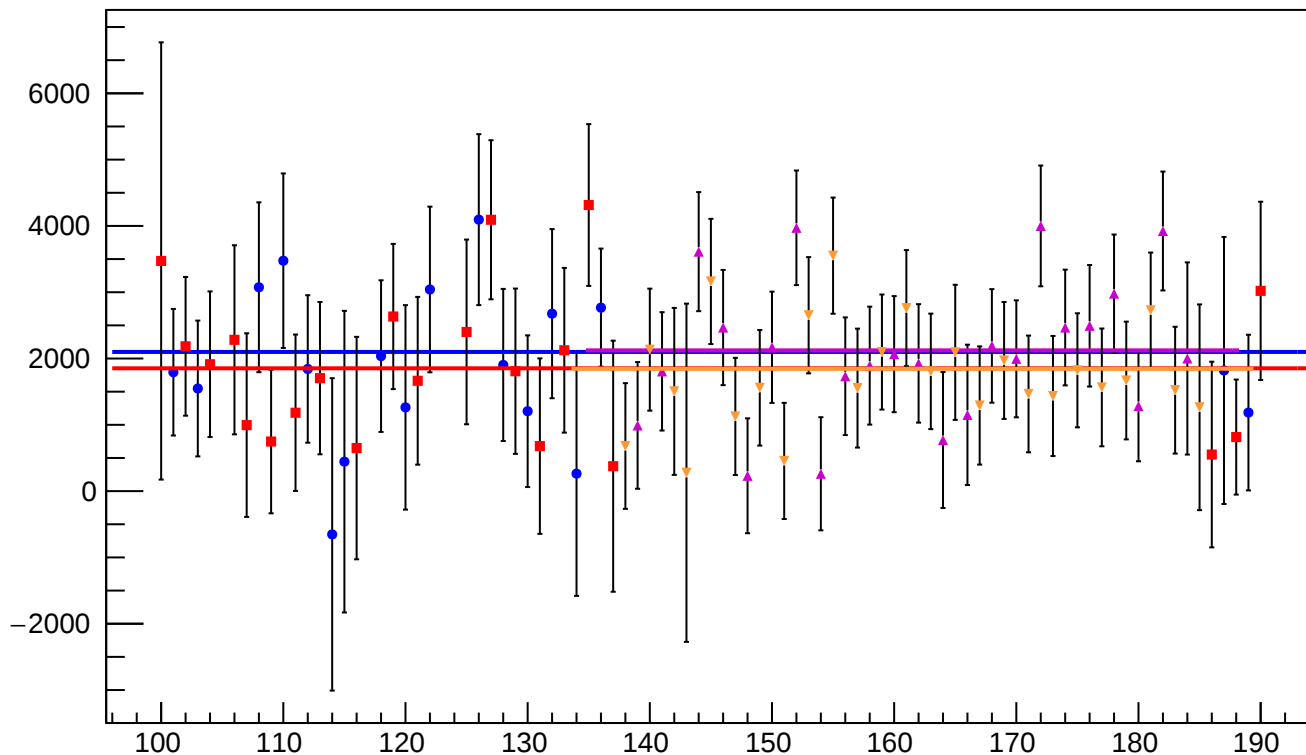


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2099.413+/-294.712

Left Out: 1845.799+/-186.902

Right Out: 1852.727+/-273.111

Left In: 2123.138+/-188.684

χ^2/NDF : 10.3/17

χ^2/NDF : 15.5/24

χ^2/NDF : 15.5/20

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1966.700+/-200.320

In: 2116.241+/-158.906

Out: 1848.009+/-154.242

All: 1978.130+/-110.678

χ^2/NDF : 48.6/47

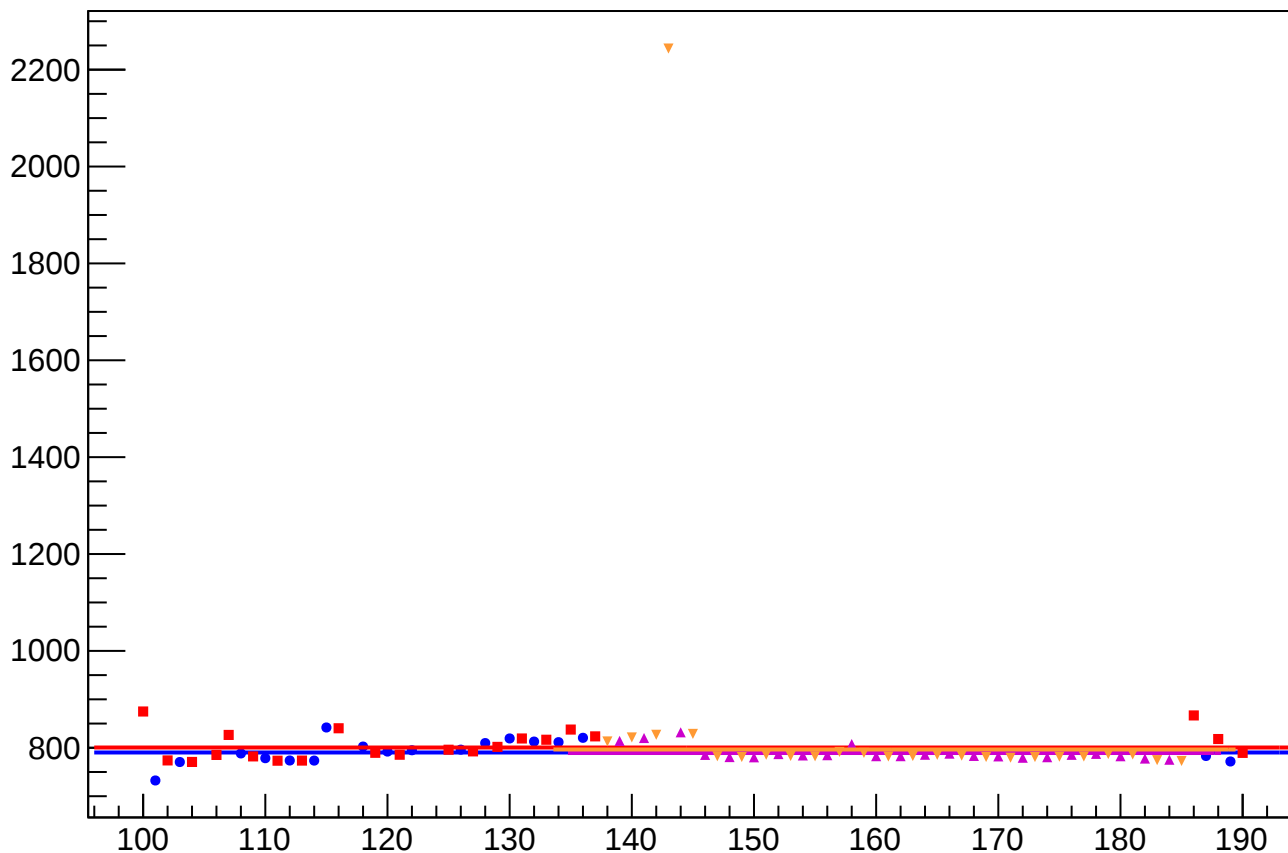
χ^2/NDF : 26.1/38

χ^2/NDF : 42.3/40

χ^2/NDF : 30.9/45

χ^2/NDF : 74.7/86

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 790.276 $\pm$ 0.208 χ^2 /NDF: 15691.6/17

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

Right Out: 800.541 $\pm$ 0.193 χ^2 /NDF: 17468.2/20

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

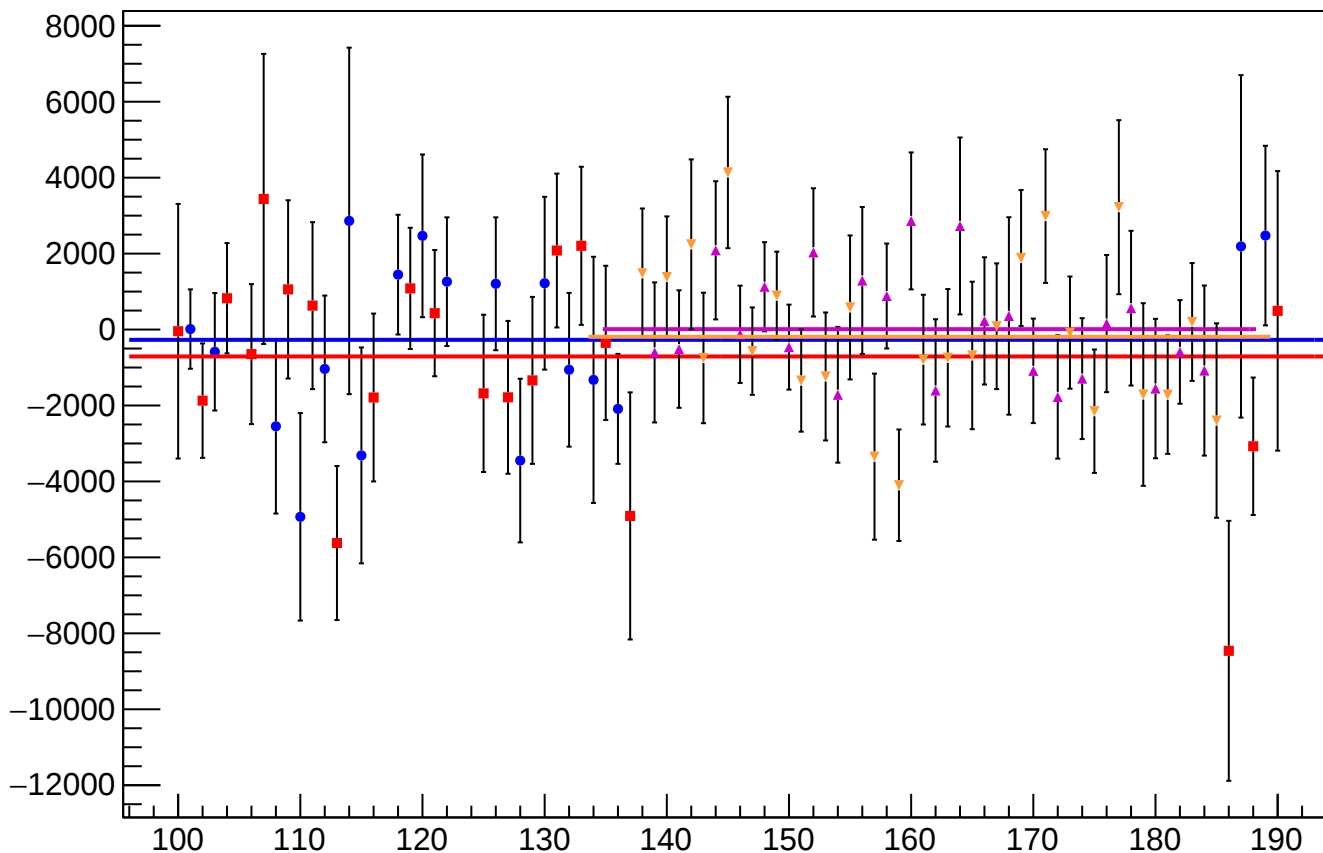
Right: 795.799 $\pm$ 0.142 χ^2 /NDF: 34465.0/38

In: 789.502 $\pm$ 0.112 χ^2 /NDF: 27054.3/40

Out: 797.749 $\pm$ 0.109 χ^2 /NDF: 676484.0/45

All: 793.748 $\pm$ 0.078 χ^2 /NDF: 706311.7/86

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -270.645 $\pm$ 454.366 χ^2 /NDF: 16.2/17

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

Right Out: -709.134 $\pm$ 450.918 χ^2 /NDF: 24.8/20

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

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

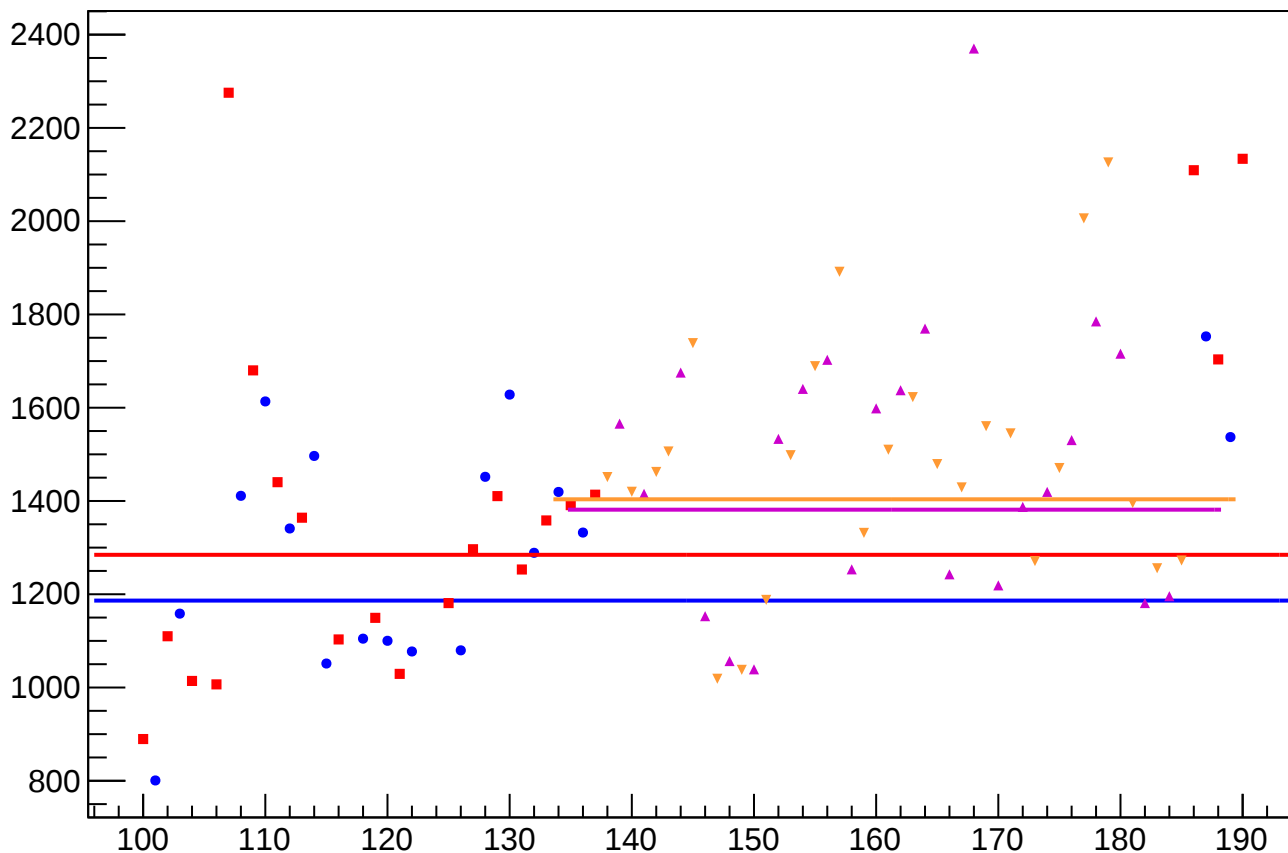
Right: -491.559 $\pm$ 320.060 χ^2 /NDF: 41.5/38

In: -89.845 $\pm$ 271.095 χ^2 /NDF:30.7/40

Out: -374.512 $\pm$ 268.342 χ^2 /NDF:55.8/45

All: -233.631 $\pm$ 190.712 χ^2 /NDF: 87.0/86

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1186.404 $\pm$ 0.321 χ^2/NDF : 608901.4/17

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

Right Out: 1284.566 $\pm$ 0.319 χ^2/NDF : 801596.7/20

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

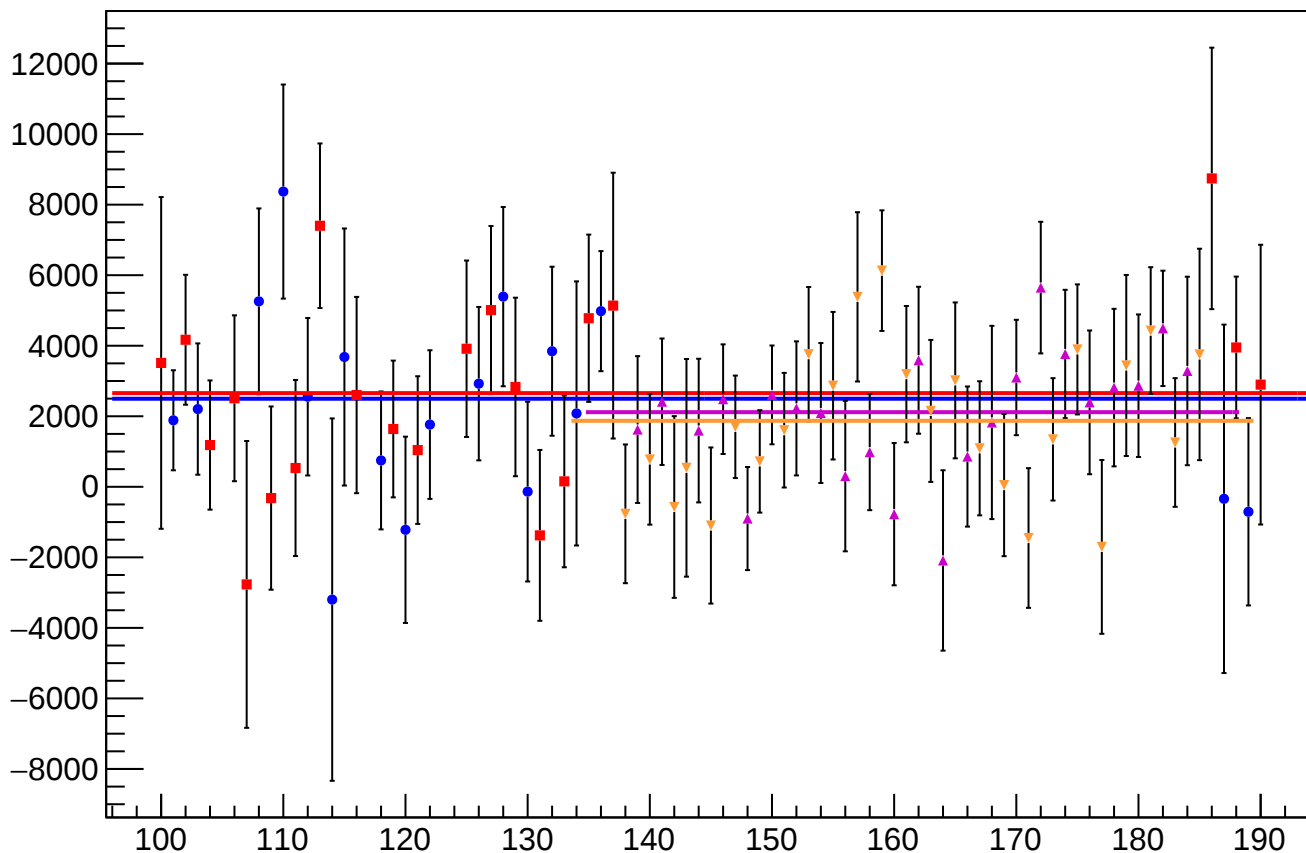
Right: 1235.859 $\pm$ 0.226 χ^2/NDF : 1457527.2/38

In: 1311.958 $\pm$ 0.192 χ^2/NDF : 2122516.4/40

Out: 1361.451 $\pm$ 0.190 χ^2/NDF : 2018150.2/45

All: 1336.957 $\pm$ 0.135 χ^2/NDF : 4174337.2/86

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2497.331+/-552.510 χ^2/NDF : 15.9/17

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

Right Out: 2656.313+/-537.725 χ^2/NDF : 19.6/20

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

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

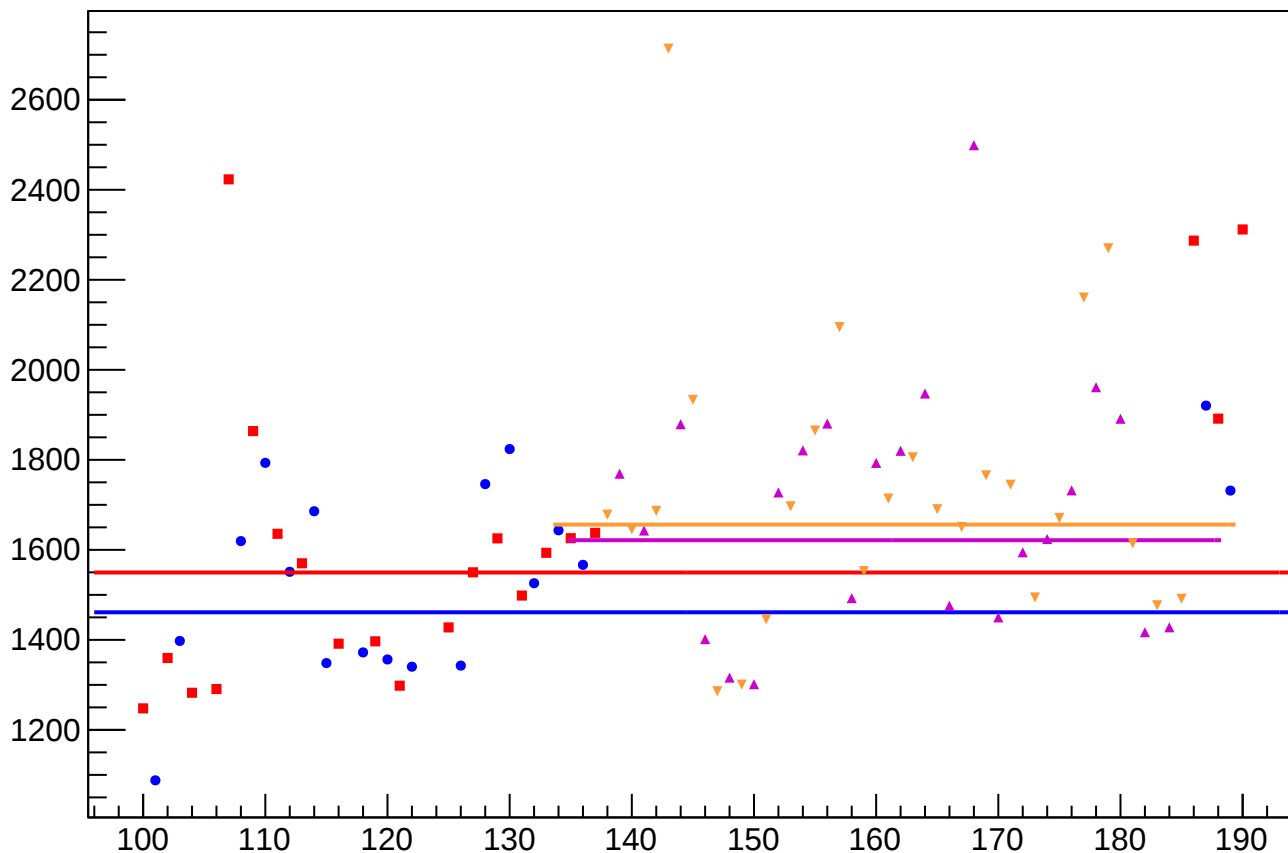
Right: 2578.978+/-385.350 χ^2/NDF : 35.6/38

In: 2244.188+/-320.247 χ^2/NDF : 35.0/40

Out: 2143.647+/-316.598 χ^2/NDF : 47.1/45

All: 2193.342+/-225.148 χ^2/NDF : 82.2/86

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1461.282+/-0.391 χ^2/NDF : 318412.3/17

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

Right Out: 1549.678+/-0.380 χ^2/NDF : 490316.5/20

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

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

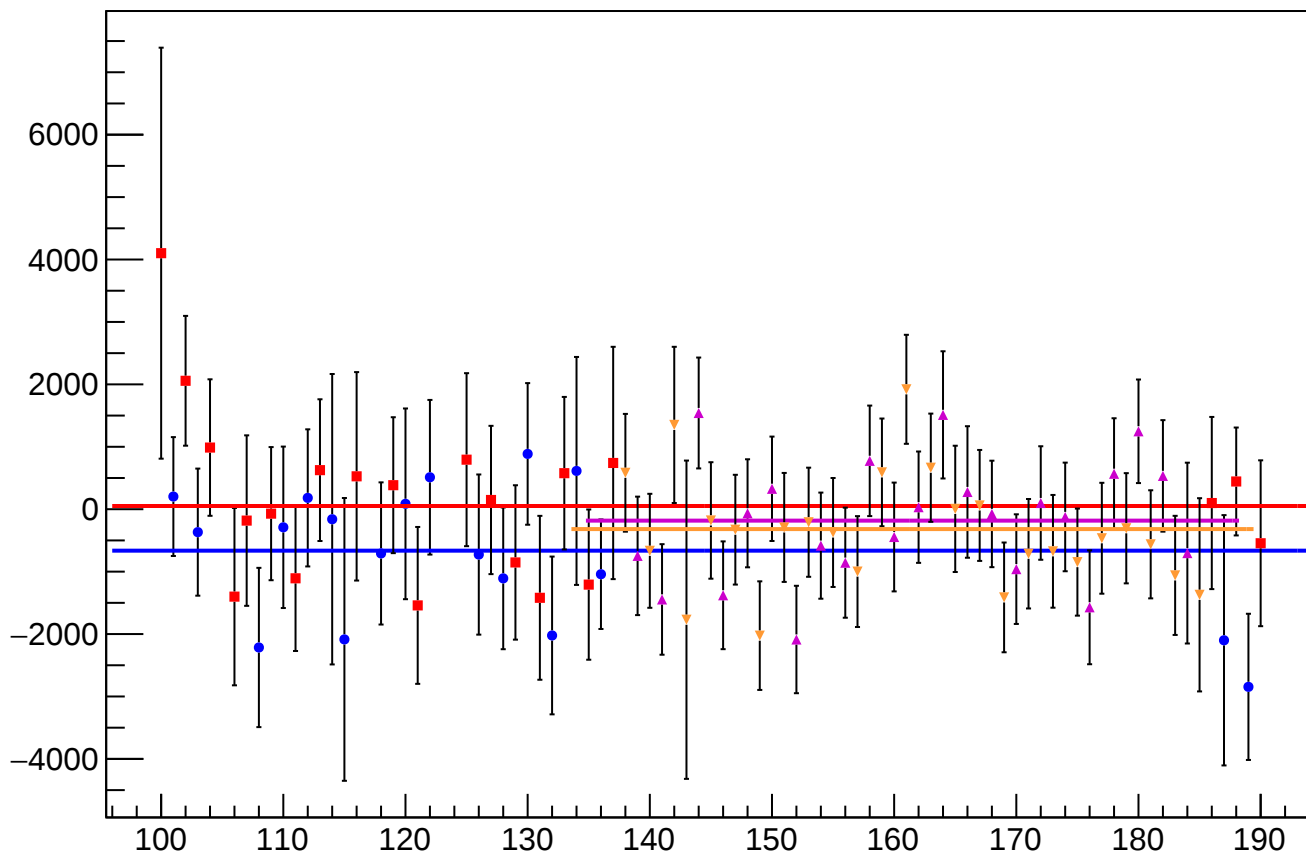
Right: 1506.679+/-0.272 χ^2/NDF : 835019.7/38

In: 1567.618+/-0.226 χ^2/NDF : 1205283.5/40

Out: 1619.221+/-0.224 χ^2/NDF : 1452090.2/45

All: 1593.715+/-0.159 χ^2/NDF : 2683636.3/86

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -664.090 ± 292.304 $\chi^2/\text{NDF}: 12.5/17$

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

Right Out: 51.402 ± 270.587 $\chi^2/\text{NDF}: 14.0/20$

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

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

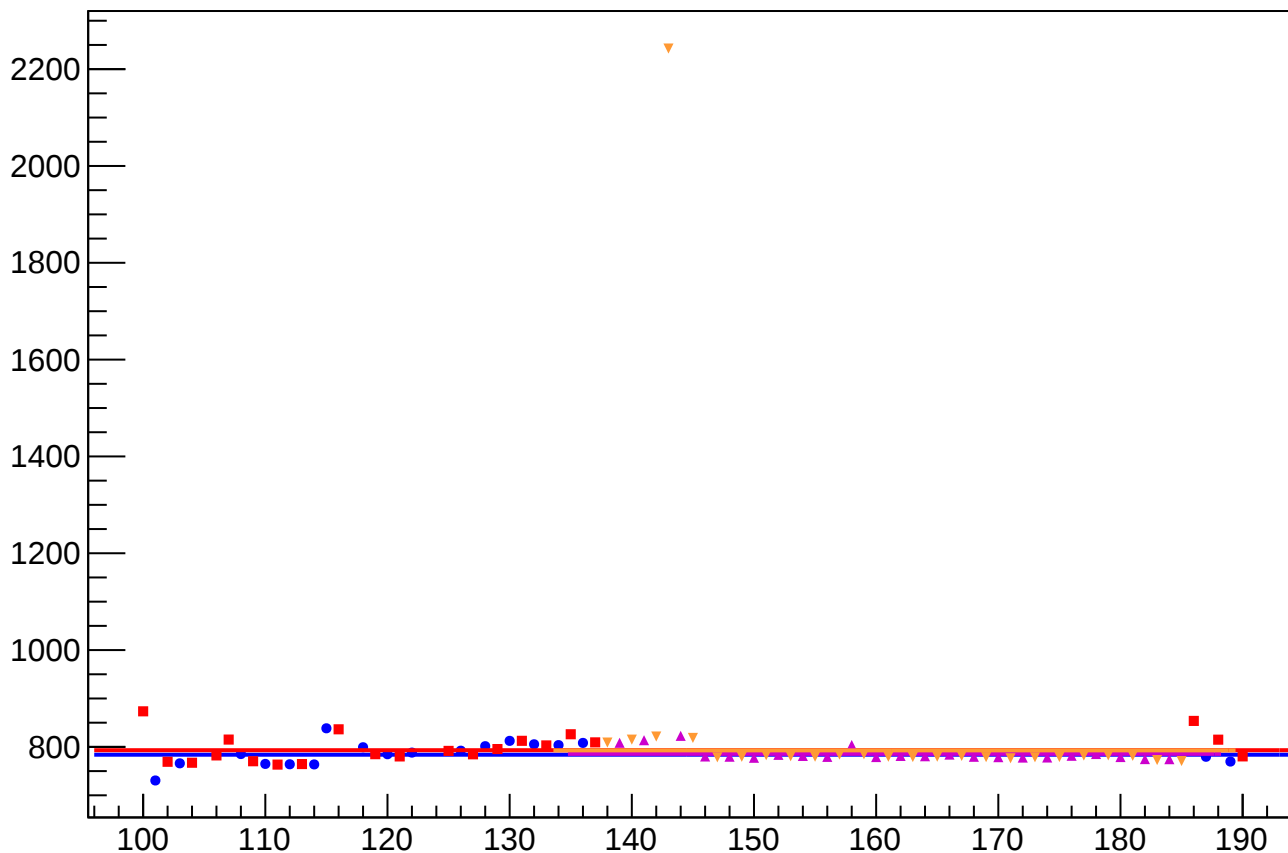
Right: -278.780 ± 198.568 $\chi^2/\text{NDF}: 29.7/38$

In: -323.507 ± 158.011 $\chi^2/\text{NDF}: 40.5/40$

Out: -199.656 ± 153.302 $\chi^2/\text{NDF}: 35.6/45$

All: -259.709 ± 110.028 $\chi^2/\text{NDF}: 76.5/86$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 783.862 $\pm$ 0.207 χ^2 /NDF: 14138.7/17

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

Right Out: 793.175 $\pm$ 0.191 χ^2 /NDF: 16781.6/20

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

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

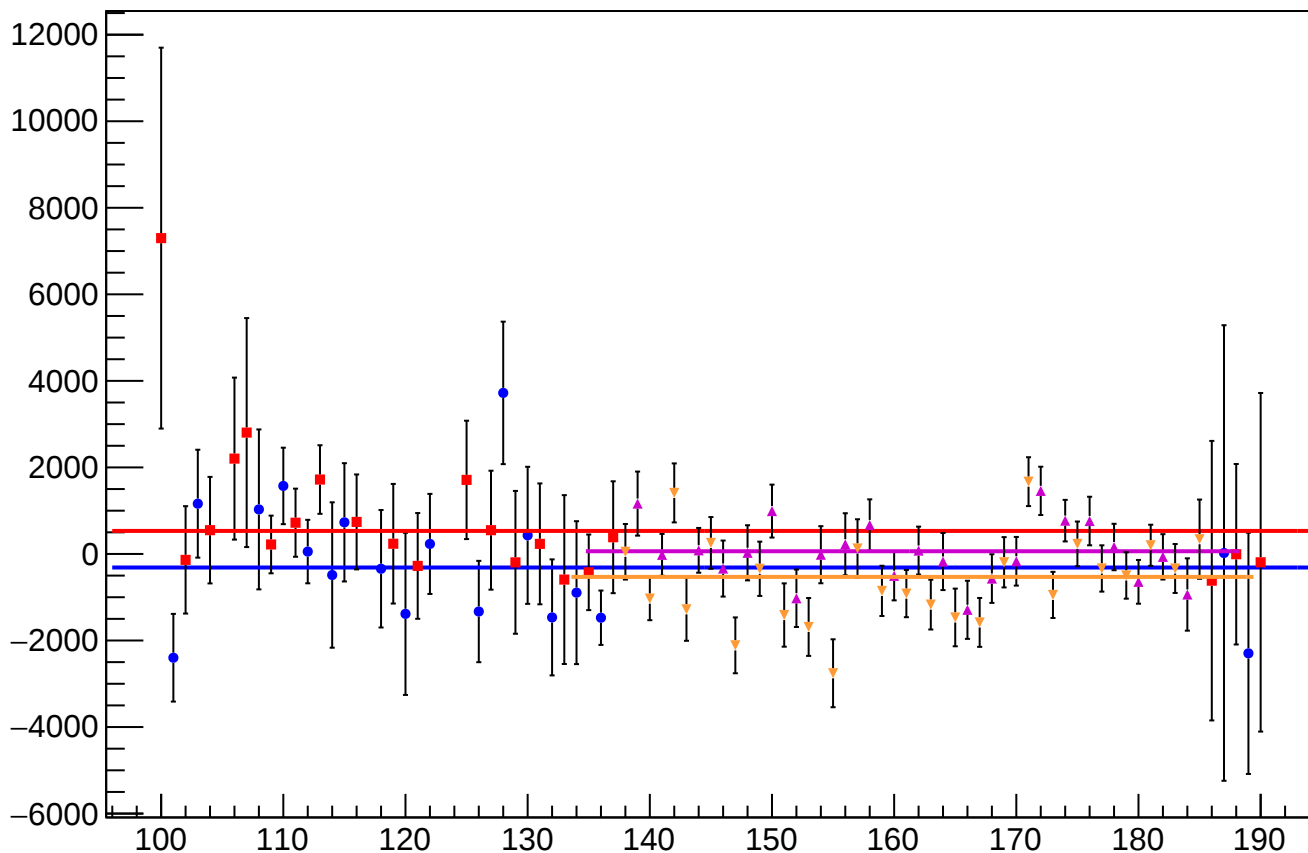
Right: 788.877 $\pm$ 0.140 χ^2 /NDF: 32013.8/38

In: 785.086 $\pm$ 0.112 χ^2 /NDF:23562.1/40

Out: 792.915 $\pm$ 0.108 χ^2 /NDF:676295.0/45

All: 789.119 $\pm$ 0.078 χ^2 /NDF: 702385.7/86

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -313.258+/-281.338 χ^2/NDF : 23.9/17

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

Right Out: 532.188+/-269.414 χ^2/NDF : 10.0/20

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

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

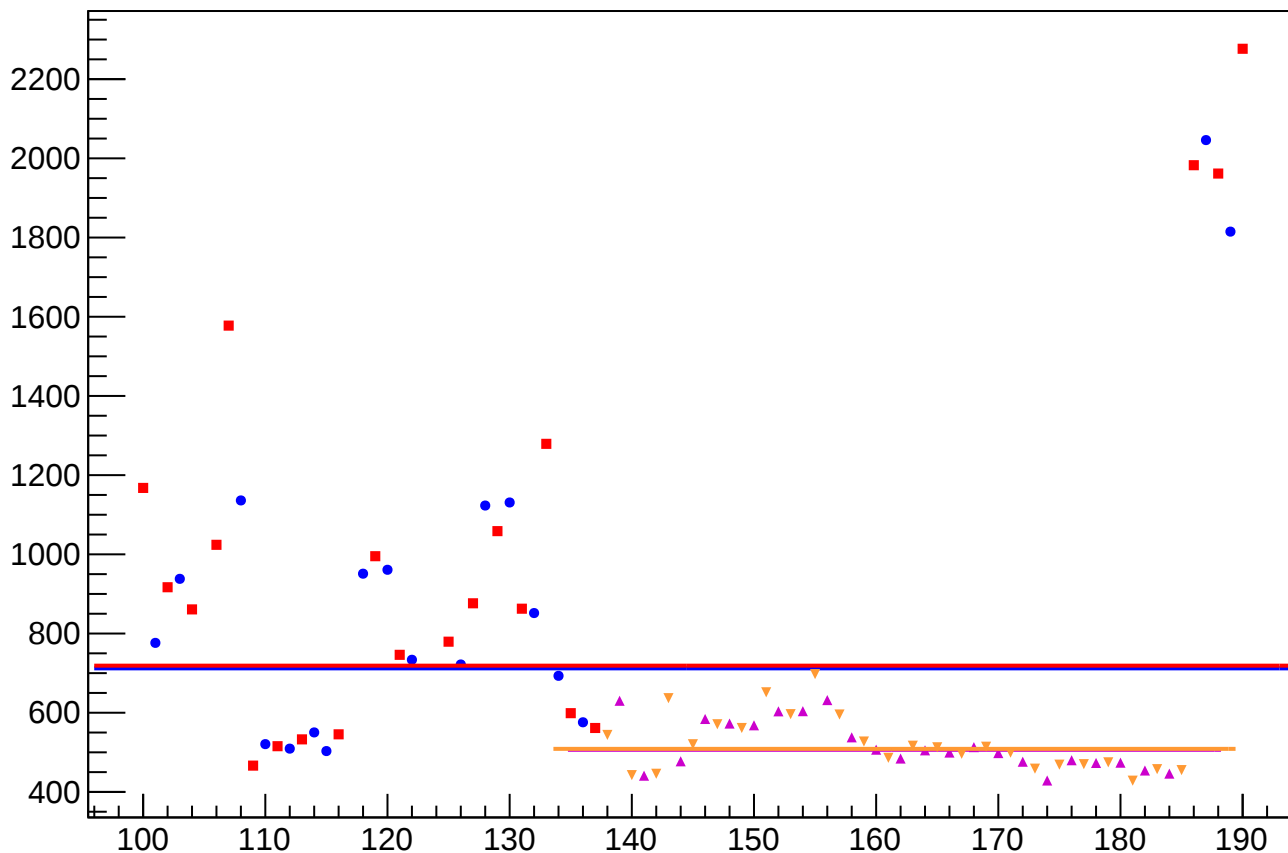
Right: 127.760+/-194.583 χ^2/NDF : 38.6/38

In: 3.212+/-111.964 χ^2/NDF : 54.2/40

Out: -355.359+/-109.269 χ^2/NDF : 84.6/45

All: -180.440+/-78.200 χ^2/NDF : 144.0/86

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 712.042 $\pm$ 0.199 χ^2 /NDF: 1411153.3/17

Left Out: 508.773 $\pm$ 0.085 χ^2 /NDF: 549245.1/24

Right Out: 718.881 $\pm$ 0.191 χ^2 /NDF: 2725713.7/20

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

Left: 507.601 $\pm$ 0.060 χ^2 /NDF: 985931.7/47

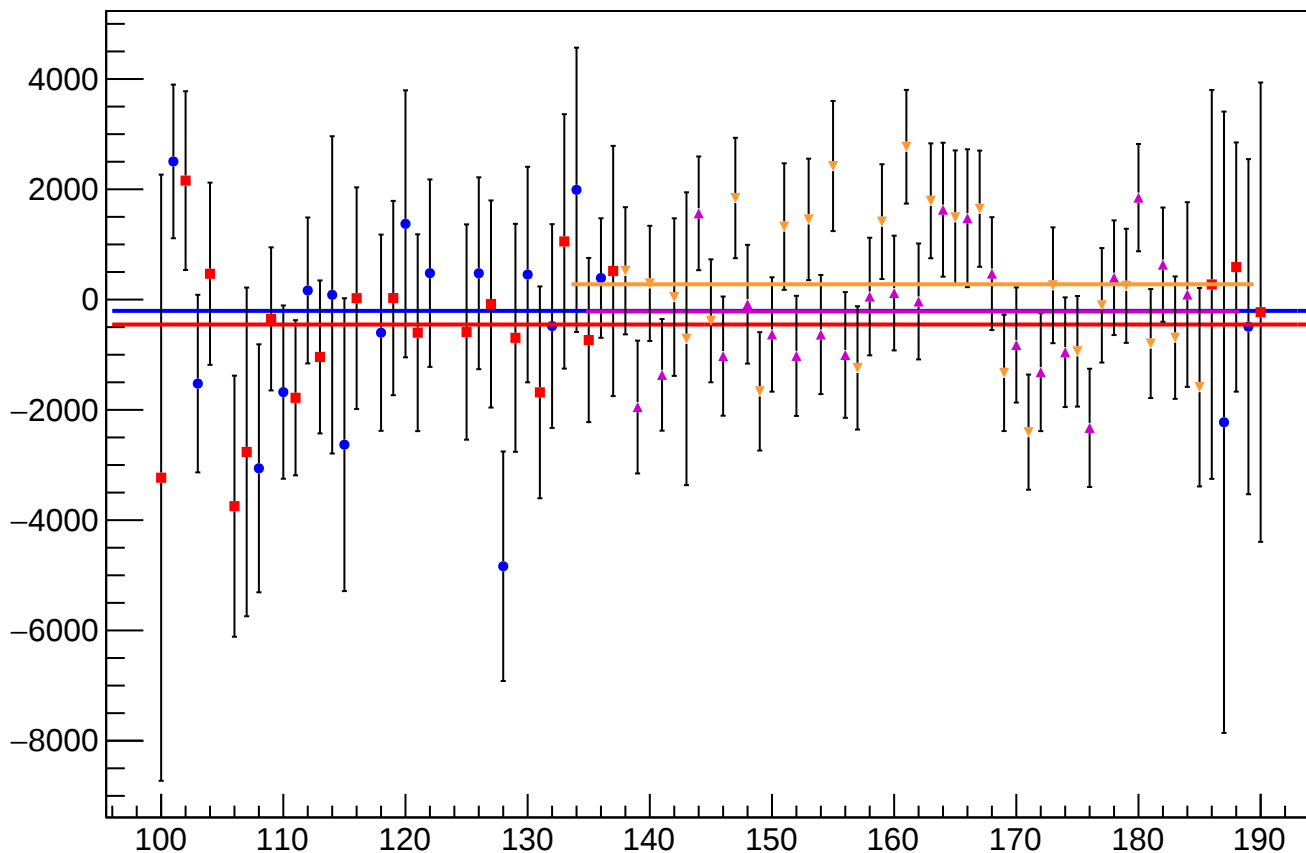
Right: 715.609 $\pm$ 0.138 χ^2 /NDF: 4137483.4/38

In: 538.953 $\pm$ 0.079 χ^2 /NDF: 2746935.8/40

Out: 543.335 $\pm$ 0.077 χ^2 /NDF: 4291261.2/45

All: 541.197 $\pm$ 0.055 χ^2 /NDF: 7039765.7/86

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -204.703 ± 429.219 $\chi^2/\text{NDF}: 14.9/17$

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

Right Out: -451.868 ± 415.521 $\chi^2/\text{NDF}: 8.3/20$

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

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

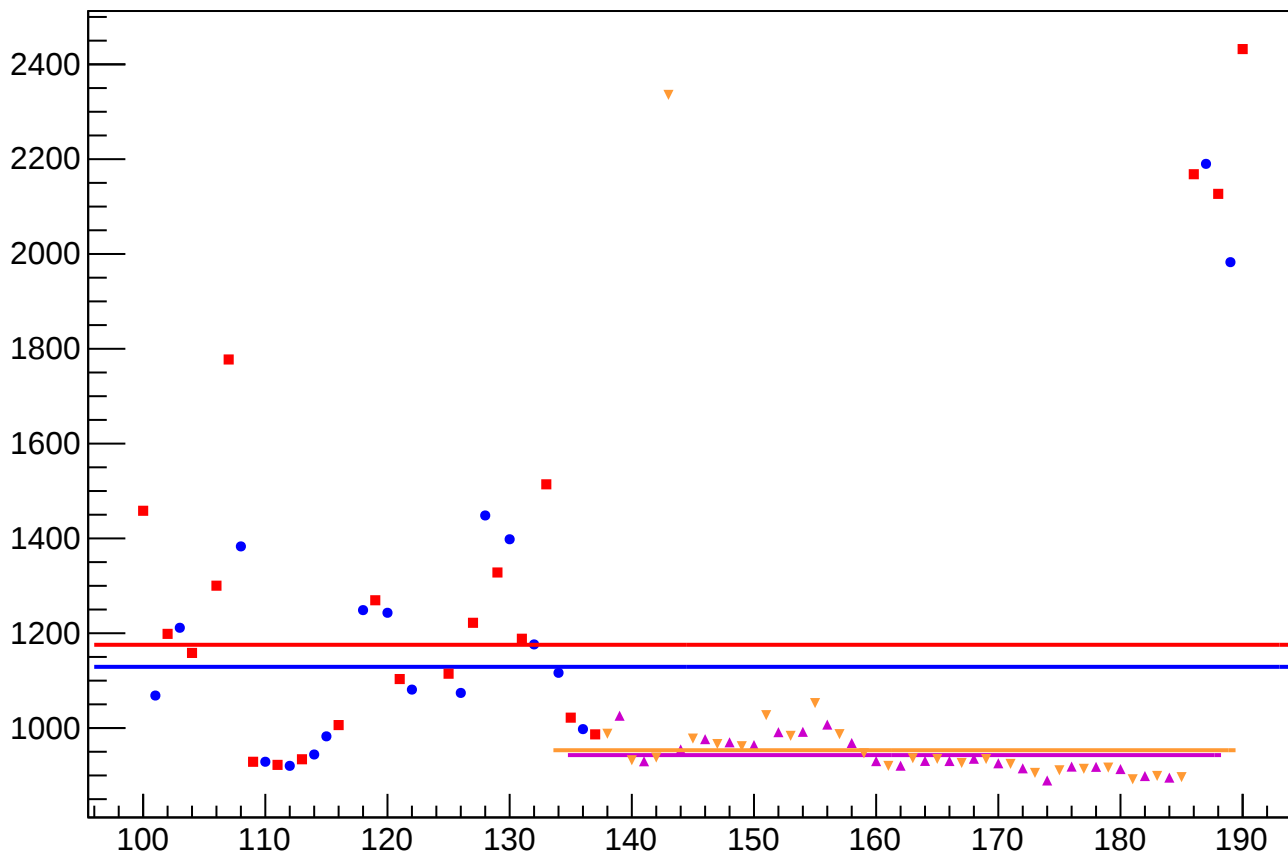
Right: -332.292 ± 298.543 $\chi^2/\text{NDF}: 23.4/38$

In: -213.649 ± 199.696 $\chi^2/\text{NDF}: 39.3/40$

Out: 114.200 ± 196.888 $\chi^2/\text{NDF}: 49.1/45$

All: -47.403 ± 140.203 $\chi^2/\text{NDF}: 89.8/86$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1129.116 $\pm$ 0.304 χ^2 /NDF: 492812.2/17

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

Right Out: 1175.617 $\pm$ 0.294 χ^2 /NDF: 1101288.9/20

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

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

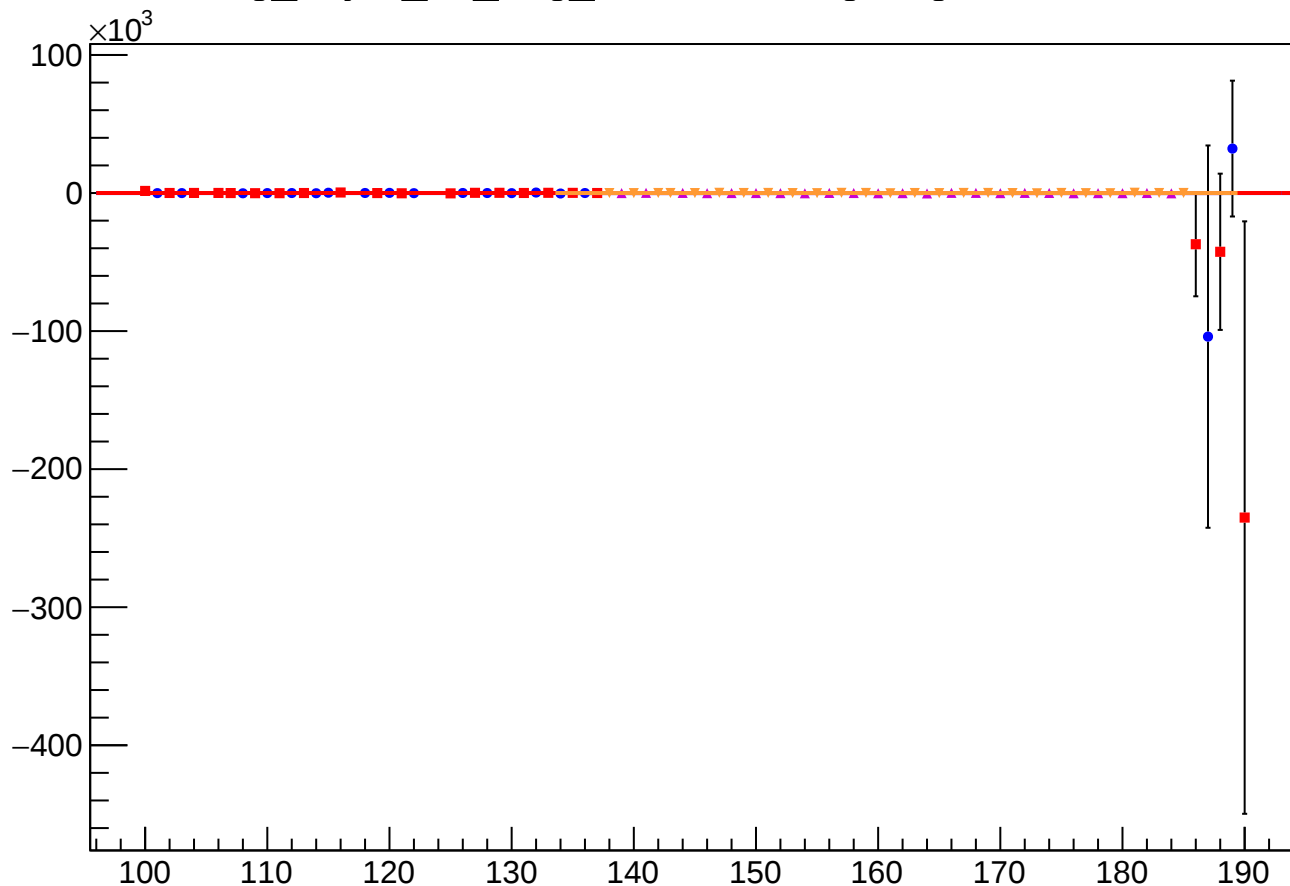
Right: 1153.120 $\pm$ 0.211 χ^2 /NDF: 1606219.4/38

In: 983.229 $\pm$ 0.141 χ^2 /NDF:836092.7/40

Out: 1003.153 $\pm$ 0.139 χ^2 /NDF:2151856.5/45

All: 993.332 $\pm$ 0.099 χ^2 /NDF: 2998044.4/86

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.544 ± 30.032 χ^2/NDF : 16.9/17

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

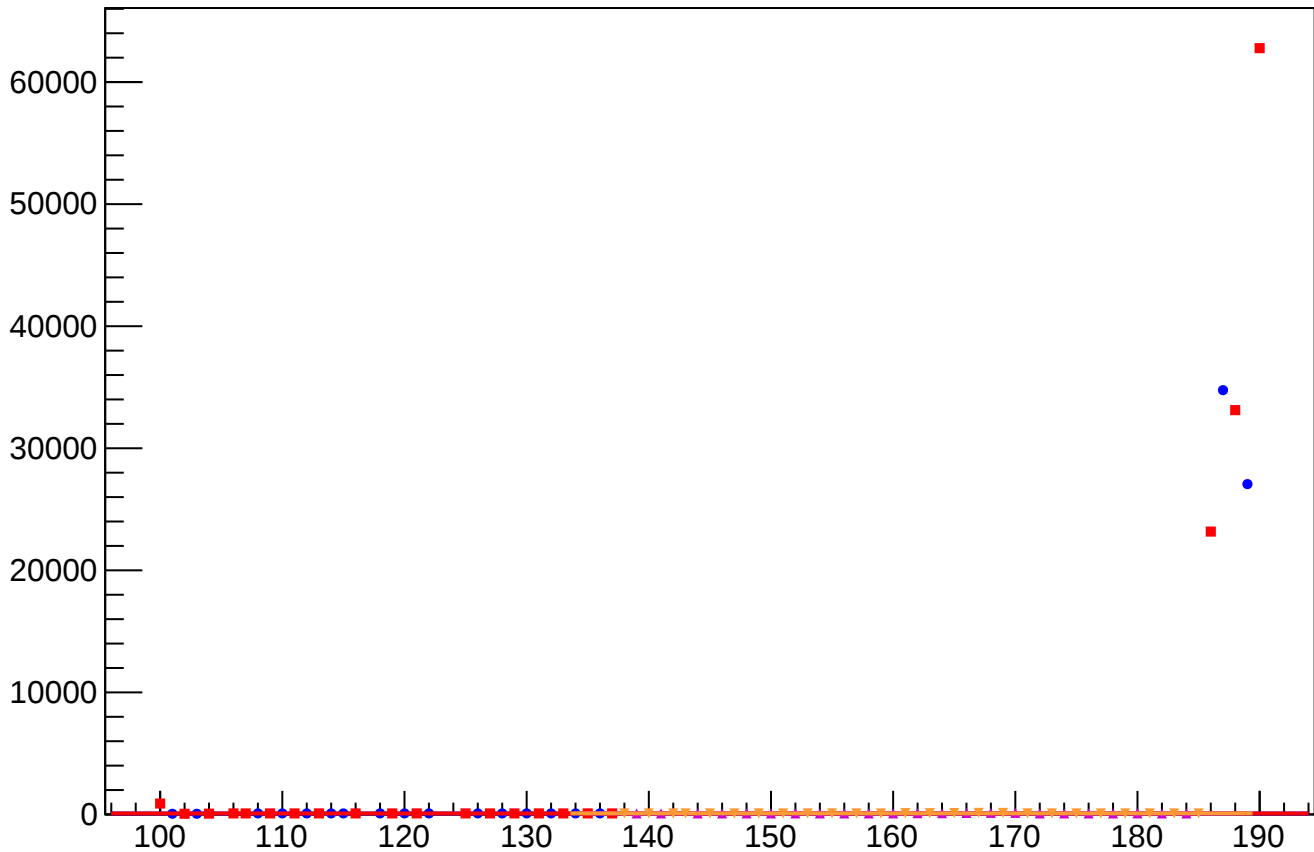
Right: 7.726 ± 21.397 χ^2/NDF : 37.7/38

In: -20.415 ± 17.527 χ^2/NDF : 39.5/40

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

All: -3.326 ± 12.302 χ^2/NDF : 83.9/86

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.065+/-0.021 χ^2/NDF : 1144634.8/17

Left Out: 89.483+/-0.015 χ^2/NDF : 470330.2/24

Right Out: 79.397+/-0.022 χ^2/NDF : 2016978.3/20

Left In: 89.596+/-0.015 χ^2/NDF : 508511.1/22

Left: 89.538+/-0.011 χ^2/NDF : 978869.2/47

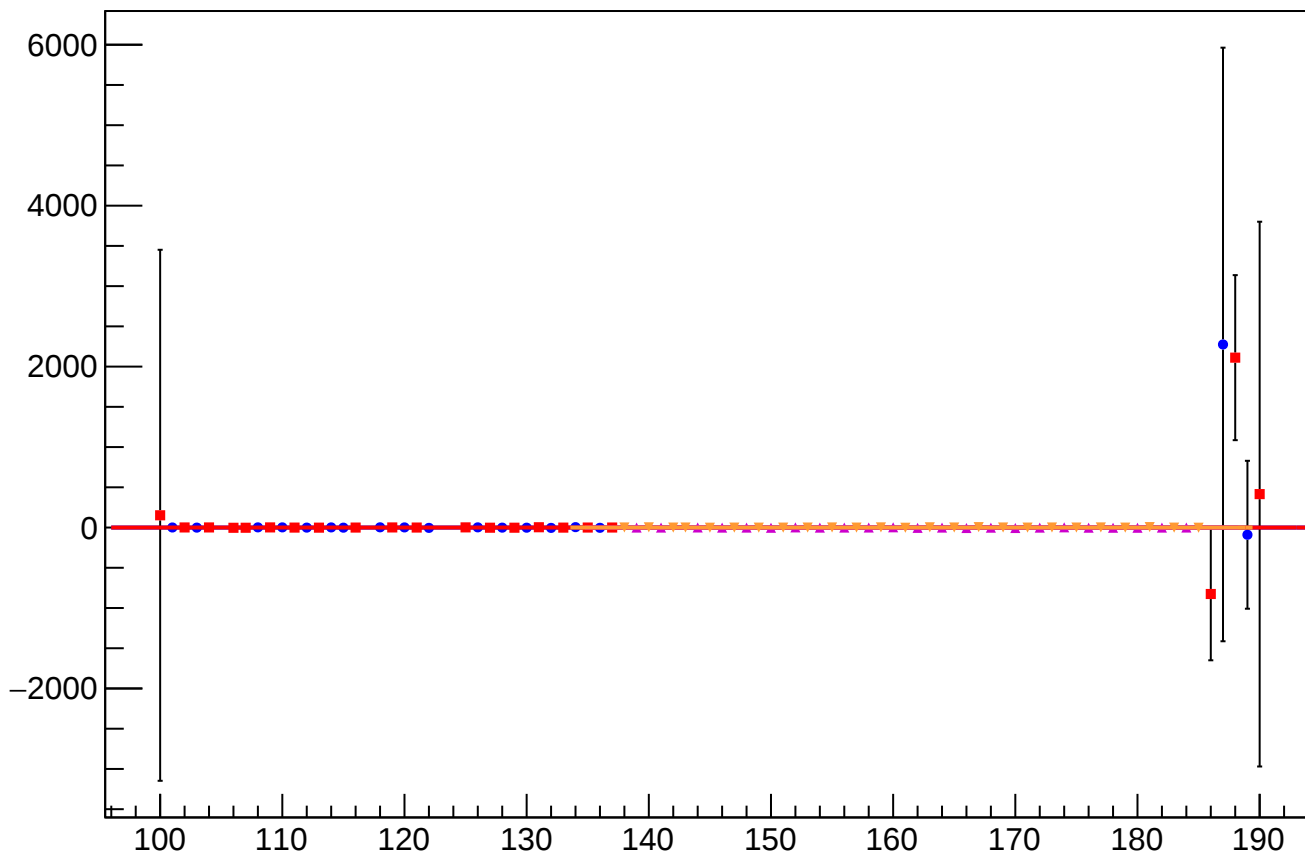
Right: 77.706+/-0.015 χ^2/NDF : 3173736.0/38

In: 84.987+/-0.012 χ^2/NDF : 1920829.7/40

Out: 86.247+/-0.012 χ^2/NDF : 2635923.4/45

All: 85.626+/-0.009 χ^2/NDF : 4561995.6/86

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 21.3/17

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

Right Out: 0.039 ± 0.525 χ^2/NDF : 15.2/20

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

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

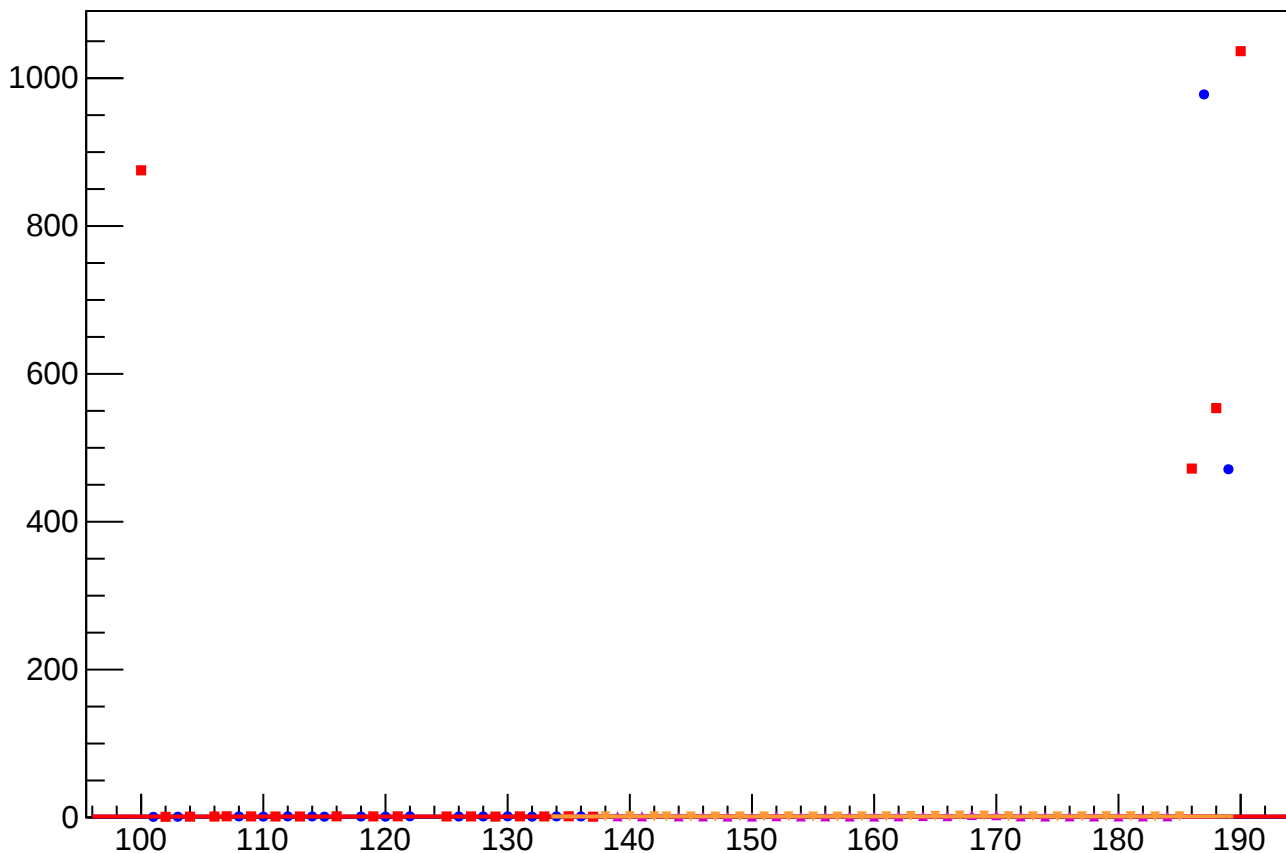
Right: -0.133 ± 0.363 χ^2/NDF : 36.7/38

In: -0.433 ± 0.306 χ^2/NDF : 47.8/40

Out: 0.103 ± 0.301 χ^2/NDF : 36.6/45

All: -0.160 ± 0.215 χ^2/NDF : 85.9/86

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152+/-0.000 χ^2/NDF : 1169110.6/17

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

Right Out: 1.259+/-0.000 χ^2/NDF : 1909469.8/20

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

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

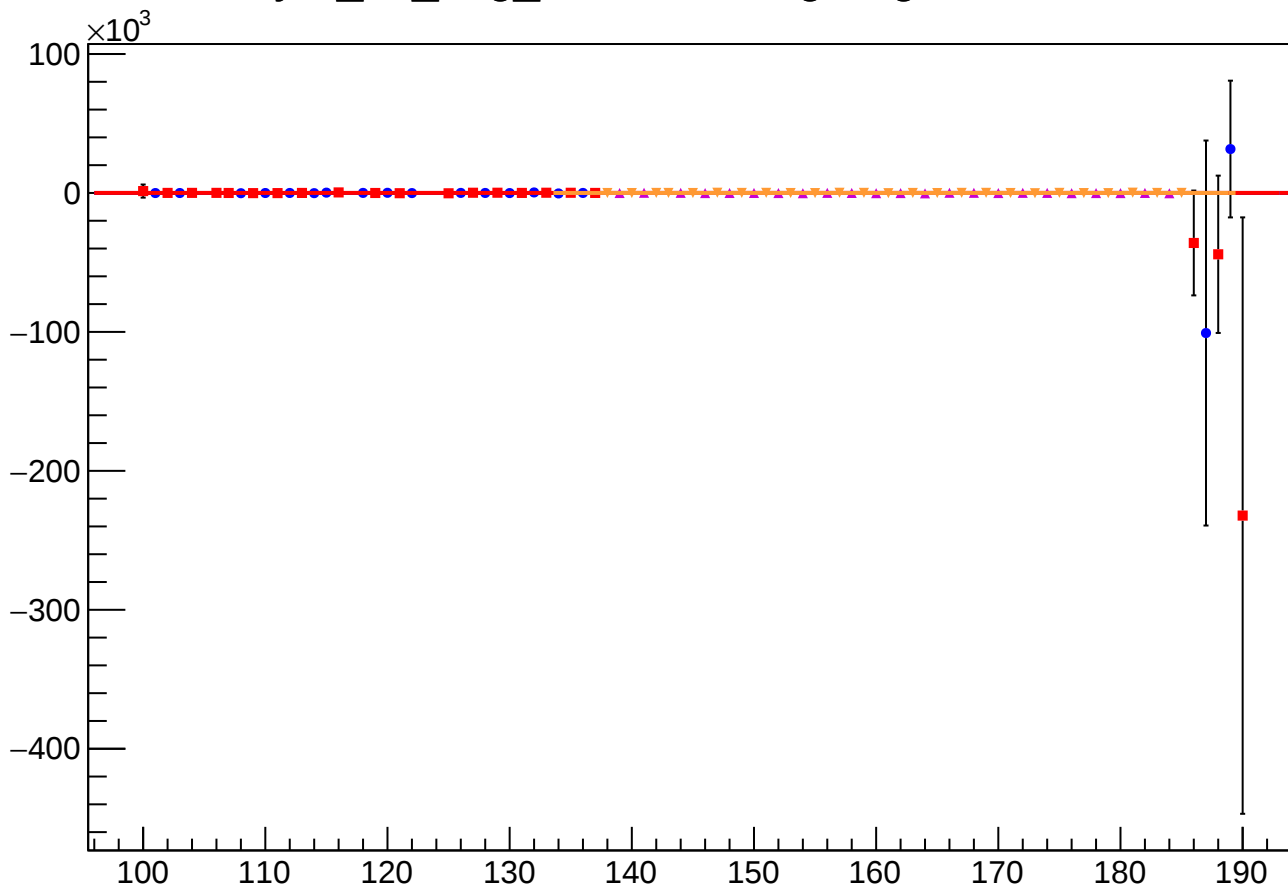
Right: 1.203+/-0.000 χ^2/NDF : 3122120.1/38

In: 1.341+/-0.000 χ^2/NDF :2616246.2/40

Out: 1.357+/-0.000 χ^2/NDF :3004040.7/45

All: 1.349+/-0.000 χ^2/NDF : 5622951.2/86

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.480 ± 30.040 $\chi^2/\text{NDF}: 17.2/17$

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

Right Out: 31.992 ± 30.500 $\chi^2/\text{NDF}: 19.5/20$

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

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

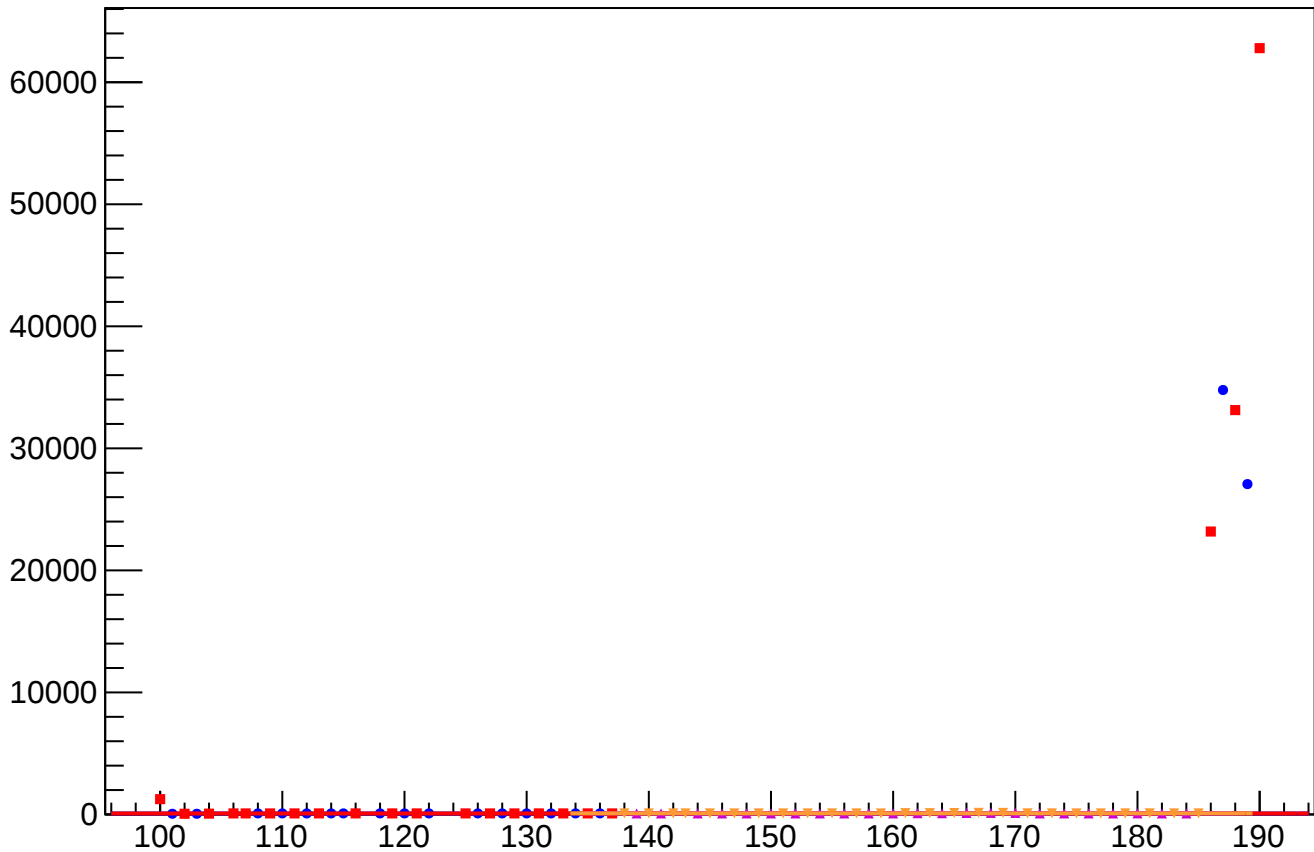
Right: 8.403 ± 21.402 $\chi^2/\text{NDF}: 37.8/38$

In: -19.732 ± 17.532 $\chi^2/\text{NDF}: 39.5/40$

Out: 13.266 ± 17.277 $\chi^2/\text{NDF}: 42.2/45$

All: -2.992 ± 12.306 $\chi^2/\text{NDF}: 83.5/86$

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.085+/-0.021 χ^2/NDF : 1144655.0/17

Left Out: 89.510+/-0.015 χ^2/NDF : 471081.1/24

Right Out: 79.401+/-0.022 χ^2/NDF : 2023508.4/20

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

Left: 89.564+/-0.011 χ^2/NDF : 980500.8/47

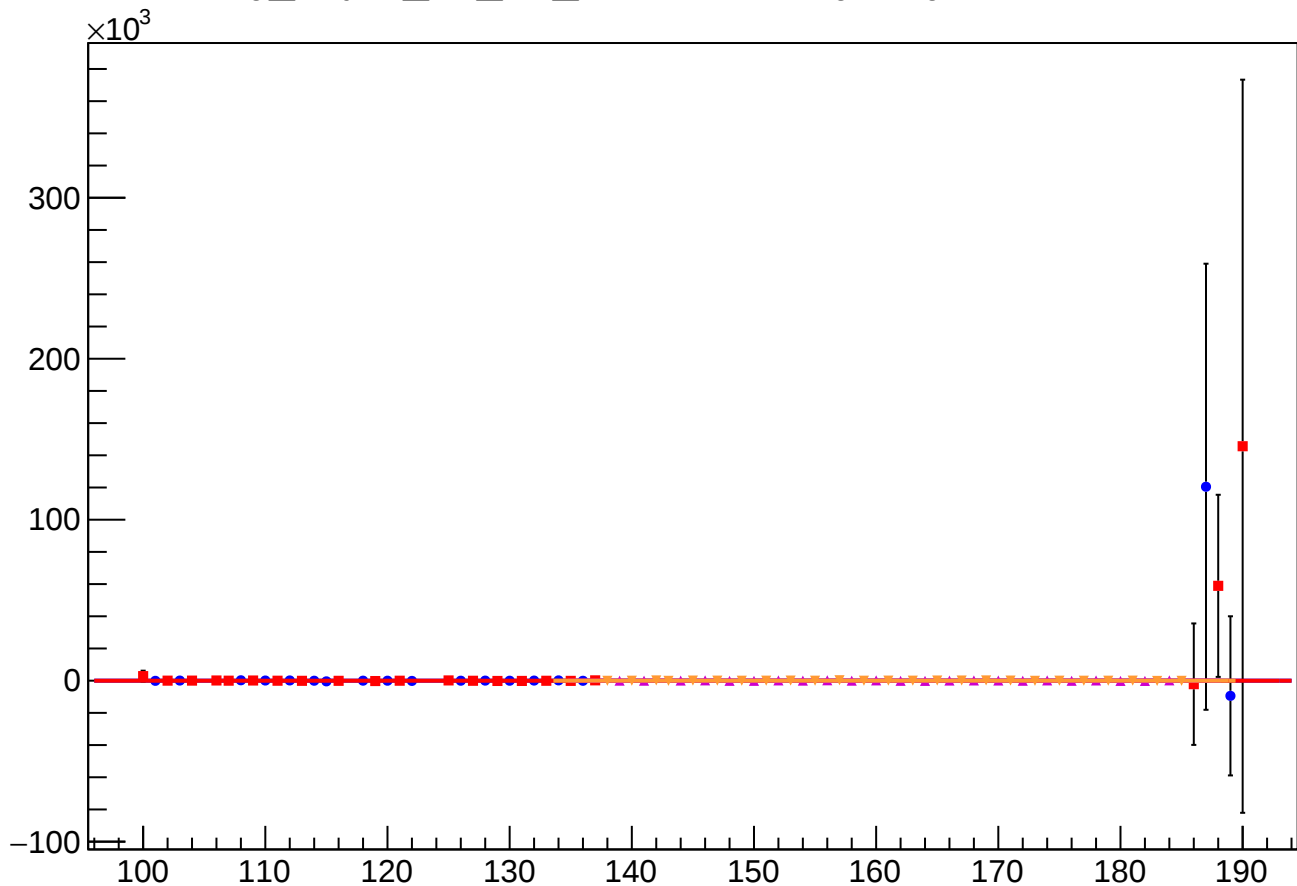
Right: 77.717+/-0.015 χ^2/NDF : 3180160.5/38

In: 85.011+/-0.012 χ^2/NDF : 1921853.1/40

Out: 86.266+/-0.012 χ^2/NDF : 2643799.1/45

All: 85.648+/-0.009 χ^2/NDF : 4570849.5/86

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.116 ± 30.012 $\chi^2/\text{NDF}: 14.8/17$

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 $\chi^2/\text{NDF}: 51.2/47$

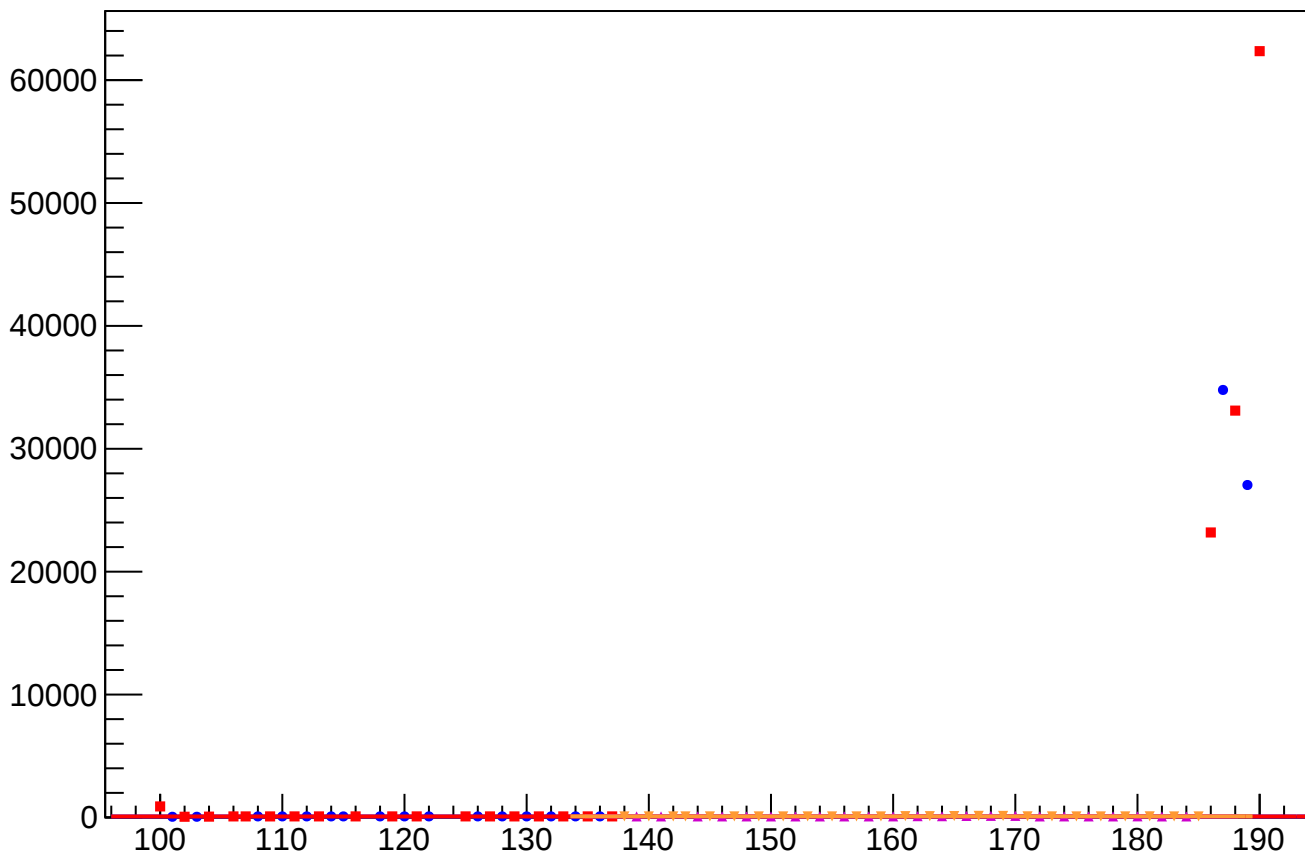
Right: -8.562 ± 21.383 $\chi^2/\text{NDF}: 29.7/38$

In: 31.381 ± 17.528 $\chi^2/\text{NDF}: 47.2/40$

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

All: 14.663 ± 12.303 $\chi^2/\text{NDF}: 82.7/86$

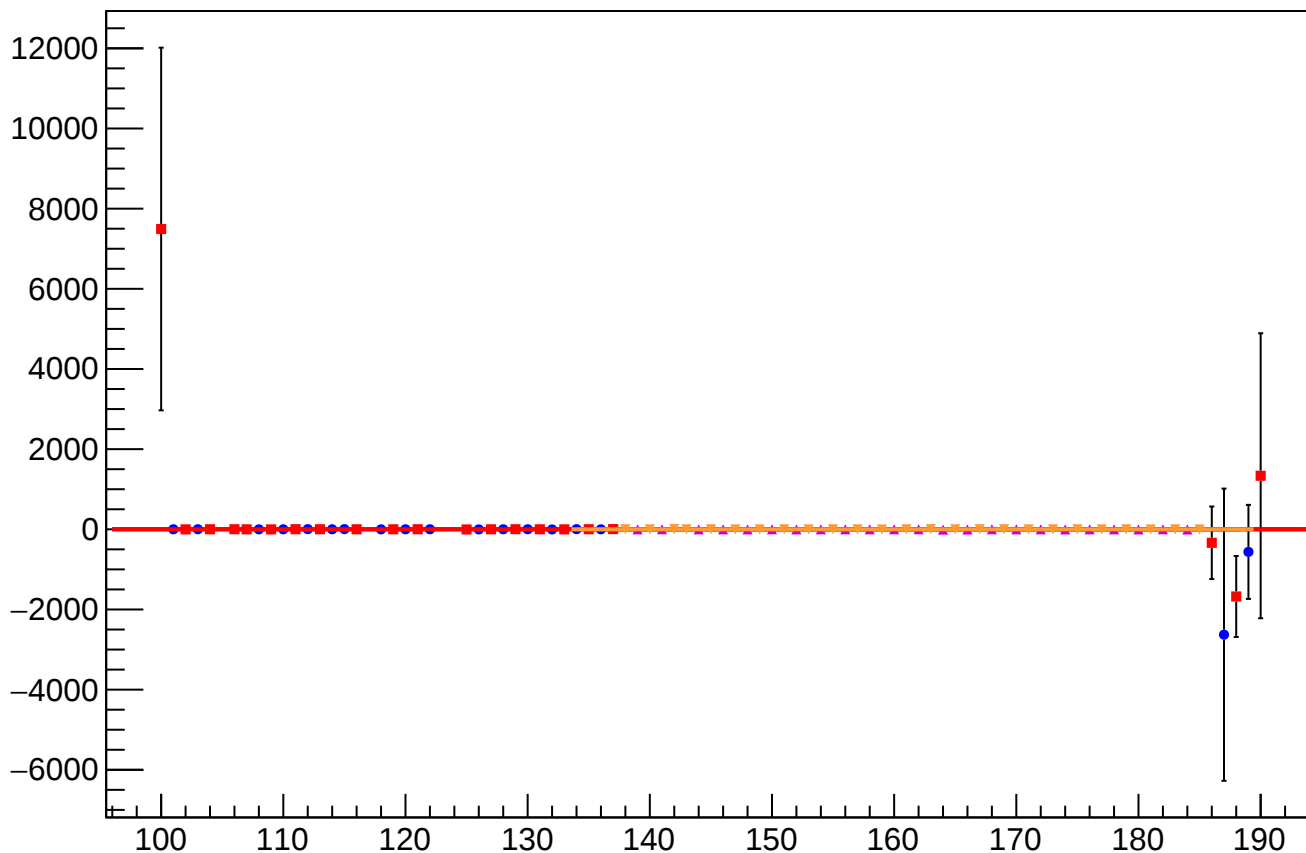
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.016+/-0.021 χ^2/NDF : 1144359.5/17
Left Out: 89.507+/-0.015 χ^2/NDF : 468988.9/24
Right Out: 79.349+/-0.022 χ^2/NDF : 2016282.7/20
Left In: 89.628+/-0.015 χ^2/NDF : 511042.3/22

Left: 89.566+/-0.011 χ^2/NDF : 980063.3/47
Right: 77.657+/-0.015 χ^2/NDF : 3172786.0/38
In: 84.985+/-0.012 χ^2/NDF : 1926479.2/40
Out: 86.244+/-0.012 χ^2/NDF : 2636134.0/45
All: 85.624+/-0.009 χ^2/NDF : 4567847.1/86

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 12.7/17$

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

Right Out: 0.347 ± 0.549 $\chi^2/\text{NDF}: 16.5/20$

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

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

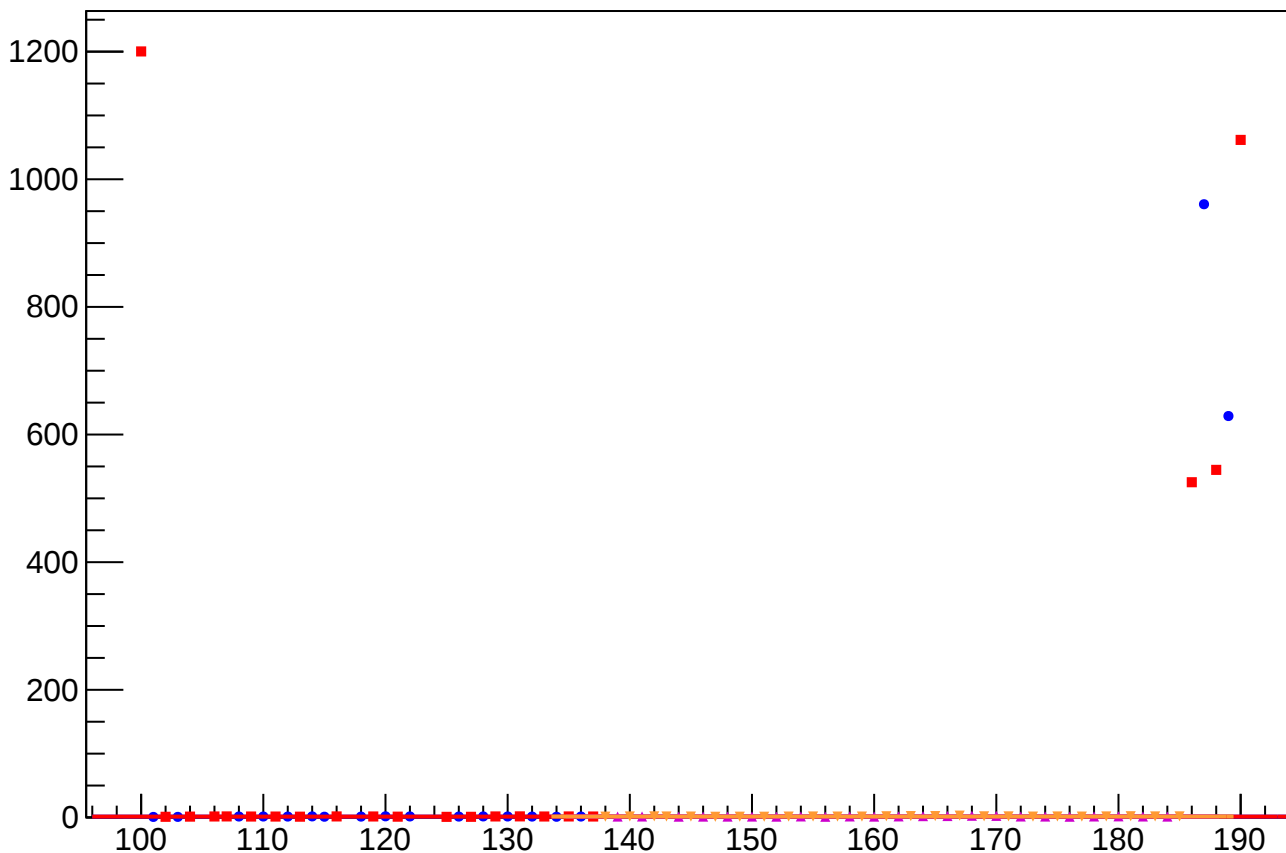
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 29.7/38$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 35.2/40$

Out: -0.235 ± 0.314 $\chi^2/\text{NDF}: 38.9/45$

All: 0.015 ± 0.222 $\chi^2/\text{NDF}: 75.3/86$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.233+/-0.000 χ^2/NDF : 1337074.6/17

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

Right Out: 1.316+/-0.000 χ^2/NDF : 1943402.4/20

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

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

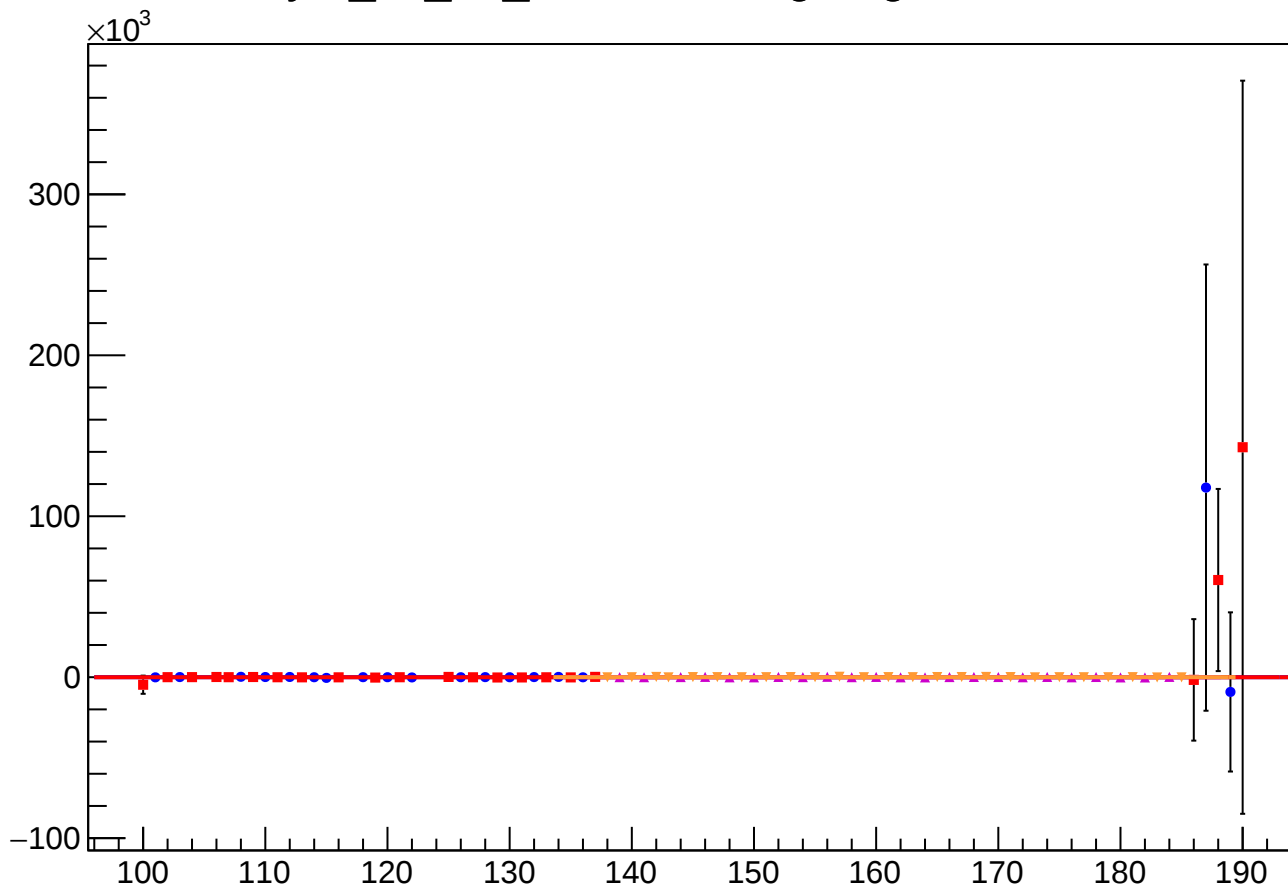
Right: 1.273+/-0.000 χ^2/NDF : 3303777.8/38

In: 1.381+/-0.000 χ^2/NDF : 2624458.6/40

Out: 1.421+/-0.000 χ^2/NDF : 3209188.7/45

All: 1.401+/-0.000 χ^2/NDF : 5849833.6/86

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.408 ± 30.020 $\chi^2/\text{NDF}: 14.7/17$

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 $\chi^2/\text{NDF}: 50.7/47$

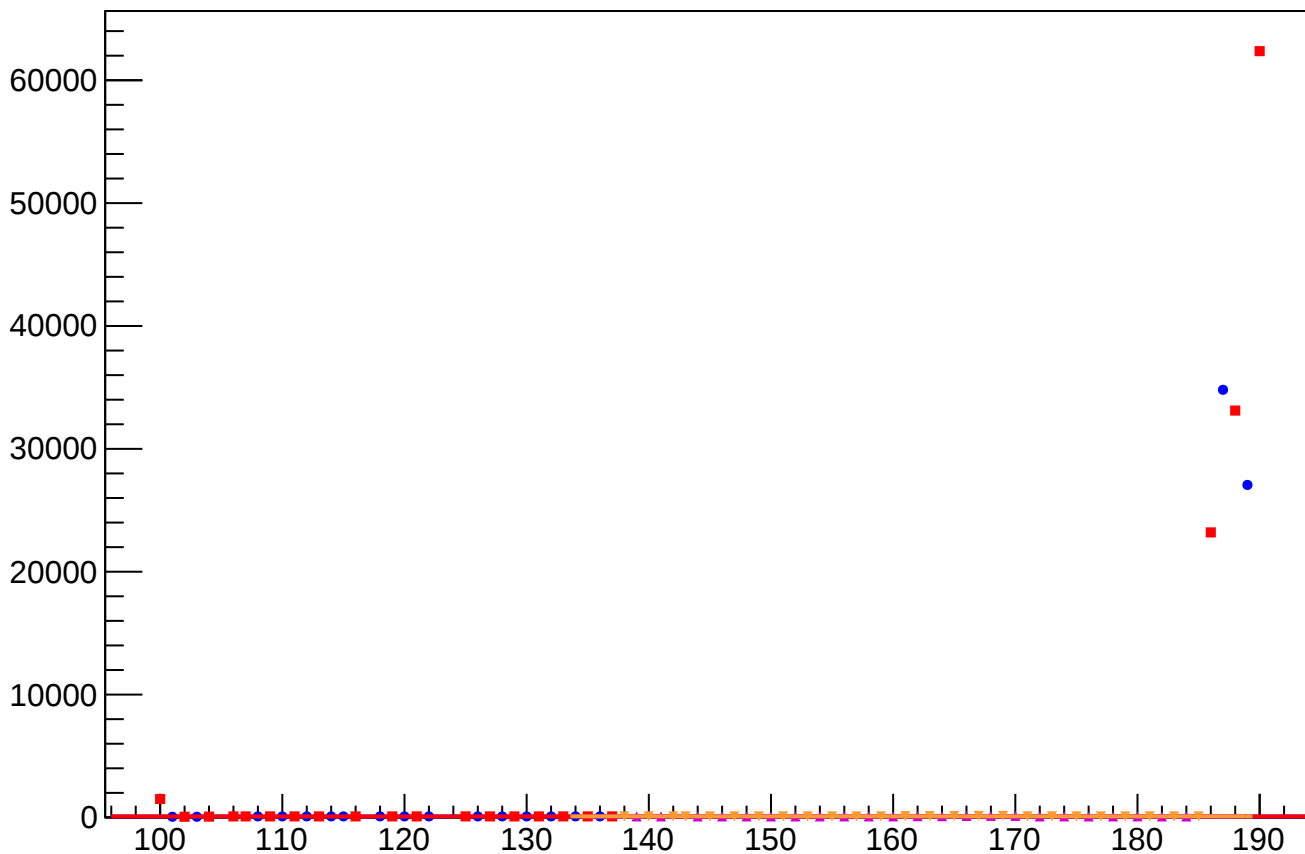
Right: -9.221 ± 21.389 $\chi^2/\text{NDF}: 29.8/38$

In: 31.455 ± 17.533 $\chi^2/\text{NDF}: 46.7/40$

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

All: 14.788 ± 12.306 $\chi^2/\text{NDF}: 82.4/86$

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.036 $\pm$ 0.021 χ^2/NDF : 1144406.7/17

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

Right Out: 79.345 $\pm$ 0.022 χ^2/NDF : 2025531.9/20

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

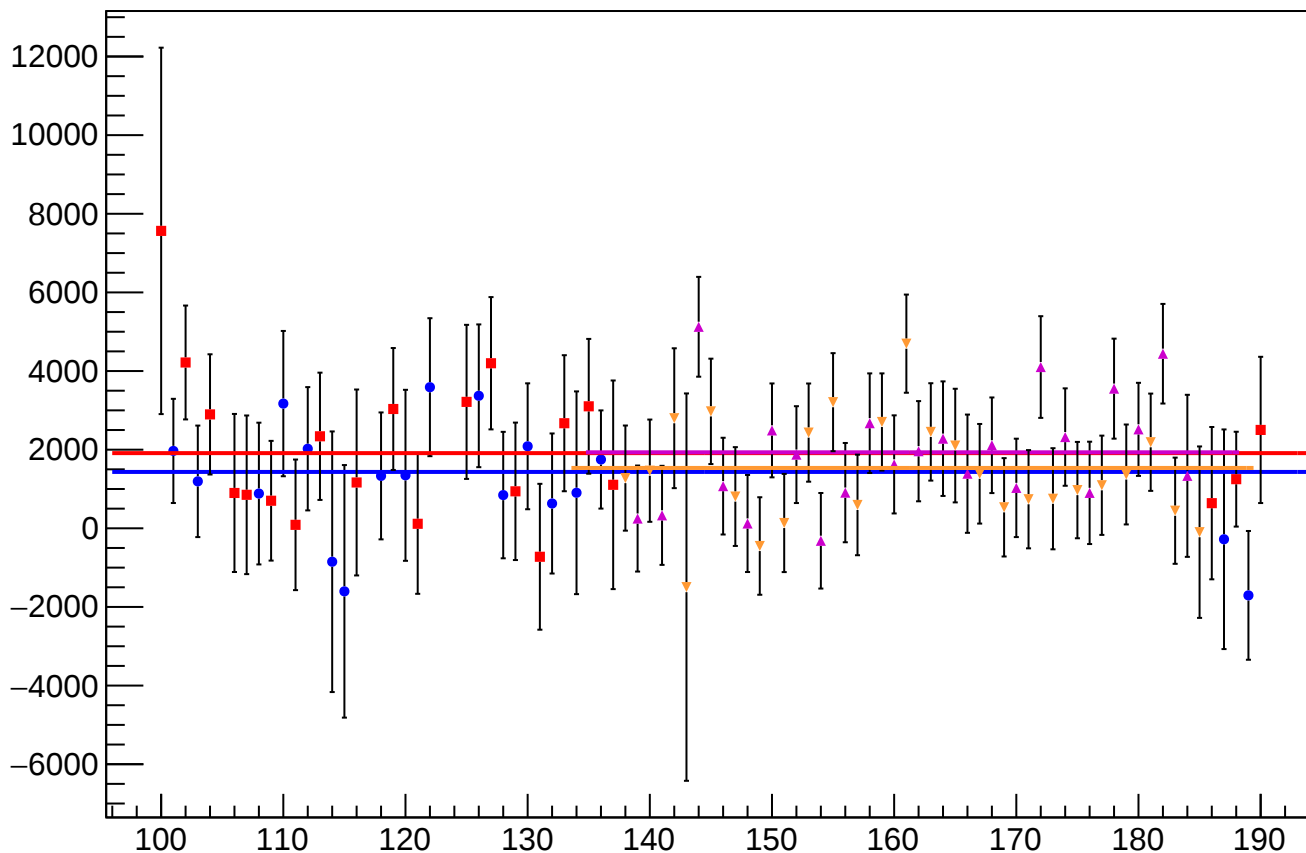
Right: 77.666 $\pm$ 0.015 χ^2/NDF : 3181902.3/38

In: 85.009 $\pm$ 0.012 χ^2/NDF : 1927429.0/40

Out: 86.261 $\pm$ 0.012 χ^2/NDF : 2646957.7/45

All: 85.644 $\pm$ 0.009 χ^2/NDF : 4579559.2/86

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1433.894 $\pm$ 412.735 χ^2 /NDF: 10.0/17

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

Right Out: 1912.310 $\pm$ 382.908 χ^2 /NDF: 14.7/20

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

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

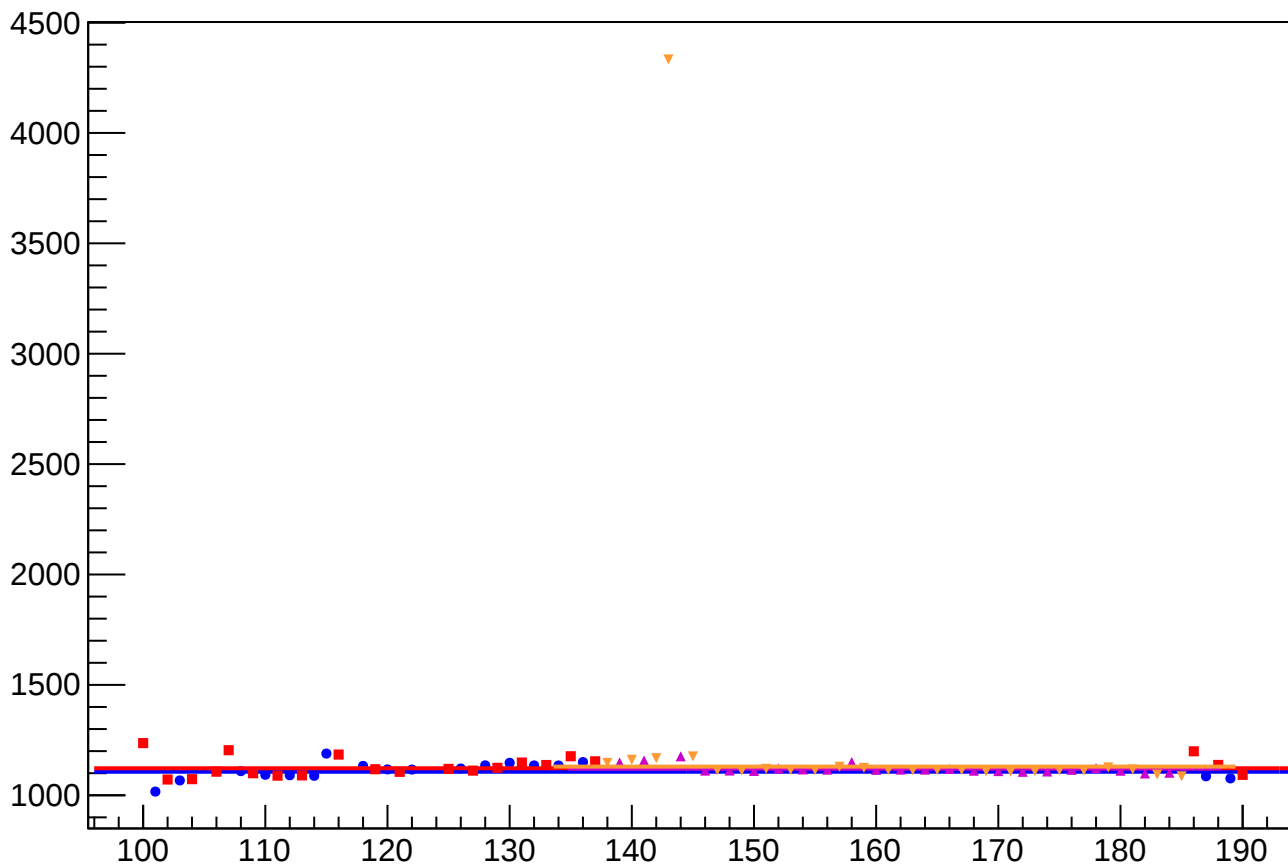
Right: 1691.012 $\pm$ 280.710 χ^2 /NDF: 25.4/38

In: 1784.970 $\pm$ 224.776 χ^2 /NDF:38.0/40

Out: 1657.908 $\pm$ 218.394 χ^2 /NDF:35.7/45

All: 1719.610 $\pm$ 156.636 χ^2 /NDF: 73.9/86

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1106.623+/-0.292 χ^2/NDF : 19097.0/17

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

Right Out: 1122.330+/-0.271 χ^2/NDF : 19667.2/20

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

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

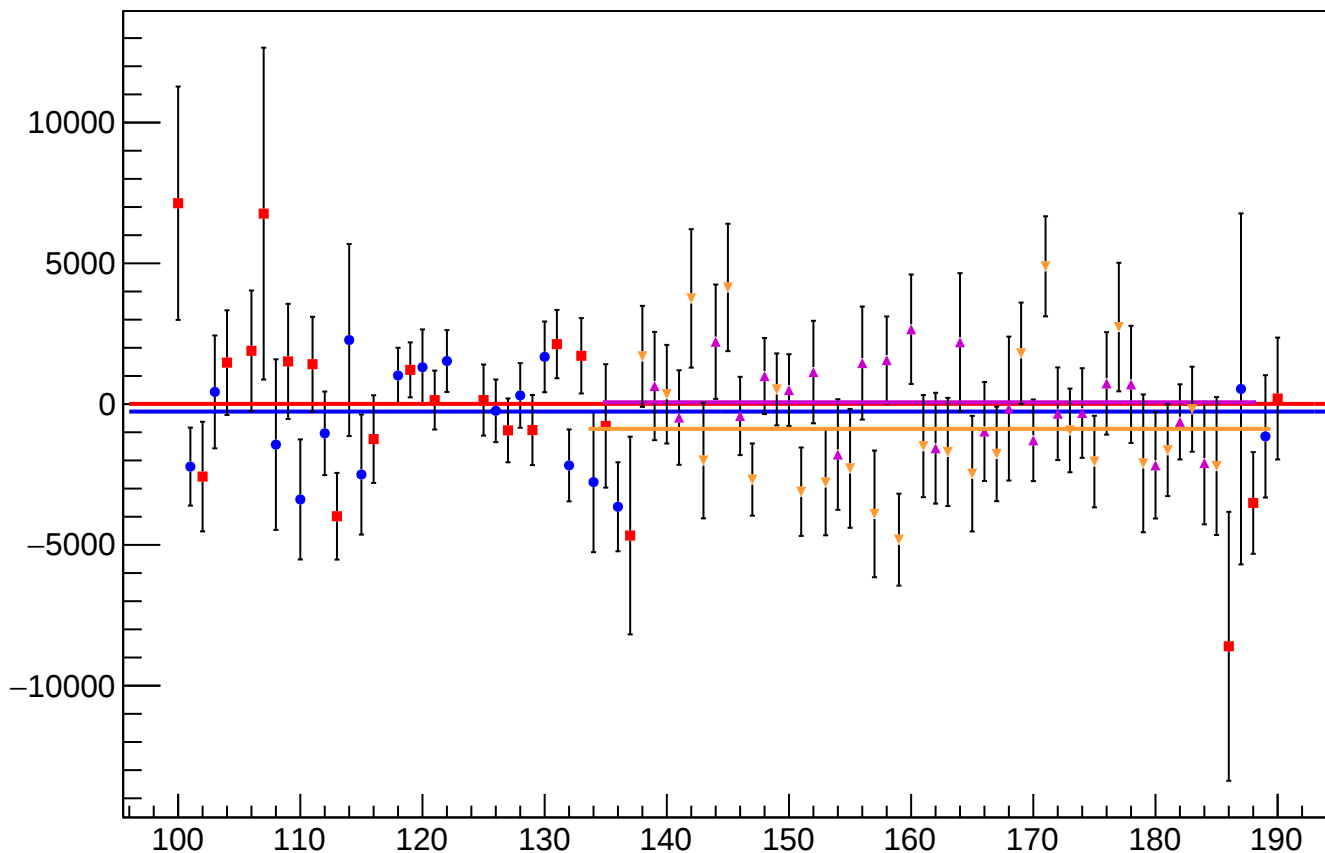
Right: 1115.064+/-0.198 χ^2/NDF : 40321.0/38

In: 1116.729+/-0.159 χ^2/NDF : 30443.7/40

Out: 1127.438+/-0.154 χ^2/NDF : 878454.7/45

All: 1122.238+/-0.111 χ^2/NDF : 911233.5/86

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -264.656 ± 356.003 $\chi^2/\text{NDF}: 22.7/17$

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

Right Out: 8.702 ± 345.321 $\chi^2/\text{NDF}: 32.5/20$

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

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

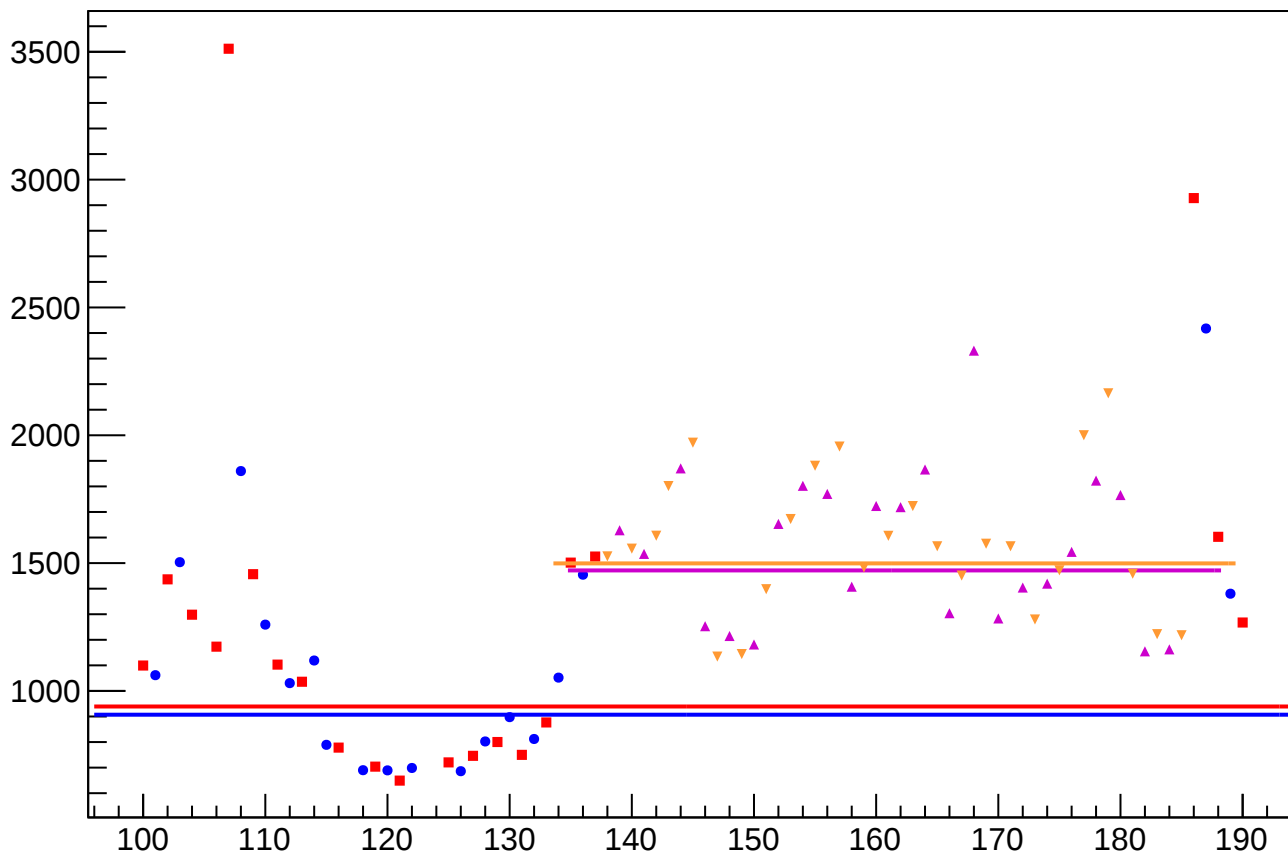
Right: -123.814 ± 247.869 $\chi^2/\text{NDF}: 55.5/38$

In: -100.745 ± 252.710 $\chi^2/\text{NDF}: 35.3/40$

Out: -422.351 ± 247.764 $\chi^2/\text{NDF}: 79.3/45$

All: -264.726 ± 176.918 $\chi^2/\text{NDF}: 115.4/86$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 906.991 $\pm$ 0.252 χ^2 /NDF: 1270102.7/17

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

Right Out: 939.116 $\pm$ 0.244 χ^2 /NDF: 2105553.7/20

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

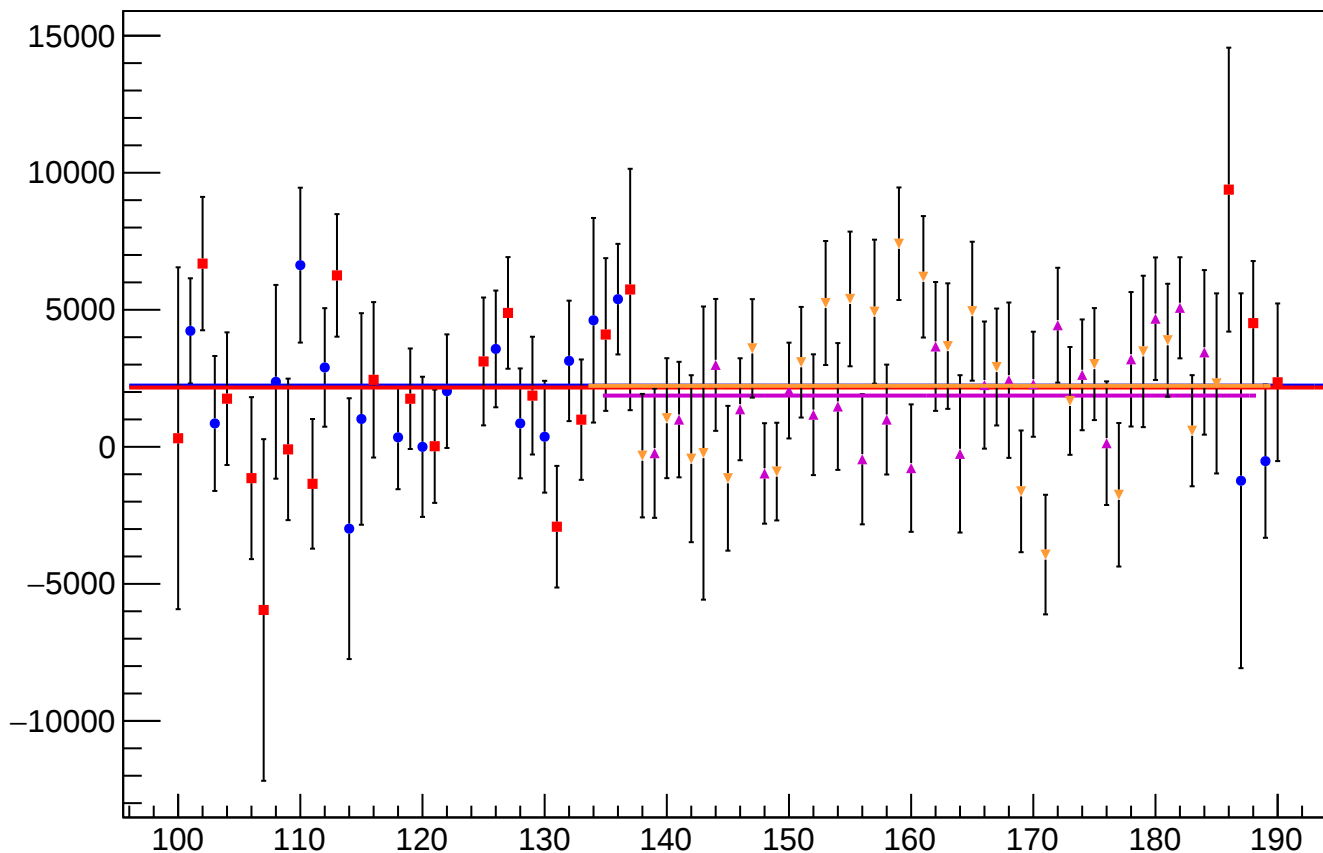
Right: 923.542 $\pm$ 0.175 χ^2 /NDF: 3384047.4/38

In: 1186.995 $\pm$ 0.179 χ^2 /NDF:4869299.0/40

Out: 1210.703 $\pm$ 0.175 χ^2 /NDF:5709077.3/45

All: 1199.083 $\pm$ 0.125 χ^2 /NDF: 10587351.1/8

asym_usl_mean vs Slug, Sign Corrected



Right In: 2234.020 $\pm$ 575.904 χ^2 /NDF: 12.9/17

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

Right Out: 2163.513 $\pm$ 552.535 χ^2 /NDF: 25.6/20

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

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

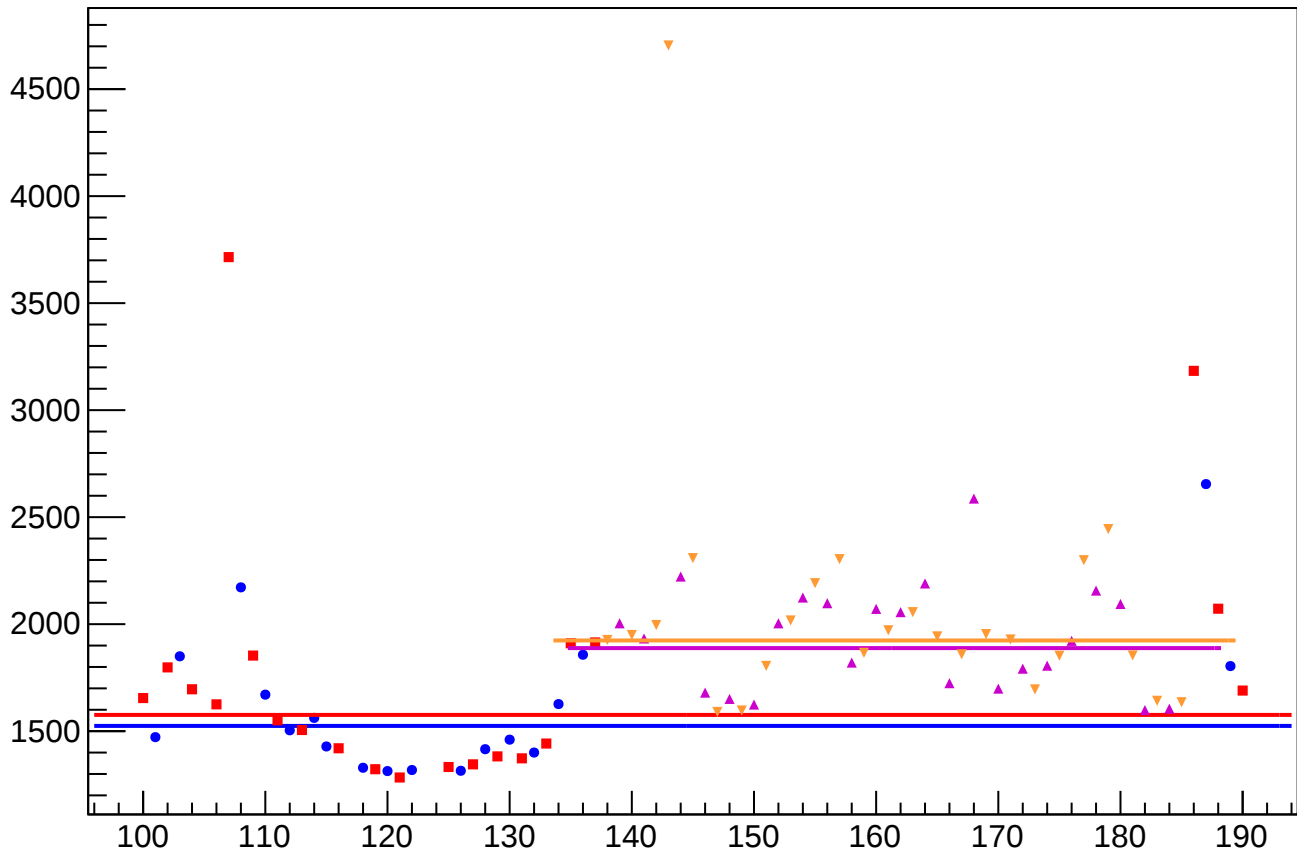
Right: 2197.307 $\pm$ 398.707 χ^2 /NDF: 38.6/38

In: 2009.945 $\pm$ 357.244 χ^2 /NDF:28.1/40

Out: 2201.079 $\pm$ 351.155 χ^2 /NDF:64.4/45

All: 2107.155 $\pm$ 250.429 χ^2 /NDF: 92.6/86

asym_usl_rms vs Slug, Sign Corrected



Right In: 1524.569+/-0.407 χ^2/NDF : 329216.9/17

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

Right Out: 1575.985+/-0.391 χ^2/NDF : 788063.5/20

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

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

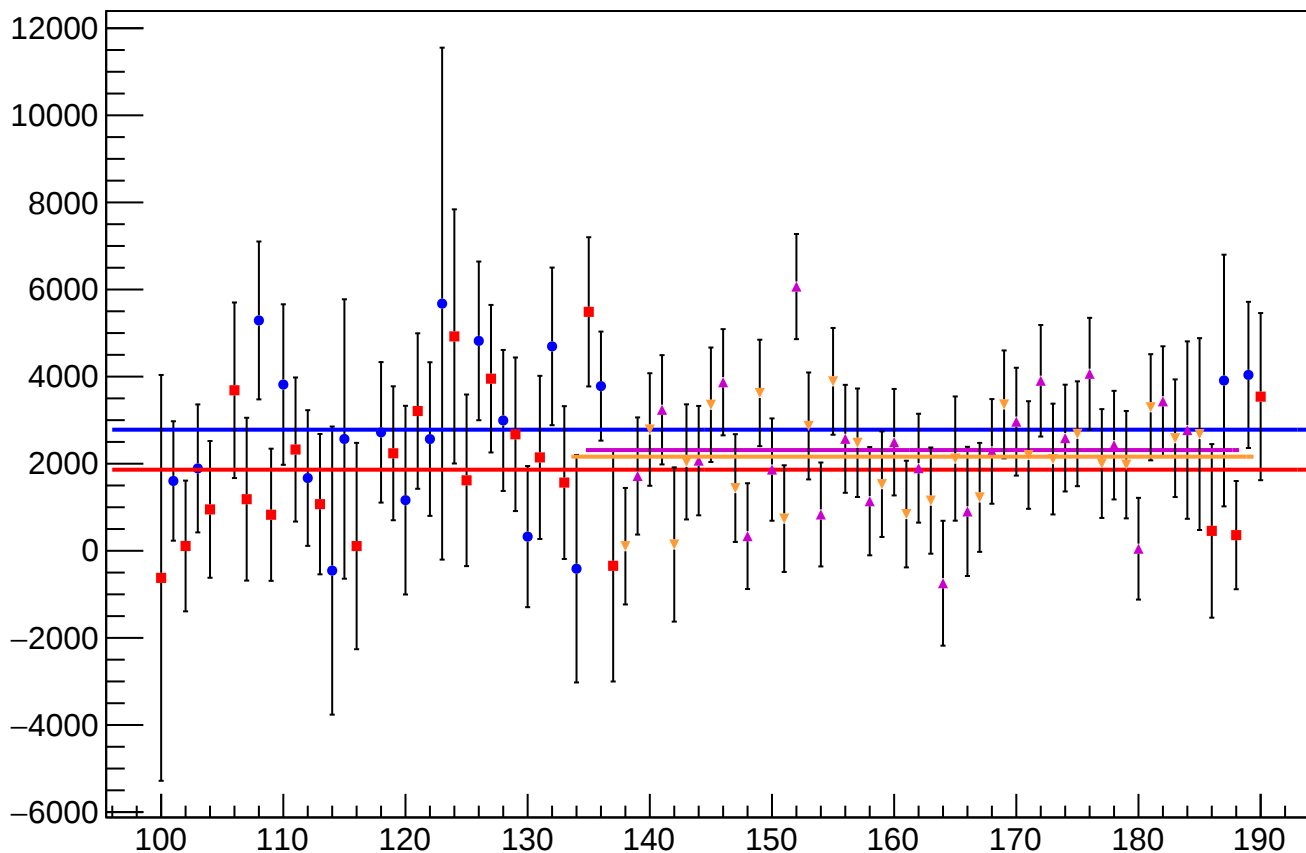
Right: 1551.341+/-0.282 χ^2/NDF : 1125581.2/38

In: 1748.228+/-0.253 χ^2/NDF : 1324109.6/40

Out: 1783.336+/-0.248 χ^2/NDF : 2266720.0/45

All: 1766.084+/-0.177 χ^2/NDF : 3600653.5/86

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2781.176 $\pm$ 416.303 χ^2 /NDF: 13.2/18

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

Right Out: 1862.493 $\pm$ 382.482 χ^2 /NDF: 15.7/21

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

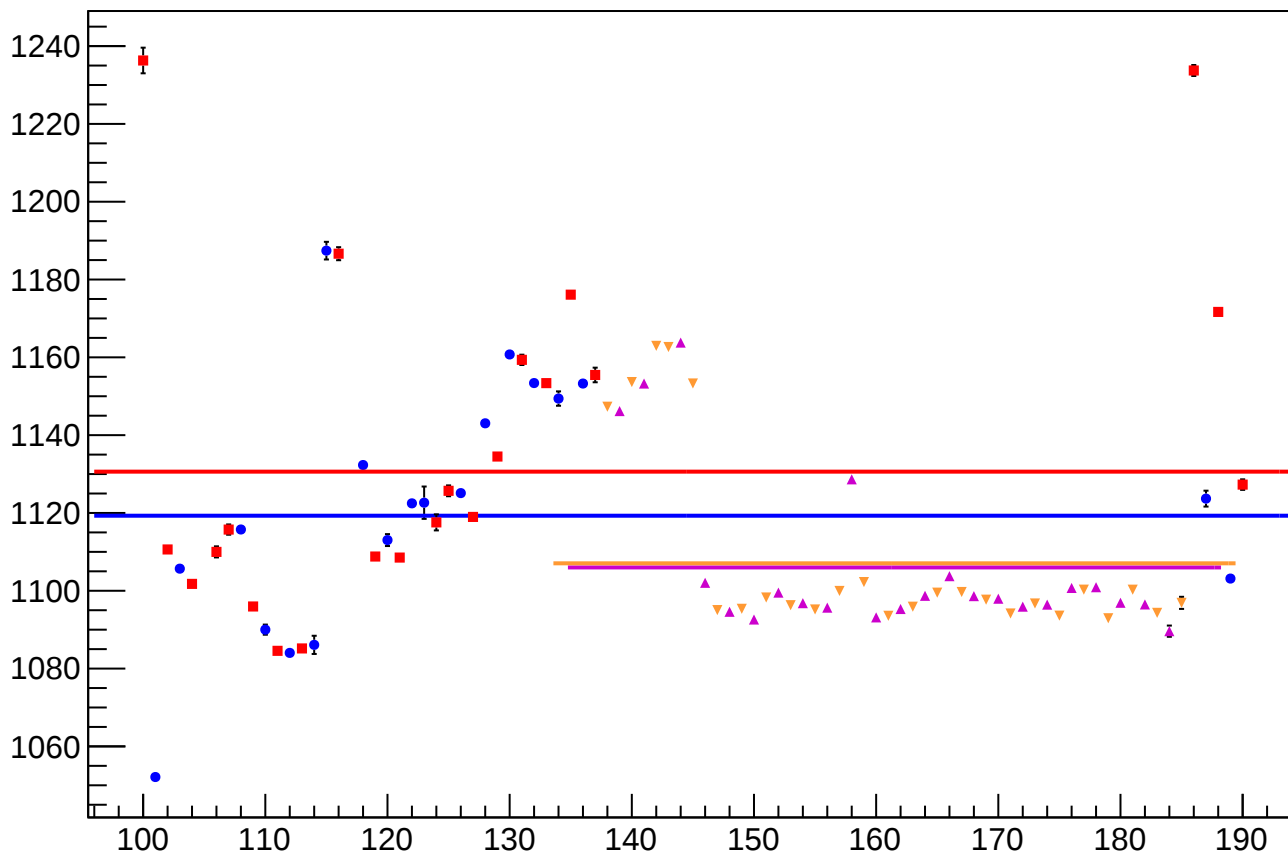
Right: 2283.007 $\pm$ 281.655 χ^2 /NDF: 31.5/40

In: 2447.948 $\pm$ 223.208 χ^2 /NDF:45.3/41

Out: 2068.185 $\pm$ 213.613 χ^2 /NDF:31.2/46

All: 2249.730 $\pm$ 154.328 χ^2 /NDF: 78.0/88

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1119.293 $\pm$ 0.294 χ^2 /NDF: 12163.0/18

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

Right Out: 1130.621 $\pm$ 0.270 χ^2 /NDF: 18496.6/21

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

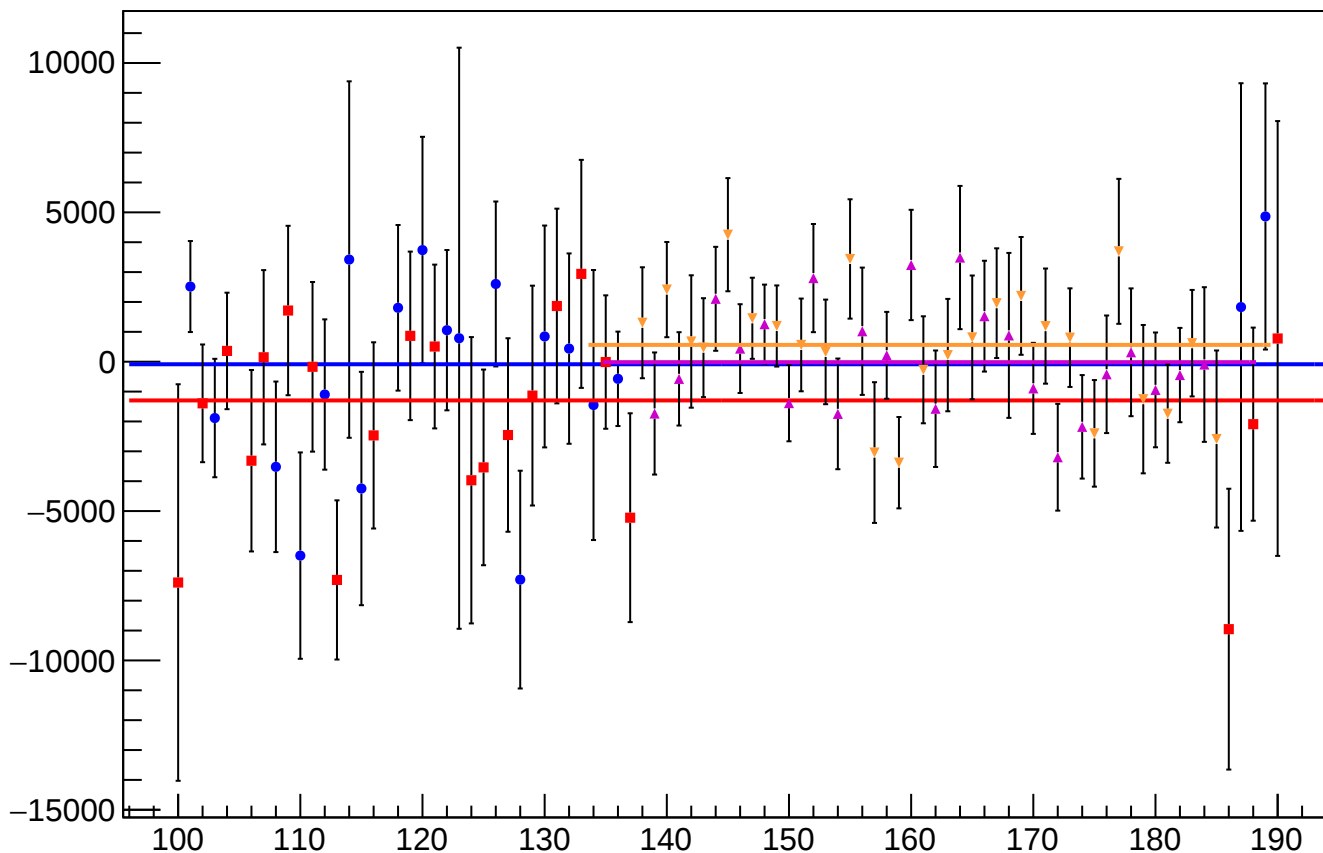
Right: 1125.436 $\pm$ 0.199 χ^2 /NDF: 31462.5/40

In: 1109.819 $\pm$ 0.158 χ^2 /NDF:25168.1/41

Out: 1114.407 $\pm$ 0.151 χ^2 /NDF:38895.6/46

All: 1112.214 $\pm$ 0.109 χ^2 /NDF: 64504.7/88

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -85.156 $\pm$ 647.186 χ^2/NDF : 18.4/18

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

Right Out: -1296.251 $\pm$ 641.381 χ^2/NDF : 17.3/21

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

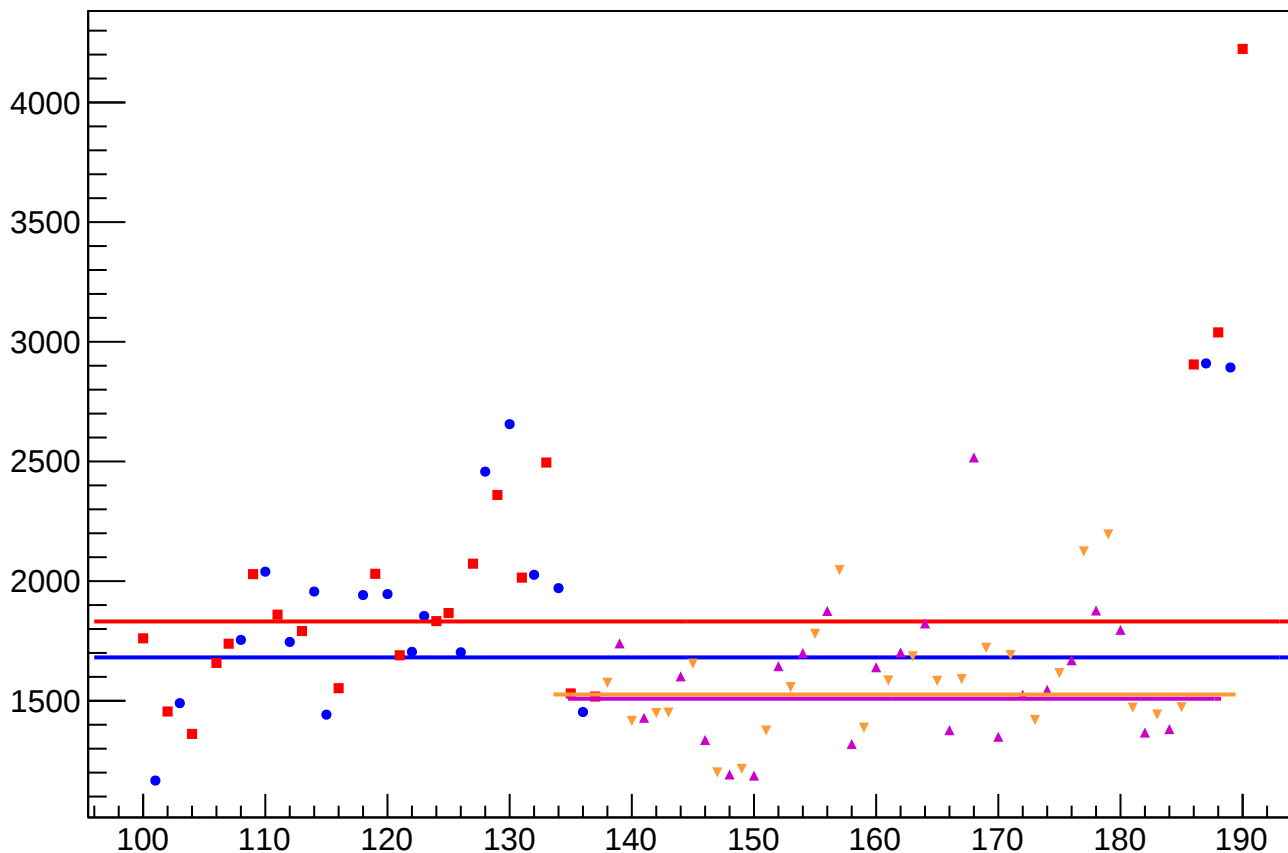
Right: -696.159 $\pm$ 455.563 χ^2/NDF : 37.4/40

In: -32.454 $\pm$ 319.147 χ^2/NDF : 38.5/41

Out: 116.097 $\pm$ 314.527 χ^2/NDF : 50.4/46

All: 42.905 $\pm$ 224.020 χ^2/NDF : 89.0/88

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1681.327 ± 0.458 $\chi^2/\text{NDF}: 814229.8/18$

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

Right Out: 1831.443 ± 0.454 $\chi^2/\text{NDF}: 1010889.0/21$

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

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

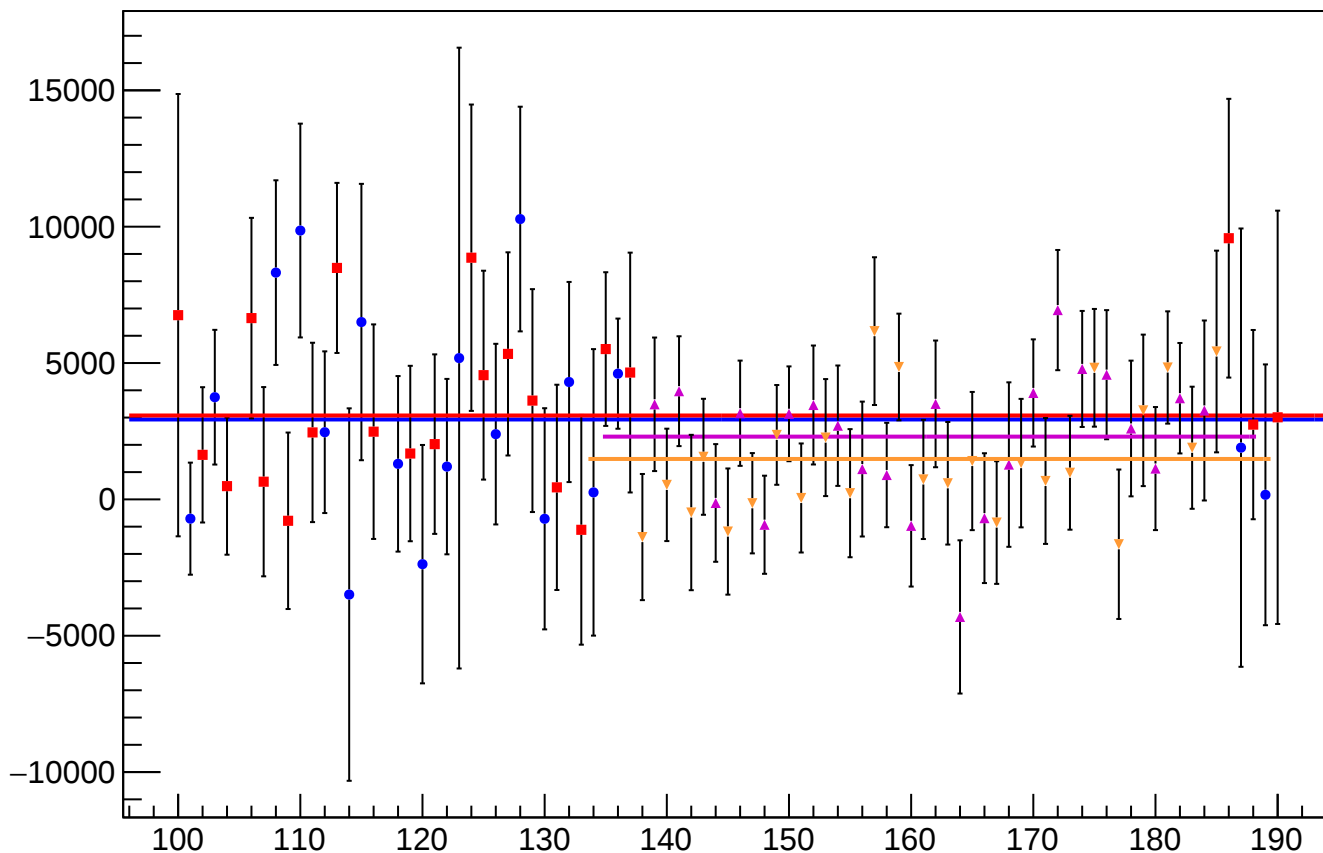
Right: 1757.061 ± 0.322 $\chi^2/\text{NDF}: 1879405.4/40$

In: 1550.589 ± 0.226 $\chi^2/\text{NDF}: 1853754.9/41$

Out: 1599.751 ± 0.222 $\chi^2/\text{NDF}: 2108227.8/46$

All: 1575.528 ± 0.158 $\chi^2/\text{NDF}: 3986057.5/88$

asym_usr_mean vs Slug, Sign Corrected



Right In: 2930.059 $\pm$ 789.053 χ^2 /NDF: 17.8/18

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

Right Out: 3076.318 $\pm$ 764.178 χ^2 /NDF: 13.4/21

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

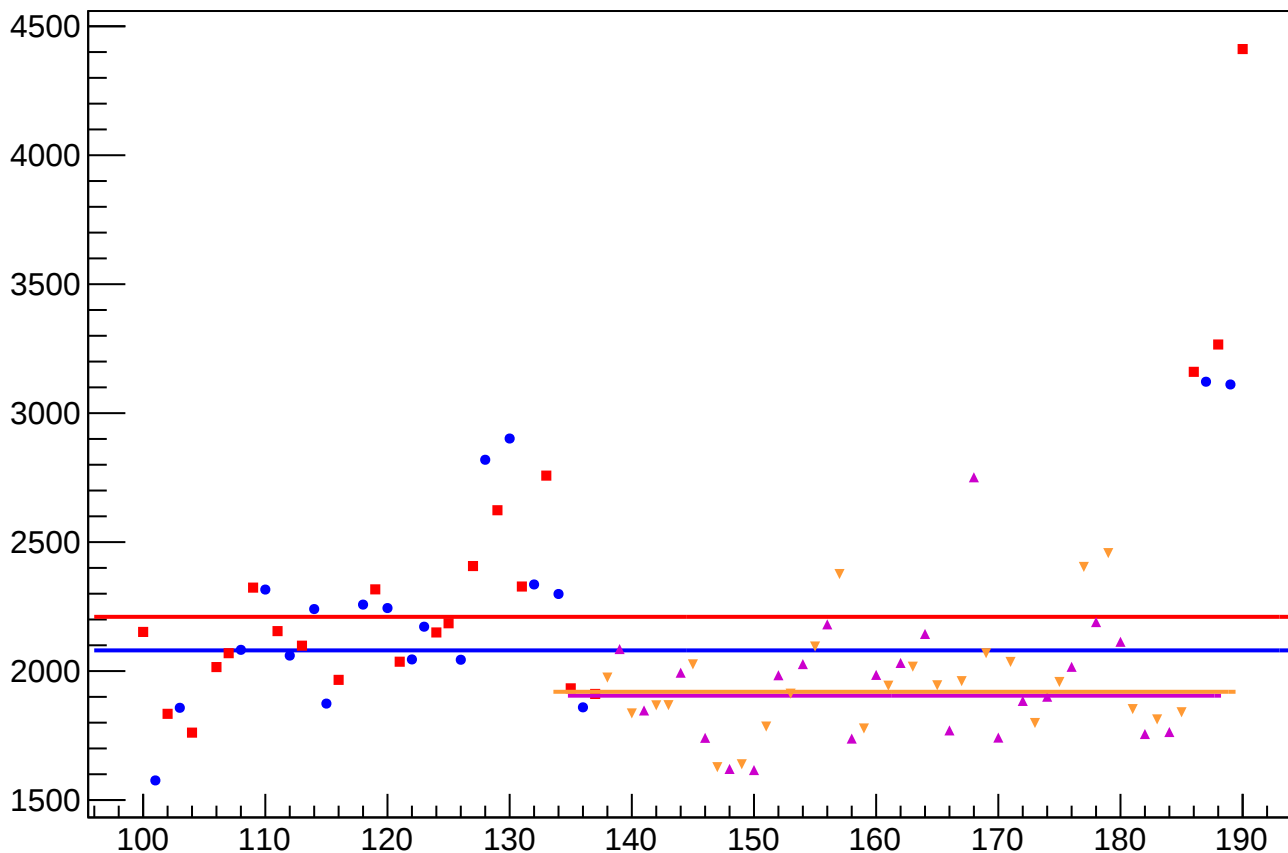
Right: 3005.530 $\pm$ 548.939 χ^2 /NDF: 31.2/40

In: 2460.251 $\pm$ 396.780 χ^2 /NDF:43.1/41

Out: 1892.754 $\pm$ 387.752 χ^2 /NDF:37.6/46

All: 2169.973 $\pm$ 277.319 χ^2 /NDF: 81.7/88

asym_usr_rms vs Slug, Sign Corrected



Right In: 2080.206+/-0.558 $\chi^2/\text{NDF}: 467980.9/18$

Left Out: 1919.732+/-0.318 $\chi^2/\text{NDF}: 366218.1/24$

Right Out: 2210.300+/-0.540 $\chi^2/\text{NDF}: 653506.2/21$

Left In: 1904.629+/-0.325 $\chi^2/\text{NDF}: 447350.7/22$

Left: 1912.331+/-0.227 $\chi^2/\text{NDF}: 814672.9/47$

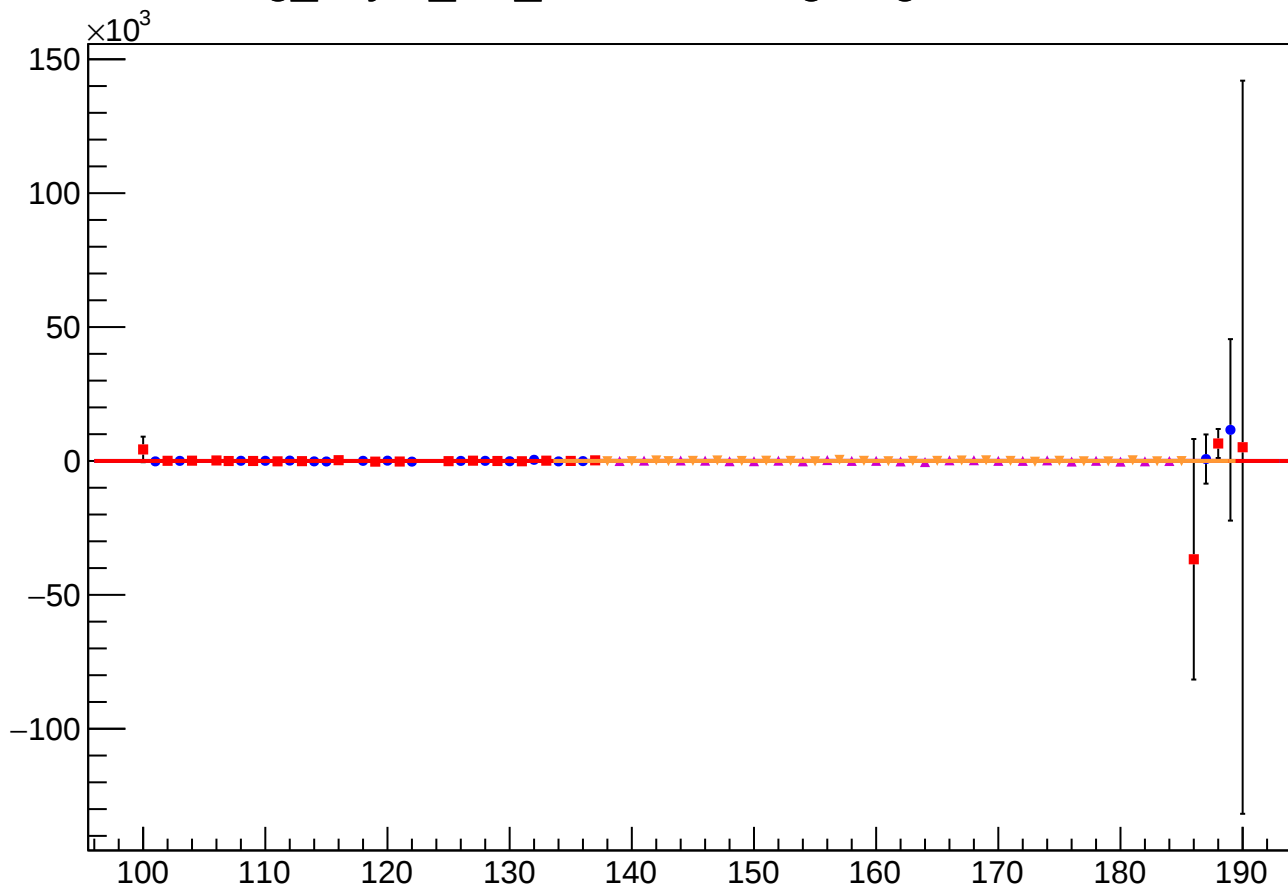
Right: 2147.336+/-0.388 $\chi^2/\text{NDF}: 1149540.9/40$

In: 1949.026+/-0.281 $\chi^2/\text{NDF}: 989318.5/41$

Out: 1994.543+/-0.274 $\chi^2/\text{NDF}: 1234435.2/46$

All: 1972.308+/-0.196 $\chi^2/\text{NDF}: 2237216.5/88$

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.745 ± 36.771 $\chi^2/\text{NDF}: 16.6/17$

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

Right Out: 1.736 ± 36.755 $\chi^2/\text{NDF}: 15.9/20$

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

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

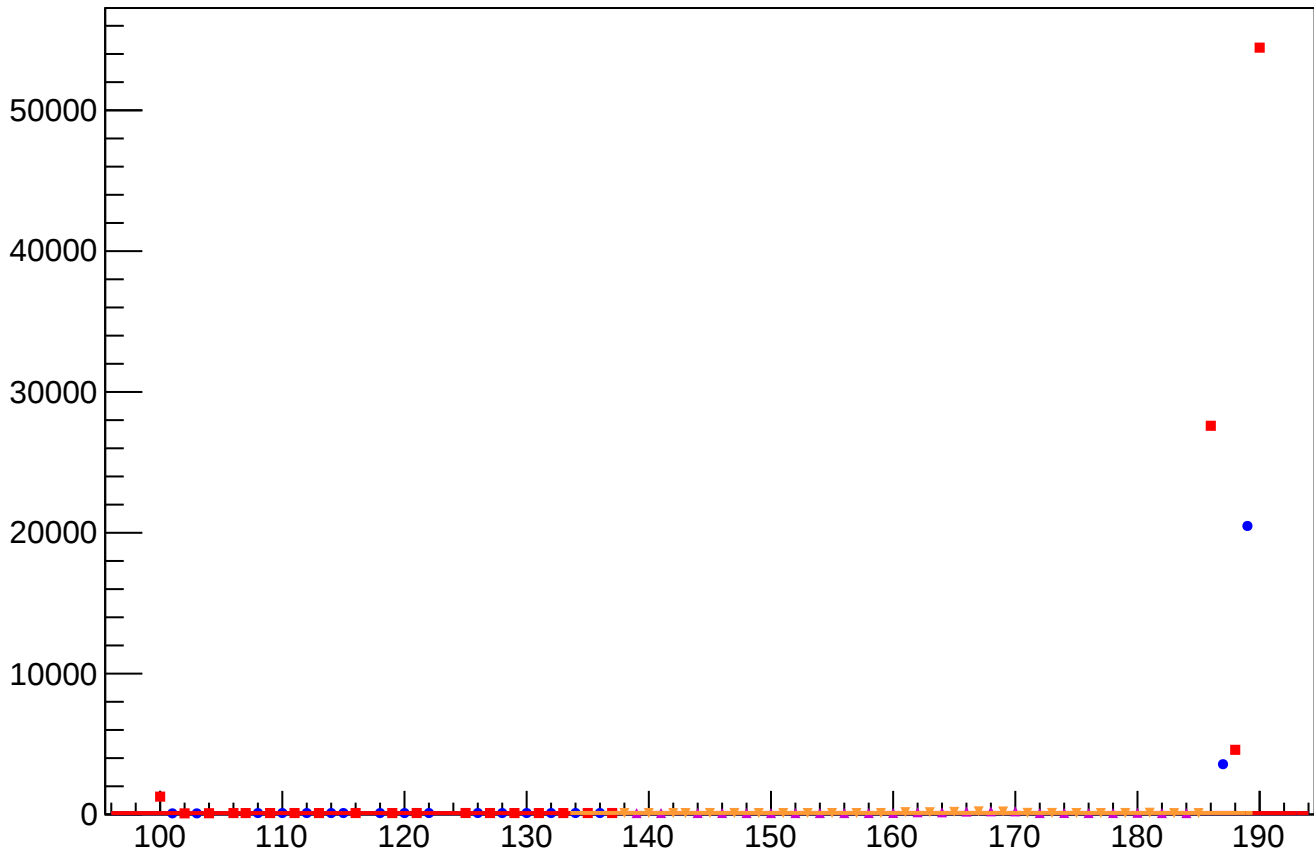
Right: 0.496 ± 25.995 $\chi^2/\text{NDF}: 32.5/38$

In: 16.127 ± 21.415 $\chi^2/\text{NDF}: 53.4/40$

Out: 5.693 ± 20.992 $\chi^2/\text{NDF}: 52.4/45$

All: 10.806 ± 14.991 $\chi^2/\text{NDF}: 105.9/86$

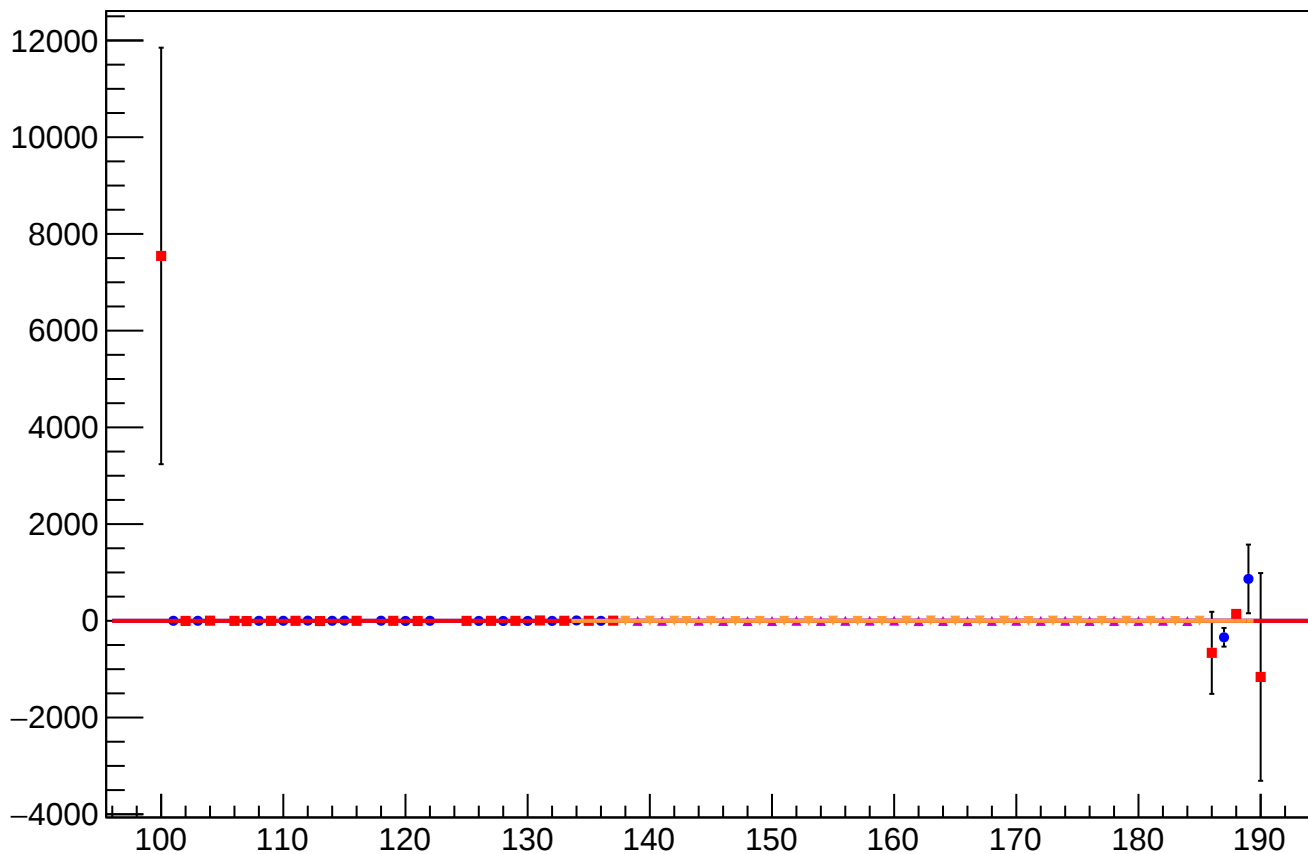
reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.127+/-0.026 χ^2/NDF : 1163537.4/17
Left Out: 107.590+/-0.018 χ^2/NDF : 1447372.1/24
Right Out: 96.588+/-0.026 χ^2/NDF : 2691782.7/20
Left In: 107.672+/-0.019 χ^2/NDF : 1491034.7/22

Left: 107.630+/-0.013 χ^2/NDF : 2938417.0/47
Right: 95.358+/-0.018 χ^2/NDF : 3859800.8/38
In: 103.078+/-0.015 χ^2/NDF : 2833921.9/40
Out: 104.001+/-0.015 χ^2/NDF : 4259902.7/45
All: 103.549+/-0.011 χ^2/NDF : 7095718.7/86

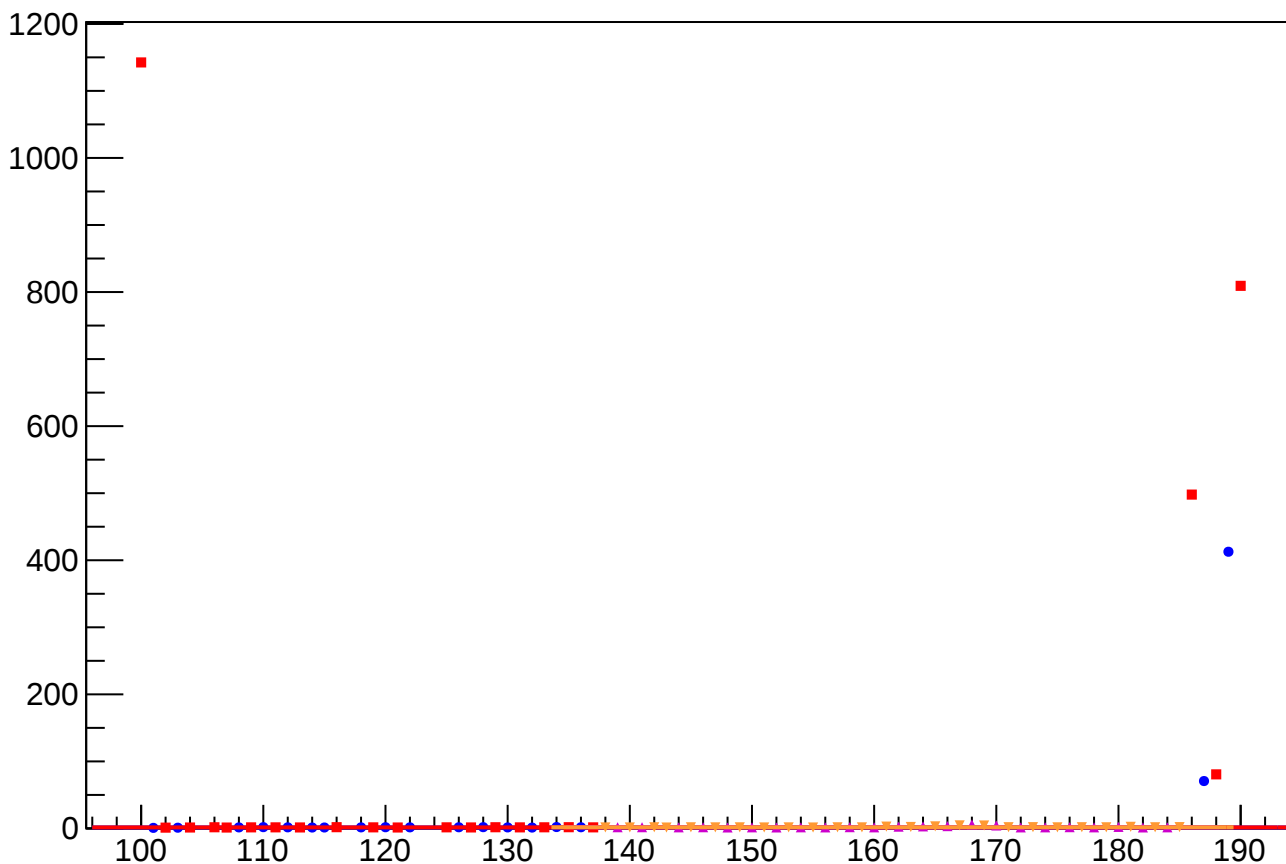
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.617 $\chi^2/\text{NDF}: 15.0/17$
Left Out: -0.765 ± 0.459 $\chi^2/\text{NDF}: 34.1/24$
Right Out: -0.339 ± 0.644 $\chi^2/\text{NDF}: 23.8/20$
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 $\chi^2/\text{NDF}: 39.5/38$
In: 0.106 ± 0.381 $\chi^2/\text{NDF}: 40.3/40$
Out: -0.621 ± 0.374 $\chi^2/\text{NDF}: 58.3/45$
All: -0.265 ± 0.267 $\chi^2/\text{NDF}: 100.5/86$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.421+/-0.000 χ^2/NDF : 1643579.7/17

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

Right Out: 1.558+/-0.000 χ^2/NDF : 2485757.9/20

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

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

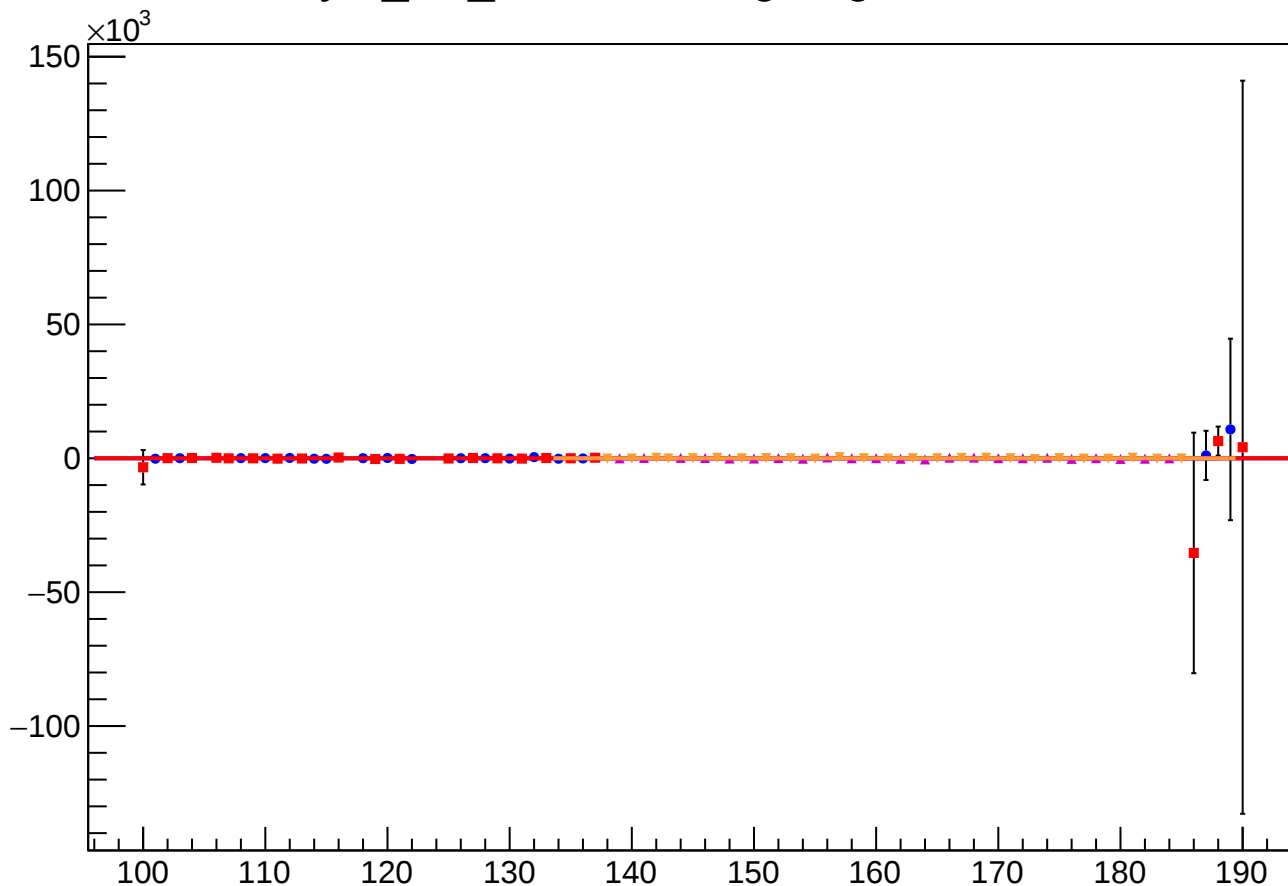
Right: 1.487+/-0.000 χ^2/NDF : 4176816.2/38

In: 1.657+/-0.000 χ^2/NDF : 4037541.4/40

Out: 1.683+/-0.000 χ^2/NDF : 4282528.1/45

All: 1.670+/-0.000 χ^2/NDF : 8324814.6/86

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.444 ± 36.781 $\chi^2/\text{NDF}: 16.8/17$

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

Right Out: 1.496 ± 36.765 $\chi^2/\text{NDF}: 15.3/20$

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

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

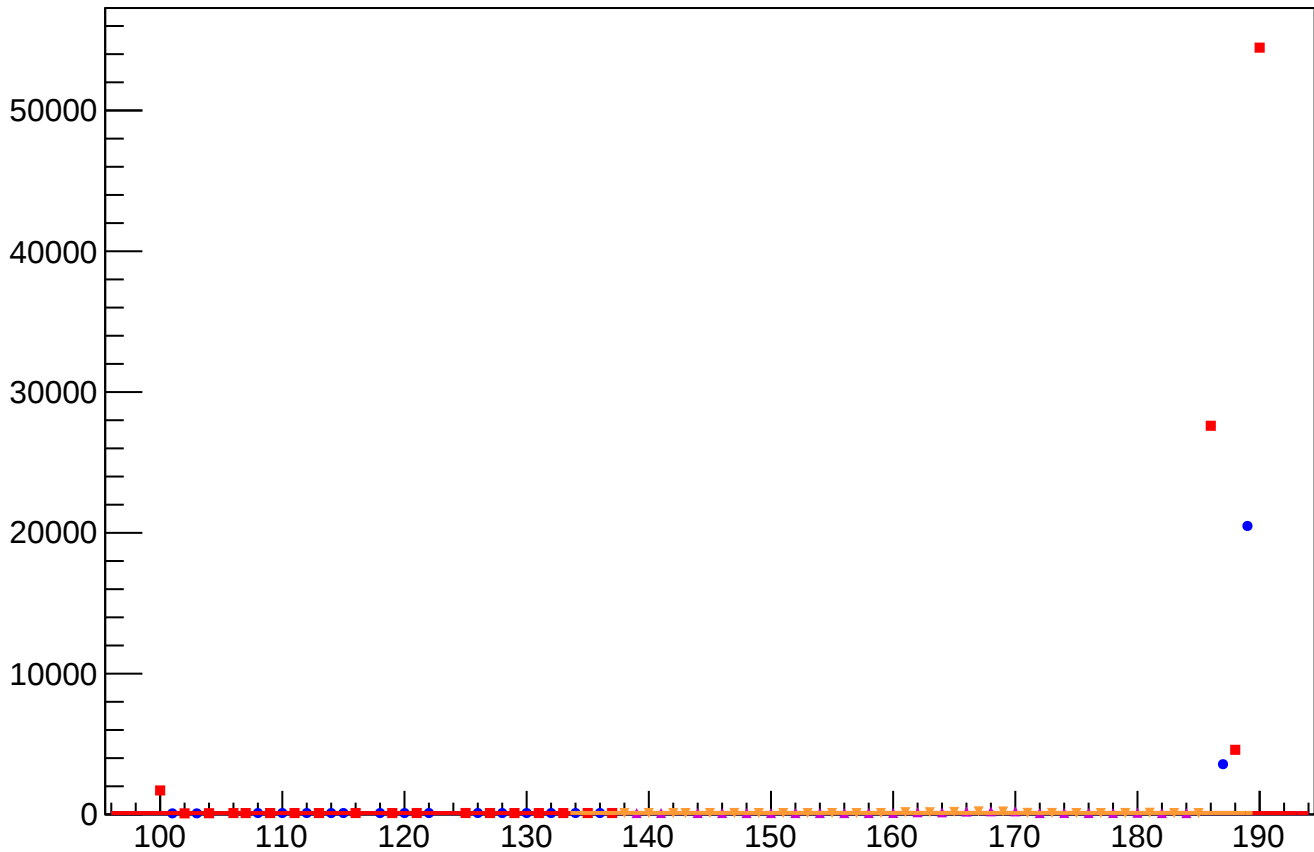
Right: 0.526 ± 26.002 $\chi^2/\text{NDF}: 32.1/38$

In: 16.576 ± 21.421 $\chi^2/\text{NDF}: 52.8/40$

Out: 6.156 ± 20.998 $\chi^2/\text{NDF}: 51.7/45$

All: 11.262 ± 14.995 $\chi^2/\text{NDF}: 104.6/86$

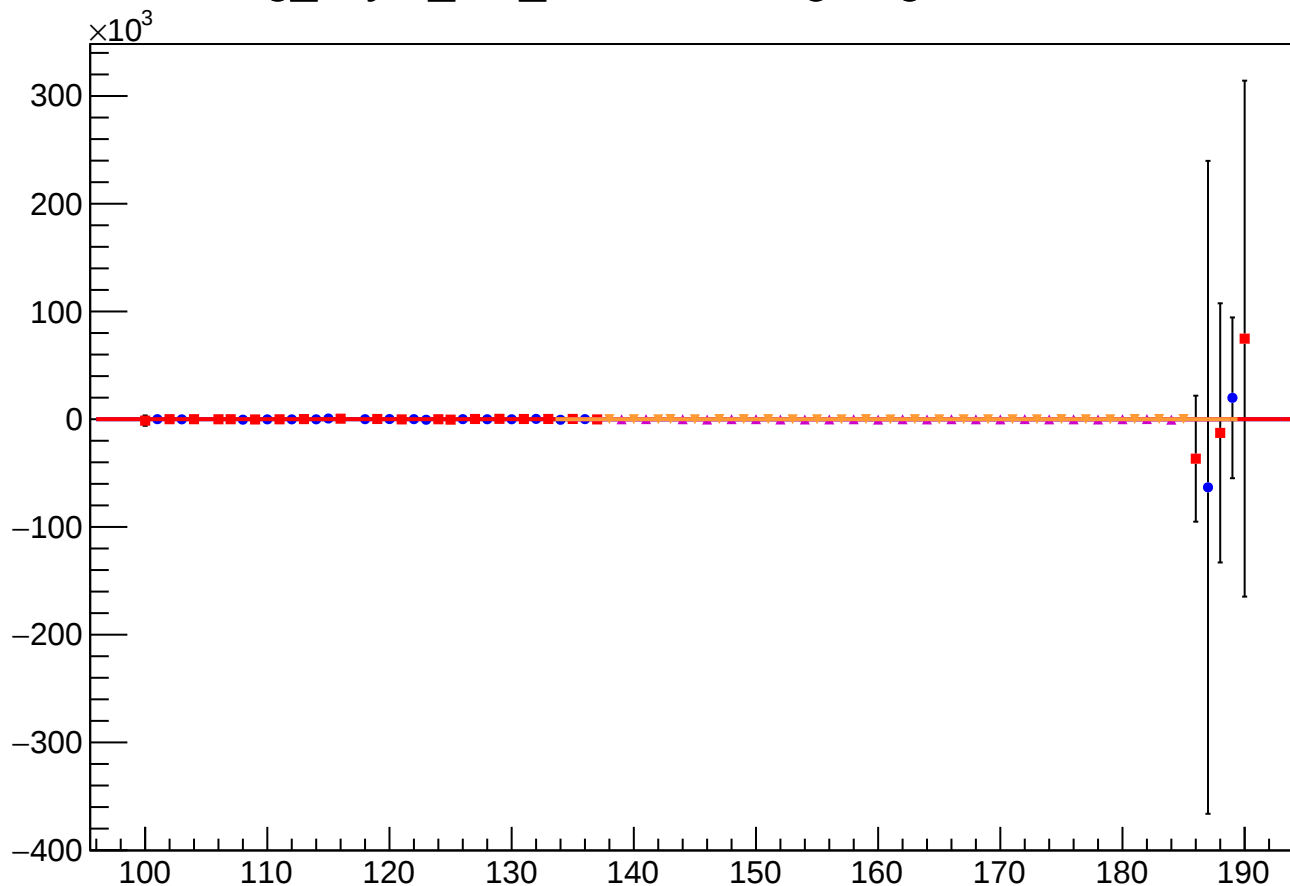
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.151+/-0.026 χ^2/NDF : 1163535.5/17
 Left Out: 107.620+/-0.018 χ^2/NDF : 1448769.2/24
 Right Out: 96.597+/-0.026 χ^2/NDF : 2696953.5/20
 Left In: 107.703+/-0.019 χ^2/NDF : 1492338.5/22

Left: 107.660+/-0.013 χ^2/NDF : 2941117.9/47
 Right: 95.374+/-0.018 χ^2/NDF : 3864911.3/38
 In: 103.106+/-0.015 χ^2/NDF : 2835296.4/40
 Out: 104.024+/-0.015 χ^2/NDF : 4266876.8/45
 All: 103.575+/-0.011 χ^2/NDF : 7104046.0/86

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.791 ± 46.841 $\chi^2/\text{NDF}: 14.5/18$

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 $\chi^2/\text{NDF}: 32.6/47$

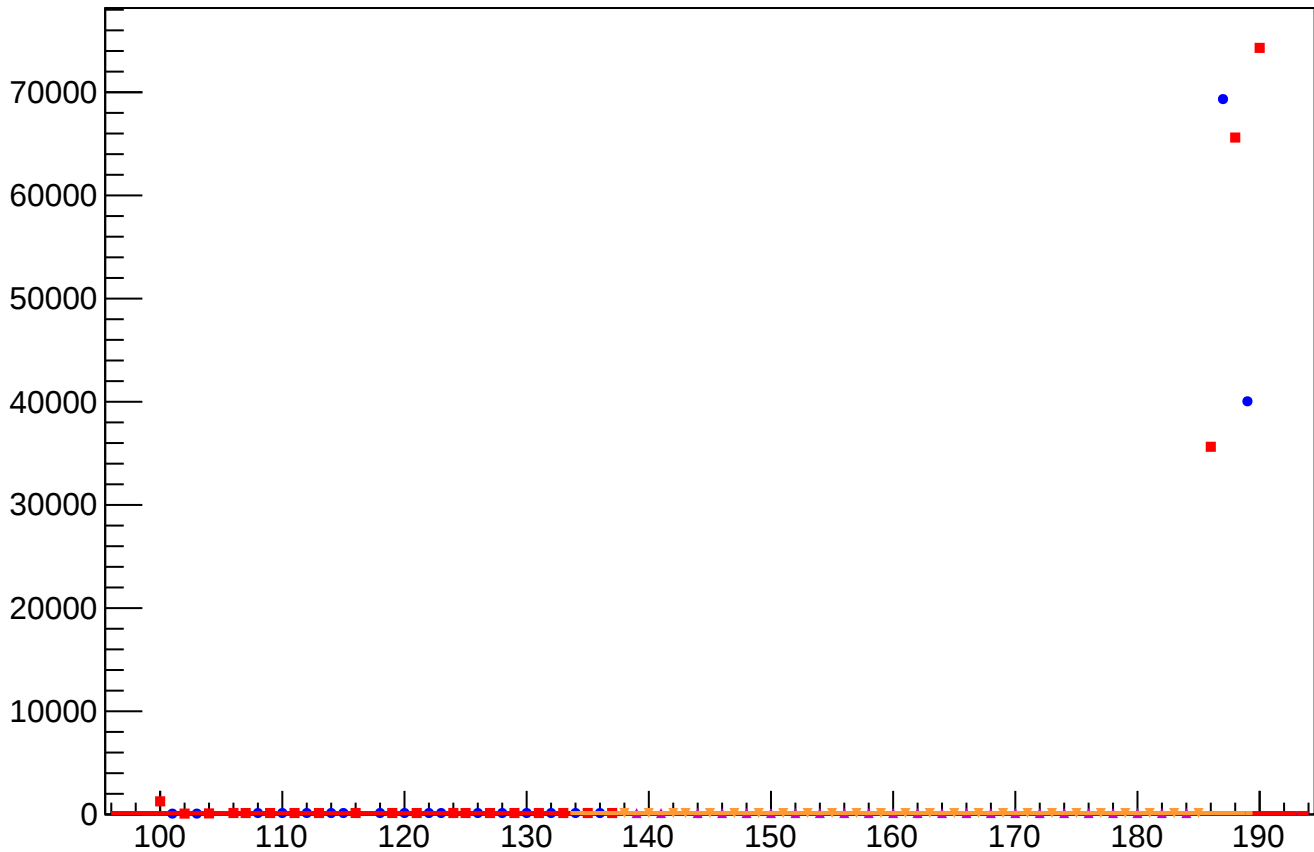
Right: 12.494 ± 33.447 $\chi^2/\text{NDF}: 31.9/40$

In: -52.579 ± 26.947 $\chi^2/\text{NDF}: 34.3/41$

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

All: -22.063 ± 18.939 $\chi^2/\text{NDF}: 66.0/88$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.780+/-0.033 χ^2/NDF : 1392351.4/18

Left Out: 137.856+/-0.023 χ^2/NDF : 443.5/24

Right Out: 124.764+/-0.034 χ^2/NDF : 2260988.7/21

Left In: 137.804+/-0.023 χ^2/NDF : 460.3/22

Left: 137.831+/-0.016 χ^2/NDF : 906.3/47

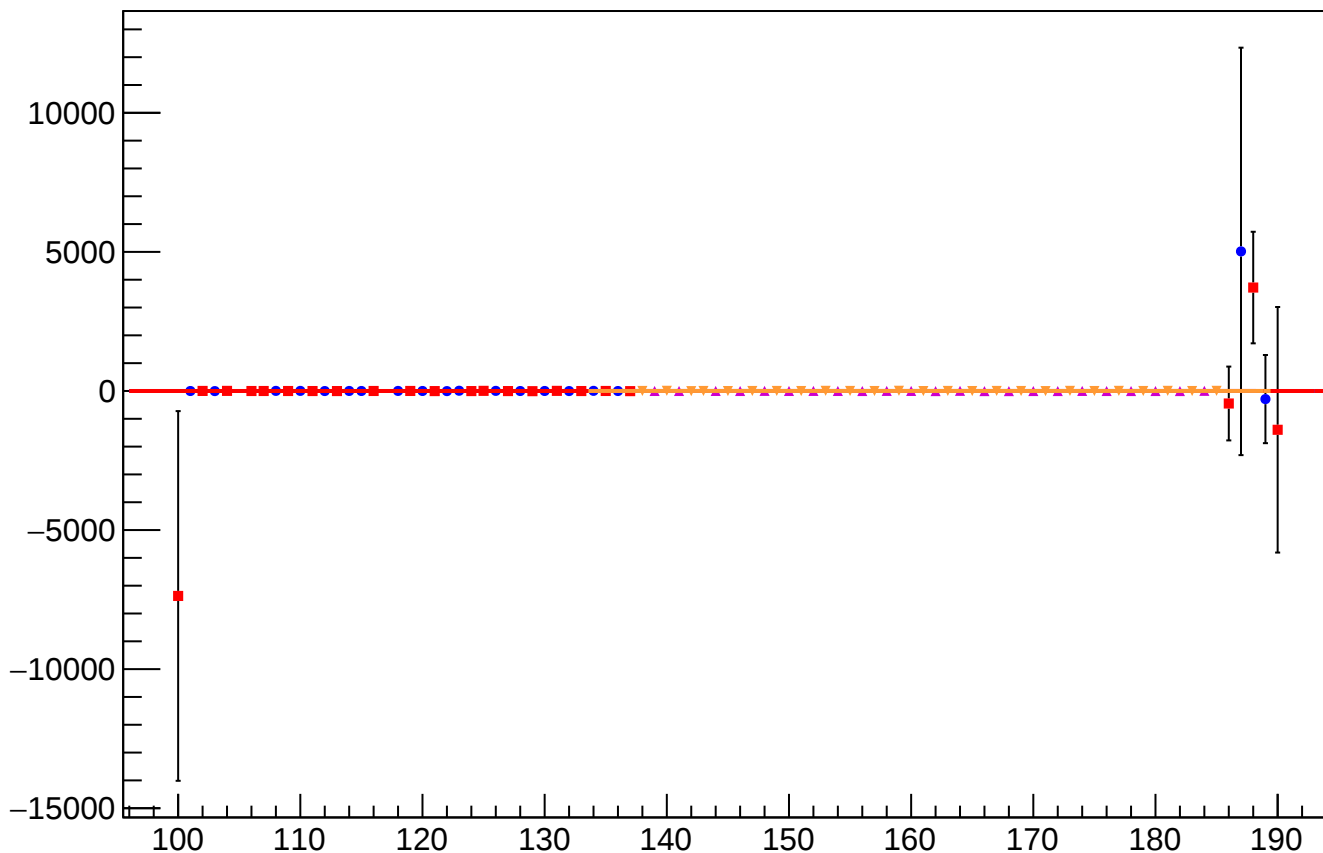
Right: 121.203+/-0.024 χ^2/NDF : 3675131.9/40

In: 131.177+/-0.019 χ^2/NDF : 1637355.6/41

Out: 133.791+/-0.019 χ^2/NDF : 2364992.2/46

All: 132.500+/-0.013 χ^2/NDF : 4011866.7/88

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 12.7/18

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 18.4/21

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

Right: -0.681 ± 0.587 χ^2/NDF : 31.1/40

In: -0.052 ± 0.471 χ^2/NDF : 34.4/41

Out: 0.139 ± 0.475 χ^2/NDF : 48.5/46

All: 0.043 ± 0.334 χ^2/NDF : 83.0/88

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866+/-0.001 χ^2/NDF : 1176080.7/18

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

Right Out: 2.064+/-0.001 χ^2/NDF : 1932125.7/21

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

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

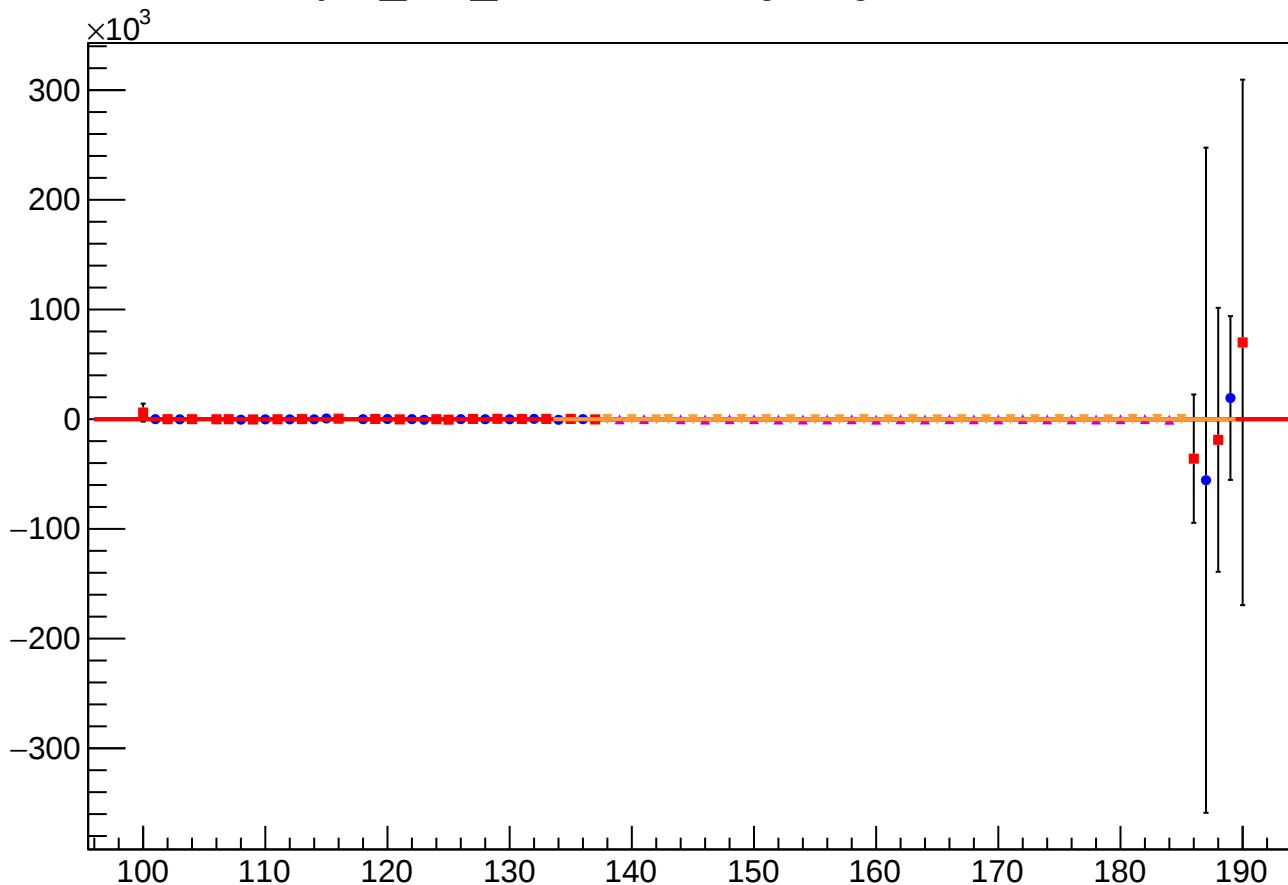
Right: 1.960+/-0.000 χ^2/NDF : 3165250.1/40

In: 2.082+/-0.000 χ^2/NDF : 1903195.9/41

Out: 2.200+/-0.000 χ^2/NDF : 2381362.7/46

All: 2.141+/-0.000 χ^2/NDF : 4347069.1/88

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.053 ± 46.854 $\chi^2/\text{NDF}: 14.6/18$

Left Out: -13.383 ± 32.072 $\chi^2/\text{NDF}: 11.8/24$

Right Out: 54.261 ± 47.789 $\chi^2/\text{NDF}: 16.6/21$

Left In: -65.231 ± 32.953 $\chi^2/\text{NDF}: 19.4/22$

Left: -38.605 ± 22.983 $\chi^2/\text{NDF}: 32.4/47$

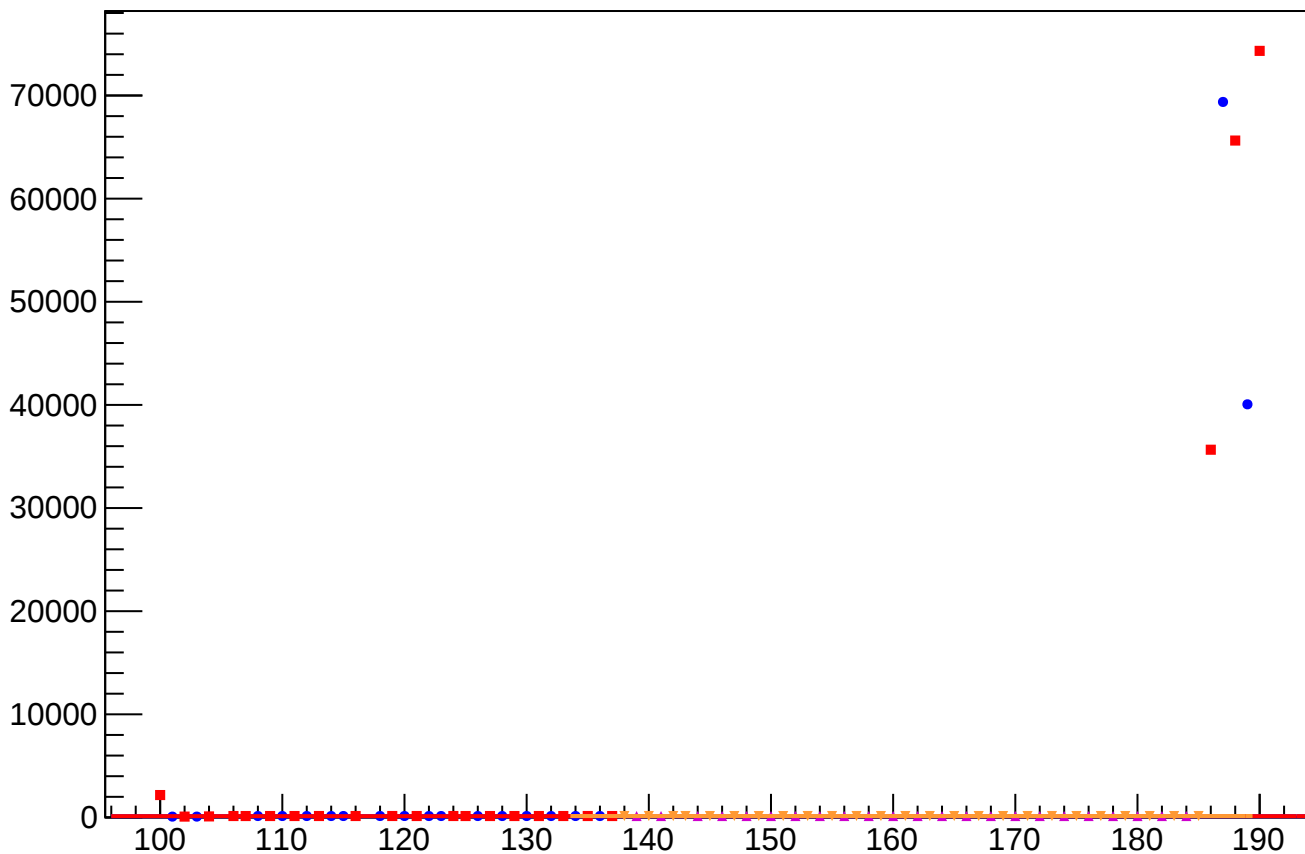
Right: 13.821 ± 33.456 $\chi^2/\text{NDF}: 32.6/40$

In: -51.934 ± 26.954 $\chi^2/\text{NDF}: 34.4/41$

Out: 7.623 ± 26.631 $\chi^2/\text{NDF}: 29.7/46$

All: -21.796 ± 18.944 $\chi^2/\text{NDF}: 66.6/88$

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.812+/-0.033 χ^2/NDF : 1392386.9/18

Left Out: 137.895+/-0.023 χ^2/NDF :440.9/24

Right Out: 124.753+/-0.034 χ^2/NDF : 2271575.4/21

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

Left: 137.870+/-0.016 χ^2/NDF : 900.6/47

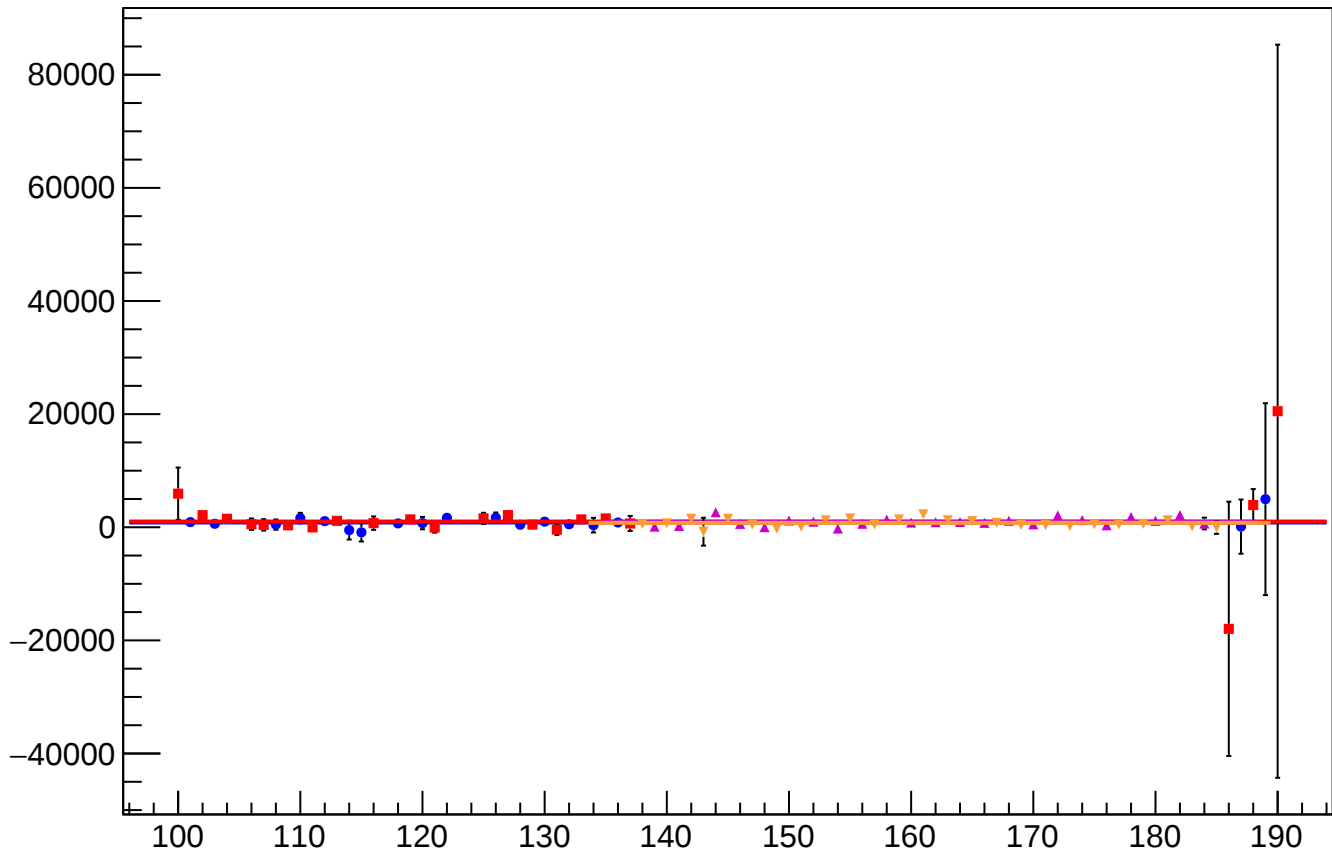
Right: 121.214+/-0.024 χ^2/NDF : 3685475.2/40

In: 131.214+/-0.019 χ^2/NDF :1637426.5/41

Out: 133.814+/-0.019 χ^2/NDF :2376303.1/46

All: 132.530+/-0.013 χ^2/NDF : 4023147.9/88

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 846.208+/-216.428 χ^2/NDF : 5.3/17

Left Out: 779.744+/-133.856 χ^2/NDF :19.6/24

Right Out: 1012.156+/-212.650 χ^2/NDF : 15.9/20

Left In: 974.402+/-134.932 χ^2/NDF :27.4/22

Left: 876.294+/-95.028 χ^2/NDF : 48.1/47

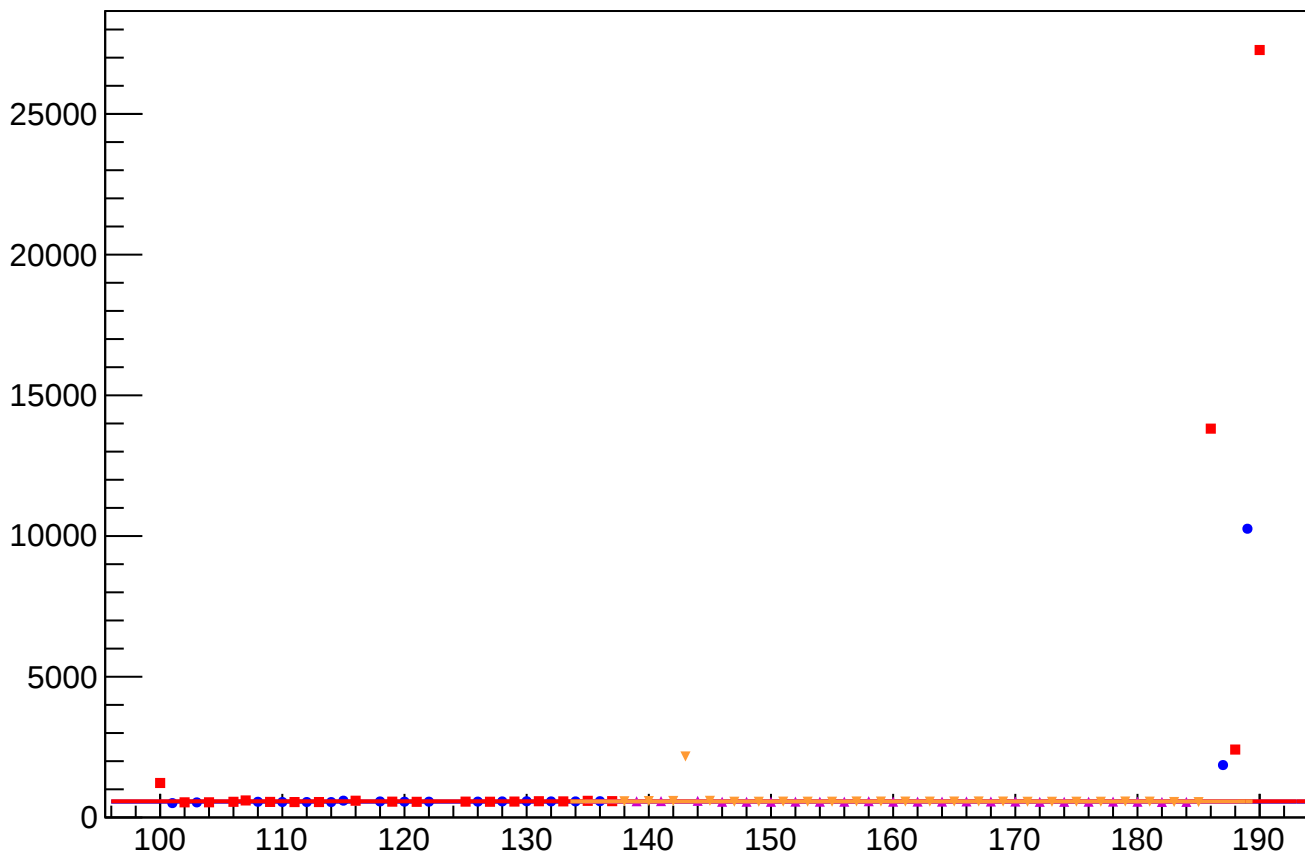
Right: 930.643+/-151.684 χ^2/NDF : 21.5/38

In: 938.521+/-114.502 χ^2/NDF :33.0/40

Out: 845.699+/-113.281 χ^2/NDF :36.4/45

All: 891.613+/-80.530 χ^2/NDF : 69.7/86

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 561.116+/-0.153 χ^2/NDF : 821064.8/17

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

Right Out: 574.392+/-0.150 χ^2/NDF : 1945008.6/20

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

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

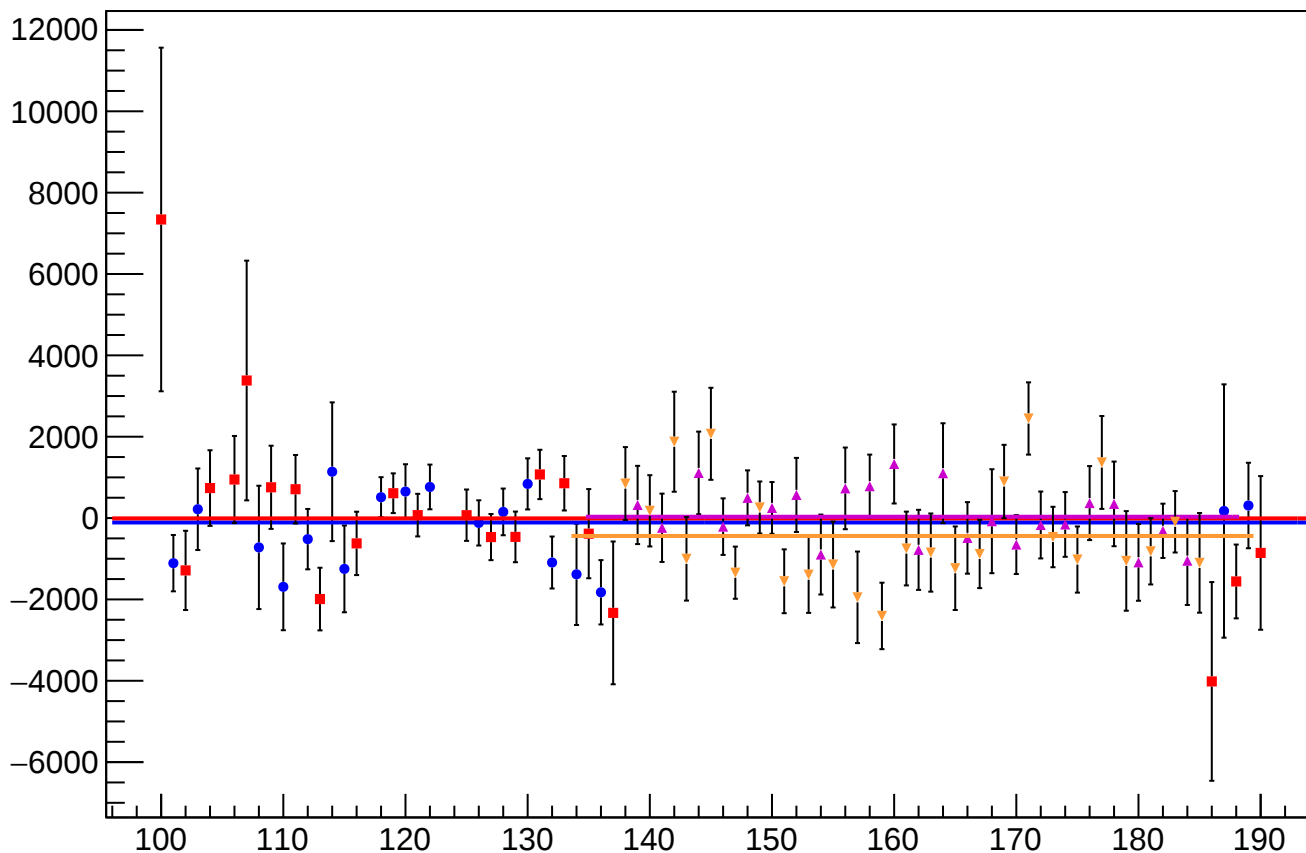
Right: 567.871+/-0.107 χ^2/NDF : 2769902.6/38

In: 563.469+/-0.081 χ^2/NDF : 830602.5/40

Out: 570.440+/-0.080 χ^2/NDF : 2799687.4/45

All: 566.992+/-0.057 χ^2/NDF : 3634036.9/86

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -108.478+/-177.880 χ^2/NDF : 22.7/17

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

Right Out: -7.583+/-174.719 χ^2/NDF : 31.4/20

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

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

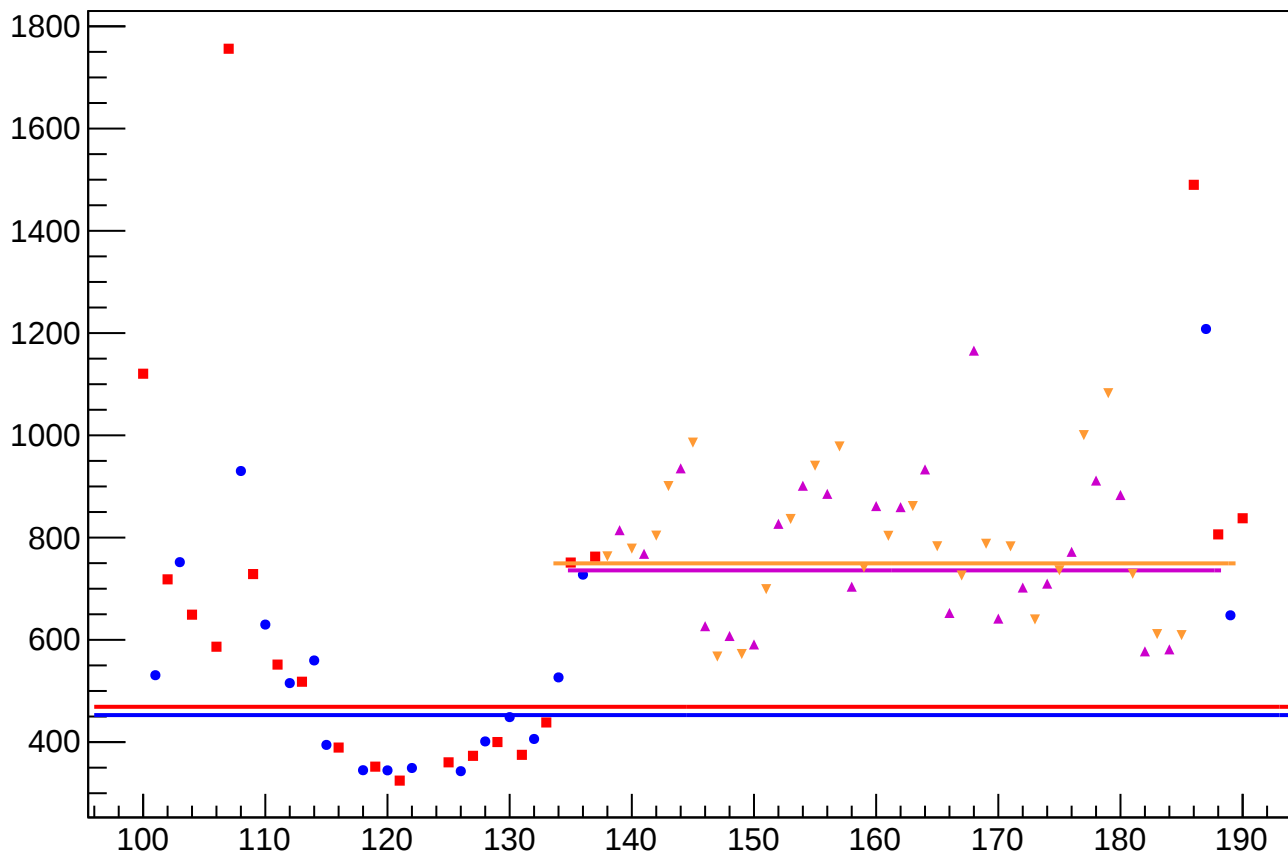
Right: -57.126+/-124.647 χ^2/NDF : 54.3/38

In: -38.645+/-126.325 χ^2/NDF : 35.2/40

Out: -219.922+/-124.649 χ^2/NDF : 77.9/45

All: -130.494+/-88.727 χ^2/NDF : 114.2/86

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 452.831 $\pm$ 0.126 χ^2/NDF : 1243546.0/17

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

Right Out: 469.045 $\pm$ 0.124 χ^2/NDF : 2186904.3/20

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

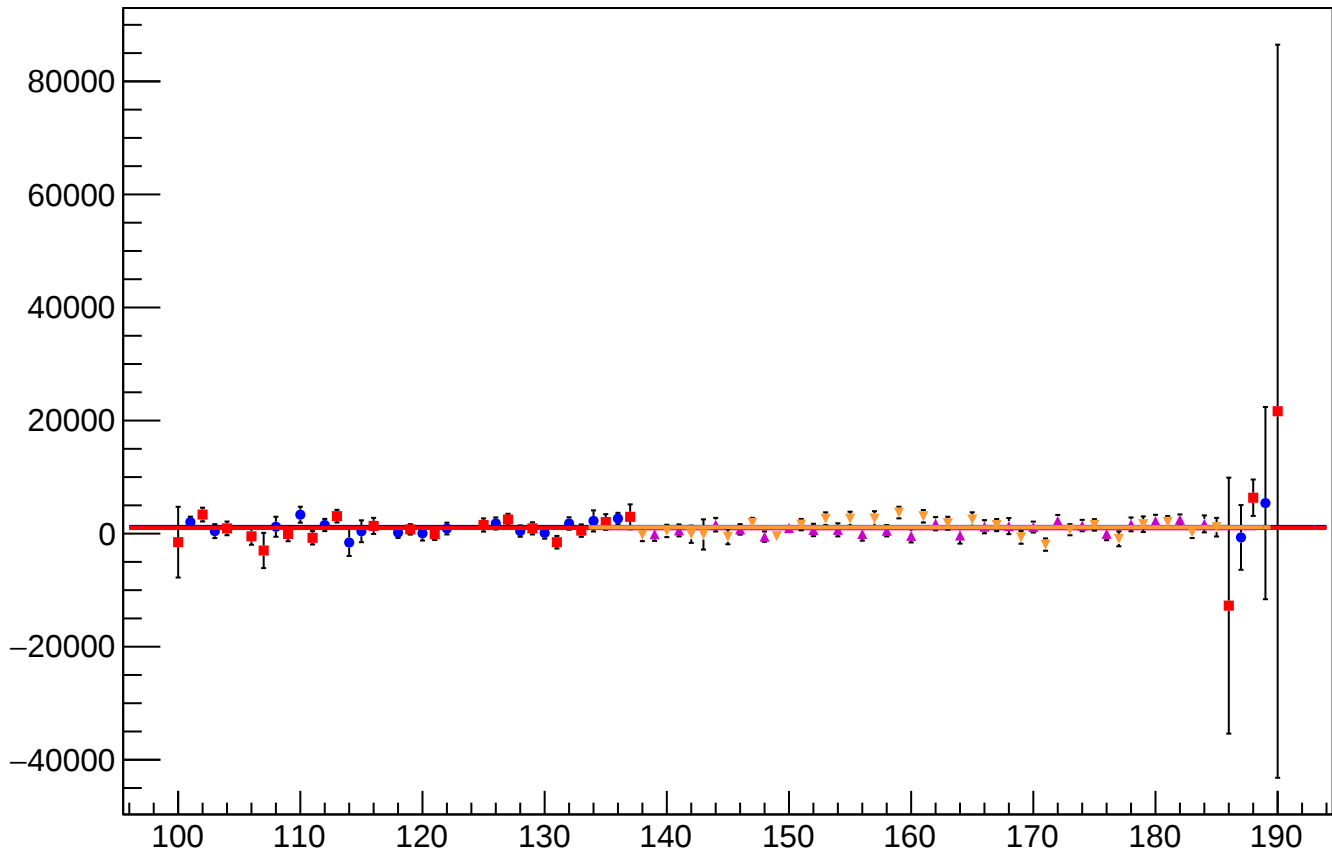
Right: 461.083 $\pm$ 0.088 χ^2/NDF : 3438907.2/38

In: 593.112 $\pm$ 0.089 χ^2/NDF : 4858477.5/40

Out: 606.794 $\pm$ 0.088 χ^2/NDF : 5772117.4/45

All: 600.044 $\pm$ 0.063 χ^2/NDF : 10642481.2/86

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1192.464 $\pm$ 295.658 χ^2 /NDF: 11.9/17

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

Right Out: 985.644 $\pm$ 292.975 χ^2 /NDF: 26.4/20

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

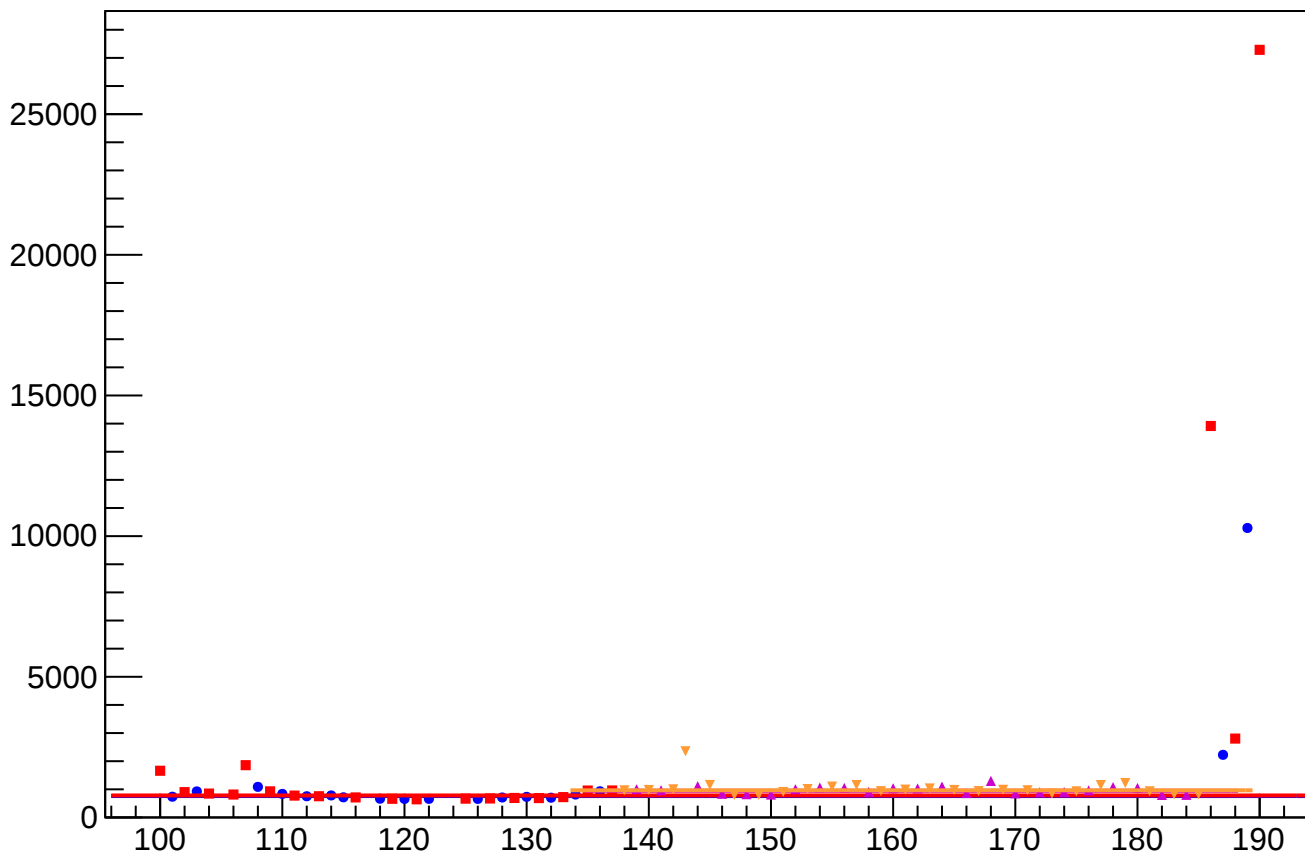
Right: 1088.111 $\pm$ 208.107 χ^2 /NDF: 38.5/38

In: 1035.382 $\pm$ 180.710 χ^2 /NDF:27.1/40

Out: 1074.679 $\pm$ 179.934 χ^2 /NDF:65.6/45

All: 1055.115 $\pm$ 127.506 χ^2 /NDF: 92.8/86

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 760.616+/-0.209 χ^2/NDF : 1010420.9/17

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

Right Out: 781.951+/-0.207 χ^2/NDF : 2322880.0/20

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

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

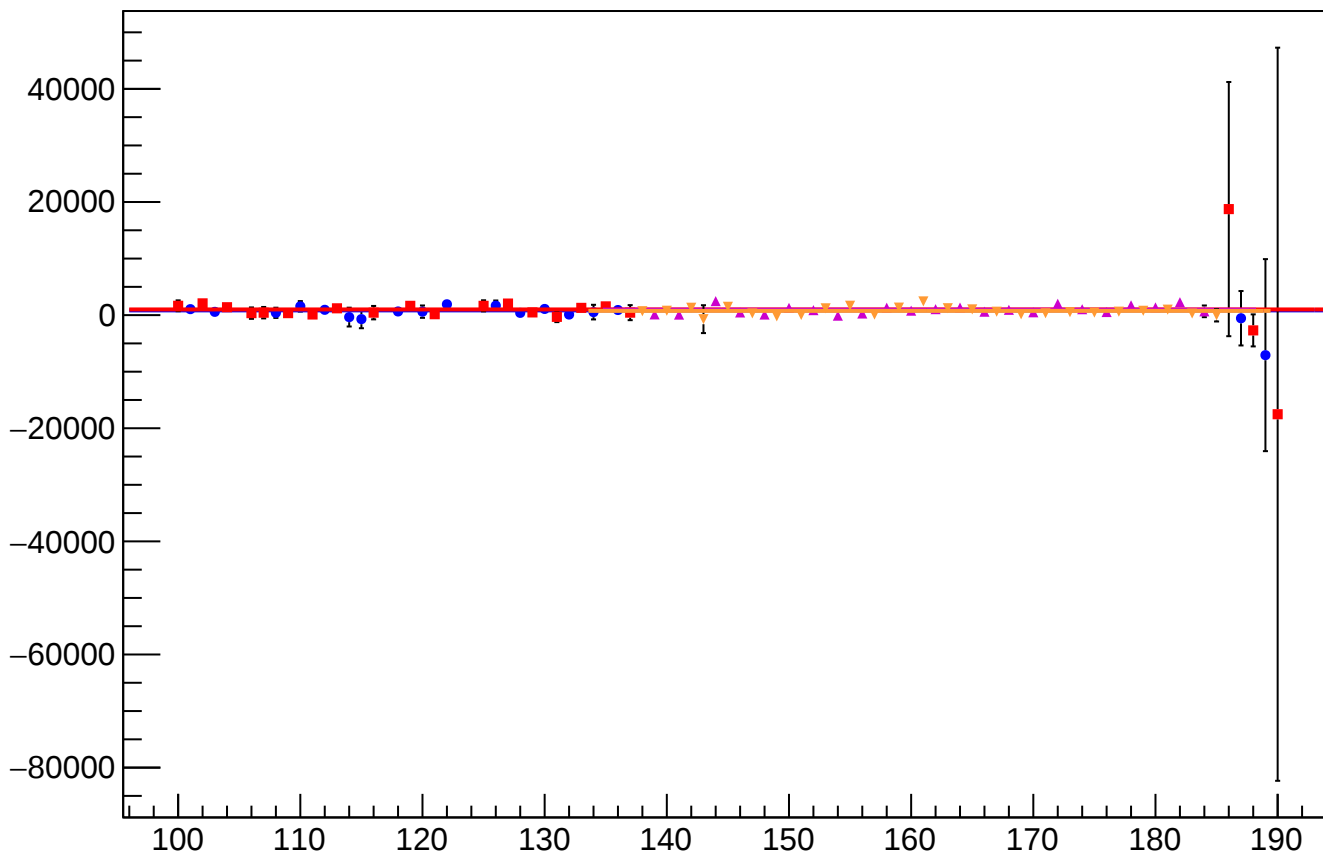
Right: 771.381+/-0.147 χ^2/NDF : 3338555.8/38

In: 877.102+/-0.128 χ^2/NDF :2007397.5/40

Out: 895.639+/-0.127 χ^2/NDF :3809198.7/45

All: 886.411+/-0.090 χ^2/NDF : 5827163.3/86

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 841.255 $\pm$ 216.261 χ^2 /NDF: 6.4/17

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

Right Out: 1004.368 $\pm$ 207.659 χ^2 /NDF: 14.8/20

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

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

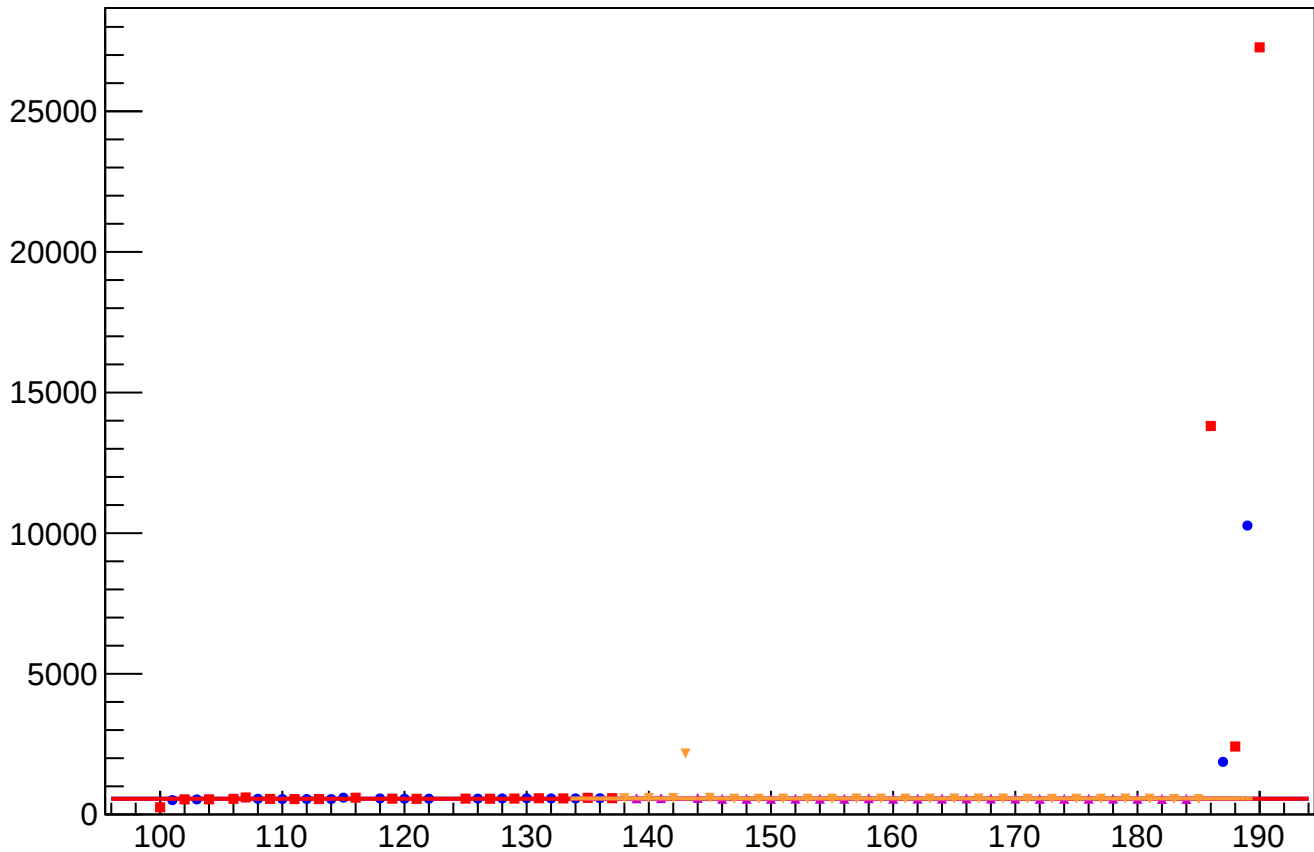
Right: 926.120 $\pm$ 149.786 χ^2 /NDF: 21.5/38

In: 925.697 $\pm$ 114.411 χ^2 /NDF: 33.4/40

Out: 826.917 $\pm$ 112.442 χ^2 /NDF: 37.2/45

All: 875.449 $\pm$ 80.196 χ^2 /NDF: 71.0/86

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 560.668 $\pm$ 0.153 χ^2 /NDF: 822125.1/17

Left Out: 568.400 $\pm$ 0.095 χ^2 /NDF: 854012.8/24

Right Out: 557.626 $\pm$ 0.147 χ^2 /NDF: 2115838.7/20

Left In: 563.934 $\pm$ 0.095 χ^2 /NDF: 9204.6/22

Left: 566.185 $\pm$ 0.067 χ^2 /NDF: 864323.4/47

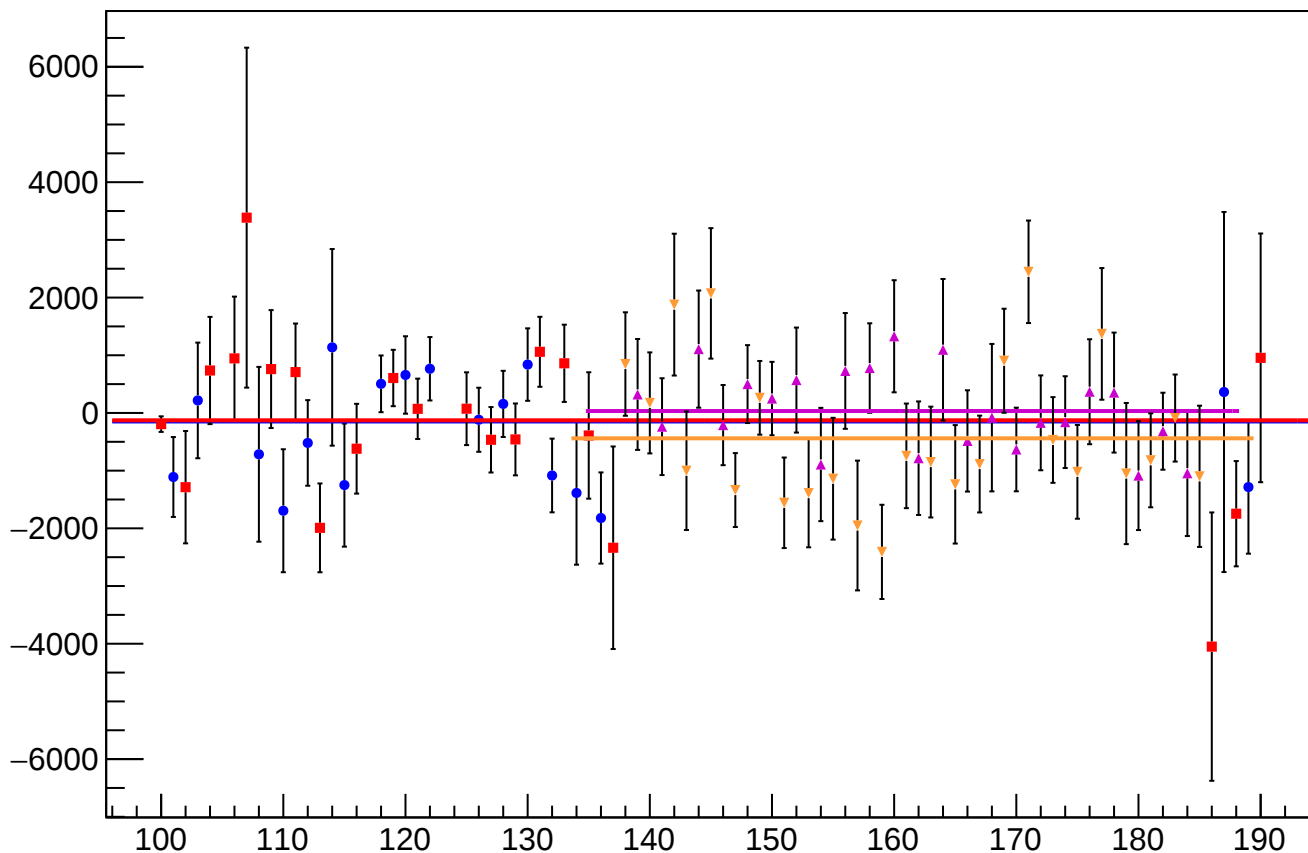
Right: 559.086 $\pm$ 0.106 χ^2 /NDF: 2938169.7/38

In: 563.020 $\pm$ 0.081 χ^2 /NDF: 831658.1/40

Out: 565.241 $\pm$ 0.080 χ^2 /NDF: 2973656.4/45

All: 564.150 $\pm$ 0.057 χ^2 /NDF: 3805698.0/86

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -147.368+/-178.234 χ^2/NDF : 23.5/17

Left Out: -439.659+/-177.808 χ^2/NDF : 43.6/24

Right Out: -127.151+/-106.862 χ^2/NDF : 30.0/20

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

Left: -205.215+/-126.273 χ^2/NDF : 59.2/47

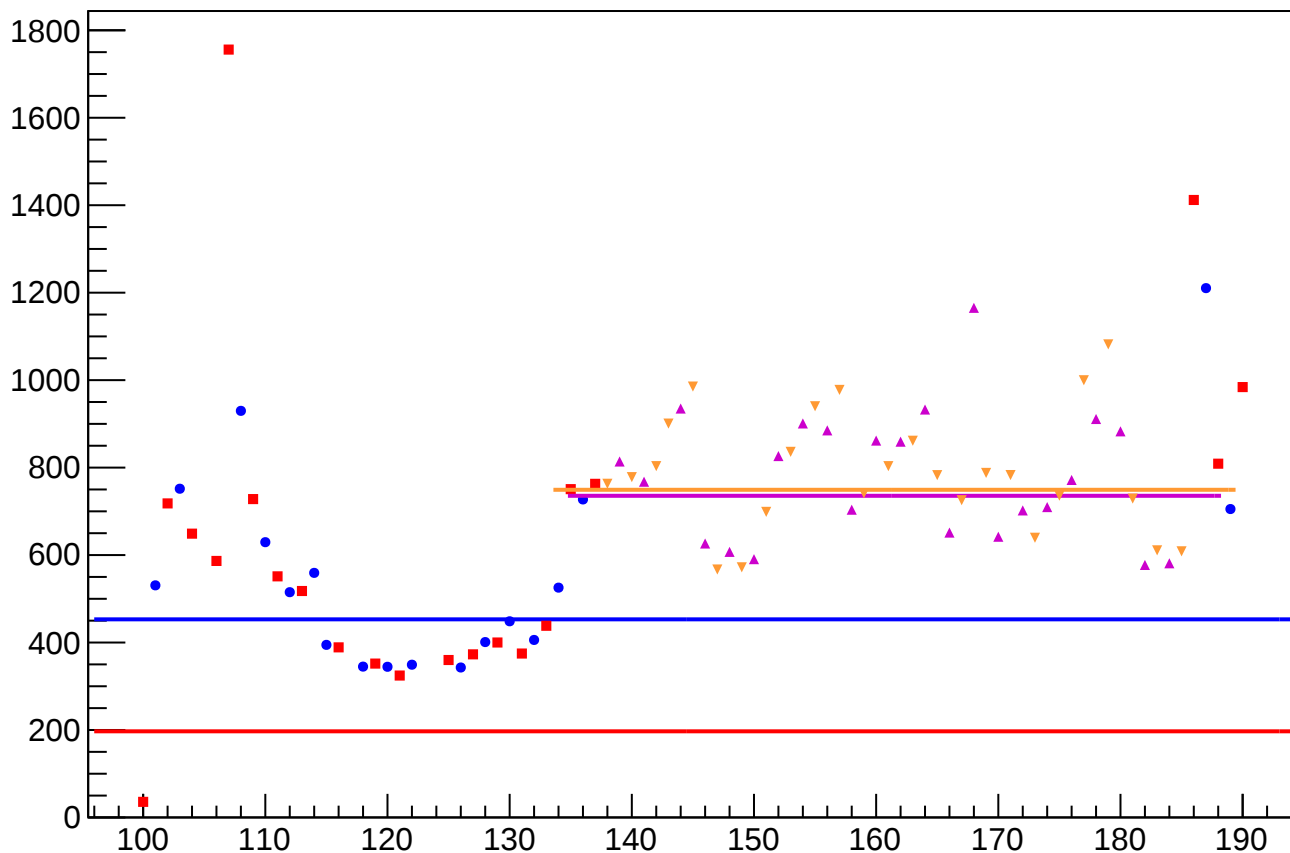
Right: -132.497+/-91.651 χ^2/NDF : 53.6/38

In: -57.588+/-126.425 χ^2/NDF : 36.2/40

Out: -210.075+/-91.593 χ^2/NDF : 75.8/45

All: -157.587+/-74.173 χ^2/NDF : 113.0/86

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 453.018+/-0.126 χ^2/NDF : 1270492.5/17

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

Right Out: 196.972+/-0.076 χ^2/NDF : 9814601.1/20

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

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

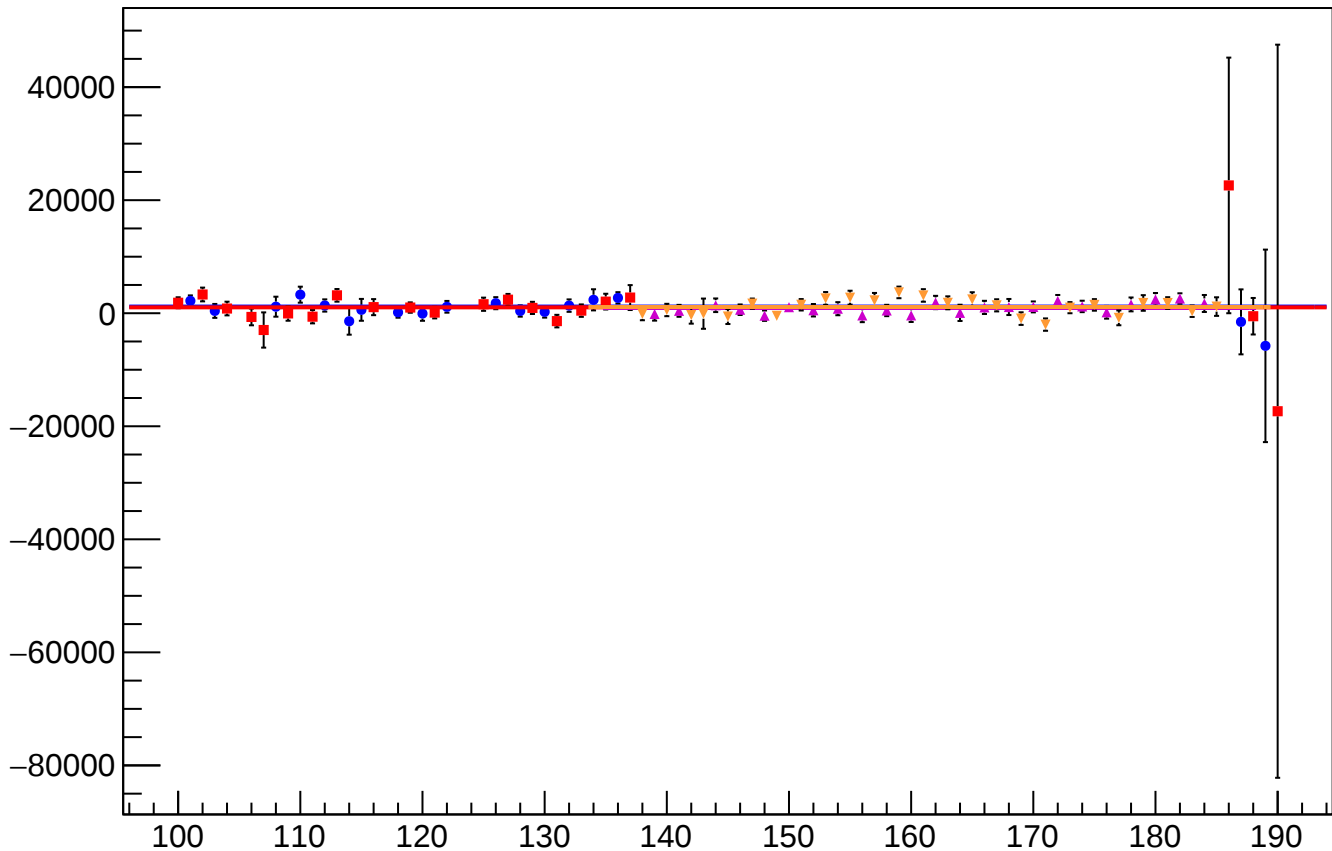
Right: 264.676+/-0.065 χ^2/NDF : 14121201.0/38

In: 593.394+/-0.089 χ^2/NDF : 4872610.0/40

Out: 343.524+/-0.065 χ^2/NDF : 25044904.4/45

All: 429.532+/-0.052 χ^2/NDF : 35040918.0/86

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1177.688 $\pm$ 295.461 χ^2 /NDF: 12.0/17

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

Right Out: 1038.722 $\pm$ 280.548 χ^2 /NDF: 23.7/20

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

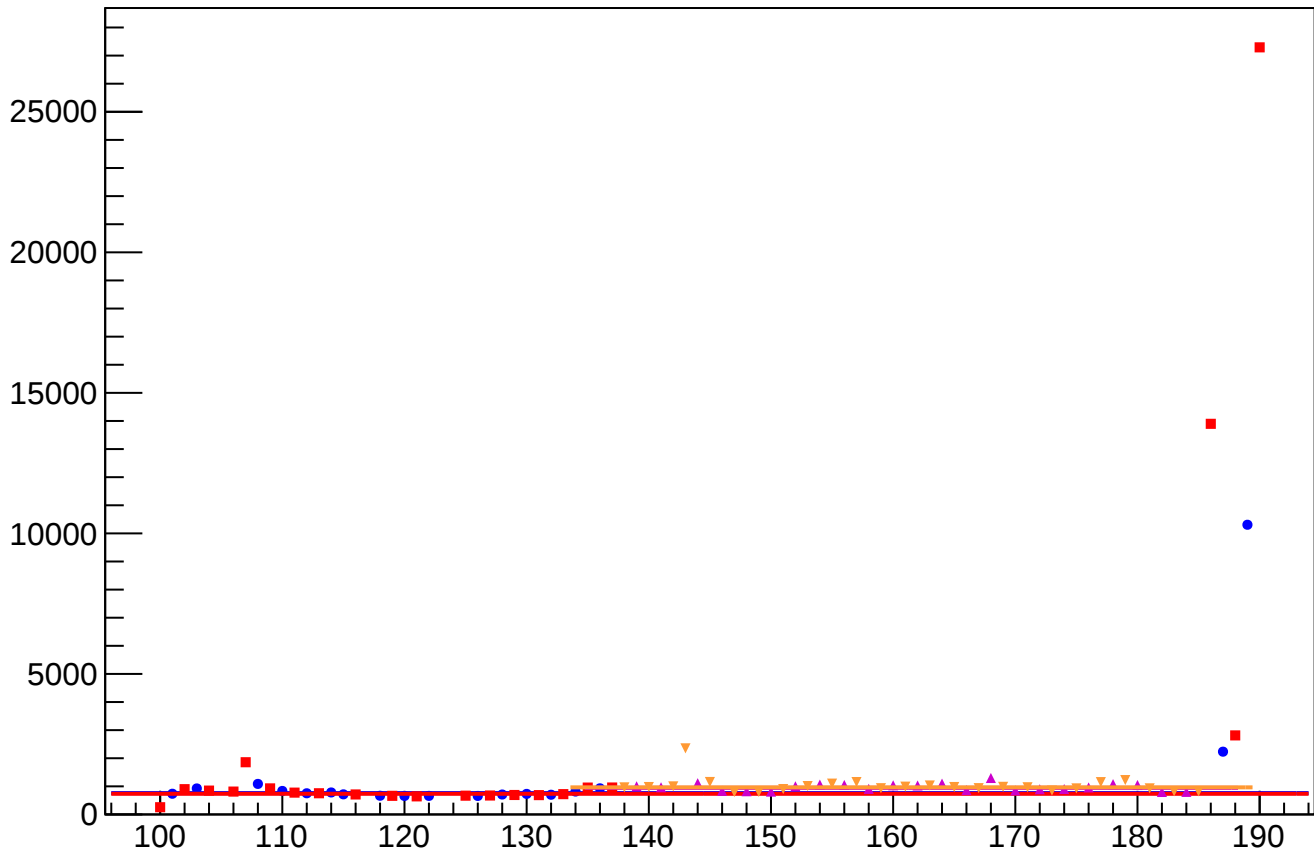
Right: 1104.610 $\pm$ 203.446 χ^2 /NDF: 35.8/38

In: 1020.215 $\pm$ 180.602 χ^2 /NDF:27.6/40

Out: 1073.553 $\pm$ 176.876 χ^2 /NDF:62.1/45

All: 1047.440 $\pm$ 126.367 χ^2 /NDF: 89.8/86

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 760.080+/-0.209 χ^2/NDF : 1011655.8/17

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

Right Out: 735.662+/-0.198 χ^2/NDF : 2818992.2/20

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

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

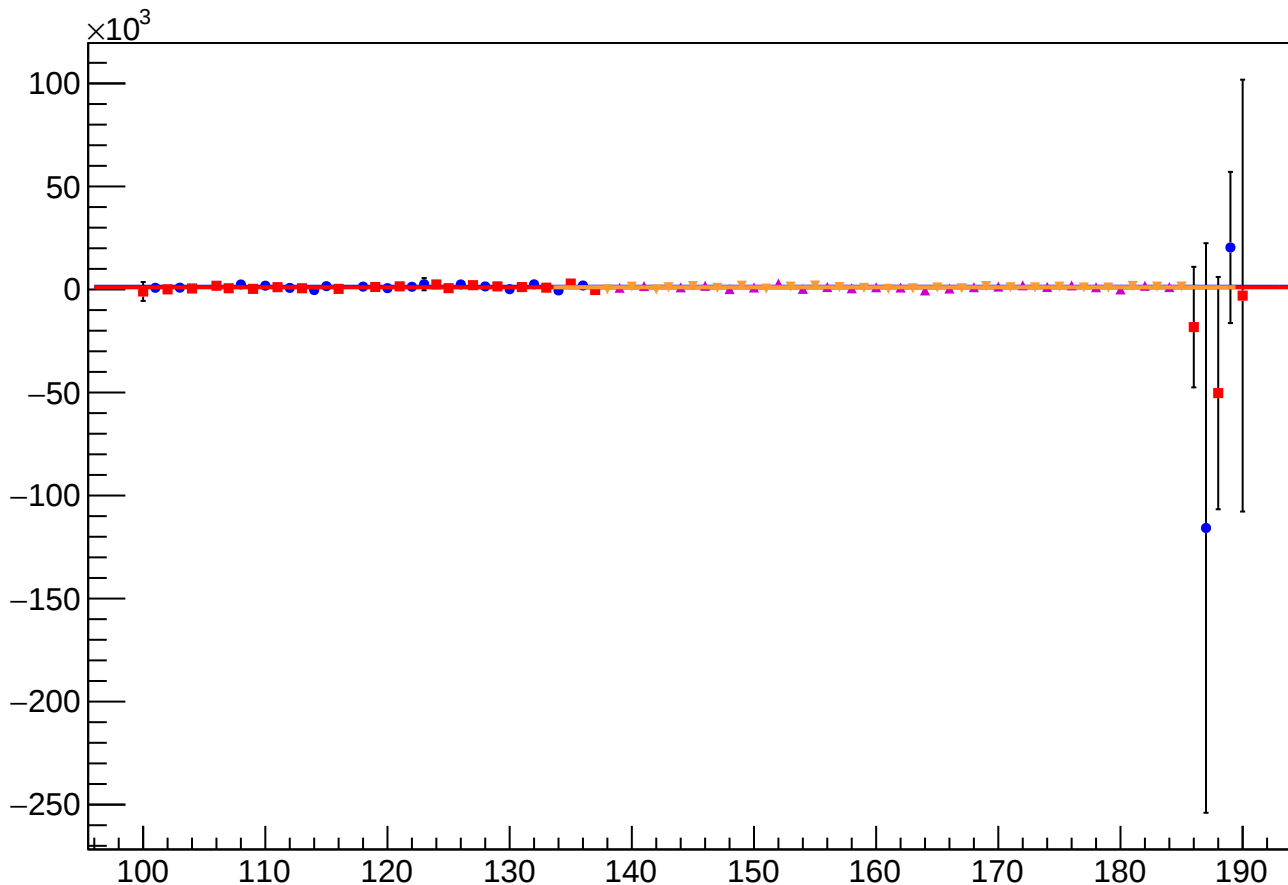
Right: 747.239+/-0.144 χ^2/NDF : 3837831.5/38

In: 876.560+/-0.128 χ^2/NDF : 2009349.7/40

Out: 873.199+/-0.125 χ^2/NDF : 4619872.9/45

All: 874.844+/-0.089 χ^2/NDF : 6629576.2/86

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.435 $\pm$ 218.596 χ^2 /NDF: 13.8/18

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

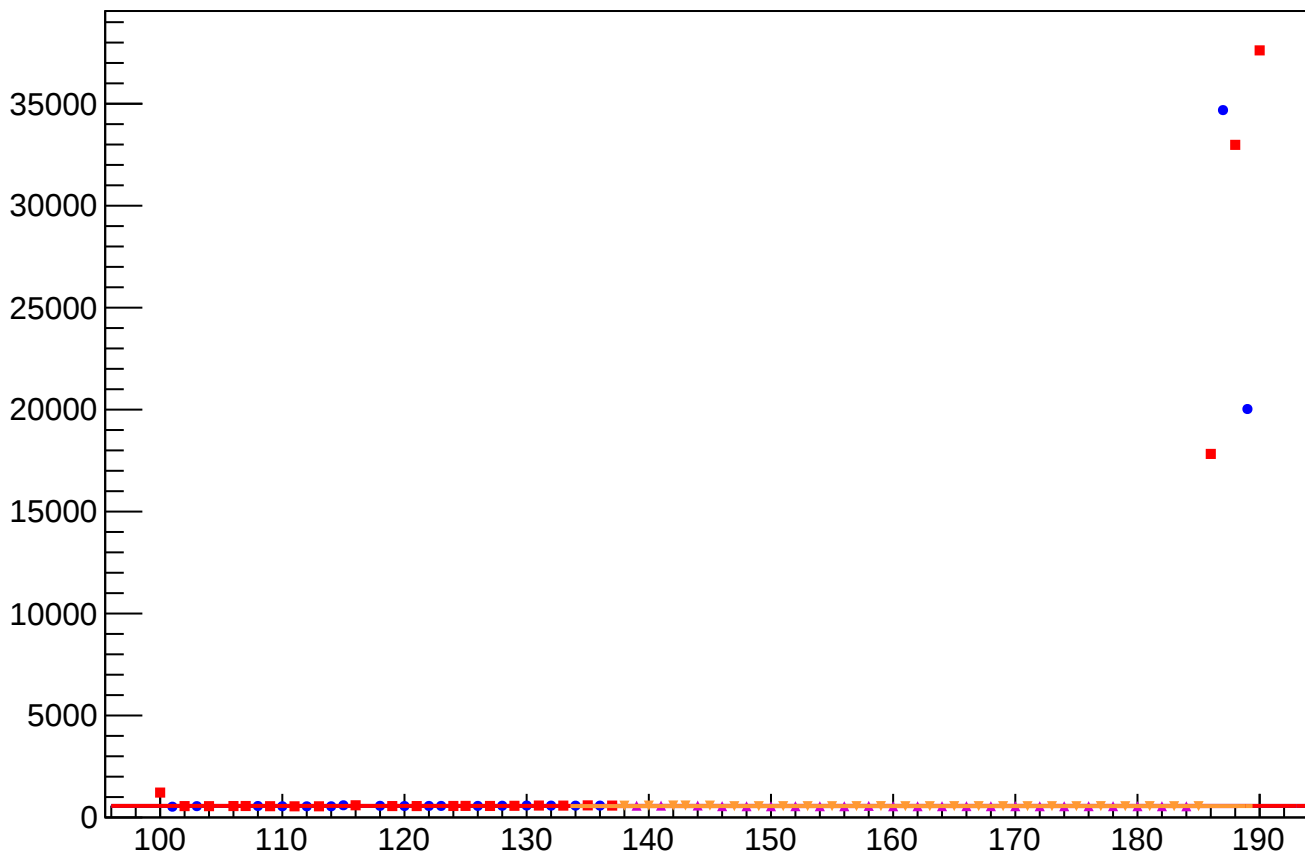
Right: 1177.263 $\pm$ 152.212 χ^2 /NDF: 29.4/40

In: 1178.144 $\pm$ 113.724 χ^2 /NDF:44.4/41

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

All: 1119.572 $\pm$ 79.302 χ^2 /NDF: 74.8/88

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 564.305+/-0.155 χ^2/NDF : 705889.2/18

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

Right Out: 566.864+/-0.150 χ^2/NDF : 1685991.1/21

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

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

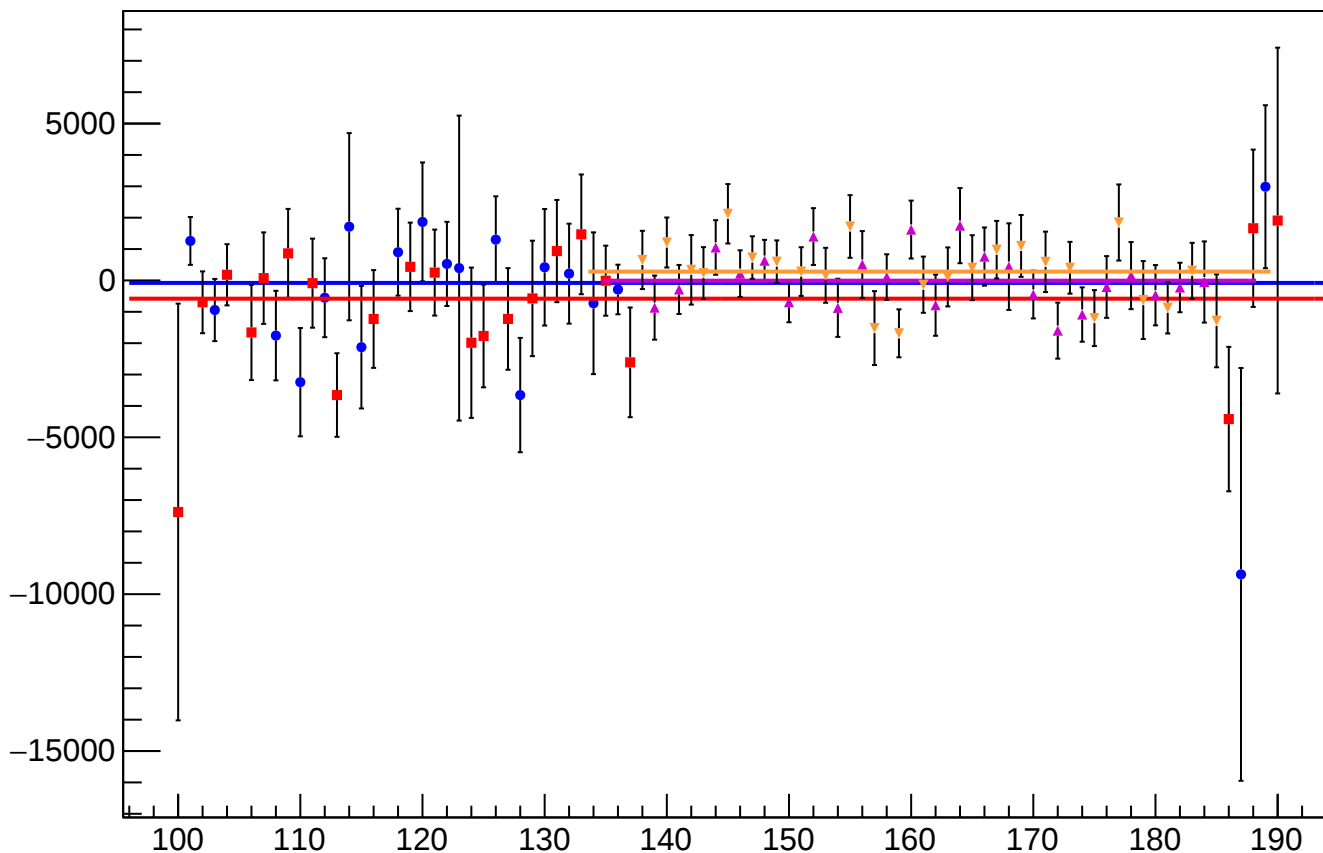
Right: 565.623+/-0.108 χ^2/NDF : 2392021.5/40

In: 558.955+/-0.080 χ^2/NDF : 718741.9/41

Out: 560.074+/-0.078 χ^2/NDF : 1703561.2/46

All: 559.529+/-0.056 χ^2/NDF : 2422402.6/88

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -78.978 $\pm$ 325.278 χ^2/NDF : 20.4/18

Left Out: 281.875 $\pm$ 180.423 χ^2/NDF : 26.7/24

Right Out: -581.269 $\pm$ 326.168 χ^2/NDF : 18.4/21

Left In: -8.211 $\pm$ 183.382 χ^2/NDF : 20.2/22

Left: 139.190 $\pm$ 128.612 χ^2/NDF : 48.2/47

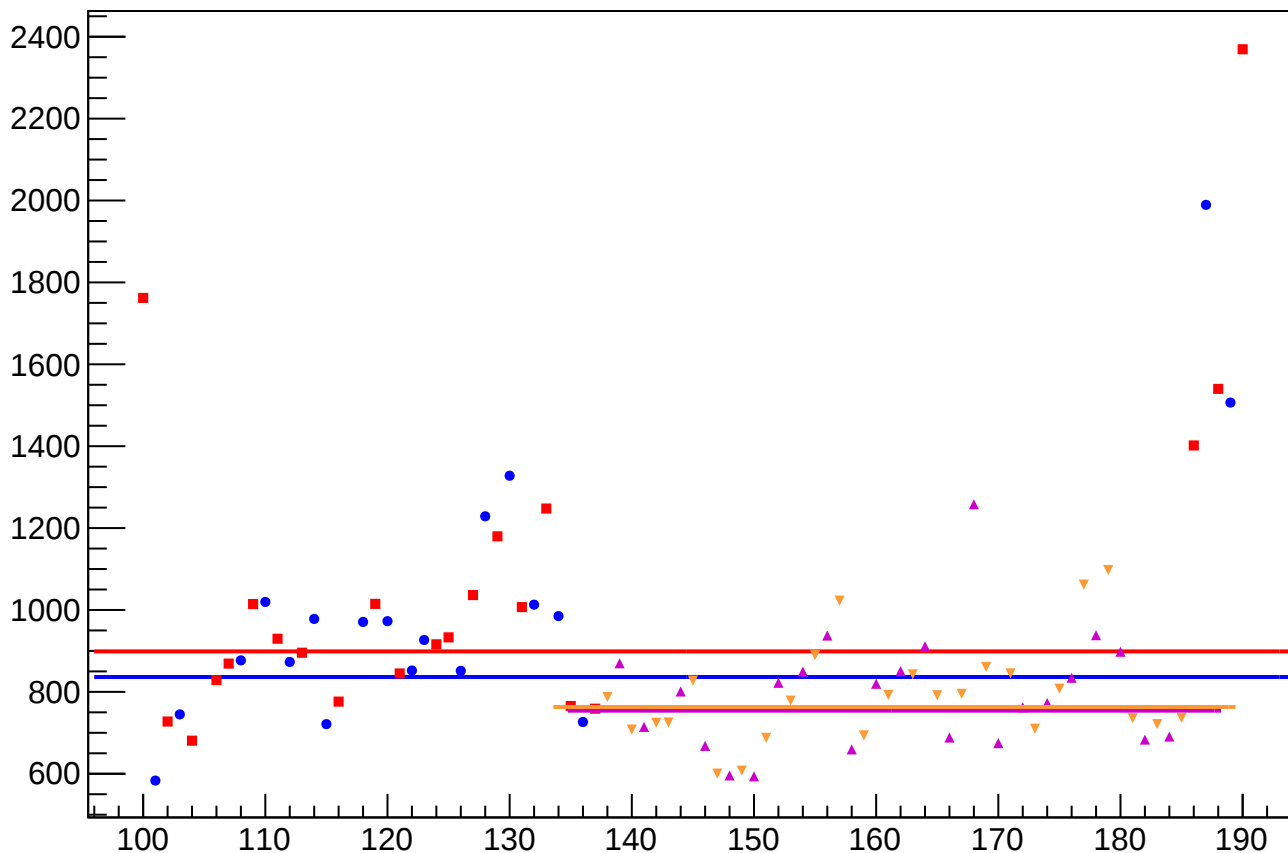
Right: -329.437 $\pm$ 230.320 χ^2/NDF : 40.0/40

In: -25.279 $\pm$ 159.744 χ^2/NDF : 40.6/41

Out: 79.644 $\pm$ 157.879 χ^2/NDF : 50.4/46

All: 27.799 $\pm$ 112.291 χ^2/NDF : 91.3/88

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 836.239+/-0.230 χ^2/NDF : 804758.6/18

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

Right Out: 898.823+/-0.231 χ^2/NDF : 790470.9/21

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

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

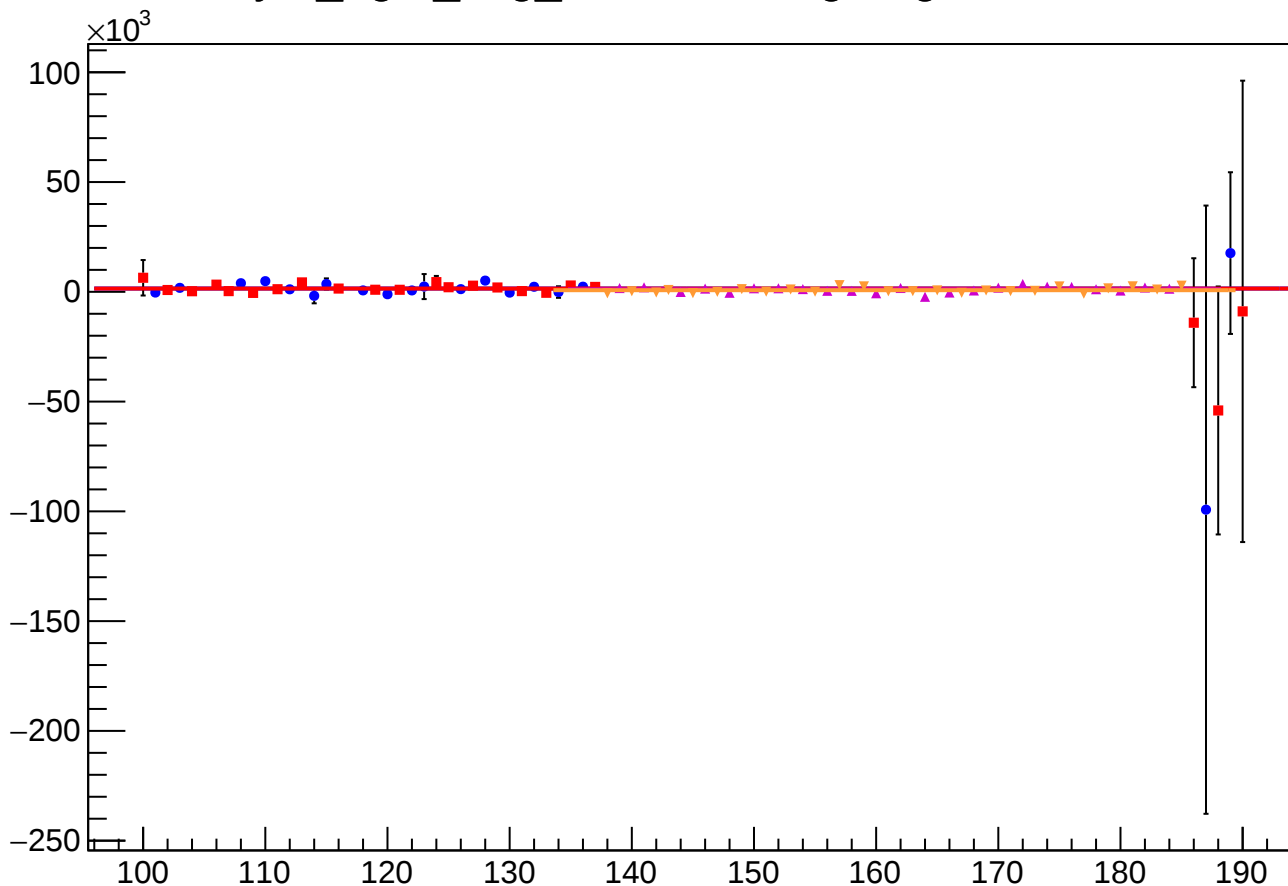
Right: 867.446+/-0.163 χ^2/NDF : 1632145.7/40

In: 773.909+/-0.113 χ^2/NDF : 1833365.9/41

Out: 794.888+/-0.112 χ^2/NDF : 1809394.1/46

All: 784.522+/-0.079 χ^2/NDF : 3660208.3/88

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1499.046 $\pm$ 402.641 χ^2 /NDF: 17.8/18

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

Right Out: 1481.911 $\pm$ 400.668 χ^2 /NDF: 13.3/21

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

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

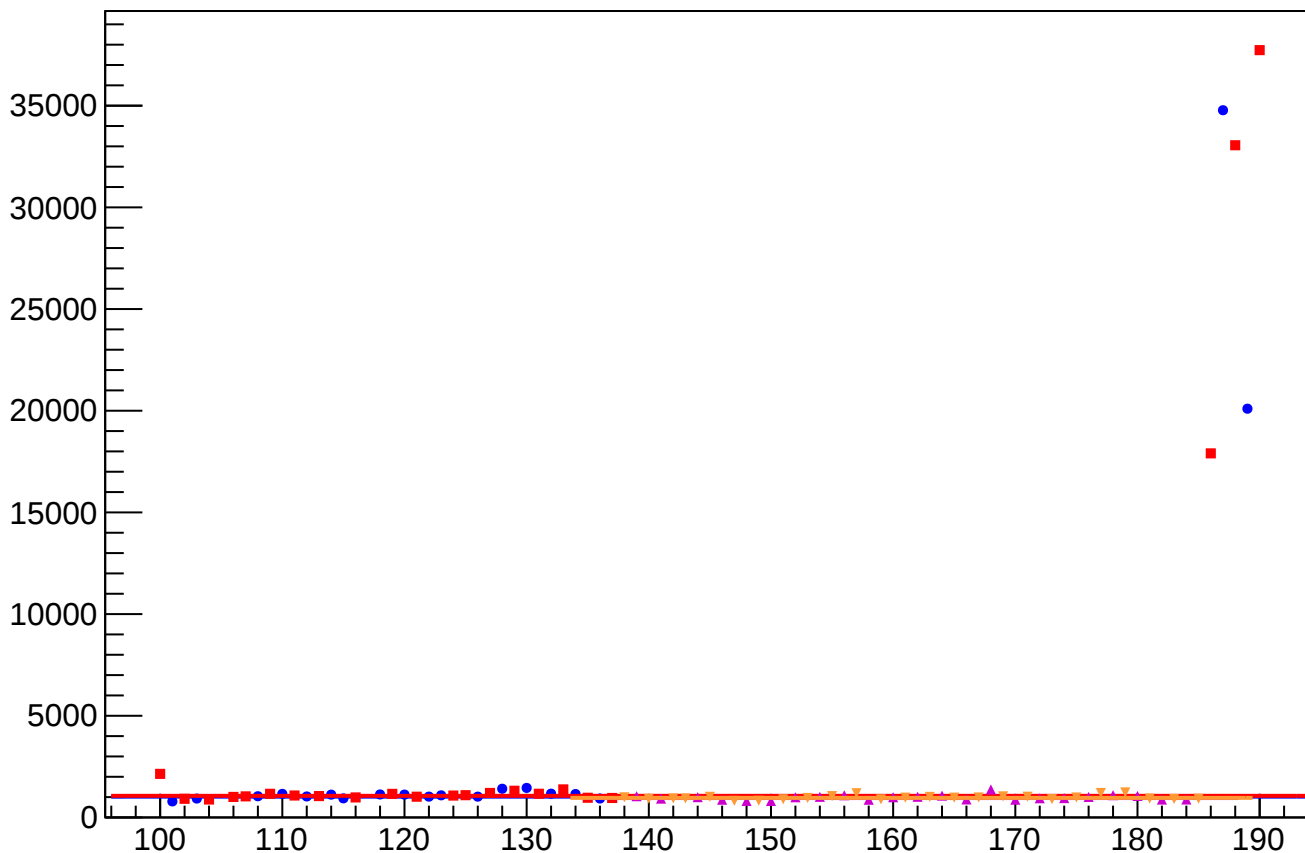
Right: 1490.436 $\pm$ 284.010 χ^2 /NDF: 31.1/40

In: 1216.752 $\pm$ 199.756 χ^2 /NDF:43.8/41

Out: 918.242 $\pm$ 196.537 χ^2 /NDF:37.4/46

All: 1065.073 $\pm$ 140.097 χ^2 /NDF: 82.4/88

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1024.602+/-0.285 χ^2/NDF : 1000537.4/18

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

Right Out: 1063.247+/-0.283 χ^2/NDF : 1803679.4/21

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

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

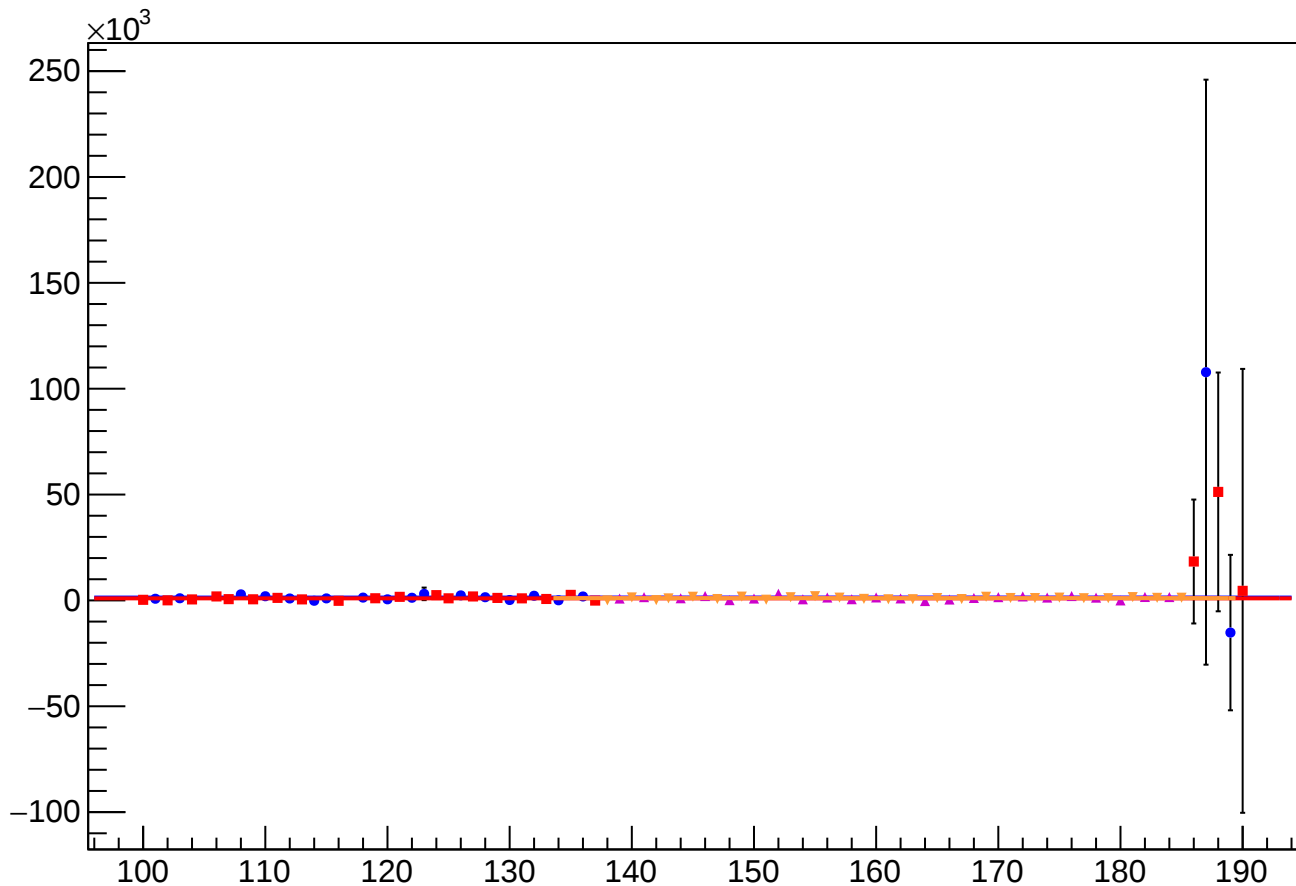
Right: 1044.019+/-0.201 χ^2/NDF : 2813473.7/40

In: 971.862+/-0.141 χ^2/NDF : 1489449.8/41

Out: 986.556+/-0.139 χ^2/NDF : 2263109.0/46

All: 979.328+/-0.099 χ^2/NDF : 3758057.3/88

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1345.080 $\pm$ 218.850 χ^2 /NDF: 12.8/18

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

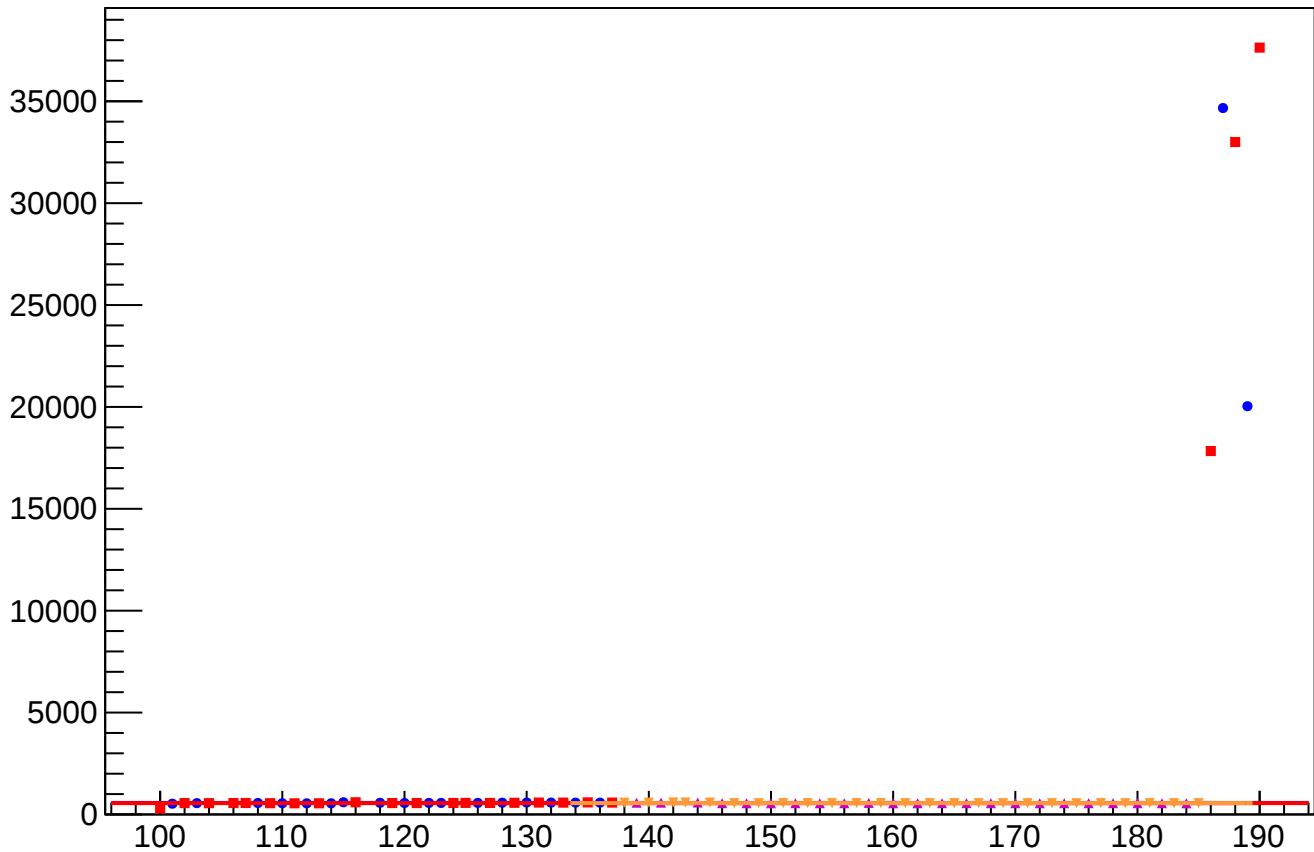
Right: 1146.998 $\pm$ 150.999 χ^2 /NDF: 27.7/40

In: 1231.593 $\pm$ 113.853 χ^2 /NDF:45.3/41

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

All: 1139.897 $\pm$ 79.191 χ^2 /NDF: 75.1/88

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 564.959+/-0.155 χ^2/NDF : 705966.4/18

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

Right Out: 555.950+/-0.148 χ^2/NDF : 1770733.6/21

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

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

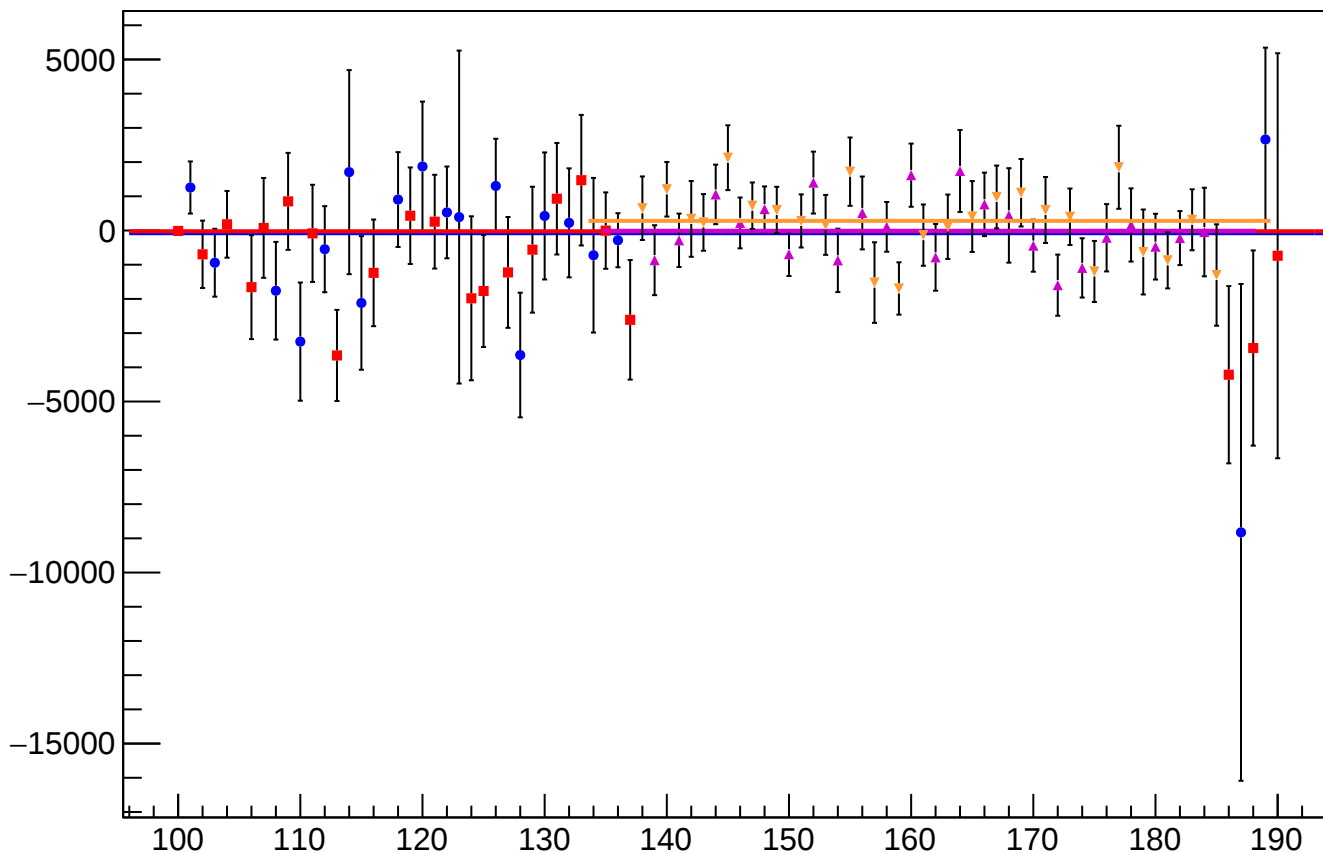
Right: 560.239+/-0.107 χ^2/NDF : 2478476.0/40

In: 559.589+/-0.081 χ^2/NDF : 718894.3/41

Out: 557.499+/-0.078 χ^2/NDF : 1785671.9/46

All: 558.510+/-0.056 χ^2/NDF : 2504914.1/88

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -79.455 ± 325.610 χ^2/NDF : 19.5/18

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

Right Out: -21.695 ± 38.946 χ^2/NDF : 19.9/21

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

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

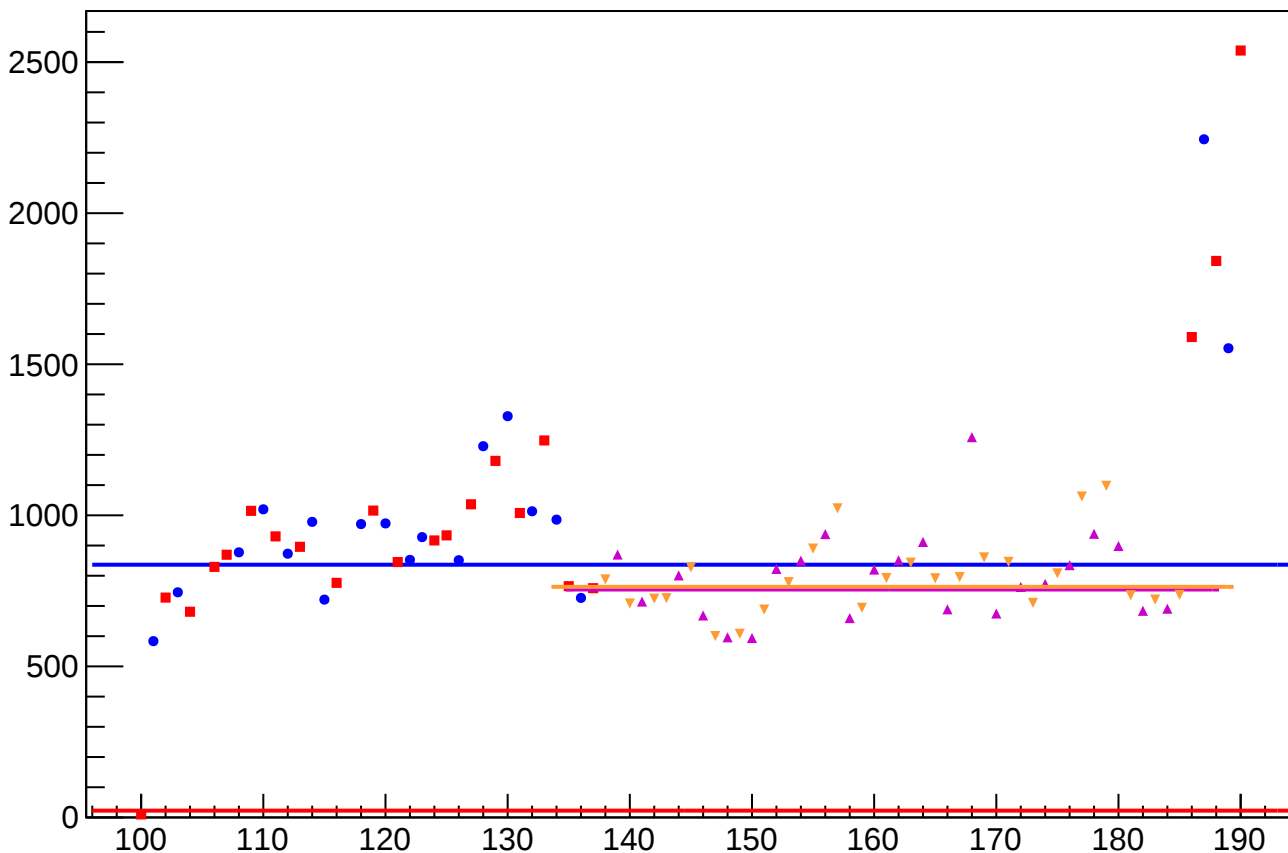
Right: -22.510 ± 38.671 χ^2/NDF : 39.5/40

In: -24.693 ± 159.844 χ^2/NDF : 39.7/41

Out: -8.208 ± 38.070 χ^2/NDF : 49.4/46

All: -9.093 ± 37.034 χ^2/NDF : 89.1/88

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 836.508+/-0.230 χ^2/NDF : 827671.7/18

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

Right Out: 22.573+/-0.028 χ^2/NDF : 15385097.0/21

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

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

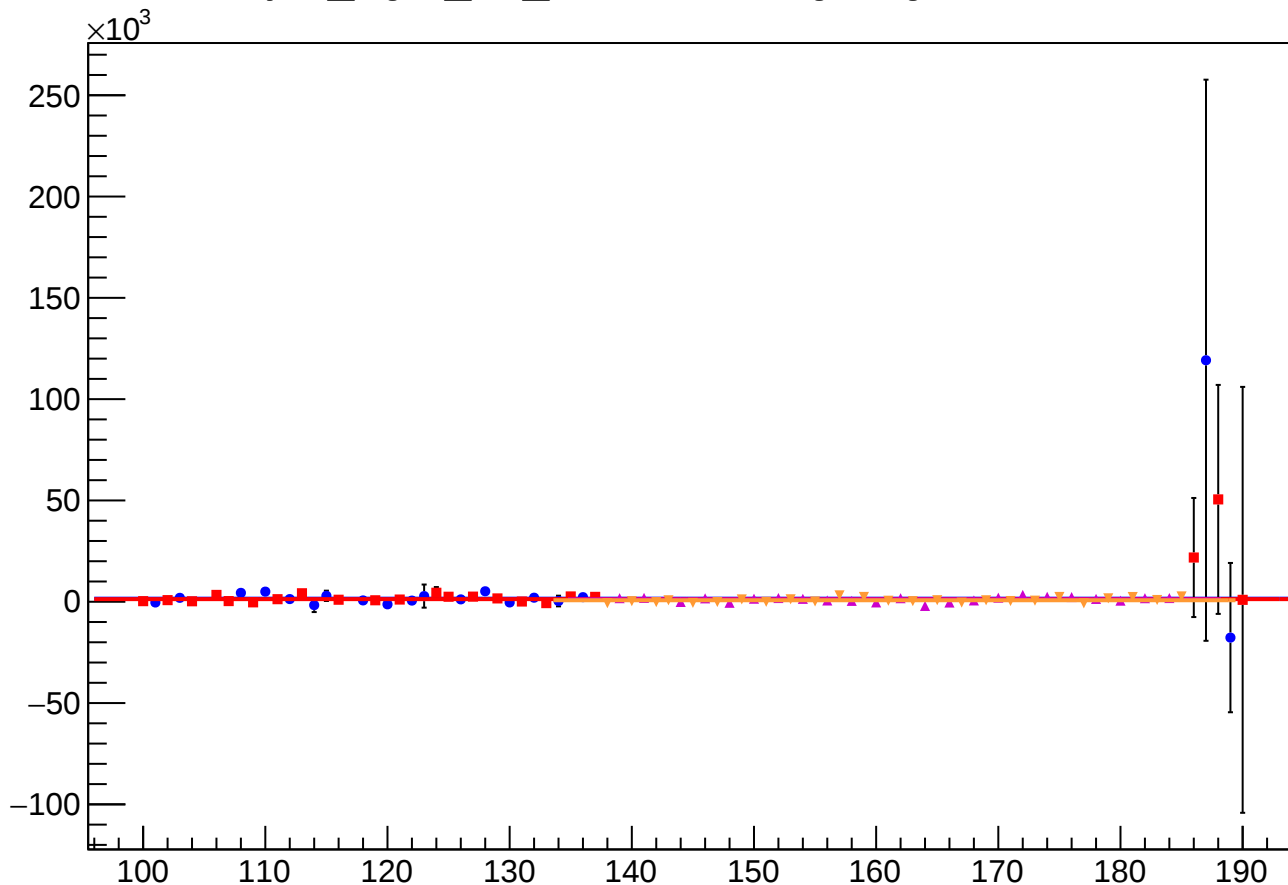
Right: 34.054+/-0.027 χ^2/NDF : 28533726.7/40

In: 774.250+/-0.113 χ^2/NDF : 1855542.7/41

Out: 55.532+/-0.027 χ^2/NDF : 48330060.2/46

All: 94.113+/-0.026 χ^2/NDF : 88449728.7/88

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1518.185 $\pm$ 402.864 χ^2/NDF : 18.8/18

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

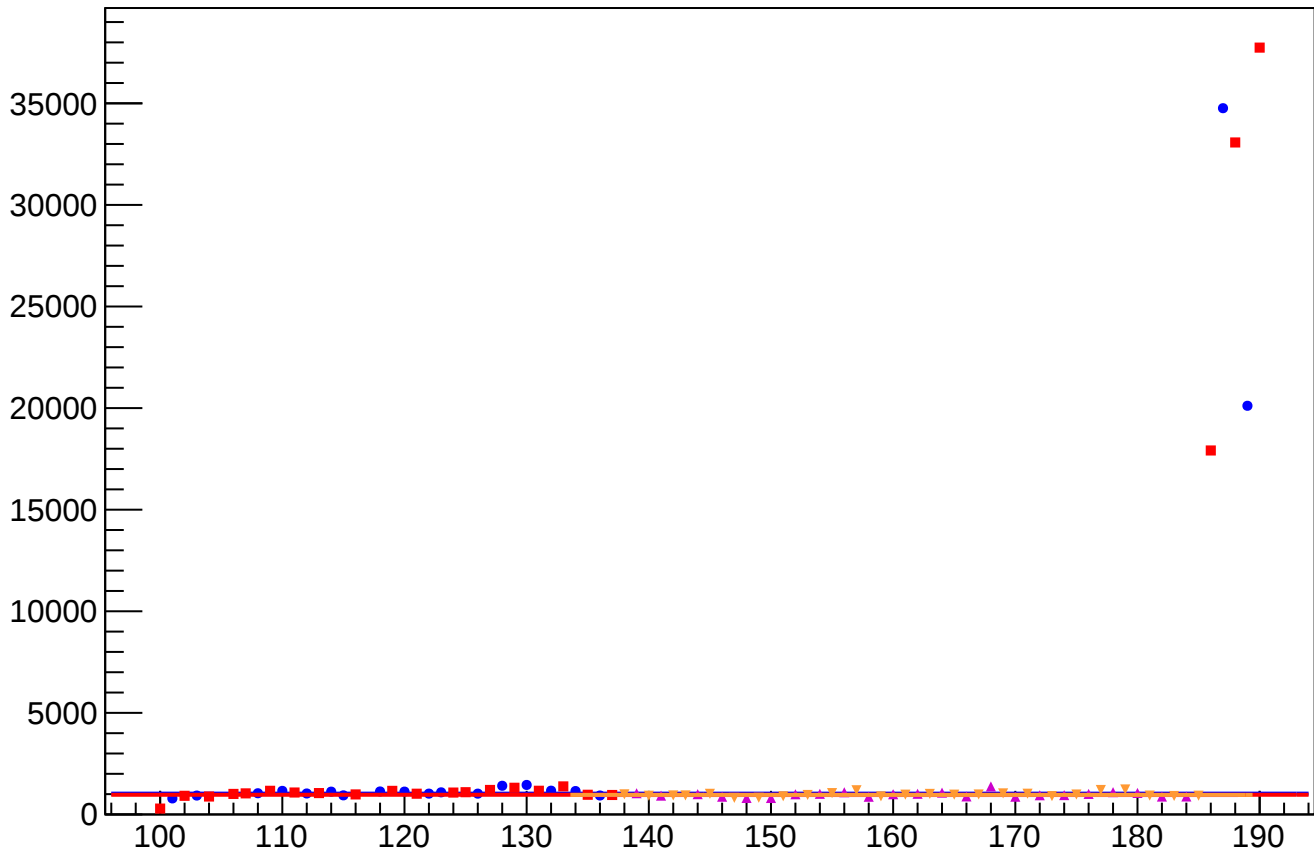
Right: 1398.075 $\pm$ 275.128 χ^2/NDF : 32.6/40

In: 1260.458 $\pm$ 199.890 χ^2/NDF : 43.6/41

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

All: 1068.343 $\pm$ 139.057 χ^2/NDF : 80.8/88

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1025.175+/-0.285 χ^2/NDF : 1000469.5/18

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

Right Out: 968.891+/-0.266 χ^2/NDF : 2652556.9/21

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

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

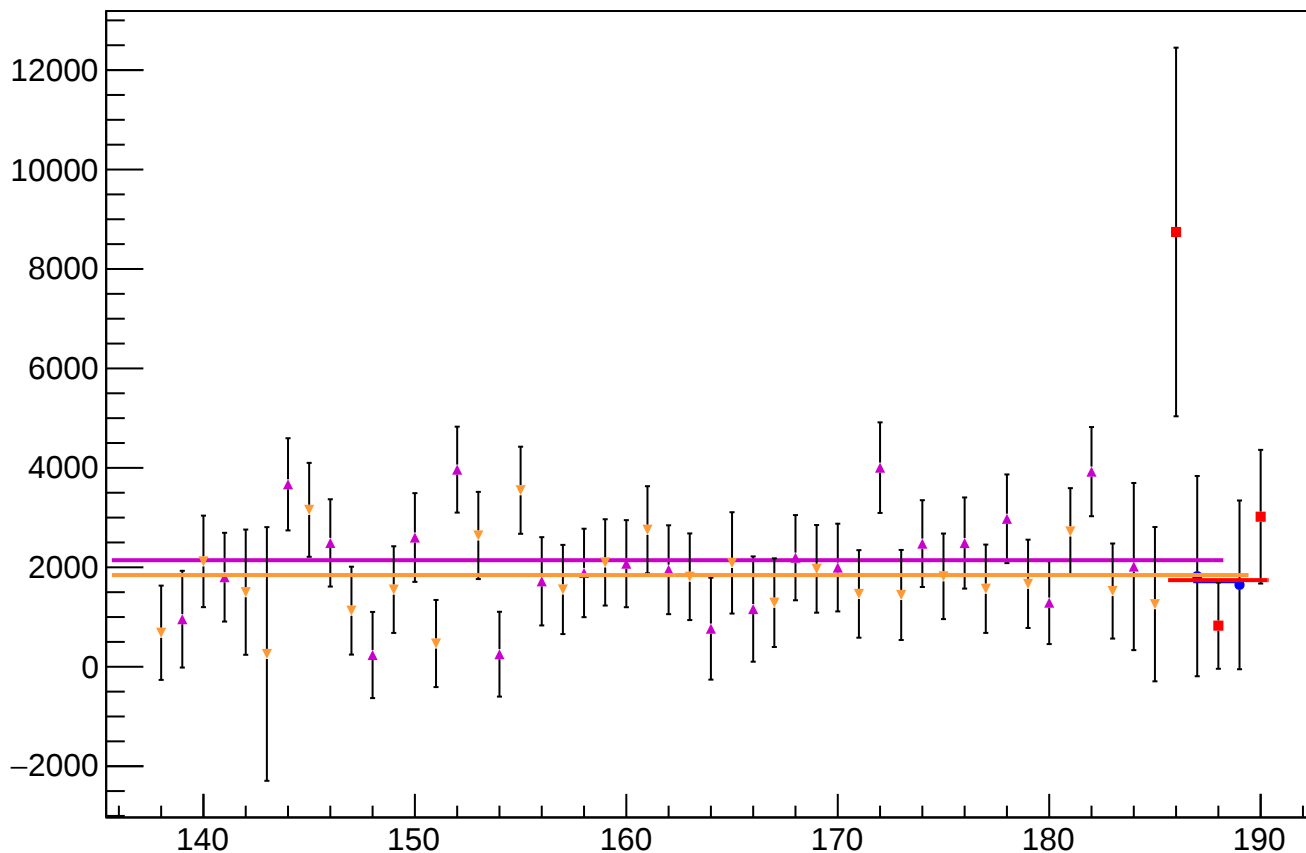
Right: 995.142+/-0.195 χ^2/NDF : 3673857.3/40

In: 972.525+/-0.141 χ^2/NDF : 1488853.3/41

Out: 964.392+/-0.137 χ^2/NDF : 3015782.6/46

All: 968.328+/-0.098 χ^2/NDF : 4506344.8/88

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

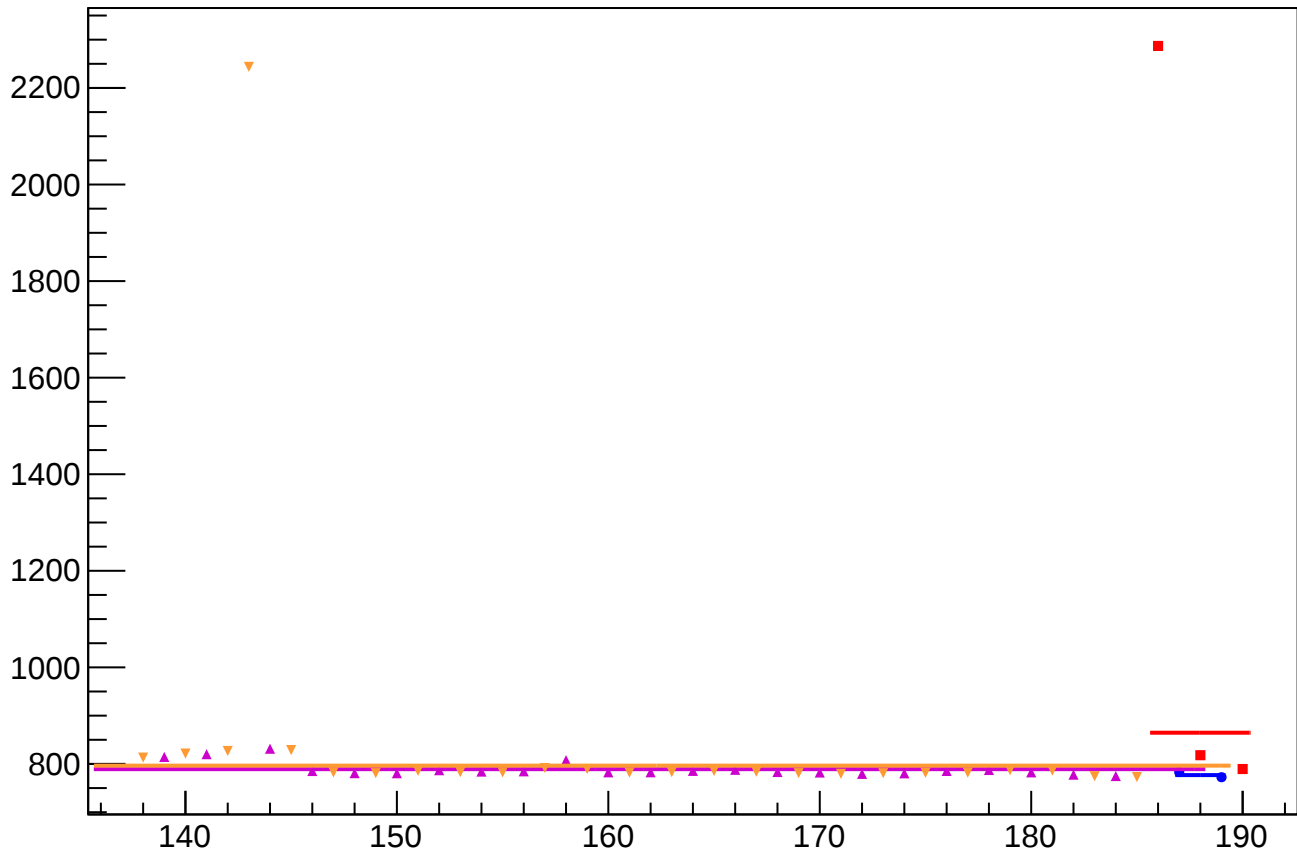
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

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

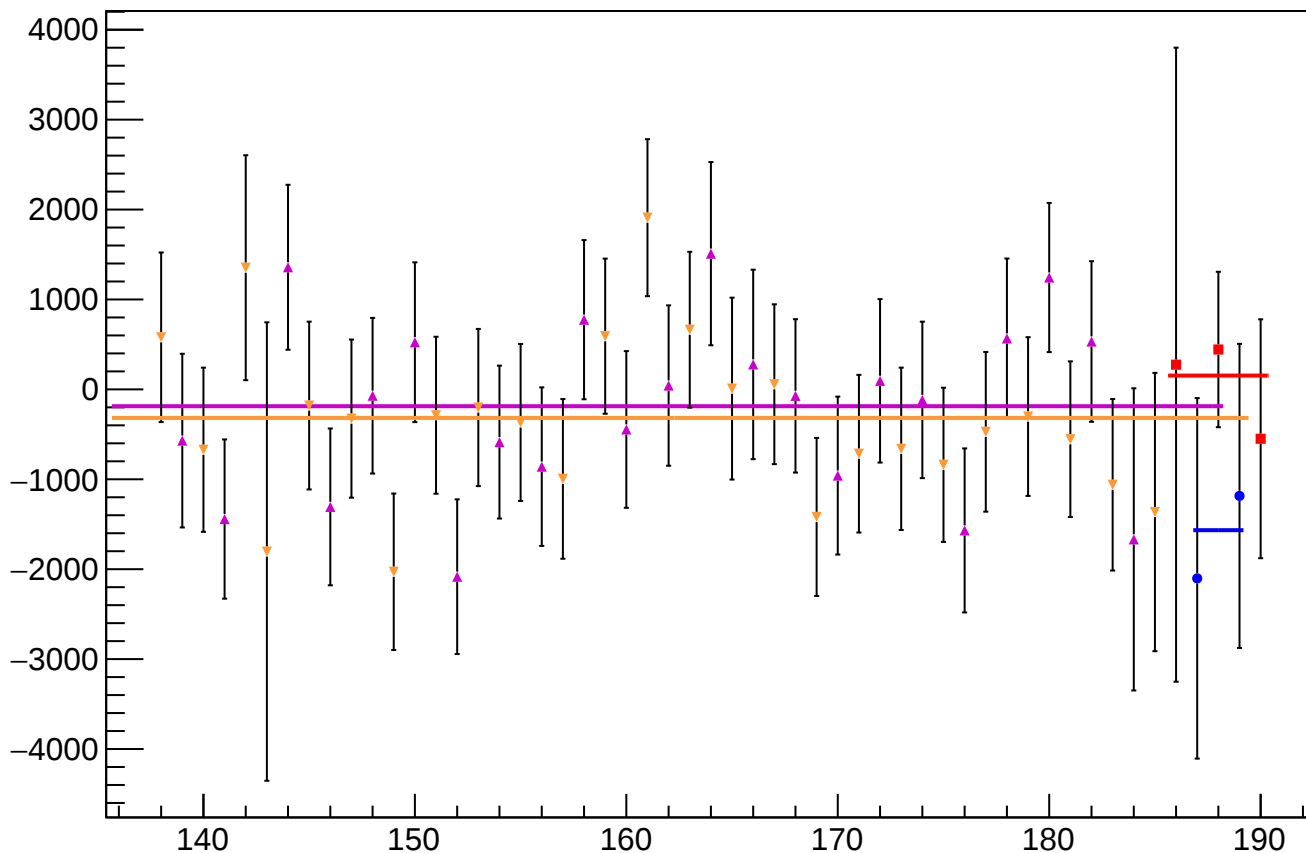
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

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

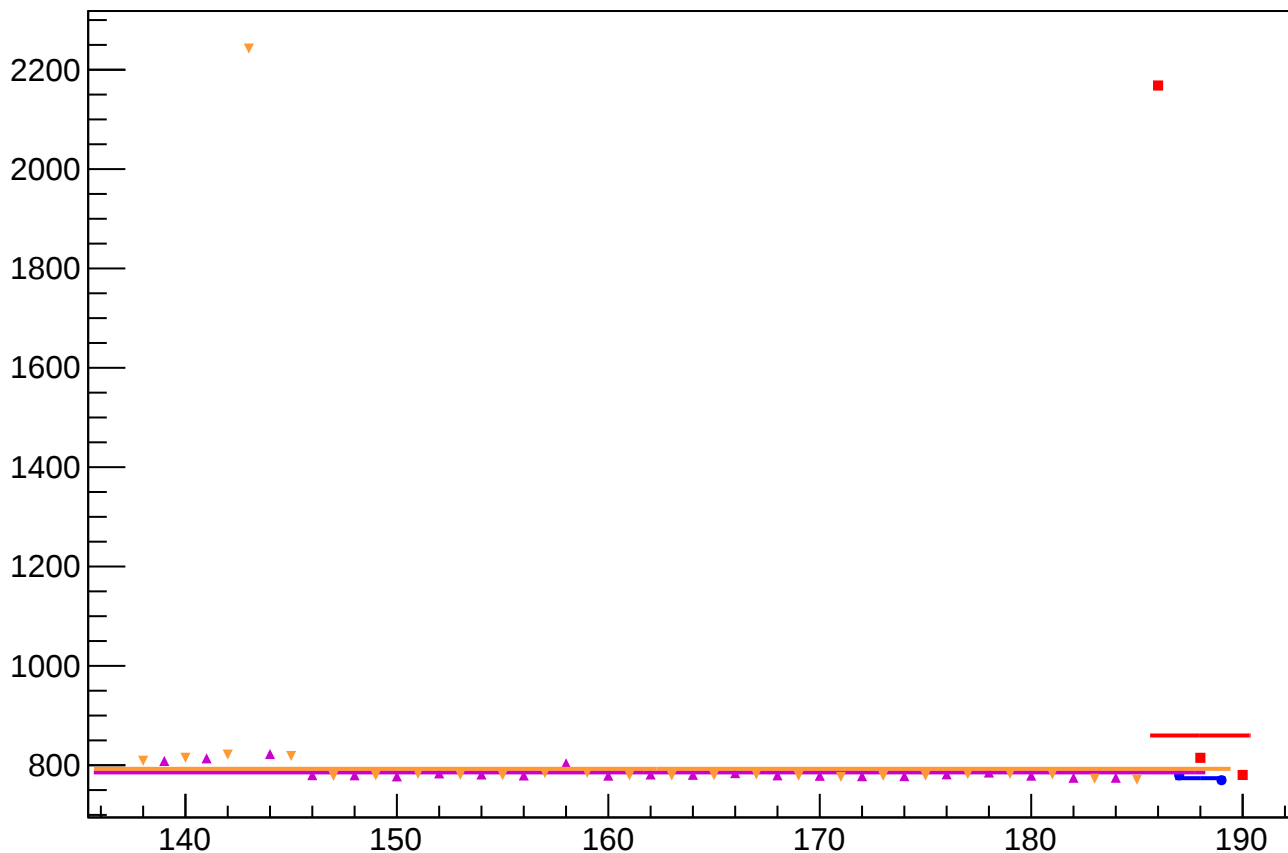
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

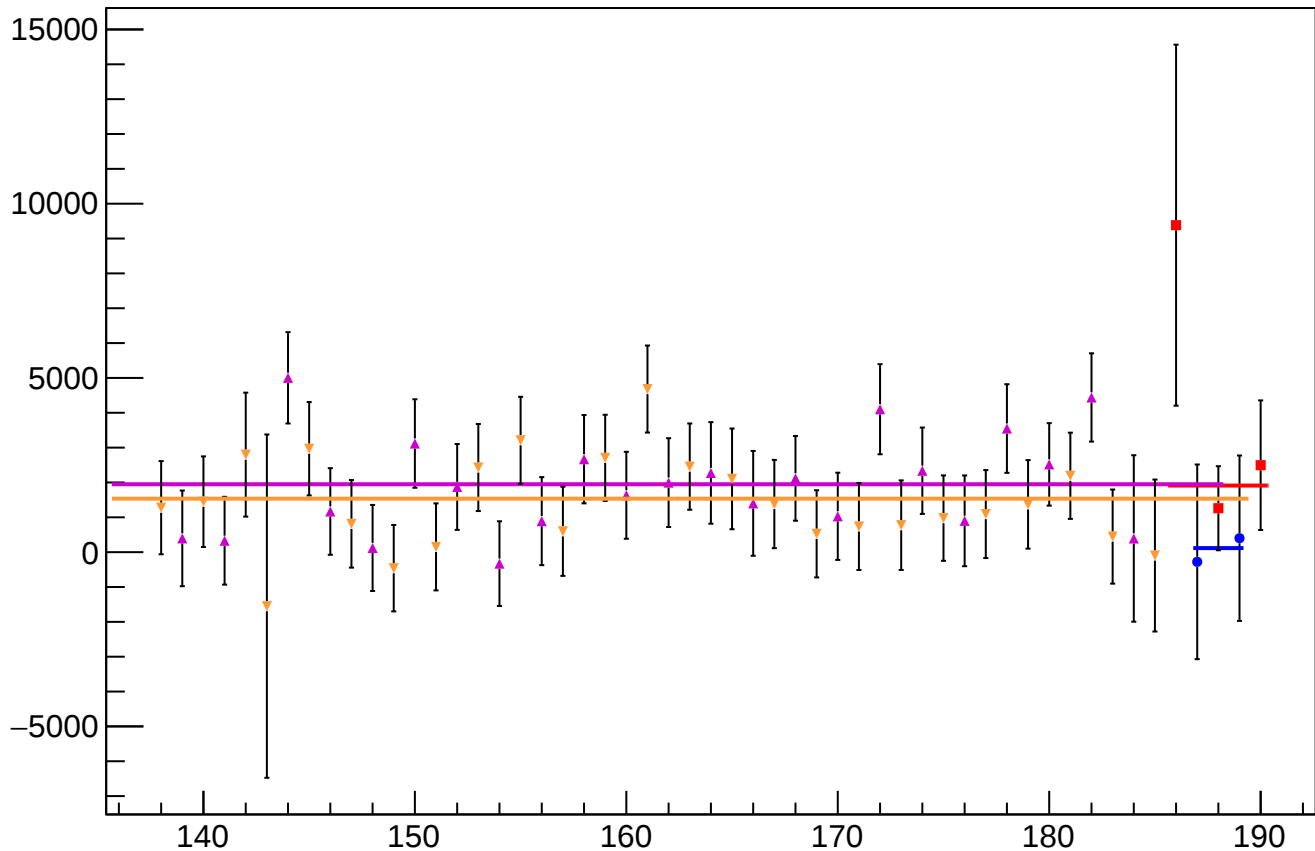
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

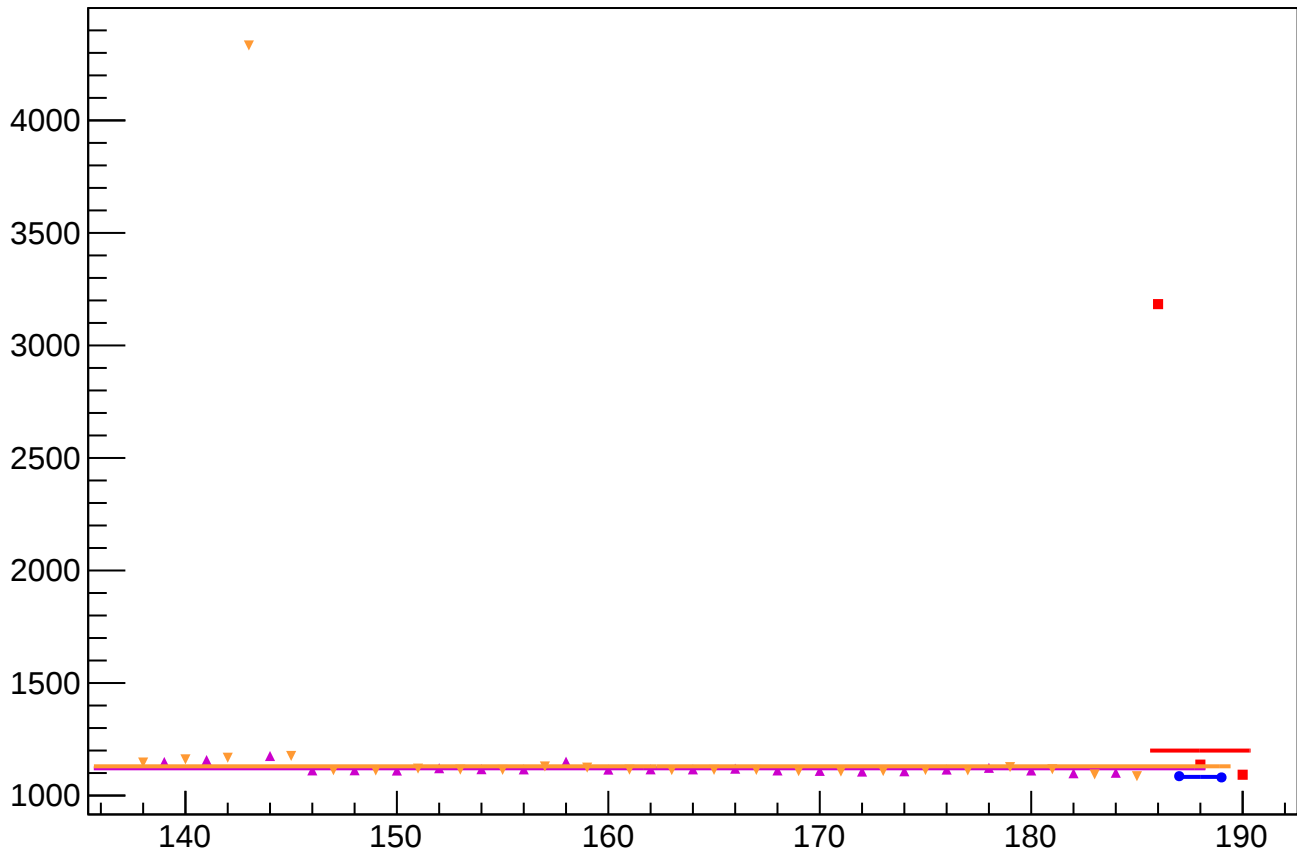
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

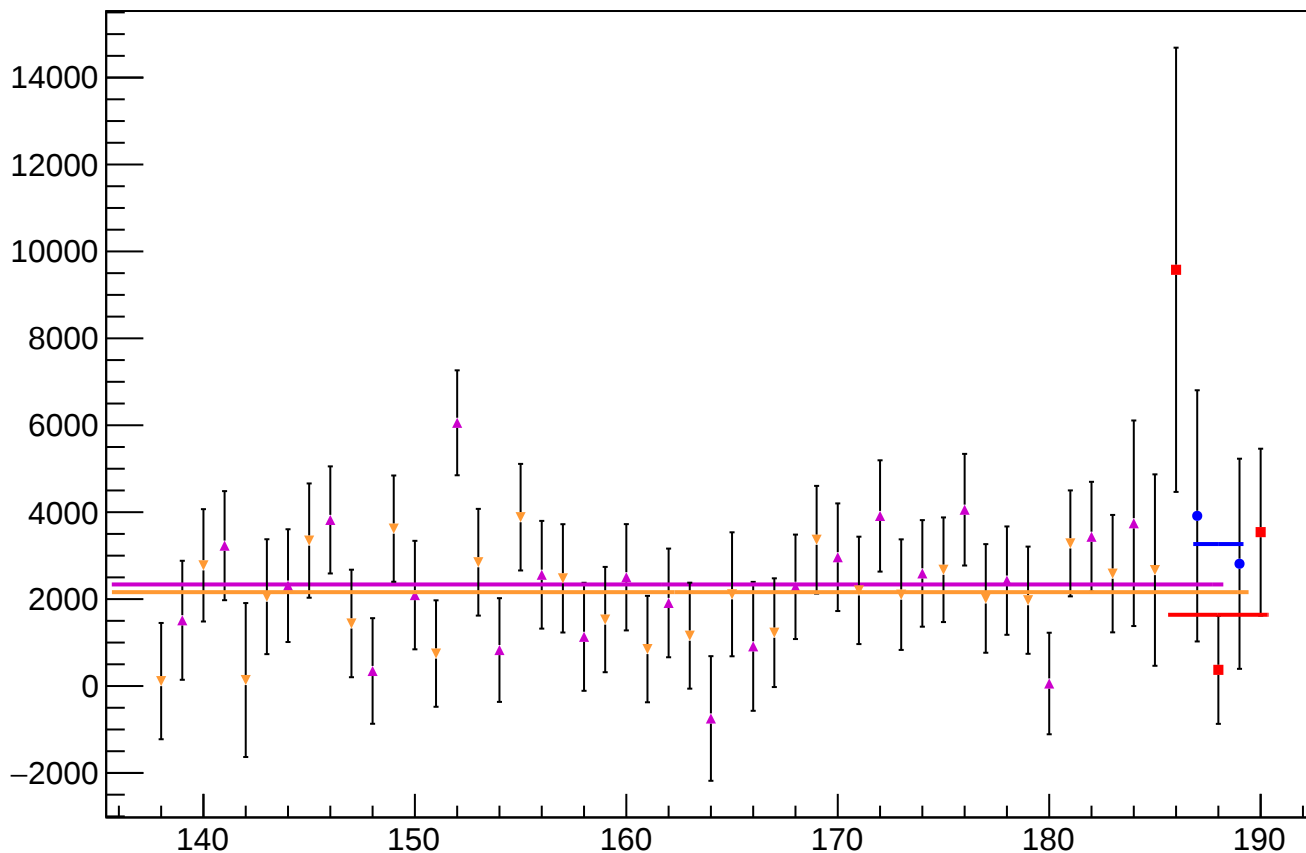
Right: 1172.741 ± 0.616 χ^2/NDF : 311788.3/4

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

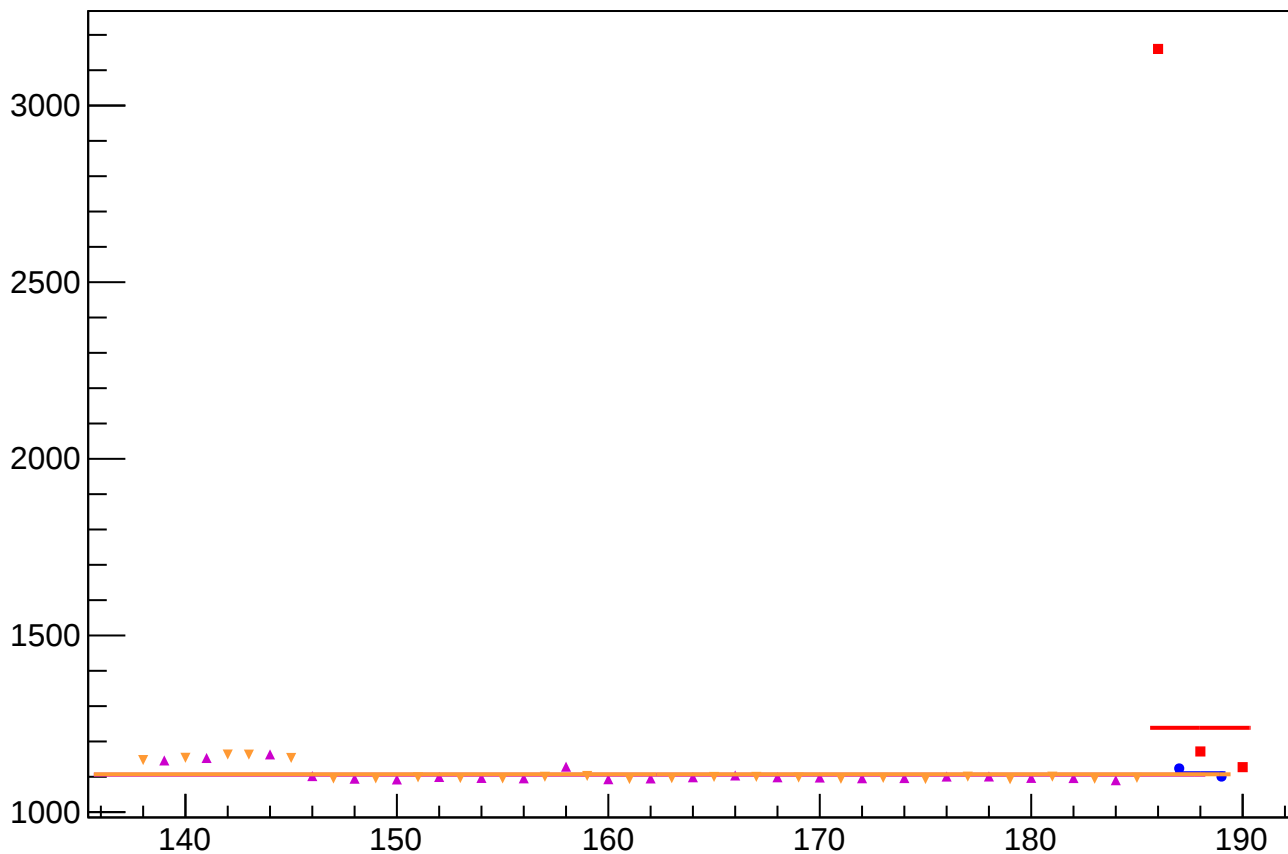
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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 $\pm$ 1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091 $\pm$ 0.182 χ^2/NDF :15185.2/24

Right Out: 1238.637 $\pm$ 0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955 $\pm$ 0.188 χ^2/NDF :11111.3/22

Left: 1106.543 $\pm$ 0.131 χ^2/NDF : 26315.2/47

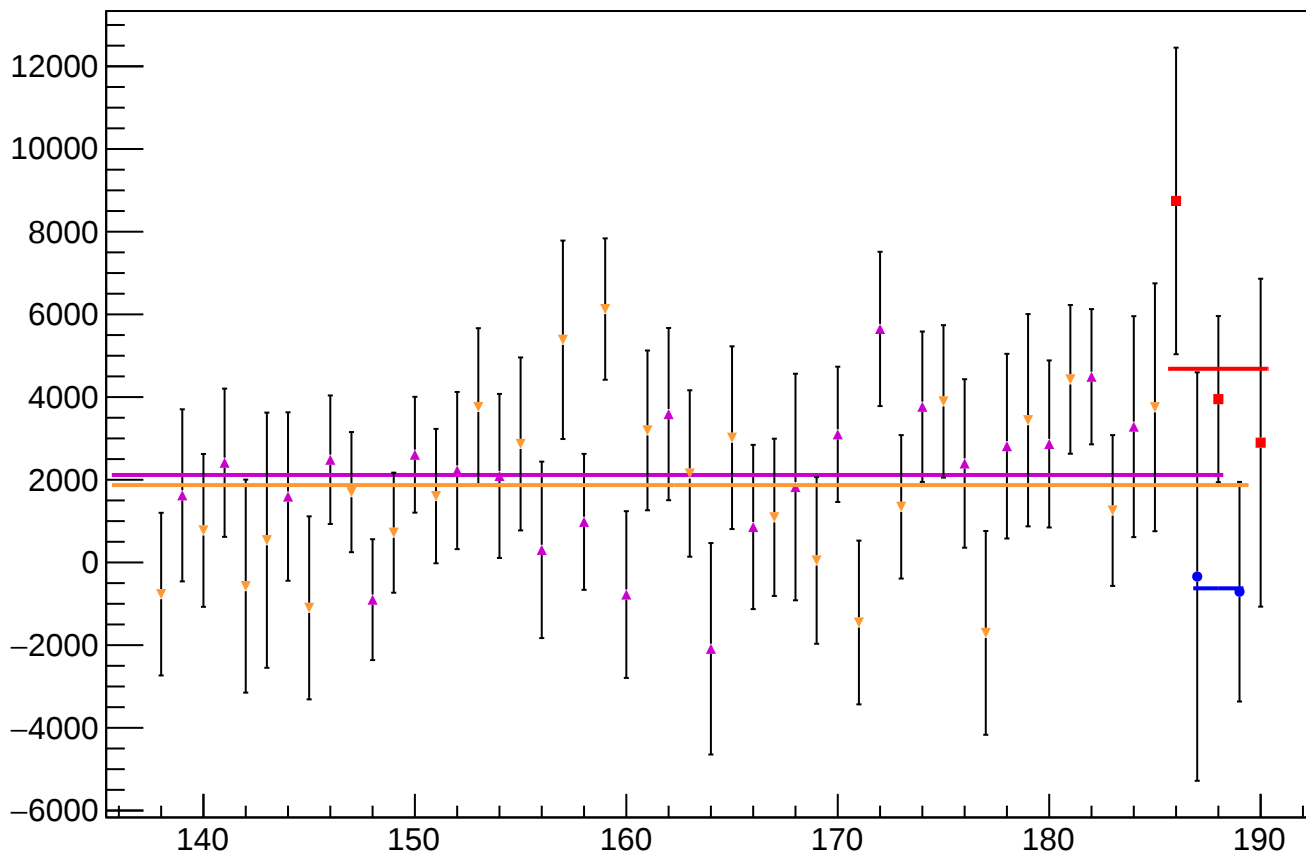
Right: 1208.687 $\pm$ 0.633 χ^2/NDF : 302689.7/4

In: 1106.039 $\pm$ 0.187 χ^2/NDF :11196.4/24

Out: 1114.943 $\pm$ 0.177 χ^2/NDF :341579.9/27

All: 1110.735 $\pm$ 0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -625.548+/-2339.235 χ^2/NDF : 0.0/1

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

Right Out: 4684.502+/-1613.584 χ^2/NDF : 1.5/2

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

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

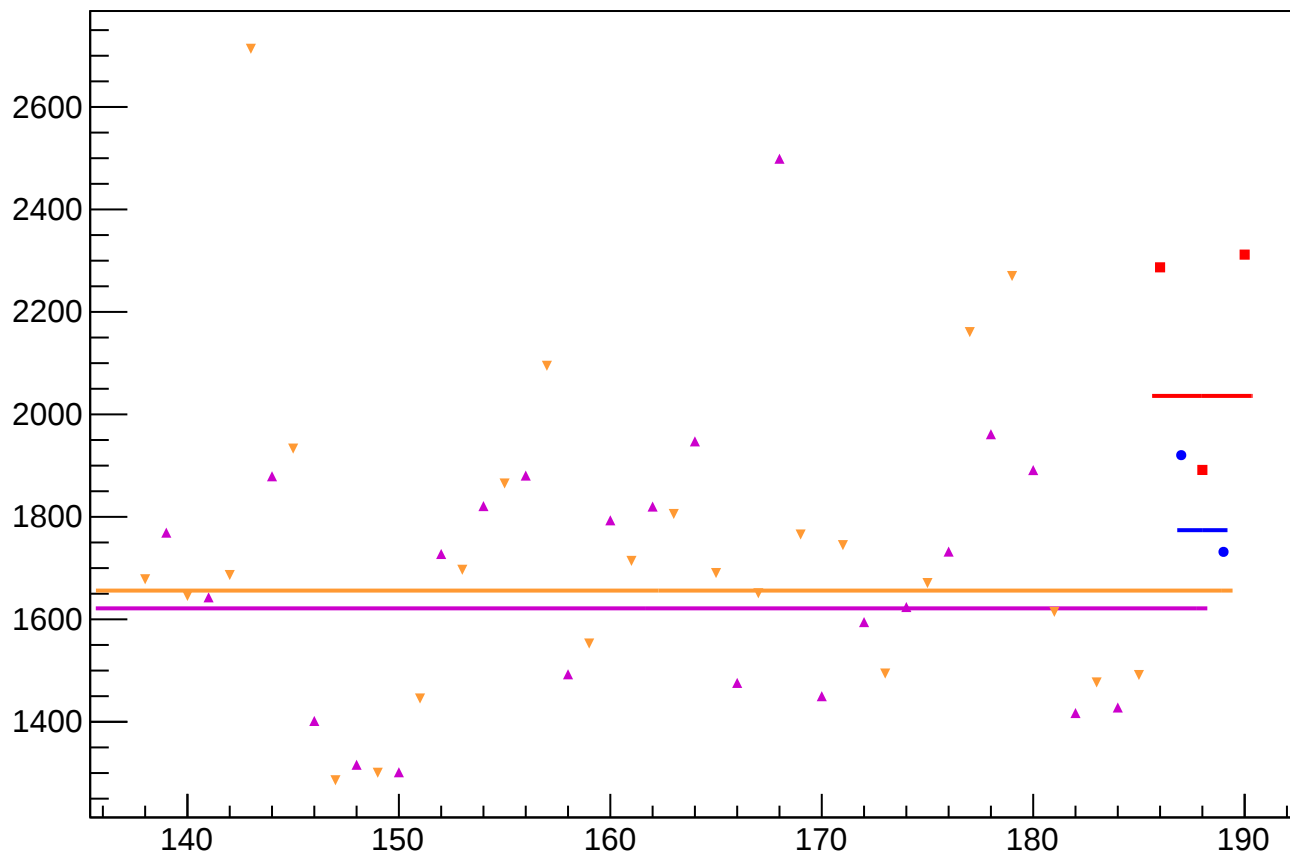
Right: 2972.505+/-1328.238 χ^2/NDF : 5.0/4

In: 2040.856+/-387.565 χ^2/NDF :20.1/24

Out: 2028.159+/-380.630 χ^2/NDF :30.5/27

All: 2034.392+/-271.565 χ^2/NDF : 50.7/52

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1774.010 $\pm$ 1.654 χ^2/NDF : 2265.9/1

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

Right Out: 2036.072 $\pm$ 1.141 χ^2/NDF : 29181.1/2

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

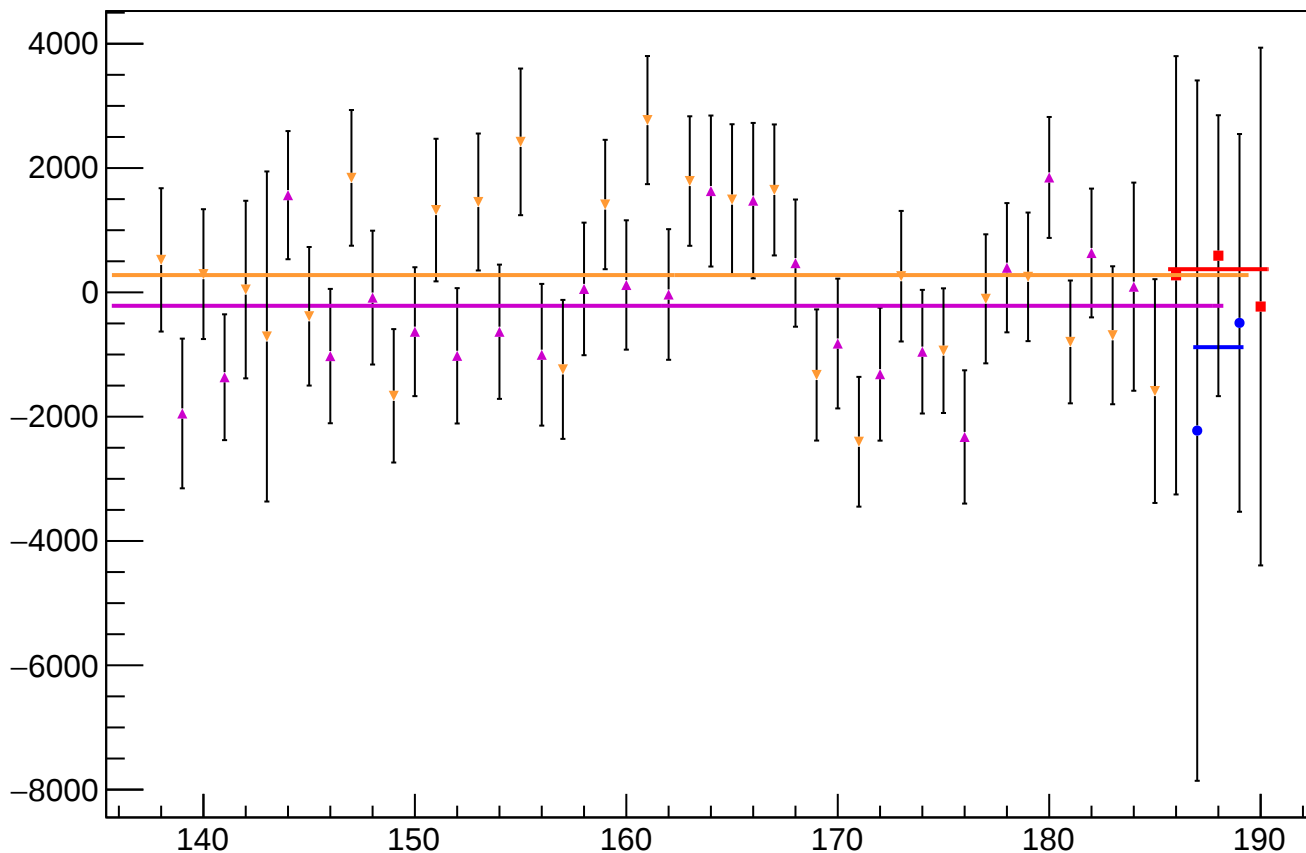
Right: 1951.581 $\pm$ 0.939 χ^2/NDF : 48455.3/4

In: 1625.606 $\pm$ 0.274 χ^2/NDF : 785852.8/24

Out: 1677.262 $\pm$ 0.269 χ^2/NDF : 1044477.1/27

All: 1651.900 $\pm$ 0.192 χ^2/NDF : 1848415.2/52

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -881.799+/-2674.489 χ^2/NDF : 0.1/1

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

Right Out: 372.800+/-1730.546 χ^2/NDF : 0.0/2

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

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

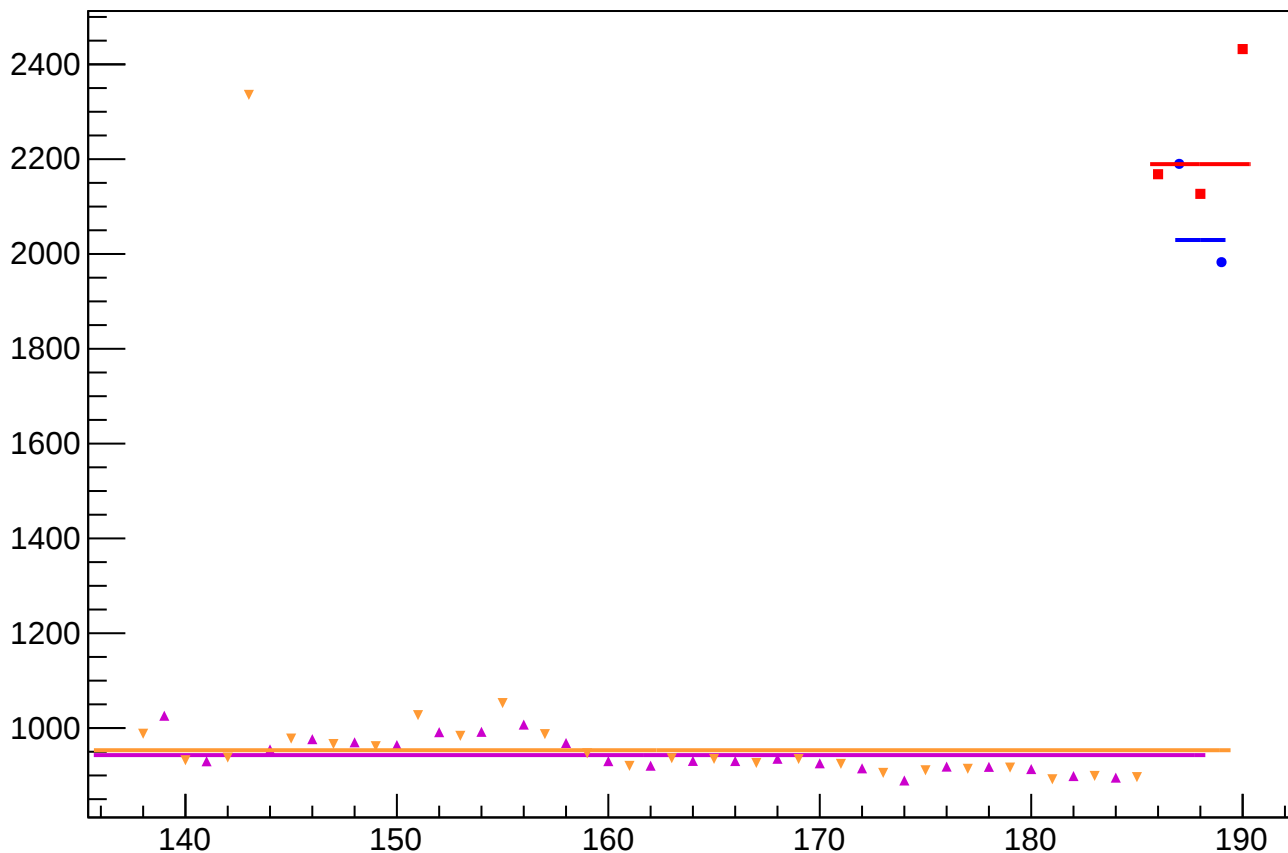
Right: 2.542+/-1452.916 χ^2/NDF : 0.3/4

In: -220.824+/-224.802 χ^2/NDF :24.6/24

Out: 279.645+/-221.738 χ^2/NDF :38.4/27

All: 32.845+/-157.864 χ^2/NDF : 65.5/52

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 2029.487+/-1.891 χ^2/NDF : 2098.3/1

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

Right Out: 2189.532+/-1.224 χ^2/NDF : 8405.3/2

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

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

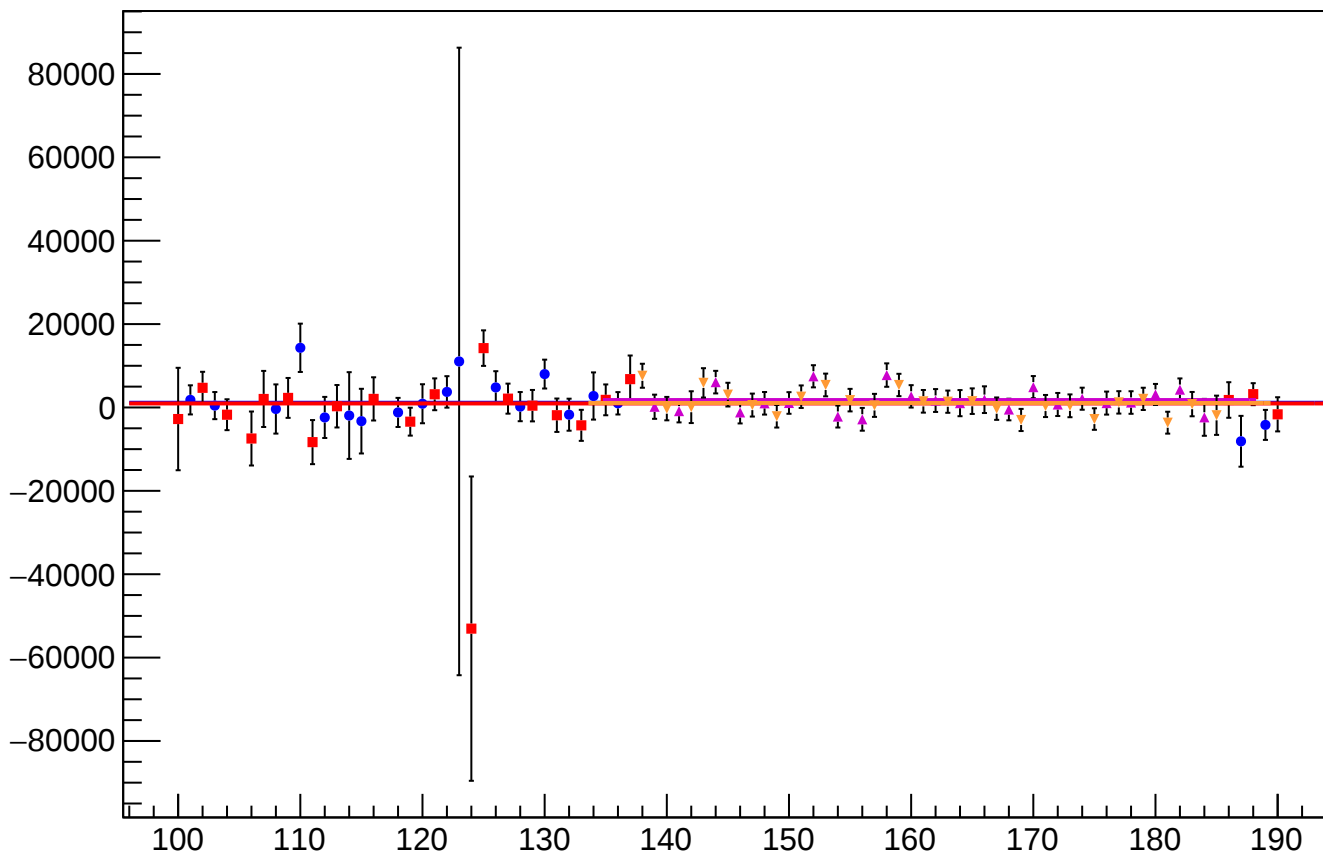
Right: 2142.299+/-1.027 χ^2/NDF : 15551.9/4

In: 950.603+/-0.159 χ^2/NDF : 378277.1/24

Out: 973.518+/-0.157 χ^2/NDF : 1618668.3/27

All: 962.218+/-0.112 χ^2/NDF : 2007478.7/52

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1128.111+/-965.305 χ^2/NDF : 17.2/18

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

Right Out: 961.399+/-910.421 χ^2/NDF : 25.3/21

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

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

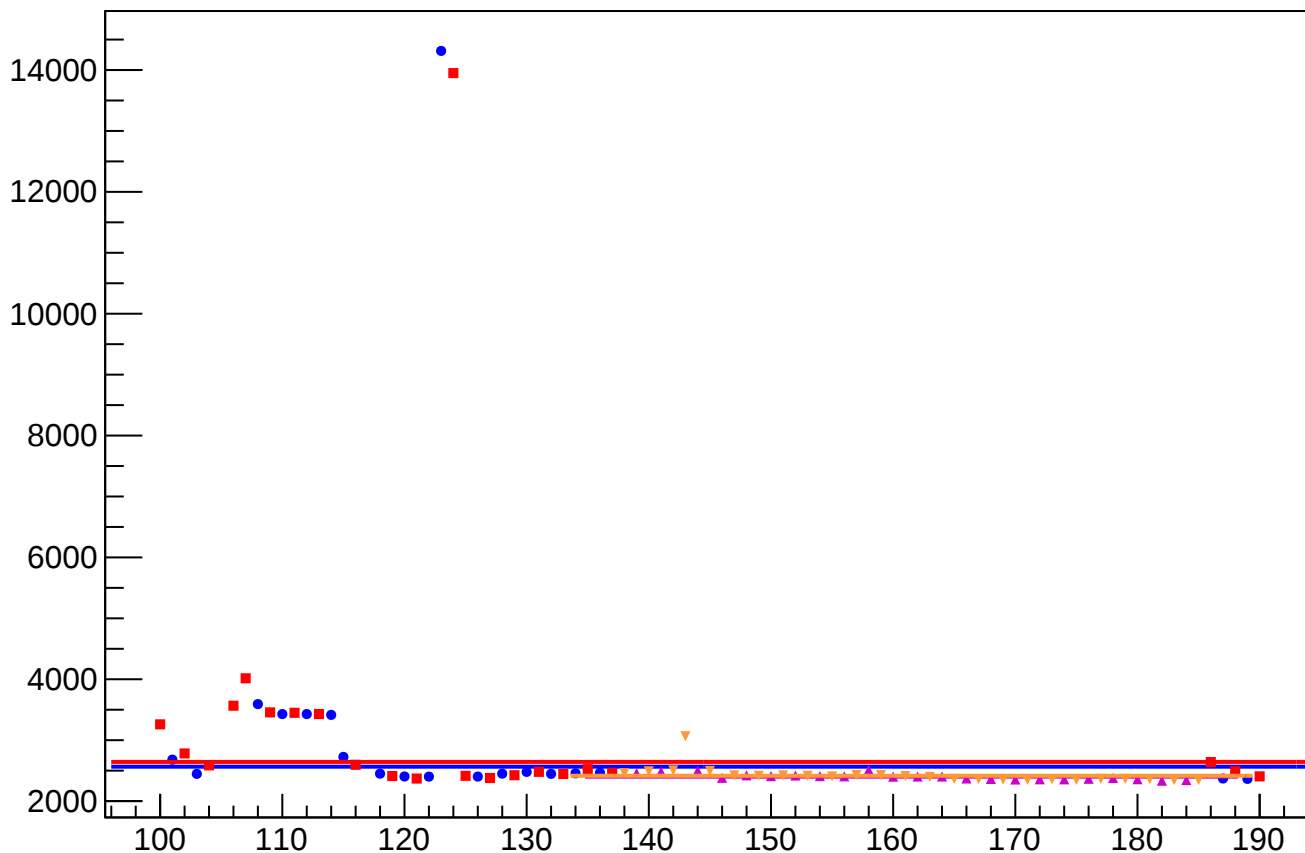
Right: 1039.881+/-662.318 χ^2/NDF : 42.5/40

In: 1606.744+/-494.567 χ^2/NDF : 41.6/41

Out: 1045.701+/-479.457 χ^2/NDF : 48.9/46

All: 1317.521+/-344.245 χ^2/NDF : 91.2/88

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2565.046 $\pm$ 0.683 χ^2 /NDF: 262955.2/18

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

Right Out: 2643.567 $\pm$ 0.644 χ^2 /NDF: 545425.2/21

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

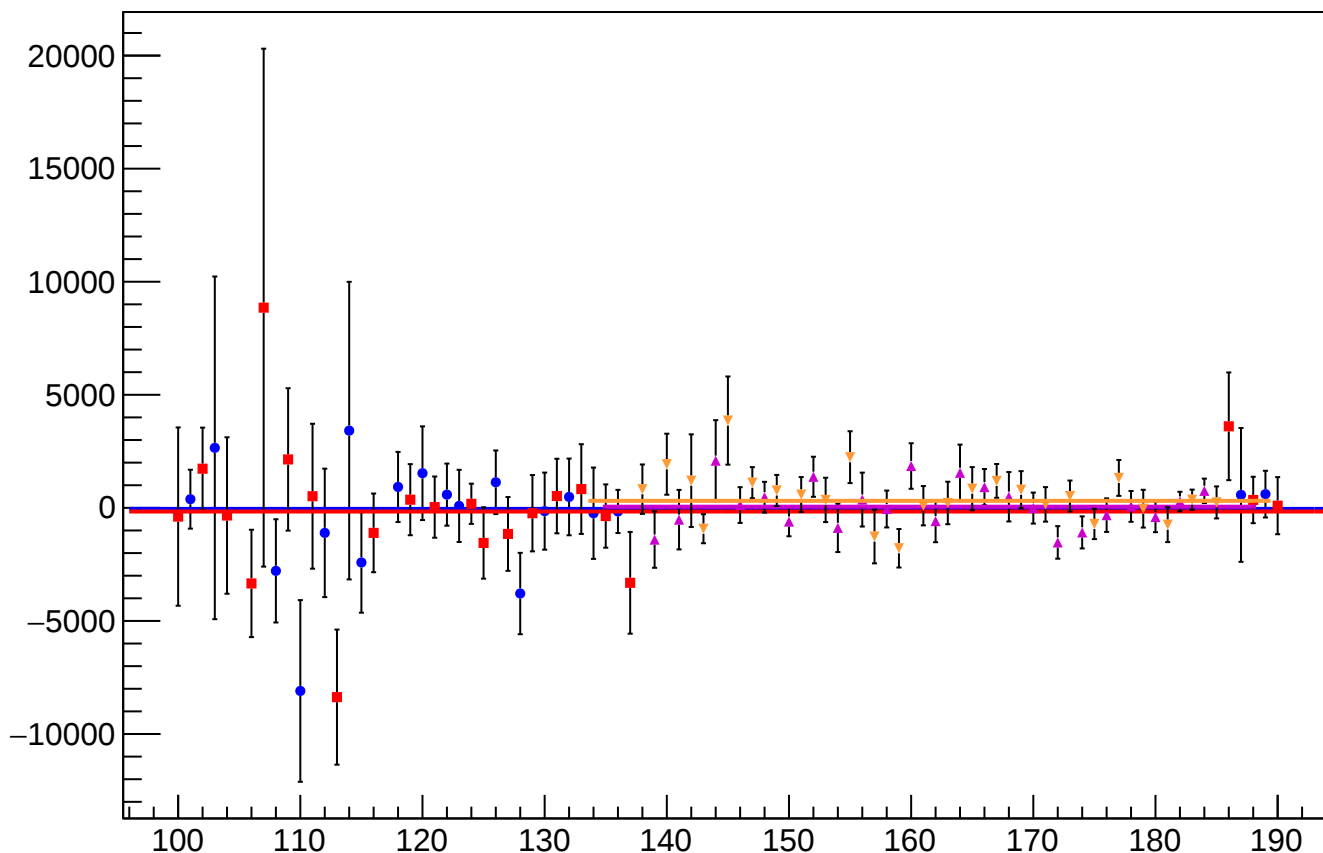
Right: 2606.602 $\pm$ 0.468 χ^2 /NDF: 815384.0/40

In: 2444.372 $\pm$ 0.350 χ^2 /NDF: 319083.2/41

Out: 2479.128 $\pm$ 0.339 χ^2 /NDF: 718348.1/46

All: 2462.289 $\pm$ 0.243 χ^2 /NDF: 1042522.9/88

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: -45.548 ± 386.810 $\chi^2/\text{NDF}: 14.0/18$

Left Out: 310.873 ± 160.650 $\chi^2/\text{NDF}: 29.7/24$

Right Out: -161.955 ± 360.319 $\chi^2/\text{NDF}: 18.6/21$

Left In: 51.454 ± 161.744 $\chi^2/\text{NDF}: 23.8/22$

Left: 182.044 ± 113.982 $\chi^2/\text{NDF}: 54.9/47$

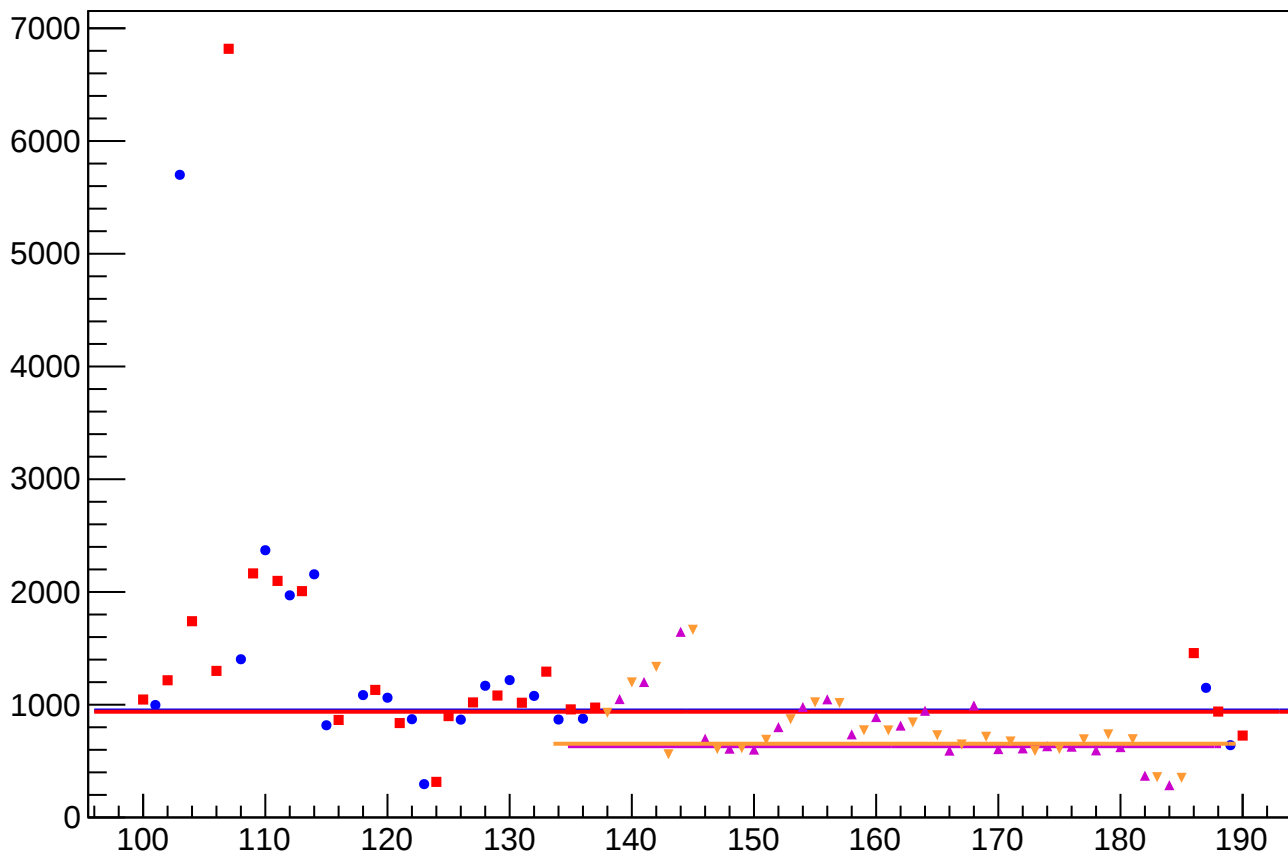
Right: -107.873 ± 263.652 $\chi^2/\text{NDF}: 32.6/40$

In: 37.017 ± 149.224 $\chi^2/\text{NDF}: 37.9/41$

Out: 232.467 ± 146.727 $\chi^2/\text{NDF}: 49.7/46$

All: 136.391 ± 104.623 $\chi^2/\text{NDF}: 88.5/88$

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 948.747 $\pm$ 0.274 χ^2 /NDF: 2114603.2/18

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

Right Out: 937.875 $\pm$ 0.255 χ^2 /NDF: 2818480.4/21

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

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

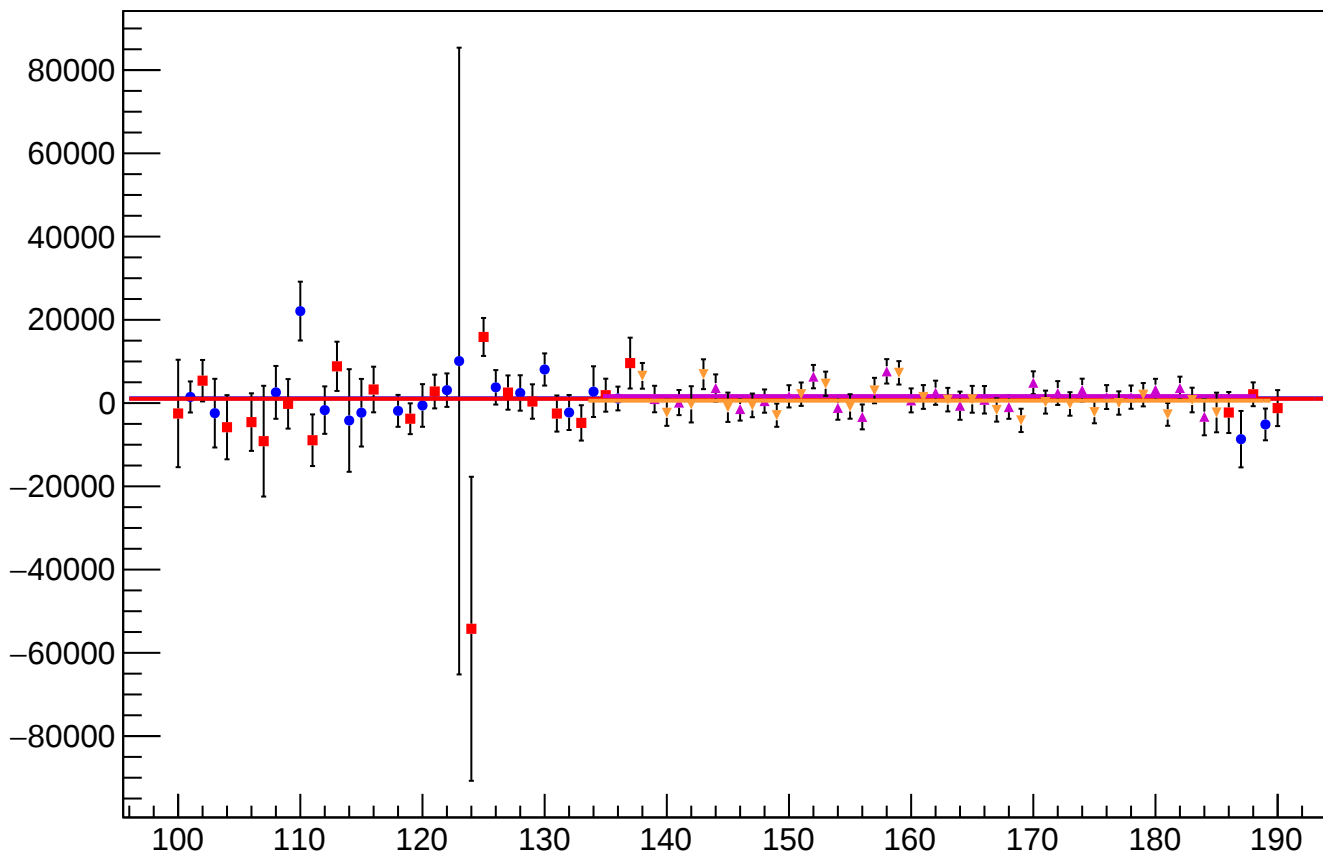
Right: 942.926 $\pm$ 0.186 χ^2 /NDF: 4933929.6/40

In: 679.185 $\pm$ 0.106 χ^2 /NDF:7198581.4/41

Out: 700.908 $\pm$ 0.104 χ^2 /NDF:7110156.3/46

All: 690.230 $\pm$ 0.074 χ^2 /NDF: 14330287.3/88

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1136.587+/-1098.192 χ^2/NDF : 19.9/18

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

Right Out: 1033.523+/-1041.450 χ^2/NDF : 27.7/21

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

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

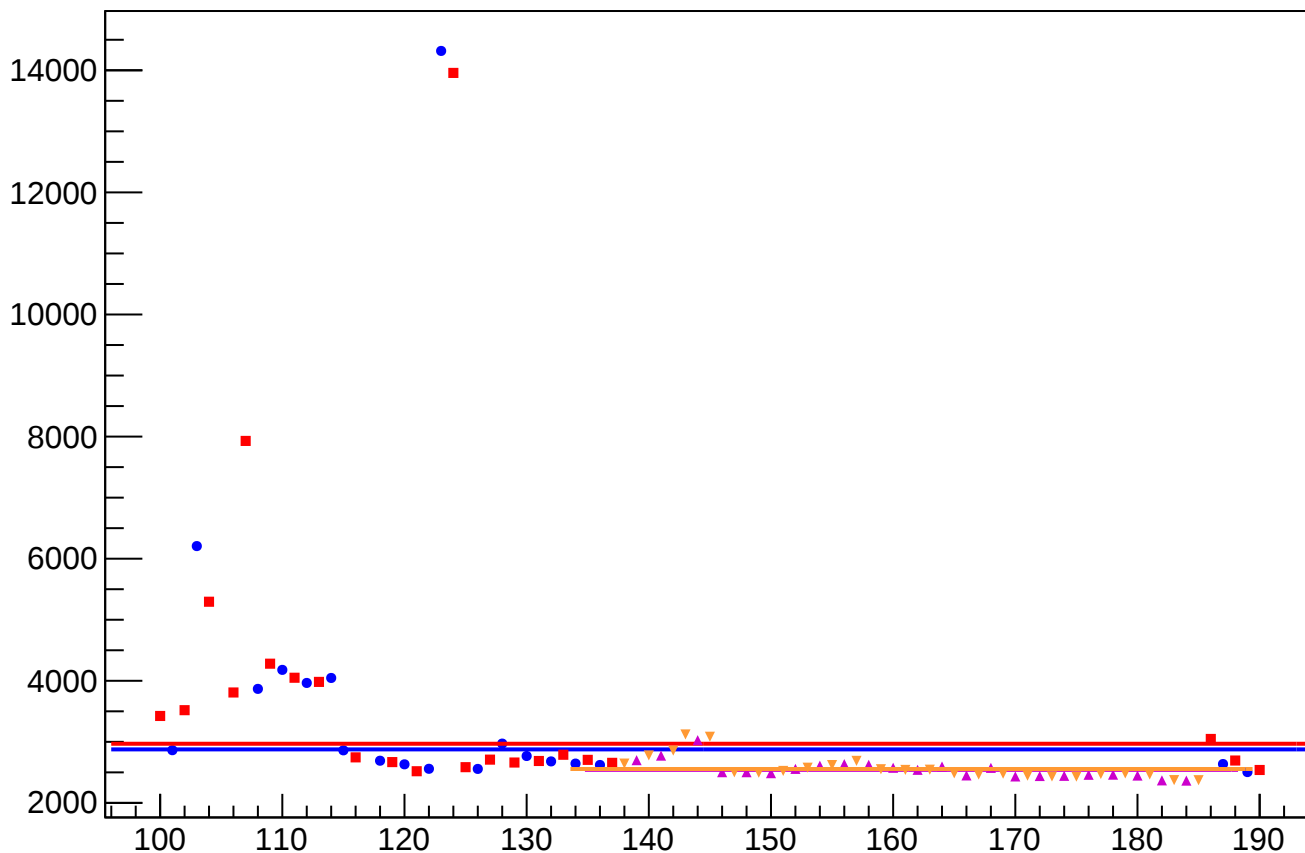
Right: 1082.324+/-755.680 χ^2/NDF : 47.6/40

In: 1551.509+/-533.332 χ^2/NDF : 38.2/41

Out: 692.880+/-518.050 χ^2/NDF : 53.2/46

All: 1109.717+/-371.602 χ^2/NDF : 92.8/88

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2876.318+/-0.777 χ^2/NDF : 660790.9/18

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

Right Out: 2968.780+/-0.736 χ^2/NDF : 1053534.6/21

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

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

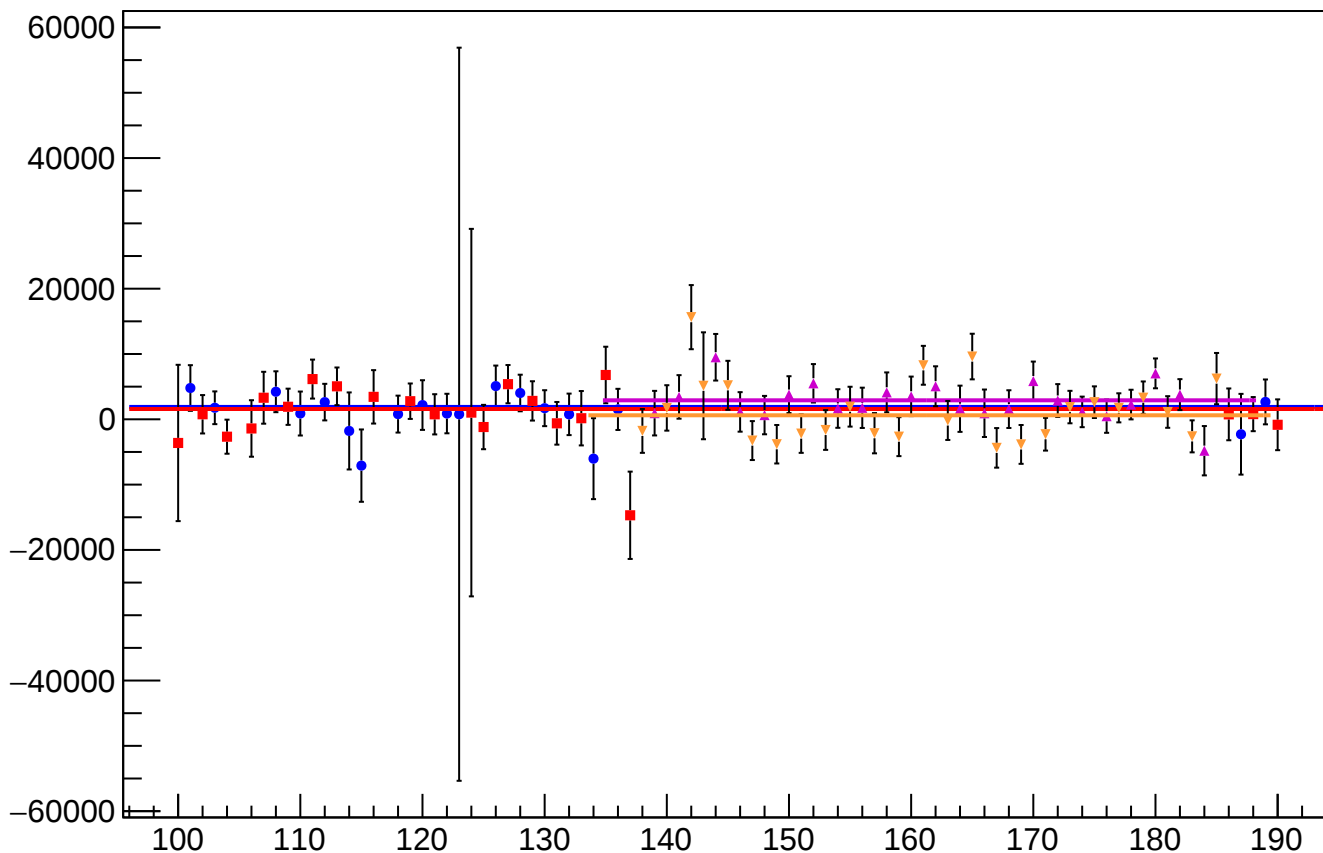
Right: 2925.000+/-0.534 χ^2/NDF : 1721790.0/40

In: 2620.076+/-0.377 χ^2/NDF :898041.6/41

Out: 2657.595+/-0.366 χ^2/NDF :1445551.7/46

All: 2639.381+/-0.263 χ^2/NDF : 2348686.1/88

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1894.758 $\pm$ 785.288 χ^2 /NDF: 8.6/18

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

Right Out: 1578.122 $\pm$ 731.511 χ^2 /NDF: 18.8/21

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

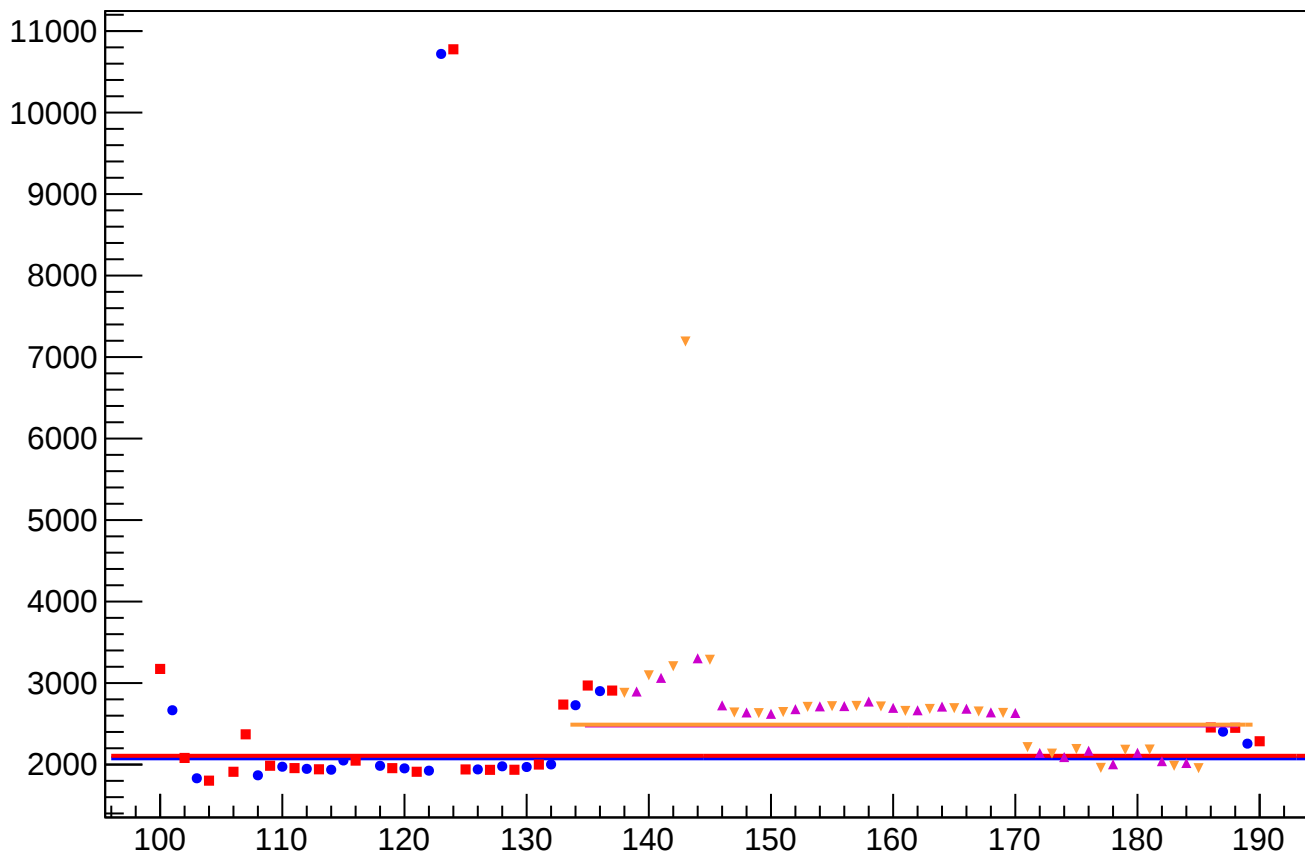
Right: 1725.228 $\pm$ 535.259 χ^2 /NDF: 27.5/40

In: 2535.479 $\pm$ 476.601 χ^2 /NDF:27.0/41

Out: 995.410 $\pm$ 459.782 χ^2 /NDF:65.1/46

All: 1737.791 $\pm$ 330.901 χ^2 /NDF: 97.5/88

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2076.504+/-0.555 χ^2/NDF : 329469.6/18

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

Right Out: 2107.530+/-0.517 χ^2/NDF : 504649.8/21

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

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

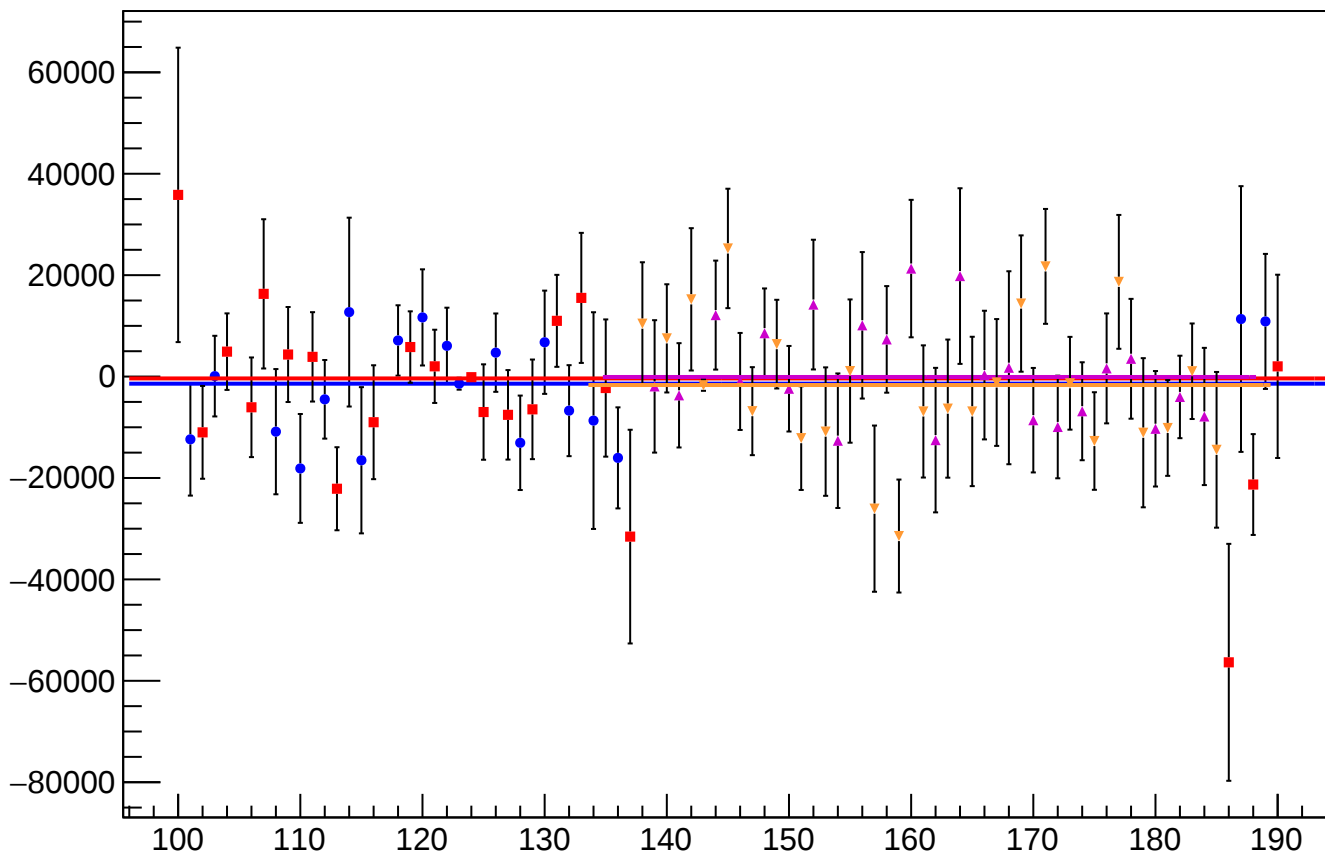
Right: 2093.116+/-0.378 χ^2/NDF : 835791.0/40

In: 2330.963+/-0.337 χ^2/NDF :1330320.0/41

Out: 2338.645+/-0.325 χ^2/NDF :2198869.5/46

All: 2334.942+/-0.234 χ^2/NDF : 3529458.6/88

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1402.432 ± 1050.523 χ^2/NDF : 16.8/18

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

Right Out: -368.342 ± 692.829 χ^2/NDF : 31.2/21

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

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

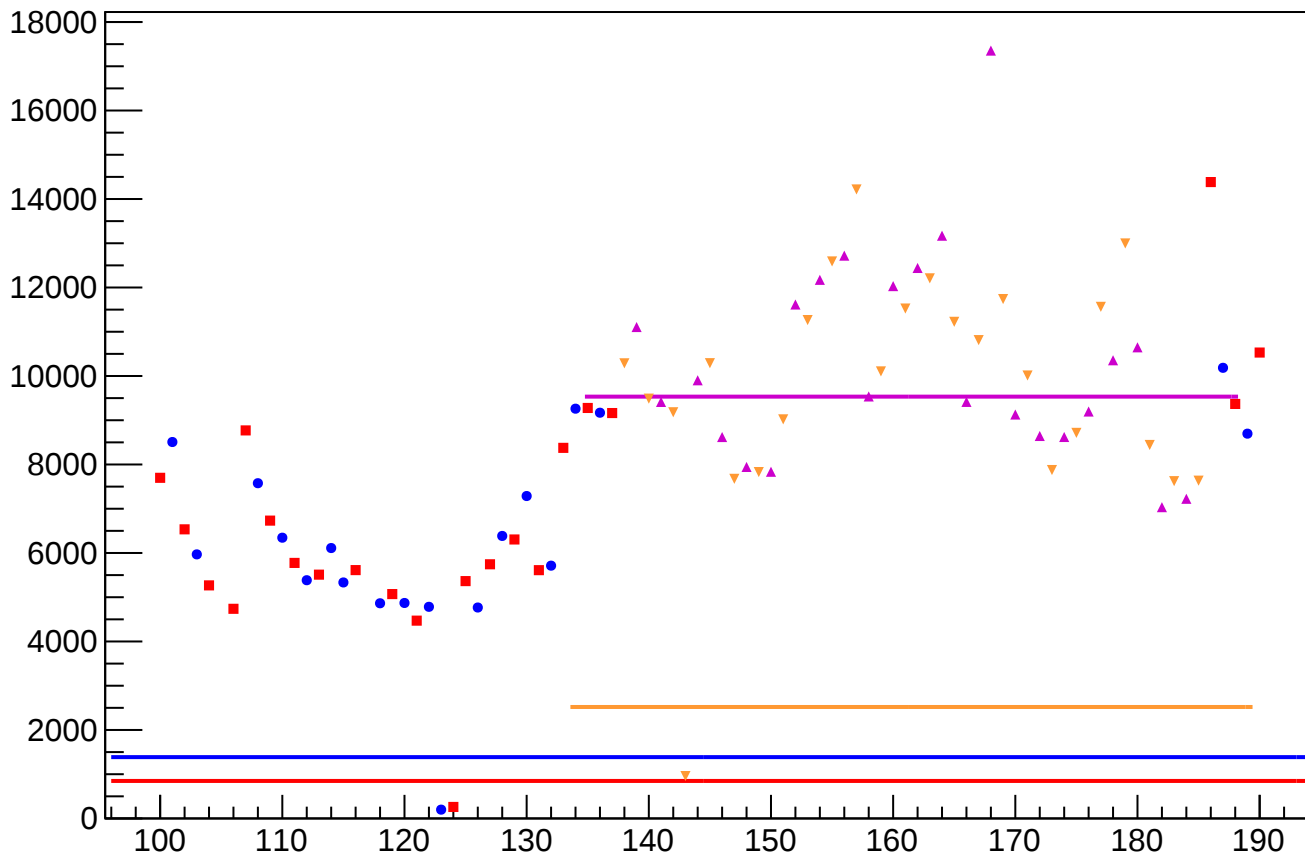
Right: -681.787 ± 578.372 χ^2/NDF : 48.7/40

