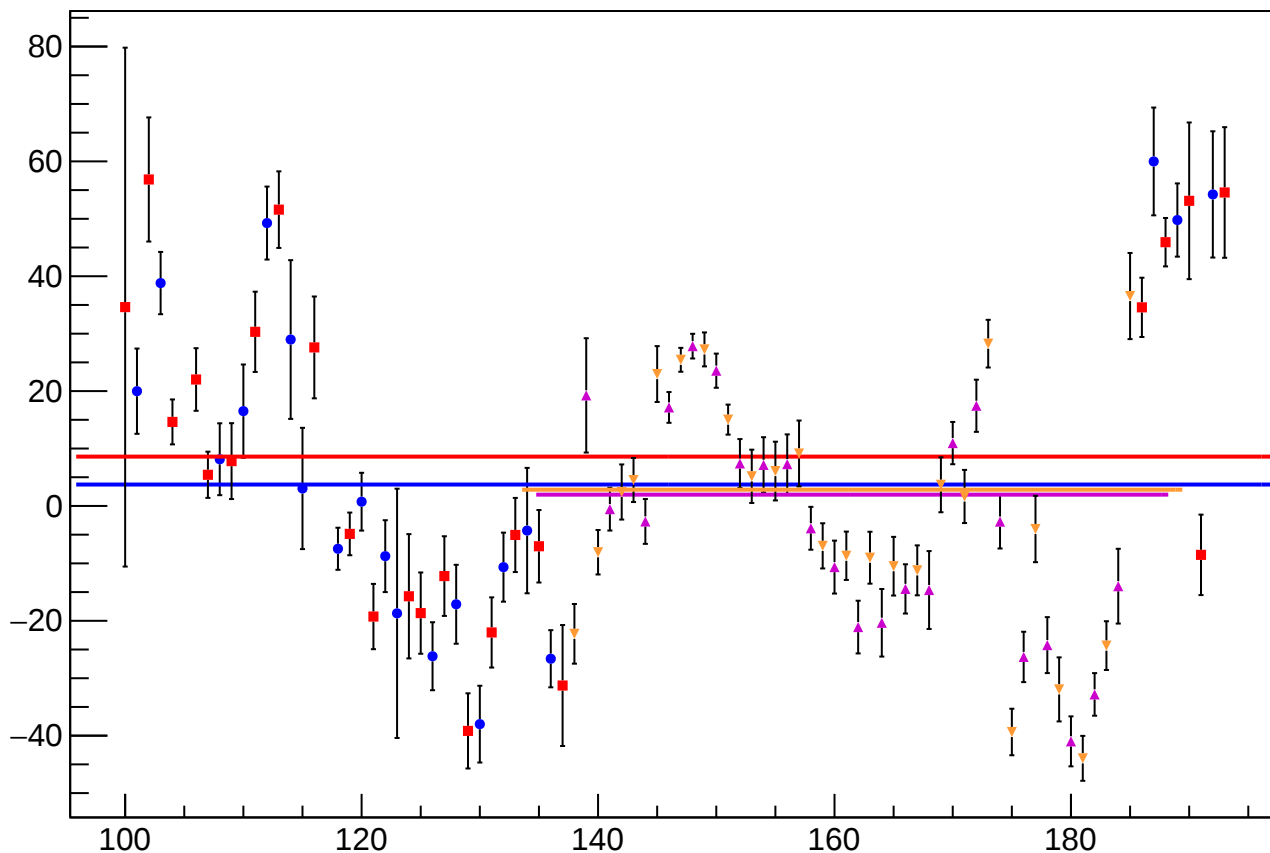
reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -352.635+/-3.807 χ^2/NDF : 525.8/2
 Left Out: -221.934+/-1.084 χ^2/NDF : 2578.4/24
 Right Out: -339.067+/-2.214 χ^2/NDF : 4345.5/4
 Left In: -221.483+/-1.102 χ^2/NDF : 2149.8/22

Left: -221.712+/-0.773 χ^2/NDF : 4728.2/47
 Right: -342.495+/-1.914 χ^2/NDF : 4880.8/7
 In: -231.624+/-1.059 χ^2/NDF : 3770.4/25
 Out: -244.599+/-0.974 χ^2/NDF : 9181.3/29
 All: -238.652+/-0.717 χ^2/NDF : 13033.0/55

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: 2.415 +/- 0.580 χ^2/NDF : 1276.5/47

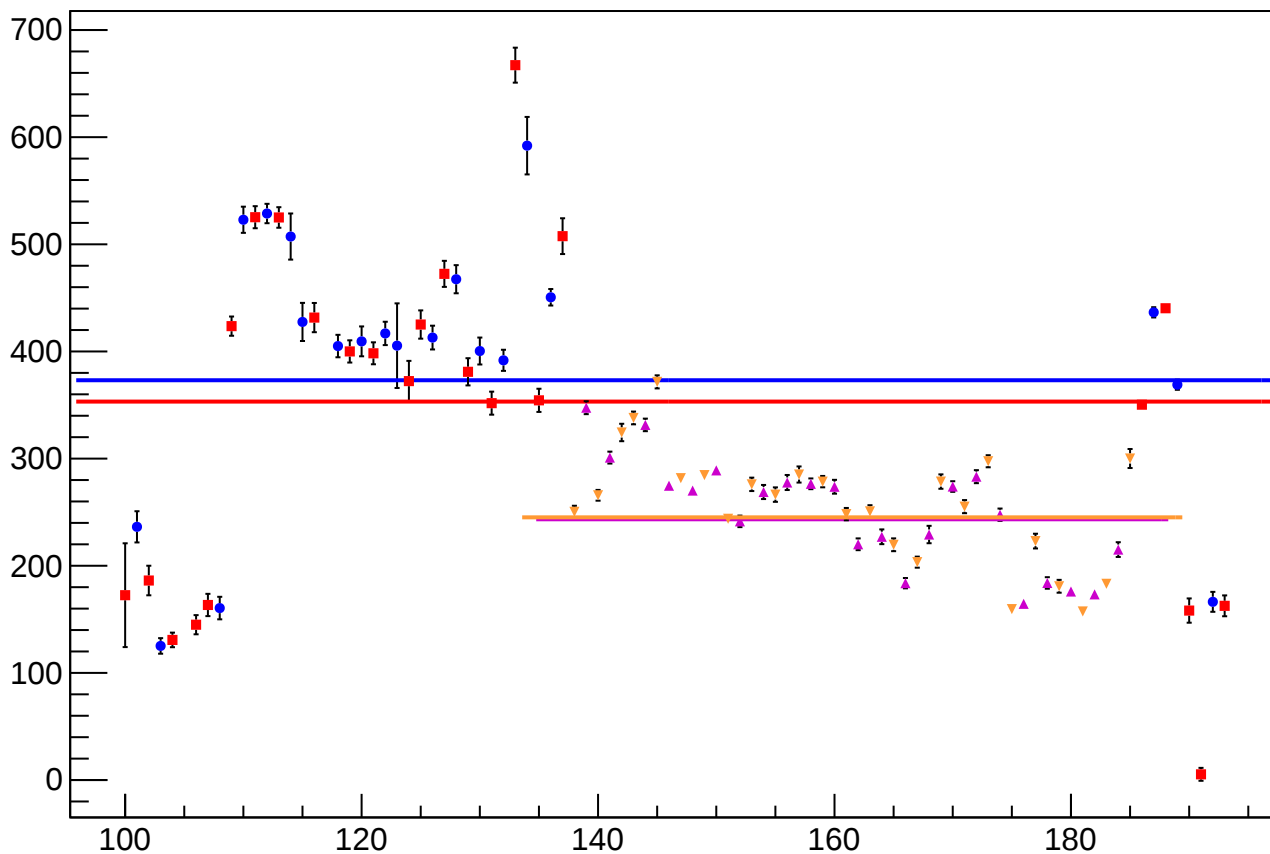
Right: 6.537 +/- 0.952 χ^2/NDF : 743.0/43

In: 2.401 +/- 0.725 χ^2/NDF : 935.5/42

Out: 4.521 +/- 0.679 χ^2/NDF : 1093.1/48

All: 3.531 +/- 0.495 χ^2/NDF : 2033.2/91

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 373.134 $\pm$ 2.092 χ^2 /NDF: 3100.2/19

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 353.221 $\pm$ 1.483 χ^2 /NDF: 8701.8/23

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

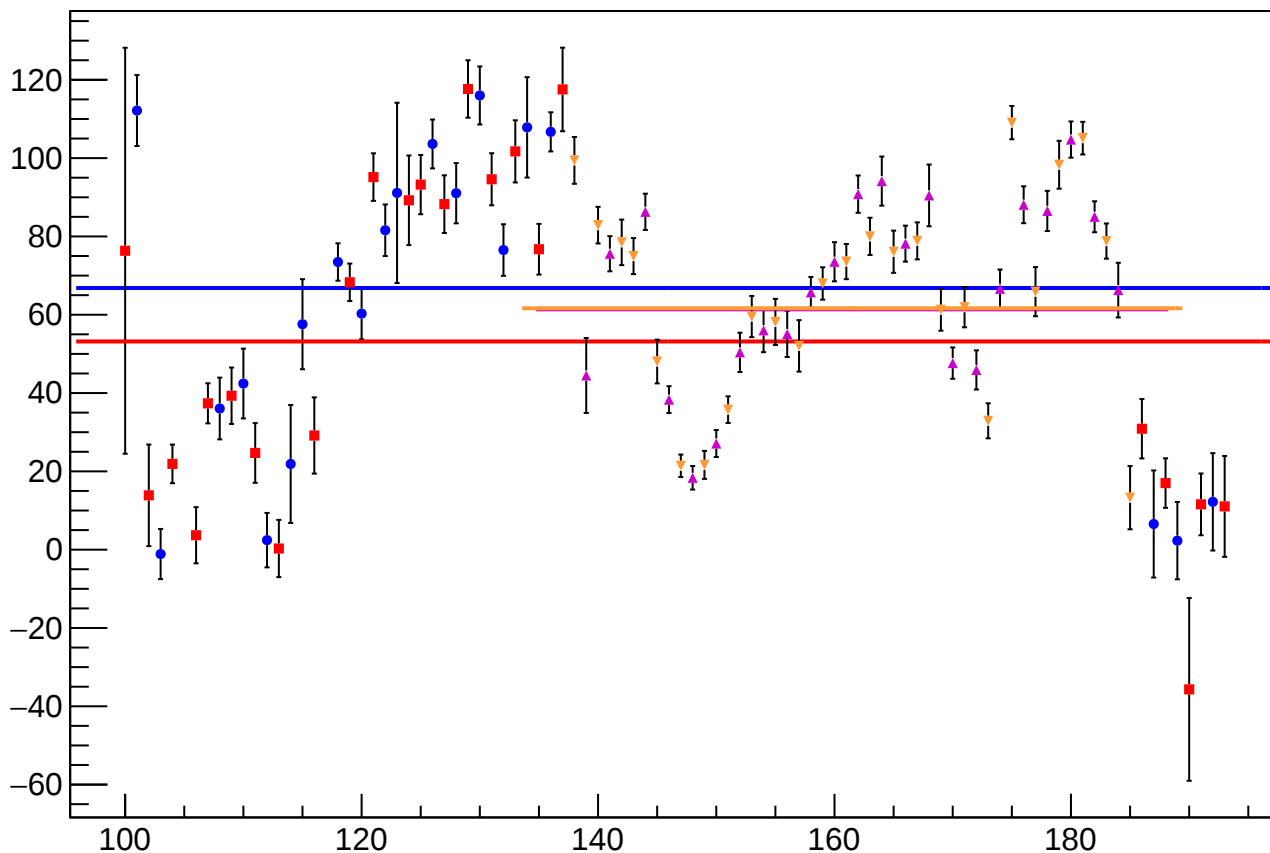
Right: 359.882 $\pm$ 1.210 χ^2 /NDF: 11862.3/43

In: 271.218 $\pm$ 0.969 χ^2 /NDF:8358.9/42

Out: 282.709 $\pm$ 0.874 χ^2 /NDF:14762.5/48

All: 277.555 $\pm$ 0.649 χ^2 /NDF: 23198.9/91

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 66.830+/-1.710 χ^2/NDF : 511.1/19

Left Out: 61.647+/-0.936 χ^2/NDF : 871.5/24

Right Out: 53.175+/-1.506 χ^2/NDF : 598.8/23

Left In: 61.375+/-0.961 χ^2/NDF : 699.7/22

Left: 61.515+/-0.671 χ^2/NDF : 1571.3/47

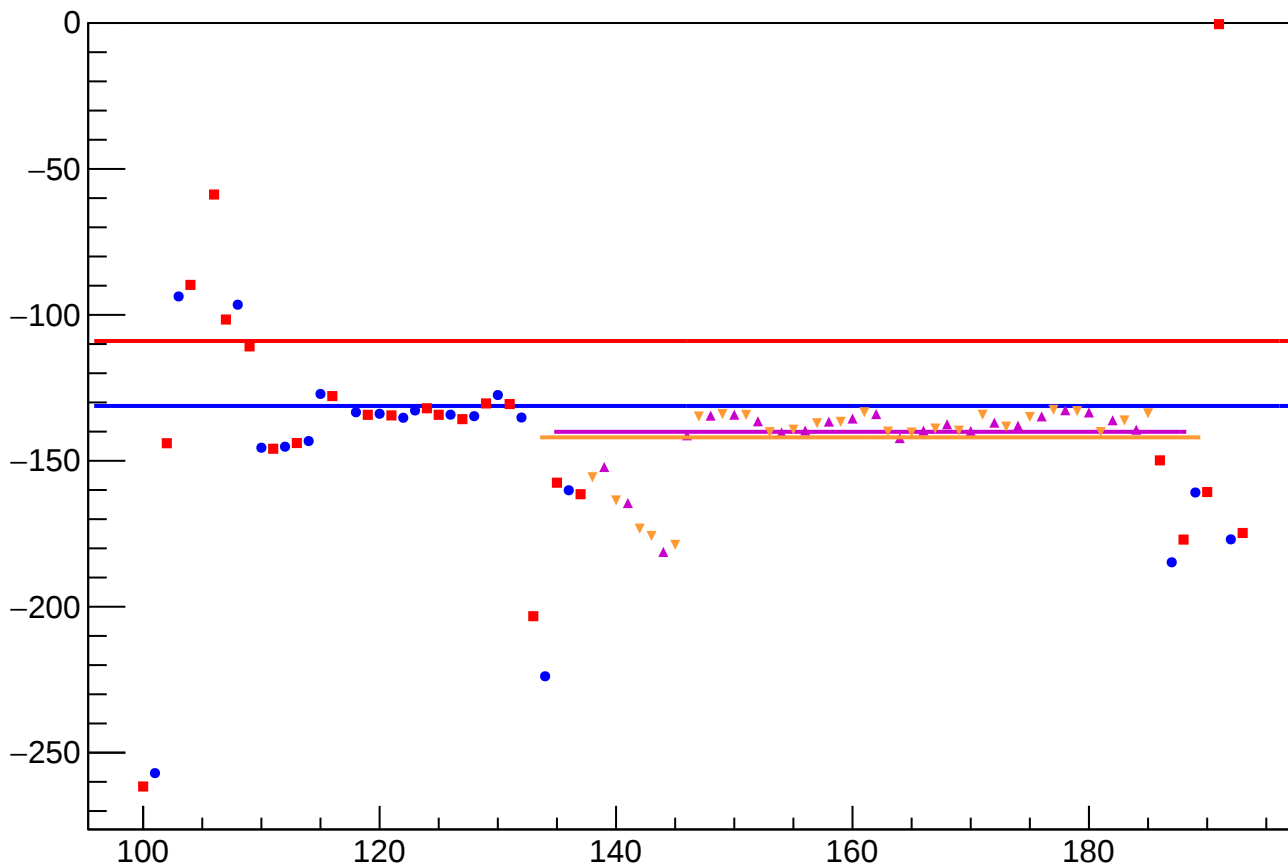
Right: 59.138+/-1.130 χ^2/NDF : 1145.8/43

In: 62.685+/-0.838 χ^2/NDF : 1218.5/42

Out: 59.285+/-0.795 χ^2/NDF : 1493.2/48

All: 60.896+/-0.577 χ^2/NDF : 2720.4/91

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.207+/-0.086 χ^2/NDF : 191376.4/19

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -108.955+/-0.073 χ^2/NDF : 506779.7/23

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

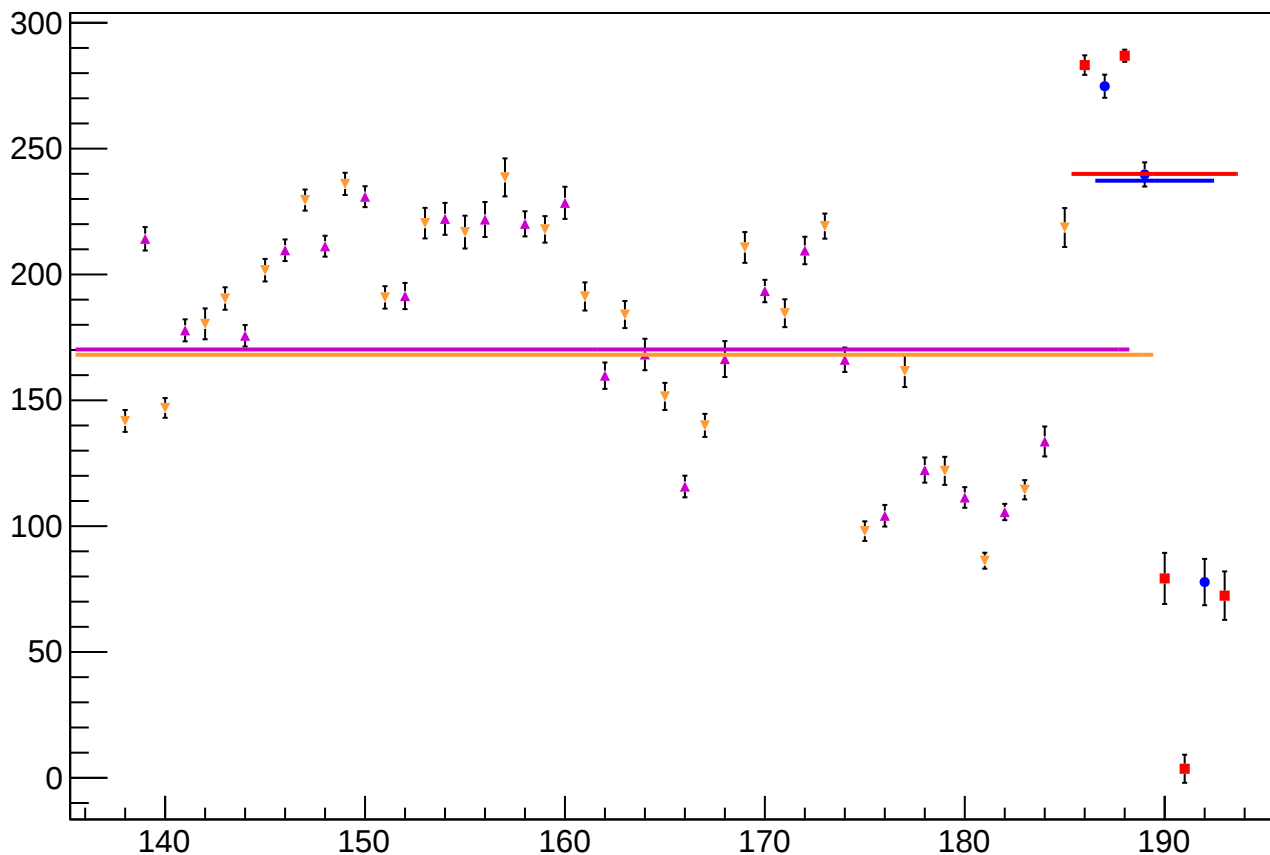
Right: -118.342+/-0.056 χ^2/NDF : 737212.4/43

In: -138.150+/-0.040 χ^2/NDF : 247800.1/42

Out: -132.990+/-0.038 χ^2/NDF : 735387.1/48

All: -135.458+/-0.028 χ^2/NDF : 991941.5/91

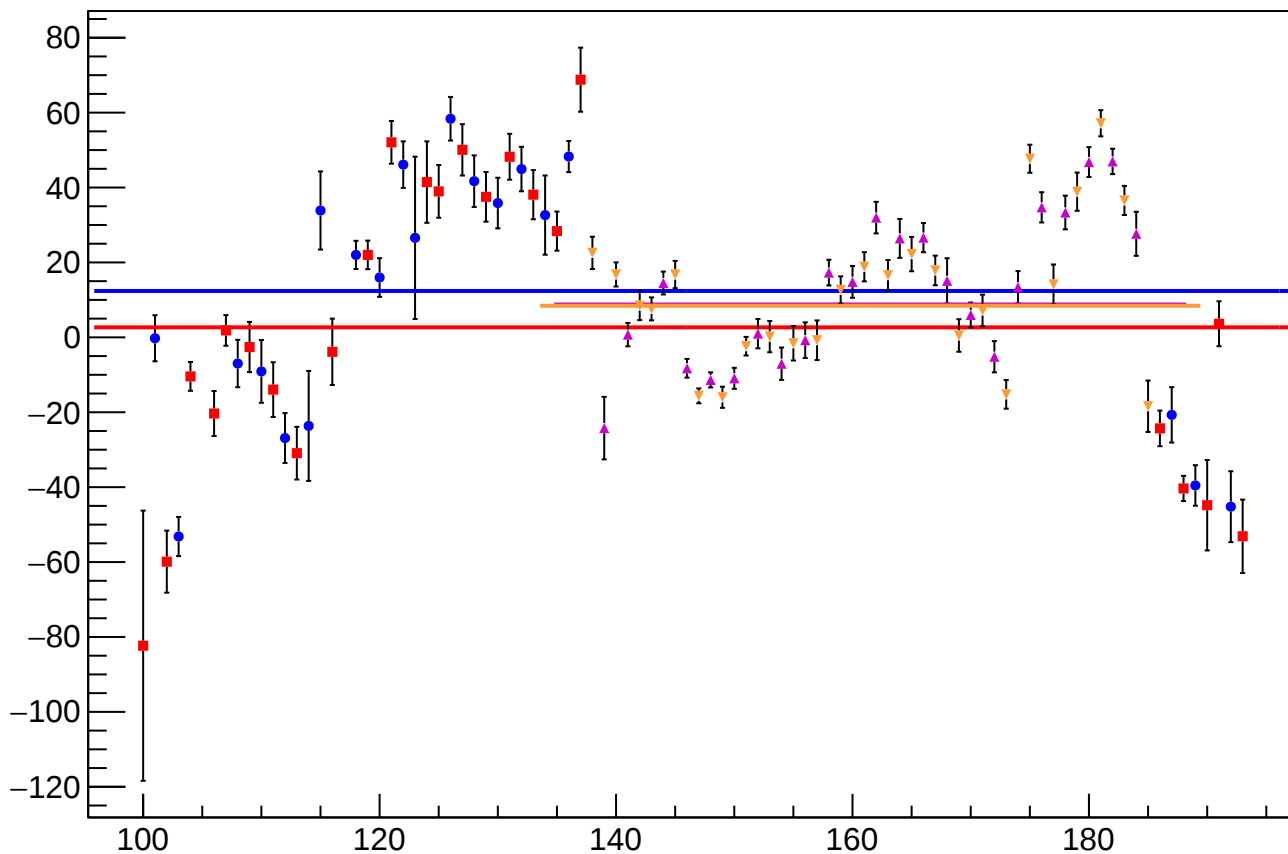
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 237.260 ± 3.125 $\chi^2/\text{NDF}: 366.8/2$
 Left Out: 168.106 ± 0.970 $\chi^2/\text{NDF}: 2468.8/24$
 Right Out: 239.964 ± 1.854 $\chi^2/\text{NDF}: 2847.5/4$
 Left In: 170.198 ± 0.995 $\chi^2/\text{NDF}: 2024.5/22$

Left: 169.125 ± 0.695 $\chi^2/\text{NDF}: 4495.5/47$
 Right: 239.260 ± 1.595 $\chi^2/\text{NDF}: 3214.8/7$
 In: 176.376 ± 0.948 $\chi^2/\text{NDF}: 2809.4/25$
 Out: 183.552 ± 0.860 $\chi^2/\text{NDF}: 6495.4/29$
 All: 180.316 ± 0.637 $\chi^2/\text{NDF}: 9336.2/55$

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.384 $\pm$ 1.406 χ^2 /NDF: 609.2/19

Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24

Right Out: 2.666 $\pm$ 1.200 χ^2 /NDF: 745.0/23

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

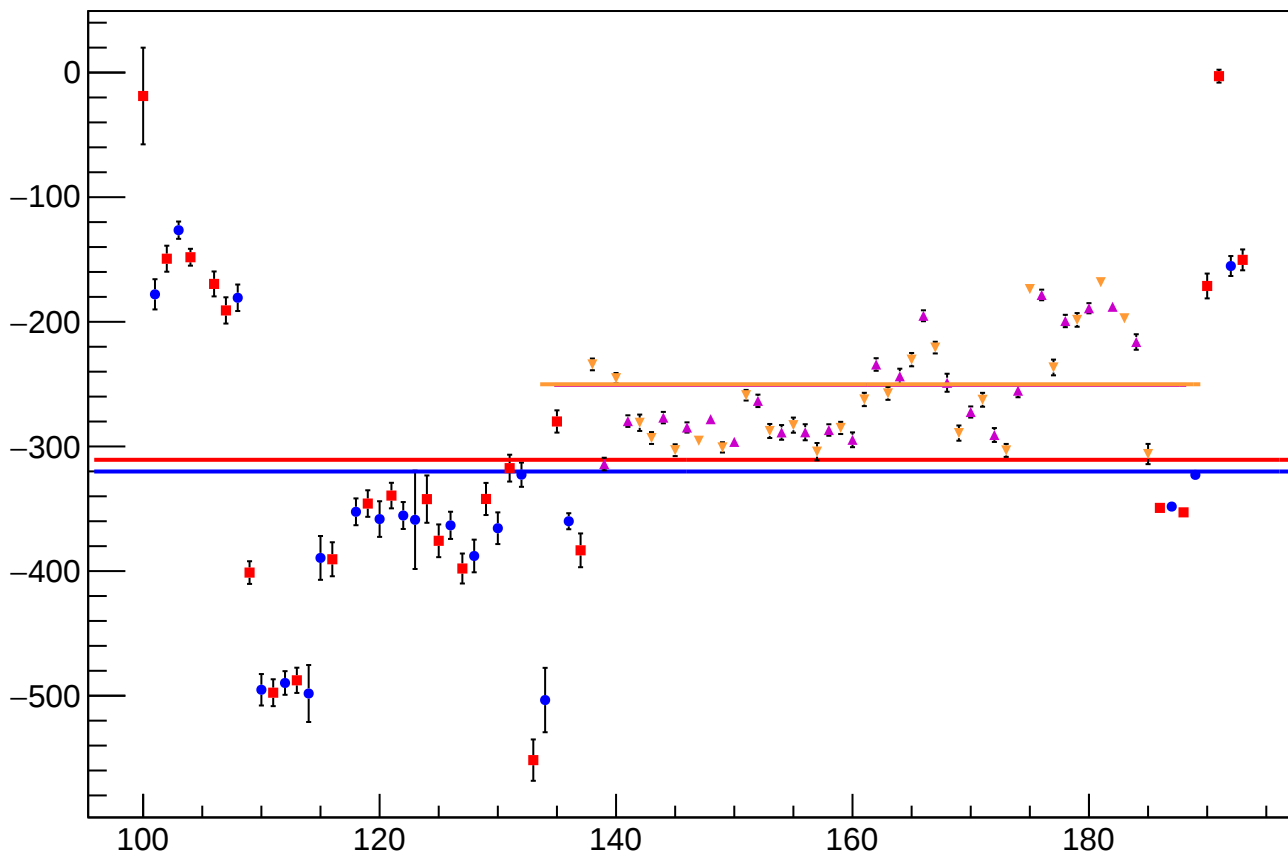
Right: 6.765 $\pm$ 0.913 χ^2 /NDF: 1381.8/43

In: 9.584 $\pm$ 0.667 χ^2 /NDF: 1241.2/42

Out: 6.884 $\pm$ 0.623 χ^2 /NDF: 1513.9/48

All: 8.140 $\pm$ 0.455 χ^2 /NDF: 2763.8/91

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -320.095 ± 1.865 $\chi^2/\text{NDF}: 2328.0/19$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -310.706 ± 1.302 $\chi^2/\text{NDF}: 7033.3/23$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

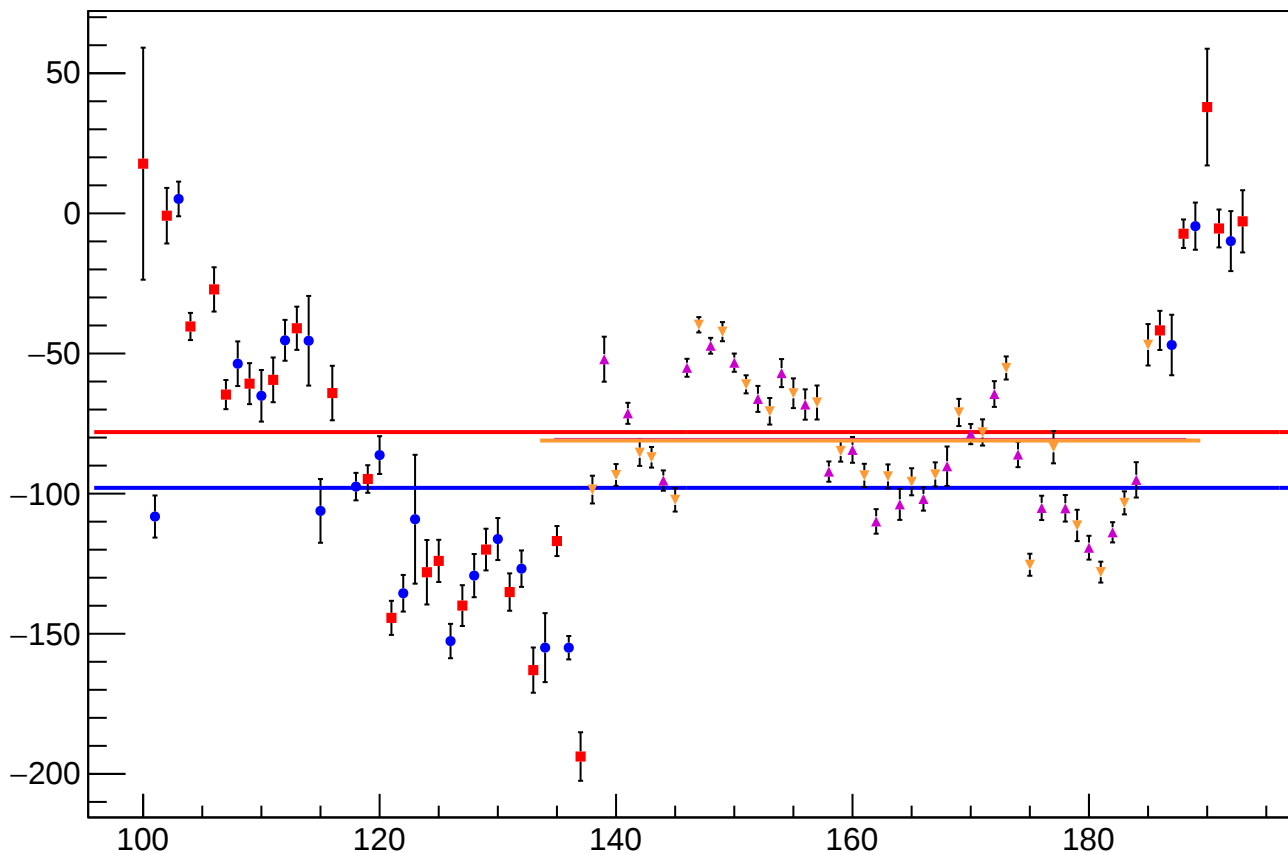
Right: -313.782 ± 1.068 $\chi^2/\text{NDF}: 9378.4/43$

In: -265.903 ± 0.875 $\chi^2/\text{NDF}: 5347.0/42$

Out: -271.805 ± 0.779 $\chi^2/\text{NDF}: 10670.0/48$

All: -269.194 ± 0.582 $\chi^2/\text{NDF}: 16042.4/91$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.943 ± 1.641 χ^2/NDF : 966.7/19

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -78.037 ± 1.449 χ^2/NDF : 1330.0/23

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

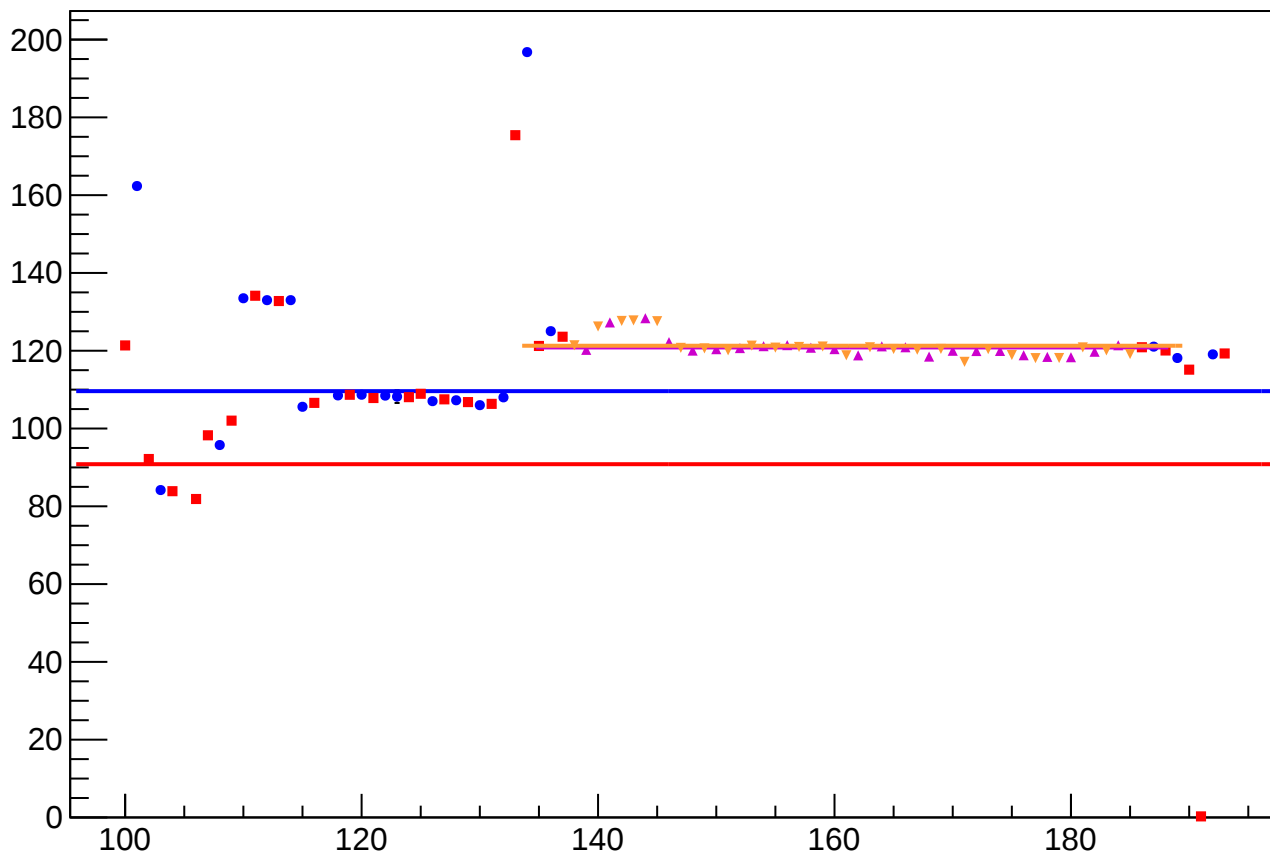
Right: -86.758 ± 1.086 χ^2/NDF : 2379.3/43

In: -84.599 ± 0.770 χ^2/NDF : 1744.5/42

Out: -80.294 ± 0.729 χ^2/NDF : 2246.3/48

All: -82.328 ± 0.529 χ^2/NDF : 4007.3/91

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 109.611 $\pm$ 0.080 χ^2 /NDF: 74981.6/19

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 90.827 $\pm$ 0.068 χ^2 /NDF: 336513.6/23

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

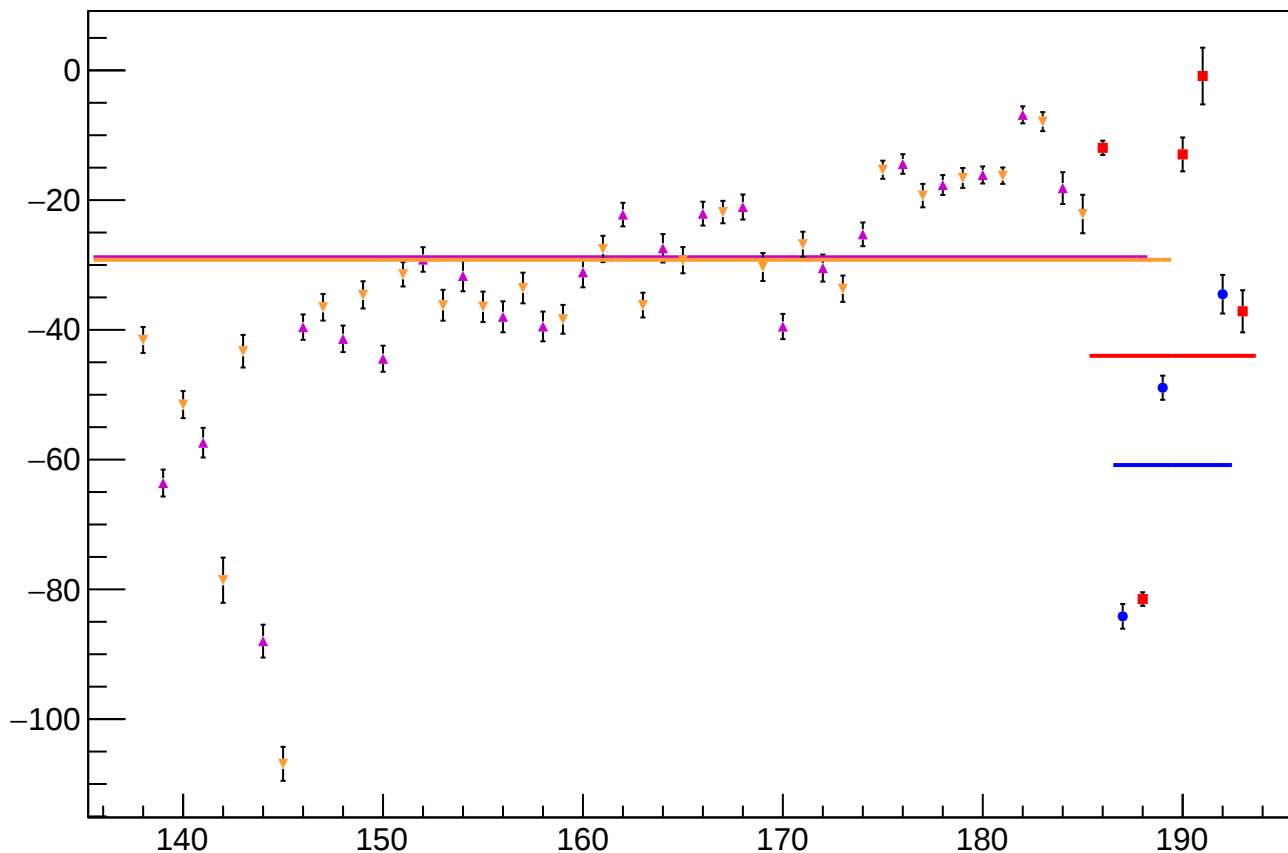
Right: 98.705 $\pm$ 0.052 χ^2 /NDF: 443267.1/43

In: 118.547 $\pm$ 0.036 χ^2 /NDF: 93919.4/42

Out: 113.466 $\pm$ 0.035 χ^2 /NDF: 489488.4/48

All: 115.883 $\pm$ 0.025 χ^2 /NDF: 593682.6/91

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected

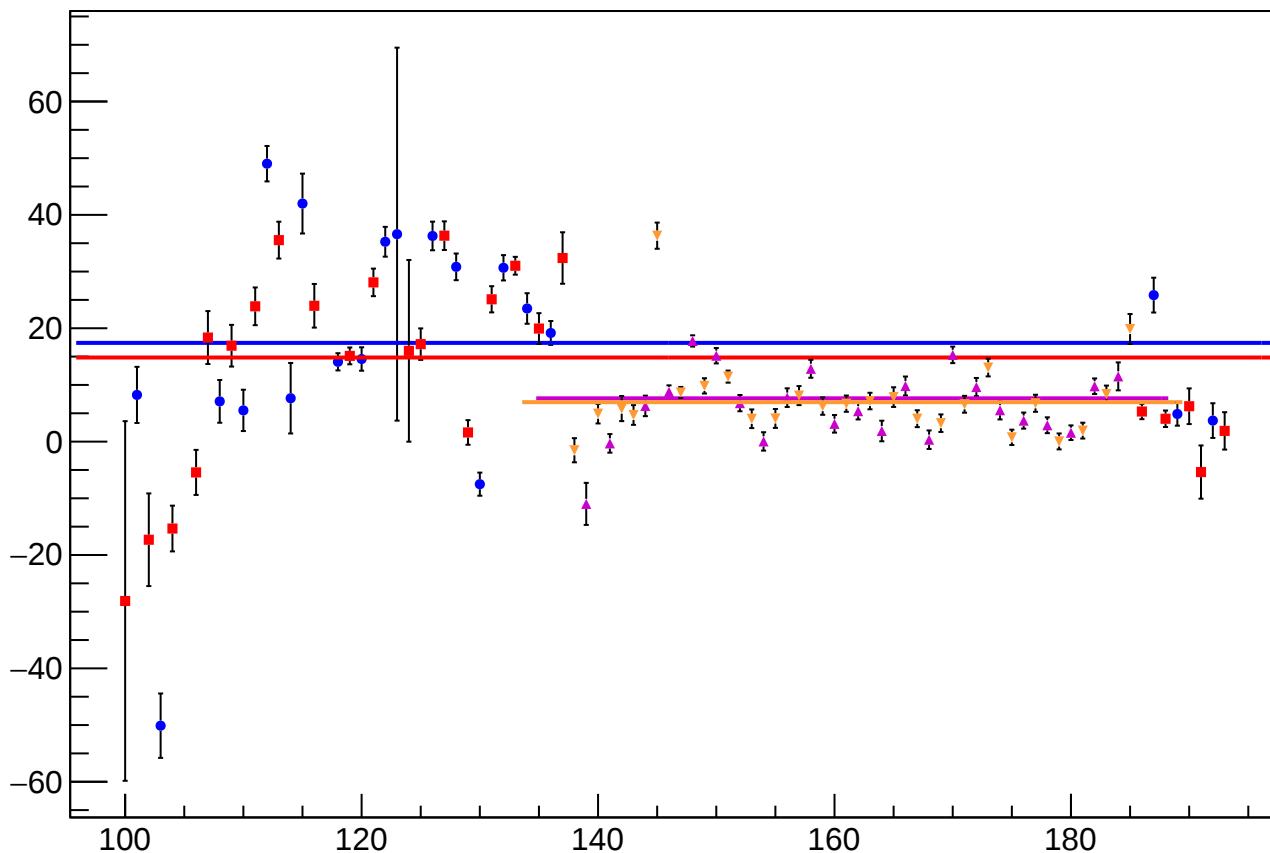


Right In: -60.837 ± 1.215 $\chi^2/\text{NDF}: 269.1/2$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -44.003 ± 0.702 $\chi^2/\text{NDF}: 2372.3/4$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$
 Right: -48.213 ± 0.608 $\chi^2/\text{NDF}: 2785.3/7$
 In: -31.876 ± 0.376 $\chi^2/\text{NDF}: 2661.2/25$
 Out: -32.673 ± 0.340 $\chi^2/\text{NDF}: 4594.4/29$

All: -32.315 ± 0.252 $\chi^2/\text{NDF}: 7258.2/55$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.418 ± 0.599 χ^2/NDF : 686.1/19

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 14.838 ± 0.521 χ^2/NDF : 584.8/23

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

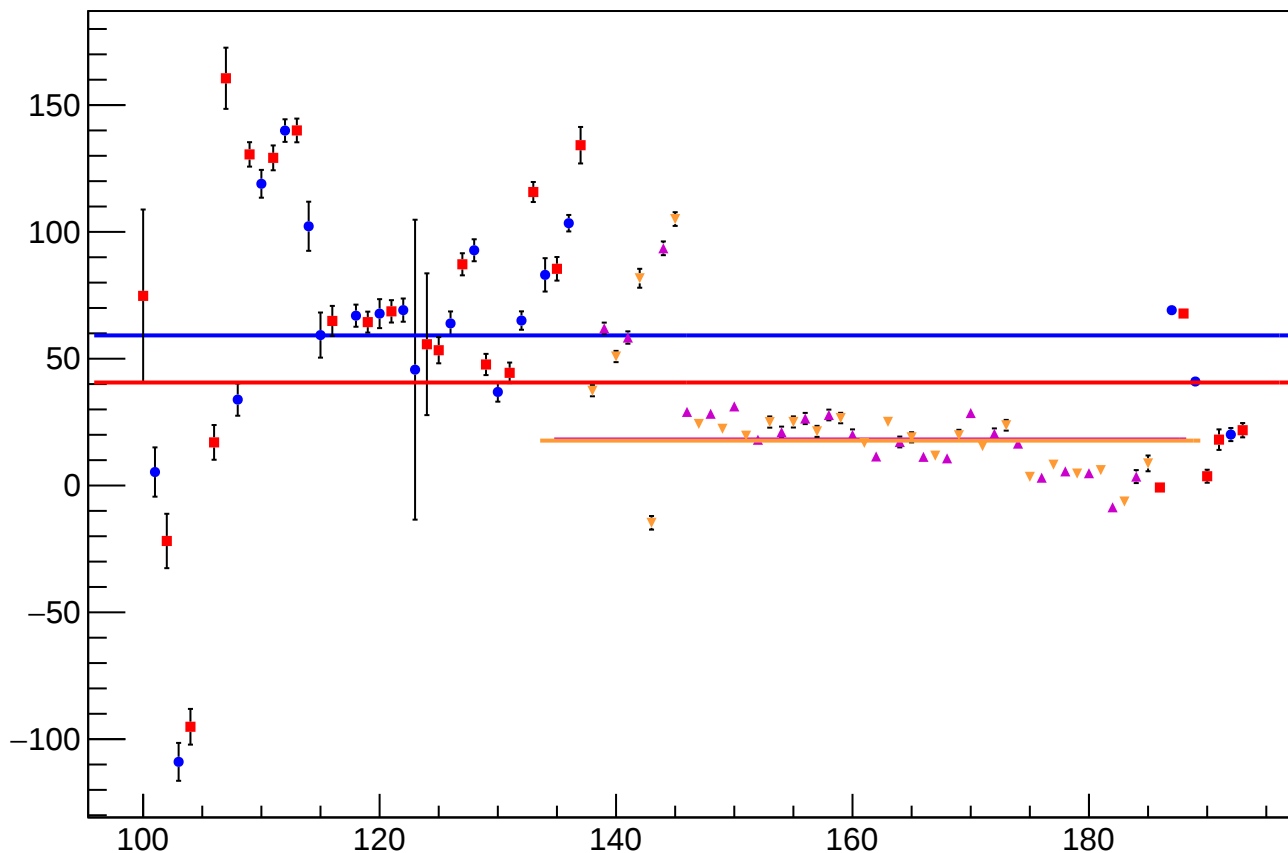
Right: 15.950 ± 0.393 χ^2/NDF : 1281.4/43

In: 9.740 ± 0.278 χ^2/NDF : 1233.0/42

Out: 8.948 ± 0.262 χ^2/NDF : 1076.8/48

All: 9.321 ± 0.191 χ^2/NDF : 2314.0/91

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 59.185 $\pm$ 0.787 χ^2 /NDF: 1729.6/19

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 40.616 $\pm$ 0.520 χ^2 /NDF: 6026.4/23

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

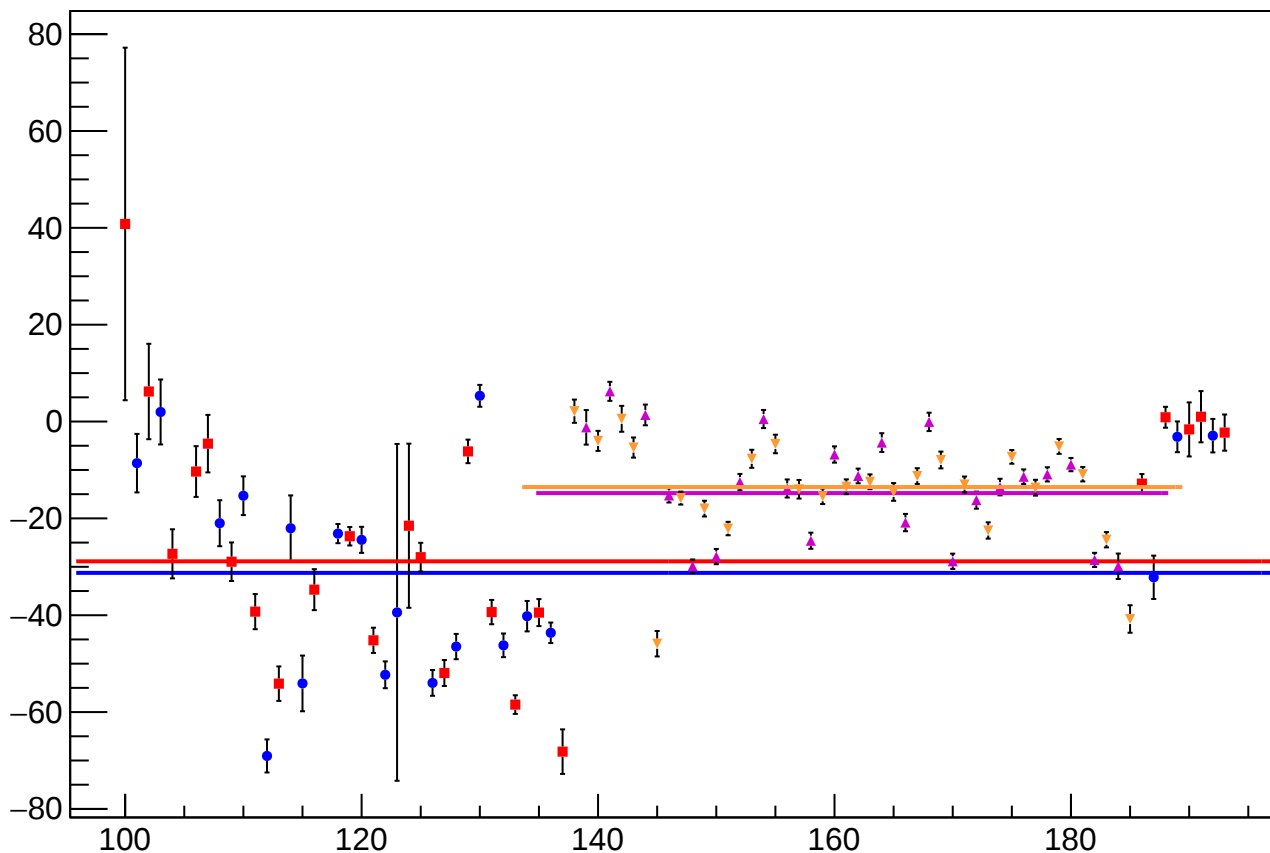
Right: 46.251 $\pm$ 0.434 χ^2 /NDF: 8143.4/43

In: 26.320 $\pm$ 0.351 χ^2 /NDF:6244.4/42

Out: 25.884 $\pm$ 0.311 χ^2 /NDF:9708.3/48

All: 26.075 $\pm$ 0.233 χ^2 /NDF: 15953.5/91

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -31.254 ± 0.702 $\chi^2/\text{NDF}: 874.7/19$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -28.870 ± 0.639 $\chi^2/\text{NDF}: 1017.5/23$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

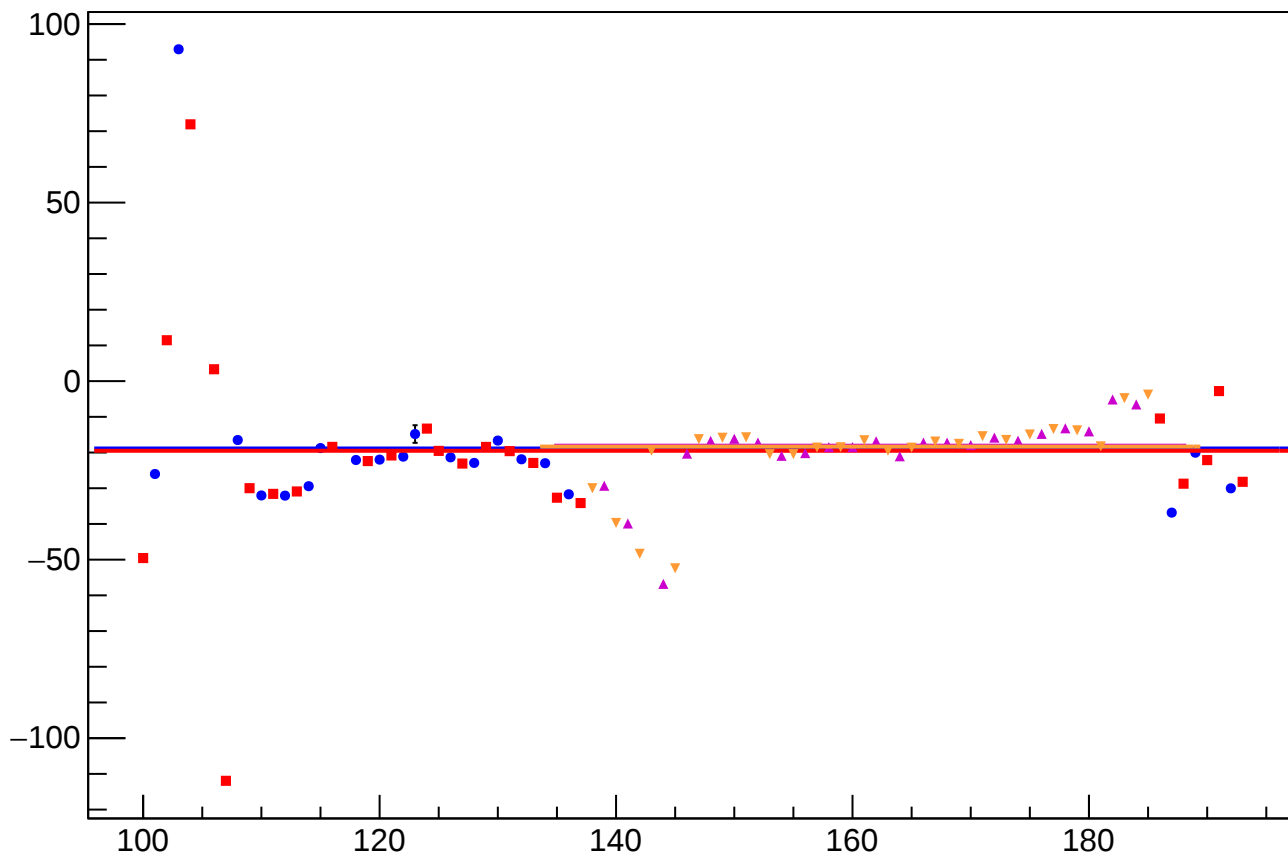
Right: -29.950 ± 0.473 $\chi^2/\text{NDF}: 1898.5/43$

In: -18.119 ± 0.316 $\chi^2/\text{NDF}: 2151.7/42$

Out: -16.979 ± 0.303 $\chi^2/\text{NDF}: 2037.1/48$

All: -17.524 ± 0.219 $\chi^2/\text{NDF}: 4195.6/91$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -18.868 ± 0.039 $\chi^2/\text{NDF}: 492849.5/19$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -19.504 ± 0.036 $\chi^2/\text{NDF}: 464790.8/23$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