In: -1179.311 ± 957.790 χ^2/NDF : 30.9/41

Out: -792.991 ± 568.208 χ^2/NDF : 64.7/46

All: -893.559 ± 488.684 χ^2/NDF : 95.7/88

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1386.179+/-0.743

χ^2/NDF : 10862472.5/18

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 847.794+/-0.490

χ^2/NDF : 14139319.6/21

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Right: 1010.985+/-0.409

χ^2/NDF : 25367866.0/40

In: 2761.095+/-0.677

χ^2/NDF : 32479893.2/41

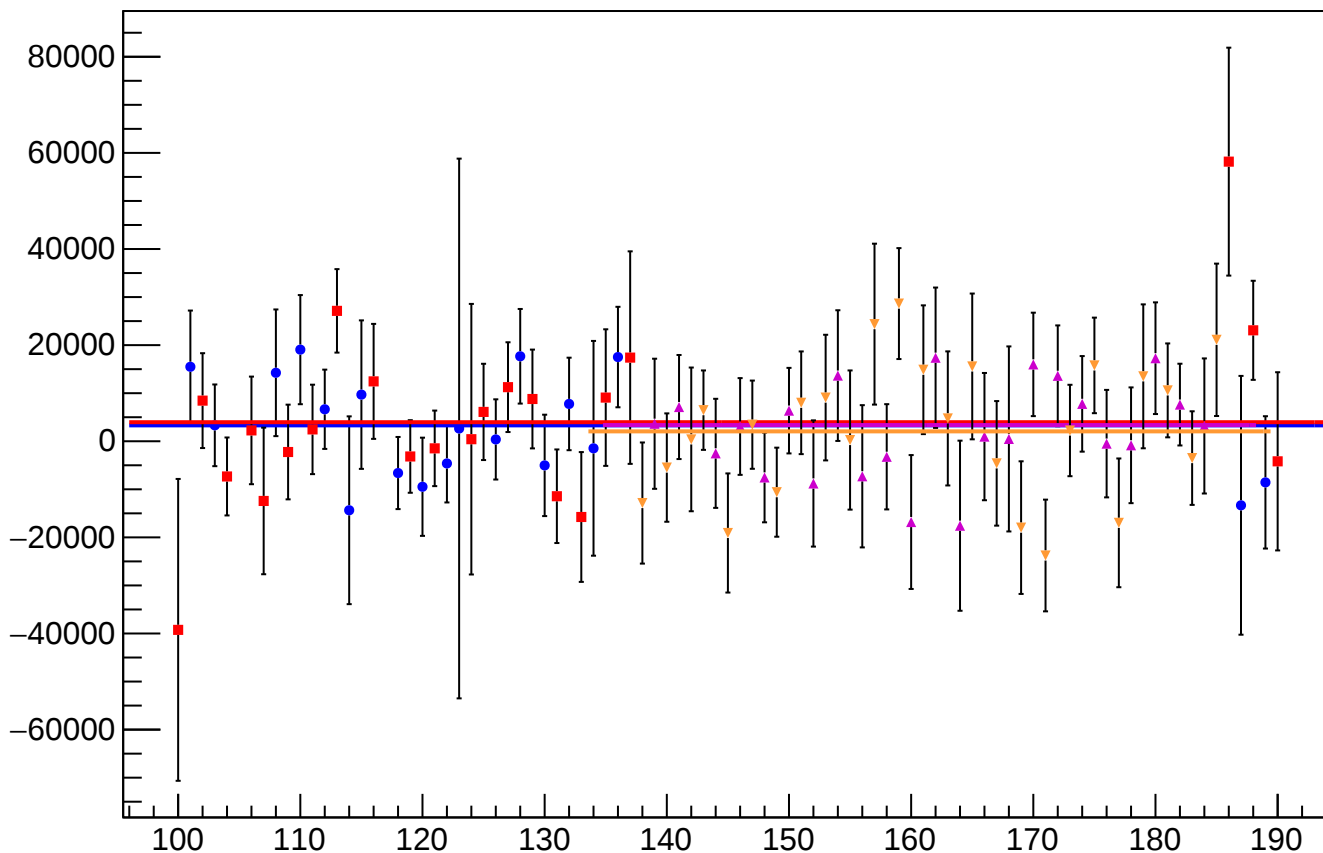
Out: 1395.046+/-0.402

χ^2/NDF : 41592881.7/46

All: 1750.663+/-0.346

χ^2/NDF : 77082058.4/8

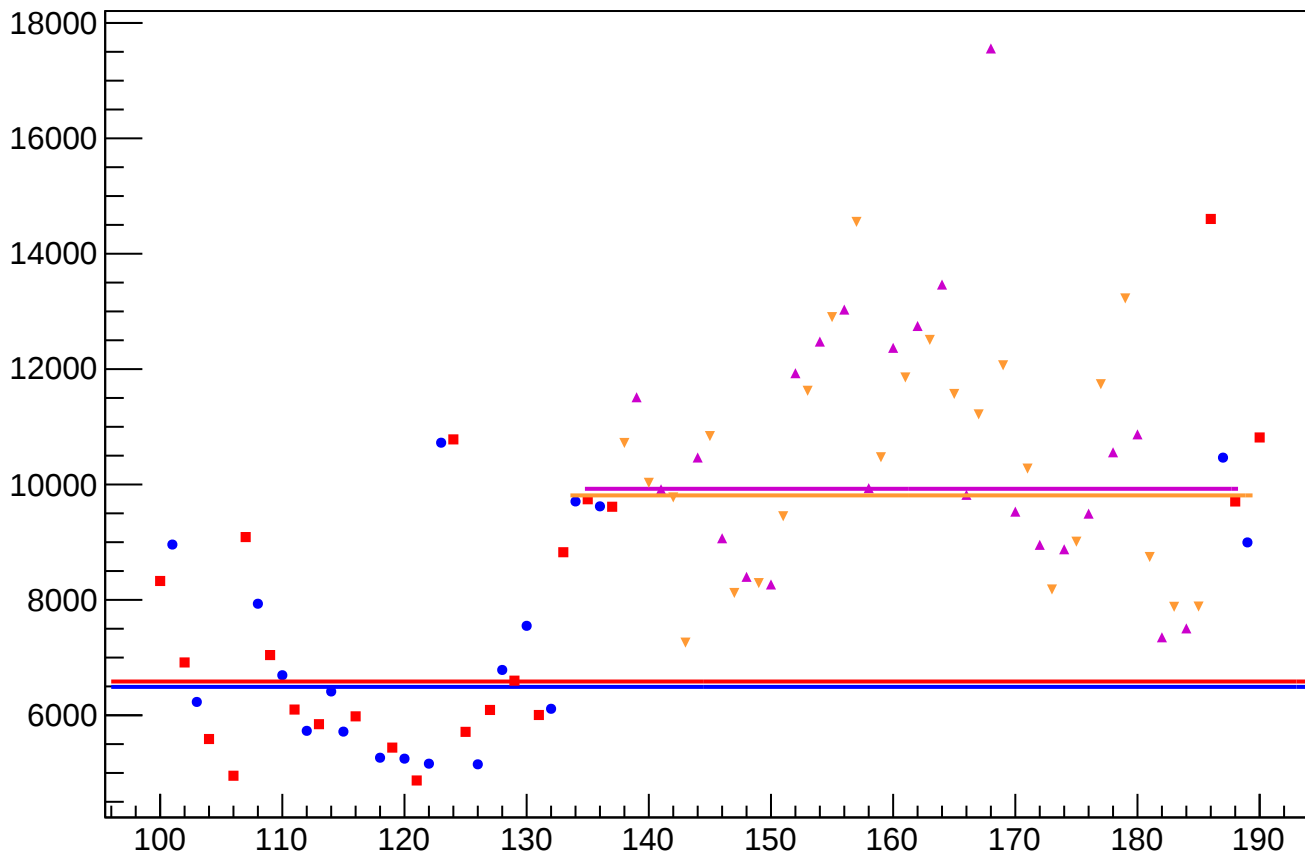
asym_atl2_mean vs Slug, Sign Corrected



Right In: 3305.089+/-2490.068 χ^2/NDF : 15.2/18
 Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24
 Right Out: 3963.143+/-2332.050 χ^2/NDF : 29.5/21
 Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 3655.657+/-1702.132 χ^2/NDF : 44.8/40
 In: 3339.419+/-1736.636 χ^2/NDF : 28.3/41
 Out: 3010.137+/-1649.519 χ^2/NDF : 60.6/46
 All: 3166.312+/-1195.998 χ^2/NDF : 88.9/88

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6491.855+/-1.761 χ^2/NDF : 693001.6/18

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

Right Out: 6585.026+/-1.649 χ^2/NDF : 1085692.0/21

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

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

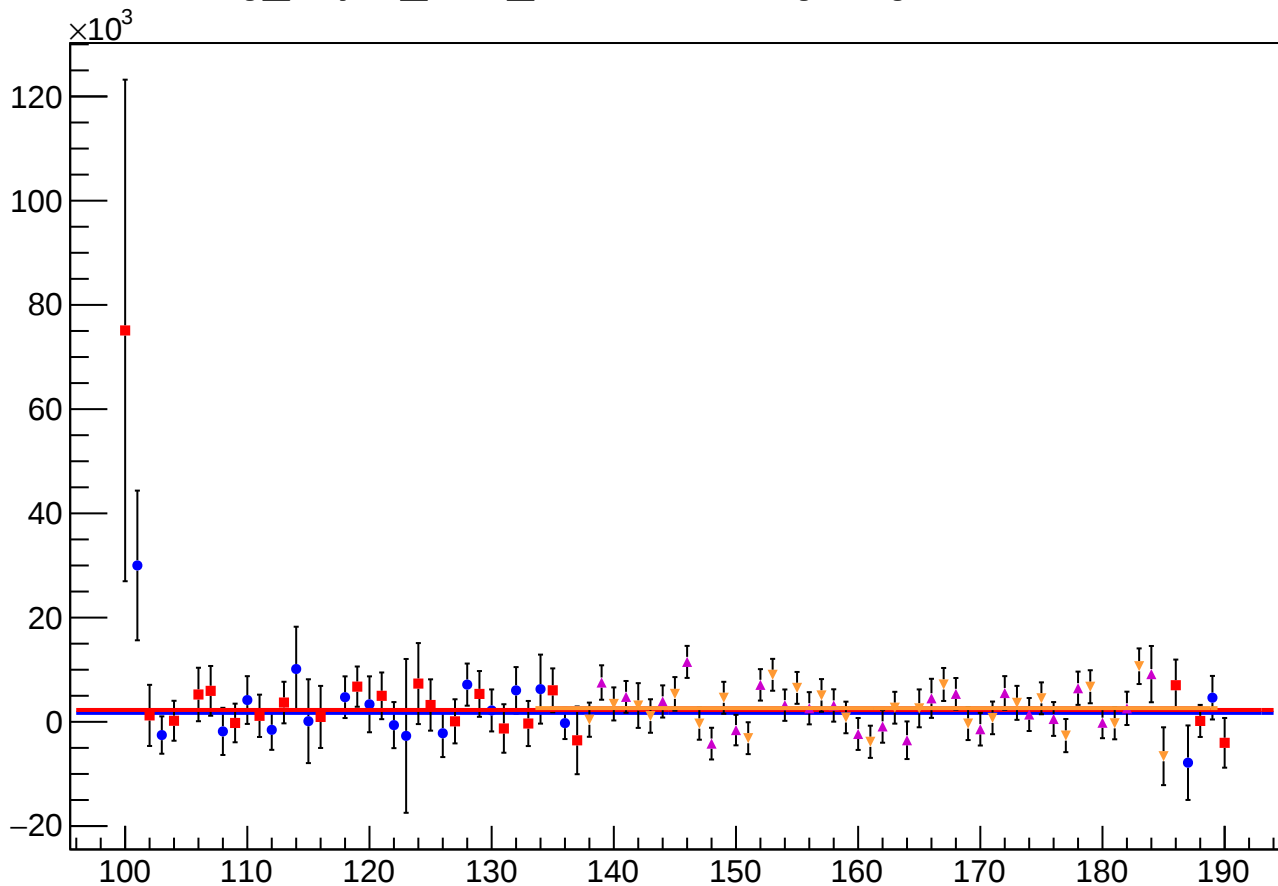
Right: 6541.492+/-1.204 χ^2/NDF : 1780185.4/40

In: 8255.278+/-1.228 χ^2/NDF : 3857559.0/41

Out: 8196.972+/-1.166 χ^2/NDF : 4212059.4/46

All: 8224.626+/-0.846 χ^2/NDF : 8070803.6/88

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1719.498+/-1079.481 χ^2/NDF : 15.7/18

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

Right Out: 2278.097+/-972.680 χ^2/NDF : 12.9/21

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

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

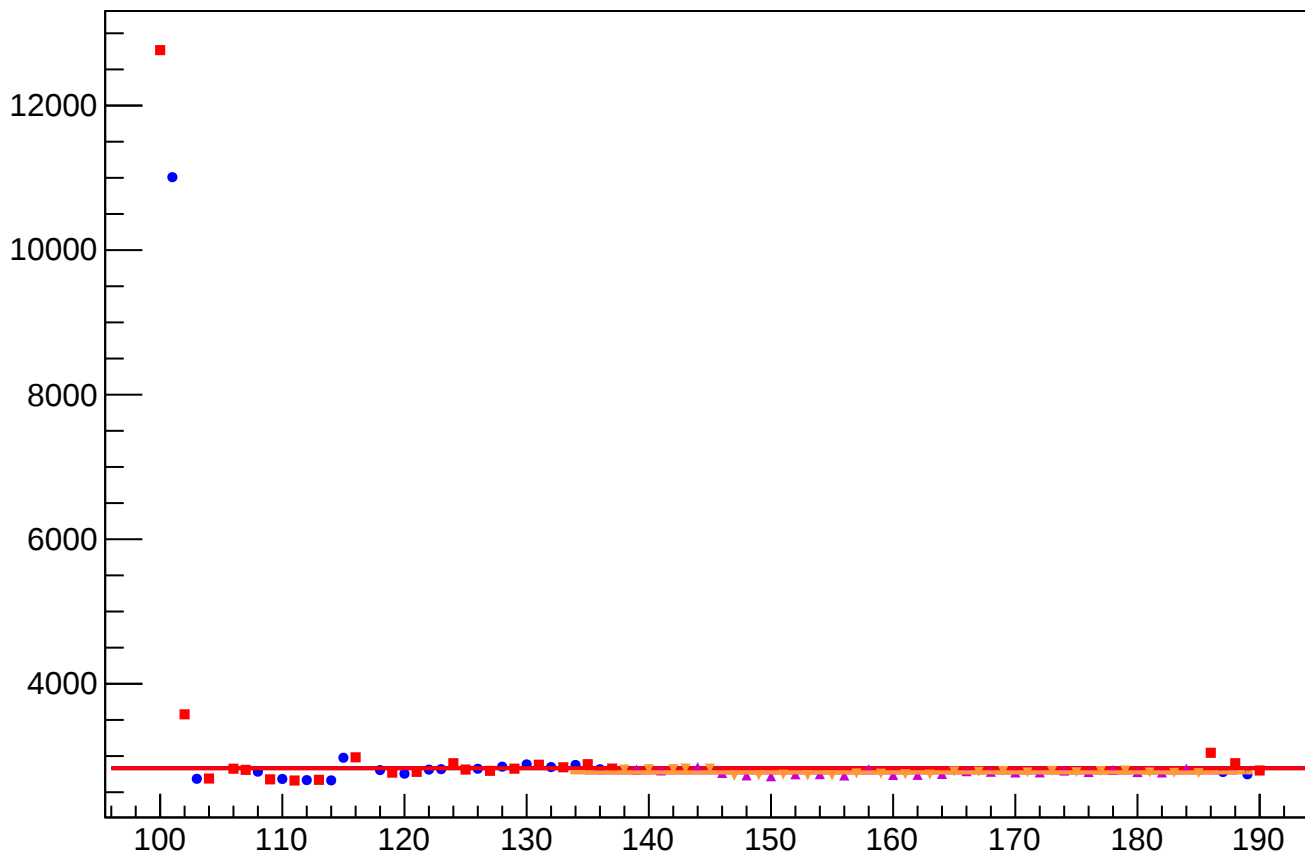
Right: 2027.791+/-722.605 χ^2/NDF : 28.7/40

In: 2385.998+/-565.922 χ^2/NDF : 51.4/41

Out: 2526.309+/-538.200 χ^2/NDF : 48.0/46

All: 2459.674+/-389.997 χ^2/NDF : 99.5/88

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2832.746 $\pm$ 0.763 χ^2 /NDF: 661163.6/18

Left Out: 2773.713 $\pm$ 0.457 χ^2 /NDF: 4616.5/24

Right Out: 2831.740 $\pm$ 0.688 χ^2 /NDF: 138428.2/21

Left In: 2774.036 $\pm$ 0.470 χ^2 /NDF: 4985.3/22

Left: 2773.870 $\pm$ 0.328 χ^2 /NDF: 9602.0/47

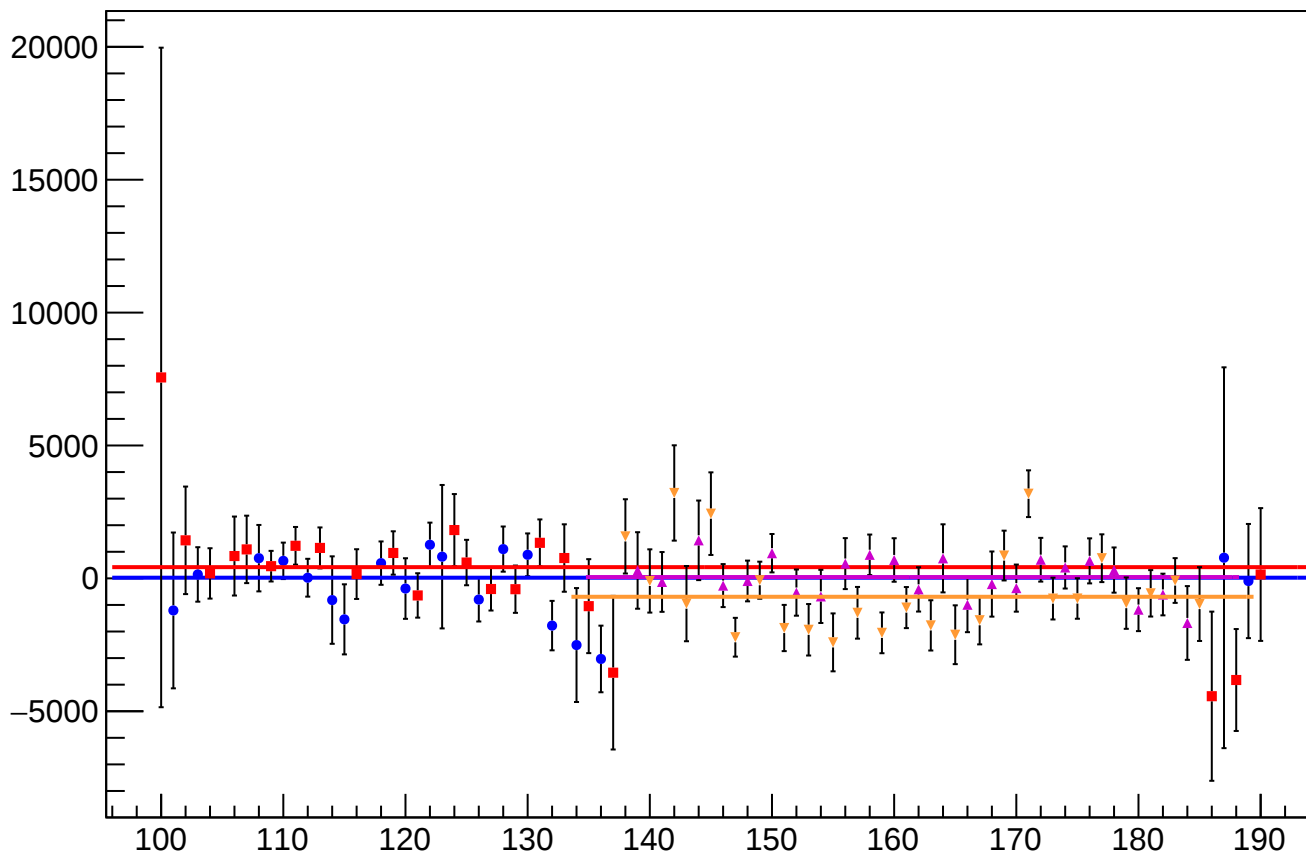
Right: 2832.191 $\pm$ 0.511 χ^2 /NDF: 799592.7/40

In: 2790.172 $\pm$ 0.400 χ^2 /NDF: 670438.8/41

Out: 2791.479 $\pm$ 0.381 χ^2 /NDF: 147983.3/46

All: 2790.858 $\pm$ 0.276 χ^2 /NDF: 818427.7/88

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 25.000+/-240.790 χ^2/NDF : 20.8/18

Left Out: -692.808+/-187.297 χ^2/NDF : 56.0/24

Right Out: 422.087+/-219.325 χ^2/NDF : 19.3/21

Left In: 49.244+/-189.190 χ^2/NDF : 13.6/22

Left: -325.512+/-133.103 χ^2/NDF : 77.4/47

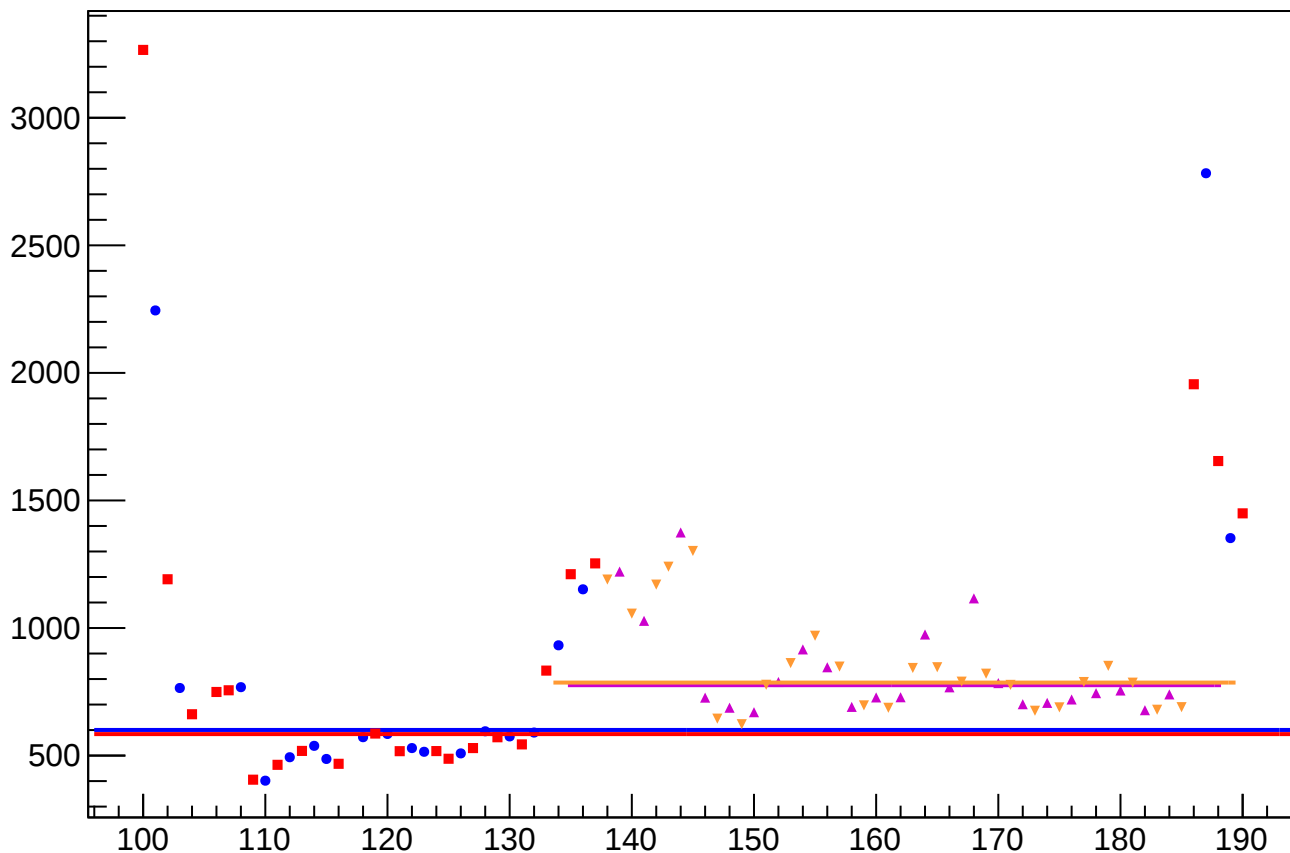
Right: 242.028+/-162.145 χ^2/NDF : 41.6/40

In: 39.990+/-148.764 χ^2/NDF : 34.4/41

Out: -222.633+/-142.430 χ^2/NDF : 90.2/46

All: -97.032+/-102.879 χ^2/NDF : 126.3/88

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 600.459+/-0.170 χ^2/NDF : 1859505.4/18

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

Right Out: 584.174+/-0.155 χ^2/NDF : 2370600.3/21

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

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

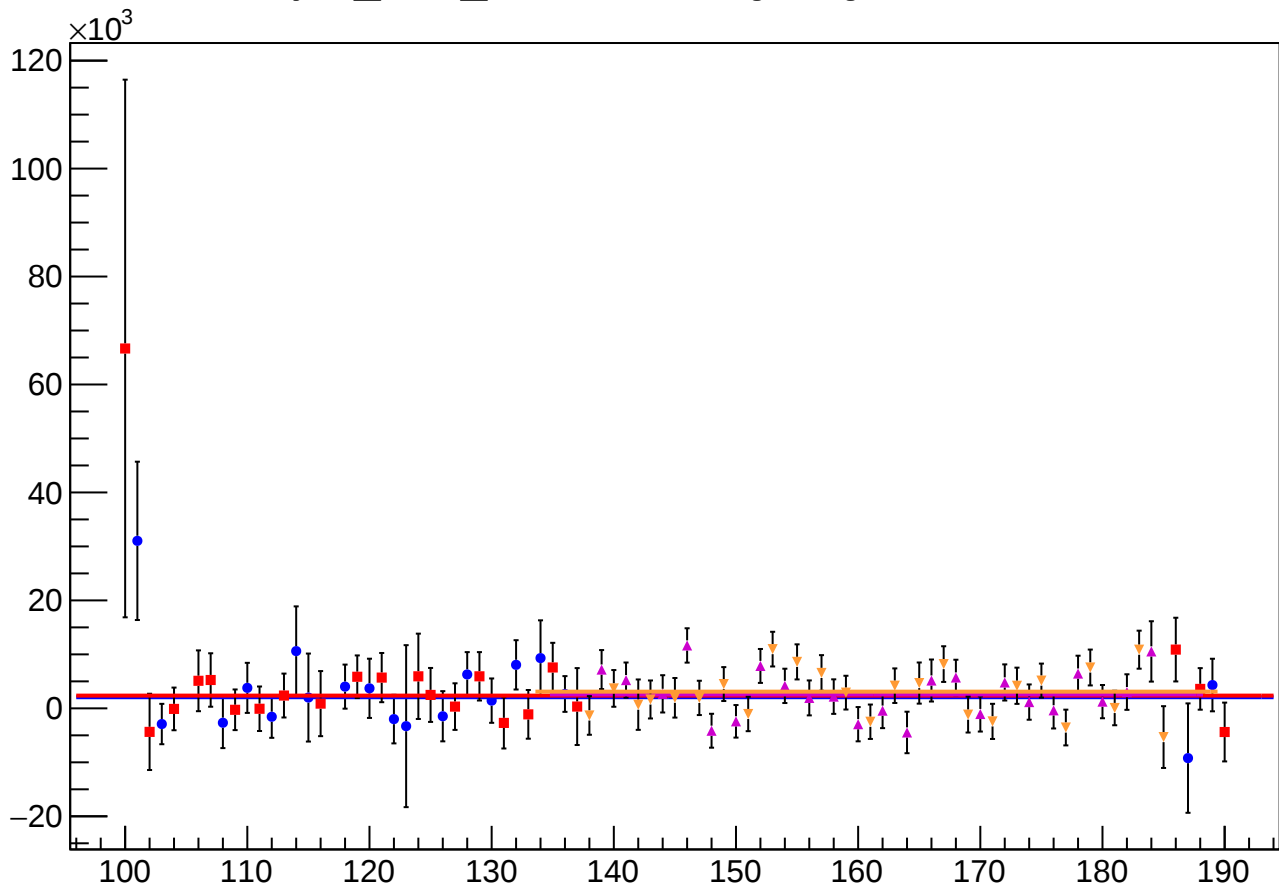
Right: 591.558+/-0.115 χ^2/NDF : 4235105.4/40

In: 708.953+/-0.105 χ^2/NDF :3572974.5/41

Out: 700.986+/-0.101 χ^2/NDF :4601188.1/46

All: 704.796+/-0.073 χ^2/NDF : 8177155.5/88

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2063.049 $\pm$ 1128.066 χ^2 /NDF: 15.9/18

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

Right Out: 2359.998 $\pm$ 1033.043 χ^2 /NDF: 13.7/21

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF:35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

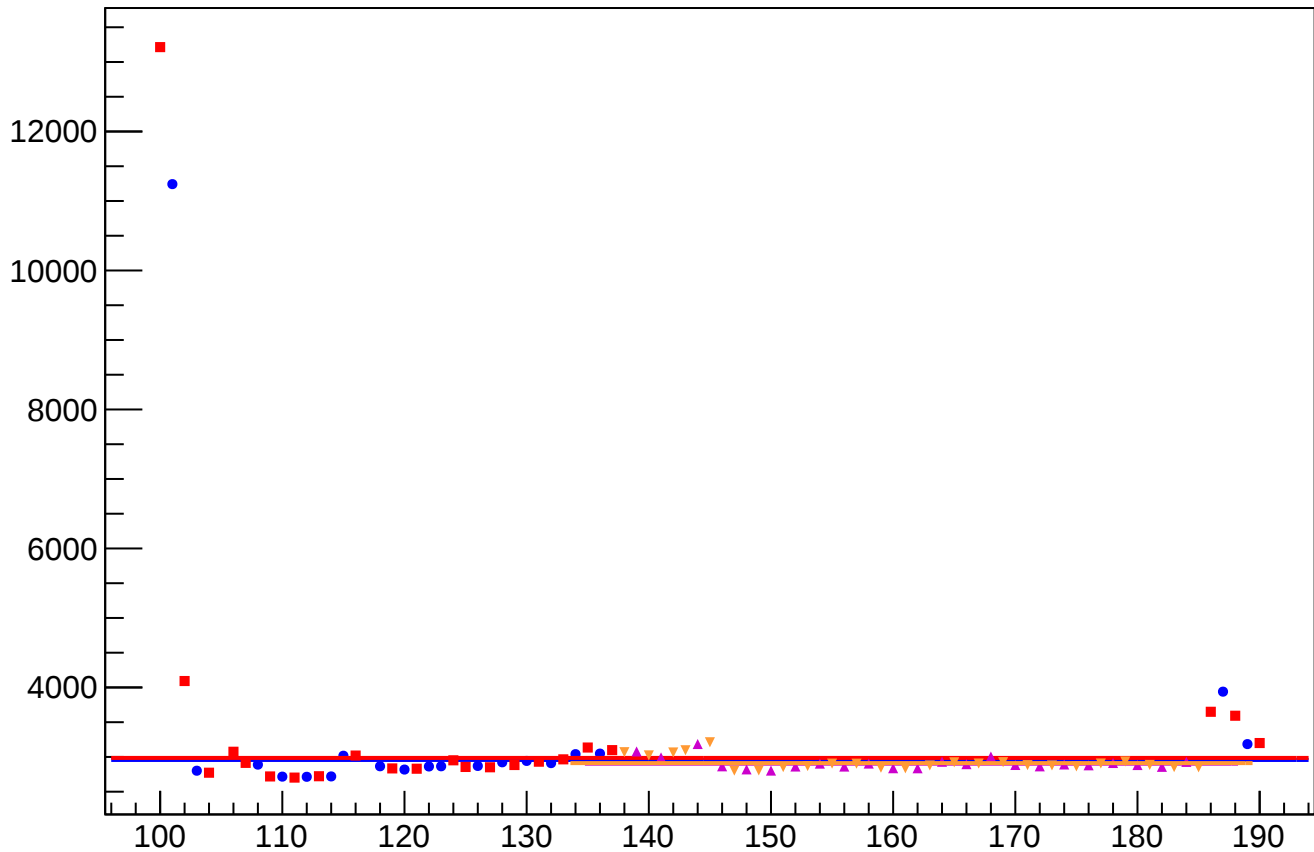
Right: 2224.555 $\pm$ 761.854 χ^2 /NDF: 29.6/40

In: 2432.593 $\pm$ 592.204 χ^2 /NDF:51.8/41

Out: 2873.362 $\pm$ 567.122 χ^2 /NDF:52.7/46

All: 2662.509 $\pm$ 409.596 χ^2 /NDF: 104.7/88

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2956.716 $\pm$ 0.798 χ^2 /NDF: 686311.4/18

Left Out: 2911.226 $\pm$ 0.480 χ^2 /NDF: 36644.3/24

Right Out: 2986.040 $\pm$ 0.730 χ^2 /NDF: 258726.8/21

Left In: 2903.411 $\pm$ 0.492 χ^2 /NDF: 28838.5/22

Left: 2907.416 $\pm$ 0.343 χ^2 /NDF: 65612.1/47

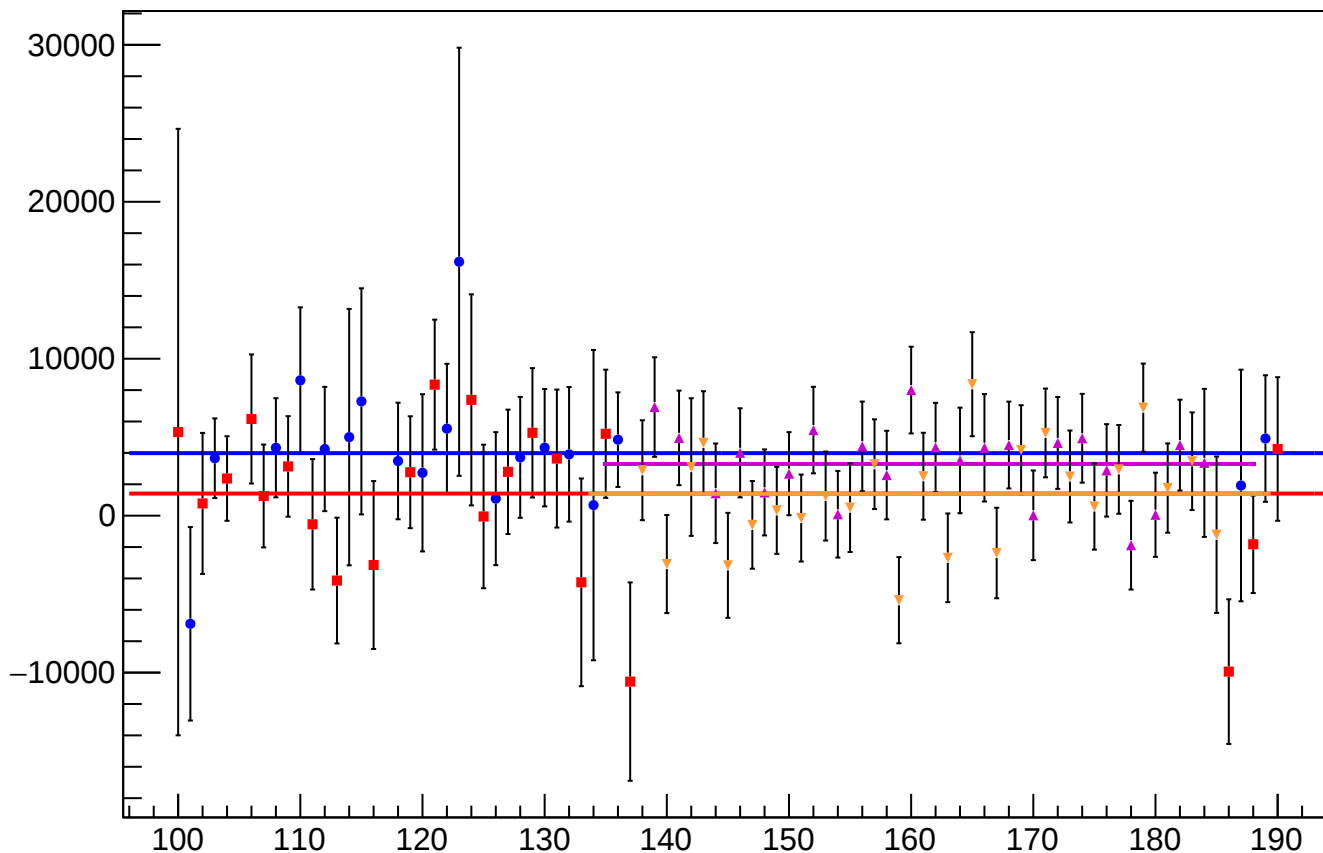
Right: 2972.665 $\pm$ 0.539 χ^2 /NDF: 945773.3/40

In: 2918.101 $\pm$ 0.419 χ^2 /NDF: 718385.0/41

Out: 2933.773 $\pm$ 0.401 χ^2 /NDF: 302699.3/46

All: 2926.276 $\pm$ 0.290 χ^2 /NDF: 1021815.0/88

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3984.075 $\pm$ 975.159 χ^2 /NDF: 6.2/18

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

Right Out: 1408.980 $\pm$ 883.127 χ^2 /NDF: 22.5/21

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

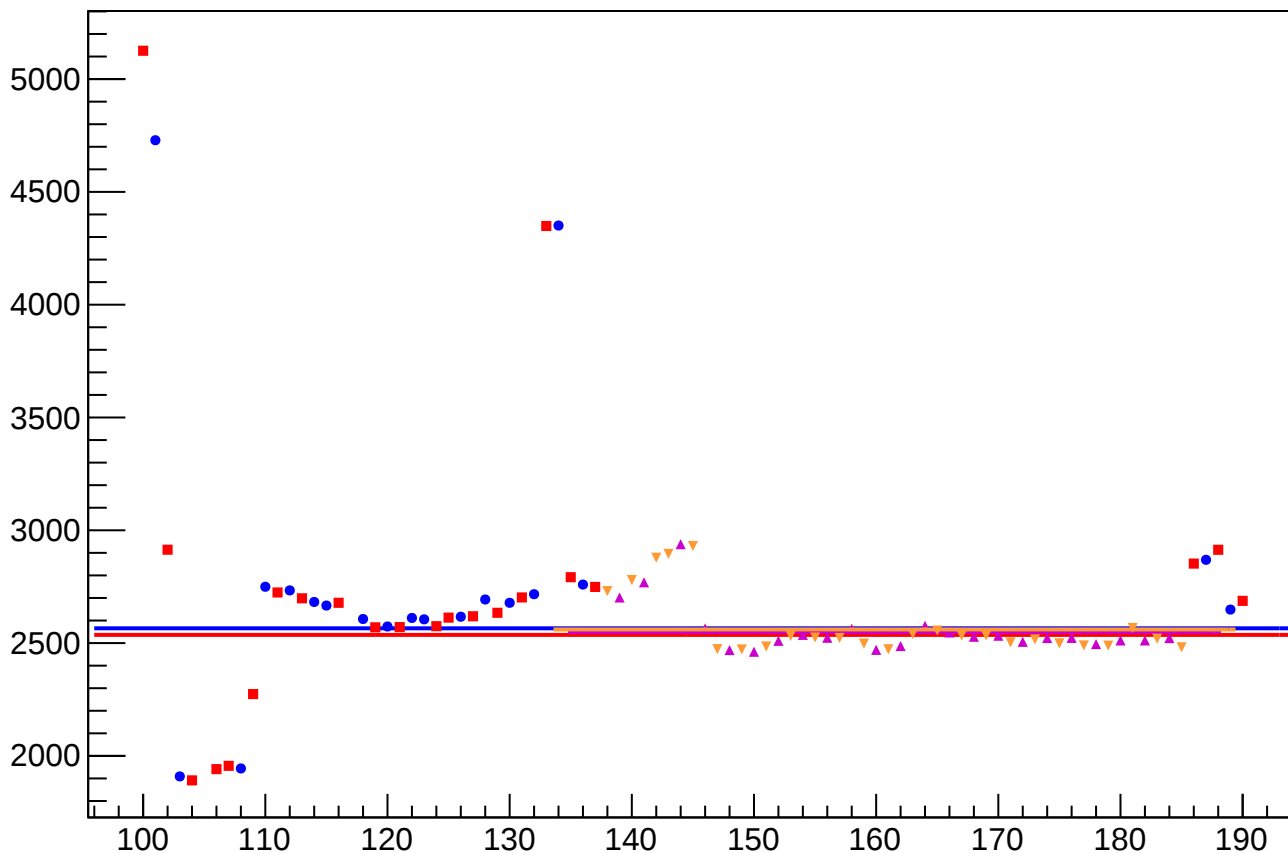
Right: 2569.308 $\pm$ 654.590 χ^2 /NDF: 32.5/40

In: 3489.060 $\pm$ 517.148 χ^2 /NDF:21.4/41

Out: 1396.135 $\pm$ 494.316 χ^2 /NDF:51.7/46

All: 2395.378 $\pm$ 357.334 χ^2 /NDF: 81.7/88

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2565.505 $\pm$ 0.690 χ^2 /NDF: 550240.7/18

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2536.374 $\pm$ 0.624 χ^2 /NDF: 498261.9/21

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

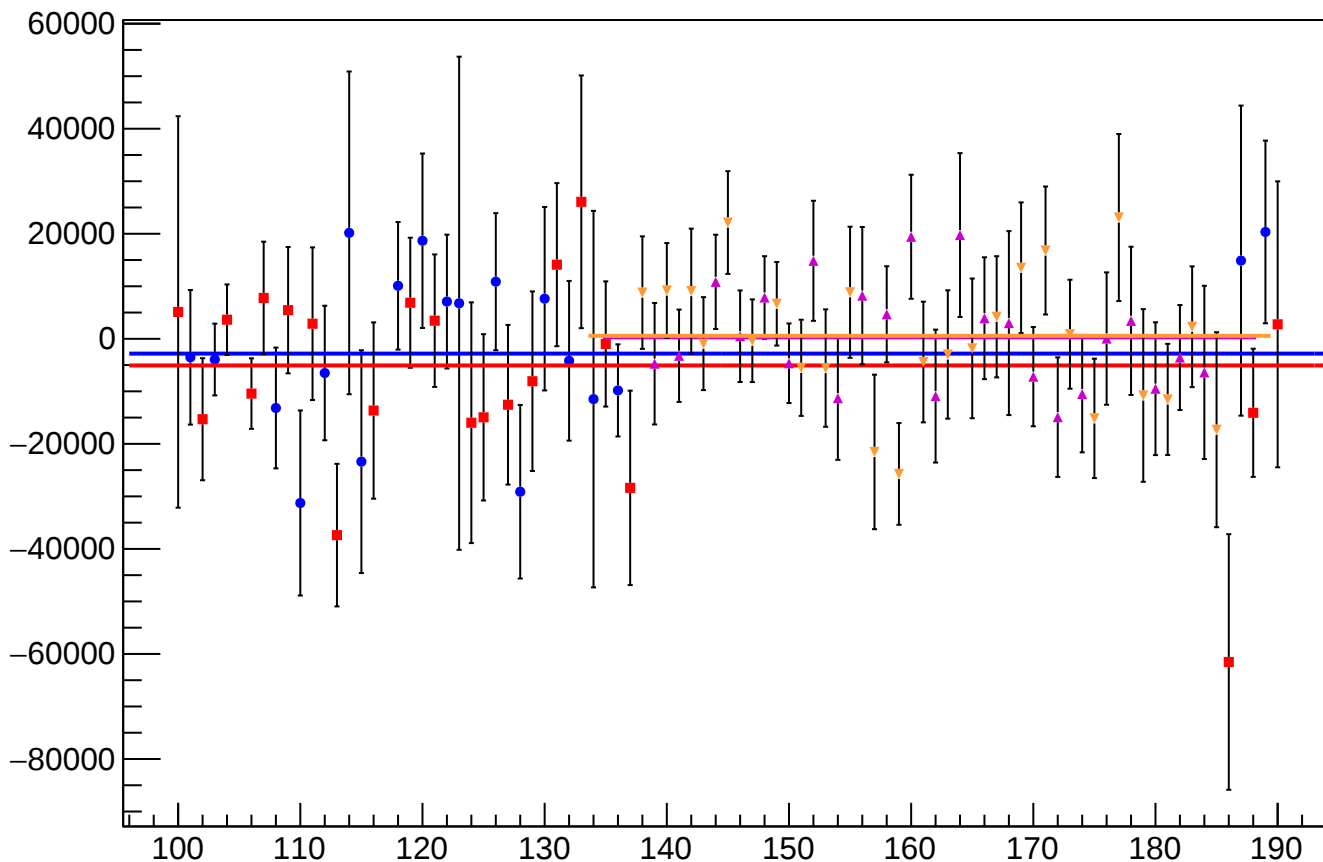
Right: 2549.500 $\pm$ 0.463 χ^2 /NDF: 1049483.1/40

In: 2553.548 $\pm$ 0.366 χ^2 /NDF: 605925.1/41

Out: 2552.963 $\pm$ 0.350 χ^2 /NDF: 586061.0/46

All: 2553.242 $\pm$ 0.253 χ^2 /NDF: 1191987.5/88

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2816.608+/-3161.348 χ^2/NDF : 15.3/18

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -5073.001+/-2732.934 χ^2/NDF : 24.8/21

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

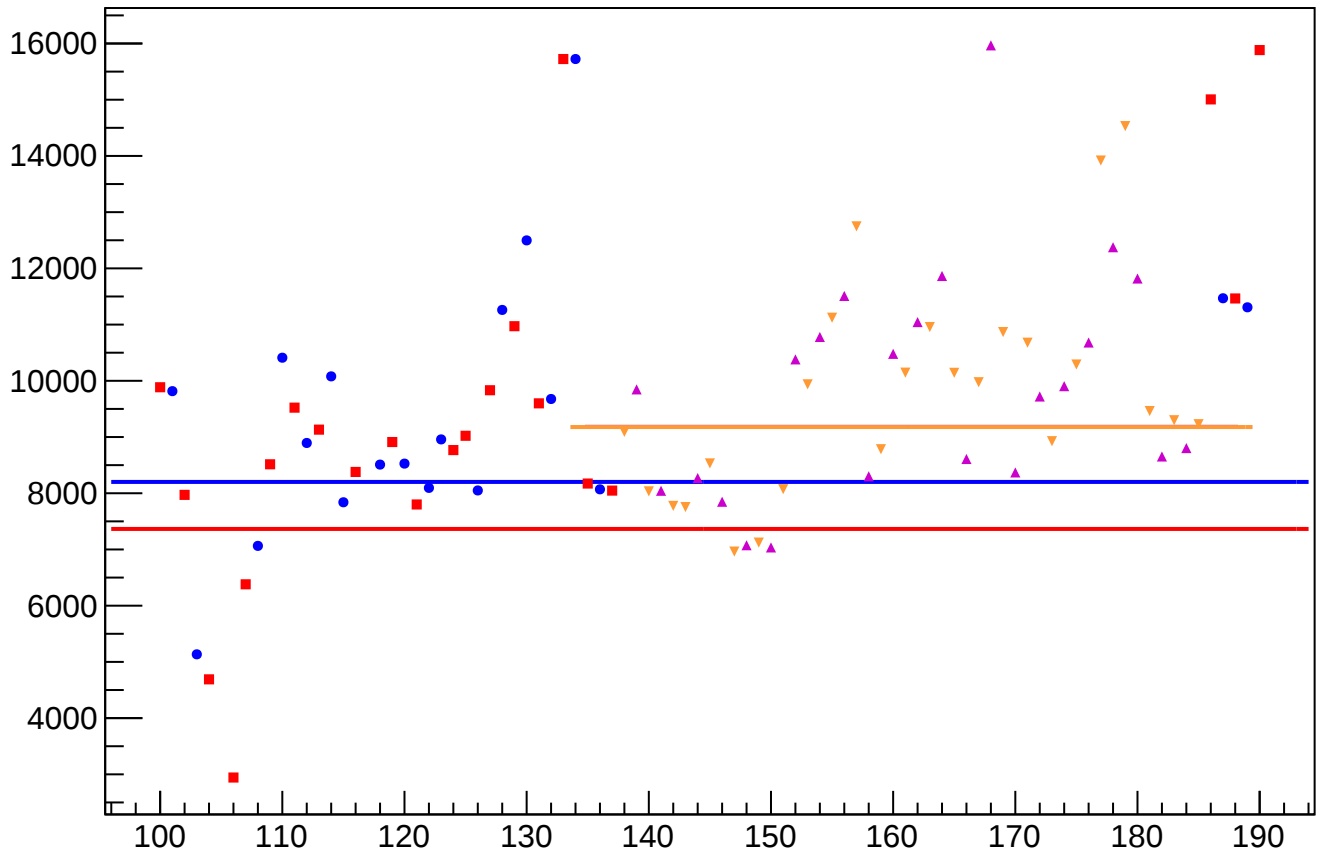
Right: -4107.944+/-2067.481 χ^2/NDF : 40.4/40

In: -760.020+/-1829.240 χ^2/NDF : 31.6/41

Out: -1628.213+/-1706.311 χ^2/NDF : 55.6/46

All: -1224.267+/-1247.741 χ^2/NDF : 87.4/88

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8201.491+/-2.235 χ^2/NDF : 887742.2/18

Left Out: 9177.688+/-1.545 χ^2/NDF : 1176195.8/24

Right Out: 7365.128+/-1.932 χ^2/NDF : 2438948.7/21

Left In: 9181.254+/-1.586 χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107 χ^2/NDF : 2412668.1/47

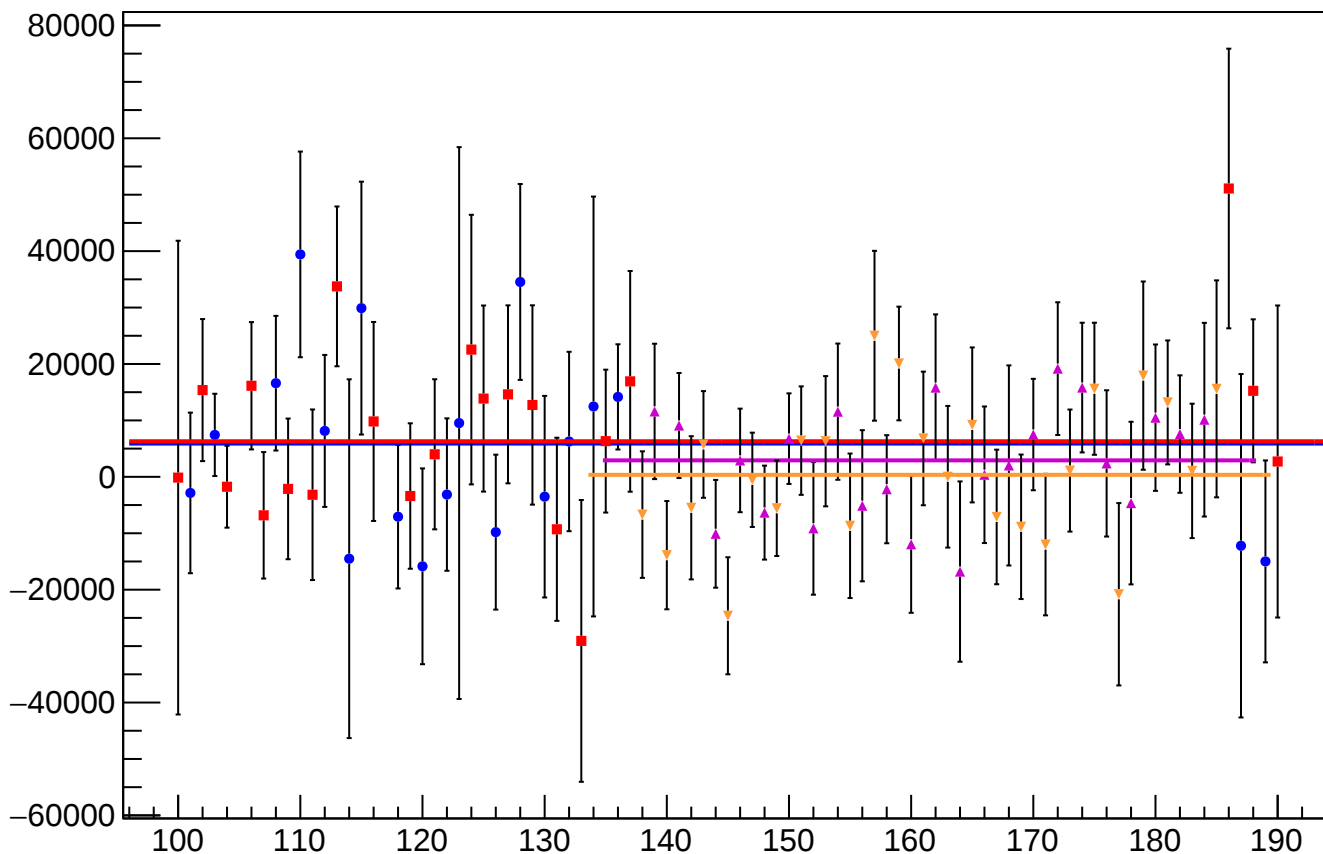
Right: 7722.839+/-1.462 χ^2/NDF : 3406803.4/40

In: 8853.221+/-1.293 χ^2/NDF : 2251995.1/41

Out: 8471.125+/-1.207 χ^2/NDF : 4151951.5/46

All: 8648.904+/-0.882 χ^2/NDF : 6450608.8/88

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5896.544+/-3336.773 χ^2/NDF : 16.1/18

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 6306.728+/-3036.306 χ^2/NDF : 17.2/21

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

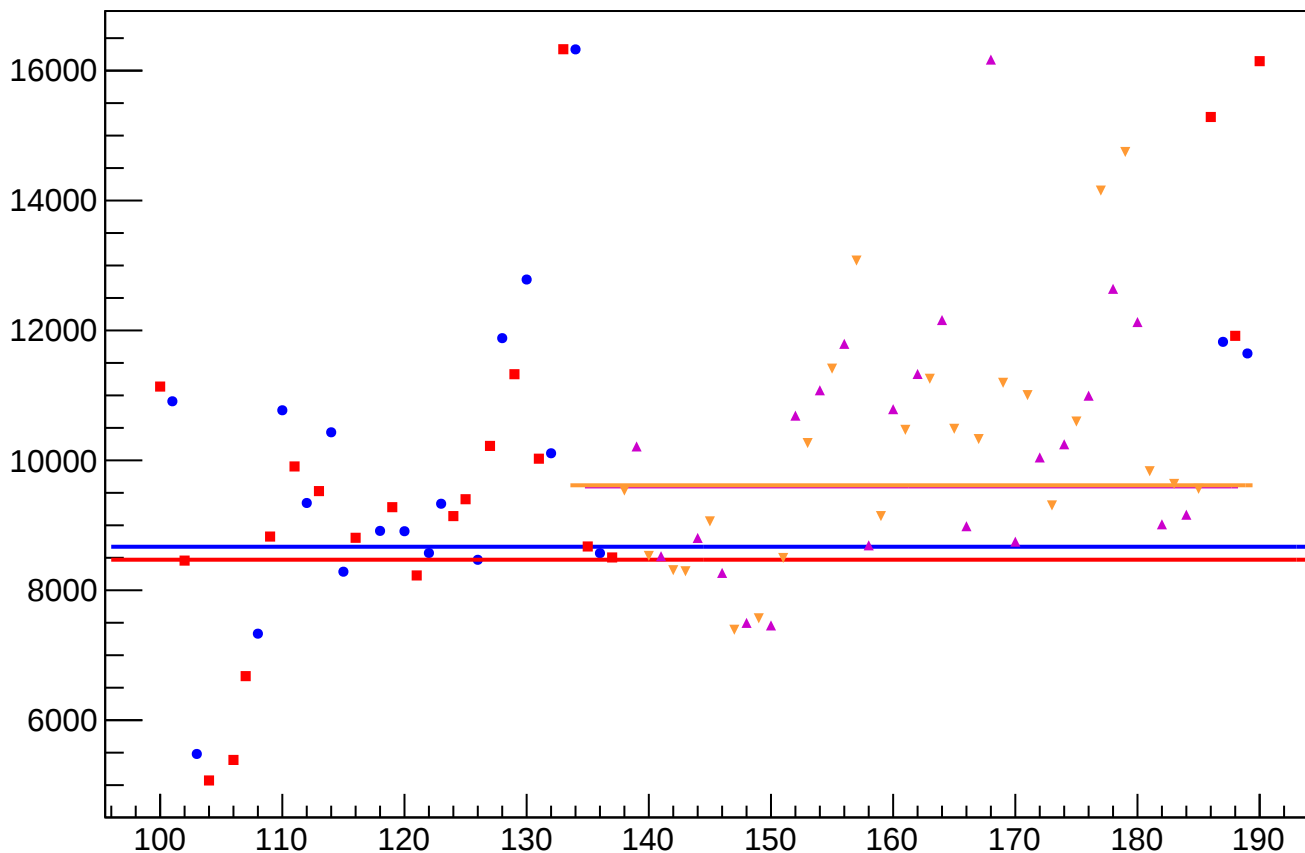
Right: 6120.931+/-2245.721 χ^2/NDF : 33.4/40

In: 3899.291+/-1915.008 χ^2/NDF : 31.6/41

Out: 2503.441+/-1824.061 χ^2/NDF : 45.9/46

All: 3167.434+/-1320.788 χ^2/NDF : 77.8/88

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8670.168+/-2.359 χ^2/NDF : 850434.8/18

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

Right Out: 8470.488+/-2.147 χ^2/NDF : 1443149.4/21

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

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

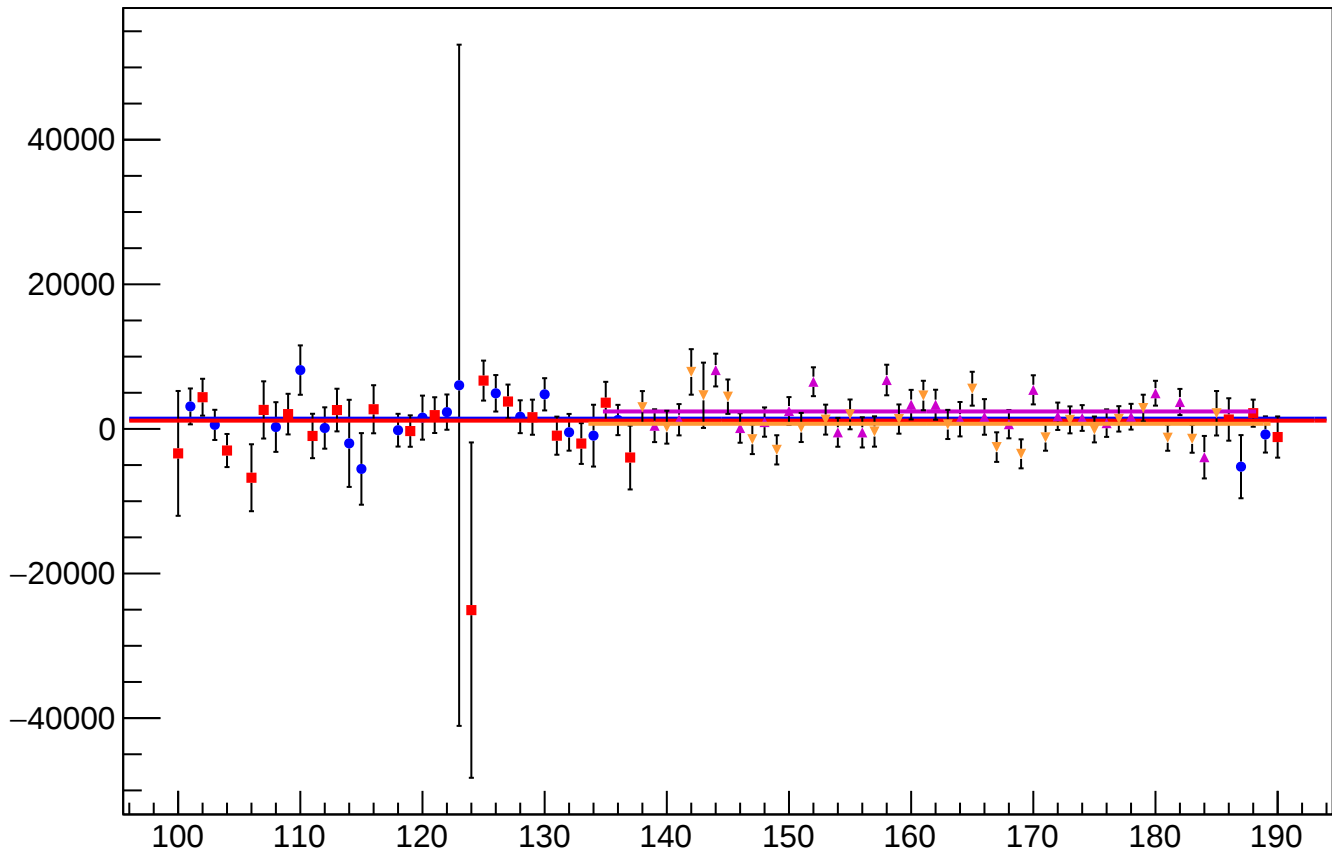
Right: 8560.932+/-1.588 χ^2/NDF : 2297502.3/40

In: 9292.753+/-1.354 χ^2/NDF : 2036429.4/41

Out: 9202.724+/-1.290 χ^2/NDF : 2636831.4/46

All: 9245.549+/-0.934 χ^2/NDF : 4675578.4/88

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1418.219+/-642.051 χ^2/NDF : 15.9/18

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1146.337+/-605.125 χ^2/NDF : 21.3/21

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

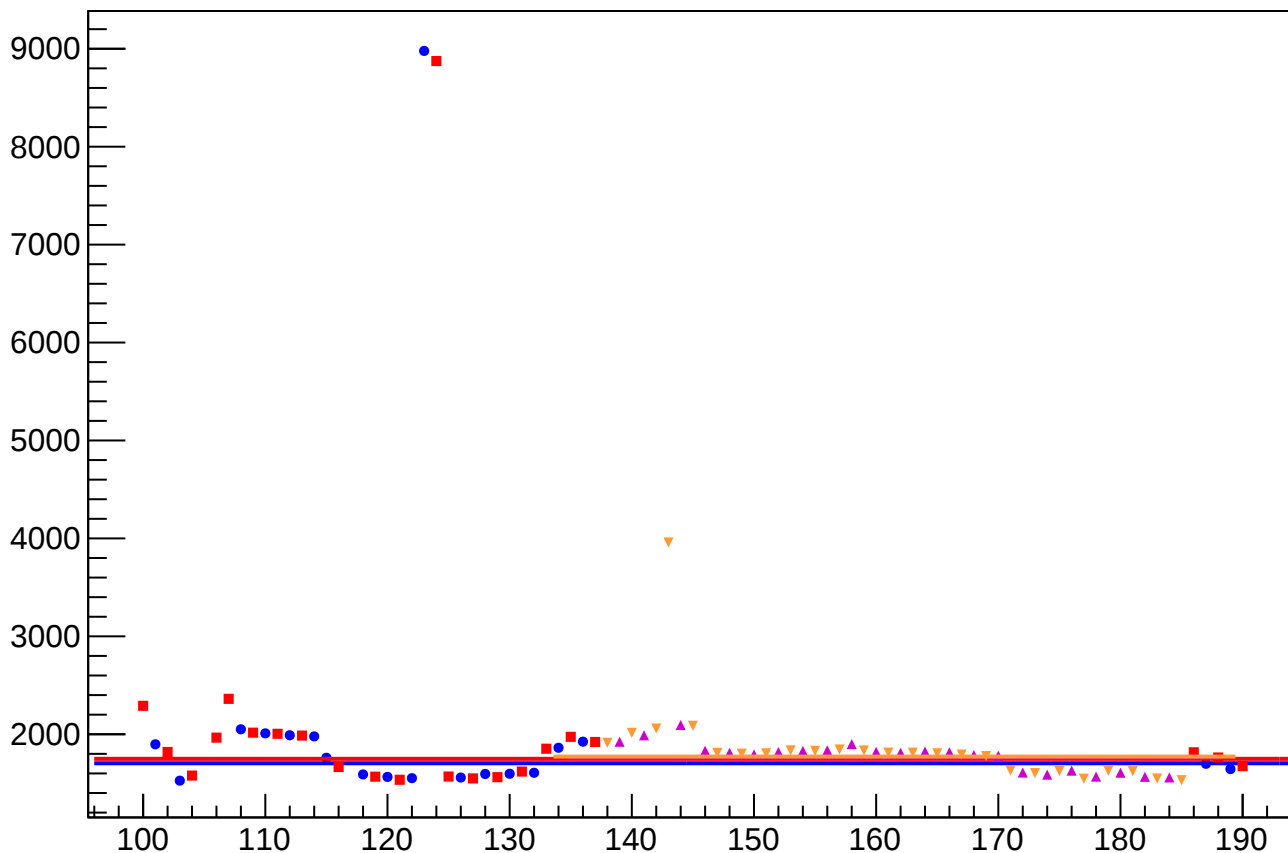
Right: 1274.235+/-440.364 χ^2/NDF : 37.3/40

In: 2112.655+/-353.505 χ^2/NDF : 51.6/41

Out: 850.475+/-343.577 χ^2/NDF : 56.5/46

All: 1463.593+/-246.381 χ^2/NDF : 114.6/88

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1703.787 $\pm$ 0.454 χ^2 /NDF: 196995.8/18

Left Out: 1772.046 $\pm$ 0.295 χ^2 /NDF: 702472.4/24

Right Out: 1749.161 $\pm$ 0.426 χ^2 /NDF: 398865.7/21

Left In: 1759.600 $\pm$ 0.299 χ^2 /NDF: 214891.5/22

Left: 1765.913 $\pm$ 0.210 χ^2 /NDF: 918240.2/47

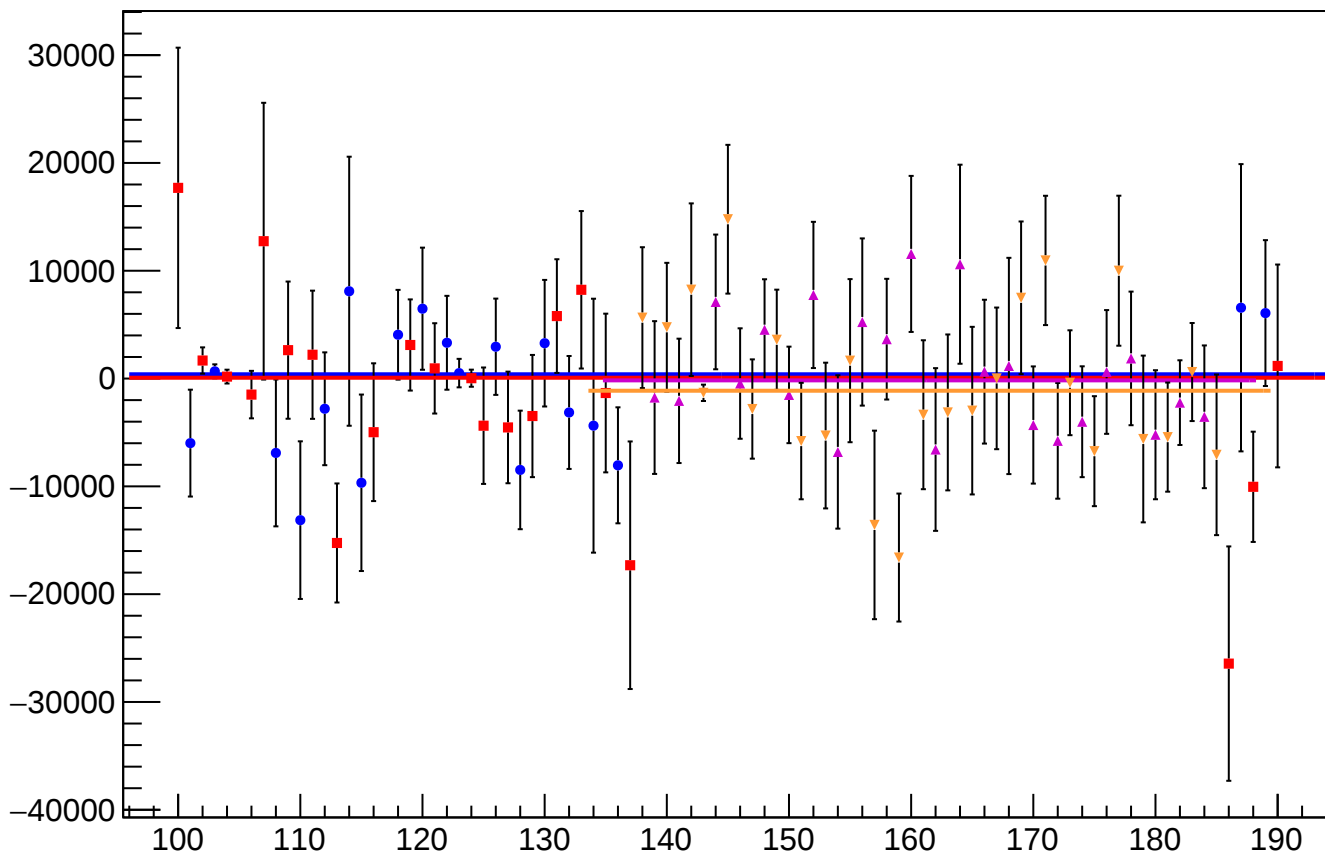
Right: 1727.899 $\pm$ 0.311 χ^2 /NDF: 601169.4/40

In: 1742.680 $\pm$ 0.250 χ^2 /NDF: 422418.9/41

Out: 1764.632 $\pm$ 0.243 χ^2 /NDF: 1103285.9/46

All: 1753.982 $\pm$ 0.174 χ^2 /NDF: 1529675.2/88

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 397.009 ± 538.506 $\chi^2/\text{NDF}: 18.2/18$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: 75.585 ± 431.327 $\chi^2/\text{NDF}: 30.7/21$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

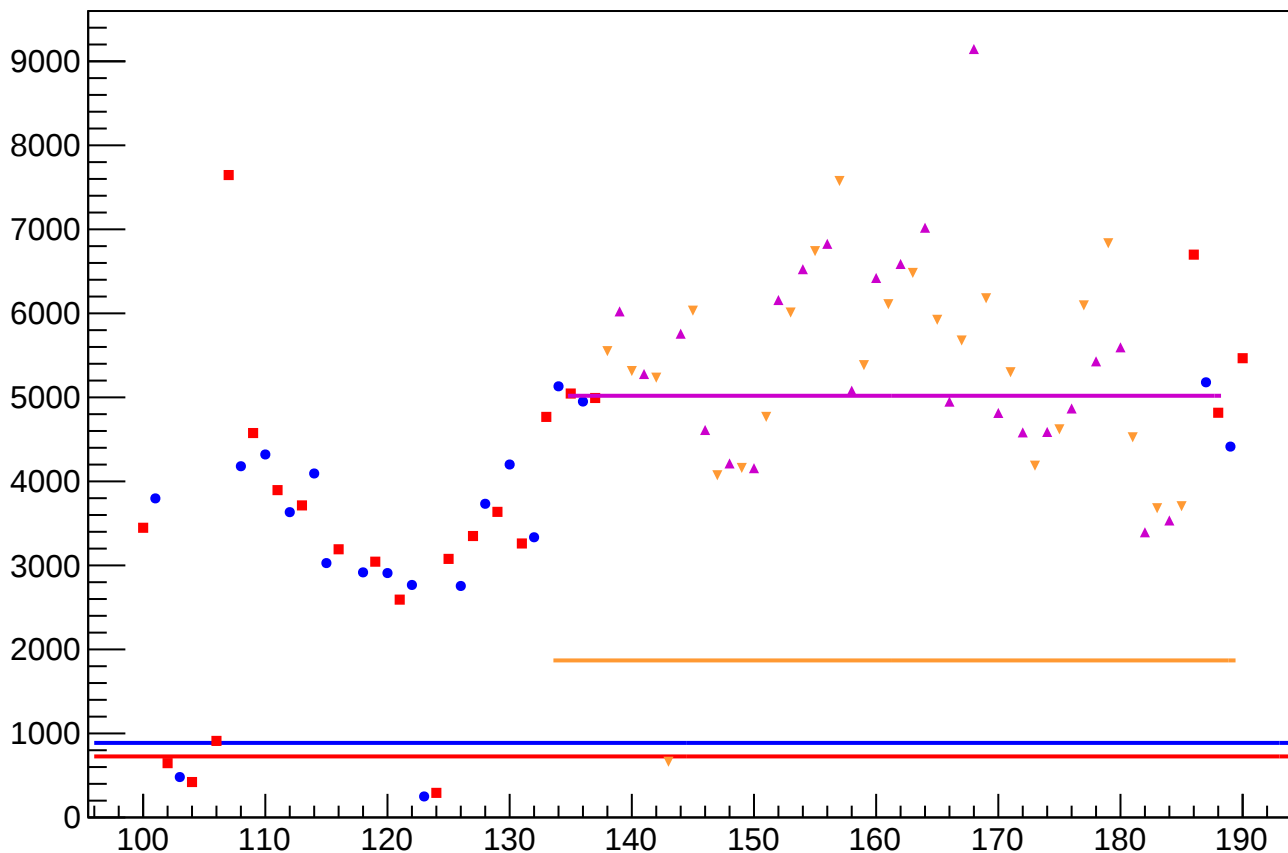
Right: 201.204 ± 336.650 $\chi^2/\text{NDF}: 49.2/40$

In: 306.398 ± 493.455 $\chi^2/\text{NDF}: 32.6/41$

Out: -294.821 ± 358.990 $\chi^2/\text{NDF}: 64.6/46$

All: -86.746 ± 290.296 $\chi^2/\text{NDF}: 98.2/88$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 887.379+/-0.381 χ^2/NDF : 8883356.5/18

Left Out: 1868.983+/-0.458 χ^2/NDF : 19852416.6/24

Right Out: 726.362+/-0.305 χ^2/NDF : 10773888.7/21

Left In: 5019.114+/-0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

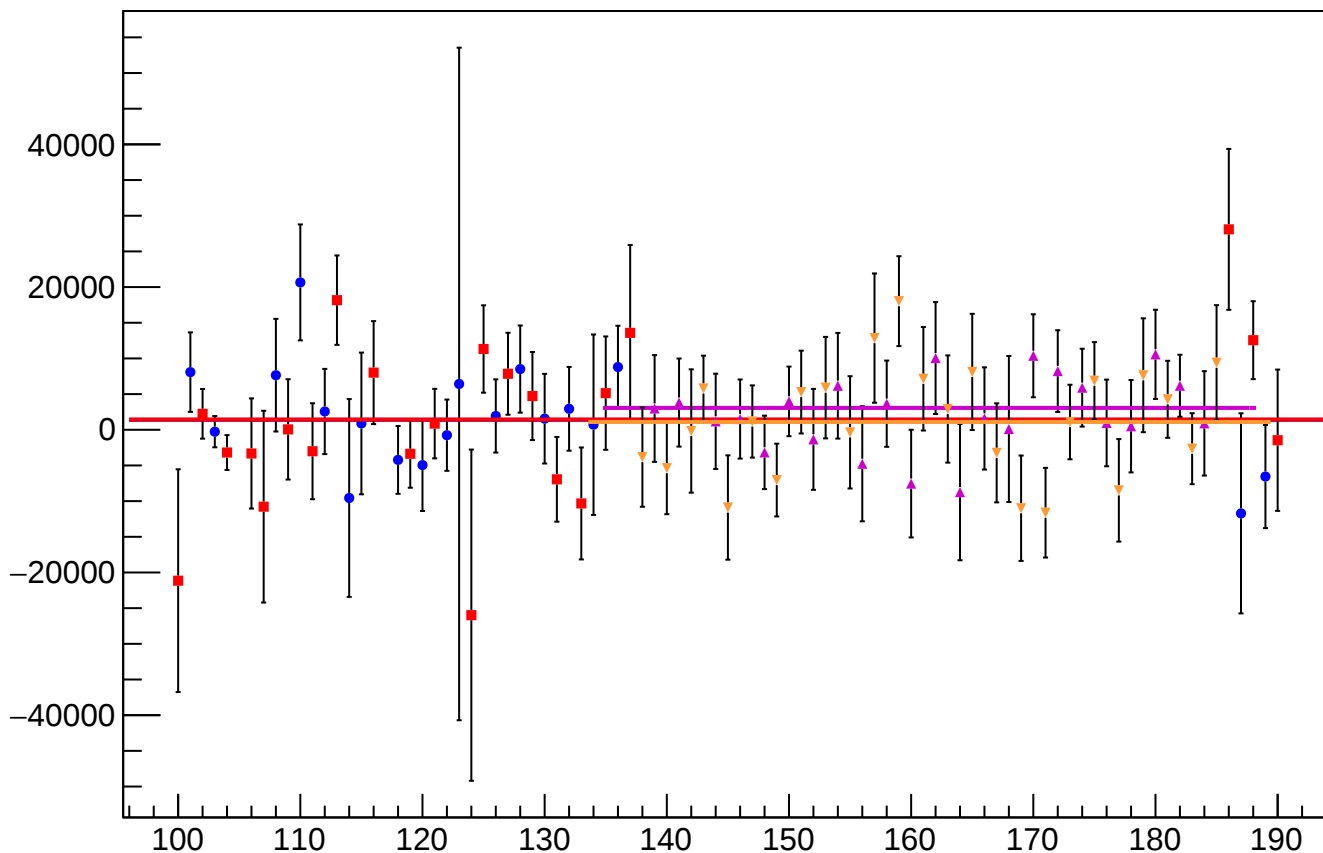
Right: 789.291+/-0.238 χ^2/NDF : 19766172.1/40

In: 1549.773+/-0.349 χ^2/NDF : 29327873.7/41

Out: 1077.480+/-0.254 χ^2/NDF : 34939226.7/46

All: 1240.935+/-0.205 χ^2/NDF : 65465156.2/8

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1400.957 $\pm$ 1286.690 χ^2 /NDF: 16.7/18

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

Right Out: 1431.127 $\pm$ 1236.550 χ^2 /NDF: 37.2/21

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

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

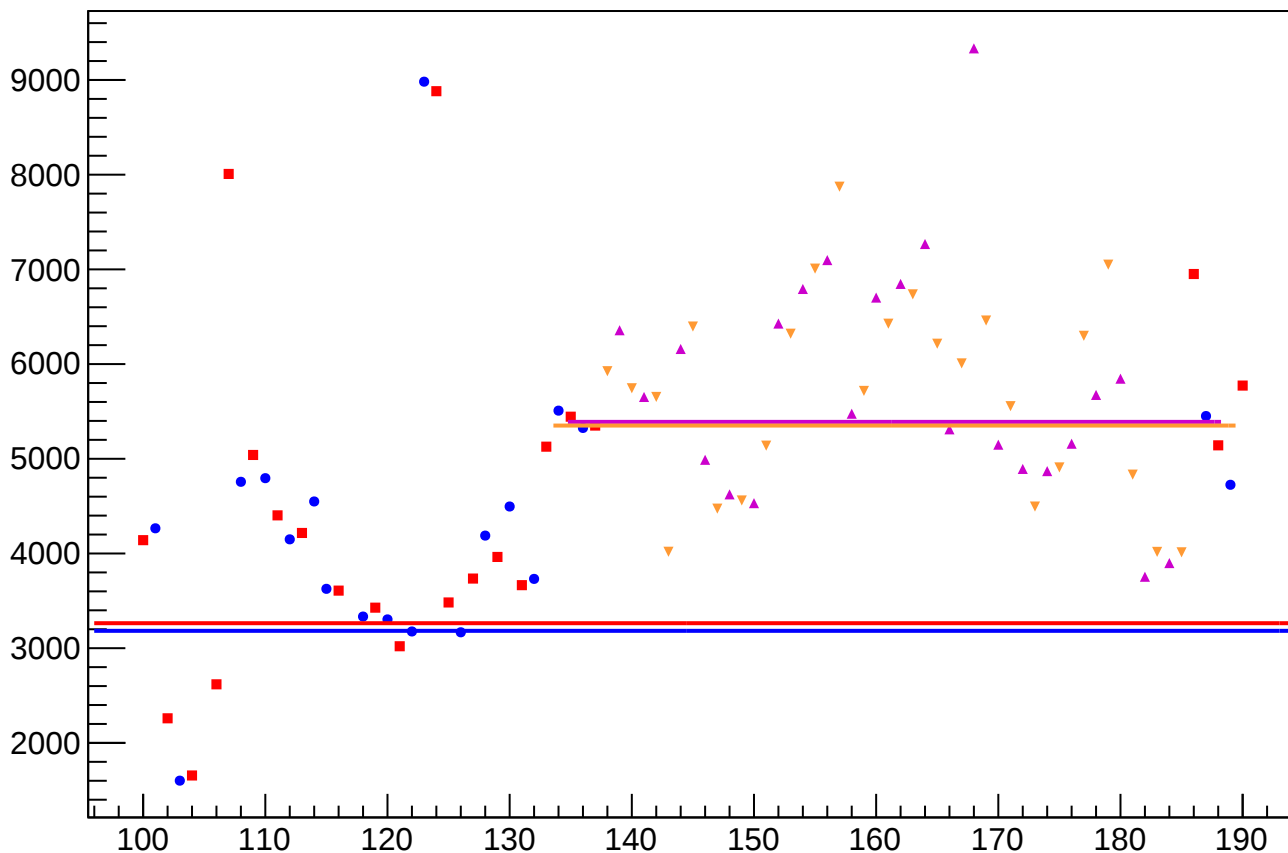
Right: 1416.641 $\pm$ 891.572 χ^2 /NDF: 53.8/40

In: 2212.759 $\pm$ 920.756 χ^2 /NDF:30.1/41

Out: 1267.628 $\pm$ 887.017 χ^2 /NDF:69.2/46

All: 1722.560 $\pm$ 638.811 χ^2 /NDF: 99.8/88

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3183.326 $\pm$ 0.910 χ^2 /NDF: 2031606.2/18

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3263.919 $\pm$ 0.863 χ^2 /NDF: 2630657.8/21

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

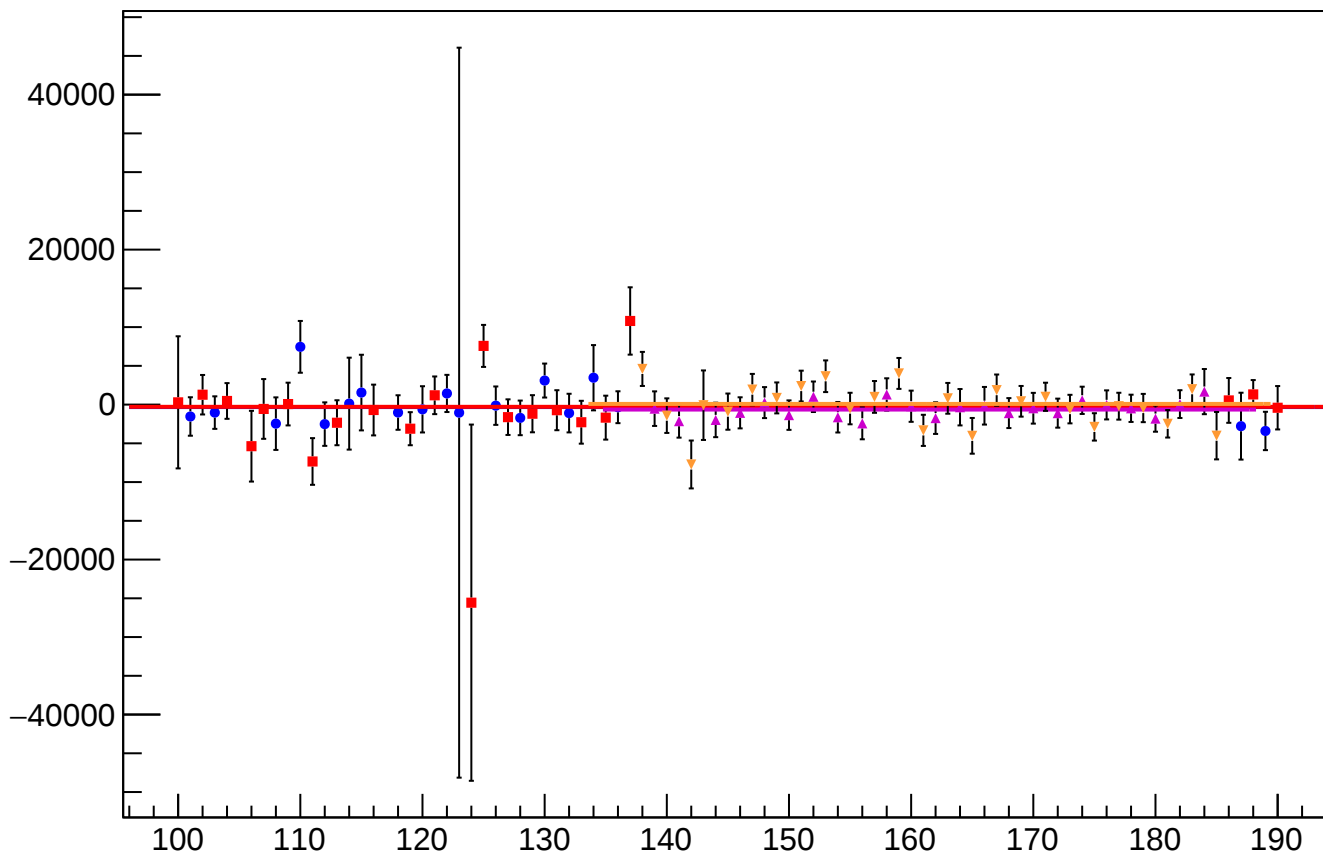
Right: 3225.766 $\pm$ 0.626 χ^2 /NDF: 4666396.1/40

In: 4259.856 $\pm$ 0.651 χ^2 /NDF:6210906.2/41

Out: 4262.904 $\pm$ 0.623 χ^2 /NDF:6673612.9/46

All: 4261.447 $\pm$ 0.450 χ^2 /NDF: 12884530.6/86

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -317.758 ± 633.332 χ^2/NDF : 13.2/18

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -287.703 ± 596.308 χ^2/NDF : 28.1/21

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

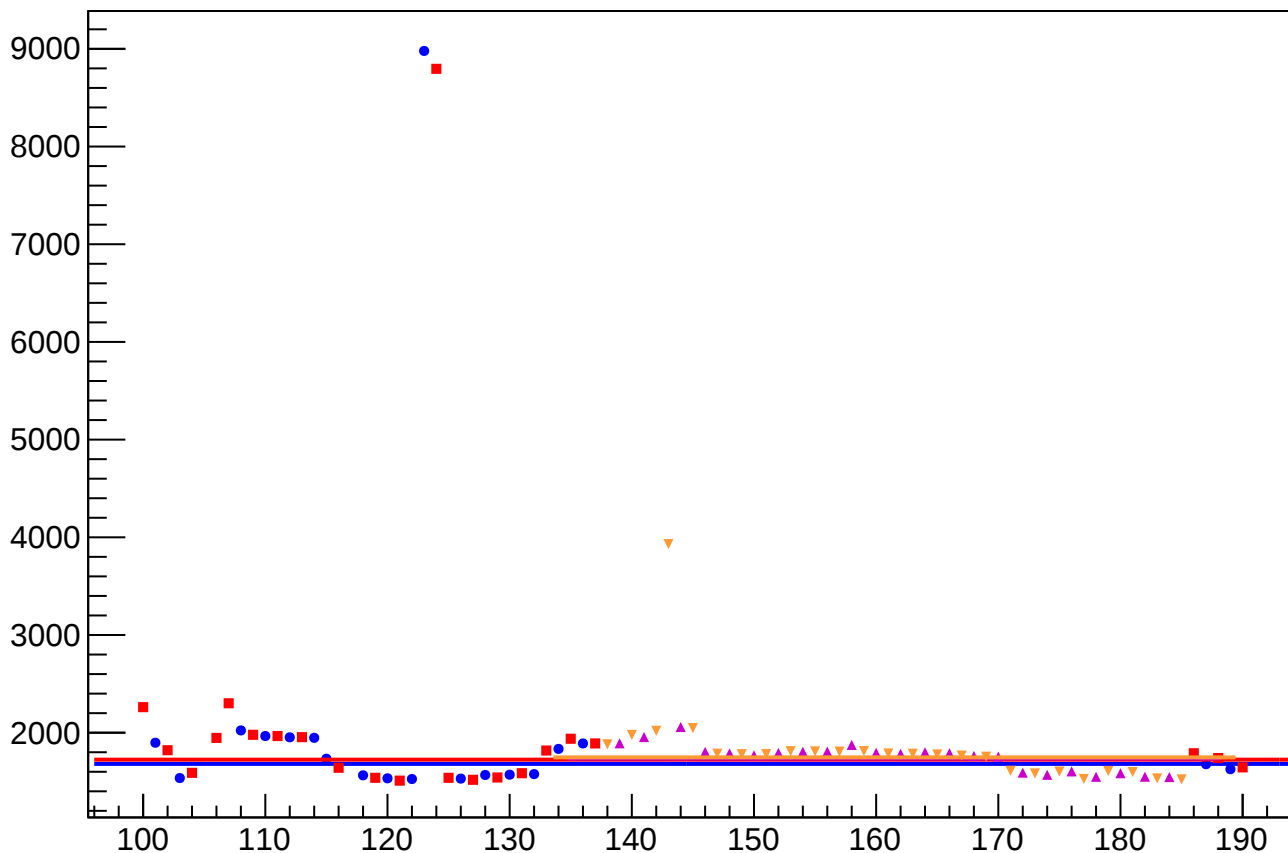
Right: -301.826 ± 434.152 χ^2/NDF : 41.3/40

In: -542.502 ± 348.660 χ^2/NDF : 19.5/41

Out: -34.419 ± 338.702 χ^2/NDF : 64.4/46

All: -281.101 ± 242.943 χ^2/NDF : 85.0/88

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1680.719+/-0.448 χ^2/NDF : 195050.4/18

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1724.101+/-0.420 χ^2/NDF : 395337.3/21

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

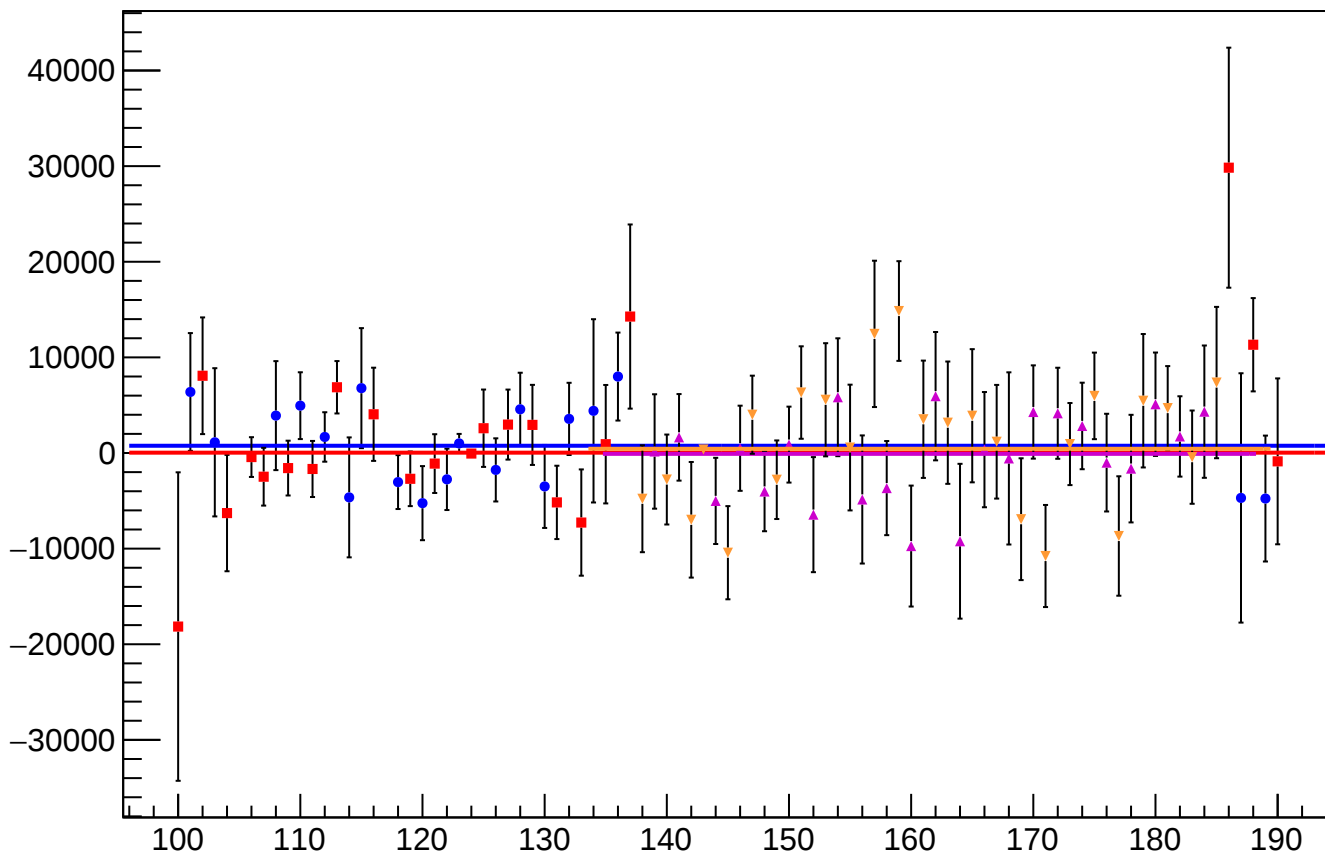
Right: 1703.792+/-0.306 χ^2/NDF : 595378.5/40

In: 1718.926+/-0.247 χ^2/NDF : 412260.7/41

Out: 1739.793+/-0.239 χ^2/NDF : 1095593.5/46

All: 1729.674+/-0.172 χ^2/NDF : 1511544.2/88

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 758.540+/-701.778 χ^2/NDF : 16.4/18

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 35.626+/-355.909 χ^2/NDF : 31.8/21

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

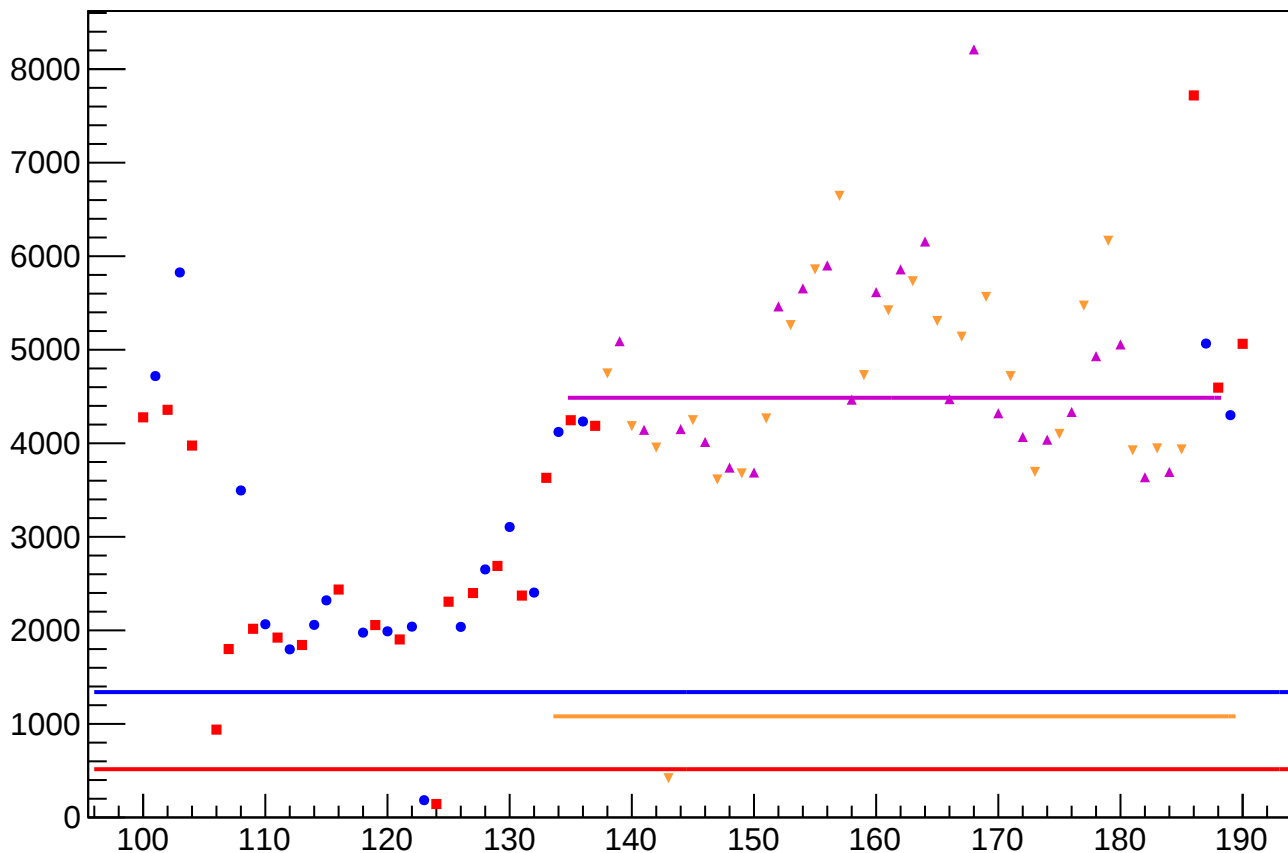
Right: 183.523+/-317.421 χ^2/NDF : 49.1/40

In: 511.867+/-590.823 χ^2/NDF :30.3/41

Out: 196.278+/-276.798 χ^2/NDF :66.2/46

All: 253.079+/-250.654 χ^2/NDF : 96.8/88

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1340.150+/-0.496

χ^2/NDF : 7085479.1/18

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 515.840+/-0.252

χ^2/NDF : 12743207.3/21

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289

χ^2/NDF : 42294704.7/47

Right: 684.481+/-0.224

χ^2/NDF : 22023537.6/40

In: 2256.436+/-0.418

χ^2/NDF : 19974943.9/41

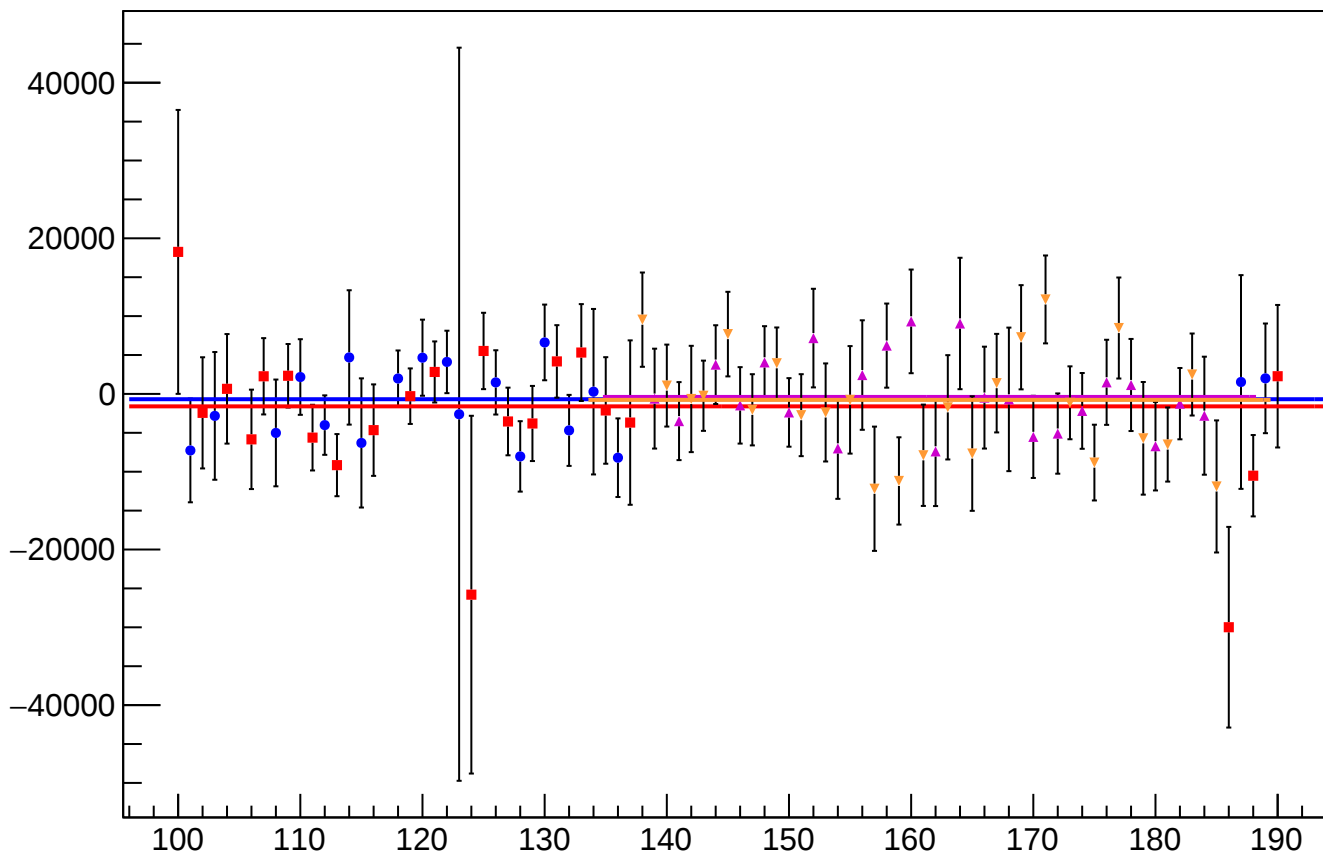
Out: 739.164+/-0.196

χ^2/NDF : 39192238.0/46

All: 1012.249+/-0.177

χ^2/NDF : 69983135.2/8

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -681.463+/-1240.529 χ^2/NDF : 14.9/18

Left Out: -766.008+/-1147.372 χ^2/NDF : 29.9/24

Right Out: -1599.895+/-1150.311 χ^2/NDF : 23.8/21

Left In: -388.944+/-1186.300 χ^2/NDF : 14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

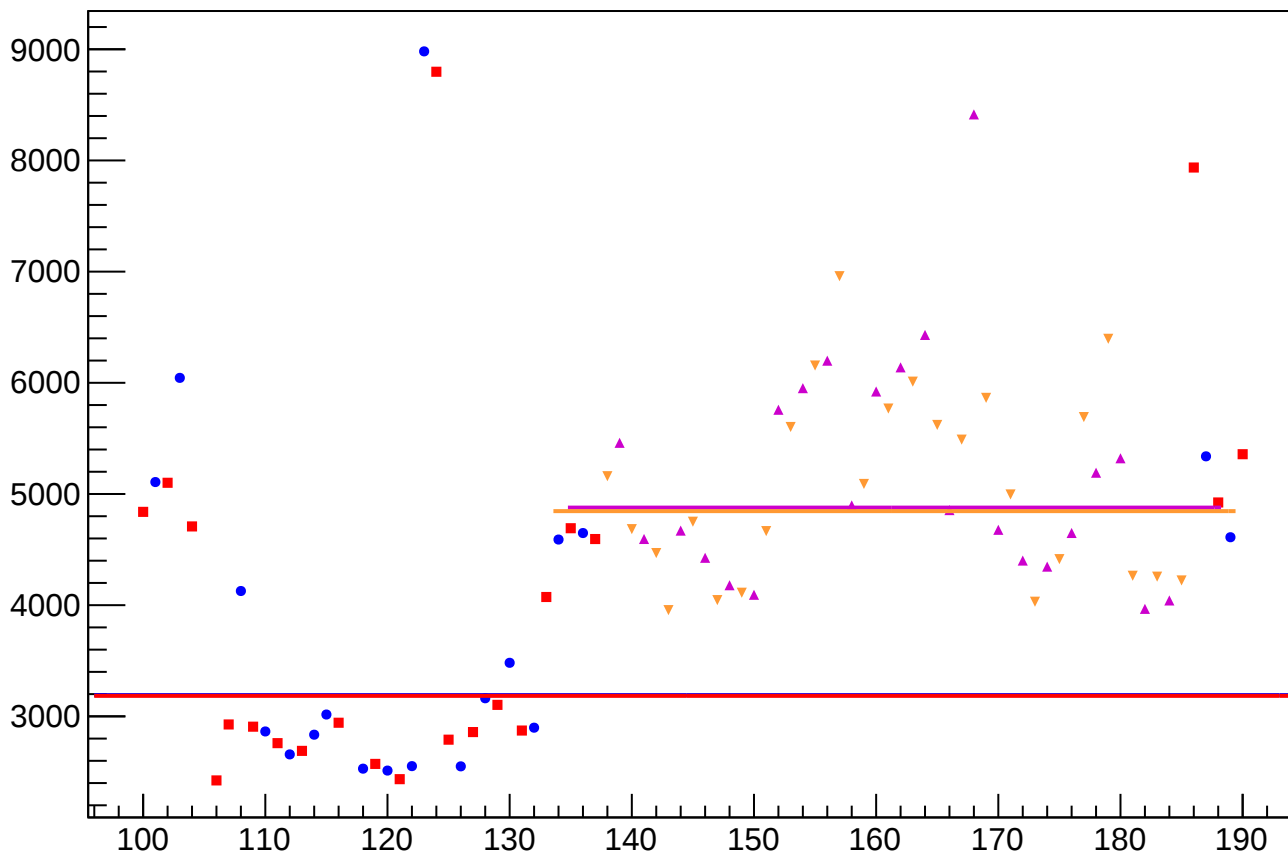
Right: -1175.287+/-843.486 χ^2/NDF : 39.0/40

In: -528.670+/-857.371 χ^2/NDF : 29.1/41

Out: -1181.884+/-812.352 χ^2/NDF : 54.0/46

All: -872.877+/-589.693 χ^2/NDF : 83.4/88

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3191.100+/-0.877 χ^2/NDF : 1077929.6/18

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3184.547+/-0.804 χ^2/NDF : 1435560.4/21

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

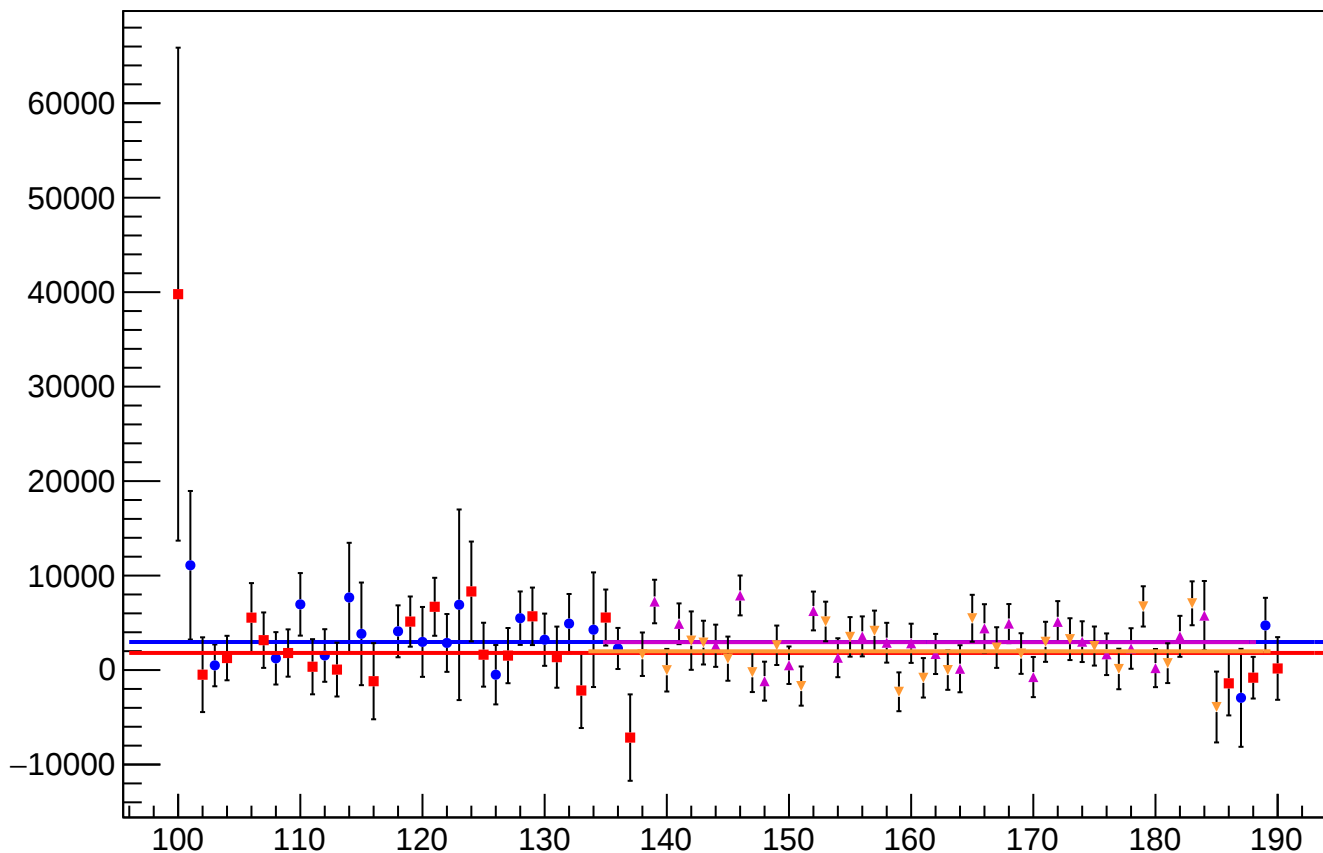
Right: 3187.539+/-0.593 χ^2/NDF : 2513520.3/40

In: 4071.938+/-0.606 χ^2/NDF : 3967031.7/41

Out: 4007.572+/-0.571 χ^2/NDF : 4460186.5/46

All: 4037.833+/-0.416 χ^2/NDF : 8433191.0/88

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2969.228+/-743.698 χ^2/NDF : 9.6/18

Left Out: 1985.469+/-443.190 χ^2/NDF :32.4/24

Right Out: 1811.893+/-674.433 χ^2/NDF : 21.2/21

Left In: 2955.900+/-454.551 χ^2/NDF :28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

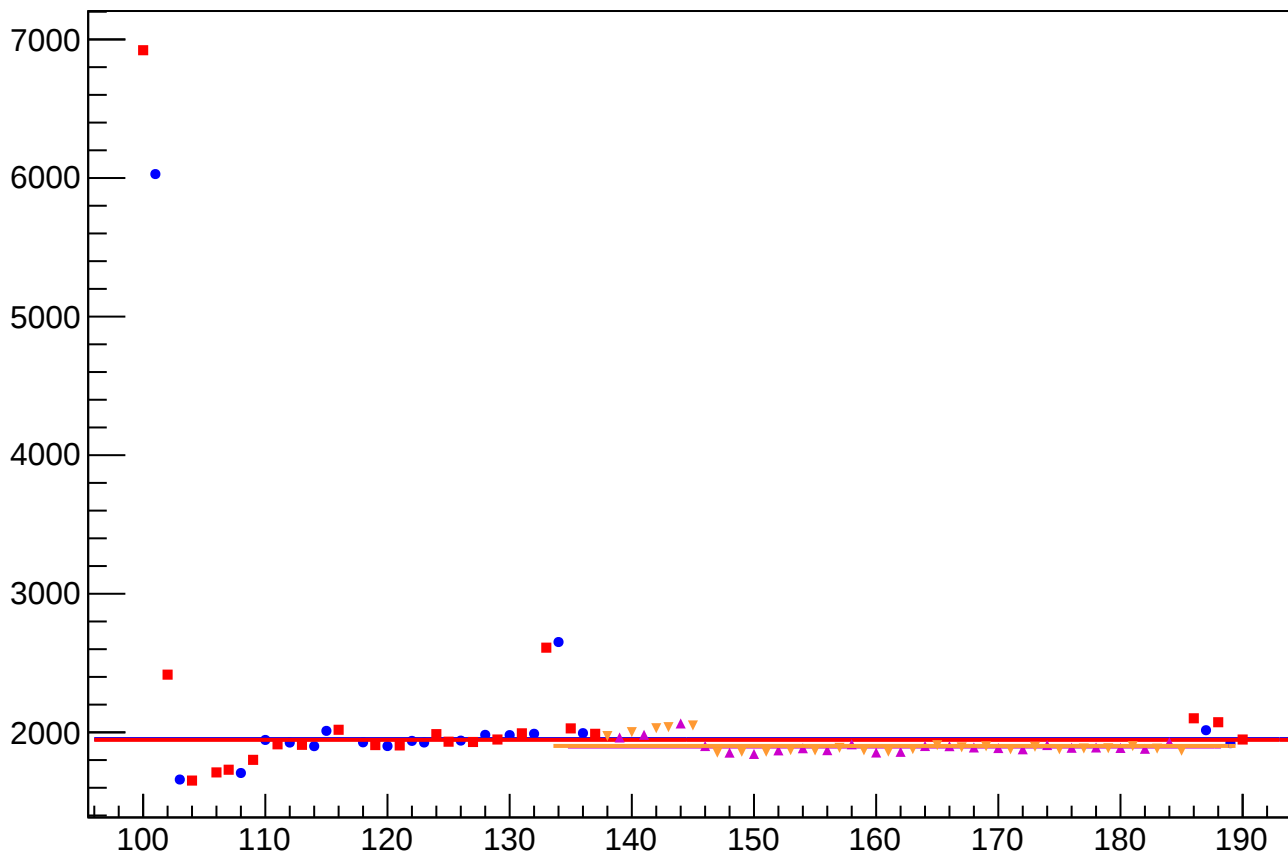
Right: 2334.168+/-499.593 χ^2/NDF : 32.2/40

In: 2959.525+/-387.844 χ^2/NDF :38.1/41

Out: 1933.121+/-370.378 χ^2/NDF :53.7/46

All: 2422.692+/-267.859 χ^2/NDF : 95.4/88

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1951.455+/-0.526 χ^2/NDF : 617898.9/18

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1945.847+/-0.476 χ^2/NDF : 230076.4/21

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

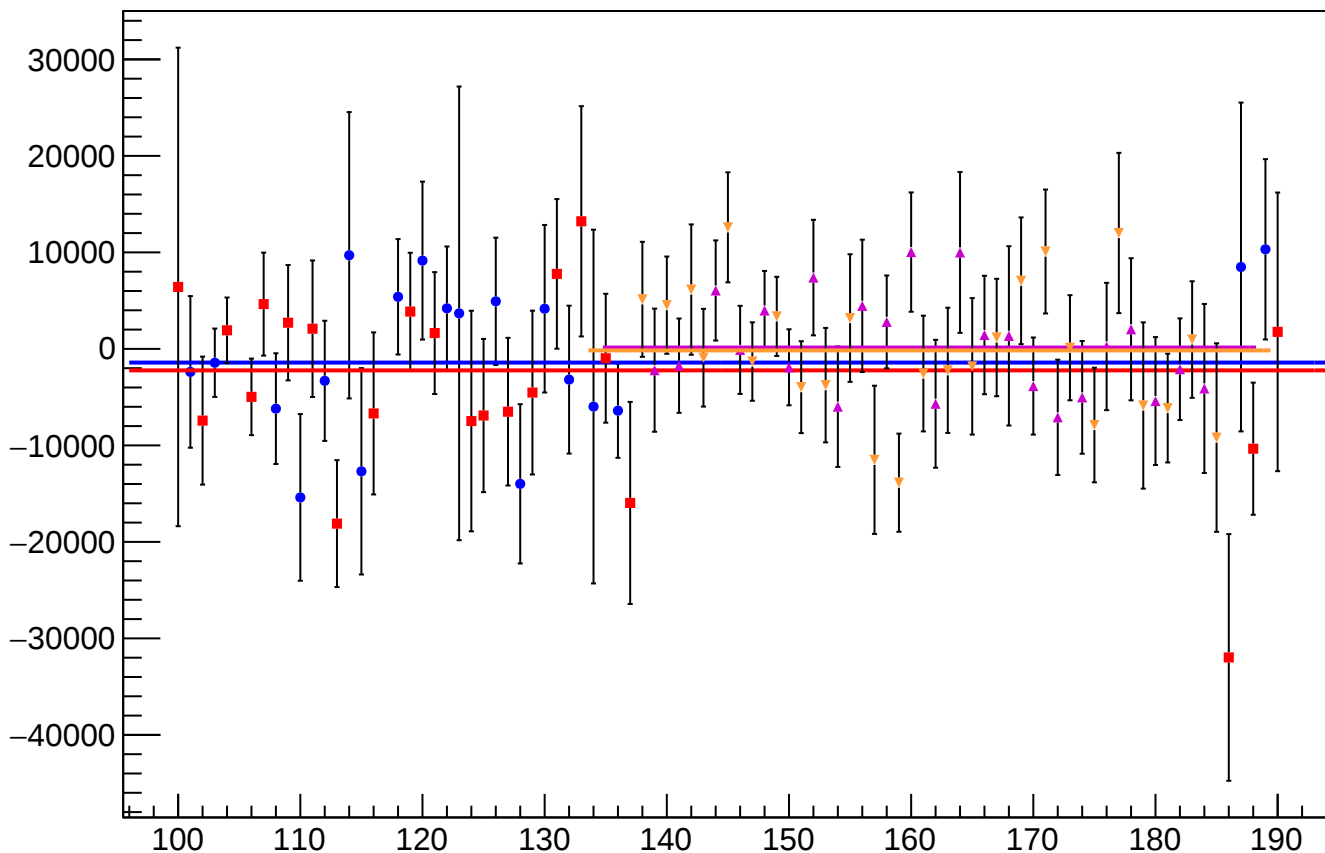
Right: 1948.373+/-0.353 χ^2/NDF : 848037.9/40

In: 1912.142+/-0.274 χ^2/NDF : 646755.5/41

Out: 1915.179+/-0.262 χ^2/NDF : 266474.8/46

All: 1913.731+/-0.189 χ^2/NDF : 913294.5/88

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1418.018+/-1631.646 χ^2/NDF : 15.6/18

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -2226.873+/-1430.015 χ^2/NDF : 25.9/21

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

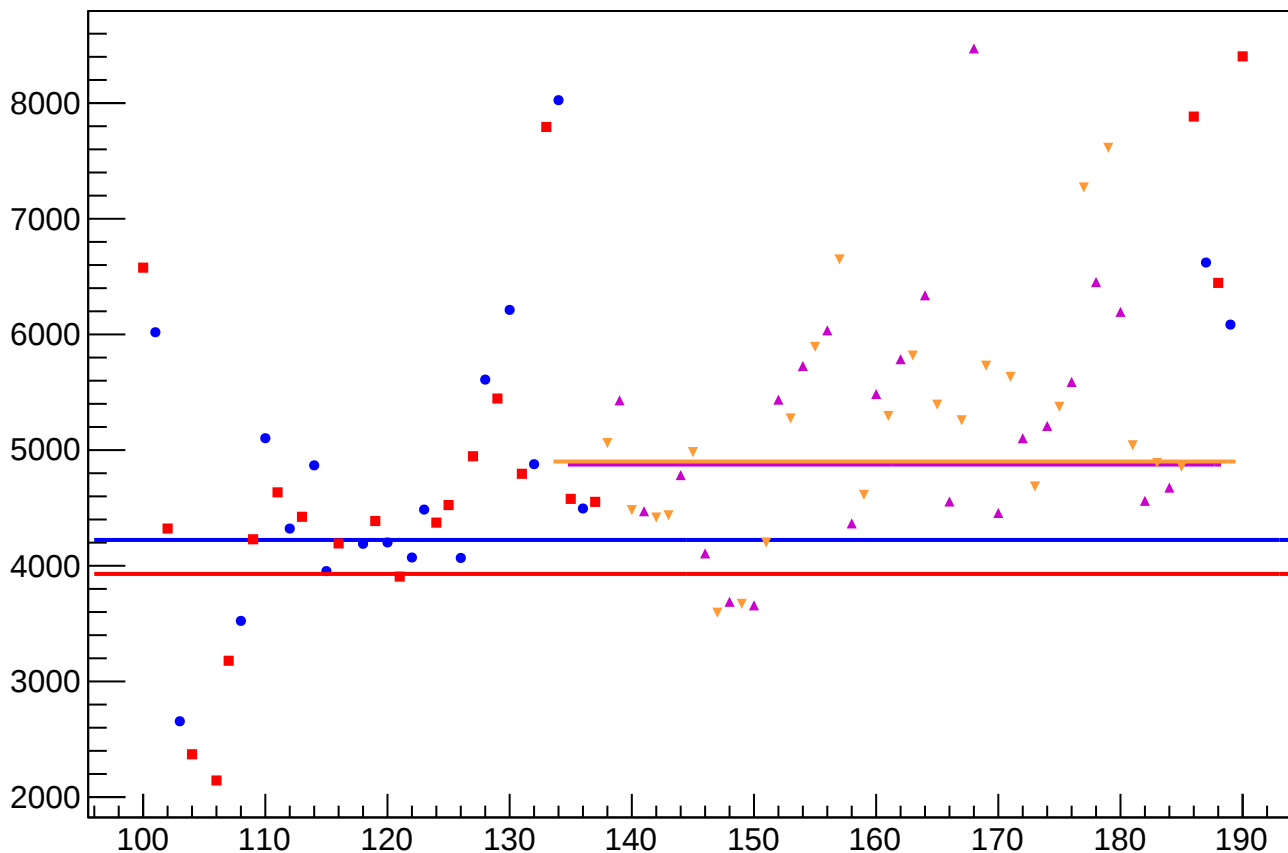
Right: -1875.484+/-1075.436 χ^2/NDF : 41.6/40

In: -402.159+/-961.925 χ^2/NDF : 30.9/41

Out: -983.776+/-903.603 χ^2/NDF : 56.6/46

All: -711.133+/-658.597 χ^2/NDF : 87.7/88

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4223.310+/-1.154 χ^2/NDF : 942064.6/18

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 3929.483+/-1.011 χ^2/NDF : 1973603.6/21

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

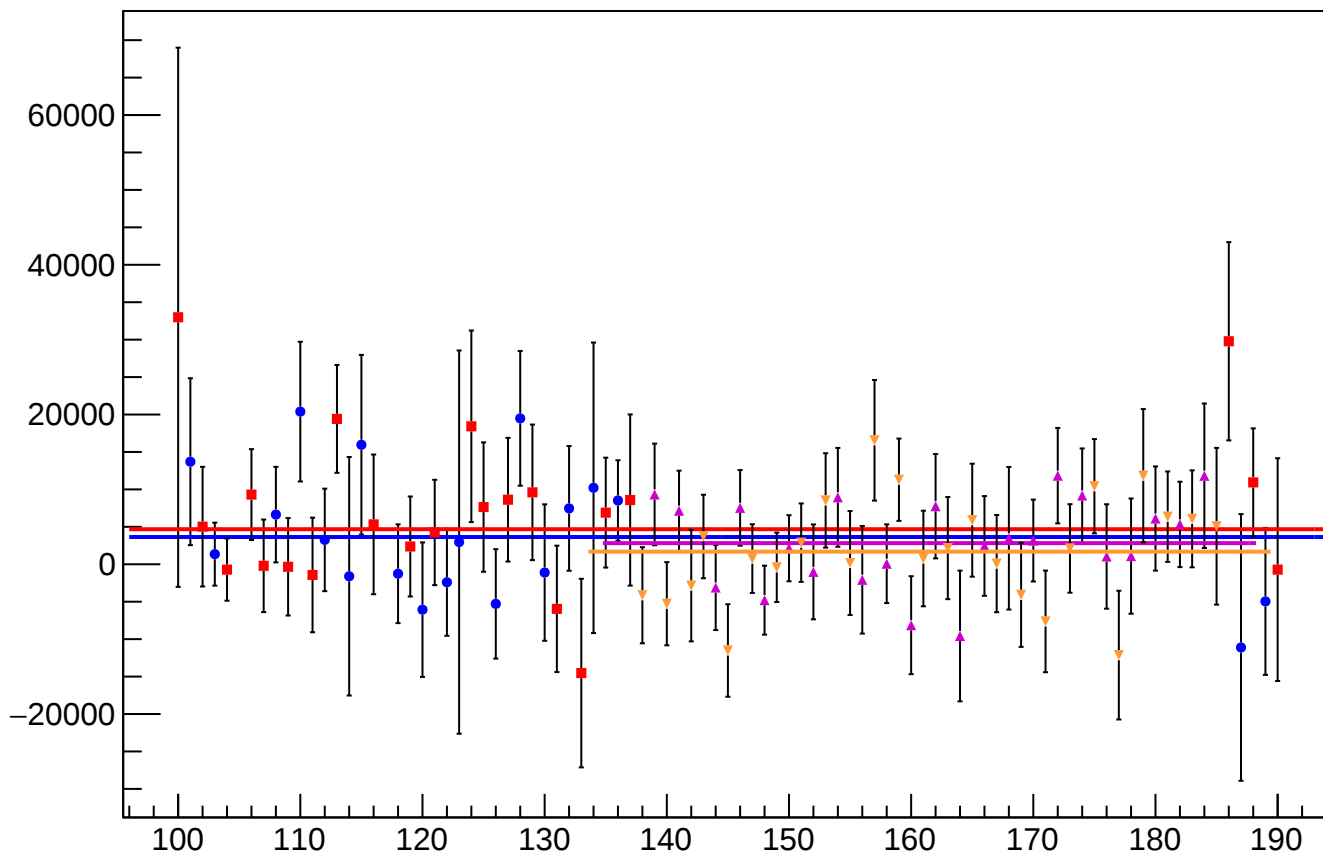
Right: 4057.130+/-0.760 χ^2/NDF : 2952350.1/40

In: 4648.571+/-0.680 χ^2/NDF : 2379495.6/41

Out: 4513.310+/-0.639 χ^2/NDF : 3665455.9/46

All: 4576.716+/-0.466 χ^2/NDF : 6065959.3/88

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3638.494+/-1833.085 χ^2/NDF : 15.6/18

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4684.112+/-1657.142 χ^2/NDF : 19.5/21

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

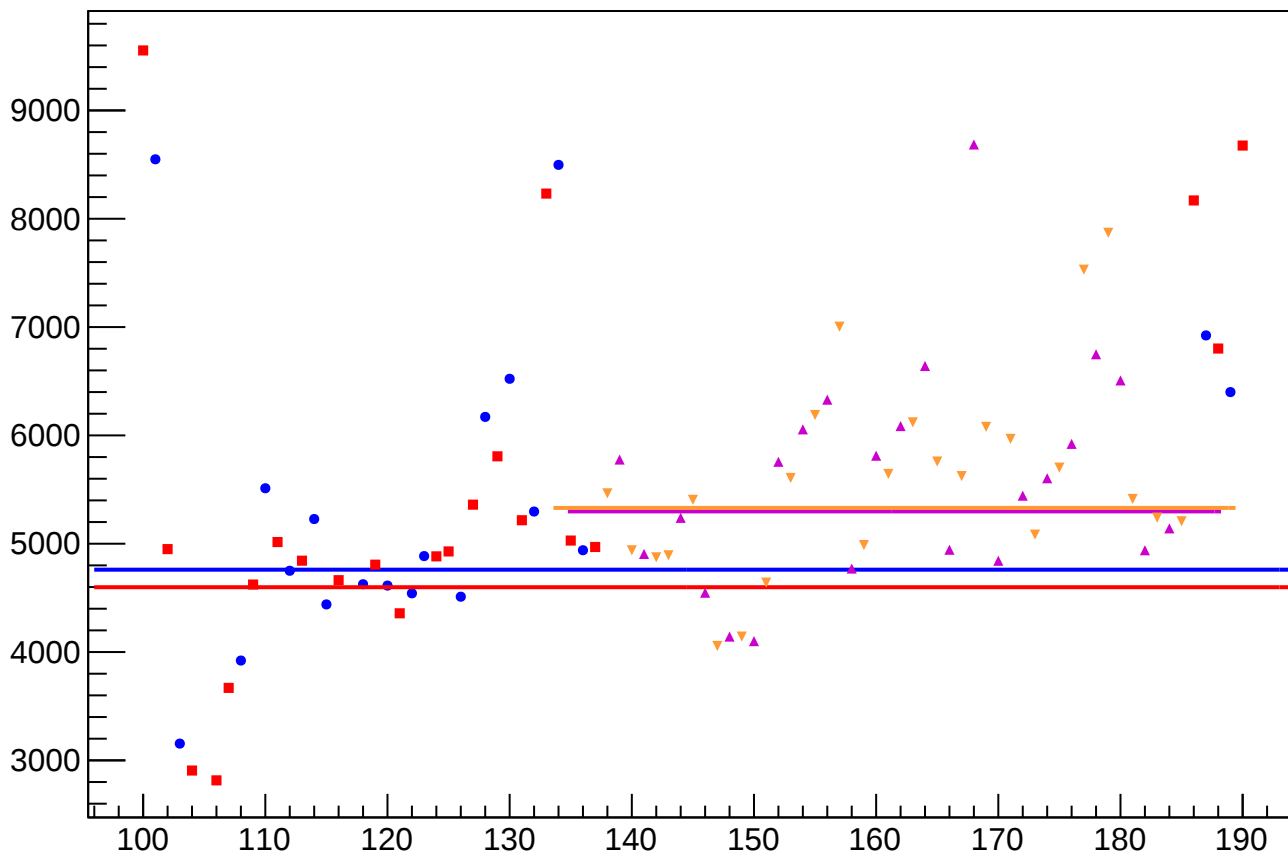
Right: 4213.879+/-1229.285 χ^2/NDF : 35.3/40

In: 3093.378+/-1054.089 χ^2/NDF : 33.8/41

Out: 2786.477+/-1003.829 χ^2/NDF : 46.9/46

All: 2932.437+/-726.933 χ^2/NDF : 80.7/88

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4760.324 ± 1.296 $\chi^2/\text{NDF}: 872336.6/18$

Left Out: 5330.725 ± 0.892 $\chi^2/\text{NDF}: 868061.7/24$

Right Out: 4598.408 ± 1.166 $\chi^2/\text{NDF}: 1354312.5/21$

Left In: 5298.329 ± 0.911 $\chi^2/\text{NDF}: 956021.6/22$

Left: 5314.867 ± 0.637 $\chi^2/\text{NDF}: 1824728.8/47$

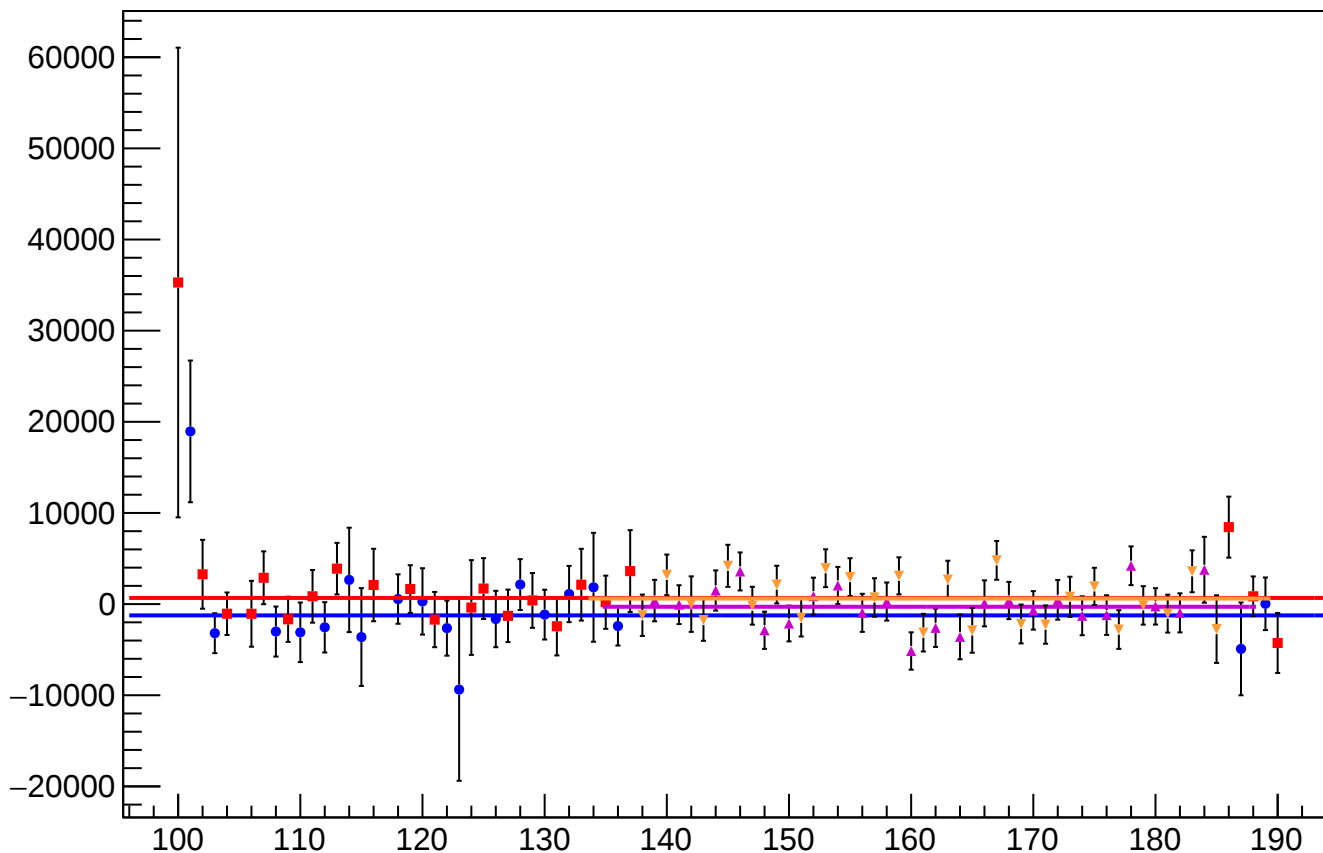
Right: 4670.797 ± 0.867 $\chi^2/\text{NDF}: 2235277.2/40$

In: 5120.430 ± 0.745 $\chi^2/\text{NDF}: 1943671.9/41$

Out: 5060.184 ± 0.708 $\chi^2/\text{NDF}: 2471307.7/46$

All: 5088.777 ± 0.513 $\chi^2/\text{NDF}: 4418412.1/88$

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1239.174+/-733.934 χ^2/NDF : 14.0/18

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 676.317+/-665.817 χ^2/NDF : 16.5/21

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

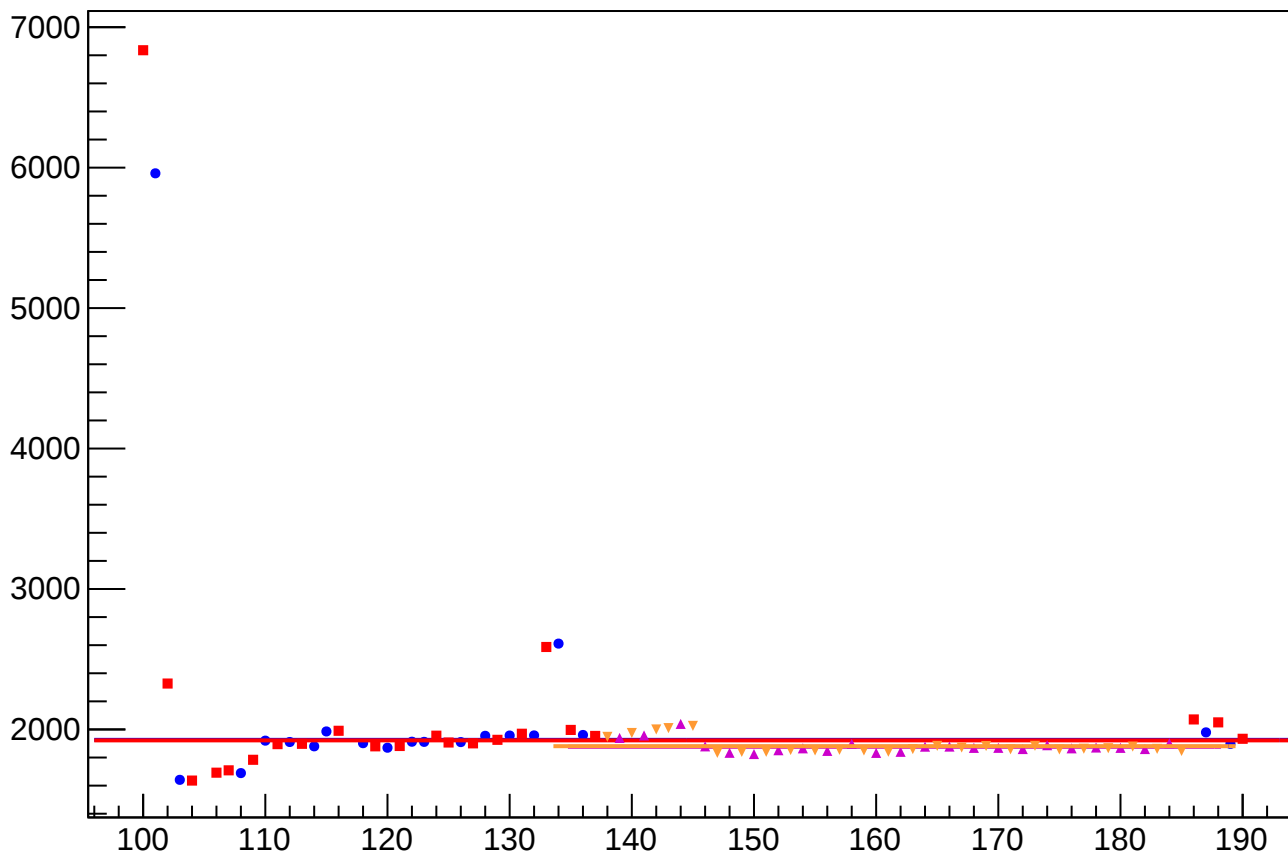
Right: -188.434+/-493.131 χ^2/NDF : 34.2/40

In: -551.166+/-383.368 χ^2/NDF : 38.8/41

Out: 631.662+/-366.076 χ^2/NDF : 49.2/46

All: 67.525+/-264.757 χ^2/NDF : 93.0/88

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1925.873+/-0.519 χ^2/NDF : 616318.5/18

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1922.182+/-0.470 χ^2/NDF : 223698.3/21

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

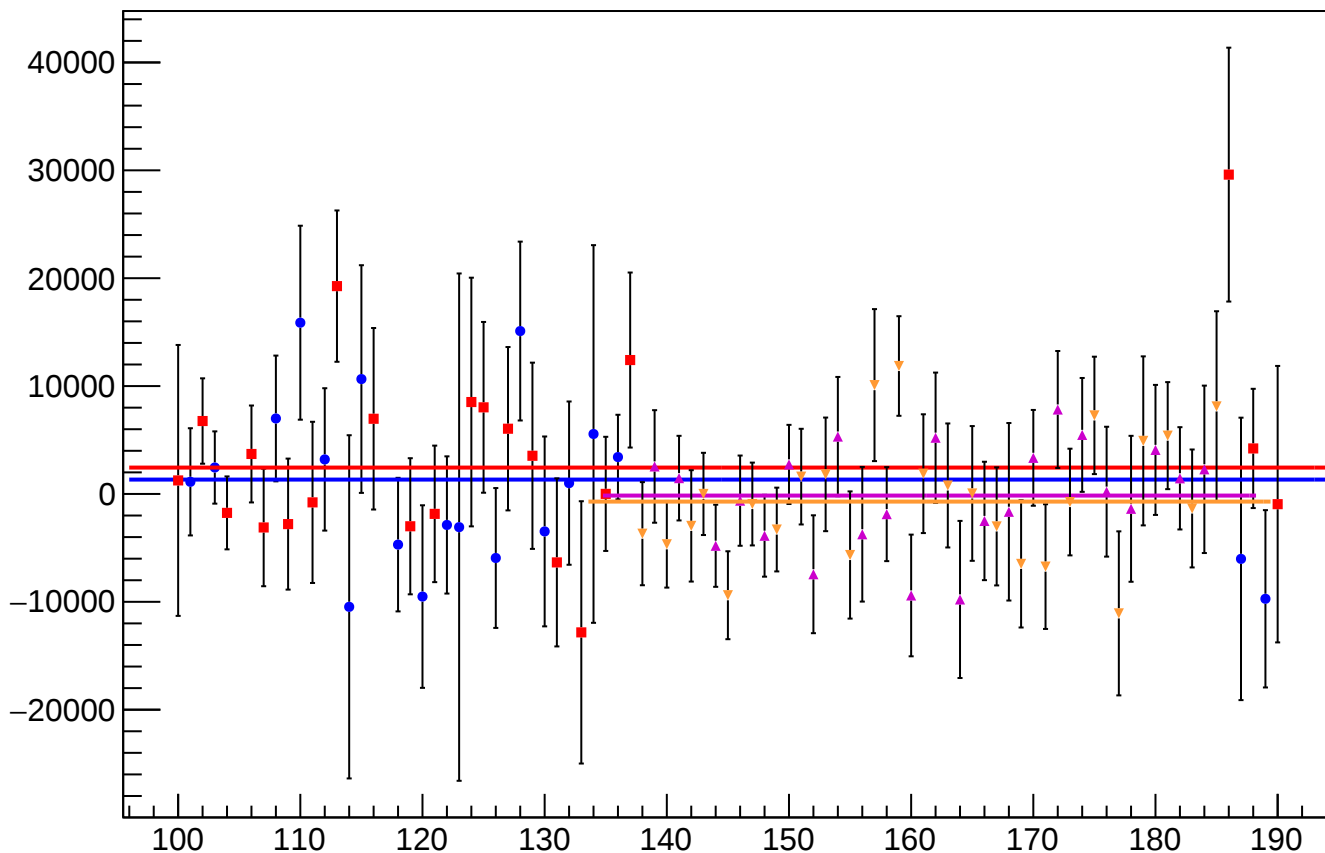
Right: 1923.845+/-0.348 χ^2/NDF : 840044.7/40

In: 1890.106+/-0.271 χ^2/NDF : 643350.4/41

Out: 1893.348+/-0.259 χ^2/NDF : 257756.2/46

All: 1891.803+/-0.187 χ^2/NDF : 901181.5/88

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 1332.130+/-1522.207 χ^2/NDF : 14.9/18

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 2444.954+/-1354.497 χ^2/NDF : 23.1/21

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

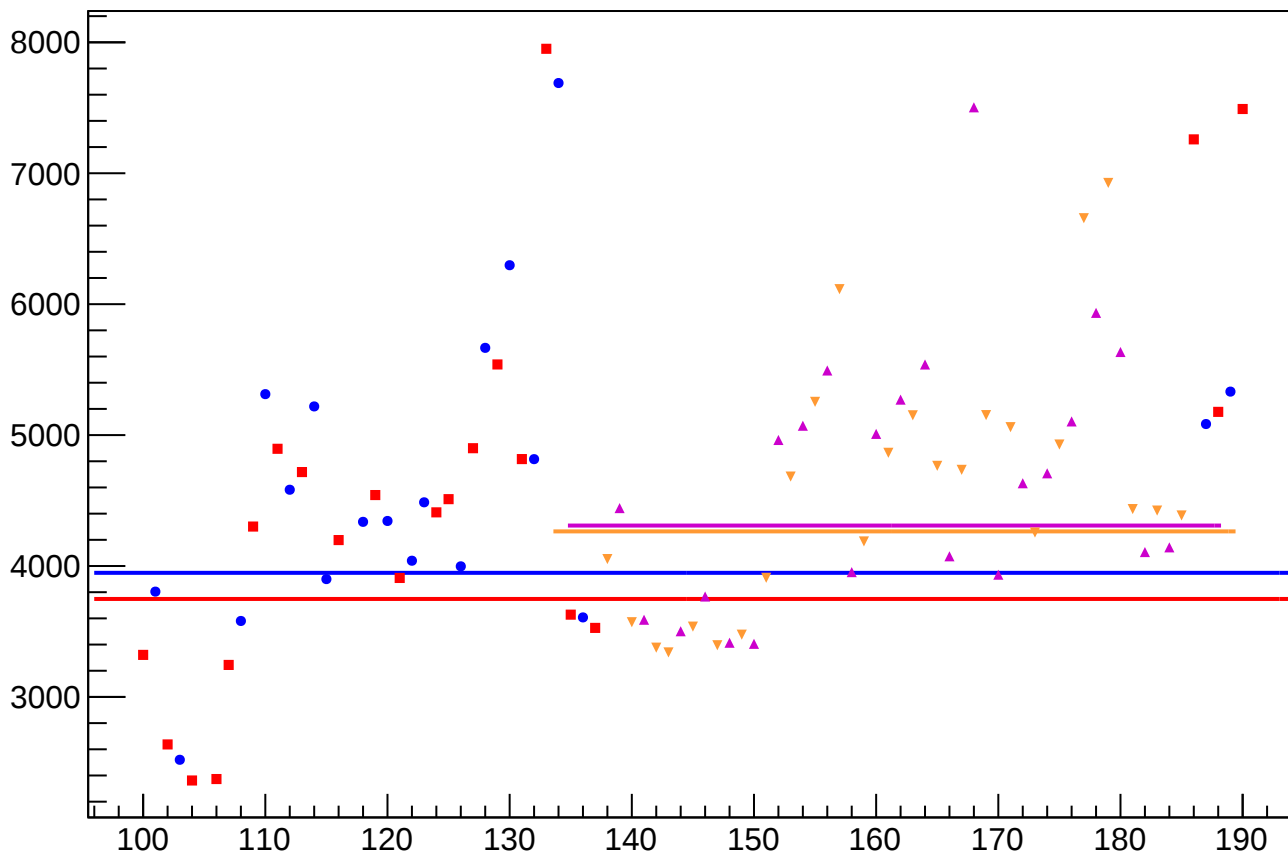
Right: 1953.199+/-1011.894 χ^2/NDF : 38.4/40

In: 329.764+/-866.355 χ^2/NDF : 32.5/41

Out: 429.840+/-813.643 χ^2/NDF : 53.7/46

All: 382.939+/-593.092 χ^2/NDF : 86.2/88

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 3947.916+/-1.076 χ^2/NDF : 897359.3/18

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 3748.367+/-0.958 χ^2/NDF : 1760301.1/21

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

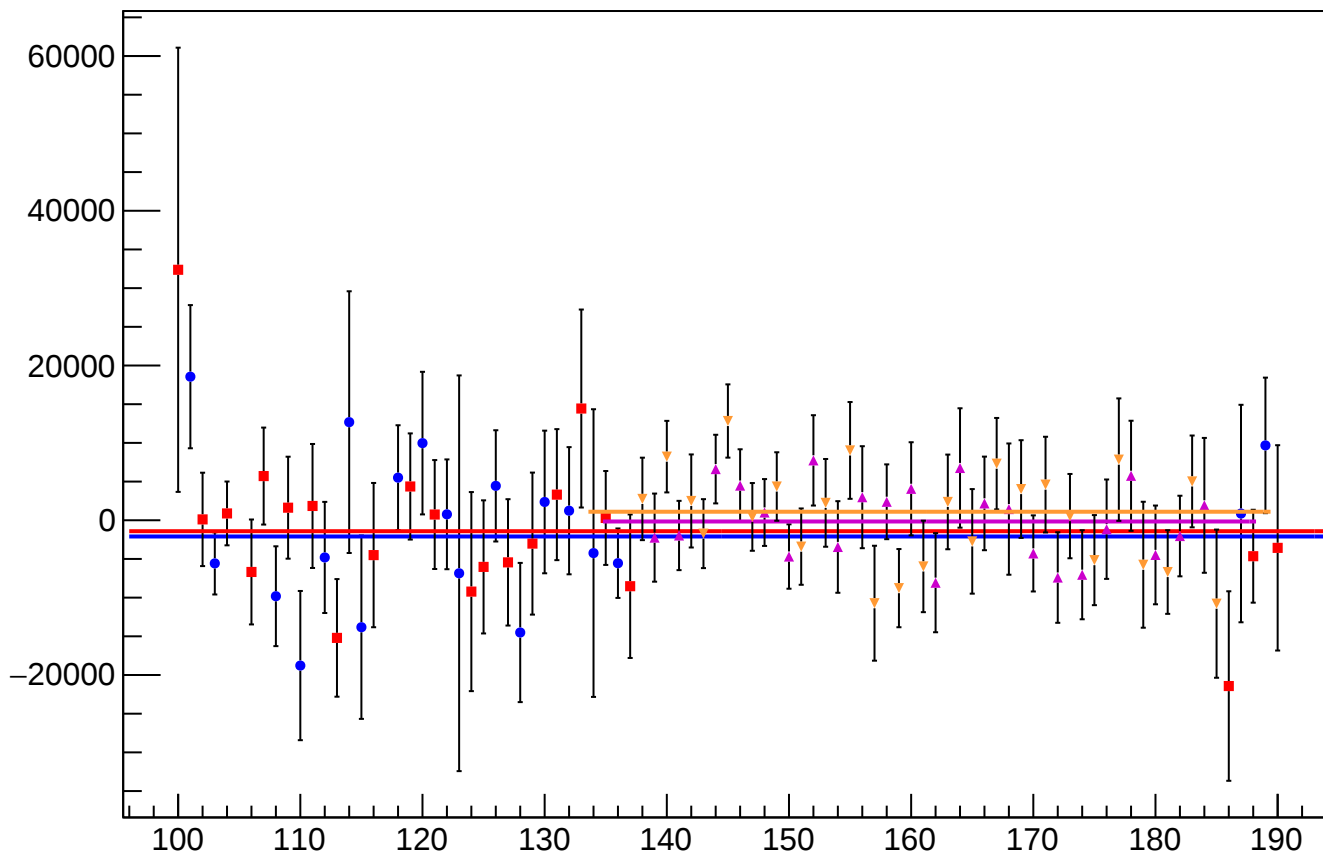
Right: 3836.547+/-0.716 χ^2/NDF : 2676842.4/40

In: 4192.059+/-0.613 χ^2/NDF : 2278591.1/41

Out: 4078.217+/-0.575 χ^2/NDF : 3300766.9/46

All: 4131.569+/-0.419 χ^2/NDF : 5597707.2/88

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2096.938+/-1761.729 χ^2/NDF : 20.8/18

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1414.371+/-1603.572 χ^2/NDF : 14.7/21

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

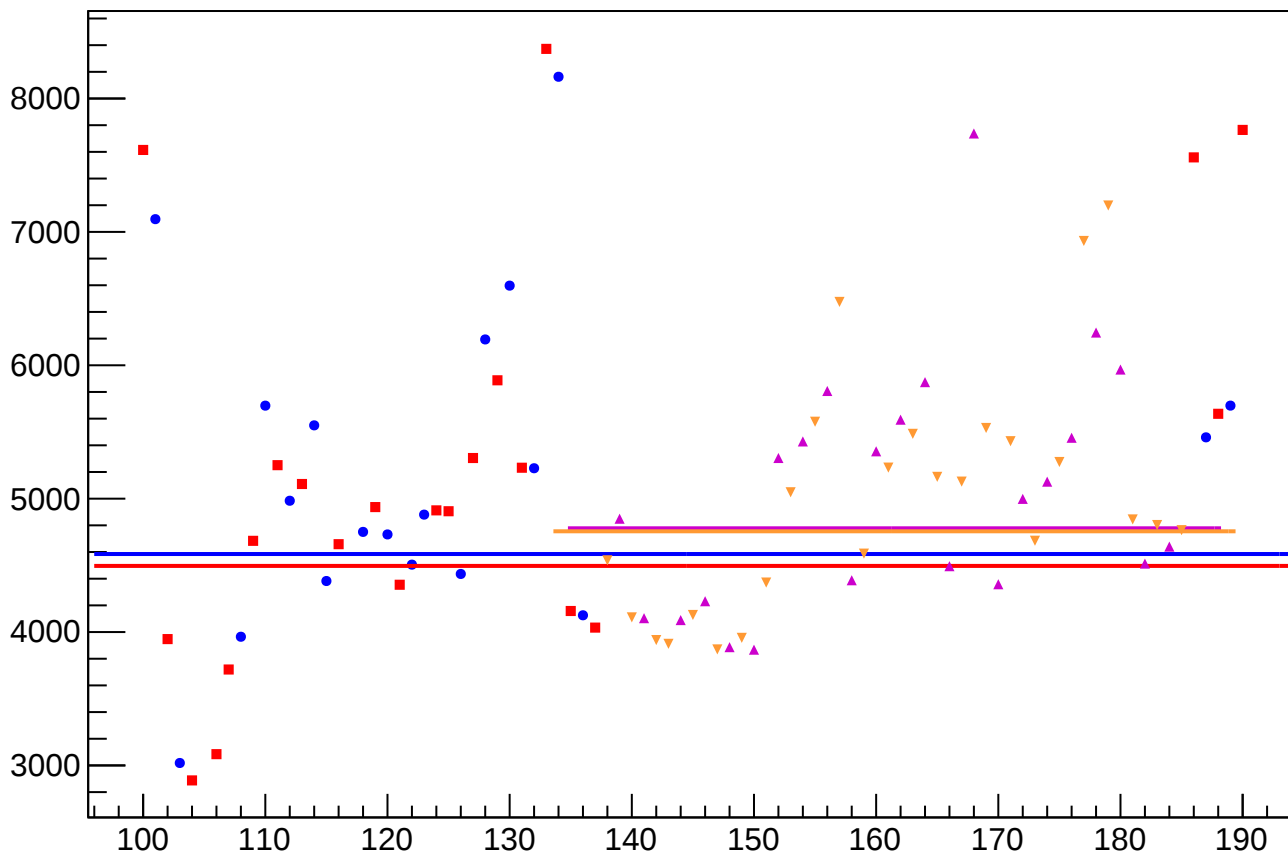
Right: -1723.647+/-1185.877 χ^2/NDF : 35.5/40

In: -745.933+/-969.717 χ^2/NDF : 37.2/41

Out: 270.488+/-921.873 χ^2/NDF : 44.9/46

All: -212.030+/-668.136 χ^2/NDF : 82.6/88

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4585.019+/-1.246 χ^2/NDF : 818980.5/18

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

Right Out: 4495.859+/-1.128 χ^2/NDF : 1120125.2/21

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

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

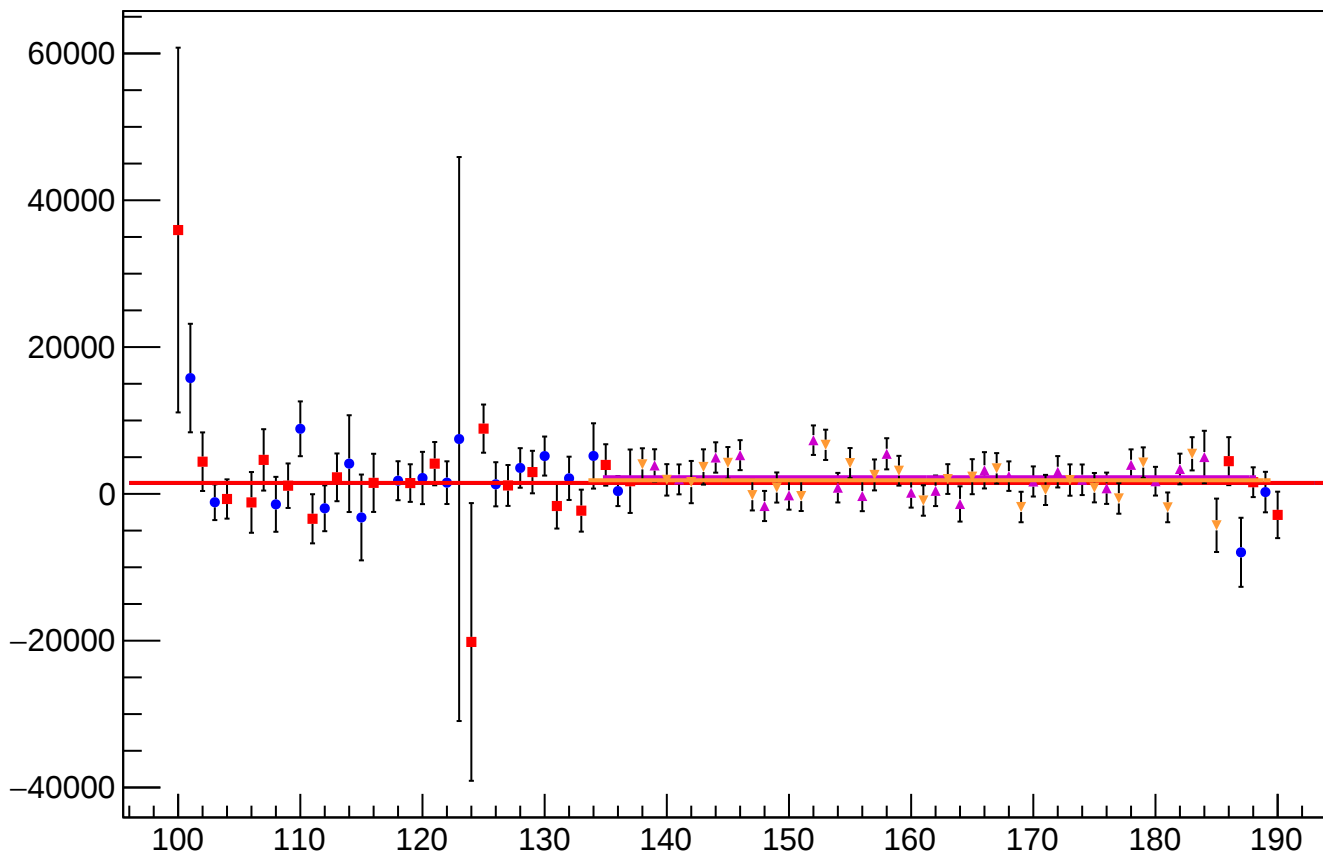
Right: 4536.037+/-0.836 χ^2/NDF : 1941919.9/40

In: 4719.413+/-0.686 χ^2/NDF : 1785969.8/41

Out: 4669.035+/-0.651 χ^2/NDF : 2108761.0/46

All: 4692.909+/-0.472 χ^2/NDF : 3897570.5/88

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1486.729+/-746.187 χ^2/NDF : 19.3/18

Left Out: 1856.570+/-430.977 χ^2/NDF : 30.0/24

Right Out: 1492.357+/-684.963 χ^2/NDF : 20.0/21

Left In: 2268.464+/-441.710 χ^2/NDF : 26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

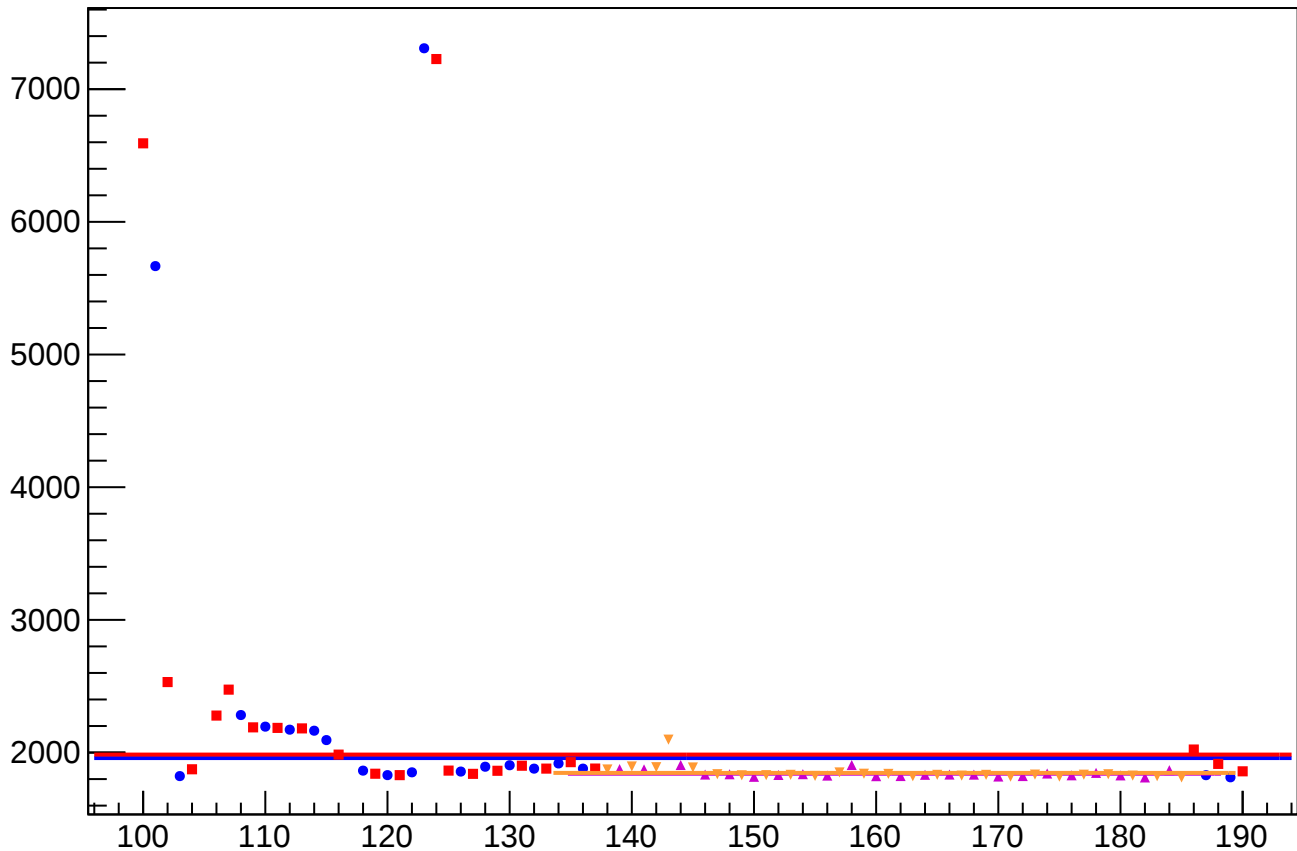
Right: 1489.784+/-504.600 χ^2/NDF : 39.3/40

In: 2065.615+/-380.106 χ^2/NDF : 46.9/41

Out: 1753.276+/-364.778 χ^2/NDF : 50.2/46

All: 1903.021+/-263.189 χ^2/NDF : 97.5/88

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1958.448 $\pm$ 0.528 χ^2 /NDF: 607670.7/18

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1984.695 $\pm$ 0.484 χ^2 /NDF: 360264.2/21

Left In: 1840.541 $\pm$ 0.312 χ^2 /NDF: 6740.2/22

Left: 1843.646 $\pm$ 0.218 χ^2 /NDF: 34235.8/47

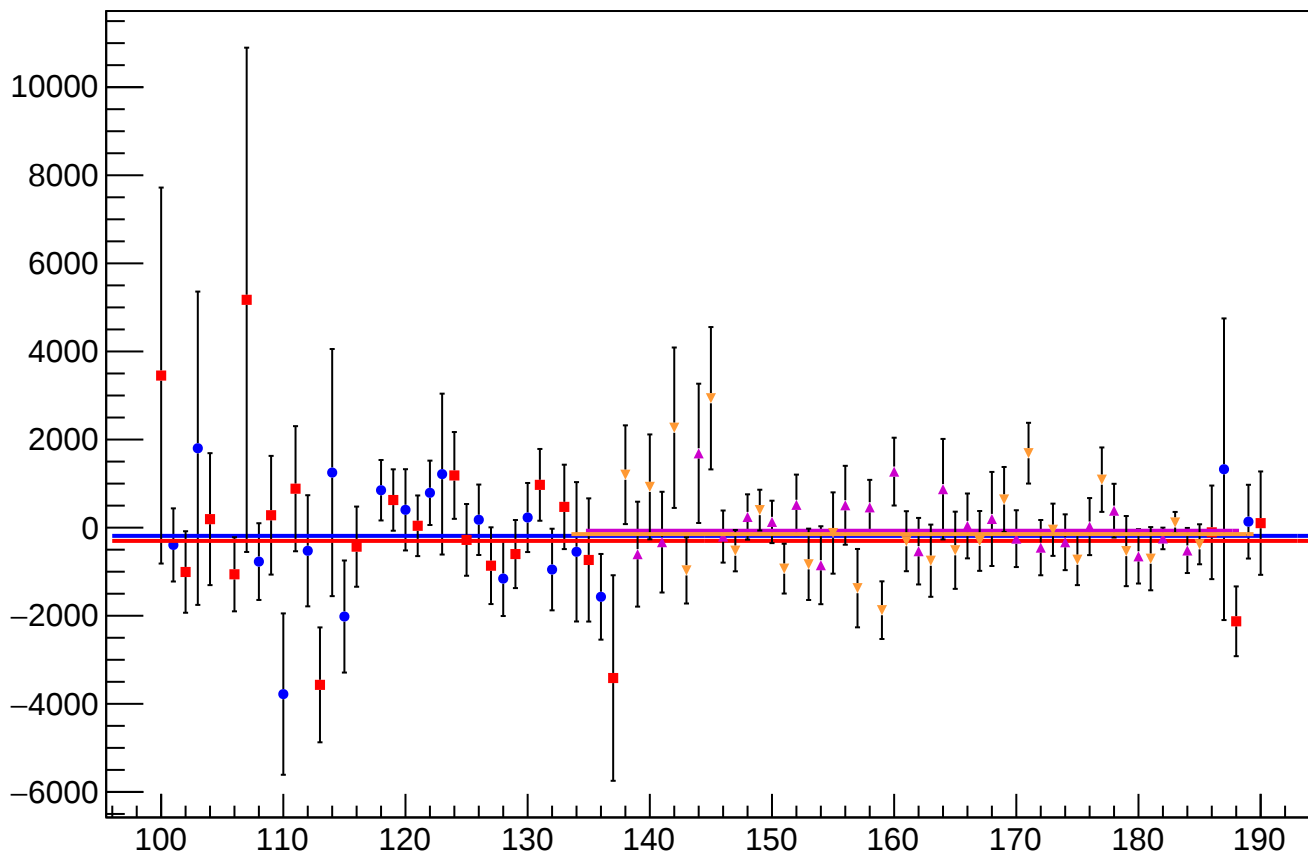
Right: 1972.692 $\pm$ 0.357 χ^2 /NDF: 969277.8/40

In: 1871.137 $\pm$ 0.269 χ^2 /NDF: 651389.1/41

Out: 1885.767 $\pm$ 0.258 χ^2 /NDF: 445802.5/46

All: 1878.753 $\pm$ 0.186 χ^2 /NDF: 1098734.0/88

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -186.539+/-231.254 χ^2/NDF : 17.0/18

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -300.753+/-212.479 χ^2/NDF : 25.7/21

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

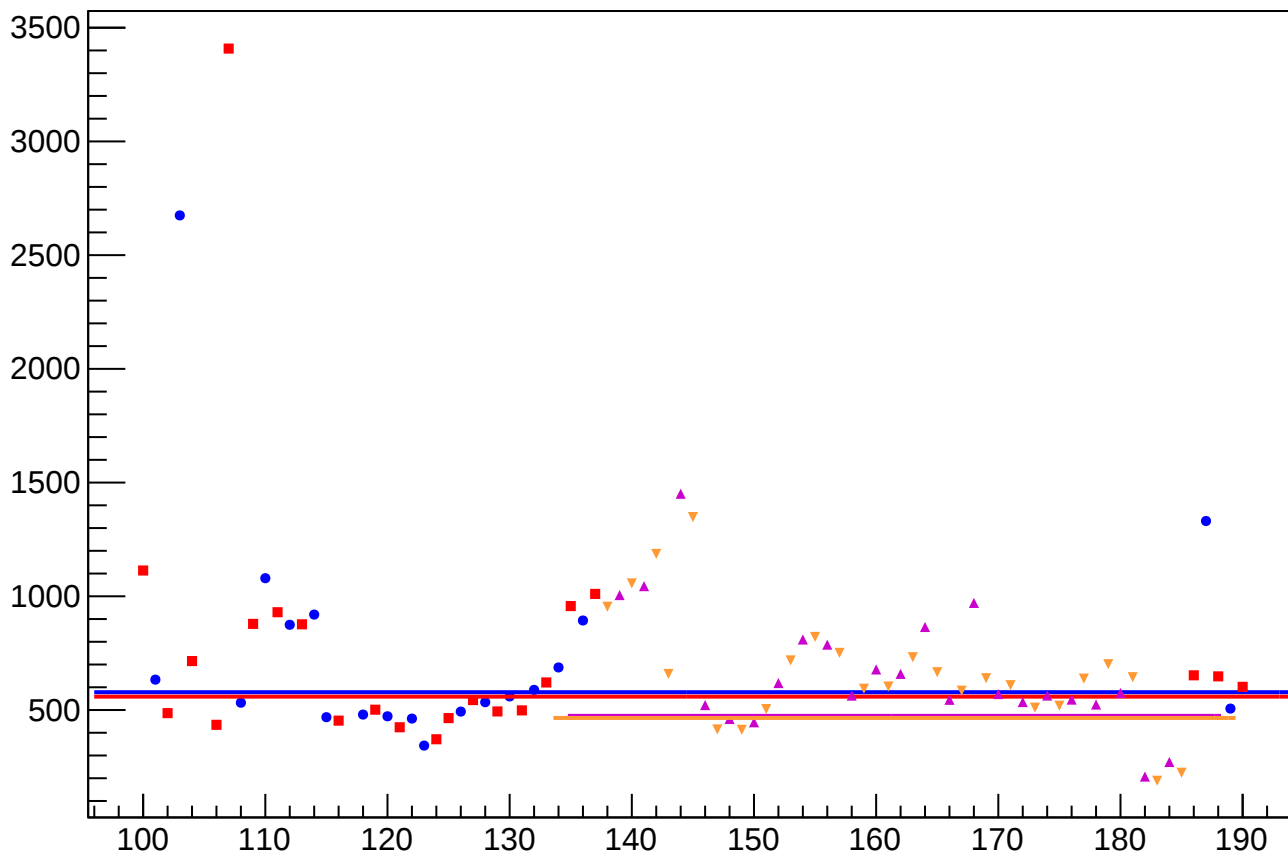
Right: -248.470+/-156.463 χ^2/NDF : 42.8/40

In: -97.061+/-110.895 χ^2/NDF : 29.5/41

Out: -185.112+/-105.790 χ^2/NDF : 63.7/46

All: -143.160+/-76.546 χ^2/NDF : 93.6/88

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 578.333+/-0.164 χ^2/NDF : 1525403.5/18

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 558.817+/-0.150 χ^2/NDF : 1506076.4/21

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

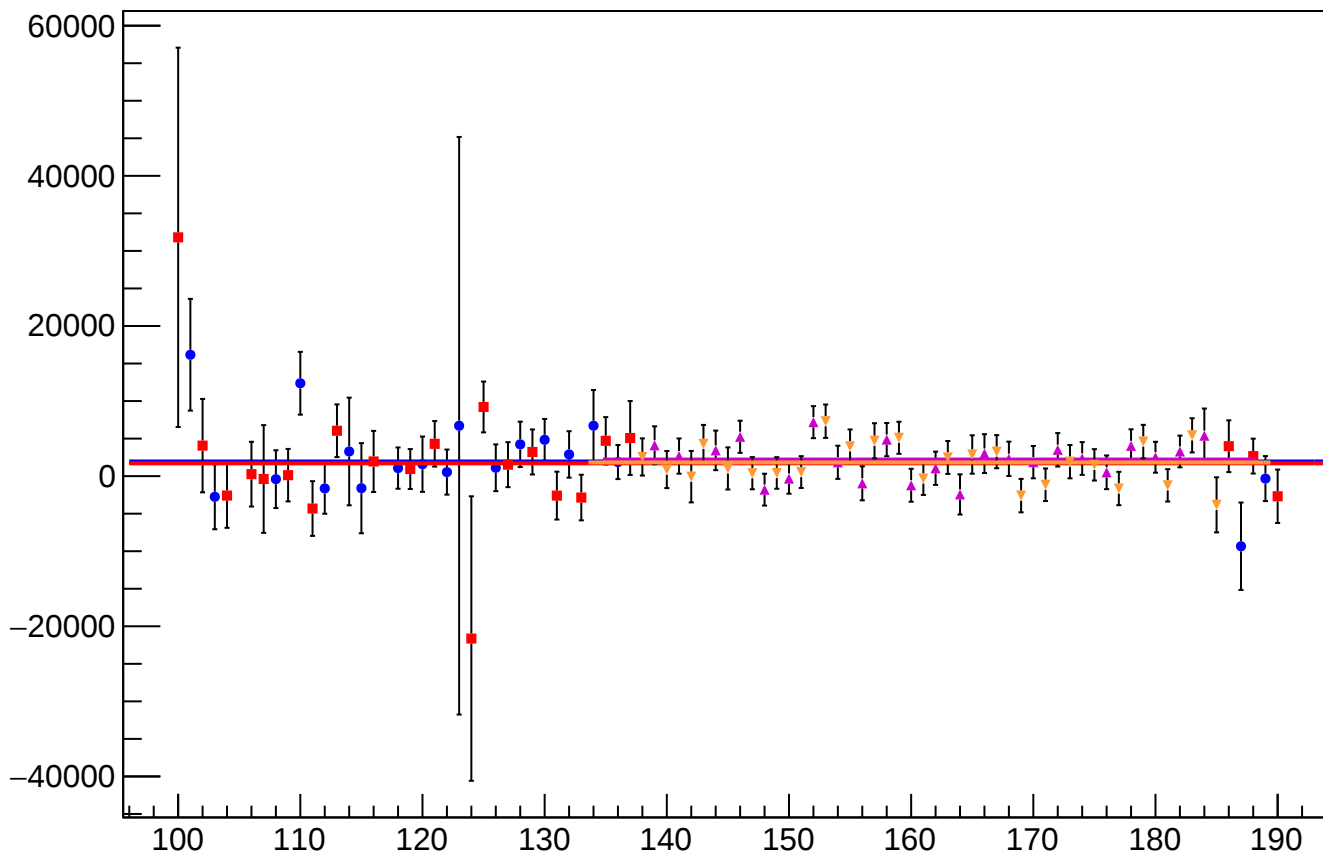
Right: 567.751+/-0.111 χ^2/NDF : 3039203.1/40

In: 498.194+/-0.078 χ^2/NDF : 8010406.3/41

Out: 488.317+/-0.075 χ^2/NDF : 8884966.9/46

All: 493.023+/-0.054 χ^2/NDF : 16903680.6/88

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1954.267+/-823.282 χ^2/NDF : 20.4/18

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 1706.066+/-764.113 χ^2/NDF : 22.3/21

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

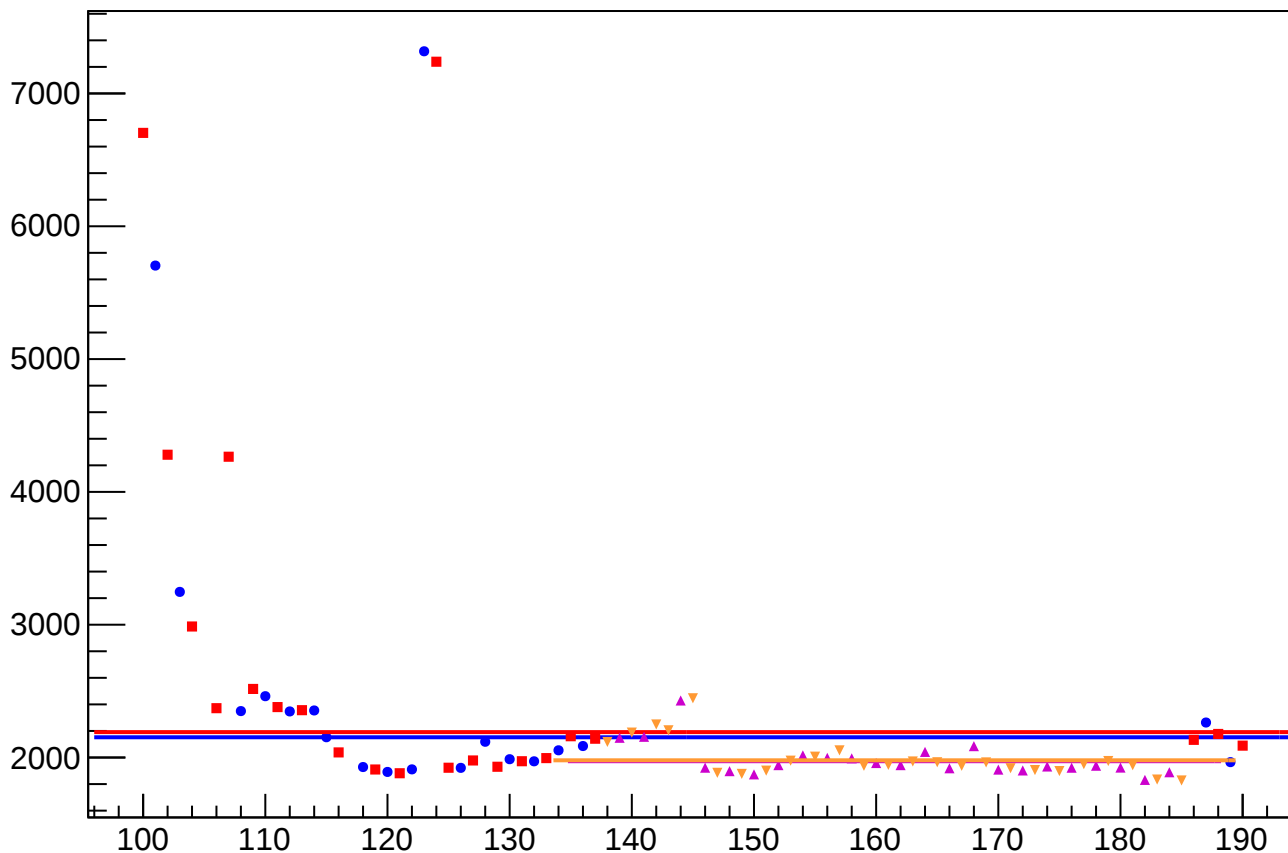
Right: 1820.928+/-560.060 χ^2/NDF : 42.8/40

In: 2144.907+/-410.814 χ^2/NDF : 45.9/41

Out: 1792.407+/-395.788 χ^2/NDF : 54.4/46

All: 1962.093+/-285.028 χ^2/NDF : 100.7/88

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2152.396 $\pm$ 0.582 χ^2 /NDF: 716804.1/18

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2191.296 $\pm$ 0.540 χ^2 /NDF: 801710.6/21

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

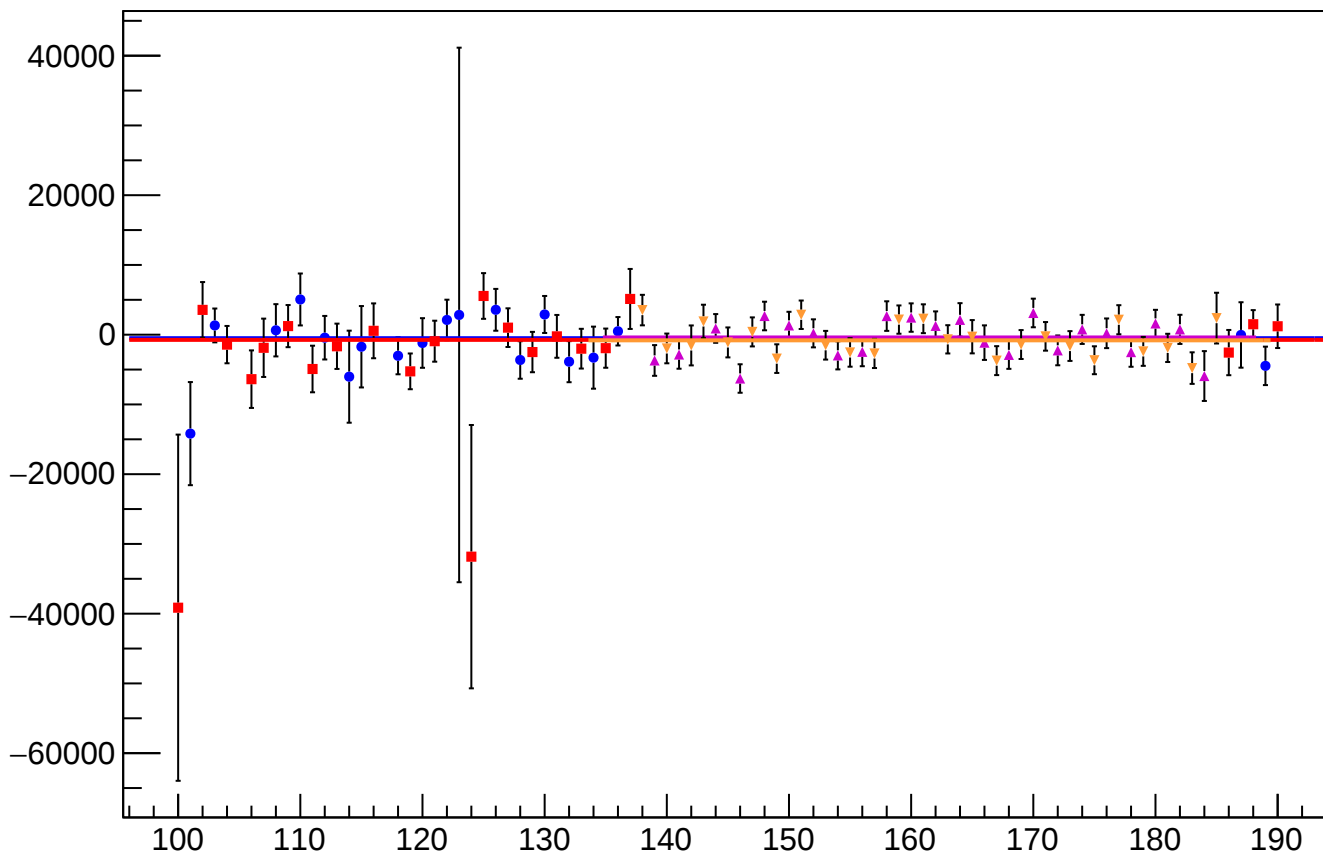
Right: 2173.294 $\pm$ 0.396 χ^2 /NDF: 1520913.4/40

In: 2017.043 $\pm$ 0.290 χ^2 /NDF:905239.2/41

Out: 2035.956 $\pm$ 0.280 χ^2 /NDF:1053976.5/46

All: 2026.851 $\pm$ 0.202 χ^2 /NDF: 1961414.1/88

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -503.475+/-744.833 χ^2/NDF : 17.7/18

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -741.610+/-682.924 χ^2/NDF : 22.2/21

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

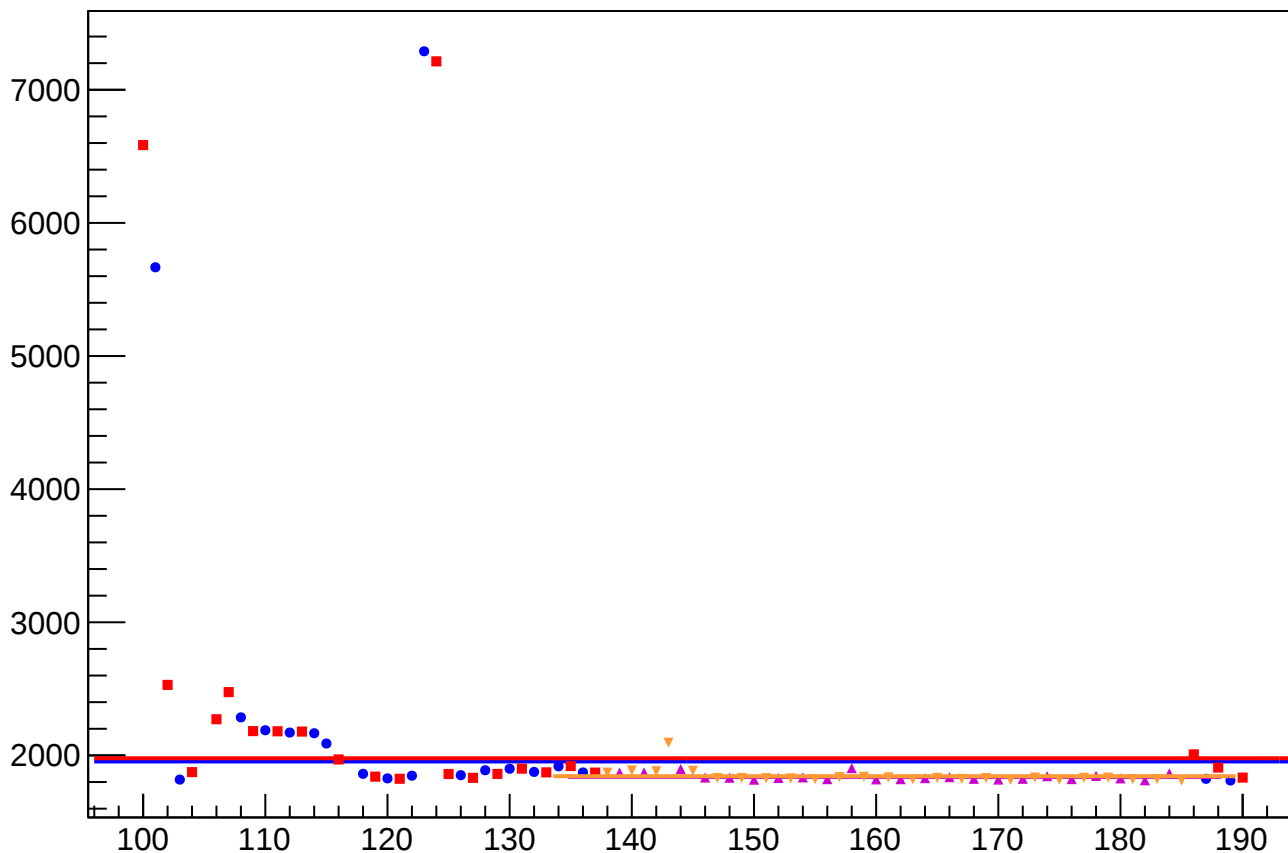
Right: -632.849+/-503.366 χ^2/NDF : 39.9/40

In: -425.990+/-379.631 χ^2/NDF : 52.1/41

Out: -789.445+/-364.061 χ^2/NDF : 50.1/46

All: -615.323+/-262.762 χ^2/NDF : 102.7/88

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1954.696 $\pm$ 0.527 χ^2 /NDF: 609711.6/18

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1978.619 $\pm$ 0.483 χ^2 /NDF: 362177.7/21

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

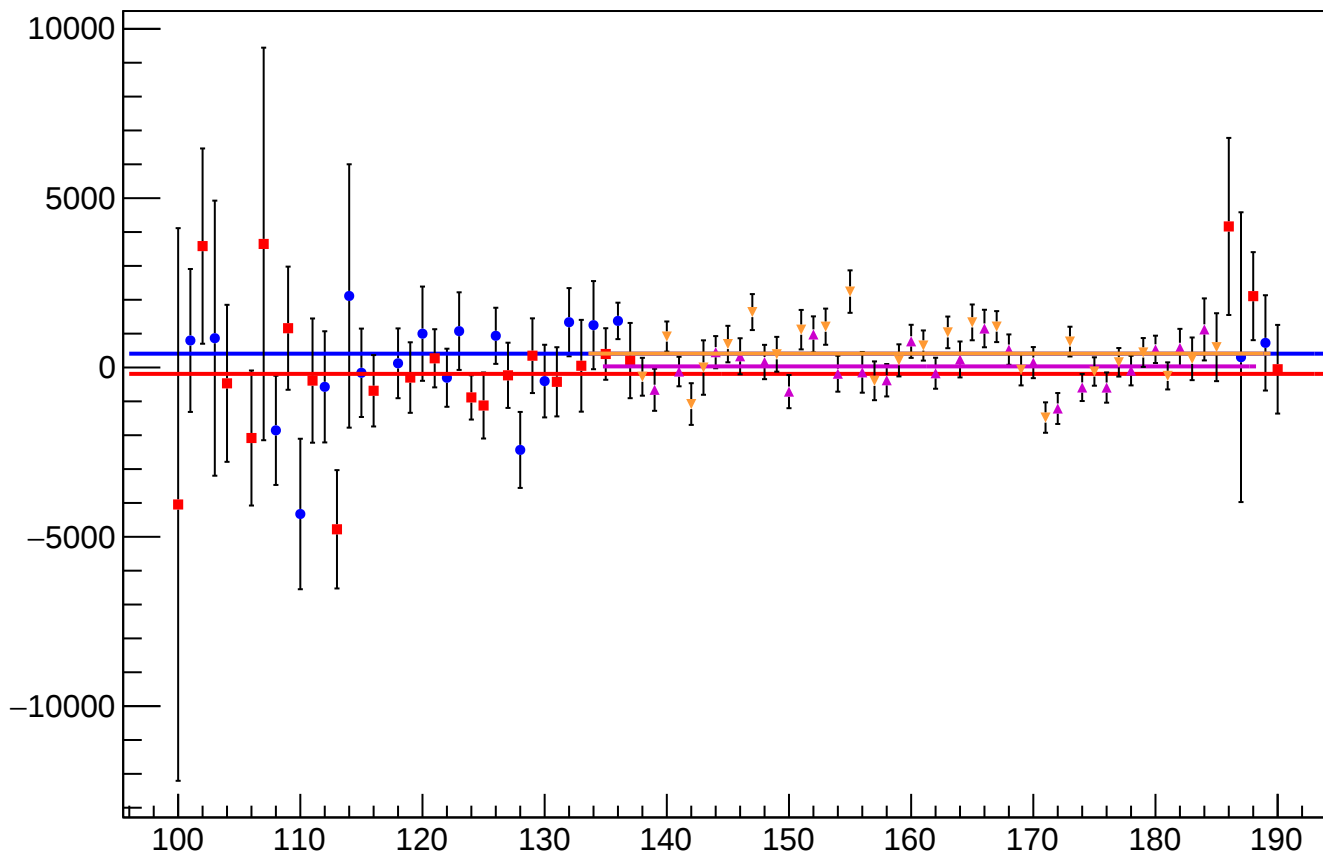
Right: 1967.693 $\pm$ 0.356 χ^2 /NDF: 973010.2/40

In: 1868.768 $\pm$ 0.268 χ^2 /NDF: 652007.4/41

Out: 1882.076 $\pm$ 0.257 χ^2 /NDF: 444883.4/46

All: 1875.700 $\pm$ 0.186 χ^2 /NDF: 1098171.1/88

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 408.102 $\pm$ 265.526 χ^2 /NDF: 20.5/18

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -188.432 $\pm$ 255.151 χ^2 /NDF: 20.3/21

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

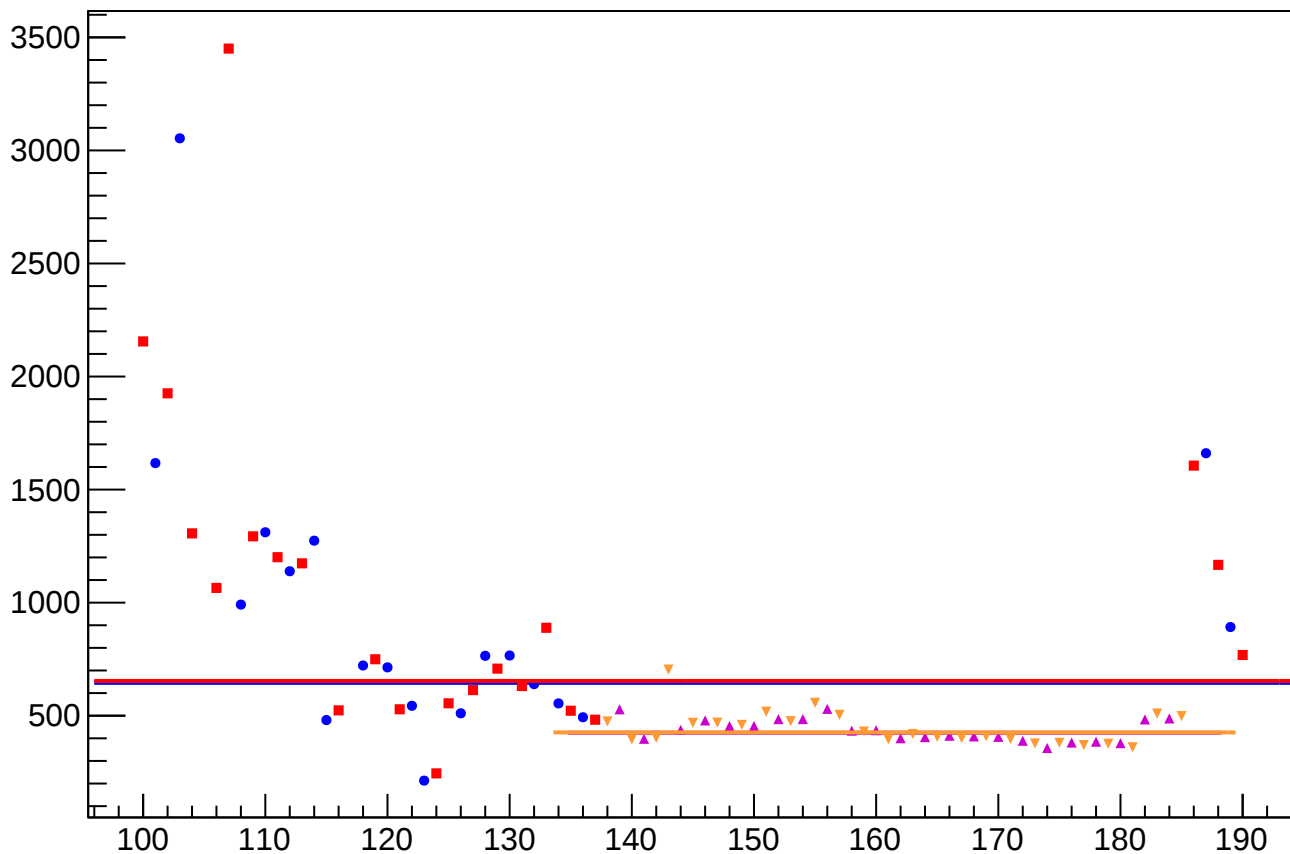
Right: 97.953 $\pm$ 183.978 χ^2 /NDF: 43.4/40

In: 81.094 $\pm$ 95.544 χ^2 /NDF:55.0/41

Out: 330.615 $\pm$ 93.472 χ^2 /NDF:86.2/46

All: 208.589 $\pm$ 66.815 χ^2 /NDF: 144.7/88

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 645.318 $\pm$ 0.188 χ^2 /NDF: 2437432.7/18

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 653.845 $\pm$ 0.180 χ^2 /NDF: 3431907.9/21

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

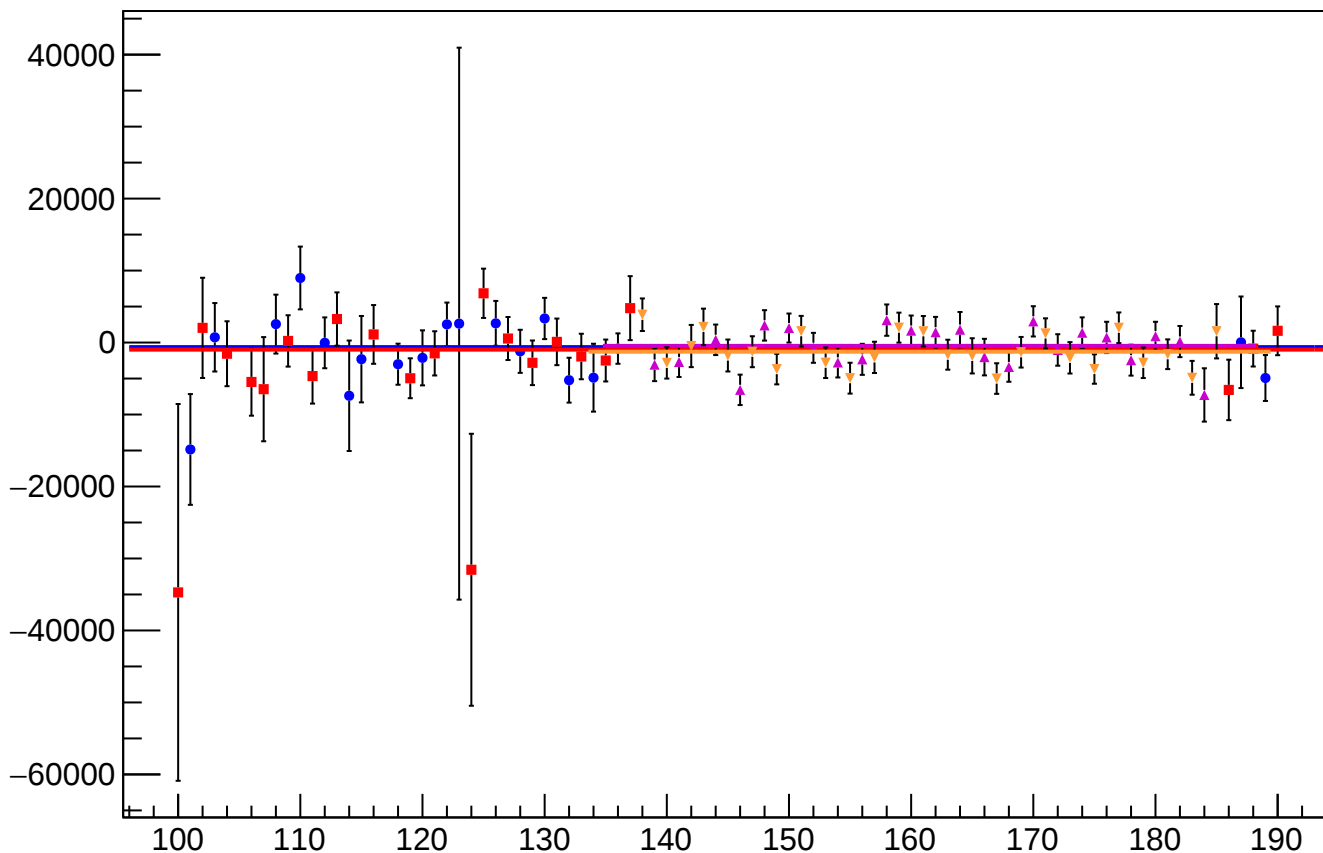
Right: 649.751 $\pm$ 0.130 χ^2 /NDF: 5870413.0/40

In: 453.211 $\pm$ 0.068 χ^2 /NDF: 4031633.3/41

Out: 456.602 $\pm$ 0.066 χ^2 /NDF: 5545440.0/46

All: 454.944 $\pm$ 0.047 χ^2 /NDF: 9578360.1/88

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -634.562 ± 835.923 χ^2/NDF : 19.7/18

Left Out: -1267.885 ± 443.219 χ^2/NDF : 30.8/24

Right Out: -983.106 ± 784.254 χ^2/NDF : 21.1/21

Left In: -462.599 ± 453.947 χ^2/NDF : 32.6/22

Left: -874.870 ± 317.128 χ^2/NDF : 65.0/47

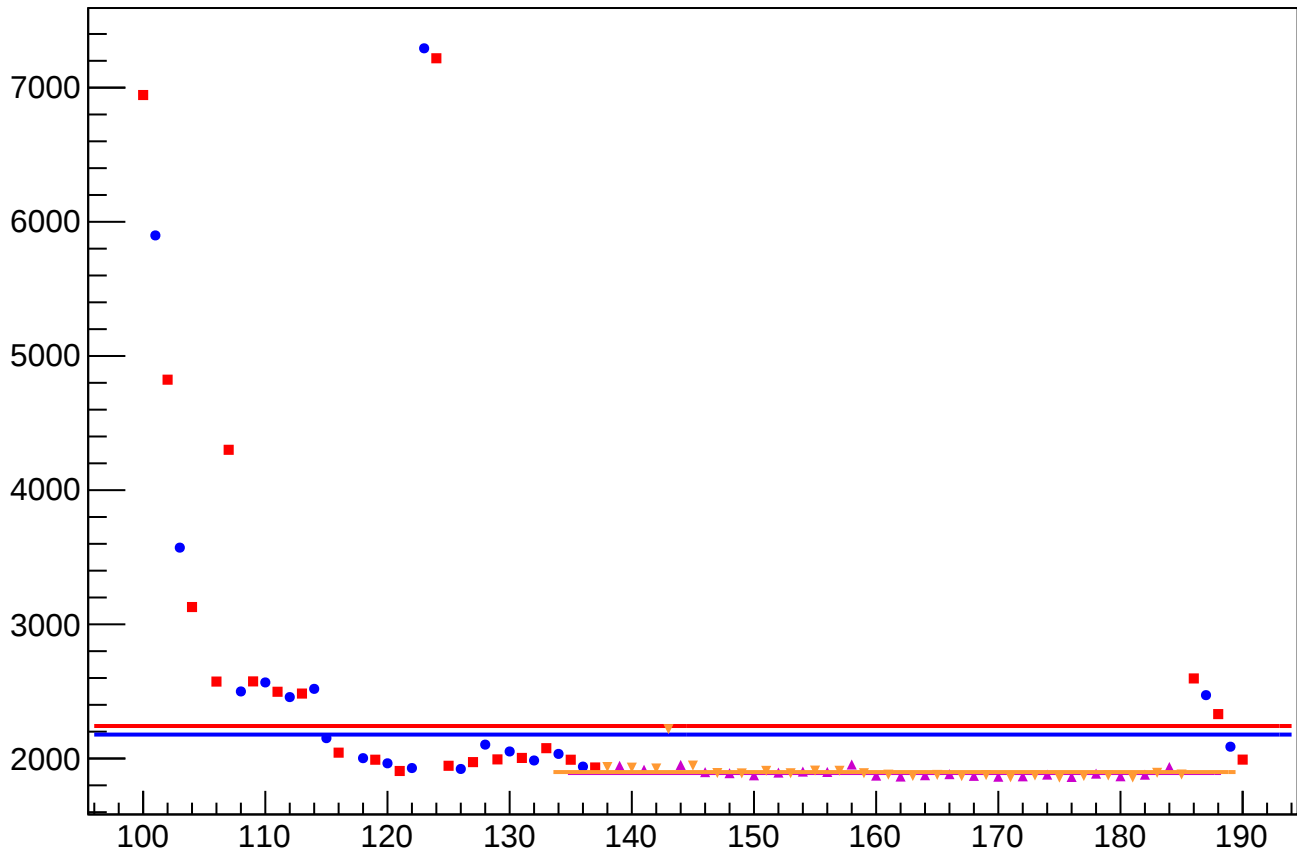
Right: -819.938 ± 571.946 χ^2/NDF : 40.8/40

In: -501.762 ± 398.921 χ^2/NDF : 52.3/41

Out: -1198.947 ± 385.861 χ^2/NDF : 52.0/46

All: -861.953 ± 277.347 χ^2/NDF : 105.8/88

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2178.290+/-0.591 χ^2/NDF : 806714.1/18

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2242.190+/-0.555 χ^2/NDF : 919972.4/21

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

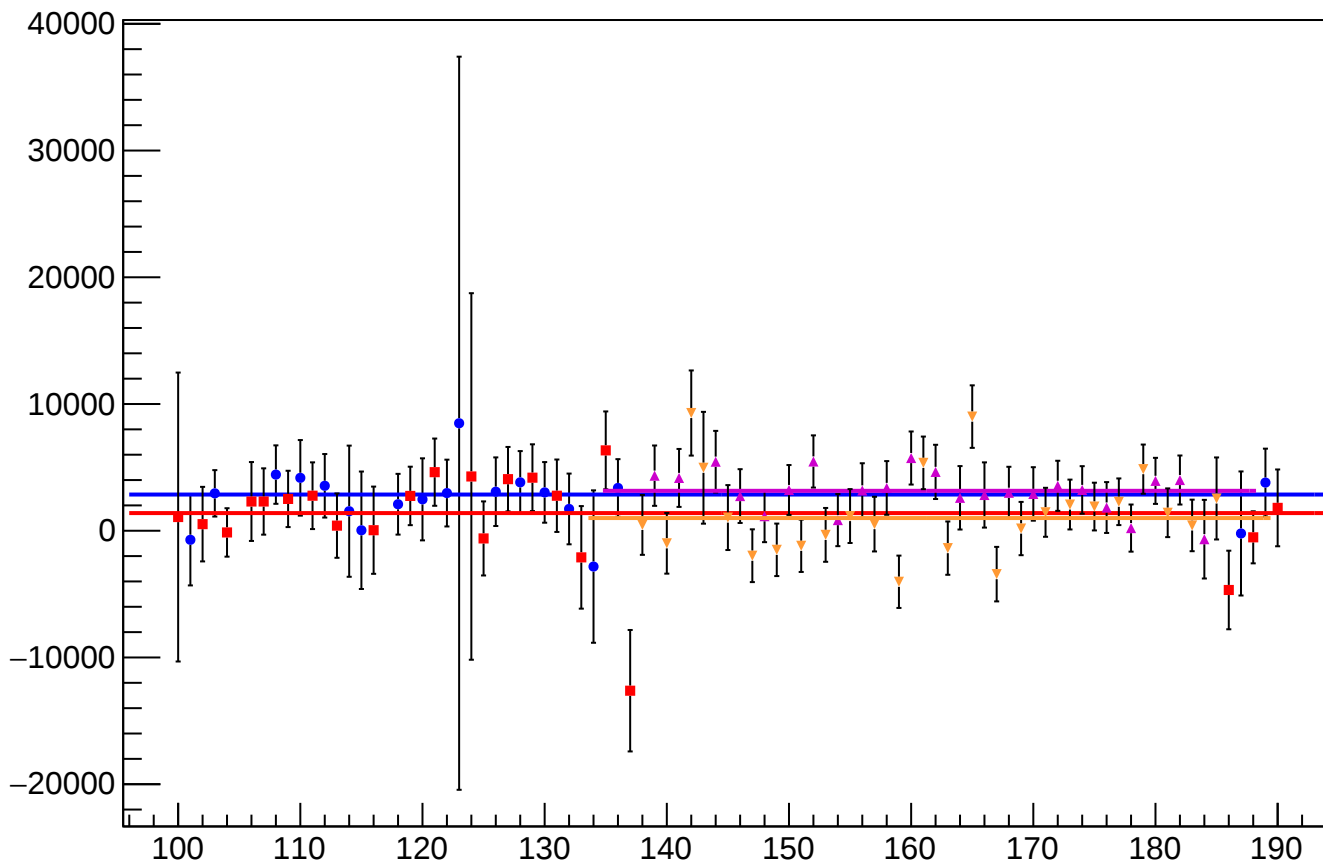
Right: 2212.276+/-0.404 χ^2/NDF : 1732902.3/40

In: 1956.962+/-0.282 χ^2/NDF : 995688.1/41

Out: 1982.049+/-0.273 χ^2/NDF : 1248995.3/46

All: 1969.923+/-0.196 χ^2/NDF : 2248769.5/88

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2857.010 $\pm$ 653.656 χ^2 /NDF: 4.1/18

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1393.779 $\pm$ 601.176 χ^2 /NDF: 23.2/21

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

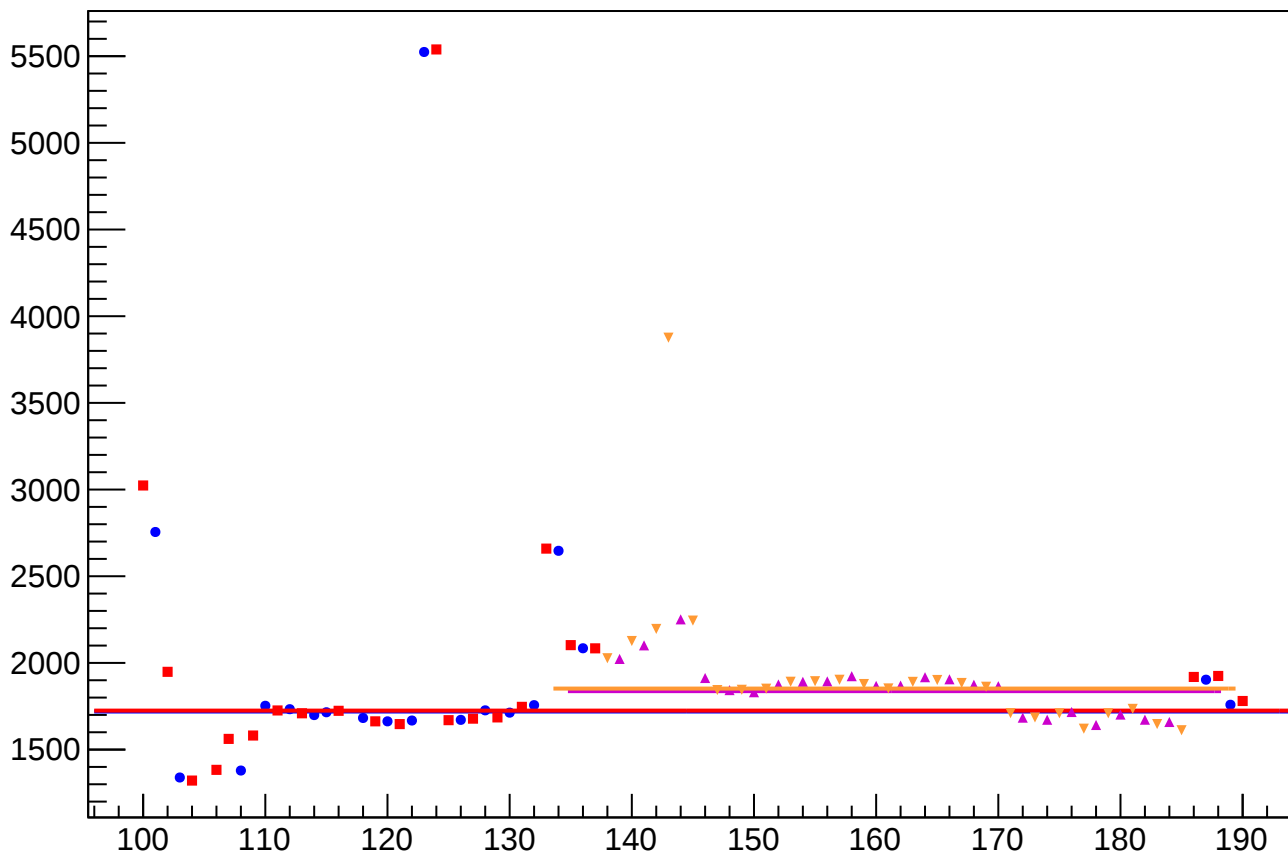
Right: 2064.305 $\pm$ 442.487 χ^2 /NDF: 30.0/40

In: 3058.612 $\pm$ 365.661 χ^2 /NDF:16.1/41

Out: 1136.251 $\pm$ 352.549 χ^2 /NDF:68.1/46

All: 2062.347 $\pm$ 253.799 χ^2 /NDF: 98.5/88

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1719.619+/-0.462 χ^2/NDF : 435698.3/18

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1724.878+/-0.425 χ^2/NDF : 486792.3/21

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

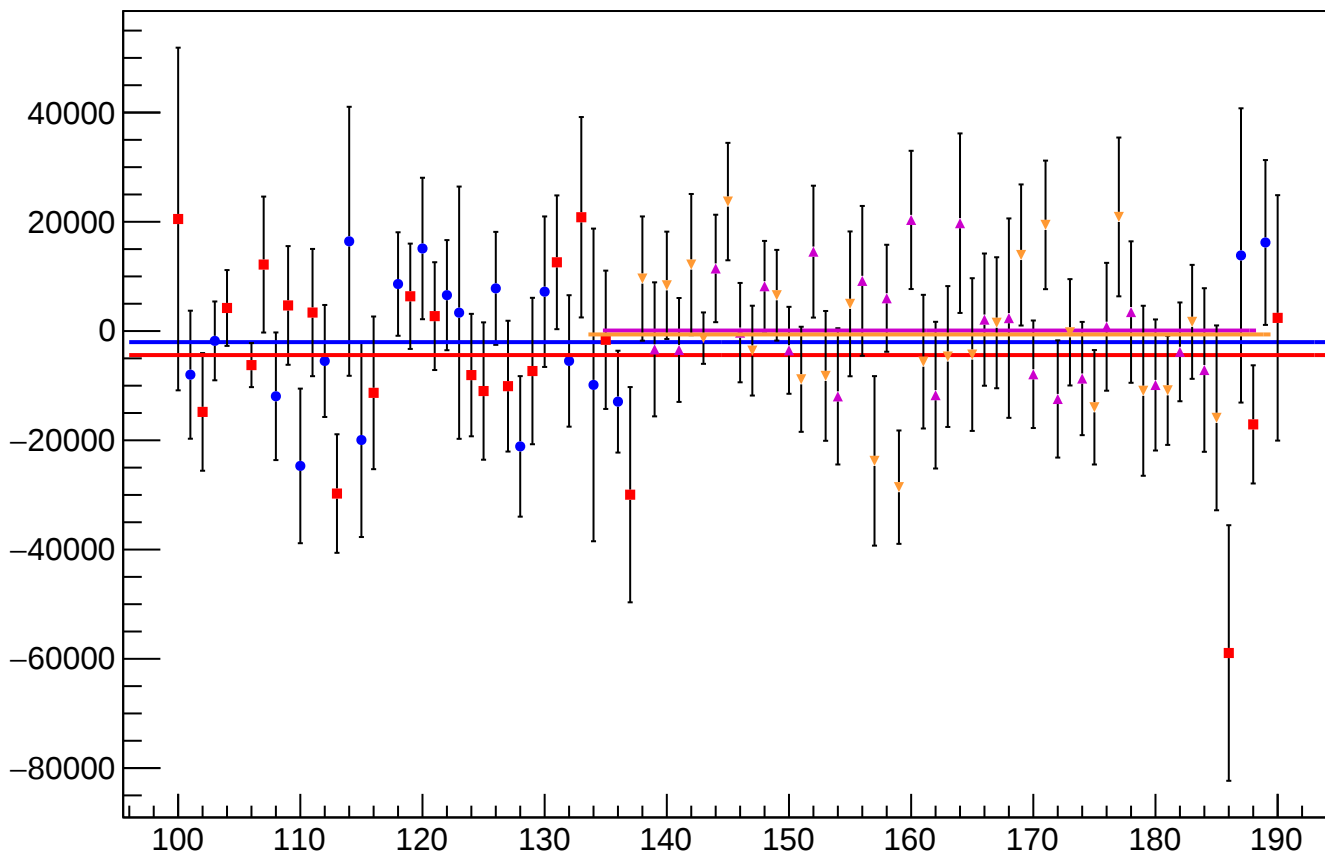
Right: 1722.468+/-0.313 χ^2/NDF : 922560.7/40

In: 1800.370+/-0.259 χ^2/NDF : 680638.4/41

Out: 1808.255+/-0.249 χ^2/NDF : 1194381.6/46

All: 1804.456+/-0.179 χ^2/NDF : 1875501.9/88

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -2027.182 $\pm$ 2794.653 χ^2 /NDF: 15.9/18

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -4397.557 $\pm$ 2200.822 χ^2 /NDF: 26.8/21

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

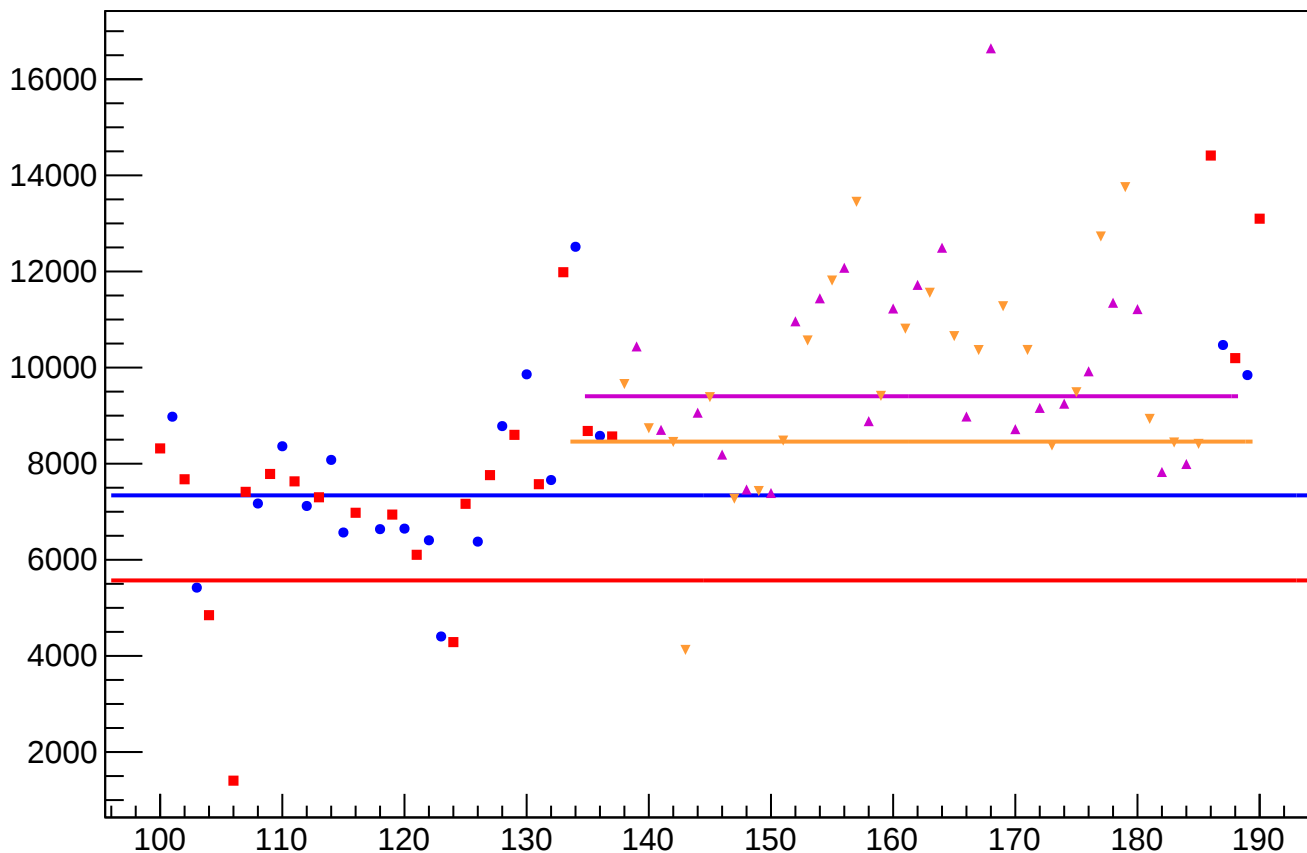
Right: -3490.219 $\pm$ 1729.036 χ^2 /NDF: 43.2/40

In: -760.217 $\pm$ 1773.054 χ^2 /NDF:30.9/41

Out: -2392.556 $\pm$ 1507.718 χ^2 /NDF:58.5/46

All: -1707.546 $\pm$ 1148.591 χ^2 /NDF: 89.9/88

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7340.783 $\pm$ 1.976 χ^2 /NDF: 557570.6/18

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF: 3087200.5/24

Right Out: 5570.744 $\pm$ 1.556 χ^2 /NDF: 4123612.9/21

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

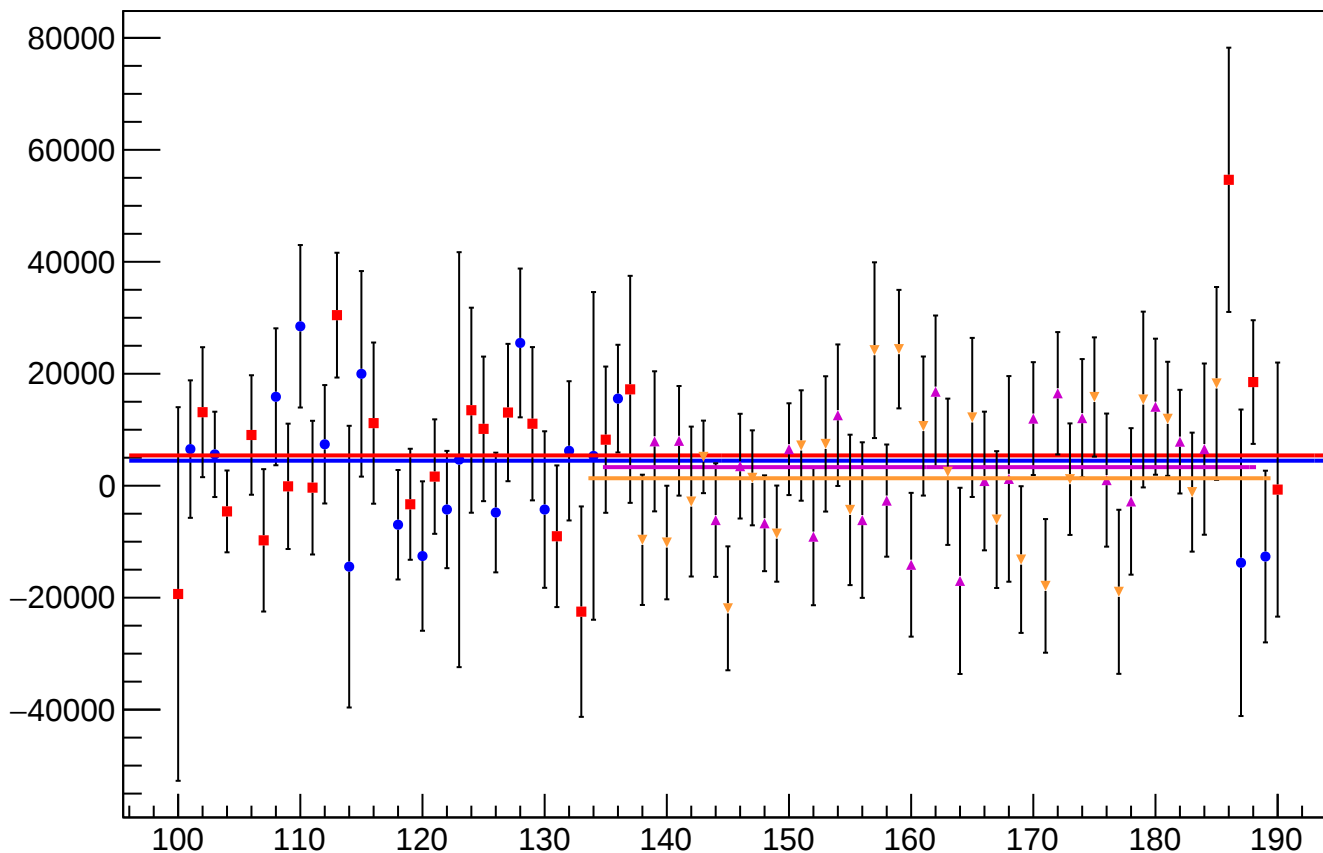
Right: 6248.284 $\pm$ 1.223 χ^2 /NDF: 5176380.3/40

In: 8573.203 $\pm$ 1.254 χ^2 /NDF: 2351198.8/41

Out: 7103.989 $\pm$ 1.066 χ^2 /NDF: 9039972.9/46

All: 7720.544 $\pm$ 0.812 χ^2 /NDF: 12188150.2/86

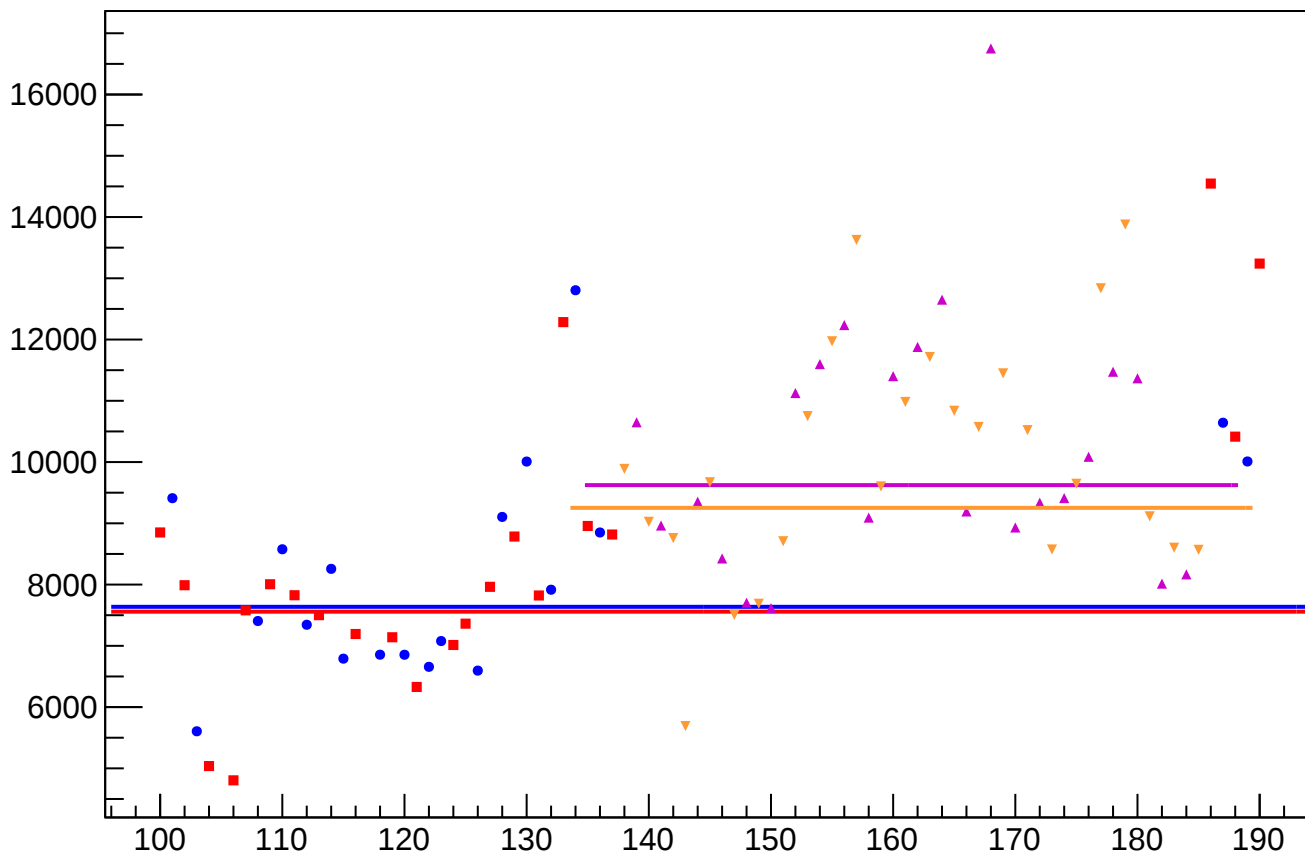
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4467.701 $\pm$ 2908.361 χ^2 /NDF: 15.4/18
Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF: 28.0/24
Right Out: 5409.011 $\pm$ 2674.047 χ^2 /NDF: 21.6/21
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: 4977.797 $\pm$ 1968.469 χ^2 /NDF: 37.1/40
In: 3770.192 $\pm$ 1825.302 χ^2 /NDF: 29.2/41
Out: 2990.414 $\pm$ 1705.219 χ^2 /NDF: 51.0/46
All: 3353.811 $\pm$ 1246.063 χ^2 /NDF: 80.4/88

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7637.099+/-2.056 χ^2/NDF : 505585.2/18

Left Out: 9252.712+/-1.565 χ^2/NDF : 1597668.9/24

Right Out: 7557.799+/-1.891 χ^2/NDF : 1028103.6/21

Left In: 9623.485+/-1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467+/-1.138 χ^2/NDF : 2694036.4/47

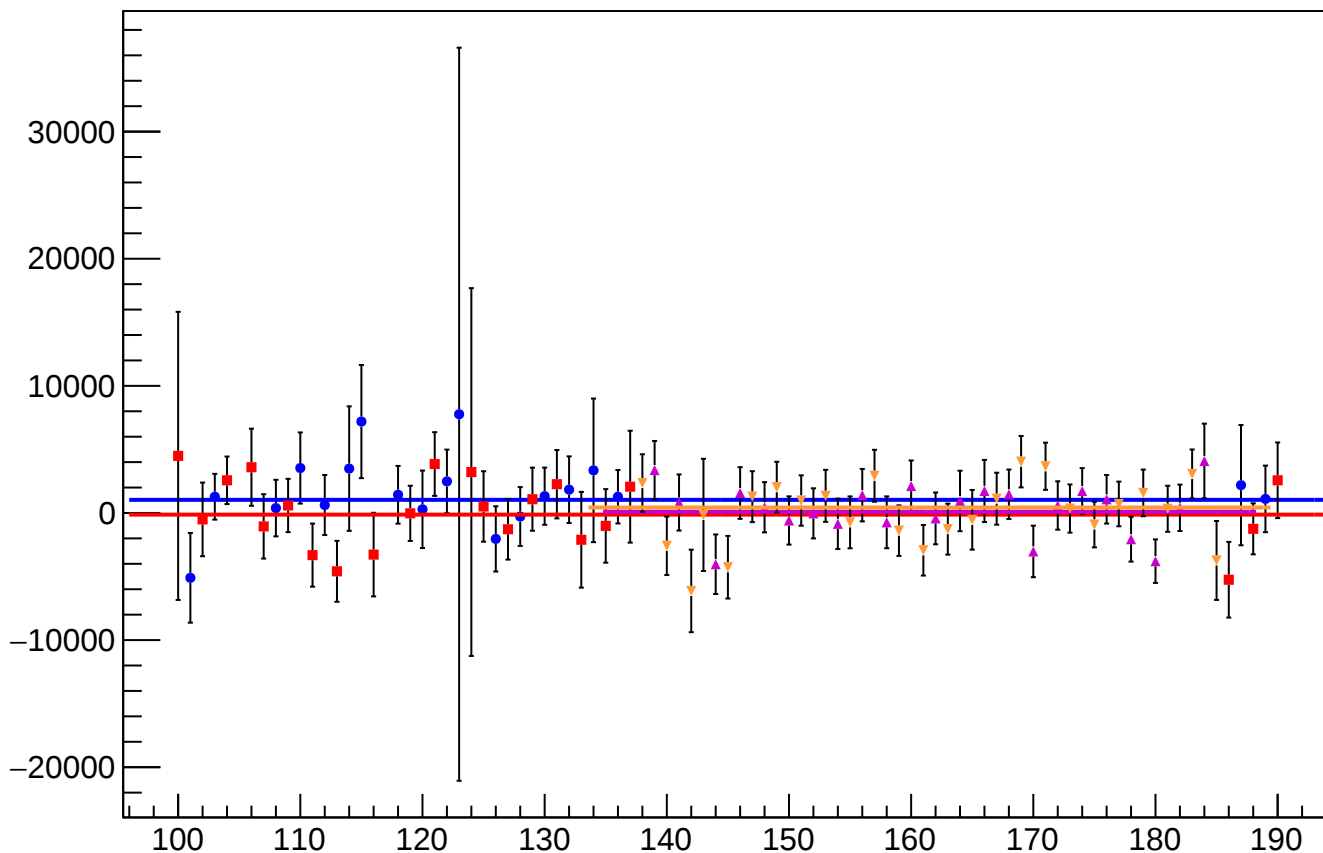
Right: 7594.123+/-1.392 χ^2/NDF : 1534494.7/40

In: 8841.048+/-1.291 χ^2/NDF : 2141001.9/41

Out: 8563.377+/-1.206 χ^2/NDF : 3102595.8/46

All: 8692.774+/-0.881 χ^2/NDF : 5268313.0/88

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1033.509 $\pm$ 622.243 χ^2 /NDF: 8.7/18

Left Out: 429.447 $\pm$ 416.378 χ^2 /NDF: 28.7/24

Right Out: -129.138 $\pm$ 574.257 χ^2 /NDF: 18.7/21

Left In: 88.373 $\pm$ 421.957 χ^2 /NDF: 21.0/22

Left: 261.180 $\pm$ 296.376 χ^2 /NDF: 50.0/47

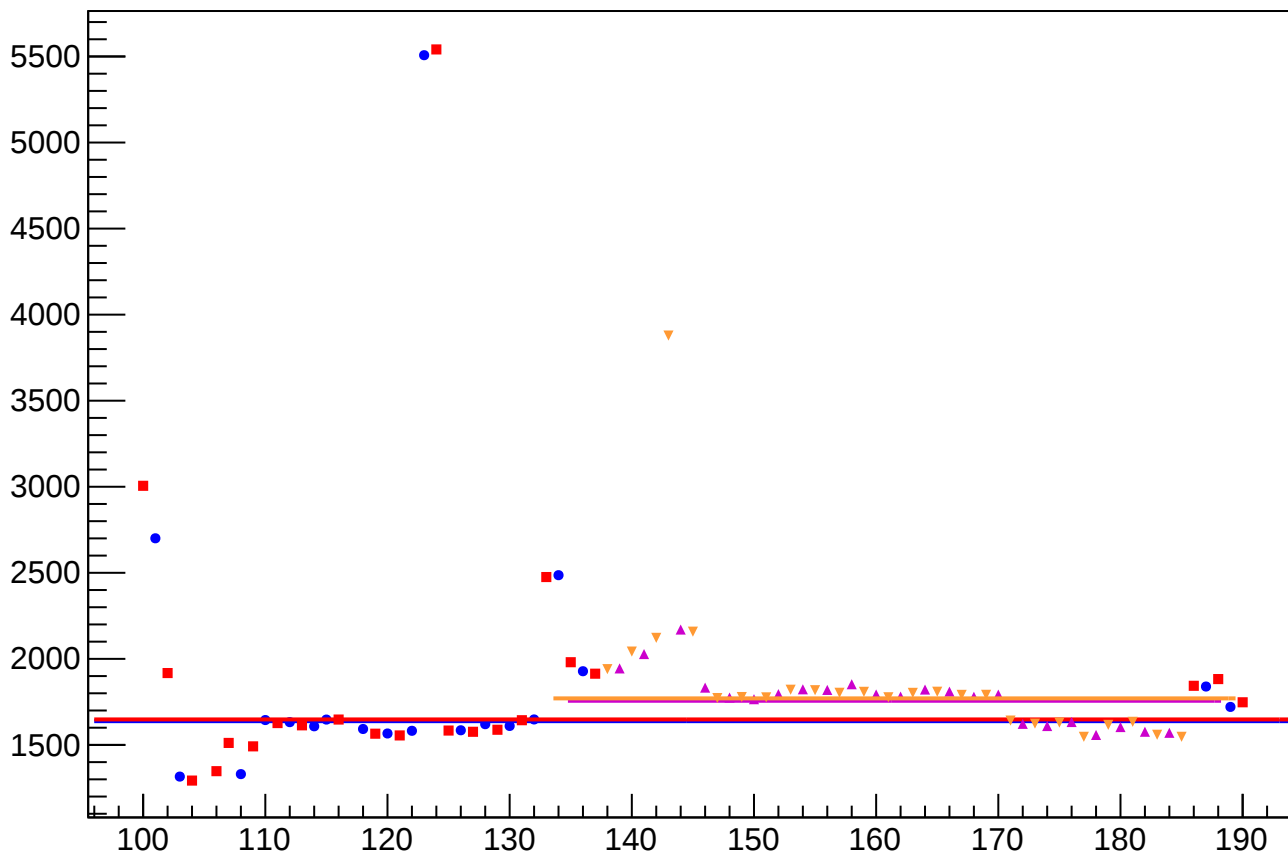
Right: 405.632 $\pm$ 422.007 χ^2 /NDF: 29.3/40

In: 386.089 $\pm$ 349.232 χ^2 /NDF: 31.2/41

Out: 236.972 $\pm$ 337.092 χ^2 /NDF: 48.0/46

All: 308.894 $\pm$ 242.538 χ^2 /NDF: 79.3/88

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1638.005+/-0.440 χ^2/NDF : 412736.4/18

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1648.104+/-0.406 χ^2/NDF : 478206.9/21

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

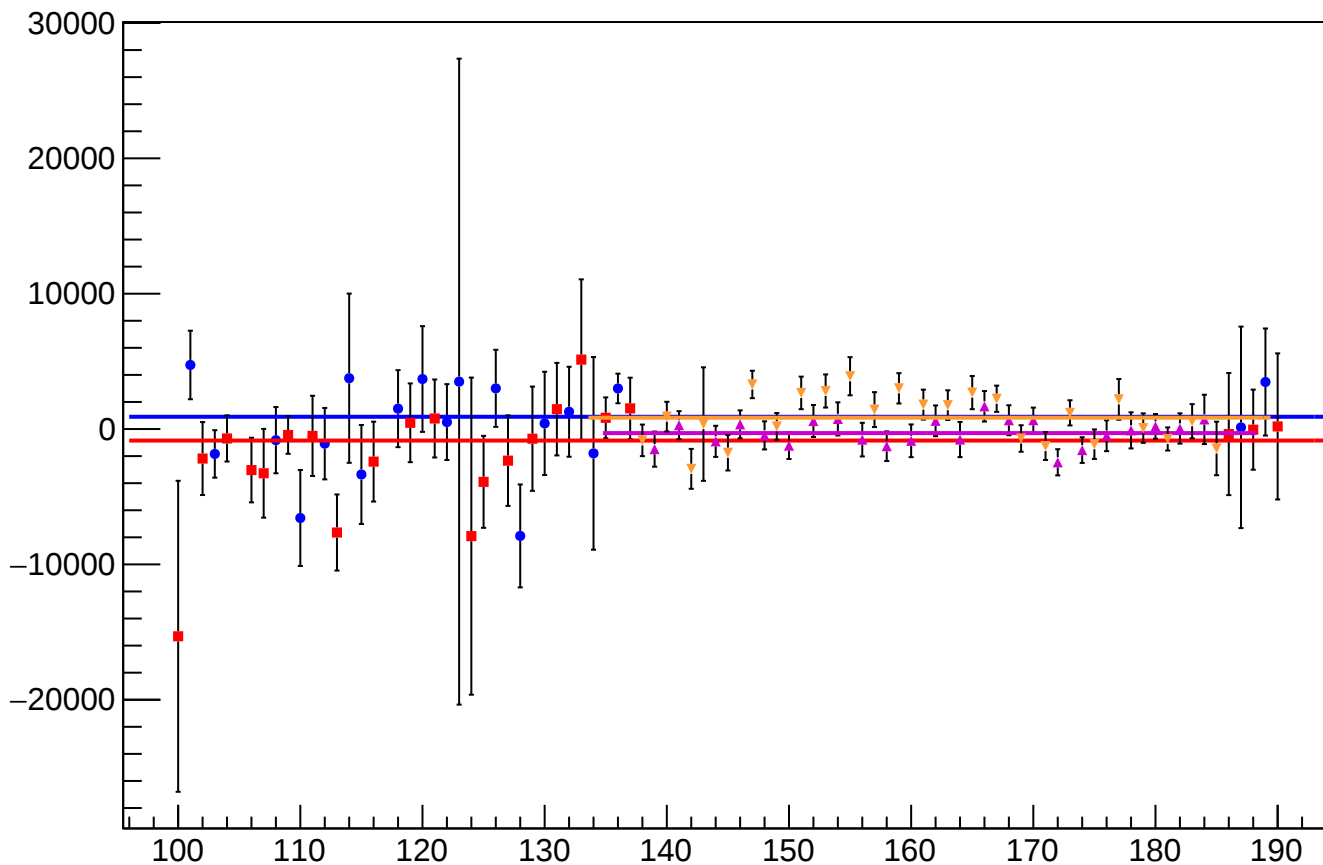
Right: 1643.459+/-0.298 χ^2/NDF : 891227.7/40

In: 1719.259+/-0.247 χ^2/NDF : 685599.3/41

Out: 1728.249+/-0.238 χ^2/NDF : 1237180.0/46

All: 1723.913+/-0.172 χ^2/NDF : 1923465.4/88

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 906.579+/-622.640 χ^2/NDF : 22.6/18

Left Out: 839.344+/-230.465 χ^2/NDF :54.4/24

Right Out: -850.321+/-571.119 χ^2/NDF : 15.3/21

Left In: -298.801+/-231.400 χ^2/NDF :18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

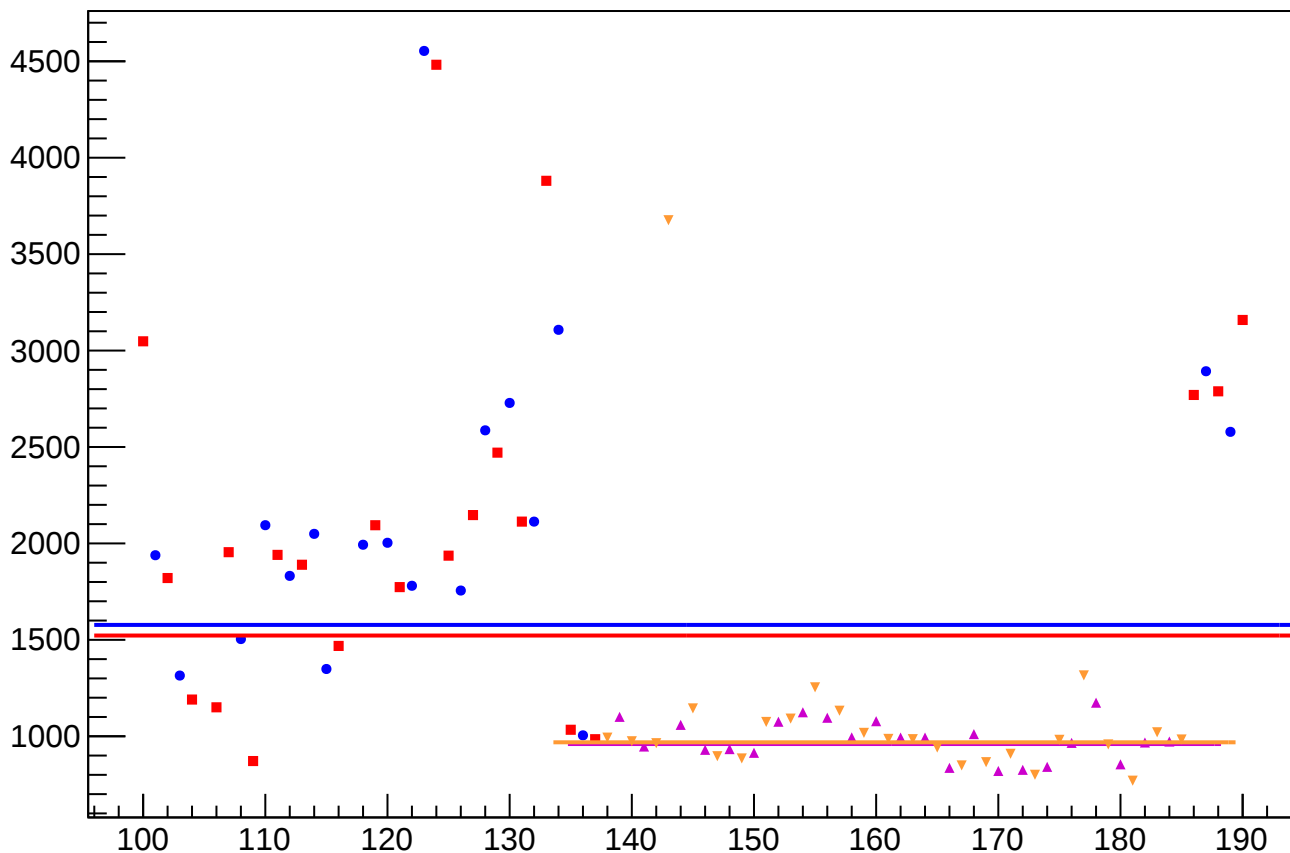
Right: -47.555+/-420.879 χ^2/NDF : 42.2/40

In: -152.520+/-216.905 χ^2/NDF :44.2/41

Out: 602.731+/-213.720 χ^2/NDF :77.2/46

All: 230.690+/-152.236 χ^2/NDF : 127.5/88

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1577.436+/-0.440 χ^2/NDF : 1490057.1/18

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1522.357+/-0.404 χ^2/NDF : 2574065.6/21

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

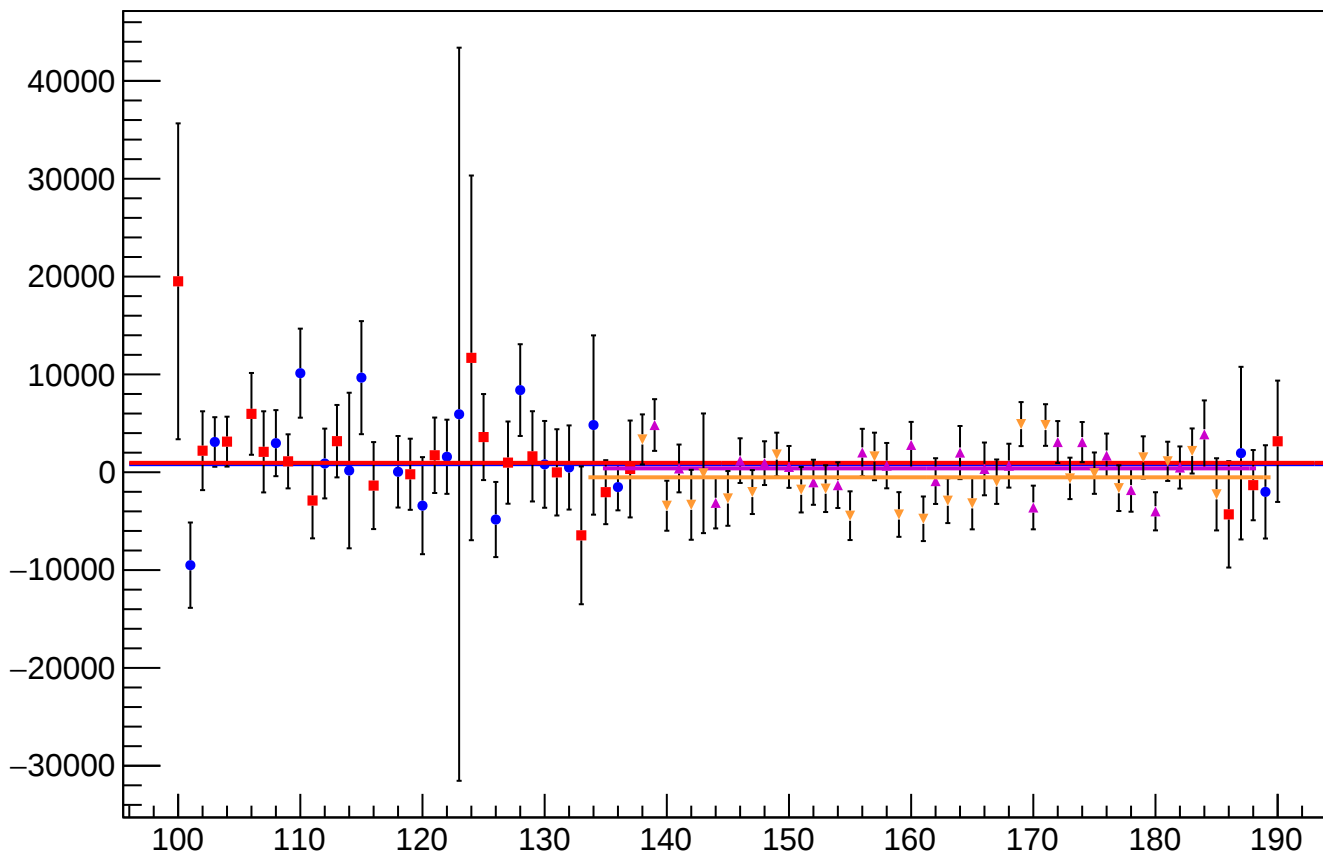
Right: 1547.524+/-0.298 χ^2/NDF : 4072622.1/40

In: 1034.758+/-0.153 χ^2/NDF : 3590397.4/41

Out: 1046.242+/-0.151 χ^2/NDF : 5584059.3/46

All: 1040.585+/-0.108 χ^2/NDF : 9177301.0/88

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 824.691 $\pm$ 945.569 χ^2/NDF : 20.5/18

Left Out: -517.719 $\pm$ 481.486 χ^2/NDF :34.0/24

Right Out: 960.376 $\pm$ 876.875 χ^2/NDF : 9.6/21

Left In: 397.398 $\pm$ 485.048 χ^2/NDF :21.8/22

Left: -63.533 $\pm$ 341.714 χ^2/NDF : 57.7/47

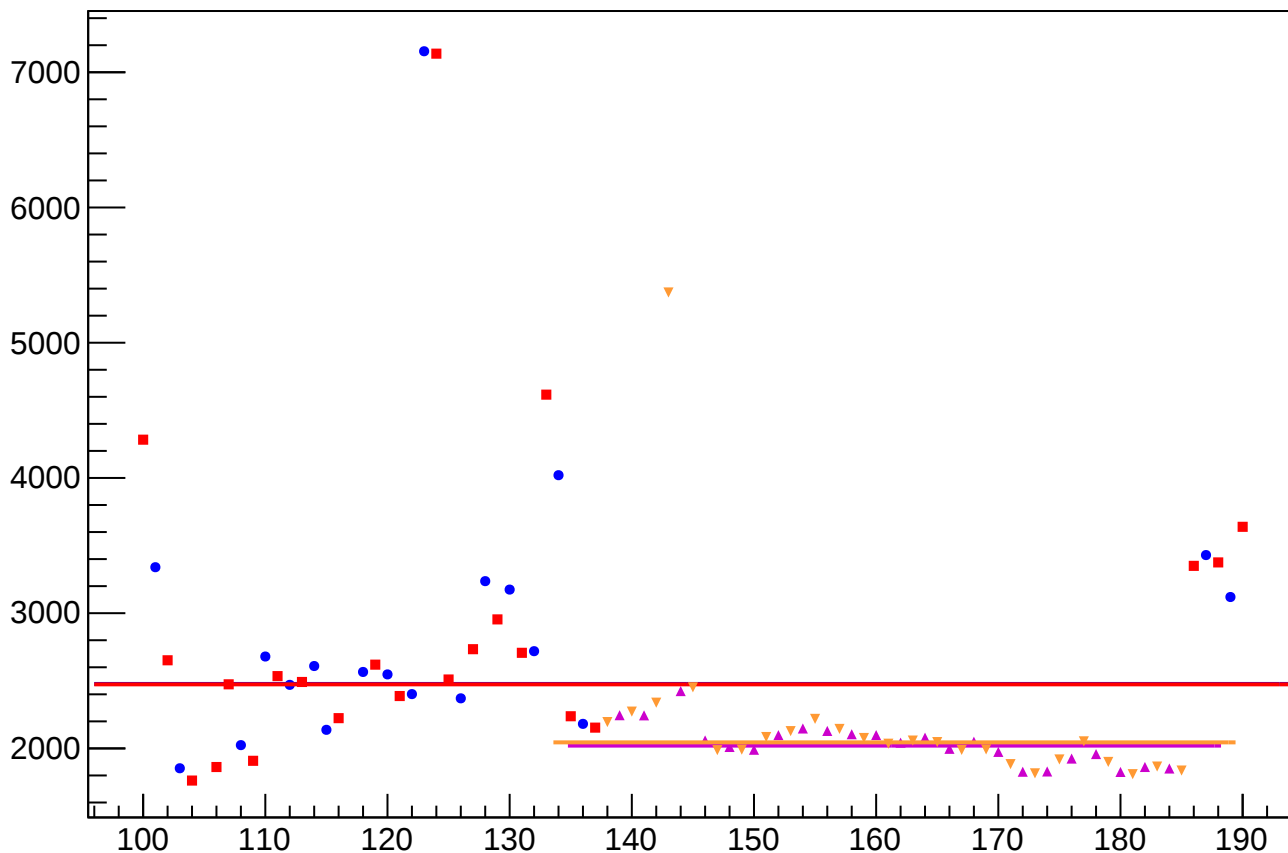
Right: 897.641 $\pm$ 642.959 χ^2/NDF : 30.1/40

In: 486.412 $\pm$ 431.578 χ^2/NDF :42.5/41

Out: -175.307 $\pm$ 422.047 χ^2/NDF :45.8/46

All: 148.165 $\pm$ 301.746 χ^2/NDF : 89.5/88

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2476.657 $\pm$ 0.669 χ^2 /NDF: 537751.8/18

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2473.793 $\pm$ 0.620 χ^2 /NDF: 935149.7/21

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

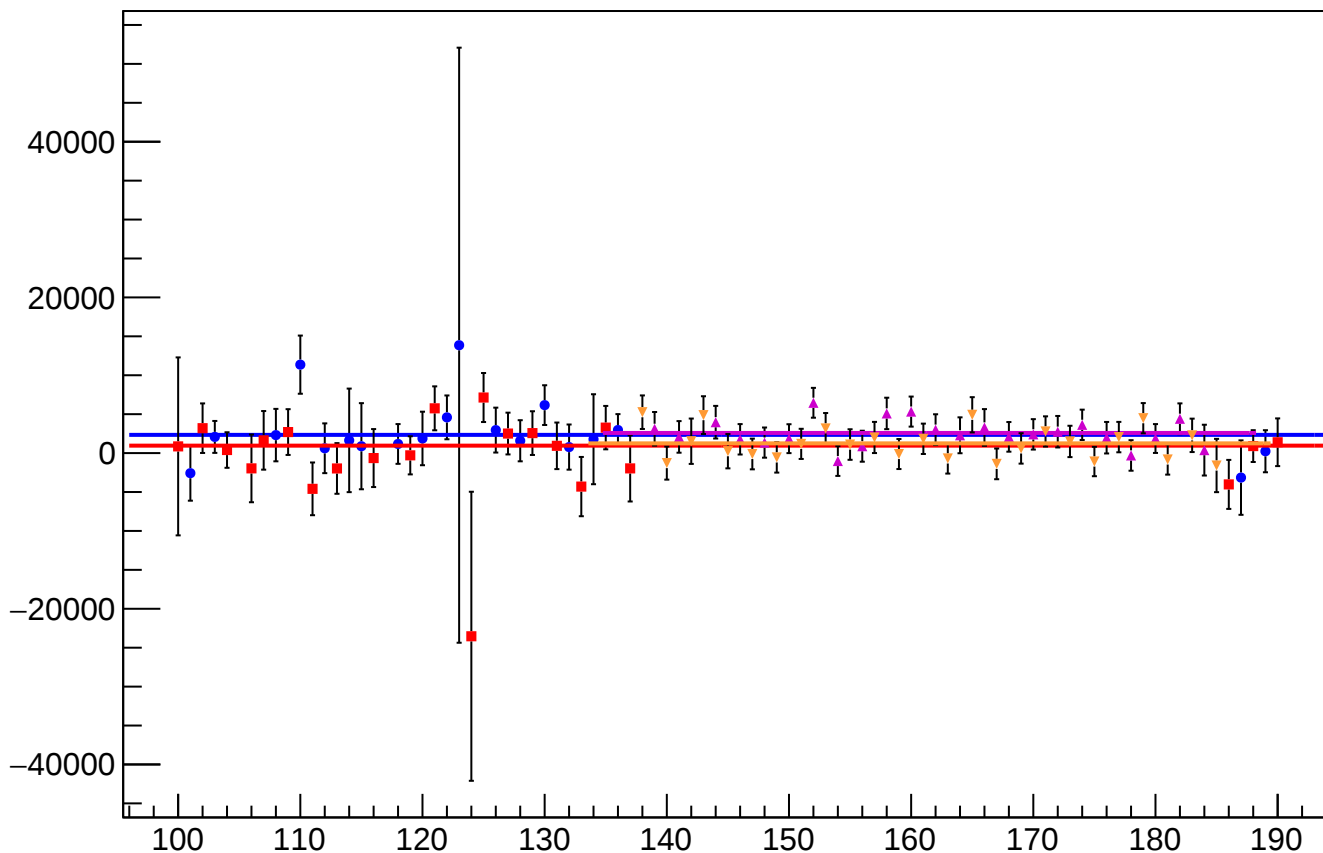
Right: 2475.117 $\pm$ 0.455 χ^2 /NDF: 1472911.4/40

In: 2115.766 $\pm$ 0.305 χ^2 /NDF: 1079255.0/41

Out: 2144.120 $\pm$ 0.298 χ^2 /NDF: 2091787.1/46

All: 2130.260 $\pm$ 0.213 χ^2 /NDF: 3175454.9/88

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2340.801+/-710.375 χ^2/NDF : 13.8/18

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 957.139+/-664.533 χ^2/NDF : 20.1/21

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

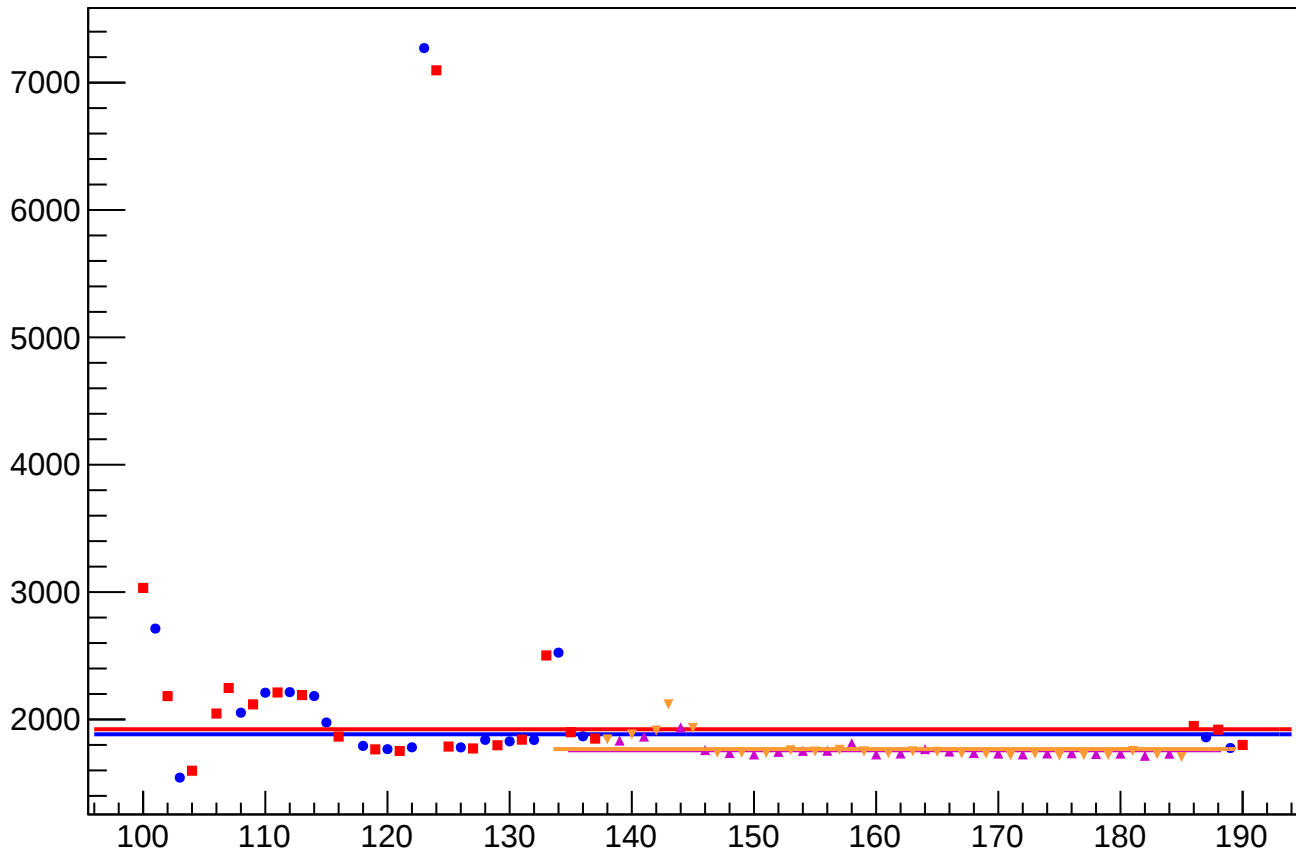
Right: 1602.887+/-485.293 χ^2/NDF : 35.9/40

In: 2522.844+/-362.499 χ^2/NDF : 31.4/41

Out: 1168.487+/-350.460 χ^2/NDF : 43.2/46

All: 1822.803+/-251.961 χ^2/NDF : 81.8/88

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1883.600+/-0.502 χ^2/NDF : 291233.9/18

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1923.062+/-0.469 χ^2/NDF : 363774.9/21

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

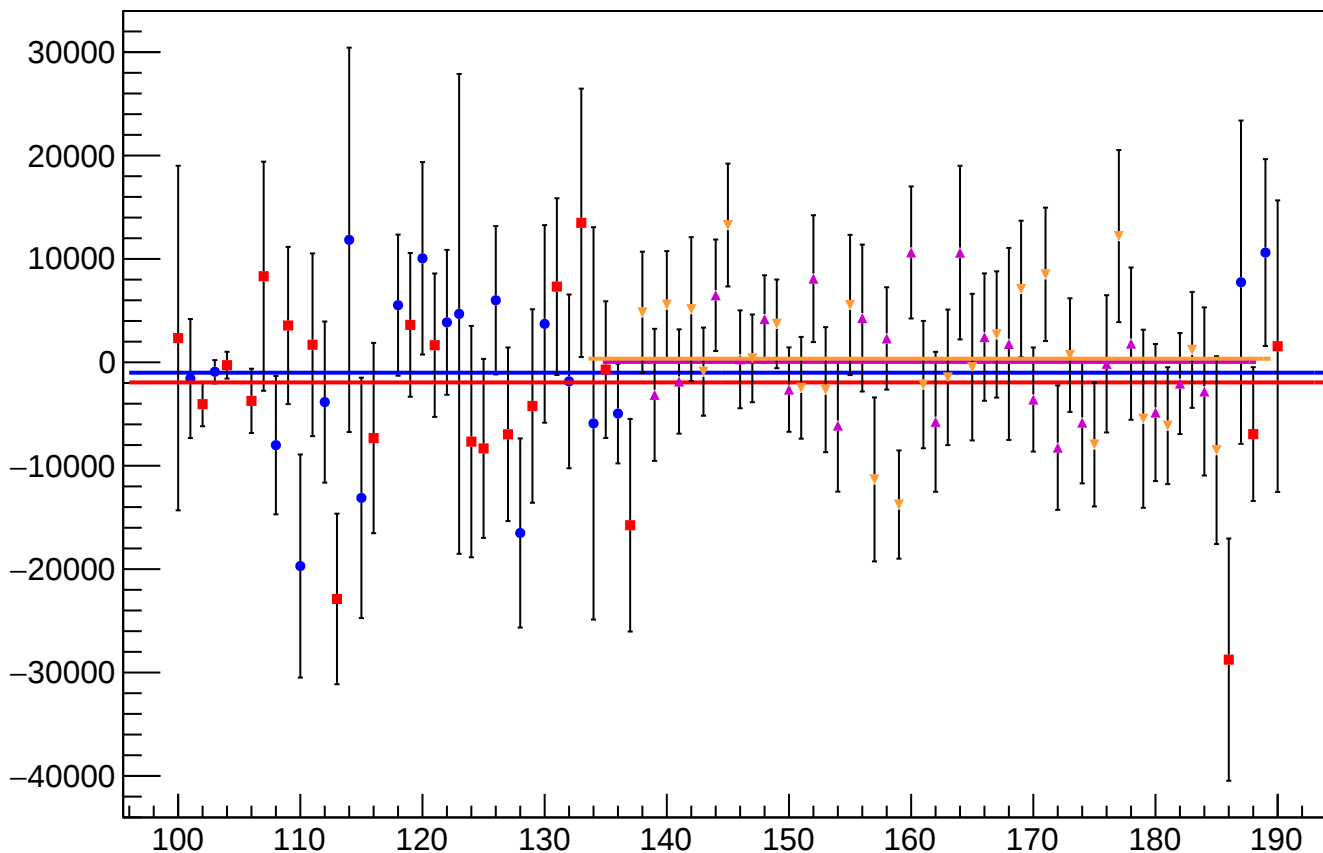
Right: 1904.670+/-0.343 χ^2/NDF : 658304.1/40

In: 1790.762+/-0.256 χ^2/NDF : 367225.5/41

Out: 1810.858+/-0.248 χ^2/NDF : 520693.6/46

All: 1801.153+/-0.178 χ^2/NDF : 891097.0/88

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1002.385 $\pm$ 977.533 χ^2 /NDF: 15.5/18

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -1942.661 $\pm$ 927.278 χ^2 /NDF: 23.8/21

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

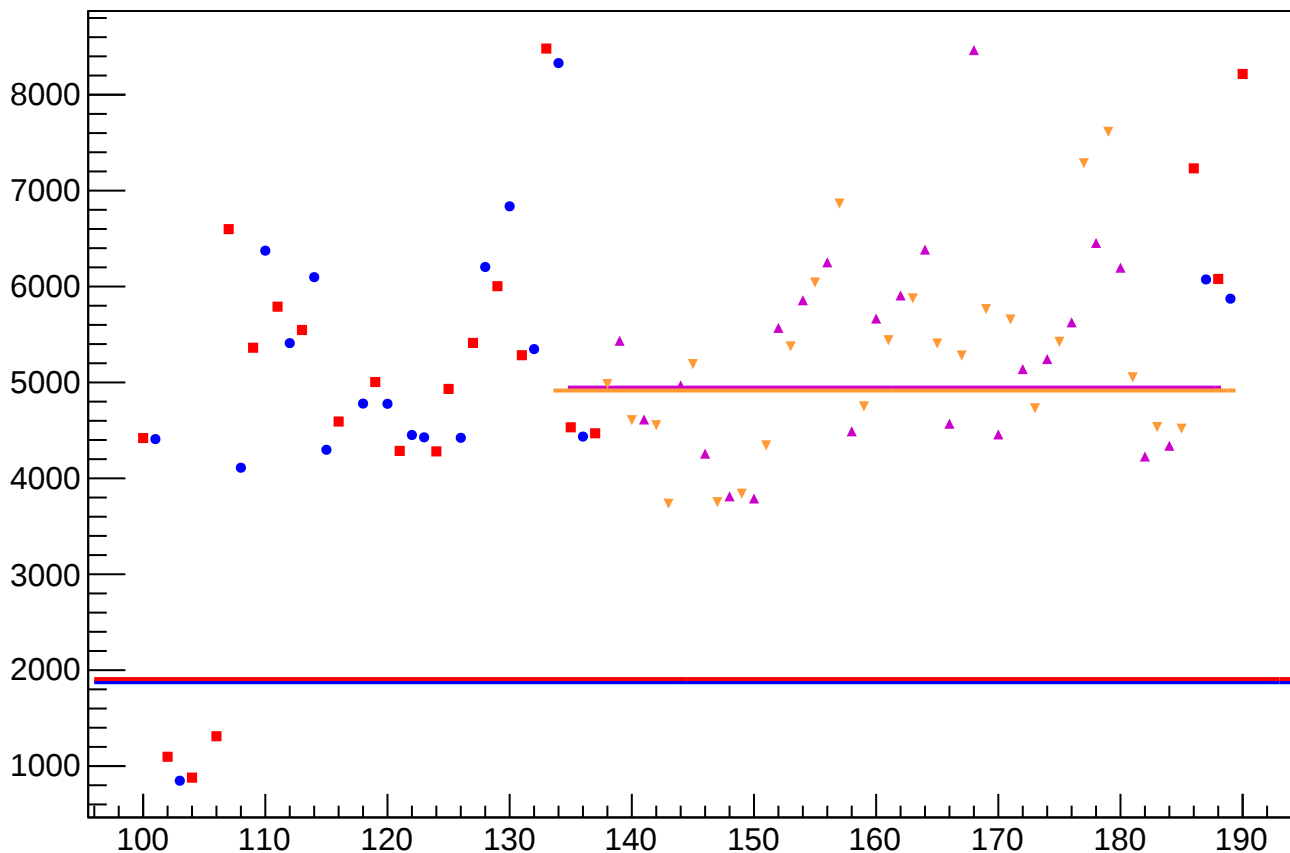
Right: -1497.314 $\pm$ 672.750 χ^2 /NDF: 39.8/40

In: -589.450 $\pm$ 759.770 χ^2 /NDF:31.9/41

Out: -1057.732 $\pm$ 726.730 χ^2 /NDF:54.0/46

All: -833.994 $\pm$ 525.168 χ^2 /NDF: 86.1/88

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1874.316+/-0.691 χ^2/NDF : 6983152.7/18

Left Out: 4915.865+/-0.827 χ^2/NDF :1186479.7/24

Right Out: 1907.240+/-0.656 χ^2/NDF : 7992049.0/21

Left In: 4945.817+/-0.854 χ^2/NDF :1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

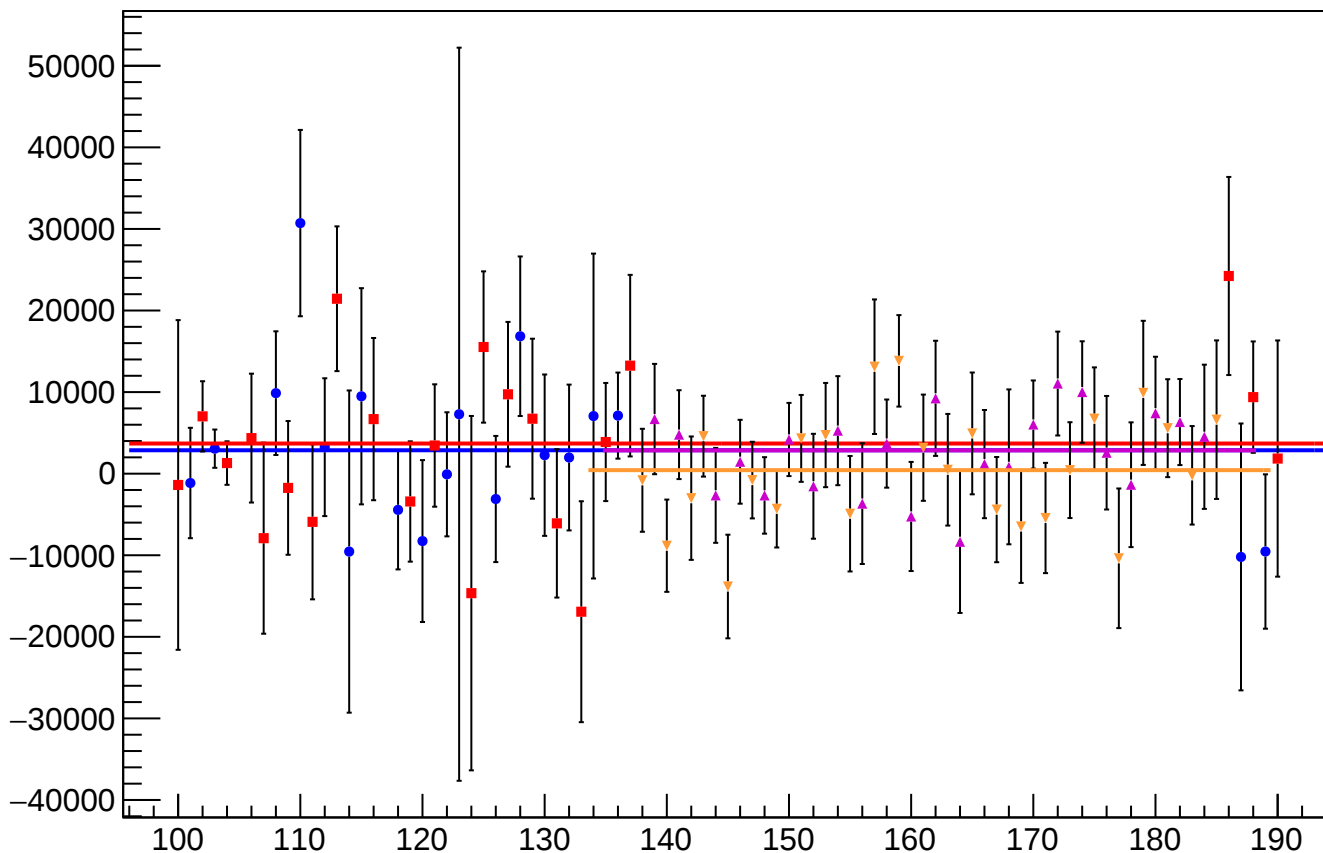
Right: 1891.646+/-0.476 χ^2/NDF : 14976395.9/40

In: 3090.355+/-0.537 χ^2/NDF :15988884.2/41

Out: 3067.899+/-0.514 χ^2/NDF :17300888.2/46

All: 3078.628+/-0.371 χ^2/NDF : 33290684.8/8

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2868.660+/-1579.089 χ^2/NDF : 15.9/18

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3695.313+/-1543.513 χ^2/NDF : 19.6/21

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

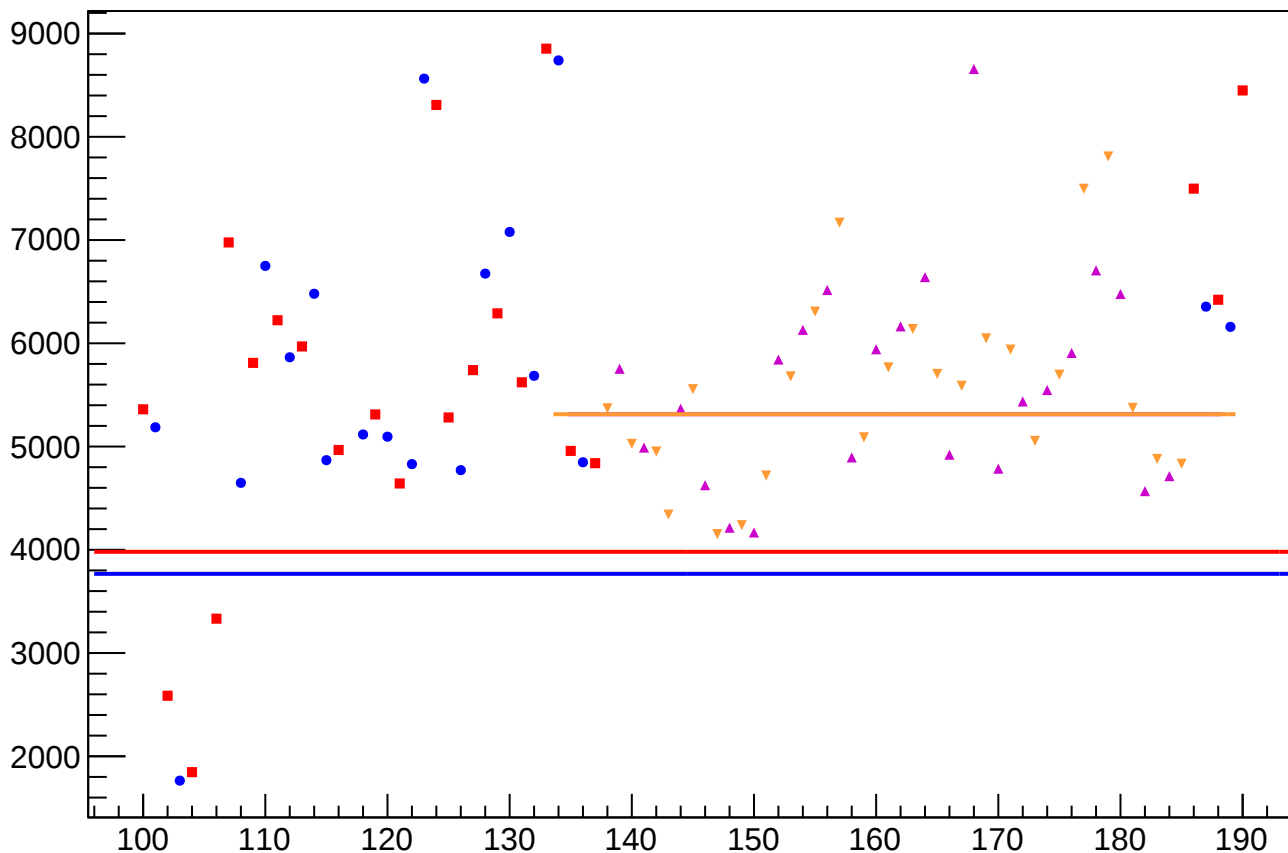
Right: 3291.403+/-1103.792 χ^2/NDF : 35.7/40

In: 2863.624+/-1000.099 χ^2/NDF : 28.8/41

Out: 1734.153+/-975.273 χ^2/NDF : 49.4/46

All: 2284.696+/-698.234 χ^2/NDF : 78.9/88

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3766.997 $\pm$ 1.117 χ^2/NDF : 2964953.1/18

Left Out: 5313.008 $\pm$ 0.890 χ^2/NDF : 894369.8/24

Right Out: 3980.603 $\pm$ 1.085 χ^2/NDF : 3355133.7/21

Left In: 5312.861 $\pm$ 0.914 χ^2/NDF : 957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2/NDF : 1851770.5/47

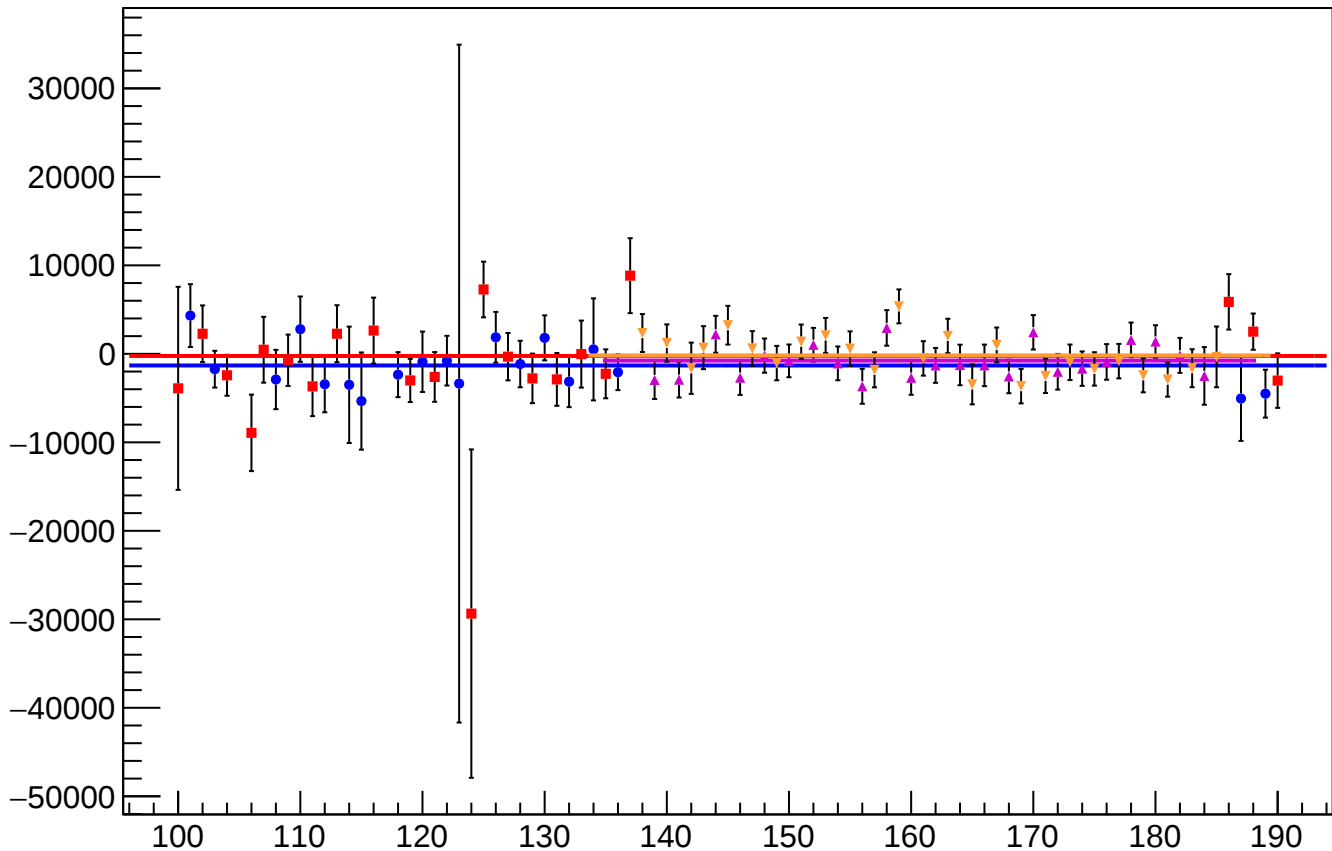
Right: 3876.890 $\pm$ 0.778 χ^2/NDF : 6338914.7/40

In: 4692.786 $\pm$ 0.707 χ^2/NDF : 5070243.0/41

Out: 4777.121 $\pm$ 0.688 χ^2/NDF : 5151468.7/46

All: 4736.117 $\pm$ 0.493 χ^2/NDF : 10229018.9/8

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1314.364+/-708.443 χ^2/NDF : 10.7/18

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: -239.368+/-663.127 χ^2/NDF : 31.3/21

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

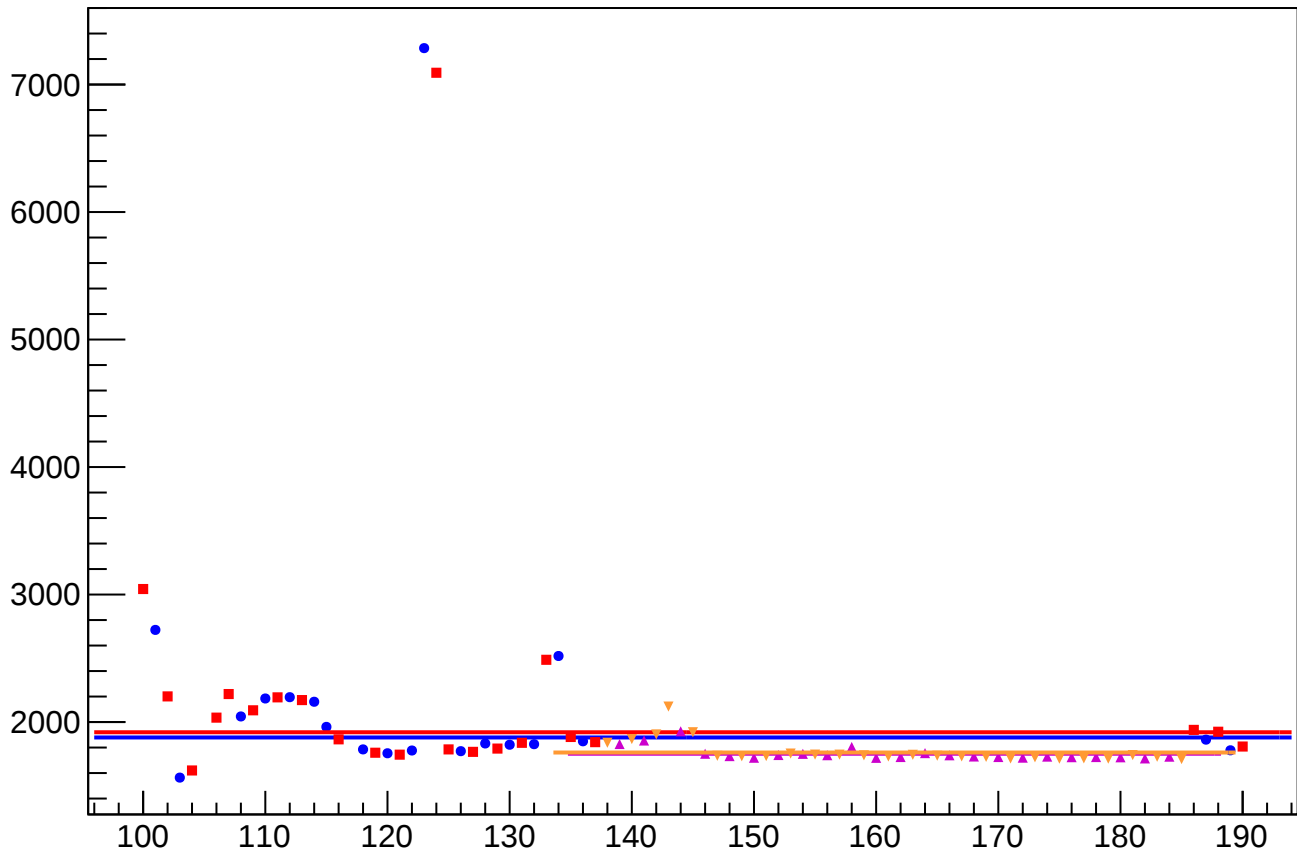
Right: -741.388+/-484.130 χ^2/NDF : 43.2/40

In: -903.940+/-361.221 χ^2/NDF : 31.4/41

Out: -196.326+/-349.328 χ^2/NDF : 60.6/46

All: -538.292+/-251.112 χ^2/NDF : 94.0/88

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1879.043 $\pm$ 0.501 χ^2/NDF : 282189.9/18

Left Out: 1761.091 $\pm$ 0.291 χ^2/NDF : 77468.5/24

Right Out: 1919.939 $\pm$ 0.468 χ^2/NDF : 352366.7/21

Left In: 1751.418 $\pm$ 0.297 χ^2/NDF : 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2/NDF : 106589.3/47

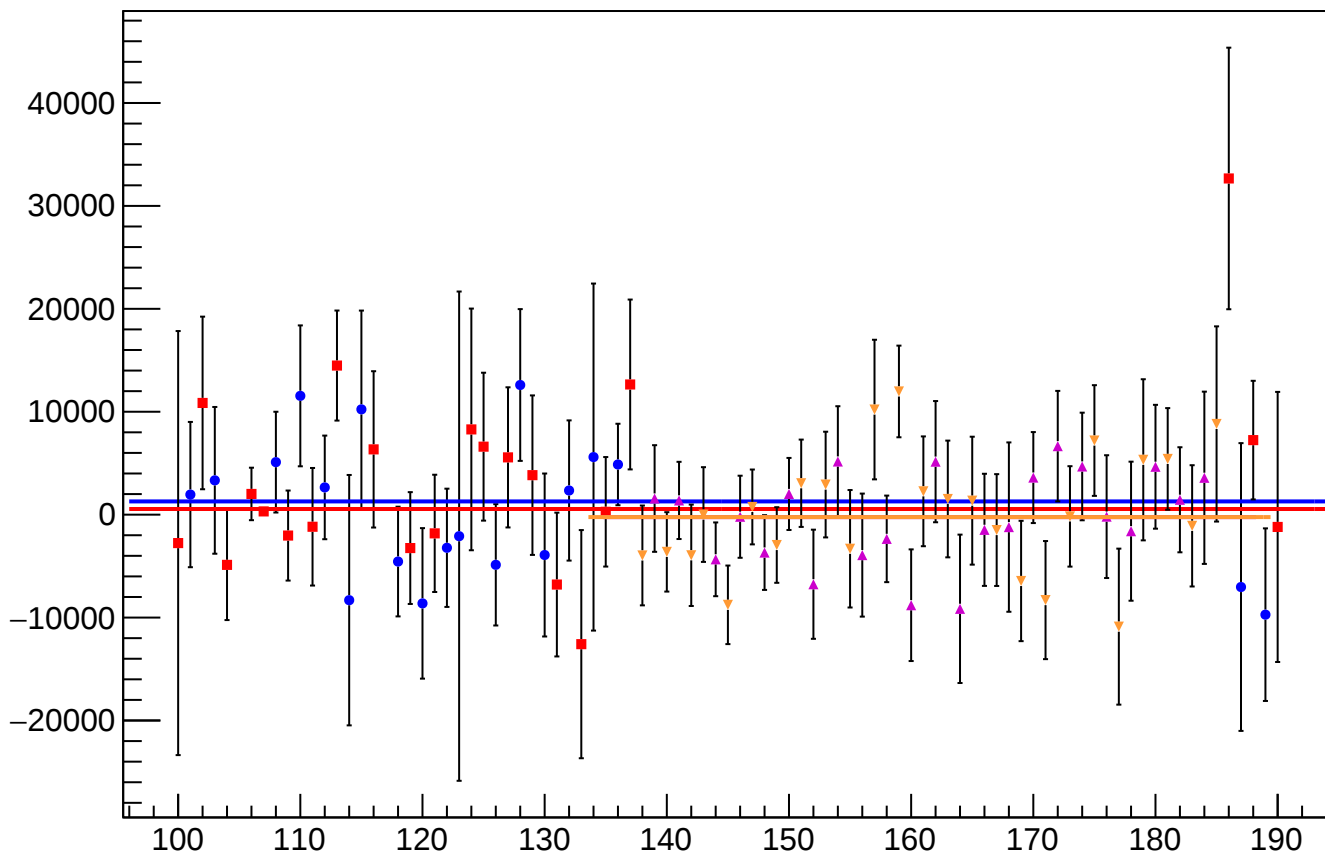
Right: 1900.866 $\pm$ 0.342 χ^2/NDF : 638113.0/40

In: 1784.598 $\pm$ 0.255 χ^2/NDF : 358801.8/41

Out: 1805.253 $\pm$ 0.247 χ^2/NDF : 512901.7/46

All: 1795.274 $\pm$ 0.178 χ^2/NDF : 875083.8/88

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1286.861+/-1548.151 χ^2/NDF : 15.0/18

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: 549.941+/-451.810 χ^2/NDF : 25.9/21

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

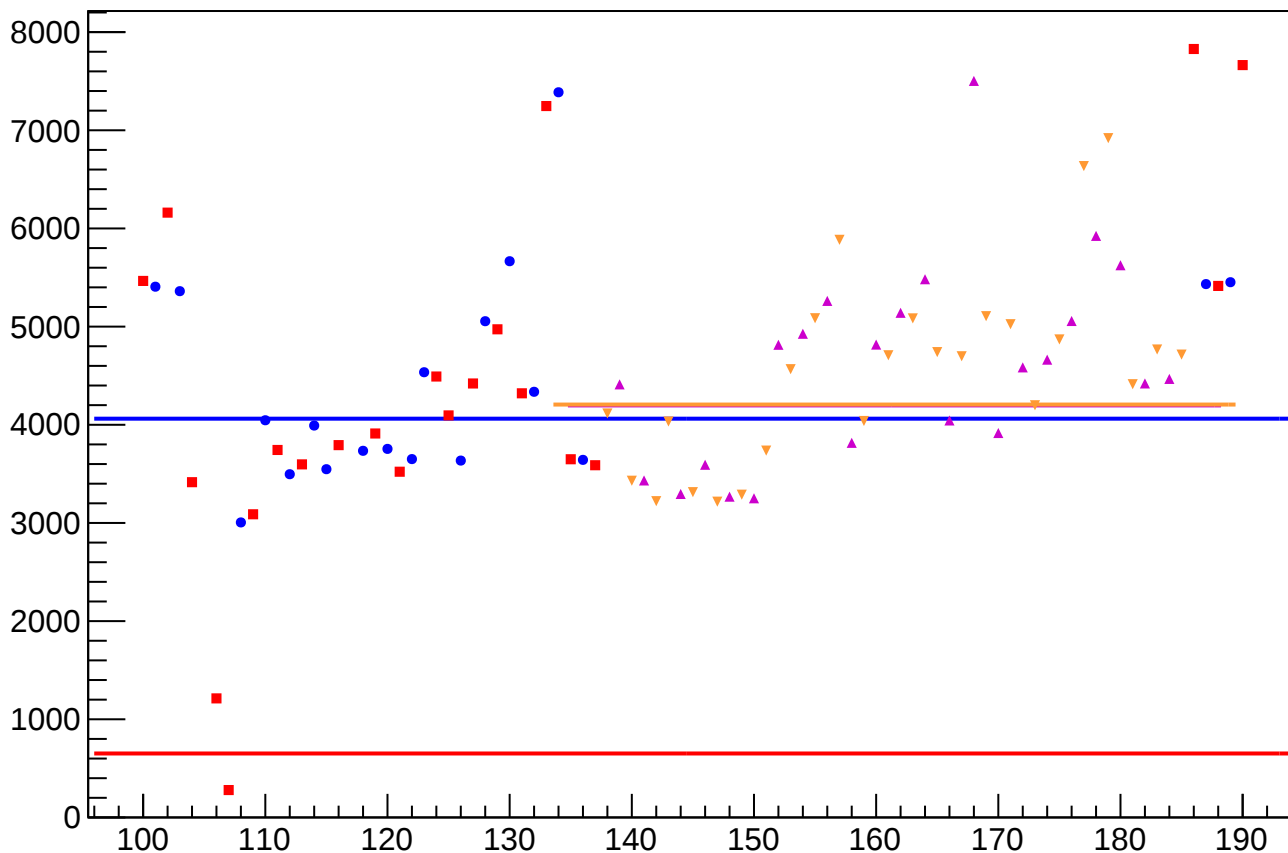
Right: 607.779+/-433.718 χ^2/NDF : 41.1/40

In: 228.313+/-856.904 χ^2/NDF : 31.0/41

Out: 417.868+/-412.093 χ^2/NDF : 55.3/46

All: 382.263+/-371.379 χ^2/NDF : 86.3/88

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4062.173+/-1.095

χ^2/NDF : 591942.3/18

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right: 919.344+/-0.307

χ^2/NDF : 22346347.6/40

Right Out: 651.670+/-0.319

χ^2/NDF : 12810187.6/21

In: 4155.879+/-0.606

χ^2/NDF : 2073518.7/41

Out: 1249.119+/-0.291

χ^2/NDF : 35058325.1/46

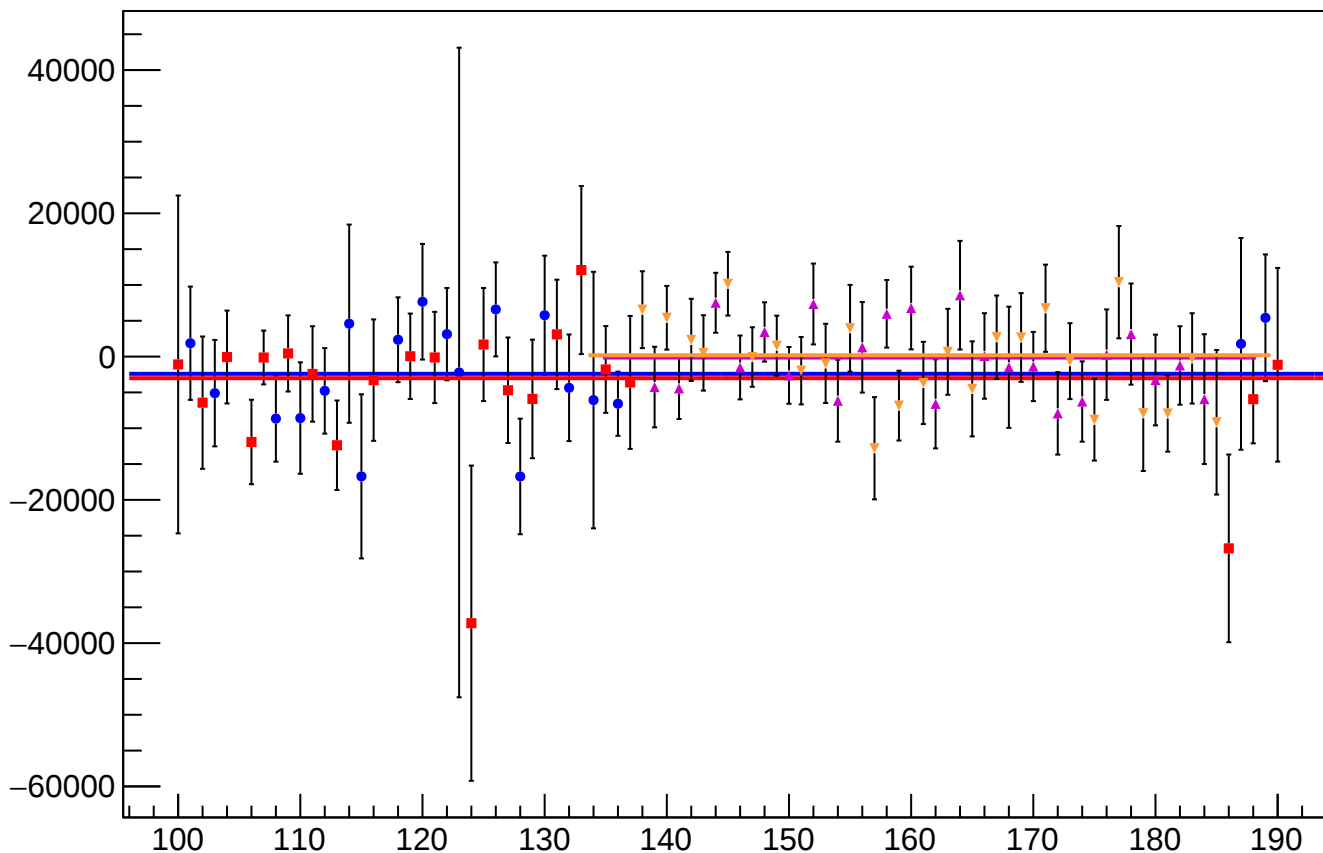
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1795.103+/-0.263

χ^2/NDF : 55822737.2/8

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2403.730+/-1743.446 χ^2/NDF : 14.9/18

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -3017.016+/-1508.806 χ^2/NDF : 15.2/21

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

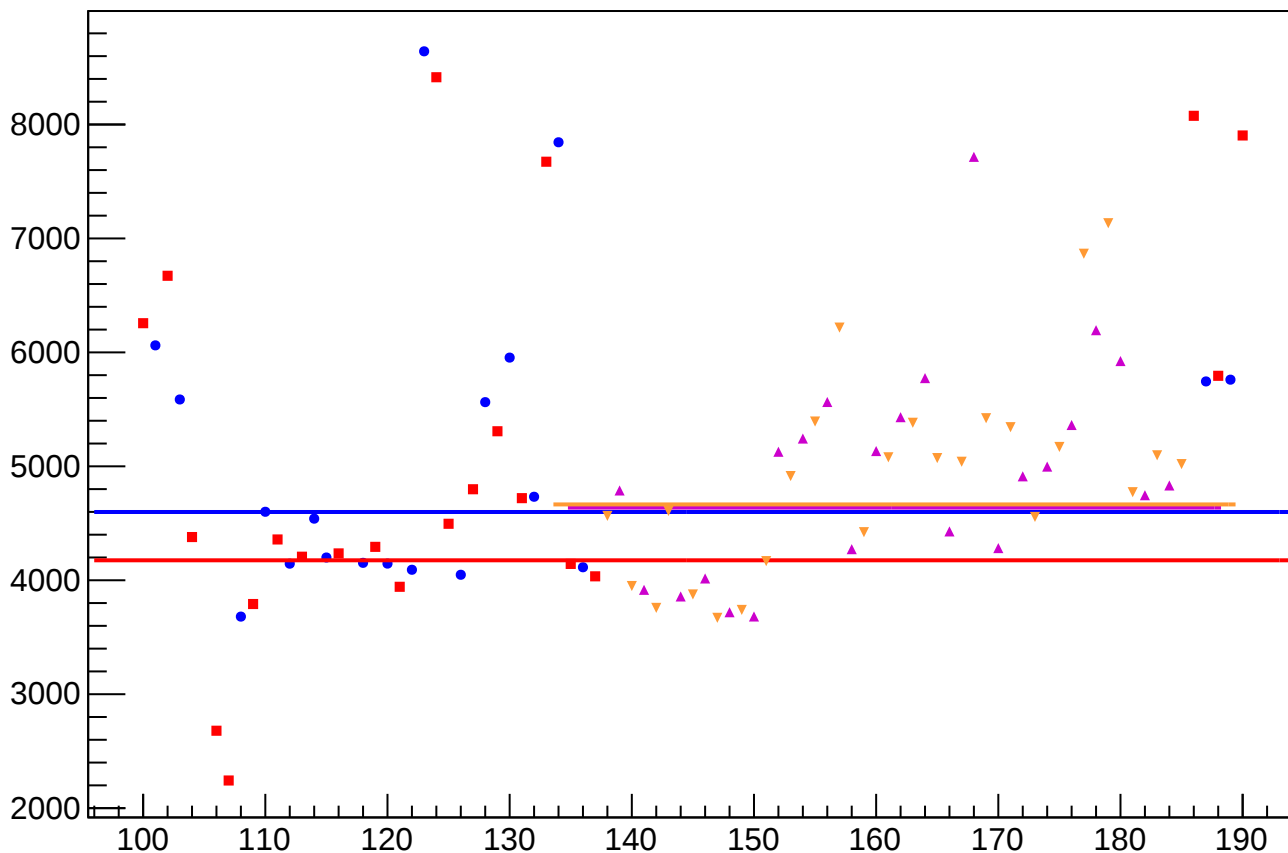
Right: -2754.391+/-1140.894 χ^2/NDF : 30.1/40

In: -807.589+/-948.042 χ^2/NDF : 34.7/41

Out: -932.229+/-892.459 χ^2/NDF : 43.1/46

All: -873.670+/-649.826 χ^2/NDF : 77.8/88

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4599.219+/-1.233 χ^2/NDF : 442299.0/18

Left Out: 4665.620+/-0.783 χ^2/NDF : 1017235.0/24

Right Out: 4175.208+/-1.061 χ^2/NDF : 1645918.0/21

Left In: 4637.777+/-0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

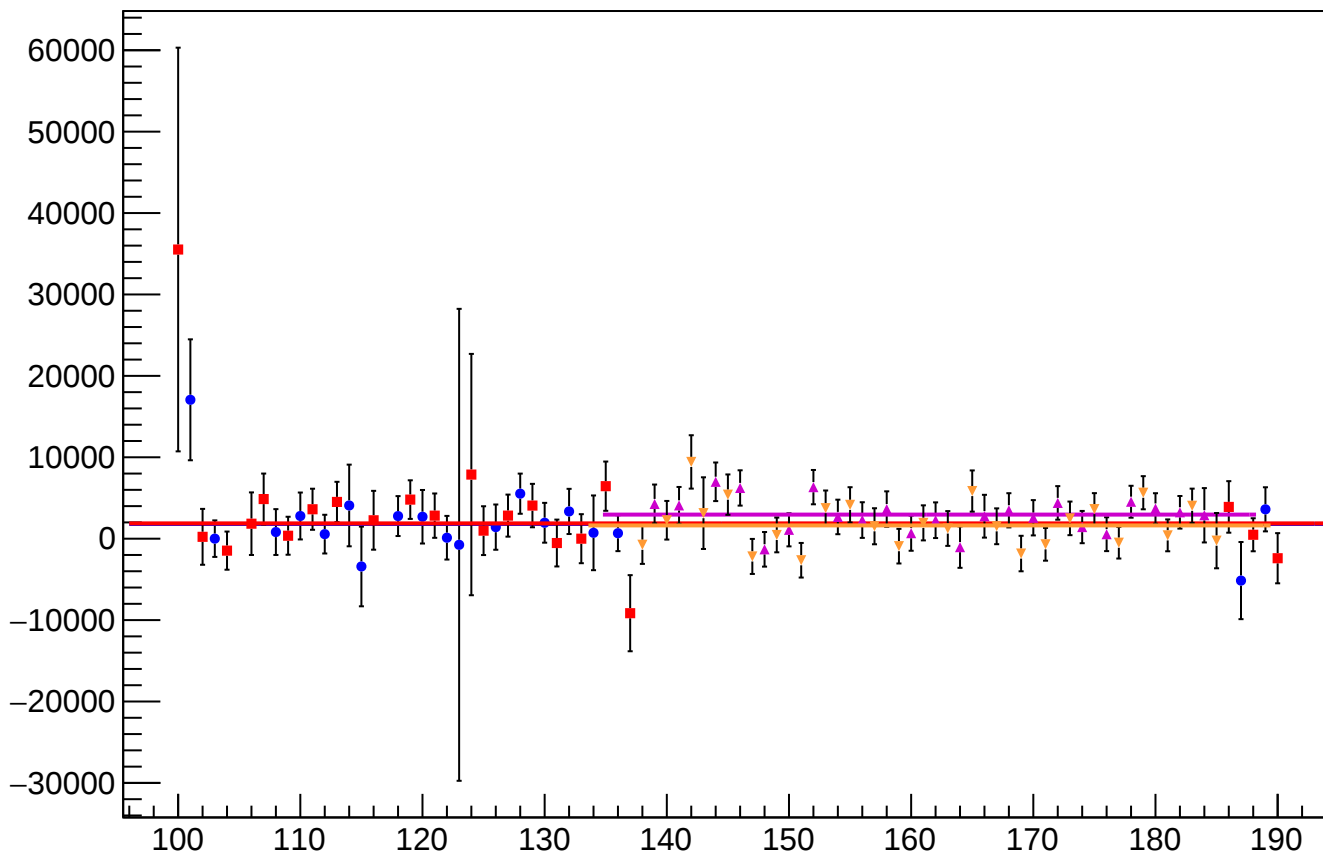
Right: 4355.560+/-0.804 χ^2/NDF : 2156195.7/40

In: 4626.376+/-0.670 χ^2/NDF : 1508205.1/41

Out: 4492.723+/-0.630 χ^2/NDF : 2801573.3/46

All: 4555.379+/-0.459 χ^2/NDF : 4330893.6/88

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1809.882 $\pm$ 682.522 χ^2 /NDF: 12.9/18

Left Out: 1630.035 $\pm$ 447.063 χ^2 /NDF: 35.4/24

Right Out: 1877.850 $\pm$ 623.432 χ^2 /NDF: 21.5/21

Left In: 2958.620 $\pm$ 453.688 χ^2 /NDF: 20.4/22

Left: 2284.557 $\pm$ 318.438 χ^2 /NDF: 60.2/47

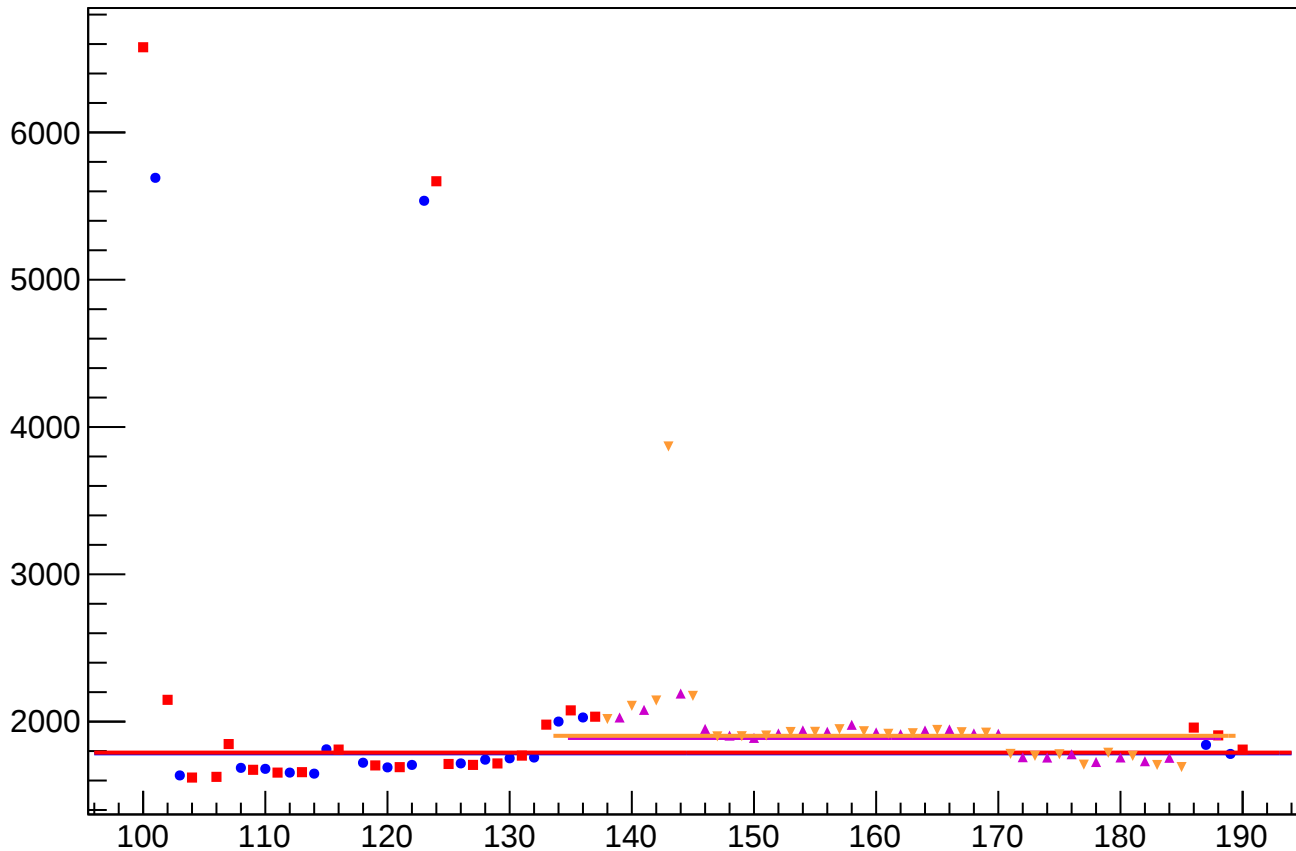
Right: 1846.935 $\pm$ 460.308 χ^2 /NDF: 34.4/40

In: 2606.590 $\pm$ 377.830 χ^2 /NDF: 35.3/41

Out: 1714.193 $\pm$ 363.306 χ^2 /NDF: 57.1/46

All: 2142.910 $\pm$ 261.880 χ^2 /NDF: 95.2/88

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1784.518 $\pm$ 0.483 χ^2/NDF : 644931.0/18

Left Out: 1903.618 $\pm$ 0.316 χ^2/NDF : 541575.7/24

Right Out: 1789.675 $\pm$ 0.438 χ^2/NDF : 320597.1/21

Left In: 1888.927 $\pm$ 0.321 χ^2/NDF : 126417.2/22

Left: 1896.381 $\pm$ 0.225 χ^2/NDF : 669056.9/47

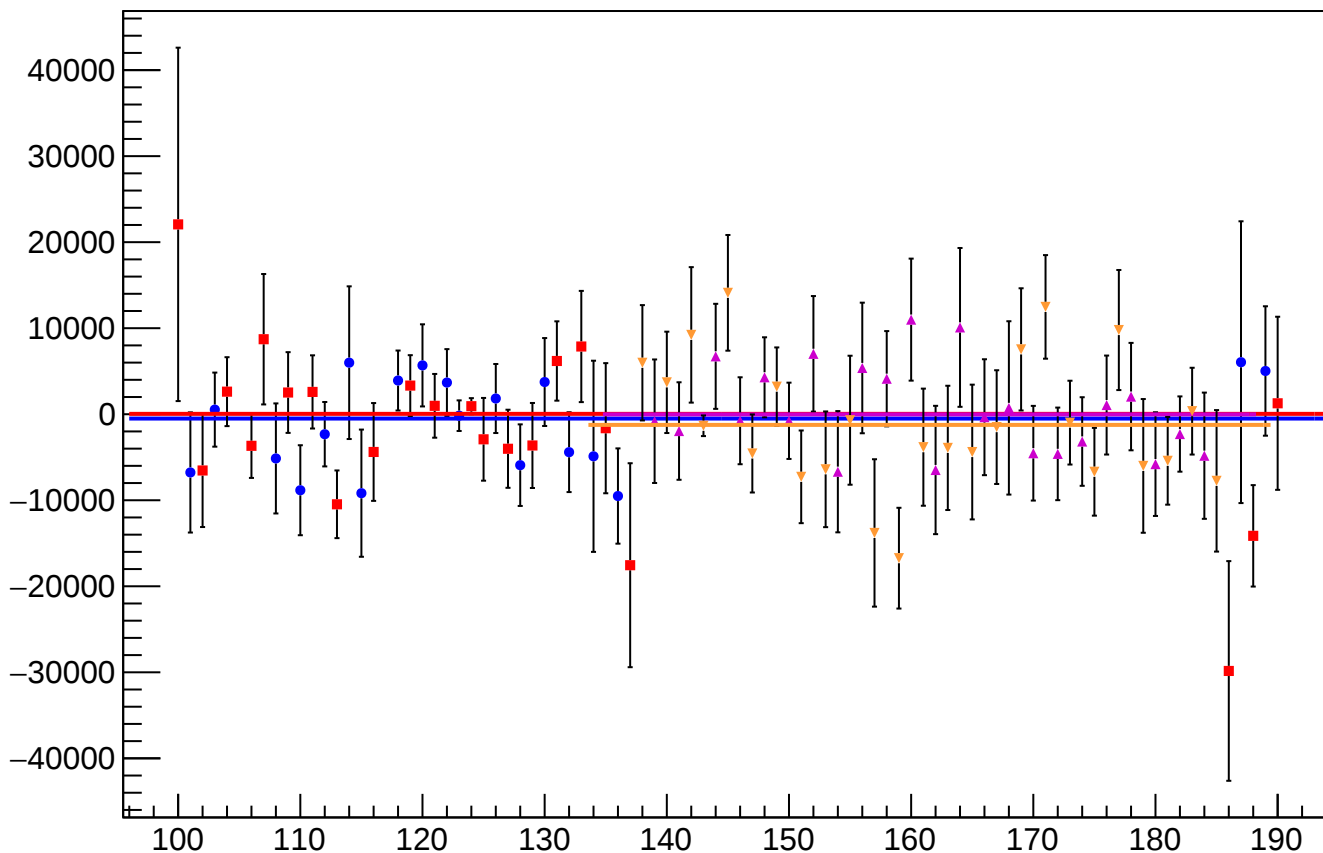
Right: 1787.344 $\pm$ 0.324 χ^2/NDF : 965590.6/40

In: 1856.931 $\pm$ 0.267 χ^2/NDF : 803808.1/41

Out: 1864.631 $\pm$ 0.256 χ^2/NDF : 906626.4/46

All: 1860.939 $\pm$ 0.185 χ^2/NDF : 1710867.0/88

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -503.380 ± 1000.107 $\chi^2/\text{NDF}: 17.1/18$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: 42.680 ± 717.462 $\chi^2/\text{NDF}: 33.6/21$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

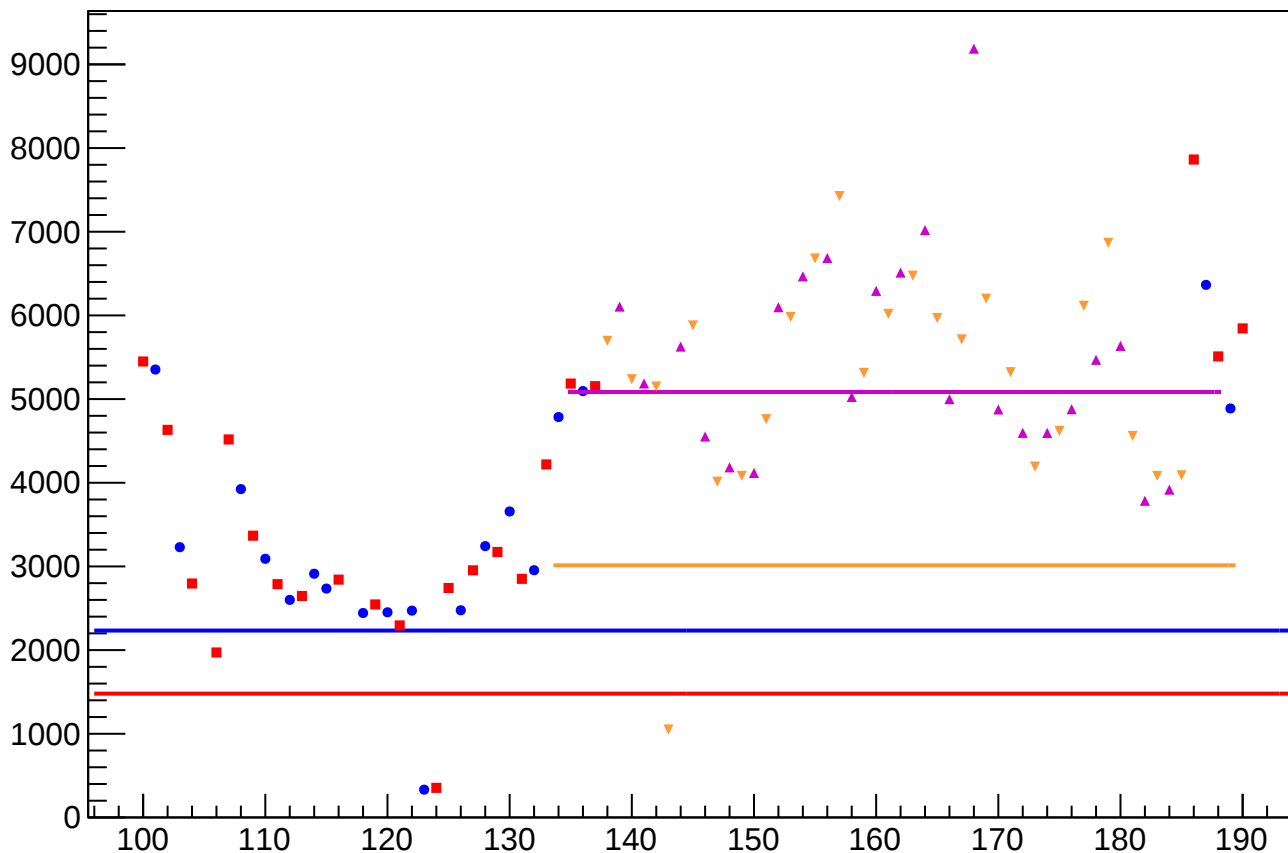
Right: -142.859 ± 582.967 $\chi^2/\text{NDF}: 50.9/40$

In: -311.860 ± 779.282 $\chi^2/\text{NDF}: 30.4/41$

Out: -479.889 ± 552.279 $\chi^2/\text{NDF}: 68.8/46$

All: -423.711 ± 450.595 $\chi^2/\text{NDF}: 99.3/88$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2233.606 $\pm$ 0.707 χ^2 /NDF: 4362355.7/18

Left Out: 3013.268 $\pm$ 0.612 χ^2 /NDF:12270753.9/24

Right Out: 1479.805 $\pm$ 0.507 χ^2 /NDF: 8690877.0/21

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

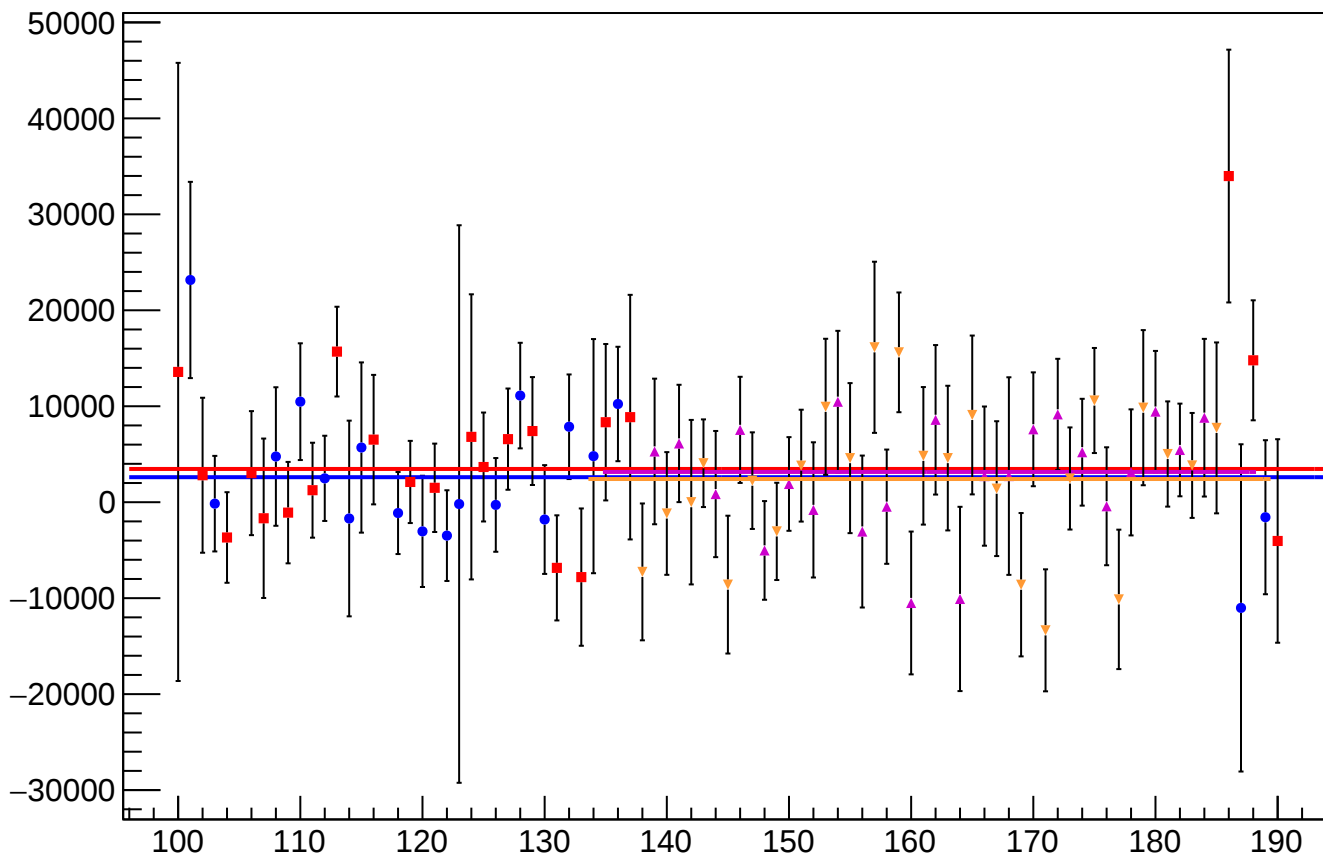
Right: 1735.929 $\pm$ 0.412 χ^2 /NDF: 13803370.0/40

In: 3353.633 $\pm$ 0.551 χ^2 /NDF:12051066.0/41

Out: 2104.626 $\pm$ 0.391 χ^2 /NDF:24684364.8/46

All: 2522.214 $\pm$ 0.319 χ^2 /NDF: 40155427.6/8

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2607.194+/-1423.985 χ^2/NDF : 16.6/18

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 3465.261+/-1332.615 χ^2/NDF : 27.6/21

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

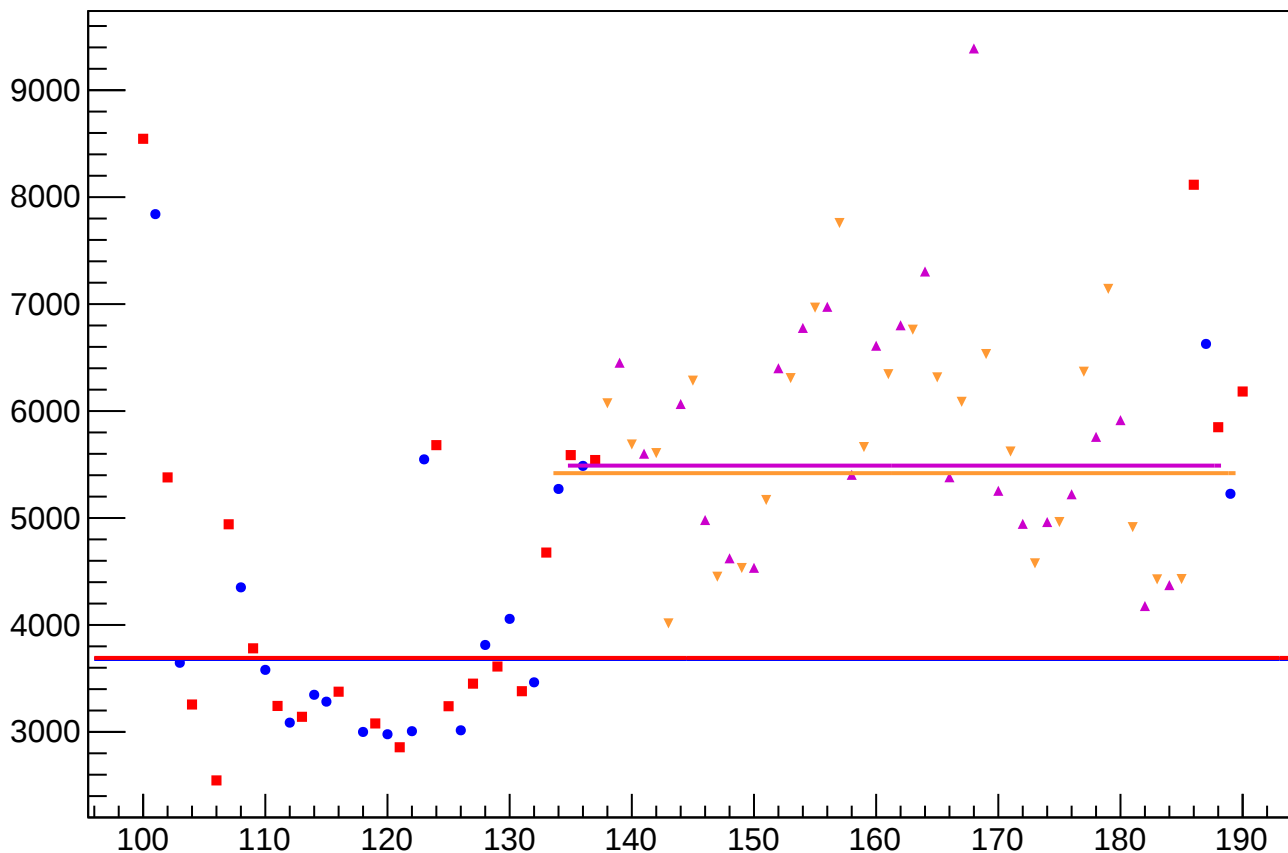
Right: 3064.638+/-973.000 χ^2/NDF : 44.5/40

In: 2897.437+/-974.849 χ^2/NDF : 32.2/41

Out: 2922.781+/-925.560 χ^2/NDF : 57.9/46

All: 2910.766+/-671.218 χ^2/NDF : 90.1/88

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3681.931 $\pm$ 1.007 χ^2 /NDF: 921834.5/18

Left Out: 5419.305 $\pm$ 0.910 χ^2 /NDF: 1109972.1/24

Right Out: 3691.910 $\pm$ 0.930 χ^2 /NDF: 1274864.1/21

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

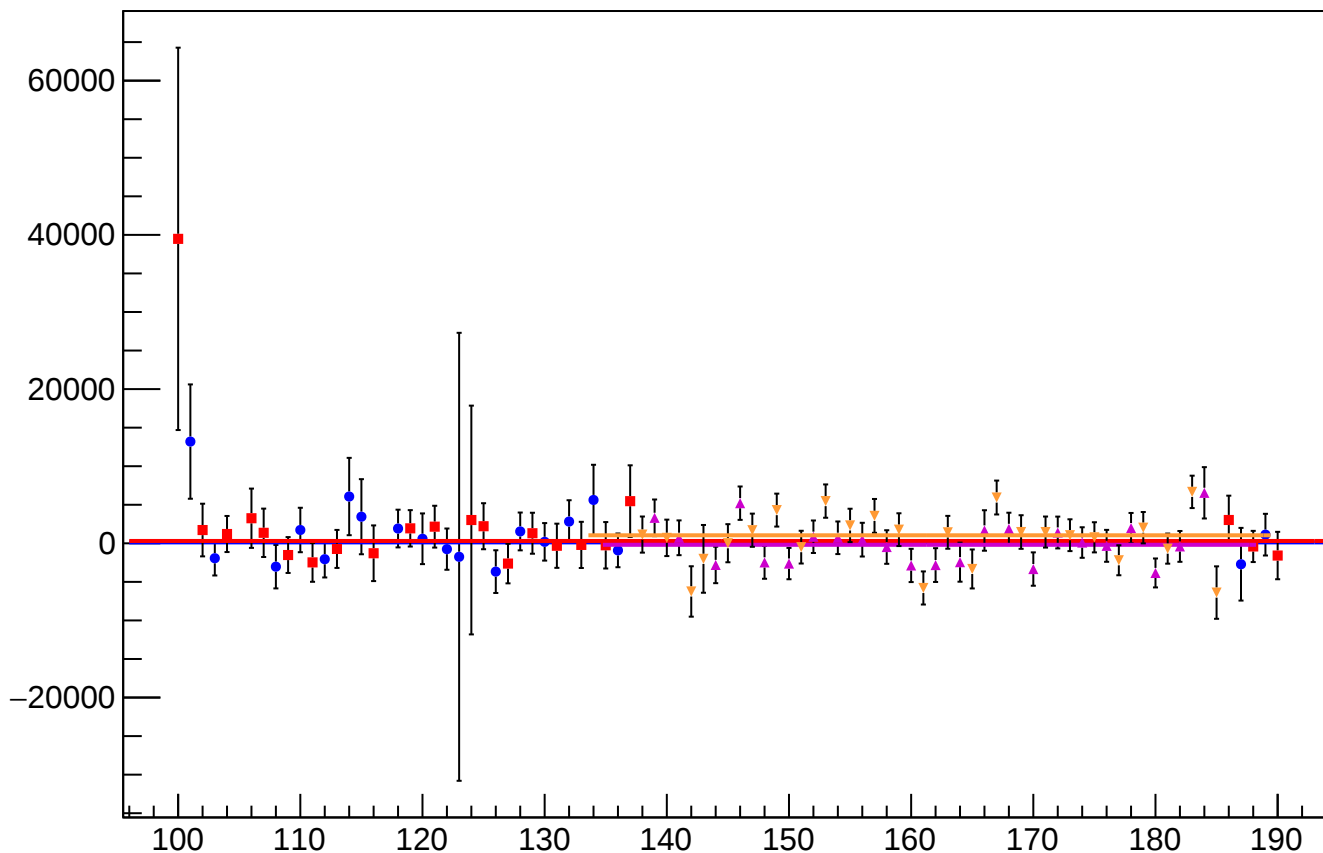
Right: 3687.316 $\pm$ 0.683 χ^2 /NDF: 2196751.6/40

In: 4642.551 $\pm$ 0.689 χ^2 /NDF: 3699213.1/41

Out: 4574.737 $\pm$ 0.650 χ^2 /NDF: 4147820.6/46

All: 4606.672 $\pm$ 0.473 χ^2 /NDF: 7852154.2/88

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 120.749+/-680.472 χ^2/NDF : 14.2/18

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: 306.212+/-621.340 χ^2/NDF : 11.2/21

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

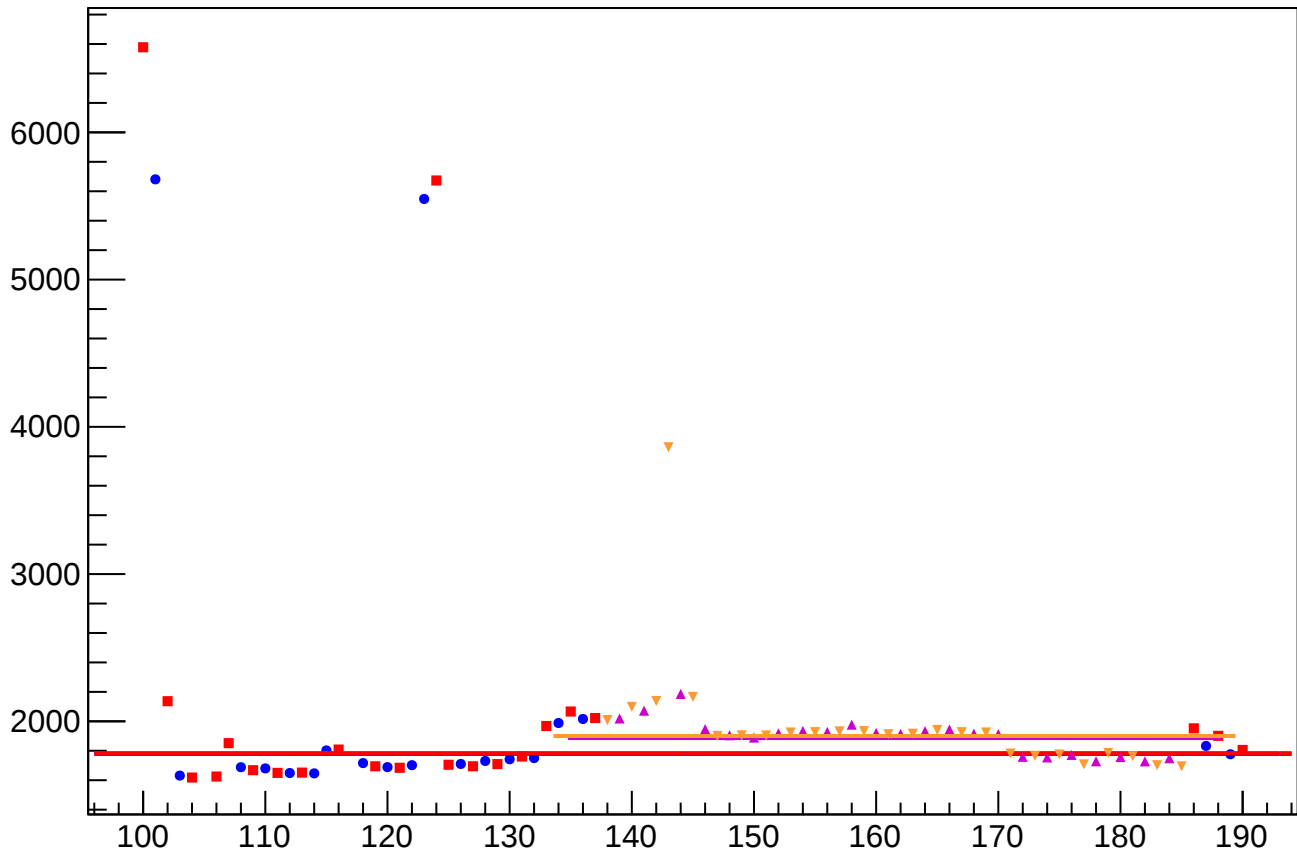
Right: 221.887+/-458.837 χ^2/NDF : 25.4/40

In: -95.920+/-377.116 χ^2/NDF :44.4/41

Out: 791.132+/-362.455 χ^2/NDF :60.6/46

All: 365.183+/-261.324 χ^2/NDF : 107.9/88

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1779.227 $\pm$ 0.481 χ^2/NDF : 643247.4/18

Left Out: 1900.295 $\pm$ 0.316 χ^2/NDF : 537892.5/24

Right Out: 1783.779 $\pm$ 0.437 χ^2/NDF : 320054.7/21

Left In: 1886.378 $\pm$ 0.320 χ^2/NDF : 123520.6/22

Left: 1893.441 $\pm$ 0.225 χ^2/NDF : 662371.1/47

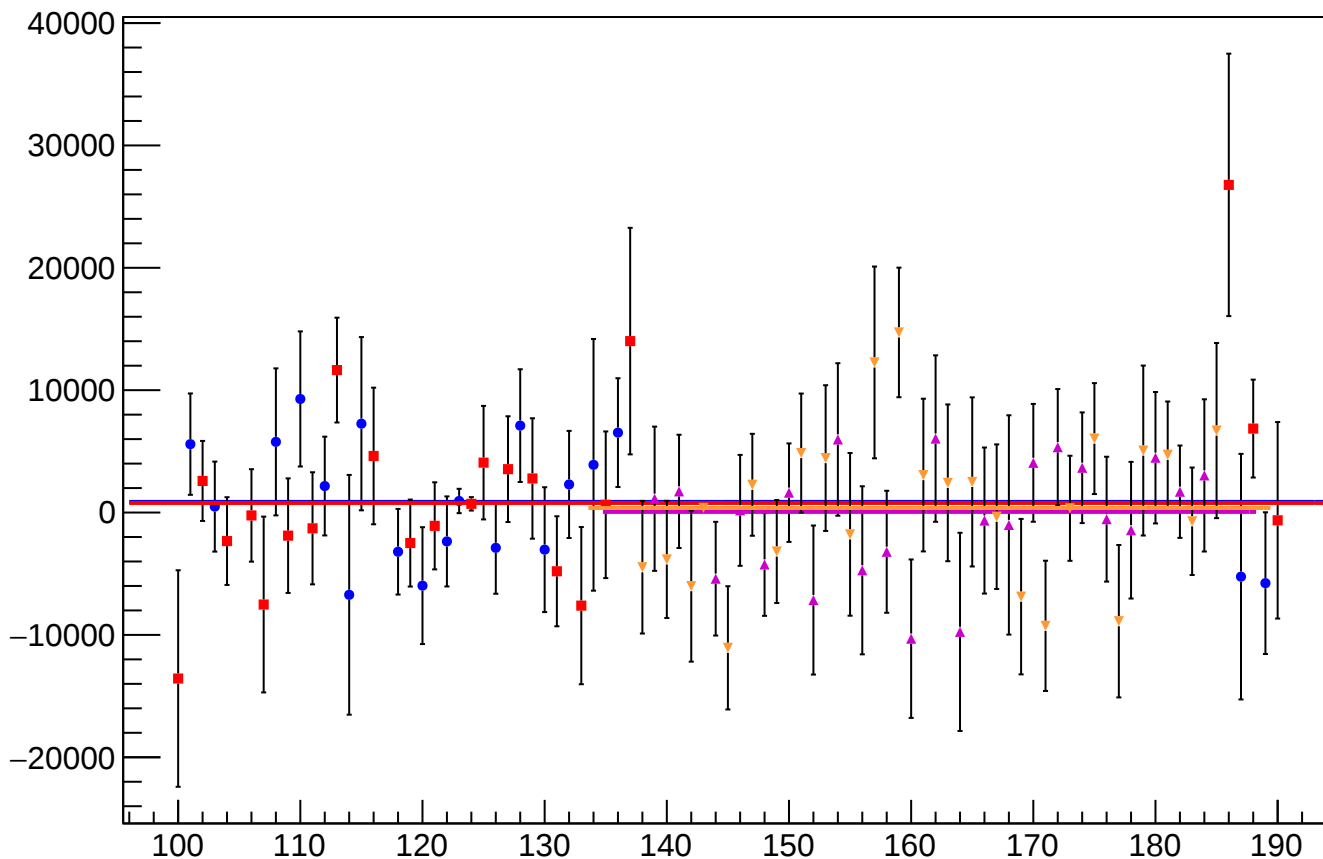
Right: 1781.723 $\pm$ 0.323 χ^2/NDF : 963351.2/40

In: 1853.468 $\pm$ 0.267 χ^2/NDF : 801127.3/41

Out: 1860.348 $\pm$ 0.256 χ^2/NDF : 904692.1/46

All: 1857.051 $\pm$ 0.185 χ^2/NDF : 1706166.1/88

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 869.084+/-744.968 χ^2/NDF : 16.9/18

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 782.910+/-483.305 χ^2/NDF : 28.3/21

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

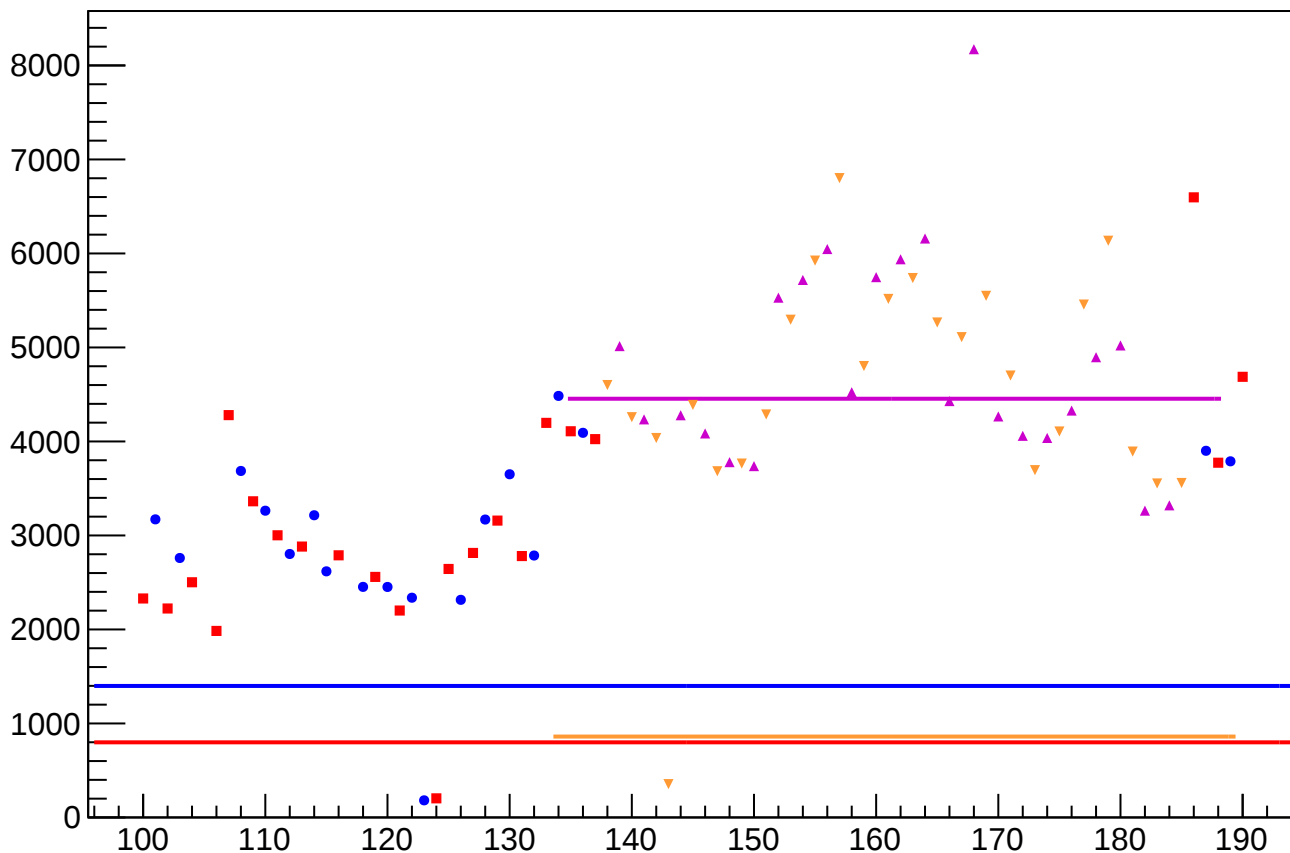
Right: 808.436+/-405.454 χ^2/NDF : 45.2/40

In: 609.246+/-615.023 χ^2/NDF :31.8/41

Out: 530.821+/-299.726 χ^2/NDF :59.5/46

All: 545.872+/-269.433 χ^2/NDF : 91.4/88

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1399.010 $\pm$ 0.527 χ^2 /NDF: 7310849.4/18

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 799.144 $\pm$ 0.342 χ^2 /NDF: 11682114.9/21

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

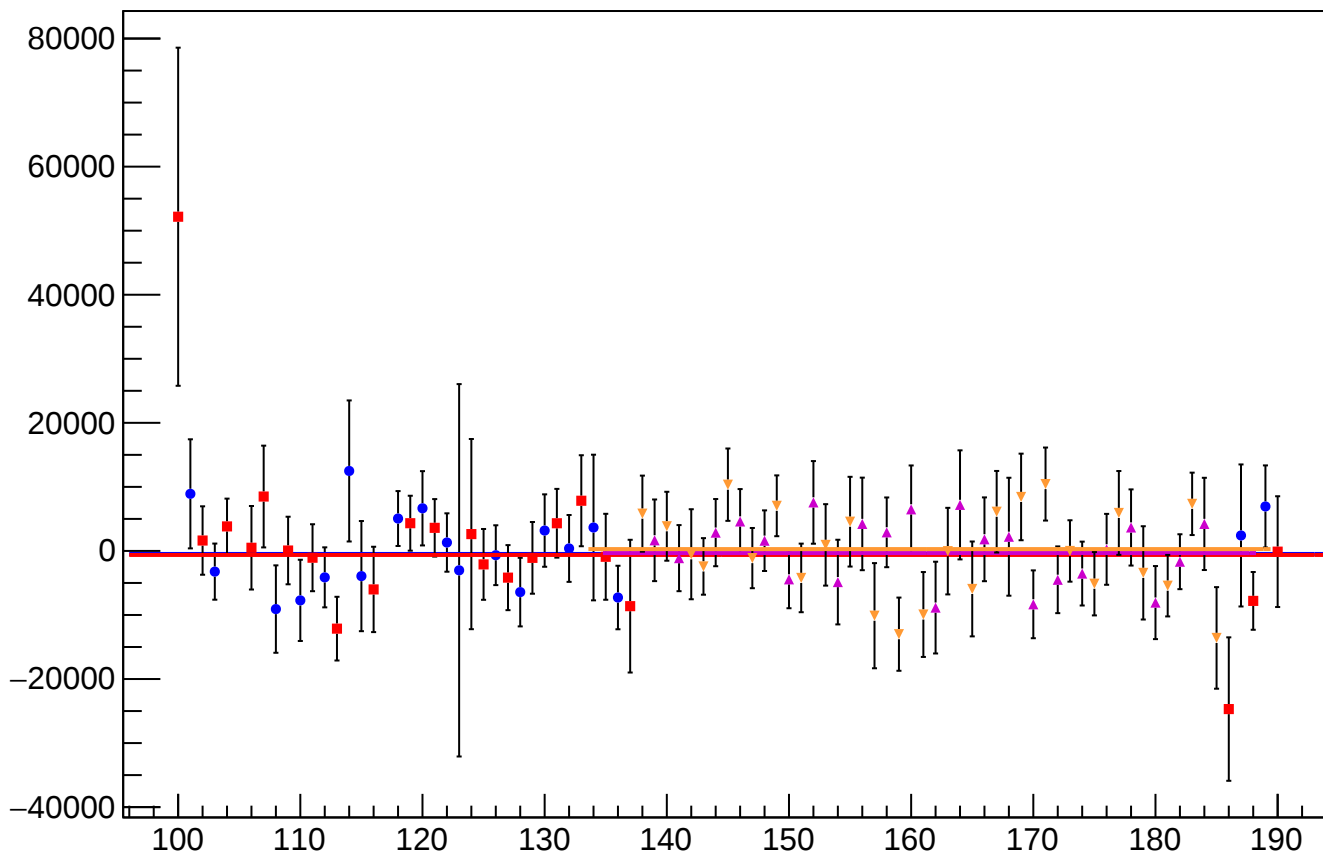
Right: 976.834 $\pm$ 0.287 χ^2 /NDF: 19905609.3/40

In: 2371.951 $\pm$ 0.435 χ^2 /NDF: 19373535.3/41

Out: 836.931 $\pm$ 0.212 χ^2 /NDF: 38042086.7/46

All: 1131.532 $\pm$ 0.191 χ^2 /NDF: 67483304.4/8

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -474.044 ± 1357.559 χ^2/NDF : 15.1/18

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -627.629 ± 1256.875 χ^2/NDF : 25.5/21

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

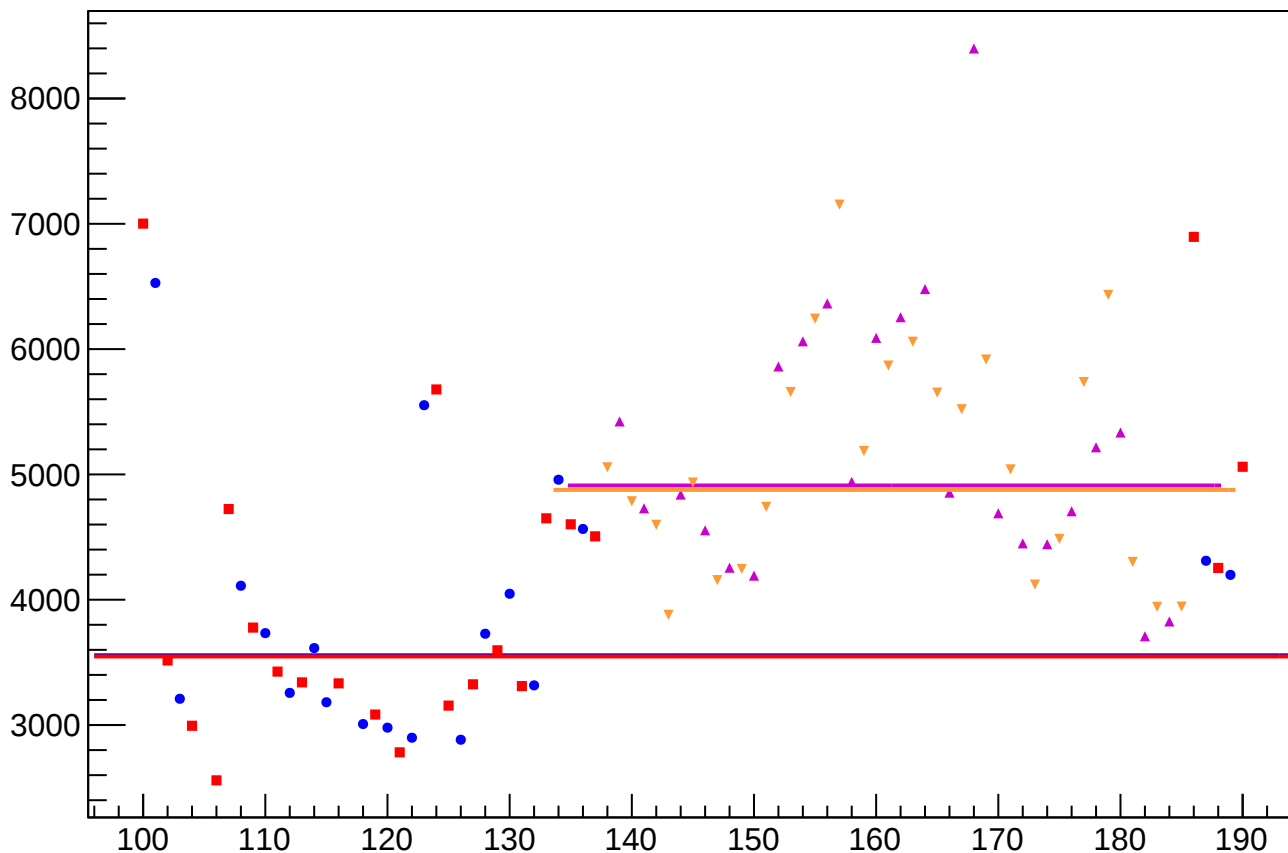
Right: -556.742 ± 922.288 χ^2/NDF : 40.6/40

In: -394.346 ± 897.416 χ^2/NDF : 29.8/41

Out: -131.097 ± 850.614 χ^2/NDF : 58.2/46

All: -255.679 ± 617.358 χ^2/NDF : 88.0/88

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3556.356 $\pm$ 0.960 χ^2 /NDF: 591967.9/18

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3547.247 $\pm$ 0.878 χ^2 /NDF: 740812.9/21

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

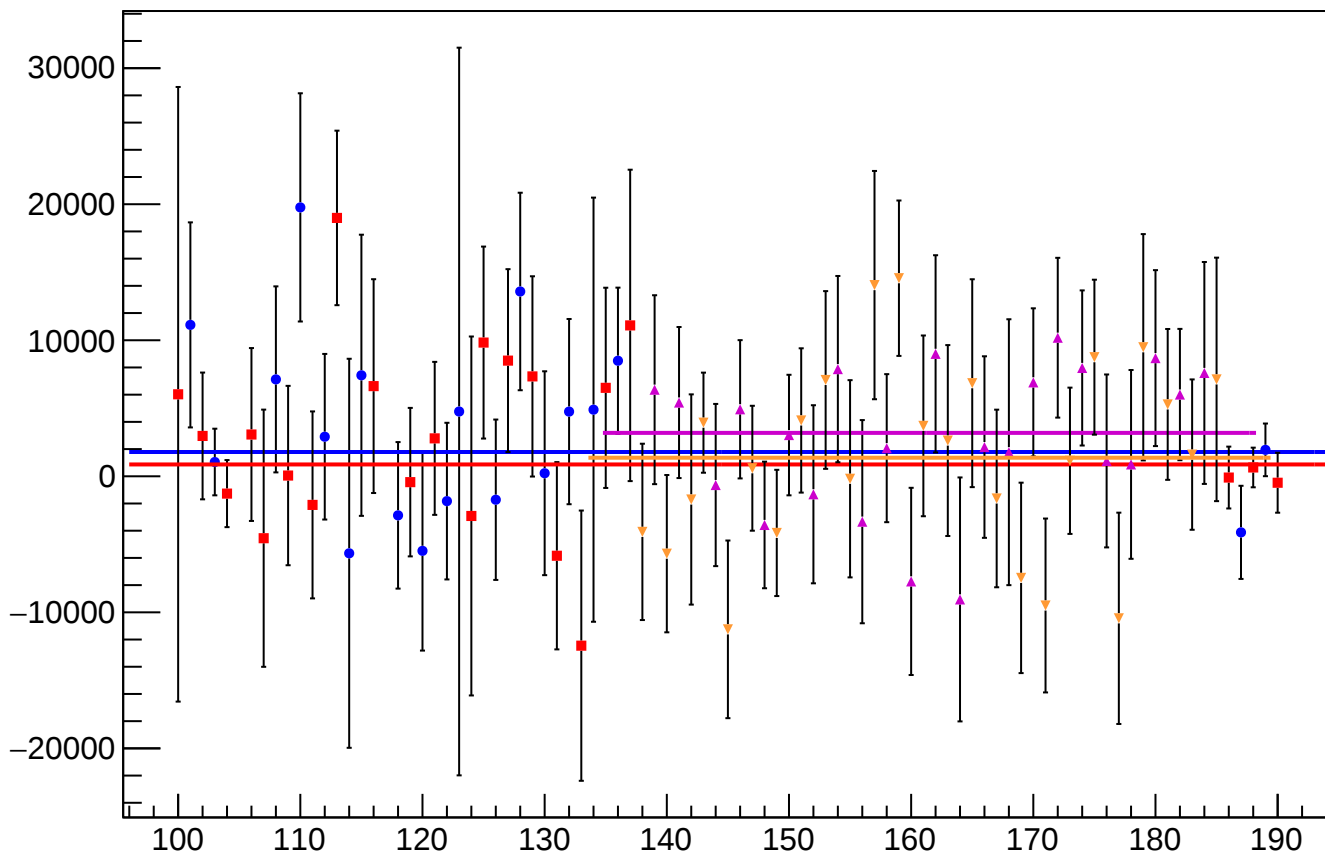
Right: 3551.399 $\pm$ 0.648 χ^2 /NDF: 1332829.7/40

In: 4319.340 $\pm$ 0.635 χ^2 /NDF: 2757235.0/41

Out: 4260.016 $\pm$ 0.598 χ^2 /NDF: 2941193.7/46

All: 4287.932 $\pm$ 0.435 χ^2 /NDF: 5703056.0/88

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1785.681+/-1101.625 χ^2/NDF : 17.4/18

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 870.691+/-847.362 χ^2/NDF : 18.8/21

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

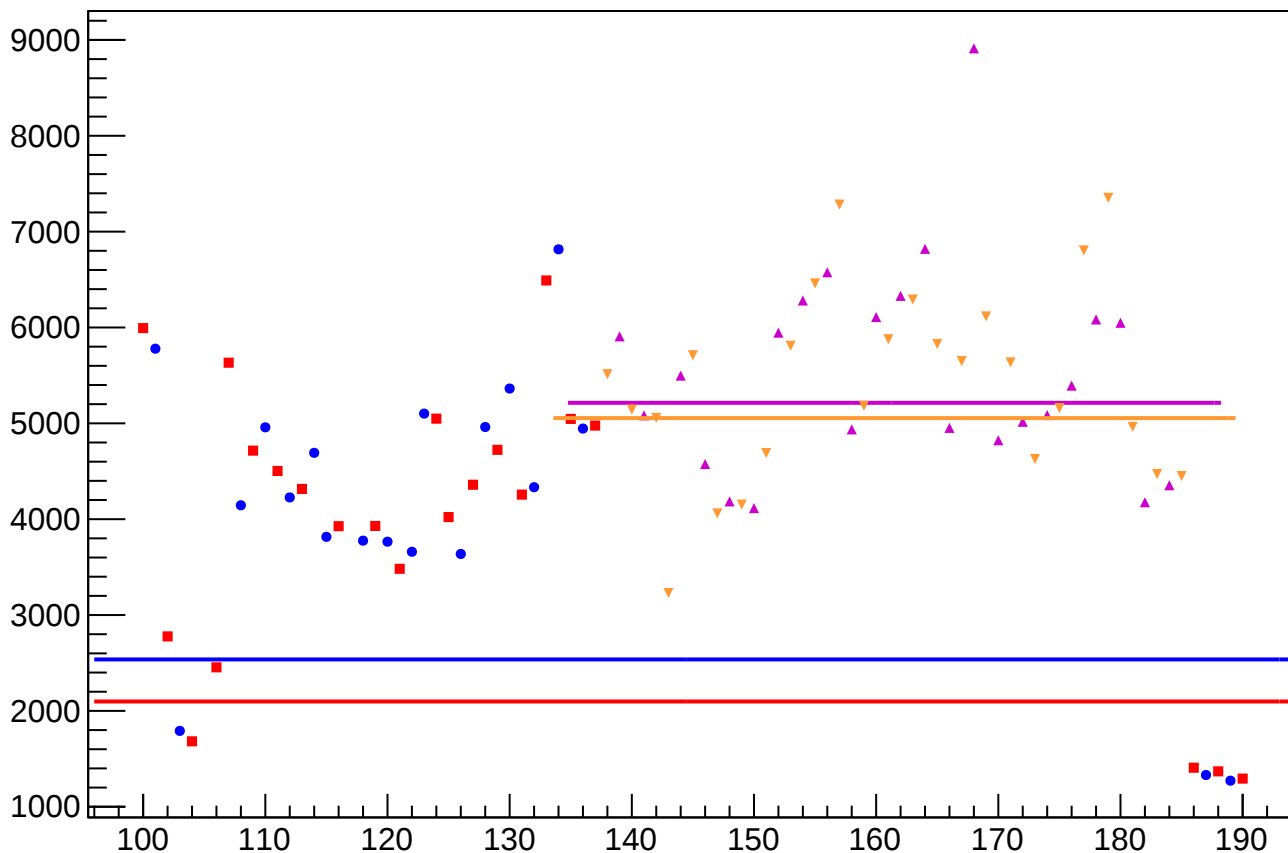
Right: 1210.815+/-671.652 χ^2/NDF : 36.6/40

In: 2389.127+/-832.181 χ^2/NDF : 32.1/41

Out: 1034.044+/-693.382 χ^2/NDF : 46.9/46

All: 1589.309+/-532.703 χ^2/NDF : 80.5/88

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2536.899+/-0.779 χ^2/NDF : 3690749.4/18

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 2098.178+/-0.597 χ^2/NDF : 4417438.5/21

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

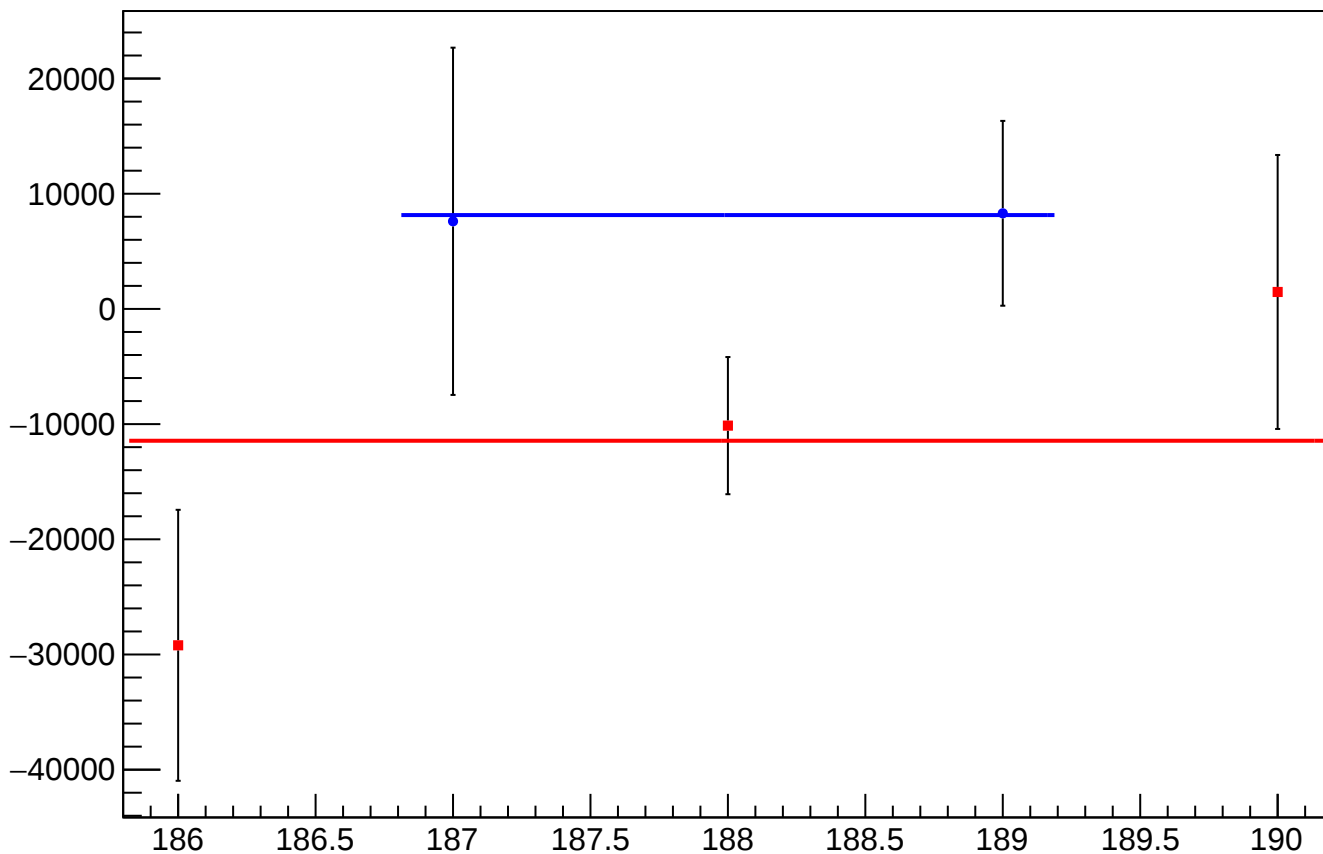
Right: 2260.553+/-0.474 χ^2/NDF : 8307997.6/40

In: 3686.351+/-0.588 χ^2/NDF : 9814907.6/41

Out: 3070.518+/-0.489 χ^2/NDF : 13917899.6/46

All: 3322.174+/-0.376 χ^2/NDF : 24380512.5/8

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 8148.175+/-7081.731 χ^2/NDF : 0.0/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -11443.946+/-4850.615 χ^2/NDF : 3.5/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

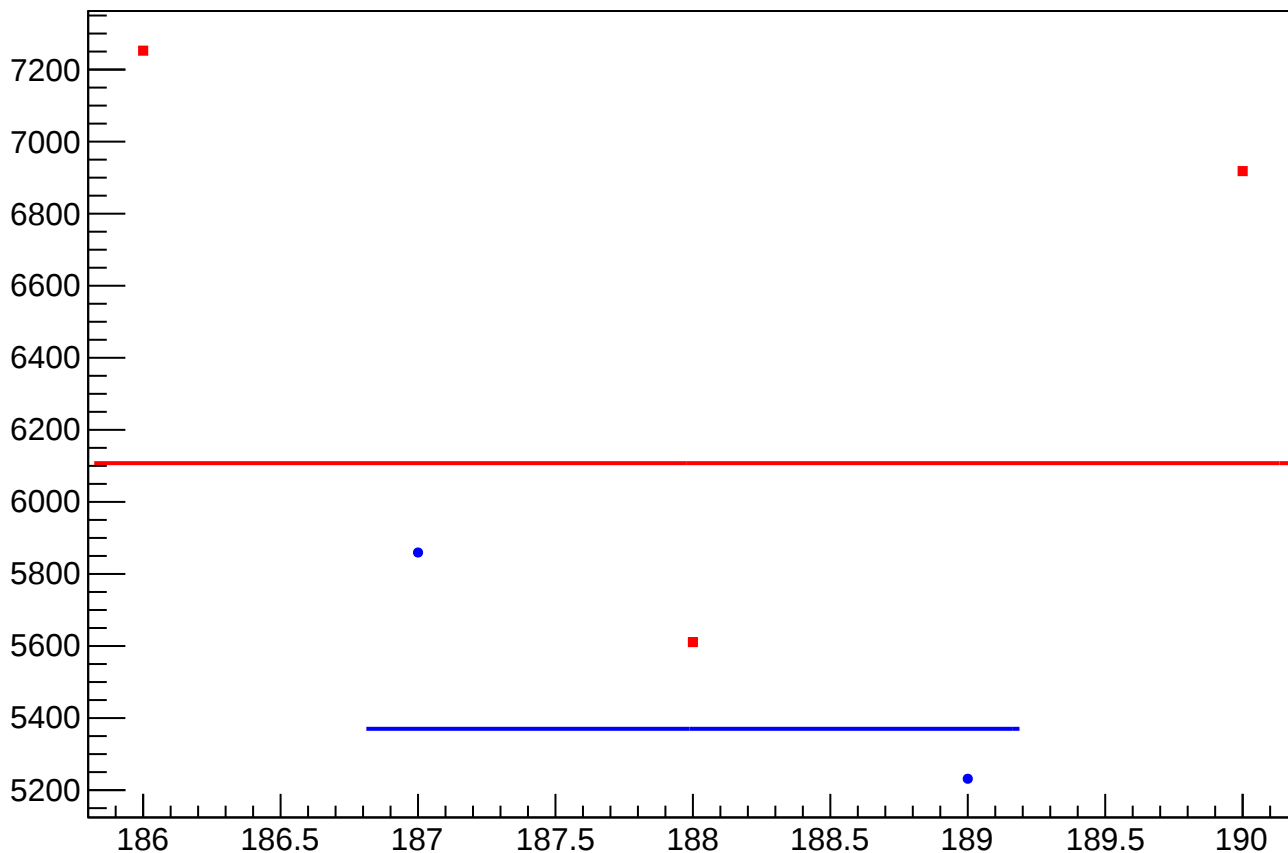
Right: -5187.479+/-4001.873 χ^2/NDF : 8.7/4

In: 8148.175+/-7081.731 χ^2/NDF : 0.0/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -5187.479+/-4001.873 χ^2/NDF : 8.7/4

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5370.188+/-5.008 χ^2/NDF : 2704.9/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 6107.559+/-3.430 χ^2/NDF : 42150.2/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

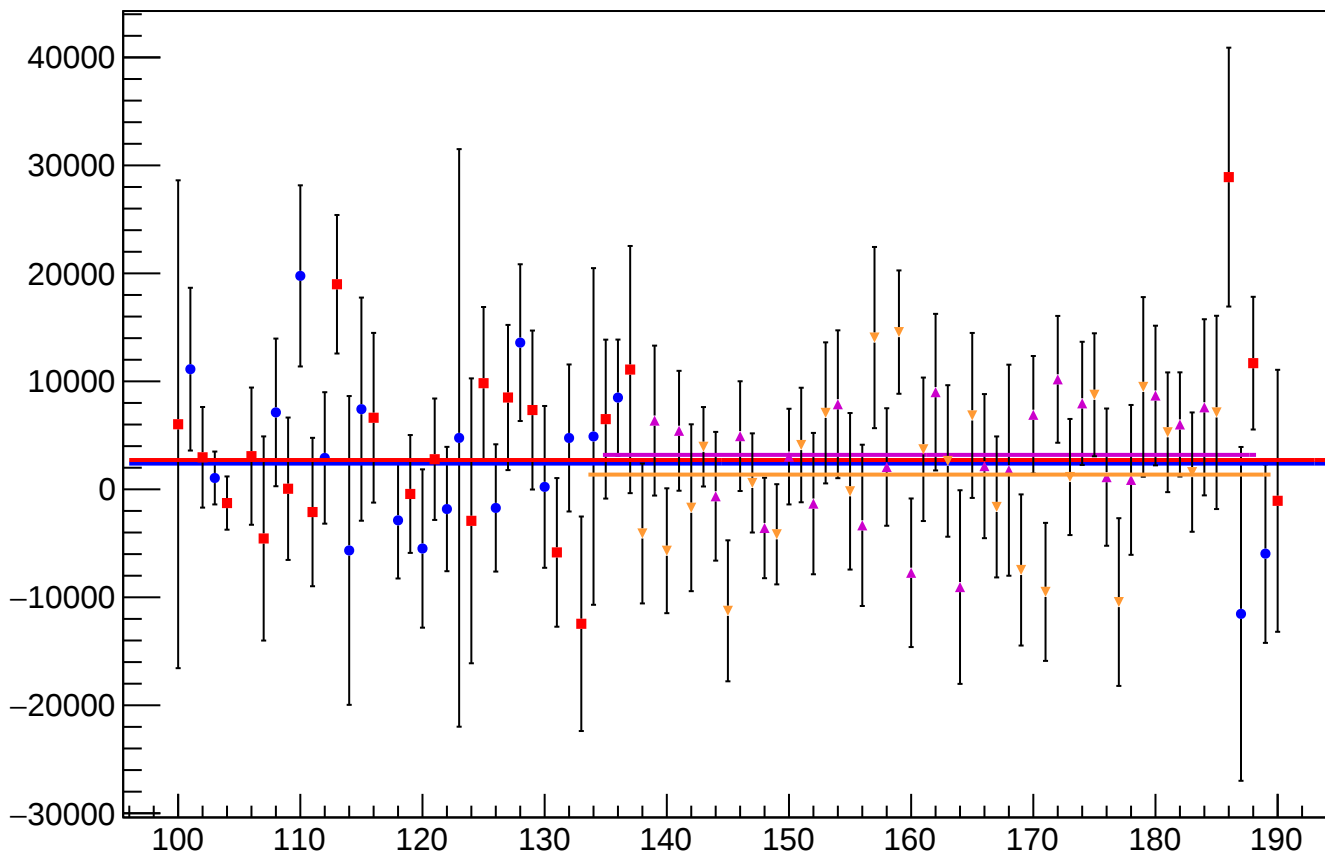
Right: 5872.090+/-2.830 χ^2/NDF : 59614.1/4

In: 5370.188+/-5.008 χ^2/NDF : 2704.9/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5872.090+/-2.830 χ^2/NDF : 59614.1/4

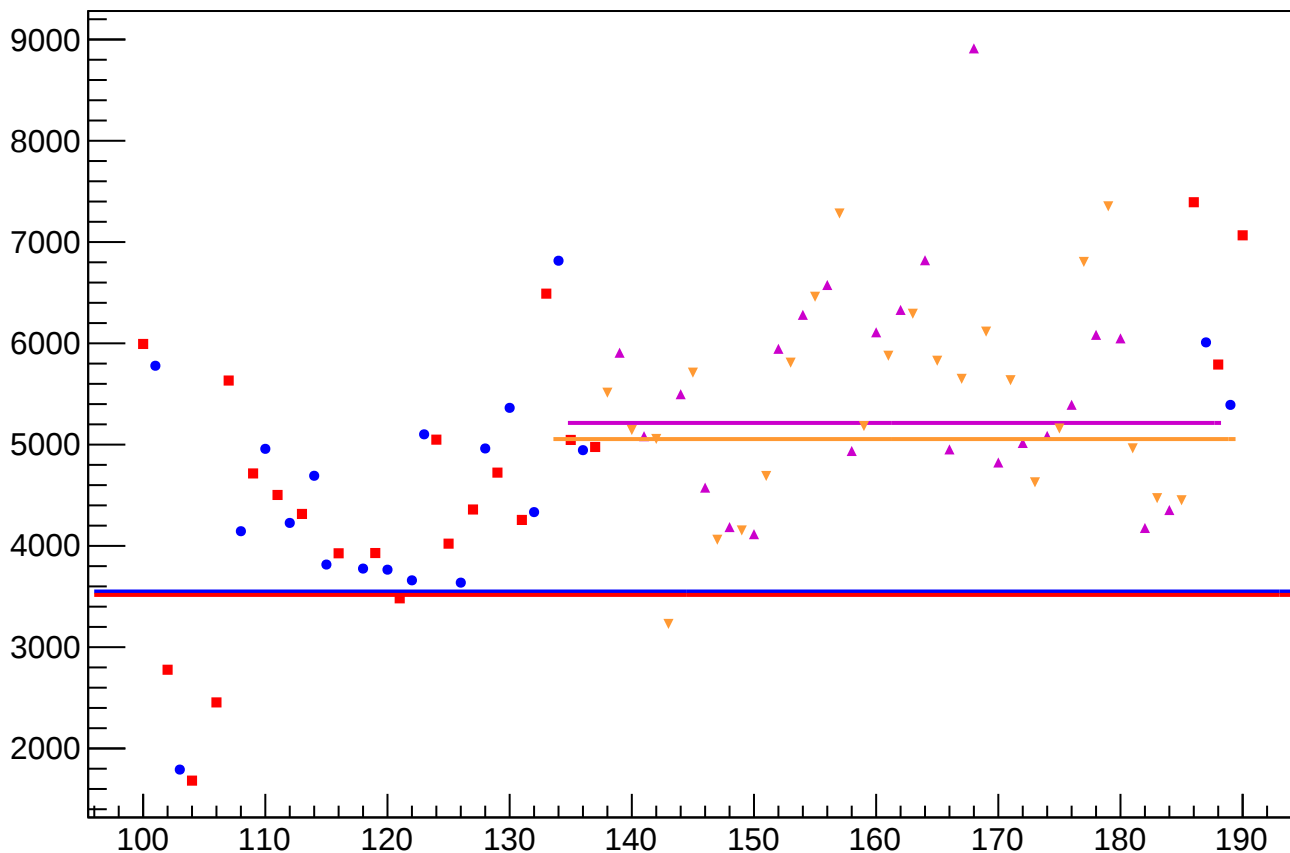
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2382.584 $\pm$ 1427.736 χ^2 /NDF: 15.8/18
 Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24
 Right Out: 2714.889 $\pm$ 1333.495 χ^2 /NDF: 24.9/21
 Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47
 Right: 2560.064 $\pm$ 974.538 χ^2 /NDF: 40.8/40
 In: 2833.981 $\pm$ 948.921 χ^2 /NDF:30.0/41
 Out: 1972.537 $\pm$ 894.567 χ^2 /NDF:53.4/46
 All: 2377.882 $\pm$ 650.922 χ^2 /NDF: 83.9/88

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3549.664 $\pm$ 1.010 χ^2 /NDF: 1921857.4/18

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 3516.190 $\pm$ 0.935 χ^2 /NDF: 2612797.0/21

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

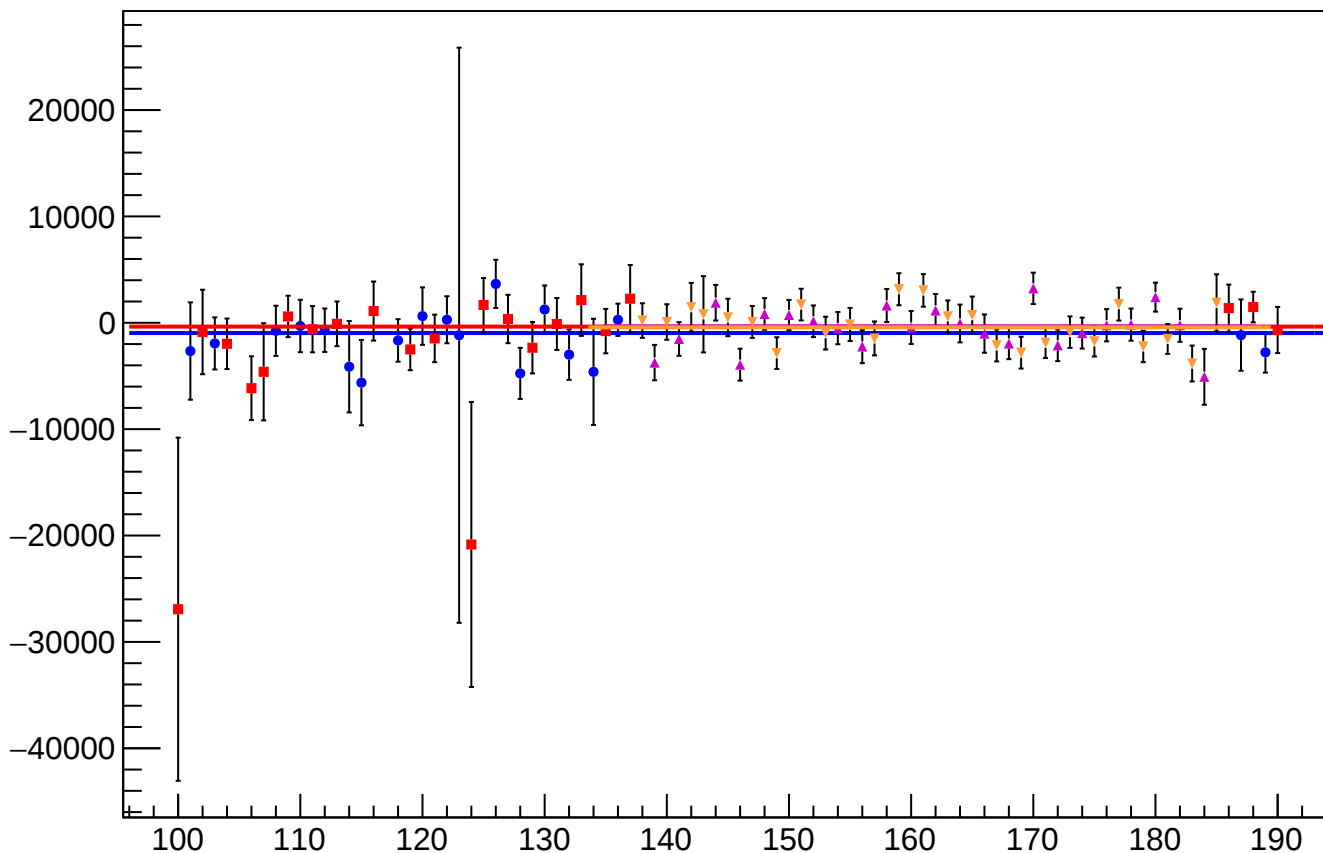
Right: 3531.644 $\pm$ 0.686 χ^2 /NDF: 4535246.2/40

In: 4478.847 $\pm$ 0.671 χ^2 /NDF:4491859.7/41

Out: 4355.807 $\pm$ 0.630 χ^2 /NDF:5527985.4/46

All: 4413.466 $\pm$ 0.459 χ^2 /NDF: 10037713.1/8

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -962.572+/-568.982 χ^2/NDF : 13.5/18

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -358.479+/-519.255 χ^2/NDF : 17.1/21

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

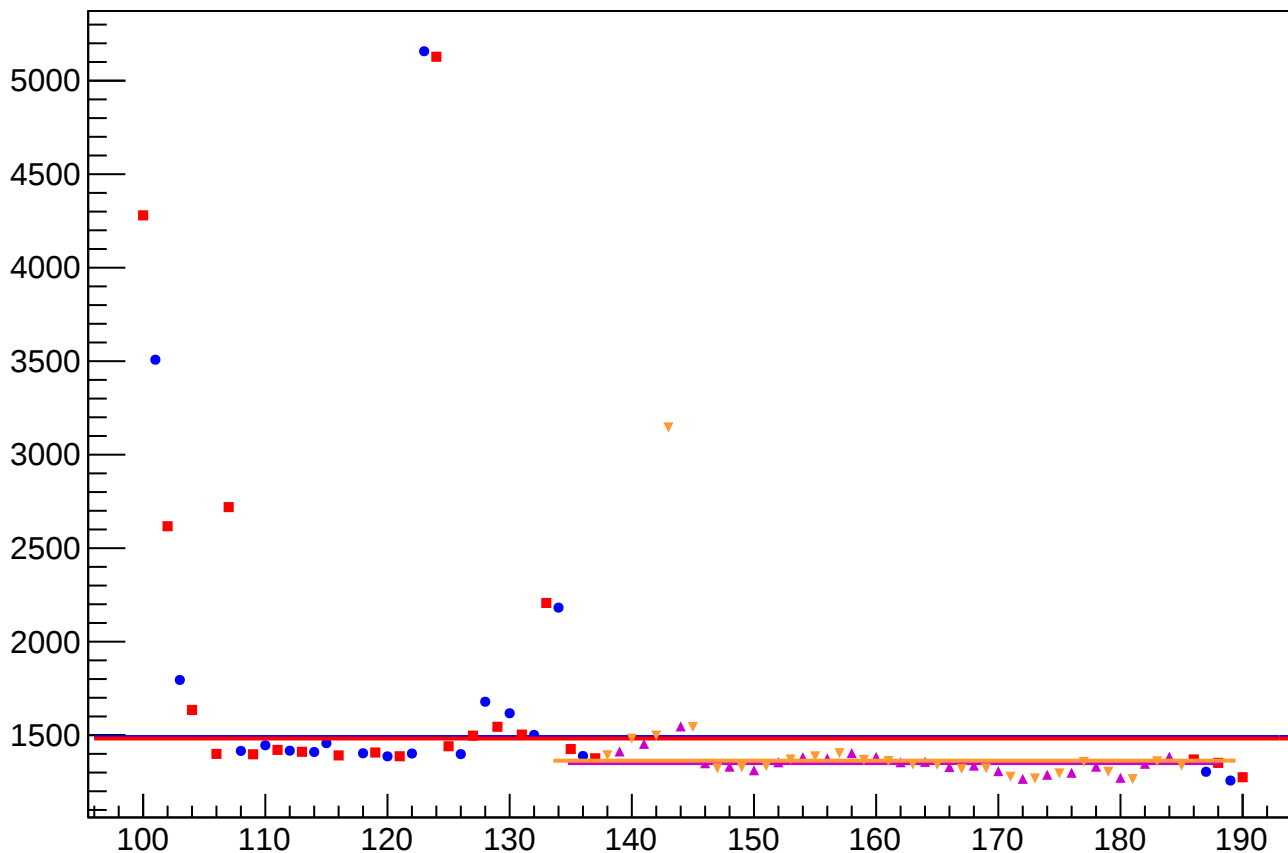
Right: -632.979+/-383.546 χ^2/NDF : 31.2/40

In: -495.526+/-281.794 χ^2/NDF :48.2/41

Out: -411.507+/-272.756 χ^2/NDF :50.2/46

All: -452.148+/-195.985 χ^2/NDF : 98.4/88

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1489.814+/-0.402 χ^2/NDF : 578059.2/18

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1482.177+/-0.367 χ^2/NDF : 682986.8/21

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

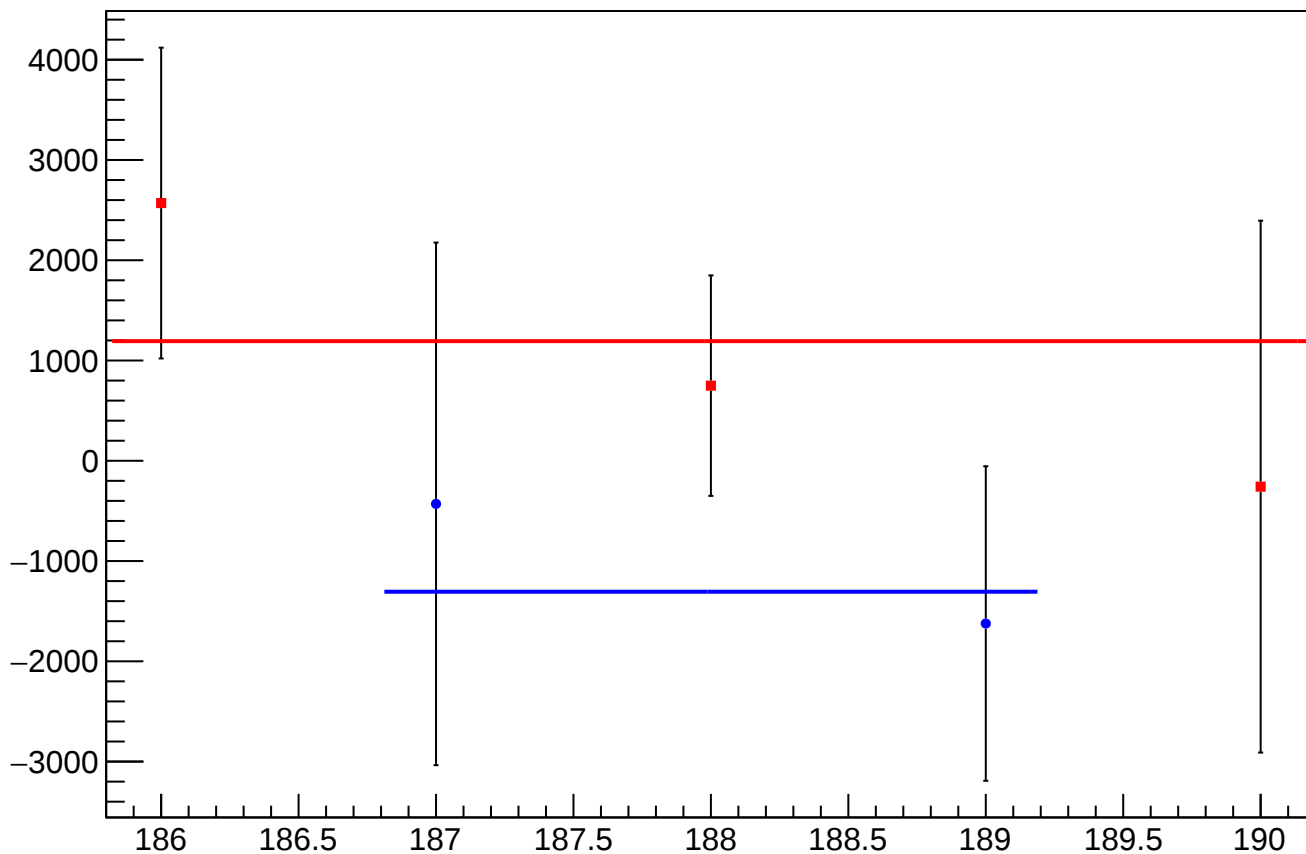
Right: 1485.647+/-0.271 χ^2/NDF : 1261242.6/40

In: 1384.980+/-0.199 χ^2/NDF : 735165.0/41

Out: 1396.290+/-0.193 χ^2/NDF : 1333781.5/46

All: 1390.819+/-0.139 χ^2/NDF : 2070609.9/88

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1305.933+/-1343.931 χ^2/NDF : 0.2/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1193.097+/-849.578 χ^2/NDF : 1.3/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

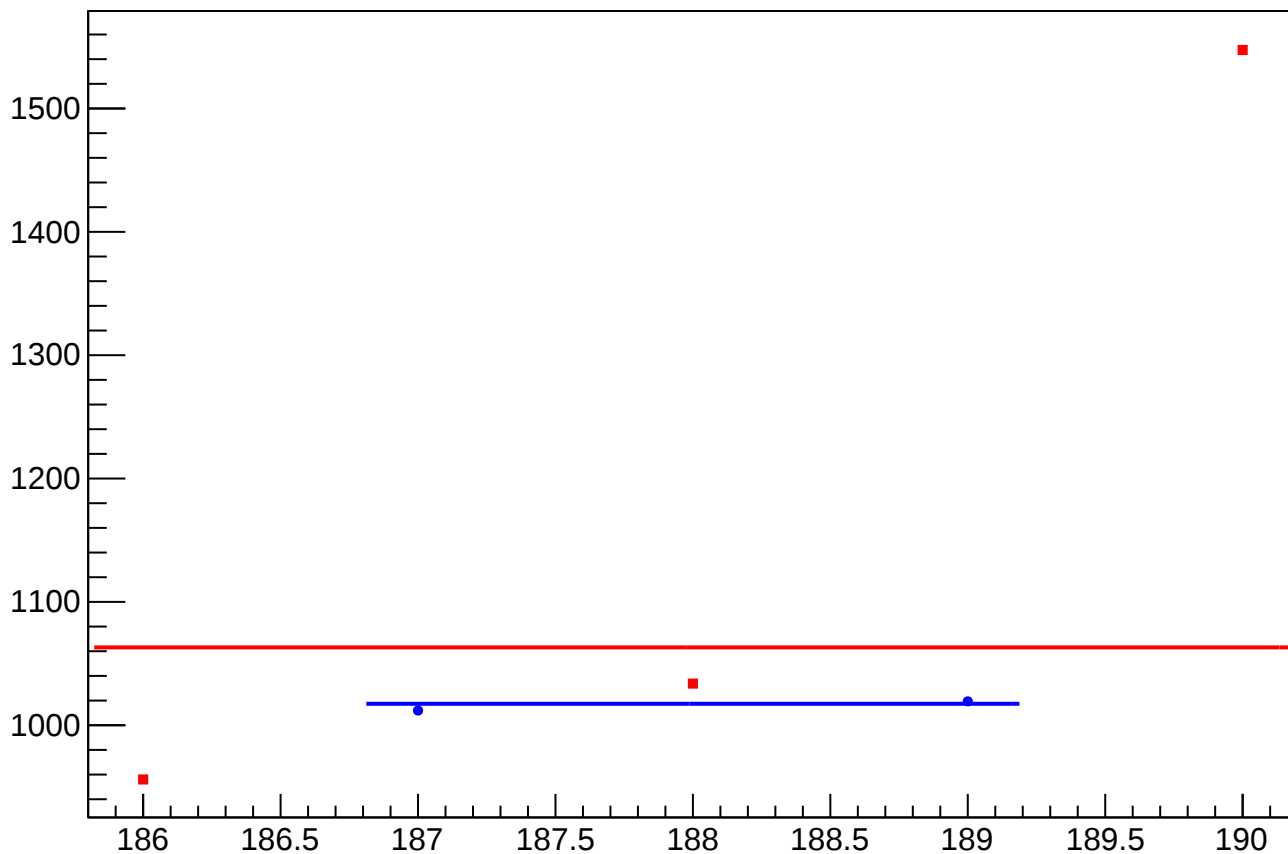
Right: 479.567+/-718.121 χ^2/NDF : 3.9/4

In: -1305.933+/-1343.931 χ^2/NDF : 0.2/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 479.567+/-718.121 χ^2/NDF : 3.9/4

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1017.385 $\pm$ 0.950 χ^2/NDF : 11.9/1

Left Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Right Out: 1063.107 $\pm$ 0.601 χ^2/NDF : 77647.9/2

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

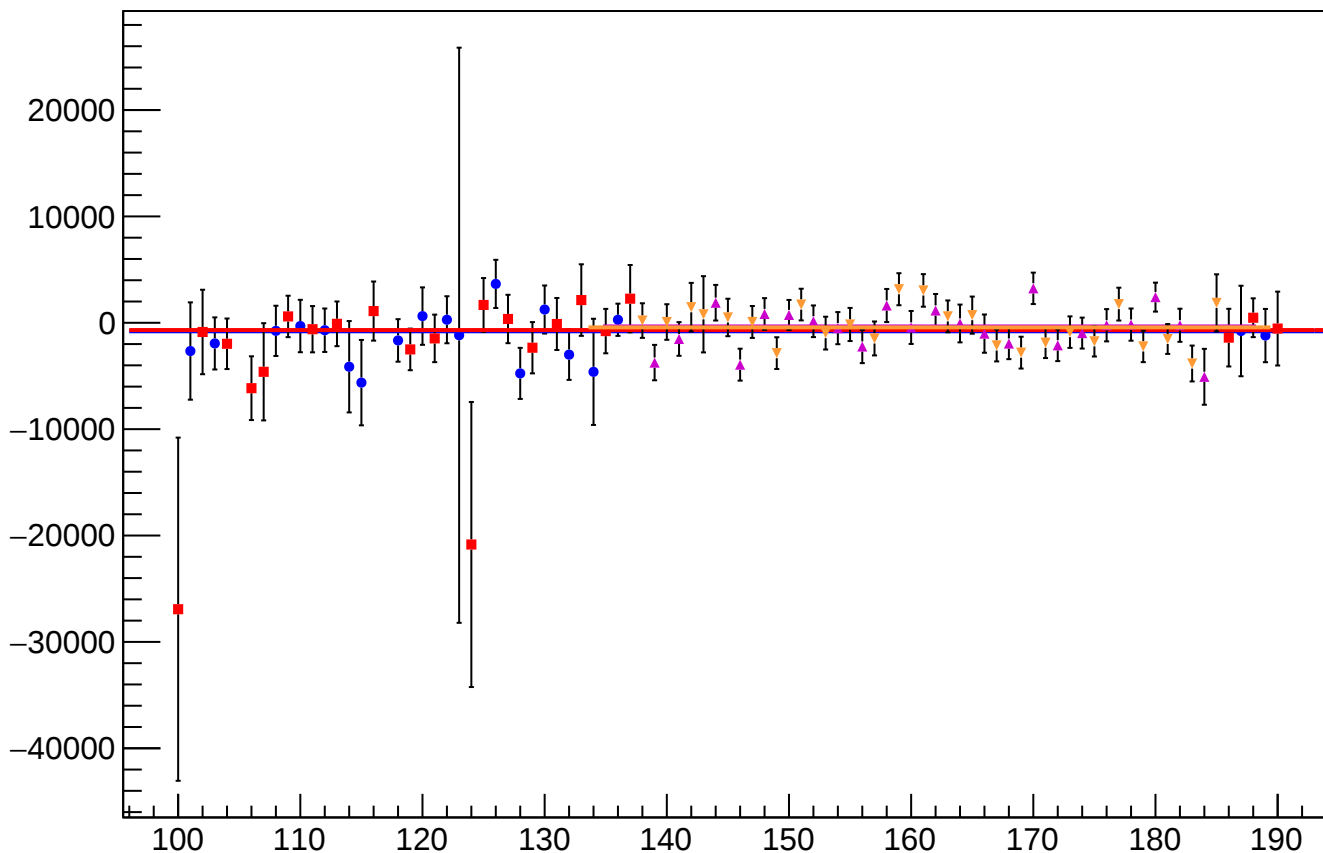
Right: 1050.052 $\pm$ 0.508 χ^2/NDF : 79313.8/4

In: 1017.385 $\pm$ 0.950 χ^2/NDF : 11.9/1

Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

All: 1050.052 $\pm$ 0.508 χ^2/NDF : 79313.8/4

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -797.764+/-583.069 χ^2/NDF : 12.6/18

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -683.216+/-548.138 χ^2/NDF : 14.8/21

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

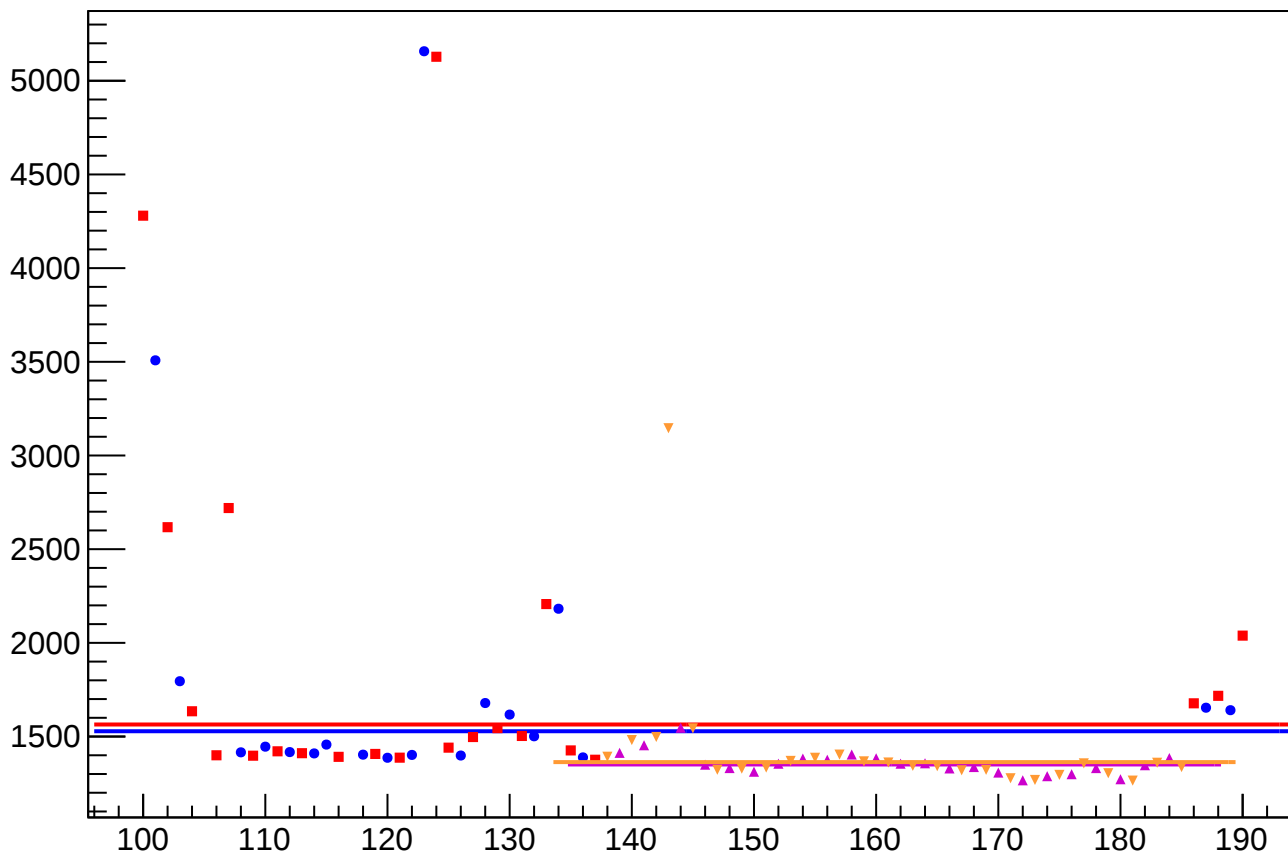
Right: -736.956+/-399.370 χ^2/NDF : 27.4/40

In: -451.042+/-283.458 χ^2/NDF : 46.8/41

Out: -495.803+/-276.701 χ^2/NDF : 48.1/46

All: -473.962+/-198.003 χ^2/NDF : 94.9/88

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1528.291+/-0.412 χ^2/NDF : 543906.7/18

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1564.287+/-0.388 χ^2/NDF : 693257.2/21

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

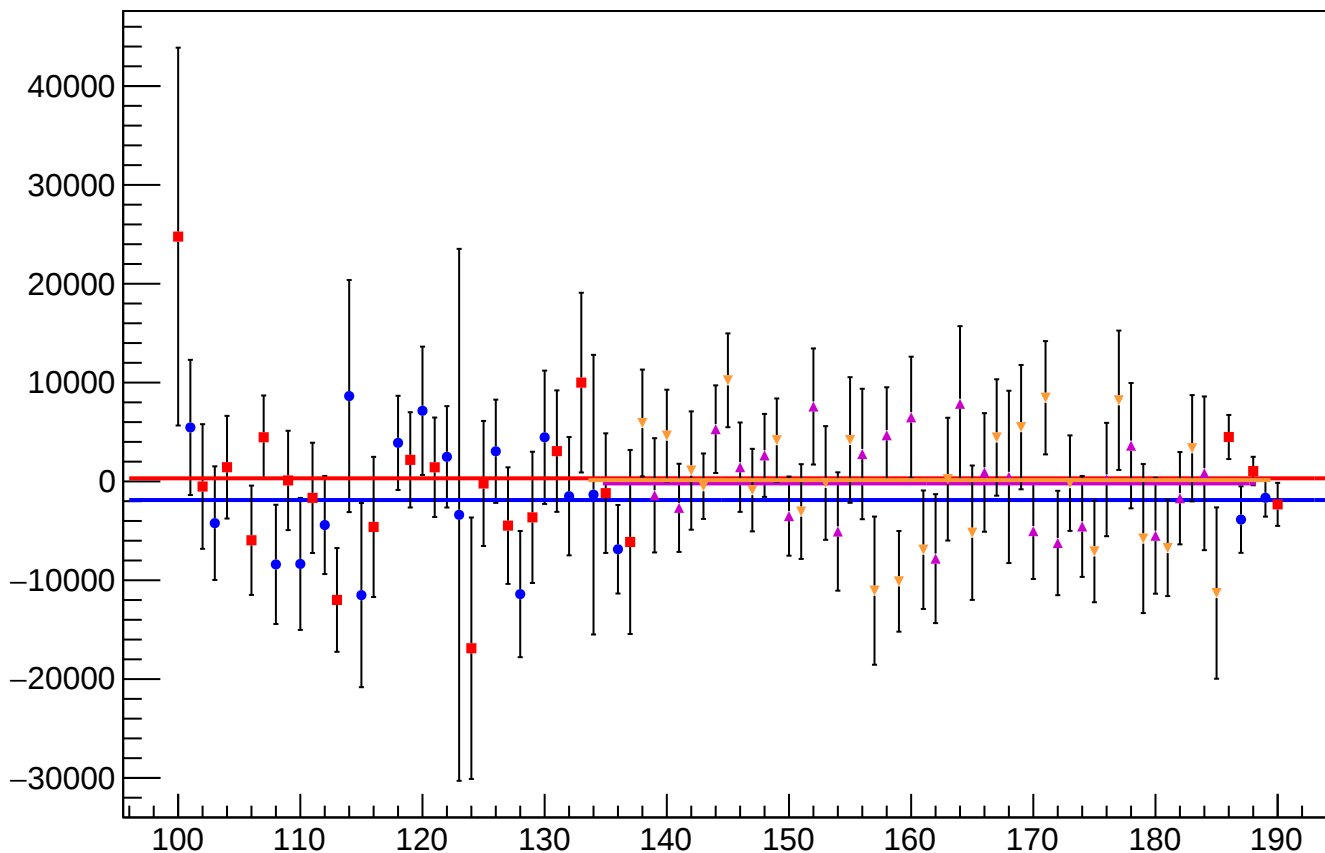
Right: 1547.399+/-0.282 χ^2/NDF : 1241210.4/40

In: 1392.831+/-0.200 χ^2/NDF : 752405.9/41

Out: 1414.712+/-0.196 χ^2/NDF : 1468339.4/46

All: 1404.035+/-0.140 χ^2/NDF : 2226847.2/88

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1883.090 ± 1120.731 $\chi^2/\text{NDF}: 15.3/18$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 315.047 ± 839.905 $\chi^2/\text{NDF}: 20.1/21$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

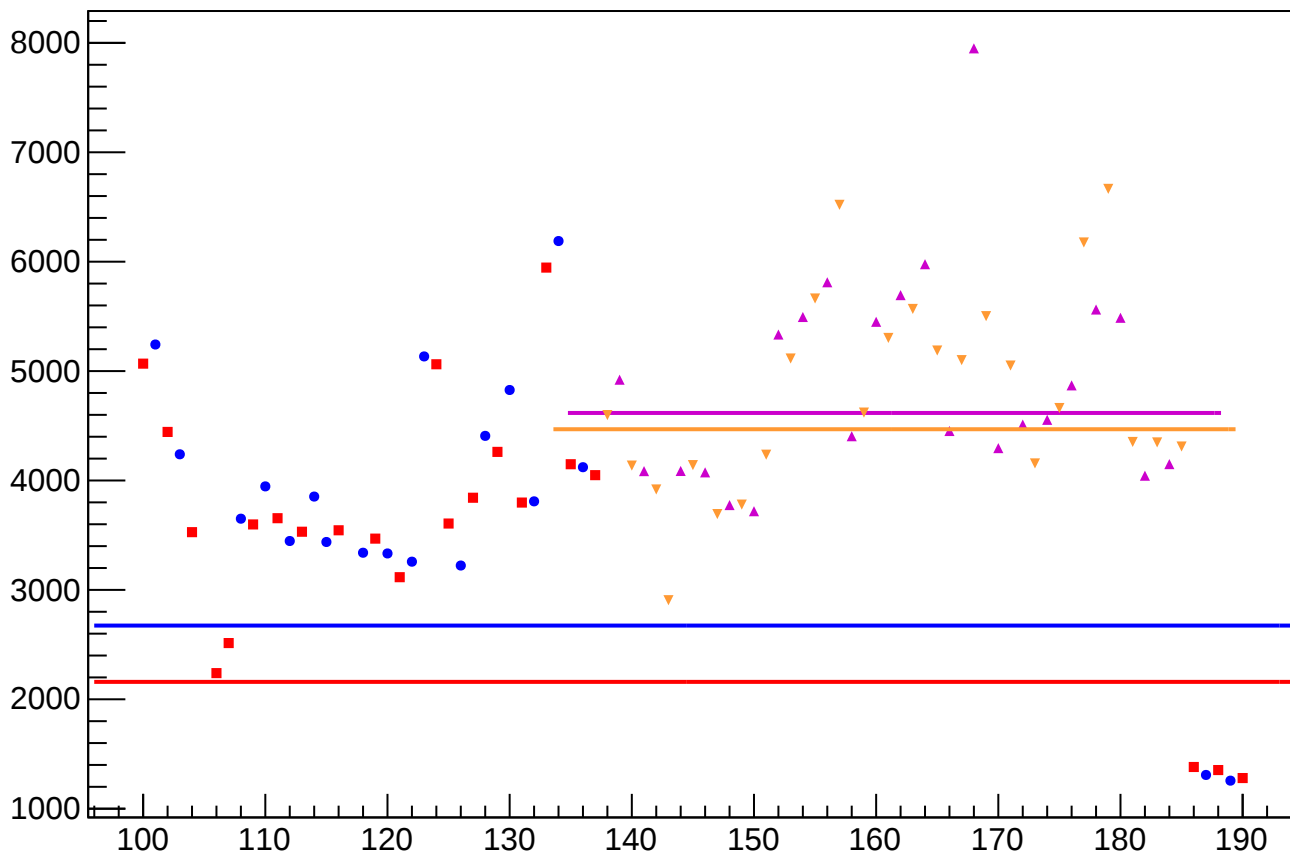
Right: -475.507 ± 672.109 $\chi^2/\text{NDF}: 37.8/40$

In: -1043.712 ± 793.454 $\chi^2/\text{NDF}: 31.2/41$

Out: 244.954 ± 659.622 $\chi^2/\text{NDF}: 48.2/46$

All: -281.688 ± 507.235 $\chi^2/\text{NDF}: 80.9/88$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2673.895 $\pm$ 0.792 χ^2 /NDF: 2947428.3/18

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 2159.244 $\pm$ 0.592 χ^2 /NDF: 3750941.6/21

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

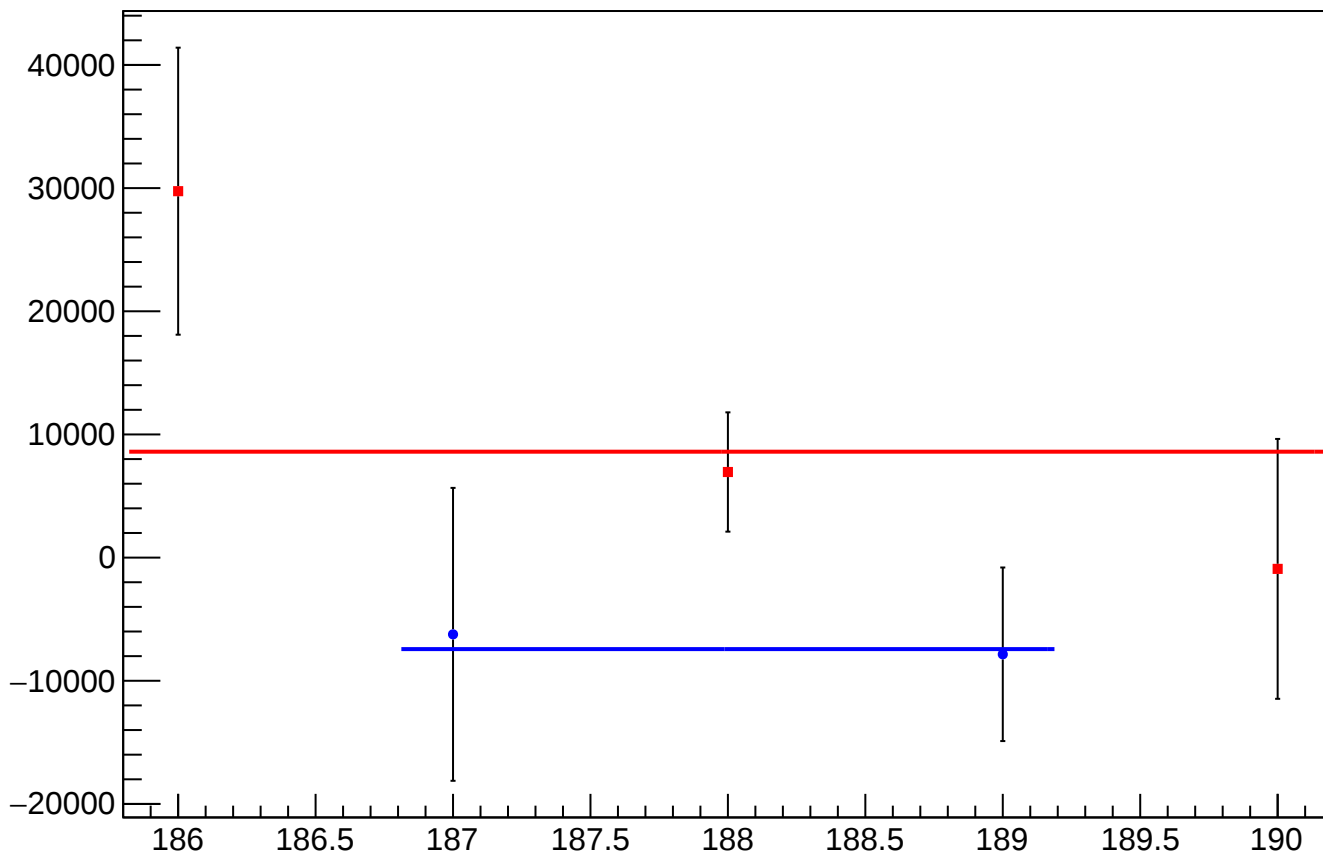
Right: 2343.533 $\pm$ 0.474 χ^2 /NDF: 6969103.9/40

In: 3643.183 $\pm$ 0.561 χ^2 /NDF:6946563.7/41

Out: 3040.489 $\pm$ 0.465 χ^2 /NDF:10940544.0/46

All: 3286.183 $\pm$ 0.358 χ^2 /NDF: 18570639.1/8

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -7428.358+/-6061.889 χ^2/NDF : 0.0/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 8599.987+/-4117.357 χ^2/NDF : 4.2/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

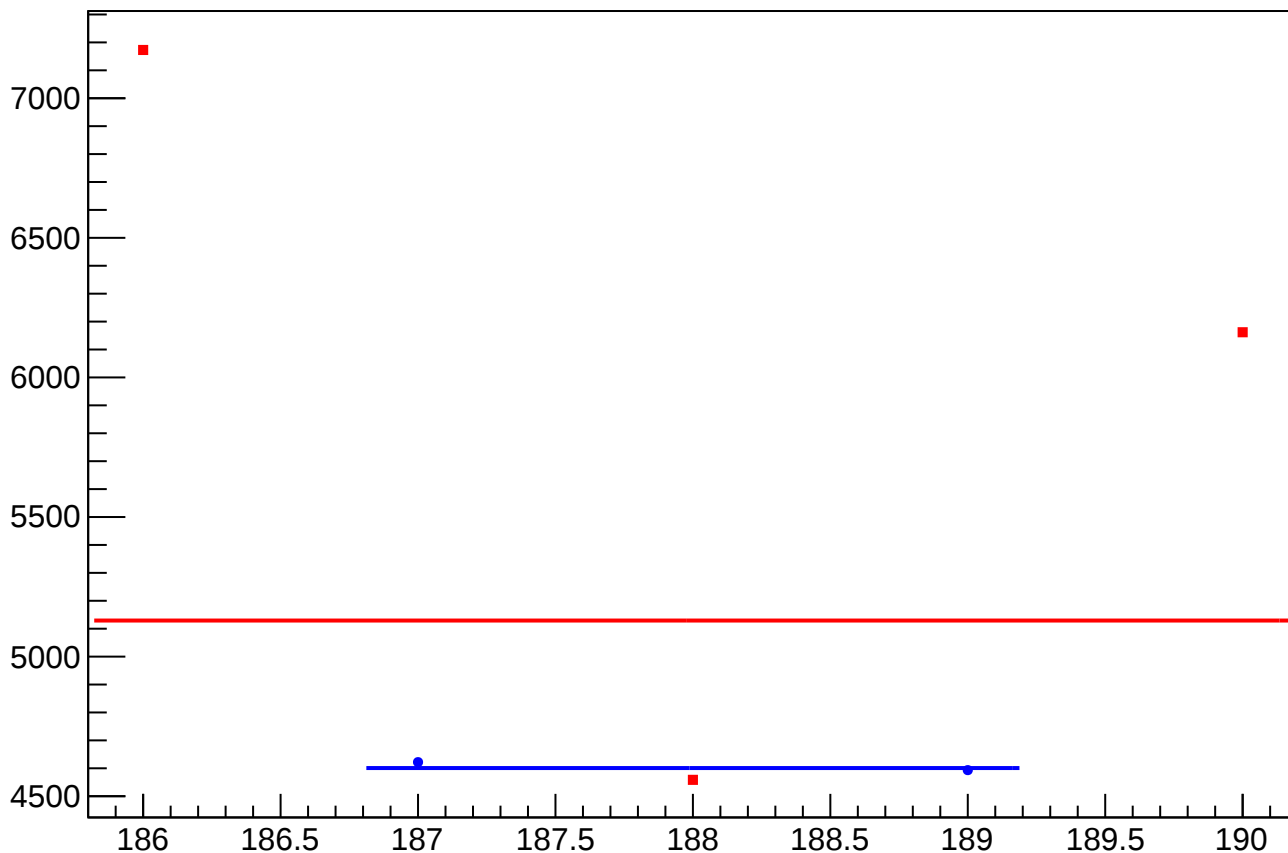
Right: 3539.894+/-3405.986 χ^2/NDF : 9.0/4

In: -7428.358+/-6061.889 χ^2/NDF : 0.0/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 3539.894+/-3405.986 χ^2/NDF : 9.0/4

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 4600.878+/-4.286 χ^2/NDF : 8.6/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5129.238+/-2.911 χ^2/NDF : 108448.7/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

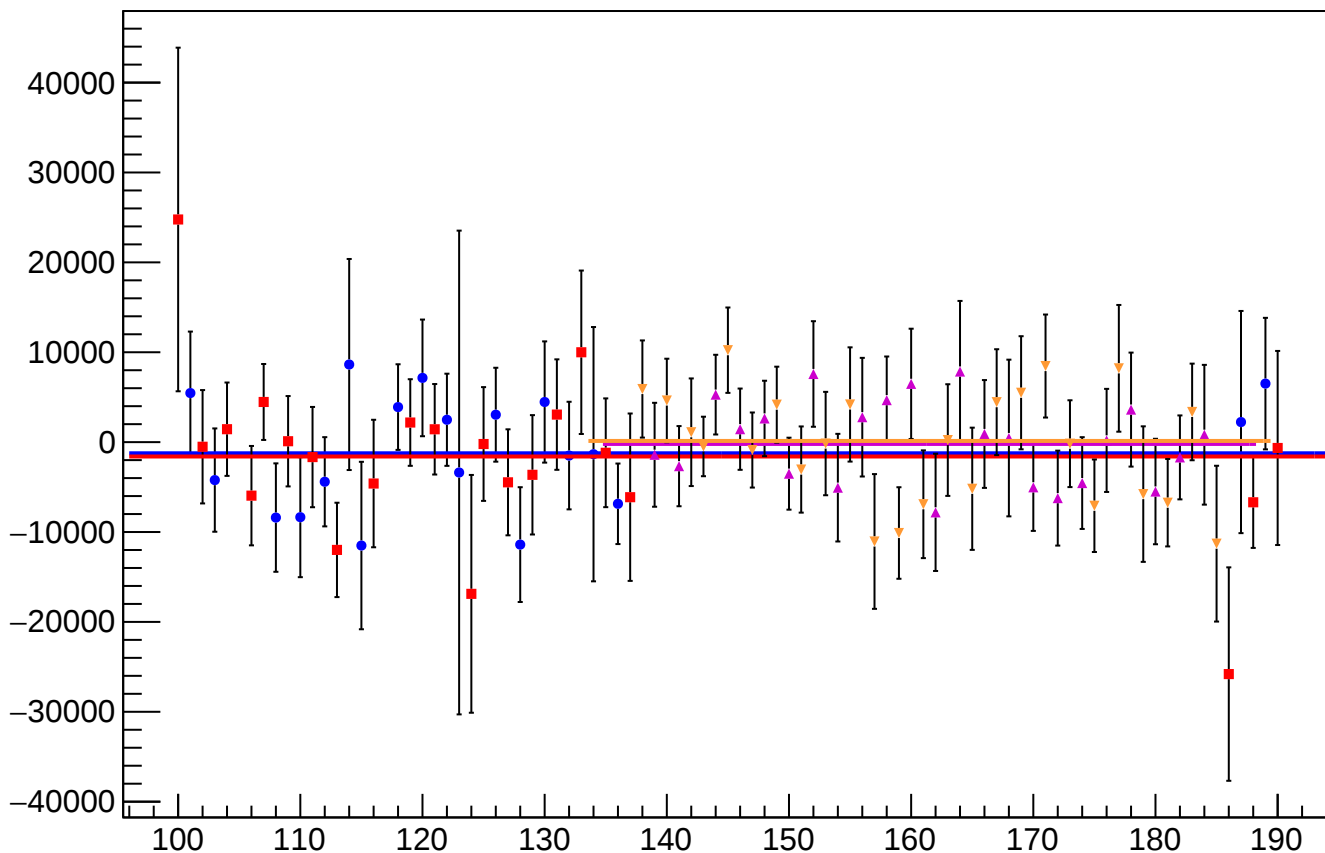
Right: 4962.437+/-2.408 χ^2/NDF : 118854.6/4

In: 4600.878+/-4.286 χ^2/NDF : 8.6/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4962.437+/-2.408 χ^2/NDF : 118854.6/4

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1240.956 $\pm$ 1475.415 χ^2 /NDF: 16.2/18

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: -1597.715 $\pm$ 1315.152 χ^2 /NDF: 19.5/21

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

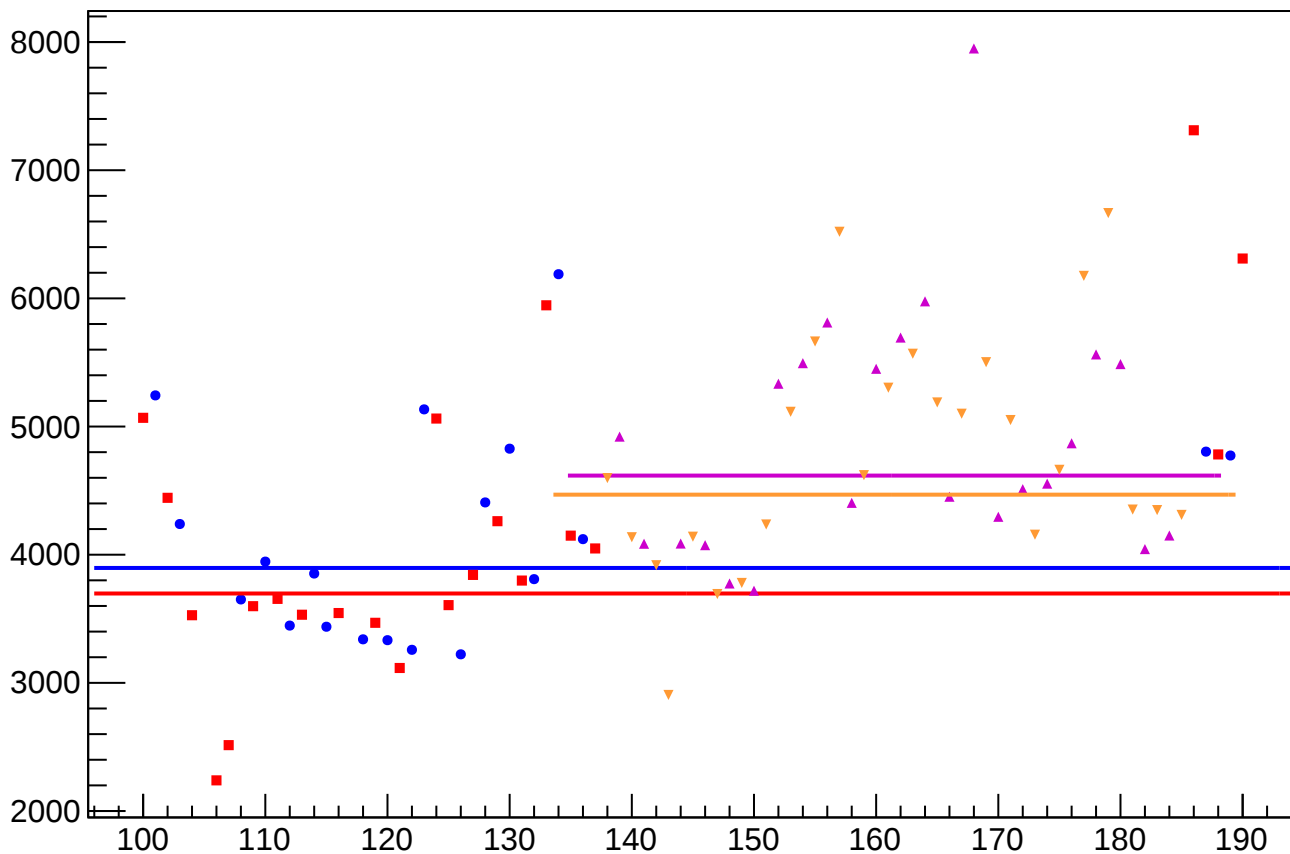
Right: -1439.757 $\pm$ 981.742 χ^2 /NDF: 35.7/40

In: -582.176 $\pm$ 893.850 χ^2 /NDF:31.2/41

Out: -553.388 $\pm$ 827.912 χ^2 /NDF:48.6/46

All: -566.681 $\pm$ 607.397 χ^2 /NDF: 79.9/88

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3896.619+/-1.043 χ^2/NDF : 368781.6/18

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 3697.261+/-0.922 χ^2/NDF : 980721.1/21

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

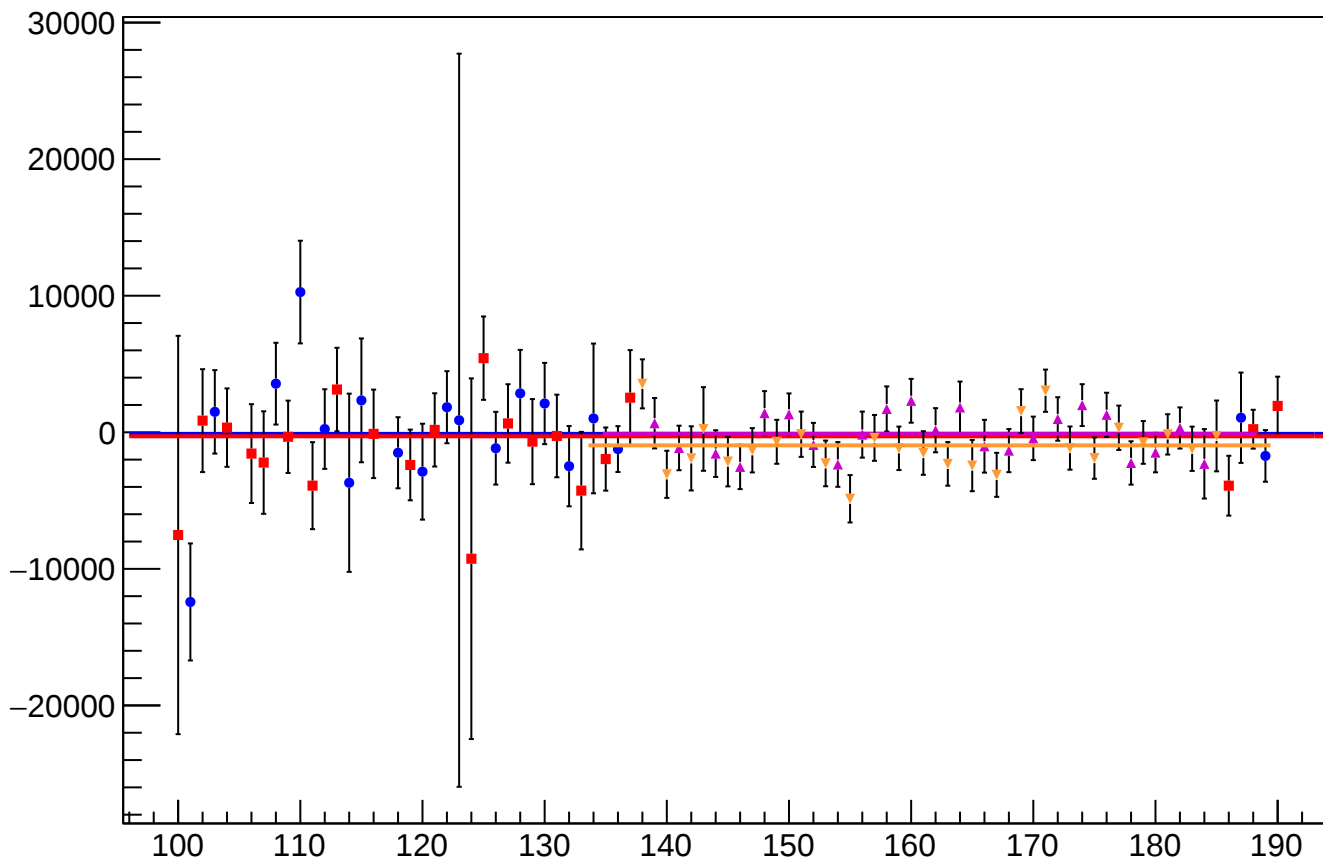
Right: 3784.714+/-0.691 χ^2/NDF : 1370000.6/40

In: 4352.776+/-0.632 χ^2/NDF :1670430.3/41

Out: 4159.802+/-0.583 χ^2/NDF :2780742.7/46

All: 4248.593+/-0.429 χ^2/NDF : 4501500.4/88

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -116.336+/-684.297 χ^2/NDF : 23.3/18

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -293.806+/-601.169 χ^2/NDF : 14.1/21

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

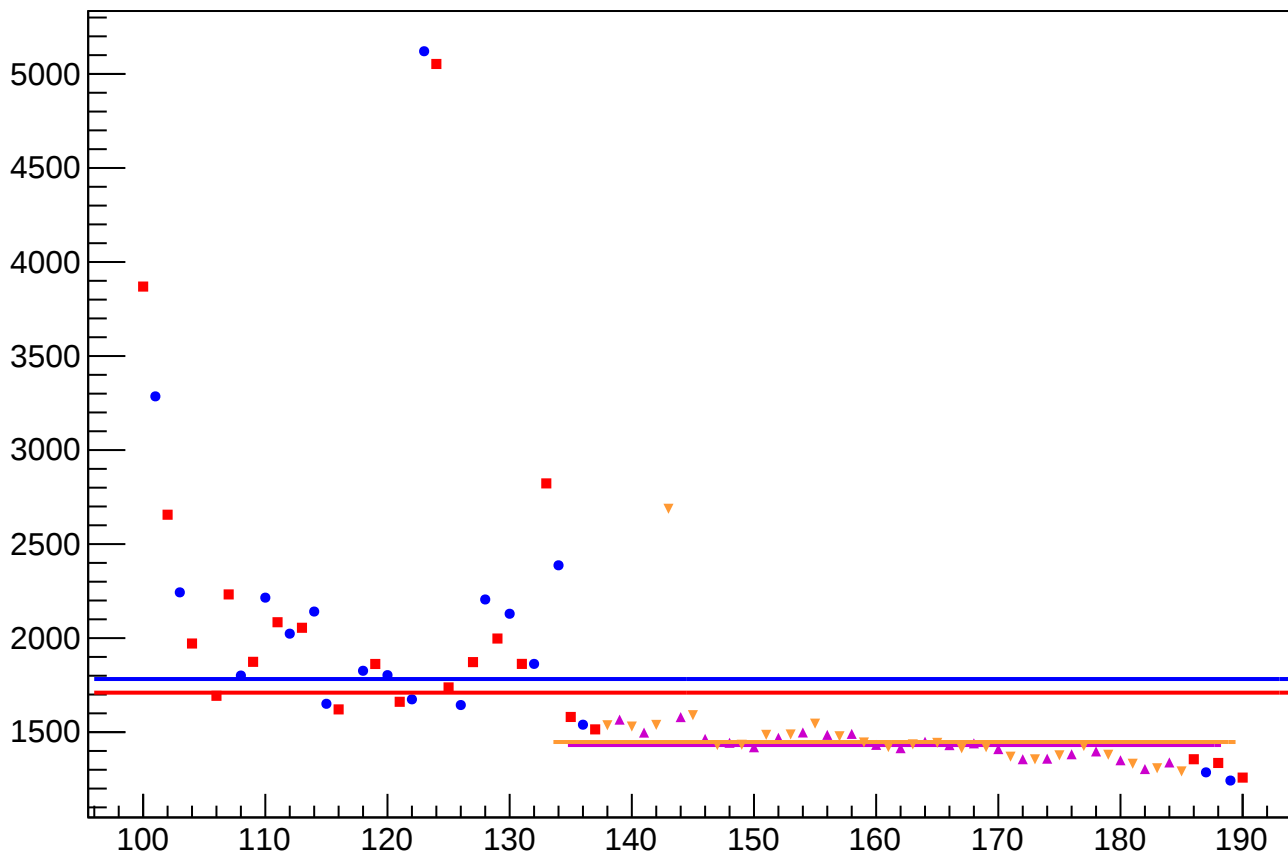
Right: -216.500+/-451.637 χ^2/NDF : 37.4/40

In: -109.289+/-307.109 χ^2/NDF : 42.8/41

Out: -797.708+/-295.615 χ^2/NDF : 43.5/46

All: -466.622+/-212.979 χ^2/NDF : 88.9/88

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1782.485 $\pm$ 0.484 χ^2 /NDF: 718264.6/18

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1709.954 $\pm$ 0.425 χ^2 /NDF: 877950.2/21

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

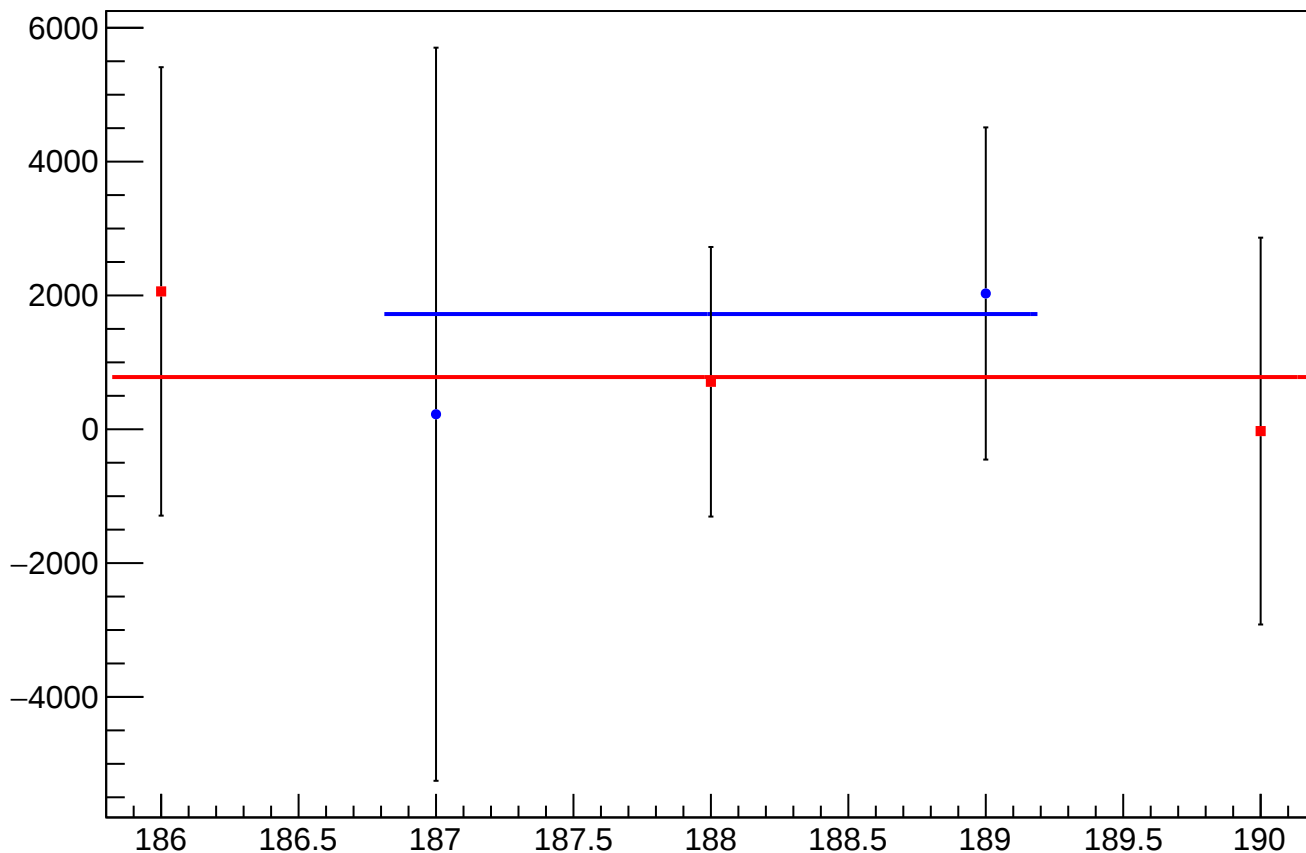
Right: 1741.549 $\pm$ 0.319 χ^2 /NDF: 1608896.5/40

In: 1502.159 $\pm$ 0.217 χ^2 /NDF: 1213687.4/41

Out: 1511.004 $\pm$ 0.209 χ^2 /NDF: 1586108.7/46

All: 1506.750 $\pm$ 0.151 χ^2 /NDF: 2800657.2/88

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1722.009+/-2260.946 χ^2/NDF : 0.1/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 780.374+/-1482.273 χ^2/NDF : 0.2/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

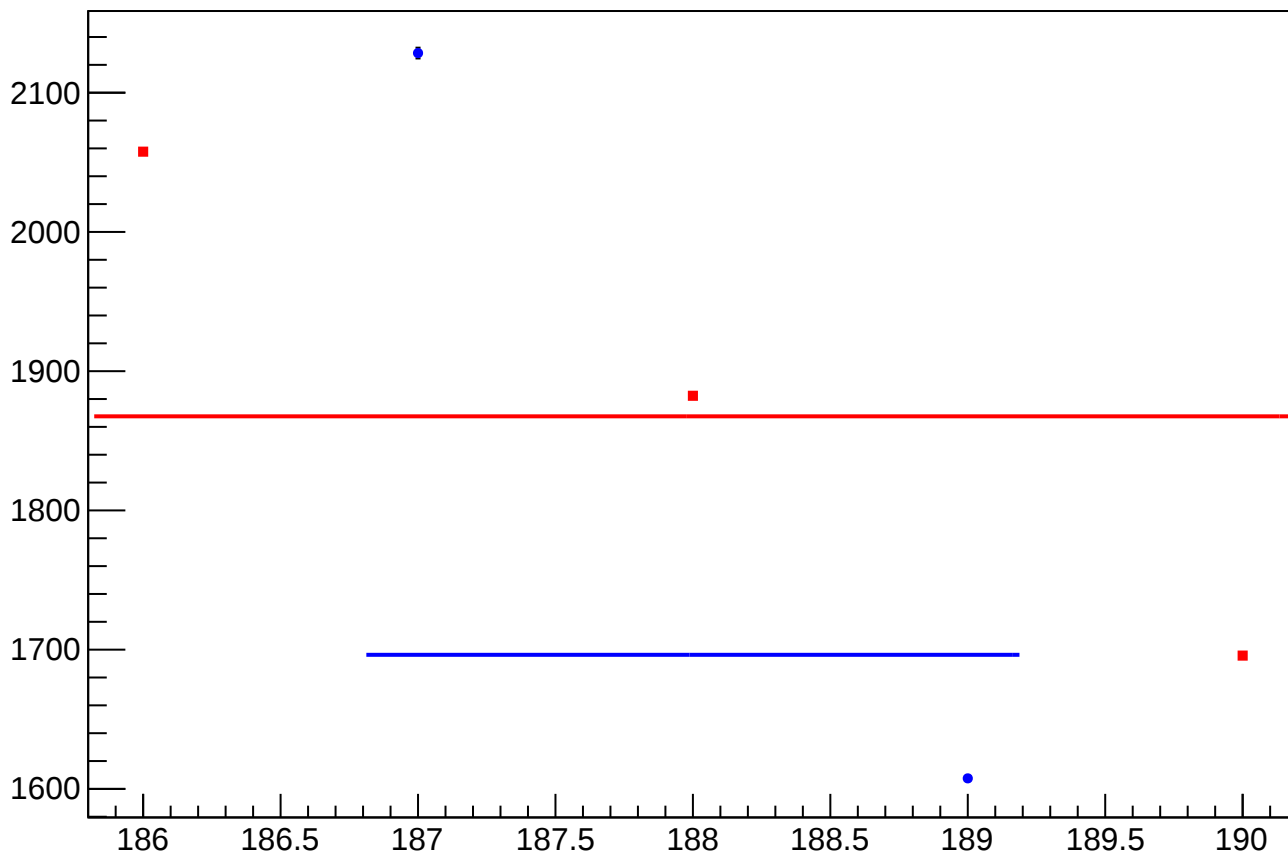
Right: 1063.435+/-1239.622 χ^2/NDF : 0.4/4

In: 1722.009+/-2260.946 χ^2/NDF : 0.1/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1063.435+/-1239.622 χ^2/NDF : 0.4/4

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1696.295+/-1.599 χ^2/NDF : 15002.0/1

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1867.572+/-1.048 χ^2/NDF : 13609.9/2

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

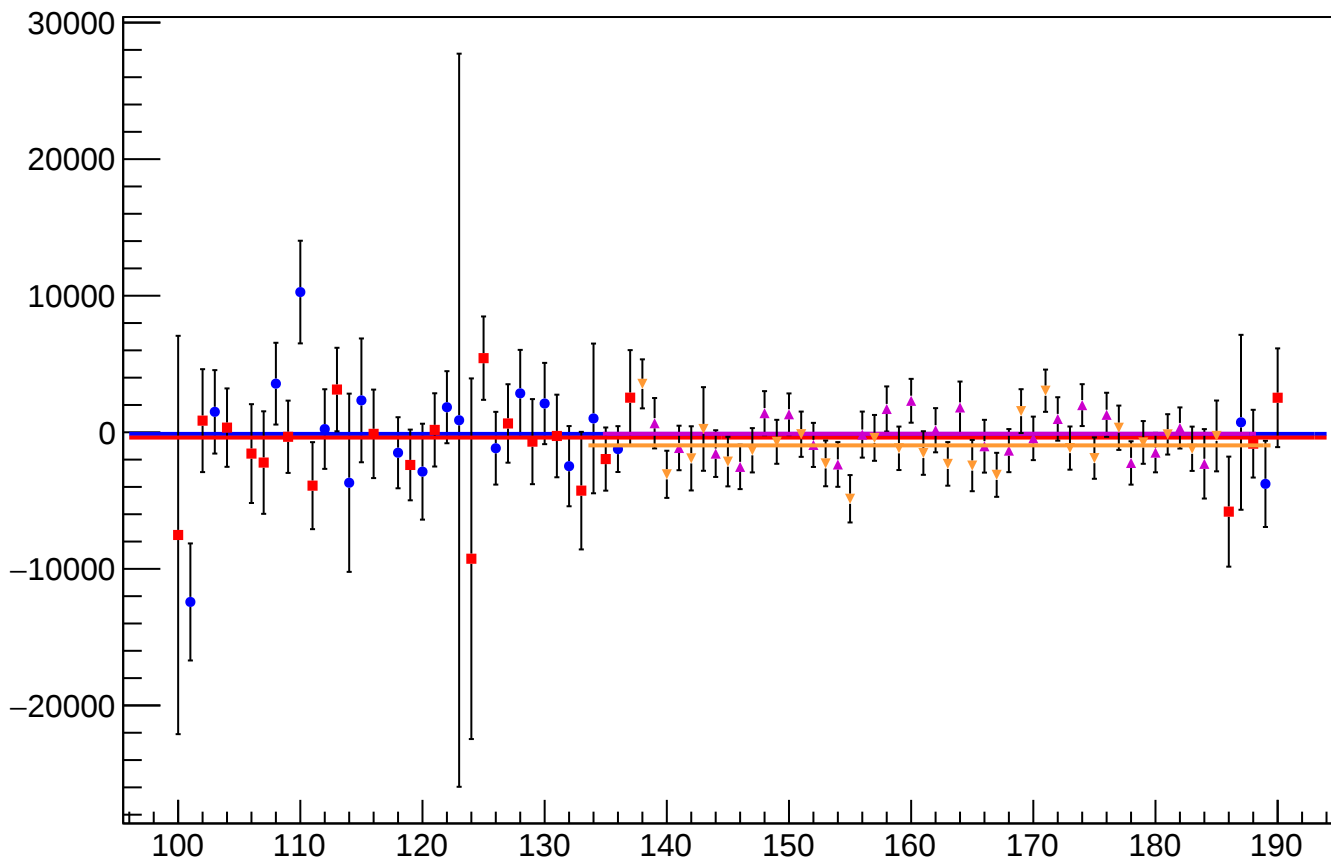
Right: 1816.085+/-0.877 χ^2/NDF : 36639.2/4

In: 1696.295+/-1.599 χ^2/NDF : 15002.0/1

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1816.085+/-0.877 χ^2/NDF : 36639.2/4

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -117.936+/-727.584 χ^2/NDF : 23.8/18

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -387.184+/-682.559 χ^2/NDF : 12.6/21

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

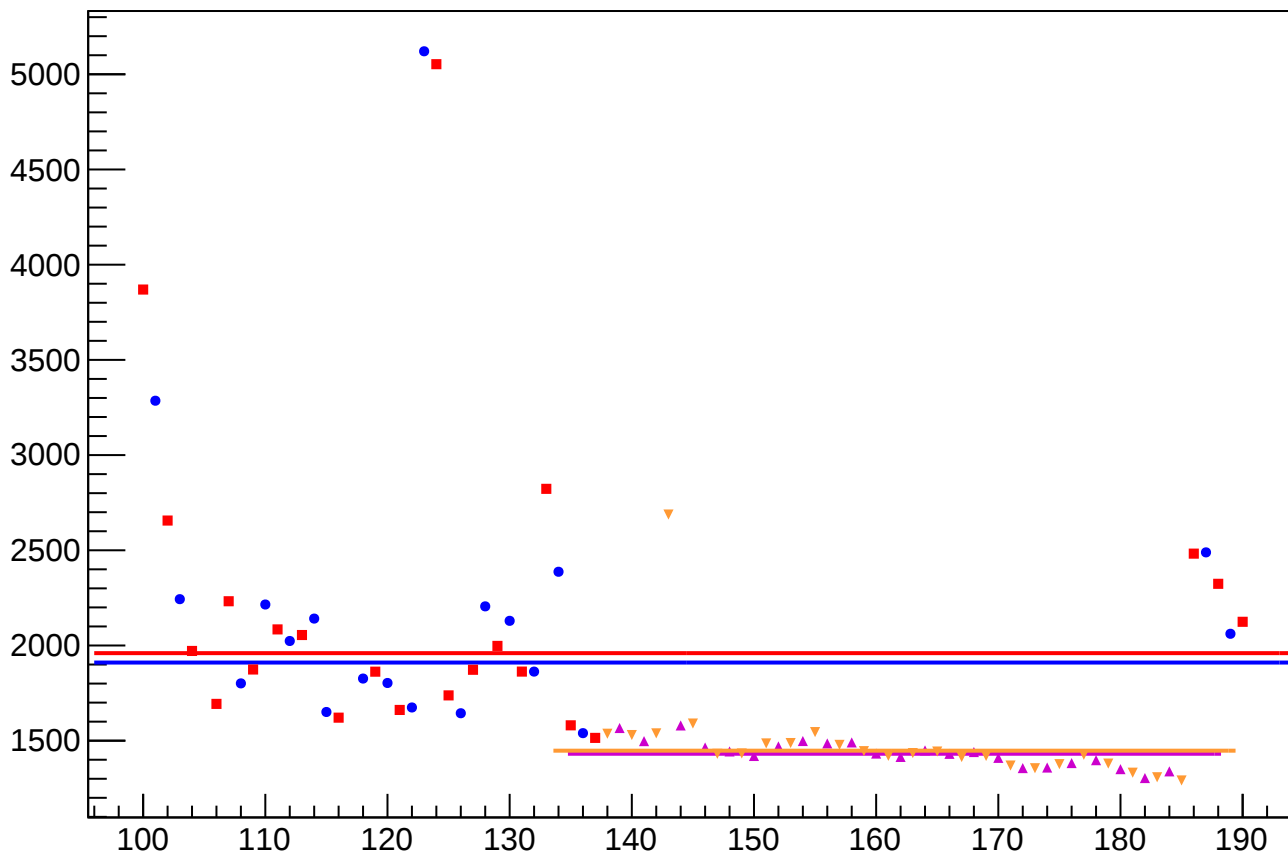
Right: -261.148+/-497.799 χ^2/NDF : 36.5/40

In: -109.414+/-310.743 χ^2/NDF : 43.3/41

Out: -845.119+/-303.972 χ^2/NDF : 41.7/46

All: -485.370+/-217.295 χ^2/NDF : 87.9/88

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1910.381+/-0.514 χ^2/NDF : 488328.6/18

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1959.812+/-0.483 χ^2/NDF : 552855.1/21

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

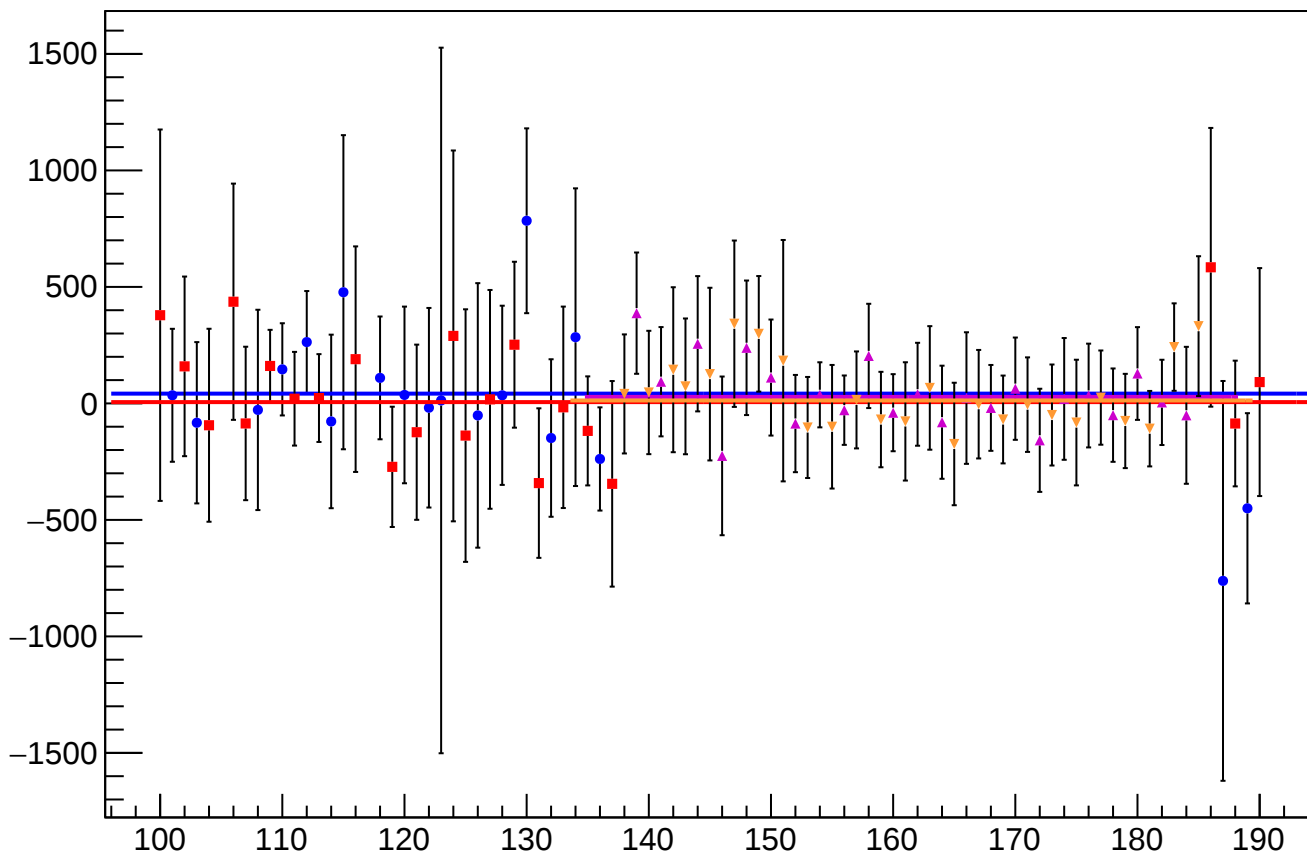
Right: 1936.674+/-0.352 χ^2/NDF : 1046093.9/40

In: 1518.815+/-0.220 χ^2/NDF : 1271963.5/41

Out: 1549.152+/-0.215 χ^2/NDF : 1875201.4/46

All: 1534.318+/-0.154 χ^2/NDF : 3156906.1/88

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 41.968 $\pm$ 78.029 χ^2 /NDF: 10.0/18

Left Out: 12.618 $\pm$ 47.486 χ^2 /NDF:7.7/24

Right Out: 5.561 $\pm$ 66.714 χ^2 /NDF: 7.5/21

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

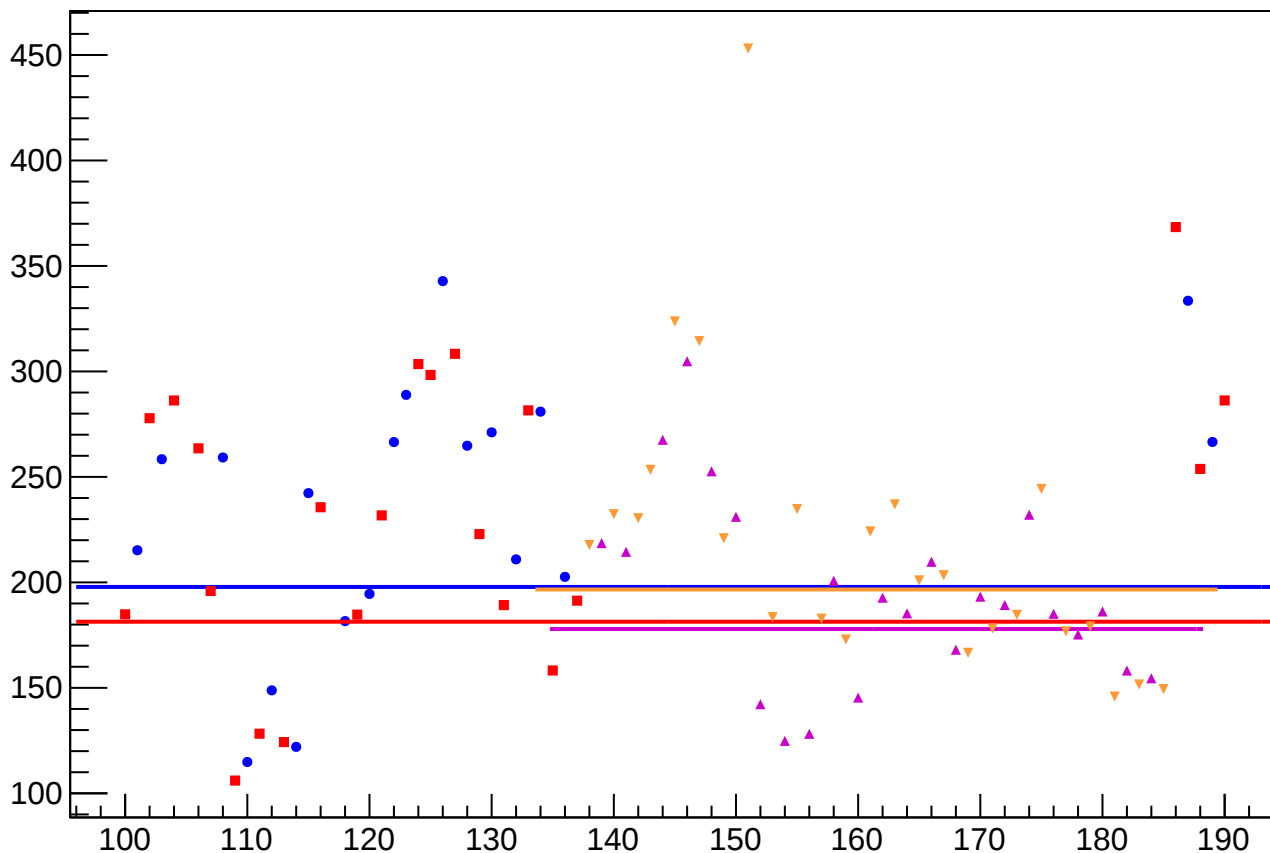
Right: 20.936 $\pm$ 50.707 χ^2 /NDF: 17.6/40

In: 31.371 $\pm$ 38.671 χ^2 /NDF:16.5/41

Out: 10.245 $\pm$ 38.687 χ^2 /NDF:15.2/46

All: 20.812 $\pm$ 27.350 χ^2 /NDF: 31.9/88

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.835 $\pm$ 0.055 χ^2 /NDF: 1123176.1/18

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF: 1793507.9/24

Right Out: 181.353 $\pm$ 0.047 χ^2 /NDF: 2040905.0/21

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

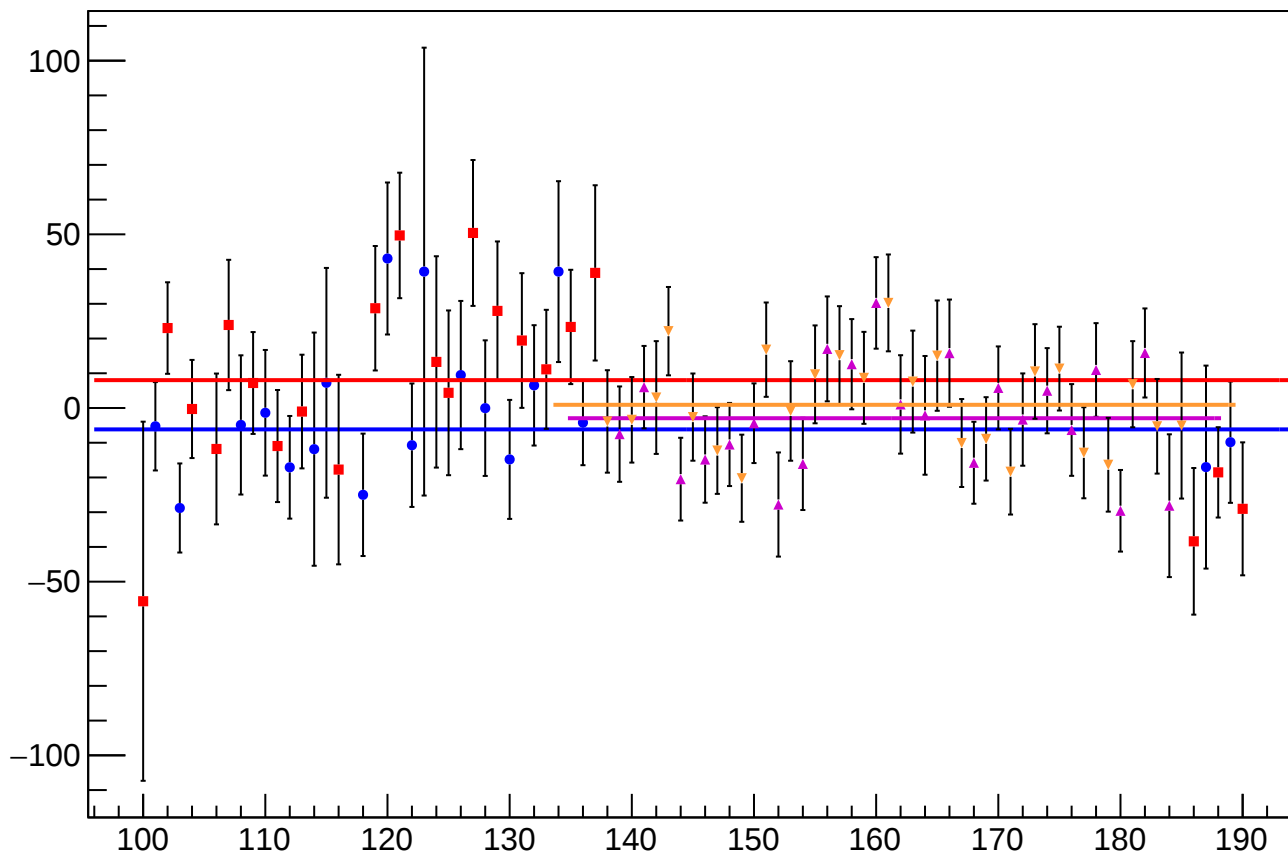
Right: 188.314 $\pm$ 0.036 χ^2 /NDF: 3215633.9/40

In: 182.780 $\pm$ 0.027 χ^2 /NDF: 2865965.6/41

Out: 191.486 $\pm$ 0.027 χ^2 /NDF: 3903926.3/46

All: 187.131 $\pm$ 0.019 χ^2 /NDF: 6820558.2/88

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.158 ± 4.188 $\chi^2/\text{NDF}: 15.4/18$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 8.020 ± 3.901 $\chi^2/\text{NDF}: 34.6/21$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

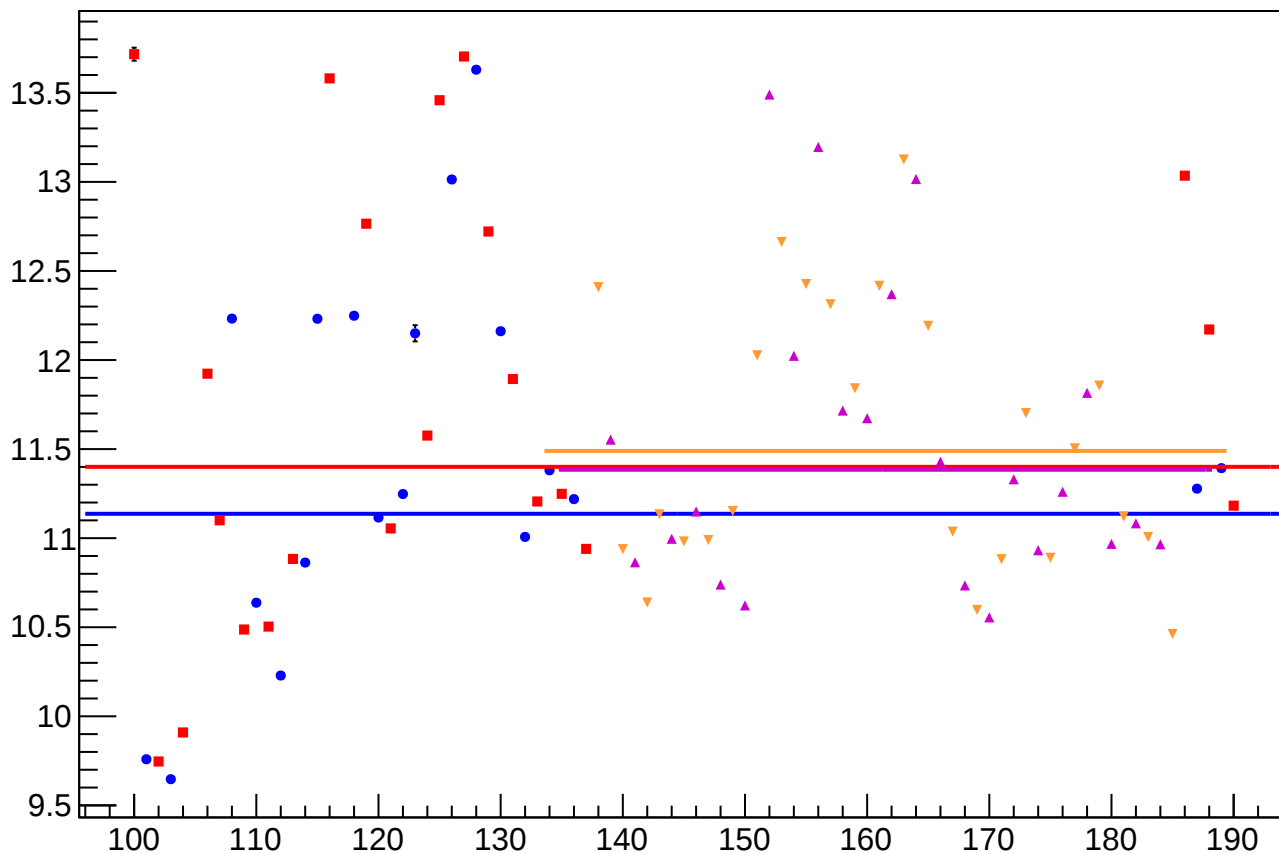
Right: 1.432 ± 2.855 $\chi^2/\text{NDF}: 56.1/40$

In: -3.908 ± 2.296 $\chi^2/\text{NDF}: 46.8/41$

Out: 3.215 ± 2.218 $\chi^2/\text{NDF}: 60.8/46$

All: -0.224 ± 1.595 $\chi^2/\text{NDF}: 112.6/88$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.137 $\pm$ 0.003 χ^2/NDF : 132466.1/18

Left Out: 11.490 $\pm$ 0.002 χ^2/NDF :132399.1/24

Right Out: 11.400 $\pm$ 0.003 χ^2/NDF : 170107.8/21

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

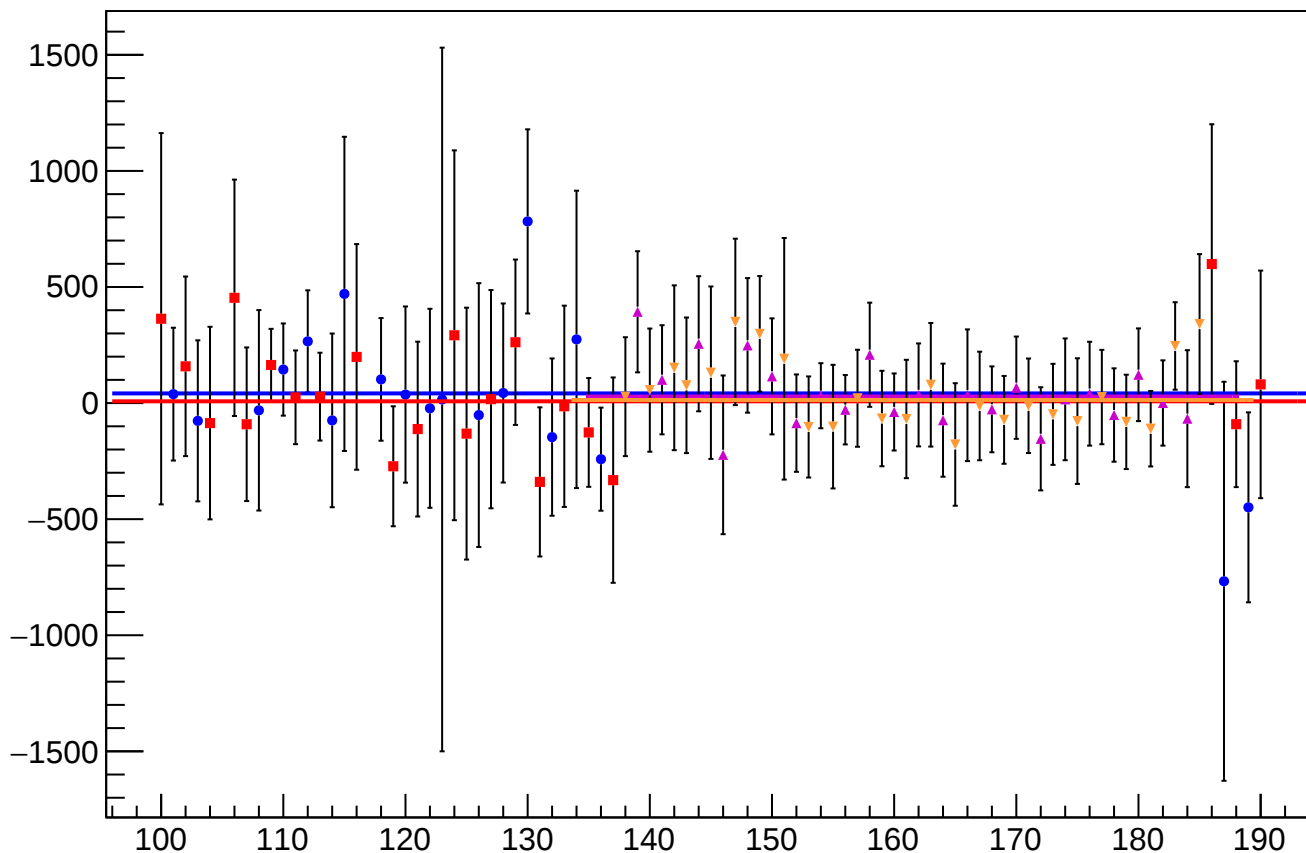
Right: 11.278 $\pm$ 0.002 χ^2/NDF : 306816.3/40

In: 11.310 $\pm$ 0.002 χ^2/NDF :287142.8/41

Out: 11.461 $\pm$ 0.002 χ^2/NDF :303216.6/46

All: 11.388 $\pm$ 0.001 χ^2/NDF : 594841.2/88

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 41.656 $\pm$ 78.232 χ^2 /NDF: 9.9/18

Left Out: 13.323 $\pm$ 47.662 χ^2 /NDF: 7.9/24

Right Out: 7.642 $\pm$ 66.919 χ^2 /NDF: 7.6/21

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

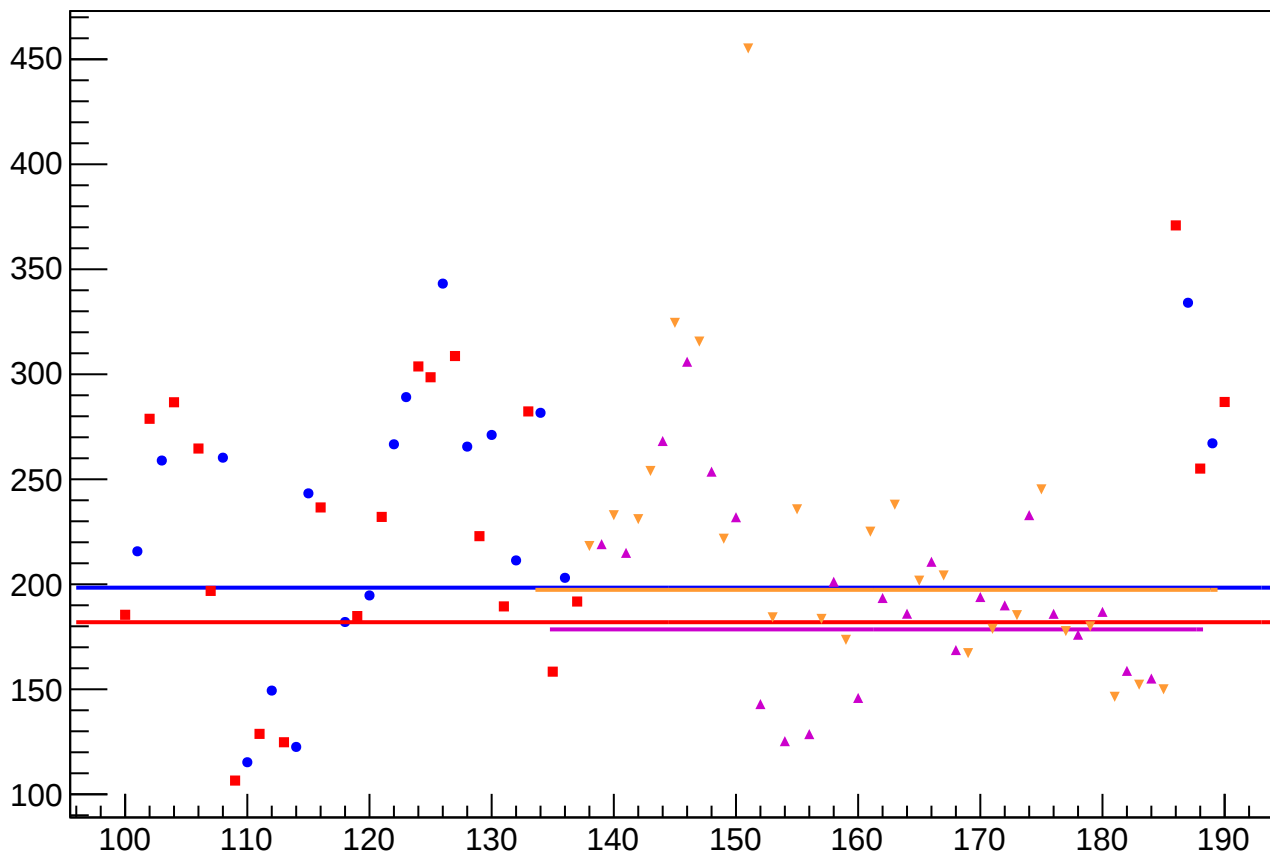
Right: 22.014 $\pm$ 50.853 χ^2 /NDF: 17.7/40

In: 31.397 $\pm$ 38.799 χ^2 /NDF: 16.6/41

Out: 11.411 $\pm$ 38.822 χ^2 /NDF: 15.5/46

All: 21.409 $\pm$ 27.443 χ^2 /NDF: 32.2/88

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.391 $\pm$ 0.055 χ^2 /NDF: 1117806.8/18

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF: 1790824.5/24

Right Out: 181.944 $\pm$ 0.047 χ^2 /NDF: 2036041.0/21

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

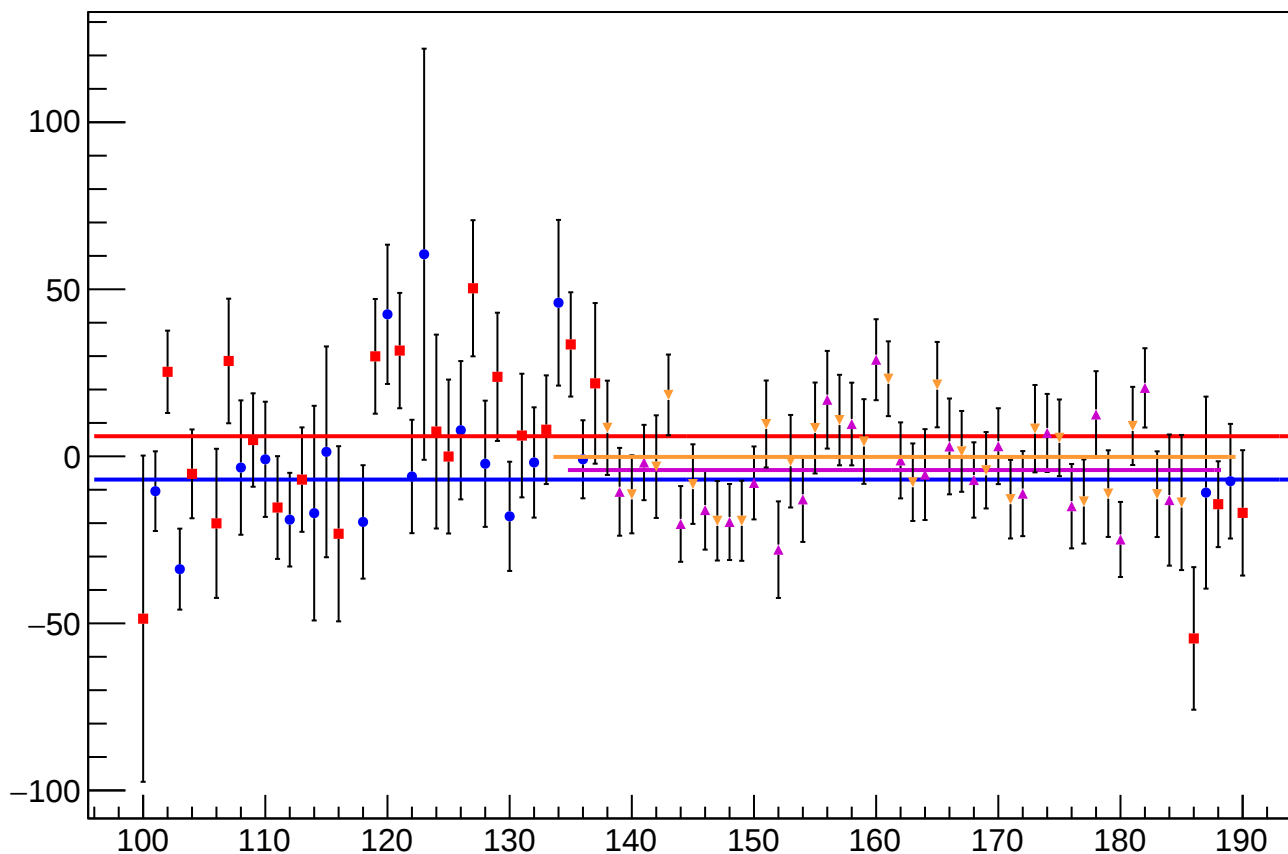
Right: 188.893 $\pm$ 0.036 χ^2 /NDF: 3204893.5/40

In: 183.402 $\pm$ 0.027 χ^2 /NDF: 2857480.7/41

Out: 192.168 $\pm$ 0.027 χ^2 /NDF: 3897241.5/46

All: 187.782 $\pm$ 0.019 χ^2 /NDF: 6805748.7/88

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.952 ± 4.005 $\chi^2/\text{NDF}: 19.4/18$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 6.019 ± 3.753 $\chi^2/\text{NDF}: 36.5/21$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

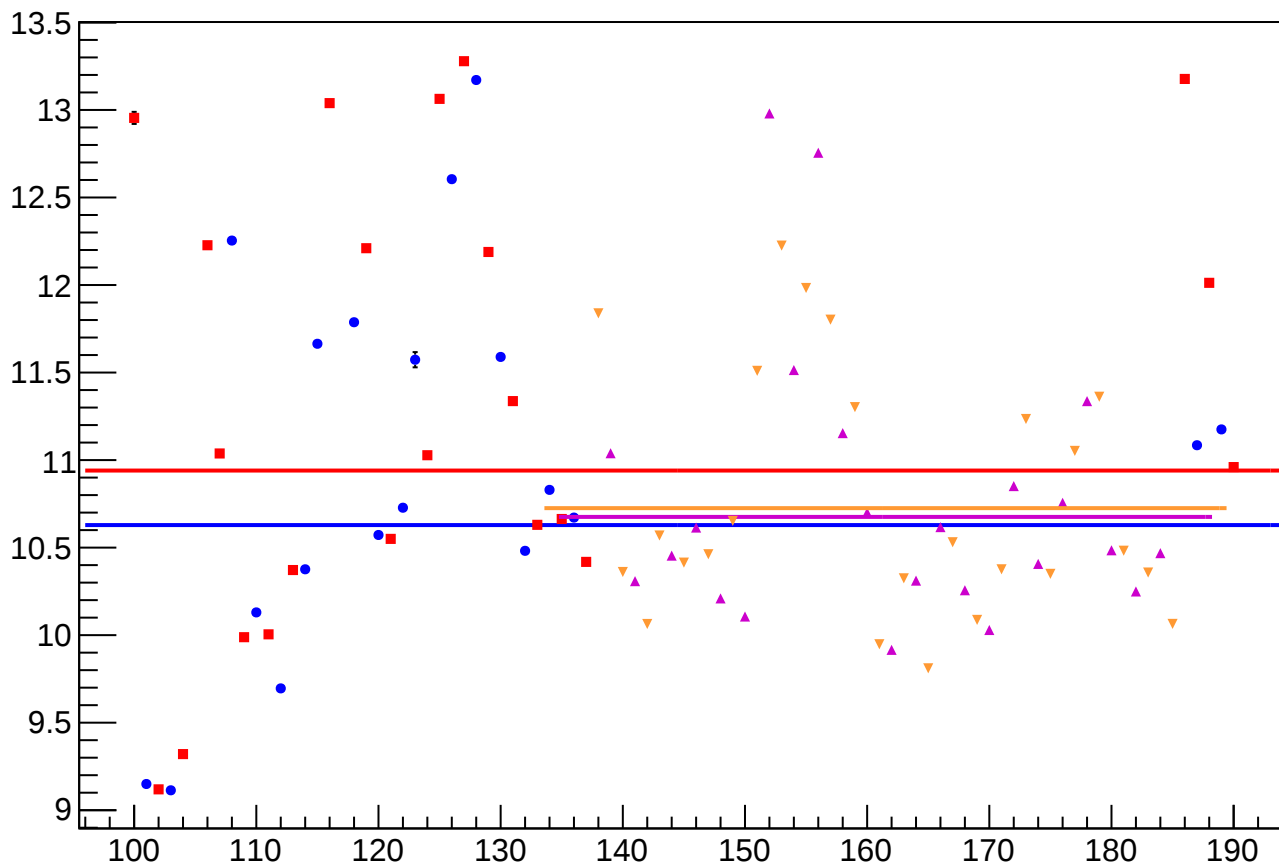
Right: -0.045 ± 2.738 $\chi^2/\text{NDF}: 61.5/40$

In: -4.940 ± 2.167 $\chi^2/\text{NDF}: 51.3/41$

Out: 1.754 ± 2.092 $\chi^2/\text{NDF}: 62.7/46$

All: -1.475 ± 1.505 $\chi^2/\text{NDF}: 119.0/88$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.629 $\pm$ 0.003 χ^2 /NDF: 161956.8/18

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.940 $\pm$ 0.003 χ^2 /NDF: 218481.7/21

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

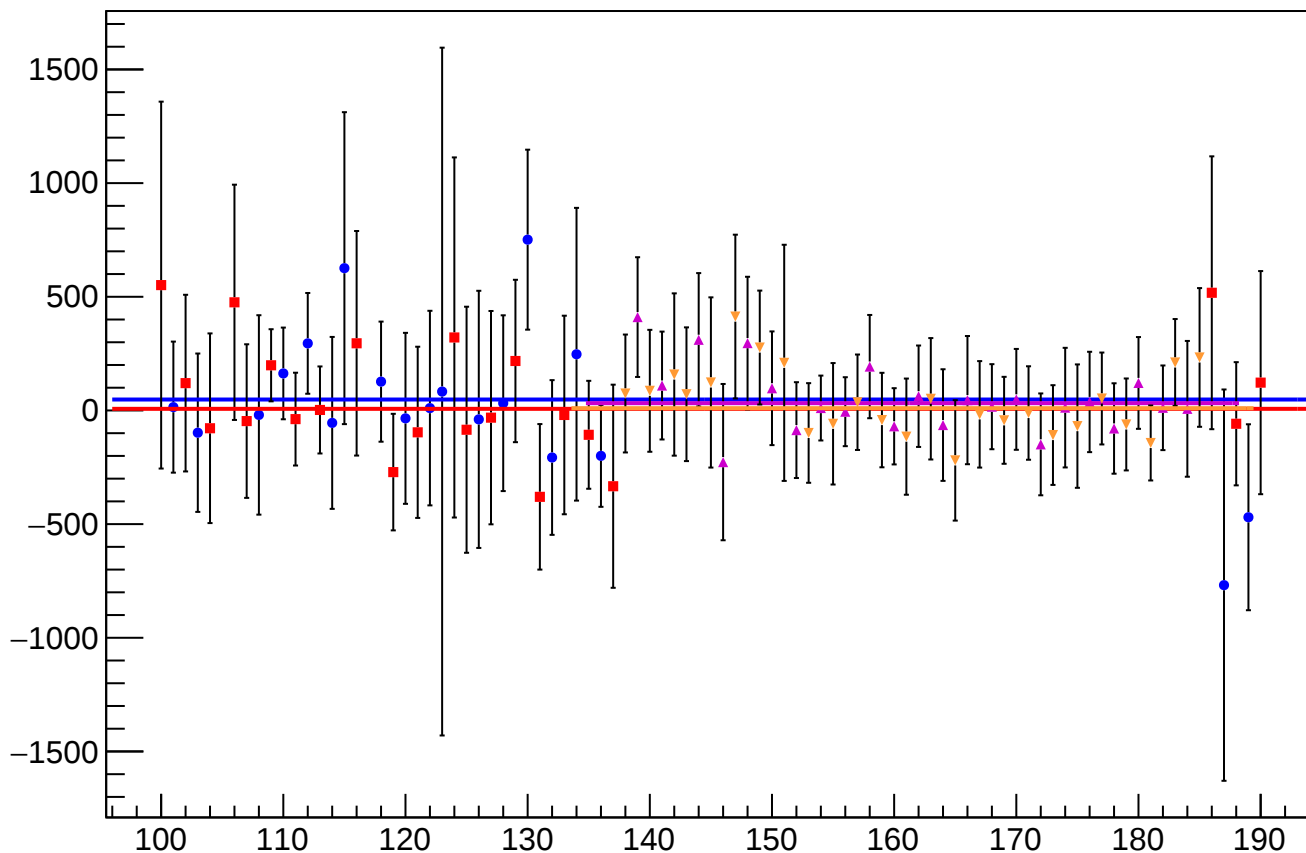
Right: 10.795 $\pm$ 0.002 χ^2 /NDF: 386878.5/40

In: 10.662 $\pm$ 0.002 χ^2 /NDF:308086.9/41

Out: 10.792 $\pm$ 0.001 χ^2 /NDF:355165.8/46

All: 10.729 $\pm$ 0.001 χ^2 /NDF: 667003.1/88

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 48.105 $\pm$ 78.731 χ^2 /NDF: 10.3/18

Left Out: 9.801 $\pm$ 47.979 χ^2 /NDF: 7.5/24

Right Out: 7.087 $\pm$ 67.496 χ^2 /NDF: 8.2/21

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

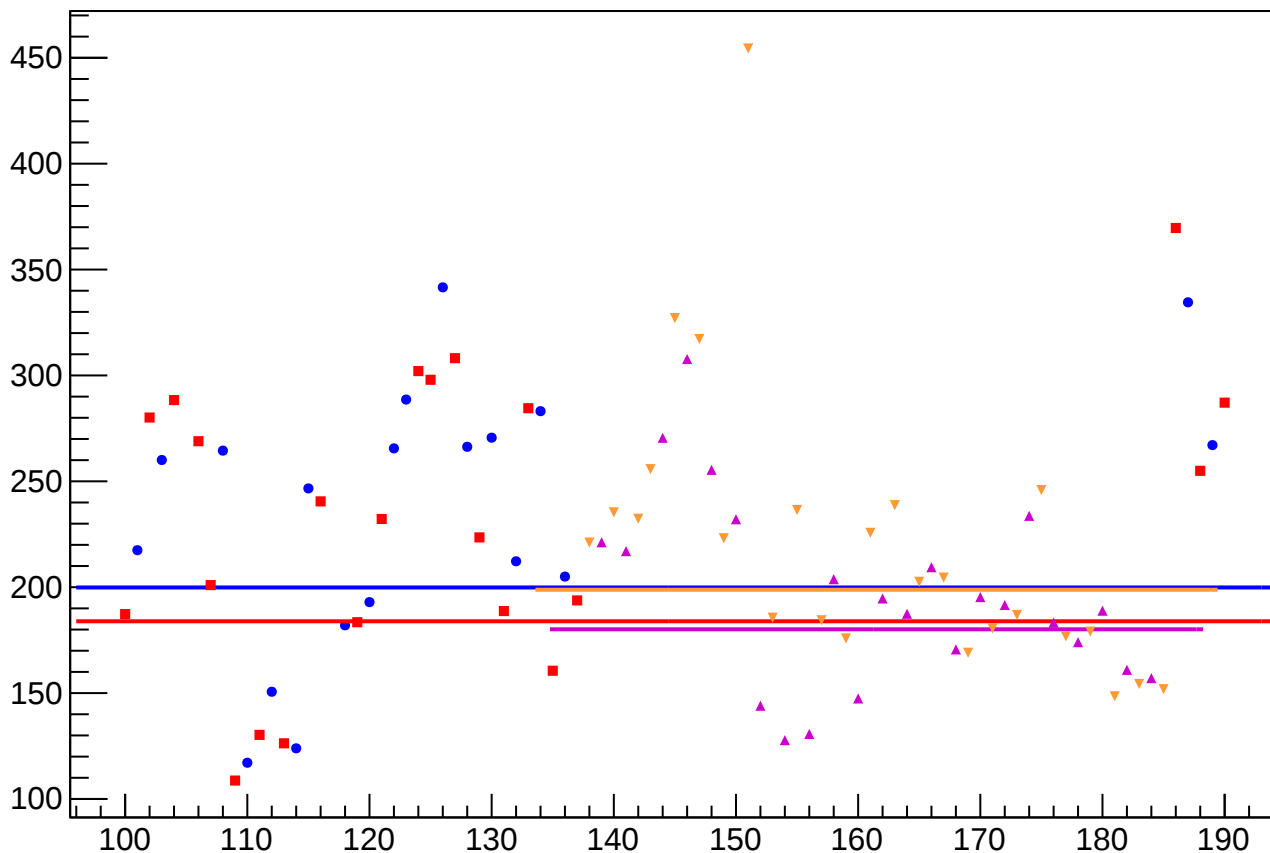
Right: 24.463 $\pm$ 51.243 χ^2 /NDF: 18.6/40

In: 35.962 $\pm$ 39.094 χ^2 /NDF: 17.5/41

Out: 8.890 $\pm$ 39.105 χ^2 /NDF: 15.7/46

All: 22.430 $\pm$ 27.648 χ^2 /NDF: 33.5/88

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.876+/-0.056 χ^2/NDF : 1088555.7/18

Left Out: 198.800+/-0.034 χ^2/NDF : 1763119.1/24

Right Out: 183.912+/-0.048 χ^2/NDF : 1978234.6/21

Left In: 180.123+/-0.032 χ^2/NDF : 1593842.6/22

Left: 188.872+/-0.023 χ^2/NDF : 3518071.9/47

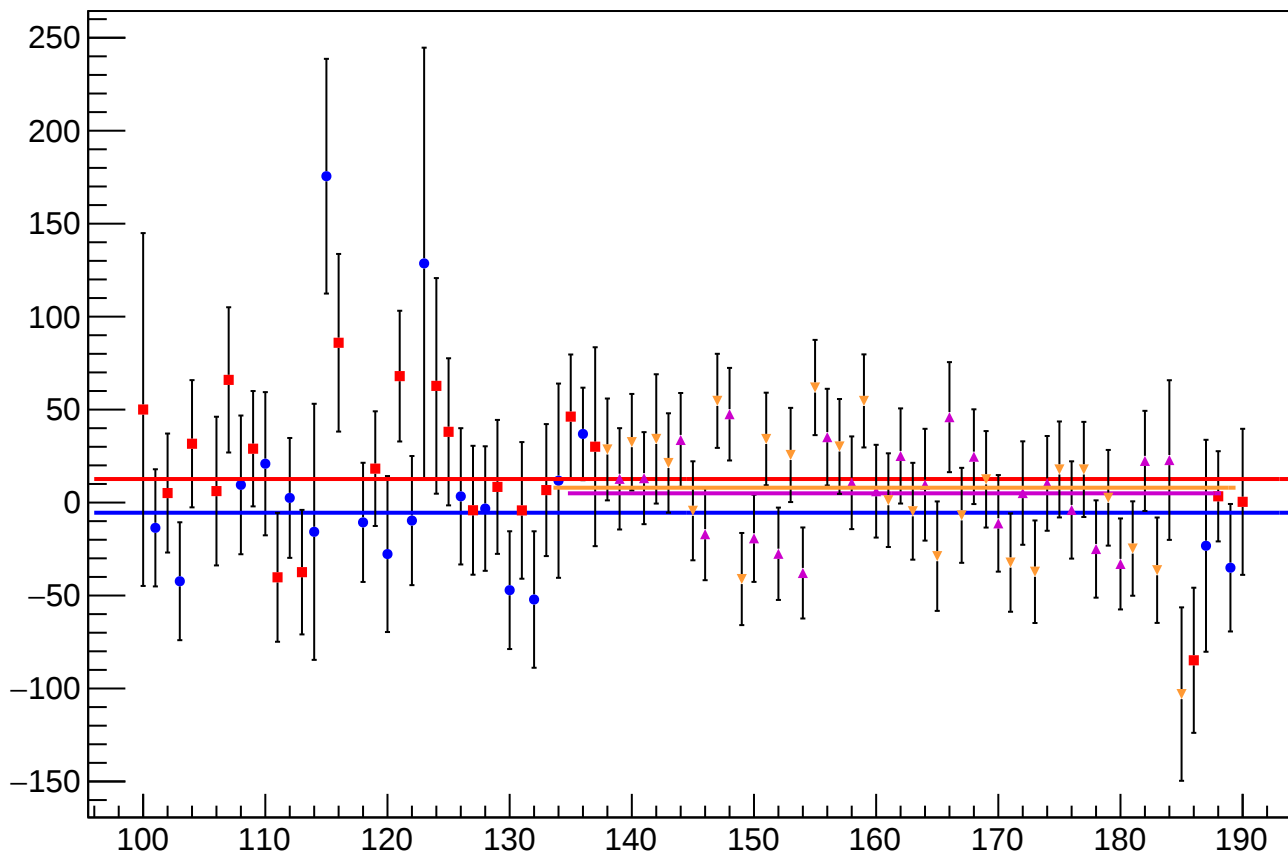
Right: 190.675+/-0.036 χ^2/NDF : 3114180.0/40

In: 184.993+/-0.028 χ^2/NDF : 2777247.0/41

Out: 193.803+/-0.028 χ^2/NDF : 3805995.3/46

All: 189.397+/-0.020 χ^2/NDF : 6634006.9/88

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.470 ± 8.519 χ^2/NDF : 19.3/18

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 12.662 ± 7.760 χ^2/NDF : 21.4/21

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

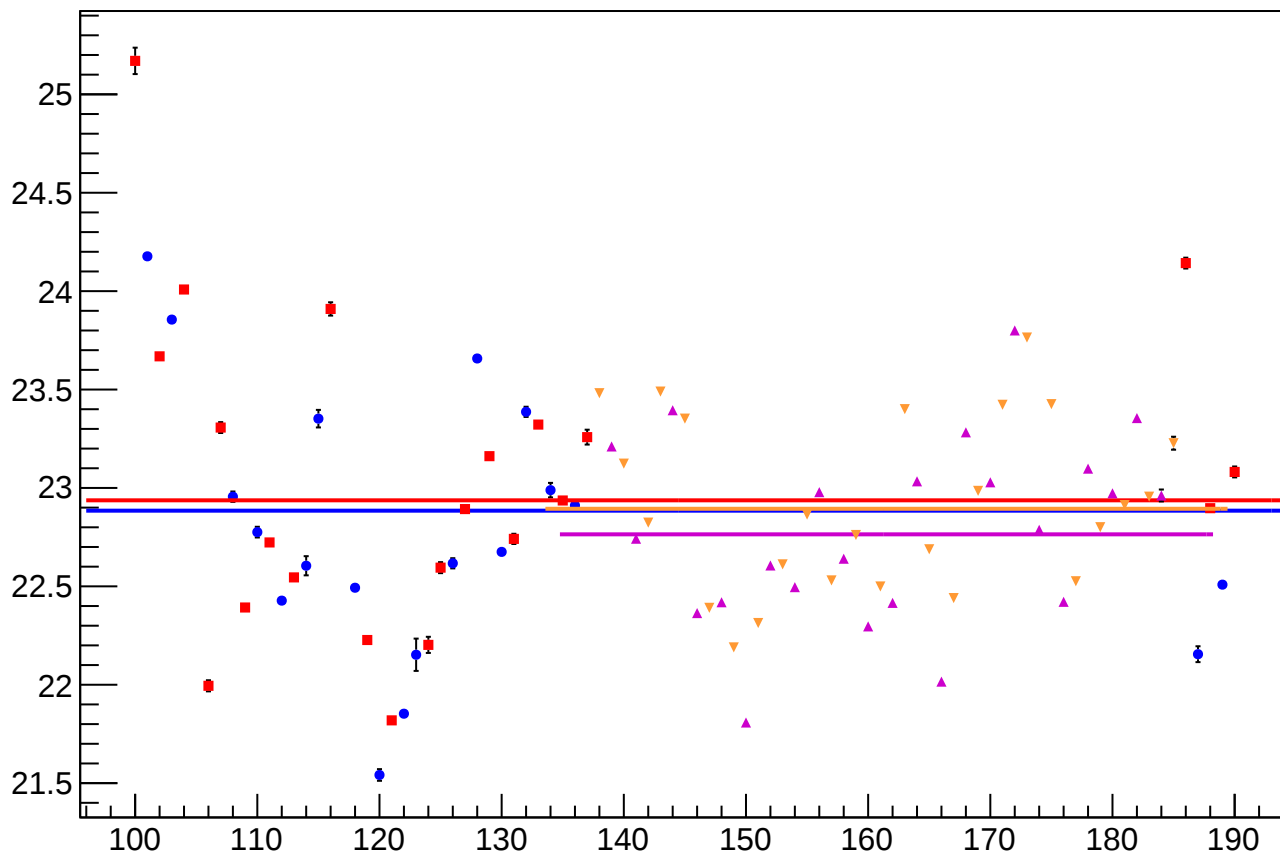
Right: 4.439 ± 5.737 χ^2/NDF : 43.1/40

In: 1.944 ± 4.588 χ^2/NDF : 40.8/41

Out: 9.486 ± 4.392 χ^2/NDF : 59.0/46

All: 5.880 ± 3.172 χ^2/NDF : 101.2/88

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.885 $\pm$ 0.006 χ^2/NDF : 12215.6/18

Left Out: 22.894 $\pm$ 0.004 χ^2/NDF : 13070.5/24

Right Out: 22.937 $\pm$ 0.005 χ^2/NDF : 13137.3/21

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

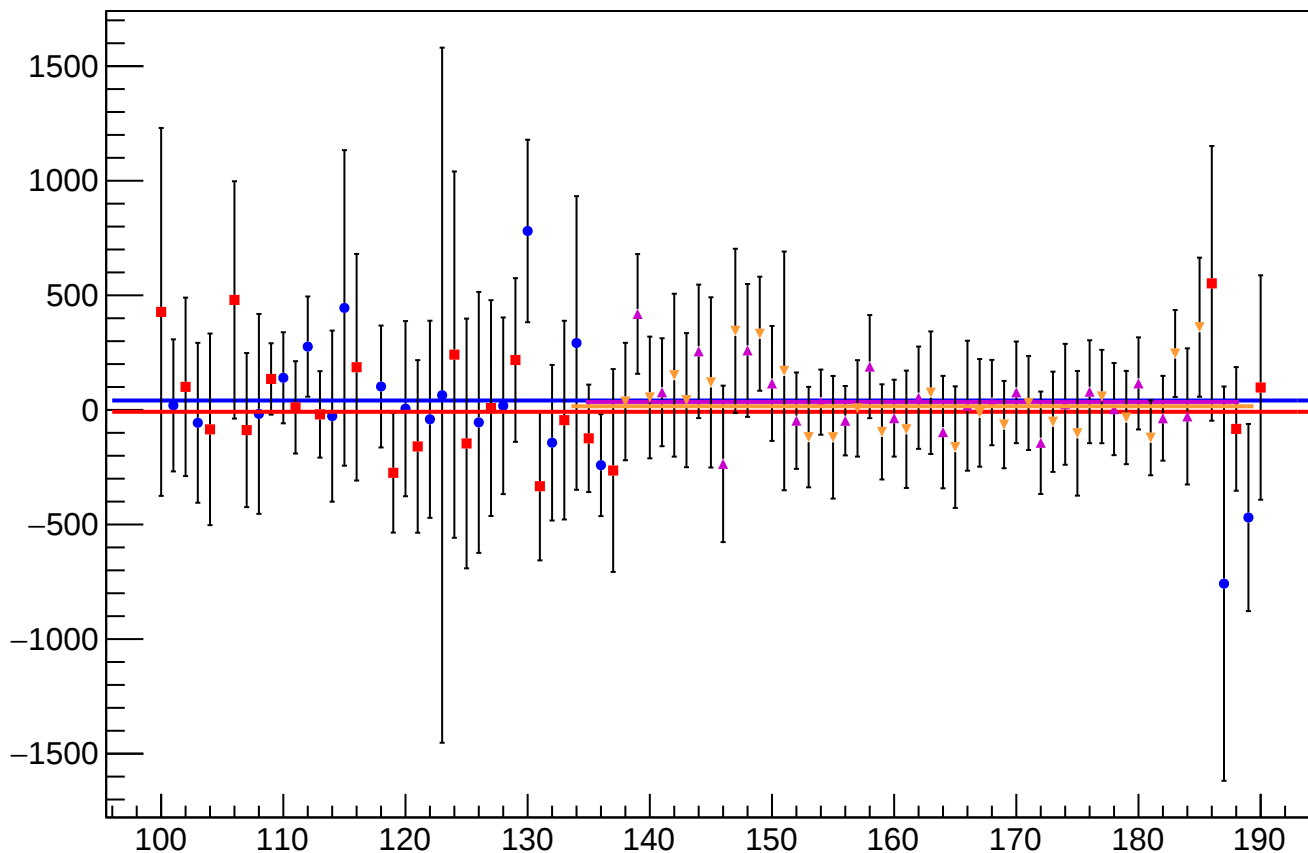
Right: 22.913 $\pm$ 0.004 χ^2/NDF : 25394.5/40

In: 22.799 $\pm$ 0.003 χ^2/NDF : 27164.3/41

Out: 22.908 $\pm$ 0.003 χ^2/NDF : 26249.5/46

All: 22.856 $\pm$ 0.002 χ^2/NDF : 54000.1/88

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 41.115 $\pm$ 78.396 χ^2 /NDF: 10.0/18

Left Out: 15.904 $\pm$ 47.898 χ^2 /NDF:8.4/24

Right Out: -8.174 $\pm$ 67.044 χ^2 /NDF: 6.7/21

Left In: 34.919 $\pm$ 44.971 χ^2 /NDF:6.6/22

Left: 26.010 $\pm$ 32.785 χ^2 /NDF: 15.1/47

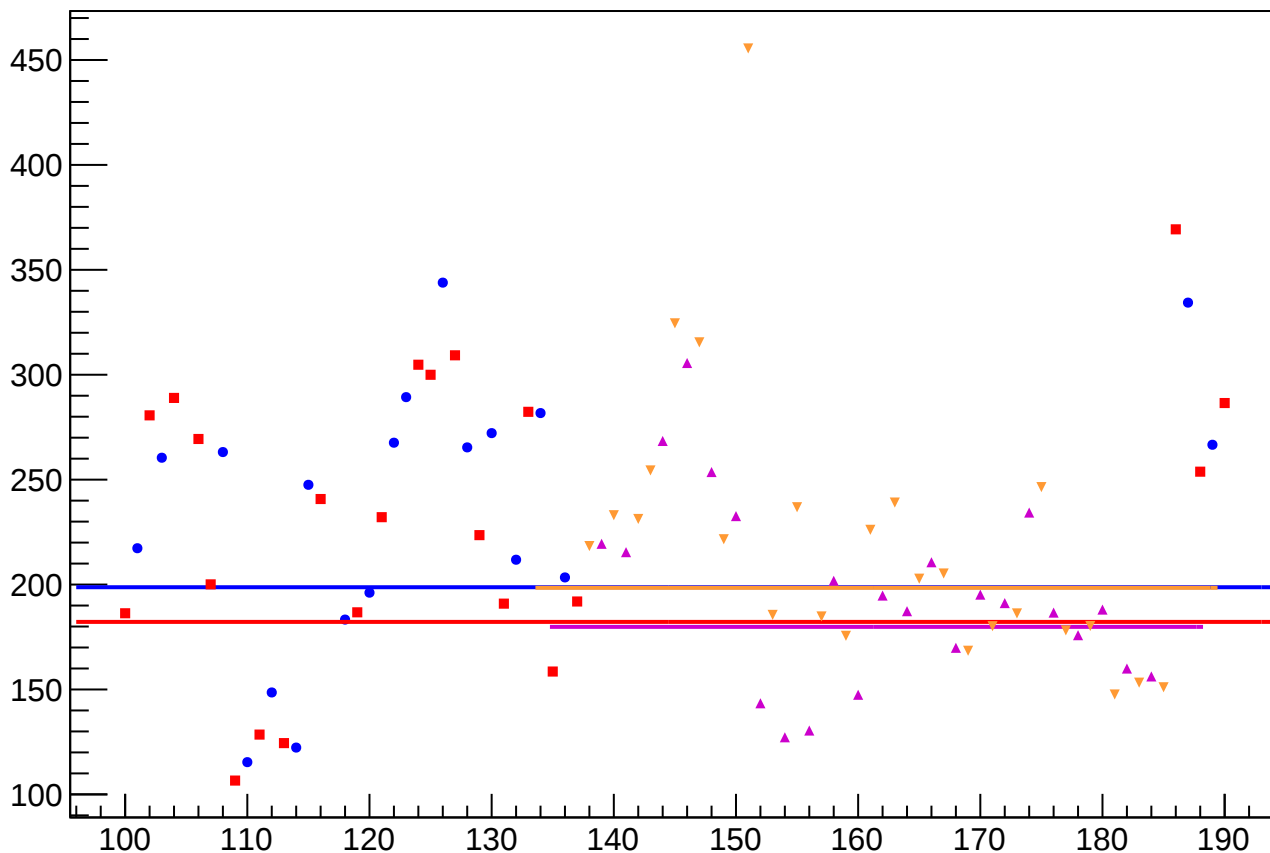
Right: 12.647 $\pm$ 50.952 χ^2 /NDF: 16.9/40

In: 36.453 $\pm$ 39.008 χ^2 /NDF:16.5/41

Out: 7.767 $\pm$ 38.974 χ^2 /NDF:15.2/46

All: 22.097 $\pm$ 27.571 χ^2 /NDF: 32.1/88

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.728 $\pm$ 0.055 χ^2 /NDF: 1131412.7/18

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 182.206 $\pm$ 0.047 χ^2 /NDF: 2055214.6/21

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

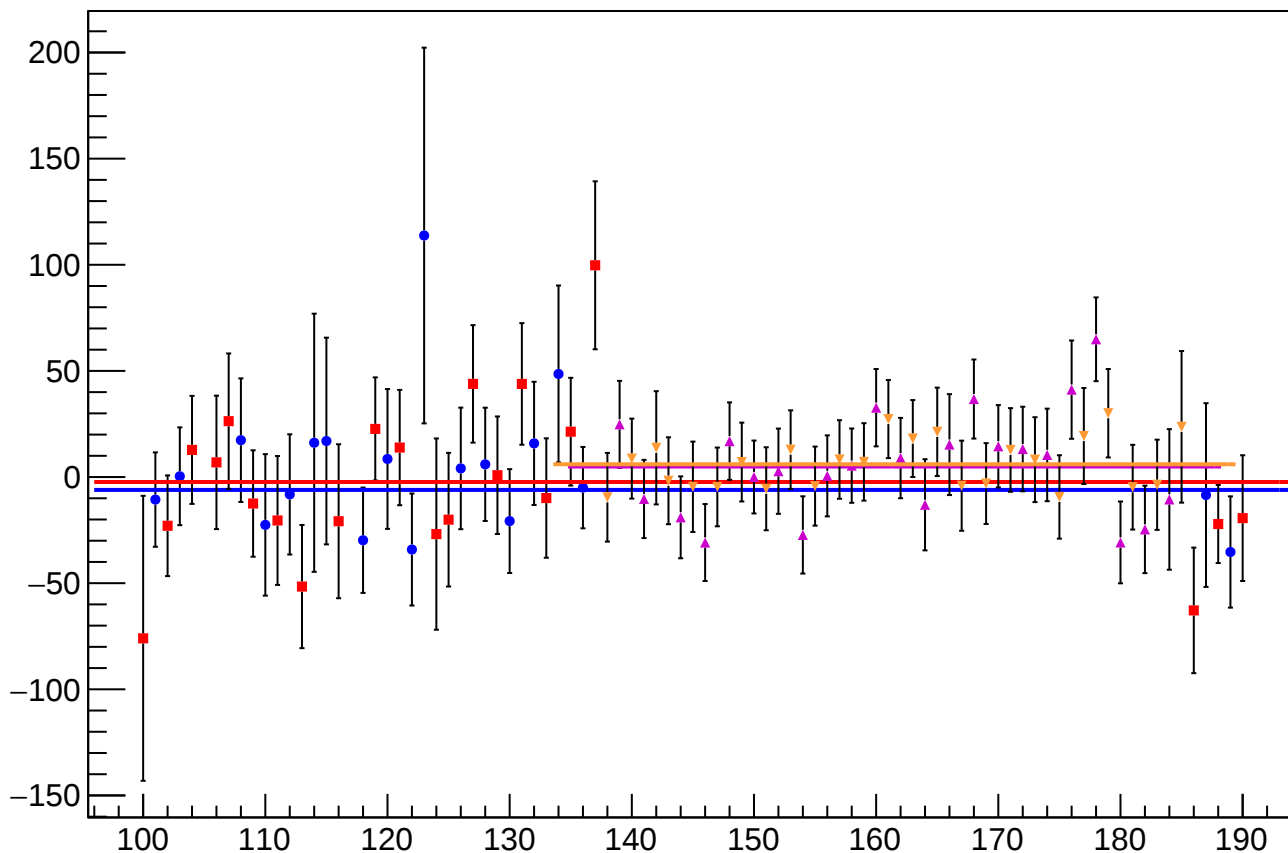
Right: 189.185 $\pm$ 0.036 χ^2 /NDF: 3237930.8/40

In: 184.516 $\pm$ 0.028 χ^2 /NDF:2807605.3/41

Out: 192.961 $\pm$ 0.028 χ^2 /NDF:3894374.8/46

All: 188.742 $\pm$ 0.019 χ^2 /NDF: 6748890.6/88

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.066 ± 6.622 χ^2/NDF : 9.7/18

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: -2.333 ± 6.059 χ^2/NDF : 27.6/21

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

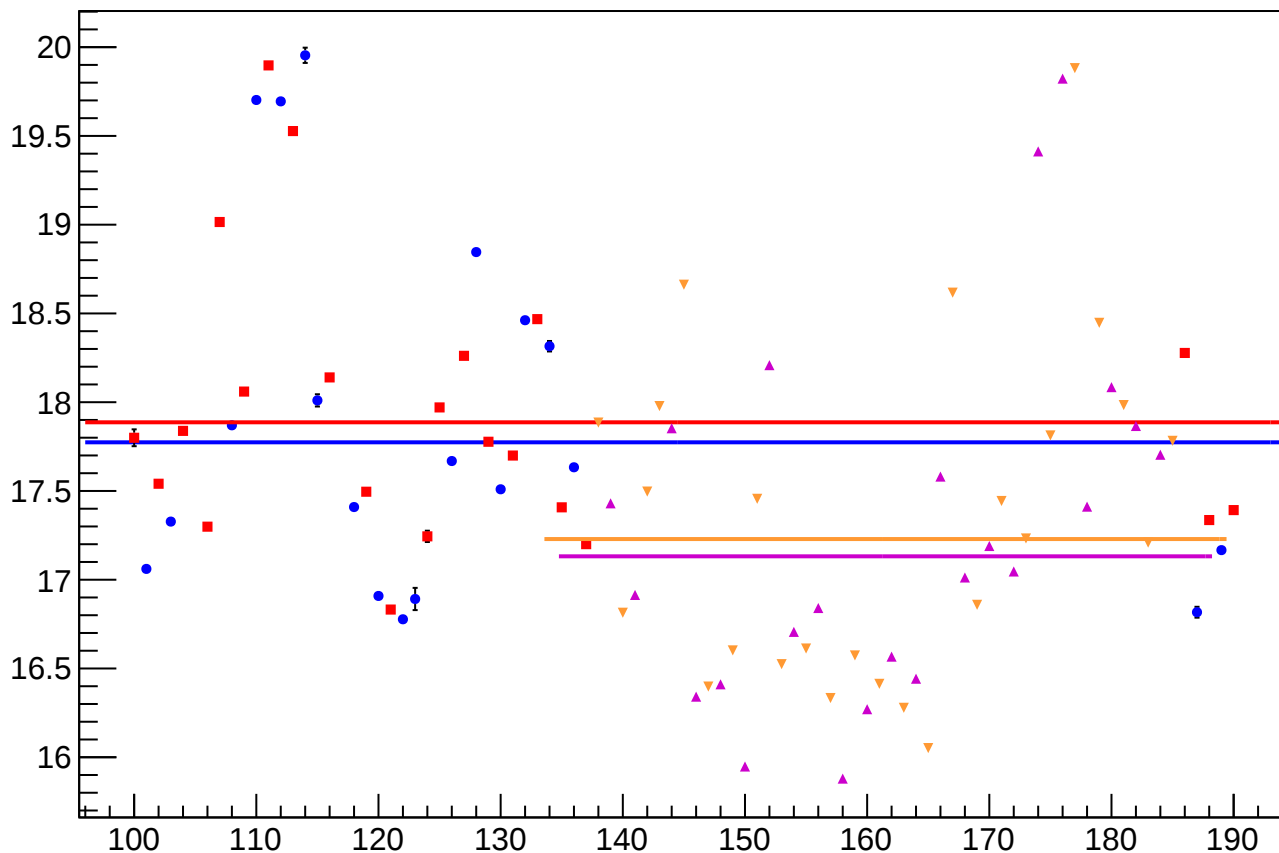
Right: -4.034 ± 4.470 χ^2/NDF : 37.4/40

In: 1.885 ± 3.491 χ^2/NDF : 46.5/41

Out: 3.469 ± 3.348 χ^2/NDF : 37.0/46

All: 2.710 ± 2.416 χ^2/NDF : 83.7/88

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.774 $\pm$ 0.005 χ^2 /NDF: 33315.5/18

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.887 $\pm$ 0.004 χ^2 /NDF: 28303.2/21

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

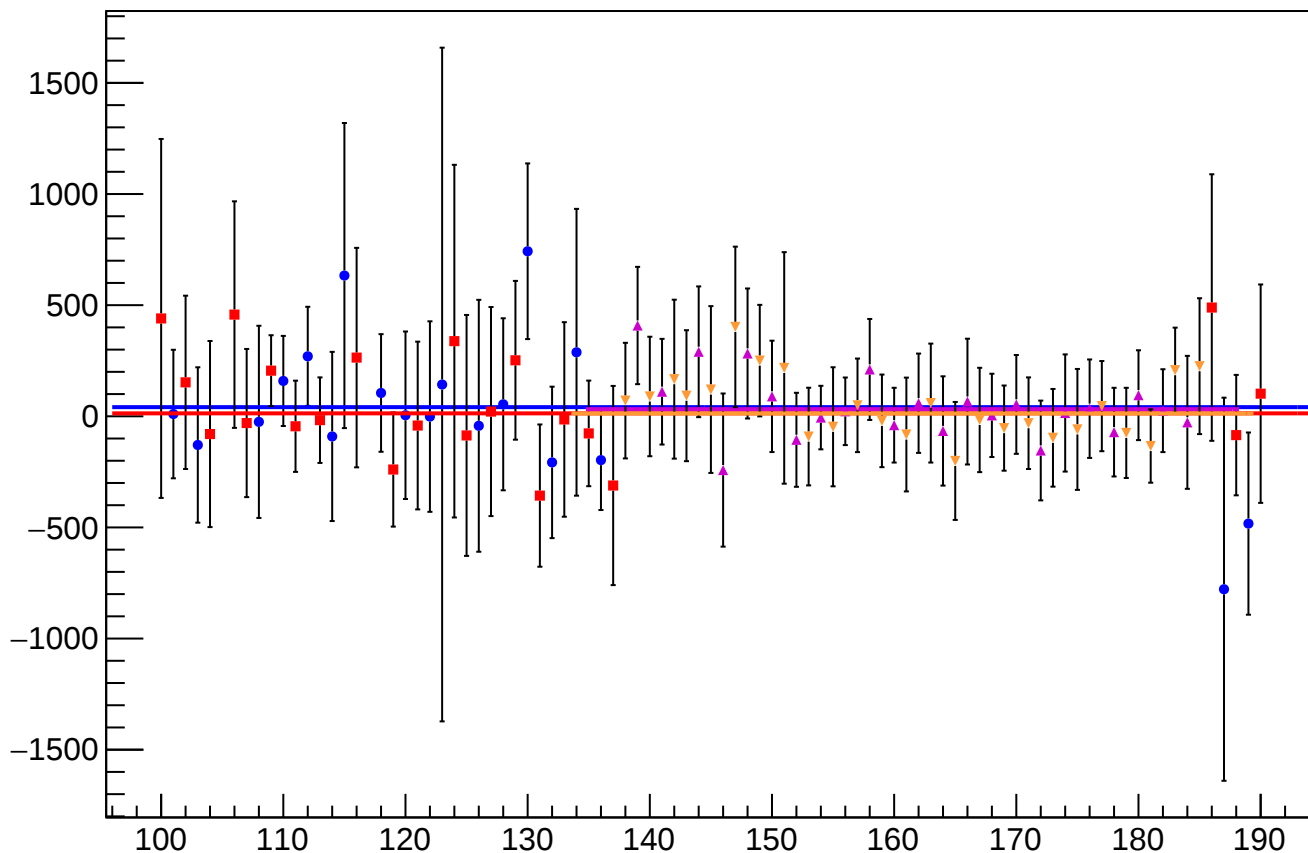
Right: 17.835 $\pm$ 0.003 χ^2 /NDF: 61934.4/40

In: 17.310 $\pm$ 0.002 χ^2 /NDF:150895.6/41

Out: 17.430 $\pm$ 0.002 χ^2 /NDF:143297.4/46

All: 17.373 $\pm$ 0.002 χ^2 /NDF: 295417.9/88

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 41.153+/-78.925 χ^2/NDF : 10.1/18

Left Out: 12.474+/-48.086 χ^2/NDF : 6.8/24

Right Out: 13.207+/-67.632 χ^2/NDF : 7.5/21

Left In: 32.159+/-45.131 χ^2/NDF : 6.9/22

Left: 22.940+/-32.908 χ^2/NDF : 13.9/47

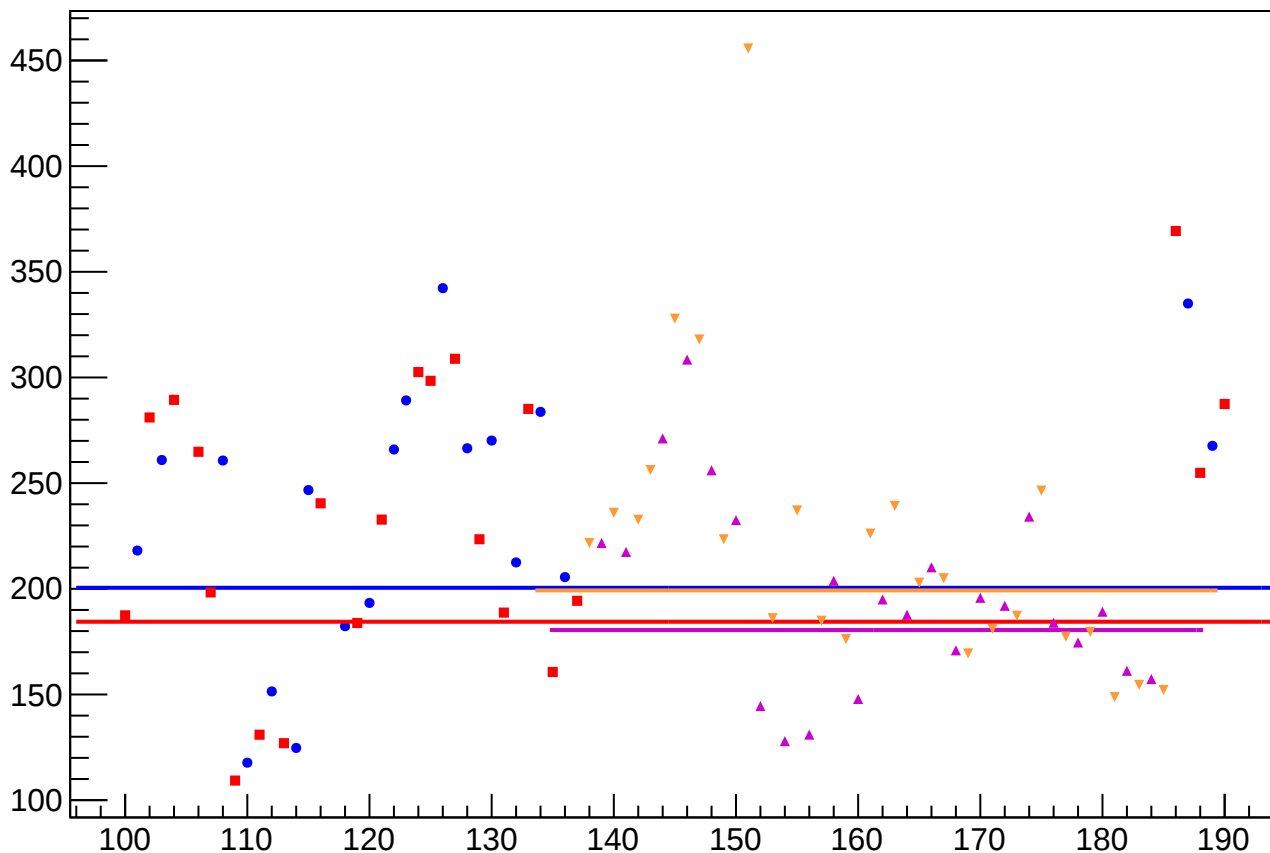
Right: 25.039+/-51.356 χ^2/NDF : 17.7/40

In: 34.375+/-39.178 χ^2/NDF : 17.1/41

Out: 12.721+/-39.190 χ^2/NDF : 14.3/46

All: 23.551+/-27.707 χ^2/NDF : 31.6/88

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 200.482 $\pm$ 0.056 χ^2 /NDF: 1073012.9/18

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 184.416 $\pm$ 0.048 χ^2 /NDF: 1956178.2/21

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

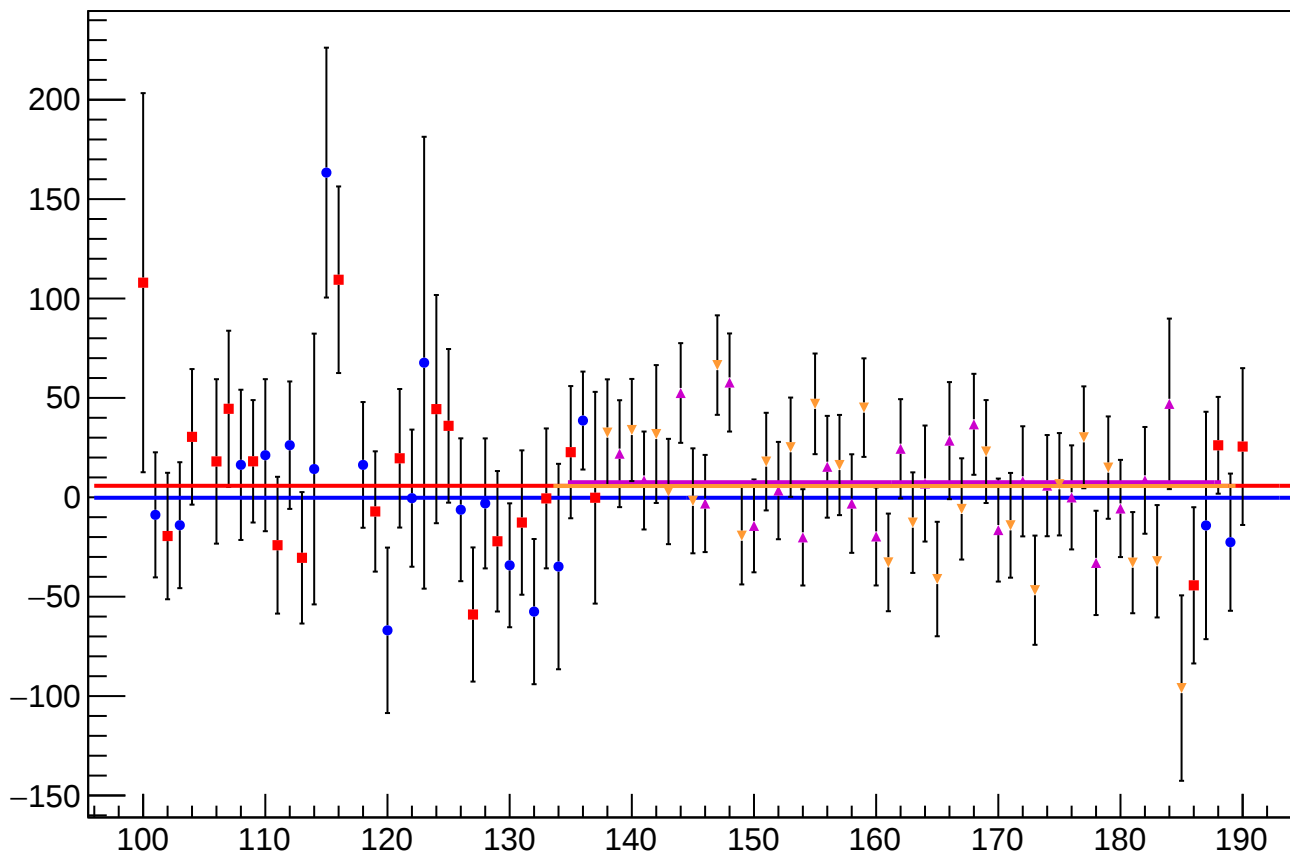
Right: 191.218 $\pm$ 0.036 χ^2 /NDF: 3076977.8/40

In: 185.419 $\pm$ 0.028 χ^2 /NDF:2763464.3/41

Out: 194.263 $\pm$ 0.028 χ^2 /NDF:3784113.0/46

All: 189.840 $\pm$ 0.020 χ^2 /NDF: 6598521.0/88

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.237 ± 8.457 χ^2/NDF : 18.6/18

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 5.790 ± 7.709 χ^2/NDF : 19.2/21

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

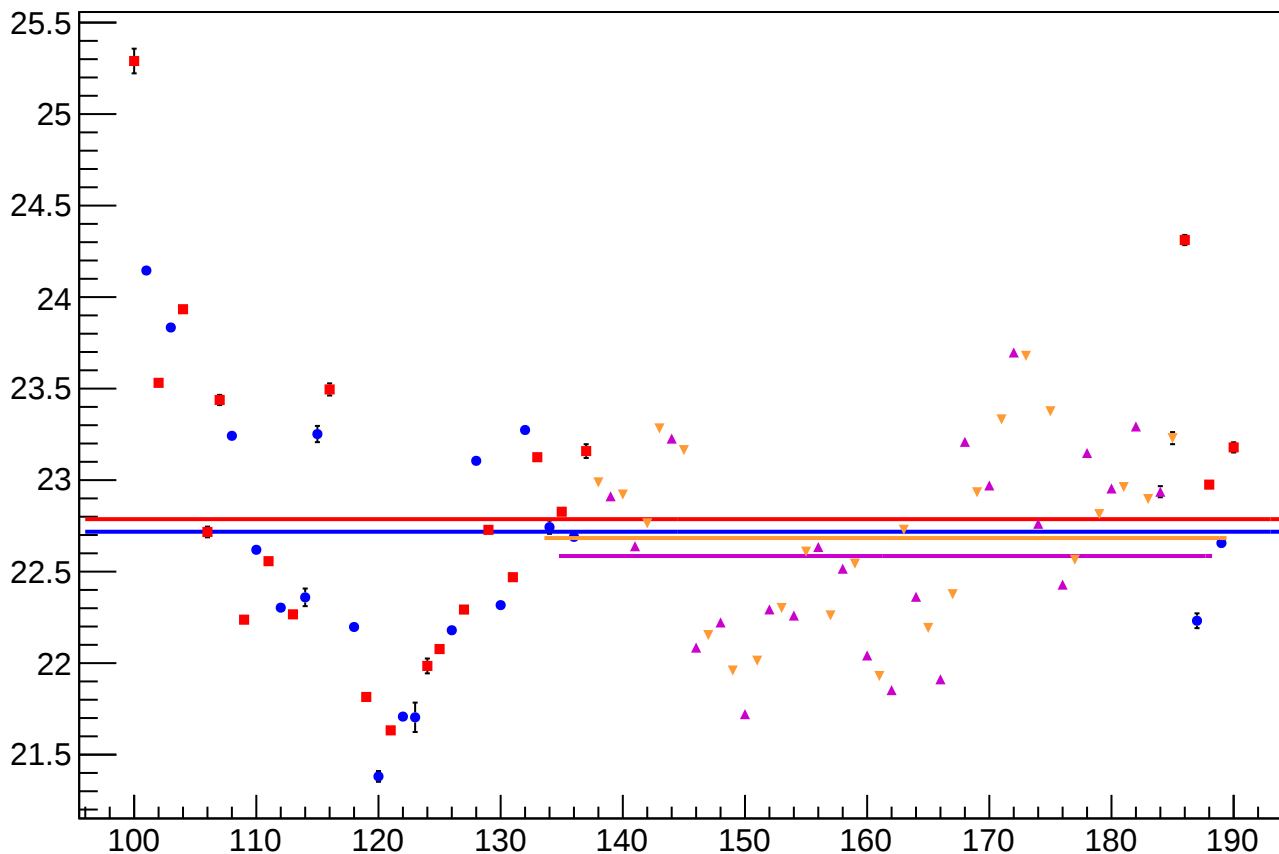
Right: 3.054 ± 5.697 χ^2/NDF : 38.0/40

In: 5.324 ± 4.552 χ^2/NDF : 37.5/41

Out: 5.710 ± 4.355 χ^2/NDF : 55.6/46

All: 5.526 ± 3.147 χ^2/NDF : 93.1/88

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.718 $\pm$ 0.006 χ^2 /NDF: 13687.6/18

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16318.1/24

Right Out: 22.787 $\pm$ 0.005 χ^2 /NDF: 16489.6/21

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

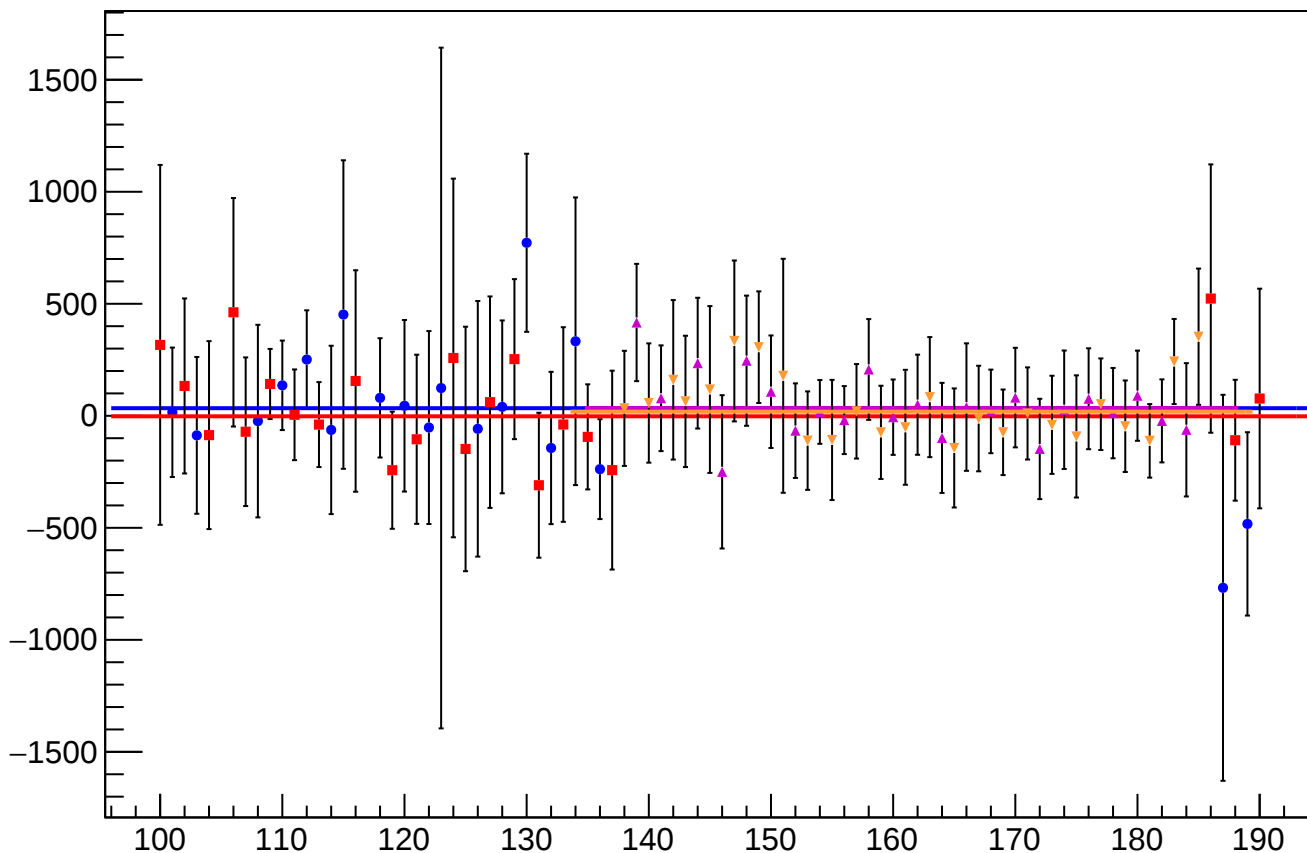
Right: 22.755 $\pm$ 0.004 χ^2 /NDF: 30249.3/40

In: 22.624 $\pm$ 0.003 χ^2 /NDF: 32124.8/41

Out: 22.716 $\pm$ 0.003 χ^2 /NDF: 33051.8/46

All: 22.672 $\pm$ 0.002 χ^2 /NDF: 65609.5/88

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 33.985+/-78.592 χ^2/NDF : 9.8/18

Left Out: 18.633+/-48.006 χ^2/NDF : 7.6/24

Right Out: -2.218+/-67.184 χ^2/NDF : 6.1/21

Left In: 35.046+/-45.063 χ^2/NDF : 6.3/22

Left: 27.358+/-32.855 χ^2/NDF : 13.9/47

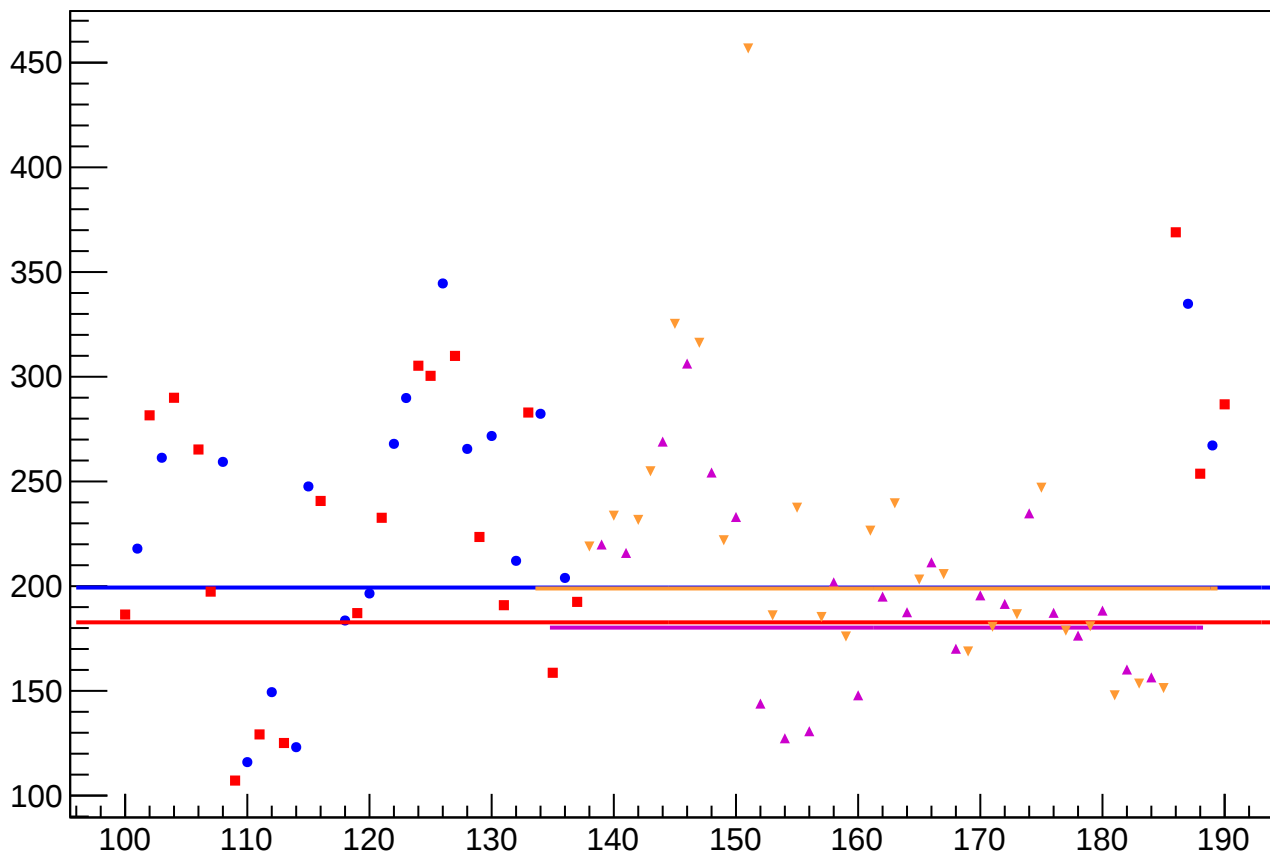
Right: 13.068+/-51.068 χ^2/NDF : 16.0/40

In: 34.784+/-39.093 χ^2/NDF : 16.1/41

Out: 11.585+/-39.059 χ^2/NDF : 13.8/46

All: 23.175+/-27.631 χ^2/NDF : 30.0/88

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.346 $\pm$ 0.056 χ^2/NDF : 1115131.7/18

Left Out: 198.891 $\pm$ 0.034 χ^2/NDF : 1762454.6/24

Right Out: 182.726 $\pm$ 0.048 χ^2/NDF : 2032095.8/21

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

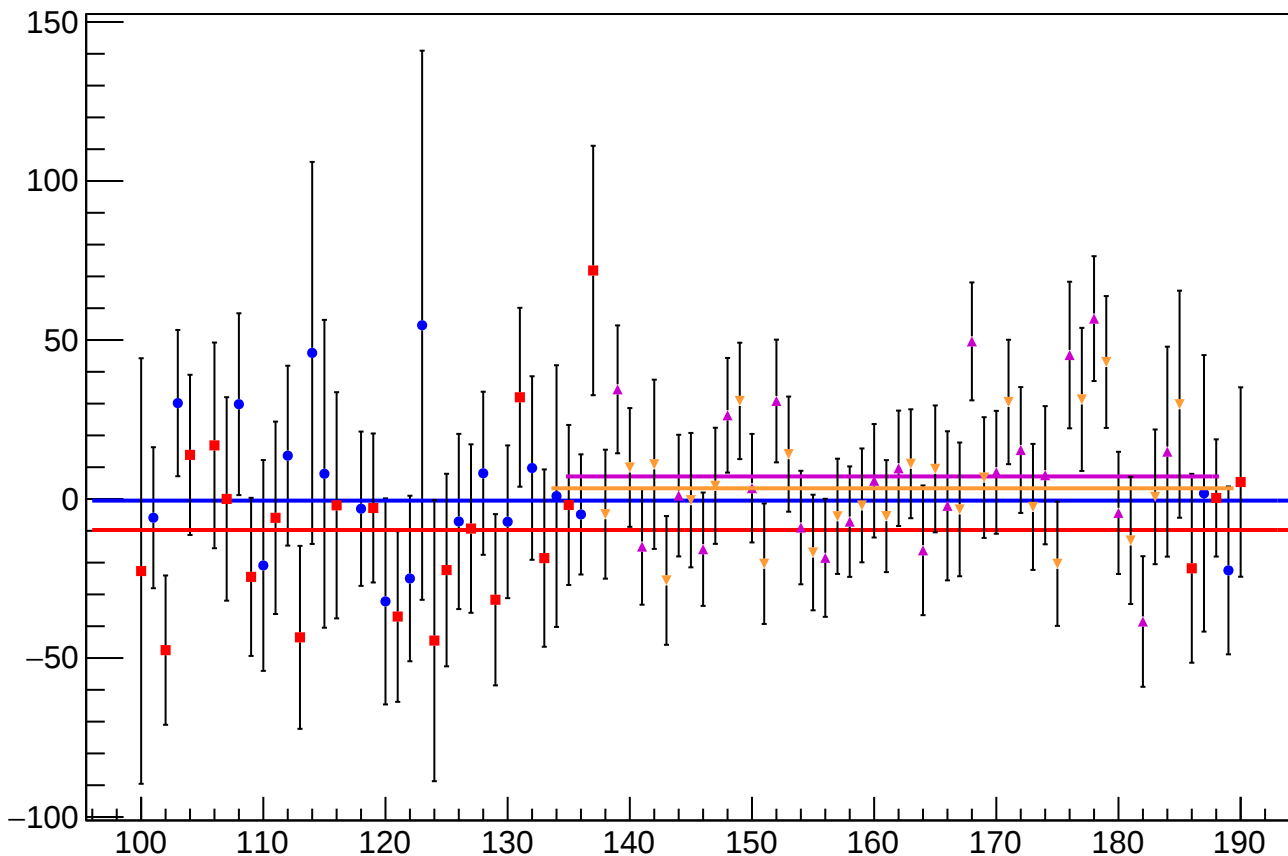
Right: 189.743 $\pm$ 0.036 χ^2/NDF : 3198905.5/40

In: 184.942 $\pm$ 0.028 χ^2/NDF : 2793394.2/41

Out: 193.427 $\pm$ 0.028 χ^2/NDF : 3871200.1/46

All: 189.188 $\pm$ 0.020 χ^2/NDF : 6711738.2/88

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.503 ± 6.536 χ^2/NDF : 7.6/18

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: -9.743 ± 5.991 χ^2/NDF : 16.1/21

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

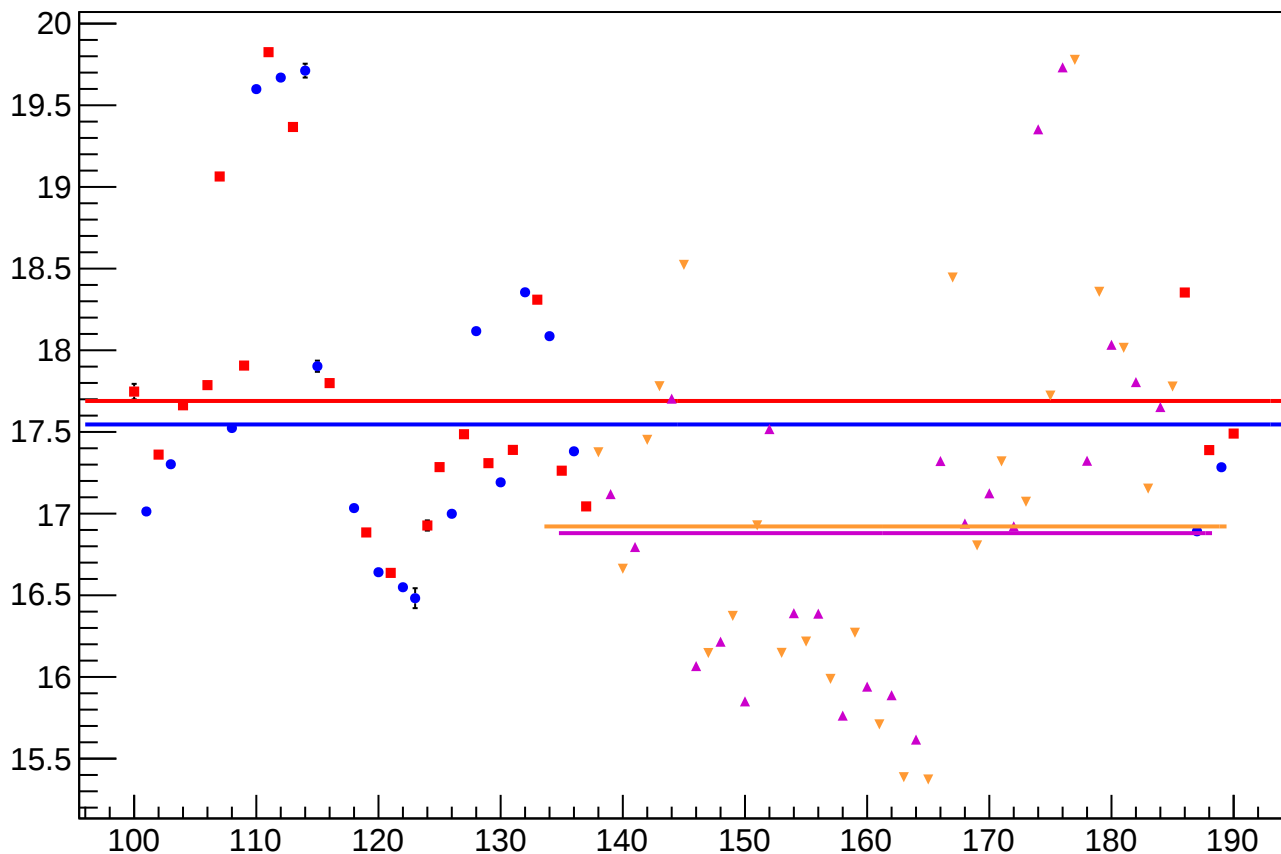
Right: -5.525 ± 4.417 χ^2/NDF : 24.8/40

In: 4.992 ± 3.441 χ^2/NDF : 41.1/41

Out: -0.597 ± 3.296 χ^2/NDF : 38.2/46

All: 2.077 ± 2.380 χ^2/NDF : 80.7/88

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.546 $\pm$ 0.005 χ^2 /NDF: 33660.6/18

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.690 $\pm$ 0.004 χ^2 /NDF: 31909.8/21

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

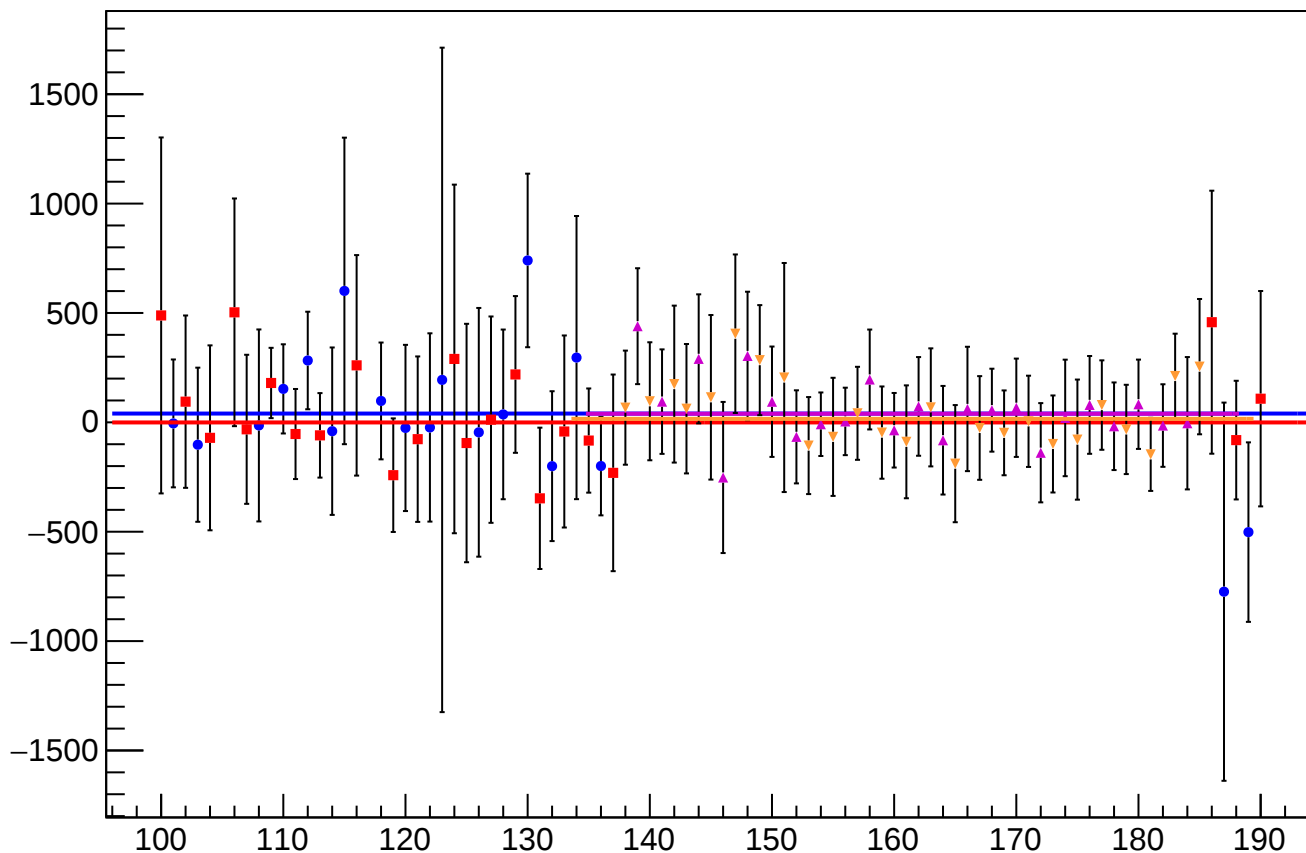
Right: 17.624 $\pm$ 0.003 χ^2 /NDF: 66096.3/40

In: 17.065 $\pm$ 0.002 χ^2 /NDF:170381.5/41

Out: 17.154 $\pm$ 0.002 χ^2 /NDF:193832.5/46

All: 17.111 $\pm$ 0.002 χ^2 /NDF: 364913.2/88

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 40.174 $\pm$ 79.371 χ^2 /NDF: 10.0/18

Left Out: 15.970 $\pm$ 48.503 χ^2 /NDF: 7.4/24

Right Out: -0.455 $\pm$ 68.070 χ^2 /NDF: 6.8/21

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

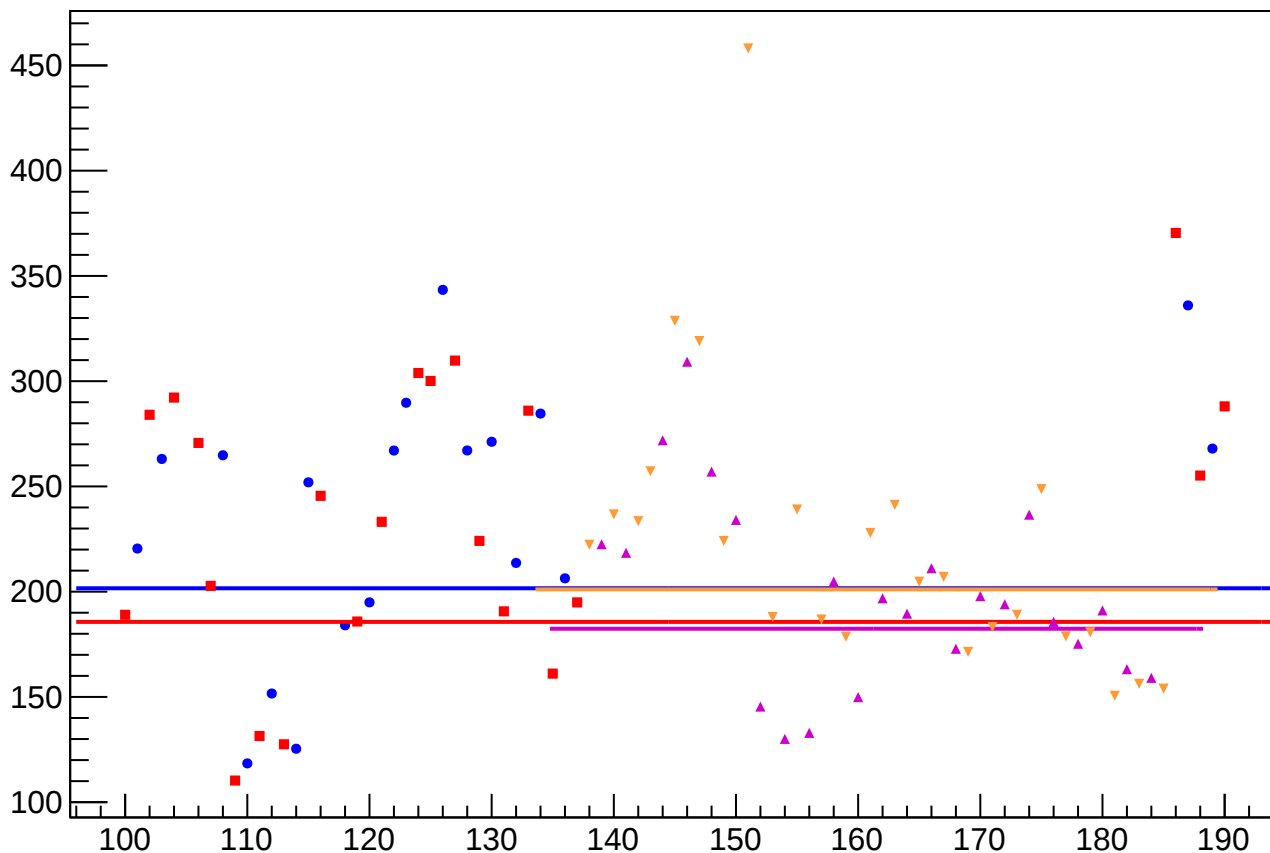
Right: 16.764 $\pm$ 51.671 χ^2 /NDF: 17.0/40

In: 39.574 $\pm$ 39.520 χ^2 /NDF: 16.9/41

Out: 10.439 $\pm$ 39.501 χ^2 /NDF: 14.2/46

All: 25.000 $\pm$ 27.938 χ^2 /NDF: 31.4/88

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 201.622 $\pm$ 0.056 χ^2 /NDF: 1076068.3/18

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 185.655 $\pm$ 0.048 χ^2 /NDF: 1957865.2/21

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

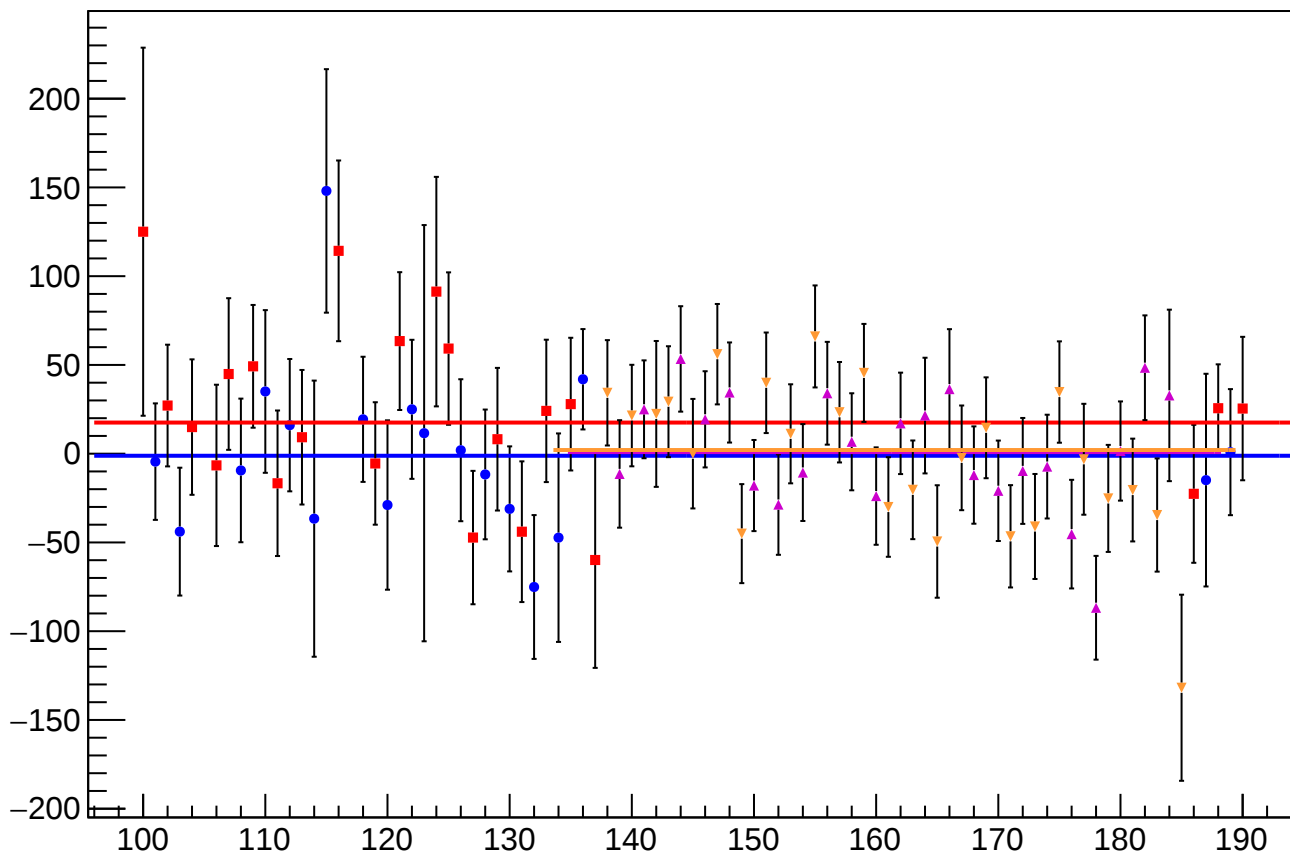
Right: 192.422 $\pm$ 0.037 χ^2 /NDF: 3080566.7/40

In: 187.162 $\pm$ 0.028 χ^2 /NDF:2713228.6/41

Out: 195.893 $\pm$ 0.028 χ^2 /NDF:3757146.3/46

All: 191.530 $\pm$ 0.020 χ^2 /NDF: 6519201.9/88

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.169 ± 9.426 χ^2/NDF : 15.5/18

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 17.534 ± 8.468 χ^2/NDF : 19.5/21

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

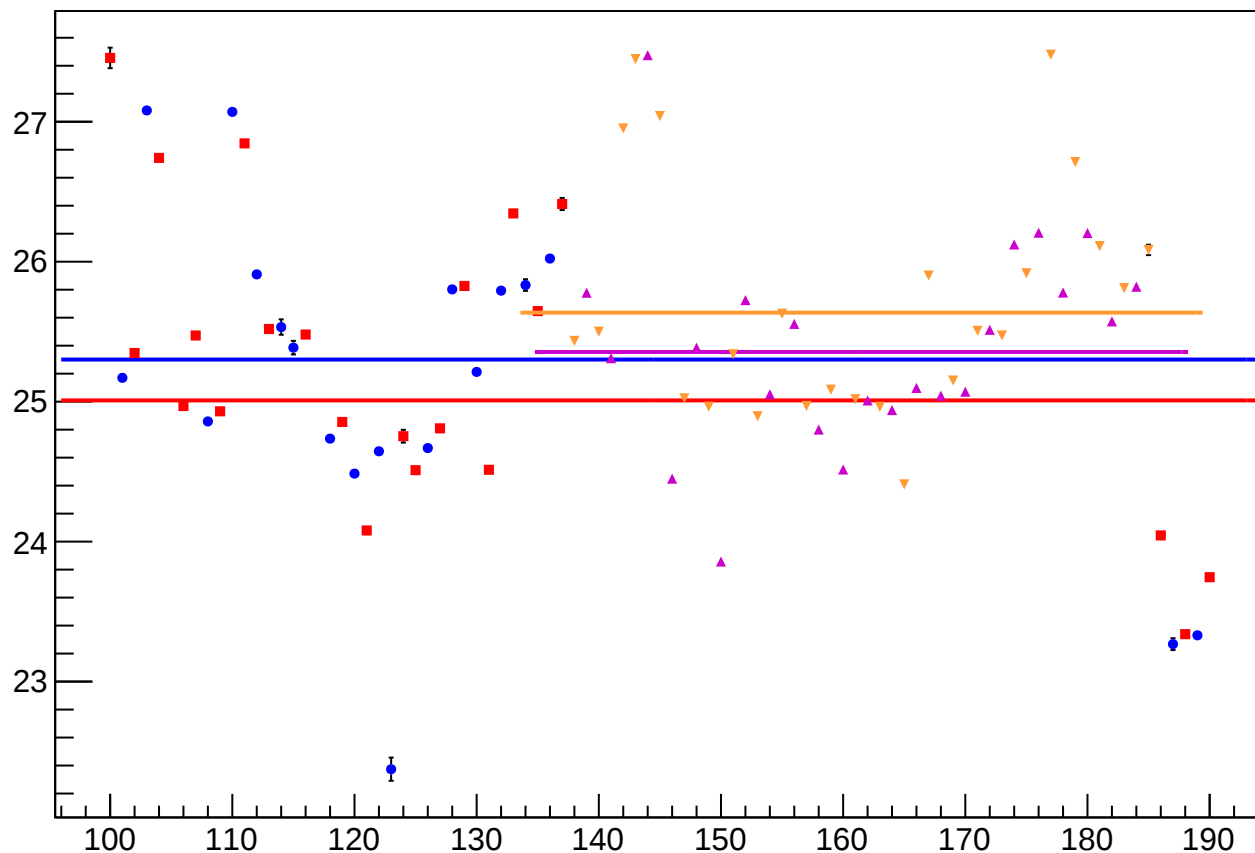
Right: 9.181 ± 6.299 χ^2/NDF : 37.2/40

In: 0.294 ± 5.103 χ^2/NDF : 42.6/41

Out: 7.194 ± 4.879 χ^2/NDF : 61.2/46

All: 3.898 ± 3.527 χ^2/NDF : 104.8/88

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.301 $\pm$ 0.007 χ^2 /NDF: 22711.3/18

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 25.009 $\pm$ 0.006 χ^2 /NDF: 29099.5/21

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

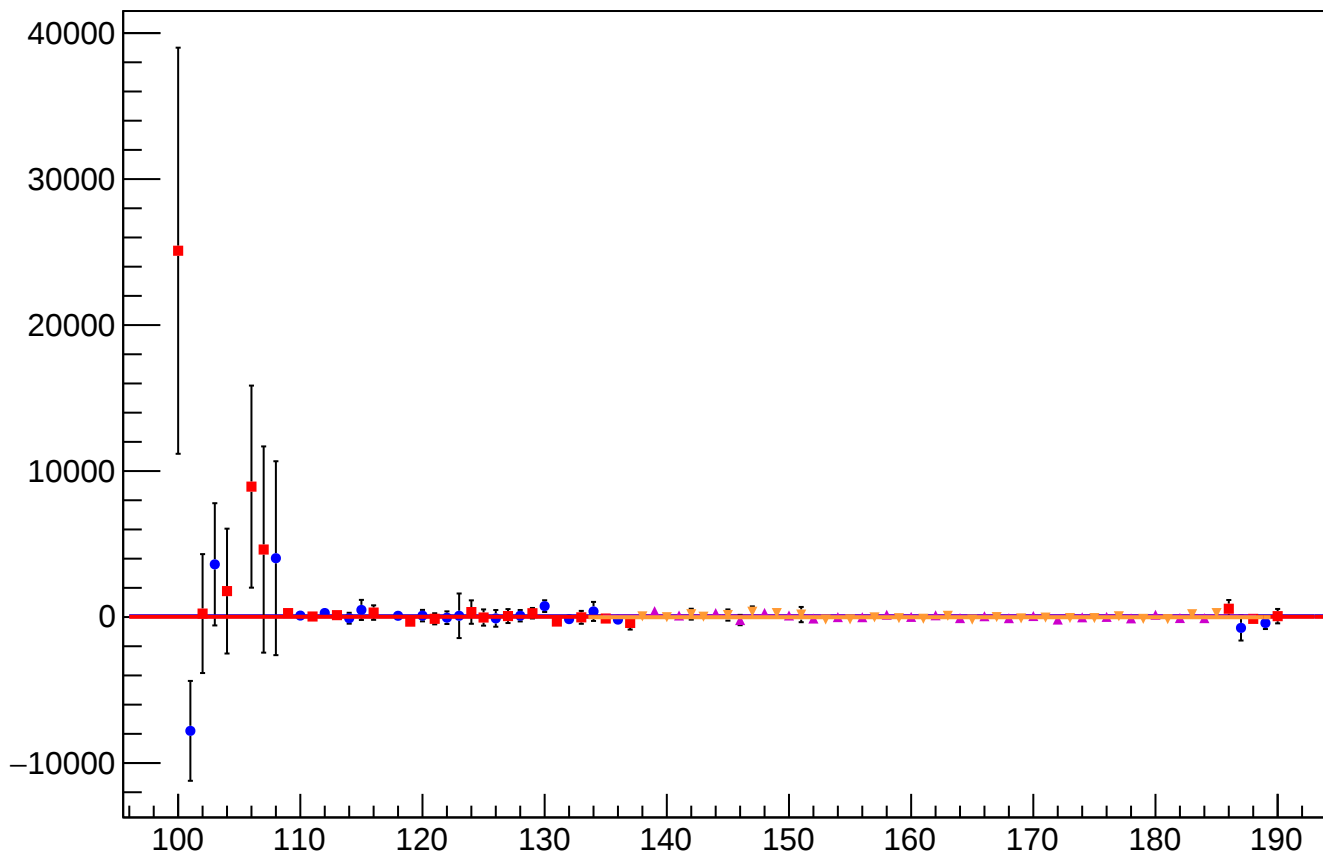
Right: 25.139 $\pm$ 0.004 χ^2 /NDF: 52873.5/40

In: 25.339 $\pm$ 0.004 χ^2 /NDF: 52523.6/41

Out: 25.428 $\pm$ 0.003 χ^2 /NDF: 71560.1/46

All: 25.385 $\pm$ 0.002 χ^2 /NDF: 124400.5/88

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 57.833+/-86.302 χ^2/NDF : 14.8/18

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: 18.151+/-76.032 χ^2/NDF : 13.1/21

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

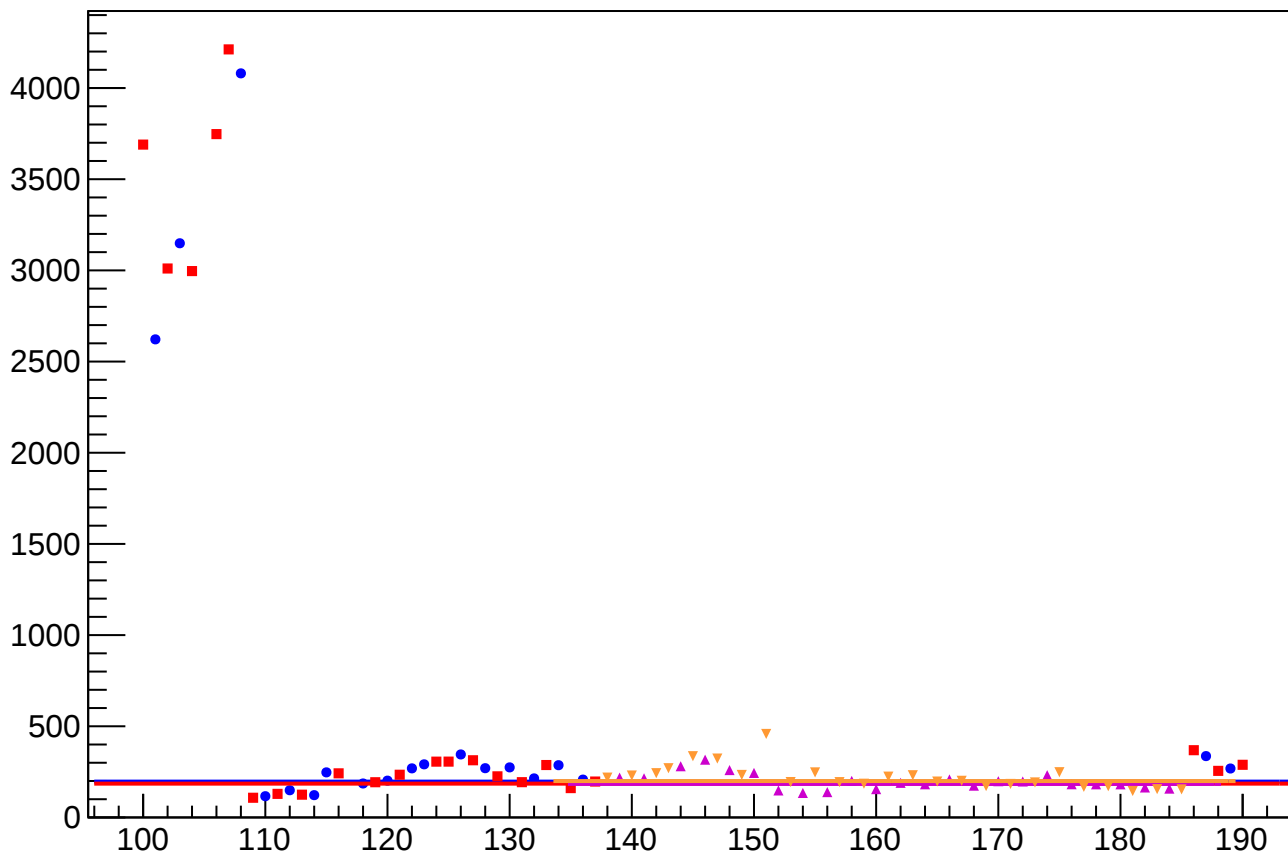
Right: 35.492+/-57.050 χ^2/NDF : 28.1/40

In: 33.665+/-40.508 χ^2/NDF : 22.4/41

Out: -3.937+/-40.719 χ^2/NDF : 21.1/46

All: 14.962+/-28.718 χ^2/NDF : 44.0/88

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.531+/-0.061 χ^2/NDF : 3695241.8/18

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 185.456+/-0.054 χ^2/NDF : 4656590.3/21

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

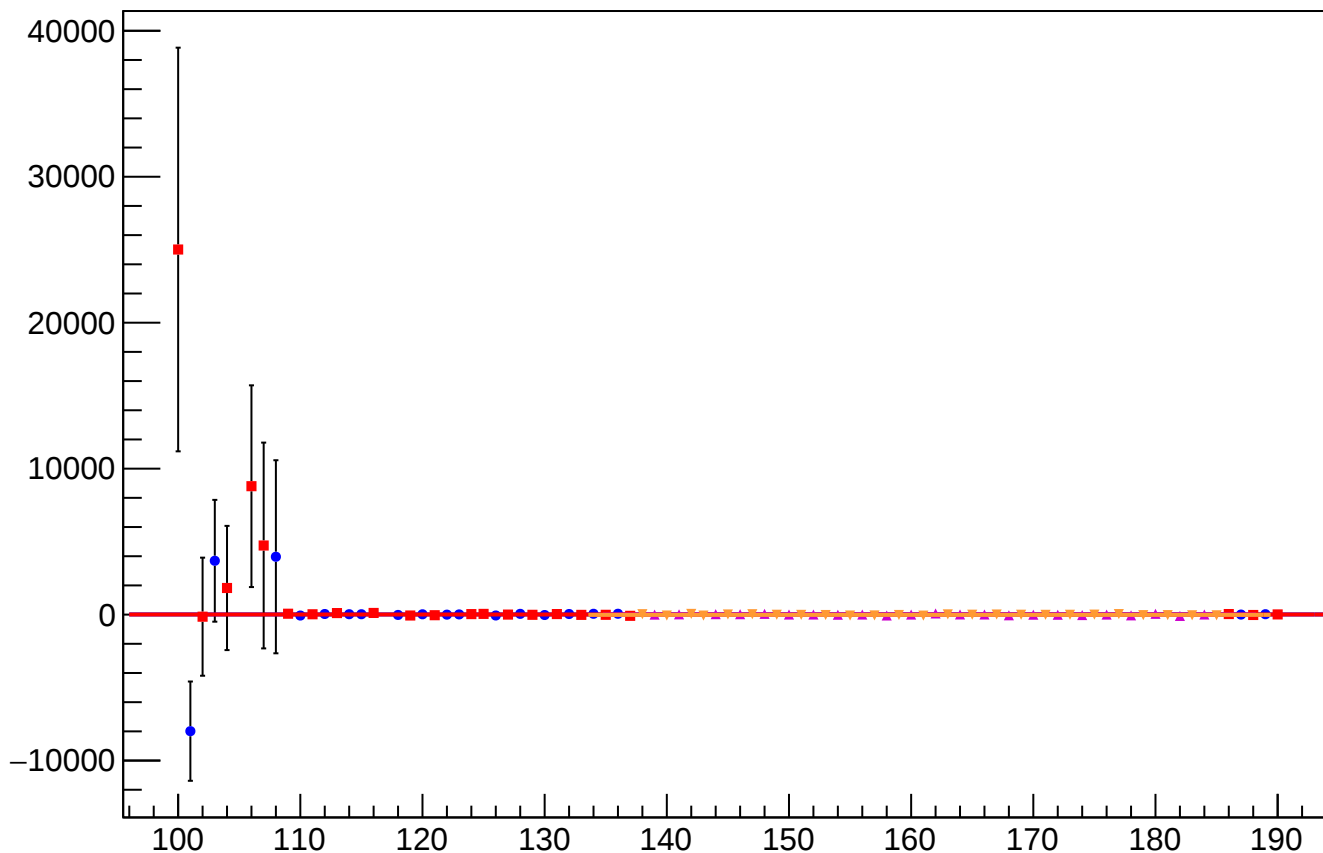
Right: 190.296+/-0.040 χ^2/NDF : 8370374.5/40

In: 186.785+/-0.029 χ^2/NDF : 5151407.5/41

Out: 195.497+/-0.029 χ^2/NDF : 6586047.8/46

All: 191.119+/-0.020 χ^2/NDF : 11783470.8/88

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.955+/-11.619 χ^2/NDF : 19.1/18

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 8.069+/-10.785 χ^2/NDF : 26.0/21

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

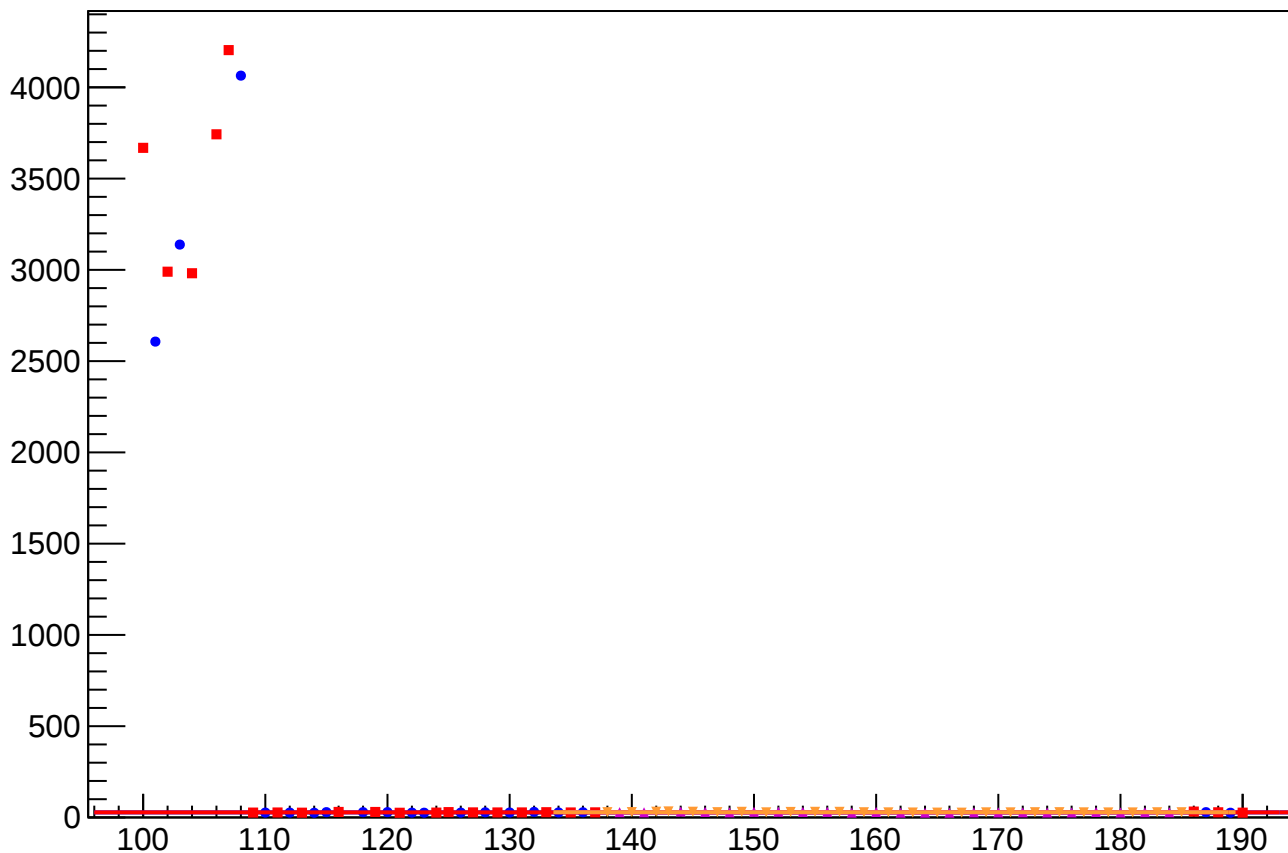
Right: 9.868+/-7.905 χ^2/NDF : 45.2/40

In: 3.872+/-5.920 χ^2/NDF : 52.2/41

Out: -10.448+/-5.687 χ^2/NDF : 52.4/46

All: -3.575+/-4.101 χ^2/NDF : 107.6/88

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.733+/-0.008 χ^2/NDF : 3032863.2/18

Left Out: 28.691+/-0.005 χ^2/NDF :110483.8/24

Right Out: 27.885+/-0.008 χ^2/NDF : 3494294.3/21

Left In: 28.673+/-0.005 χ^2/NDF :124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

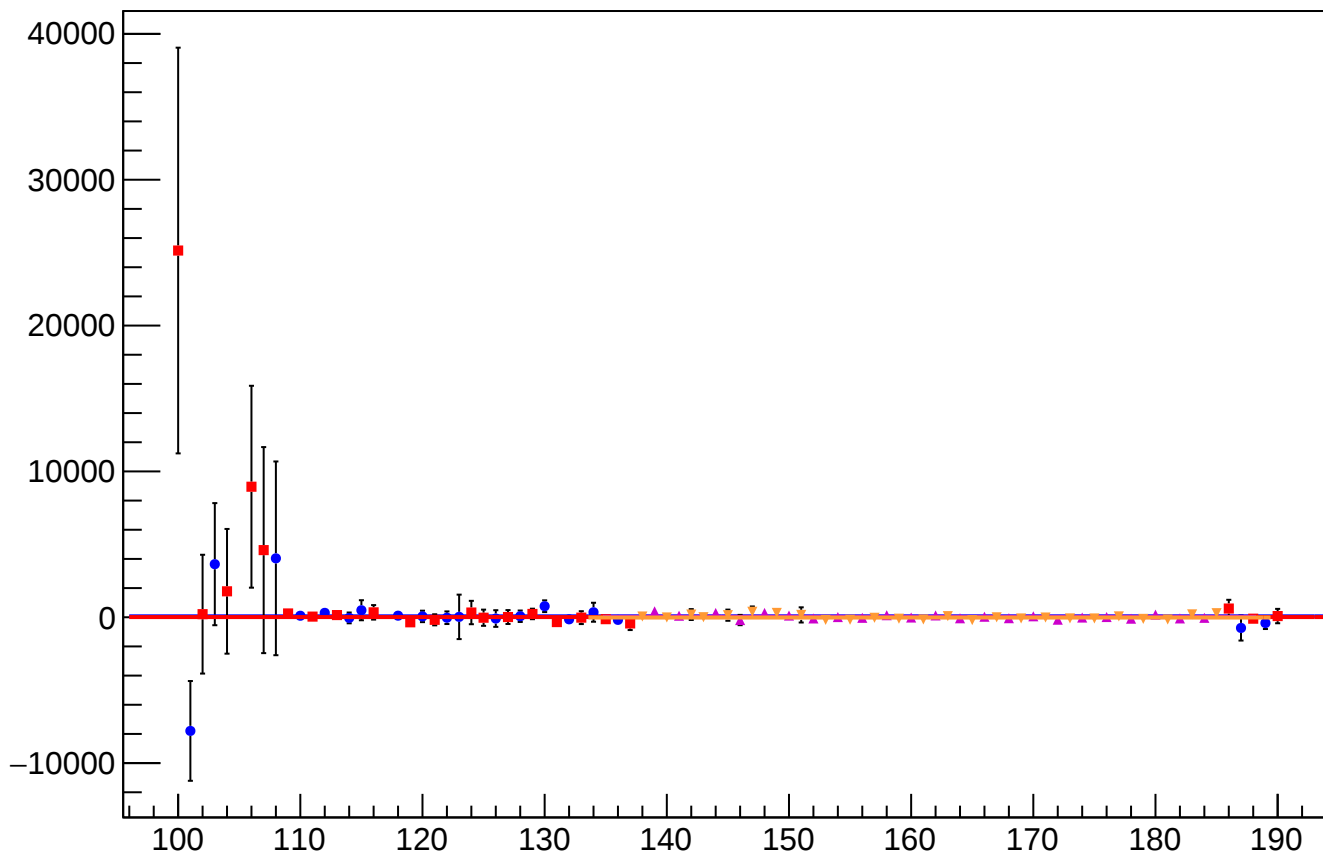
Right: 27.815+/-0.006 χ^2/NDF : 6527340.7/40

In: 28.429+/-0.004 χ^2/NDF :3167293.8/41

Out: 28.467+/-0.004 χ^2/NDF :3612836.5/46

All: 28.449+/-0.003 χ^2/NDF : 6780172.8/88

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 63.840+/-86.038 χ^2/NDF : 15.0/18

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: 12.378+/-75.816 χ^2/NDF : 13.9/21

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

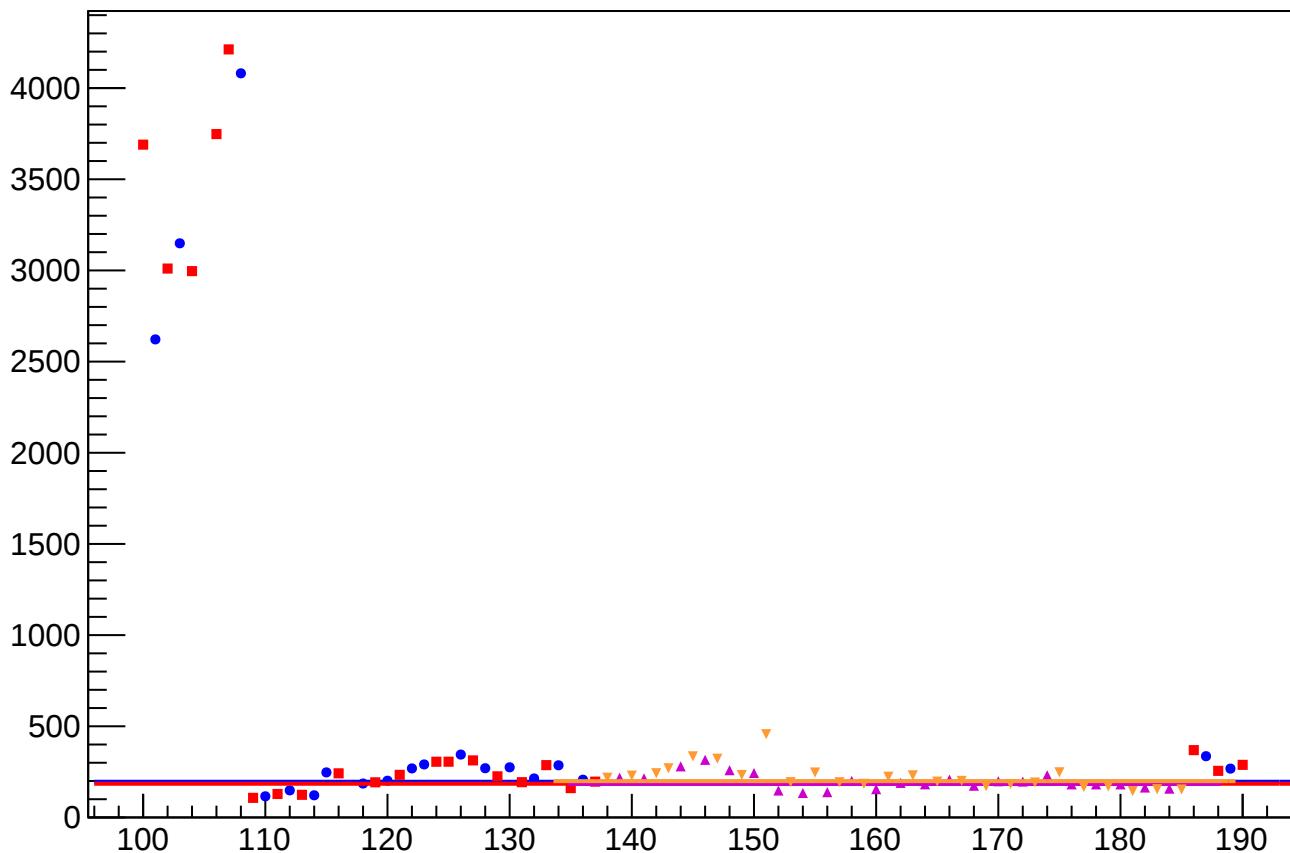
Right: 34.872+/-56.883 χ^2/NDF : 29.1/40

In: 35.137+/-40.418 χ^2/NDF : 22.9/41

Out: -7.485+/-40.621 χ^2/NDF : 22.7/46

All: 13.933+/-28.651 χ^2/NDF : 46.2/88

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.815 $\pm$ 0.061 χ^2 /NDF: 3708052.3/18

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 184.801 $\pm$ 0.054 χ^2 /NDF: 4673506.3/21

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

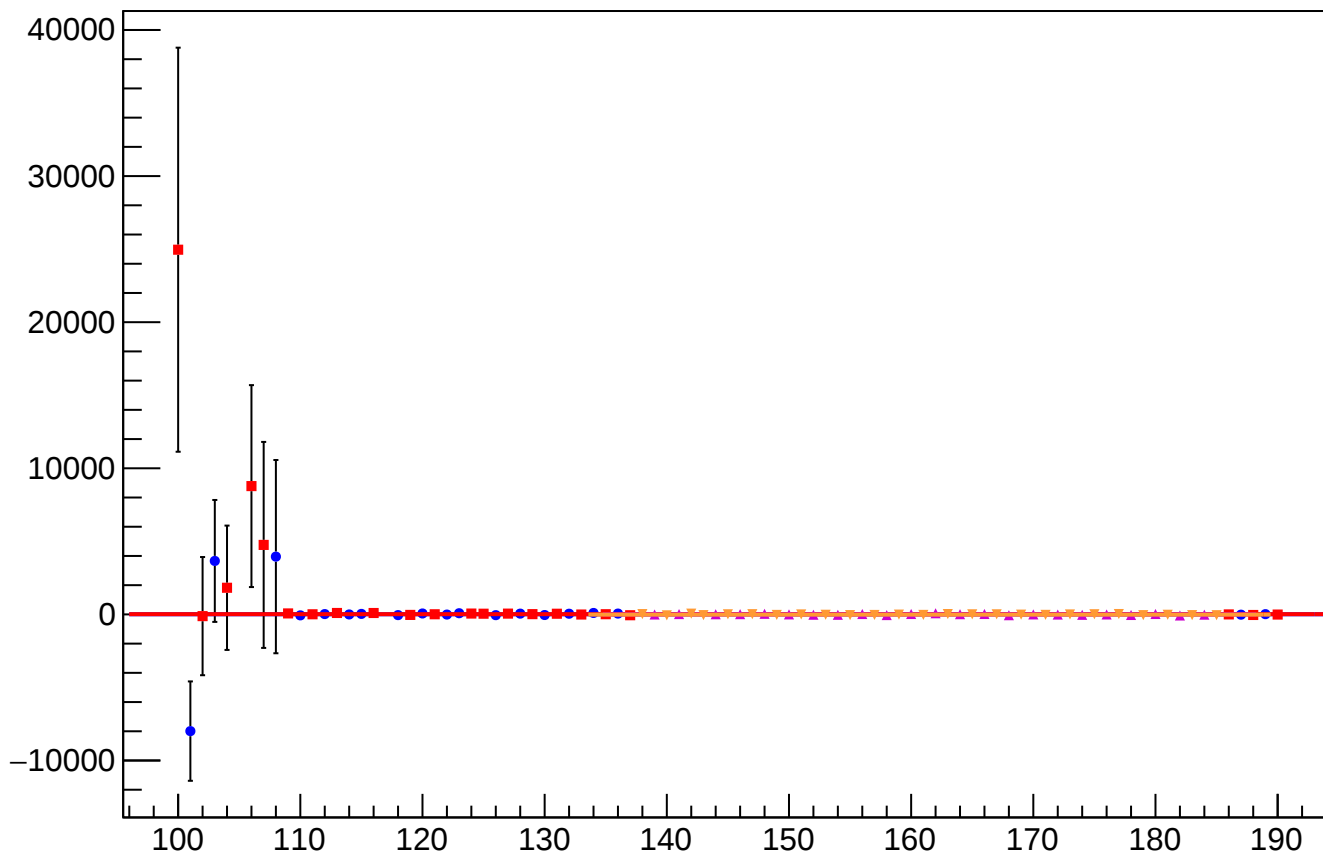
Right: 189.615 $\pm$ 0.040 χ^2 /NDF: 8400008.5/40

In: 186.348 $\pm$ 0.029 χ^2 /NDF:5162020.0/41

Out: 194.991 $\pm$ 0.029 χ^2 /NDF:6604525.3/46

All: 190.648 $\pm$ 0.020 χ^2 /NDF: 11812041.5/86

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.055+/-11.683 χ^2/NDF : 23.0/18

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 15.769+/-10.832 χ^2/NDF : 21.4/21

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

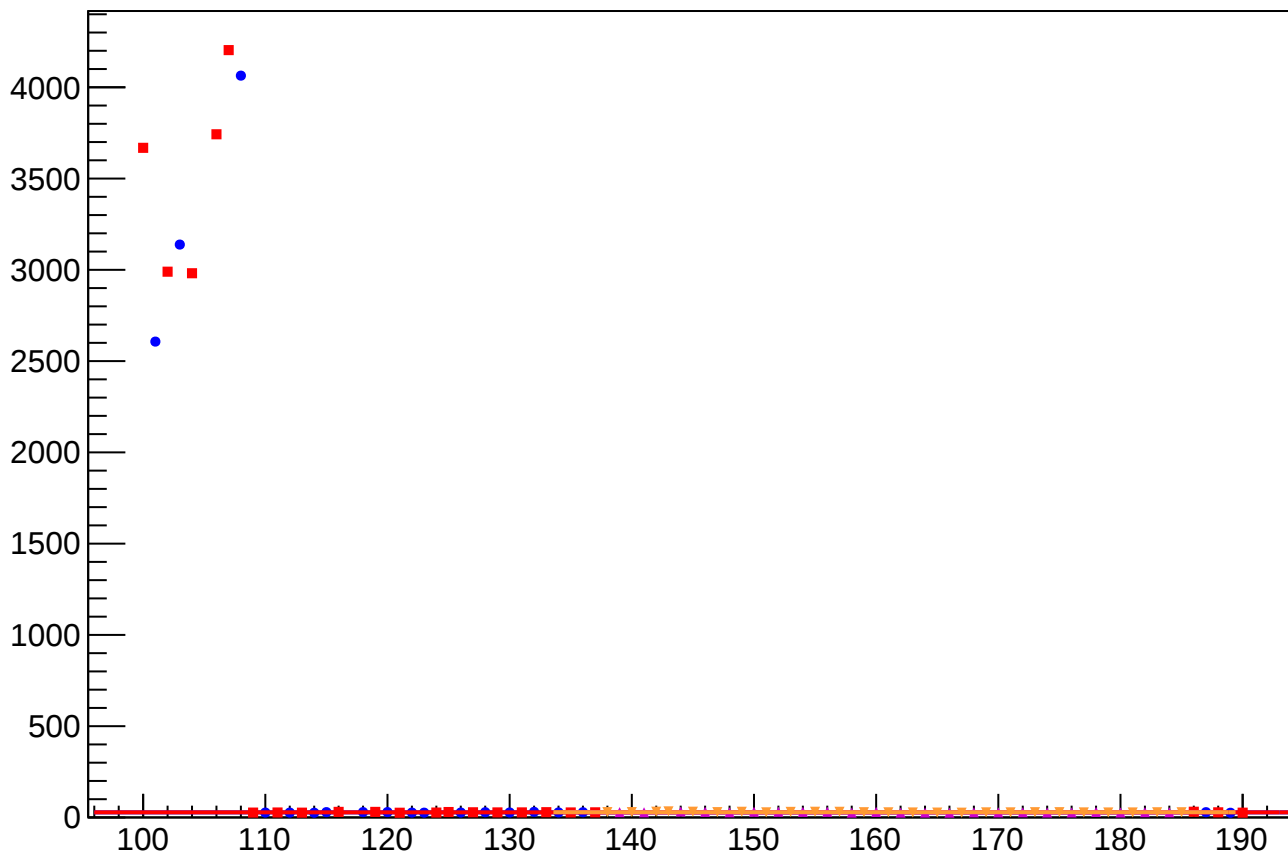
Right: 12.203+/-7.943 χ^2/NDF : 44.7/40

In: 1.567+/-5.947 χ^2/NDF : 49.8/41

Out: -6.447+/-5.712 χ^2/NDF : 44.7/46

All: -2.601+/-4.120 χ^2/NDF : 95.4/88

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.879+/-0.008 χ^2 /NDF: 3034744.9/18

Left Out: 28.813+/-0.005 χ^2 /NDF:121973.8/24

Right Out: 28.007+/-0.008 χ^2 /NDF: 3491945.4/21

Left In: 28.792+/-0.005 χ^2 /NDF:129393.1/22

Left: 28.803+/-0.003 χ^2 /NDF: 251375.8/47

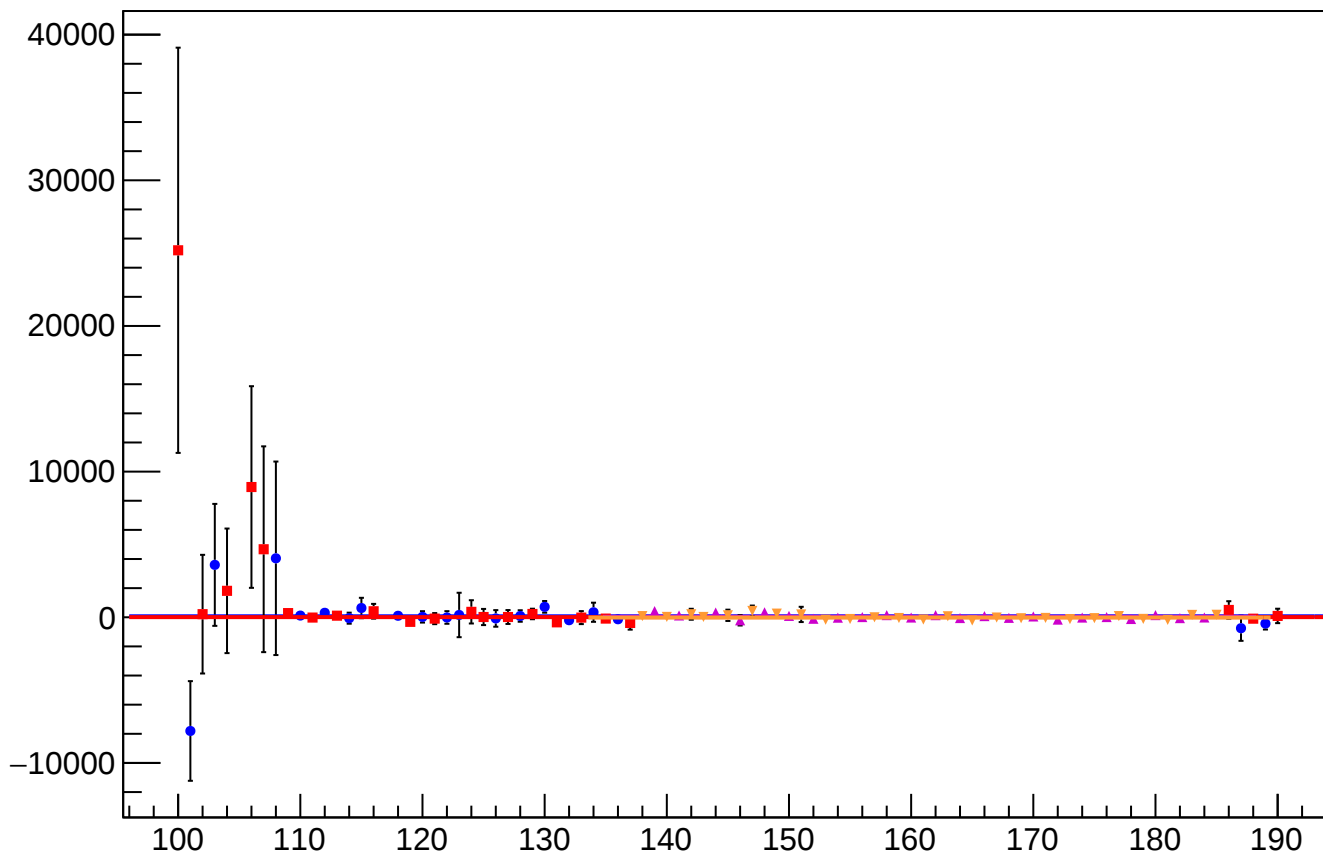
Right: 27.948+/-0.006 χ^2 /NDF: 6526818.8/40

In: 28.556+/-0.004 χ^2 /NDF:3173198.1/41

Out: 28.589+/-0.004 χ^2 /NDF:3621913.9/46

All: 28.573+/-0.003 χ^2 /NDF: 6795143.6/88

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.547+/-87.030 χ^2/NDF : 15.1/18

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: 10.236+/-76.753 χ^2/NDF : 13.2/21

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

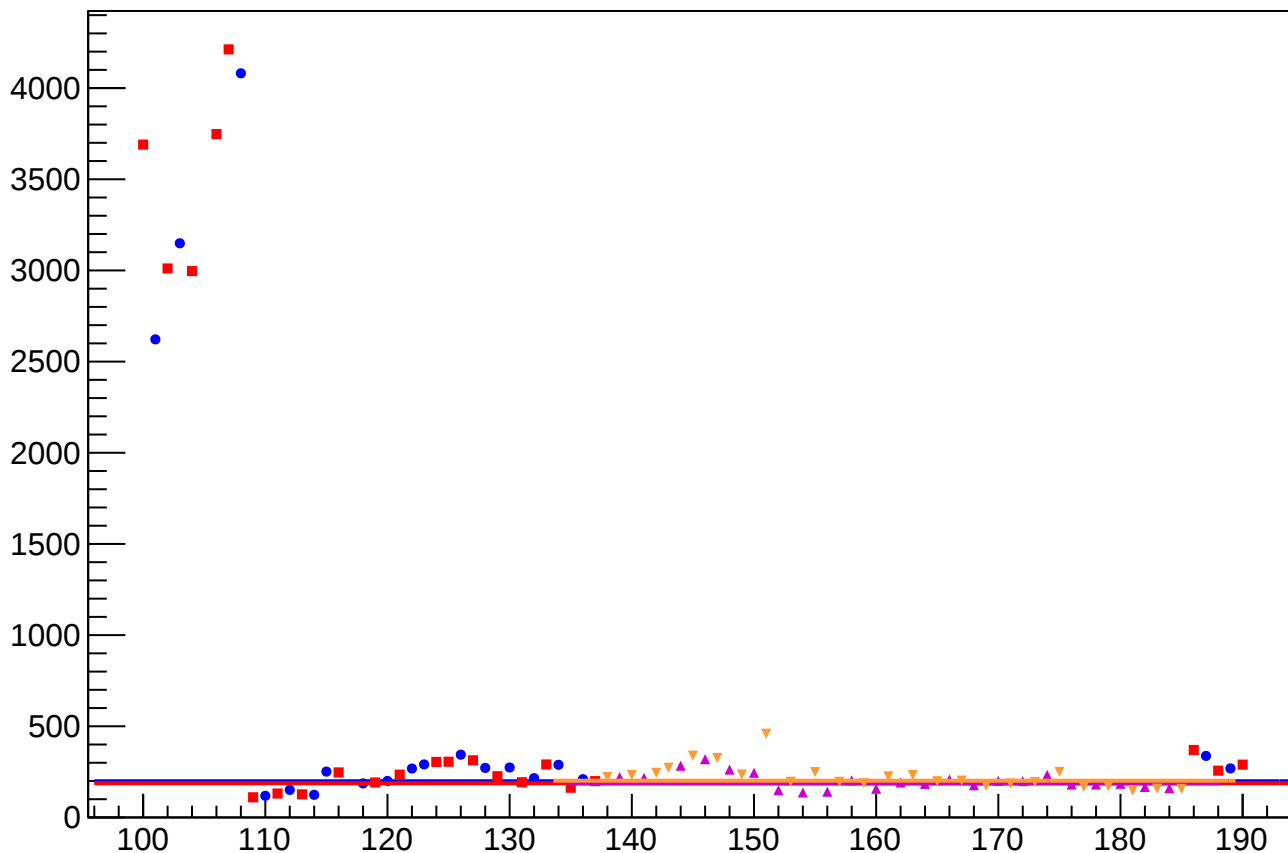
Right: 35.309+/-57.565 χ^2/NDF : 28.5/40

In: 39.211+/-40.916 χ^2/NDF : 23.4/41

Out: -8.150+/-41.114 χ^2/NDF : 21.2/46

All: 15.644+/-29.002 χ^2/NDF : 45.3/88

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 198.551+/-0.062 χ^2/NDF : 3655428.7/18

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 187.675+/-0.054 χ^2/NDF : 4603461.2/21

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

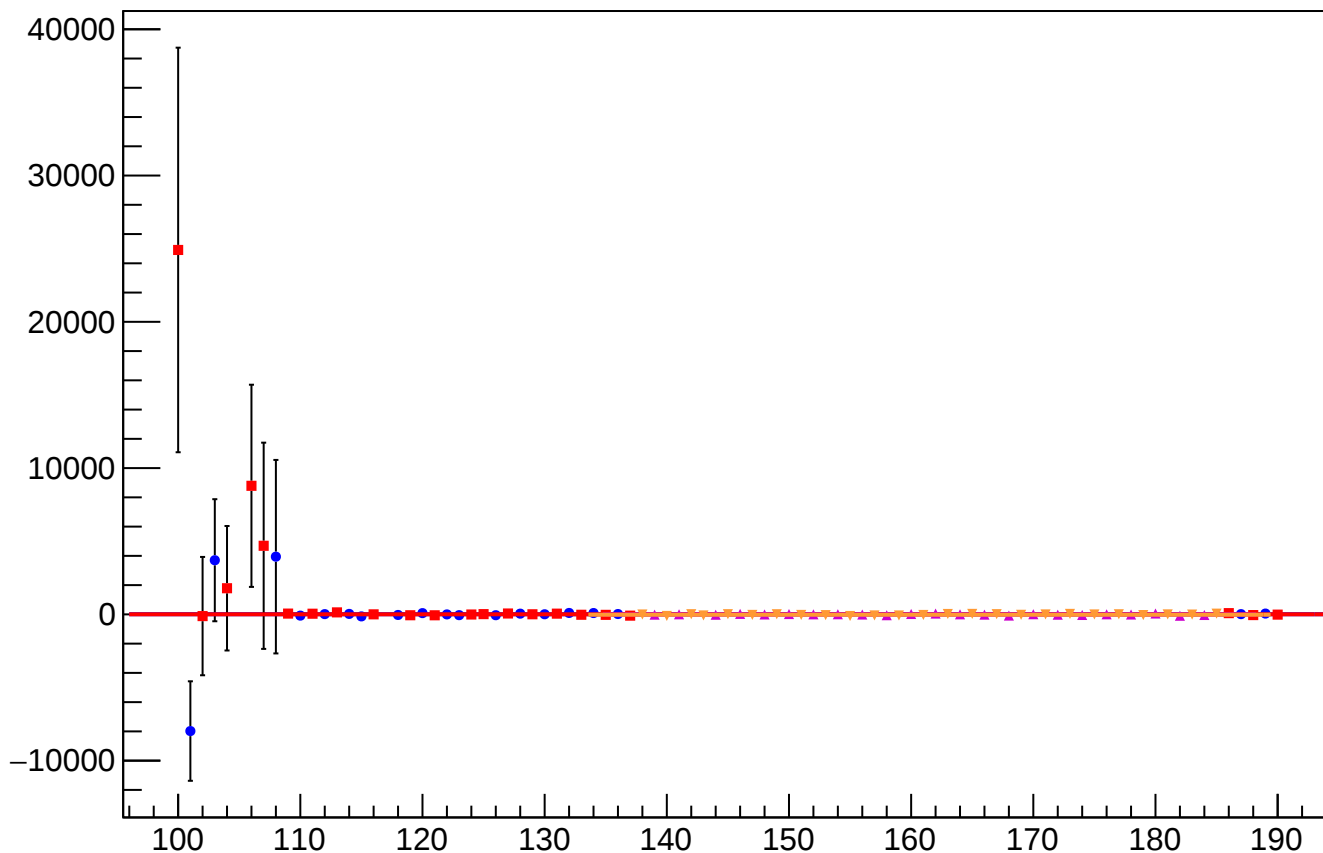
Right: 192.433+/-0.041 χ^2/NDF : 8276458.0/40

In: 188.857+/-0.029 χ^2/NDF :5078607.6/41

Out: 197.605+/-0.029 χ^2/NDF :6507854.2/46

All: 193.210+/-0.021 χ^2/NDF : 11631944.4/88

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.308+/-14.248 χ^2/NDF : 21.1/18

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 5.547+/-13.155 χ^2/NDF : 25.7/21

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

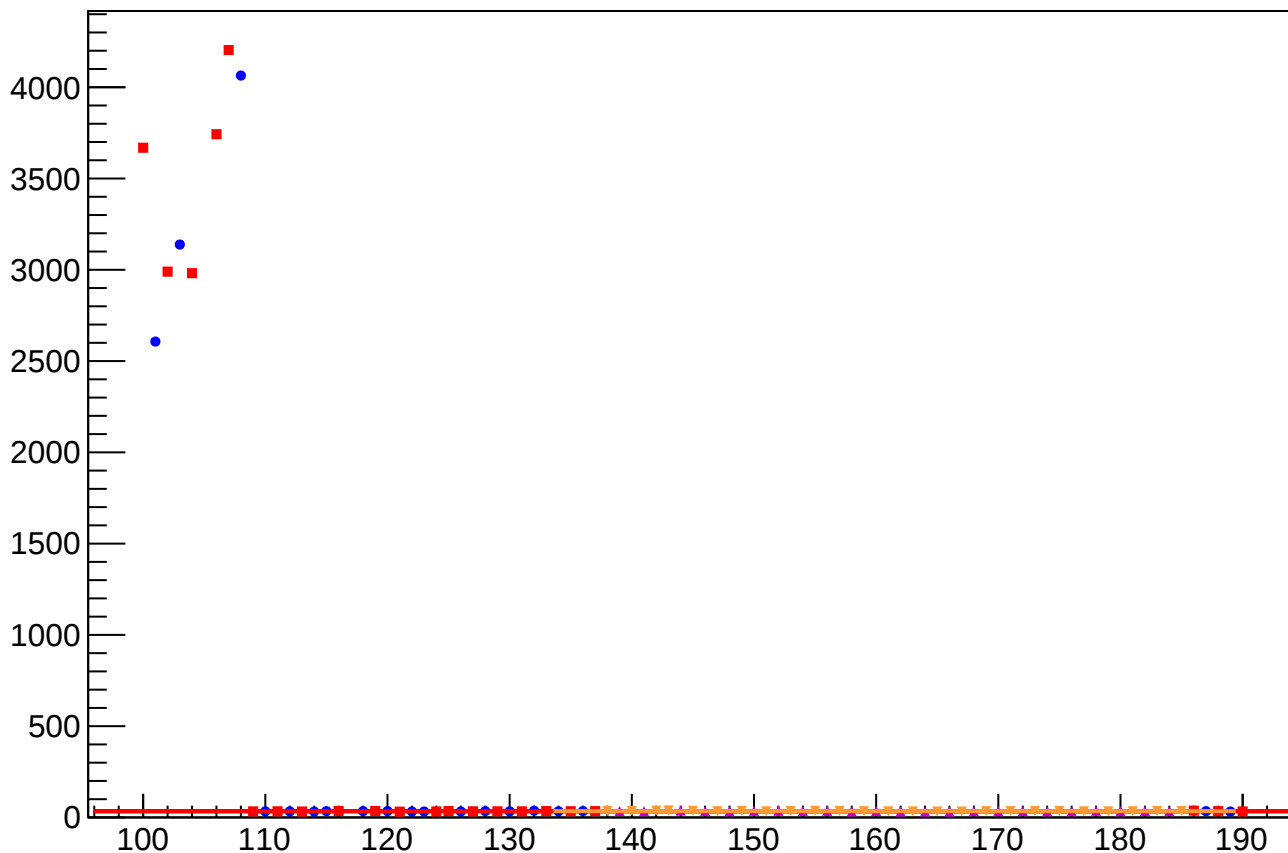
Right: 8.198+/-9.665 χ^2/NDF : 46.9/40

In: -1.608+/-7.177 χ^2/NDF : 43.3/41

Out: -15.464+/-6.875 χ^2/NDF : 55.0/46

All: -8.834+/-4.965 χ^2/NDF : 100.3/88

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.044 $\pm$ 0.010 χ^2 /NDF: 3009304.8/18

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 34.097 $\pm$ 0.009 χ^2 /NDF: 3458961.4/21

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

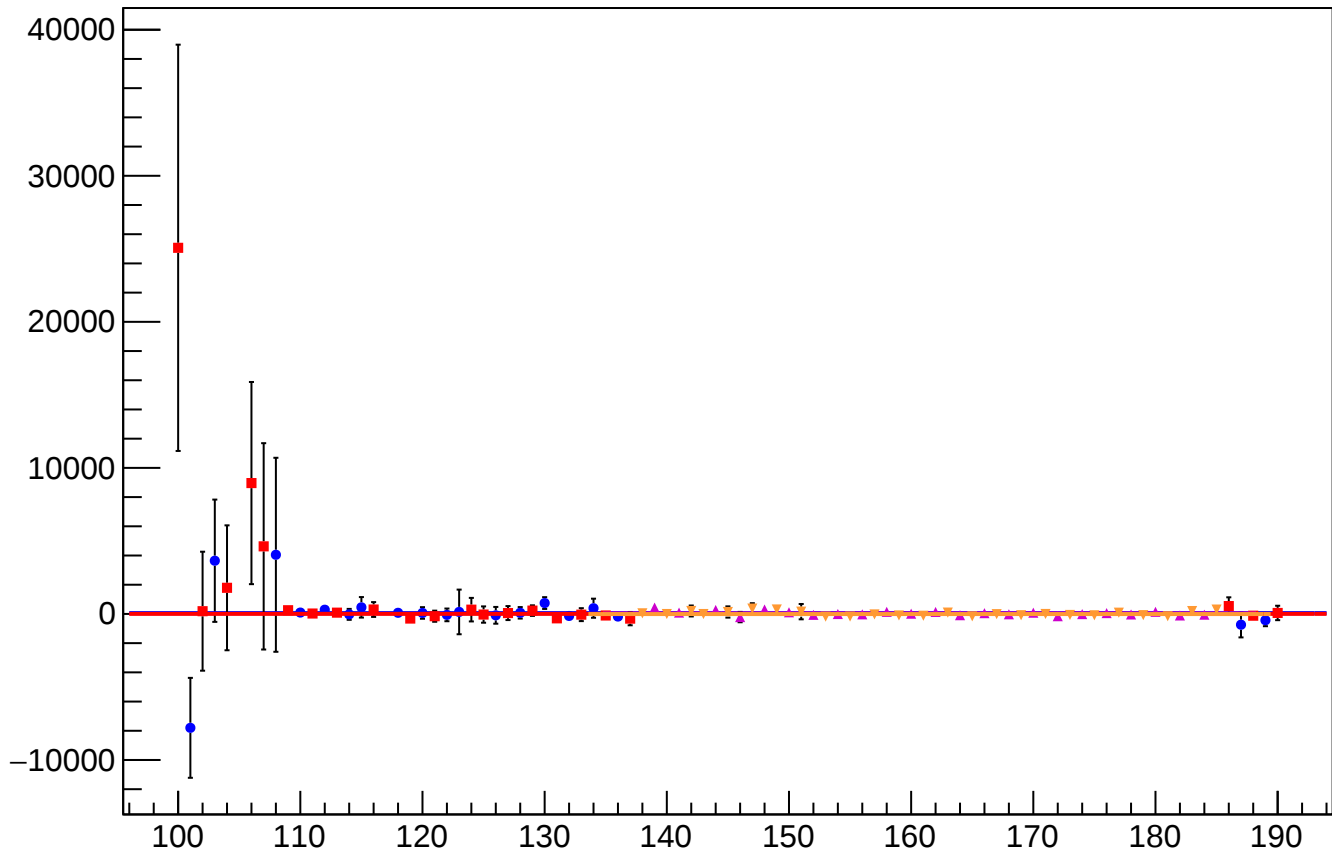
Right: 34.073 $\pm$ 0.007 χ^2 /NDF: 6468281.5/40

In: 34.522 $\pm$ 0.005 χ^2 /NDF: 3072643.9/41

Out: 34.473 $\pm$ 0.005 χ^2 /NDF: 3519154.2/46

All: 34.497 $\pm$ 0.004 χ^2 /NDF: 6591847.1/88

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 55.911+/-86.606 χ^2/NDF : 14.9/18

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: 5.220+/-76.294 χ^2/NDF : 12.1/21

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

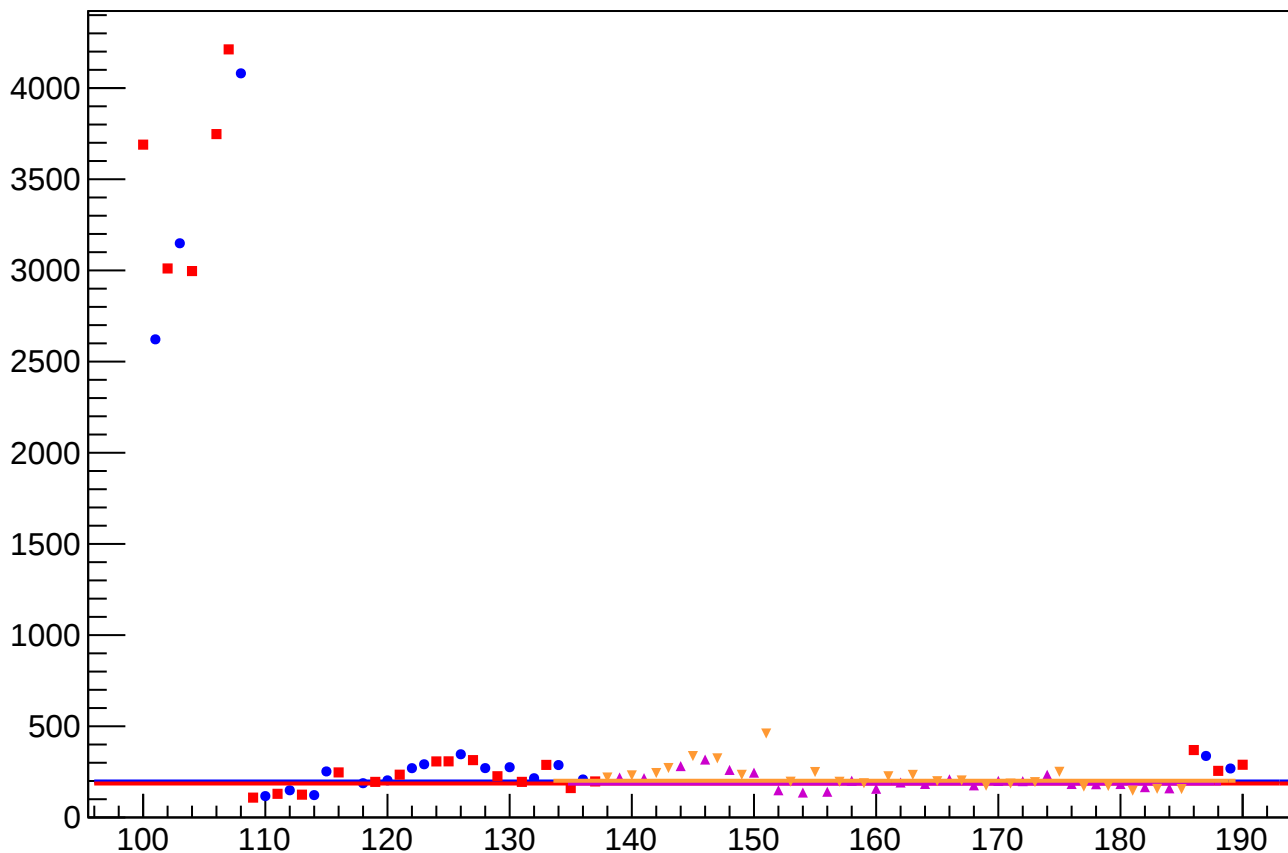
Right: 27.369+/-57.248 χ^2/NDF : 27.2/40

In: 38.969+/-40.829 χ^2/NDF : 22.3/41

Out: -4.834+/-40.999 χ^2/NDF : 20.8/46

All: 17.158+/-28.930 χ^2/NDF : 43.7/88

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.234 $\pm$ 0.061 χ^2 /NDF: 3695884.8/18

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 186.130 $\pm$ 0.054 χ^2 /NDF: 4656771.1/21

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

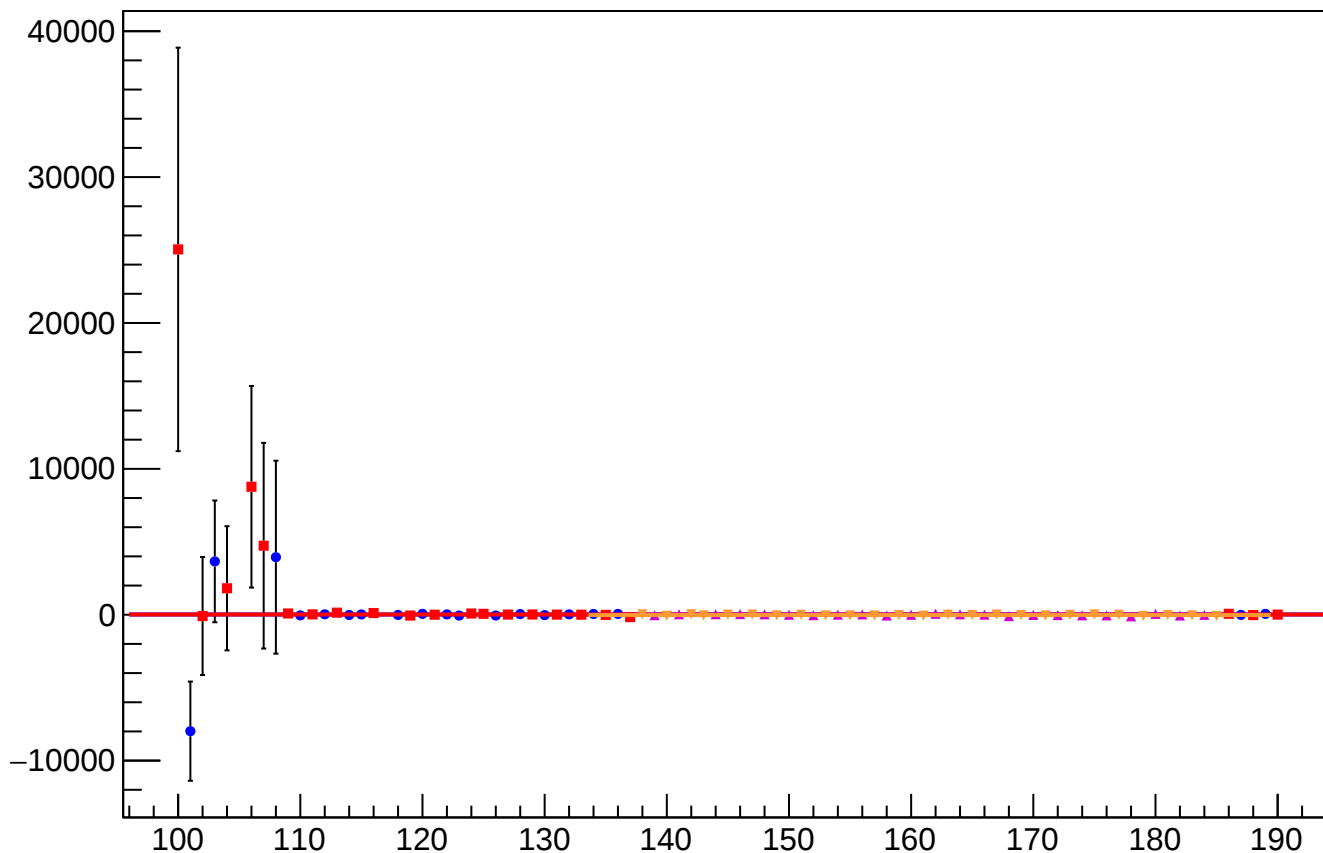
Right: 190.982 $\pm$ 0.040 χ^2 /NDF: 8371169.4/40

In: 188.383 $\pm$ 0.029 χ^2 /NDF:5104516.4/41

Out: 196.917 $\pm$ 0.029 χ^2 /NDF:6564117.2/46

All: 192.632 $\pm$ 0.020 χ^2 /NDF: 11712134.9/88

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 15.765+/-12.964 χ^2/NDF : 15.6/18

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 17.152+/-11.977 χ^2/NDF : 30.2/21

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

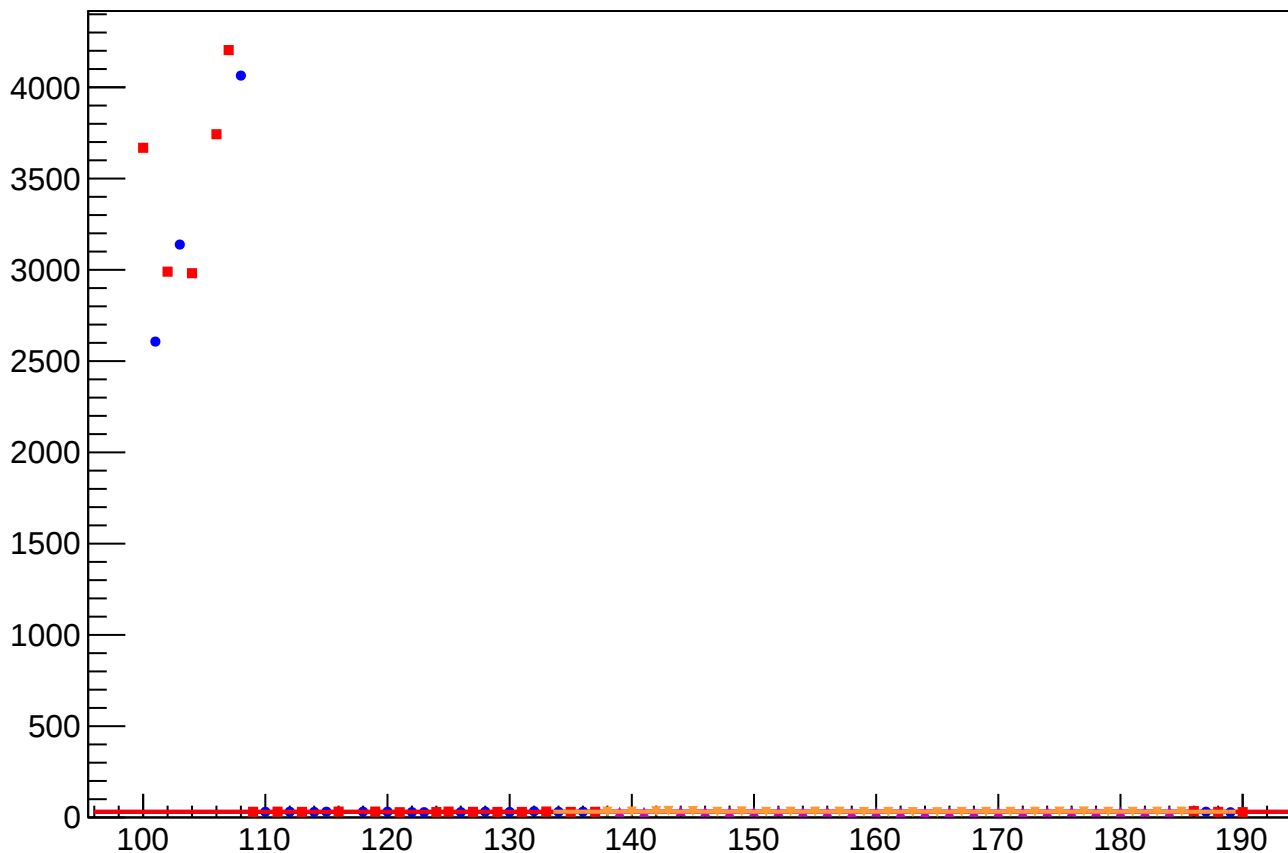
Right: 16.513+/-8.797 χ^2/NDF : 45.9/40

In: -0.446+/-6.524 χ^2/NDF :56.1/41

Out: -11.948+/-6.258 χ^2/NDF :57.1/46

All: -6.436+/-4.516 χ^2/NDF : 114.8/88

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.971+/-0.009 χ^2/NDF : 3020113.3/18

Left Out: 31.482+/-0.005 χ^2/NDF : 82437.2/24

Right Out: 31.007+/-0.008 χ^2/NDF : 3469608.9/21

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

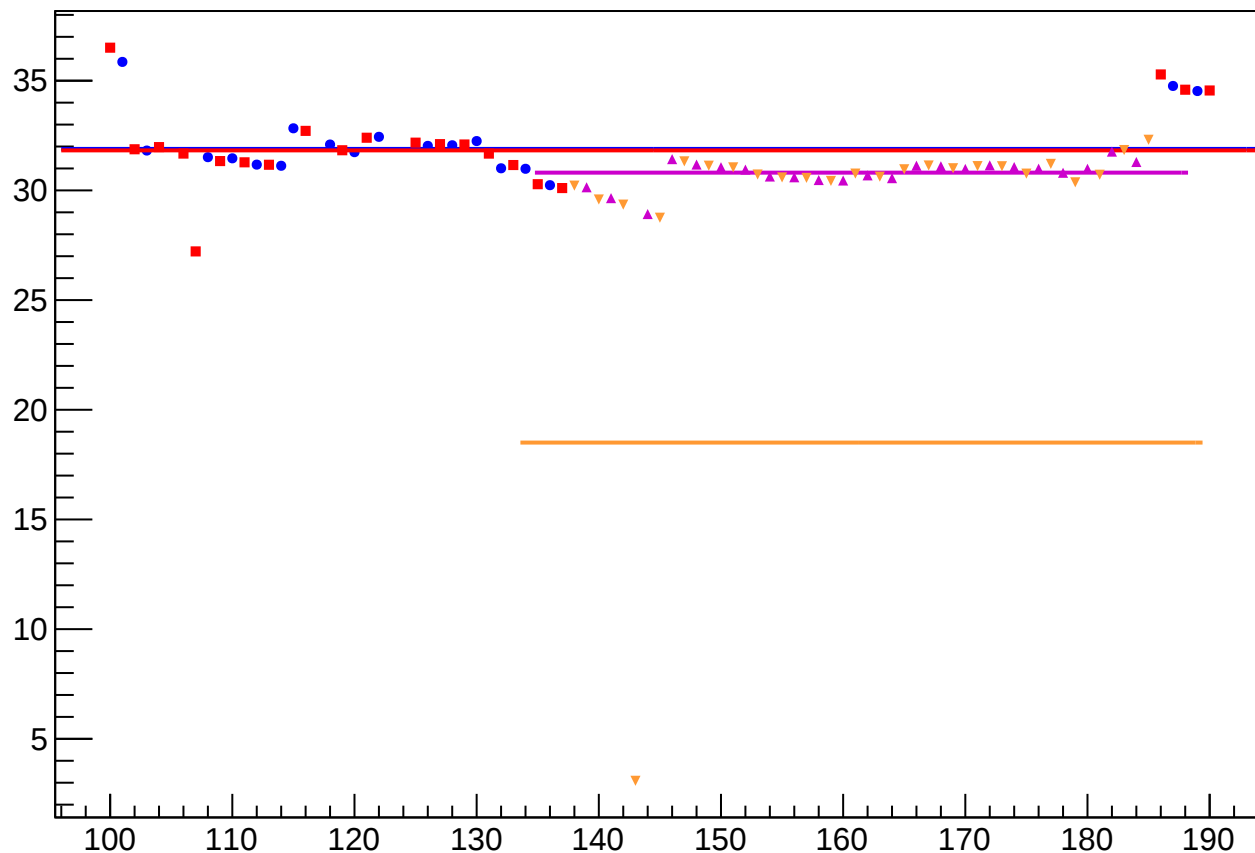
Right: 30.991+/-0.006 χ^2/NDF : 6489730.4/40

In: 31.354+/-0.005 χ^2/NDF : 3110434.1/41

Out: 31.352+/-0.004 χ^2/NDF : 3554329.5/46

All: 31.353+/-0.003 χ^2/NDF : 6664763.8/88

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.891+/-0.000 χ^2/NDF : 1769182405.6/17

Left Out: 18.505+/-0.000 χ^2/NDF : 940607632746.3/24

Right Out: 31.824+/-0.000 χ^2/NDF : 1563674406.9/20

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 22.806+/-0.000 χ^2/NDF : 1203928236724.3/47

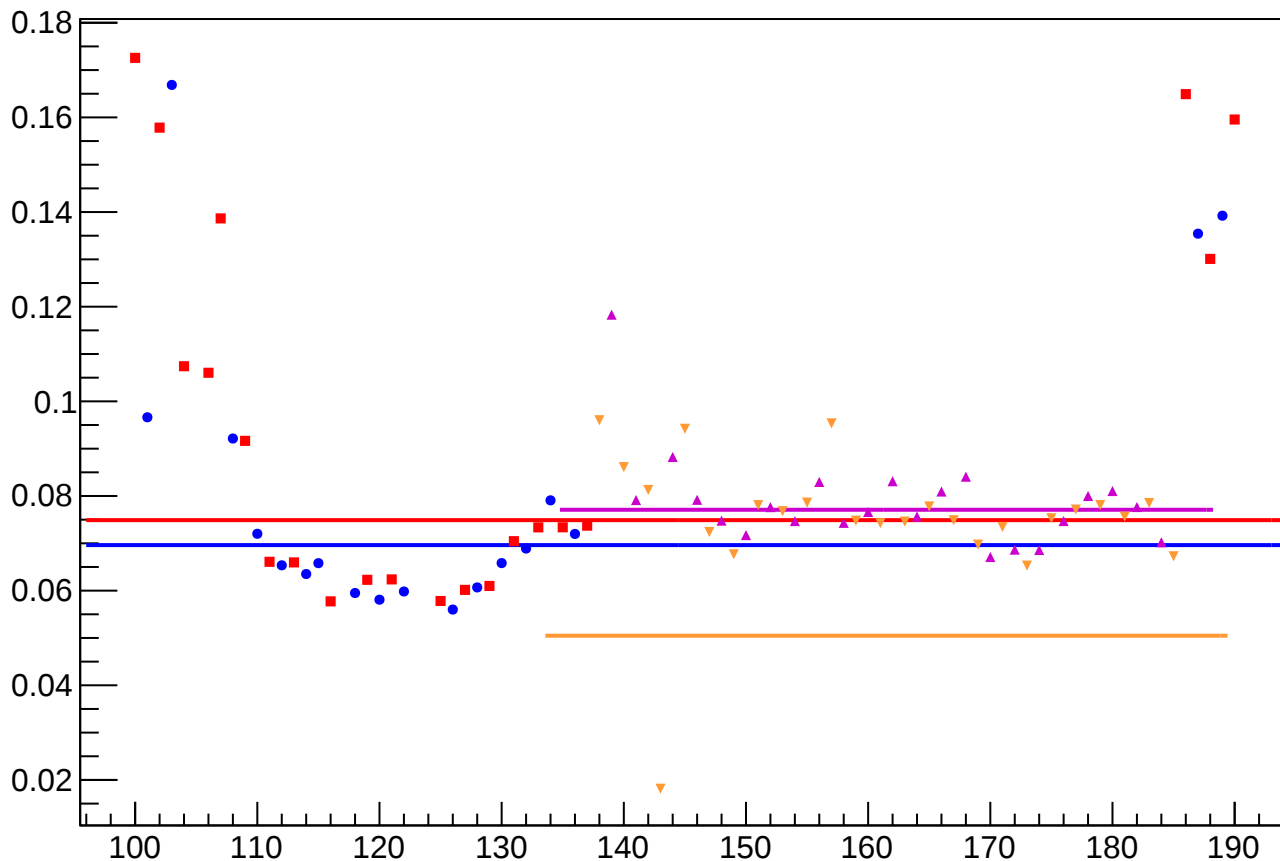
Right: 31.858+/-0.000 χ^2/NDF : 3335638111.8/38

In: 31.159+/-0.000 χ^2/NDF : 3598416646.7/40

Out: 21.211+/-0.000 χ^2/NDF : 1120958875412.8/45

All: 25.066+/-0.000 χ^2/NDF : 1363236403690

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.070 $\pm$ 0.000 χ^2 /NDF: 910263.1/17

Left Out: 0.050 $\pm$ 0.000 χ^2 /NDF: 8543648.6/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 1613281.1/20

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

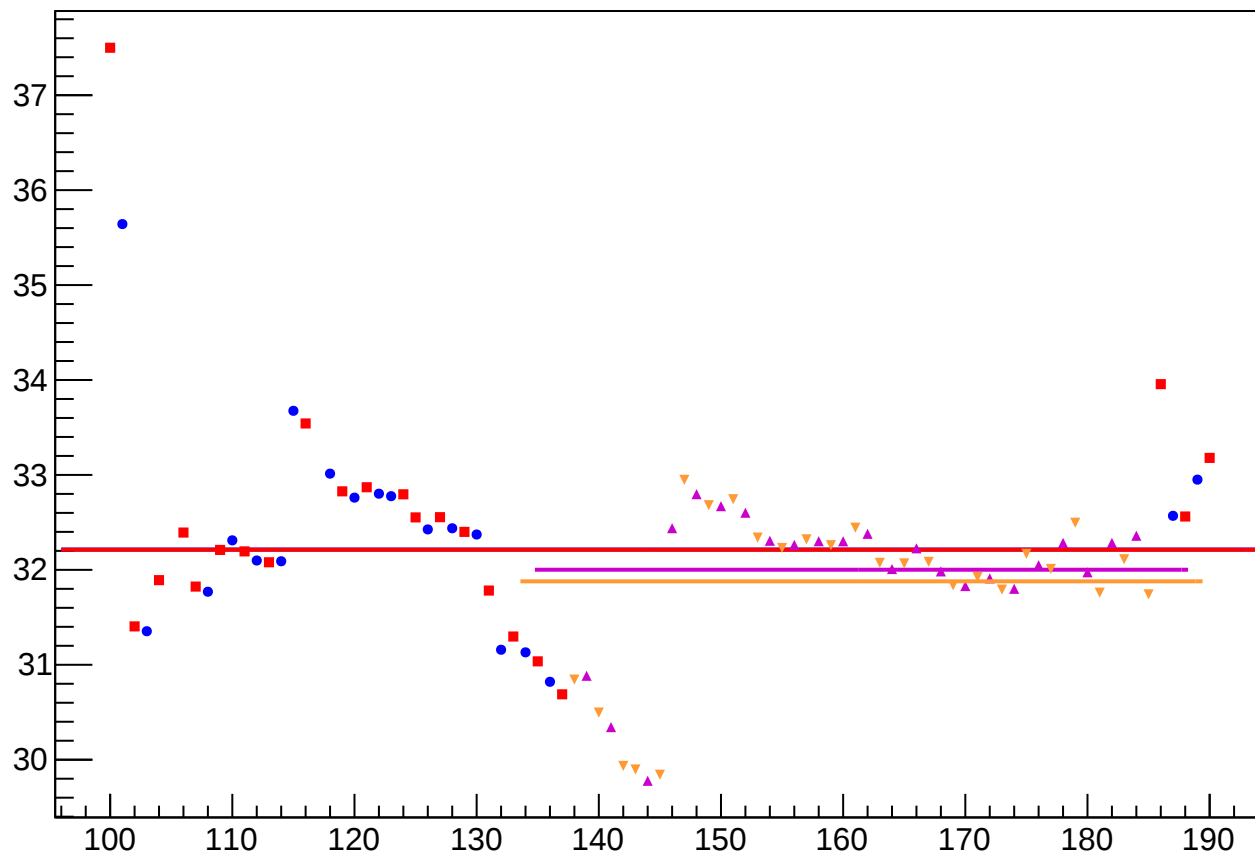
Right: 0.072 $\pm$ 0.000 χ^2 /NDF: 2558872.3/38

In: 0.075 $\pm$ 0.000 χ^2 /NDF: 1332199.0/40

Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 11359001.3/45

All: 0.063 $\pm$ 0.000 χ^2 /NDF: 14476533.4/86

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.214+/-0.000 χ^2/NDF : 1012503660.7/18

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.212+/-0.000 χ^2/NDF : 497629794.2/21

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

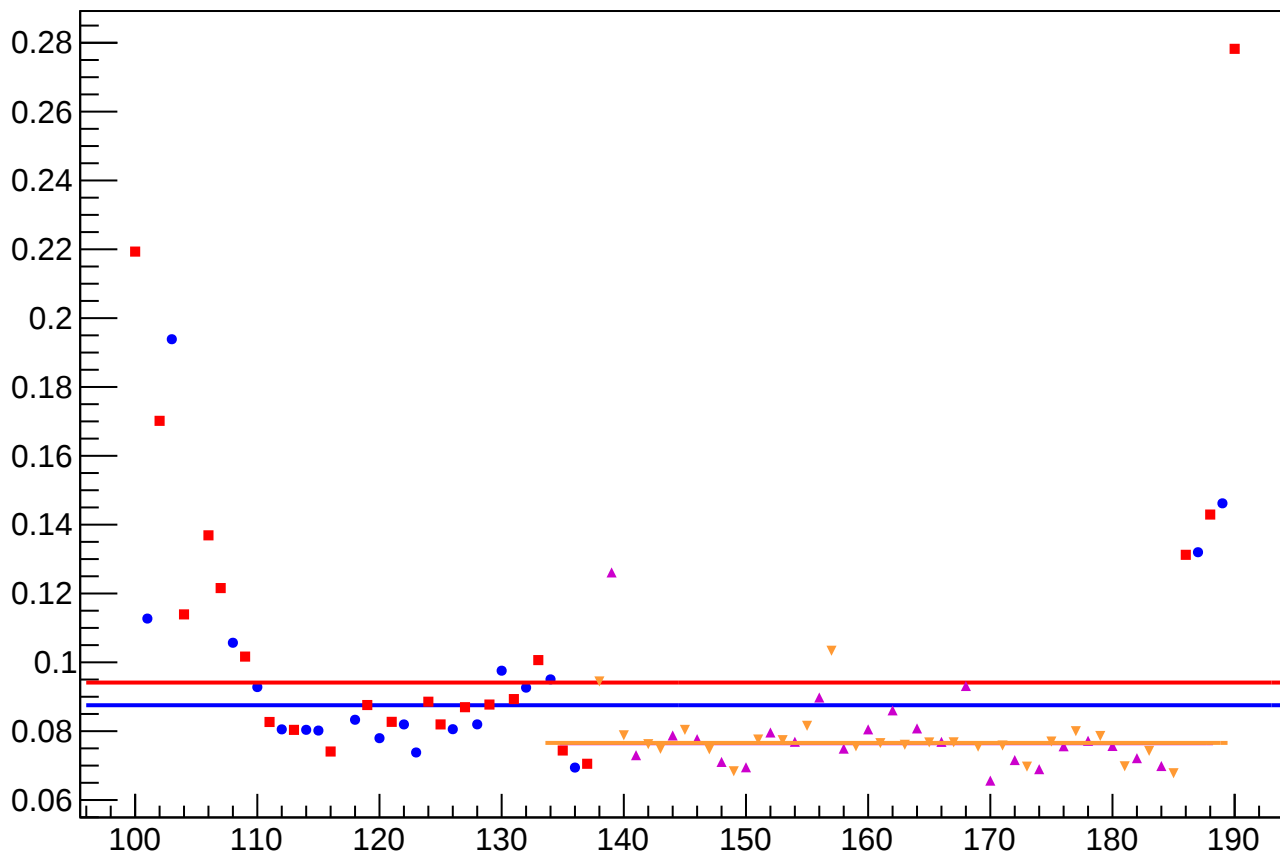
Right: 32.213+/-0.000 χ^2/NDF : 1510135962.8/40

In: 32.050+/-0.000 χ^2/NDF : 2451944255.7/41

Out: 31.954+/-0.000 χ^2/NDF : 2545085244.6/46

All: 32.001+/-0.000 χ^2/NDF : 5013837405.8/8

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000 χ^2/NDF : 707941.5/18

Left Out: 0.077+/-0.000 χ^2/NDF :209648.5/24

Right Out: 0.094+/-0.000 χ^2/NDF : 1112841.7/21

Left In: 0.076+/-0.000 χ^2/NDF :432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

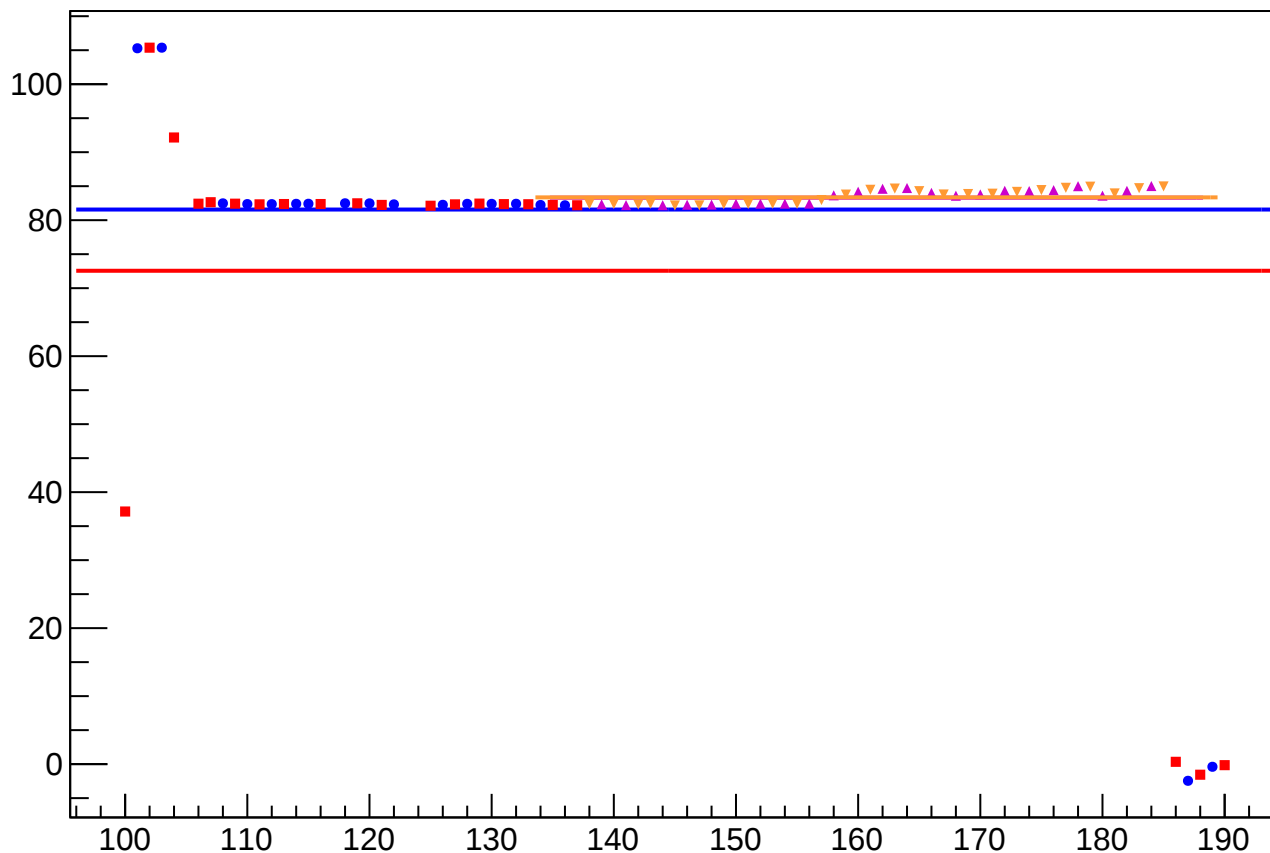
Right: 0.091+/-0.000 χ^2/NDF : 1856345.8/40

In: 0.079+/-0.000 χ^2/NDF :1292887.7/41

Out: 0.081+/-0.000 χ^2/NDF :1718292.6/46

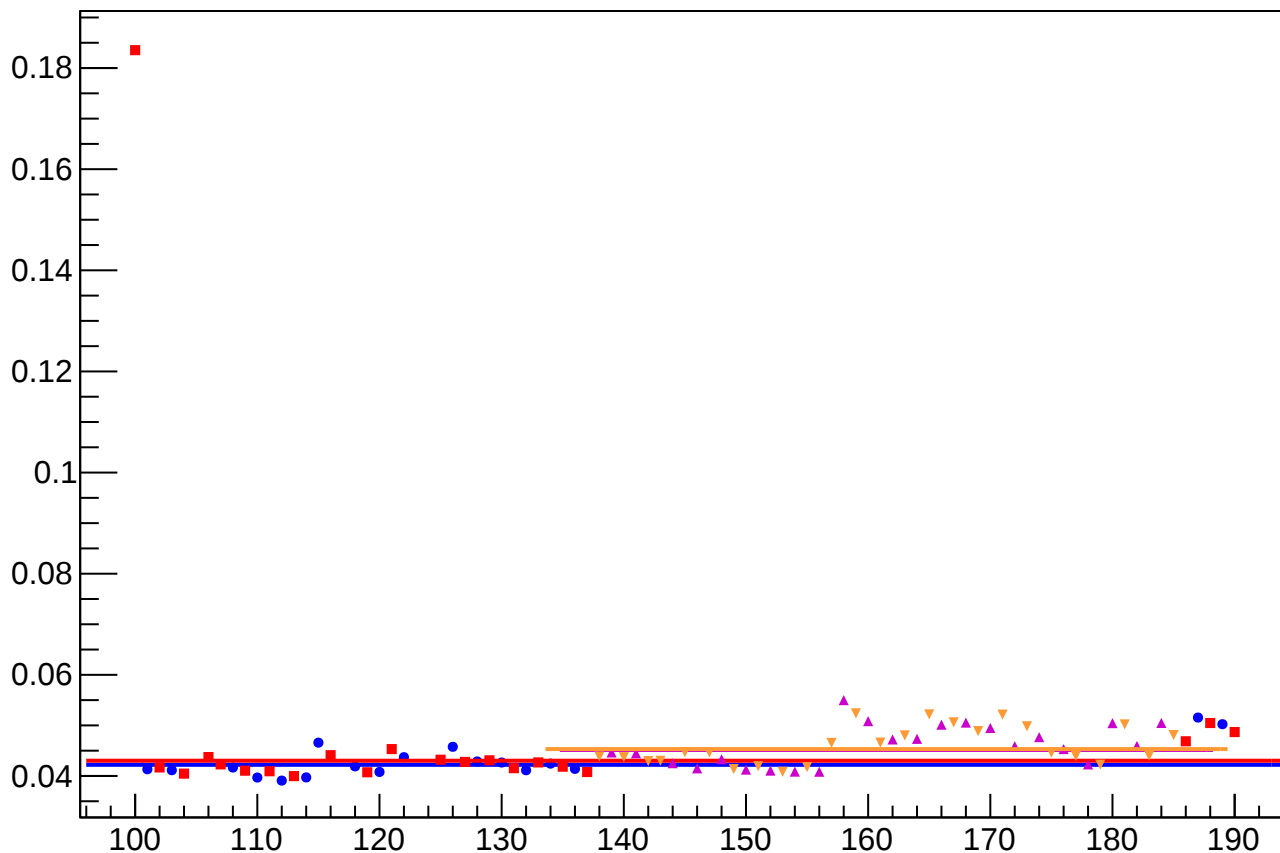
All: 0.080+/-0.000 χ^2/NDF : 3019371.2/88

yield_dsl_mean vs Slug, Sign Corrected



Right In: 81.565+/-0.000	χ^2/NDF : 1901450979326.3/17	Left: 83.332+/-0.000	χ^2/NDF : 17572666767.1/47
Left Out: 83.355+/-0.000	χ^2/NDF : 9142393022.8/24	Right: 76.763+/-0.000	χ^2/NDF : 6371100438289.8/3
Right Out: 72.560+/-0.000	χ^2/NDF : 4297447228827.9/20	In: 82.744+/-0.000	χ^2/NDF : 1918056529759.9/40
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 79.649+/-0.000	χ^2/NDF : 4654684275807.8/45
		All: 81.139+/-0.000	χ^2/NDF : 6633863765059

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 52680.5/17

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:211358.2/24

Right Out: 0.043 $\pm$ 0.000 χ^2 /NDF: 157558.2/20

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 454494.8/47

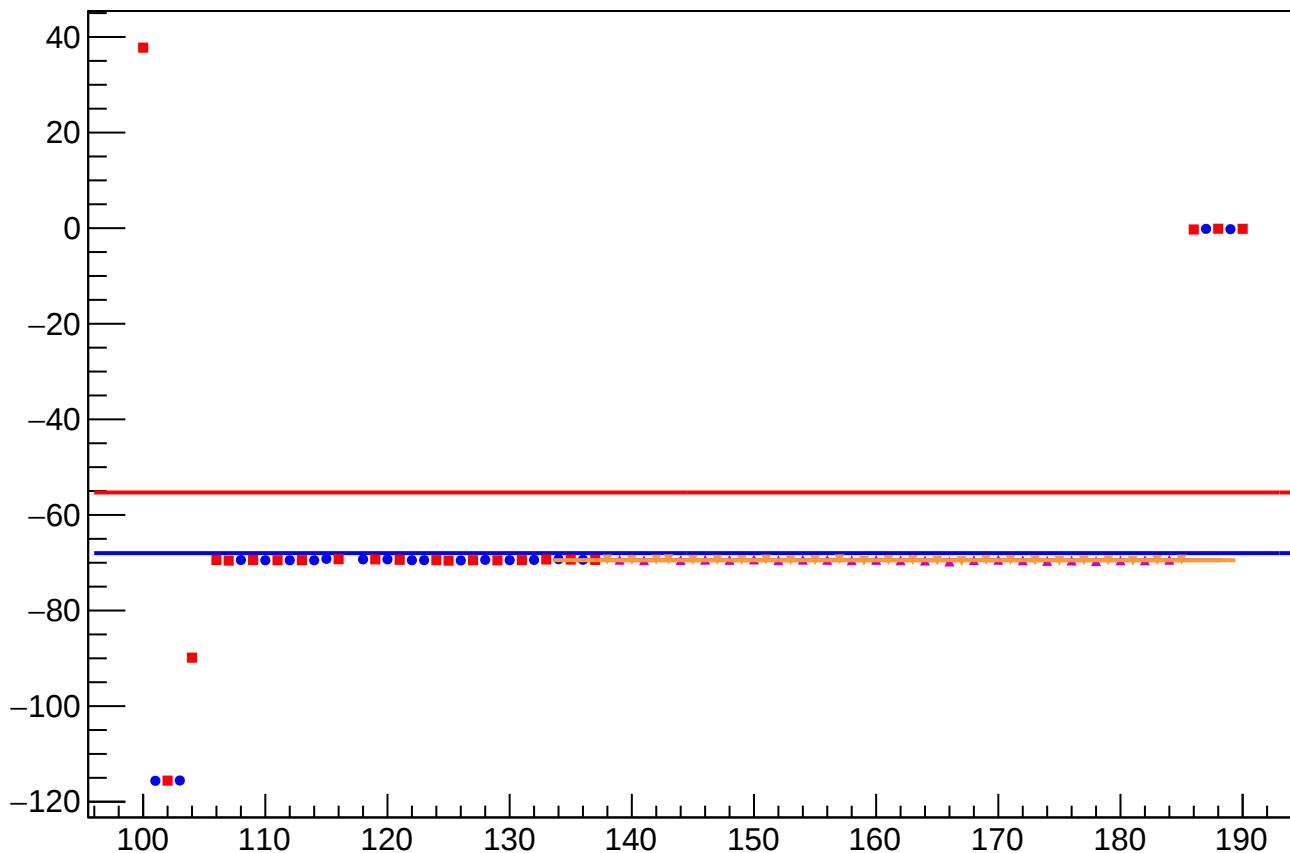
Right: 0.043 $\pm$ 0.000 χ^2 /NDF: 213028.5/38

In: 0.044 $\pm$ 0.000 χ^2 /NDF:342021.9/40

Out: 0.045 $\pm$ 0.000 χ^2 /NDF:400470.3/45

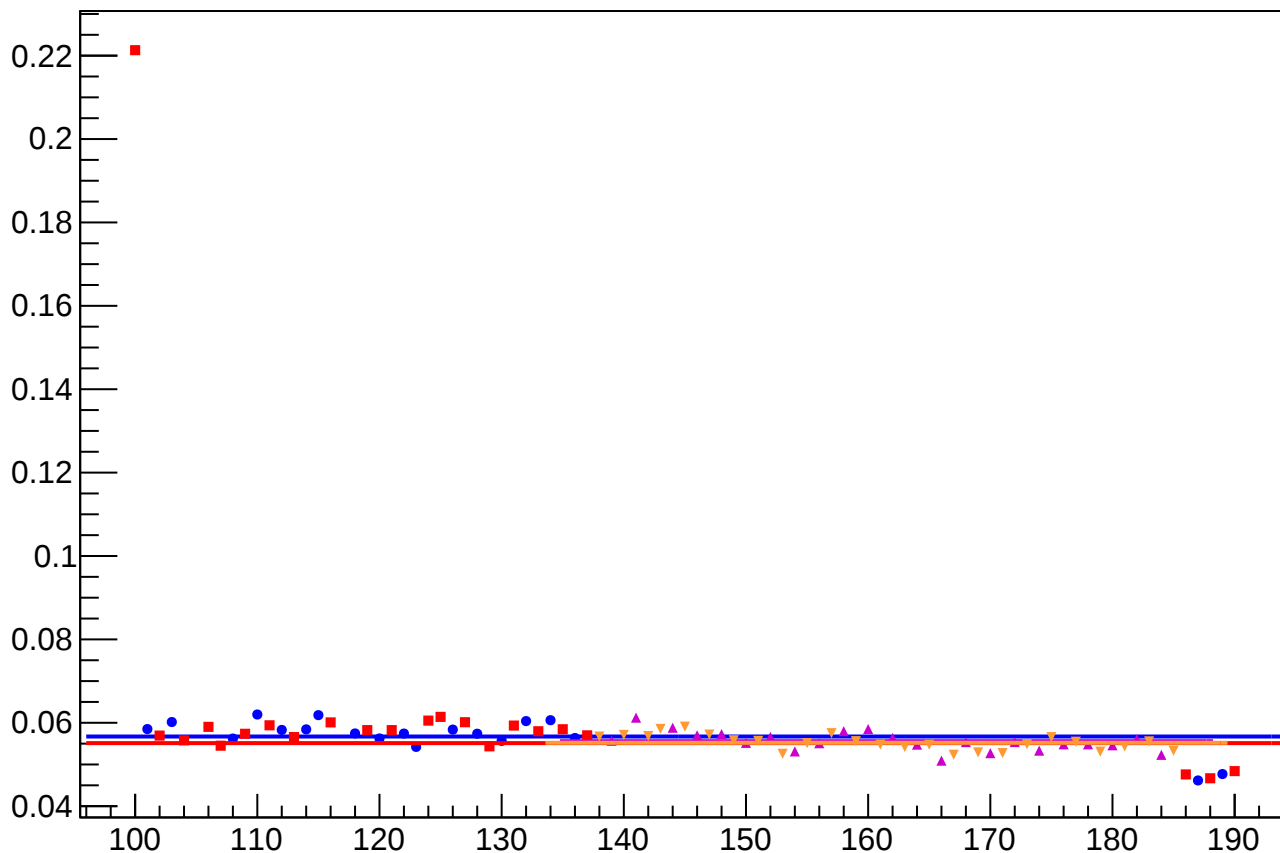
All: 0.044 $\pm$ 0.000 χ^2 /NDF: 743912.0/86

yield_dsr_mean vs Slug, Sign Corrected



Right In: -67.992+/-0.000 χ^2/NDF : 1901975430878.5/18
 Left: -69.460+/-0.000 χ^2/NDF : 102399164.0/47
 Left Out: -69.461+/-0.000 χ^2/NDF : 49572401.9/24
 Right: -60.889+/-0.000 χ^2/NDF : 5390533204173.1/1
 Right Out: -55.303+/-0.000 χ^2/NDF : 3293468697742.5/21
 In: -69.041+/-0.000 χ^2/NDF : 1905360104820.0/41
 Left In: -69.458+/-0.000 χ^2/NDF : 52798704.3/22
 Out: -64.921+/-0.000 χ^2/NDF : 3668316001005.5/4
 All: -66.858+/-0.000 χ^2/NDF : 564218012007

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.000 χ^2 /NDF: 64184.9/18

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 207474.9/21

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

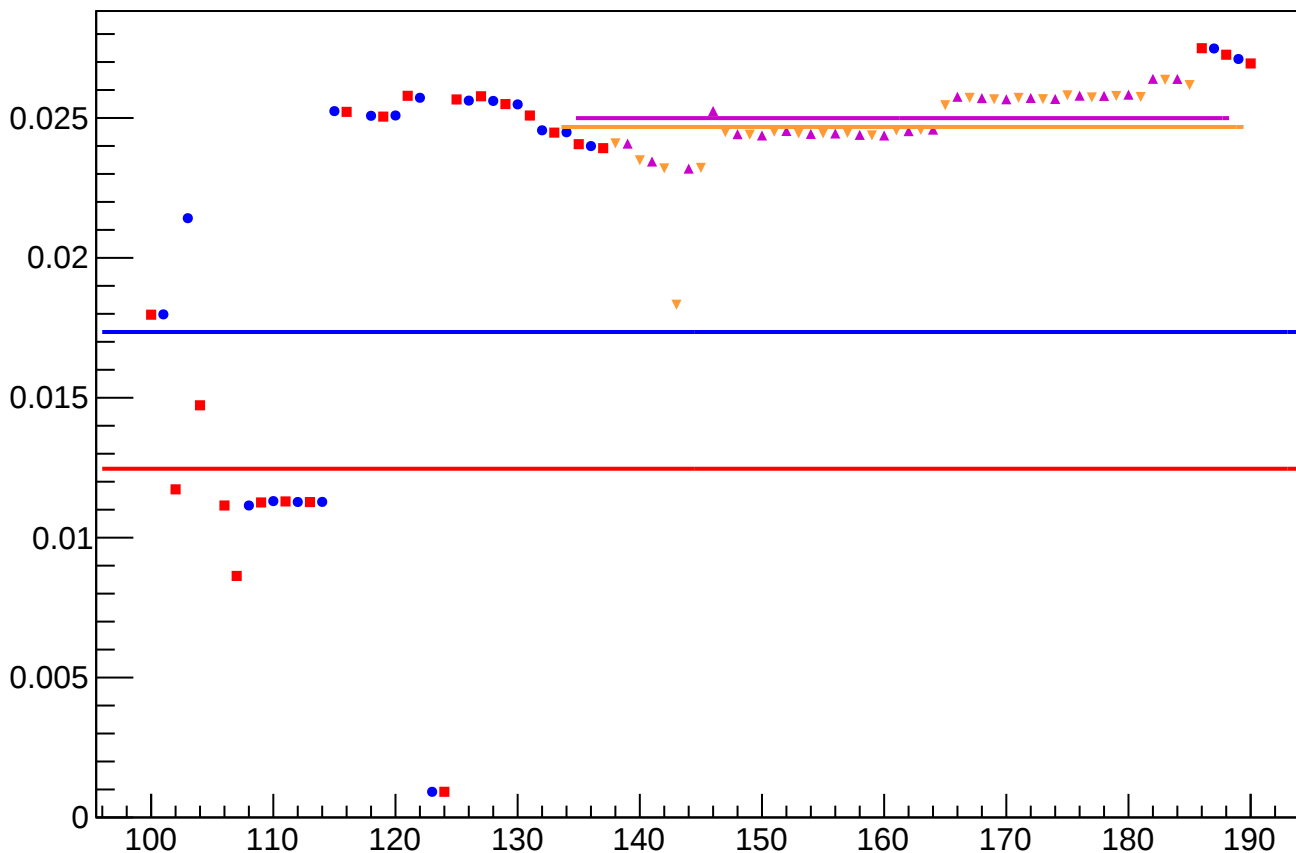
Right: 0.056 $\pm$ 0.000 χ^2 /NDF: 277714.9/40

In: 0.056 $\pm$ 0.000 χ^2 /NDF:120223.2/41

Out: 0.055 $\pm$ 0.000 χ^2 /NDF:246261.9/46

All: 0.056 $\pm$ 0.000 χ^2 /NDF: 370755.2/88

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000

χ^2/NDF : 133706537108.2/18

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.014+/-0.000

χ^2/NDF : 436551922234.6/40

Right Out: 0.012+/-0.000

χ^2/NDF : 277917099040.0/21

In: 0.022+/-0.000

χ^2/NDF : 204534791096.5/41

Out: 0.020+/-0.000

χ^2/NDF : 514940368054.5/46

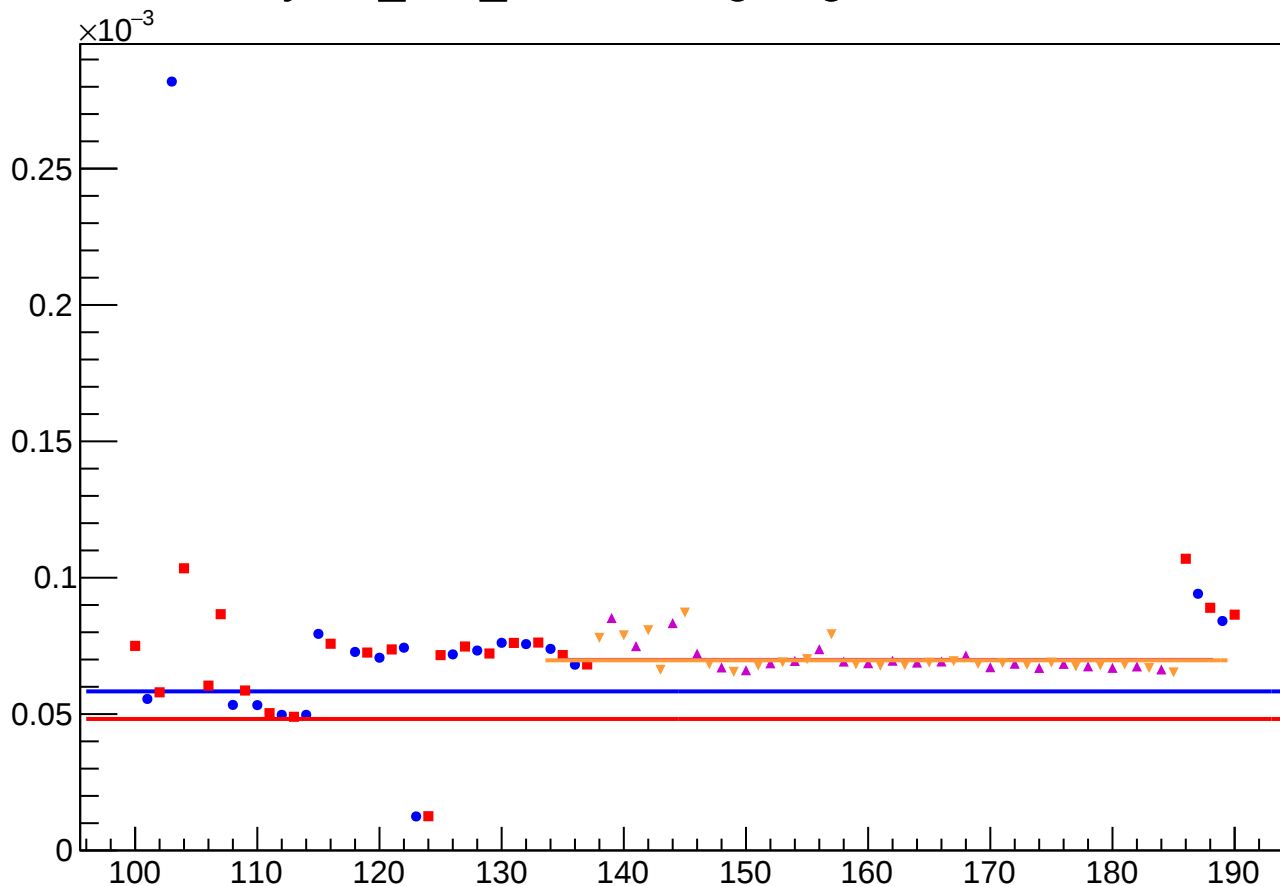
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.021+/-0.000

χ^2/NDF : 741696630732.6

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2124648.0/18

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 4372548.7/21

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

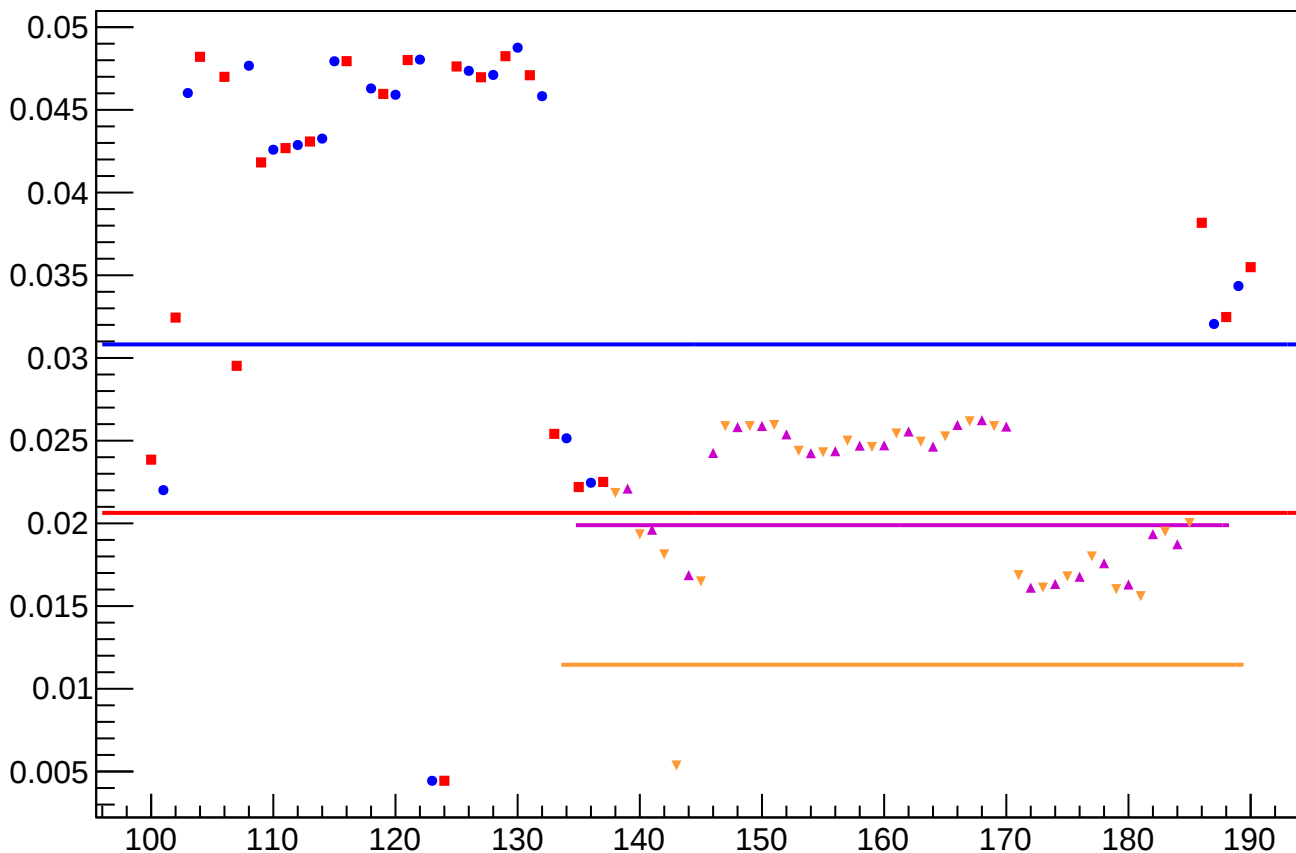
Right: 0.000+/-0.000 χ^2/NDF : 6710653.0/40

In: 0.000+/-0.000 χ^2/NDF :2565109.4/41

Out: 0.000+/-0.000 χ^2/NDF :5939885.9/46

All: 0.000+/-0.000 χ^2/NDF : 8655602.4/88

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21107654373.1/18

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.024+/-0.000

χ^2/NDF : 66738634635.7/40

Right Out: 0.021+/-0.000

χ^2/NDF : 40857808668.7/21

In: 0.022+/-0.000

χ^2/NDF : 32572498870.2/41

Out: 0.013+/-0.000

χ^2/NDF : 90019082598.1/46

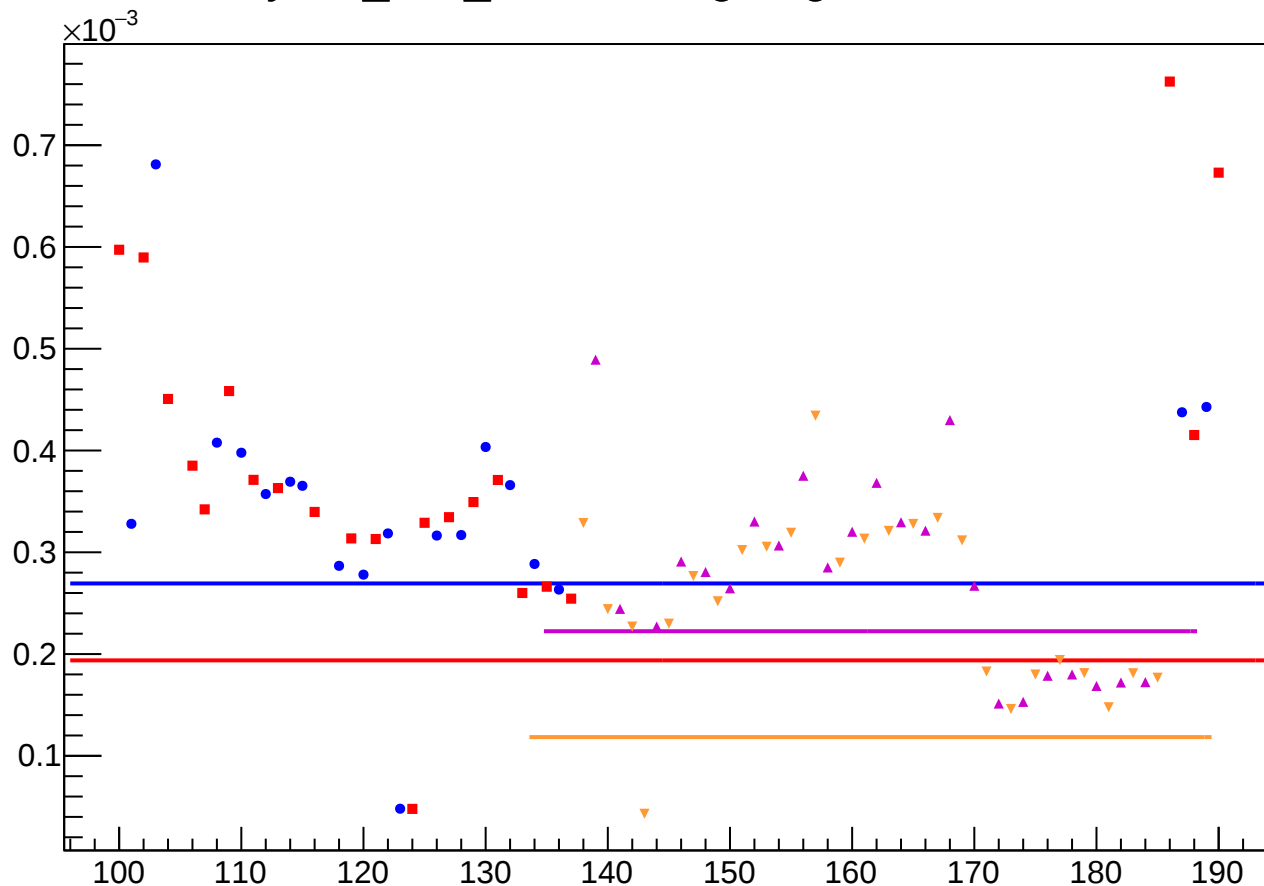
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 144527361487.0

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2556592.3/18

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6620441.6/21

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

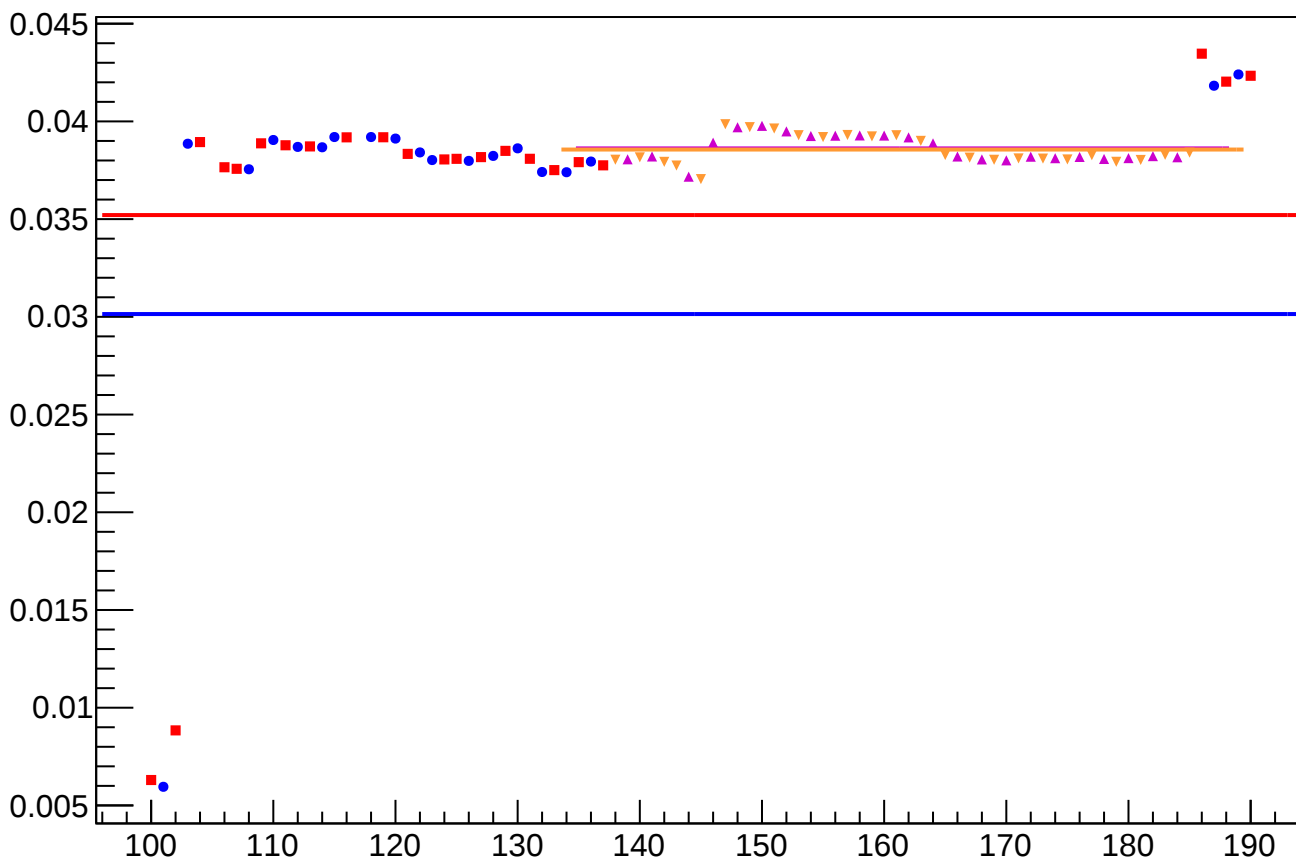
Right: 0.000+/-0.000 χ^2/NDF : 9702654.8/40

In: 0.000+/-0.000 χ^2/NDF :6096270.7/41

Out: 0.000+/-0.000 χ^2/NDF :21379594.5/46

All: 0.000+/-0.000 χ^2/NDF : 32813668.1/88

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 99050733700.2/18

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.033+/-0.000

χ^2/NDF : 150979433628.6/40

Right Out: 0.035+/-0.000

χ^2/NDF : 45799785992.4/21

In: 0.036+/-0.000

χ^2/NDF : 123133488087.5/41

Out: 0.038+/-0.000

χ^2/NDF : 50022692166.8/46

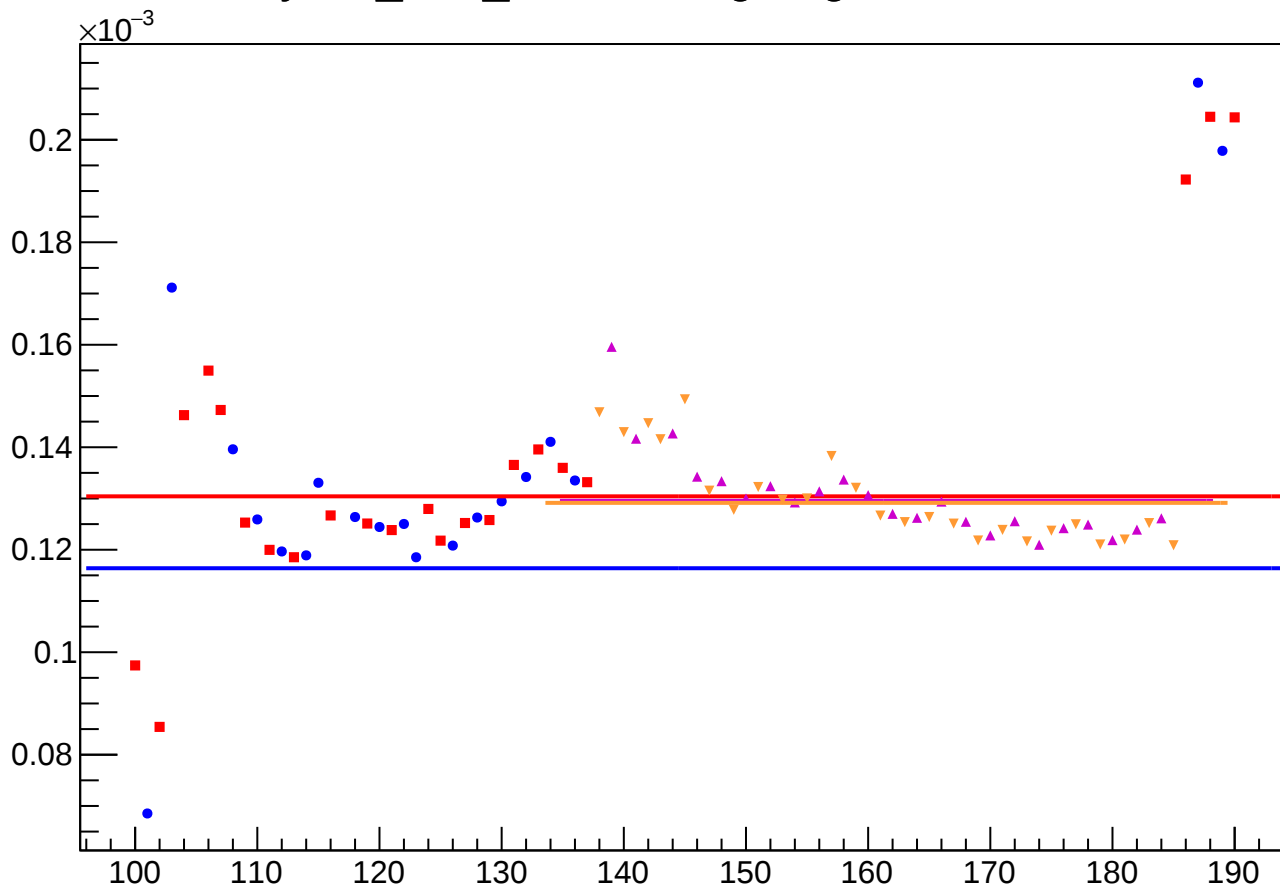
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 175262997776.8

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 999219.7/18

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 675456.9/21

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

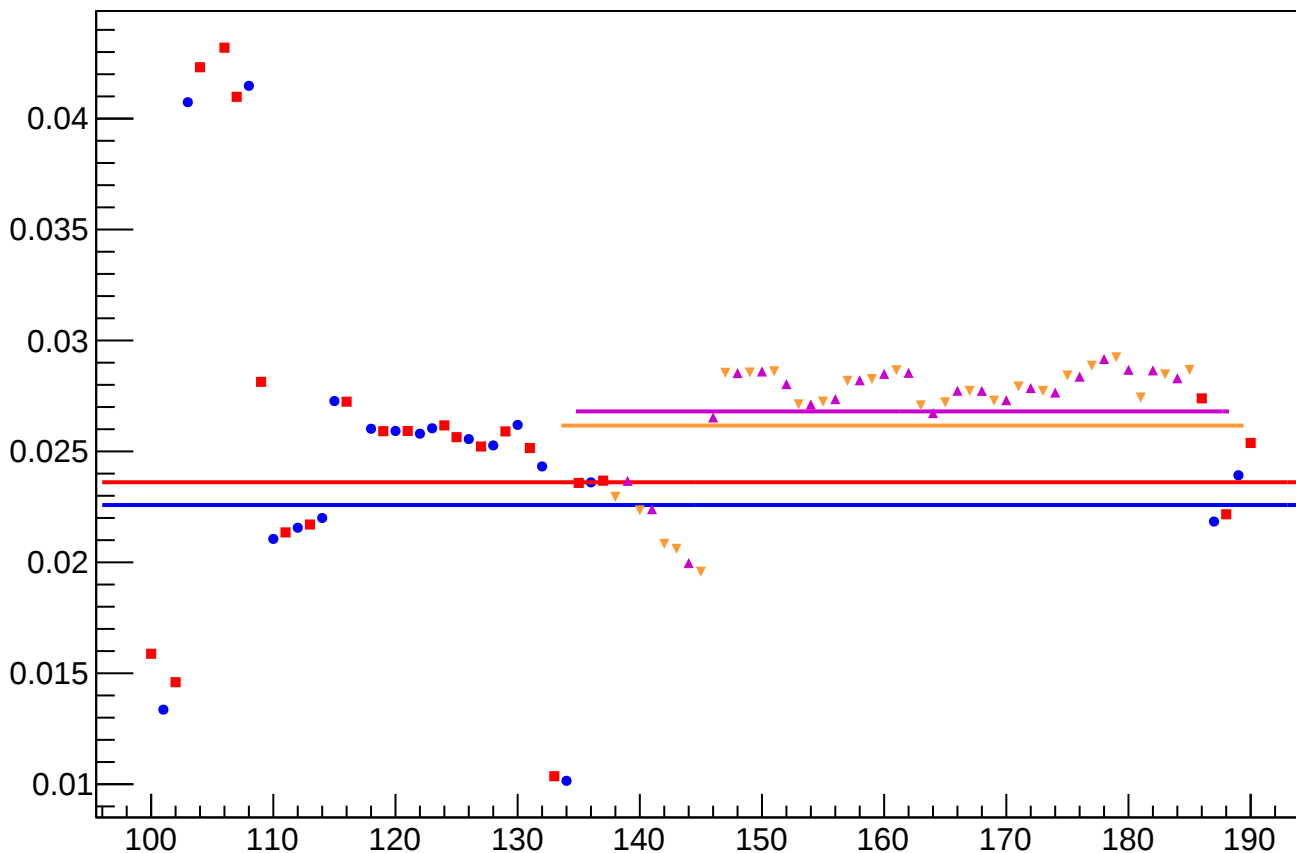
Right: 0.000+/-0.000 χ^2/NDF : 1768721.3/40

In: 0.000+/-0.000 χ^2/NDF :1227452.0/41

Out: 0.000+/-0.000 χ^2/NDF :806835.2/46

All: 0.000+/-0.000 χ^2/NDF : 2061854.6/88

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4242491423.9/18

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.024+/-0.000 χ^2/NDF : 5681817413.8/21

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

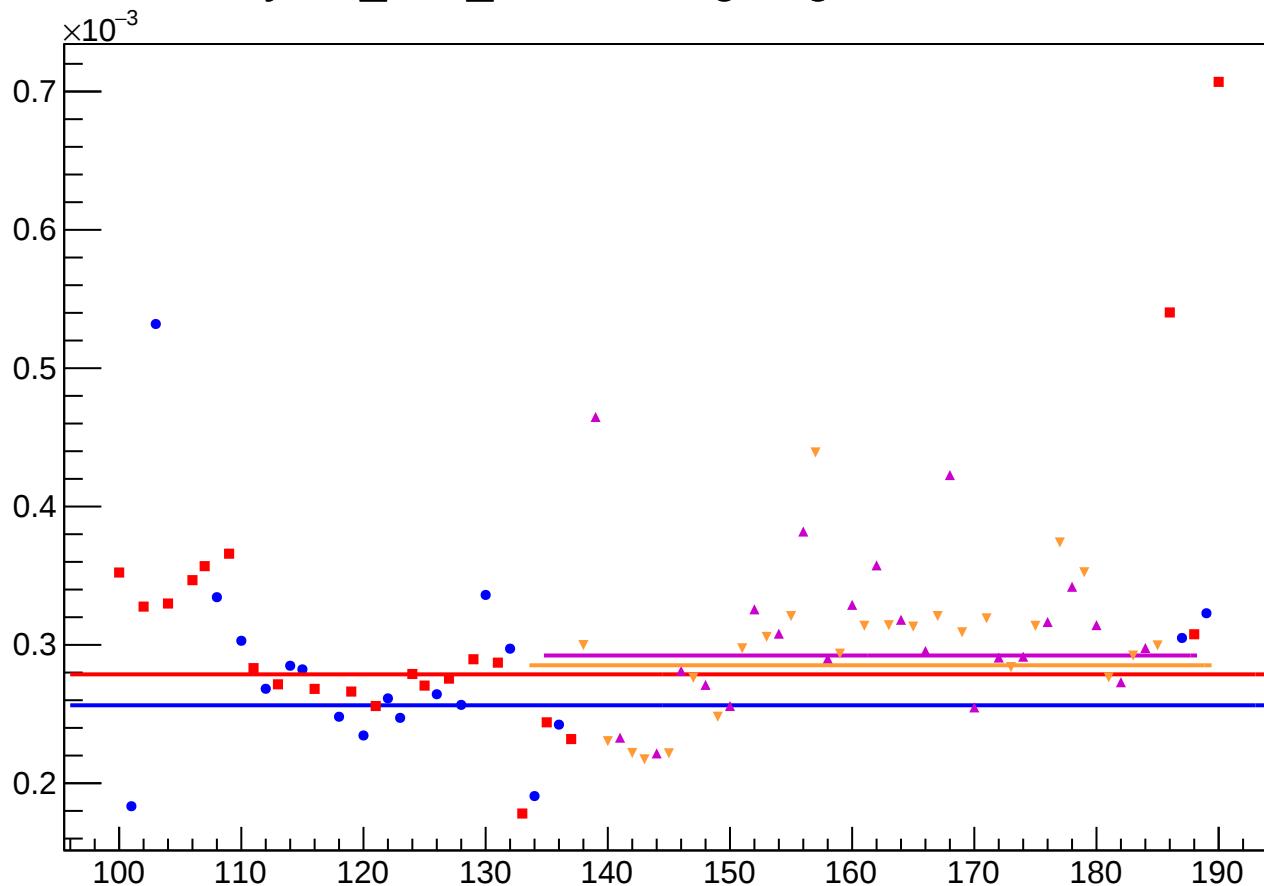
Right: 0.023+/-0.000 χ^2/NDF : 9974297997.9/40

In: 0.025+/-0.000 χ^2/NDF : 6688325418.0/41

Out: 0.025+/-0.000 χ^2/NDF : 8160275671.1/46

All: 0.025+/-0.000 χ^2/NDF : 14848715672.2/8

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 663341.4/18

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 879452.0/21

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

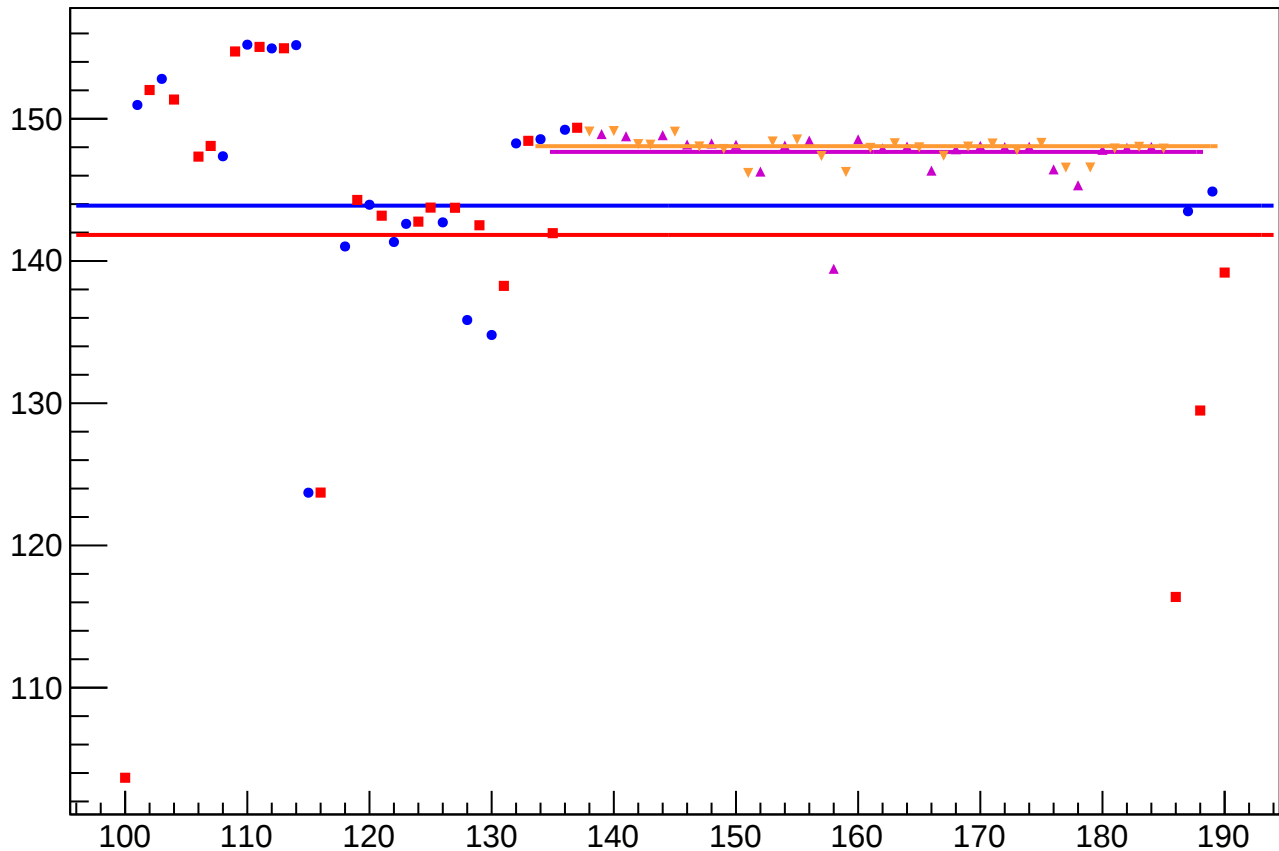
Right: 0.000+/-0.000 χ^2/NDF : 1590239.2/40

In: 0.000+/-0.000 χ^2/NDF :1724261.9/41

Out: 0.000+/-0.000 χ^2/NDF :1698481.0/46

All: 0.000+/-0.000 χ^2/NDF : 3425360.2/88

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.893 $\pm$ 0.000 χ^2 /NDF: 3453719737.5/18

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 141.834 $\pm$ 0.000 χ^2 /NDF: 7213339110.6/21

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

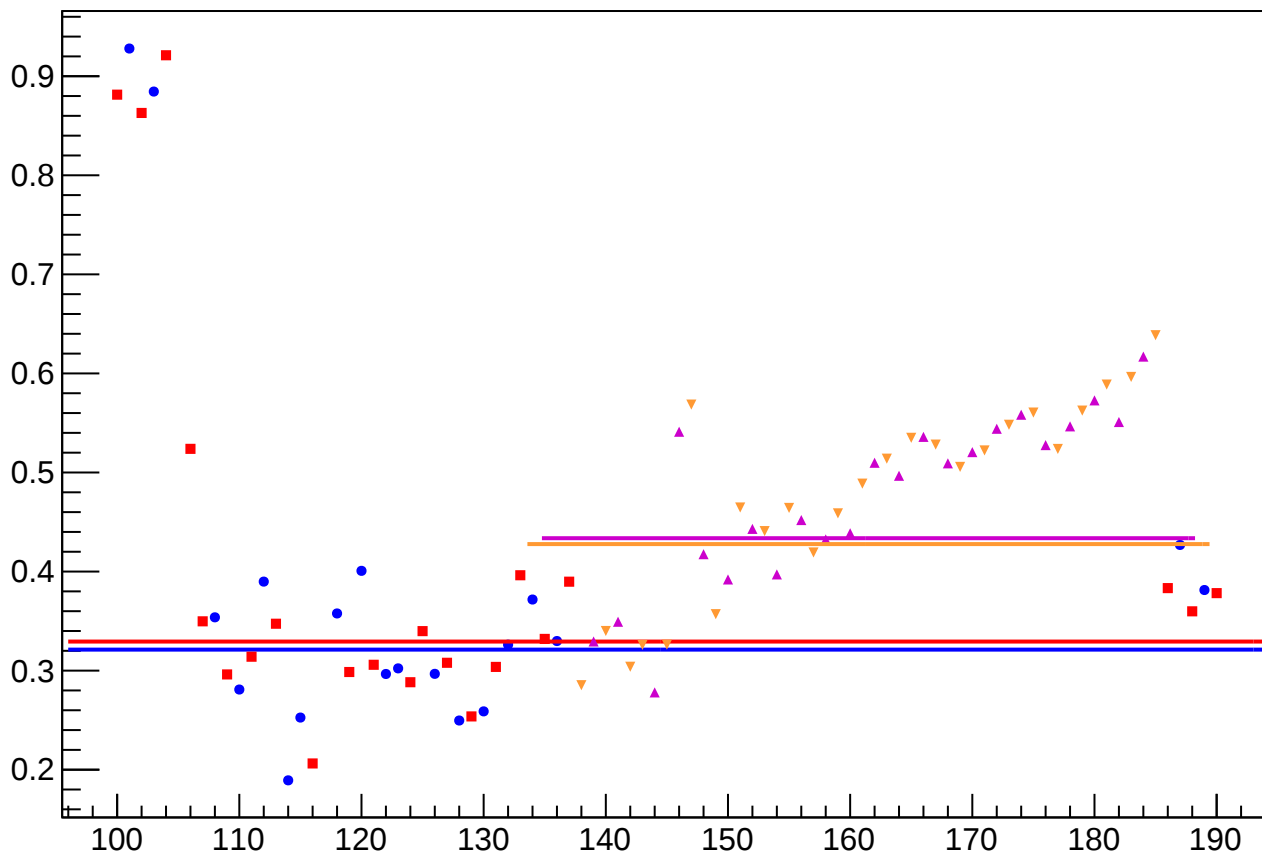
Right: 142.789 $\pm$ 0.000 χ^2 /NDF: 10800411791.2/40

In: 146.143 $\pm$ 0.000 χ^2 /NDF: 4297731553.7/41

Out: 145.438 $\pm$ 0.000 χ^2 /NDF: 8804575125.5/46

All: 145.773 $\pm$ 0.000 χ^2 /NDF: 13140266173.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.321+/-0.000 χ^2/NDF : 1299432.5/18

Left Out: 0.428+/-0.000 χ^2/NDF : 1896808.7/24

Right Out: 0.329+/-0.000 χ^2/NDF : 1261291.6/21

Left In: 0.434+/-0.000 χ^2/NDF : 1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

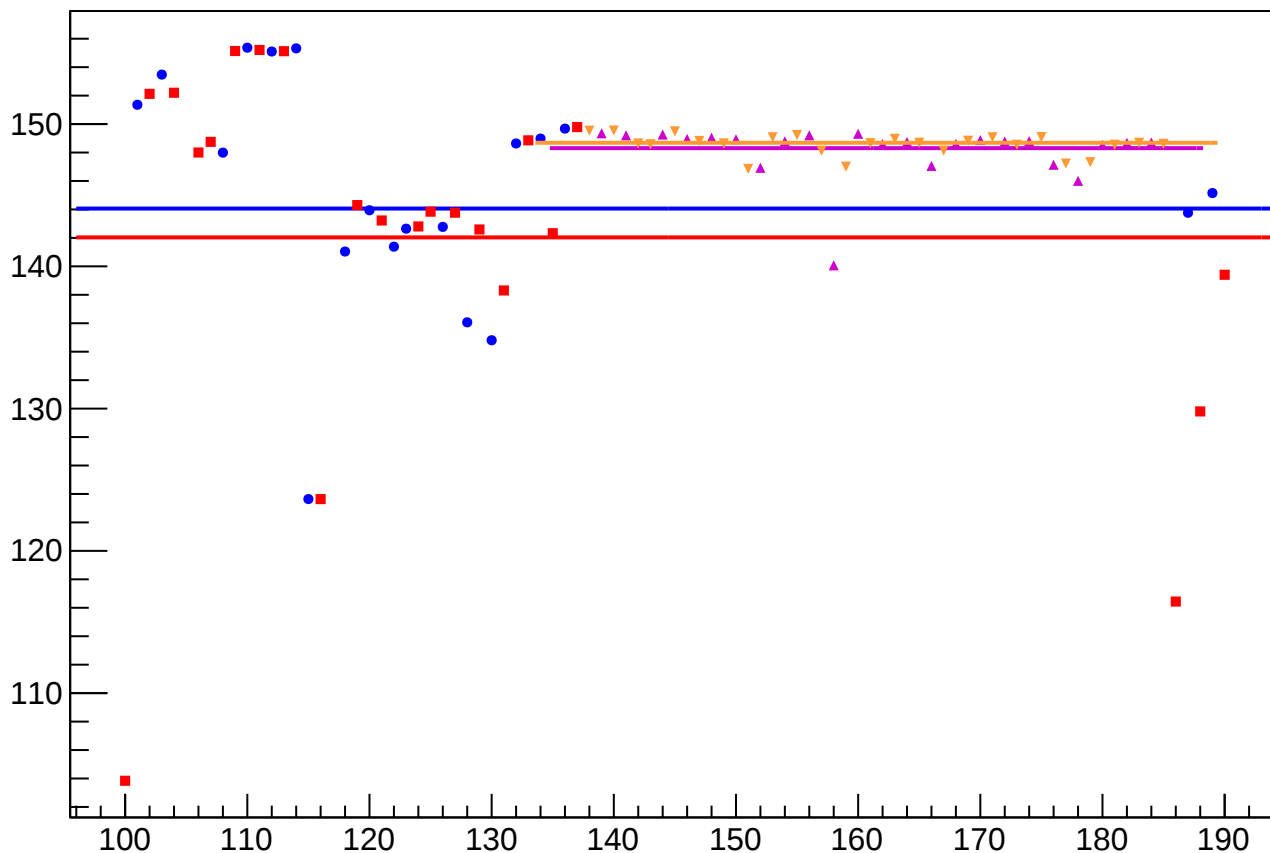
Right: 0.326+/-0.000 χ^2/NDF : 2564887.2/40

In: 0.388+/-0.000 χ^2/NDF : 3679831.2/41

Out: 0.386+/-0.000 χ^2/NDF : 3916878.7/46

All: 0.387+/-0.000 χ^2/NDF : 7597341.8/88

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.062 $\pm$ 0.000 χ^2 /NDF: 3498683002.4/18

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.034 $\pm$ 0.000 χ^2 /NDF: 7156163142.3/21

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

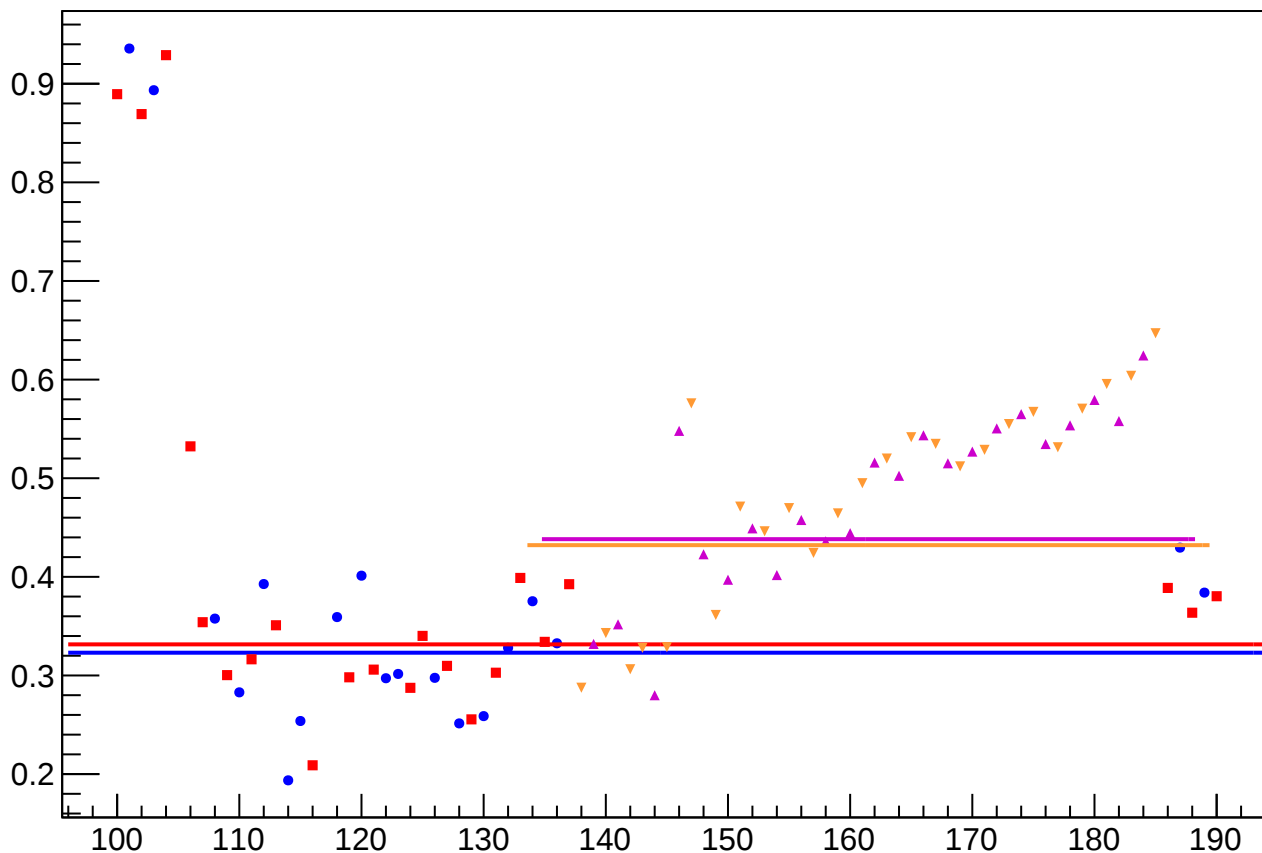
Right: 142.976 $\pm$ 0.000 χ^2 /NDF: 10782601484.2/40

In: 146.581 $\pm$ 0.000 χ^2 /NDF: 4452352888.6/41

Out: 145.864 $\pm$ 0.000 χ^2 /NDF: 8913609611.7/46

All: 146.204 $\pm$ 0.000 χ^2 /NDF: 13404491613.2/92

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1301526.0/18

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.332+/-0.000 χ^2/NDF : 1266264.5/21

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

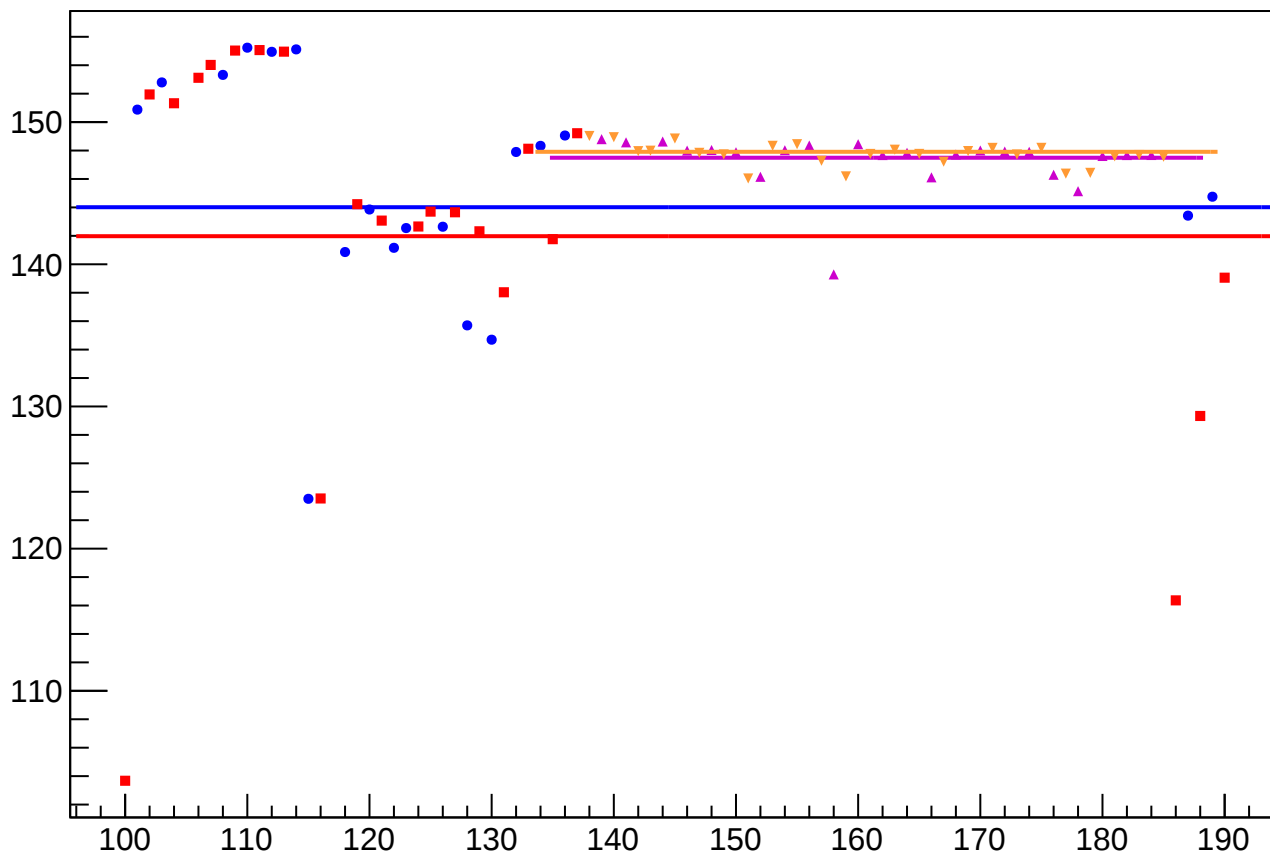
Right: 0.328+/-0.000 χ^2/NDF : 2572232.3/40

In: 0.391+/-0.000 χ^2/NDF :3735578.6/41

Out: 0.389+/-0.000 χ^2/NDF :3975284.8/46

All: 0.390+/-0.000 χ^2/NDF : 7711431.7/88

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.014 $\pm$ 0.000 χ^2 /NDF: 3666262735.8/18

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 141.975 $\pm$ 0.000 χ^2 /NDF: 7610613380.6/21

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

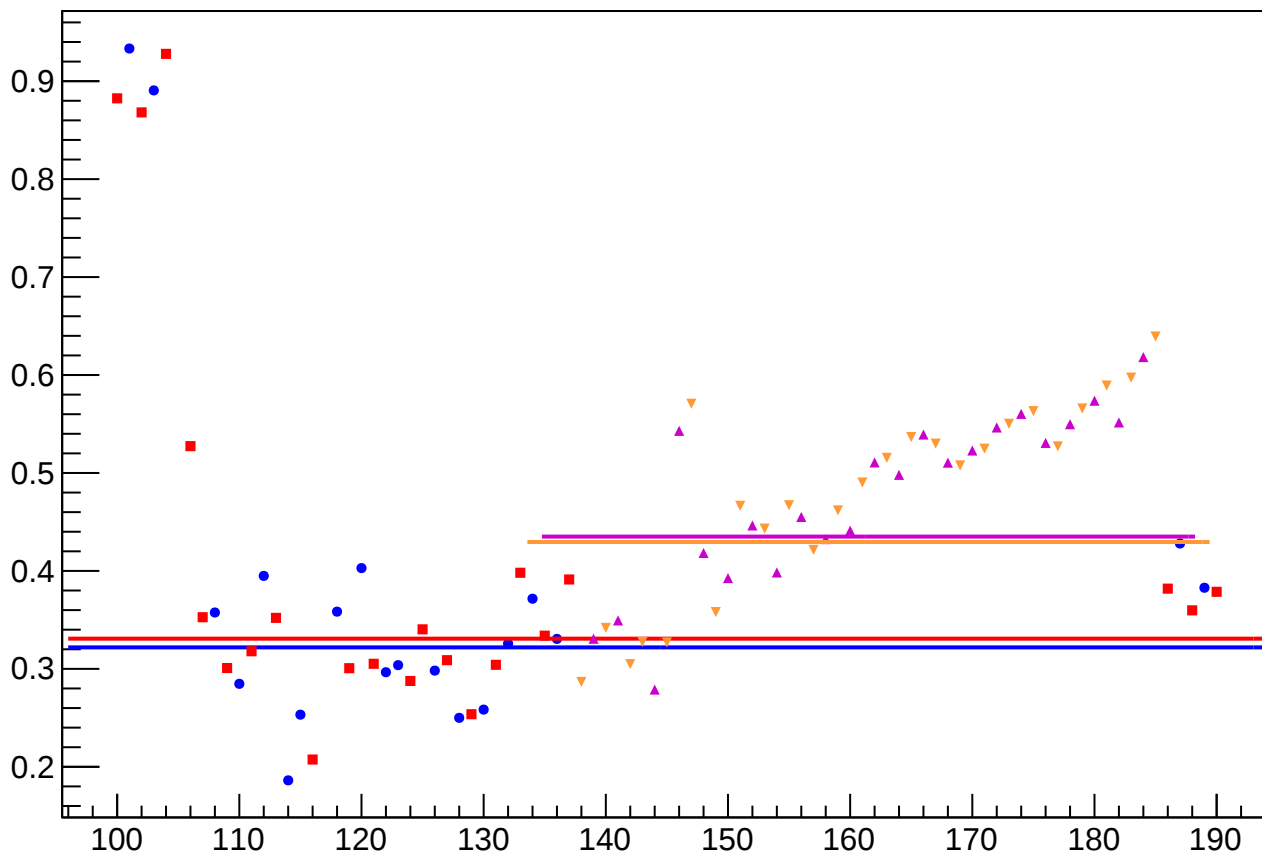
Right: 142.922 $\pm$ 0.000 χ^2 /NDF: 11406622695.1/40

In: 146.086 $\pm$ 0.000 χ^2 /NDF: 4430752985.8/41

Out: 145.405 $\pm$ 0.000 χ^2 /NDF: 9043933926.3/46

All: 145.729 $\pm$ 0.000 χ^2 /NDF: 13509840422.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.322+/-0.000 χ^2/NDF : 1314449.4/18

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.331+/-0.000 χ^2/NDF : 1262267.4/21

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

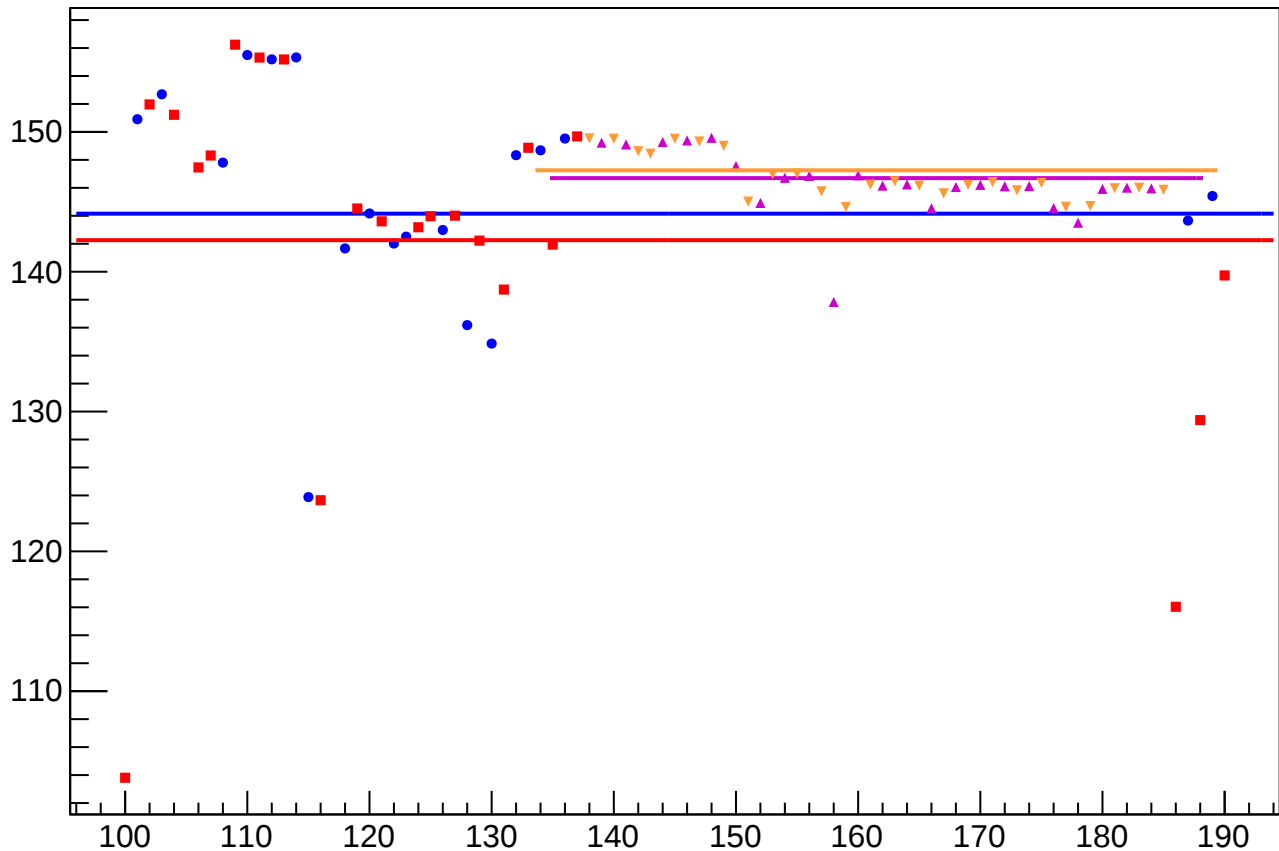
Right: 0.327+/-0.000 χ^2/NDF : 2581687.0/40

In: 0.389+/-0.000 χ^2/NDF :3706169.2/41

Out: 0.388+/-0.000 χ^2/NDF :3914583.6/46

All: 0.389+/-0.000 χ^2/NDF : 7621073.9/88

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.154 $\pm$ 0.000 χ^2 /NDF: 3167418526.7/18

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 142.258 $\pm$ 0.000 χ^2 /NDF: 6912818480.0/21

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

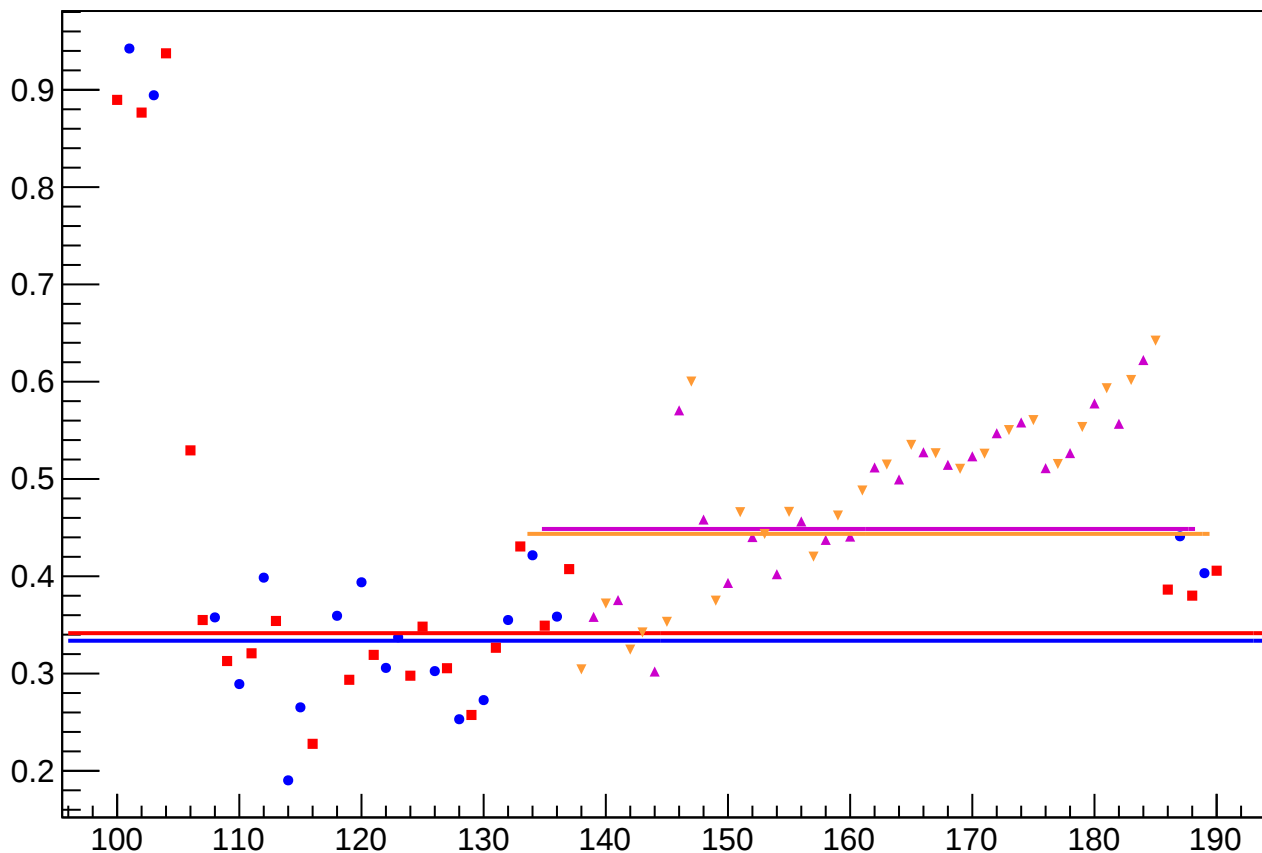
Right: 143.134 $\pm$ 0.000 χ^2 /NDF: 10184838299.3/40

In: 145.683 $\pm$ 0.000 χ^2 /NDF: 3935323084.8/41

Out: 145.159 $\pm$ 0.000 χ^2 /NDF: 8087241219.1/46

All: 145.407 $\pm$ 0.000 χ^2 /NDF: 12042135144.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.334 $\pm$ 0.000 χ^2 /NDF: 1301512.5/18

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.342 $\pm$ 0.000 χ^2 /NDF: 1233386.0/21

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

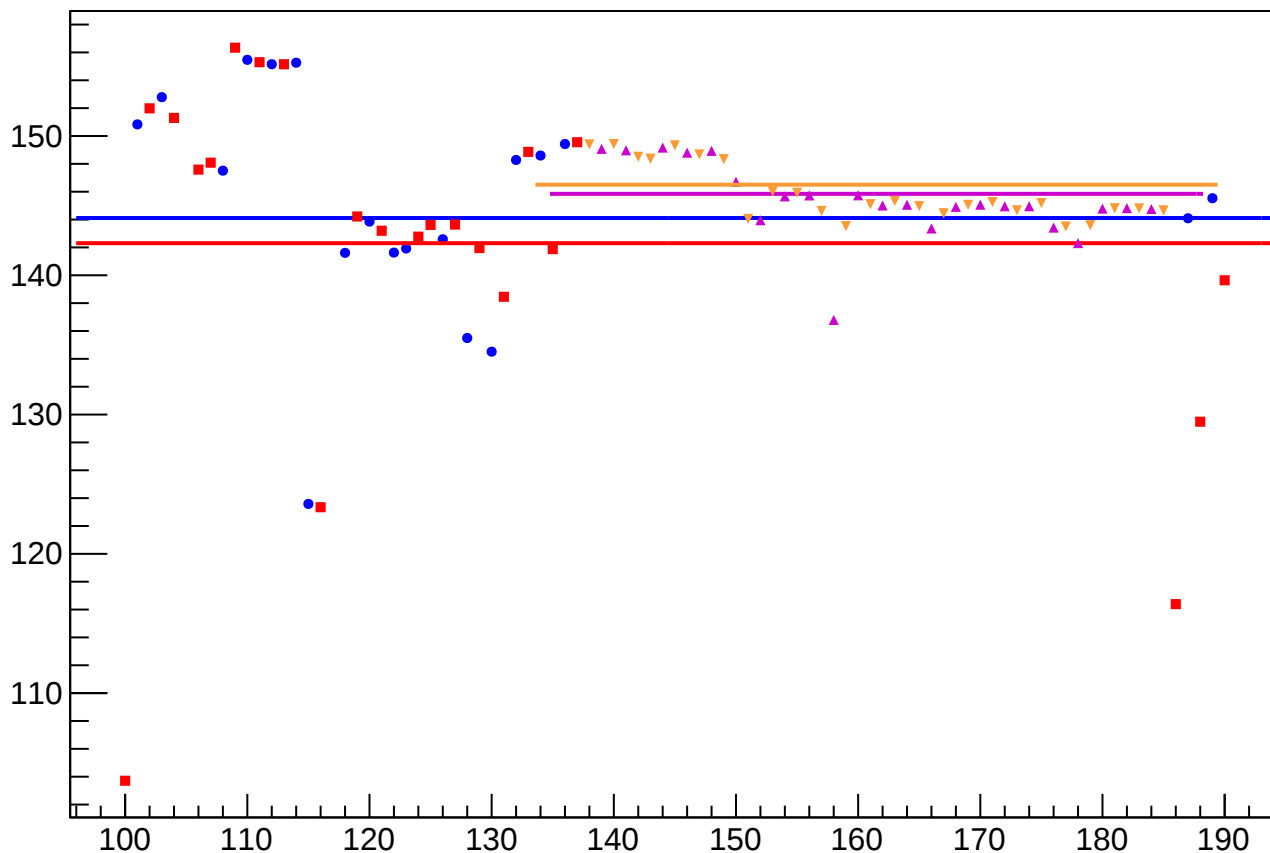
Right: 0.338 $\pm$ 0.000 χ^2 /NDF: 2538412.5/40

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3292771.2/41

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3478087.7/46

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6771476.6/88

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.111 $\pm$ 0.000 χ^2 /NDF: 3287746289.7/18

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 142.305 $\pm$ 0.000 χ^2 /NDF: 6895511306.0/21

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

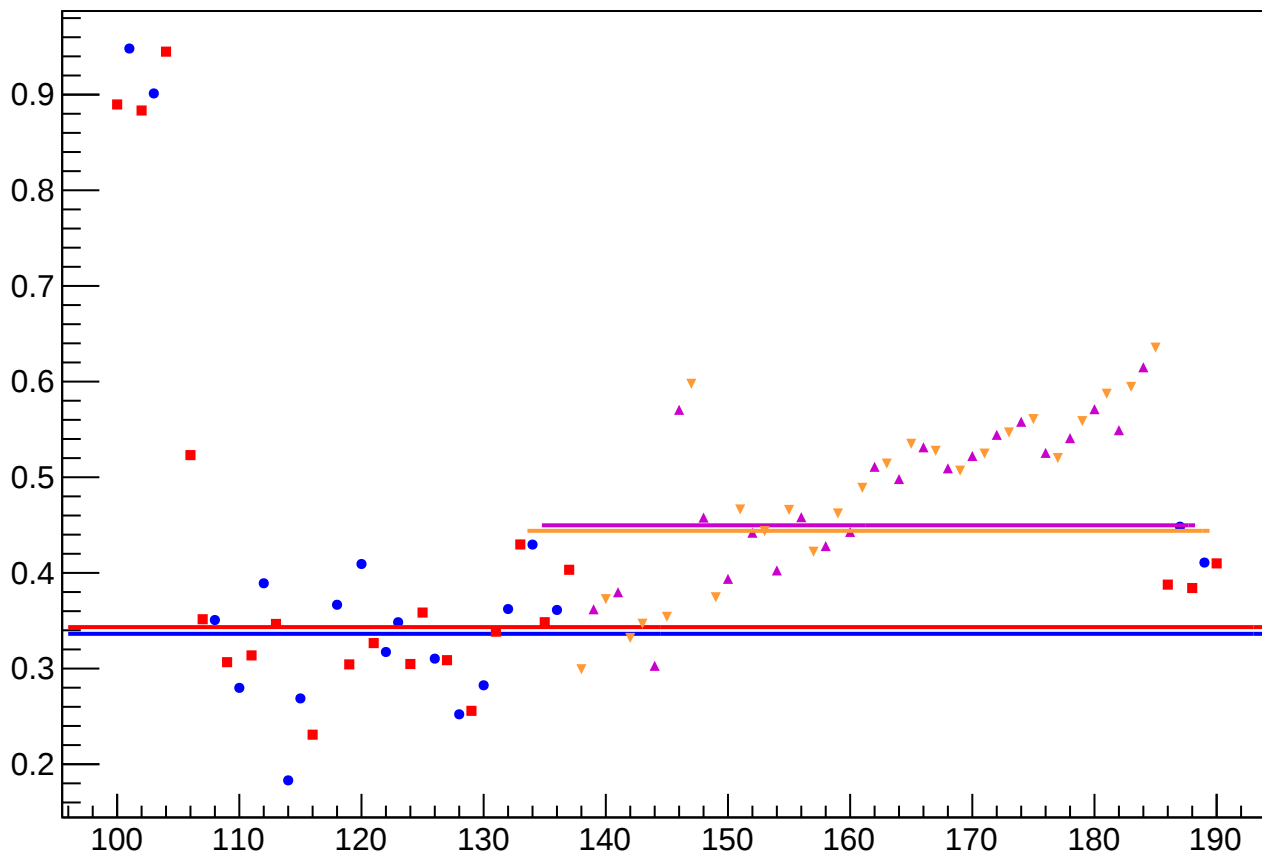
Right: 143.136 $\pm$ 0.000 χ^2 /NDF: 10276603860.0/40

In: 145.161 $\pm$ 0.000 χ^2 /NDF: 4079127999.4/41

Out: 144.754 $\pm$ 0.000 χ^2 /NDF: 7936390984.7/46

All: 144.947 $\pm$ 0.000 χ^2 /NDF: 12027233239.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.336 $\pm$ 0.000 χ^2 /NDF: 1320914.7/18

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.343 $\pm$ 0.000 χ^2 /NDF: 1224605.5/21

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

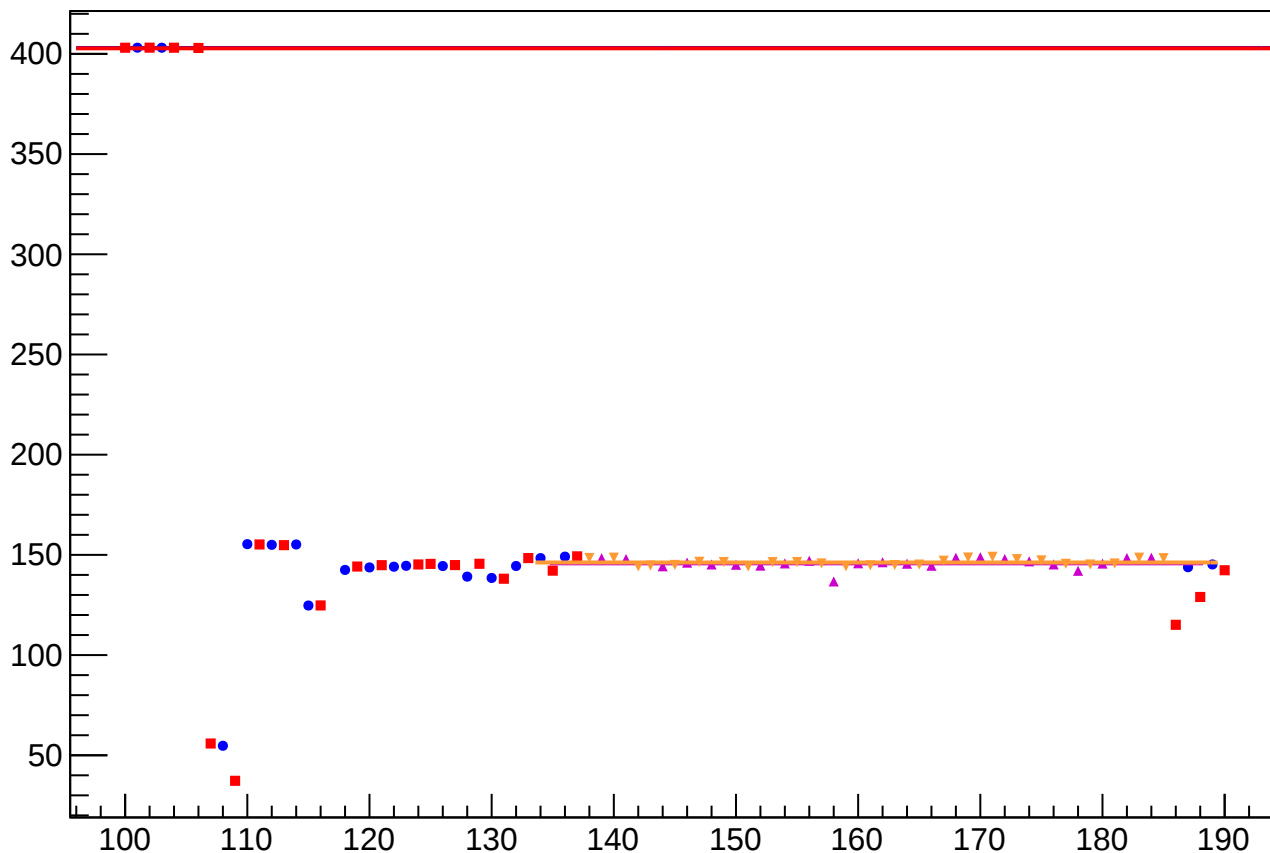
Right: 0.340 $\pm$ 0.000 χ^2 /NDF: 2548349.6/40

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3252000.6/41

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:3422139.2/46

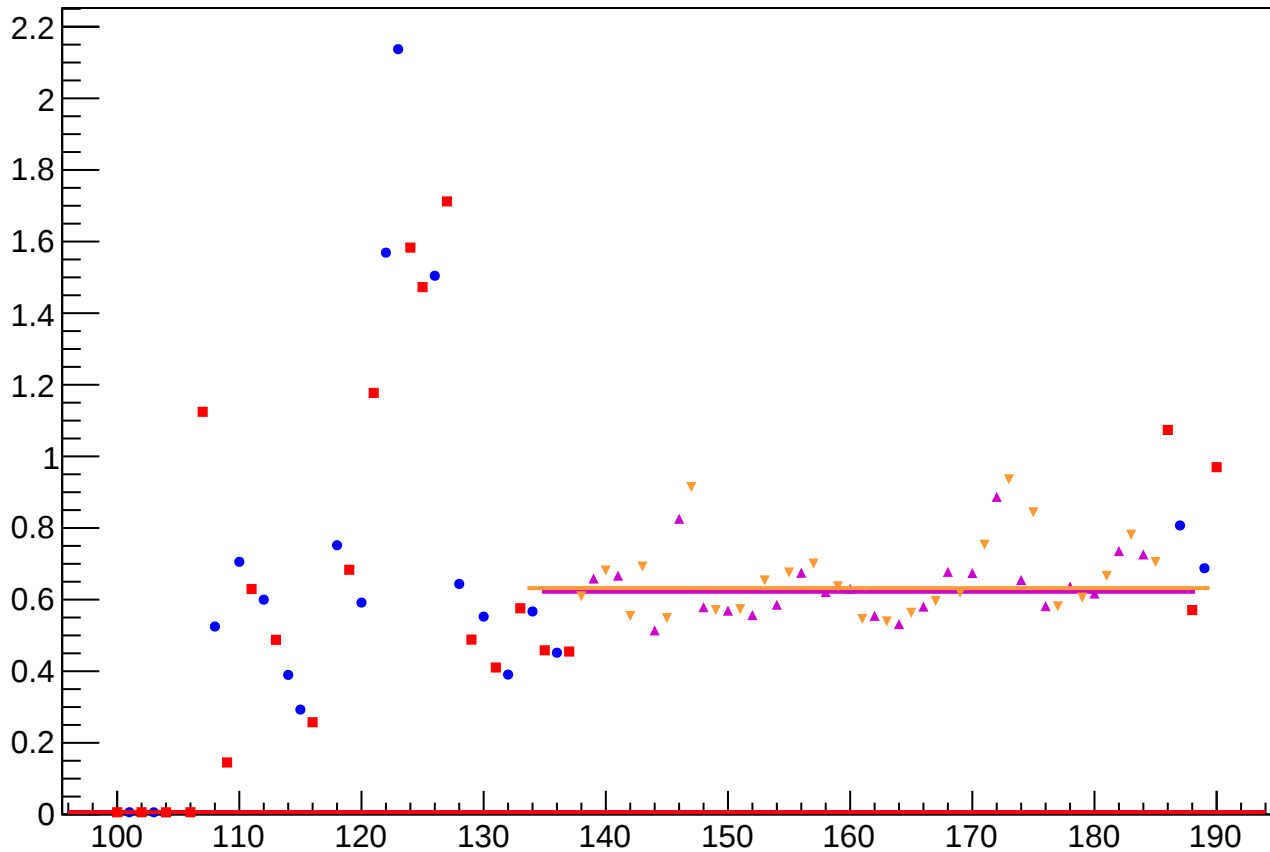
All: 0.403 $\pm$ 0.000 χ^2 /NDF: 6675334.3/88

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.950+/-0.000 χ^2/NDF : 1150923173641.2/18
 Left Out: 146.205+/-0.000 χ^2/NDF : 86658381.3/24
 Right Out: 402.777+/-0.000 χ^2/NDF : 3316457742831.7/21
 Left In: 145.773+/-0.000 χ^2/NDF : 207332354.9/22
 Left: 145.990+/-0.000 χ^2/NDF : 297342055.1/47
 Right: 402.858+/-0.000 χ^2/NDF : 4467881325622.0/47
 In: 402.657+/-0.000 χ^2/NDF : 3500827078883.7/47
 Out: 402.515+/-0.000 χ^2/NDF : 5685429988351.0/47
 All: 402.582+/-0.000 χ^2/NDF : 918659310730.0/47

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9884912.2/18

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 11734353.1/21

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

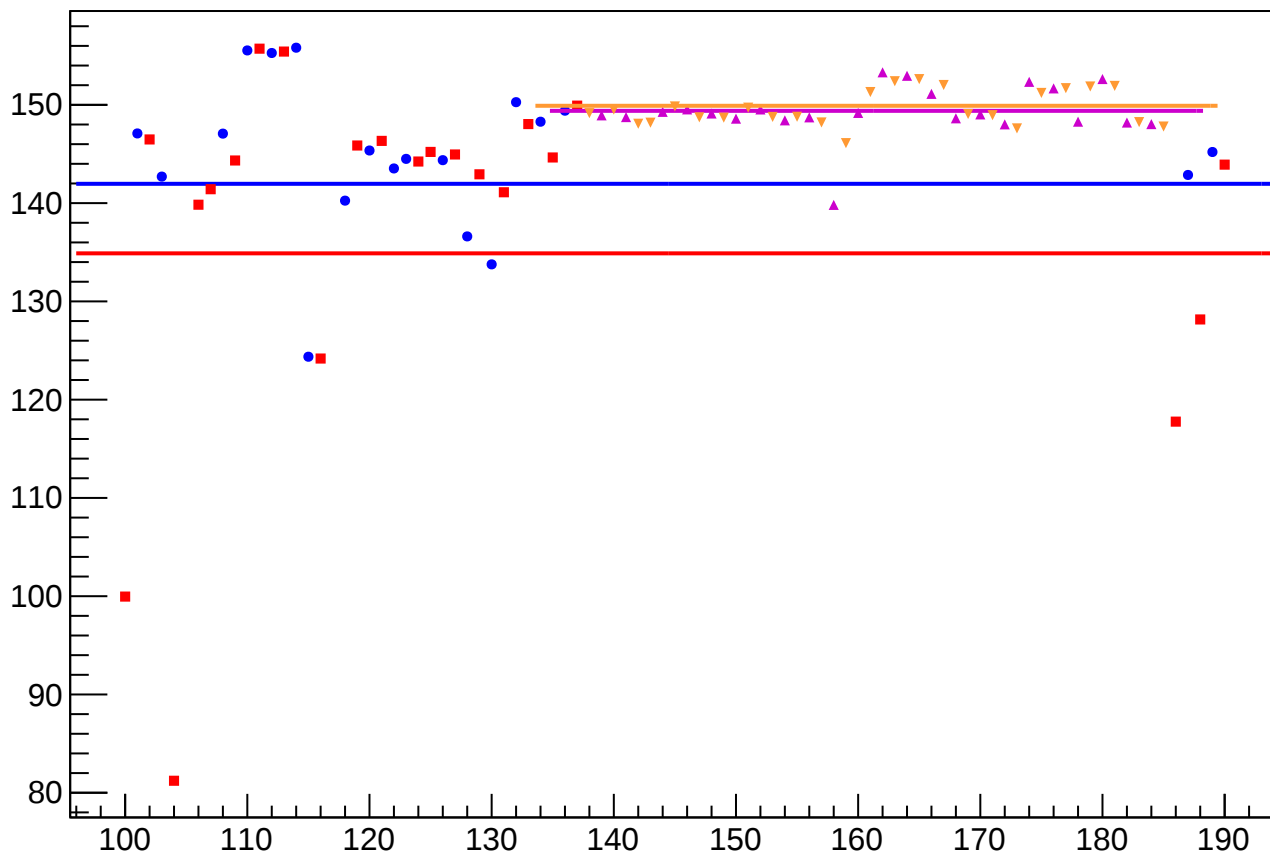
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 21619283.0/40

In: 0.007 $\pm$ 0.000 χ^2 /NDF:37213904.2/41

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:40528058.3/46

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 77742016.5/88

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.965 ± 0.000 $\chi^2/\text{NDF}: 988976903.3/18$

Left Out: 149.906 ± 0.000 $\chi^2/\text{NDF}: 163261802.4/24$

Right Out: 134.889 ± 0.000 $\chi^2/\text{NDF}: 1774426990.2/21$

Left In: 149.391 ± 0.000 $\chi^2/\text{NDF}: 437129920.4/22$

Left: 149.657 ± 0.000 $\chi^2/\text{NDF}: 606930259.3/47$

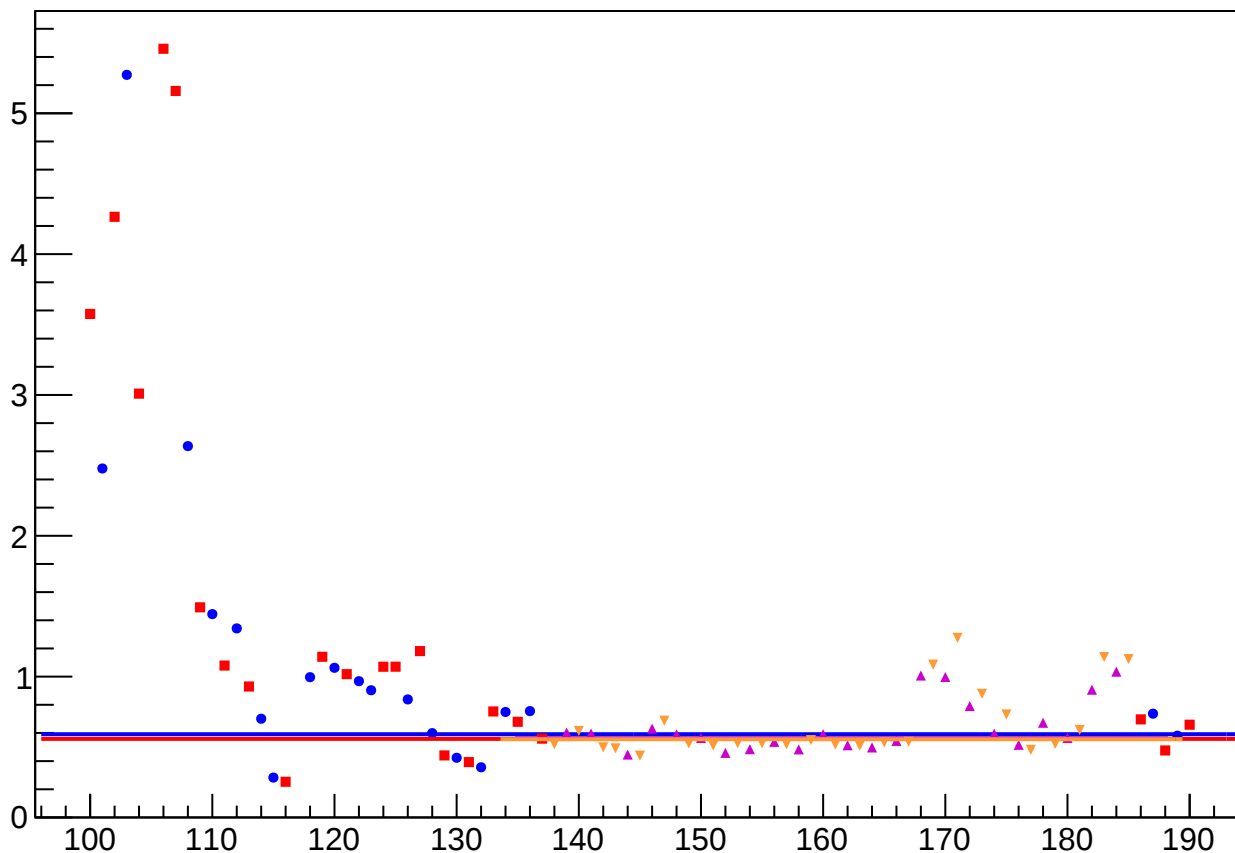
Right: 137.933 ± 0.000 $\chi^2/\text{NDF}: 3086438379.2/40$

In: 147.964 ± 0.000 $\chi^2/\text{NDF}: 1930355443.4/41$

Out: 146.489 ± 0.000 $\chi^2/\text{NDF}: 4550419064.8/46$

All: 147.185 ± 0.000 $\chi^2/\text{NDF}: 6548413685.8$

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.591+/-0.000 χ^2/NDF : 3482673.6/18

Left Out: 0.555+/-0.000 χ^2/NDF :1773380.1/24

Right Out: 0.558+/-0.000 χ^2/NDF : 4729939.3/21

Left In: 0.562+/-0.000 χ^2/NDF :1311075.2/22

Left: 0.559+/-0.000 χ^2/NDF : 3086646.6/47

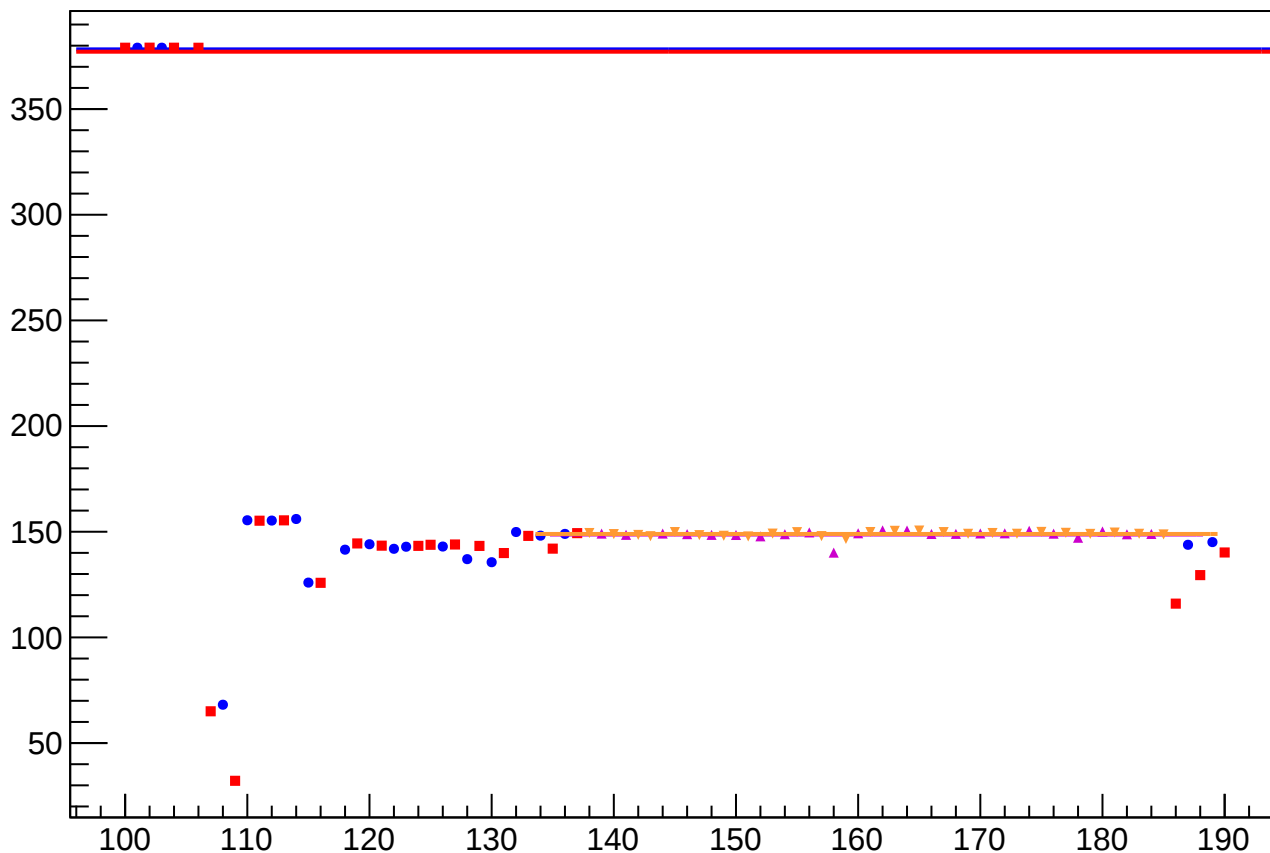
Right: 0.572+/-0.000 χ^2/NDF : 8226796.9/40