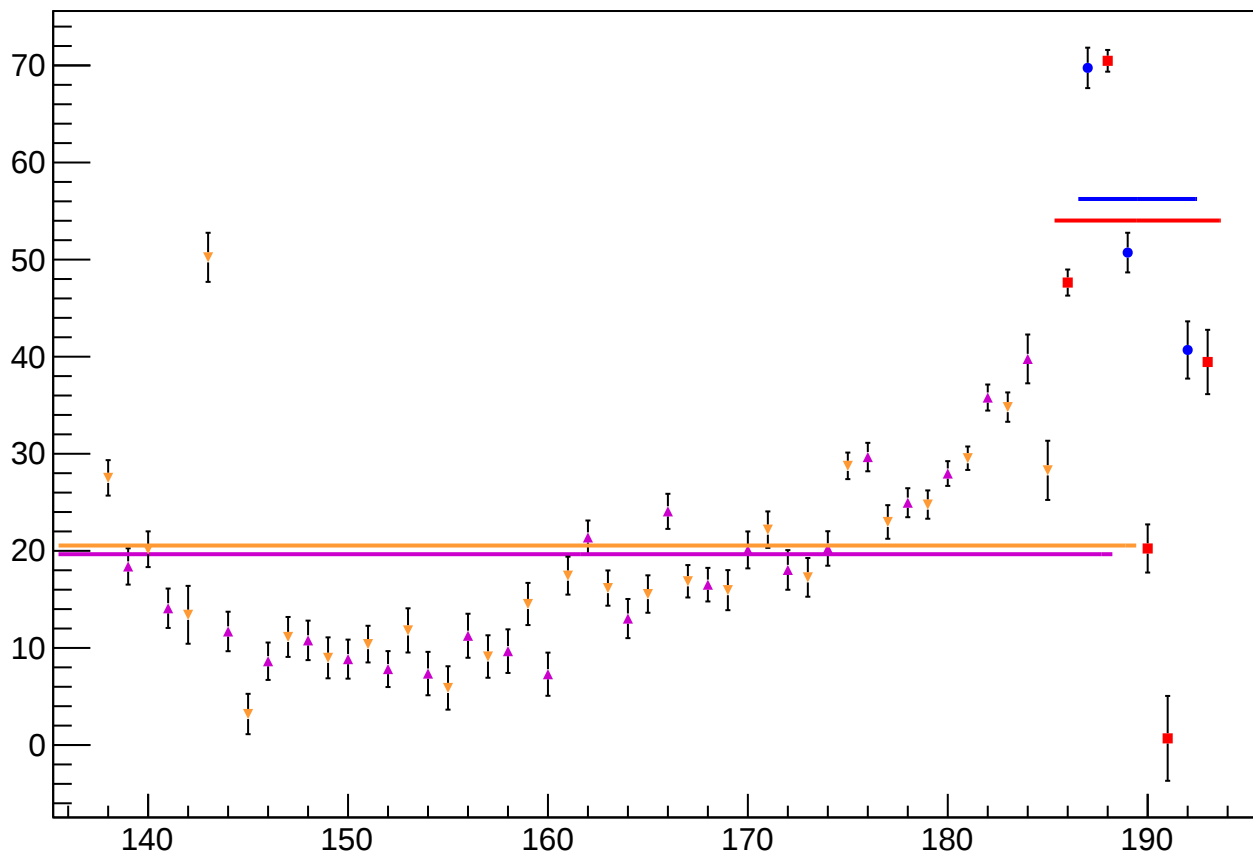
Right: -19.215 ± 0.026 $\chi^2/\text{NDF}: 957783.4/43$

In: -18.196 ± 0.015 $\chi^2/\text{NDF}: 735141.4/42$

Out: -18.525 ± 0.014 $\chi^2/\text{NDF}: 749834.0/48$

All: -18.365 ± 0.010 $\chi^2/\text{NDF}: 1485226.2/91$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 56.243+/-1.307 χ^2/NDF : 77.2/2

Left Out: 20.550+/-0.373 χ^2/NDF : 626.4/24

Right Out: 54.025+/-0.776 χ^2/NDF : 592.9/4

Left In: 19.656+/-0.380 χ^2/NDF : 571.8/22

Left: 20.112+/-0.266 χ^2/NDF : 1201.0/47

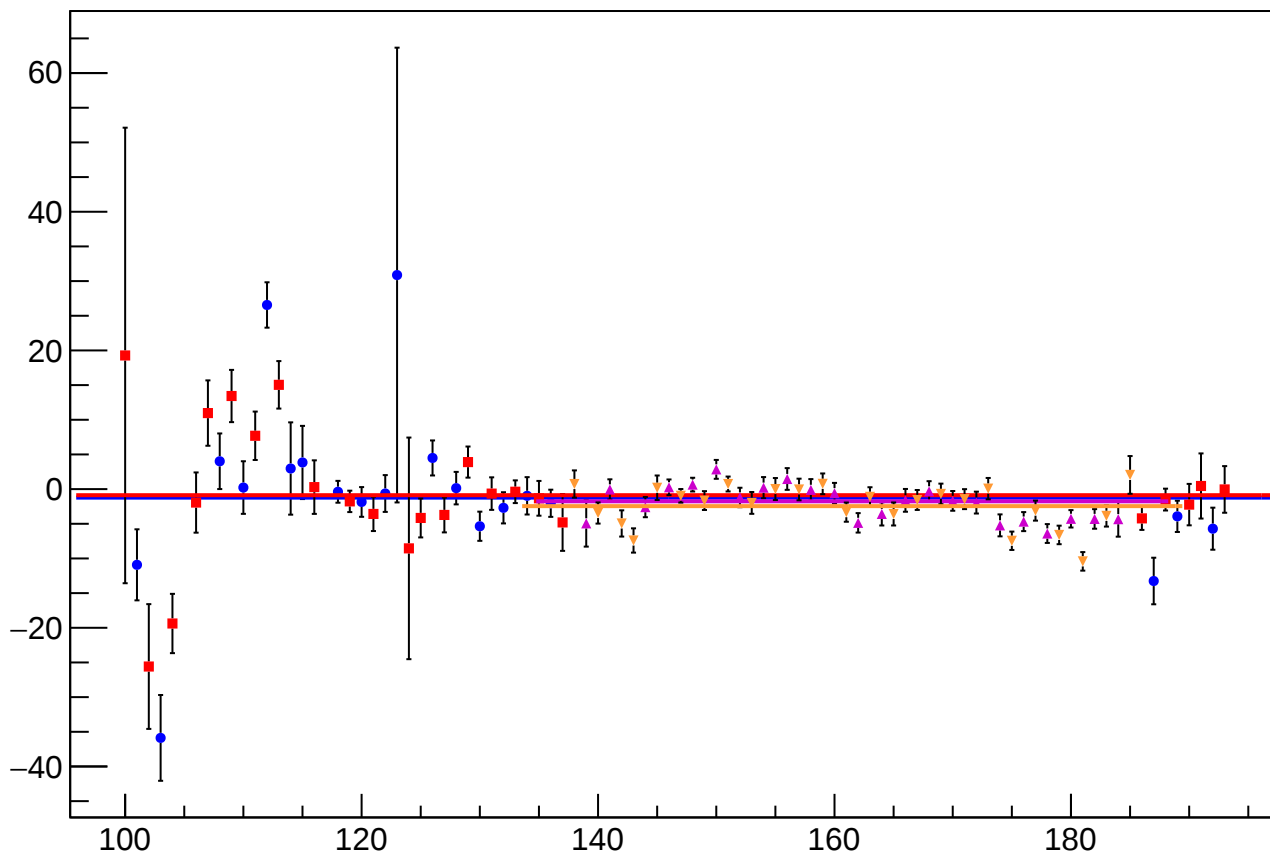
Right: 54.603+/-0.667 χ^2/NDF : 672.2/7

In: 22.514+/-0.365 χ^2/NDF : 1371.6/25

Out: 26.832+/-0.336 χ^2/NDF : 2730.1/29

All: 24.851+/-0.247 χ^2/NDF : 4177.4/55

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.227 ± 0.612 χ^2/NDF : 137.9/19

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -0.878 ± 0.548 χ^2/NDF : 89.7/23

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

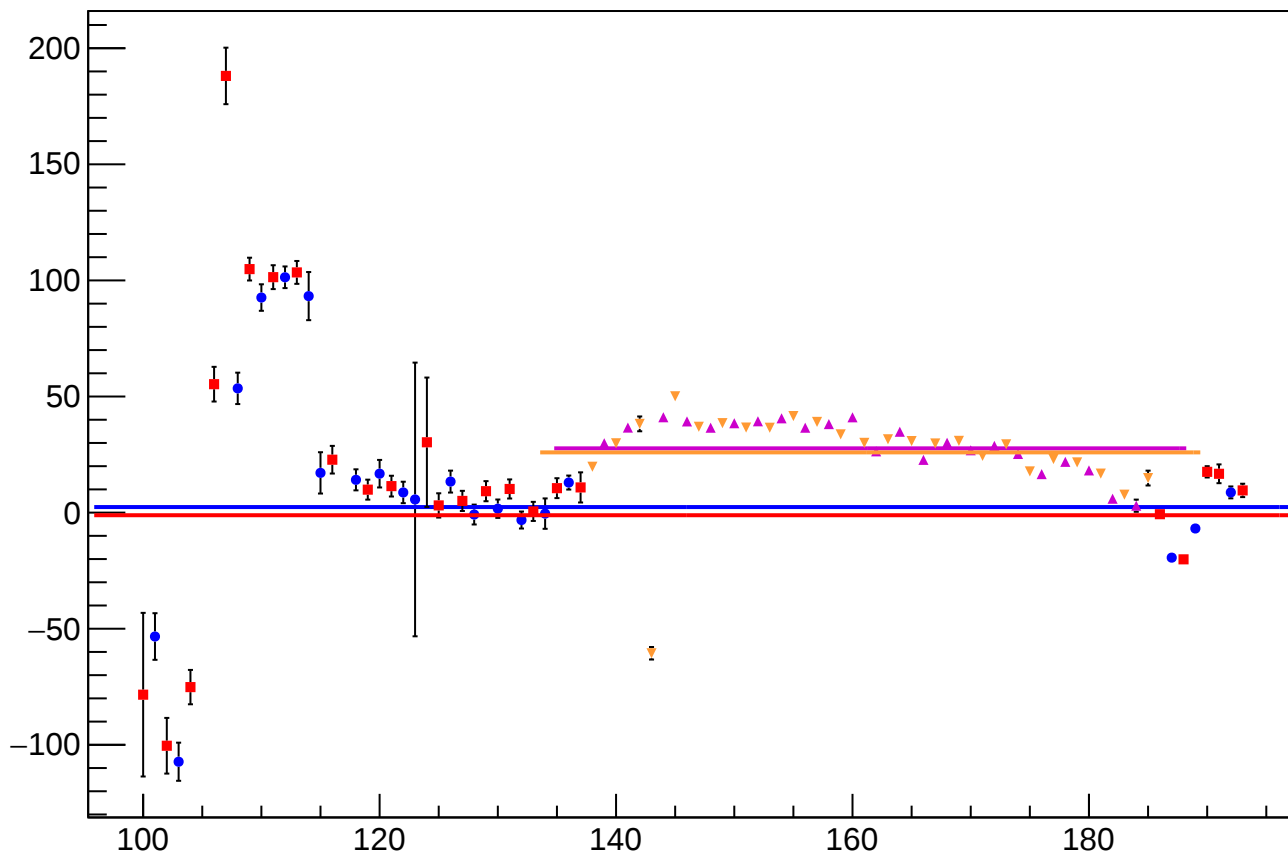
Right: -1.033 ± 0.408 χ^2/NDF : 227.8/43

In: -1.654 ± 0.271 χ^2/NDF : 206.0/42

Out: -2.106 ± 0.258 χ^2/NDF : 202.1/48

All: -1.891 ± 0.187 χ^2/NDF : 409.6/91

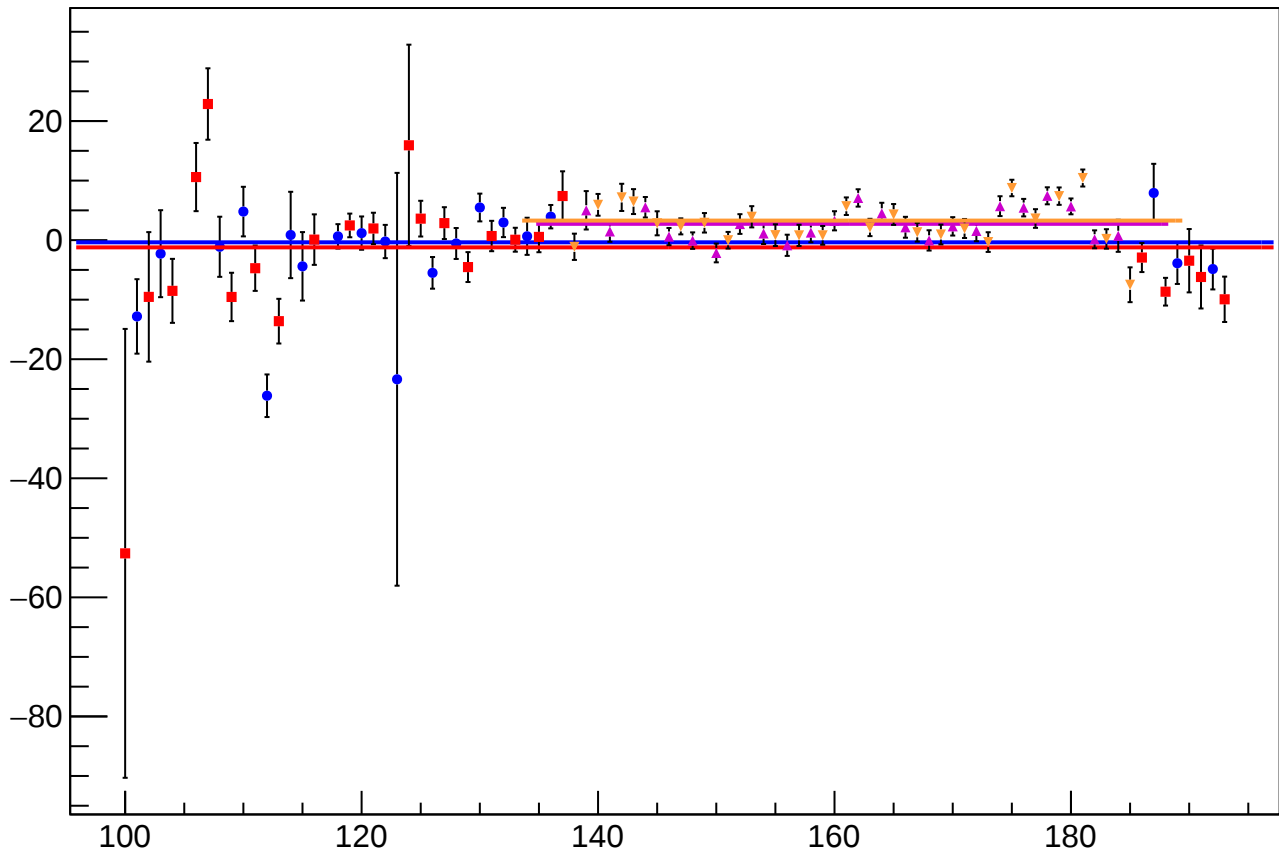
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.395 ± 0.827 χ^2/NDF : 1277.7/19
 Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24
 Right Out: -1.124 ± 0.569 χ^2/NDF : 2382.5/23
 Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47
 Right: 0.007 ± 0.469 χ^2/NDF : 3672.4/43
 In: 23.301 ± 0.344 χ^2/NDF : 2855.0/42
 Out: 17.825 ± 0.312 χ^2/NDF : 5677.8/48
 All: 20.293 ± 0.231 χ^2/NDF : 8672.0/91

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.367 ± 0.712 χ^2/NDF : 81.3/19

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -1.216 ± 0.664 χ^2/NDF : 76.0/23

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

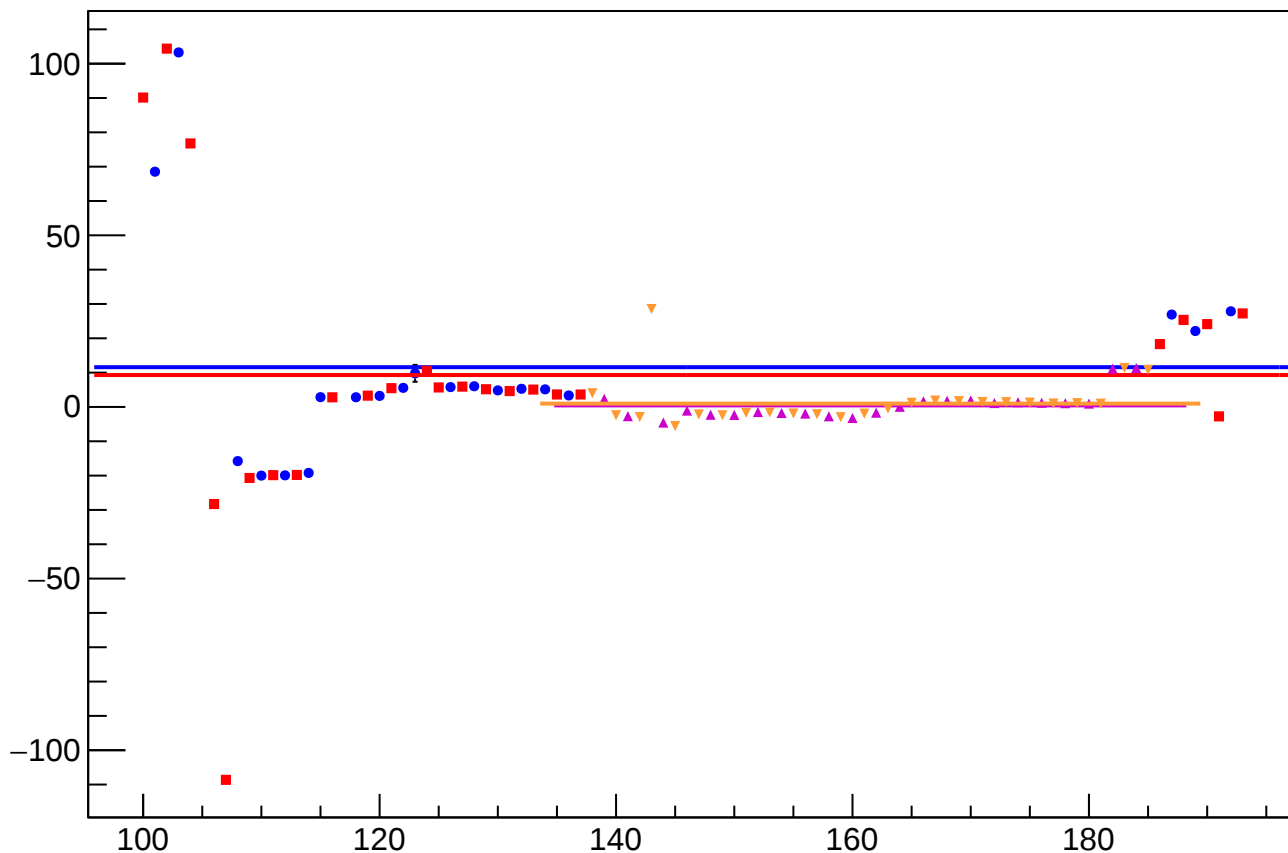
Right: -0.821 ± 0.485 χ^2/NDF : 158.1/43

In: 2.158 ± 0.308 χ^2/NDF : 161.3/42

Out: 2.385 ± 0.296 χ^2/NDF : 215.1/48

All: 2.276 ± 0.213 χ^2/NDF : 376.6/91

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.582 $\pm$ 0.039 χ^2 /NDF: 394555.5/19

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF:117391.3/24

Right Out: 9.295 $\pm$ 0.037 χ^2 /NDF: 587054.5/23

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF:50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

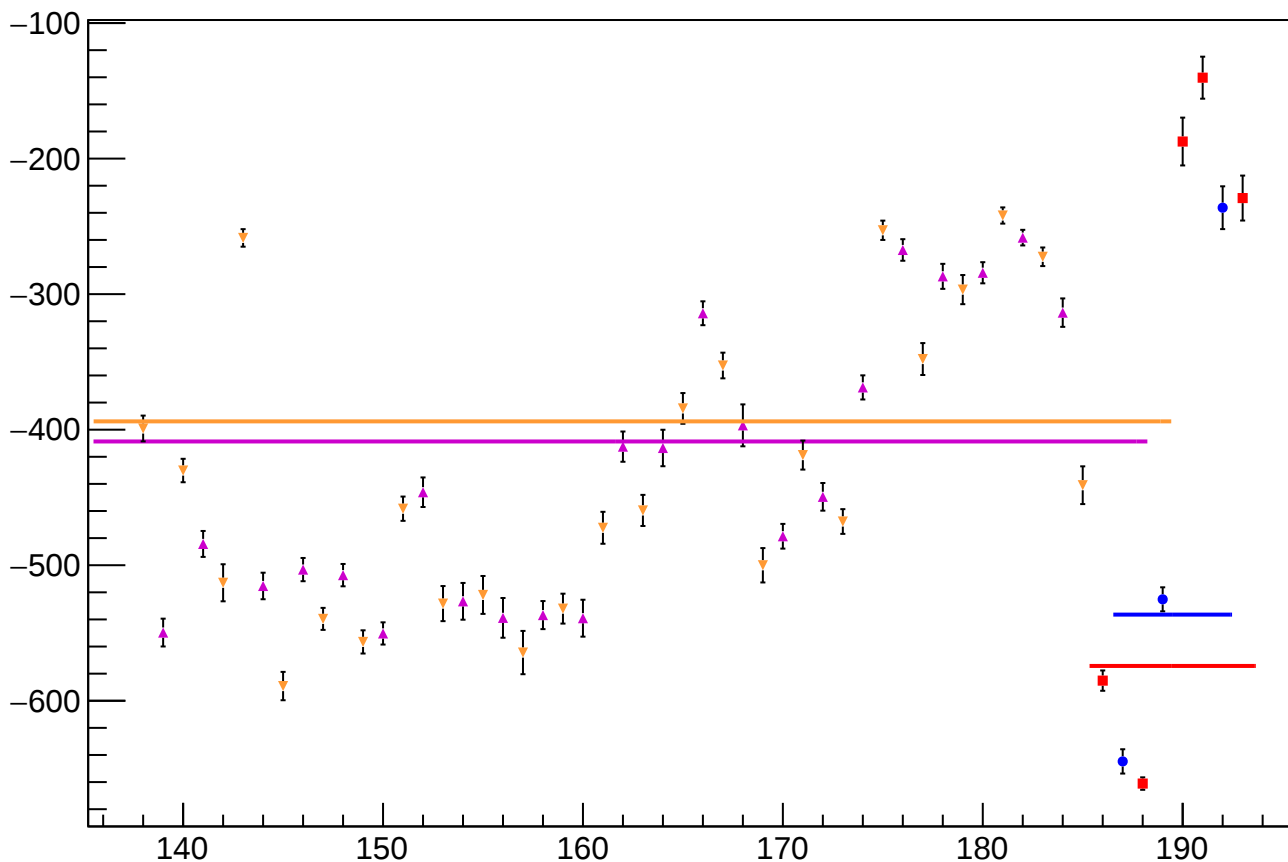
Right: 10.355 $\pm$ 0.027 χ^2 /NDF: 983413.2/43

In: 1.928 $\pm$ 0.014 χ^2 /NDF:514270.8/42

Out: 2.198 $\pm$ 0.014 χ^2 /NDF:748360.3/48

All: 2.066 $\pm$ 0.010 χ^2 /NDF: 1262811.8/91

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -536.437 $\pm$ 5.853 χ^2 /NDF: 509.1/2

Left Out: -393.871 $\pm$ 1.897 χ^2 /NDF:3772.8/24

Right Out: -574.314 $\pm$ 3.623 χ^2 /NDF: 2057.2/4

Left In: -408.696 $\pm$ 1.979 χ^2 /NDF:3062.9/22

Left: -400.970 $\pm$ 1.369 χ^2 /NDF: 6864.9/47

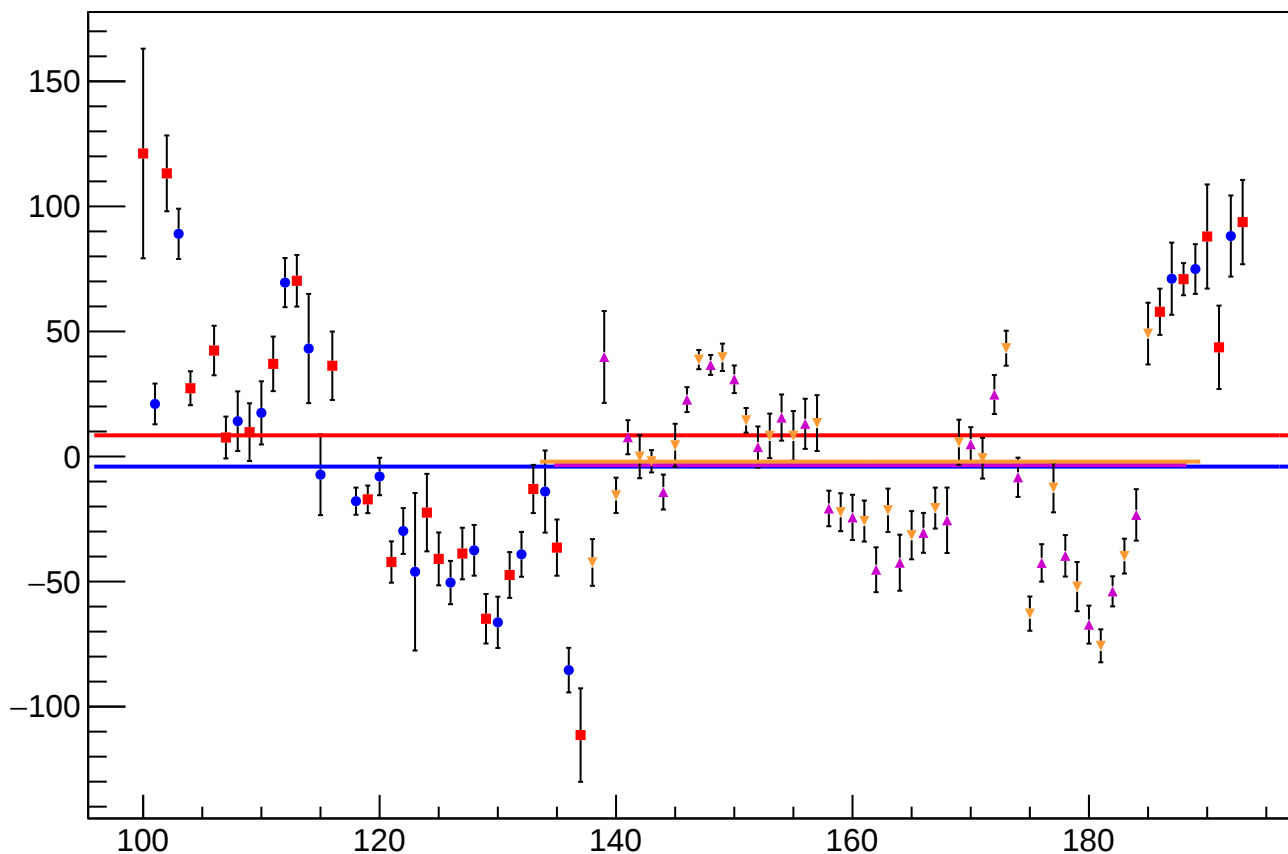
Right: -563.822 $\pm$ 3.081 χ^2 /NDF: 2596.5/7

In: -421.800 $\pm$ 1.875 χ^2 /NDF:3999.4/25

Out: -432.698 $\pm$ 1.681 χ^2 /NDF:7776.8/29

All: -427.842 $\pm$ 1.251 χ^2 /NDF: 11794.9/55

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.036 ± 2.240 $\chi^2/\text{NDF}: 475.9/19$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 8.469 ± 2.037 $\chi^2/\text{NDF}: 549.2/23$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

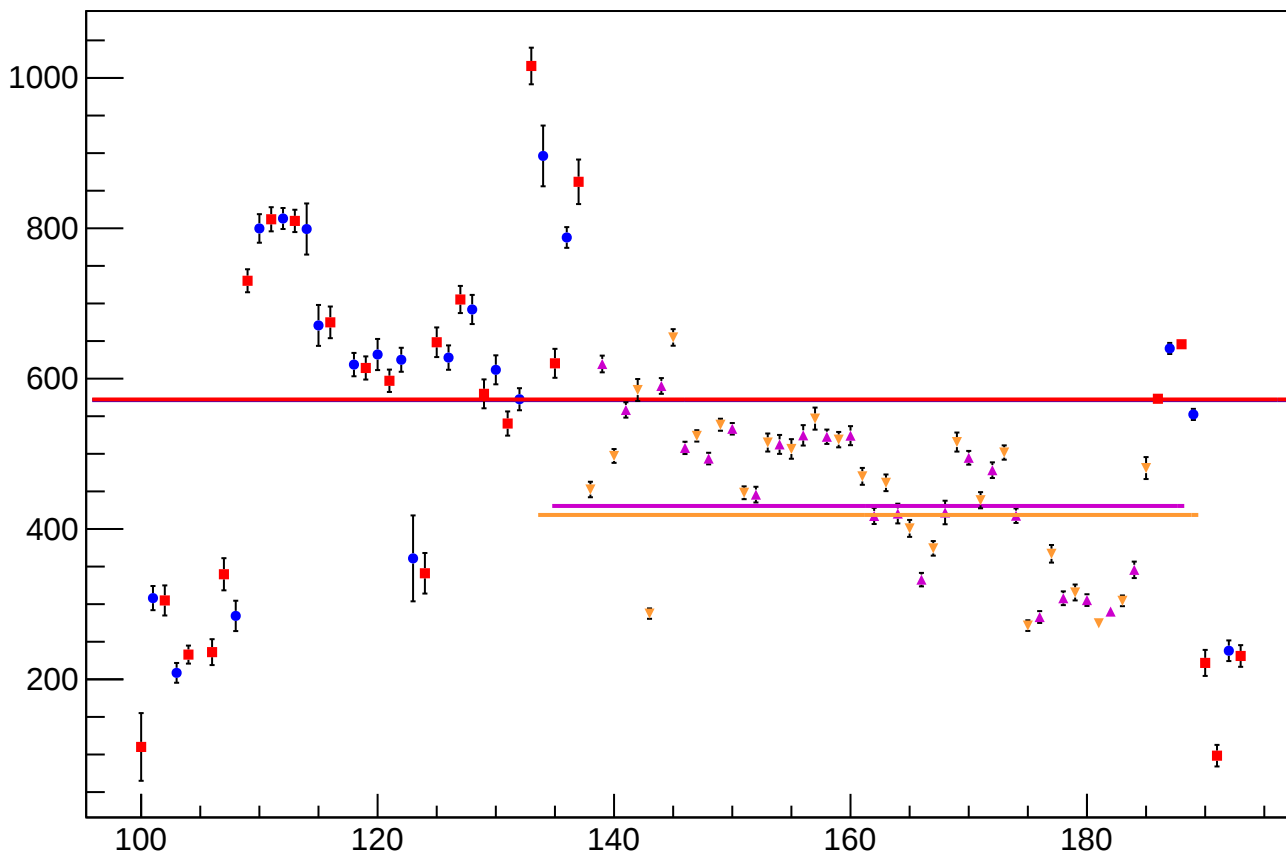
Right: 2.807 ± 1.507 $\chi^2/\text{NDF}: 1042.2/43$

In: -3.614 ± 1.258 $\chi^2/\text{NDF}: 926.9/42$

Out: 1.412 ± 1.167 $\chi^2/\text{NDF}: 1130.9/48$

All: -0.914 ± 0.856 $\chi^2/\text{NDF}: 2066.4/91$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 571.447 $\pm$ 3.251 χ^2 /NDF: 2824.3/19

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 572.272 $\pm$ 2.407 χ^2 /NDF: 5240.1/23

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

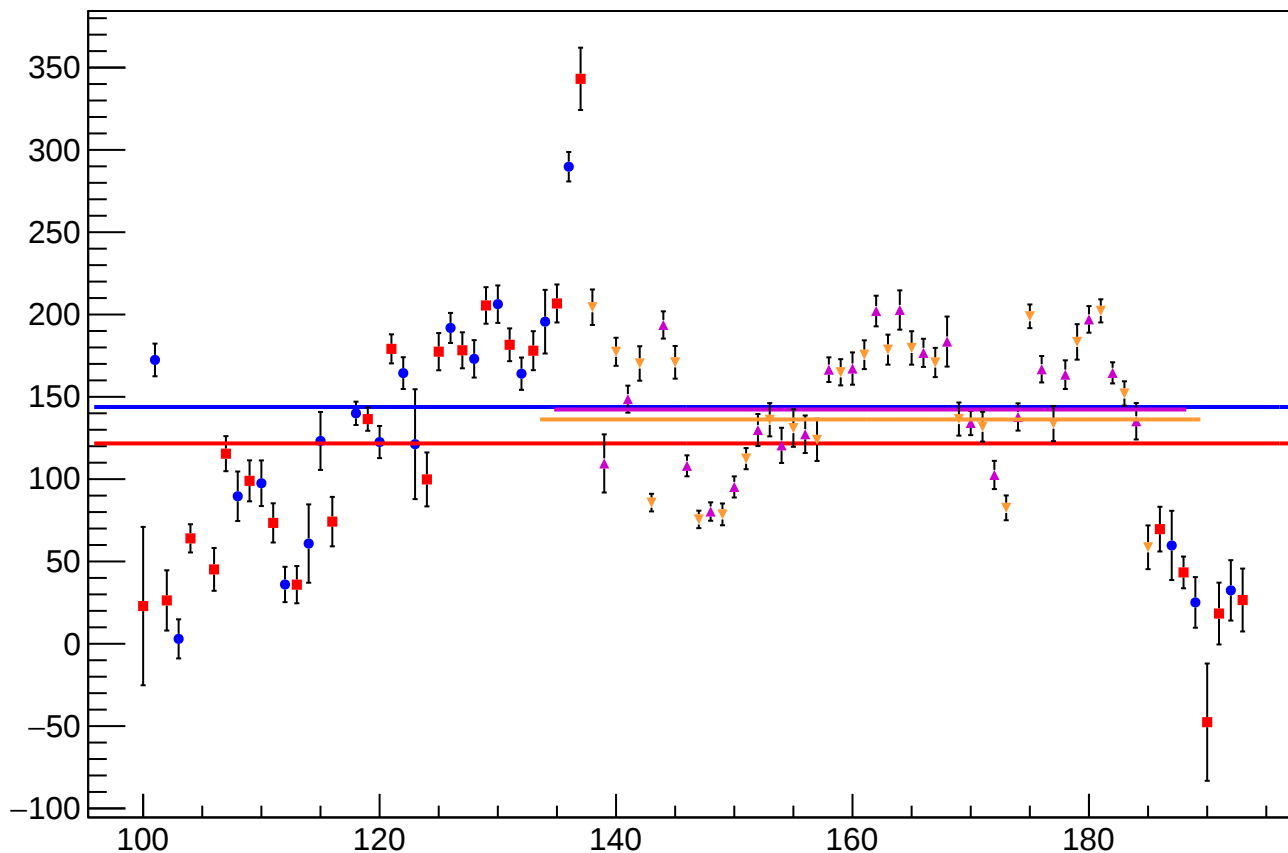
Right: 571.980 $\pm$ 1.934 χ^2 /NDF: 8064.5/43

In: 468.475 $\pm$ 1.685 χ^2 /NDF:7046.6/42

Out: 477.832 $\pm$ 1.494 χ^2 /NDF:11040.4/48

All: 473.715 $\pm$ 1.118 χ^2 /NDF: 18104.3/91

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 143.818 $\pm$ 2.625 χ^2 /NDF: 752.3/19

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 121.697 $\pm$ 2.438 χ^2 /NDF: 764.1/23

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF: 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

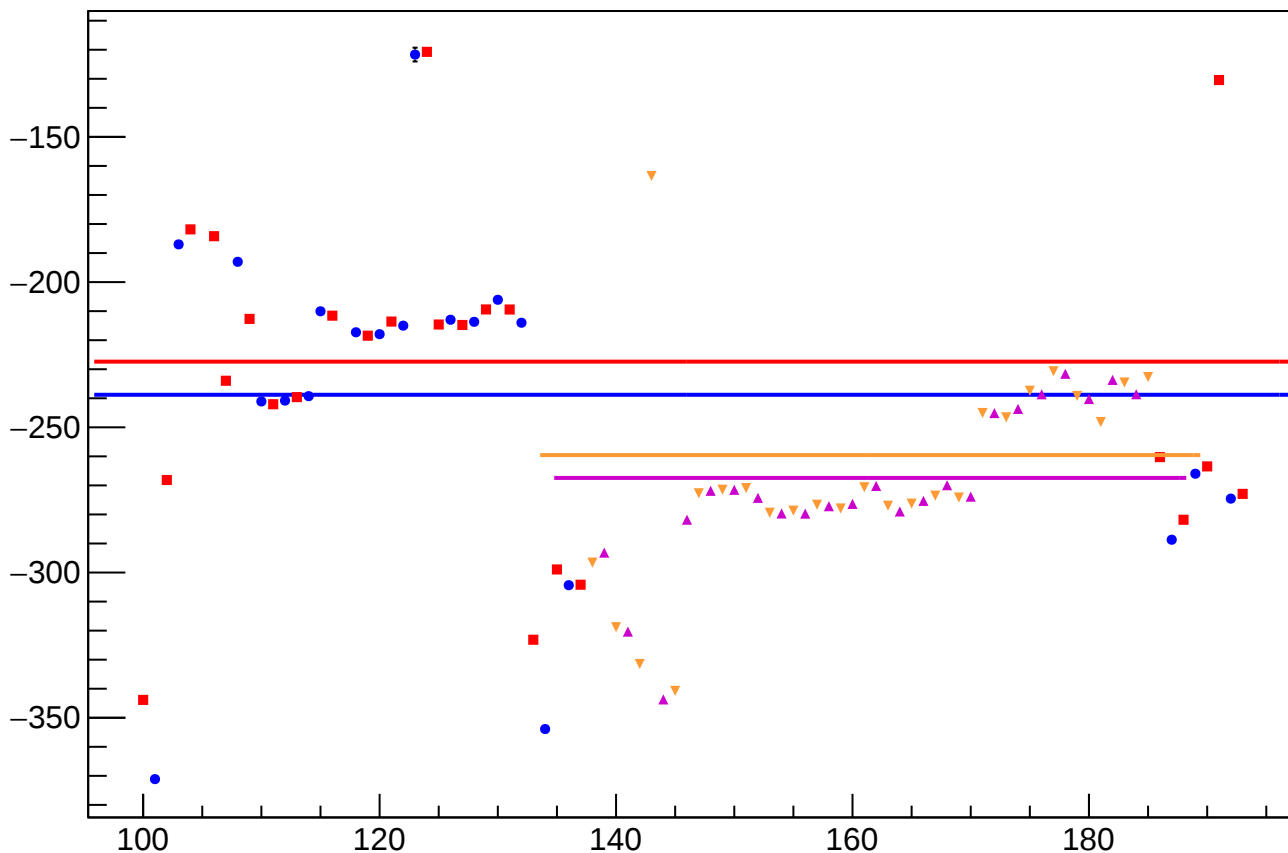
Right: 131.940 $\pm$ 1.786 χ^2 /NDF: 1554.5/43

In: 142.763 $\pm$ 1.453 χ^2 /NDF: 1212.3/42

Out: 131.680 $\pm$ 1.367 χ^2 /NDF: 1546.8/48

All: 136.883 $\pm$ 0.996 χ^2 /NDF: 2790.0/91

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -238.791 ± 0.141 χ^2/NDF : 152743.1/19

Left Out: -259.557 ± 0.079 χ^2/NDF : 238235.2/24

Right Out: -227.385 ± 0.127 χ^2/NDF : 154097.5/23

Left In: -267.417 ± 0.082 χ^2/NDF : 98035.5/22

Left: -263.361 ± 0.057 χ^2/NDF : 341051.4/47

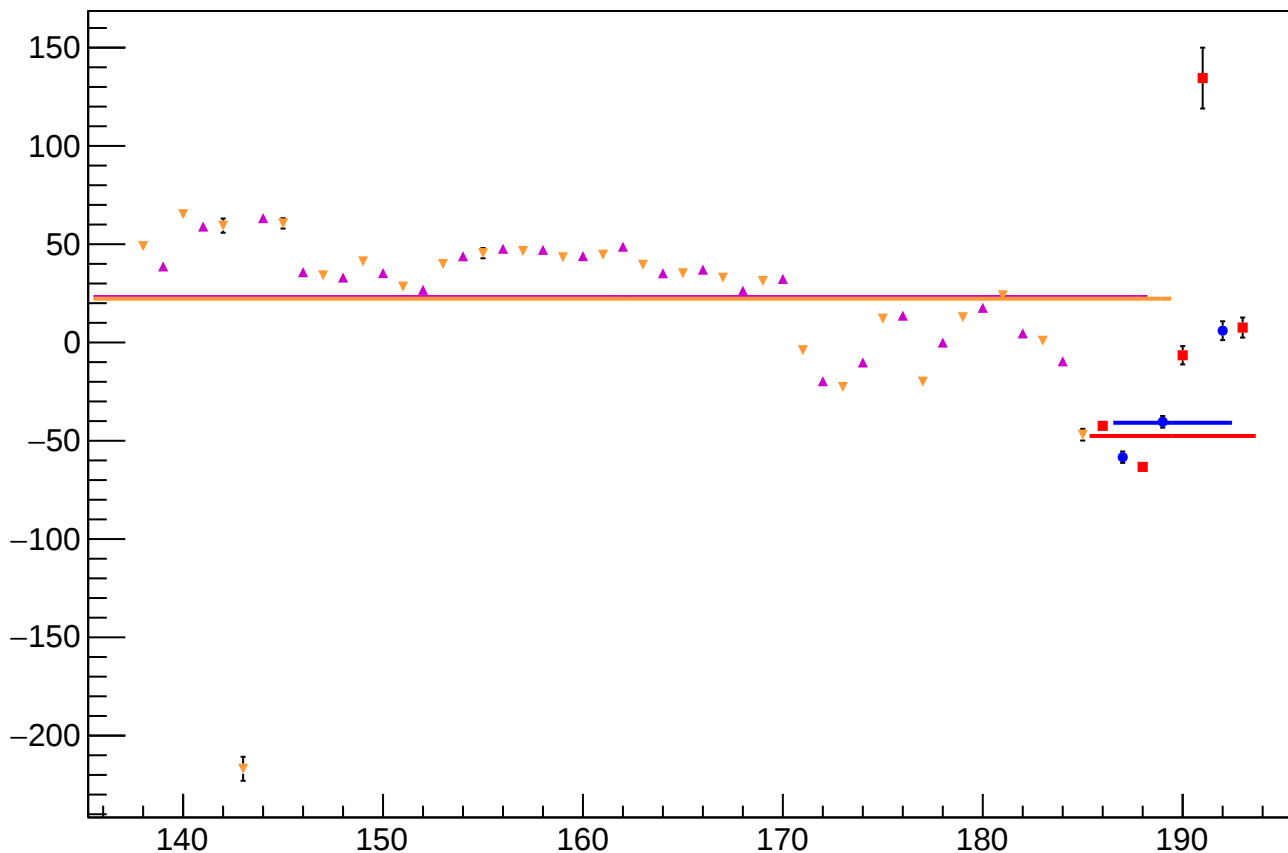
Right: -232.488 ± 0.094 χ^2/NDF : 310466.3/43

In: -260.212 ± 0.071 χ^2/NDF : 281702.1/42

Out: -250.537 ± 0.067 χ^2/NDF : 438724.2/48

All: -255.125 ± 0.049 χ^2/NDF : 730285.7/91

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -40.839 ± 1.897 $\chi^2/\text{NDF}: 132.4/2$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -47.552 ± 1.099 $\chi^2/\text{NDF}: 443.4/4$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

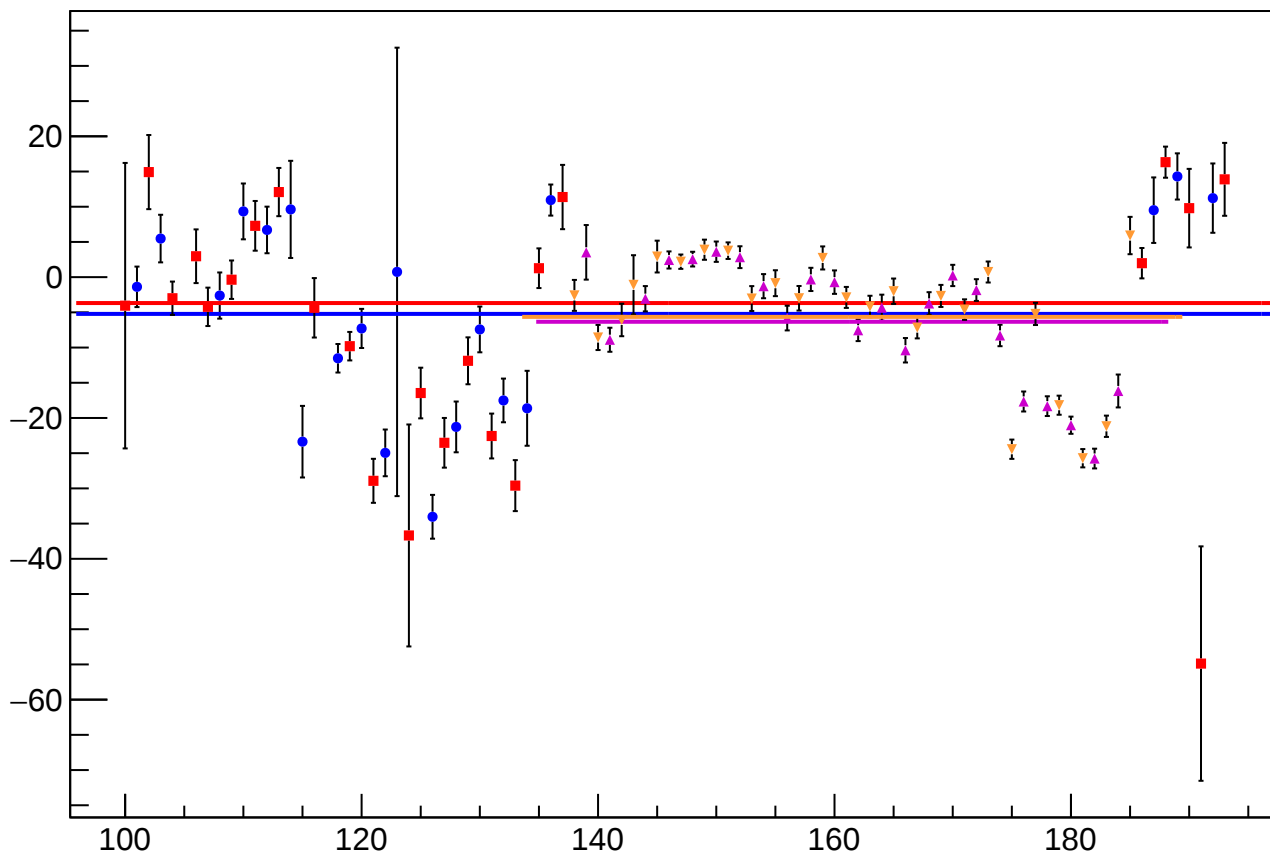
Right: -45.865 ± 0.951 $\chi^2/\text{NDF}: 585.2/7$

In: 20.394 ± 0.393 $\chi^2/\text{NDF}: 3965.8/25$

Out: 14.159 ± 0.375 $\chi^2/\text{NDF}: 9180.3/29$

All: 17.131 ± 0.271 $\chi^2/\text{NDF}: 13278.0/55$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.220 ± 0.749 χ^2/NDF : 340.3/19

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -3.678 ± 0.672 χ^2/NDF : 393.2/23

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

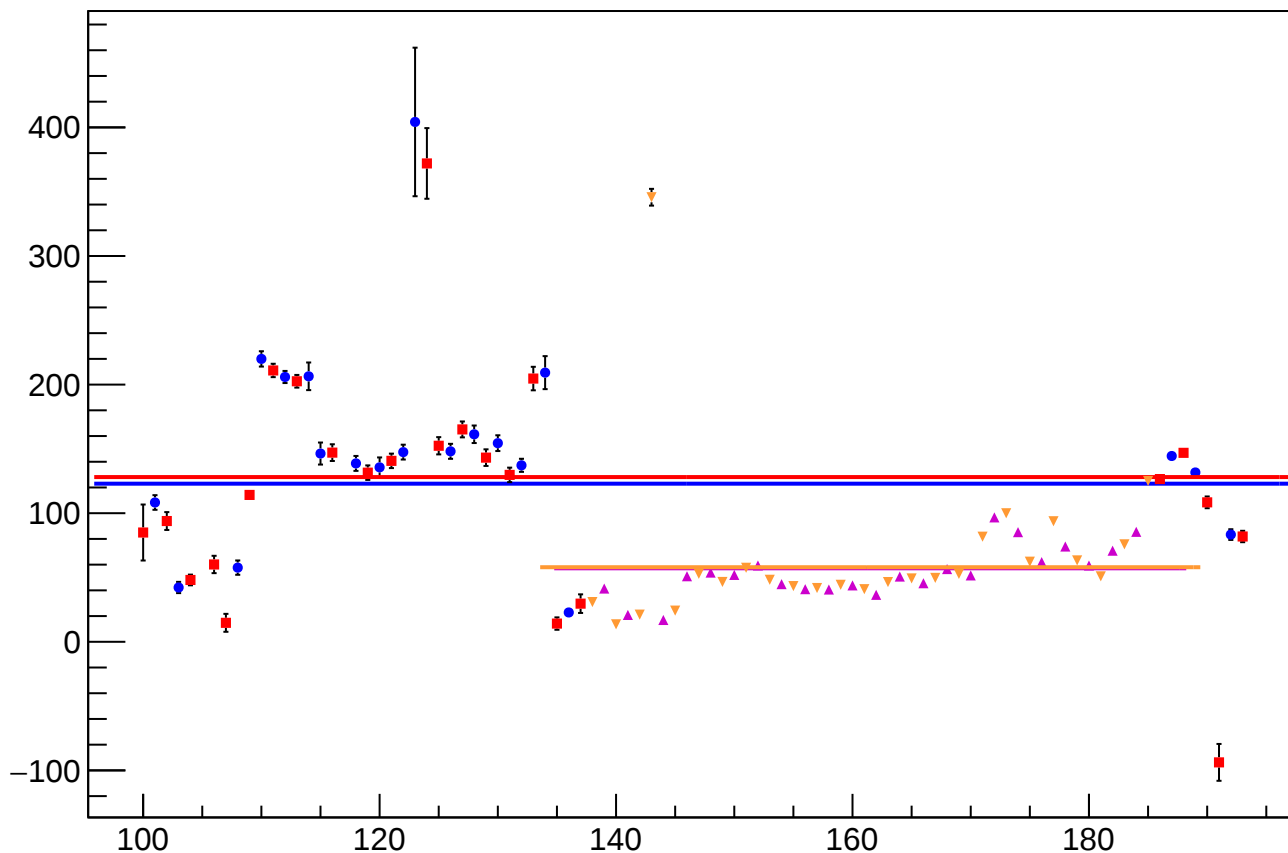
Right: -4.365 ± 0.500 χ^2/NDF : 735.9/43

In: -6.164 ± 0.295 χ^2/NDF : 1125.2/42

Out: -5.287 ± 0.286 χ^2/NDF : 1294.0/48

All: -5.711 ± 0.205 χ^2/NDF : 2423.7/91

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 122.950 $\pm$ 1.059 χ^2 /NDF: 2361.1/19

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 128.092 $\pm$ 0.749 χ^2 /NDF: 2813.6/23

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

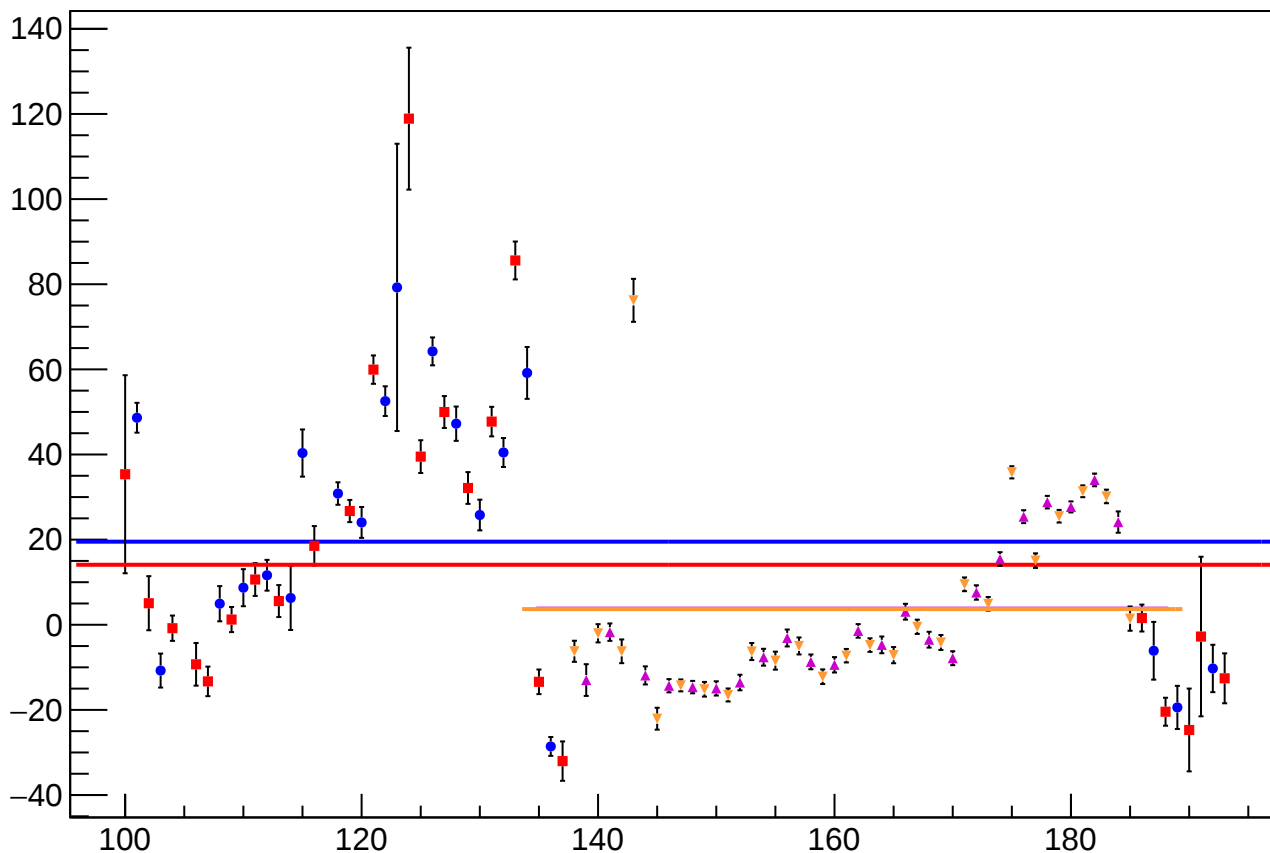
Right: 126.379 $\pm$ 0.611 χ^2 /NDF: 5190.5/43

In: 65.336 $\pm$ 0.374 χ^2 /NDF:7543.5/42

Out: 73.436 $\pm$ 0.351 χ^2 /NDF:14286.8/48

All: 69.636 $\pm$ 0.256 χ^2 /NDF: 22079.5/91

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.520 $\pm$ 0.868 χ^2 /NDF: 1170.7/19

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 14.097 $\pm$ 0.803 χ^2 /NDF: 1254.4/23

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

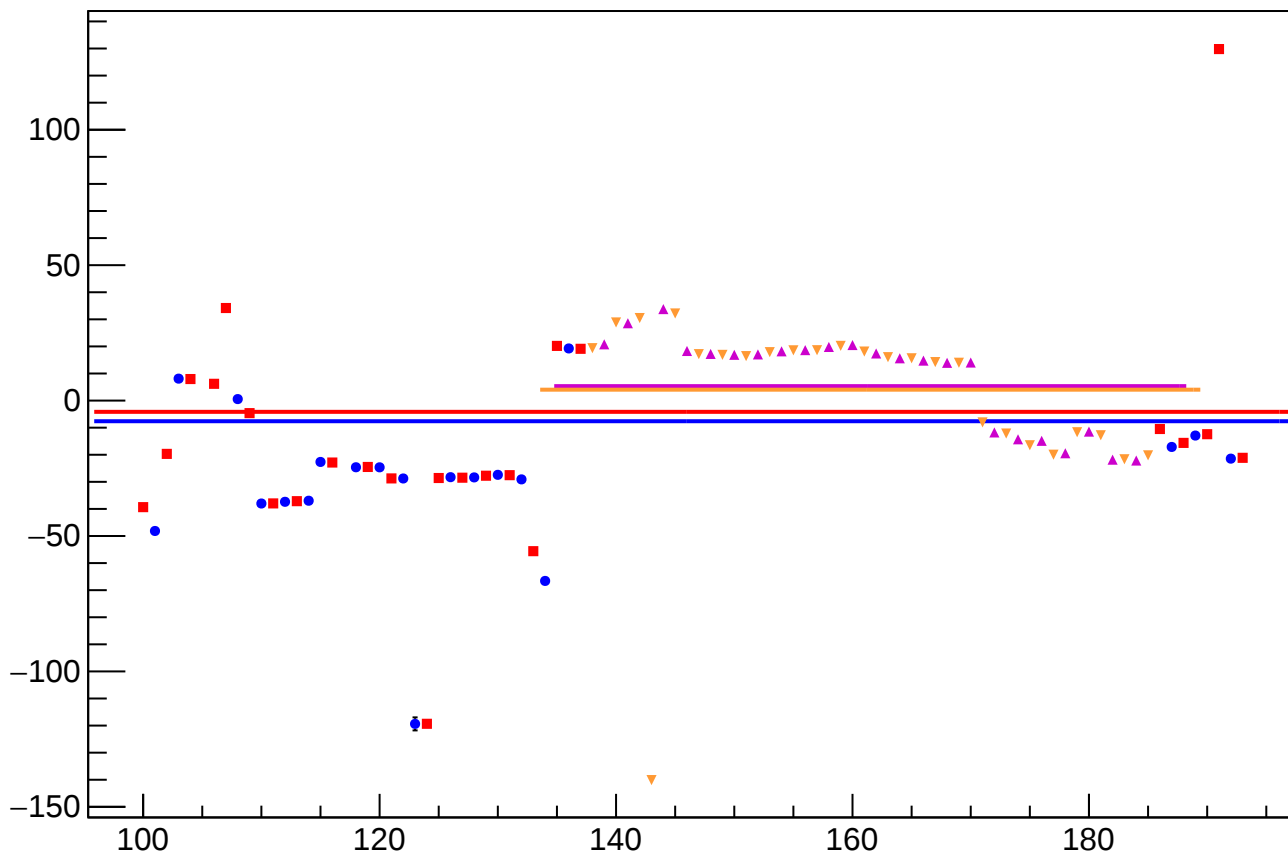
Right: 16.599 $\pm$ 0.590 χ^2 /NDF: 2446.2/43

In: 6.114 $\pm$ 0.334 χ^2 /NDF:3649.4/42

Out: 5.399 $\pm$ 0.326 χ^2 /NDF:3936.4/48

All: 5.748 $\pm$ 0.233 χ^2 /NDF: 7588.1/91

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -7.620 ± 0.044 χ^2/NDF : 272208.9/19

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -4.153 ± 0.042 χ^2/NDF : 348922.8/23

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

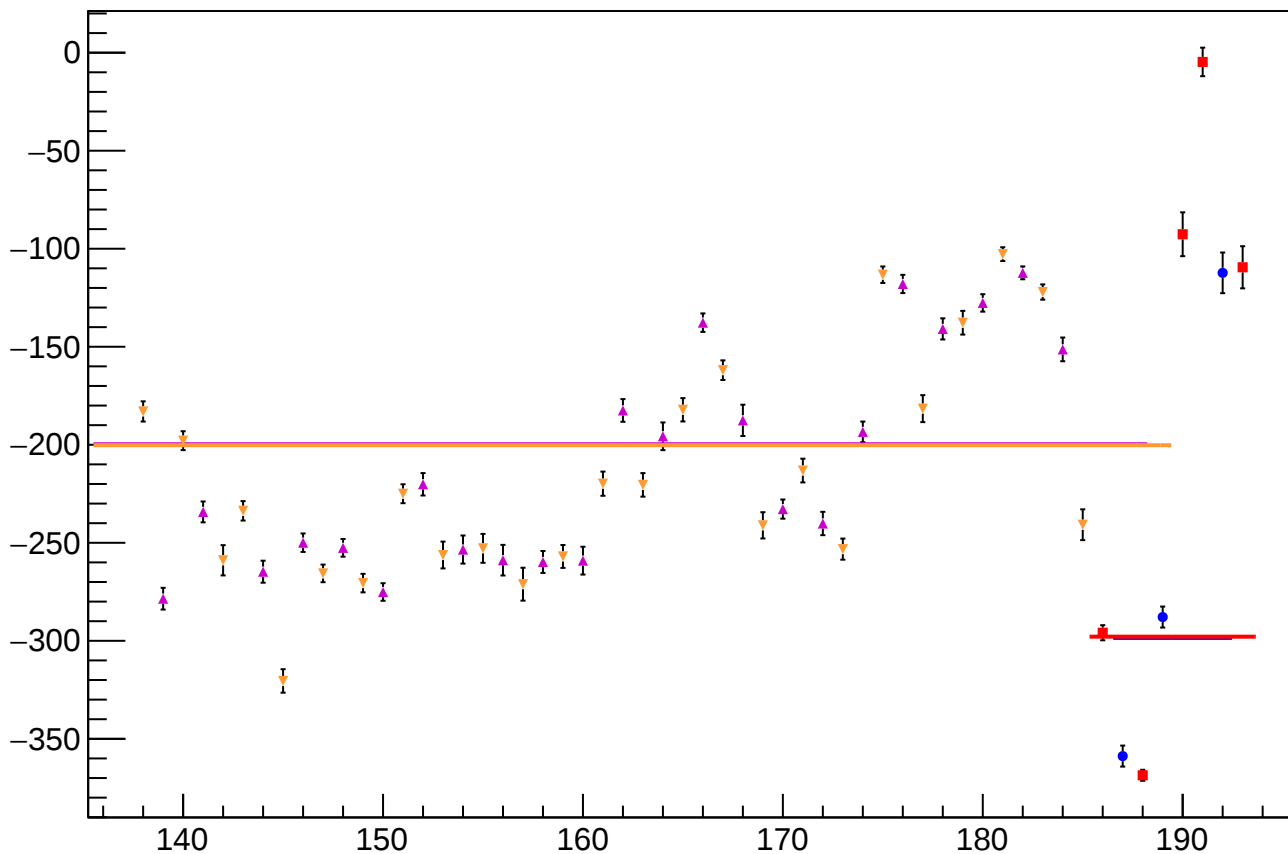
Right: -5.800 ± 0.030 χ^2/NDF : 624436.4/43

In: 3.732 ± 0.015 χ^2/NDF : 1427023.5/42

Out: 2.928 ± 0.015 χ^2/NDF : 1765591.2/48

All: 3.326 ± 0.011 χ^2/NDF : 3193995.7/91

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected

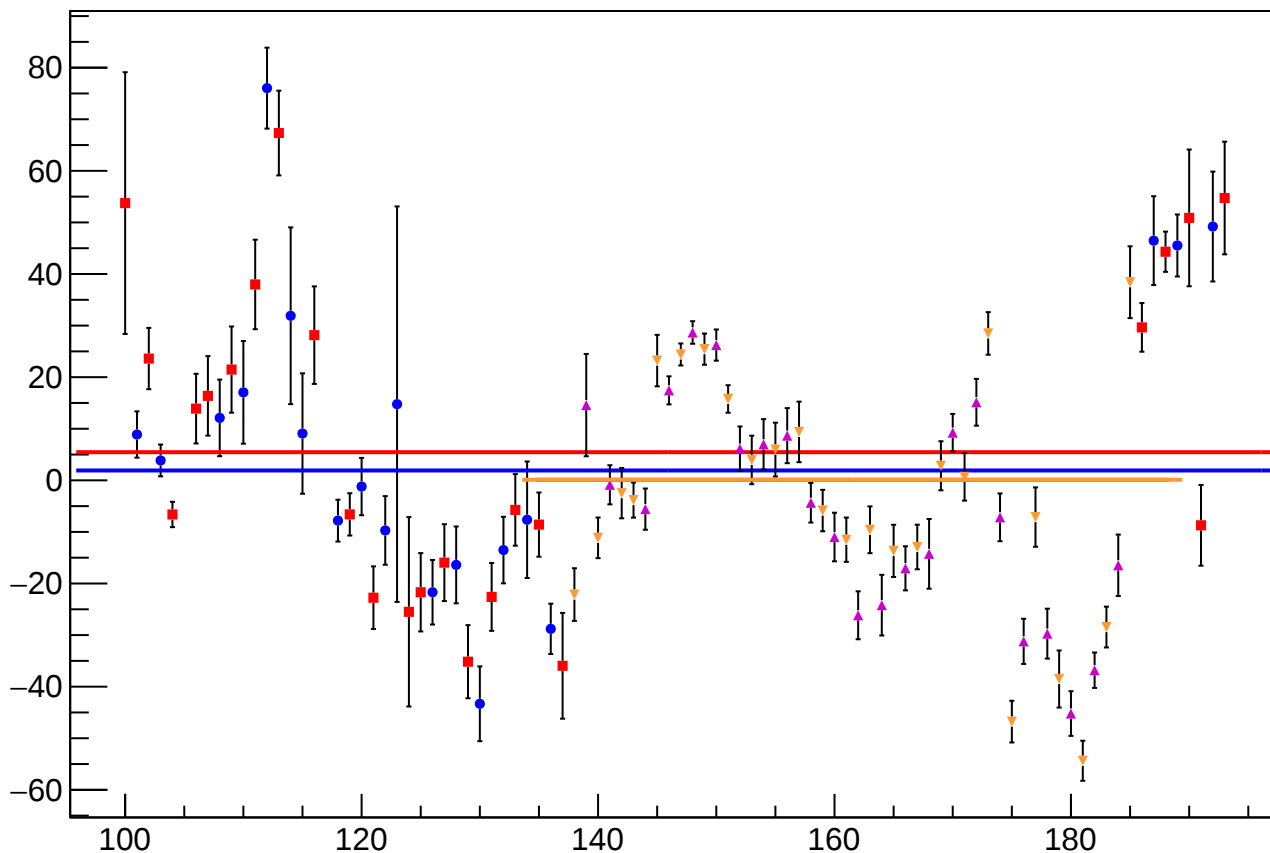


Right In: -298.506 $\pm$ 3.556 χ^2 /NDF: 453.0/2
 Left Out: -200.228 $\pm$ 1.078 χ^2 /NDF:3225.0/24
 Right Out: -297.885 $\pm$ 2.089 χ^2 /NDF: 2899.0/4
 Left In: -199.739 $\pm$ 1.097 χ^2 /NDF:2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2 /NDF: 6193.2/47
 Right: -298.044 $\pm$ 1.801 χ^2 /NDF: 3352.1/7
 In: -208.328 $\pm$ 1.049 χ^2 /NDF:4125.4/25
 Out: -220.767 $\pm$ 0.958 χ^2 /NDF:7850.6/29

All: -215.109 $\pm$ 0.707 χ^2 /NDF: 12052.7/55

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.912 ± 1.396 χ^2/NDF : 313.3/19

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 5.457 ± 1.237 χ^2/NDF : 411.2/23

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

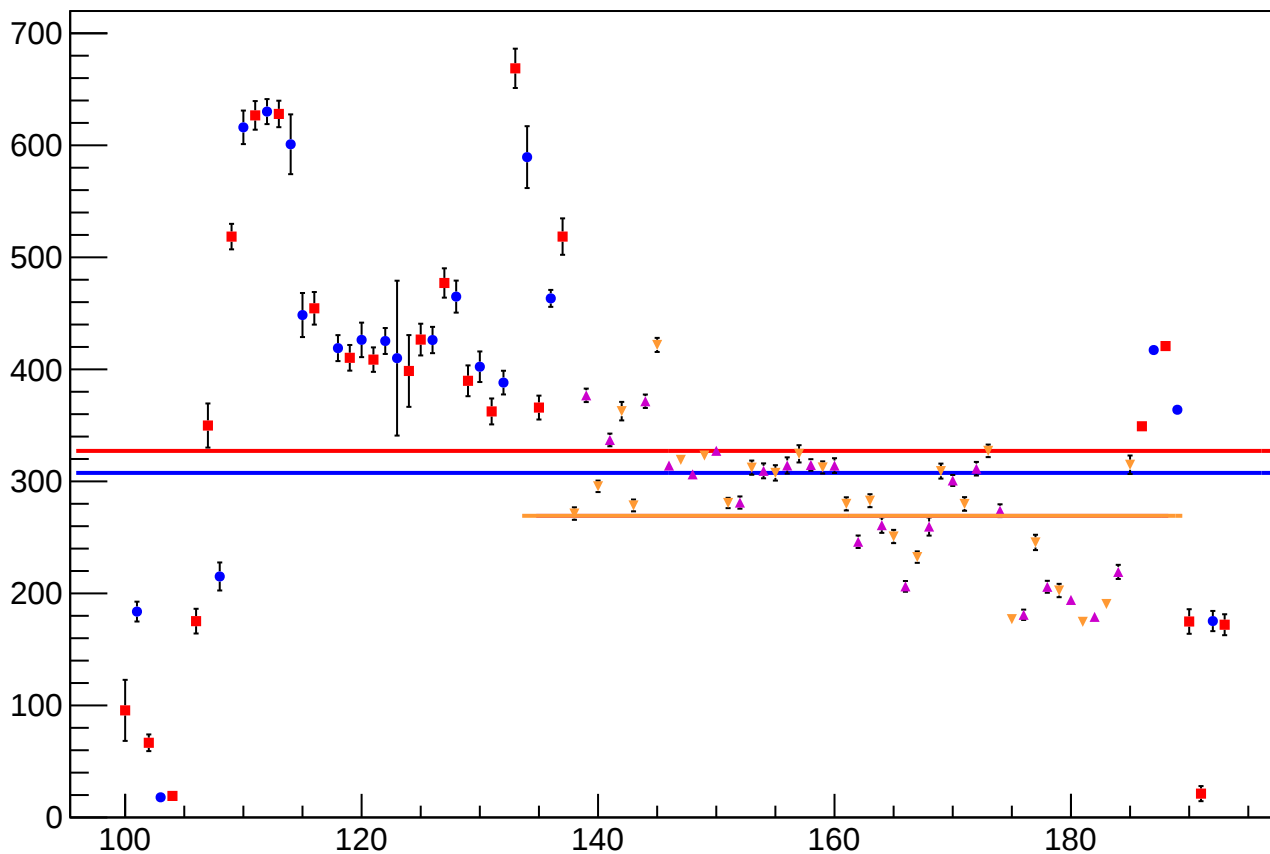
Right: 3.897 ± 0.926 χ^2/NDF : 728.0/43

In: 0.578 ± 0.718 χ^2/NDF : 1030.0/42

Out: 1.705 ± 0.676 χ^2/NDF : 1255.5/48

All: 1.176 ± 0.492 χ^2/NDF : 2286.8/91

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 307.568+/-1.905 χ^2/NDF : 8904.9/19

Left Out: 269.278+/-1.078 χ^2/NDF : 3146.7/24

Right Out: 327.205+/-1.402 χ^2/NDF : 13215.5/23

Left In: 269.191+/-1.091 χ^2/NDF : 3170.2/22

Left: 269.235+/-0.767 χ^2/NDF : 6316.9/47

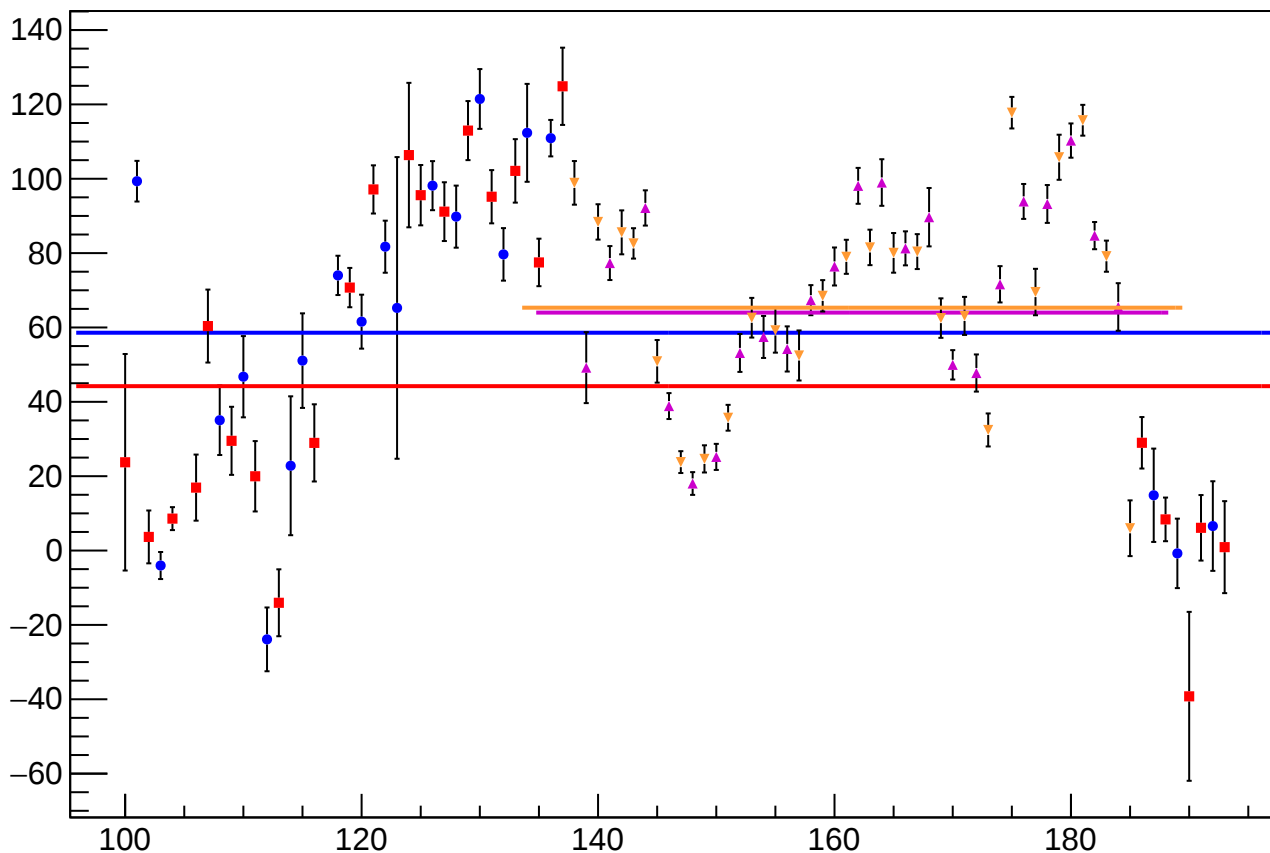
Right: 320.307+/-1.129 χ^2/NDF : 22189.3/43

In: 278.665+/-0.946 χ^2/NDF : 12380.8/42

Out: 290.796+/-0.854 χ^2/NDF : 17435.6/48

All: 285.349+/-0.634 χ^2/NDF : 29906.9/91

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 58.586 $\pm$ 1.639 χ^2 /NDF: 797.0/19

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 44.215 $\pm$ 1.505 χ^2 /NDF: 754.6/23

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

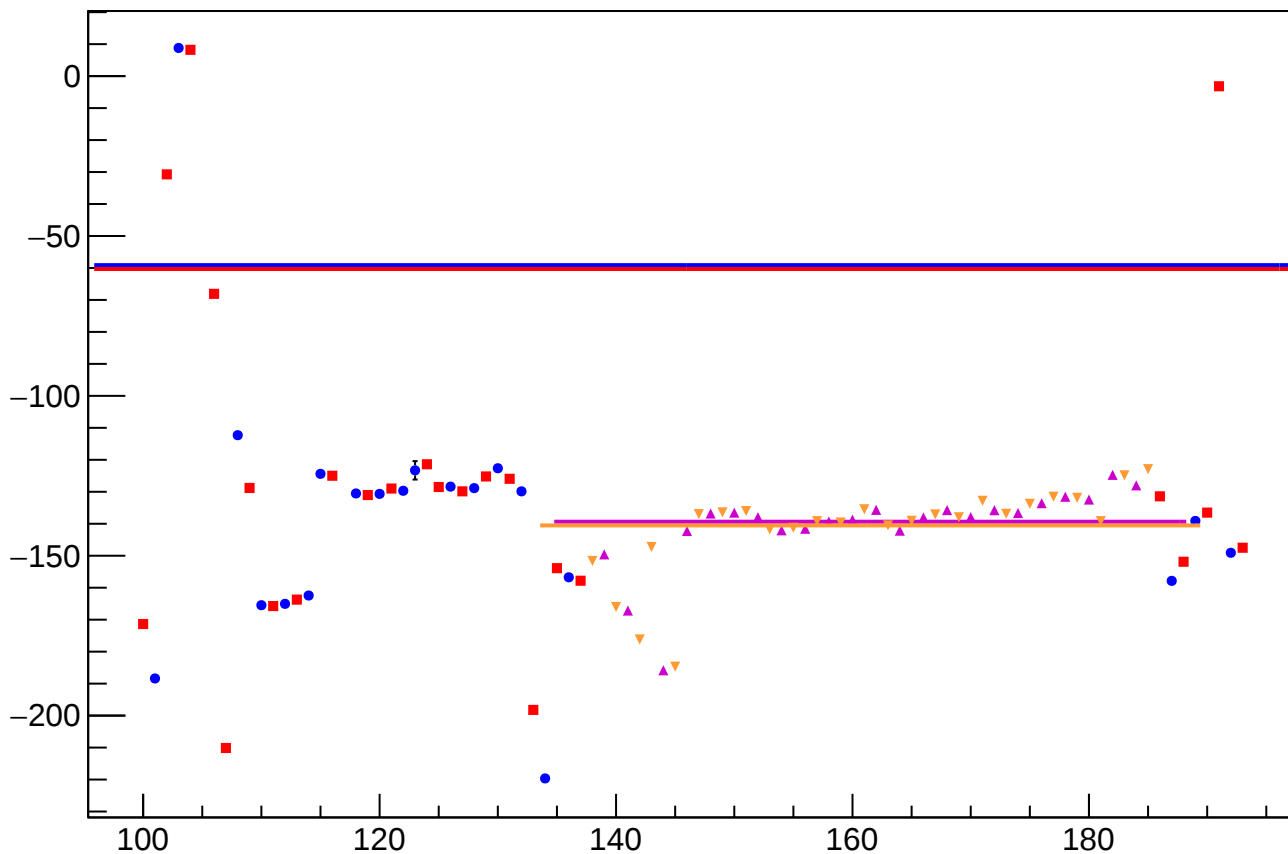
Right: 50.789 $\pm$ 1.109 χ^2 /NDF: 1593.2/43

In: 62.611 $\pm$ 0.830 χ^2 /NDF:1604.5/42

Out: 59.450 $\pm$ 0.794 χ^2 /NDF:1903.6/48

All: 60.960 $\pm$ 0.574 χ^2 /NDF: 3515.7/91

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -59.113+/-0.068 χ^2/NDF : 1336604.7/19

Left Out: -140.519+/-0.045 χ^2/NDF : 77489.0/24

Right Out: -60.320+/-0.066 χ^2/NDF : 1194620.8/23

Left In: -139.360+/-0.045 χ^2/NDF : 62449.0/22

Left: -139.945+/-0.032 χ^2/NDF : 140272.6/47

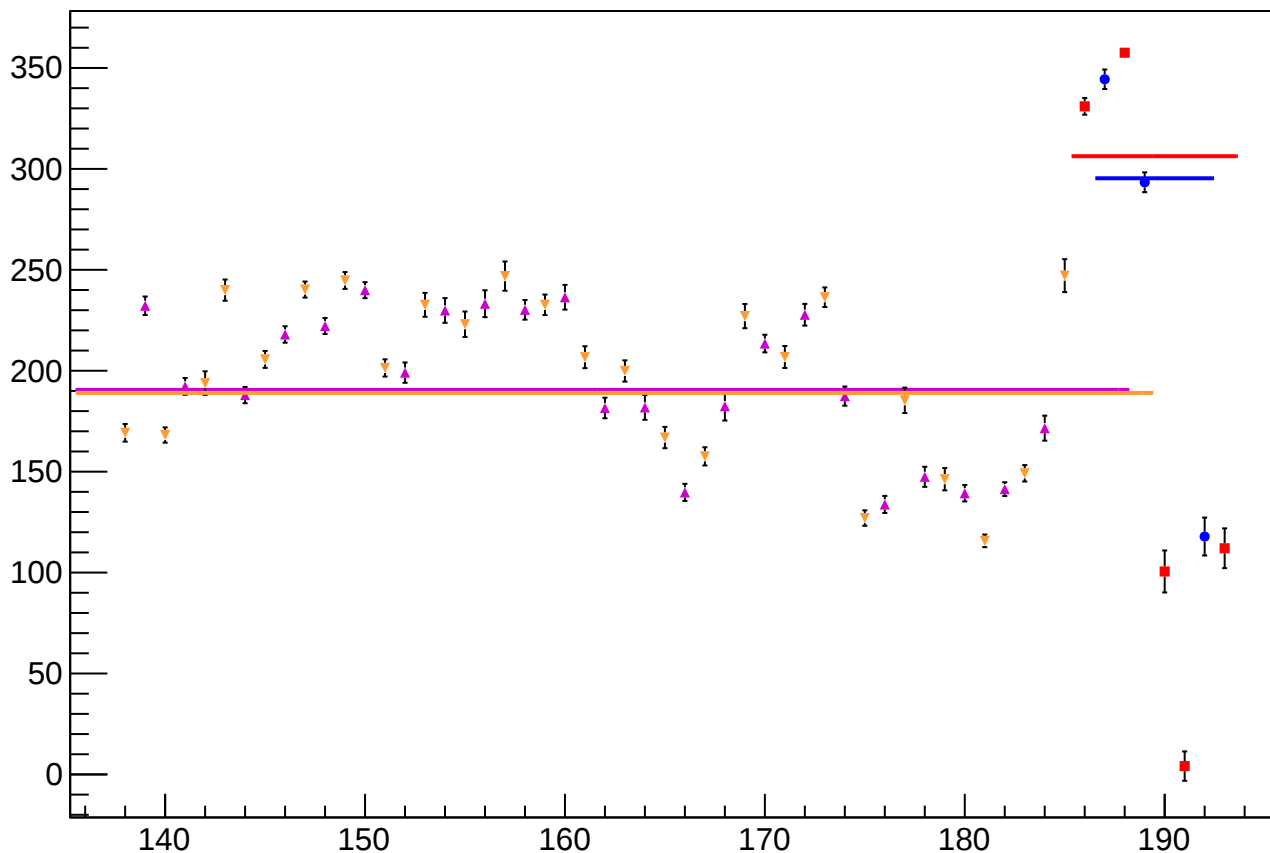
Right: -59.741+/-0.047 χ^2/NDF : 2531388.5/43

In: -115.003+/-0.038 χ^2/NDF : 2363873.2/42

Out: -115.160+/-0.037 χ^2/NDF : 2296669.0/48

All: -115.083+/-0.026 χ^2/NDF : 4660551.2/91

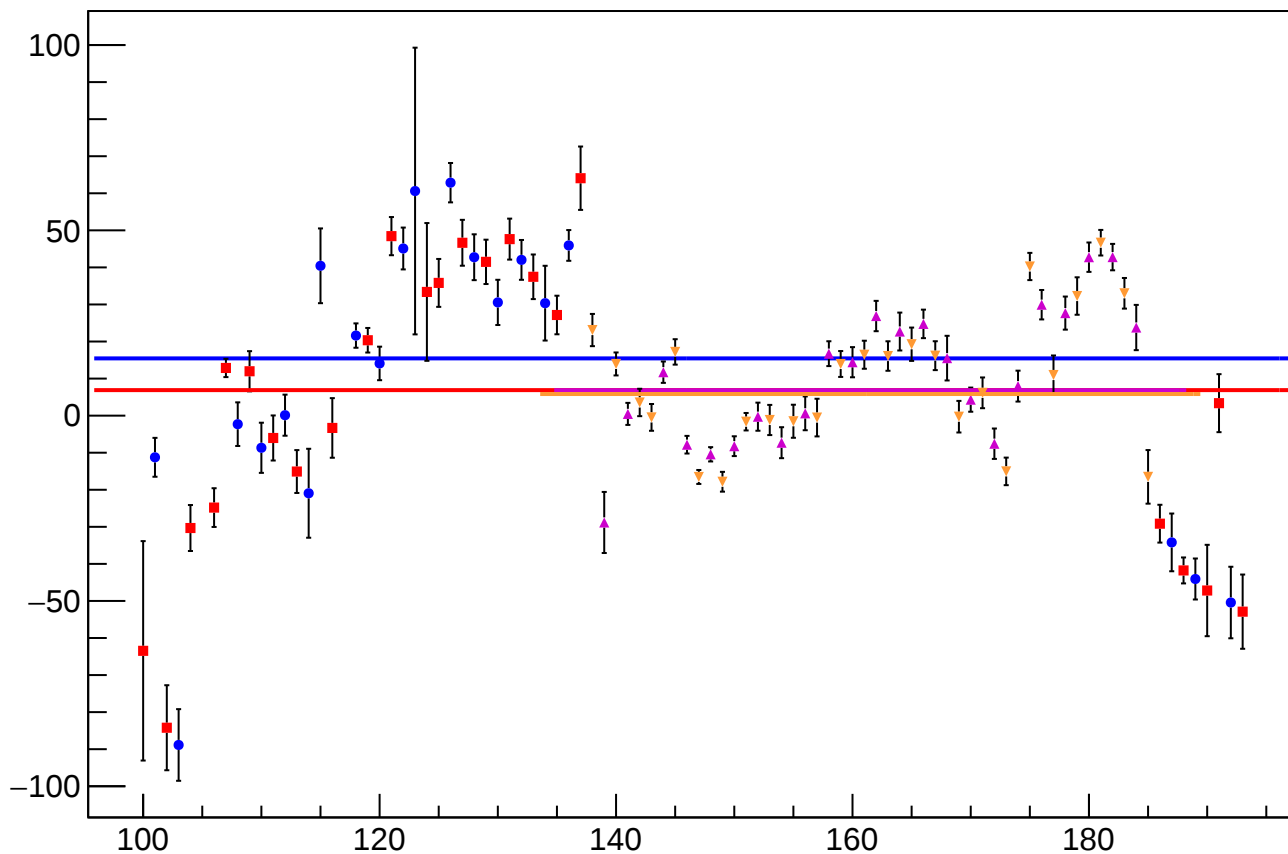
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 295.359 $\pm$ 3.237 χ^2 /NDF: 459.9/2
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 306.288 $\pm$ 1.978 χ^2 /NDF: 2956.2/4
 Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47
 Right: 303.317 $\pm$ 1.688 χ^2 /NDF: 3424.4/7
 In: 199.228 $\pm$ 0.934 χ^2 /NDF:2834.5/25
 Out: 211.233 $\pm$ 0.861 χ^2 /NDF:7786.5/29
 All: 205.718 $\pm$ 0.633 χ^2 /NDF: 10710.3/55

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.448+/-1.323 χ^2/NDF : 608.6/19

Left Out: 5.834+/-0.712 χ^2/NDF : 652.2/24

Right Out: 6.887+/-1.107 χ^2/NDF : 785.3/23

Left In: 6.862+/-0.736 χ^2/NDF : 522.7/22

Left: 6.331+/-0.512 χ^2/NDF : 1176.0/47

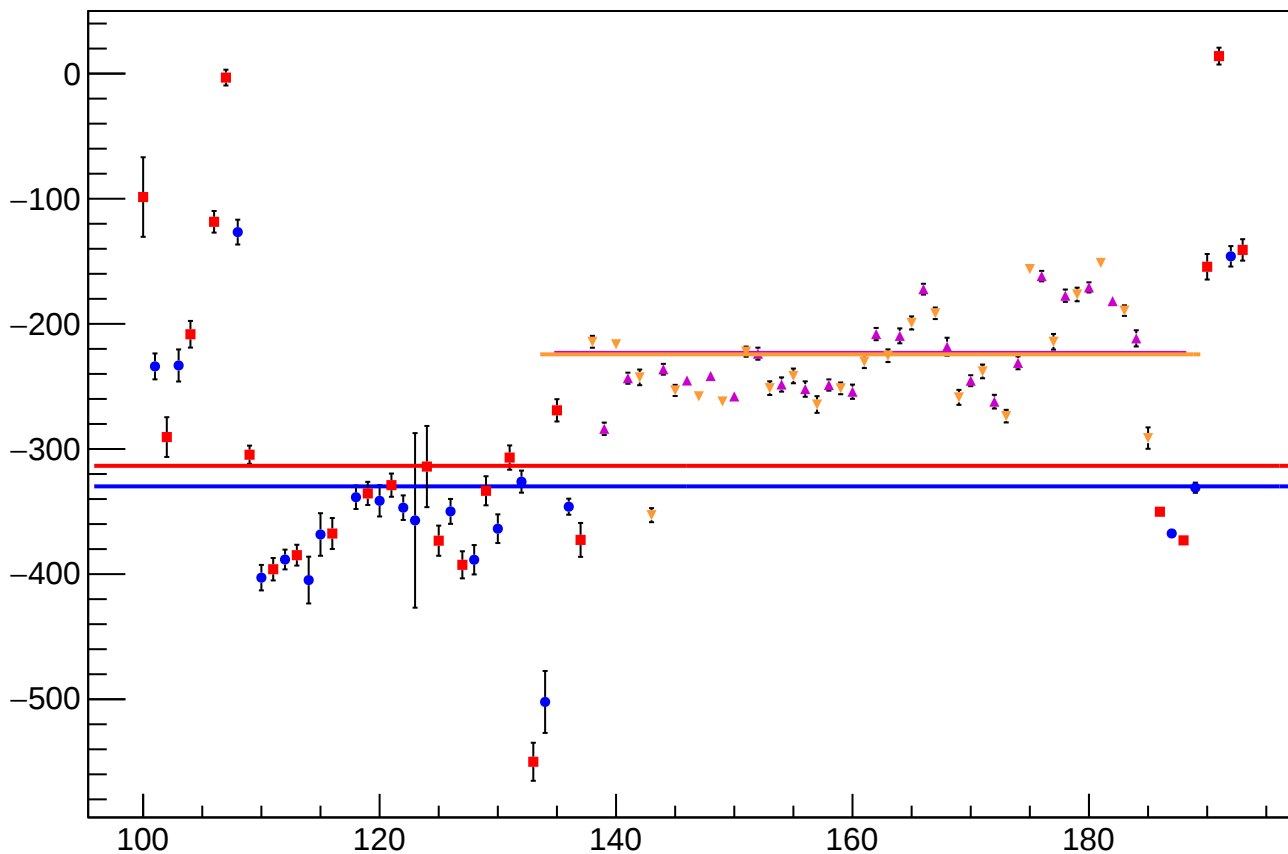
Right: 10.415+/-0.849 χ^2/NDF : 1418.5/43

In: 8.893+/-0.643 χ^2/NDF : 1163.5/42

Out: 6.142+/-0.599 χ^2/NDF : 1438.1/48

All: 7.420+/-0.438 χ^2/NDF : 2611.4/91

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -329.869+/-1.863 χ^2/NDF : 1382.8/19

Left Out: -224.364+/-0.956 χ^2/NDF : 2103.2/24

Right Out: -313.455+/-1.327 χ^2/NDF : 7629.7/23

Left In: -223.223+/-0.969 χ^2/NDF : 1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

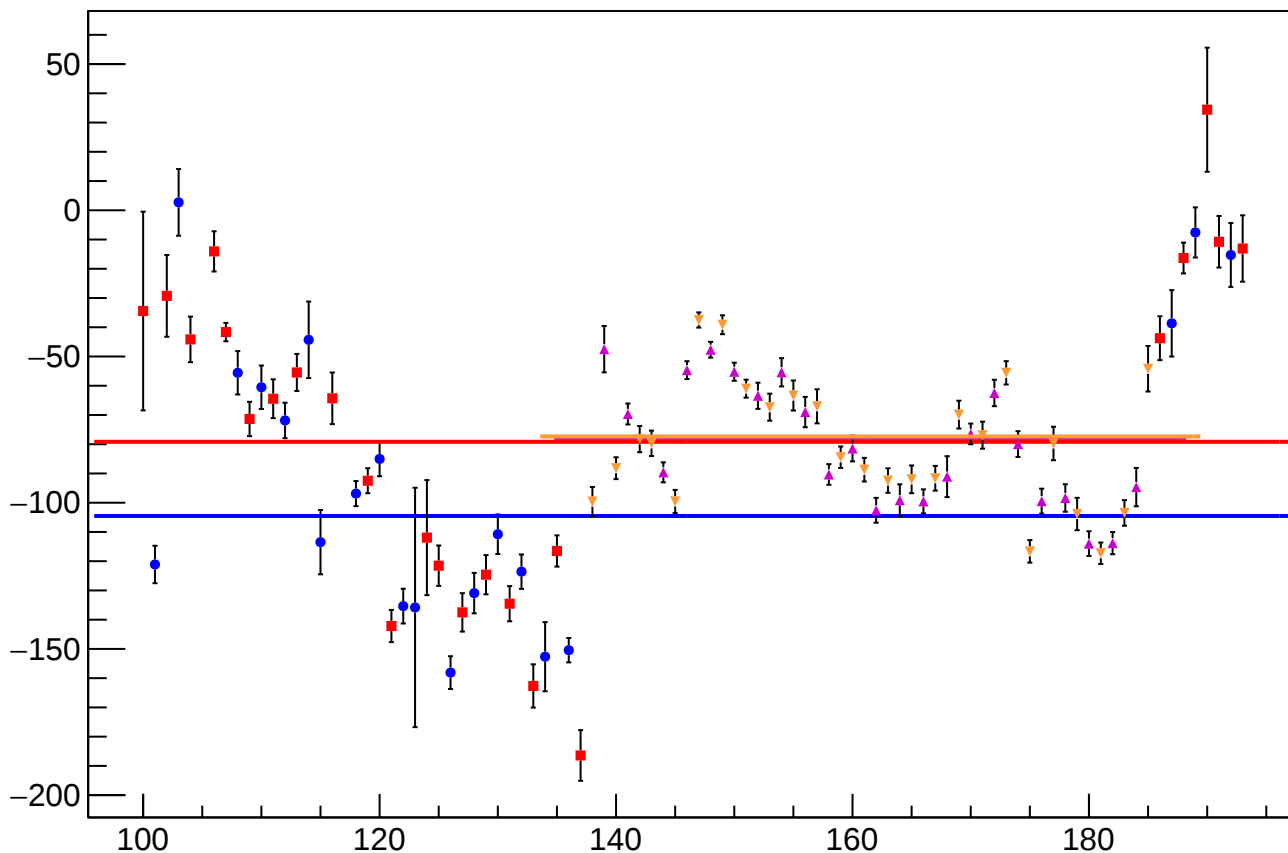
Right: -318.980+/-1.081 χ^2/NDF : 9064.0/43

In: -245.941+/-0.860 χ^2/NDF : 5231.4/42

Out: -254.809+/-0.776 χ^2/NDF : 12700.6/48

All: -250.830+/-0.576 χ^2/NDF : 17990.6/91

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -104.536 ± 1.543 χ^2/NDF : 750.0/19

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -79.172 ± 1.334 χ^2/NDF : 1298.4/23

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

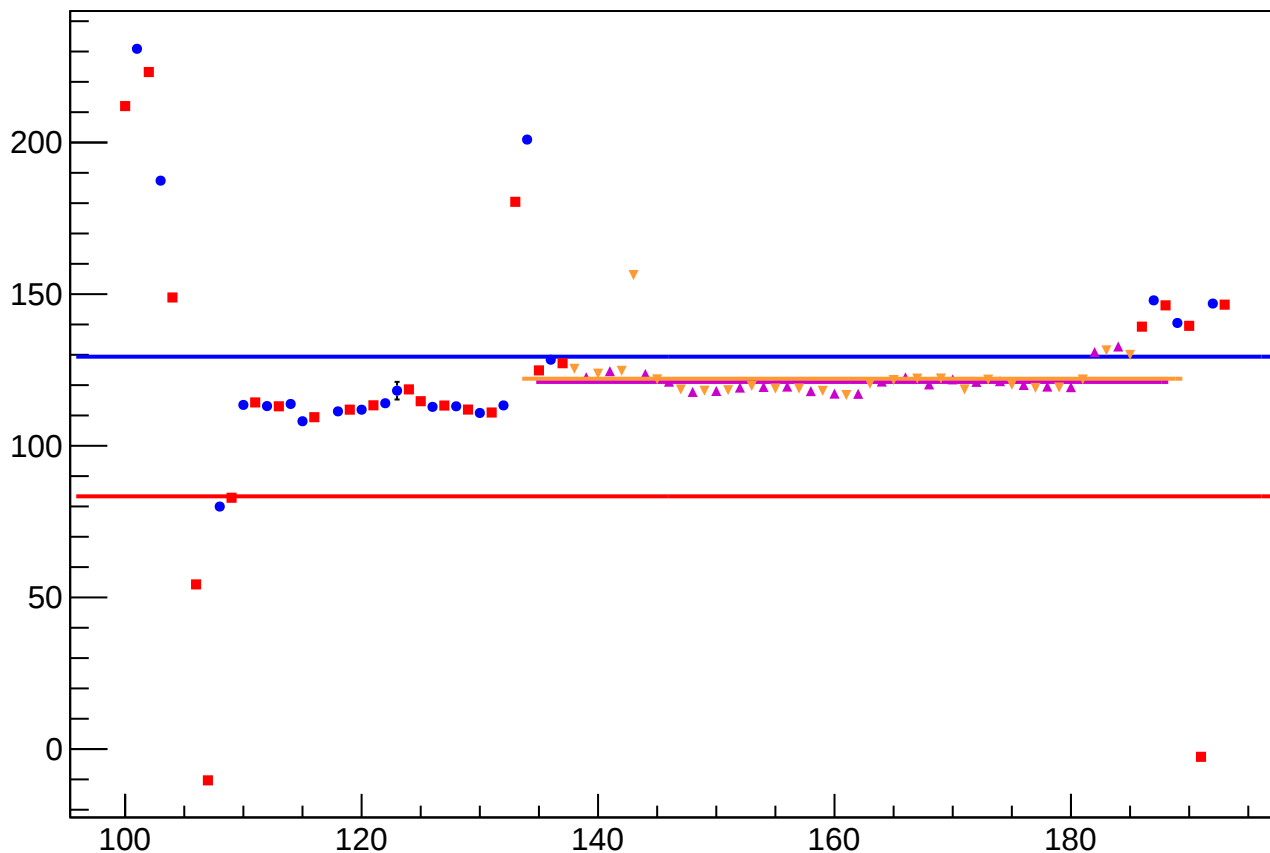
Right: -90.016 ± 1.009 χ^2/NDF : 2203.0/43

In: -84.039 ± 0.744 χ^2/NDF : 1602.6/42

Out: -77.851 ± 0.703 χ^2/NDF : 2146.0/48

All: -80.769 ± 0.511 χ^2/NDF : 3785.2/91

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 129.383 $\pm$ 0.084 χ^2 /NDF: 192326.7/19

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 83.335 $\pm$ 0.068 χ^2 /NDF: 990742.0/23

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

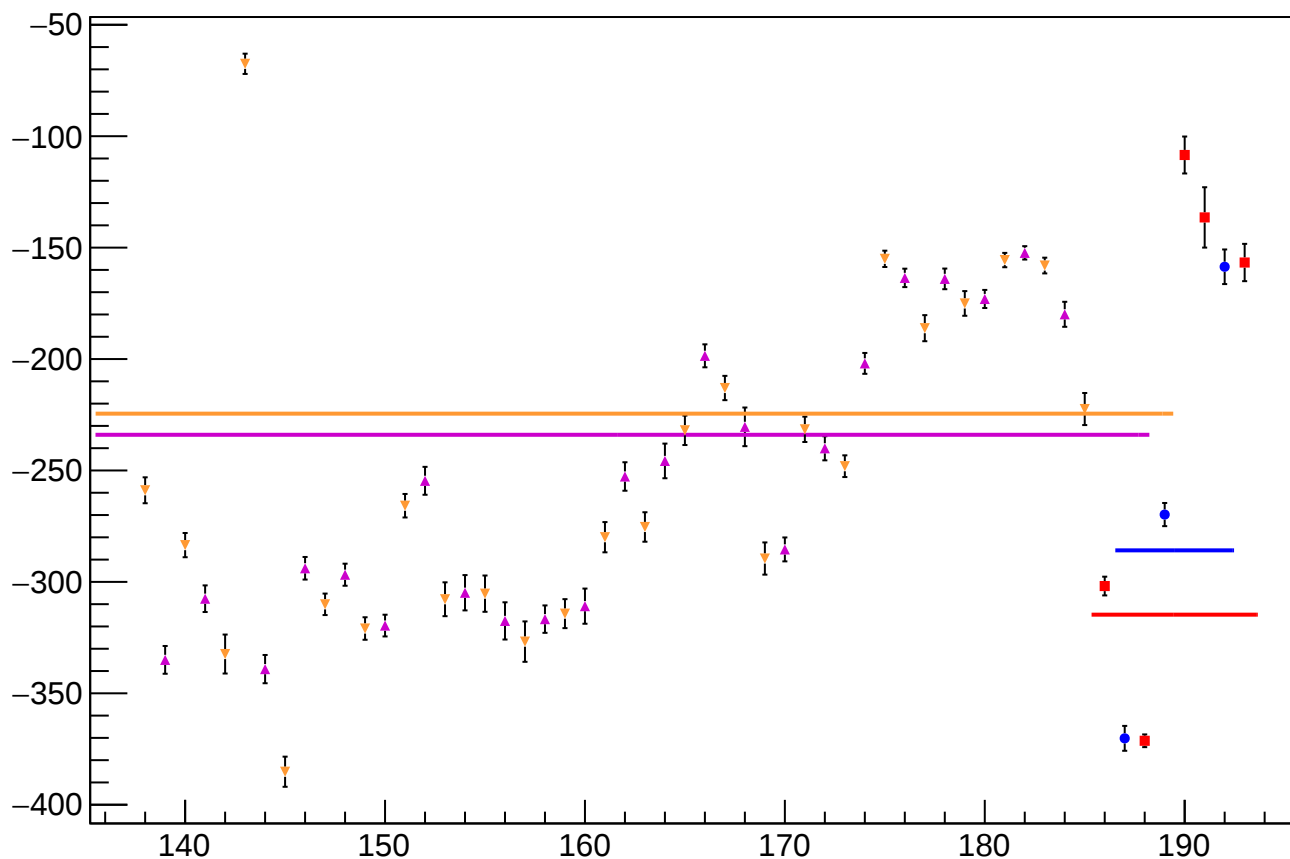
Right: 101.363 $\pm$ 0.053 χ^2 /NDF: 1364938.4/43

In: 122.571 $\pm$ 0.036 χ^2 /NDF:208254.4/42

Out: 112.272 $\pm$ 0.034 χ^2 /NDF:1267087.3/48

All: 117.143 $\pm$ 0.025 χ^2 /NDF: 1518631.8/91

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -285.850 ± 3.416 χ^2/NDF : 506.4/2

Left Out: -224.501 ± 1.079 χ^2/NDF : 4870.6/24

Right Out: -314.707 ± 2.163 χ^2/NDF : 1551.9/4

Left In: -233.988 ± 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 ± 0.773 χ^2/NDF : 8446.6/47

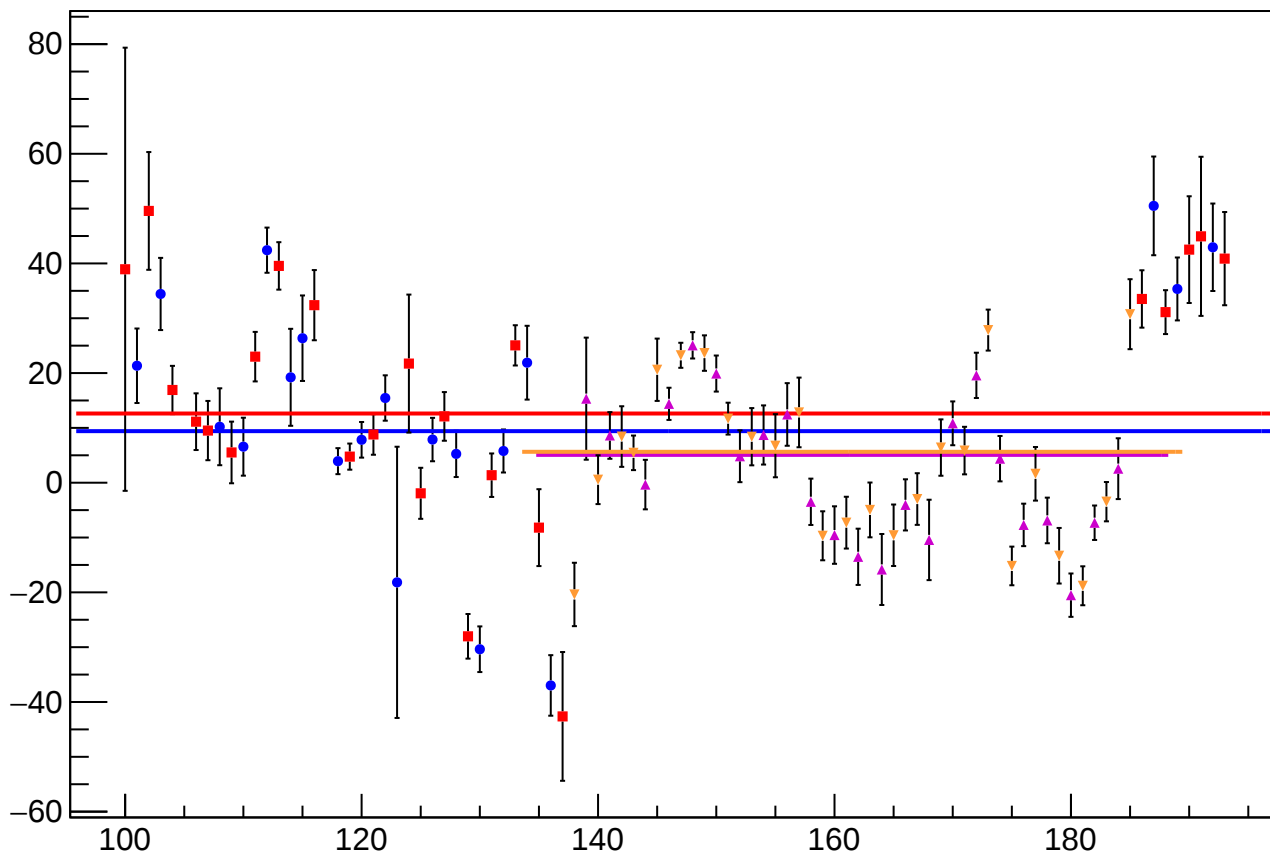
Right: -306.451 ± 1.827 χ^2/NDF : 2109.3/7

In: -238.928 ± 1.054 χ^2/NDF : 4253.3/25

Out: -242.480 ± 0.966 χ^2/NDF : 7815.4/29

All: -240.860 ± 0.712 χ^2/NDF : 12074.9/55

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.406 ± 1.068 $\chi^2/\text{NDF}: 323.1/19$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 12.622 ± 1.002 $\chi^2/\text{NDF}: 303.9/23$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

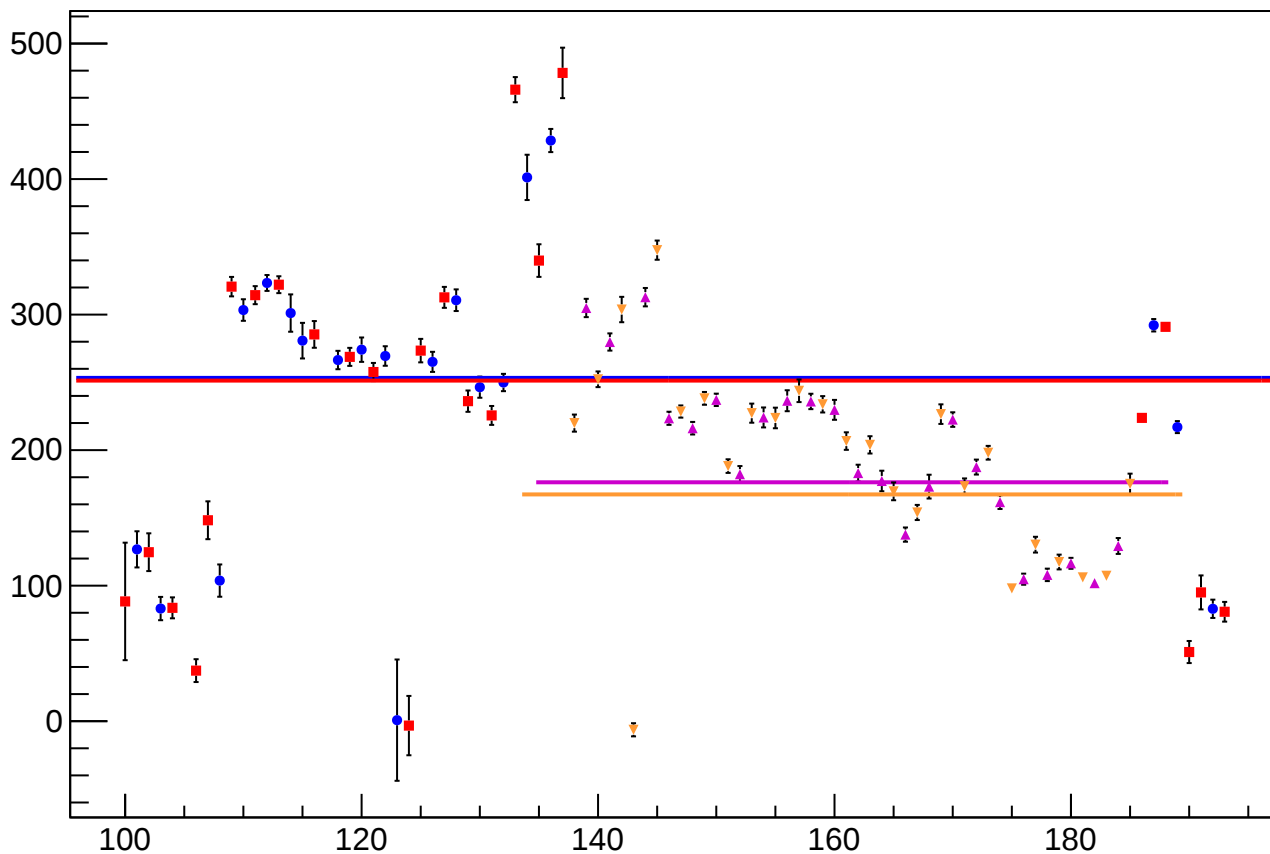
Right: 11.117 ± 0.730 $\chi^2/\text{NDF}: 631.8/43$

In: 6.802 ± 0.674 $\chi^2/\text{NDF}: 572.7/42$

Out: 8.473 ± 0.638 $\chi^2/\text{NDF}: 646.4/48$

All: 7.683 ± 0.463 $\chi^2/\text{NDF}: 1222.3/91$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.307 $\pm$ 1.694 χ^2 /NDF: 2212.9/19

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 251.316 $\pm$ 1.322 χ^2 /NDF: 4232.0/23

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

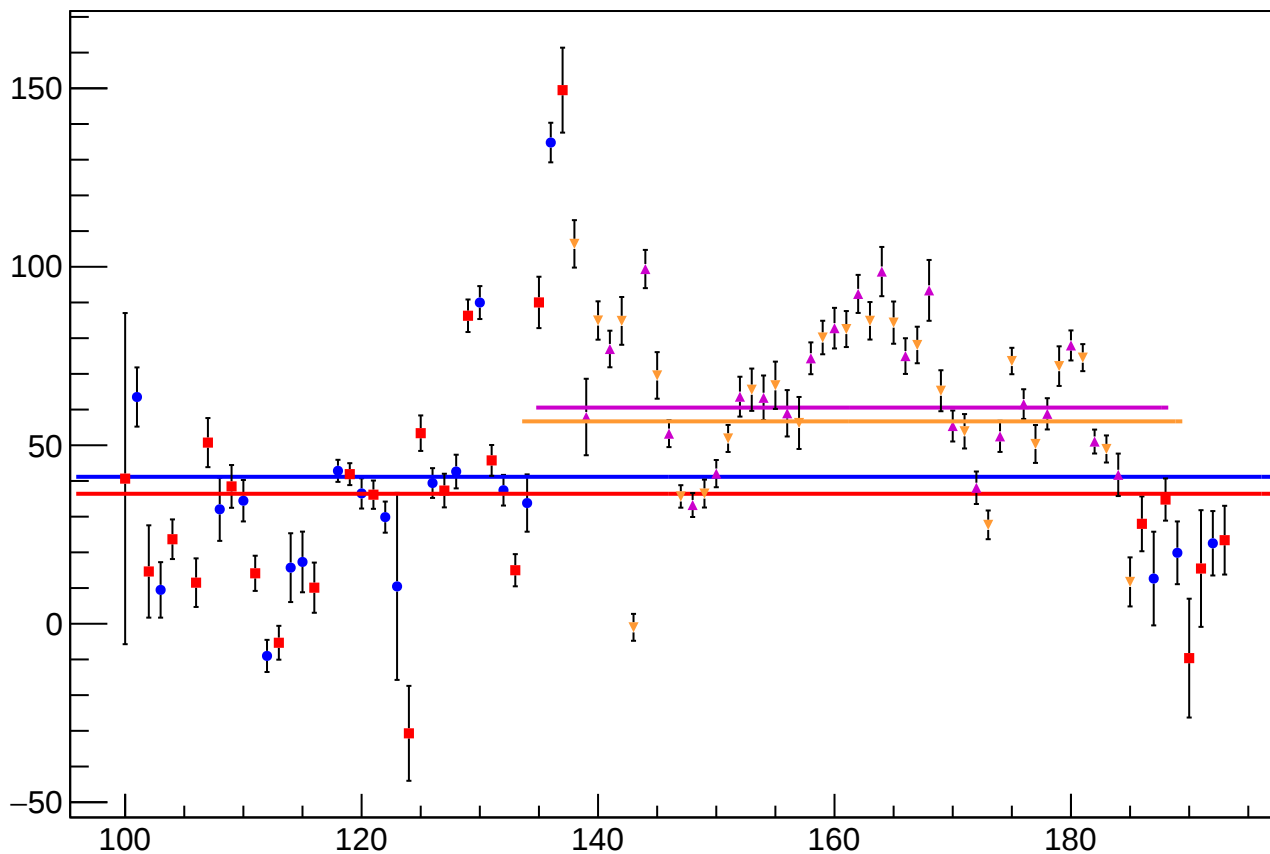
Right: 252.069 $\pm$ 1.042 χ^2 /NDF: 6445.8/43