In: 0.568+/-0.000 χ^2/NDF :4809087.9/41

Out: 0.556+/-0.000 χ^2/NDF :6503461.5/46

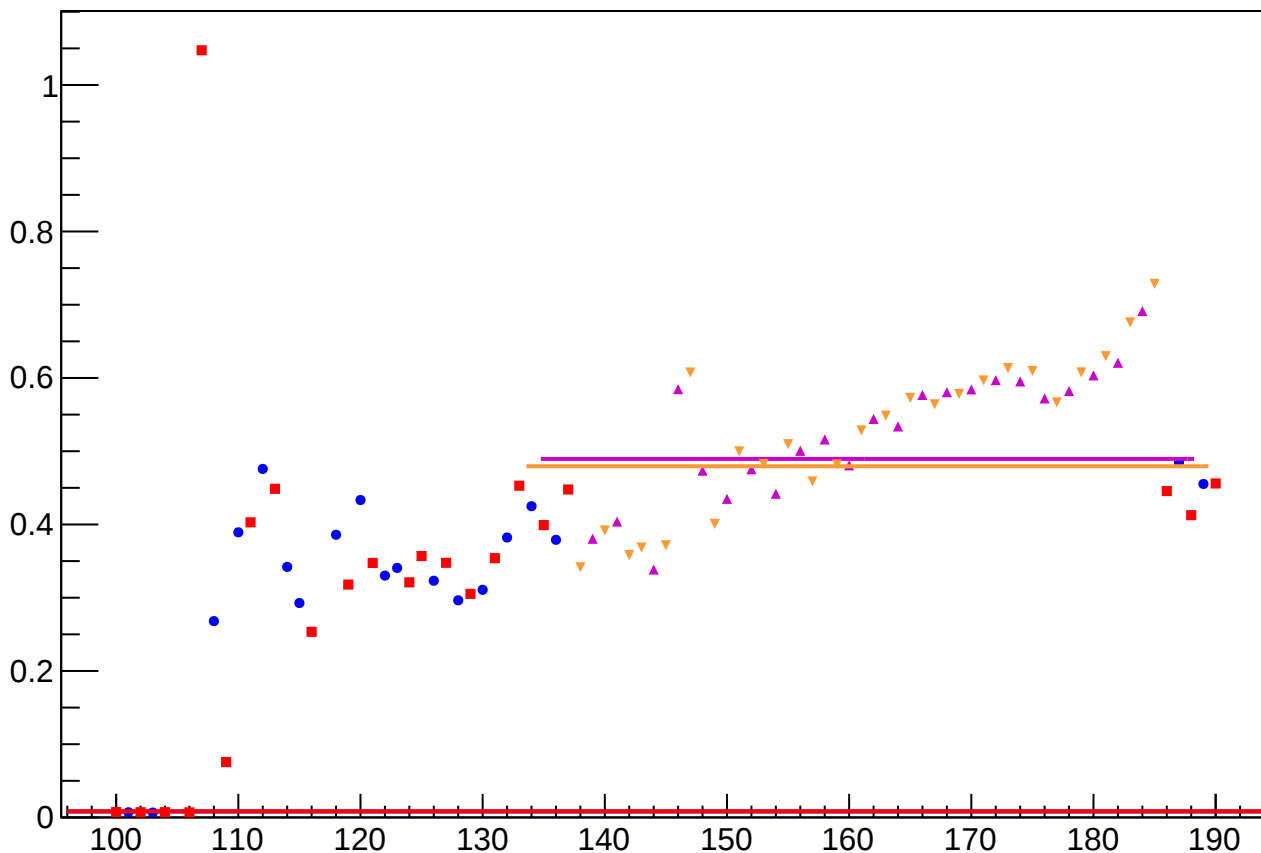
All: 0.561+/-0.000 χ^2/NDF : 11321029.9/88

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.246+/-0.000	χ^2/NDF : 2622470003955.9/18	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.663+/-0.000	χ^2/NDF : 11431855910570.9
Right Out: 377.151+/-0.000	χ^2/NDF : 8800885064336.4/21	In: 377.064+/-0.000	χ^2/NDF : 6235458550943.4/47
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 376.032+/-0.000	χ^2/NDF : 12680355497565.0
		All: 376.514+/-0.000	χ^2/NDF : 18923408694.3

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 10798817.2/18

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 12428424.8/21

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

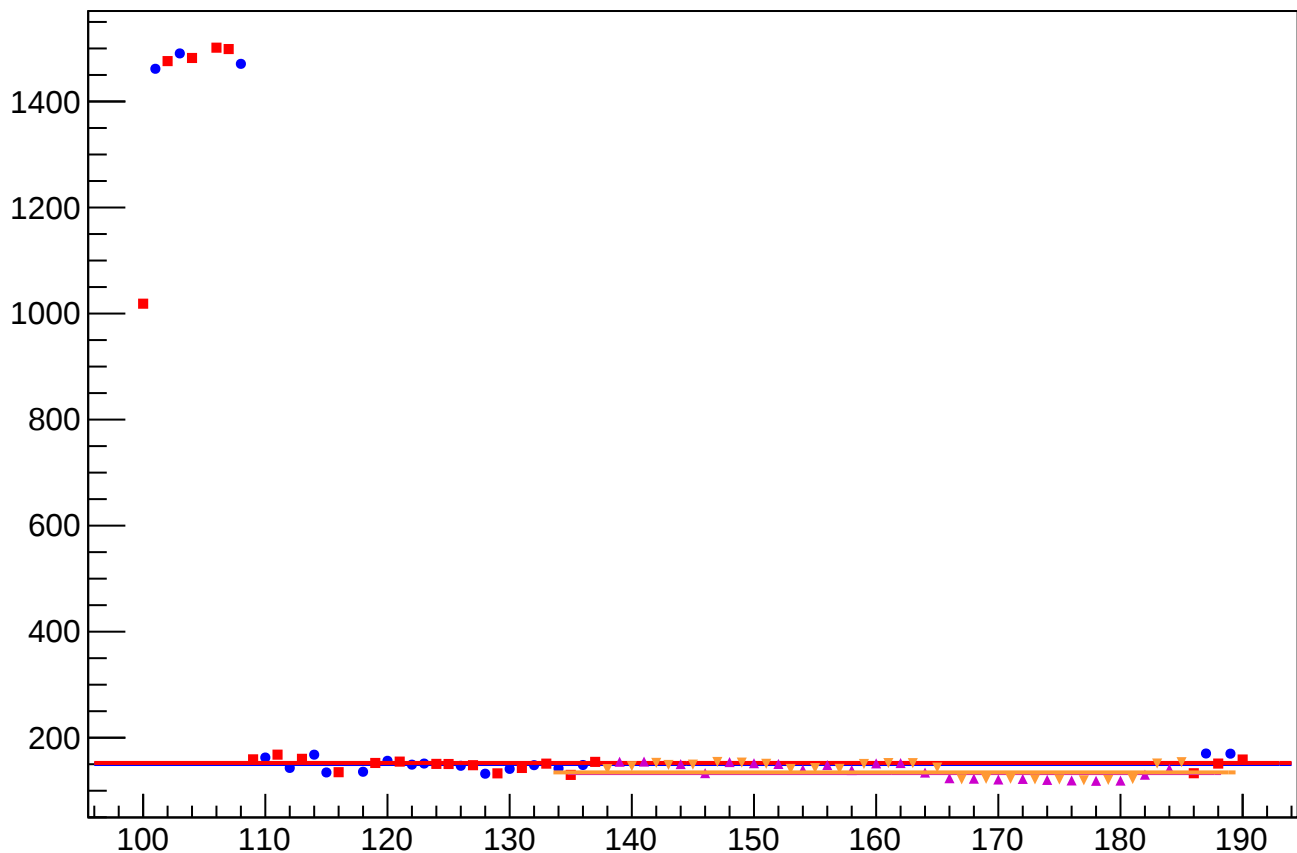
Right: 0.008+/-0.000 χ^2/NDF : 23227674.0/40

In: 0.011+/-0.000 χ^2/NDF :43652691.4/41

Out: 0.011+/-0.000 χ^2/NDF :47014747.7/46

All: 0.011+/-0.000 χ^2/NDF : 90667439.8/88

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 150.387+/-0.000 χ^2/NDF : 24782910683.2/18

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 152.428+/-0.000 χ^2/NDF : 33991745835.6/21

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

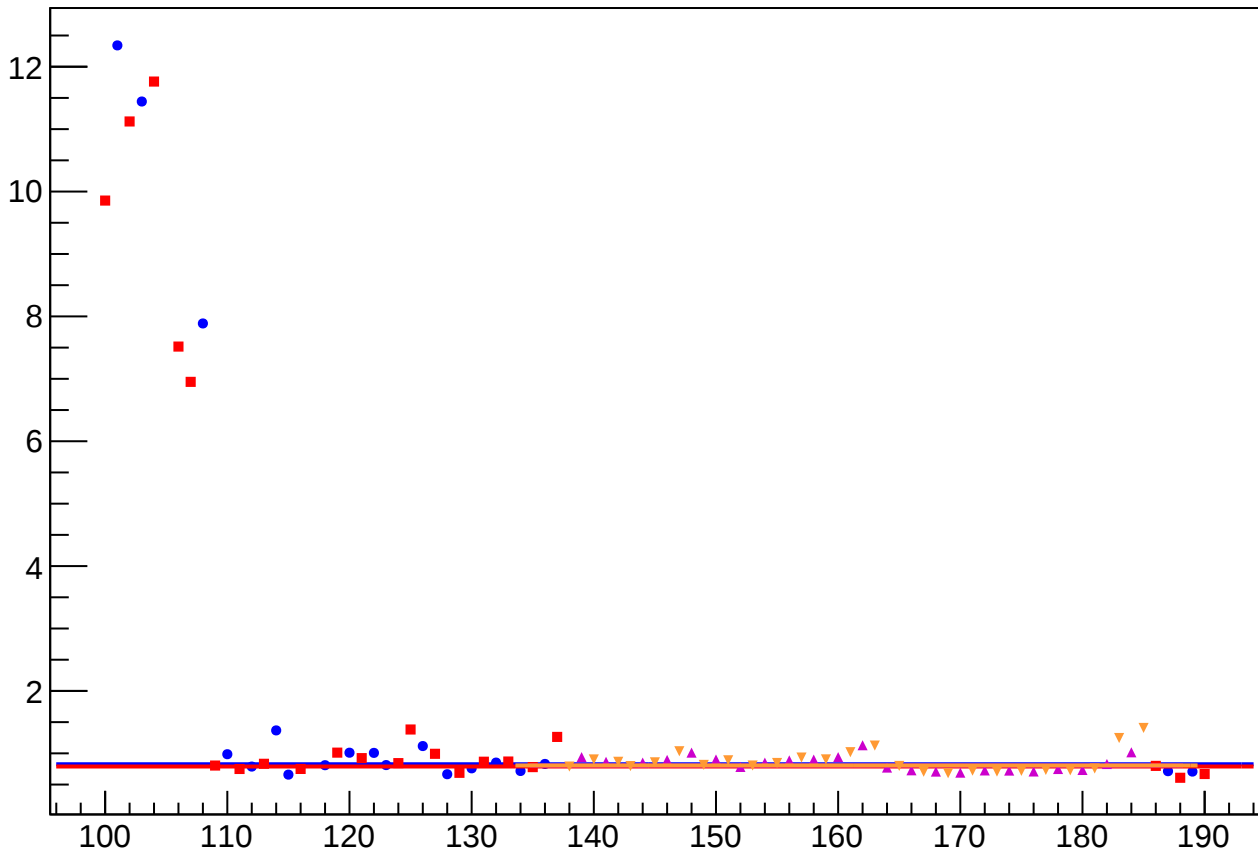
Right: 151.568+/-0.000 χ^2/NDF : 58789627123.3/40

In: 136.944+/-0.000 χ^2/NDF : 30560464563.9/41

Out: 139.304+/-0.000 χ^2/NDF : 40377957933.0/46

All: 138.184+/-0.000 χ^2/NDF : 71023677235.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.825 $\pm$ 0.000 χ^2 /NDF: 2698224.9/18

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.789 $\pm$ 0.000 χ^2 /NDF: 3066206.7/21

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

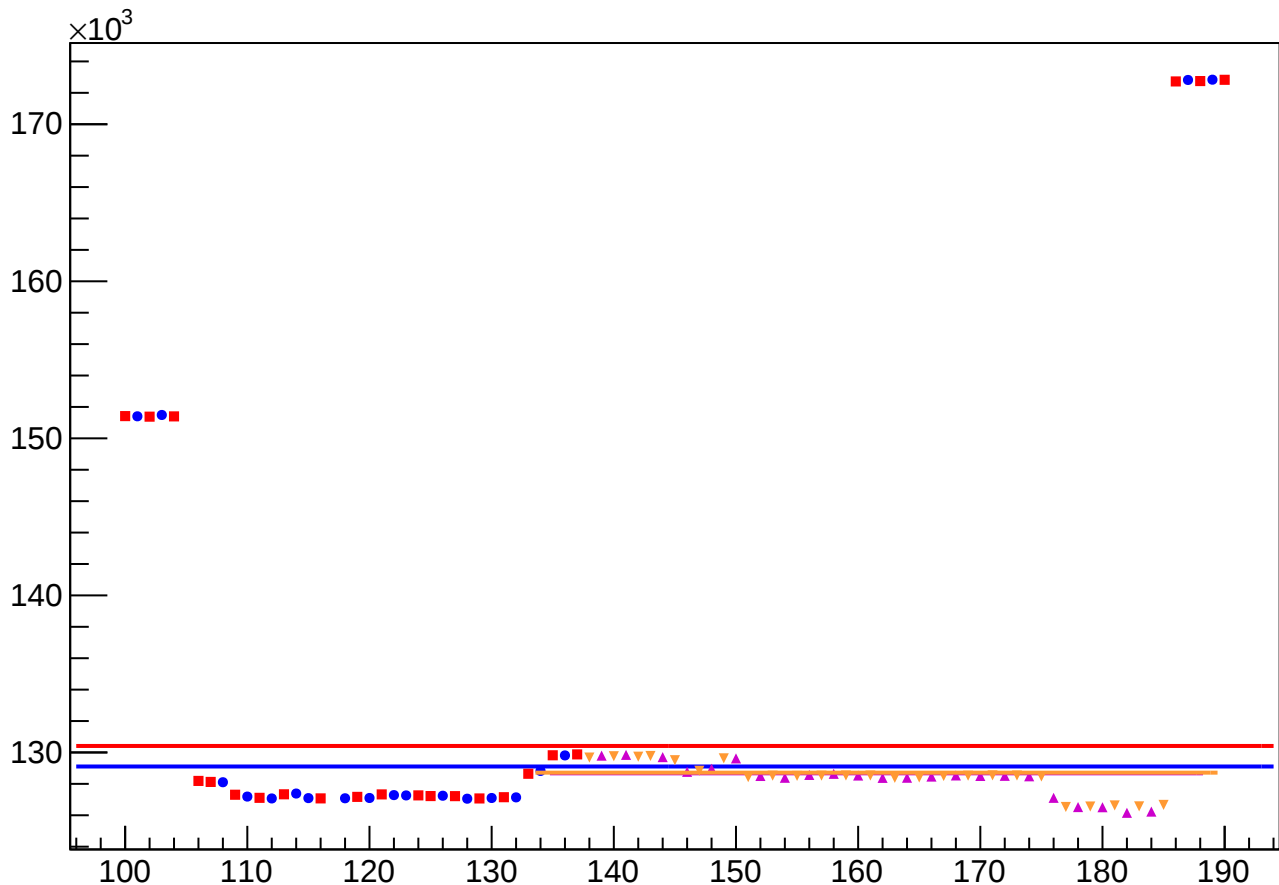
Right: 0.804 $\pm$ 0.000 χ^2 /NDF: 5773823.7/40

In: 0.809 $\pm$ 0.000 χ^2 /NDF:3182177.2/41

Out: 0.802 $\pm$ 0.000 χ^2 /NDF:3774187.6/46

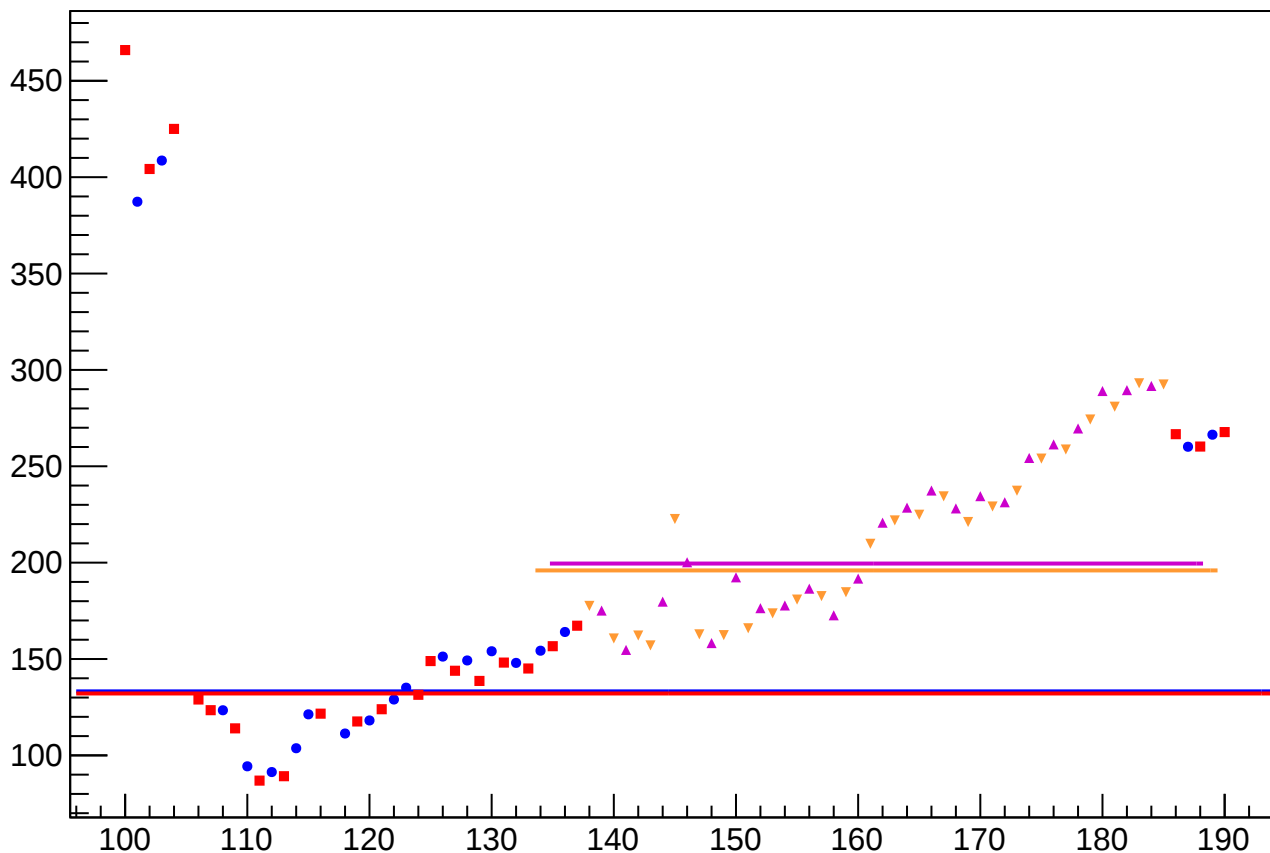
All: 0.805 $\pm$ 0.000 χ^2 /NDF: 6957829.2/88

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 129105.693 $\pm$ 0.054 χ^2 /NDF: 20521182336.8/18
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 130413.184 $\pm$ 0.049 χ^2 /NDF: 47661168919.6/21
 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: 129822.839 $\pm$ 0.036 χ^2 /NDF: 68504260431.5/100
 In: 128866.183 $\pm$ 0.036 χ^2 /NDF: 20891875645.7/47
 Out: 129522.358 $\pm$ 0.034 χ^2 /NDF: 48640820783.4/100
 All: 129217.065 $\pm$ 0.025 χ^2 /NDF: 697082883.0/100

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.203+/-0.038 χ^2/NDF : 1777332.4/18

Left Out: 195.964+/-0.033 χ^2/NDF : 1316091.7/24

Right Out: 132.117+/-0.035 χ^2/NDF : 2368457.6/21

Left In: 199.531+/-0.035 χ^2/NDF : 1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

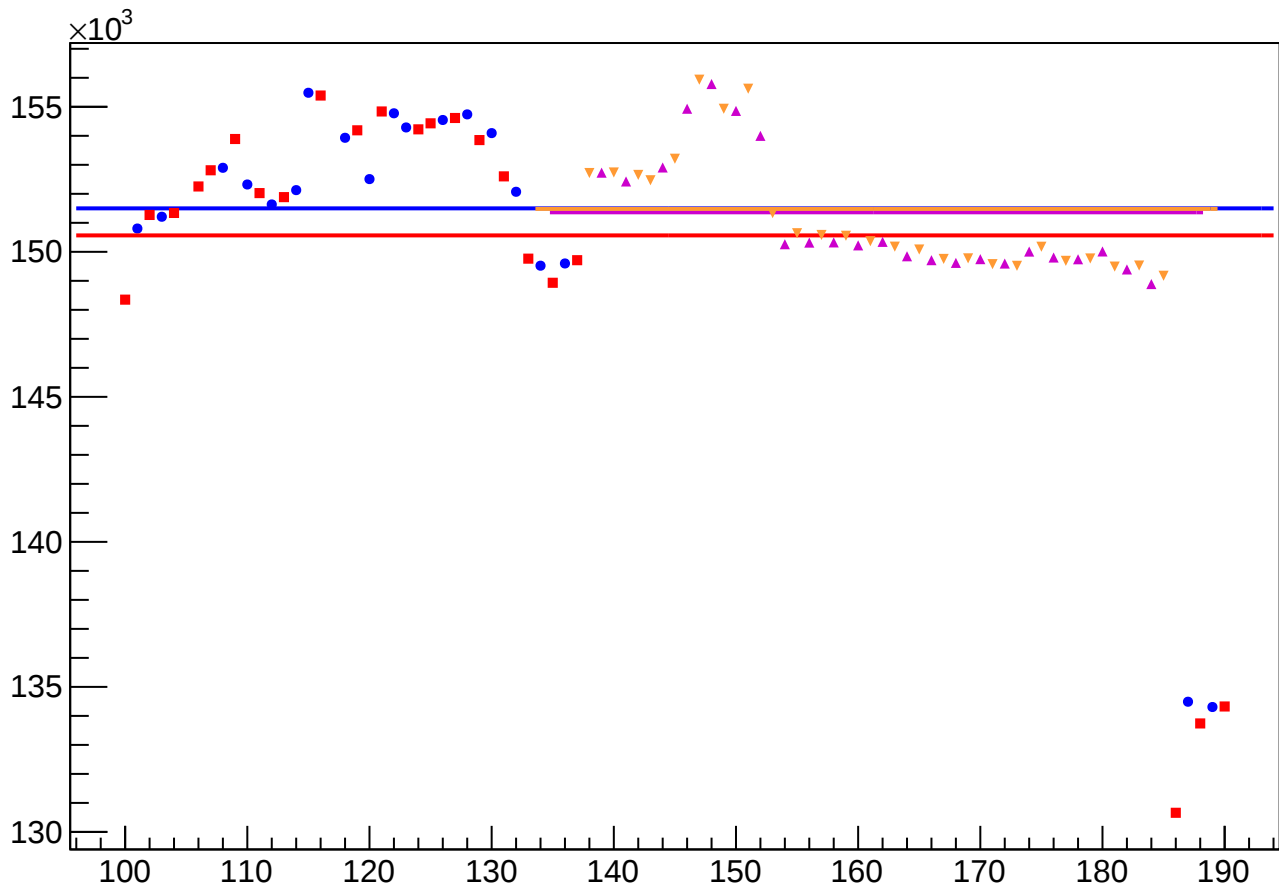
Right: 132.607+/-0.026 χ^2/NDF : 4146233.7/40

In: 169.673+/-0.026 χ^2/NDF : 4613621.4/41

Out: 165.586+/-0.024 χ^2/NDF : 5466908.7/46

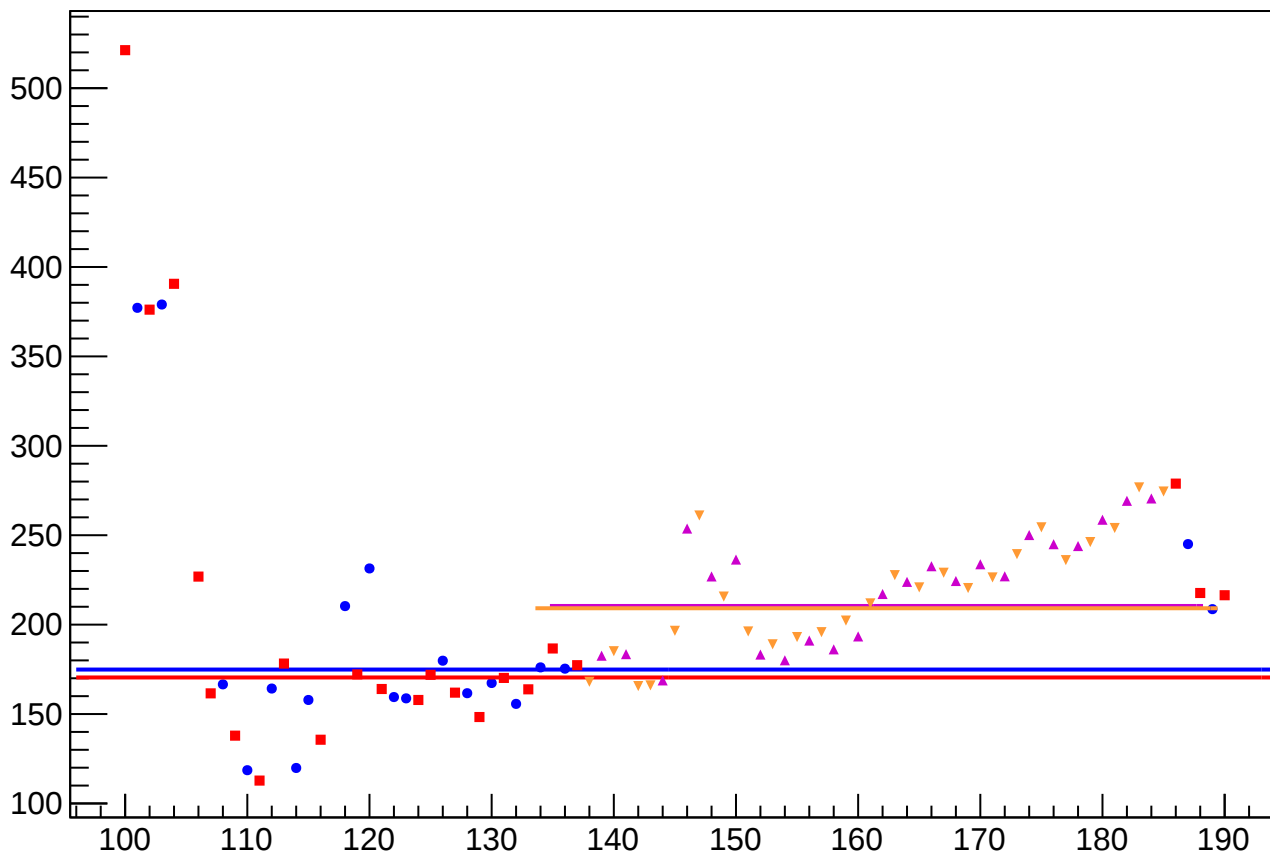
All: 167.487+/-0.017 χ^2/NDF : 10094155.1/88

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 151498.609 $\pm$ 0.070 χ^2 /NDF: 4474378786.9/18
 Left Out: 151480.339 $\pm$ 0.049 χ^2 /NDF: 1483692735.3/24
 Right Out: 150566.423 $\pm$ 0.062 χ^2 /NDF: 11007931772.1/21
 Left In: 151362.440 $\pm$ 0.051 χ^2 /NDF: 1426782789.9/22
 Left: 151423.440 $\pm$ 0.036 χ^2 /NDF: 2913216467.1/14
 Right: 150976.551 $\pm$ 0.047 χ^2 /NDF: 15581198088.6/14
 In: 151409.793 $\pm$ 0.041 χ^2 /NDF: 5903619046.6/41
 Out: 151126.061 $\pm$ 0.039 χ^2 /NDF: 12623916410.2/14
 All: 151258.528 $\pm$ 0.028 χ^2 /NDF: 185526137.1/14

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 174.881+/-0.050 χ^2/NDF : 974519.3/18

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 170.454+/-0.044 χ^2/NDF : 1285477.3/21

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

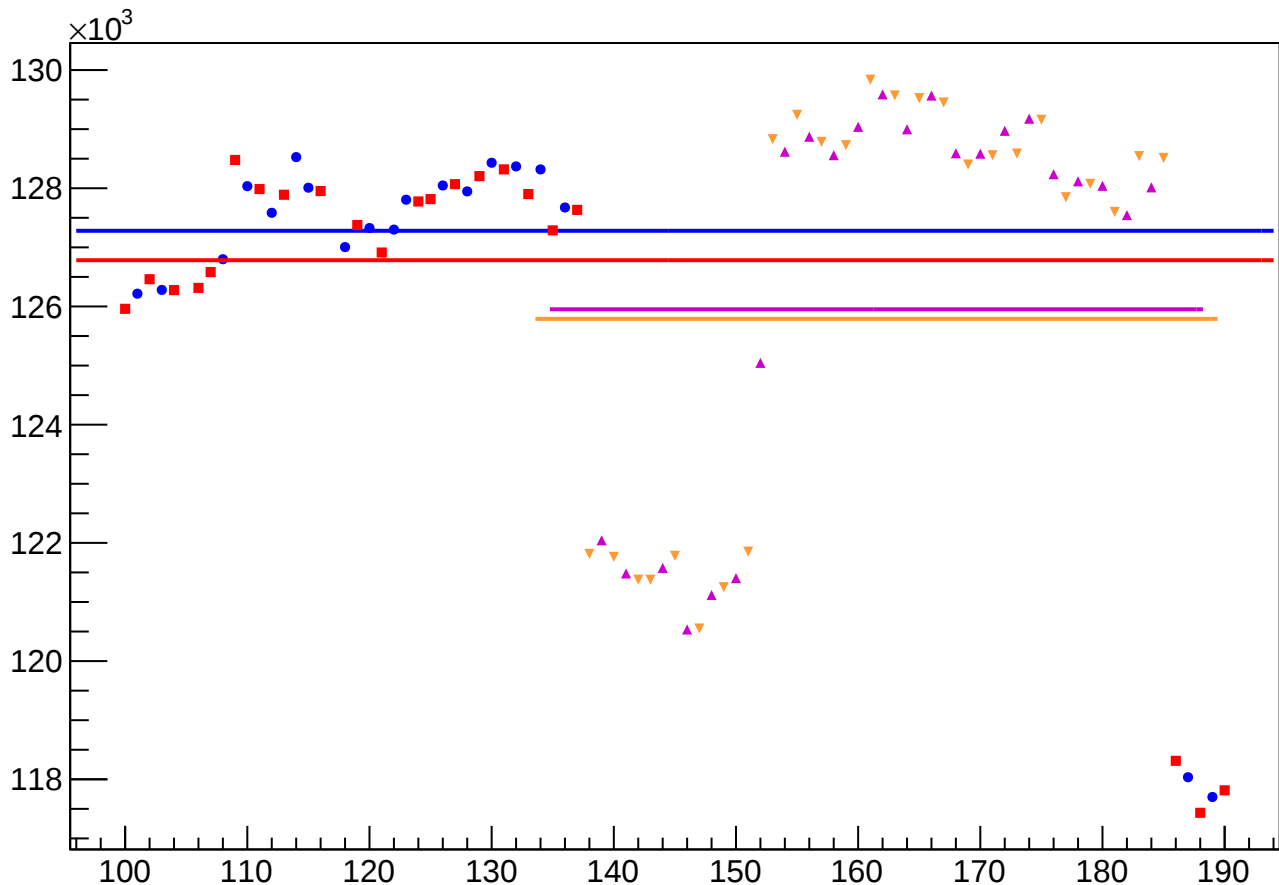
Right: 172.402+/-0.033 χ^2/NDF : 2264455.5/40

In: 198.068+/-0.029 χ^2/NDF : 1993532.4/41

Out: 194.153+/-0.027 χ^2/NDF : 2470031.6/46

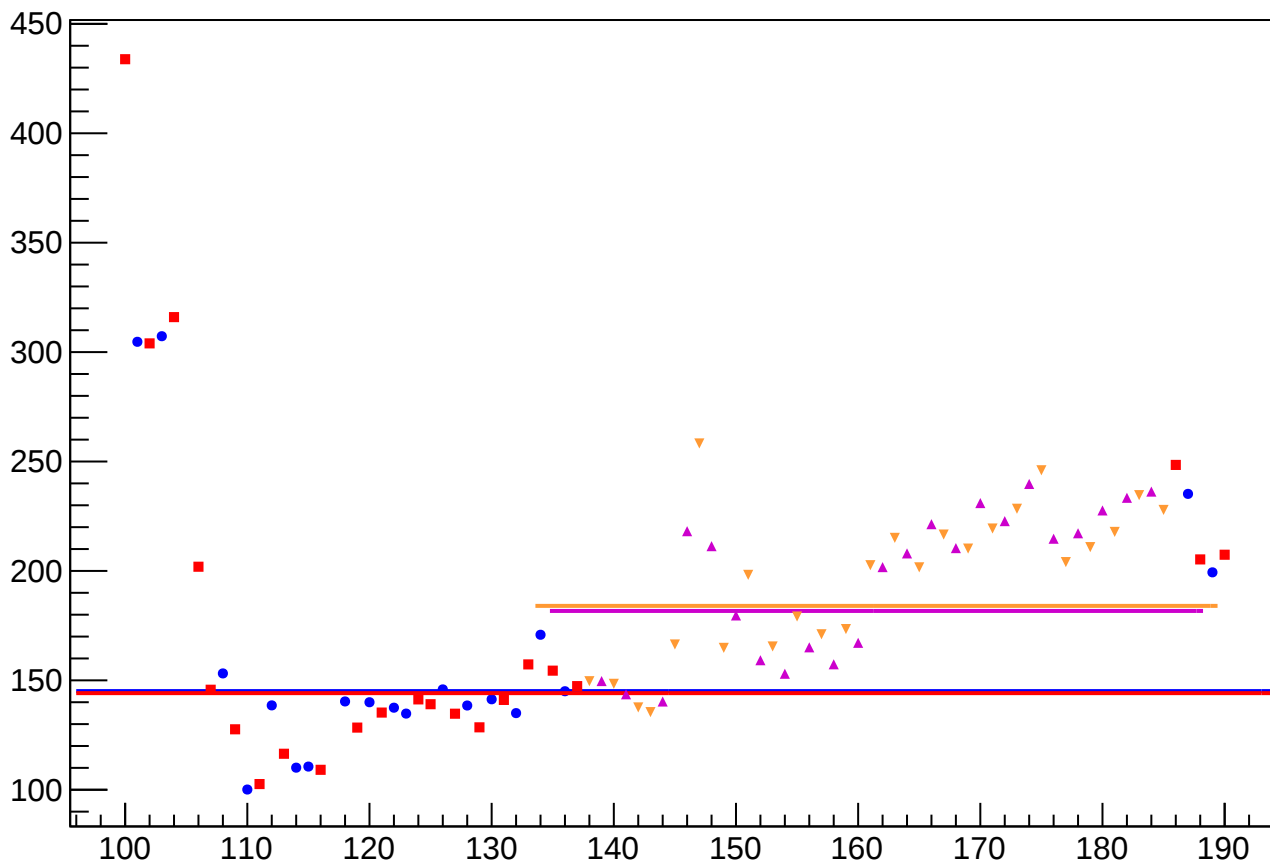
All: 195.981+/-0.020 χ^2/NDF : 4473112.6/88

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127280.321 $\pm$ 0.057	χ^2 /NDF: 1366376025.4/18	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 127007.505 $\pm$ 0.038	χ^2 /NDF: 4708076360.1
Right Out: 126782.036 $\pm$ 0.052	χ^2 /NDF: 3300030167.6/21	In: 126456.301 $\pm$ 0.035	χ^2 /NDF: 7543583125.5/4
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 126204.269 $\pm$ 0.034	χ^2 /NDF: 10256901844.0
		All: 126324.304 $\pm$ 0.024	χ^2 /NDF: 17827359

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 145.084 $\pm$ 0.040 χ^2 /NDF: 946955.7/18

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 144.151 $\pm$ 0.037 χ^2 /NDF: 1342888.4/21

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

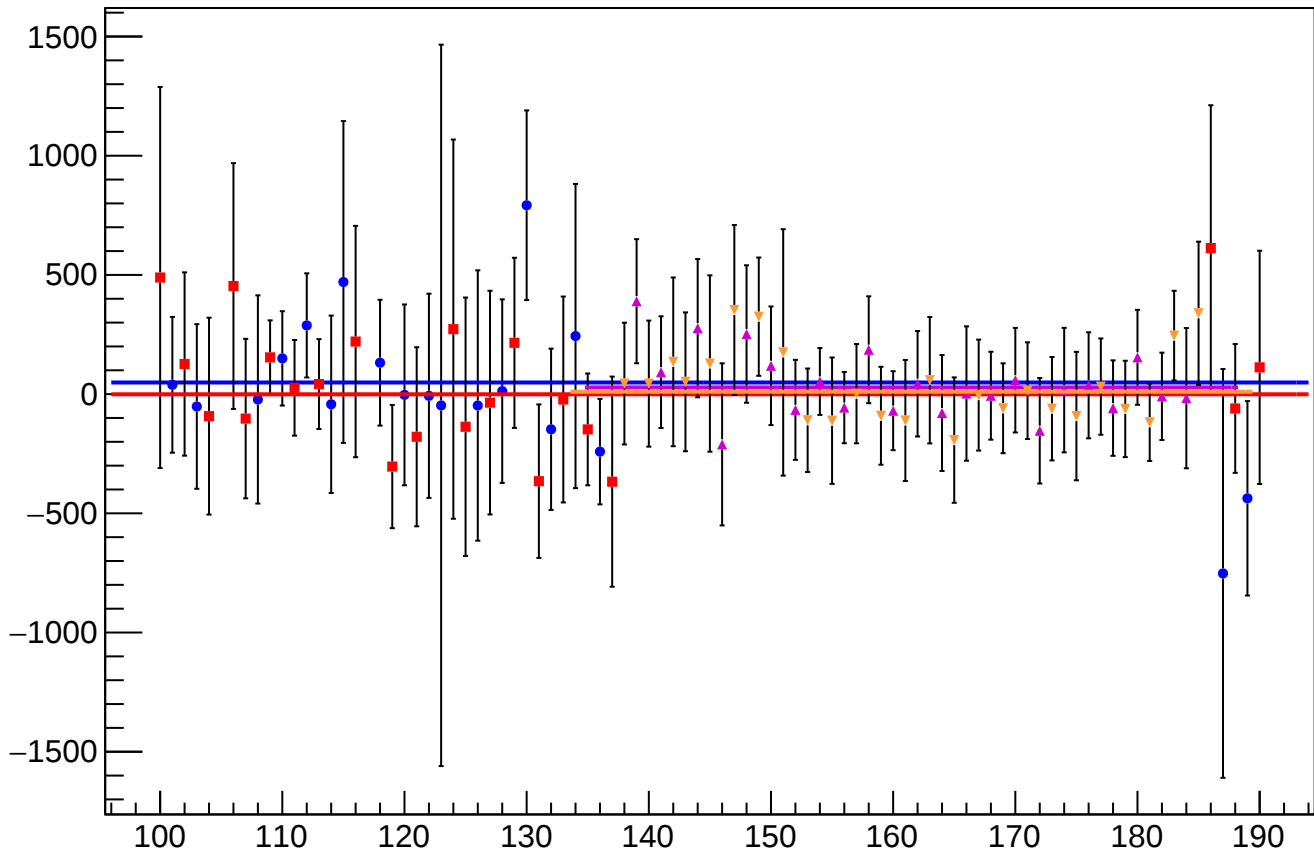
Right: 144.573 $\pm$ 0.027 χ^2 /NDF: 2290136.2/40

In: 167.815 $\pm$ 0.025 χ^2 /NDF: 2573546.8/41

Out: 167.379 $\pm$ 0.024 χ^2 /NDF: 3156605.9/46

All: 167.587 $\pm$ 0.017 χ^2 /NDF: 5730313.3/88

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 48.848+/-78.019 χ^2/NDF : 10.1/18

Left Out: 10.078+/-47.488 χ^2/NDF : 8.5/24

Right Out: -0.617+/-66.799 χ^2/NDF : 8.4/21

Left In: 28.050+/-44.573 χ^2/NDF : 7.0/22

Left: 19.632+/-32.499 χ^2/NDF : 15.5/47

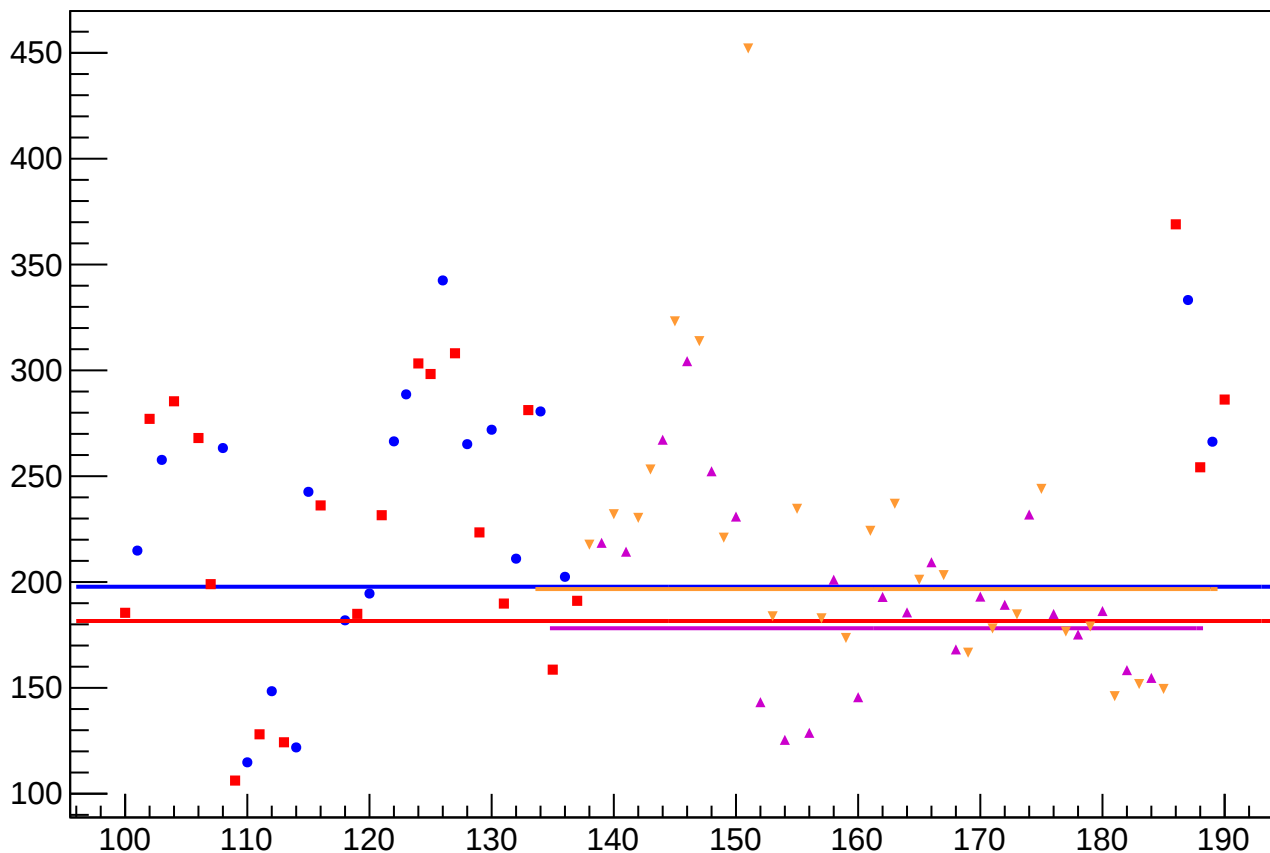
Right: 20.306+/-50.741 χ^2/NDF : 18.7/40

In: 33.168+/-38.702 χ^2/NDF : 17.1/41

Out: 6.487+/-38.704 χ^2/NDF : 16.8/46

All: 19.828+/-27.367 χ^2/NDF : 34.2/88

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 197.781 $\pm$ 0.055 χ^2 /NDF: 1129770.3/18

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF: 1782715.7/24

Right Out: 181.590 $\pm$ 0.047 χ^2 /NDF: 2043909.7/21

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

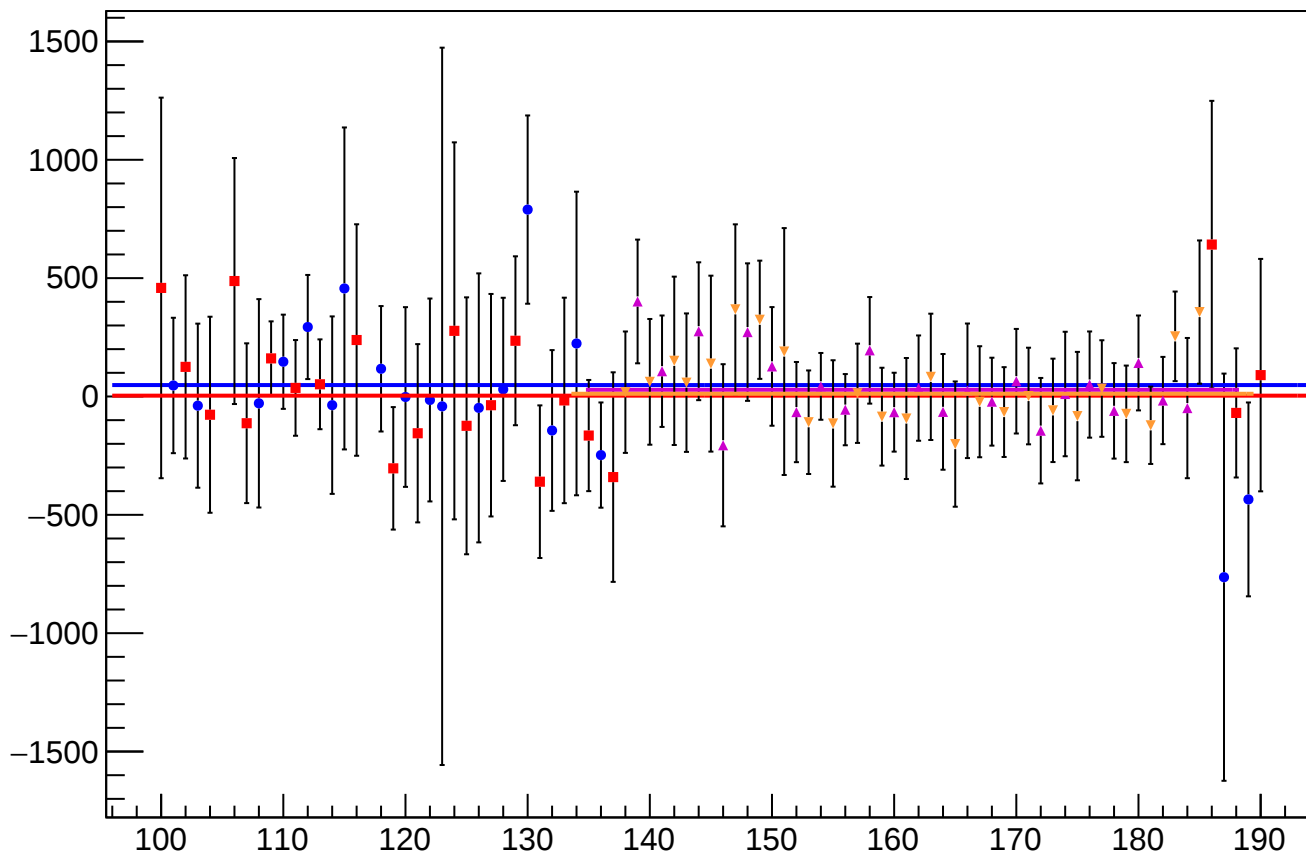
Right: 188.438 $\pm$ 0.036 χ^2 /NDF: 3223379.3/40

In: 182.992 $\pm$ 0.027 χ^2 /NDF: 2844048.4/41

Out: 191.615 $\pm$ 0.027 χ^2 /NDF: 3894438.8/46

All: 187.303 $\pm$ 0.019 χ^2 /NDF: 6788121.7/88

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 48.272 $\pm$ 78.397 χ^2 /NDF: 10.1/18

Left Out: 11.479 $\pm$ 47.819 χ^2 /NDF:8.8/24

Right Out: 3.487 $\pm$ 67.175 χ^2 /NDF: 8.6/21

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

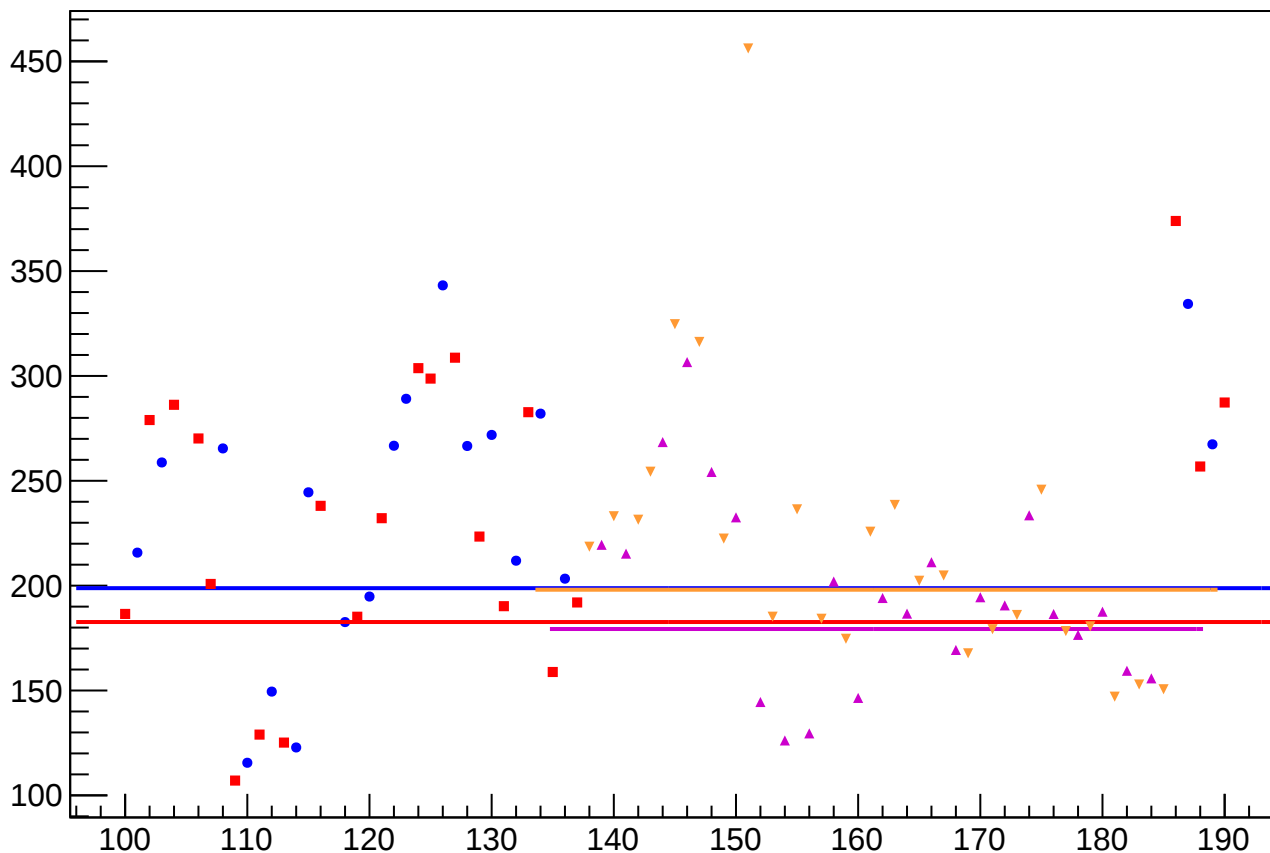
Right: 22.448 $\pm$ 51.010 χ^2 /NDF: 18.8/40

In: 33.212 $\pm$ 38.938 χ^2 /NDF:17.2/41

Out: 8.791 $\pm$ 38.957 χ^2 /NDF:17.4/46

All: 21.007 $\pm$ 27.540 χ^2 /NDF: 34.8/88

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 198.802 $\pm$ 0.055 χ^2/NDF : 1120602.6/18

Left Out: 198.059 $\pm$ 0.034 χ^2/NDF : 1778526.5/24

Right Out: 182.657 $\pm$ 0.047 χ^2/NDF : 2037285.1/21

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

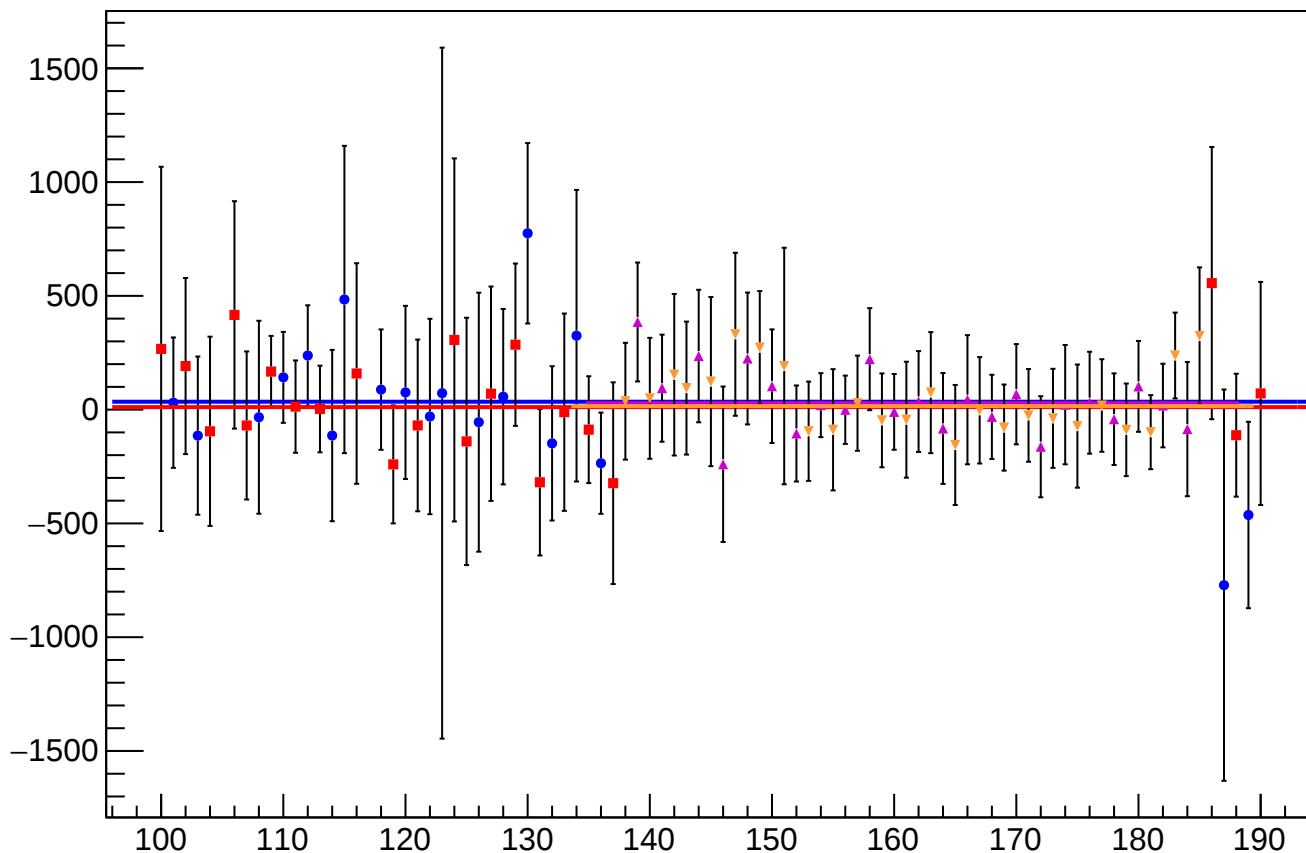
Right: 189.493 $\pm$ 0.036 χ^2/NDF : 3206798.0/40

In: 184.129 $\pm$ 0.028 χ^2/NDF : 2831875.5/41

Out: 192.879 $\pm$ 0.028 χ^2/NDF : 3885586.9/46

All: 188.502 $\pm$ 0.019 χ^2/NDF : 6767935.8/88

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 34.817 $\pm$ 78.393 χ^2 /NDF: 9.9/18

Left Out: 15.437 $\pm$ 47.695 χ^2 /NDF: 7.0/24

Right Out: 11.068 $\pm$ 67.050 χ^2 /NDF: 6.9/21

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

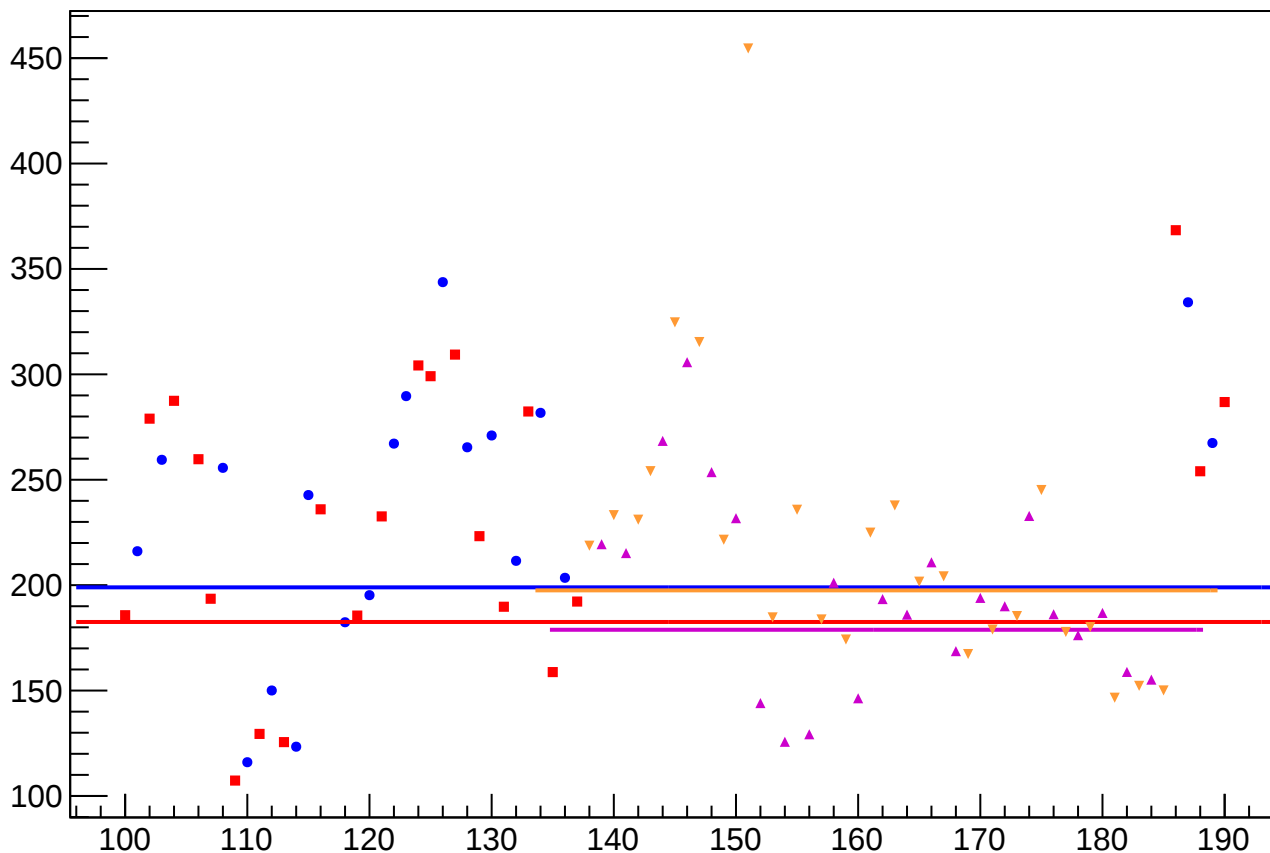
Right: 21.102 $\pm$ 50.955 χ^2 /NDF: 16.8/40

In: 29.884 $\pm$ 38.859 χ^2 /NDF: 16.2/41

Out: 13.969 $\pm$ 38.865 χ^2 /NDF: 13.8/46

All: 21.928 $\pm$ 27.480 χ^2 /NDF: 30.1/88

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 198.960 ± 0.055 $\chi^2/NDF: 1098169.6/18$

Left Out: 197.527 ± 0.034 $\chi^2/NDF: 1784225.5/24$

Right Out: 182.534 ± 0.047 $\chi^2/NDF: 2000281.6/21$

Left In: 178.836 ± 0.032 $\chi^2/NDF: 1622266.9/22$

Left: 187.585 ± 0.023 $\chi^2/NDF: 3569877.1/47$

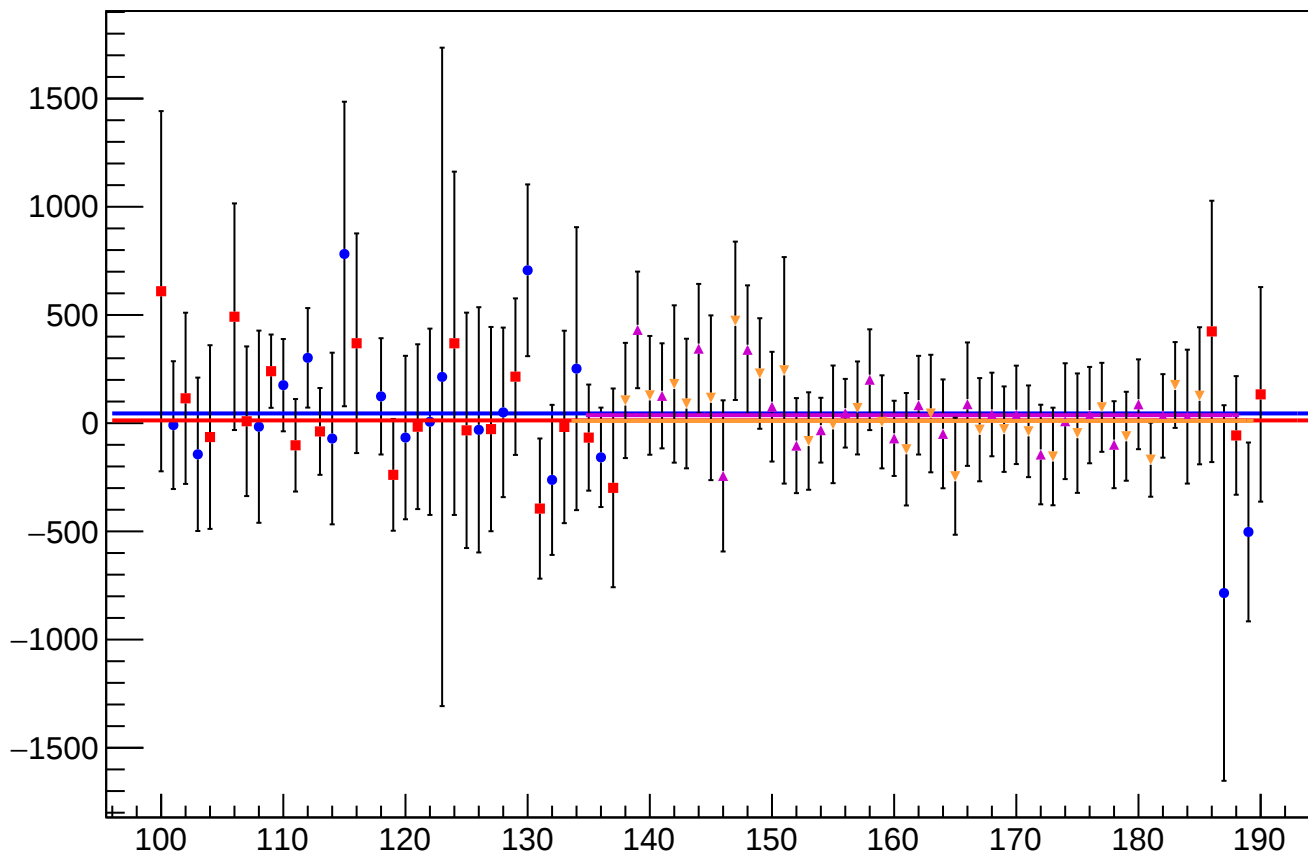
Right: 189.474 ± 0.036 $\chi^2/NDF: 3149161.0/40$

In: 183.781 ± 0.027 $\chi^2/NDF: 2819851.4/41$

Out: 192.490 ± 0.027 $\chi^2/NDF: 3850910.7/46$

All: 188.135 ± 0.019 $\chi^2/NDF: 6720986.4/88$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 45.039 $\pm$ 80.779 χ^2 /NDF: 10.5/18

Left Out: 10.534 $\pm$ 49.197 χ^2 /NDF: 7.5/24

Right Out: 12.785 $\pm$ 69.678 χ^2 /NDF: 8.3/21

Left In: 37.000 $\pm$ 46.358 χ^2 /NDF: 7.9/22

Left: 24.553 $\pm$ 33.739 χ^2 /NDF: 15.5/47

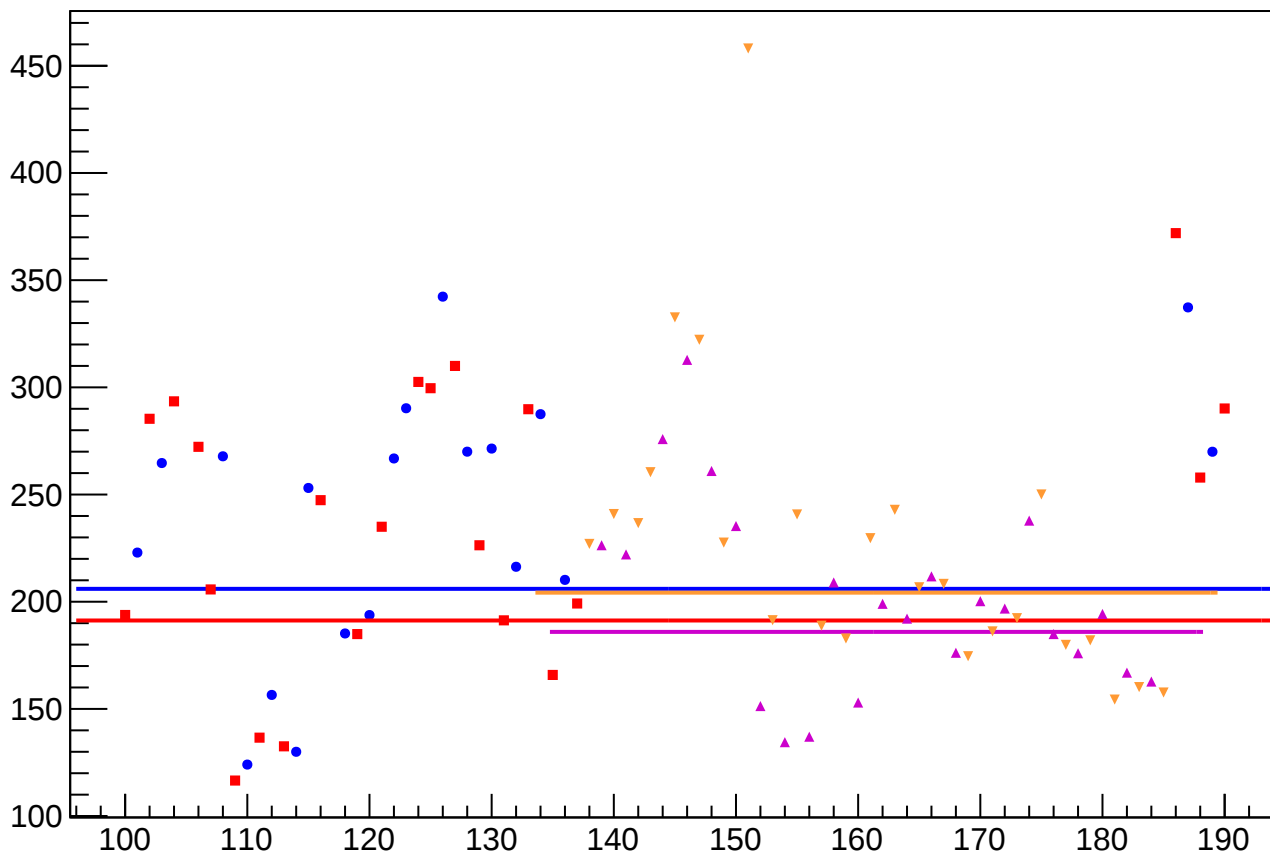
Right: 26.545 $\pm$ 52.761 χ^2 /NDF: 18.9/40

In: 38.991 $\pm$ 40.207 χ^2 /NDF: 18.4/41

Out: 11.283 $\pm$ 40.189 χ^2 /NDF: 15.8/46

All: 25.131 $\pm$ 28.424 χ^2 /NDF: 34.4/88

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 206.009 $\pm$ 0.057 χ^2 /NDF: 981550.6/18

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 191.248 $\pm$ 0.049 χ^2 /NDF: 1784844.2/21

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

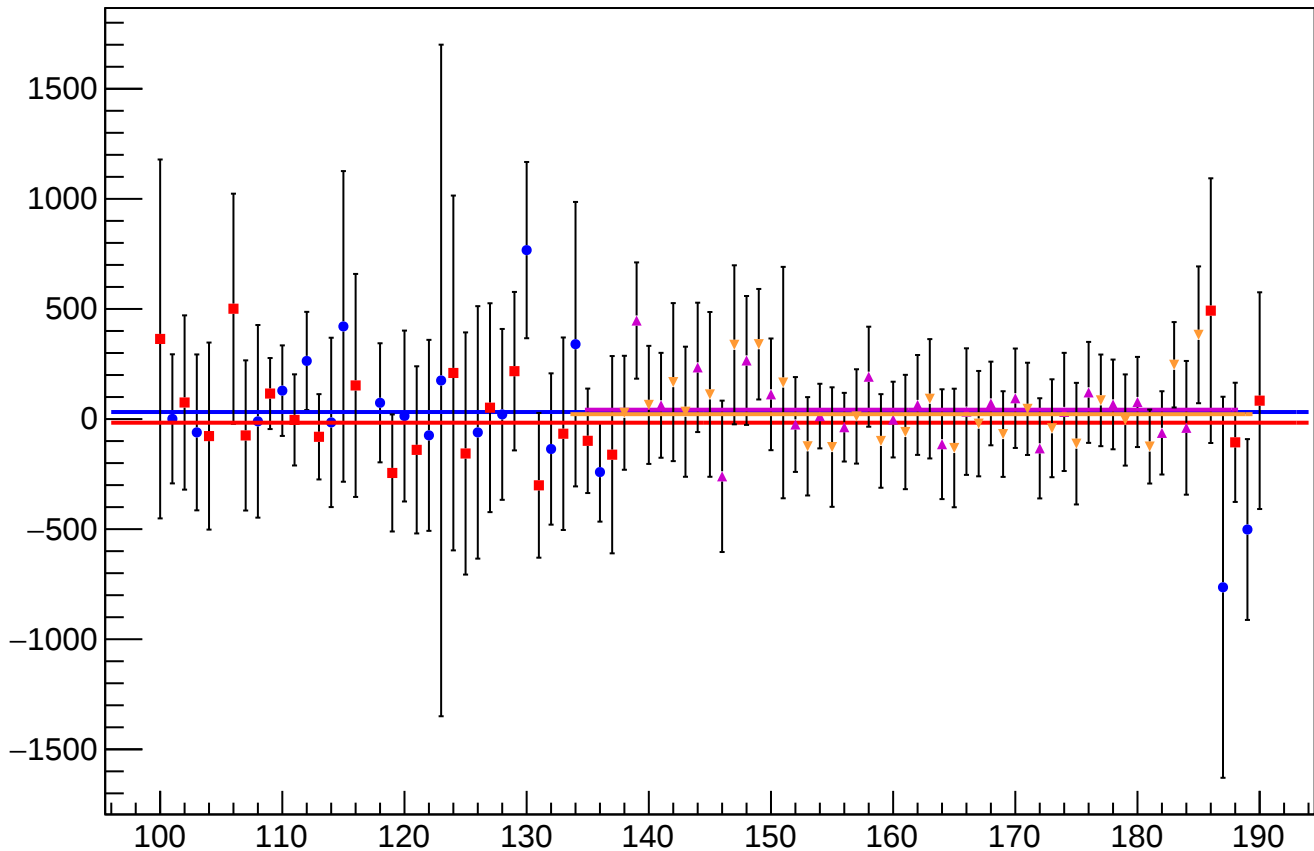
Right: 197.545 $\pm$ 0.037 χ^2 /NDF: 2804689.9/40

In: 190.906 $\pm$ 0.028 χ^2 /NDF:2534560.2/41

Out: 199.915 $\pm$ 0.028 χ^2 /NDF:3506885.3/46

All: 195.412 $\pm$ 0.020 χ^2 /NDF: 6091677.3/88

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 31.927 $\pm$ 79.749 χ^2 /NDF: 9.7/18

Left Out: 22.189 $\pm$ 48.738 χ^2 /NDF:8.4/24

Right Out: -16.615 $\pm$ 68.373 χ^2 /NDF: 5.5/21

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

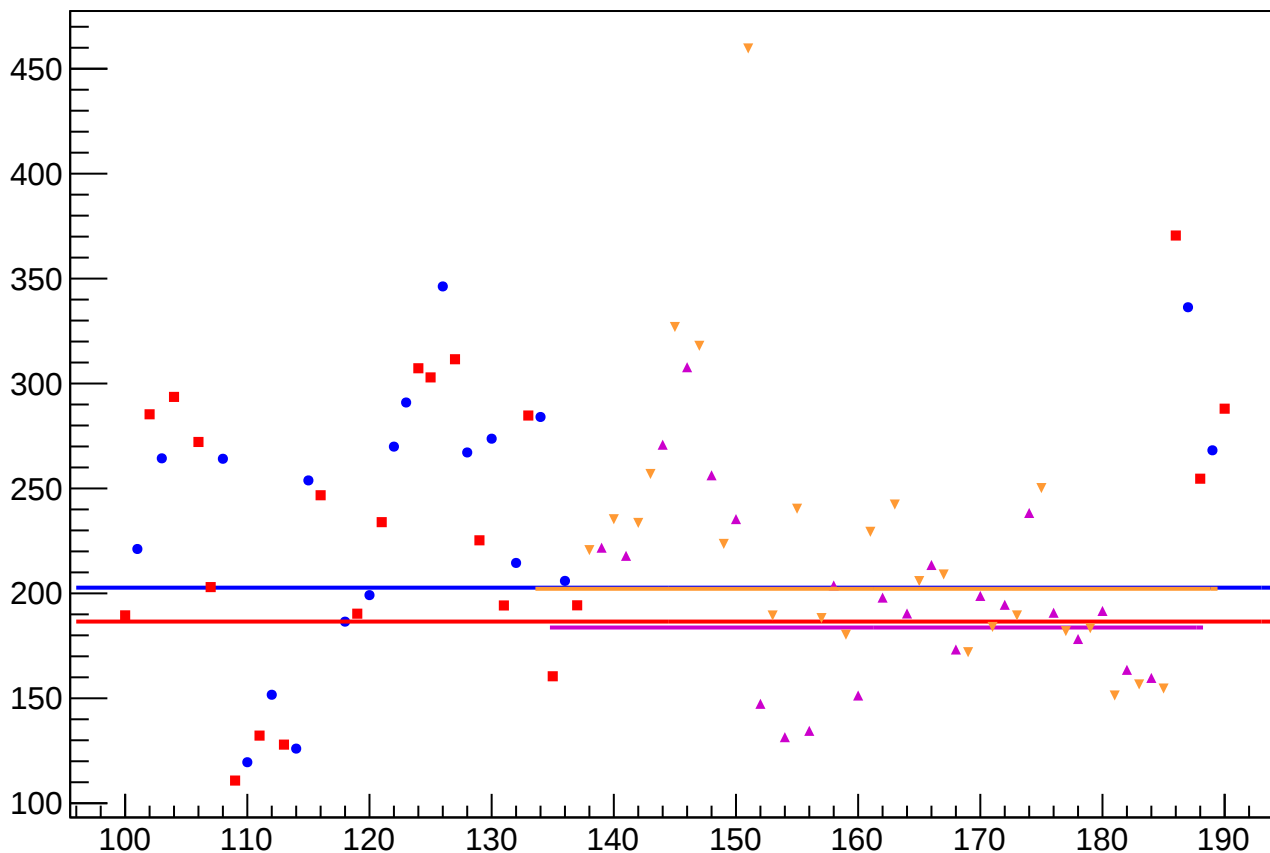
Right: 3.950 $\pm$ 51.908 χ^2 /NDF: 15.4/40

In: 39.832 $\pm$ 39.756 χ^2 /NDF:16.4/41

Out: 9.115 $\pm$ 39.687 χ^2 /NDF:14.1/46

All: 24.447 $\pm$ 28.087 χ^2 /NDF: 30.8/88

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 202.721 $\pm$ 0.056 χ^2/NDF : 1068562.9/18

Left Out: 202.186 $\pm$ 0.034 χ^2/NDF : 1696571.9/24

Right Out: 186.565 $\pm$ 0.048 χ^2/NDF : 1954001.3/21

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

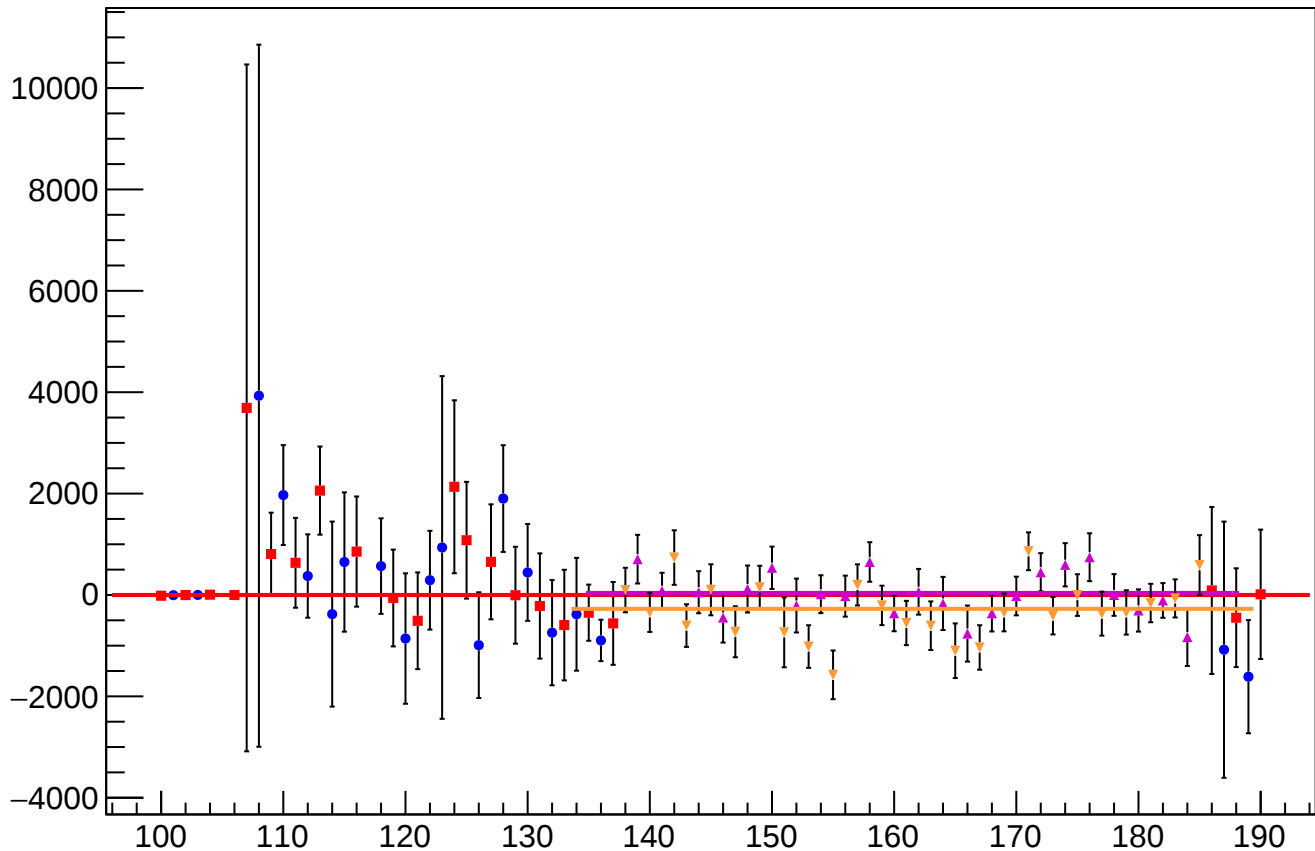
Right: 193.410 $\pm$ 0.037 χ^2/NDF : 3069869.8/40

In: 188.451 $\pm$ 0.028 χ^2/NDF : 2649703.1/41

Out: 196.923 $\pm$ 0.028 χ^2/NDF : 3719793.5/46

All: 192.694 $\pm$ 0.020 χ^2/NDF : 6414986.8/88

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.536 ± 2.251 χ^2/NDF : 19.2/18

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.729 ± 2.111 χ^2/NDF : 18.4/21

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

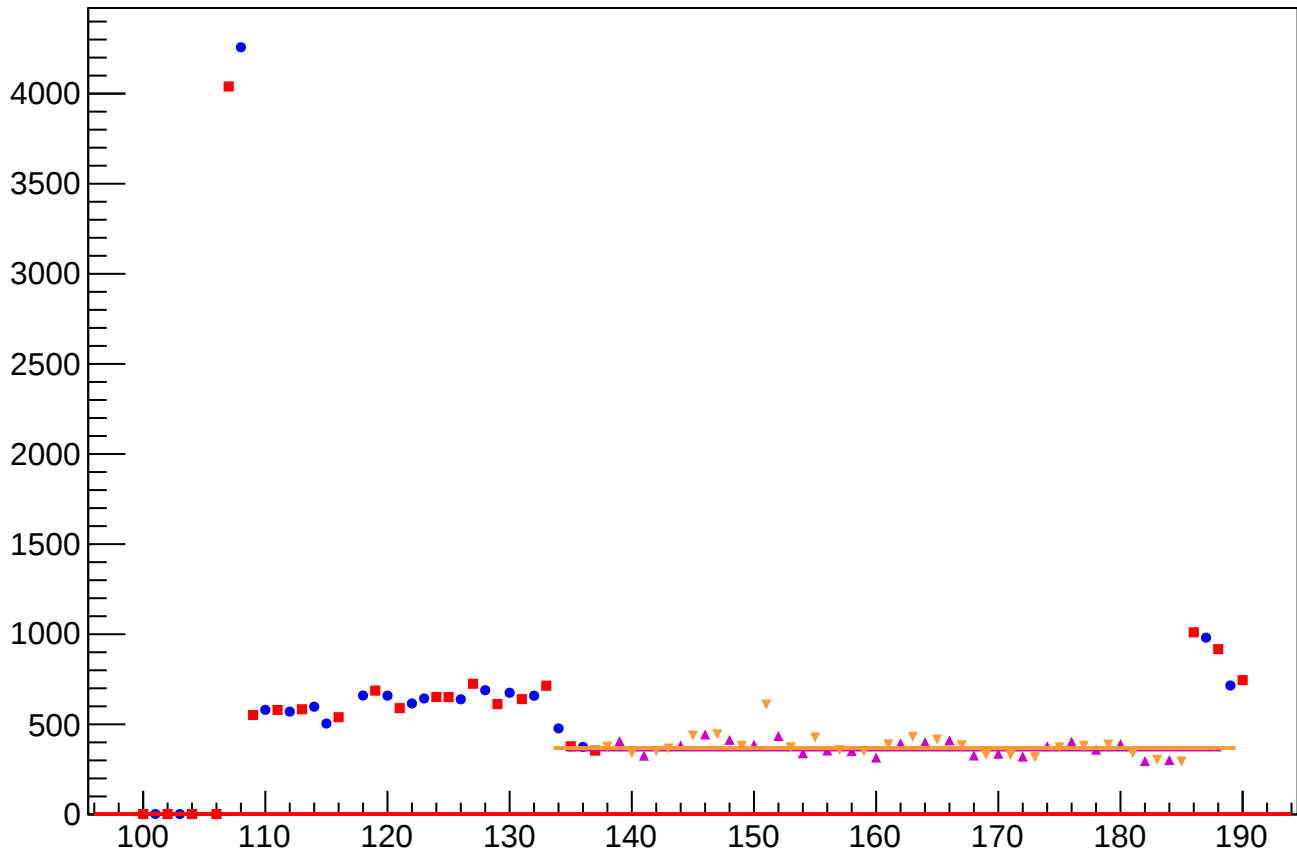
Right: -0.331 ± 1.540 χ^2/NDF : 38.1/40

In: -1.508 ± 2.251 χ^2/NDF : 39.6/41

Out: 0.567 ± 2.110 χ^2/NDF : 66.7/46

All: -0.404 ± 1.540 χ^2/NDF : 106.7/88

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.460+/-0.002 χ^2/NDF : 11783286.9/18

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.444+/-0.001 χ^2/NDF : 14285275.8/21

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

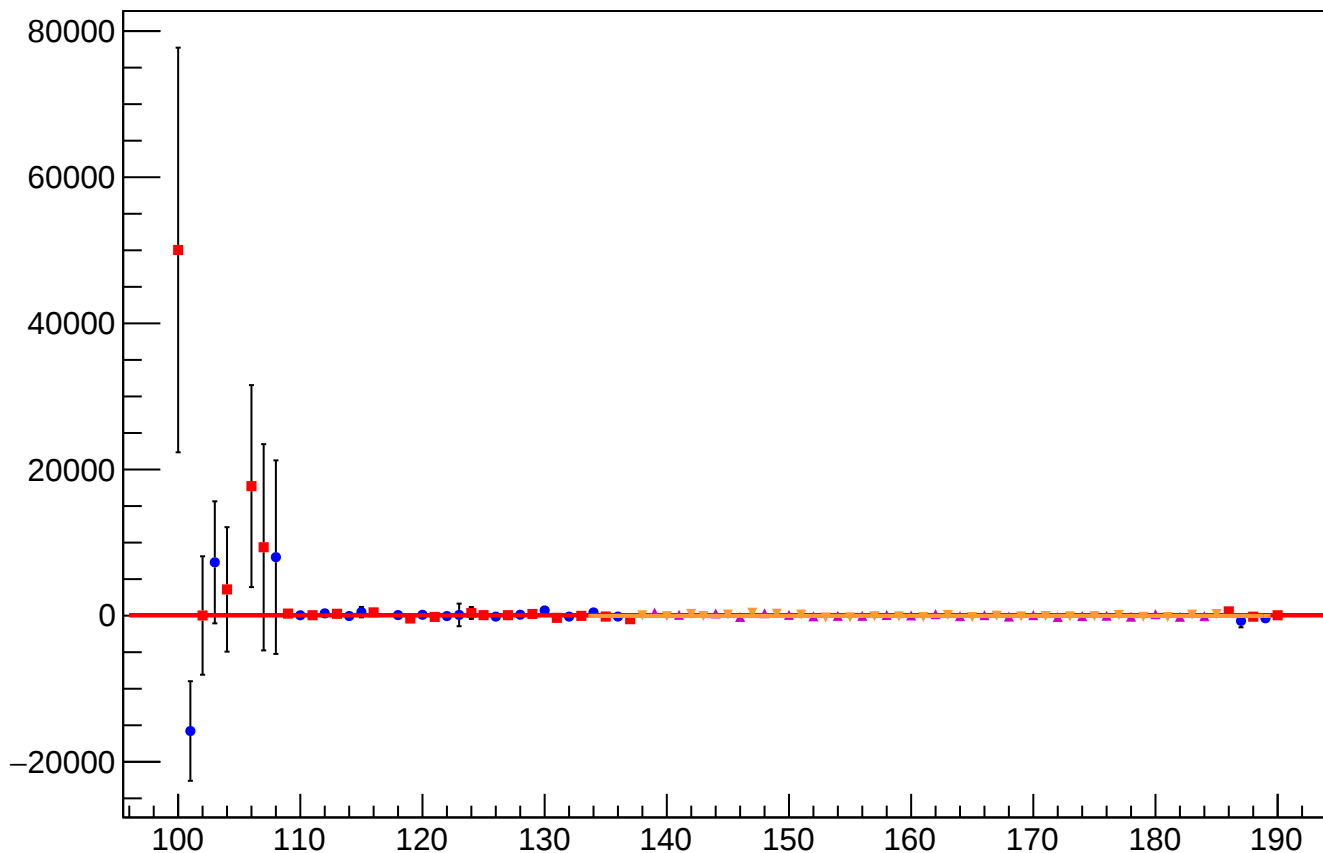
Right: 2.452+/-0.001 χ^2/NDF : 26068610.3/40

In: 2.697+/-0.002 χ^2/NDF : 45706599.0/41

Out: 2.661+/-0.001 χ^2/NDF : 50400666.2/46

All: 2.677+/-0.001 χ^2/NDF : 96107539.2/88

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 69.876+/-89.394 χ^2/NDF : 14.0/18

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: 33.490+/-79.167 χ^2/NDF : 15.3/21

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

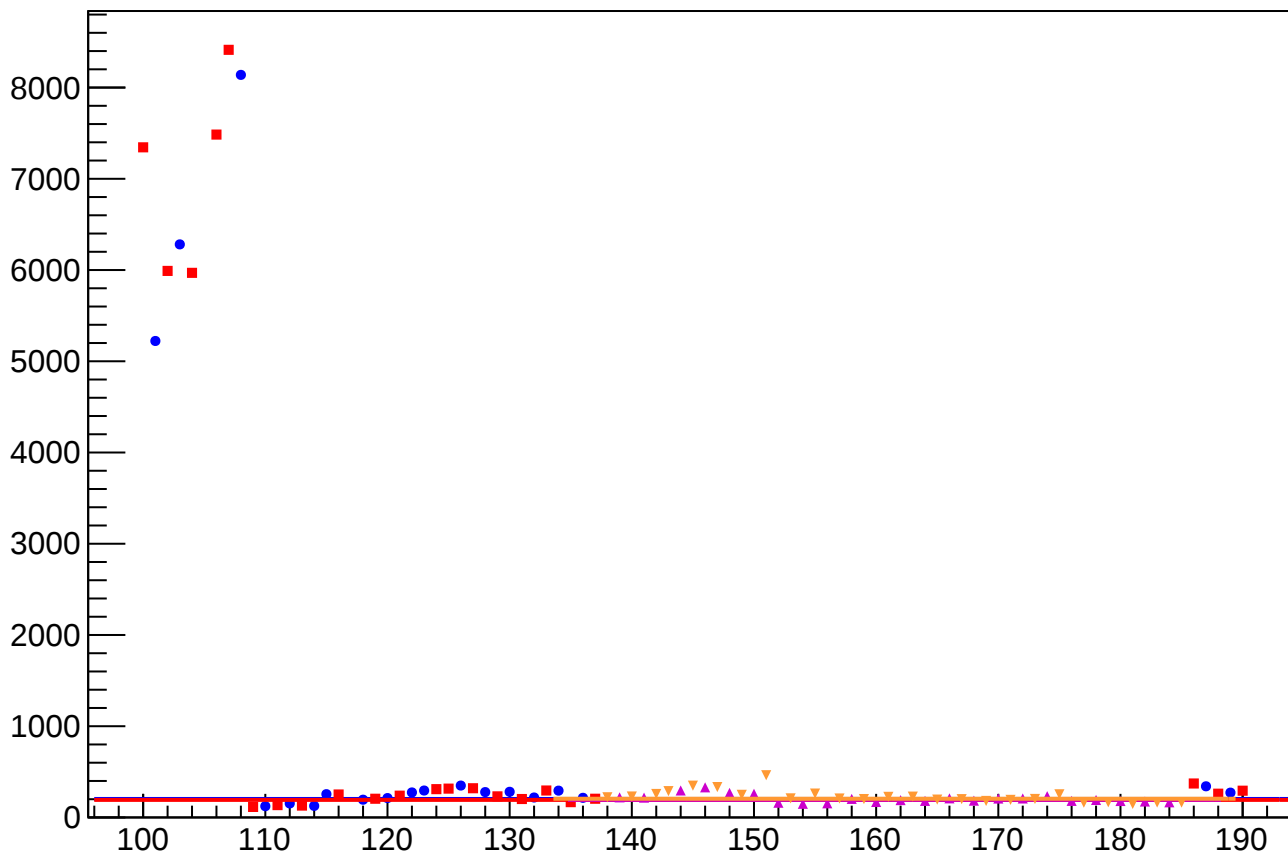
Right: 49.484+/-59.267 χ^2/NDF : 29.4/40

In: 37.429+/-42.311 χ^2/NDF : 23.7/41

Out: -18.606+/-42.017 χ^2/NDF : 25.1/46

All: 9.216+/-29.814 χ^2/NDF : 49.7/88

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 202.564+/-0.063 χ^2/NDF : 3810922.1/18

Left Out: 205.114+/-0.035 χ^2/NDF : 1957484.4/24

Right Out: 192.515+/-0.056 χ^2/NDF : 4739525.6/21

Left In: 193.616+/-0.034 χ^2/NDF : 1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

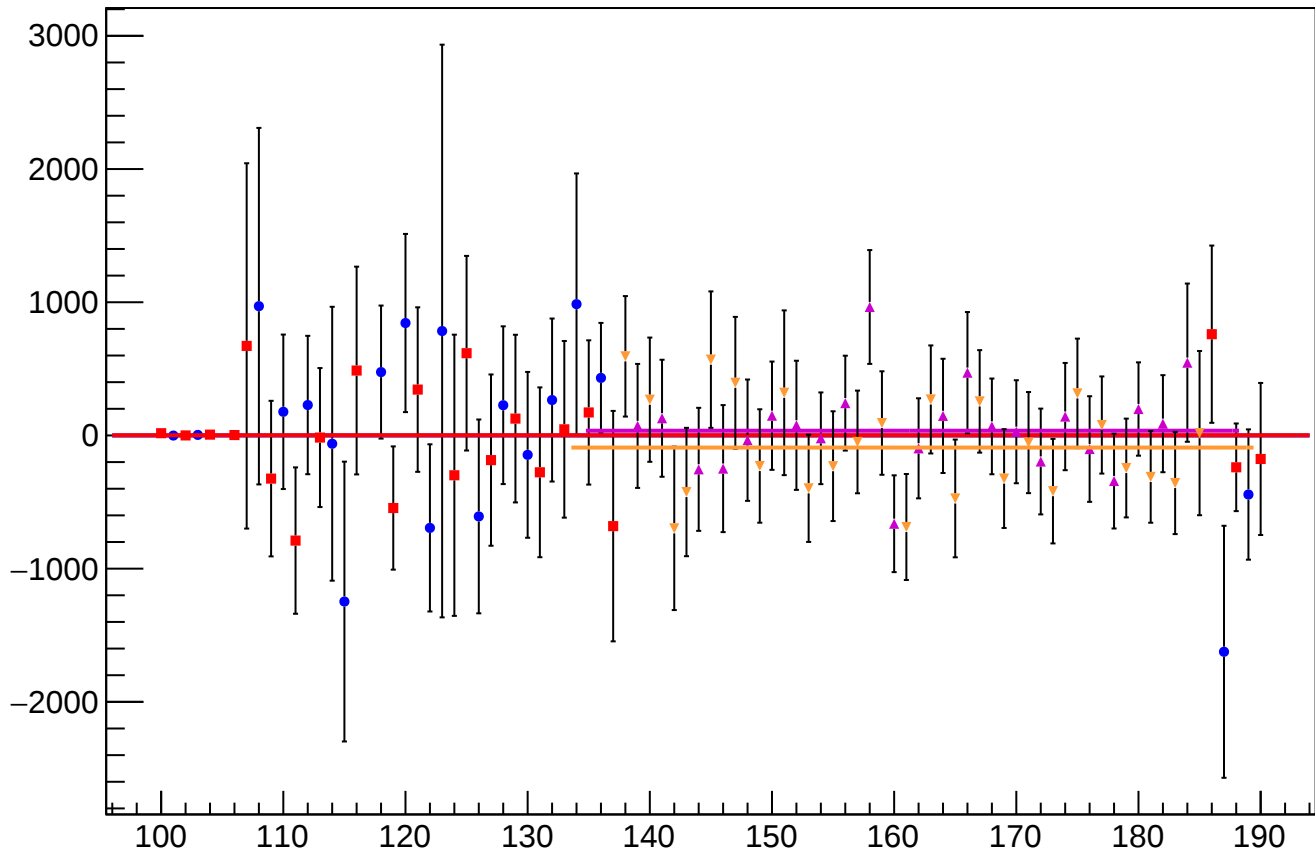
Right: 196.932+/-0.042 χ^2/NDF : 8564612.2/40

In: 195.621+/-0.030 χ^2/NDF : 5005942.0/41

Out: 201.565+/-0.030 χ^2/NDF : 6733394.9/46

All: 198.613+/-0.021 χ^2/NDF : 11759211.1/88

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.152 ± 1.737 χ^2/NDF : 13.9/18

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.320 ± 1.623 χ^2/NDF : 11.2/21

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

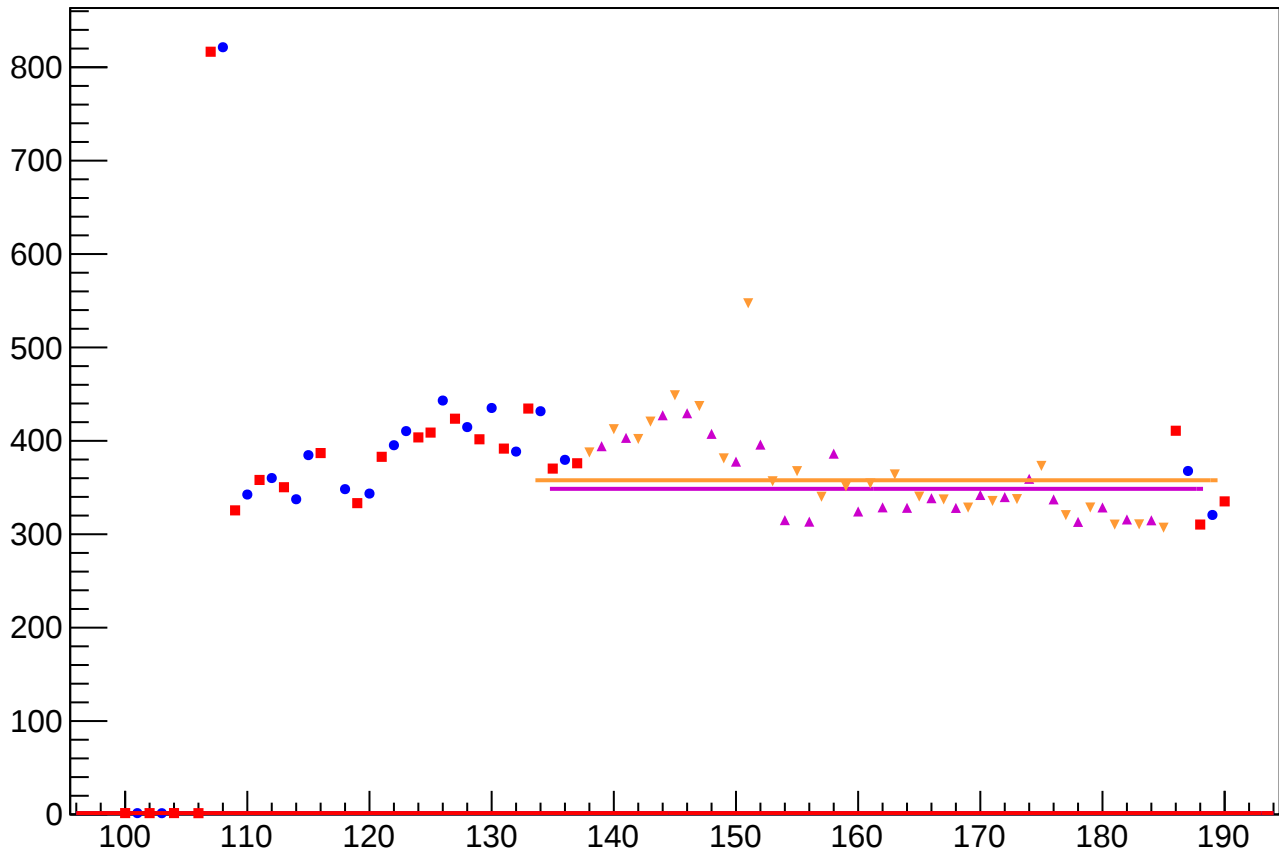
Right: 0.634 ± 1.186 χ^2/NDF : 25.5/40

In: -0.137 ± 1.736 χ^2/NDF : 27.5/41

Out: 1.286 ± 1.622 χ^2/NDF : 28.8/46

All: 0.623 ± 1.185 χ^2/NDF : 56.7/88

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.457+/-0.001 χ^2/NDF : 11923143.1/18

Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24

Right Out: 1.464+/-0.001 χ^2/NDF : 14035746.1/21

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

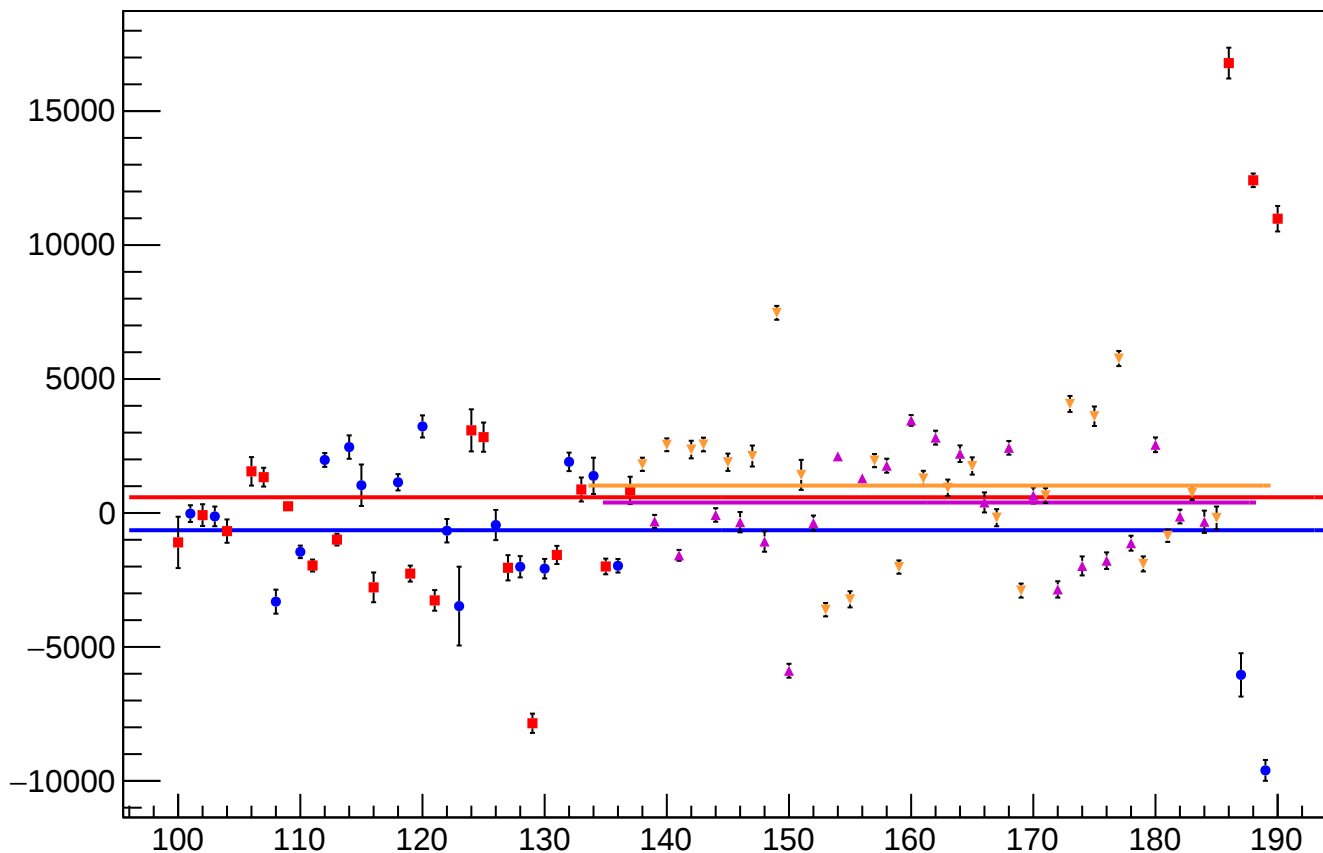
Right: 1.461+/-0.001 χ^2/NDF : 25958903.2/40

In: 1.604+/-0.001 χ^2/NDF : 46122247.3/41

Out: 1.596+/-0.001 χ^2/NDF : 50493858.2/46

All: 1.600+/-0.001 χ^2/NDF : 96616128.3/88

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -643.837+/-85.640 χ^2/NDF : 1032.3/18

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 586.604+/-73.449 χ^2/NDF : 4603.9/21

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

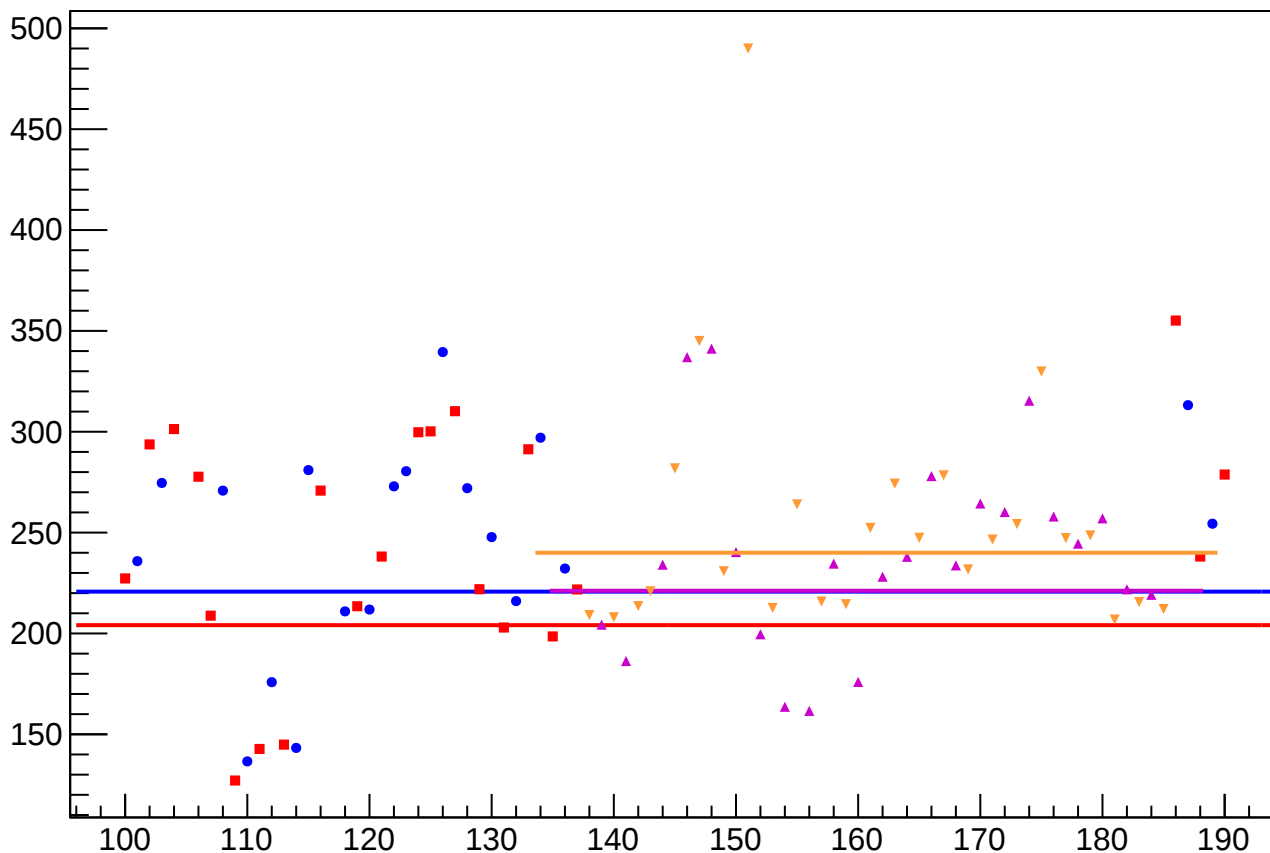
Right: 65.126+/-55.753 χ^2/NDF : 5755.1/40

In: 88.813+/-46.237 χ^2/NDF : 2720.5/41

Out: 858.028+/-45.197 χ^2/NDF : 6935.2/46

All: 482.171+/-32.321 χ^2/NDF : 9797.3/88

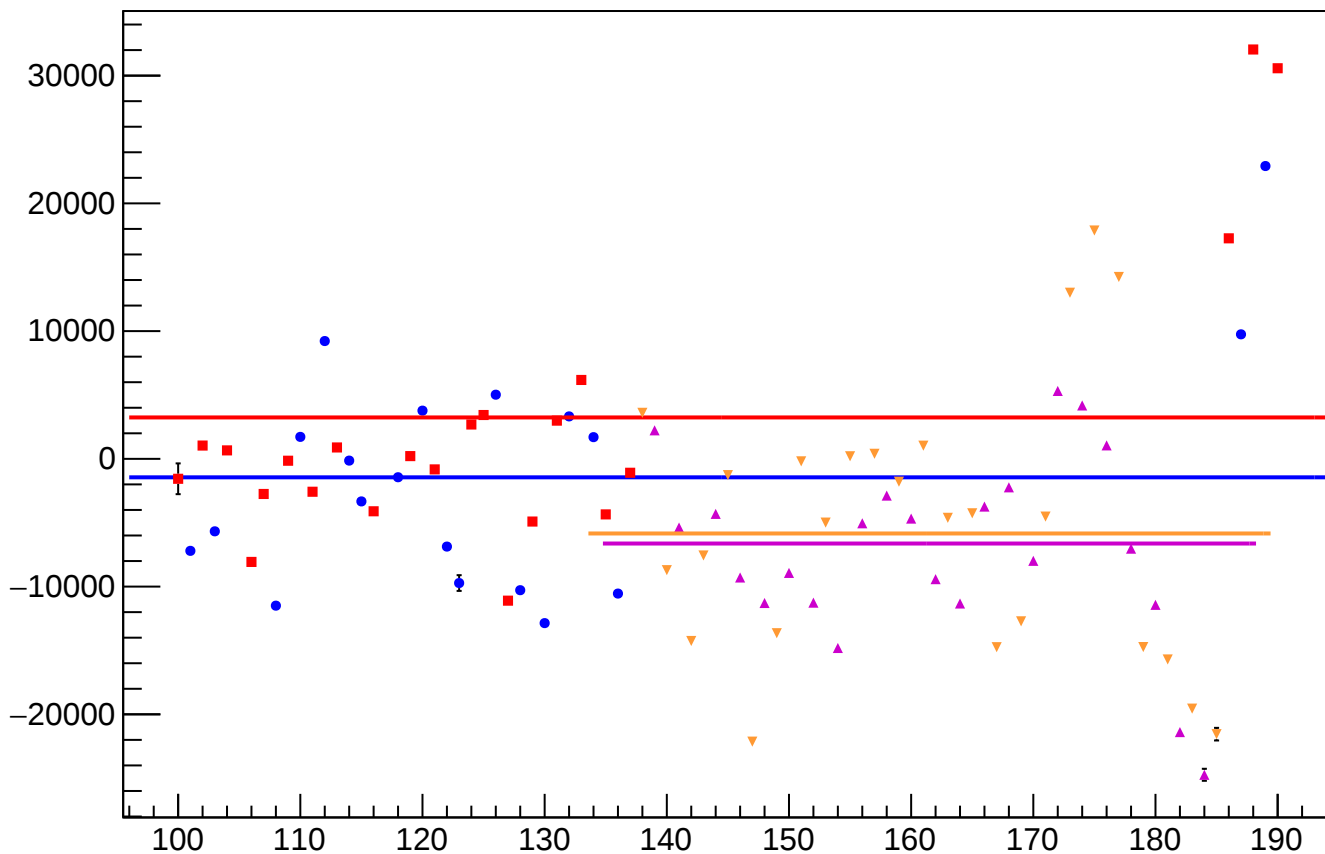
asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 220.736 ± 0.061 $\chi^2/\text{NDF}: 705186.3/18$
 Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$
 Right Out: 204.103 ± 0.052 $\chi^2/\text{NDF}: 1433293.7/21$
 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: 211.152 ± 0.039 $\chi^2/\text{NDF}: 2181945.0/40$
 In: 221.045 ± 0.033 $\chi^2/\text{NDF}: 2047741.1/41$
 Out: 226.419 ± 0.032 $\chi^2/\text{NDF}: 2732863.5/46$
 All: 223.793 ± 0.023 $\chi^2/\text{NDF}: 4794420.6/88$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -1446.436 $\pm$ 47.042 χ^2 /NDF: 36027.2/18

Left Out: -5841.615 $\pm$ 35.848 χ^2 /NDF:63397.3/24

Right Out: 3241.928 $\pm$ 42.571 χ^2 /NDF: 76020.4/21

Left In: -6628.388 $\pm$ 37.160 χ^2 /NDF:21738.0/22

Left: -6220.862 $\pm$ 25.800 χ^2 /NDF: 85367.5/47

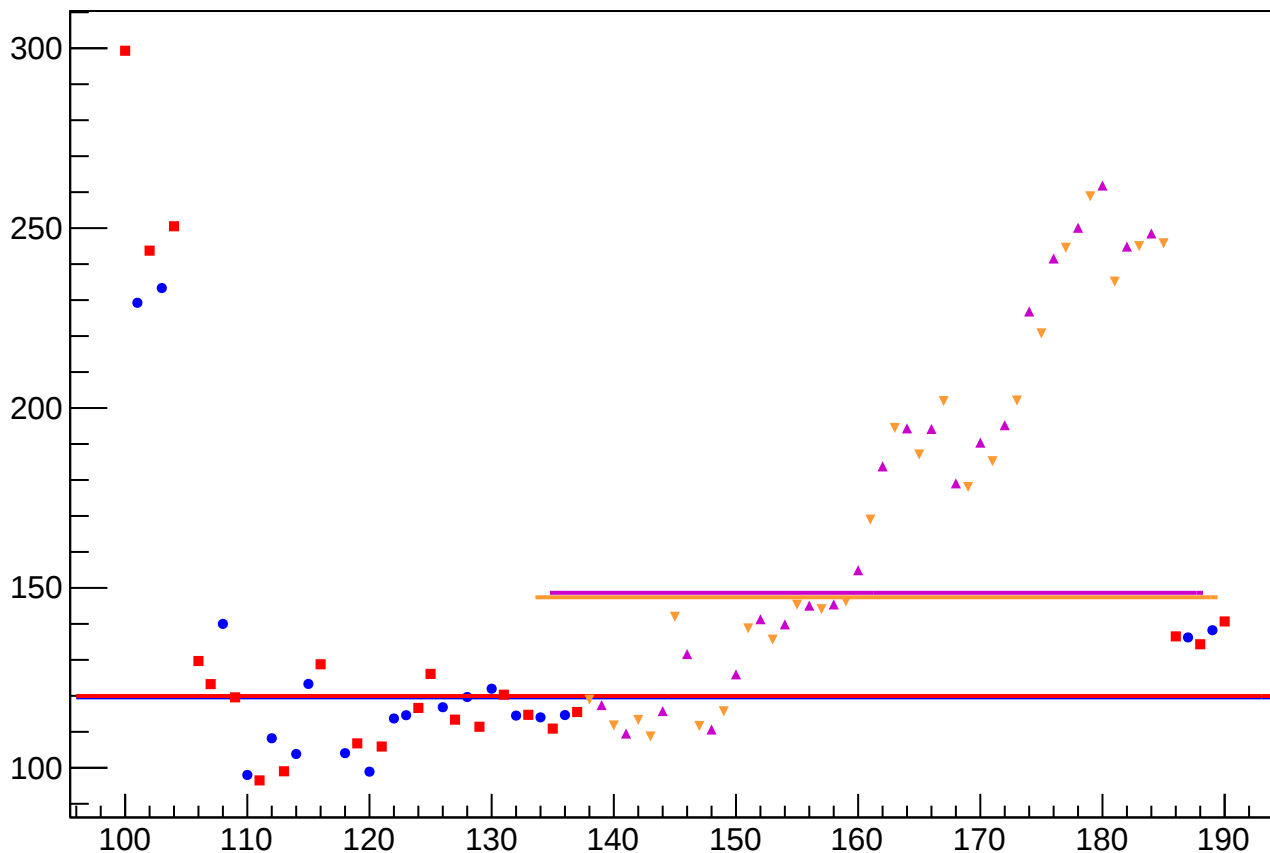
Right: 1131.041 $\pm$ 31.565 χ^2 /NDF: 117508.3/40

In: -4637.280 $\pm$ 29.160 χ^2 /NDF:65237.1/41

Out: -2072.993 $\pm$ 27.421 χ^2 /NDF:166056.5/46

All: -3276.405 $\pm$ 19.976 χ^2 /NDF: 235397.8/8

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 119.577+/-0.033 χ^2/NDF : 658356.7/18

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 119.952+/-0.030 χ^2/NDF : 744544.4/21

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

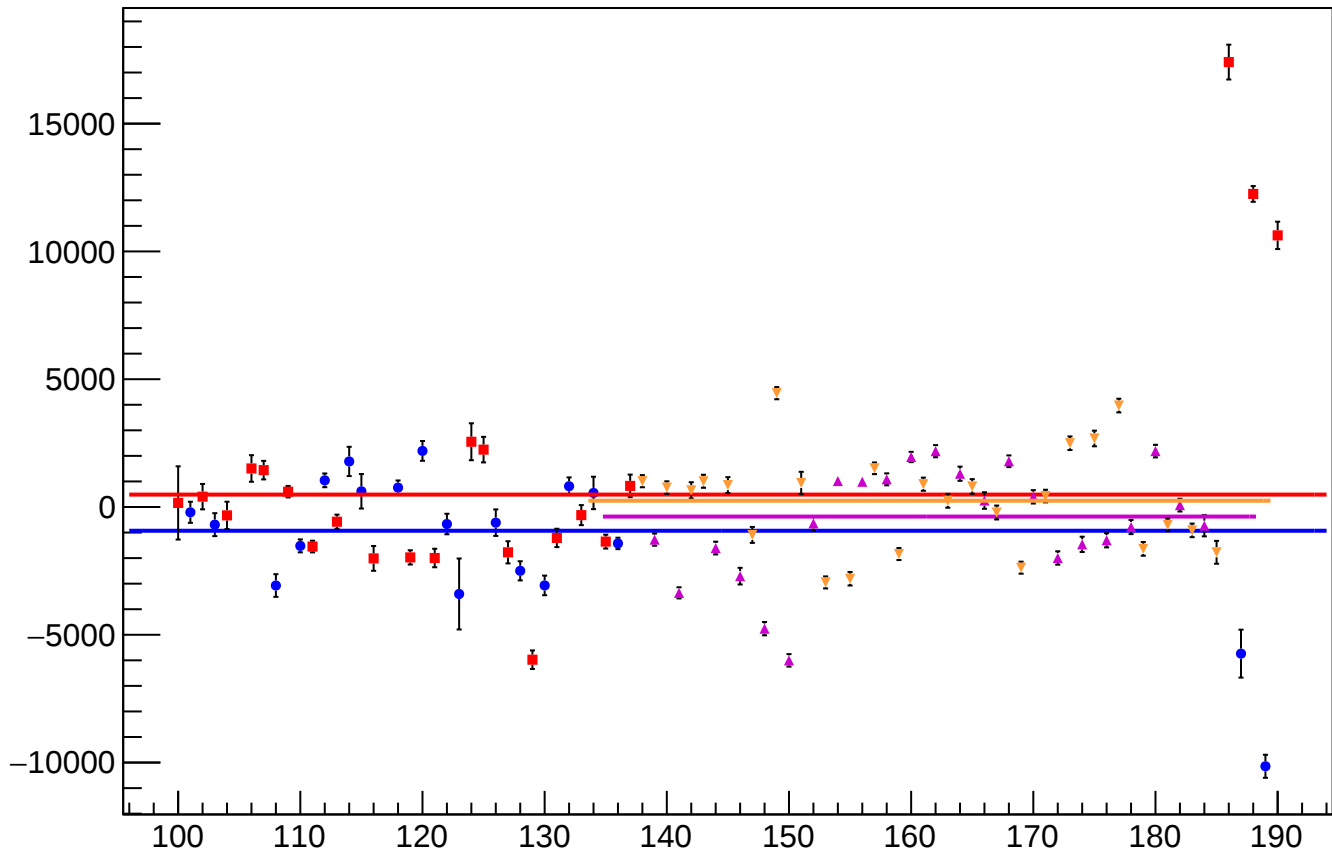
Right: 119.783+/-0.022 χ^2/NDF : 1402971.1/40

In: 137.474+/-0.021 χ^2/NDF : 3544035.1/41

Out: 136.010+/-0.019 χ^2/NDF : 3747982.5/46

All: 136.697+/-0.014 χ^2/NDF : 7294693.2/88

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -929.490 ± 87.314 $\chi^2/\text{NDF}: 747.7/18$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 485.356 ± 78.103 $\chi^2/\text{NDF}: 3127.6/21$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

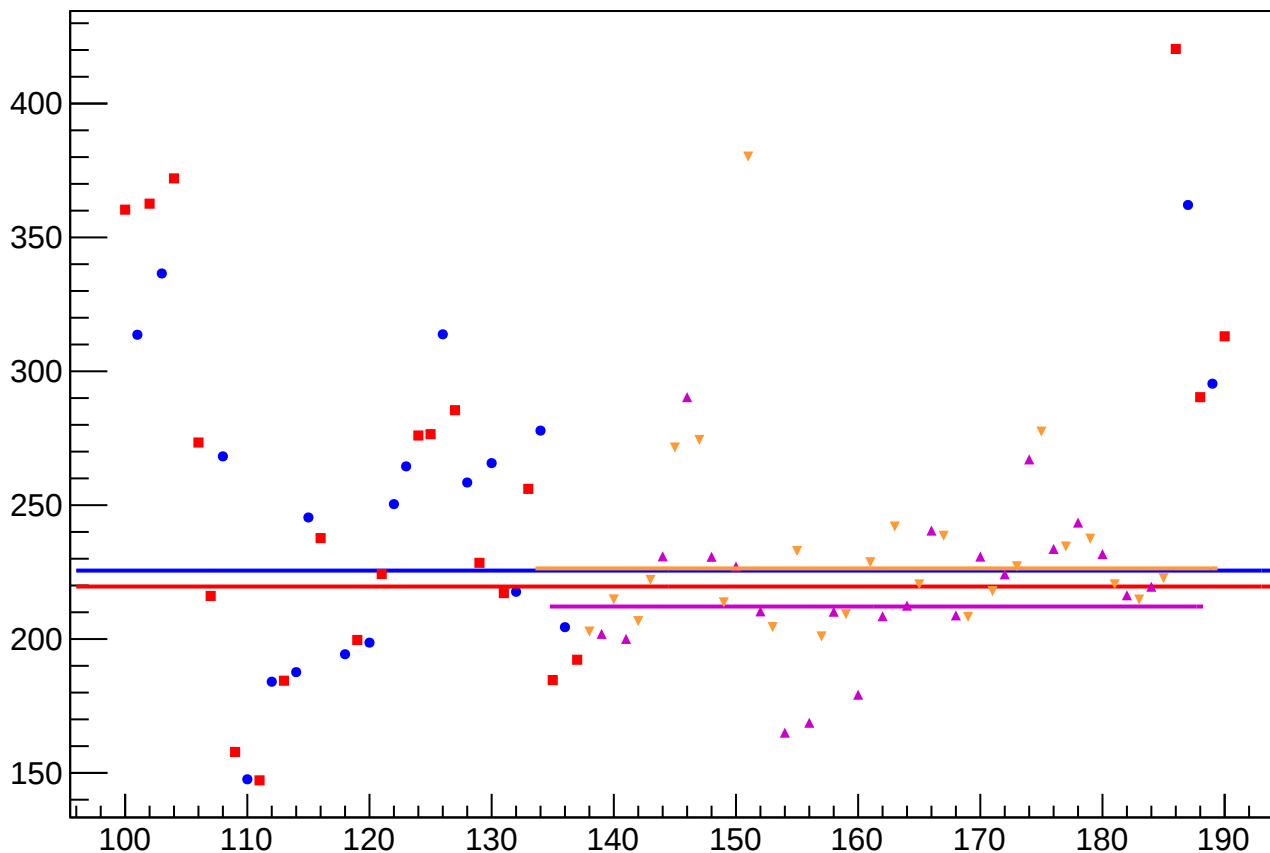
Right: -143.526 ± 58.212 $\chi^2/\text{NDF}: 4021.1/40$

In: -519.336 ± 44.609 $\chi^2/\text{NDF}: 2575.8/41$

Out: 322.507 ± 44.133 $\chi^2/\text{NDF}: 4488.8/46$

All: -93.903 ± 31.374 $\chi^2/\text{NDF}: 7244.6/88$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 225.565 ± 0.062 $\chi^2/\text{NDF}: 740136.5/18$

Left Out: 226.376 ± 0.038 $\chi^2/\text{NDF}: 521770.1/24$

Right Out: 219.613 ± 0.055 $\chi^2/\text{NDF}: 1249641.6/21$

Left In: 212.145 ± 0.037 $\chi^2/\text{NDF}: 591698.6/22$

Left: 219.044 ± 0.026 $\chi^2/\text{NDF}: 1186390.8/47$

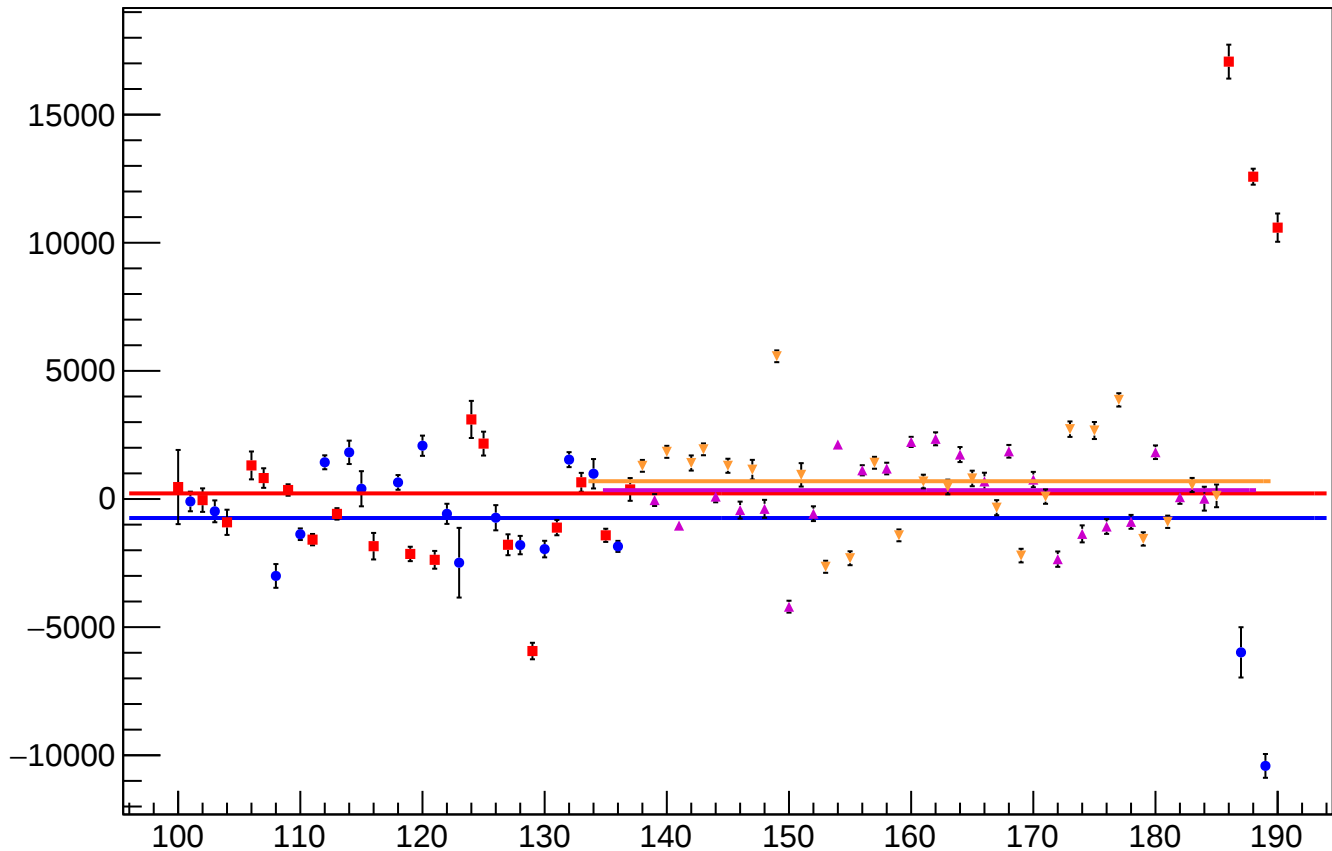
Right: 222.259 ± 0.041 $\chi^2/\text{NDF}: 1994941.1/40$

In: 215.648 ± 0.032 $\chi^2/\text{NDF}: 1366750.4/41$

Out: 224.216 ± 0.031 $\chi^2/\text{NDF}: 1781618.0/46$

All: 219.978 ± 0.022 $\chi^2/\text{NDF}: 3185658.7/88$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -741.598 ± 82.806 χ^2/NDF : 790.5/18

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: 219.013 ± 74.223 χ^2/NDF : 3290.7/21

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

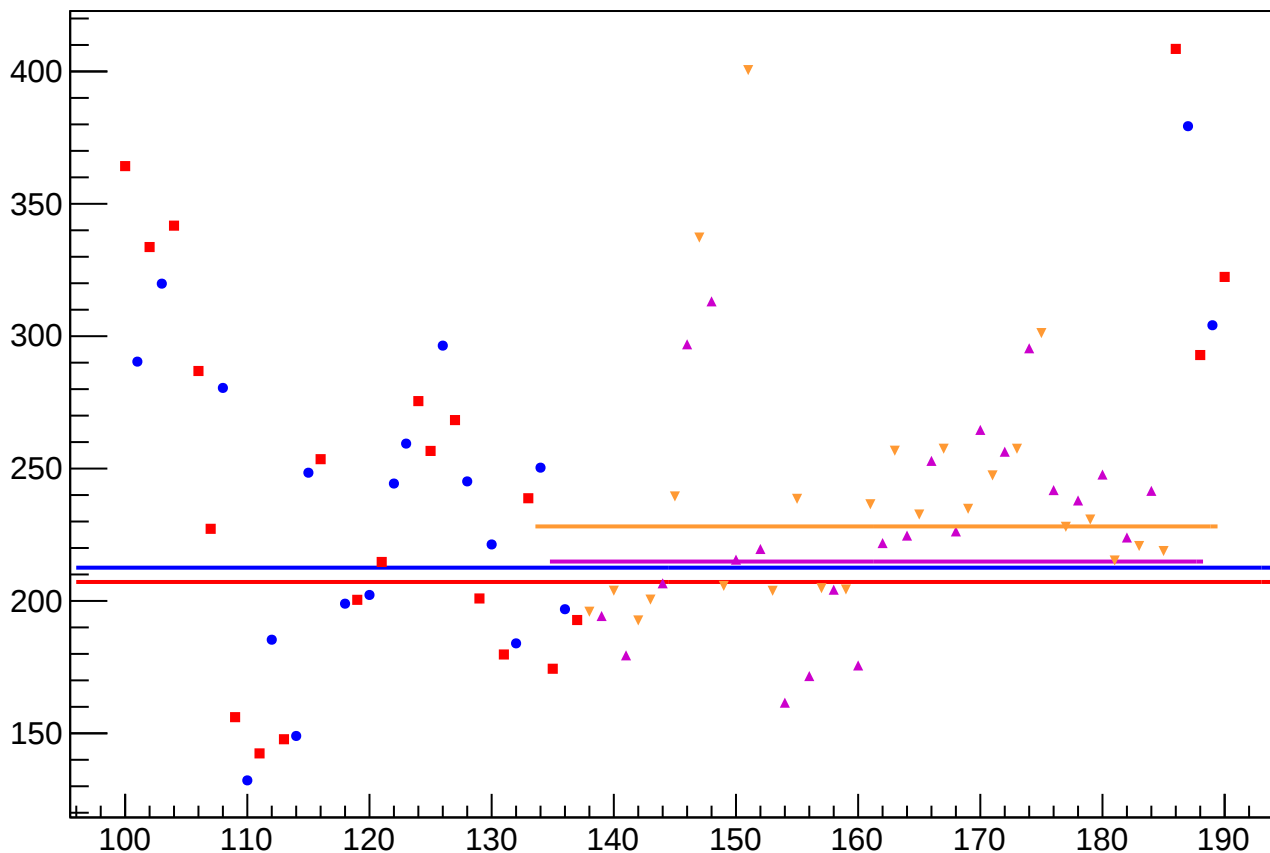
Right: -208.946 ± 55.270 χ^2/NDF : 4155.8/40

In: 29.308 ± 44.612 χ^2/NDF : 1897.6/41

Out: 528.834 ± 43.796 χ^2/NDF : 4739.5/46

All: 283.679 ± 31.253 χ^2/NDF : 6701.0/88

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 212.569 ± 0.059 $\chi^2/\text{NDF}: 839380.2/18$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 207.165 ± 0.052 $\chi^2/\text{NDF}: 1384325.0/21$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

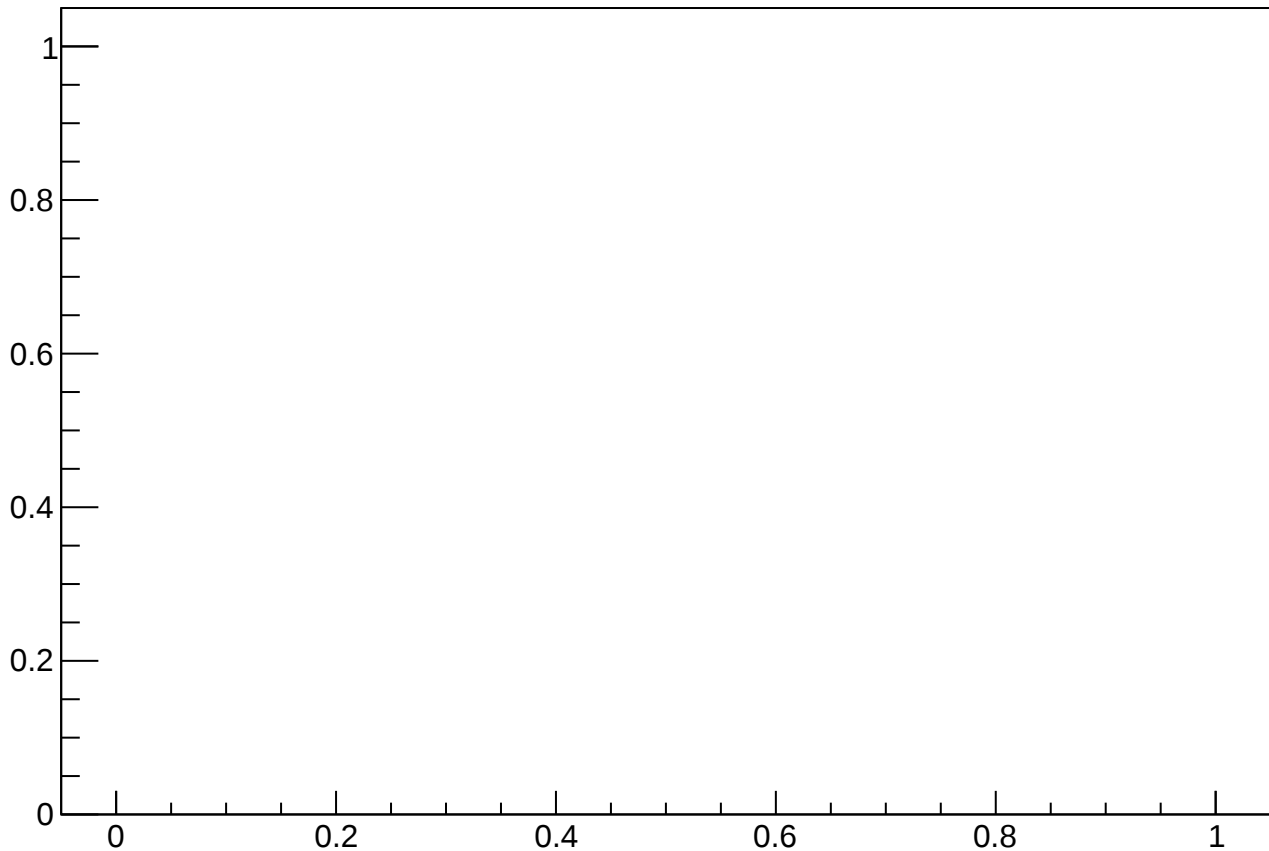
Right: 209.572 ± 0.039 $\chi^2/\text{NDF}: 2228428.5/40$

In: 214.208 ± 0.032 $\chi^2/\text{NDF}: 1877994.0/41$

Out: 220.839 ± 0.031 $\chi^2/\text{NDF}: 2316874.4/46$

All: 217.585 ± 0.022 $\chi^2/\text{NDF}: 4217372.6/88$

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

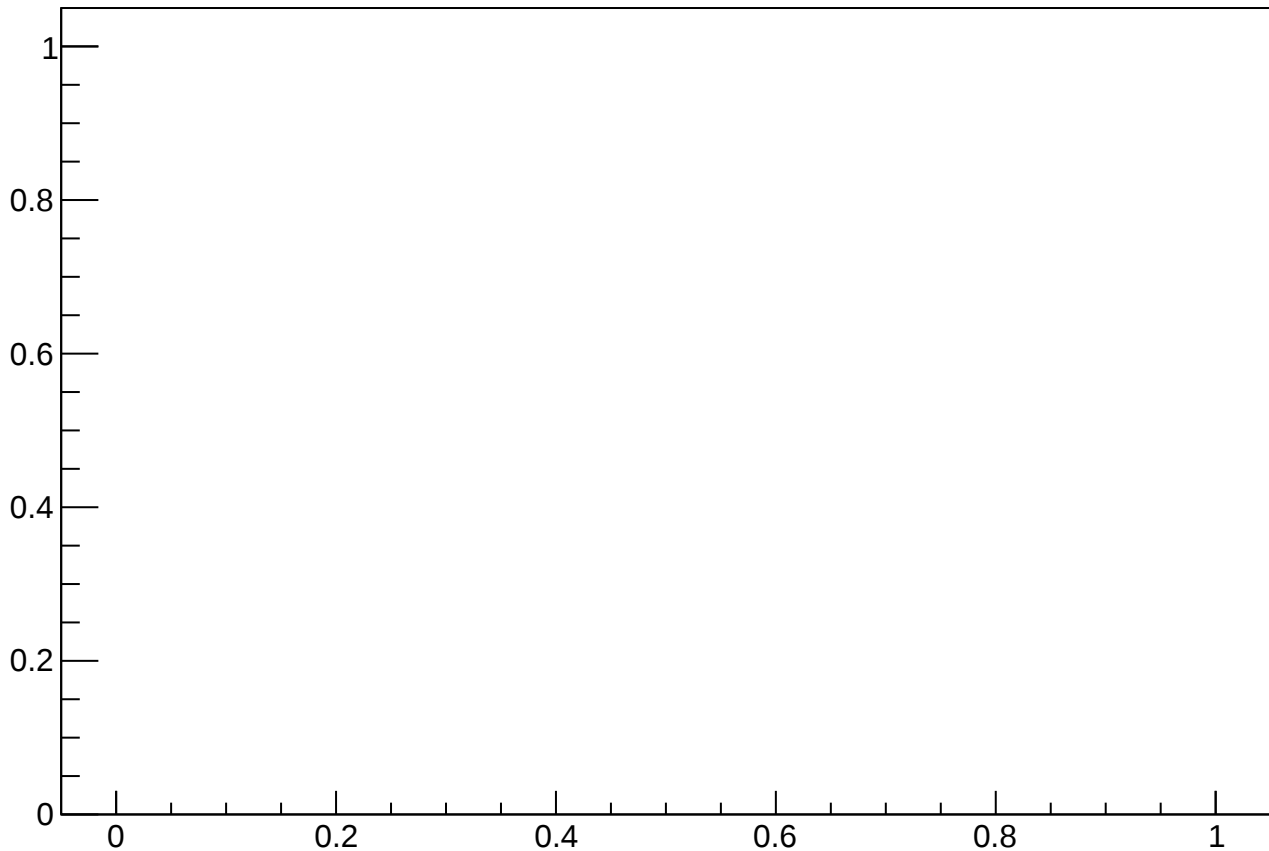
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

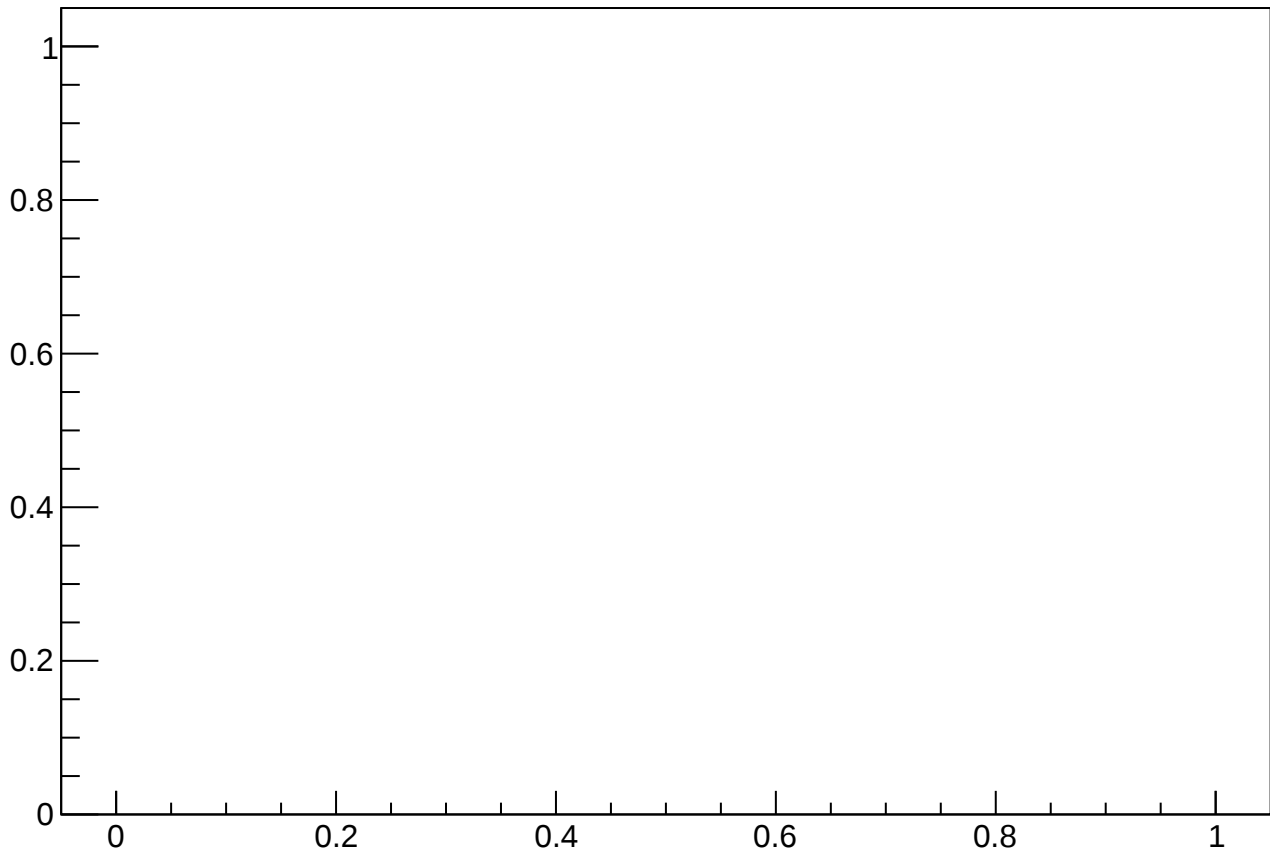
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

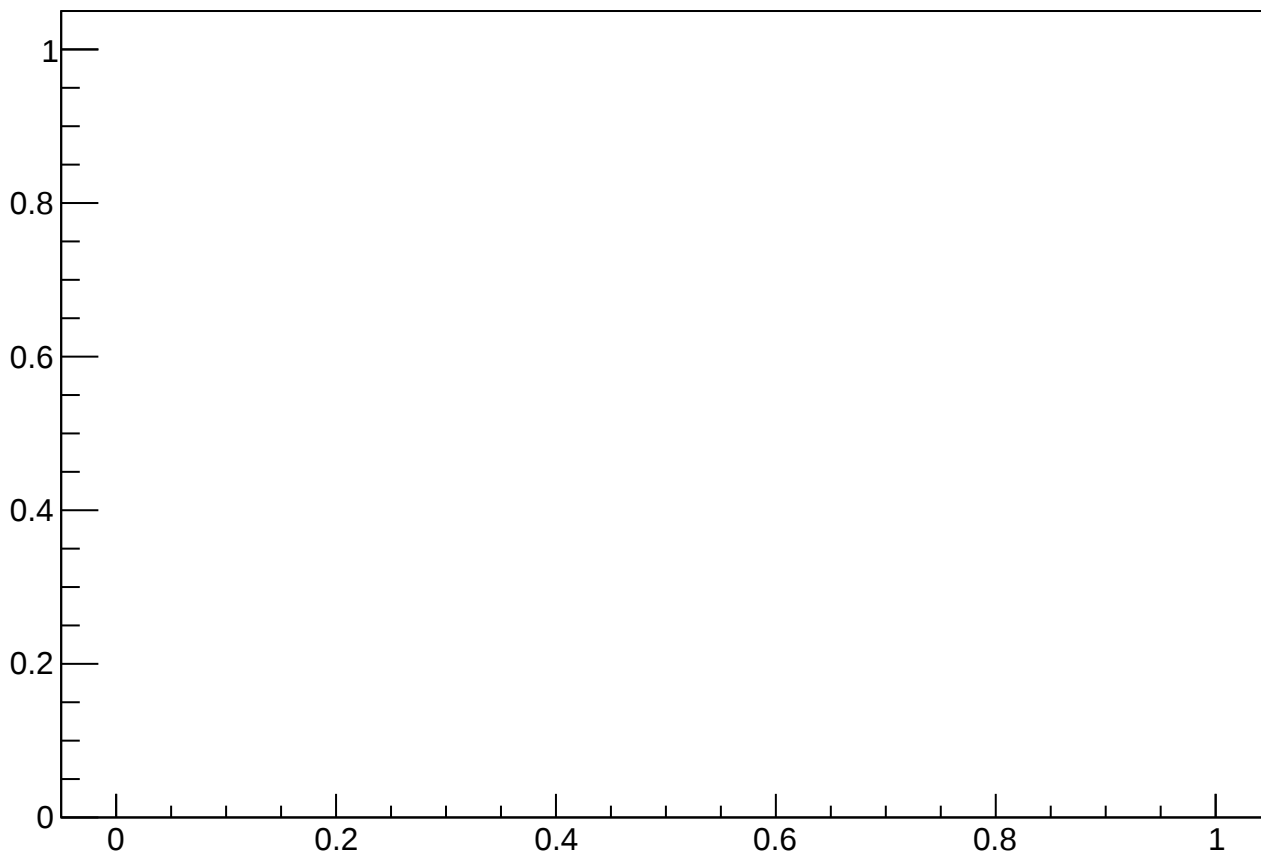
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

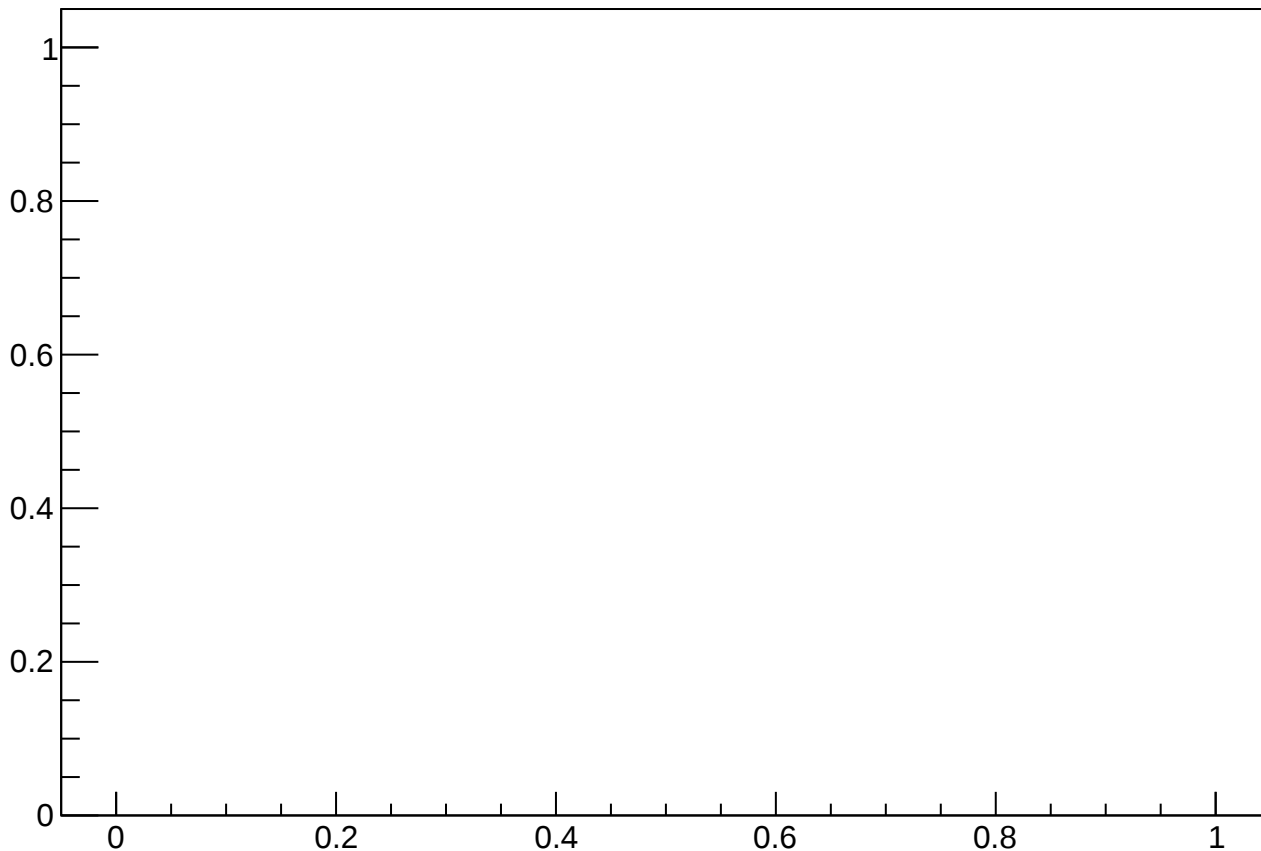
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

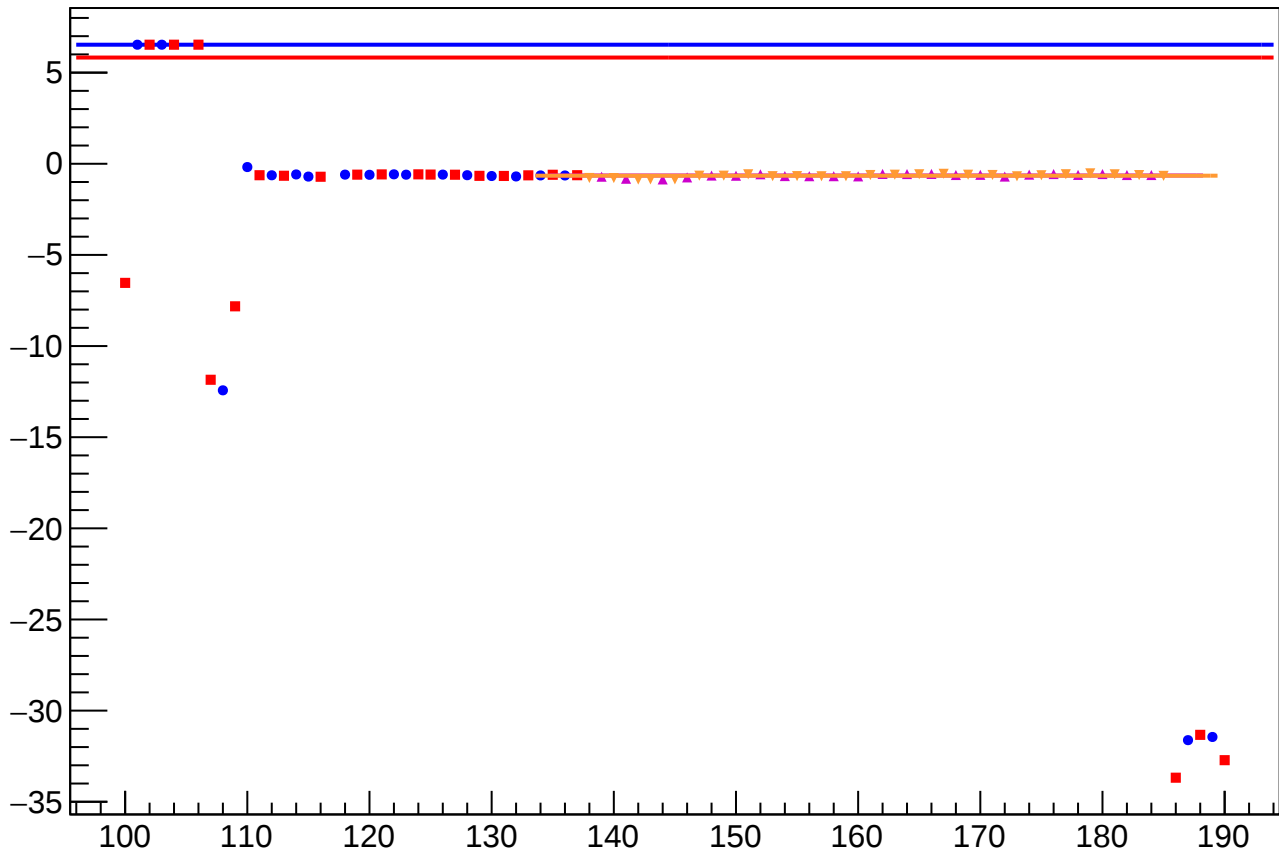
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127660933106.7/18

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962065575714.2/21

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

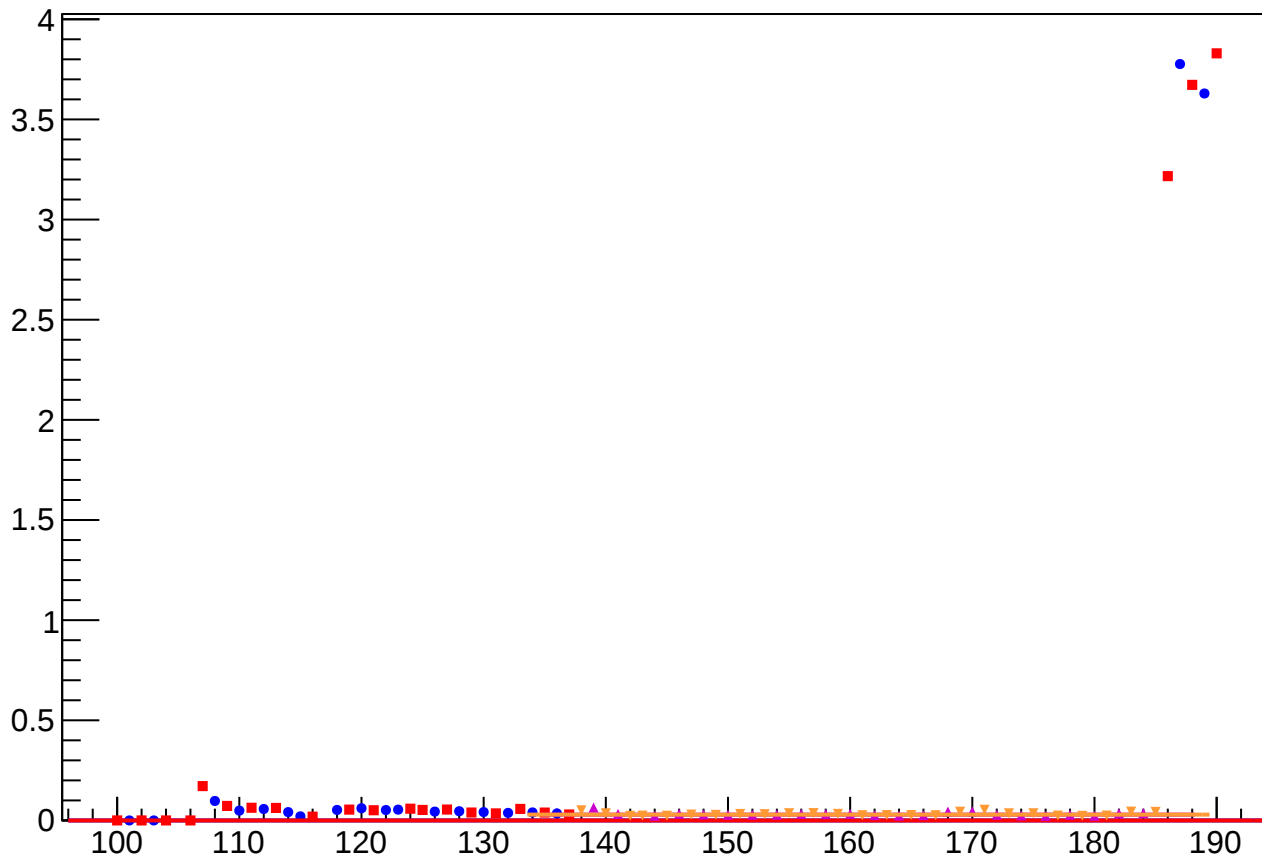
Right: 6.155+/-0.000 χ^2/NDF : 776093691171125.0/48

In: 6.530+/-0.000 χ^2/NDF : 961779539590.2/41

Out: 5.826+/-0.000 χ^2/NDF : 756673082482456.2/42

All: 6.153+/-0.000 χ^2/NDF : 7776271230878.0/95

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9947577.5/18

Left Out: 0.029+/-0.000 χ^2/NDF : 1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12414318.1/21

Left In: 0.029+/-0.000 χ^2/NDF : 1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

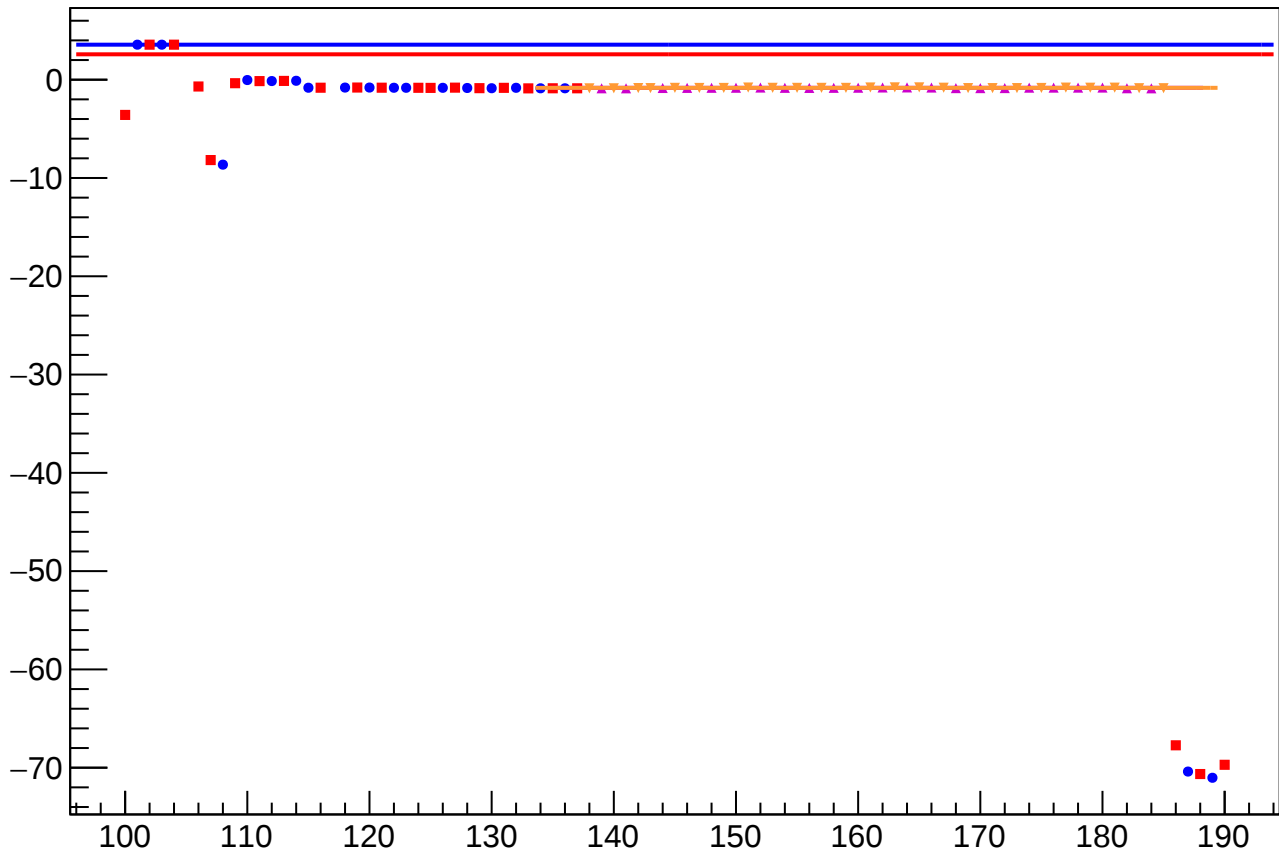
Right: 0.000+/-0.000 χ^2/NDF : 22362143.0/40

In: 0.000+/-0.000 χ^2/NDF : 38125399.3/41

Out: 0.000+/-0.000 χ^2/NDF : 42382374.0/46

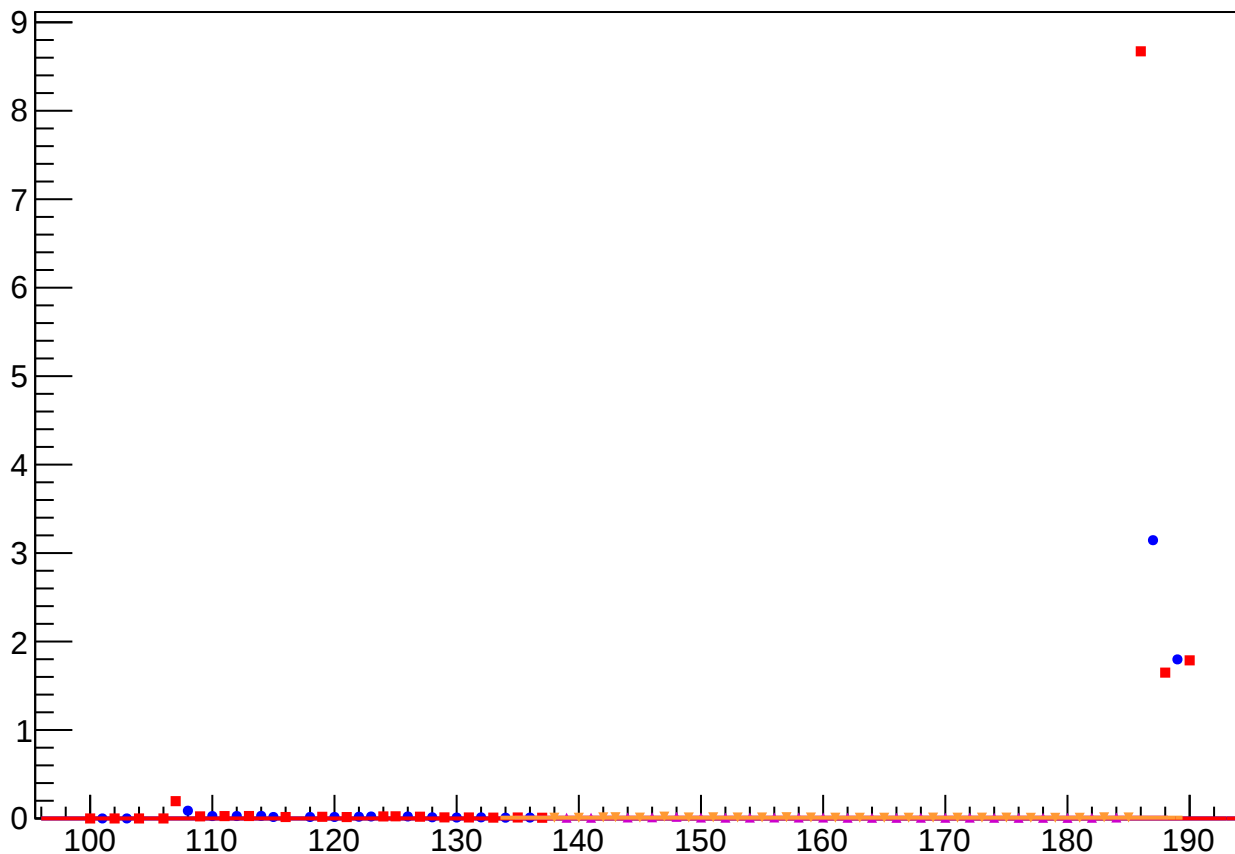
All: 0.000+/-0.000 χ^2/NDF : 80508198.6/88

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 480884326821.9/18	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 : 1382255463891807.7
Right Out: 2.583+/-0.000	χ^2/NDF : 1253503460552551.5/21	In: 3.560+/-0.000	χ^2/NDF : 4161446593922.5/41
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255734362629237.0
		All: 3.038+/-0.000	χ^2/NDF : 13879800274474.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10747935.2/18

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12731021.2/21

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009 ± 0.000 $\chi^2/\text{NDF}: 2503441.1/47$

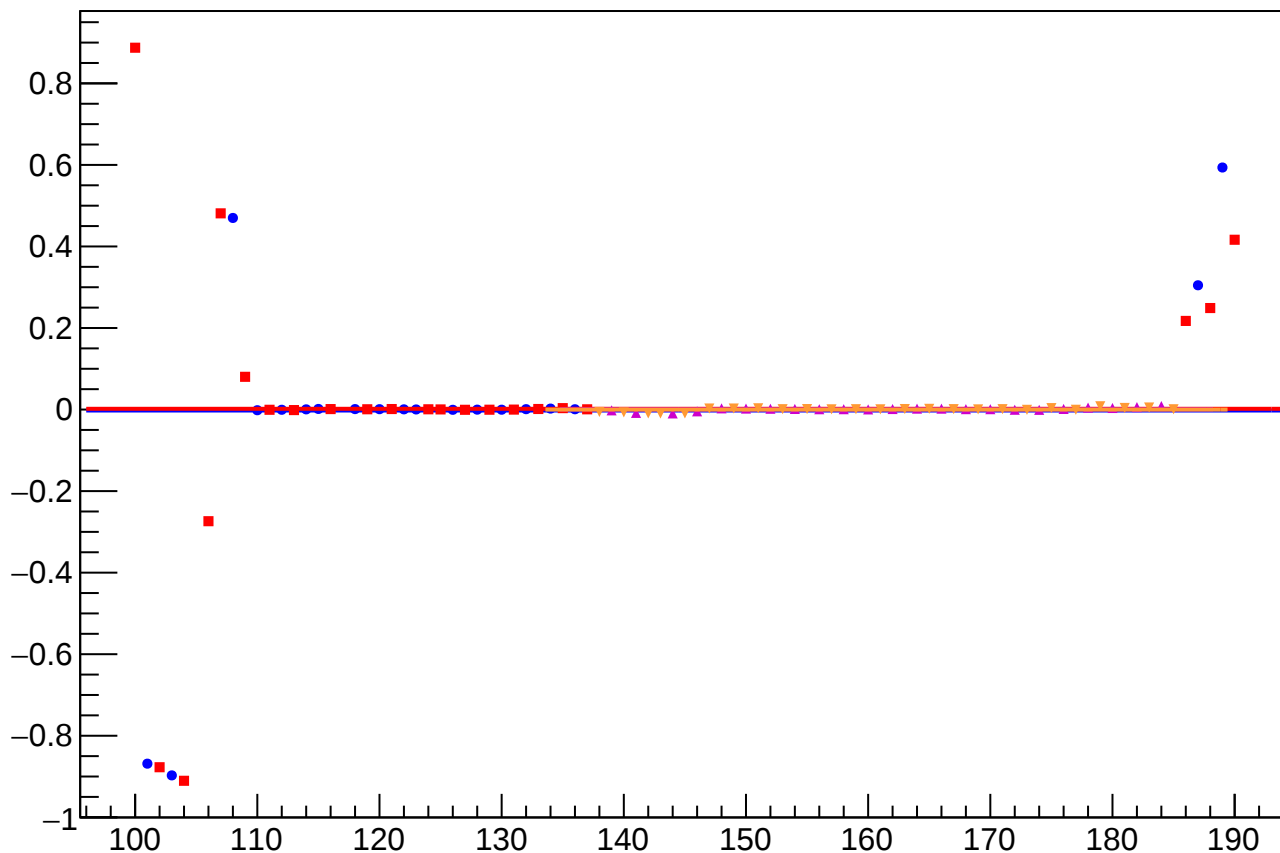
Right: 0.000+/-0.000 χ^2/NDF : 23479229.9/40

In: 0.000+/-0.000 χ^2/NDF :40545169.9/41

Out: 0.000+/-0.000 χ^2/NDF :44249248.1/46

All: 0.000+/-0.000 χ^2/NDF : 84795195.8/88

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000 $\chi^2/\text{NDF}: 9794978081.0/18$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 151559332.0/24$

Right Out: 0.002 ± 0.000 $\chi^2/\text{NDF}: 3041391361.7/21$

Left In: 0.001 ± 0.000 $\chi^2/\text{NDF}: 101468517.6/22$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 254489625.0/47$

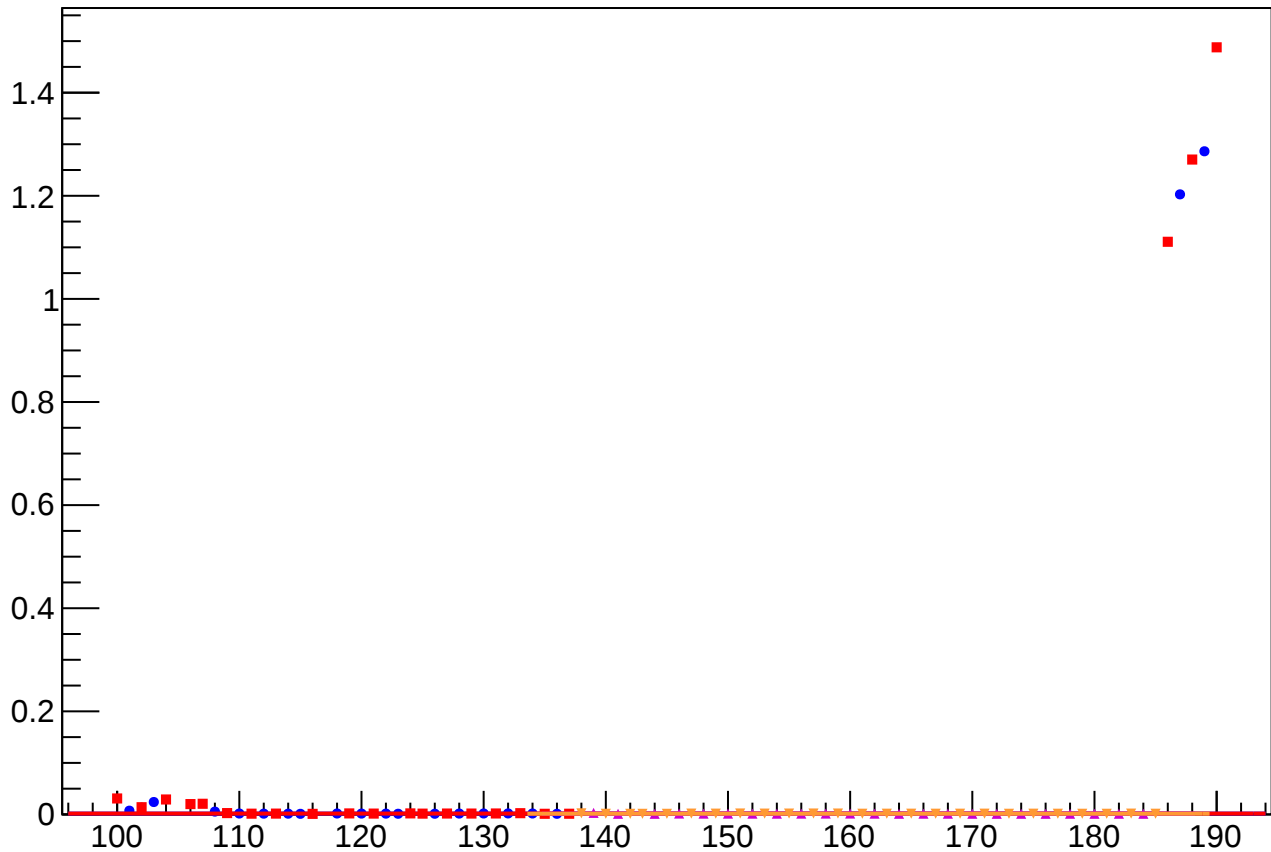
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 12850515069.6/40$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 9907893705.9/41$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3197622497.3/46$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13105887645.8/88$

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3008112.8/18

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6091804.9/21

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

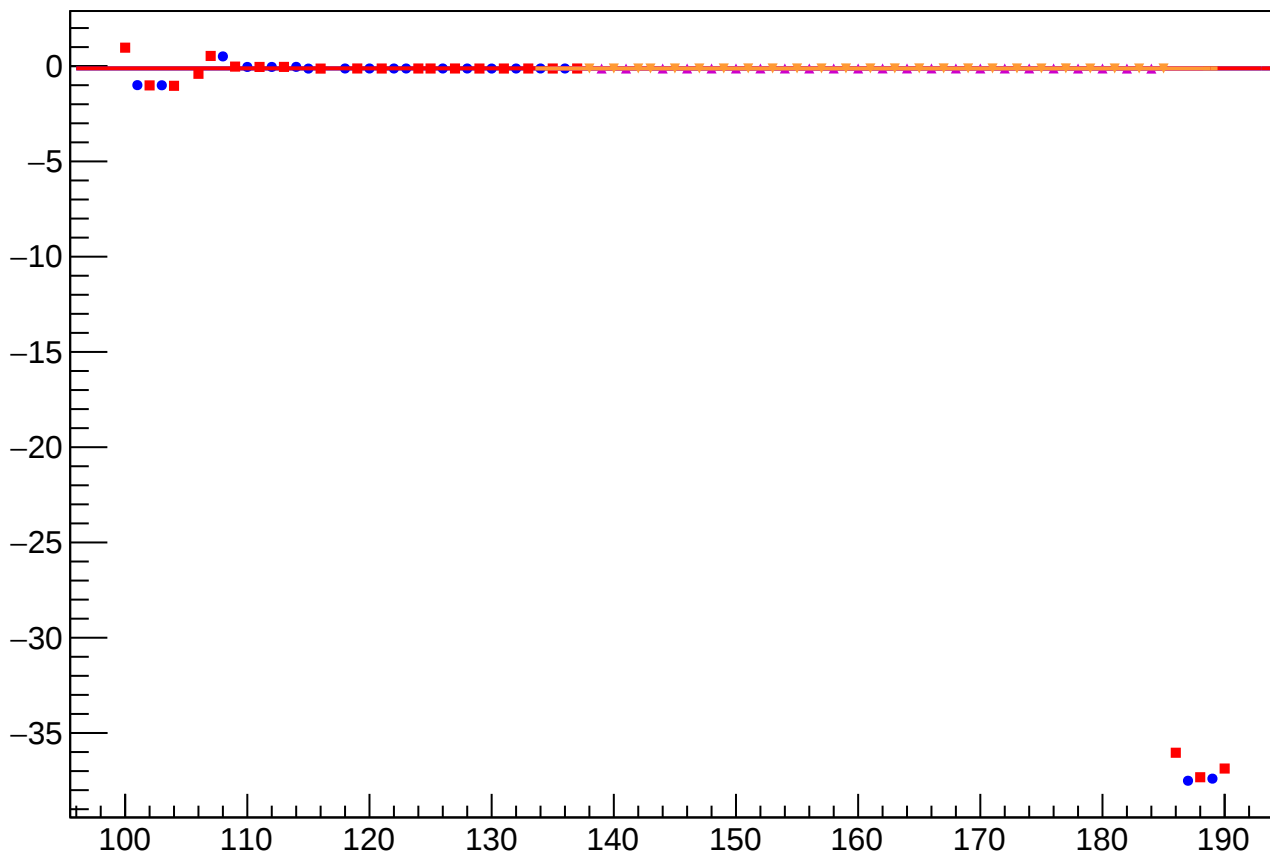
Right: 0.002+/-0.000 χ^2/NDF : 9107866.9/40

In: 0.002+/-0.000 χ^2/NDF : 3718834.1/41

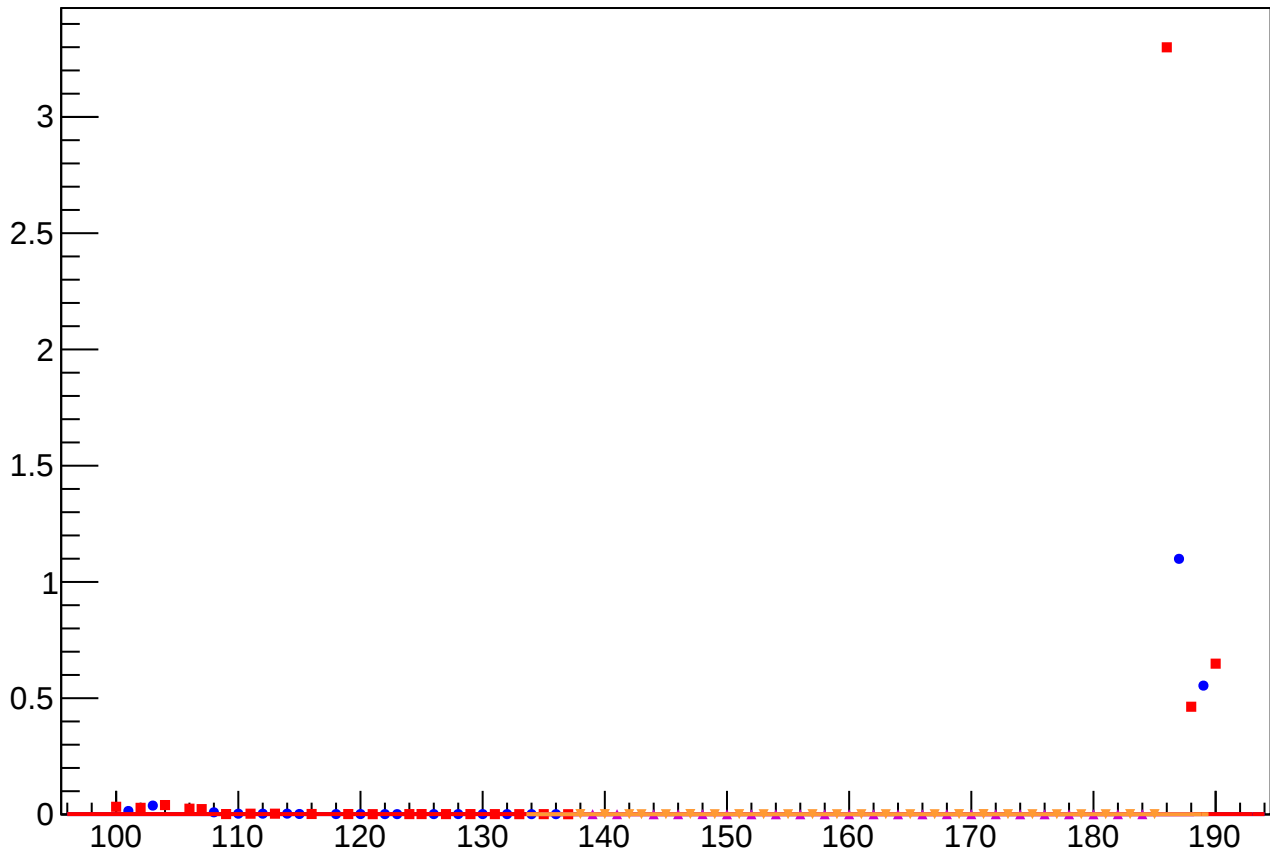
Out: 0.002+/-0.000 χ^2/NDF : 6764680.0/46

All: 0.002+/-0.000 χ^2/NDF : 10484138.3/88

yield_cav4cY_mean vs Slug, Sign Corrected



yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3953840.1/18

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 6533736.7/21

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

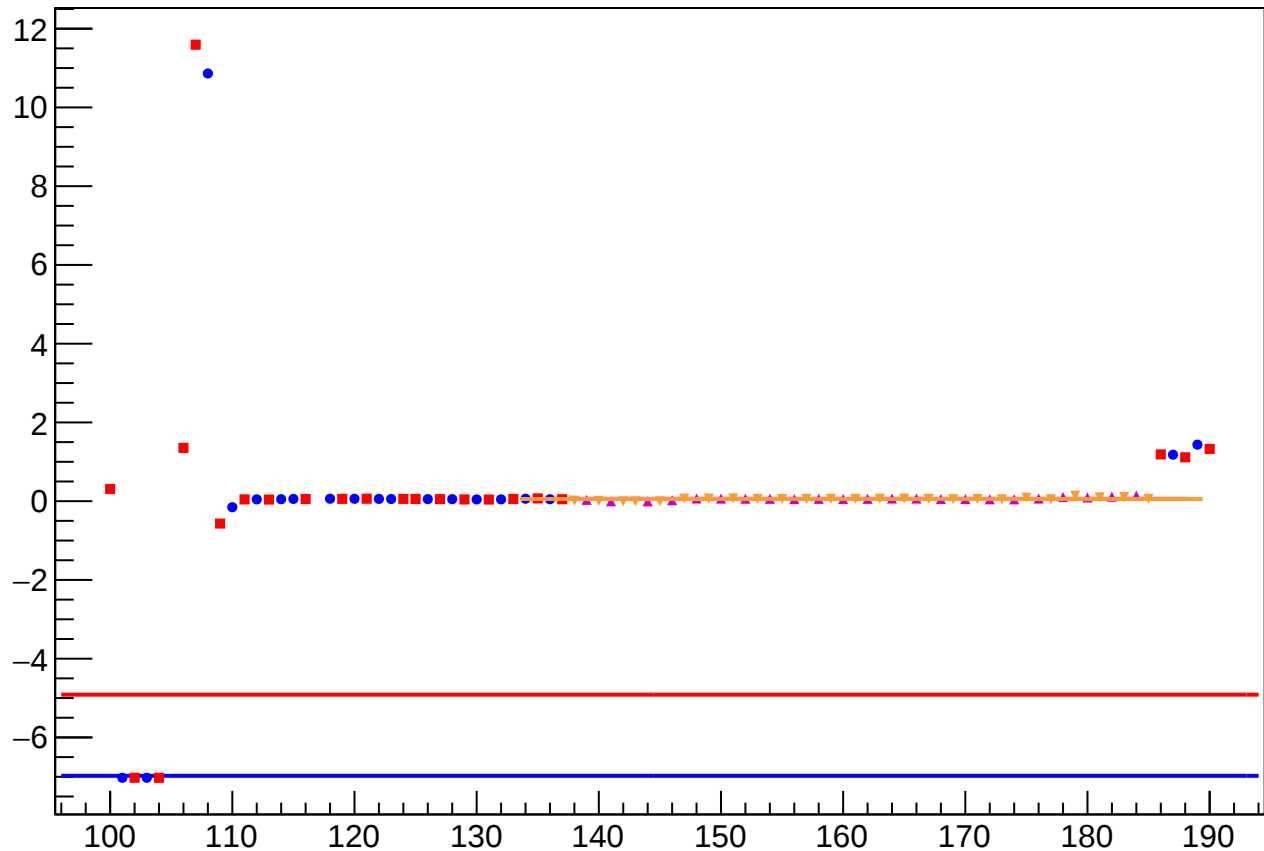
Right: 0.002+/-0.000 χ^2/NDF : 10487614.7/40

In: 0.001+/-0.000 χ^2/NDF :6045723.1/41

Out: 0.001+/-0.000 χ^2/NDF :9042672.5/46

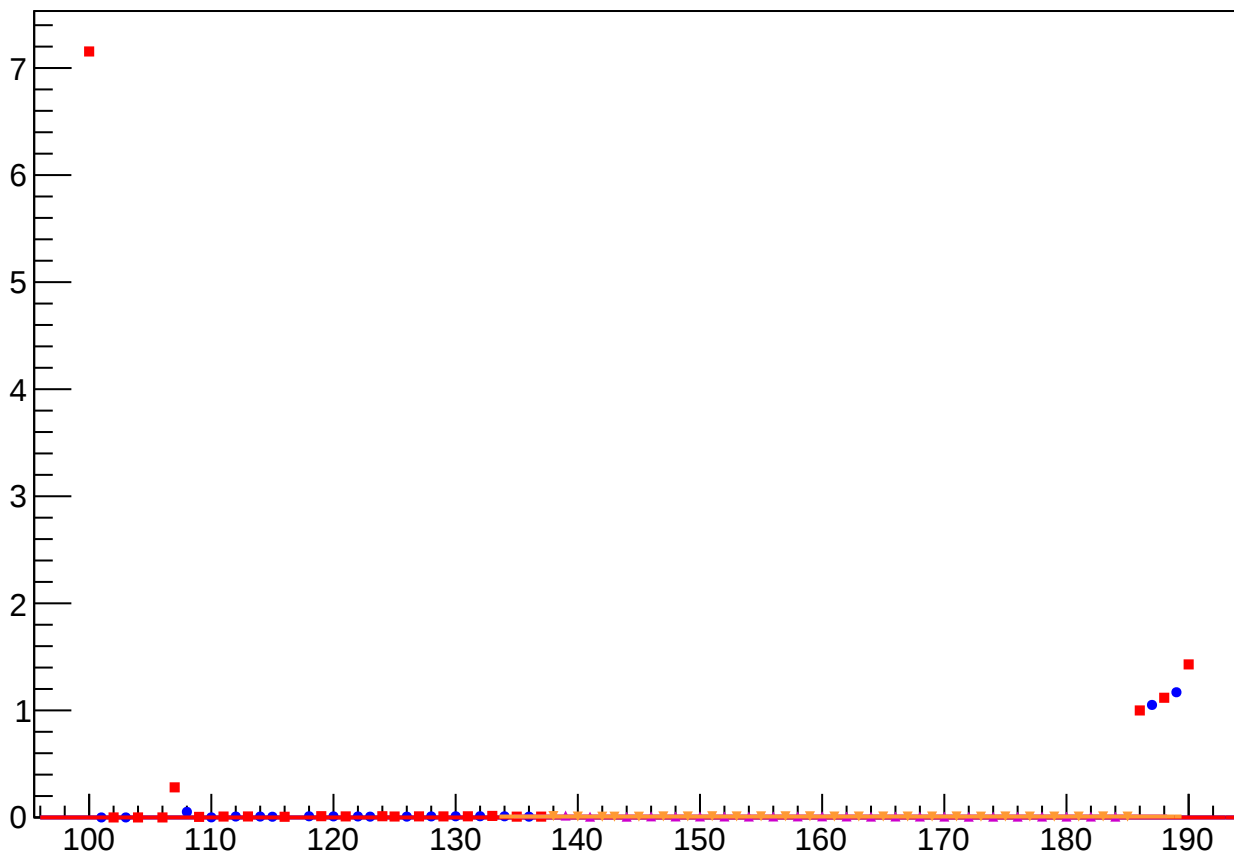
All: 0.001+/-0.000 χ^2/NDF : 15090504.6/88

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8762478494975.9/18
 Left Out: 0.055+/-0.000 χ^2/NDF : 243733184.3/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365348578006377.2/21
 Left In: 0.059+/-0.000 χ^2/NDF : 178713649.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423872259.5/47
 Right: -5.900+/-0.000 χ^2/NDF : 430303272895958.5
 In: -6.925+/-0.000 χ^2/NDF : 17605007076812.4/41
 Out: -4.879+/-0.000 χ^2/NDF : 370175265686335.1
 All: -5.858+/-0.000 χ^2/NDF : 4435812395065

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9316884.8/18

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11832902.2/21

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

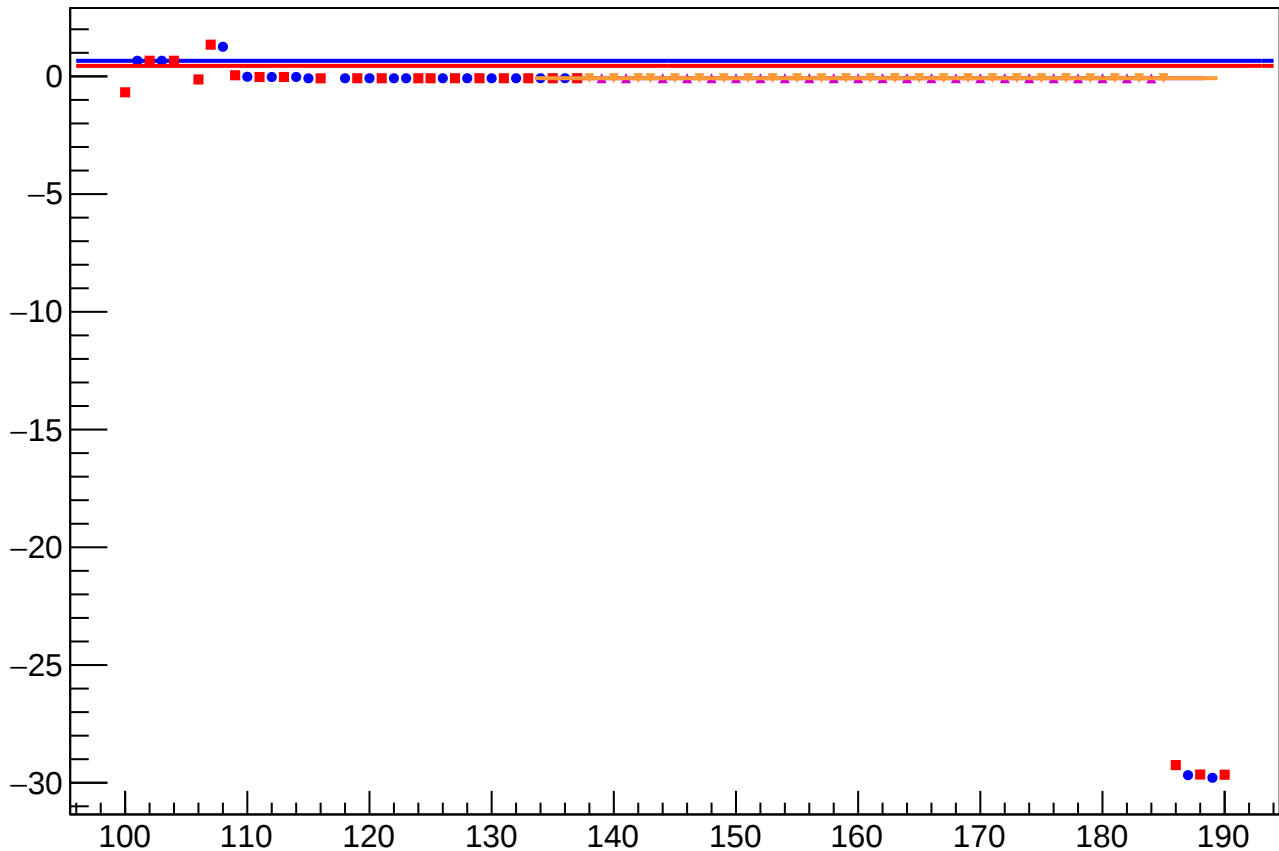
Right: 0.000+/-0.000 χ^2/NDF : 21150089.8/40

In: 0.000+/-0.000 χ^2/NDF : 36954399.8/41

Out: 0.000+/-0.000 χ^2/NDF : 40861689.2/46

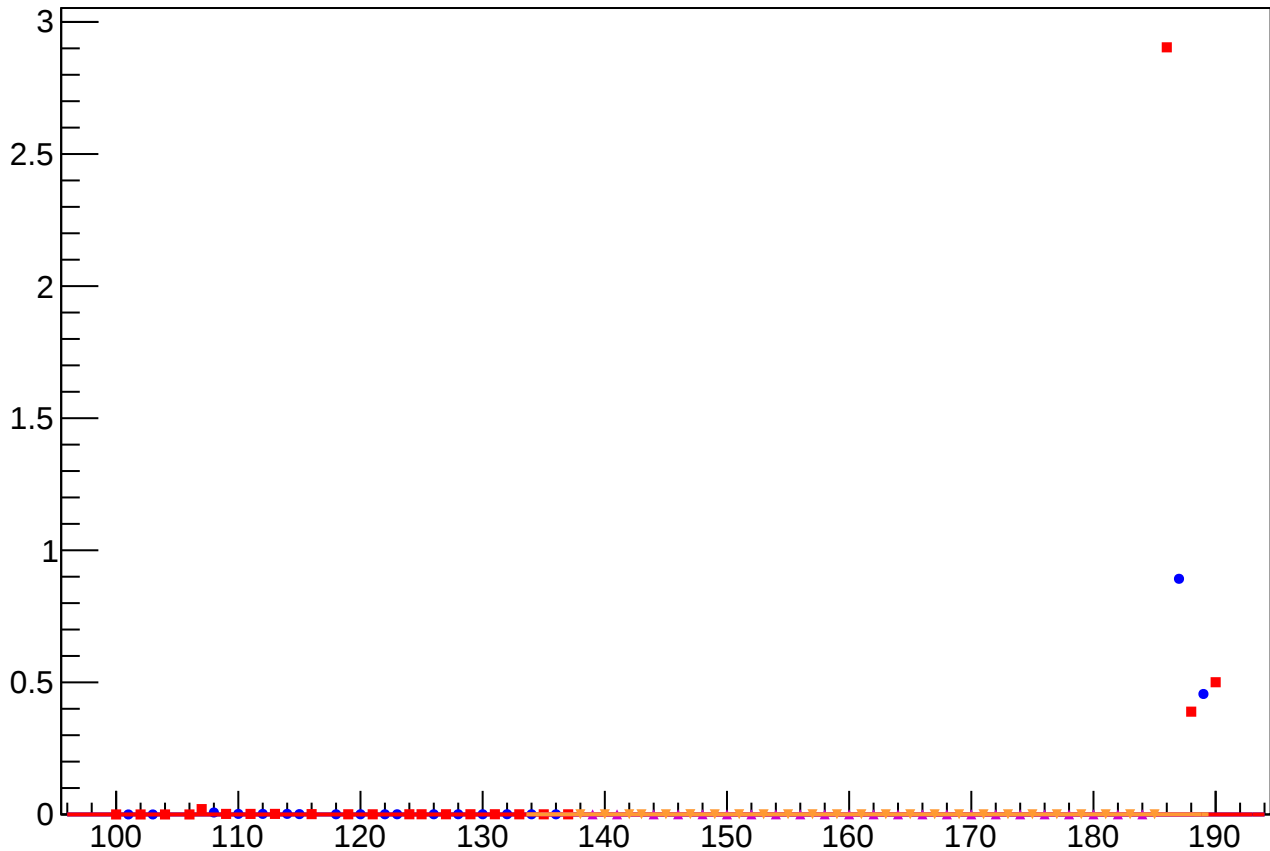
All: 0.000+/-0.000 χ^2/NDF : 77816574.3/88

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5587089923121.8/18	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 : 473939304616398.3
Right Out: 0.446+/-0.000	χ^2/NDF : 405422974901247.0/21	In: 0.647+/-0.000	χ^2/NDF : 33847079583167.4/41
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420617577783761.2/4
		All: 0.537+/-0.000	χ^2/NDF : 51598935695343

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10914076.6/18

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12481201.1/21

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

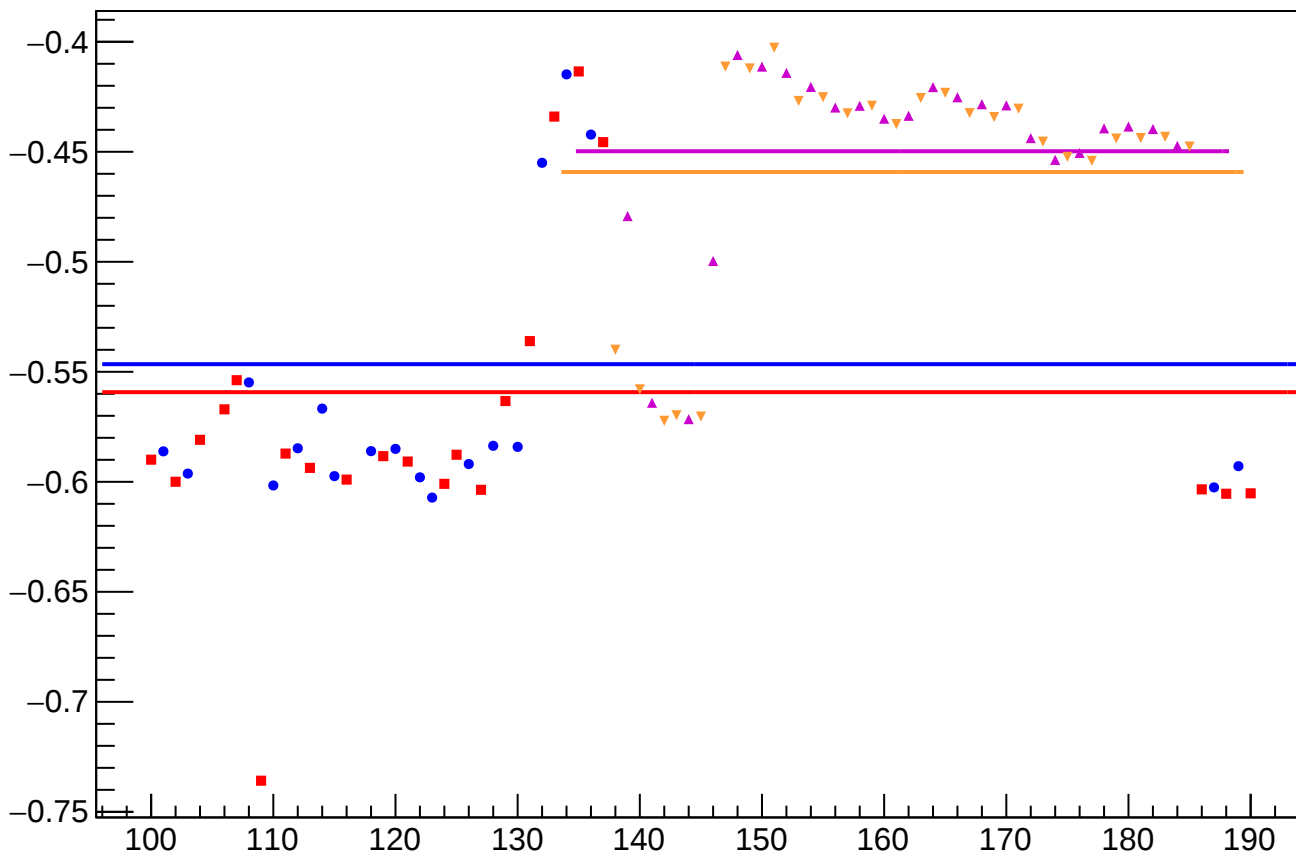
Right: 0.000+/-0.000 χ^2/NDF : 23395284.0/40

In: 0.000+/-0.000 χ^2/NDF : 41893076.0/41

Out: 0.000+/-0.000 χ^2/NDF : 45195678.4/46

All: 0.000+/-0.000 χ^2/NDF : 87089152.4/88

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.547+/-0.000 χ^2/NDF : 46933714.9/18

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.559+/-0.000 χ^2/NDF : 65158325.5/21

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

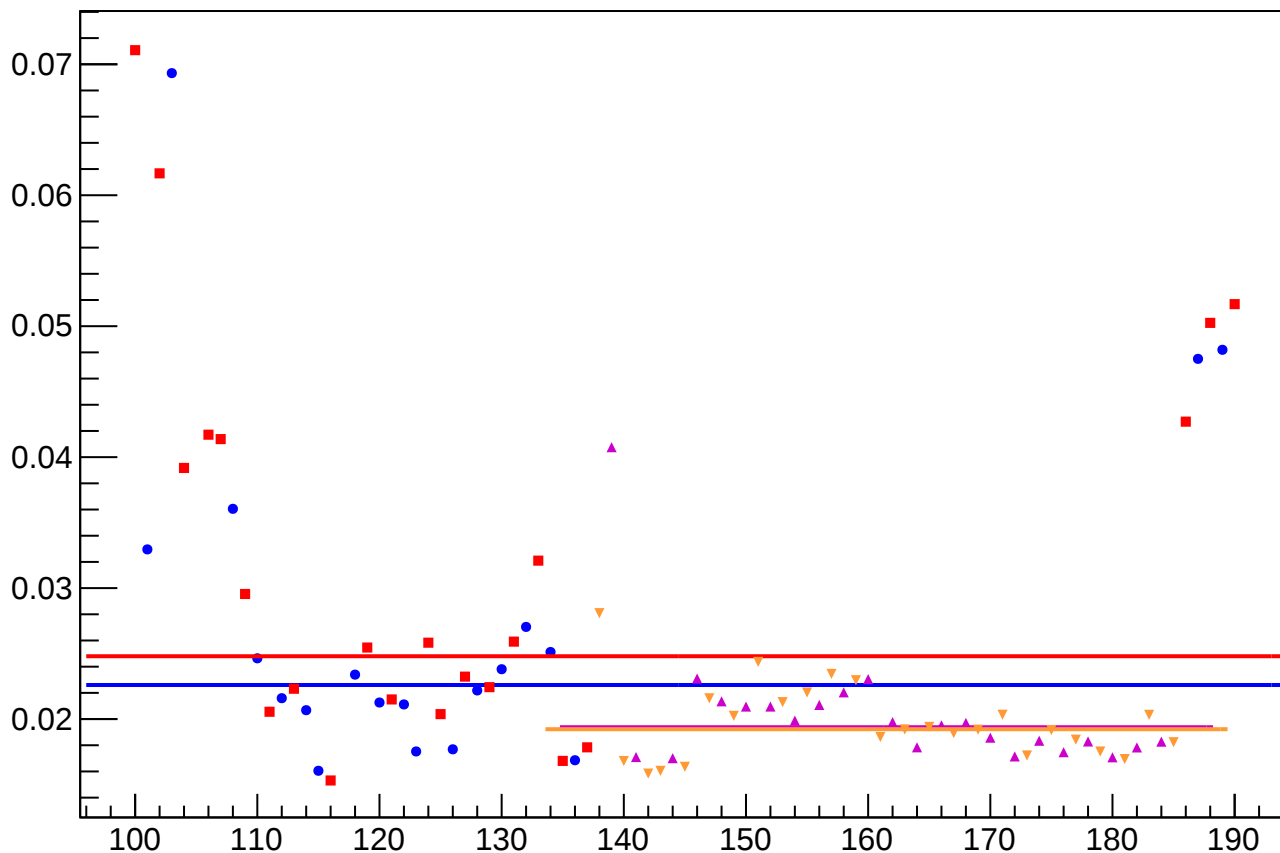
Right: -0.553+/-0.000 χ^2/NDF : 112946523.4/40

In: -0.471+/-0.000 χ^2/NDF : 200531752.8/41

Out: -0.480+/-0.000 χ^2/NDF : 262211229.7/46

All: -0.476+/-0.000 χ^2/NDF : 464617726.6/88

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 1268842.7/18

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.025+/-0.000 χ^2/NDF : 1938823.0/21

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

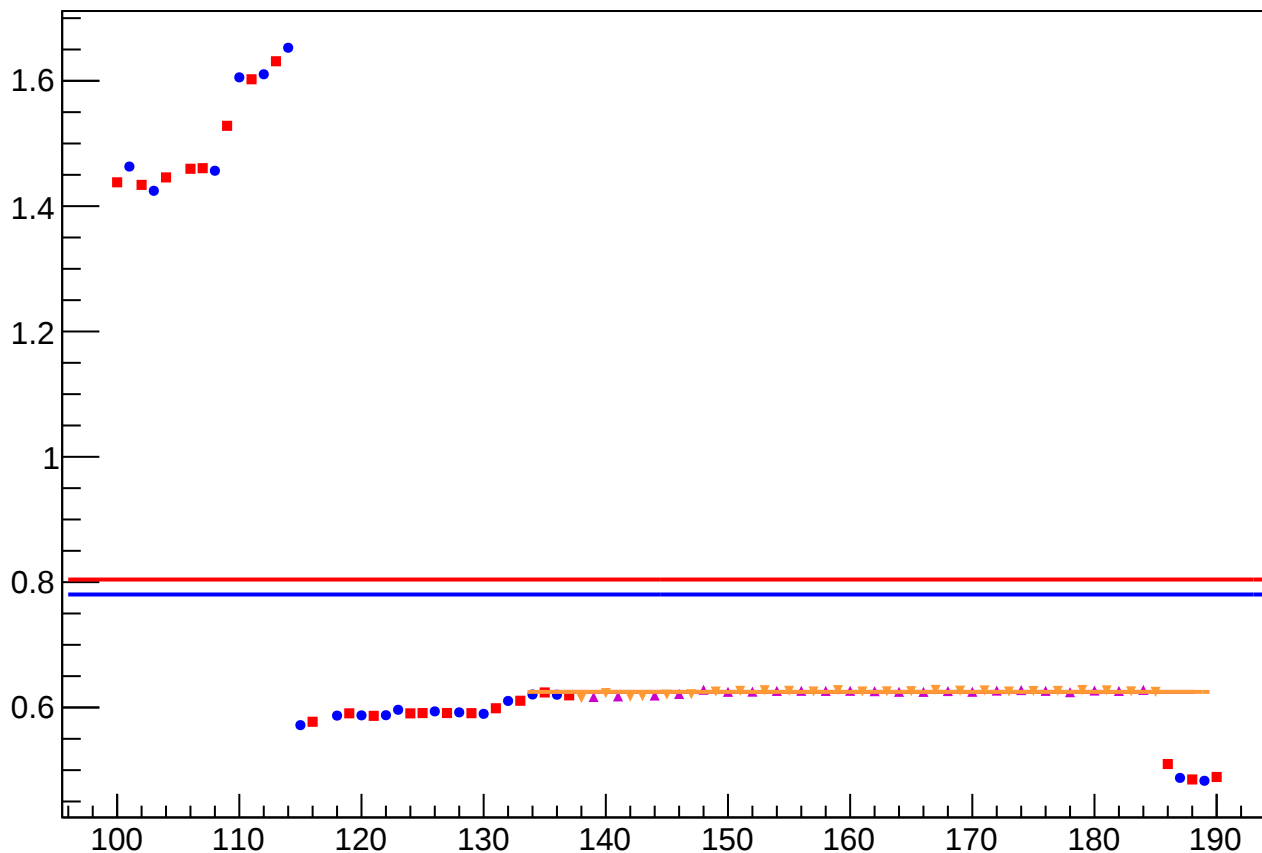
Right: 0.024+/-0.000 χ^2/NDF : 3258513.3/40

In: 0.020+/-0.000 χ^2/NDF : 2096862.4/41

Out: 0.020+/-0.000 χ^2/NDF : 2956079.4/46

All: 0.020+/-0.000 χ^2/NDF : 5056996.3/88

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.780+/-0.000 χ^2/NDF : 3647532295.0/18

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.804+/-0.000 χ^2/NDF : 4442700201.2/21

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

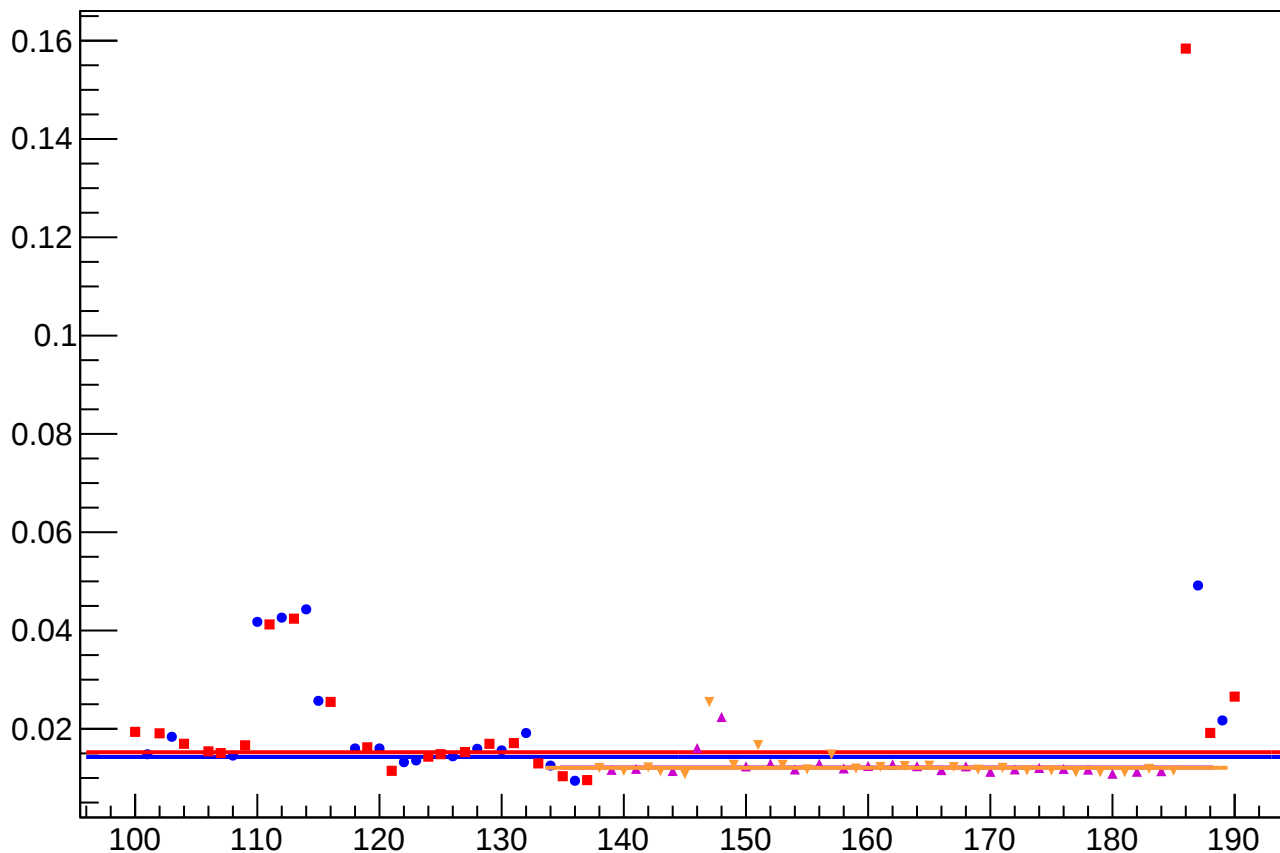
Right: 0.792+/-0.000 χ^2/NDF : 8098767756.8/40

In: 0.657+/-0.000 χ^2/NDF :4214143008.6/41

Out: 0.661+/-0.000 χ^2/NDF :5227012971.6/46

All: 0.659+/-0.000 χ^2/NDF : 9442470591.9/88

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1626148.0/18

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2032480.7/21

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

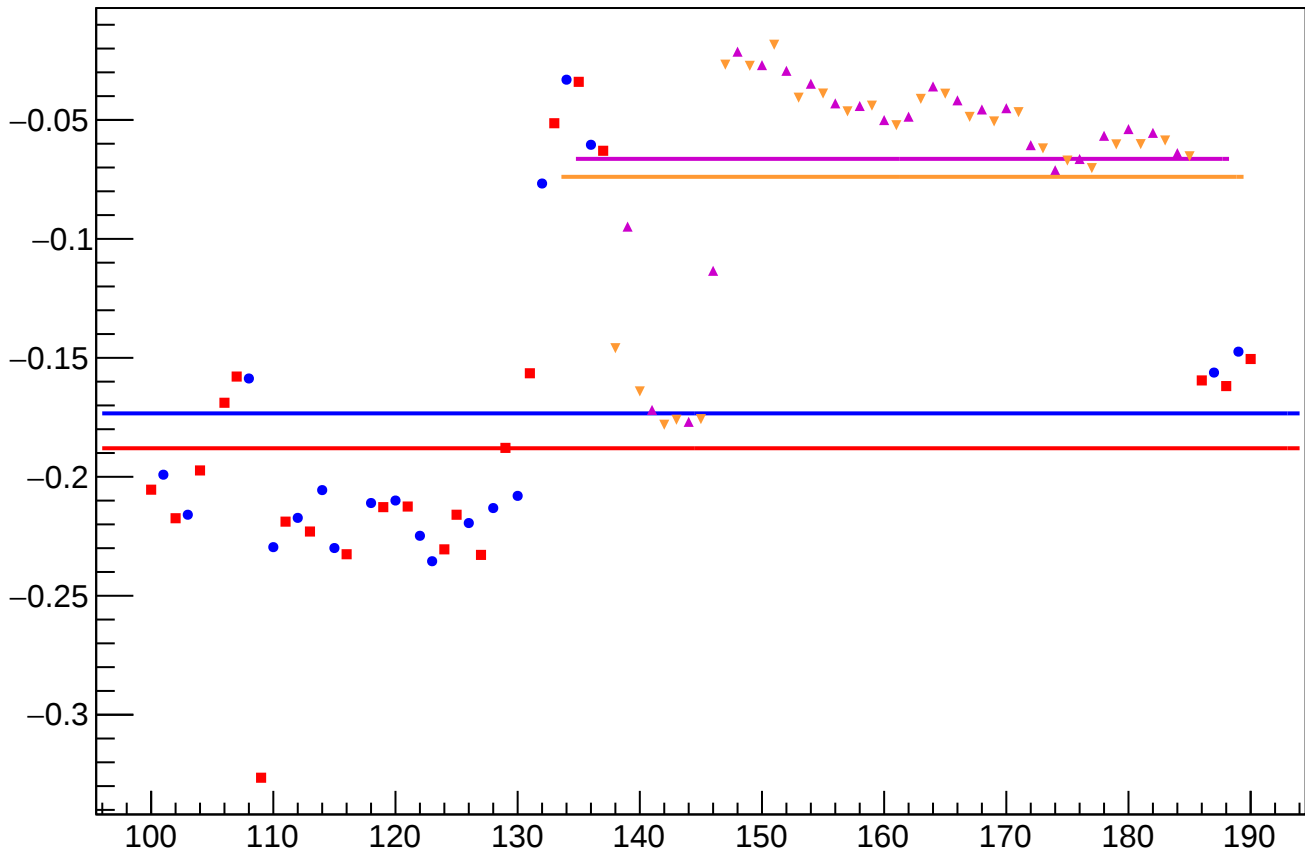
Right: 0.015+/-0.000 χ^2/NDF : 3686518.1/40

In: 0.013+/-0.000 χ^2/NDF : 2327325.6/41

Out: 0.013+/-0.000 χ^2/NDF : 3176695.5/46

All: 0.013+/-0.000 χ^2/NDF : 5506712.8/88

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.173+/-0.000 χ^2/NDF : 66953093.3/18

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.188+/-0.000 χ^2/NDF : 81938371.5/21

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

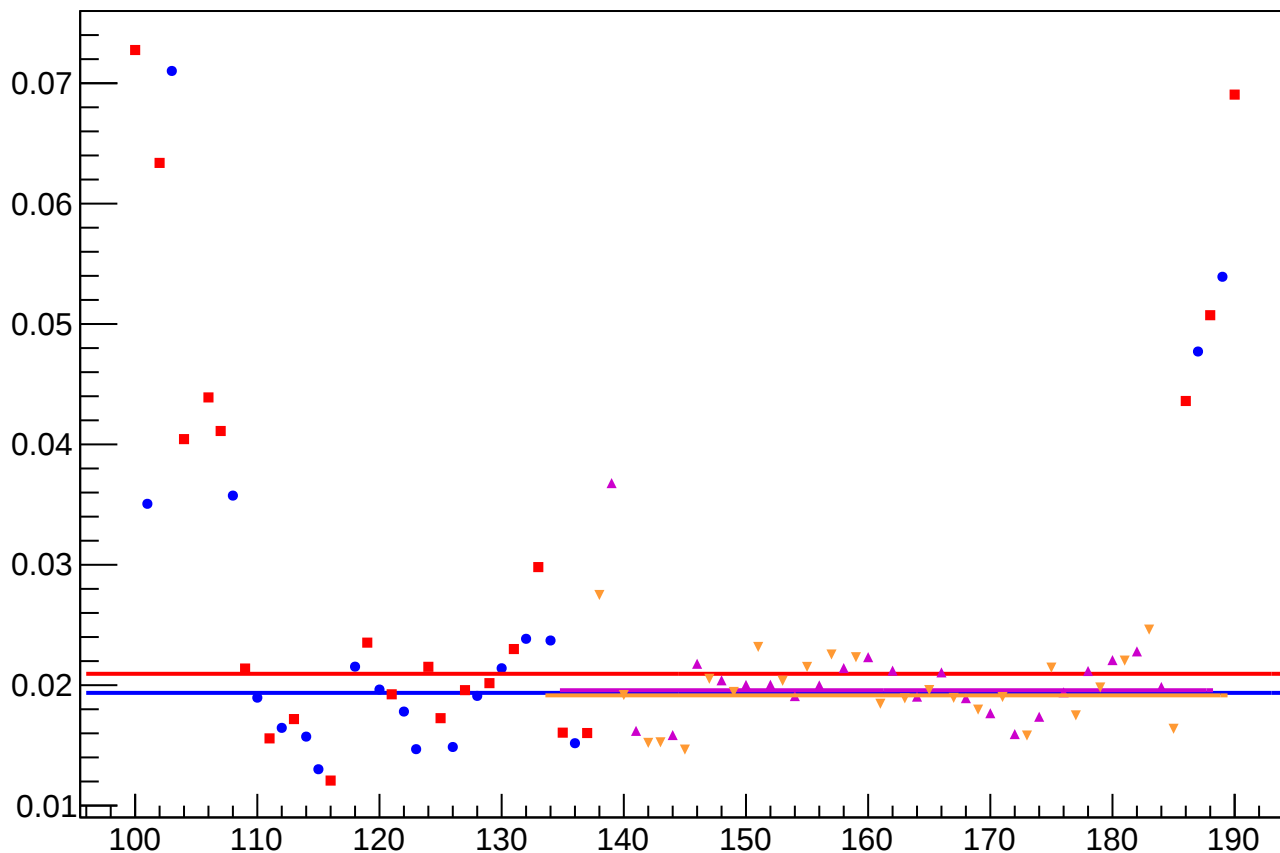
Right: -0.181+/-0.000 χ^2/NDF : 150395964.9/40

In: -0.096+/-0.000 χ^2/NDF : 260065866.7/41

Out: -0.103+/-0.000 χ^2/NDF : 325688206.4/46

All: -0.099+/-0.000 χ^2/NDF : 587172273.7/88

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1648294.6/18

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2606567.3/21

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

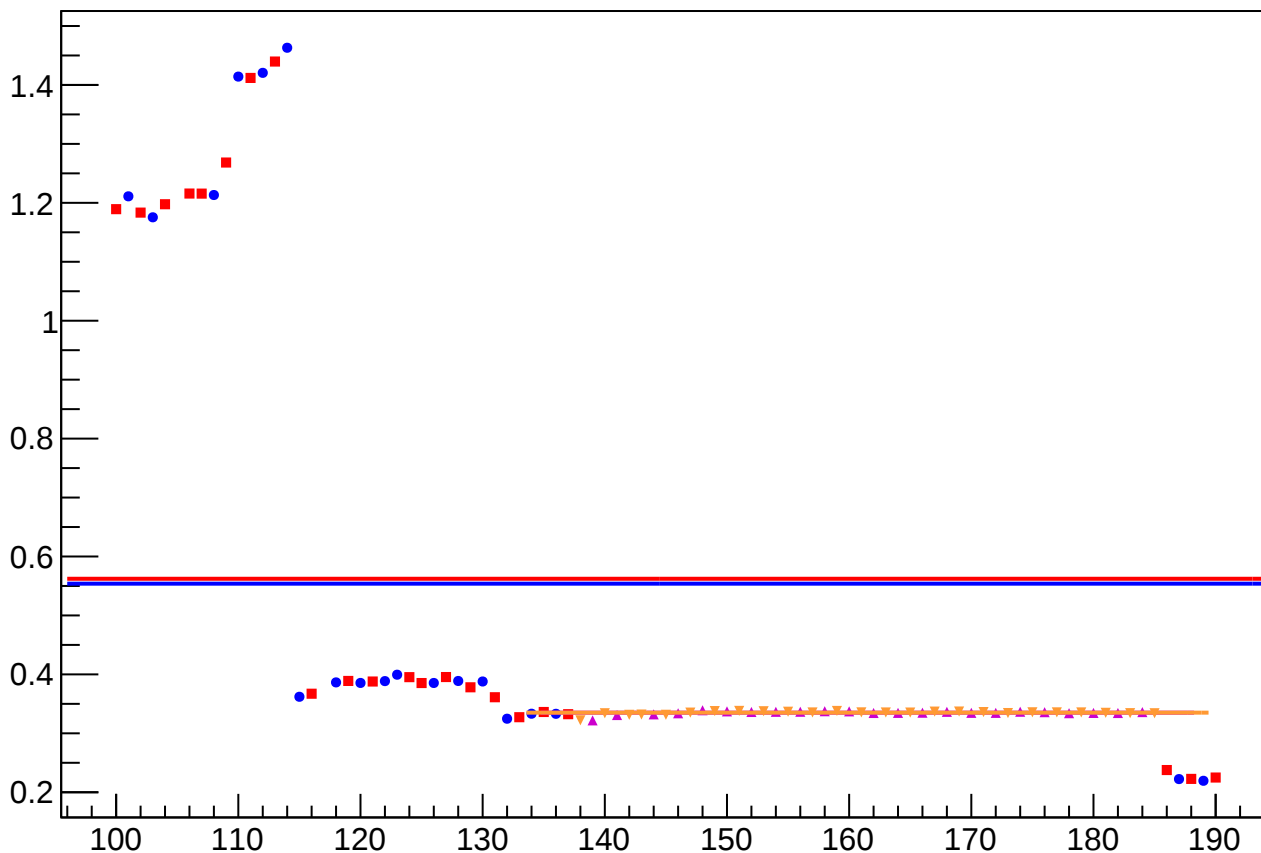
Right: 0.020+/-0.000 χ^2/NDF : 4290019.7/40

In: 0.020+/-0.000 χ^2/NDF : 2300603.7/41

Out: 0.020+/-0.000 χ^2/NDF : 3314548.3/46

All: 0.020+/-0.000 χ^2/NDF : 5615562.8/88

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.554+/-0.000 χ^2/NDF : 5191614530.6/18

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.562+/-0.000 χ^2/NDF : 6144688042.1/21

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

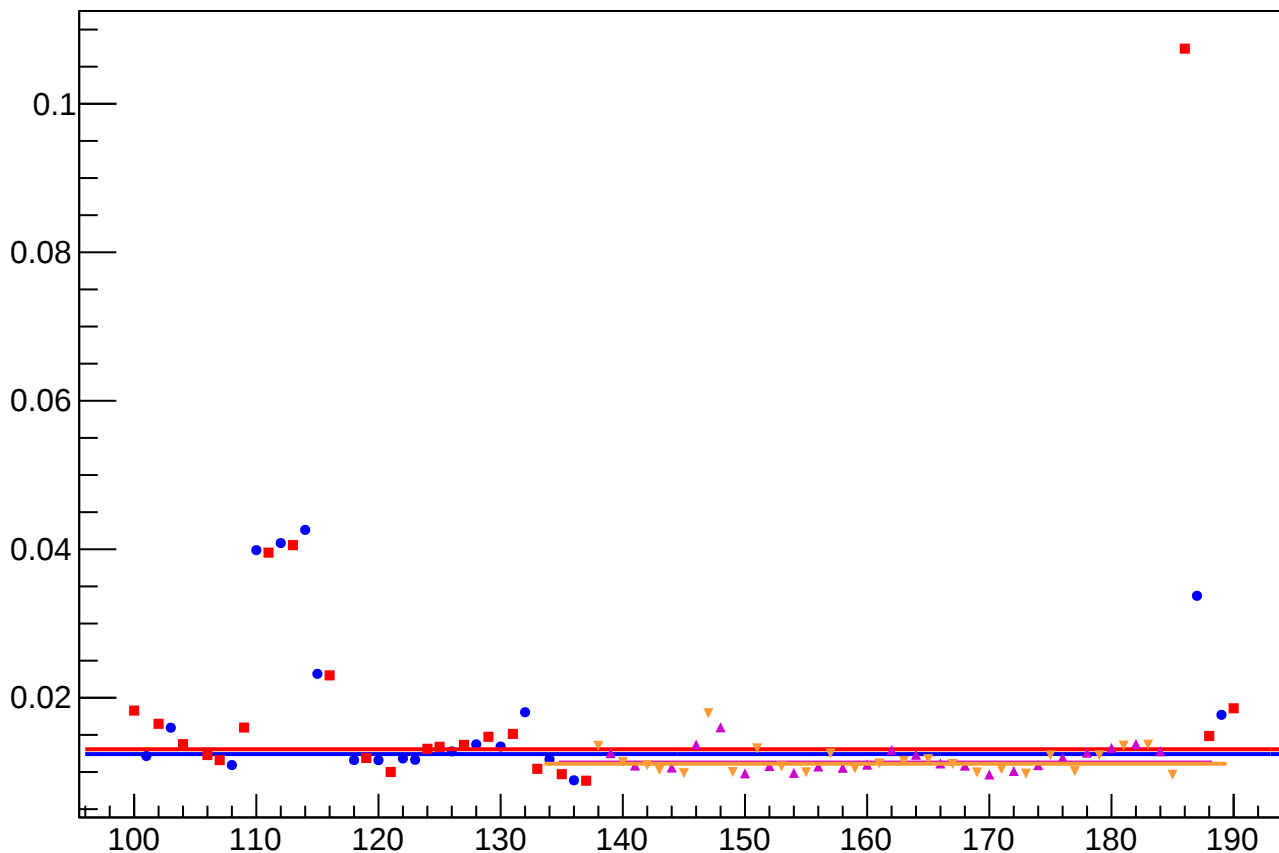
Right: 0.558+/-0.000 χ^2/NDF : 11337693414.8/40

In: 0.385+/-0.000 χ^2/NDF : 6637582615.5/41

Out: 0.386+/-0.000 χ^2/NDF : 7798817870.1/46

All: 0.386+/-0.000 χ^2/NDF : 14436486626.1/86

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1492791.4/18

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1910082.0/21

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

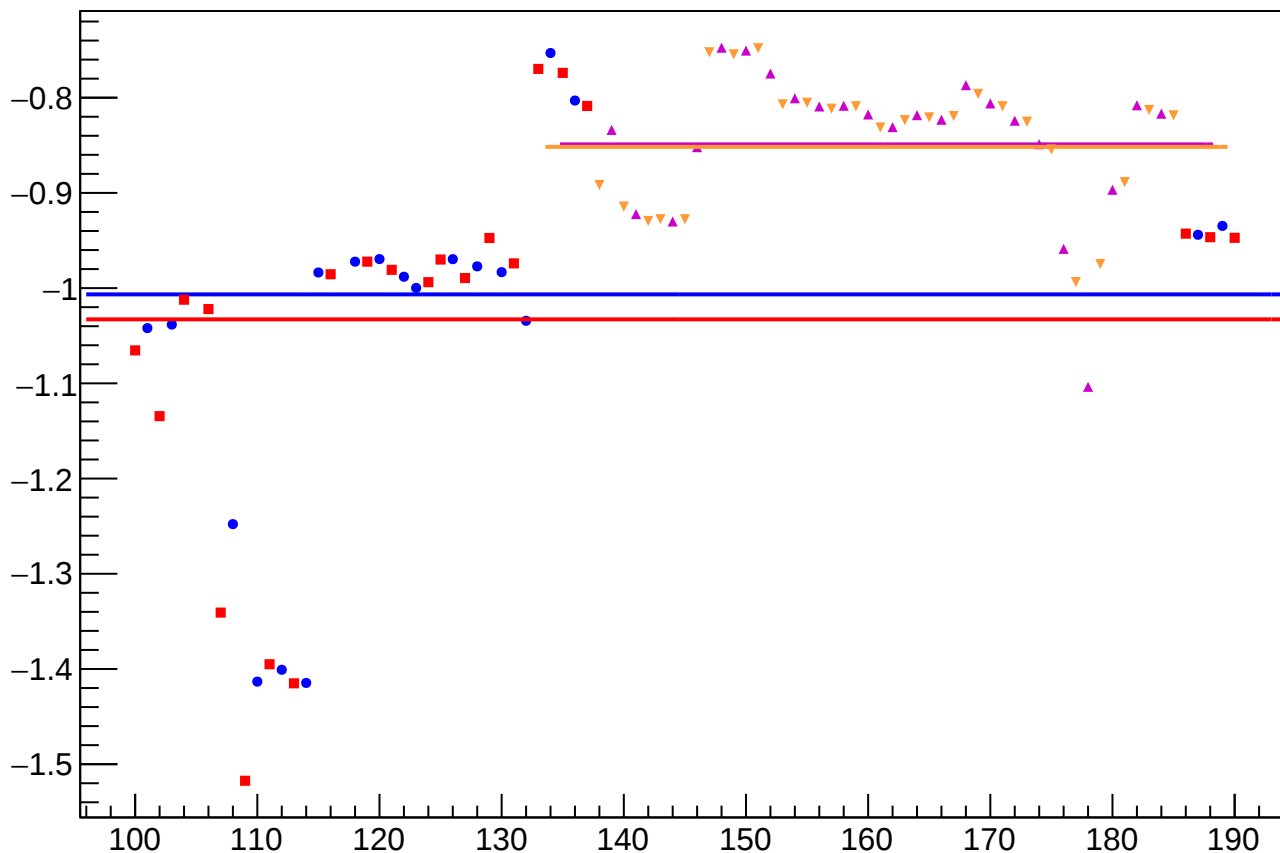
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3420041.2/40

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2073464.7/41

Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 2762406.4/46

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4835944.2/88

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.007 $\pm$ 0.000 χ^2/NDF : 394322760.8/18

Left Out: -0.852 $\pm$ 0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.033 $\pm$ 0.000 χ^2/NDF : 540056250.8/21

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

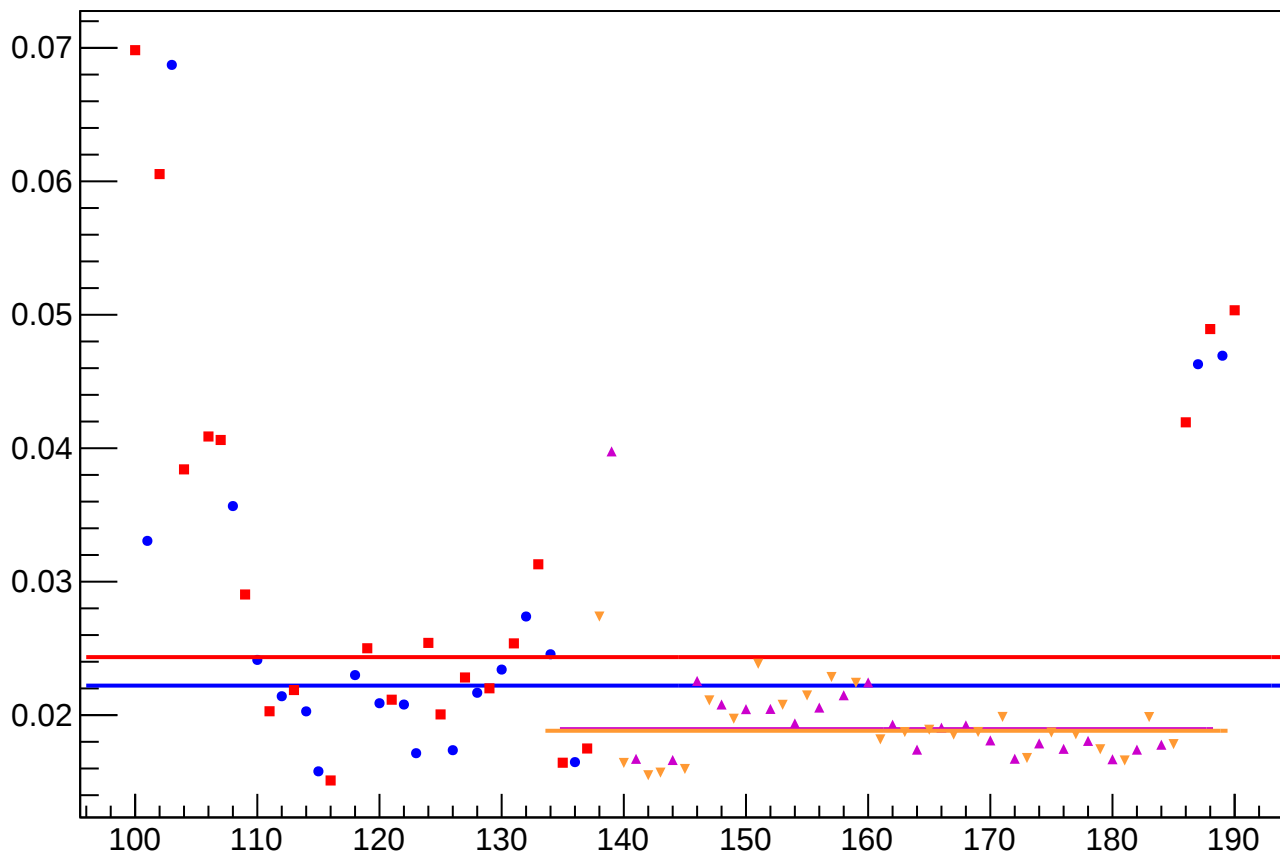
Right: -1.020 $\pm$ 0.000 χ^2/NDF : 938132074.2/40

In: -0.884 $\pm$ 0.000 χ^2/NDF : 863417374.1/41

Out: -0.889 $\pm$ 0.000 χ^2/NDF : 1012330347.2/46

All: -0.886 $\pm$ 0.000 χ^2/NDF : 1876480332.1/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1289141.7/18

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.024+/-0.000 χ^2/NDF : 1925286.1/21

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

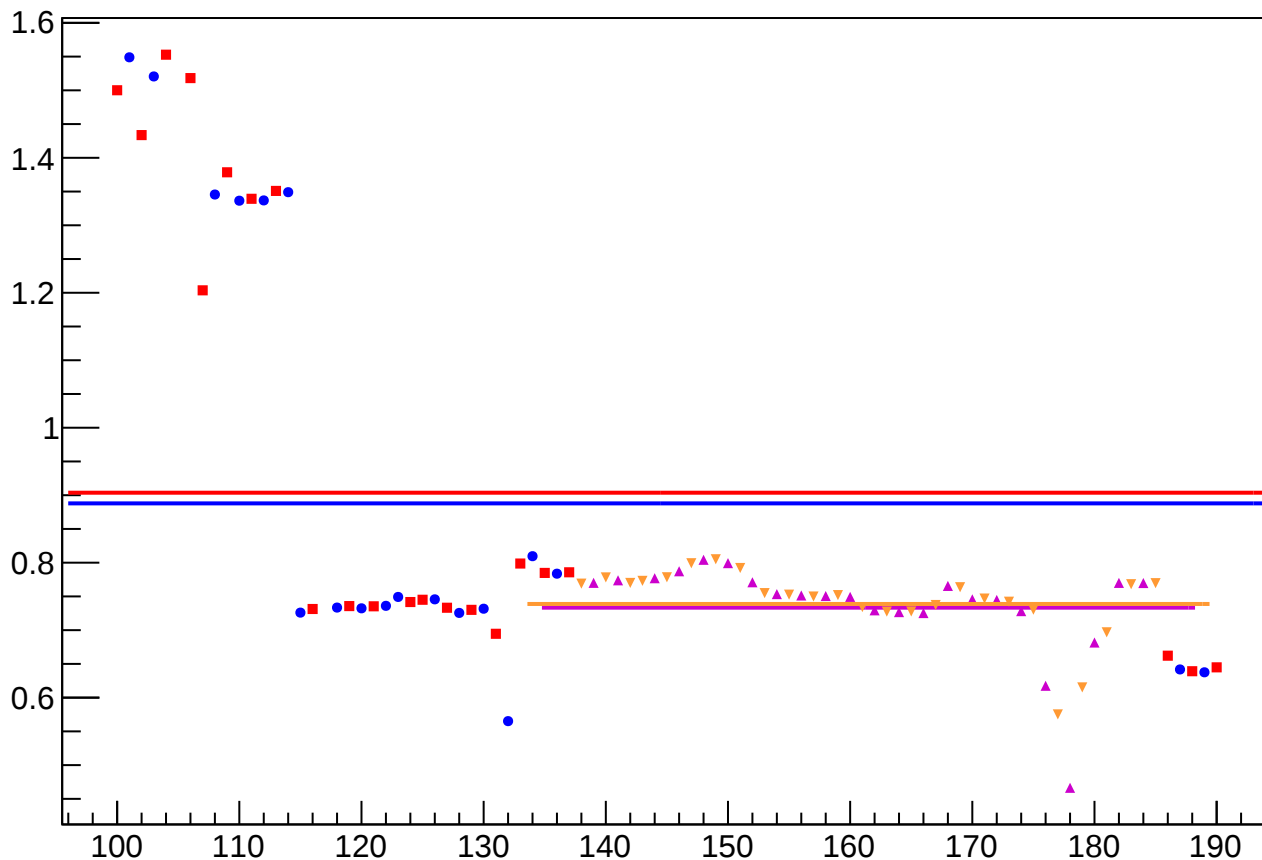
Right: 0.023+/-0.000 χ^2/NDF : 3264188.2/40

In: 0.020+/-0.000 χ^2/NDF : 2116589.0/41

Out: 0.020+/-0.000 χ^2/NDF : 2940723.1/46

All: 0.020+/-0.000 χ^2/NDF : 5061893.9/88

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.888 $\pm$ 0.000 χ^2 /NDF: 2446634818.2/18

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.904 $\pm$ 0.000 χ^2 /NDF: 2626729801.6/21

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

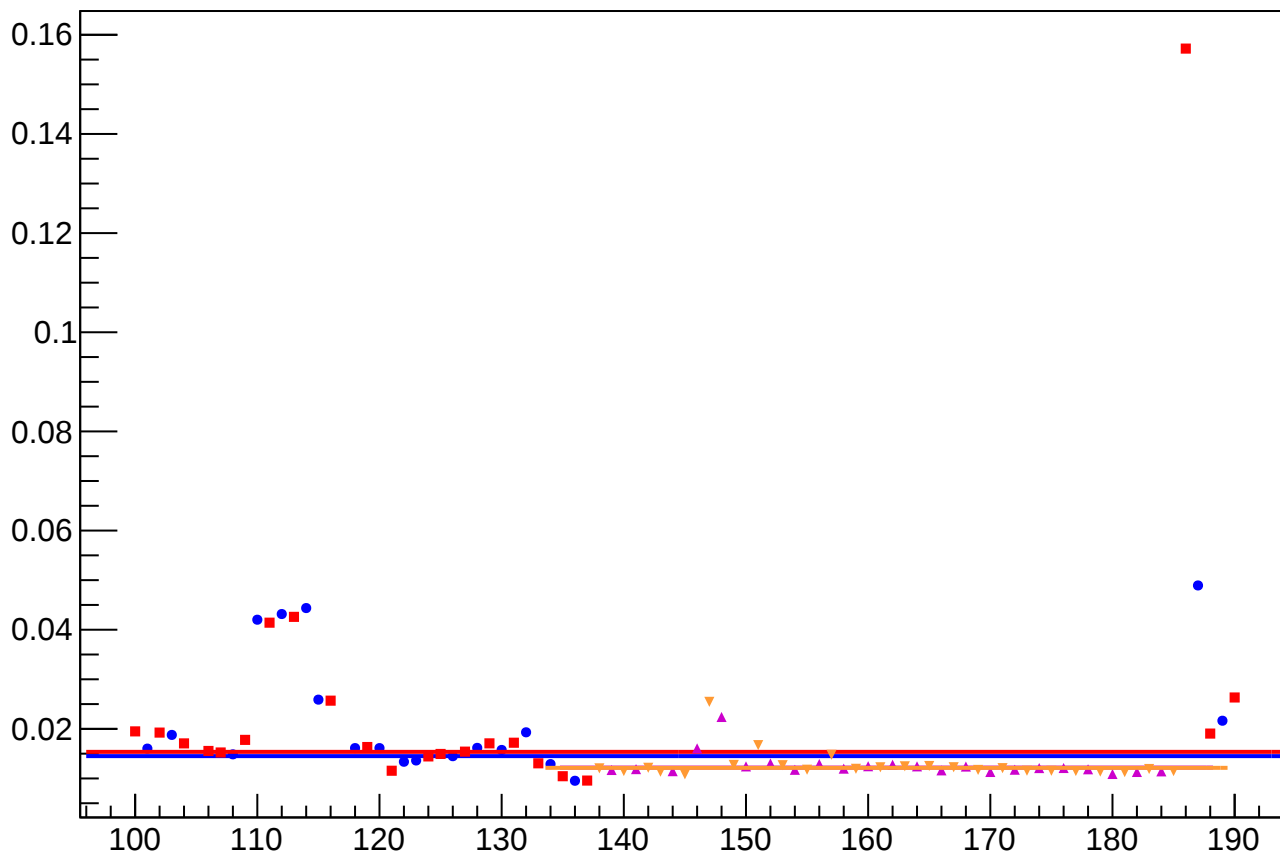
Right: 0.896 $\pm$ 0.000 χ^2 /NDF: 5077004883.6/40

In: 0.764 $\pm$ 0.000 χ^2 /NDF:3558232404.7/41

Out: 0.772 $\pm$ 0.000 χ^2 /NDF:3609947671.0/46

All: 0.768 $\pm$ 0.000 χ^2 /NDF: 7172221508.6/88

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1627700.9/18

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2027520.3/21

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

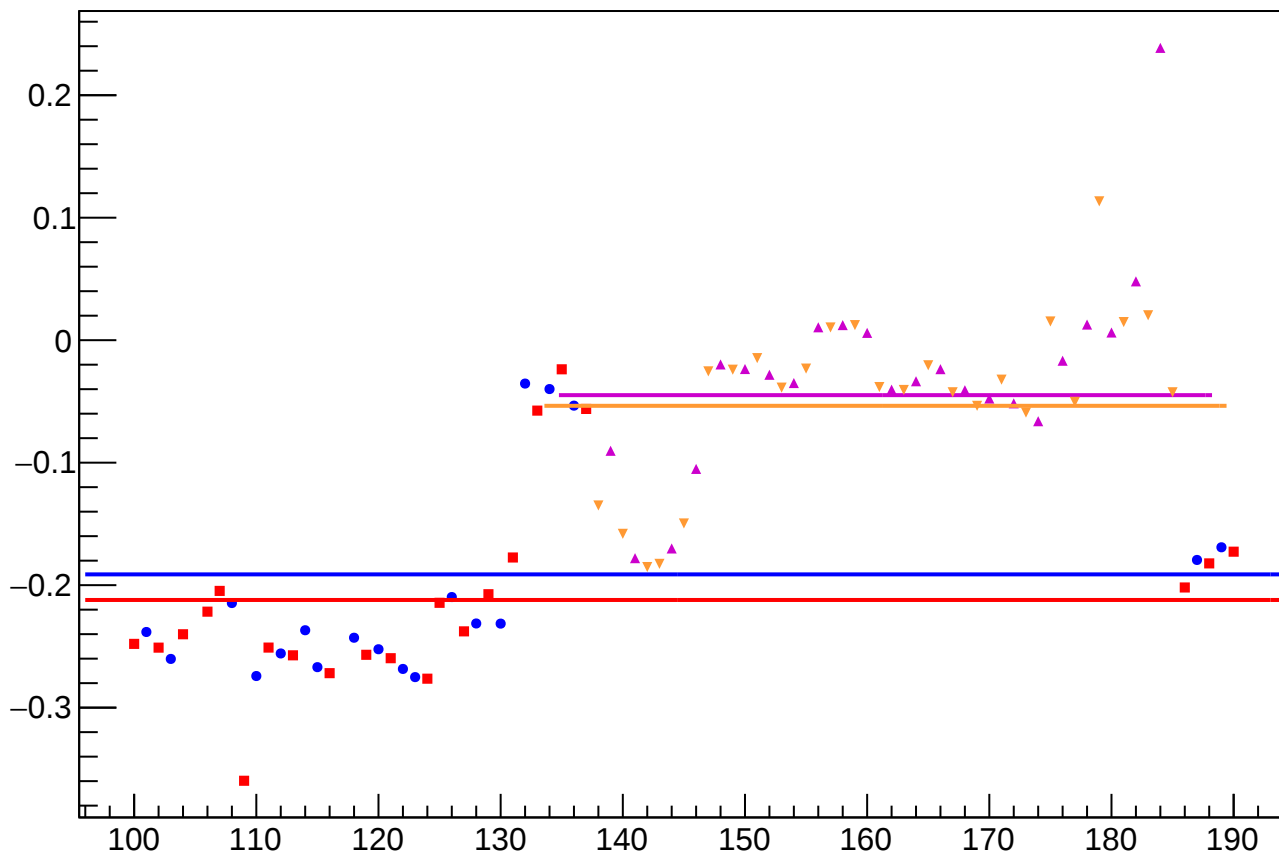
Right: 0.015+/-0.000 χ^2/NDF : 3676808.9/40

In: 0.013+/-0.000 χ^2/NDF : 2351861.3/41

Out: 0.013+/-0.000 χ^2/NDF : 3162738.1/46

All: 0.013+/-0.000 χ^2/NDF : 5517109.1/88

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191+/-0.000 χ^2/NDF : 106032611.1/18

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.212+/-0.000 χ^2/NDF : 110037288.6/21

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

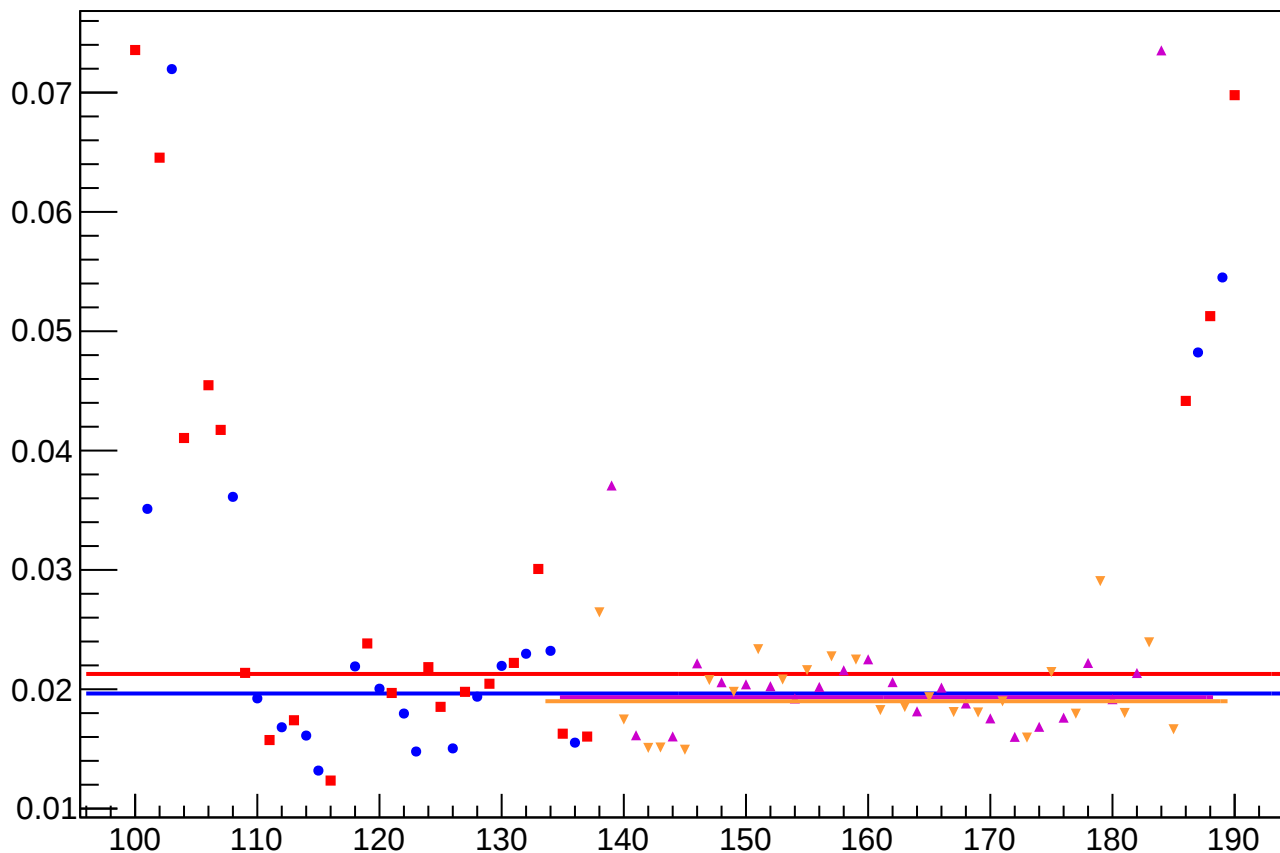
Right: -0.202+/-0.000 χ^2/NDF : 219037322.6/40

In: -0.084+/-0.000 χ^2/NDF : 447399575.2/41

Out: -0.093+/-0.000 χ^2/NDF : 532945370.8/46

All: -0.089+/-0.000 χ^2/NDF : 982543887.7/88

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 1617441.9/18

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2590452.0/21

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

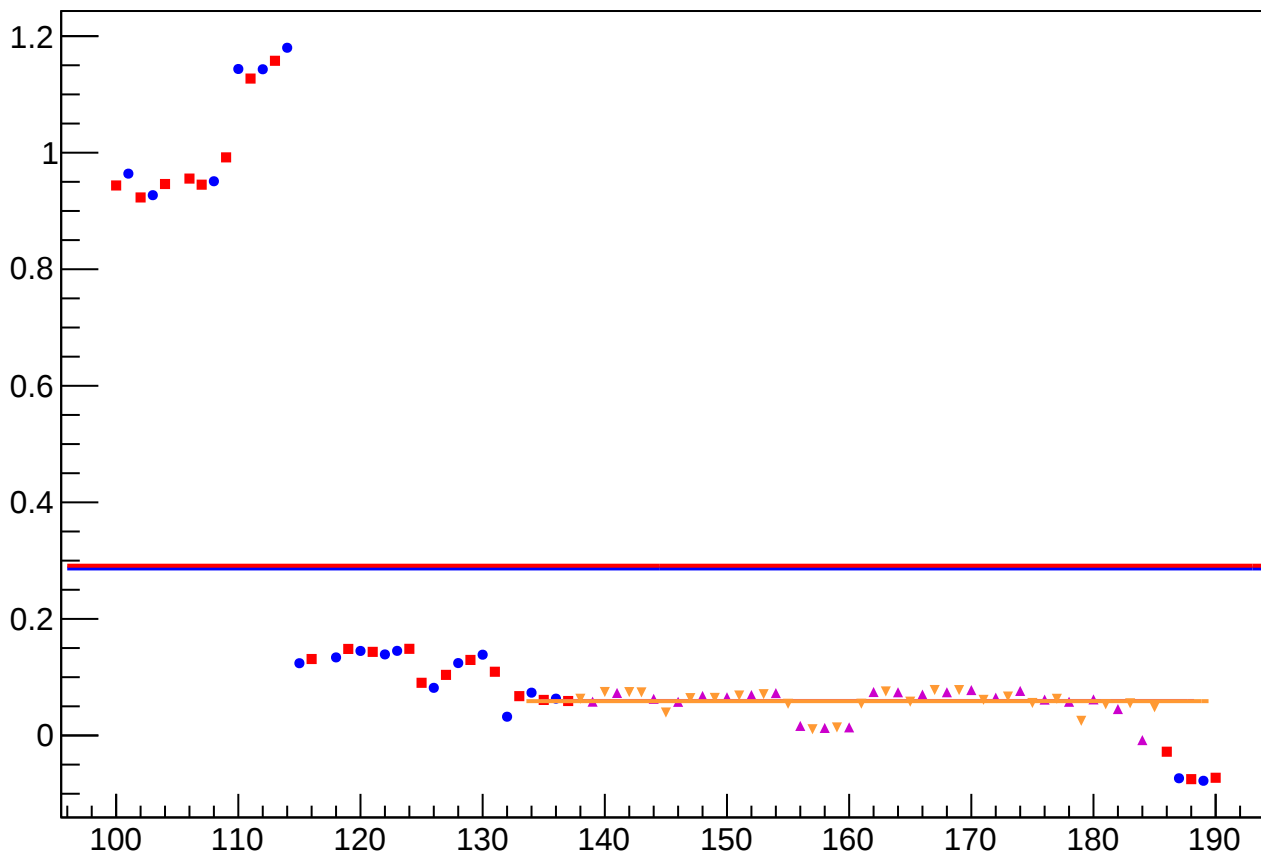
Right: 0.020+/-0.000 χ^2/NDF : 4244368.9/40

In: 0.019+/-0.000 χ^2/NDF : 2512218.8/41

Out: 0.020+/-0.000 χ^2/NDF : 3395727.7/46

All: 0.019+/-0.000 χ^2/NDF : 5909189.8/88

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.287+/-0.000 χ^2/NDF : 5373422617.0/18

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.291+/-0.000 χ^2/NDF : 6221835000.0/21

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

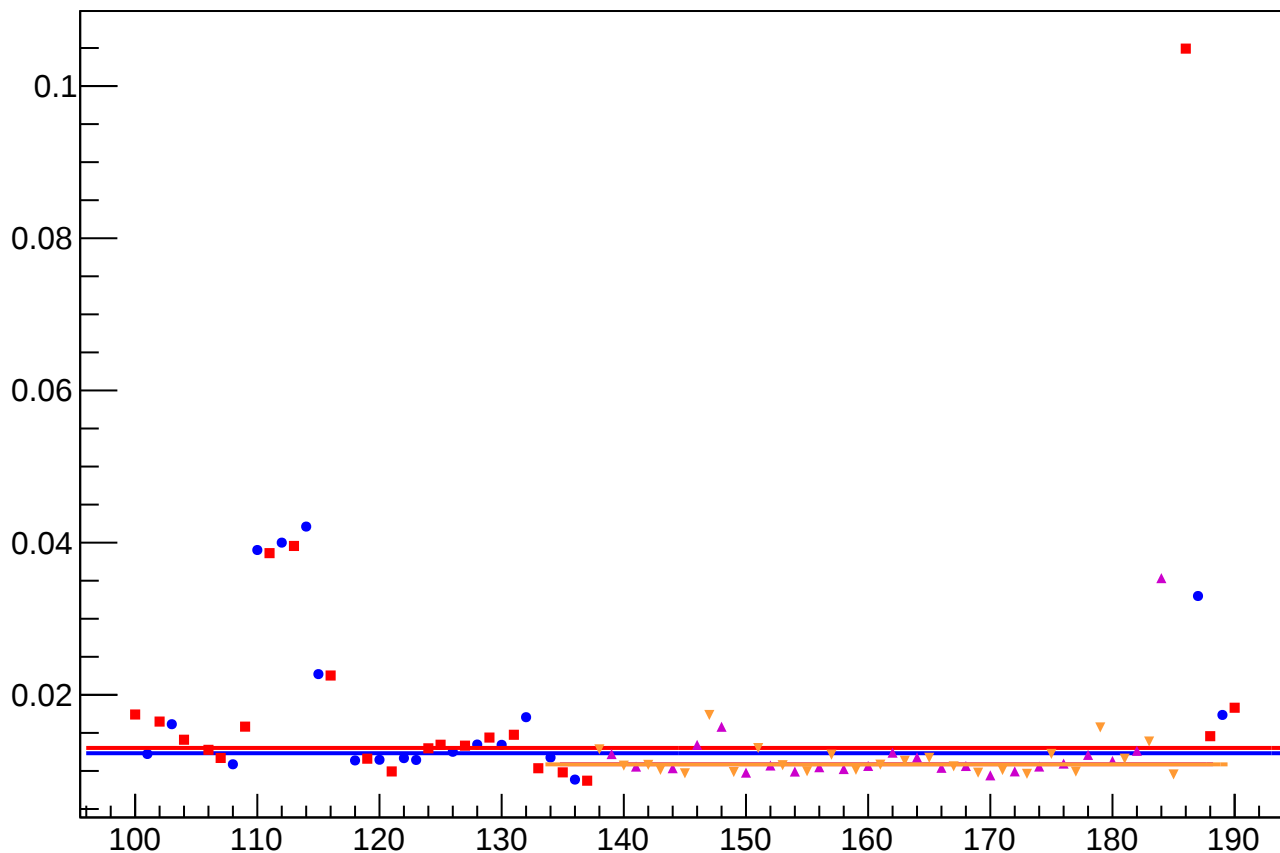
Right: 0.289+/-0.000 χ^2/NDF : 11595714397.1/40

In: 0.110+/-0.000 χ^2/NDF : 7026435313.5/41

Out: 0.111+/-0.000 χ^2/NDF : 8017058912.9/46

All: 0.111+/-0.000 χ^2/NDF : 15043534088.7/86

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1459137.5/18

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1866052.3/21

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

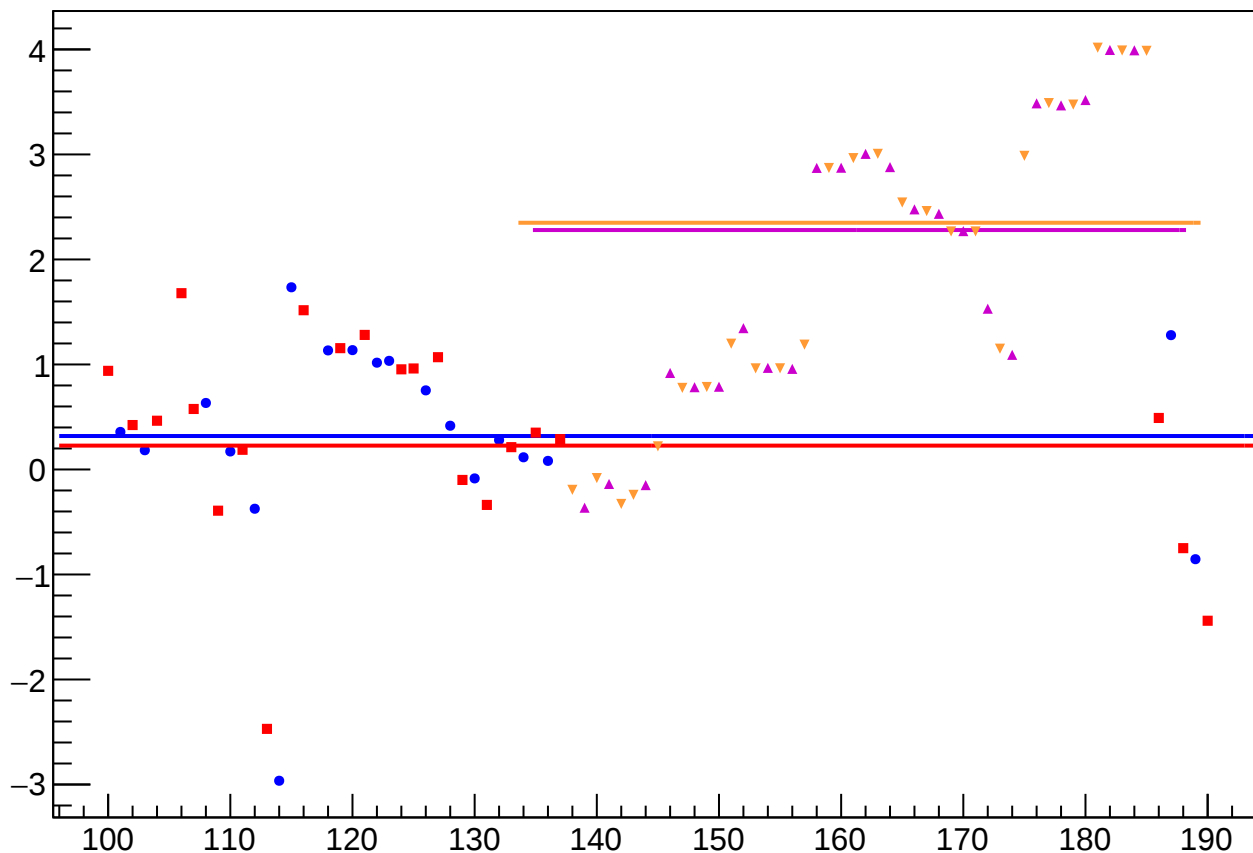
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3344899.4/40

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2116216.2/41

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2773374.3/46

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4892829.1/88

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.319+/-0.000

χ^2/NDF : 524148574.9/18

Left: 2.314+/-0.000

χ^2/NDF : 125168787170.9/47

Left Out: 2.349+/-0.000

χ^2/NDF : 63600066268.3/24

Right: 0.270+/-0.000

χ^2/NDF : 2176632978.2/40

Right Out: 0.227+/-0.000

χ^2/NDF : 1643834810.5/21

In: 2.209+/-0.000

χ^2/NDF : 69254897987.6/41

Left In: 2.280+/-0.000

χ^2/NDF : 61444254541.3/22

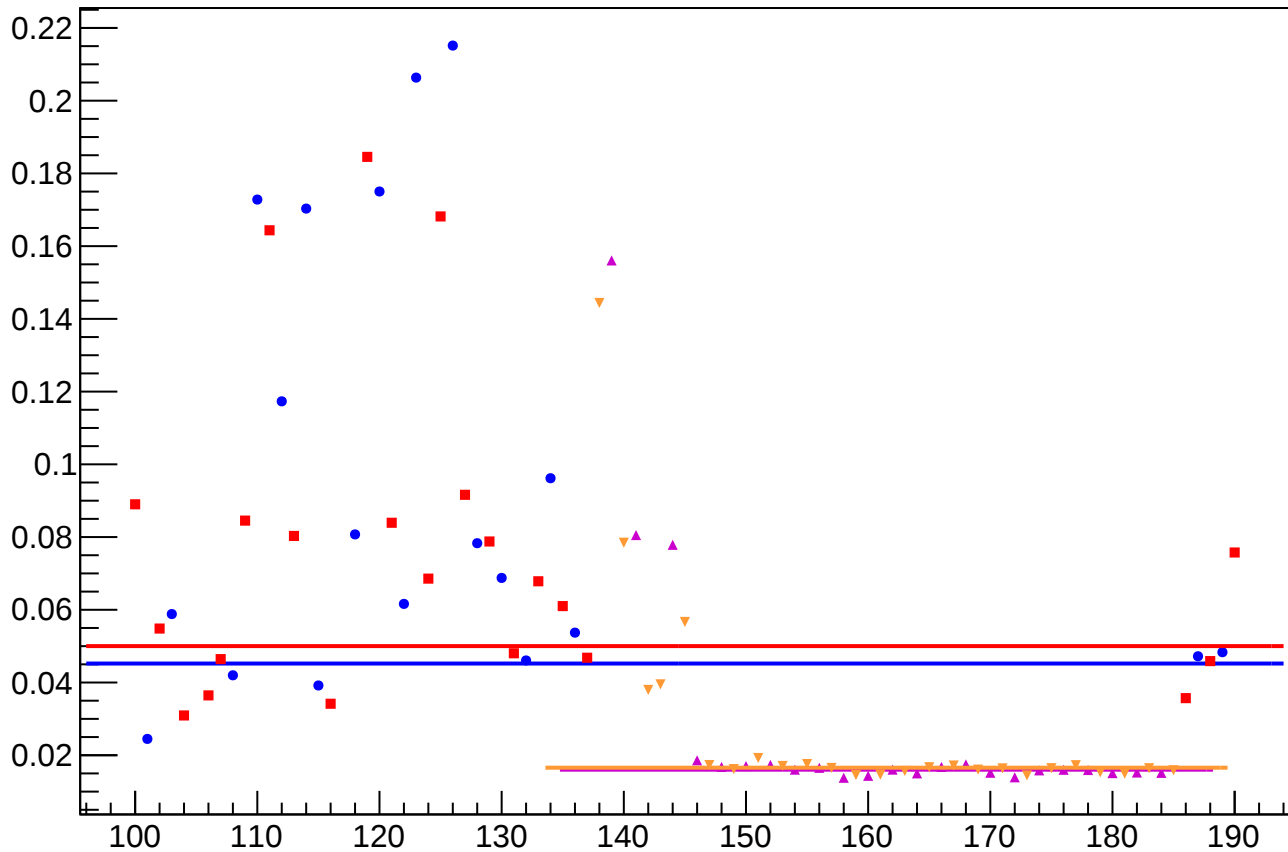
Out: 2.262+/-0.000

χ^2/NDF : 74708753065.7/46

All: 2.235+/-0.000

χ^2/NDF : 144040032304.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2776822.3/18

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.050+/-0.000 χ^2/NDF : 2394801.6/21

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

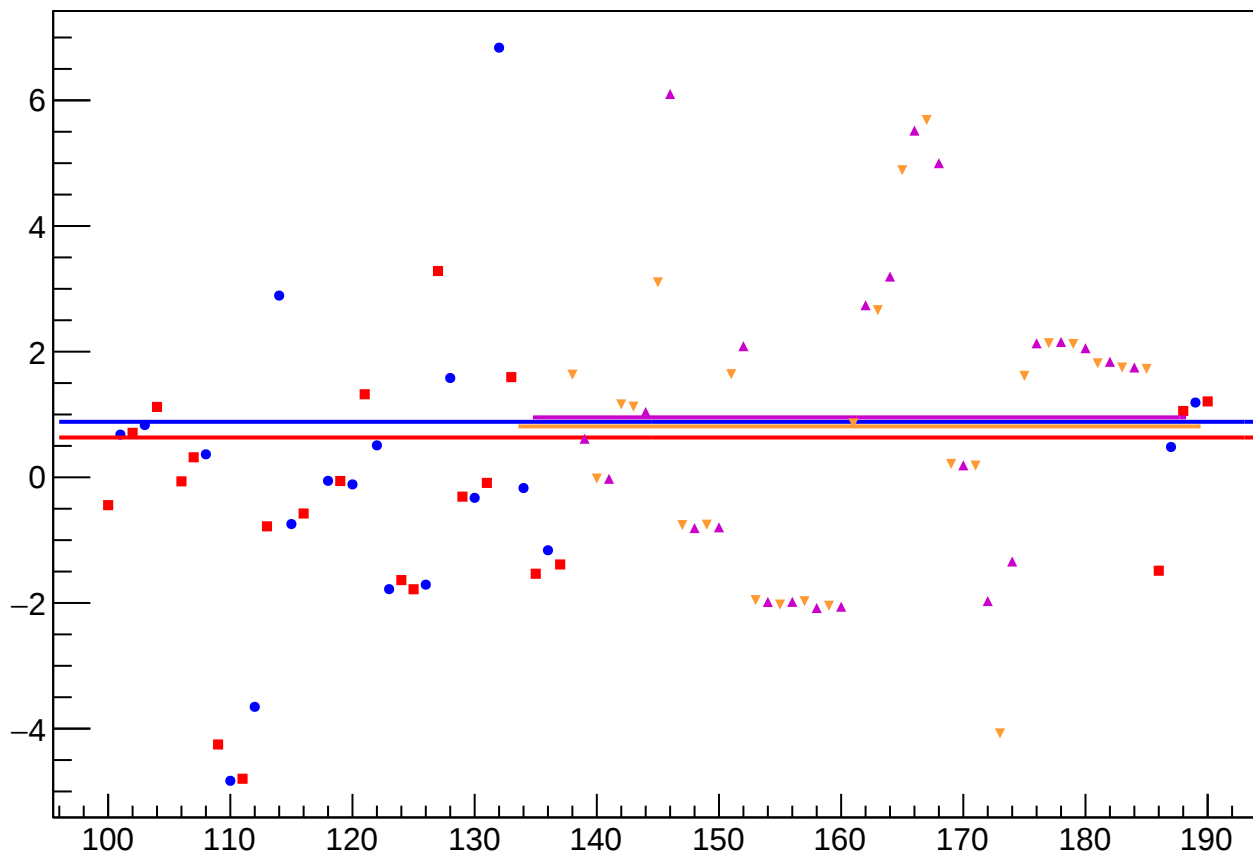
Right: 0.048+/-0.000 χ^2/NDF : 5219254.9/40

In: 0.017+/-0.000 χ^2/NDF : 8467669.3/41

Out: 0.018+/-0.000 χ^2/NDF : 9717544.8/46

All: 0.018+/-0.000 χ^2/NDF : 18225049.3/88

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.884+/-0.000 χ^2/NDF : 11031663991.3/18

Left Out: 0.810+/-0.000 χ^2/NDF : 507583198570.2/24

Right Out: 0.634+/-0.000 χ^2/NDF : 5664673322.7/21

Left In: 0.954+/-0.000 χ^2/NDF : 574792794608.3/22

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

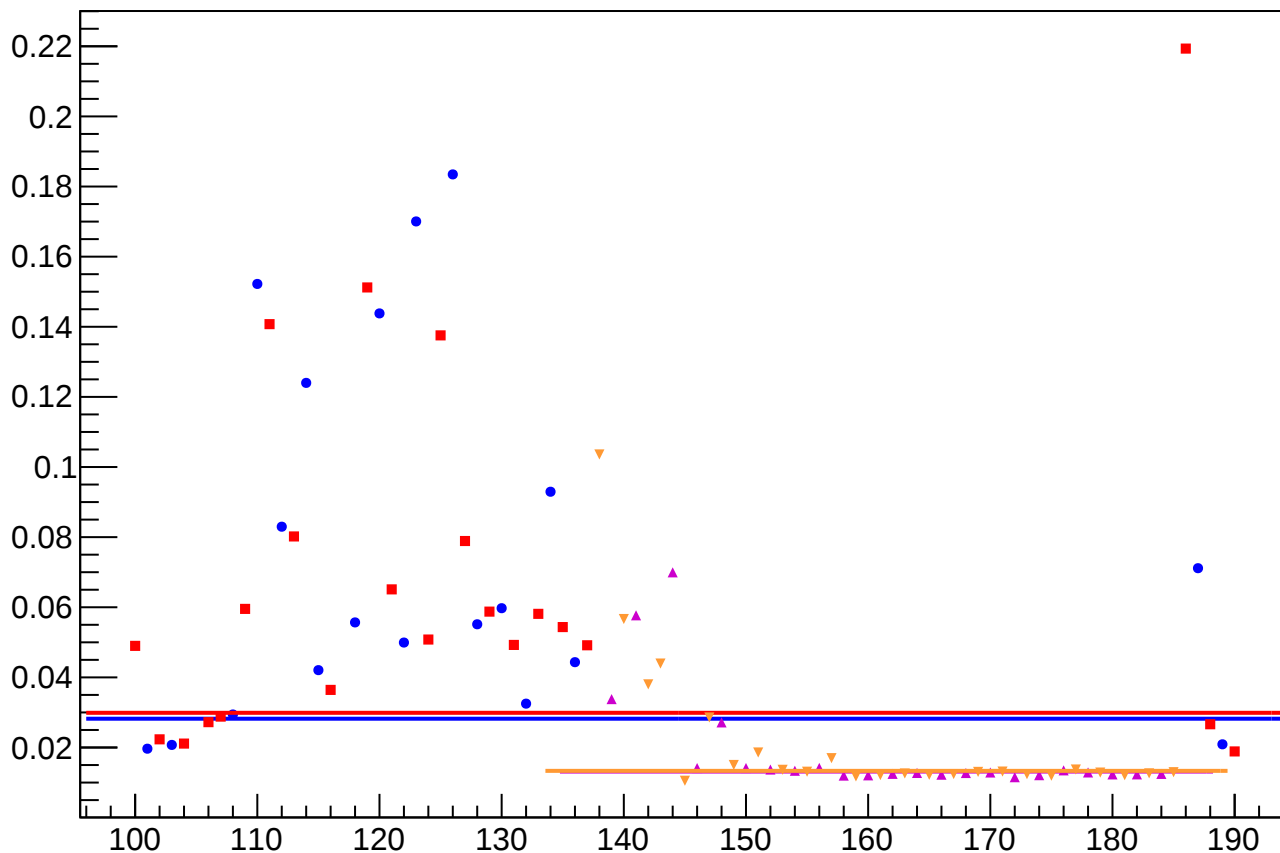
Right: 0.751+/-0.000 χ^2/NDF : 16853119979.2/40

In: 0.951+/-0.000 χ^2/NDF : 585846748312.5/41

Out: 0.800+/-0.000 χ^2/NDF : 513405174206.2/46

All: 0.875+/-0.000 χ^2/NDF : 1100278640601.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 3159291.0/18

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.030+/-0.000 χ^2/NDF : 3901879.7/21

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

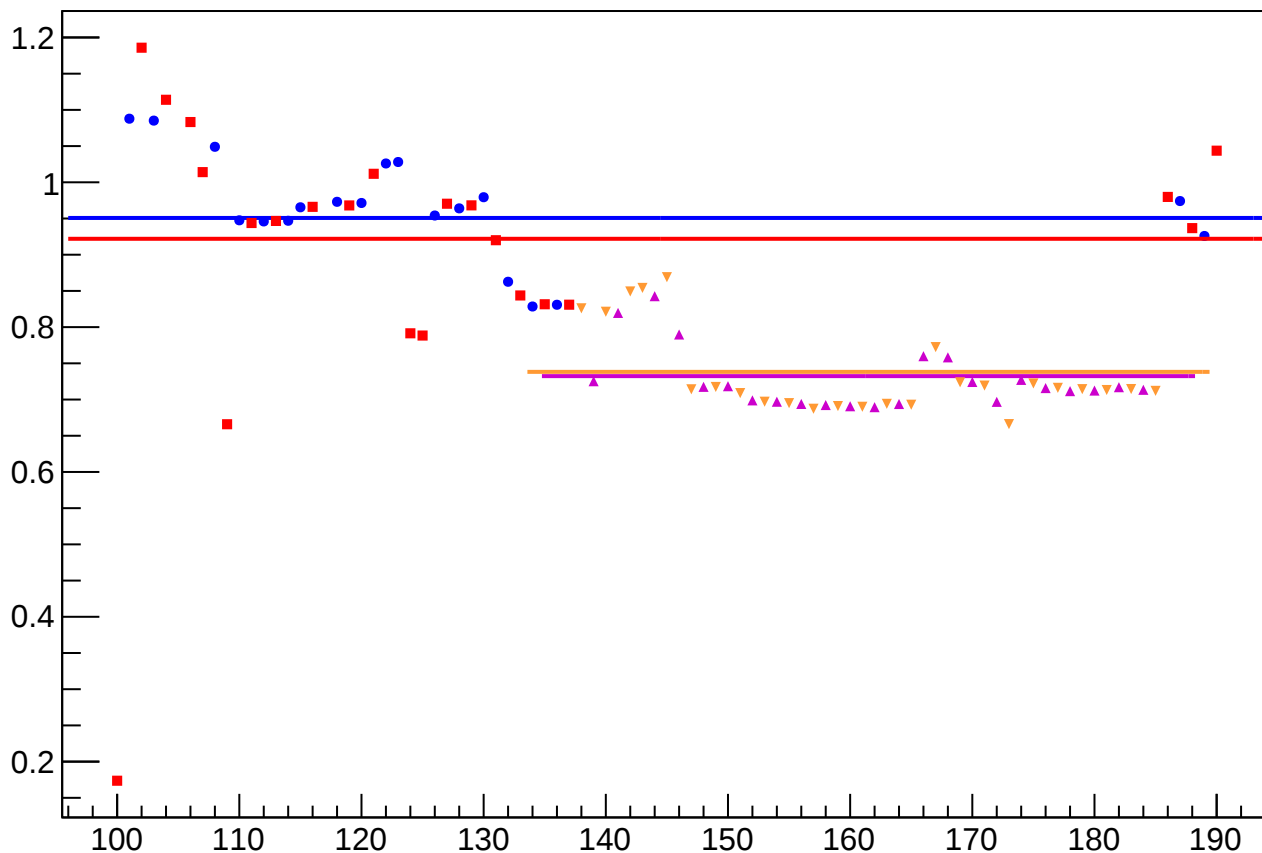
Right: 0.029+/-0.000 χ^2/NDF : 7075423.7/40

In: 0.014+/-0.000 χ^2/NDF : 7160589.2/41

Out: 0.014+/-0.000 χ^2/NDF : 9494119.8/46

All: 0.014+/-0.000 χ^2/NDF : 16669102.6/88

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.951+/-0.000 χ^2/NDF : 174722498.3/18

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.922+/-0.000 χ^2/NDF : 381233551.8/21

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

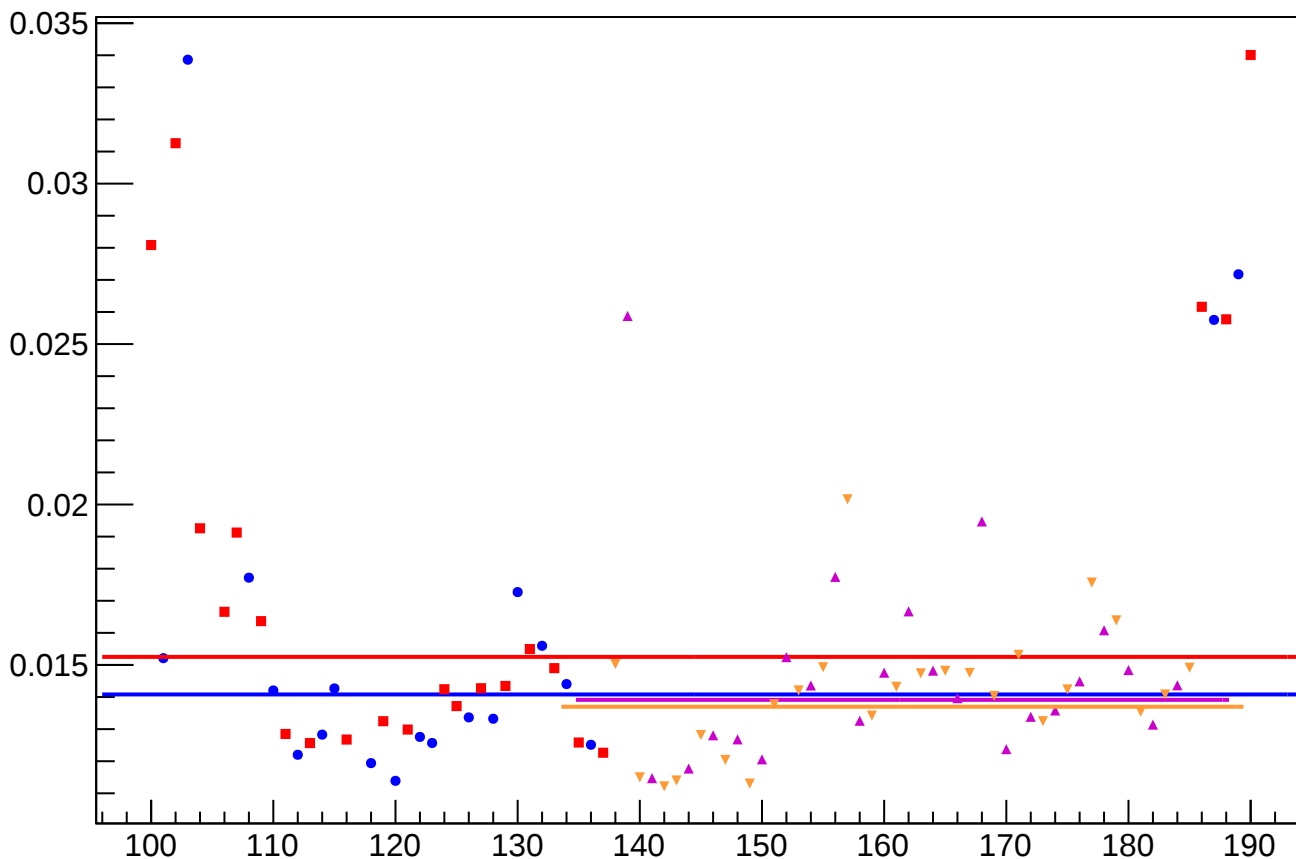
Right: 0.936+/-0.000 χ^2/NDF : 568882576.8/40

In: 0.793+/-0.000 χ^2/NDF : 1414229298.1/41

Out: 0.787+/-0.000 χ^2/NDF : 1468948344.8/46

All: 0.790+/-0.000 χ^2/NDF : 2885284239.3/88

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 791202.1/18

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1168185.1/21

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

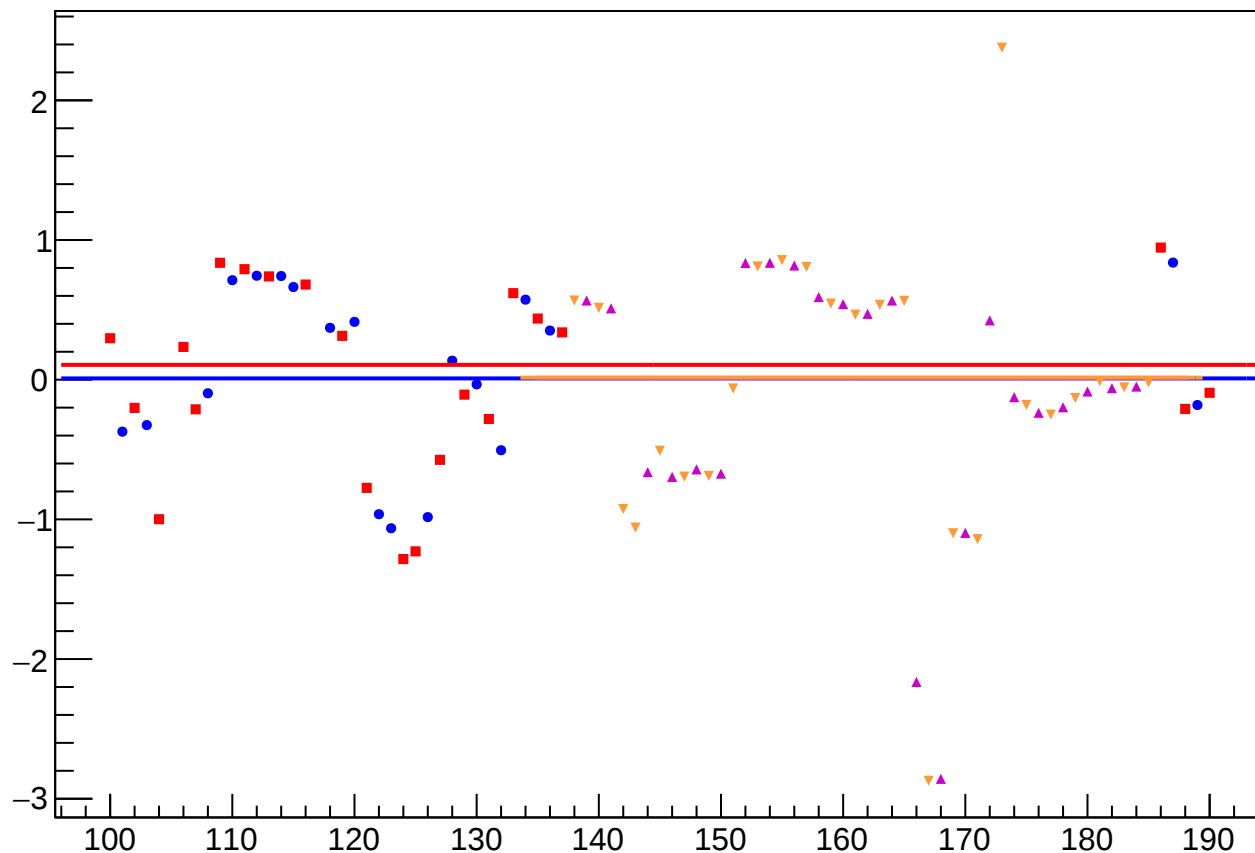
Right: 0.015+/-0.000 χ^2/NDF : 2002149.8/40

In: 0.014+/-0.000 χ^2/NDF : 1587023.1/41

Out: 0.014+/-0.000 χ^2/NDF : 1810106.6/46

All: 0.014+/-0.000 χ^2/NDF : 3399768.7/88

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 6404341931.0/18

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.106+/-0.000 χ^2/NDF : 13140245639.7/21

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

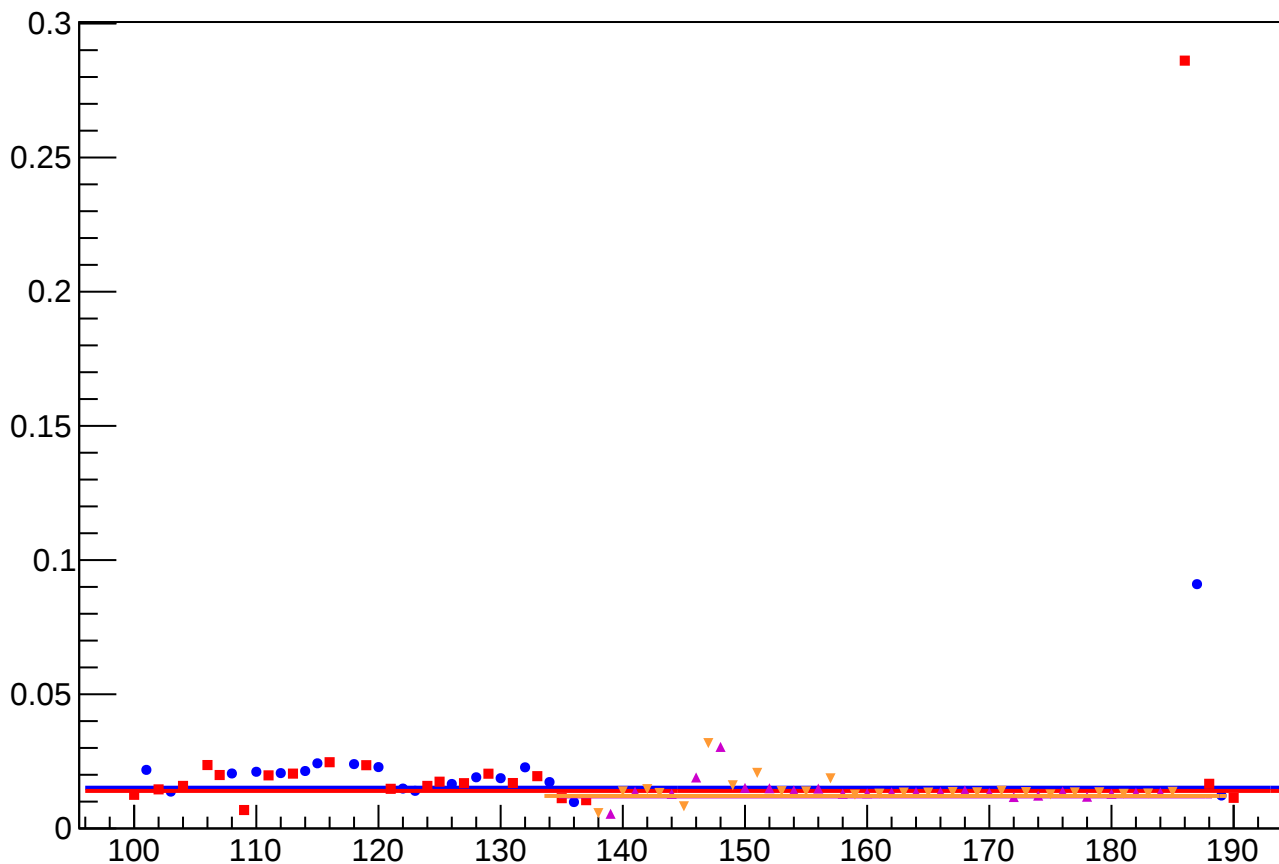
Right: 0.064+/-0.000 χ^2/NDF : 19680669559.6/40

In: 0.012+/-0.000 χ^2/NDF : 85850344561.1/41

Out: 0.036+/-0.000 χ^2/NDF : 109440619569.6/46

All: 0.025+/-0.000 χ^2/NDF : 195329576689.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1374005.4/18

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2256455.0/21

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

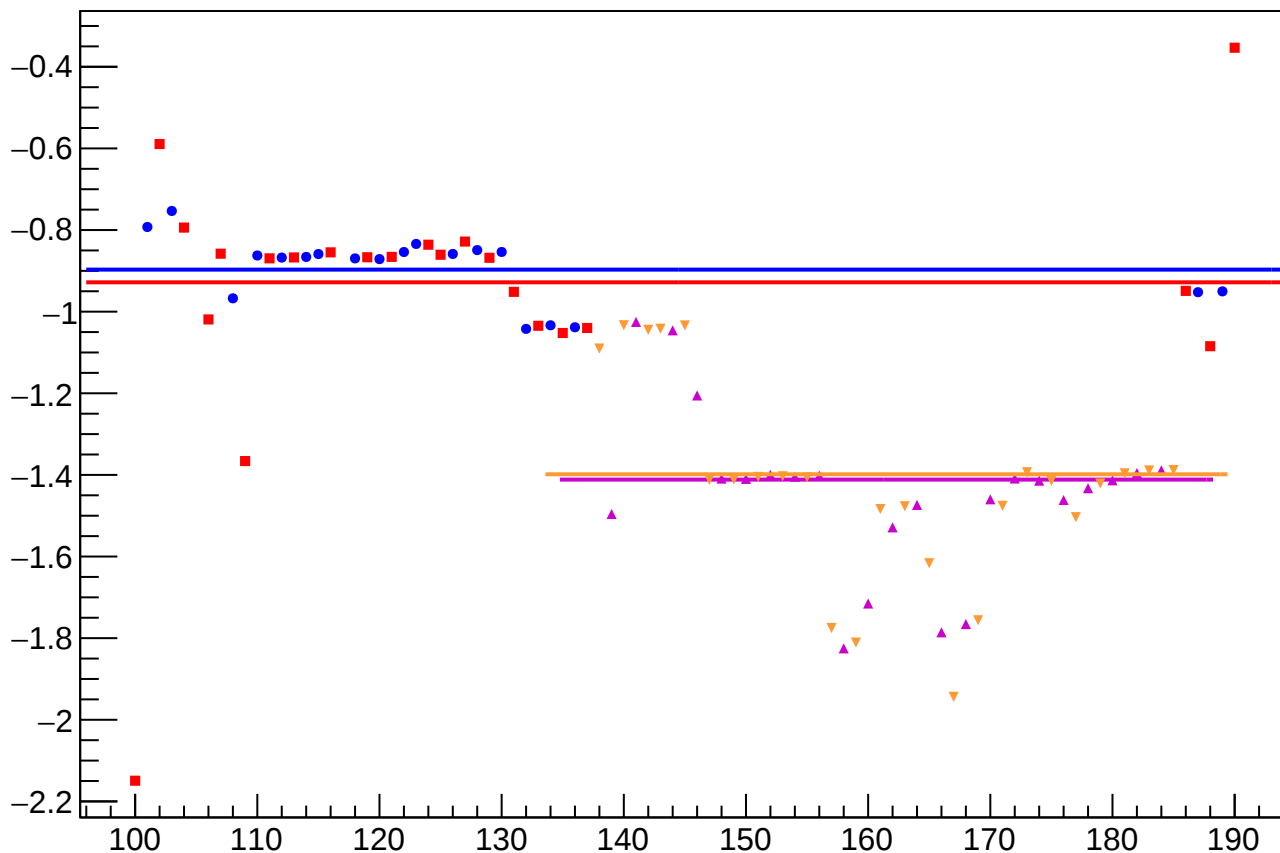
Right: 0.015+/-0.000 χ^2/NDF : 3672084.6/40

In: 0.013+/-0.000 χ^2/NDF :4920301.8/41

Out: 0.013+/-0.000 χ^2/NDF :5543021.6/46

All: 0.013+/-0.000 χ^2/NDF : 10463338.0/88

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.897 ± 0.000 $\chi^2/\text{NDF}: 38418076.5/18$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.928 ± 0.000 $\chi^2/\text{NDF}: 151146541.2/21$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

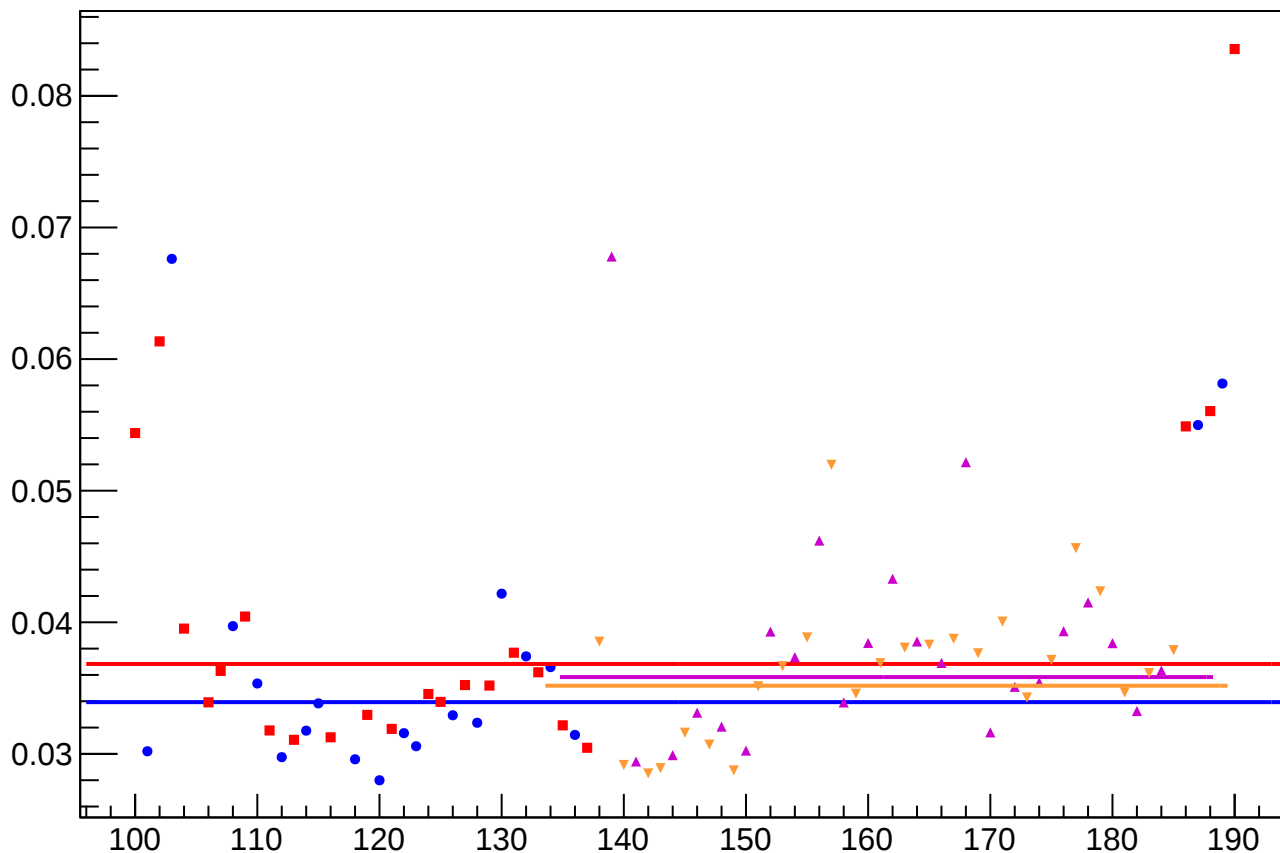
Right: -0.913 ± 0.000 $\chi^2/\text{NDF}: 192207054.4/40$

In: -1.251 ± 0.000 $\chi^2/\text{NDF}: 1538994678.2/41$

Out: -1.259 ± 0.000 $\chi^2/\text{NDF}: 1737880513.4/46$

All: -1.255 ± 0.000 $\chi^2/\text{NDF}: 3277412185.0/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 584818.3/18

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.037+/-0.000 χ^2/NDF : 805454.6/21

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

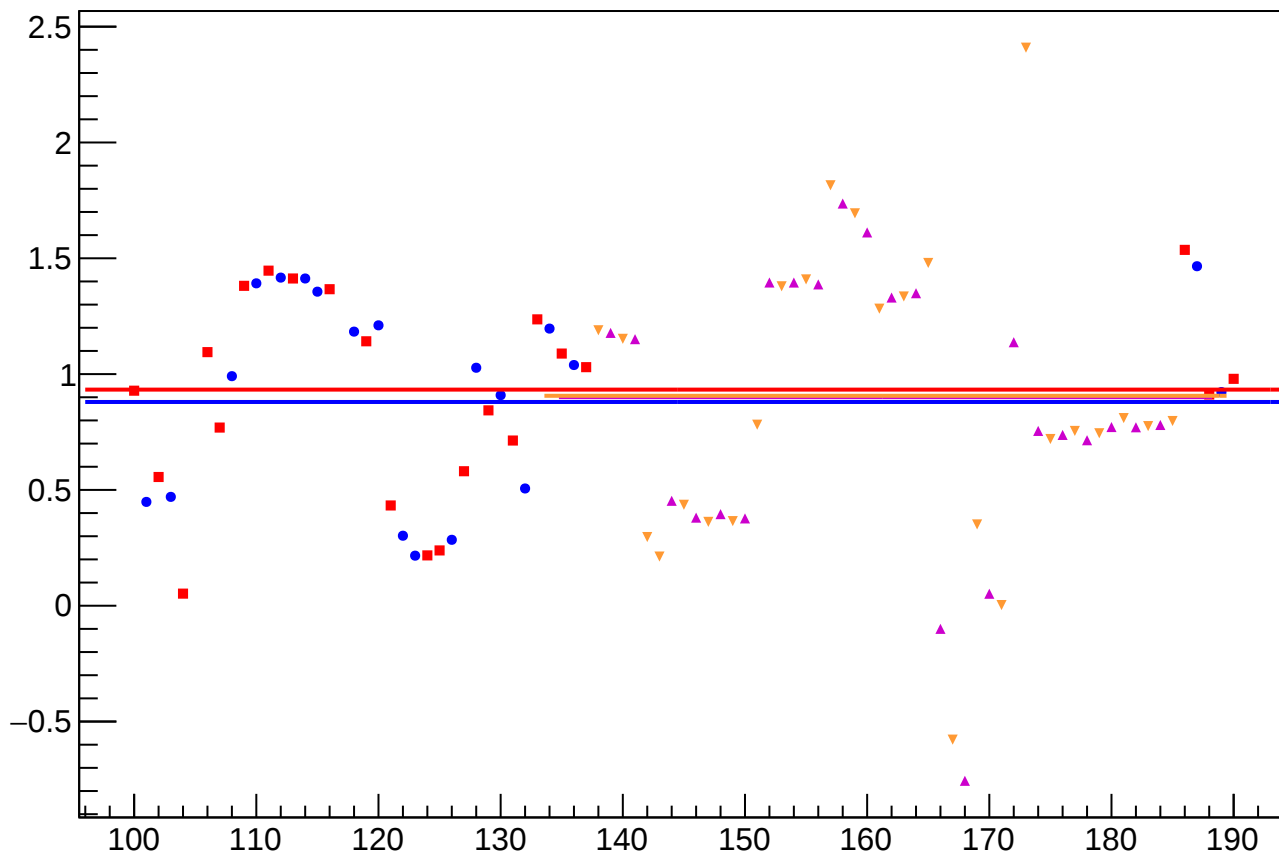
Right: 0.035+/-0.000 χ^2/NDF : 1436136.7/40

In: 0.035+/-0.000 χ^2/NDF : 1502872.1/41

Out: 0.036+/-0.000 χ^2/NDF : 1424419.6/46

All: 0.035+/-0.000 χ^2/NDF : 2930557.6/88

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.880 $\pm$ 0.000

χ^2 /NDF: 6480799741.7/18

Left Out: 0.906 $\pm$ 0.000

χ^2 /NDF: 84108410196.2/24

Right Out: 0.933 $\pm$ 0.000

χ^2 /NDF: 9973039173.7/21

Left In: 0.901 $\pm$ 0.000

χ^2 /NDF: 66932223067.8/22

Left: 0.904 $\pm$ 0.000

χ^2 /NDF: 151044220035.9/47

Right: 0.908 $\pm$ 0.000

χ^2 /NDF: 16540426071.6/40

In: 0.896 $\pm$ 0.000

χ^2 /NDF: 73432509204.9/41

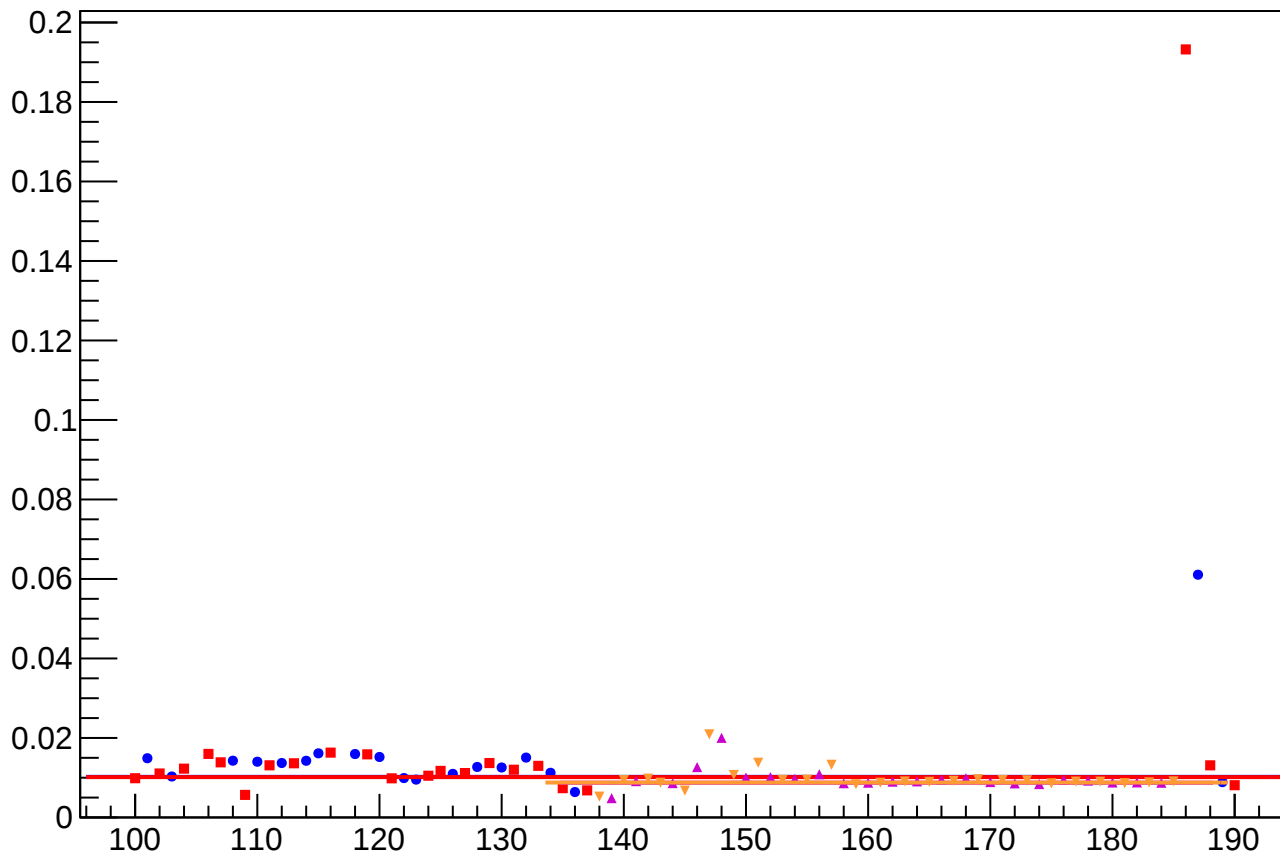
Out: 0.913 $\pm$ 0.000

χ^2 /NDF: 94117328117.8/46

All: 0.905 $\pm$ 0.000

χ^2 /NDF: 167586809418.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1415700.3/18

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1910290.7/21

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

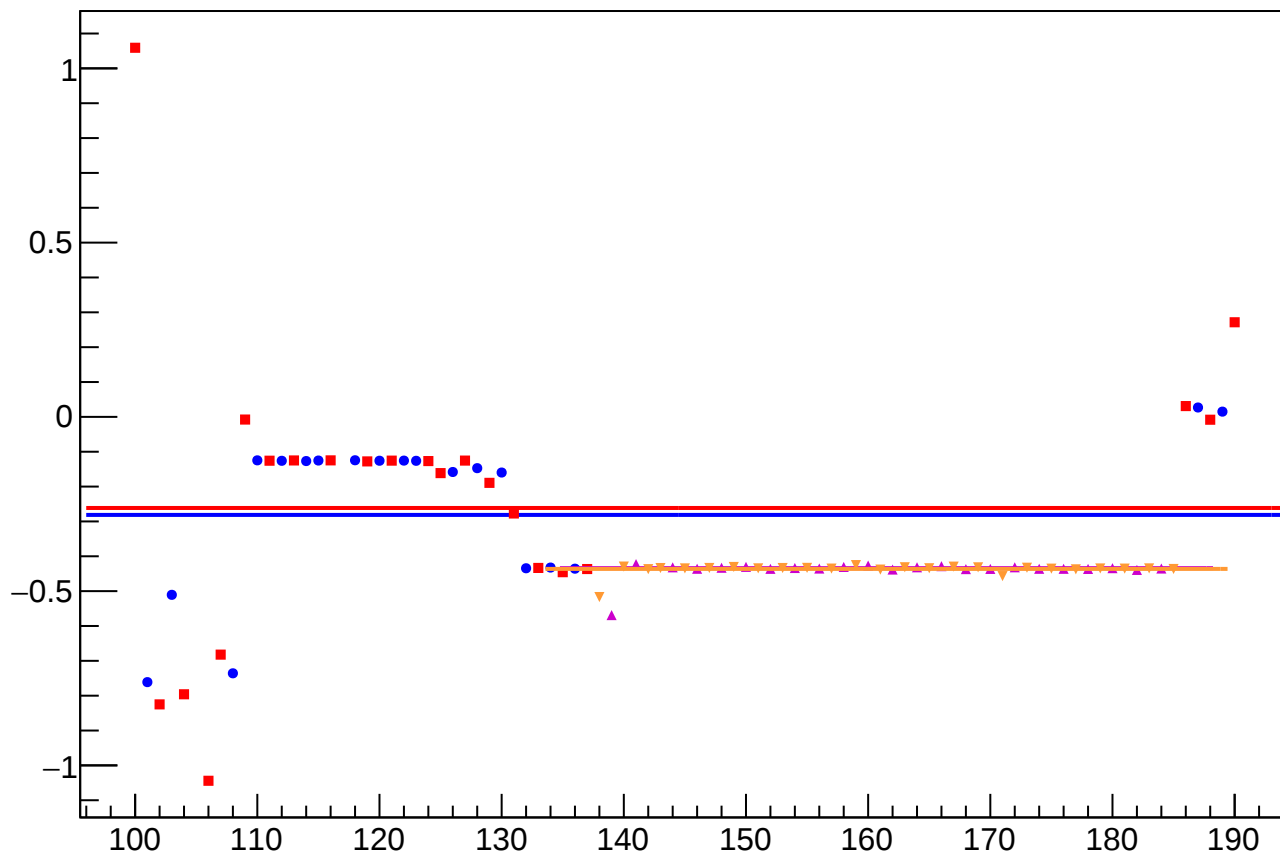
Right: 0.010+/-0.000 χ^2/NDF : 3326250.4/40

In: 0.009+/-0.000 χ^2/NDF : 3279710.2/41

Out: 0.009+/-0.000 χ^2/NDF : 3796661.9/46

All: 0.009+/-0.000 χ^2/NDF : 7076976.8/88

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.281+/-0.000 χ^2/NDF : 914770478.3/18

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.261+/-0.000 χ^2/NDF : 1026494376.3/21

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

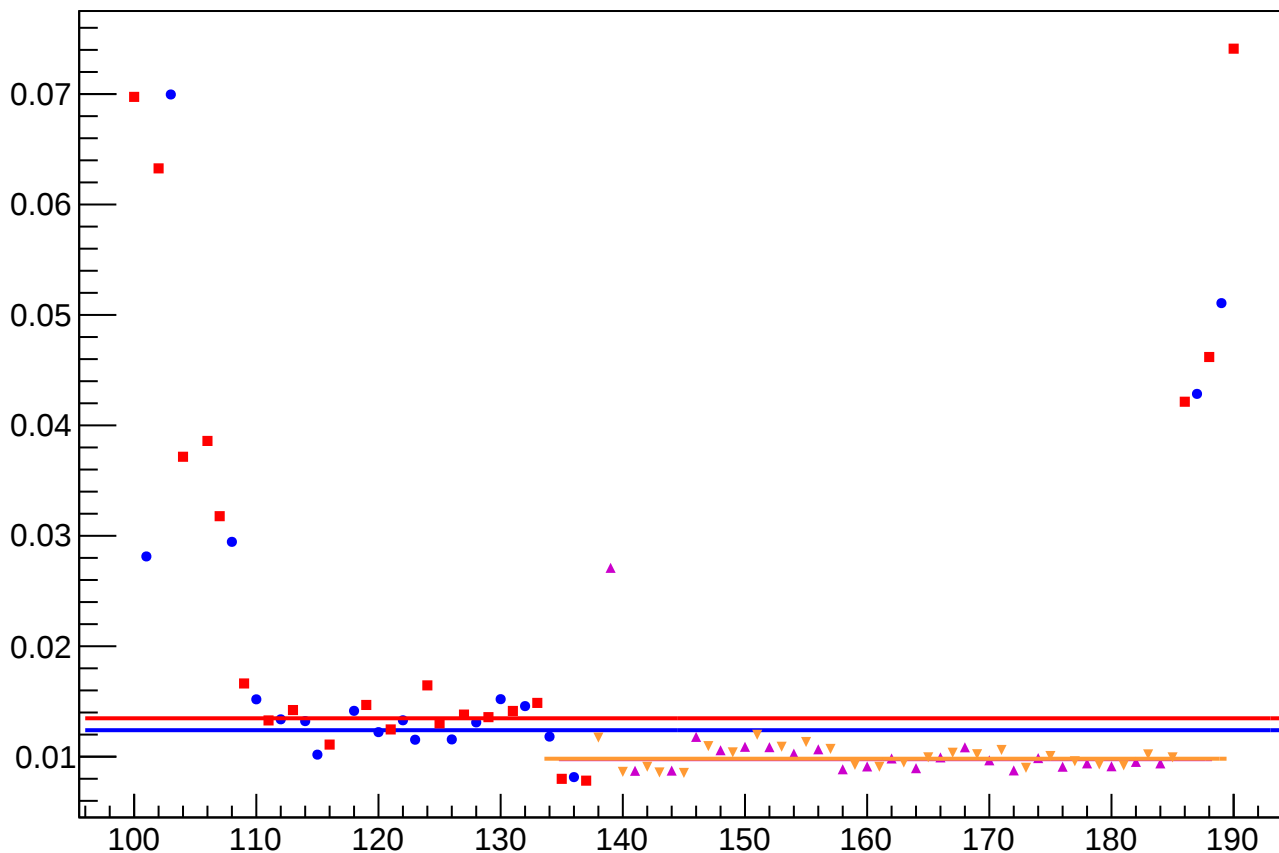
Right: -0.272+/-0.000 χ^2/NDF : 1947425533.5/40

In: -0.408+/-0.000 χ^2/NDF : 1548063296.3/41

Out: -0.409+/-0.000 χ^2/NDF : 1838049165.4/46

All: -0.408+/-0.000 χ^2/NDF : 3386178479.9/8

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 2312636.4/18

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 3624101.2/21

Left In: 0.010 $\pm$ 0.000 χ^2/NDF : 786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

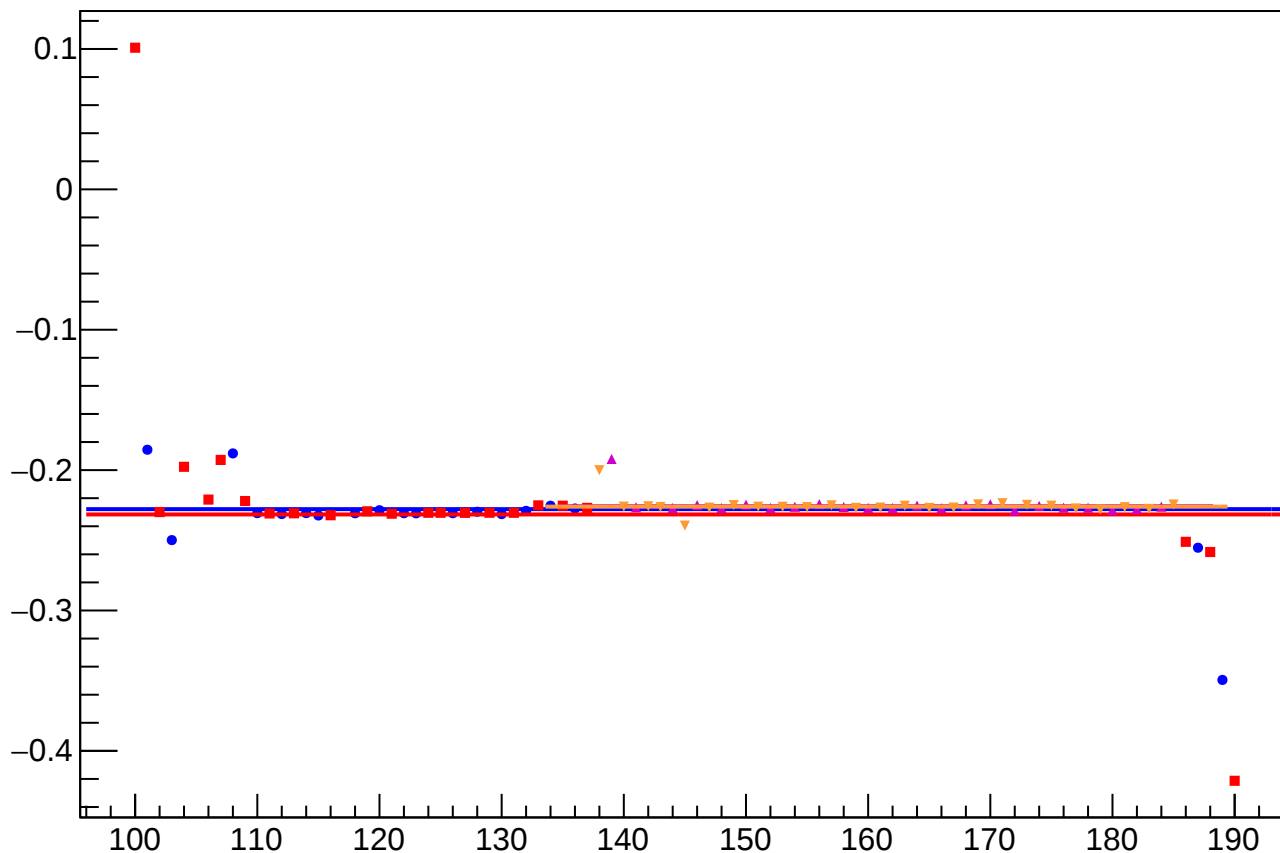
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 5972820.4/40

In: 0.010 $\pm$ 0.000 χ^2/NDF : 3461774.0/41

Out: 0.010 $\pm$ 0.000 χ^2/NDF : 4581819.6/46

All: 0.010 $\pm$ 0.000 χ^2/NDF : 8049008.2/88

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.228+/-0.000 χ^2/NDF : 209786854.9/18

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.232+/-0.000 χ^2/NDF : 532611402.0/21

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

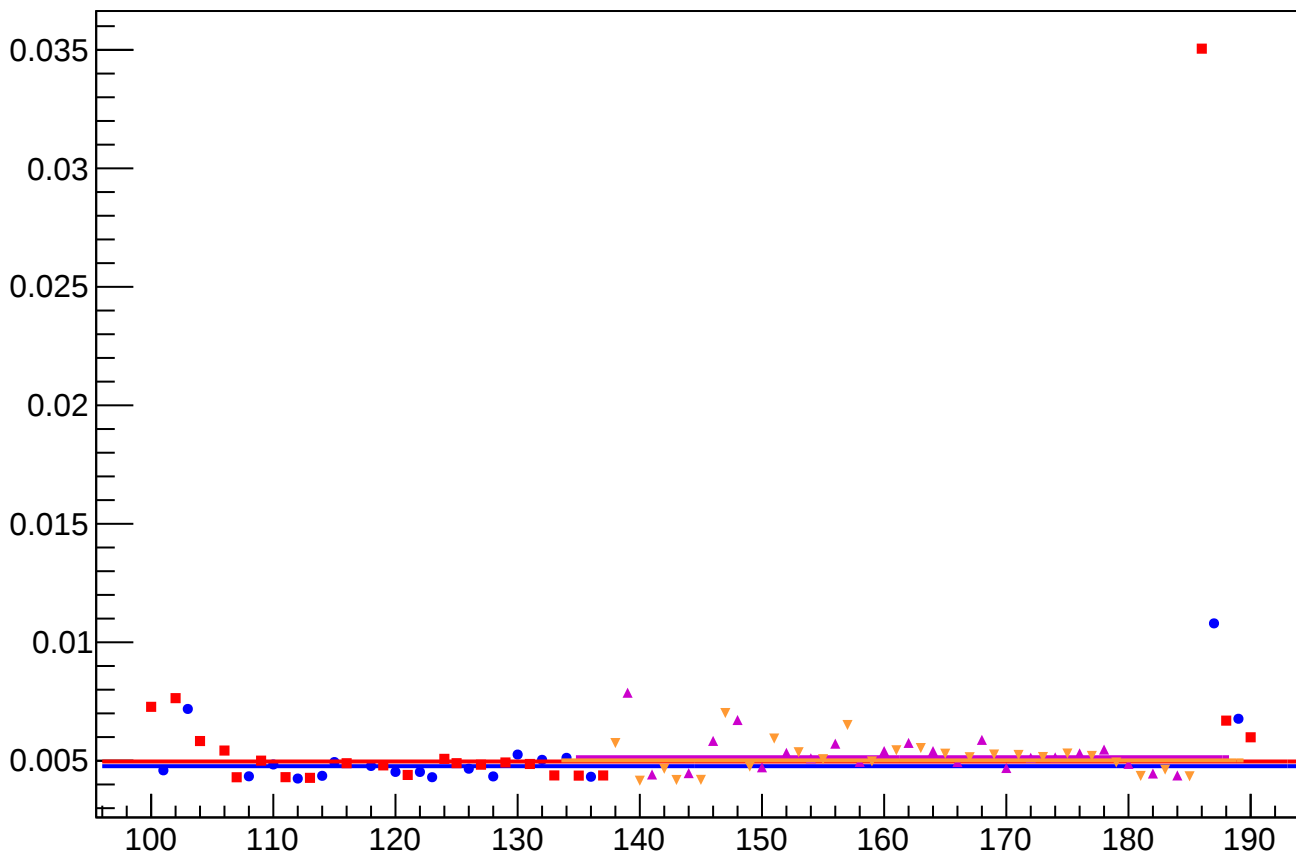
Right: -0.230+/-0.000 χ^2/NDF : 744490607.9/40

In: -0.226+/-0.000 χ^2/NDF : 224339708.7/41

Out: -0.228+/-0.000 χ^2/NDF : 560371488.1/46

All: -0.227+/-0.000 χ^2/NDF : 785575094.4/88

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 341689.7/18

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 921577.9/21

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

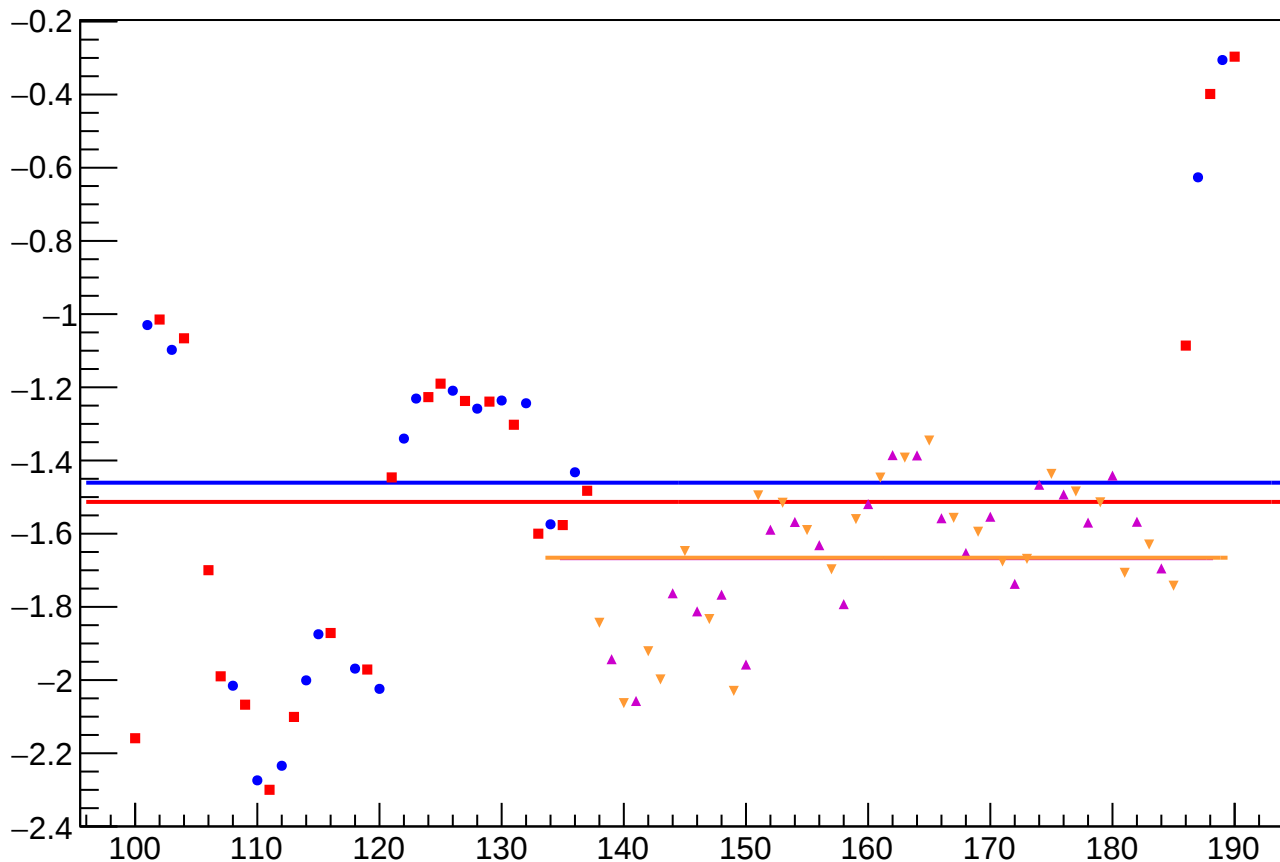
Right: 0.005+/-0.000 χ^2/NDF : 1274820.4/40

In: 0.005+/-0.000 χ^2/NDF : 901195.0/41

Out: 0.005+/-0.000 χ^2/NDF : 1455112.4/46

All: 0.005+/-0.000 χ^2/NDF : 2357117.8/88

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.461 $\pm$ 0.000 χ^2 /NDF: 27993737079.2/18

Left Out: -1.666 $\pm$ 0.000 χ^2 /NDF: 18368038680.8/24

Right Out: -1.513 $\pm$ 0.000 χ^2 /NDF: 46182499982.8/21

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

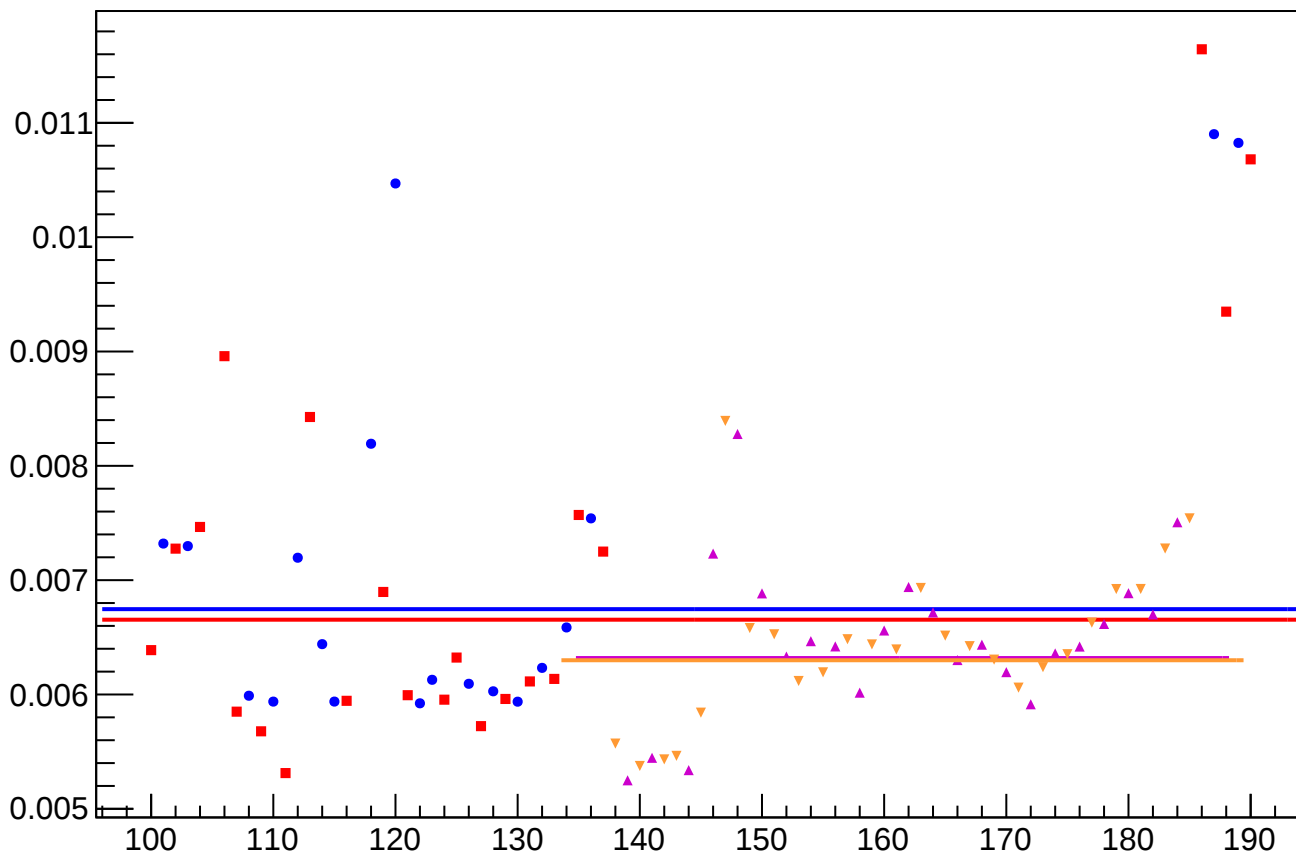
Right: -1.490 $\pm$ 0.000 χ^2 /NDF: 74394979121.8/40

In: -1.614 $\pm$ 0.000 χ^2 /NDF: 47123143914.6/41

Out: -1.622 $\pm$ 0.000 χ^2 /NDF: 67505053644.1/46

All: -1.618 $\pm$ 0.000 χ^2 /NDF: 114645926016.2

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 357638.9/18

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 620260.6/21

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

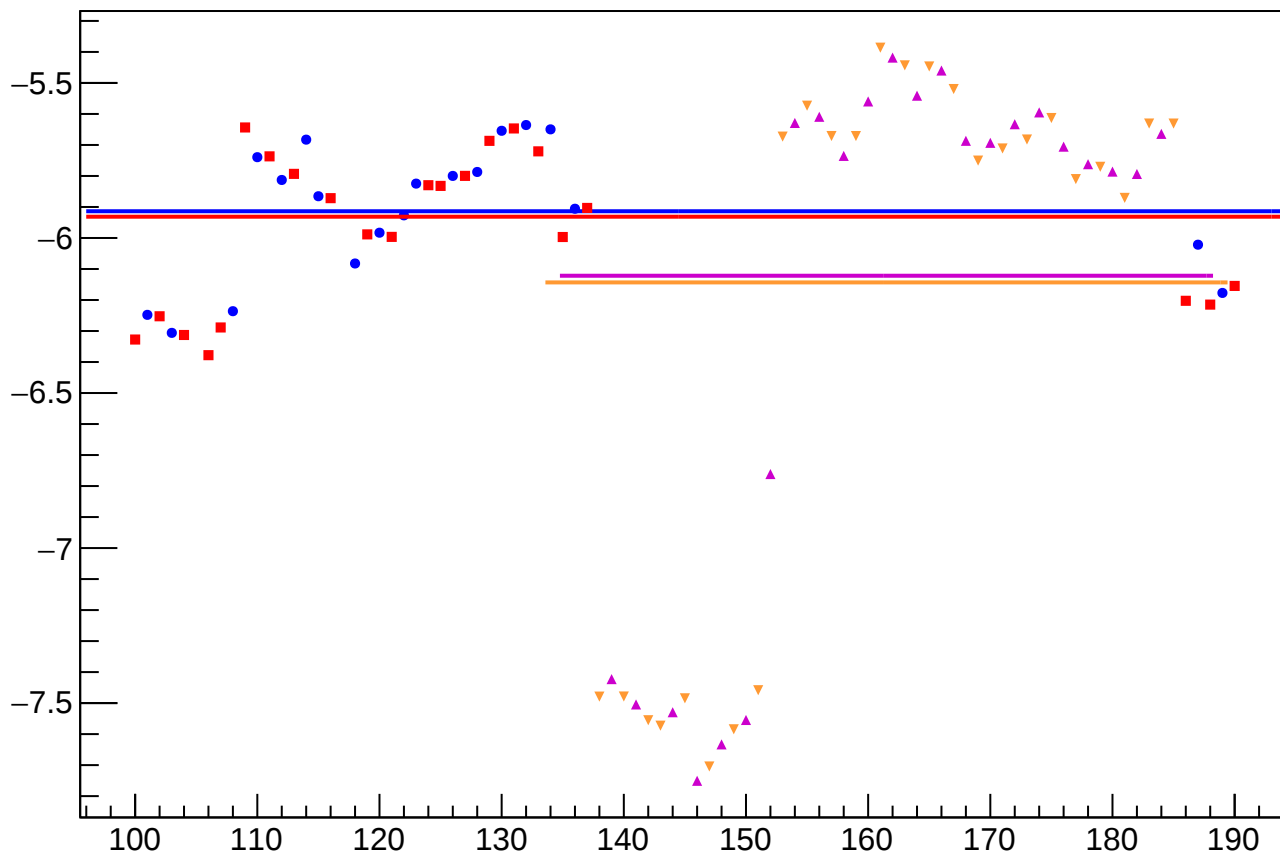
Right: 0.007+/-0.000 χ^2/NDF : 979249.4/40

In: 0.006+/-0.000 χ^2/NDF :730784.1/41

Out: 0.006+/-0.000 χ^2/NDF :965047.3/46

All: 0.006+/-0.000 χ^2/NDF : 1696256.7/88

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.914+/-0.000 χ^2/NDF : 11301128442.2/18

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.931+/-0.000 χ^2/NDF : 13563190391.0/21

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

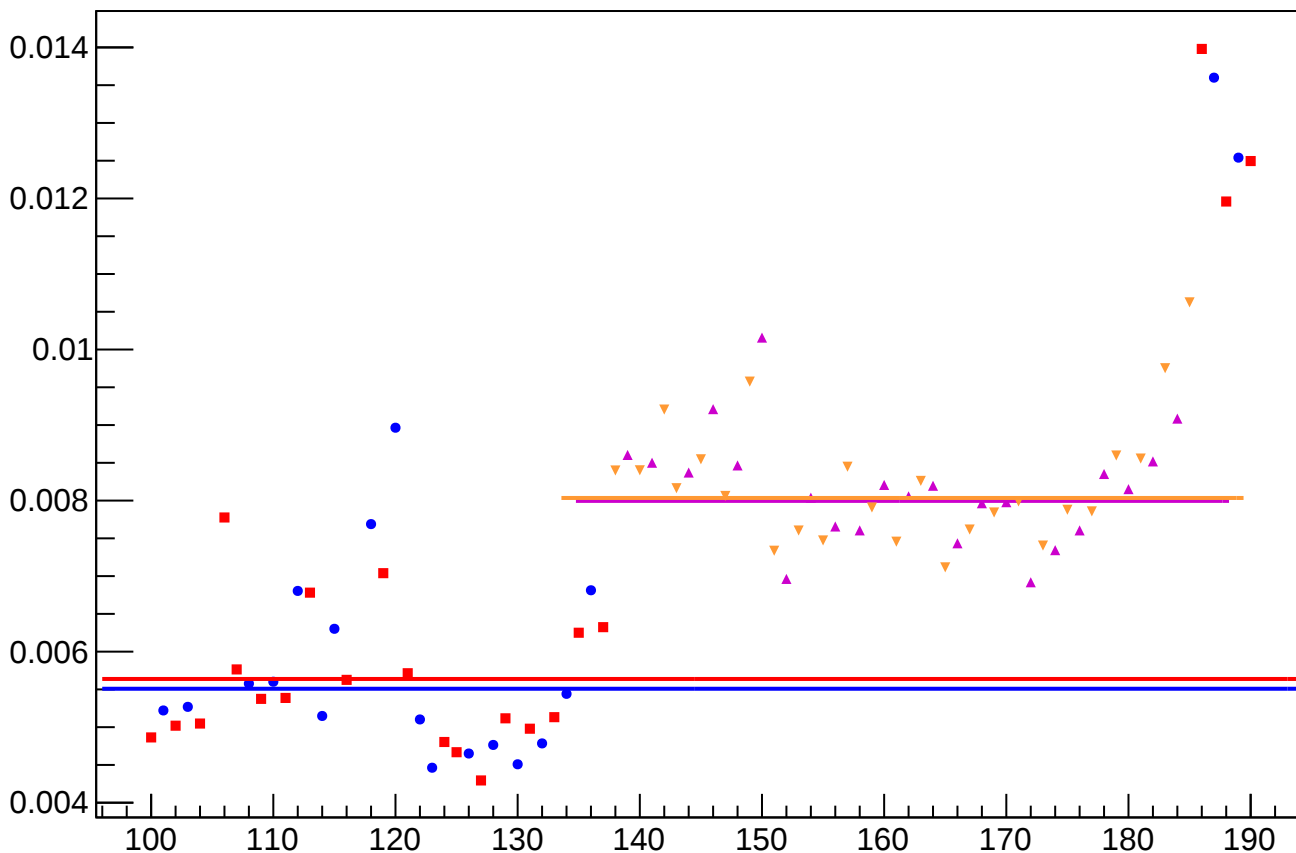
Right: -5.923+/-0.000 χ^2/NDF : 24897911843.3/40

In: -6.028+/-0.000 χ^2/NDF : 176068929056.2/41

Out: -6.043+/-0.000 χ^2/NDF : 204777652208.3/46

All: -6.036+/-0.000 χ^2/NDF : 380898023894.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 710854.5/18

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1210449.1/21

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

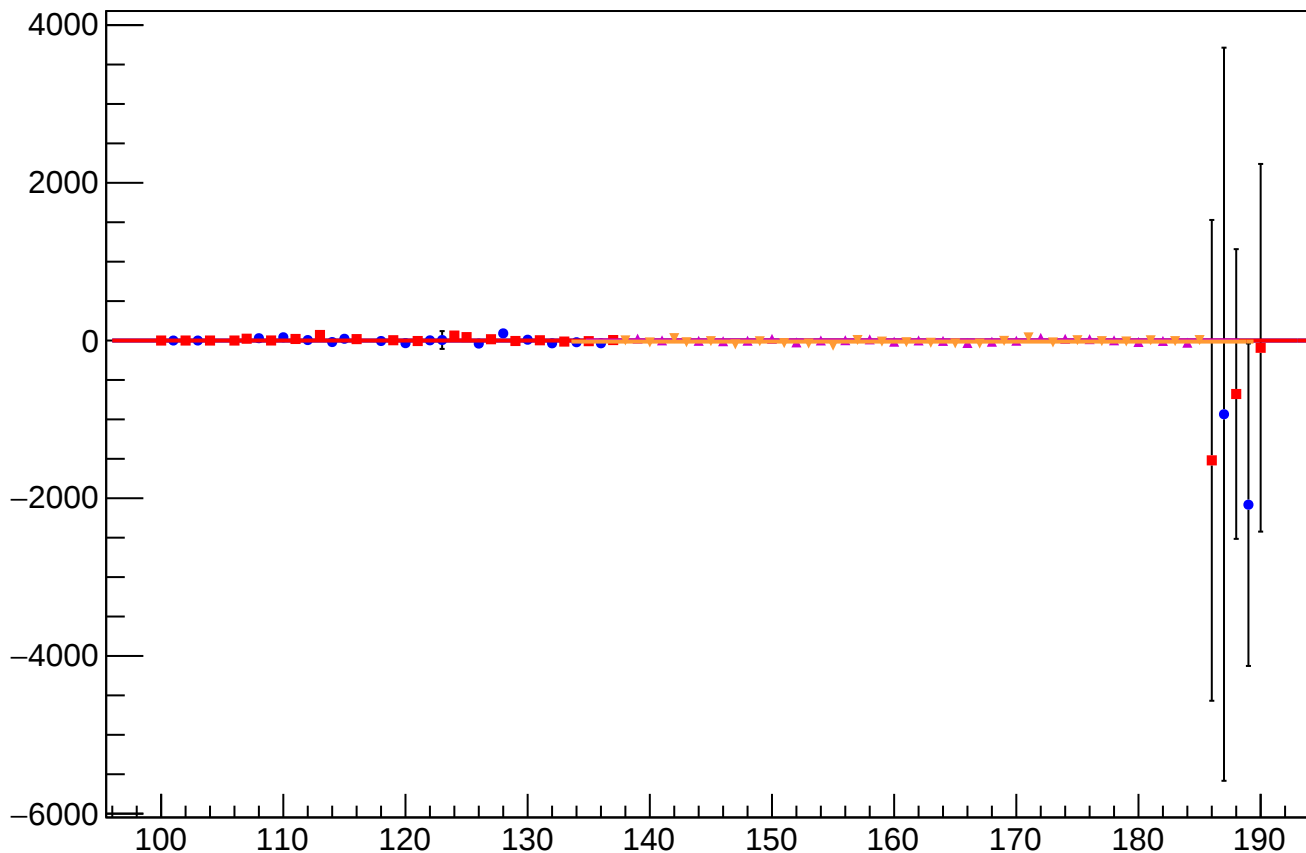
Right: 0.006+/-0.000 χ^2/NDF : 1924961.2/40

In: 0.007+/-0.000 χ^2/NDF :2320829.5/41

Out: 0.007+/-0.000 χ^2/NDF :2821061.4/46

All: 0.007+/-0.000 χ^2/NDF : 5142153.9/88

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 17.3/18$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 15.3/21$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

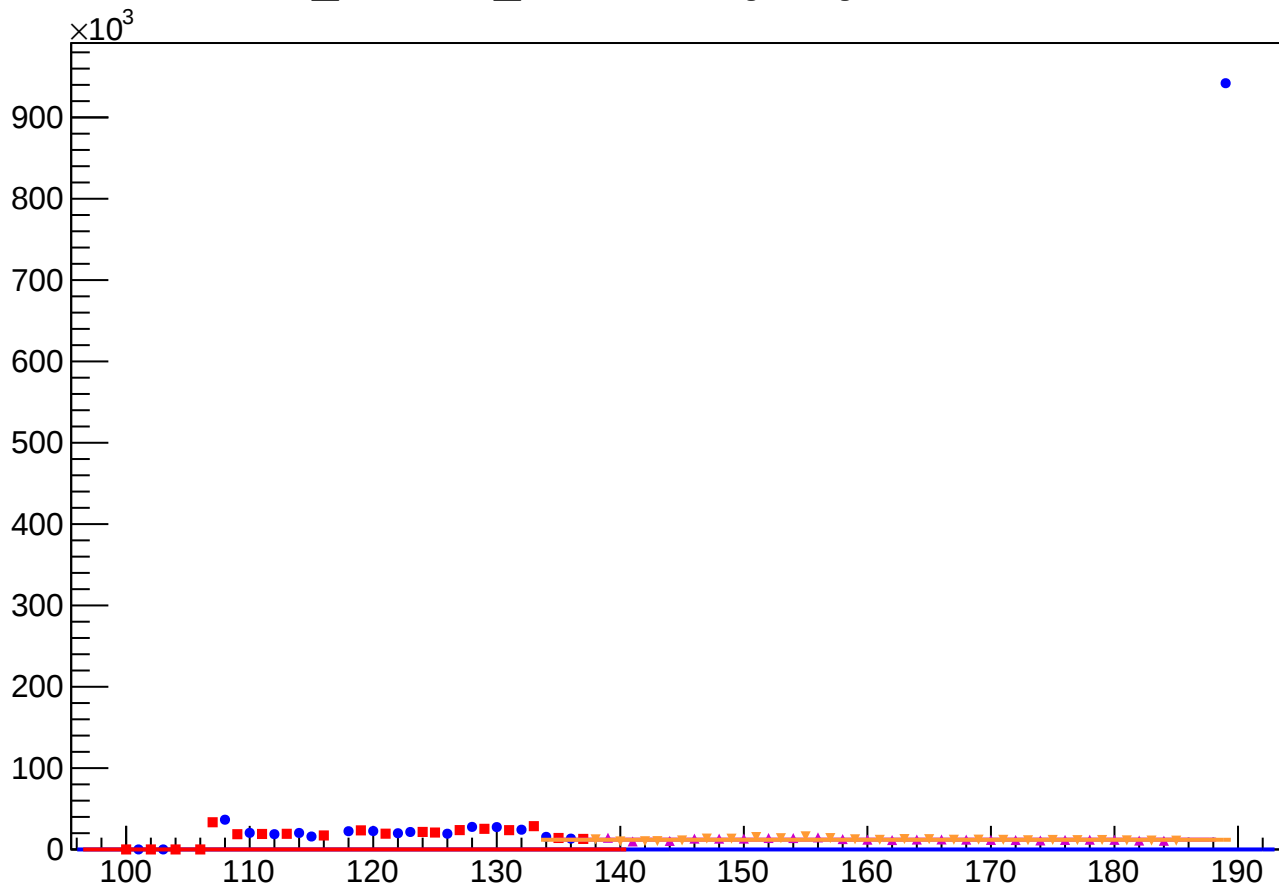
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 33.2/40$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 46.1/41$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 97.0/46$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 143.6/88$

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

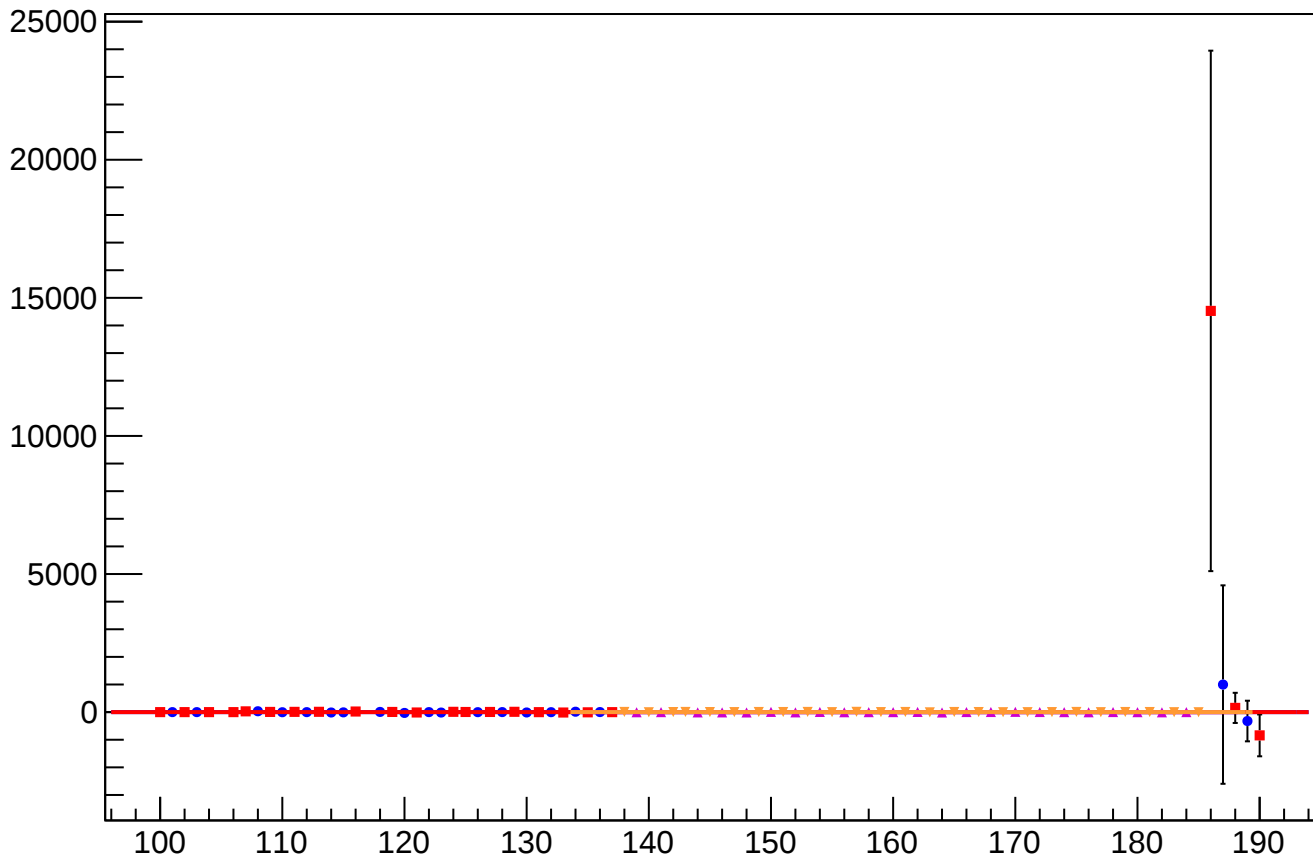
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

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 $\pm$ 0.009 χ^2/NDF : 14.9/18

Left Out: 1.675 $\pm$ 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2/NDF : 22.3/21

Left In: -0.843 $\pm$ 1.043 χ^2/NDF : 35.7/22

Left: 0.443 $\pm$ 0.730 χ^2/NDF : 56.5/47

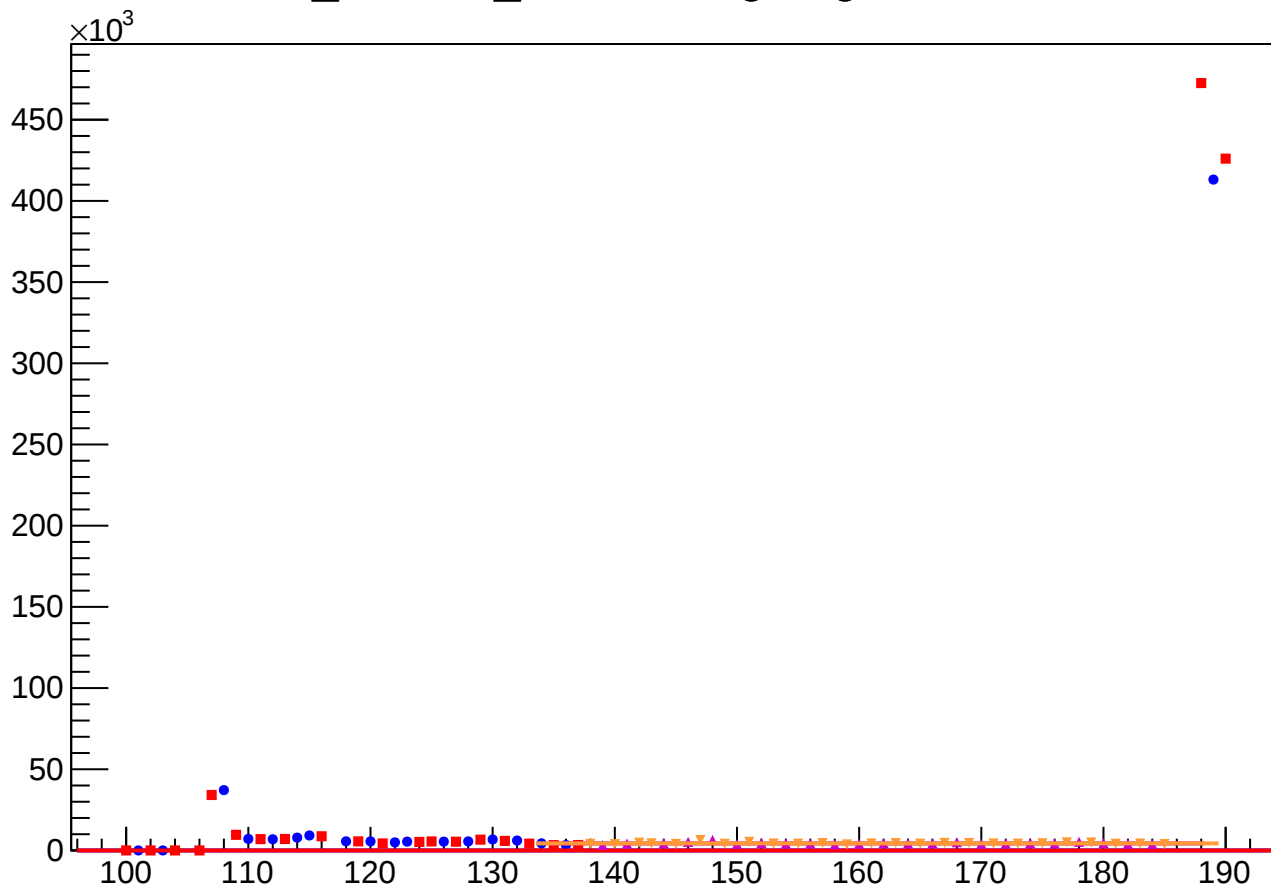
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 38.6/40

In: 0.001 $\pm$ 0.009 χ^2/NDF : 51.2/41

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 42.9/46

All: -0.007 $\pm$ 0.006 χ^2/NDF : 95.5/88

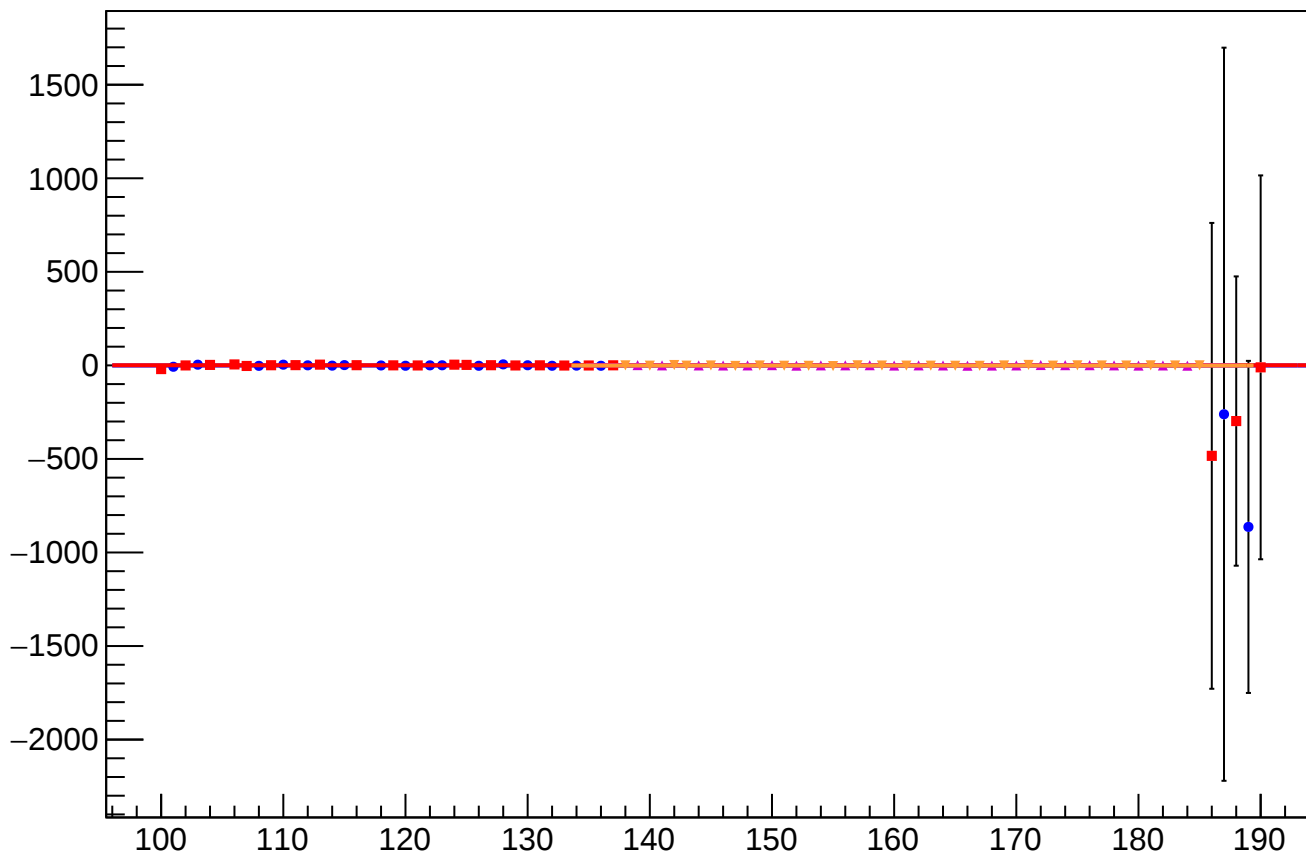
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 $\chi^2/\text{NDF}: 11534475.0/17$
 Left Out: 4350.545 ± 0.722 $\chi^2/\text{NDF}: 384749.0/24$
 Right Out: 9.854 ± 0.006 $\chi^2/\text{NDF}: 13209922.7/20$
 Left In: 4314.568 ± 0.738 $\chi^2/\text{NDF}: 534594.3/22$

Left: 4332.940 ± 0.516 $\chi^2/\text{NDF}: 920558.3/47$
 Right: 9.893 ± 0.004 $\chi^2/\text{NDF}: 24744485.4/38$
 In: 10.273 ± 0.007 $\chi^2/\text{NDF}: 46130506.6/40$
 Out: 10.166 ± 0.006 $\chi^2/\text{NDF}: 49739652.8/45$
 All: 10.216 ± 0.004 $\chi^2/\text{NDF}: 95870303.2/86$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.702 ± 0.485 $\chi^2/\text{NDF}: 23.5/18$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.760 ± 0.502 $\chi^2/\text{NDF}: 12.1/21$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

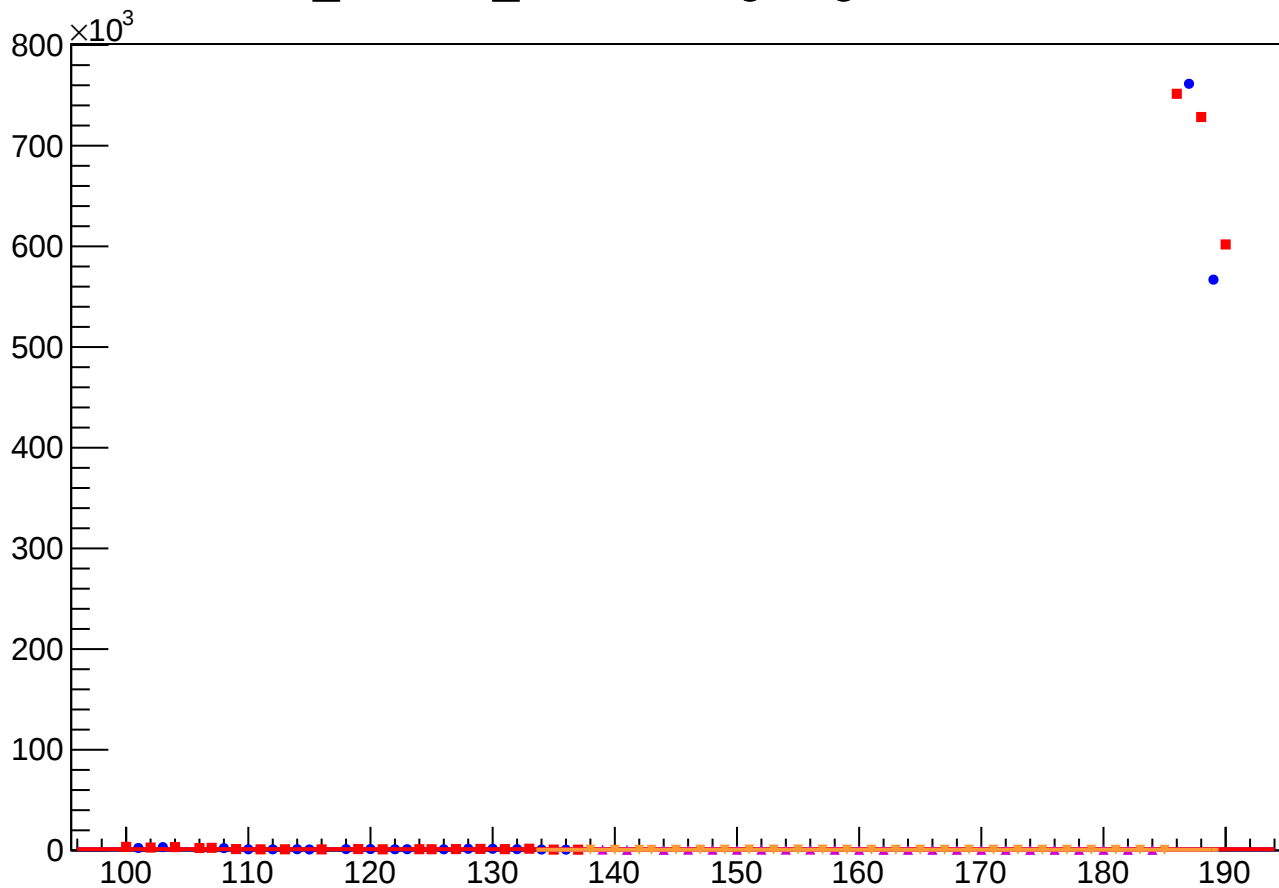
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 39.9/40$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 54.7/41$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 78.9/46$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 139.9/88$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1164.427 $\pm$ 0.343 χ^2 /NDF: 2700131.6/18

Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF: 392521.4/24

Right Out: 1249.840 $\pm$ 0.355 χ^2 /NDF: 4798173.7/21

Left In: 706.950 $\pm$ 0.120 χ^2 /NDF: 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47

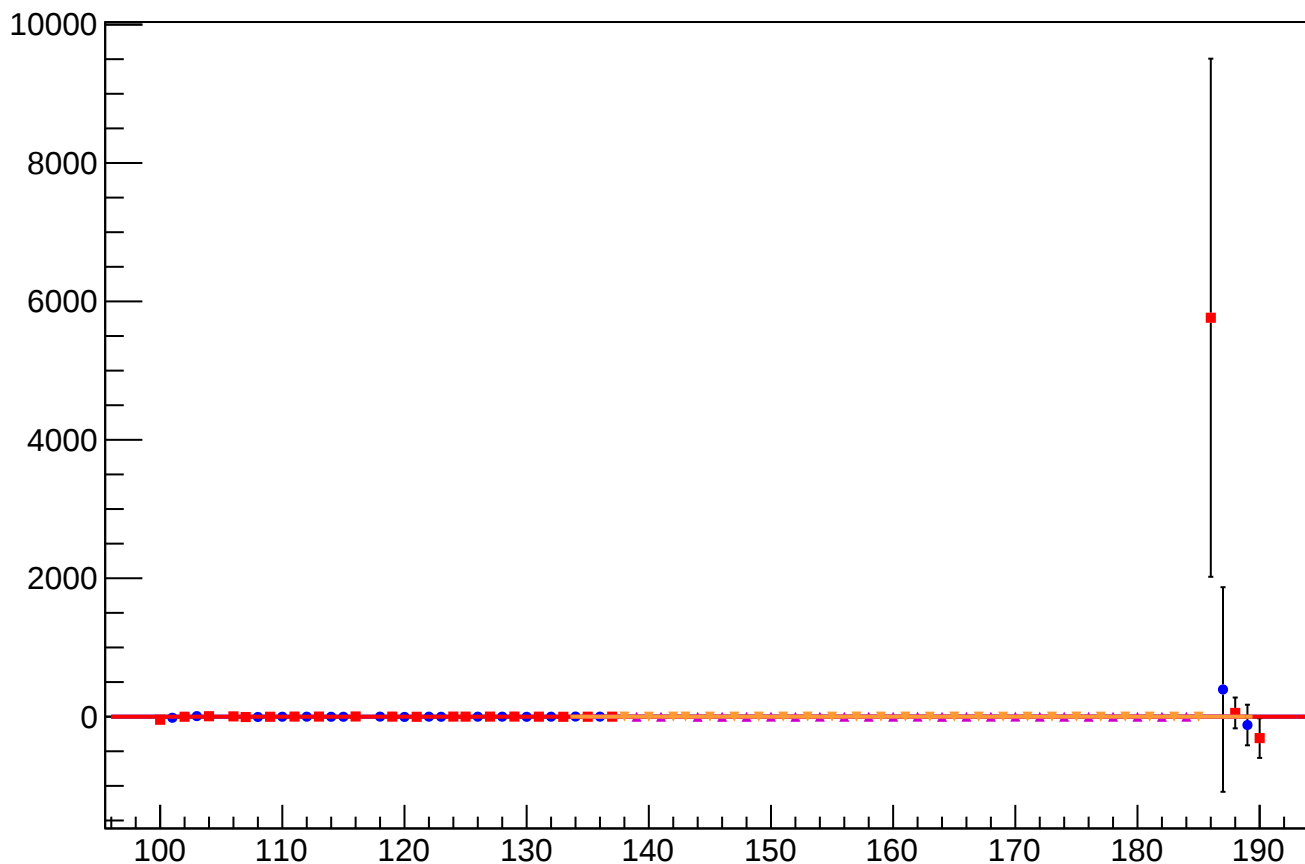
Right: 1205.656 $\pm$ 0.247 χ^2 /NDF: 7528245.0/40

In: 757.068 $\pm$ 0.114 χ^2 /NDF: 4622726.0/41

Out: 753.902 $\pm$ 0.110 χ^2 /NDF: 7350893.8/46

All: 755.441 $\pm$ 0.079 χ^2 /NDF: 11974019.3/88

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.271 χ^2/NDF : 21.2/18

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 24.3/21

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

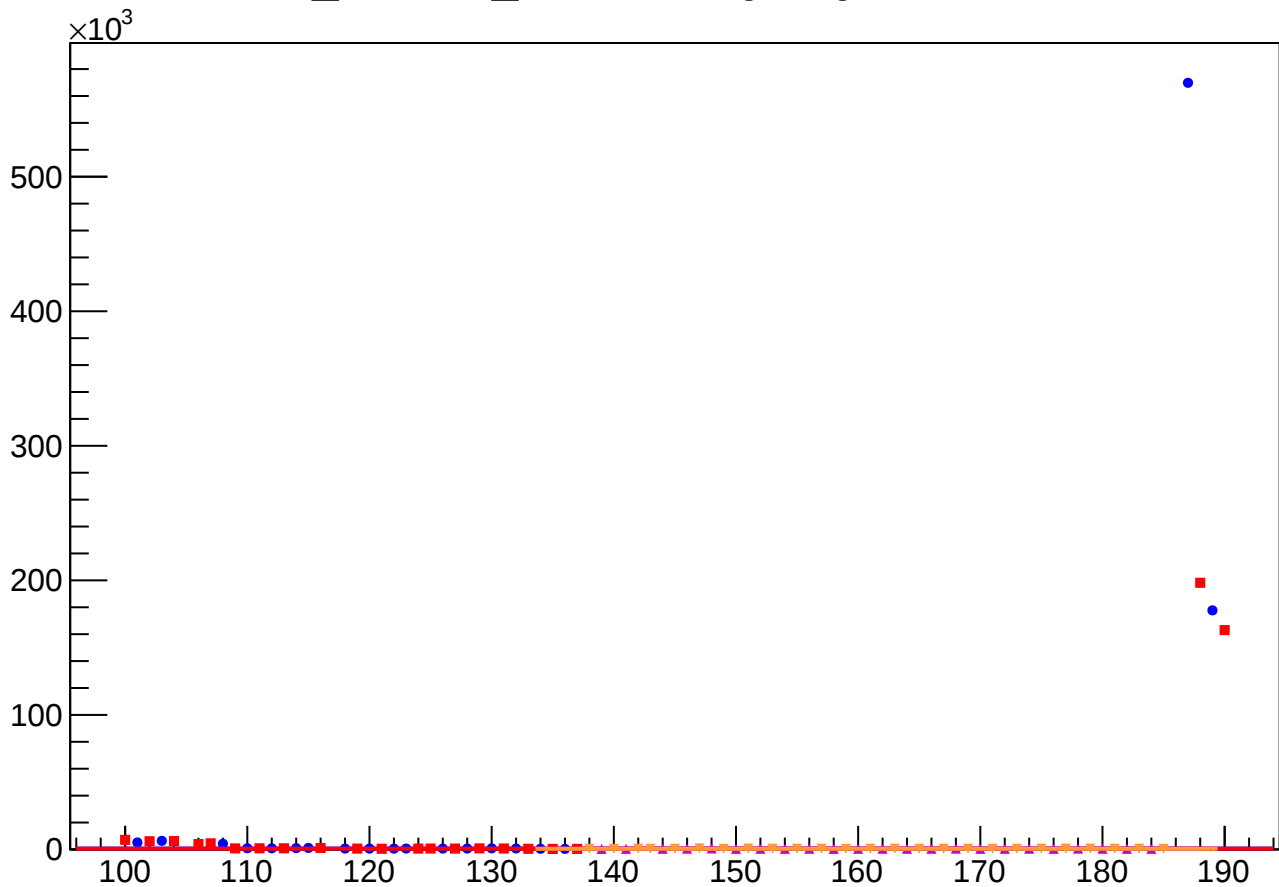
Right: -0.154 ± 0.189 χ^2/NDF : 45.7/40

In: -0.105 ± 0.114 χ^2/NDF : 56.2/41

Out: 0.152 ± 0.111 χ^2/NDF : 44.6/46

All: 0.026 ± 0.080 χ^2/NDF : 103.4/88

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 608.759 $\pm$ 0.191 χ^2 /NDF: 4163317.3/18

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF: 331573.1/24

Right Out: 600.134 $\pm$ 0.187 χ^2 /NDF: 5768616.0/20

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

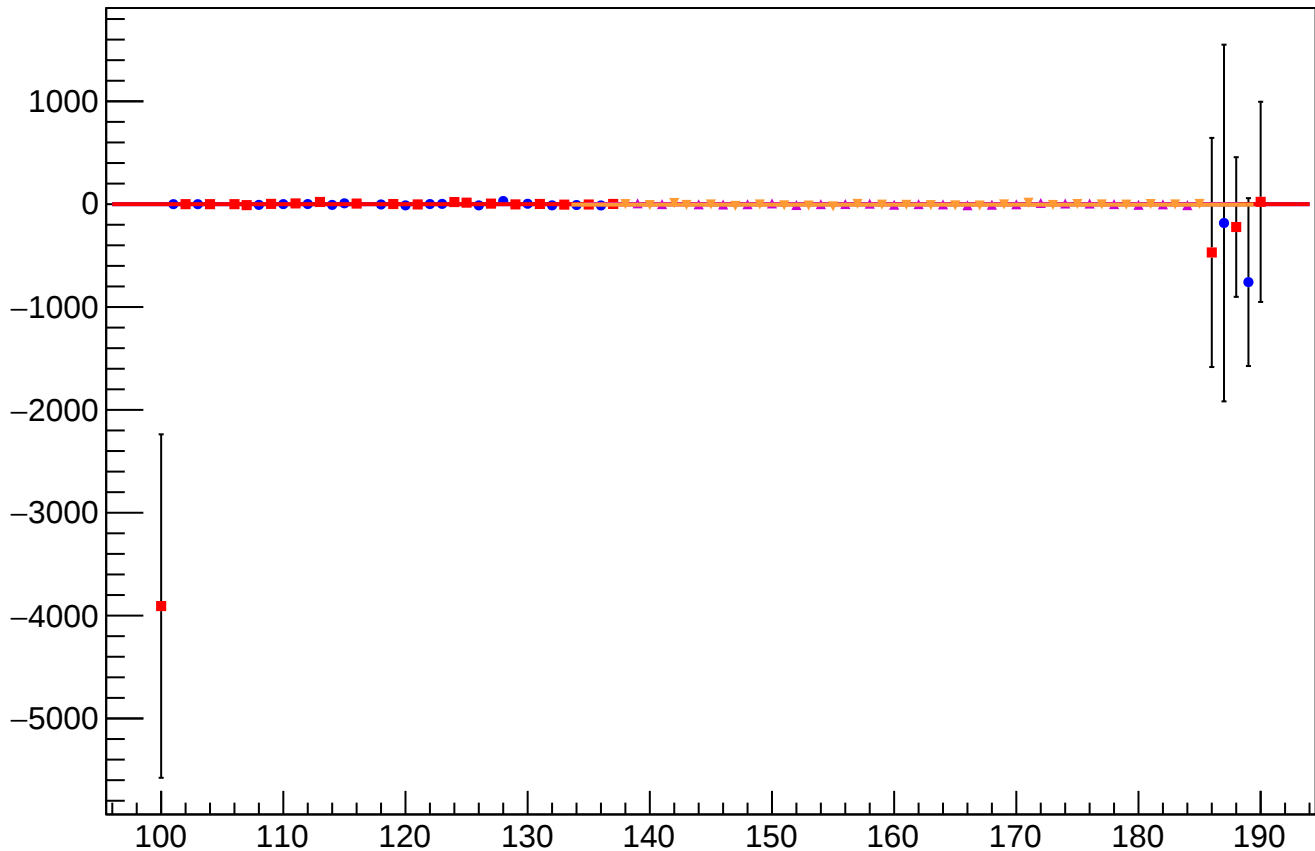
Right: 604.355 $\pm$ 0.134 χ^2 /NDF: 9932971.1/39