In: 199.285 $\pm$ 0.926 χ^2 /NDF:6832.5/42

Out: 201.052 $\pm$ 0.837 χ^2 /NDF:11103.7/48

All: 200.257 $\pm$ 0.621 χ^2 /NDF: 17938.2/91

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.164 $\pm$ 1.245 χ^2 /NDF: 588.7/19

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 36.411 $\pm$ 1.181 χ^2 /NDF: 483.4/23

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

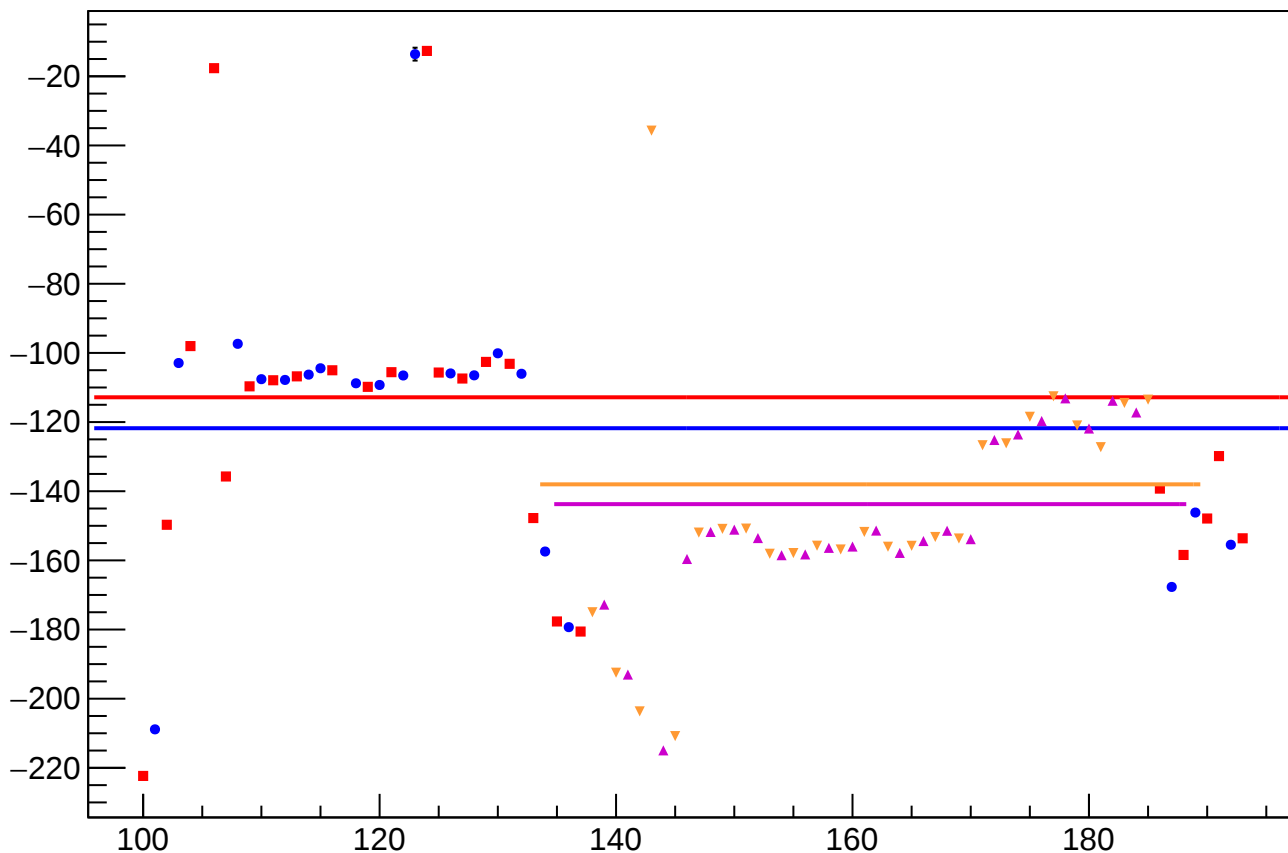
Right: 38.660 $\pm$ 0.857 χ^2 /NDF: 1079.8/43

In: 53.046 $\pm$ 0.775 χ^2 /NDF: 1072.8/42

Out: 48.706 $\pm$ 0.741 χ^2 /NDF: 1352.7/48

All: 50.778 $\pm$ 0.536 χ^2 /NDF: 2441.9/91

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -121.776 ± 0.074 $\chi^2/\text{NDF}: 166489.1/19$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -112.834 ± 0.067 $\chi^2/\text{NDF}: 385117.7/23$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

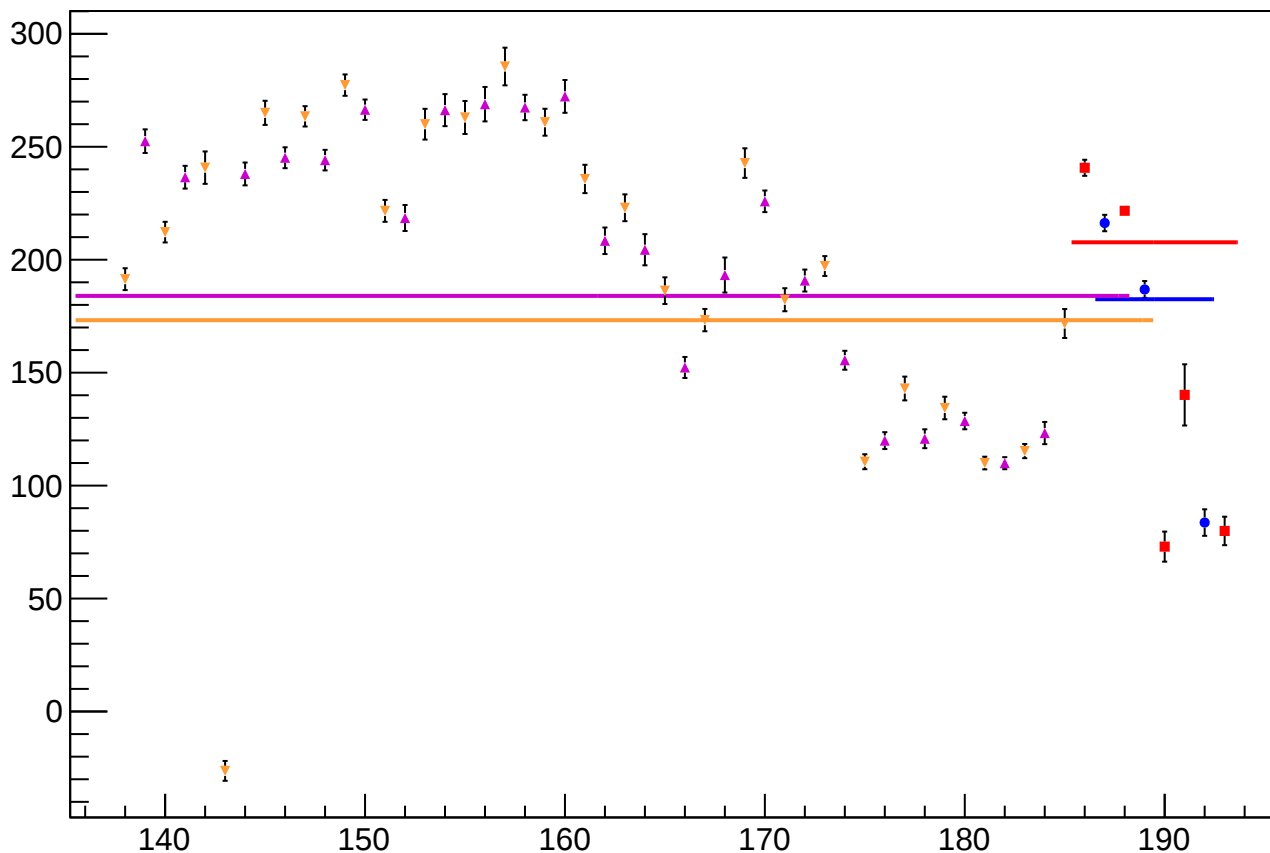
Right: -116.853 ± 0.050 $\chi^2/\text{NDF}: 559647.6/43$

In: -137.595 ± 0.039 $\chi^2/\text{NDF}: 488341.9/42$

Out: -130.128 ± 0.037 $\chi^2/\text{NDF}: 1048291.5/48$

All: -133.694 ± 0.027 $\chi^2/\text{NDF}: 1555662.4/91$

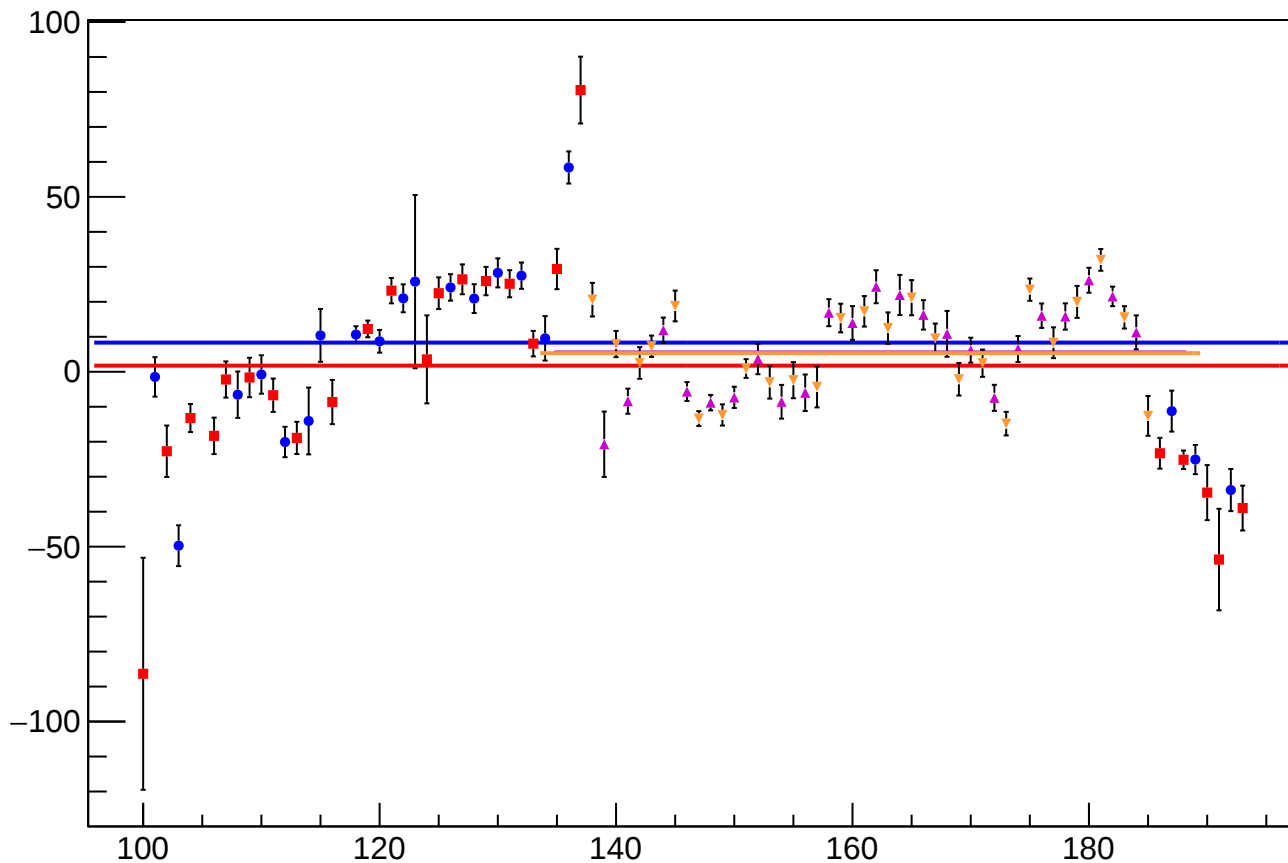
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 182.510 $\pm$ 2.376 χ^2 /NDF: 371.5/2
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24
 Right Out: 207.708 $\pm$ 1.543 χ^2 /NDF: 987.2/4
 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: 200.234 $\pm$ 1.294 χ^2 /NDF: 1437.8/7
 In: 183.766 $\pm$ 0.915 χ^2 /NDF:3985.5/25
 Out: 182.932 $\pm$ 0.819 χ^2 /NDF:7192.0/29
 All: 183.303 $\pm$ 0.610 χ^2 /NDF: 11178.0/55

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.335 ± 1.011 $\chi^2/\text{NDF}: 488.8/19$

Left Out: 5.321 ± 0.747 $\chi^2/\text{NDF}: 345.5/24$

Right Out: 1.749 ± 0.933 $\chi^2/\text{NDF}: 561.0/23$

Left In: 5.527 ± 0.781 $\chi^2/\text{NDF}: 256.3/22$

Left: 5.420 ± 0.540 $\chi^2/\text{NDF}: 601.9/47$

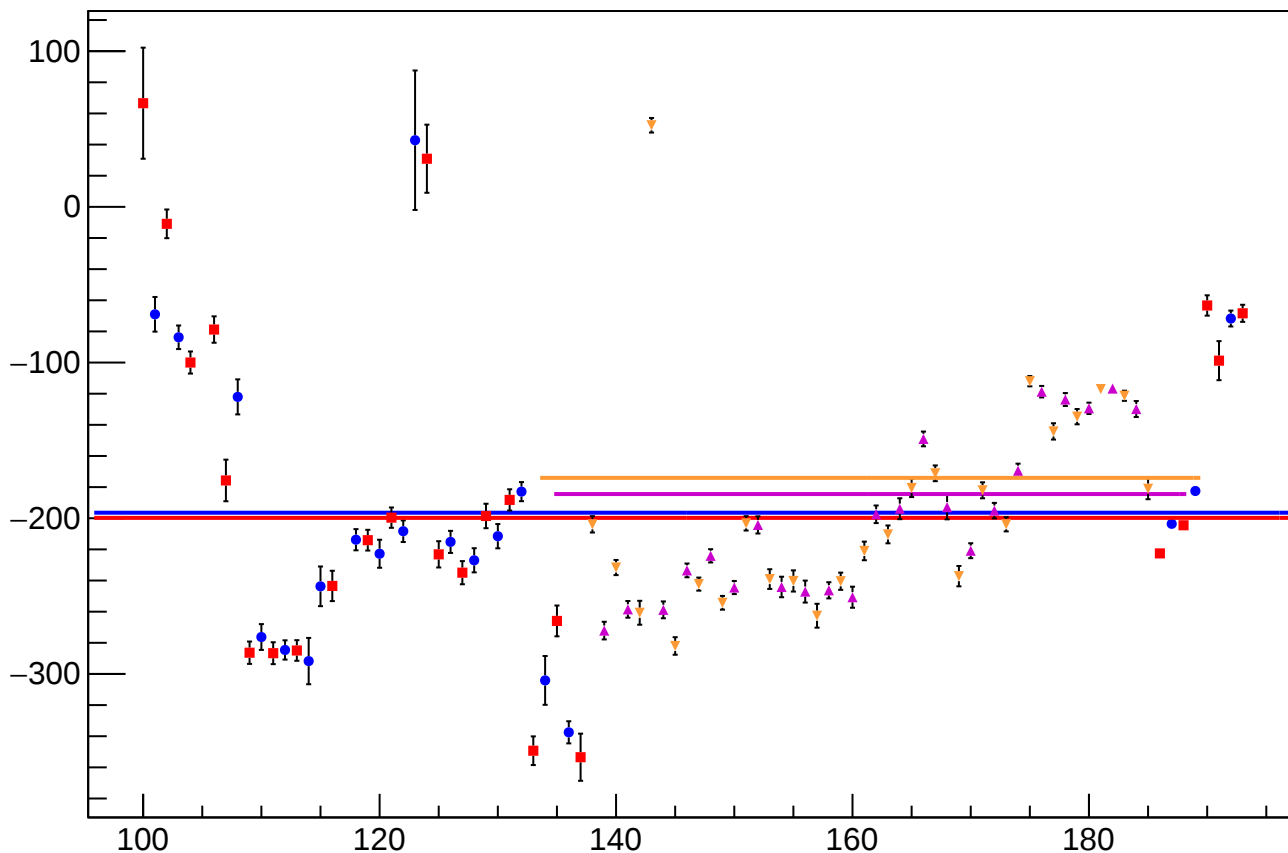
Right: 4.777 ± 0.686 $\chi^2/\text{NDF}: 1072.7/43$

In: 6.576 ± 0.618 $\chi^2/\text{NDF}: 749.9/42$

Out: 3.925 ± 0.583 $\chi^2/\text{NDF}: 915.4/48$

All: 5.174 ± 0.424 $\chi^2/\text{NDF}: 1675.1/91$

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -196.444 ± 1.417 χ^2/NDF : 1888.8/19

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -199.751 ± 1.053 χ^2/NDF : 3073.2/23

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

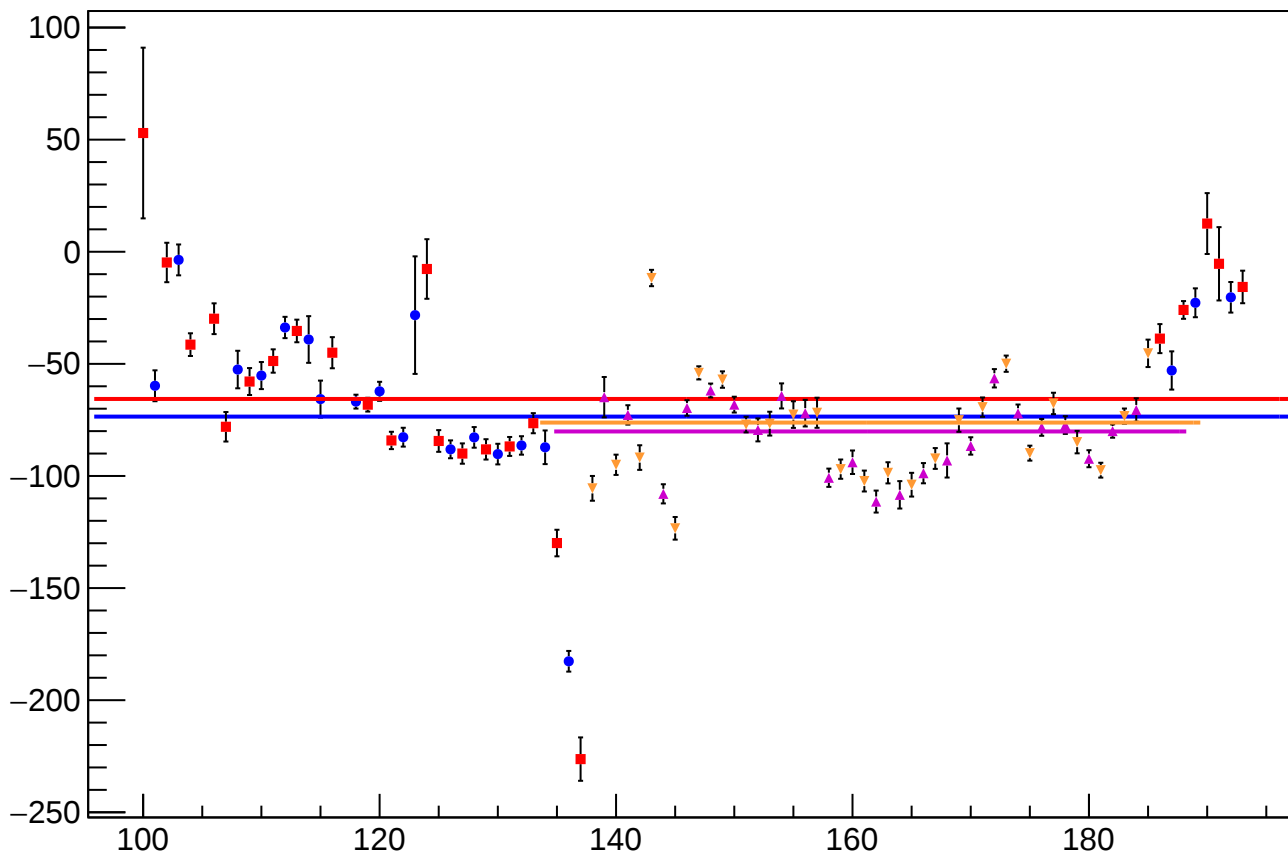
Right: -198.574 ± 0.845 χ^2/NDF : 4965.5/43

In: -188.390 ± 0.812 χ^2/NDF : 4988.5/42

Out: -185.858 ± 0.714 χ^2/NDF : 8838.0/48

All: -186.962 ± 0.536 χ^2/NDF : 13831.9/91

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.521 ± 1.186 χ^2/NDF : 956.0/19

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -65.651 ± 1.118 χ^2/NDF : 915.7/23

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

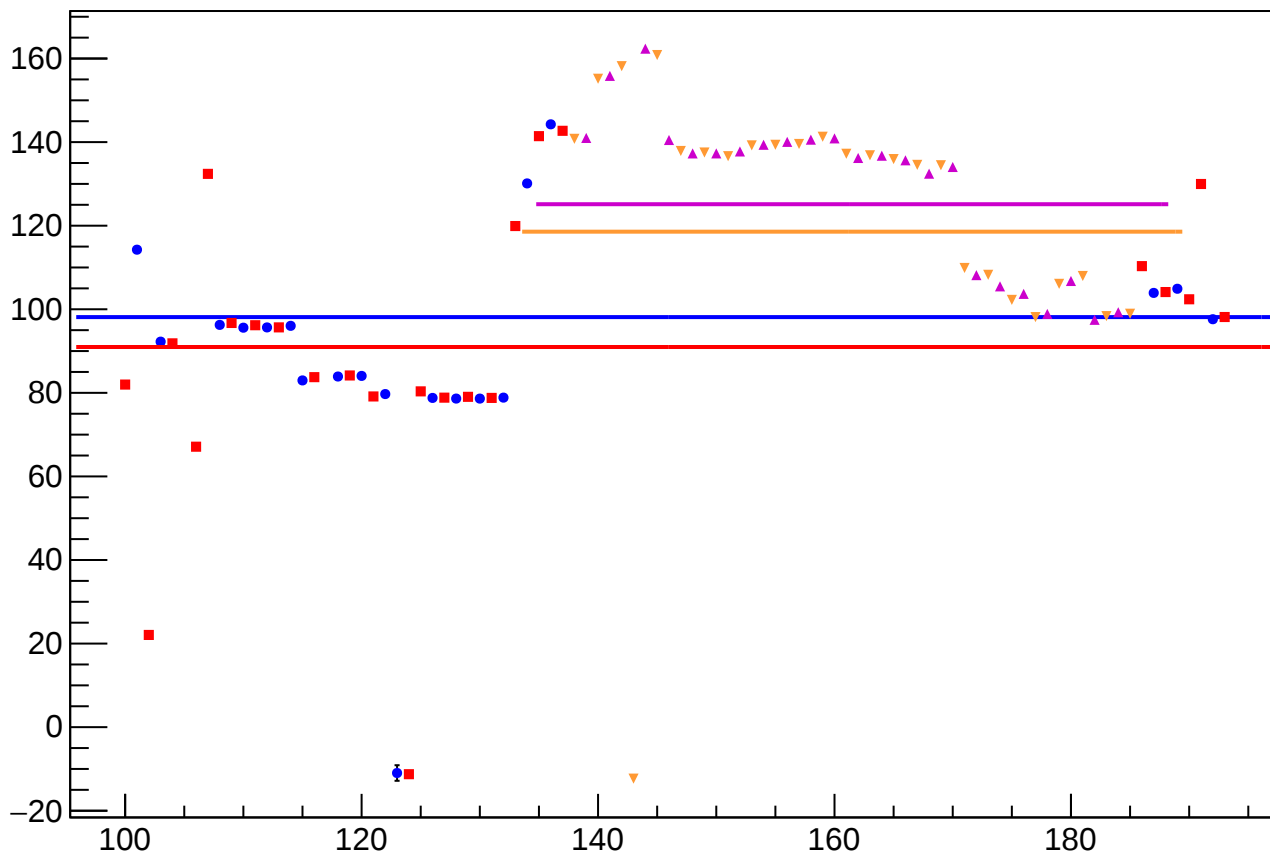
Right: -69.351 ± 0.813 χ^2/NDF : 1895.1/43

In: -77.765 ± 0.711 χ^2/NDF : 1259.3/42

Out: -72.281 ± 0.680 χ^2/NDF : 1772.6/48

All: -74.900 ± 0.492 χ^2/NDF : 3063.0/91

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.126+/-0.067 χ^2/NDF : 94589.1/19

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 90.970+/-0.061 χ^2/NDF : 238953.9/23

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

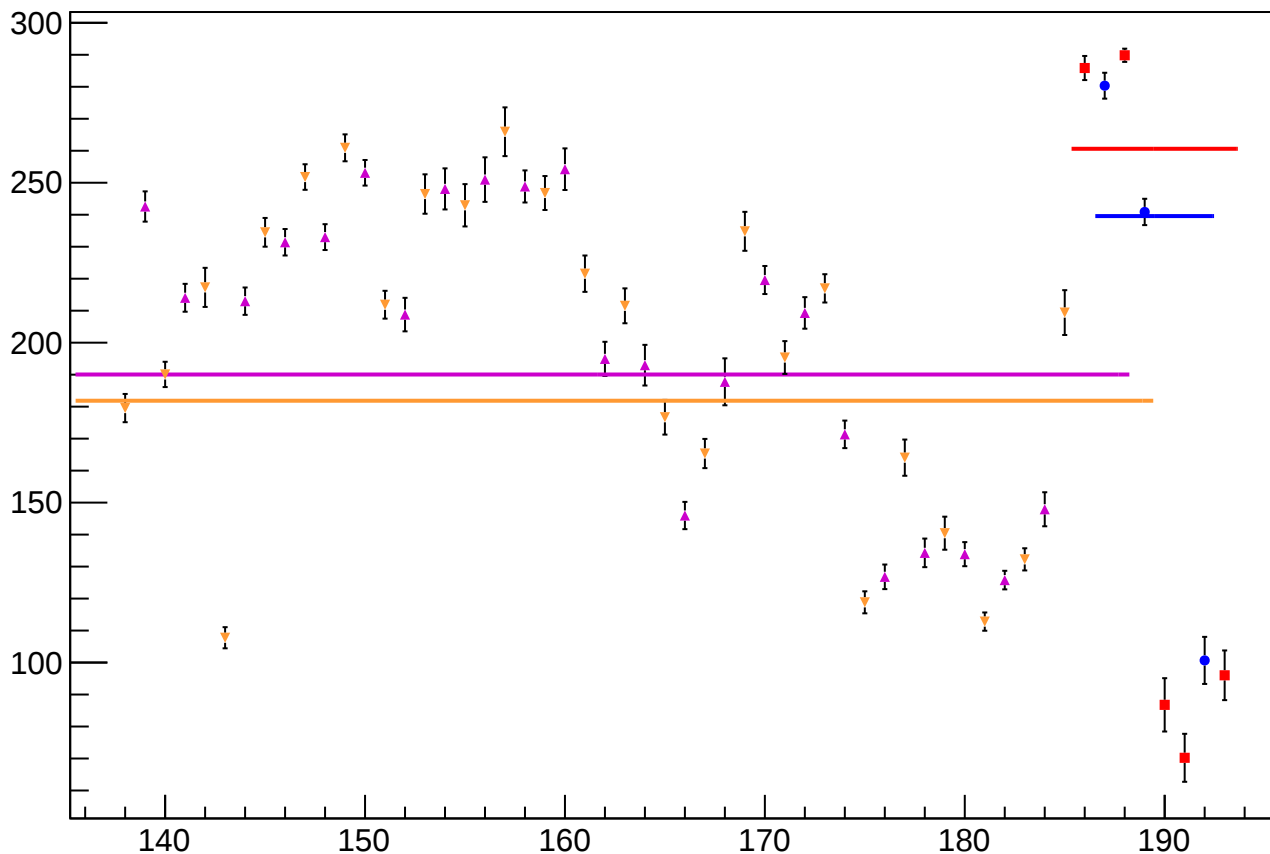
Right: 94.166+/-0.045 χ^2/NDF : 339775.6/43

In: 117.775+/-0.035 χ^2/NDF : 432232.5/42

Out: 110.048+/-0.034 χ^2/NDF : 1111076.7/48

All: 113.738+/-0.024 χ^2/NDF : 1568473.5/91

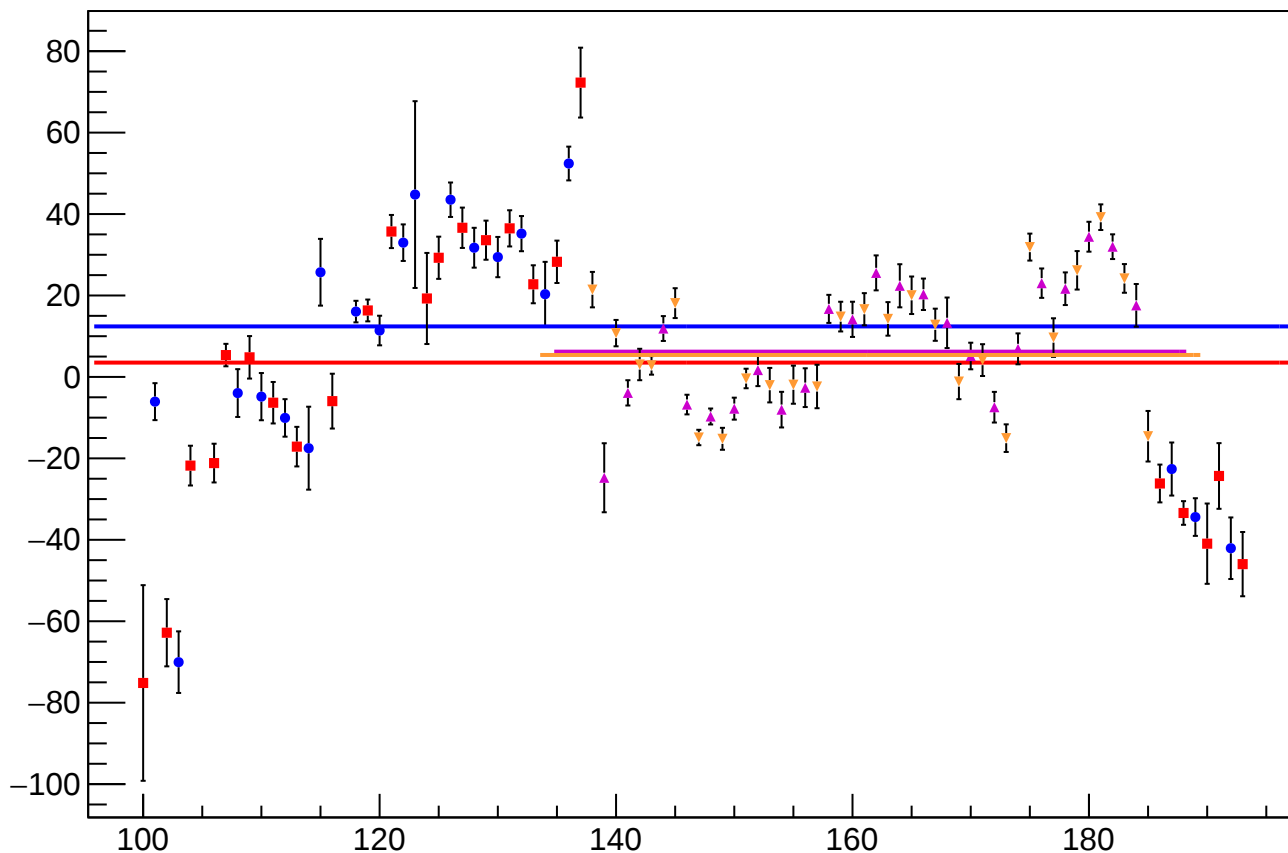
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 239.576 ± 2.686 $\chi^2/\text{NDF}: 457.8/2$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 260.614 ± 1.683 $\chi^2/\text{NDF}: 1773.1/4$
 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: 254.683 ± 1.426 $\chi^2/\text{NDF}: 2275.0/7$
 In: 195.584 ± 0.898 $\chi^2/\text{NDF}: 3198.2/25$
 Out: 199.770 ± 0.803 $\chi^2/\text{NDF}: 6768.4/29$
 All: 197.911 ± 0.598 $\chi^2/\text{NDF}: 9978.7/55$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.404 $\pm$ 1.104 χ^2/NDF : 598.8/19

Left Out: 5.394 $\pm$ 0.688 χ^2/NDF :526.5/24

Right Out: 3.519 $\pm$ 0.973 χ^2/NDF : 782.2/23

Left In: 6.206 $\pm$ 0.732 χ^2/NDF :407.5/22

Left: 5.775 $\pm$ 0.501 χ^2/NDF : 934.7/47

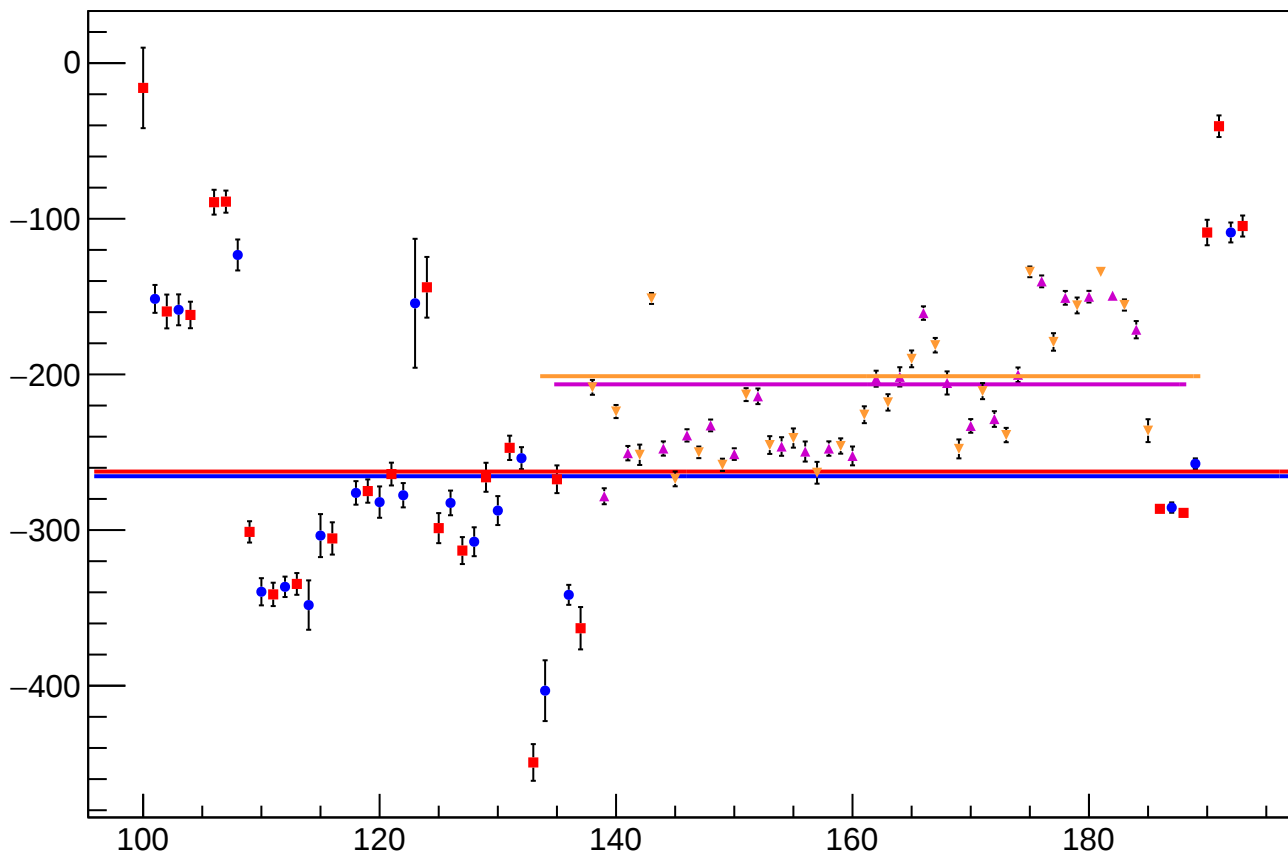
Right: 7.403 $\pm$ 0.730 χ^2/NDF : 1417.5/43

In: 8.098 $\pm$ 0.610 χ^2/NDF :1028.2/42

Out: 4.768 $\pm$ 0.562 χ^2/NDF :1311.2/48

All: 6.297 $\pm$ 0.413 χ^2/NDF : 2355.6/91

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -265.417 $\pm$ 1.563 χ^2 /NDF: 1586.2/19

Left Out: -201.144 $\pm$ 0.918 χ^2 /NDF:2488.8/24

Right Out: -262.406 $\pm$ 1.136 χ^2 /NDF: 4289.3/23

Left In: -206.379 $\pm$ 0.950 χ^2 /NDF:2111.6/22

Left: -203.672 $\pm$ 0.660 χ^2 /NDF: 4616.1/47

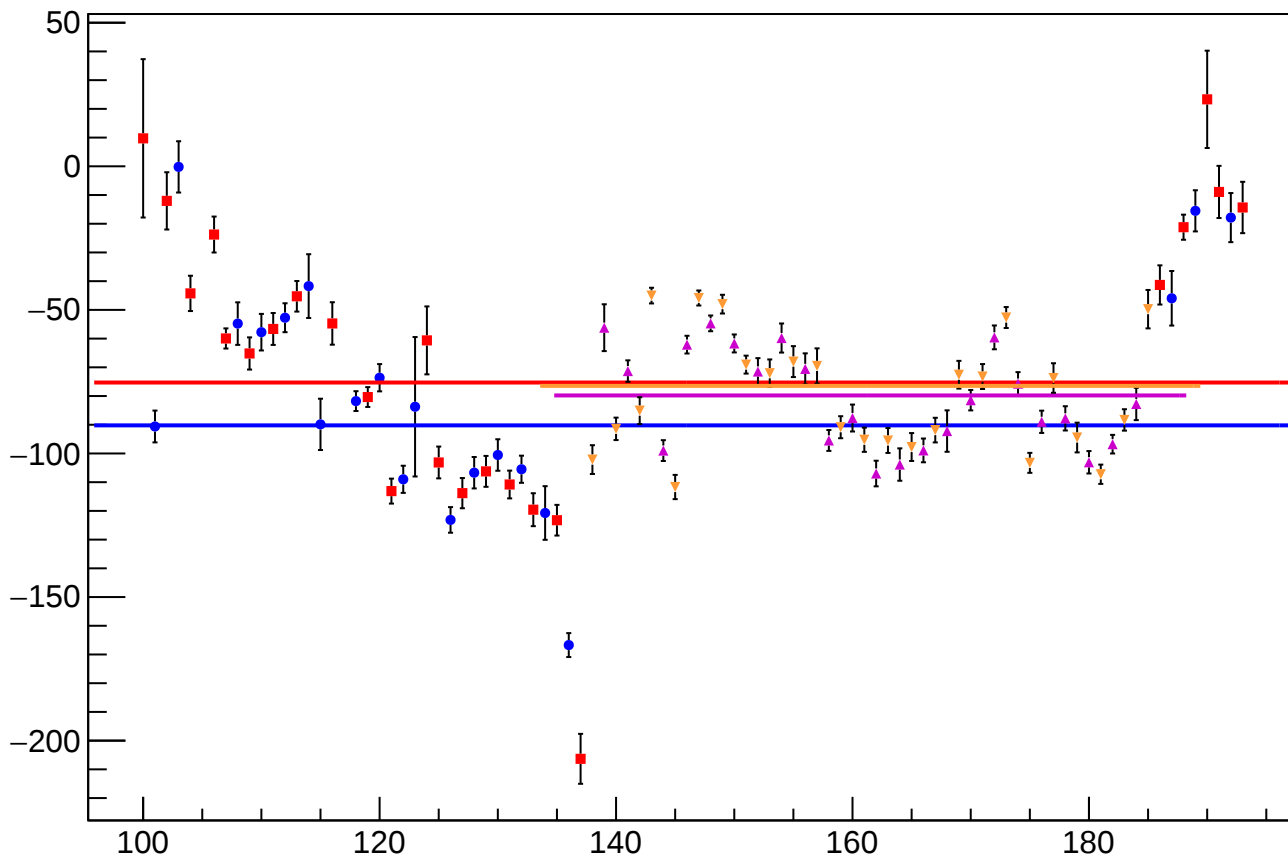
Right: -263.446 $\pm$ 0.919 χ^2 /NDF: 5878.0/43

In: -222.293 $\pm$ 0.812 χ^2 /NDF:4739.7/42

Out: -225.343 $\pm$ 0.714 χ^2 /NDF:8537.9/48

All: -224.012 $\pm$ 0.536 χ^2 /NDF: 13285.6/91

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -90.217 ± 1.293 $\chi^2/\text{NDF}: 886.8/19$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -75.295 ± 1.168 $\chi^2/\text{NDF}: 1140.9/23$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

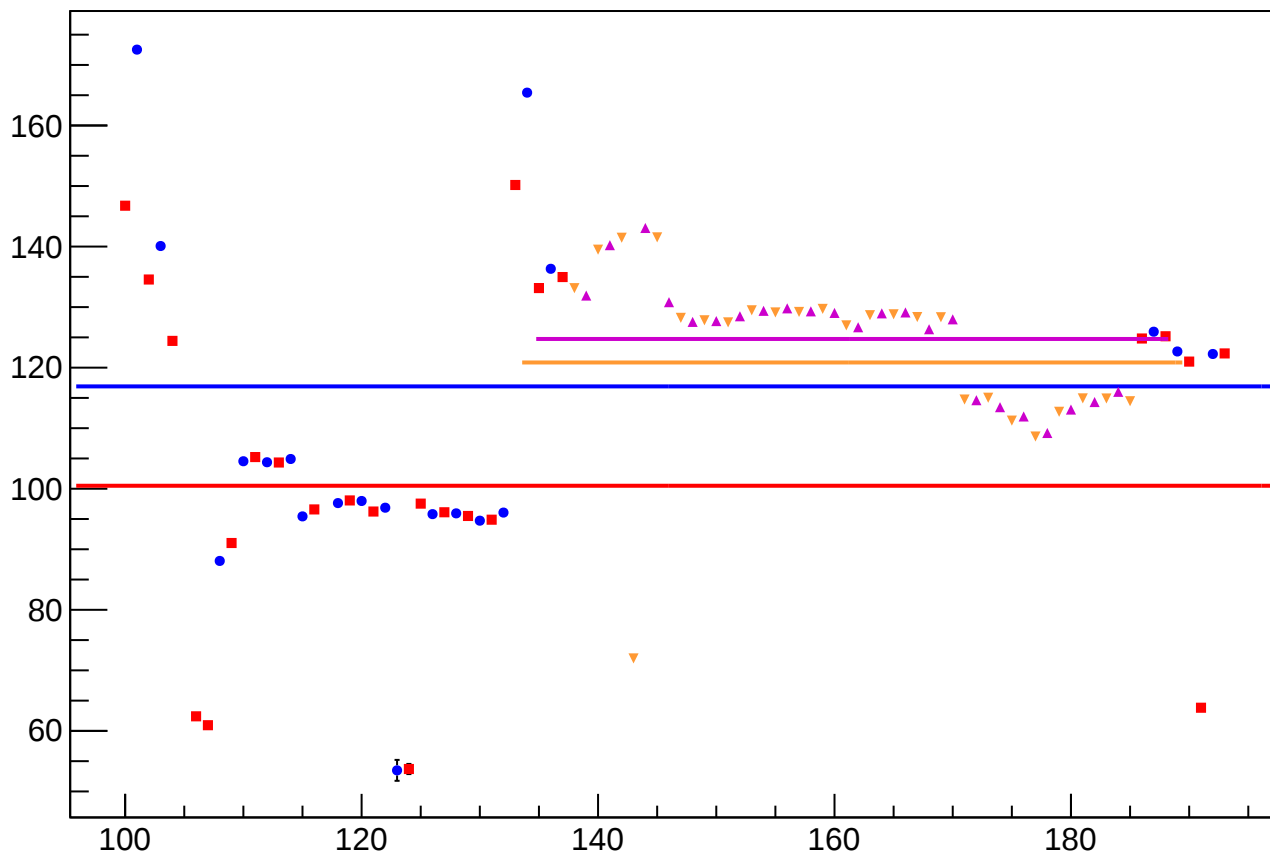
Right: -82.000 ± 0.867 $\chi^2/\text{NDF}: 2101.0/43$

In: -82.885 ± 0.704 $\chi^2/\text{NDF}: 1344.8/42$

Out: -76.090 ± 0.658 $\chi^2/\text{NDF}: 1922.9/48$

All: -79.258 ± 0.481 $\chi^2/\text{NDF}: 3317.4/91$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 116.904 $\pm$ 0.073 χ^2 /NDF: 106739.1/19

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF: 182759.1/24

Right Out: 100.493 $\pm$ 0.061 χ^2 /NDF: 216517.7/23

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

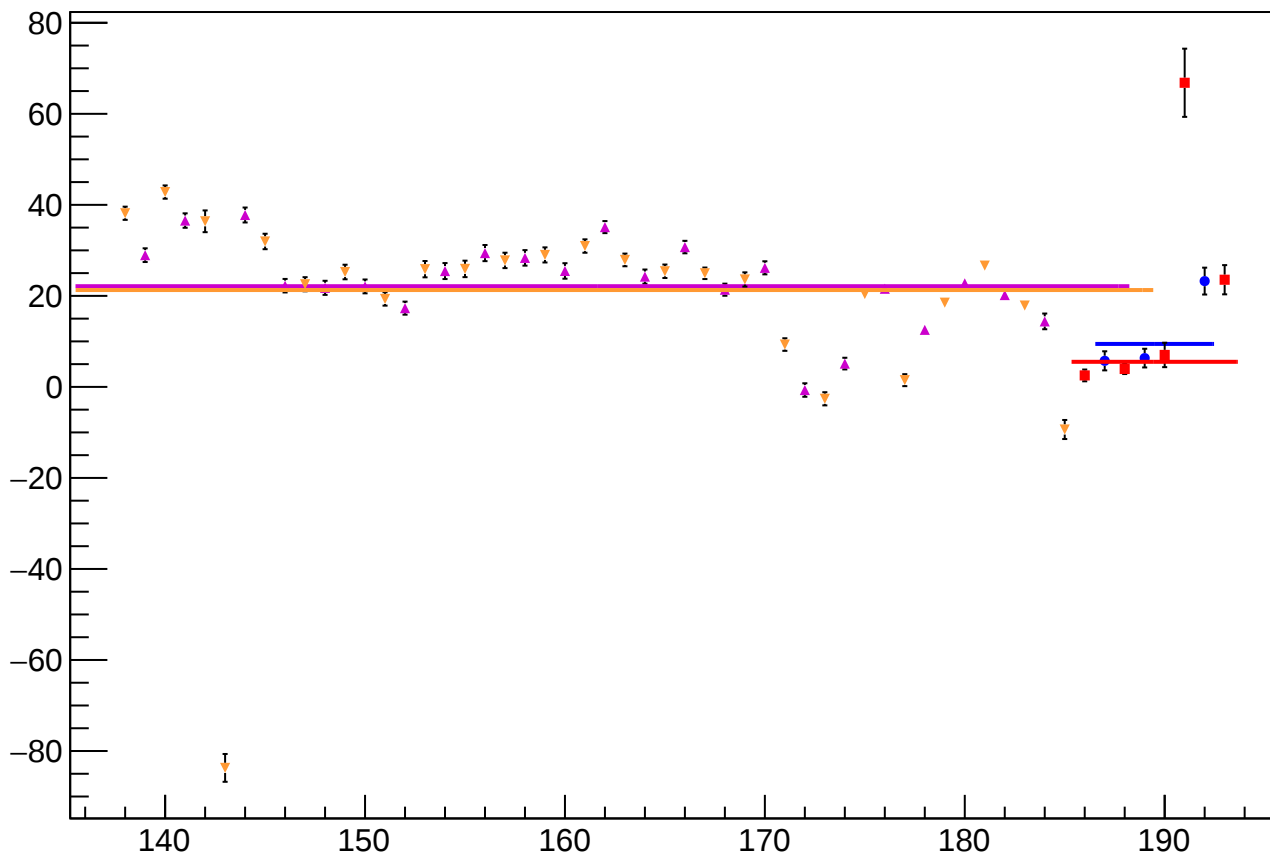
Right: 107.250 $\pm$ 0.047 χ^2 /NDF: 352933.4/43

In: 122.984 $\pm$ 0.035 χ^2 /NDF: 166958.0/42

Out: 115.168 $\pm$ 0.032 χ^2 /NDF: 479242.7/48

All: 118.811 $\pm$ 0.024 χ^2 /NDF: 673480.3/91

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.442 ± 1.314 $\chi^2/\text{NDF}: 27.3/2$

Left Out: 21.282 ± 0.282 $\chi^2/\text{NDF}: 2600.5/24$

Right Out: 5.512 ± 0.777 $\chi^2/\text{NDF}: 106.2/4$

Left In: 22.127 ± 0.285 $\chi^2/\text{NDF}: 900.2/22$

Left: 21.700 ± 0.201 $\chi^2/\text{NDF}: 3505.2/47$

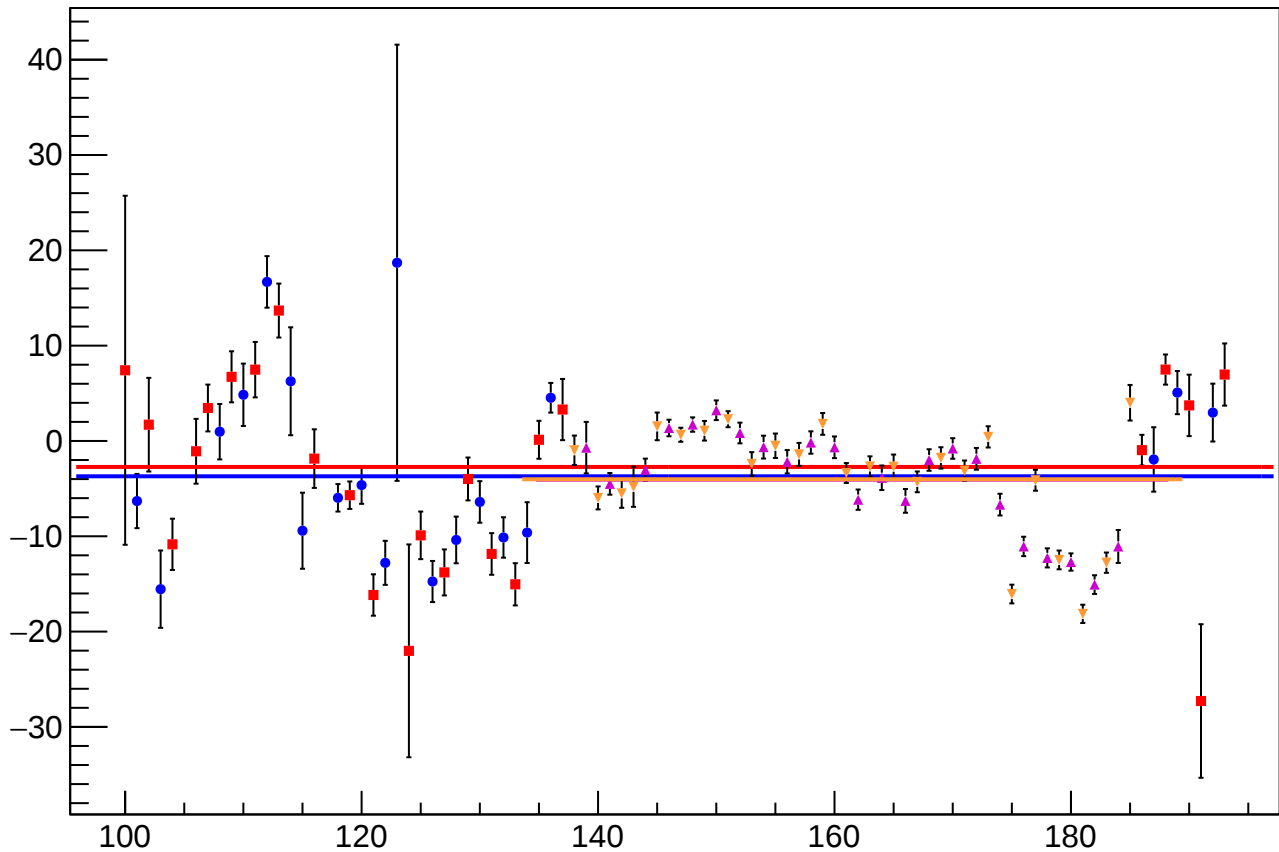
Right: 6.531 ± 0.669 $\chi^2/\text{NDF}: 140.1/7$

In: 21.554 ± 0.279 $\chi^2/\text{NDF}: 1016.6/25$

Out: 19.441 ± 0.265 $\chi^2/\text{NDF}: 3070.5/29$

All: 20.445 ± 0.192 $\chi^2/\text{NDF}: 4117.2/55$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.707 ± 0.553 $\chi^2/\text{NDF}: 195.9/19$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -2.727 ± 0.506 $\chi^2/\text{NDF}: 269.5/23$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

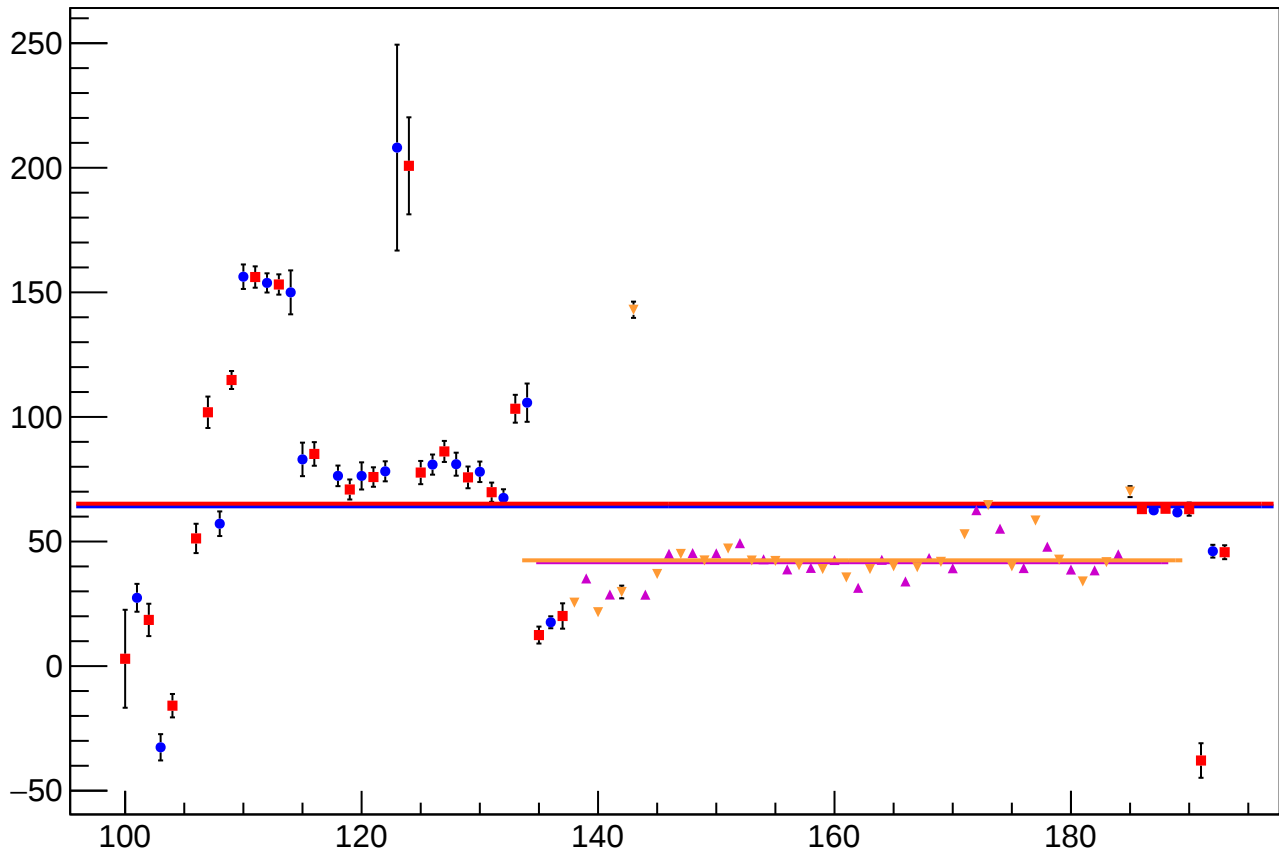
Right: -3.173 ± 0.373 $\chi^2/\text{NDF}: 467.0/43$

In: -4.007 ± 0.211 $\chi^2/\text{NDF}: 773.5/42$

Out: -3.811 ± 0.204 $\chi^2/\text{NDF}: 1009.1/48$

All: -3.906 ± 0.147 $\chi^2/\text{NDF}: 1783.0/91$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 64.128 ± 0.776 χ^2/NDF : 1915.5/19

Left Out: 42.452 ± 0.282 χ^2/NDF : 2016.0/24

Right Out: 65.182 ± 0.548 χ^2/NDF : 2264.8/23

Left In: 41.695 ± 0.284 χ^2/NDF : 630.2/22

Left: 42.077 ± 0.200 χ^2/NDF : 2649.8/47

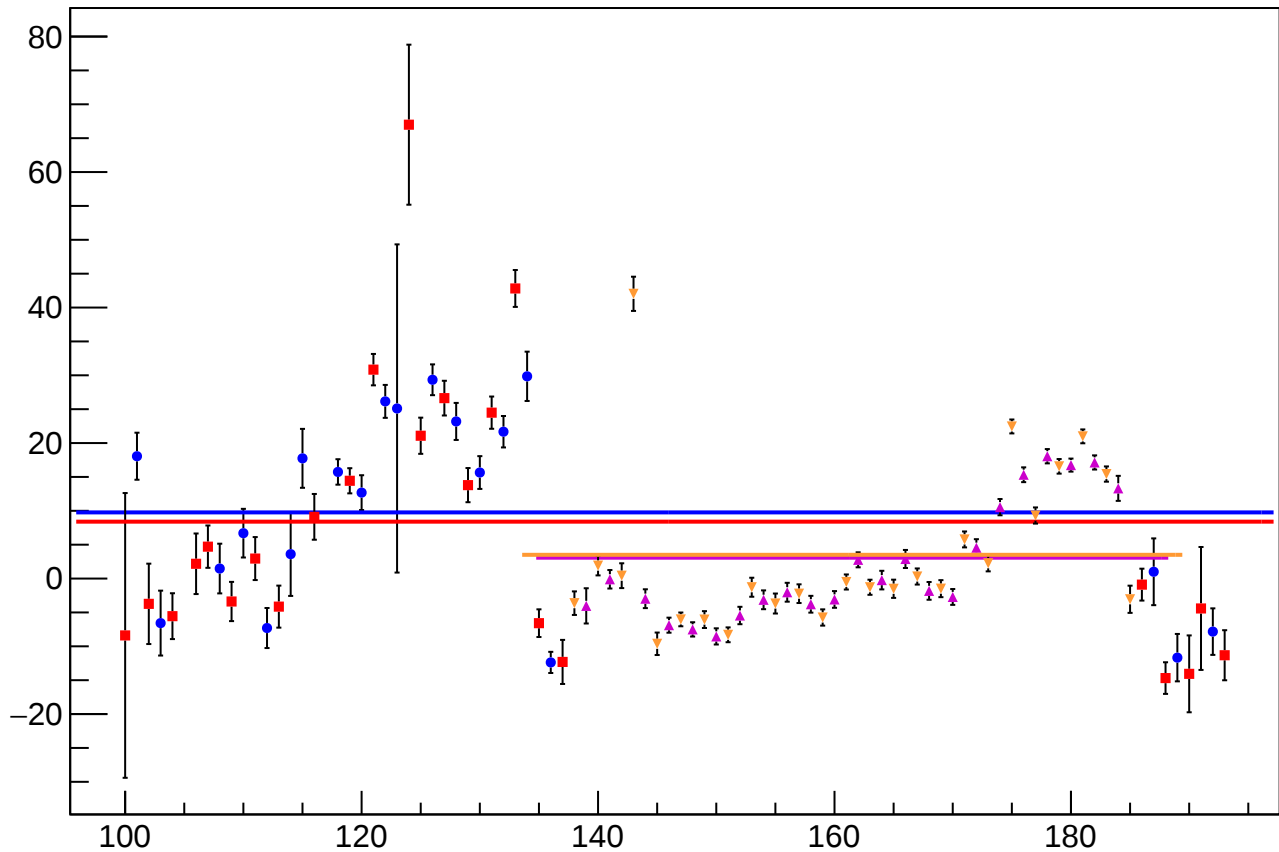
Right: 64.832 ± 0.448 χ^2/NDF : 4181.5/43

In: 44.345 ± 0.267 χ^2/NDF : 3282.1/42

Out: 47.207 ± 0.251 χ^2/NDF : 5640.7/48

All: 45.865 ± 0.183 χ^2/NDF : 8983.9/91

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.766 ± 0.638 χ^2/NDF : 547.1/19

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 8.399 ± 0.604 χ^2/NDF : 727.2/23

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

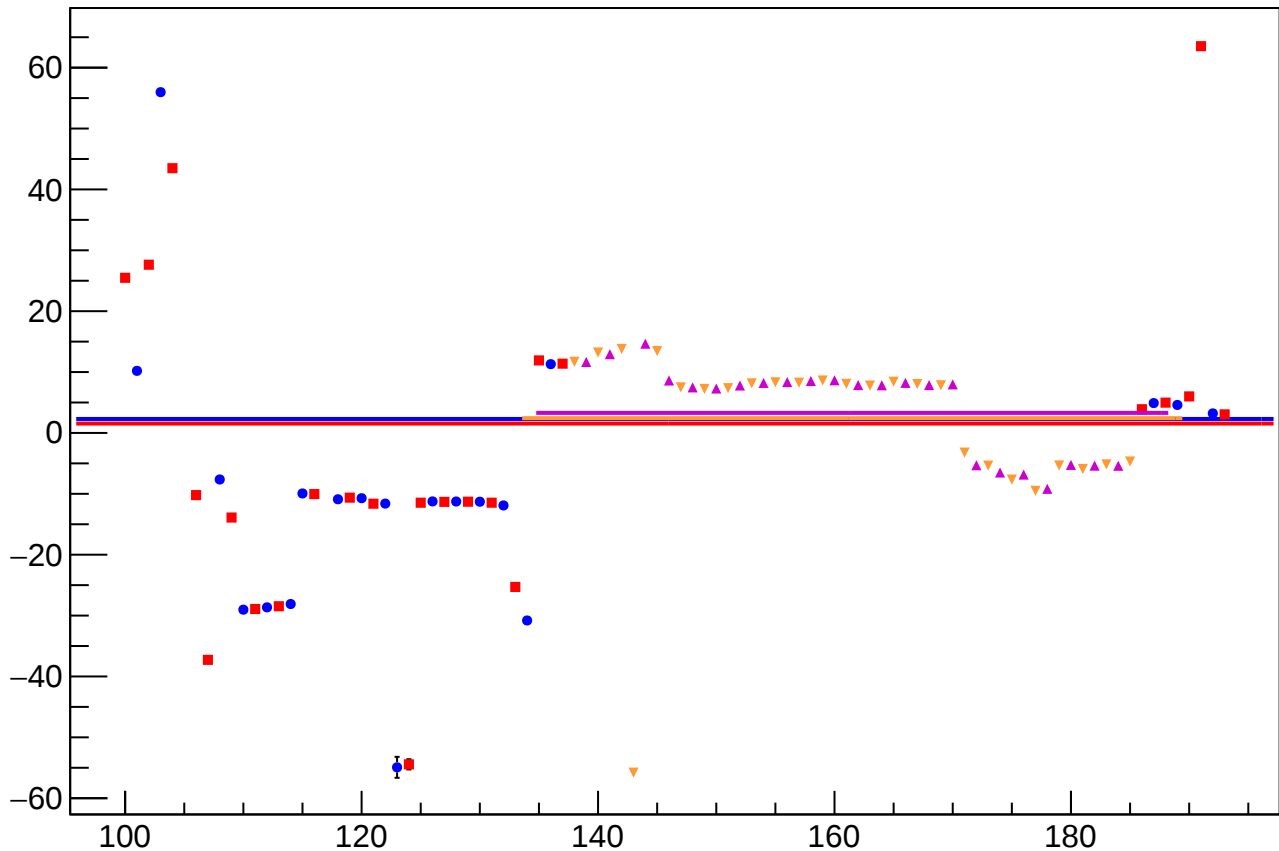
Right: 9.045 ± 0.439 χ^2/NDF : 1276.7/43

In: 4.014 ± 0.238 χ^2/NDF : 1907.2/42

Out: 4.232 ± 0.233 χ^2/NDF : 2474.4/48

All: 4.126 ± 0.167 χ^2/NDF : 4382.0/91

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.296 $\pm$ 0.034 χ^2 /NDF: 358327.1/19

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 1.543 $\pm$ 0.032 χ^2 /NDF: 428491.1/23

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

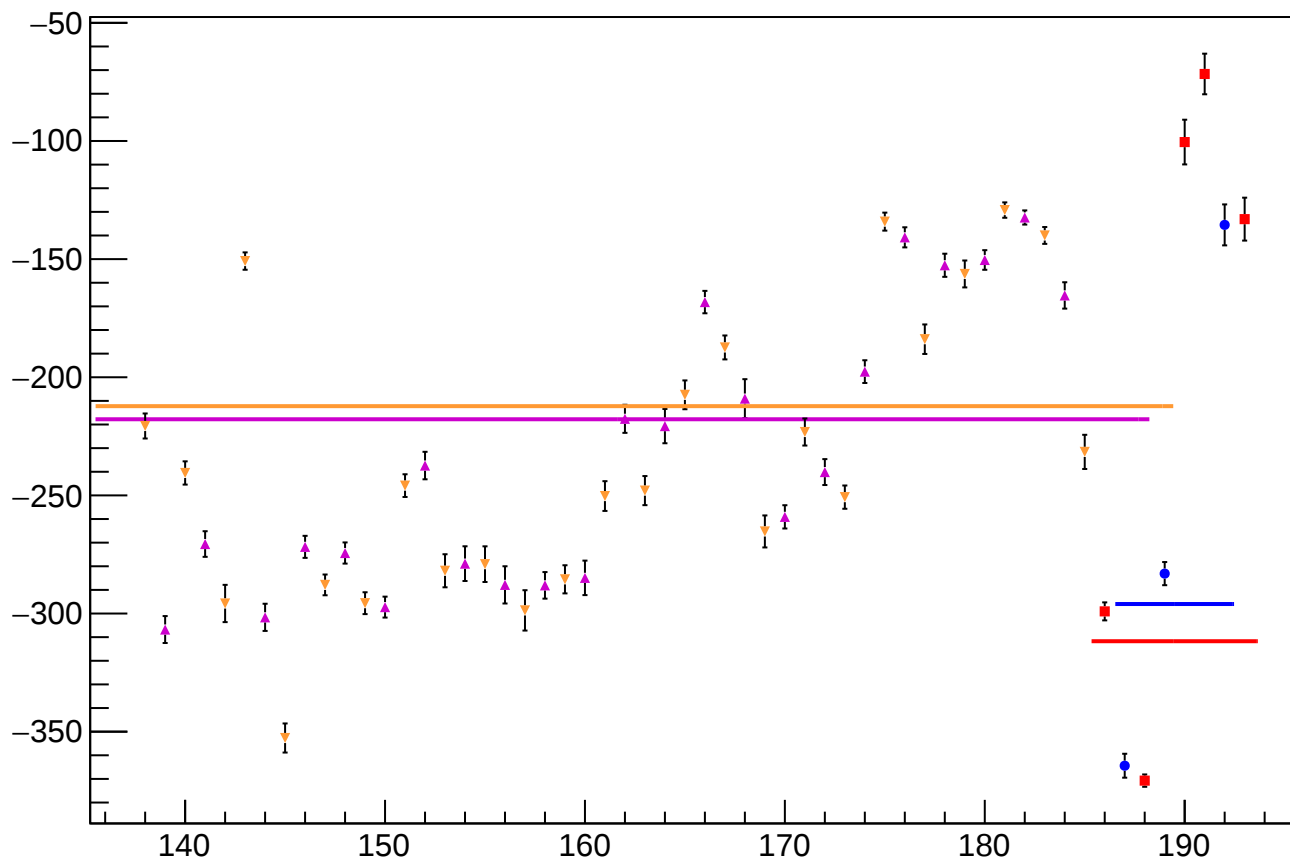
Right: 1.899 $\pm$ 0.023 χ^2 /NDF: 787076.9/43

In: 3.188 $\pm$ 0.011 χ^2 /NDF: 763418.4/42

Out: 2.325 $\pm$ 0.011 χ^2 /NDF: 1045537.4/48

All: 2.751 $\pm$ 0.008 χ^2 /NDF: 1812060.0/91

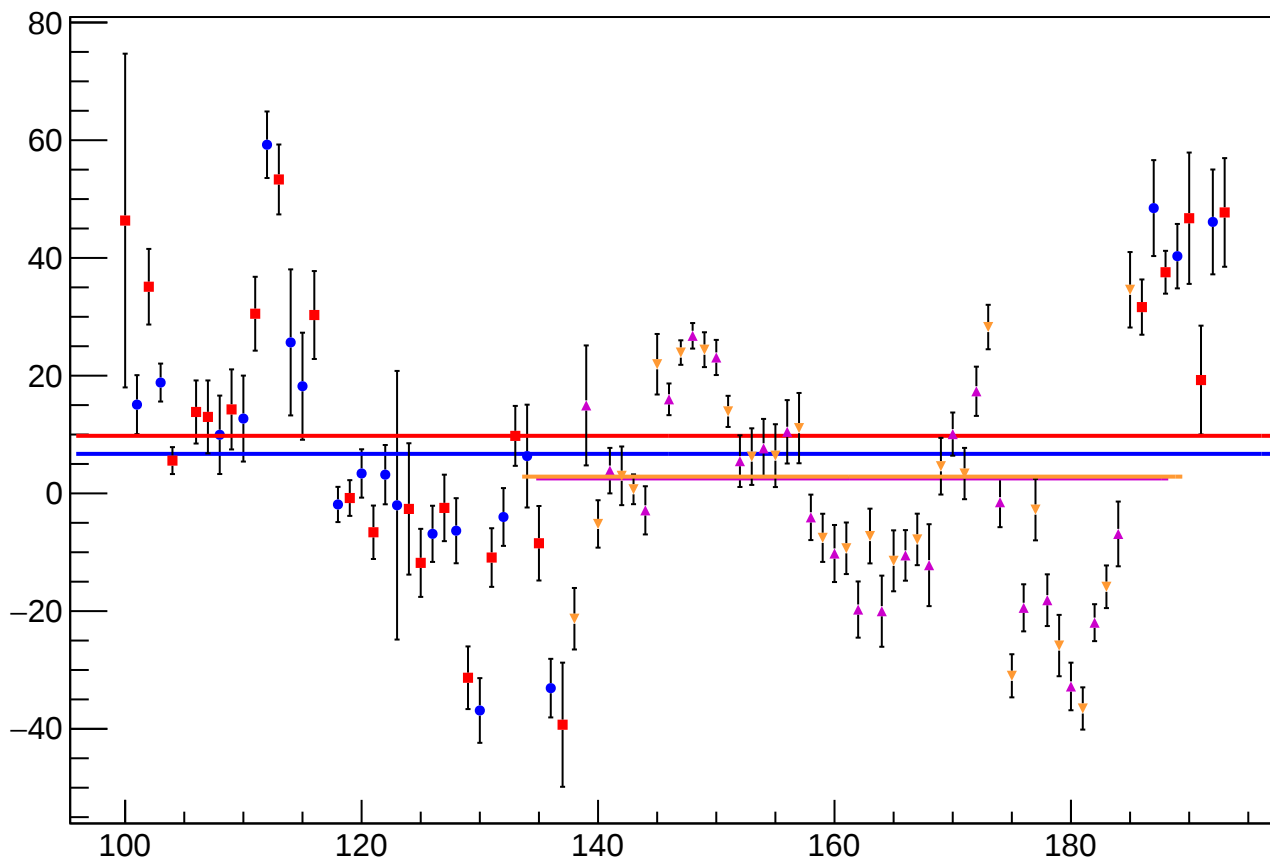
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -295.976 ± 3.262 $\chi^2/\text{NDF}: 532.3/2$
 Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$
 Right Out: -311.721 ± 1.991 $\chi^2/\text{NDF}: 2187.0/4$
 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: -307.447 ± 1.699 $\chi^2/\text{NDF}: 2736.3/7$
 In: -225.335 ± 1.014 $\chi^2/\text{NDF}: 4500.5/25$
 Out: -233.217 ± 0.914 $\chi^2/\text{NDF}: 8032.7/29$
 All: -229.682 ± 0.679 $\chi^2/\text{NDF}: 12566.5/55$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.714 ± 1.191 $\chi^2/\text{NDF}: 346.4/19$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 9.781 ± 1.055 $\chi^2/\text{NDF}: 355.0/23$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

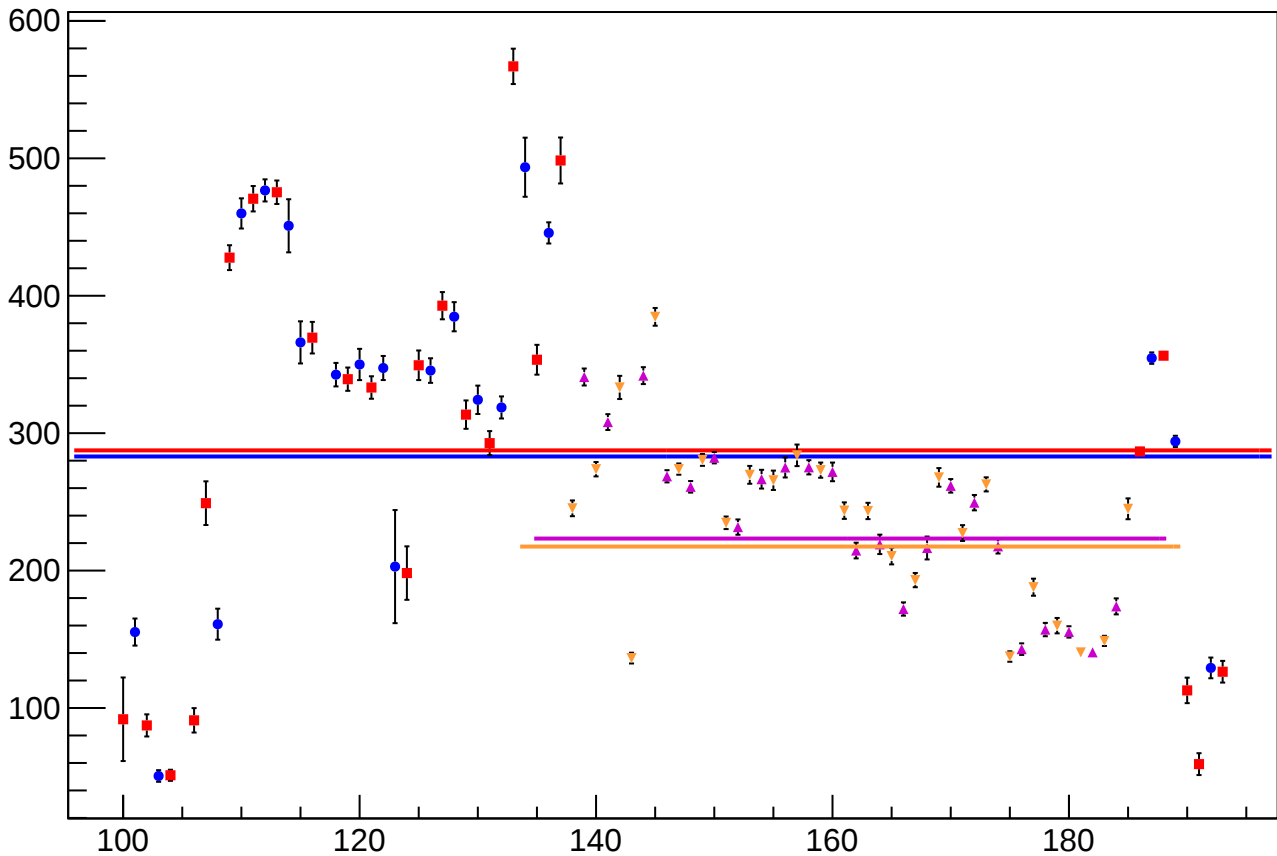
Right: 8.431 ± 0.790 $\chi^2/\text{NDF}: 705.2/43$

In: 3.889 ± 0.677 $\chi^2/\text{NDF}: 828.4/42$

Out: 5.275 ± 0.625 $\chi^2/\text{NDF}: 965.2/48$

All: 4.637 ± 0.459 $\chi^2/\text{NDF}: 1795.8/91$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 283.036+/-1.716 χ^2/NDF : 5832.7/19

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 287.477+/-1.282 χ^2/NDF : 9335.6/23

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

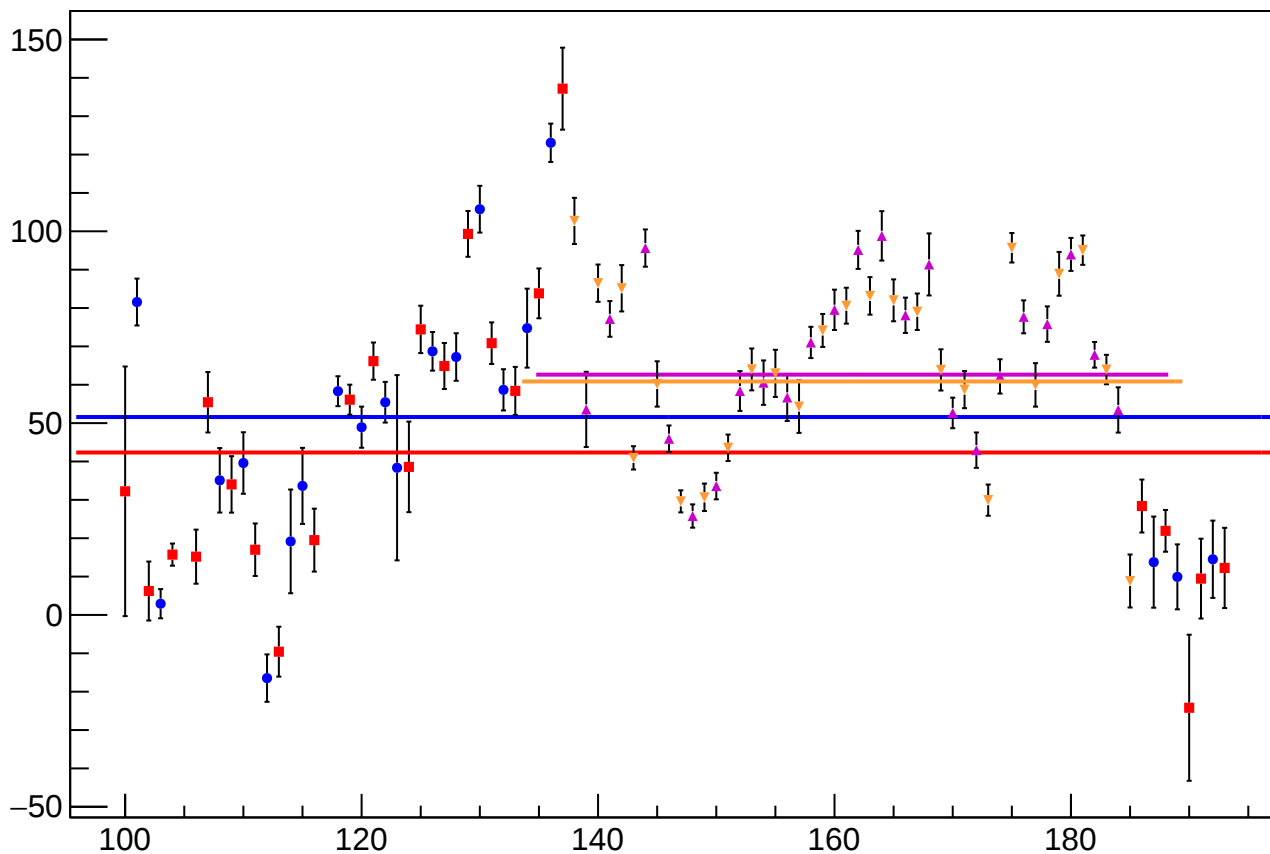
Right: 285.887+/-1.027 χ^2/NDF : 15172.7/43

In: 239.853+/-0.903 χ^2/NDF : 10087.0/42

Out: 245.030+/-0.804 χ^2/NDF : 14914.3/48

All: 242.741+/-0.600 χ^2/NDF : 25019.6/91

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 51.589 $\pm$ 1.397 χ^2 /NDF: 684.2/19

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 42.342 $\pm$ 1.273 χ^2 /NDF: 582.5/23

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

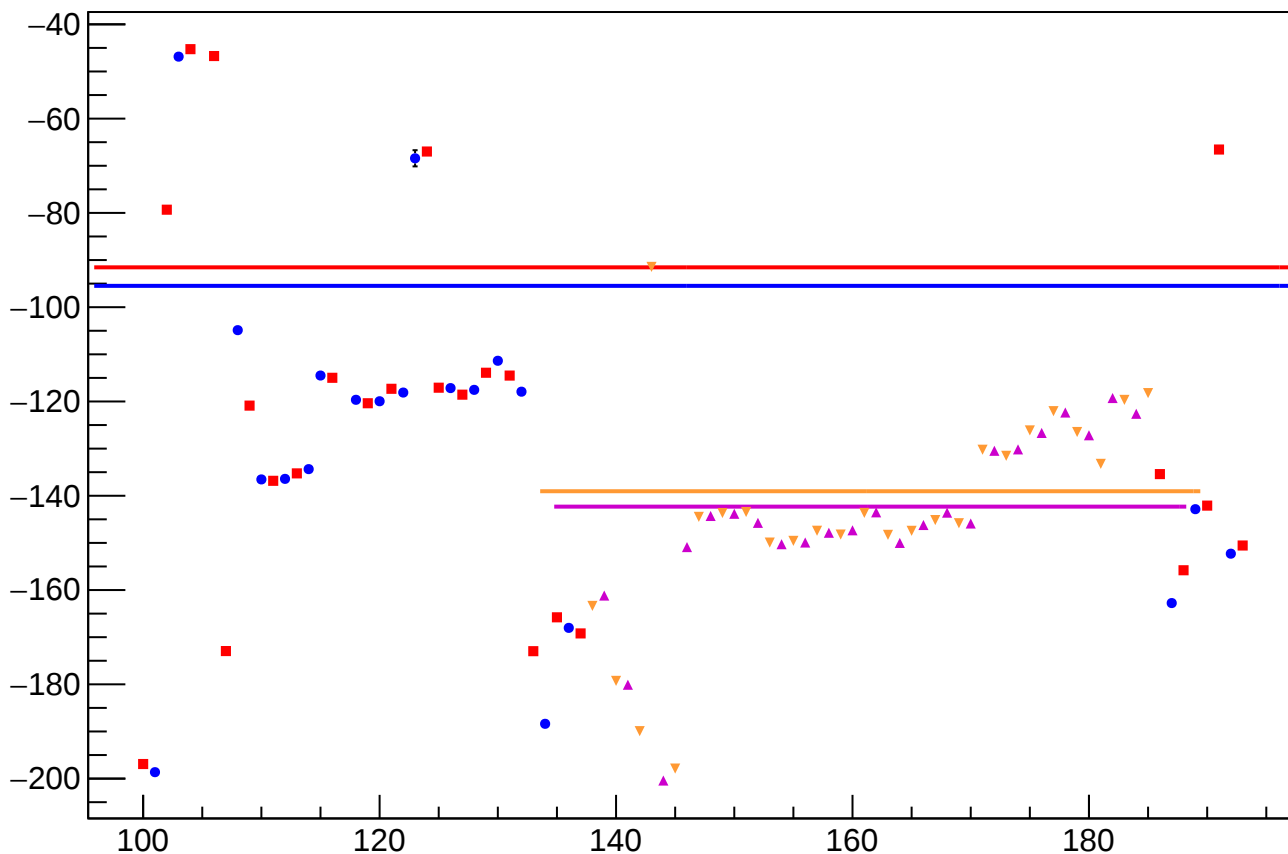
Right: 46.538 $\pm$ 0.941 χ^2 /NDF: 1290.7/43

In: 59.181 $\pm$ 0.781 χ^2 /NDF: 1242.6/42

Out: 54.720 $\pm$ 0.733 χ^2 /NDF: 1455.7/48

All: 56.808 $\pm$ 0.535 χ^2 /NDF: 2715.6/91

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -95.474 $\pm$ 0.065 χ^2/NDF : 593833.2/19

Left Out: -139.040 $\pm$ 0.043 χ^2/NDF : 258113.4/24

Right Out: -91.547 $\pm$ 0.060 χ^2/NDF : 609796.4/23

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

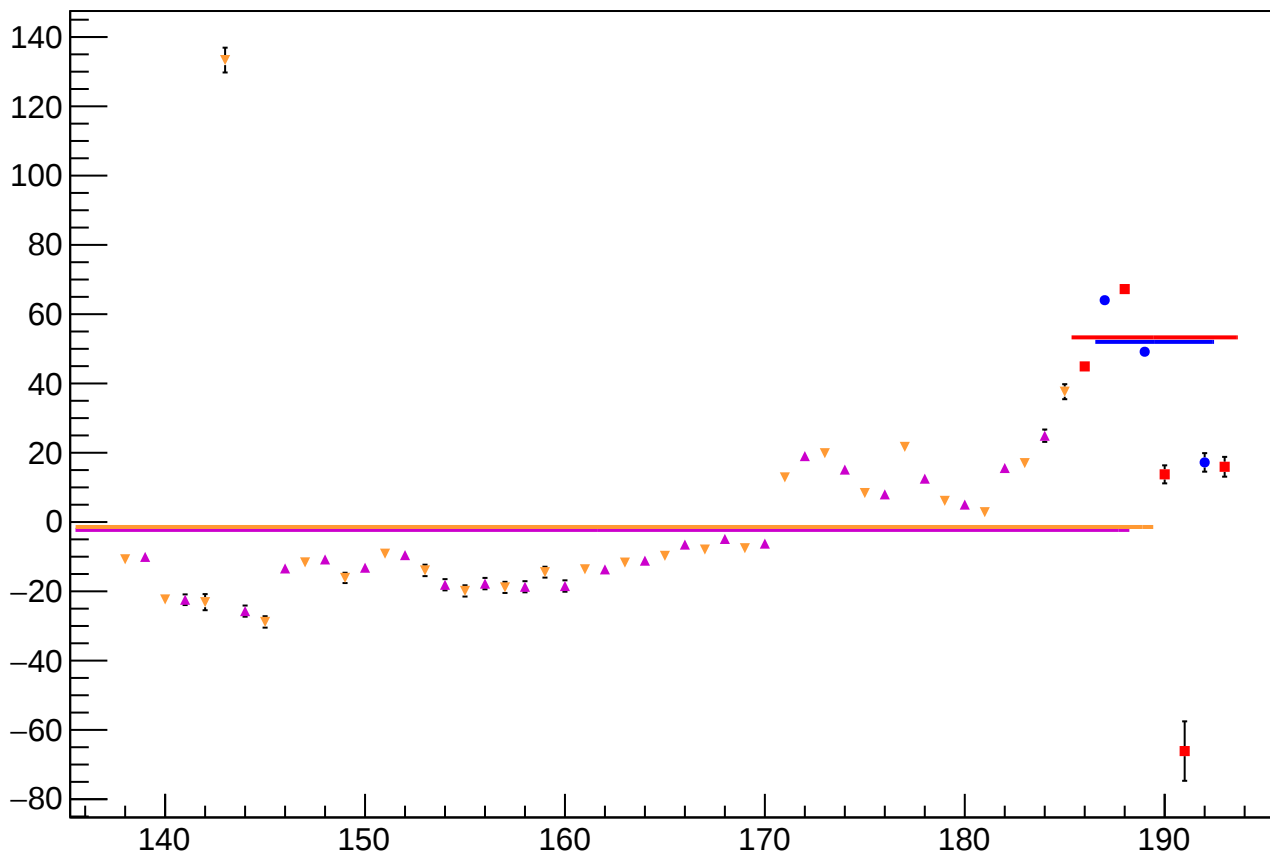
Right: -93.353 $\pm$ 0.044 χ^2/NDF : 1205594.5/43

In: -127.586 $\pm$ 0.036 χ^2/NDF : 1091978.3/42

Out: -123.012 $\pm$ 0.035 χ^2/NDF : 1282104.0/48

All: -125.196 $\pm$ 0.025 χ^2/NDF : 2382286.6/91

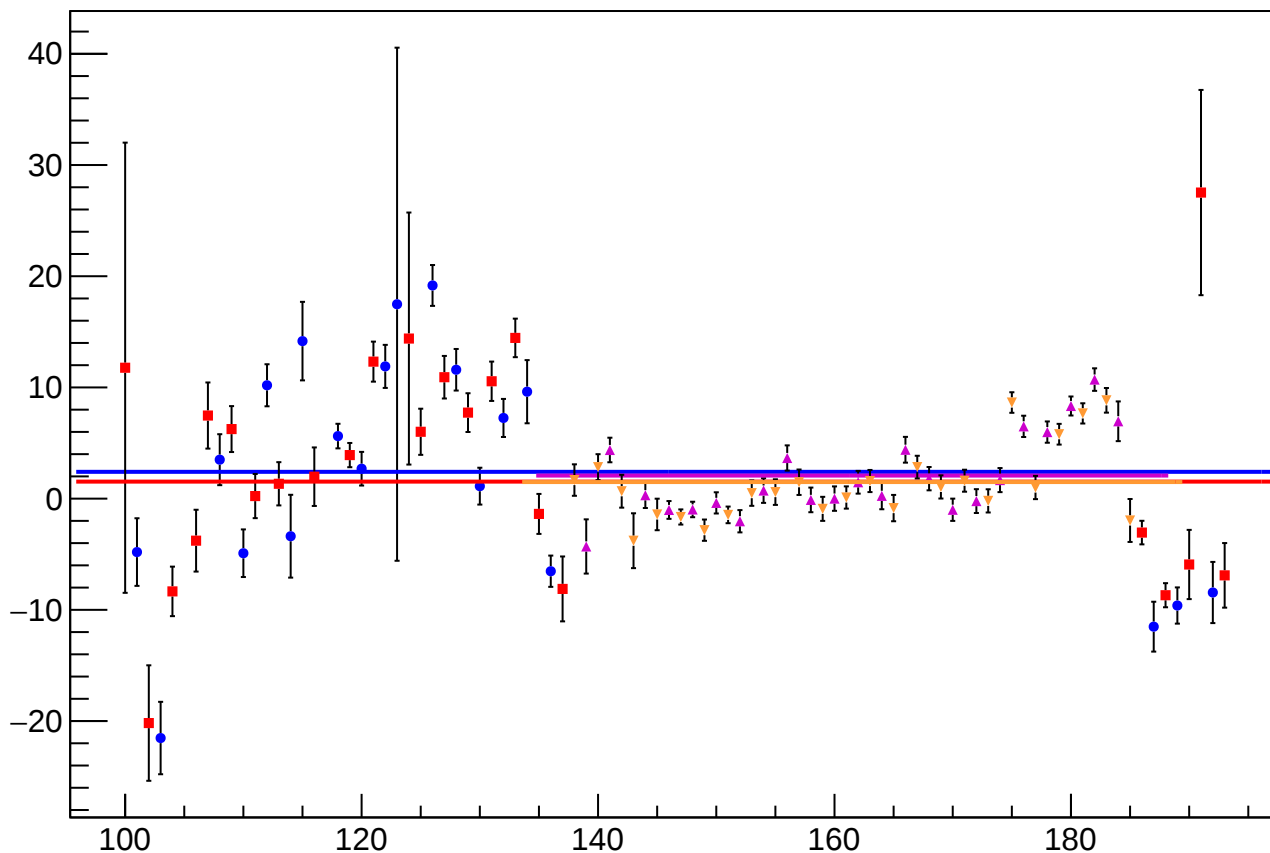
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.009+/-0.942 χ^2/NDF : 247.4/2
 Left Out: -1.427+/-0.268 χ^2/NDF : 4339.0/24
 Right Out: 53.305+/-0.551 χ^2/NDF : 1013.4/4
 Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47
 Right: 52.974+/-0.476 χ^2/NDF : 1262.2/7
 In: 1.871+/-0.260 χ^2/NDF : 5835.3/25
 Out: 9.006+/-0.241 χ^2/NDF : 13324.7/29
 All: 5.715+/-0.177 χ^2/NDF : 19565.1/55

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.410 $\pm$ 0.439 χ^2 /NDF: 406.4/19

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 1.531 $\pm$ 0.394 χ^2 /NDF: 359.0/23

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

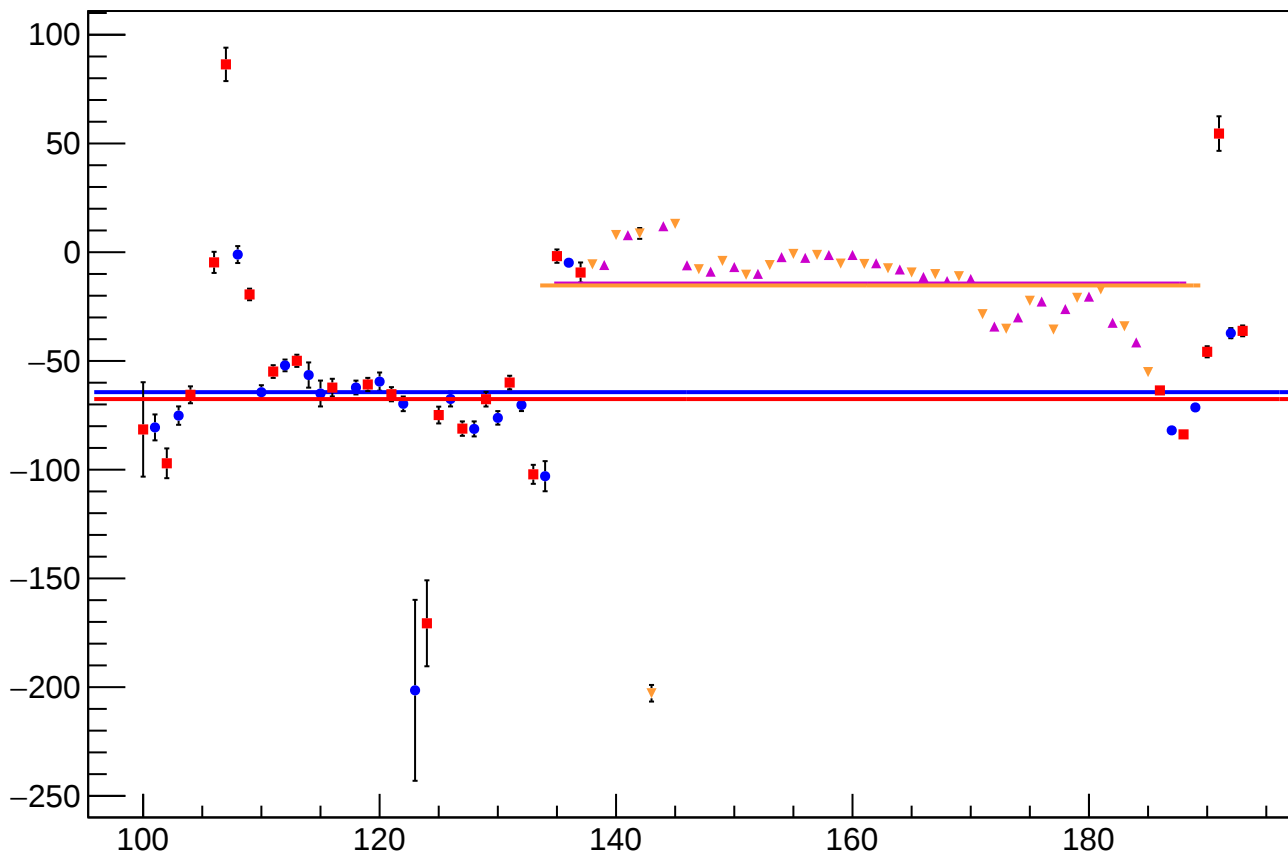
Right: 1.924 $\pm$ 0.293 χ^2 /NDF: 767.6/43

In: 2.140 $\pm$ 0.193 χ^2 /NDF:681.4/42

Out: 1.500 $\pm$ 0.186 χ^2 /NDF:618.1/48

All: 1.807 $\pm$ 0.134 χ^2 /NDF: 1305.2/91

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.343 ± 0.583 $\chi^2/\text{NDF}: 1551.4/19$

Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$

Right Out: -67.531 ± 0.397 $\chi^2/\text{NDF}: 2893.4/23$

Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$

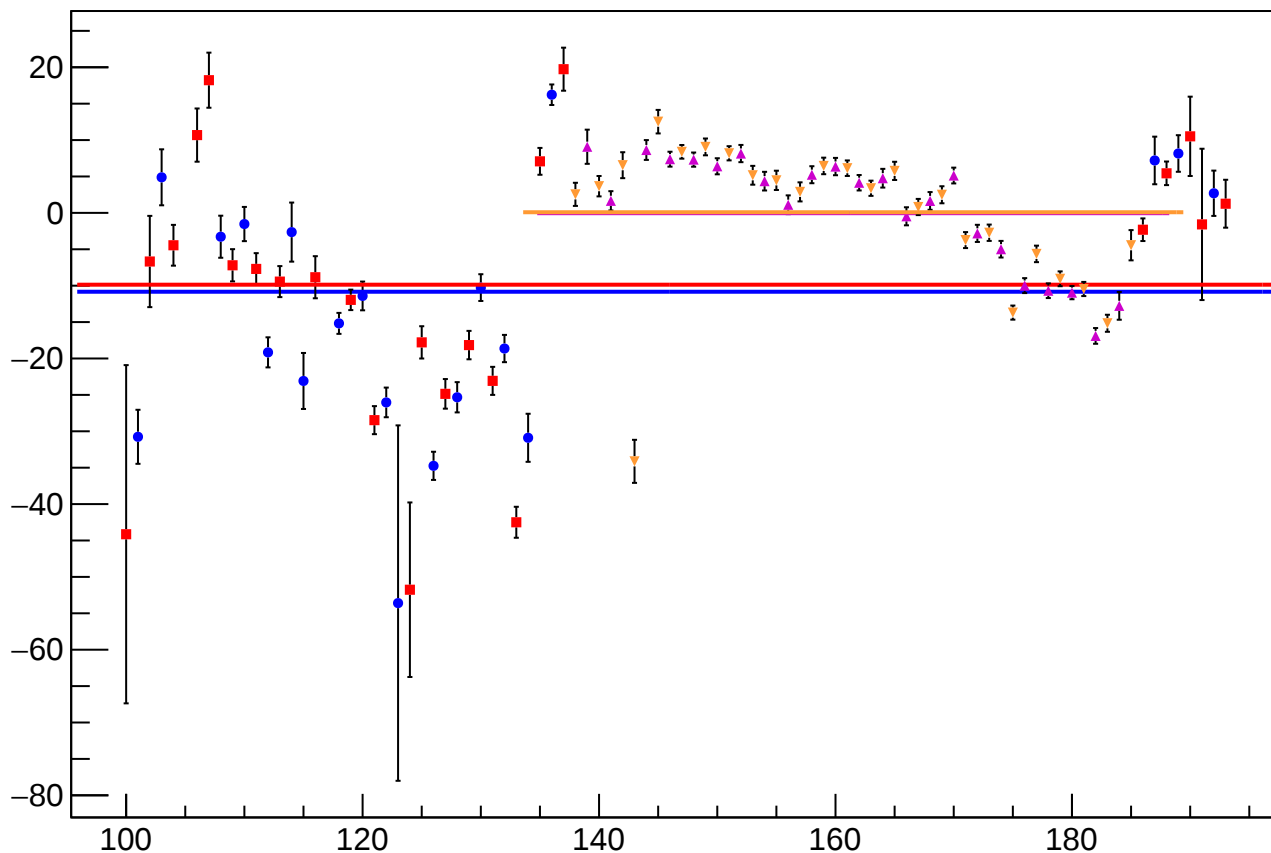
Right: -66.521 ± 0.328 $\chi^2/\text{NDF}: 4465.3/43$

In: -23.187 ± 0.244 $\chi^2/\text{NDF}: 9639.2/42$

Out: -31.552 ± 0.221 $\chi^2/\text{NDF}: 19659.5/48$

All: -27.781 ± 0.164 $\chi^2/\text{NDF}: 29942.4/91$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.832 ± 0.512 χ^2/NDF : 896.9/19

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -9.865 ± 0.478 χ^2/NDF : 894.2/23

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

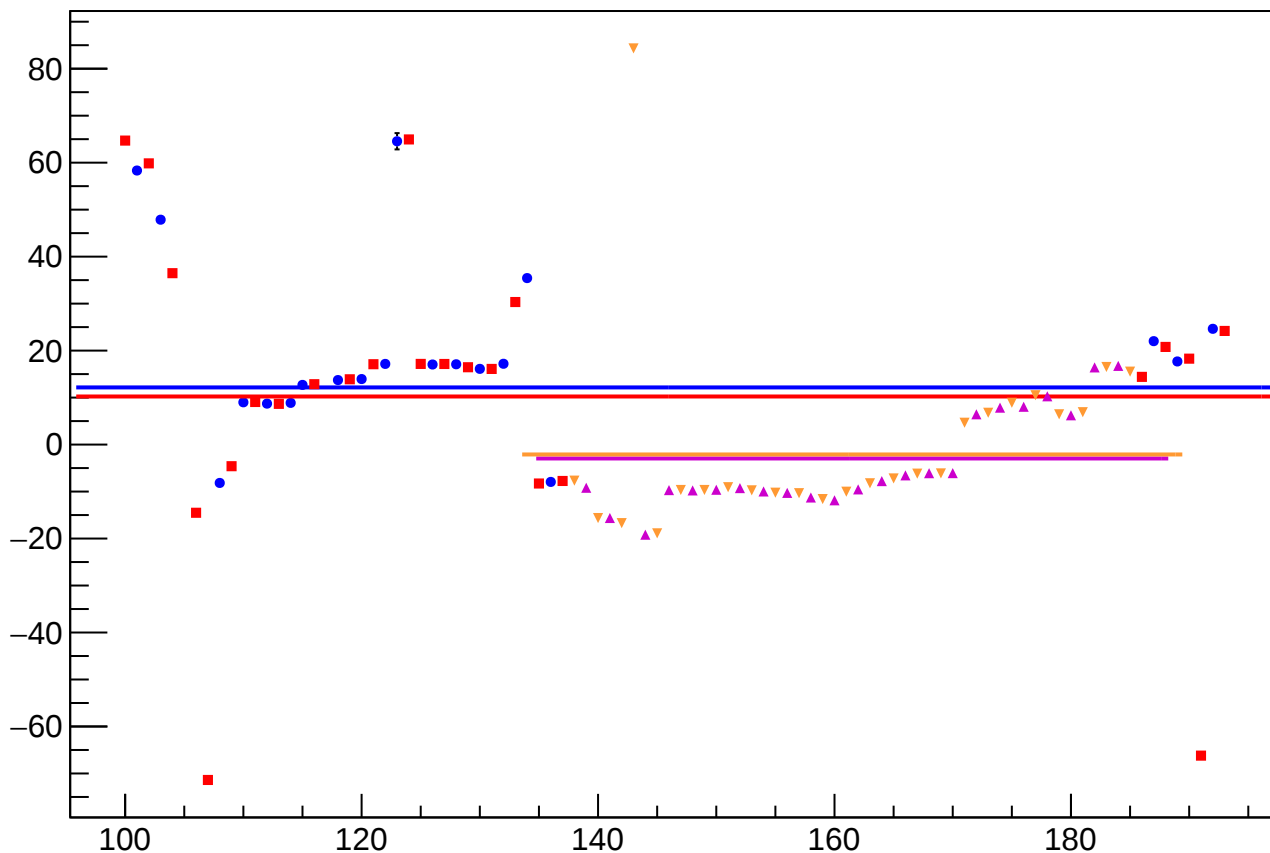
Right: -10.315 ± 0.349 χ^2/NDF : 1792.9/43

In: -2.028 ± 0.220 χ^2/NDF : 2287.4/42

Out: -1.894 ± 0.213 χ^2/NDF : 2413.7/48

All: -1.959 ± 0.153 χ^2/NDF : 4701.3/91

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 12.165 $\pm$ 0.028 χ^2 /NDF: 405392.5/19

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 10.234 $\pm$ 0.027 χ^2 /NDF: 660226.3/23

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF: 763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

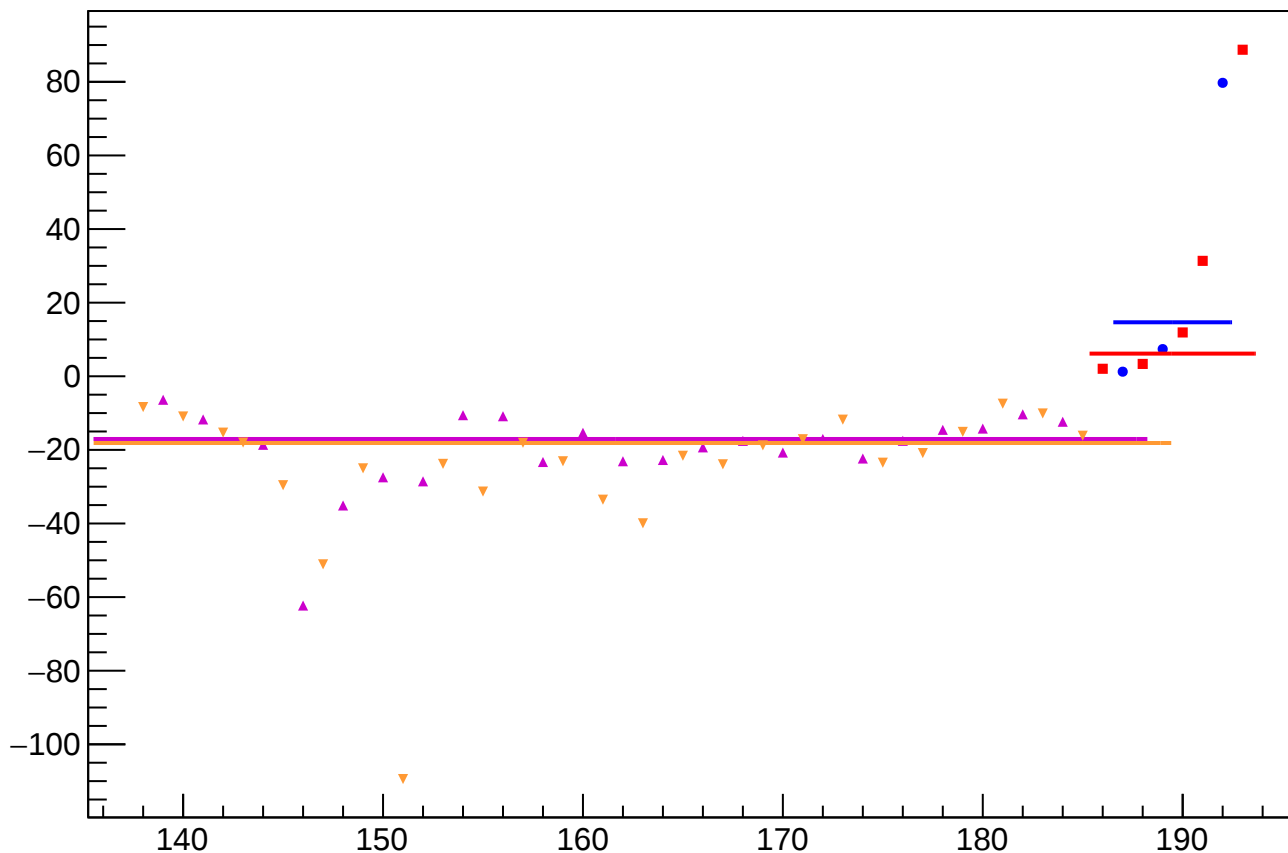
Right: 11.155 $\pm$ 0.019 χ^2 /NDF: 1068078.5/43

In: -0.956 $\pm$ 0.010 χ^2 /NDF: 1418722.4/42

Out: -0.358 $\pm$ 0.010 χ^2 /NDF: 1934072.8/48

All: -0.653 $\pm$ 0.007 χ^2 /NDF: 3354518.9/91

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.669 $\pm$ 0.174 χ^2 /NDF: 21763.6/2

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 6.156 $\pm$ 0.091 χ^2 /NDF: 23856.7/4

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

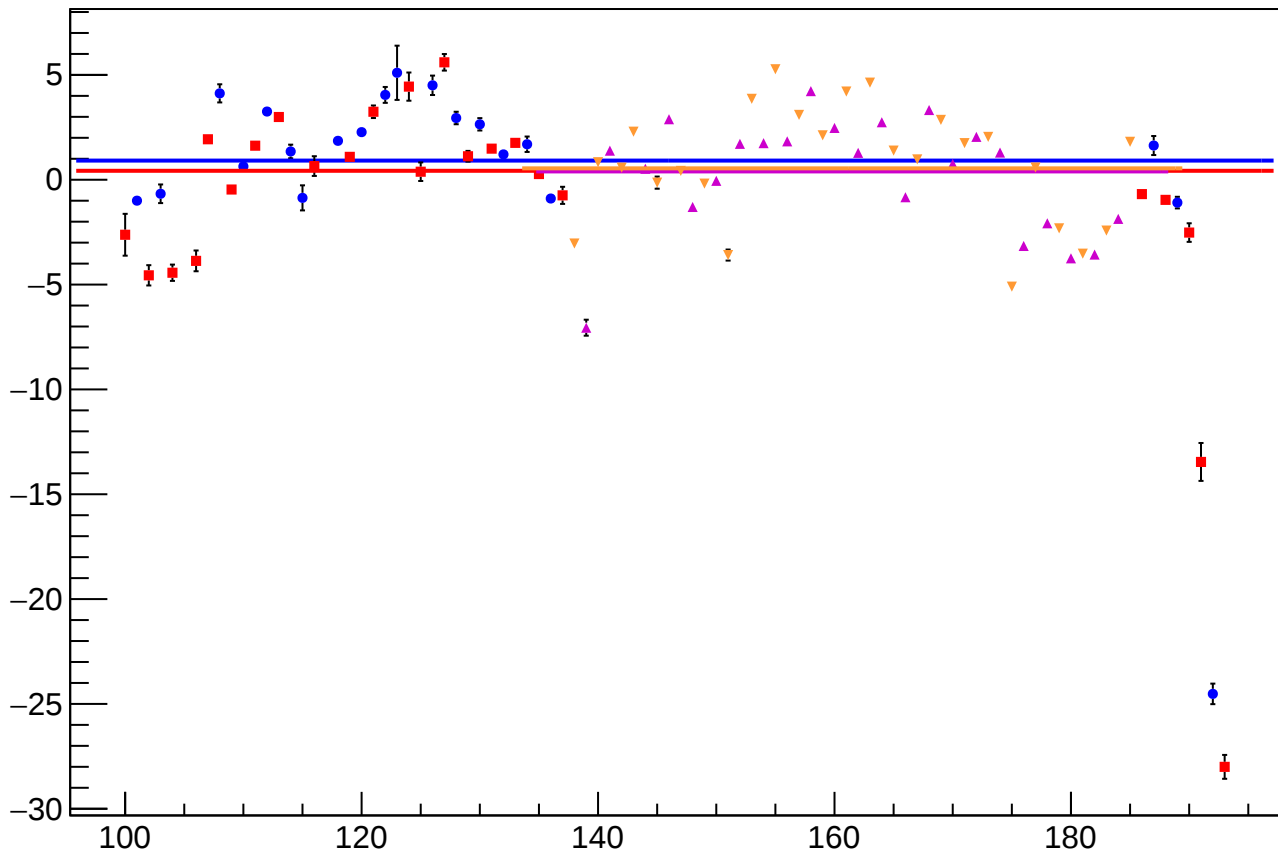
Right: 7.992 $\pm$ 0.081 χ^2 /NDF: 47502.5/7

In: -15.580 $\pm$ 0.037 χ^2 /NDF: 97667.0/25

Out: -14.382 $\pm$ 0.036 χ^2 /NDF: 172483.9/29

All: -14.957 $\pm$ 0.026 χ^2 /NDF: 270688.9/55

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.914 ± 0.060 $\chi^2/\text{NDF}: 3451.1/19$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.427 ± 0.053 $\chi^2/\text{NDF}: 3933.7/23$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