In: 535.639 $\pm$ 0.081 χ^2 /NDF: 4785555.3/41

Out: 536.109 $\pm$ 0.079 χ^2 /NDF: 6242064.9/45

All: 535.880 $\pm$ 0.056 χ^2 /NDF: 11027637.7/87

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 16.5/18

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 17.1/21

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

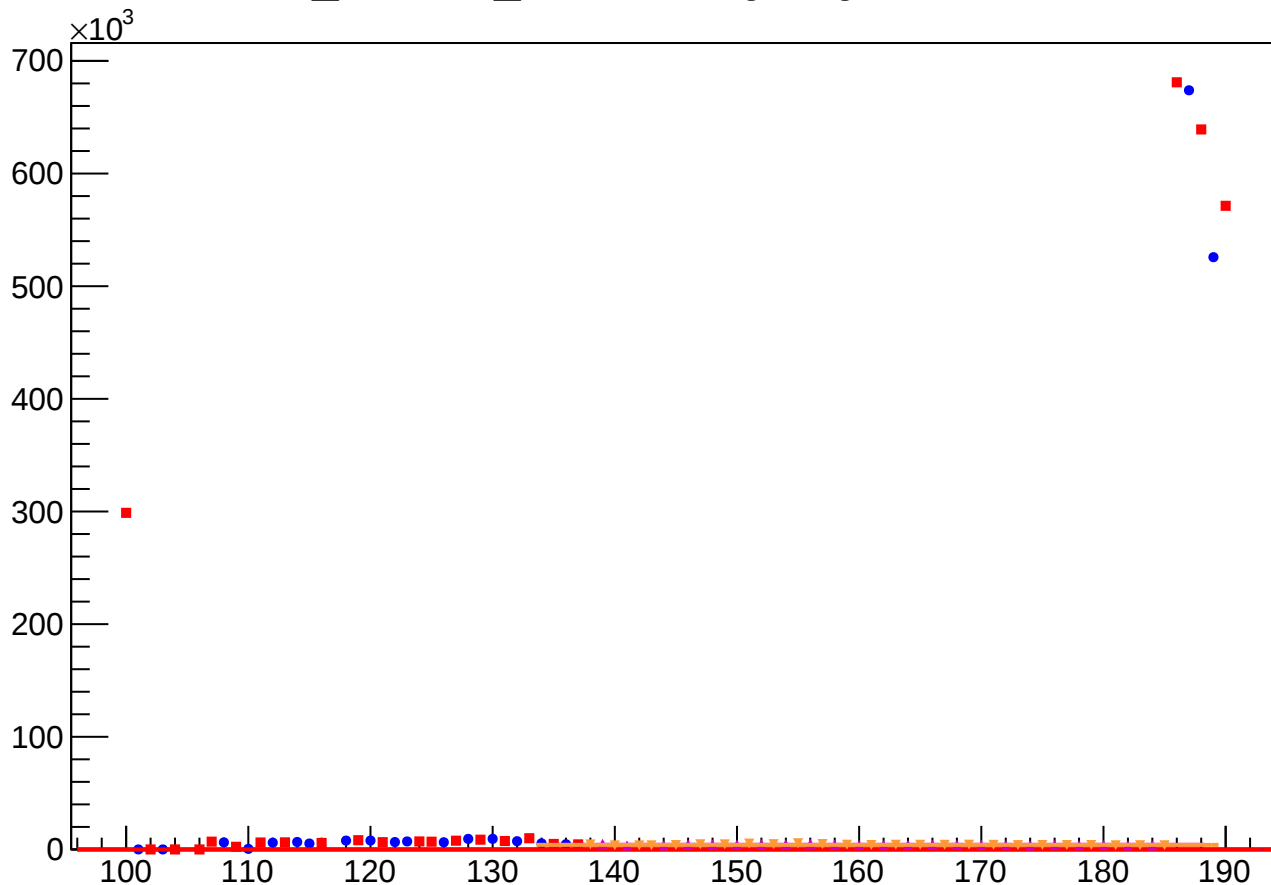
Right: 0.004+/-0.014 χ^2/NDF : 36.4/40

In: -0.022+/-0.021 χ^2/NDF : 45.8/41

Out: 0.025+/-0.020 χ^2/NDF : 97.5/46

All: 0.003+/-0.014 χ^2/NDF : 145.9/88

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.336+/-0.015 χ^2 /NDF: 11447676.3/18

Left Out: 4074.257+/-0.676 χ^2 /NDF: 416916.0/24

Right Out: 17.268+/-0.014 χ^2 /NDF: 13967969.1/21

Left In: 4113.744+/-0.700 χ^2 /NDF: 354965.8/22

Left: 4093.298+/-0.486 χ^2 /NDF: 773528.6/47

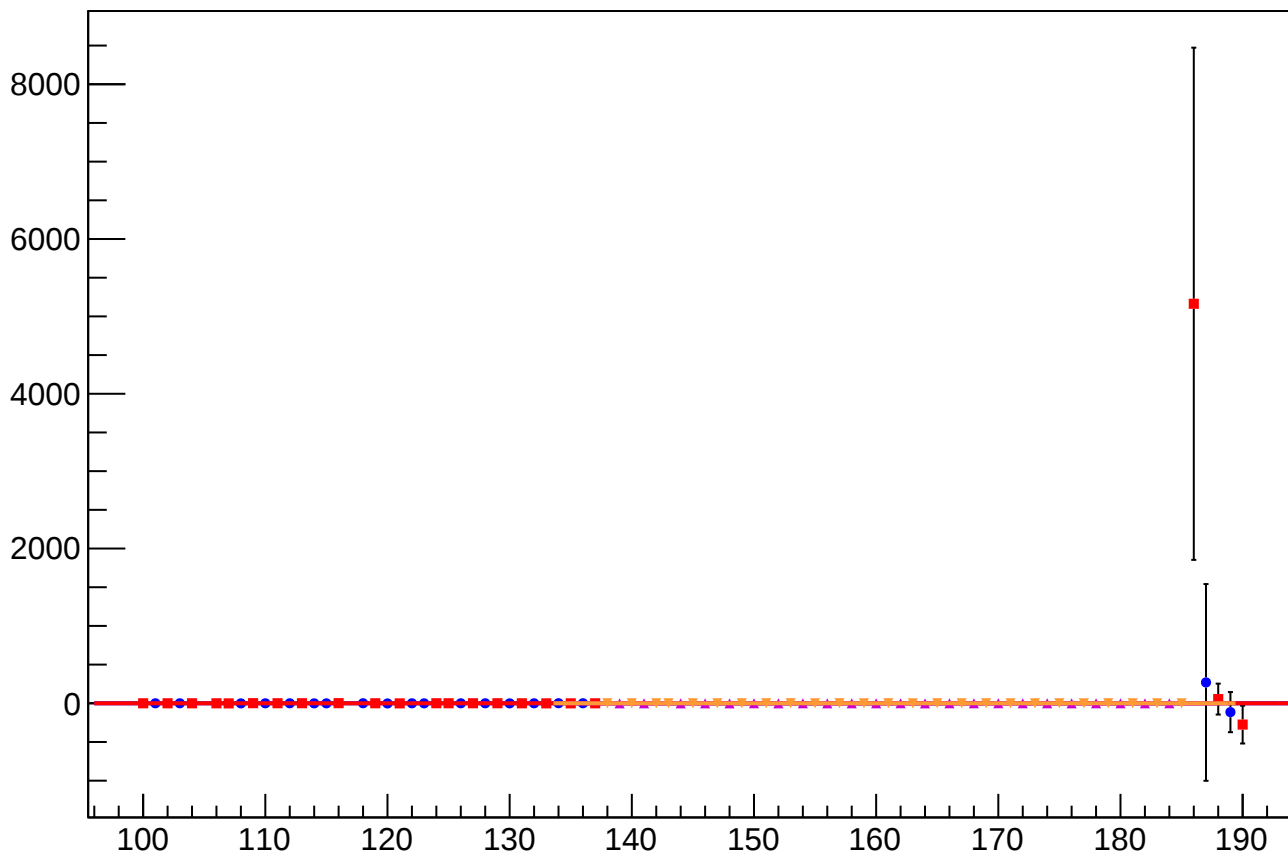
Right: 17.300+/-0.010 χ^2 /NDF: 25415656.5/40

In: 19.142+/-0.015 χ^2 /NDF: 46016917.4/41

Out: 19.005+/-0.014 χ^2 /NDF: 50420947.0/46

All: 19.070+/-0.010 χ^2 /NDF: 96437909.7/88

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 15.6/18

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 21.8/21

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

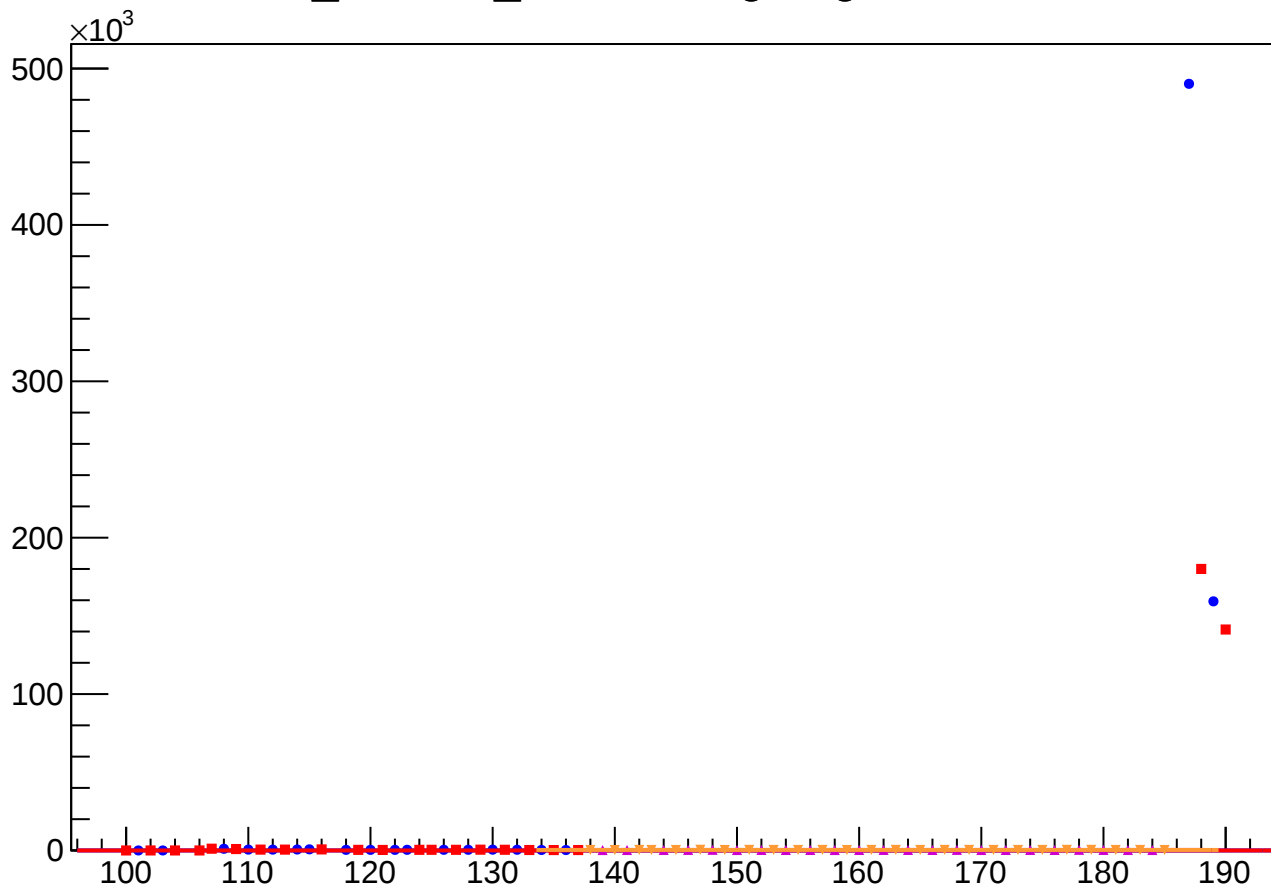
Right: -0.000 ± 0.001 χ^2/NDF : 37.6/40

In: 0.000 ± 0.002 χ^2/NDF : 51.3/41

Out: -0.001 ± 0.002 χ^2/NDF : 42.6/46

All: -0.000 ± 0.001 χ^2/NDF : 94.0/88

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 11916633.7/18

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 12982687.2/20

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

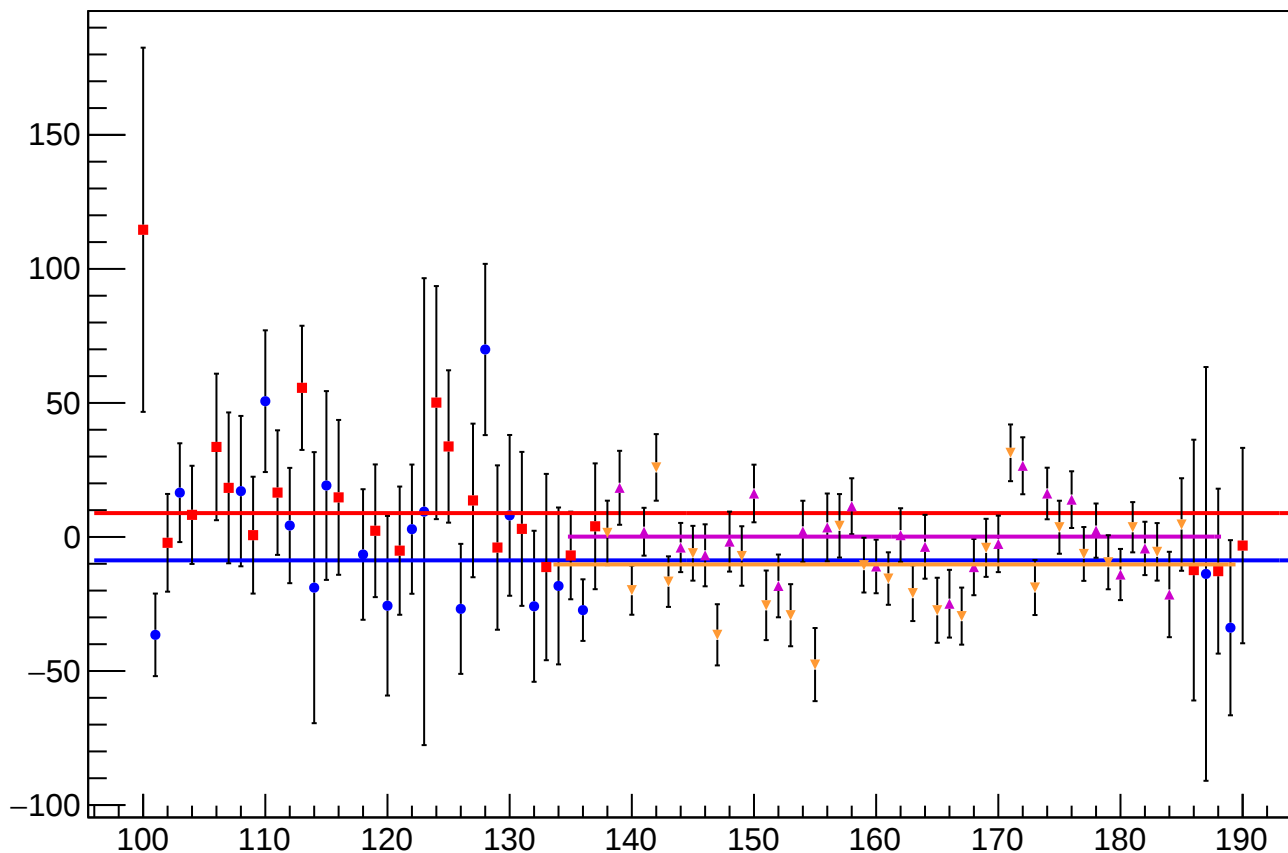
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 24899548.1/39

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 46320097.3/41

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 49290535.3/45

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 95610770.6/87

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.728+/-5.542 χ^2/NDF : 23.2/18

Left Out: -10.235+/-2.167 χ^2/NDF : 58.0/24

Right Out: 8.905+/-5.497 χ^2/NDF : 12.5/21

Left In: 0.130+/-2.242 χ^2/NDF : 29.8/22

Left: -5.230+/-1.558 χ^2/NDF : 98.9/47

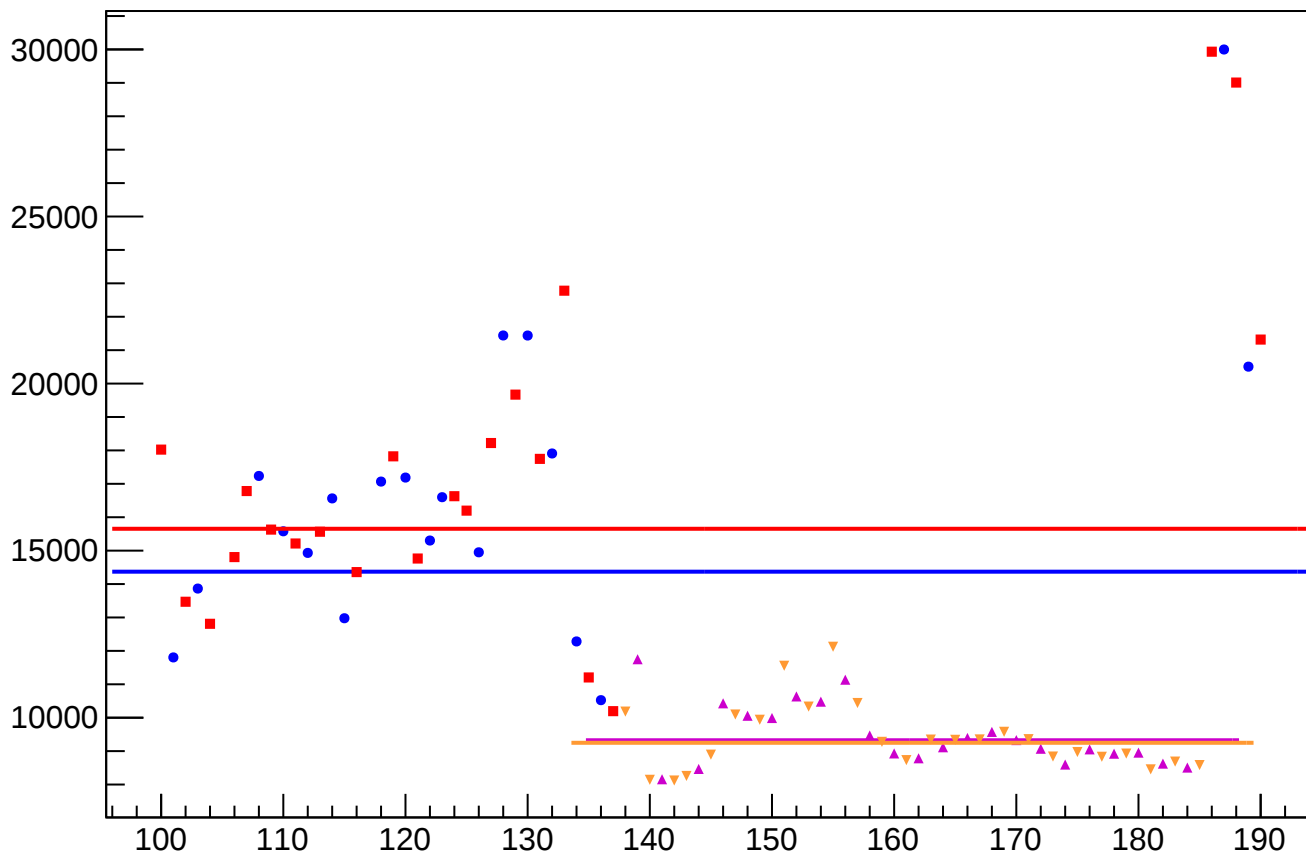
Right: 0.161+/-3.903 χ^2/NDF : 40.8/40

In: -1.116+/-2.079 χ^2/NDF : 55.2/41

Out: -7.661+/-2.016 χ^2/NDF : 81.0/46

All: -4.489+/-1.447 χ^2/NDF : 141.3/88

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14370.340 $\pm$ 3.919 χ^2 /NDF: 761880.3/18

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 15654.493 $\pm$ 3.887 χ^2 /NDF: 1108269.7/21

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

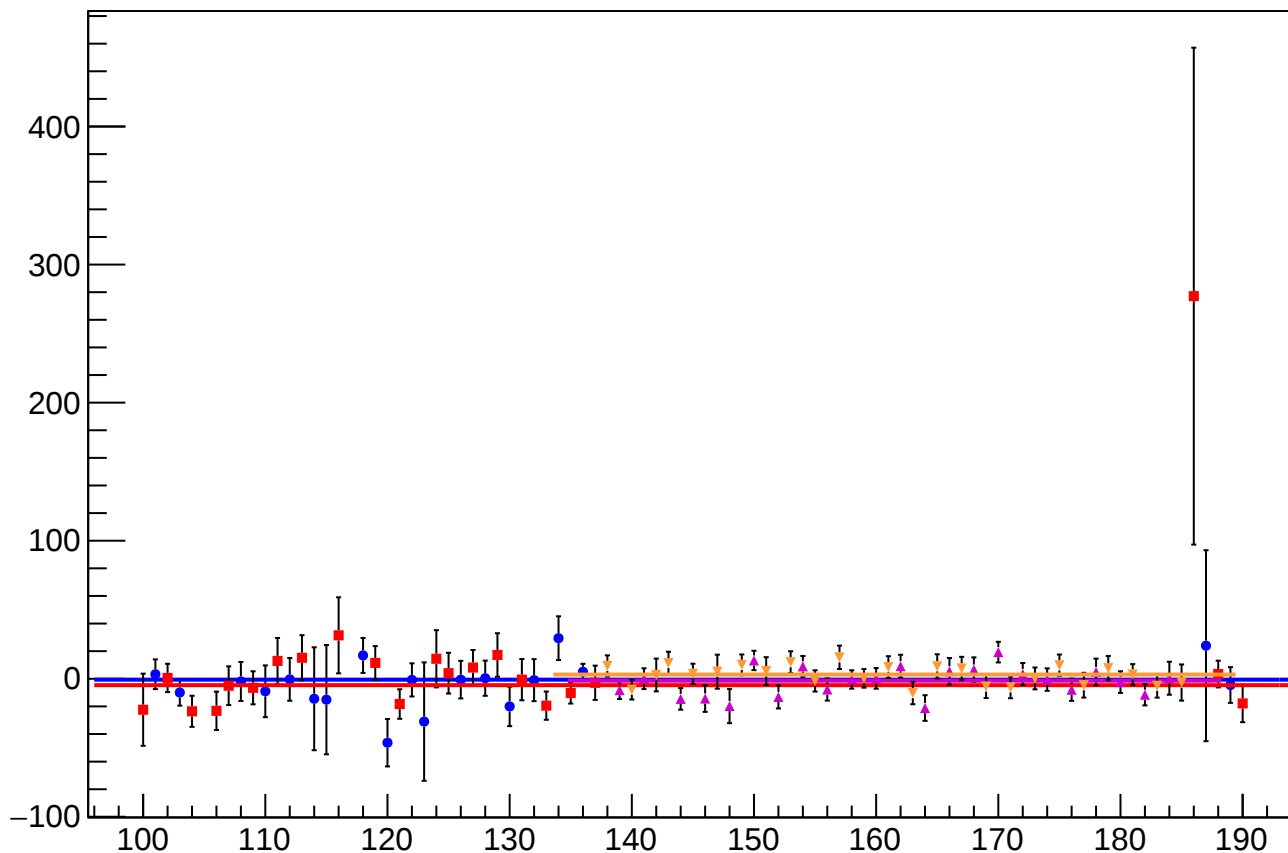
Right: 15017.669 $\pm$ 2.760 χ^2 /NDF: 1924276.4/40

In: 10034.751 $\pm$ 1.470 χ^2 /NDF:2467091.7/41

Out: 10110.613 $\pm$ 1.425 χ^2 /NDF:3790530.3/46

All: 10073.846 $\pm$ 1.023 χ^2 /NDF: 6258994.9/86

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.628 $\pm$ 3.002 χ^2/NDF : 17.7/18

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -4.615 $\pm$ 2.759 χ^2/NDF : 24.0/21

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

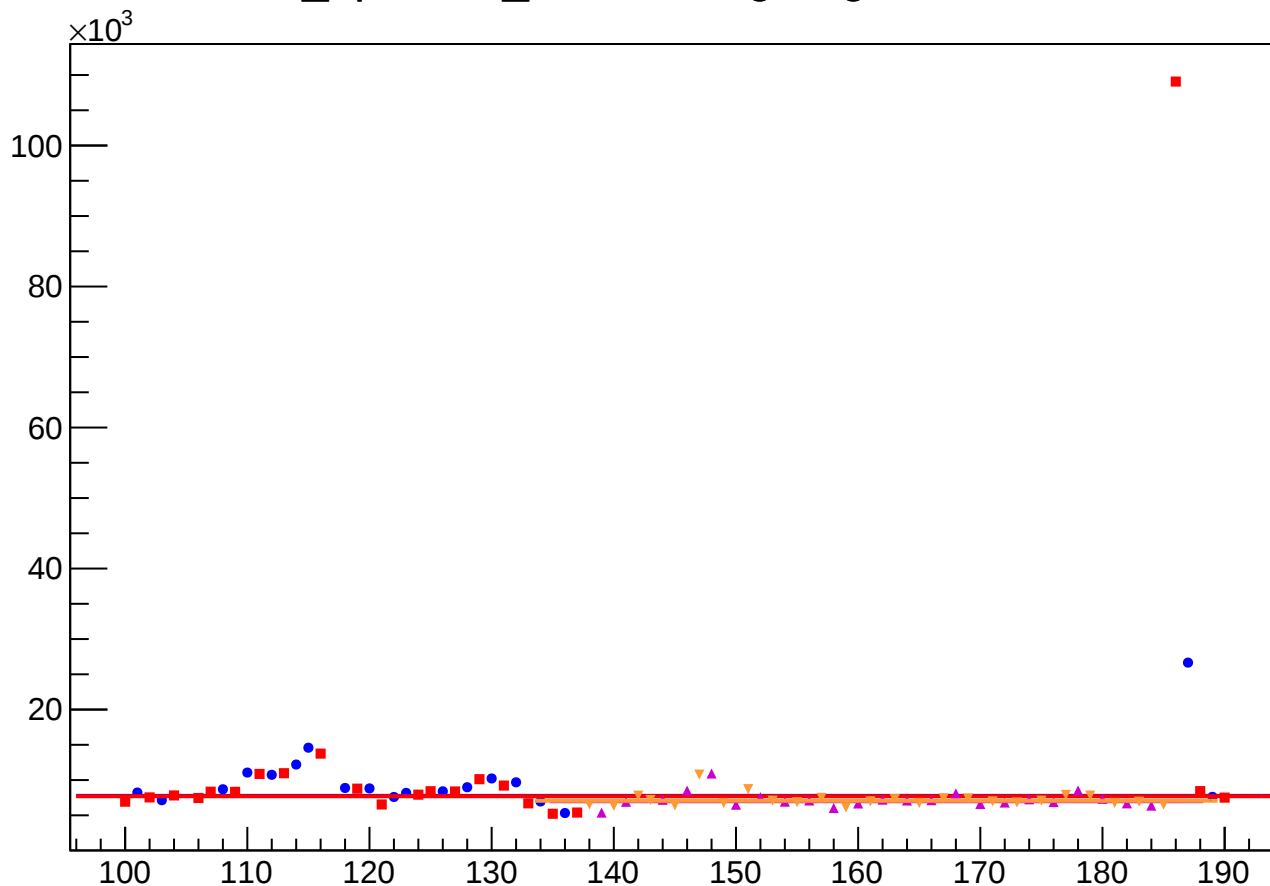
Right: -2.789 $\pm$ 2.032 χ^2/NDF : 42.6/40

In: -1.209 $\pm$ 1.475 χ^2/NDF : 53.1/41

Out: 1.024 $\pm$ 1.422 χ^2/NDF : 48.0/46

All: -0.052 $\pm$ 1.024 χ^2/NDF : 102.2/88

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7756.485 $\pm$ 2.123 χ^2/NDF : 892353.9/18

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 7705.085 $\pm$ 1.951 χ^2/NDF : 1327043.9/21

Left In: 7000.532 $\pm$ 1.197 χ^2/NDF : 550029.3/22

Left: 7034.358 $\pm$ 0.838 χ^2/NDF : 939043.5/47

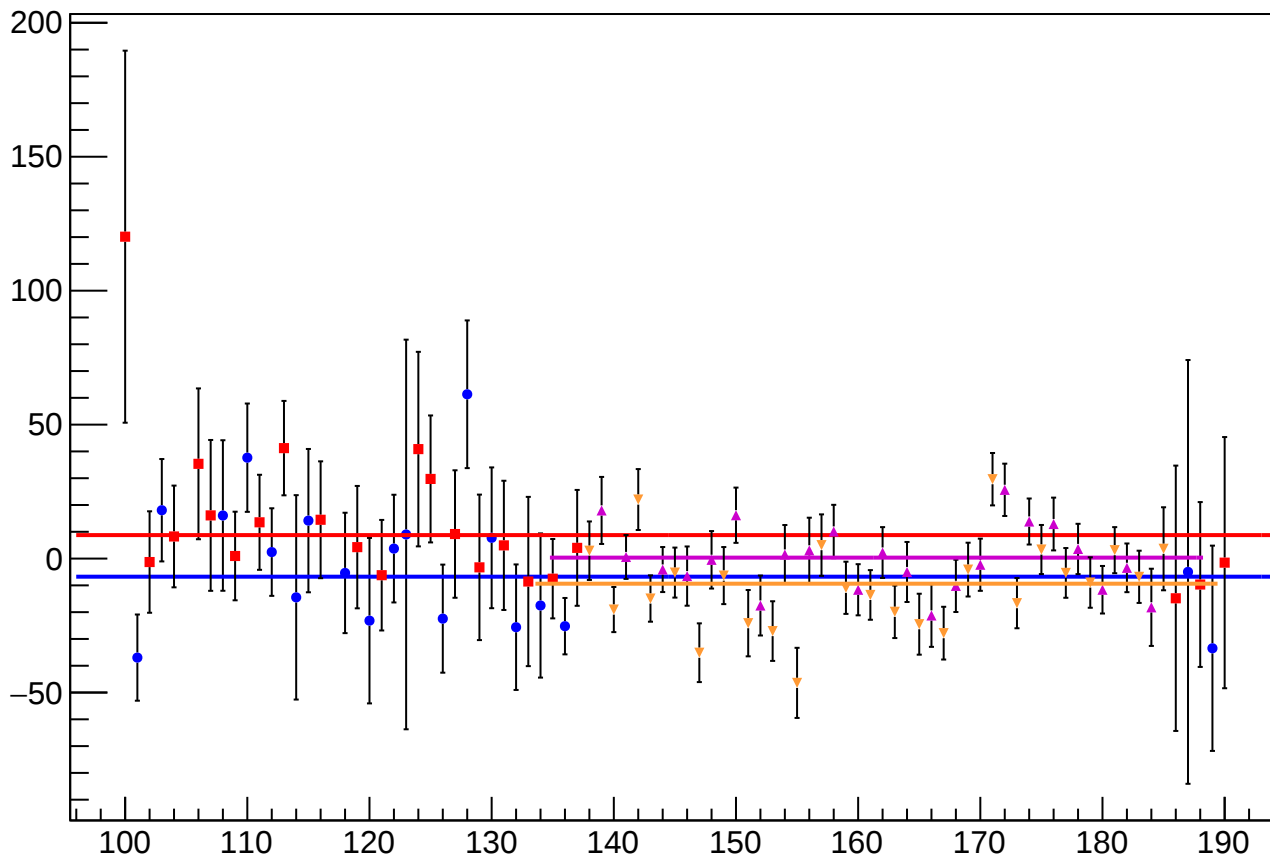
Right: 7728.622 $\pm$ 1.436 χ^2/NDF : 2219715.7/40

In: 7182.966 $\pm$ 1.043 χ^2/NDF : 1538593.8/41

Out: 7236.273 $\pm$ 1.005 χ^2/NDF : 1793099.5/46

All: 7210.597 $\pm$ 0.724 χ^2/NDF : 3333047.6/88

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.759 ± 4.992 $\chi^2/\text{NDF}: 23.7/18$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 8.765 ± 4.896 $\chi^2/\text{NDF}: 12.1/21$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

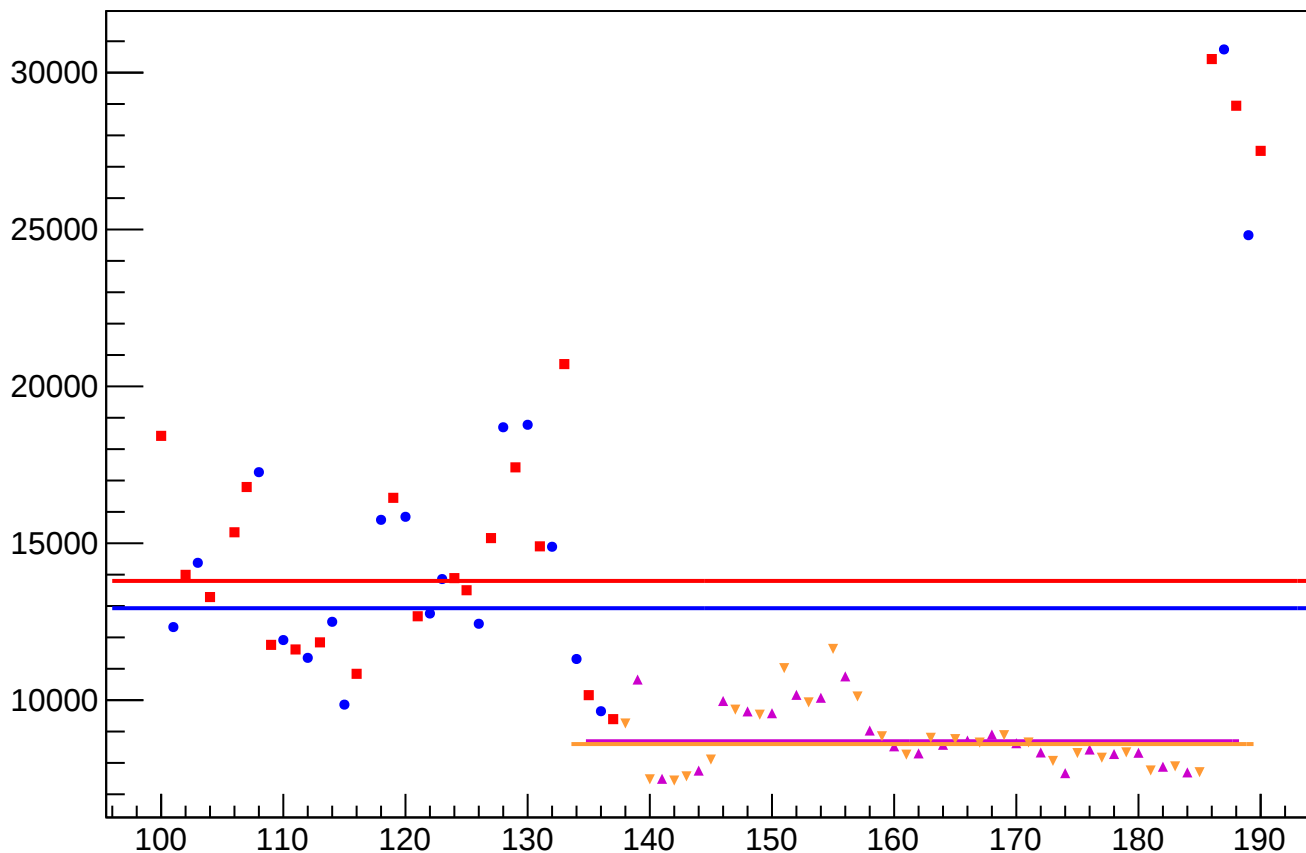
Right: 1.154 ± 3.496 $\chi^2/\text{NDF}: 40.7/40$

In: -0.709 ± 1.930 $\chi^2/\text{NDF}: 55.0/41$

Out: -6.743 ± 1.866 $\chi^2/\text{NDF}: 82.3/46$

All: -3.828 ± 1.341 $\chi^2/\text{NDF}: 142.3/88$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12930.709 ± 3.530 $\chi^2/\text{NDF}: 859409.1/18$

Left Out: 8600.457 ± 1.427 $\chi^2/\text{NDF}: 438229.4/24$

Right Out: 13799.940 ± 3.462 $\chi^2/\text{NDF}: 1421455.4/21$

Left In: 8690.209 ± 1.479 $\chi^2/\text{NDF}: 370834.1/22$

Left: 8643.707 ± 1.027 $\chi^2/\text{NDF}: 810970.4/47$

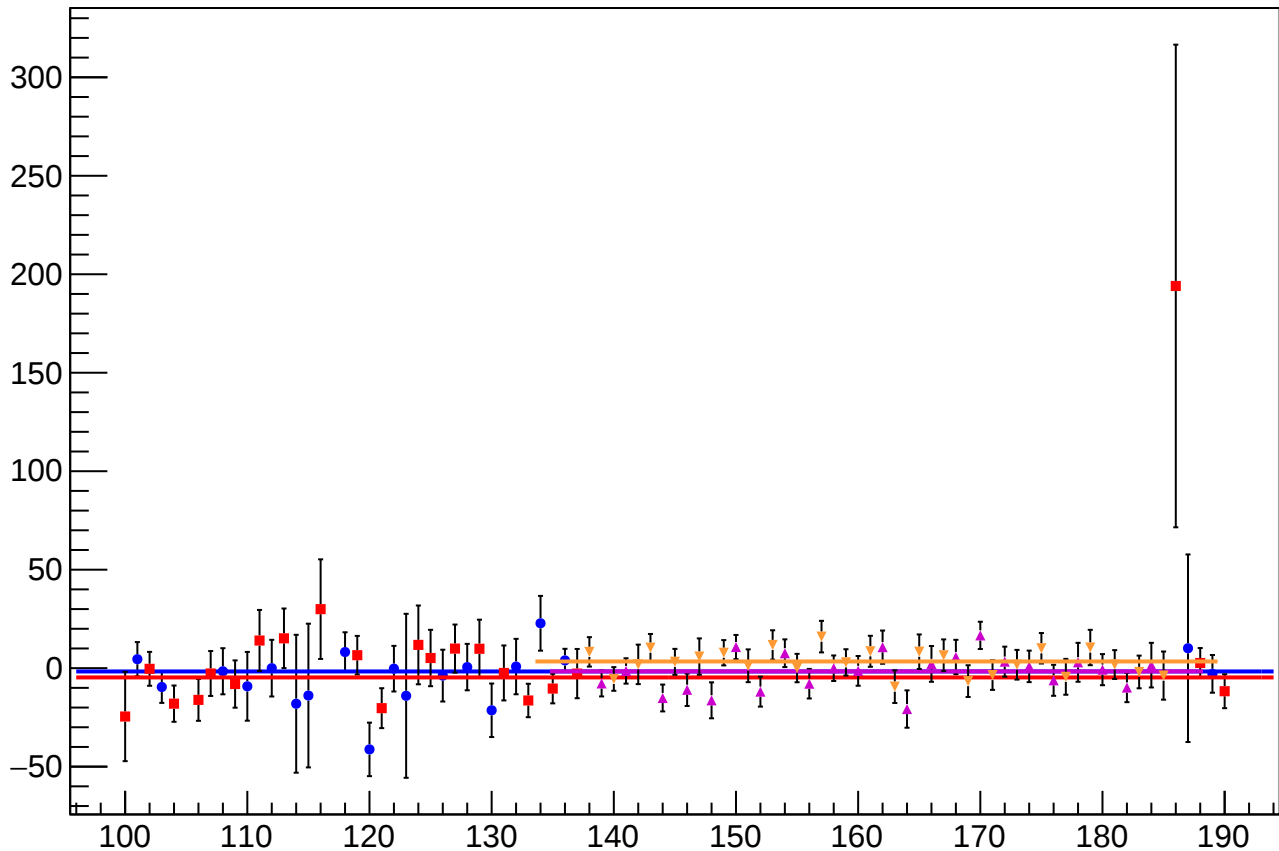
Right: 13373.738 ± 2.472 $\chi^2/\text{NDF}: 2311770.4/40$

In: 9323.782 ± 1.364 $\chi^2/\text{NDF}: 2457765.3/41$

Out: 9355.267 ± 1.319 $\chi^2/\text{NDF}: 3787618.7/46$

All: 9340.056 ± 0.948 $\chi^2/\text{NDF}: 6245659.2/88$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.668 ± 2.693 χ^2/NDF : 17.8/18

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -4.703 ± 2.400 χ^2/NDF : 23.4/21

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

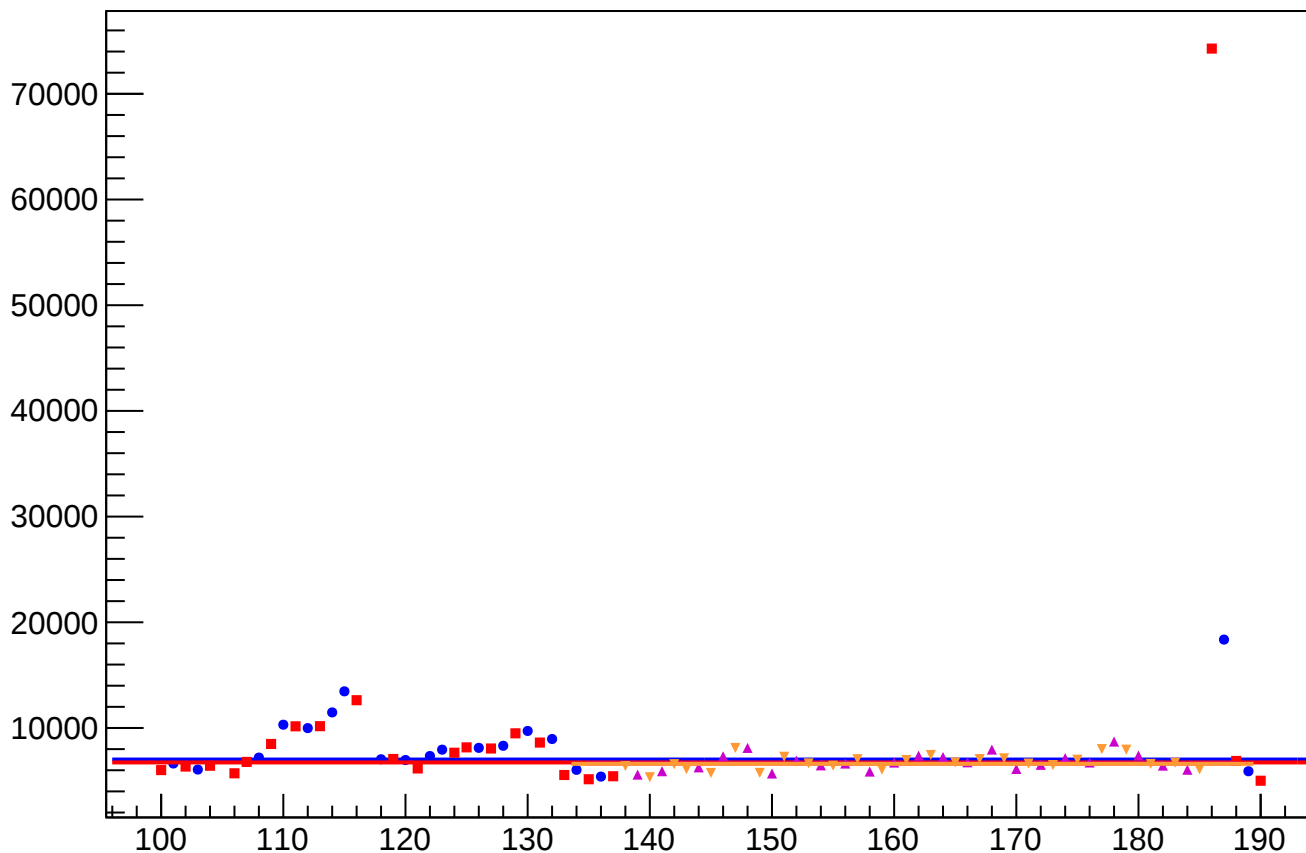
Right: -3.359 ± 1.792 χ^2/NDF : 42.0/40

In: -1.638 ± 1.375 χ^2/NDF : 51.3/41

Out: 1.018 ± 1.302 χ^2/NDF : 48.3/46

All: -0.238 ± 0.946 χ^2/NDF : 101.6/88

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7013.763+/-1.904 χ^2/NDF : 742918.1/18

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 6741.059+/-1.697 χ^2/NDF : 1379510.7/21

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

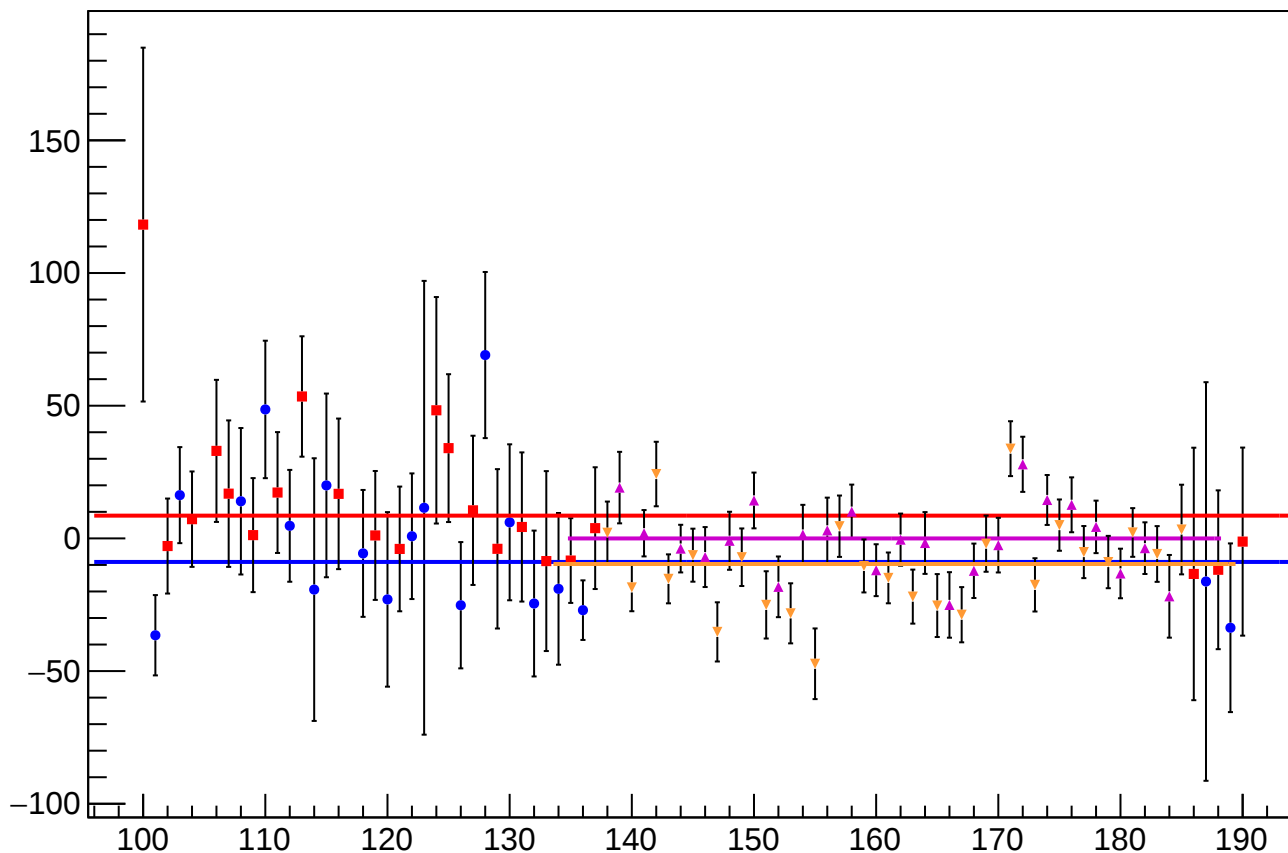
Right: 6861.789+/-1.267 χ^2/NDF : 2133860.9/40

In: 6729.063+/-0.972 χ^2/NDF : 1203444.1/41

Out: 6646.545+/-0.921 χ^2/NDF : 1782323.2/46

All: 6685.568+/-0.669 χ^2/NDF : 2989564.5/86

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.874 ± 5.431 $\chi^2/\text{NDF}: 23.1/18$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 8.573 ± 5.387 $\chi^2/\text{NDF}: 12.8/21$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

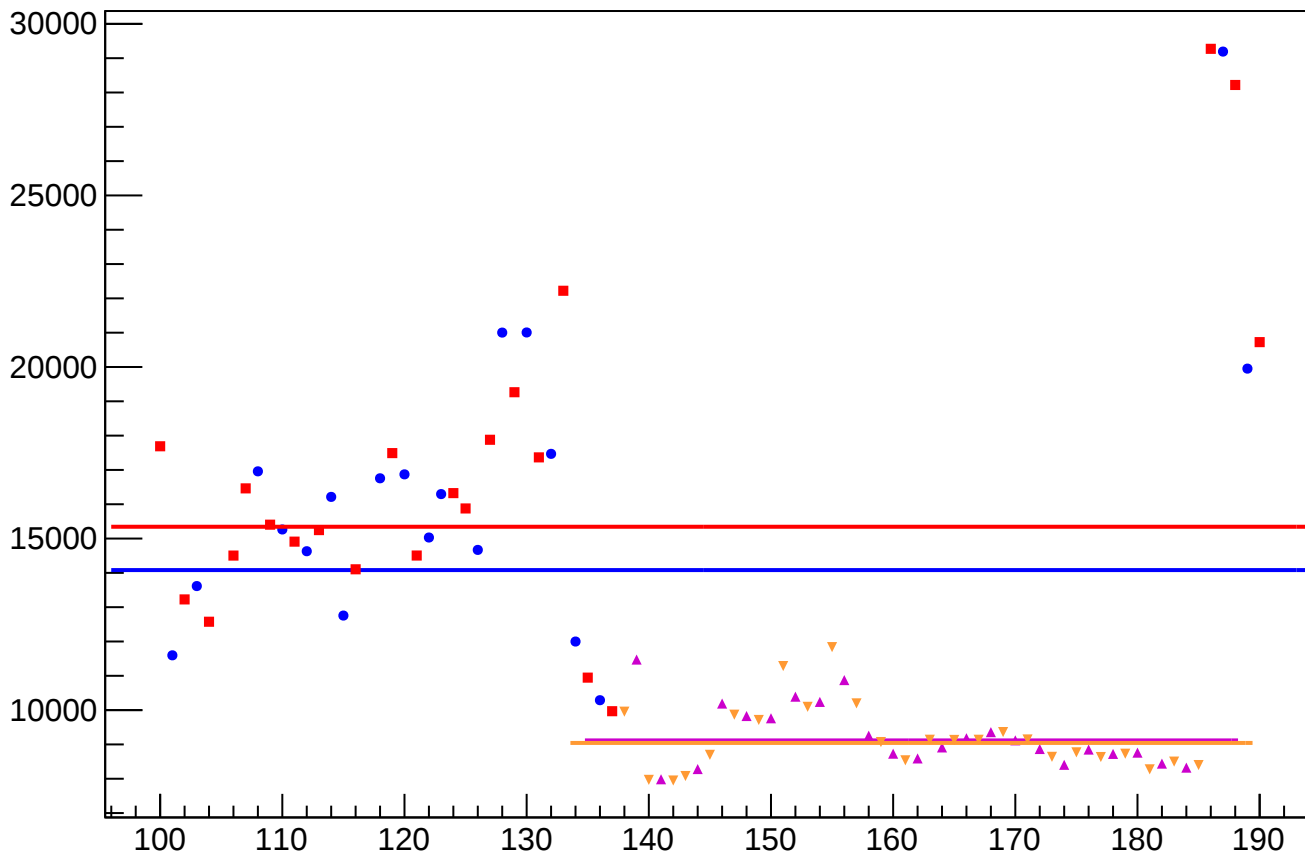
Right: -0.079 ± 3.824 $\chi^2/\text{NDF}: 41.0/40$

In: -1.260 ± 2.033 $\chi^2/\text{NDF}: 56.0/41$

Out: -7.208 ± 1.971 $\chi^2/\text{NDF}: 82.5/46$

All: -4.325 ± 1.415 $\chi^2/\text{NDF}: 142.9/88$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 14081.194+/-3.840 χ^2/NDF : 761592.0/18

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 15344.137+/-3.809 χ^2/NDF : 1100126.8/21

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

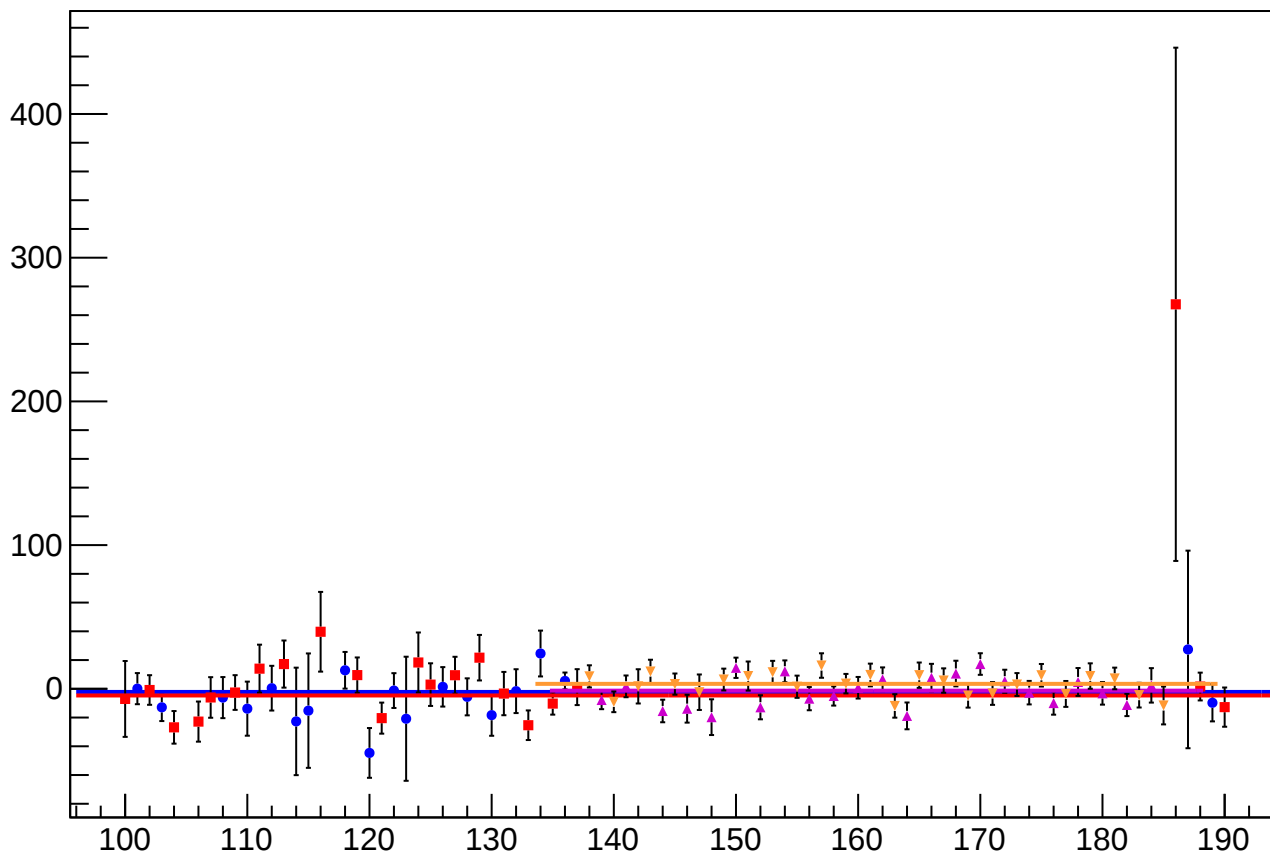
Right: 14717.794+/-2.704 χ^2/NDF : 1916242.0/40

In: 9812.401+/-1.437 χ^2/NDF : 2476301.2/41

Out: 9887.293+/-1.394 χ^2/NDF : 3798126.0/46

All: 9850.995+/-1.001 χ^2/NDF : 6275826.3/88

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -2.181 ± 3.023 χ^2/NDF : 16.2/18

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -4.643 ± 2.778 χ^2/NDF : 28.1/21

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

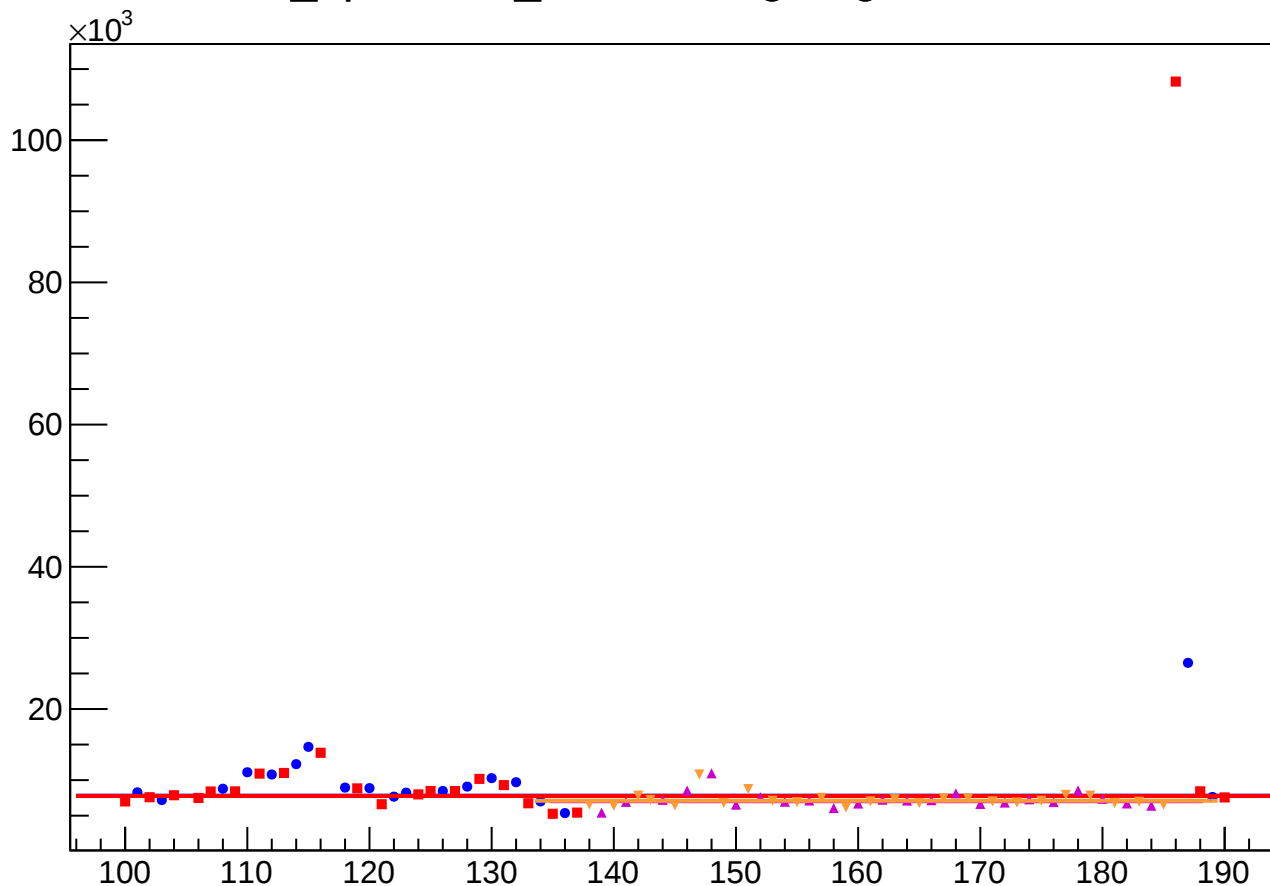
Right: -3.516 ± 2.046 χ^2/NDF : 44.7/40

In: -1.505 ± 1.482 χ^2/NDF : 52.8/41

Out: 1.301 ± 1.429 χ^2/NDF : 53.2/46

All: -0.050 ± 1.029 χ^2/NDF : 107.9/88

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7813.086 $\pm$ 2.138 χ^2/NDF : 886370.3/18

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 7762.162 $\pm$ 1.964 χ^2/NDF : 1317150.3/21

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

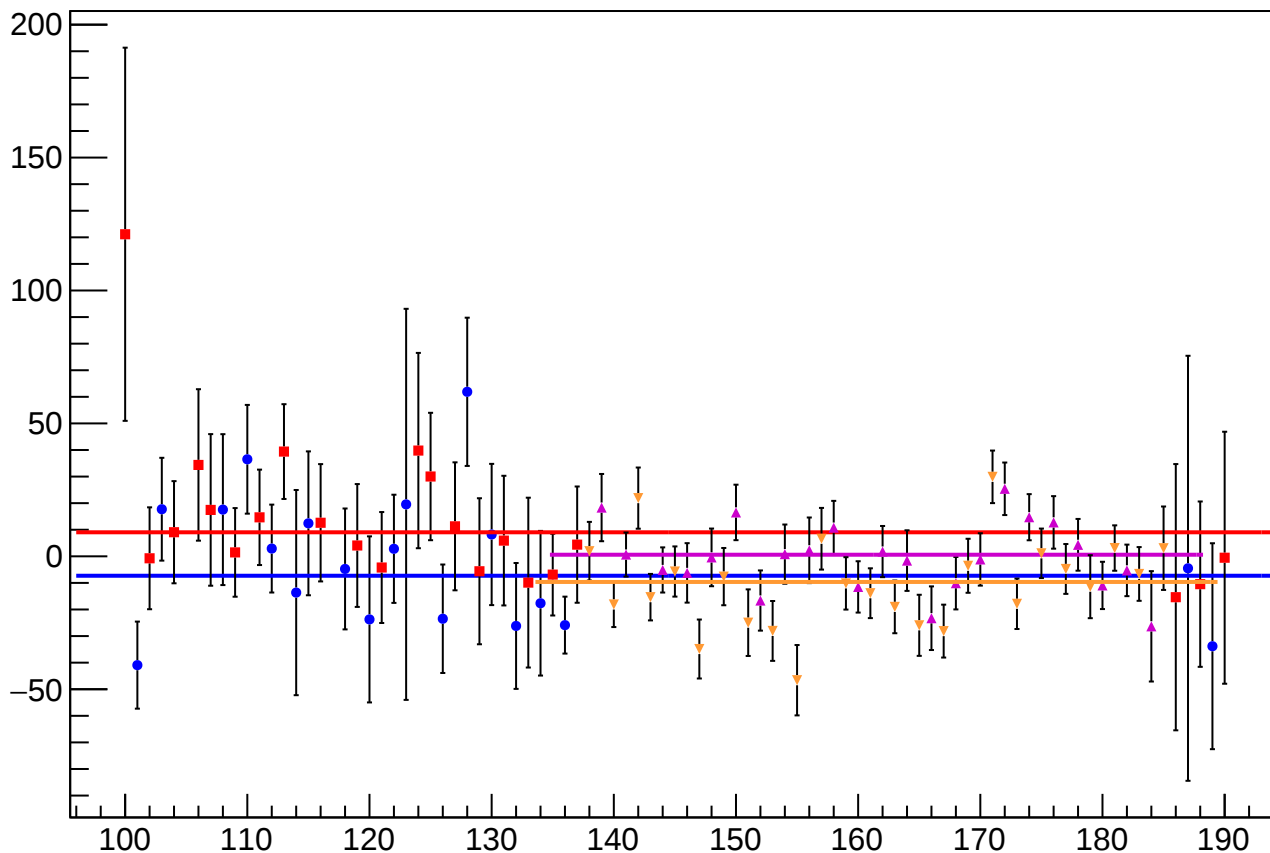
Right: 7785.477 $\pm$ 1.446 χ^2/NDF : 2203828.3/40

In: 7221.105 $\pm$ 1.048 χ^2/NDF : 1528379.8/41

Out: 7274.226 $\pm$ 1.010 χ^2/NDF : 1783590.3/46

All: 7248.642 $\pm$ 0.727 χ^2/NDF : 3313301.5/86

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.306 ± 5.059 $\chi^2/\text{NDF}: 24.2/18$

Left Out: -9.640 ± 2.057 $\chi^2/\text{NDF}: 57.6/24$

Right Out: 9.039 ± 4.965 $\chi^2/\text{NDF}: 11.3/21$

Left In: 0.599 ± 2.135 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.710 ± 1.481 $\chi^2/\text{NDF}: 99.2/47$

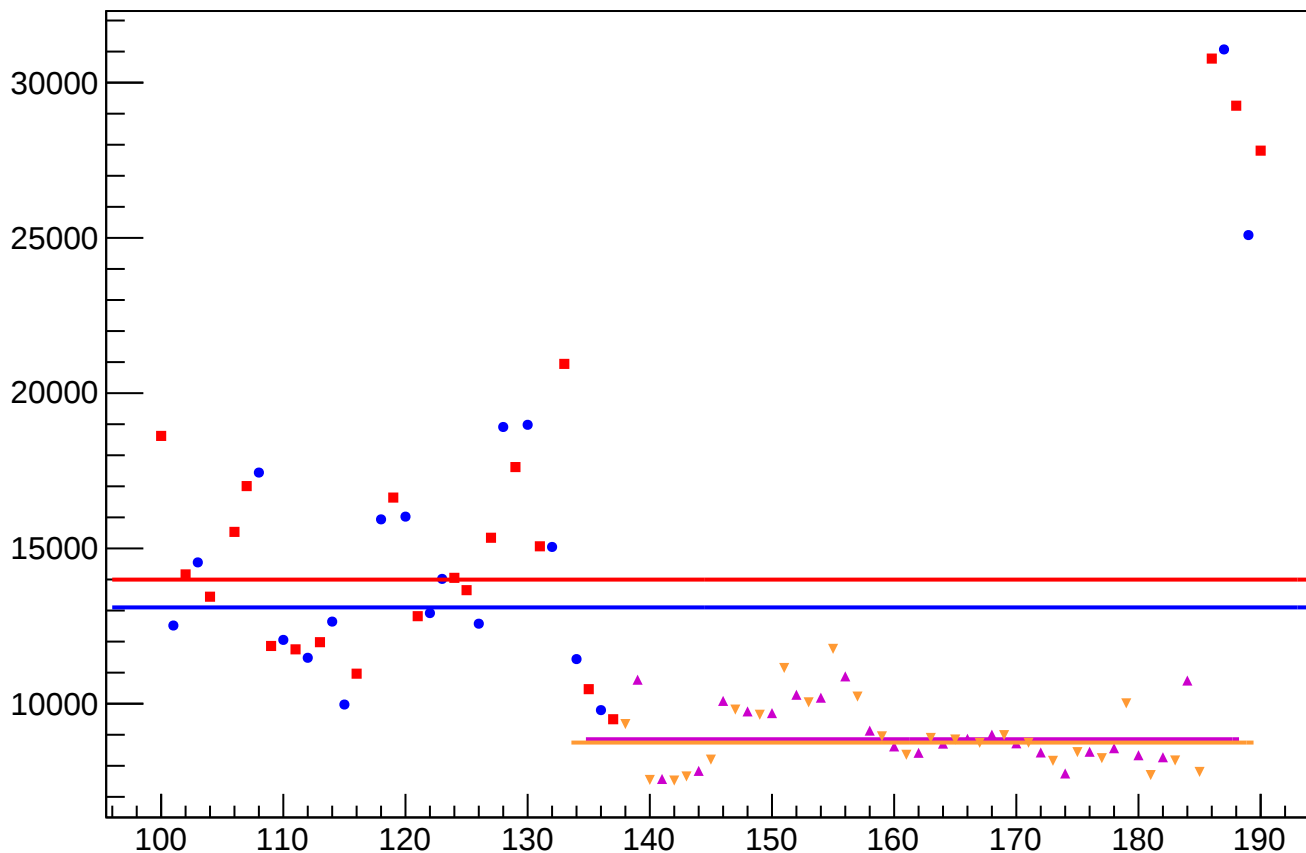
Right: 1.019 ± 3.544 $\chi^2/\text{NDF}: 40.8/40$

In: -0.596 ± 1.967 $\chi^2/\text{NDF}: 56.0/41$

Out: -6.904 ± 1.901 $\chi^2/\text{NDF}: 81.0/46$

All: -3.858 ± 1.367 $\chi^2/\text{NDF}: 142.3/88$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 13101.050 $\pm$ 3.577 χ^2/NDF : 851859.2/18

Left Out: 8748.407 $\pm$ 1.455 χ^2/NDF :463394.1/24

Right Out: 13996.173 $\pm$ 3.511 χ^2/NDF : 1404256.8/21

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

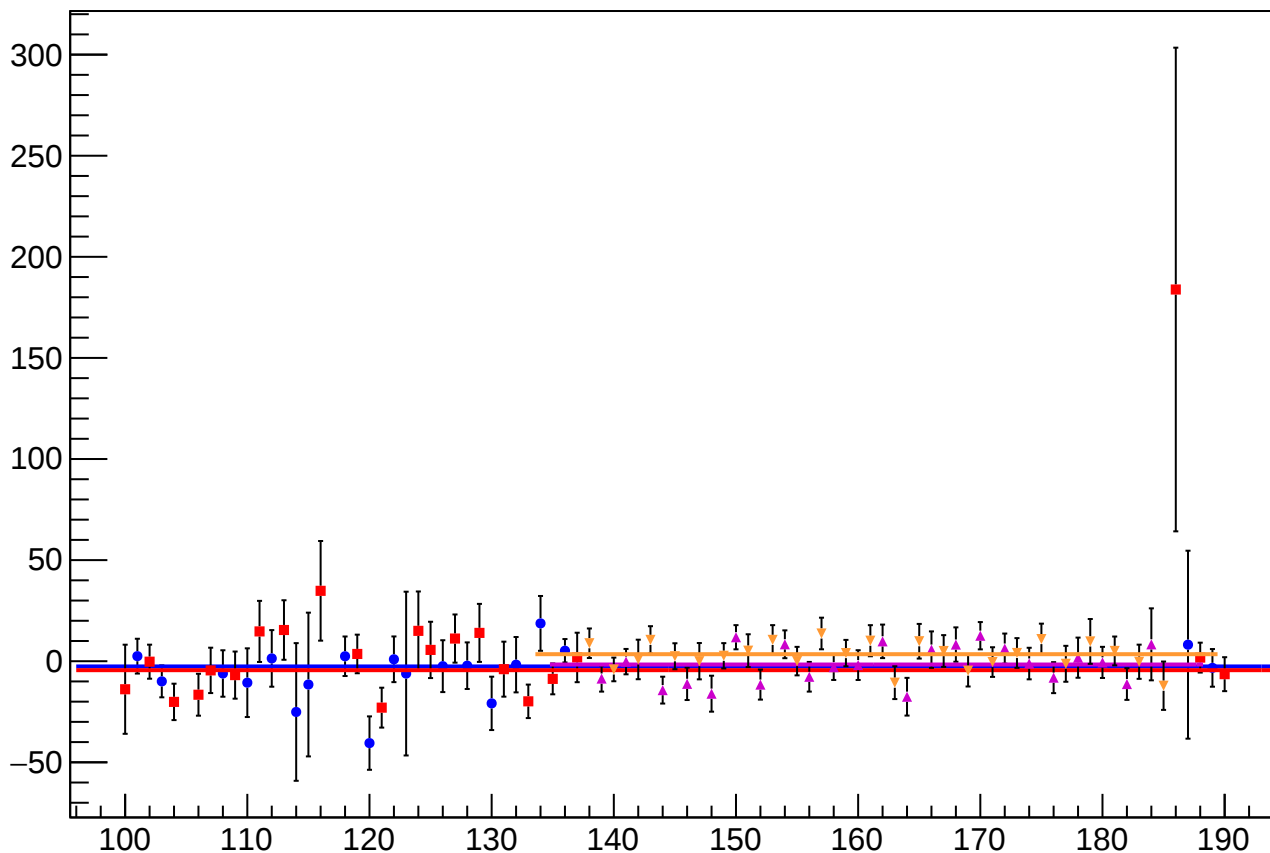
Right: 13556.964 $\pm$ 2.506 χ^2/NDF : 2288009.0/40

In: 9497.457 $\pm$ 1.391 χ^2/NDF :2415013.5/41

Out: 9517.291 $\pm$ 1.344 χ^2/NDF :3774366.8/46

All: 9507.715 $\pm$ 0.966 χ^2/NDF : 6189485.5/88

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.590 ± 2.635 χ^2/NDF : 17.0/18

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -4.433 ± 2.350 χ^2/NDF : 27.3/21

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

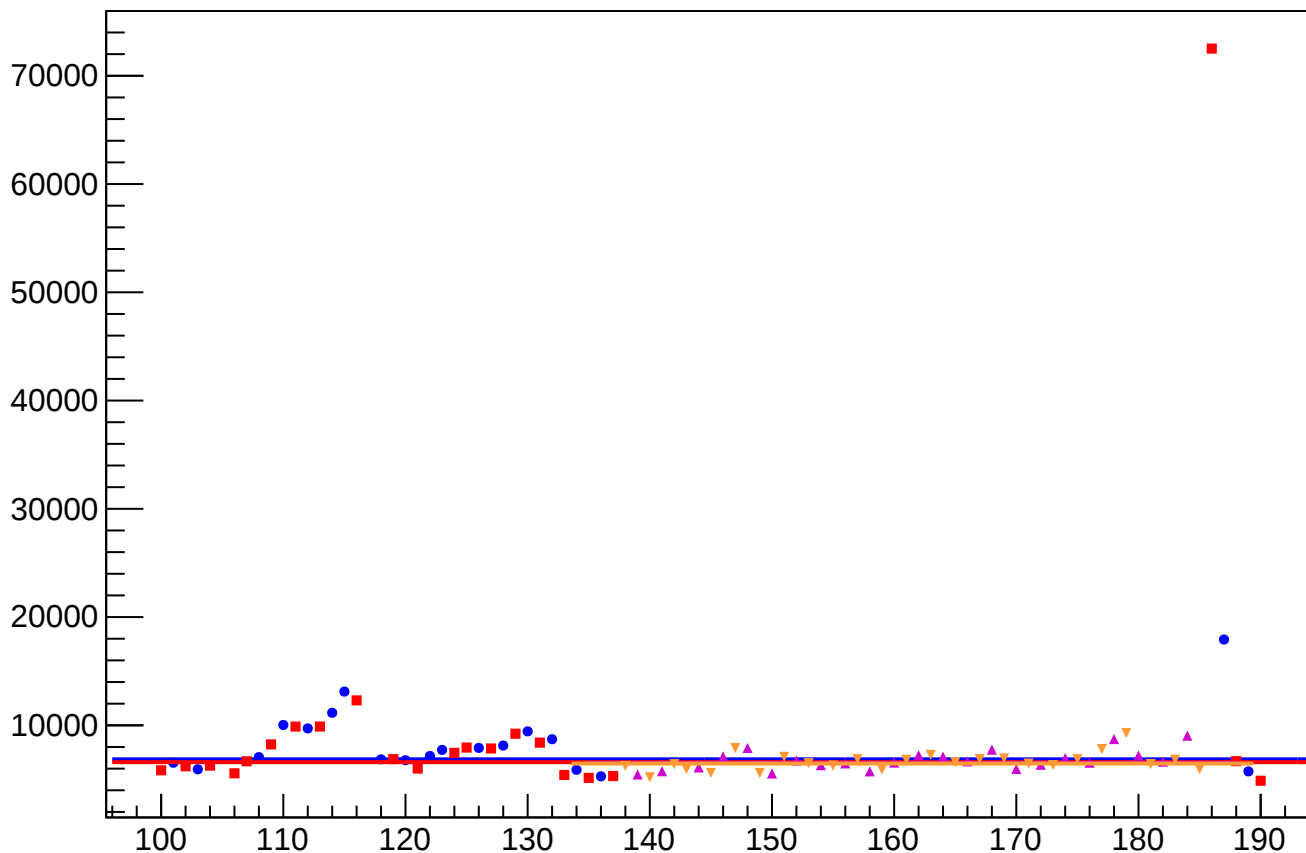
Right: -3.616 ± 1.754 χ^2/NDF : 44.5/40

In: -1.889 ± 1.354 χ^2/NDF : 50.8/41

Out: 1.132 ± 1.279 χ^2/NDF : 51.0/46

All: -0.293 ± 0.930 χ^2/NDF : 104.4/88

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6859.033+/-1.863 χ^2/NDF : 730966.9/18

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 6597.863+/-1.662 χ^2/NDF : 1353464.8/21

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

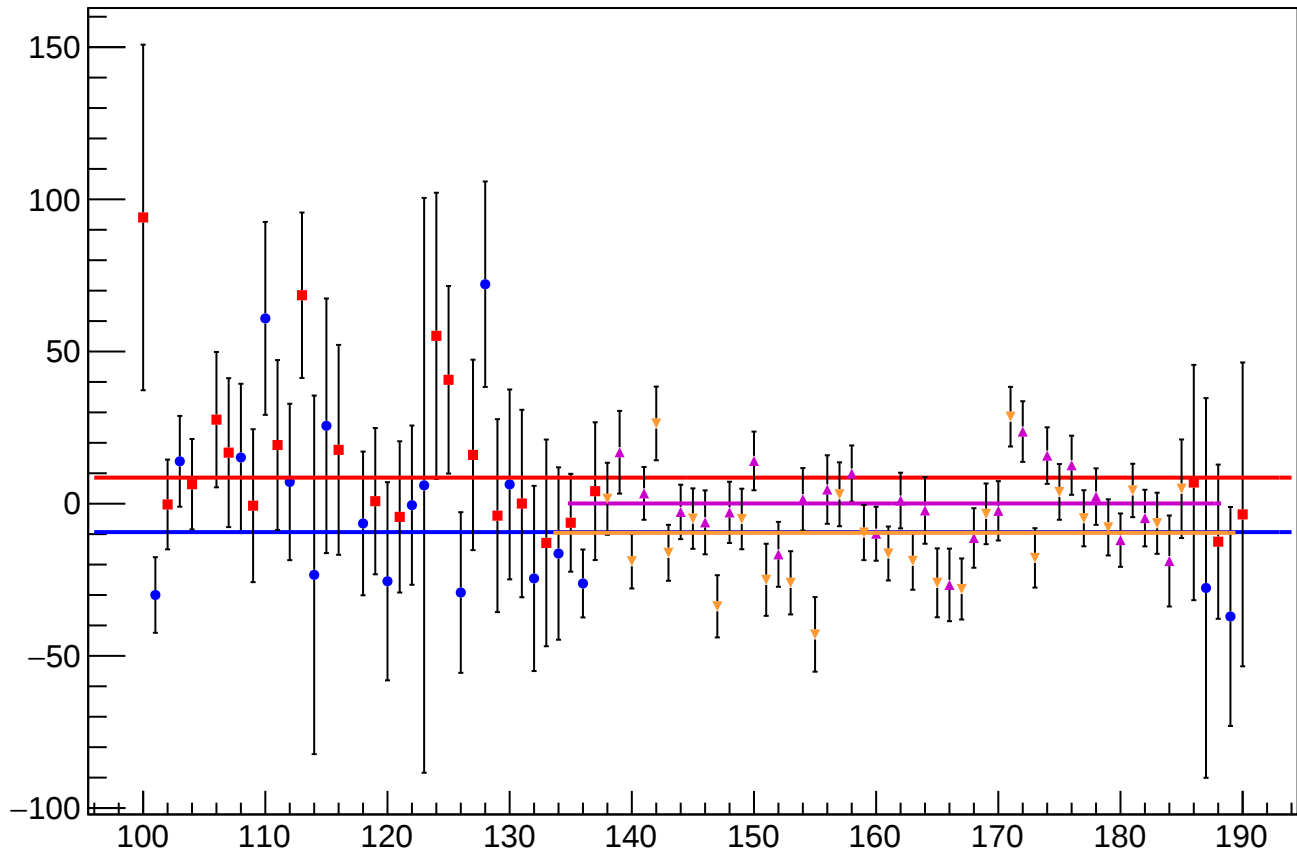
Right: 6713.557+/-1.240 χ^2/NDF : 2095376.9/40

In: 6610.943+/-0.957 χ^2/NDF : 1235090.8/41

Out: 6509.262+/-0.904 χ^2/NDF : 1847788.0/46

All: 6557.211+/-0.657 χ^2/NDF : 3088841.7/88

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.339 ± 5.339 $\chi^2/\text{NDF}: 22.6/18$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 8.562 ± 5.312 $\chi^2/\text{NDF}: 13.5/21$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

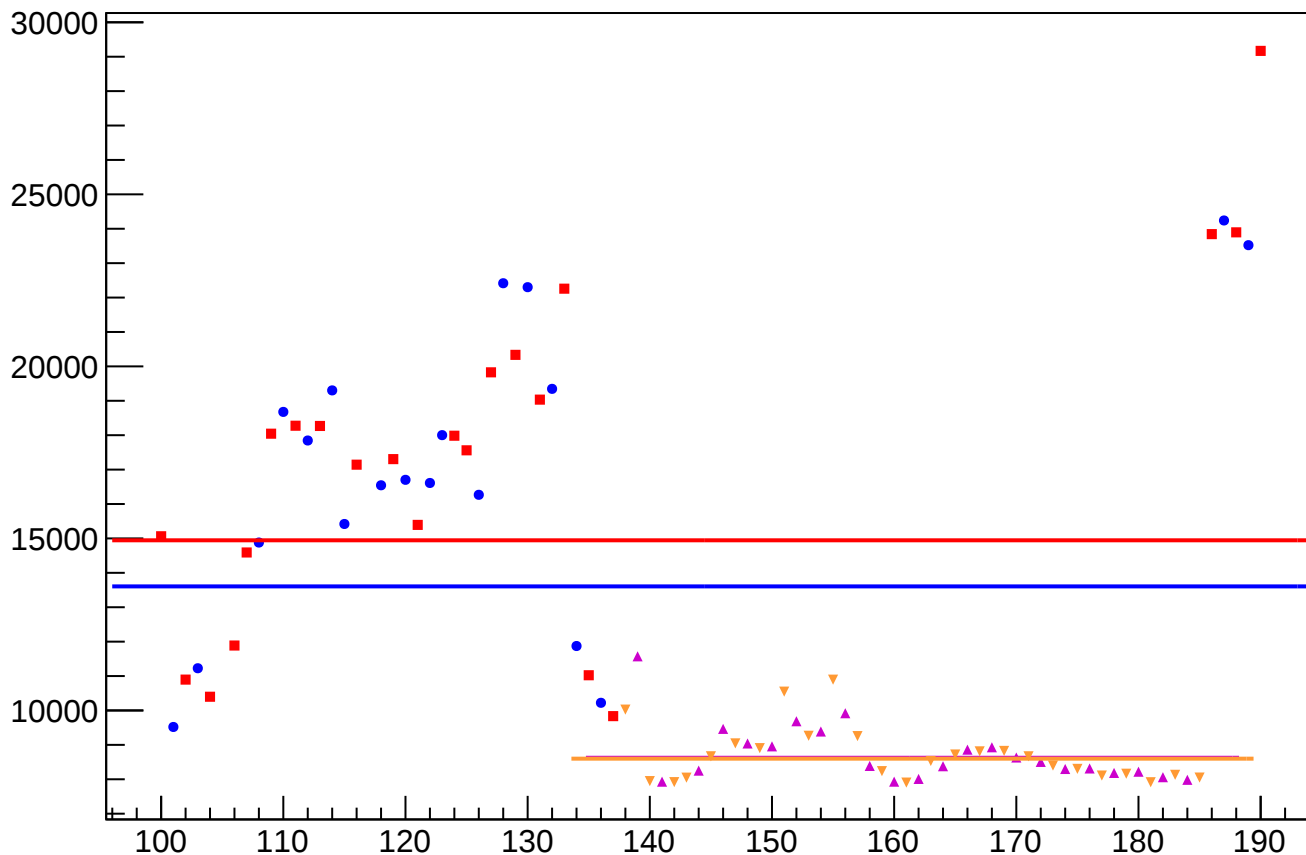
Right: -0.344 ± 3.766 $\chi^2/\text{NDF}: 41.7/40$

In: -1.161 ± 1.932 $\chi^2/\text{NDF}: 55.1/41$

Out: -7.282 ± 1.881 $\chi^2/\text{NDF}: 83.2/46$

All: -4.303 ± 1.348 $\chi^2/\text{NDF}: 143.5/88$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13605.706 $\pm$ 3.775 χ^2/NDF : 1265371.9/18

Left Out: 8598.983 $\pm$ 1.423 χ^2/NDF : 249070.5/24

Right Out: 14945.299 $\pm$ 3.756 χ^2/NDF : 1489173.7/21

Left In: 8625.233 $\pm$ 1.466 χ^2/NDF : 237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2/NDF : 486546.6/47

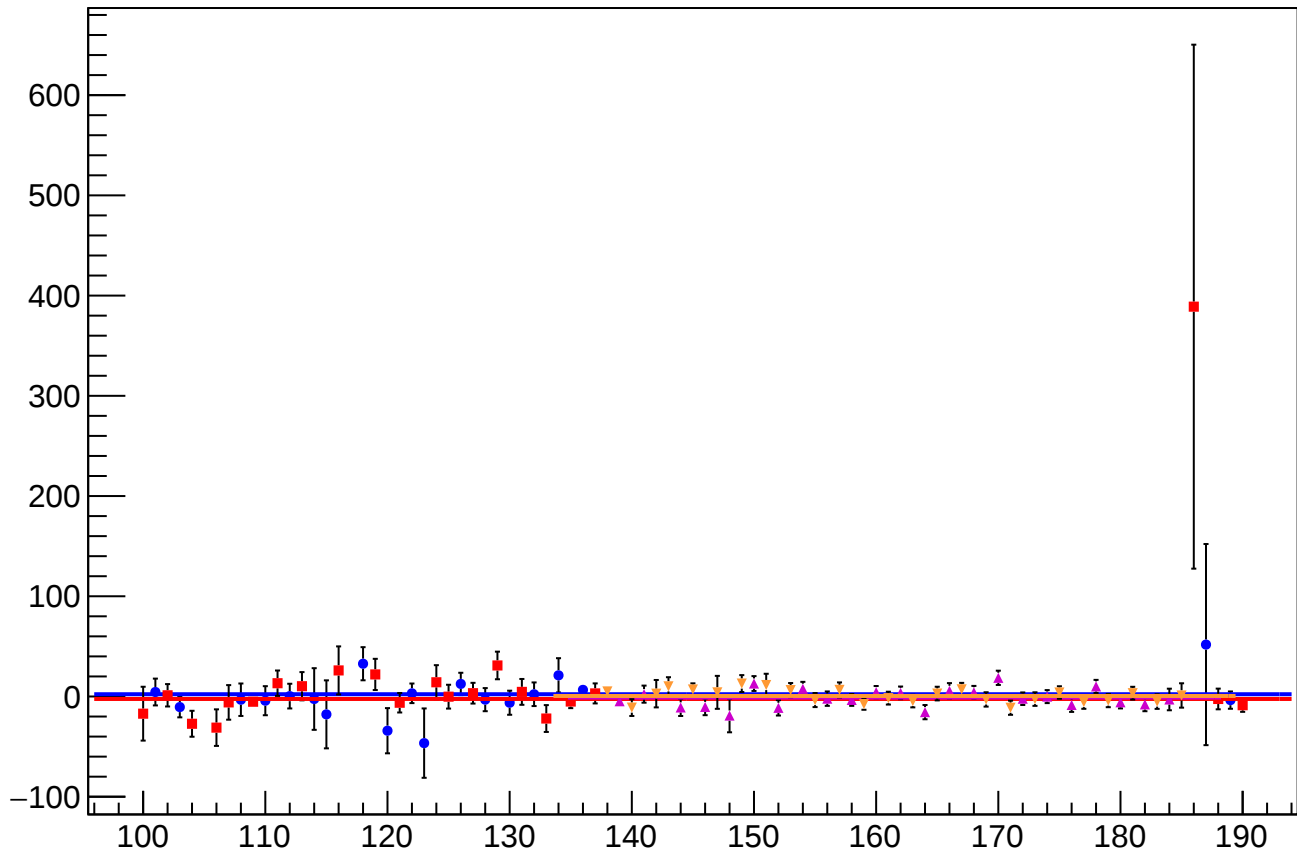
Right: 14278.812 $\pm$ 2.663 χ^2/NDF : 2817821.0/40

In: 9277.655 $\pm$ 1.366 χ^2/NDF : 3015346.7/41

Out: 9394.979 $\pm$ 1.330 χ^2/NDF : 4234620.9/46

All: 9337.881 $\pm$ 0.953 χ^2/NDF : 7253752.8/88

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.256 ± 2.630 $\chi^2/\text{NDF}: 14.7/18$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -2.465 ± 2.240 $\chi^2/\text{NDF}: 26.5/21$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

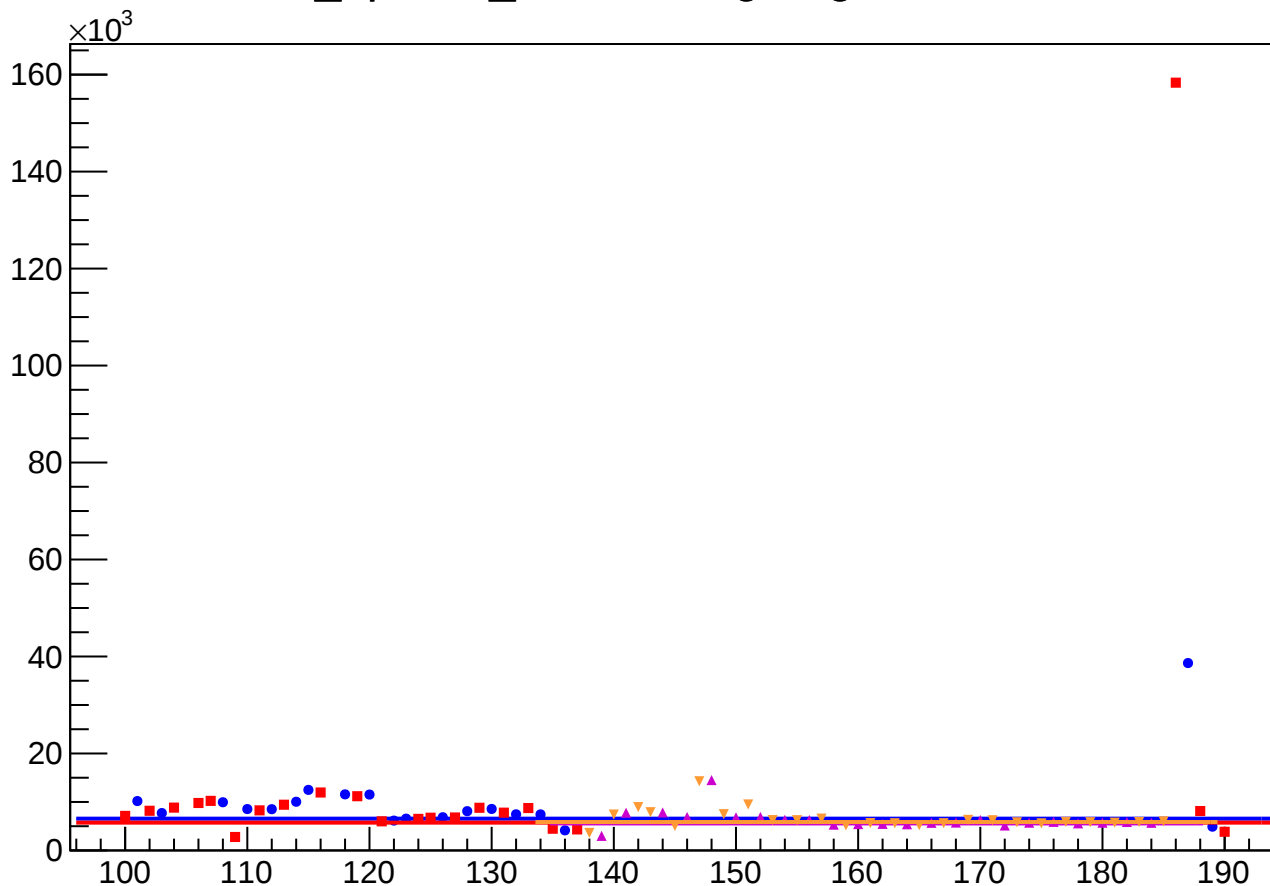
Right: -0.480 ± 1.705 $\chi^2/\text{NDF}: 43.1/40$

In: -0.323 ± 1.233 $\chi^2/\text{NDF}: 48.5/41$

Out: -0.328 ± 1.198 $\chi^2/\text{NDF}: 47.3/46$

All: -0.326 ± 0.859 $\chi^2/\text{NDF}: 95.7/88$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6557.599 $\pm$ 1.860 χ^2/NDF : 1673038.0/18

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5738.000 $\pm$ 1.584 χ^2/NDF : 3237764.9/21

Left In: 5571.330 $\pm$ 0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698 $\pm$ 0.703 χ^2/NDF : 3895130.2/47

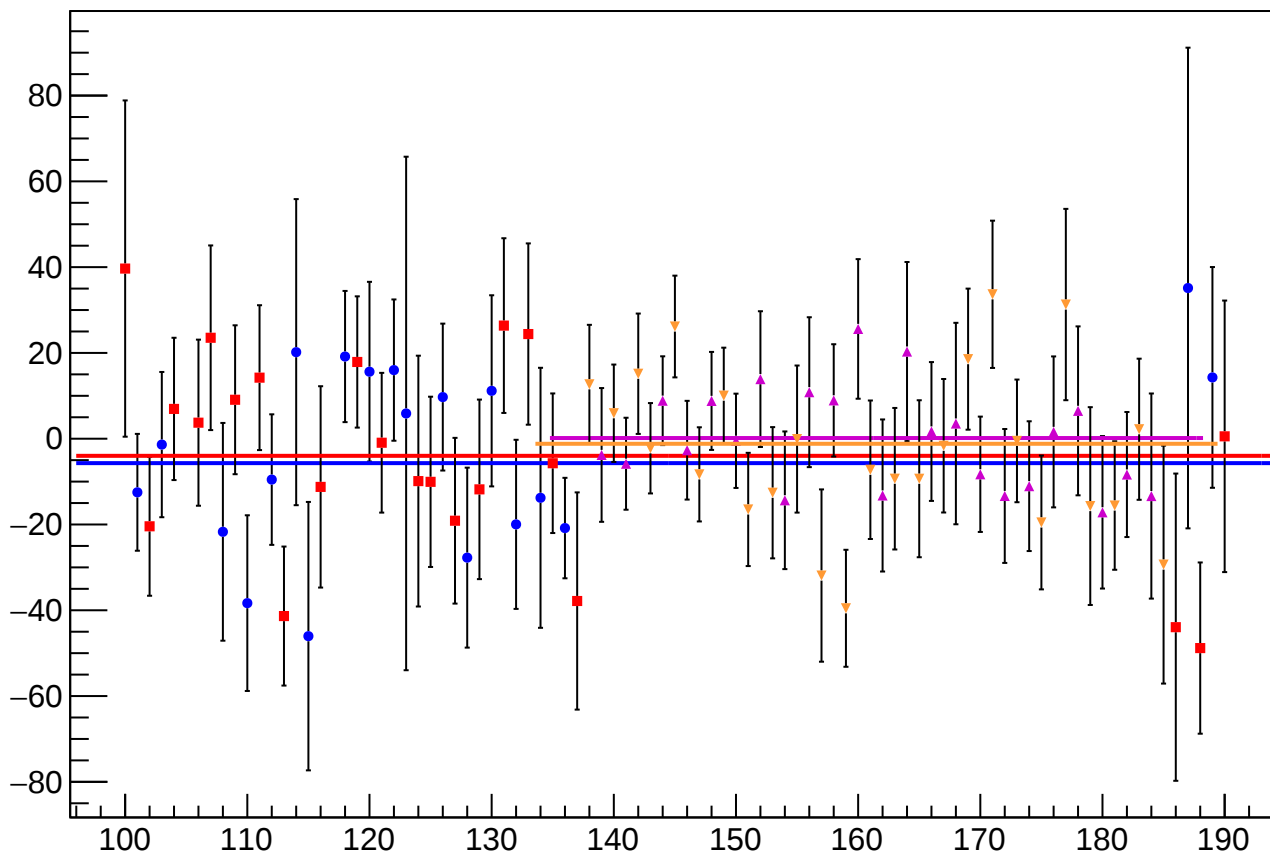
Right: 6082.647 $\pm$ 1.206 χ^2/NDF : 5023364.4/40

In: 5788.024 $\pm$ 0.872 χ^2/NDF : 4055301.1/41

Out: 5825.550 $\pm$ 0.847 χ^2/NDF : 4932091.5/46

All: 5807.324 $\pm$ 0.607 χ^2/NDF : 8988345.7/88

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.694 ± 4.475 χ^2/NDF : 16.8/18

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -3.991 ± 4.212 χ^2/NDF : 26.7/21

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

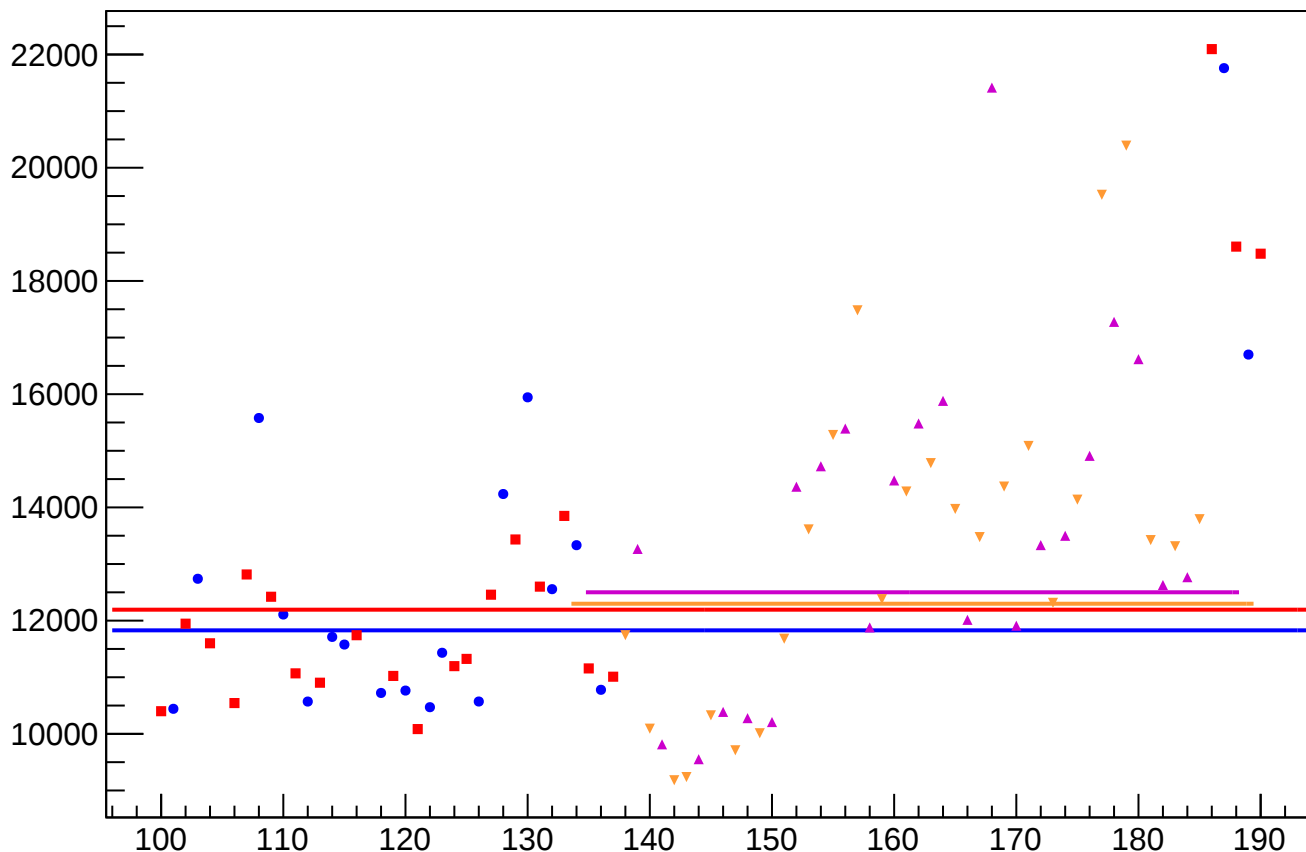
Right: -4.791 ± 3.067 χ^2/NDF : 43.7/40

In: -1.706 ± 2.525 χ^2/NDF : 29.5/41

Out: -2.102 ± 2.410 χ^2/NDF : 60.7/46

All: -1.913 ± 1.743 χ^2/NDF : 90.3/88

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11828.505 $\pm$ 3.164 χ^2 /NDF: 377224.5/18

Left Out: 12298.676 $\pm$ 2.078 χ^2 /NDF:1506026.8/24

Right Out: 12193.444 $\pm$ 2.979 χ^2 /NDF: 568599.4/21

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

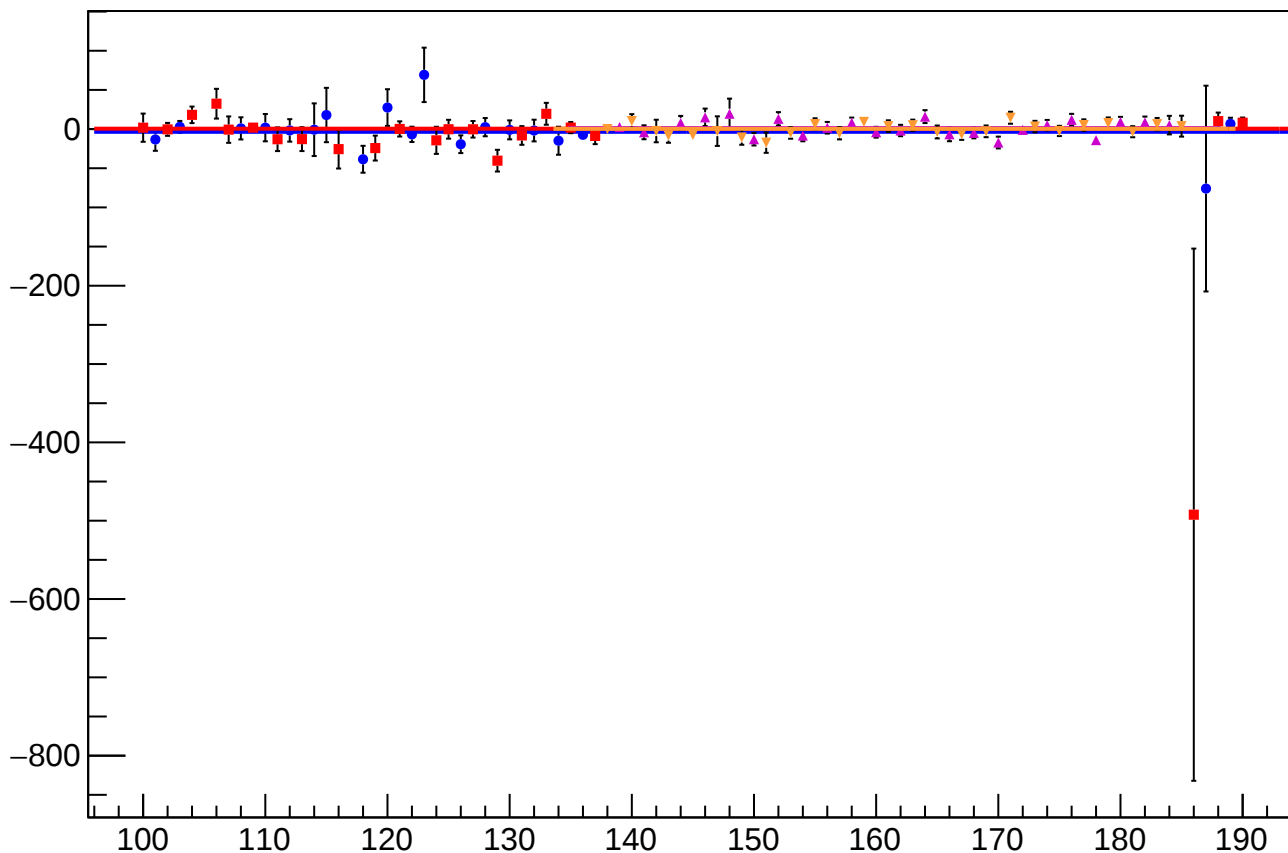
Right: 12021.998 $\pm$ 2.169 χ^2 /NDF: 952875.9/40

In: 12286.791 $\pm$ 1.785 χ^2 /NDF:1765883.3/41

Out: 12264.225 $\pm$ 1.704 χ^2 /NDF:2075465.8/46

All: 12274.984 $\pm$ 1.233 χ^2 /NDF: 3841432.7/86

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.488 ± 2.622 $\chi^2/\text{NDF}: 17.5/18$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 0.479 ± 2.234 $\chi^2/\text{NDF}: 27.7/21$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

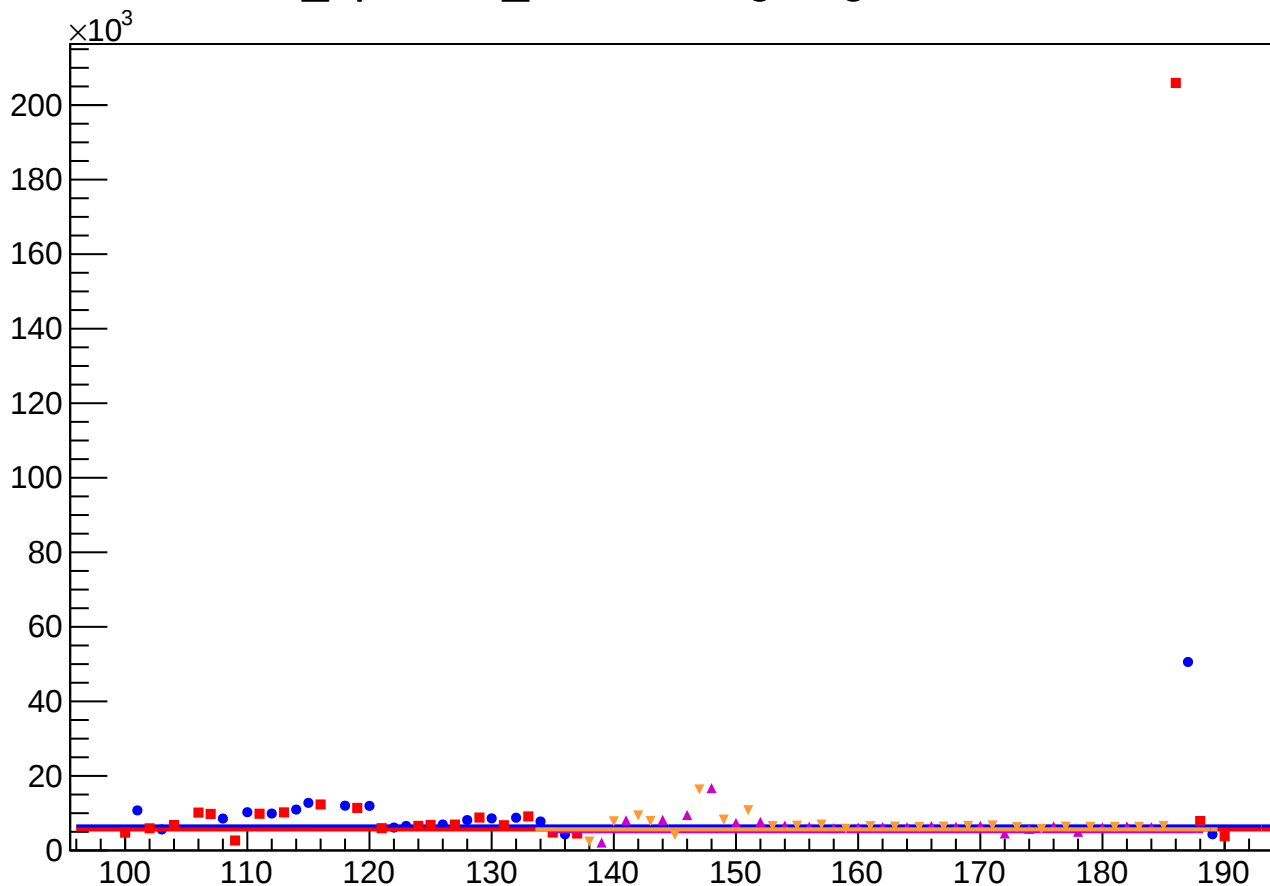
Right: -1.189 ± 1.700 $\chi^2/\text{NDF}: 46.5/40$

In: 0.166 ± 1.215 $\chi^2/\text{NDF}: 53.6/41$

Out: 0.390 ± 1.206 $\chi^2/\text{NDF}: 46.8/46$

All: 0.279 ± 0.856 $\chi^2/\text{NDF}: 100.4/88$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6457.543 ± 1.854 $\chi^2/\text{NDF}: 1837976.6/18$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 5626.699 ± 1.579 $\chi^2/\text{NDF}: 3104187.8/21$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

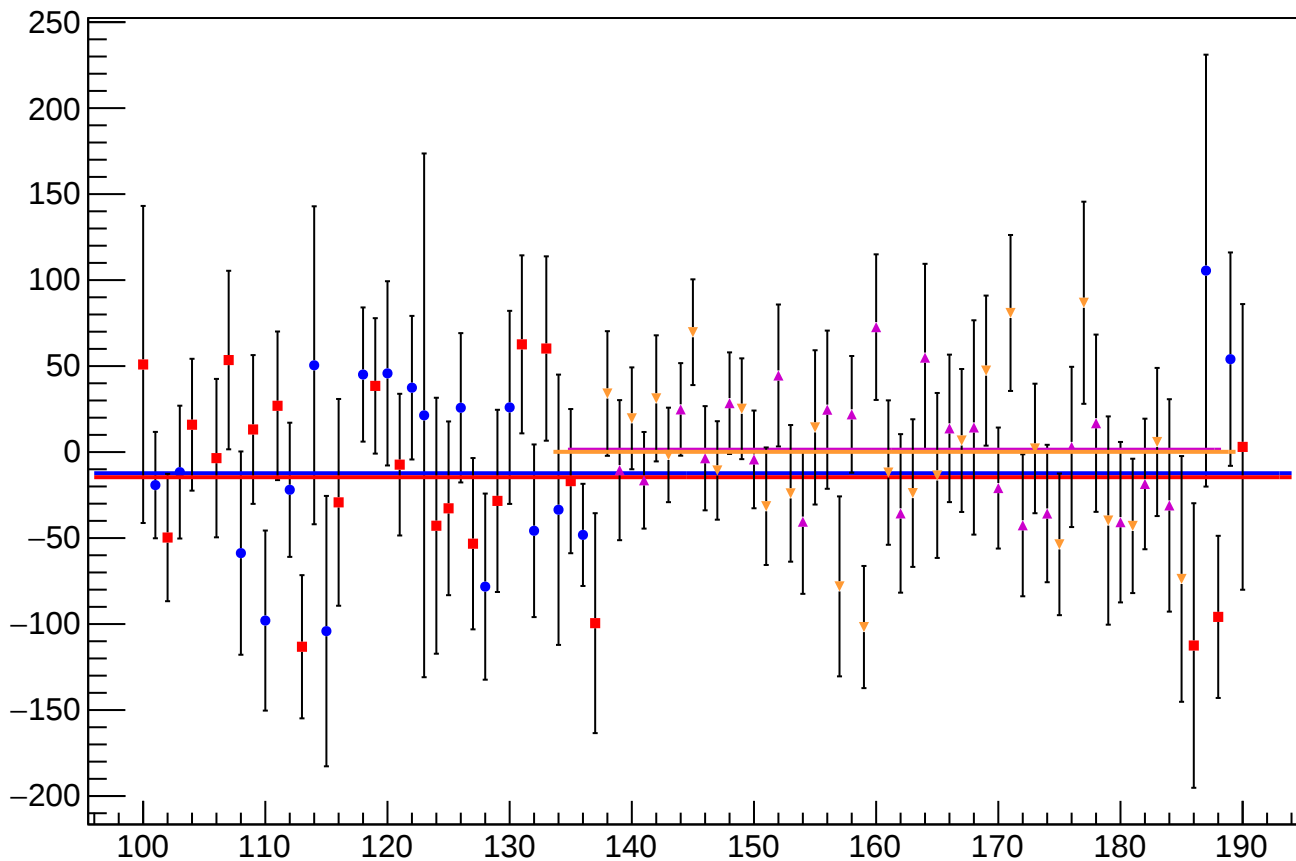
Right: 5976.047 ± 1.202 $\chi^2/\text{NDF}: 5058521.4/40$

In: 5421.215 ± 0.859 $\chi^2/\text{NDF}: 7731396.6/41$

Out: 5649.891 ± 0.853 $\chi^2/\text{NDF}: 7233075.8/46$

All: 5536.391 ± 0.605 $\chi^2/\text{NDF}: 15000141.4/8$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -12.309 ± 11.090 χ^2/NDF : 16.8/18

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -14.616 ± 10.462 χ^2/NDF : 24.0/21

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

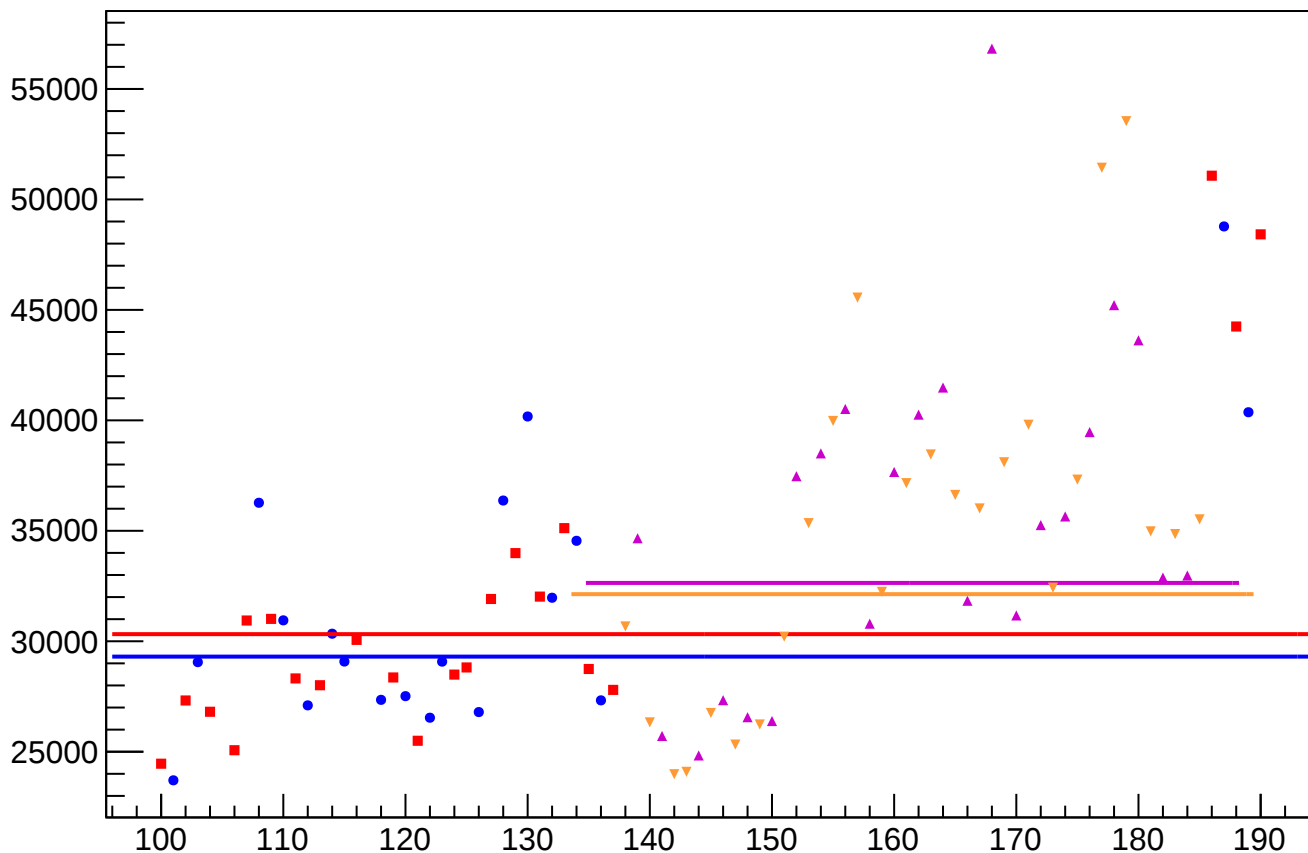
Right: -13.530 ± 7.610 χ^2/NDF : 40.7/40

In: -3.302 ± 6.483 χ^2/NDF : 31.0/41

Out: -5.029 ± 6.193 χ^2/NDF : 56.5/46

All: -4.205 ± 4.478 χ^2/NDF : 87.6/88

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 29305.464 $\pm$ 7.842

χ^2/NDF : 368966.0/18

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Right: 29843.466 $\pm$ 5.381 χ^2/NDF : 919675.1/40

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

In: 31501.297 $\pm$ 4.584 χ^2/NDF : 1890237.8/41

Out: 31498.112 $\pm$ 4.379 χ^2/NDF : 2120784.9/46

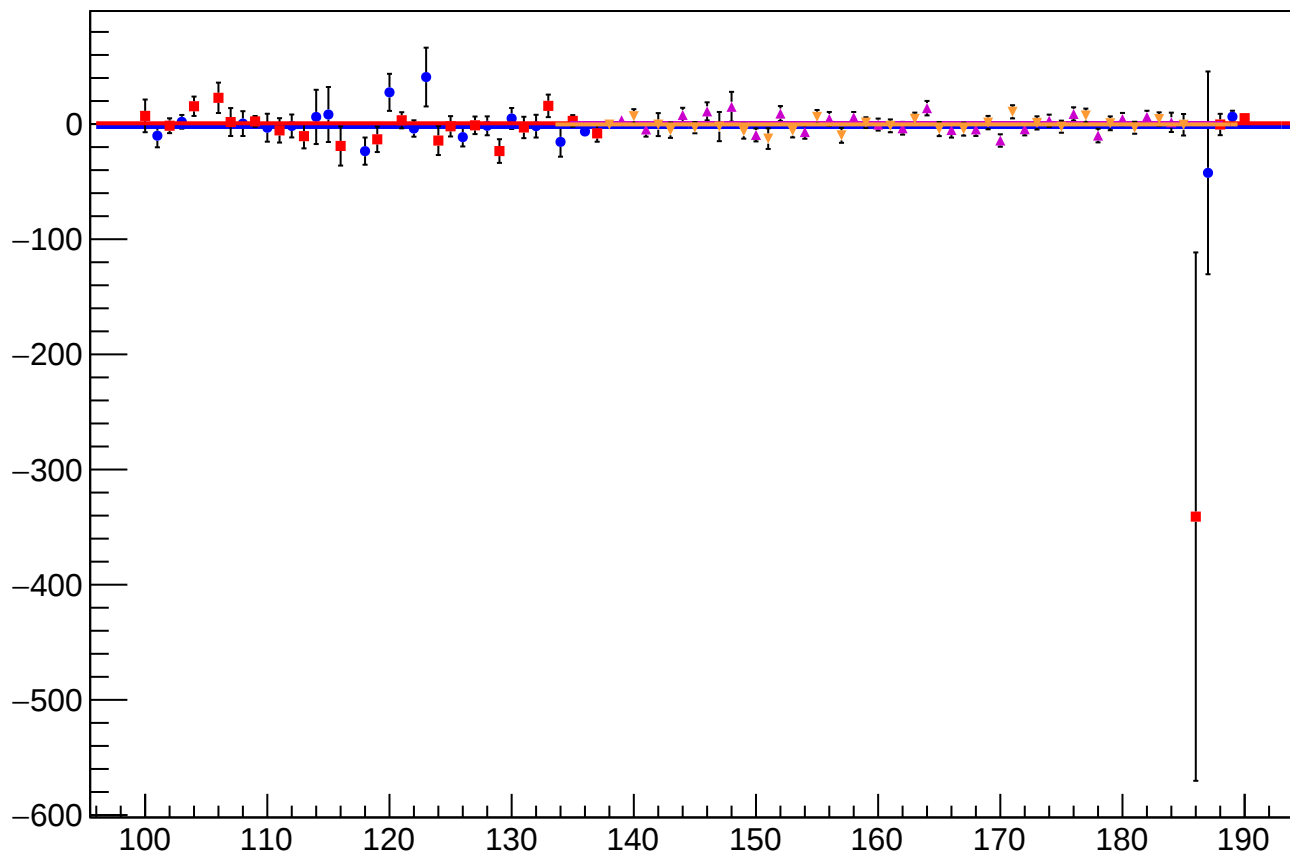
Right Out: 30322.247 $\pm$ 7.398

χ^2/NDF : 541813.5/21

Left In: 32641.162 $\pm$ 5.650 χ^2/NDF : 1402162.4/22

All: 31499.632 $\pm$ 3.166 χ^2/NDF : 4011022.9/8

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -2.529 $\pm$ 1.876 χ^2/NDF : 18.5/18

Left Out: -0.312 $\pm$ 1.172 χ^2/NDF : 17.6/24

Right Out: 0.679 $\pm$ 1.695 χ^2/NDF : 25.5/21

Left In: 0.908 $\pm$ 1.142 χ^2/NDF : 36.2/22

Left: 0.313 $\pm$ 0.818 χ^2/NDF : 54.4/47

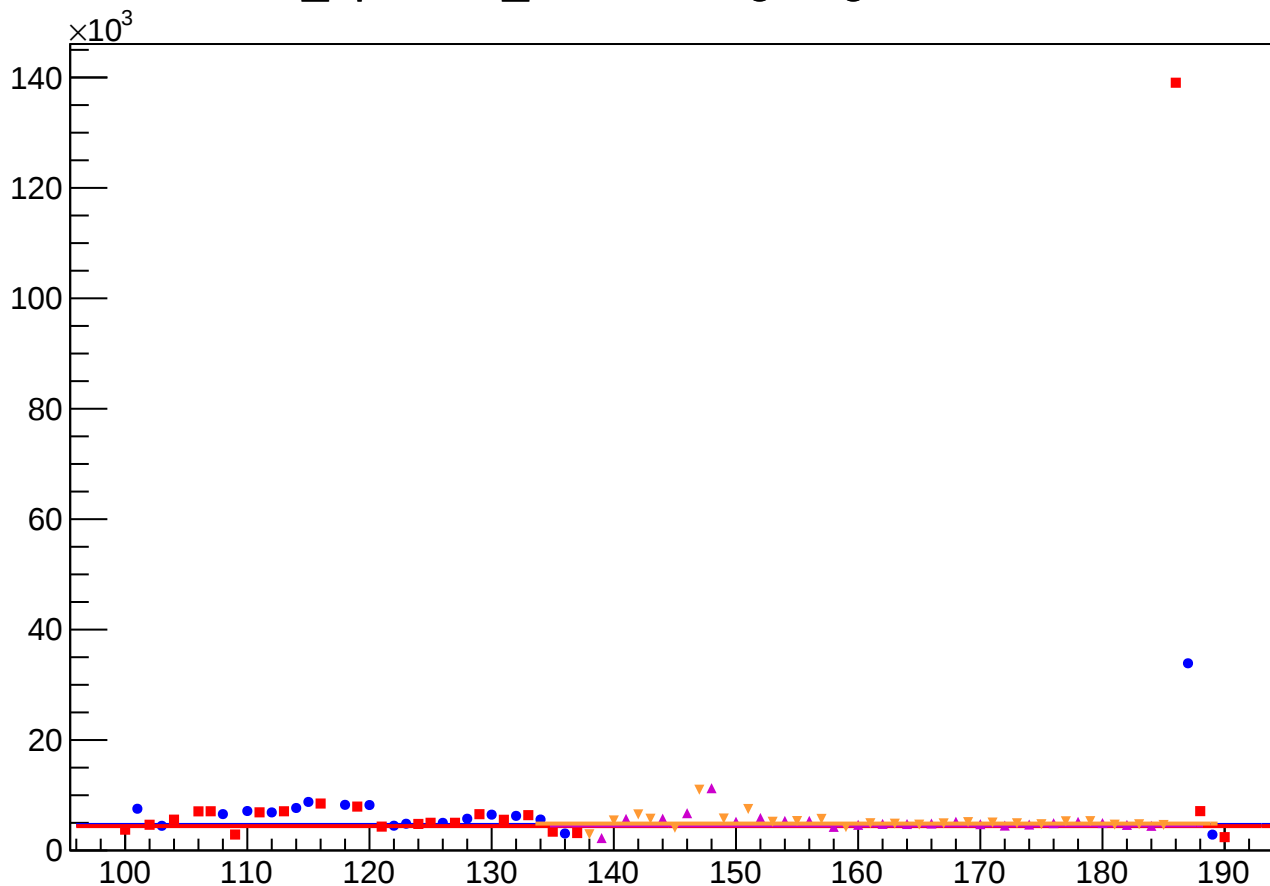
Right: -0.763 $\pm$ 1.258 χ^2/NDF : 45.6/40

In: -0.022 $\pm$ 0.976 χ^2/NDF : 57.2/41

Out: 0.008 $\pm$ 0.964 χ^2/NDF : 43.4/46

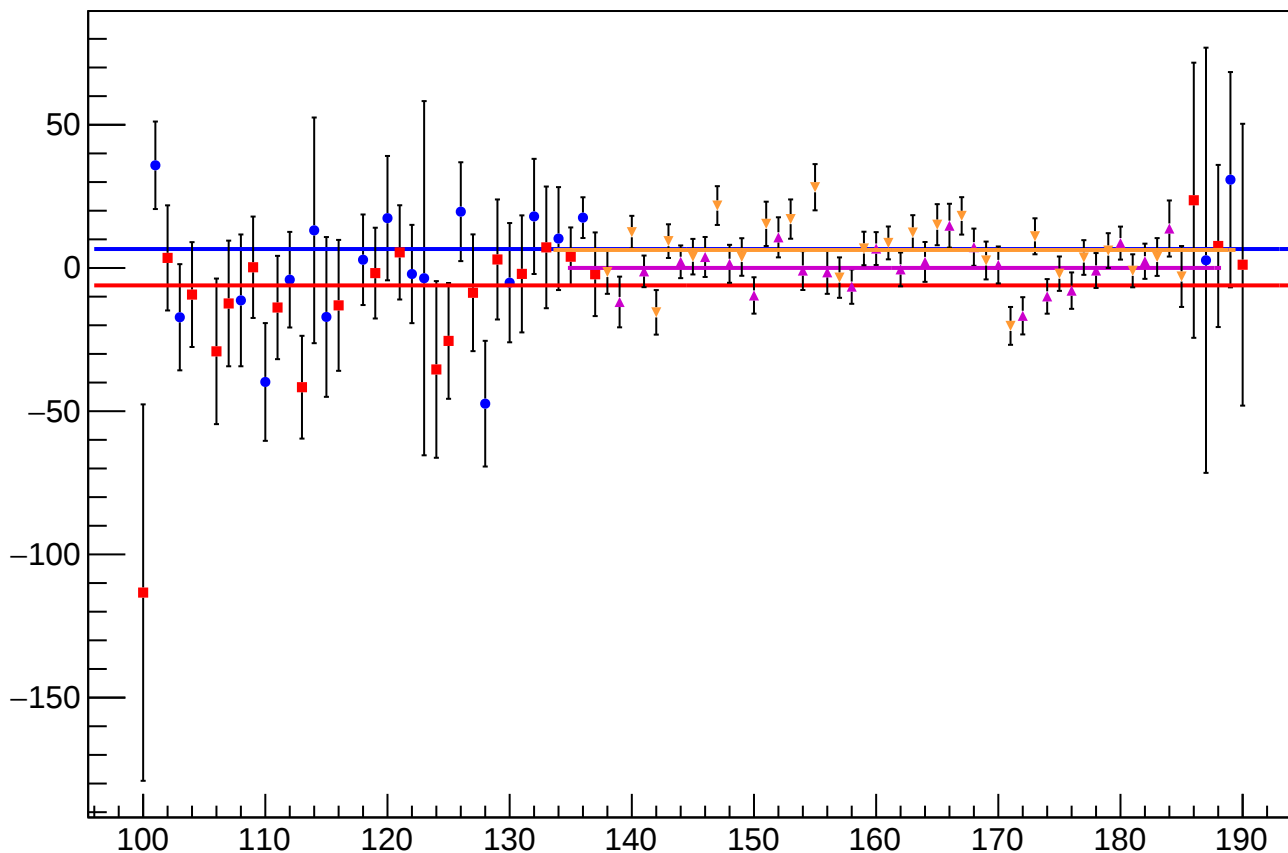
All: -0.007 $\pm$ 0.686 χ^2/NDF : 100.5/88

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4621.750 $\pm$ 1.327	χ^2/NDF : 1886799.6/18	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: 4503.889 $\pm$ 0.889	χ^2/NDF : 4591037.1/40
Right Out: 4407.671 $\pm$ 1.199	χ^2/NDF : 2689902.4/21	In: 4565.268 $\pm$ 0.690	χ^2/NDF : 4523598.2/41
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 4719.572 $\pm$ 0.682	χ^2/NDF : 4301097.1/46
		All: 4643.356 $\pm$ 0.485	χ^2/NDF : 8850012.8/88

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.623 ± 4.058 $\chi^2/\text{NDF}: 22.9/18$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -6.076 ± 4.155 $\chi^2/\text{NDF}: 12.9/21$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

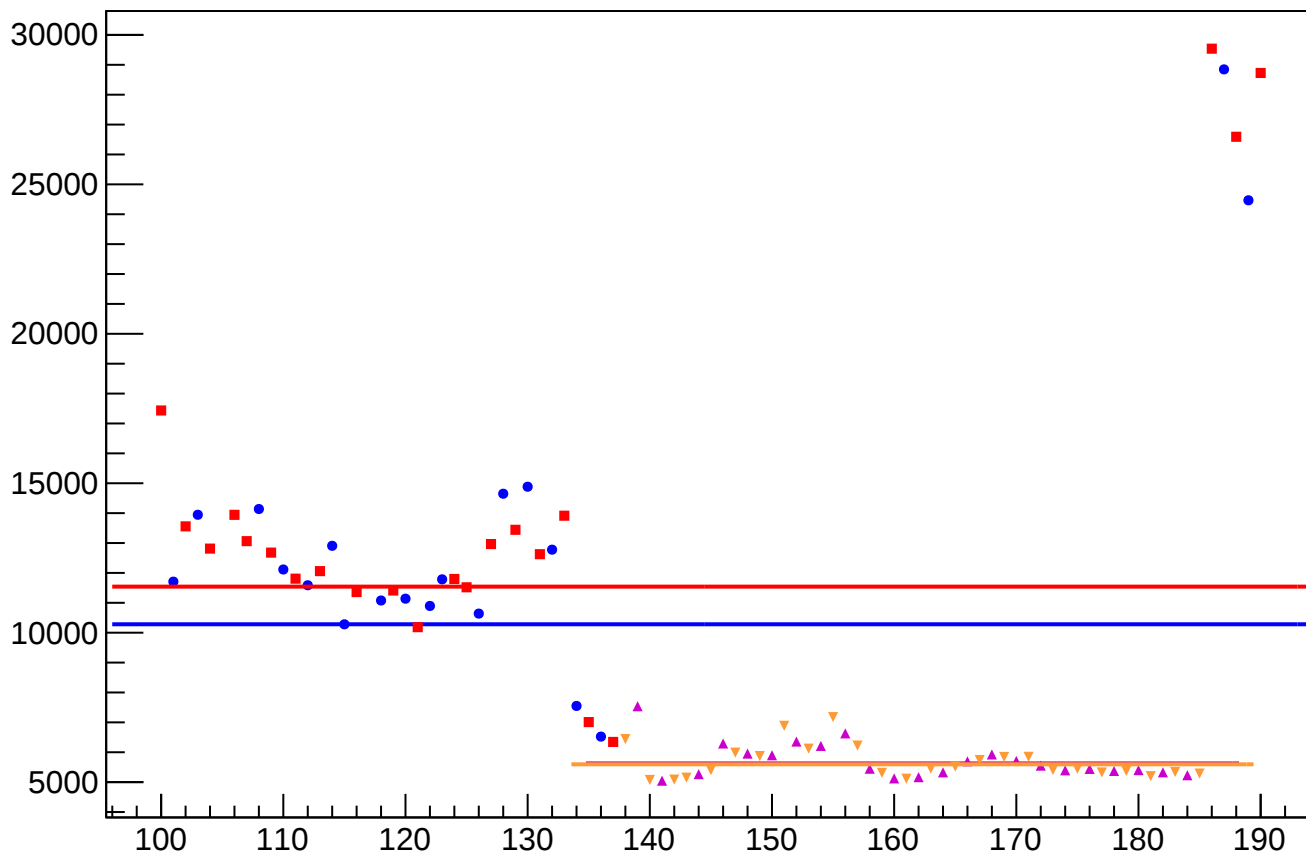
Right: 0.423 ± 2.903 $\chi^2/\text{NDF}: 40.5/40$

In: 0.681 ± 1.284 $\chi^2/\text{NDF}: 55.2/41$

Out: 5.177 ± 1.250 $\chi^2/\text{NDF}: 77.5/46$

All: 2.989 ± 0.895 $\chi^2/\text{NDF}: 138.9/88$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10281.939 $\pm$ 2.870 χ^2 /NDF: 1423700.5/18

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 11541.390 $\pm$ 2.938 χ^2 /NDF: 1895015.8/21

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

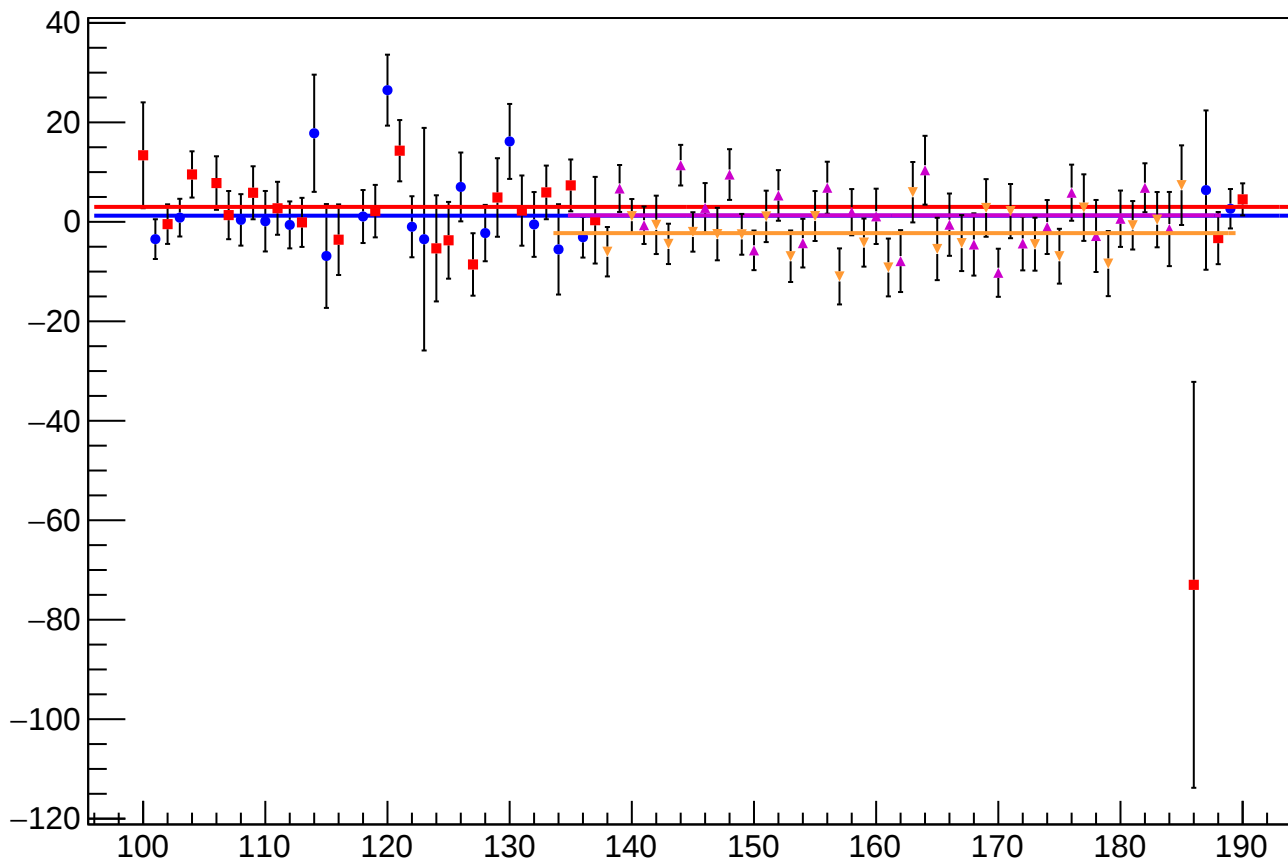
Right: 10896.846 $\pm$ 2.053 χ^2 /NDF: 3412754.8/40

In: 6092.918 $\pm$ 0.908 χ^2 /NDF: 4070653.6/41

Out: 6134.012 $\pm$ 0.884 χ^2 /NDF: 5903036.6/46

All: 6114.018 $\pm$ 0.633 χ^2 /NDF: 9974742.6/88

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.239 ± 1.320 $\chi^2/\text{NDF}: 23.9/18$

Left Out: -2.268 ± 1.029 $\chi^2/\text{NDF}: 15.4/24$

Right Out: 3.006 ± 1.201 $\chi^2/\text{NDF}: 20.6/21$

Left In: 1.305 ± 1.077 $\chi^2/\text{NDF}: 30.8/22$

Left: -0.562 ± 0.744 $\chi^2/\text{NDF}: 51.9/47$

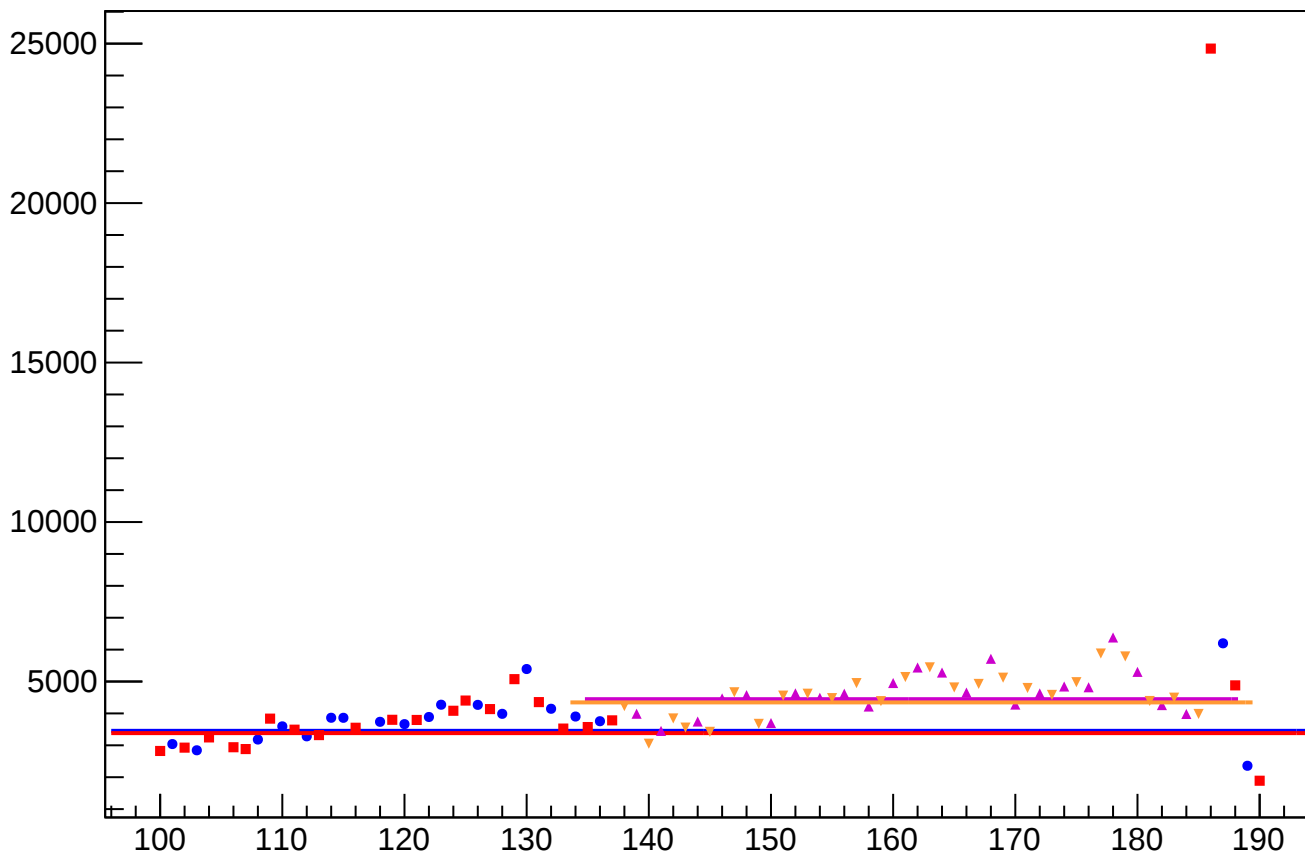
Right: 2.206 ± 0.888 $\chi^2/\text{NDF}: 45.4/40$

In: 1.279 ± 0.835 $\chi^2/\text{NDF}: 54.7/41$

Out: -0.033 ± 0.782 $\chi^2/\text{NDF}: 47.0/46$

All: 0.580 ± 0.570 $\chi^2/\text{NDF}: 103.0/88$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3453.692 $\pm$ 0.933 χ^2/NDF : 535422.3/18

Left Out: 4345.381 $\pm$ 0.728 χ^2/NDF : 1000636.1/24

Right Out: 3382.255 $\pm$ 0.849 χ^2/NDF : 1461475.2/21

Left In: 4446.181 $\pm$ 0.762 χ^2/NDF : 702797.6/22

Left: 4393.504 $\pm$ 0.526 χ^2/NDF : 1712588.4/47

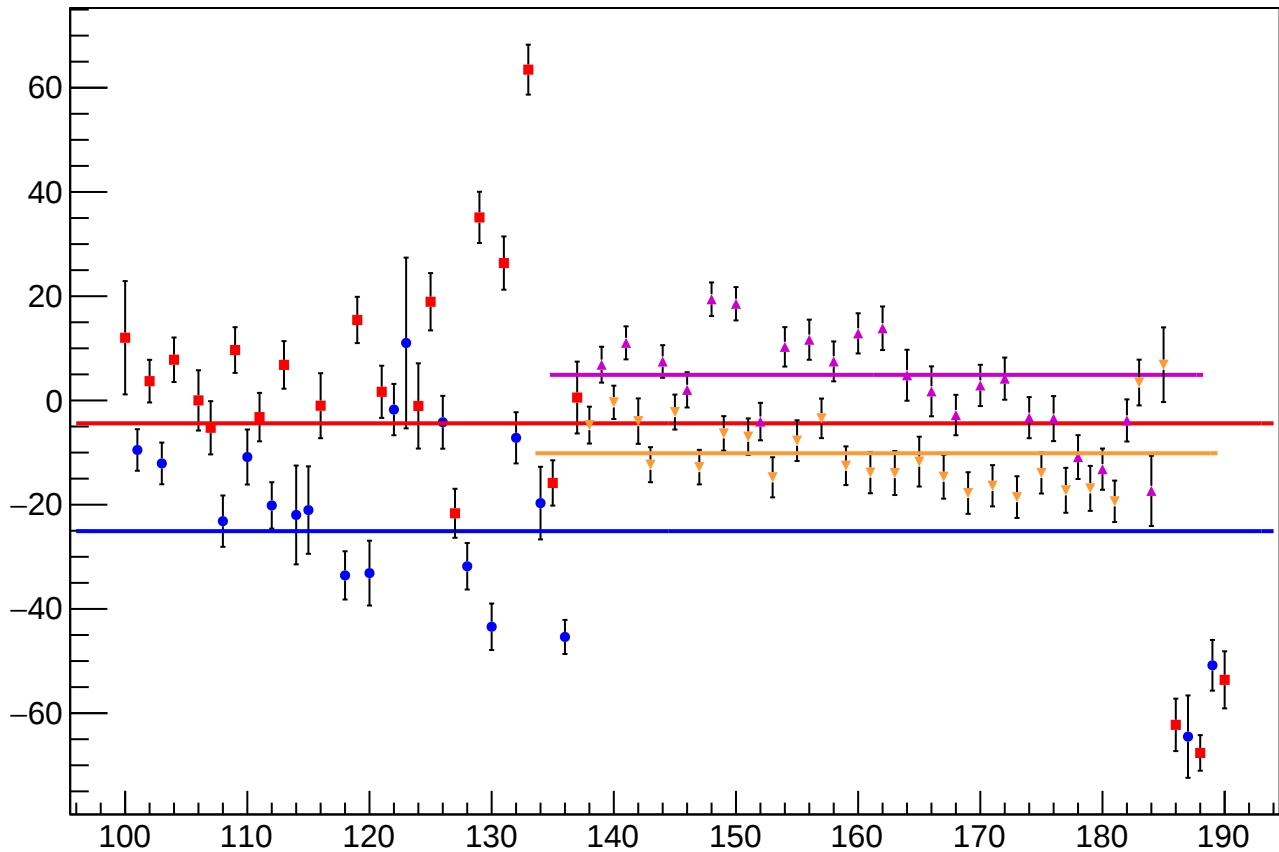
Right: 3414.601 $\pm$ 0.628 χ^2/NDF : 2000102.7/40

In: 4049.520 $\pm$ 0.590 χ^2/NDF : 1916956.0/41

Out: 3937.373 $\pm$ 0.553 χ^2/NDF : 3203731.3/46

All: 3989.774 $\pm$ 0.403 χ^2/NDF : 5139929.3/80

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -25.075±/-1.155 χ^2/NDF : 208.8/18

Left Out: -10.125±/-0.775 χ^2/NDF : 67.9/24

Right Out: -4.385±/-1.052 χ^2/NDF : 949.6/21

Left In: 4.911±/-0.797 χ^2/NDF : 127.9/22

Left: -2.814±/-0.556 χ^2/NDF : 378.7/47

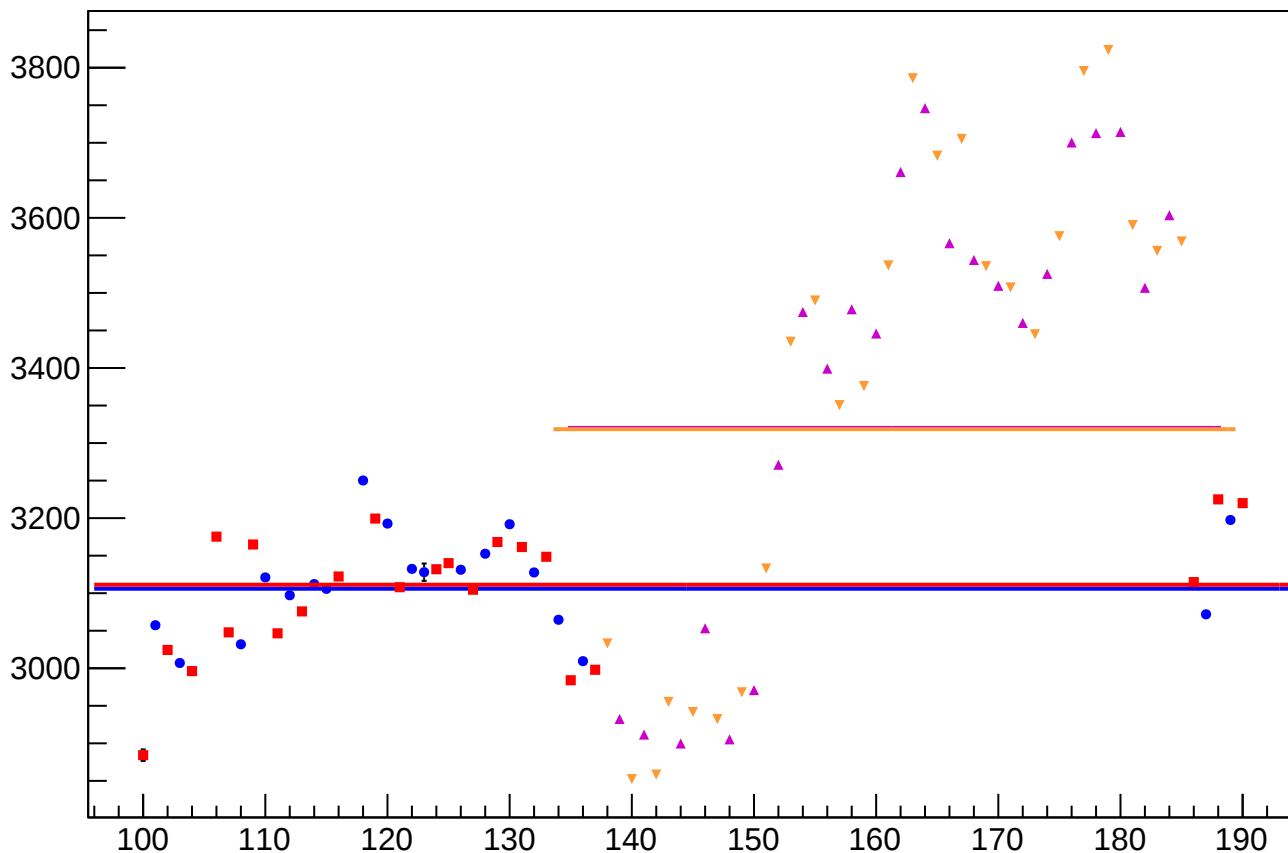
Right: -13.769±/-0.778 χ^2/NDF : 1333.8/40

In: -4.764±/-0.656 χ^2/NDF : 793.3/41

Out: -8.104±/-0.624 χ^2/NDF : 1036.8/46

All: -6.517±/-0.452 χ^2/NDF : 1843.7/88

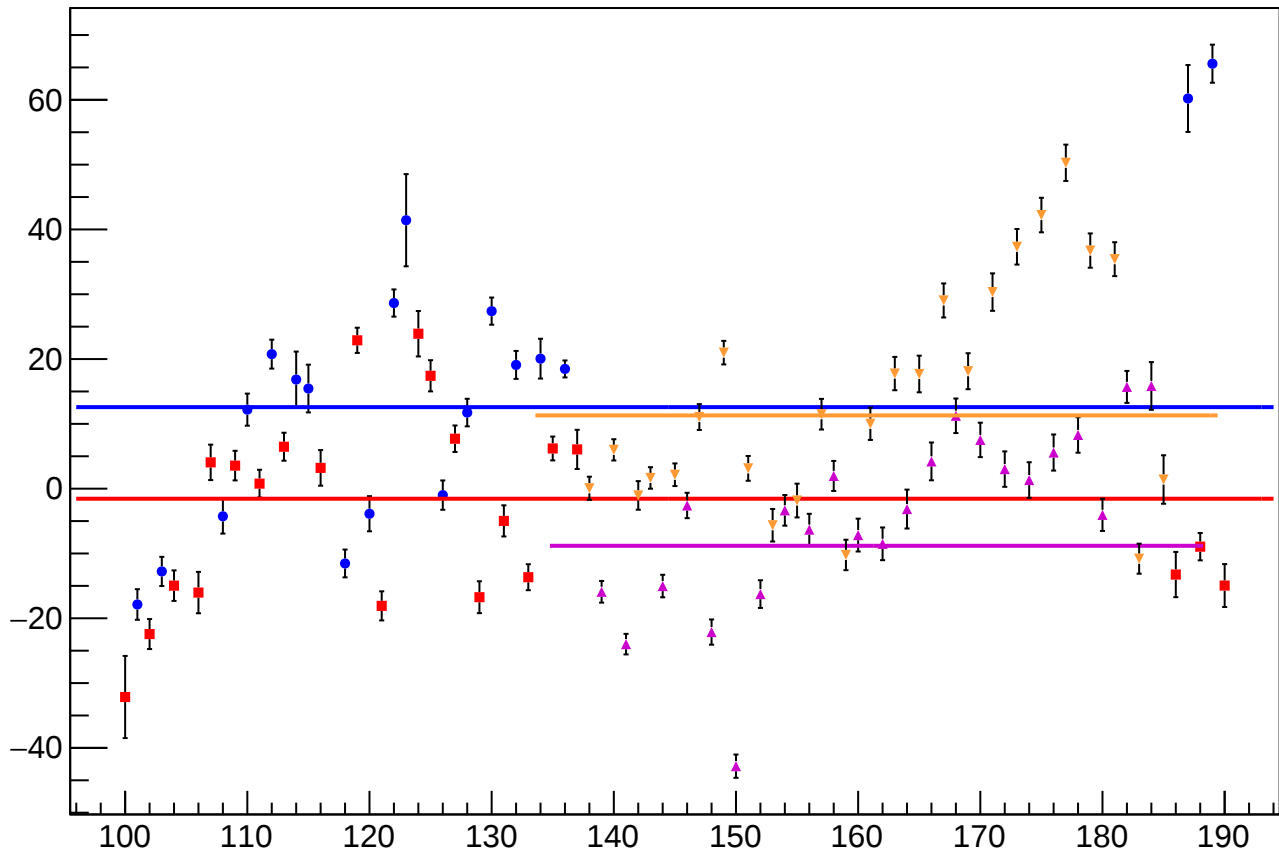
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3105.963 $\pm$ 0.817 χ^2 /NDF: 8003.5/18
 Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24
 Right Out: 3111.307 $\pm$ 0.744 χ^2 /NDF: 11303.1/21
 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: 3108.884 $\pm$ 0.550 χ^2 /NDF: 19329.9/40
 In: 3251.052 $\pm$ 0.464 χ^2 /NDF:342239.6/41
 Out: 3245.576 $\pm$ 0.441 χ^2 /NDF:399255.3/46
 All: 3248.178 $\pm$ 0.320 χ^2 /NDF: 741568.0/88

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 12.583 $\pm$ 0.549 χ^2 /NDF: 1118.9/18

Left Out: 11.305 $\pm$ 0.454 χ^2 /NDF:1144.3/24

Right Out: -1.552 $\pm$ 0.518 χ^2 /NDF: 673.4/21

Left In: -8.815 $\pm$ 0.475 χ^2 /NDF:942.2/22

Left: 1.711 $\pm$ 0.328 χ^2 /NDF: 3023.6/47

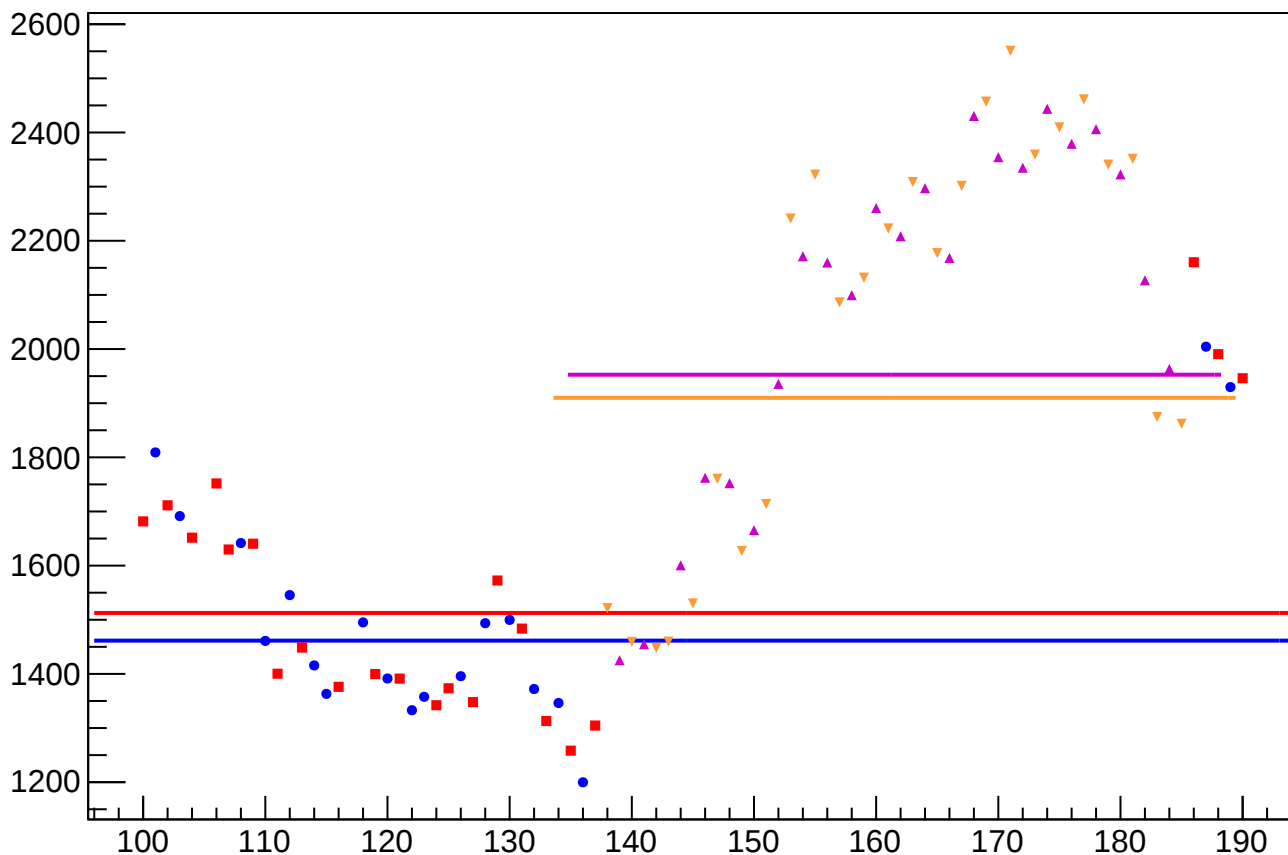
Right: 5.097 $\pm$ 0.377 χ^2 /NDF: 2142.8/40

In: 0.345 $\pm$ 0.360 χ^2 /NDF:2928.5/41

Out: 5.720 $\pm$ 0.341 χ^2 /NDF:2166.3/46

All: 3.172 $\pm$ 0.248 χ^2 /NDF: 5212.3/88

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1461.448 $\pm$ 0.389 χ^2/NDF : 249731.6/18

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF :1399467.7/24

Right Out: 1512.572 $\pm$ 0.366 χ^2/NDF : 368478.1/21

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

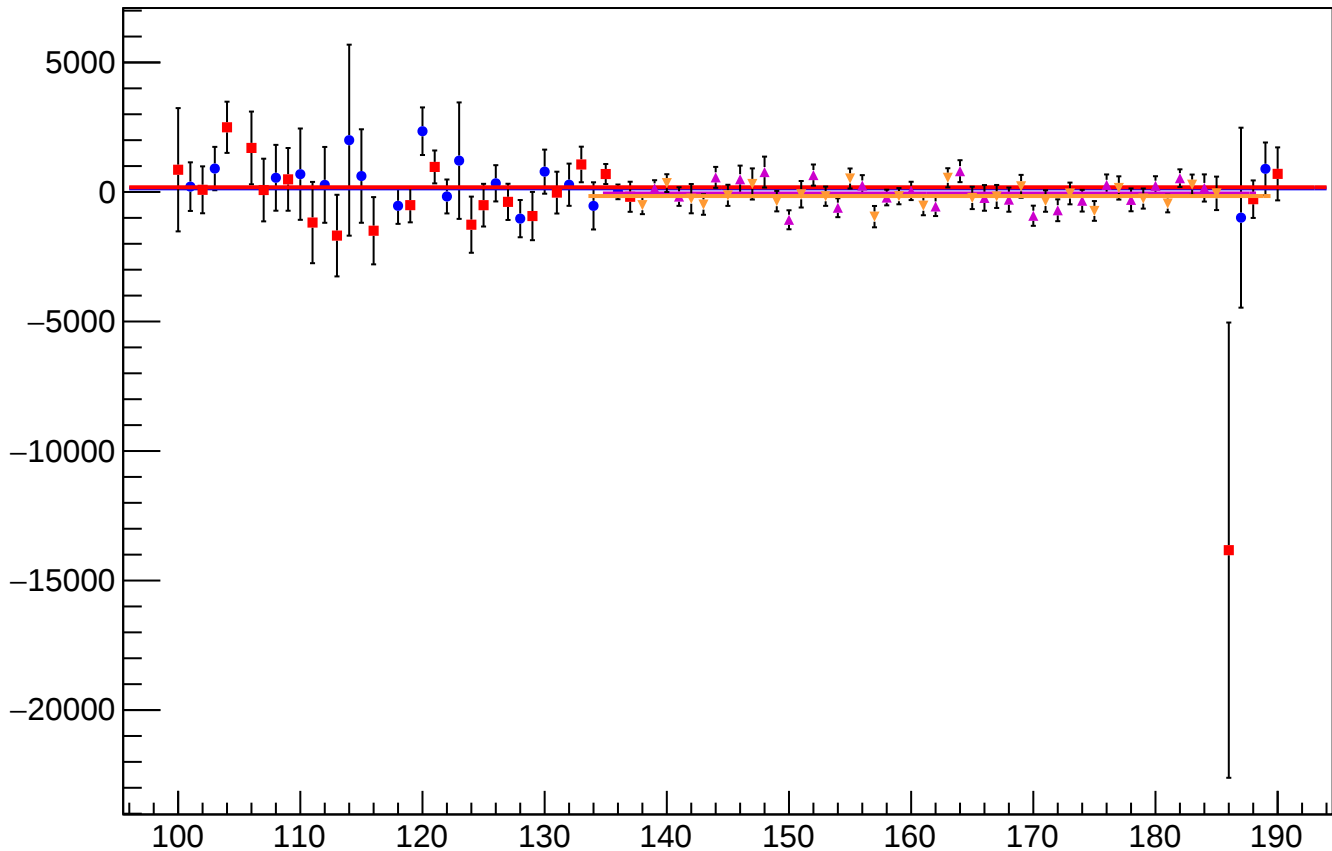
Right: 1488.523 $\pm$ 0.266 χ^2/NDF : 627378.9/40

In: 1742.374 $\pm$ 0.254 χ^2/NDF :2229140.7/41

Out: 1737.330 $\pm$ 0.241 χ^2/NDF :2434060.3/46

All: 1739.721 $\pm$ 0.175 χ^2/NDF : 4663408.1/88

asym_sam1_mean vs Slug, Sign Corrected



Right In: 140.046+/-177.587 χ^2/NDF : 13.3/18

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 181.386+/-176.337 χ^2/NDF : 24.9/21

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

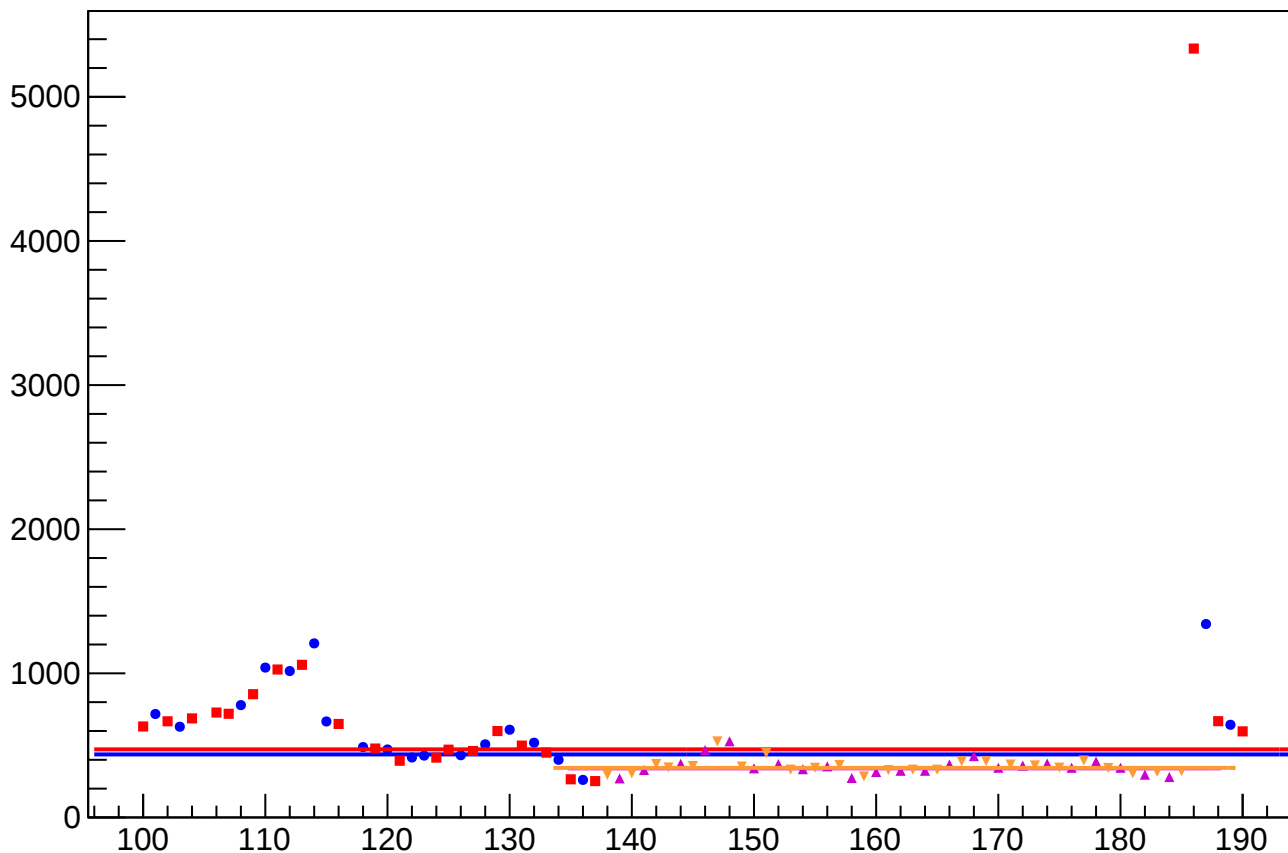
Right: 160.862+/-125.129 χ^2/NDF : 38.2/40

In: -23.554+/-74.883 χ^2/NDF :52.9/41

Out: -98.486+/-73.453 χ^2/NDF :50.0/46

All: -61.743+/-52.437 χ^2/NDF : 103.3/88

asym_sam1_rms vs Slug, Sign Corrected



Right In: 437.357+/-0.126 χ^2/NDF : 2229343.0/18

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 472.523+/-0.125 χ^2/NDF : 2841217.4/21

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

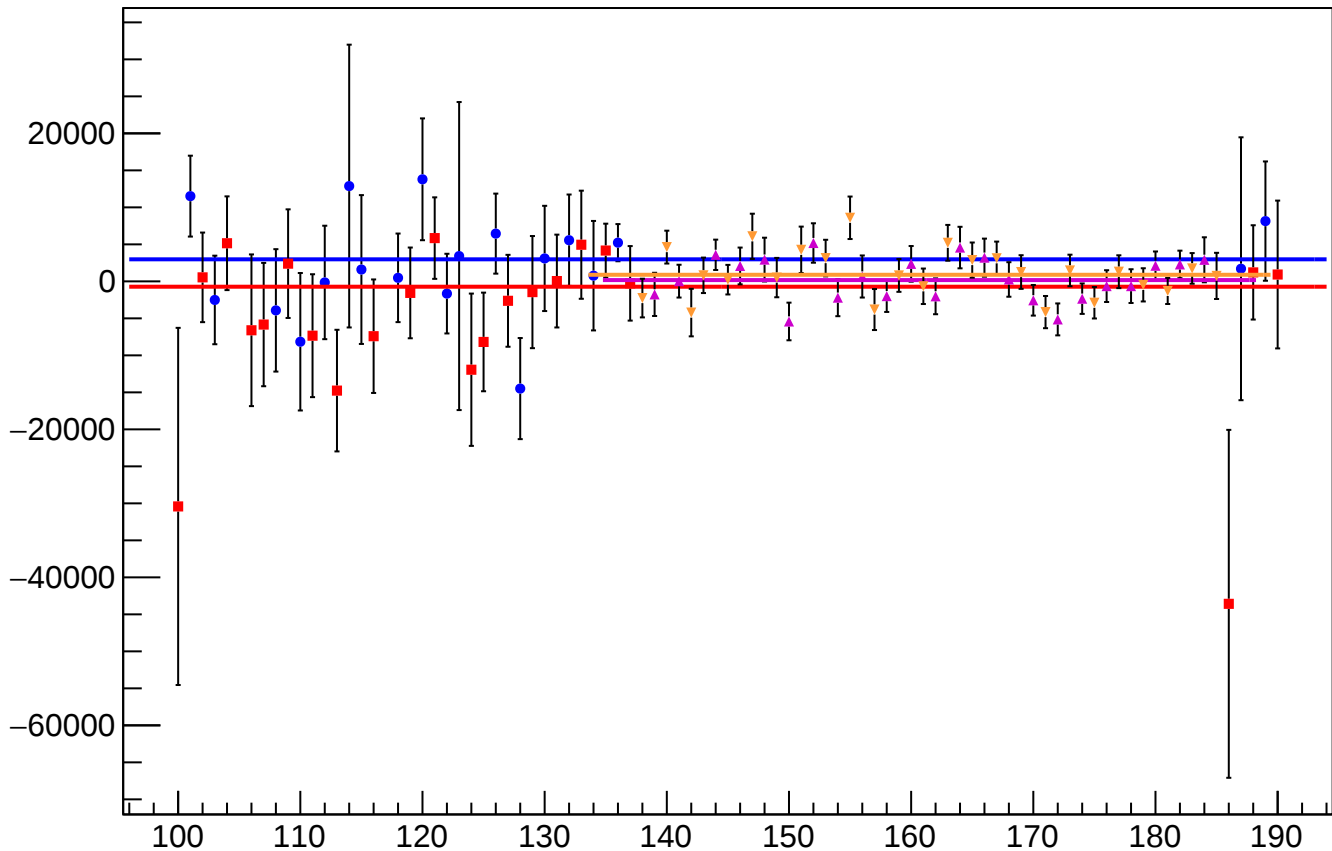
Right: 455.064+/-0.088 χ^2/NDF : 5110051.0/40

In: 358.031+/-0.053 χ^2/NDF : 3439373.7/41

Out: 366.141+/-0.052 χ^2/NDF : 4261397.0/46

All: 362.164+/-0.037 χ^2/NDF : 7712724.7/88

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2978.503 ± 1423.256 χ^2/NDF : 16.9/18

Left Out: 890.395 ± 473.262 χ^2/NDF : 38.0/24

Right Out: -722.389 ± 1453.203 χ^2/NDF : 17.5/21

Left In: 172.391 ± 488.067 χ^2/NDF : 33.2/22

Left: 542.448 ± 339.760 χ^2/NDF : 72.3/47

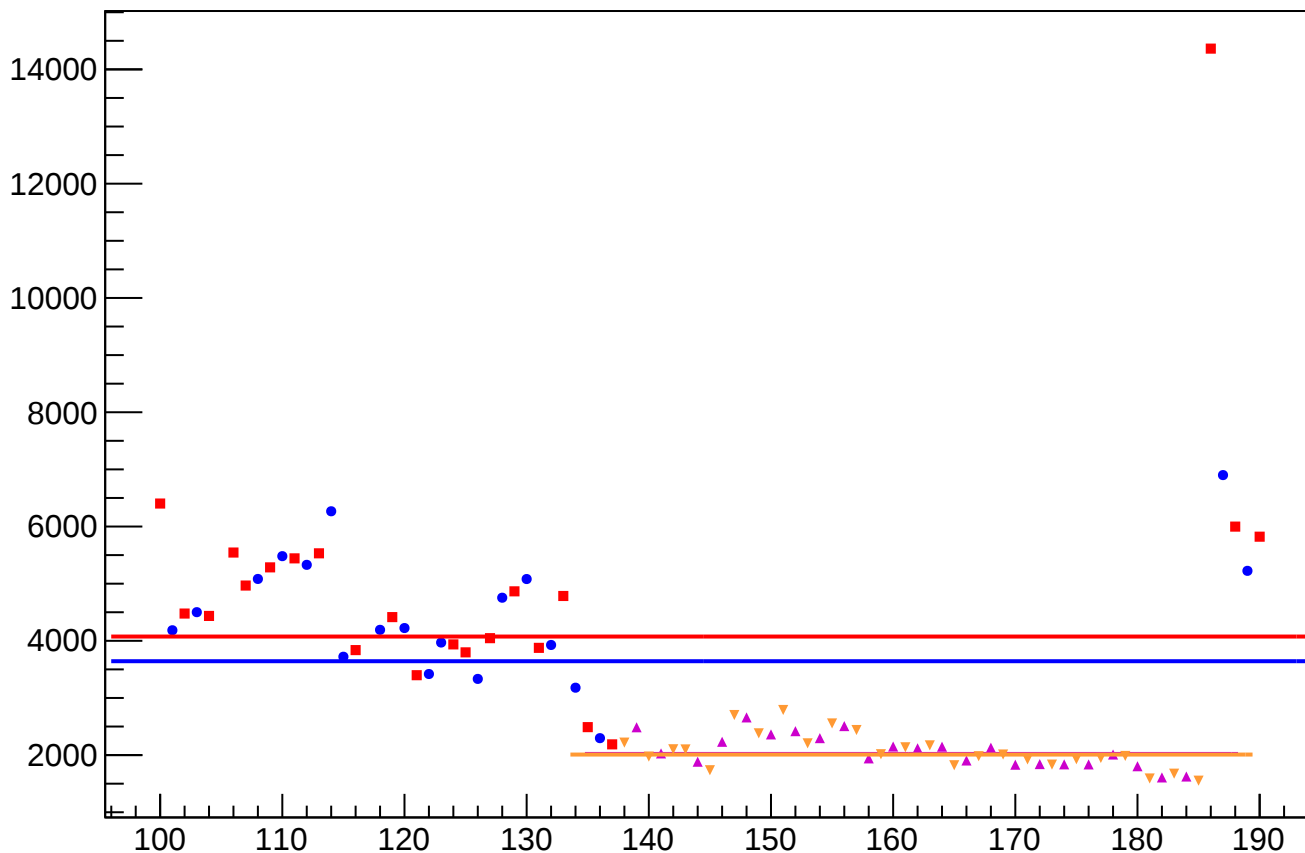
Right: 1166.584 ± 1016.817 χ^2/NDF : 37.7/40

In: 467.657 ± 461.676 χ^2/NDF : 53.6/41

Out: 735.746 ± 450.000 χ^2/NDF : 56.6/46

All: 605.134 ± 322.247 χ^2/NDF : 110.3/88

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3643.152 $\pm$ 1.006 χ^2 /NDF: 1237215.6/18

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4074.839 $\pm$ 1.028 χ^2 /NDF: 1643061.1/21

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

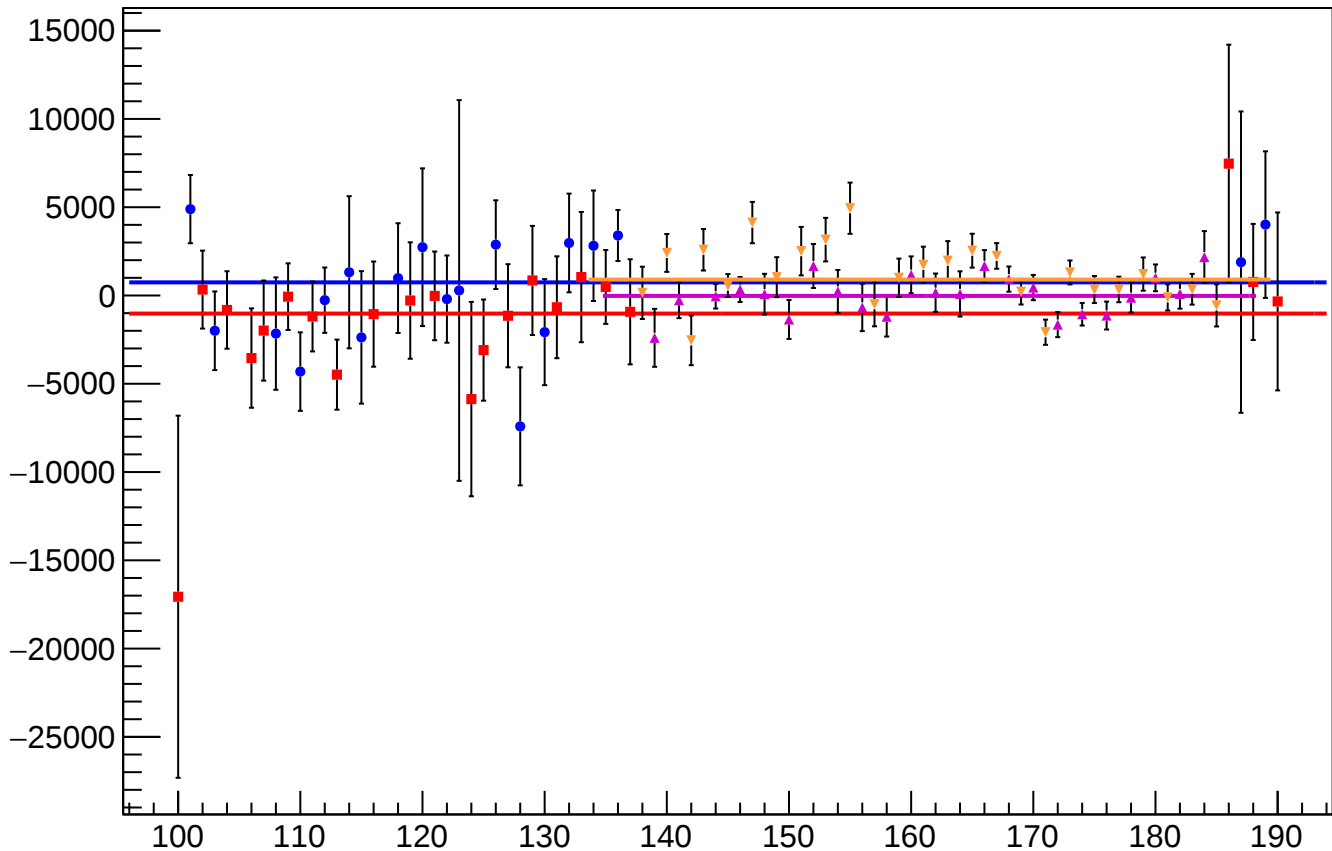
Right: 3854.502 $\pm$ 0.719 χ^2 /NDF: 2970358.1/40

In: 2191.119 $\pm$ 0.326 χ^2 /NDF: 4137191.5/41

Out: 2207.663 $\pm$ 0.318 χ^2 /NDF: 6005000.6/46

All: 2199.603 $\pm$ 0.228 χ^2 /NDF: 10143509.1/8

asym_sam3_mean vs Slug, Sign Corrected



Right In: 743.064 $\pm$ 614.033 χ^2 /NDF: 26.1/18

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF: 63.5/24

Right Out: -1023.772 $\pm$ 588.056 χ^2 /NDF: 11.7/21

Left In: -23.529 $\pm$ 188.137 χ^2 /NDF: 28.2/22

Left: 444.940 $\pm$ 132.217 χ^2 /NDF: 104.0/47

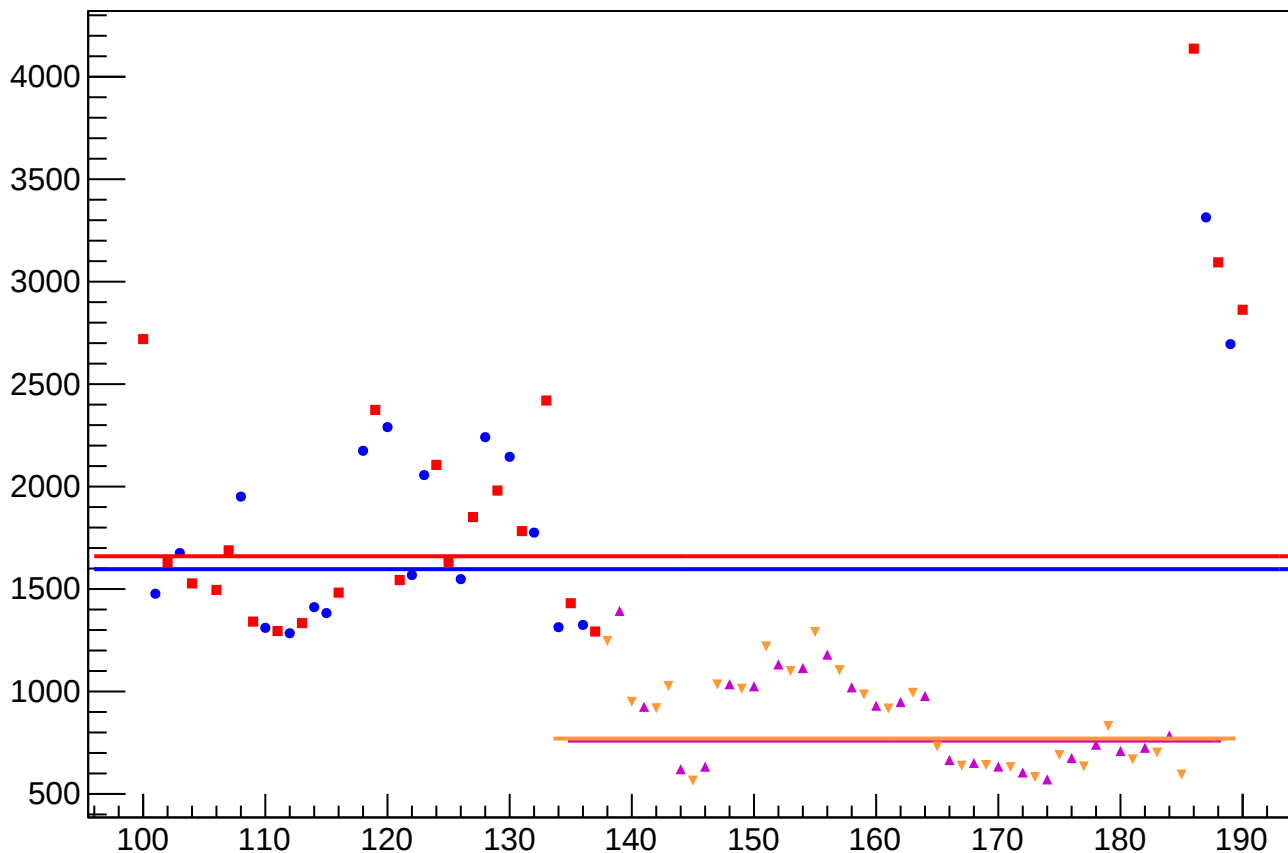
Right: -178.516 $\pm$ 424.705 χ^2 /NDF: 42.1/40

In: 42.261 $\pm$ 179.883 χ^2 /NDF: 55.8/41

Out: 727.200 $\pm$ 177.211 χ^2 /NDF: 85.0/46

All: 389.855 $\pm$ 126.241 χ^2 /NDF: 148.1/88

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1596.929 $\pm$ 0.434 χ^2 /NDF: 714474.6/18

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1660.004 $\pm$ 0.416 χ^2 /NDF: 1271078.6/21

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF: 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

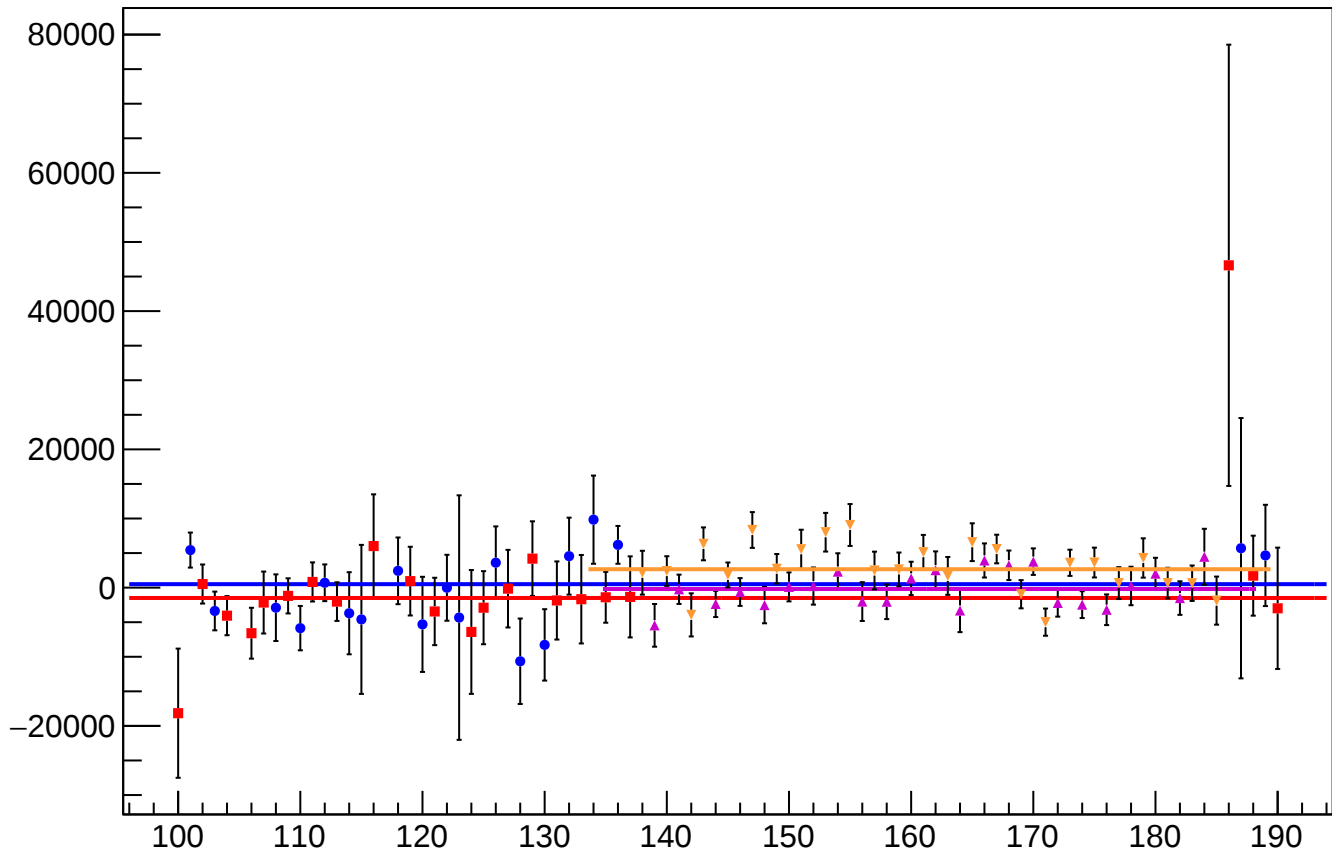
Right: 1629.828 $\pm$ 0.300 χ^2 /NDF: 1996560.9/40

In: 832.148 $\pm$ 0.127 χ^2 /NDF: 6095053.7/41

Out: 851.114 $\pm$ 0.125 χ^2 /NDF: 7720880.7/46

All: 841.773 $\pm$ 0.089 χ^2 /NDF: 13827217.1/88

asym_sam4_mean vs Slug, Sign Corrected



Right In: 502.879 $\pm$ 987.548 χ^2/NDF : 25.7/18

Left Out: 2665.587 $\pm$ 479.773 χ^2/NDF : 49.2/24

Right Out: -1494.550 $\pm$ 908.853 χ^2/NDF : 12.7/21

Left In: -199.371 $\pm$ 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2/NDF : 92.4/47

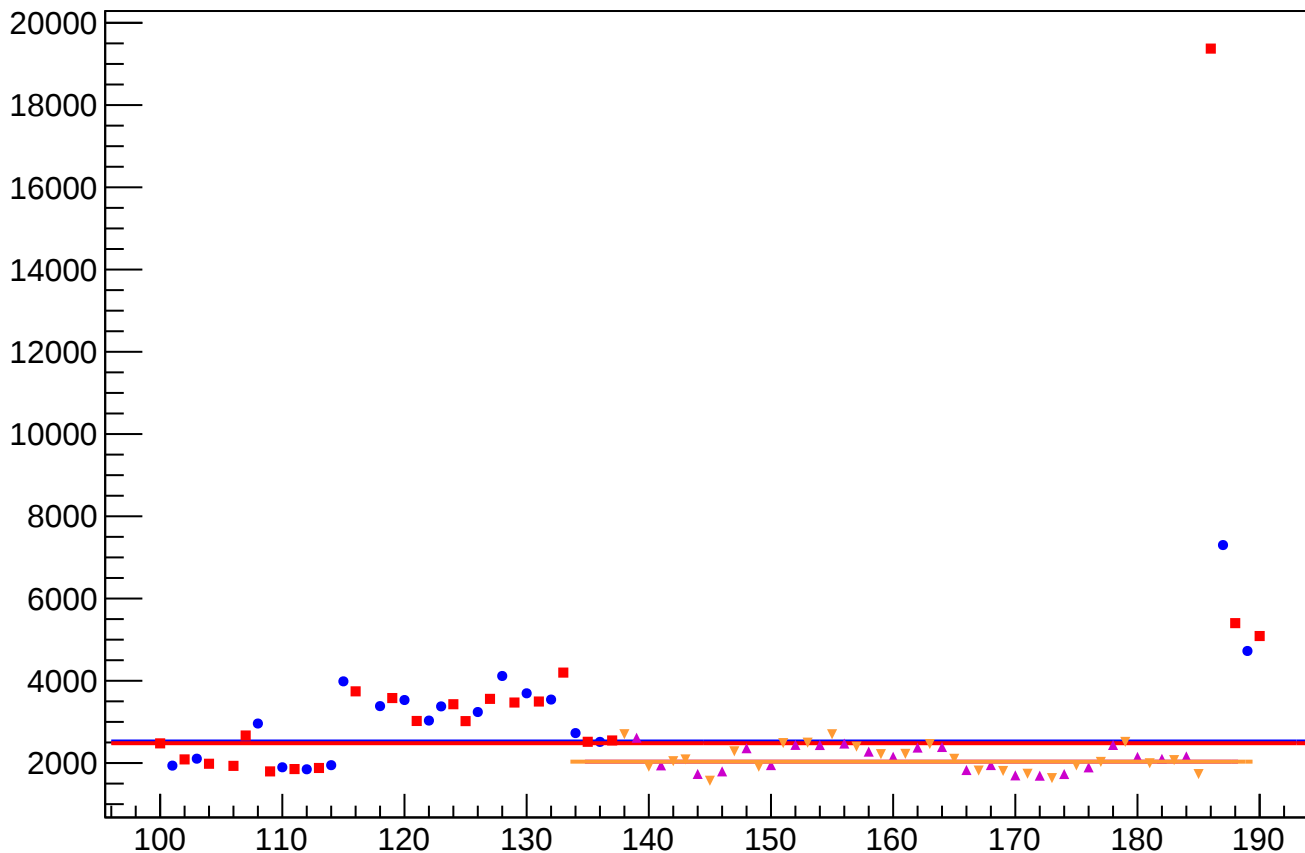
Right: -578.580 $\pm$ 668.749 χ^2/NDF : 40.7/40

In: -59.690 $\pm$ 440.433 χ^2/NDF : 51.9/41

Out: 1758.947 $\pm$ 424.285 χ^2/NDF : 78.3/46

All: 883.579 $\pm$ 305.564 χ^2/NDF : 139.1/88

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2523.531+/-0.698 χ^2/NDF : 1215492.1/18

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2481.874+/-0.643 χ^2/NDF : 2305106.3/21

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

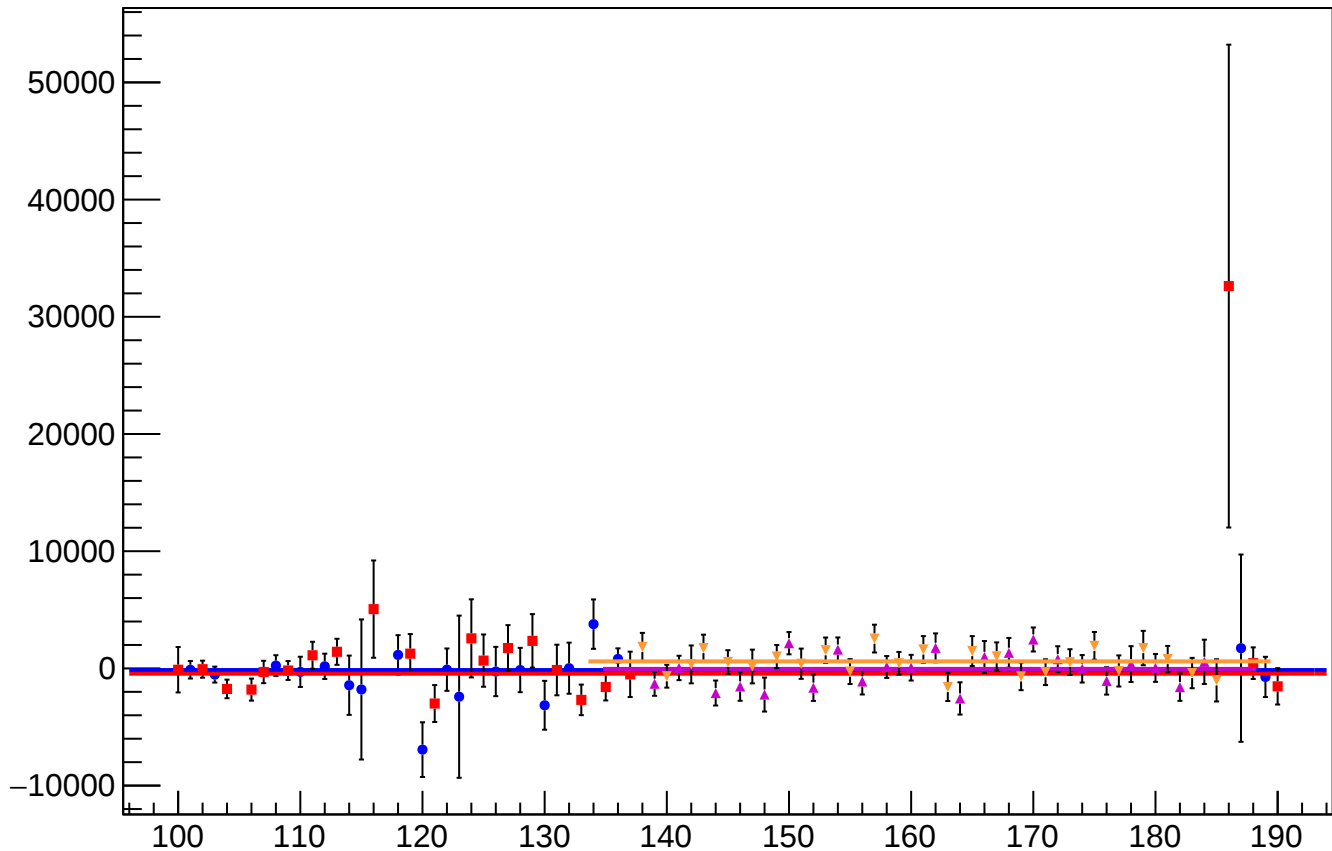
Right: 2500.976+/-0.473 χ^2/NDF : 3522525.1/40

In: 2130.292+/-0.311 χ^2/NDF : 2264115.8/41

Out: 2131.089+/-0.300 χ^2/NDF : 3510130.6/46

All: 2130.705+/-0.216 χ^2/NDF : 5774249.8/88

asym_sam5_mean vs Slug, Sign Corrected



Right In: -141.065+/-308.398 χ^2/NDF : 17.0/18

Left Out: 600.005+/-234.968 χ^2/NDF : 18.5/24

Right Out: -451.360+/-272.745 χ^2/NDF : 26.6/21

Left In: -41.559+/-240.807 χ^2/NDF : 36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

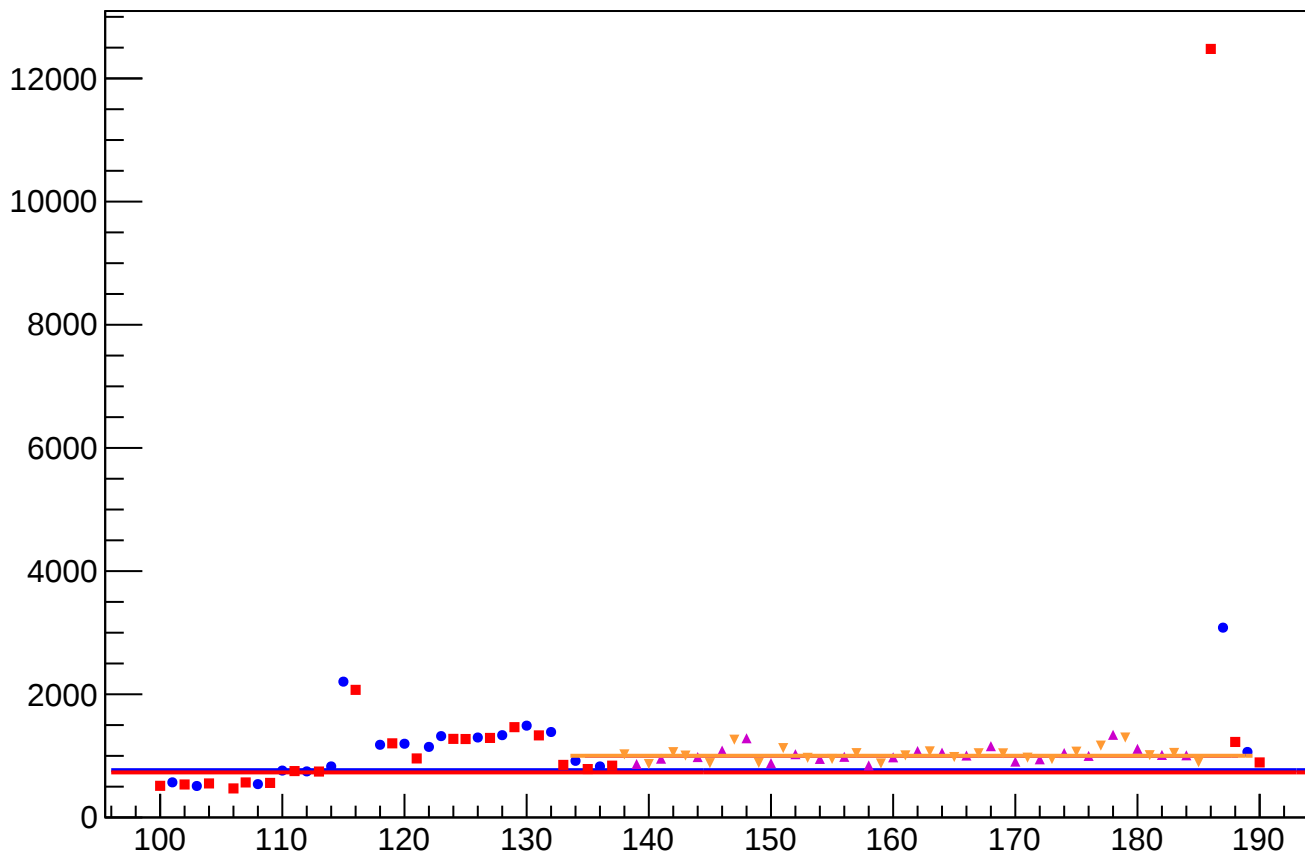
Right: -315.177+/-204.308 χ^2/NDF : 44.1/40

In: -79.249+/-189.800 χ^2/NDF : 53.4/41

Out: 152.120+/-178.018 χ^2/NDF : 53.6/46

All: 43.840+/-129.843 χ^2/NDF : 107.8/88

asym_sam5_rms vs Slug, Sign Corrected



Right In: 767.661 $\pm$ 0.218 χ^2 /NDF: 1919979.6/18

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 731.504 $\pm$ 0.193 χ^2 /NDF: 2652029.1/21

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

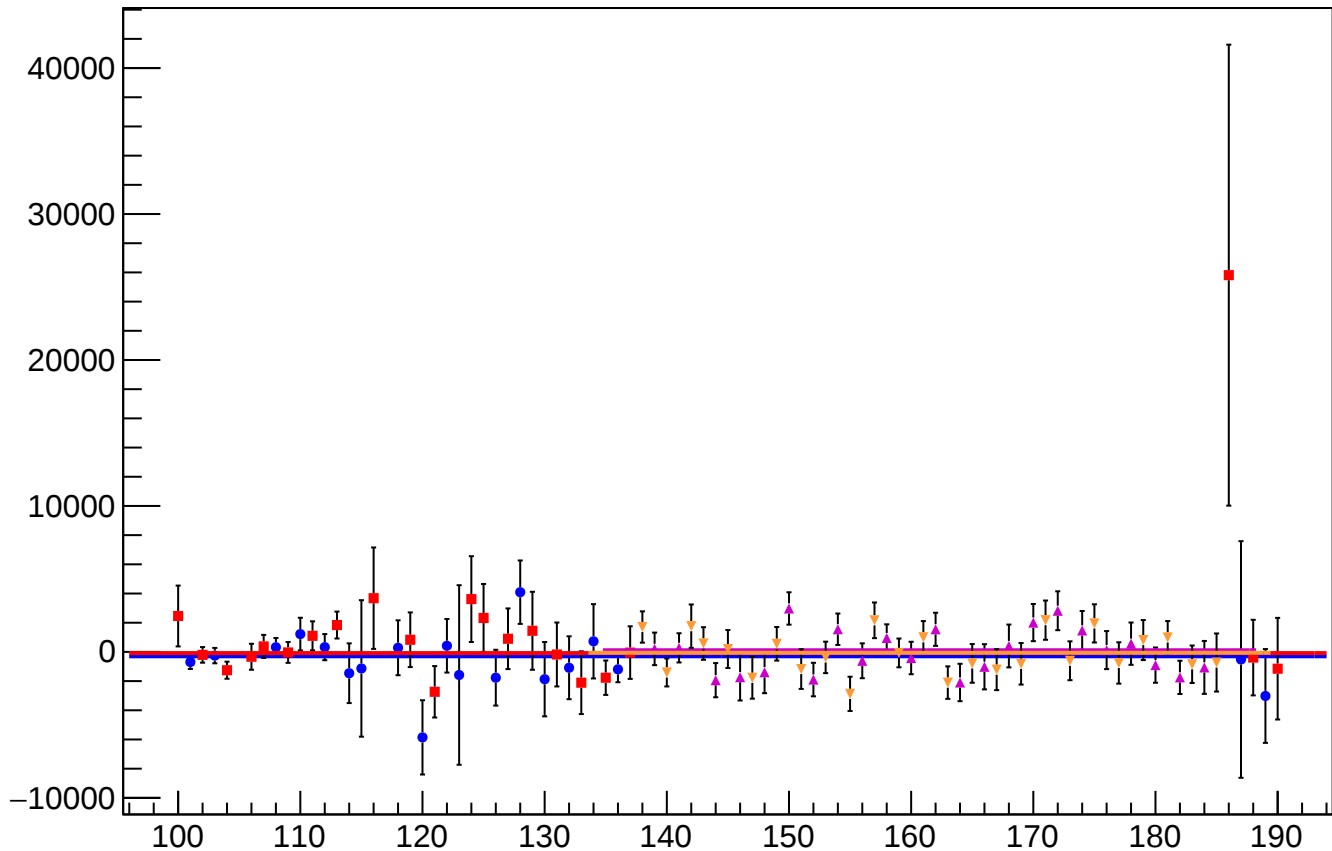
Right: 747.373 $\pm$ 0.144 χ^2 /NDF: 4587434.2/40

In: 910.786 $\pm$ 0.134 χ^2 /NDF: 3018041.6/41

Out: 886.465 $\pm$ 0.126 χ^2 /NDF: 4147057.6/46

All: 897.847 $\pm$ 0.092 χ^2 /NDF: 7182570.6/88

asym_sam6_mean vs Slug, Sign Corrected



Right In: -299.920+/-249.805 χ^2/NDF : 16.5/18

Left Out: -59.827+/-246.503 χ^2/NDF :31.0/24

Right Out: -79.456+/-244.470 χ^2/NDF : 24.4/21

Left In: 112.398+/-255.409 χ^2/NDF :34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

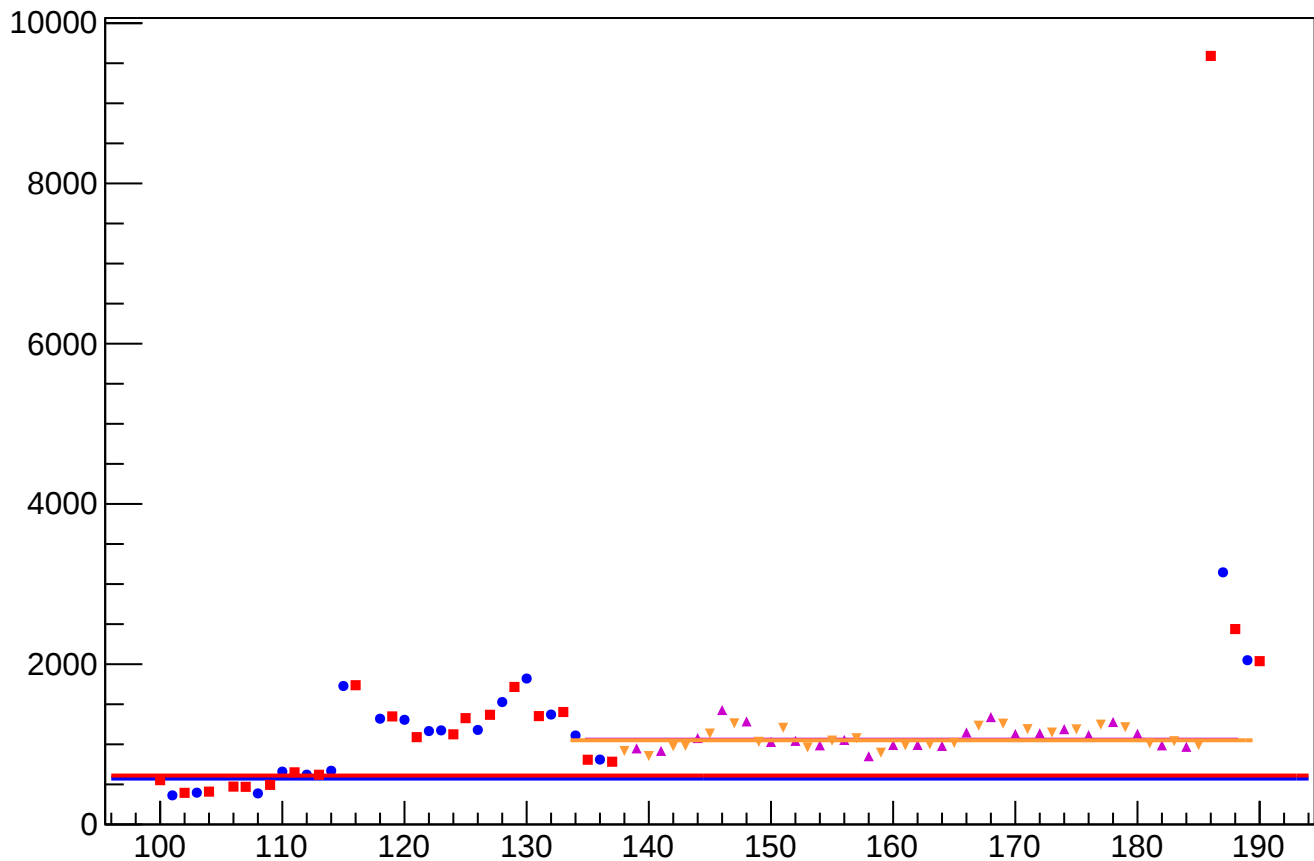
Right: -187.309+/-174.722 χ^2/NDF : 41.3/40

In: -98.334+/-178.587 χ^2/NDF :52.7/41

Out: -69.723+/-173.581 χ^2/NDF :55.4/46

All: -83.622+/-124.472 χ^2/NDF : 108.1/88

asym_sam6_rms vs Slug, Sign Corrected



Right In: 572.766+/-0.177 χ^2/NDF : 3839440.3/18

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 610.207+/-0.173 χ^2/NDF : 4816587.6/21

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

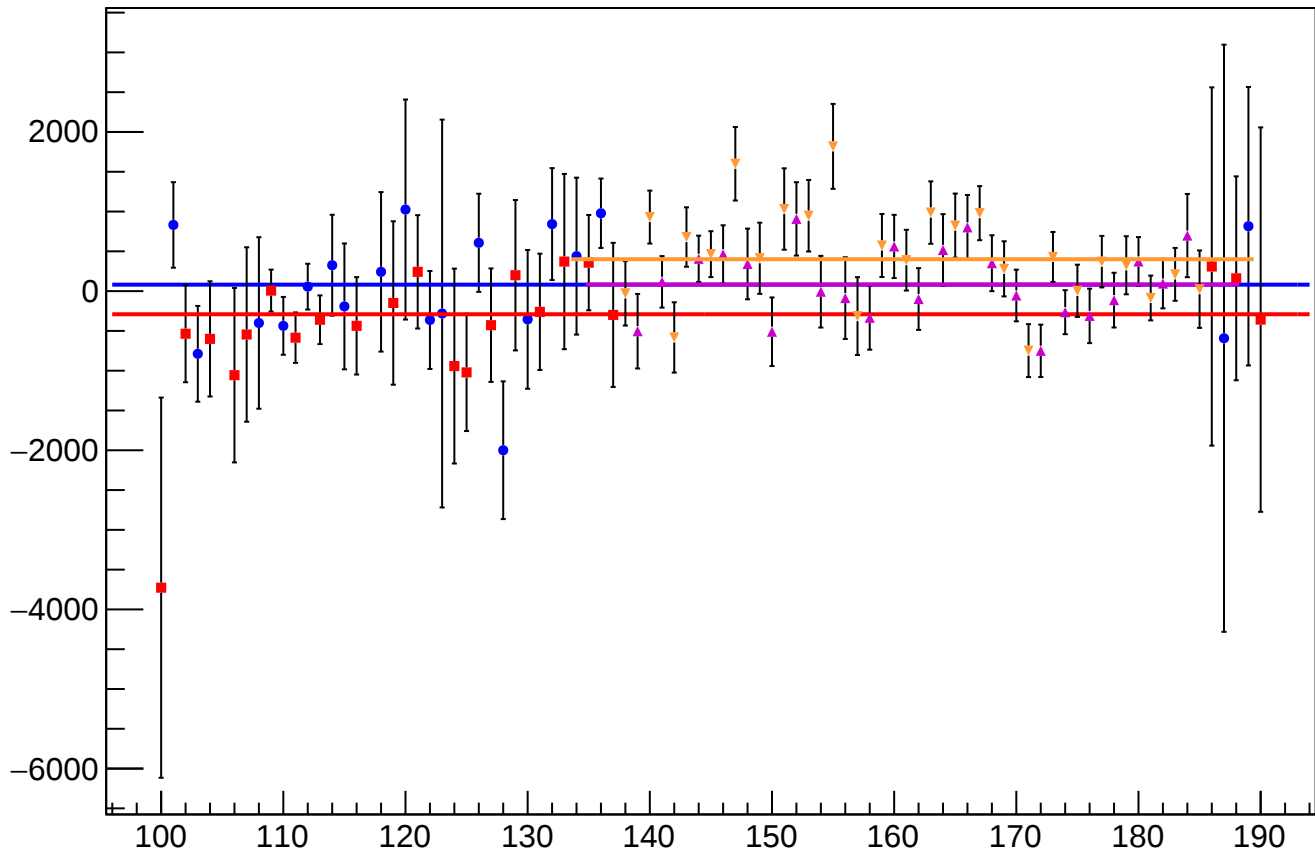
Right: 591.891+/-0.124 χ^2/NDF : 8678976.2/40

In: 810.049+/-0.126 χ^2/NDF : 8058900.5/41

Out: 828.604+/-0.123 χ^2/NDF : 8518686.7/46

All: 819.590+/-0.088 χ^2/NDF : 16588689.8/88

asym_sam7_mean vs Slug, Sign Corrected



Right In: 81.325+/-142.685 χ^2/NDF : 20.1/18

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -290.768+/-128.757 χ^2/NDF : 9.1/21

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

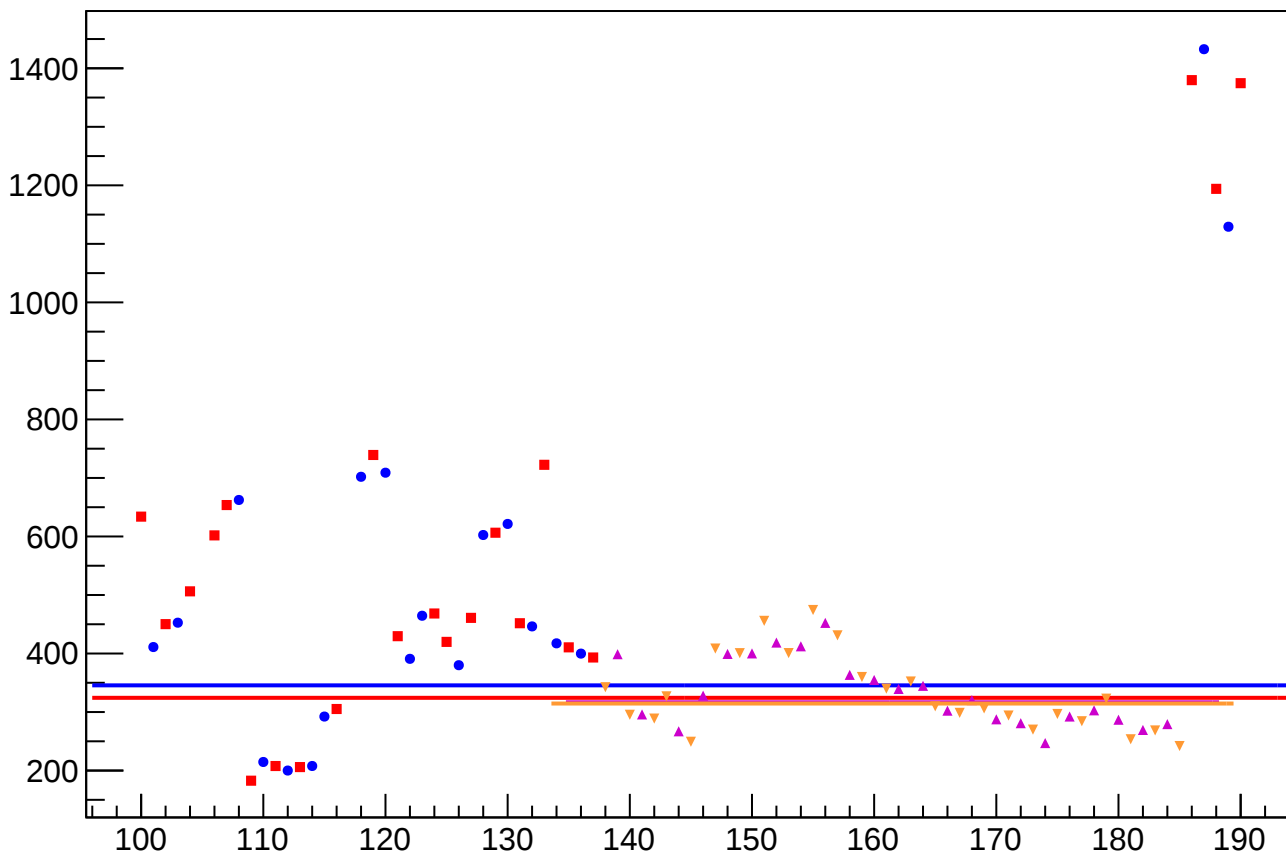
Right: -123.763+/-95.591 χ^2/NDF : 32.9/40

In: 82.538+/-67.697 χ^2/NDF : 49.1/41

Out: 227.322+/-64.514 χ^2/NDF : 82.8/46

All: 158.414+/-46.703 χ^2/NDF : 134.2/88

asym_sam7_rms vs Slug, Sign Corrected



Right In: 345.598 ± 0.101 χ^2/NDF : 2586952.6/18

Left Out: 314.538 ± 0.053 χ^2/NDF : 1112445.6/24

Right Out: 324.304 ± 0.091 χ^2/NDF : 4500384.0/21

Left In: 316.647 ± 0.054 χ^2/NDF : 920874.0/22

Left: 315.560 ± 0.038 χ^2/NDF : 2034094.8/47

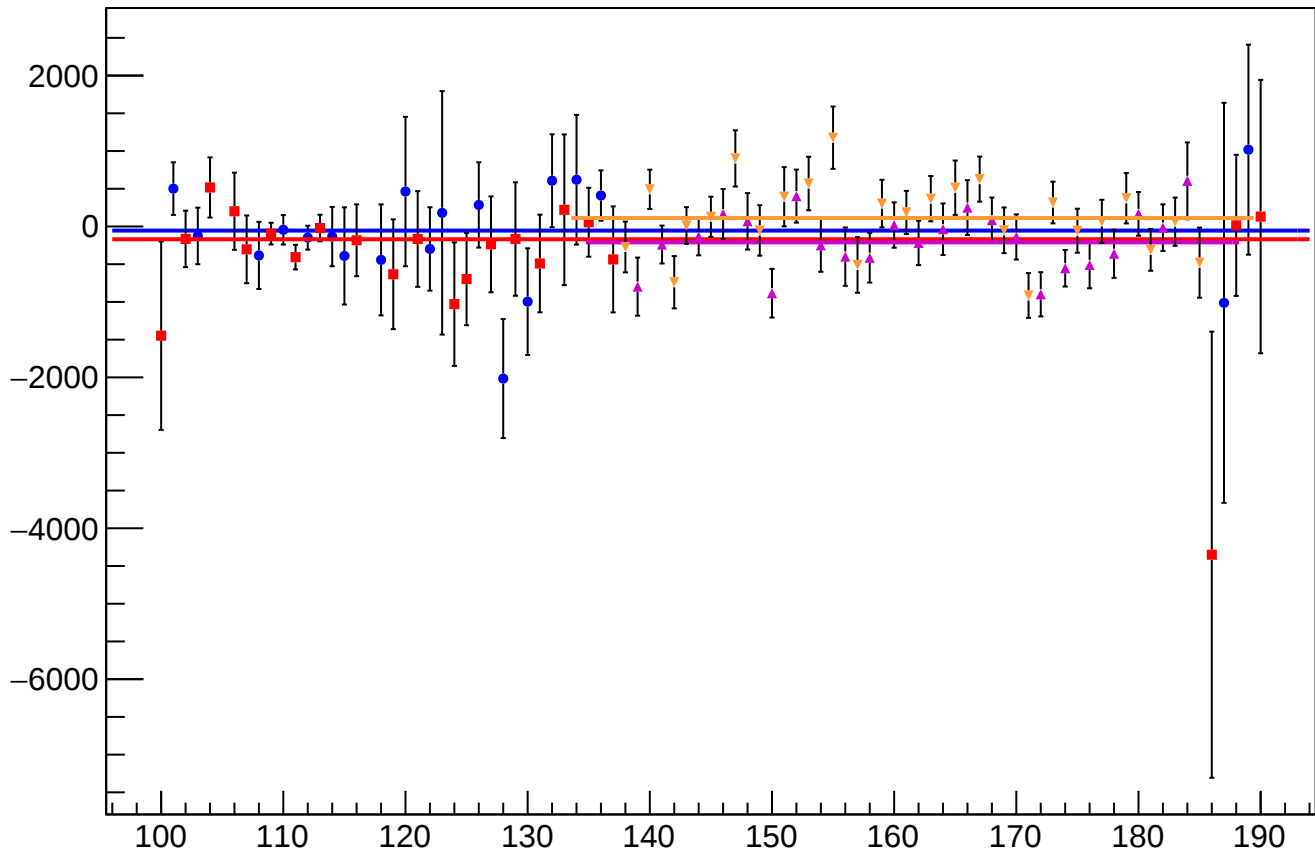
Right: 333.862 ± 0.068 χ^2/NDF : 7111888.4/40

In: 323.164 ± 0.048 χ^2/NDF : 3571632.5/41

Out: 316.990 ± 0.046 χ^2/NDF : 5621446.9/46

All: 319.928 ± 0.033 χ^2/NDF : 9201797.0/88

asym_sam8_mean vs Slug, Sign Corrected



Right In: -54.417 ± 90.450 χ^2/NDF : 17.3/18

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -169.365 ± 76.614 χ^2/NDF : 12.9/21

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

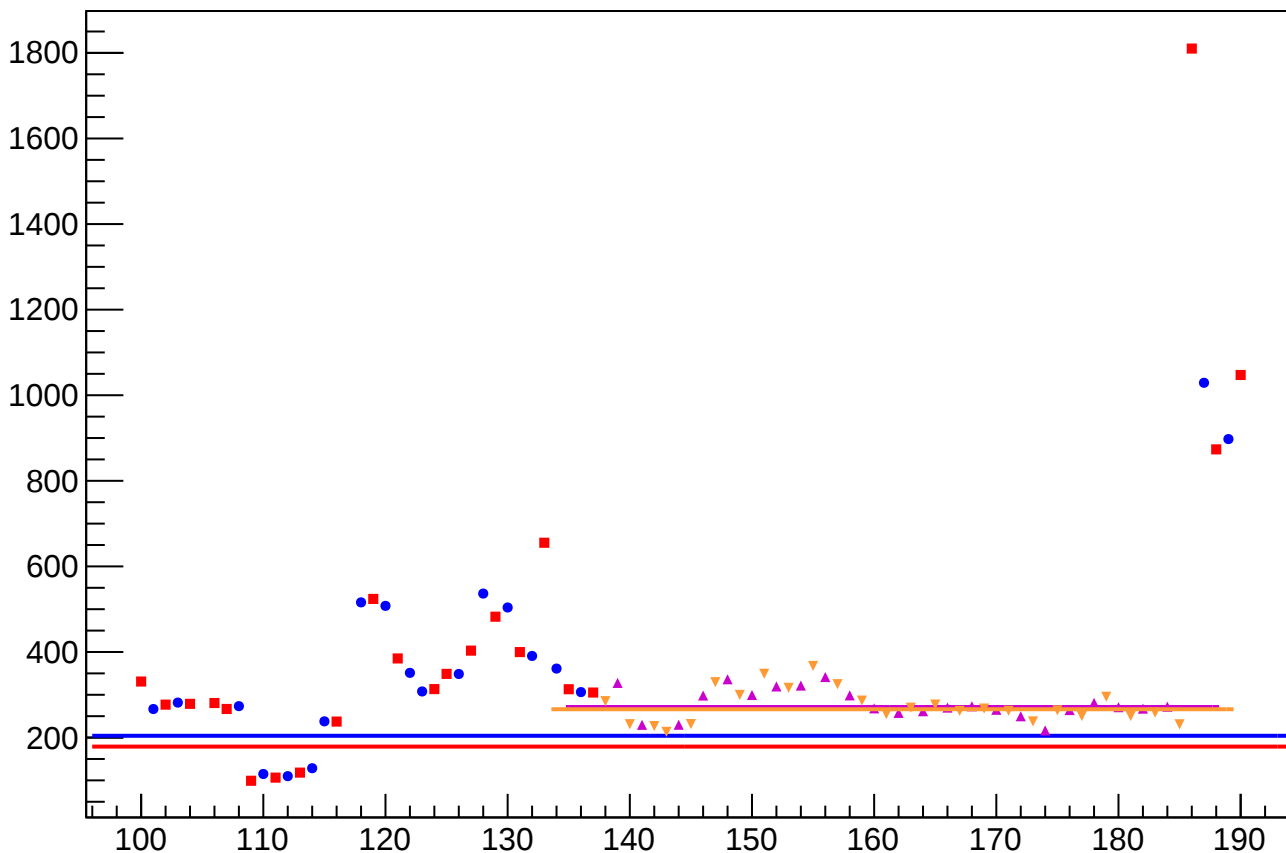
Right: -121.346 ± 58.461 χ^2/NDF : 31.1/40

In: -156.764 ± 53.056 χ^2/NDF : 48.4/41

Out: -0.591 ± 48.496 χ^2/NDF : 70.1/46

All: -71.679 ± 35.796 χ^2/NDF : 123.2/88

asym_sam8_rms vs Slug, Sign Corrected



Right In: 204.194 $\pm$ 0.064 χ^2 /NDF: 4075775.4/18

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 178.921 $\pm$ 0.054 χ^2 /NDF: 6272392.5/21

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

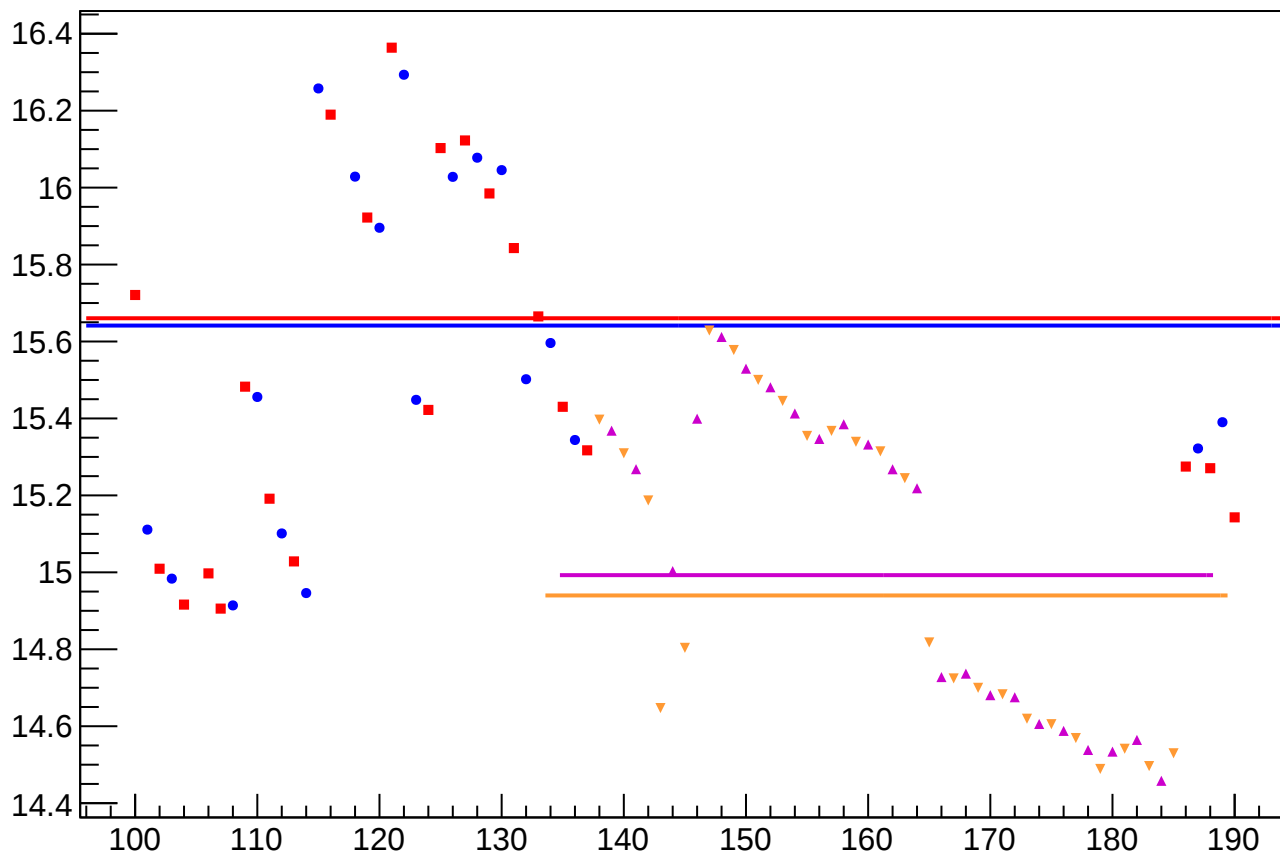
Right: 189.479 $\pm$ 0.041 χ^2 /NDF: 10439082.8/40

In: 248.286 $\pm$ 0.038 χ^2 /NDF: 5322210.8/41

Out: 231.234 $\pm$ 0.034 χ^2 /NDF: 8477850.8/46

All: 238.996 $\pm$ 0.025 χ^2 /NDF: 13912612.7/86

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.641 $\pm$ 0.000 χ^2 /NDF: 5502660170.8/18

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.660 $\pm$ 0.000 χ^2 /NDF: 5684517269.9/21

Left In: 14.993 $\pm$ 0.000 χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2 /NDF: 46444749587.5/47

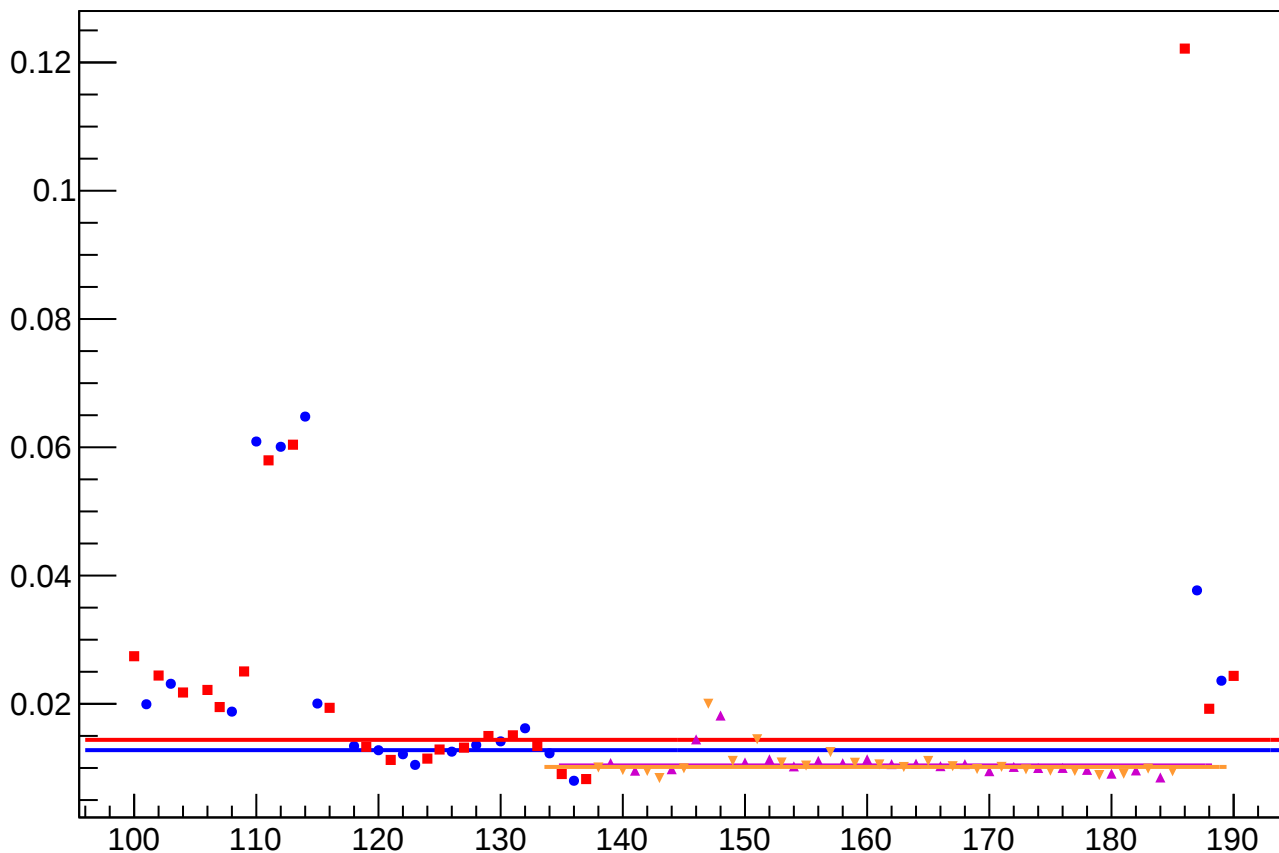
Right: 15.651 $\pm$ 0.000 χ^2 /NDF: 11193093659.5/40

In: 15.111 $\pm$ 0.000 χ^2 /NDF: 39198133793.4/41

Out: 15.055 $\pm$ 0.000 χ^2 /NDF: 43723628753.5/46

All: 15.082 $\pm$ 0.000 χ^2 /NDF: 83225437823.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2446903.2/18

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2881348.5/21

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

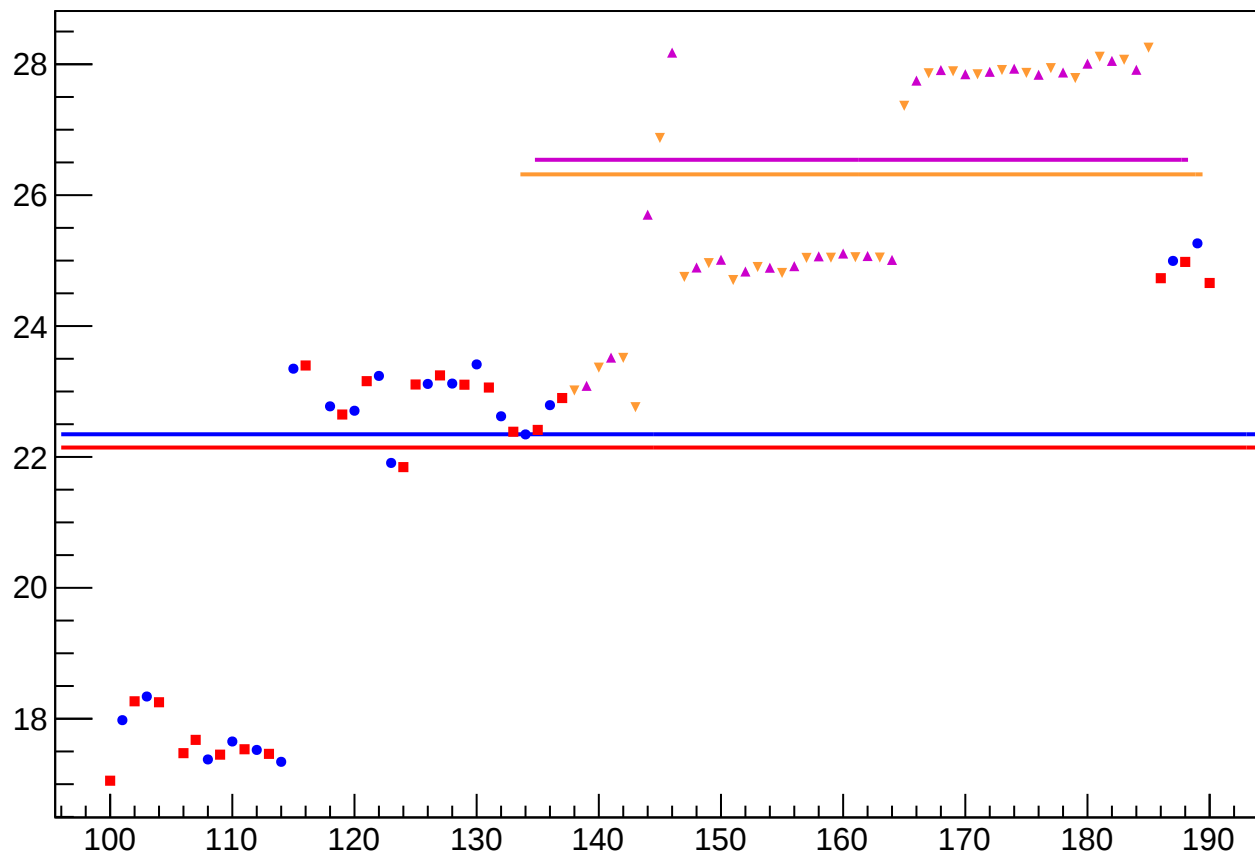
Right: 0.014+/-0.000 χ^2/NDF : 5412750.8/40

In: 0.011+/-0.000 χ^2/NDF : 3306216.0/41

Out: 0.011+/-0.000 χ^2/NDF : 4549448.7/46

All: 0.011+/-0.000 χ^2/NDF : 7855668.8/88

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.346+/-0.000 χ^2/NDF : 986133887.4/18

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 22.144+/-0.000 χ^2/NDF : 1187027153.4/21

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

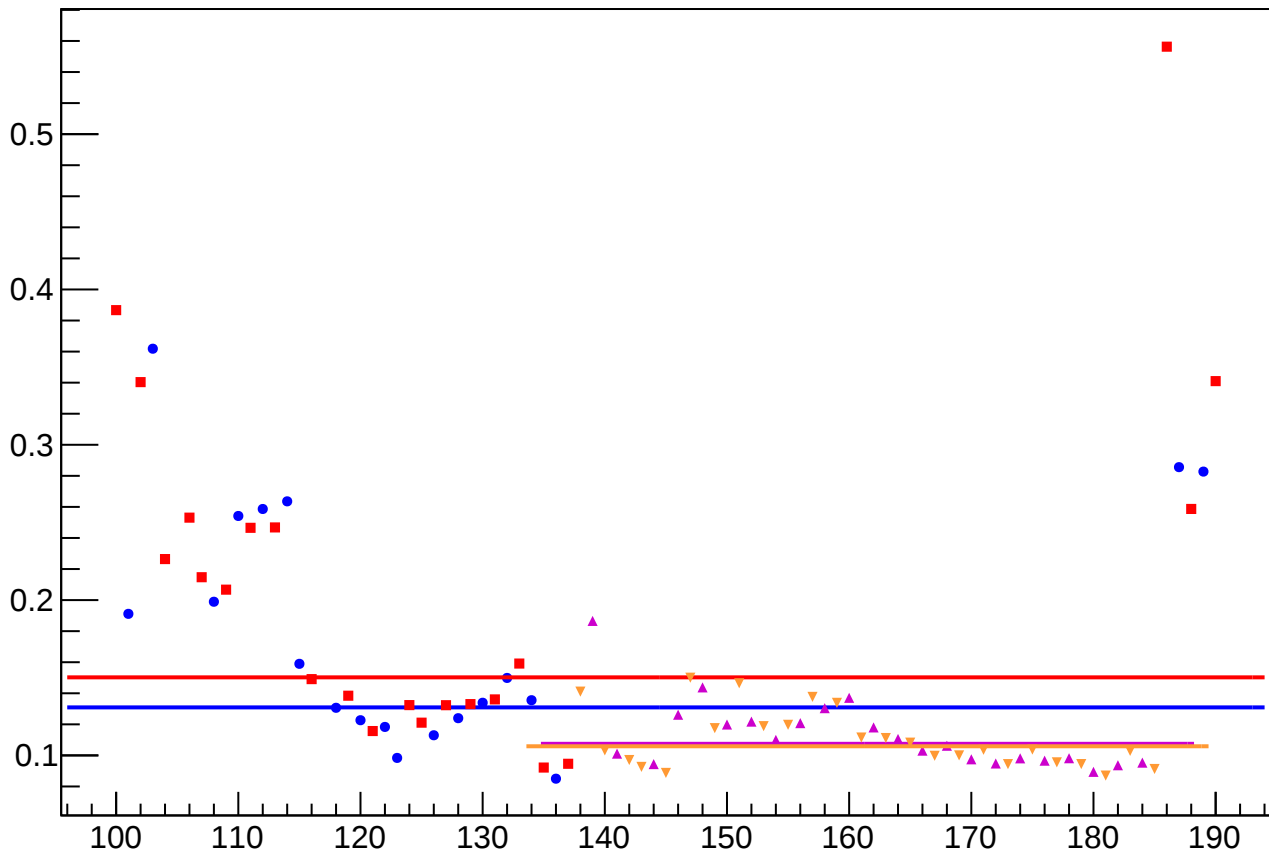
Right: 22.249+/-0.000 χ^2/NDF : 2179392170.7/40

In: 25.715+/-0.000 χ^2/NDF : 8778254601.0/41

Out: 25.603+/-0.000 χ^2/NDF : 10110129750.4/46

All: 25.658+/-0.000 χ^2/NDF : 18898842668.8

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.131+/-0.000 χ^2/NDF : 1817472.4/18

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.150+/-0.000 χ^2/NDF : 2397662.4/21

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

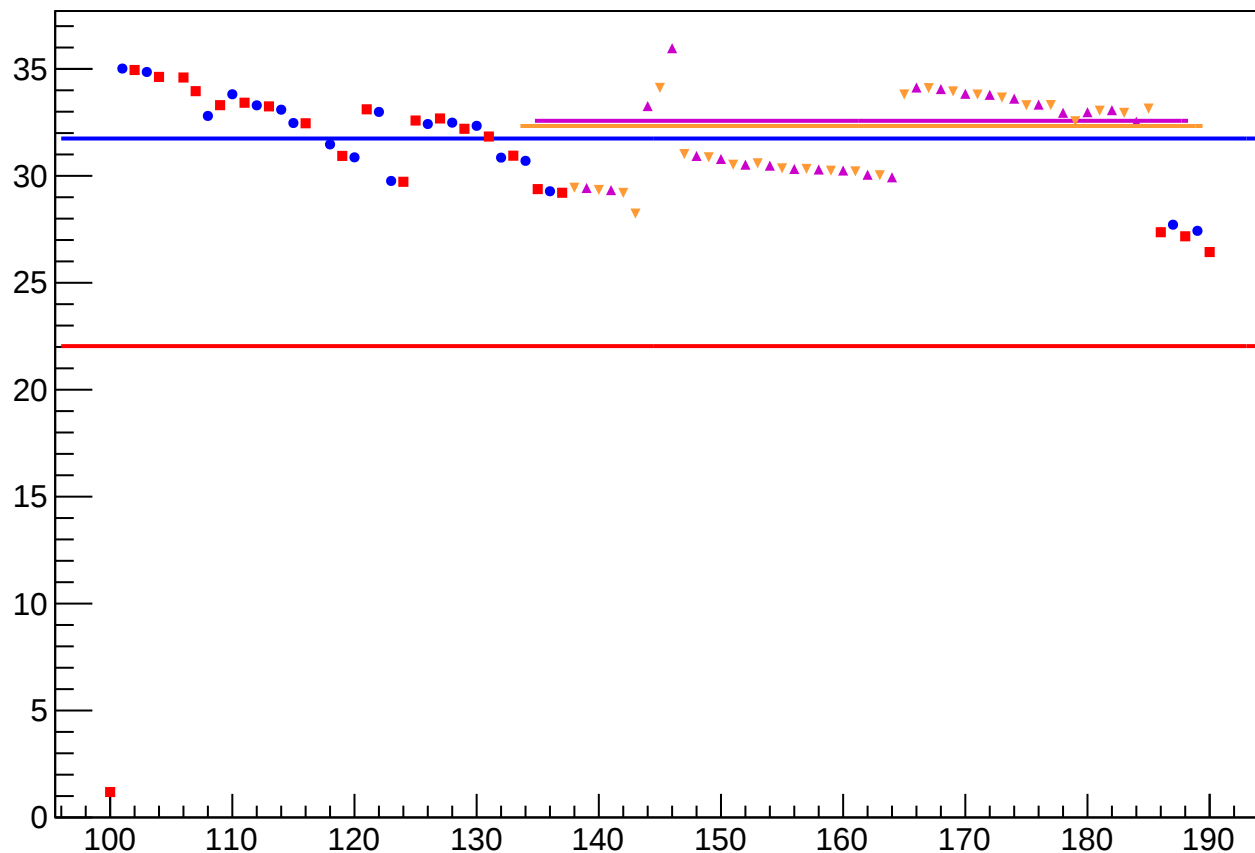
Right: 0.140+/-0.000 χ^2/NDF : 4328774.2/40

In: 0.112+/-0.000 χ^2/NDF : 2868868.7/41

Out: 0.113+/-0.000 χ^2/NDF : 4081790.0/46

All: 0.113+/-0.000 χ^2/NDF : 6953905.9/88

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.746 $\pm$ 0.000

χ^2 /NDF: 2264642334.6/18

Left: 32.450 $\pm$ 0.000

χ^2 /NDF: 24766521375.8/47

Left Out: 32.331 $\pm$ 0.000

χ^2 /NDF: 12850475096.2/24

Right: 25.913 $\pm$ 0.000

χ^2 /NDF: 274348219604.8/40

Right Out: 22.039 $\pm$ 0.000

χ^2 /NDF: 230314509214.8/21

In: 32.443 $\pm$ 0.000

χ^2 /NDF: 14488330553.5/41

Out: 30.136 $\pm$ 0.000

χ^2 /NDF: 335721780909.2/46

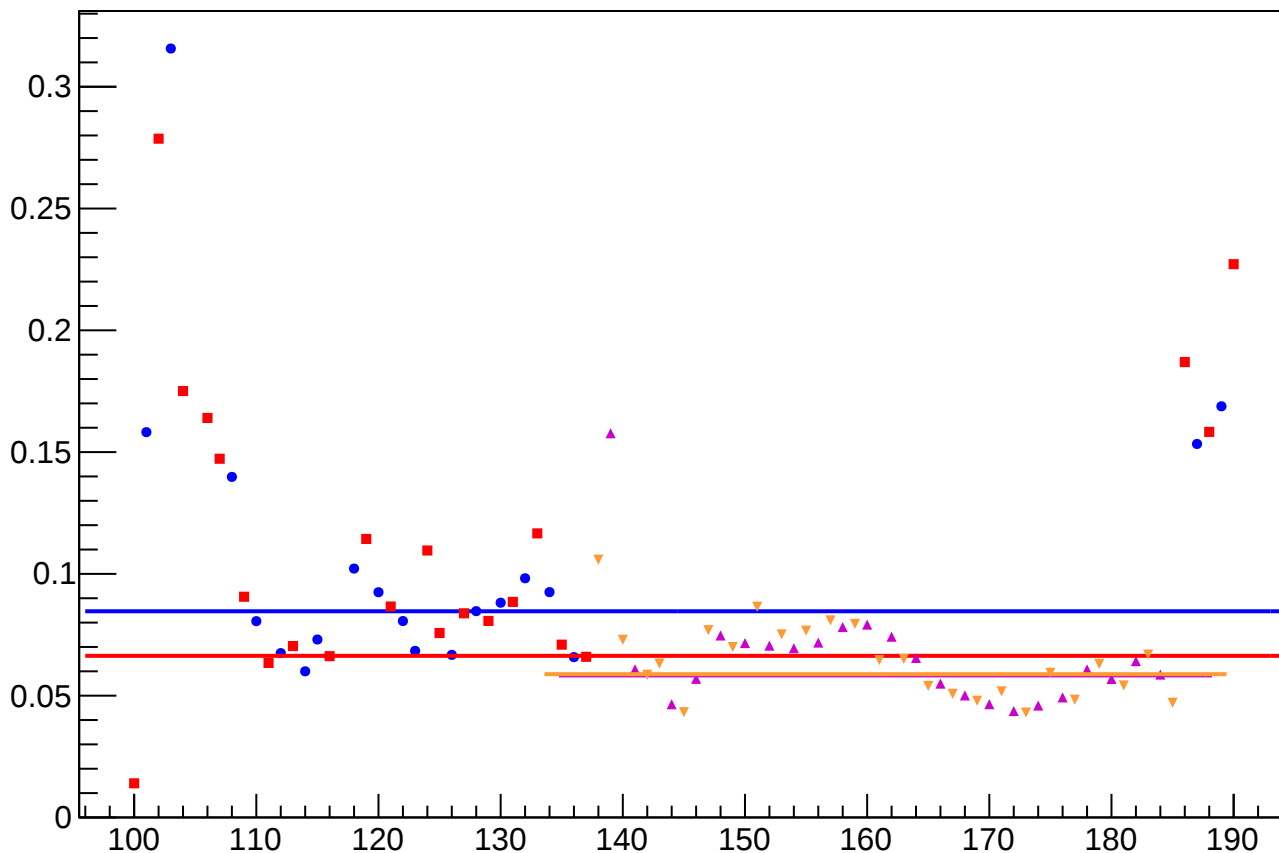
Left In: 32.574 $\pm$ 0.000

χ^2 /NDF: 11797772603.7/22

All: 31.225 $\pm$ 0.000

χ^2 /NDF: 363298435051.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.085 $\pm$ 0.000 χ^2 /NDF: 1440250.9/18

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.066 $\pm$ 0.000 χ^2 /NDF: 4867779.4/21

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

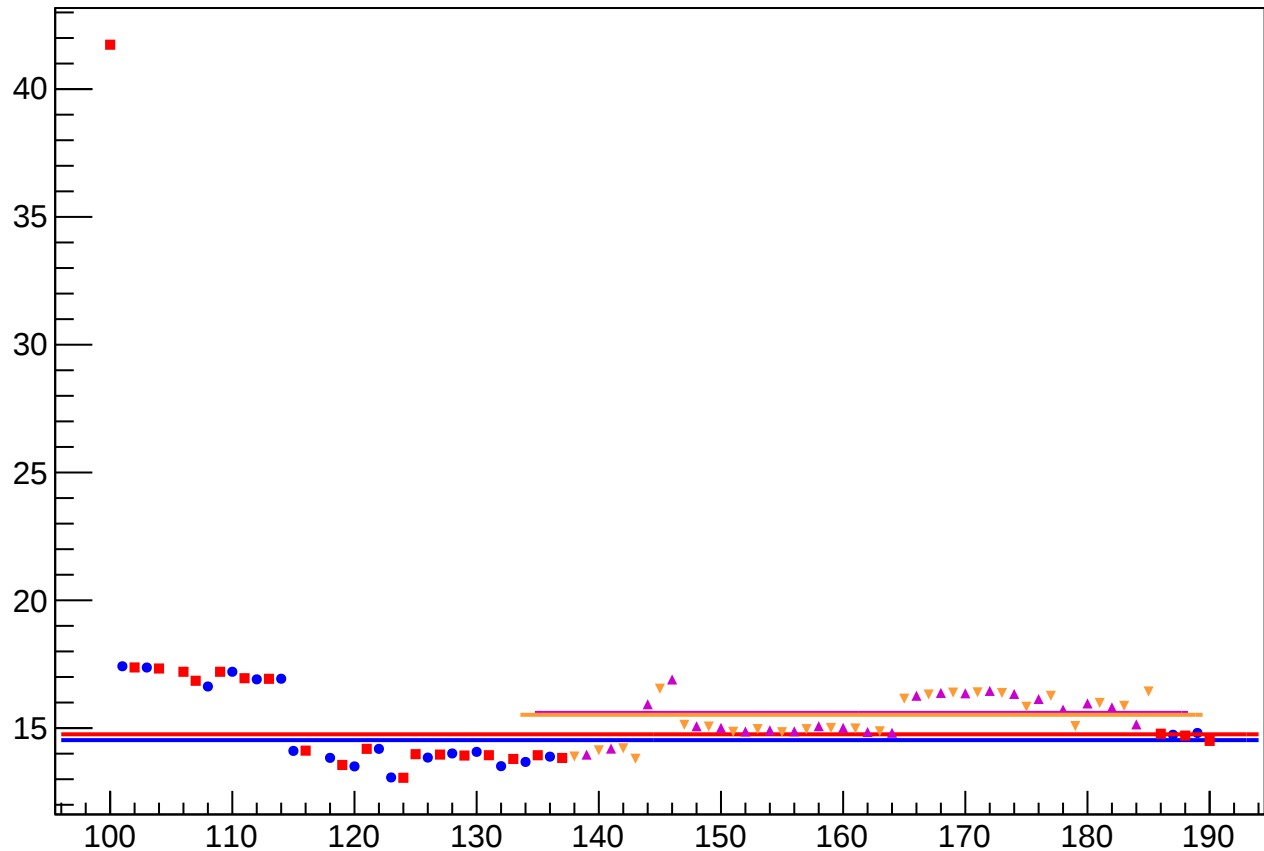
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 6604793.3/40

In: 0.062 $\pm$ 0.000 χ^2 /NDF:3827125.2/41

Out: 0.060 $\pm$ 0.000 χ^2 /NDF:6369439.1/46

All: 0.061 $\pm$ 0.000 χ^2 /NDF: 10217266.9/88

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.530+/-0.000 χ^2/NDF : 1486699613.9/18

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.757+/-0.000 χ^2/NDF : 1903682383.8/21

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

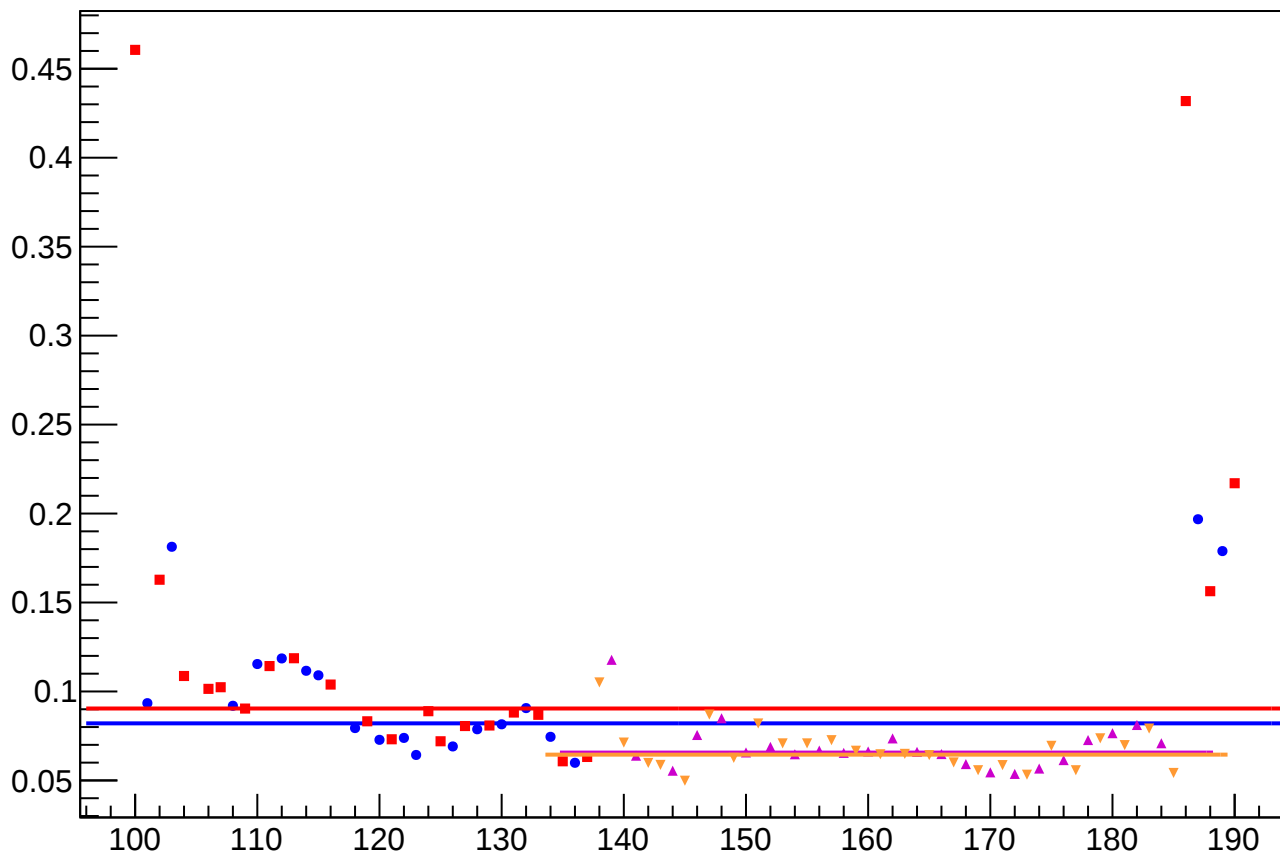
Right: 14.641+/-0.000 χ^2/NDF : 3412673622.1/40

In: 15.379+/-0.000 χ^2/NDF : 4187841088.6/41

Out: 15.381+/-0.000 χ^2/NDF : 4897269607.3/46

All: 15.380+/-0.000 χ^2/NDF : 9085116007.3/86

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.082 $\pm$ 0.000 χ^2 /NDF: 1124682.1/18

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.090 $\pm$ 0.000 χ^2 /NDF: 1768715.9/21

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

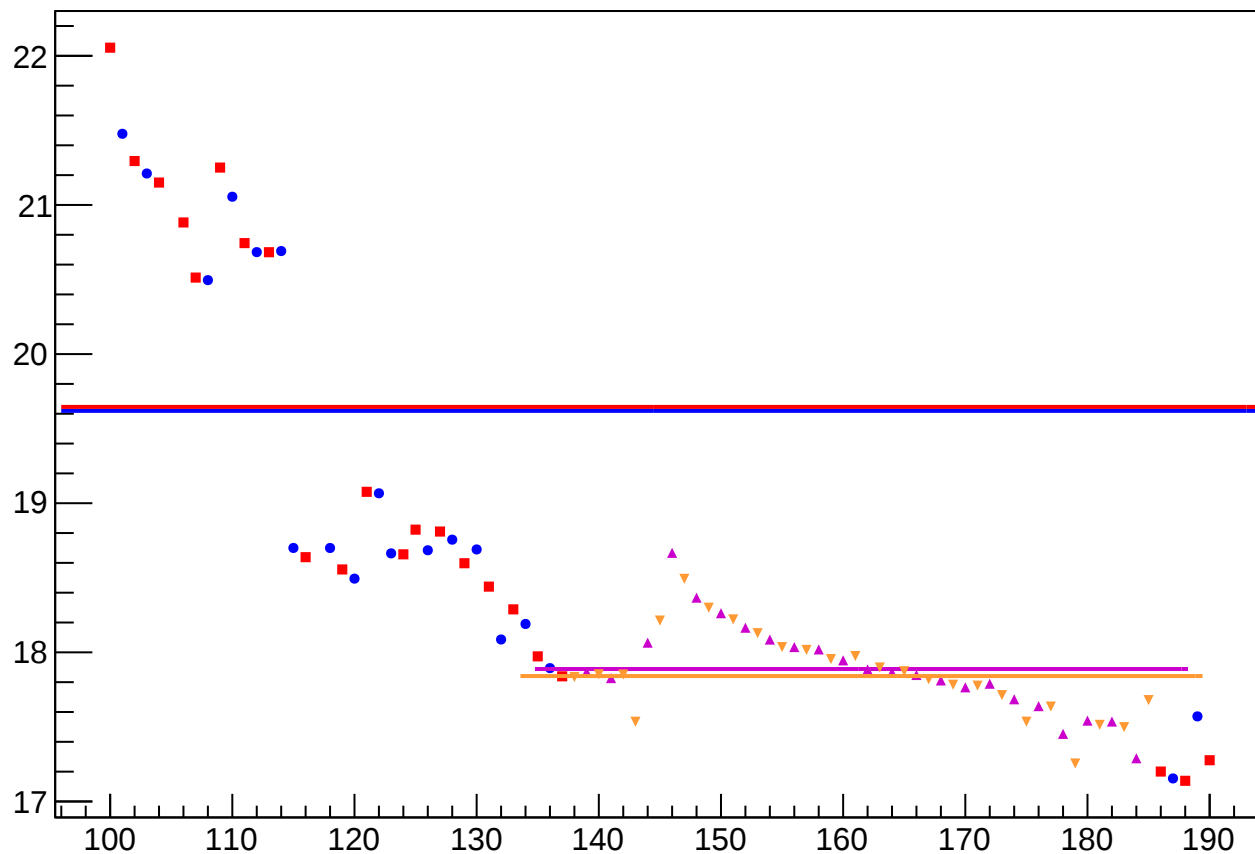
Right: 0.086 $\pm$ 0.000 χ^2 /NDF: 2953320.7/40

In: 0.069 $\pm$ 0.000 χ^2 /NDF: 2216108.4/41

Out: 0.069 $\pm$ 0.000 χ^2 /NDF: 3457543.8/46

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 5674006.5/88

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.619+/-0.000 χ^2/NDF : 13097792466.1/18

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 19.646+/-0.000 χ^2/NDF : 15142022527.0/21

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

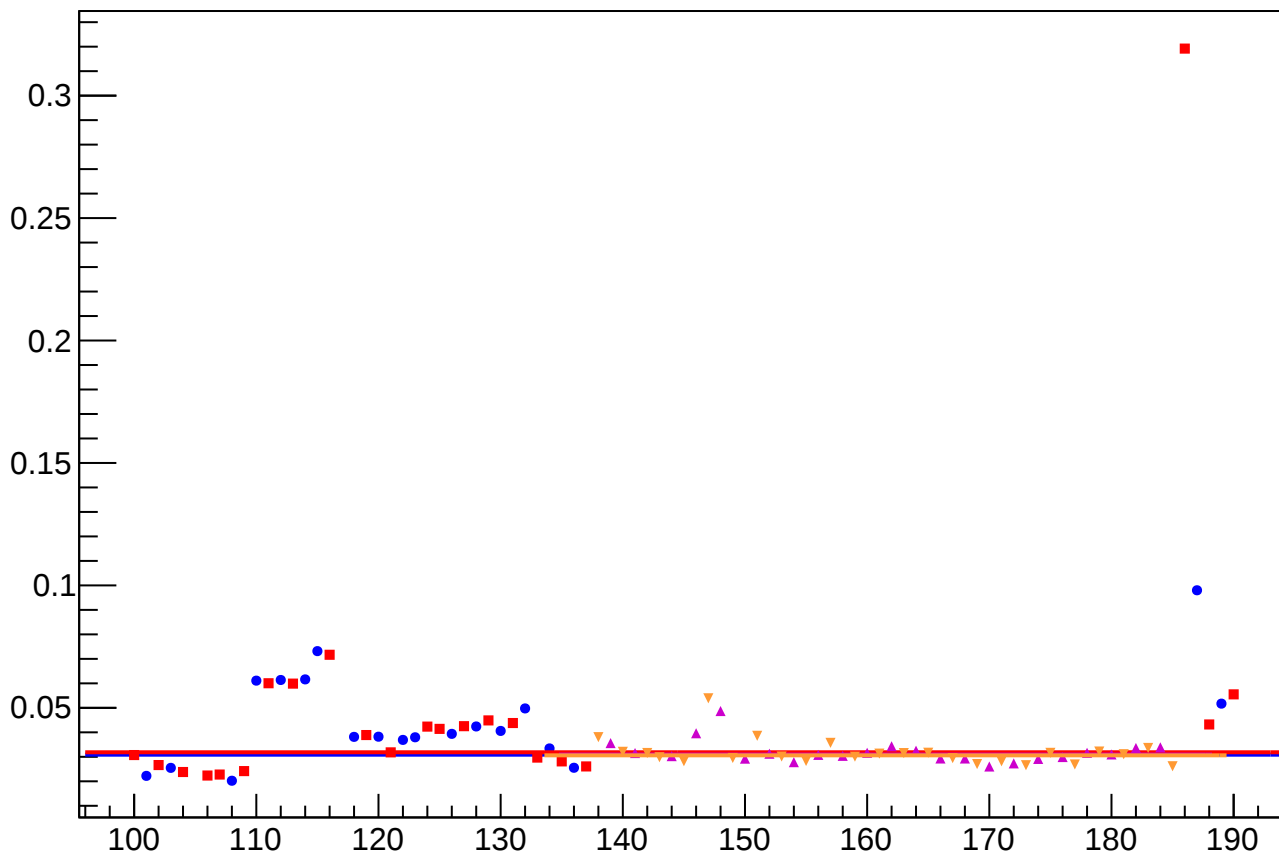
Right: 19.633+/-0.000 χ^2/NDF : 28242114698.0/40

In: 18.348+/-0.000 χ^2/NDF : 28104746450.4/41

Out: 18.327+/-0.000 χ^2/NDF : 32789670669.9/46

All: 18.337+/-0.000 χ^2/NDF : 60899343944.0

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 1587196.9/18

Left Out: 0.031+/-0.000 χ^2/NDF : 590475.6/24

Right Out: 0.032+/-0.000 χ^2/NDF : 2011152.8/21

Left In: 0.031+/-0.000 χ^2/NDF : 453524.6/22

Left: 0.031+/-0.000 χ^2/NDF : 1045553.8/47

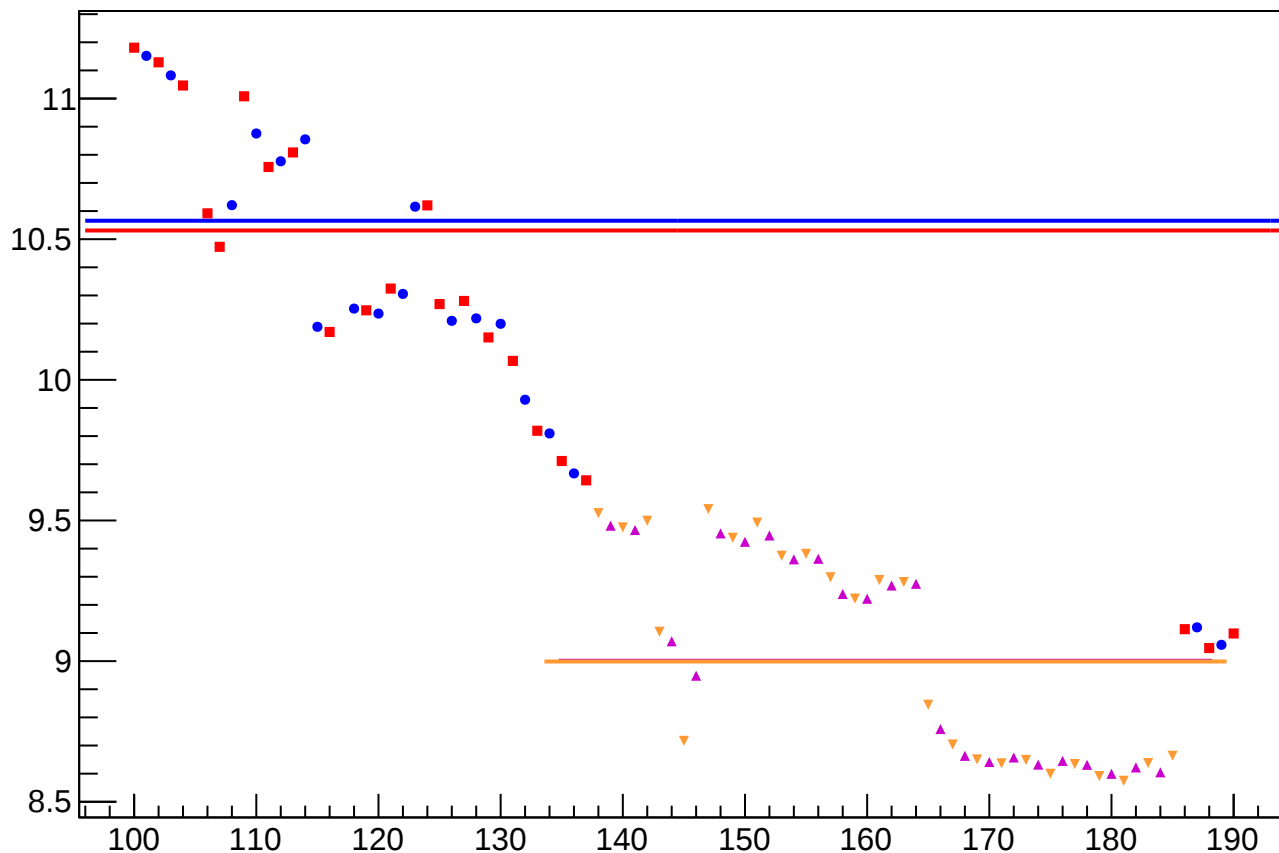
Right: 0.031+/-0.000 χ^2/NDF : 3604664.4/40

In: 0.031+/-0.000 χ^2/NDF : 2040728.0/41

Out: 0.031+/-0.000 χ^2/NDF : 2617291.3/46

All: 0.031+/-0.000 χ^2/NDF : 4658079.7/88

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.566+/-0.000 χ^2/NDF : 8137670605.9/18

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.531+/-0.000 χ^2/NDF : 7578336640.5/21

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

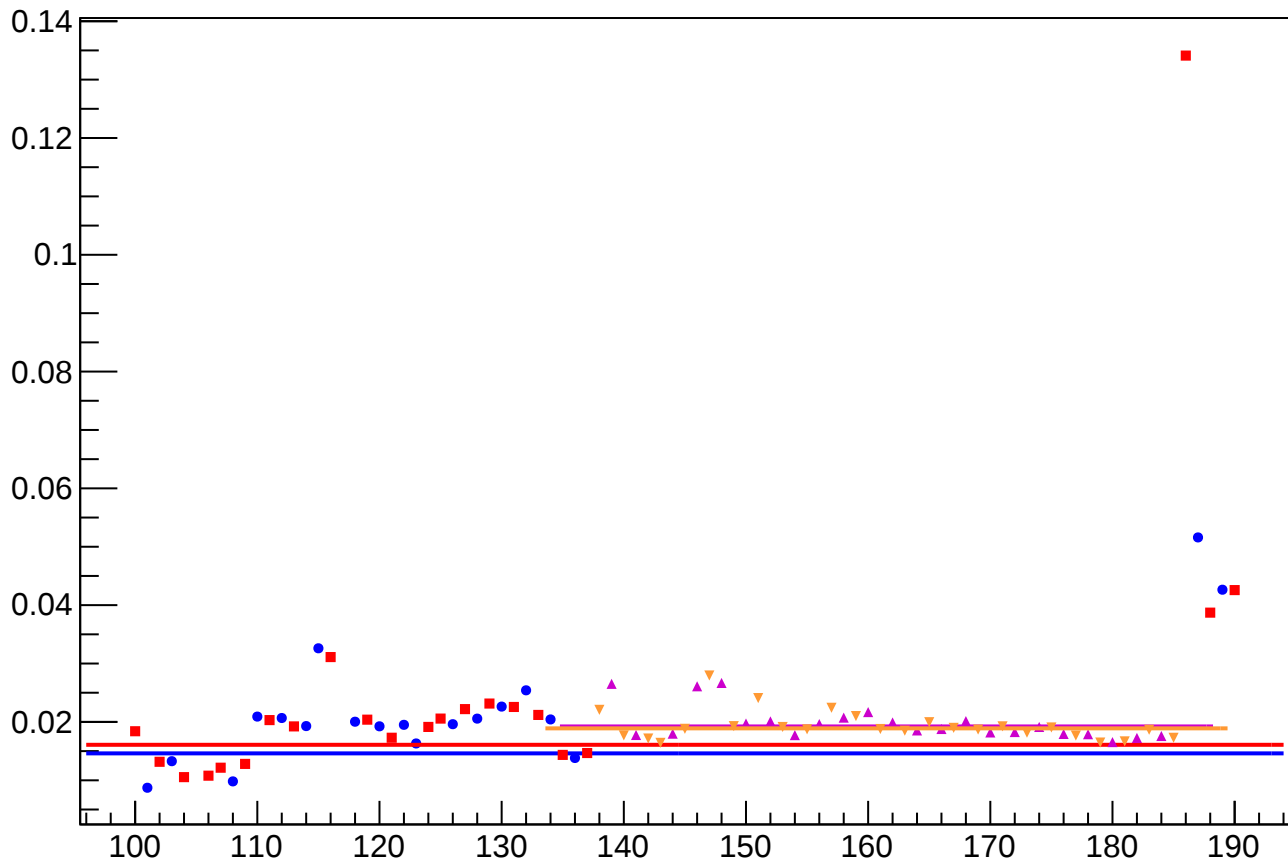
Right: 10.548+/-0.000 χ^2/NDF : 15731752022.7/40

In: 9.597+/-0.000 χ^2/NDF : 53334234803.2/41

Out: 9.545+/-0.000 χ^2/NDF : 53282505396.1/46

All: 9.570+/-0.000 χ^2/NDF : 106712485675.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1915670.0/18

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.016+/-0.000 χ^2/NDF : 2431077.5/21

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

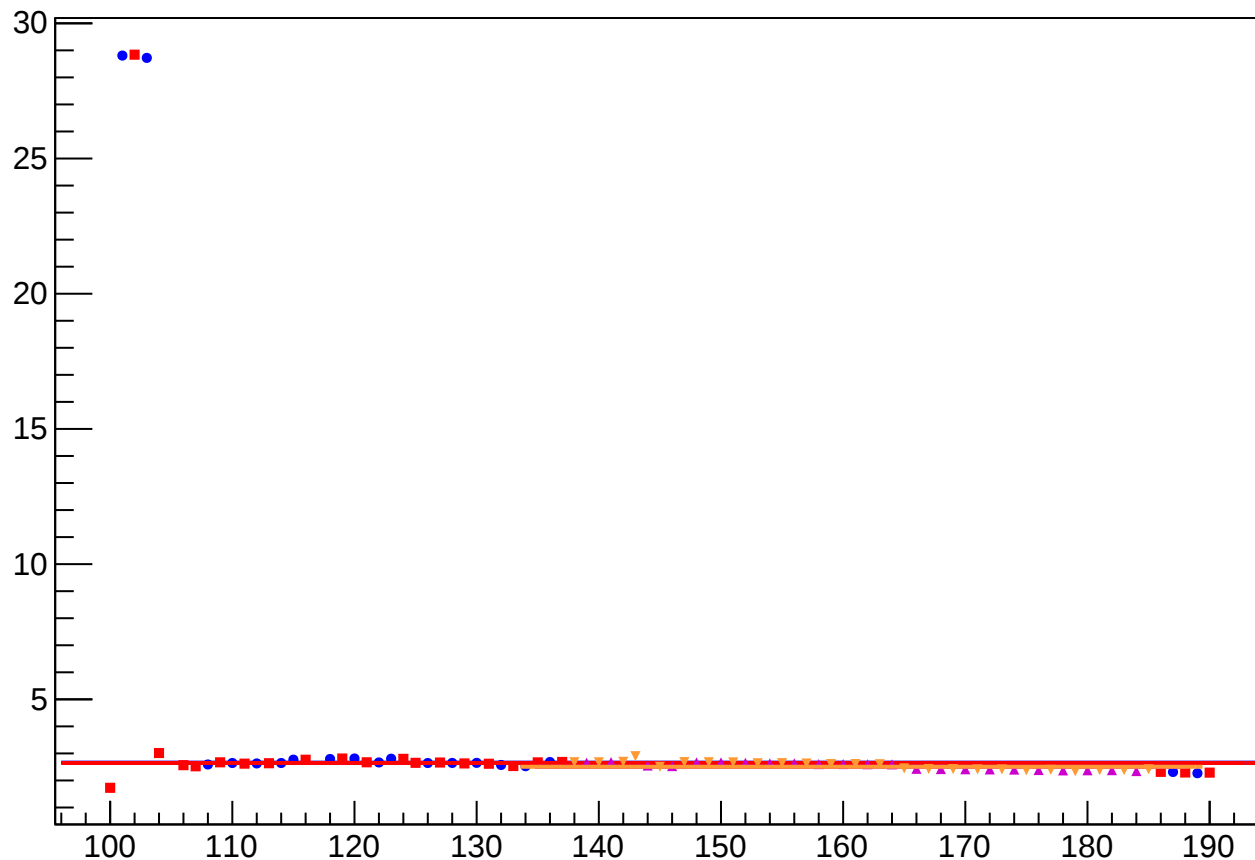
Right: 0.015+/-0.000 χ^2/NDF : 4403135.1/40

In: 0.017+/-0.000 χ^2/NDF : 3090772.5/41

Out: 0.018+/-0.000 χ^2/NDF : 3124912.1/46

All: 0.018+/-0.000 χ^2/NDF : 6228468.7/88

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.659+/-0.000 χ^2/NDF : 165912511284.9/18

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.648+/-0.000 χ^2/NDF : 77221742565.1/21

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

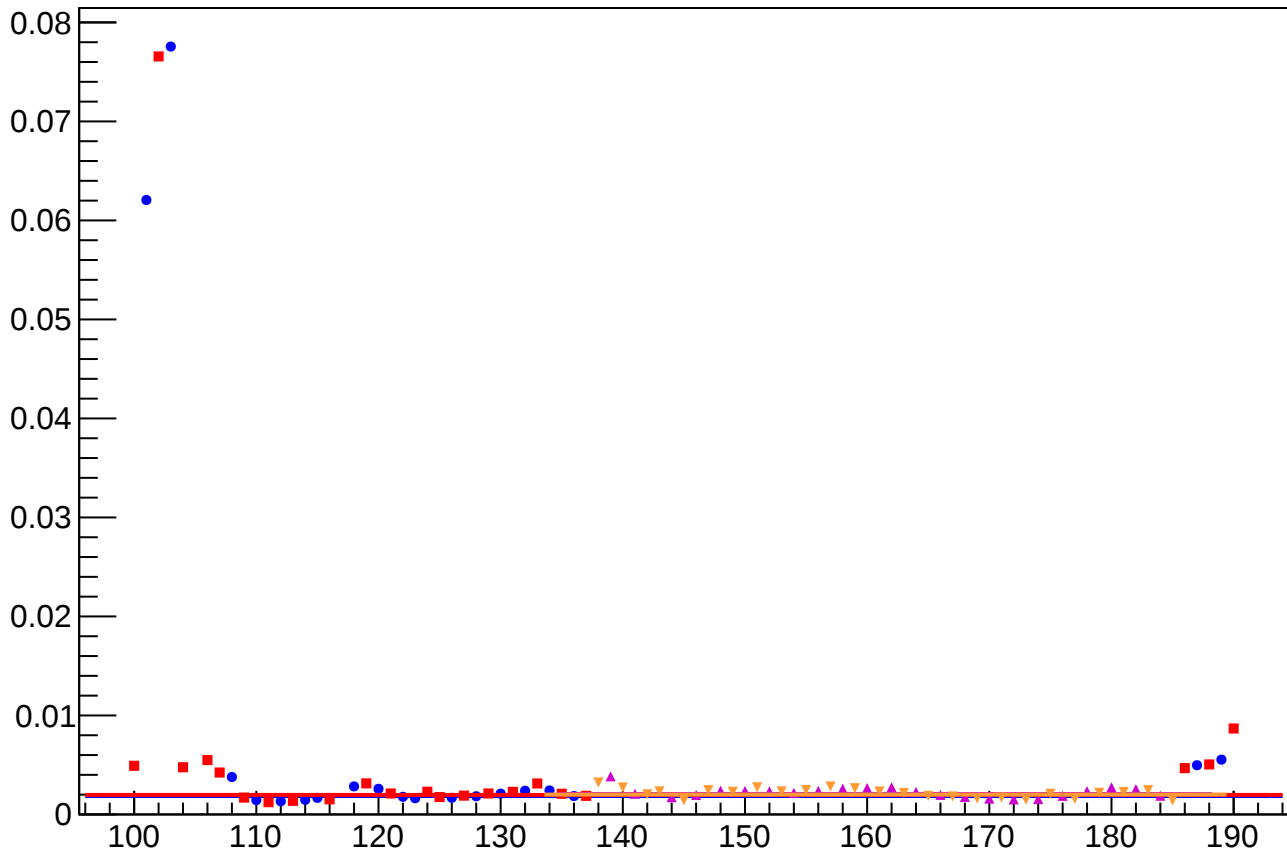
Right: 2.653+/-0.000 χ^2/NDF : 243220039243.9/40

In: 2.550+/-0.000 χ^2/NDF : 231481451893.8/41

Out: 2.547+/-0.000 χ^2/NDF : 162241584564.7/46

All: 2.548+/-0.000 χ^2/NDF : 393748000450.0

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3124003.6/18

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3641503.7/21

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

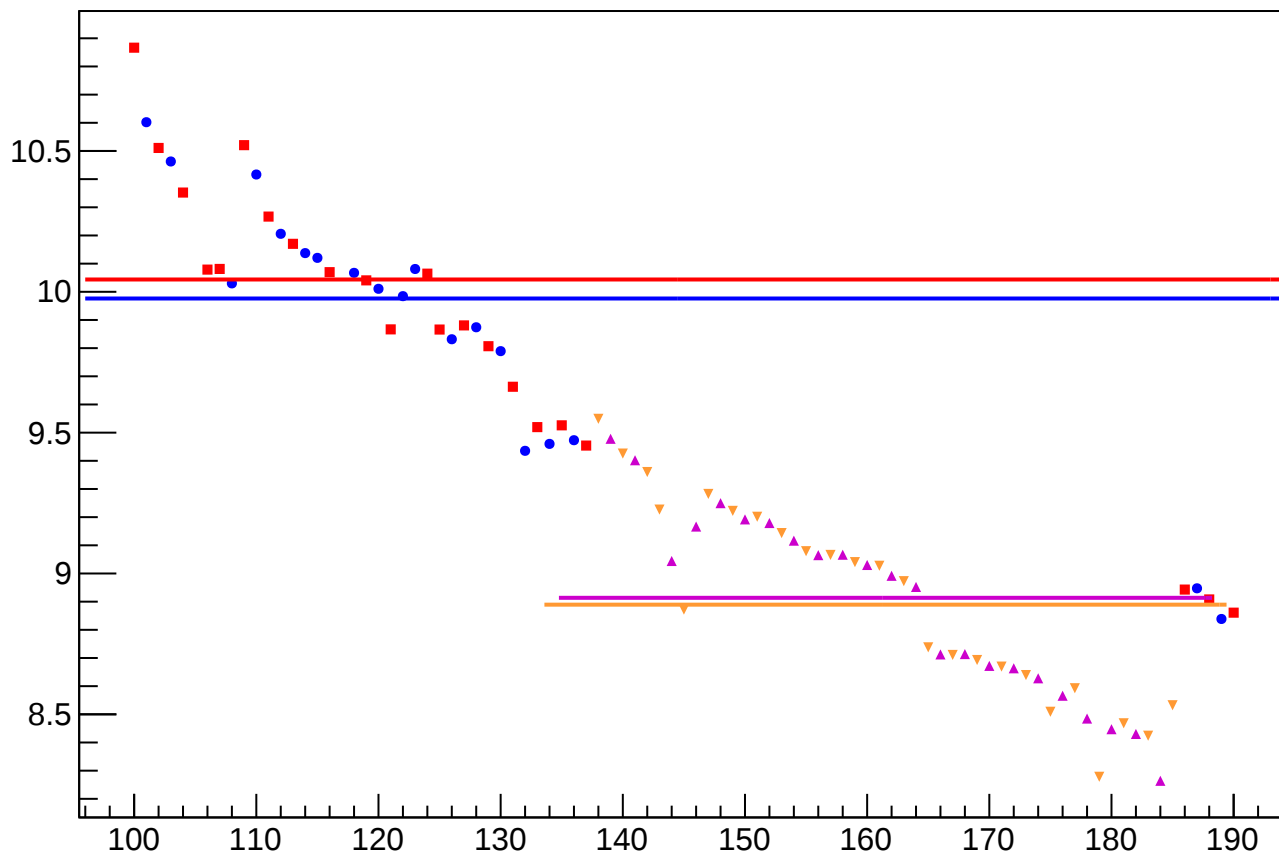
Right: 0.002+/-0.000 χ^2/NDF : 6781721.9/40

In: 0.002+/-0.000 χ^2/NDF :4499415.1/41

Out: 0.002+/-0.000 χ^2/NDF :5112979.4/46

All: 0.002+/-0.000 χ^2/NDF : 9612550.2/88

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.976+/-0.000 χ^2/NDF : 21519240033.9/18

Left Out: 8.889+/-0.000 χ^2/NDF : 34704694045.9/24

Right Out: 10.044+/-0.000 χ^2/NDF : 23170218027.0/21

Left In: 8.914+/-0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000 χ^2/NDF : 63312247922.6/47

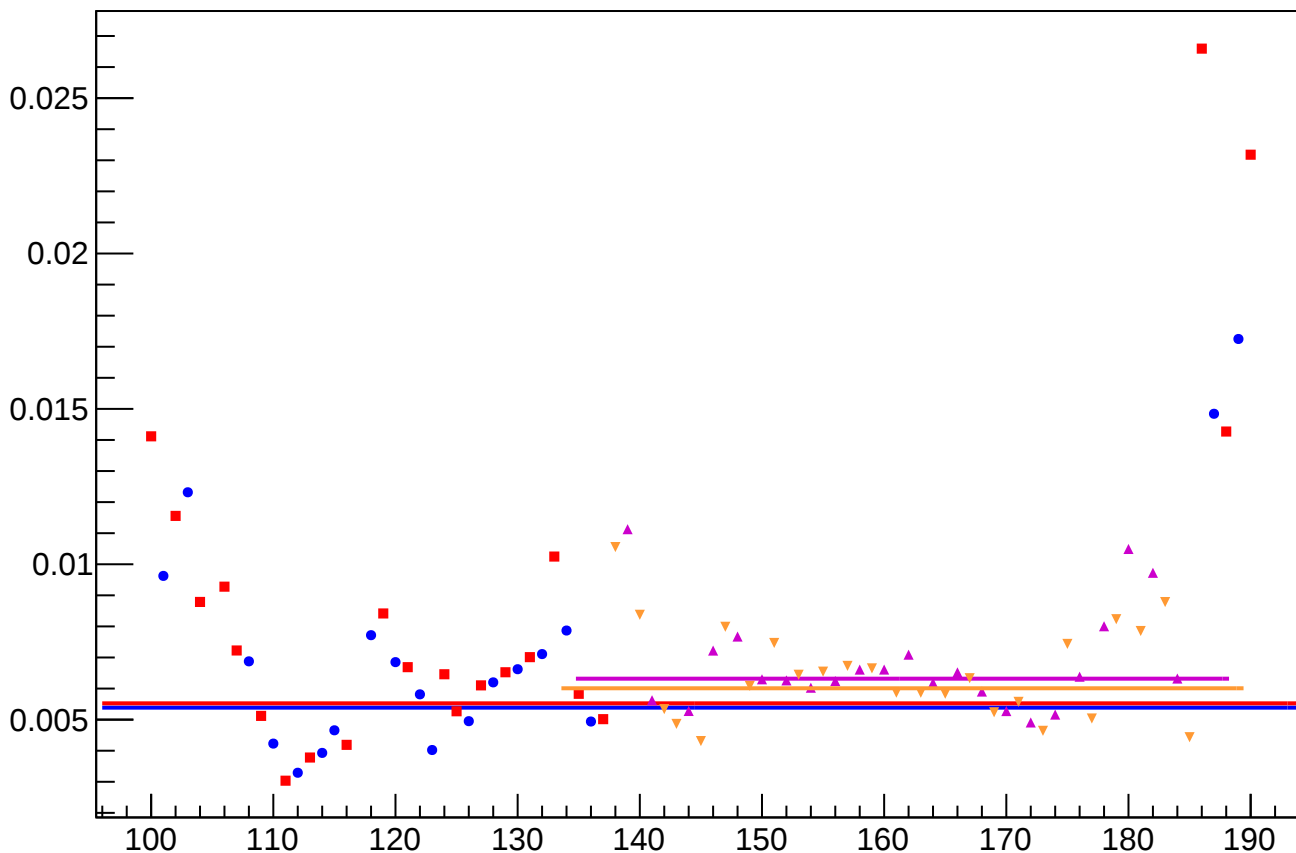
Right: 10.011+/-0.000 χ^2/NDF : 45121921255.3/40

In: 9.280+/-0.000 χ^2/NDF : 185525224853.8/41

Out: 9.269+/-0.000 χ^2/NDF : 234165754709.6/46

All: 9.274+/-0.000 χ^2/NDF : 419726966455.4

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1750993.6/18

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 3202671.6/21

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

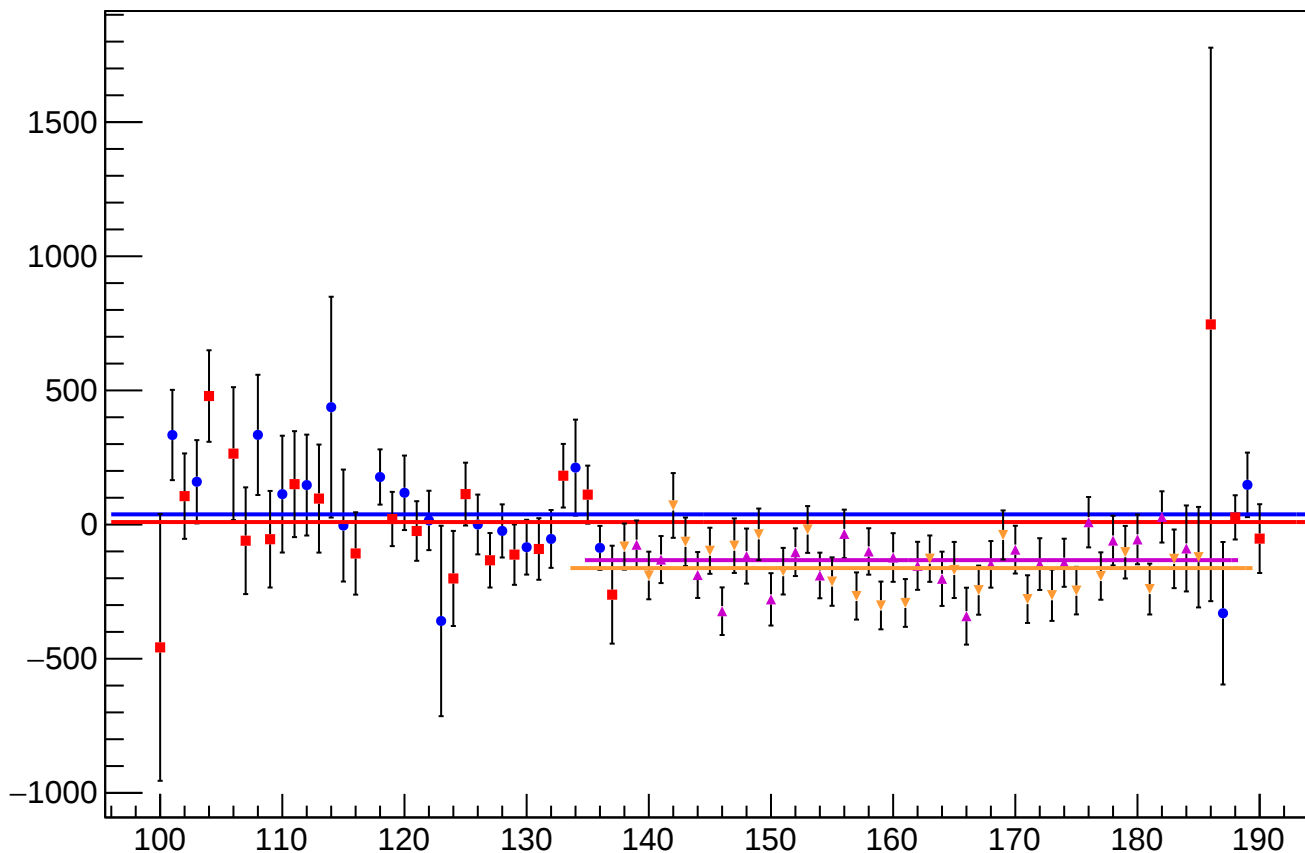
Right: 0.005+/-0.000 χ^2/NDF : 4957299.7/40

In: 0.006+/-0.000 χ^2/NDF :3046533.1/41

Out: 0.006+/-0.000 χ^2/NDF :4577345.1/46

All: 0.006+/-0.000 χ^2/NDF : 7636039.2/88

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 38.108 ± 31.017 $\chi^2/\text{NDF}: 19.1/18$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 9.414 ± 29.182 $\chi^2/\text{NDF}: 23.6/21$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

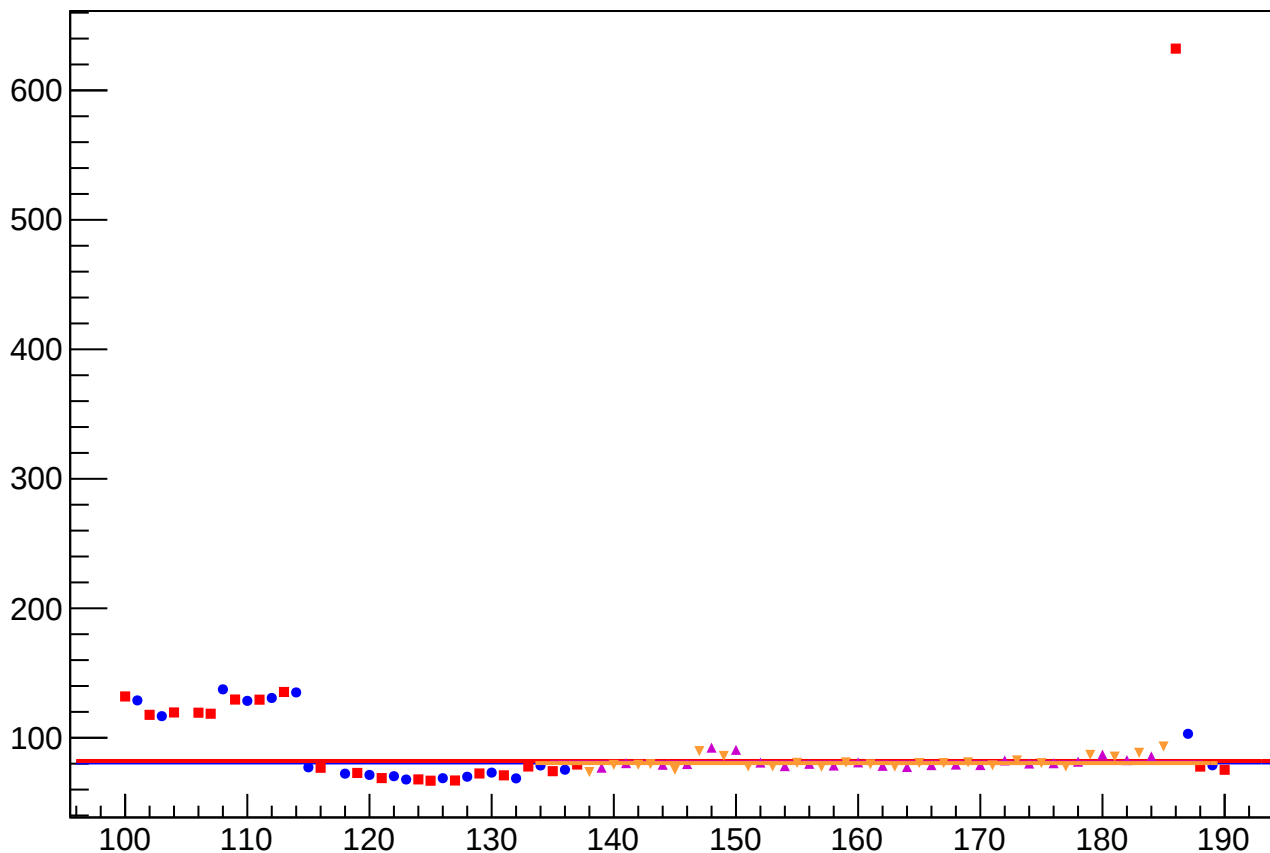
Right: 22.887 ± 21.254 $\chi^2/\text{NDF}: 43.1/40$

In: -84.555 ± 16.450 $\chi^2/\text{NDF}: 61.6/41$

Out: -112.046 ± 15.771 $\chi^2/\text{NDF}: 73.8/46$

All: -98.879 ± 11.384 $\chi^2/\text{NDF}: 136.8/88$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.950+/-0.022 χ^2/NDF : 822383.7/18

Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24

Right Out: 82.093+/-0.021 χ^2/NDF : 1489077.3/21

Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47

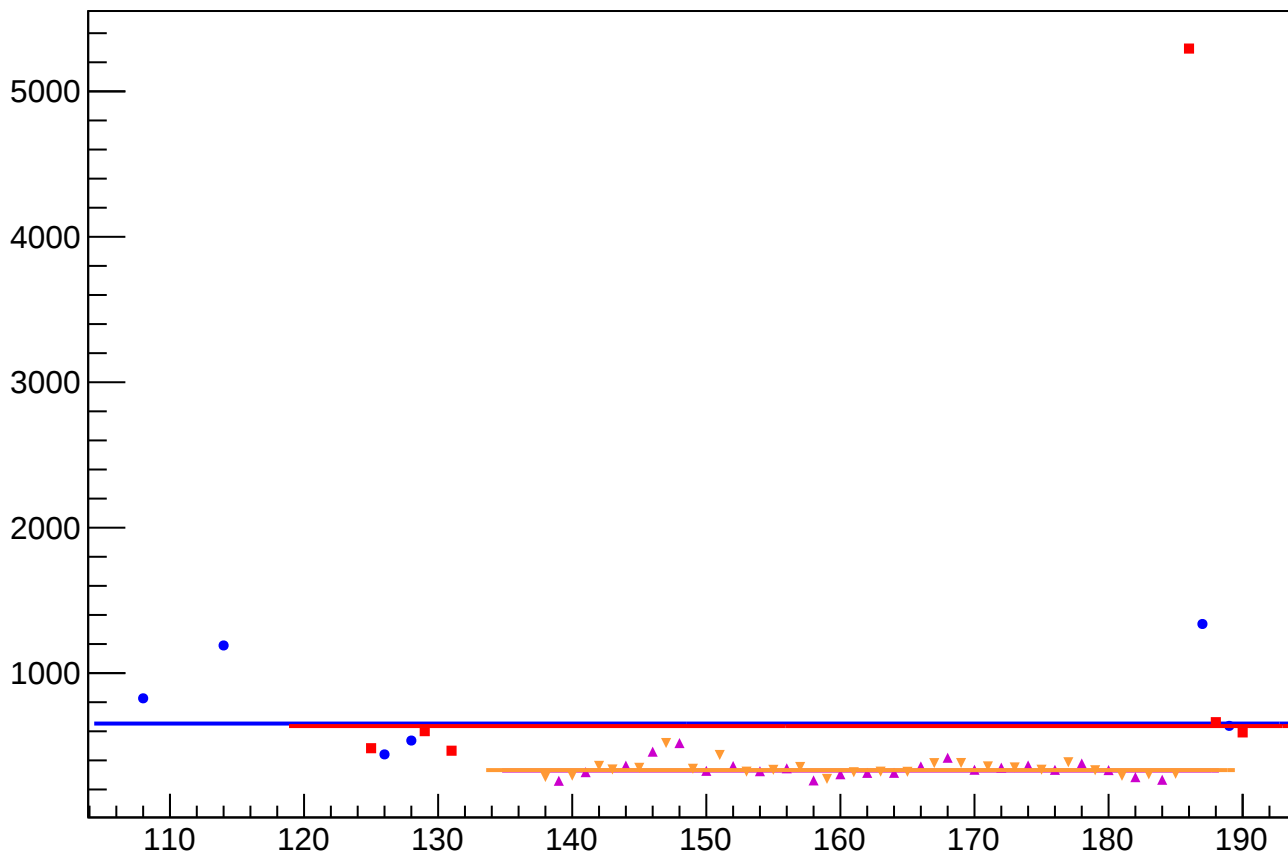
Right: 81.556+/-0.015 χ^2/NDF : 2312901.7/40

In: 80.996+/-0.012 χ^2/NDF : 894640.1/41

Out: 80.936+/-0.011 χ^2/NDF : 1583458.5/46

All: 80.965+/-0.008 χ^2/NDF : 2478112.3/88

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 653.235+/-0.554 χ^2/NDF : 130092.3/5

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 635.952+/-0.375 χ^2/NDF : 597506.0/5

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

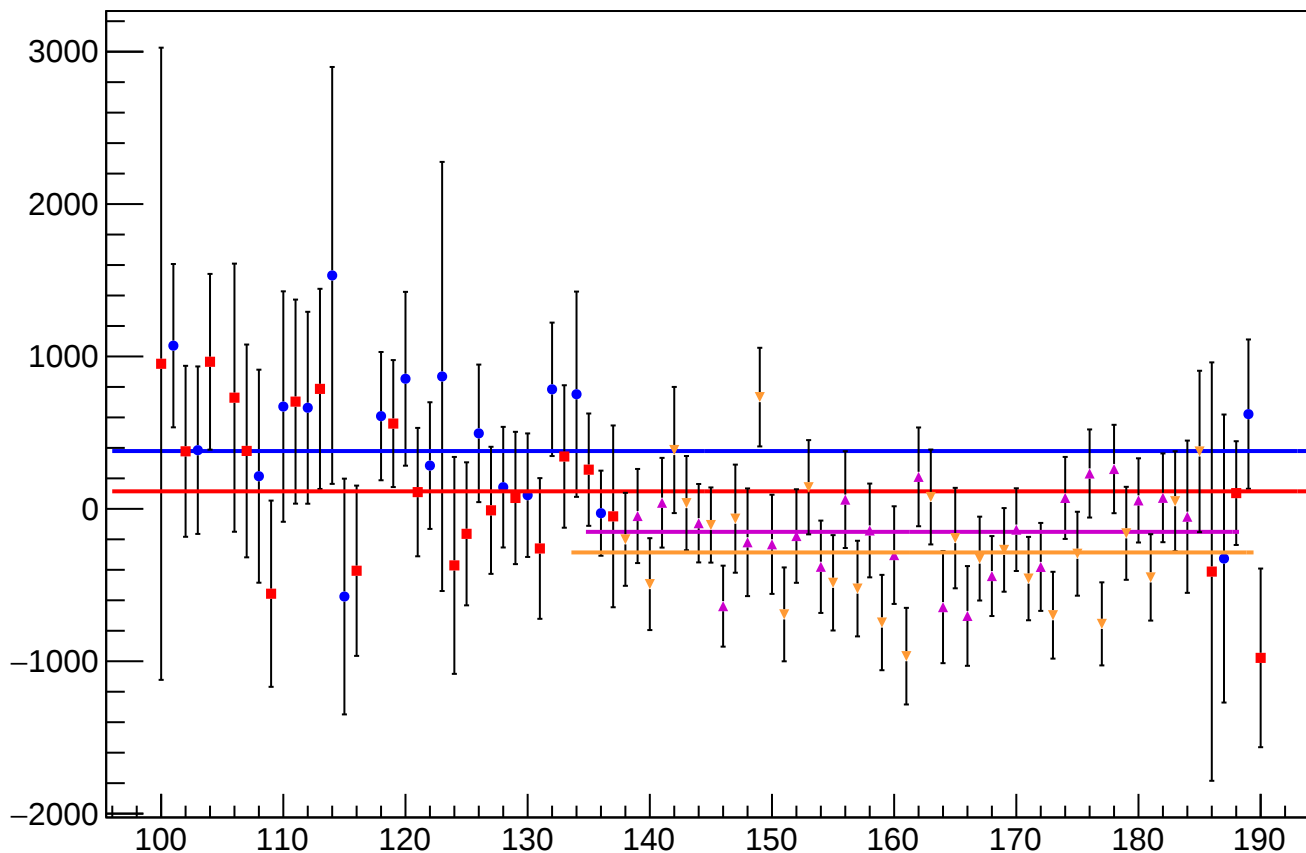
Right: 641.396+/-0.311 χ^2/NDF : 728266.2/11

In: 333.330+/-0.056 χ^2/NDF : 1263554.5/28

Out: 339.694+/-0.055 χ^2/NDF : 1826173.7/30

All: 336.596+/-0.039 χ^2/NDF : 3096283.7/59

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 379.312 $\pm$ 116.834 χ^2/NDF : 10.5/18

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 114.980 $\pm$ 111.334 χ^2/NDF : 13.9/21

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

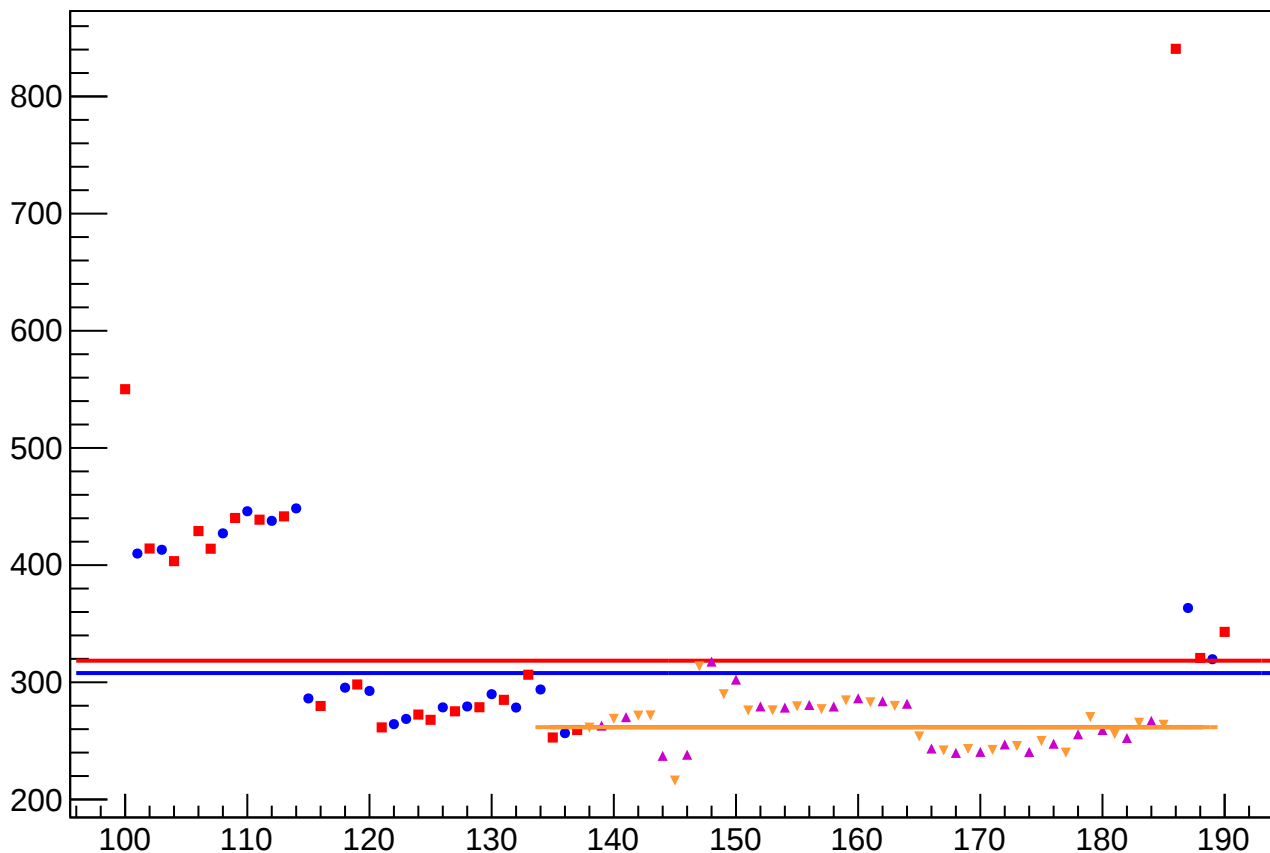
Right: 240.778 $\pm$ 80.599 χ^2/NDF : 27.1/40

In: -32.012 $\pm$ 55.328 χ^2/NDF :45.2/41

Out: -193.222 $\pm$ 53.560 χ^2/NDF :60.4/46

All: -115.233 $\pm$ 38.482 χ^2/NDF : 110.0/88

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 307.880+/-0.083 χ^2/NDF : 513528.6/18

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 318.437+/-0.079 χ^2/NDF : 918510.8/21

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

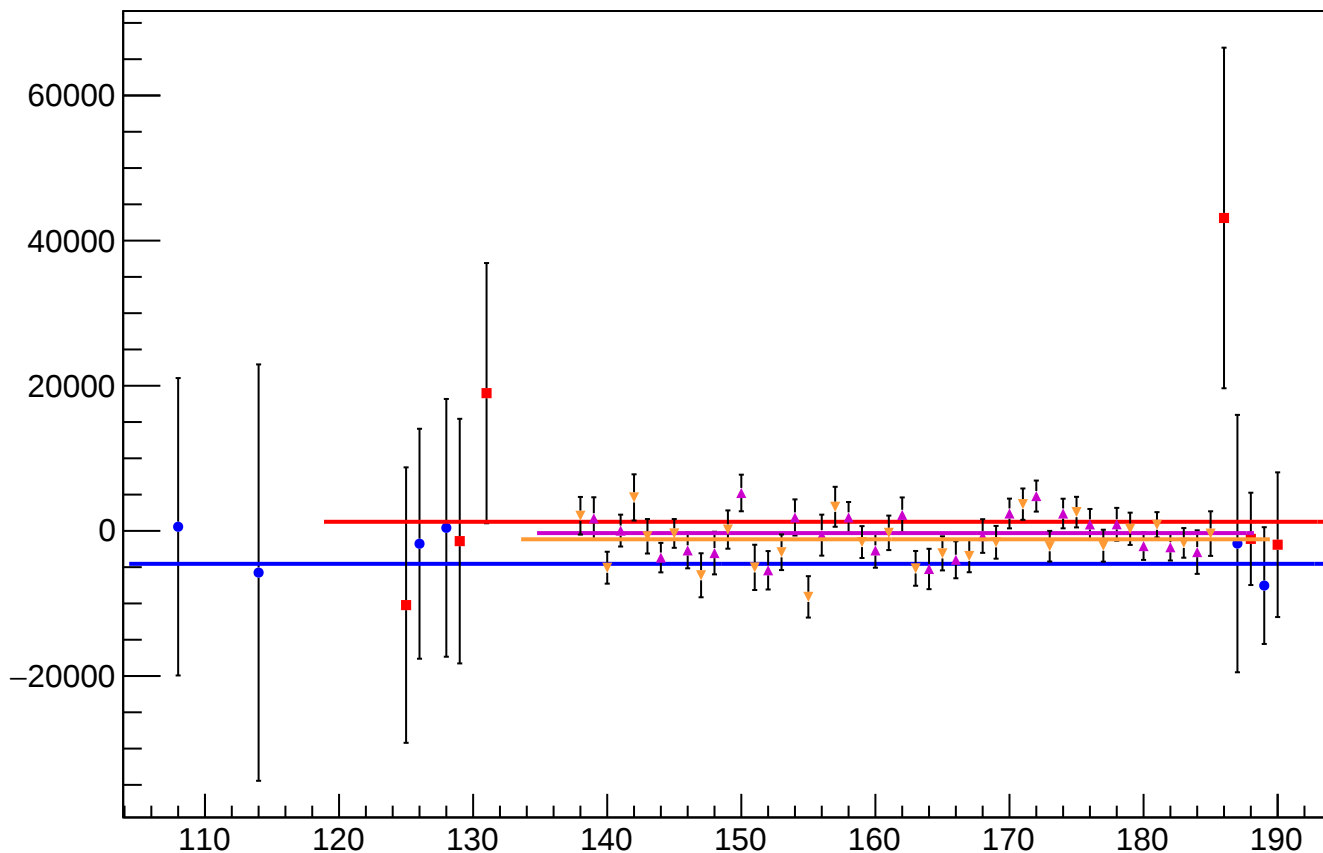
Right: 313.413+/-0.057 χ^2/NDF : 1440598.5/40

In: 272.007+/-0.039 χ^2/NDF : 984823.9/41

Out: 274.848+/-0.038 χ^2/NDF : 1550632.8/46

All: 273.473+/-0.027 χ^2/NDF : 2538178.8/88

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4539.787 $\pm$ 5834.078 χ^2 /NDF: 0.3/5

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 1253.286 $\pm$ 4662.915 χ^2 /NDF: 4.8/5

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

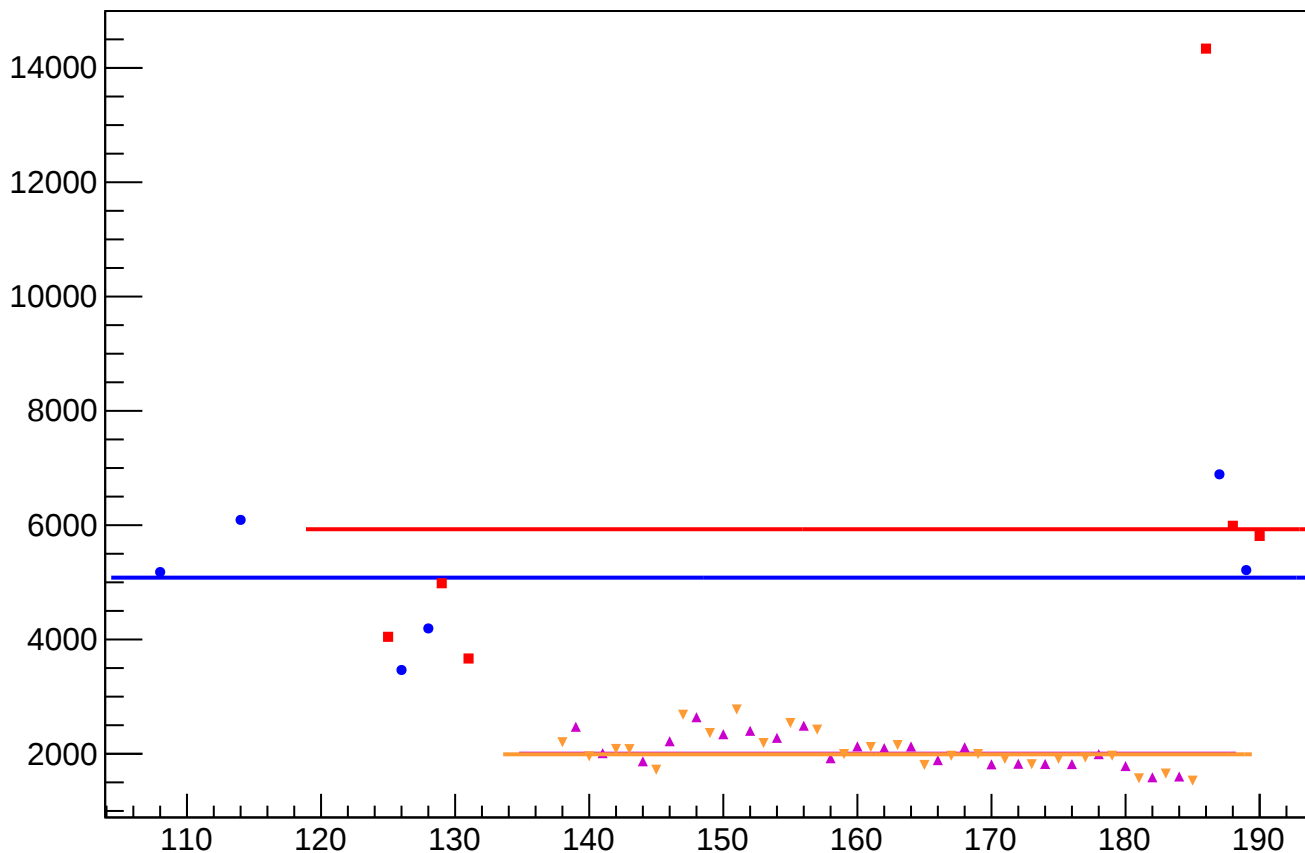
Right: -1004.856 $\pm$ 3642.449 χ^2 /NDF: 5.7/11

In: -333.291 $\pm$ 482.124 χ^2 /NDF:36.2/28

Out: -1137.255 $\pm$ 466.681 χ^2 /NDF:43.8/30

All: -748.354 $\pm$ 335.320 χ^2 /NDF: 81.5/59

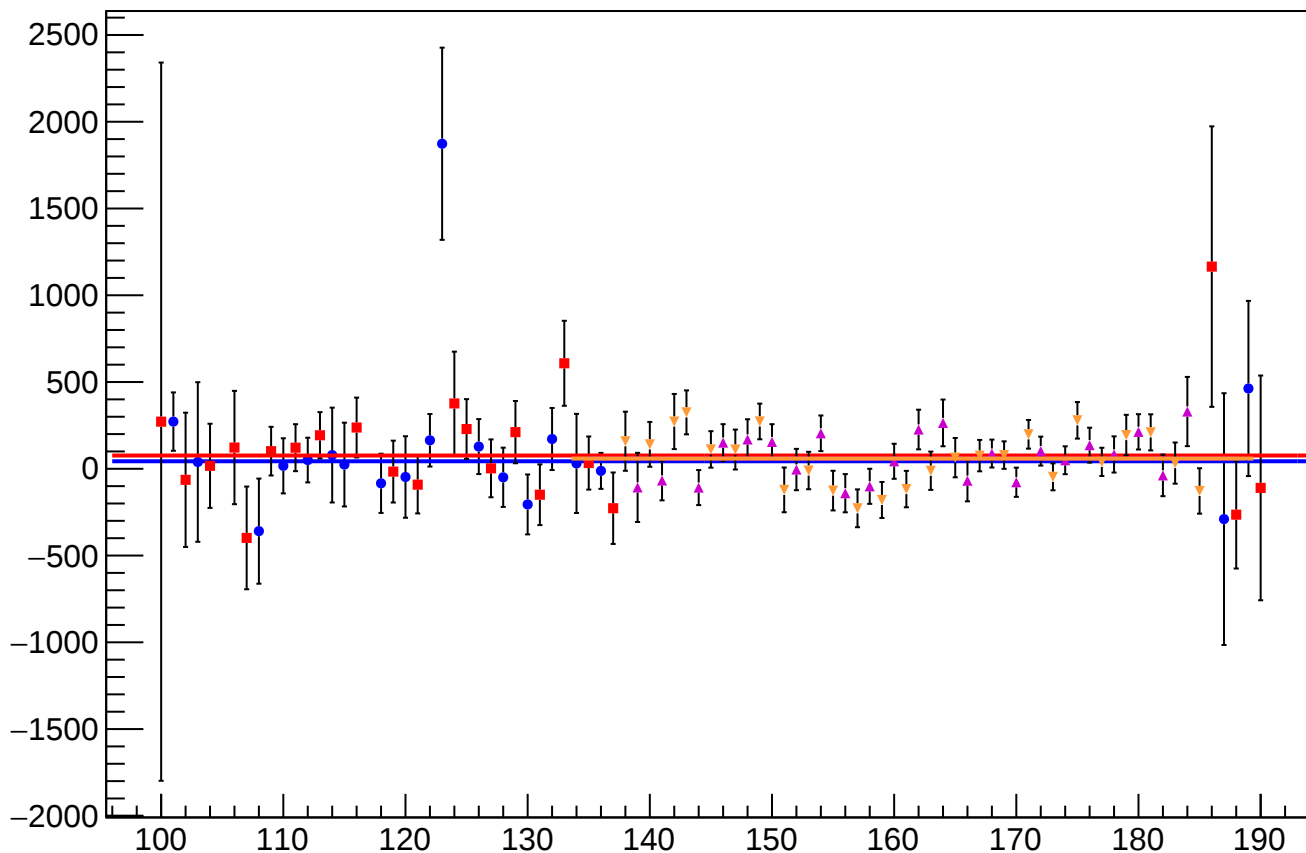
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5082.078+/-4.125 χ^2/NDF : 49639.0/5
 Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24
 Right Out: 5929.110+/-3.297 χ^2/NDF : 315016.6/5
 Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47
 Right: 5598.936+/-2.576 χ^2/NDF : 390380.7/11
 In: 2023.187+/-0.341 χ^2/NDF : 1189178.0/28
 Out: 2030.551+/-0.330 χ^2/NDF : 2453524.8/30
 All: 2026.989+/-0.237 χ^2/NDF : 3642943.6/59

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 43.372 $\pm$ 43.393 χ^2 /NDF: 20.3/18

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 76.480 $\pm$ 42.647 χ^2 /NDF: 20.2/21

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

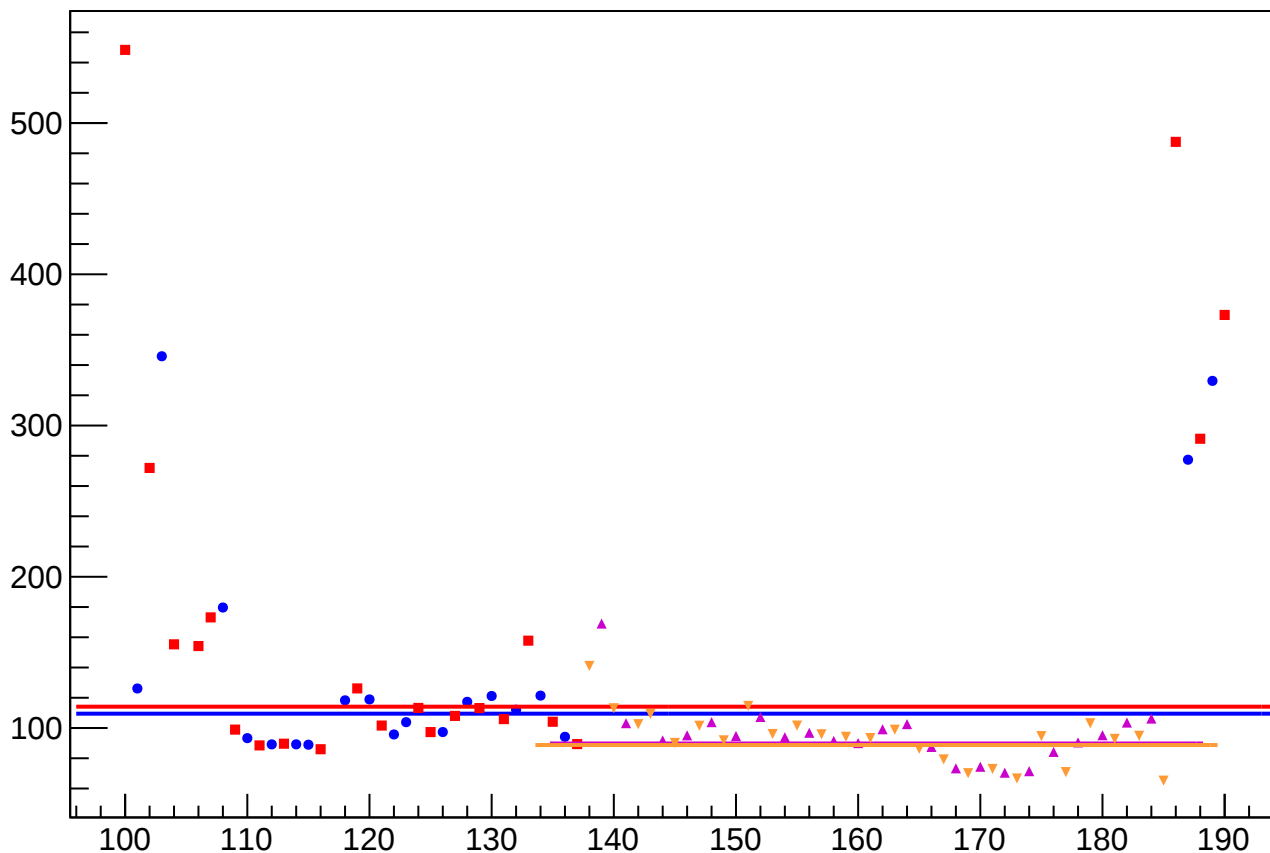
Right: 60.213 $\pm$ 30.416 χ^2 /NDF: 40.8/40

In: 56.009 $\pm$ 19.566 χ^2 /NDF:49.8/41

Out: 62.433 $\pm$ 18.939 χ^2 /NDF:67.2/46

All: 59.326 $\pm$ 13.608 χ^2 /NDF: 117.1/88

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 109.483 $\pm$ 0.031 χ^2/NDF : 1336088.9/18

Left Out: 88.748 $\pm$ 0.015 χ^2/NDF : 1079338.8/24

Right Out: 114.102 $\pm$ 0.030 χ^2/NDF : 2350445.2/21

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

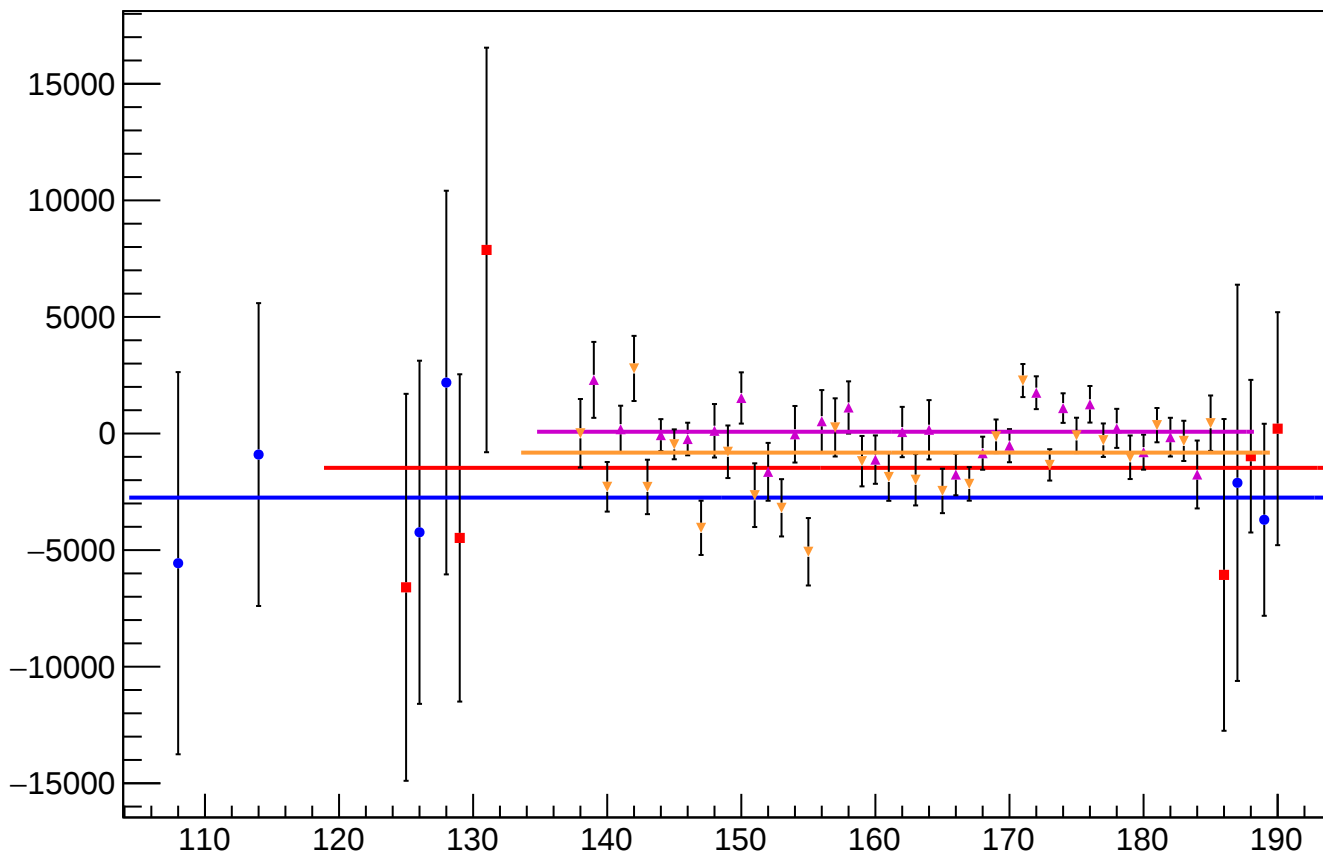
Right: 111.832 $\pm$ 0.022 χ^2/NDF : 3698060.4/40

In: 93.775 $\pm$ 0.014 χ^2/NDF : 2550891.9/41

Out: 93.748 $\pm$ 0.013 χ^2/NDF : 3997248.1/46

All: 93.761 $\pm$ 0.010 χ^2/NDF : 6548142.0/88

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2748.005 $\pm$ 2629.321 χ^2 /NDF: 0.7/5

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: -1471.818 $\pm$ 2214.604 χ^2 /NDF: 2.3/5

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

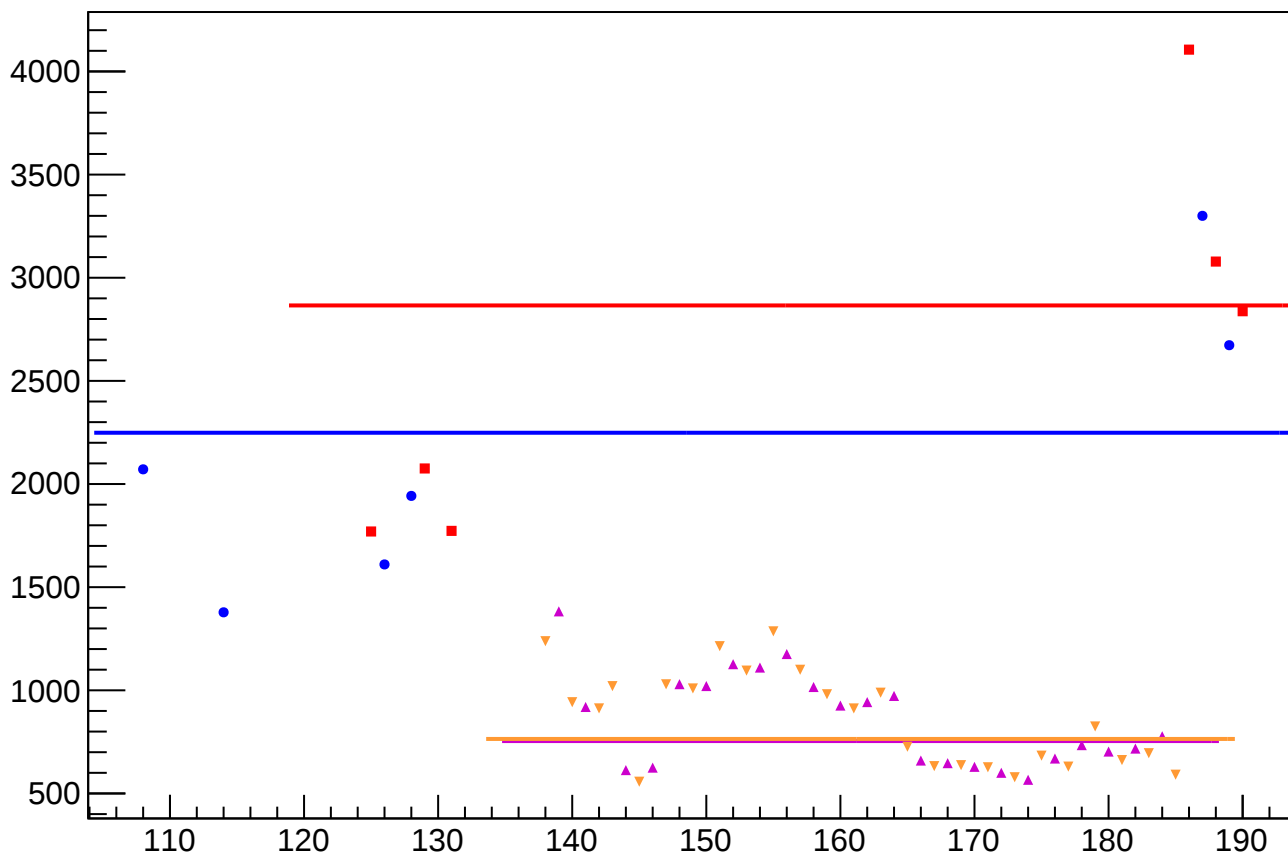
Right: -2001.444 $\pm$ 1693.836 χ^2 /NDF: 3.1/11

In: 62.043 $\pm$ 186.182 χ^2 /NDF:30.1/28

Out: -823.375 $\pm$ 183.827 χ^2 /NDF:70.6/30

All: -386.301 $\pm$ 130.810 χ^2 /NDF: 112.2/59

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2248.591+/-1.859 χ^2/NDF : 106546.6/5

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2865.712+/-1.566 χ^2/NDF : 169268.7/5

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

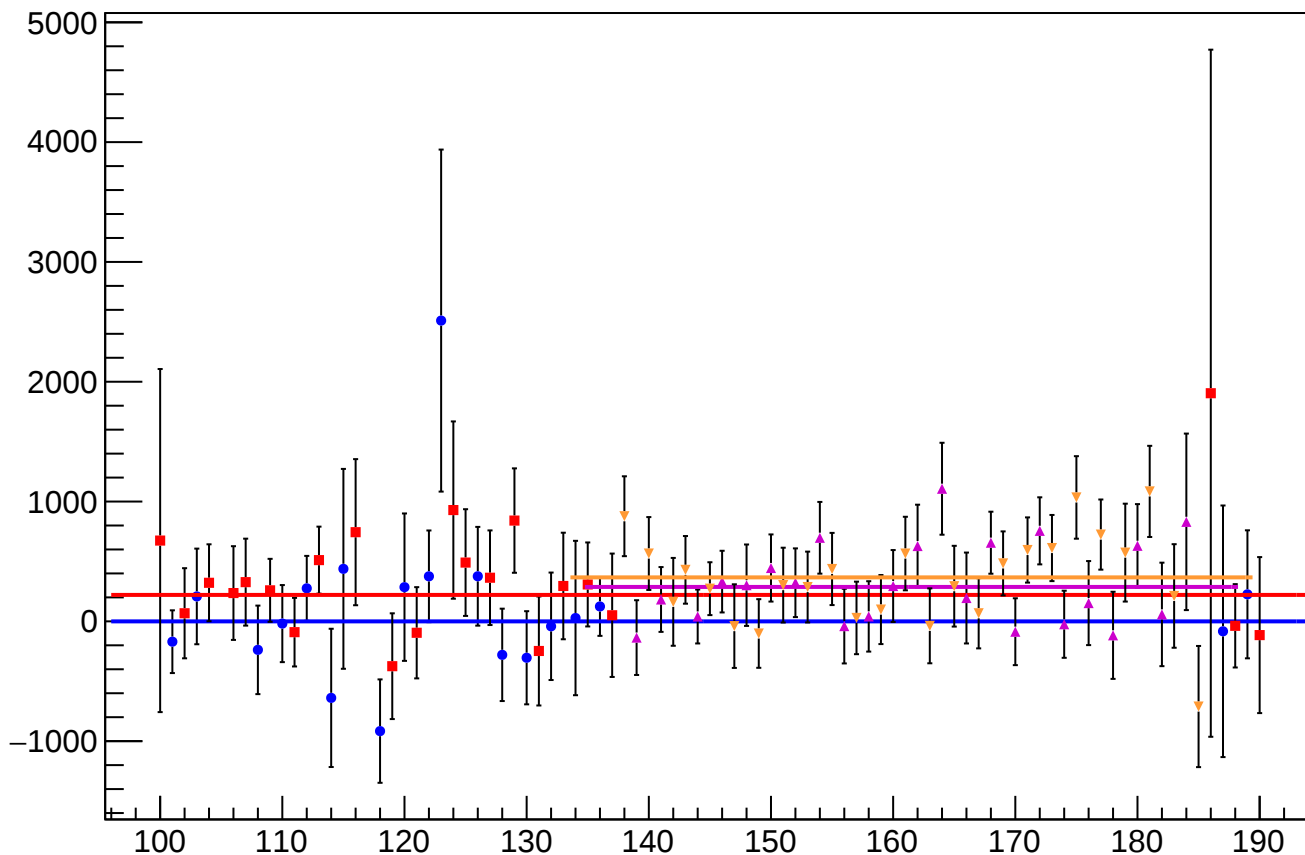
Right: 2609.603+/-1.198 χ^2/NDF : 340267.2/11

In: 761.520+/-0.132 χ^2/NDF : 2762900.0/28

Out: 778.759+/-0.130 χ^2/NDF : 4273661.2/30

All: 770.249+/-0.092 χ^2/NDF : 7045242.9/59

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -0.242 $\pm$ 91.712 χ^2/NDF : 14.9/18

Left Out: 367.028 $\pm$ 61.943 χ^2/NDF : 28.2/24

Right Out: 220.662 $\pm$ 85.533 χ^2/NDF : 11.8/21

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

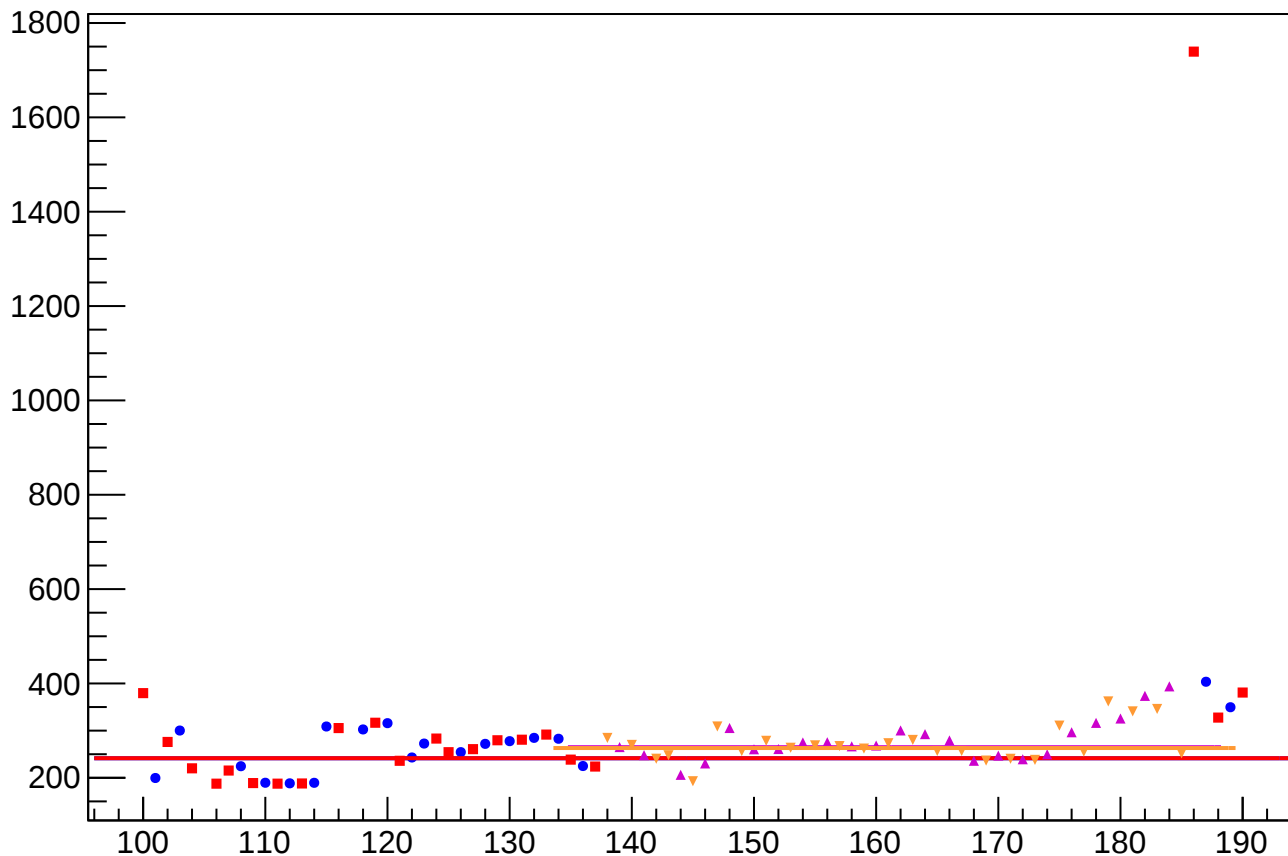
Right: 117.901 $\pm$ 62.551 χ^2/NDF : 29.8/40

In: 192.817 $\pm$ 52.562 χ^2/NDF : 45.3/41

Out: 316.673 $\pm$ 50.169 χ^2/NDF : 42.0/46

All: 257.628 $\pm$ 36.291 χ^2/NDF : 90.2/88

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 241.348+/-0.065 χ^2/NDF : 524742.0/18

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 241.557+/-0.060 χ^2/NDF : 1228362.6/21

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

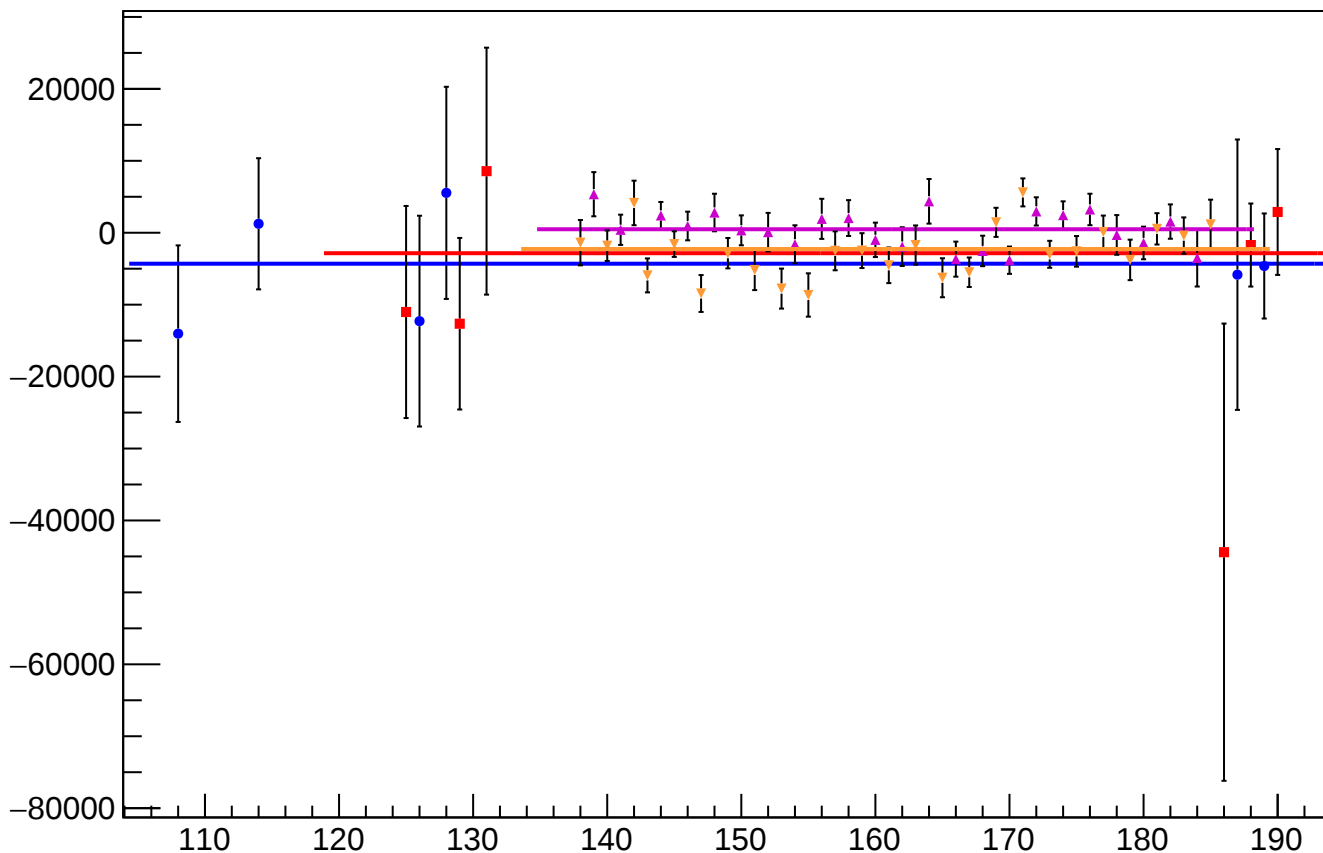
Right: 241.459+/-0.044 χ^2/NDF : 1753110.1/40

In: 257.179+/-0.037 χ^2/NDF : 1222515.1/41

Out: 255.690+/-0.035 χ^2/NDF : 1953839.0/46

All: 256.400+/-0.026 χ^2/NDF : 3177194.3/88

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4305.651 $\pm$ 4494.661 χ^2 /NDF: 1.7/5

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: -2845.856 $\pm$ 4113.922 χ^2 /NDF: 3.6/5

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

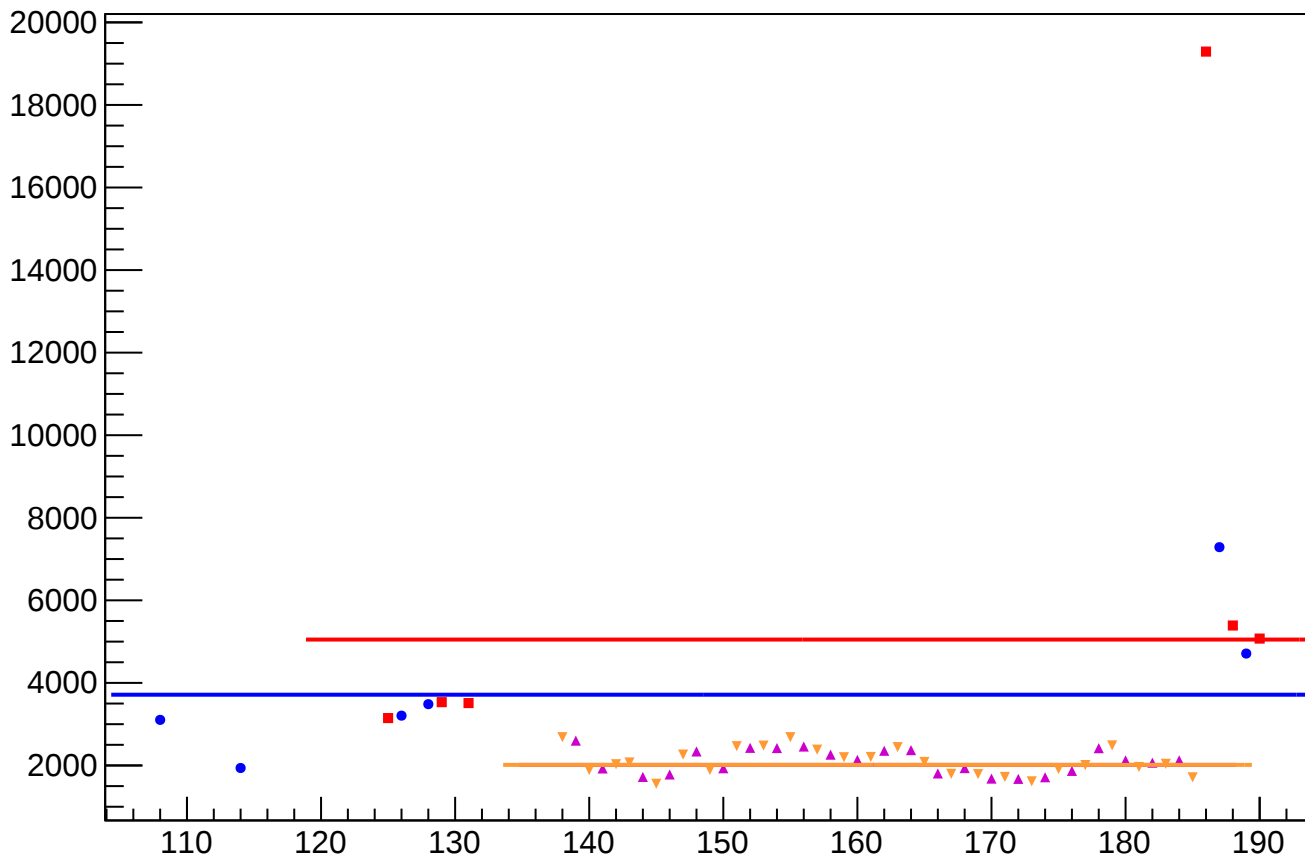
Right: -3511.316 $\pm$ 3034.674 χ^2 /NDF: 5.4/11

In: 429.889 $\pm$ 484.624 χ^2 /NDF:27.6/28

Out: -2267.912 $\pm$ 472.194 χ^2 /NDF:56.0/30

All: -954.051 $\pm$ 338.200 χ^2 /NDF: 99.5/59

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 3713.848+/-3.178 χ^2/NDF : 193206.0/5

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 5049.853+/-2.909 χ^2/NDF : 490242.5/5

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

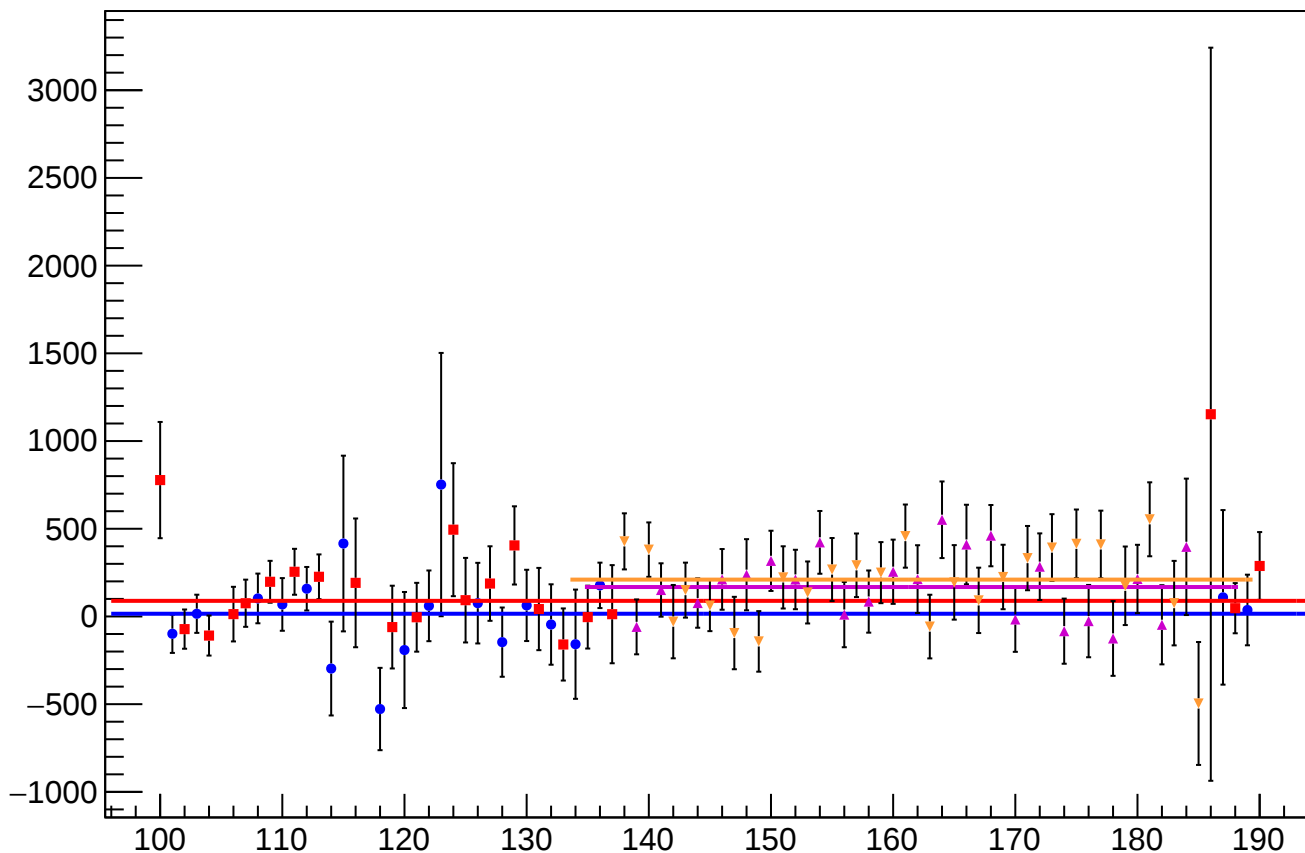
Right: 4440.824+/-2.146 χ^2/NDF : 779601.9/11

In: 2033.016+/-0.343 χ^2/NDF : 1138268.5/28

Out: 2054.100+/-0.334 χ^2/NDF : 2400605.3/30

All: 2043.832+/-0.239 χ^2/NDF : 3540815.7/59

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 15.478 $\pm$ 41.313 χ^2/NDF : 14.5/18

Left Out: 210.086 $\pm$ 37.093 χ^2/NDF : 27.5/24

Right Out: 89.002 $\pm$ 36.958 χ^2/NDF : 20.6/21

Left In: 167.822 $\pm$ 38.718 χ^2/NDF : 21.1/22

Left: 189.859 $\pm$ 26.785 χ^2/NDF : 49.3/47

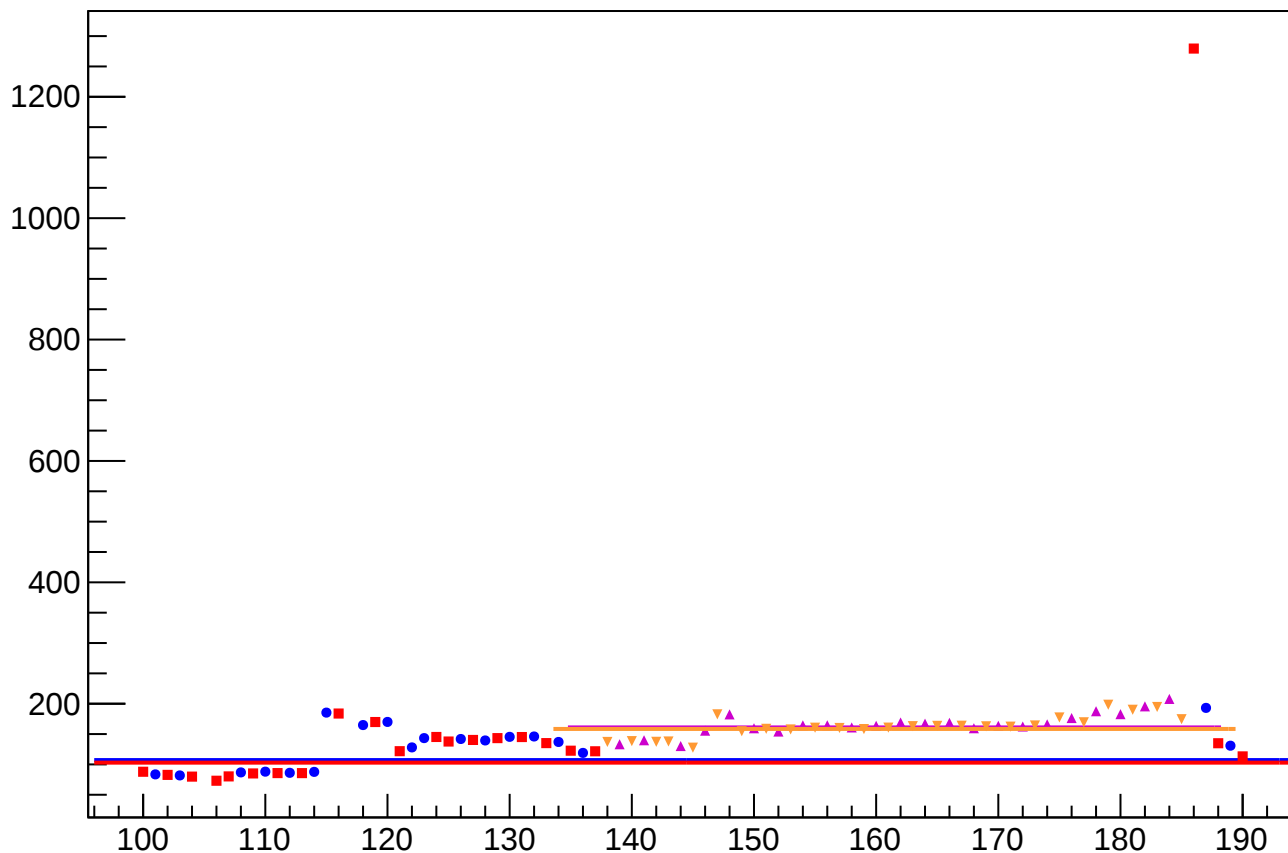
Right: 56.318 $\pm$ 27.545 χ^2/NDF : 36.8/40

In: 96.584 $\pm$ 28.250 χ^2/NDF : 42.8/41

Out: 149.323 $\pm$ 26.181 χ^2/NDF : 53.5/46

All: 124.956 $\pm$ 19.203 χ^2/NDF : 98.2/88

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 107.142 $\pm$ 0.029 χ^2 /NDF: 960808.7/18

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 102.908 $\pm$ 0.026 χ^2 /NDF: 1753886.3/21

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

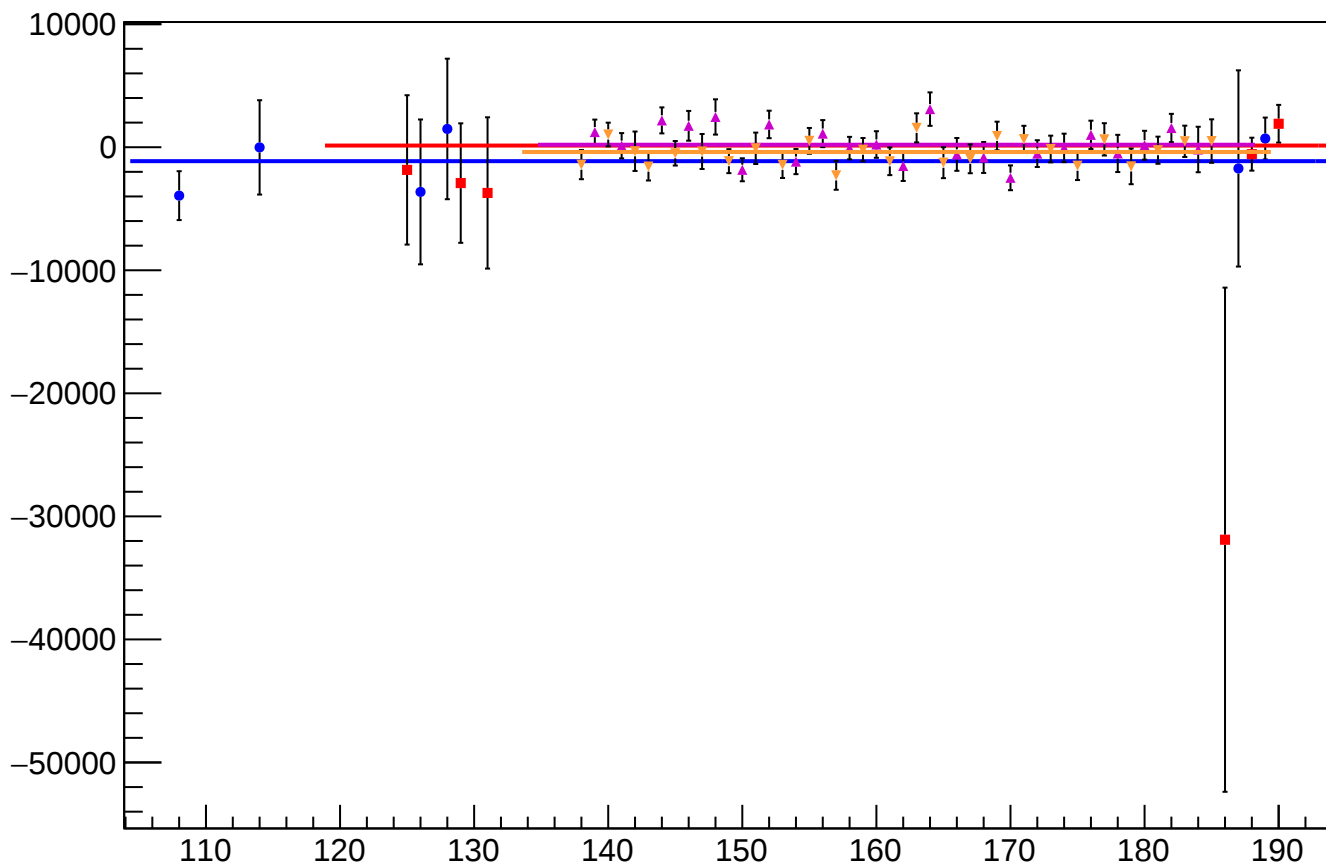
Right: 104.790 $\pm$ 0.019 χ^2 /NDF: 2726363.6/40

In: 135.787 $\pm$ 0.020 χ^2 /NDF: 3146608.7/41

Out: 130.573 $\pm$ 0.019 χ^2 /NDF: 4437645.1/46

All: 132.982 $\pm$ 0.014 χ^2 /NDF: 7620913.0/88

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -1132.146+/-1161.075 χ^2/NDF : 3.6/5

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 136.357+/-961.652 χ^2/NDF : 4.9/5

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

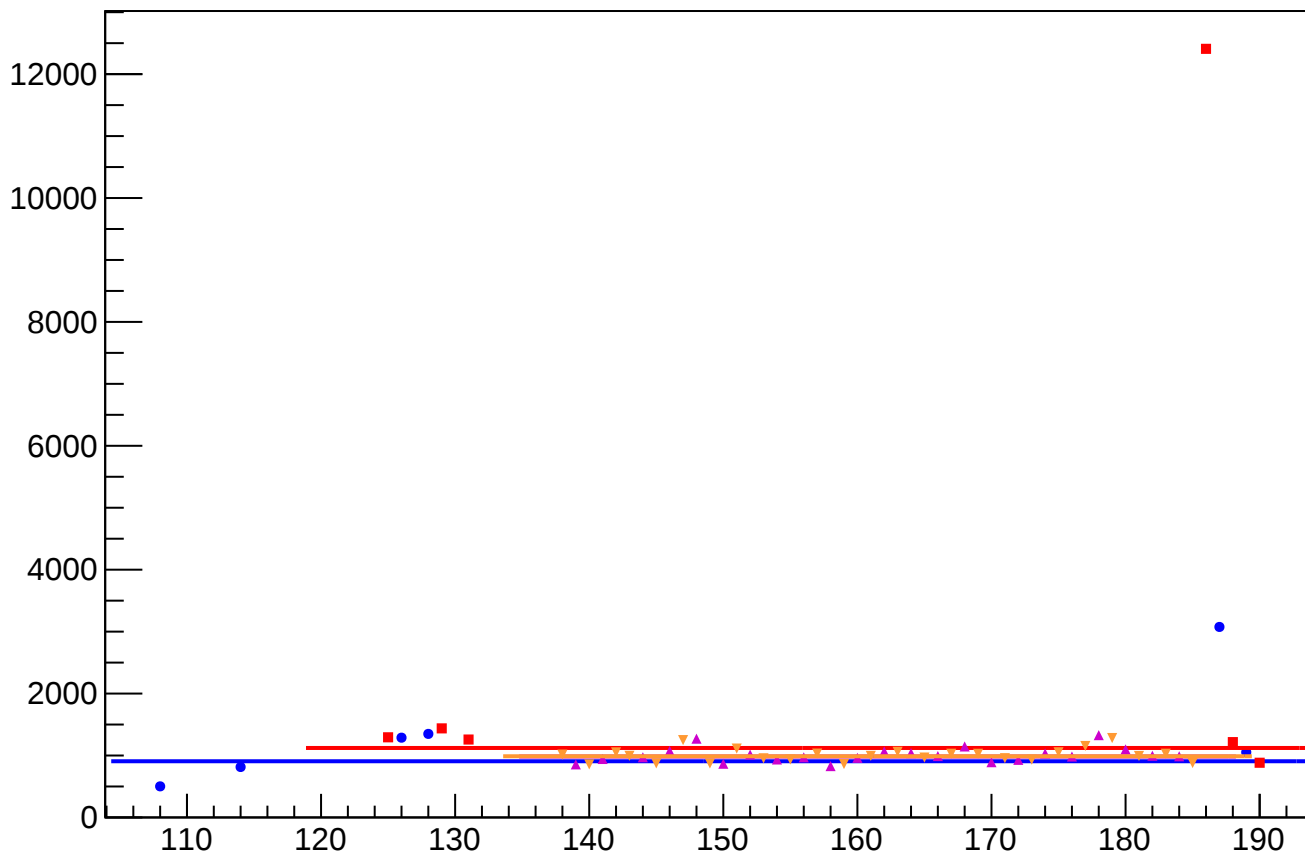
Right: -379.766+/-740.612 χ^2/NDF : 9.3/11

In: 148.661+/-232.644 χ^2/NDF : 40.4/28

Out: -356.381+/-225.376 χ^2/NDF : 23.3/30

All: -111.872+/-161.874 χ^2/NDF : 66.1/59

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 907.313 $\pm$ 0.821 χ^2/NDF : 267239.8/5

Left Out: 987.869 $\pm$ 0.164 χ^2/NDF : 376958.5/24

Right Out: 1121.758 $\pm$ 0.680 χ^2/NDF : 676393.6/5

Left In: 983.893 $\pm$ 0.168 χ^2/NDF : 416265.7/22

Left: 985.929 $\pm$ 0.117 χ^2/NDF : 793511.2/47

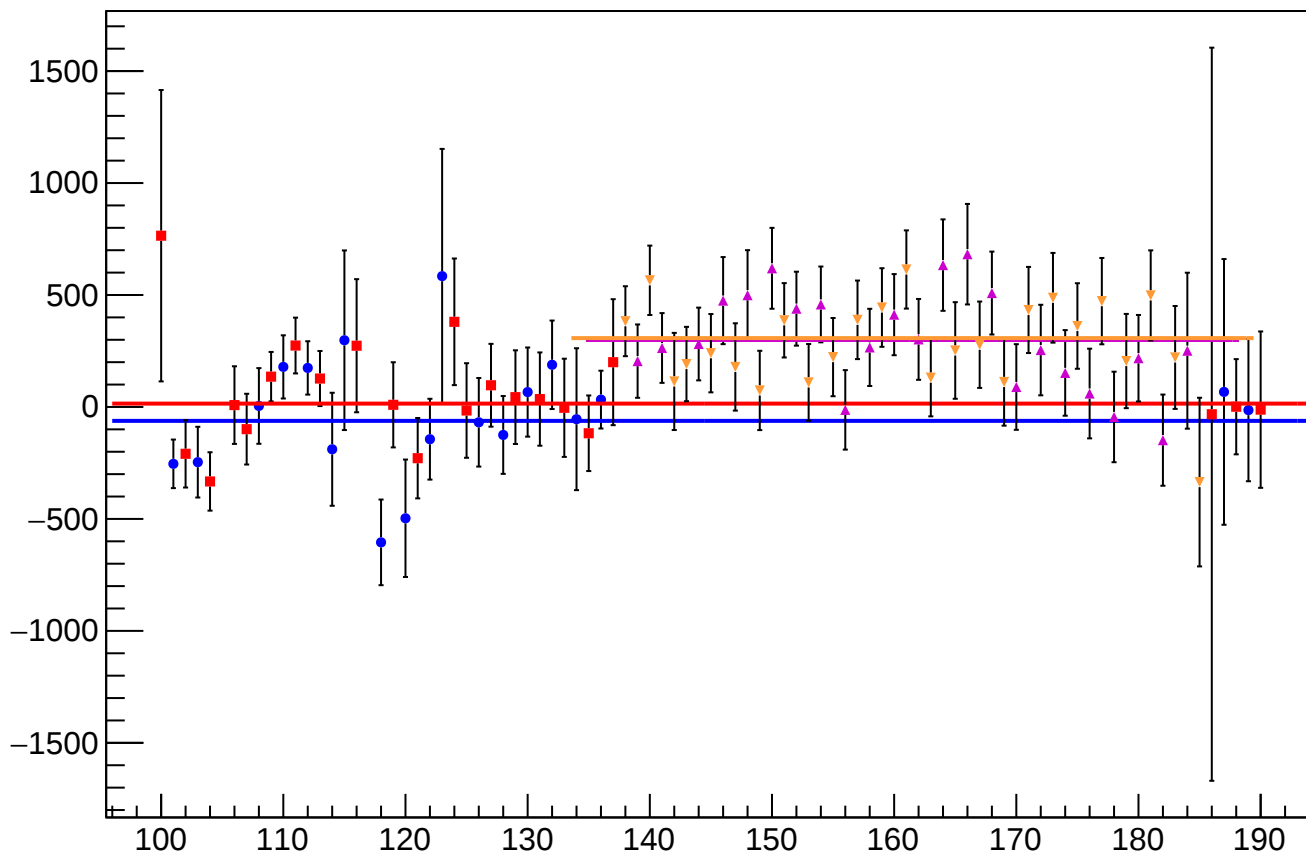
Right: 1034.506 $\pm$ 0.524 χ^2/NDF : 984099.3/11

In: 980.819 $\pm$ 0.165 χ^2/NDF : 691856.7/28

Out: 995.223 $\pm$ 0.159 χ^2/NDF : 1089991.8/30

All: 988.249 $\pm$ 0.114 χ^2/NDF : 1785803.7/59

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -62.115 $\pm$ 41.861 χ^2 /NDF: 27.6/18

Left Out: 307.487 $\pm$ 37.278 χ^2 /NDF:20.7/24

Right Out: 15.002 $\pm$ 38.616 χ^2 /NDF: 23.1/21

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

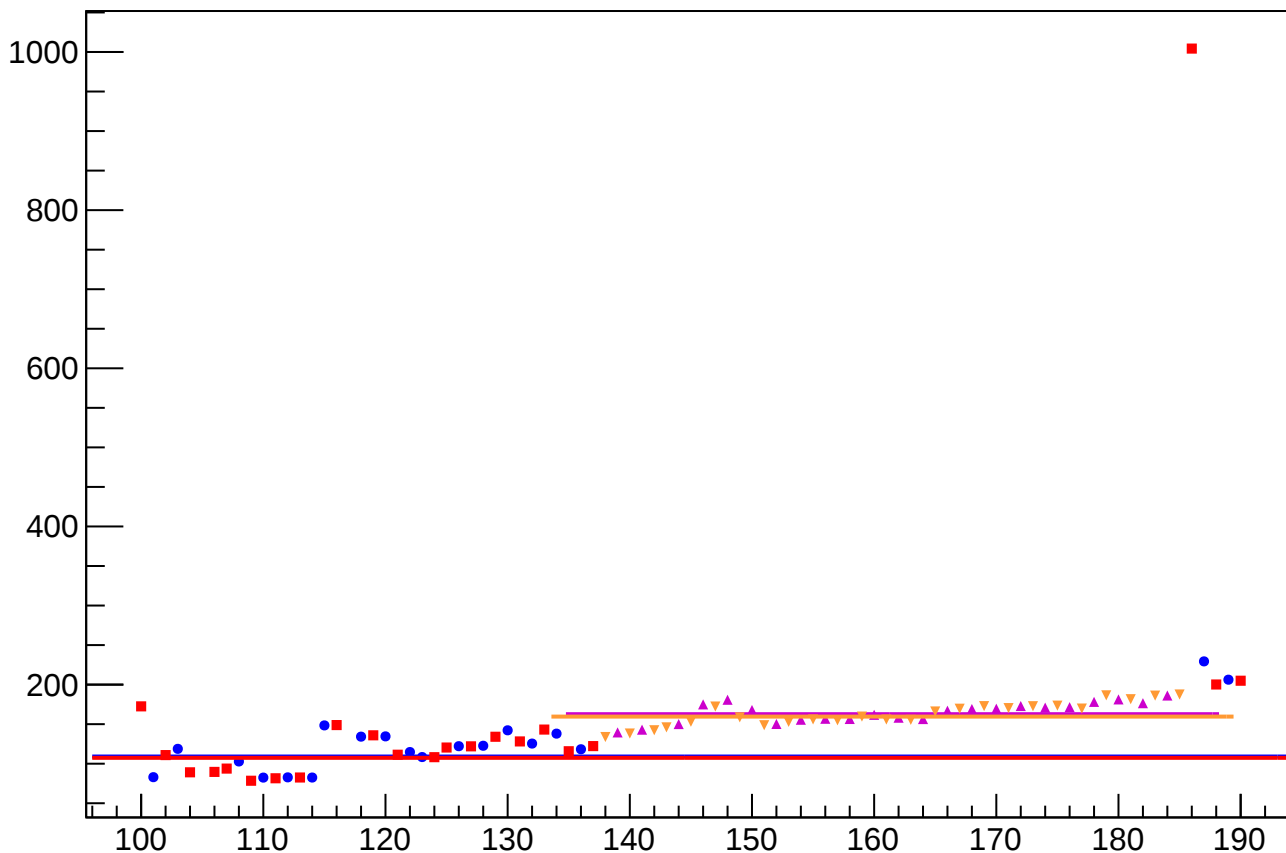
Right: -20.453 $\pm$ 28.384 χ^2 /NDF: 52.6/40

In: 131.263 $\pm$ 28.538 χ^2 /NDF:96.0/41

Out: 166.403 $\pm$ 26.820 χ^2 /NDF:73.5/46

All: 149.923 $\pm$ 19.544 χ^2 /NDF: 170.3/88

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 109.071+/-0.030 χ^2/NDF : 778566.0/18

Left Out: 159.568+/-0.026 χ^2/NDF : 287744.2/24

Right Out: 107.430+/-0.027 χ^2/NDF : 1759421.1/21

Left In: 162.606+/-0.028 χ^2/NDF : 199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