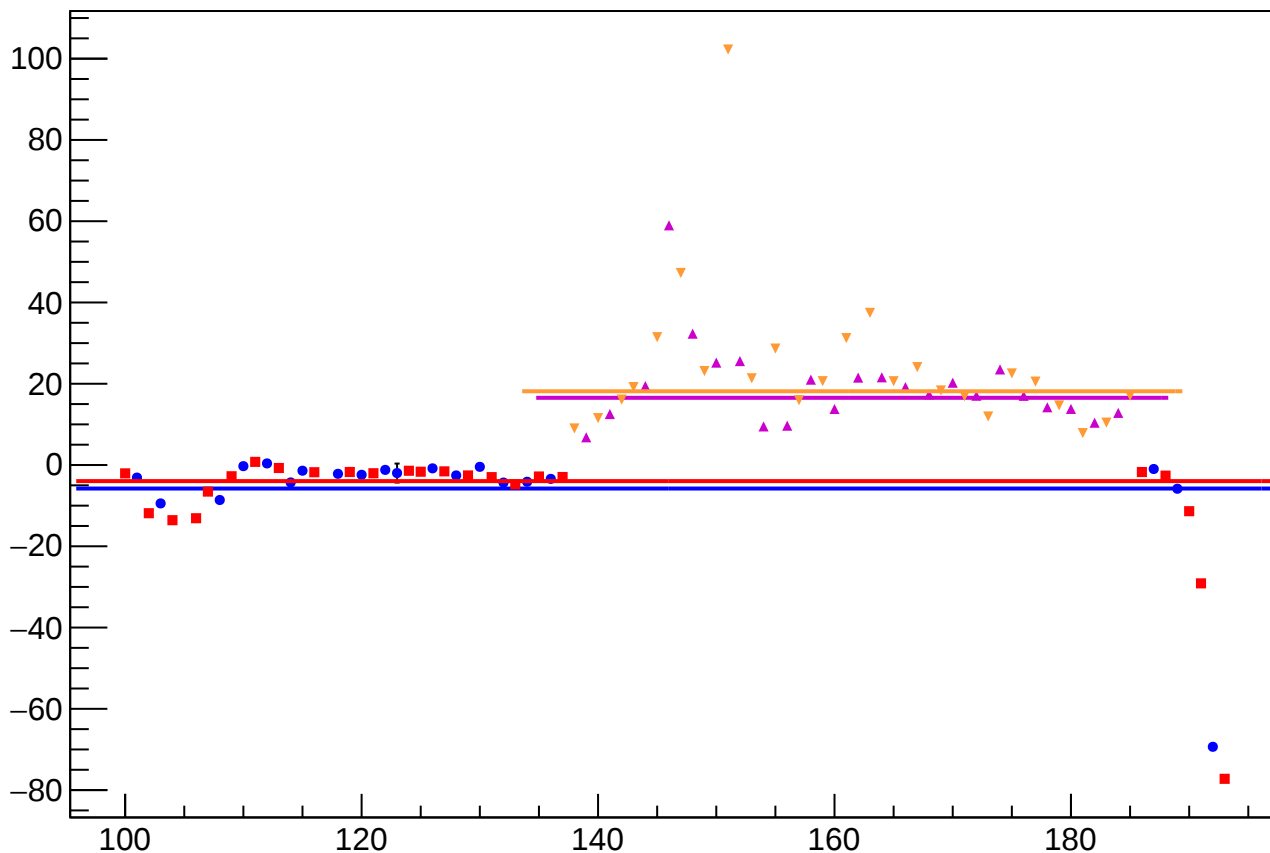
Right: 0.640 ± 0.039 $\chi^2/\text{NDF}: 7422.3/43$

In: 0.505 ± 0.027 $\chi^2/\text{NDF}: 9746.1/42$

Out: 0.511 ± 0.028 $\chi^2/\text{NDF}: 11022.5/48$

All: 0.508 ± 0.019 $\chi^2/\text{NDF}: 20768.7/91$

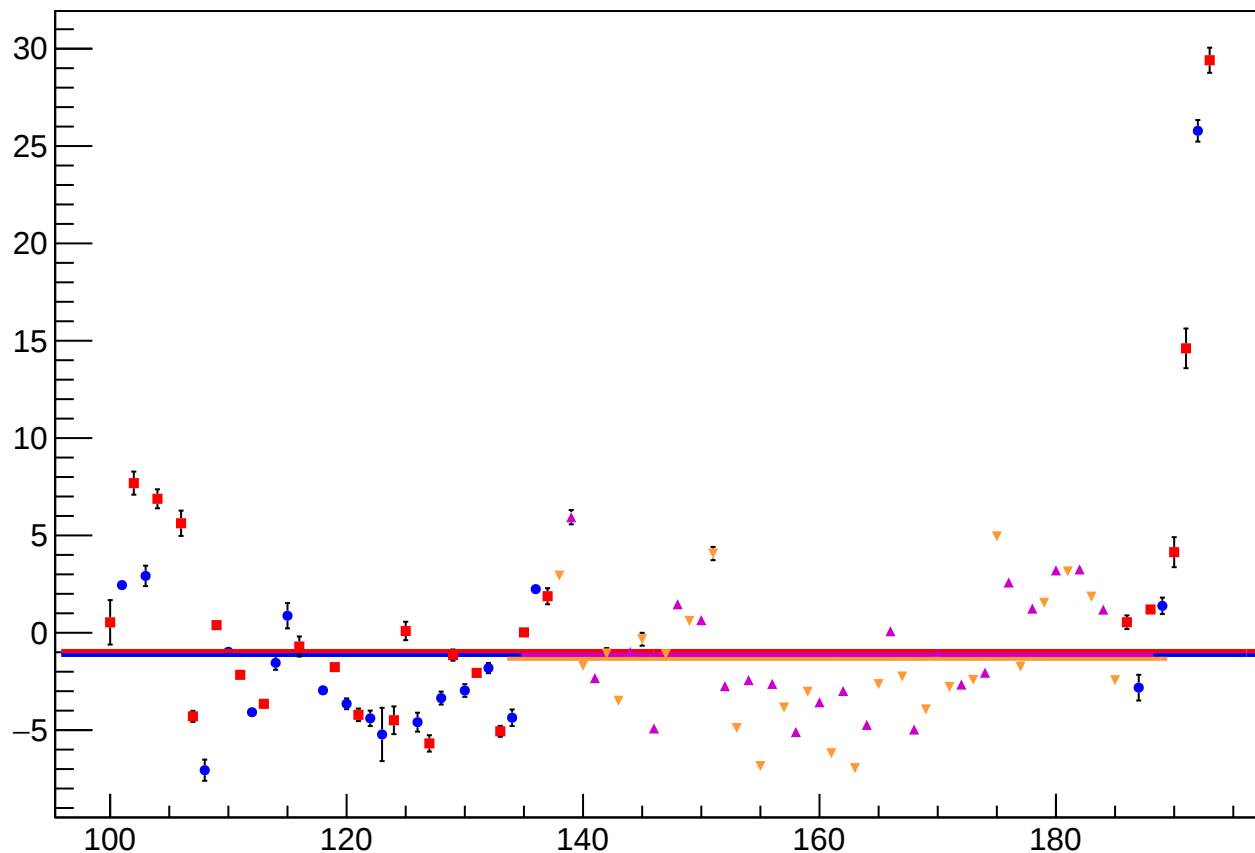
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.787 ± 0.089 $\chi^2/\text{NDF}: 25375.2/19$
 Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$
 Right Out: -3.959 ± 0.059 $\chi^2/\text{NDF}: 25468.0/23$
 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: -4.527 ± 0.049 $\chi^2/\text{NDF}: 51137.2/43$
 In: 13.106 ± 0.035 $\chi^2/\text{NDF}: 120063.3/42$
 Out: 11.468 ± 0.033 $\chi^2/\text{NDF}: 199972.4/48$
 All: 12.237 ± 0.024 $\chi^2/\text{NDF}: 321215.1/91$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.140 ± 0.069 χ^2/NDF : 3712.9/19

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.937 ± 0.062 χ^2/NDF : 4178.6/23

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

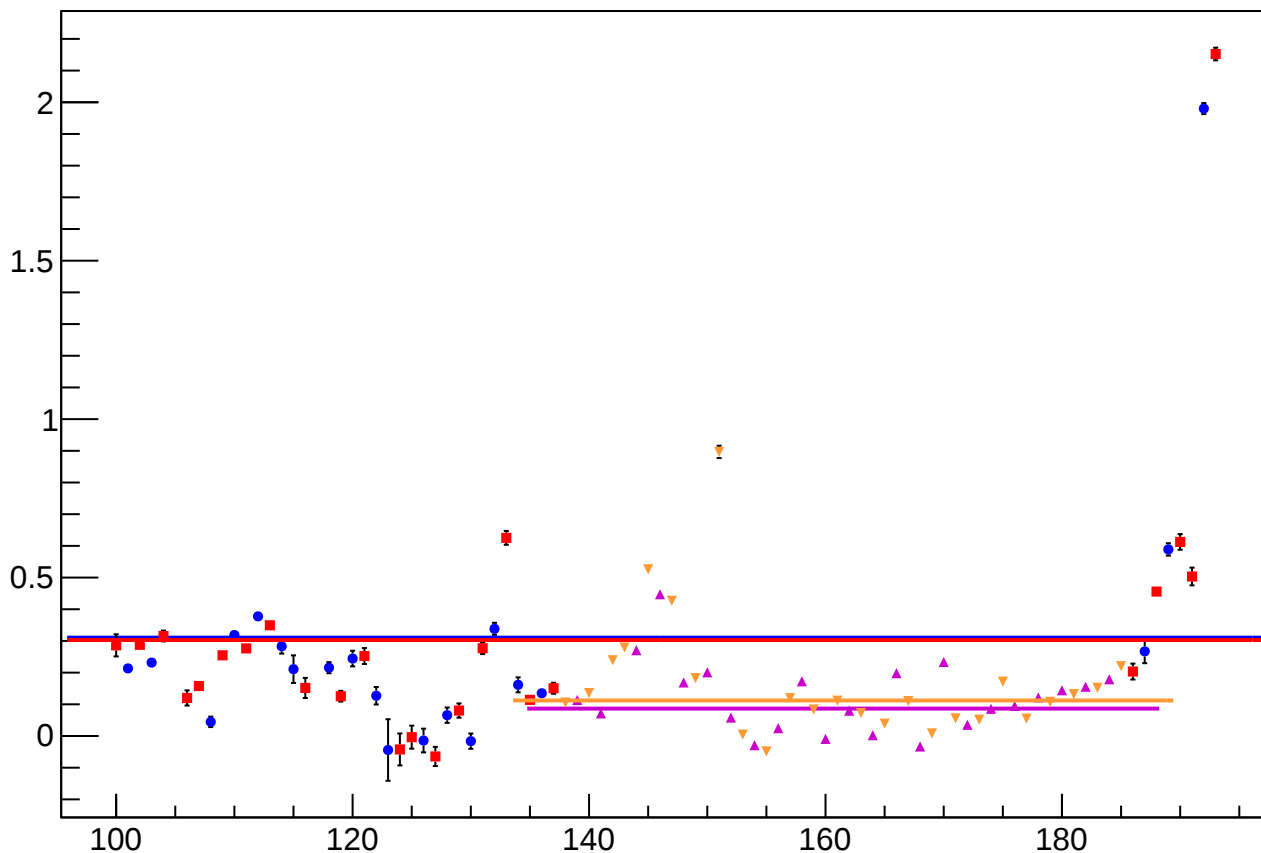
Right: -1.027 ± 0.046 χ^2/NDF : 7896.3/43

In: -1.131 ± 0.031 χ^2/NDF : 10453.1/42

Out: -1.236 ± 0.031 χ^2/NDF : 12153.2/48

All: -1.183 ± 0.022 χ^2/NDF : 22612.1/91

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 $\pm$ 0.004 χ^2 /NDF: 10610.1/19

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.303 $\pm$ 0.003 χ^2 /NDF: 10458.7/23

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

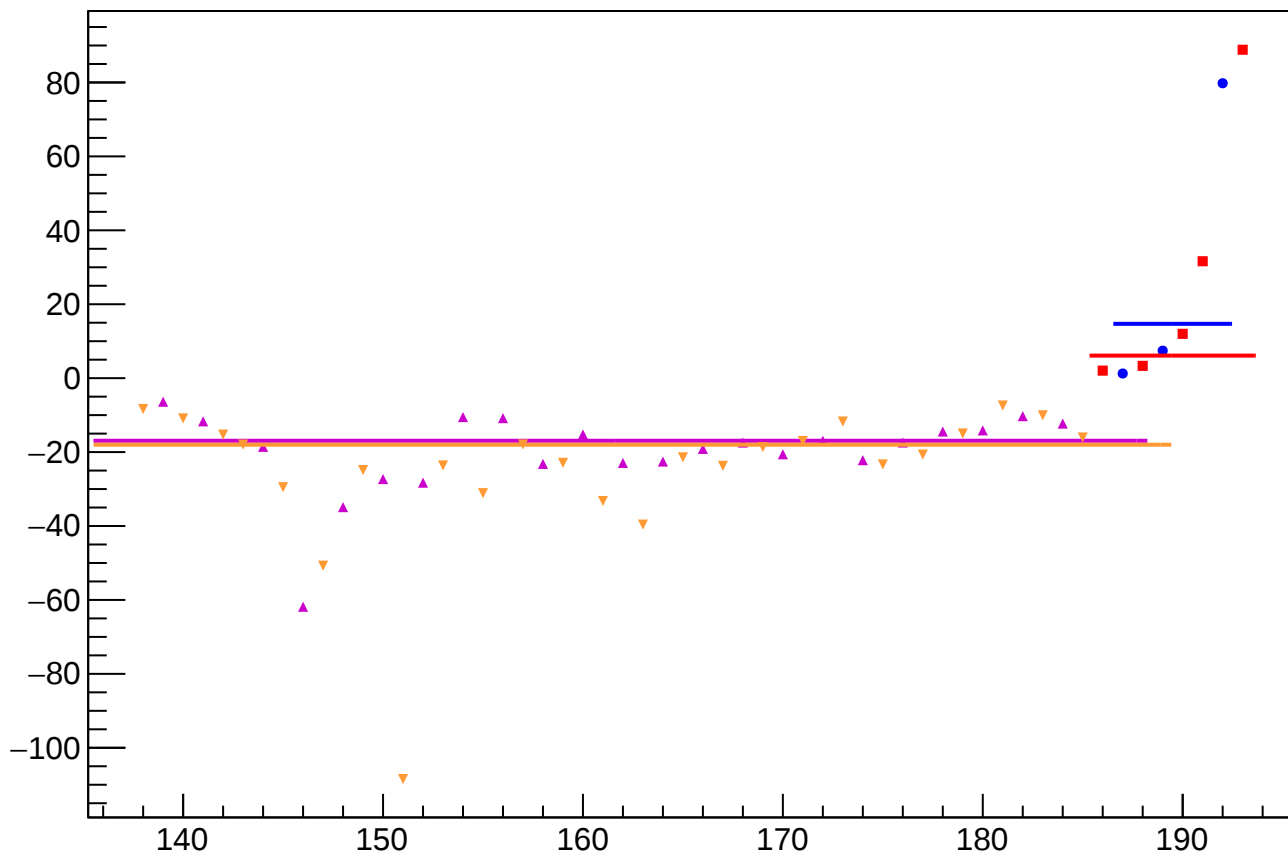
Right: 0.306 $\pm$ 0.003 χ^2 /NDF: 21070.7/43

In: 0.115 $\pm$ 0.001 χ^2 /NDF:17084.4/42

Out: 0.147 $\pm$ 0.001 χ^2 /NDF:17543.7/48

All: 0.130 $\pm$ 0.001 χ^2 /NDF: 34879.3/91

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



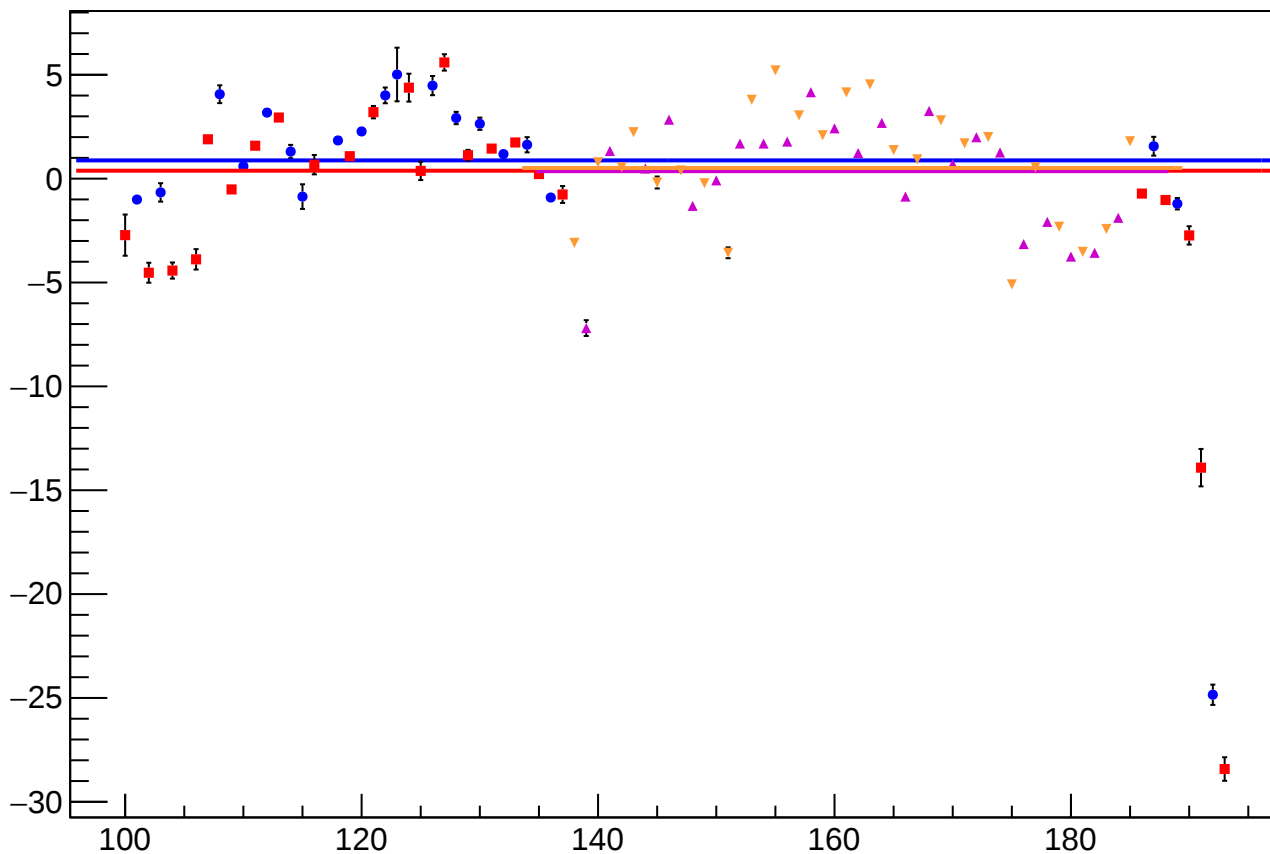
Right In: 14.699 ± 0.173 $\chi^2/\text{NDF}: 21937.8/2$
 Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$
 Right Out: 6.107 ± 0.090 $\chi^2/\text{NDF}: 24193.8/4$
 Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$
 Right: 7.938 ± 0.080 $\chi^2/\text{NDF}: 48070.5/7$

In: -15.486 ± 0.037 $\chi^2/\text{NDF}: 97872.3/25$
 Out: -14.259 ± 0.036 $\chi^2/\text{NDF}: 173075.9/29$

All: -14.847 ± 0.026 $\chi^2/\text{NDF}: 271520.7/55$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.879 ± 0.059 $\chi^2/\text{NDF}: 3537.9/19$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.383 ± 0.052 $\chi^2/\text{NDF}: 4059.8/23$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

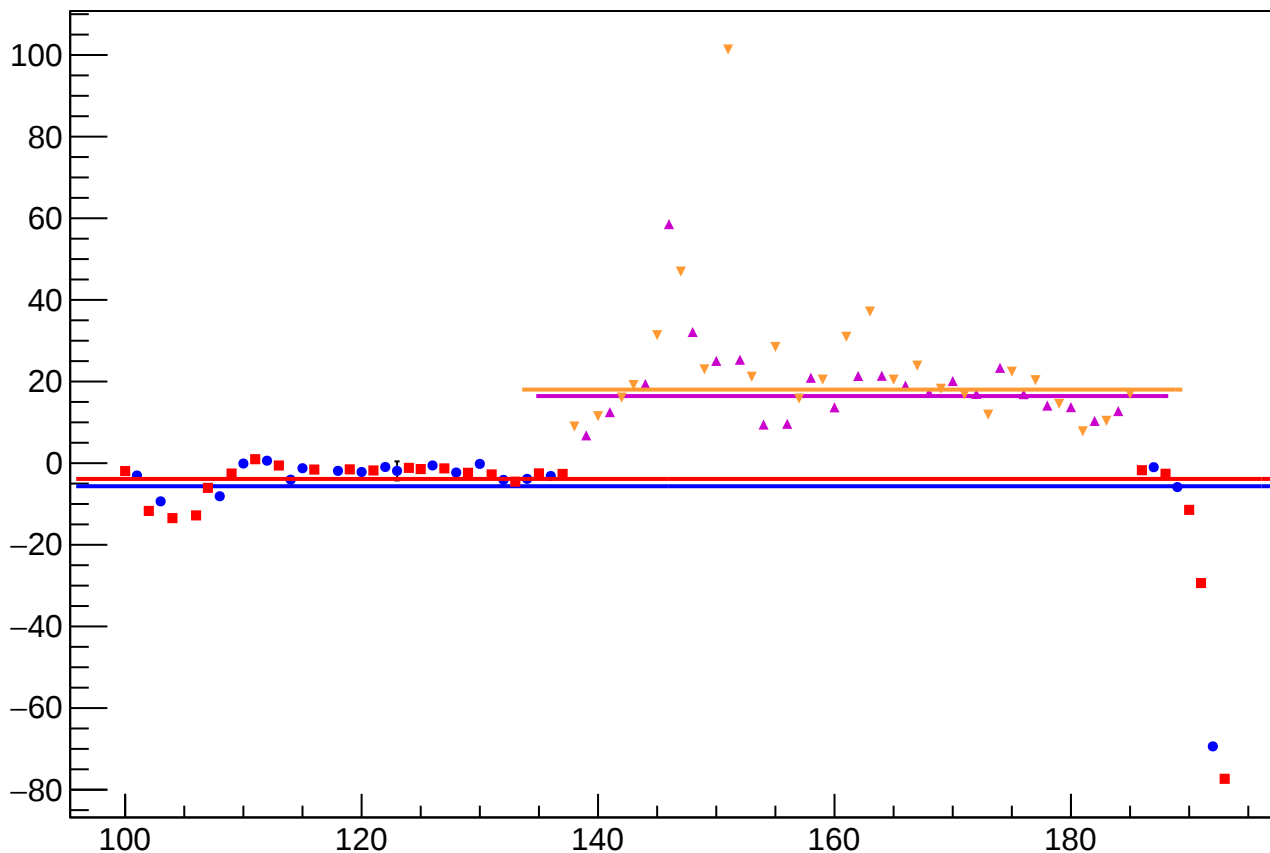
Right: 0.600 ± 0.039 $\chi^2/\text{NDF}: 7637.1/43$

In: 0.468 ± 0.027 $\chi^2/\text{NDF}: 9819.6/42$

Out: 0.476 ± 0.027 $\chi^2/\text{NDF}: 11134.6/48$

All: 0.472 ± 0.019 $\chi^2/\text{NDF}: 20954.2/91$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.650 ± 0.088 $\chi^2/\text{NDF}: 25716.4/19$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -3.858 ± 0.059 $\chi^2/\text{NDF}: 25865.6/23$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

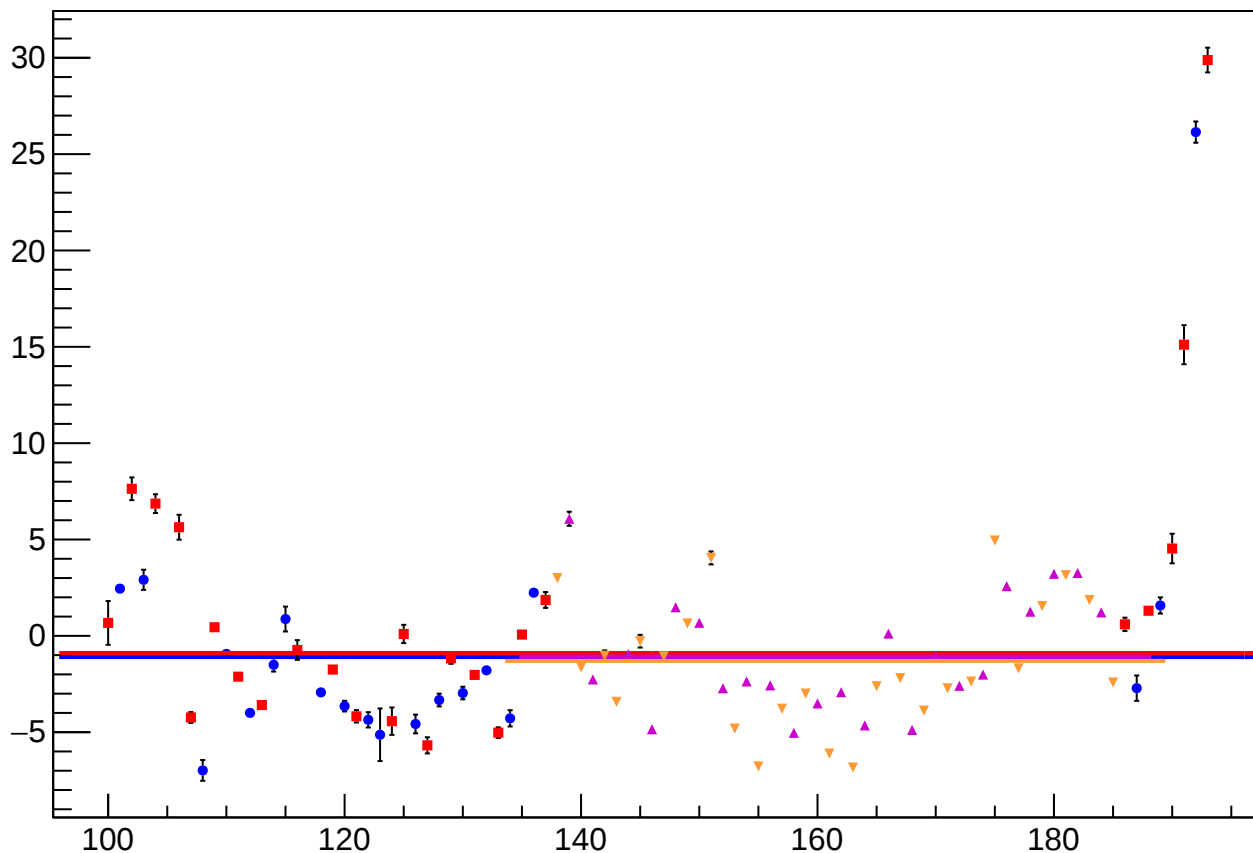
Right: -4.411 ± 0.049 $\chi^2/\text{NDF}: 51867.8/43$

In: 13.054 ± 0.035 $\chi^2/\text{NDF}: 119711.4/42$

Out: 11.393 ± 0.032 $\chi^2/\text{NDF}: 199920.6/48$

All: 12.171 ± 0.024 $\chi^2/\text{NDF}: 320862.6/91$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

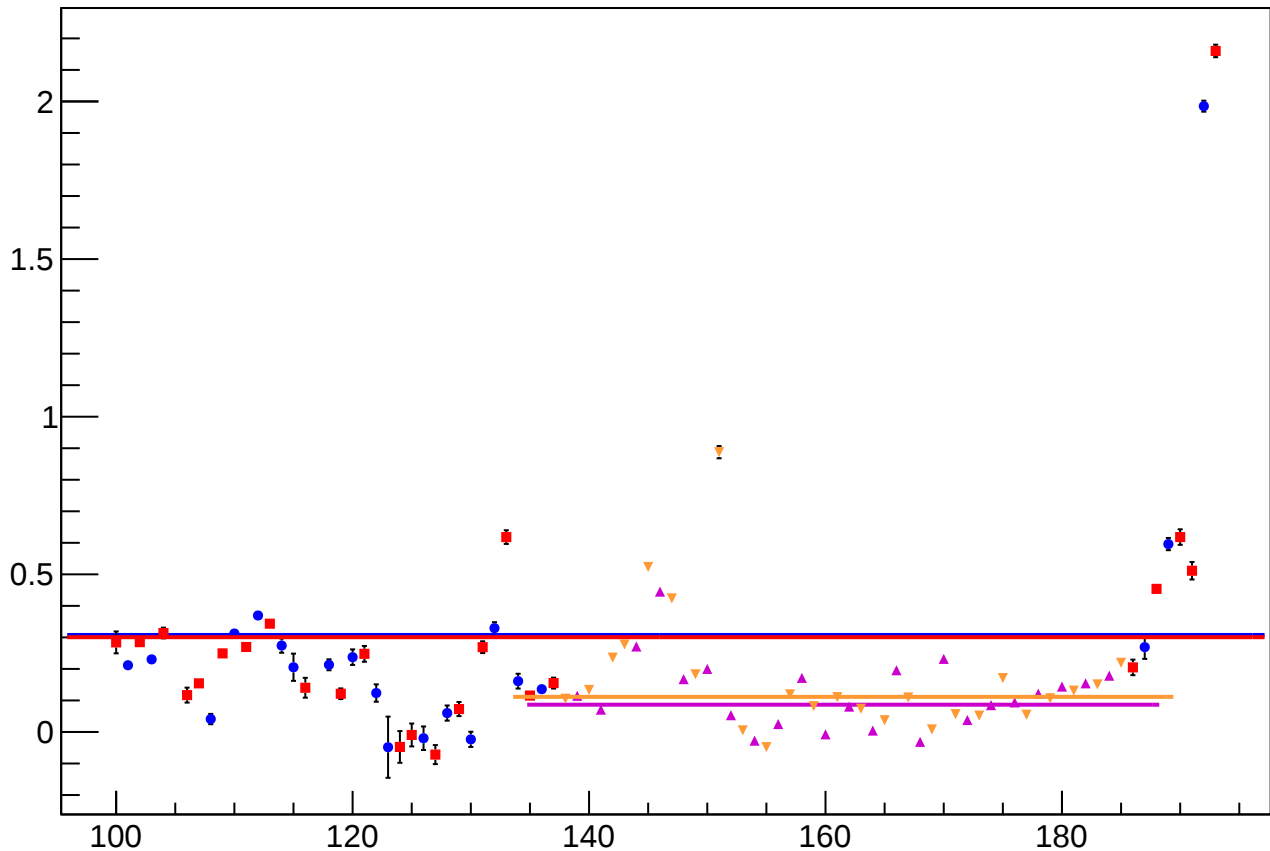


Right In: -1.102 ± 0.069 $\chi^2/\text{NDF}: 3789.0/19$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.888 ± 0.061 $\chi^2/\text{NDF}: 4300.1/23$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.983 ± 0.046 $\chi^2/\text{NDF}: 8094.5/43$
 In: -1.086 ± 0.030 $\chi^2/\text{NDF}: 10513.2/42$
 Out: -1.194 ± 0.031 $\chi^2/\text{NDF}: 12258.4/48$

All: -1.139 ± 0.022 $\chi^2/\text{NDF}: 22777.8/91$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.308 $\pm$ 0.004 χ^2 /NDF: 10775.0/19

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.301 $\pm$ 0.003 χ^2 /NDF: 10647.9/23

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

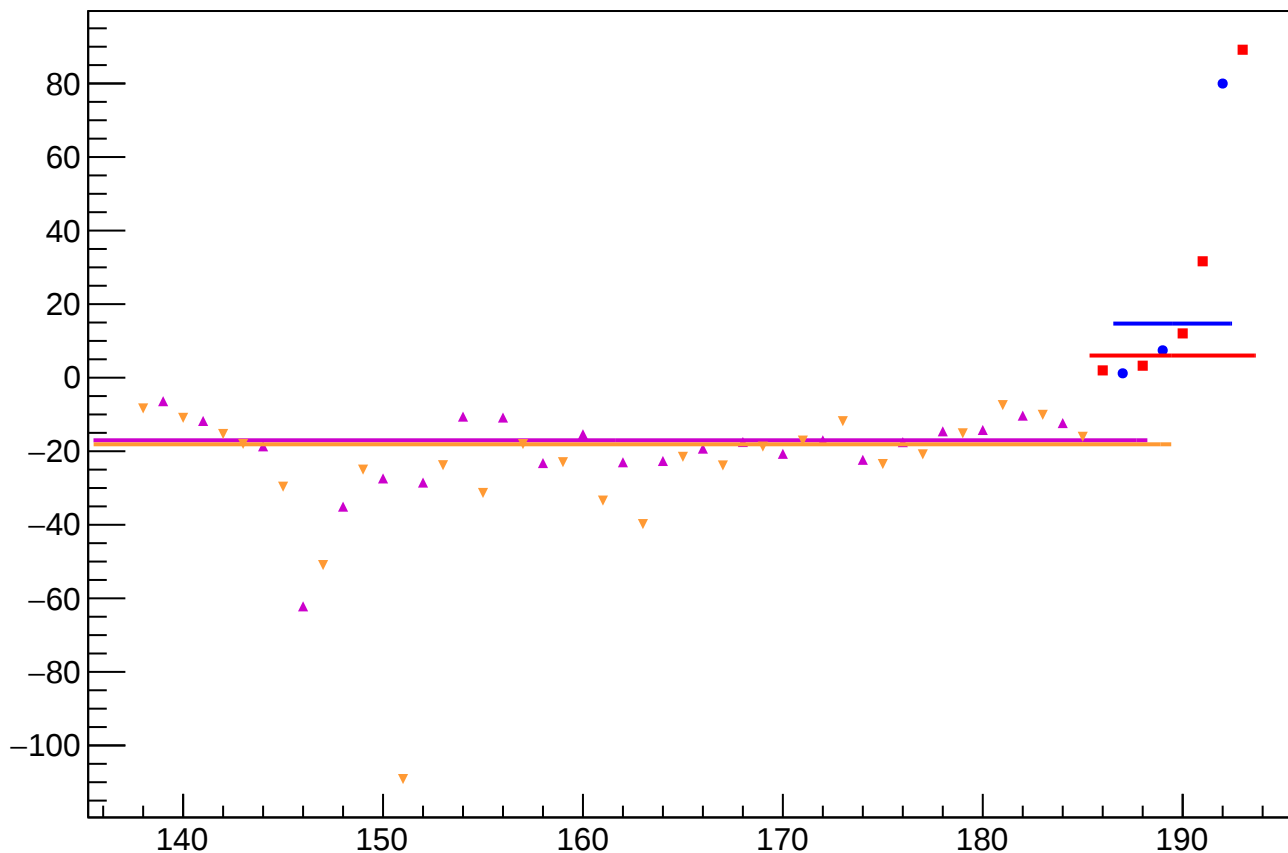
Right: 0.304 $\pm$ 0.003 χ^2 /NDF: 21424.7/43

In: 0.115 $\pm$ 0.001 χ^2 /NDF:17180.3/42

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:17710.7/48

All: 0.130 $\pm$ 0.001 χ^2 /NDF: 35135.0/91

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.711 $\pm$ 0.174 χ^2 /NDF: 21935.0/2

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 6.022 $\pm$ 0.090 χ^2 /NDF: 24213.0/4

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF: 44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

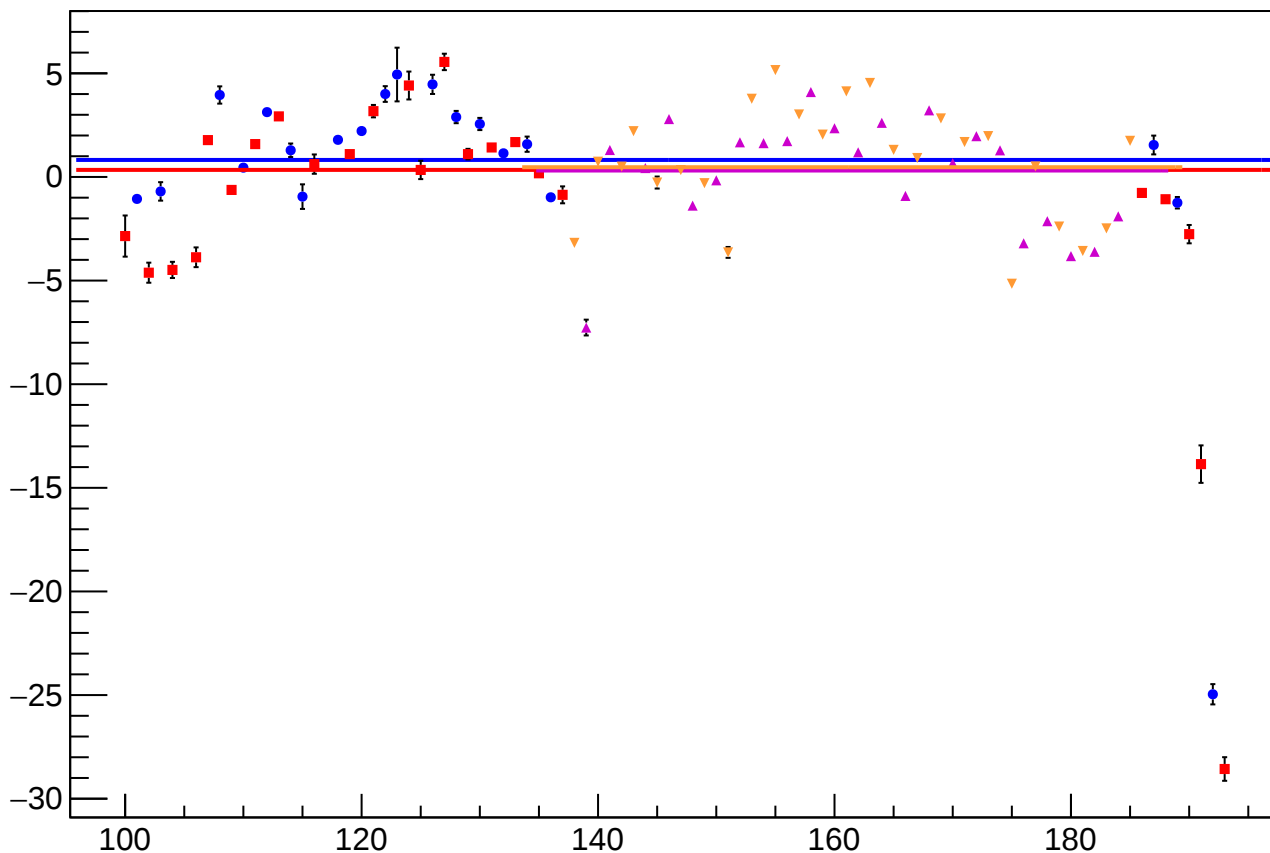
Right: 7.860 $\pm$ 0.080 χ^2 /NDF: 48120.1/7

In: -15.571 $\pm$ 0.037 χ^2 /NDF: 97912.2/25

Out: -14.328 $\pm$ 0.036 χ^2 /NDF: 173401.6/29

All: -14.923 $\pm$ 0.026 χ^2 /NDF: 271897.3/55

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.821 ± 0.060 χ^2/NDF : 3535.8/19

Left Out: 0.469 ± 0.032 χ^2/NDF : 7093.0/24

Right Out: 0.341 ± 0.052 χ^2/NDF : 4060.8/23

Left In: 0.311 ± 0.031 χ^2/NDF : 6183.1/22

Left: 0.386 ± 0.022 χ^2/NDF : 13288.8/47

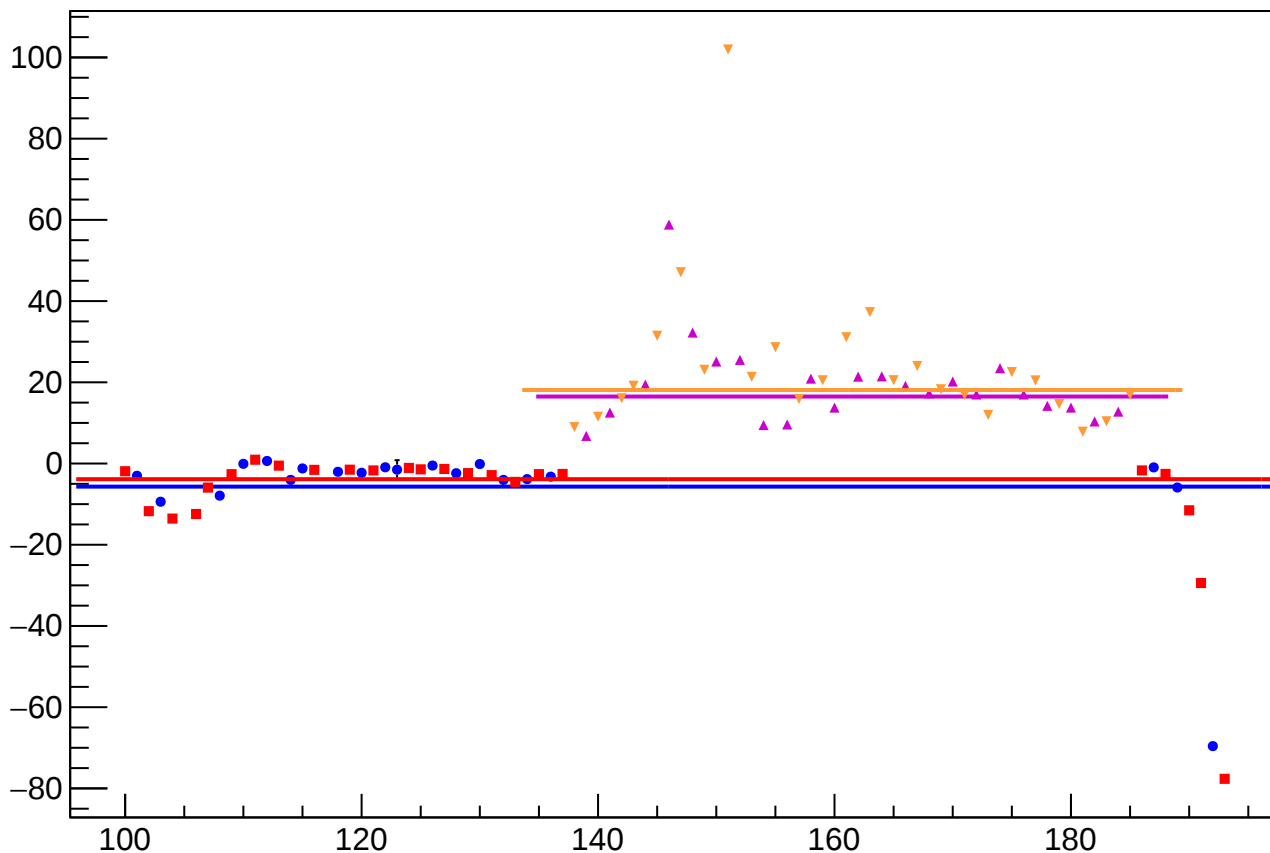
Right: 0.550 ± 0.039 χ^2/NDF : 7633.2/43

In: 0.417 ± 0.027 χ^2/NDF : 9776.9/42

Out: 0.434 ± 0.027 χ^2/NDF : 11158.1/48

All: 0.425 ± 0.019 χ^2/NDF : 20935.2/91

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.684 ± 0.089 $\chi^2/\text{NDF}: 25695.9/19$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -3.851 ± 0.059 $\chi^2/\text{NDF}: 25848.8/23$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

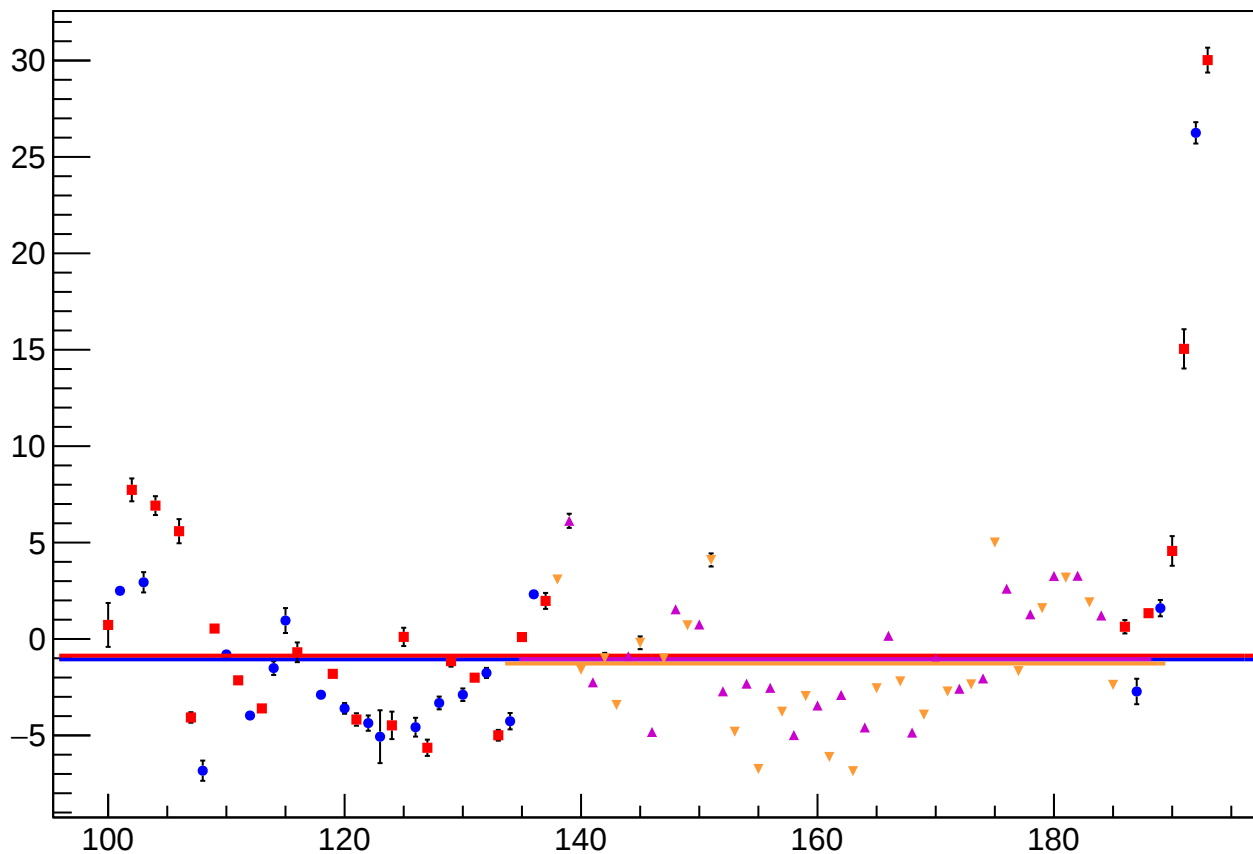
Right: -4.413 ± 0.049 $\chi^2/\text{NDF}: 51842.0/43$

In: 13.099 ± 0.035 $\chi^2/\text{NDF}: 119704.5/42$

Out: 11.415 ± 0.033 $\chi^2/\text{NDF}: 200242.7/48$

All: 12.203 ± 0.024 $\chi^2/\text{NDF}: 321203.2/91$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.056 ± 0.069 $\chi^2/\text{NDF}: 3788.2/19$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.865 ± 0.062 $\chi^2/\text{NDF}: 4304.1/23$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

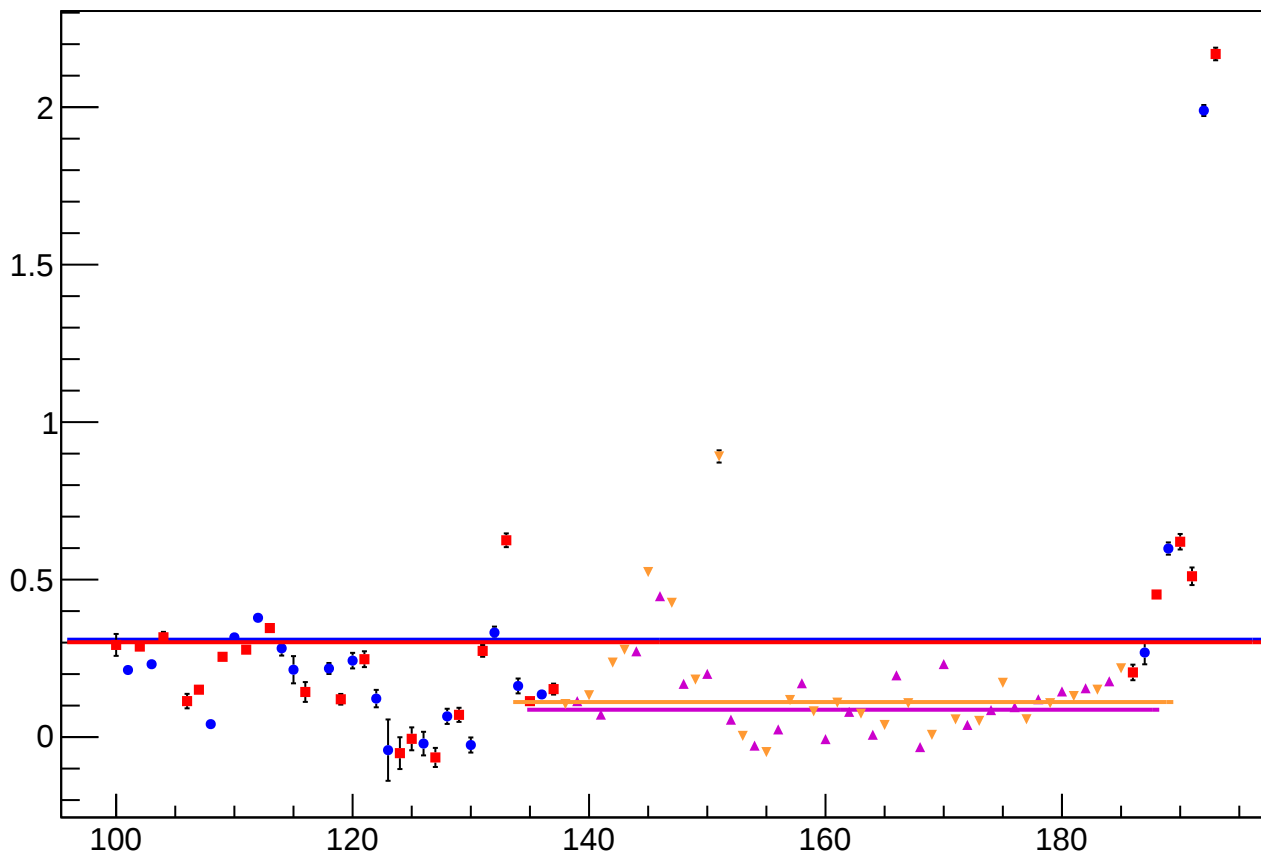
Right: -0.949 ± 0.046 $\chi^2/\text{NDF}: 8096.5/43$

In: -1.051 ± 0.031 $\chi^2/\text{NDF}: 10461.6/42$

Out: -1.170 ± 0.031 $\chi^2/\text{NDF}: 12288.5/48$

All: -1.110 ± 0.022 $\chi^2/\text{NDF}: 22757.5/91$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.309 $\pm$ 0.004 χ^2 /NDF: 10774.4/19

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.301 $\pm$ 0.003 χ^2 /NDF: 10669.0/23

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

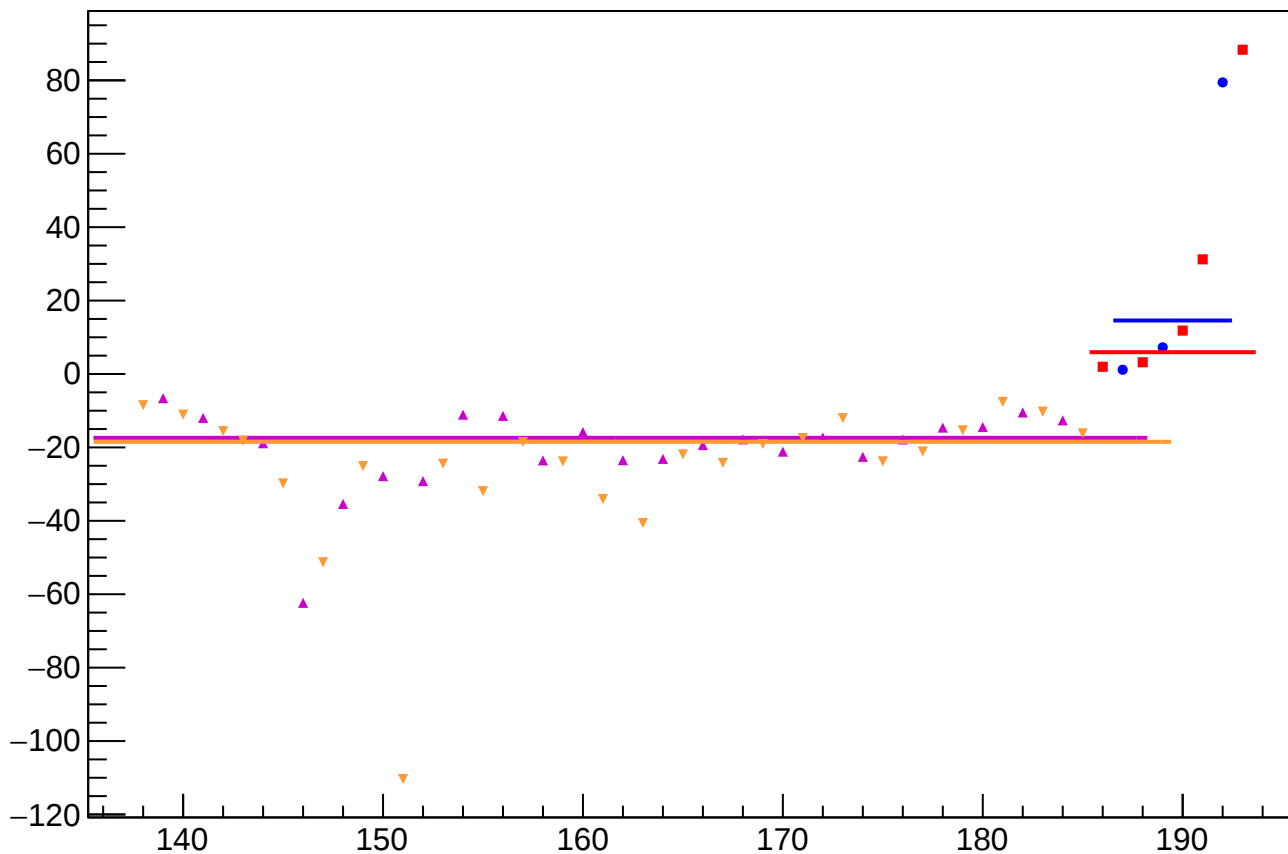
Right: 0.305 $\pm$ 0.003 χ^2 /NDF: 21445.9/43

In: 0.115 $\pm$ 0.001 χ^2 /NDF:17163.5/42

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:17719.7/48

All: 0.130 $\pm$ 0.001 χ^2 /NDF: 35119.5/91

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



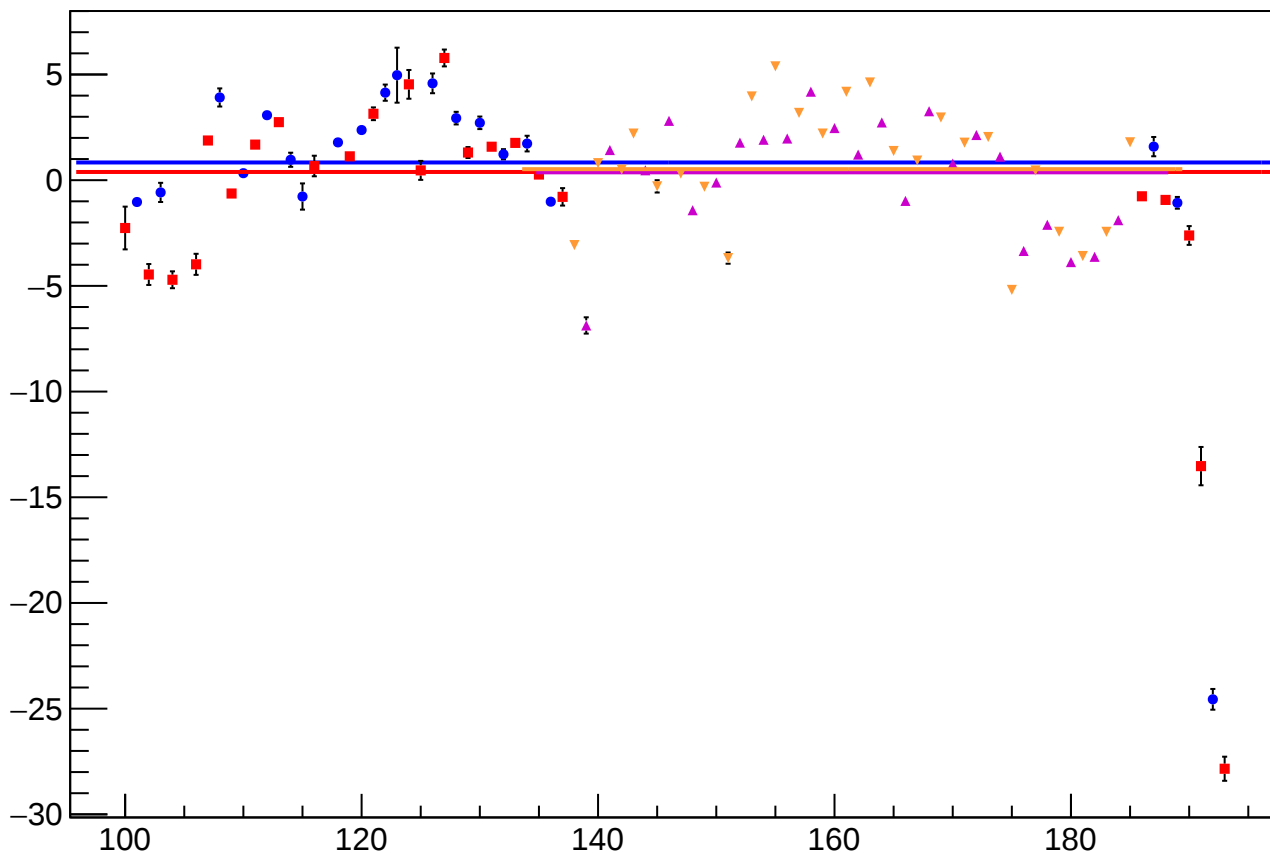
Right In: 14.577 ± 0.174 $\chi^2/\text{NDF}: 21562.9/2$
 Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$
 Right Out: 5.942 ± 0.090 $\chi^2/\text{NDF}: 23701.3/4$
 Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$
 Right: 7.767 ± 0.080 $\chi^2/\text{NDF}: 47199.6/7$

In: -15.872 ± 0.038 $\chi^2/\text{NDF}: 96776.5/25$
 Out: -14.520 ± 0.036 $\chi^2/\text{NDF}: 172931.2/29$

All: -15.165 ± 0.026 $\chi^2/\text{NDF}: 270368.5/55$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.838 ± 0.061 $\chi^2/\text{NDF}: 3430.7/19$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.388 ± 0.053 $\chi^2/\text{NDF}: 3879.1/23$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

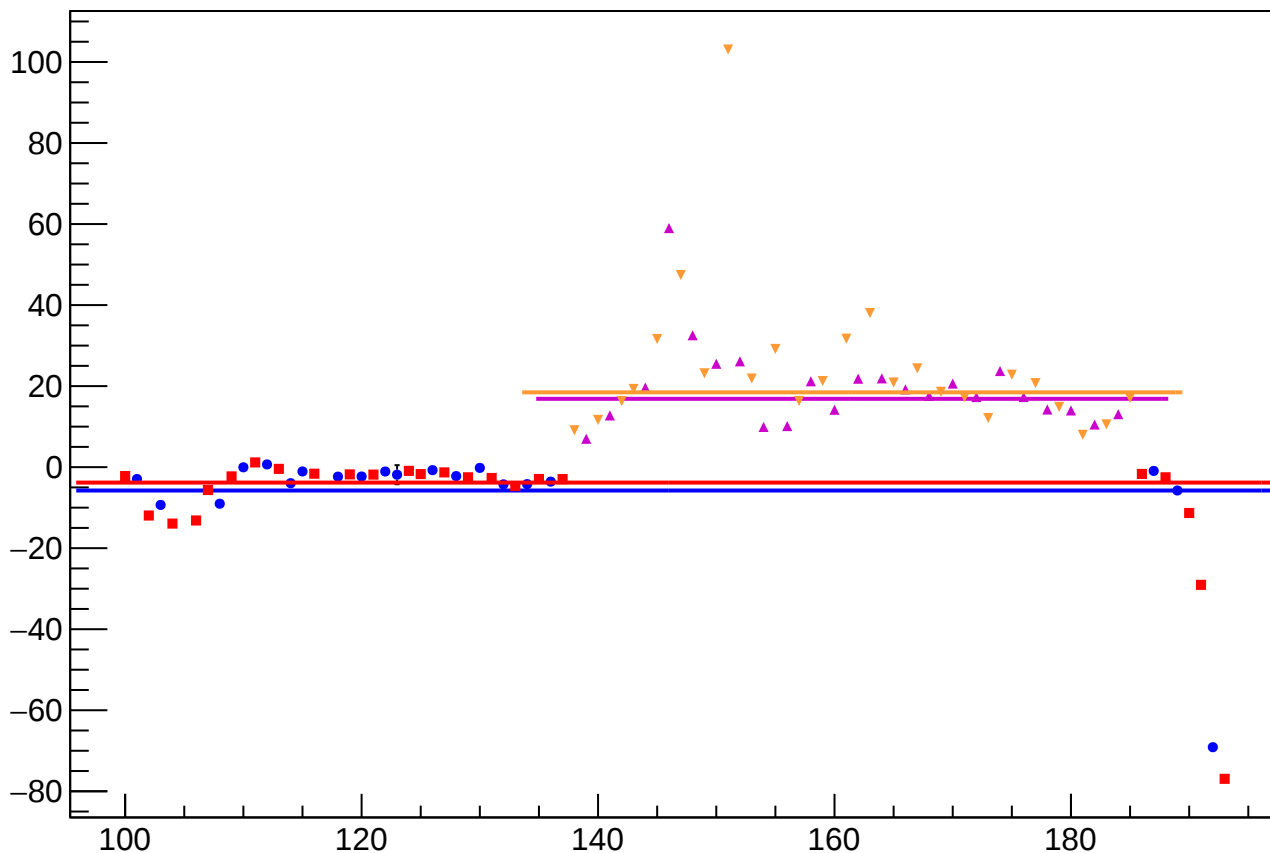
Right: 0.585 ± 0.040 $\chi^2/\text{NDF}: 7340.8/43$

In: 0.470 ± 0.028 $\chi^2/\text{NDF}: 9694.9/42$

Out: 0.485 ± 0.028 $\chi^2/\text{NDF}: 10938.7/48$

All: 0.477 ± 0.020 $\chi^2/\text{NDF}: 20633.7/91$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.767 ± 0.090 $\chi^2/\text{NDF}: 25180.5/19$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -3.811 ± 0.059 $\chi^2/\text{NDF}: 25343.4/23$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

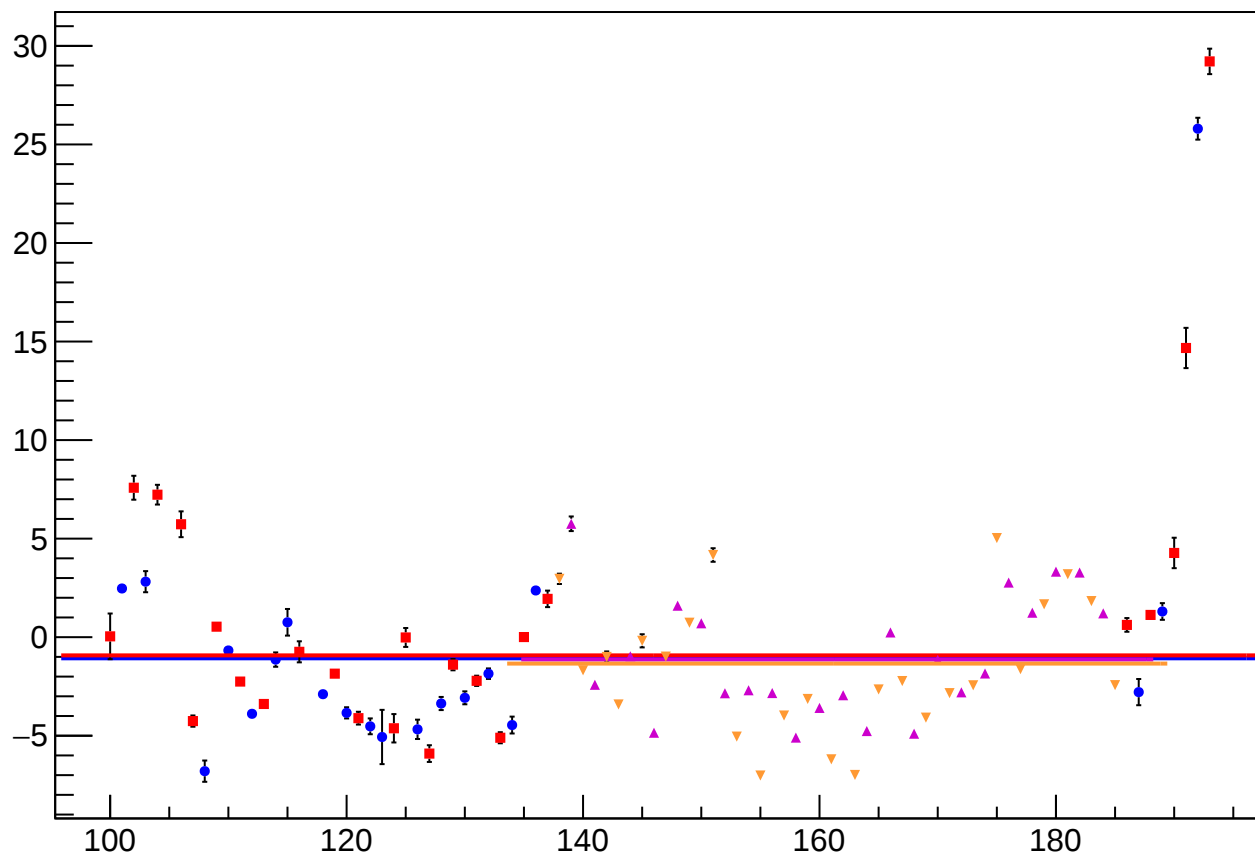
Right: -4.408 ± 0.050 $\chi^2/\text{NDF}: 50854.4/43$

In: 13.332 ± 0.035 $\chi^2/\text{NDF}: 118750.7/42$

Out: 11.554 ± 0.033 $\chi^2/\text{NDF}: 199376.6/48$

All: 12.384 ± 0.024 $\chi^2/\text{NDF}: 319470.5/91$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

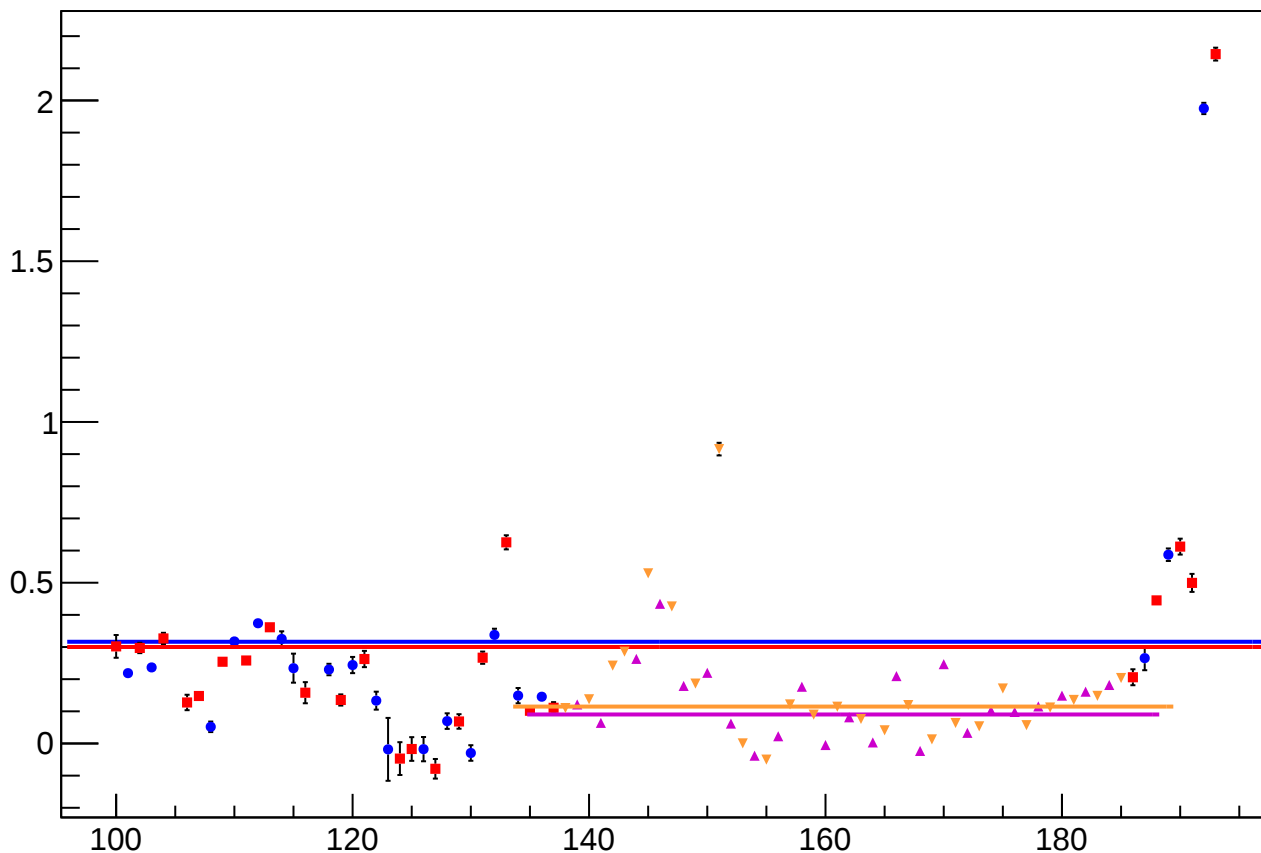


Right In: -1.072 ± 0.071 $\chi^2/\text{NDF}: 3681.2/19$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.924 ± 0.063 $\chi^2/\text{NDF}: 4119.3/23$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.989 ± 0.047 $\chi^2/\text{NDF}: 7803.0/43$
 In: -1.120 ± 0.031 $\chi^2/\text{NDF}: 10390.3/42$
 Out: -1.234 ± 0.032 $\chi^2/\text{NDF}: 12059.6/48$

All: -1.177 ± 0.022 $\chi^2/\text{NDF}: 22456.5/91$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.004 χ^2 /NDF: 10428.0/19

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.300 $\pm$ 0.003 χ^2 /NDF: 10466.3/23

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

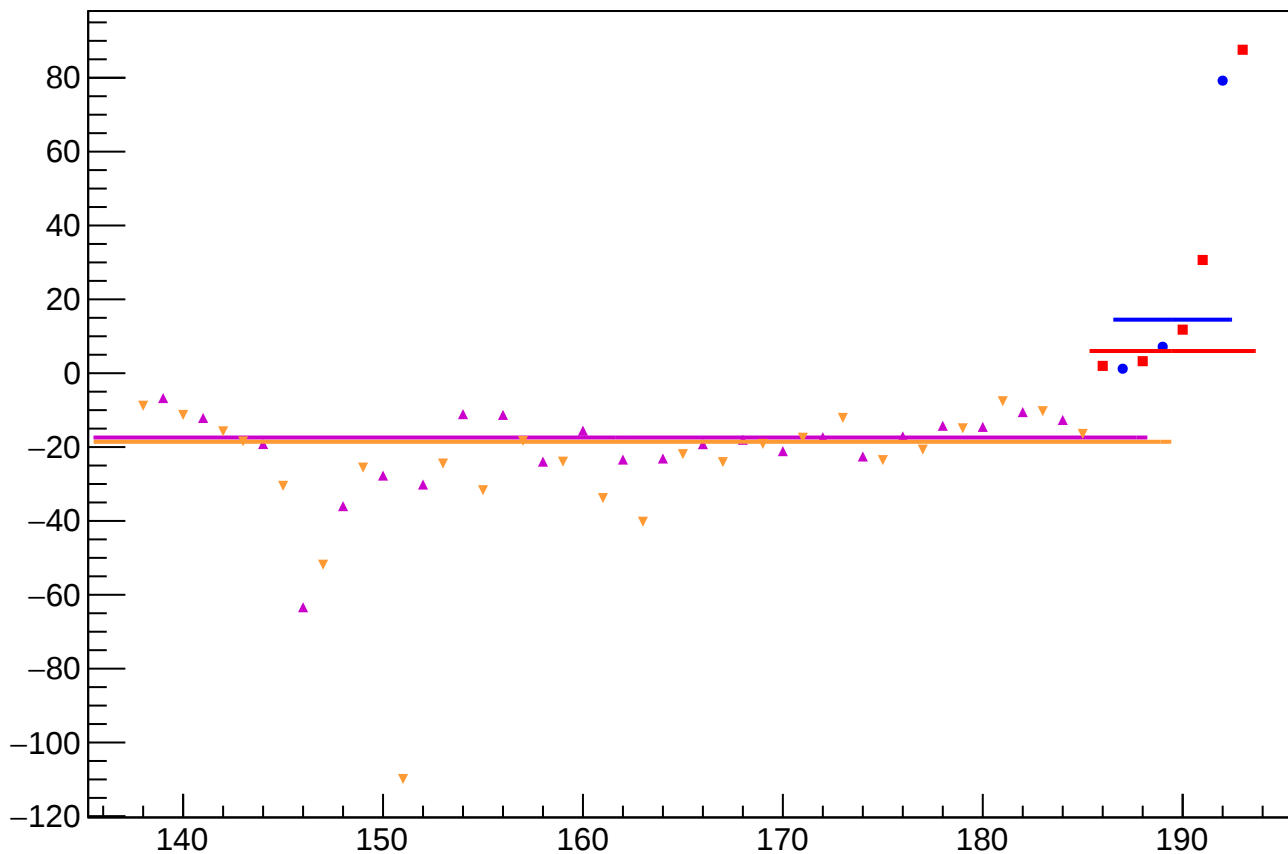
Right: 0.307 $\pm$ 0.003 χ^2 /NDF: 20903.8/43

In: 0.119 $\pm$ 0.001 χ^2 /NDF:16892.4/42

Out: 0.149 $\pm$ 0.001 χ^2 /NDF:17260.3/48

All: 0.134 $\pm$ 0.001 χ^2 /NDF: 34359.0/91

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.501 ± 0.175 $\chi^2/\text{NDF}: 21235.1/2$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 6.011 ± 0.091 $\chi^2/\text{NDF}: 23120.8/4$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

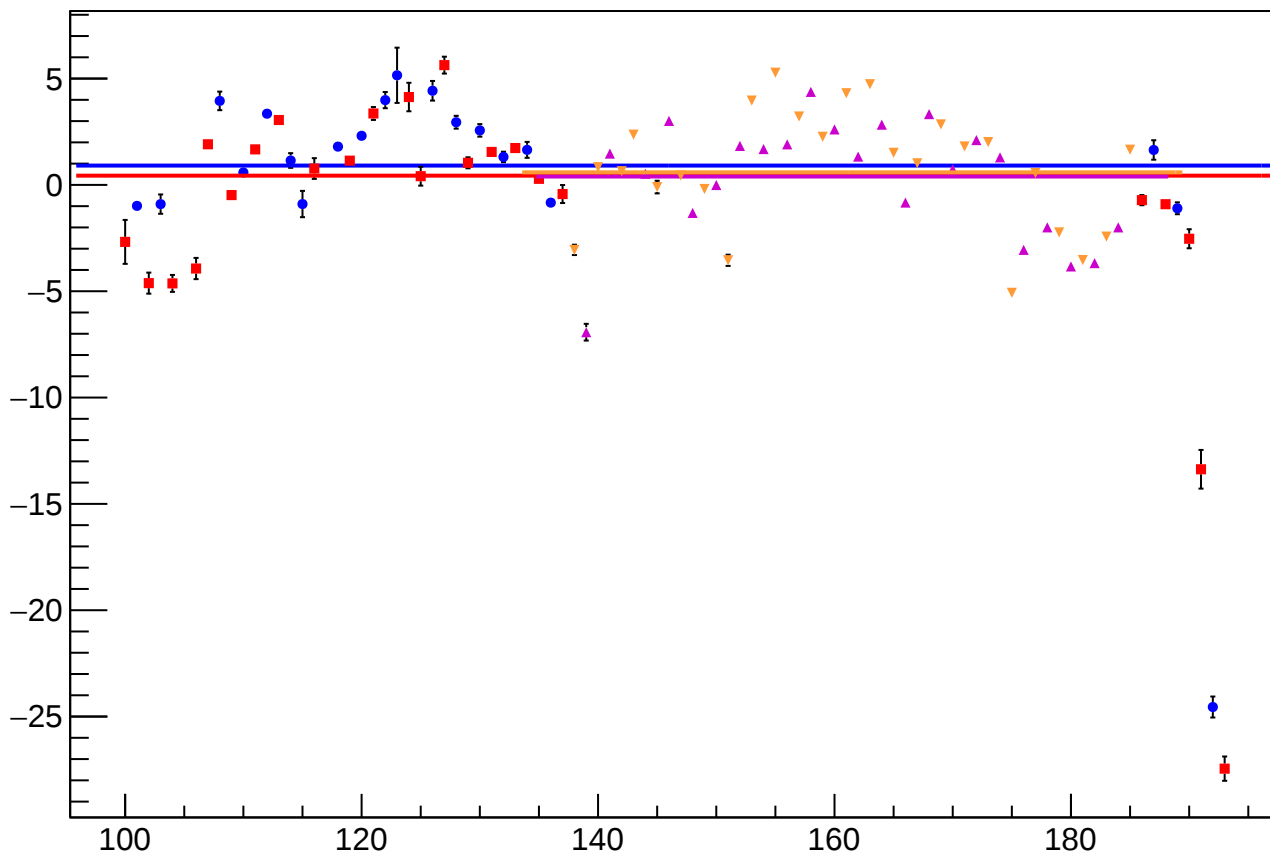
Right: 7.827 ± 0.081 $\chi^2/\text{NDF}: 46205.4/7$

In: -15.882 ± 0.038 $\chi^2/\text{NDF}: 96392.7/25$

Out: -14.591 ± 0.037 $\chi^2/\text{NDF}: 170280.9/29$

All: -15.208 ± 0.027 $\chi^2/\text{NDF}: 267265.4/55$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.909 ± 0.061 $\chi^2/\text{NDF}: 3387.1/19$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.435 ± 0.054 $\chi^2/\text{NDF}: 3791.1/23$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

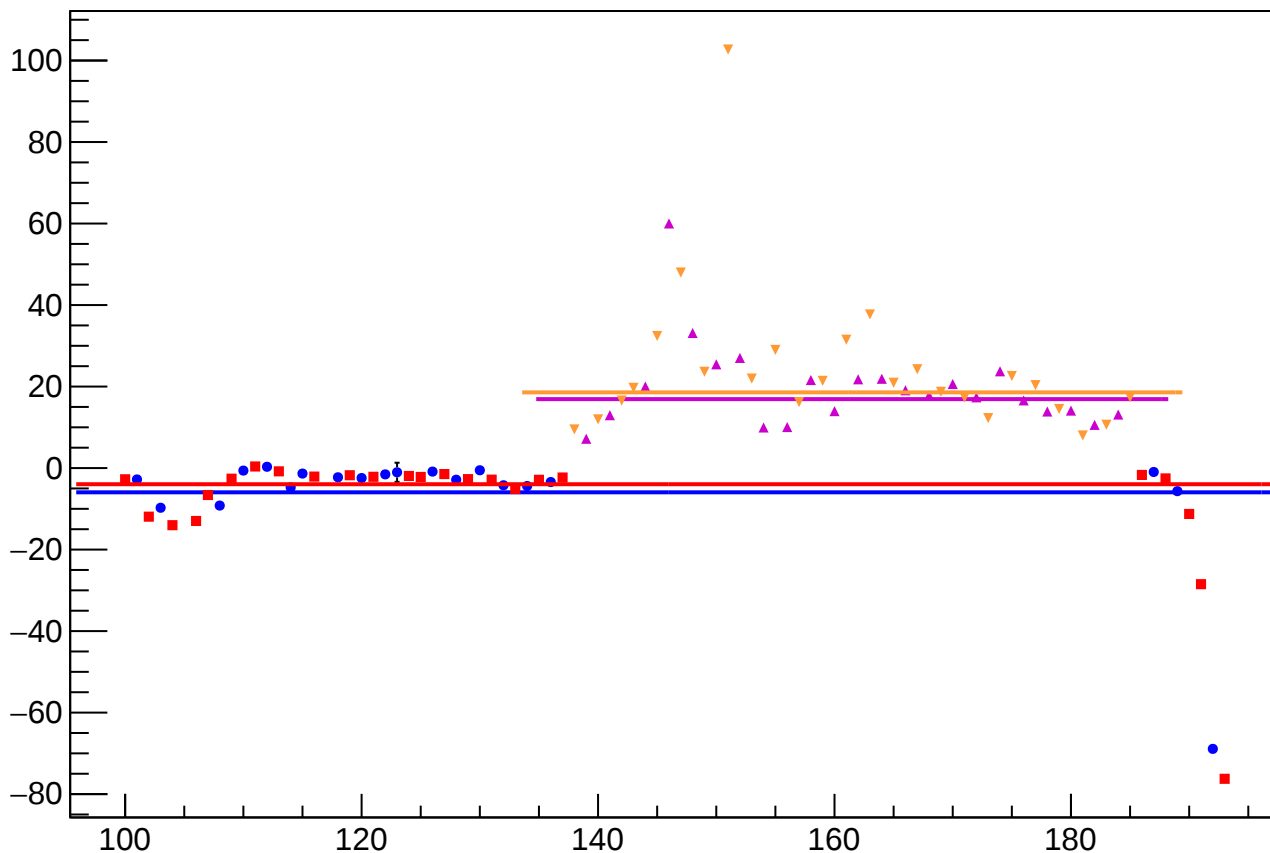
Right: 0.642 ± 0.040 $\chi^2/\text{NDF}: 7211.9/43$

In: 0.503 ± 0.028 $\chi^2/\text{NDF}: 9502.7/42$

Out: 0.548 ± 0.028 $\chi^2/\text{NDF}: 10593.6/48$

All: 0.525 ± 0.020 $\chi^2/\text{NDF}: 20097.6/91$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.948 $\pm$ 0.091 χ^2/NDF : 24563.1/19

Left Out: 18.573 $\pm$ 0.040 χ^2/NDF : 76029.9/24

Right Out: -3.963 $\pm$ 0.060 χ^2/NDF : 24581.7/23

Left In: 16.919 $\pm$ 0.039 χ^2/NDF : 40154.5/22

Left: 17.718 $\pm$ 0.028 χ^2/NDF : 117057.3/47

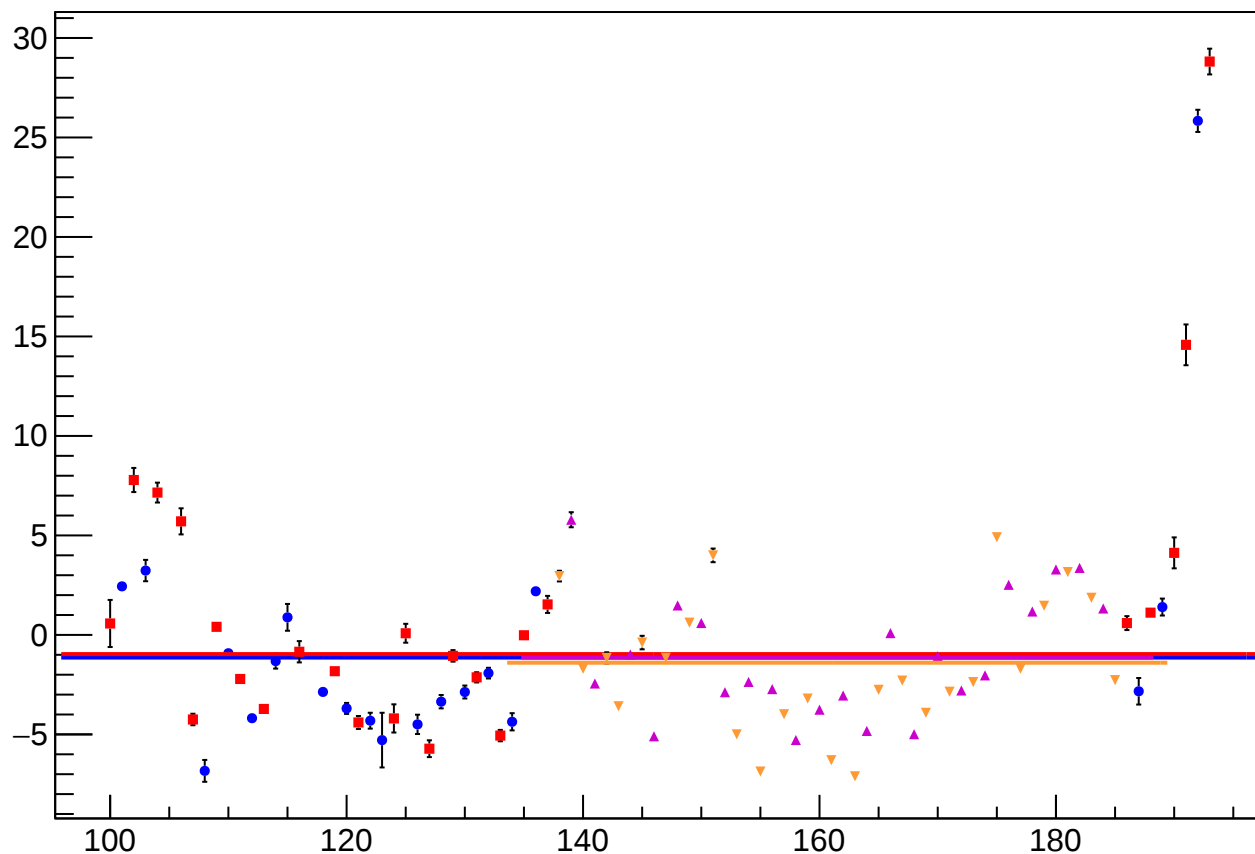
Right: -4.573 $\pm$ 0.050 χ^2/NDF : 49477.4/43

In: 13.359 $\pm$ 0.036 χ^2/NDF : 118487.7/42

Out: 11.634 $\pm$ 0.033 χ^2/NDF : 197090.5/48

All: 12.440 $\pm$ 0.024 χ^2/NDF : 316818.8/91

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.138 ± 0.071 χ^2/NDF : 3624.2/19

Left Out: -1.396 ± 0.037 χ^2/NDF : 7651.5/24

Right Out: -0.964 ± 0.064 χ^2/NDF : 4025.8/23

Left In: -1.135 ± 0.035 χ^2/NDF : 6597.7/22

Left: -1.259 ± 0.025 χ^2/NDF : 14275.6/47

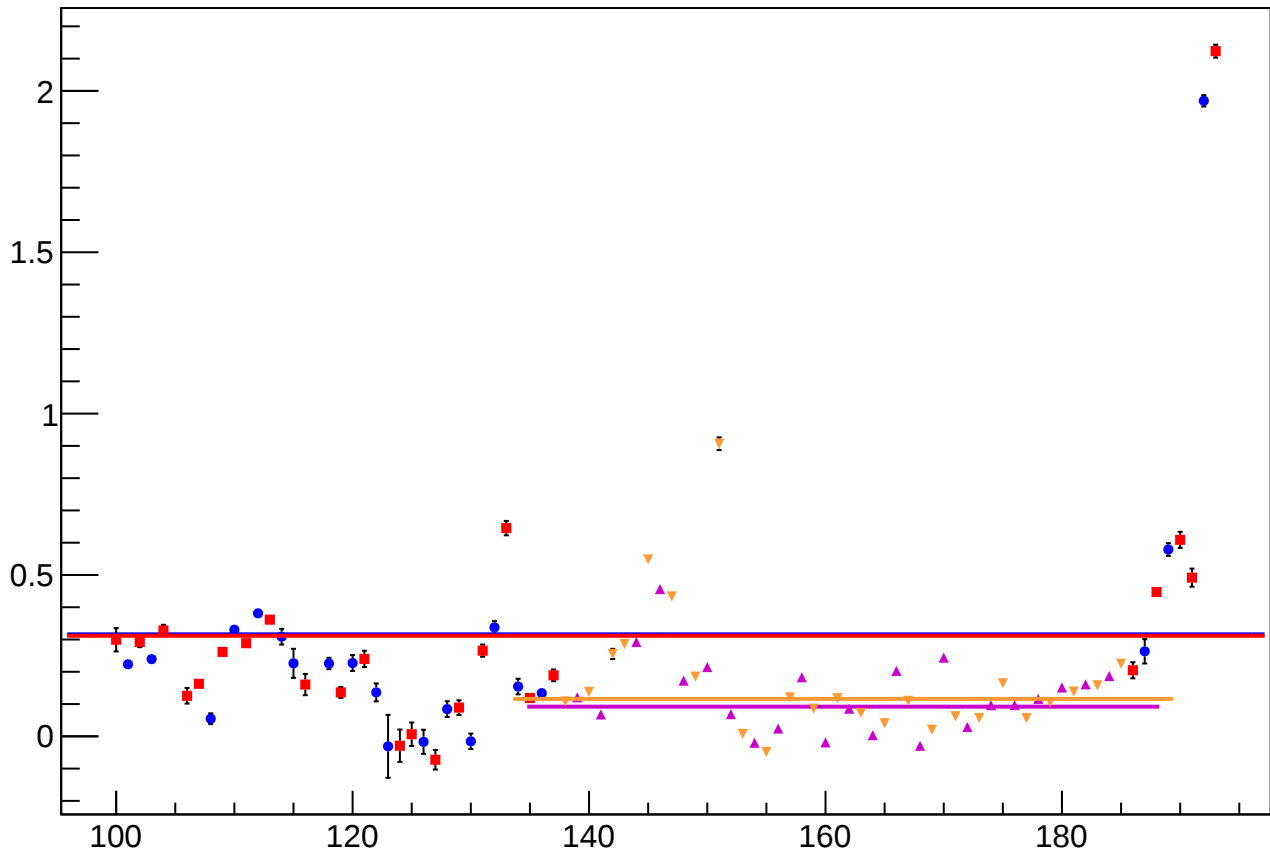
Right: -1.041 ± 0.047 χ^2/NDF : 7653.4/43

In: -1.135 ± 0.032 χ^2/NDF : 10221.9/42

Out: -1.287 ± 0.032 χ^2/NDF : 11712.0/48

All: -1.210 ± 0.022 χ^2/NDF : 21945.4/91

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.004 χ^2 /NDF: 10264.8/19

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.312 $\pm$ 0.004 χ^2 /NDF: 9970.5/23

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

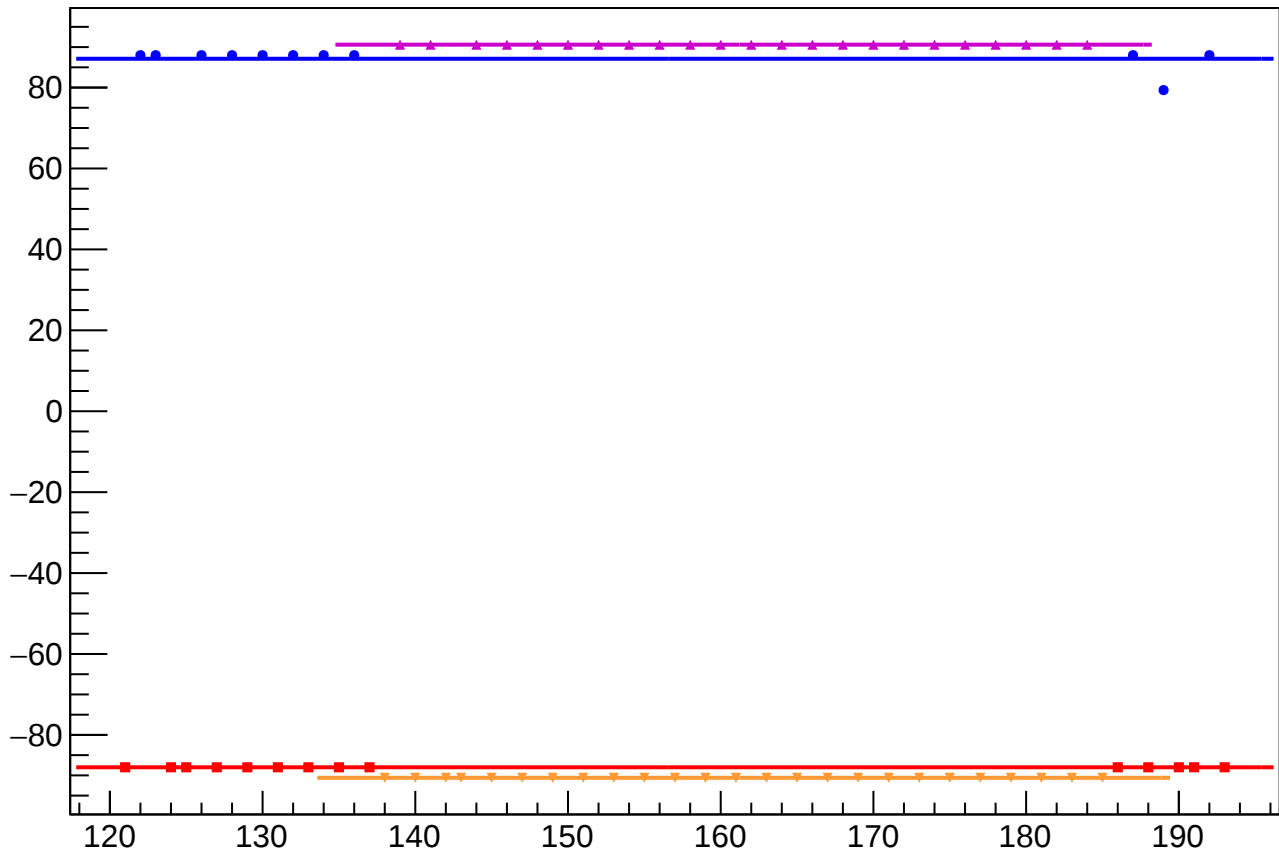
Right: 0.314 $\pm$ 0.003 χ^2 /NDF: 20236.0/43

In: 0.121 $\pm$ 0.001 χ^2 /NDF:16568.5/42

Out: 0.151 $\pm$ 0.001 χ^2 /NDF:16981.3/48

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 33769.4/91

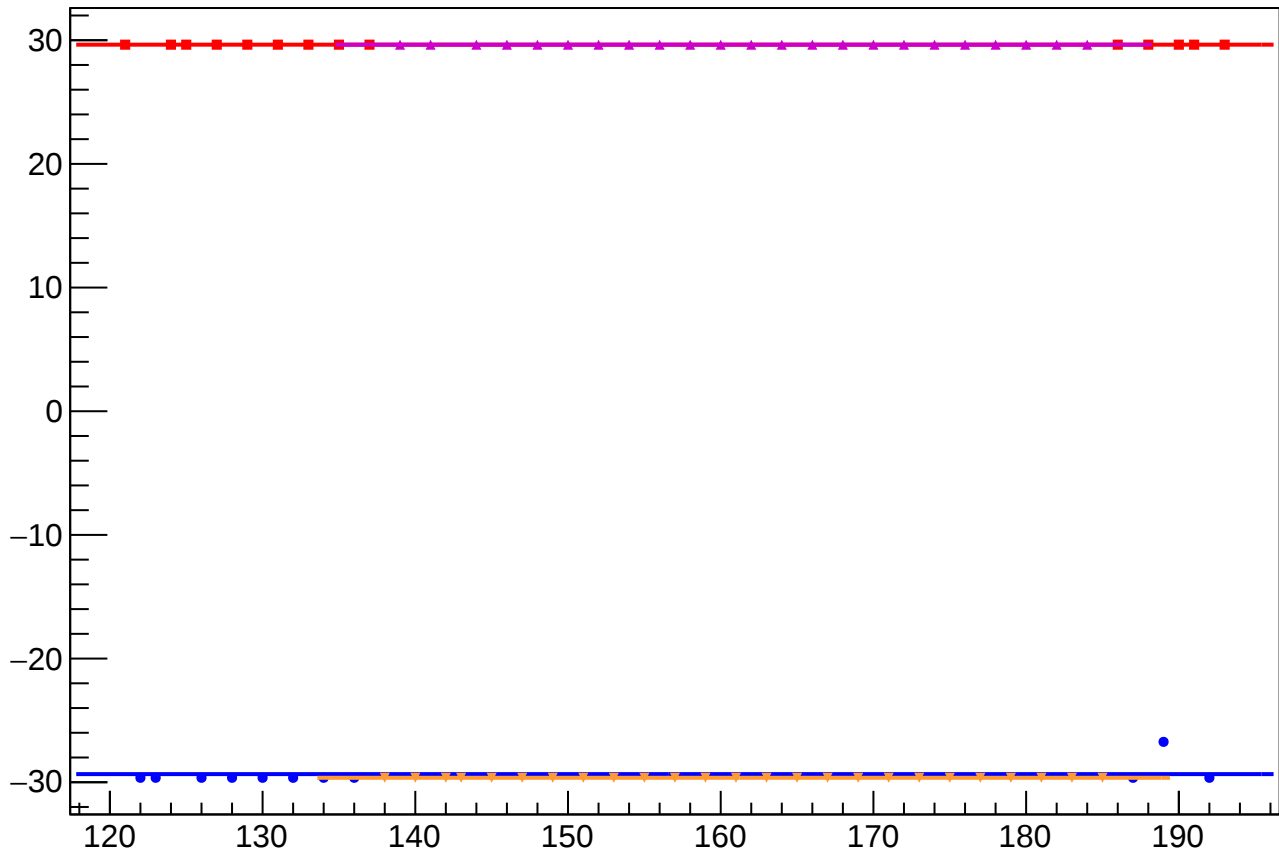
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.117+/-0.000 χ^2/NDF : 3407377860925098239133609625649152.0/10
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 277073.2/13
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
 Right: -7.550+/-0.000 χ^2/NDF : 8259196369709205
 In: 89.848+/-0.000 χ^2/NDF : 814341452161586440
 Out: -89.989+/-0.000 χ^2/NDF : 3028050971405929
 All: -3.570+/-0.000 χ^2/NDF : 3880258252888

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.343+/-0.000

χ^2/NDF : 386567212910206065529992226275328.0/10

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 2.543+/-0.000 χ^2/NDF : 93700629980902942

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 16.919+/-0.000 χ^2/NDF : 135929278810919574

Right Out: 29.641+/-0.000

χ^2/NDF : 575186.9/13

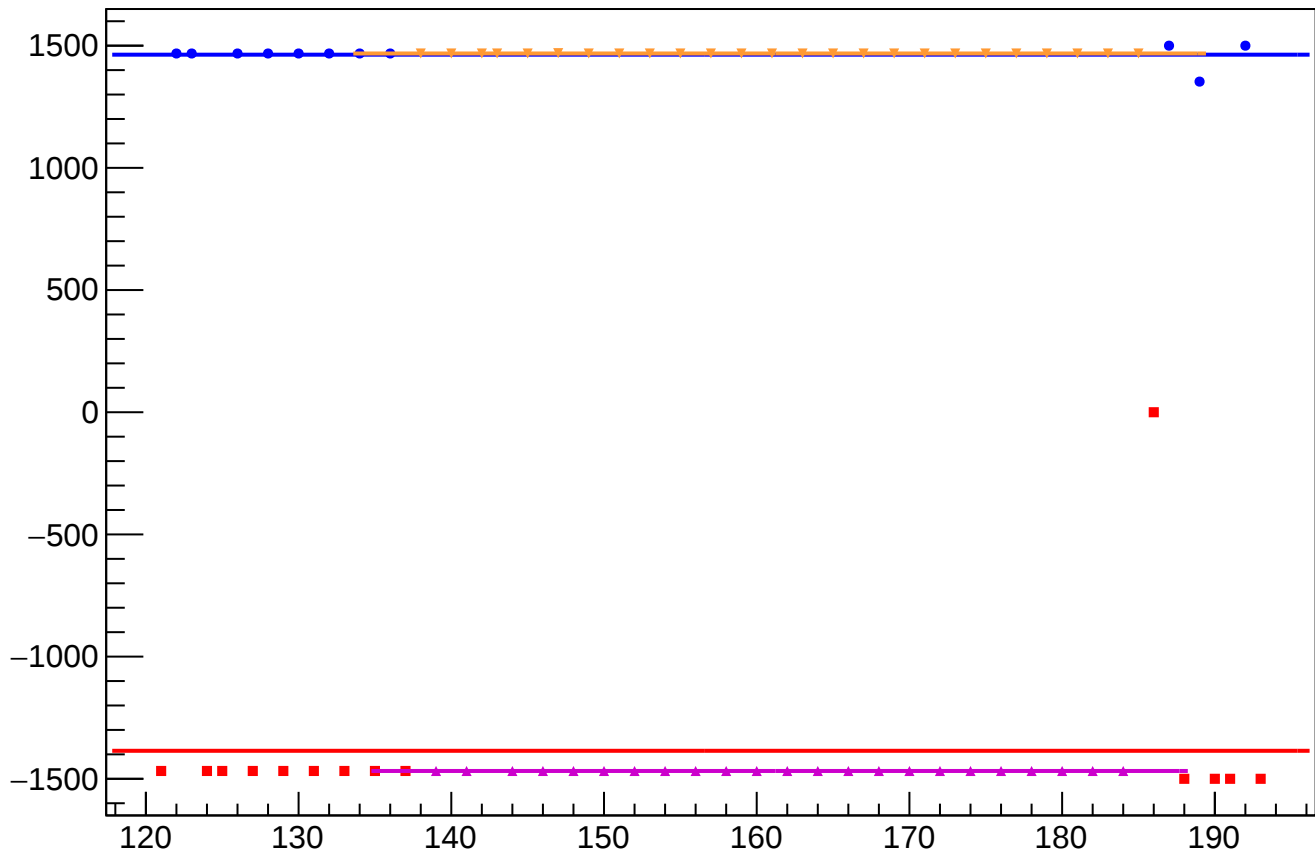
Out: -15.723+/-0.000 χ^2/NDF : 1575880917957078

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: -0.037+/-0.000 χ^2/NDF : 4213173385733

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1463.143 +/- 0.000

χ^2/NDF : 774005490050963320366919457896923136.0/10

Left Out: 1468.048 +/- 0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1385.409 +/- 0.000

χ^2/NDF : 78129200986715192907296921898492887040.0/13

Left In: -1467.994 +/- 0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085 +/- 0.000 χ^2/NDF : 80133946076775322

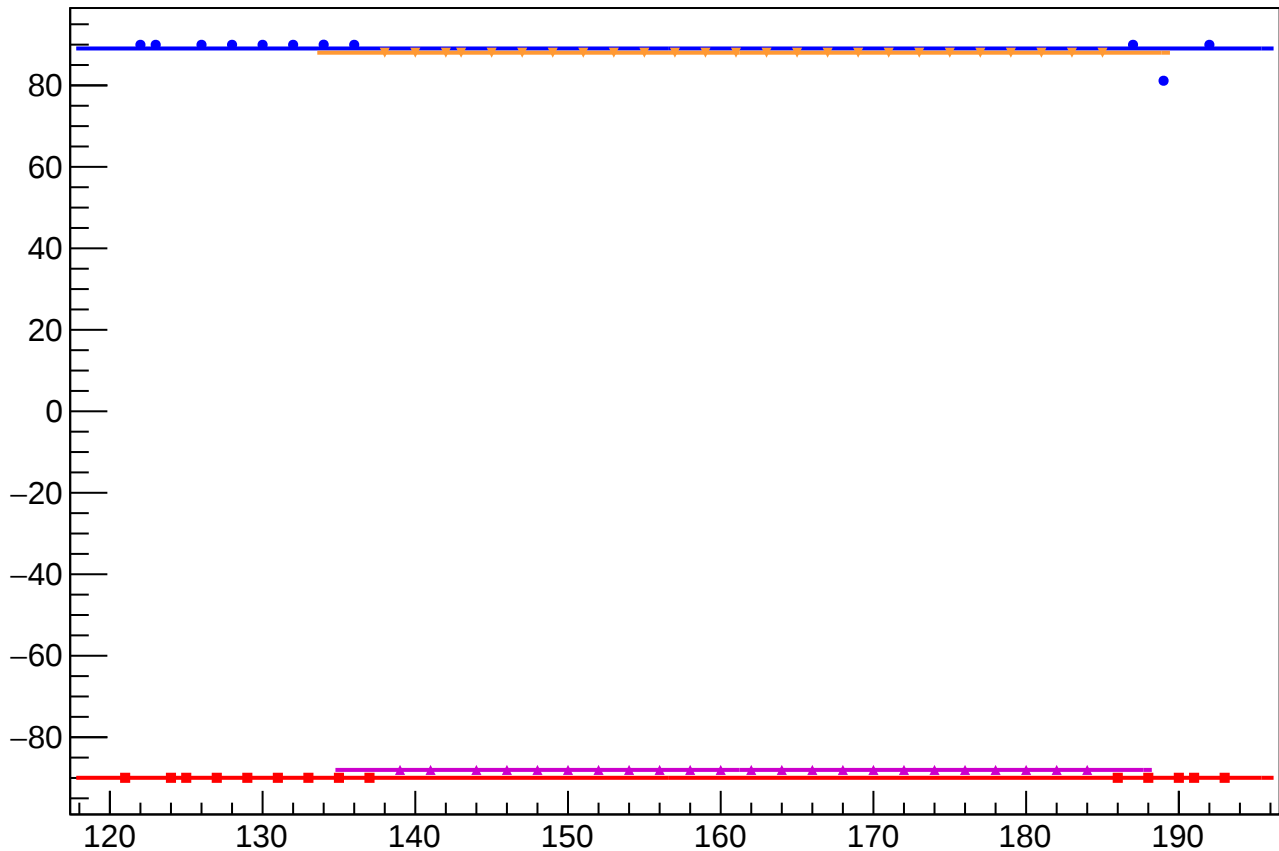
Right: -76.757 +/- 0.000 χ^2/NDF : 226337303629118

In: -835.813 +/- 0.000 χ^2/NDF : 3356572967104712

Out: 798.126 +/- 0.000 χ^2/NDF : 3729274868181158

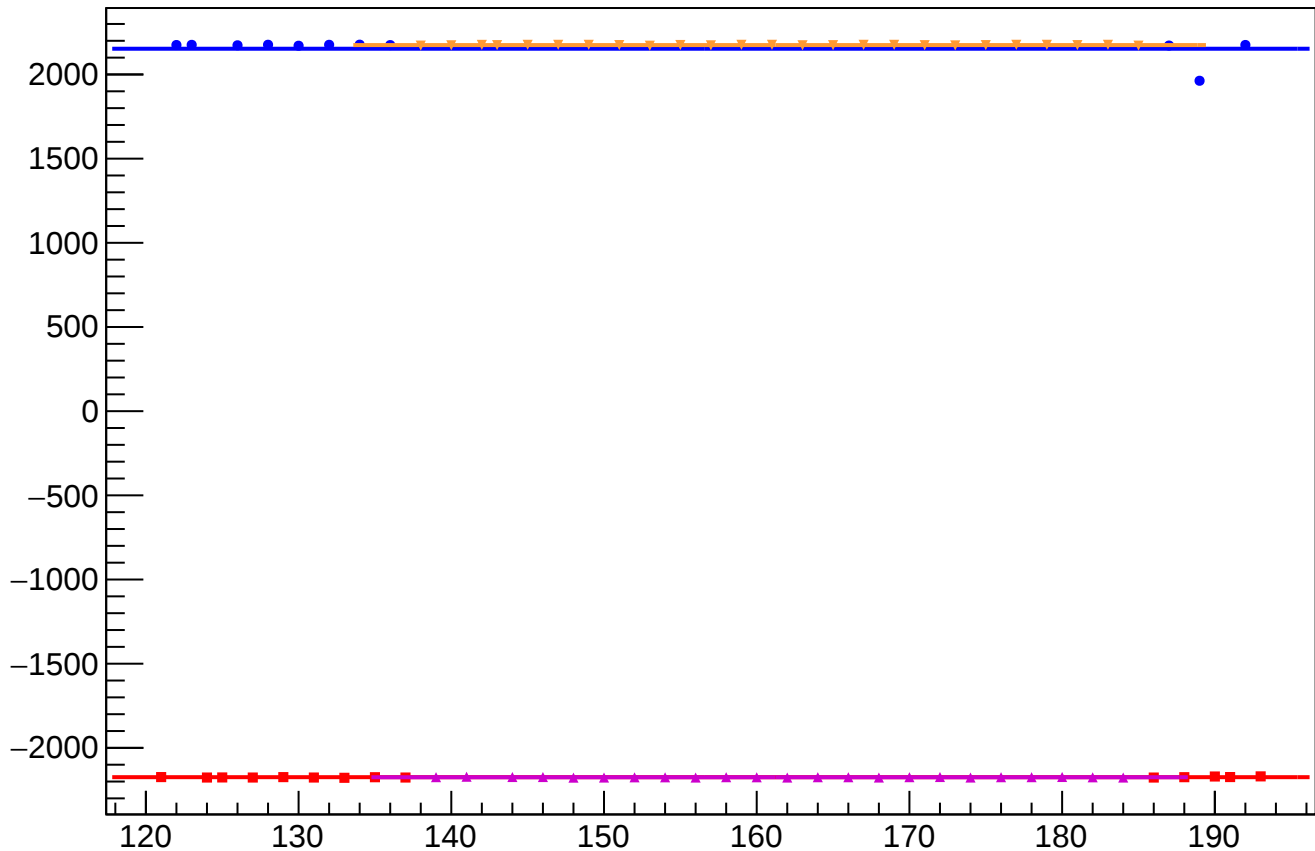
All: 12.951 +/- 0.000 χ^2/NDF : 1028803256841

Phi_FG_mean vs Slug, Sign Corrected



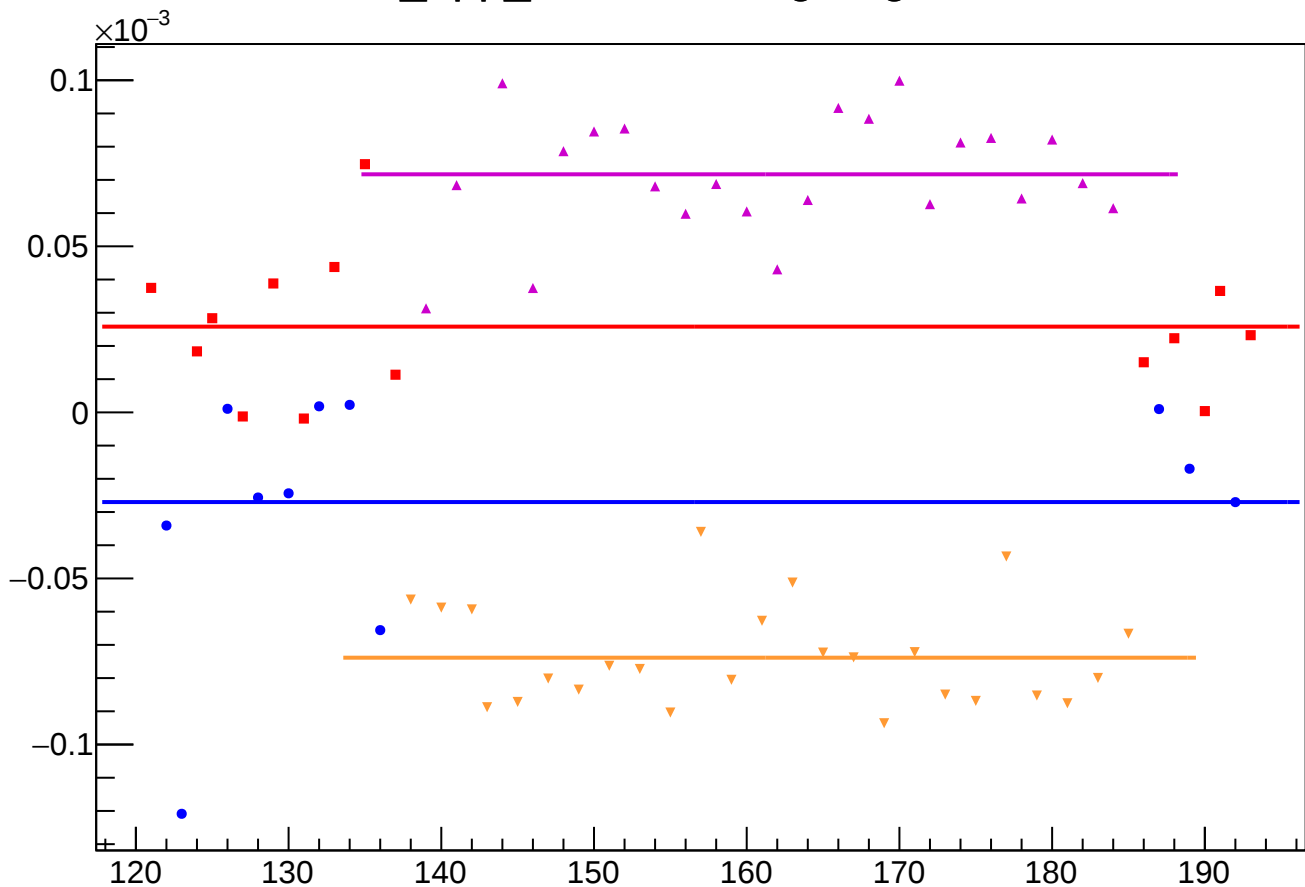
Right In: 89.057+/-0.000	χ^2/NDF : 3562014479714373488729666216787968.0/10	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -7.717+/-0.000	χ^2/NDF : 8631065960503617
Right Out: -89.959+/-0.000	χ^2/NDF : 1847625.8/13	In: -49.829+/-0.000	χ^2/NDF : 12251246727607087
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 46.235+/-0.000	χ^2/NDF : 14204593412060873
		All: 0.073+/-0.000	χ^2/NDF : 37524583648931