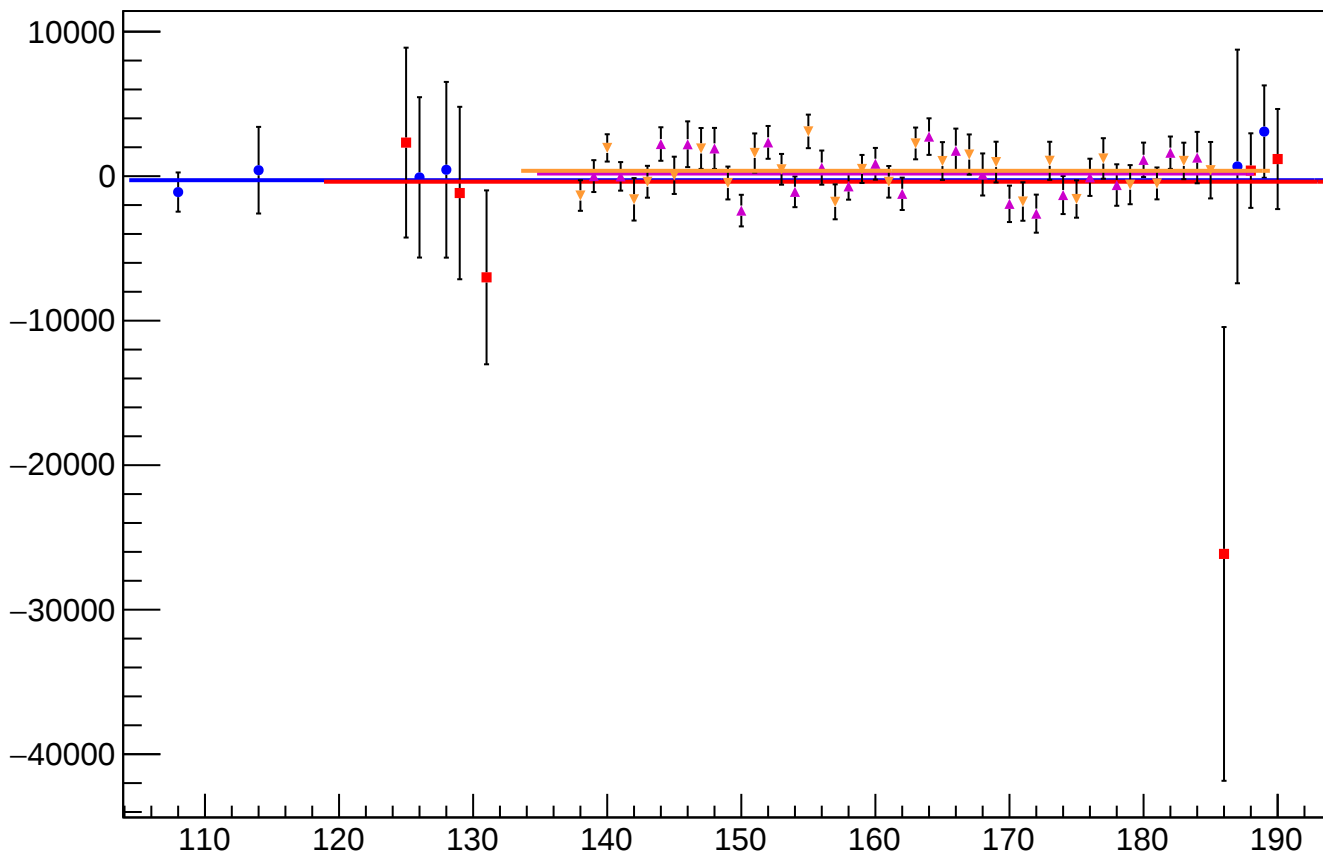
Right: 108.185+/-0.020 χ^2/NDF : 2539648.3/40

In: 137.724+/-0.020 χ^2/NDF : 2728865.5/41

Out: 134.419+/-0.019 χ^2/NDF : 3934393.1/46

All: 135.969+/-0.014 χ^2/NDF : 6677507.0/88

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -278.910+/-1099.441 χ^2/NDF : 1.6/5

Left Out: 370.001+/-243.521 χ^2/NDF : 30.5/24

Right Out: -384.243+/-1777.396 χ^2/NDF : 4.4/5

Left In: 183.107+/-252.258 χ^2/NDF : 36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

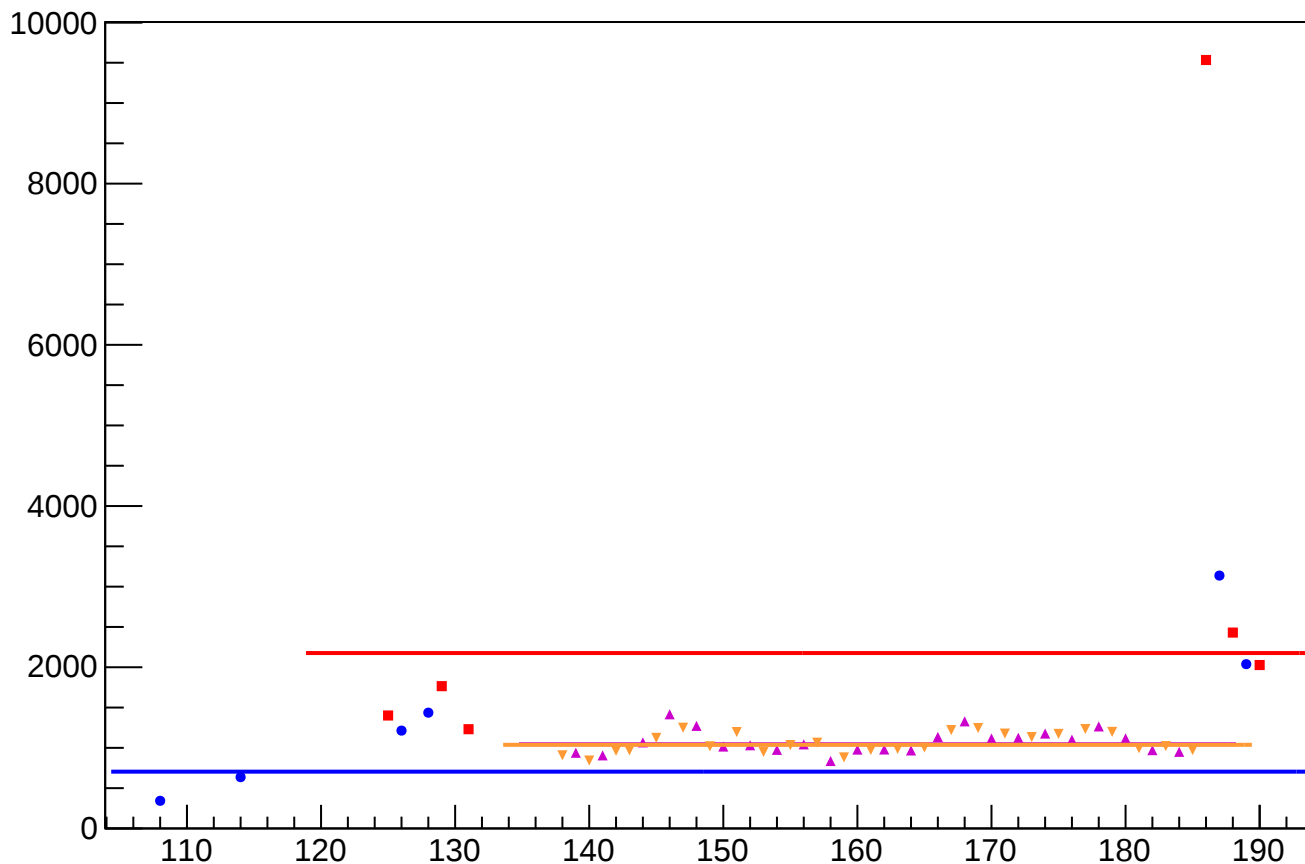
Right: -308.059+/-935.017 χ^2/NDF : 5.9/11

In: 160.001+/-245.869 χ^2/NDF : 38.2/28

Out: 356.103+/-241.267 χ^2/NDF : 35.0/30

All: 259.905+/-172.206 χ^2/NDF : 73.6/59

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 704.653+/-0.777 χ^2/NDF : 718254.4/5

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 2176.217+/-1.257 χ^2/NDF : 548877.4/5

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

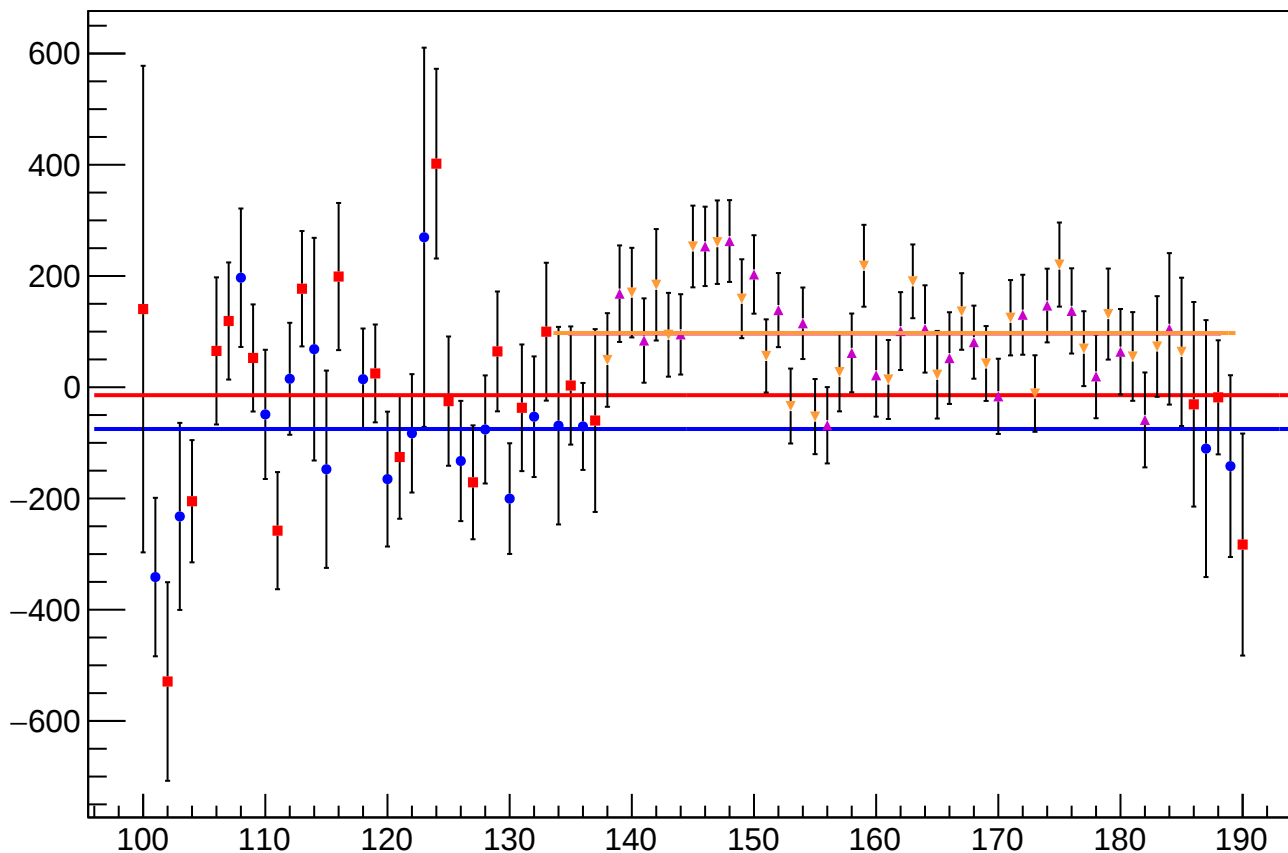
Right: 1111.893+/-0.661 χ^2/NDF : 2258682.0/11

In: 1027.737+/-0.174 χ^2/NDF : 1443371.7/28

Out: 1058.668+/-0.171 χ^2/NDF : 1849370.9/30

All: 1043.495+/-0.122 χ^2/NDF : 3308867.1/59

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -75.101 ± 27.810 $\chi^2/\text{NDF}: 15.3/18$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -14.281 ± 25.542 $\chi^2/\text{NDF}: 38.1/21$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

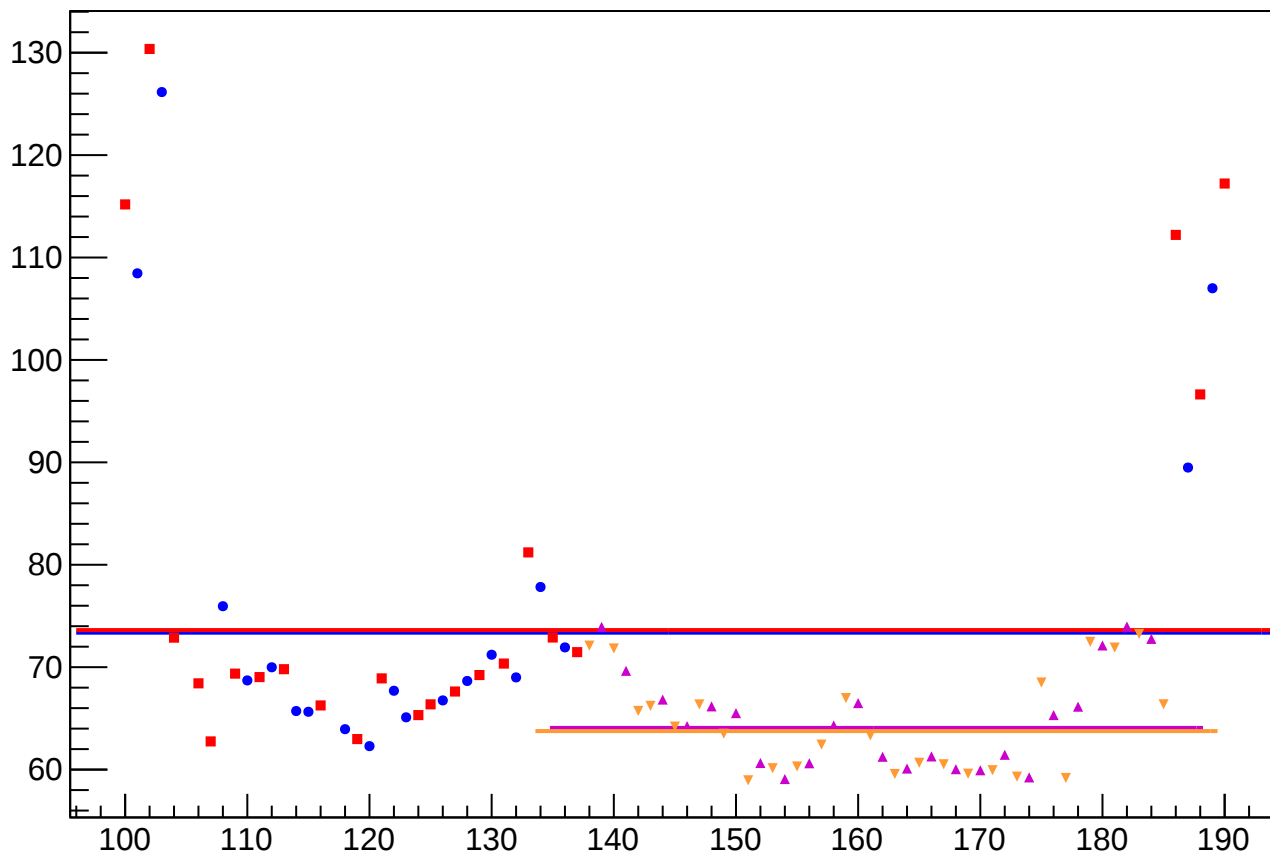
Right: -42.111 ± 18.812 $\chi^2/\text{NDF}: 56.0/40$

In: 56.507 ± 13.452 $\chi^2/\text{NDF}: 73.8/41$

Out: 69.136 ± 12.857 $\chi^2/\text{NDF}: 88.4/46$

All: 63.107 ± 9.294 $\chi^2/\text{NDF}: 162.6/88$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.369+/-0.020 χ^2/NDF : 489168.8/18

Left Out: 63.761+/-0.011 χ^2/NDF : 192803.8/24

Right Out: 73.622+/-0.018 χ^2/NDF : 610478.0/21

Left In: 64.069+/-0.011 χ^2/NDF : 164660.4/22

Left: 63.910+/-0.008 χ^2/NDF : 357877.2/47

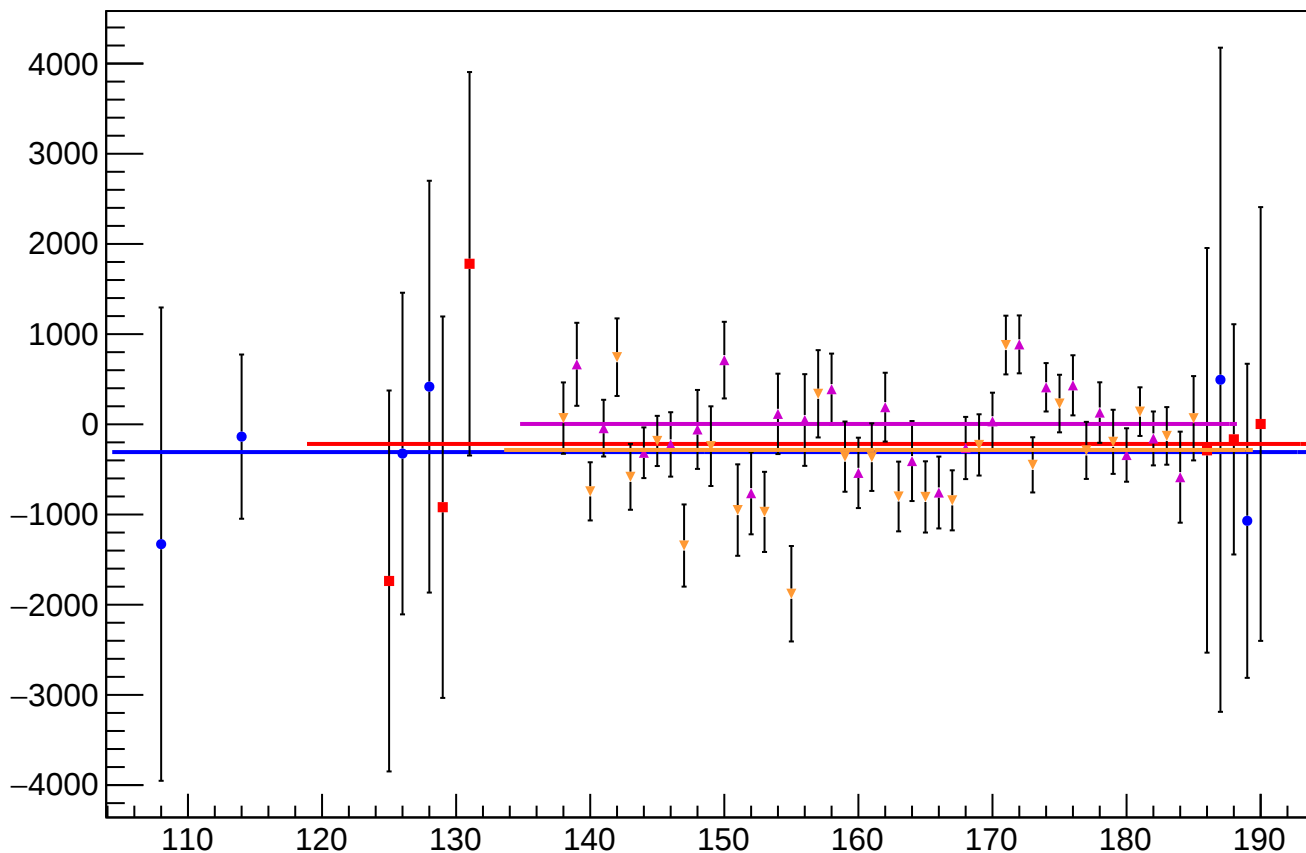
Right: 73.506+/-0.013 χ^2/NDF : 1099737.2/40

In: 66.244+/-0.010 χ^2/NDF : 825167.2/41

Out: 66.260+/-0.009 χ^2/NDF : 1025860.1/46

All: 66.252+/-0.007 χ^2/NDF : 1851028.6/88

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -307.726+/-664.985 χ^2/NDF : 0.5/5

Left Out: -284.304+/-72.732 χ^2/NDF :55.1/24

Right Out: -217.532+/-777.437 χ^2/NDF : 1.5/5

Left In: 4.037+/-75.084 χ^2/NDF :32.4/22

Left: -144.720+/-52.241 χ^2/NDF : 95.0/47

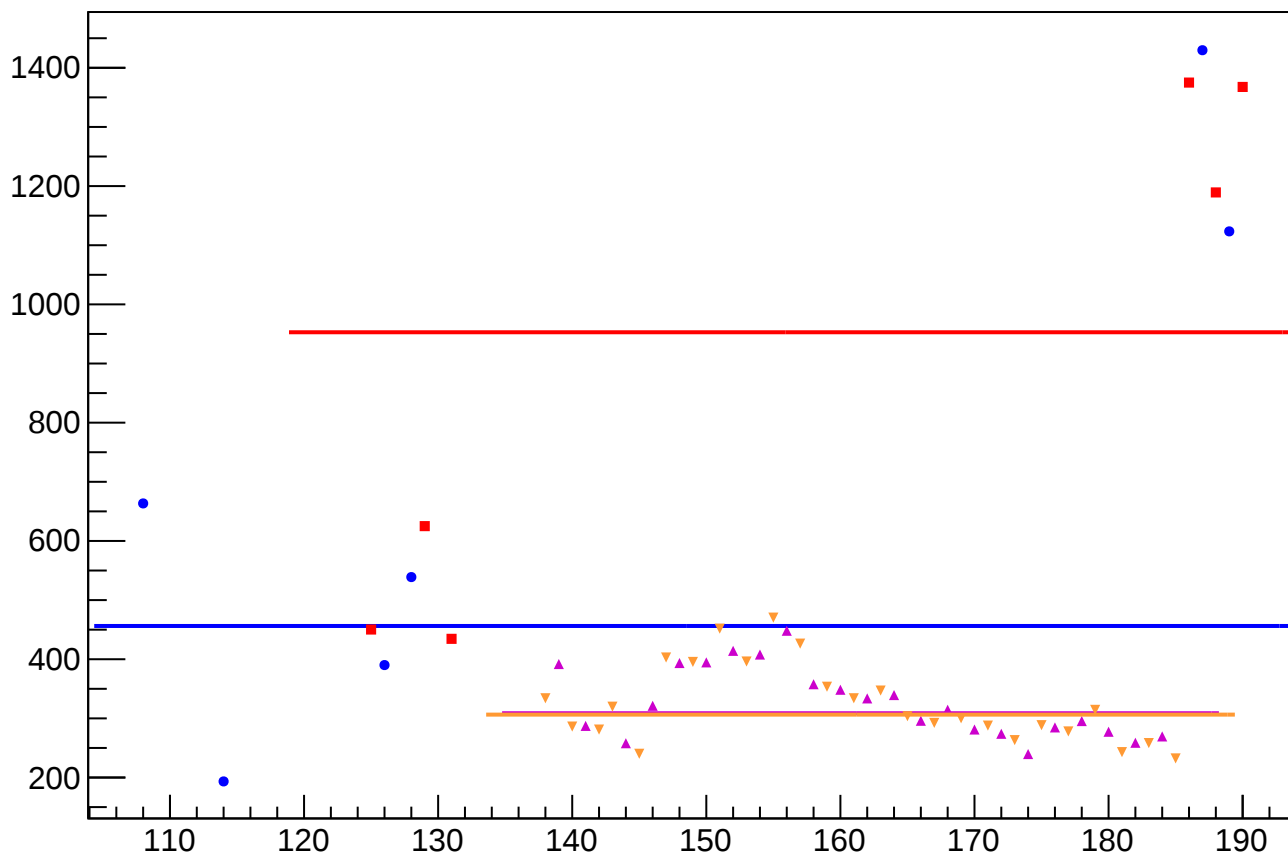
Right: -269.618+/-505.340 χ^2/NDF : 2.1/11

In: 0.112+/-74.610 χ^2/NDF :33.1/28

Out: -283.724+/-72.416 χ^2/NDF :56.6/30

All: -146.041+/-51.964 χ^2/NDF : 97.1/59

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 456.242 $\pm$ 0.470 χ^2 /NDF: 617928.7/5

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF:1215669.9/24

Right Out: 952.850 $\pm$ 0.550 χ^2 /NDF: 479210.7/5

Left In: 308.727 $\pm$ 0.053 χ^2 /NDF:1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2 /NDF: 2219640.0/47

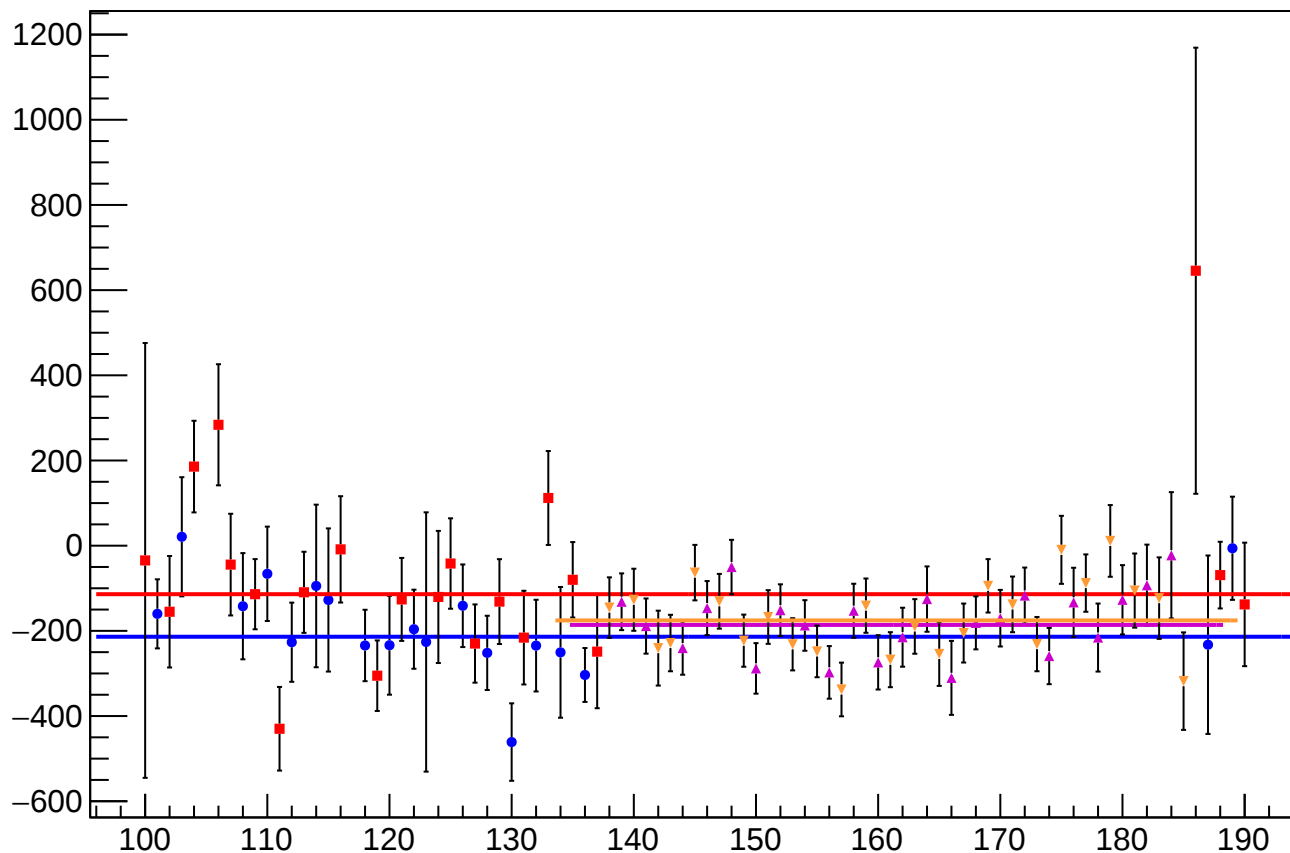
Right: 666.064 $\pm$ 0.357 χ^2 /NDF: 1568409.9/11

In: 310.584 $\pm$ 0.053 χ^2 /NDF:1718056.8/28

Out: 311.972 $\pm$ 0.051 χ^2 /NDF:3065870.9/30

All: 311.299 $\pm$ 0.037 χ^2 /NDF: 4784284.3/59

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -213.806 ± 24.264 $\chi^2/\text{NDF}: 19.4/18$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -113.878 ± 23.199 $\chi^2/\text{NDF}: 43.2/21$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

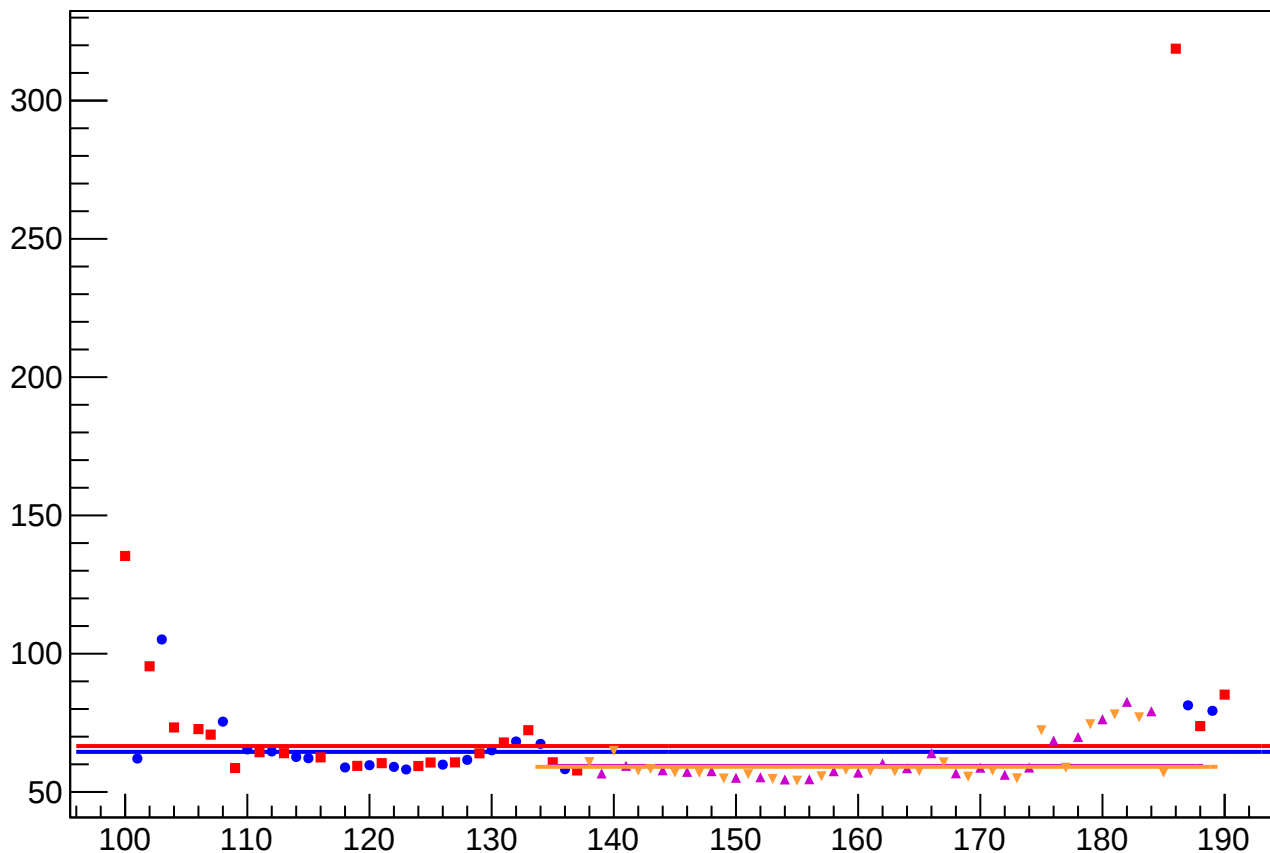
Right: -161.601 ± 16.768 $\chi^2/\text{NDF}: 71.5/40$

In: -193.215 ± 12.329 $\chi^2/\text{NDF}: 43.9/41$

Out: -159.293 ± 11.889 $\chi^2/\text{NDF}: 83.1/46$

All: -175.638 ± 8.558 $\chi^2/\text{NDF}: 130.9/88$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 64.497 $\pm$ 0.017 χ^2 /NDF: 279286.6/18

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 66.602 $\pm$ 0.016 χ^2 /NDF: 750785.2/21

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

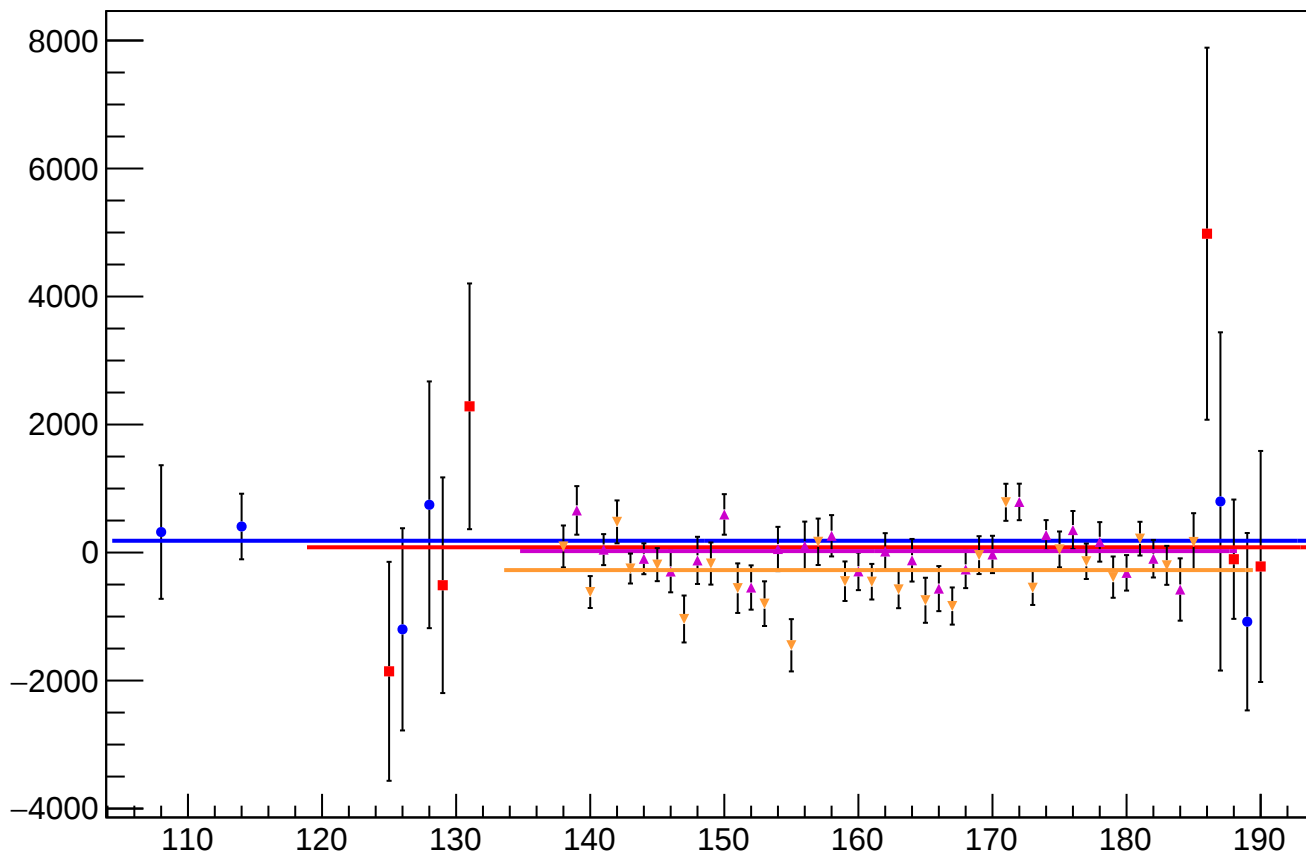
Right: 65.597 $\pm$ 0.012 χ^2 /NDF: 1037938.0/40

In: 60.724 $\pm$ 0.009 χ^2 /NDF: 717533.4/41

Out: 61.070 $\pm$ 0.008 χ^2 /NDF: 1274816.2/46

All: 60.903 $\pm$ 0.006 χ^2 /NDF: 1993166.8/88

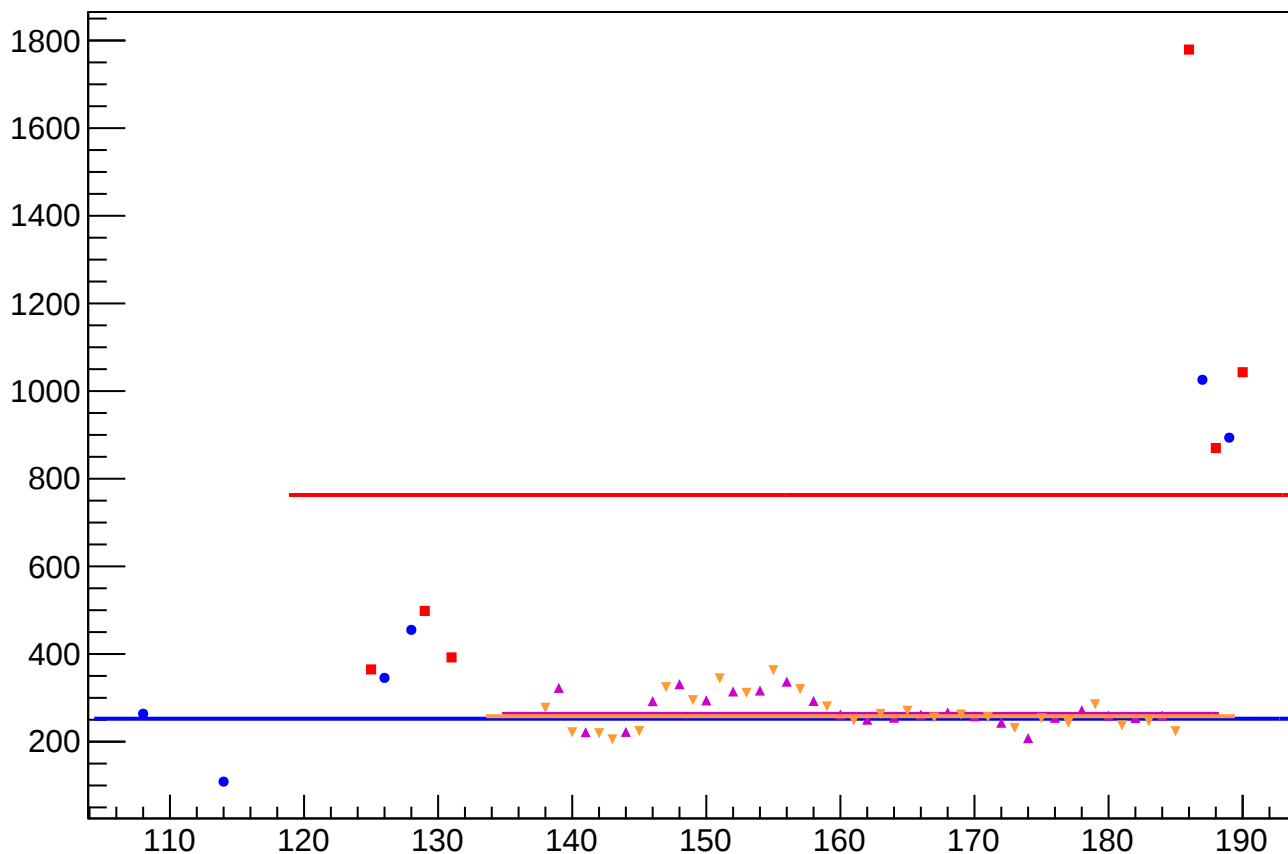
asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 184.150+/-406.180 χ^2/NDF : 1.9/5
 Left Out: -274.091+/-60.799 χ^2/NDF :53.9/24
 Right Out: 82.246+/-627.206 χ^2/NDF : 5.6/5
 Left In: 22.631+/-63.643 χ^2/NDF :28.9/22

Left: -132.507+/-43.963 χ^2/NDF : 94.2/47
 Right: 154.040+/-340.932 χ^2/NDF : 7.6/11
 In: 26.501+/-62.876 χ^2/NDF :31.0/28
 Out: -270.774+/-60.516 χ^2/NDF :59.9/30
 All: -127.821+/-43.602 χ^2/NDF : 102.5/59

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 252.370 $\pm$ 0.287 χ^2 /NDF: 786101.7/5

Left Out: 258.040 $\pm$ 0.043 χ^2 /NDF: 724823.3/24

Right Out: 762.874 $\pm$ 0.444 χ^2 /NDF: 551445.8/5

Left In: 263.397 $\pm$ 0.045 χ^2 /NDF: 585600.2/22

Left: 260.596 $\pm$ 0.031 χ^2 /NDF: 1317830.8/47

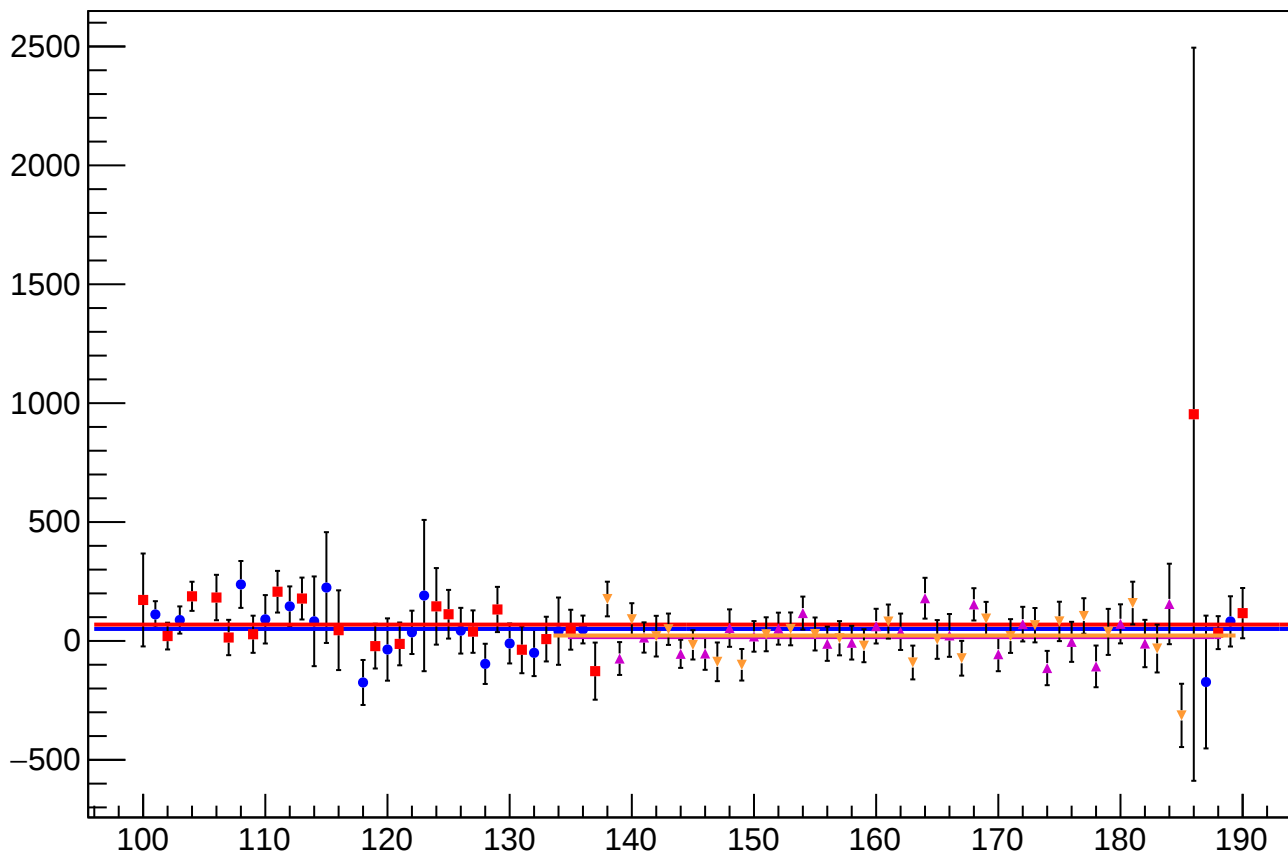
Right: 403.209 $\pm$ 0.241 χ^2 /NDF: 2271032.2/11

In: 263.132 $\pm$ 0.044 χ^2 /NDF: 1373140.5/28

Out: 262.740 $\pm$ 0.043 χ^2 /NDF: 2559914.5/30

All: 262.929 $\pm$ 0.031 χ^2 /NDF: 3933095.6/59

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 50.461 $\pm$ 21.053 χ^2 /NDF: 18.9/18

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 68.757 $\pm$ 19.282 χ^2 /NDF: 18.8/21

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

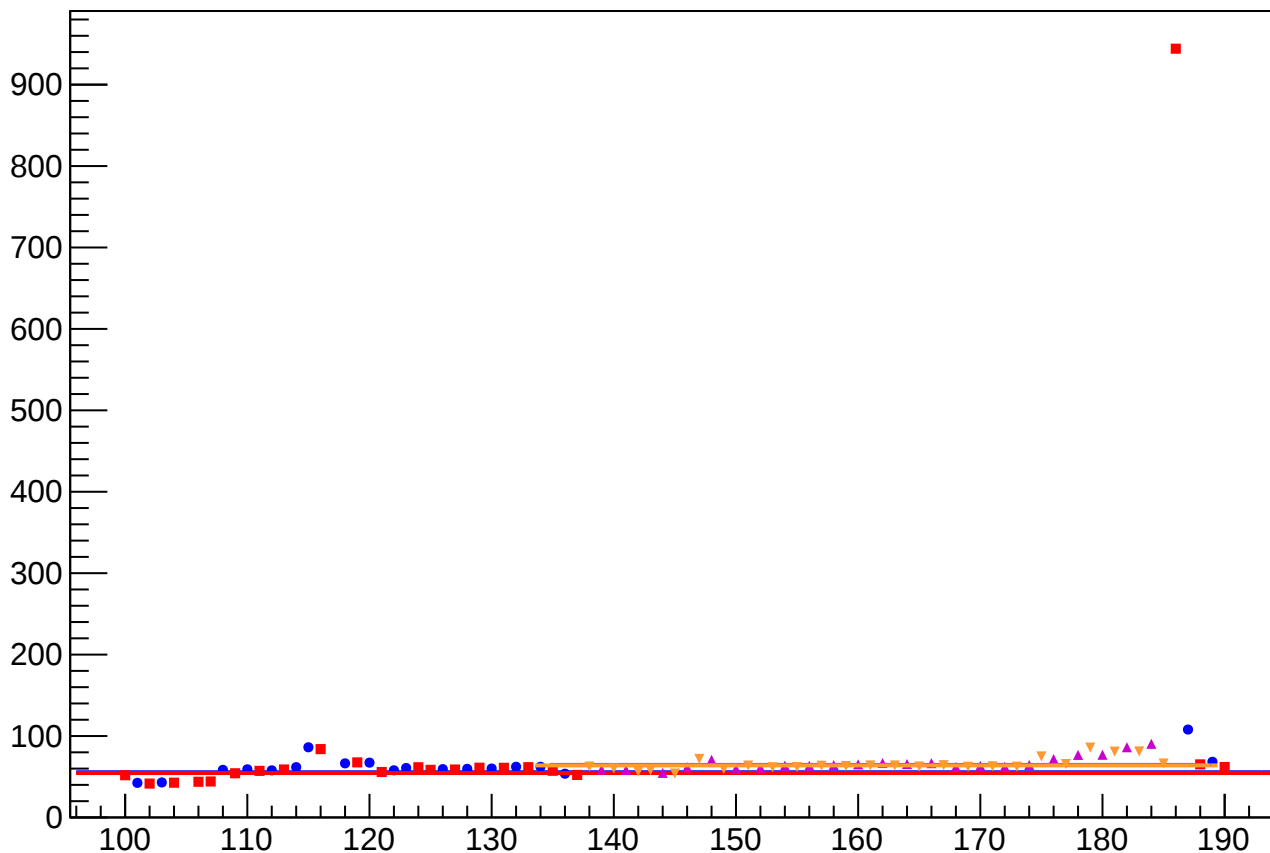
Right: 60.410 $\pm$ 14.219 χ^2 /NDF: 38.2/40

In: 28.273 $\pm$ 12.498 χ^2 /NDF:44.0/41

Out: 40.124 $\pm$ 11.824 χ^2 /NDF:51.4/46

All: 34.527 $\pm$ 8.589 χ^2 /NDF: 95.8/88

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 55.488+/-0.015 χ^2/NDF : 422449.2/18

Left Out: 63.920+/-0.011 χ^2/NDF : 395410.4/24

Right Out: 54.574+/-0.014 χ^2/NDF : 1119306.0/21

Left In: 64.511+/-0.011 χ^2/NDF : 370515.2/22

Left: 64.204+/-0.008 χ^2/NDF : 767426.6/47

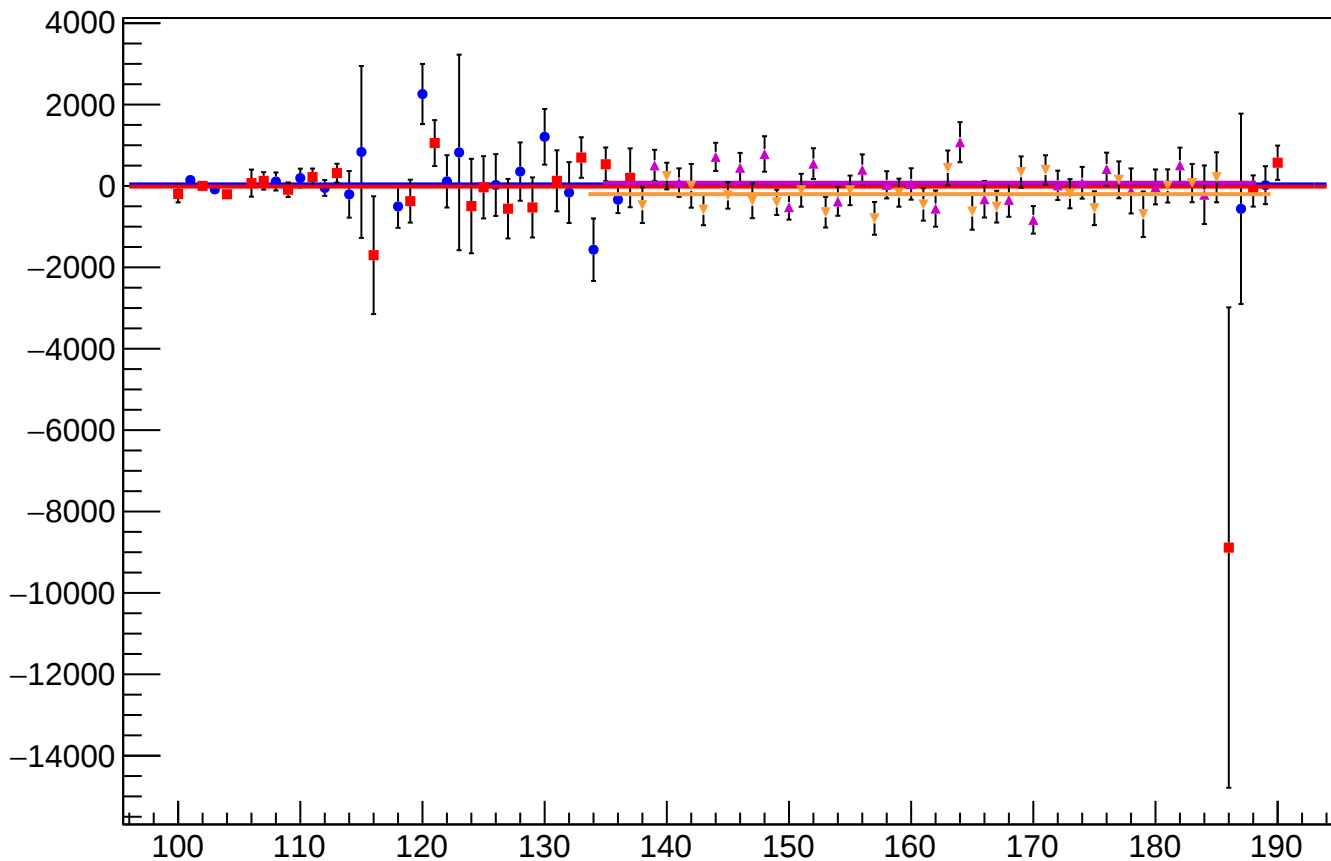
Right: 54.991+/-0.010 χ^2/NDF : 1543803.8/40

In: 61.331+/-0.009 χ^2/NDF : 1030857.2/41

Out: 60.406+/-0.008 χ^2/NDF : 1807872.6/46

All: 60.843+/-0.006 χ^2/NDF : 2844511.0/88

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 38.489 ± 51.237 χ^2/NDF : 23.9/18

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: -14.870 ± 52.371 χ^2/NDF : 23.1/21

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

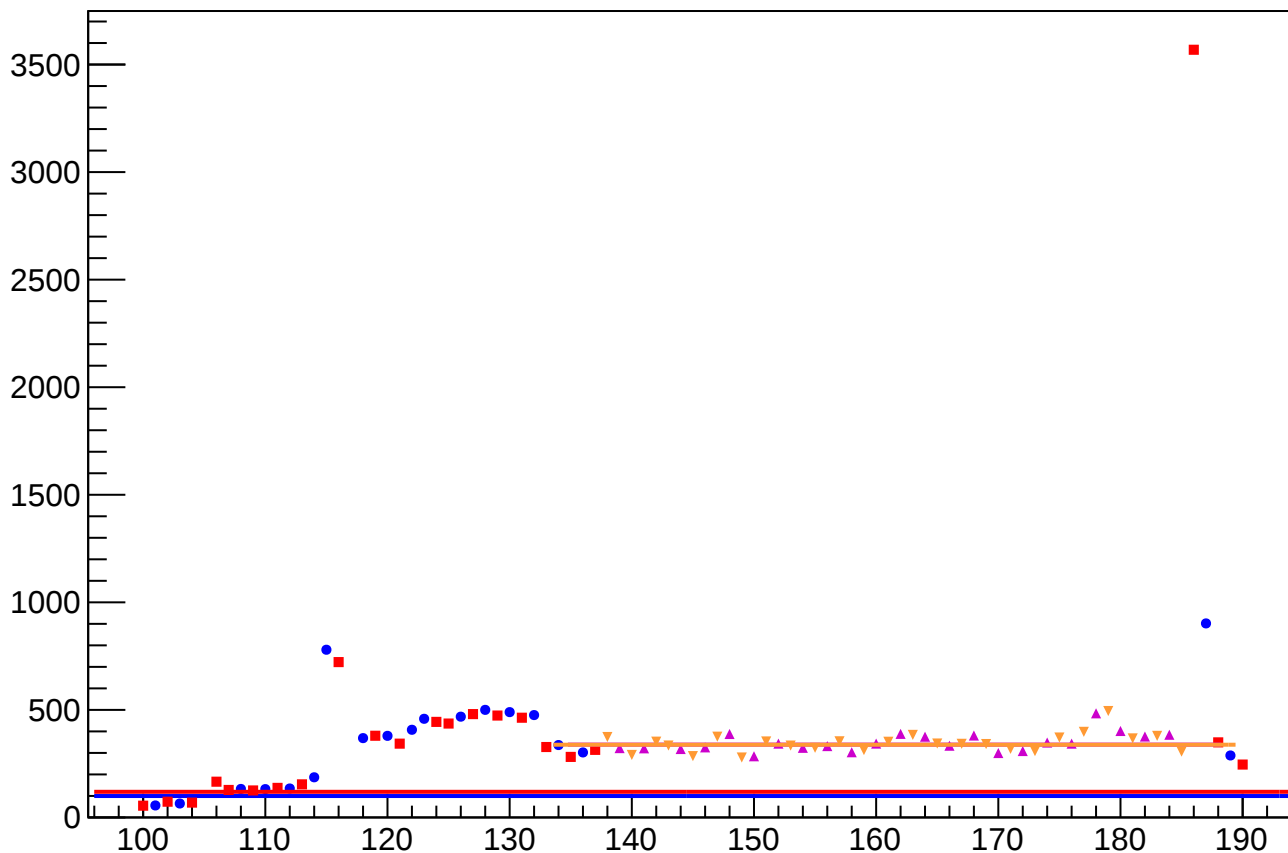
Right: 12.393 ± 36.624 χ^2/NDF : 47.5/40

In: 50.186 ± 43.419 χ^2/NDF : 57.5/41

Out: -71.175 ± 43.742 χ^2/NDF : 46.6/46

All: -10.045 ± 30.816 χ^2/NDF : 107.9/88

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 99.593+/-0.036 χ^2/NDF : 6367896.2/18

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 119.257+/-0.037 χ^2/NDF : 6628425.9/21

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

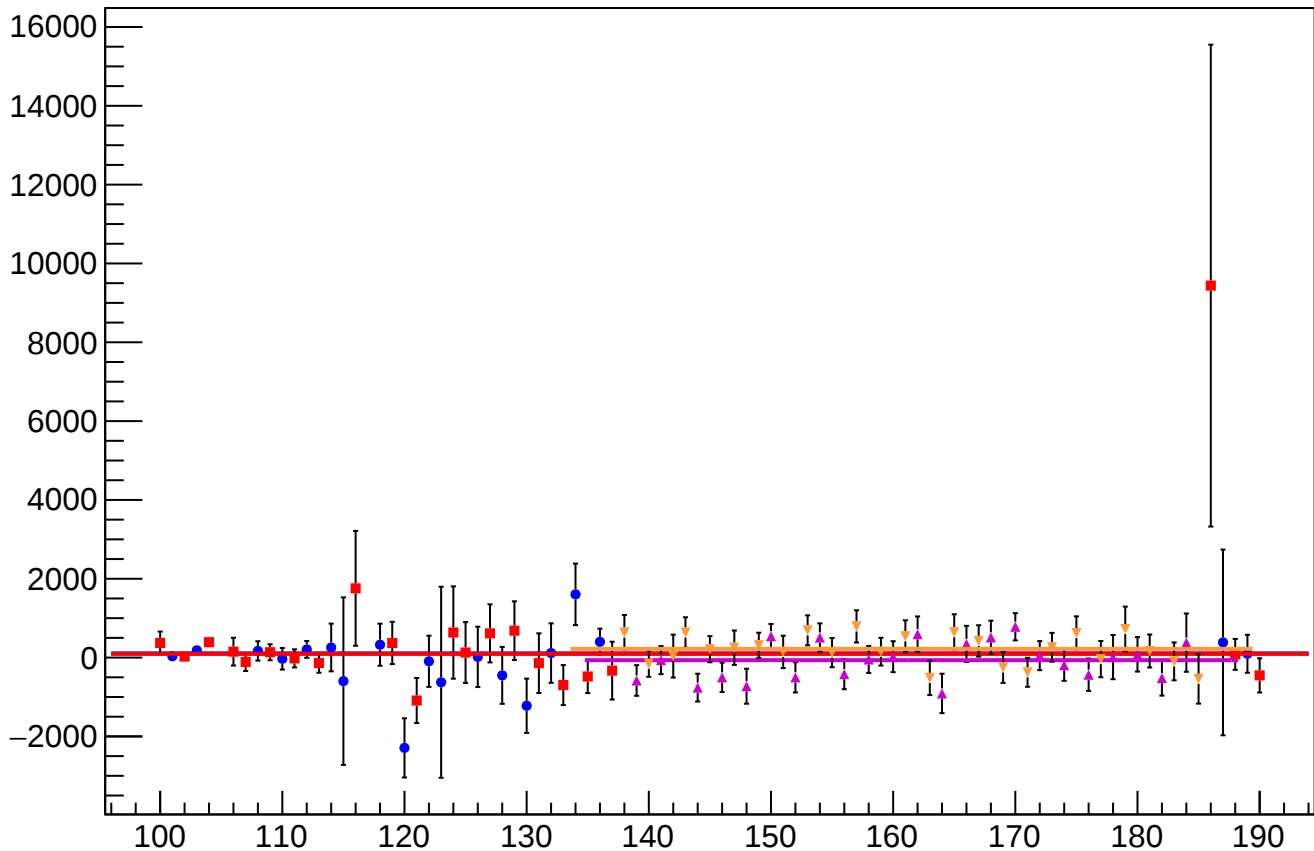
Right: 109.210+/-0.026 χ^2/NDF : 13140384.2/40

In: 166.953+/-0.031 χ^2/NDF : 19068623.5/41

Out: 185.437+/-0.031 χ^2/NDF : 17689745.8/46

All: 176.126+/-0.022 χ^2/NDF : 36938248.7/86

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 105.708 $\pm$ 62.628 χ^2 /NDF: 21.0/18

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 95.578 $\pm$ 59.584 χ^2 /NDF: 25.2/21

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

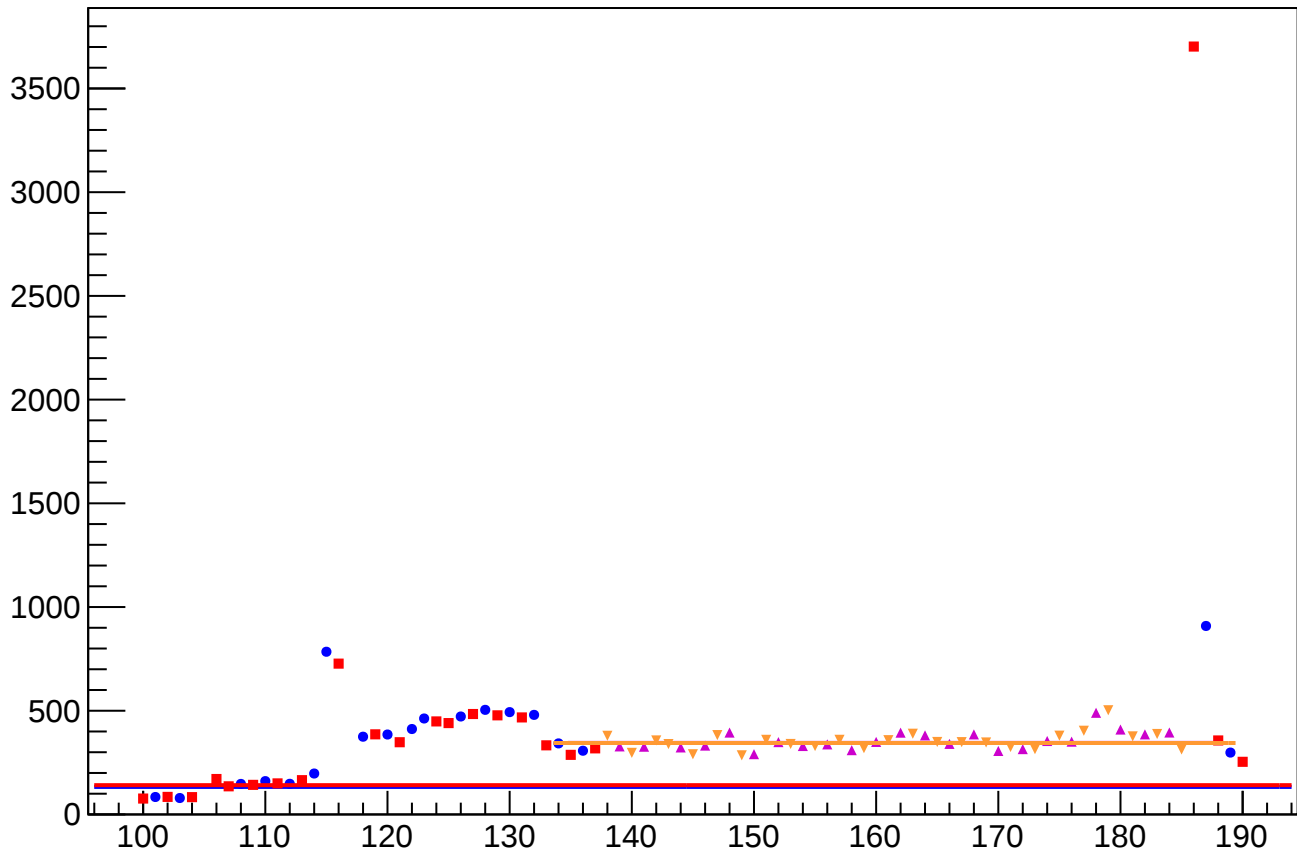
Right: 100.391 $\pm$ 43.168 χ^2 /NDF: 46.2/40

In: 43.894 $\pm$ 50.062 χ^2 /NDF:57.7/41

Out: 139.633 $\pm$ 48.001 χ^2 /NDF:46.4/46

All: 93.775 $\pm$ 34.648 χ^2 /NDF: 106.0/88

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 132.782 $\pm$ 0.044 χ^2 /NDF: 5217364.5/18

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 141.206 $\pm$ 0.042 χ^2 /NDF: 5800892.1/21

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF:427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

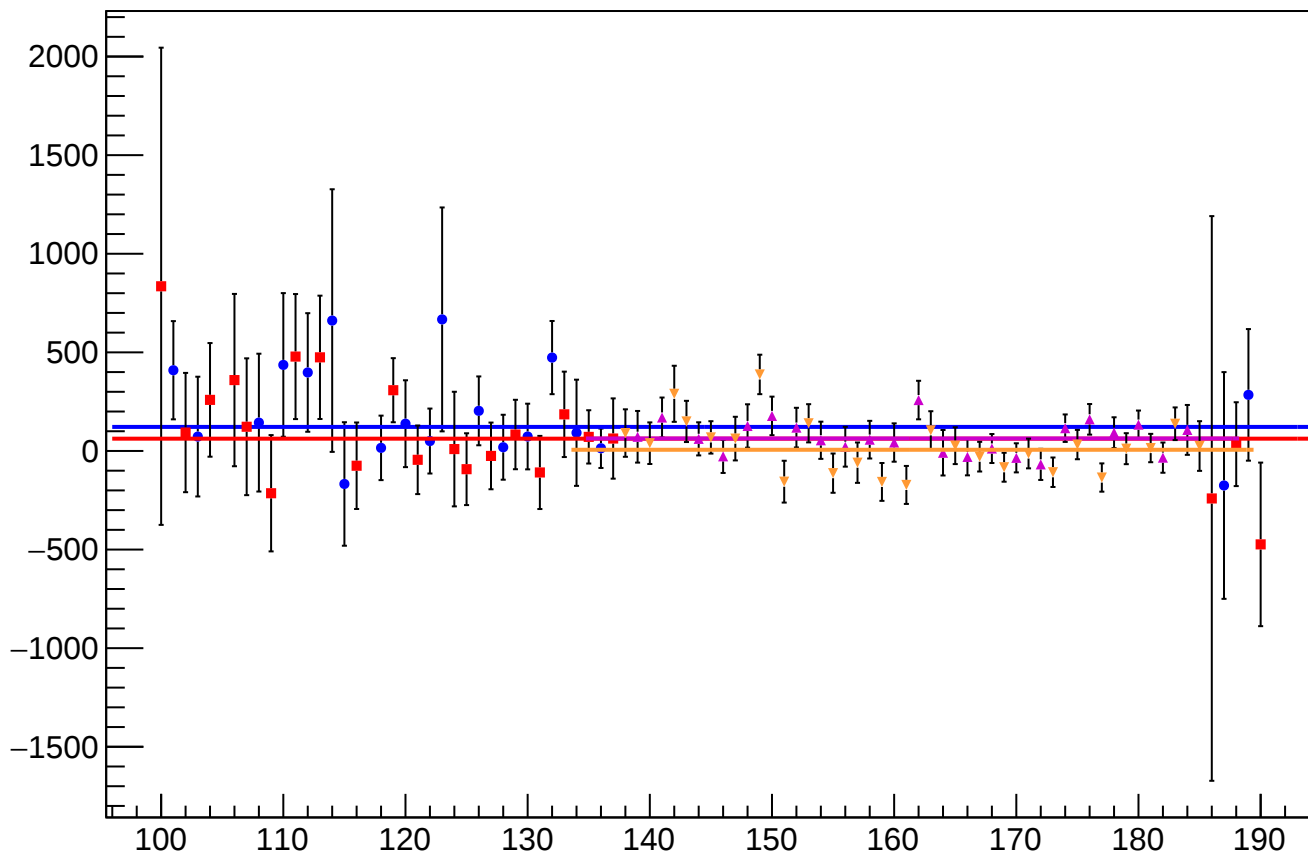
Right: 137.204 $\pm$ 0.031 χ^2 /NDF: 11037250.3/40

In: 209.412 $\pm$ 0.035 χ^2 /NDF:13938514.0/41

Out: 212.568 $\pm$ 0.034 χ^2 /NDF:14461968.8/46

All: 211.056 $\pm$ 0.024 χ^2 /NDF: 28404623.5/88

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 121.952 $\pm$ 48.501 χ^2 /NDF: 12.0/18

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 62.302 $\pm$ 48.358 χ^2 /NDF: 12.7/21

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

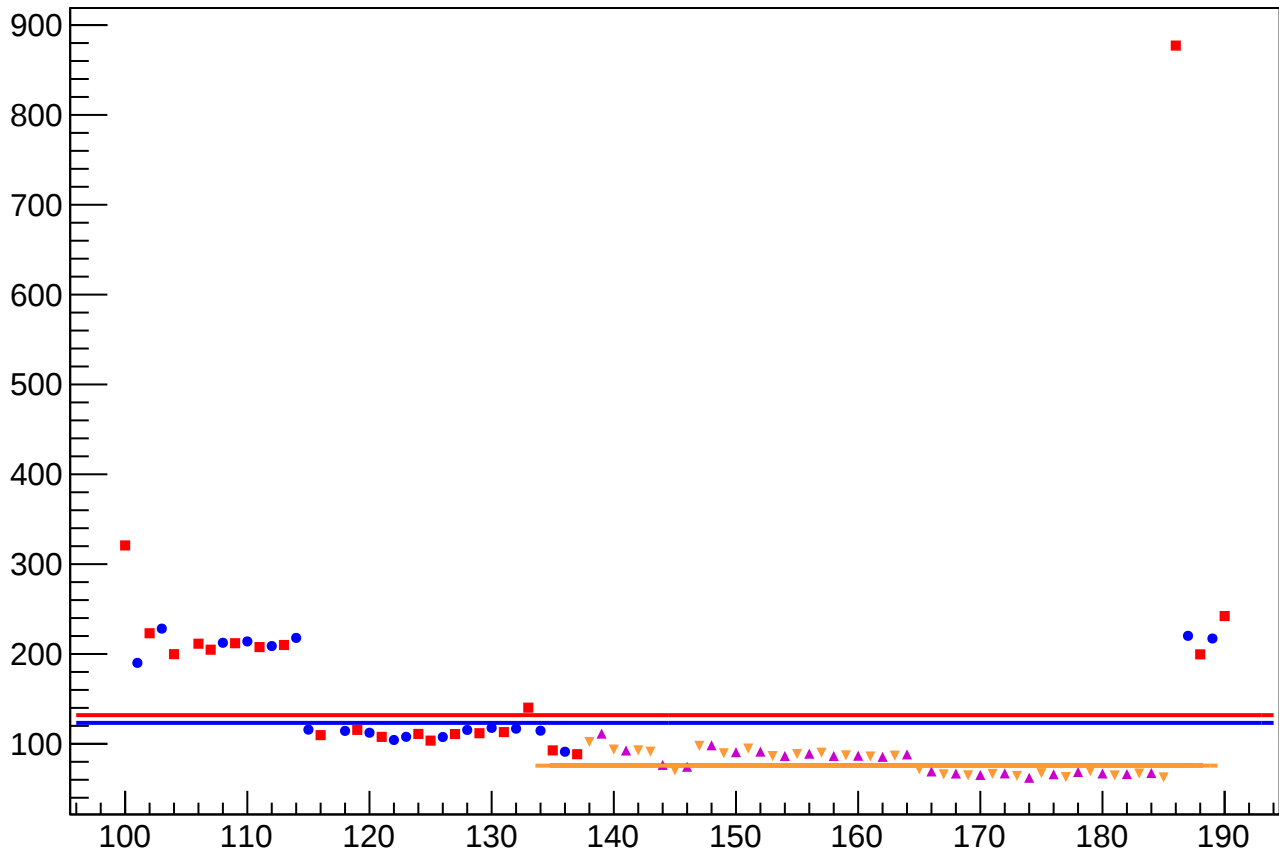
Right: 92.039 $\pm$ 34.245 χ^2 /NDF: 25.5/40

In: 70.694 $\pm$ 17.242 χ^2 /NDF:33.1/41

Out: 12.808 $\pm$ 16.795 χ^2 /NDF:59.9/46

All: 40.992 $\pm$ 12.031 χ^2 /NDF: 98.8/88

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 123.328 $\pm$ 0.034 χ^2 /NDF: 1328828.9/18

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 131.934 $\pm$ 0.034 χ^2 /NDF: 2246949.5/21

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

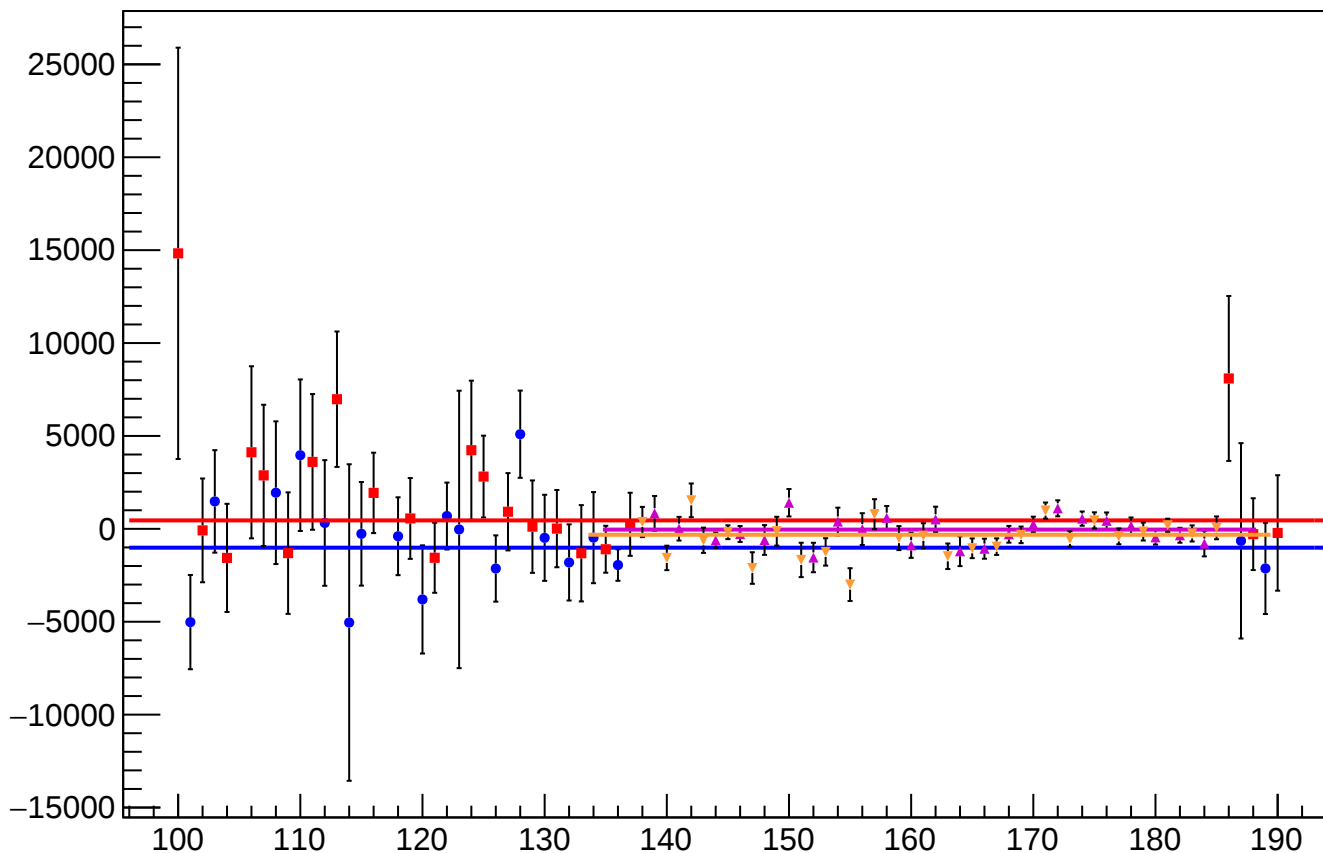
Right: 127.643 $\pm$ 0.024 χ^2 /NDF: 3607360.6/40

In: 81.902 $\pm$ 0.012 χ^2 /NDF:3830306.7/41

Out: 82.521 $\pm$ 0.012 χ^2 /NDF:5559445.4/46

All: 82.219 $\pm$ 0.009 χ^2 /NDF: 9391073.4/88

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1013.987 $\pm$ 500.257 χ^2 /NDF: 16.6/18

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 454.757 $\pm$ 515.244 χ^2 /NDF: 16.5/21

Left In: -40.473 $\pm$ 110.252 χ^2 /NDF:34.7/22

Left: -182.115 $\pm$ 77.156 χ^2 /NDF: 88.0/47

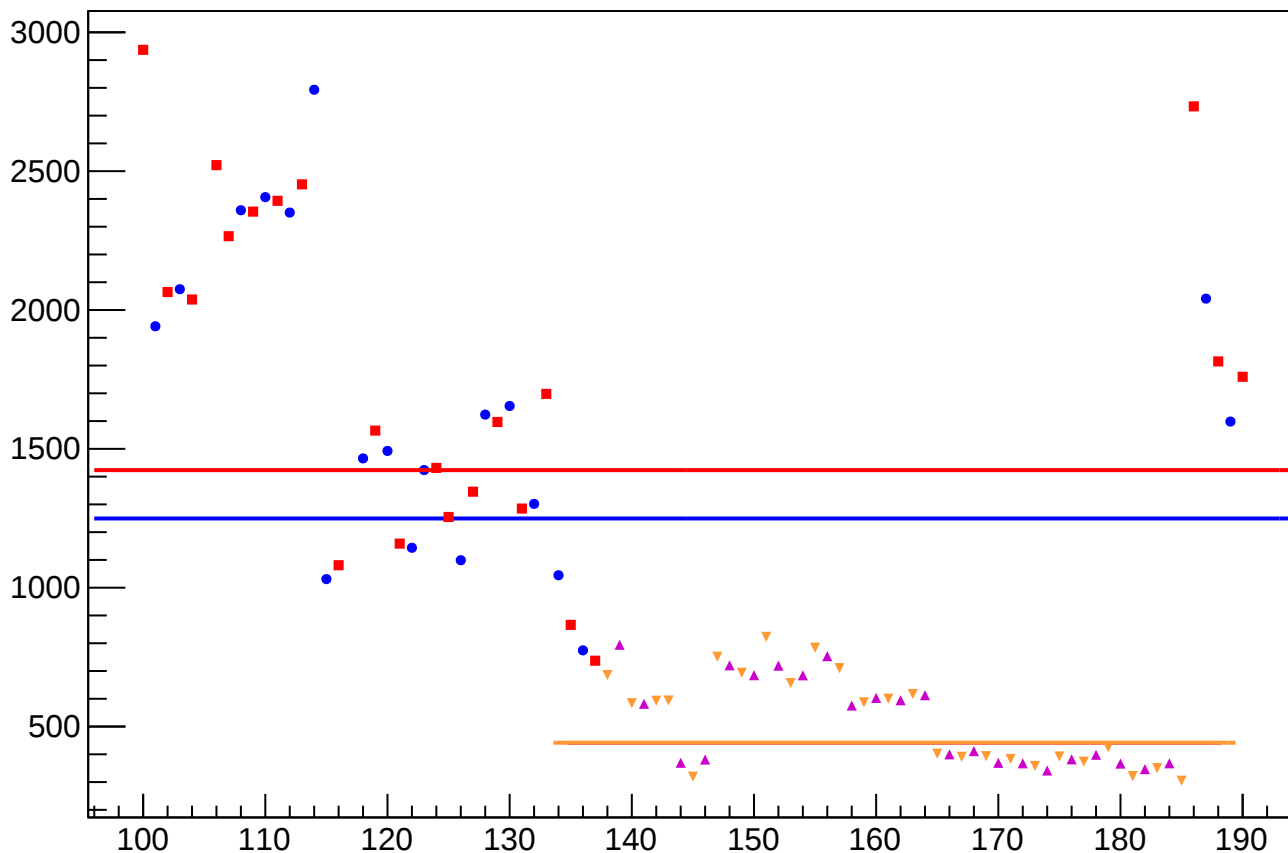
Right: -301.287 $\pm$ 358.916 χ^2 /NDF: 37.3/40

In: -85.568 $\pm$ 107.668 χ^2 /NDF:54.9/41

Out: -285.531 $\pm$ 105.716 χ^2 /NDF:68.7/46

All: -187.379 $\pm$ 75.433 χ^2 /NDF: 125.4/88

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1249.228+/-0.354 χ^2/NDF : 1844112.4/18

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1423.329+/-0.364 χ^2/NDF : 2054709.5/21

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

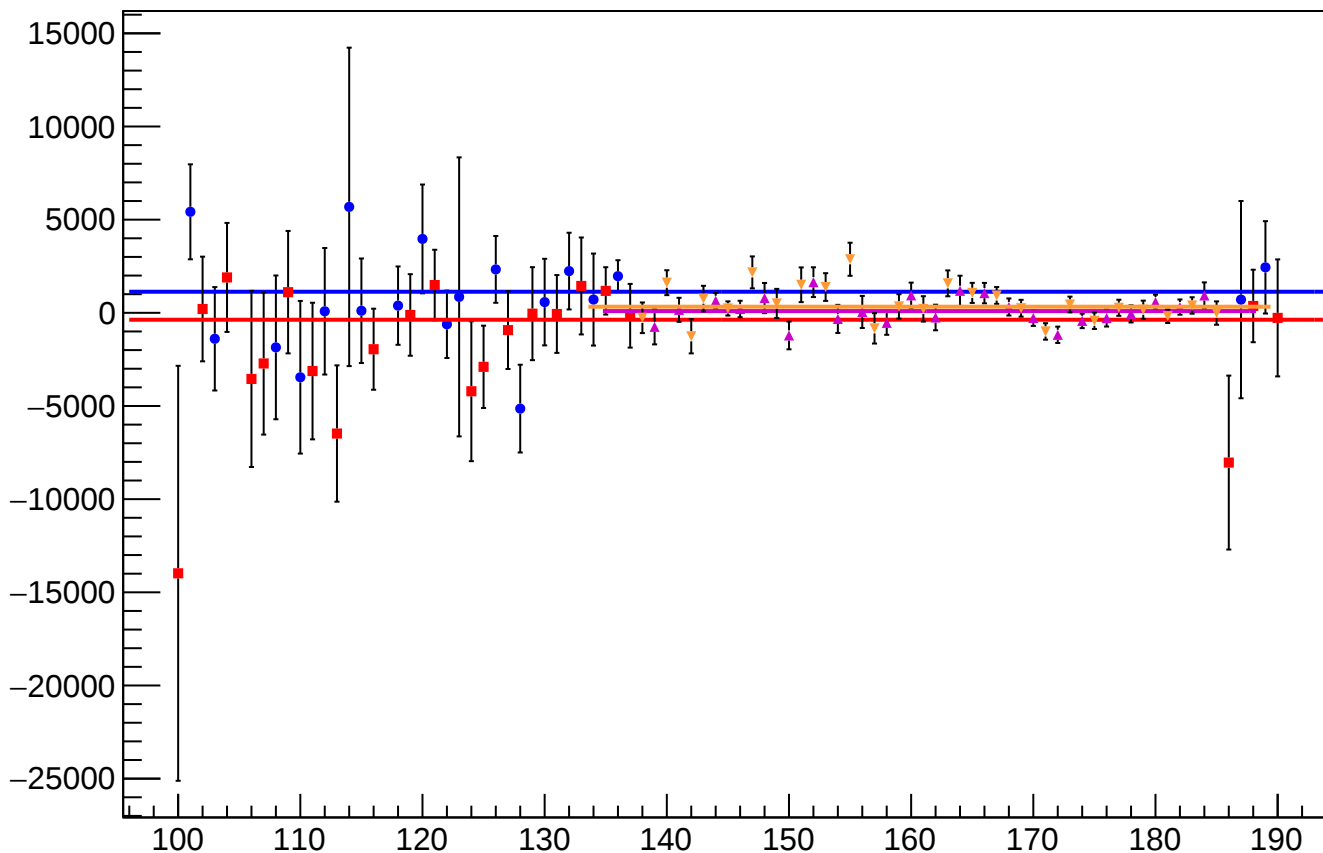
Right: 1333.710+/-0.254 χ^2/NDF : 4016368.1/40

In: 478.447+/-0.076 χ^2/NDF : 9419698.3/41

Out: 483.009+/-0.075 χ^2/NDF : 12177843.2/46

All: 480.770+/-0.053 χ^2/NDF : 21599369.3/88

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1131.704+/-503.200 χ^2/NDF : 17.2/18

Left Out: 328.599+/-109.668 χ^2/NDF : 47.7/24

Right Out: -371.294+/-518.343 χ^2/NDF : 15.3/21

Left In: 93.310+/-111.960 χ^2/NDF : 33.3/22

Left: 213.387+/-78.345 χ^2/NDF : 83.3/47

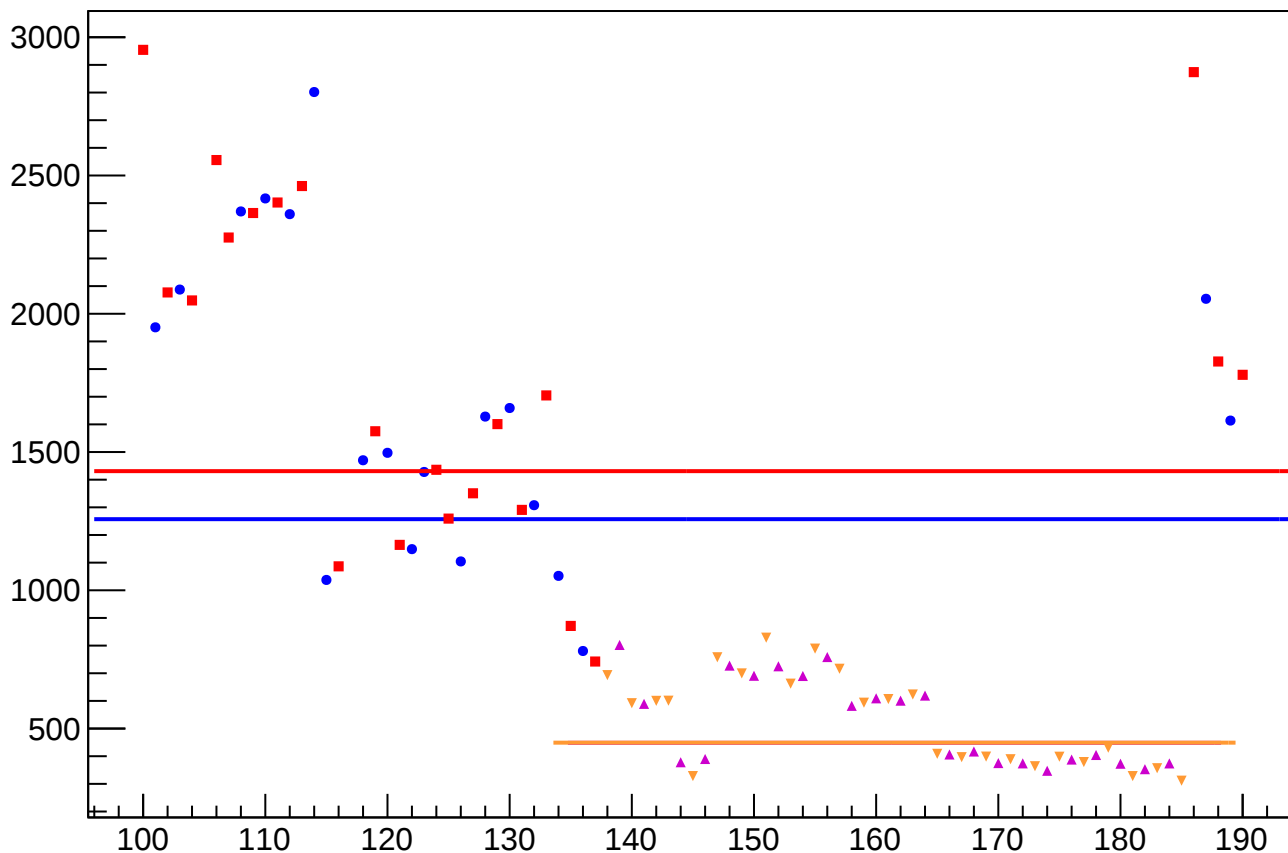
Right: 402.480+/-361.051 χ^2/NDF : 36.8/40

In: 142.291+/-109.287 χ^2/NDF : 54.6/41

Out: 298.611+/-107.293 χ^2/NDF : 64.8/46

All: 221.890+/-76.563 χ^2/NDF : 120.4/88

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1257.198 $\pm$ 0.356 χ^2/NDF : 1832709.3/18

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1430.881 $\pm$ 0.367 χ^2/NDF : 2069605.0/21

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

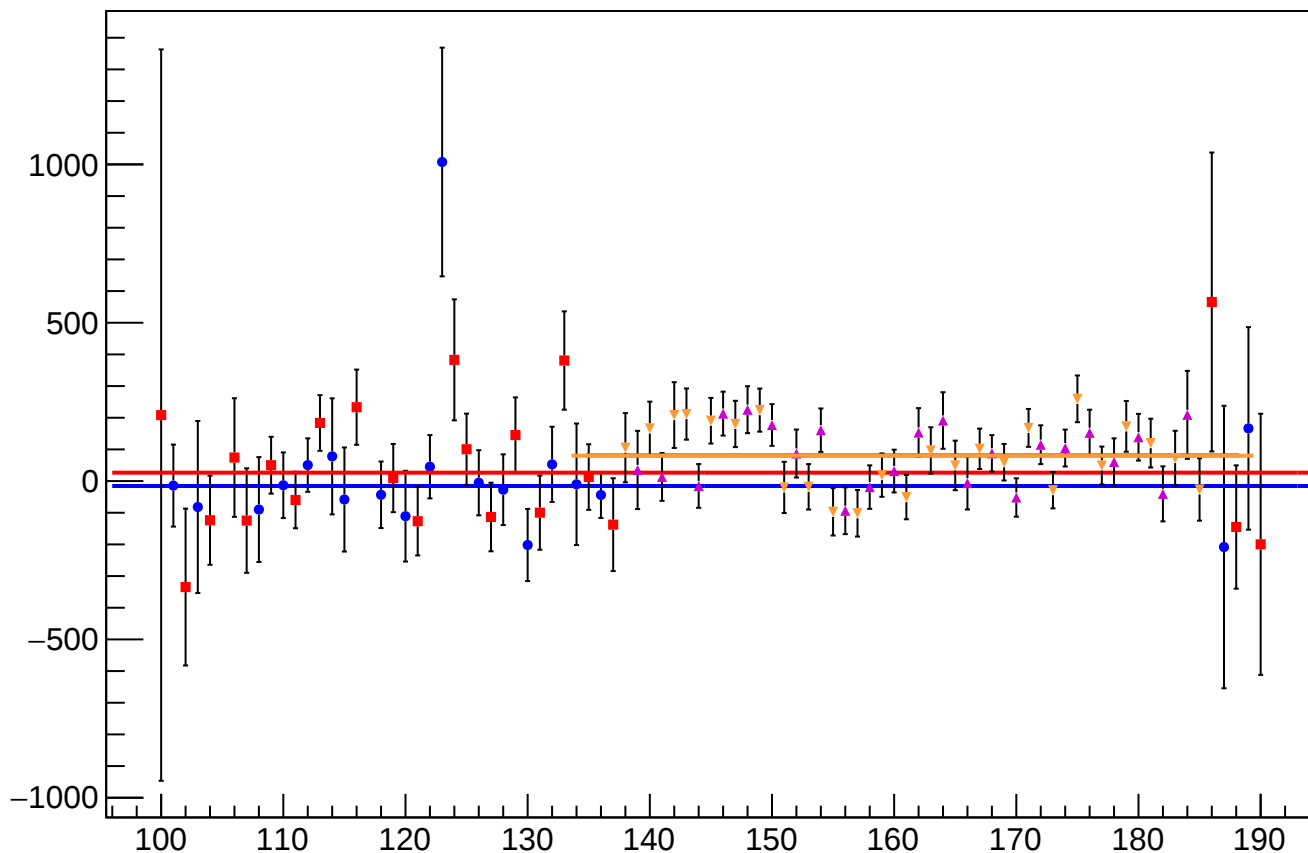
Right: 1341.466 $\pm$ 0.255 χ^2/NDF : 4017915.8/40

In: 486.462 $\pm$ 0.077 χ^2/NDF : 9294392.2/41

Out: 491.085 $\pm$ 0.076 χ^2/NDF : 12028878.2/46

All: 488.816 $\pm$ 0.054 χ^2/NDF : 21325093.2/88

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -15.527 ± 28.729 χ^2/NDF : 13.8/18

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 26.572 ± 27.653 χ^2/NDF : 30.0/21

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

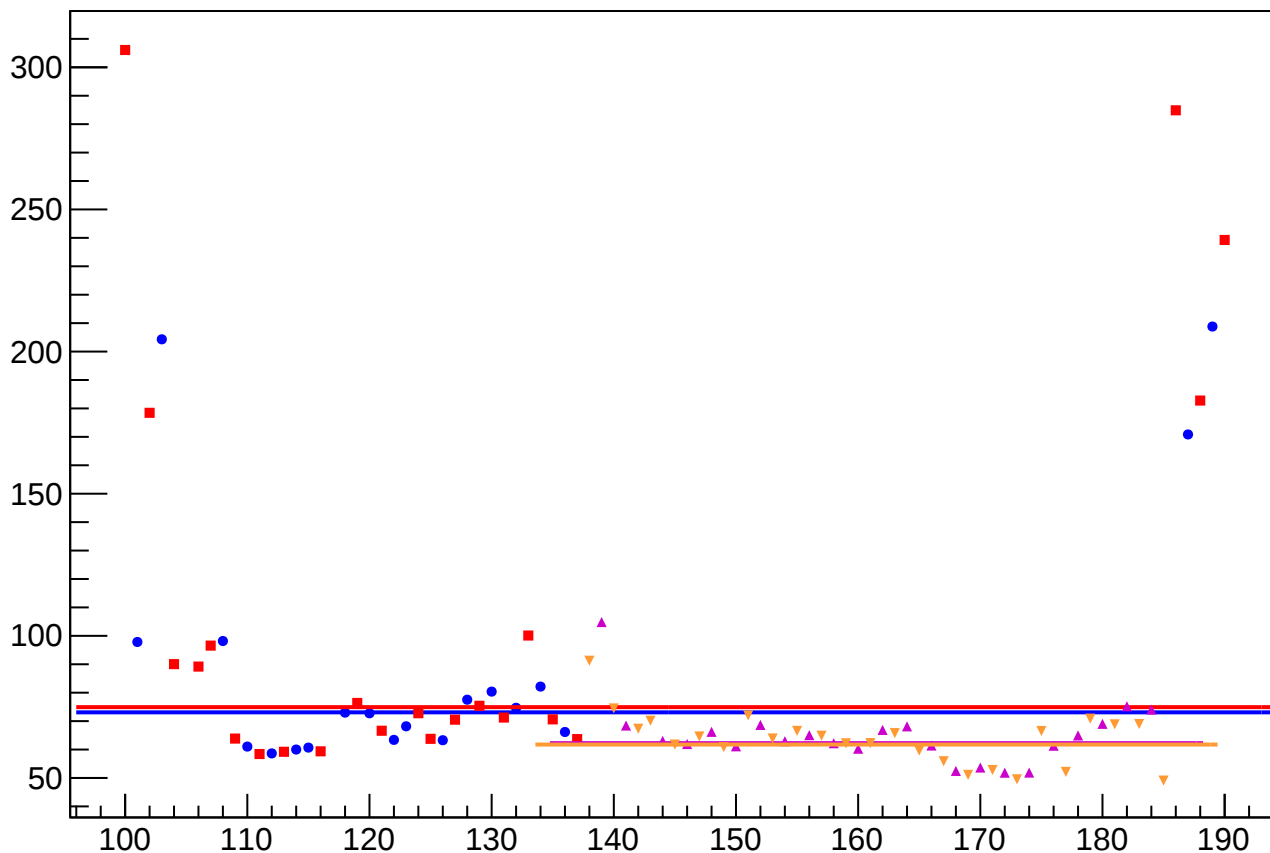
Right: 6.326 ± 19.923 χ^2/NDF : 45.0/40

In: 60.217 ± 13.370 χ^2/NDF : 58.0/41

Out: 68.496 ± 12.906 χ^2/NDF : 81.5/46

All: 64.503 ± 9.285 χ^2/NDF : 139.7/88

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 73.086 $\pm$ 0.020 χ^2 /NDF: 1220513.8/18

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 74.913 $\pm$ 0.020 χ^2 /NDF: 2127974.6/21

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

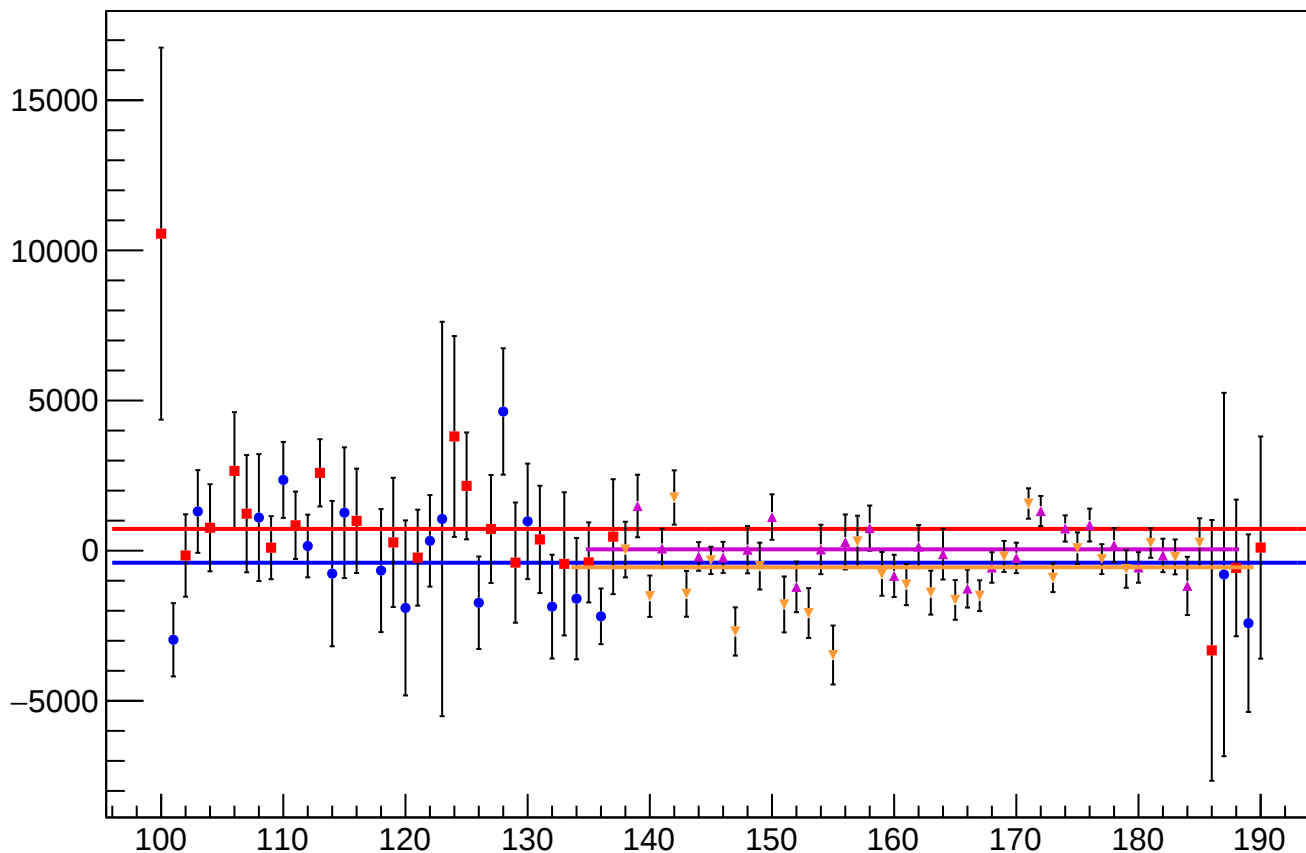
Right: 74.035 $\pm$ 0.014 χ^2 /NDF: 3352687.7/40

In: 64.597 $\pm$ 0.009 χ^2 /NDF: 2034511.0/41

Out: 64.626 $\pm$ 0.009 χ^2 /NDF: 3127394.4/46

All: 64.612 $\pm$ 0.007 χ^2 /NDF: 5161910.2/88

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -401.078 ± 379.061 $\chi^2/\text{NDF}: 24.9/18$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 724.614 ± 362.683 $\chi^2/\text{NDF}: 11.6/21$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

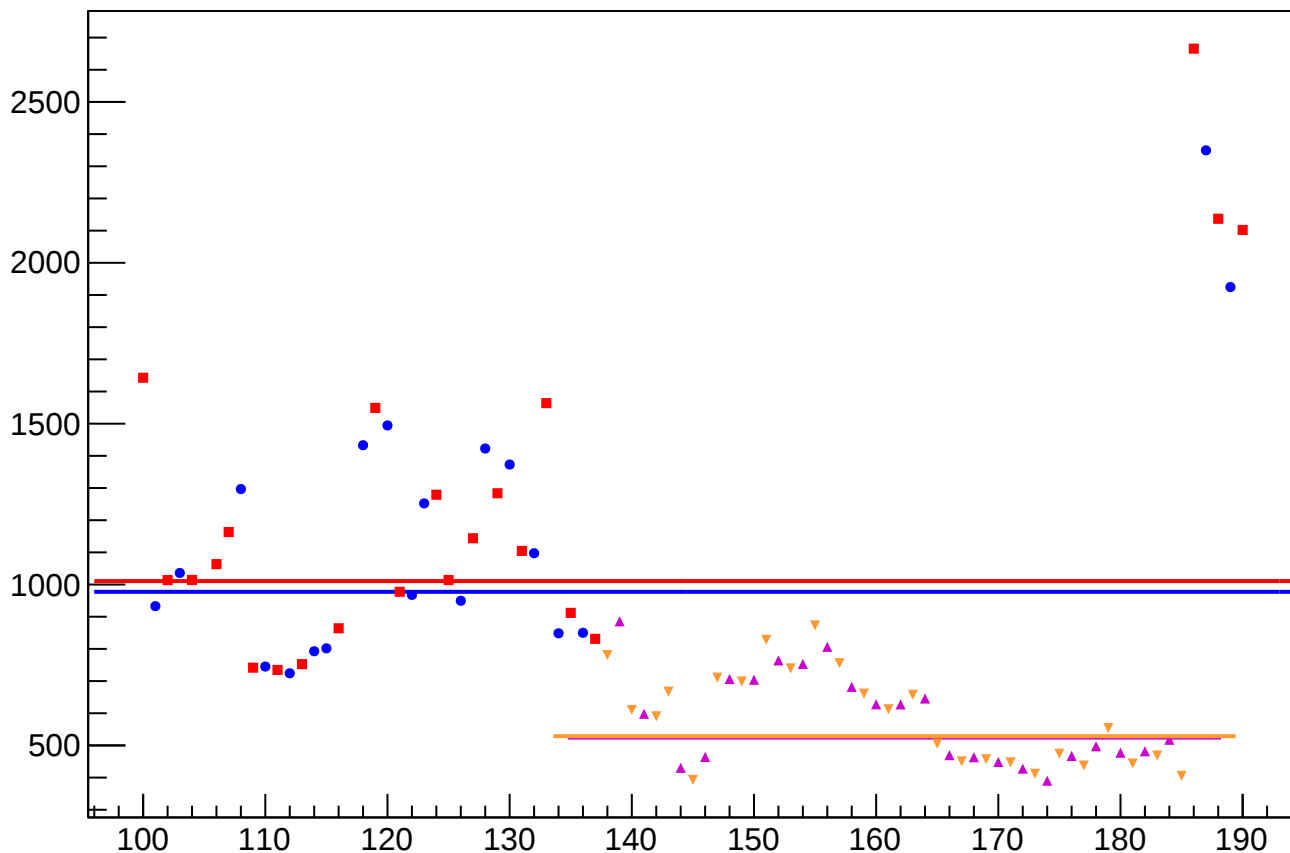
Right: 186.610 ± 262.054 $\chi^2/\text{NDF}: 41.1/40$

In: -1.739 ± 122.202 $\chi^2/\text{NDF}: 55.7/41$

Out: -413.055 ± 119.848 $\chi^2/\text{NDF}: 87.9/46$

All: -211.397 ± 85.565 $\chi^2/\text{NDF}: 149.4/88$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 977.428+/-0.268 χ^2/NDF : 965926.9/18

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1010.827+/-0.256 χ^2/NDF : 1690778.5/21

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

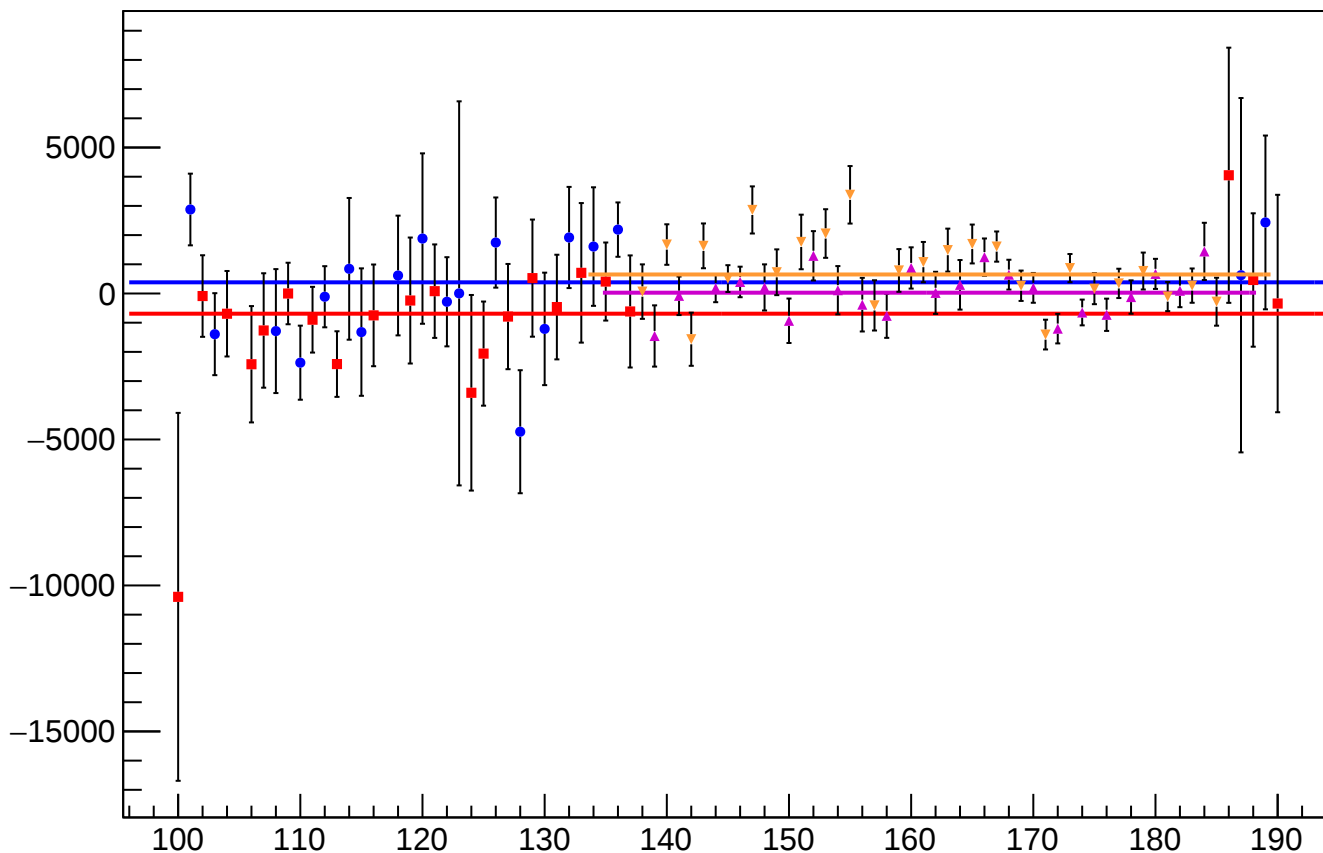
Right: 994.865+/-0.185 χ^2/NDF : 2664811.6/40

In: 571.365+/-0.086 χ^2/NDF : 5243464.5/41

Out: 581.378+/-0.085 χ^2/NDF : 6822337.5/46

All: 576.469+/-0.061 χ^2/NDF : 12072646.5/88

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 382.423+/-380.790 χ^2/NDF : 25.1/18

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -691.833+/-364.517 χ^2/NDF : 10.6/21

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

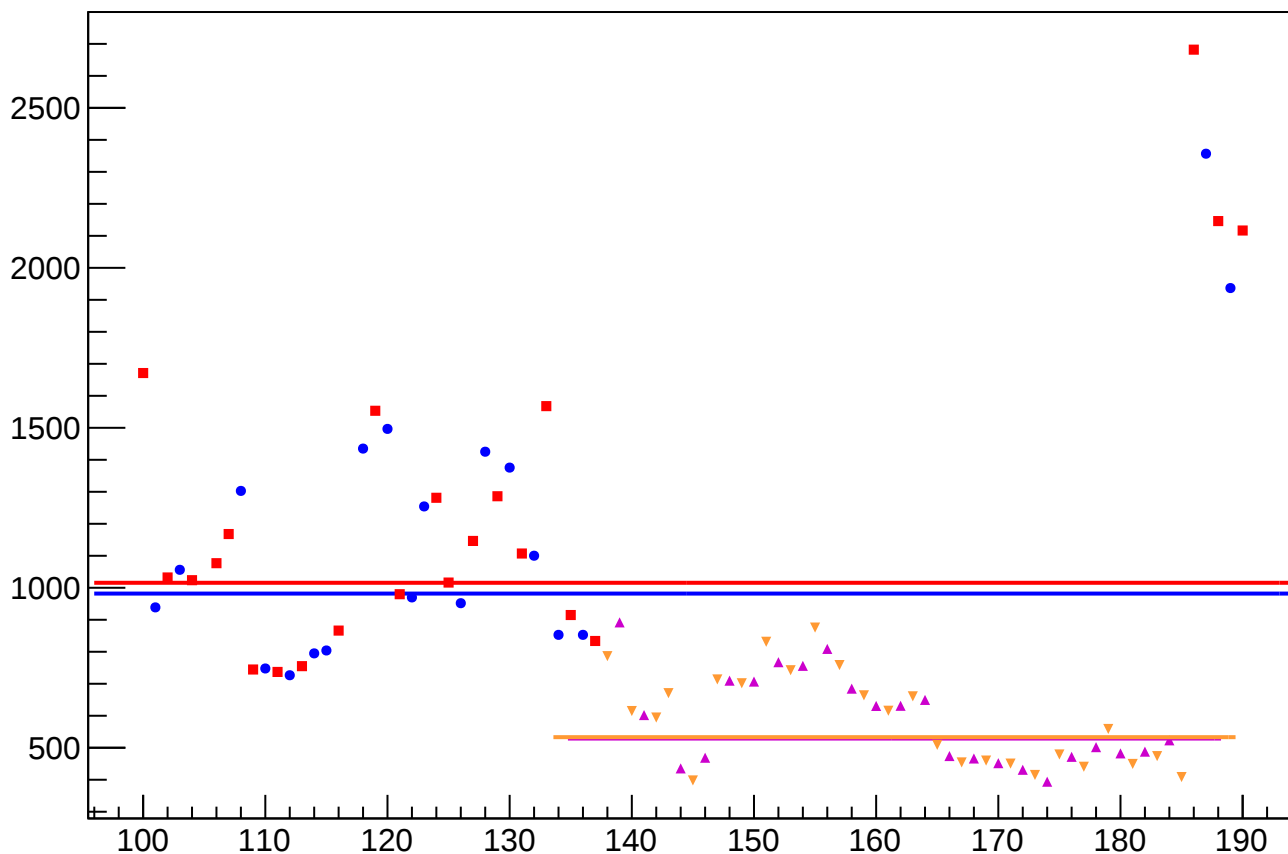
Right: -178.149+/-263.318 χ^2/NDF : 39.9/40

In: 64.598+/-123.135 χ^2/NDF : 54.4/41

Out: 504.175+/-120.738 χ^2/NDF : 83.8/46

All: 288.708+/-86.210 χ^2/NDF : 144.7/88

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 981.882 $\pm$ 0.269 χ^2 /NDF: 966544.4/18

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1015.592 $\pm$ 0.258 χ^2 /NDF: 1694469.4/21

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

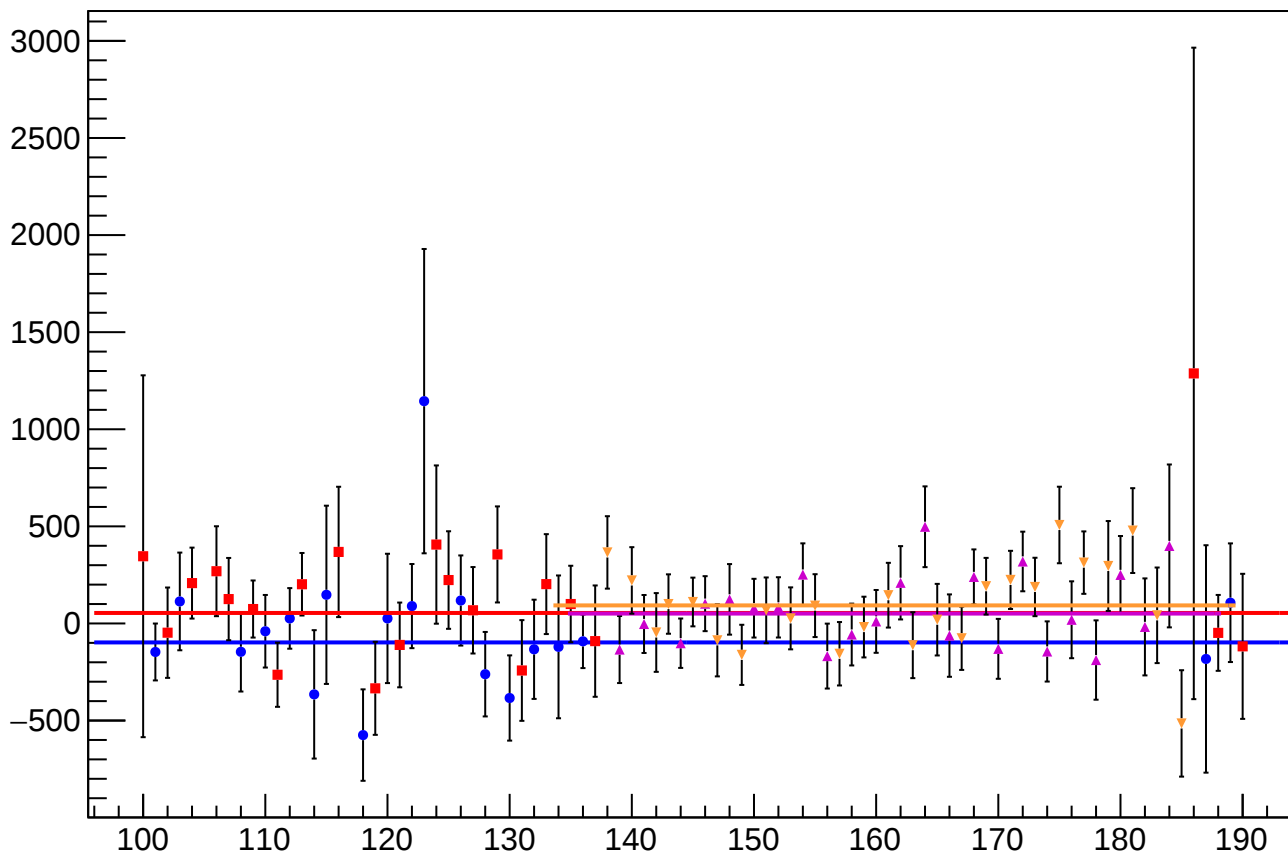
Right: 999.473 $\pm$ 0.186 χ^2 /NDF: 2669192.8/40

In: 576.083 $\pm$ 0.087 χ^2 /NDF: 5191638.9/41

Out: 585.999 $\pm$ 0.085 χ^2 /NDF: 6766169.2/46

All: 581.138 $\pm$ 0.061 χ^2 /NDF: 11964421.6/88

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -97.721 ± 52.035 χ^2/NDF : 13.7/18

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 54.055 ± 48.832 χ^2/NDF : 16.3/21

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

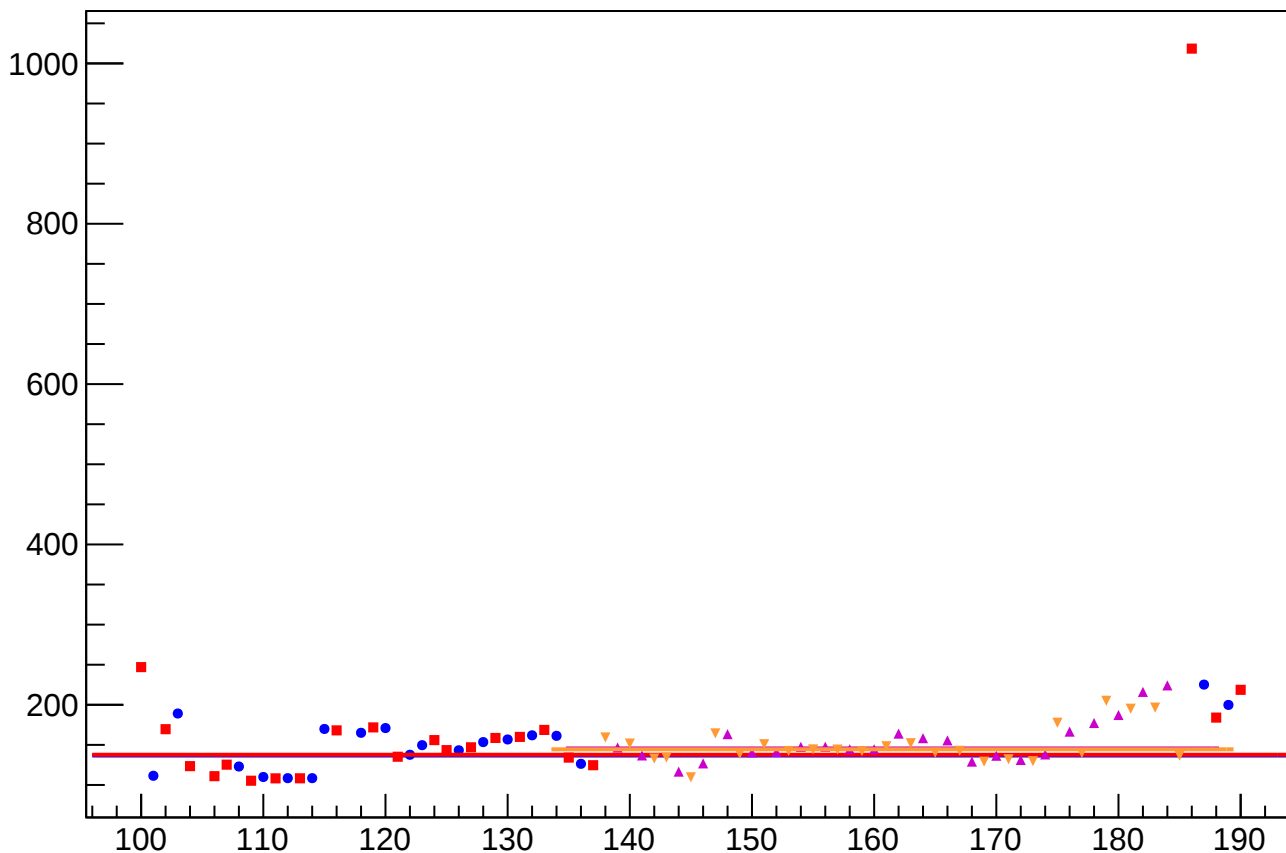
Right: -17.020 ± 35.608 χ^2/NDF : 34.5/40

In: 4.093 ± 29.201 χ^2/NDF : 42.7/41

Out: 80.253 ± 27.932 χ^2/NDF : 46.1/46

All: 43.863 ± 20.185 χ^2/NDF : 92.4/88

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 136.747 $\pm$ 0.037 χ^2 /NDF: 538285.4/18

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 137.702 $\pm$ 0.035 χ^2 /NDF: 1224369.2/21

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

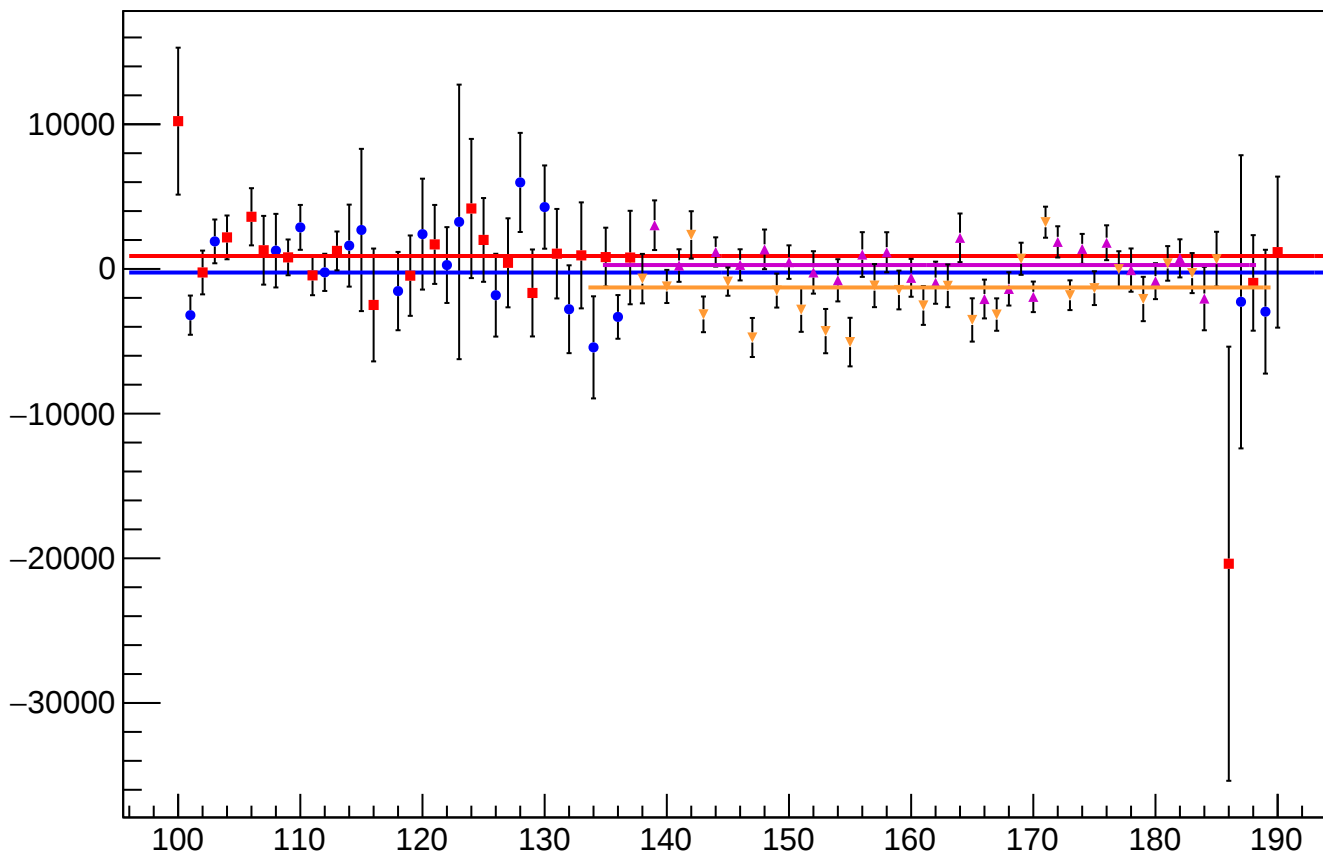
Right: 137.255 $\pm$ 0.025 χ^2 /NDF: 1763012.7/40

In: 142.767 $\pm$ 0.021 χ^2 /NDF: 1220889.4/41

Out: 142.259 $\pm$ 0.020 χ^2 /NDF: 1920745.0/46

All: 142.502 $\pm$ 0.014 χ^2 /NDF: 3141950.8/88

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -247.894 ± 520.296 χ^2/NDF : 26.2/18

Left Out: -1279.328 ± 259.299 χ^2/NDF : 55.9/24

Right Out: 894.617 ± 474.325 χ^2/NDF : 12.4/21

Left In: 269.952 ± 266.245 χ^2/NDF : 24.3/22

Left: -525.161 ± 185.759 χ^2/NDF : 97.6/47

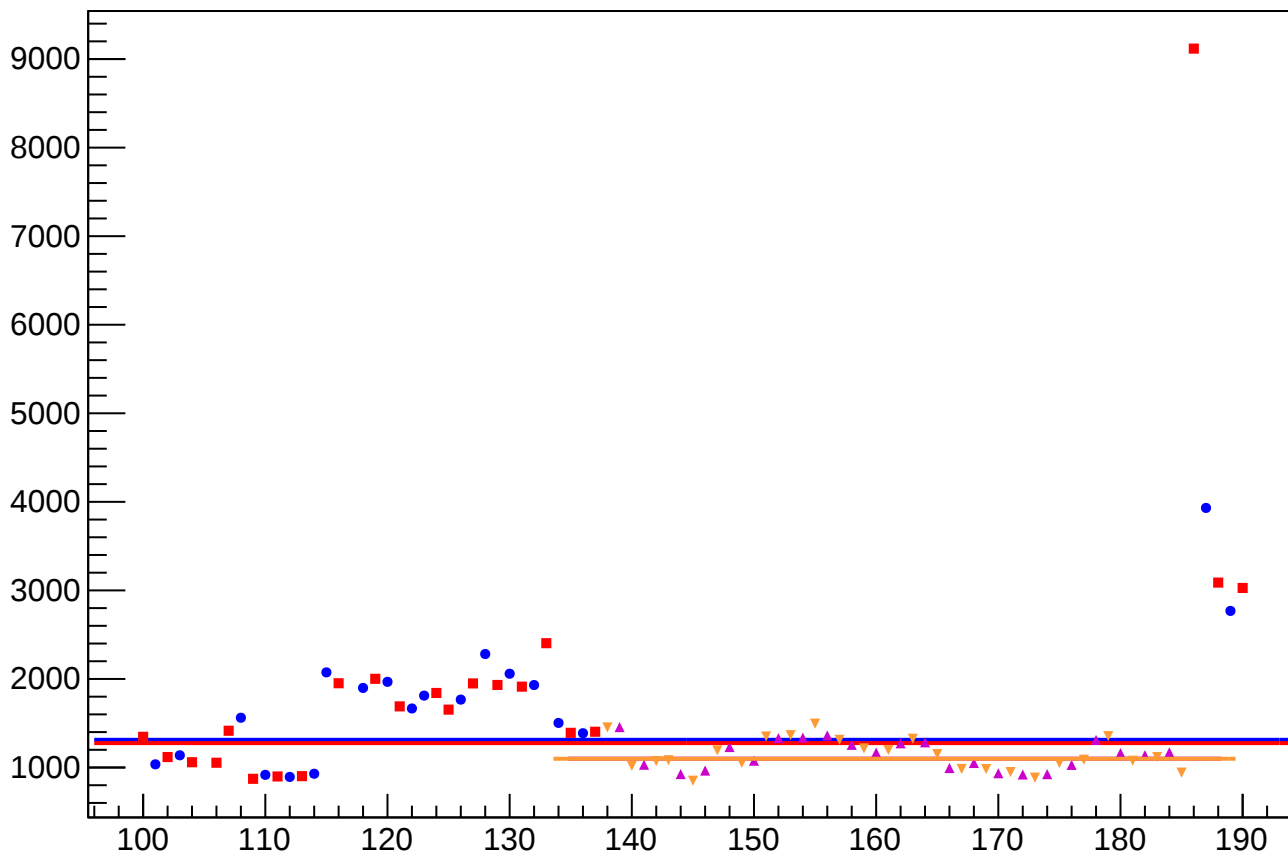
Right: 376.056 ± 350.526 χ^2/NDF : 41.2/40

In: 162.491 ± 237.016 χ^2/NDF : 51.3/41

Out: -779.131 ± 227.521 χ^2/NDF : 84.5/46

All: -327.558 ± 164.136 χ^2/NDF : 144.0/88

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1312.812 $\pm$ 0.368 χ^2 /NDF: 1542768.9/18

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1275.704 $\pm$ 0.335 χ^2 /NDF: 2767825.0/21

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

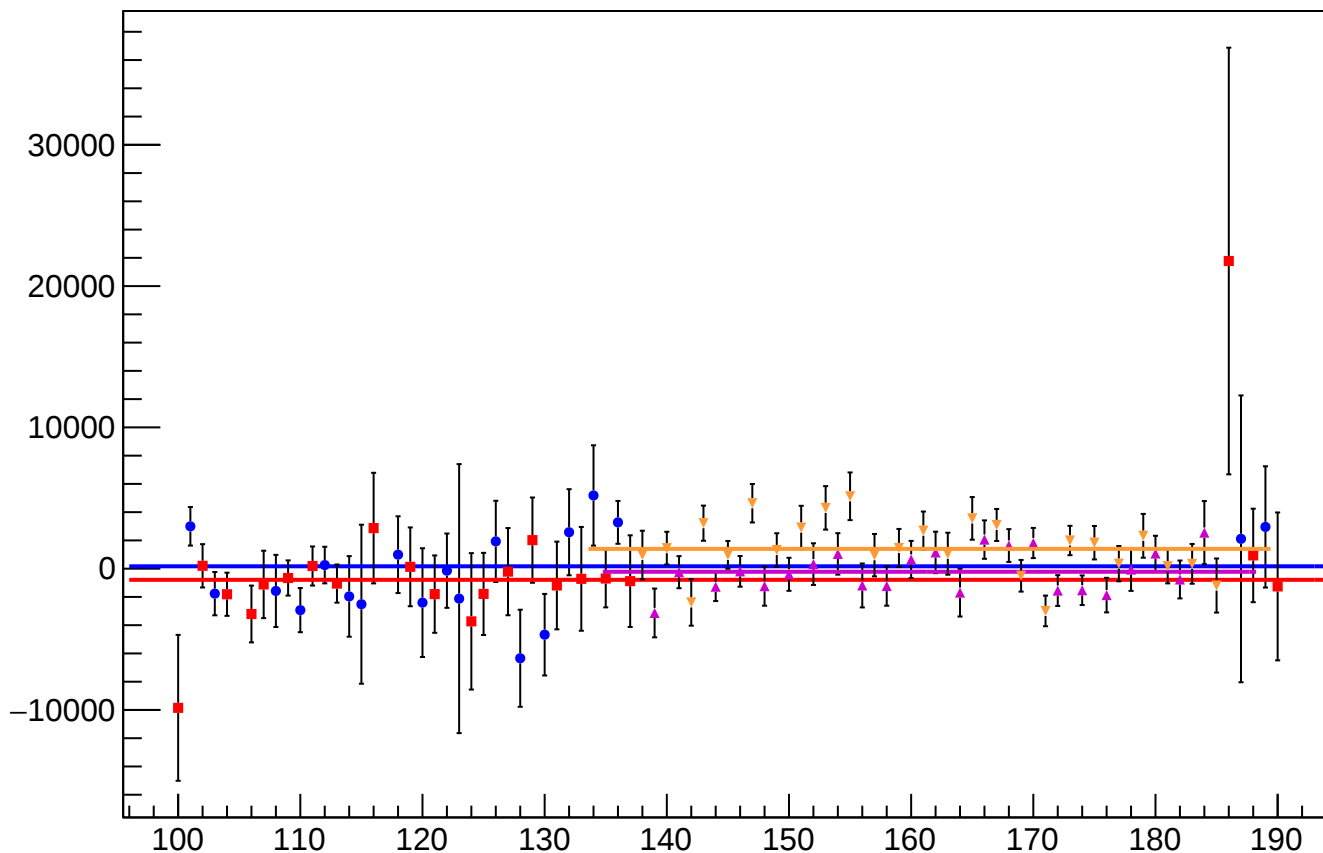
Right: 1292.547 $\pm$ 0.248 χ^2 /NDF: 4316149.9/40

In: 1143.833 $\pm$ 0.168 χ^2 /NDF: 2488862.8/41

Out: 1139.587 $\pm$ 0.161 χ^2 /NDF: 3806078.0/46

All: 1141.623 $\pm$ 0.116 χ^2 /NDF: 6295274.8/88

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 167.730 $\pm$ 523.647 χ^2 /NDF: 25.8/18

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF: 52.2/24

Right Out: -788.636 $\pm$ 477.880 χ^2 /NDF: 11.0/21

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

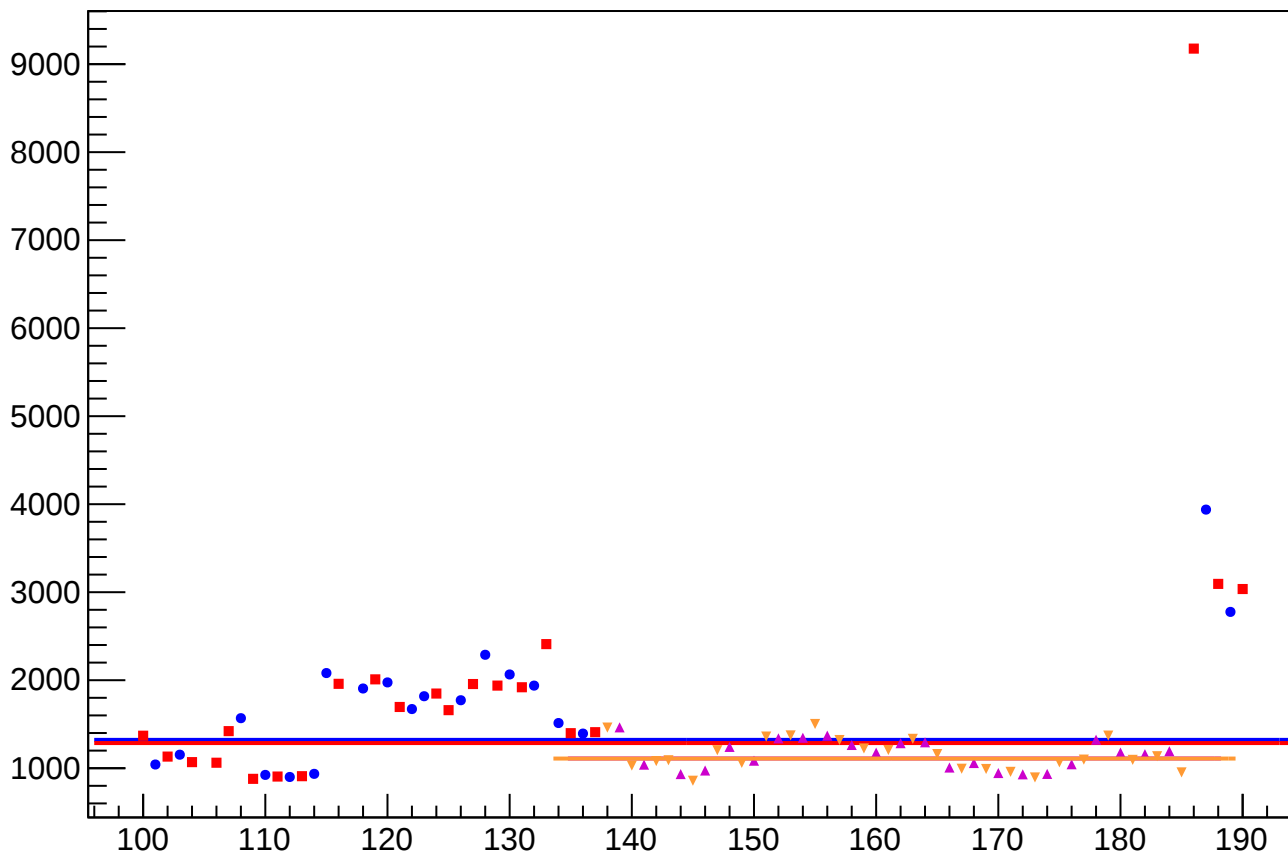
Right: -354.065 $\pm$ 352.986 χ^2 /NDF: 38.6/40

In: -138.634 $\pm$ 239.171 χ^2 /NDF: 51.2/41

Out: 895.109 $\pm$ 229.605 χ^2 /NDF: 79.4/46

All: 399.322 $\pm$ 165.634 χ^2 /NDF: 140.3/88

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1322.125+/-0.370 χ^2/NDF : 1527429.9/18

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1285.816+/-0.338 χ^2/NDF : 2746068.4/21

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

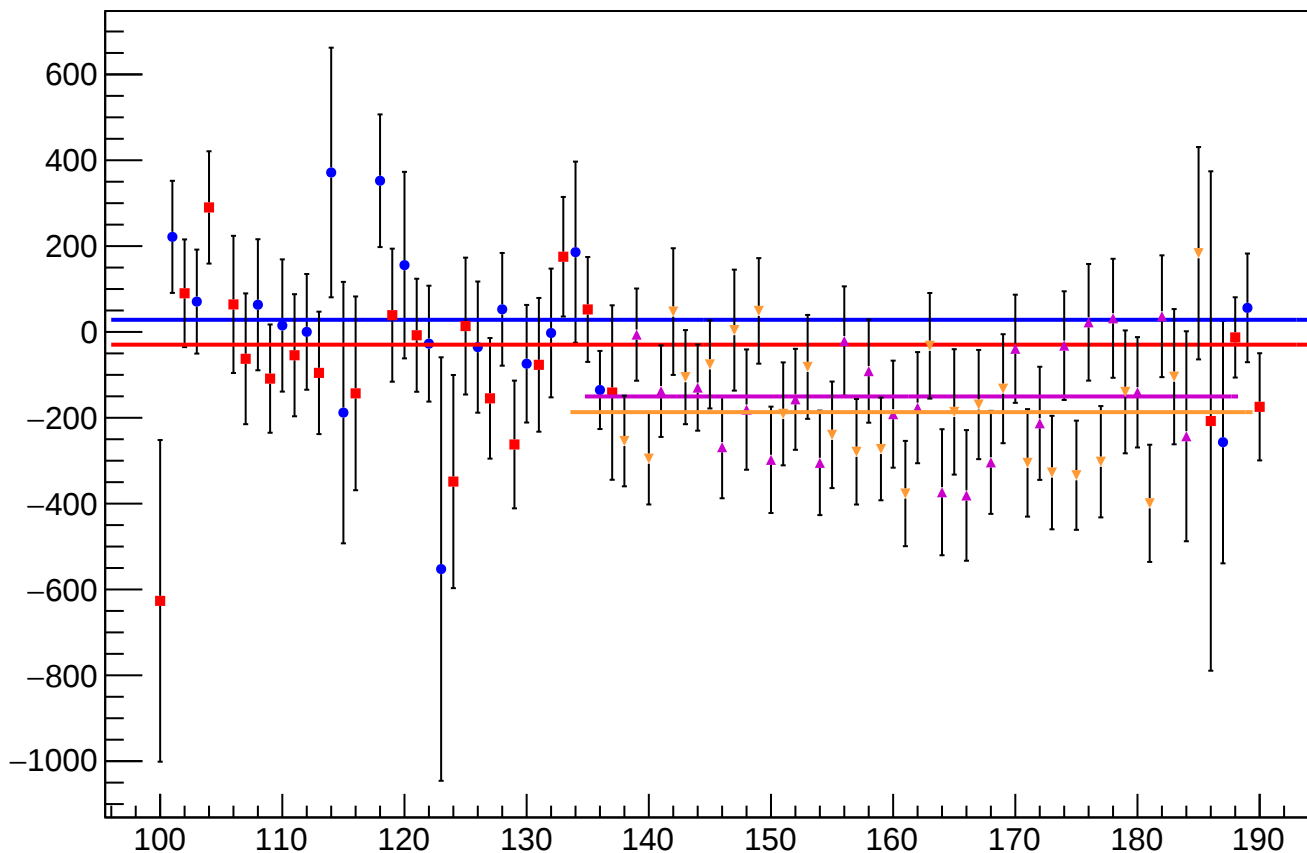
Right: 1302.315+/-0.250 χ^2/NDF : 4278744.6/40

In: 1154.681+/-0.169 χ^2/NDF : 2455766.8/41

Out: 1150.403+/-0.162 χ^2/NDF : 3767029.1/46

All: 1152.455+/-0.117 χ^2/NDF : 6223128.8/88

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected

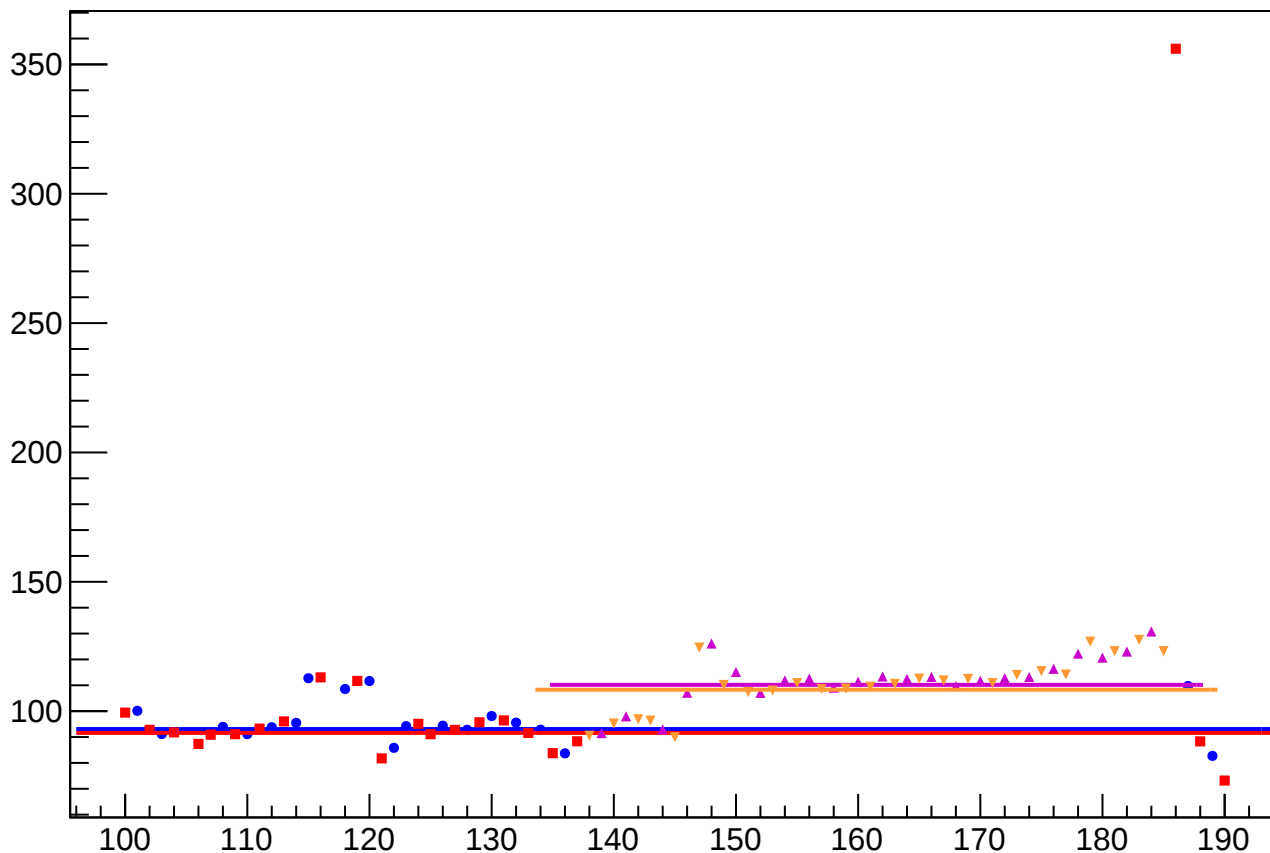


Right In: 28.294 ± 34.749 $\chi^2/\text{NDF}: 16.3/18$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -29.642 ± 31.491 $\chi^2/\text{NDF}: 20.4/21$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: -3.517 ± 23.334 $\chi^2/\text{NDF}: 38.2/40$
 In: -84.809 ± 21.044 $\chi^2/\text{NDF}: 53.7/41$
 Out: -125.151 ± 19.727 $\chi^2/\text{NDF}: 62.1/46$

All: -106.282 ± 14.392 $\chi^2/\text{NDF}: 117.7/88$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 93.088+/-0.025 χ^2/NDF : 100789.6/18

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 91.606+/-0.022 χ^2/NDF : 539610.8/21

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

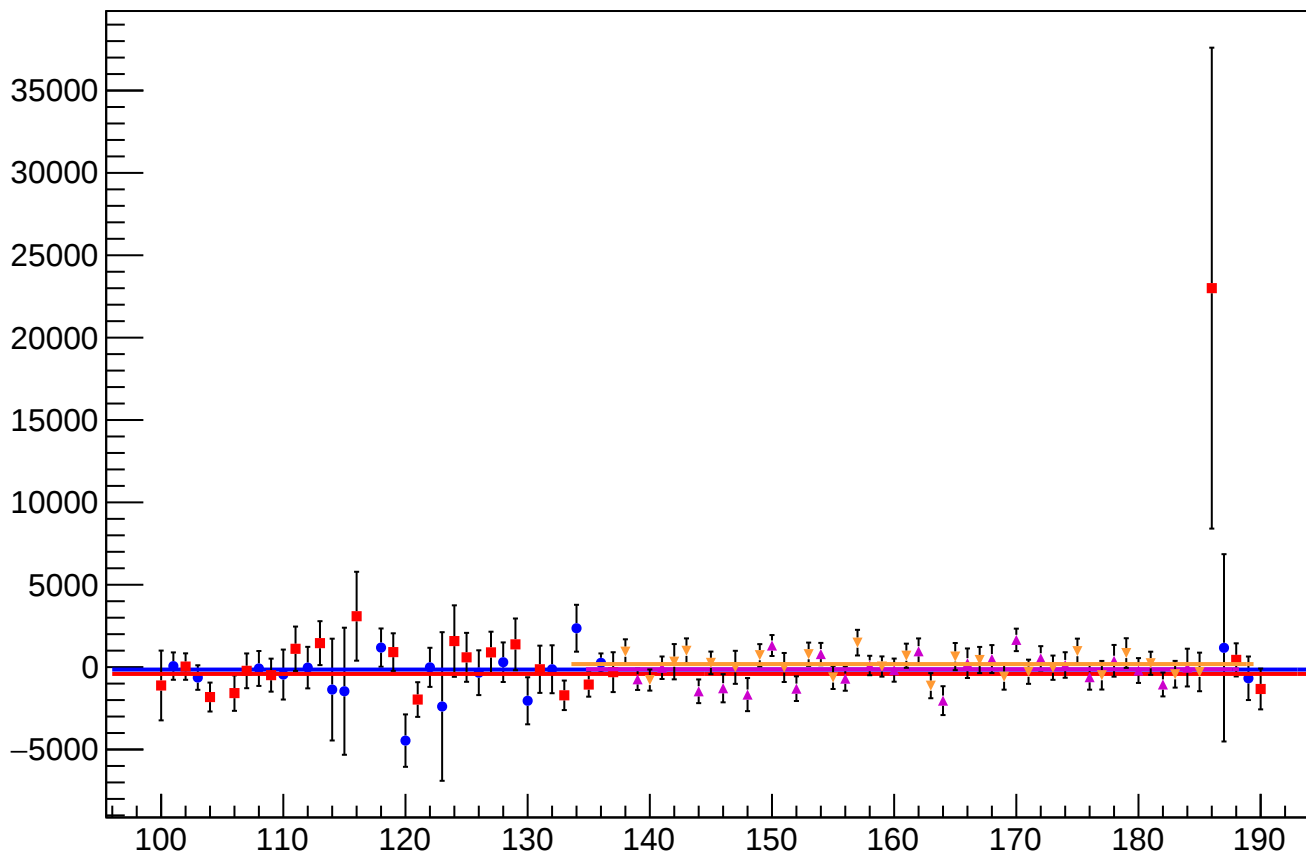
Right: 92.274+/-0.016 χ^2/NDF : 642398.3/40

In: 103.907+/-0.015 χ^2/NDF : 653931.3/41

Out: 101.741+/-0.014 χ^2/NDF : 1211301.7/46

All: 102.754+/-0.010 χ^2/NDF : 1876509.4/88

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -148.110 ± 270.864 χ^2/NDF : 15.5/18

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -413.758 ± 247.222 χ^2/NDF : 23.1/21

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

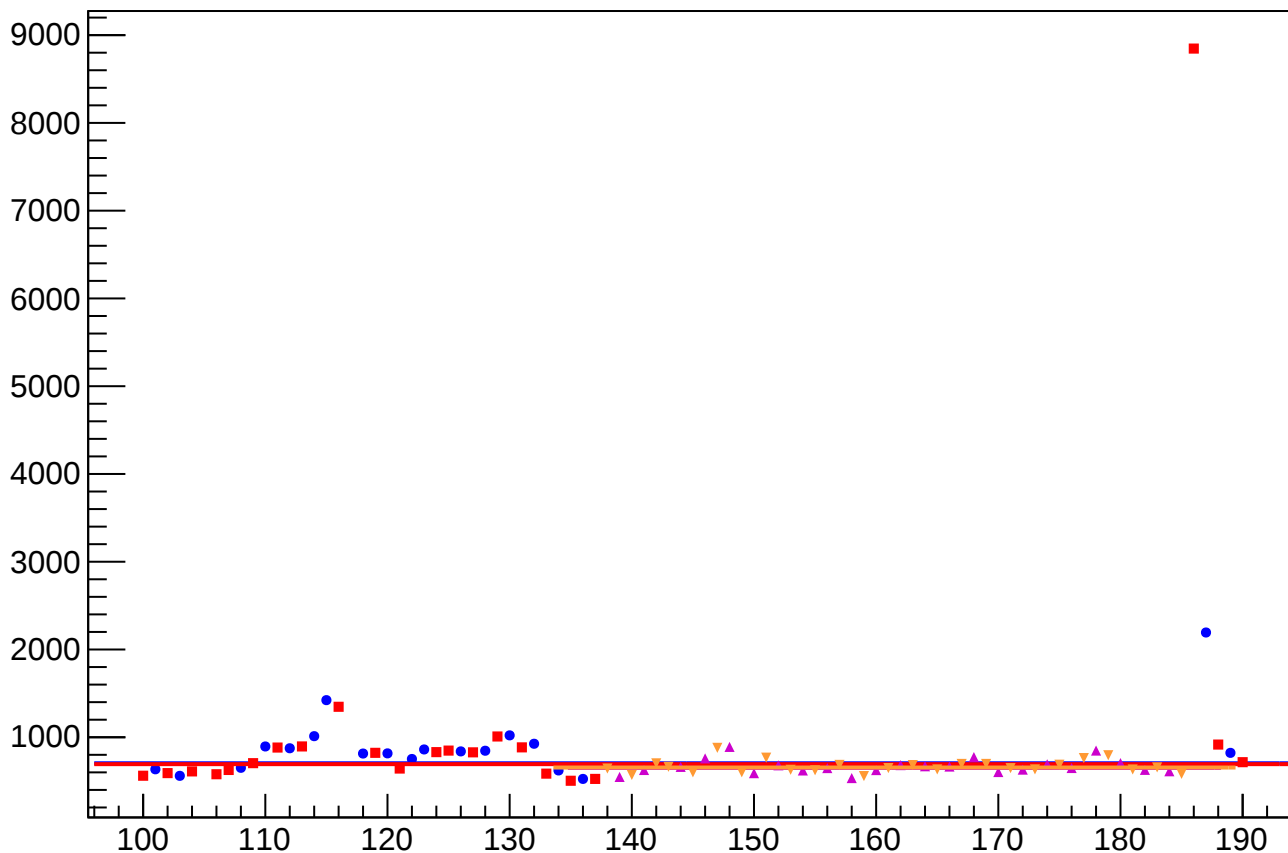
Right: -293.031 ± 182.600 χ^2/NDF : 39.1/40

In: -133.650 ± 135.932 χ^2/NDF : 51.7/41

Out: 18.394 ± 130.520 χ^2/NDF : 45.7/46

All: -54.541 ± 94.147 χ^2/NDF : 98.0/88

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 703.566 $\pm$ 0.192 χ^2 /NDF: 833420.4/18

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 693.597 $\pm$ 0.175 χ^2 /NDF: 1413165.7/21

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

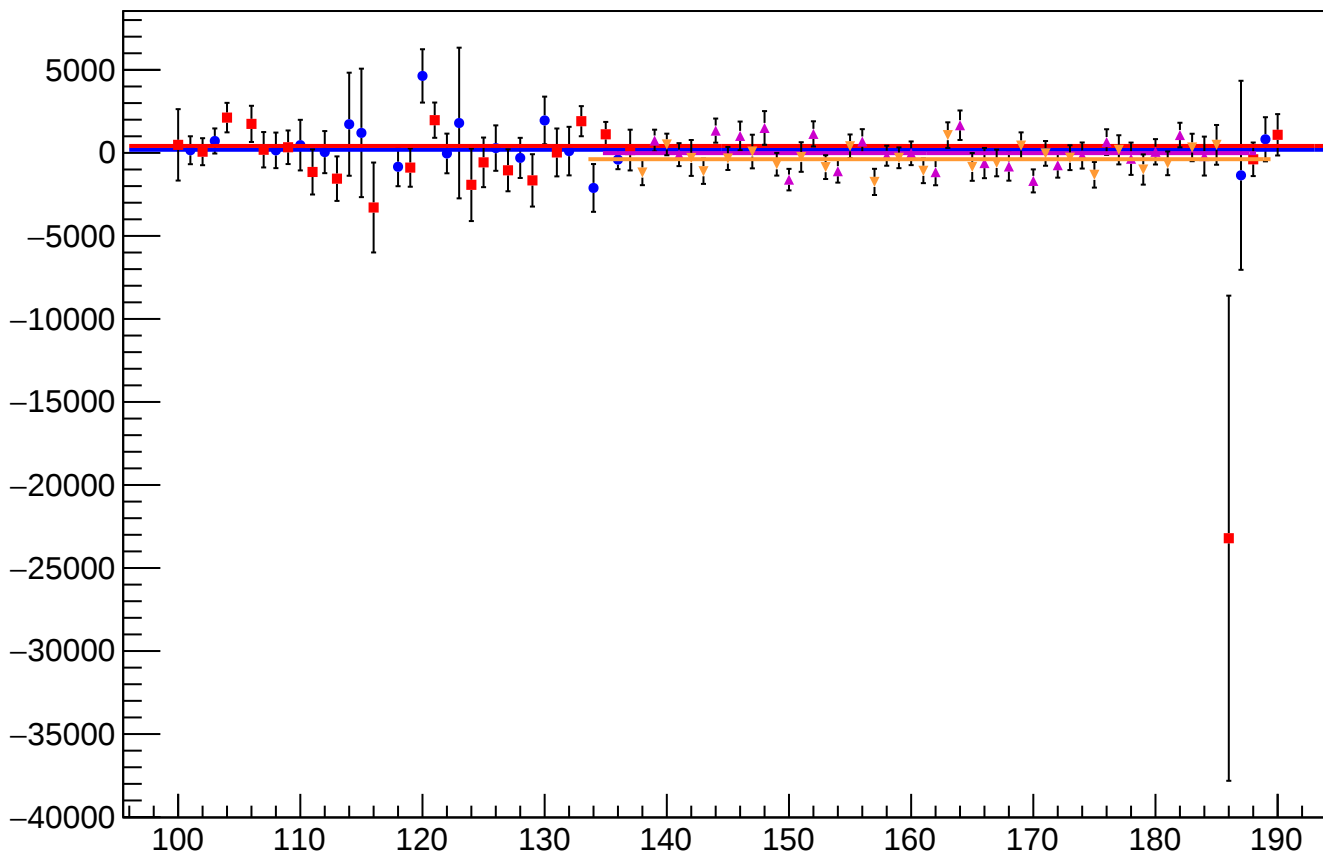
Right: 698.127 $\pm$ 0.129 χ^2 /NDF: 2248064.2/40

In: 664.151 $\pm$ 0.096 χ^2 /NDF: 1356142.6/41

Out: 665.870 $\pm$ 0.092 χ^2 /NDF: 1815393.7/46

All: 665.046 $\pm$ 0.067 χ^2 /NDF: 3171702.7/88

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 187.803+/-273.519 χ^2/NDF : 15.0/18

Left Out: -379.470+/-155.892 χ^2/NDF :18.8/24

Right Out: 418.589+/-249.663 χ^2/NDF : 26.1/21

Left In: -14.768+/-159.513 χ^2/NDF :37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

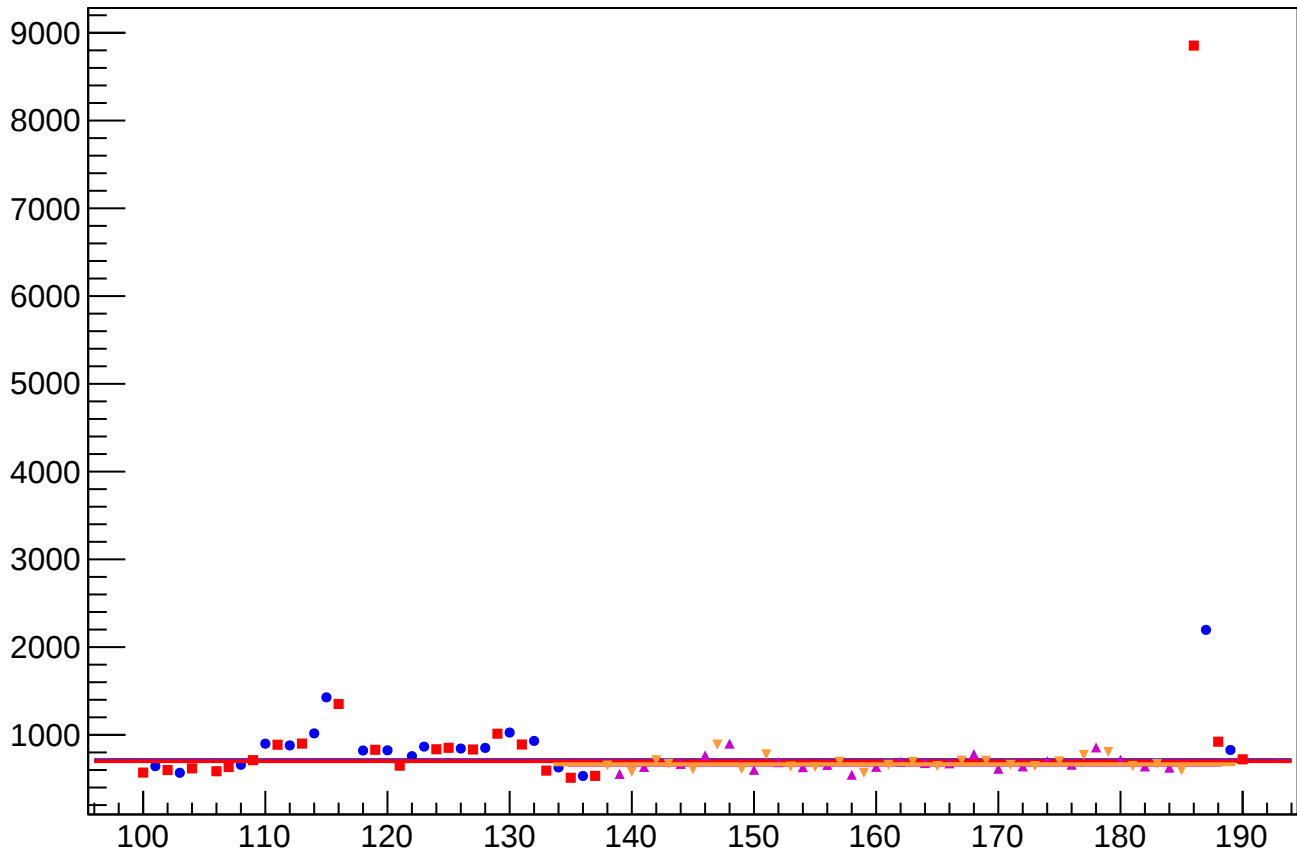
Right: 313.697+/-184.397 χ^2/NDF : 41.5/40

In: 36.643+/-137.793 χ^2/NDF :52.6/41

Out: -155.601+/-132.231 χ^2/NDF :52.3/46

All: -63.437+/-95.407 χ^2/NDF : 105.9/88

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 711.029+/-0.193 χ^2/NDF : 814292.6/18

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 701.075+/-0.177 χ^2/NDF : 1392054.5/21

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

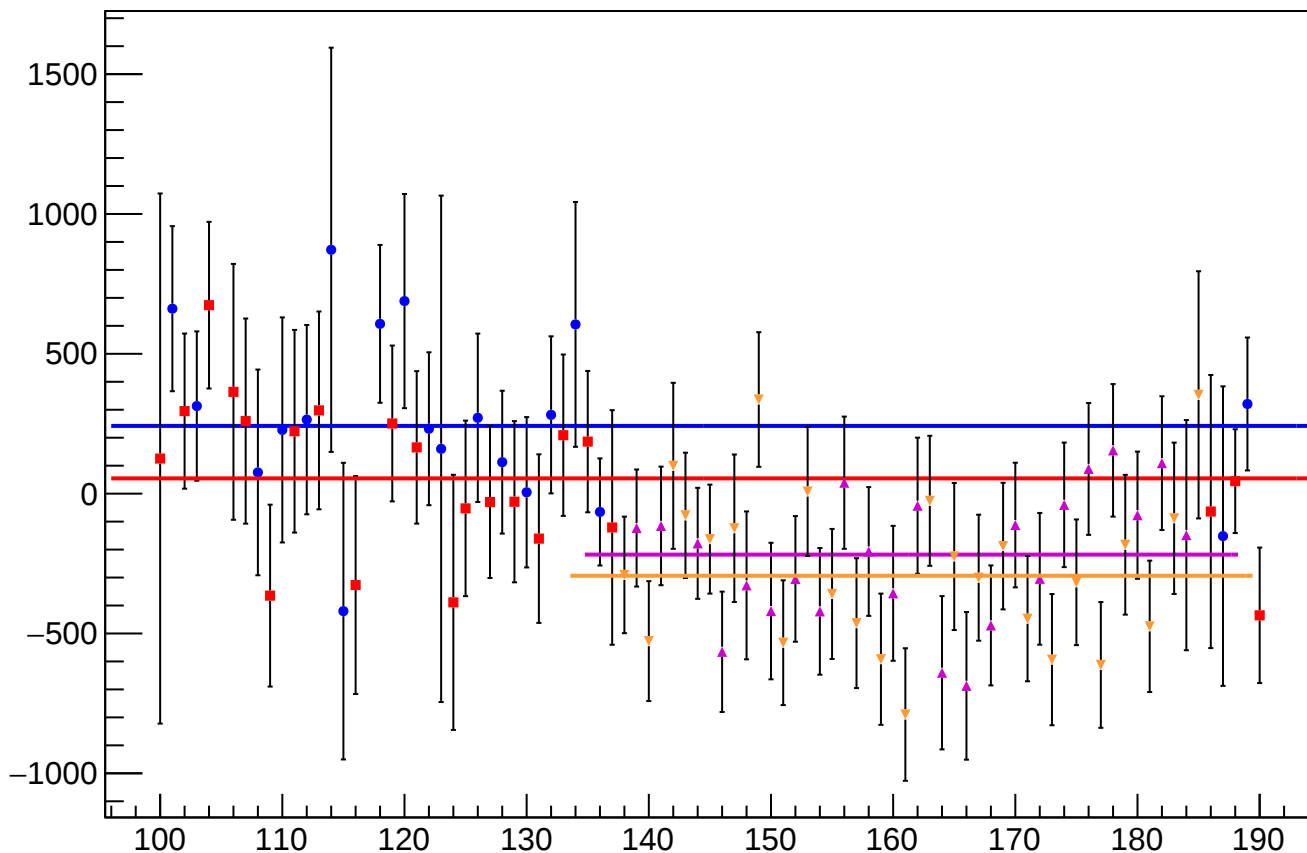
Right: 705.599+/-0.130 χ^2/NDF : 2207791.9/40

In: 673.615+/-0.097 χ^2/NDF : 1313620.9/41

Out: 674.956+/-0.094 χ^2/NDF : 1779532.9/46

All: 674.313+/-0.067 χ^2/NDF : 3093252.4/88

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 242.211 $\pm$ 71.822 χ^2 /NDF: 12.6/18

Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24

Right Out: 54.575 $\pm$ 65.821 χ^2 /NDF: 16.5/21

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

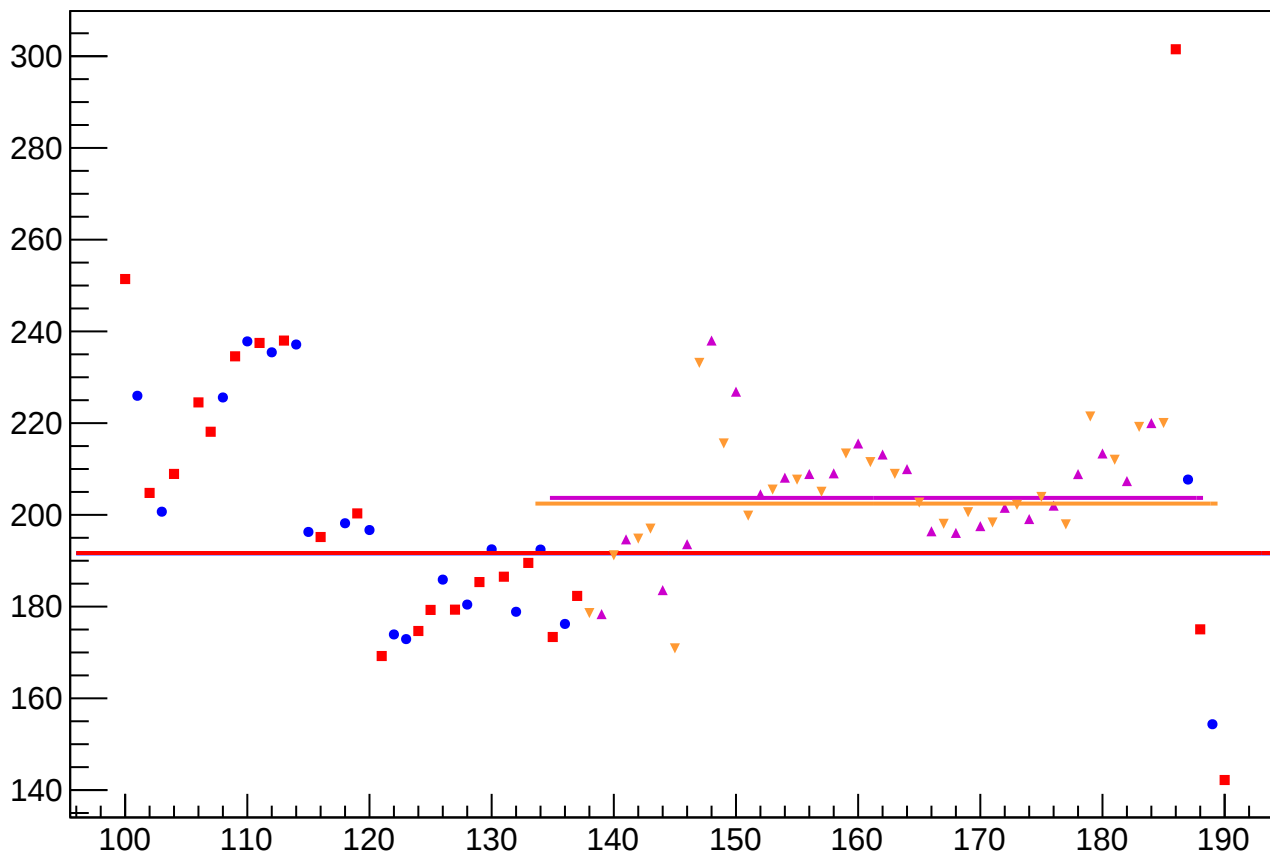
Right: 140.228 $\pm$ 48.526 χ^2 /NDF: 32.8/40

In: -72.541 $\pm$ 40.375 χ^2 /NDF:62.0/41

Out: -175.345 $\pm$ 38.359 χ^2 /NDF:65.3/46

All: -126.574 $\pm$ 27.809 χ^2 /NDF: 130.7/88

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 191.606 $\pm$ 0.051 χ^2 /NDF: 197749.6/18

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 191.687 $\pm$ 0.047 χ^2 /NDF: 380538.5/21

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

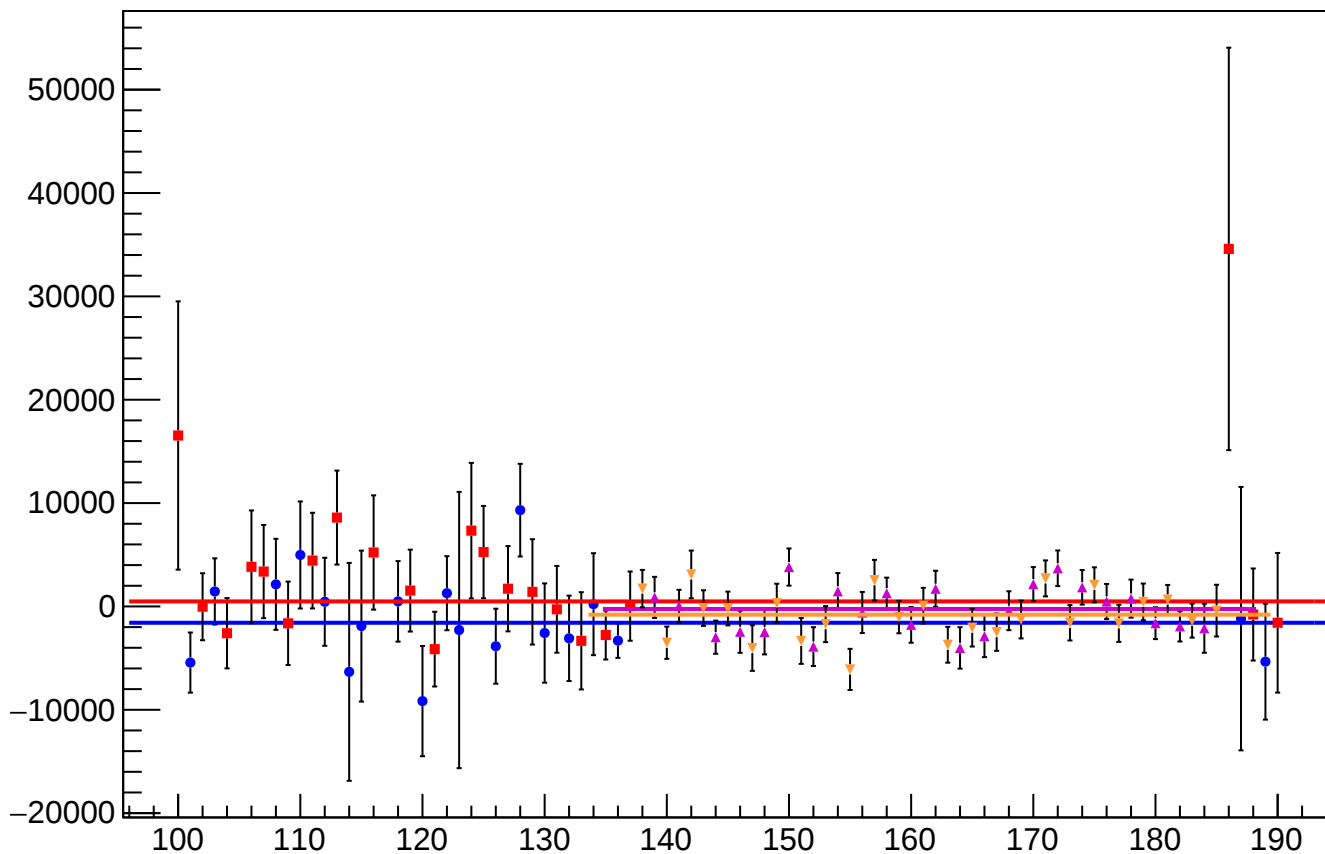
Right: 191.650 $\pm$ 0.034 χ^2 /NDF: 578289.5/40

In: 199.877 $\pm$ 0.029 χ^2 /NDF:372723.6/41

Out: 198.800 $\pm$ 0.027 χ^2 /NDF:574493.9/46

All: 199.311 $\pm$ 0.020 χ^2 /NDF: 947965.6/88

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1578.379 $\pm$ 898.469 χ^2 /NDF: 16.5/18

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 486.869 $\pm$ 907.186 χ^2 /NDF: 18.0/21

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

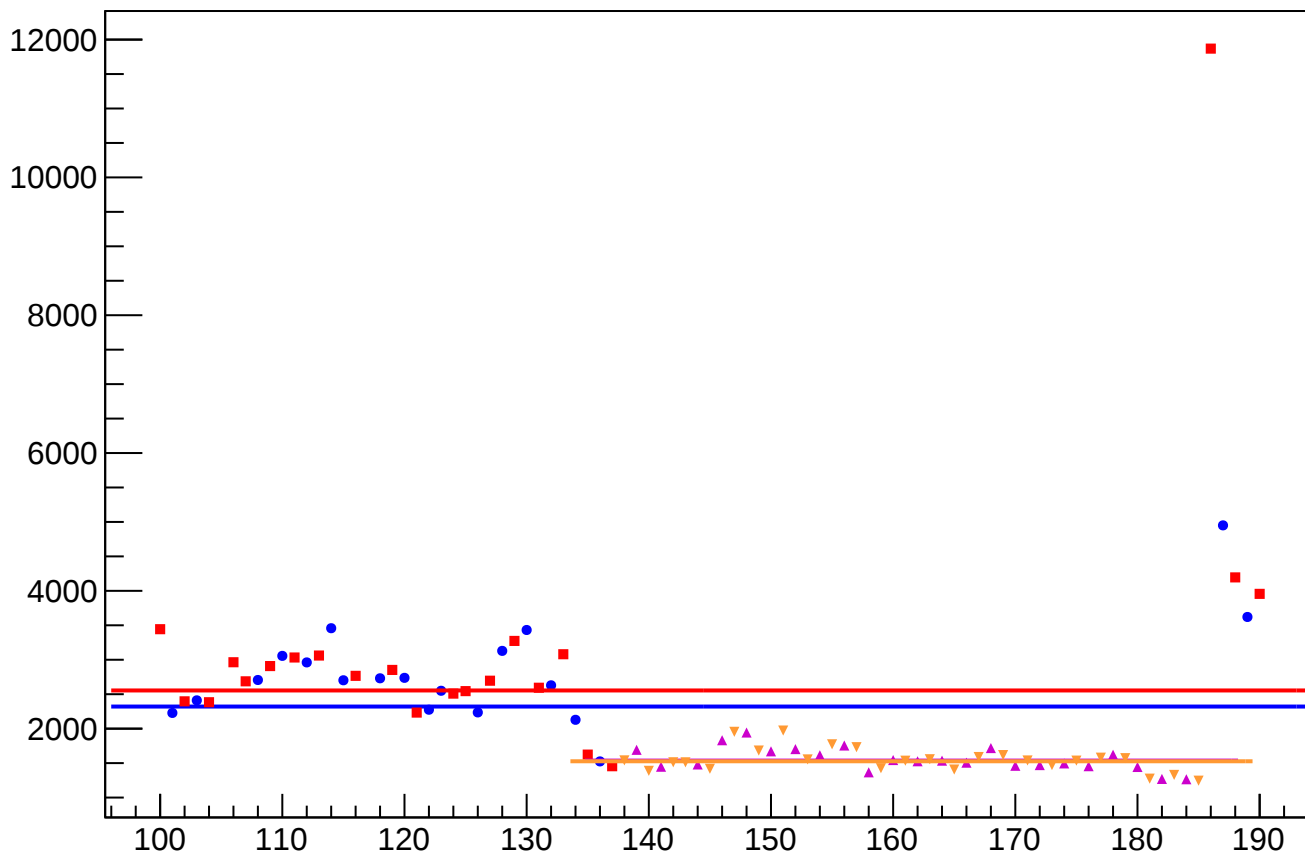
Right: -555.726 $\pm$ 638.373 χ^2 /NDF: 37.1/40

In: -438.288 $\pm$ 342.004 χ^2 /NDF: 54.1/41

Out: -623.720 $\pm$ 332.888 χ^2 /NDF: 55.4/46

All: -533.508 $\pm$ 238.545 χ^2 /NDF: 109.6/88

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2320.865 $\pm$ 0.635 χ^2 /NDF: 1005067.2/18

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2554.324 $\pm$ 0.641 χ^2 /NDF: 1531597.1/21

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

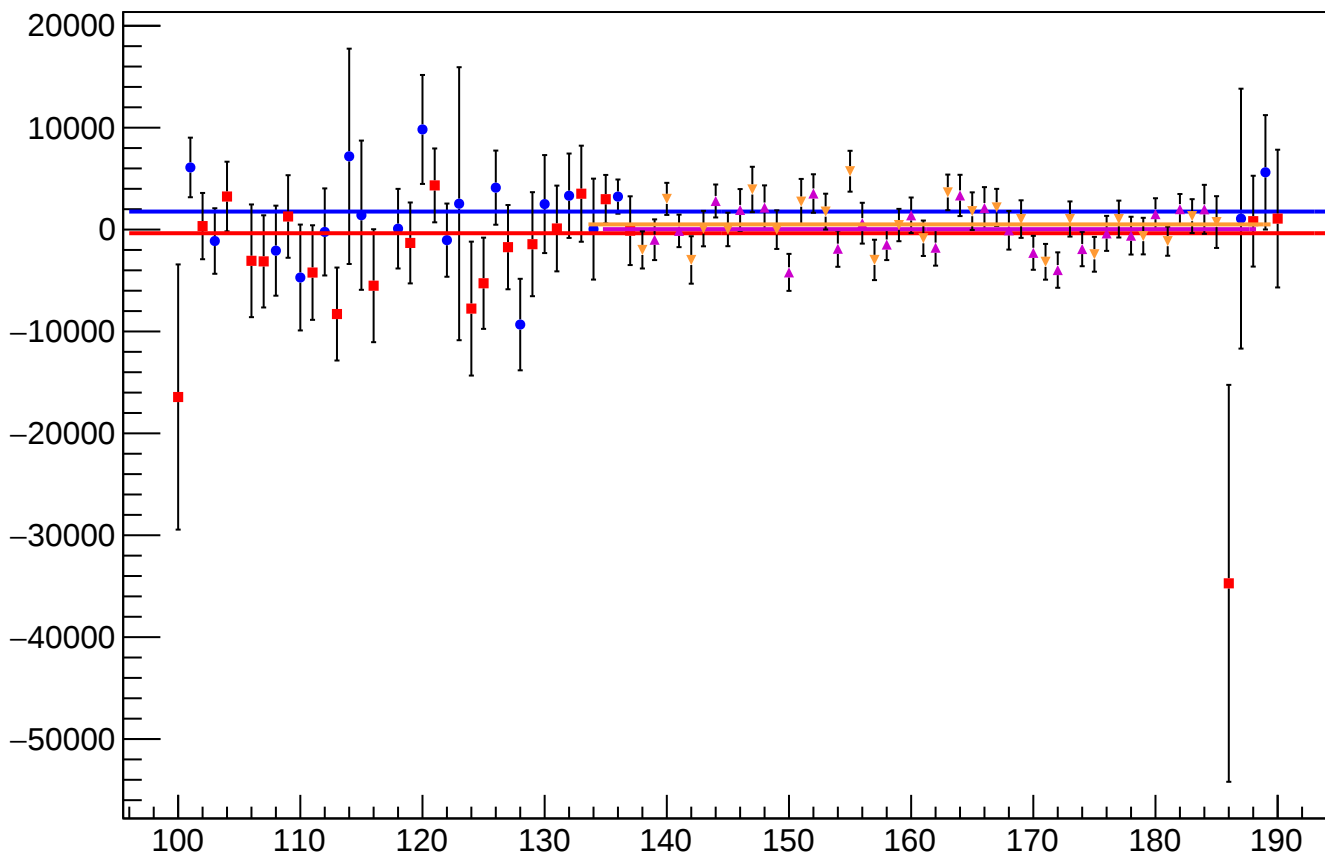
Right: 2436.468 $\pm$ 0.451 χ^2 /NDF: 2603529.6/40

In: 1650.183 $\pm$ 0.242 χ^2 /NDF: 2658721.9/41

Out: 1665.079 $\pm$ 0.235 χ^2 /NDF: 4147180.6/46

All: 1657.832 $\pm$ 0.169 χ^2 /NDF: 6807850.6/88

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1767.799+/-902.343 χ^2/NDF : 16.9/18

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -358.310+/-910.706 χ^2/NDF : 18.3/21

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

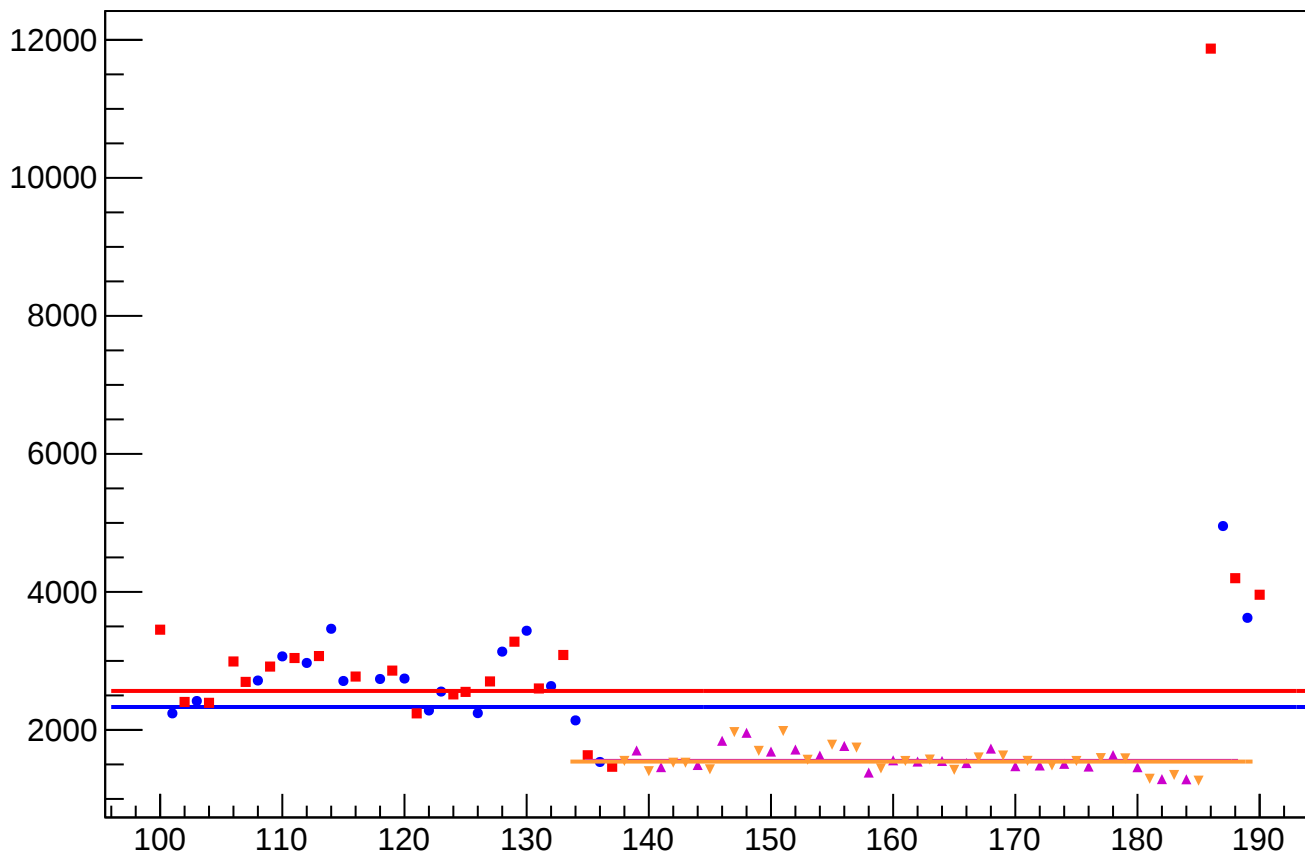
Right: 714.551+/-640.989 χ^2/NDF : 37.9/40

In: 292.518+/-344.916 χ^2/NDF : 53.6/41

Out: 390.249+/-335.734 χ^2/NDF : 54.4/46

All: 342.702+/-240.580 χ^2/NDF : 108.1/88

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2332.192 ± 0.638 $\chi^2/\text{NDF}: 991269.6/18$

Left Out: 1541.258 ± 0.255 $\chi^2/\text{NDF}: 382045.4/24$

Right Out: 2564.859 ± 0.644 $\chi^2/\text{NDF}: 1518890.4/21$

Left In: 1551.063 ± 0.264 $\chi^2/\text{NDF}: 338898.9/22$

Left: 1546.000 ± 0.184 $\chi^2/\text{NDF}: 721657.1/47$

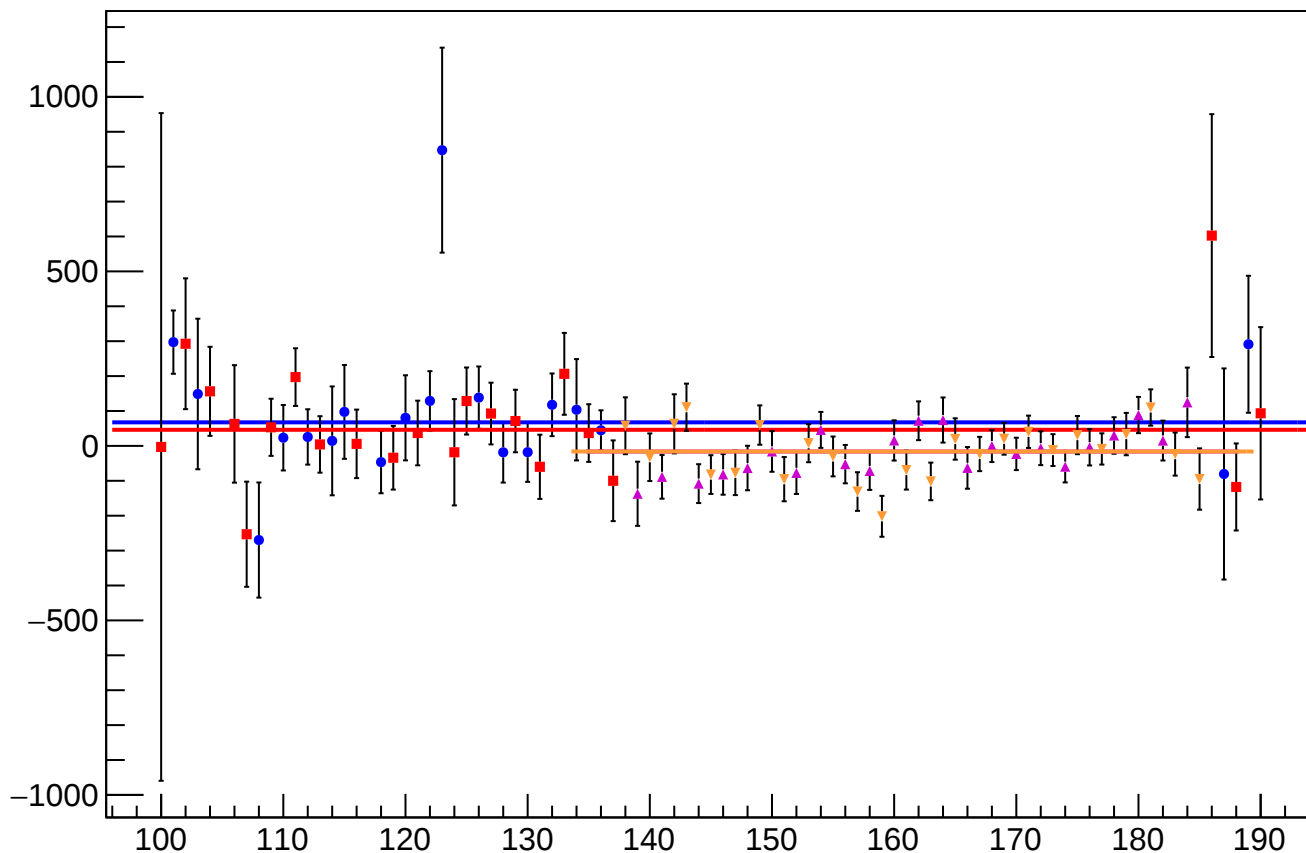
Right: 2447.452 ± 0.453 $\chi^2/\text{NDF}: 2576032.2/40$

In: 1665.195 ± 0.244 $\chi^2/\text{NDF}: 2609940.6/41$

Out: 1680.371 ± 0.237 $\chi^2/\text{NDF}: 4084150.9/46$

All: 1672.987 ± 0.170 $\chi^2/\text{NDF}: 6696079.5/88$

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 67.456 $\pm$ 23.549 χ^2 /NDF: 25.3/18

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 46.121 $\pm$ 23.158 χ^2 /NDF: 21.4/21

Left In: -16.162 $\pm$ 11.649 χ^2 /NDF:25.2/22

Left: -16.104 $\pm$ 8.126 χ^2 /NDF: 64.9/47

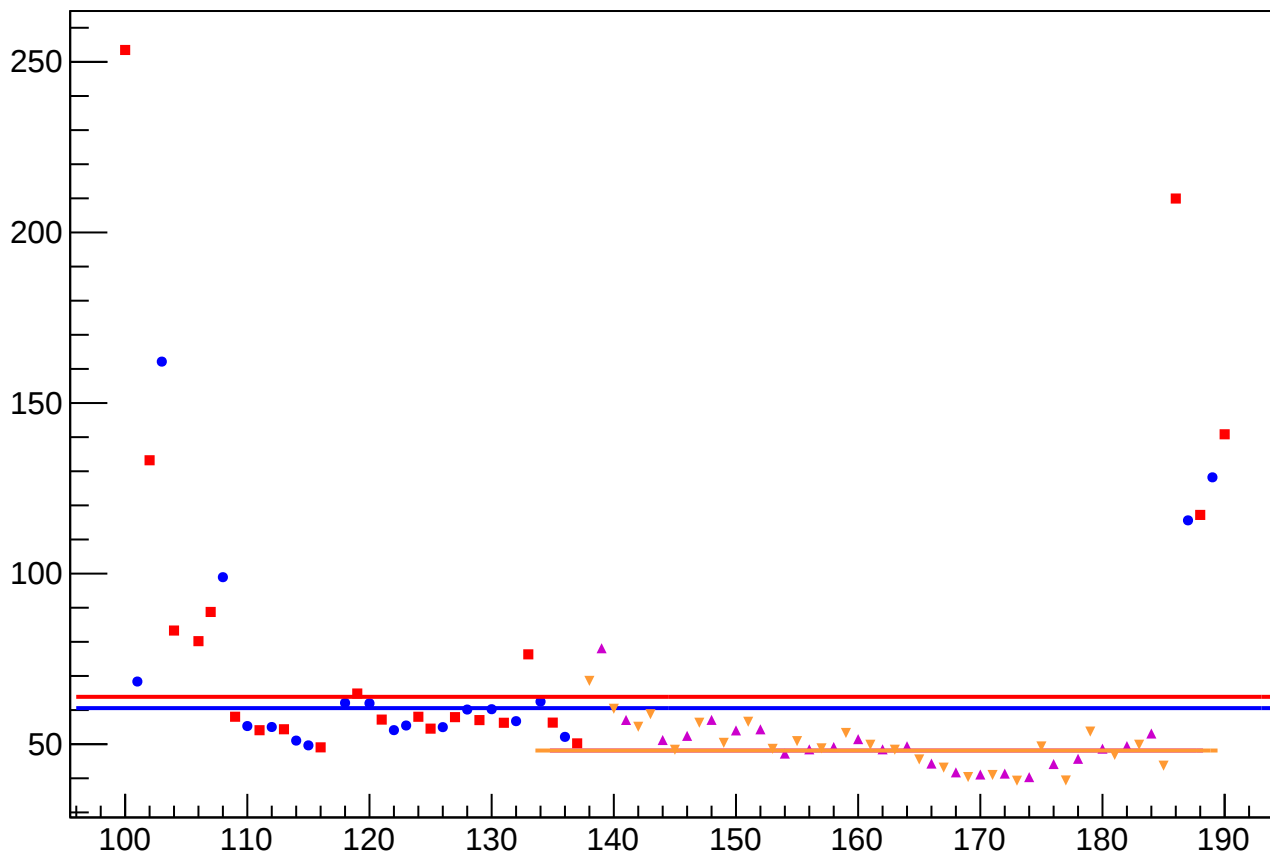
Right: 56.610 $\pm$ 16.512 χ^2 /NDF: 47.1/40

In: 0.278 $\pm$ 10.442 χ^2 /NDF:60.7/41

Out: -4.025 $\pm$ 10.184 χ^2 /NDF:66.9/46

All: -1.927 $\pm$ 7.291 χ^2 /NDF: 127.7/88

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 60.571+/-0.017 χ^2/NDF : 975526.7/18

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 63.880+/-0.016 χ^2/NDF : 1630051.0/21

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

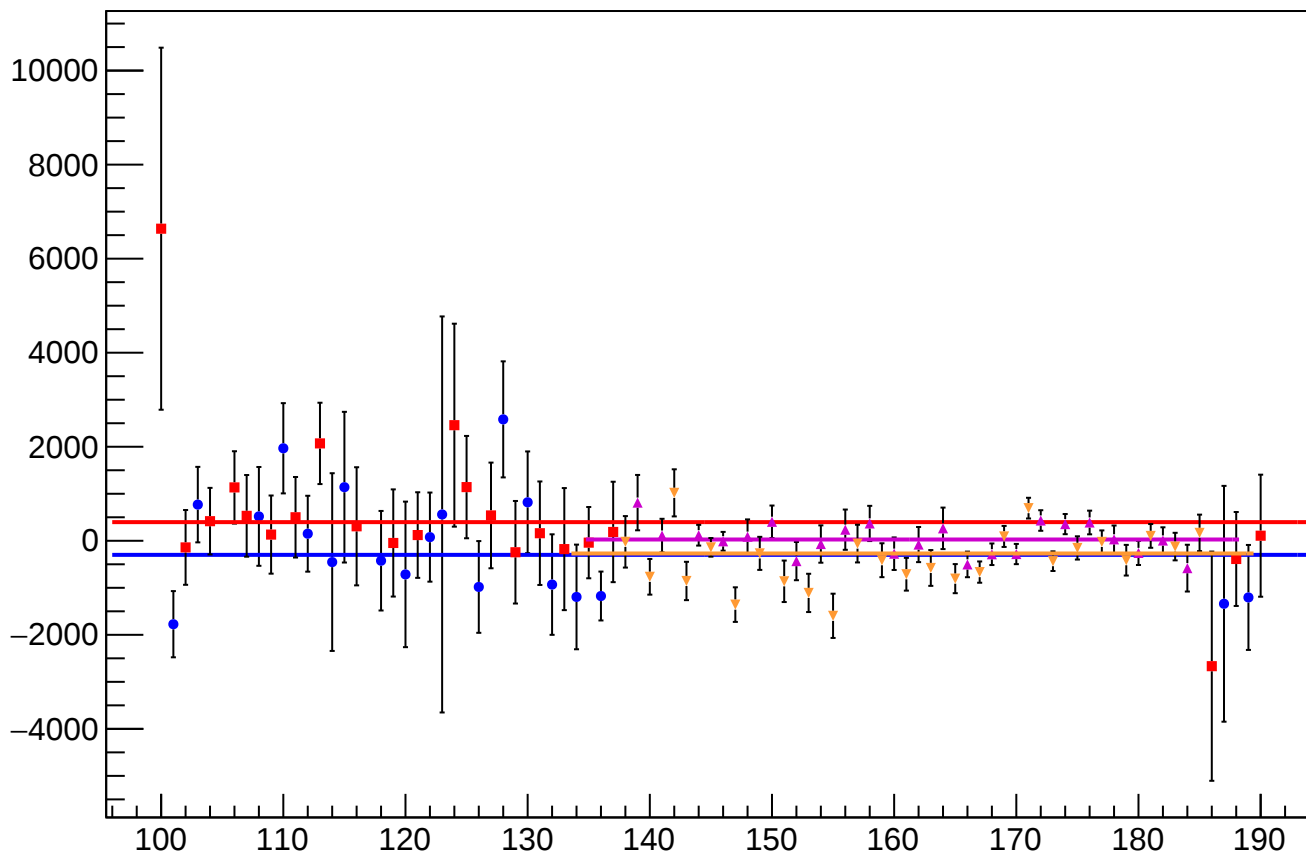
Right: 62.253+/-0.012 χ^2/NDF : 2625653.6/40

In: 50.583+/-0.007 χ^2/NDF : 1998342.6/41

Out: 51.185+/-0.007 χ^2/NDF : 3030455.2/46

All: 50.891+/-0.005 χ^2/NDF : 5032198.5/88

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -299.342 ± 228.502 χ^2/NDF : 25.4/18

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 396.628 ± 213.644 χ^2/NDF : 12.7/21

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

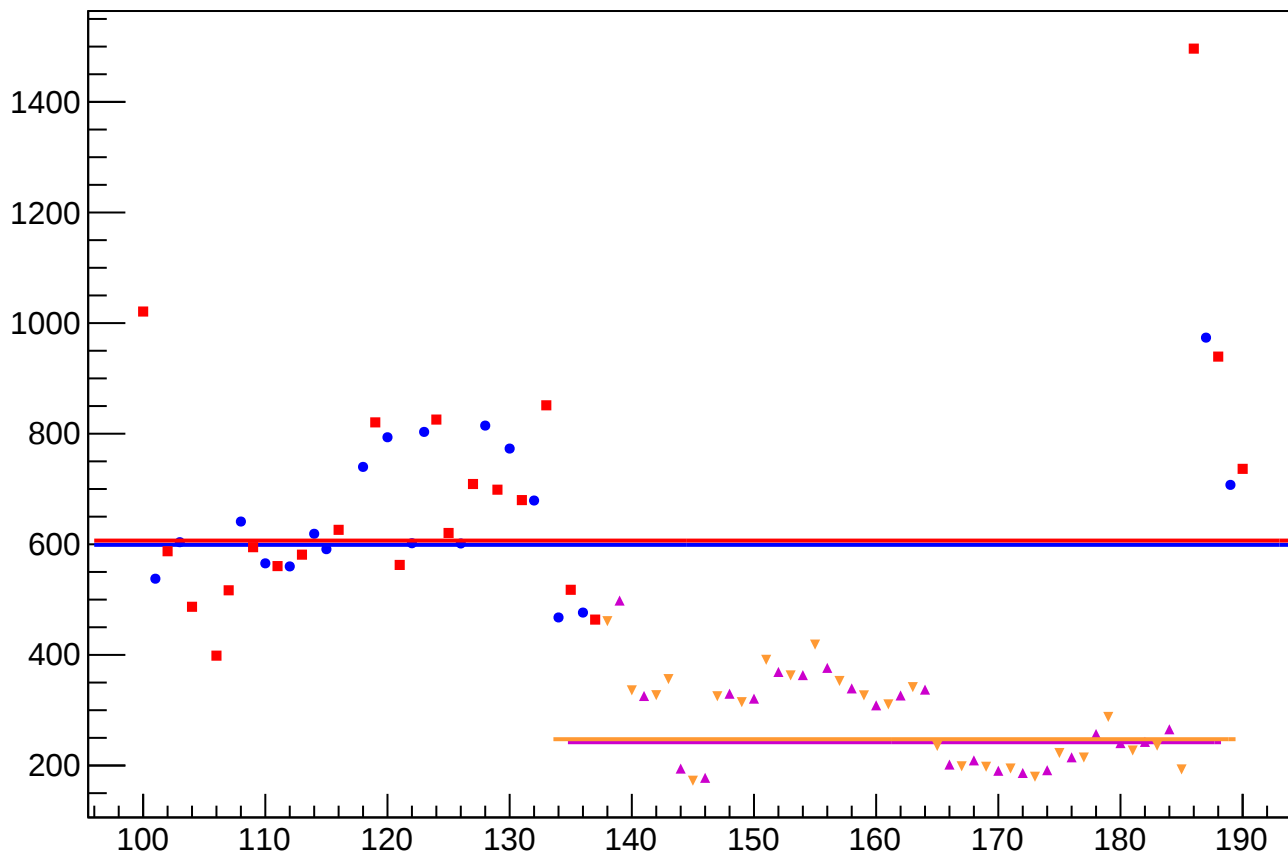
Right: 72.004 ± 156.058 χ^2/NDF : 43.1/40

In: 5.921 ± 58.422 χ^2/NDF : 52.4/41

Out: -221.196 ± 57.924 χ^2/NDF : 91.9/46

All: -108.610 ± 41.133 χ^2/NDF : 151.9/88

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 599.060+/-0.162 χ^2/NDF : 424071.7/18

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 606.734+/-0.151 χ^2/NDF : 1035650.1/21

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

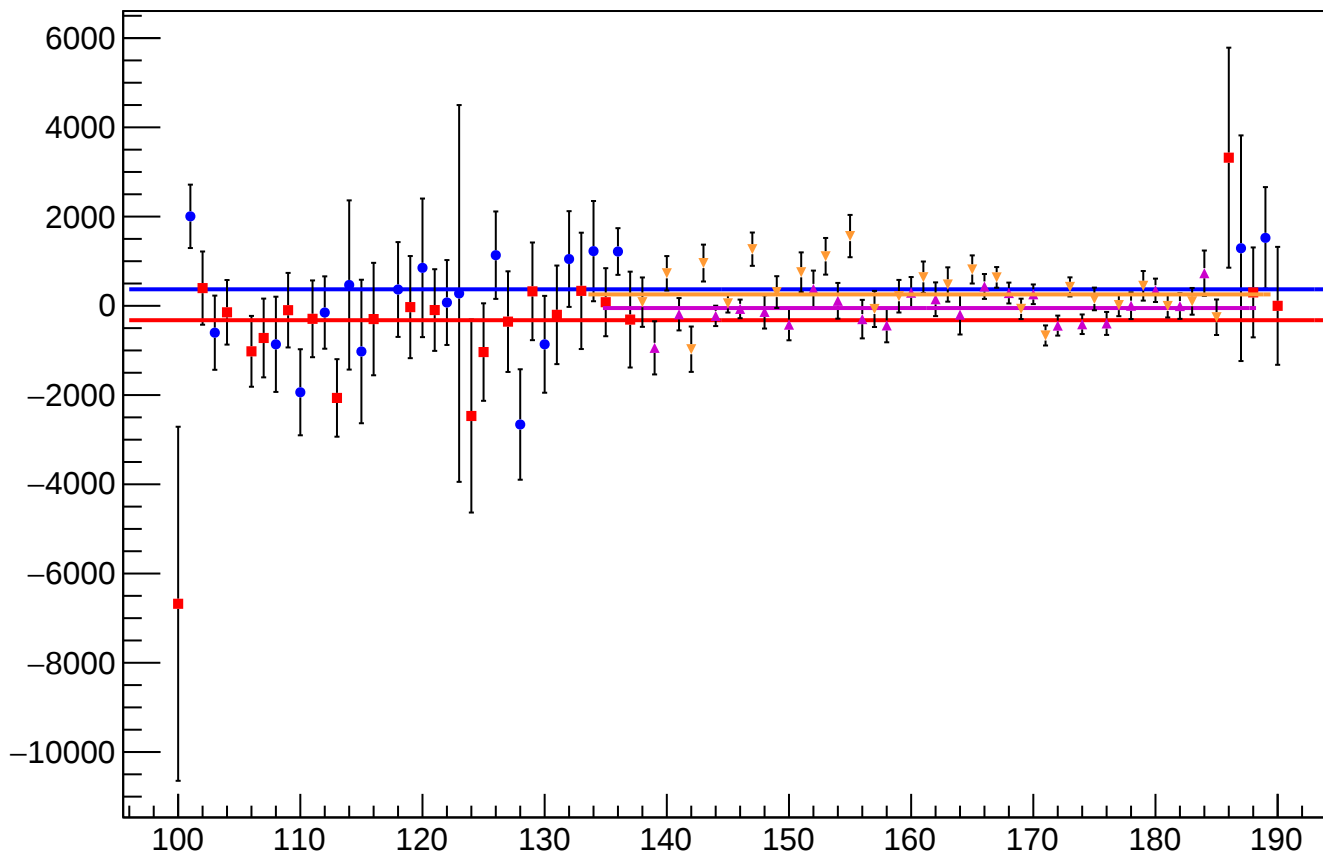
Right: 603.154+/-0.110 χ^2/NDF : 1460925.3/40

In: 265.450+/-0.041 χ^2/NDF : 7451489.1/41

Out: 273.971+/-0.041 χ^2/NDF : 9053474.3/46

All: 269.747+/-0.029 χ^2/NDF : 16526421.5/80

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 370.204 $\pm$ 230.539 χ^2 /NDF: 27.7/18

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -322.310 $\pm$ 216.103 χ^2 /NDF: 13.5/21

Left In: -49.832 $\pm$ 61.781 χ^2 /NDF:27.5/22

Left: 103.982 $\pm$ 43.557 χ^2 /NDF: 103.4/47

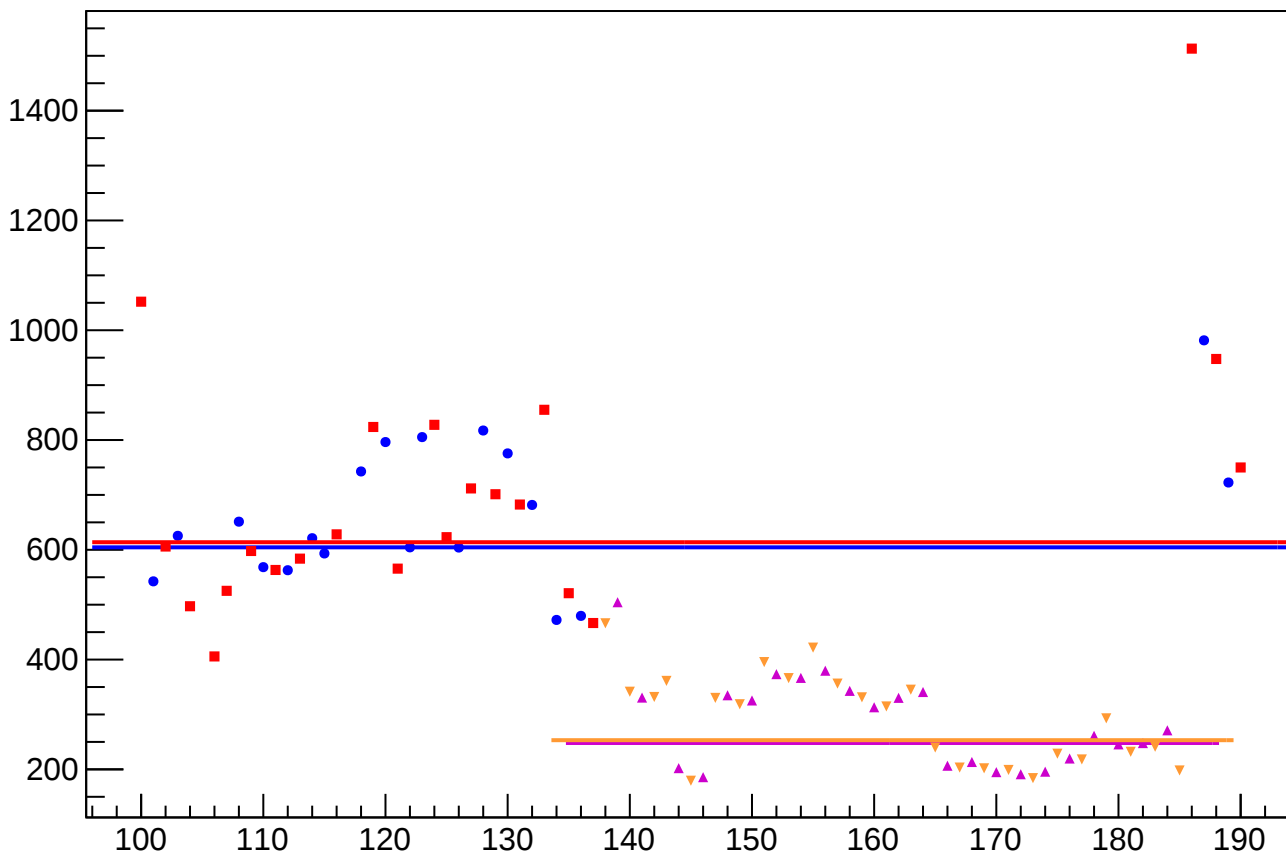
Right: 1.588 $\pm$ 157.664 χ^2 /NDF: 46.1/40

In: -21.688 $\pm$ 59.675 χ^2 /NDF:58.4/41

Out: 212.774 $\pm$ 59.079 χ^2 /NDF:83.7/46

All: 96.721 $\pm$ 41.984 χ^2 /NDF: 149.9/88

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 604.483 ± 0.163 $\chi^2/\text{NDF}: 424488.1/18$

Left Out: 253.137 ± 0.043 $\chi^2/\text{NDF}: 2665975.8/24$

Right Out: 613.798 ± 0.153 $\chi^2/\text{NDF}: 1014942.8/21$

Left In: 248.069 ± 0.044 $\chi^2/\text{NDF}: 2343295.0/22$

Left: 250.618 ± 0.031 $\chi^2/\text{NDF}: 5016040.5/47$

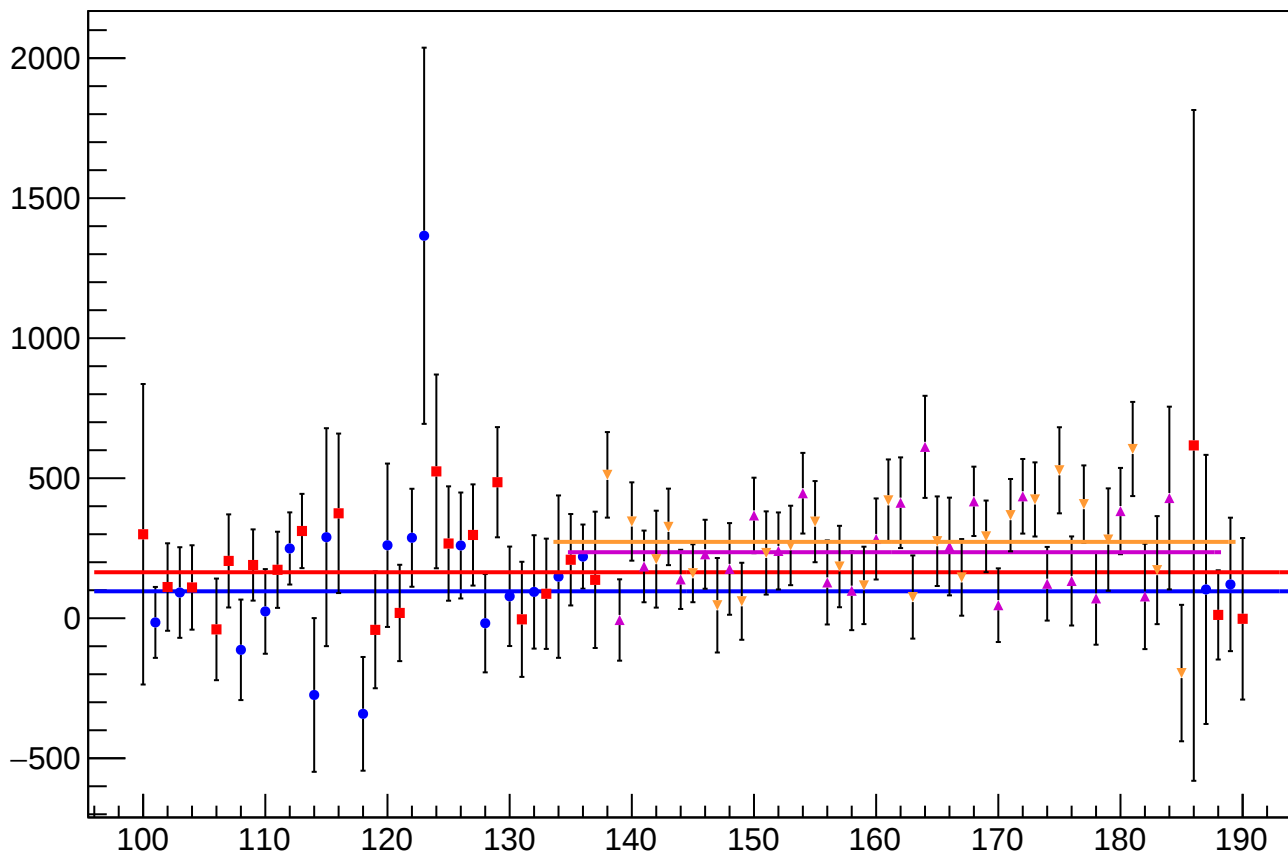
Right: 609.441 ± 0.111 $\chi^2/\text{NDF}: 1441168.6/40$

In: 271.950 ± 0.042 $\chi^2/\text{NDF}: 7227767.4/41$

Out: 280.092 ± 0.042 $\chi^2/\text{NDF}: 8835232.4/46$

All: 276.062 ± 0.030 $\chi^2/\text{NDF}: 16081802.0/88$

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 96.186 $\pm$ 42.527 χ^2 /NDF: 17.9/18

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 164.238 $\pm$ 39.474 χ^2 /NDF: 12.0/21

Left In: 235.801 $\pm$ 30.232 χ^2 /NDF:24.6/22

Left: 254.870 $\pm$ 21.011 χ^2 /NDF: 52.8/47

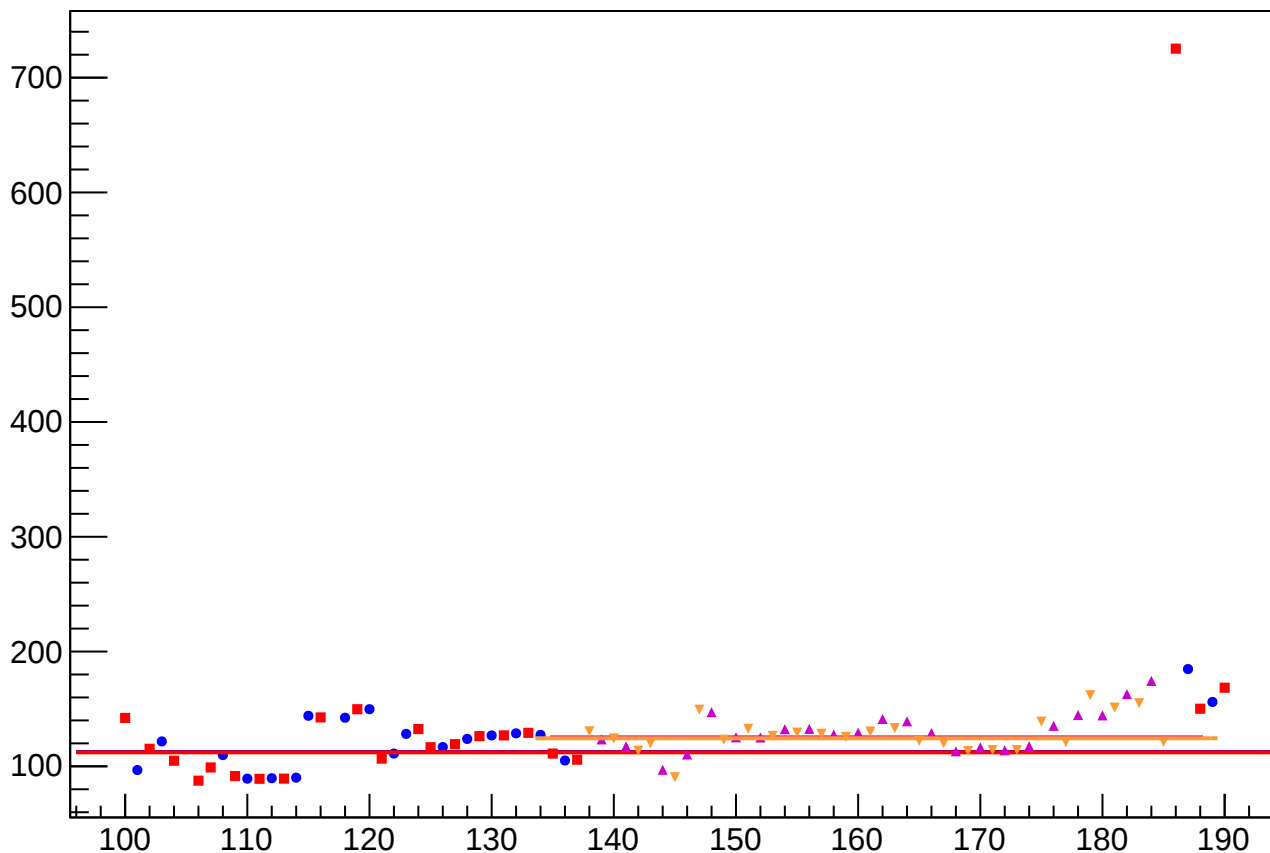
Right: 132.742 $\pm$ 28.931 χ^2 /NDF: 31.3/40

In: 188.932 $\pm$ 24.640 χ^2 /NDF:49.7/41

Out: 234.294 $\pm$ 23.486 χ^2 /NDF:44.3/46

All: 212.700 $\pm$ 17.001 χ^2 /NDF: 95.8/88

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 112.474+/-0.030 χ^2/NDF : 412555.8/18

Left Out: 124.429+/-0.021 χ^2/NDF : 539731.8/24

Right Out: 112.197+/-0.028 χ^2/NDF : 1083007.5/21

Left In: 125.205+/-0.021 χ^2/NDF : 501388.2/22

Left: 124.804+/-0.015 χ^2/NDF : 1041801.9/47

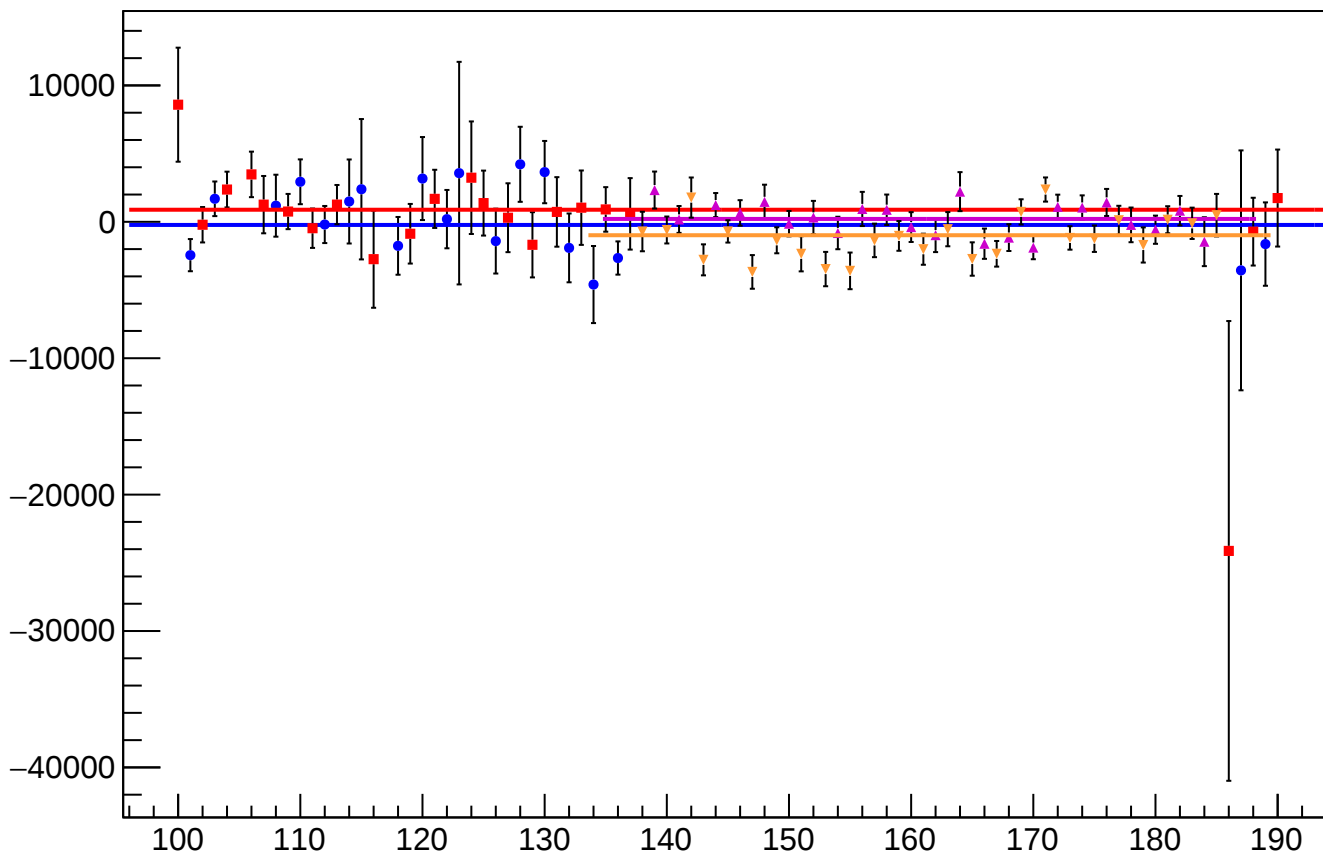
Right: 112.325+/-0.020 χ^2/NDF : 1495609.1/40

In: 120.931+/-0.017 χ^2/NDF : 1033005.2/41

Out: 120.099+/-0.017 χ^2/NDF : 1746796.6/46

All: 120.495+/-0.012 χ^2/NDF : 2780998.4/88

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -228.702 ± 459.803 $\chi^2/\text{NDF}: 25.4/18$

Left Out: -982.839 ± 218.021 $\chi^2/\text{NDF}: 47.2/24$

Right Out: 886.454 ± 426.025 $\chi^2/\text{NDF}: 14.9/21$

Left In: 211.420 ± 223.296 $\chi^2/\text{NDF}: 25.7/22$

Left: -399.983 ± 155.996 $\chi^2/\text{NDF}: 87.5/47$

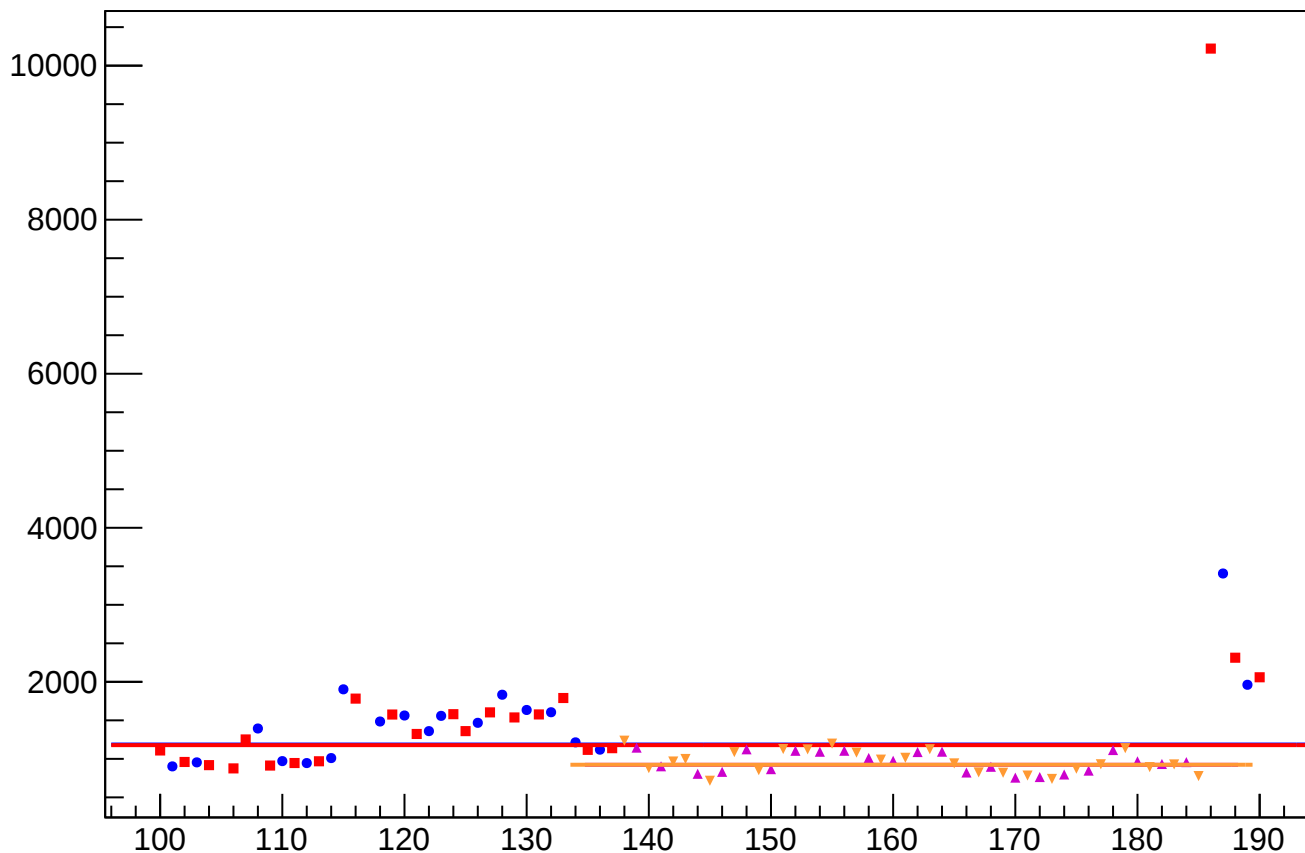
Right: 371.337 ± 312.505 $\chi^2/\text{NDF}: 43.4/40$

In: 127.430 ± 200.863 $\chi^2/\text{NDF}: 51.8/41$

Out: -594.884 ± 194.083 $\chi^2/\text{NDF}: 77.4/46$

All: -246.124 ± 139.573 $\chi^2/\text{NDF}: 135.8/88$

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1186.020+/-0.325 χ^2/NDF : 963049.5/18

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1178.186+/-0.301 χ^2/NDF : 1916587.5/21

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

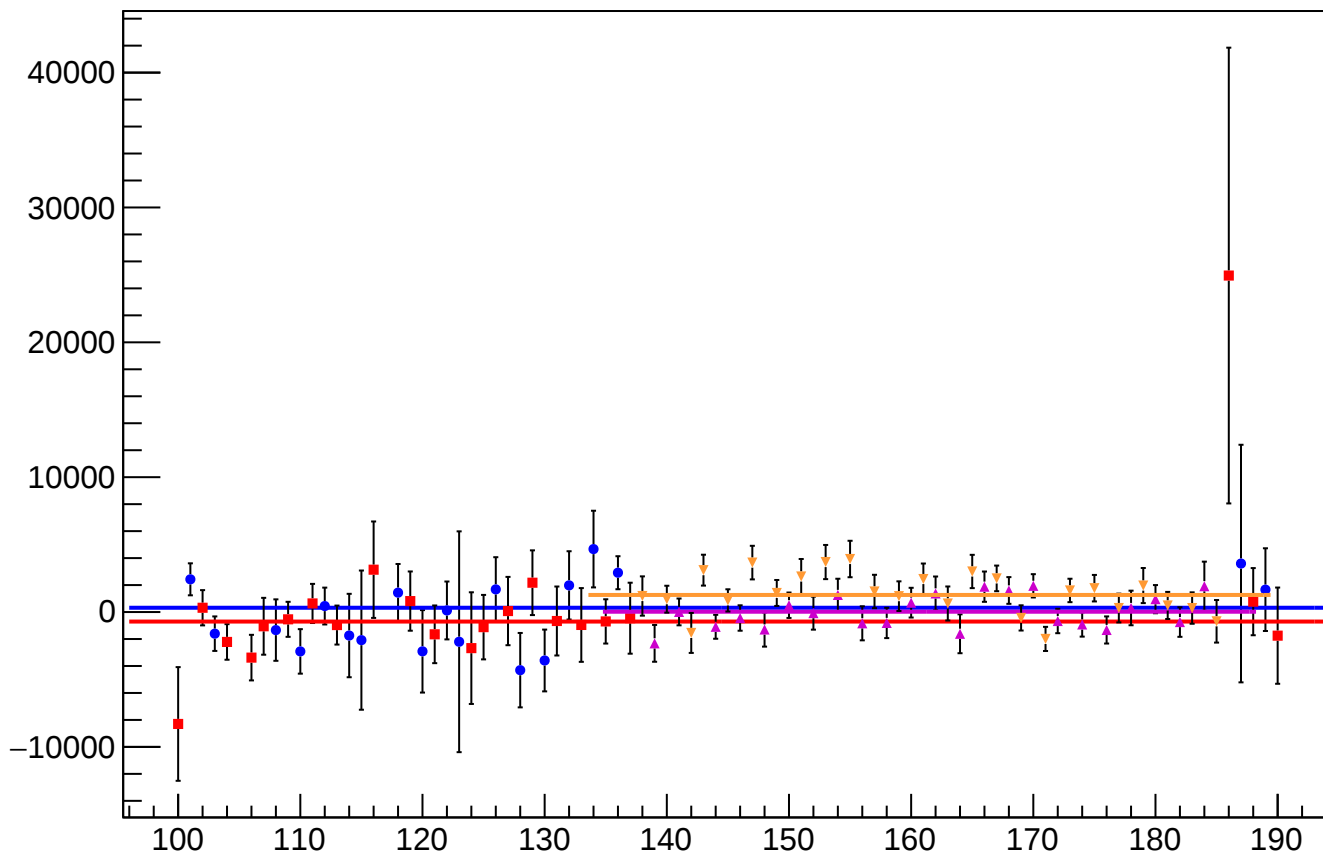
Right: 1181.805+/-0.221 χ^2/NDF : 2879949.4/40

In: 972.583+/-0.142 χ^2/NDF : 2130350.3/41

Out: 976.426+/-0.137 χ^2/NDF : 3325391.3/46

All: 974.570+/-0.099 χ^2/NDF : 5456120.3/88

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 318.413 ± 462.042 χ^2/NDF : 25.6/18

Left Out: 1267.344 ± 220.133 χ^2/NDF : 44.9/24

Right Out: -705.368 ± 428.301 χ^2/NDF : 15.0/21

Left In: 23.478 ± 225.490 χ^2/NDF : 27.2/22

Left: 660.362 ± 157.518 χ^2/NDF : 87.7/47

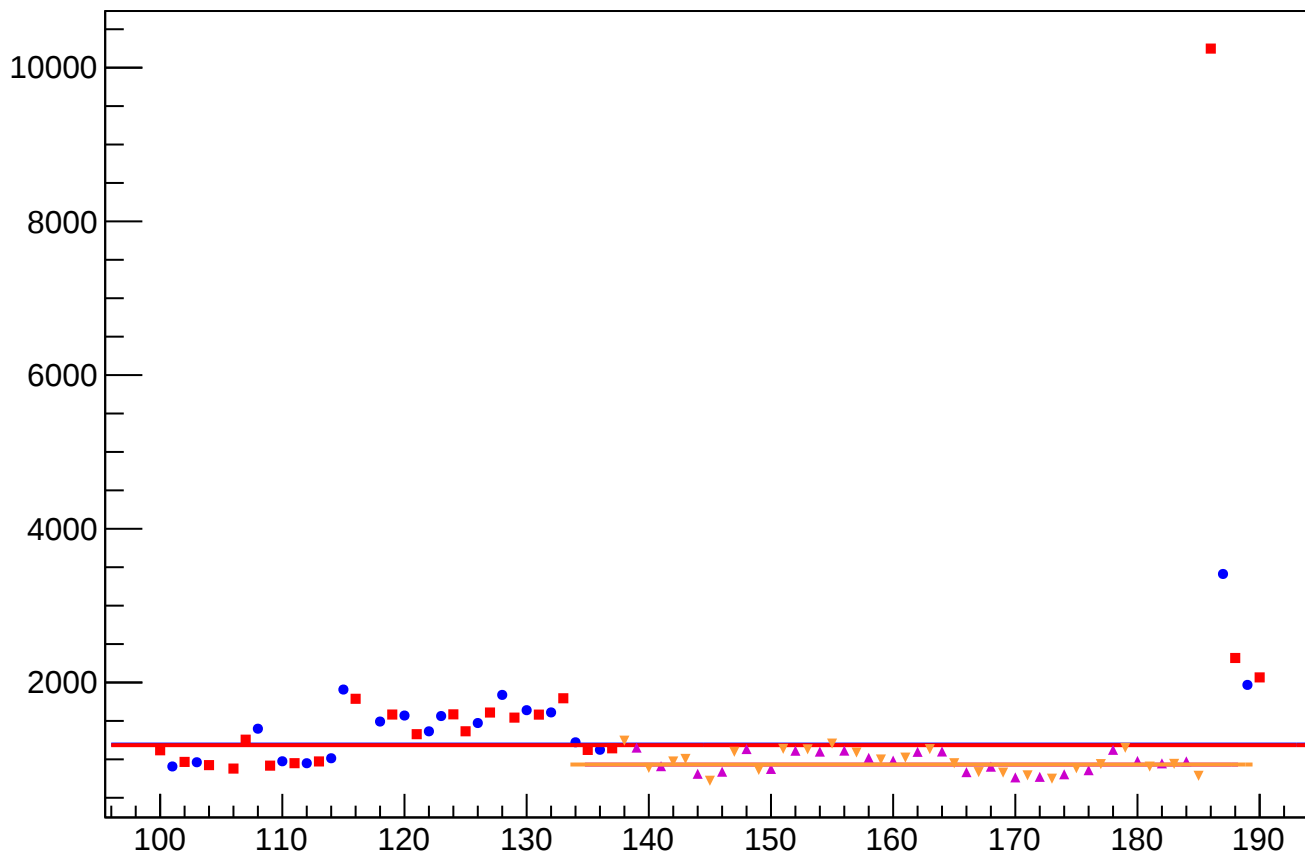
Right: -232.220 ± 314.106 χ^2/NDF : 43.3/40

In: 80.211 ± 202.646 χ^2/NDF : 53.1/41

Out: 855.119 ± 195.787 χ^2/NDF : 76.7/46

All: 481.000 ± 140.805 χ^2/NDF : 137.4/88

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1192.145 $\pm$ 0.327 χ^2 /NDF: 956451.0/18

Left Out: 932.764 $\pm$ 0.156 χ^2 /NDF: 829798.4/24

Right Out: 1184.568 $\pm$ 0.303 χ^2 /NDF: 1906865.5/21

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

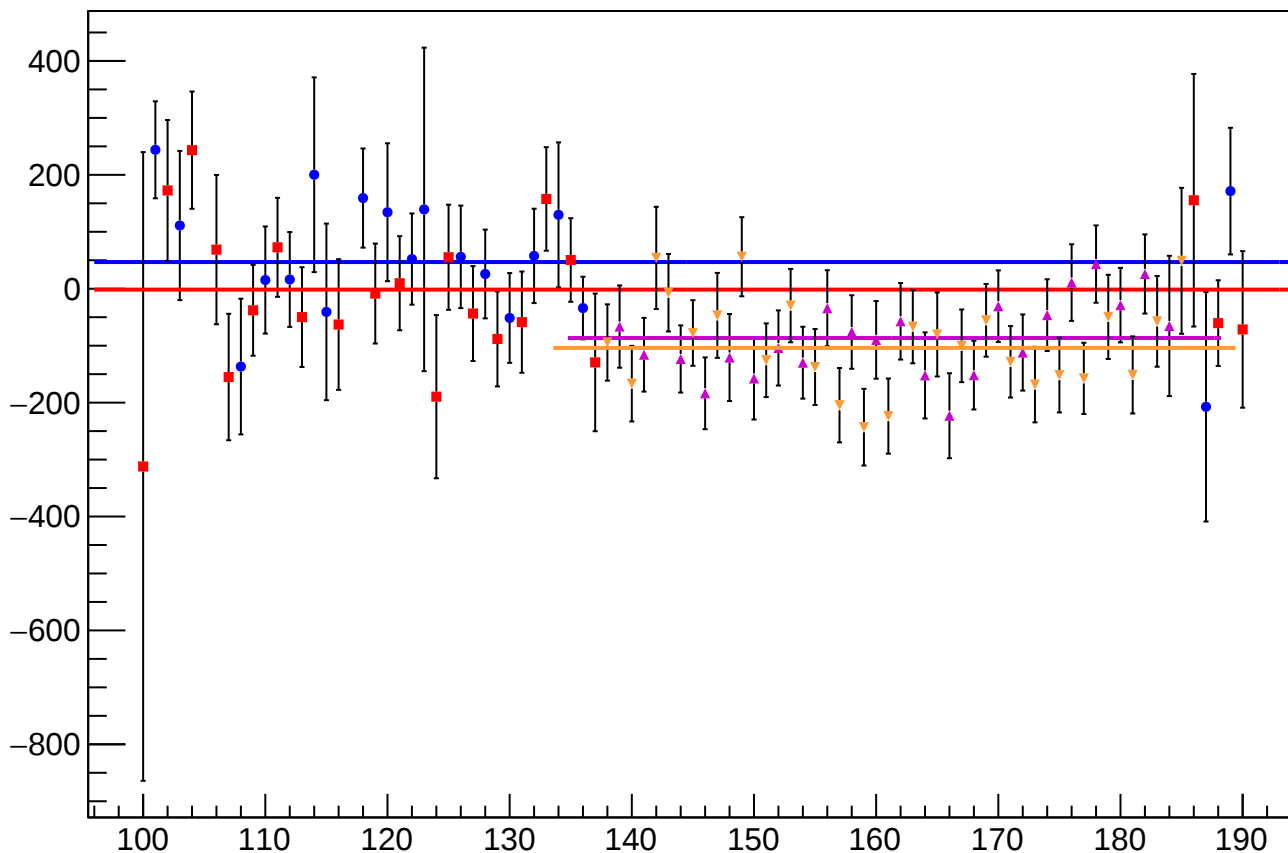
Right: 1188.070 $\pm$ 0.222 χ^2 /NDF: 2863605.8/40

In: 981.631 $\pm$ 0.143 χ^2 /NDF: 2094943.5/41

Out: 985.382 $\pm$ 0.138 χ^2 /NDF: 3283497.6/46

All: 983.571 $\pm$ 0.100 χ^2 /NDF: 5378795.4/88

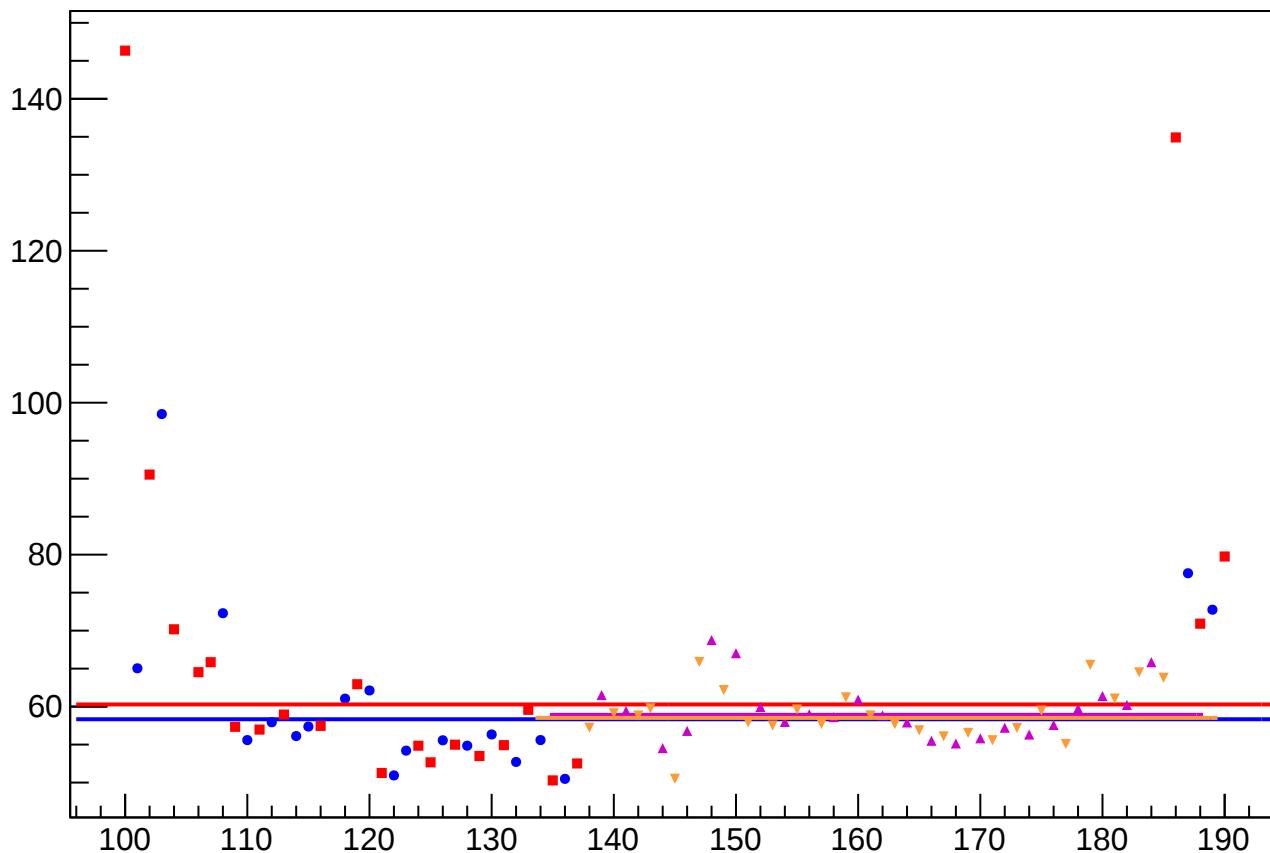
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 46.870 ± 22.028 $\chi^2/\text{NDF}: 18.7/18$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: -1.523 ± 20.942 $\chi^2/\text{NDF}: 21.6/21$
 Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$
 Right: 21.452 ± 15.177 $\chi^2/\text{NDF}: 42.9/40$
 In: -47.689 ± 11.887 $\chi^2/\text{NDF}: 66.1/41$
 Out: -73.398 ± 11.431 $\chi^2/\text{NDF}: 68.4/46$
 All: -61.047 ± 8.239 $\chi^2/\text{NDF}: 136.9/88$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.334+/-0.016 χ^2/NDF : 361310.6/18

Left Out: 58.513+/-0.010 χ^2/NDF :123221.6/24

Right Out: 60.284+/-0.015 χ^2/NDF : 624014.0/21

Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

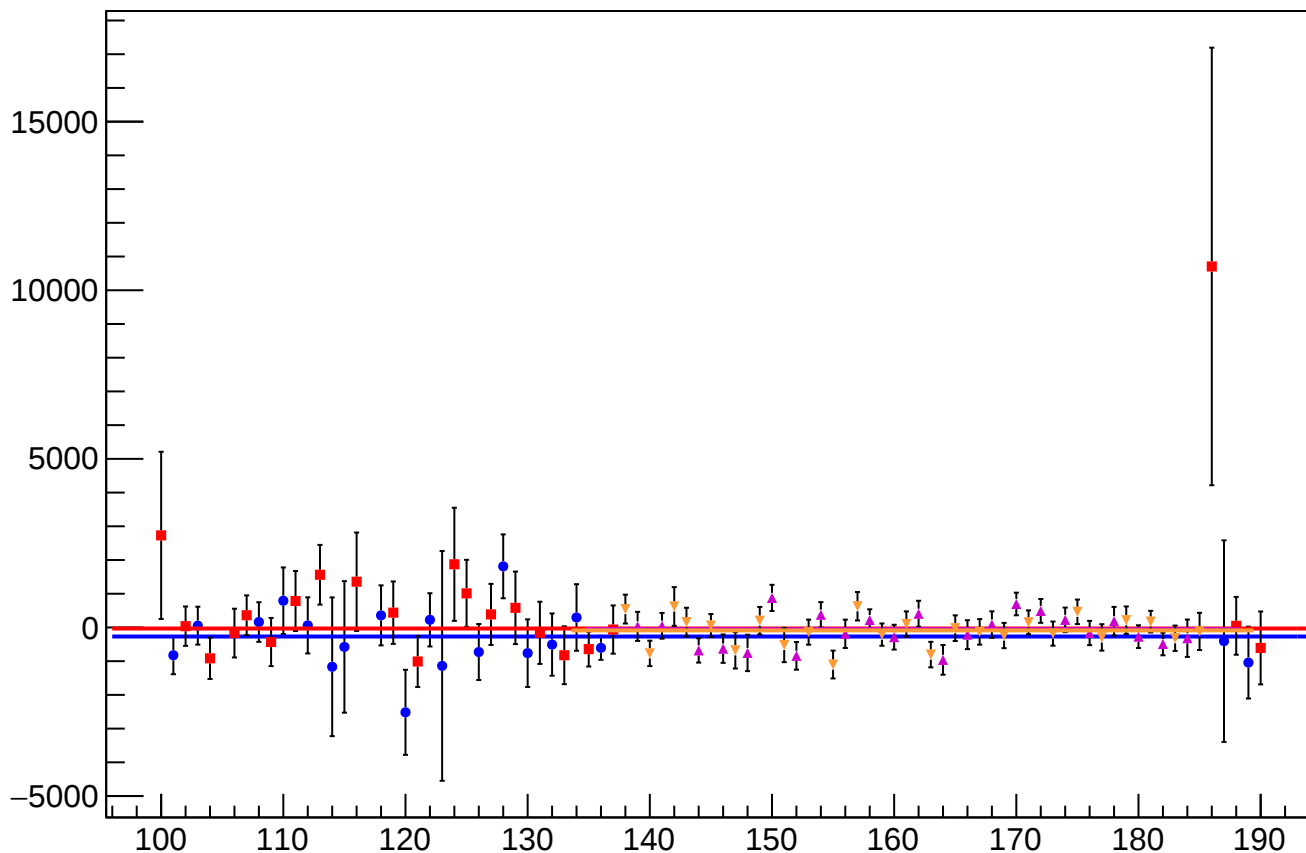
Right: 59.358+/-0.011 χ^2/NDF : 993560.0/40

In: 58.745+/-0.008 χ^2/NDF :472259.6/41

Out: 59.041+/-0.008 χ^2/NDF :757281.5/46

All: 58.898+/-0.006 χ^2/NDF : 1230185.5/88

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -268.891+/-181.366 χ^2/NDF : 14.7/18

Left Out: -87.459+/-78.556 χ^2/NDF : 27.7/24

Right Out: -31.418+/-175.739 χ^2/NDF : 19.3/21

Left In: -48.742+/-80.548 χ^2/NDF : 35.3/22

Left: -68.585+/-56.239 χ^2/NDF : 63.2/47

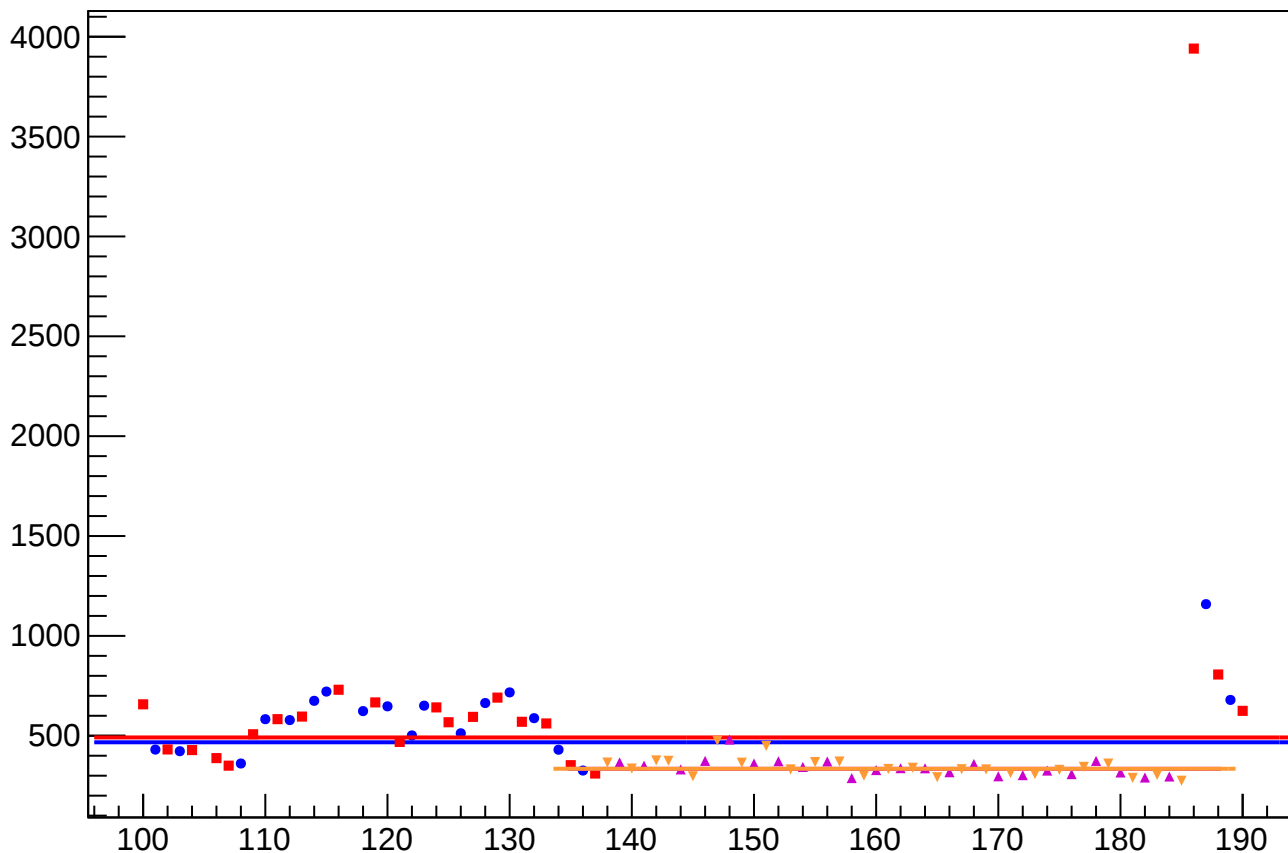
Right: -146.414+/-126.209 χ^2/NDF : 34.9/40

In: -85.011+/-73.614 χ^2/NDF : 51.2/41

Out: -78.126+/-71.717 χ^2/NDF : 47.1/46

All: -81.478+/-51.369 χ^2/NDF : 98.4/88

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 467.237 $\pm$ 0.128 χ^2 /NDF: 1070636.9/18

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 491.468 $\pm$ 0.124 χ^2 /NDF: 1673431.6/21

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

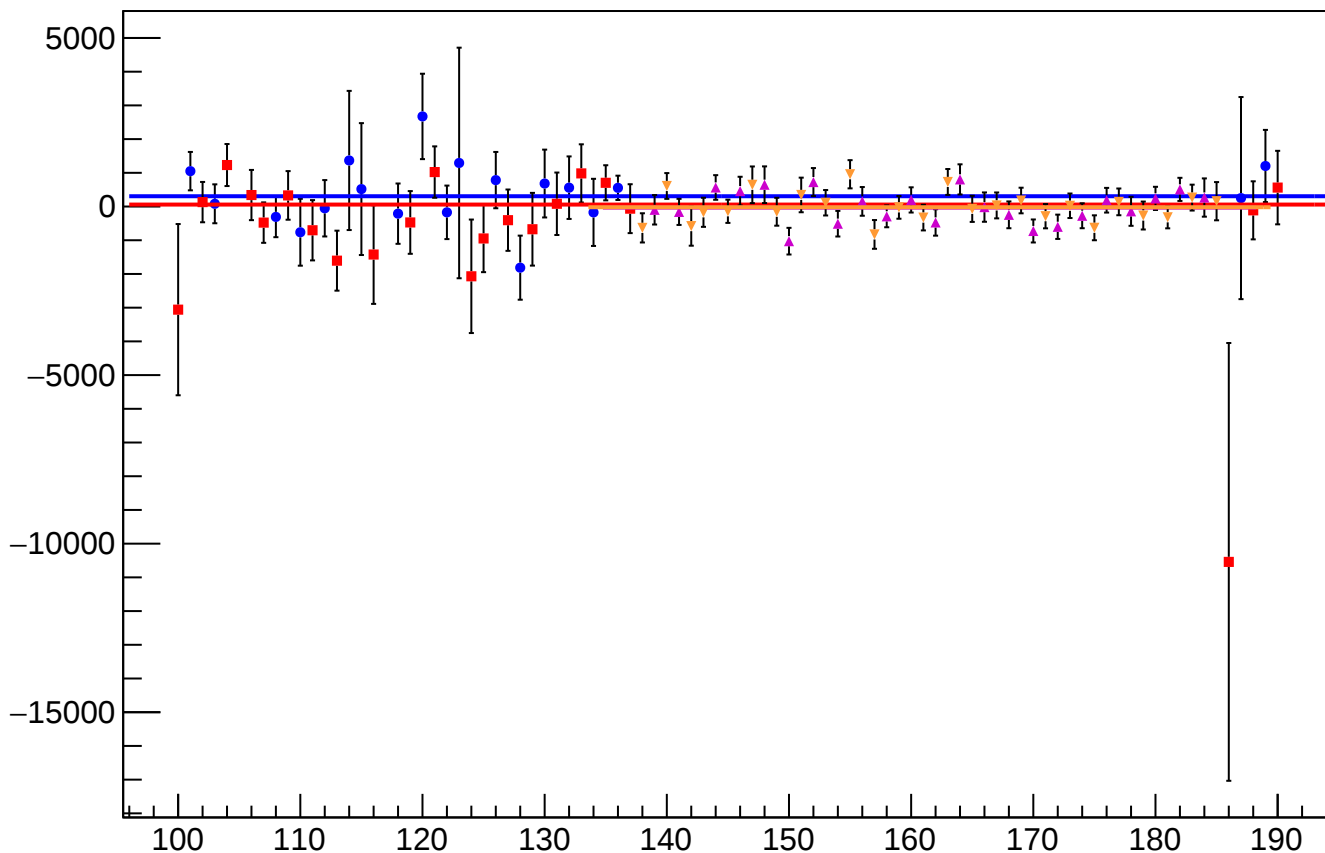
Right: 479.734 $\pm$ 0.089 χ^2 /NDF: 2762480.8/40

In: 356.073 $\pm$ 0.052 χ^2 /NDF: 2367401.9/41

Out: 360.848 $\pm$ 0.051 χ^2 /NDF: 3490437.1/46

All: 358.523 $\pm$ 0.036 χ^2 /NDF: 5862157.2/88

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 305.574 $\pm$ 183.472 χ^2 /NDF: 15.7/18

Left Out: -20.895 $\pm$ 79.812 χ^2 /NDF:27.2/24

Right Out: 58.319 $\pm$ 177.826 χ^2 /NDF: 22.3/21

Left In: -31.800 $\pm$ 81.839 χ^2 /NDF:34.0/22

Left: -26.211 $\pm$ 57.139 χ^2 /NDF: 61.3/47

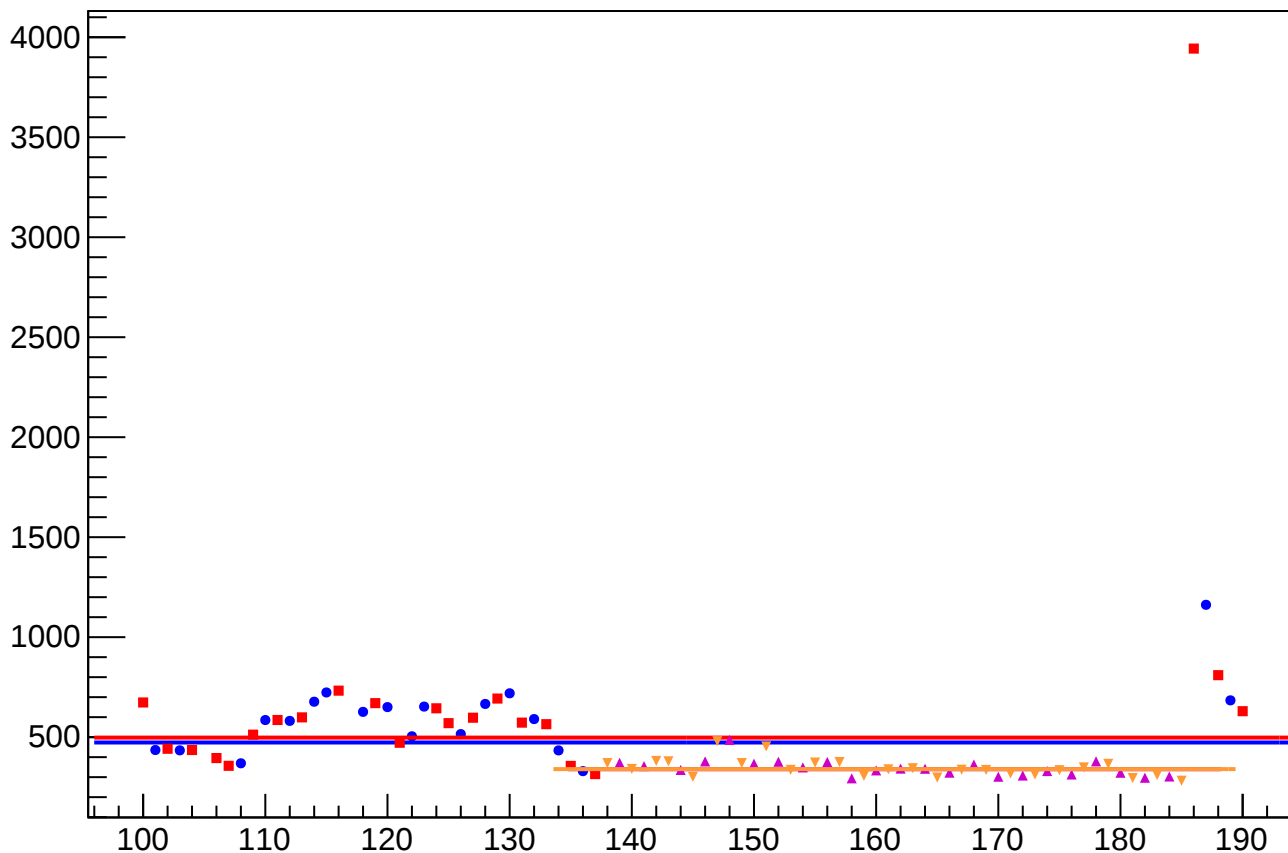
Right: 178.084 $\pm$ 127.691 χ^2 /NDF: 38.9/40

In: 24.187 $\pm$ 74.741 χ^2 /NDF:52.6/41

Out: -7.614 $\pm$ 72.814 χ^2 /NDF:49.6/46

All: 7.872 $\pm$ 52.155 χ^2 /NDF: 102.3/88

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 473.324+/-0.130 χ^2/NDF : 1035670.8/18

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 497.799+/-0.126 χ^2/NDF : 1633671.4/21

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

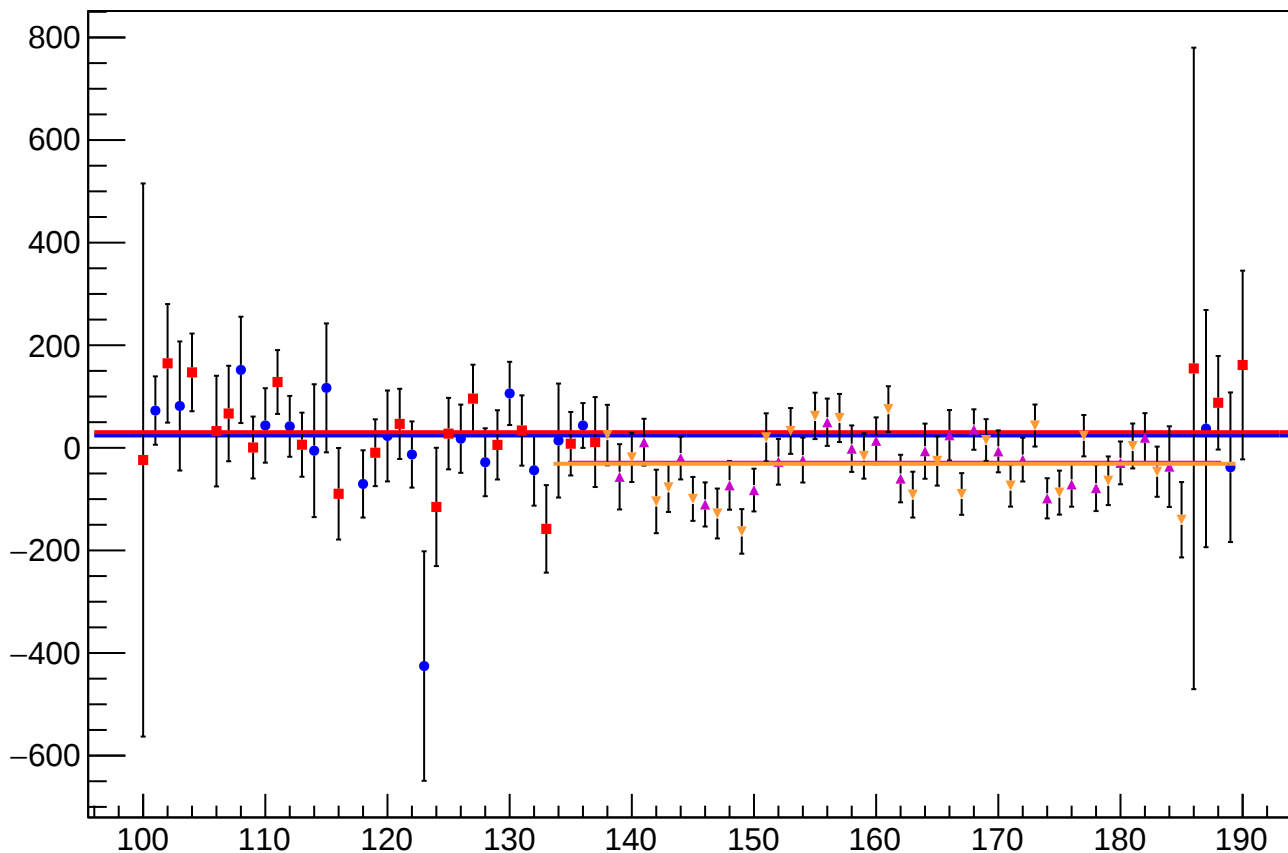
Right: 485.944+/-0.090 χ^2/NDF : 2687693.4/40

In: 361.809+/-0.053 χ^2/NDF : 2301343.5/41

Out: 366.655+/-0.051 χ^2/NDF : 3409425.7/46

All: 364.295+/-0.037 χ^2/NDF : 5715083.0/88

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 24.124+/-17.687 χ^2/NDF : 13.2/18

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 30.465+/-17.046 χ^2/NDF : 17.7/21

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

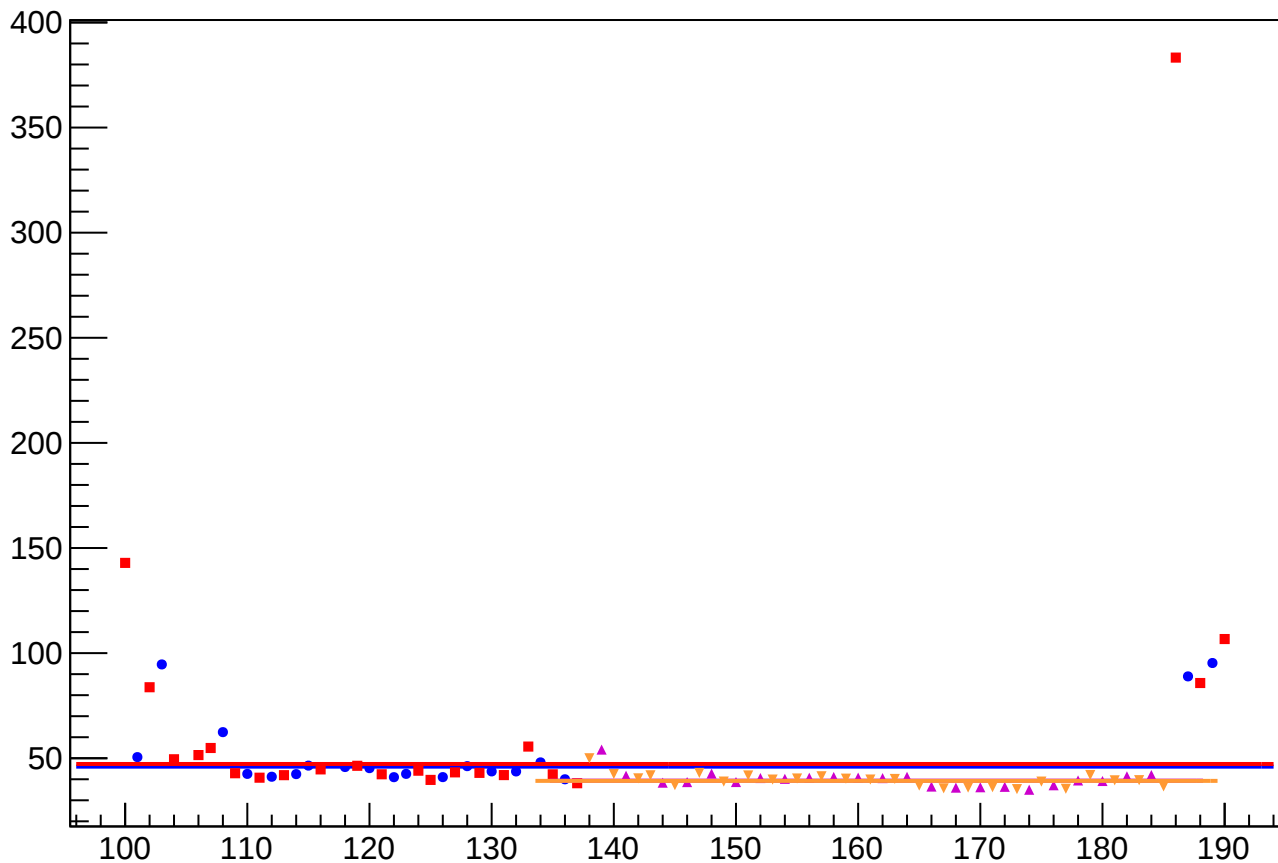
Right: 27.411+/-12.274 χ^2/NDF : 31.0/40

In: -17.247+/-8.335 χ^2/NDF : 42.7/41

Out: -17.255+/-8.075 χ^2/NDF : 80.4/46

All: -17.251+/-5.800 χ^2/NDF : 123.1/88

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 46.006 $\pm$ 0.013 χ^2 /NDF: 741934.8/18

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 47.271 $\pm$ 0.012 χ^2 /NDF: 1587939.4/21

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

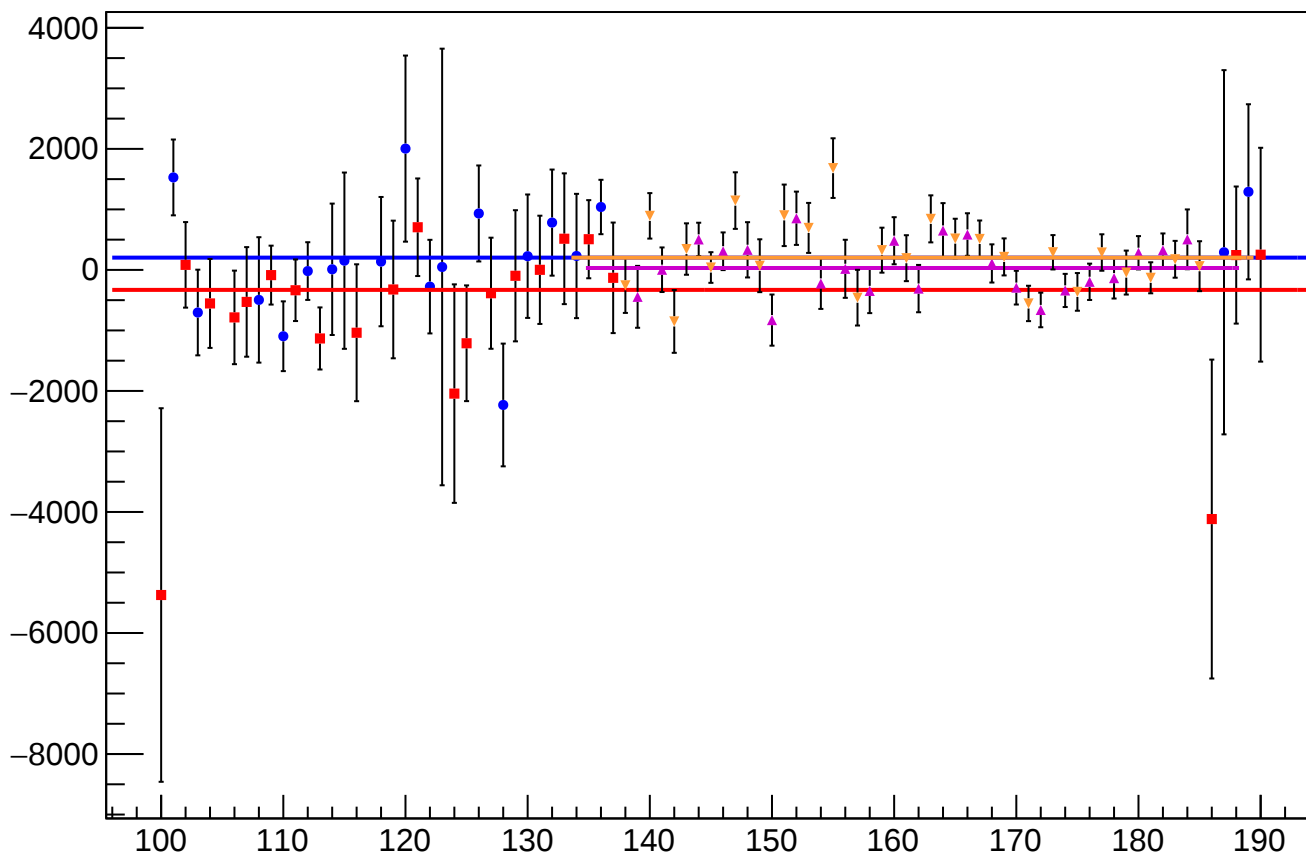
Right: 46.662 $\pm$ 0.009 χ^2 /NDF: 2335176.3/40

In: 40.819 $\pm$ 0.006 χ^2 /NDF: 1178754.0/41

Out: 41.039 $\pm$ 0.006 χ^2 /NDF: 2134638.1/46

All: 40.932 $\pm$ 0.004 χ^2 /NDF: 3314108.0/88

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 202.994 $\pm$ 187.088 χ^2 /NDF: 24.7/18

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -330.158 $\pm$ 176.189 χ^2 /NDF: 15.0/21

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

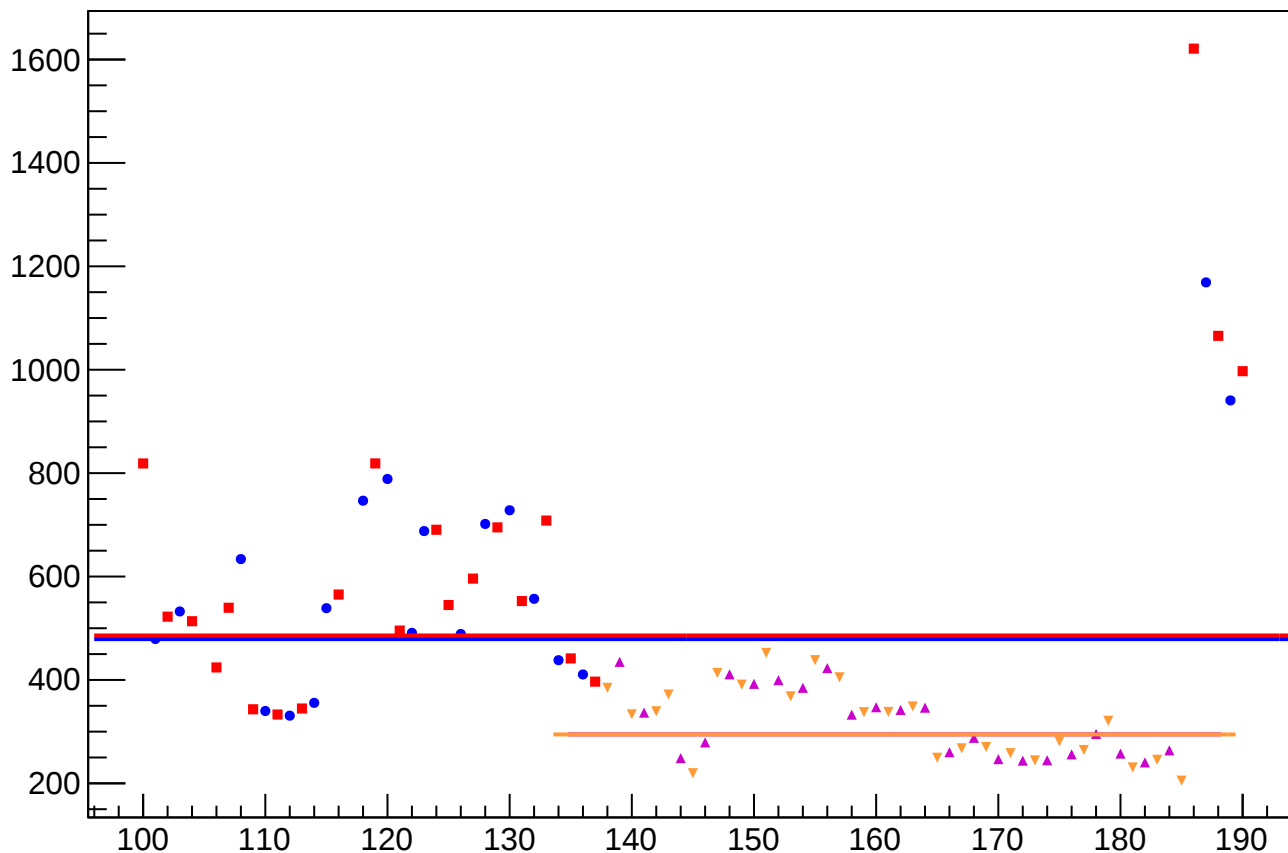
Right: -79.563 $\pm$ 128.264 χ^2 /NDF: 44.0/40

In: 53.718 $\pm$ 67.277 χ^2 /NDF:58.8/41

Out: 129.006 $\pm$ 65.395 χ^2 /NDF:67.6/46

All: 92.430 $\pm$ 46.893 χ^2 /NDF: 127.1/88

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 478.974 ± 0.132 $\chi^2/\text{NDF}: 1198788.5/18$

Left Out: 294.591 ± 0.050 $\chi^2/\text{NDF}: 1680474.5/24$

Right Out: 486.001 ± 0.125 $\chi^2/\text{NDF}: 2059476.9/21$

Left In: 294.722 ± 0.051 $\chi^2/\text{NDF}: 1297310.3/22$

Left: 294.655 ± 0.036 $\chi^2/\text{NDF}: 2977788.1/47$

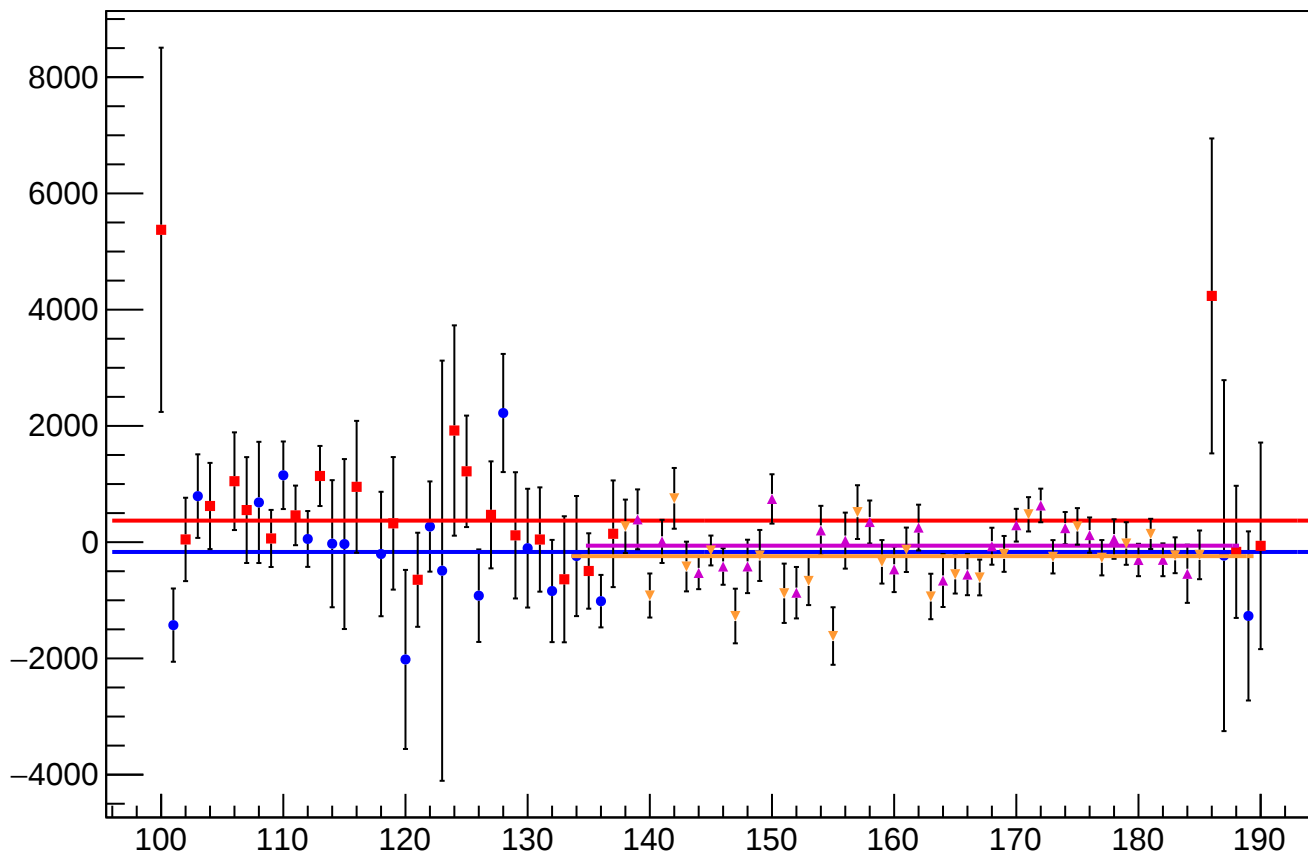
Right: 482.698 ± 0.091 $\chi^2/\text{NDF}: 3259760.9/40$

In: 318.548 ± 0.048 $\chi^2/\text{NDF}: 4185082.2/41$

Out: 320.961 ± 0.046 $\chi^2/\text{NDF}: 5775250.1/46$

All: 319.789 ± 0.033 $\chi^2/\text{NDF}: 9961654.9/88$

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -168.564+/-188.243 χ^2/NDF : 24.7/18

Left Out: -240.357+/-71.100 χ^2/NDF : 42.9/24

Right Out: 370.846+/-178.012 χ^2/NDF : 14.8/21

Left In: -60.330+/-72.788 χ^2/NDF : 30.9/22

Left: -152.455+/-50.862 χ^2/NDF : 77.0/47

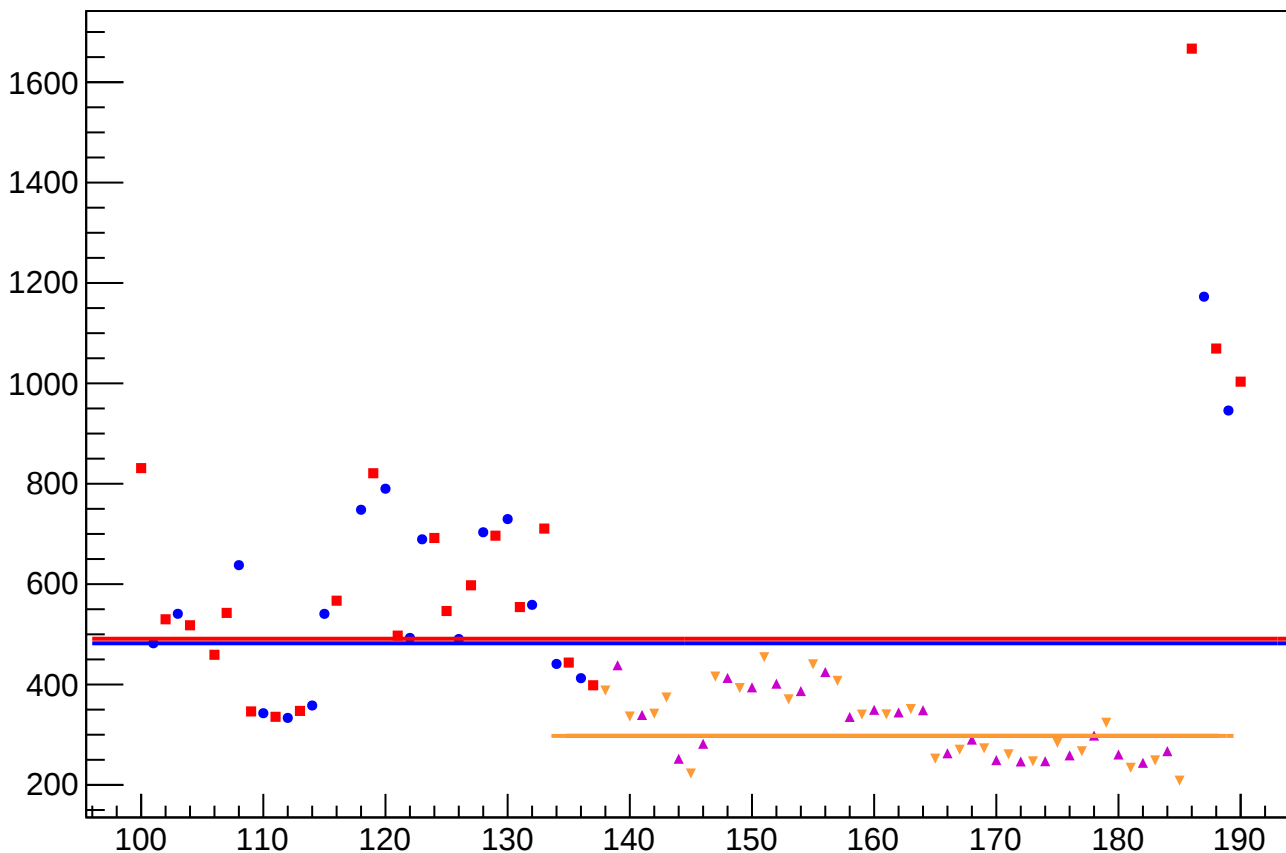
Right: 116.198+/-129.339 χ^2/NDF : 43.8/40

In: -74.407+/-67.890 χ^2/NDF : 55.9/41

Out: -156.266+/-66.028 χ^2/NDF : 67.9/46

All: -116.474+/-47.333 χ^2/NDF : 124.5/88

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 482.123+/-0.133 χ^2/NDF : 1189349.5/18

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 491.236+/-0.126 χ^2/NDF : 2042823.2/21

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

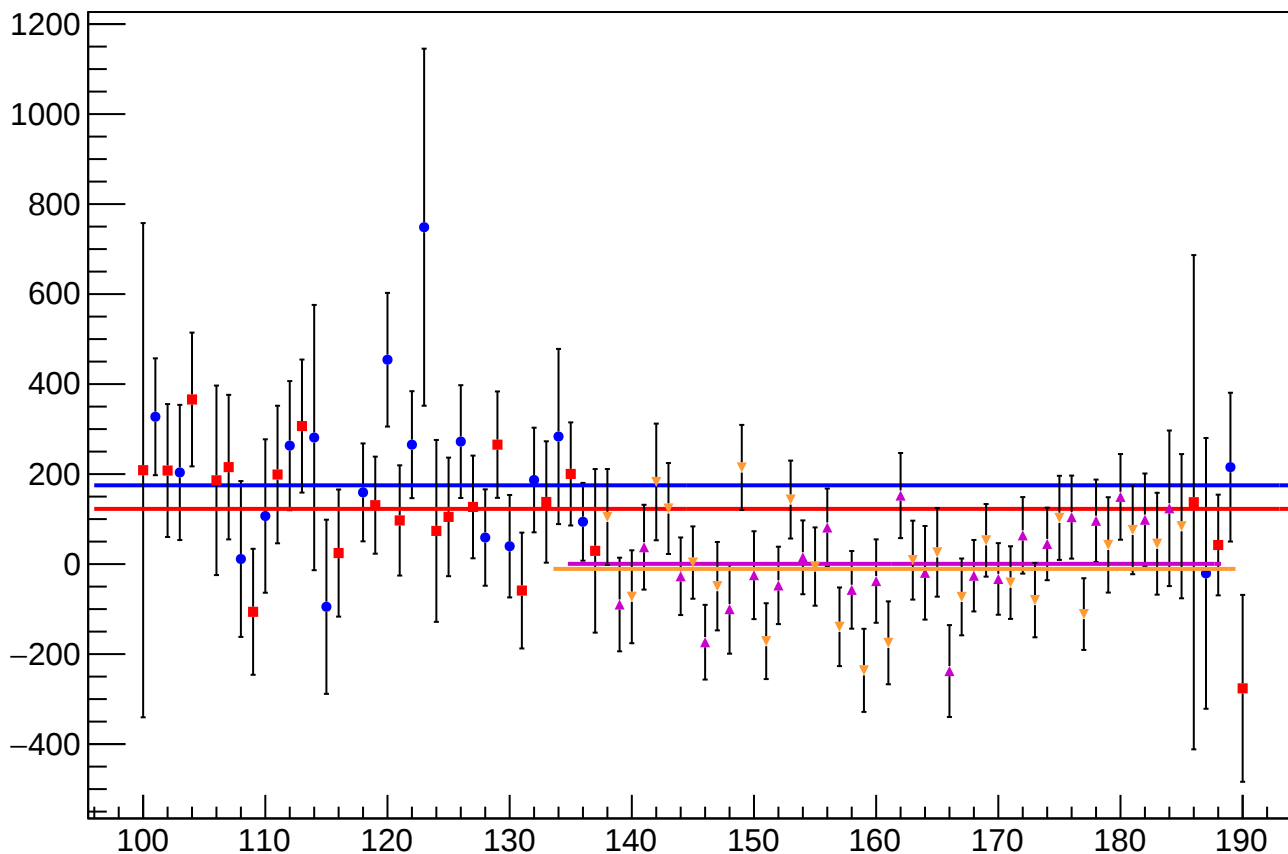
Right: 486.934+/-0.091 χ^2/NDF : 3234647.1/40

In: 321.686+/-0.048 χ^2/NDF : 4125631.7/41

Out: 324.252+/-0.047 χ^2/NDF : 5721215.4/46

All: 323.005+/-0.033 χ^2/NDF : 9848314.9/88

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 175.035 $\pm$ 32.021 χ^2 /NDF: 16.0/18

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 122.712 $\pm$ 30.761 χ^2 /NDF: 16.9/21

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

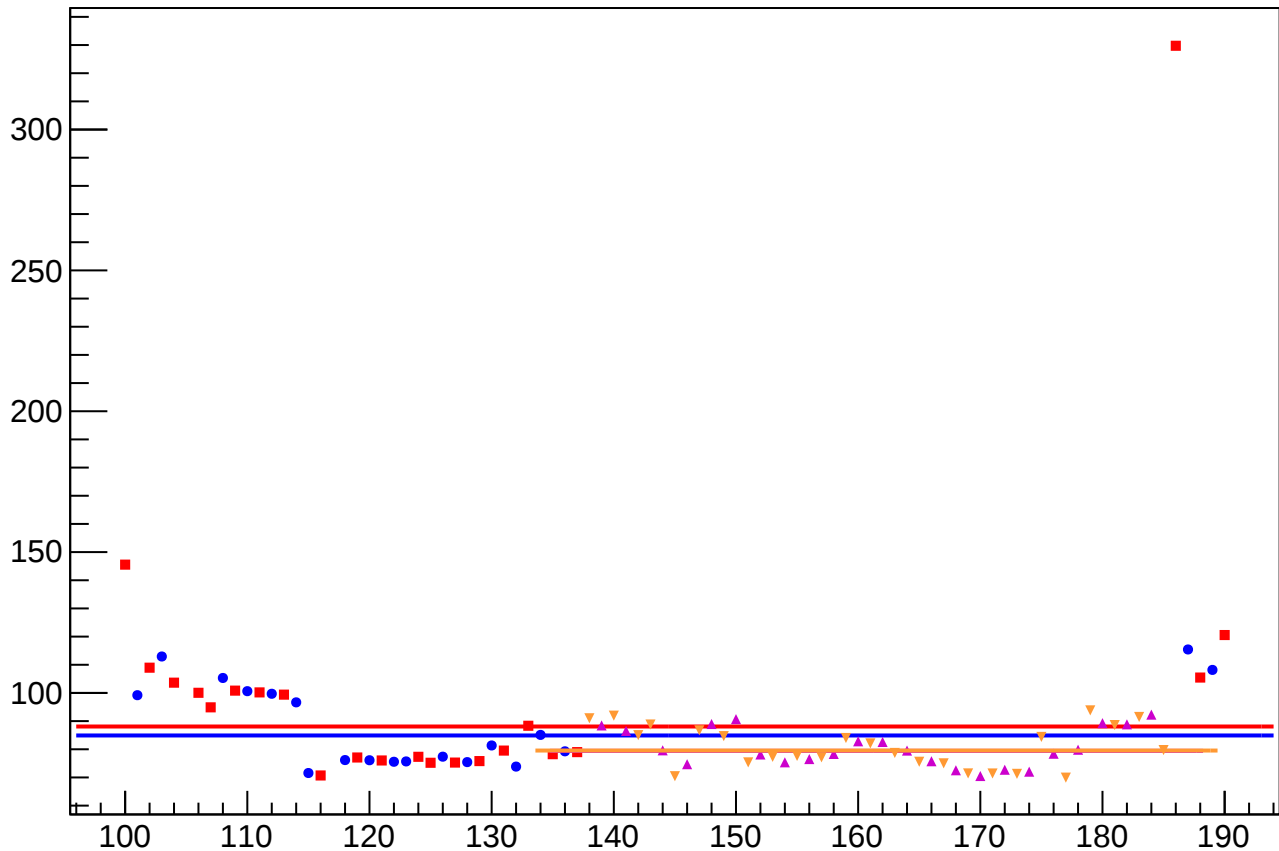
Right: 147.824 $\pm$ 22.184 χ^2 /NDF: 34.3/40

In: 46.326 $\pm$ 16.398 χ^2 /NDF:61.7/41

Out: 25.069 $\pm$ 15.923 χ^2 /NDF:67.0/46

All: 35.385 $\pm$ 11.423 χ^2 /NDF: 129.6/88

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 84.903 $\pm$ 0.023 χ^2 /NDF: 317533.3/18

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 88.085 $\pm$ 0.022 χ^2 /NDF: 789676.5/21

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

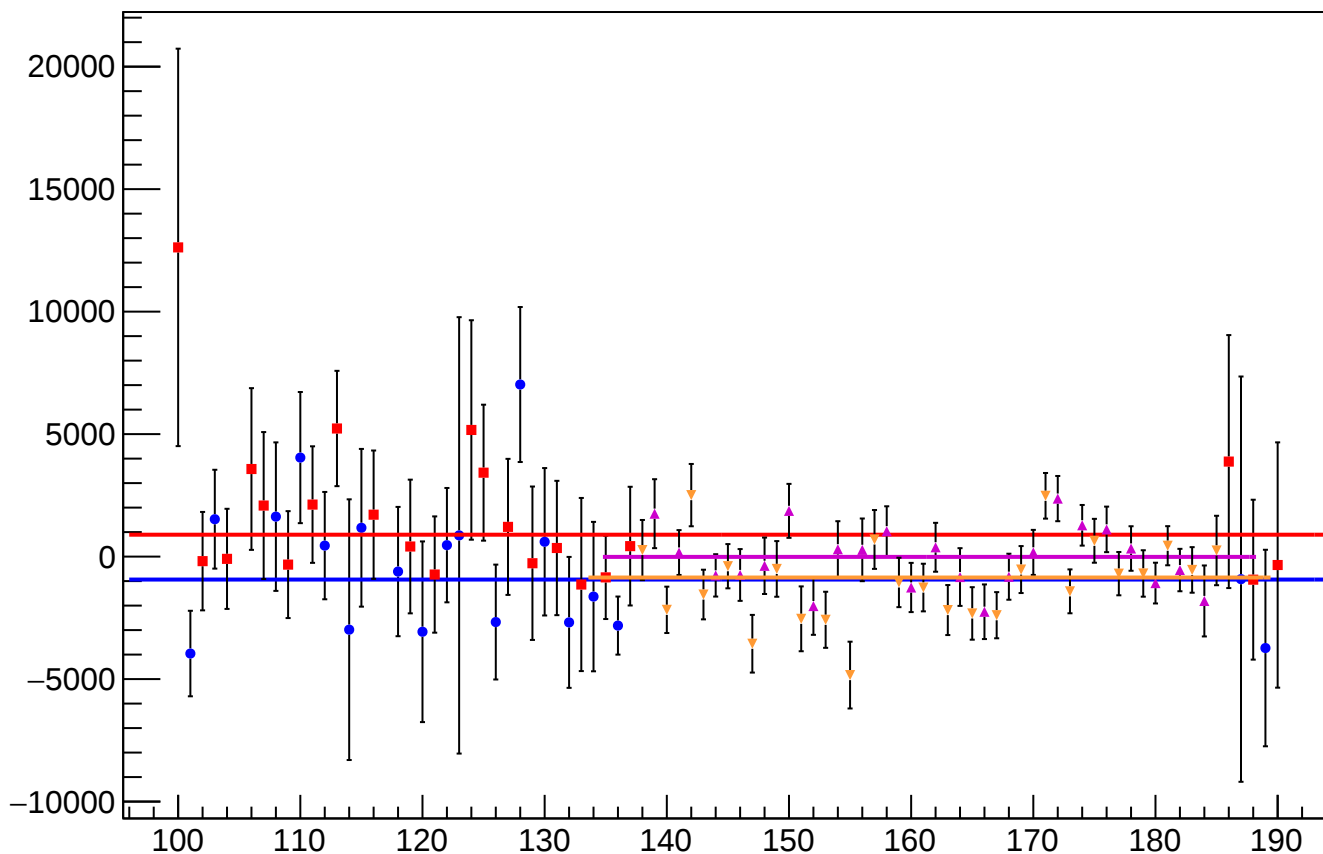
Right: 86.558 $\pm$ 0.016 χ^2 /NDF: 1117482.2/40

In: 80.870 $\pm$ 0.012 χ^2 /NDF:572979.6/41

Out: 81.838 $\pm$ 0.011 χ^2 /NDF:1211451.4/46

All: 81.368 $\pm$ 0.008 χ^2 /NDF: 1788014.9/88

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -937.016+/-576.986 χ^2/NDF : 21.0/18

Left Out: -854.130+/-204.090 χ^2/NDF : 56.0/24

Right Out: 893.984+/-573.326 χ^2/NDF : 12.1/21

Left In: -11.687+/-210.073 χ^2/NDF : 31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

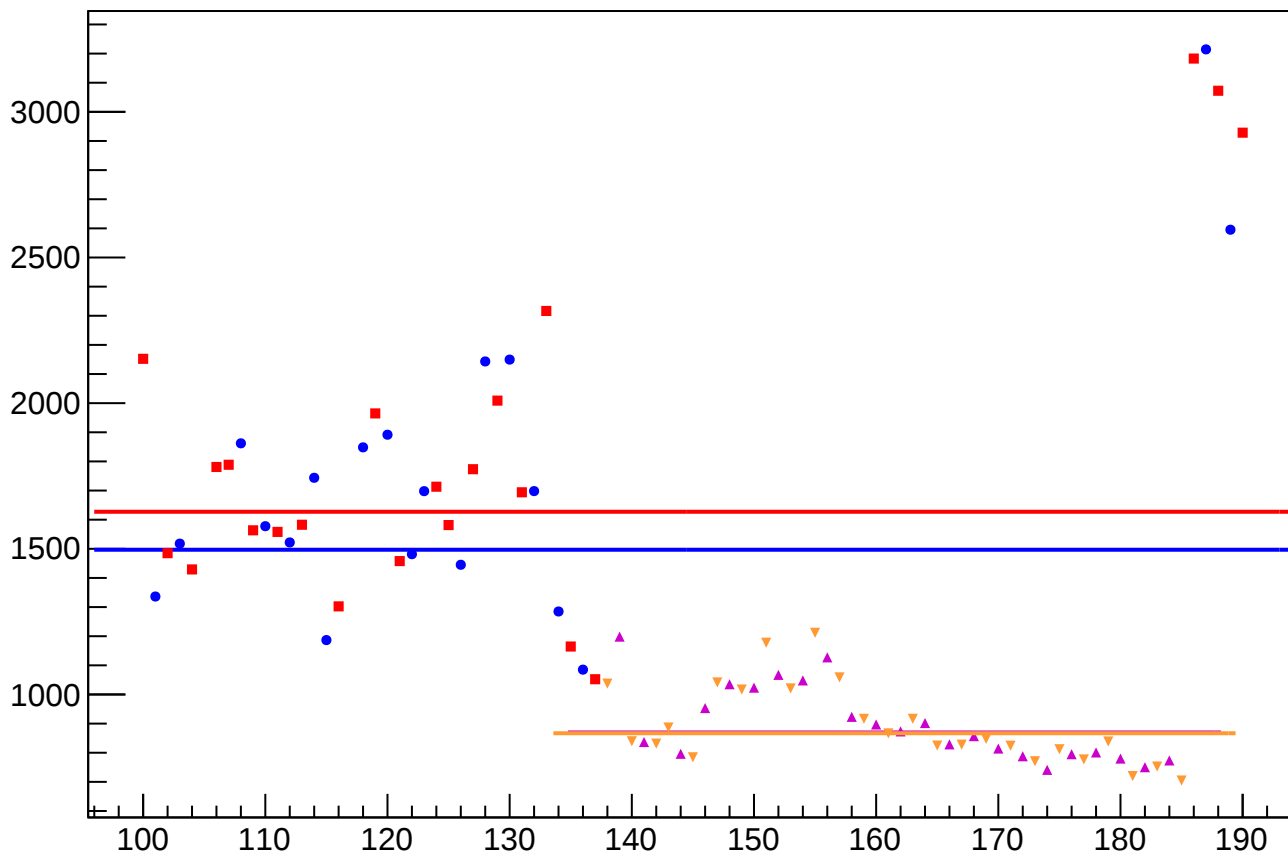
Right: -15.690+/-406.691 χ^2/NDF : 38.1/40

In: -119.991+/-197.397 χ^2/NDF : 54.5/41

Out: -657.525+/-192.271 χ^2/NDF : 76.3/46

All: -395.827+/-137.733 χ^2/NDF : 134.6/88

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1496.826 $\pm$ 0.408 χ^2/NDF : 807553.3/18

Left Out: 866.893 $\pm$ 0.144 χ^2/NDF : 661712.5/24

Right Out: 1627.195 $\pm$ 0.405 χ^2/NDF : 1206302.7/21

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

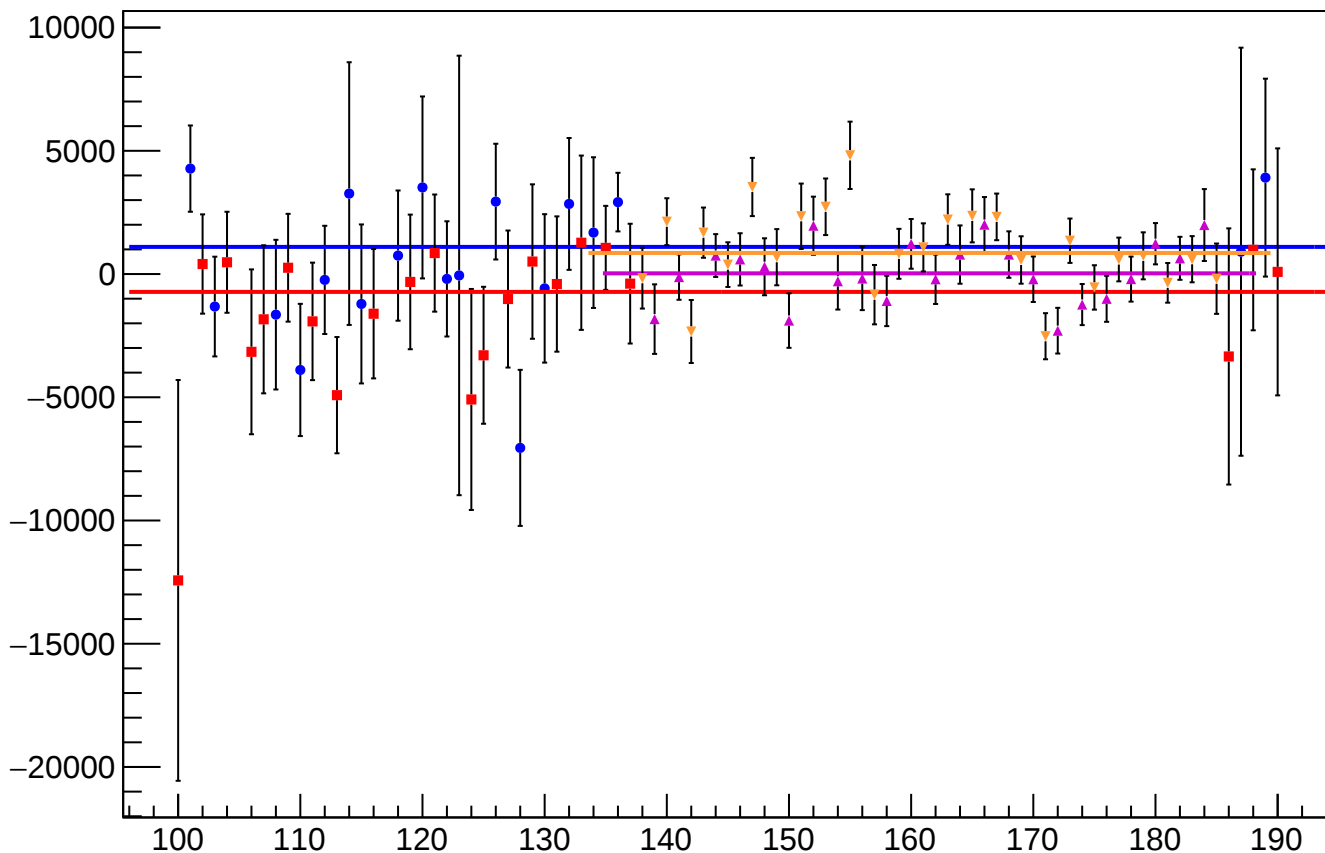
Right: 1562.425 $\pm$ 0.288 χ^2/NDF : 2065233.3/40

In: 942.985 $\pm$ 0.140 χ^2/NDF : 3476887.2/41

Out: 952.402 $\pm$ 0.136 χ^2/NDF : 4989651.8/46

All: 947.818 $\pm$ 0.097 χ^2/NDF : 8468874.5/88

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1101.324+/-578.166 χ^2/NDF : 21.7/18

Left Out: 855.664+/-205.047 χ^2/NDF : 54.1/24

Right Out: -724.658+/-574.601 χ^2/NDF : 11.6/21

Left In: 28.553+/-211.034 χ^2/NDF : 29.7/22

Left: 454.007+/-147.061 χ^2/NDF : 91.7/47

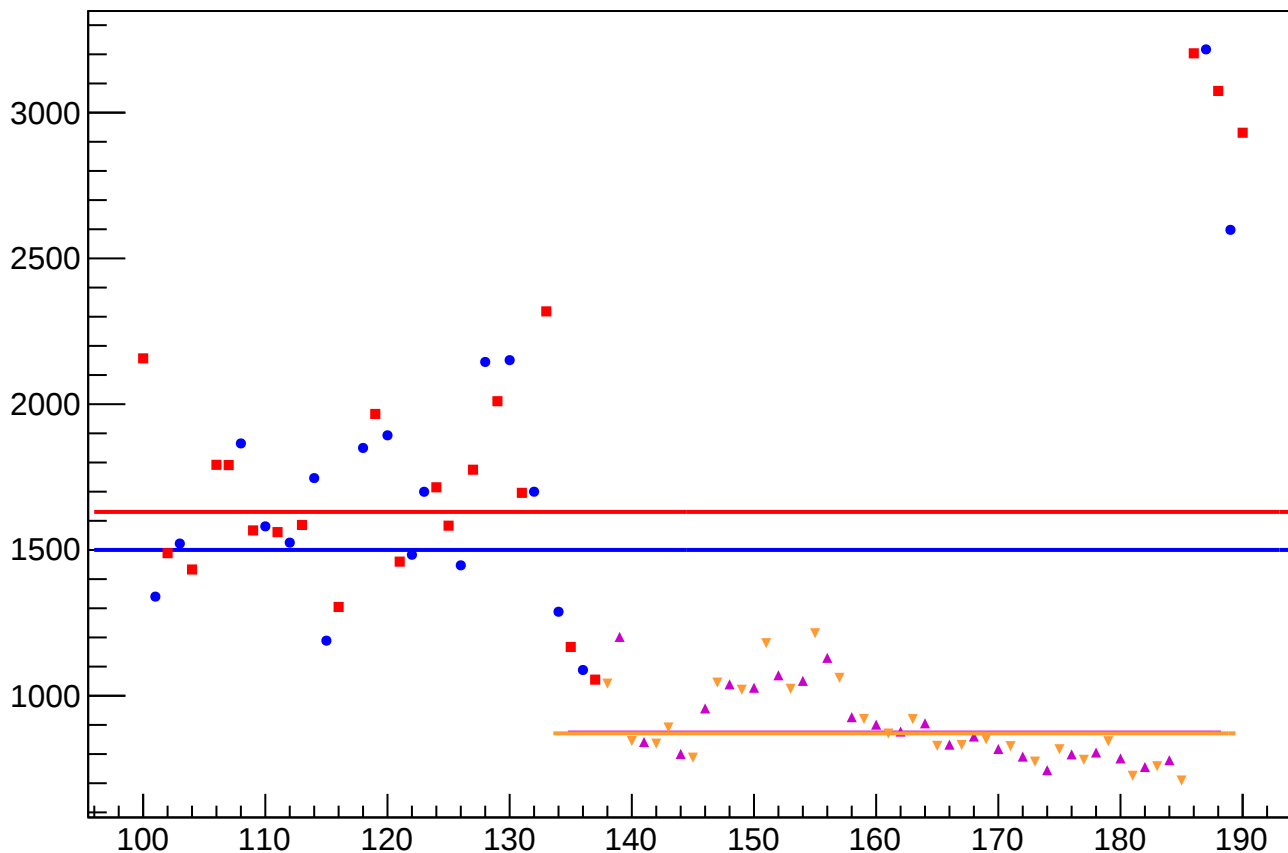
Right: 182.687+/-407.559 χ^2/NDF : 38.3/40

In: 154.674+/-198.241 χ^2/NDF : 54.5/41

Out: 677.154+/-193.119 χ^2/NDF : 72.3/46

All: 422.751+/-138.331 χ^2/NDF : 130.3/88

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1500.153+/-0.409 χ^2/NDF : 803393.4/18

Left Out: 871.109+/-0.145 χ^2/NDF : 651751.1/24

Right Out: 1630.523+/-0.406 χ^2/NDF : 1204382.6/21

Left In: 873.675+/-0.149 χ^2/NDF : 573822.5/22

Left: 872.355+/-0.104 χ^2/NDF : 1225725.6/47

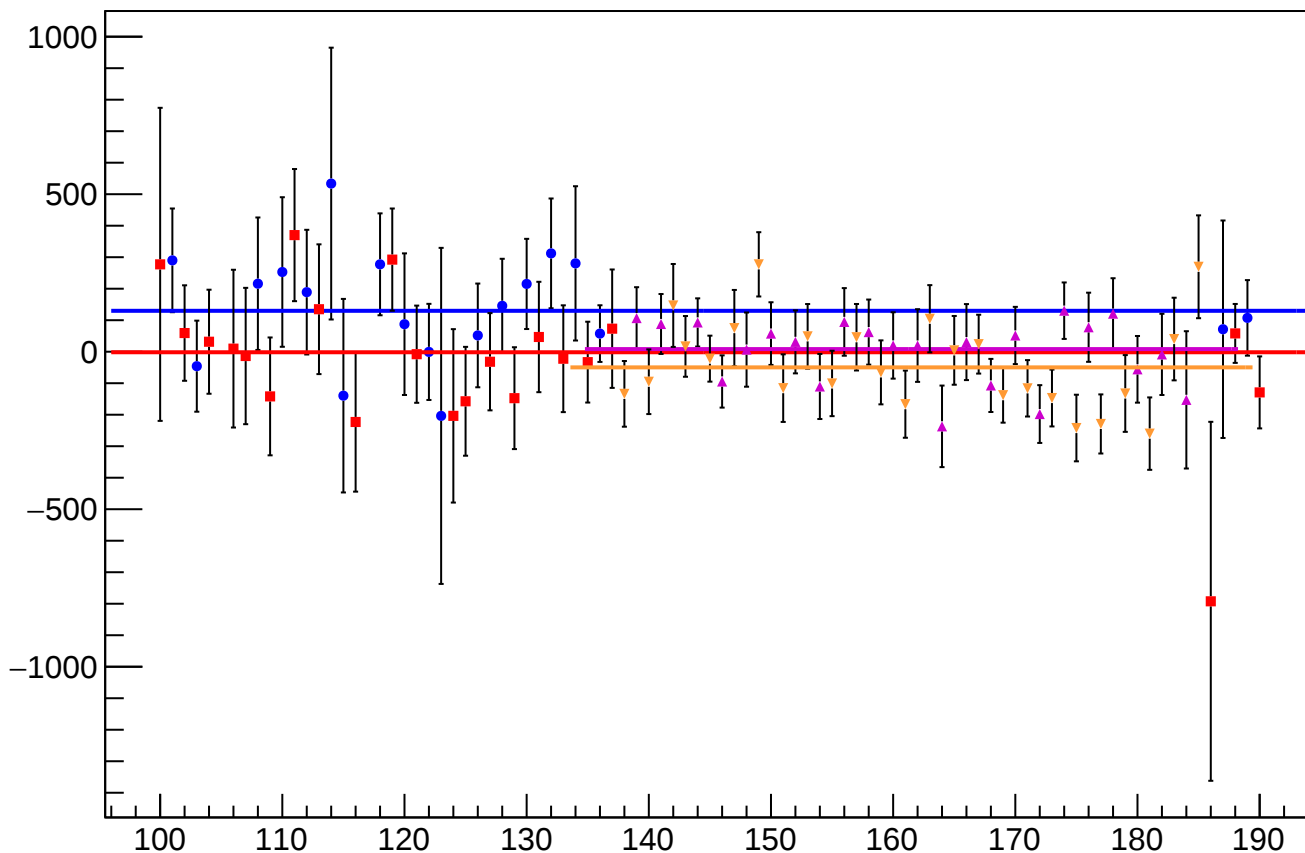
Right: 1565.741+/-0.288 χ^2/NDF : 2058935.5/40

In: 947.328+/-0.140 χ^2/NDF : 3449356.9/41

Out: 956.891+/-0.137 χ^2/NDF : 4954964.9/46

All: 952.234+/-0.098 χ^2/NDF : 8406709.9/88

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 129.838 $\pm$ 39.136 χ^2 /NDF: 9.4/18

Left Out: -49.717 $\pm$ 20.580 χ^2 /NDF:39.4/24

Right Out: -1.731 $\pm$ 35.937 χ^2 /NDF: 15.0/21

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

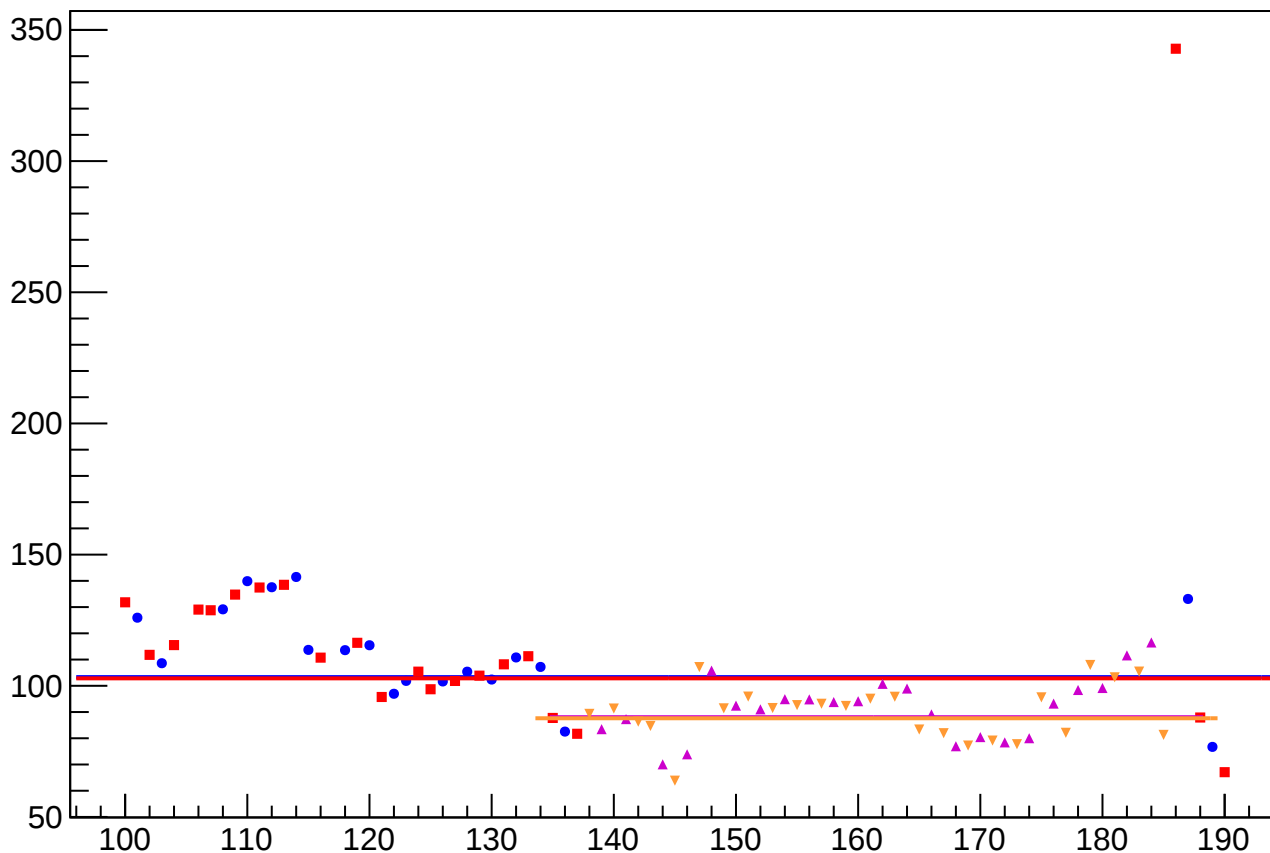
Right: 58.457 $\pm$ 26.470 χ^2 /NDF: 30.5/40

In: 36.049 $\pm$ 18.689 χ^2 /NDF:38.8/41

Out: -37.866 $\pm$ 17.859 χ^2 /NDF:55.8/46

All: -2.586 $\pm$ 12.912 χ^2 /NDF: 102.8/88

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 103.311 $\pm$ 0.028 χ^2 /NDF: 438311.9/18

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF:554690.7/24

Right Out: 102.839 $\pm$ 0.025 χ^2 /NDF: 932634.8/21

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

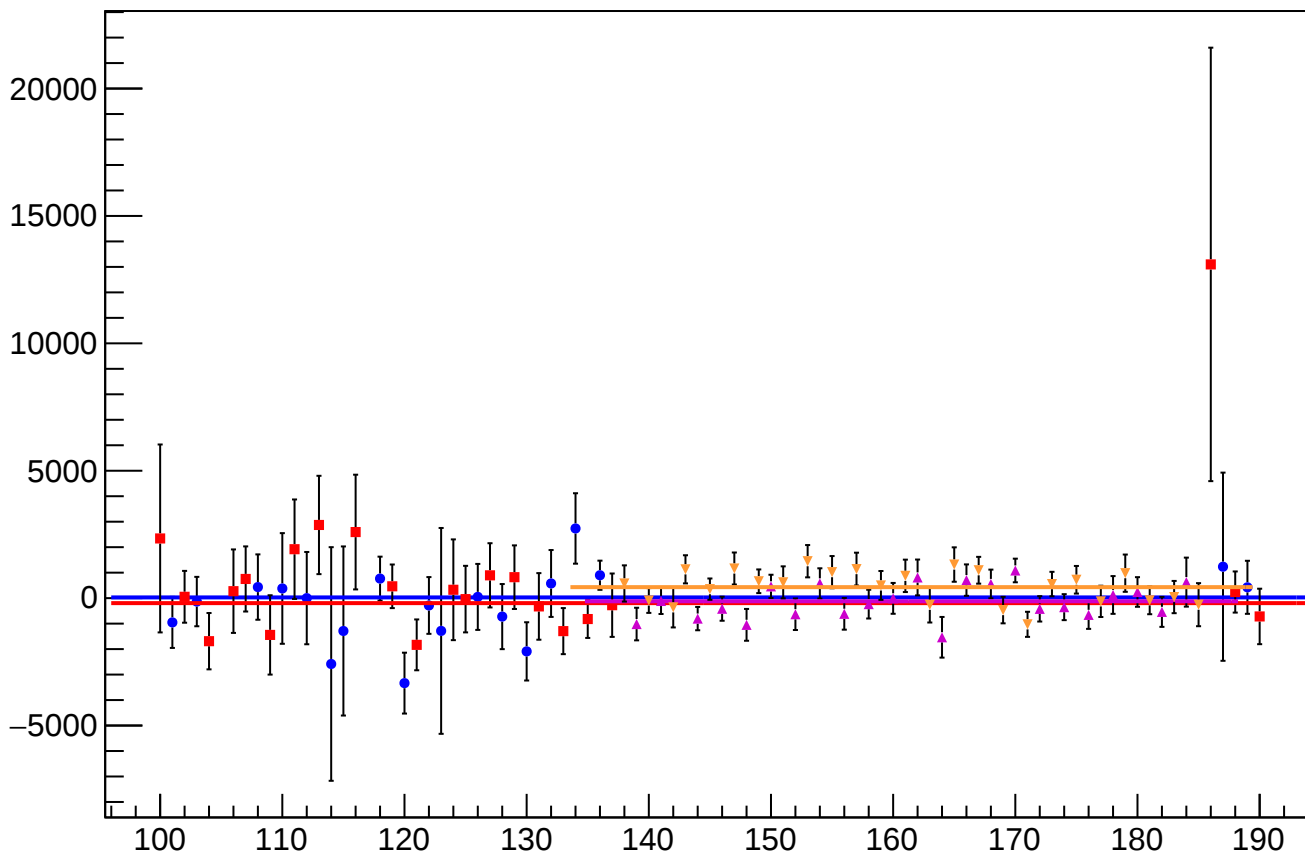
Right: 103.055 $\pm$ 0.019 χ^2 /NDF: 1371104.1/40

In: 91.516 $\pm$ 0.013 χ^2 /NDF:1197333.8/41

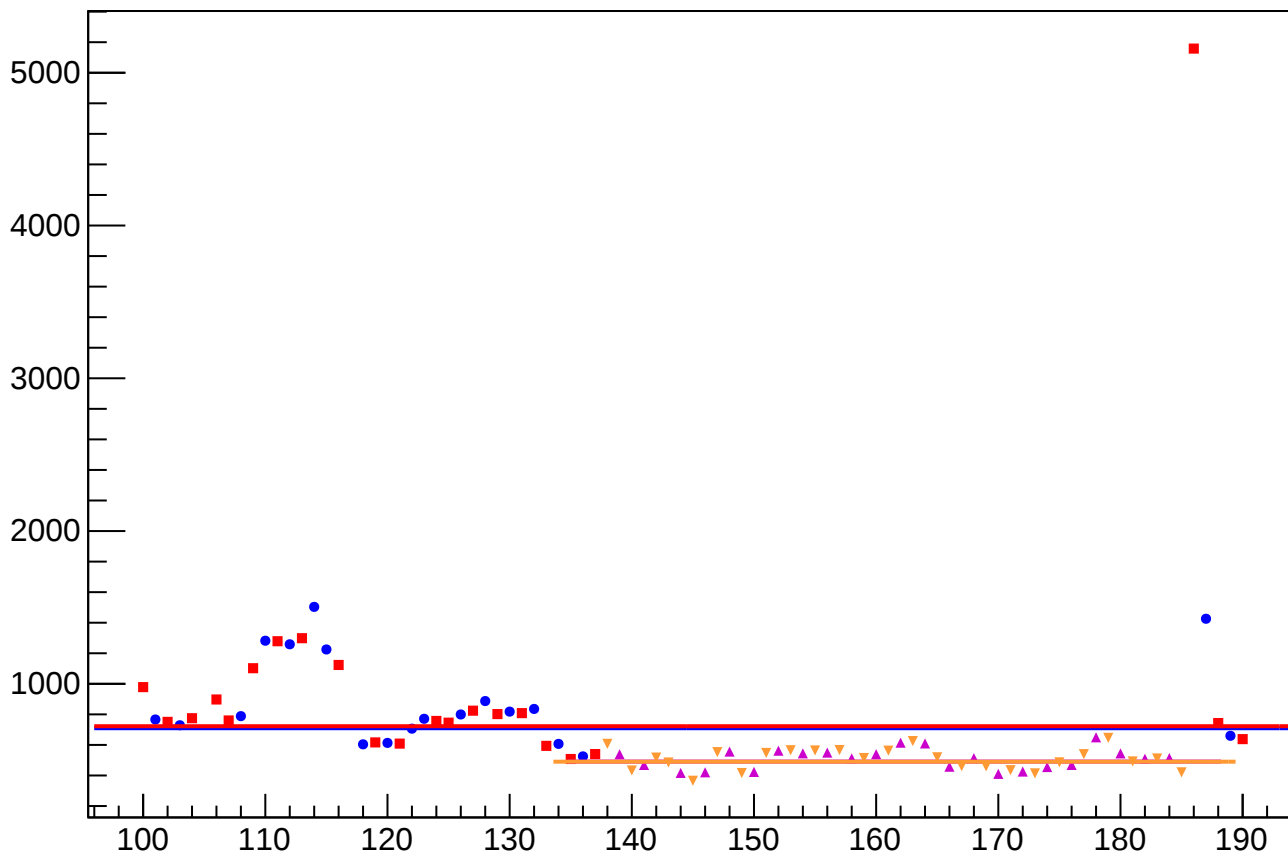
Out: 91.383 $\pm$ 0.013 χ^2 /NDF:1757256.5/46

All: 91.447 $\pm$ 0.009 χ^2 /NDF: 2954643.7/88

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 709.368 $\pm$ 0.193 χ^2 /NDF: 873342.4/18

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 722.409 $\pm$ 0.182 χ^2 /NDF: 1459166.8/21

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

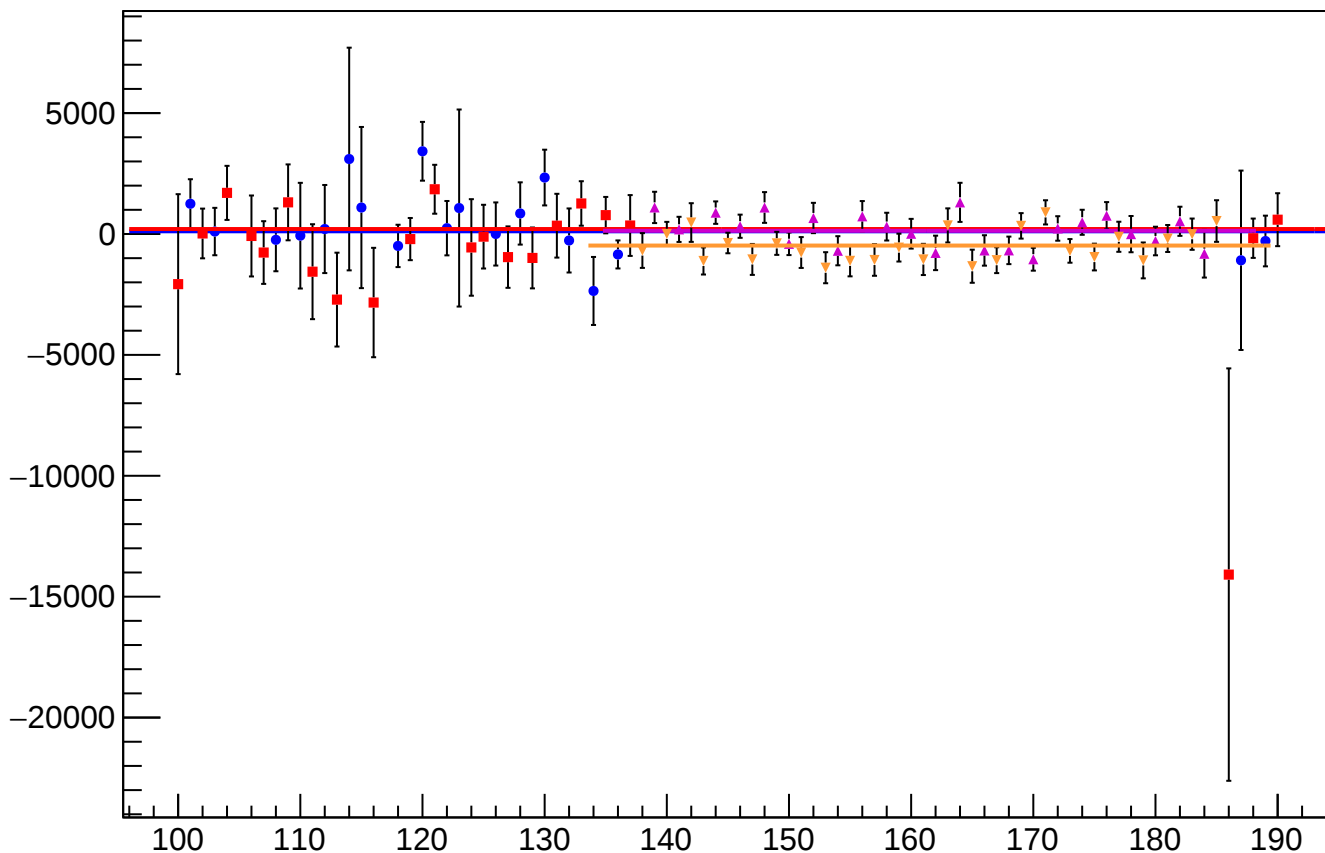
Right: 716.292 $\pm$ 0.132 χ^2 /NDF: 2334923.9/40

In: 525.616 $\pm$ 0.077 χ^2 /NDF: 2536107.4/41

Out: 529.377 $\pm$ 0.075 χ^2 /NDF: 3565759.9/46

All: 527.557 $\pm$ 0.054 χ^2 /NDF: 6103096.5/88

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 111.640 $\pm$ 276.712 χ^2 /NDF: 20.0/18

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 205.022 $\pm$ 260.136 χ^2 /NDF: 18.0/21

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

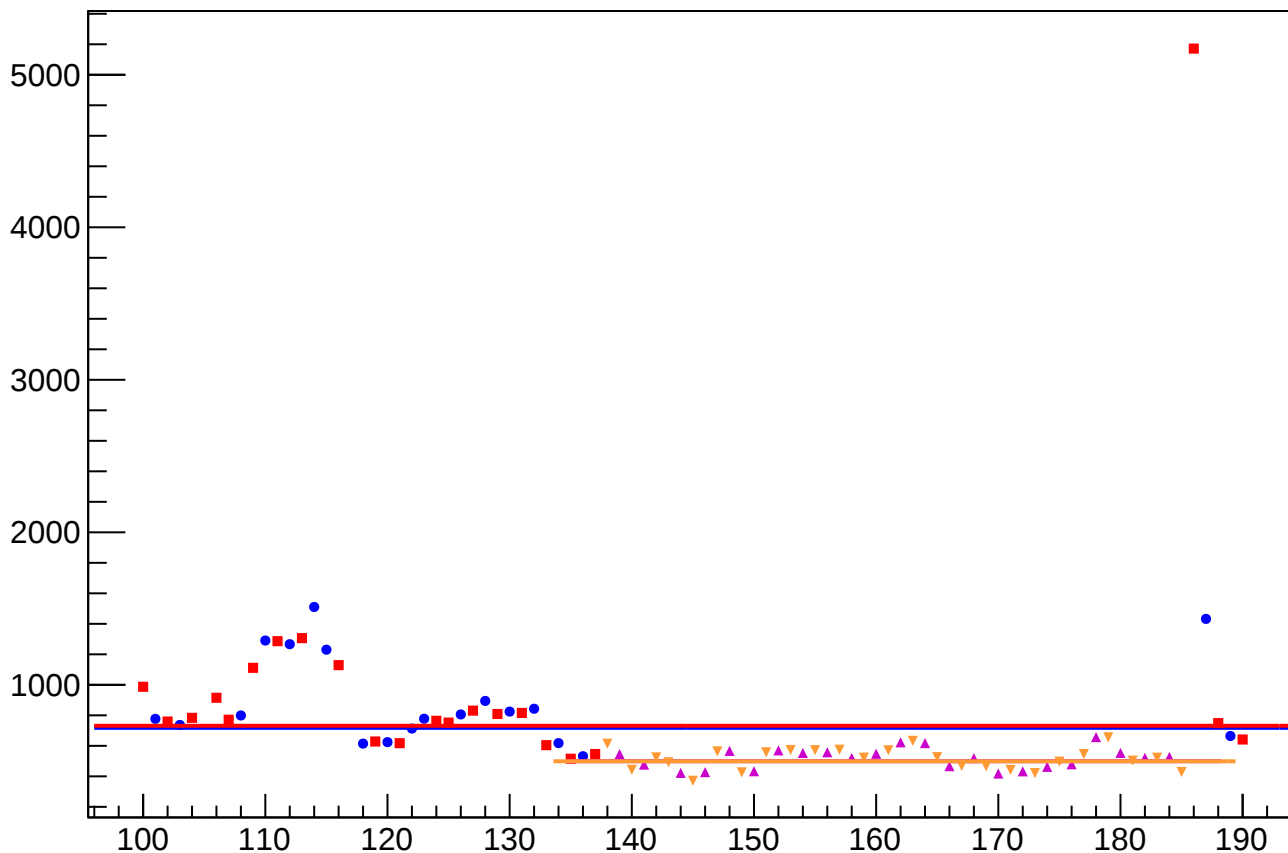
Right: 161.212 $\pm$ 189.533 χ^2 /NDF: 38.1/40

In: 129.194 $\pm$ 110.761 χ^2 /NDF:49.6/41

Out: -362.165 $\pm$ 107.203 χ^2 /NDF:51.6/46

All: -124.504 $\pm$ 77.031 χ^2 /NDF: 111.3/88

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 718.269 $\pm$ 0.196 χ^2 /NDF: 857833.8/18

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 731.545 $\pm$ 0.184 χ^2 /NDF: 1440237.4/21

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

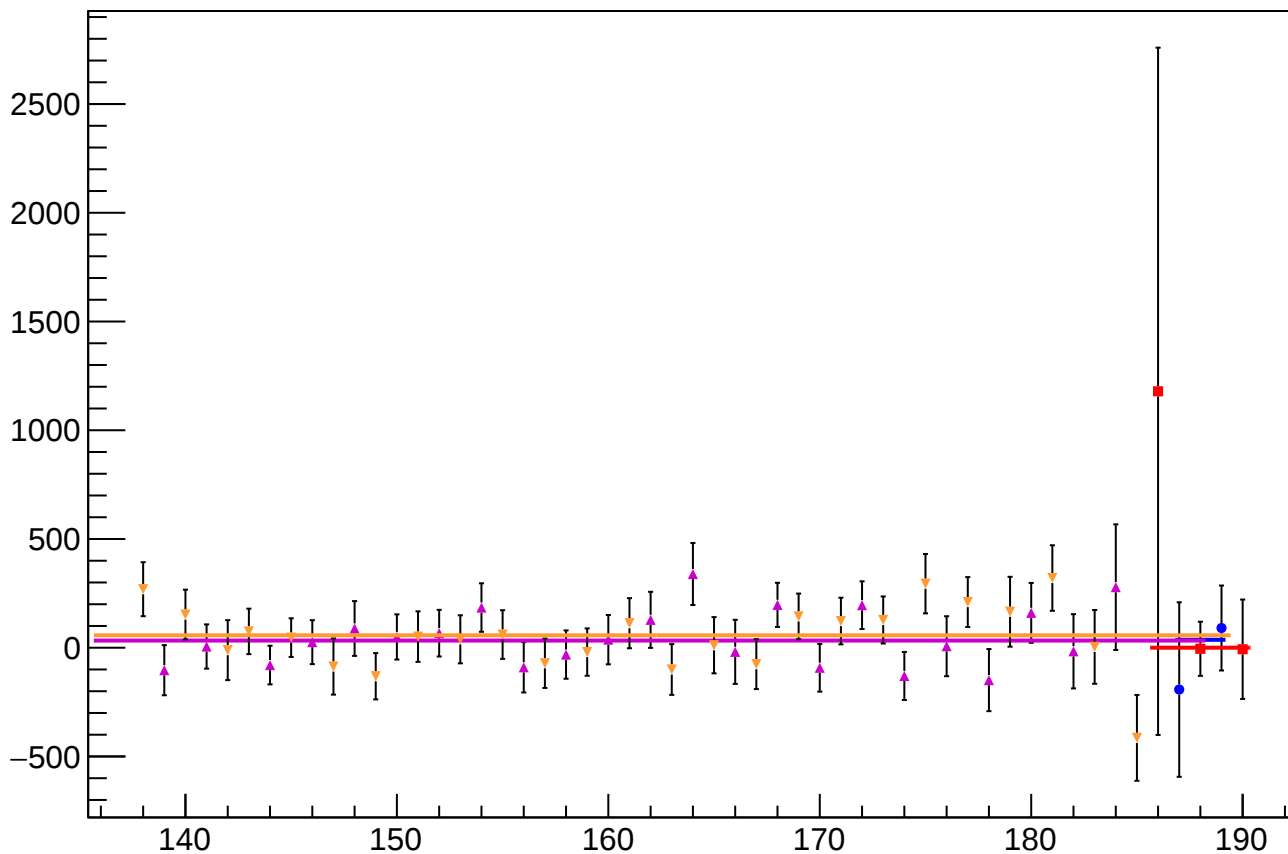
Right: 725.316 $\pm$ 0.134 χ^2 /NDF: 2300515.1/40

In: 534.461 $\pm$ 0.078 χ^2 /NDF: 2485208.9/41

Out: 538.289 $\pm$ 0.076 χ^2 /NDF: 3504157.3/46

All: 536.438 $\pm$ 0.054 χ^2 /NDF: 5990599.6/88

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 36.446 $\pm$ 175.597 χ^2 /NDF: 0.4/1

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: 0.196 $\pm$ 109.022 χ^2 /NDF: 0.6/2

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

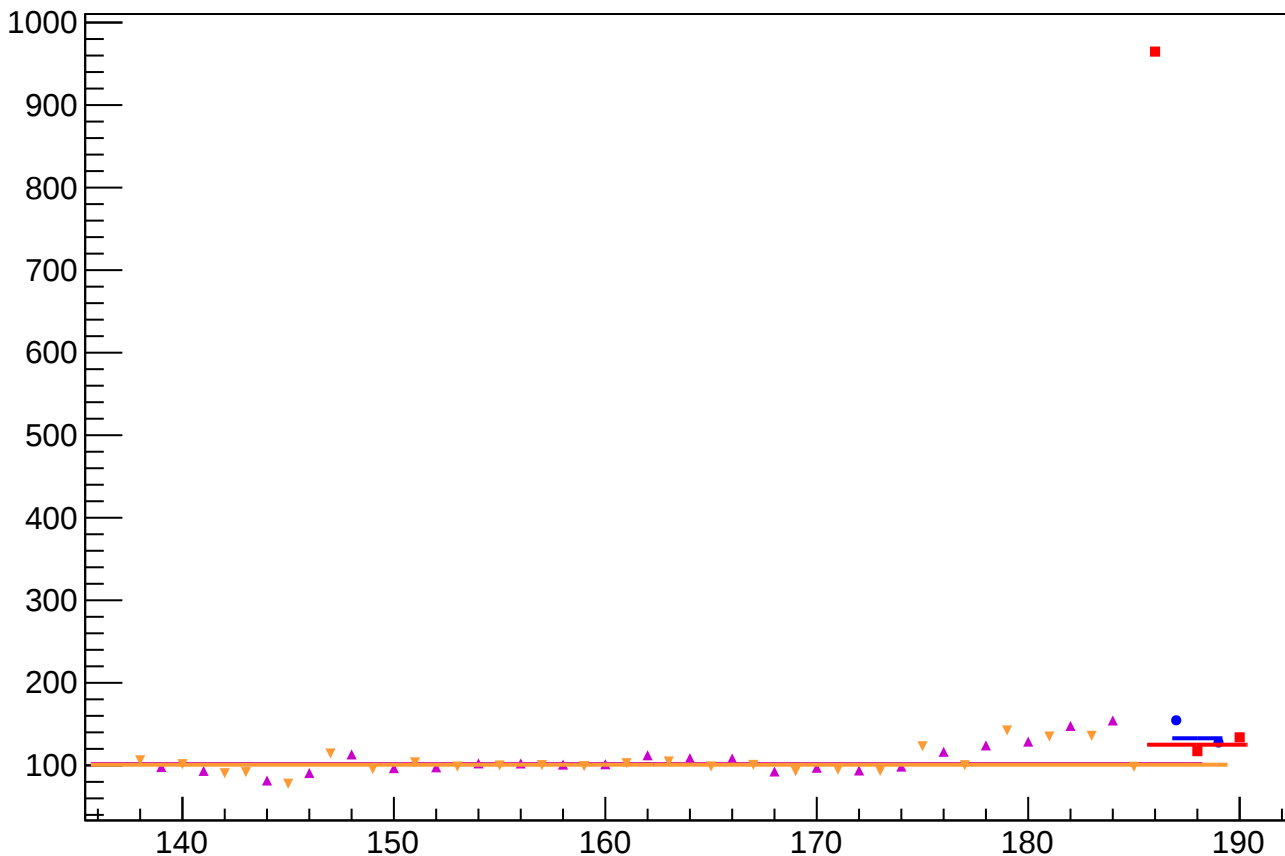
Right: 10.281 $\pm$ 92.622 χ^2 /NDF: 1.0/4

In: 33.015 $\pm$ 24.350 χ^2 /NDF:24.0/24

Out: 54.635 $\pm$ 23.172 χ^2 /NDF:30.0/27

All: 44.361 $\pm$ 16.786 χ^2 /NDF: 54.4/52

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 132.832 $\pm$ 0.124 χ^2 /NDF: 7297.0/1

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 125.043 $\pm$ 0.077 χ^2 /NDF: 575862.2/2

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

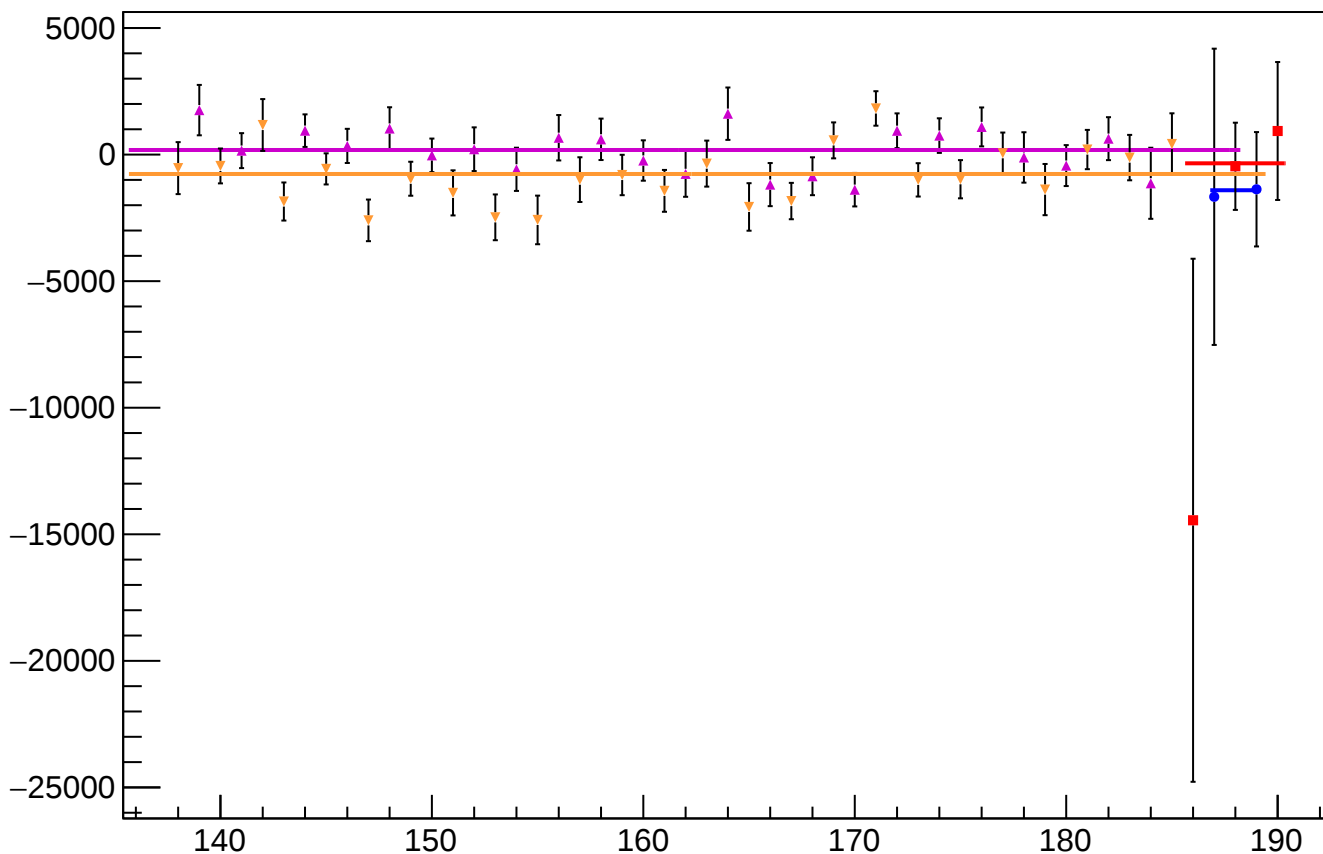
Right: 127.210 $\pm$ 0.065 χ^2 /NDF: 585999.8/4

In: 102.222 $\pm$ 0.017 χ^2 /NDF: 651593.3/24

Out: 101.896 $\pm$ 0.016 χ^2 /NDF: 1270784.1/27

All: 102.051 $\pm$ 0.012 χ^2 /NDF: 1922565.9/52

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1408.497+/-2107.598 χ^2/NDF : 0.0/1

Left Out: -766.358+/-161.066 χ^2/NDF : 46.5/24

Right Out: -344.623+/-1441.708 χ^2/NDF : 2.1/2

Left In: 181.584+/-165.671 χ^2/NDF : 25.0/22

Left: -305.743+/-115.485 χ^2/NDF : 88.4/47

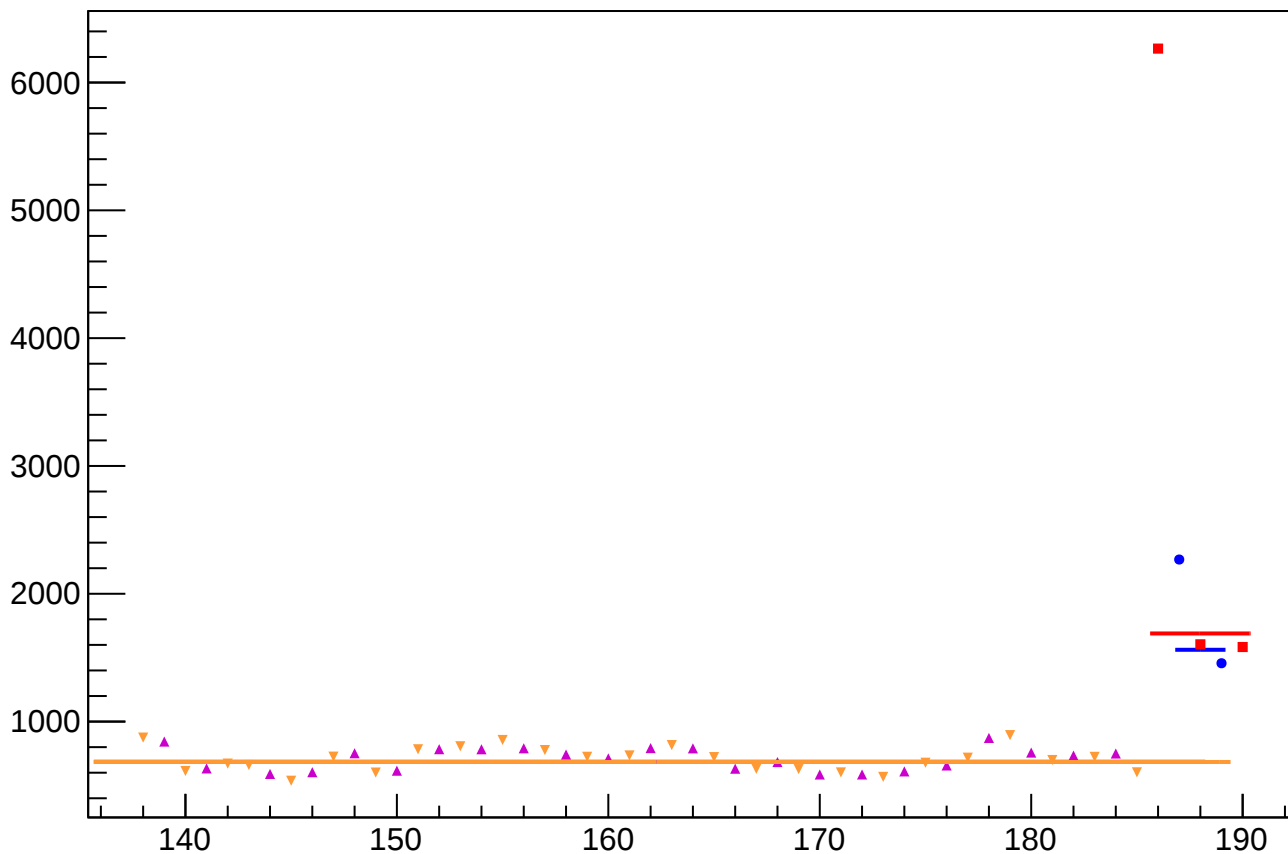
Right: -683.752+/-1189.940 χ^2/NDF : 2.3/4

In: 171.819+/-165.161 χ^2/NDF : 25.6/24

Out: -761.159+/-160.070 χ^2/NDF : 48.7/27

All: -309.270+/-114.945 χ^2/NDF : 90.7/52

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1561.751+/-1.490 χ^2/NDF : 33460.3/1

Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24

Right Out: 1689.469+/-1.019 χ^2/NDF : 400214.6/2

Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47

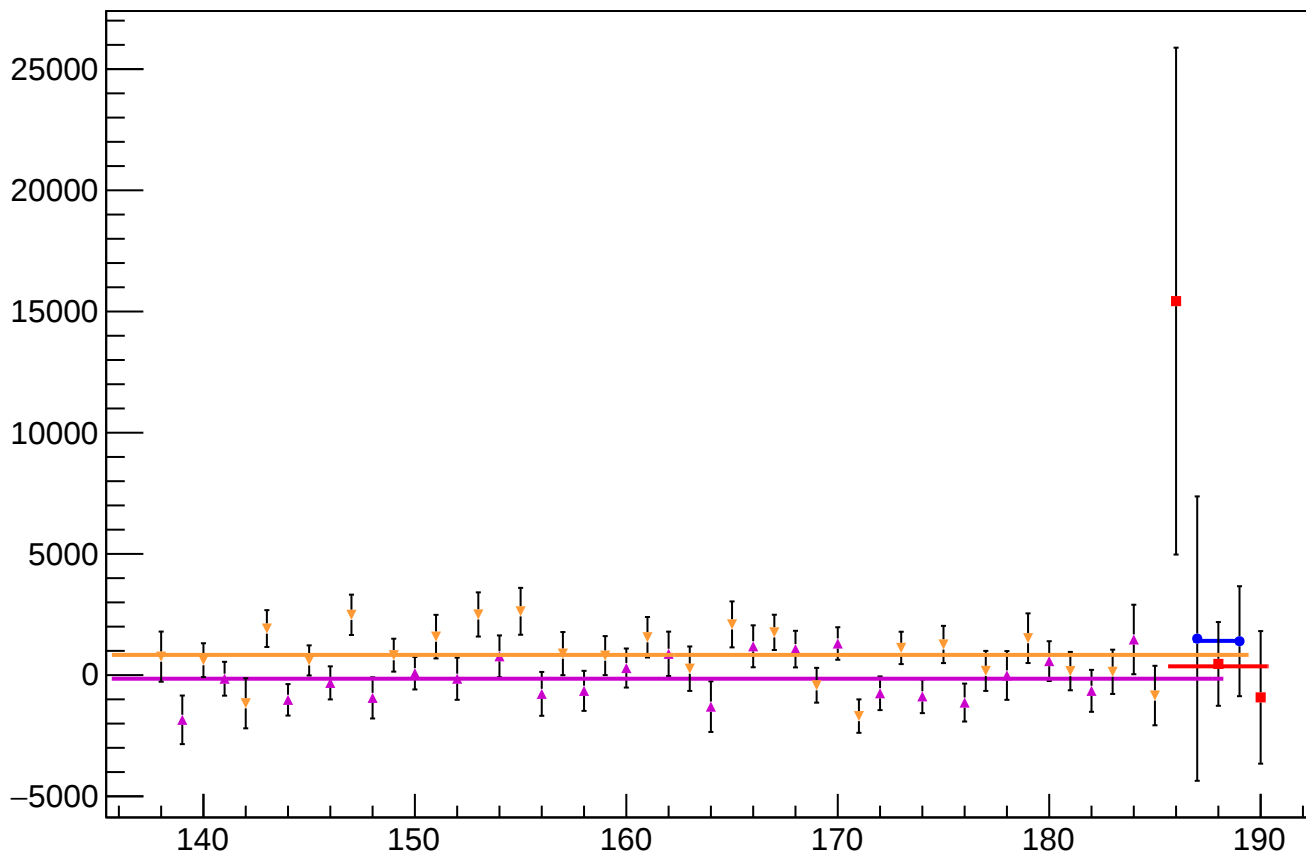
Right: 1648.757+/-0.841 χ^2/NDF : 438678.2/4

In: 690.973+/-0.117 χ^2/NDF : 906328.0/24

Out: 696.281+/-0.113 χ^2/NDF : 2028377.5/27

All: 693.710+/-0.081 χ^2/NDF : 2935770.3/52

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1412.450+/-2115.695 χ^2/NDF : 0.0/1

Left Out: 833.395+/-162.965 χ^2/NDF : 43.2/24

Right Out: 362.042+/-1446.513 χ^2/NDF : 2.3/2

Left In: -148.814+/-167.644 χ^2/NDF : 26.0/22

Left: 356.189+/-116.853 χ^2/NDF : 86.9/47

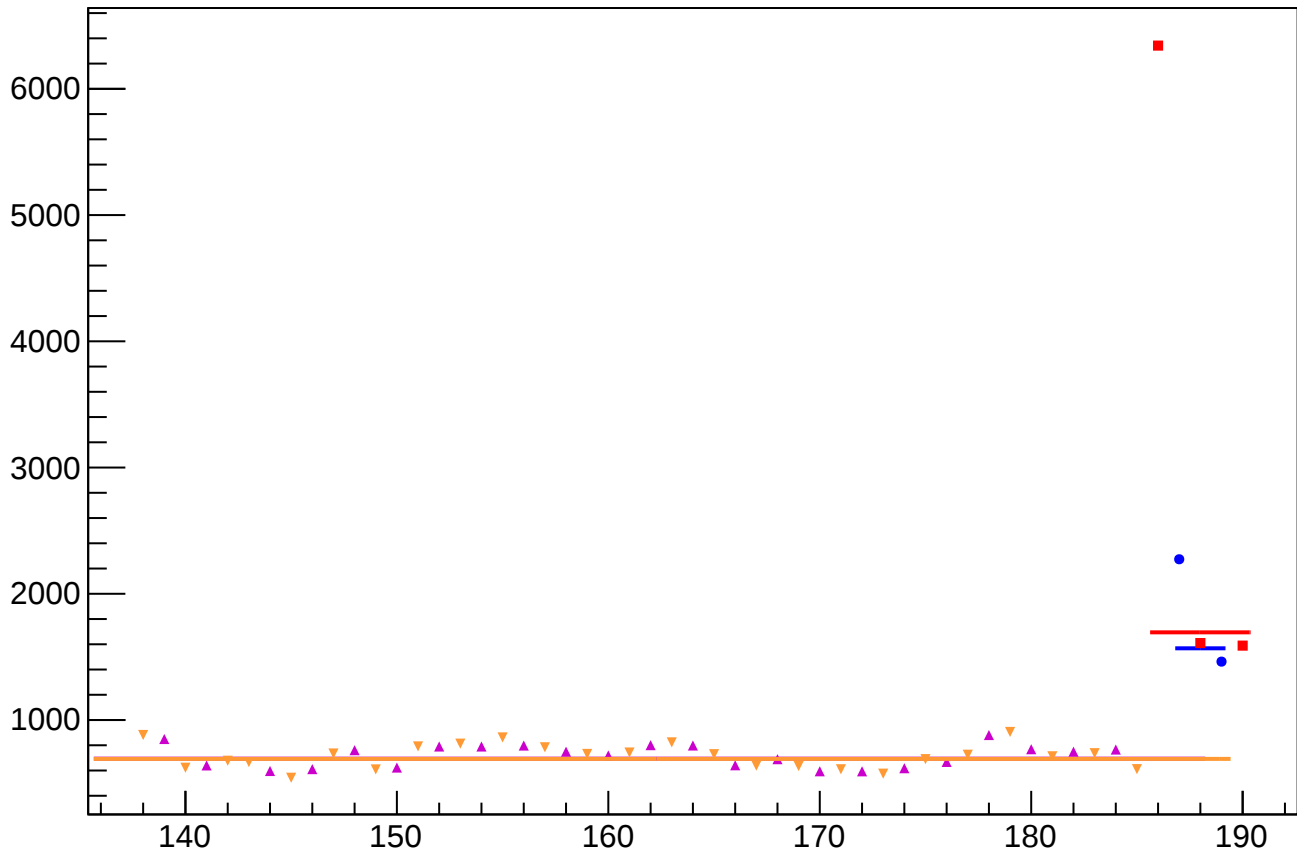
Right: 696.647+/-1194.099 χ^2/NDF : 2.5/4

In: -139.072+/-167.120 χ^2/NDF : 26.6/24

Out: 827.487+/-161.941 χ^2/NDF : 45.6/27

All: 359.418+/-116.297 χ^2/NDF : 89.4/52

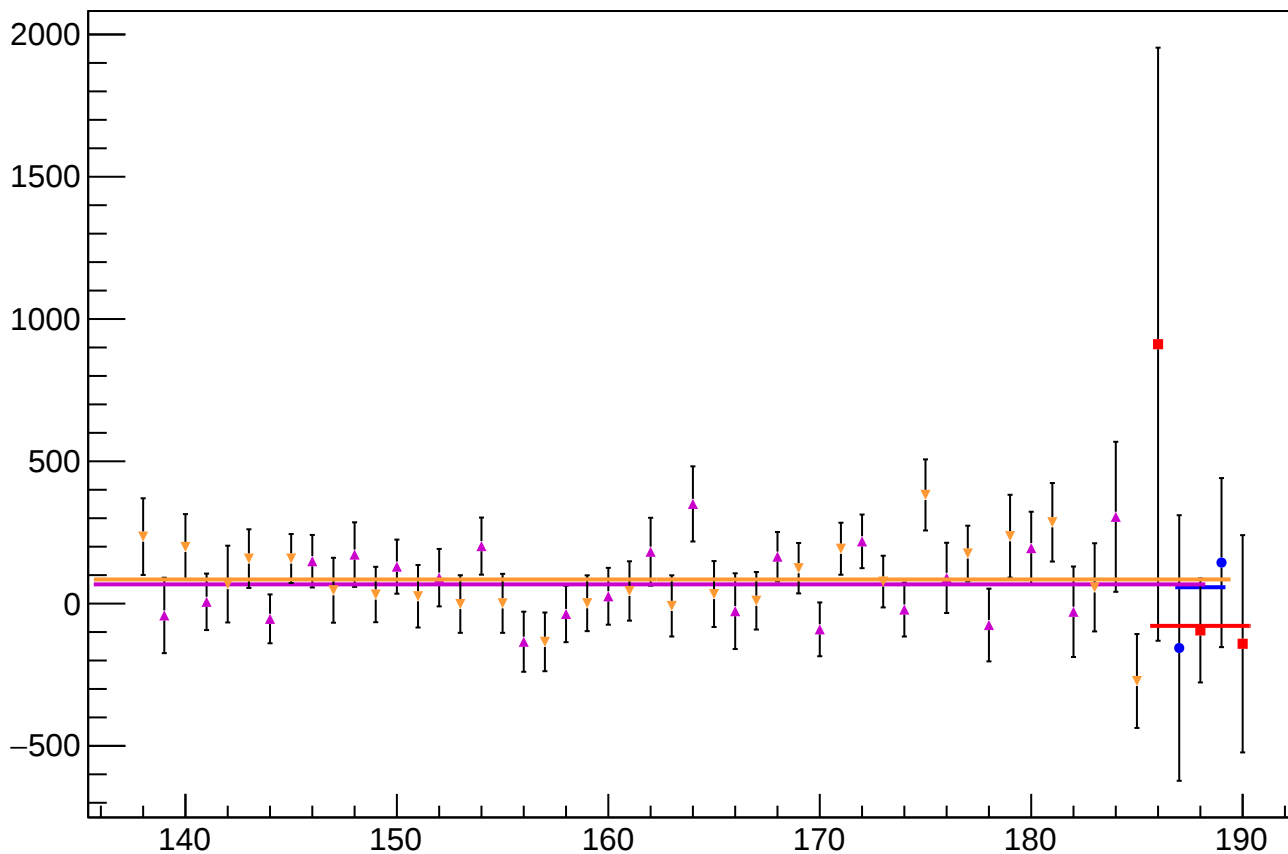
asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1568.075+/-1.496 χ^2/NDF : 33242.5/1
 Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24
 Right Out: 1694.584+/-1.023 χ^2/NDF : 403011.9/2
 Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47
 Right: 1654.285+/-0.844 χ^2/NDF : 441127.4/4
 In: 699.322+/-0.118 χ^2/NDF : 894636.1/24
 Out: 704.661+/-0.115 χ^2/NDF : 2008832.4/27
 All: 702.075+/-0.082 χ^2/NDF : 2904521.4/52

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 57.476 $\pm$ 250.583 χ^2 /NDF: 0.3/1

Left Out: 84.860 $\pm$ 21.643 χ^2 /NDF:28.5/24

Right Out: -78.313 $\pm$ 162.820 χ^2 /NDF: 0.9/2

Left In: 67.552 $\pm$ 22.449 χ^2 /NDF:28.9/22

Left: 76.522 $\pm$ 15.581 χ^2 /NDF: 57.7/47

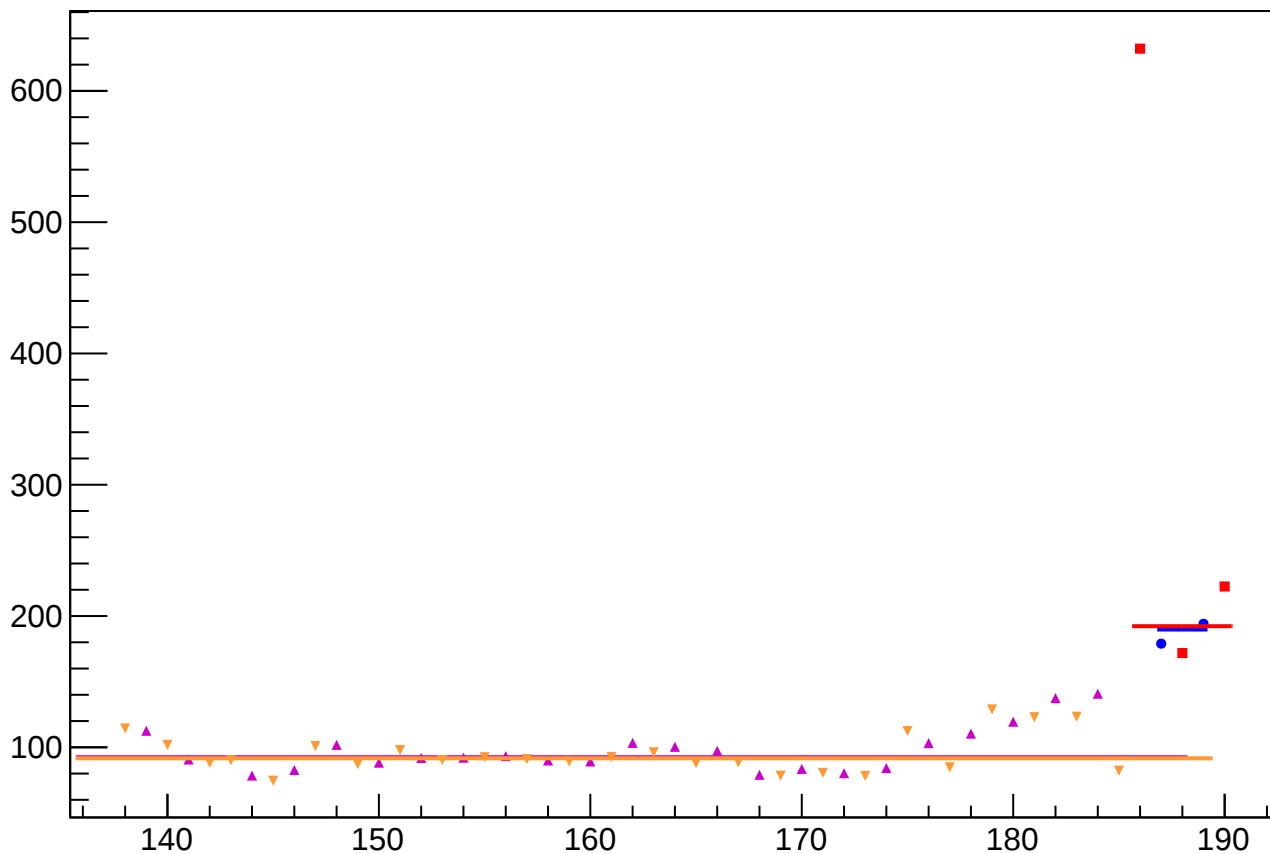
Right: -38.003 $\pm$ 136.530 χ^2 /NDF: 1.4/4

In: 67.472 $\pm$ 22.360 χ^2 /NDF:29.1/24

Out: 82.027 $\pm$ 21.454 χ^2 /NDF:30.4/27

All: 75.050 $\pm$ 15.481 χ^2 /NDF: 59.8/52

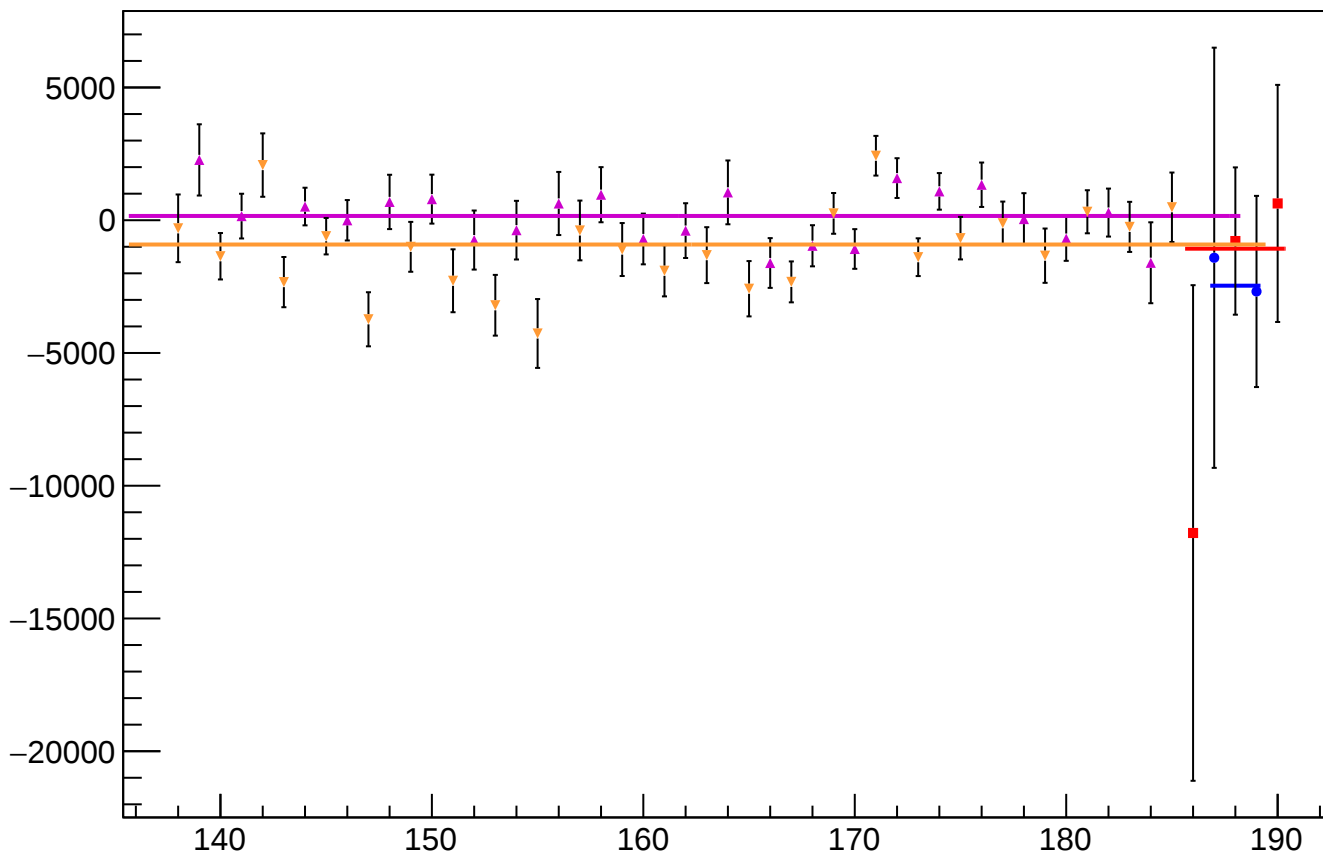
reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 189.729 $\pm$ 0.177 χ^2/NDF : 1496.1/1
 Left Out: 91.633 $\pm$ 0.015 χ^2/NDF : 693122.0/24
 Right Out: 192.262 $\pm$ 0.115 χ^2/NDF : 394052.6/2
 Left In: 92.466 $\pm$ 0.016 χ^2/NDF : 655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2/NDF : 1350250.3/47
 Right: 191.510 $\pm$ 0.097 χ^2/NDF : 395692.4/4
 In: 93.240 $\pm$ 0.016 χ^2/NDF : 956113.5/24
 Out: 93.380 $\pm$ 0.015 χ^2/NDF : 1837856.7/27
 All: 93.313 $\pm$ 0.011 χ^2/NDF : 2794010.7/52

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2465.447 $\pm$ 3277.219 χ^2 /NDF: 0.0/1

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: -1071.717 $\pm$ 2284.717 χ^2 /NDF: 1.5/2

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

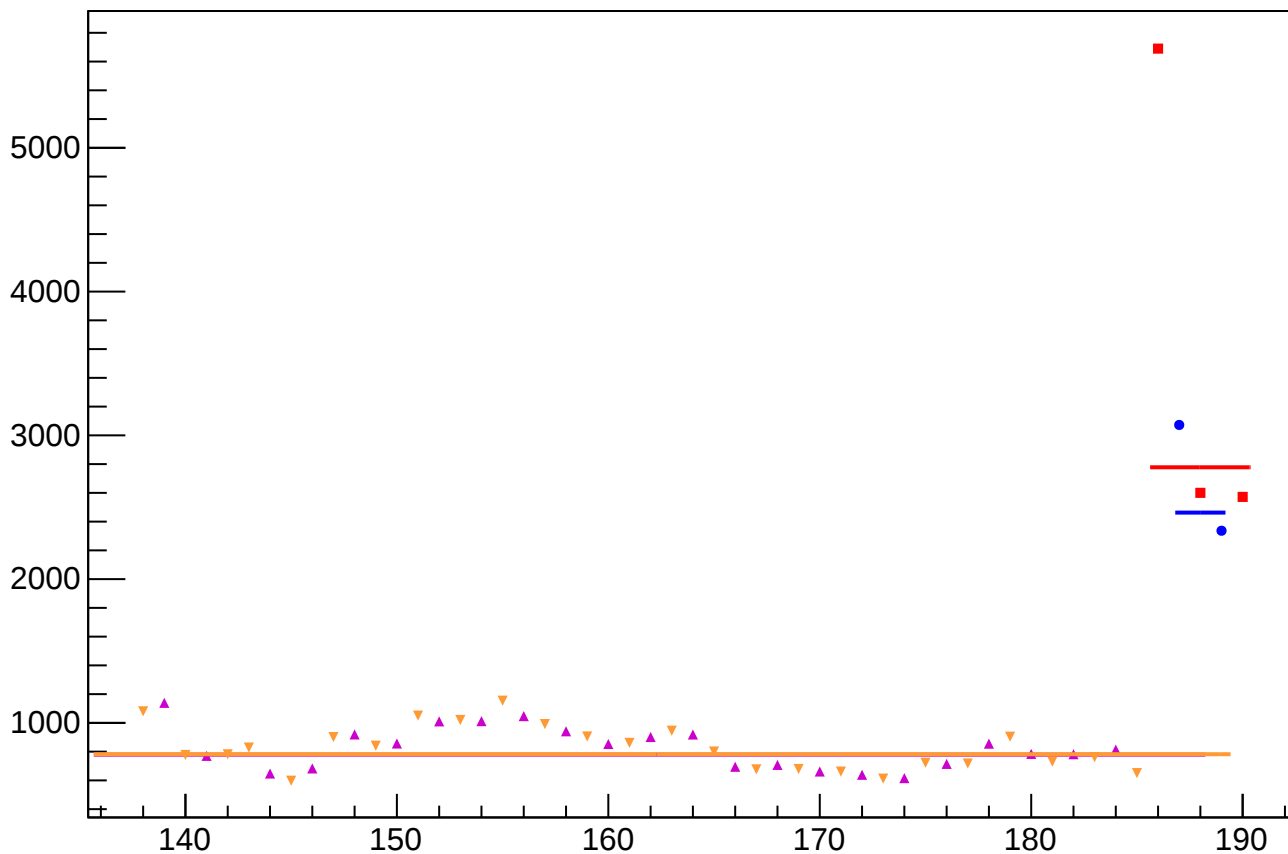
Right: -1527.553 $\pm$ 1874.218 χ^2 /NDF: 1.6/4

In: 152.325 $\pm$ 189.175 χ^2 /NDF:25.7/24

Out: -915.745 $\pm$ 184.734 χ^2 /NDF:65.6/27

All: -394.394 $\pm$ 132.169 χ^2 /NDF: 107.7/52

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2462.759+/-2.317 χ^2/NDF : 14329.0/1