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2152.846 $\pm$ 0.000 χ^2 /NDF: 2057593828519138986623970285734330368.0/10
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.088 $\pm$ 0.000 χ^2 /NDF: 3663295044797625403275084405145600.0/13
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: 2.818 $\pm$ 0.000 χ^2 /NDF: 22675839921248.0/48

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000

χ^2/NDF : 269004355878513398513664.0/10

Left: -0.000 ± 0.000

χ^2/NDF : 20702696564433151

Right: 0.000 ± 0.000

χ^2/NDF : 12564716809430173

Left Out: -0.000 ± 0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000 ± 0.000

χ^2/NDF : 4634610399256213960

Right Out: 0.000 ± 0.000

χ^2/NDF : 236403391875454473338880.0/13

Out: -0.000 ± 0.000

χ^2/NDF : 51422027831503724

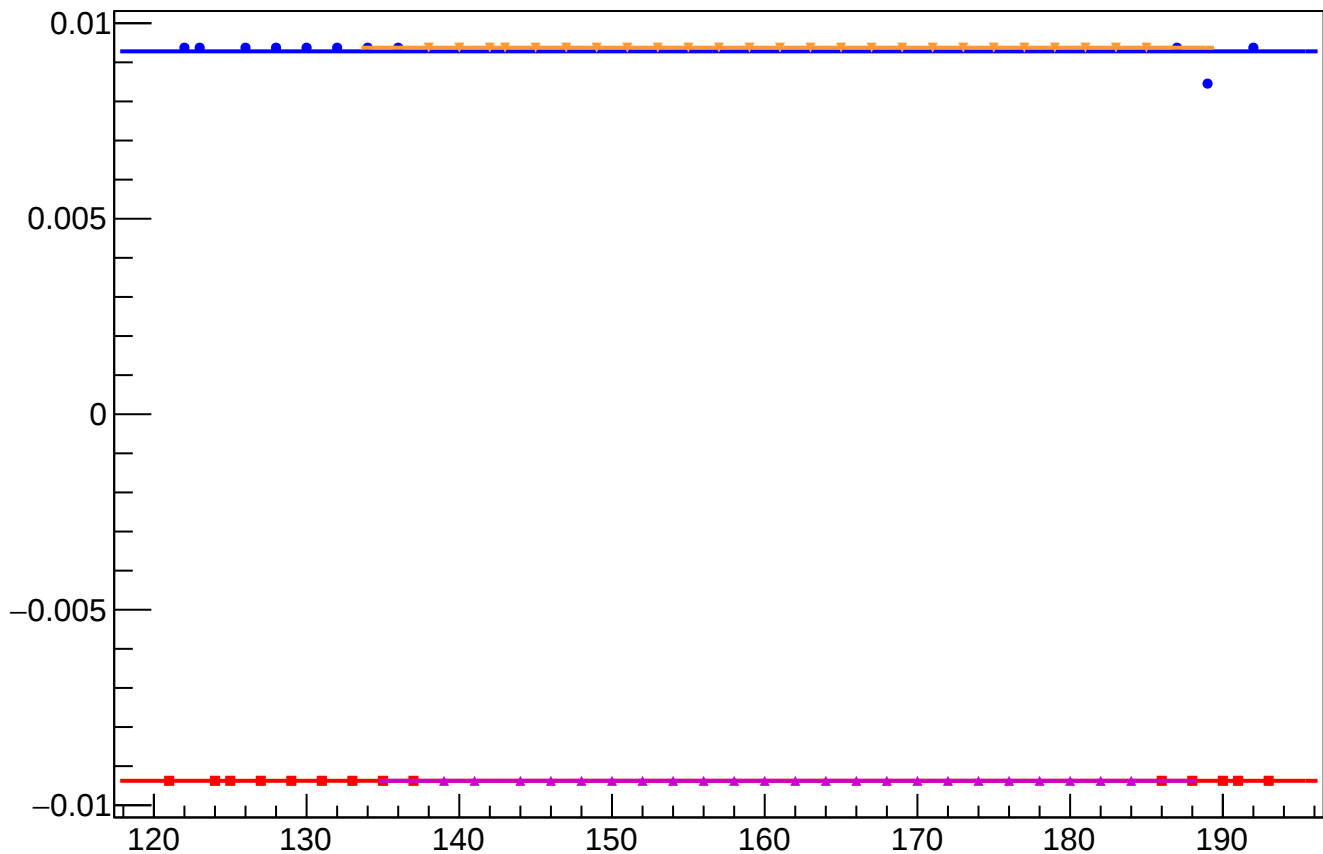
Left In: 0.000 ± 0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000 ± 0.000

χ^2/NDF : 2197677252310

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/13

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 : 9373635472769003

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

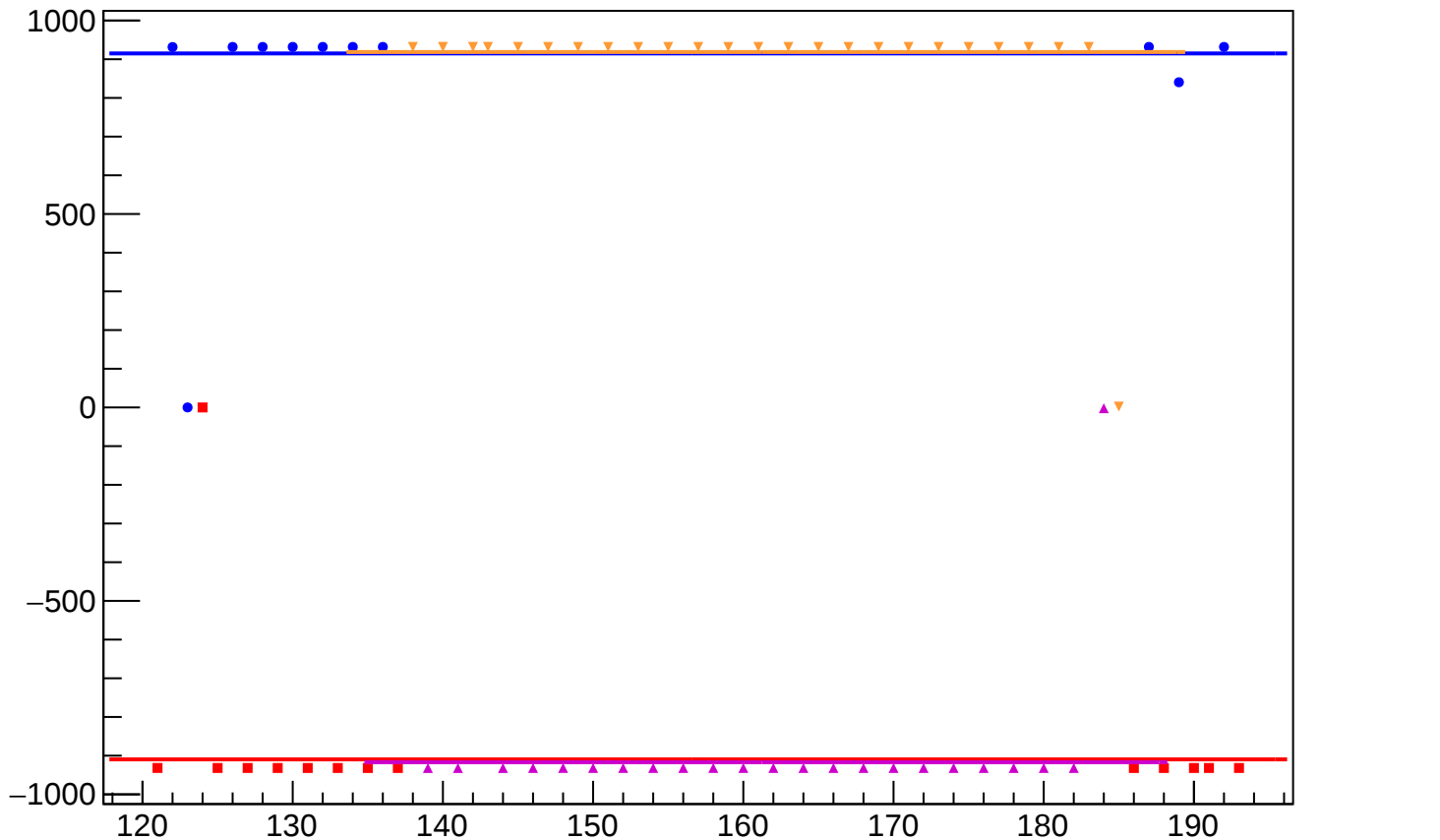
Out: 0.005+/-0.000

χ^2/NDF : 157648174579326559

All: 0.000+/-0.000

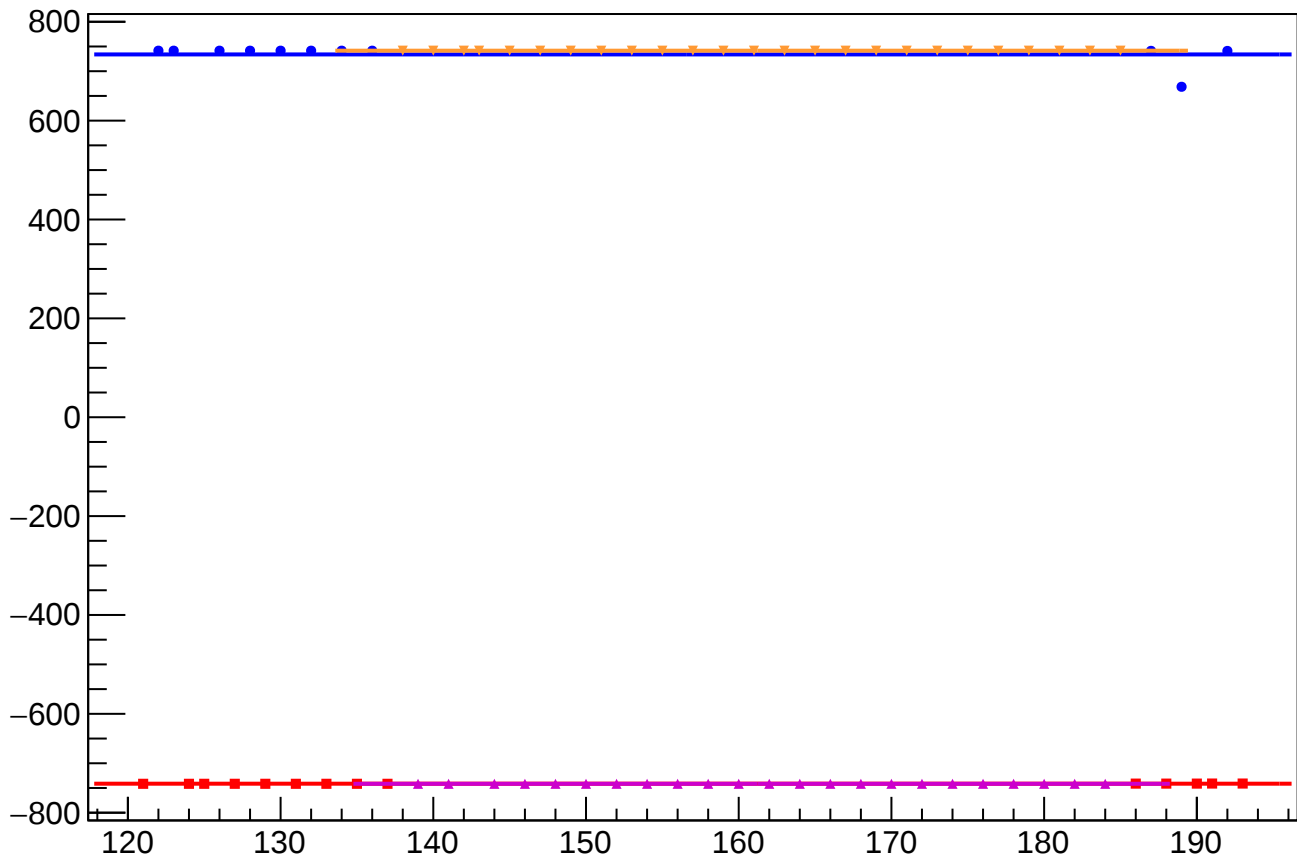
χ^2/NDF : 42147797202094

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



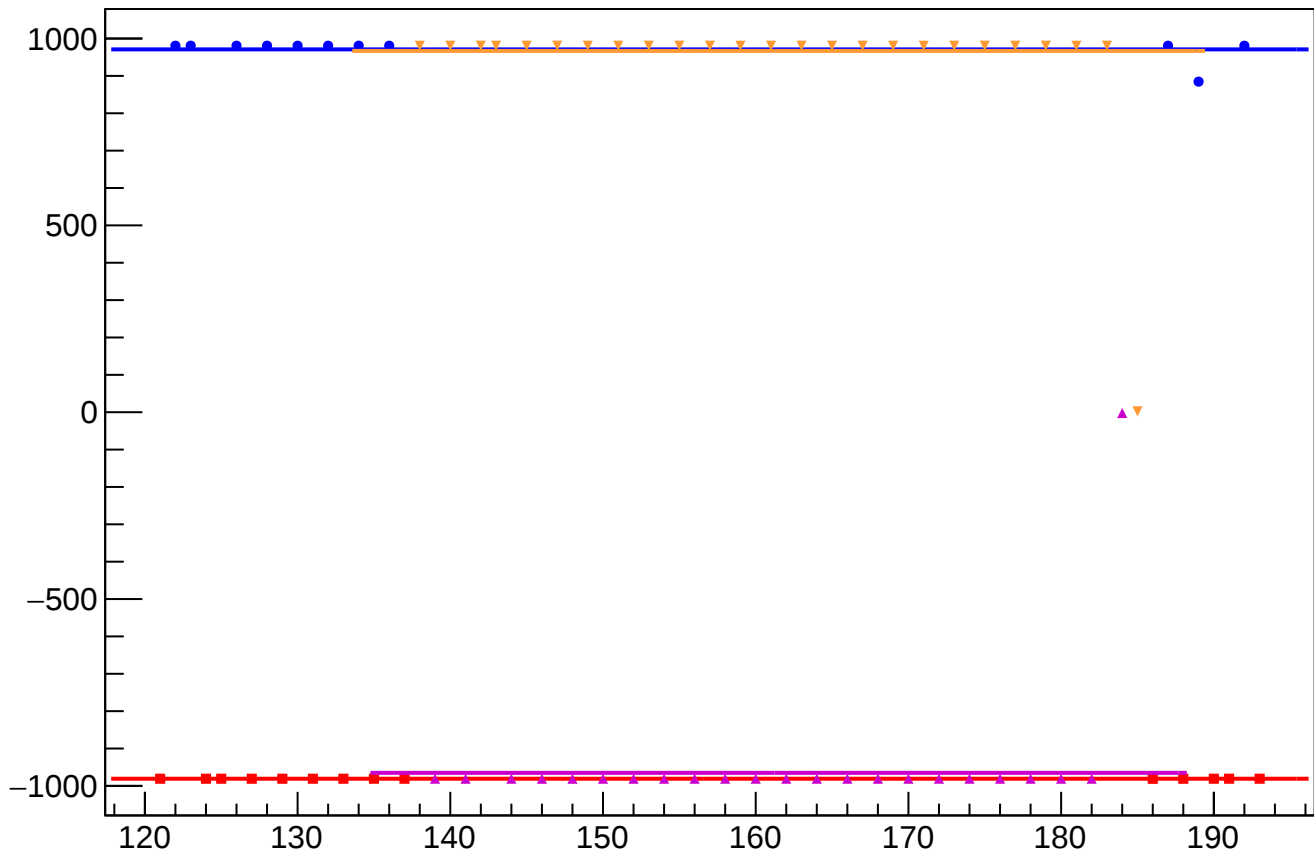
Left: 25.295 +/- 0.000 χ^2/NDF : 31796385721824018
 Right: -71.359 +/- 0.000 χ^2/NDF : 911807133323375
 In: -521.800 +/- 0.000 χ^2/NDF : 1339129242923958
 Out: 489.426 +/- 0.000 χ^2/NDF : 1533647764041972
 All: 3.490 +/- 0.000 χ^2/NDF : 40992878629541

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



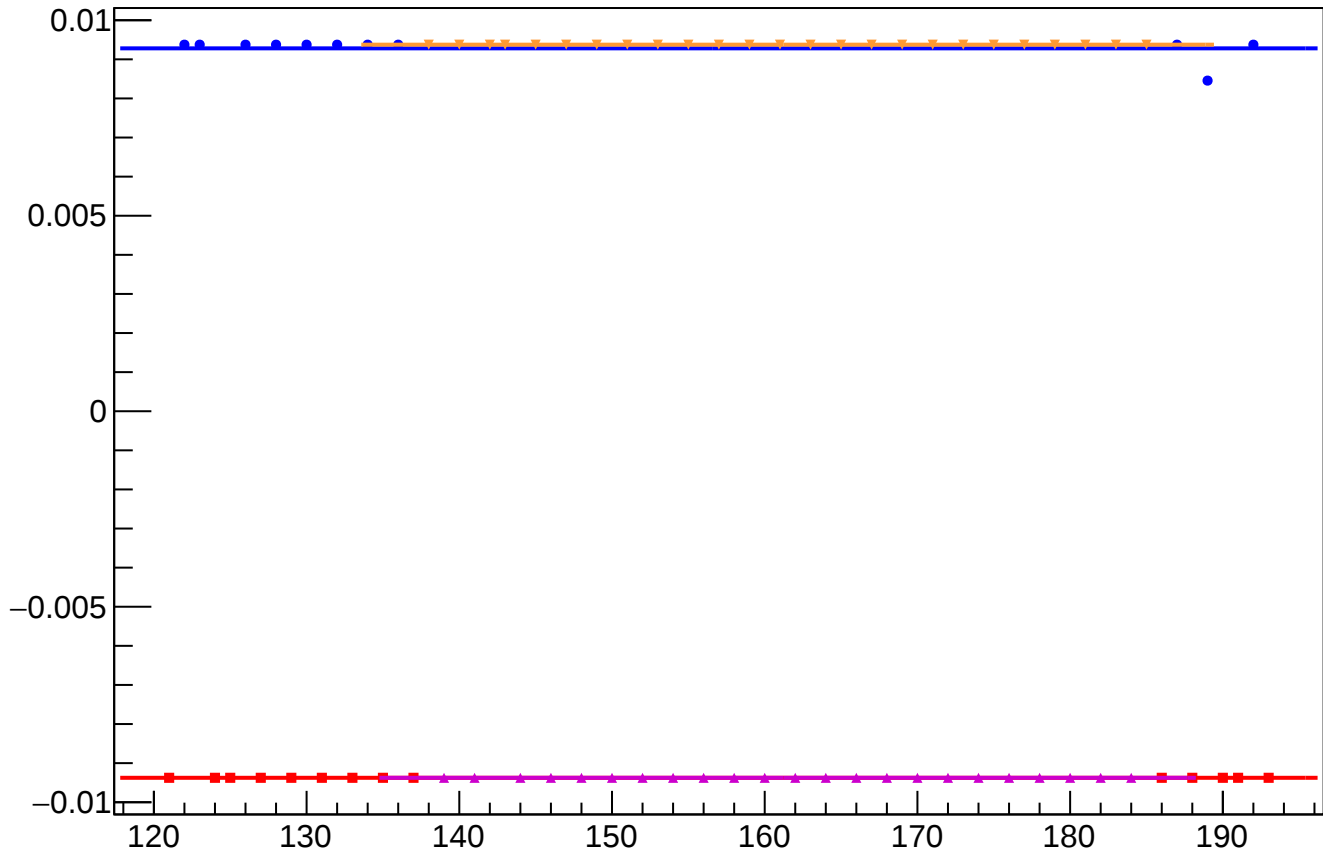
Right In: 733.944 $\pm$ 0.000 χ^2/NDF : 243367117013055334110279787136155648.0/10
 Left Out: 741.513 $\pm$ 0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.336 $\pm$ 0.000 χ^2/NDF : 26754261344059505413894260654080.0/13
 Left In: -741.512 $\pm$ 0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 0.935 $\pm$ 0.000 χ^2/NDF : 26365105454957

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 970.968+/-0.000 χ^2/NDF : 423444567912434199331361627679227904.0/10
 Left Out: 966.936+/-0.000 χ^2/NDF : 25485578616543458629432284645183979520.0/24
 Right Out: -980.837+/-0.000 χ^2/NDF : 2175586177642039985104677240832.0/13
 Left In: -965.102+/-0.000 χ^2/NDF : 27330319430012441419356351914146004992.0/22
 All: 1.627+/-0.000 χ^2/NDF : 45590757235364

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/13

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 : 9373635472769003

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

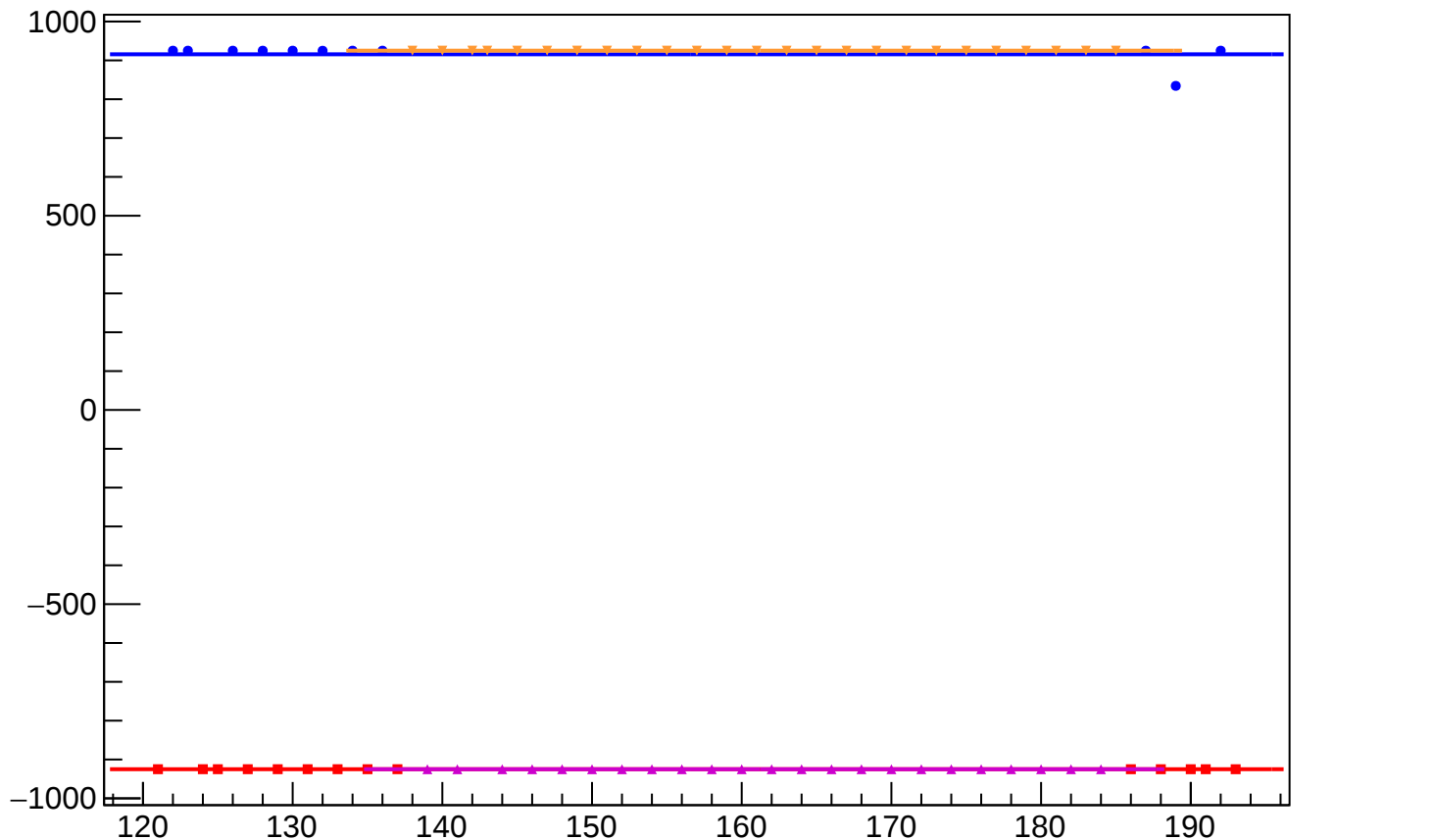
Out: 0.005+/-0.000

χ^2/NDF : 157648174579326559

All: 0.000+/-0.000

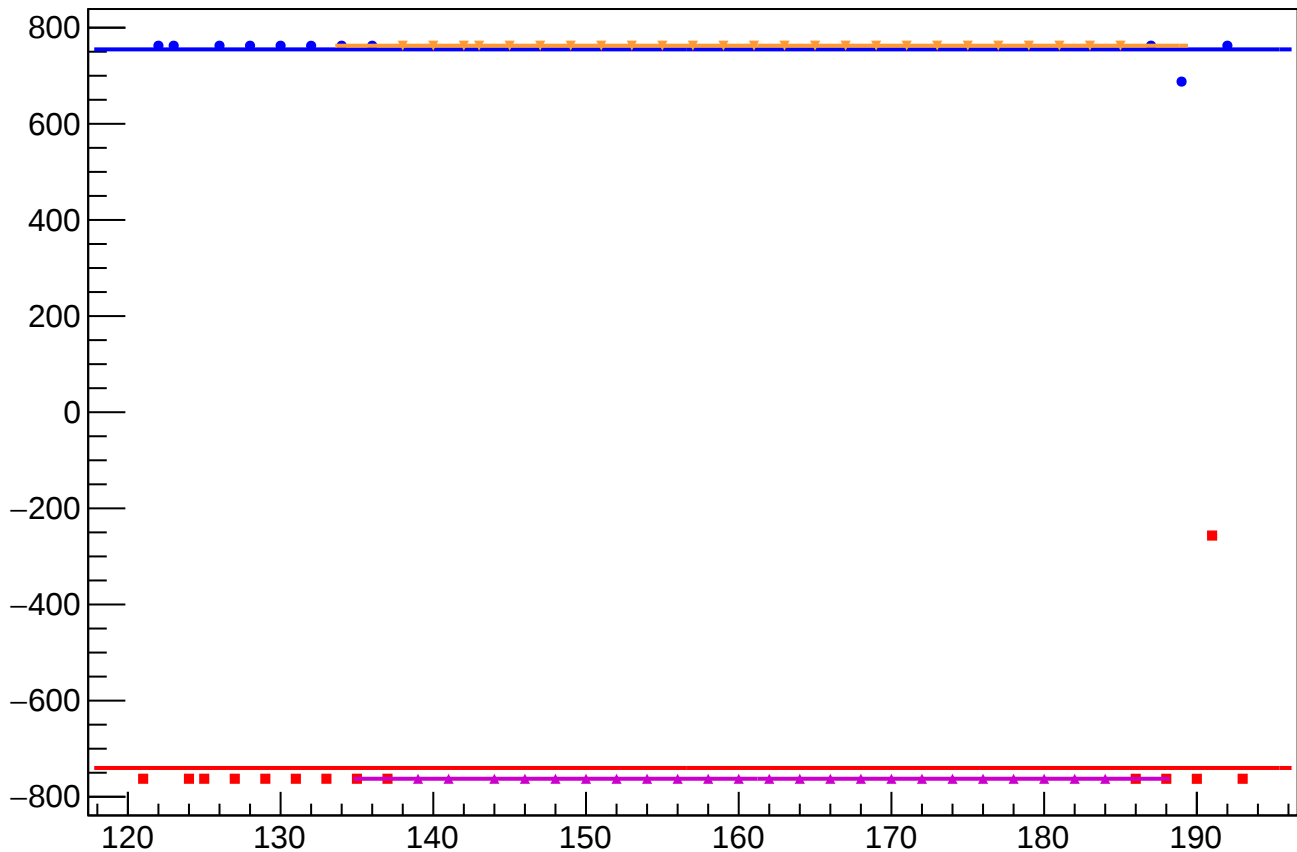
χ^2/NDF : 42147797202094

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 915.676+/-0.000 χ^2/NDF : 375884890430723301501999086619852800.0/10
 Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24
 Right Out: -924.985+/-0.000 χ^2/NDF : 624315463497637478698911268864.0/13
 Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22
 All: 1.153+/-0.000 χ^2/NDF : 41029662424189

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 754.848+/-0.000 χ^2/NDF : 255335025612225496360523797039677440.0/10

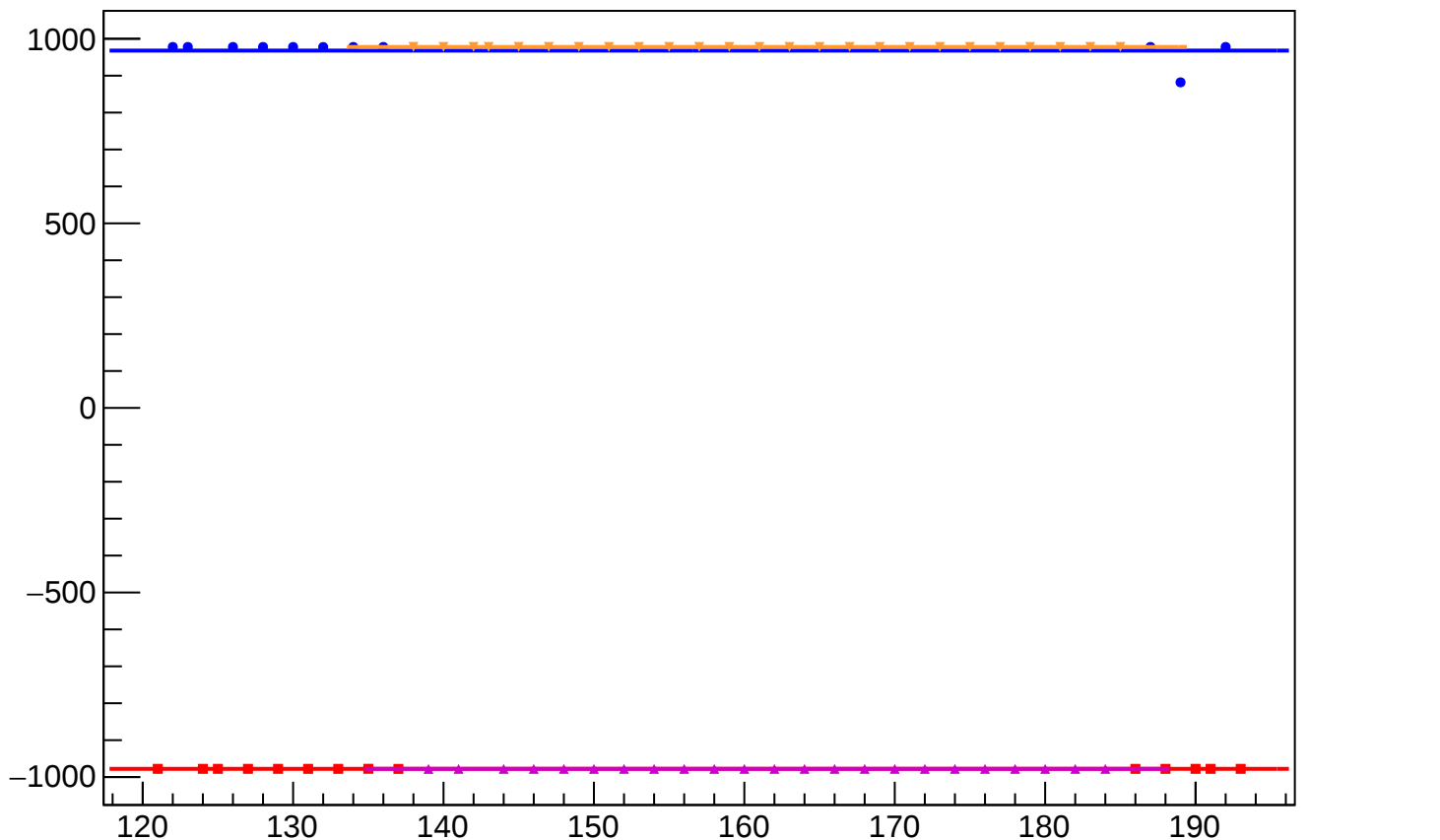
Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -740.080+/-0.000 χ^2/NDF : 6361038039679573254761466845456236544.0/13

Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22

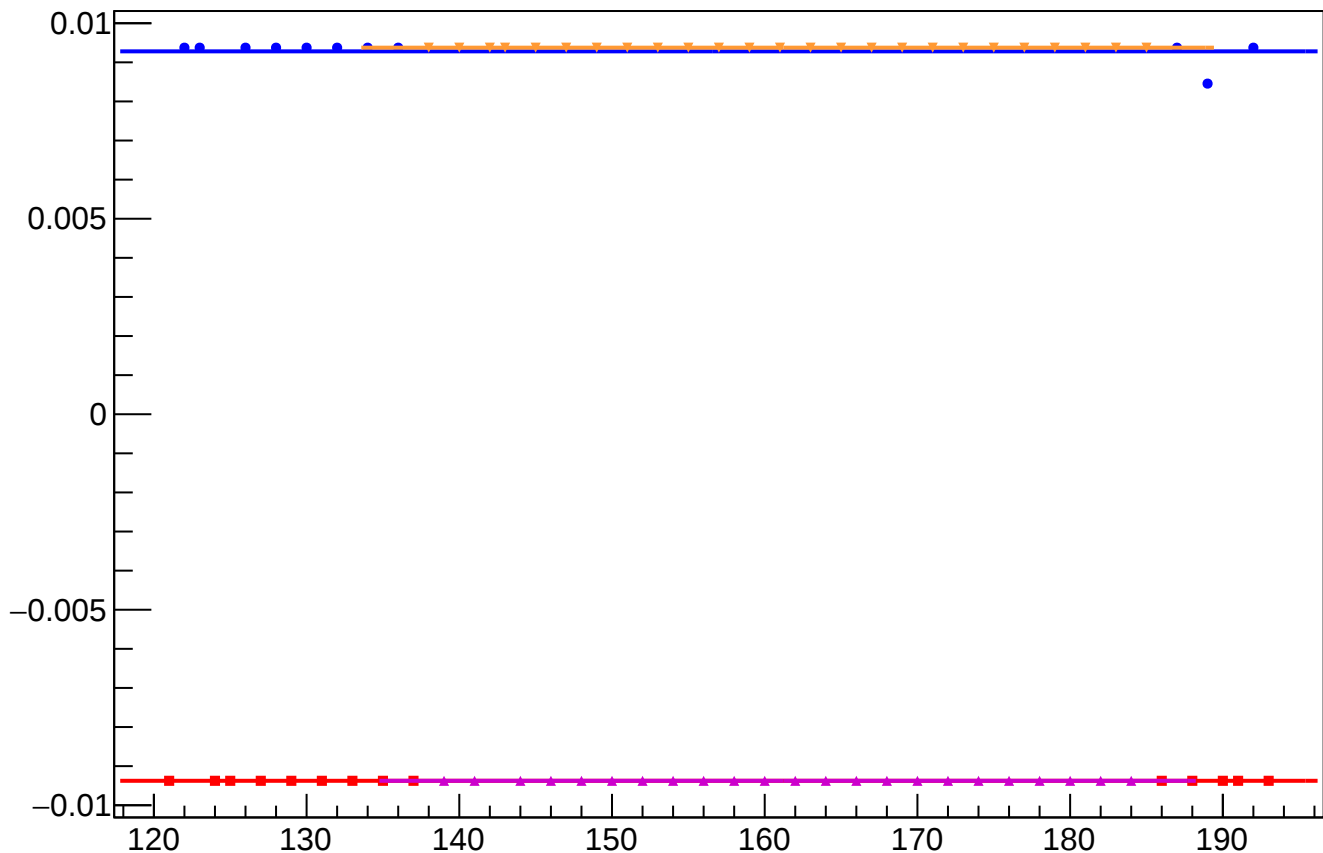
All: 3.687+/-0.000 χ^2/NDF : 27747908155114

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 967.936 +/- 0.000 χ^2/NDF : 420393013582034299669496529428676608.0/10
 Left Out: 977.738 +/- 0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.753 +/- 0.000 χ^2/NDF : 1041825189461183048821596225536.0/13
 Left In: -977.735 +/- 0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 1.222 +/- 0.000 χ^2/NDF : 45843636300390

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/13

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 : 9373635472769003

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

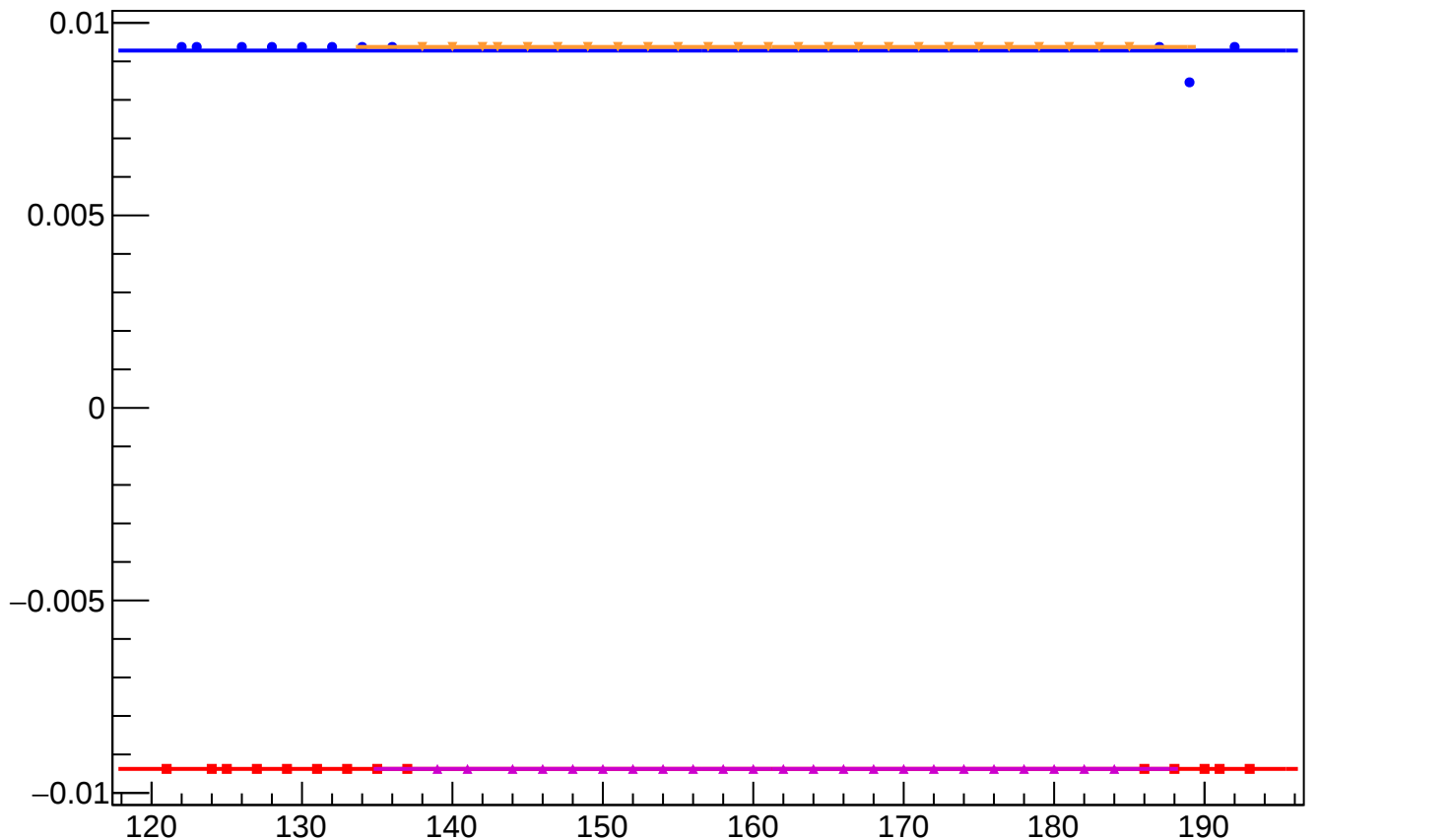
Out: 0.005+/-0.000

χ^2/NDF : 157648174579326559

All: 0.000+/-0.000

χ^2/NDF : 42147797202094

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 38671459736002300922036224.0/10

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/13

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 : 9373635472769003

In: -0.005+/-0.000

χ^2/NDF : 135981103852730670

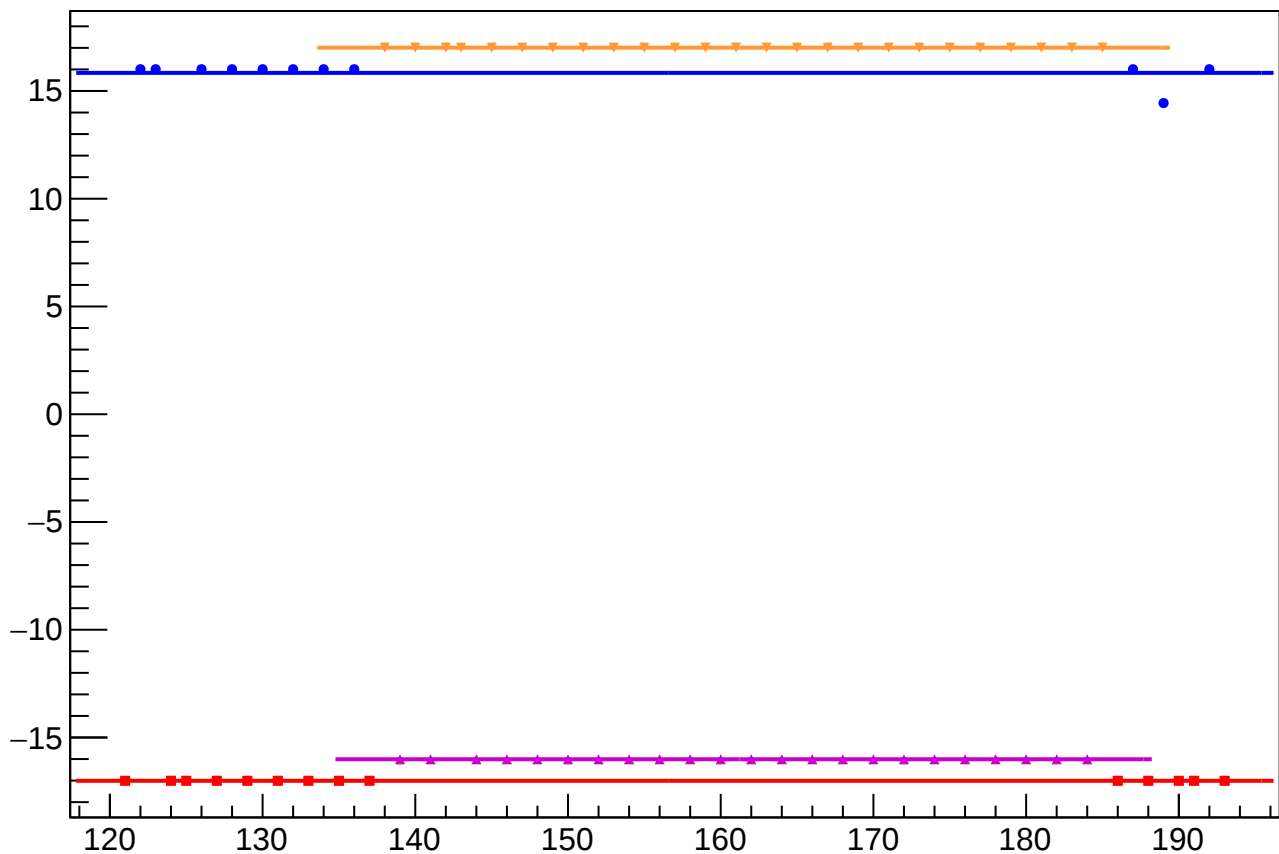
Out: 0.005+/-0.000

χ^2/NDF : 157648174579326559

All: 0.000+/-0.000

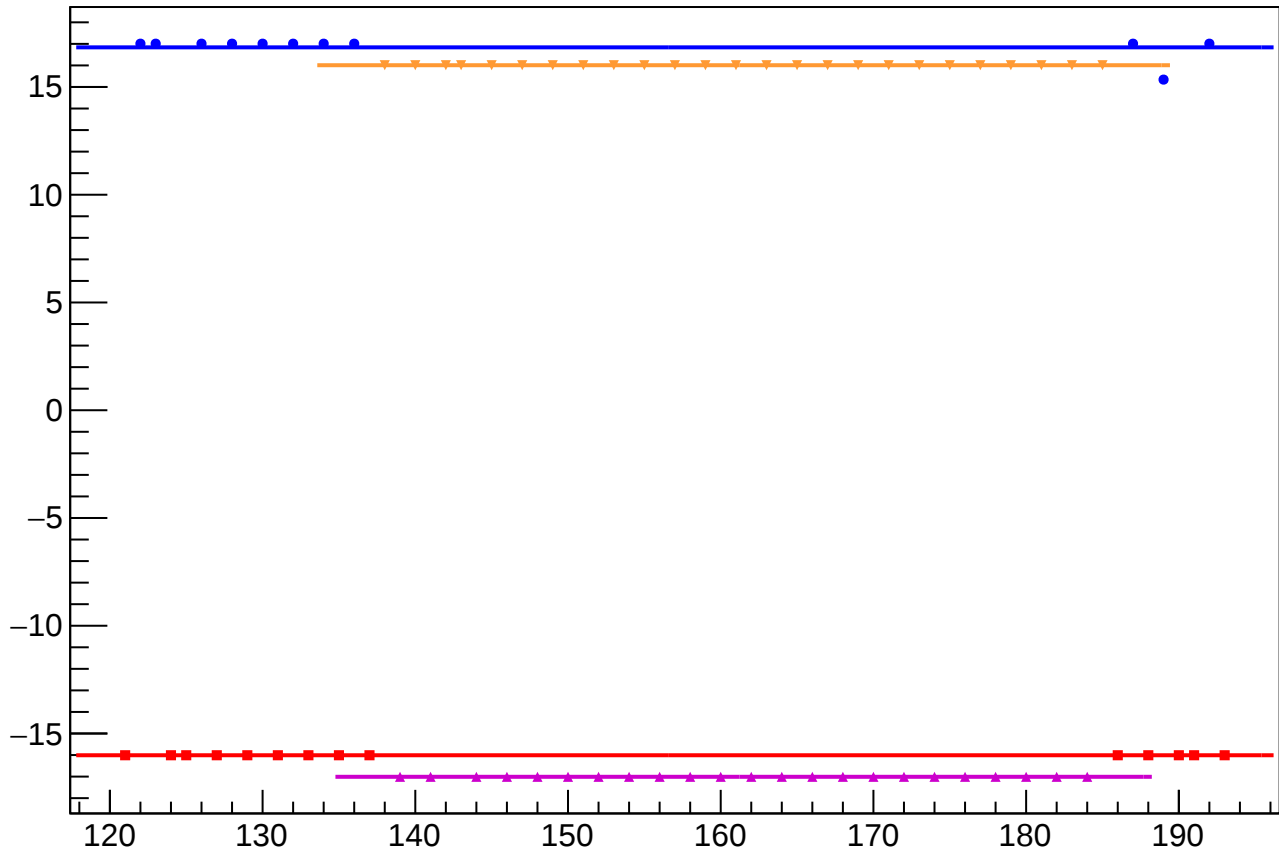
χ^2/NDF : 42147797202094

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



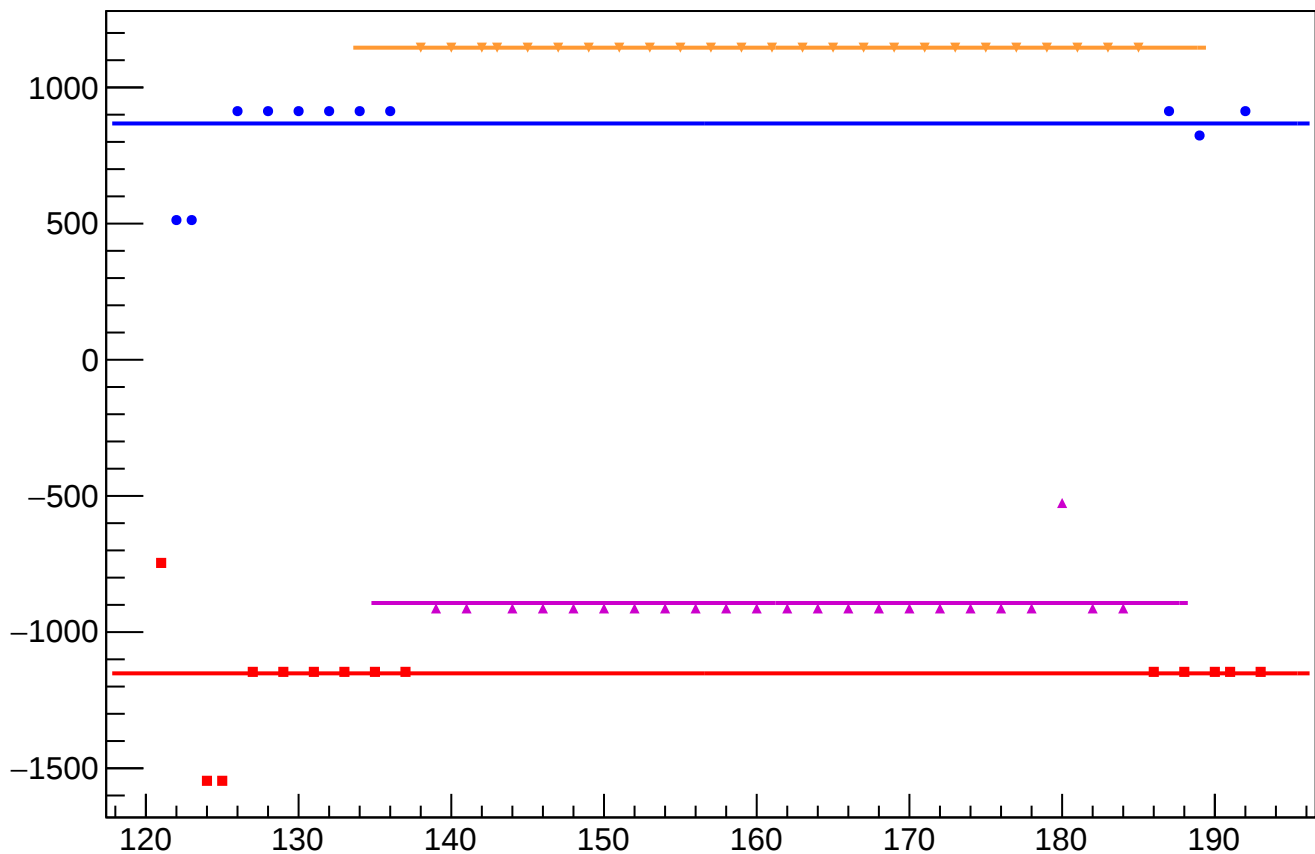
Right In: 15.840 ± 0.000 $\chi^2/\text{NDF}: 112062081465969324770608831004672.0/10$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 12201155437601024972423168.0/13$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.229 ± 0.000 $\chi^2/\text{NDF}: 12280982066002.0/100$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



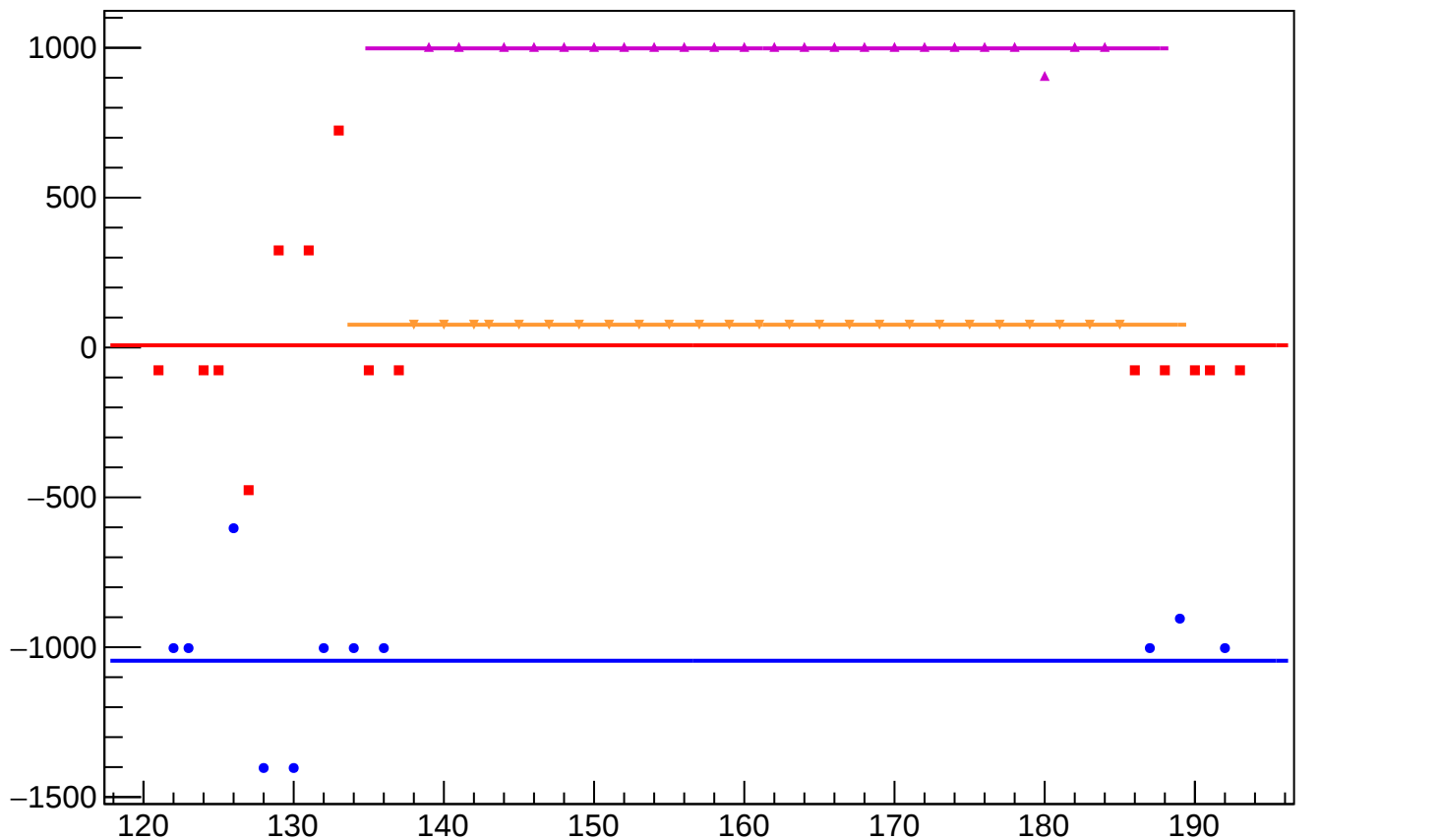
Right In: 16.839 $\pm$ 0.000 χ^2 /NDF: 127298921703587428491418606239744.0/10
 Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89740.8/24
 Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 144771.8/13
 Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22
 Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 994312337700629058
 Right: -0.919 $\pm$ 0.000 χ^2 /NDF: 2906063588751156
 In: -9.564 $\pm$ 0.000 χ^2 /NDF: 445177405650196535
 Out: 8.419 $\pm$ 0.000 χ^2 /NDF: 458352478861436037
 All: -0.178 $\pm$ 0.000 χ^2 /NDF: 1285690944088

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 867.682 ± 0.000 $\chi^2/\text{NDF}: 6586179989374299032475669534202658816.0/10$
 Left Out: 1146.011 ± 0.000 $\chi^2/\text{NDF}: 8041760976861450519237885952.0/24$
 Right Out: -1151.471 ± 0.000 $\chi^2/\text{NDF}: 13743186868547509899221252961315323904.0/13$
 Left In: -893.116 ± 0.000 $\chi^2/\text{NDF}: 13219826761707982974212661987208331264.0/22$
 All: 68.427 ± 0.000 $\chi^2/\text{NDF}: 5115989211515$

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1045.128+/-0.000 χ^2/NDF : 22808502133777497764487577913993986048.0/10
 Left Out: 76.011+/-0.000 χ^2/NDF : 11003263624957134120836661248.0/24
 Right Out: 7.266+/-0.000 χ^2/NDF : 42975808960564530684770385299511443456.0/13
 Left In: 998.020+/-0.000 χ^2/NDF : 826231736084035689068445378231140352.0/22
 All: 298.934+/-0.000 χ^2/NDF : 199609134112