Left Out: 782.042+/-0.131 χ^2/NDF : 1130984.3/24

Right Out: 2777.911+/-1.616 χ^2/NDF : 207136.3/2

Left In: 778.995+/-0.134 χ^2/NDF : 980243.4/22

Left: 780.552+/-0.094 χ^2/NDF : 2111492.1/47

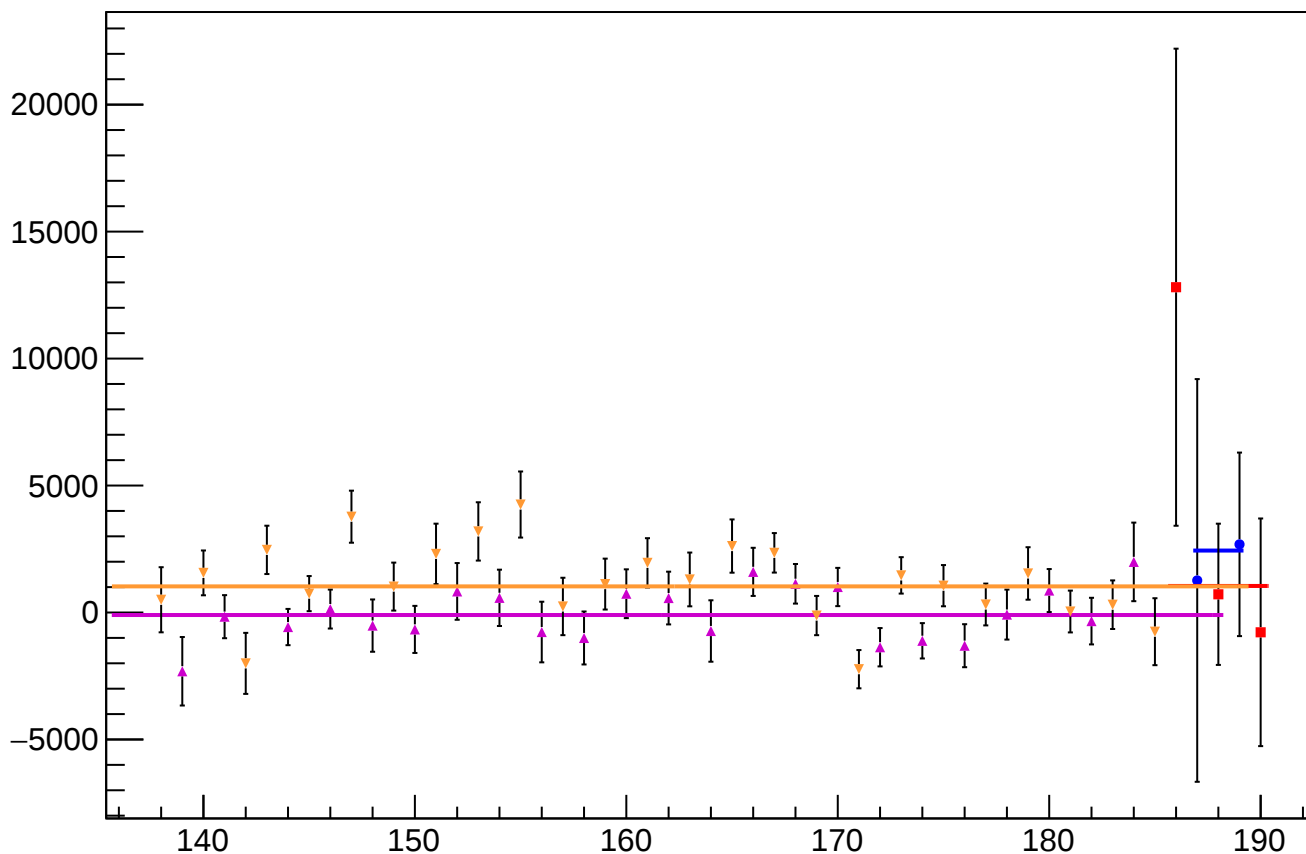
Right: 2674.837+/-1.325 χ^2/NDF : 233911.4/4

In: 784.605+/-0.134 χ^2/NDF : 1520749.9/24

Out: 795.090+/-0.131 χ^2/NDF : 2854405.2/27

All: 789.972+/-0.093 χ^2/NDF : 4378300.2/52

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2439.763+/-3288.332 χ^2/NDF : 0.0/1

Left Out: 1028.864+/-186.810 χ^2/NDF :60.2/24

Right Out: 1045.716+/-2291.672 χ^2/NDF : 1.7/2

Left In: -98.691+/-191.027 χ^2/NDF :25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

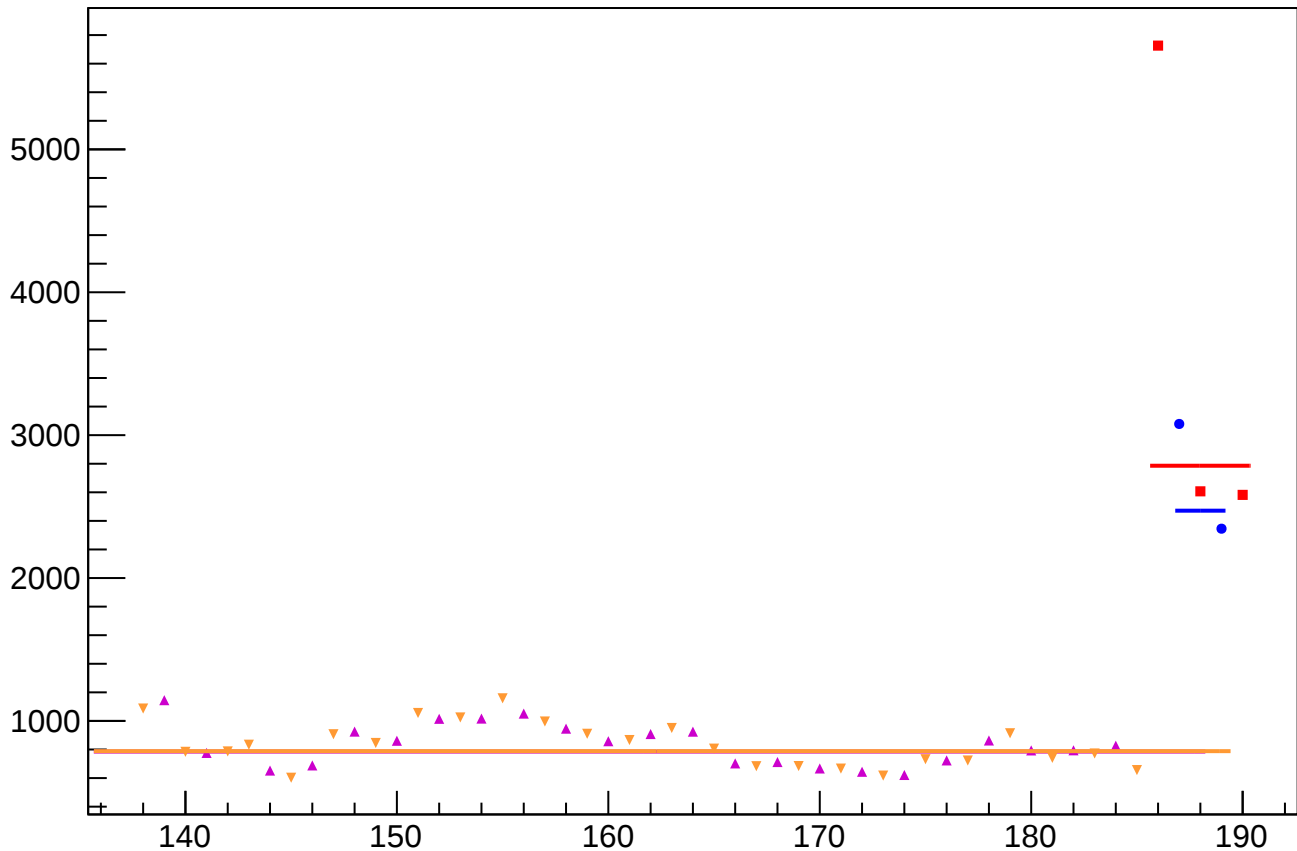
Right: 1501.443+/-1880.136 χ^2/NDF : 1.9/4

In: -90.153+/-190.705 χ^2/NDF :26.0/24

Out: 1028.975+/-186.193 χ^2/NDF :61.9/27

All: 482.809+/-133.225 χ^2/NDF : 105.5/52

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2471.451+/-2.325 χ^2/NDF : 14155.6/1

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2785.995+/-1.620 χ^2/NDF : 208378.9/2

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

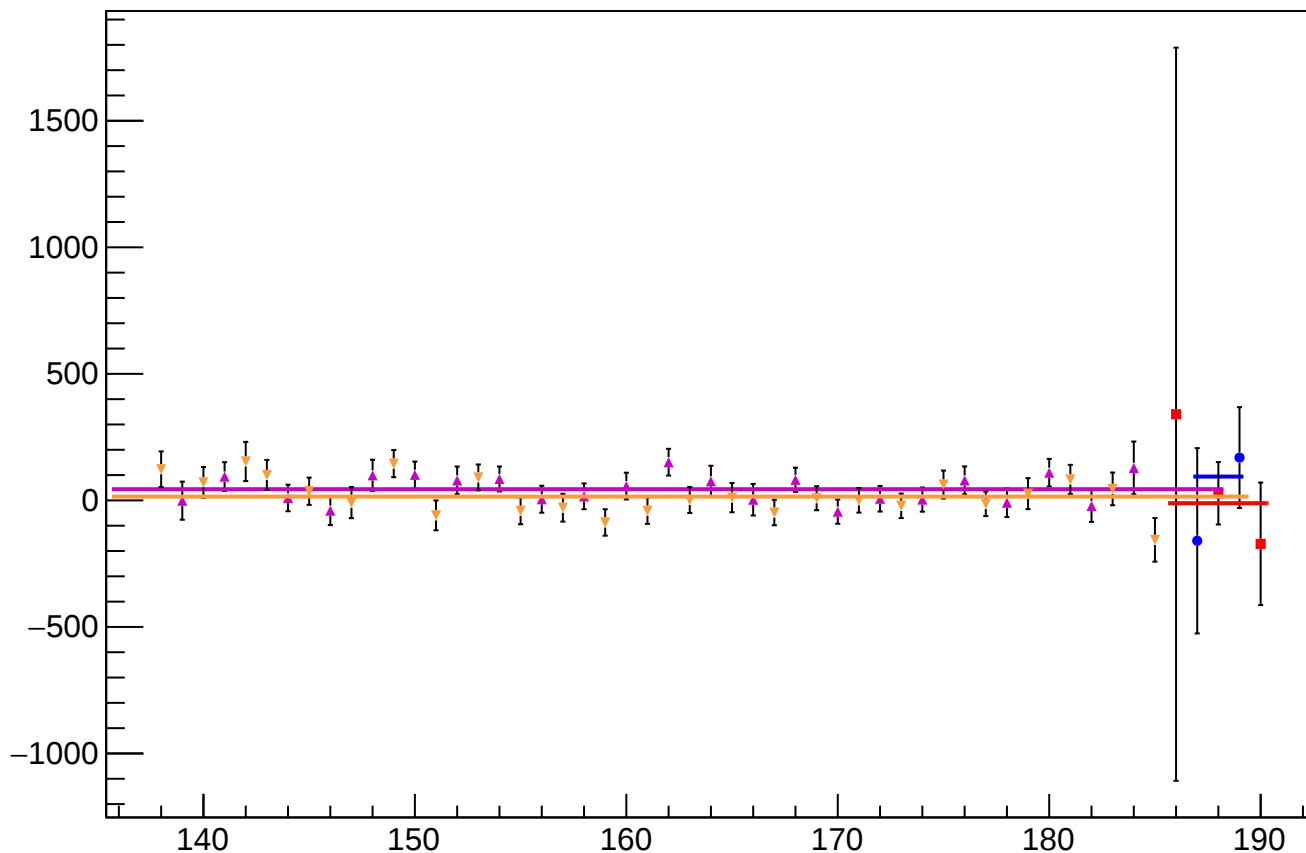
Right: 2683.167+/-1.329 χ^2/NDF : 234851.7/4

In: 791.161+/-0.135 χ^2/NDF : 1503469.0/24

Out: 801.628+/-0.132 χ^2/NDF : 2831662.6/27

All: 796.520+/-0.094 χ^2/NDF : 4338216.2/52

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 94.130+/-174.959 χ^2/NDF : 0.6/1

Left Out: 15.099+/-11.154 χ^2/NDF :34.2/24

Right Out: -11.022+/-109.554 χ^2/NDF : 0.6/2

Left In: 44.297+/-11.530 χ^2/NDF :22.3/22

Left: 29.215+/-8.017 χ^2/NDF : 59.8/47

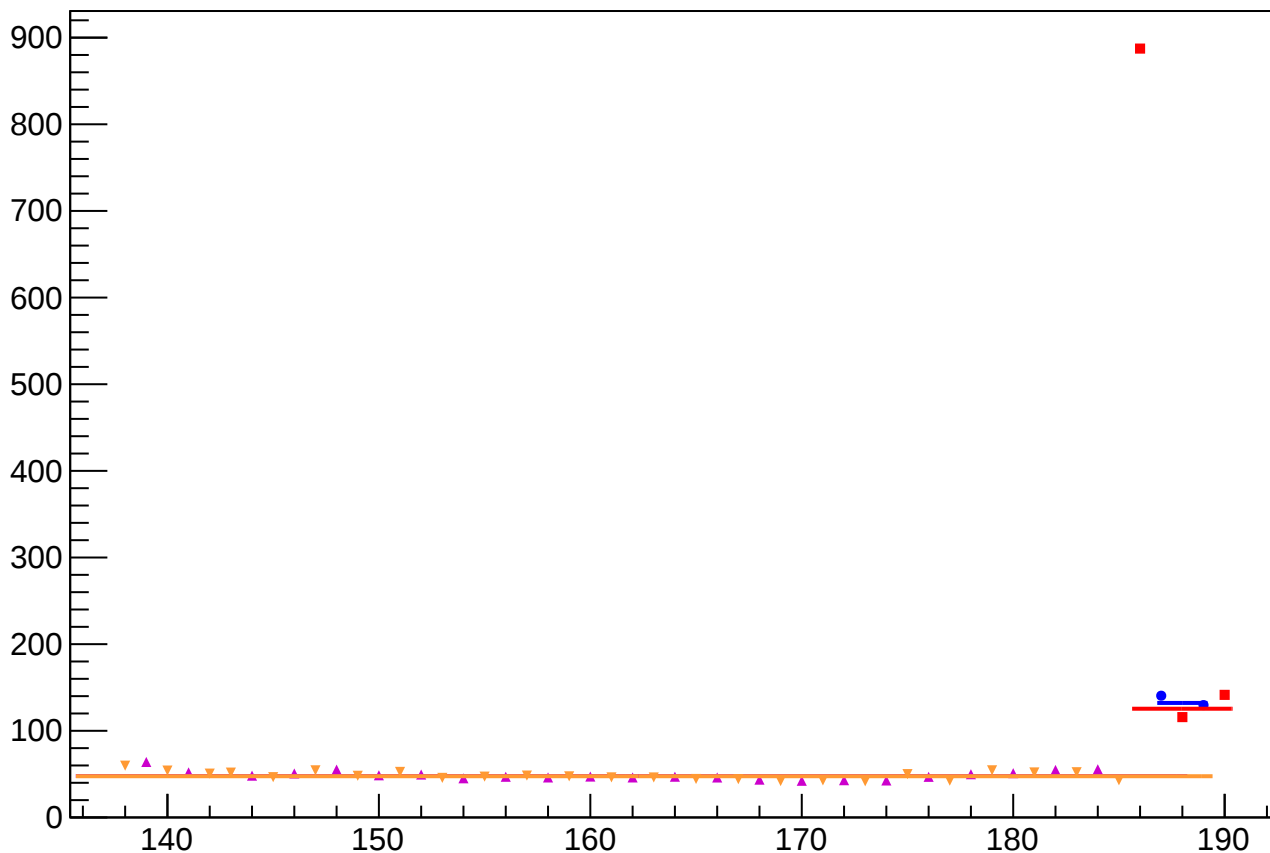
Right: 18.595+/-92.853 χ^2/NDF : 1.5/4

In: 44.513+/-11.505 χ^2/NDF :23.0/24

Out: 14.831+/-11.097 χ^2/NDF :34.9/27

All: 29.137+/-7.987 χ^2/NDF : 61.3/52

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 132.164 $\pm$ 0.124 χ^2/NDF : 1348.3/1

Left Out: 47.586 $\pm$ 0.008 χ^2/NDF :312874.8/24

Right Out: 125.487 $\pm$ 0.077 χ^2/NDF : 574385.6/2

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

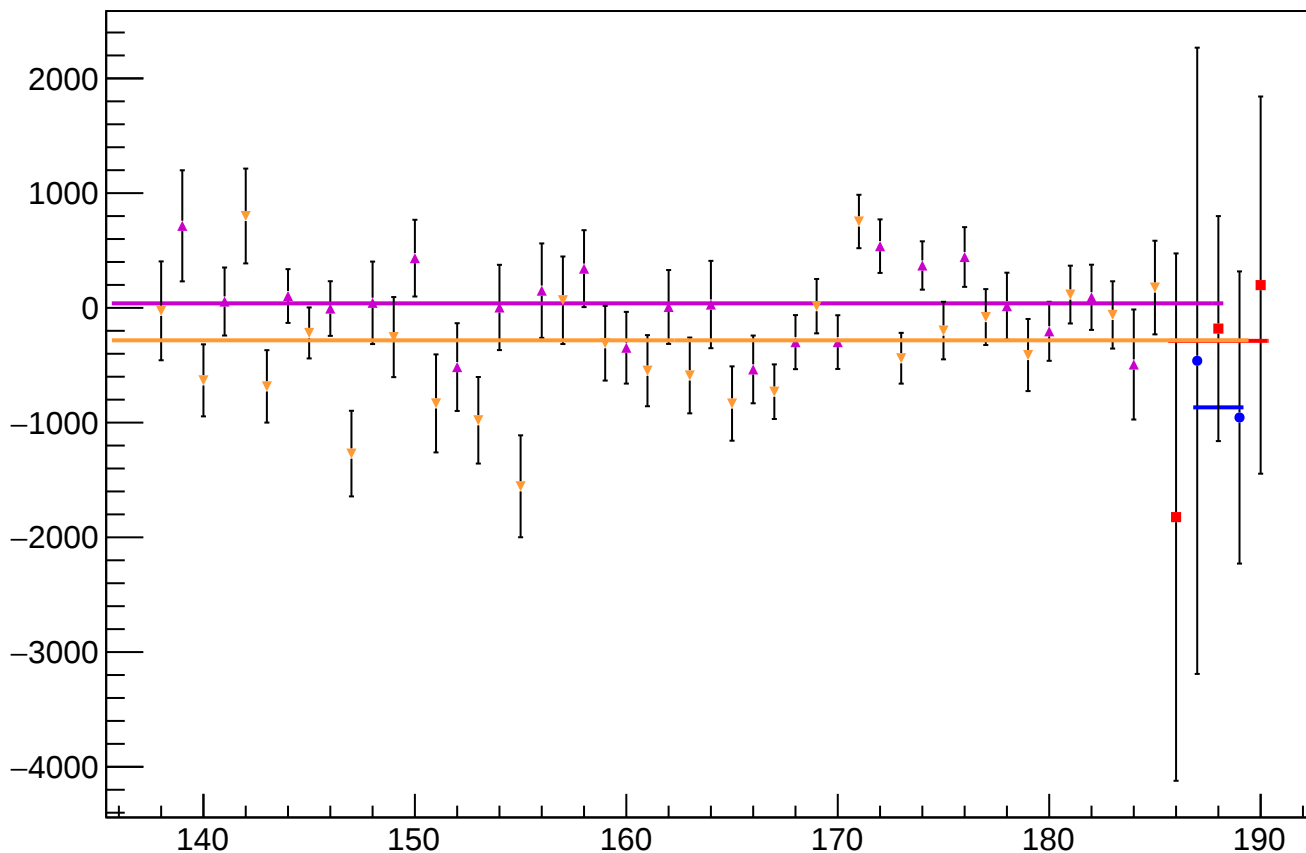
Right: 127.367 $\pm$ 0.066 χ^2/NDF : 577826.6/4

In: 48.211 $\pm$ 0.008 χ^2/NDF :745642.6/24

Out: 48.385 $\pm$ 0.008 χ^2/NDF :1888129.7/27

All: 48.301 $\pm$ 0.006 χ^2/NDF : 2634011.5/52

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -867.113+/-1153.869 χ^2/NDF : 0.0/1

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: -287.401+/-790.680 χ^2/NDF : 0.5/2

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

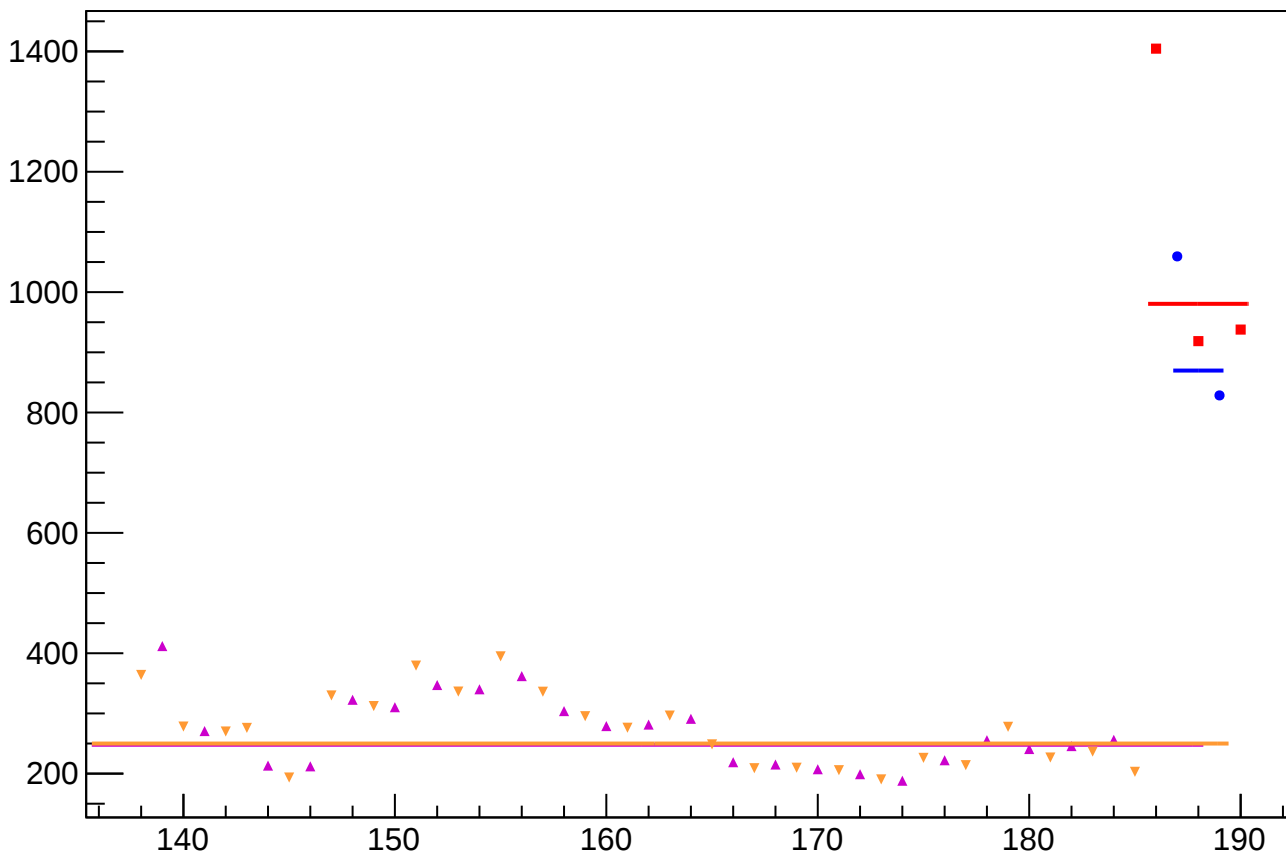
Right: -472.632+/-652.240 χ^2/NDF : 0.7/4

In: 36.925+/-60.675 χ^2/NDF : 28.2/24

Out: -282.824+/-59.520 χ^2/NDF : 67.1/27

All: -126.020+/-42.490 χ^2/NDF : 109.4/52

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 869.689 $\pm$ 0.816 χ^2 /NDF: 11766.9/1

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 980.555 $\pm$ 0.559 χ^2 /NDF: 77415.9/2

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

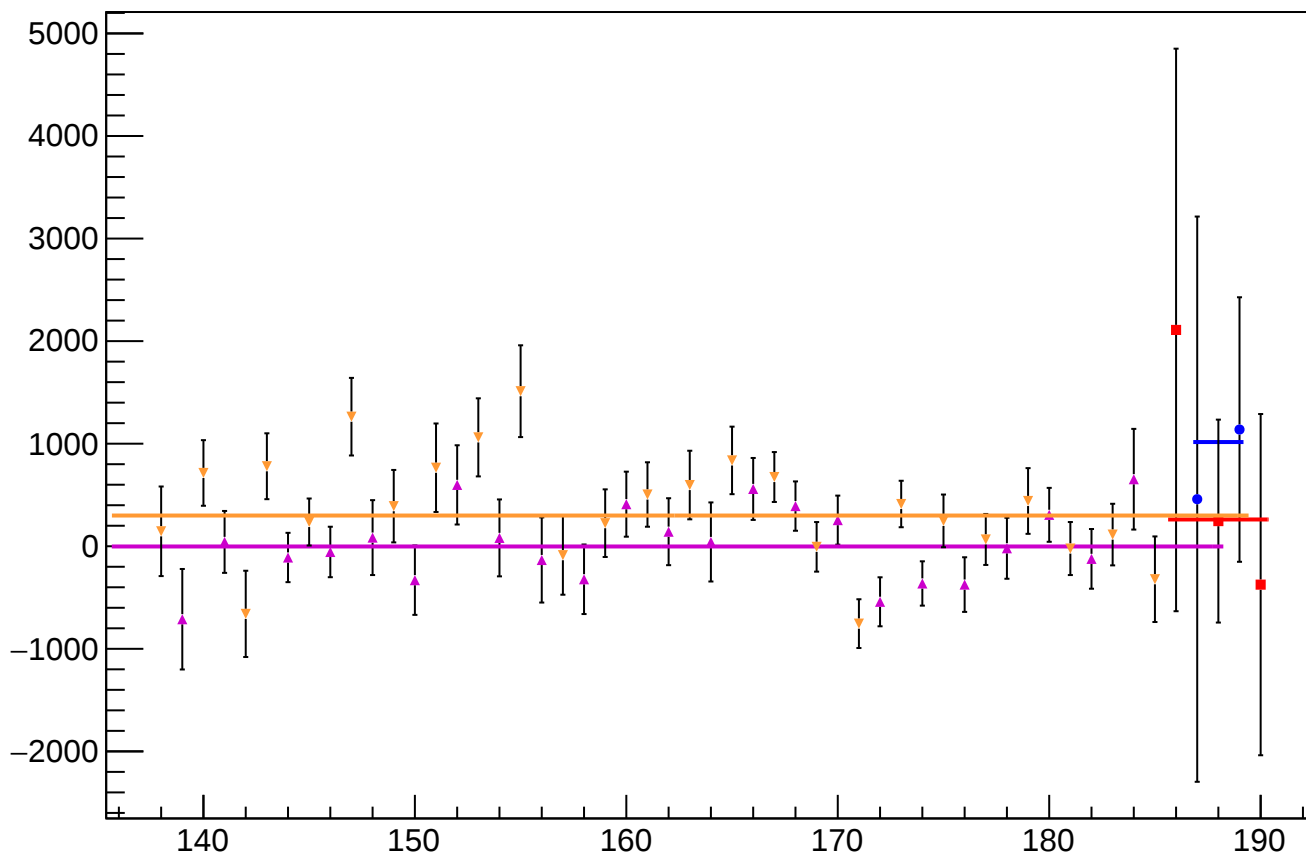
Right: 945.131 $\pm$ 0.461 χ^2 /NDF: 101746.8/4

In: 249.636 $\pm$ 0.043 χ^2 /NDF:2001745.4/24

Out: 254.097 $\pm$ 0.042 χ^2 /NDF:3389548.7/27

All: 251.909 $\pm$ 0.030 χ^2 /NDF: 5396802.1/52

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1016.027+/-1167.997 χ^2/NDF : 0.0/1

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: 261.043+/-812.155 χ^2/NDF : 0.6/2

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

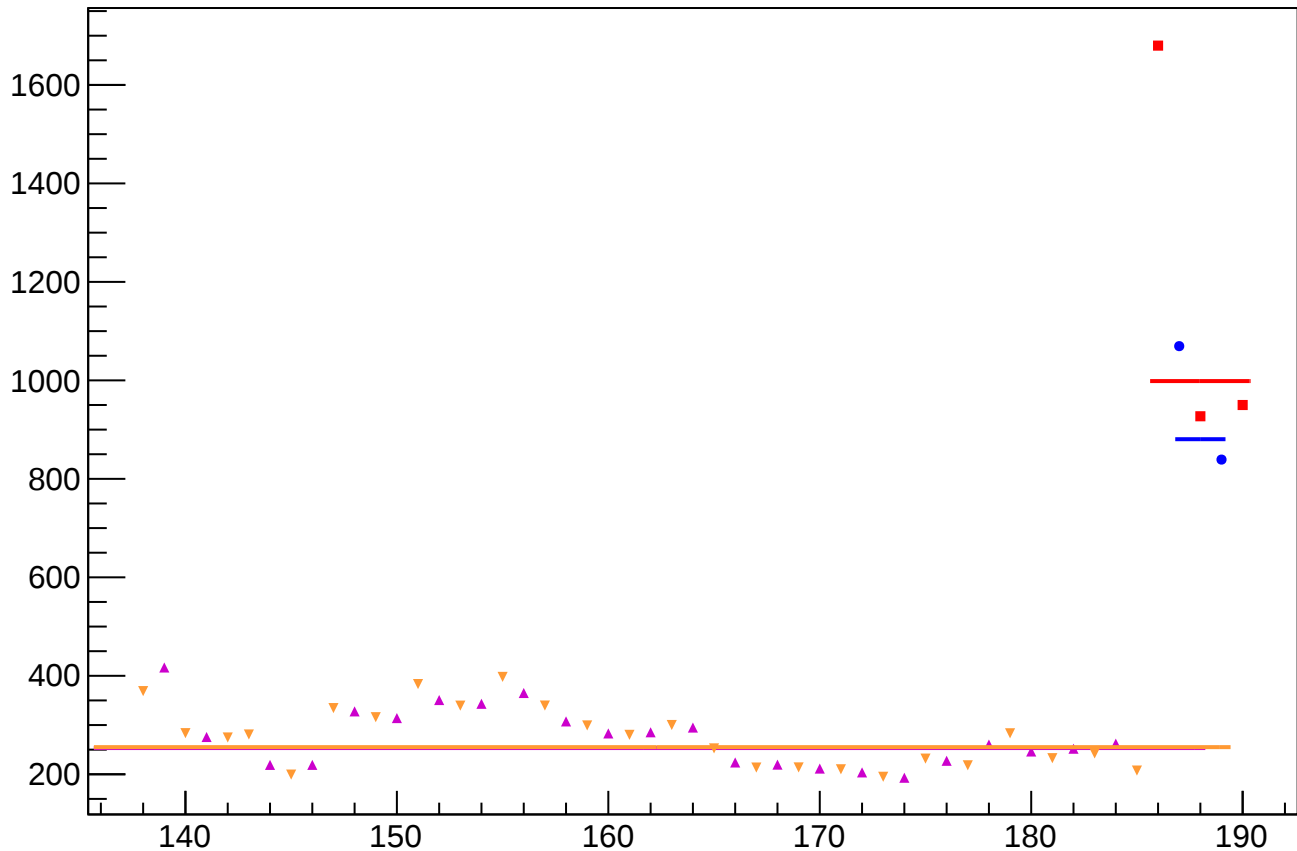
Right: 507.105+/-666.800 χ^2/NDF : 0.9/4

In: 0.676+/-61.918 χ^2/NDF : 30.0/24

Out: 299.347+/-60.689 χ^2/NDF : 63.1/27

All: 153.003+/-43.342 χ^2/NDF : 104.9/52

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 880.517+/-0.826 χ^2/NDF : 11468.6/1

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 998.569+/-0.574 χ^2/NDF : 135569.5/2

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

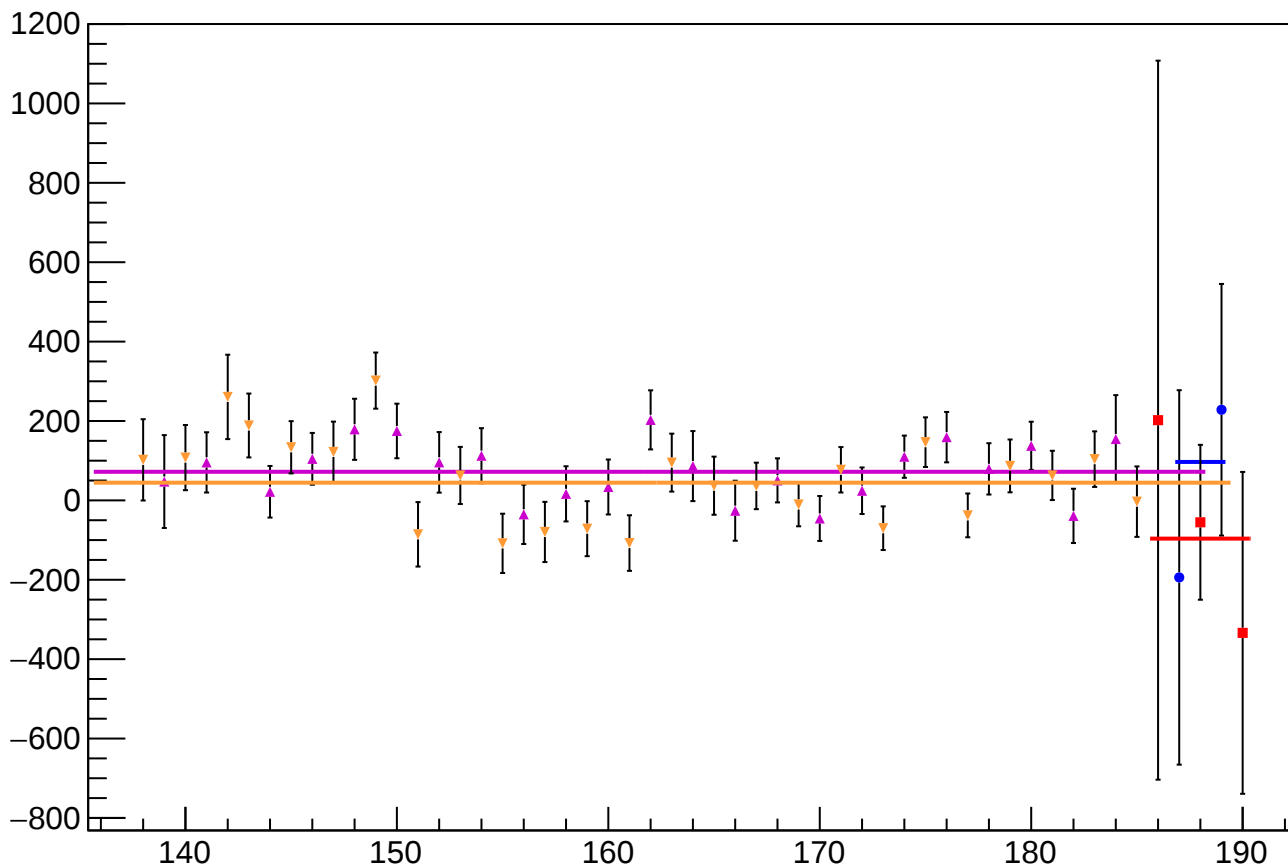
Right: 960.094+/-0.471 χ^2/NDF : 160810.4/4

In: 255.050+/-0.044 χ^2/NDF : 1928275.8/24

Out: 259.287+/-0.043 χ^2/NDF : 3344105.1/27

All: 257.211+/-0.031 χ^2/NDF : 5277156.5/52

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 96.858+/-263.099 χ^2/NDF : 0.6/1

Left Out: 44.602+/-13.824 χ^2/NDF : 53.9/24

Right Out: -96.310+/-172.576 χ^2/NDF : 0.5/2

Left In: 72.037+/-14.296 χ^2/NDF : 25.3/22

Left: 57.859+/-9.938 χ^2/NDF : 81.1/47

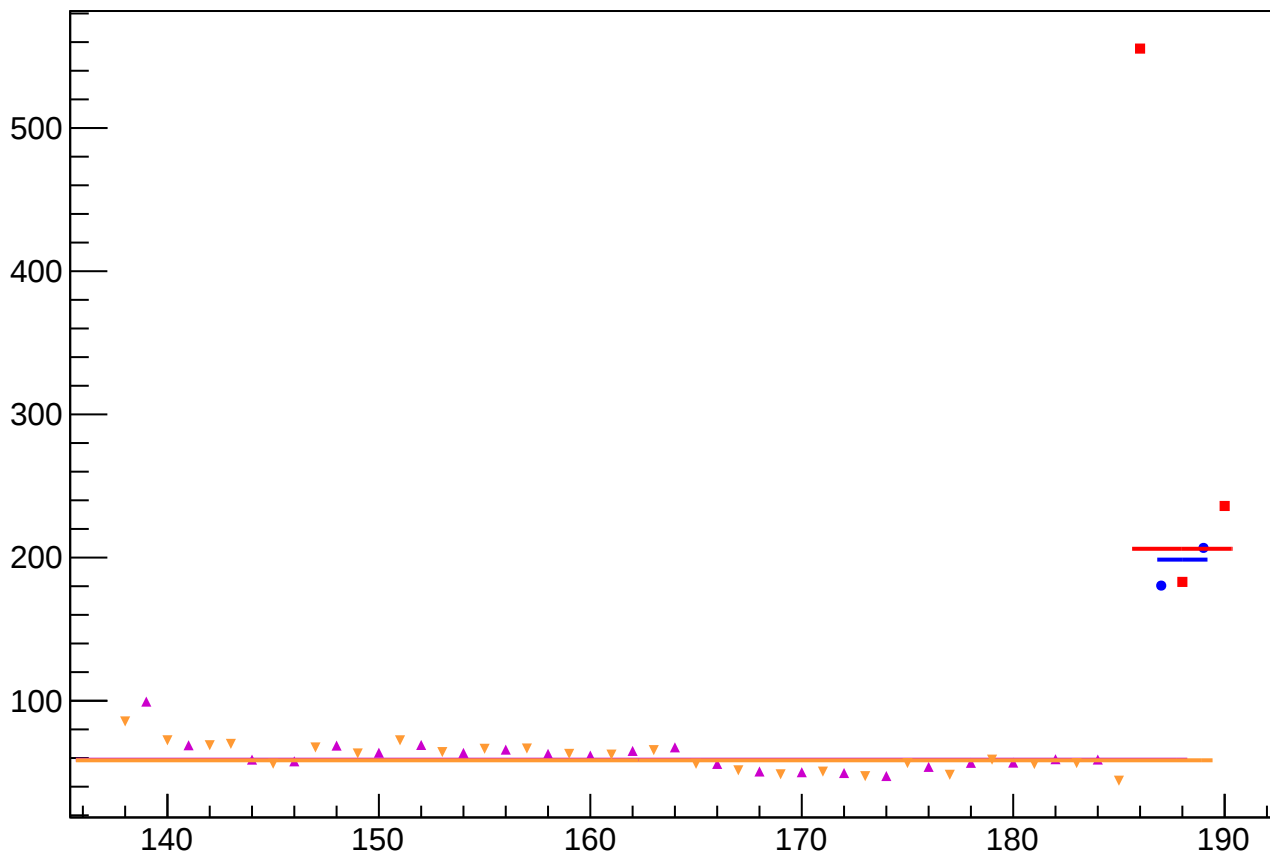
Right: -38.201+/-144.302 χ^2/NDF : 1.4/4

In: 72.110+/-14.275 χ^2/NDF : 25.9/24

Out: 43.703+/-13.780 χ^2/NDF : 55.1/27

All: 57.405+/-9.914 χ^2/NDF : 83.0/52

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 198.575 $\pm$ 0.186 χ^2/NDF : 4294.4/1

Left Out: 58.423 $\pm$ 0.010 χ^2/NDF : 790091.3/24

Right Out: 206.145 $\pm$ 0.122 χ^2/NDF : 336554.5/2

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

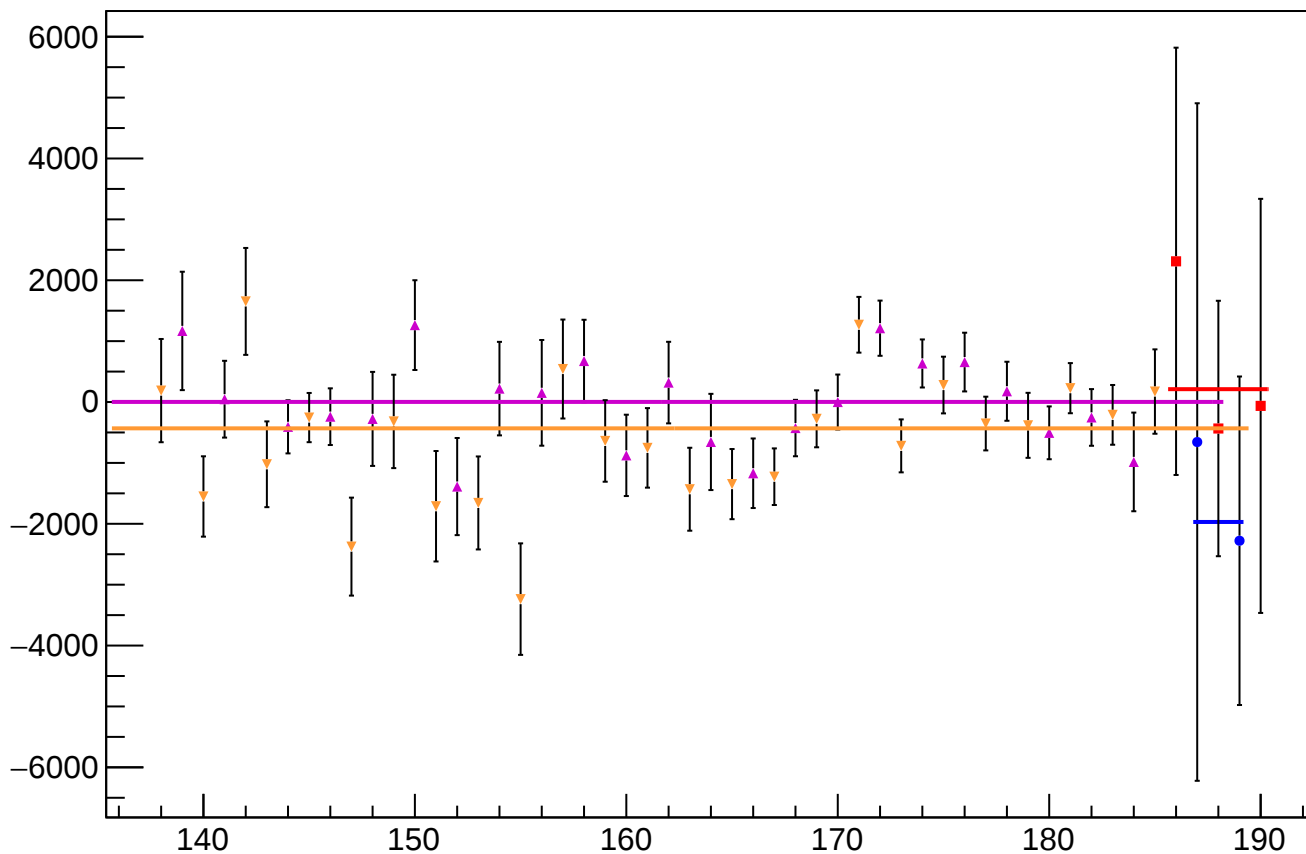
Right: 203.868 $\pm$ 0.102 χ^2/NDF : 342006.3/4

In: 59.251 $\pm$ 0.010 χ^2/NDF : 1246723.0/24

Out: 59.365 $\pm$ 0.010 χ^2/NDF : 2582718.0/27

All: 59.310 $\pm$ 0.007 χ^2/NDF : 3829506.5/52

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1969.950 $\pm$ 2427.505 χ^2 /NDF: 0.1/1

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 211.099 $\pm$ 1591.262 χ^2 /NDF: 0.5/2

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

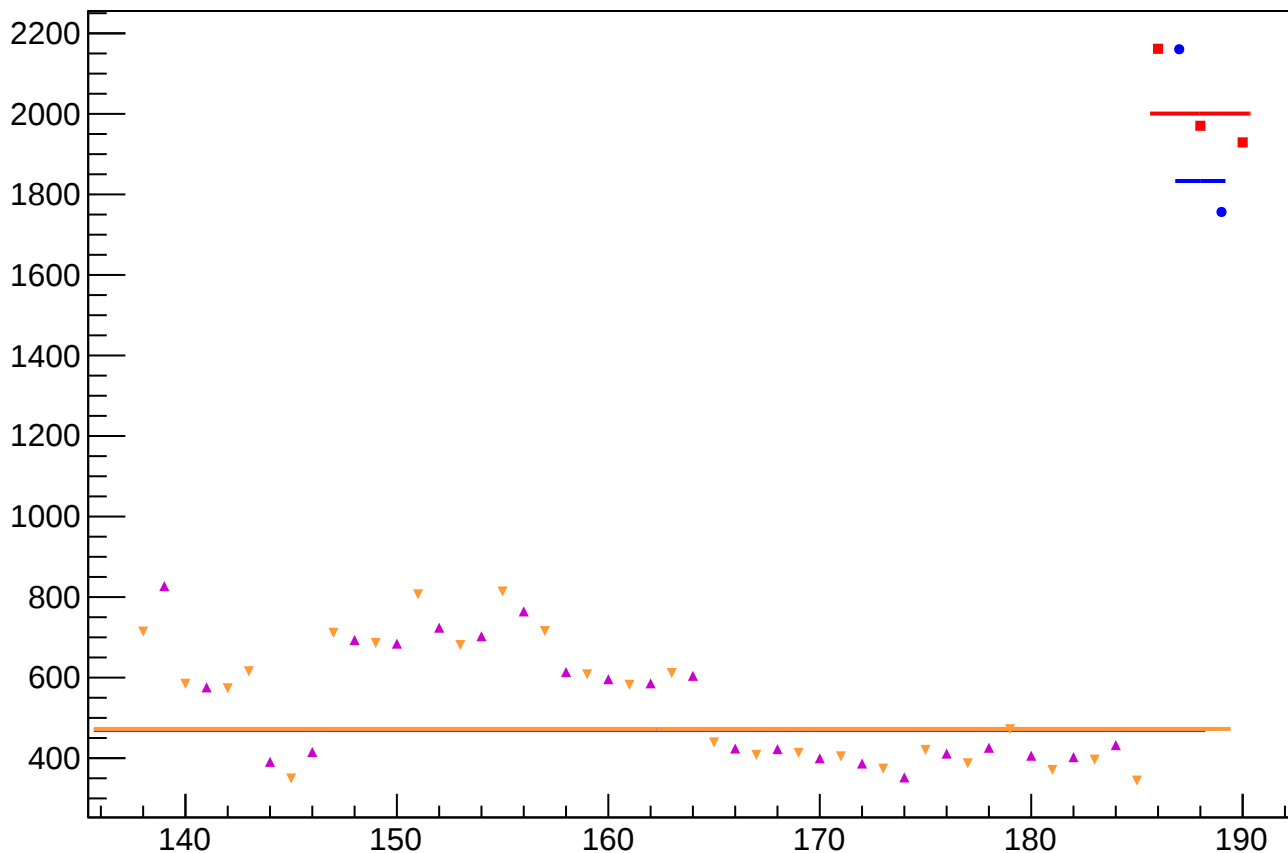
Right: -444.418 $\pm$ 1330.821 χ^2 /NDF: 1.1/4

In: -2.703 $\pm$ 116.325 χ^2 /NDF:33.0/24

Out: -429.021 $\pm$ 114.113 χ^2 /NDF:60.0/27

All: -219.953 $\pm$ 81.461 χ^2 /NDF: 99.9/52

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1833.326+/-1.717 χ^2/NDF : 8540.4/1

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 2000.765+/-1.125 χ^2/NDF : 5509.4/2

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

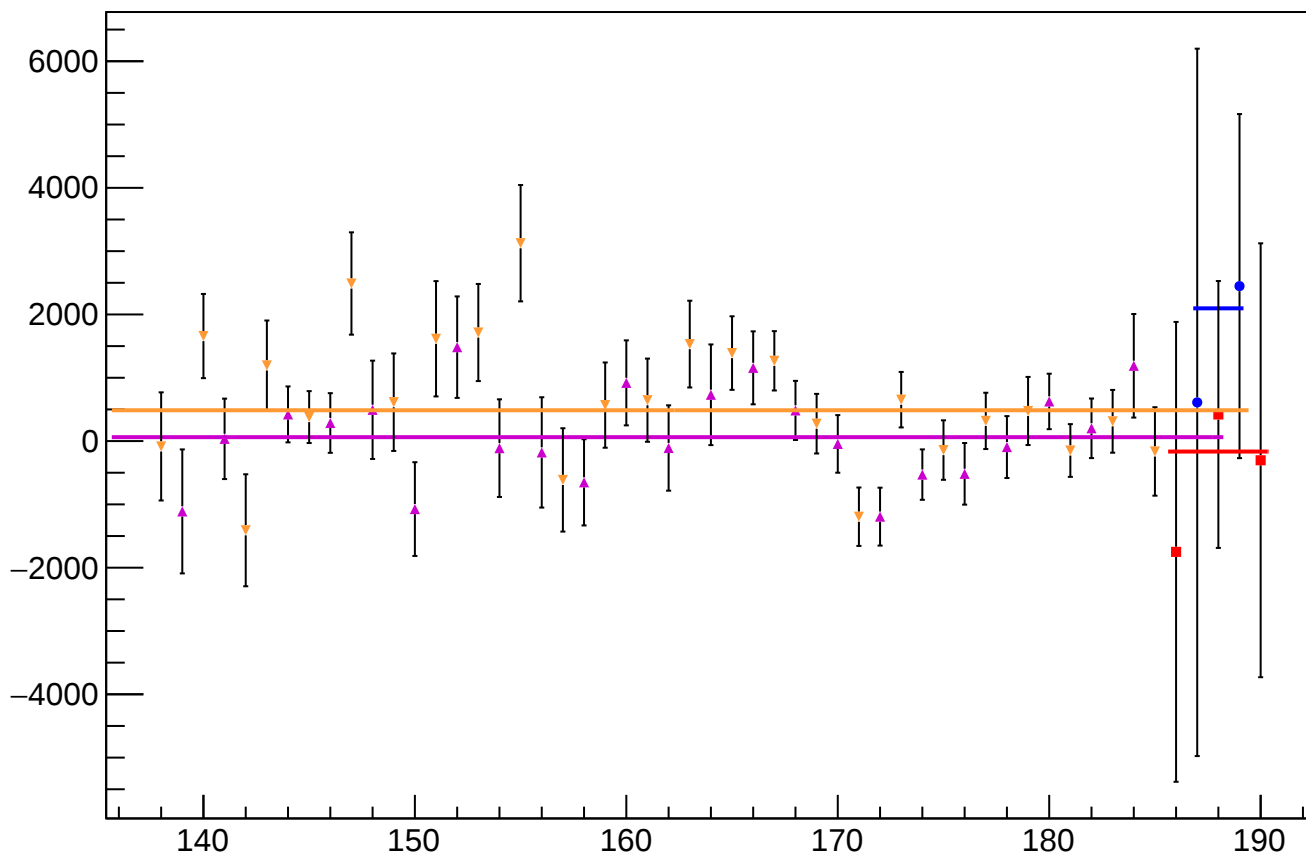
Right: 1950.441+/-0.941 χ^2/NDF : 20705.2/4

In: 472.892+/-0.082 χ^2/NDF : 2755023.6/24

Out: 480.428+/-0.081 χ^2/NDF : 4348803.3/27

All: 476.732+/-0.058 χ^2/NDF : 7108103.8/52

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2096.604 $\pm$ 2443.685 χ^2 /NDF: 0.1/1

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -165.603 $\pm$ 1609.590 χ^2 /NDF: 0.3/2

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

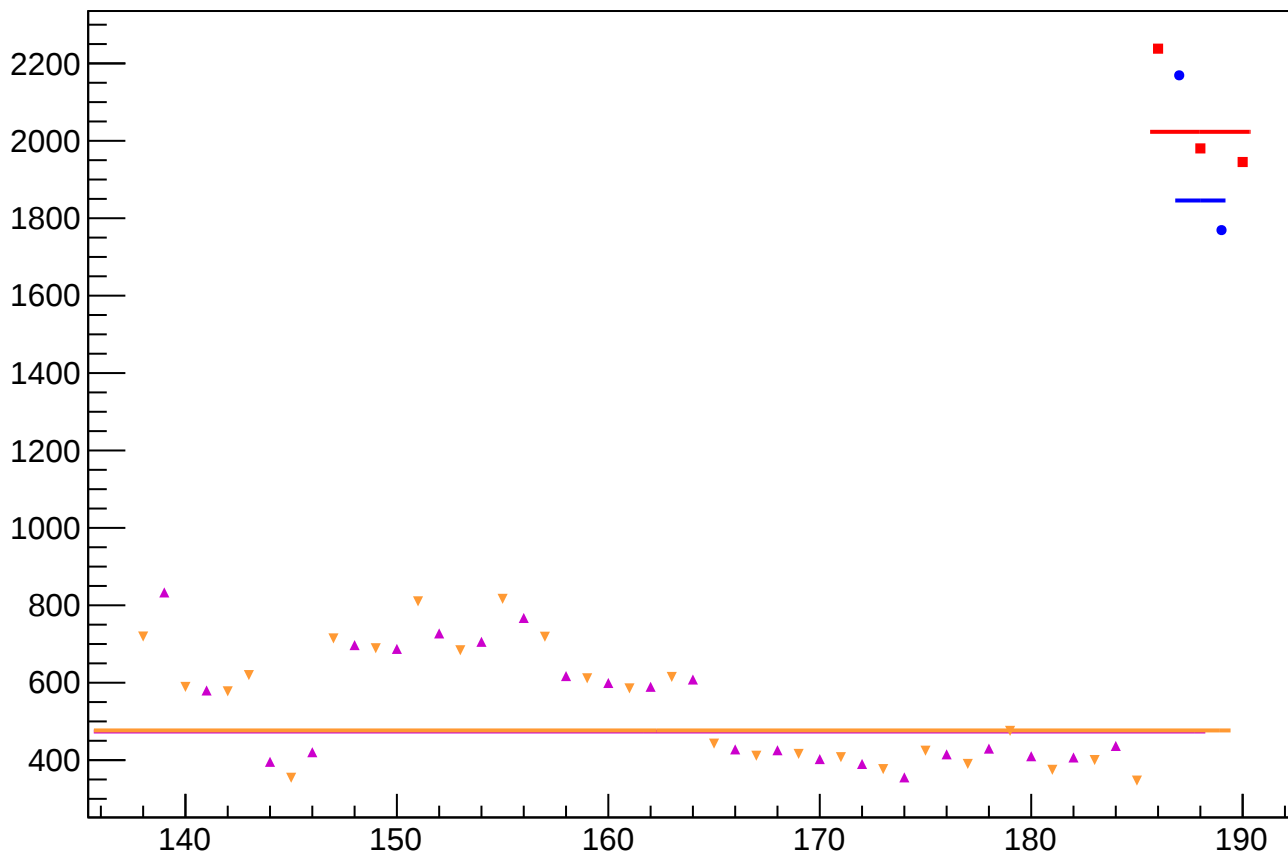
Right: 518.889 $\pm$ 1344.198 χ^2 /NDF: 1.0/4

In: 66.464 $\pm$ 117.313 χ^2 /NDF:31.9/24

Out: 483.313 $\pm$ 115.051 χ^2 /NDF:56.5/27

All: 278.947 $\pm$ 82.142 χ^2 /NDF: 94.8/52

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1845.834+/-1.728 χ^2/NDF : 8285.0/1

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 2023.262+/-1.138 χ^2/NDF : 8859.7/2

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

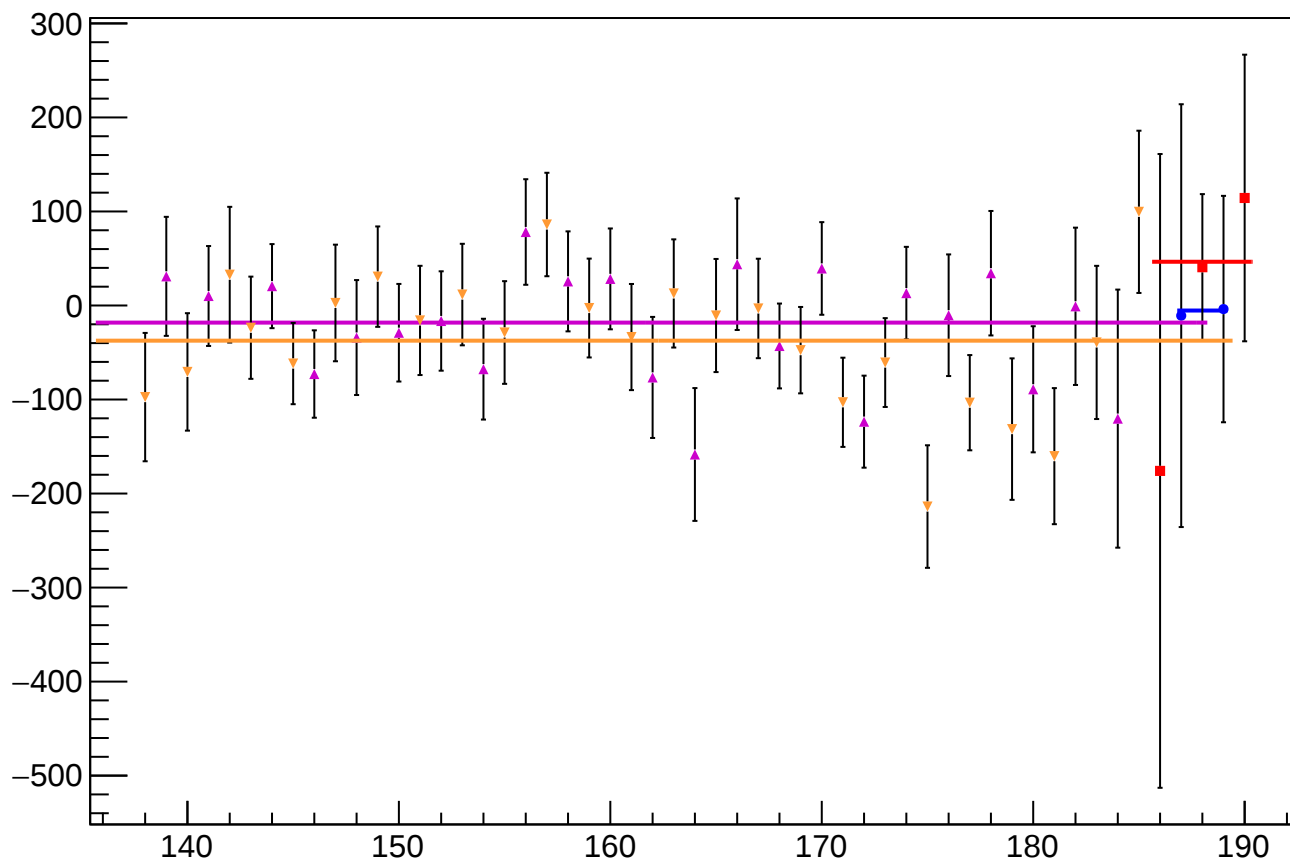
Right: 1969.576+/-0.950 χ^2/NDF : 24498.0/4

In: 477.145+/-0.083 χ^2/NDF : 2724254.7/24

Out: 484.592+/-0.081 χ^2/NDF : 4318623.7/27

All: 480.941+/-0.058 χ^2/NDF : 7046986.2/52

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -5.364+/-106.140 χ^2/NDF : 0.0/1

Left Out: -37.413+/-11.390 χ^2/NDF :30.5/24

Right Out: 46.509+/-67.844 χ^2/NDF : 0.6/2

Left In: -18.210+/-11.788 χ^2/NDF :23.0/22

Left: -28.141+/-8.191 χ^2/NDF : 54.8/47

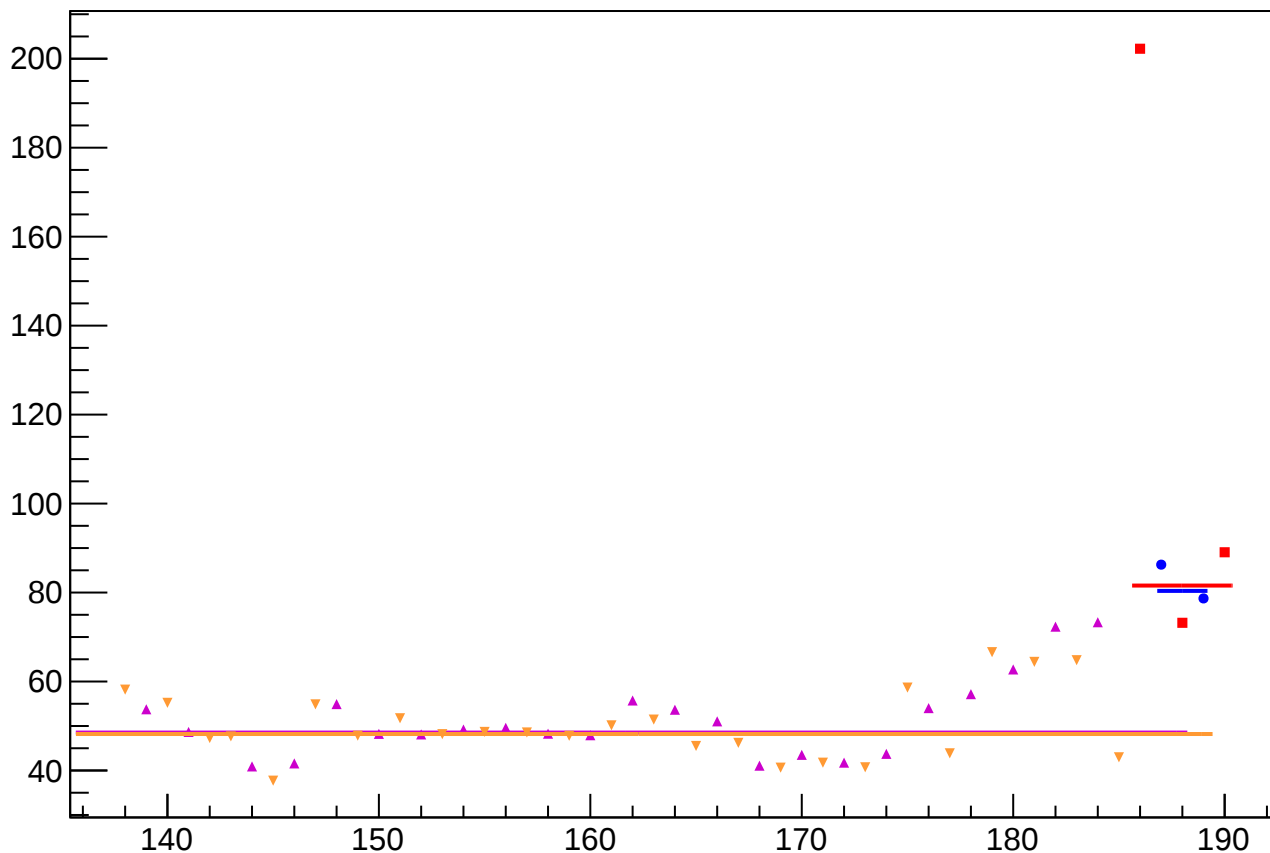
Right: 31.463+/-57.164 χ^2/NDF : 0.8/4

In: -18.054+/-11.716 χ^2/NDF :23.0/24

Out: -35.112+/-11.233 χ^2/NDF :32.6/27

All: -26.942+/-8.108 χ^2/NDF : 56.7/52

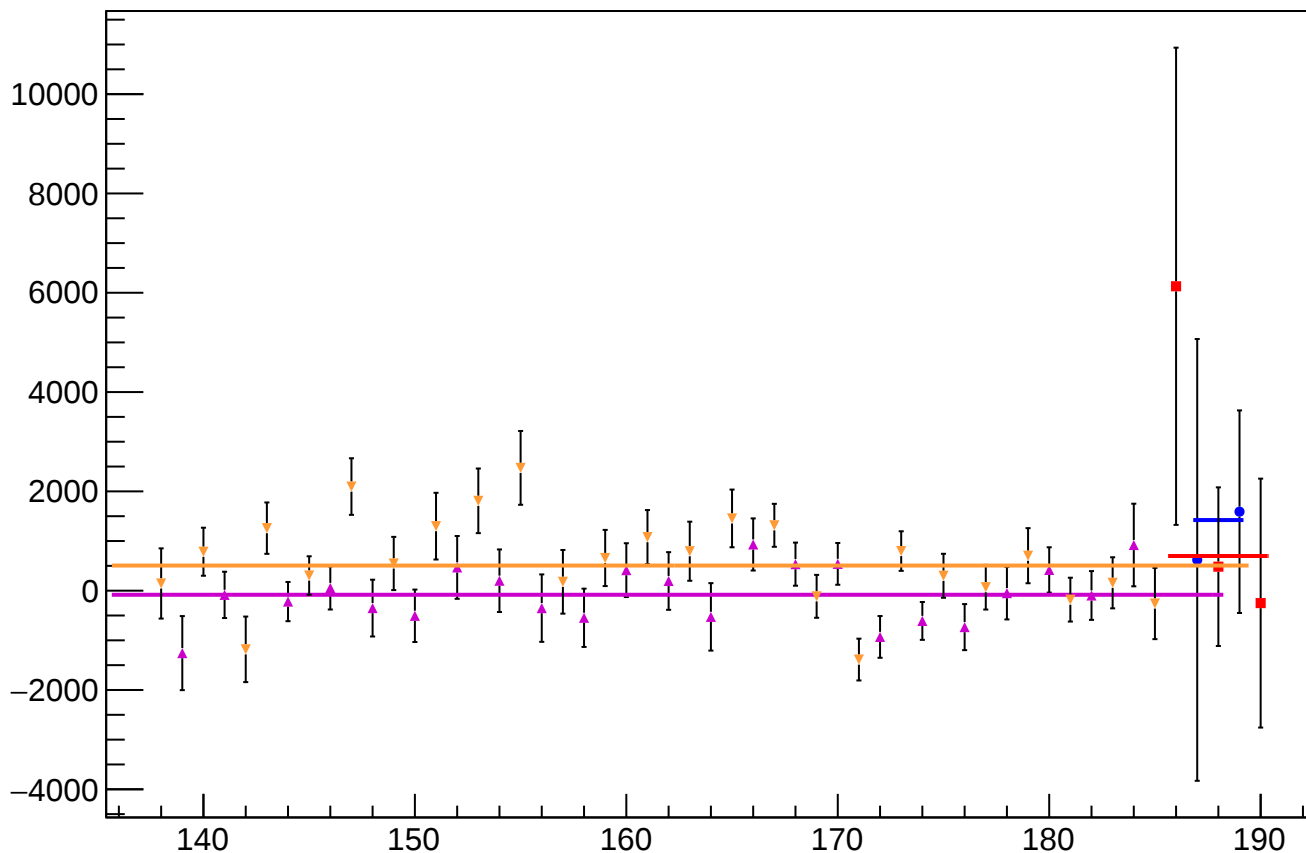
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 80.371+/-0.075 χ^2/NDF : 1771.6/1
 Left Out: 48.200+/-0.008 χ^2/NDF : 750196.2/24
 Right Out: 81.571+/-0.048 χ^2/NDF : 284405.8/2
 Left In: 48.527+/-0.008 χ^2/NDF : 675340.8/22

Left: 48.358+/-0.006 χ^2/NDF : 1426333.4/47
 Right: 81.223+/-0.040 χ^2/NDF : 286358.9/4
 In: 48.915+/-0.008 χ^2/NDF : 854945.5/24
 Out: 49.114+/-0.008 χ^2/NDF : 1505236.4/27
 All: 49.019+/-0.006 χ^2/NDF : 2360484.6/52

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1422.107 $\pm$ 1854.221 χ^2 /NDF: 0.0/1

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: 698.491 $\pm$ 1297.100 χ^2 /NDF: 1.4/2

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

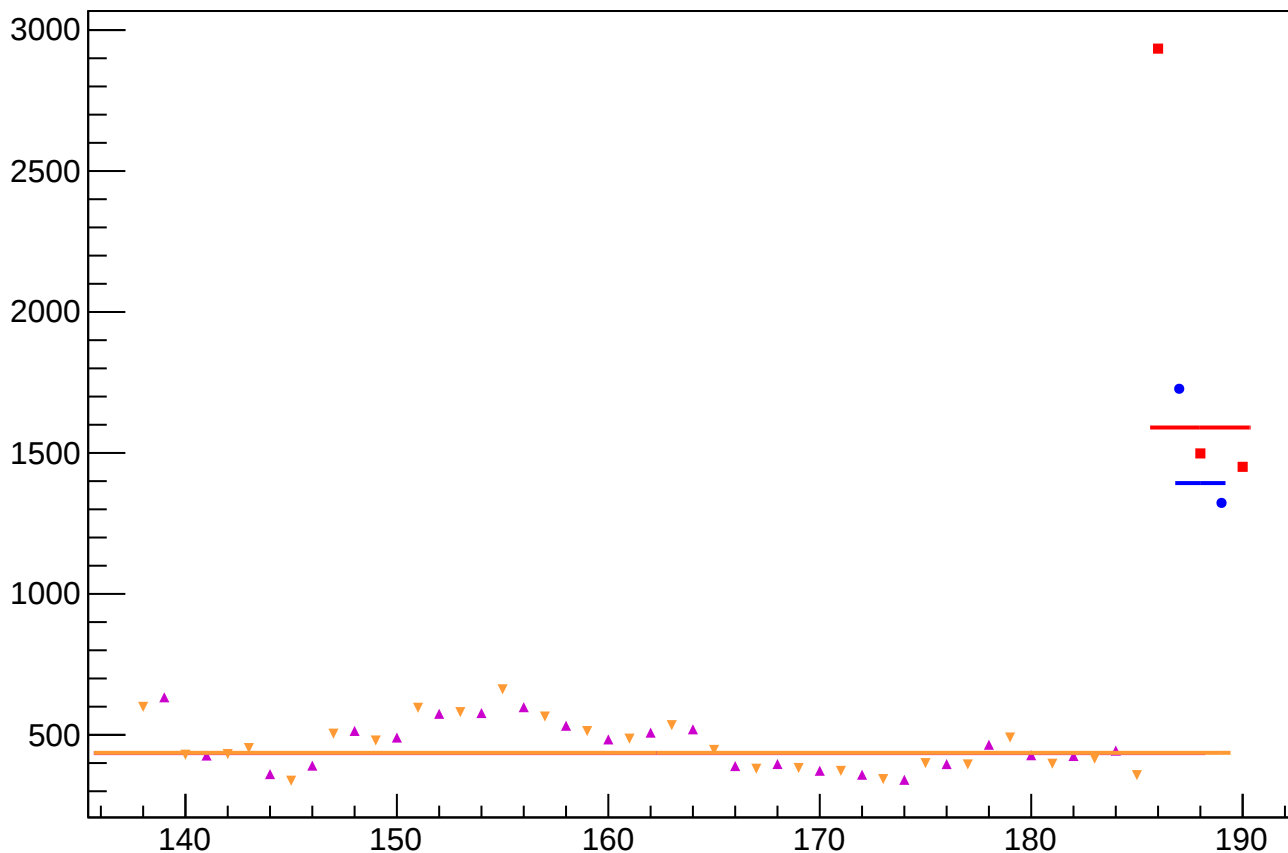
Right: 936.248 $\pm$ 1062.856 χ^2 /NDF: 1.6/4

In: -77.526 $\pm$ 105.763 χ^2 /NDF:26.0/24

Out: 507.421 $\pm$ 103.140 χ^2 /NDF:67.2/27

All: 222.290 $\pm$ 73.841 χ^2 /NDF: 108.9/52

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1393.128+/-1.311 χ^2/NDF : 13686.1/1

Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24

Right Out: 1590.206+/-0.917 χ^2/NDF : 169249.1/2

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

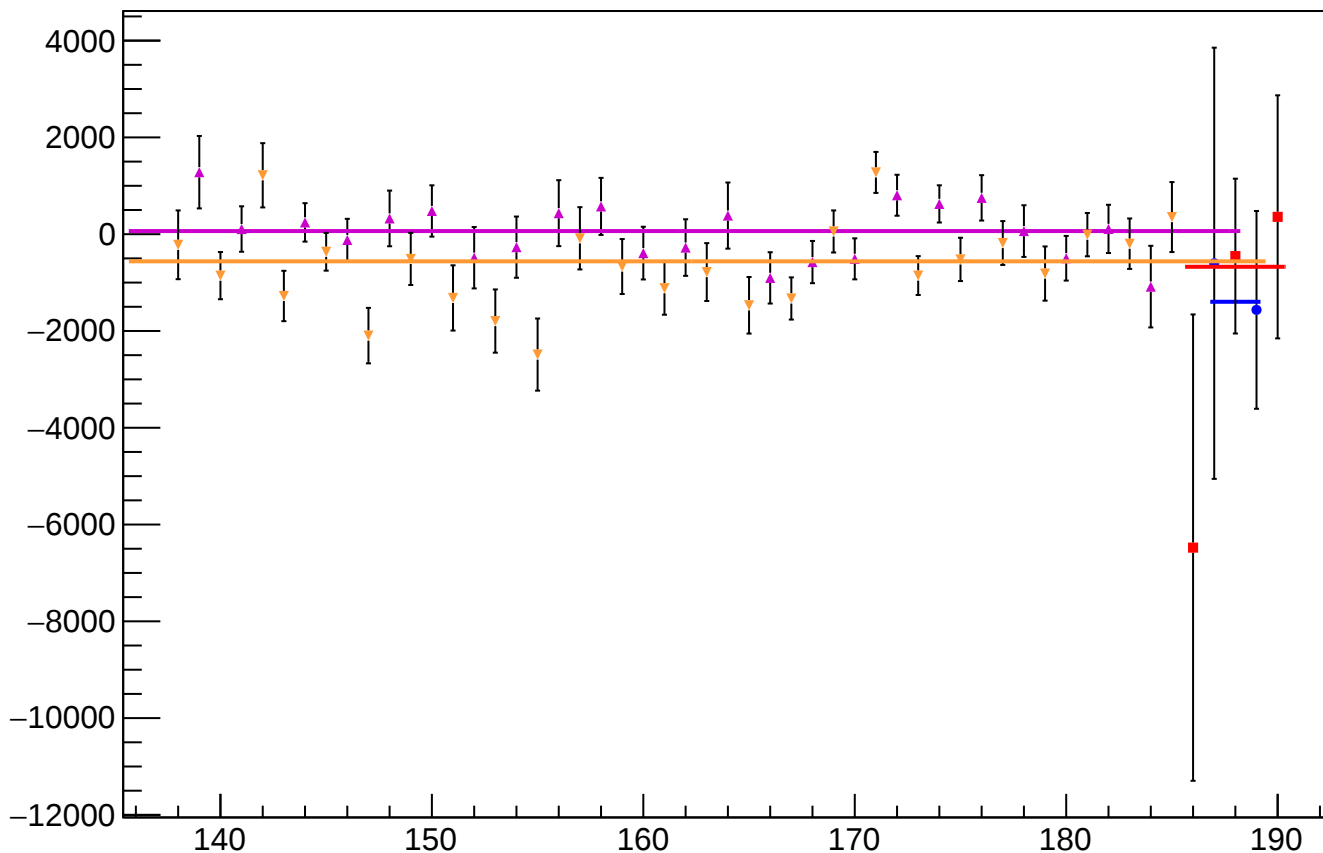
Right: 1525.452+/-0.752 χ^2/NDF : 198105.2/4

In: 438.391+/-0.075 χ^2/NDF :1573371.6/24

Out: 443.597+/-0.073 χ^2/NDF :2921375.7/27

All: 441.060+/-0.052 χ^2/NDF : 4497231.1/52

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1396.554 $\pm$ 1857.539 χ^2 /NDF: 0.0/1

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: -673.443 $\pm$ 1299.108 χ^2 /NDF: 1.6/2

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

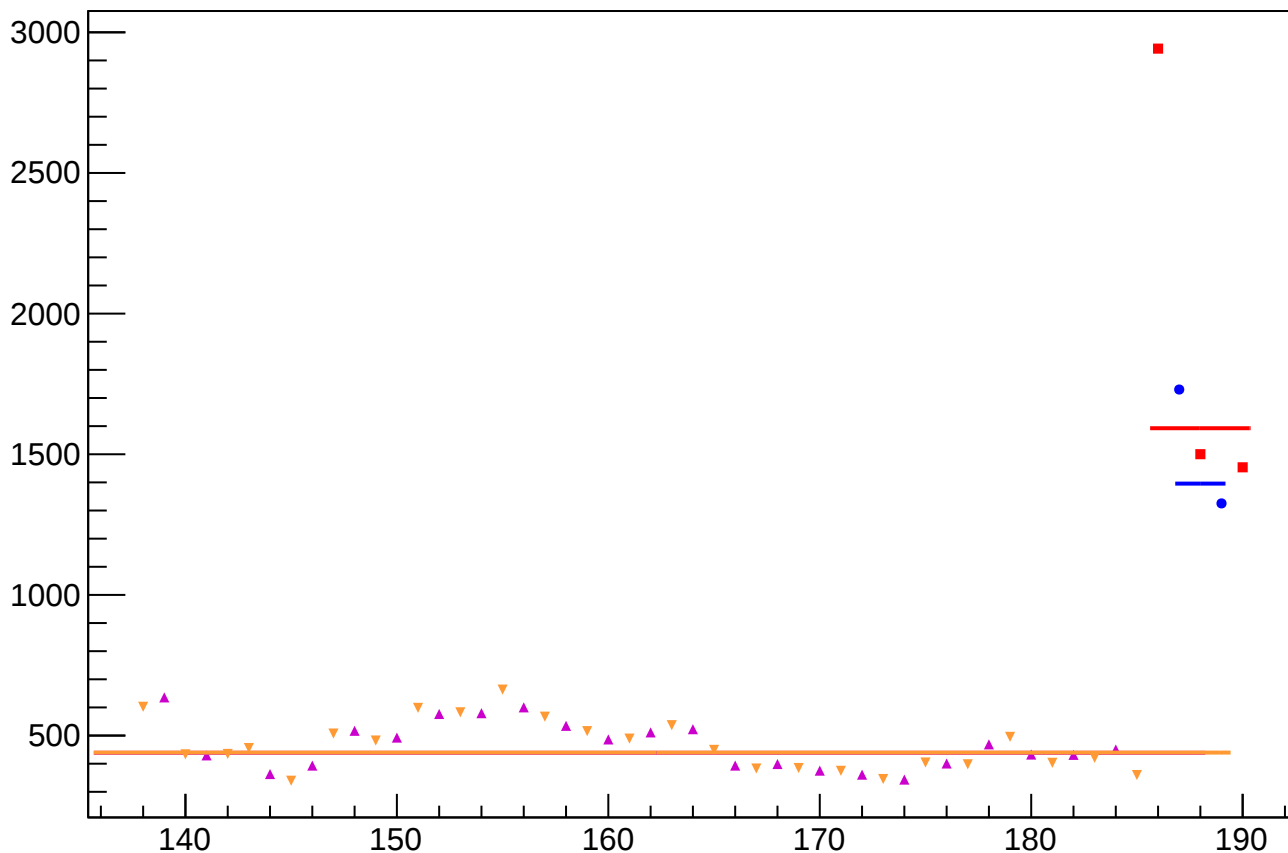
Right: -910.958 $\pm$ 1064.586 χ^2 /NDF: 1.8/4

In: 59.788 $\pm$ 106.532 χ^2 /NDF:25.8/24

Out: -561.405 $\pm$ 103.874 χ^2 /NDF:63.4/27

All: -258.656 $\pm$ 74.372 χ^2 /NDF: 106.7/52

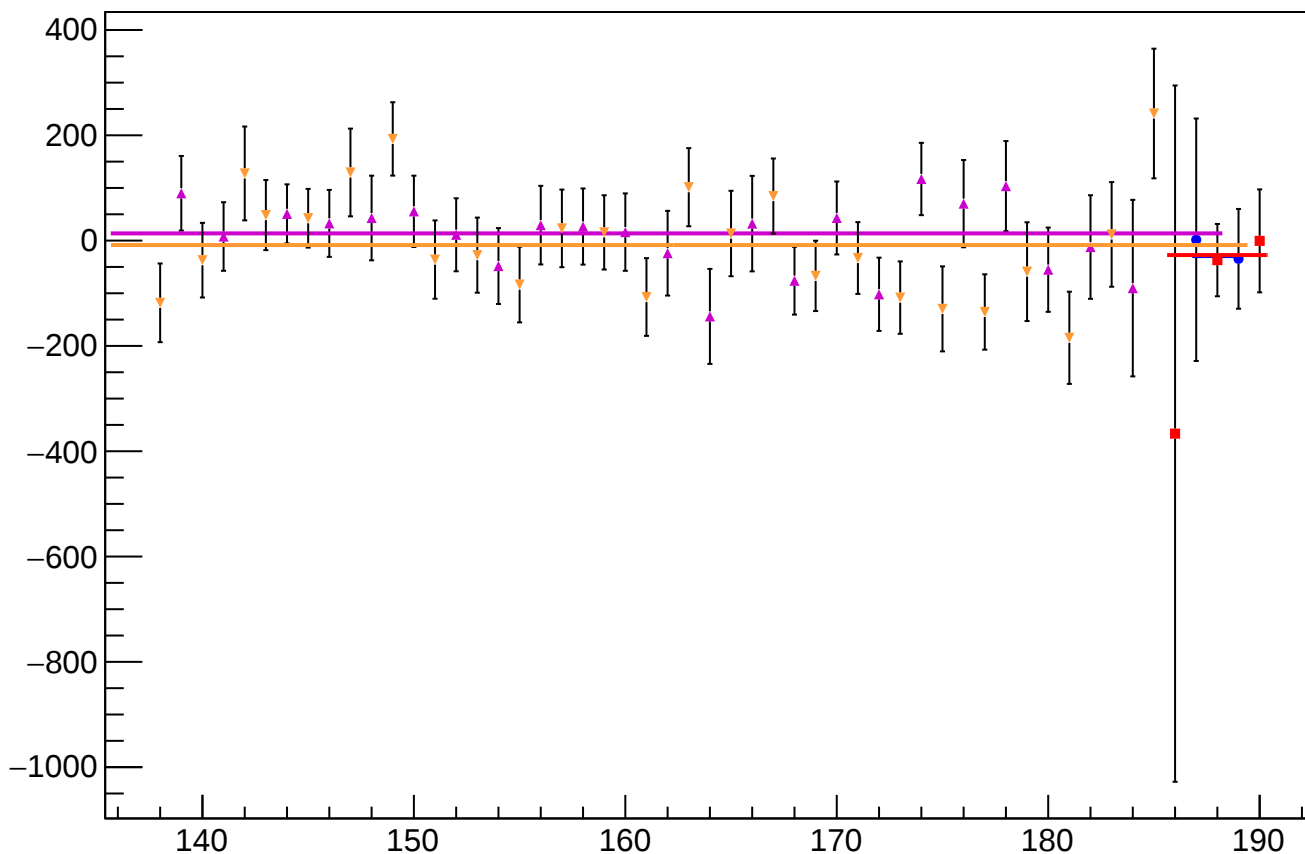
asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1395.693+/-1.313 χ^2/NDF : 13641.1/1
 Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24
 Right Out: 1592.586+/-0.919 χ^2/NDF : 169638.6/2
 Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47
 Right: 1527.914+/-0.753 χ^2/NDF : 198369.6/4
 In: 441.696+/-0.075 χ^2/NDF :1555984.8/24
 Out: 446.899+/-0.073 χ^2/NDF :2898505.1/27
 All: 444.363+/-0.053 χ^2/NDF : 4456935.3/52

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -29.367 ± 87.608 $\chi^2/\text{NDF}: 0.0/1$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: -27.437 ± 55.986 $\chi^2/\text{NDF}: 0.4/2$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

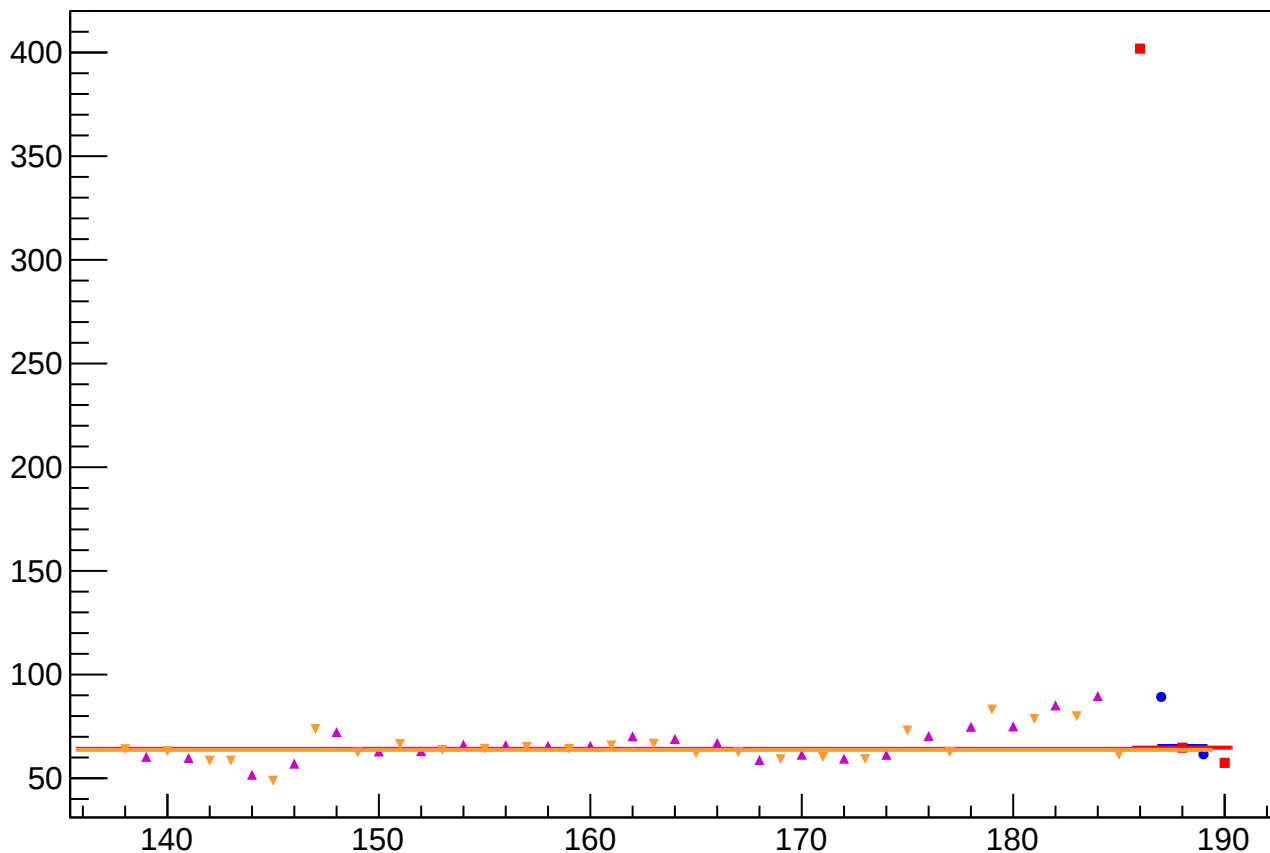
Right: -27.996 ± 47.176 $\chi^2/\text{NDF}: 0.4/4$

In: 12.419 ± 15.242 $\chi^2/\text{NDF}: 16.5/24$

Out: -9.680 ± 14.430 $\chi^2/\text{NDF}: 42.1/27$

All: 0.765 ± 10.479 $\chi^2/\text{NDF}: 59.7/52$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 65.550 $\pm$ 0.062 χ^2 /NDF: 24699.6/1

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 64.763 $\pm$ 0.040 χ^2 /NDF: 531155.3/2

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

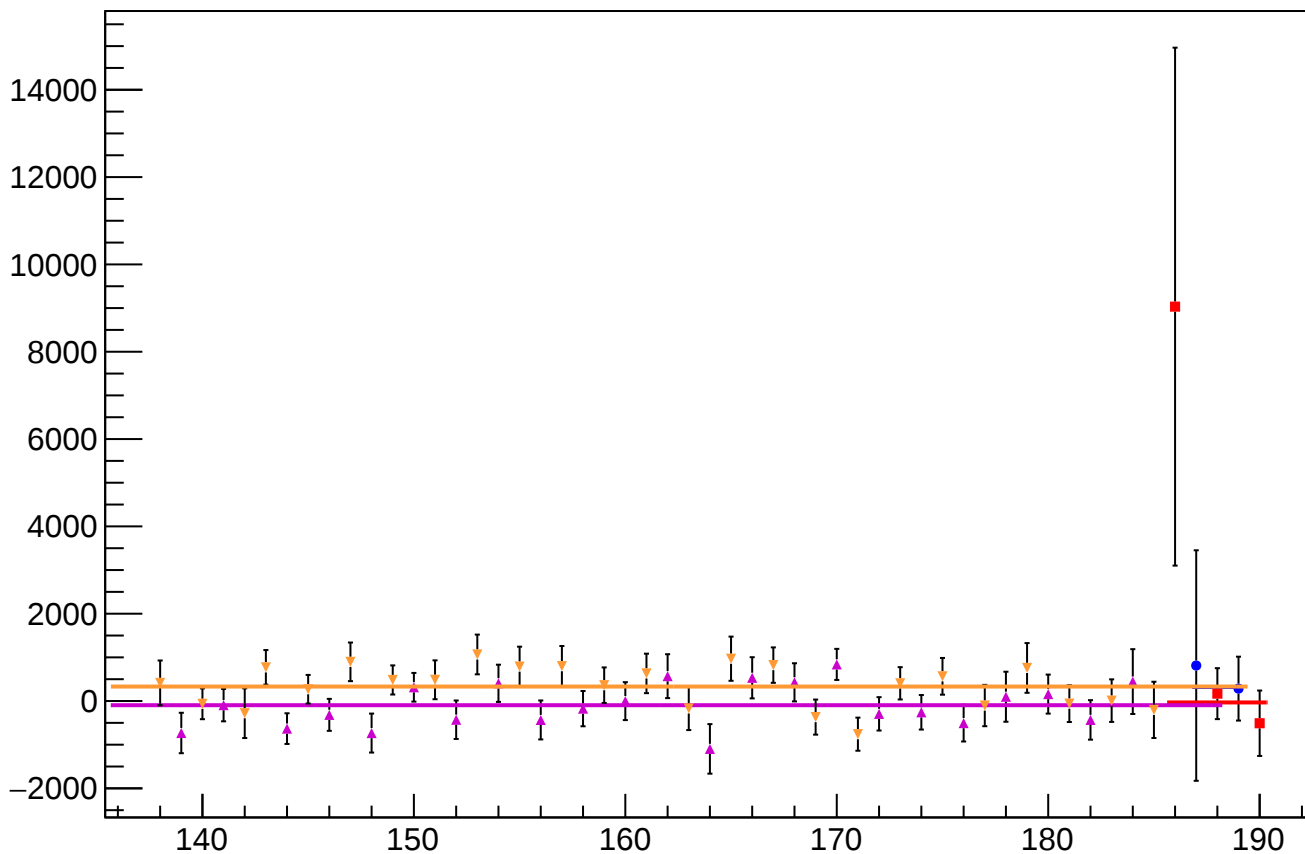
Right: 64.991 $\pm$ 0.033 χ^2 /NDF: 555969.6/4

In: 64.230 $\pm$ 0.011 χ^2 /NDF: 454838.0/24

Out: 63.767 $\pm$ 0.010 χ^2 /NDF: 980272.7/27

All: 63.986 $\pm$ 0.007 χ^2 /NDF: 1436085.8/52

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 321.745+/-705.164 χ^2/NDF : 0.0/1

Left Out: 331.739+/-86.071 χ^2/NDF :29.9/24

Right Out: -32.509+/-458.804 χ^2/NDF : 2.9/2

Left In: -95.910+/-88.656 χ^2/NDF :28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

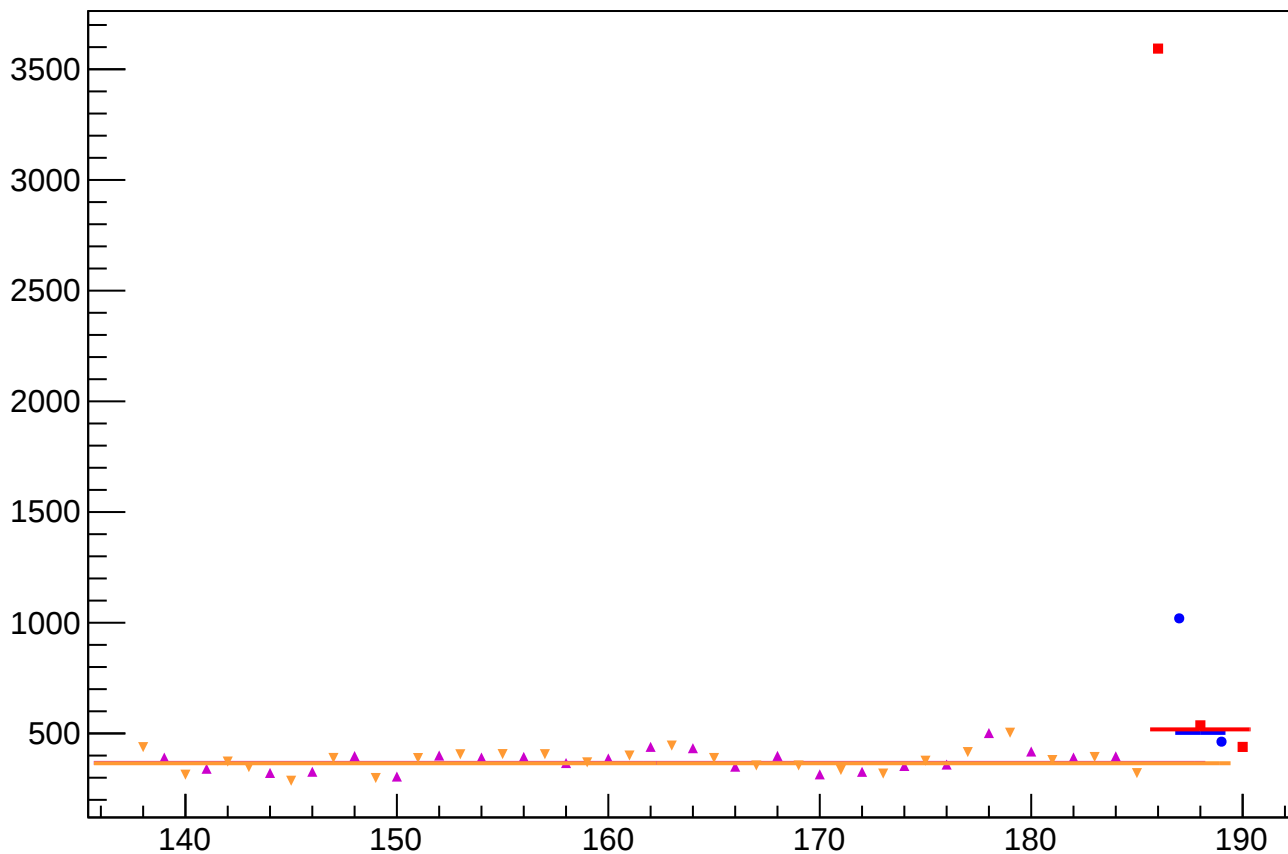
Right: 72.853+/-384.570 χ^2/NDF : 3.1/4

In: -89.411+/-87.963 χ^2/NDF :29.1/24

Out: 319.355+/-84.595 χ^2/NDF :33.4/27

All: 122.948+/-60.974 χ^2/NDF : 73.6/52

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 502.521+/-0.499 χ^2/NDF : 82687.1/1

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 518.290+/-0.324 χ^2/NDF : 561879.8/2

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

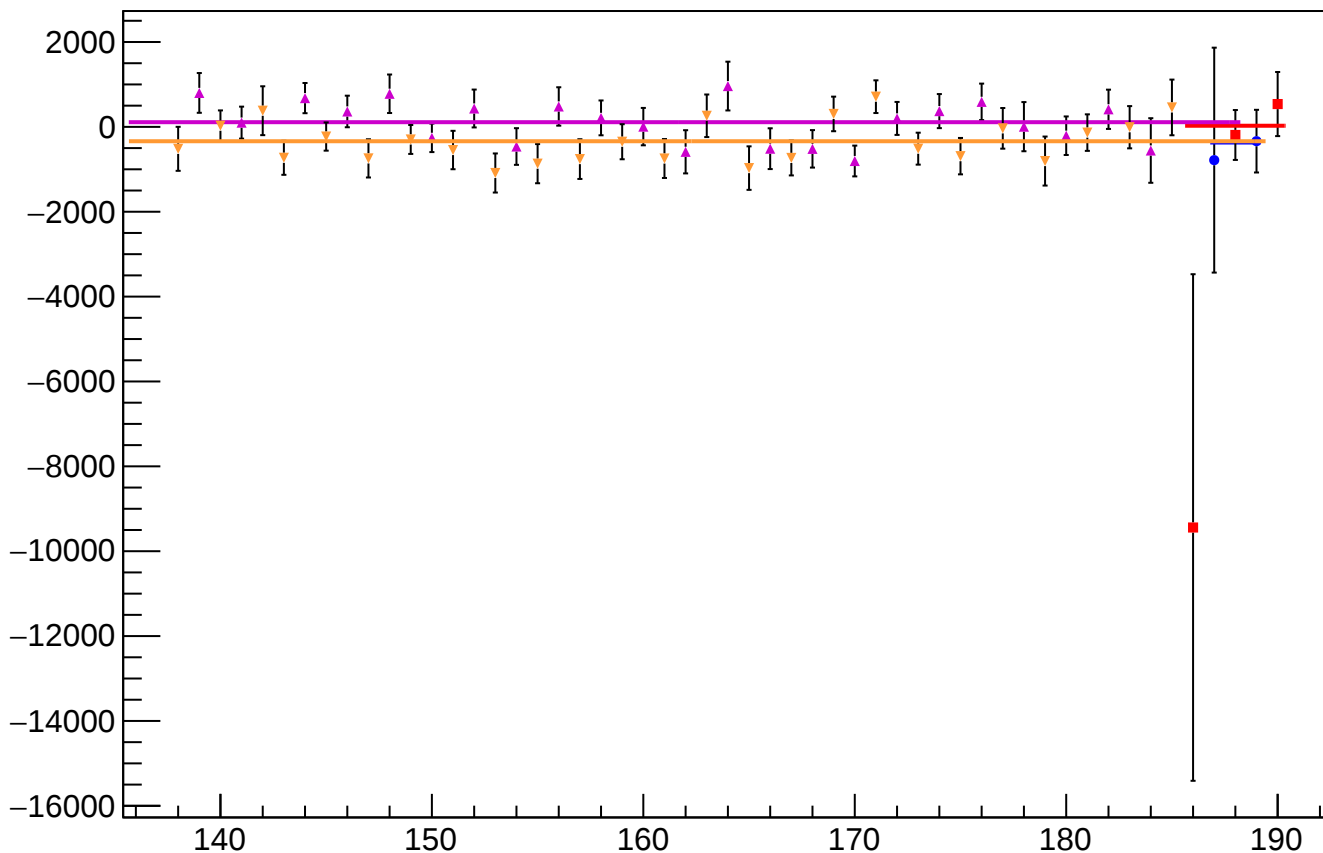
Right: 513.600+/-0.272 χ^2/NDF : 645269.5/4

In: 369.035+/-0.062 χ^2/NDF : 633569.4/24

Out: 370.554+/-0.060 χ^2/NDF : 1395000.4/27

All: 369.824+/-0.043 χ^2/NDF : 2028880.0/52

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -368.775+/-711.398 χ^2/NDF : 0.0/1

Left Out: -338.528+/-87.450 χ^2/NDF :28.2/24

Right Out: 26.639+/-462.585 χ^2/NDF : 3.1/2

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

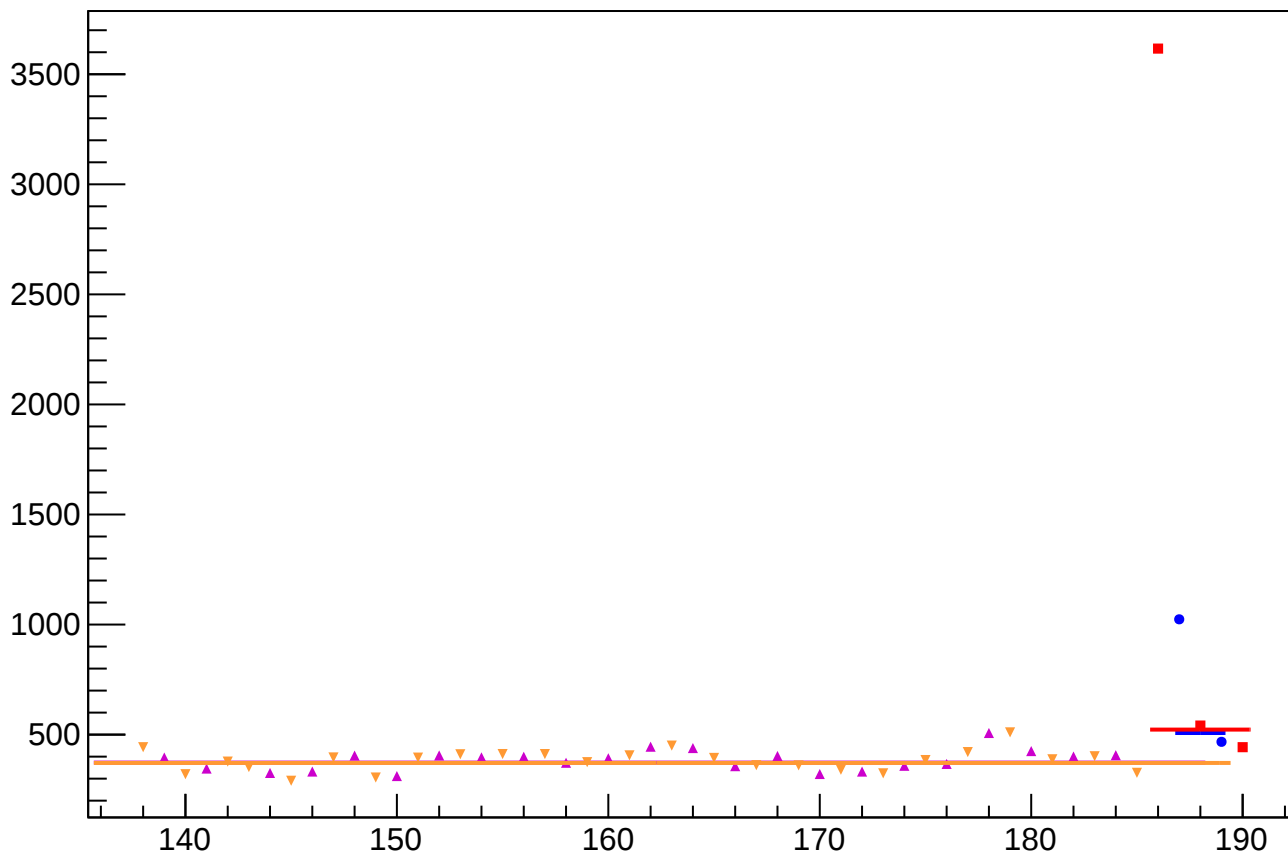
Right: -90.867+/-387.808 χ^2/NDF : 3.4/4

In: 102.779+/-89.370 χ^2/NDF :29.7/24

Out: -325.928+/-85.928 χ^2/NDF :31.9/27

All: -119.988+/-61.941 χ^2/NDF : 73.6/52

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 507.362 $\pm$ 0.503 χ^2 /NDF: 81851.1/1

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 522.831 $\pm$ 0.327 χ^2 /NDF: 561561.6/2

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

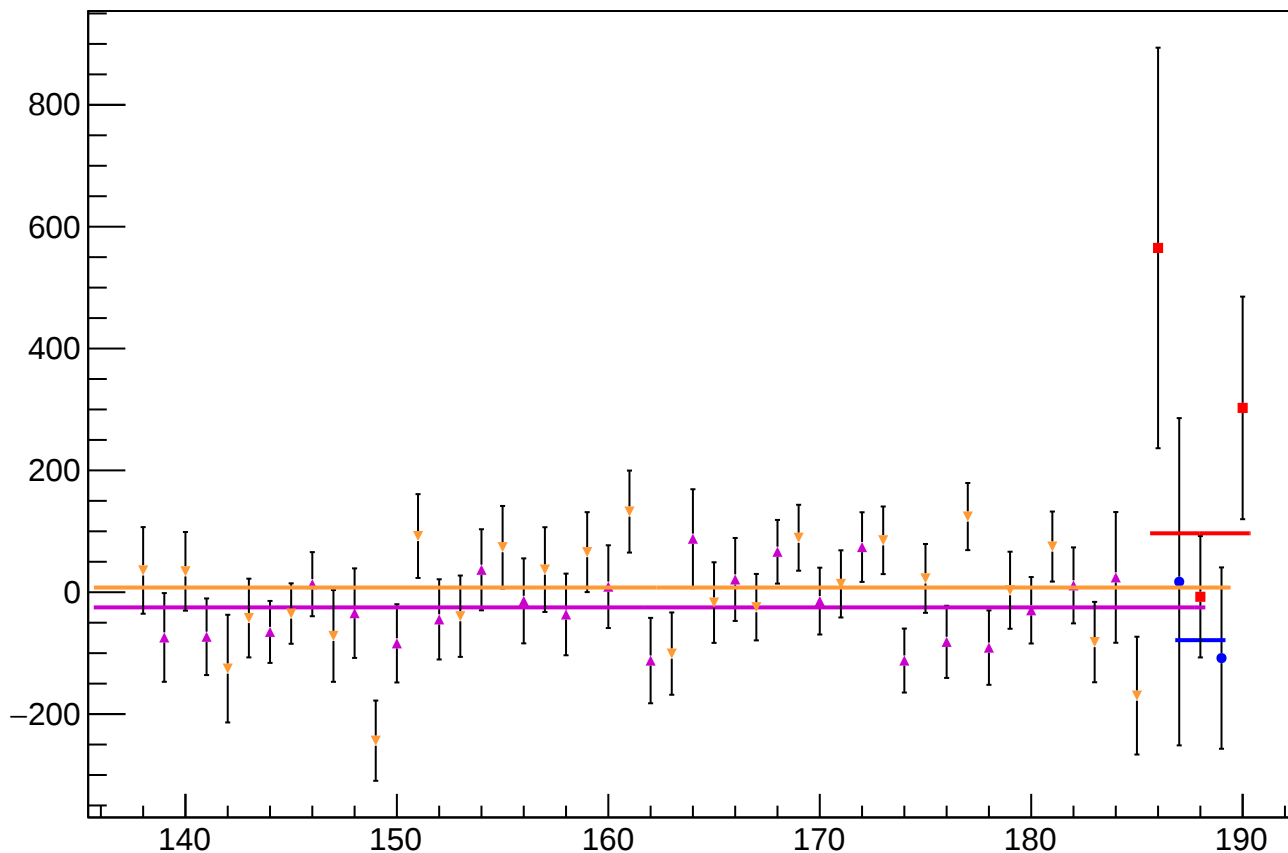
Right: 518.234 $\pm$ 0.274 χ^2 /NDF: 644077.4/4

In: 375.059 $\pm$ 0.063 χ^2 /NDF: 619475.0/24

Out: 376.583 $\pm$ 0.061 χ^2 /NDF: 1372685.2/27

All: 375.851 $\pm$ 0.044 χ^2 /NDF: 1992462.1/52

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -78.659+/-130.183 χ^2/NDF : 0.2/1

Left Out: 7.723+/-12.656 χ^2/NDF :45.4/24

Right Out: 96.729+/-84.496 χ^2/NDF : 4.4/2

Left In: -24.887+/-13.029 χ^2/NDF :19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

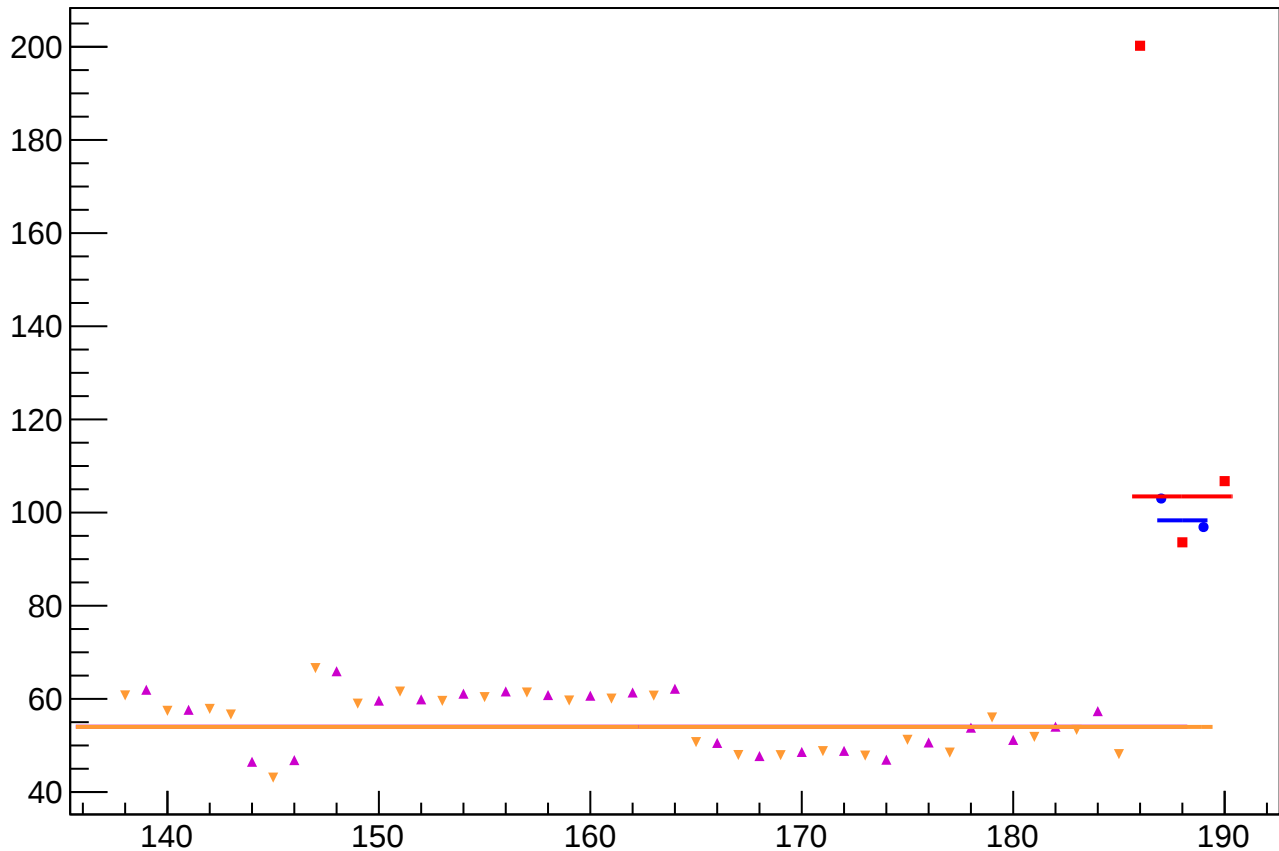
Right: 44.743+/-70.876 χ^2/NDF : 5.8/4

In: -25.421+/-12.964 χ^2/NDF :20.1/24

Out: 9.676+/-12.516 χ^2/NDF :50.9/27

All: -7.255+/-9.004 χ^2/NDF : 74.8/52

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 98.331+/-0.092 χ^2/NDF : 795.0/1

Left Out: 53.984+/-0.009 χ^2/NDF : 458972.1/24

Right Out: 103.469+/-0.060 χ^2/NDF : 193489.5/2

Left In: 54.028+/-0.009 χ^2/NDF : 443819.5/22

Left: 54.005+/-0.006 χ^2/NDF : 902803.3/47

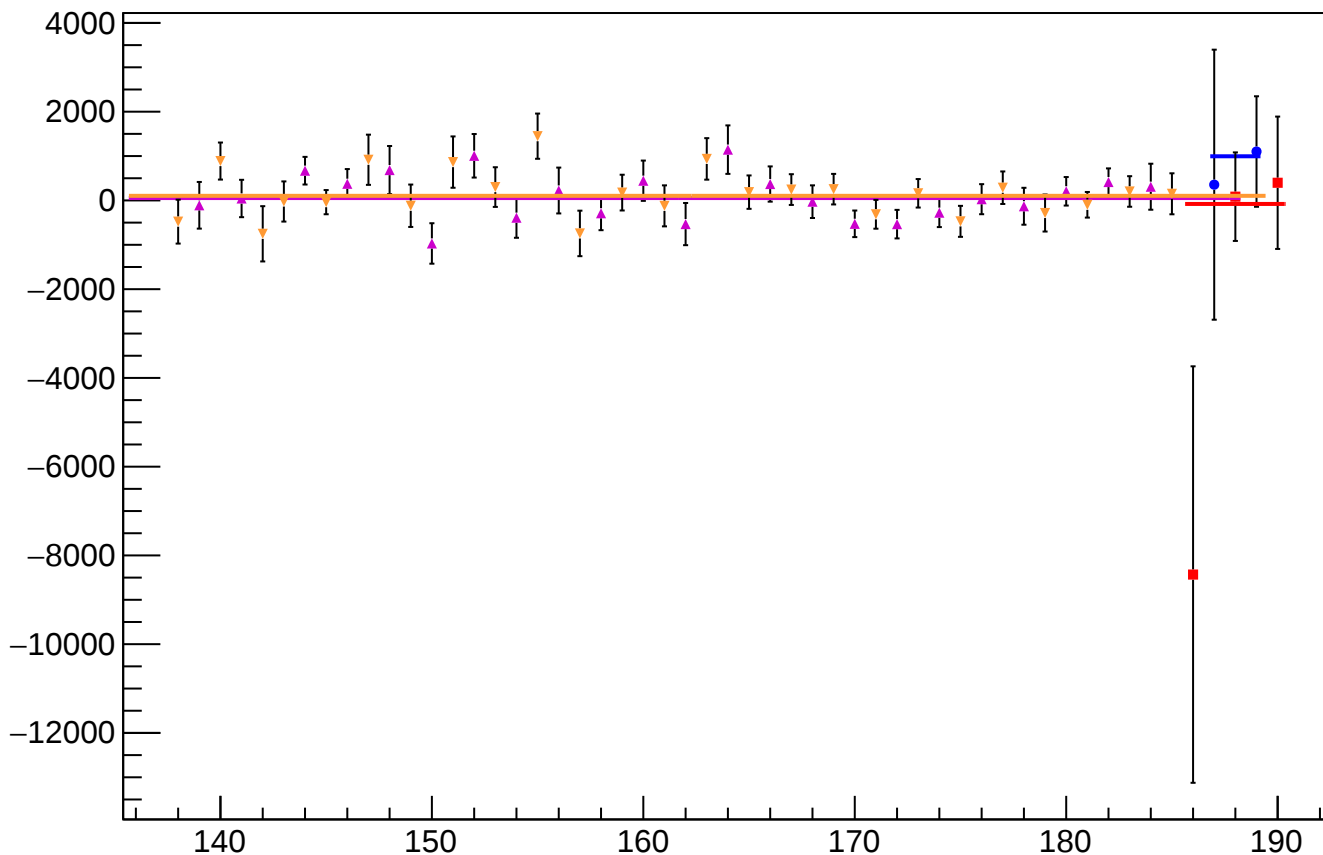
Right: 101.946+/-0.050 χ^2/NDF : 196476.0/4

In: 54.467+/-0.009 χ^2/NDF : 673948.0/24

Out: 55.069+/-0.009 χ^2/NDF : 1323378.4/27

All: 54.779+/-0.006 χ^2/NDF : 1999561.6/52

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 994.901 $\pm$ 1152.369 χ^2 /NDF: 0.1/1

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -79.218 $\pm$ 816.569 χ^2 /NDF: 3.3/2

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

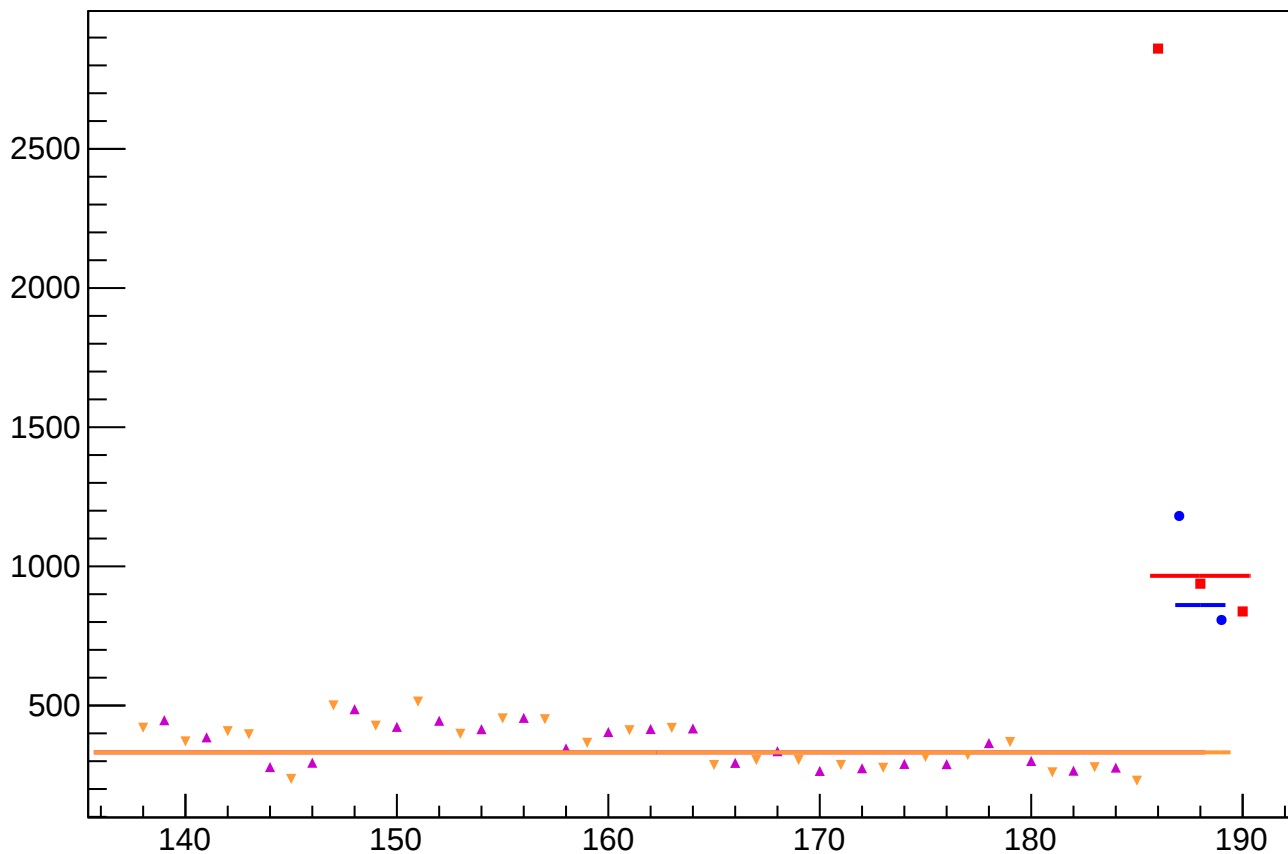
Right: 279.830 $\pm$ 666.257 χ^2 /NDF: 3.9/4

In: 58.144 $\pm$ 81.000 χ^2 /NDF:34.8/24

Out: 102.056 $\pm$ 78.972 χ^2 /NDF:34.3/27

All: 80.657 $\pm$ 56.545 χ^2 /NDF: 69.3/52

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 860.959+/-0.815 χ^2/NDF : 25838.1/1

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 966.014+/-0.577 χ^2/NDF : 342263.4/2

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

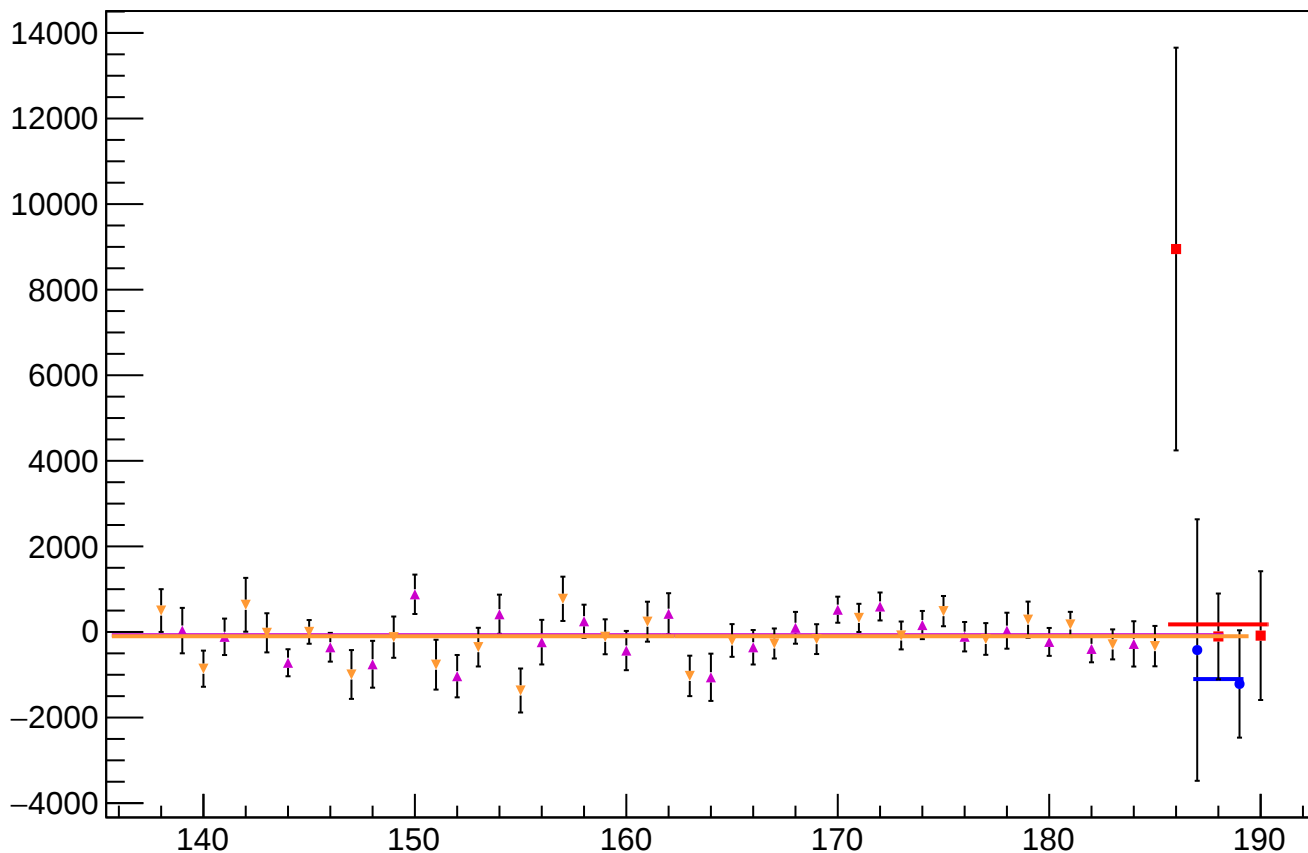
Right: 930.897+/-0.471 χ^2/NDF : 379167.0/4

In: 334.281+/-0.057 χ^2/NDF : 1748875.4/24

Out: 337.703+/-0.056 χ^2/NDF : 3249278.8/27

All: 336.035+/-0.040 χ^2/NDF : 4999984.0/52

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -1100.655+/-1160.505 χ^2/NDF : 0.1/1

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 177.216+/-821.787 χ^2/NDF : 3.6/2

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

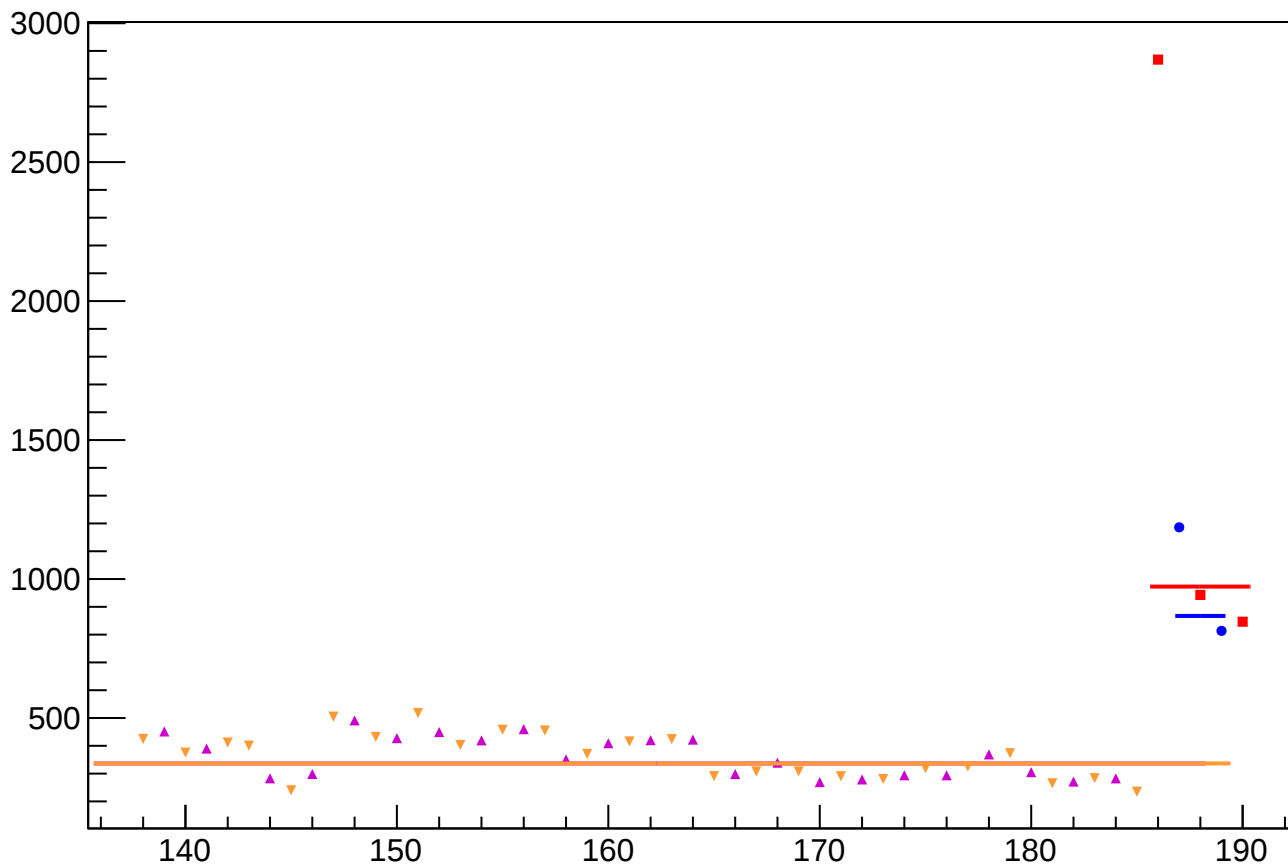
Right: -249.562+/-670.663 χ^2/NDF : 4.4/4

In: -80.711+/-82.112 χ^2/NDF : 32.9/24

Out: -97.157+/-80.046 χ^2/NDF : 34.4/27

All: -89.144+/-57.317 χ^2/NDF : 67.3/52

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 867.257+/-0.821 χ^2/NDF : 25434.4/1

Left Out: 336.557+/-0.057 χ^2/NDF :1665919.4/24

Right Out: 972.830+/-0.581 χ^2/NDF : 340480.6/2

Left In: 336.439+/-0.058 χ^2/NDF :1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

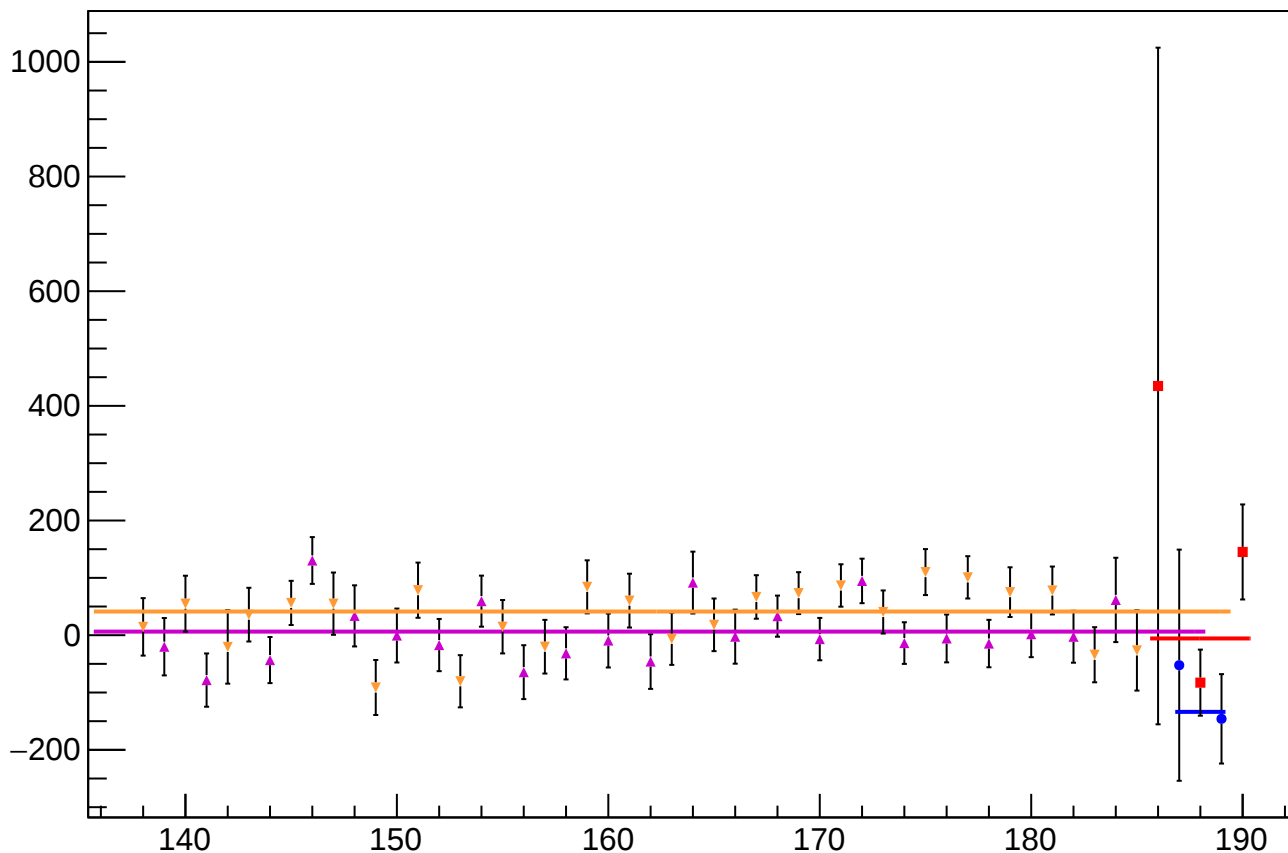
Right: 937.571+/-0.474 χ^2/NDF : 376938.9/4

In: 339.097+/-0.058 χ^2/NDF :1710838.4/24

Out: 342.594+/-0.057 χ^2/NDF :3193965.4/27

All: 340.890+/-0.041 χ^2/NDF : 4906664.0/52

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -133.739 ± 72.724 $\chi^2/\text{NDF}: 0.2/1$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -5.689 ± 47.158 $\chi^2/\text{NDF}: 5.7/2$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

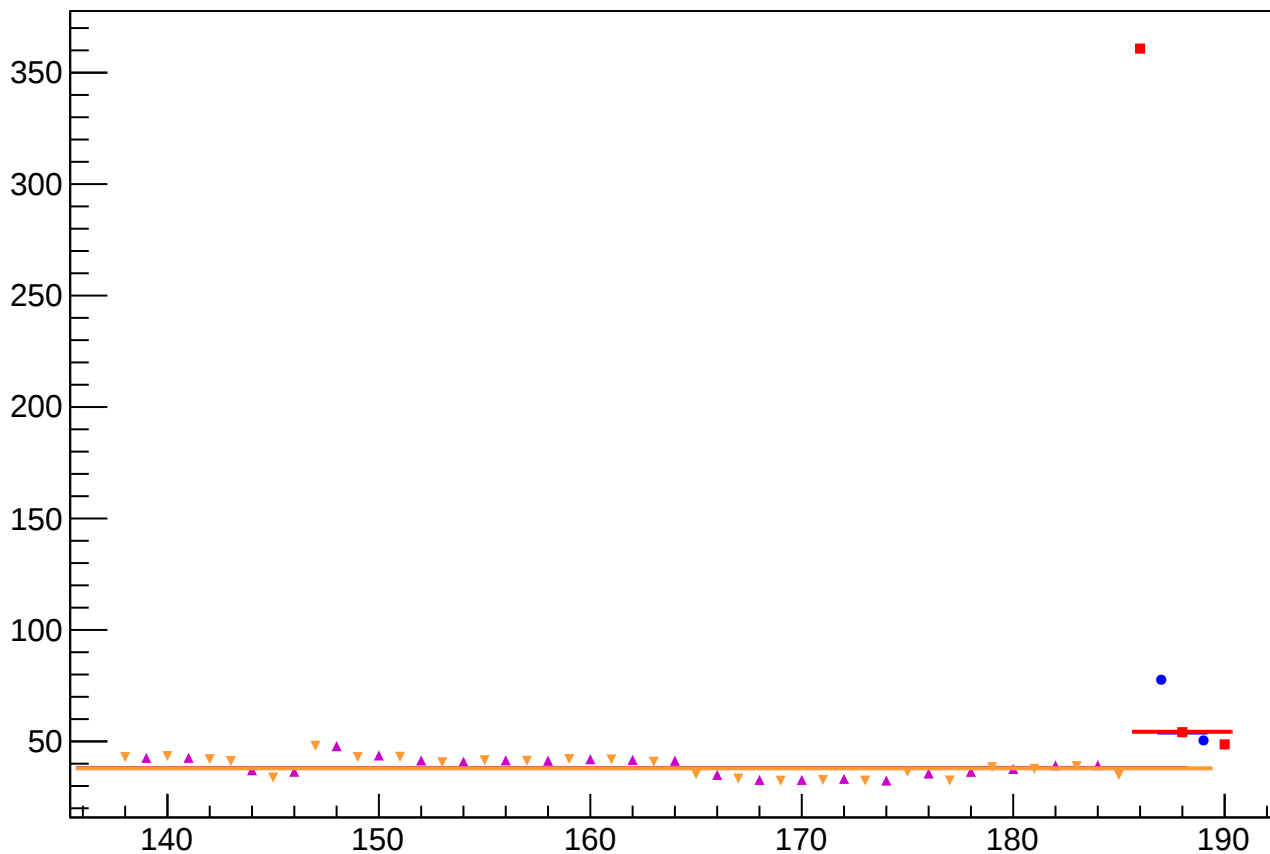
Right: -43.594 ± 39.568 $\chi^2/\text{NDF}: 8.0/4$

In: 4.061 ± 9.103 $\chi^2/\text{NDF}: 34.1/24$

Out: 39.672 ± 8.735 $\chi^2/\text{NDF}: 41.0/27$

All: 22.599 ± 6.303 $\chi^2/\text{NDF}: 83.1/52$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 53.976 $\pm$ 0.051 χ^2 /NDF: 31724.0/1

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 54.320 $\pm$ 0.033 χ^2 /NDF: 548799.5/2

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

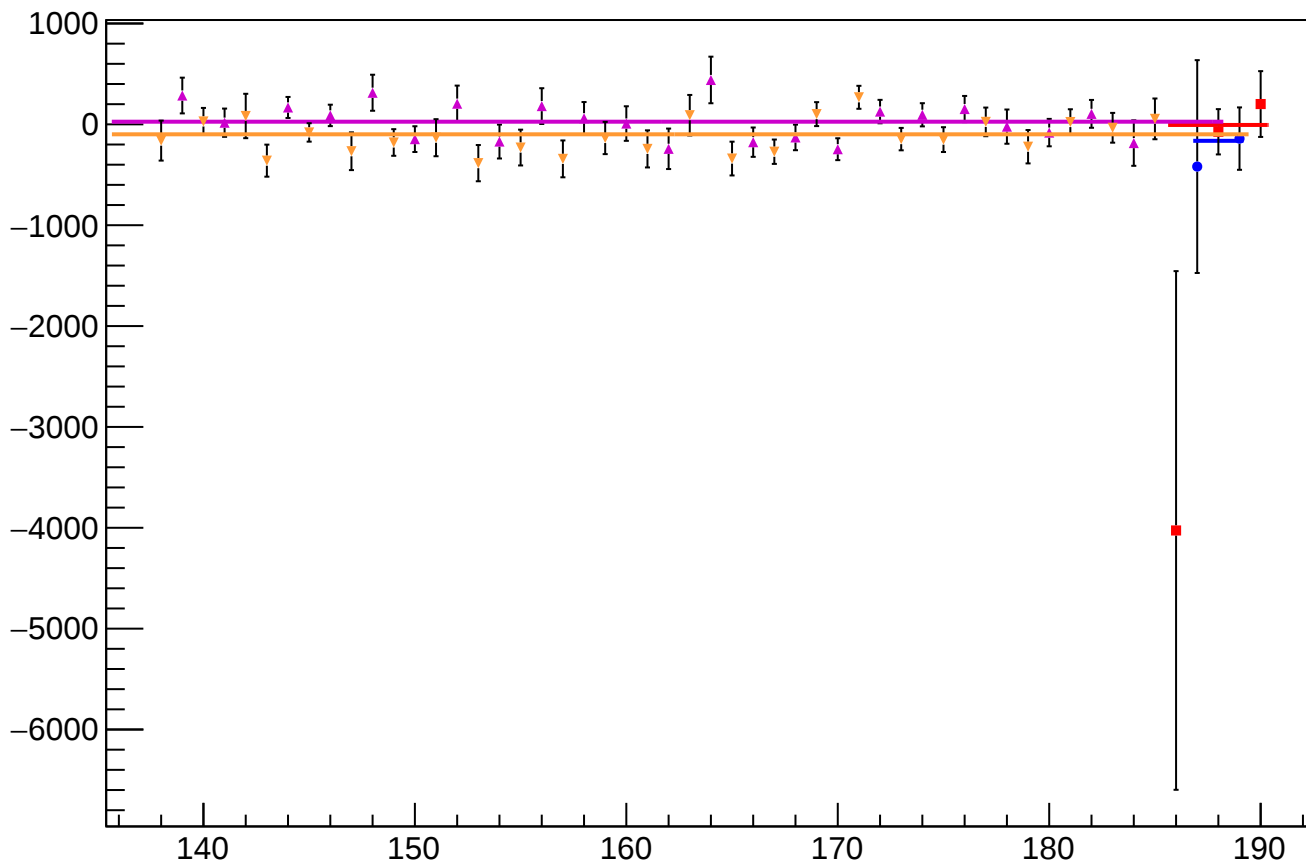
Right: 54.218 $\pm$ 0.028 χ^2 /NDF: 580554.9/4

In: 38.336 $\pm$ 0.006 χ^2 /NDF: 522027.7/24

Out: 38.488 $\pm$ 0.006 χ^2 /NDF: 1269307.5/27

All: 38.415 $\pm$ 0.004 χ^2 /NDF: 1791623.3/52

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -163.374 $\pm$ 296.859 χ^2 /NDF: 0.1/1

Left Out: -98.741 $\pm$ 29.095 χ^2 /NDF:32.7/24

Right Out: -6.021 $\pm$ 184.482 χ^2 /NDF: 2.9/2

Left In: 26.223 $\pm$ 29.676 χ^2 /NDF:30.7/22

Left: -37.493 $\pm$ 20.776 χ^2 /NDF: 72.5/47

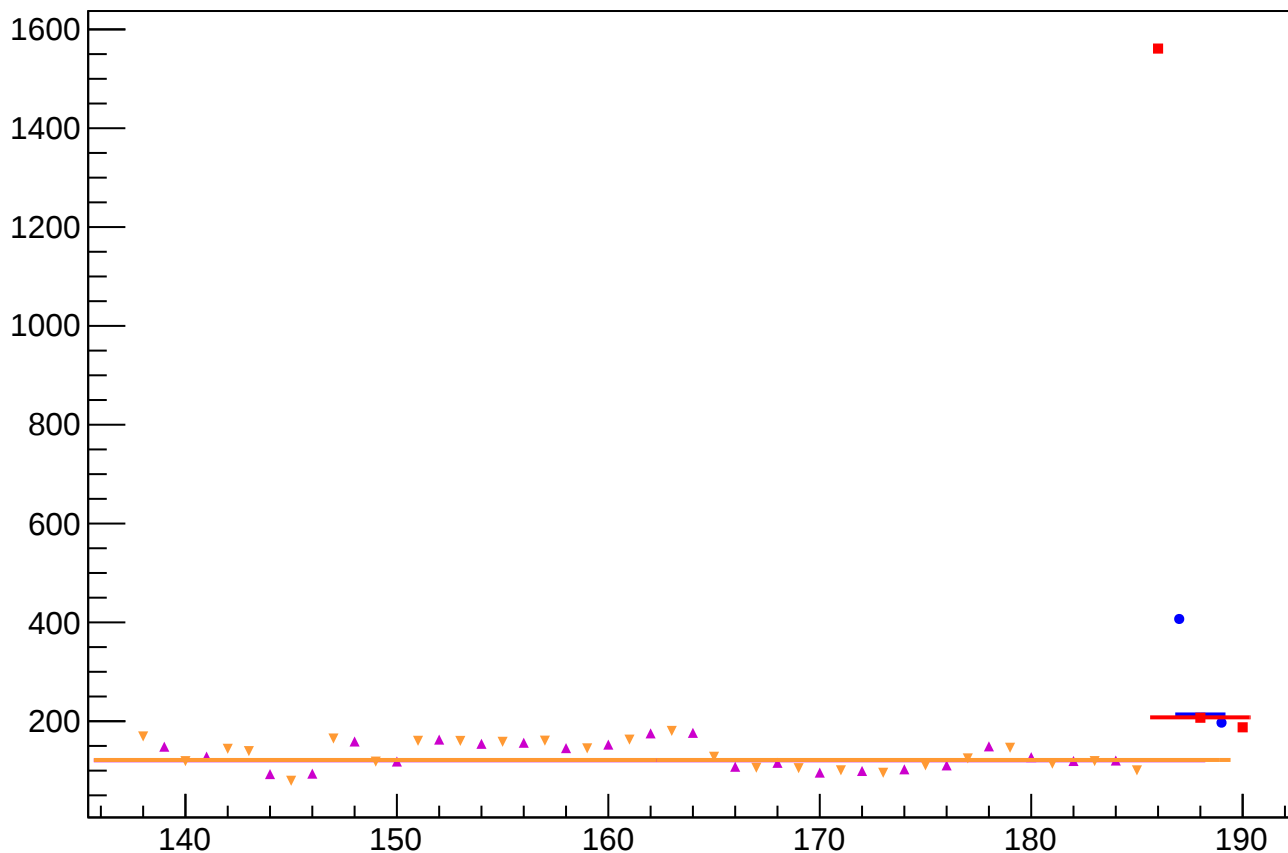
Right: -49.860 $\pm$ 156.690 χ^2 /NDF: 3.2/4

In: 24.347 $\pm$ 29.528 χ^2 /NDF:31.1/24

Out: -96.491 $\pm$ 28.740 χ^2 /NDF:35.9/27

All: -37.707 $\pm$ 20.595 χ^2 /NDF: 75.7/52

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 213.676 $\pm$ 0.210 χ^2 /NDF: 72860.4/1

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 207.813 $\pm$ 0.130 χ^2 /NDF: 561747.2/2

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

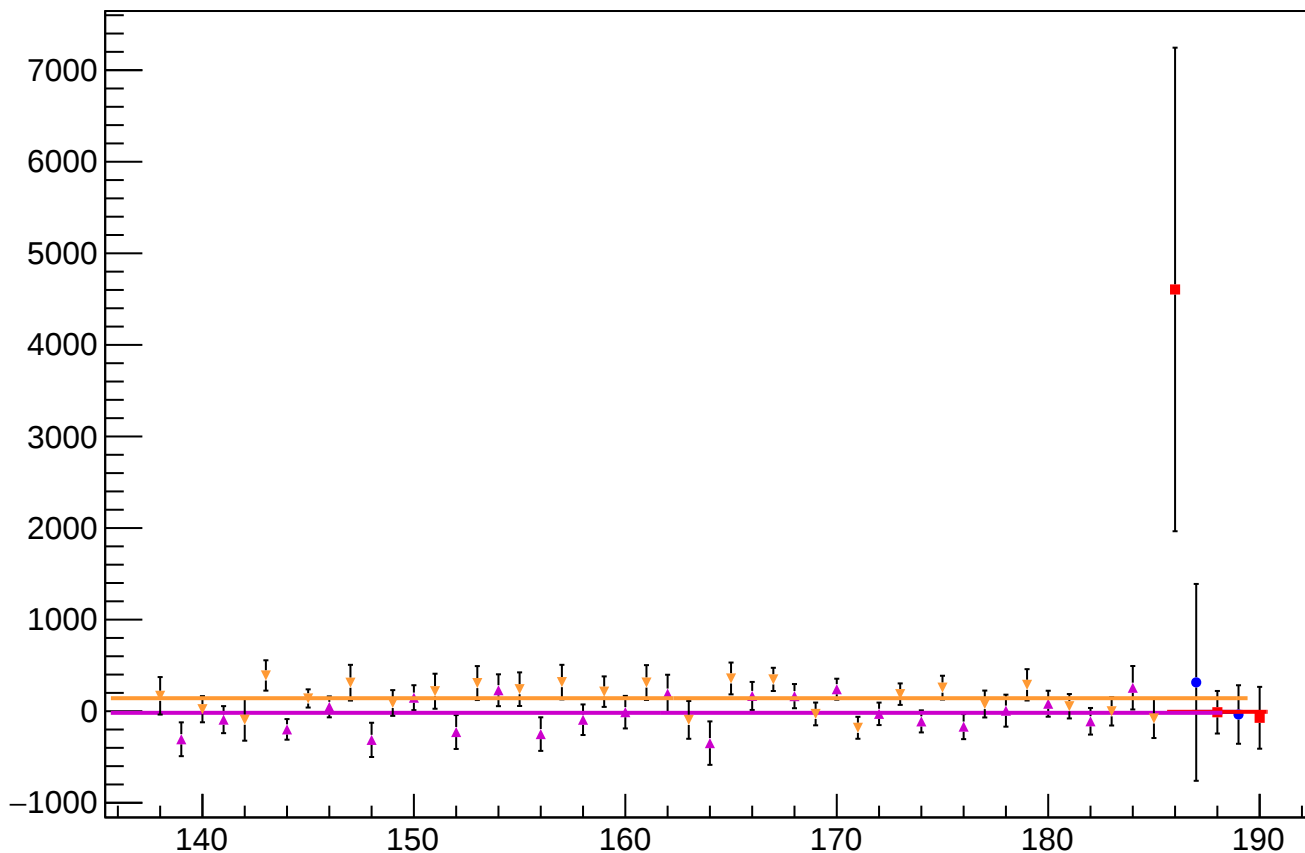
Right: 209.447 $\pm$ 0.111 χ^2 /NDF: 635170.4/4

In: 121.845 $\pm$ 0.021 χ^2 /NDF:1649021.6/24

Out: 123.685 $\pm$ 0.020 χ^2 /NDF:2699437.3/27

All: 122.789 $\pm$ 0.015 χ^2 /NDF: 4352446.9/52

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -7.544 ± 306.285 $\chi^2/\text{NDF}: 0.1/1$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -6.536 ± 190.946 $\chi^2/\text{NDF}: 3.1/2$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

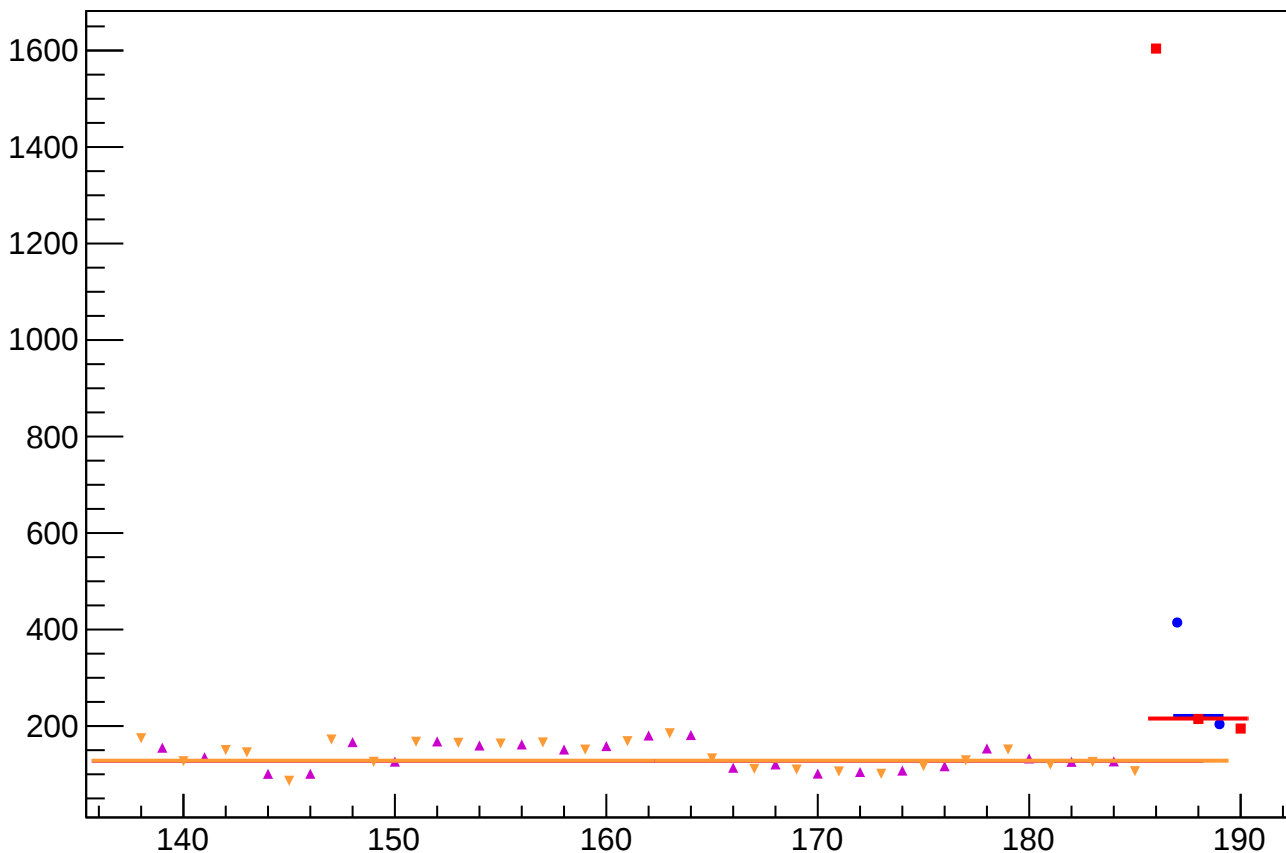
Right: -6.818 ± 162.036 $\chi^2/\text{NDF}: 3.2/4$

In: -17.575 ± 31.048 $\chi^2/\text{NDF}: 30.2/24$

Out: 138.301 ± 30.190 $\chi^2/\text{NDF}: 30.6/27$

All: 62.547 ± 21.644 $\chi^2/\text{NDF}: 73.8/52$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 220.882 $\pm$ 0.217 χ^2 /NDF: 70683.2/1

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 215.565 $\pm$ 0.135 χ^2 /NDF: 560729.0/2

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

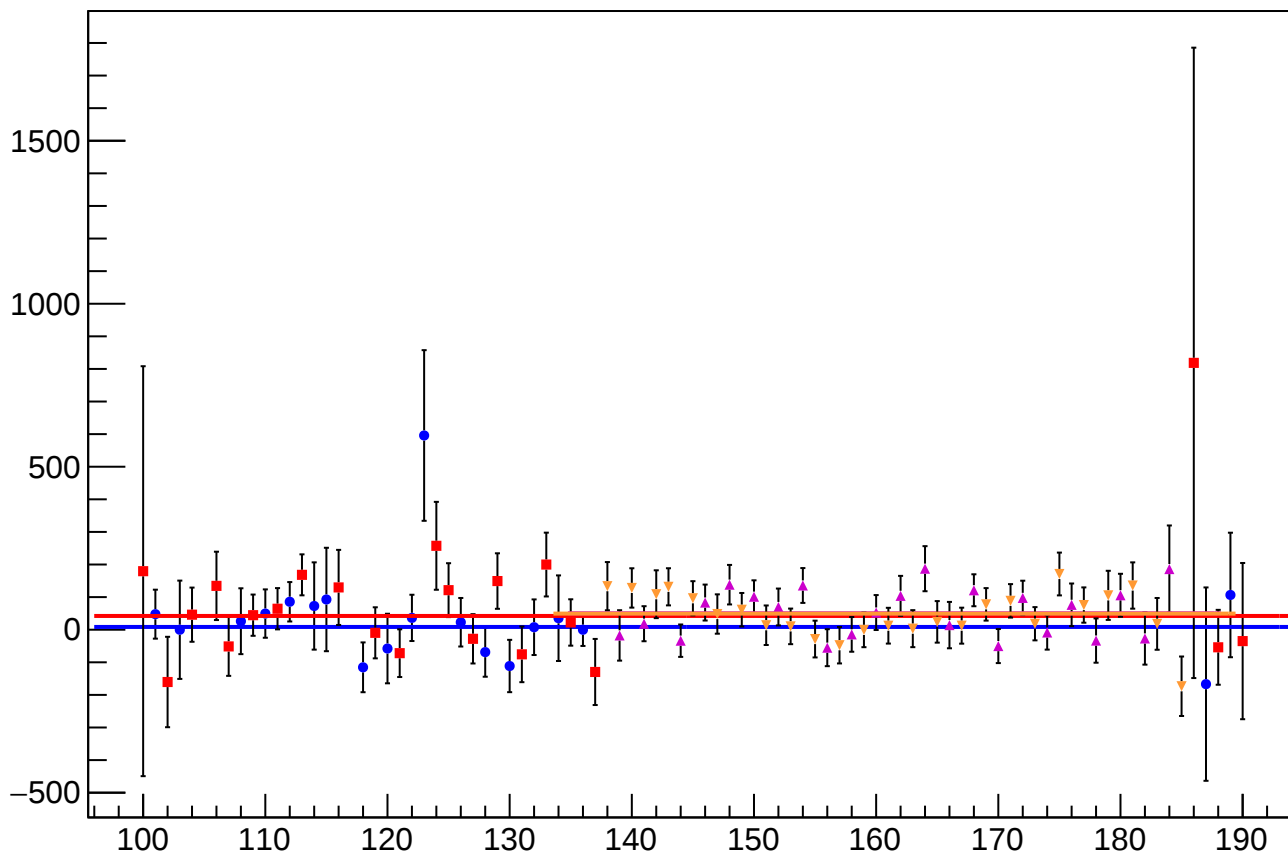
Right: 217.053 $\pm$ 0.115 χ^2 /NDF: 631846.4/4

In: 128.503 $\pm$ 0.022 χ^2 /NDF:1490217.4/24

Out: 130.360 $\pm$ 0.021 χ^2 /NDF:2502096.6/27

All: 129.457 $\pm$ 0.015 χ^2 /NDF: 3995990.8/52

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 8.460 ± 20.028 $\chi^2/\text{NDF}: 15.0/18$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 42.186 ± 19.121 $\chi^2/\text{NDF}: 26.4/21$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

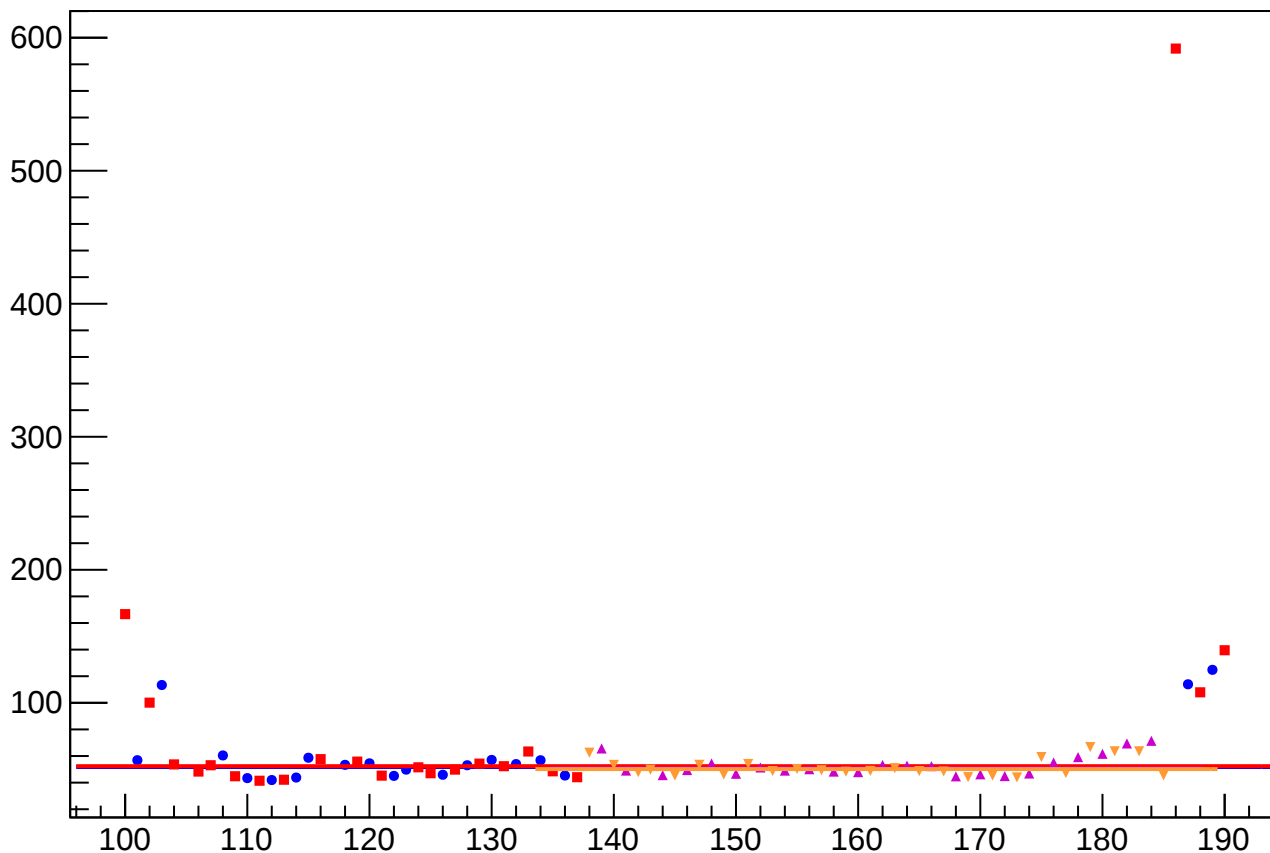
Right: 26.104 ± 13.830 $\chi^2/\text{NDF}: 42.9/40$

In: 38.927 ± 10.452 $\chi^2/\text{NDF}: 50.3/41$

Out: 47.410 ± 10.045 $\chi^2/\text{NDF}: 54.6/46$

All: 43.337 ± 7.243 $\chi^2/\text{NDF}: 105.3/88$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 51.741 $\pm$ 0.014 χ^2 /NDF: 906771.4/18

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 52.365 $\pm$ 0.014 χ^2 /NDF: 1885643.8/21

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

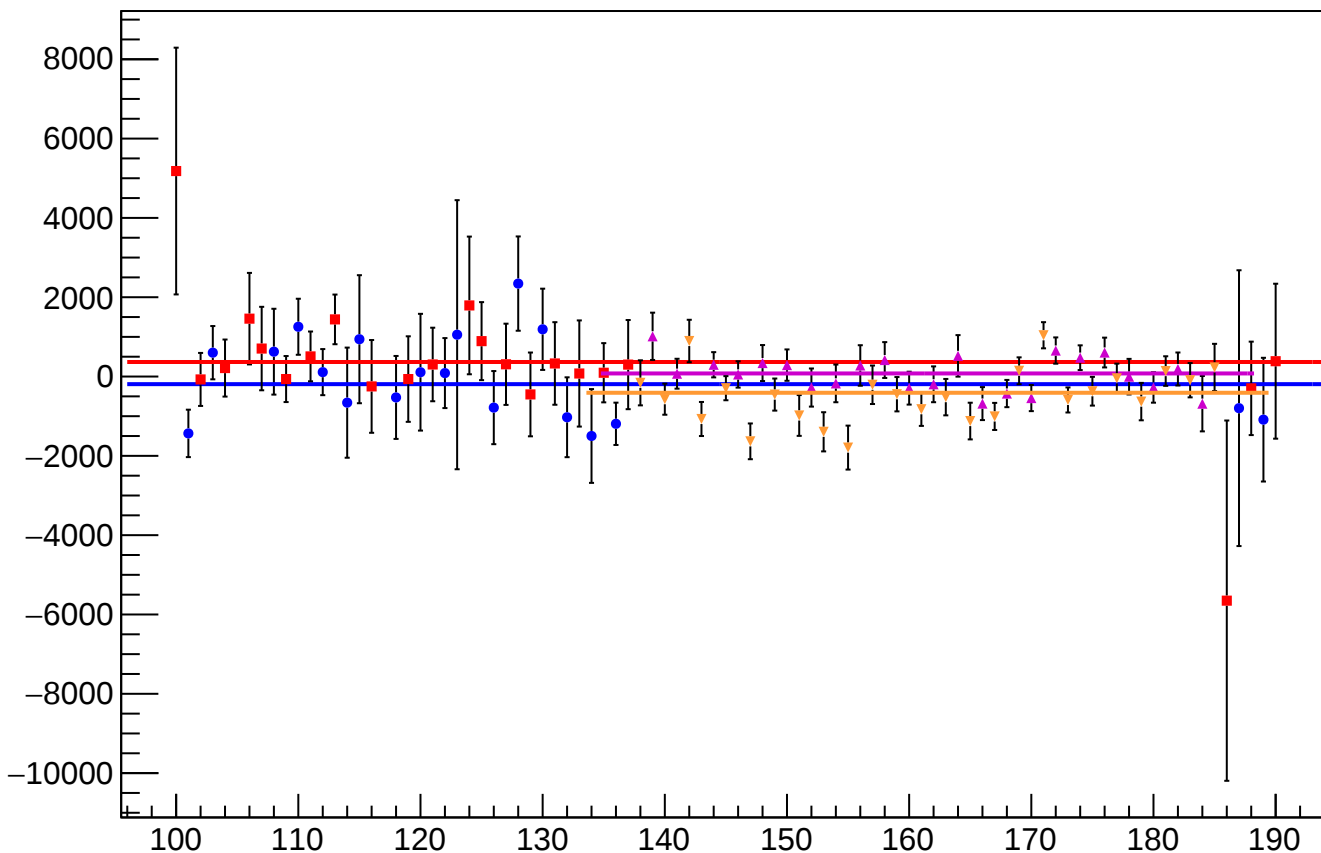
Right: 52.067 $\pm$ 0.010 χ^2 /NDF: 2793428.2/40

In: 50.971 $\pm$ 0.007 χ^2 /NDF: 1380127.1/41

Out: 50.790 $\pm$ 0.007 χ^2 /NDF: 2372061.3/46

All: 50.877 $\pm$ 0.005 χ^2 /NDF: 3752502.2/88

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -191.928 ± 208.400 $\chi^2/\text{NDF}: 24.3/18$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 366.744 ± 199.798 $\chi^2/\text{NDF}: 11.7/21$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

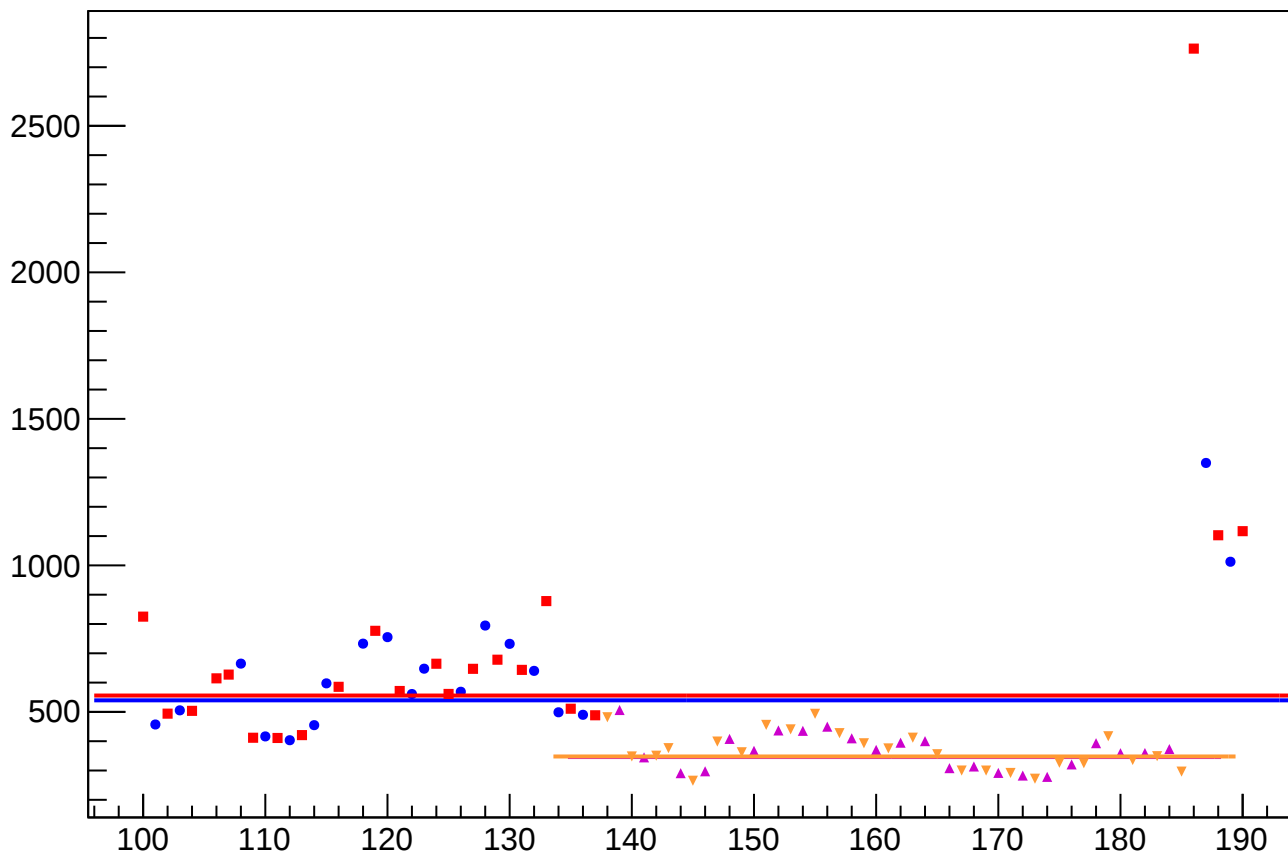
Right: 99.176 ± 144.224 $\chi^2/\text{NDF}: 39.7/40$

In: 40.109 ± 77.967 $\chi^2/\text{NDF}: 50.6/41$

Out: -296.497 ± 76.135 $\chi^2/\text{NDF}: 86.2/46$

All: -132.195 ± 54.472 $\chi^2/\text{NDF}: 146.4/88$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 539.472 $\pm$ 0.147 χ^2 /NDF: 861944.5/18

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 555.869 $\pm$ 0.141 χ^2 /NDF: 1728972.0/21

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

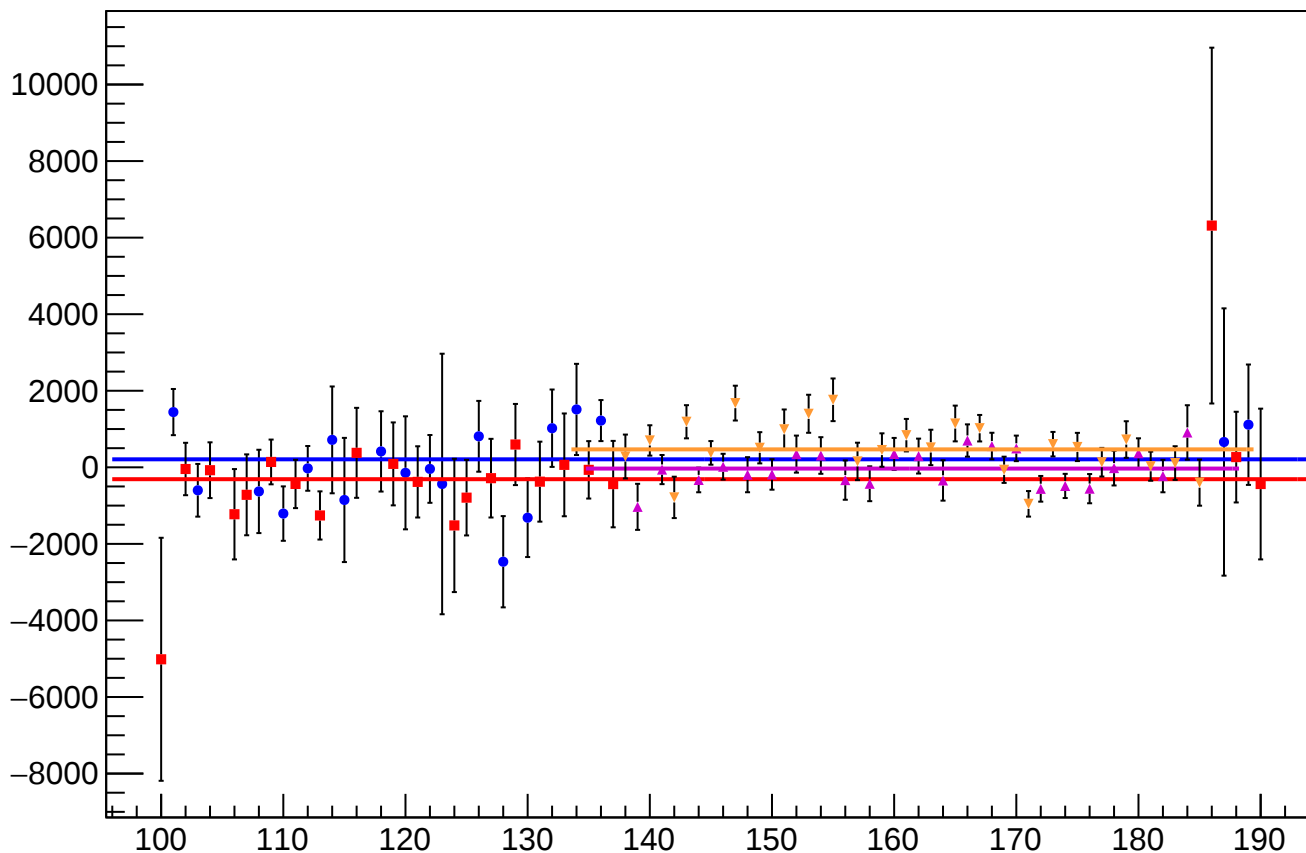
Right: 548.015 $\pm$ 0.102 χ^2 /NDF: 2597367.9/40

In: 373.040 $\pm$ 0.055 χ^2 /NDF:3245957.4/41

Out: 378.077 $\pm$ 0.054 χ^2 /NDF:4625772.4/46

All: 375.619 $\pm$ 0.039 χ^2 /NDF: 7876002.8/88

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 209.088+/-209.870 χ^2/NDF : 24.5/18

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -310.111+/-201.336 χ^2/NDF : 10.5/21

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

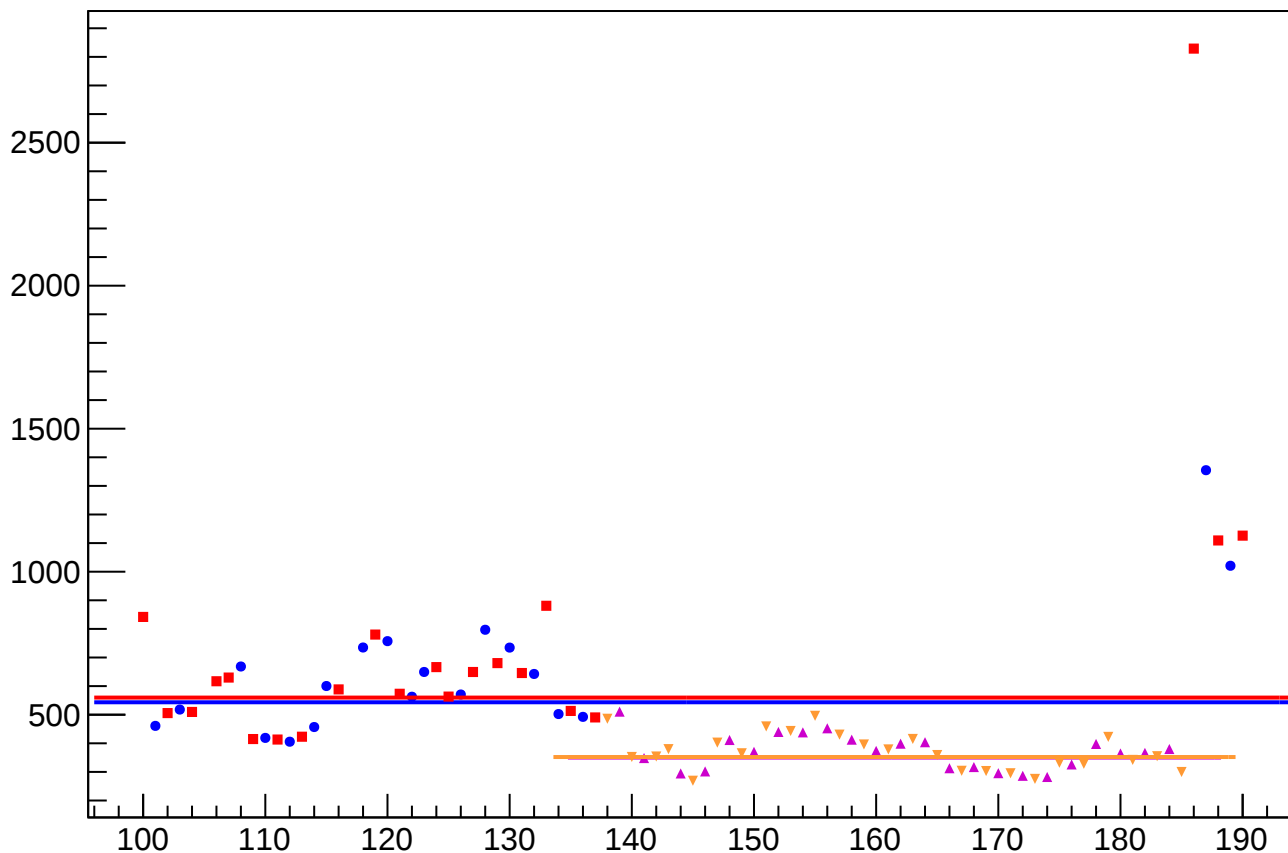
Right: -61.282+/-145.289 χ^2/NDF : 38.2/40

In: 1.330+/-78.834 χ^2/NDF : 51.3/41

Out: 355.020+/-76.969 χ^2/NDF : 80.8/46

All: 182.410+/-55.073 χ^2/NDF : 142.4/88

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 543.451 $\pm$ 0.148 χ^2 /NDF: 854377.5/18

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF:1017195.6/24

Right Out: 559.877 $\pm$ 0.142 χ^2 /NDF: 1725076.0/21

Left In: 350.160 $\pm$ 0.060 χ^2 /NDF:878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2 /NDF: 1896060.8/47

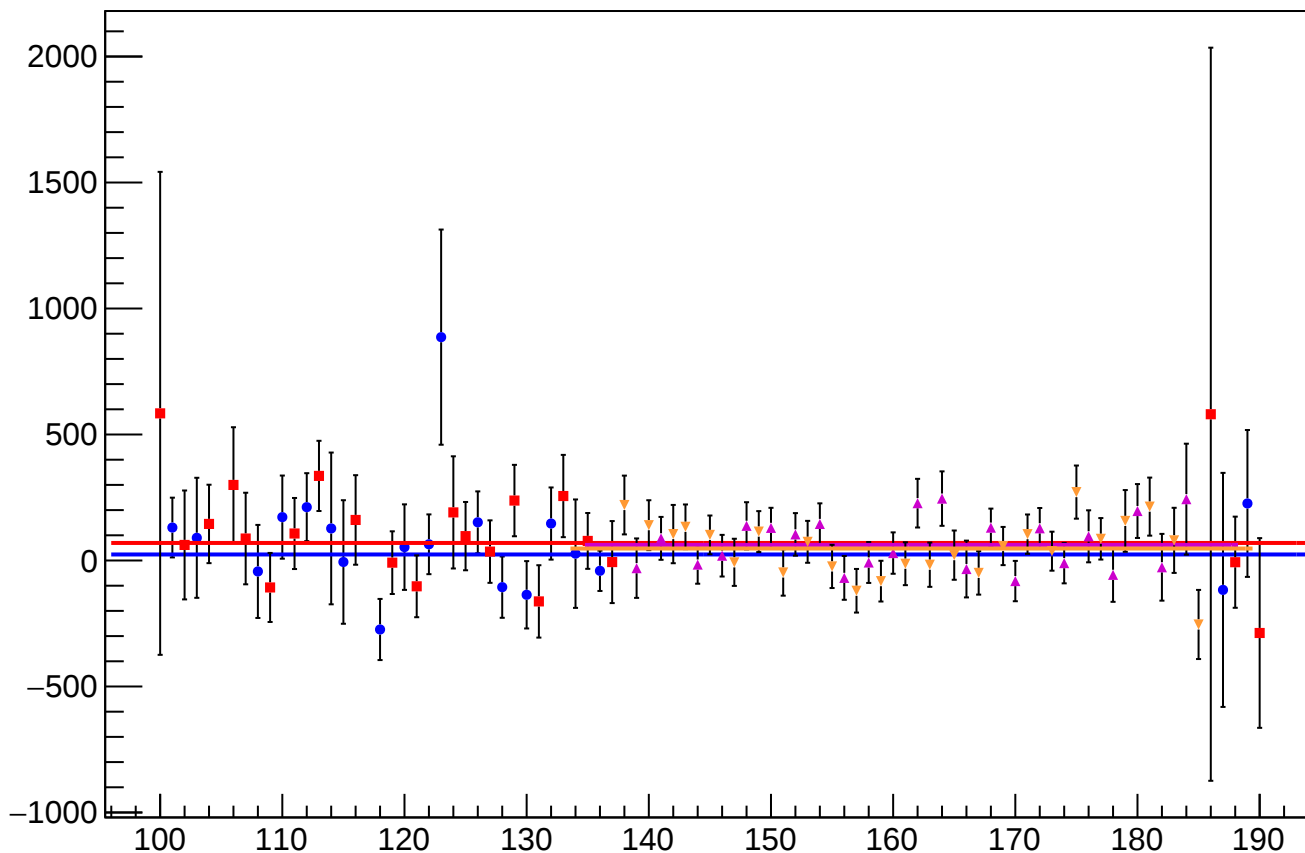
Right: 552.005 $\pm$ 0.103 χ^2 /NDF: 2585833.0/40

In: 377.434 $\pm$ 0.056 χ^2 /NDF:3189879.8/41

Out: 382.393 $\pm$ 0.054 χ^2 /NDF:4562482.7/46

All: 379.973 $\pm$ 0.039 χ^2 /NDF: 7756413.8/88

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 23.911 $\pm$ 34.302 χ^2 /NDF: 19.8/18

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 69.617 $\pm$ 34.024 χ^2 /NDF: 16.7/21

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

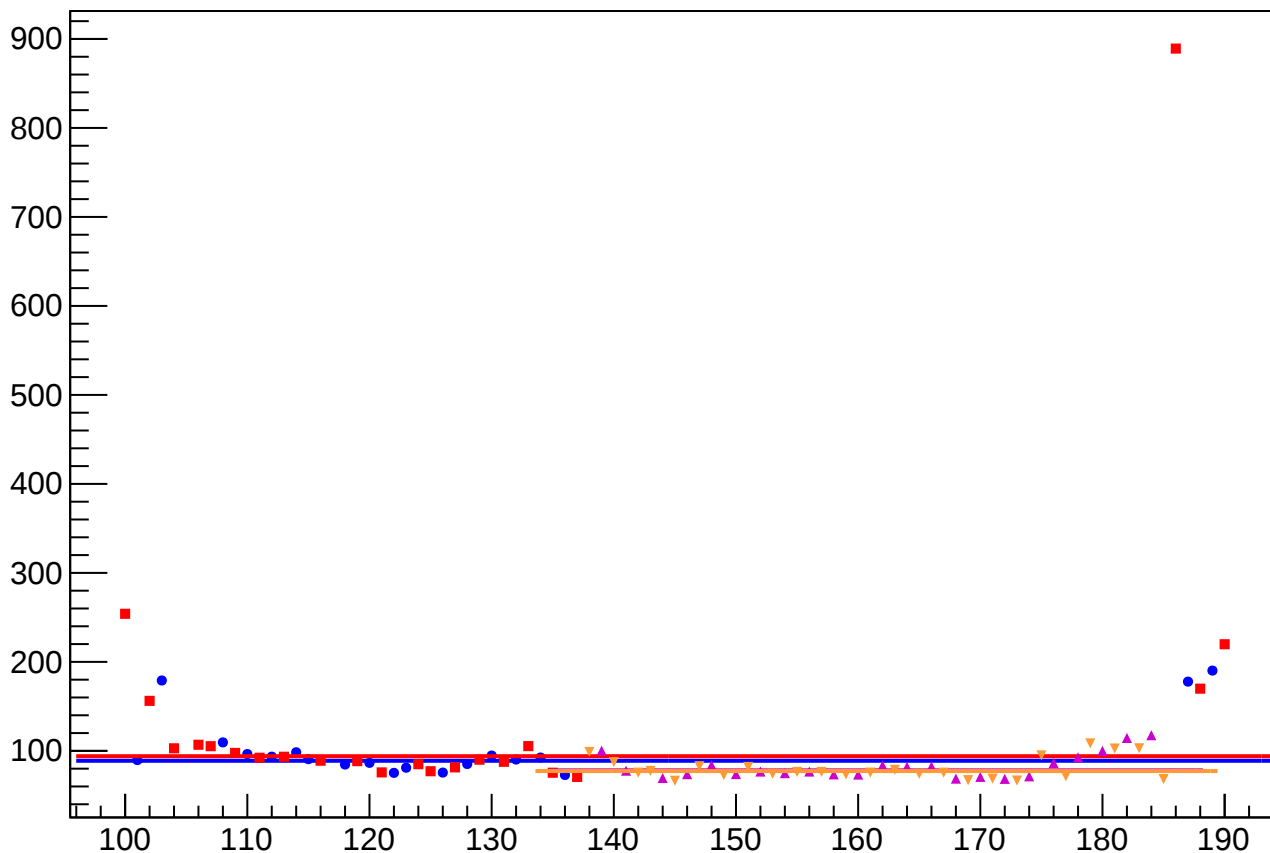
Right: 46.949 $\pm$ 24.156 χ^2 /NDF: 37.4/40

In: 52.957 $\pm$ 16.592 χ^2 /NDF:44.7/41

Out: 52.385 $\pm$ 16.084 χ^2 /NDF:46.4/46

All: 52.662 $\pm$ 11.549 χ^2 /NDF: 91.1/88

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 88.875 $\pm$ 0.024 χ^2 /NDF: 774946.5/18

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 94.014 $\pm$ 0.024 χ^2 /NDF: 1633387.0/21

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

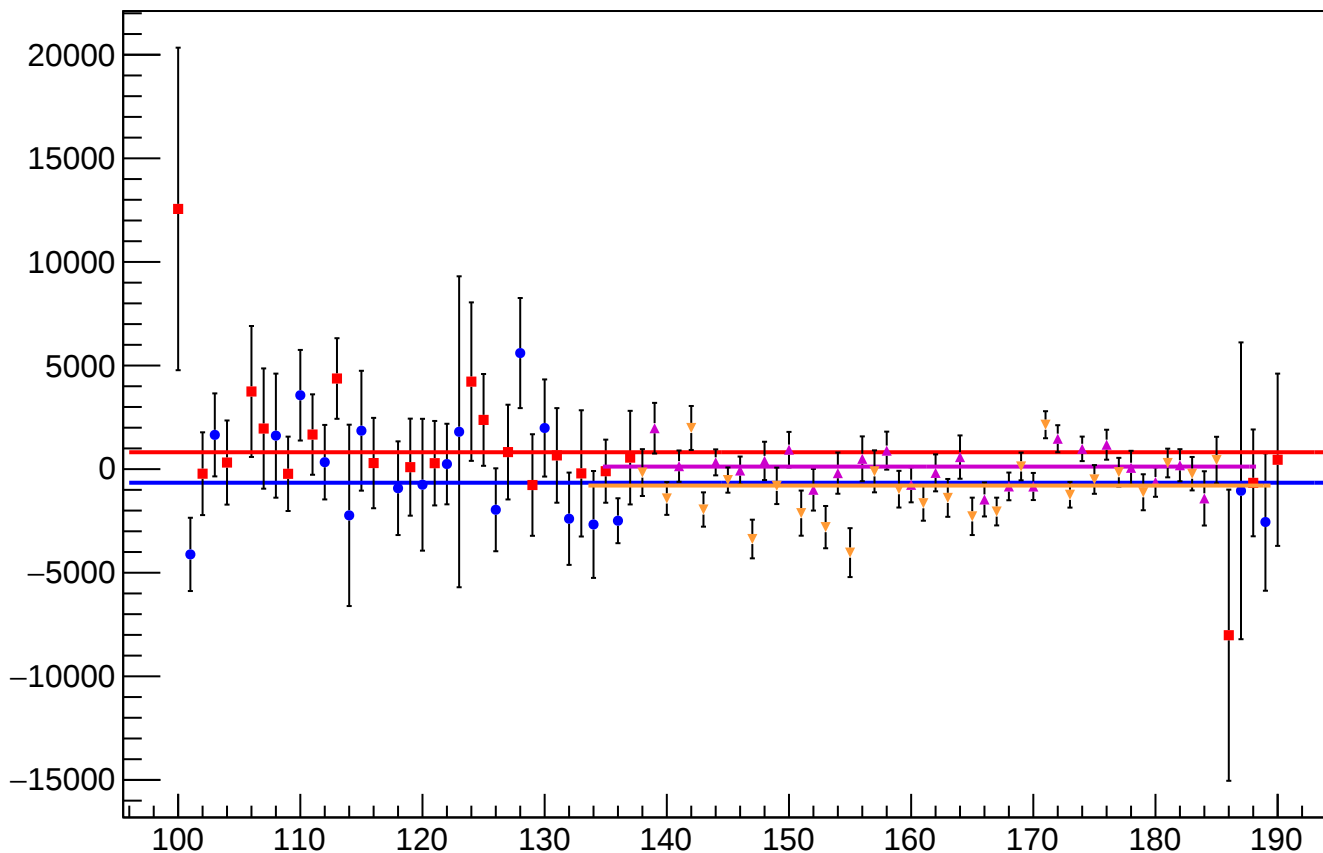
Right: 91.465 $\pm$ 0.017 χ^2 /NDF: 2430958.5/40

In: 80.651 $\pm$ 0.012 χ^2 /NDF: 1507145.9/41

Out: 81.048 $\pm$ 0.011 χ^2 /NDF: 2643045.5/46

All: 80.855 $\pm$ 0.008 χ^2 /NDF: 4150781.4/88

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -656.024 $\pm$ 510.704 χ^2 /NDF: 22.6/18

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 815.561 $\pm$ 500.774 χ^2 /NDF: 11.8/21

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

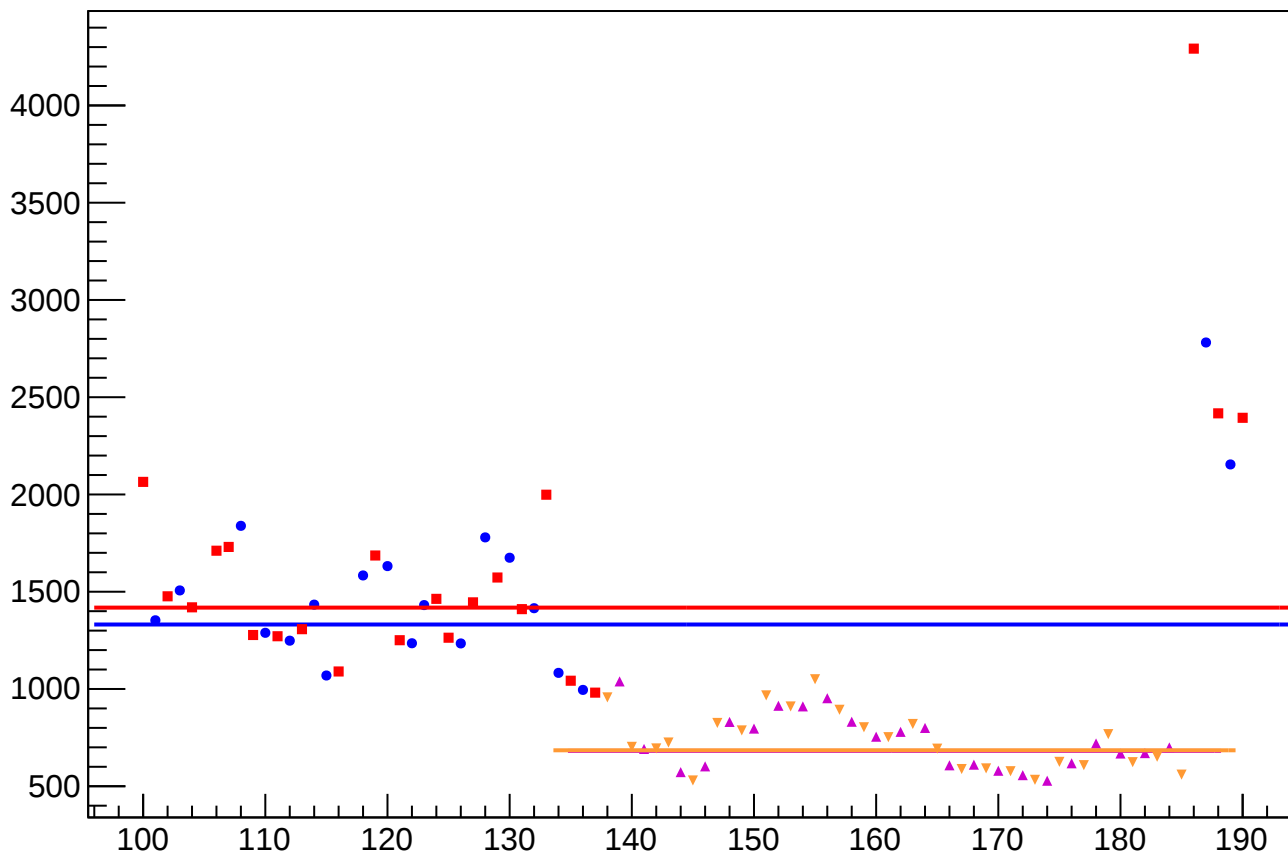
Right: 94.214 $\pm$ 357.560 χ^2 /NDF: 38.7/40

In: 47.677 $\pm$ 158.036 χ^2 /NDF:50.7/41

Out: -639.283 $\pm$ 154.703 χ^2 /NDF:87.8/46

All: -303.125 $\pm$ 110.551 χ^2 /NDF: 148.1/88

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1331.489 $\pm$ 0.361 χ^2 /NDF: 666801.6/18

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1418.317 $\pm$ 0.354 χ^2 /NDF: 1203832.4/21

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

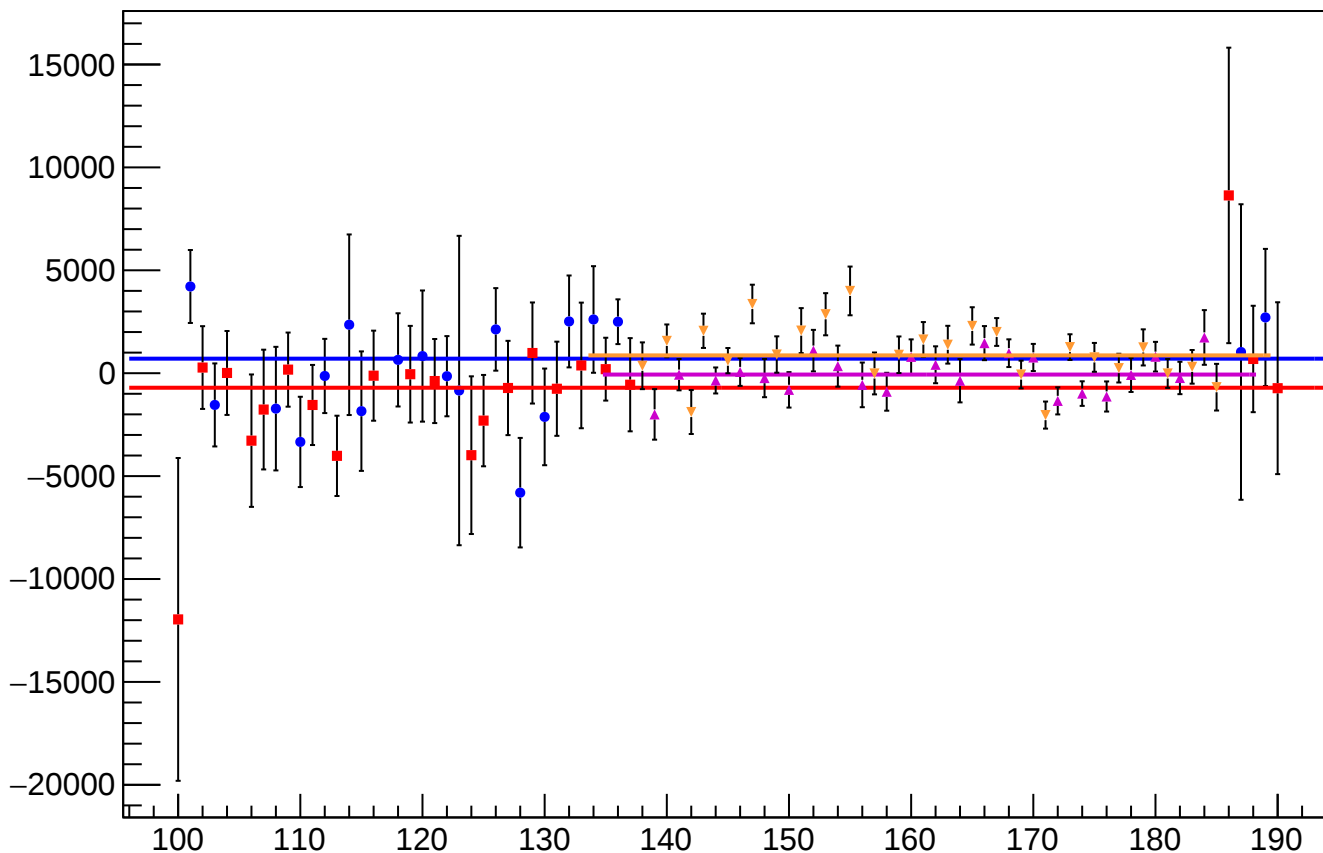
Right: 1375.756 $\pm$ 0.253 χ^2 /NDF: 1900107.1/40

In: 743.933 $\pm$ 0.112 χ^2 /NDF: 4713988.3/41

Out: 754.790 $\pm$ 0.109 χ^2 /NDF: 6365698.7/46

All: 749.477 $\pm$ 0.078 χ^2 /NDF: 11084507.0/88

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 706.250 $\pm$ 512.173 χ^2 /NDF: 22.8/18

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -706.104 $\pm$ 502.478 χ^2 /NDF: 10.9/21

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

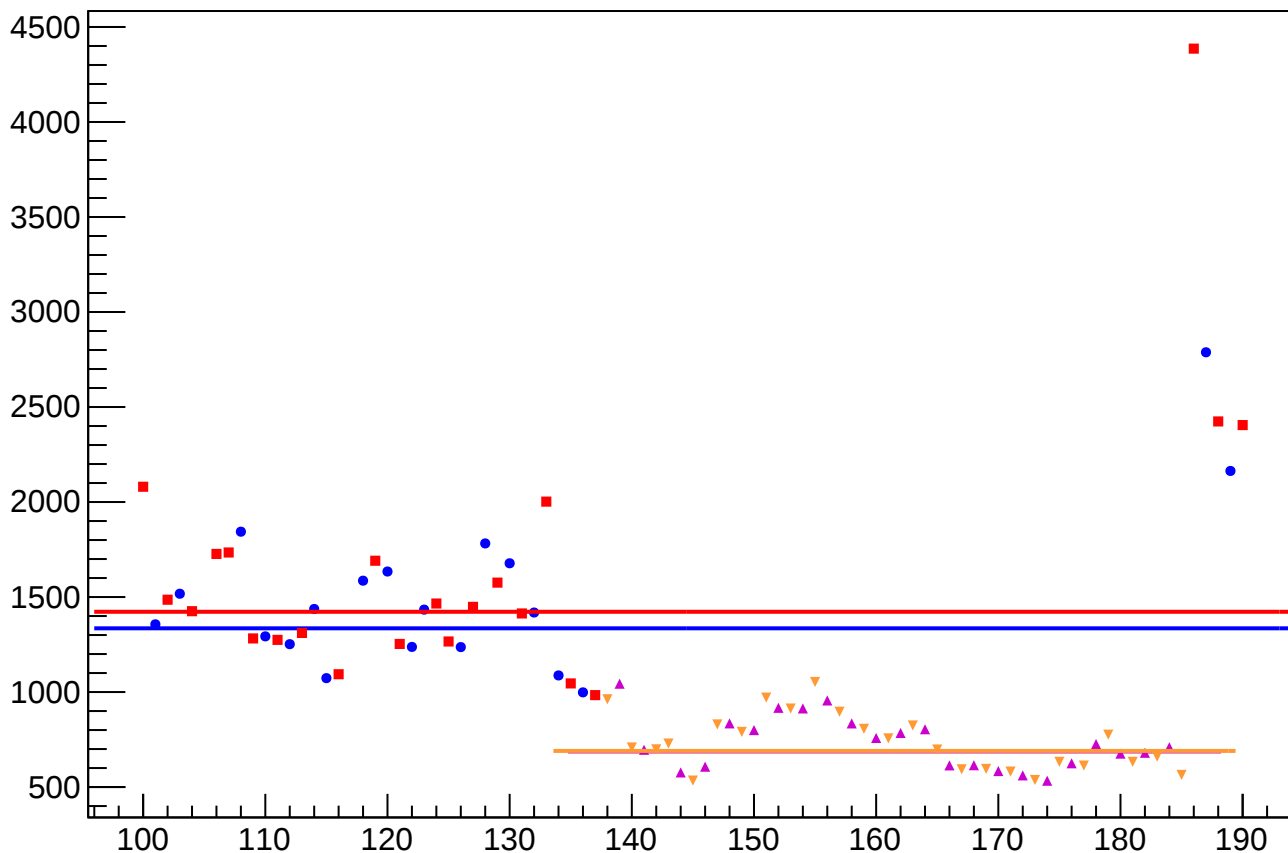
Right: -13.421 $\pm$ 358.684 χ^2 /NDF: 37.5/40

In: 8.671 $\pm$ 159.189 χ^2 /NDF:51.3/41

Out: 714.480 $\pm$ 155.808 χ^2 /NDF:82.5/46

All: 369.152 $\pm$ 111.349 χ^2 /NDF: 143.9/88

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1335.361 $\pm$ 0.362 χ^2 /NDF: 666406.7/18

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1422.391 $\pm$ 0.355 χ^2 /NDF: 1211640.6/21

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

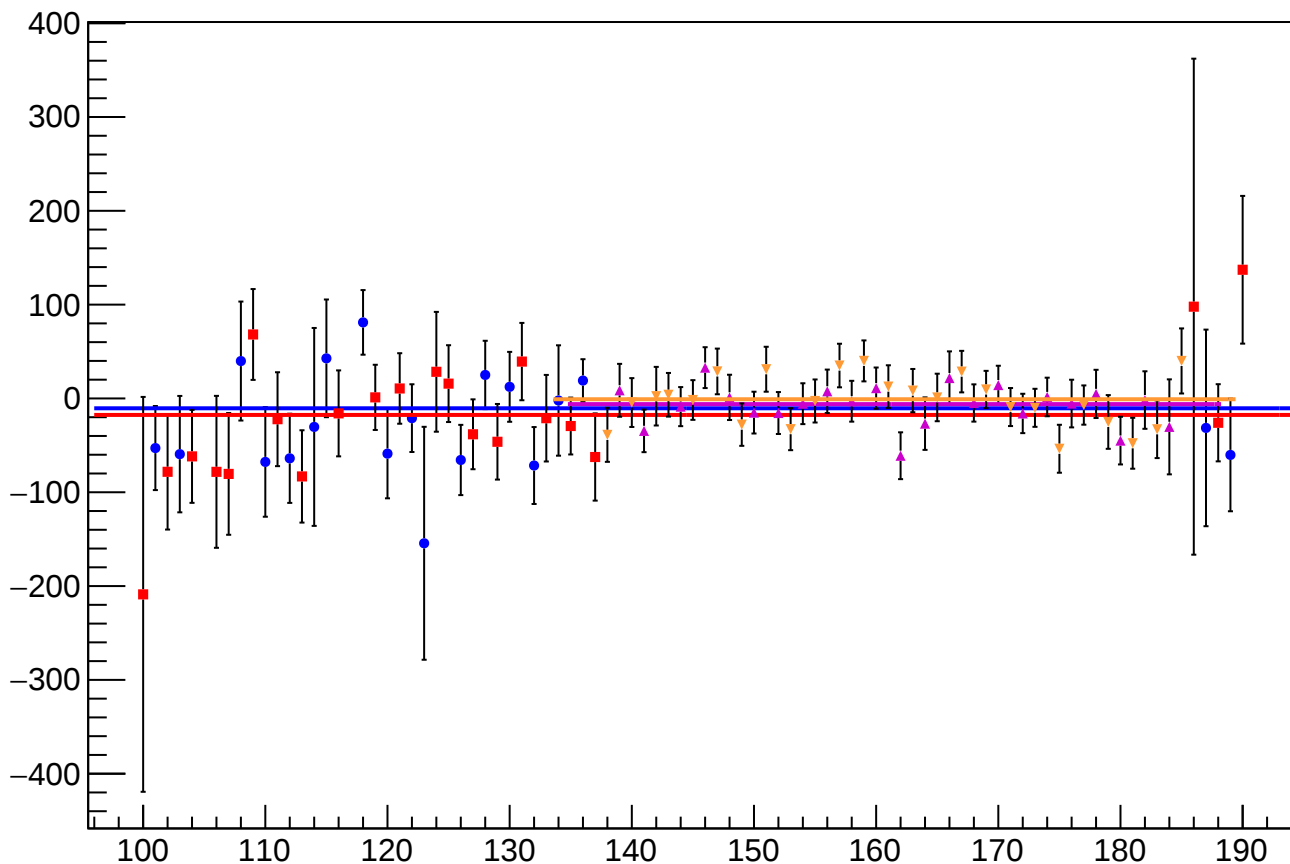
Right: 1379.708 $\pm$ 0.254 χ^2 /NDF: 1907473.1/40

In: 749.830 $\pm$ 0.113 χ^2 /NDF: 4659578.3/41

Out: 760.569 $\pm$ 0.110 χ^2 /NDF: 6308475.4/46

All: 755.314 $\pm$ 0.079 χ^2 /NDF: 10972702.5/88

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -10.494 ± 10.220 $\chi^2/\text{NDF}: 22.8/18$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: -17.574 ± 10.056 $\chi^2/\text{NDF}: 18.9/21$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

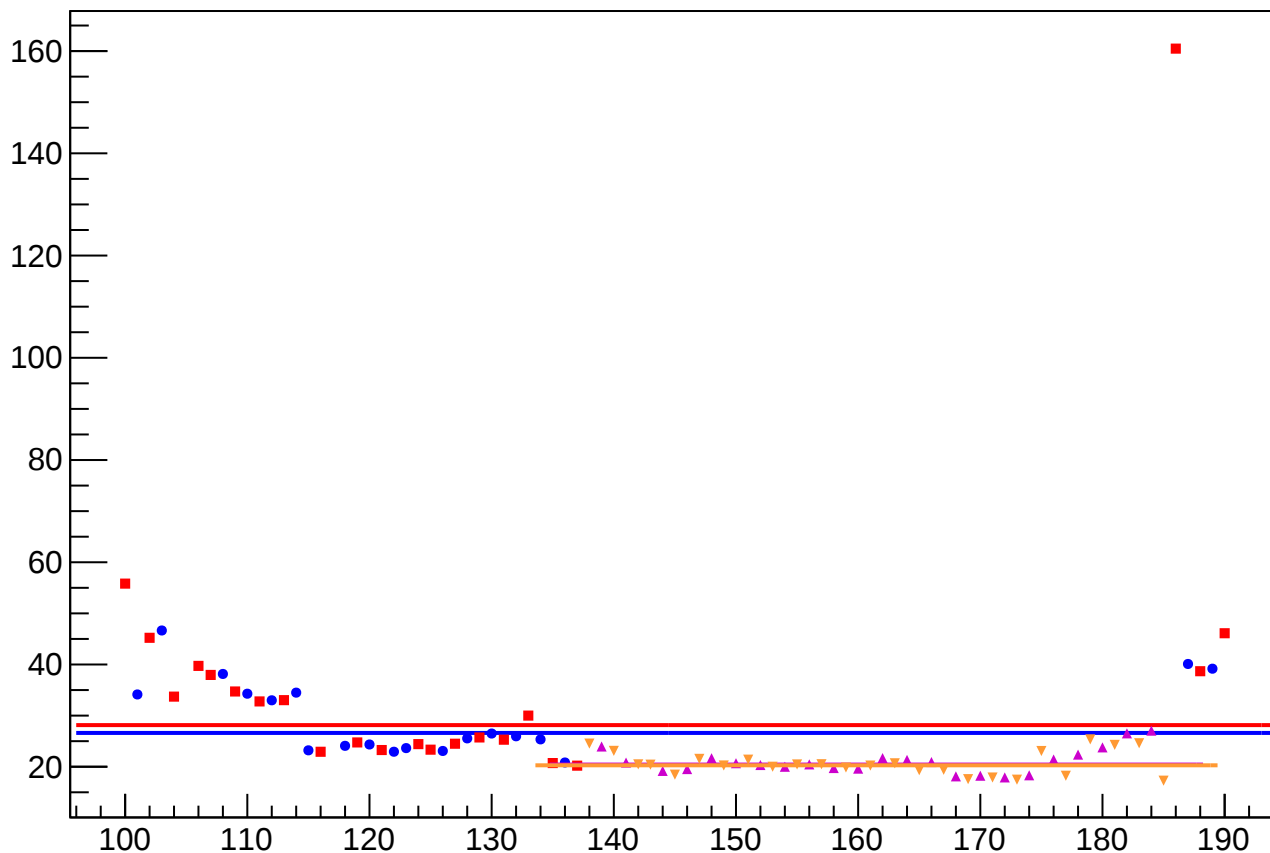
Right: -14.091 ± 7.168 $\chi^2/\text{NDF}: 42.0/40$

In: -6.881 ± 4.437 $\chi^2/\text{NDF}: 39.9/41$

Out: -3.921 ± 4.302 $\chi^2/\text{NDF}: 49.1/46$

All: -5.355 ± 3.089 $\chi^2/\text{NDF}: 89.2/88$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.612 $\pm$ 0.007 χ^2 /NDF: 727094.9/18

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 28.143 $\pm$ 0.007 χ^2 /NDF: 1441412.8/21

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

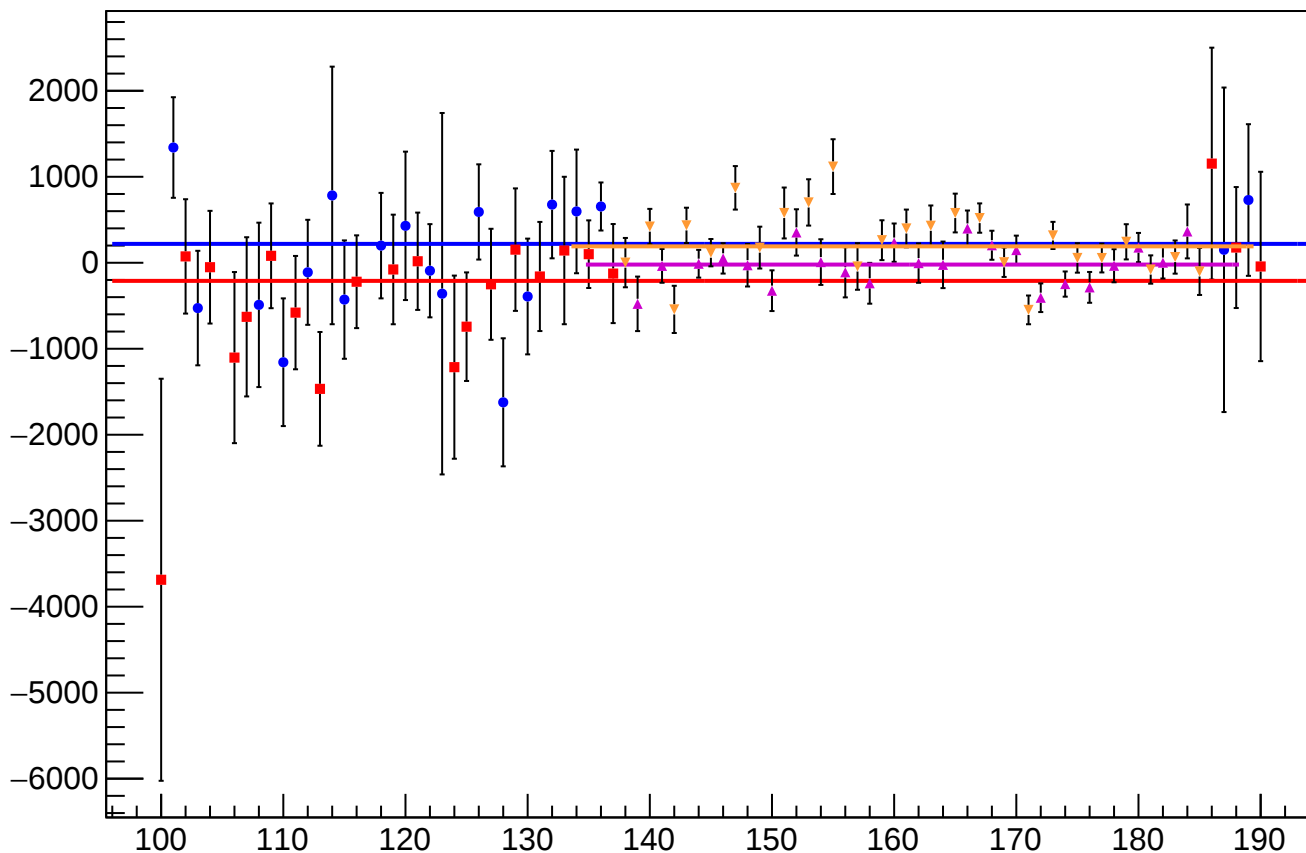
Right: 27.390 $\pm$ 0.005 χ^2 /NDF: 2191319.9/40

In: 21.590 $\pm$ 0.003 χ^2 /NDF: 1645554.6/41

Out: 21.719 $\pm$ 0.003 χ^2 /NDF: 2847681.1/46

All: 21.656 $\pm$ 0.002 χ^2 /NDF: 4494104.7/88

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 219.590 ± 145.710 χ^2/NDF : 21.7/18

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -210.622 ± 144.748 χ^2/NDF : 11.8/21

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

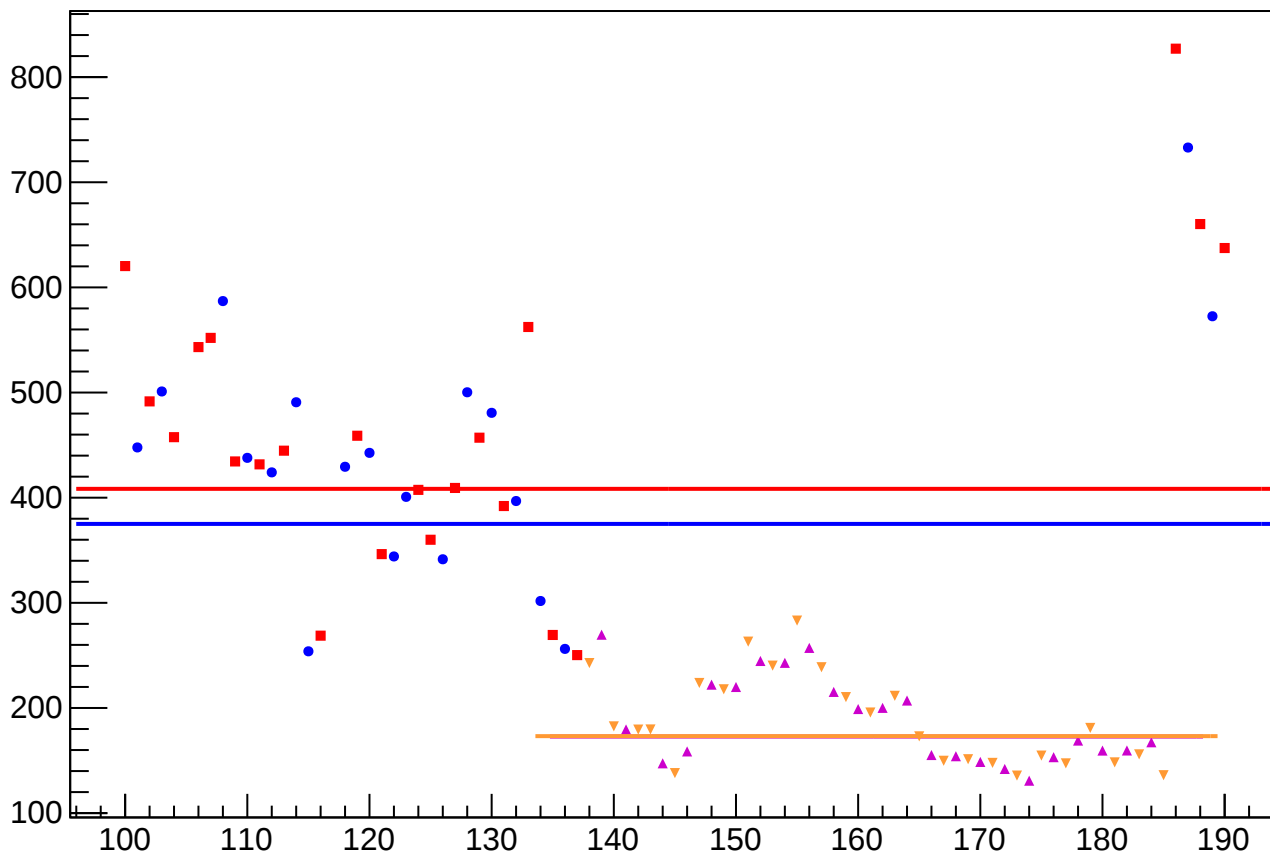
Right: 3.060 ± 102.691 χ^2/NDF : 37.9/40

In: -2.306 ± 40.615 χ^2/NDF : 51.9/41

Out: 160.624 ± 39.727 χ^2/NDF : 86.8/46

All: 80.958 ± 28.400 χ^2/NDF : 147.0/88

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 375.058+/-0.103 χ^2/NDF : 1007395.3/18

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 408.411+/-0.102 χ^2/NDF : 1349374.2/21

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

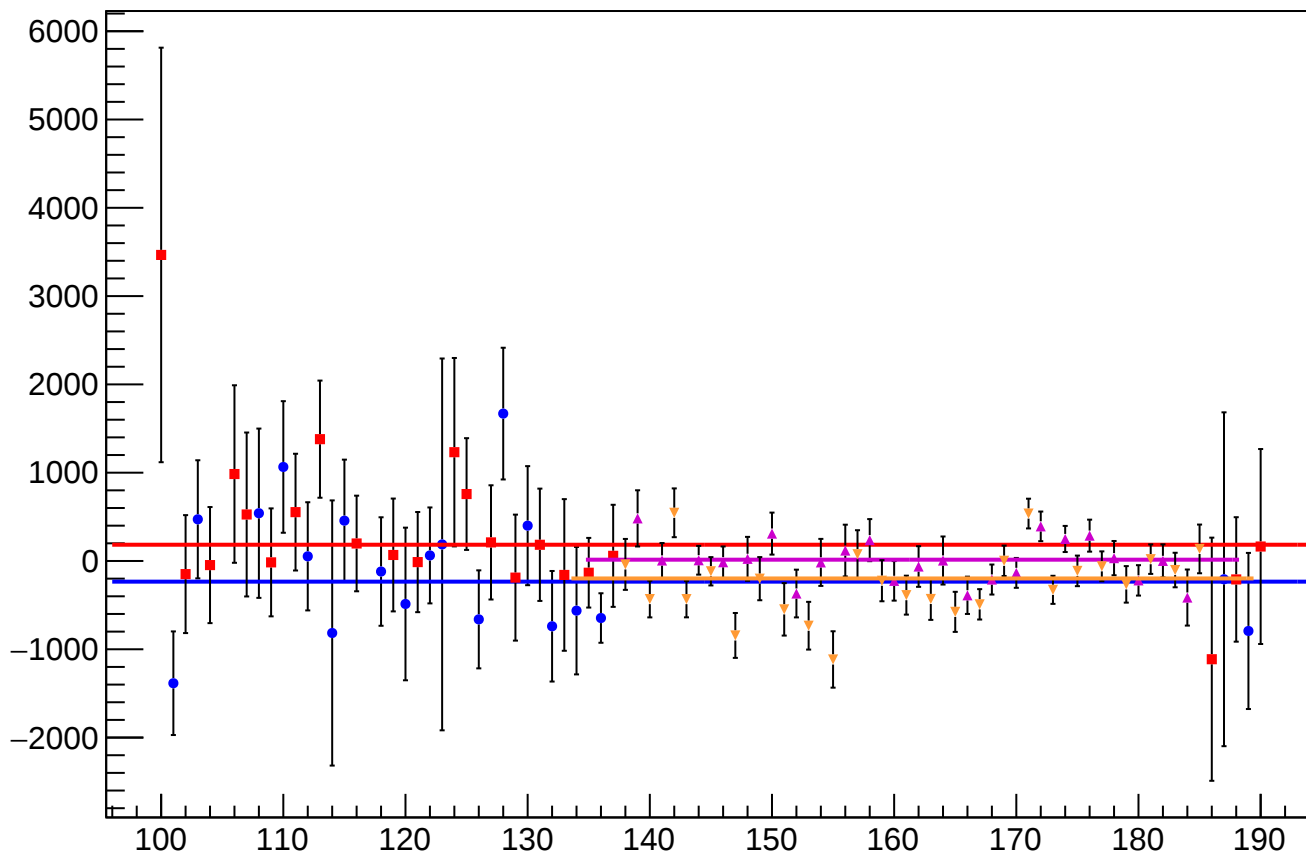
Right: 391.845+/-0.073 χ^2/NDF : 2409513.9/40

In: 188.540+/-0.029 χ^2/NDF :5932701.3/41

Out: 190.927+/-0.028 χ^2/NDF :7793441.4/46

All: 189.760+/-0.020 χ^2/NDF : 13729673.9/88

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -234.091 $\pm$ 146.133 χ^2 /NDF: 21.9/18

Left Out: -197.918 $\pm$ 41.638 χ^2 /NDF:64.3/24

Right Out: 184.071 $\pm$ 145.205 χ^2 /NDF: 11.0/21

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

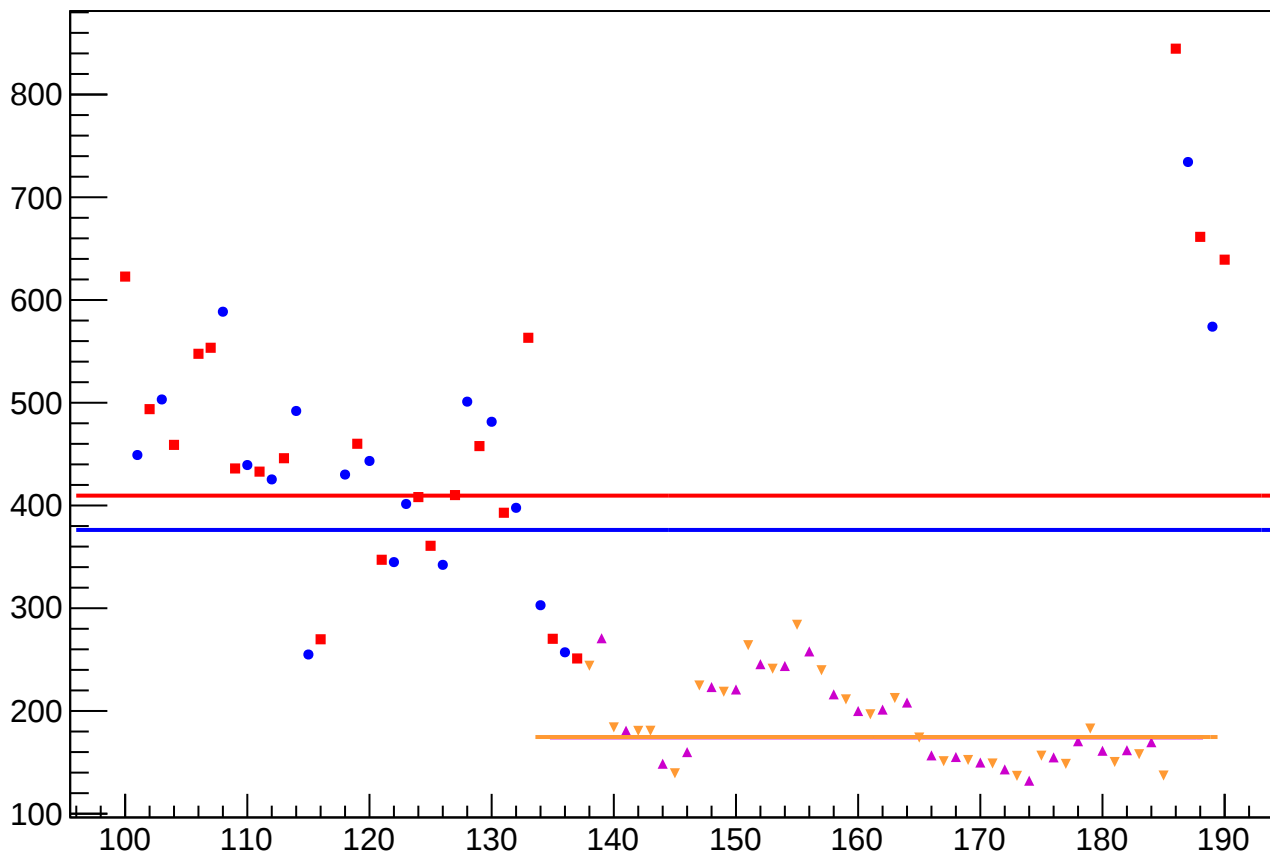
Right: -23.678 $\pm$ 103.002 χ^2 /NDF: 37.0/40

In: -4.889 $\pm$ 40.924 χ^2 /NDF:52.3/41

Out: -168.894 $\pm$ 40.025 χ^2 /NDF:81.7/46

All: -88.712 $\pm$ 28.614 χ^2 /NDF: 142.2/88

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 376.197 $\pm$ 0.103 χ^2/NDF : 1004421.3/18

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 409.598 $\pm$ 0.103 χ^2/NDF : 1355479.2/21

Left In: 174.288 $\pm$ 0.030 χ^2/NDF :1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2/NDF : 2876851.9/47

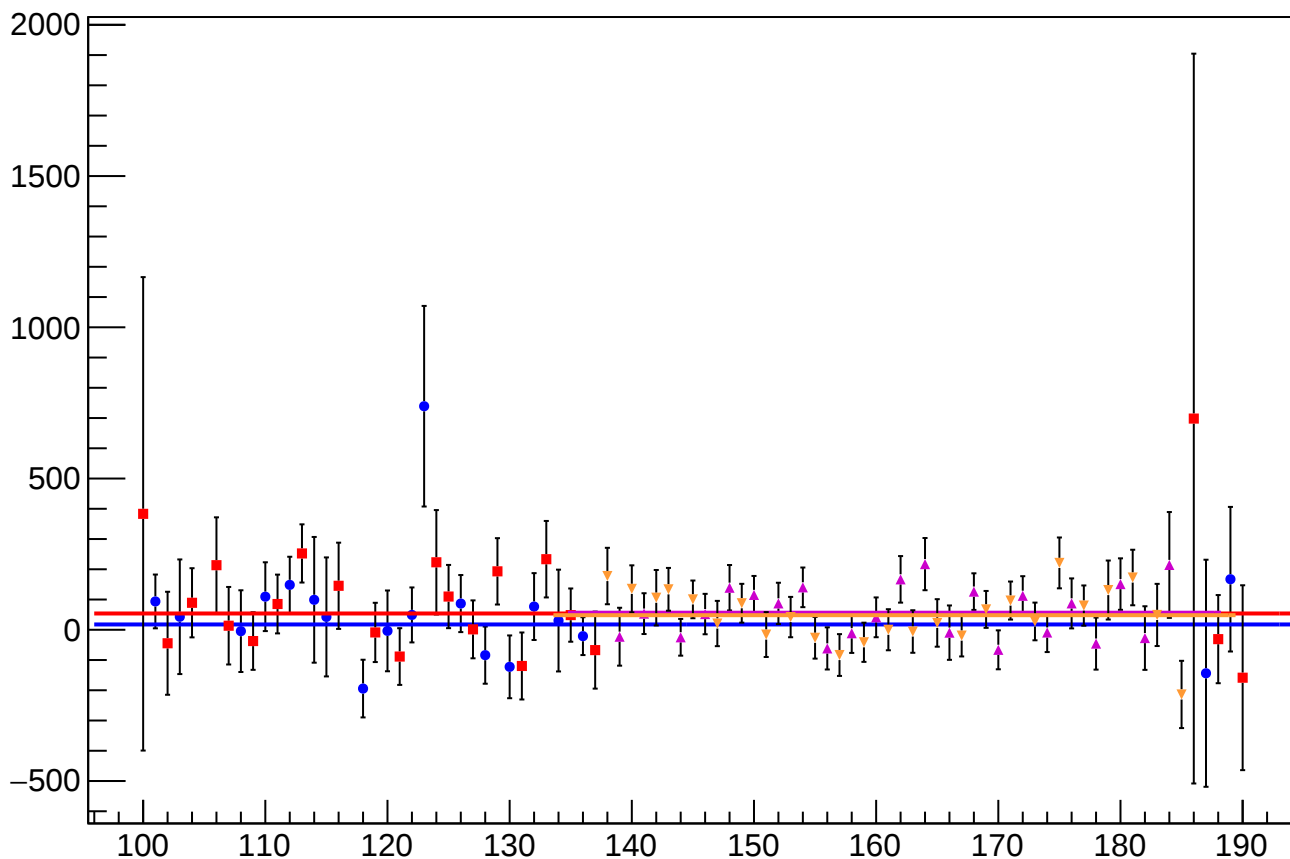
Right: 393.004 $\pm$ 0.073 χ^2/NDF : 2412473.5/40

In: 190.123 $\pm$ 0.029 χ^2/NDF :5867864.8/41

Out: 192.499 $\pm$ 0.028 χ^2/NDF :7725854.2/46

All: 191.338 $\pm$ 0.020 χ^2/NDF : 13597166.4/88

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 17.586 $\pm$ 26.154 χ^2 /NDF: 18.2/18

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 53.843 $\pm$ 25.686 χ^2 /NDF: 19.8/21

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

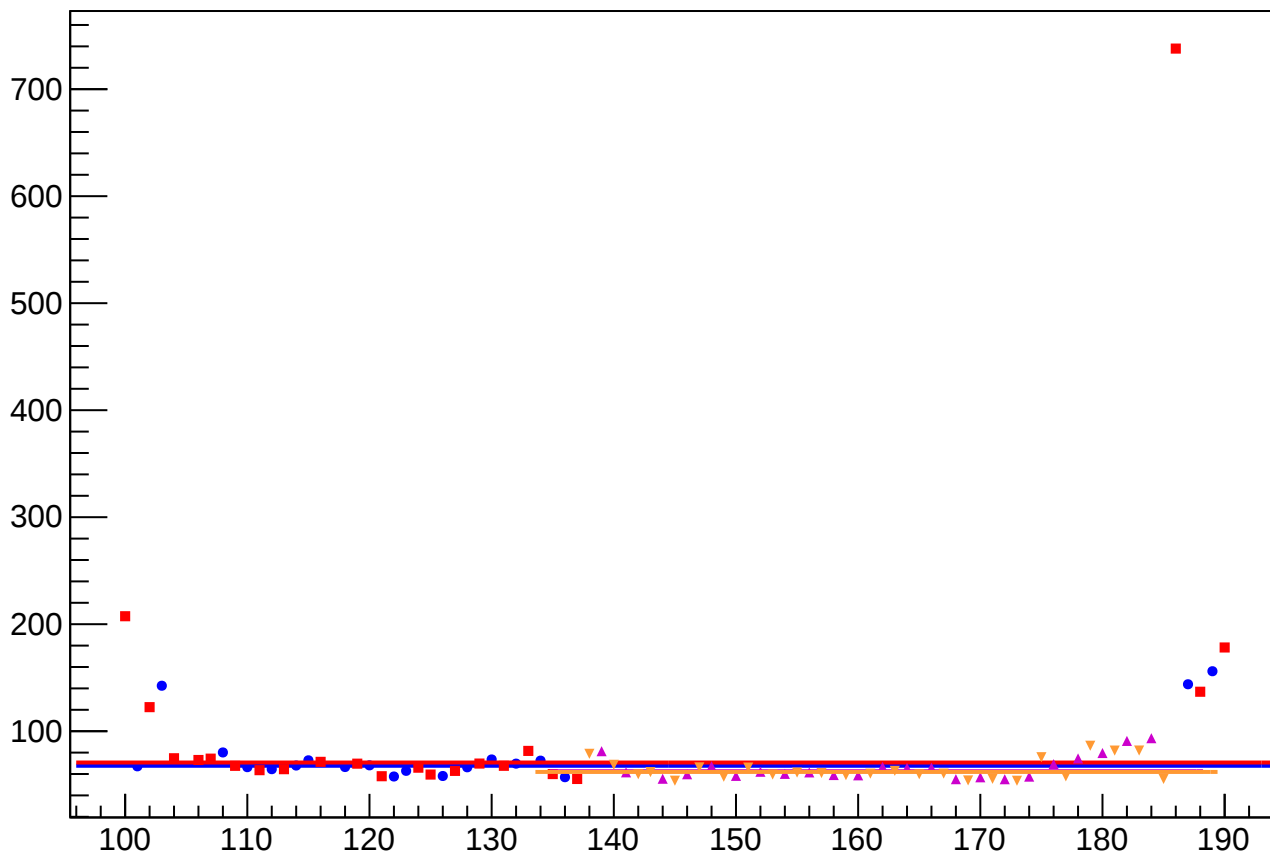
Right: 36.042 $\pm$ 18.326 χ^2 /NDF: 38.9/40

In: 46.620 $\pm$ 13.130 χ^2 /NDF:47.3/41

Out: 49.605 $\pm$ 12.703 χ^2 /NDF:49.1/46

All: 48.162 $\pm$ 9.130 χ^2 /NDF: 96.4/88

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 67.704+/-0.018 χ^2/NDF : 801270.5/18

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 70.735+/-0.018 χ^2/NDF : 1694177.5/21

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

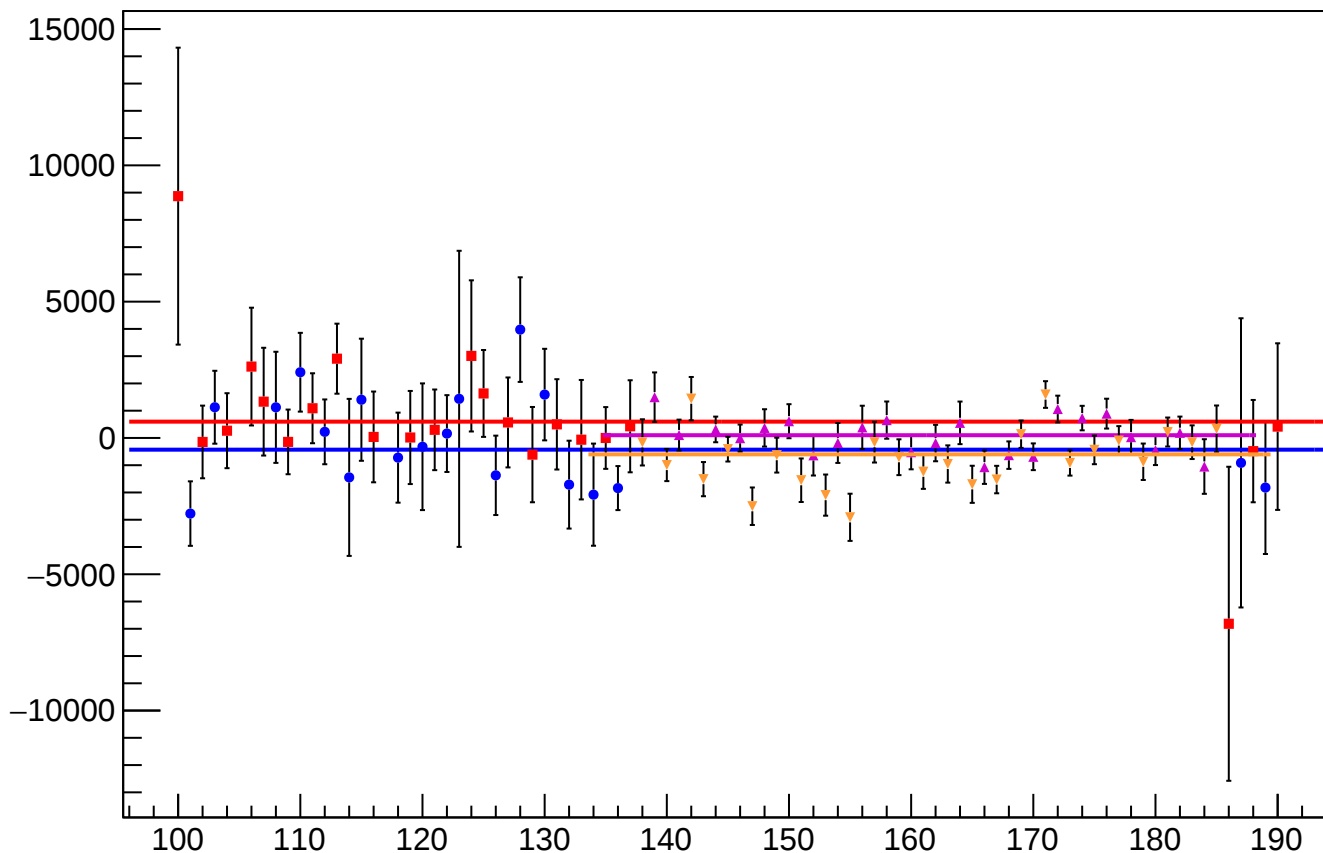
Right: 69.247+/-0.013 χ^2/NDF : 2509114.7/40

In: 63.892+/-0.009 χ^2/NDF : 1433609.7/41

Out: 64.096+/-0.009 χ^2/NDF : 2476028.4/46

All: 63.997+/-0.006 χ^2/NDF : 3909887.8/88

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -429.606+/-362.346 χ^2/NDF : 23.1/18

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 598.128+/-353.044 χ^2/NDF : 11.8/21

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

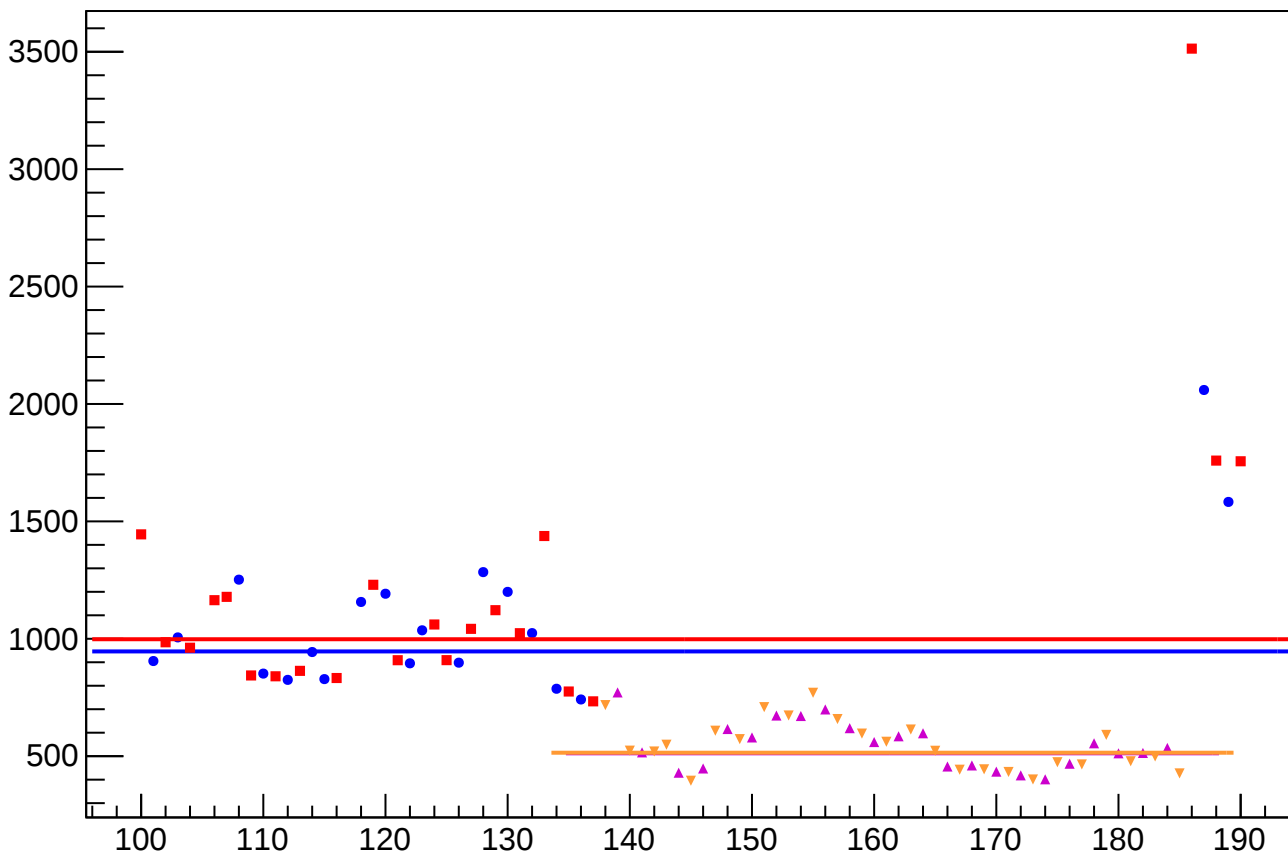
Right: 97.622+/-252.864 χ^2/NDF : 39.0/40

In: 44.387+/-117.934 χ^2/NDF : 50.5/41

Out: -473.292+/-115.409 χ^2/NDF : 87.5/46

All: -220.052+/-82.485 χ^2/NDF : 147.8/88

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 946.140 $\pm$ 0.256 χ^2 /NDF: 626268.6/18

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 998.050 $\pm$ 0.250 χ^2 /NDF: 1252701.6/21

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

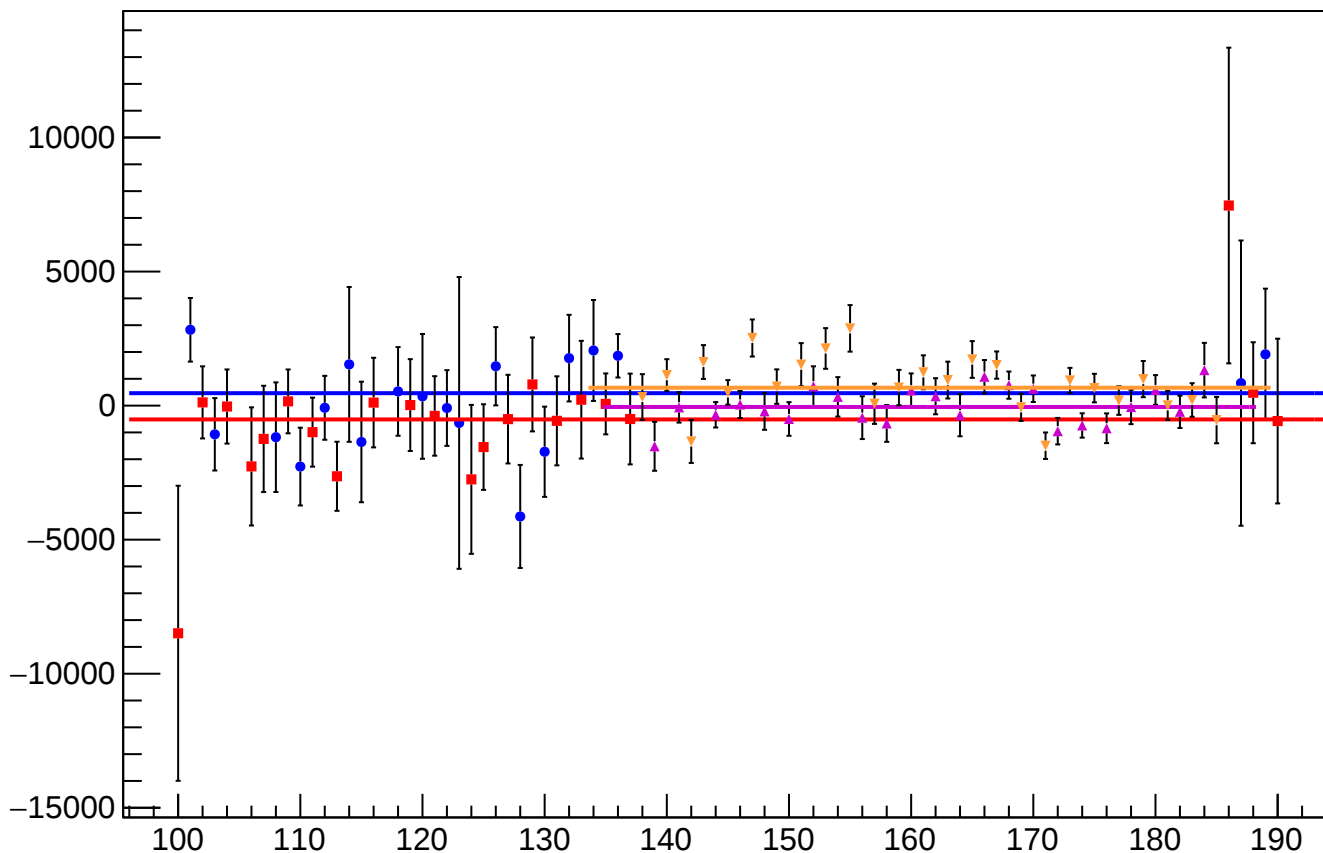
Right: 972.770 $\pm$ 0.179 χ^2 /NDF: 1900026.8/40

In: 558.168 $\pm$ 0.083 χ^2 /NDF:4232147.3/41

Out: 566.403 $\pm$ 0.082 χ^2 /NDF:5795063.7/46

All: 562.375 $\pm$ 0.058 χ^2 /NDF: 10032193.2/88

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 463.944+/-363.596 χ^2/NDF : 23.2/18

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -515.288+/-354.475 χ^2/NDF : 10.7/21

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

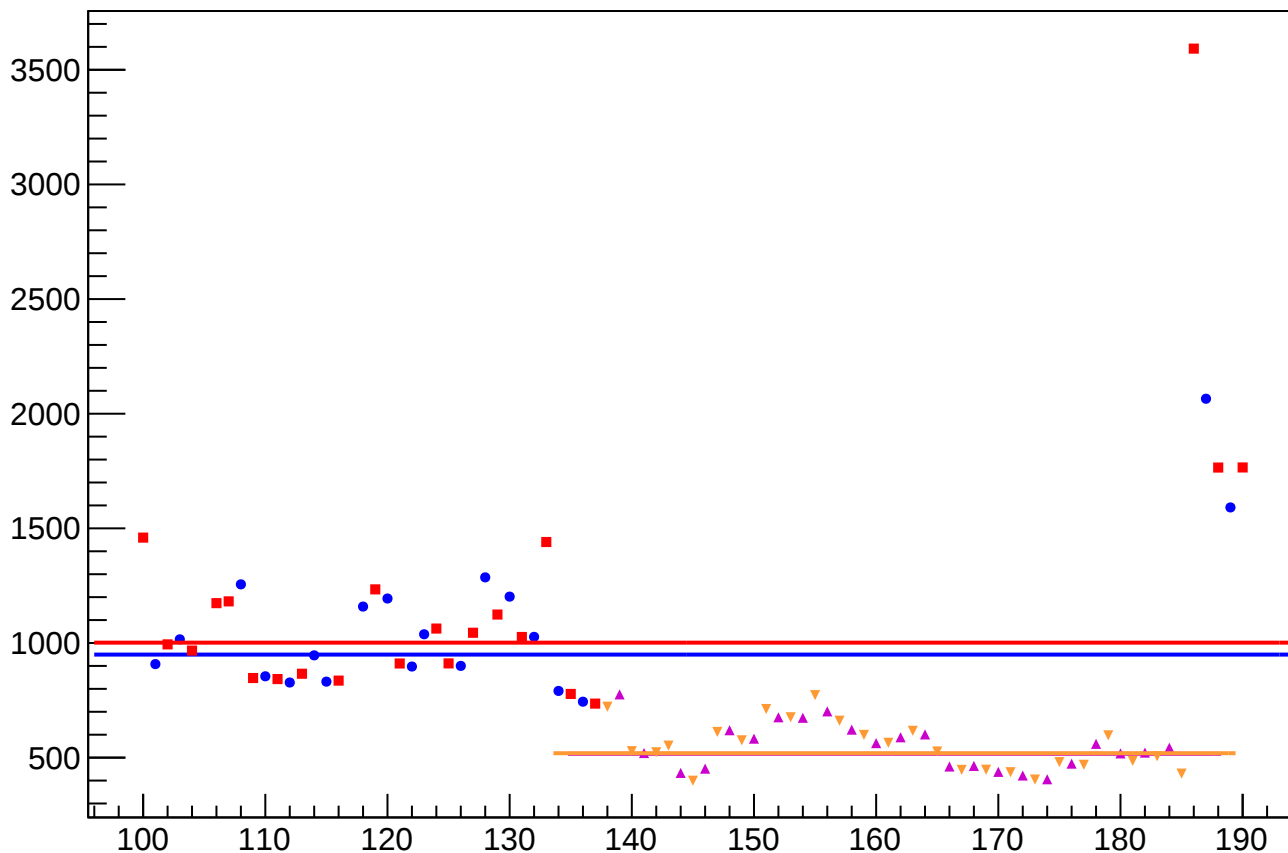
Right: -38.108+/-253.815 χ^2/NDF : 37.7/40

In: 4.879+/-118.889 χ^2/NDF : 51.1/41

Out: 540.235+/-116.326 χ^2/NDF : 82.2/46

All: 278.391+/-83.146 χ^2/NDF : 143.7/88

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 949.432 $\pm$ 0.257 χ^2 /NDF: 626017.8/18

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1001.486 $\pm$ 0.251 χ^2 /NDF: 1259656.3/21

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

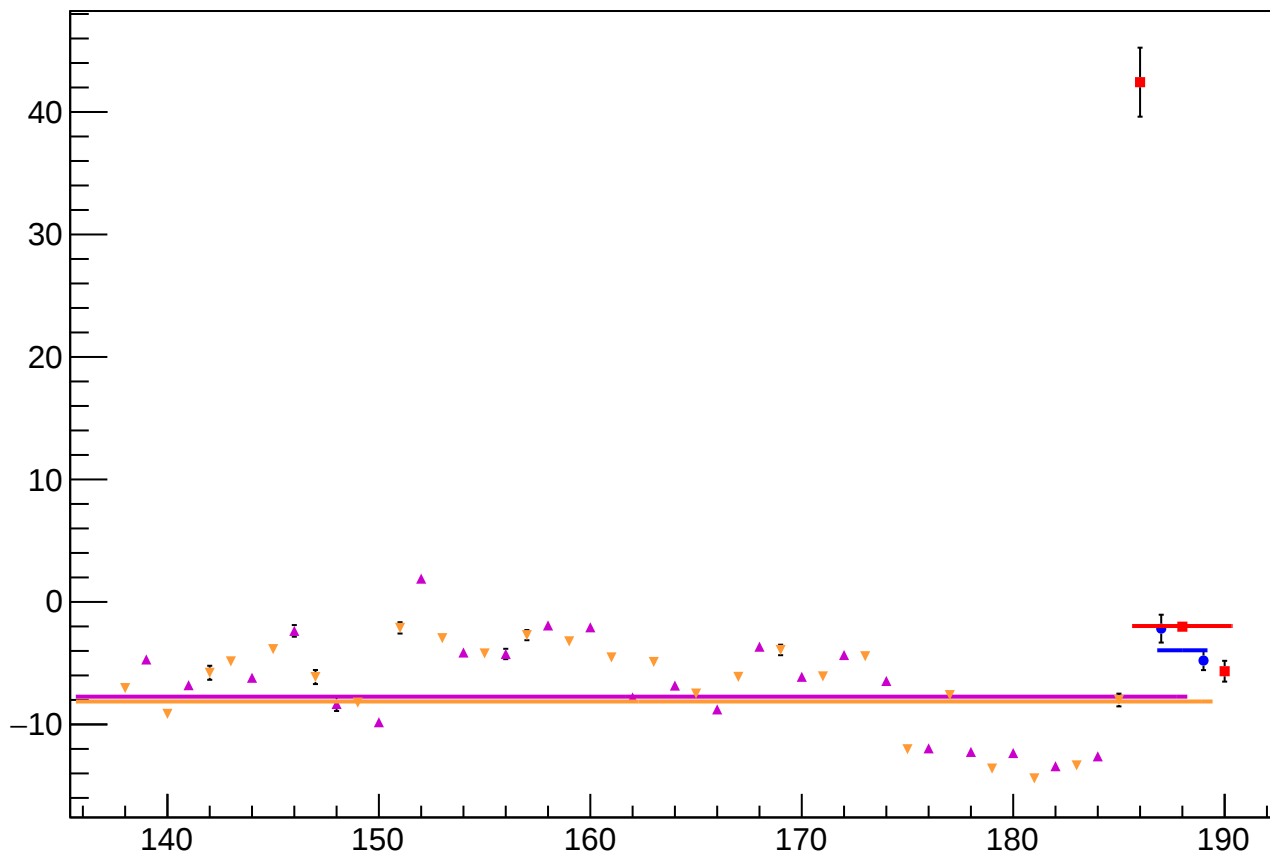
Right: 976.120 $\pm$ 0.179 χ^2 /NDF: 1906691.2/40

In: 563.049 $\pm$ 0.084 χ^2 /NDF:4176322.9/41

Out: 571.186 $\pm$ 0.082 χ^2 /NDF:5734904.6/46

All: 567.206 $\pm$ 0.059 χ^2 /NDF: 9916014.7/88

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.948 ± 0.644 χ^2/NDF : 3.6/1

Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24

Right Out: -1.966 ± 0.311 χ^2/NDF : 267.2/2

Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47

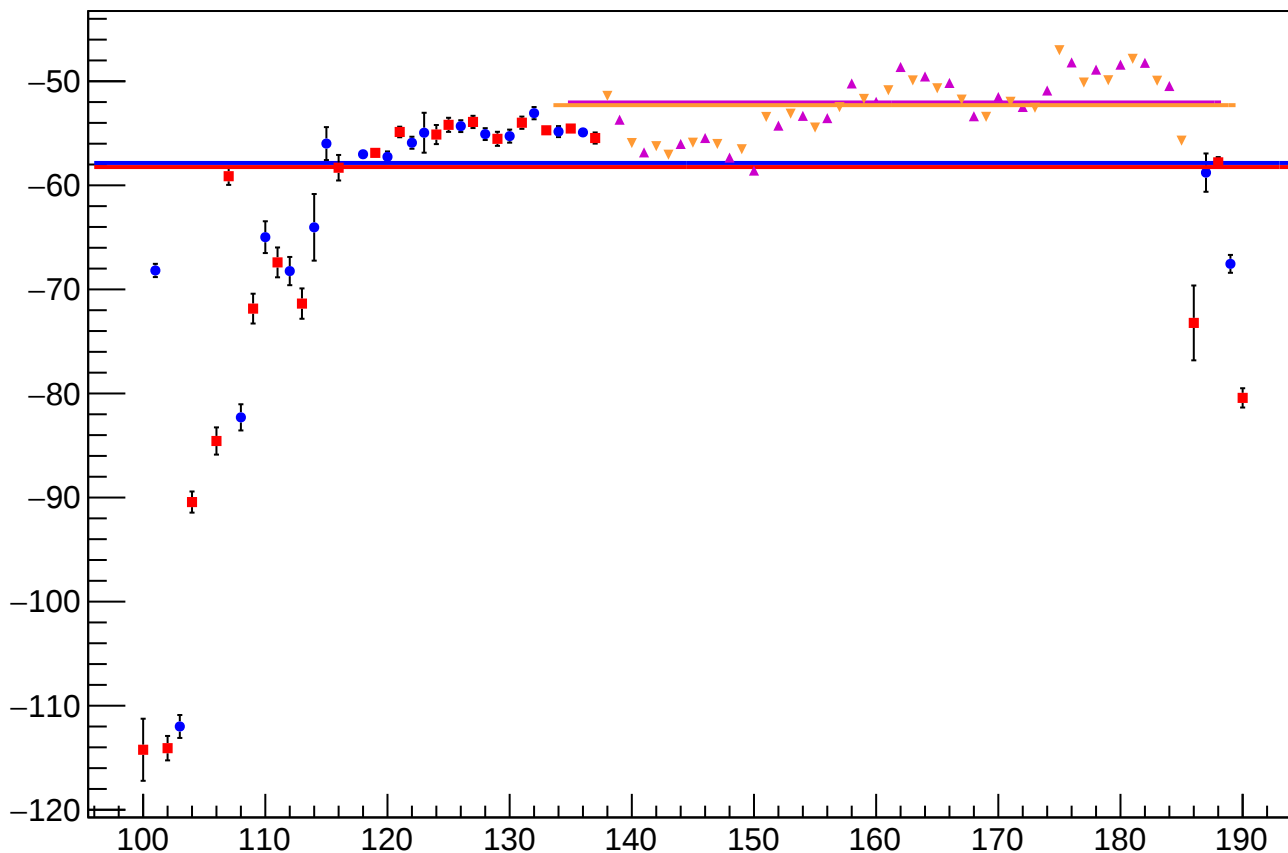
Right: -2.340 ± 0.280 χ^2/NDF : 278.5/4

In: -7.689 ± 0.068 χ^2/NDF : 3756.7/24

Out: -7.850 ± 0.066 χ^2/NDF : 4278.7/27

All: -7.773 ± 0.047 χ^2/NDF : 8038.2/52

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.849 ± 0.141 χ^2/NDF : 3589.6/18

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -58.245 ± 0.136 χ^2/NDF : 5304.9/21

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

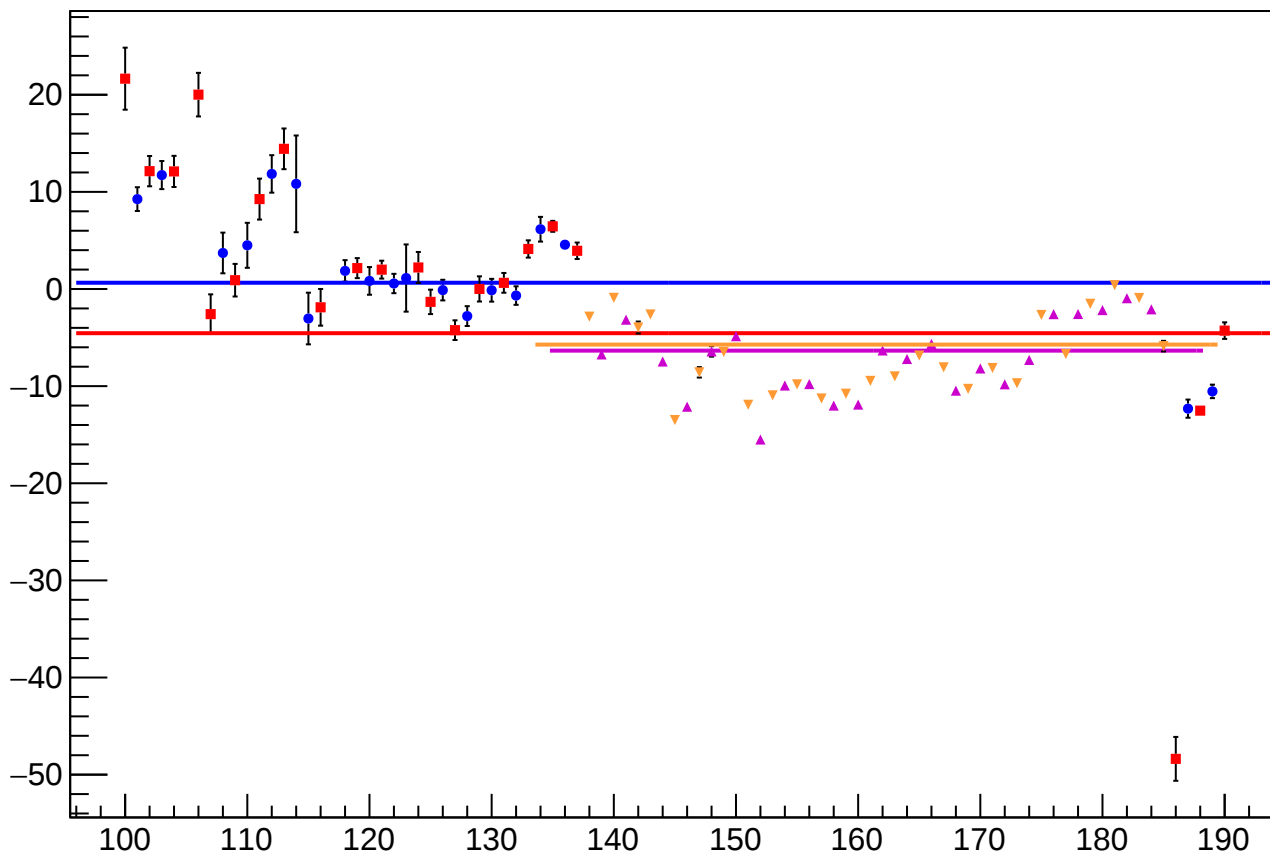
Right: -58.054 ± 0.098 χ^2/NDF : 8898.6/40

In: -52.860 ± 0.053 χ^2/NDF : 8232.0/41

Out: -53.133 ± 0.051 χ^2/NDF : 9603.2/46

All: -53.002 ± 0.037 χ^2/NDF : 17849.1/88

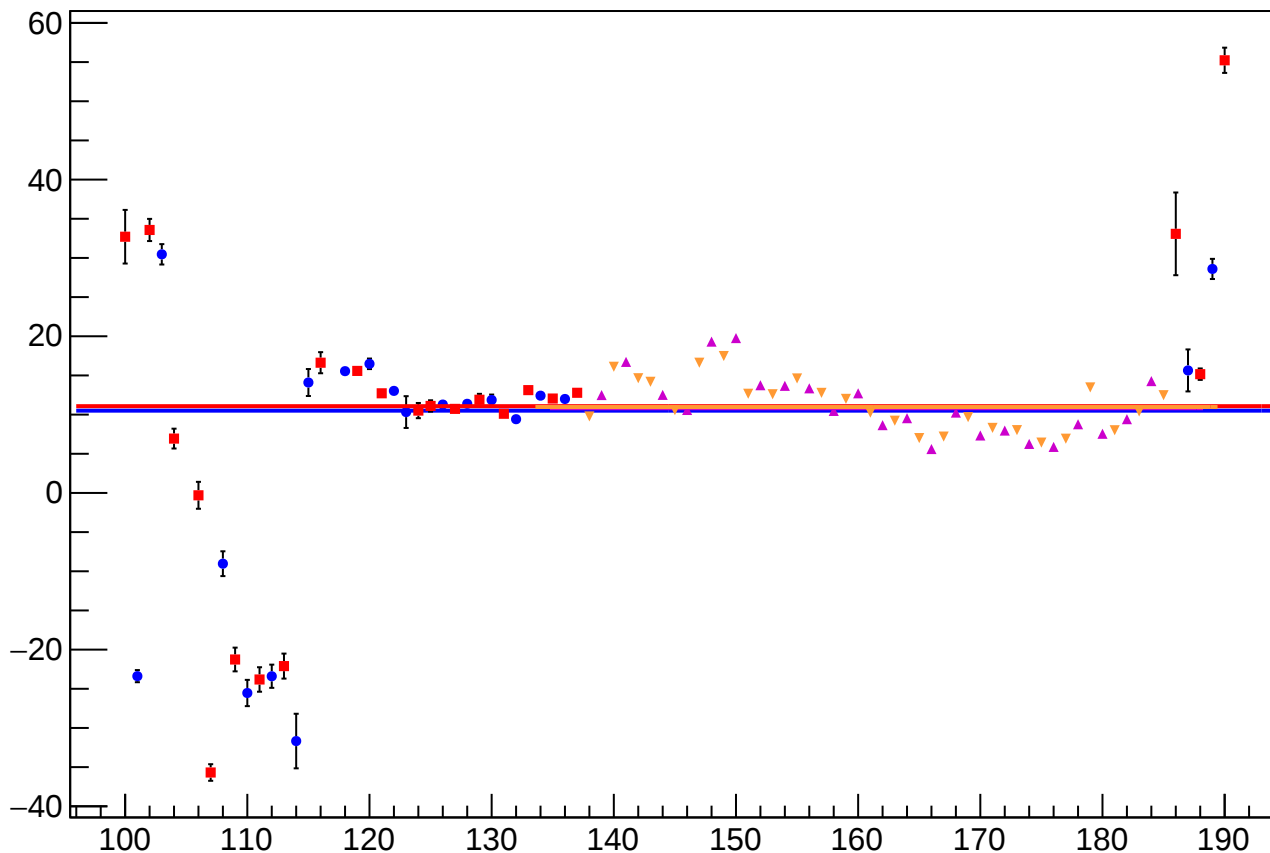
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.646 ± 0.235 $\chi^2/\text{NDF}: 733.2/18$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -4.549 ± 0.186 $\chi^2/\text{NDF}: 2514.6/21$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -2.552 ± 0.146 $\chi^2/\text{NDF}: 3548.3/40$
 In: -5.795 ± 0.066 $\chi^2/\text{NDF}: 4931.4/41$
 Out: -5.585 ± 0.063 $\chi^2/\text{NDF}: 6532.8/46$
 All: -5.686 ± 0.046 $\chi^2/\text{NDF}: 11469.5/88$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.505 $\pm$ 0.157 χ^2 /NDF: 3884.9/18

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 11.077 $\pm$ 0.156 χ^2 /NDF: 4643.3/21

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

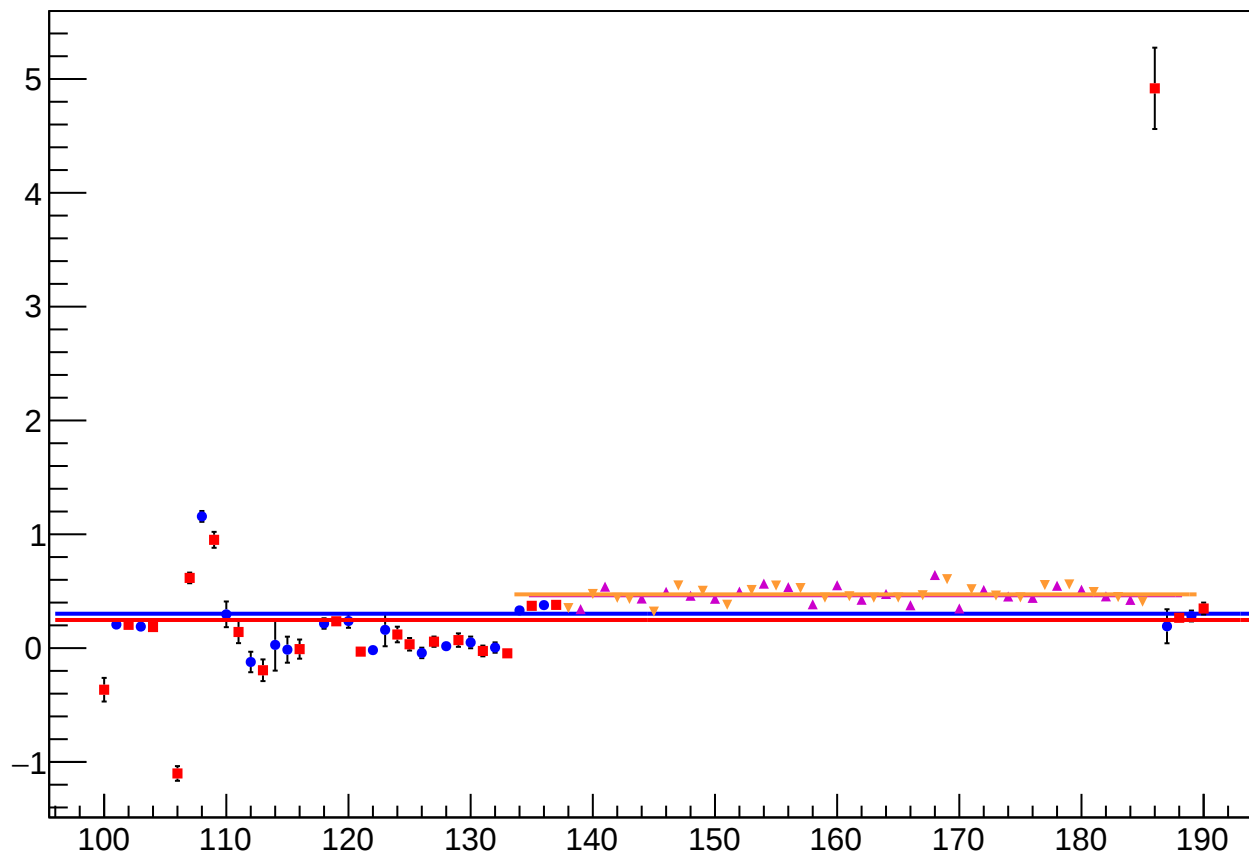
Right: 10.793 $\pm$ 0.111 χ^2 /NDF: 8534.8/40

In: 10.770 $\pm$ 0.059 χ^2 /NDF: 7435.0/41

Out: 10.982 $\pm$ 0.057 χ^2 /NDF: 7281.4/46

All: 10.879 $\pm$ 0.041 χ^2 /NDF: 14723.1/88

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.302 $\pm$ 0.008 χ^2 /NDF: 647.9/18

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.247 $\pm$ 0.008 χ^2 /NDF: 1158.9/21

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF:733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

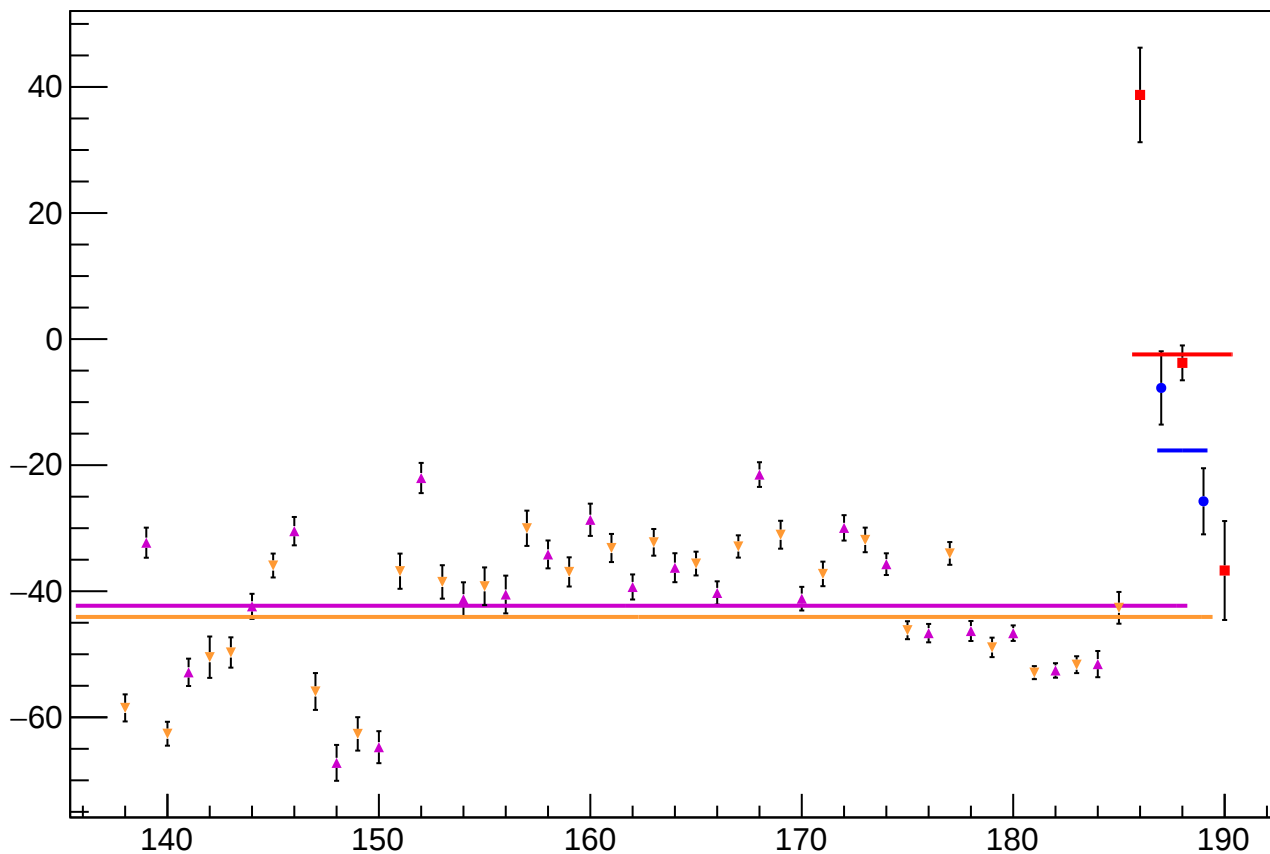
Right: 0.275 $\pm$ 0.006 χ^2 /NDF: 1829.8/40

In: 0.447 $\pm$ 0.003 χ^2 /NDF:1740.0/41

Out: 0.449 $\pm$ 0.003 χ^2 /NDF:2362.1/46

All: 0.448 $\pm$ 0.002 χ^2 /NDF: 4102.4/88

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.666 ± 3.894 $\chi^2/\text{NDF}: 5.3/1$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -2.431 ± 2.463 $\chi^2/\text{NDF}: 49.5/2$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$

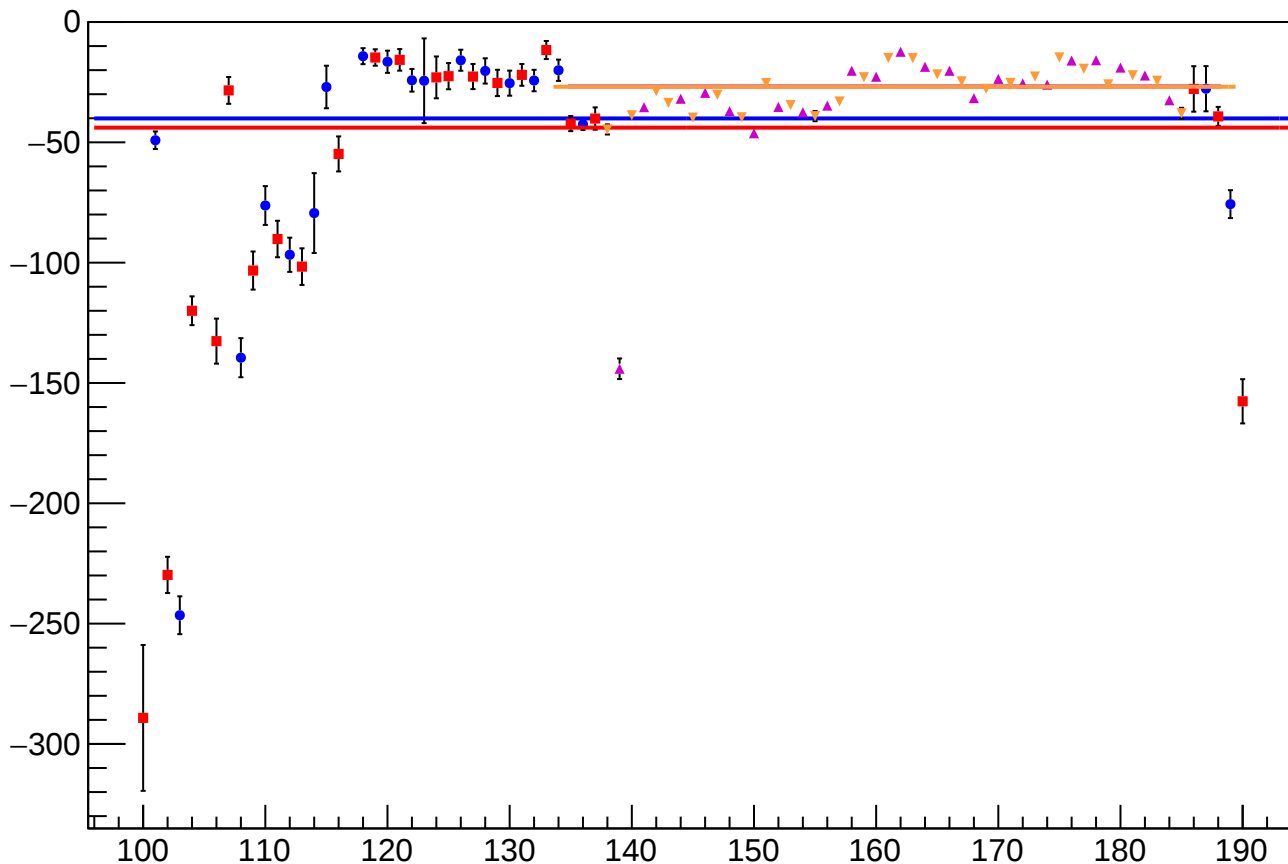
Right: -6.785 ± 2.082 $\chi^2/\text{NDF}: 65.7/4$

In: -42.048 ± 0.397 $\chi^2/\text{NDF}: 685.5/24$

Out: -43.066 ± 0.384 $\chi^2/\text{NDF}: 960.9/27$

All: -42.574 ± 0.276 $\chi^2/\text{NDF}: 1649.8/52$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.067 ± 1.120 $\chi^2/\text{NDF}: 1162.3/18$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -43.890 ± 1.141 $\chi^2/\text{NDF}: 1504.3/21$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

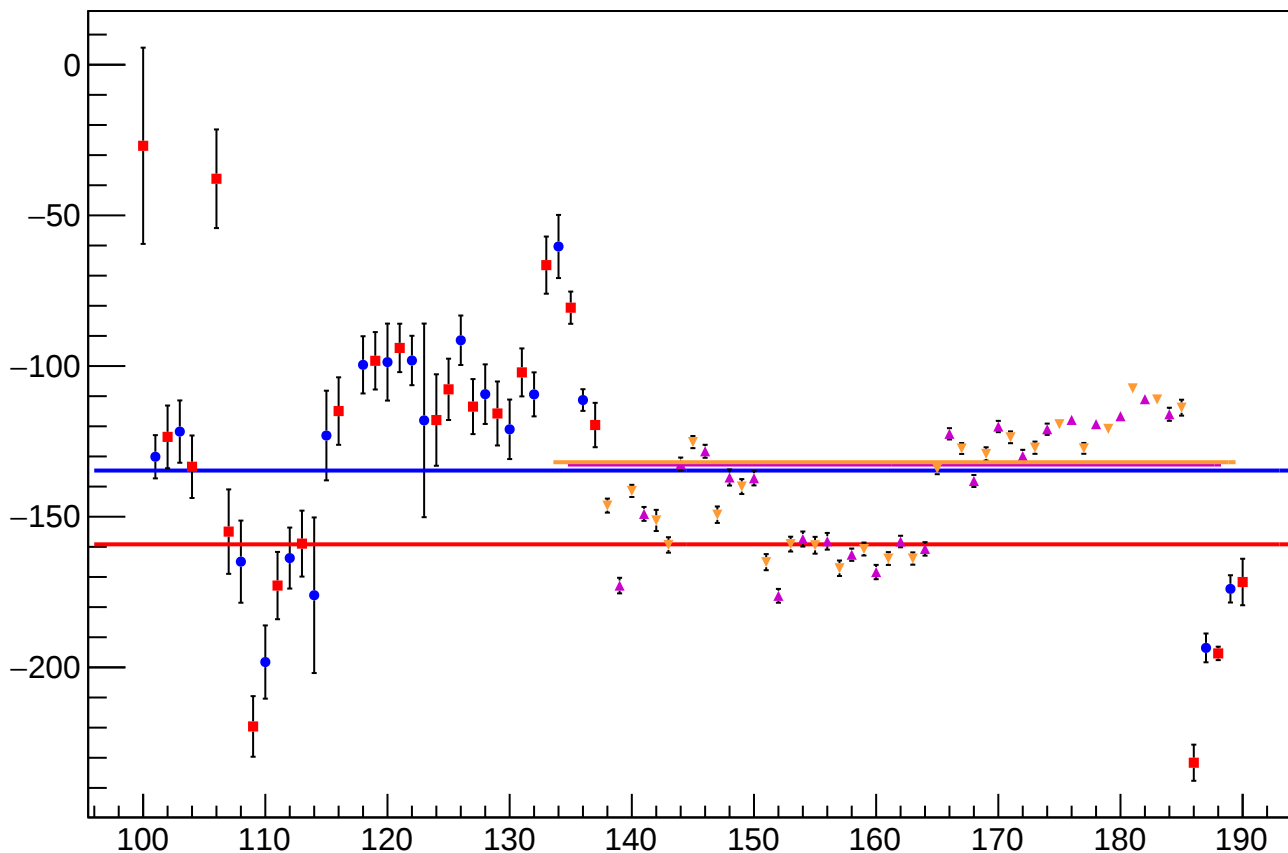
Right: -41.942 ± 0.799 $\chi^2/\text{NDF}: 2672.3/40$

In: -27.814 ± 0.313 $\chi^2/\text{NDF}: 2686.8/41$

Out: -28.114 ± 0.305 $\chi^2/\text{NDF}: 2341.2/46$

All: -27.968 ± 0.218 $\chi^2/\text{NDF}: 5028.4/88$

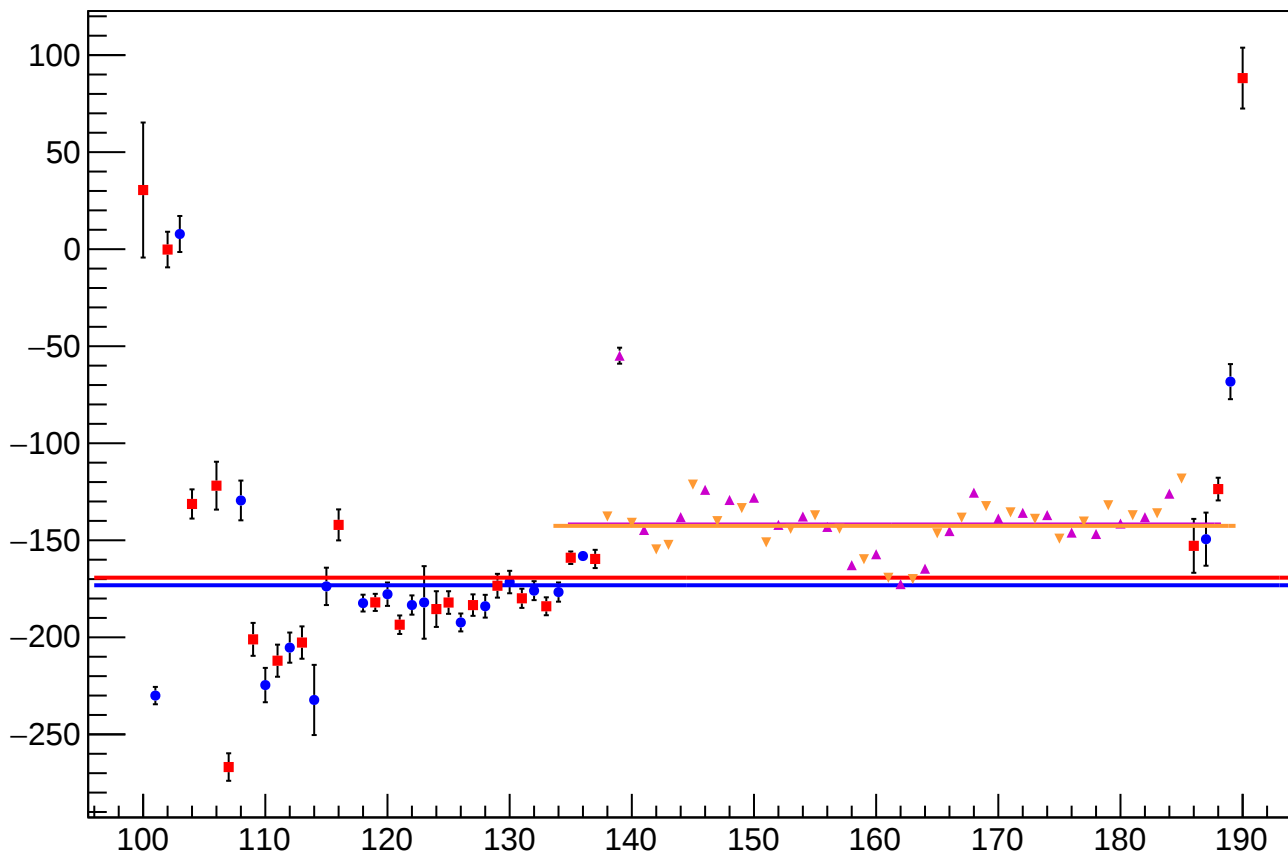
reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -134.680 ± 1.760 $\chi^2/\text{NDF}: 455.2/18$
 Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$
 Right Out: -159.166 ± 1.491 $\chi^2/\text{NDF}: 1127.8/21$
 Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$
 Right: -148.937 ± 1.137 $\chi^2/\text{NDF}: 1695.7/40$
 In: -132.787 ± 0.390 $\chi^2/\text{NDF}: 2936.6/41$
 Out: -133.671 ± 0.379 $\chi^2/\text{NDF}: 3879.8/46$
 All: -133.241 ± 0.271 $\chi^2/\text{NDF}: 6819.1/88$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -173.170 ± 1.261 $\chi^2/\text{NDF}: 832.1/18$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -169.258 ± 1.313 $\chi^2/\text{NDF}: 1080.8/21$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

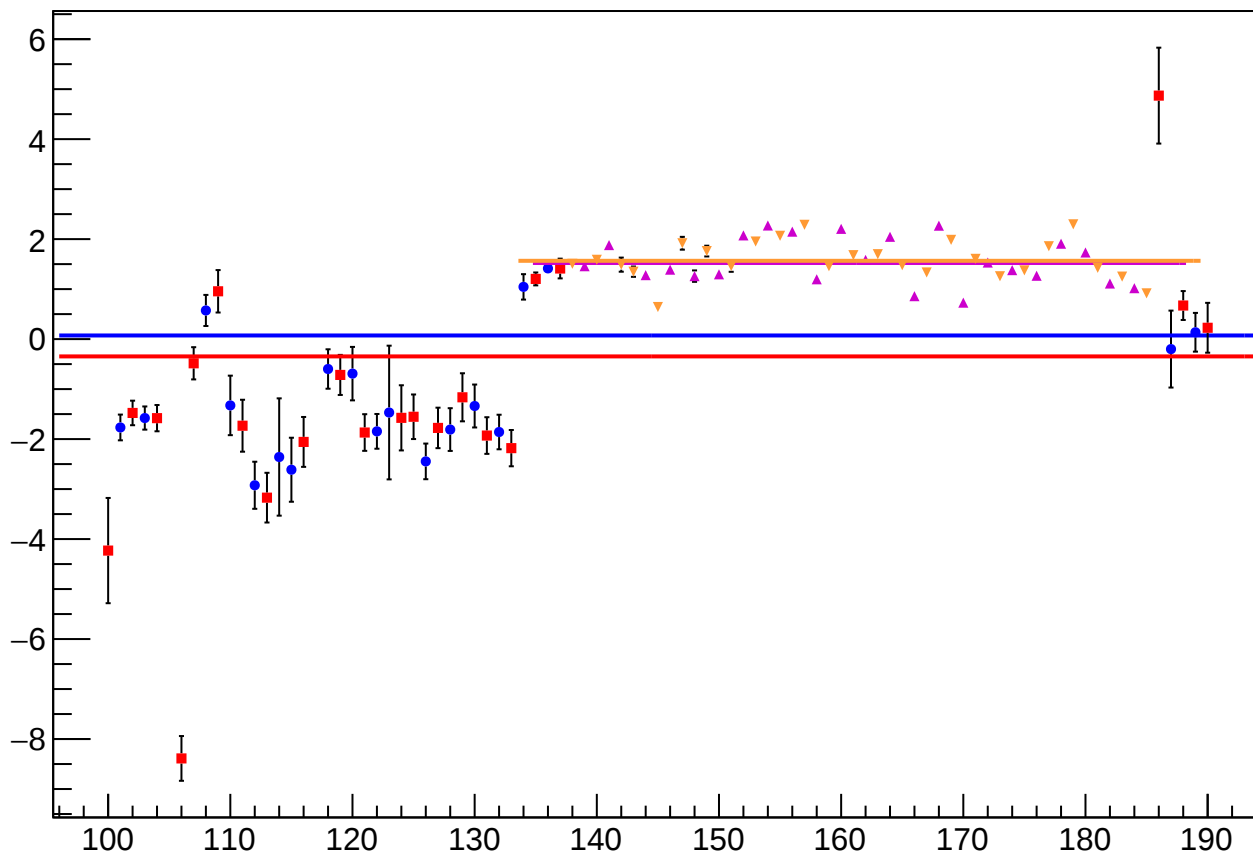
Right: -171.293 ± 0.909 $\chi^2/\text{NDF}: 1917.6/40$

In: -144.263 ± 0.349 $\chi^2/\text{NDF}: 2945.8/41$

Out: -144.373 ± 0.342 $\chi^2/\text{NDF}: 2613.9/46$

All: -144.319 ± 0.244 $\chi^2/\text{NDF}: 5559.7/88$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.073 ± 0.066 χ^2/NDF : 525.3/18

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: -0.346 ± 0.068 χ^2/NDF : 796.0/21

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

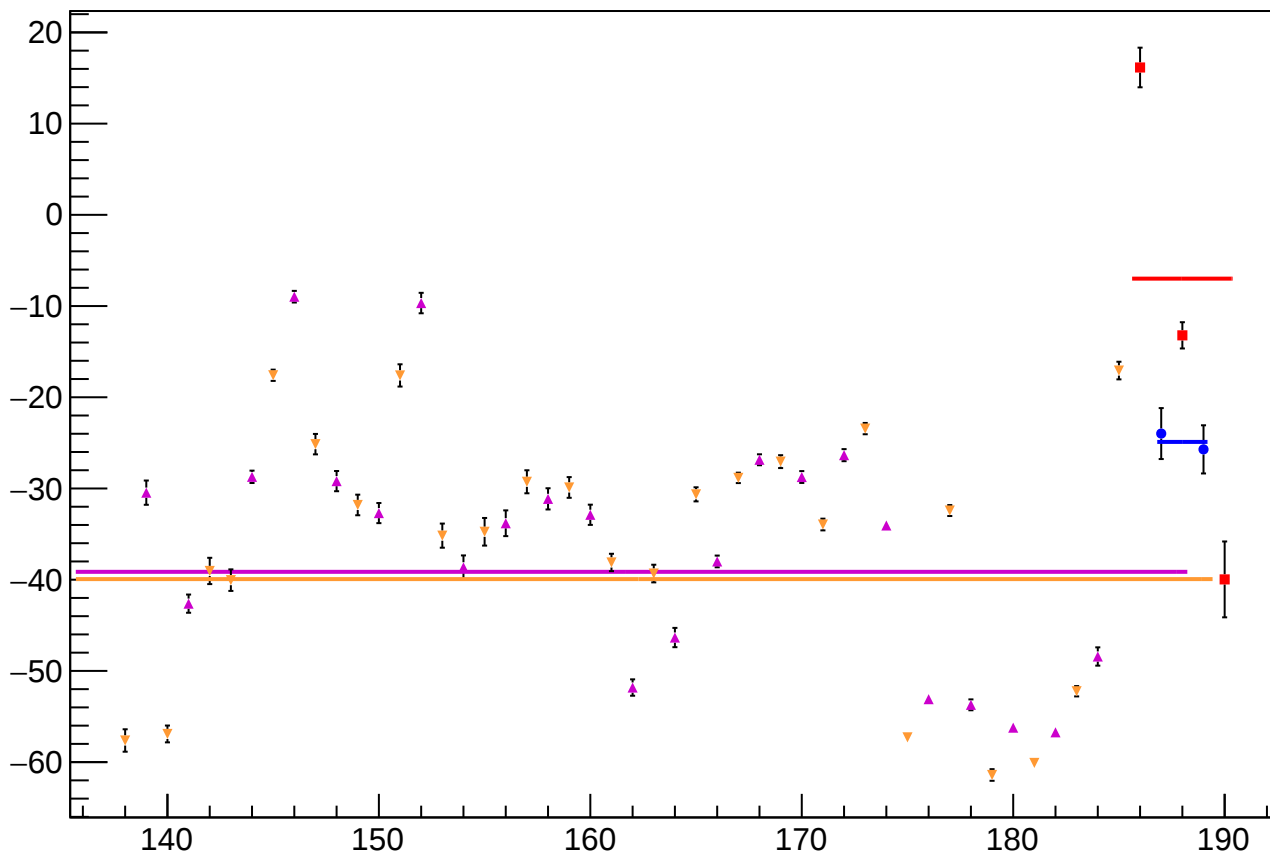
Right: -0.129 ± 0.048 χ^2/NDF : 1340.8/40

In: 1.437 ± 0.016 χ^2/NDF : 1718.9/41

Out: 1.465 ± 0.016 χ^2/NDF : 2077.4/46

All: 1.451 ± 0.011 χ^2/NDF : 3797.8/88

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.895 ± 1.919 $\chi^2/\text{NDF}: 0.2/1$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -6.994 ± 1.153 $\chi^2/\text{NDF}: 195.1/2$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

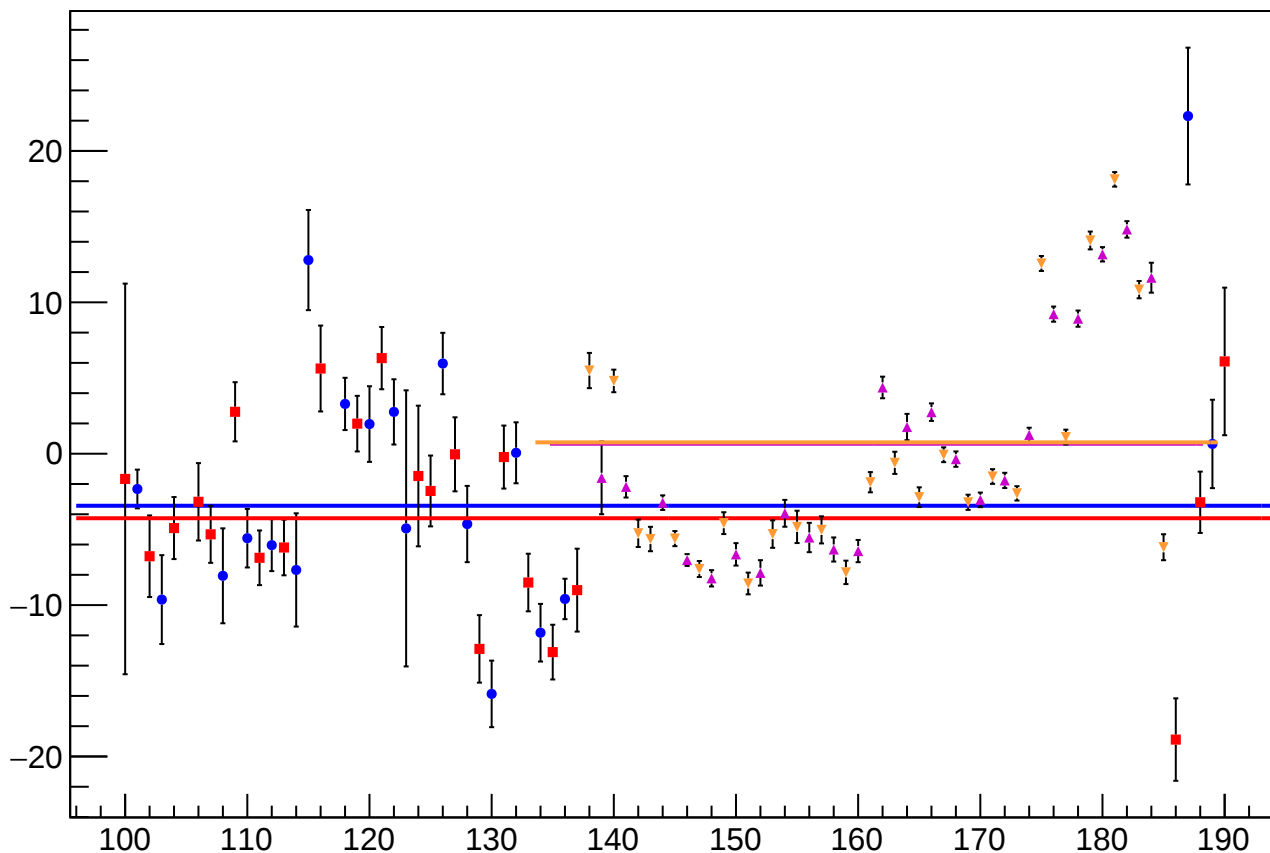
Right: -11.742 ± 0.988 $\chi^2/\text{NDF}: 259.2/4$

In: -39.045 ± 0.154 $\chi^2/\text{NDF}: 8589.4/24$

Out: -39.363 ± 0.152 $\chi^2/\text{NDF}: 10803.6/27$

All: -39.207 ± 0.108 $\chi^2/\text{NDF}: 19395.2/52$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.438 ± 0.489 $\chi^2/\text{NDF}: 196.1/18$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -4.263 ± 0.482 $\chi^2/\text{NDF}: 156.1/21$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

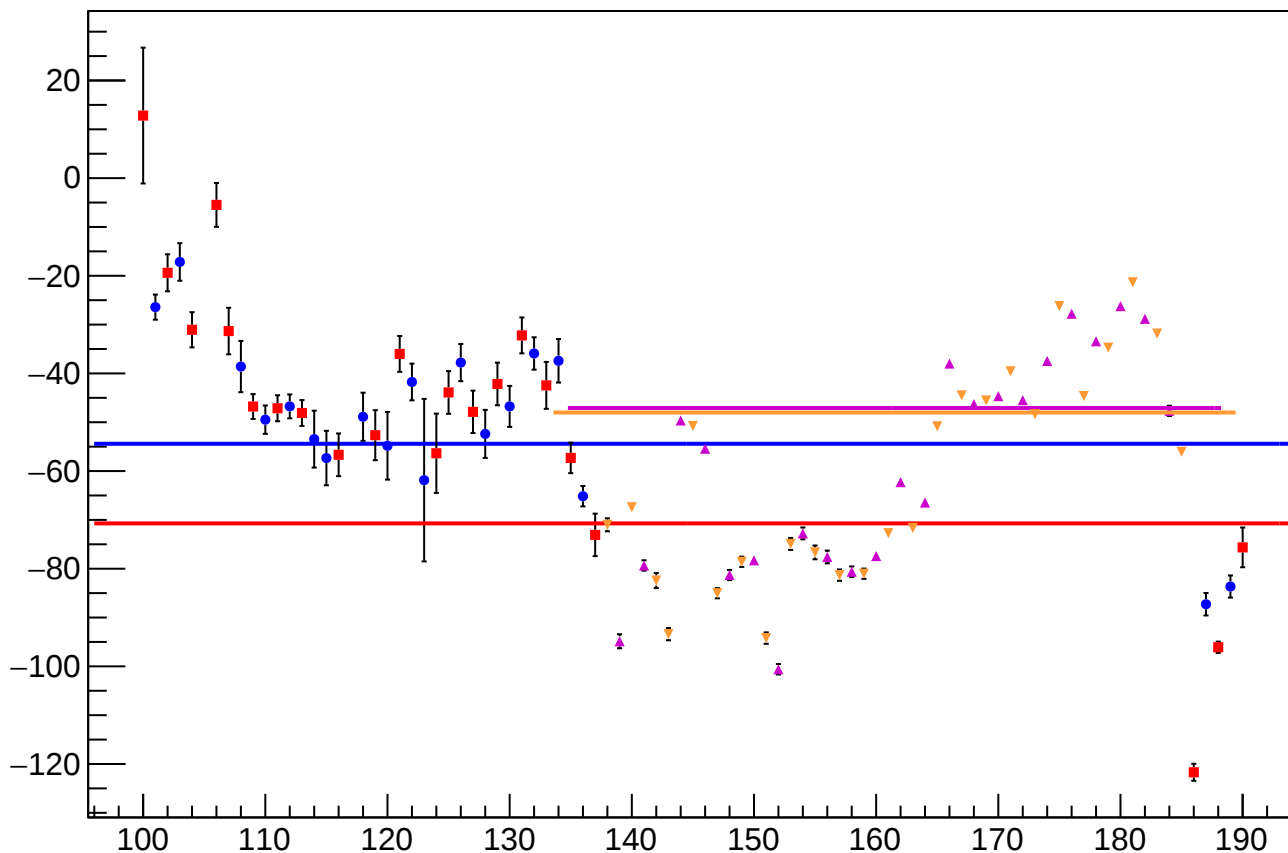
Right: -3.856 ± 0.343 $\chi^2/\text{NDF}: 353.7/40$

In: 0.411 ± 0.121 $\chi^2/\text{NDF}: 3599.9/41$

Out: 0.437 ± 0.120 $\chi^2/\text{NDF}: 4228.3/46$

All: 0.424 ± 0.085 $\chi^2/\text{NDF}: 7828.2/88$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.410 ± 0.776 χ^2/NDF : 713.5/18

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -70.717 ± 0.642 χ^2/NDF : 2579.0/21

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

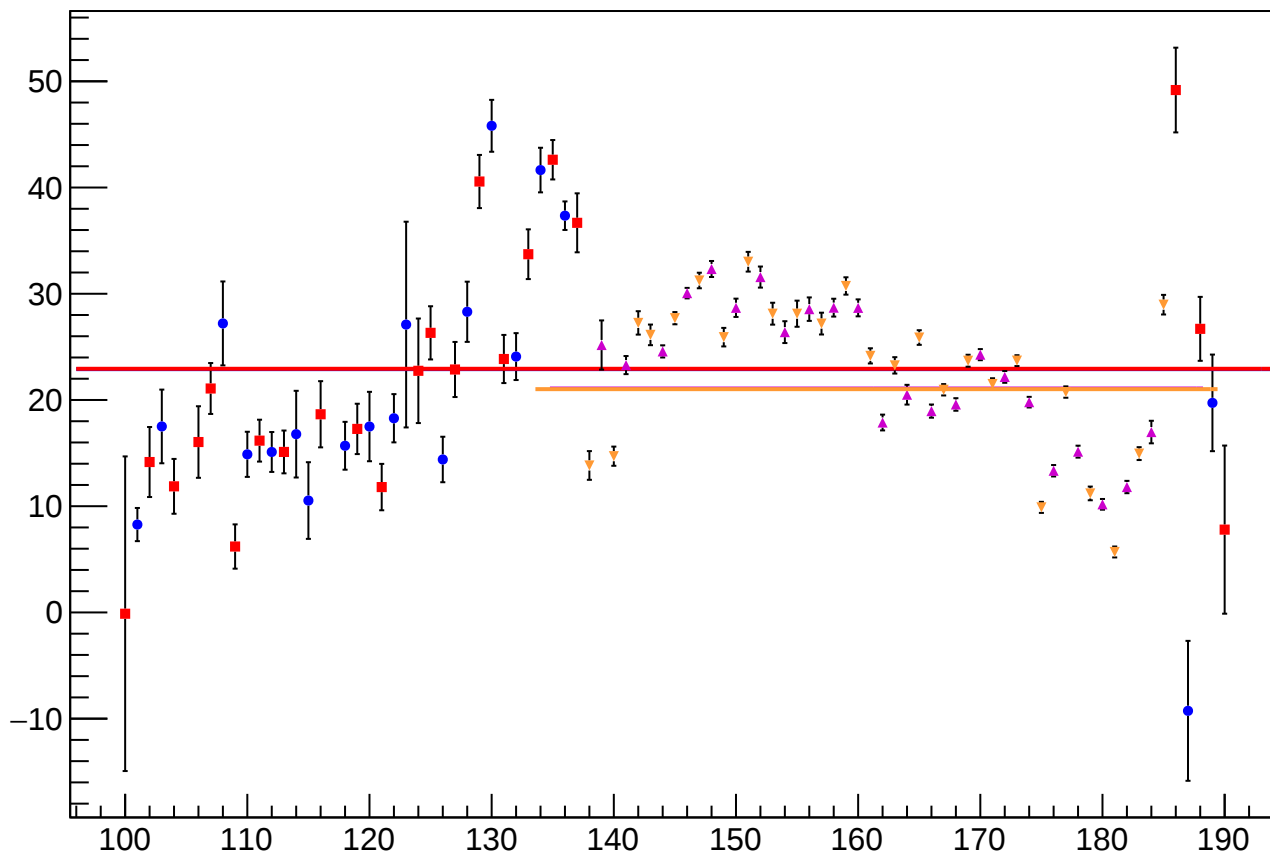
Right: -64.089 ± 0.495 χ^2/NDF : 3554.7/40

In: -47.367 ± 0.152 χ^2/NDF : 16314.5/41

Out: -49.253 ± 0.150 χ^2/NDF : 20711.5/46

All: -48.323 ± 0.107 χ^2/NDF : 37103.6/88

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.904 $\pm$ 0.554 χ^2 /NDF: 481.5/18

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.937 $\pm$ 0.556 χ^2 /NDF: 415.9/21

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

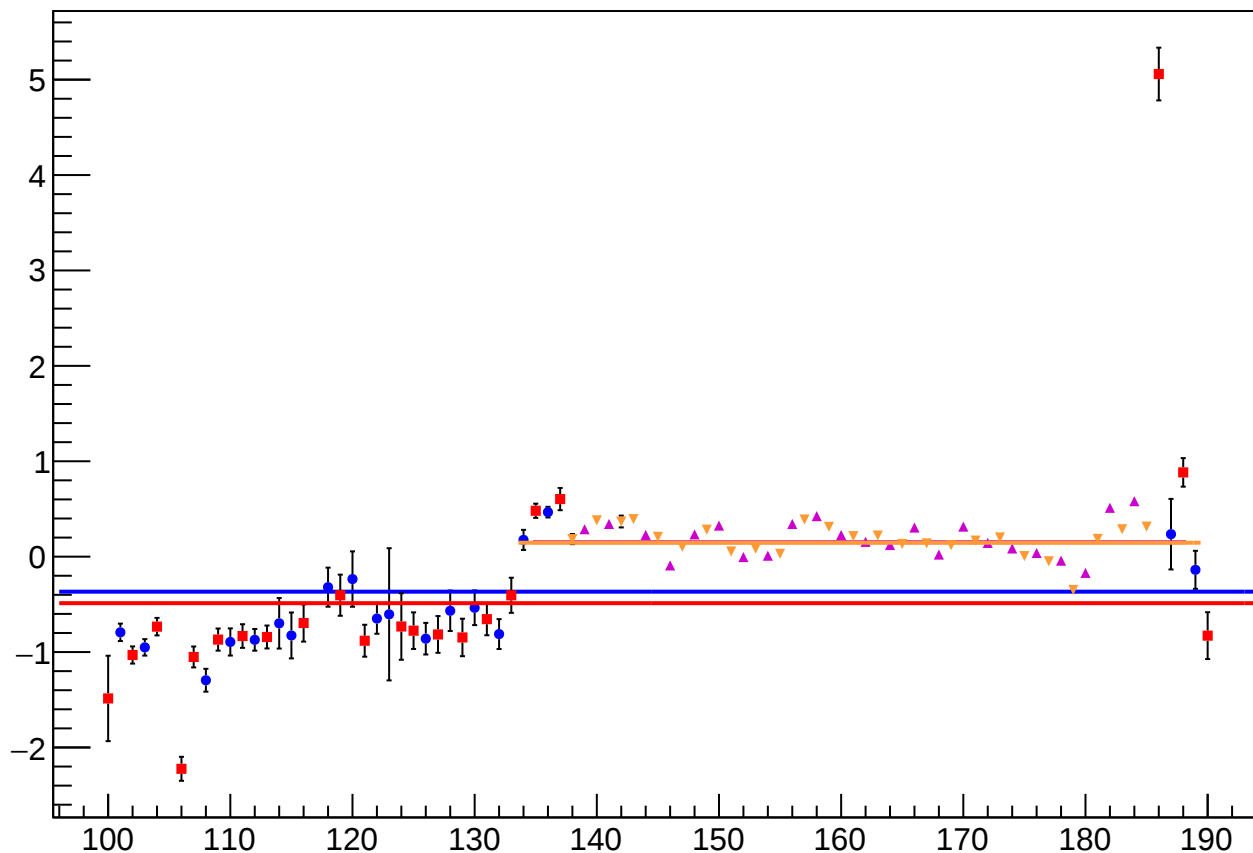
Right: 22.920 $\pm$ 0.392 χ^2 /NDF: 897.5/40

In: 21.188 $\pm$ 0.135 χ^2 /NDF:2665.0/41

Out: 21.132 $\pm$ 0.135 χ^2 /NDF:3226.3/46

All: 21.160 $\pm$ 0.095 χ^2 /NDF: 5891.4/88

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.367 ± 0.030 χ^2/NDF : 441.7/18

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.488 ± 0.029 χ^2/NDF : 1054.9/21

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

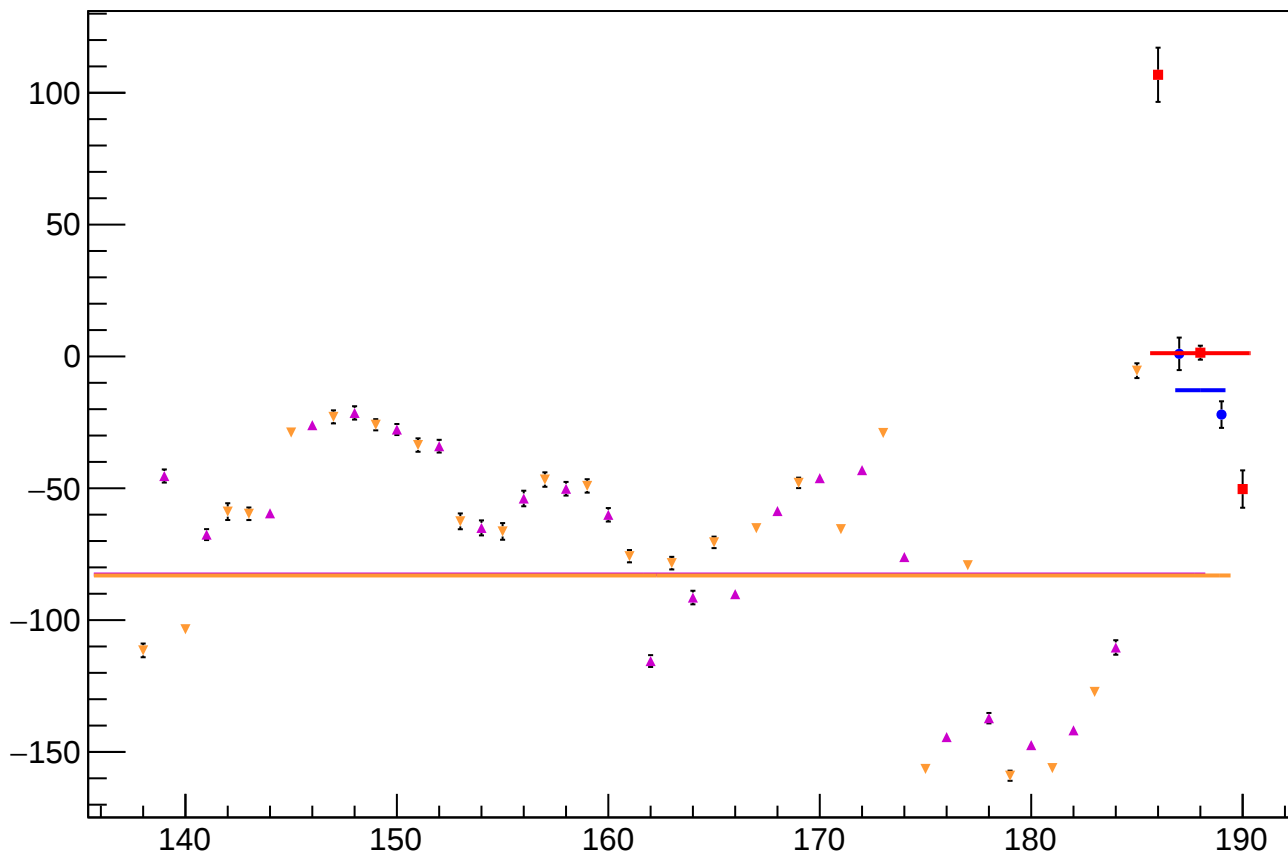
Right: -0.428 ± 0.021 χ^2/NDF : 1504.9/40

In: 0.128 ± 0.006 χ^2/NDF : 1601.9/41

Out: 0.118 ± 0.006 χ^2/NDF : 2112.9/46

All: 0.123 ± 0.004 χ^2/NDF : 3716.1/88

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.810 ± 3.903 χ^2/NDF : 8.4/1
 Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24
 Right Out: 1.237 ± 2.415 χ^2/NDF : 158.3/2
 Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

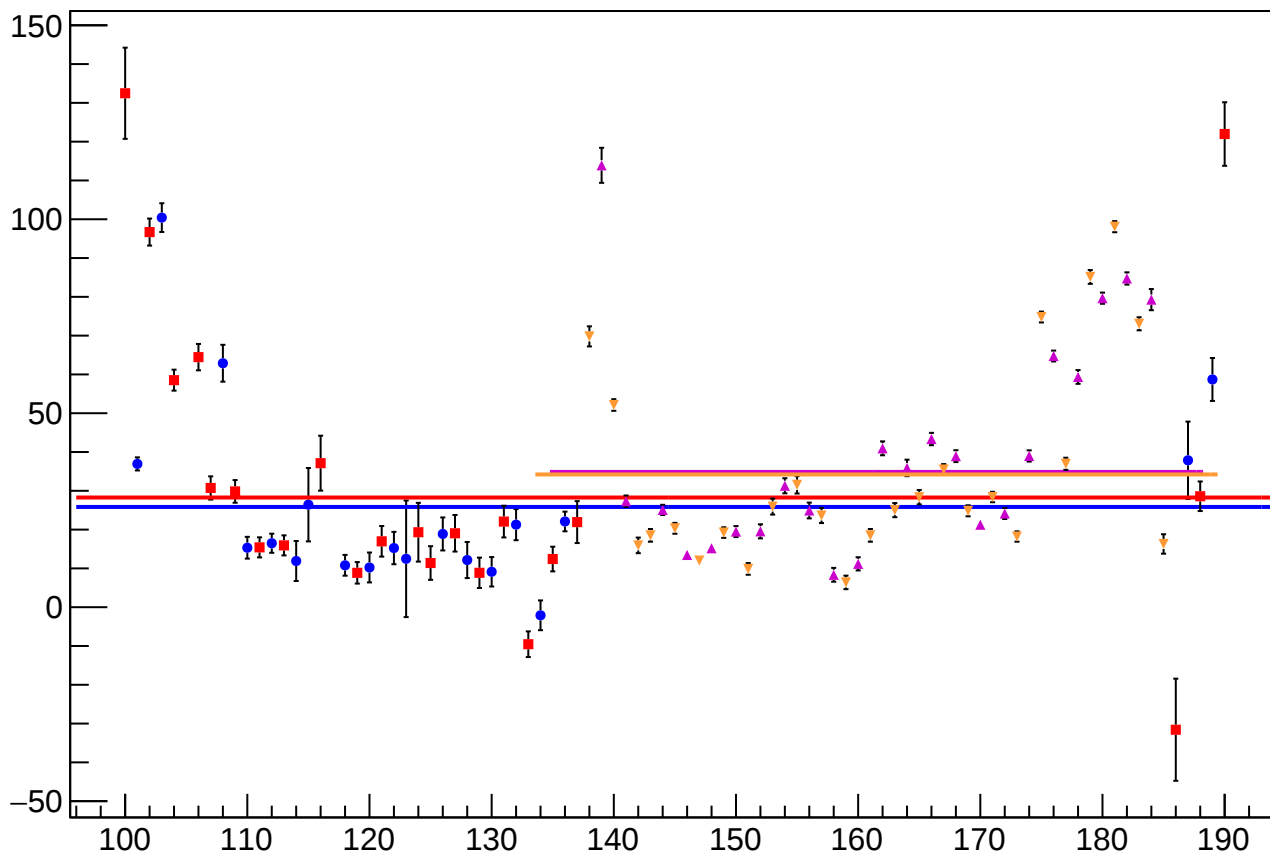
Right: -2.652 ± 2.054 χ^2/NDF : 176.1/4

In: -81.929 ± 0.413 χ^2/NDF : 11166.9/24

Out: -80.747 ± 0.401 χ^2/NDF : 15160.7/27

All: -81.320 ± 0.288 χ^2/NDF : 26331.8/52

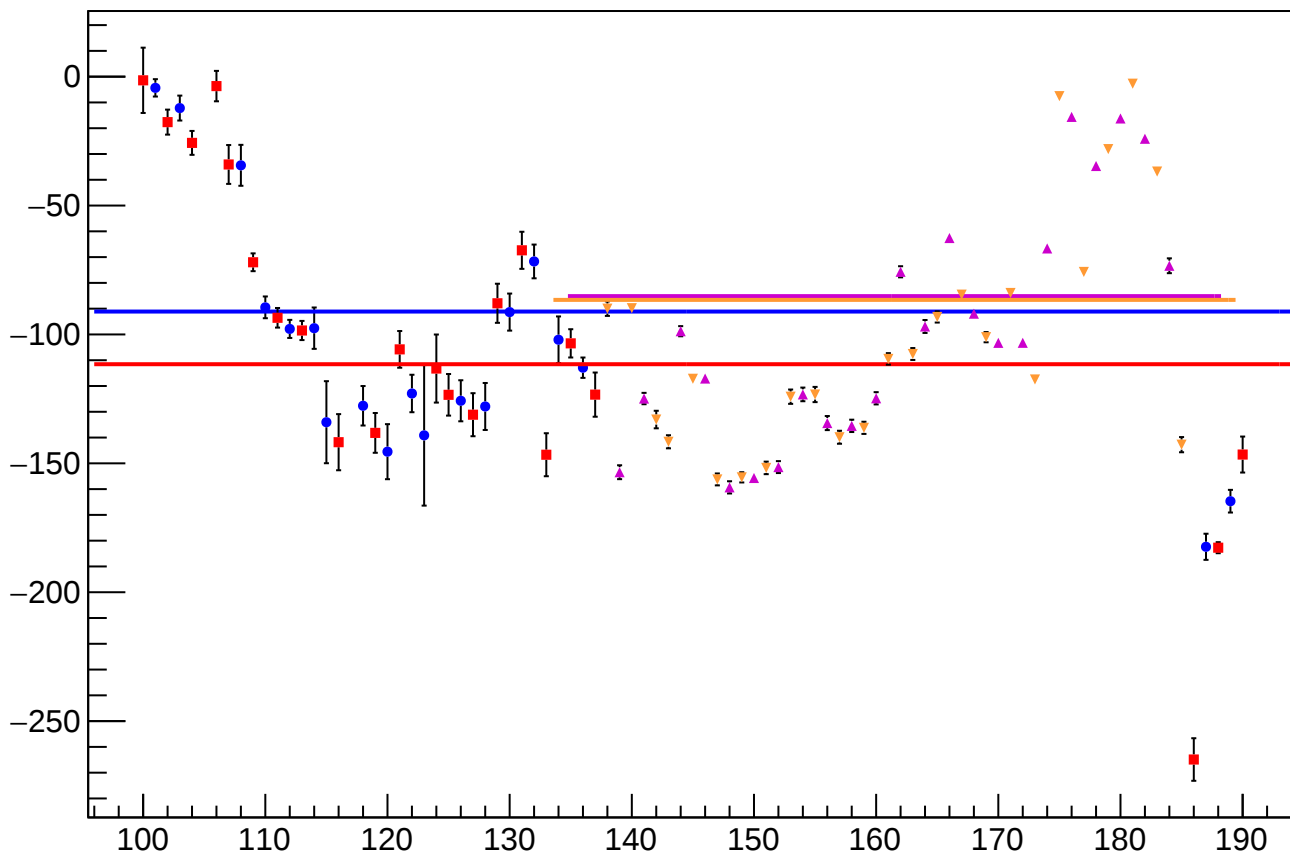
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.841 ± 0.797 $\chi^2/\text{NDF}: 724.1/18$
 Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$
 Right Out: 28.273 ± 0.788 $\chi^2/\text{NDF}: 1165.9/21$
 Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$
 Right: 27.070 ± 0.560 $\chi^2/\text{NDF}: 1894.7/40$
 In: 33.552 ± 0.304 $\chi^2/\text{NDF}: 5550.0/41$
 Out: 33.376 ± 0.297 $\chi^2/\text{NDF}: 7407.3/46$
 All: 33.462 ± 0.212 $\chi^2/\text{NDF}: 12957.5/88$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -91.118 ± 1.305 $\chi^2/\text{NDF}: 1744.1/18$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -111.547 ± 1.119 $\chi^2/\text{NDF}: 2968.6/21$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

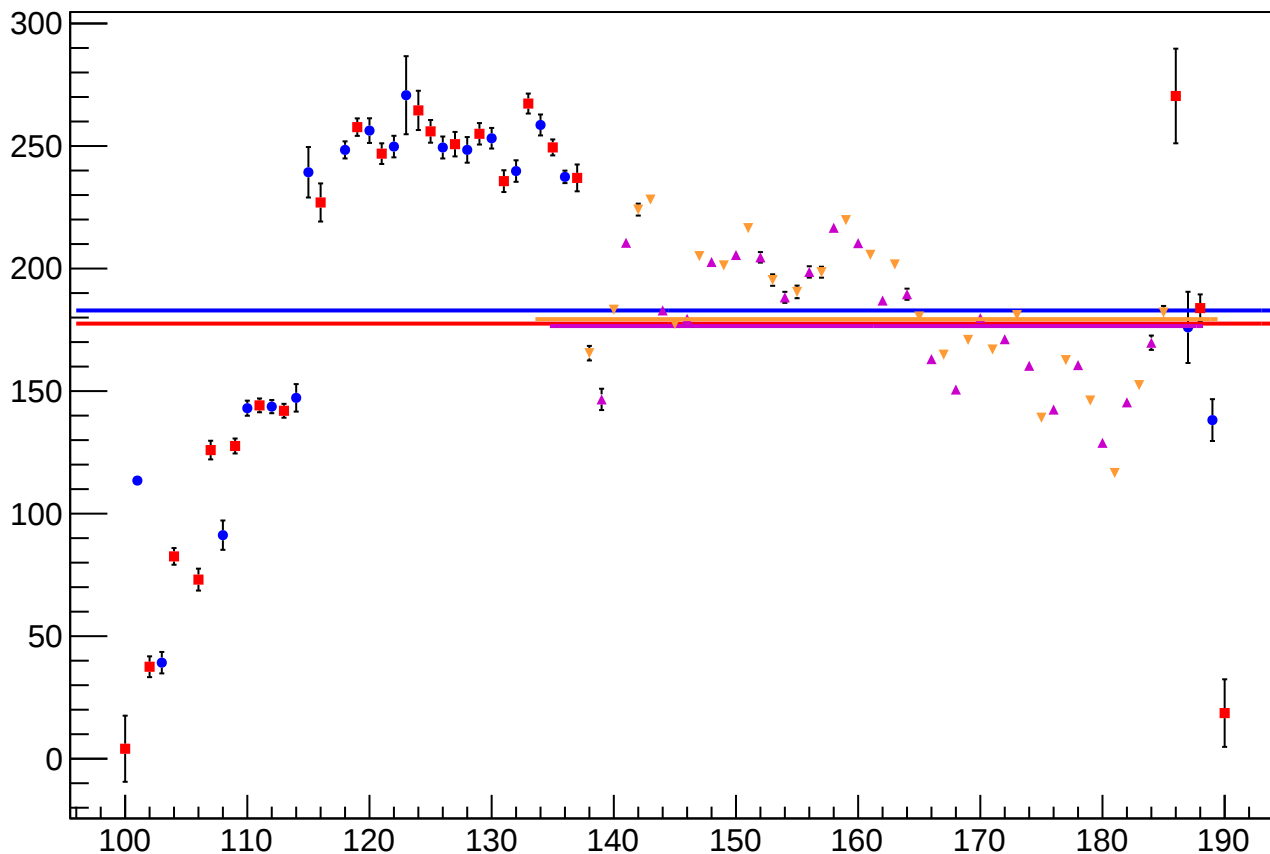
Right: -102.885 ± 0.850 $\chi^2/\text{NDF}: 4853.9/40$

In: -85.684 ± 0.395 $\chi^2/\text{NDF}: 14604.5/41$

Out: -89.527 ± 0.384 $\chi^2/\text{NDF}: 17922.8/46$

All: -87.664 ± 0.275 $\chi^2/\text{NDF}: 32575.9/88$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 182.901 $\pm$ 0.913 χ^2 /NDF: 5346.3/18

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 177.539 $\pm$ 0.910 χ^2 /NDF: 6494.0/21

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

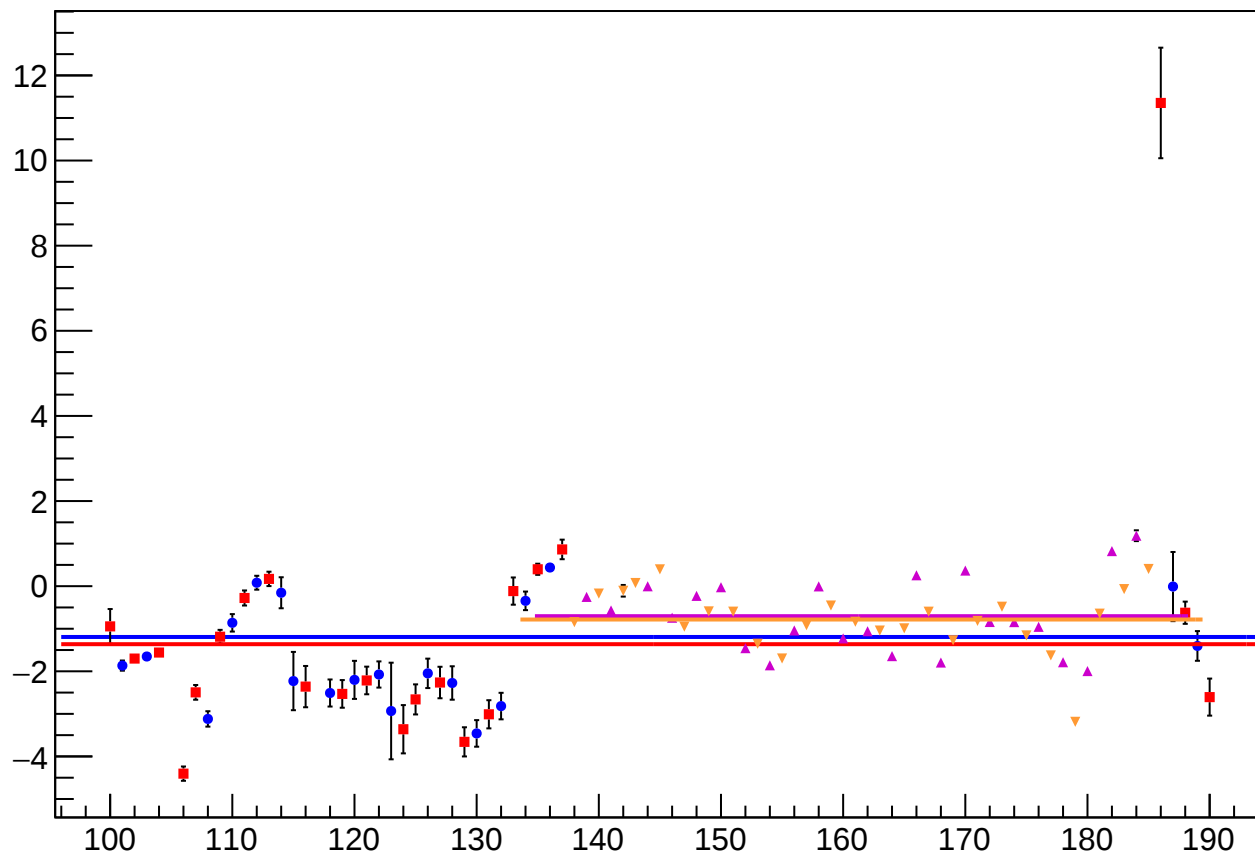
Right: 180.210 $\pm$ 0.644 χ^2 /NDF: 11857.6/40

In: 177.433 $\pm$ 0.344 χ^2 /NDF: 9814.0/41

Out: 179.110 $\pm$ 0.336 χ^2 /NDF: 12479.7/46

All: 178.290 $\pm$ 0.240 χ^2 /NDF: 22305.9/88

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.193 ± 0.048 χ^2/NDF : 622.9/18

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.363 ± 0.045 χ^2/NDF : 1031.8/21

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

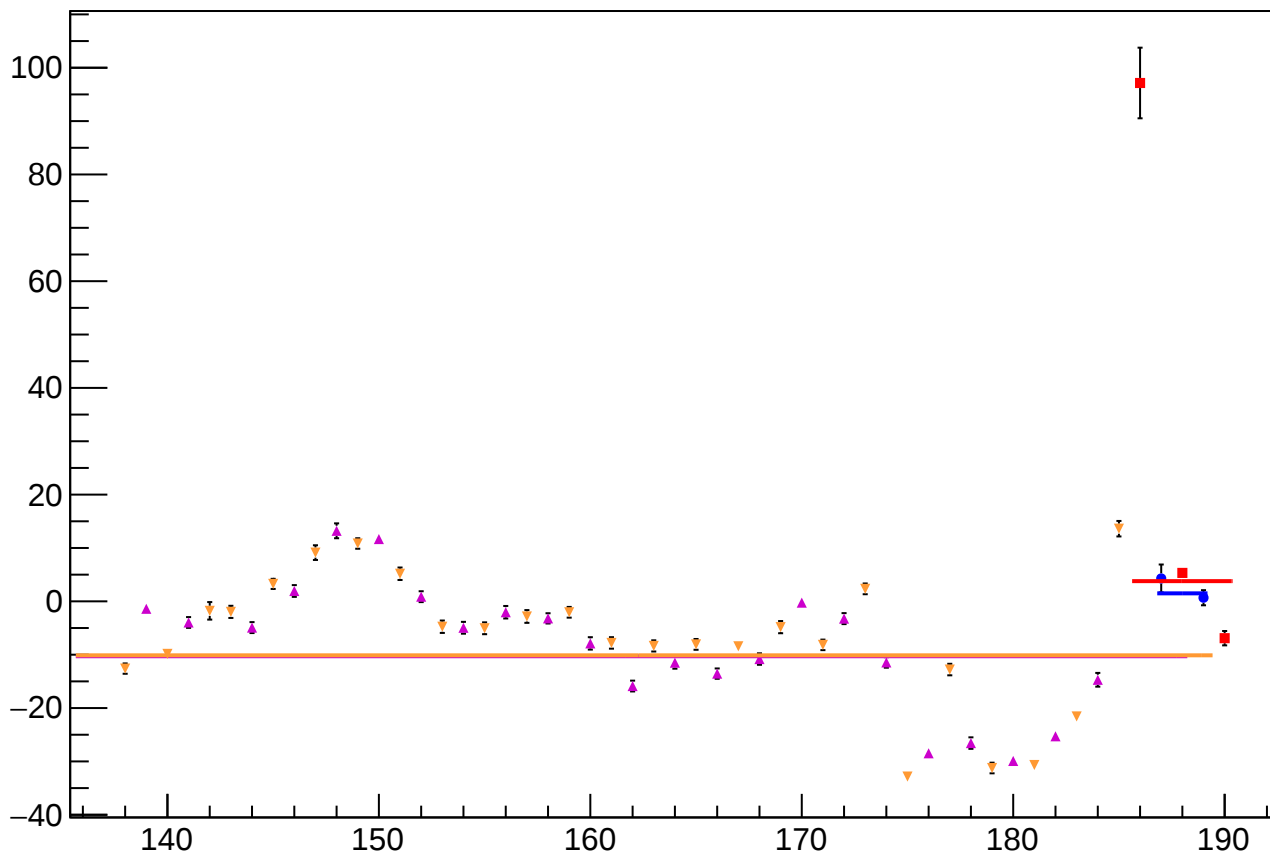
Right: -1.283 ± 0.033 χ^2/NDF : 1661.4/40

In: -0.759 ± 0.016 χ^2/NDF : 3123.8/41

Out: -0.853 ± 0.016 χ^2/NDF : 2950.0/46

All: -0.807 ± 0.011 χ^2/NDF : 6091.4/88

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.496+/-1.246 χ^2/NDF : 1.5/1

Left Out: -10.117+/-0.201 χ^2/NDF : 4138.1/24

Right Out: 3.785+/-0.576 χ^2/NDF : 267.8/2

Left In: -10.290+/-0.205 χ^2/NDF : 3451.0/22

Left: -10.202+/-0.144 χ^2/NDF : 7589.5/47

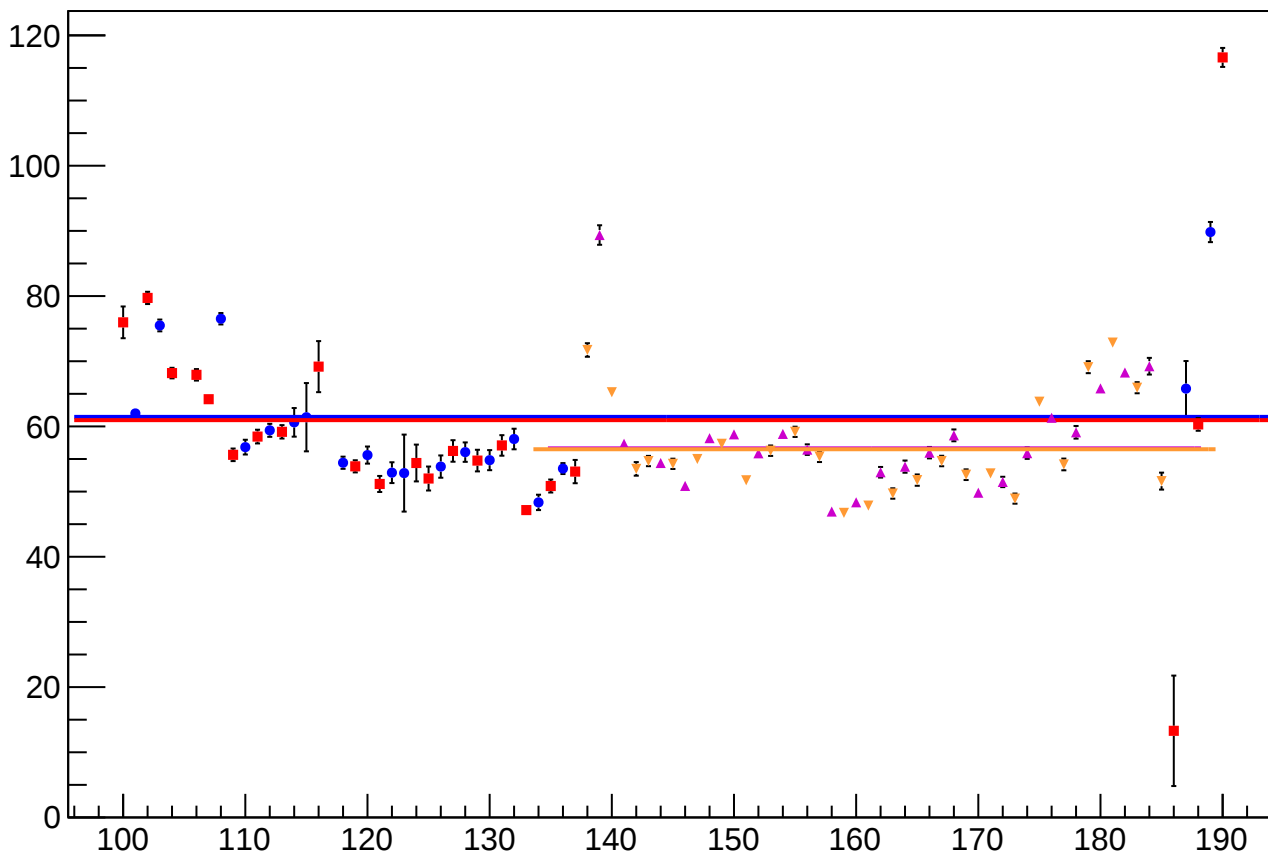
Right: 3.383+/-0.523 χ^2/NDF : 272.0/4

In: -9.979+/-0.203 χ^2/NDF : 3539.5/24

Out: -8.601+/-0.190 χ^2/NDF : 4925.5/27

All: -9.246+/-0.139 χ^2/NDF : 8489.6/52

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 61.463+/-0.259 χ^2/NDF : 1271.3/18

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 60.961+/-0.237 χ^2/NDF : 2853.8/21

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

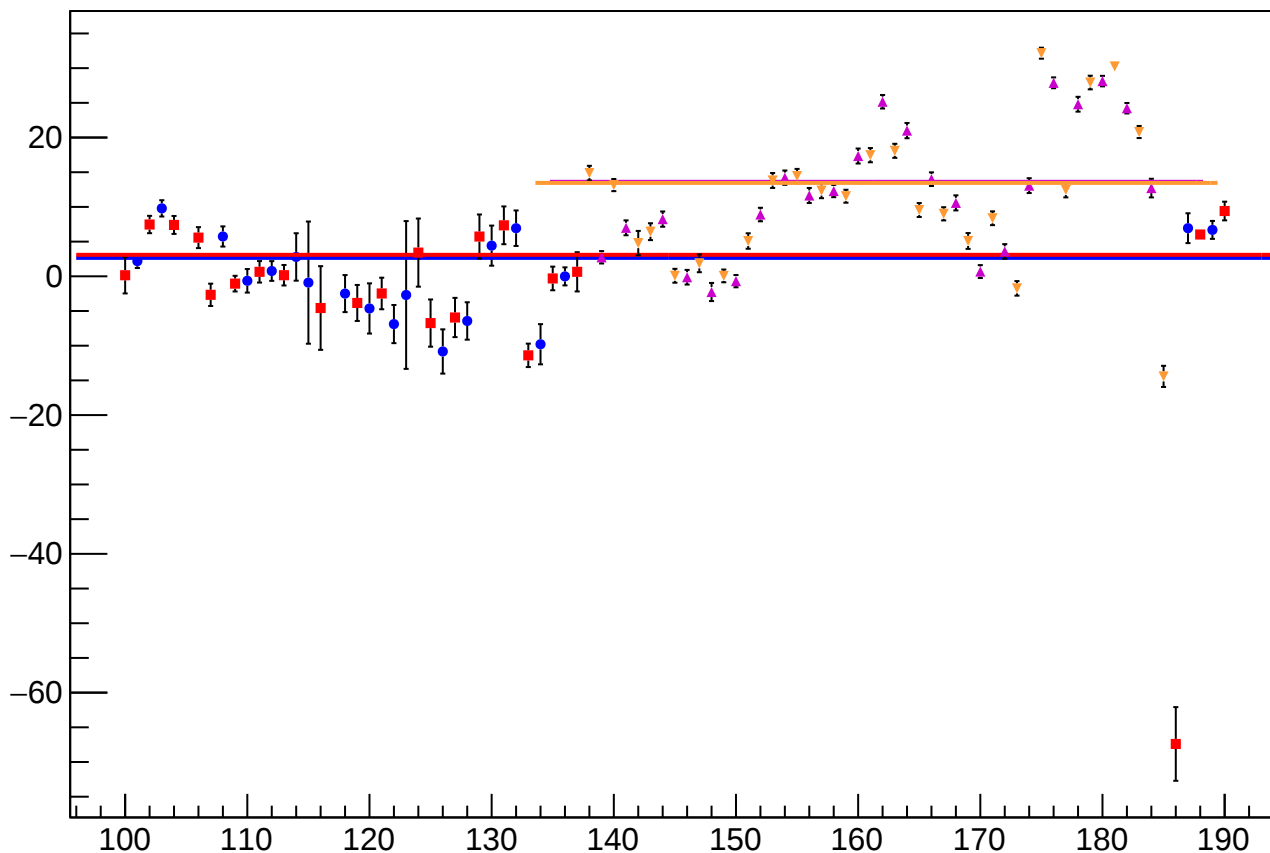
Right: 61.189+/-0.175 χ^2/NDF : 4127.1/40

In: 58.030+/-0.139 χ^2/NDF :3126.1/41

Out: 57.880+/-0.132 χ^2/NDF :5066.6/46

All: 57.951+/-0.096 χ^2/NDF : 8193.3/88

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.659 ± 0.424 χ^2/NDF : 136.3/18

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 3.096 ± 0.319 χ^2/NDF : 404.8/21

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

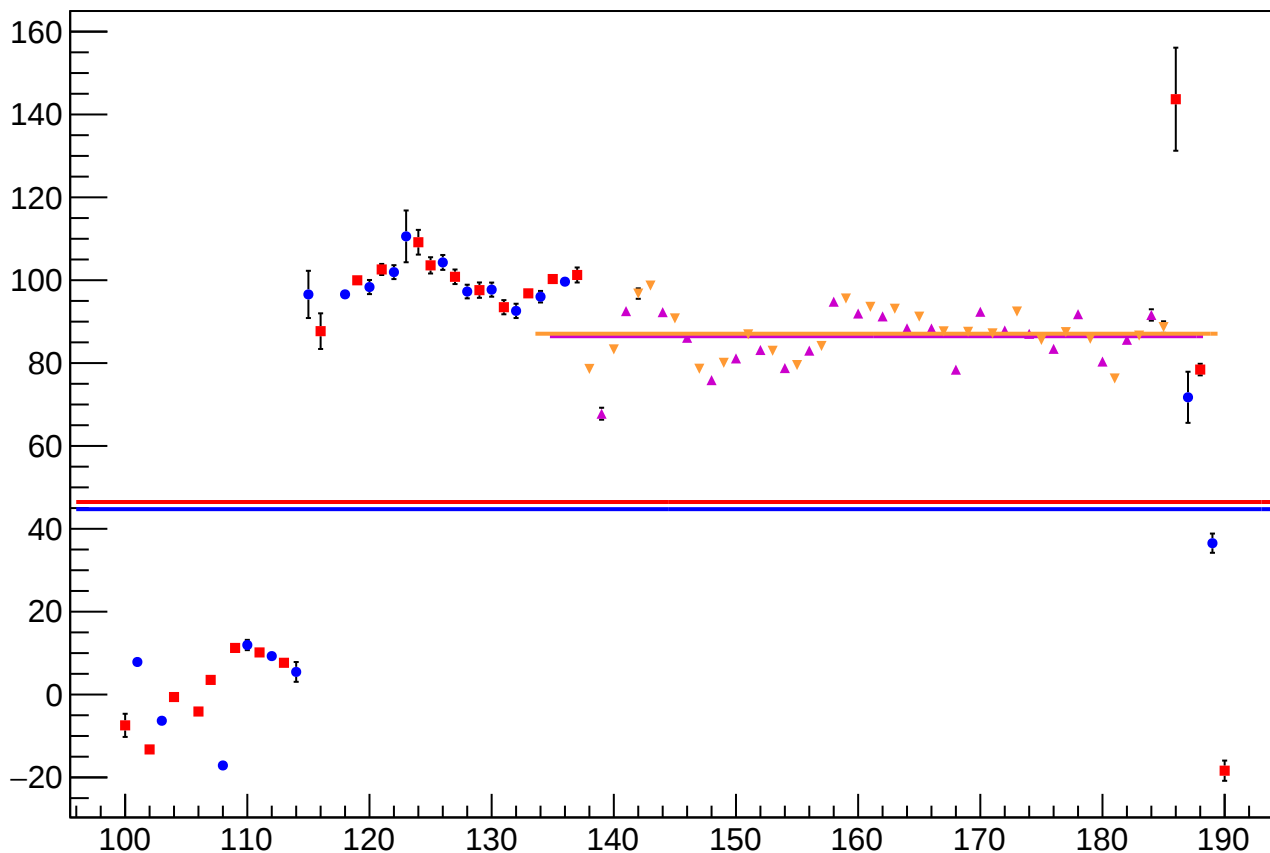
Right: 2.938 ± 0.255 χ^2/NDF : 541.7/40

In: 11.555 ± 0.184 χ^2/NDF : 2993.2/41

Out: 10.504 ± 0.170 χ^2/NDF : 3896.3/46

All: 10.989 ± 0.125 χ^2/NDF : 6907.0/88

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.742 ± 0.302 χ^2/NDF : 24731.8/18

Left Out: 87.087 ± 0.179 χ^2/NDF : 1085.8/24

Right Out: 46.470 ± 0.282 χ^2/NDF : 29508.7/21

Left In: 86.482 ± 0.185 χ^2/NDF : 1003.2/22

Left: 86.794 ± 0.129 χ^2/NDF : 2094.5/47

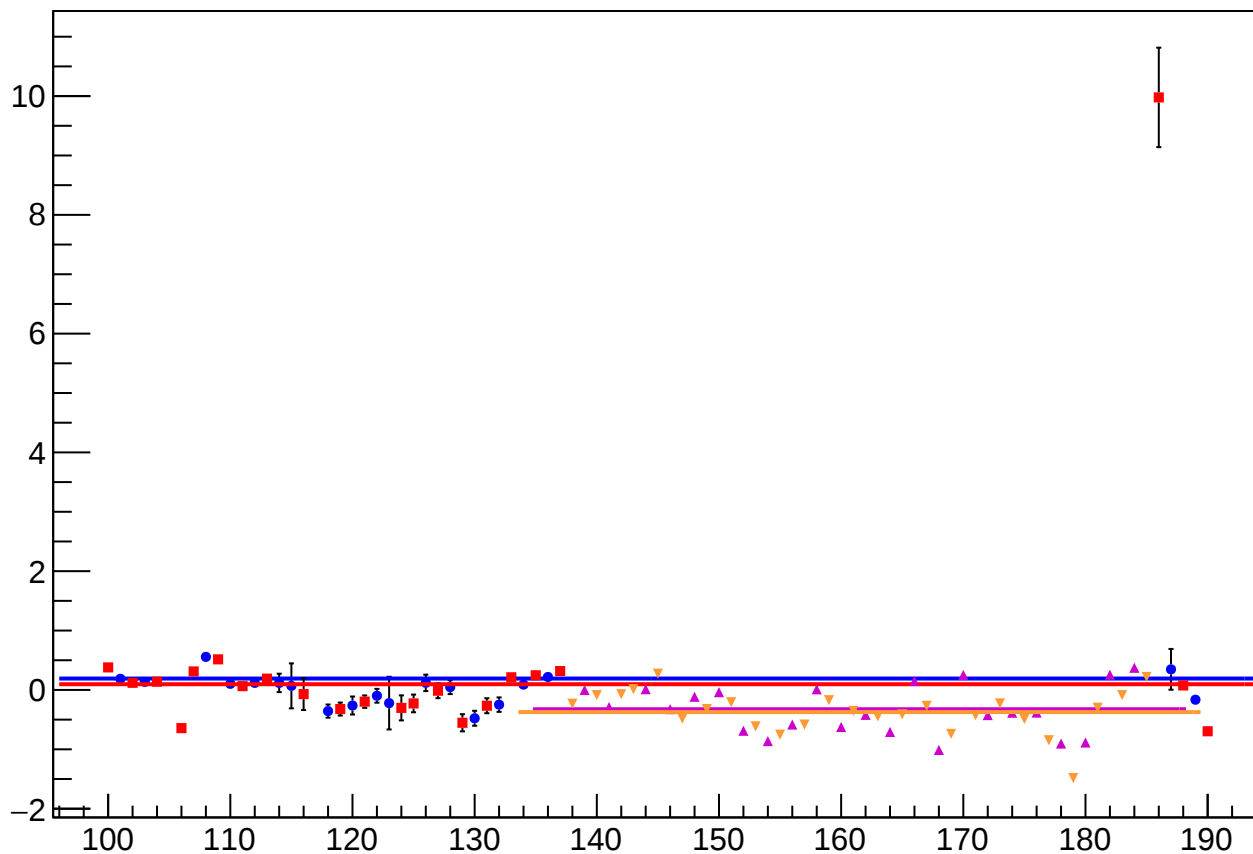
Right: 45.666 ± 0.206 χ^2/NDF : 54258.0/40

In: 75.130 ± 0.158 χ^2/NDF : 39638.1/41

Out: 75.398 ± 0.151 χ^2/NDF : 45399.2/46

All: 75.269 ± 0.109 χ^2/NDF : 85038.8/88

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.192 ± 0.014 χ^2/NDF : 235.9/18

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: 0.096 ± 0.013 χ^2/NDF : 746.6/21

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

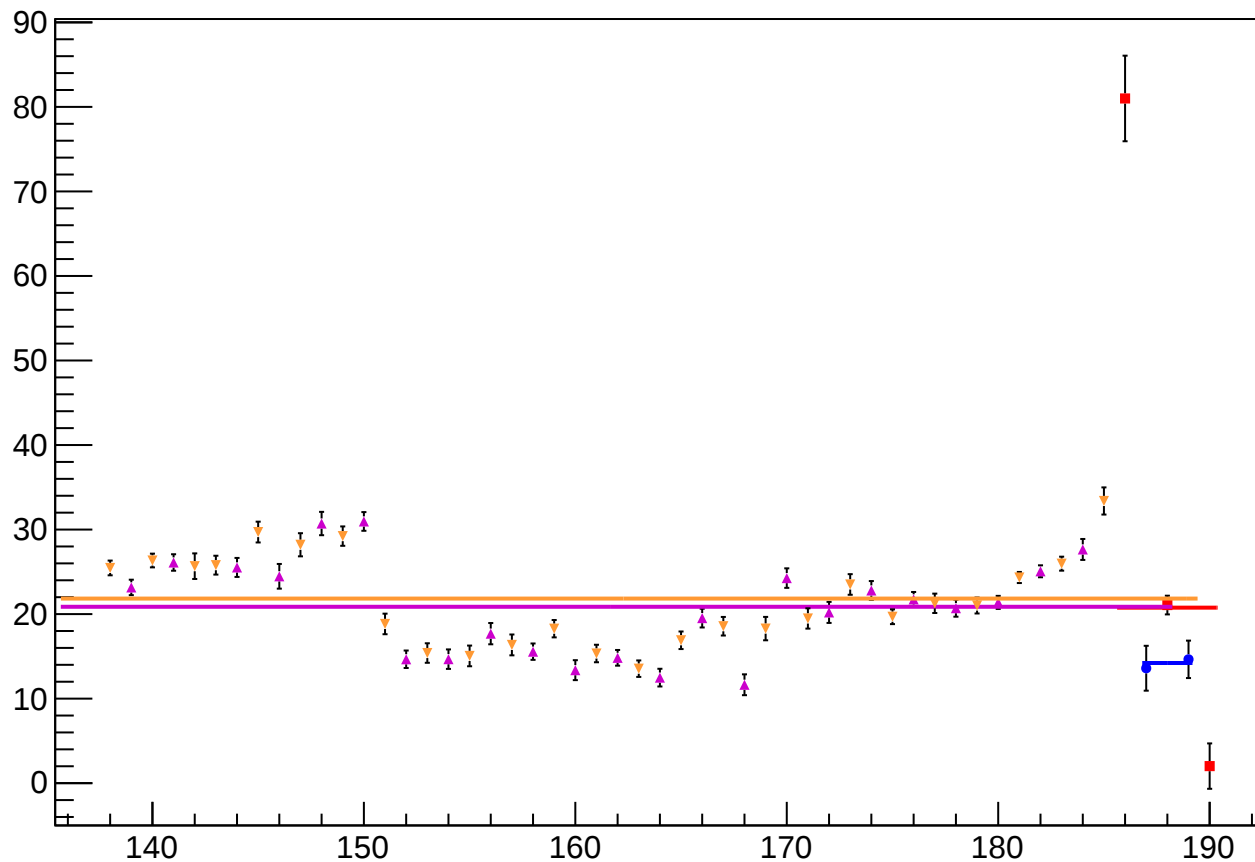
Right: 0.139 ± 0.009 χ^2/NDF : 1008.6/40

In: -0.191 ± 0.007 χ^2/NDF : 3551.4/41

Out: -0.235 ± 0.007 χ^2/NDF : 3398.9/46

All: -0.213 ± 0.005 χ^2/NDF : 6970.7/88

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.216 $\pm$ 1.700 χ^2 /NDF: 0.1/1

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 20.763 $\pm$ 1.003 χ^2 /NDF: 190.4/2

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

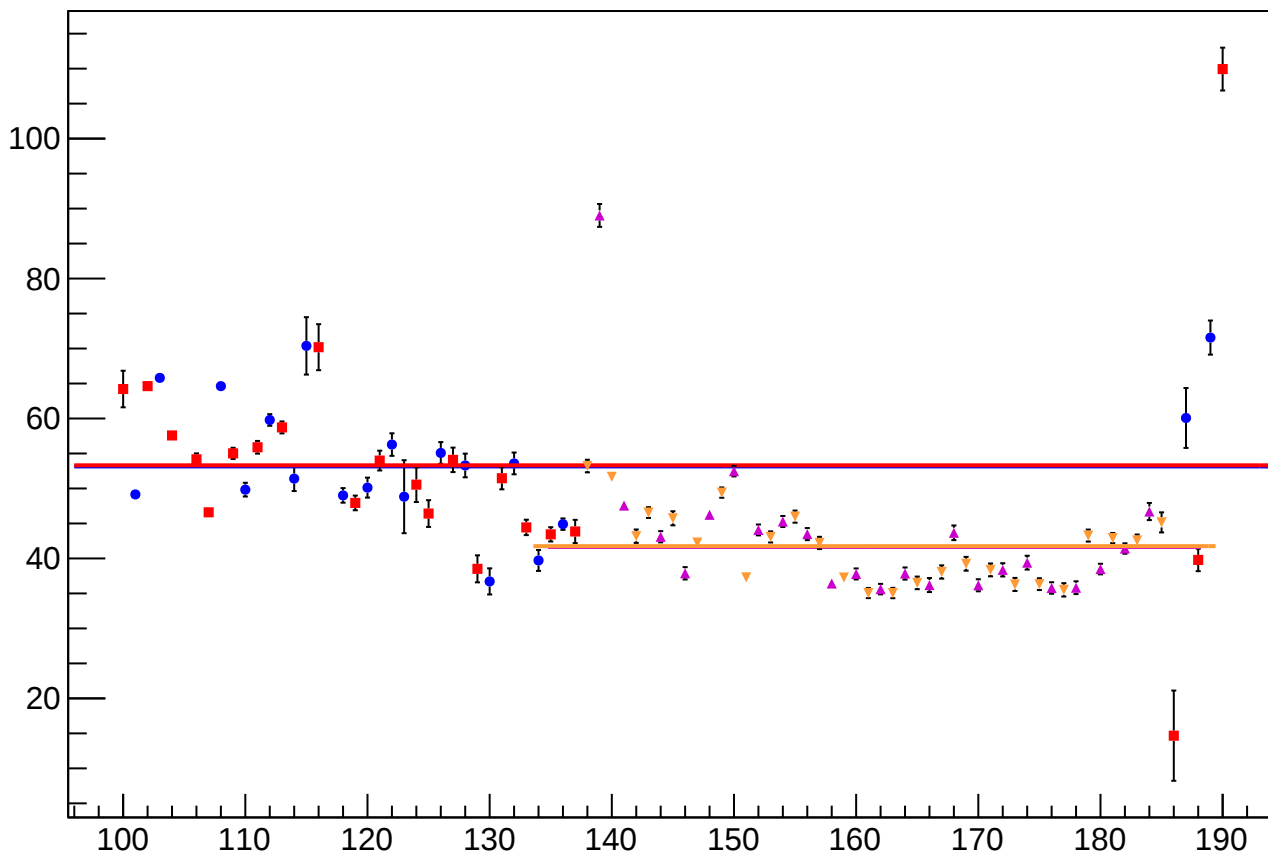
Right: 19.073 $\pm$ 0.864 χ^2 /NDF: 201.5/4

In: 20.759 $\pm$ 0.215 χ^2 /NDF:592.0/24

Out: 21.791 $\pm$ 0.205 χ^2 /NDF:715.9/27

All: 21.299 $\pm$ 0.148 χ^2 /NDF: 1319.9/52

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.149 $\pm$ 0.210 χ^2 /NDF: 1258.1/18

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 53.309 $\pm$ 0.224 χ^2 /NDF: 1325.5/21

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

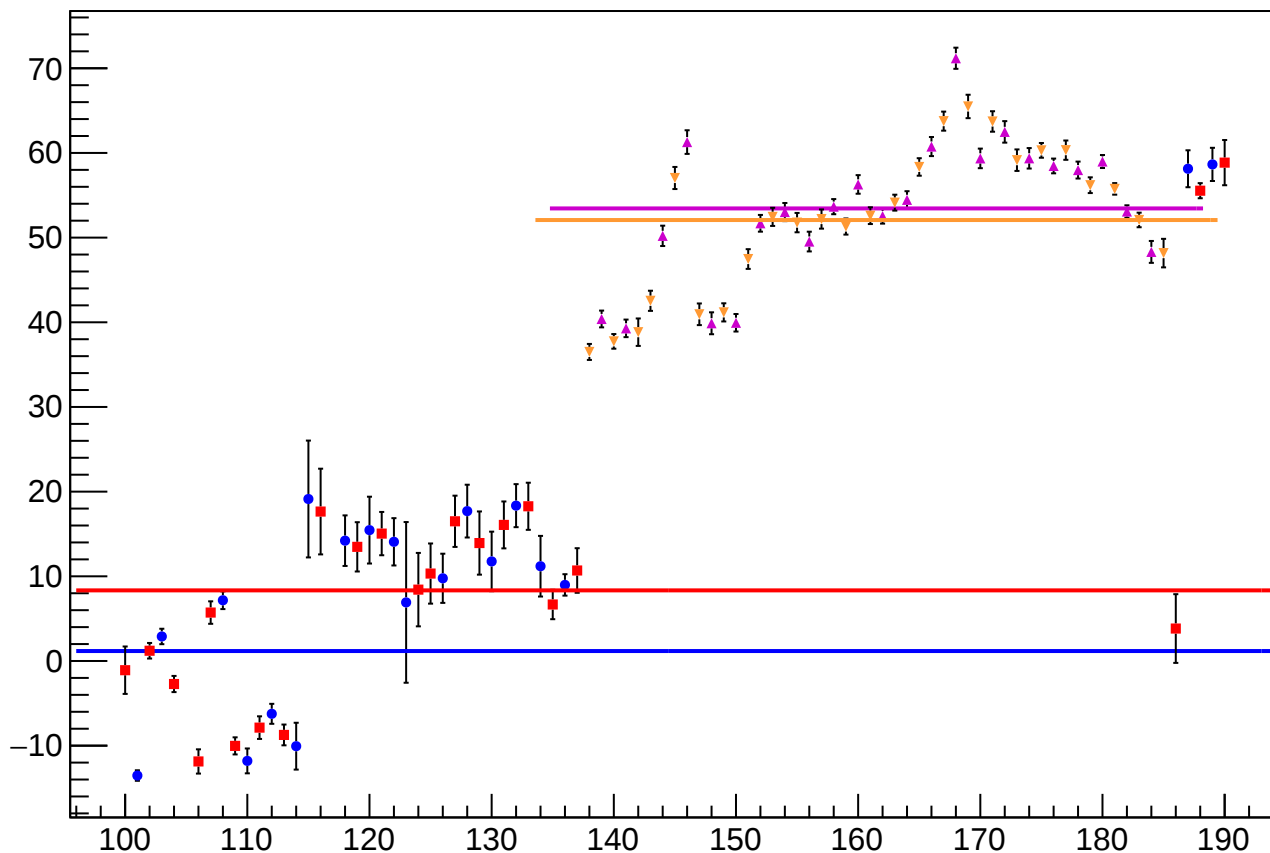
Right: 53.224 $\pm$ 0.153 χ^2 /NDF: 2583.9/40

In: 46.319 $\pm$ 0.134 χ^2 /NDF:4650.9/41

Out: 45.835 $\pm$ 0.133 χ^2 /NDF:4064.2/46

All: 46.076 $\pm$ 0.094 χ^2 /NDF: 8721.6/88

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.175 $\pm$ 0.354 χ^2 /NDF: 2469.7/18

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 8.339 $\pm$ 0.343 χ^2 /NDF: 4279.7/21

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

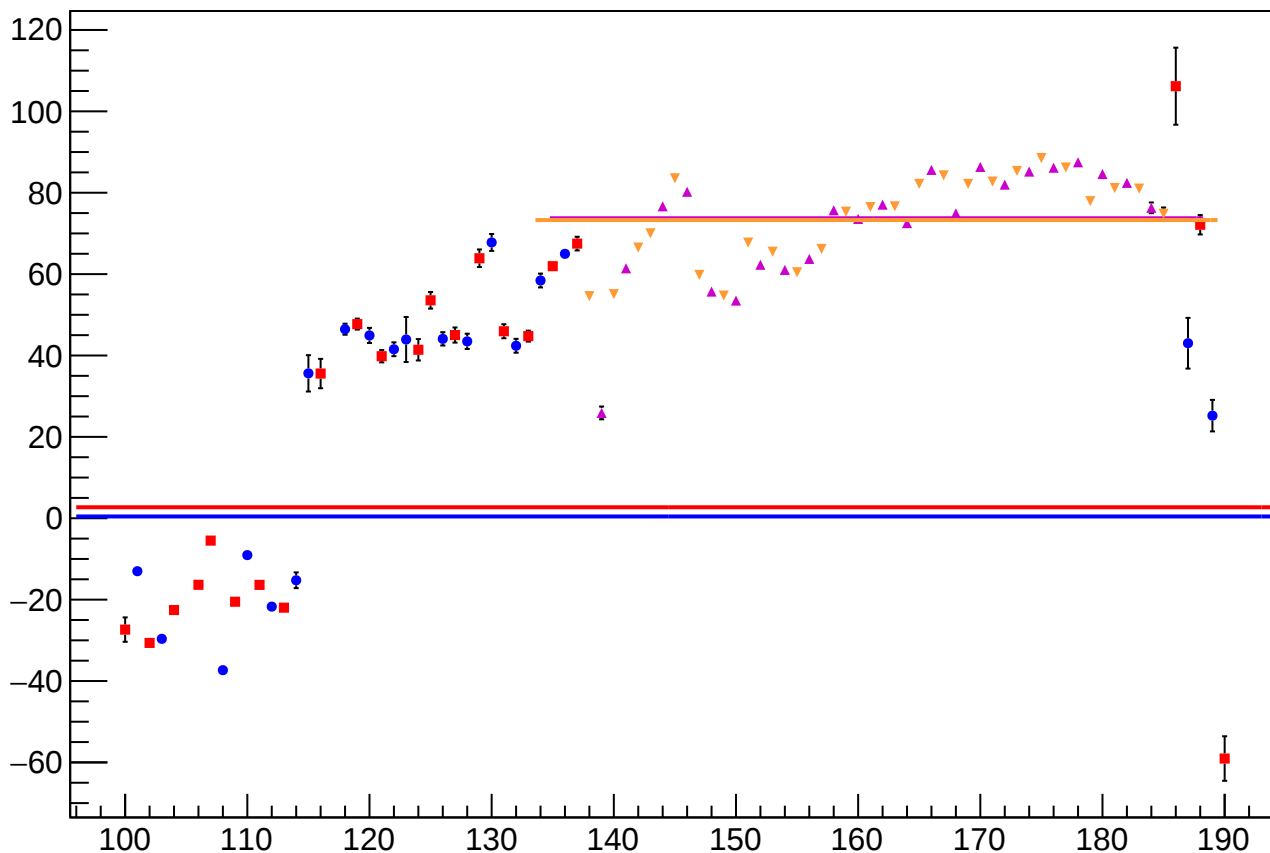
Right: 4.864 $\pm$ 0.246 χ^2 /NDF: 6960.6/40

In: 39.313 $\pm$ 0.184 χ^2 /NDF:19569.9/41

Out: 40.168 $\pm$ 0.179 χ^2 /NDF:17539.9/46

All: 39.752 $\pm$ 0.128 χ^2 /NDF: 37120.9/88

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.444+/-0.247 χ^2/NDF : 18308.1/18

Left Out: 73.284+/-0.187 χ^2/NDF : 3144.2/24

Right Out: 2.703+/-0.265 χ^2/NDF : 16517.9/21

Left In: 73.730+/-0.194 χ^2/NDF : 3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

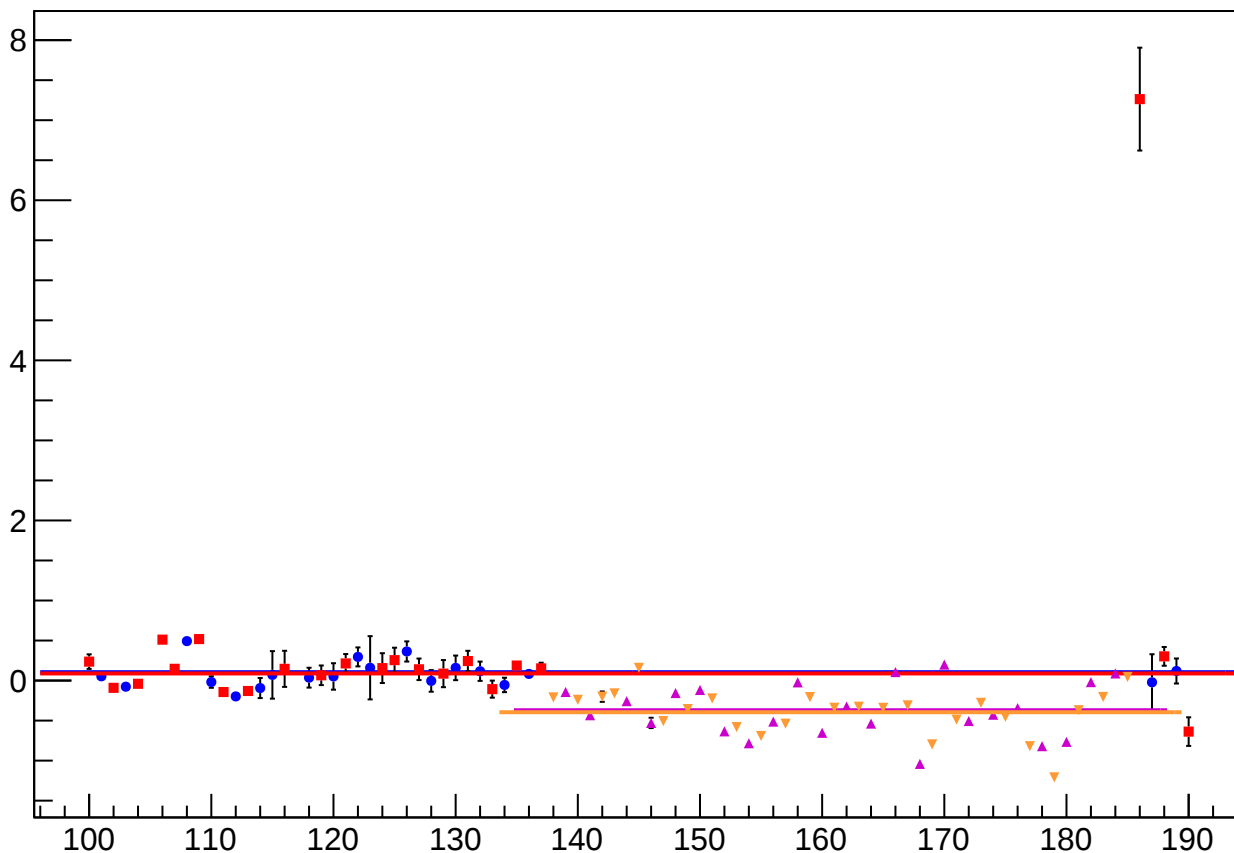
Right: 1.495+/-0.181 χ^2/NDF : 34864.9/40

In: 45.702+/-0.153 χ^2/NDF : 76473.9/41

Out: 49.812+/-0.153 χ^2/NDF : 67114.6/46

All: 47.758+/-0.108 χ^2/NDF : 143950.9/88

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105 ± 0.011 $\chi^2/\text{NDF}: 401.0/18$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: 0.089 ± 0.011 $\chi^2/\text{NDF}: 535.2/21$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

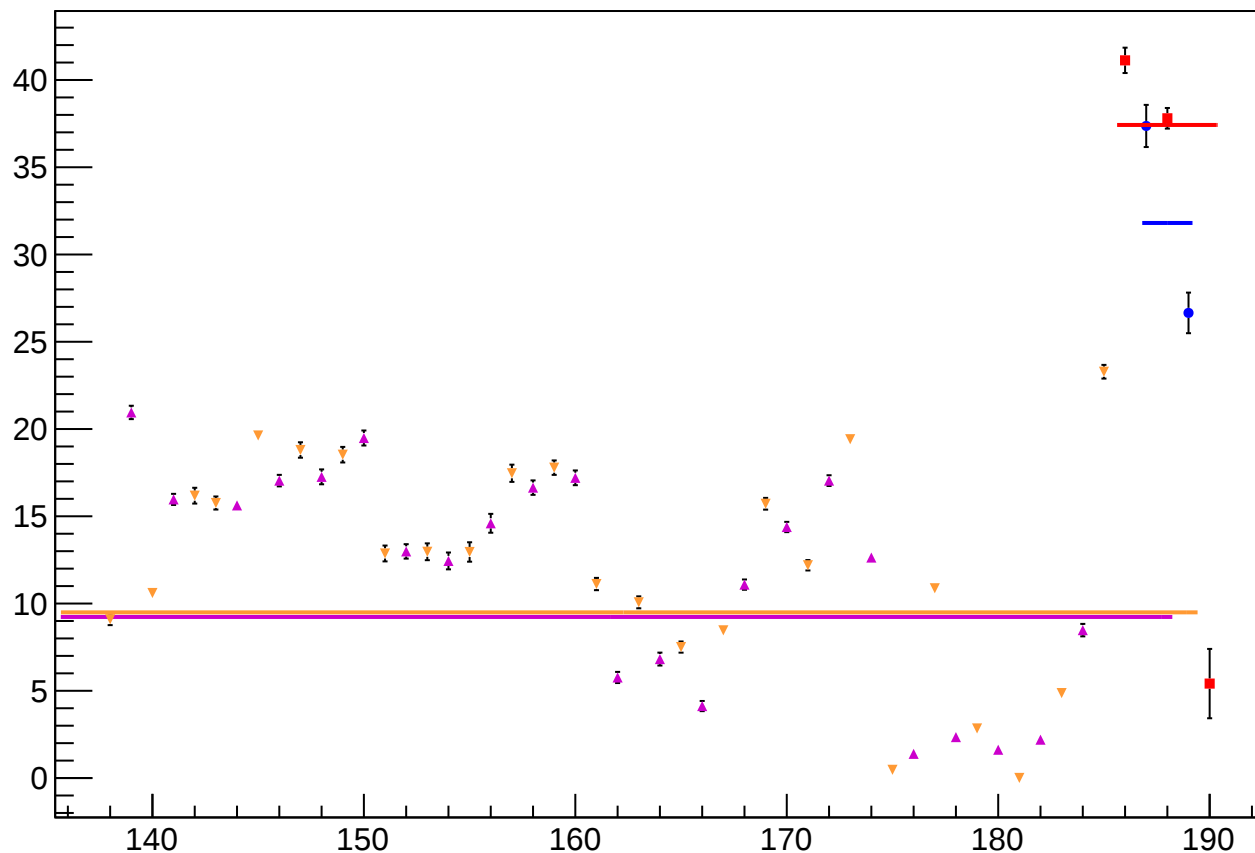
Right: 0.097 ± 0.008 $\chi^2/\text{NDF}: 937.3/40$

In: -0.188 ± 0.007 $\chi^2/\text{NDF}: 2861.7/41$

Out: -0.212 ± 0.007 $\chi^2/\text{NDF}: 2702.9/46$

All: -0.200 ± 0.005 $\chi^2/\text{NDF}: 5571.1/88$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 31.807 ± 0.838 $\chi^2/\text{NDF}: 40.8/1$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 37.423 ± 0.447 $\chi^2/\text{NDF}: 285.9/2$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

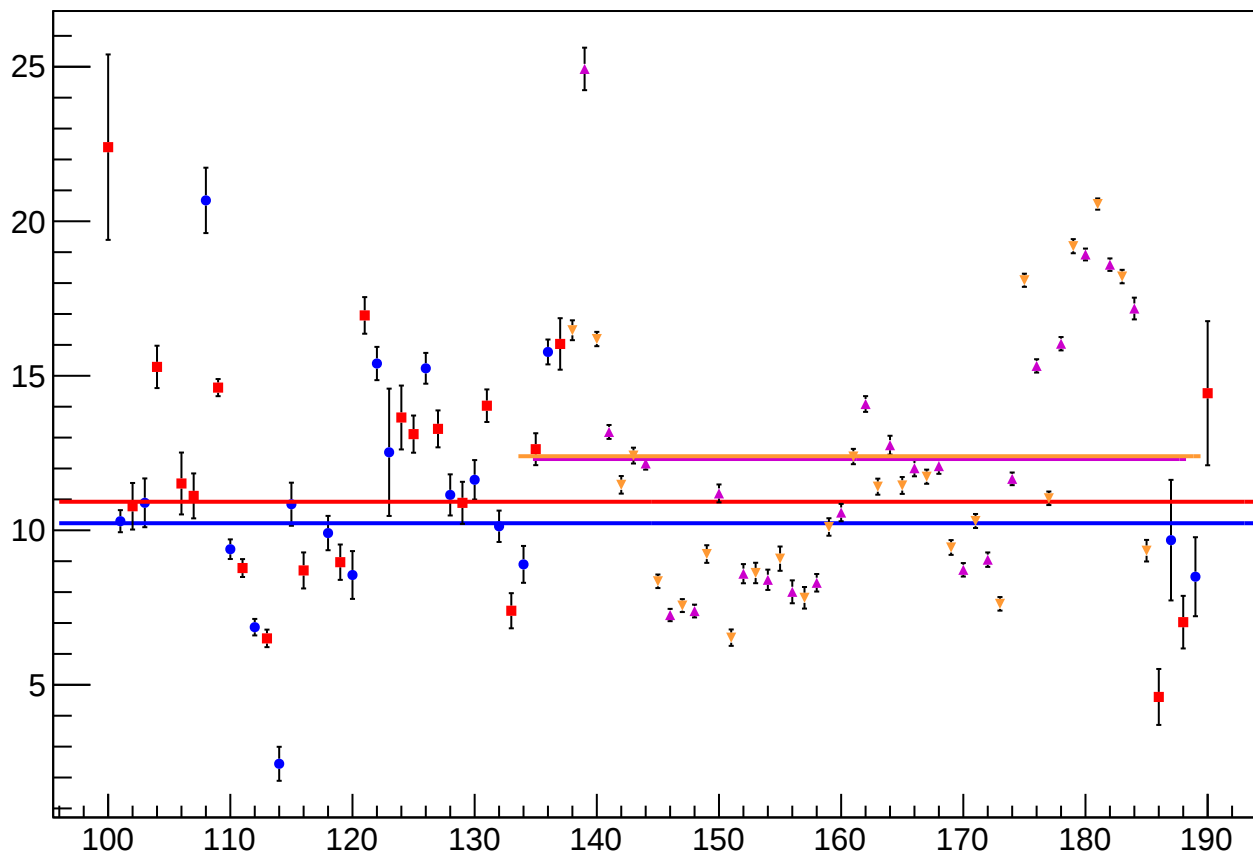
Right: 36.180 ± 0.394 $\chi^2/\text{NDF}: 361.7/4$

In: 9.358 ± 0.063 $\chi^2/\text{NDF}: 11498.8/24$

Out: 10.010 ± 0.061 $\chi^2/\text{NDF}: 16730.9/27$

All: 9.695 ± 0.044 $\chi^2/\text{NDF}: 28285.4/52$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.229 ± 0.119 $\chi^2/\text{NDF}: 868.0/18$

Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$

Right Out: 10.924 ± 0.114 $\chi^2/\text{NDF}: 890.7/21$

Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$

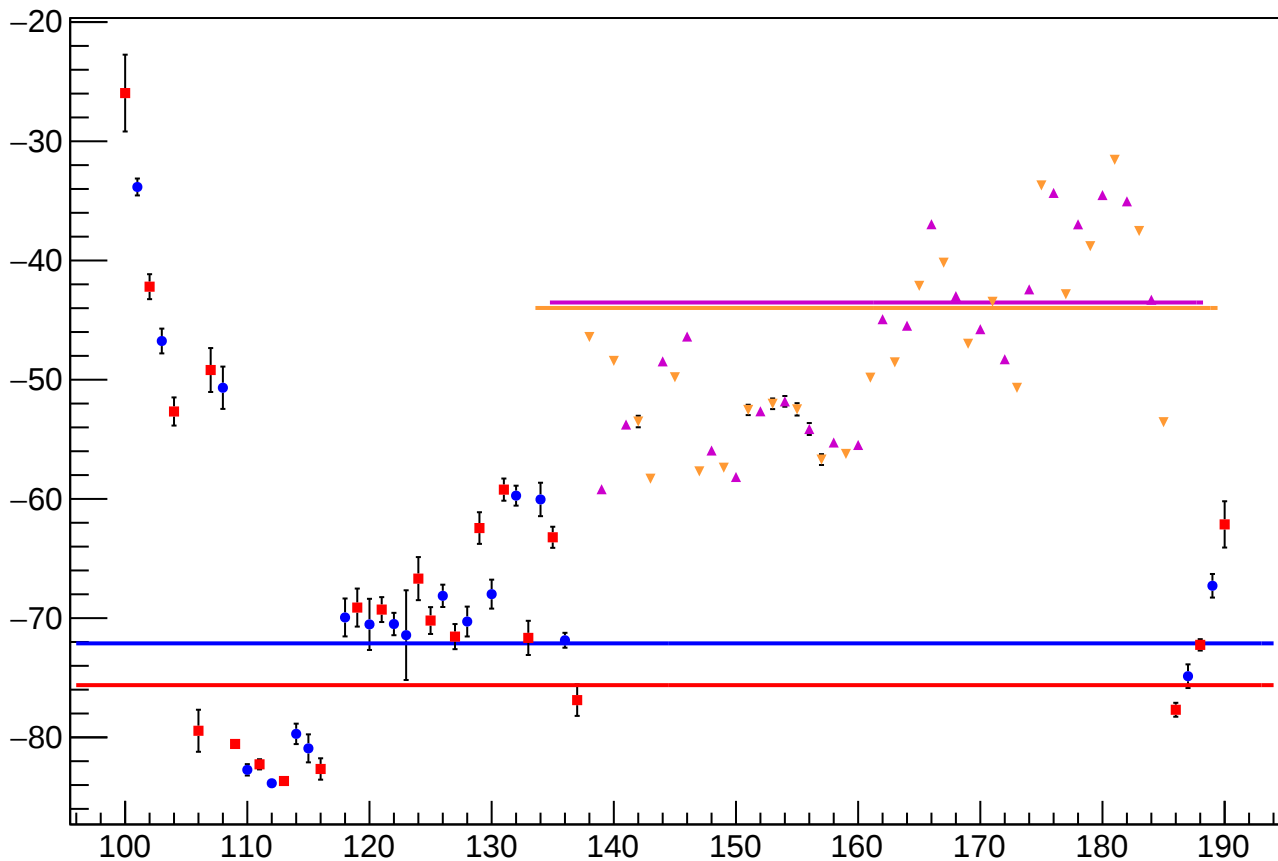
Right: 10.590 ± 0.082 $\chi^2/\text{NDF}: 1776.4/40$

In: 11.982 ± 0.047 $\chi^2/\text{NDF}: 6727.4/41$

Out: 12.163 ± 0.046 $\chi^2/\text{NDF}: 8573.1/46$

All: 12.075 ± 0.033 $\chi^2/\text{NDF}: 15308.2/88$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.116 ± 0.191 χ^2/NDF : 5594.4/18

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -75.621 ± 0.162 χ^2/NDF : 3574.9/21

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

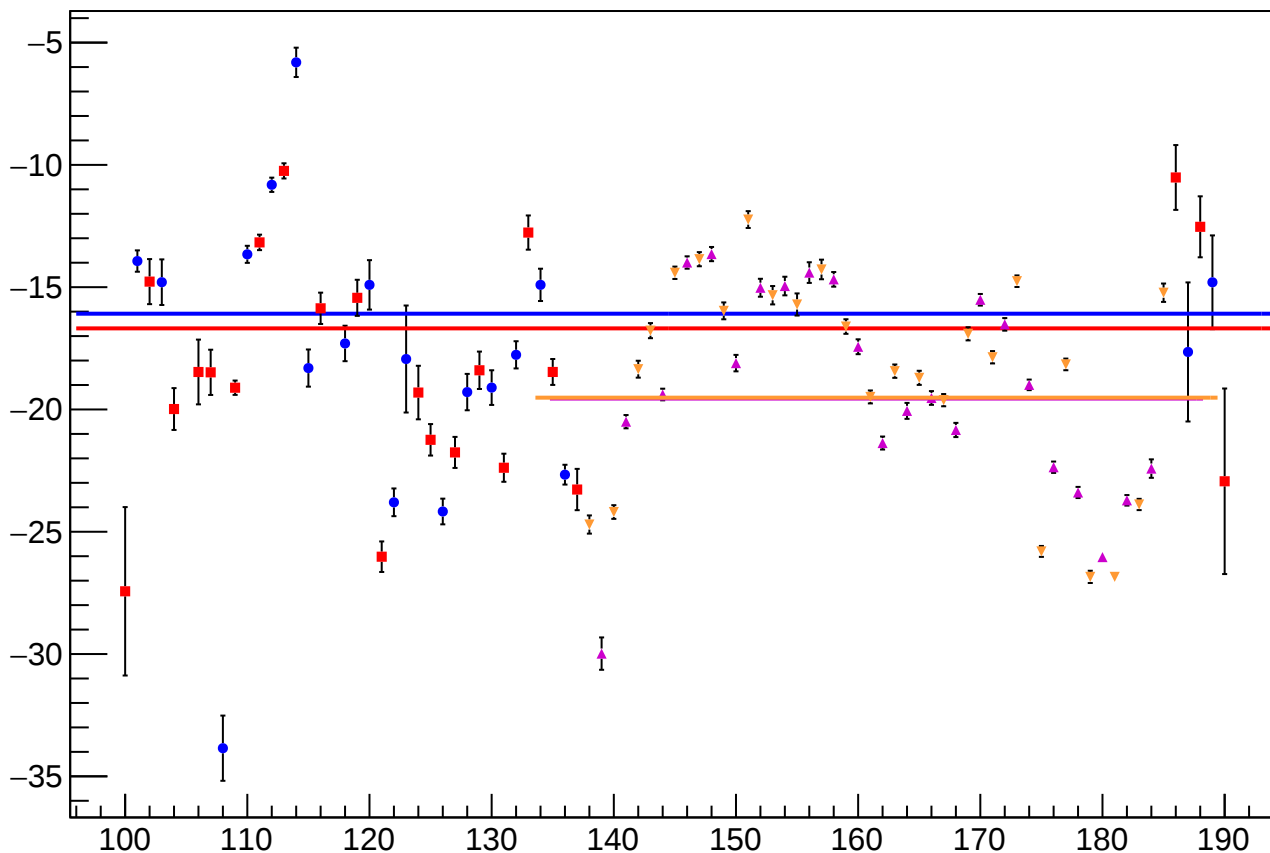
Right: -74.153 ± 0.124 χ^2/NDF : 9365.0/40

In: -46.356 ± 0.060 χ^2/NDF : 41065.5/41

Out: -48.011 ± 0.058 χ^2/NDF : 54548.6/46

All: -47.215 ± 0.042 χ^2/NDF : 96007.8/88

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.084 ± 0.132 χ^2/NDF : 1621.4/18

Left Out: -19.517 ± 0.056 χ^2/NDF : 6518.3/24

Right Out: -16.685 ± 0.127 χ^2/NDF : 1247.3/21

Left In: -19.555 ± 0.057 χ^2/NDF : 4311.2/22

Left: -19.536 ± 0.040 χ^2/NDF : 10829.6/47

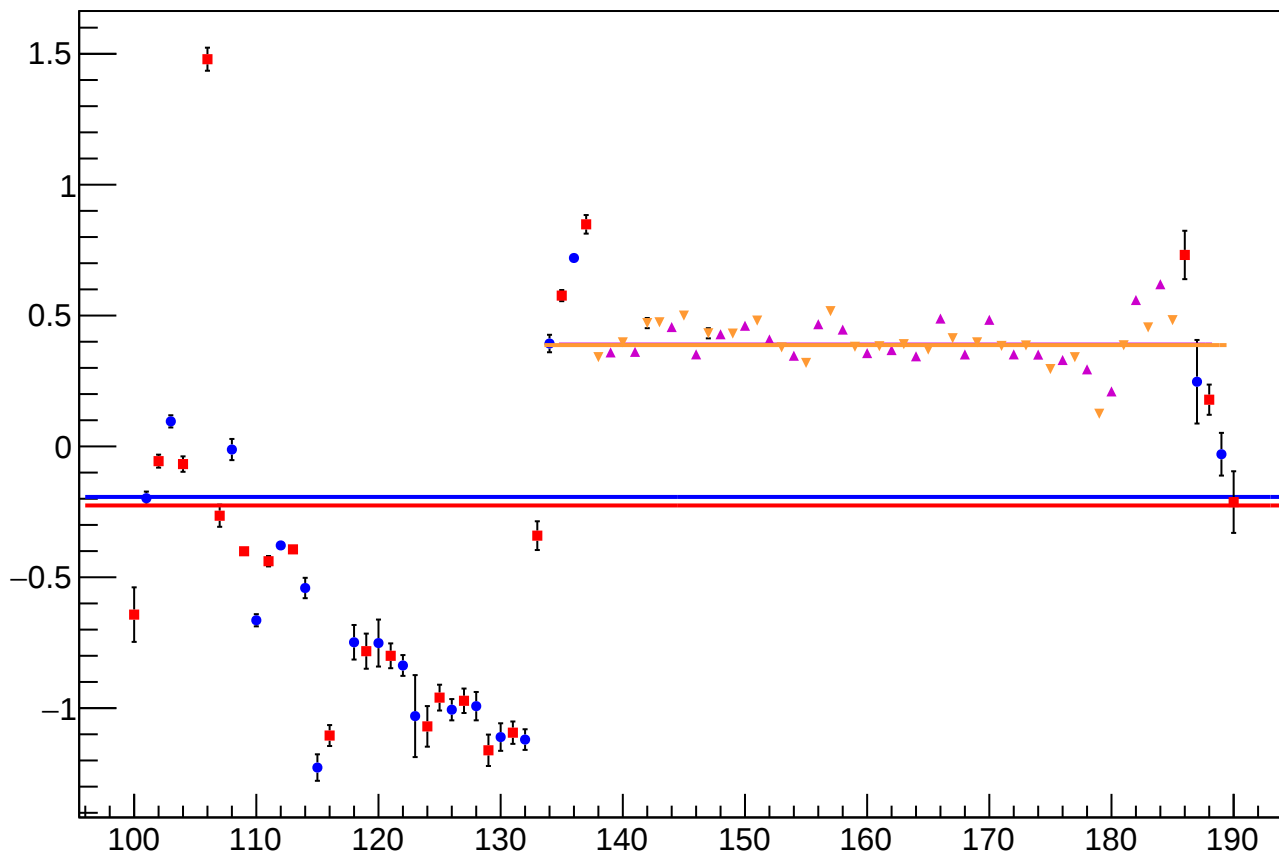
Right: -16.397 ± 0.092 χ^2/NDF : 2879.4/40

In: -19.007 ± 0.053 χ^2/NDF : 6511.4/41

Out: -19.059 ± 0.051 χ^2/NDF : 8182.6/46

All: -19.034 ± 0.037 χ^2/NDF : 14694.5/88

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.193 ± 0.008 χ^2/NDF : 6328.2/18

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.226 ± 0.007 χ^2/NDF : 6335.8/21

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

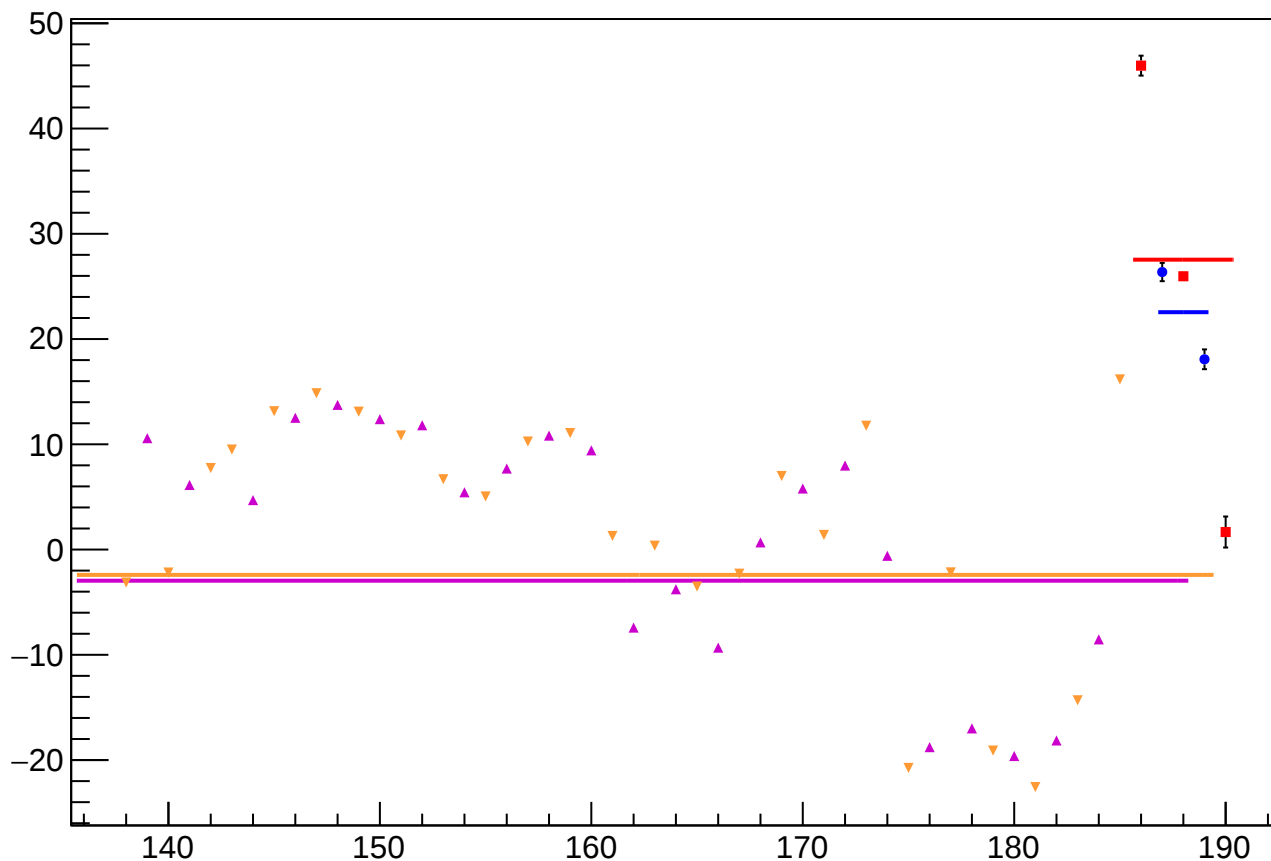
Right: -0.210 ± 0.005 χ^2/NDF : 12673.9/40

In: 0.326 ± 0.002 χ^2/NDF : 12934.7/41

Out: 0.317 ± 0.002 χ^2/NDF : 13930.4/46

All: 0.321 ± 0.002 χ^2/NDF : 26872.8/88

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.552 $\pm$ 0.638 χ^2 /NDF: 42.0/1

Left Out: -2.407 $\pm$ 0.053 χ^2 /NDF: 56368.5/24

Right Out: 27.541 $\pm$ 0.377 χ^2 /NDF: 700.6/2

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

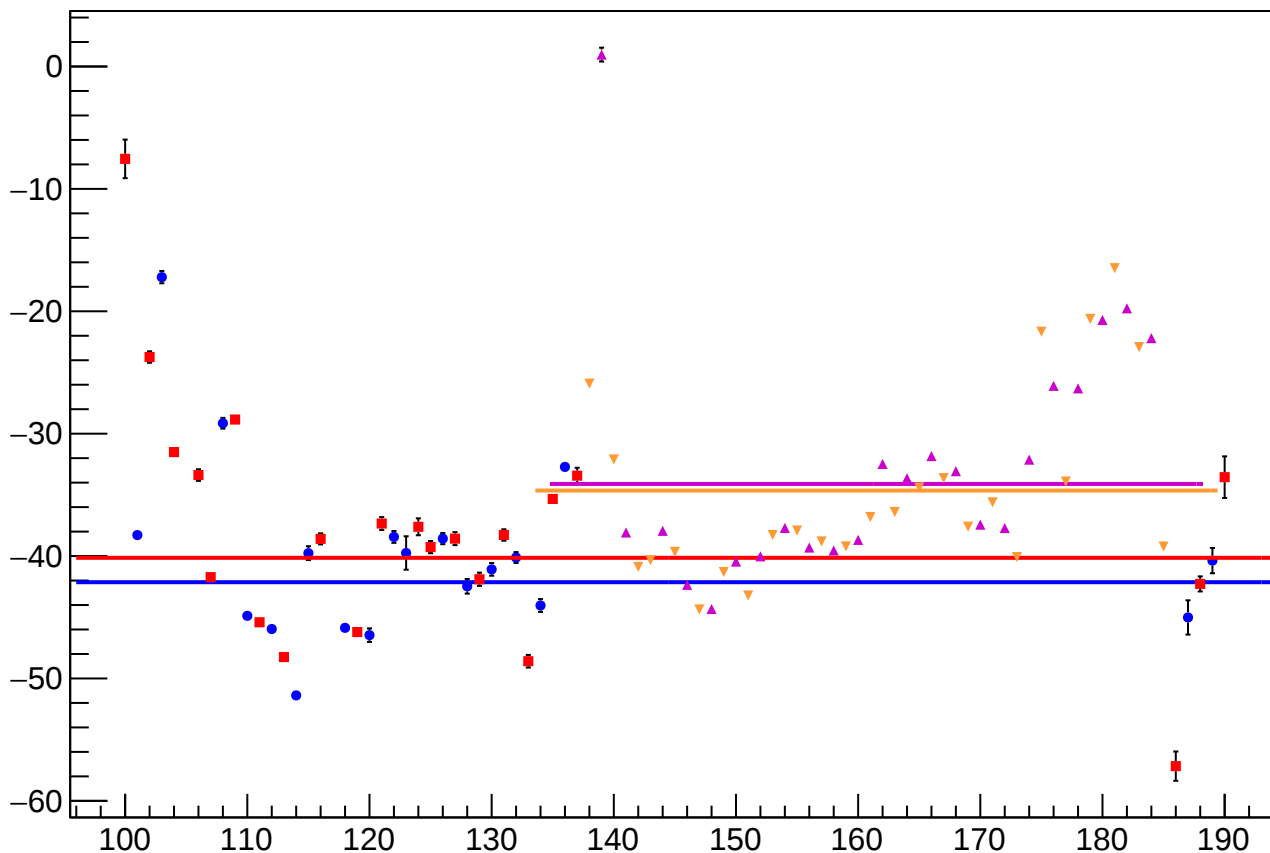
Right: 26.250 $\pm$ 0.324 χ^2 /NDF: 788.0/4

In: -2.772 $\pm$ 0.055 χ^2 /NDF: 47553.1/24

Out: -1.831 $\pm$ 0.052 χ^2 /NDF: 63262.6/27

All: -2.280 $\pm$ 0.038 χ^2 /NDF: 110970.6/52

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -42.135 ± 0.078 $\chi^2/\text{NDF}: 6560.3/18$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -40.142 ± 0.072 $\chi^2/\text{NDF}: 11550.7/21$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

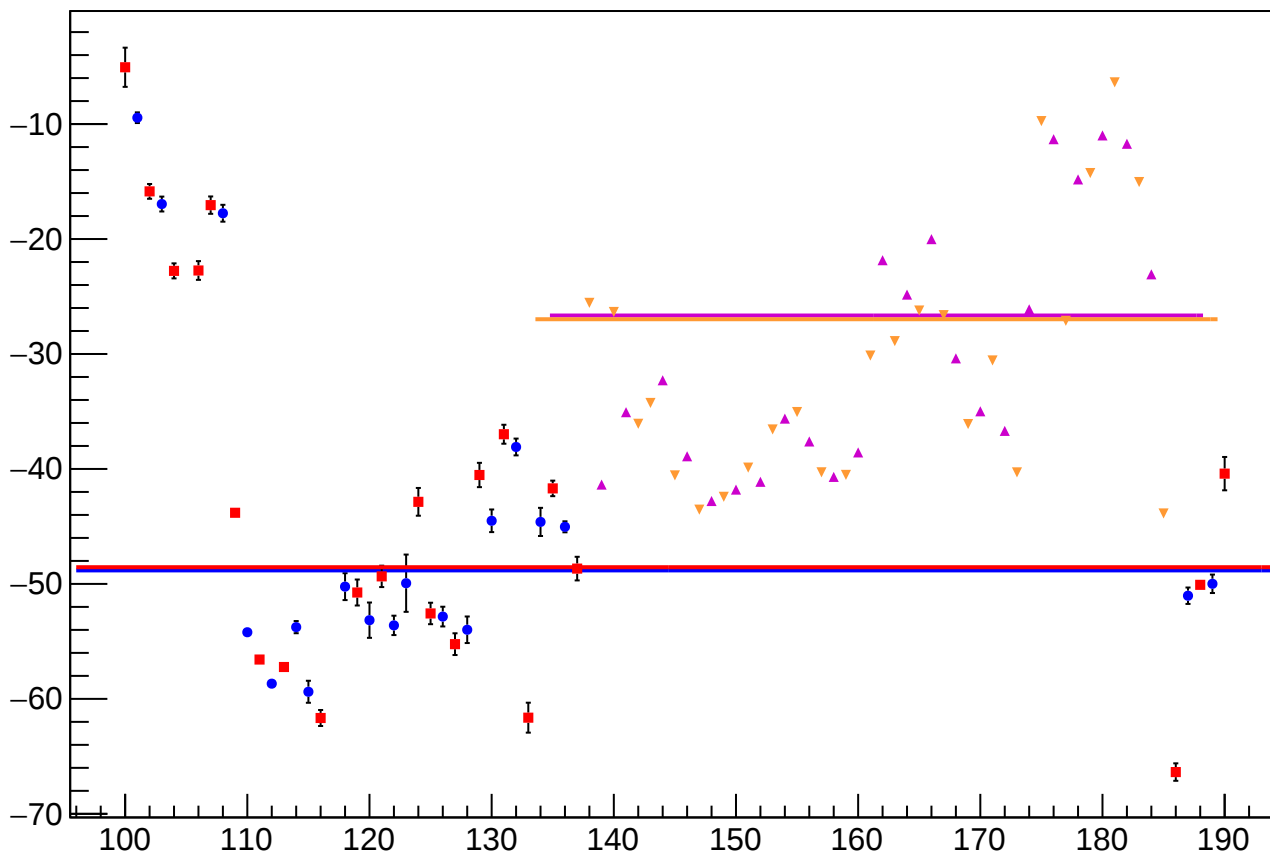
Right: -41.063 ± 0.053 $\chi^2/\text{NDF}: 18463.7/40$

In: -36.050 ± 0.038 $\chi^2/\text{NDF}: 43677.2/41$

Out: -36.027 ± 0.036 $\chi^2/\text{NDF}: 50575.3/46$

All: -36.038 ± 0.026 $\chi^2/\text{NDF}: 94252.7/88$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.825 ± 0.122 $\chi^2/\text{NDF}: 14671.7/18$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -48.547 ± 0.101 $\chi^2/\text{NDF}: 12353.1/21$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

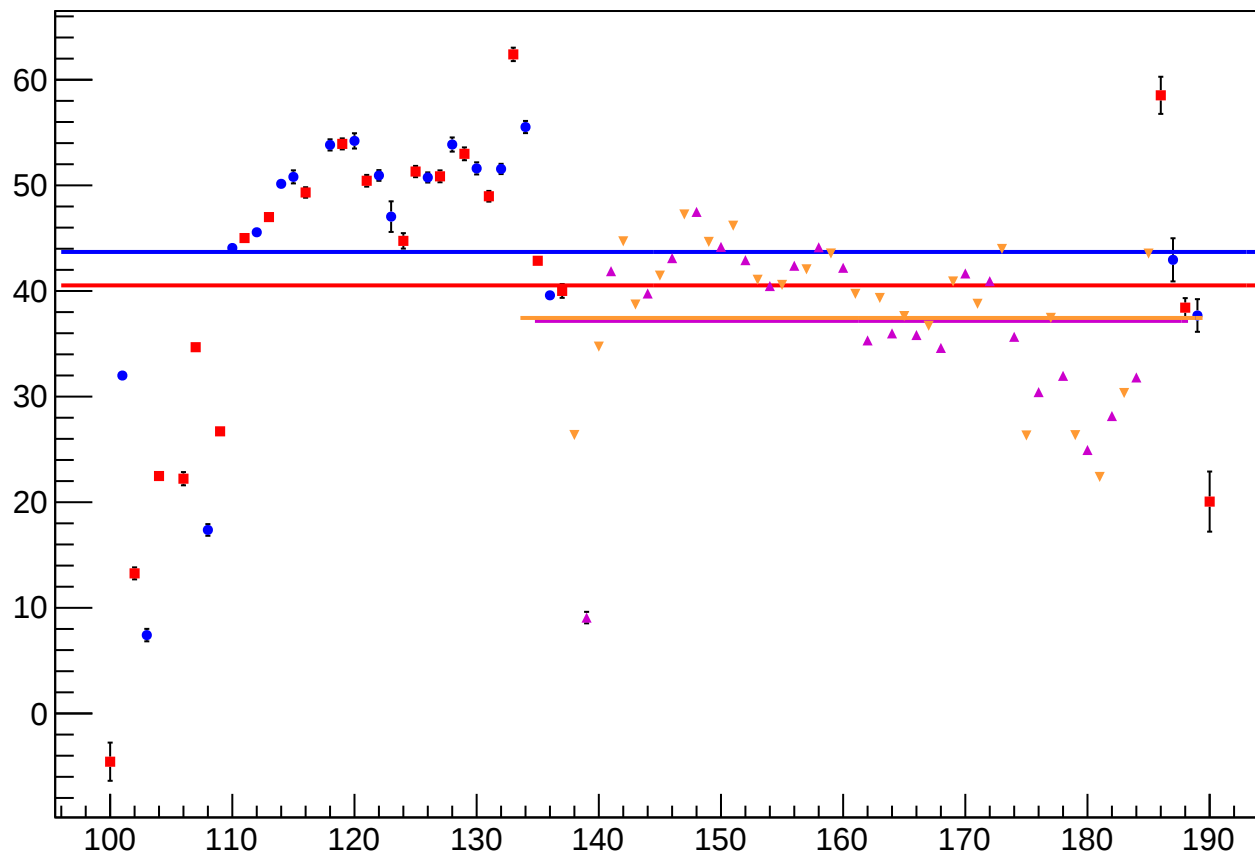
Right: -48.661 ± 0.078 $\chi^2/\text{NDF}: 27027.9/40$

In: -30.415 ± 0.050 $\chi^2/\text{NDF}: 84409.0/41$

Out: -31.640 ± 0.047 $\chi^2/\text{NDF}: 97258.5/46$

All: -31.065 ± 0.034 $\chi^2/\text{NDF}: 181985.2/88$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.696 $\pm$ 0.087 χ^2 /NDF: 10579.6/18

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 40.529 $\pm$ 0.080 χ^2 /NDF: 17740.5/21

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

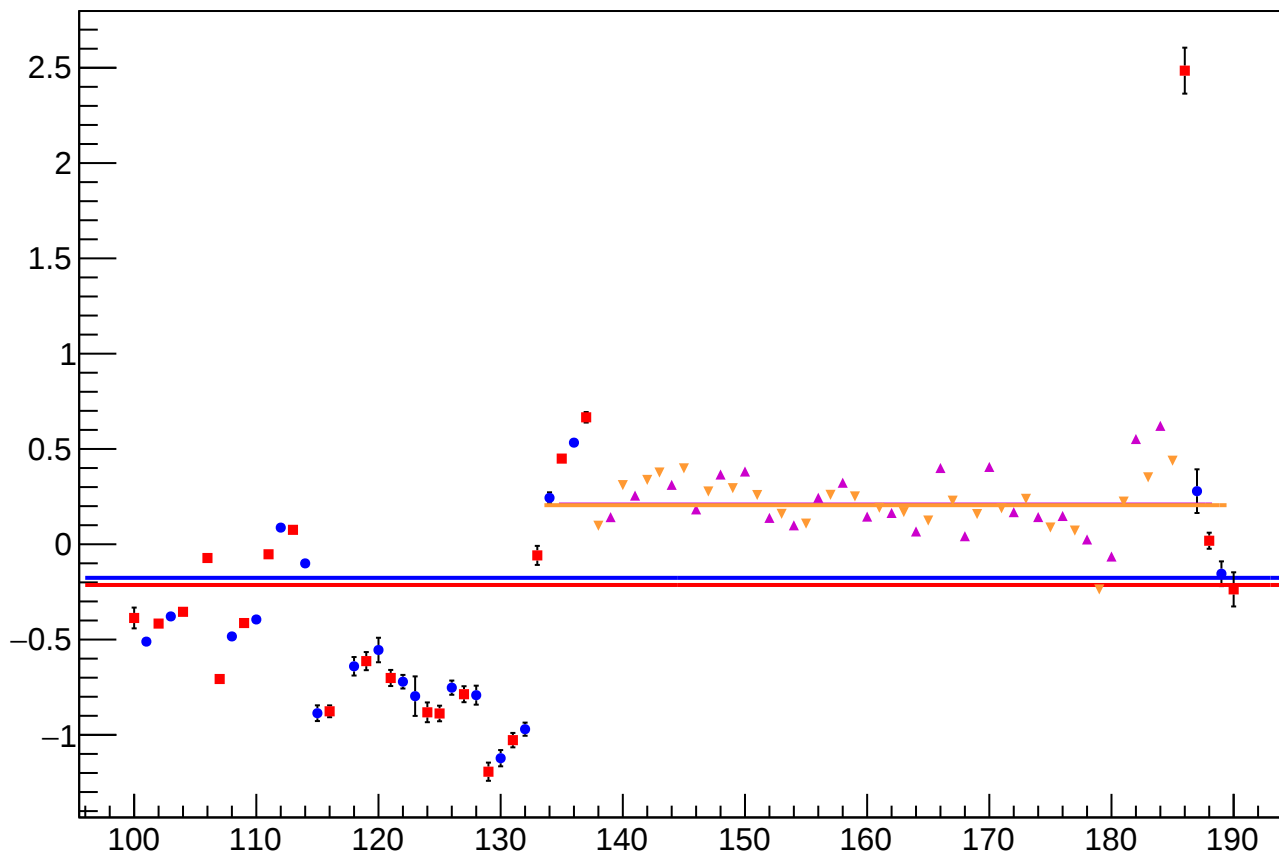
Right: 41.980 $\pm$ 0.059 χ^2 /NDF: 29041.1/40

In: 38.759 $\pm$ 0.043 χ^2 /NDF:32091.5/41

Out: 38.244 $\pm$ 0.041 χ^2 /NDF:40416.9/46

All: 38.488 $\pm$ 0.029 χ^2 /NDF: 72584.5/88

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.176 ± 0.005 χ^2/NDF : 7369.4/18

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.214 ± 0.004 χ^2/NDF : 7950.4/21

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

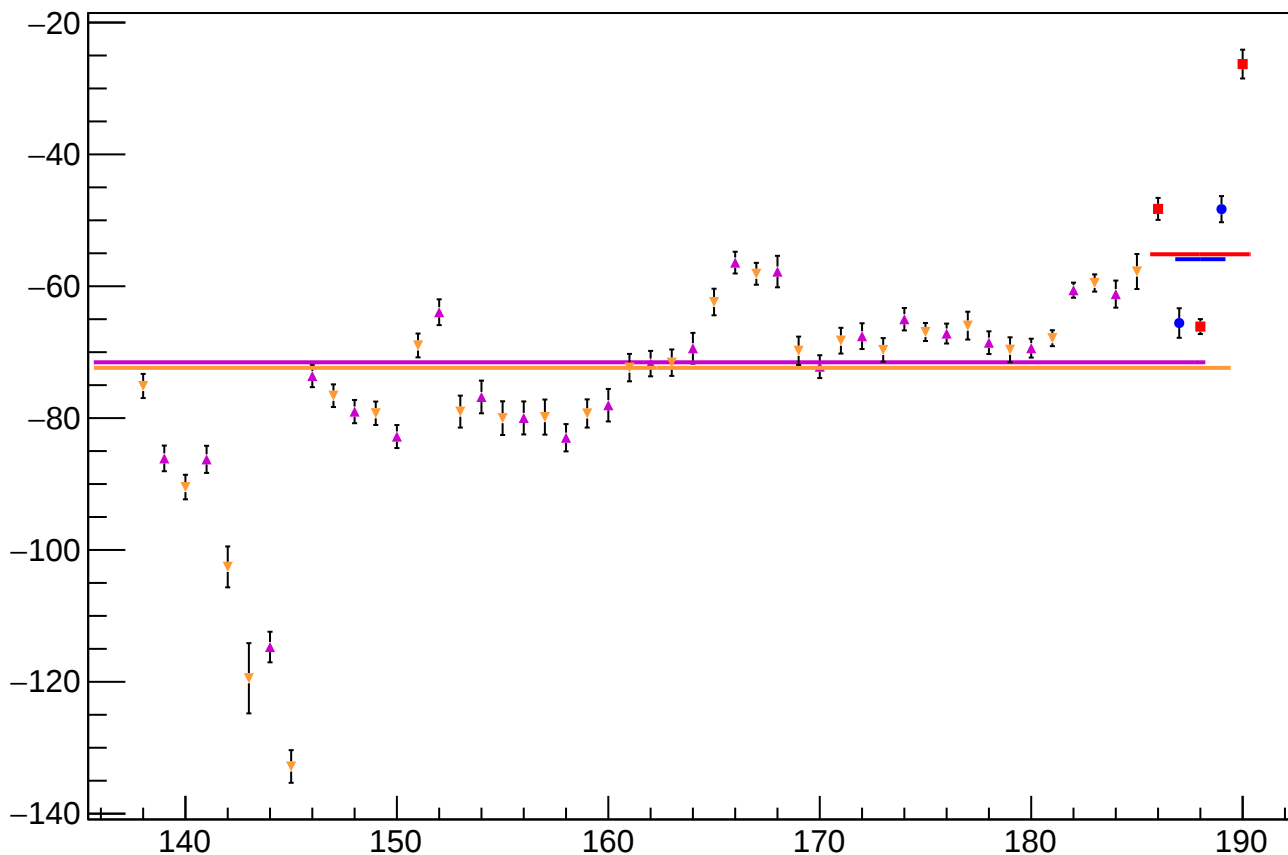
Right: -0.197 ± 0.003 χ^2/NDF : 15353.5/40

In: 0.140 ± 0.002 χ^2/NDF : 17679.1/41

Out: 0.119 ± 0.002 χ^2/NDF : 19397.2/46

All: 0.129 ± 0.001 χ^2/NDF : 37132.4/88

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

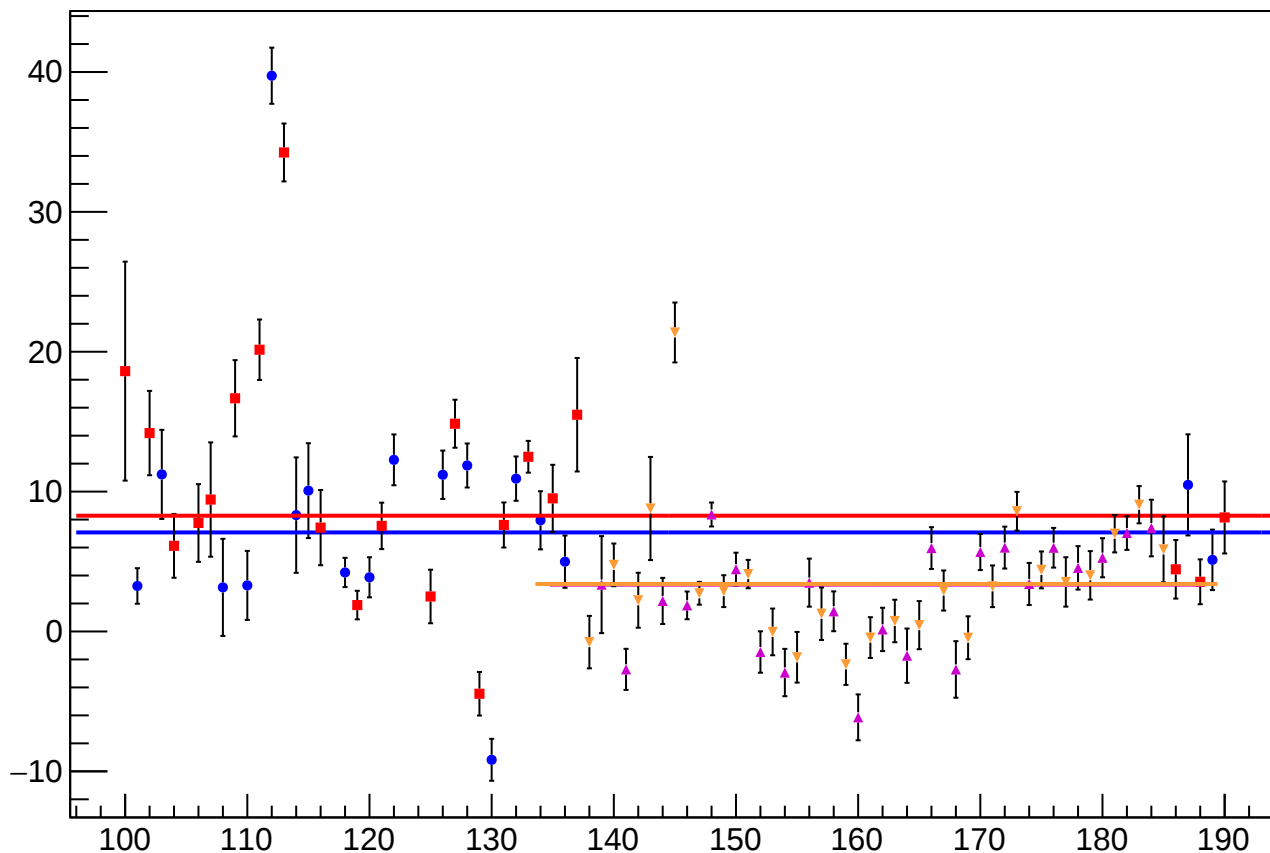


Right In: -55.899 $\pm$ 1.485 χ^2 /NDF: 33.3/1
 Left Out: -72.381 $\pm$ 0.382 χ^2 /NDF:1199.9/24
 Right Out: -55.150 $\pm$ 0.862 χ^2 /NDF: 284.7/2
 Left In: -71.534 $\pm$ 0.382 χ^2 /NDF:851.4/22

Left: -71.957 $\pm$ 0.270 χ^2 /NDF: 2053.7/47
 Right: -55.339 $\pm$ 0.745 χ^2 /NDF: 318.2/4
 In: -70.565 $\pm$ 0.370 χ^2 /NDF:988.8/24
 Out: -69.554 $\pm$ 0.349 χ^2 /NDF:1818.7/27

All: -70.030 $\pm$ 0.254 χ^2 /NDF: 2811.4/52

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.081 $\pm$ 0.428 χ^2 /NDF: 442.1/17

Left Out: 3.392 $\pm$ 0.294 χ^2 /NDF:169.9/24

Right Out: 8.275 $\pm$ 0.417 χ^2 /NDF: 363.2/20

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

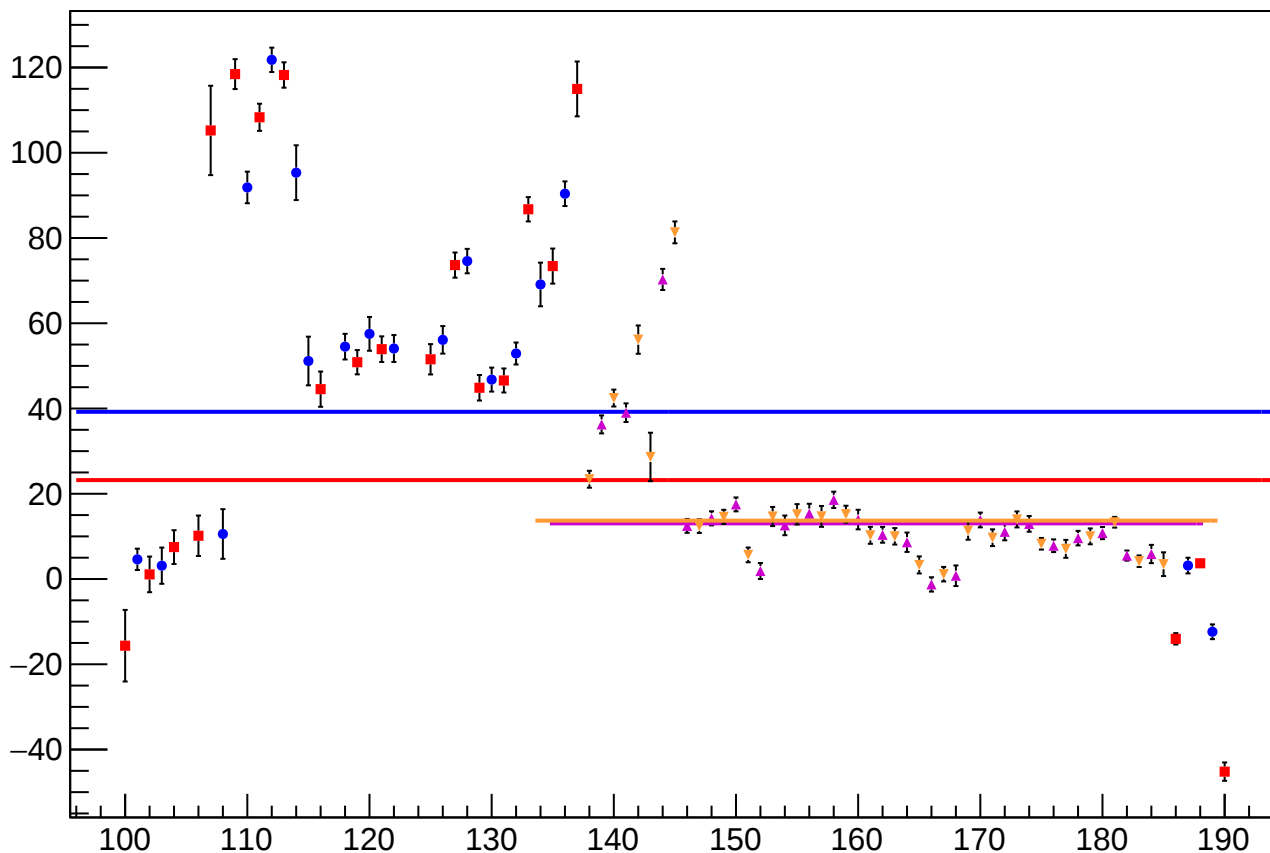
Right: 7.693 $\pm$ 0.299 χ^2 /NDF: 809.3/38

In: 4.567 $\pm$ 0.245 χ^2 /NDF:656.8/40

Out: 5.009 $\pm$ 0.240 χ^2 /NDF:624.5/45

All: 4.792 $\pm$ 0.171 χ^2 /NDF: 1283.0/86

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 39.225+/-0.698 χ^2 /NDF: 3310.7/17

Left Out: 13.700+/-0.381 χ^2 /NDF:1307.0/24

Right Out: 23.204+/-0.545 χ^2 /NDF: 6391.0/20

Left In: 13.058+/-0.380 χ^2 /NDF:1024.7/22

Left: 13.378+/-0.269 χ^2 /NDF: 2333.1/47

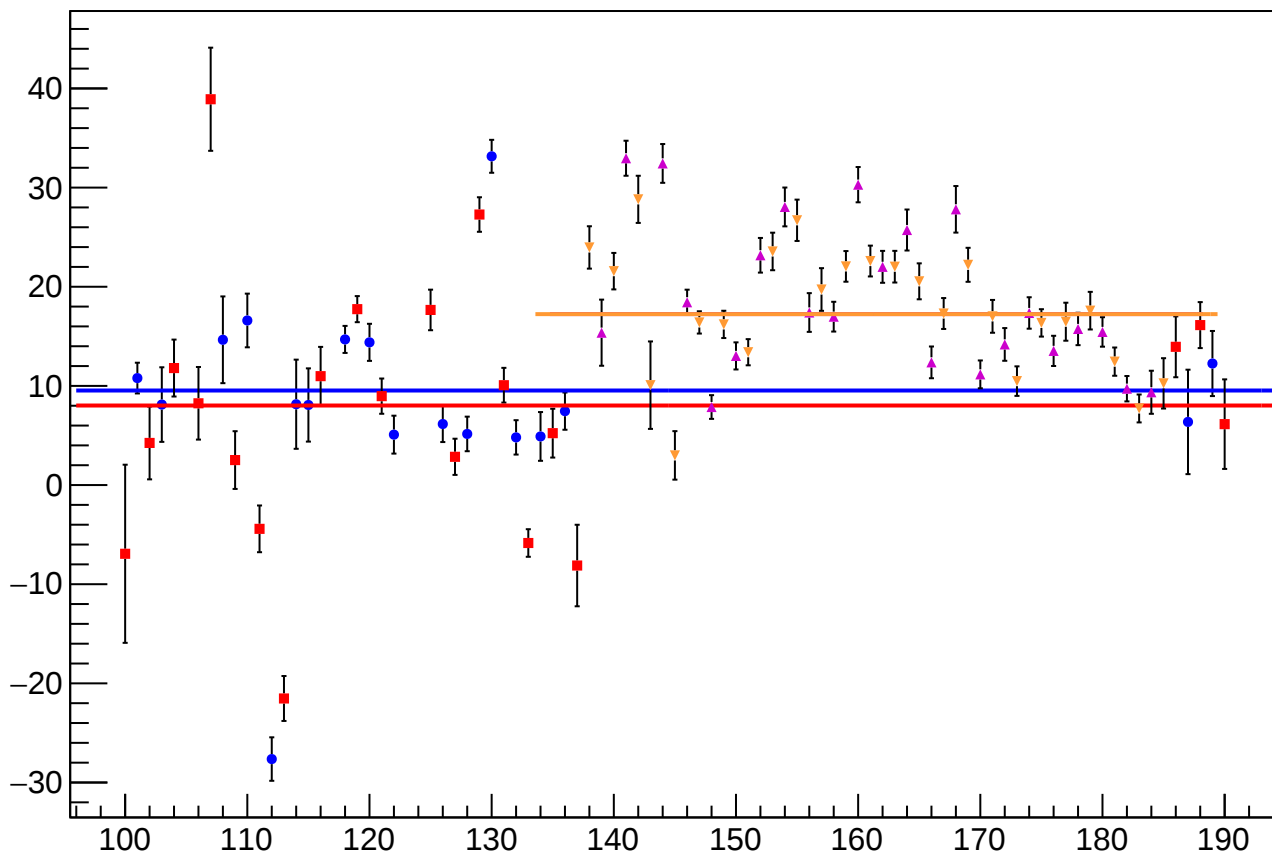
Right: 29.267+/-0.430 χ^2 /NDF: 10028.9/38

In: 19.031+/-0.334 χ^2 /NDF:5419.3/40

Out: 16.820+/-0.312 χ^2 /NDF:7902.3/45

All: 17.852+/-0.228 χ^2 /NDF: 13345.0/86

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.535 ± 0.499 $\chi^2/\text{NDF}: 548.3/17$

Left Out: 17.238 ± 0.336 $\chi^2/\text{NDF}: 246.5/24$

Right Out: 8.022 ± 0.494 $\chi^2/\text{NDF}: 584.1/20$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.241 ± 0.239 $\chi^2/\text{NDF}: 687.3/47$

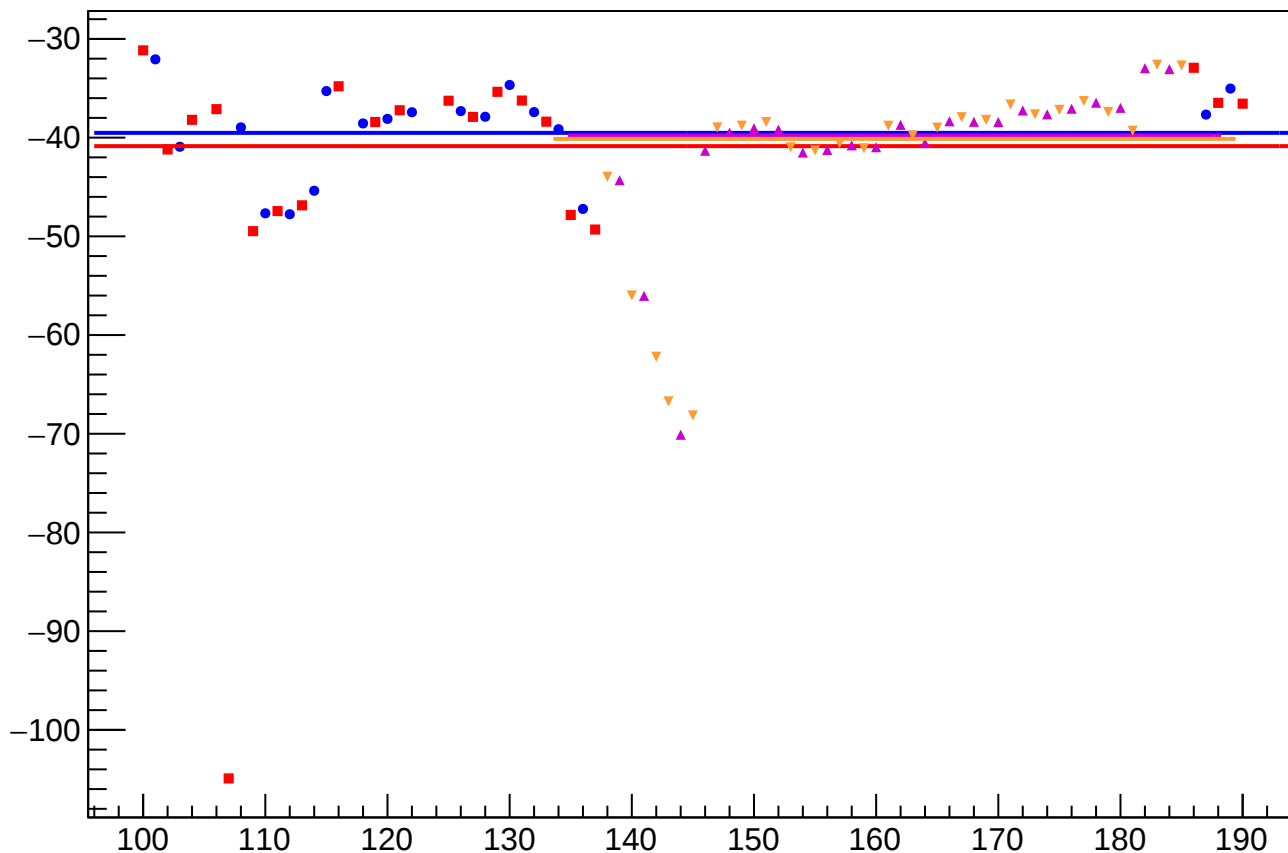
Right: 8.770 ± 0.351 $\chi^2/\text{NDF}: 1137.1/38$

In: 14.809 ± 0.281 $\chi^2/\text{NDF}: 1152.1/40$

Out: 14.321 ± 0.278 $\chi^2/\text{NDF}: 1068.6/45$

All: 14.563 ± 0.197 $\chi^2/\text{NDF}: 2222.2/86$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.517 ± 0.030 χ^2/NDF : 27375.6/17

Left Out: -40.126 ± 0.016 χ^2/NDF : 185897.0/24

Right Out: -40.861 ± 0.029 χ^2/NDF : 99136.9/20

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.955 ± 0.011 χ^2/NDF : 330628.3/47

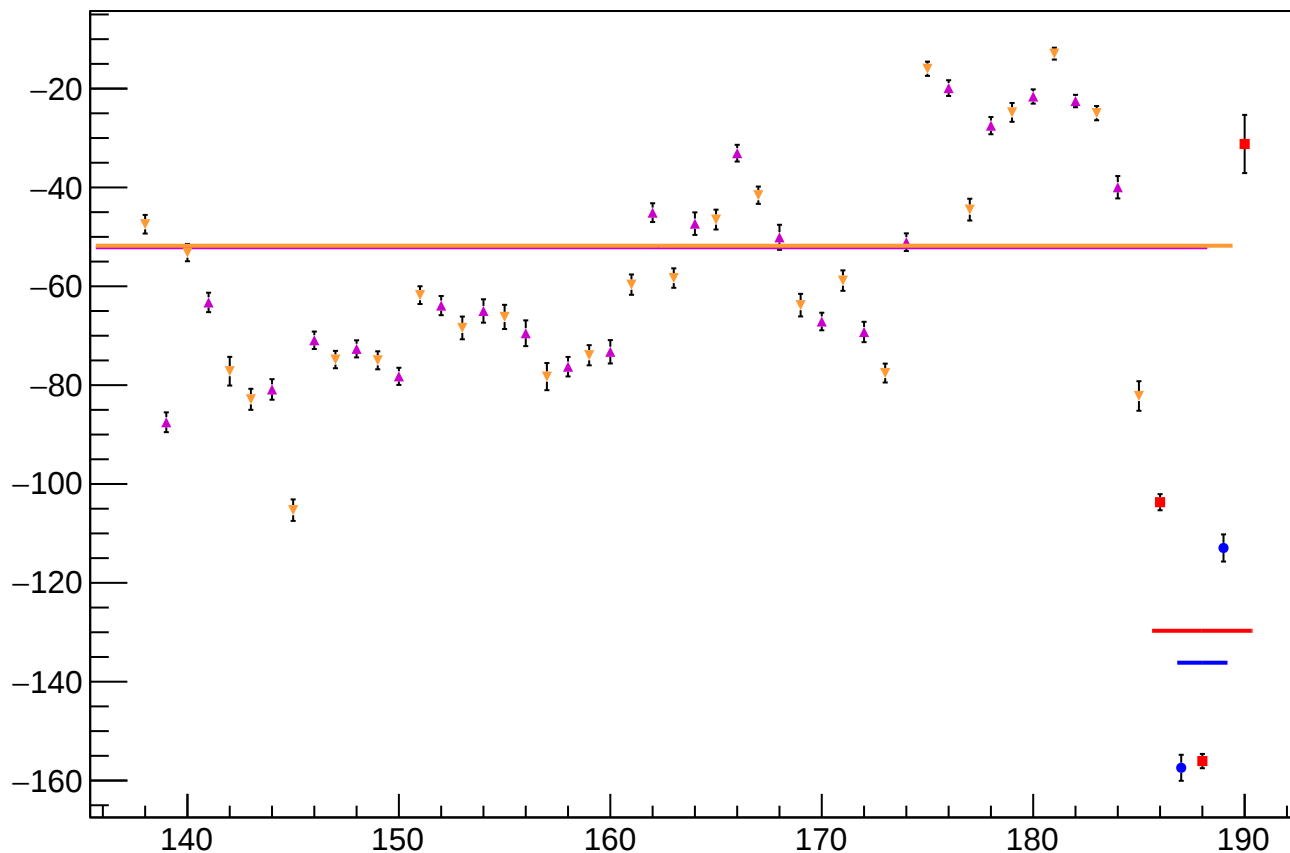
Right: -40.218 ± 0.021 χ^2/NDF : 127541.4/38

In: -39.728 ± 0.014 χ^2/NDF : 171931.8/40

Out: -40.293 ± 0.014 χ^2/NDF : 285531.4/45

All: -40.012 ± 0.010 χ^2/NDF : 458293.3/86

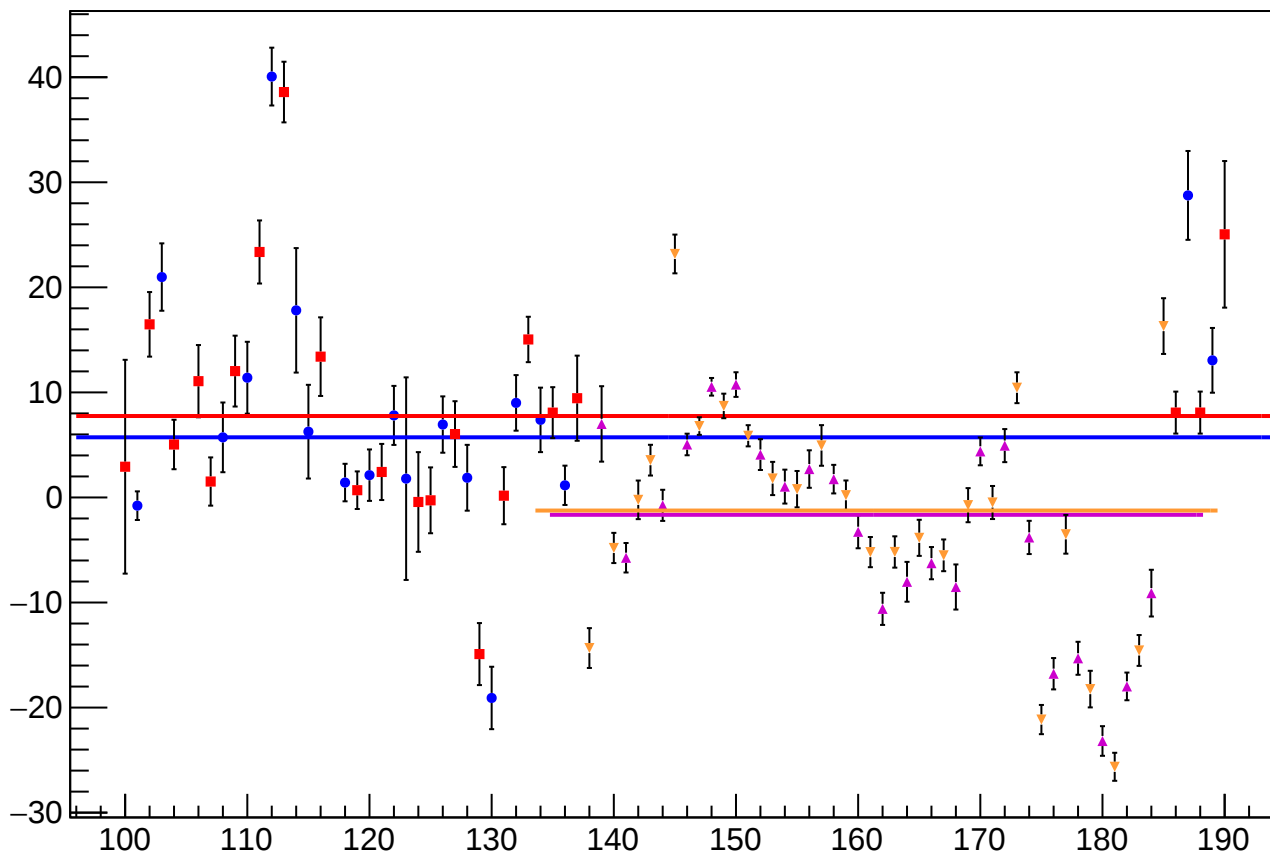
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -136.157 ± 1.901 χ^2/NDF : 136.6/1
 Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24
 Right Out: -129.699 ± 1.064 χ^2/NDF : 866.5/2
 Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47
 Right: -131.240 ± 0.929 χ^2/NDF : 1011.9/4
 In: -55.476 ± 0.381 χ^2/NDF : 5293.0/24
 Out: -60.706 ± 0.360 χ^2/NDF : 9777.7/27
 All: -58.237 ± 0.262 χ^2/NDF : 15170.3/52

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.725 ± 0.610 χ^2/NDF : 331.3/18

Left Out: -1.245 ± 0.292 χ^2/NDF : 1322.6/24

Right Out: 7.752 ± 0.589 χ^2/NDF : 276.8/21

Left In: -1.650 ± 0.300 χ^2/NDF : 1092.2/22

Left: -1.442 ± 0.209 χ^2/NDF : 2415.8/47

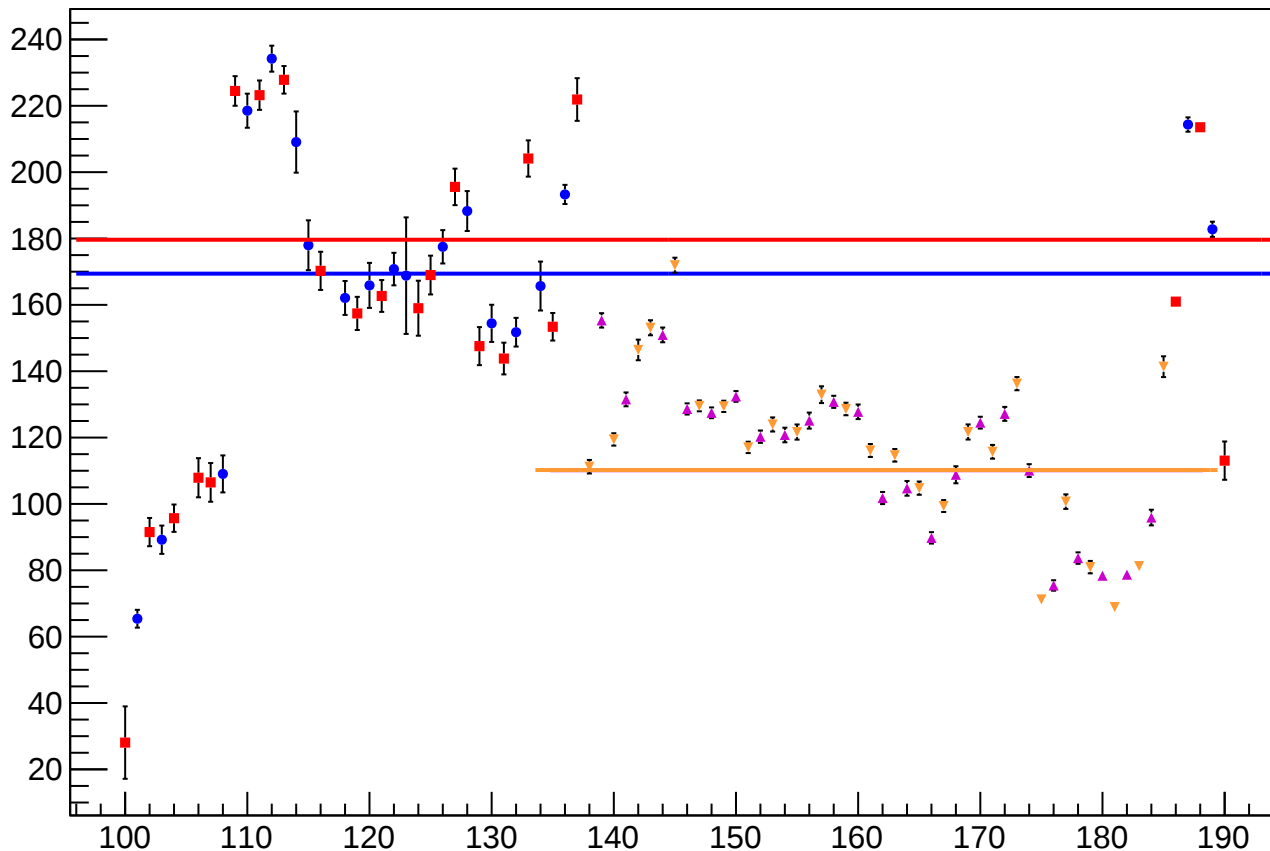
Right: 6.773 ± 0.424 χ^2/NDF : 613.9/40

In: -0.211 ± 0.269 χ^2/NDF : 1541.4/41

Out: 0.525 ± 0.261 χ^2/NDF : 1786.7/46

All: 0.168 ± 0.188 χ^2/NDF : 3331.9/88

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 169.409 $\pm$ 0.929 χ^2 /NDF: 2929.0/18

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 179.628 $\pm$ 0.693 χ^2 /NDF: 3106.8/21

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

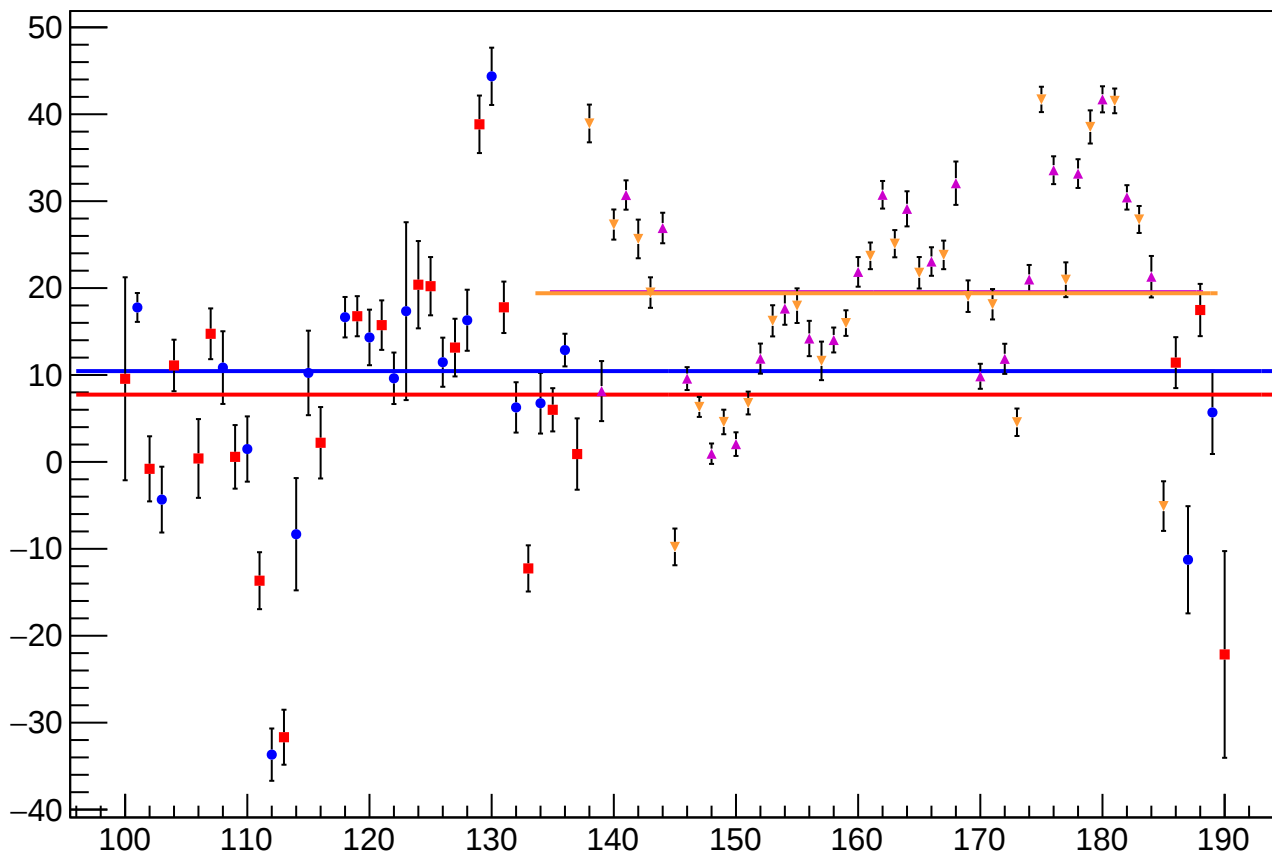
Right: 175.973 $\pm$ 0.556 χ^2 /NDF: 6113.4/40

In: 118.886 $\pm$ 0.356 χ^2 /NDF:10096.8/41

Out: 126.377 $\pm$ 0.335 χ^2 /NDF:15388.0/46

All: 122.868 $\pm$ 0.244 χ^2 /NDF: 25719.6/88

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.448 $\pm$ 0.708 χ^2 /NDF: 400.0/18

Left Out: 19.405 $\pm$ 0.335 χ^2 /NDF:1453.4/24

Right Out: 7.742 $\pm$ 0.704 χ^2 /NDF: 442.7/21

Left In: 19.530 $\pm$ 0.342 χ^2 /NDF:1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2 /NDF: 2634.8/47

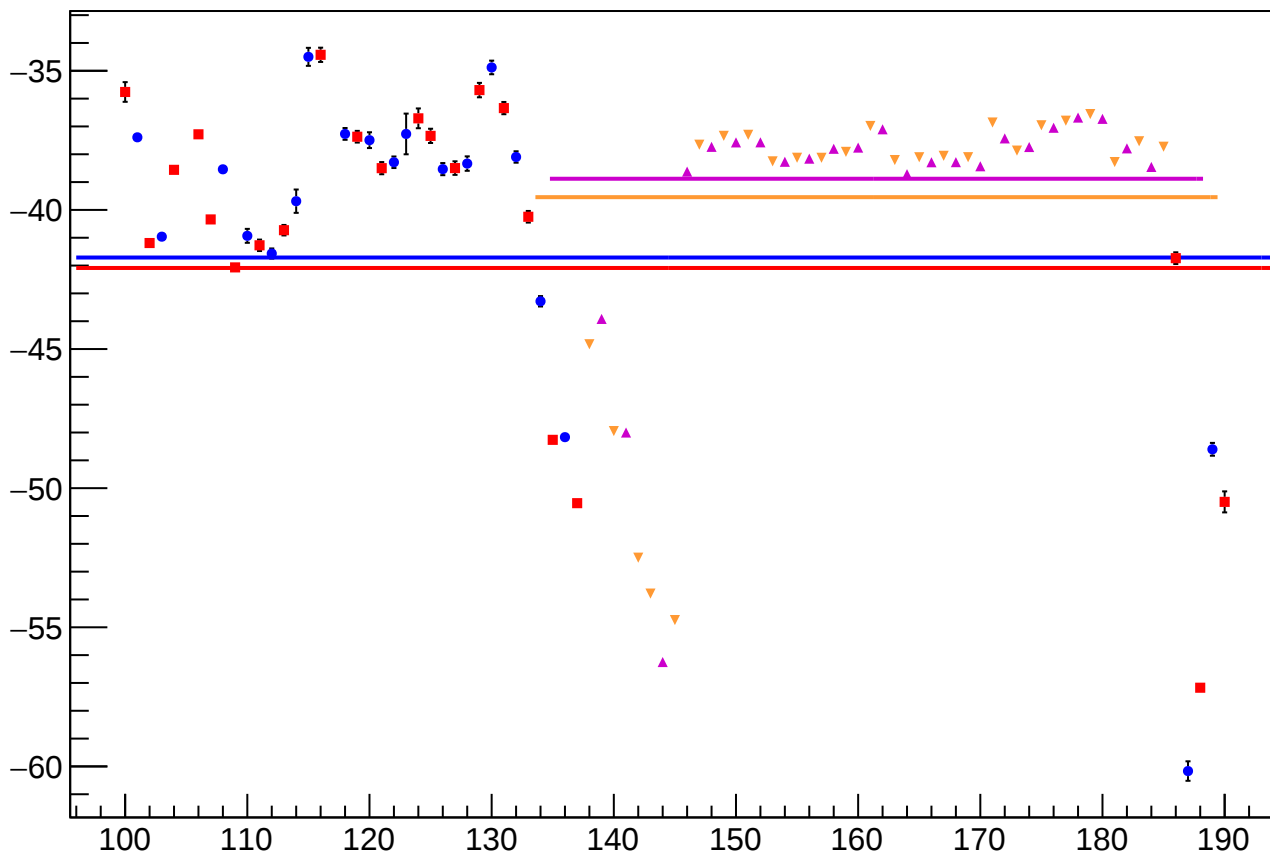
Right: 9.088 $\pm$ 0.499 χ^2 /NDF: 850.0/40

In: 17.808 $\pm$ 0.308 χ^2 /NDF:1714.7/41

Out: 17.255 $\pm$ 0.302 χ^2 /NDF:2120.0/46

All: 17.526 $\pm$ 0.216 χ^2 /NDF: 3836.3/88

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.711 ± 0.038 $\chi^2/\text{NDF}: 16291.8/18$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -42.086 ± 0.037 $\chi^2/\text{NDF}: 22164.9/21$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

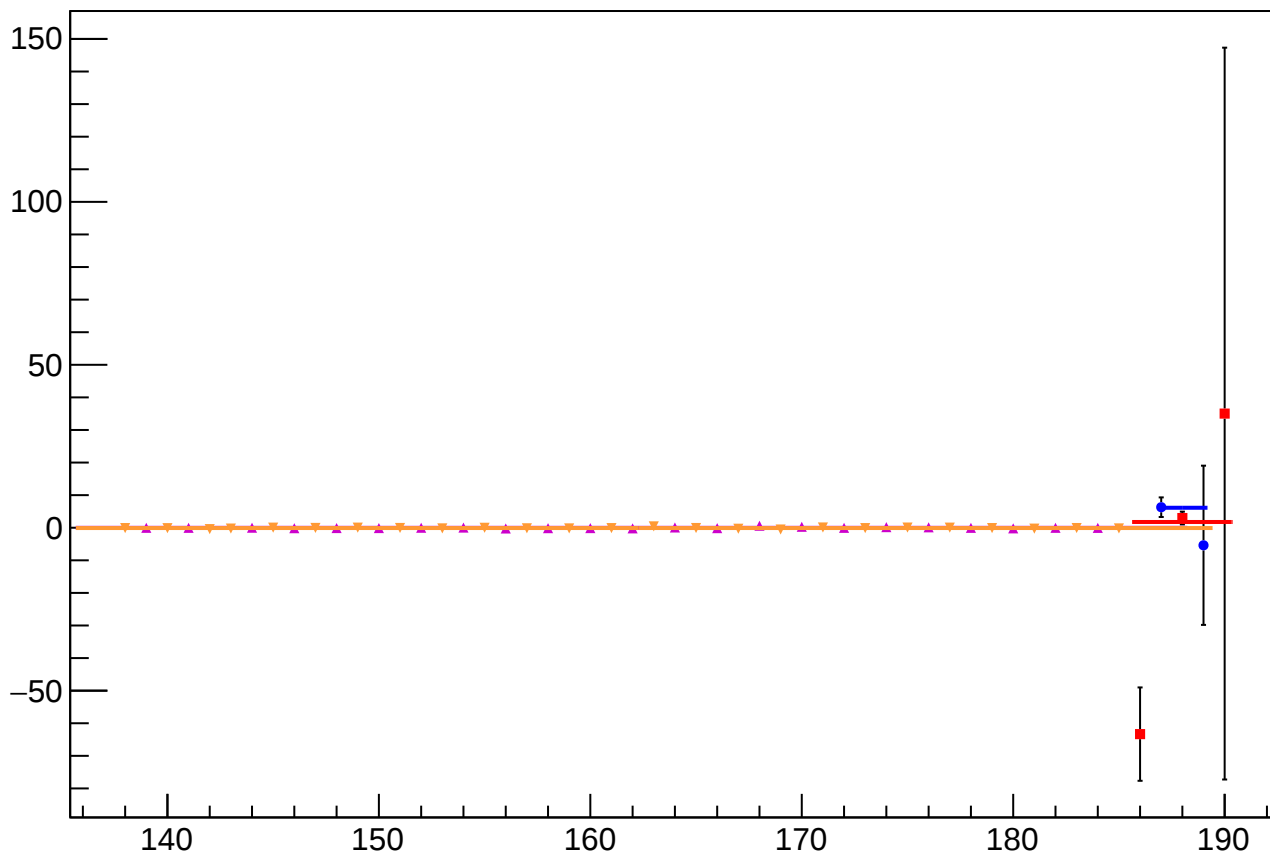
Right: -41.904 ± 0.026 $\chi^2/\text{NDF}: 38507.1/40$

In: -39.302 ± 0.015 $\chi^2/\text{NDF}: 74452.9/41$

Out: -39.934 ± 0.014 $\chi^2/\text{NDF}: 118222.5/46$

All: -39.622 ± 0.010 $\chi^2/\text{NDF}: 193618.6/88$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.130 ± 2.984 $\chi^2/\text{NDF}: 0.2/1$

Left Out: -0.095 ± 0.022 $\chi^2/\text{NDF}: 41.8/24$

Right Out: 1.765 ± 1.944 $\chi^2/\text{NDF}: 21.1/2$

Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.061 ± 0.016 $\chi^2/\text{NDF}: 80.1/47$

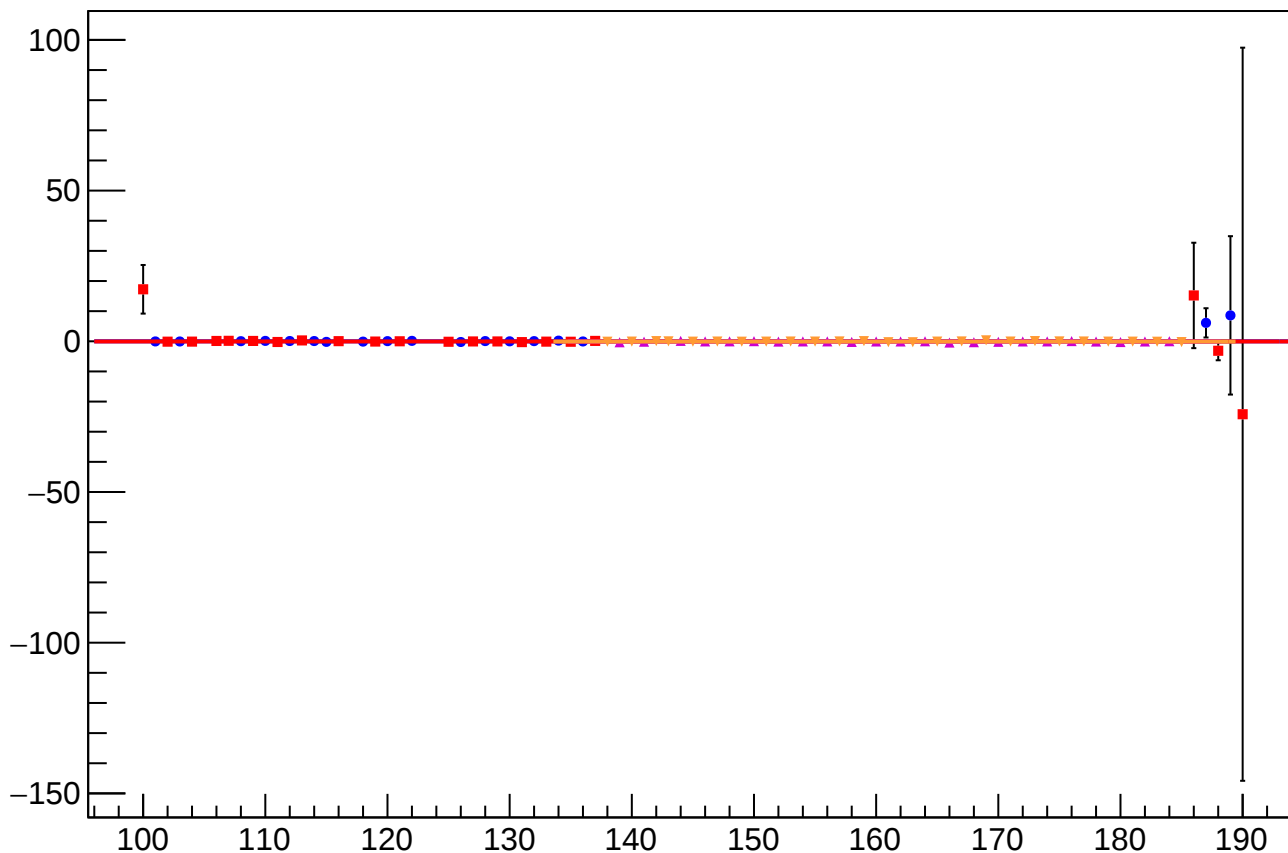
Right: 3.065 ± 1.629 $\chi^2/\text{NDF}: 22.8/4$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 37.8/24$

Out: -0.095 ± 0.022 $\chi^2/\text{NDF}: 63.9/27$

All: -0.061 ± 0.016 $\chi^2/\text{NDF}: 106.6/52$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 14.4/17

Left Out: -0.078 ± 0.017 χ^2/NDF : 26.6/24

Right Out: -0.050 ± 0.029 χ^2/NDF : 27.3/20

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.065 ± 0.012 χ^2/NDF : 59.4/47

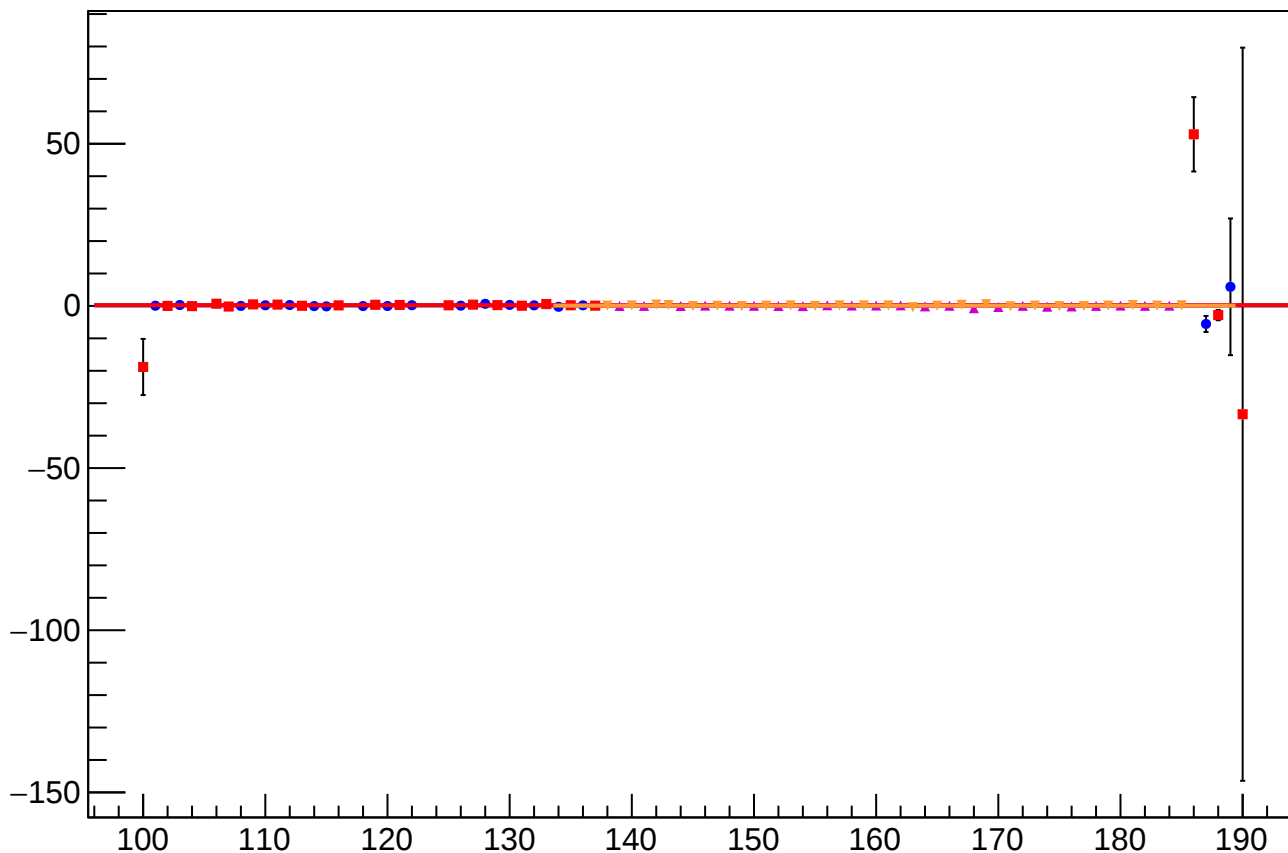
Right: -0.025 ± 0.020 χ^2/NDF : 43.1/38

In: -0.038 ± 0.015 χ^2/NDF : 48.3/40

Out: -0.071 ± 0.015 χ^2/NDF : 54.5/45

All: -0.055 ± 0.010 χ^2/NDF : 105.3/86

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 17.9/17

Left Out: 0.088 $\pm$ 0.022 χ^2 /NDF:40.7/24

Right Out: 0.233 $\pm$ 0.054 χ^2 /NDF: 46.4/20

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

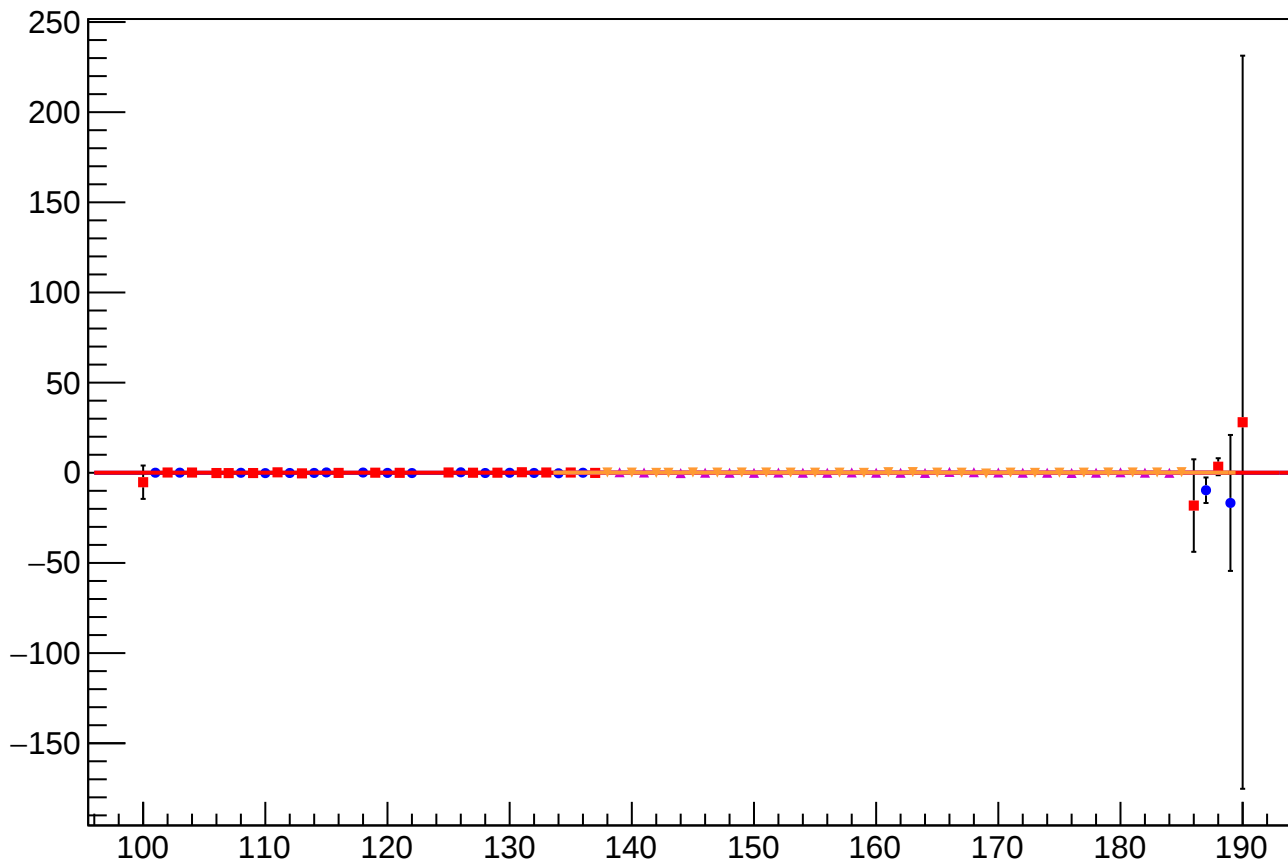
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 65.0/38

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.5/40

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:93.5/45

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 159.0/86

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 16.1/17

Left Out: 0.102 ± 0.019 χ^2/NDF : 30.2/24

Right Out: 0.057 ± 0.034 χ^2/NDF : 21.3/20

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.086 ± 0.014 χ^2/NDF : 63.0/47

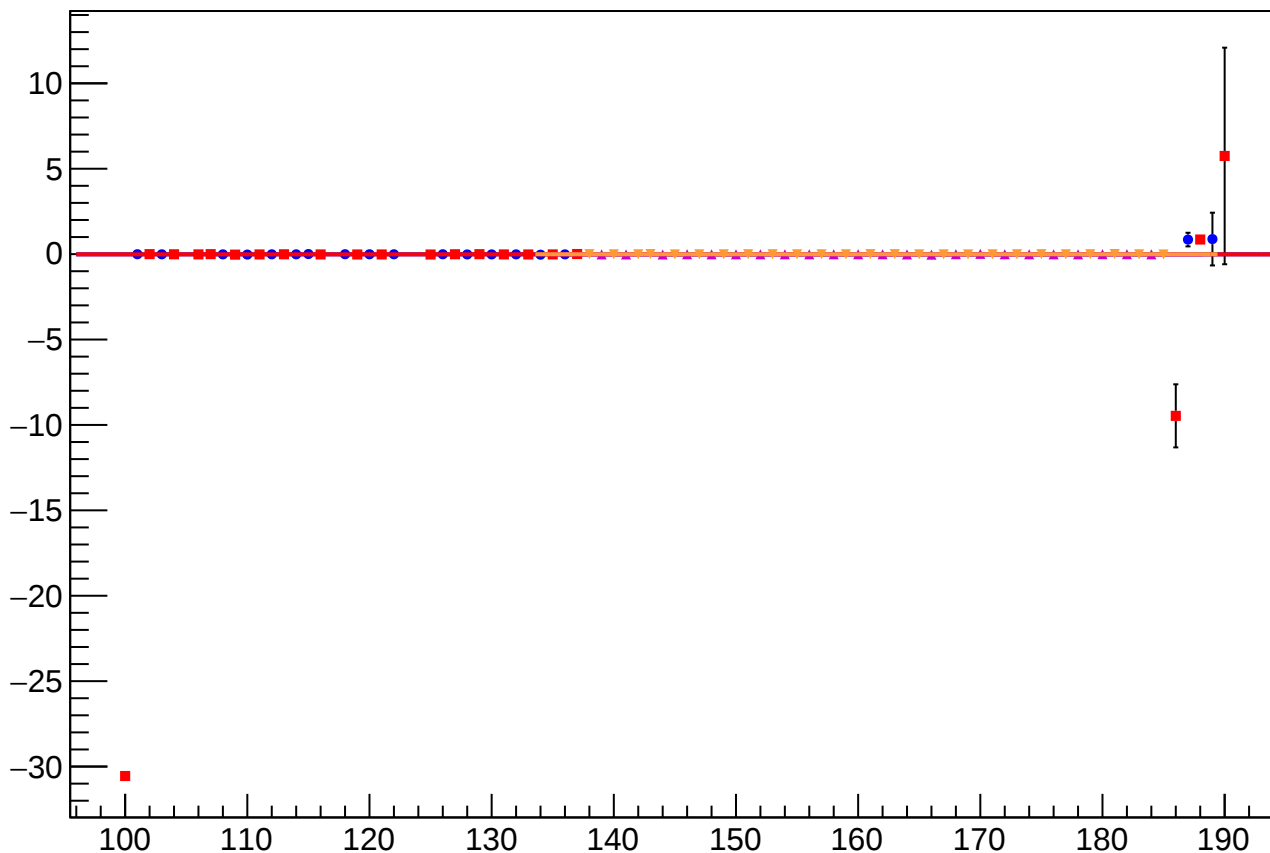
Right: 0.024 ± 0.024 χ^2/NDF : 39.3/38

In: 0.049 ± 0.017 χ^2/NDF : 51.3/40

Out: 0.091 ± 0.017 χ^2/NDF : 52.9/45

All: 0.070 ± 0.012 χ^2/NDF : 107.4/86

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 17.8/17

Left Out: -0.008 ± 0.001 χ^2/NDF : 34.7/24

Right Out: -0.012 ± 0.002 χ^2/NDF : 11930.7/20

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 76.4/47

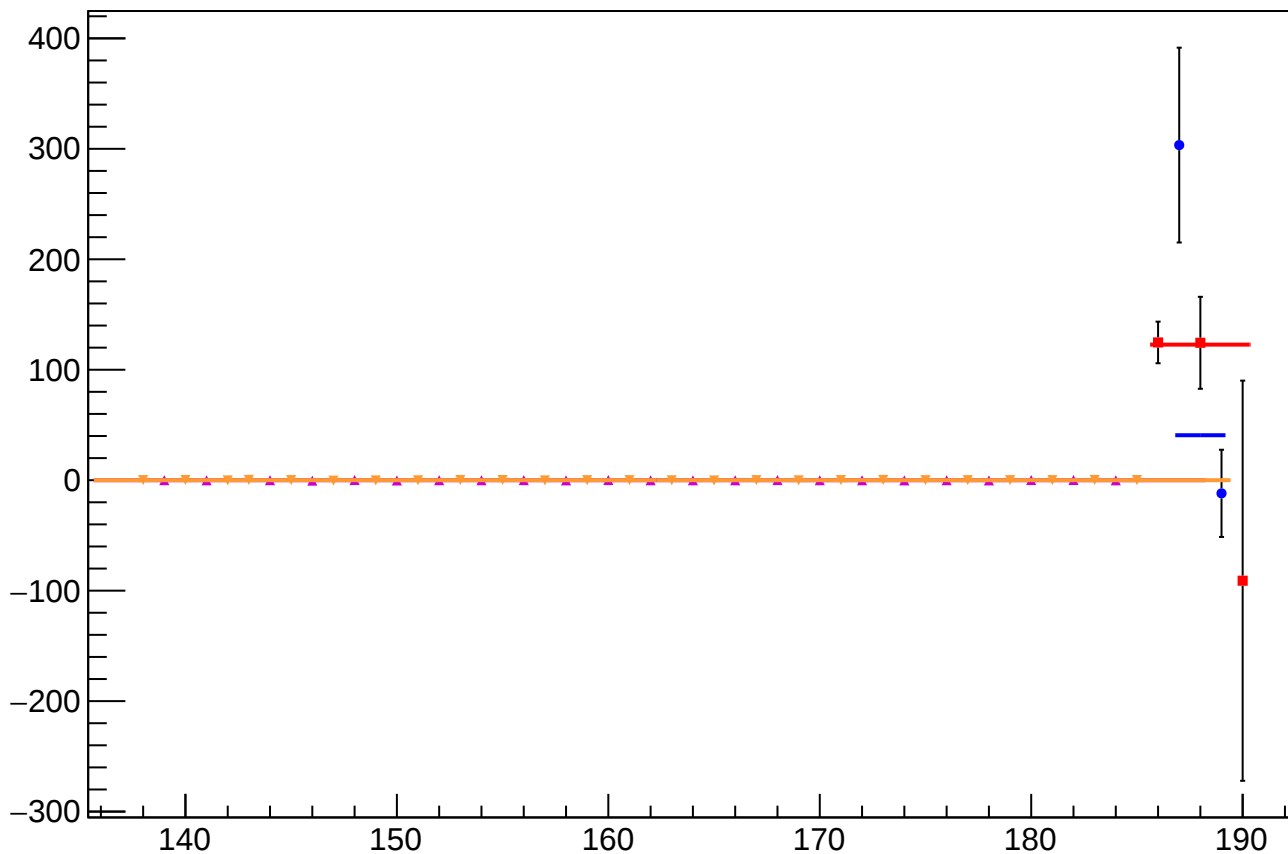
Right: -0.012 ± 0.001 χ^2/NDF : 11948.5/38

In: -0.009 ± 0.001 χ^2/NDF : 61.0/40

Out: -0.008 ± 0.001 χ^2/NDF : 11970.2/45

All: -0.009 ± 0.001 χ^2/NDF : 12031.8/86

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 40.717 $\pm$ 36.028 χ^2 /NDF: 10.6/1

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 122.737 $\pm$ 17.074 χ^2 /NDF: 1.4/2

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

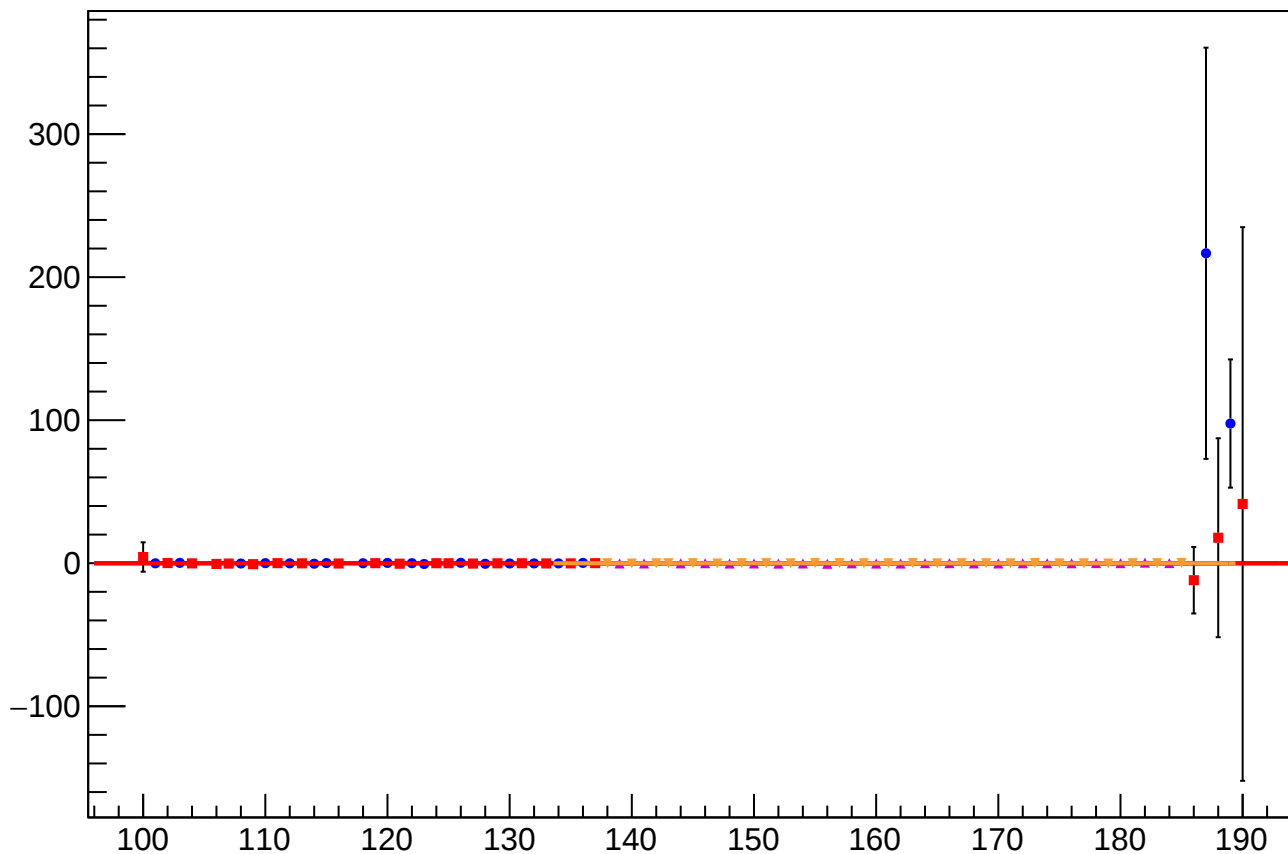
Right: 107.695 $\pm$ 15.429 χ^2 /NDF: 16.3/4

In: 0.002 $\pm$ 0.028 χ^2 /NDF:40.9/24

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:84.0/27

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 125.1/52

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 30.0/18

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 18.8/21

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

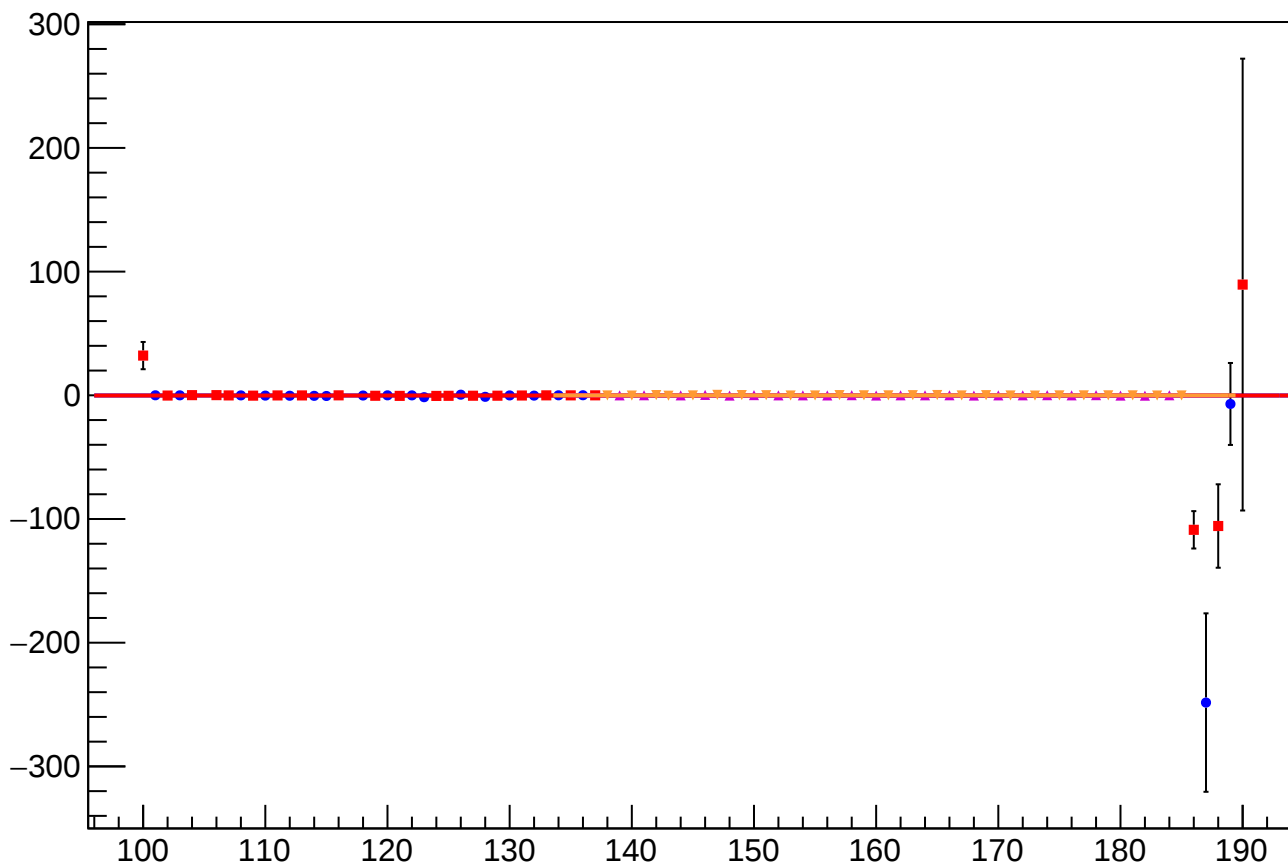
Right: -0.068 ± 0.027 χ^2/NDF : 52.1/40

In: -0.058 ± 0.019 χ^2/NDF : 80.2/41

Out: -0.073 ± 0.019 χ^2/NDF : 45.3/46

All: -0.066 ± 0.013 χ^2/NDF : 125.9/88

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 36.6/18

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 76.1/21

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

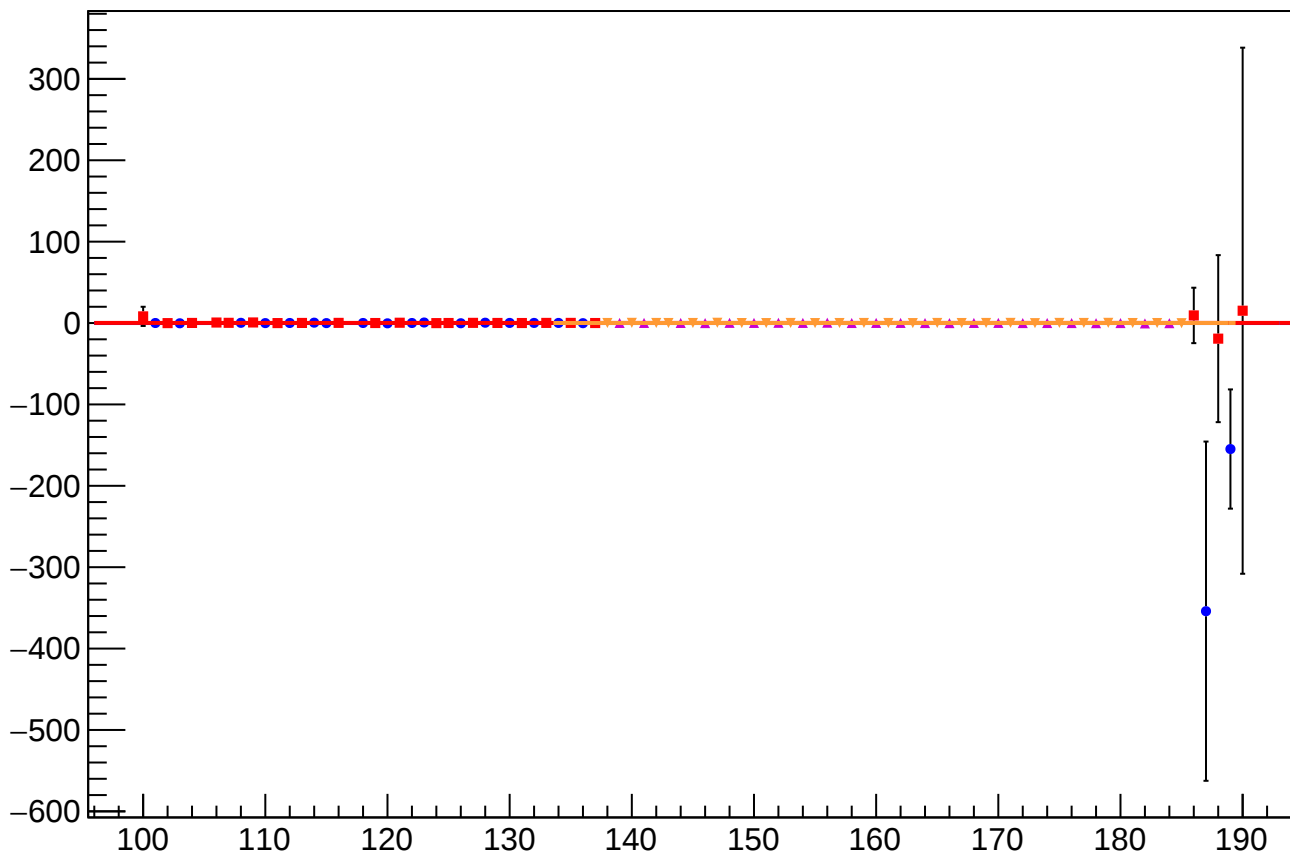
Right: -0.150 ± 0.049 χ^2/NDF : 112.8/40

In: -0.047 ± 0.025 χ^2/NDF : 67.1/41

Out: -0.037 ± 0.025 χ^2/NDF : 109.0/46

All: -0.042 ± 0.018 χ^2/NDF : 176.1/88

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.043 χ^2 /NDF: 29.0/18

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 16.9/21

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

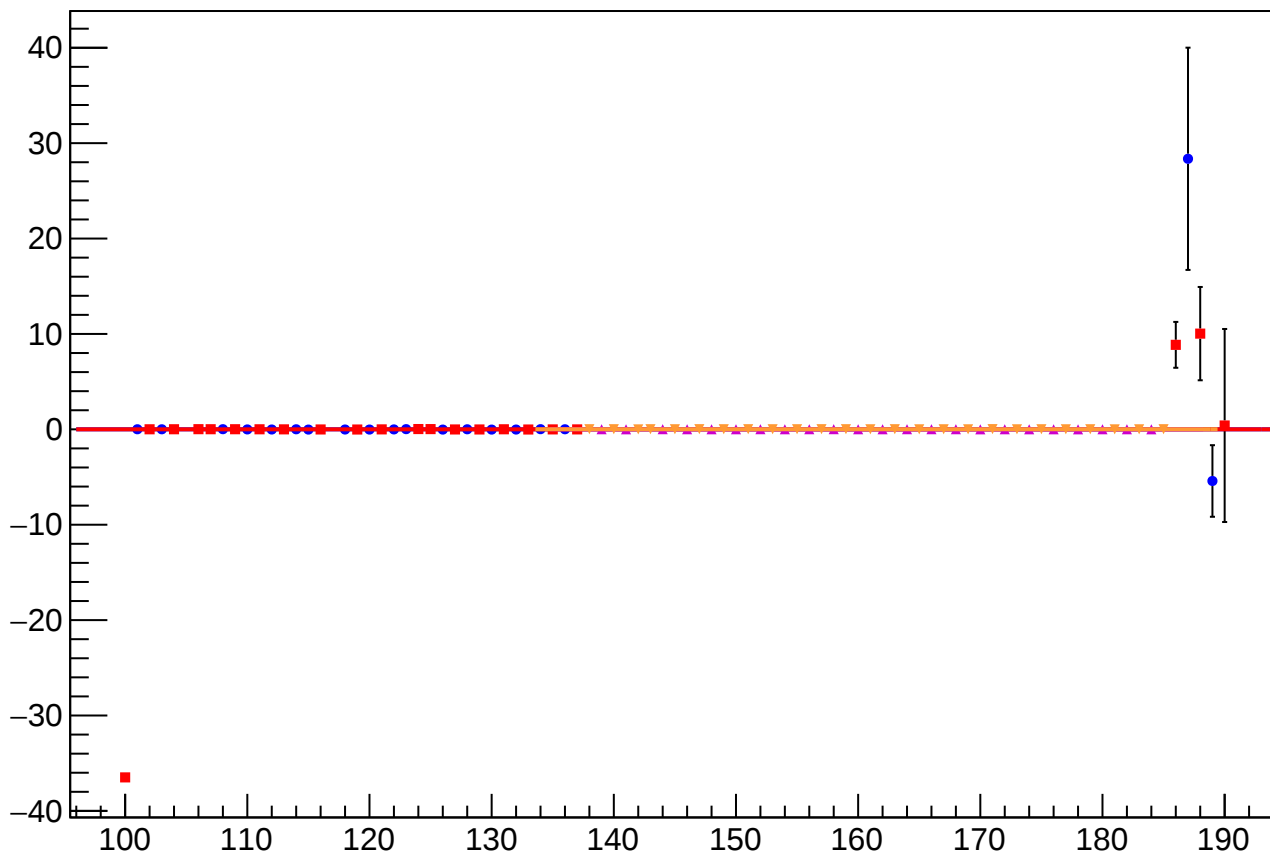
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 49.9/40

In: 0.056 $\pm$ 0.021 χ^2 /NDF:81.8/41

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:44.0/46

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 126.5/88

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2/NDF : 38.5/18

Left Out: 0.008 $\pm$ 0.001 χ^2/NDF : 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2/NDF : 10466.9/21

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

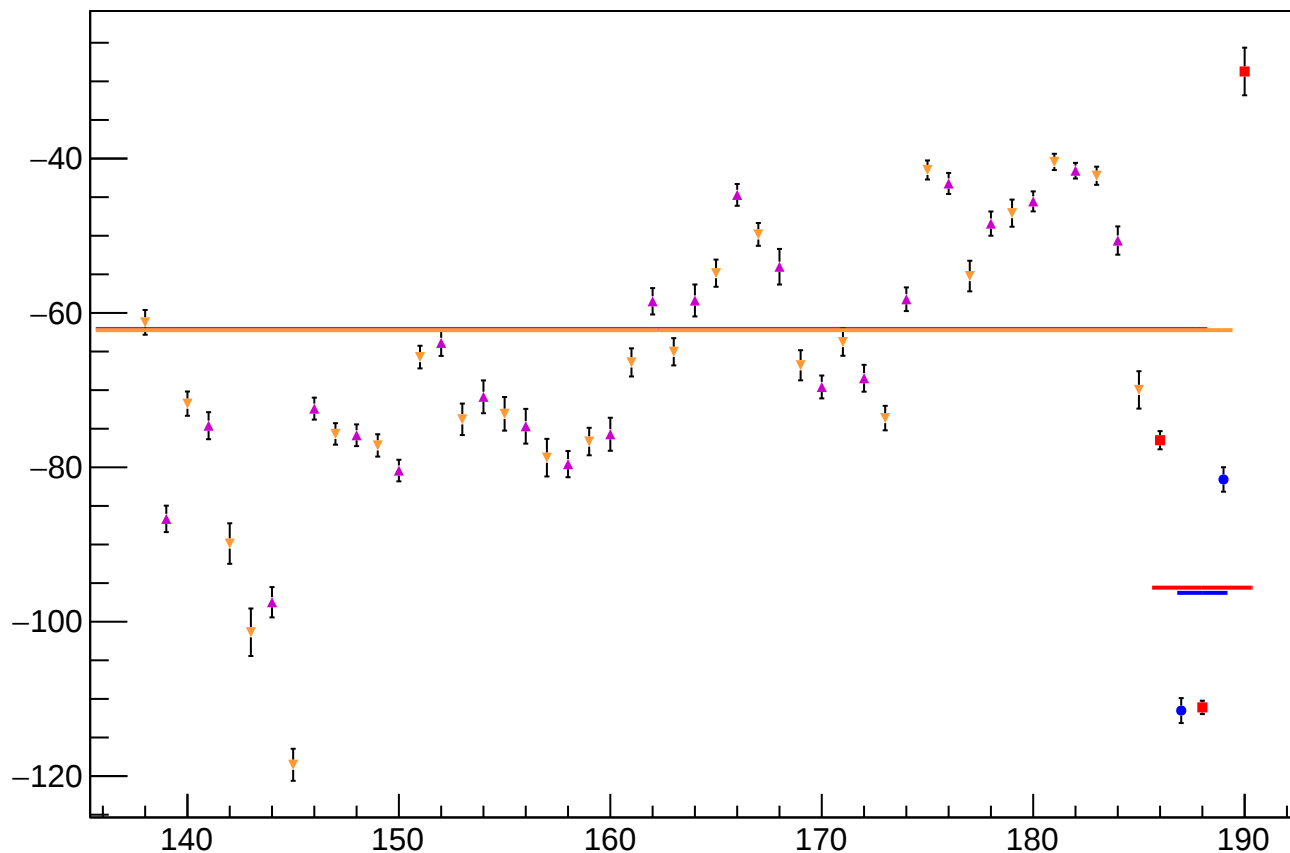
Right: 0.001 $\pm$ 0.002 χ^2/NDF : 10505.5/40

In: 0.007 $\pm$ 0.001 χ^2/NDF : 63.0/41

Out: 0.007 $\pm$ 0.001 χ^2/NDF : 10502.2/46

All: 0.007 $\pm$ 0.001 χ^2/NDF : 10565.3/88

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected

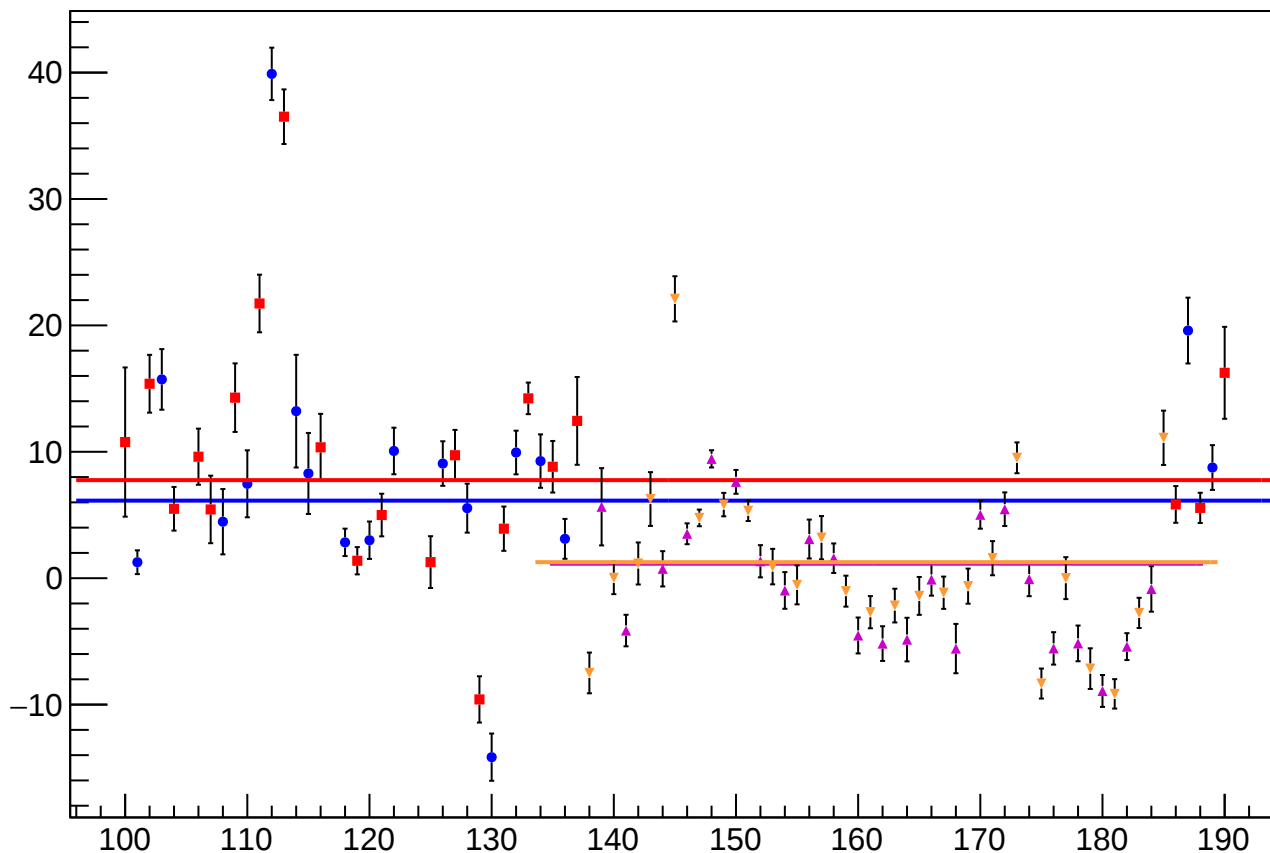


Right In: -96.260 ± 1.133 $\chi^2/\text{NDF}: 174.5/1$
 Left Out: -62.232 ± 0.332 $\chi^2/\text{NDF}: 2668.5/24$
 Right Out: -95.587 ± 0.680 $\chi^2/\text{NDF}: 1055.2/2$
 Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -62.153 ± 0.235 $\chi^2/\text{NDF}: 4860.6/47$
 Right: -95.765 ± 0.583 $\chi^2/\text{NDF}: 1230.0/4$
 In: -64.782 ± 0.319 $\chi^2/\text{NDF}: 3205.0/24$
 Out: -68.655 ± 0.298 $\chi^2/\text{NDF}: 5668.3/27$

All: -66.848 ± 0.218 $\chi^2/\text{NDF}: 8951.9/52$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.136 $\pm$ 0.412 χ^2 /NDF: 490.4/17

Left Out: 1.269 $\pm$ 0.251 χ^2 /NDF:531.9/24

Right Out: 7.759 $\pm$ 0.404 χ^2 /NDF: 418.9/20

Left In: 1.146 $\pm$ 0.255 χ^2 /NDF:462.9/22

Left: 1.208 $\pm$ 0.179 χ^2 /NDF: 995.0/47

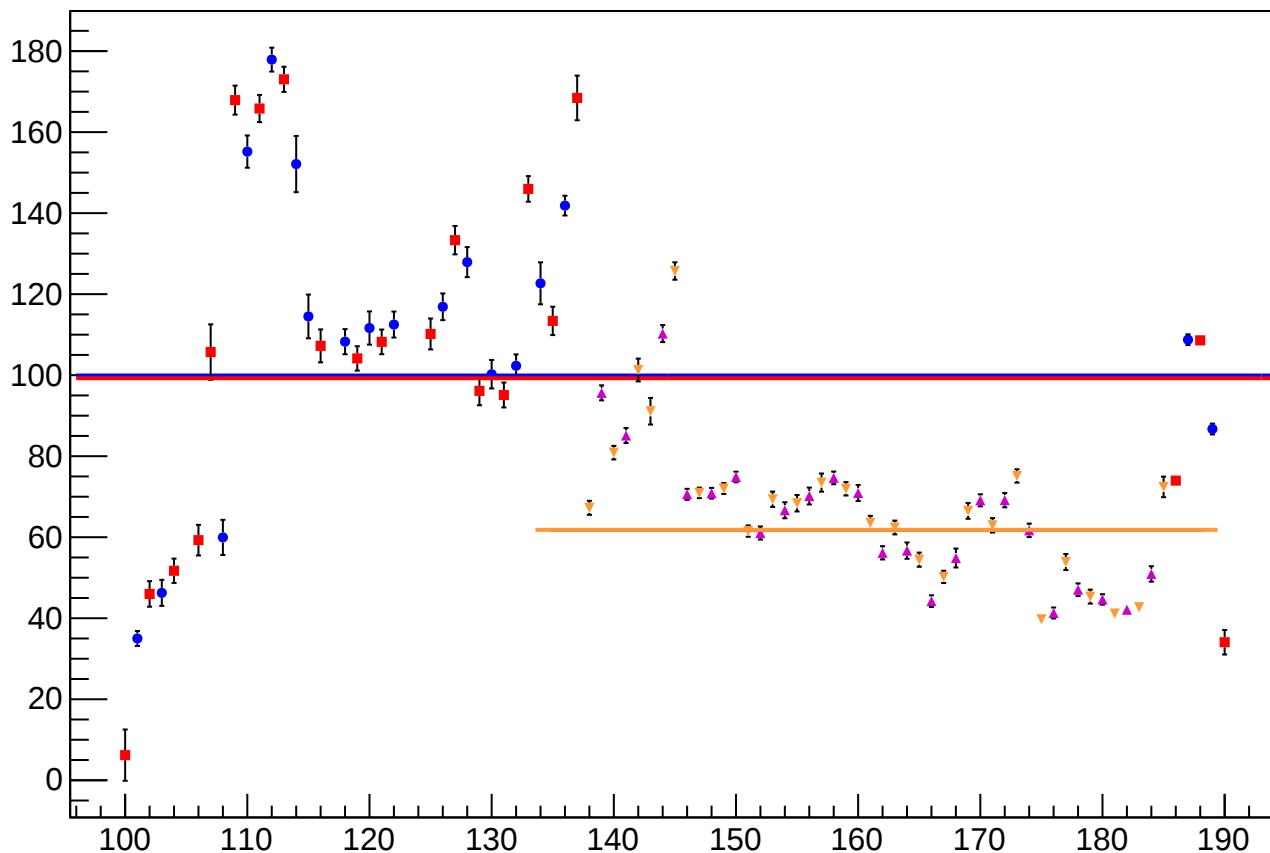
Right: 6.963 $\pm$ 0.289 χ^2 /NDF: 917.2/38

In: 2.529 $\pm$ 0.217 χ^2 /NDF:1059.2/40

Out: 3.072 $\pm$ 0.213 χ^2 /NDF:1136.9/45

All: 2.805 $\pm$ 0.152 χ^2 /NDF: 2199.2/86

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 99.911+/-0.615 χ^2 /NDF: 3119.5/17

Left Out: 61.812+/-0.331 χ^2 /NDF:2686.4/24

Right Out: 99.245+/-0.459 χ^2 /NDF: 4066.4/20

Left In: 61.762+/-0.330 χ^2 /NDF:2418.2/22

Left: 61.787+/-0.234 χ^2 /NDF: 5104.6/47

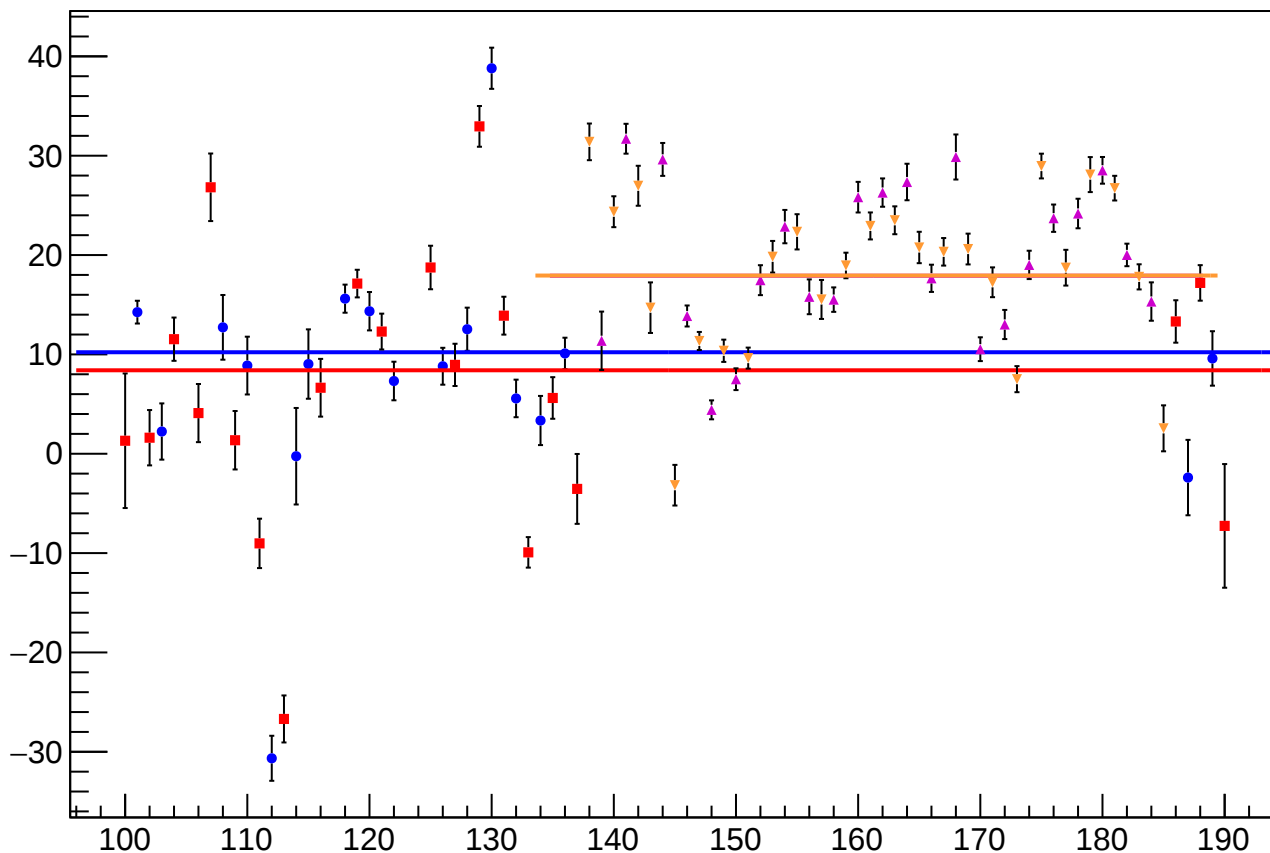
Right: 99.483+/-0.368 χ^2 /NDF: 7186.6/38

In: 70.281+/-0.291 χ^2 /NDF:8522.8/40

Out: 74.584+/-0.268 χ^2 /NDF:11126.1/45

All: 72.605+/-0.197 χ^2 /NDF: 19767.1/86

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.217 $\pm$ 0.486 χ^2 /NDF: 589.3/17

Left Out: 17.937 $\pm$ 0.289 χ^2 /NDF: 676.0/24

Right Out: 8.401 $\pm$ 0.488 χ^2 /NDF: 725.6/20

Left In: 17.916 $\pm$ 0.292 χ^2 /NDF: 726.5/22

Left: 17.927 $\pm$ 0.206 χ^2 /NDF: 1402.5/47

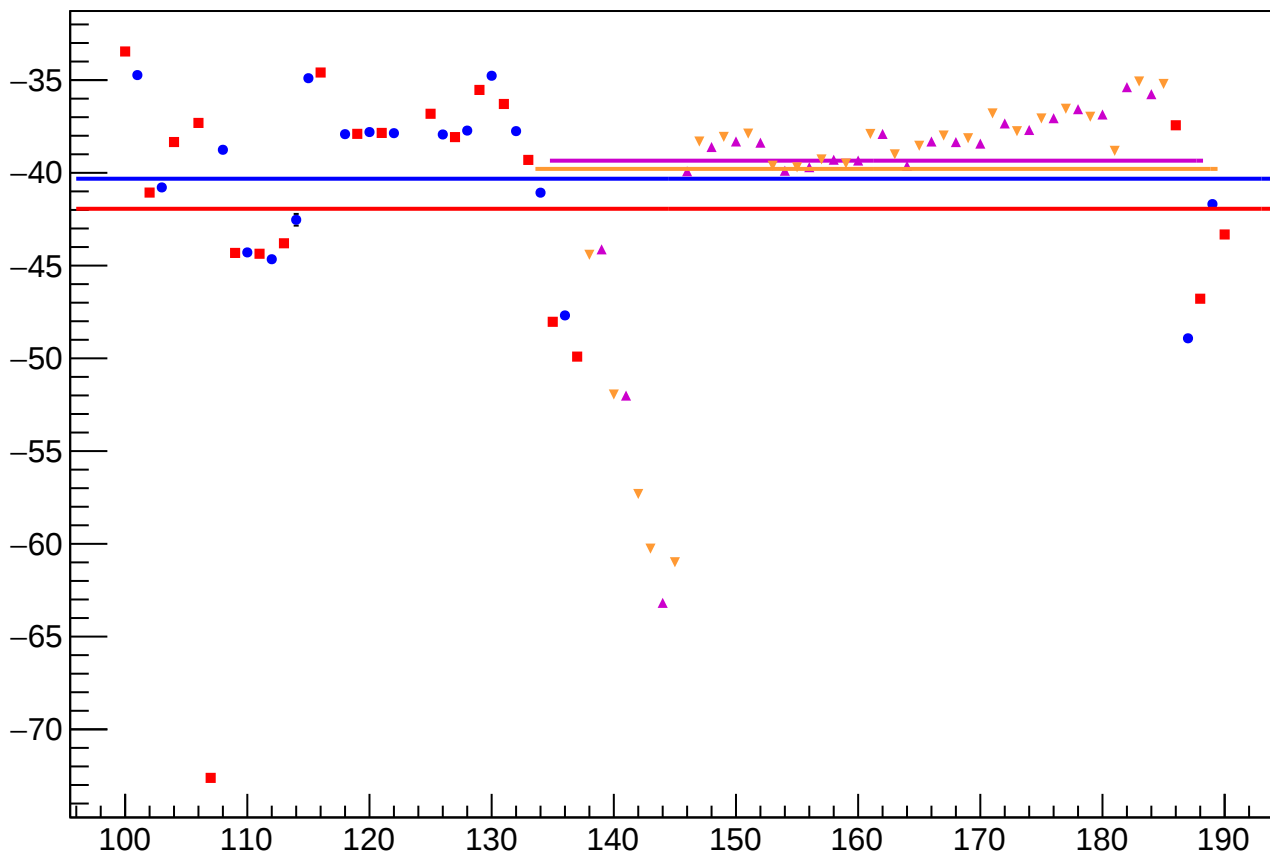
Right: 9.313 $\pm$ 0.344 χ^2 /NDF: 1321.8/38

In: 15.872 $\pm$ 0.251 χ^2 /NDF: 1499.9/40

Out: 15.462 $\pm$ 0.249 χ^2 /NDF: 1684.3/45

All: 15.665 $\pm$ 0.176 χ^2 /NDF: 3185.6/86

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.317 ± 0.027 $\chi^2/\text{NDF}: 26839.3/17$

Left Out: -39.788 ± 0.014 $\chi^2/\text{NDF}: 165493.8/24$

Right Out: -41.938 ± 0.027 $\chi^2/\text{NDF}: 65516.3/20$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.565 ± 0.010 $\chi^2/\text{NDF}: 282639.2/47$

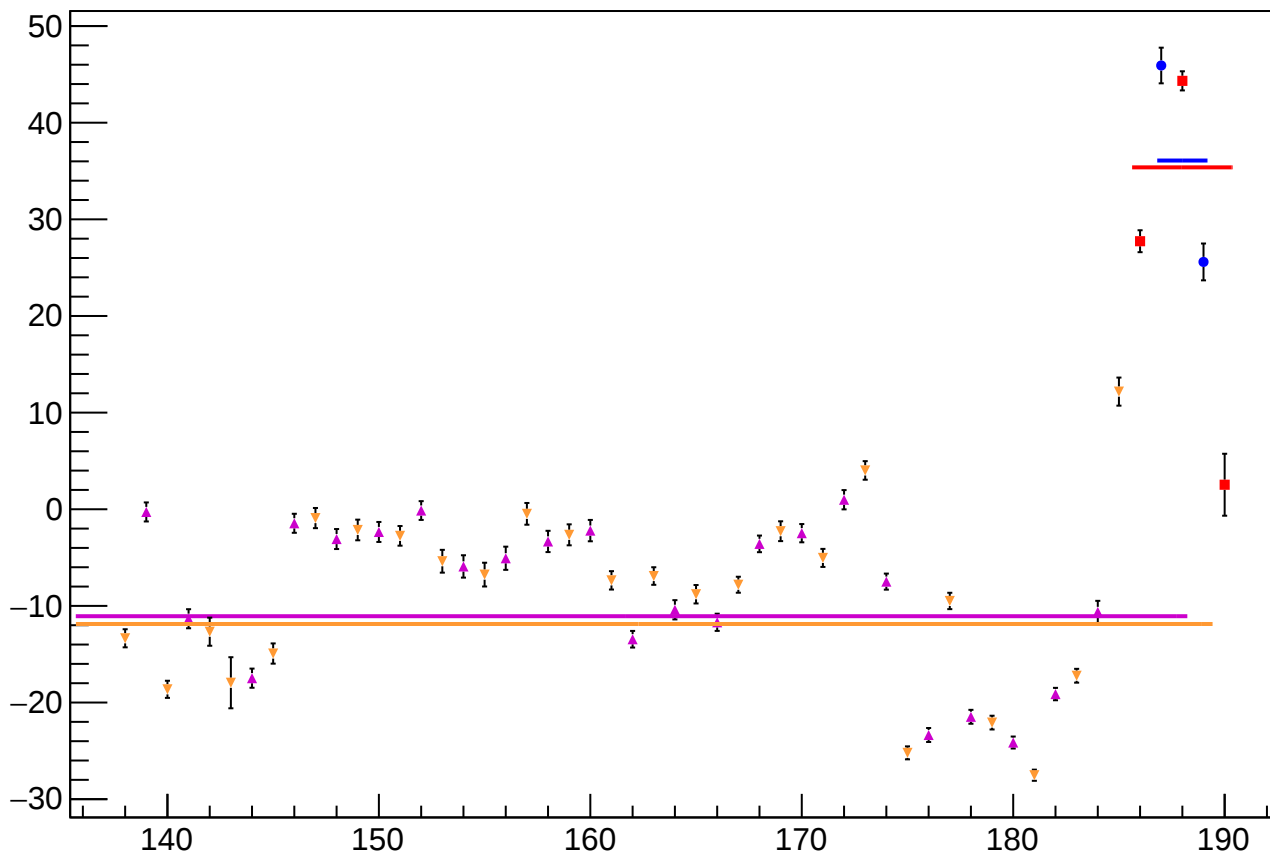
Right: -41.151 ± 0.019 $\chi^2/\text{NDF}: 94149.4/38$

In: -39.536 ± 0.012 $\chi^2/\text{NDF}: 144465.0/40$

Out: -40.235 ± 0.012 $\chi^2/\text{NDF}: 236161.7/45$

All: -39.886 ± 0.009 $\chi^2/\text{NDF}: 382275.8/86$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



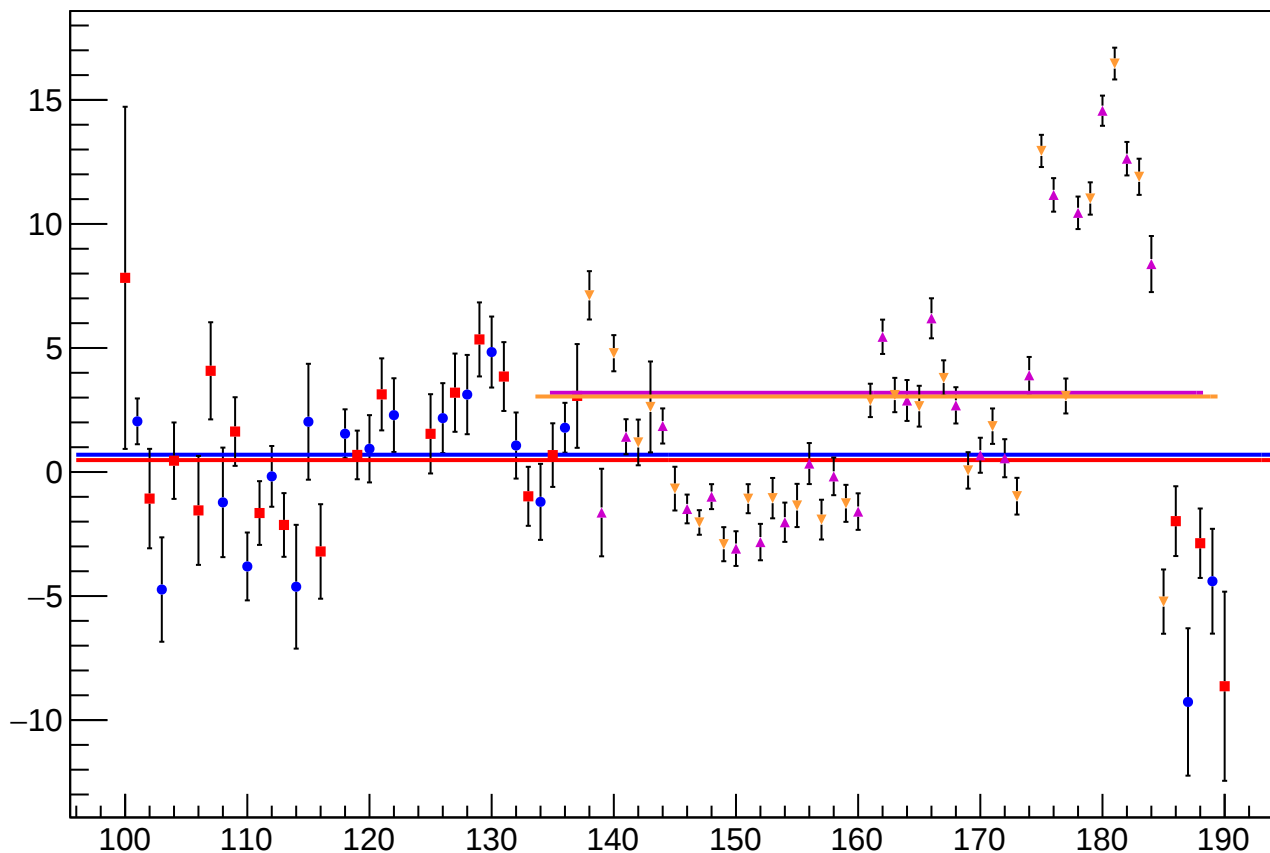
Right In: 36.085 $\pm$ 1.326 χ^2 /NDF: 58.7/1
 Left Out: -11.873 $\pm$ 0.186 χ^2 /NDF: 2745.2/24
 Right Out: 35.378 $\pm$ 0.727 χ^2 /NDF: 232.1/2
 Left In: -11.067 $\pm$ 0.188 χ^2 /NDF: 2104.8/22

Left: -11.473 $\pm$ 0.132 χ^2 /NDF: 4859.2/47
 Right: 35.542 $\pm$ 0.637 χ^2 /NDF: 291.0/4

In: -10.137 $\pm$ 0.186 χ^2 /NDF: 3403.9/24
 Out: -8.956 $\pm$ 0.181 χ^2 /NDF: 6945.3/27

All: -9.529 $\pm$ 0.130 χ^2 /NDF: 10370.0/52

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.698 ± 0.336 $\chi^2/\text{NDF}: 59.3/17$

Left Out: 3.044 ± 0.147 $\chi^2/\text{NDF}: 1457.3/24$

Right Out: 0.480 ± 0.332 $\chi^2/\text{NDF}: 58.2/20$

Left In: 3.194 ± 0.150 $\chi^2/\text{NDF}: 1295.0/22$

Left: 3.118 ± 0.105 $\chi^2/\text{NDF}: 2752.7/47$

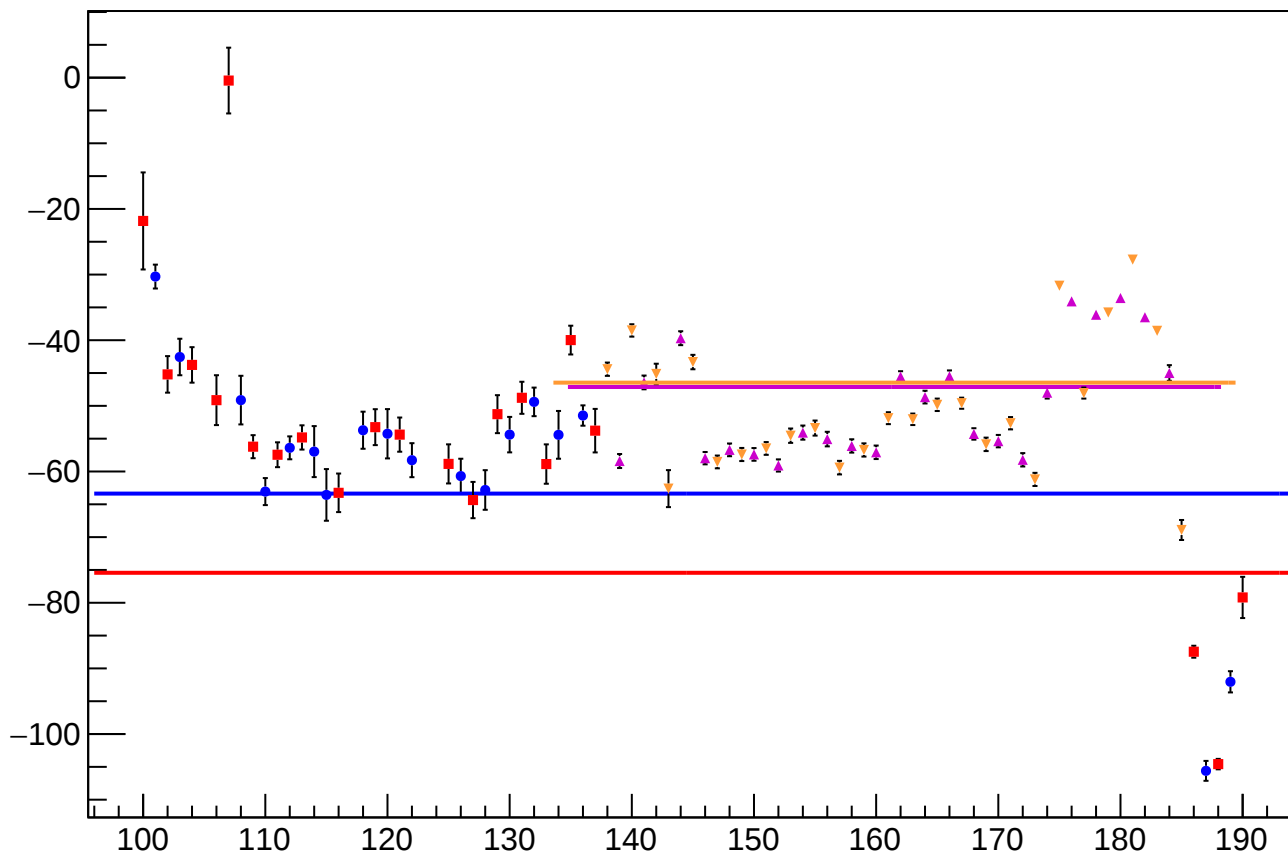
Right: 0.588 ± 0.236 $\chi^2/\text{NDF}: 117.7/38$

In: 2.779 ± 0.137 $\chi^2/\text{NDF}: 1400.4/40$

Out: 2.622 ± 0.135 $\chi^2/\text{NDF}: 1565.3/45$

All: 2.699 ± 0.096 $\chi^2/\text{NDF}: 2966.4/86$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.367 ± 0.538 χ^2/NDF : 1650.7/17

Left Out: -46.463 ± 0.186 χ^2/NDF : 3319.7/24

Right Out: -75.433 ± 0.426 χ^2/NDF : 3143.7/20

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.793 ± 0.132 χ^2/NDF : 5842.0/47

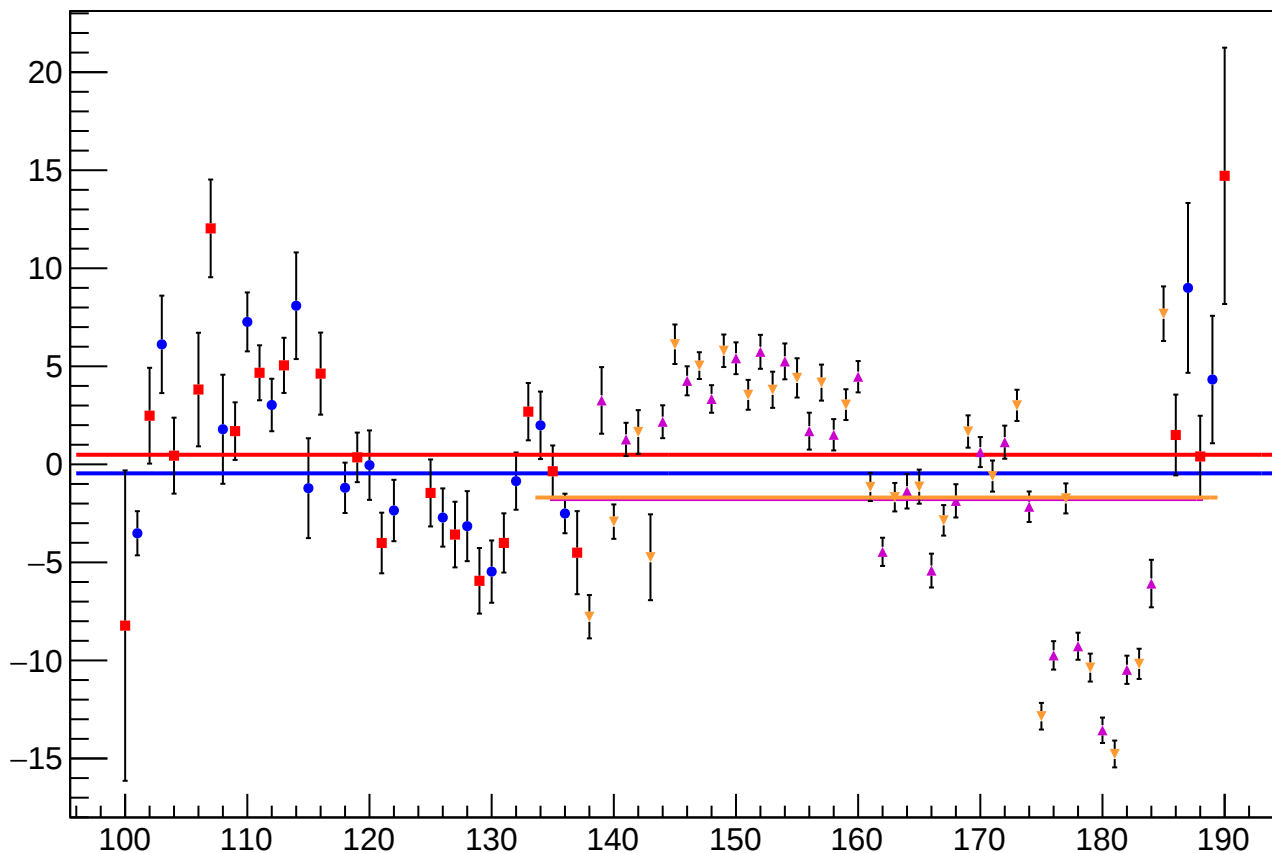
Right: -70.780 ± 0.334 χ^2/NDF : 5103.5/38

In: -48.882 ± 0.177 χ^2/NDF : 4979.6/40

Out: -51.104 ± 0.171 χ^2/NDF : 10343.4/45

All: -50.033 ± 0.123 χ^2/NDF : 15404.9/86

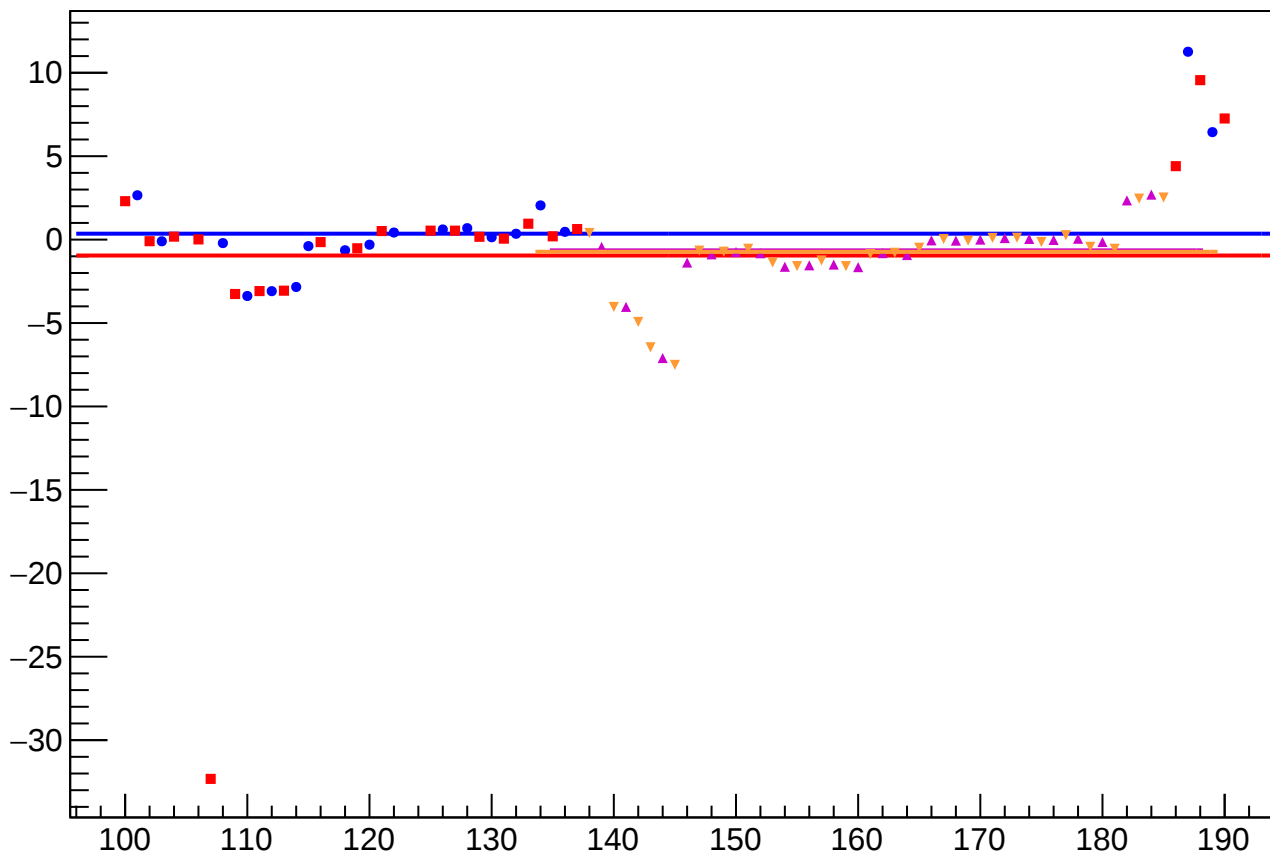
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.459 ± 0.383 $\chi^2/\text{NDF}: 87.8/17$
 Left Out: -1.693 ± 0.167 $\chi^2/\text{NDF}: 1485.7/24$
 Right Out: 0.489 ± 0.385 $\chi^2/\text{NDF}: 101.2/20$
 Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.731 ± 0.119 $\chi^2/\text{NDF}: 2737.1/47$
 Right: 0.013 ± 0.272 $\chi^2/\text{NDF}: 192.0/38$
 In: -1.558 ± 0.155 $\chi^2/\text{NDF}: 1348.8/40$
 Out: -1.349 ± 0.153 $\chi^2/\text{NDF}: 1613.9/45$
 All: -1.452 ± 0.109 $\chi^2/\text{NDF}: 2963.7/86$

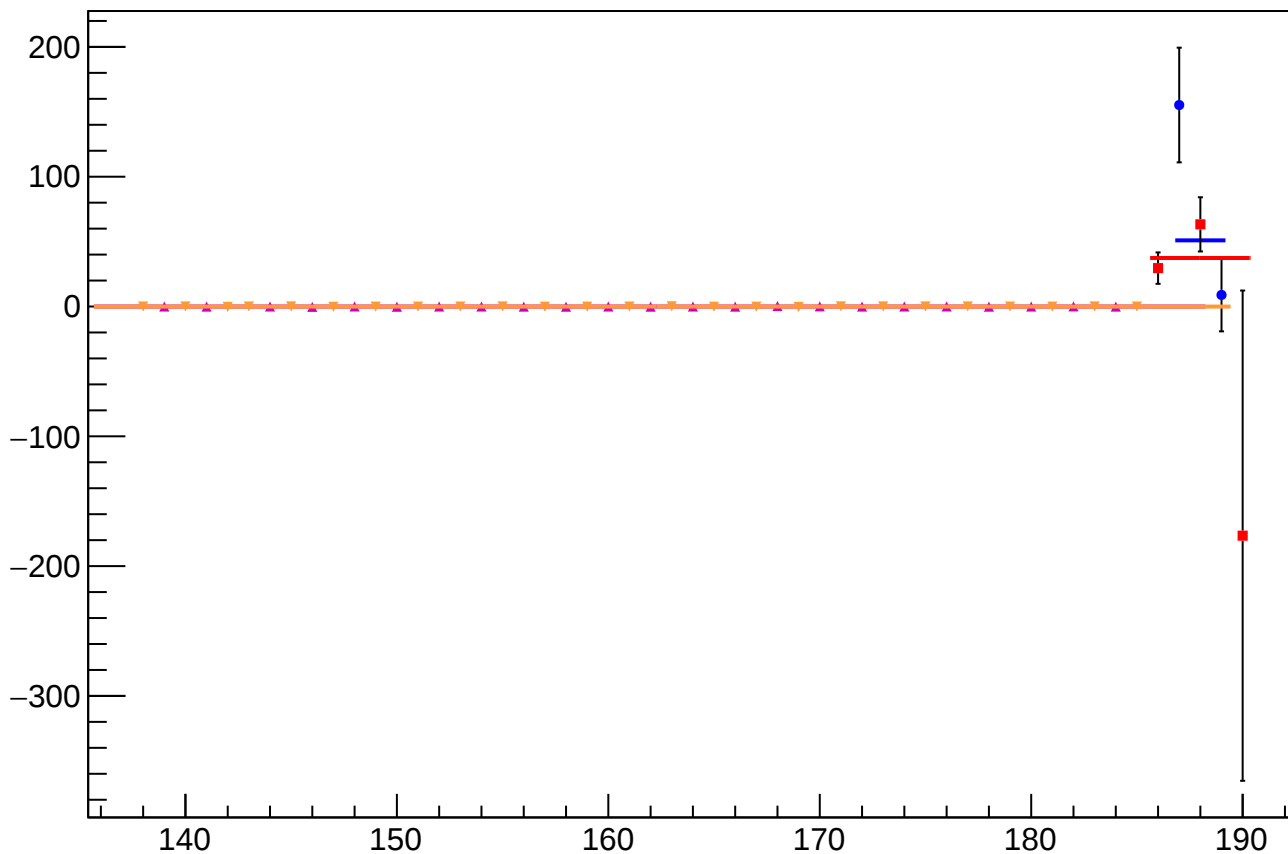
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.355 ± 0.021 $\chi^2/\text{NDF}: 9091.3/17$
 Left Out: -0.728 ± 0.008 $\chi^2/\text{NDF}: 56403.8/24$
 Right Out: -0.953 ± 0.021 $\chi^2/\text{NDF}: 92229.3/20$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.686 ± 0.005 $\chi^2/\text{NDF}: 100633.3/47$
 Right: -0.306 ± 0.015 $\chi^2/\text{NDF}: 103233.6/38$
 In: -0.529 ± 0.007 $\chi^2/\text{NDF}: 55213.3/40$
 Out: -0.754 ± 0.007 $\chi^2/\text{NDF}: 148734.6/45$
 All: -0.642 ± 0.005 $\chi^2/\text{NDF}: 204437.9/86$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.963+/-23.688 χ^2/NDF : 7.8/1

Left Out: -0.036+/-0.018 χ^2/NDF : 35.6/24

Right Out: 37.396+/-10.447 χ^2/NDF : 3.2/2

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.023+/-0.013 χ^2/NDF : 71.8/47

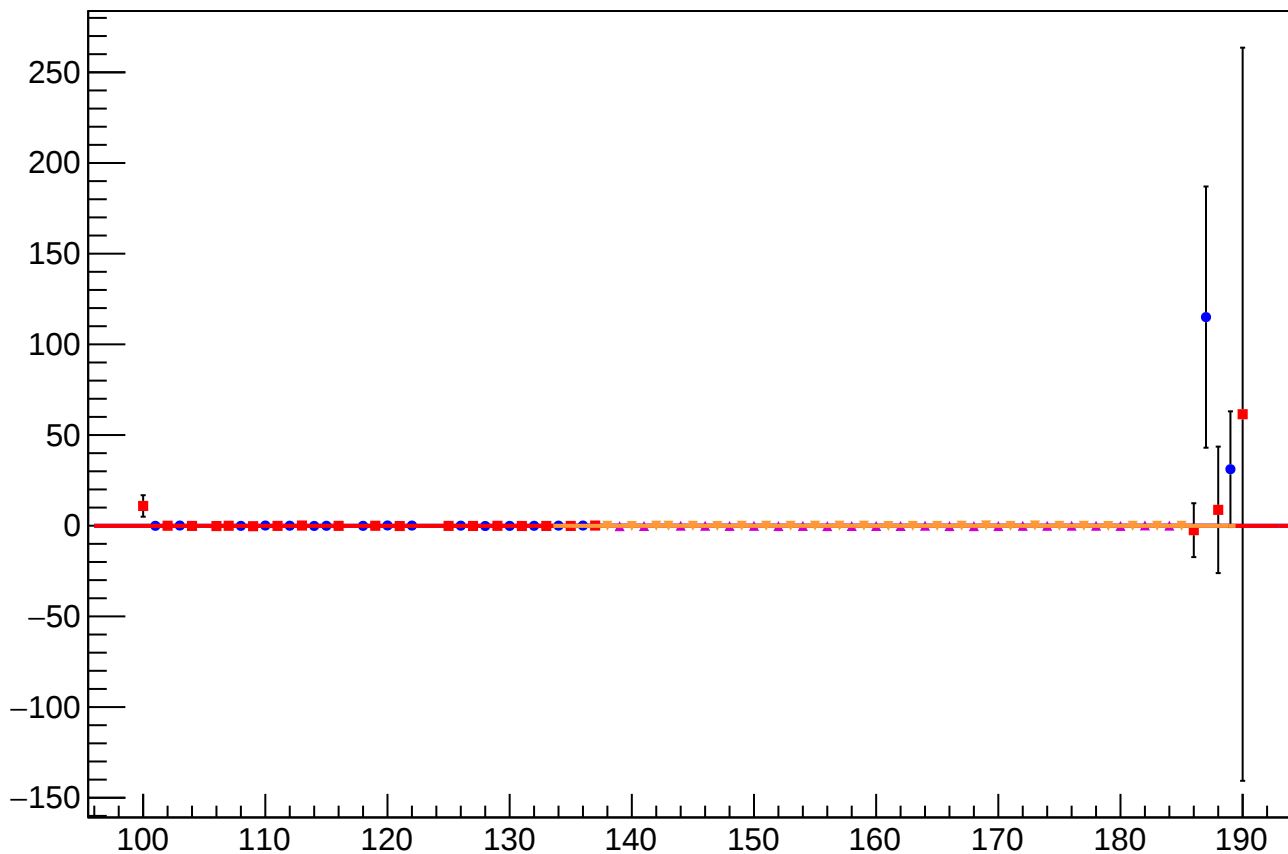
Right: 39.605+/-9.559 χ^2/NDF : 11.3/4

In: -0.010+/-0.018 χ^2/NDF : 47.6/24

Out: -0.036+/-0.018 χ^2/NDF : 51.7/27

All: -0.023+/-0.013 χ^2/NDF : 100.3/52

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023 χ^2 /NDF: 15.5/17

Left Out: -0.071 $\pm$ 0.014 χ^2 /NDF: 28.3/24

Right Out: -0.088 $\pm$ 0.025 χ^2 /NDF: 13.1/20

Left In: -0.064 $\pm$ 0.014 χ^2 /NDF: 41.1/22

Left: -0.067 $\pm$ 0.010 χ^2 /NDF: 69.5/47

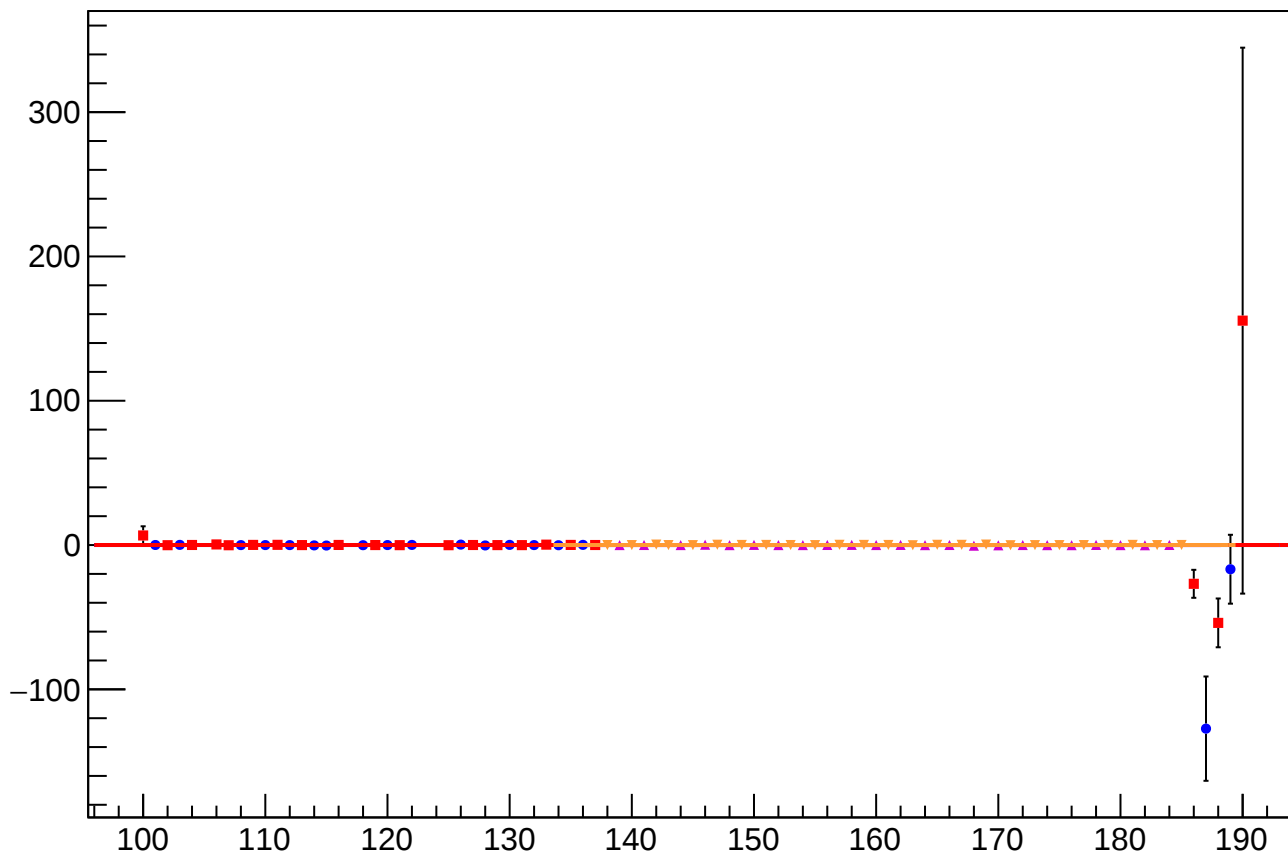
Right: -0.049 $\pm$ 0.017 χ^2 /NDF: 33.4/38

In: -0.050 $\pm$ 0.012 χ^2 /NDF: 60.0/40

Out: -0.075 $\pm$ 0.012 χ^2 /NDF: 41.8/45

All: -0.063 $\pm$ 0.009 χ^2 /NDF: 103.8/86

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 22.0/17

Left Out: 0.033+/-0.018 χ^2/NDF : 32.6/24

Right Out: 0.031+/-0.045 χ^2/NDF : 27.6/20

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.2/47

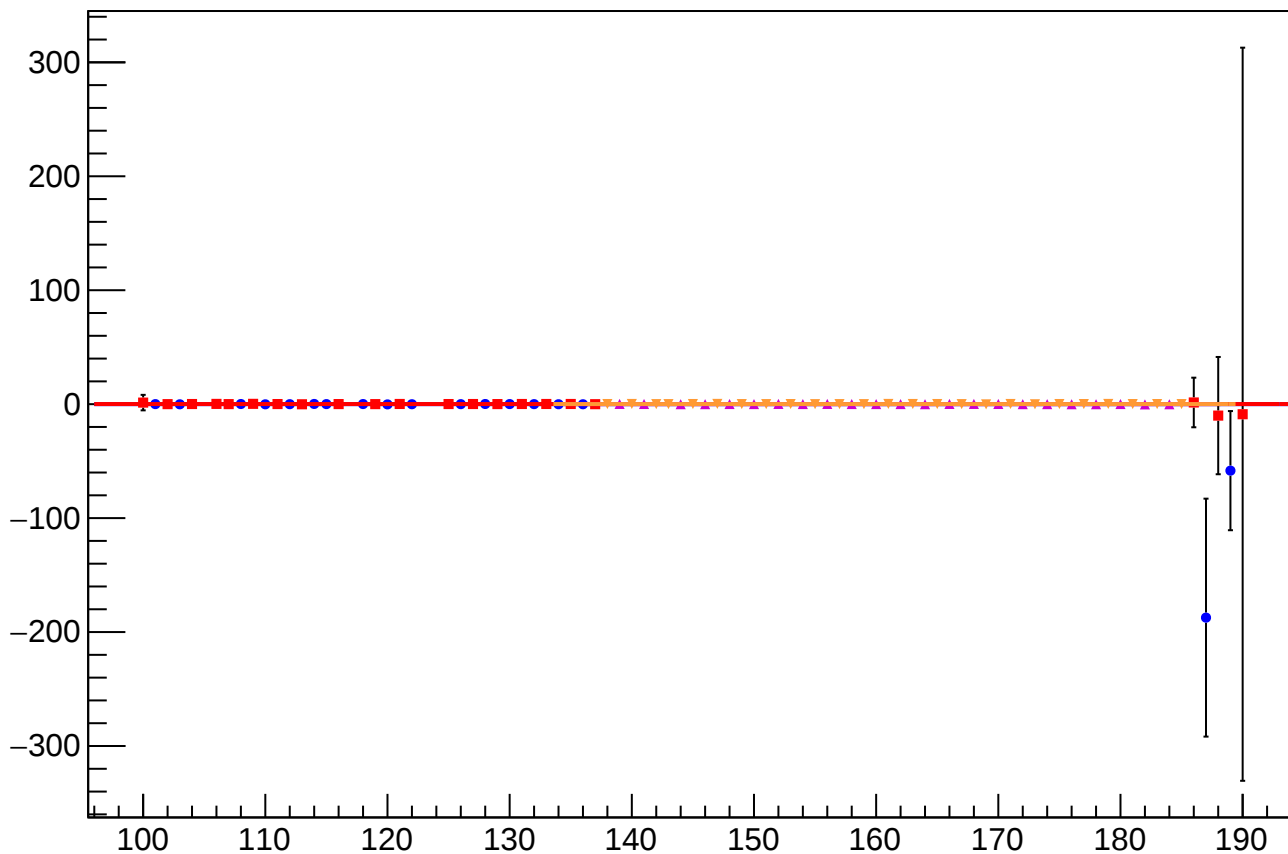
Right: 0.023+/-0.031 χ^2/NDF : 49.7/38

In: -0.005+/-0.017 χ^2/NDF : 59.1/40

Out: 0.033+/-0.016 χ^2/NDF : 60.2/45

All: 0.014+/-0.012 χ^2/NDF : 122.0/86

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 16.2/17

Left Out: 0.084 $\pm$ 0.016 χ^2 /NDF:28.1/24

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 8.2/20

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

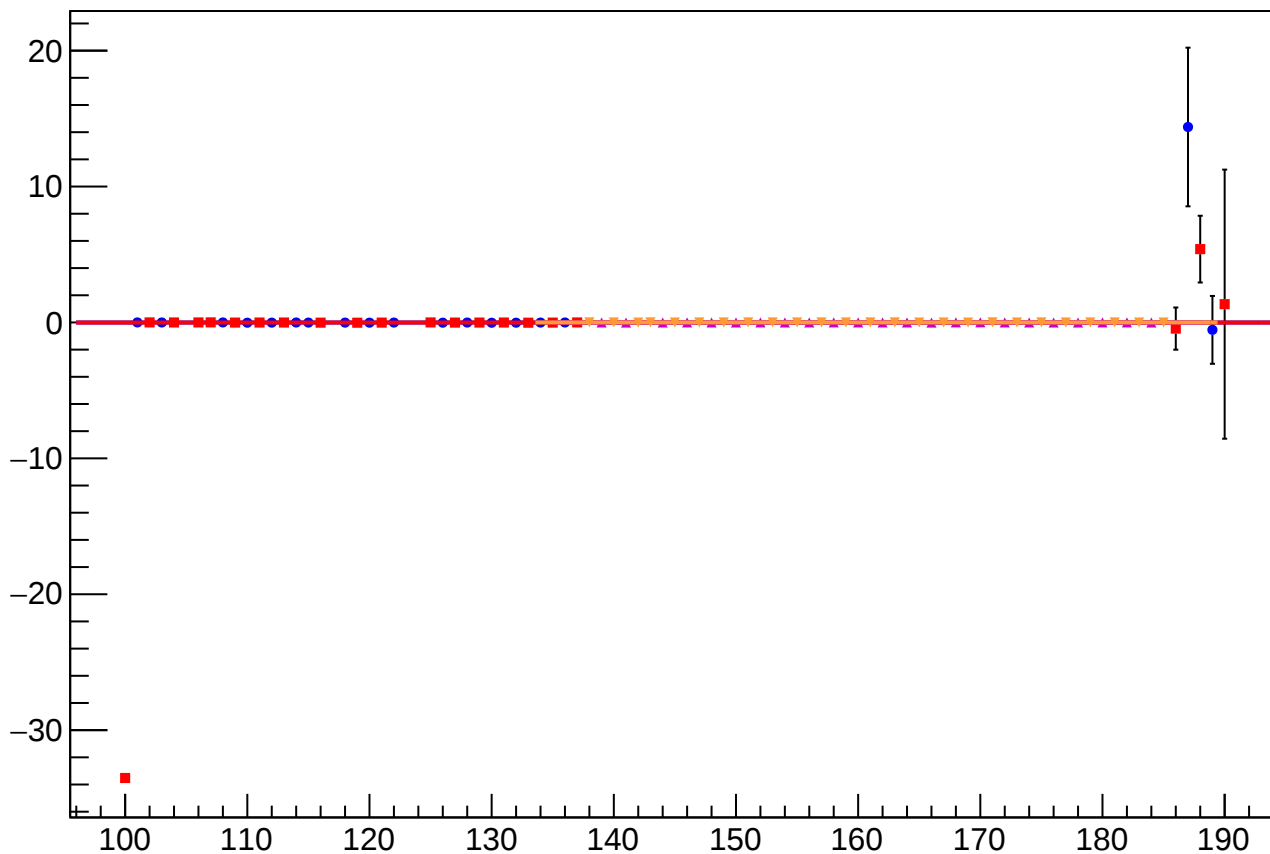
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 30.4/38

In: 0.053 $\pm$ 0.014 χ^2 /NDF:64.8/40

Out: 0.089 $\pm$ 0.014 χ^2 /NDF:36.7/45

All: 0.071 $\pm$ 0.010 χ^2 /NDF: 104.7/86

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 27.6/17

Left Out: 0.001 ± 0.001 χ^2/NDF : 26.1/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 26513.9/20

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 48.6/47

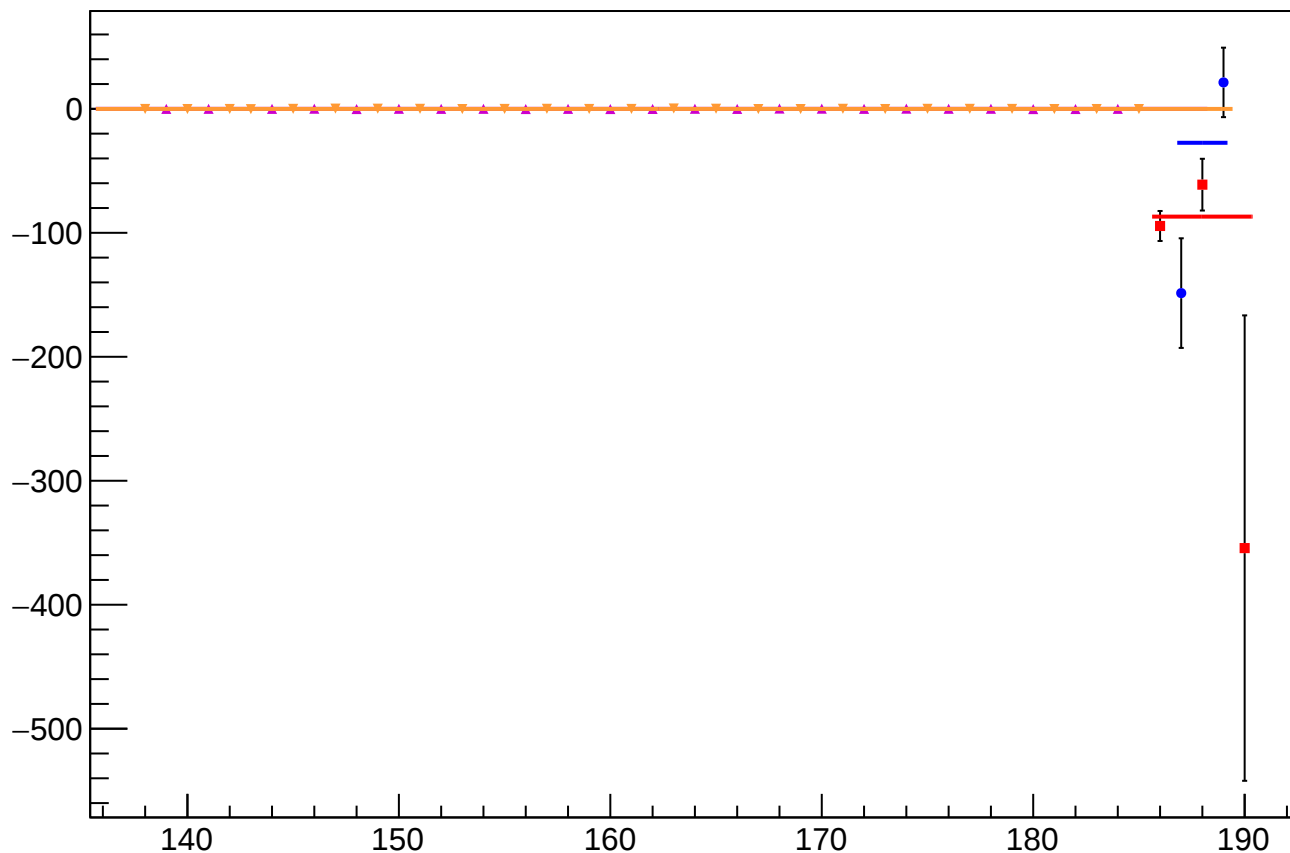
Right: -0.006 ± 0.001 χ^2/NDF : 26541.6/38

In: -0.001 ± 0.001 χ^2/NDF : 61.7/40

Out: -0.001 ± 0.001 χ^2/NDF : 26556.2/45

All: -0.001 ± 0.000 χ^2/NDF : 26618.0/86

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.379 ± 23.669 $\chi^2/\text{NDF}: 10.5/1$

Left Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 41.7/24$

Right Out: -86.935 ± 10.450 $\chi^2/\text{NDF}: 3.9/2$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.034 ± 0.013 $\chi^2/\text{NDF}: 80.7/47$

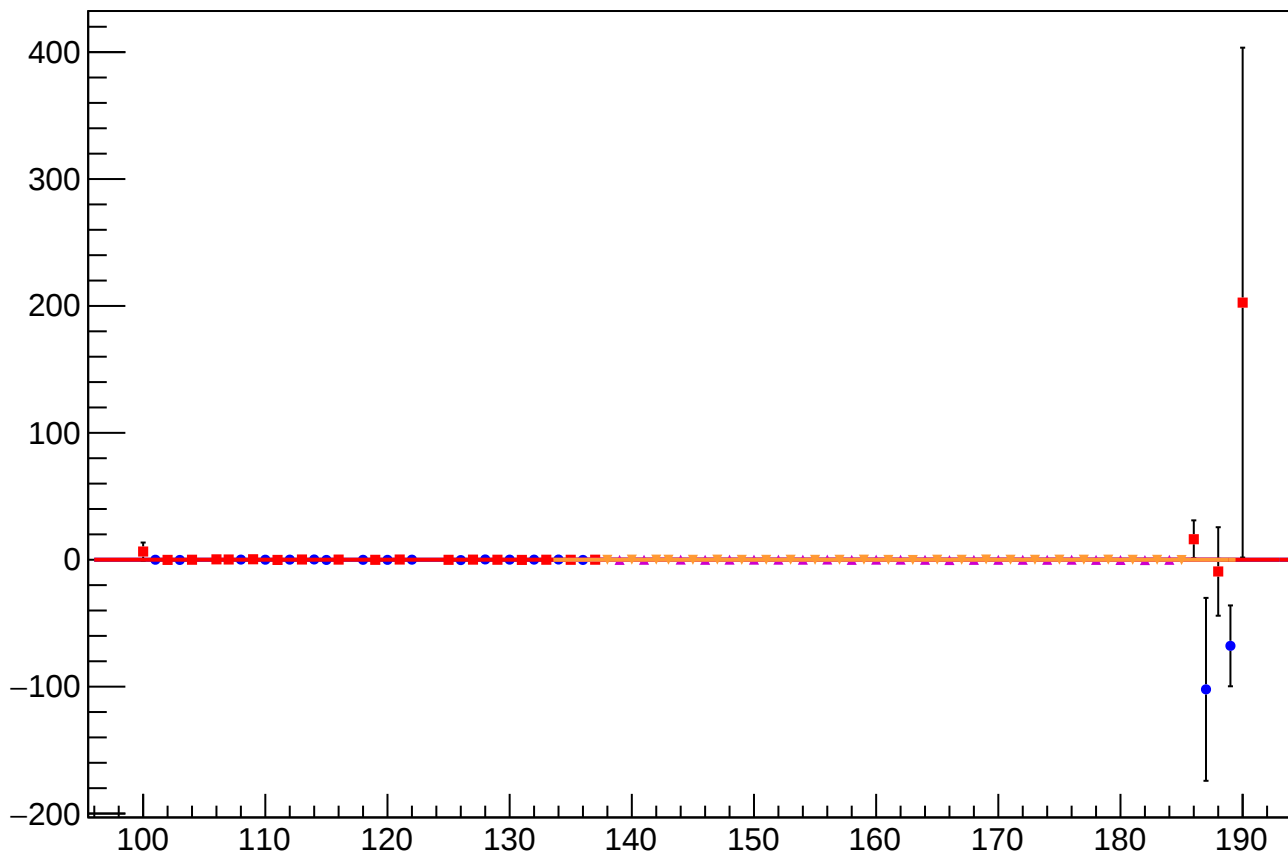
Right: -77.220 ± 9.560 $\chi^2/\text{NDF}: 19.8/4$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 47.0/24$

Out: -0.059 ± 0.018 $\chi^2/\text{NDF}: 114.7/27$

All: -0.035 ± 0.013 $\chi^2/\text{NDF}: 165.7/52$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023 χ^2 /NDF: 31.7/17

Left Out: -0.010 $\pm$ 0.014 χ^2 /NDF:29.7/24

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 31.0/20

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.8/47

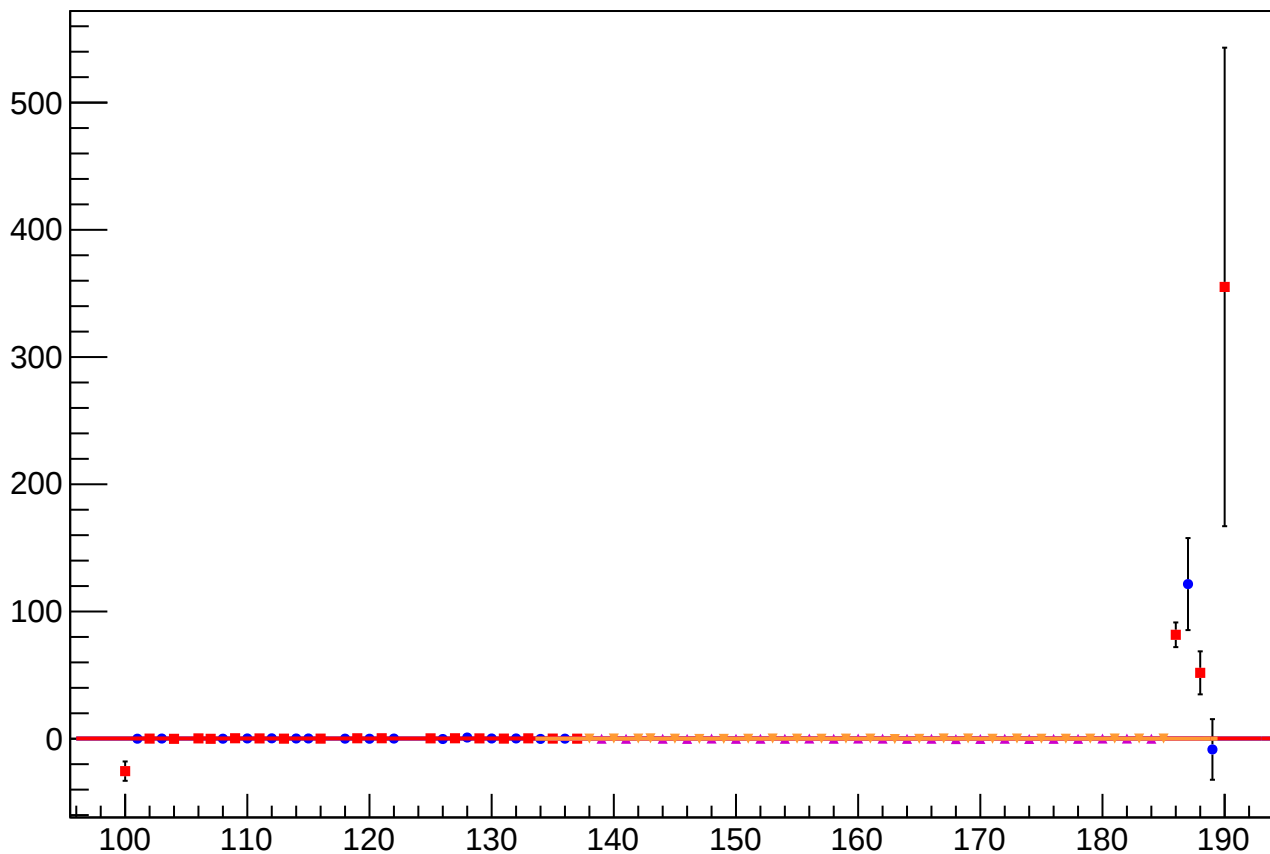
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 63.4/38

In: 0.006 $\pm$ 0.012 χ^2 /NDF:81.3/40

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:63.3/45

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 144.6/86

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 41.1/17

Left Out: 0.055 $\pm$ 0.018 χ^2 /NDF:41.0/24

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 105.5/20

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.038 $\pm$ 0.013 χ^2 /NDF: 78.7/47

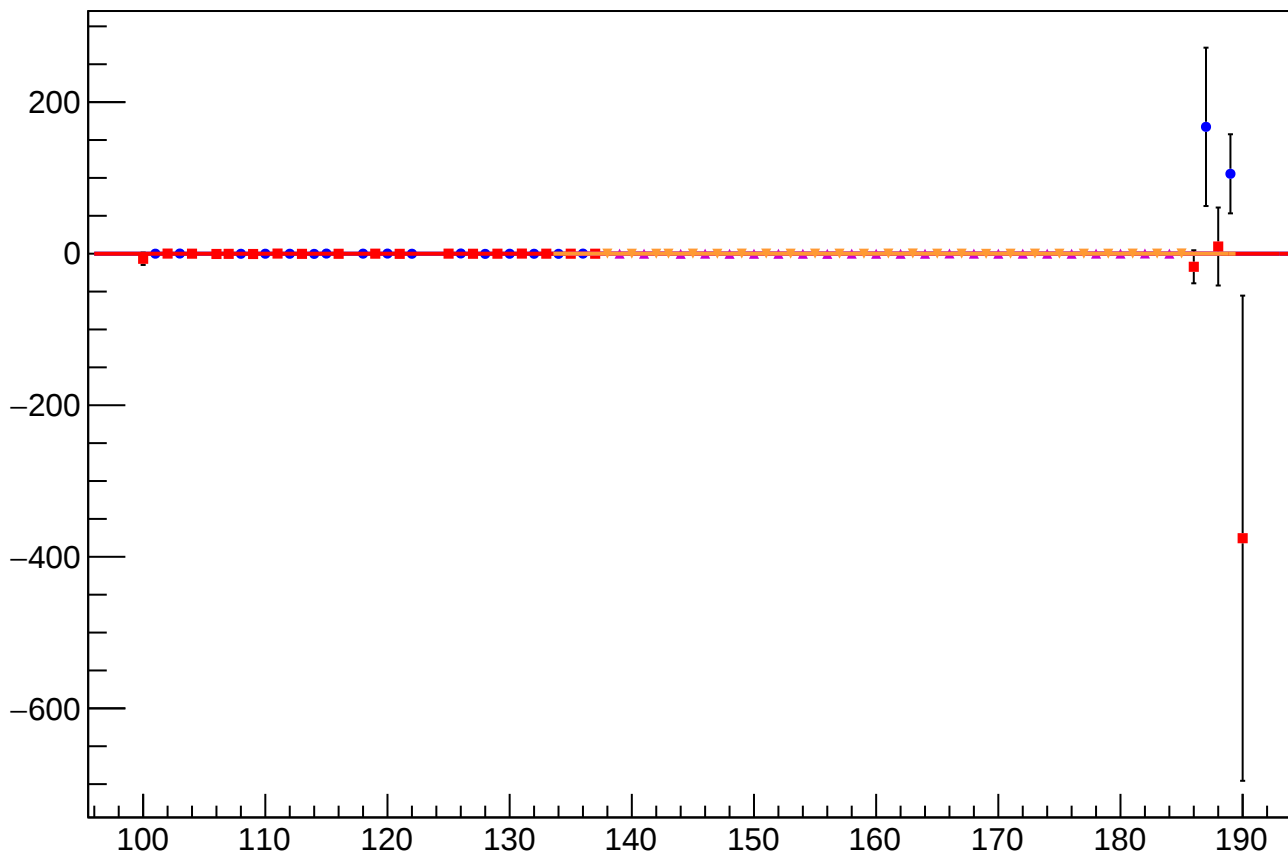
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 147.0/38

In: 0.040 $\pm$ 0.017 χ^2 /NDF:85.5/40

Out: 0.074 $\pm$ 0.016 χ^2 /NDF:155.1/45

All: 0.057 $\pm$ 0.012 χ^2 /NDF: 242.7/86

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 31.3/17

Left Out: 0.021 ± 0.016 χ^2/NDF : 33.4/24

Right Out: -0.046 ± 0.029 χ^2/NDF : 28.3/20

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 84.0/47

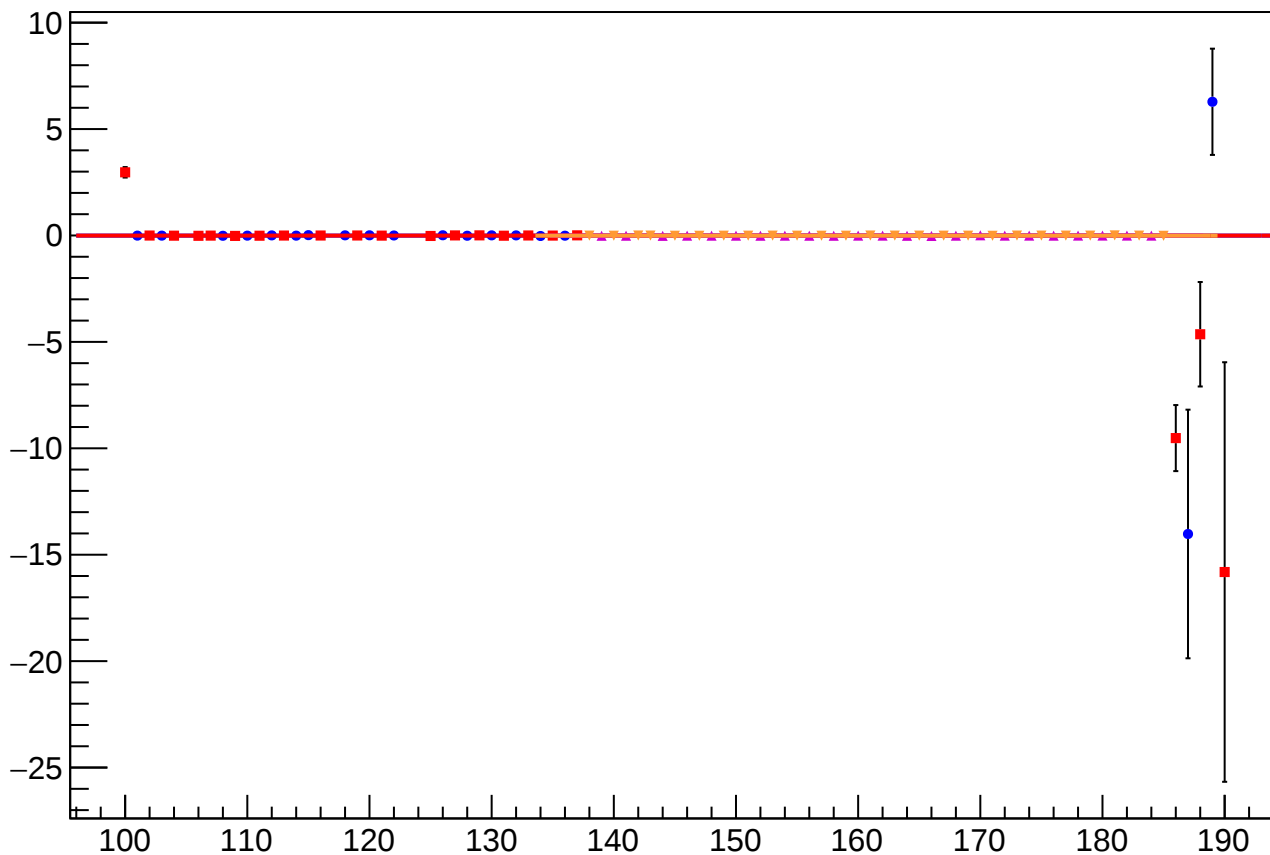
Right: -0.027 ± 0.020 χ^2/NDF : 60.4/38

In: 0.002 ± 0.014 χ^2/NDF : 81.6/40

Out: 0.005 ± 0.014 χ^2/NDF : 65.9/45

All: 0.003 ± 0.010 χ^2/NDF : 147.6/86

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 39.6/17

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.7/24

Right Out: -0.006 ± 0.001 χ^2/NDF : 209.0/20

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 70.3/47

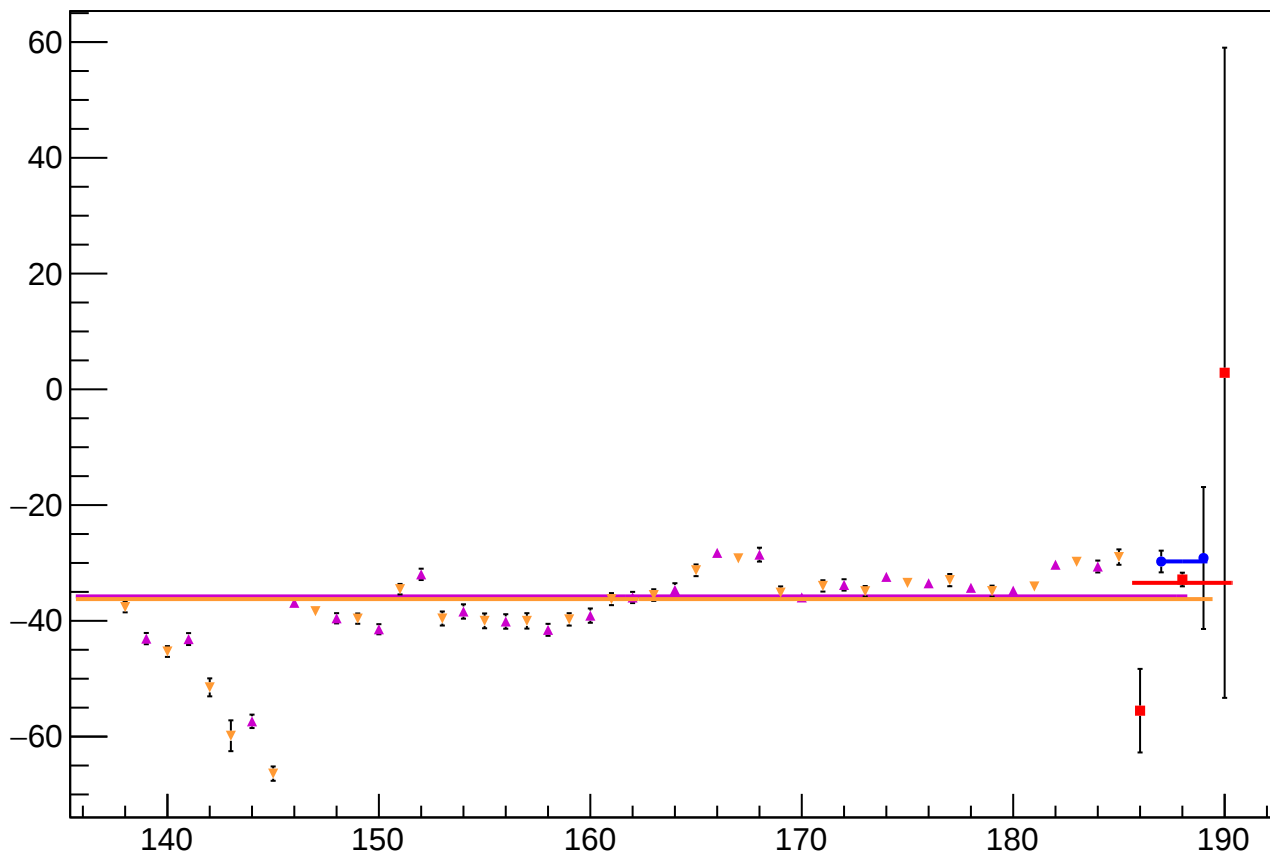
Right: -0.006 ± 0.001 χ^2/NDF : 248.6/38

In: -0.008 ± 0.001 χ^2/NDF : 79.3/40

Out: -0.008 ± 0.001 χ^2/NDF : 243.6/45

All: -0.008 ± 0.000 χ^2/NDF : 323.2/86

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.734 ± 1.853 χ^2/NDF : 0.0/1

Left Out: -36.243 ± 0.191 χ^2/NDF : 1193.9/24

Right Out: -33.435 ± 1.164 χ^2/NDF : 10.0/2

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -36.011 ± 0.135 χ^2/NDF : 2050.9/47

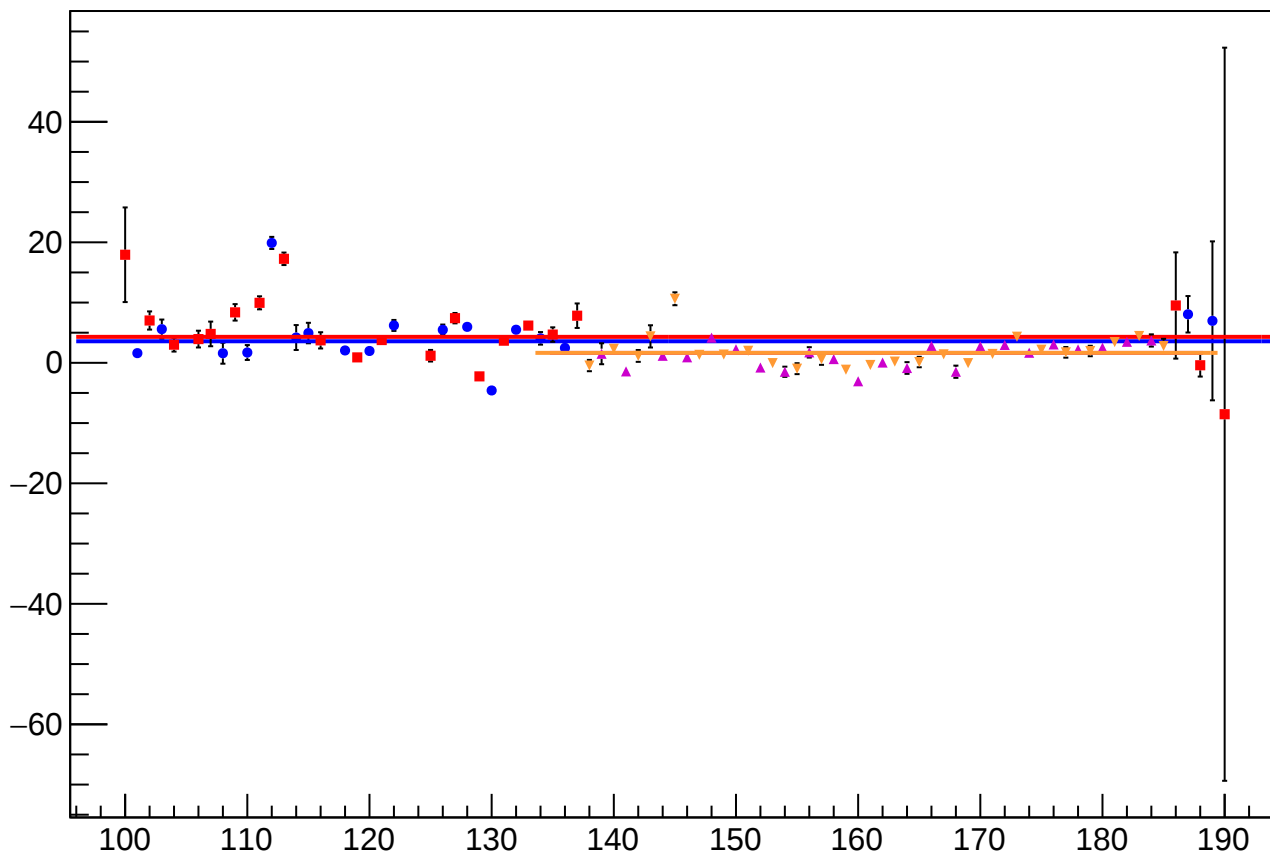
Right: -32.388 ± 0.986 χ^2/NDF : 12.9/4

In: -35.715 ± 0.190 χ^2/NDF : 864.6/24

Out: -36.169 ± 0.189 χ^2/NDF : 1209.6/27

All: -35.944 ± 0.134 χ^2/NDF : 2077.1/52

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.577 $\pm$ 0.220 χ^2 /NDF: 442.2/17

Left Out: 1.652 $\pm$ 0.147 χ^2 /NDF:168.8/24

Right Out: 4.310 $\pm$ 0.224 χ^2 /NDF: 359.9/20

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.647 $\pm$ 0.105 χ^2 /NDF: 332.0/47

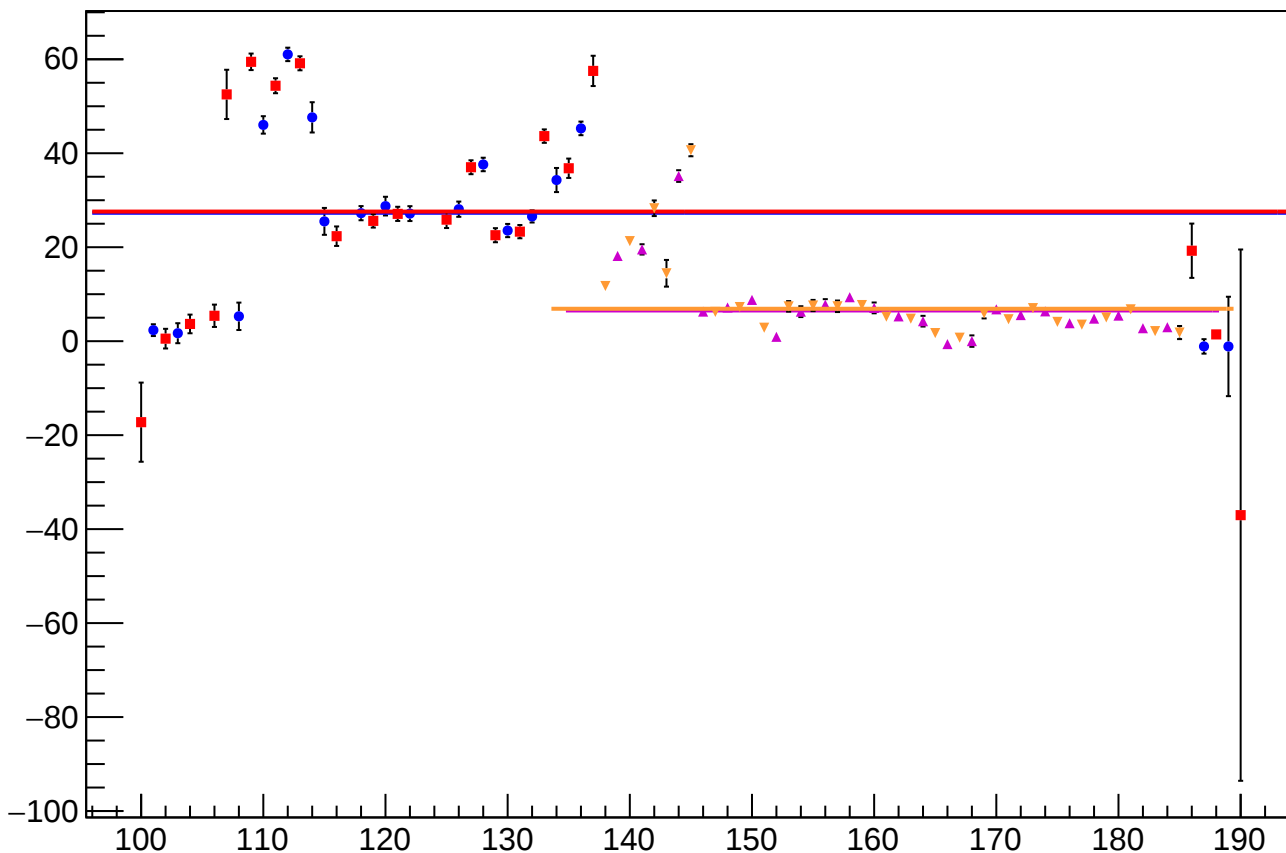
Right: 3.938 $\pm$ 0.157 χ^2 /NDF: 807.6/38

In: 2.252 $\pm$ 0.124 χ^2 /NDF:658.3/40

Out: 2.457 $\pm$ 0.123 χ^2 /NDF:627.3/45

All: 2.355 $\pm$ 0.087 χ^2 /NDF: 1286.9/86

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.331+/-0.405 χ^2/NDF : 1864.1/17

Left Out: 6.900+/-0.191 χ^2/NDF :1302.8/24

Right Out: 27.586+/-0.386 χ^2/NDF : 2566.2/20

Left In: 6.537+/-0.190 χ^2/NDF :1025.1/22

Left: 6.718+/-0.135 χ^2/NDF : 2329.7/47

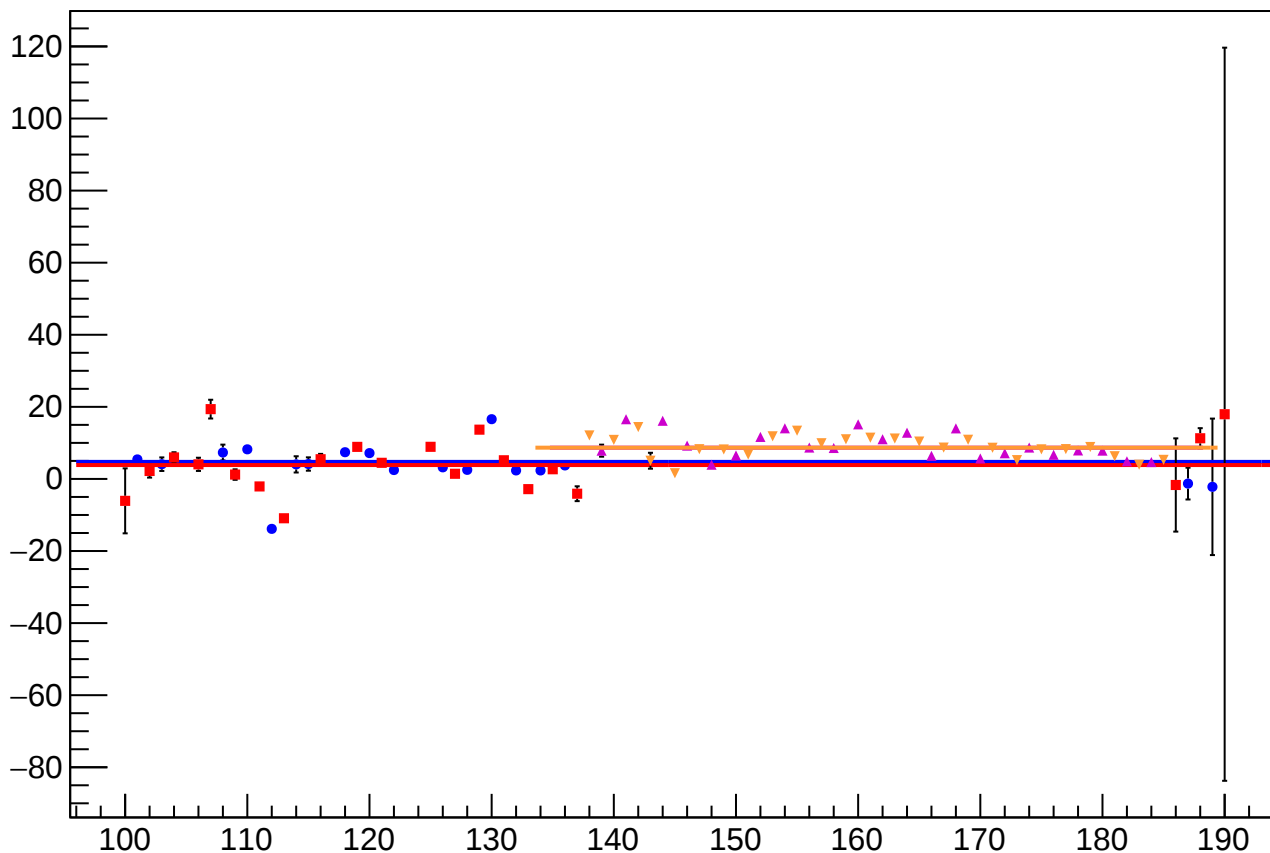
Right: 27.465+/-0.280 χ^2/NDF : 4430.6/38

In: 10.297+/-0.172 χ^2/NDF :5046.5/40

Out: 10.963+/-0.171 χ^2/NDF :6173.7/45

All: 10.632+/-0.121 χ^2/NDF : 11227.7/86

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.729 $\pm$ 0.254 χ^2 /NDF: 548.6/17

Left Out: 8.674 $\pm$ 0.168 χ^2 /NDF:243.7/24

Right Out: 3.850 $\pm$ 0.258 χ^2 /NDF: 572.1/20

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

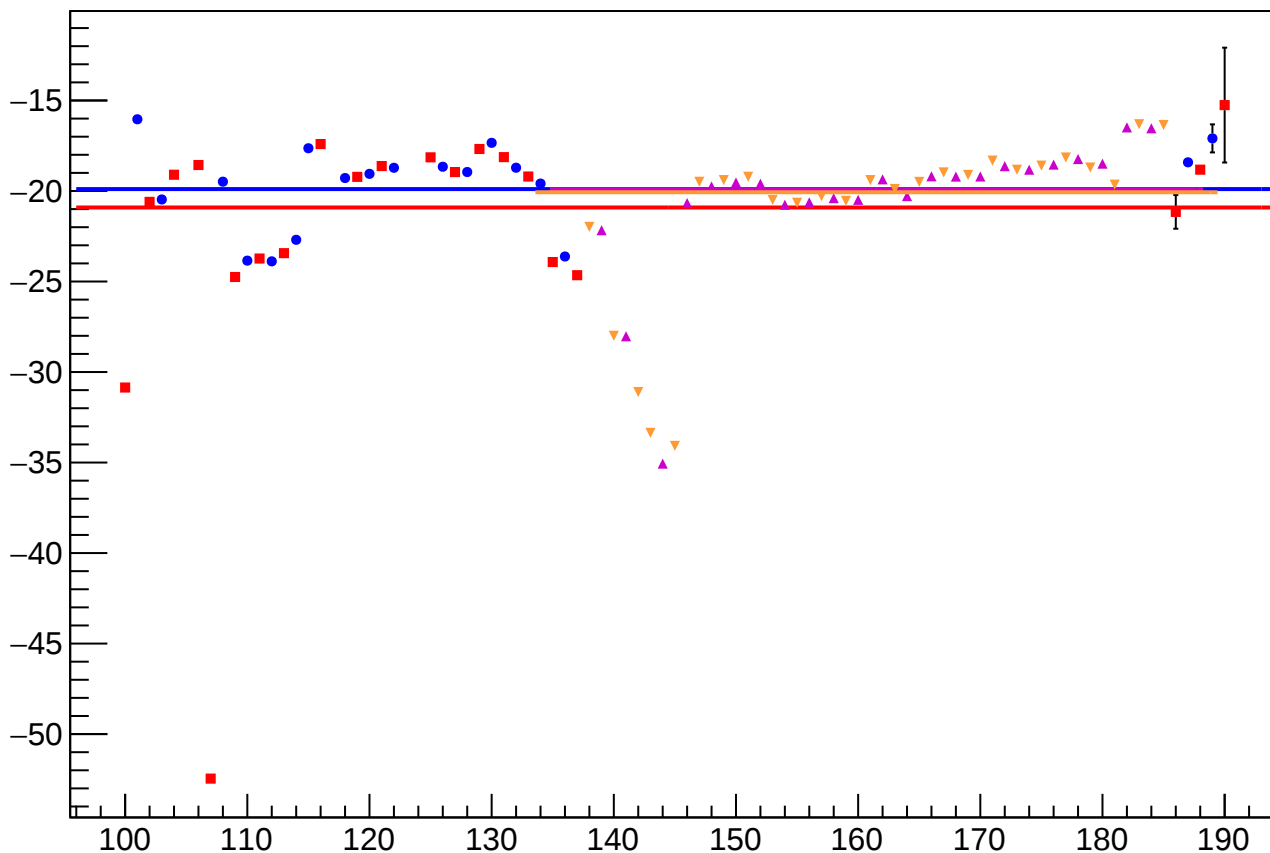
Right: 4.296 $\pm$ 0.181 χ^2 /NDF: 1126.5/38

In: 7.448 $\pm$ 0.141 χ^2 /NDF:1151.2/40

Out: 7.230 $\pm$ 0.141 χ^2 /NDF:1060.9/45

All: 7.339 $\pm$ 0.100 χ^2 /NDF: 2213.4/86

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.895 ± 0.016 χ^2/NDF : 26068.2/17

Left Out: -20.069 ± 0.008 χ^2/NDF : 185373.7/24

Right Out: -20.911 ± 0.016 χ^2/NDF : 94205.8/20

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.983 ± 0.006 χ^2/NDF : 329802.7/47

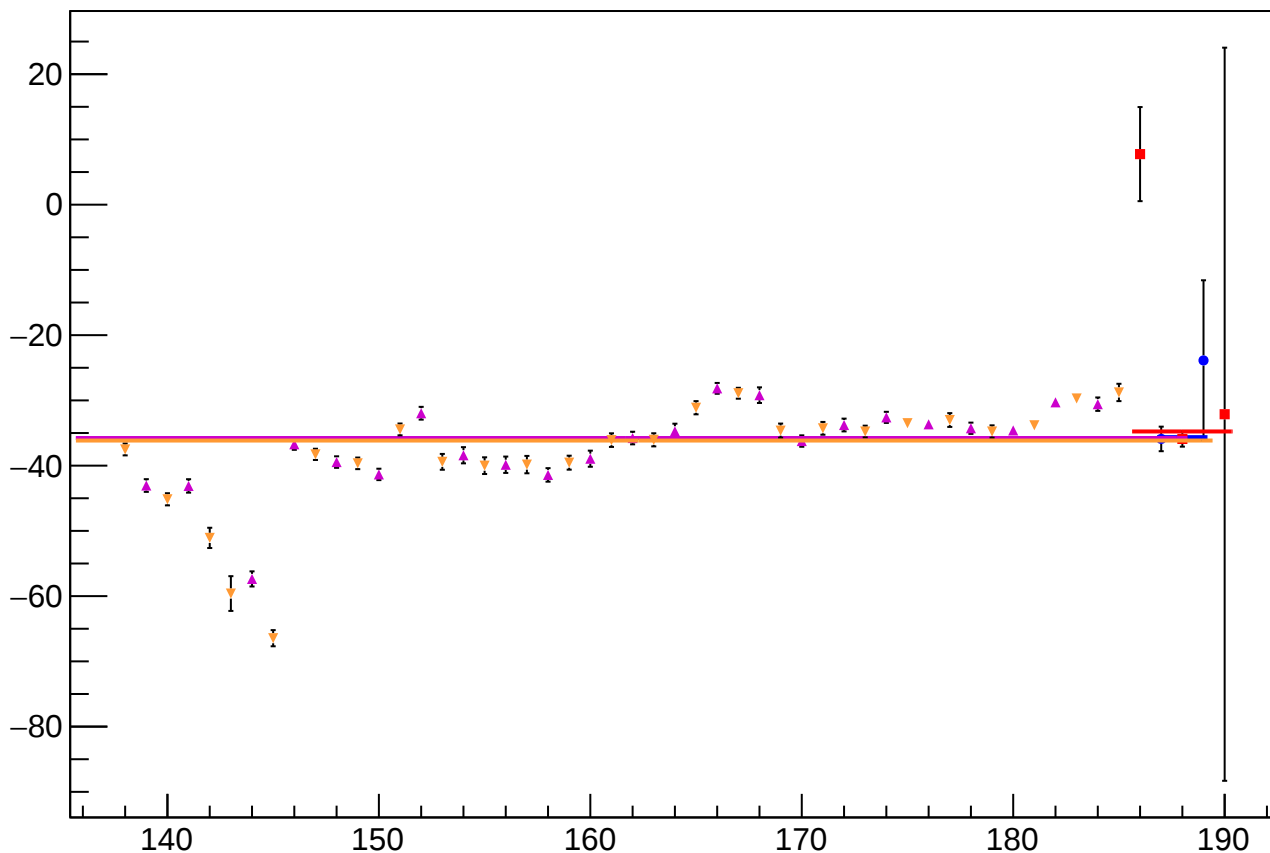
Right: -20.402 ± 0.011 χ^2/NDF : 122385.4/38

In: -19.897 ± 0.007 χ^2/NDF : 170260.2/40

Out: -20.239 ± 0.007 χ^2/NDF : 281889.0/45

All: -20.068 ± 0.005 χ^2/NDF : 453335.0/86

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.630 $\pm$ 1.860 χ^2 /NDF: 0.9/1

Left Out: -36.152 $\pm$ 0.191 χ^2 /NDF:1199.2/24

Right Out: -34.761 $\pm$ 1.167 χ^2 /NDF: 35.7/2

Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.959 $\pm$ 0.135 χ^2 /NDF: 2043.8/47

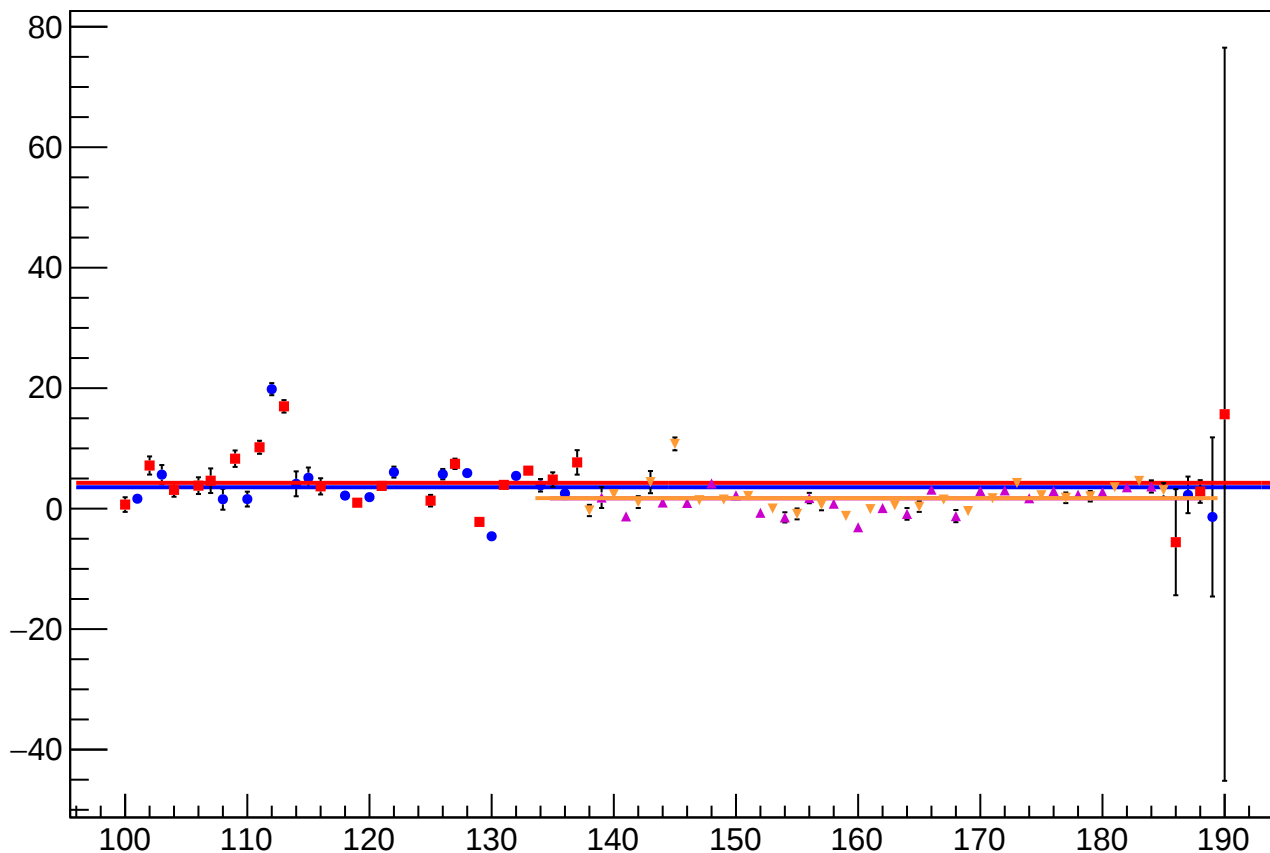
Right: -35.007 $\pm$ 0.989 χ^2 /NDF: 36.8/4

In: -35.765 $\pm$ 0.190 χ^2 /NDF:843.5/24

Out: -36.116 $\pm$ 0.189 χ^2 /NDF:1236.3/27

All: -35.942 $\pm$ 0.134 χ^2 /NDF: 2081.5/52

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.551+/-0.220 χ^2/NDF : 437.4/17

Left Out: 1.741+/-0.147 χ^2/NDF :170.2/24

Right Out: 4.281+/-0.220 χ^2/NDF : 354.0/20

Left In: 1.705+/-0.149 χ^2/NDF :163.0/22

Left: 1.723+/-0.105 χ^2/NDF : 333.2/47

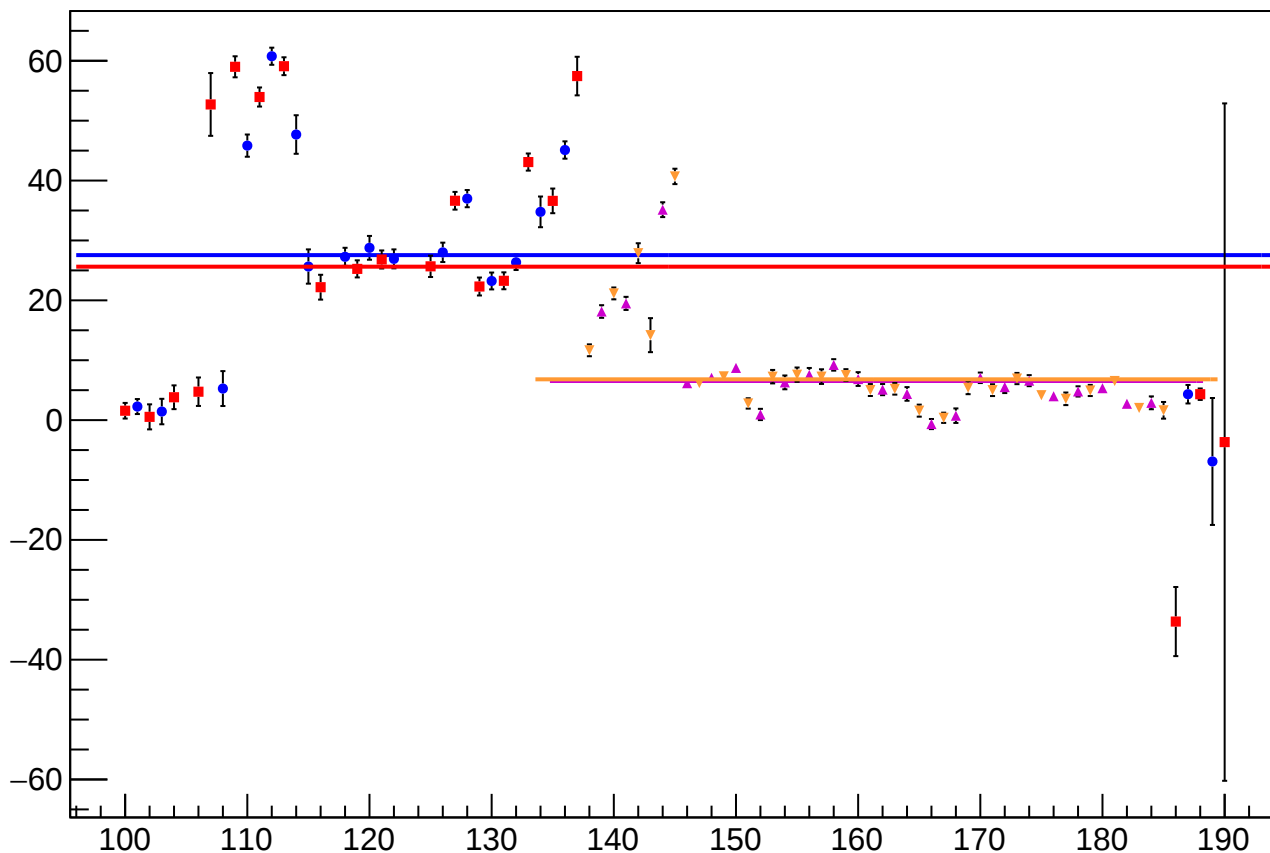
Right: 3.916+/-0.155 χ^2/NDF : 796.9/38

In: 2.288+/-0.124 χ^2/NDF :648.6/40

Out: 2.528+/-0.122 χ^2/NDF :616.5/45

All: 2.409+/-0.087 χ^2/NDF : 1267.0/86

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.552 $\pm$ 0.405 χ^2 /NDF: 1737.2/17

Left Out: 6.813 $\pm$ 0.191 χ^2 /NDF:1304.5/24

Right Out: 25.622 $\pm$ 0.371 χ^2 /NDF: 2832.6/20

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

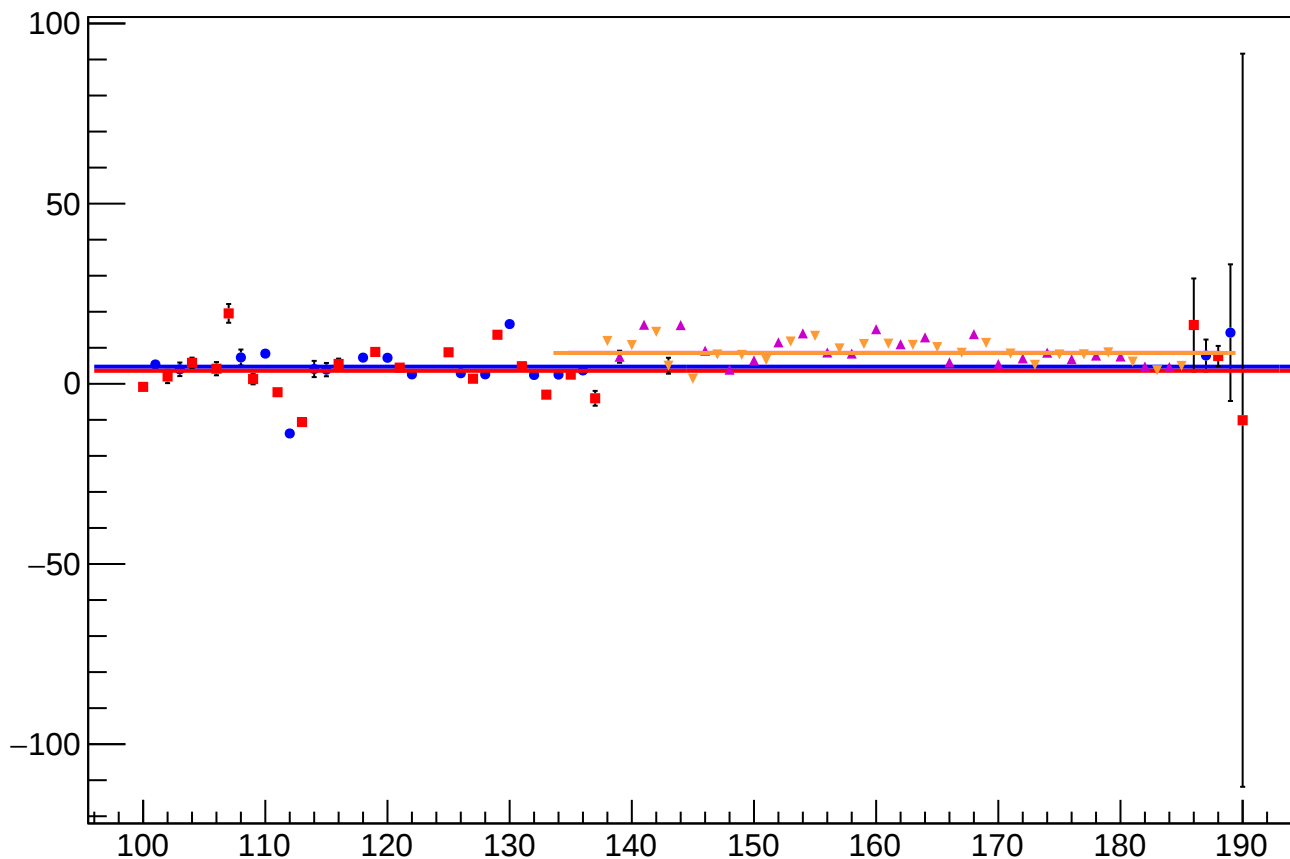
Right: 26.502 $\pm$ 0.273 χ^2 /NDF: 4582.2/38

In: 10.332 $\pm$ 0.172 χ^2 /NDF:4961.6/40

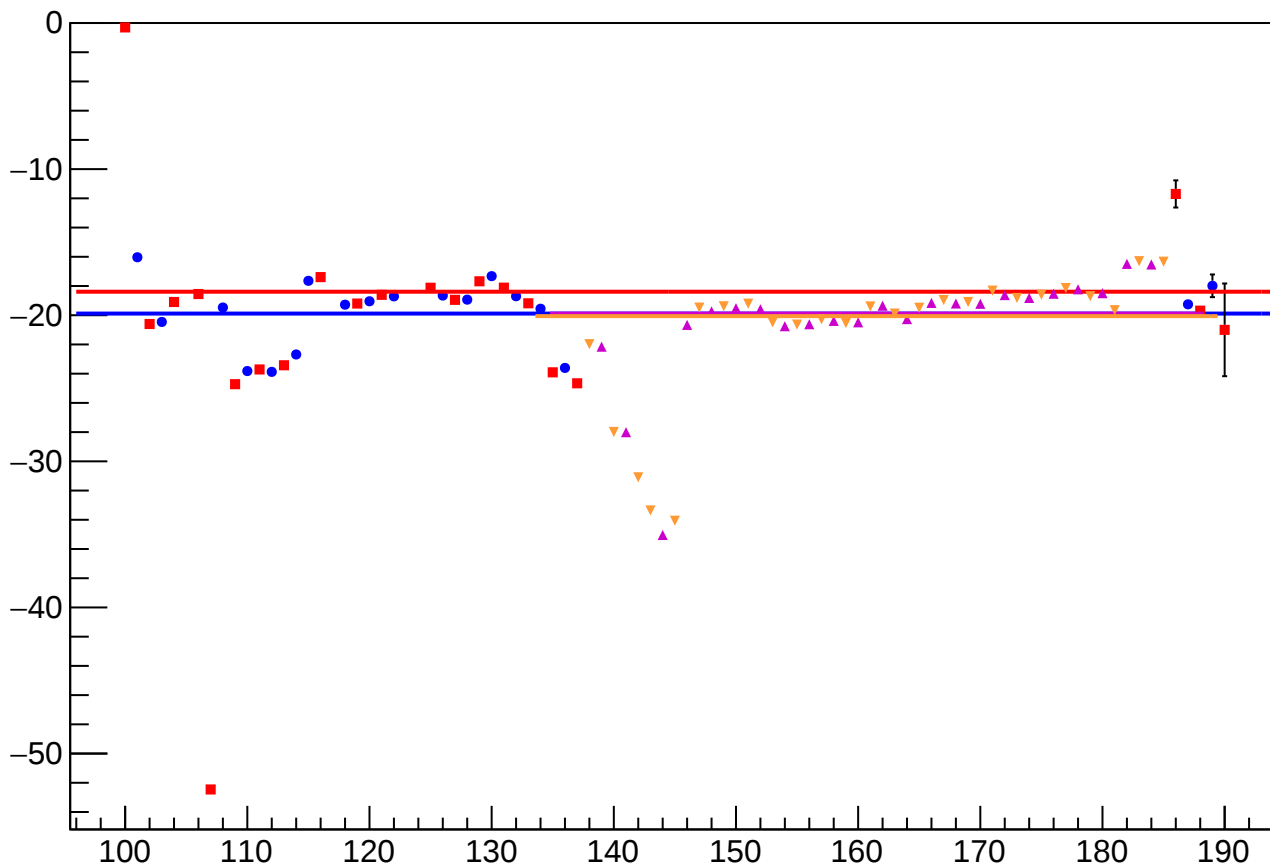
Out: 10.753 $\pm$ 0.170 χ^2 /NDF:6172.2/45

All: 10.546 $\pm$ 0.121 χ^2 /NDF: 11136.8/86

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



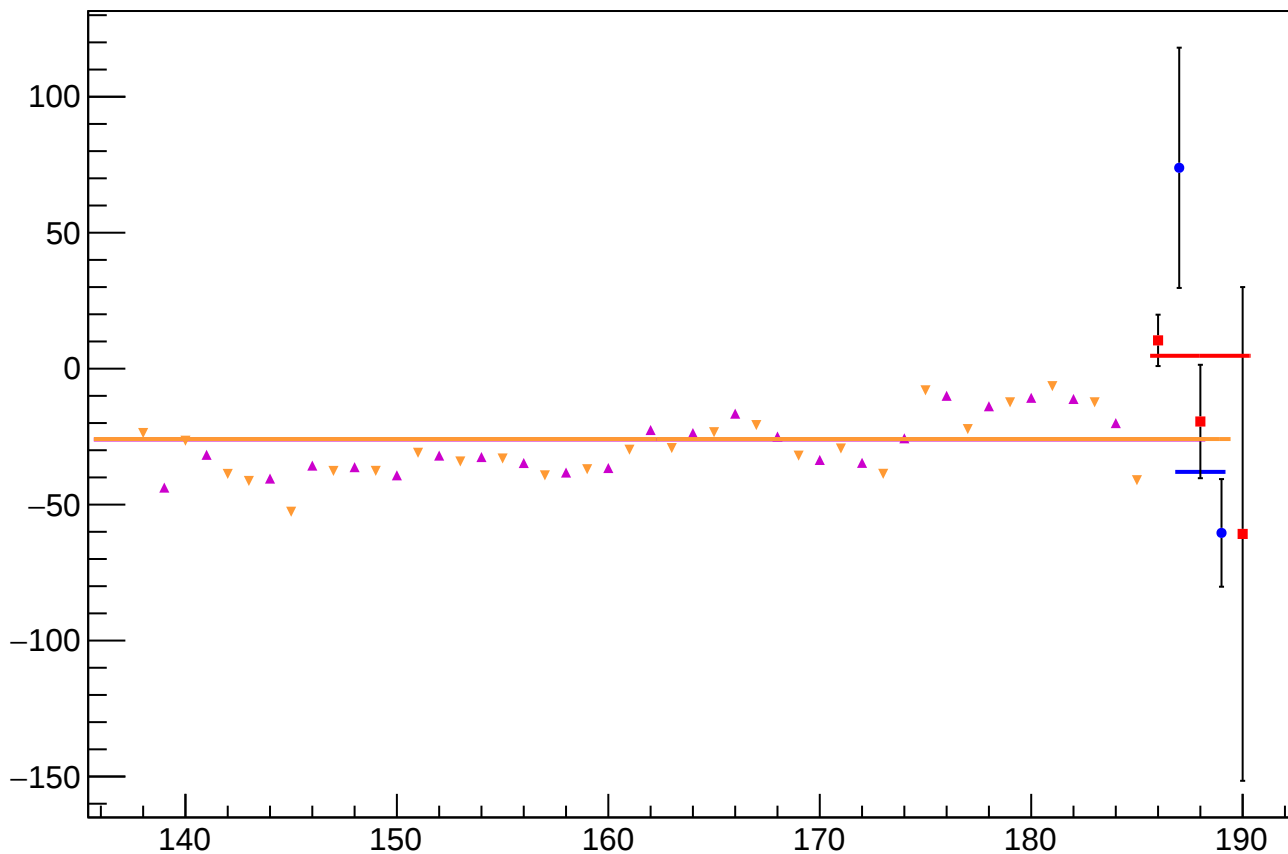
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.886 ± 0.016 χ^2/NDF : 26021.4/17
 Left Out: -20.061 ± 0.008 χ^2/NDF : 185580.2/24
 Right Out: -18.390 ± 0.015 χ^2/NDF : 301143.8/20
 Left In: -19.890 ± 0.008 χ^2/NDF : 144055.2/22

Left: -19.976 ± 0.006 χ^2/NDF : 329872.6/47
 Right: -19.092 ± 0.011 χ^2/NDF : 332032.6/38
 In: -19.890 ± 0.007 χ^2/NDF : 170076.7/40
 Out: -19.689 ± 0.007 χ^2/NDF : 496782.7/45
 All: -19.788 ± 0.005 χ^2/NDF : 667274.8/86

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -37.963 ± 18.063 χ^2/NDF : 7.7/1

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 4.735 ± 8.567 χ^2/NDF : 2.2/2

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

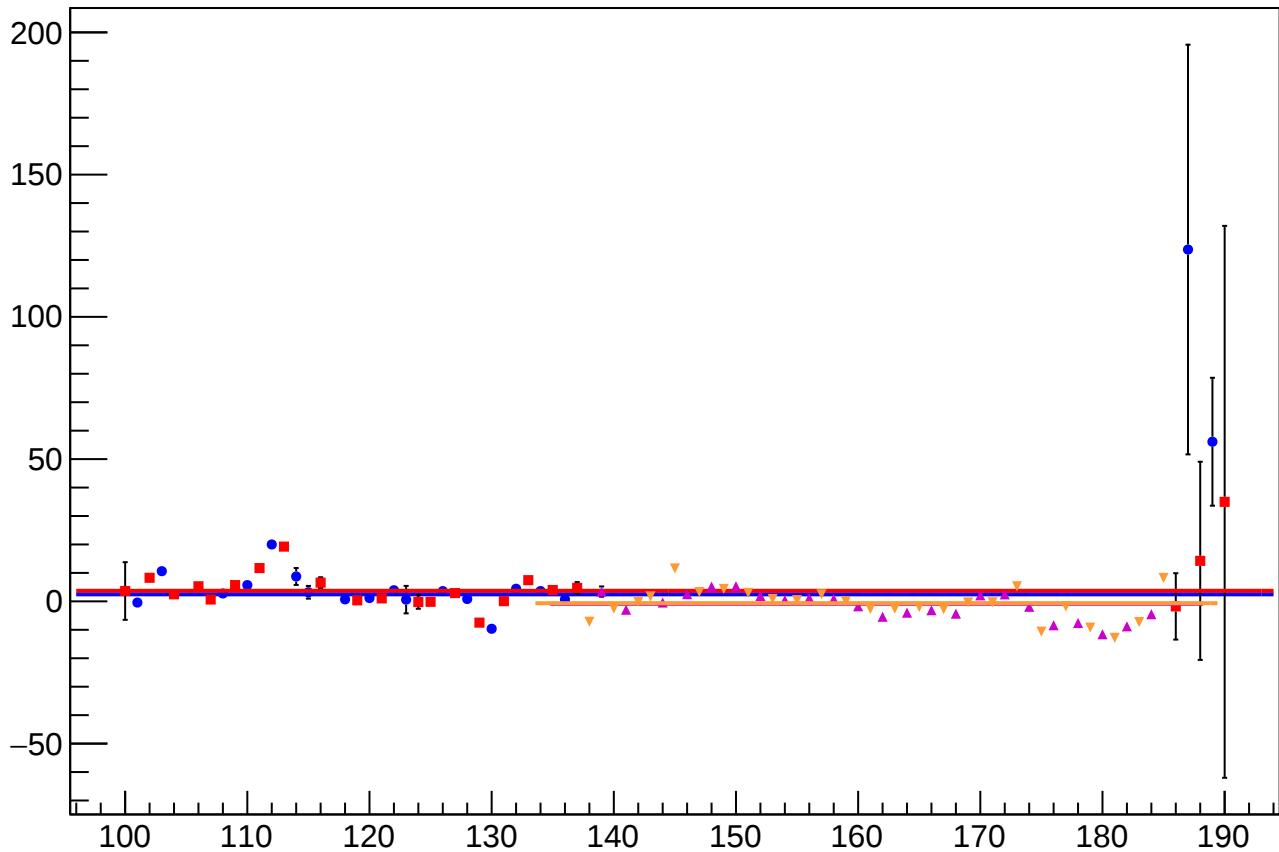
Right: -3.106 ± 7.740 χ^2/NDF : 14.5/4

In: -26.053 ± 0.195 χ^2/NDF : 3287.6/24

Out: -25.869 ± 0.192 χ^2/NDF : 4173.0/27

All: -25.960 ± 0.137 χ^2/NDF : 7461.0/52

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.467 ± 0.315 χ^2/NDF : 302.8/18

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.710 ± 0.327 χ^2/NDF : 269.5/21

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

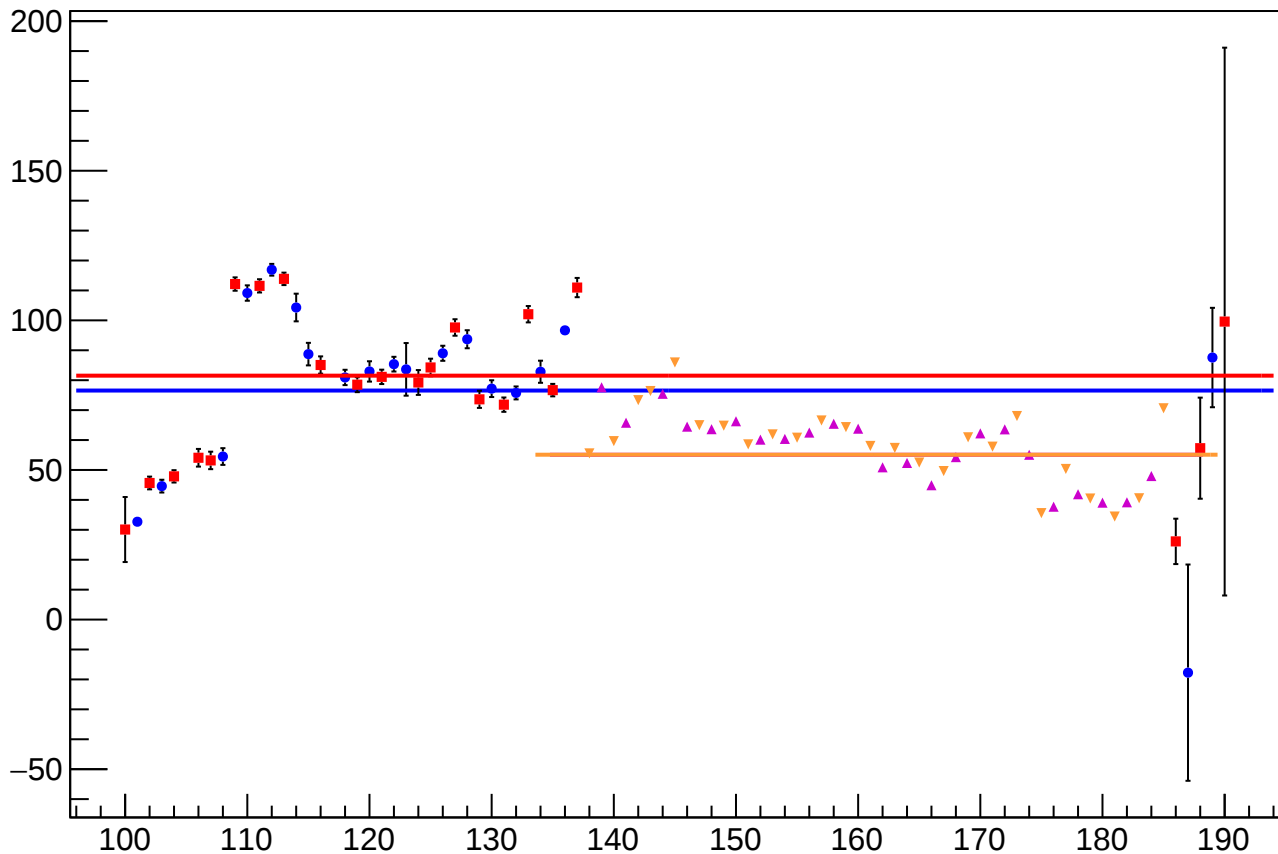
Right: 3.066 ± 0.227 χ^2/NDF : 579.9/40

In: -0.244 ± 0.136 χ^2/NDF : 1460.5/41

Out: 0.074 ± 0.133 χ^2/NDF : 1739.1/46

All: -0.082 ± 0.095 χ^2/NDF : 3202.4/88

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.544 $\pm$ 0.576 χ^2 /NDF: 2260.0/18

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.518 $\pm$ 0.591 χ^2 /NDF: 1626.6/21

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

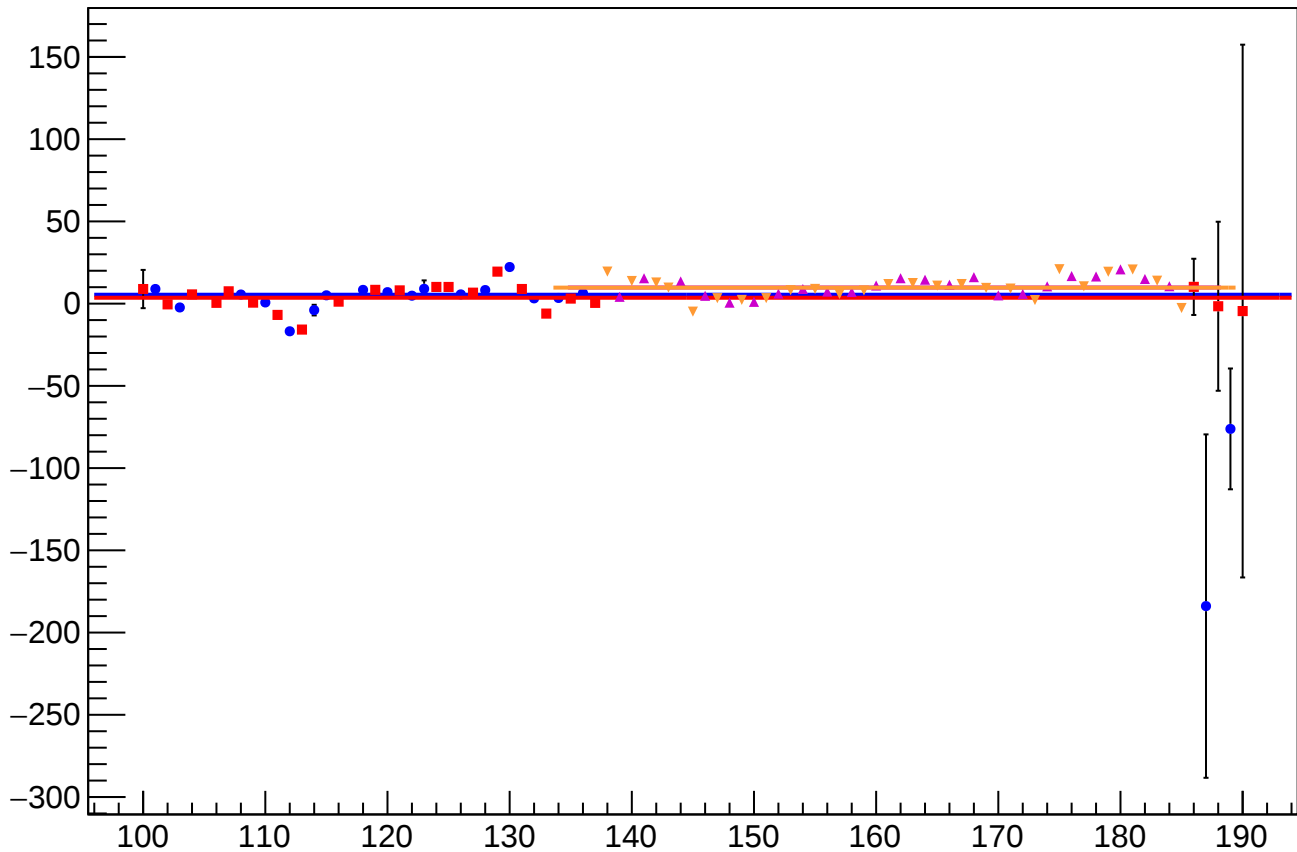
Right: 78.970 $\pm$ 0.413 χ^2 /NDF: 3923.0/40

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7209.8/41

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8016.2/46

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15228.1/88

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.418 $\pm$ 0.361 χ^2 /NDF: 393.9/18

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.585 $\pm$ 0.375 χ^2 /NDF: 421.8/21

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

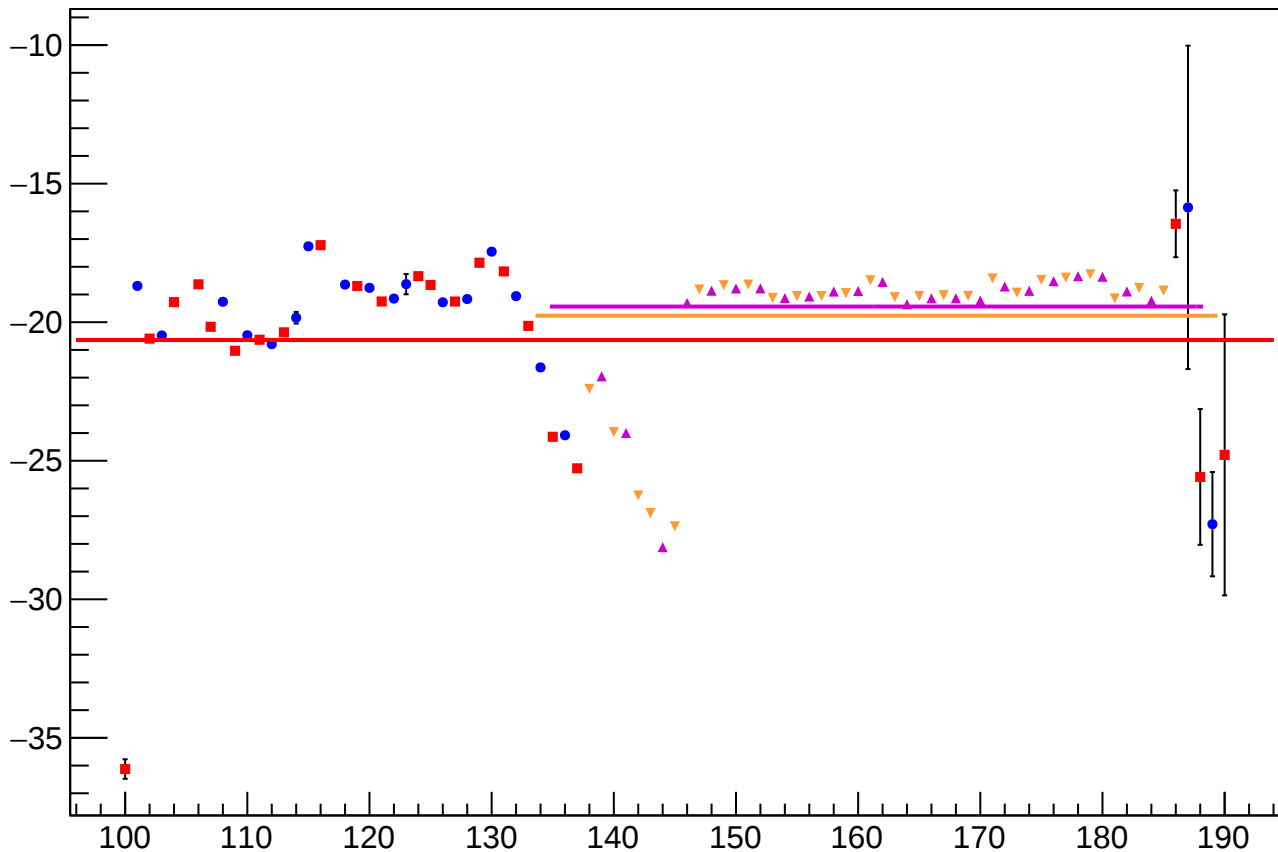
Right: 4.538 $\pm$ 0.260 χ^2 /NDF: 828.0/40

In: 8.994 $\pm$ 0.155 χ^2 /NDF:1673.1/41

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2095.8/46

All: 8.852 $\pm$ 0.109 χ^2 /NDF: 3770.5/88

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.645 $\pm$ 0.019 χ^2 /NDF: 12437.3/18

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13802.7/21

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

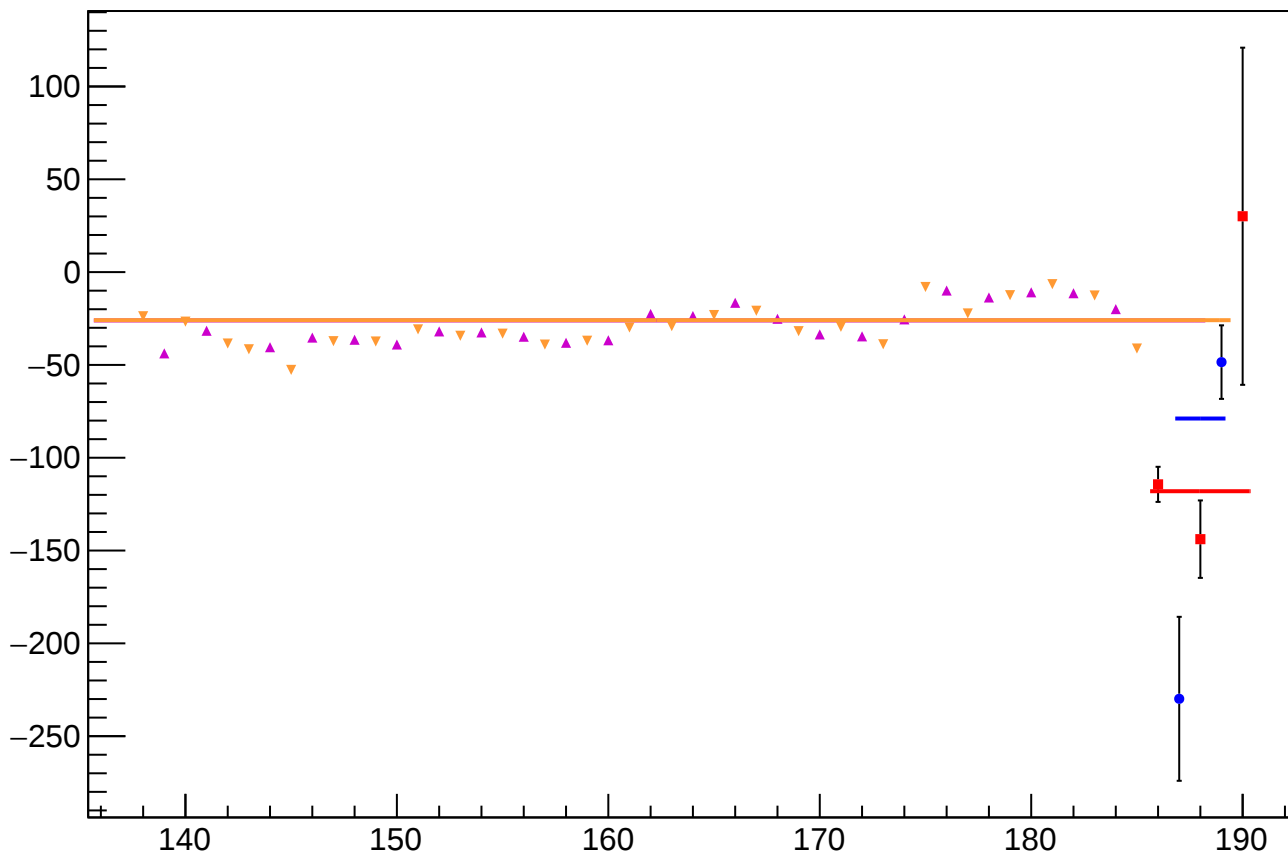
Right: -20.642 $\pm$ 0.014 χ^2 /NDF: 26240.0/40

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68948.6/41

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107144.2/46

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176821.3/88

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -78.877 ± 18.079 $\chi^2/\text{NDF}: 14.0/1$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -118.038 ± 8.573 $\chi^2/\text{NDF}: 4.3/2$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

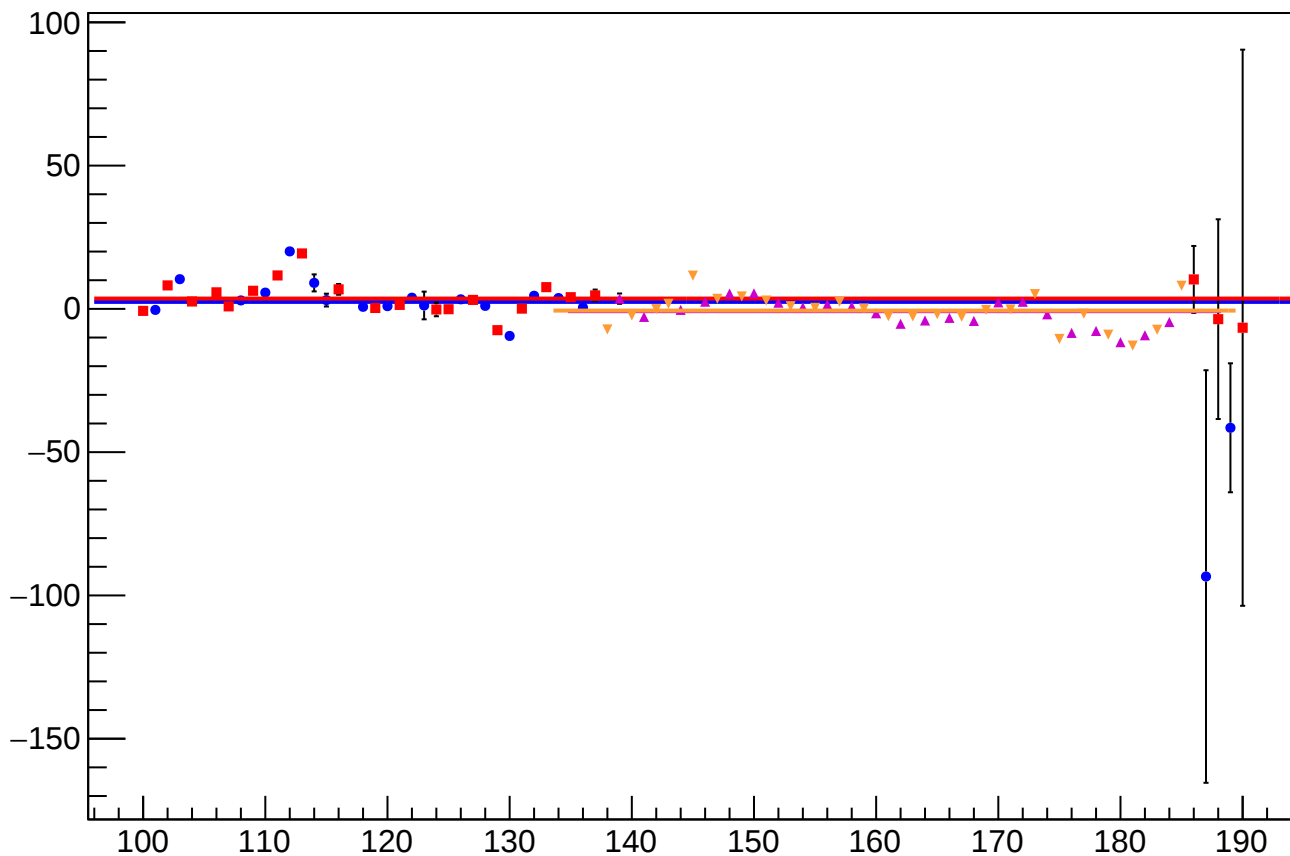
Right: -110.849 ± 7.746 $\chi^2/\text{NDF}: 22.2/4$

In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3269.3/24$

Out: -25.945 ± 0.192 $\chi^2/\text{NDF}: 4247.4/27$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7516.8/52$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.445 $\pm$ 0.315 χ^2 /NDF: 297.9/18

Left Out: -0.596 $\pm$ 0.146 χ^2 /NDF:1310.7/24

Right Out: 3.596 $\pm$ 0.318 χ^2 /NDF: 280.4/21

Left In: -0.795 $\pm$ 0.151 χ^2 /NDF:1106.3/22

Left: -0.693 $\pm$ 0.105 χ^2 /NDF: 2417.9/47

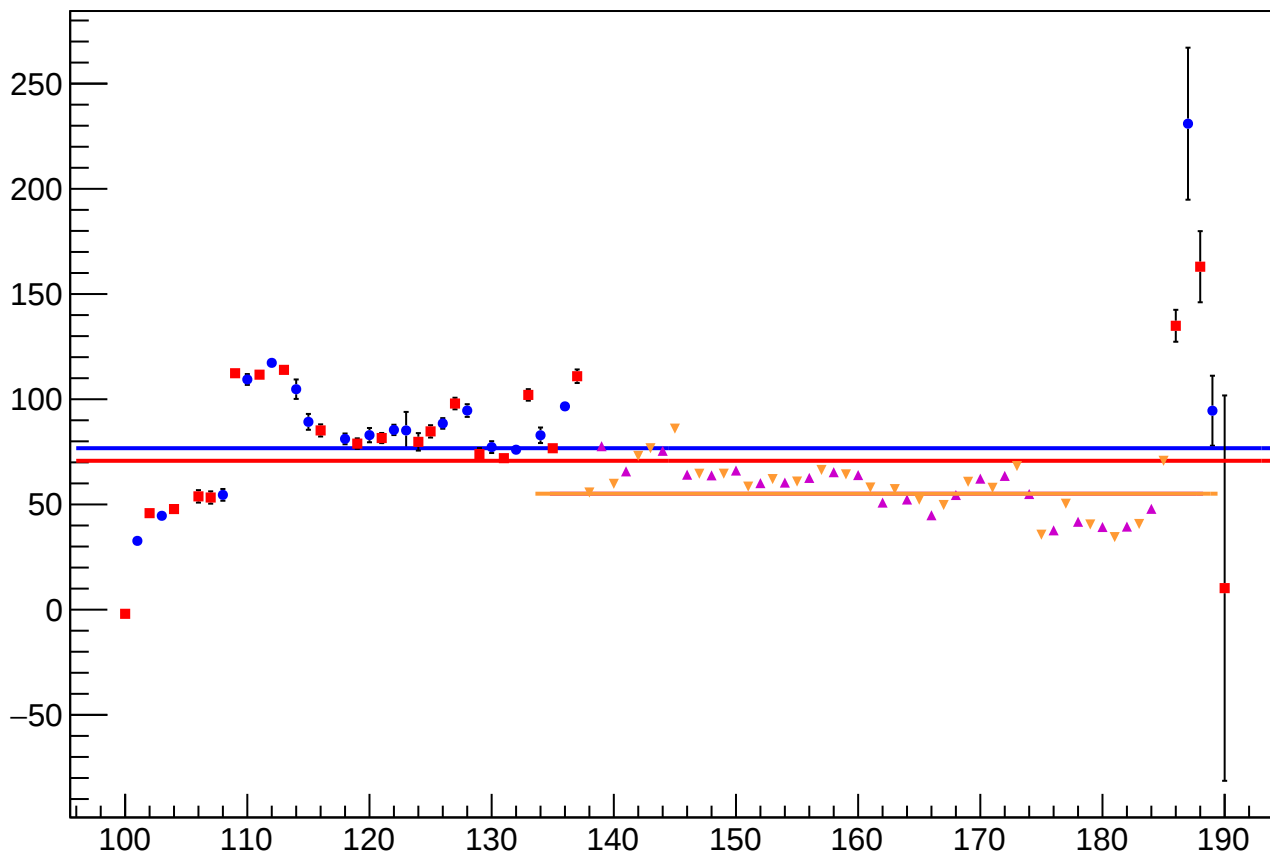
Right: 3.015 $\pm$ 0.224 χ^2 /NDF: 584.9/40

In: -0.192 $\pm$ 0.136 χ^2 /NDF:1490.3/41

Out: 0.136 $\pm$ 0.133 χ^2 /NDF:1734.6/46

All: -0.024 $\pm$ 0.095 χ^2 /NDF: 3227.9/88

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.735 $\pm$ 0.577 χ^2/NDF : 2284.2/18

Left Out: 55.111 $\pm$ 0.192 χ^2/NDF : 4560.2/24

Right Out: 70.749 $\pm$ 0.549 χ^2/NDF : 4489.6/21

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

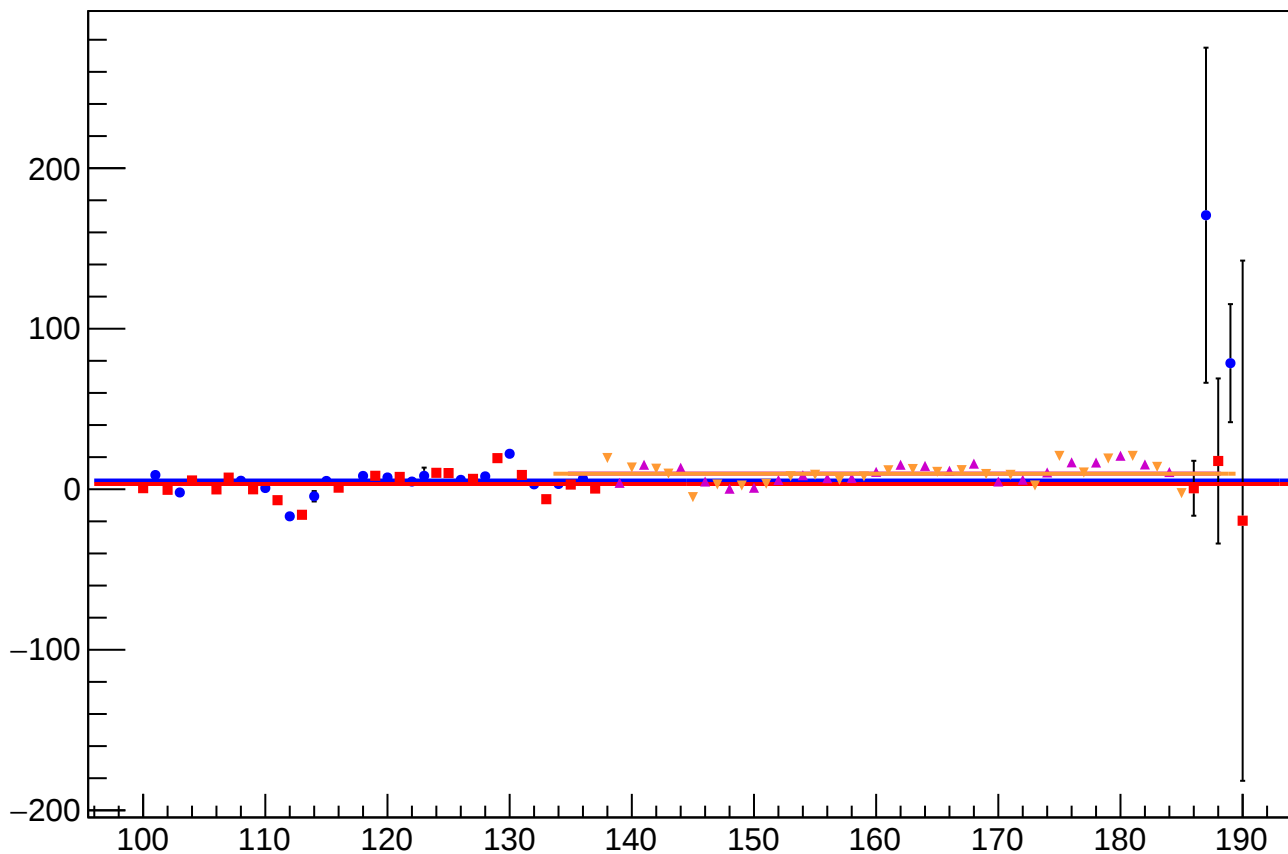
Right: 73.593 $\pm$ 0.398 χ^2/NDF : 6830.3/40

In: 57.285 $\pm$ 0.184 χ^2/NDF : 7214.0/41

Out: 56.810 $\pm$ 0.181 χ^2/NDF : 9773.6/46

All: 57.044 $\pm$ 0.129 χ^2/NDF : 16991.0/88

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.437 ± 0.361 χ^2/NDF : 390.7/18

Left Out: 9.675 ± 0.168 χ^2/NDF : 1441.3/24

Right Out: 3.279 ± 0.366 χ^2/NDF : 425.2/21

Left In: 9.738 ± 0.172 χ^2/NDF : 1191.1/22

Left: 9.706 ± 0.120 χ^2/NDF : 2632.6/47

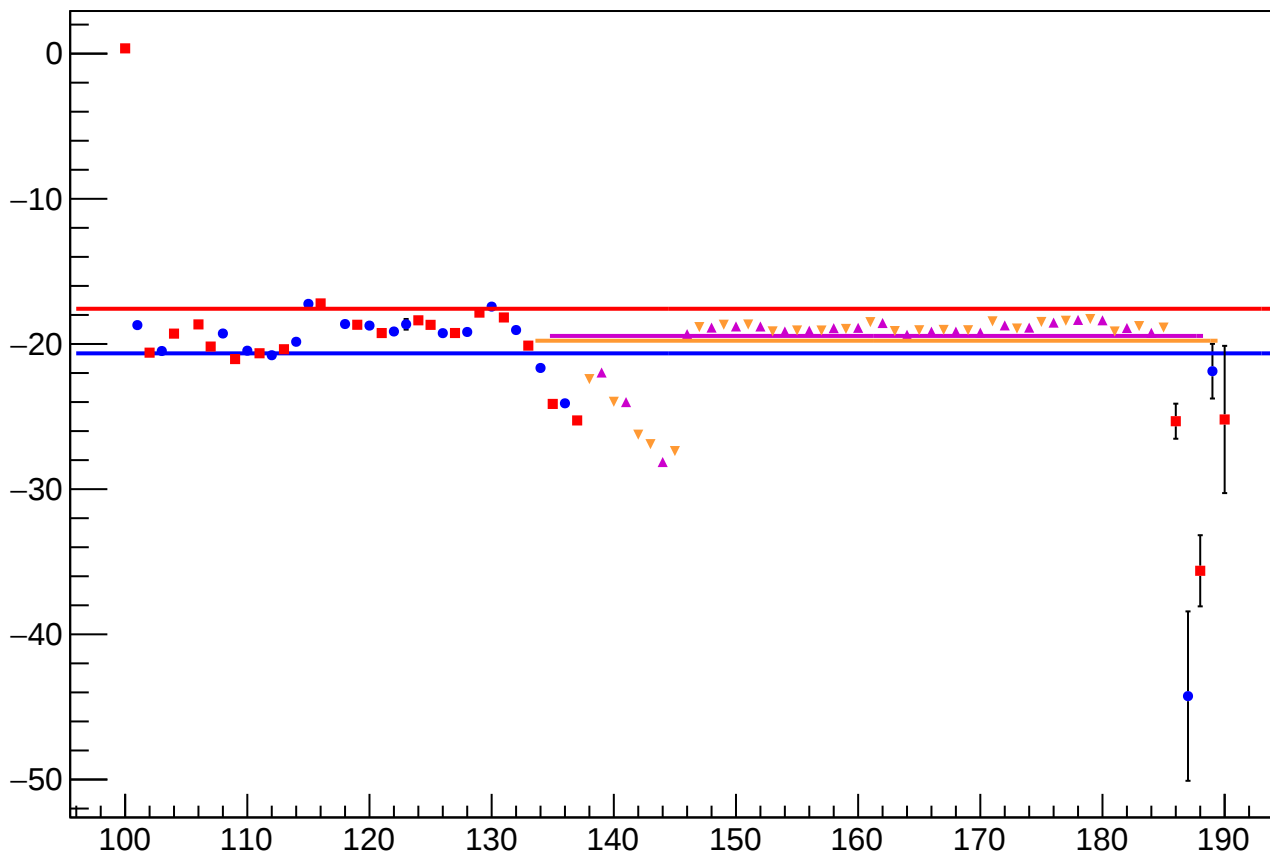
Right: 4.371 ± 0.257 χ^2/NDF : 833.5/40

In: 8.944 ± 0.155 χ^2/NDF : 1697.5/41

Out: 8.562 ± 0.153 χ^2/NDF : 2119.4/46

All: 8.750 ± 0.109 χ^2/NDF : 3820.0/88

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.645 ± 0.019 $\chi^2/\text{NDF}: 12479.5/18$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.574 ± 0.018 $\chi^2/\text{NDF}: 178415.7/21$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

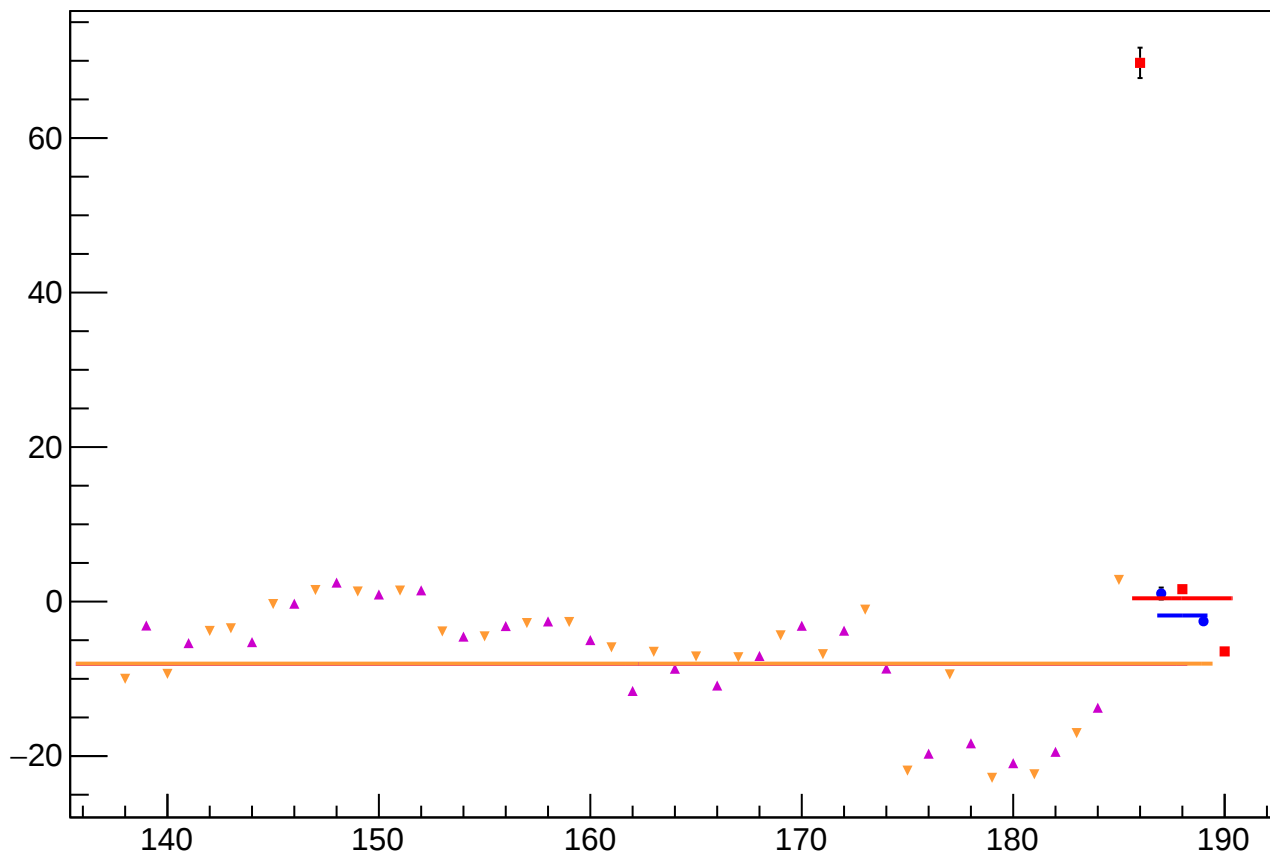
Right: -19.002 ± 0.013 $\chi^2/\text{NDF}: 204363.3/40$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68894.1/41$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282415.6/46$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351672.5/88$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

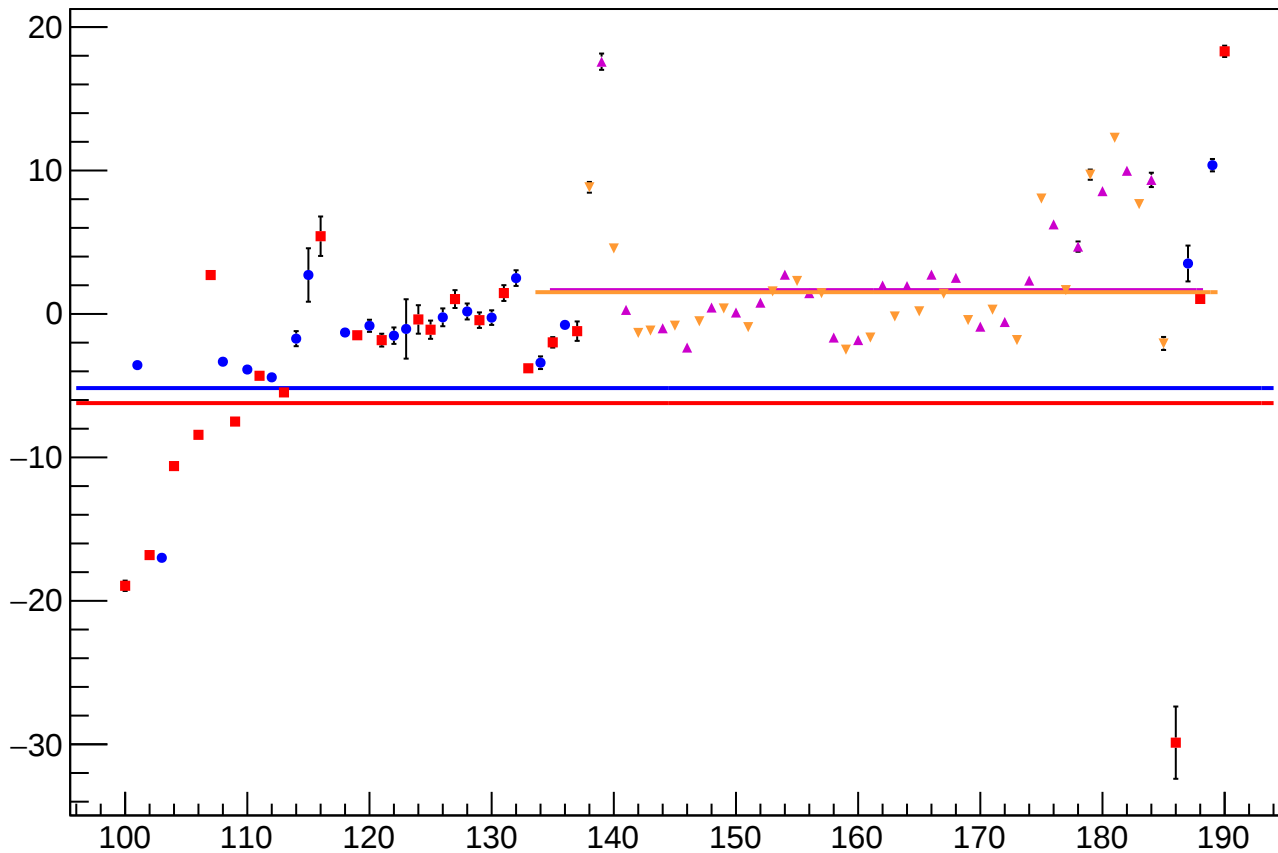


Right In: -1.801 ± 0.353 $\chi^2/\text{NDF}: 17.2/1$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: 0.424 ± 0.164 $\chi^2/\text{NDF}: 1641.9/2$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: 0.027 ± 0.149 $\chi^2/\text{NDF}: 1691.8/4$
 In: -7.827 ± 0.070 $\chi^2/\text{NDF}: 10862.8/24$
 Out: -6.727 ± 0.065 $\chi^2/\text{NDF}: 16446.1/27$

All: -7.230 ± 0.048 $\chi^2/\text{NDF}: 27441.2/52$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.168 ± 0.054 χ^2/NDF : 10593.0/18

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -6.215 ± 0.057 χ^2/NDF : 17128.1/21

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

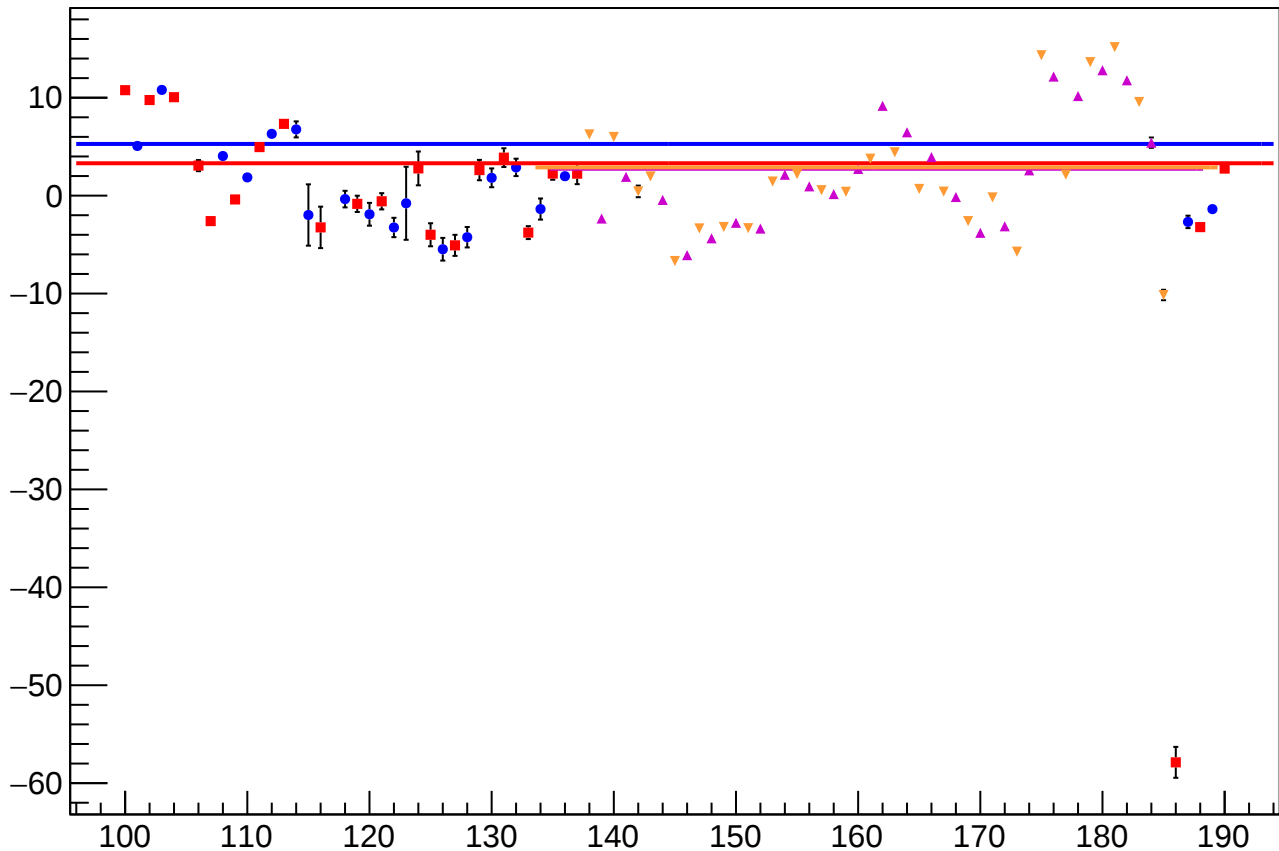
Right: -5.665 ± 0.039 χ^2/NDF : 27897.3/40

In: -1.886 ± 0.039 χ^2/NDF : 22200.3/41

Out: -2.154 ± 0.039 χ^2/NDF : 31586.2/46

All: -2.020 ± 0.028 χ^2/NDF : 53809.8/88

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.279 ± 0.086 χ^2/NDF : 1967.1/18

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 3.306 ± 0.077 χ^2/NDF : 6915.4/21

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

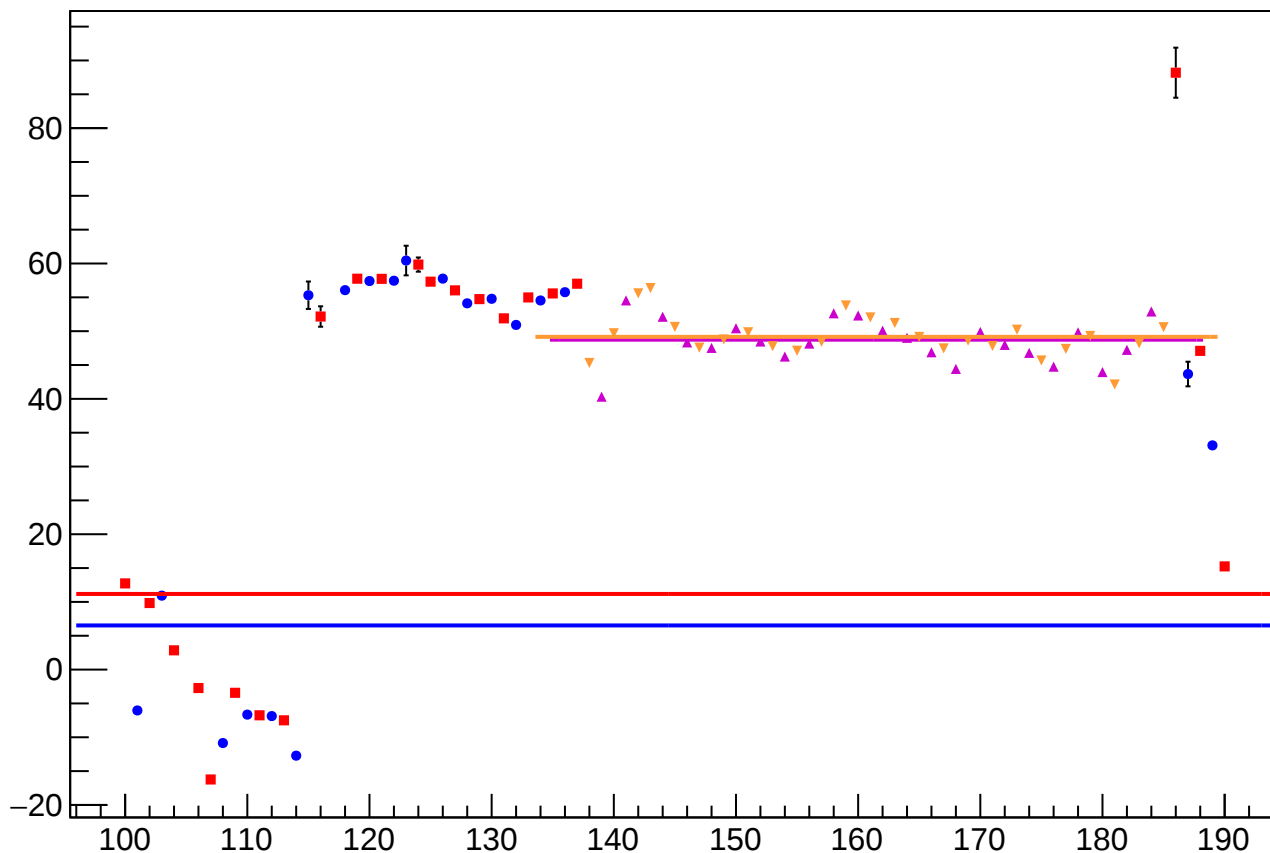
Right: 4.186 ± 0.058 χ^2/NDF : 9172.1/40

In: 3.776 ± 0.055 χ^2/NDF : 9661.7/41

Out: 3.075 ± 0.052 χ^2/NDF : 15824.9/46

All: 3.406 ± 0.038 χ^2/NDF : 25572.4/88

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.523 ± 0.065 χ^2/NDF : 122678.7/18

Left Out: 49.163 ± 0.062 χ^2/NDF : 2259.9/24

Right Out: 11.177 ± 0.068 χ^2/NDF : 130337.6/21

Left In: 48.744 ± 0.064 χ^2/NDF : 2097.7/22

Left: 48.960 ± 0.044 χ^2/NDF : 4380.0/47

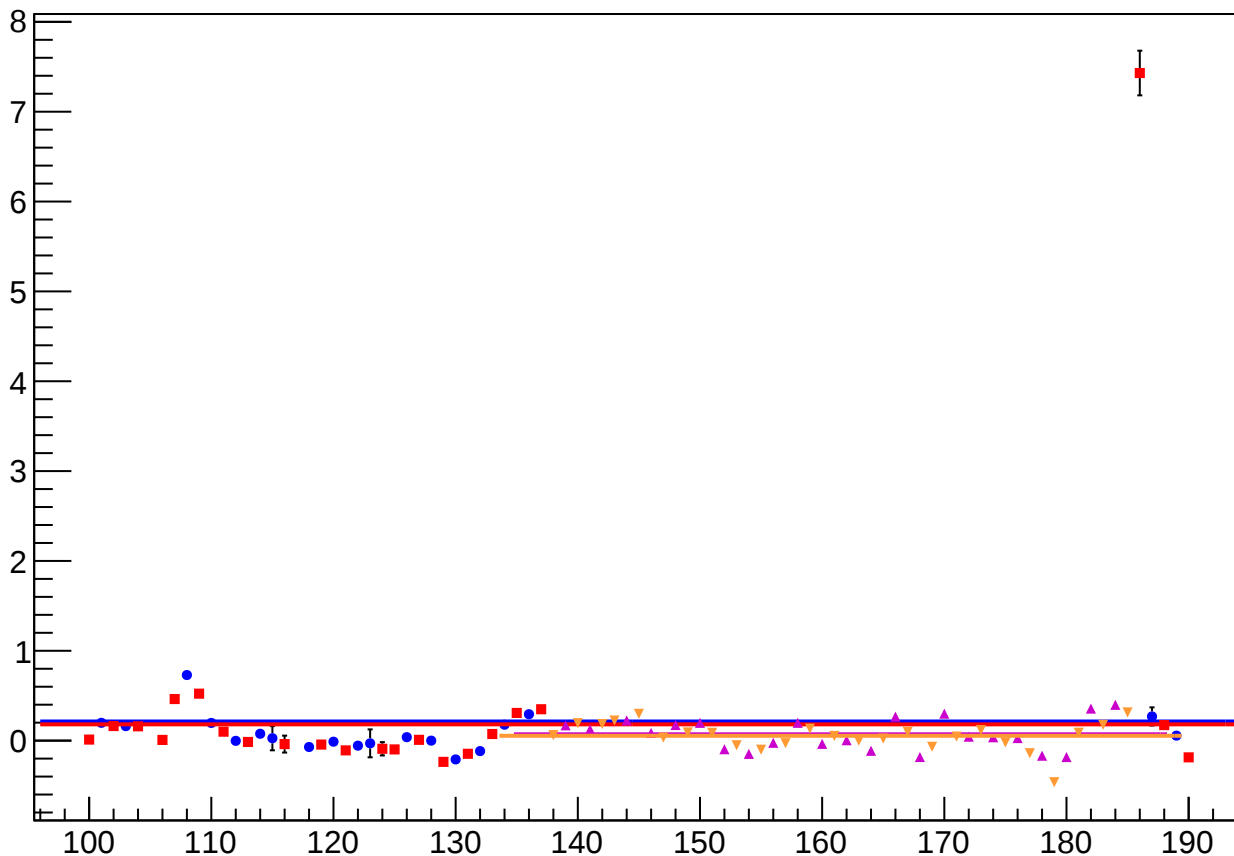
Right: 8.714 ± 0.047 χ^2/NDF : 255466.3/40

In: 27.877 ± 0.045 χ^2/NDF : 341446.5/41

Out: 32.107 ± 0.046 χ^2/NDF : 302563.9/46

All: 29.970 ± 0.032 χ^2/NDF : 648315.5/88

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.213+/-0.003 χ^2/NDF : 3972.5/18

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.181+/-0.003 χ^2/NDF : 3847.0/21

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

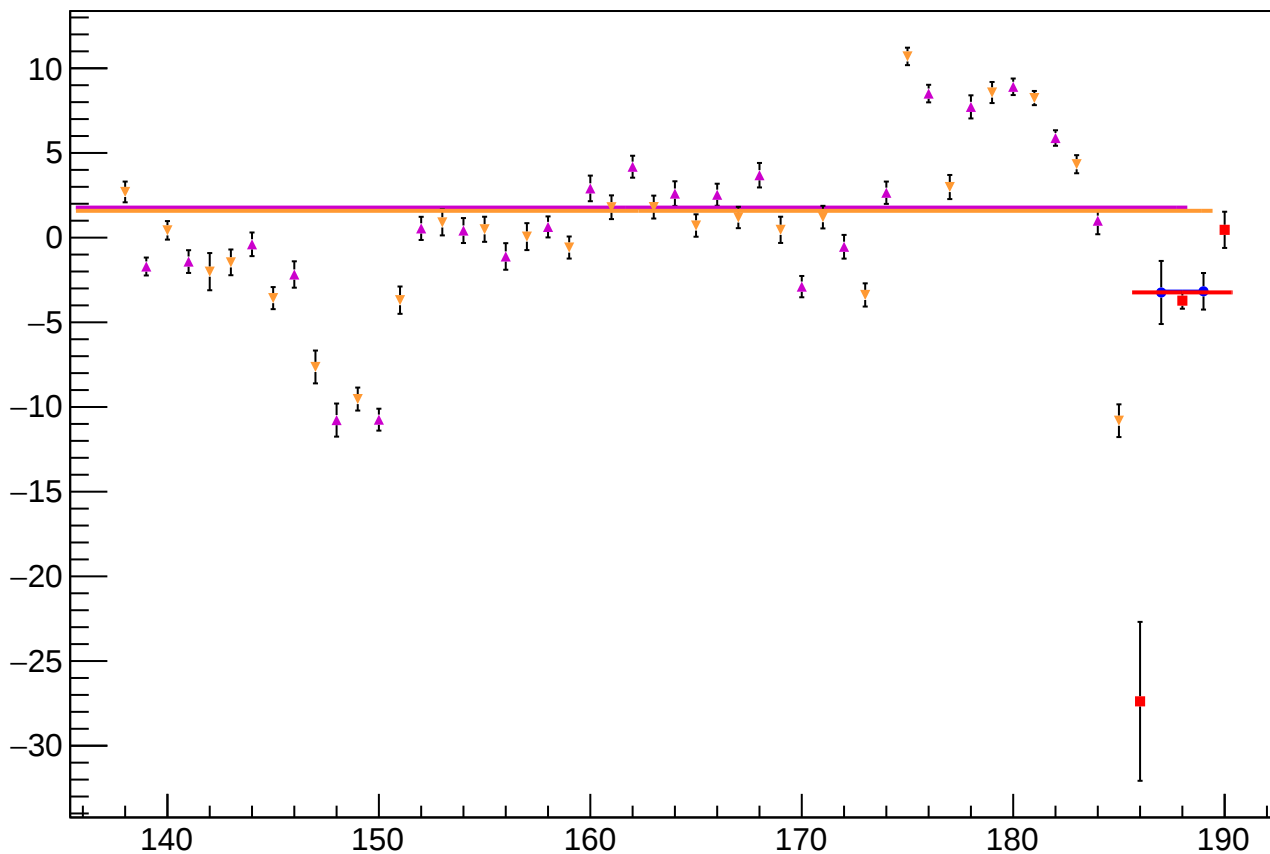
Right: 0.196+/-0.002 χ^2/NDF : 7889.4/40

In: 0.145+/-0.002 χ^2/NDF : 8497.4/41

Out: 0.122+/-0.002 χ^2/NDF : 7309.3/46

All: 0.133+/-0.001 χ^2/NDF : 15874.0/88

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.186 ± 0.934 χ^2/NDF : 0.0/1

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.234 ± 0.434 χ^2/NDF : 39.5/2

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

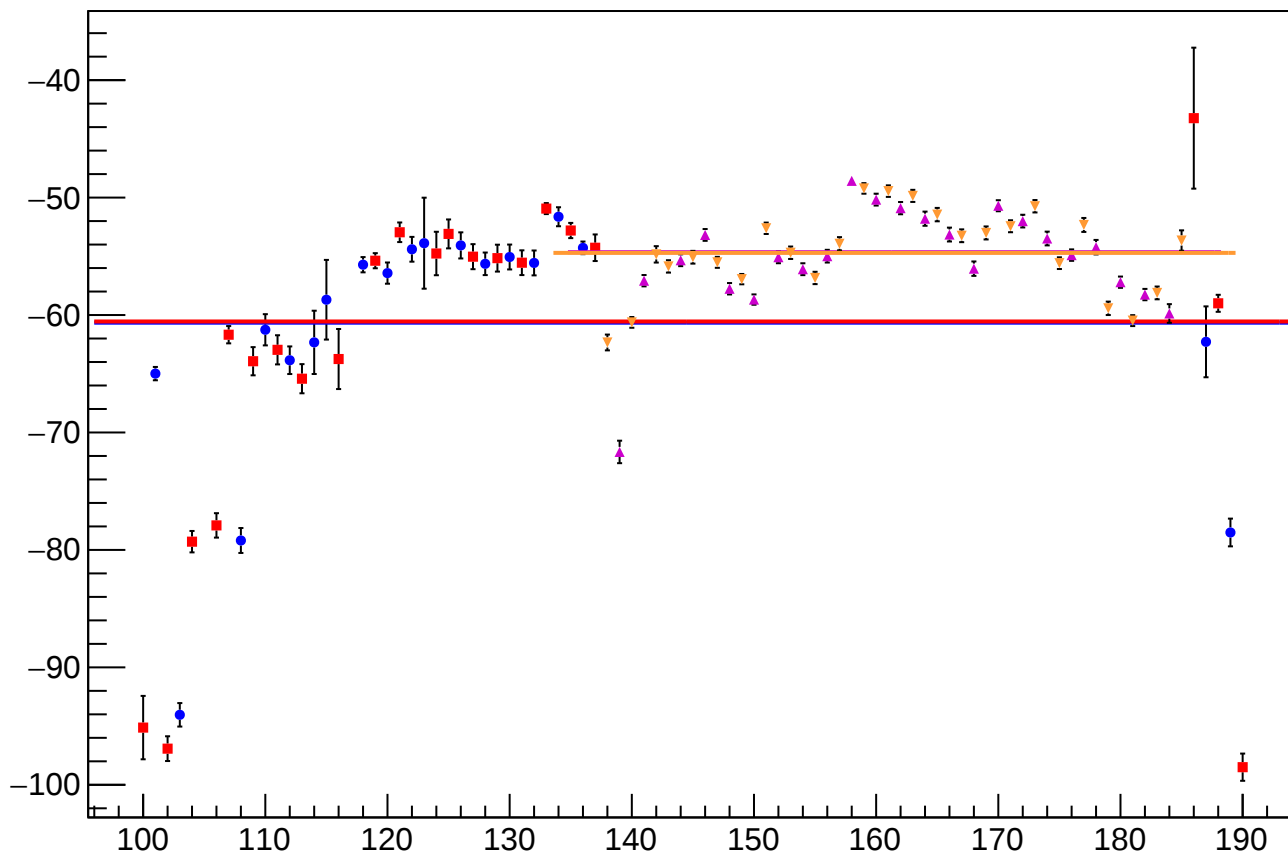
Right: -3.225 ± 0.393 χ^2/NDF : 39.5/4

In: 1.672 ± 0.134 χ^2/NDF : 1325.0/24

Out: 1.172 ± 0.127 χ^2/NDF : 1611.1/27

All: 1.409 ± 0.092 χ^2/NDF : 2943.4/52

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -60.652 ± 0.221 χ^2/NDF : 2211.1/18

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -60.549 ± 0.200 χ^2/NDF : 4033.0/21

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

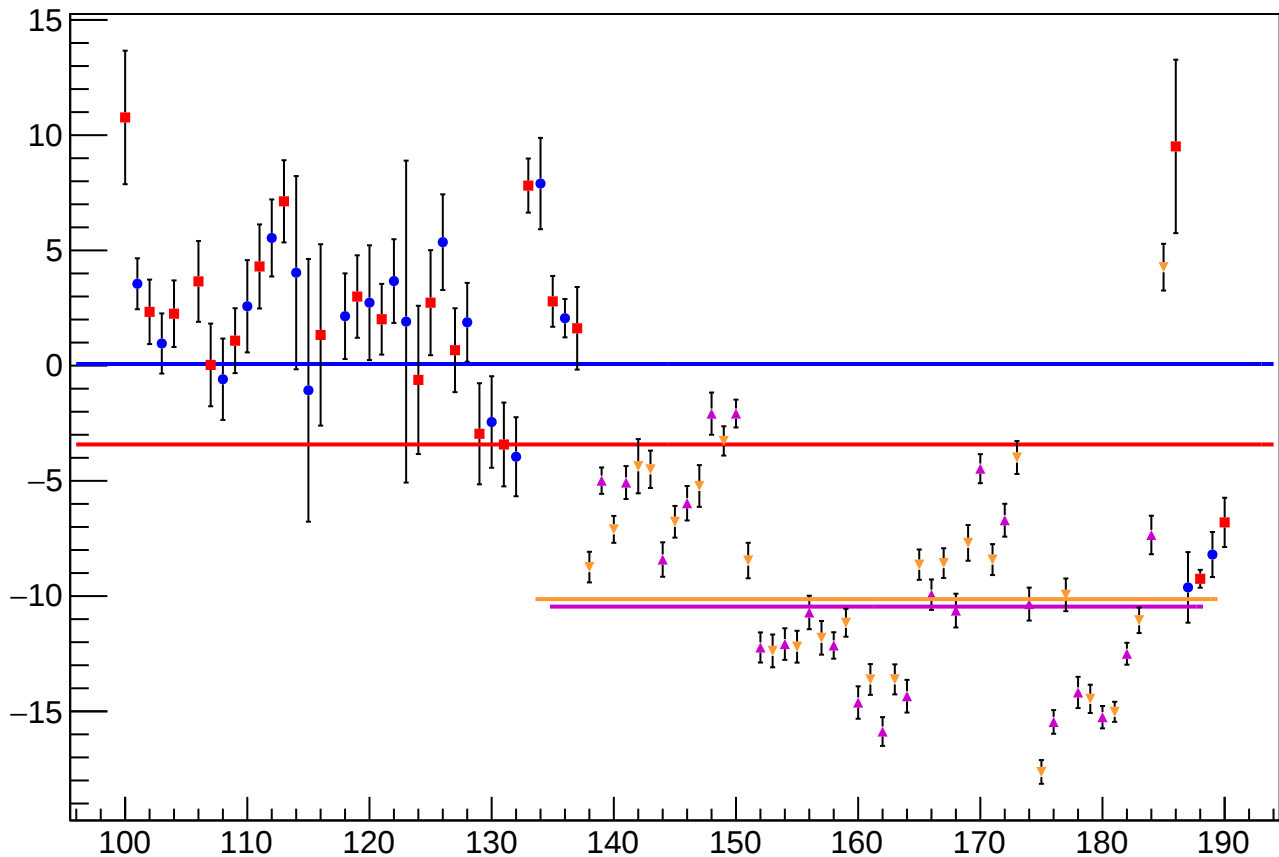
Right: -60.595 ± 0.148 χ^2/NDF : 6244.3/40

In: -55.841 ± 0.098 χ^2/NDF : 3881.5/41

Out: -55.978 ± 0.093 χ^2/NDF : 5823.7/46

All: -55.913 ± 0.068 χ^2/NDF : 9706.2/88

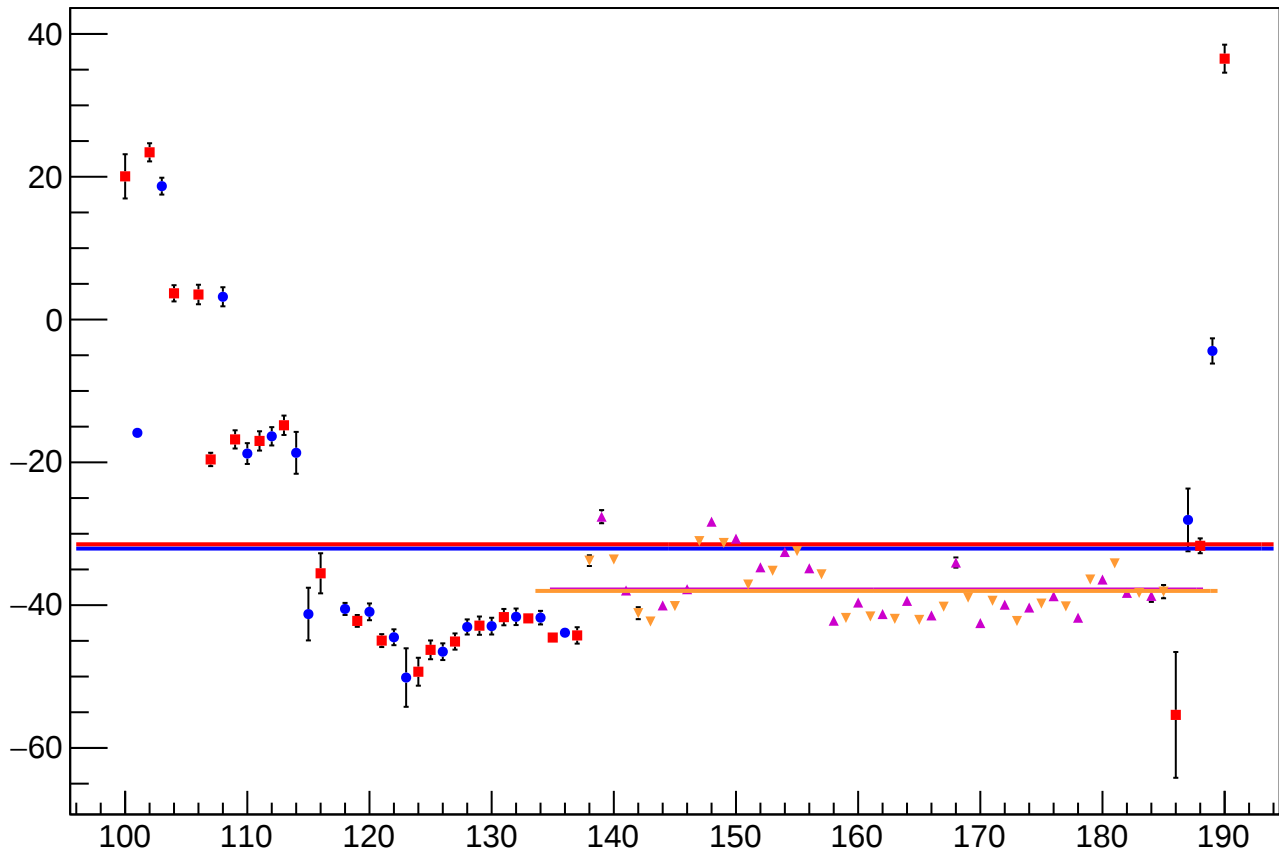
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.071 ± 0.364 χ^2/NDF : 177.8/18
 Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24
 Right Out: -3.421 ± 0.265 χ^2/NDF : 558.7/21
 Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47
 Right: -2.212 ± 0.214 χ^2/NDF : 796.7/40
 In: -9.190 ± 0.126 χ^2/NDF : 1915.5/41
 Out: -8.785 ± 0.119 χ^2/NDF : 2126.5/46
 All: -8.975 ± 0.087 χ^2/NDF : 4047.5/88

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.075 ± 0.253 $\chi^2/\text{NDF}: 4894.6/18$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -31.475 ± 0.236 $\chi^2/\text{NDF}: 7270.6/21$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

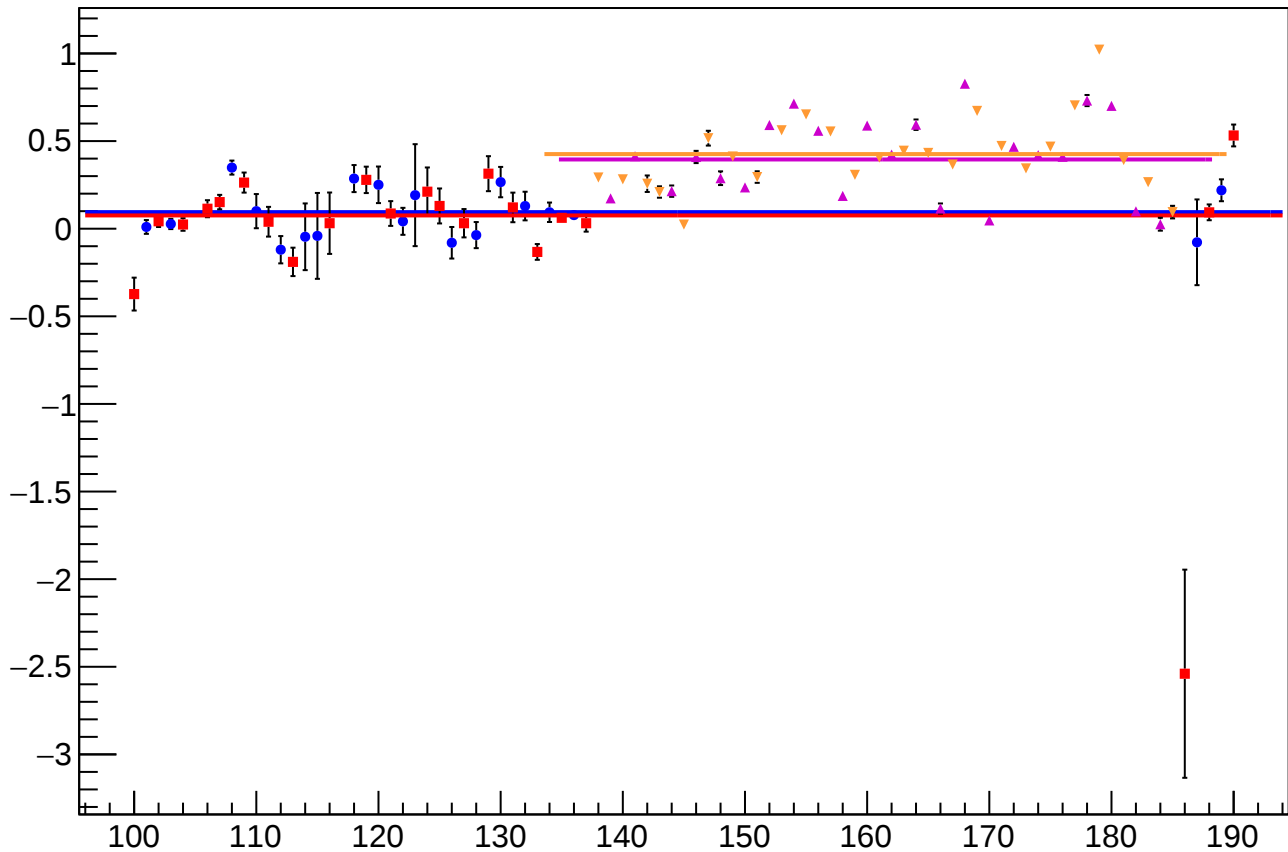
Right: -31.754 ± 0.173 $\chi^2/\text{NDF}: 12168.2/40$

In: -36.723 ± 0.110 $\chi^2/\text{NDF}: 6350.8/41$

Out: -36.687 ± 0.106 $\chi^2/\text{NDF}: 8827.6/46$

All: -36.704 ± 0.076 $\chi^2/\text{NDF}: 15178.5/88$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.095 $\pm$ 0.012 χ^2 /NDF: 83.7/18

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.076 $\pm$ 0.012 χ^2 /NDF: 162.3/21

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

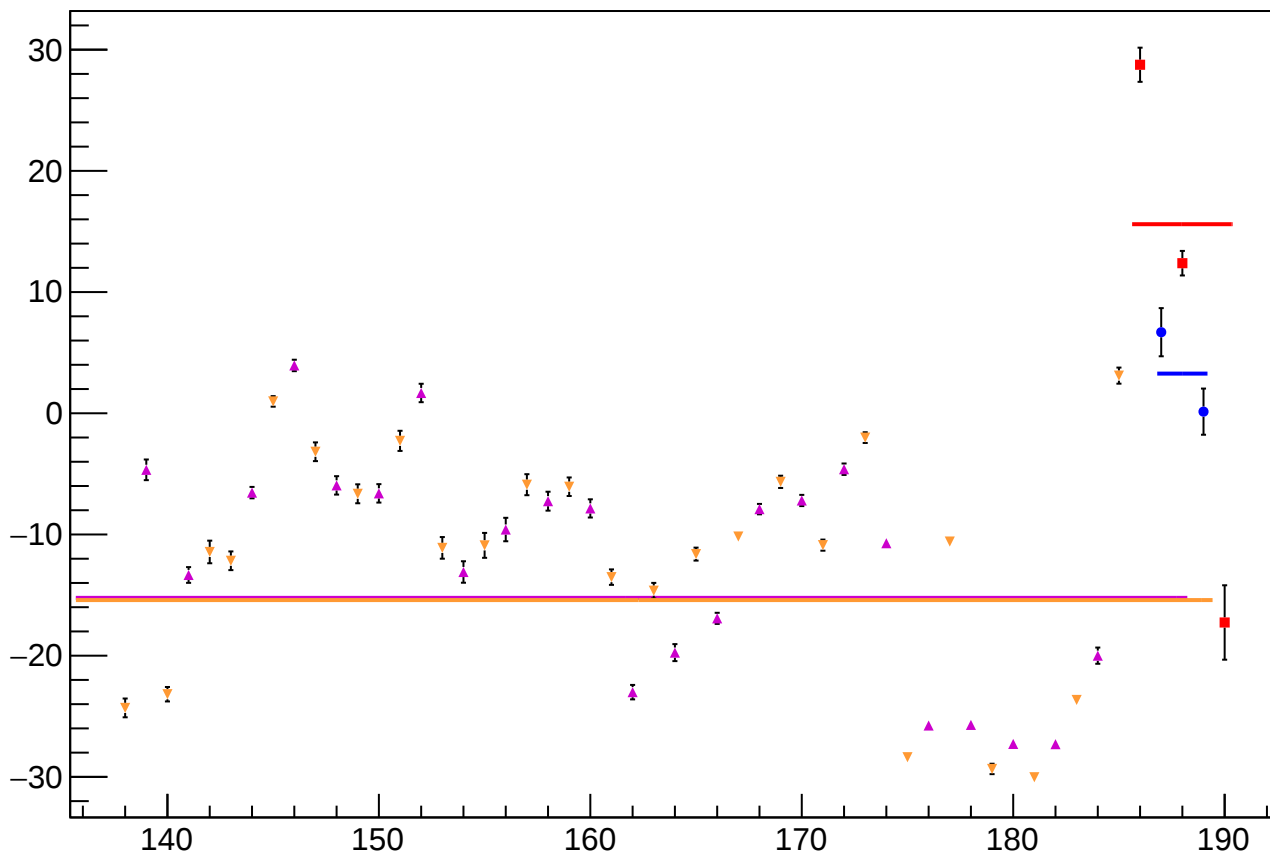
Right: 0.084 $\pm$ 0.008 χ^2 /NDF: 247.2/40

In: 0.347 $\pm$ 0.005 χ^2 /NDF:2369.8/41

Out: 0.364 $\pm$ 0.005 χ^2 /NDF:2221.0/46

All: 0.356 $\pm$ 0.003 χ^2 /NDF: 4596.2/88

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.273 ± 1.375 $\chi^2/\text{NDF}: 5.7/1$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: 15.600 ± 0.794 $\chi^2/\text{NDF}: 211.8/2$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

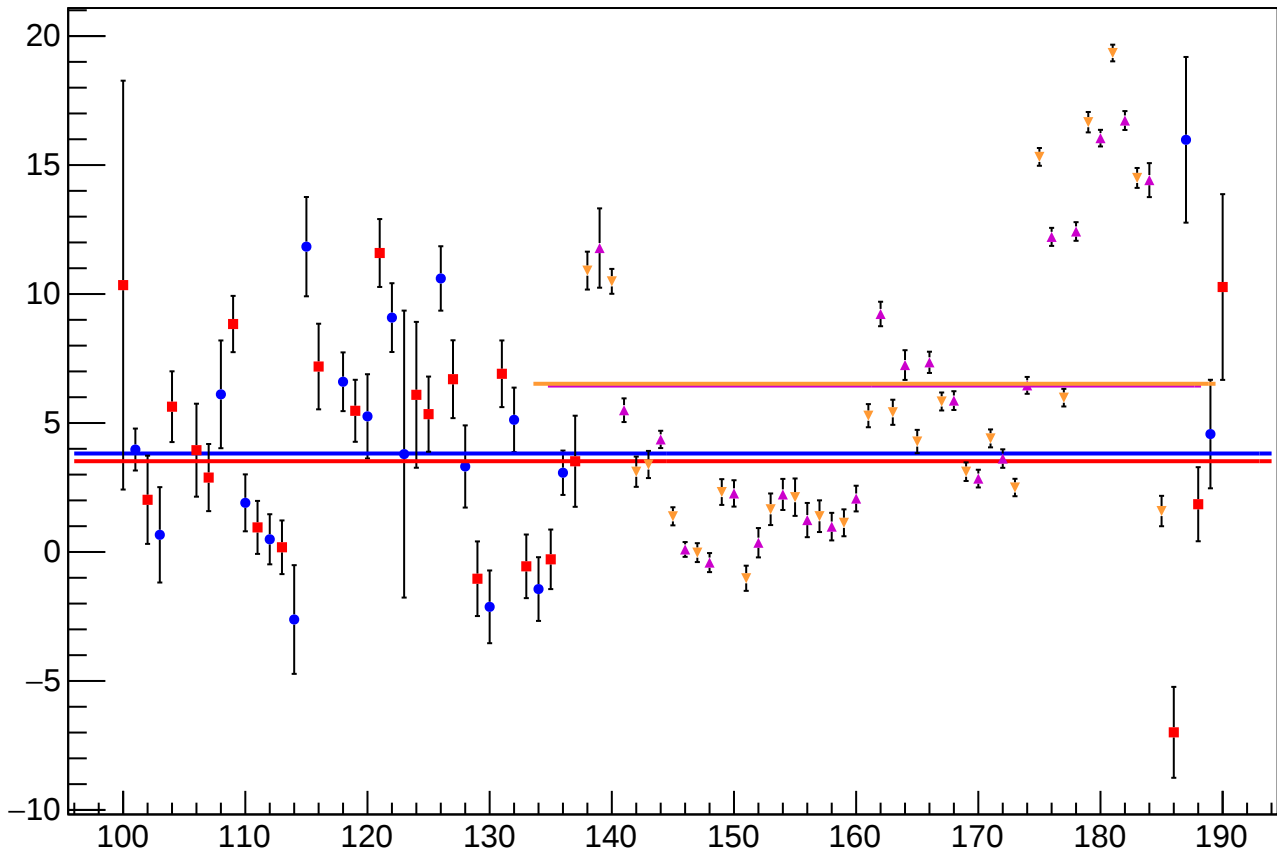
Right: 12.515 ± 0.688 $\chi^2/\text{NDF}: 277.7/4$

In: -15.119 ± 0.106 $\chi^2/\text{NDF}: 8843.0/24$

Out: -14.878 ± 0.104 $\chi^2/\text{NDF}: 12218.3/27$

All: -14.996 ± 0.074 $\chi^2/\text{NDF}: 21064.0/52$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.818 $\pm$ 0.306 χ^2 /NDF: 149.8/18

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.519 $\pm$ 0.303 χ^2 /NDF: 175.5/21

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

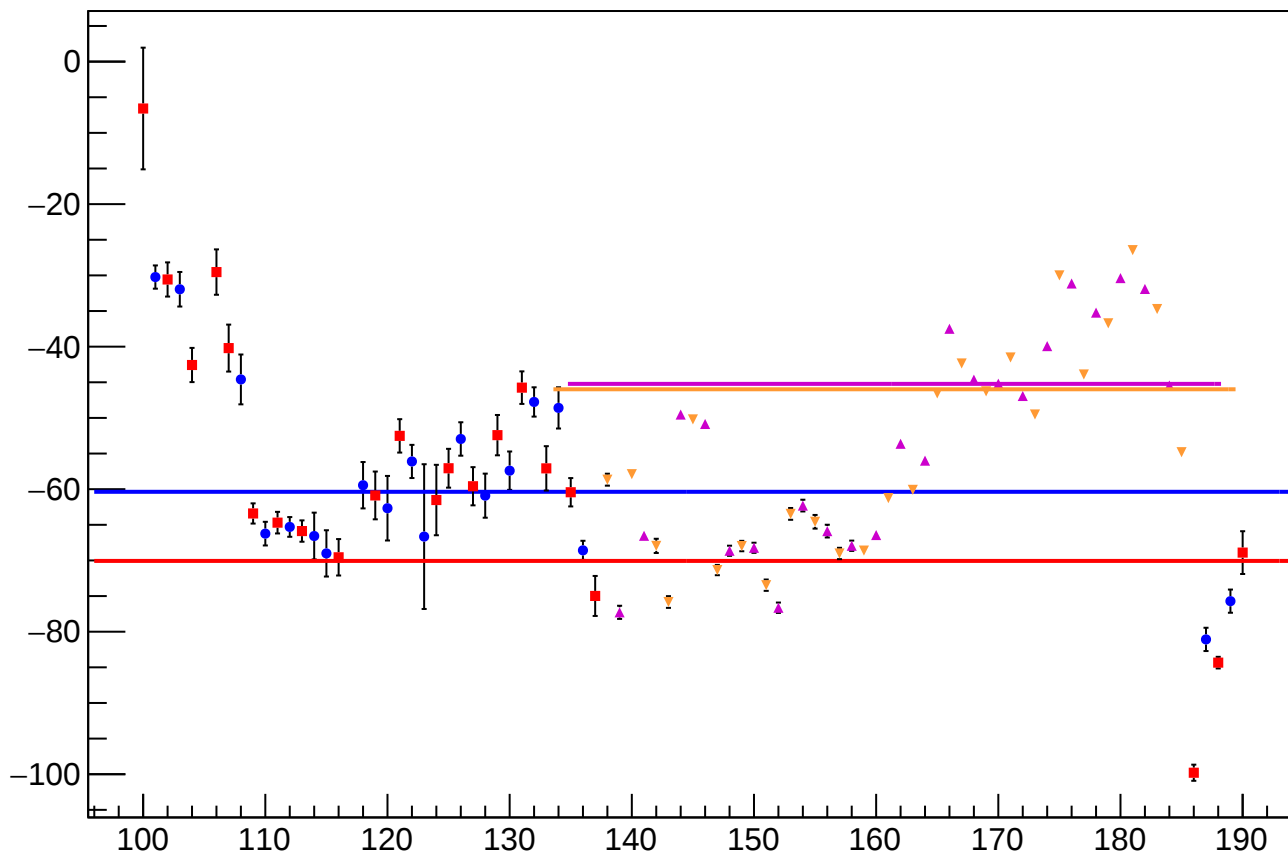
Right: 3.667 $\pm$ 0.216 χ^2 /NDF: 325.7/40

In: 6.259 $\pm$ 0.083 χ^2 /NDF:4166.4/41

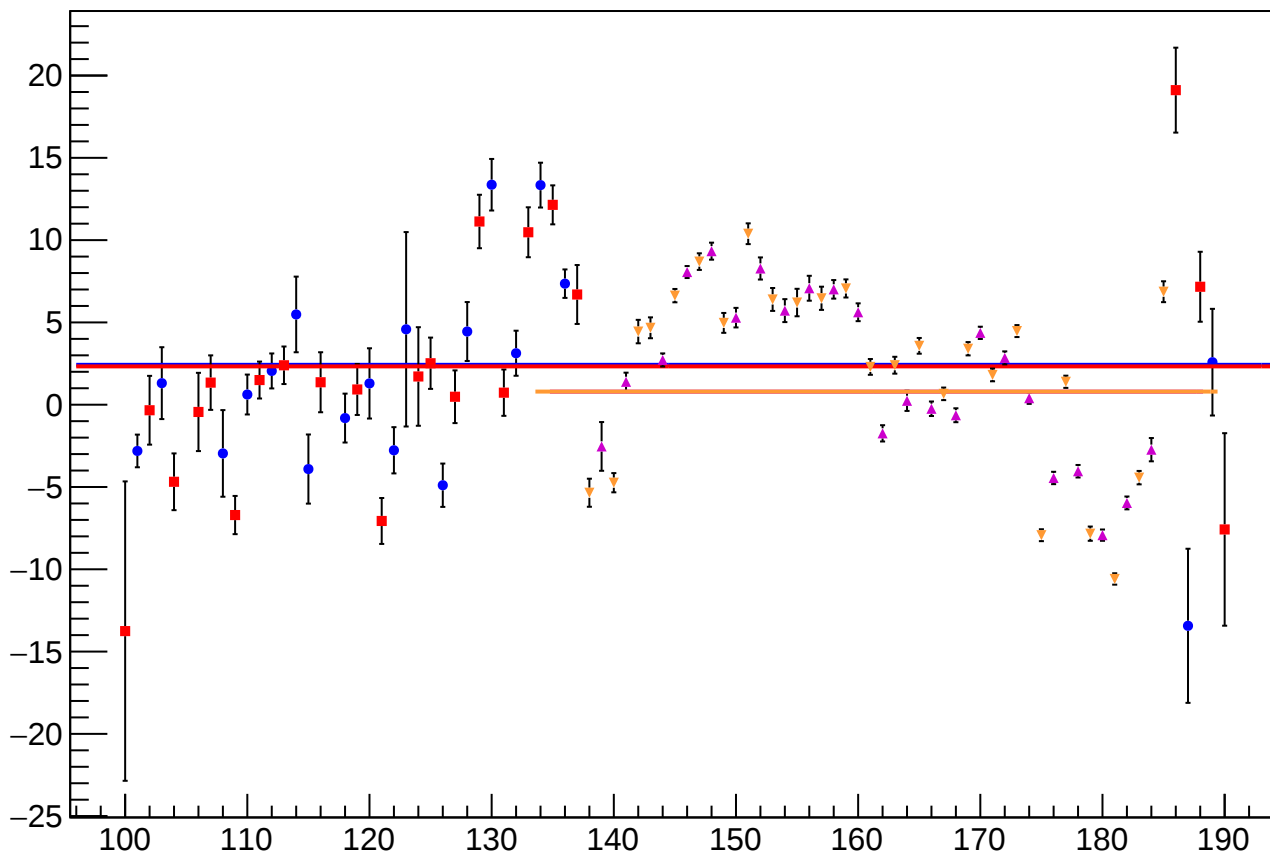
Out: 6.301 $\pm$ 0.082 χ^2 /NDF:5251.3/46

All: 6.280 $\pm$ 0.058 χ^2 /NDF: 9417.8/88

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.423 ± 0.345 χ^2/NDF : 253.8/18

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 2.328 ± 0.347 χ^2/NDF : 316.3/21

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

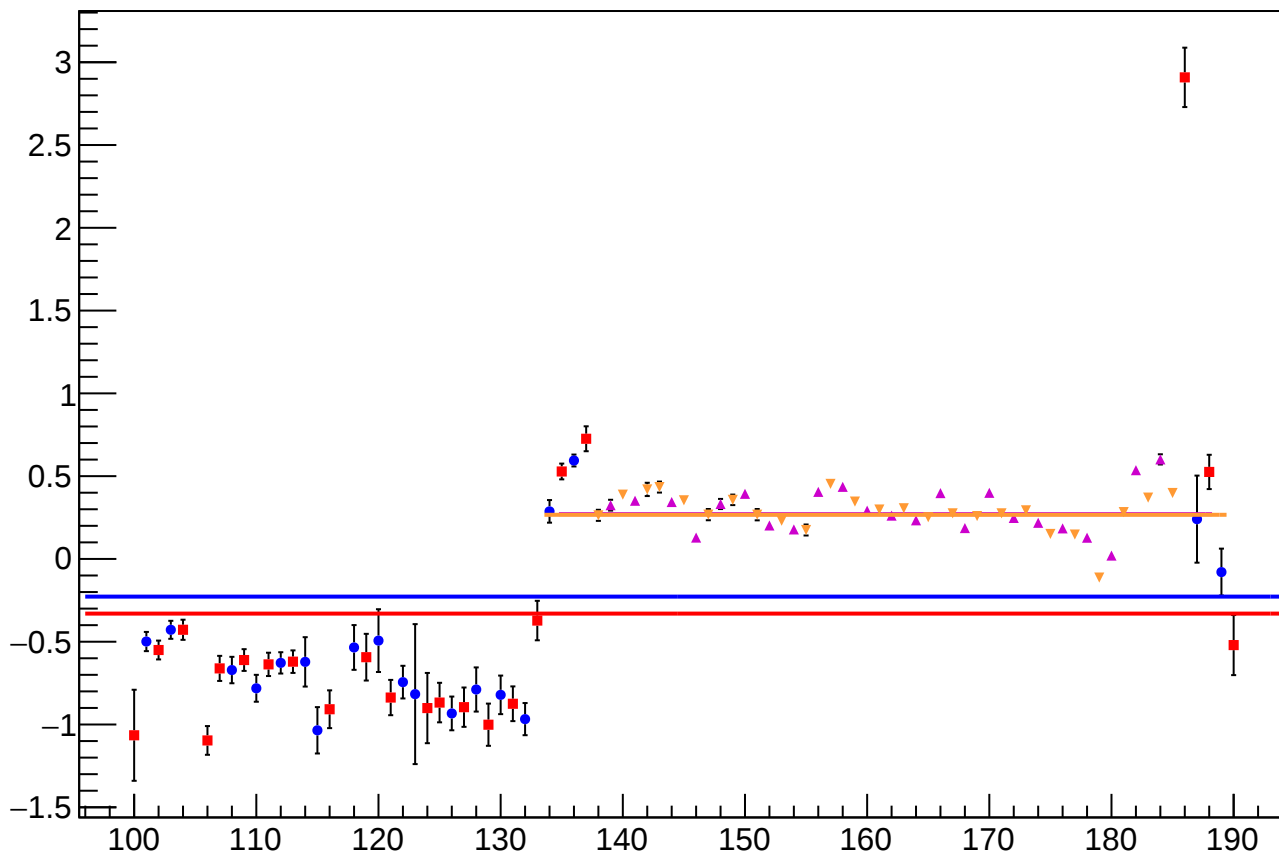
Right: 2.376 ± 0.245 χ^2/NDF : 570.1/40

In: 0.911 ± 0.093 χ^2/NDF : 2967.0/41

Out: 0.905 ± 0.092 χ^2/NDF : 4094.4/46

All: 0.908 ± 0.065 χ^2/NDF : 7061.4/88

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.228 ± 0.019 χ^2/NDF : 961.4/18

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.330 ± 0.018 χ^2/NDF : 1250.9/21

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

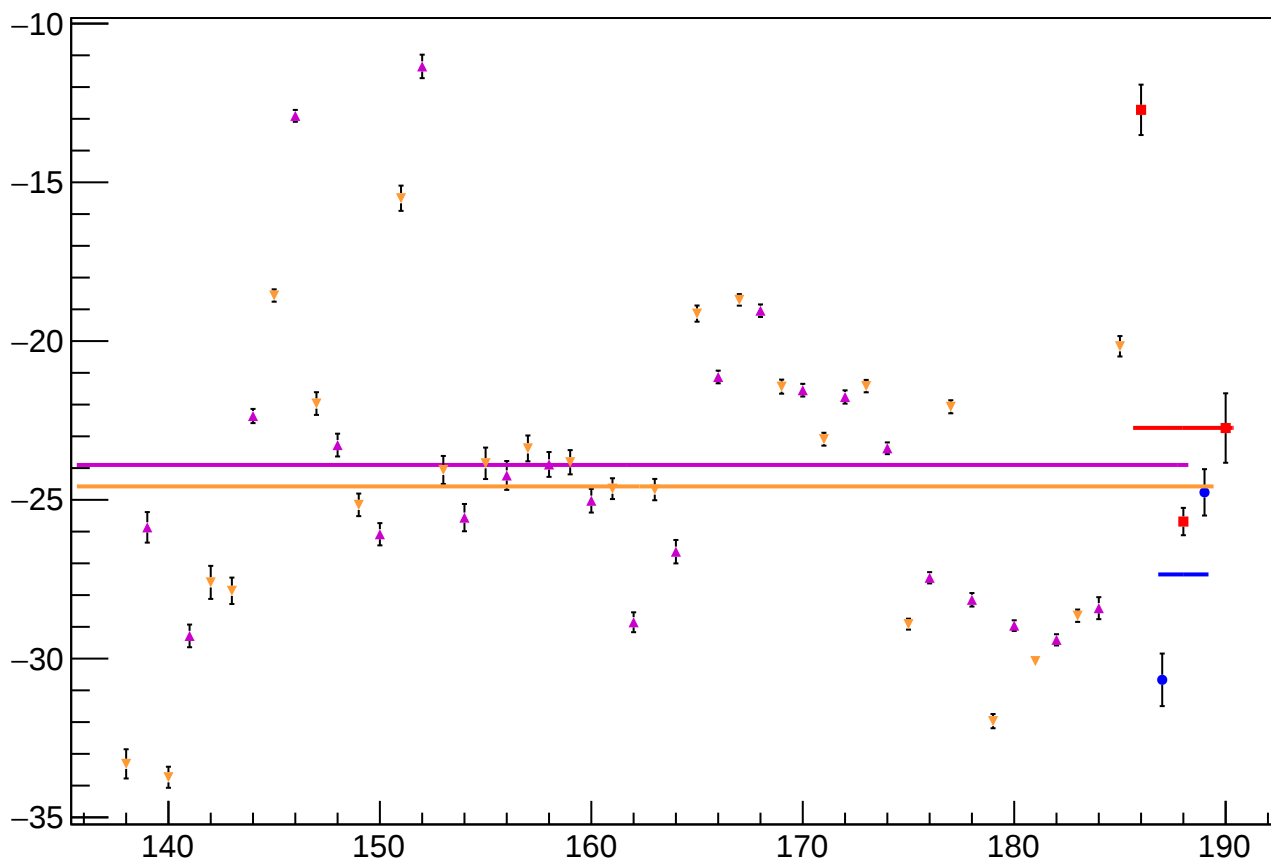
Right: -0.279 ± 0.013 χ^2/NDF : 2227.5/40

In: 0.244 ± 0.004 χ^2/NDF : 2602.0/41

Out: 0.235 ± 0.004 χ^2/NDF : 2937.0/46

All: 0.240 ± 0.003 χ^2/NDF : 5541.1/88

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.349 ± 0.548 χ^2/NDF : 28.6/1

Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24

Right Out: -22.734 ± 0.358 χ^2/NDF : 206.2/2

Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

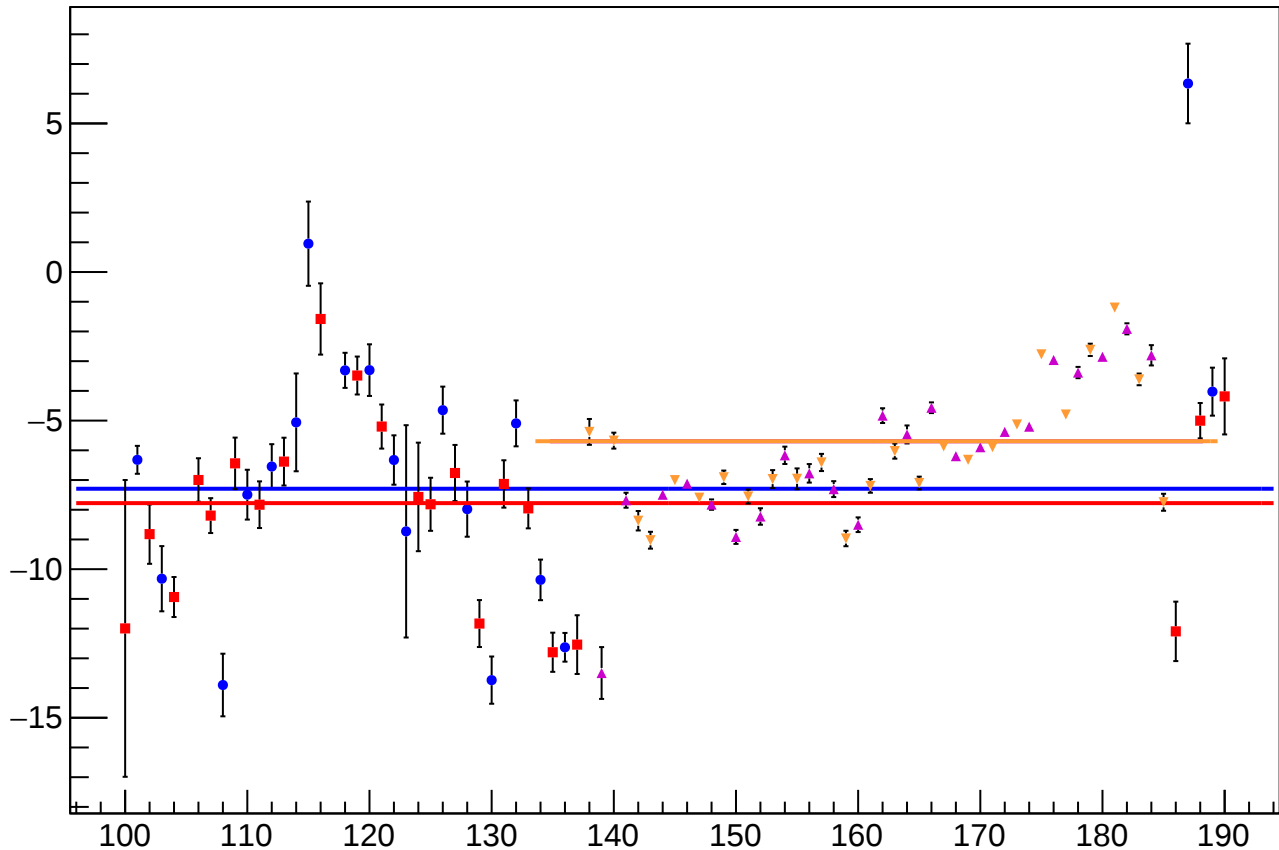
Right: -24.115 ± 0.300 χ^2/NDF : 284.6/4

In: -23.931 ± 0.051 χ^2/NDF : 9222.8/24

Out: -24.541 ± 0.050 χ^2/NDF : 8822.6/27

All: -24.238 ± 0.036 χ^2/NDF : 18117.9/52

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.293+/-0.181 χ^2/NDF : 503.6/18

Left Out: -5.694+/-0.041 χ^2/NDF : 2258.3/24

Right Out: -7.777+/-0.173 χ^2/NDF : 272.5/21

Left In: -5.696+/-0.041 χ^2/NDF : 2309.8/22

Left: -5.695+/-0.029 χ^2/NDF : 4568.1/47

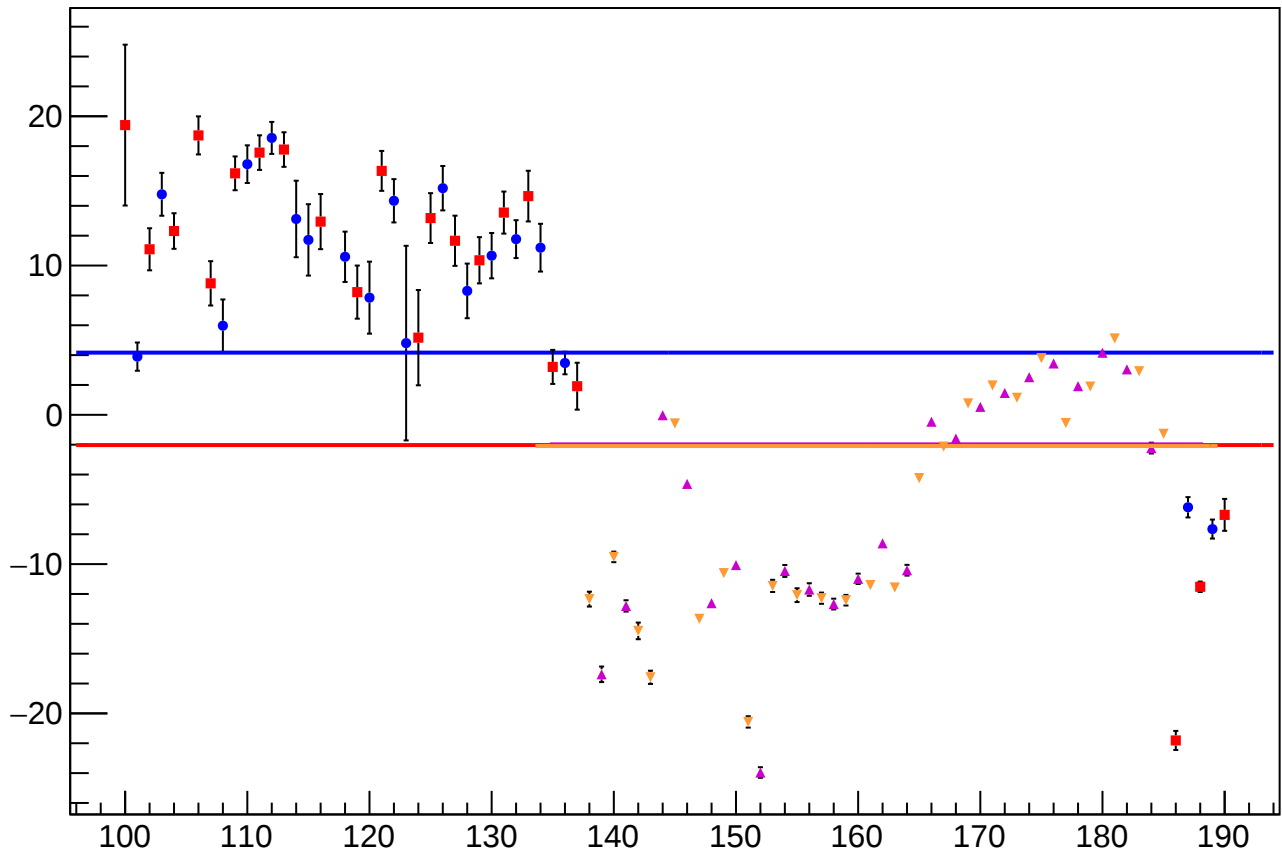
Right: -7.545+/-0.125 χ^2/NDF : 779.9/40

In: -5.774+/-0.040 χ^2/NDF : 2887.6/41

Out: -5.805+/-0.040 χ^2/NDF : 2667.6/46

All: -5.789+/-0.028 χ^2/NDF : 5555.5/88

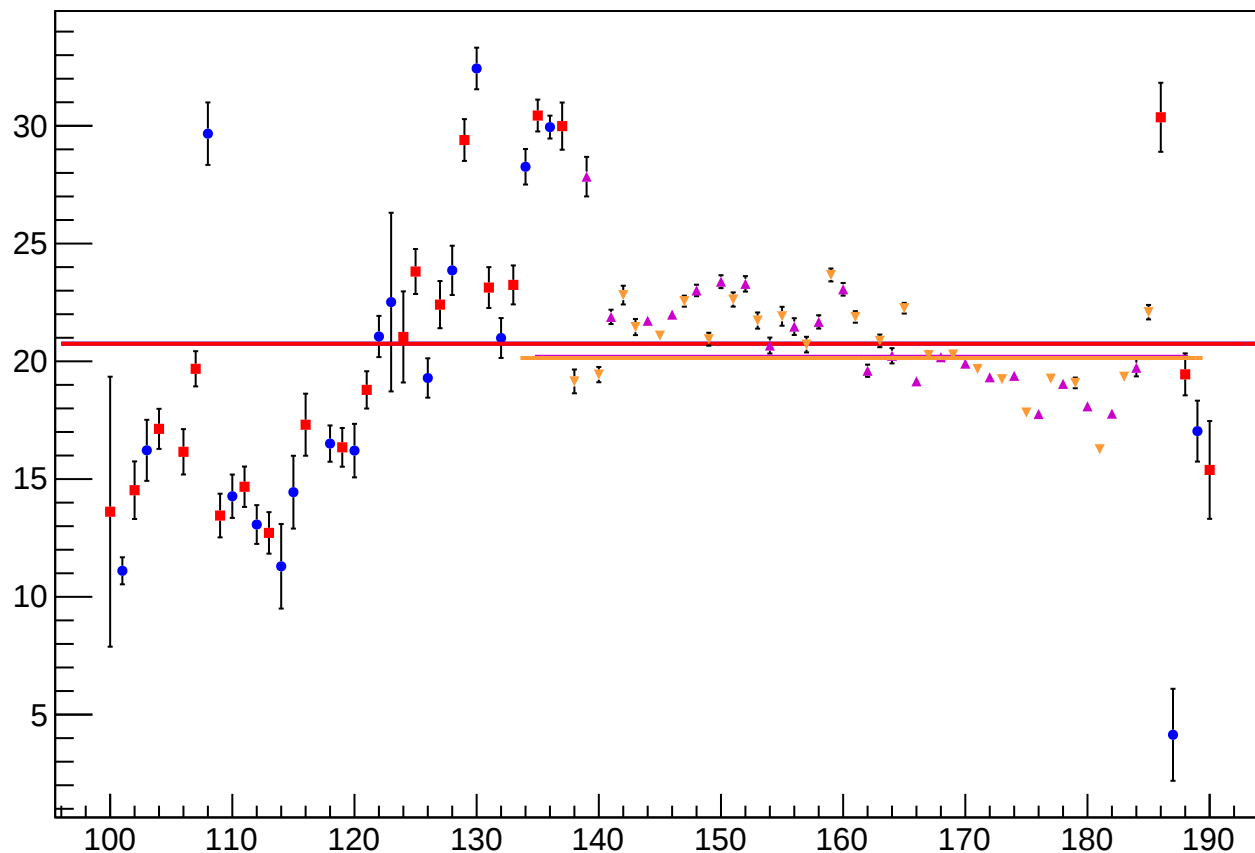
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.167 ± 0.274 $\chi^2/\text{NDF}: 1135.3/18$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -2.026 ± 0.220 $\chi^2/\text{NDF}: 3889.9/21$
 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: 0.403 ± 0.171 $\chi^2/\text{NDF}: 5336.6/40$
 In: -1.772 ± 0.050 $\chi^2/\text{NDF}: 17005.3/41$
 Out: -2.089 ± 0.050 $\chi^2/\text{NDF}: 20195.3/46$
 All: -1.931 ± 0.036 $\chi^2/\text{NDF}: 37220.5/88$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.751 $\pm$ 0.207 χ^2 /NDF: 1291.8/18

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.746 $\pm$ 0.204 χ^2 /NDF: 773.6/21

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

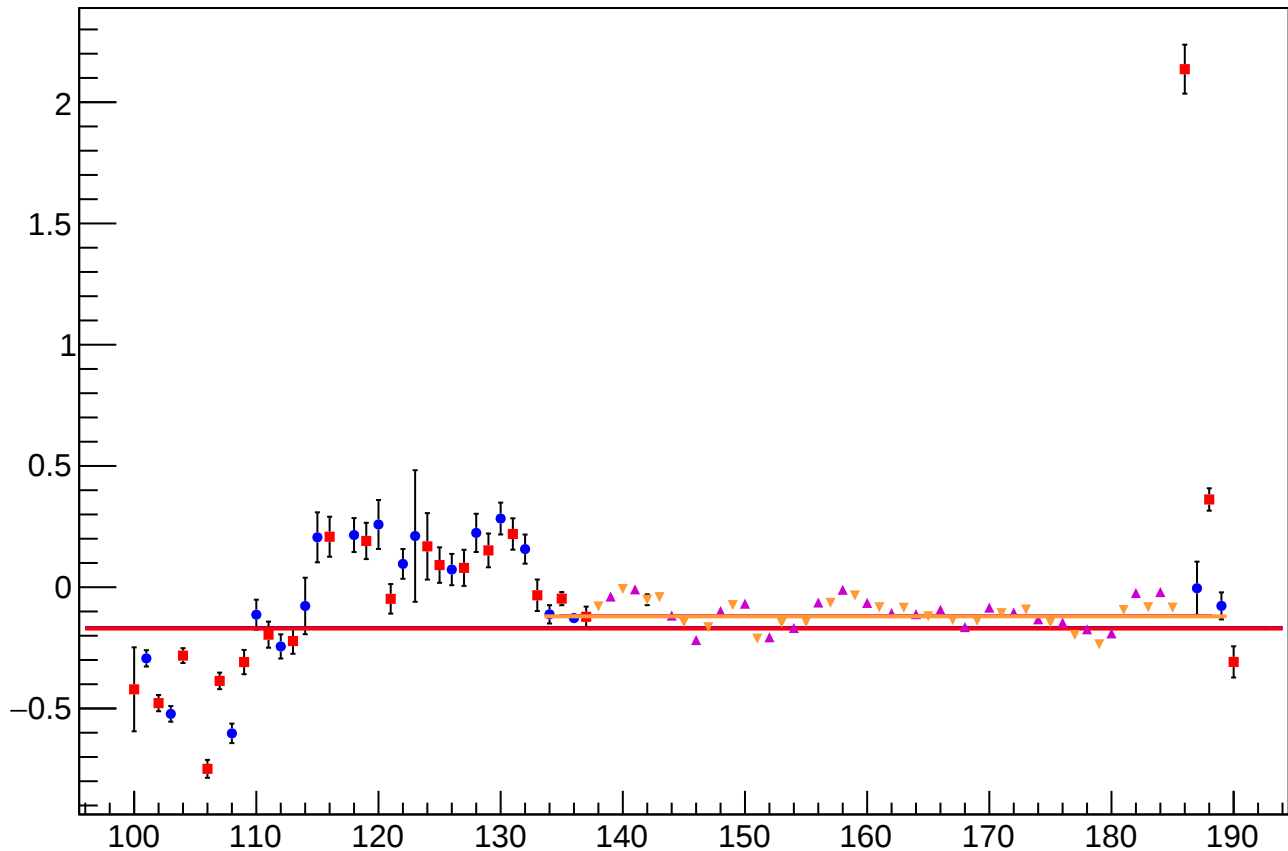
Right: 20.749 $\pm$ 0.145 χ^2 /NDF: 2065.5/40

In: 20.220 $\pm$ 0.045 χ^2 /NDF:2746.1/41

Out: 20.170 $\pm$ 0.045 χ^2 /NDF:2201.1/46

All: 20.195 $\pm$ 0.032 χ^2 /NDF: 4947.8/88

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.168 ± 0.011 χ^2/NDF : 463.4/18

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.170 ± 0.010 χ^2/NDF : 1216.1/21

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

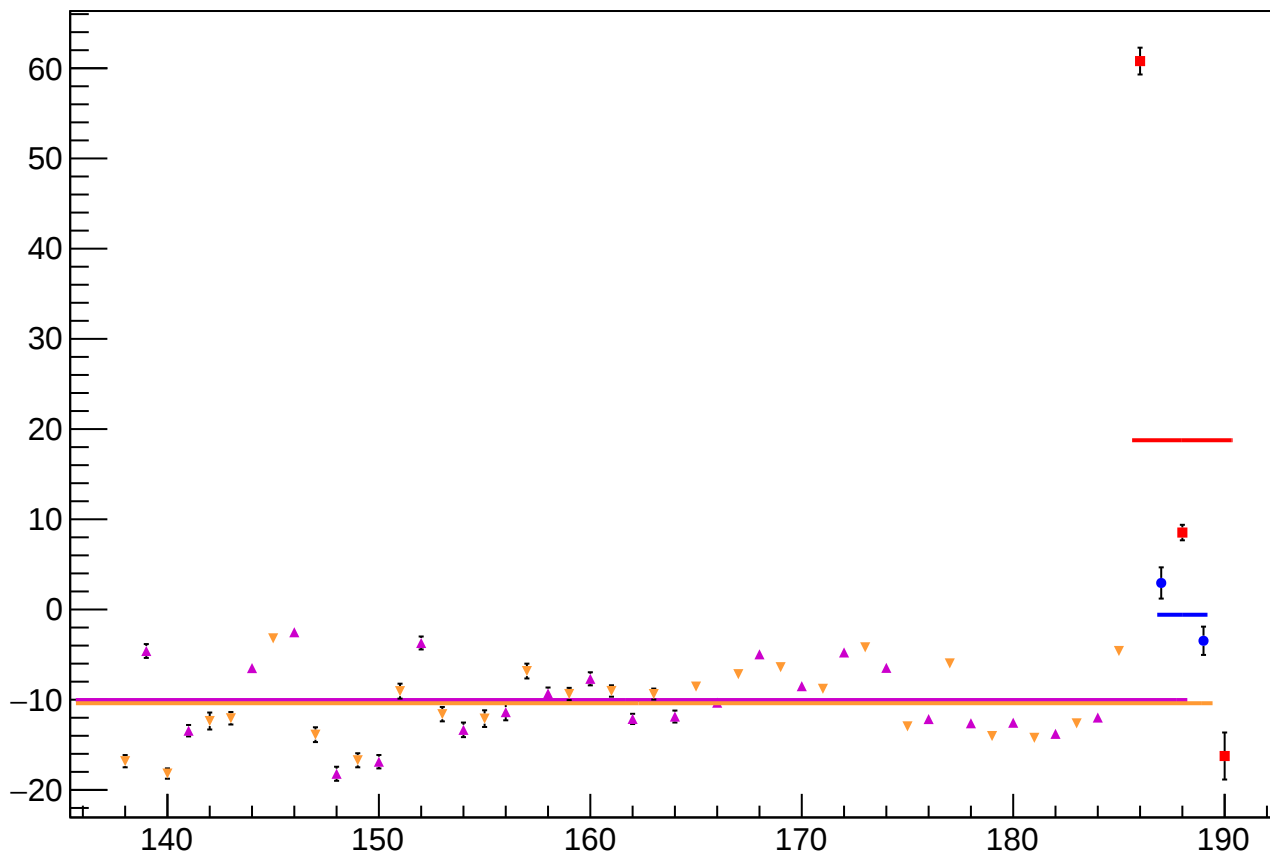
Right: -0.169 ± 0.008 χ^2/NDF : 1679.5/40

In: -0.120 ± 0.002 χ^2/NDF : 1205.1/41

Out: -0.122 ± 0.002 χ^2/NDF : 1768.6/46

All: -0.121 ± 0.001 χ^2/NDF : 2974.0/88

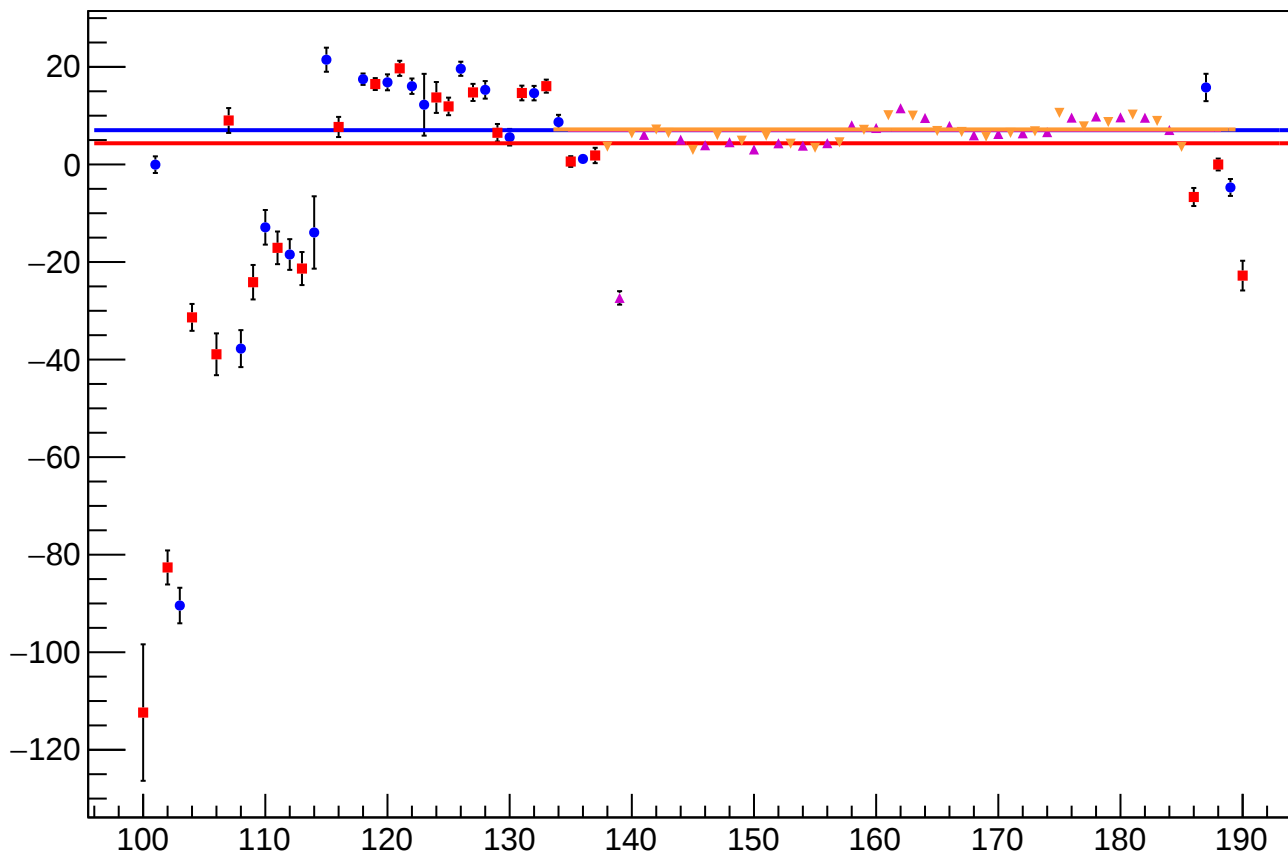
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.582 ± 1.163 $\chi^2/\text{NDF}: 7.5/1$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 18.762 ± 0.715 $\chi^2/\text{NDF}: 1121.7/2$
 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: 13.450 ± 0.609 $\chi^2/\text{NDF}: 1330.0/4$
 In: -9.980 ± 0.089 $\chi^2/\text{NDF}: 1831.9/24$
 Out: -9.958 ± 0.087 $\chi^2/\text{NDF}: 4869.9/27$
 All: -9.969 ± 0.062 $\chi^2/\text{NDF}: 6701.9/52$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.027 ± 0.392 $\chi^2/\text{NDF}: 1397.4/18$

Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$

Right Out: 4.343 ± 0.396 $\chi^2/\text{NDF}: 1655.0/21$

Left In: 7.053 ± 0.074 $\chi^2/\text{NDF}: 1535.8/22$

Left: 7.119 ± 0.052 $\chi^2/\text{NDF}: 2454.8/47$

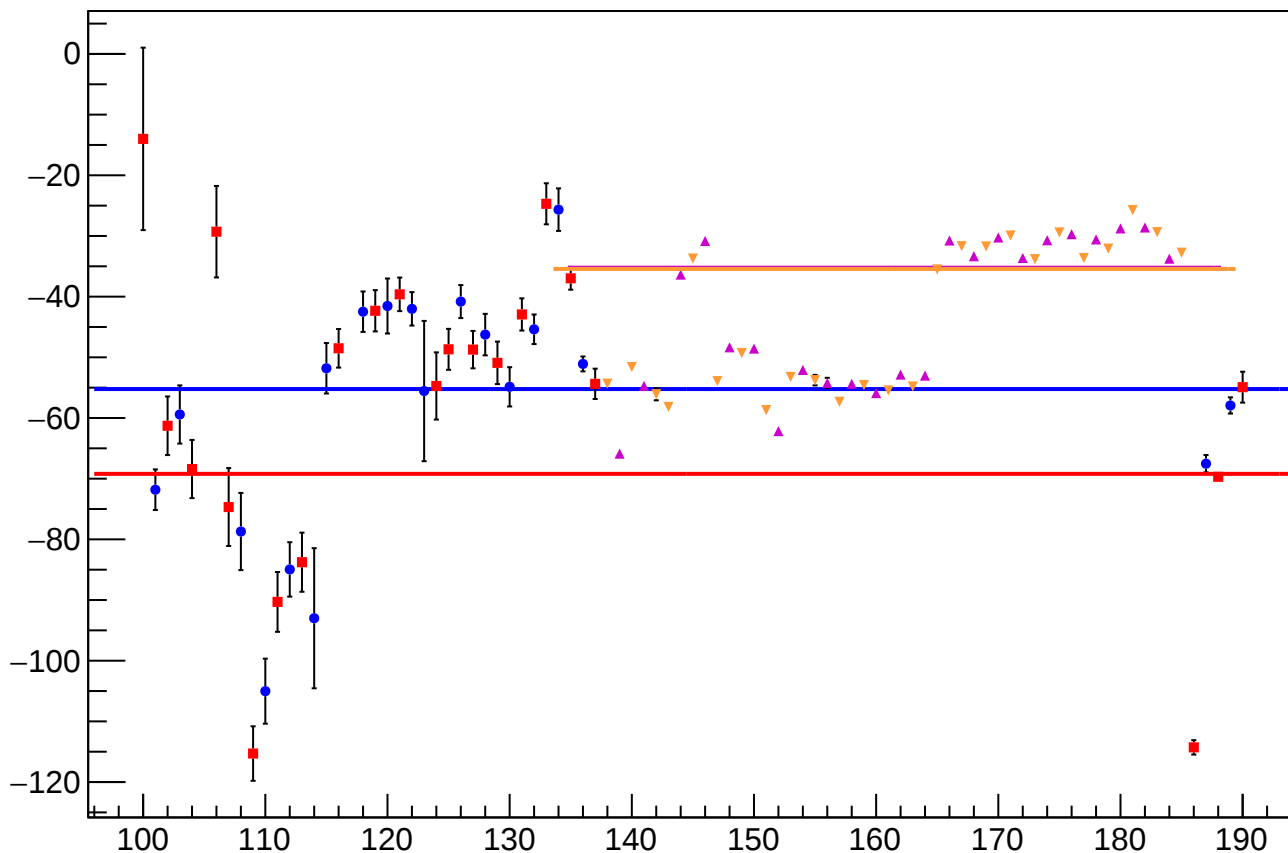
Right: 5.699 ± 0.279 $\chi^2/\text{NDF}: 3075.6/40$

In: 7.052 ± 0.073 $\chi^2/\text{NDF}: 2933.3/41$

Out: 7.090 ± 0.072 $\chi^2/\text{NDF}: 2622.0/46$

All: 7.071 ± 0.051 $\chi^2/\text{NDF}: 5555.5/88$

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -55.230 ± 0.590 χ^2/NDF : 439.9/18

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -69.206 ± 0.471 χ^2/NDF : 2585.6/21

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

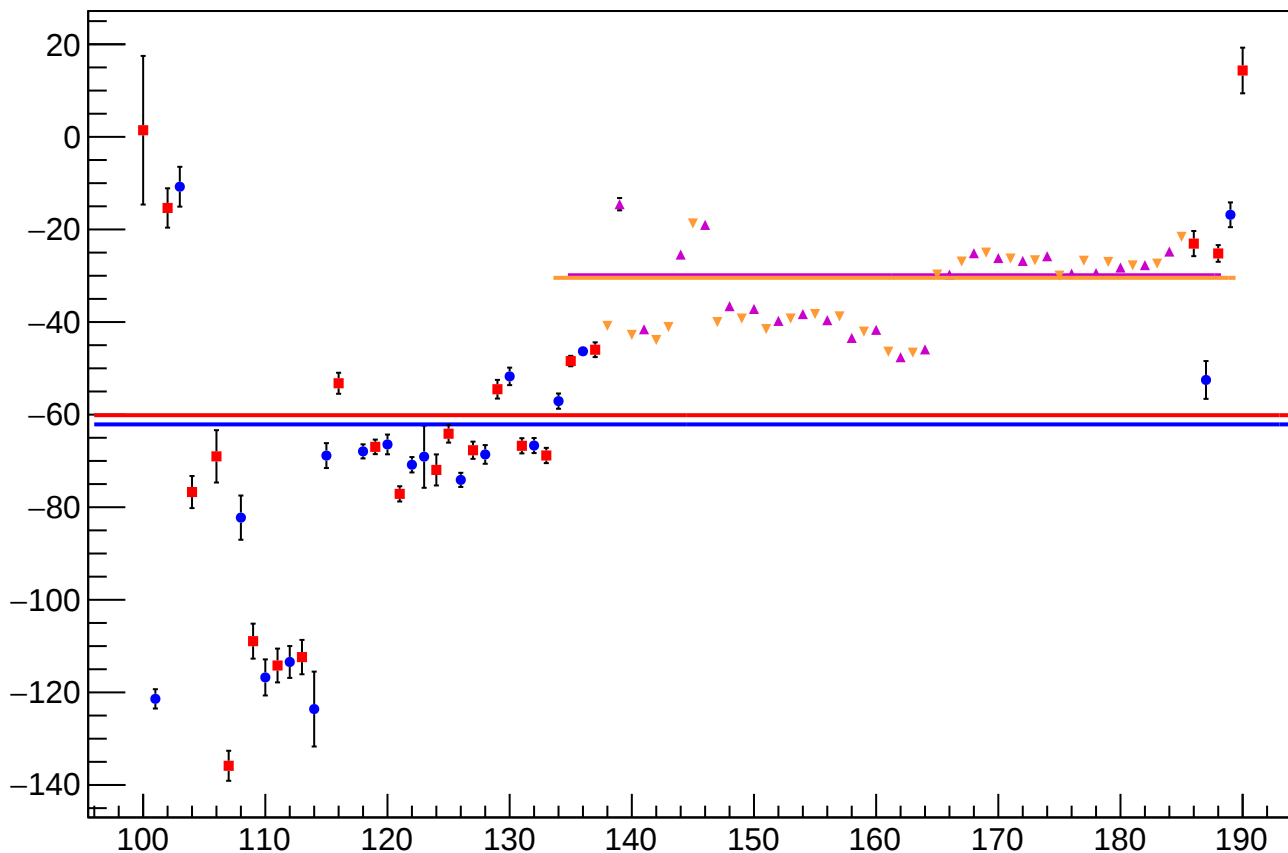
Right: -63.771 ± 0.368 χ^2/NDF : 3368.2/40

In: -35.684 ± 0.089 χ^2/NDF : 13165.1/41

Out: -36.599 ± 0.087 χ^2/NDF : 20335.3/46

All: -36.150 ± 0.062 χ^2/NDF : 33554.1/88

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -62.108 ± 0.440 $\chi^2/\text{NDF}: 2308.0/18$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -60.122 ± 0.459 $\chi^2/\text{NDF}: 2477.5/21$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

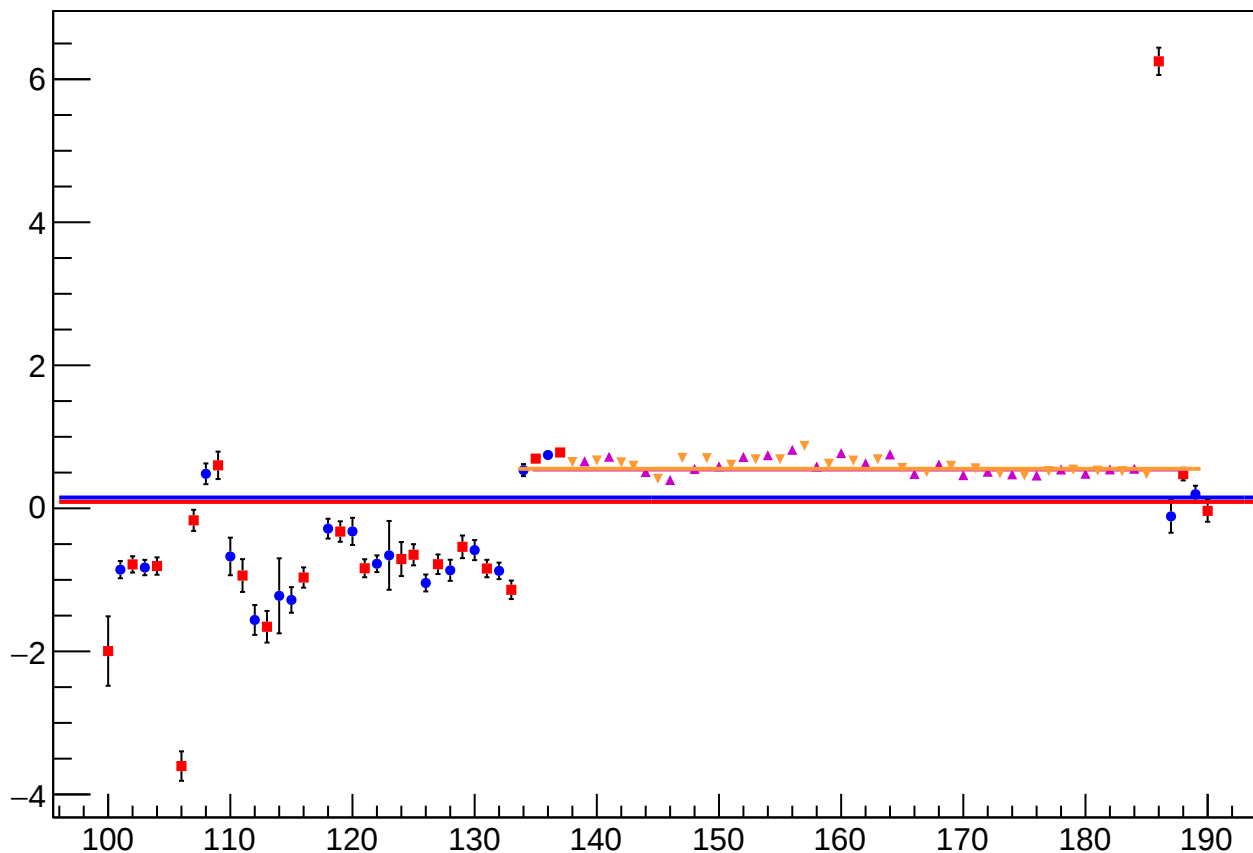
Right: -61.155 ± 0.318 $\chi^2/\text{NDF}: 4795.2/40$

In: -30.986 ± 0.081 $\chi^2/\text{NDF}: 14591.5/41$

Out: -31.357 ± 0.080 $\chi^2/\text{NDF}: 14705.0/46$

All: -31.174 ± 0.057 $\chi^2/\text{NDF}: 29307.1/88$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.151 $\pm$ 0.023 χ^2 /NDF: 988.8/18

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.090 $\pm$ 0.025 χ^2 /NDF: 2250.3/21

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

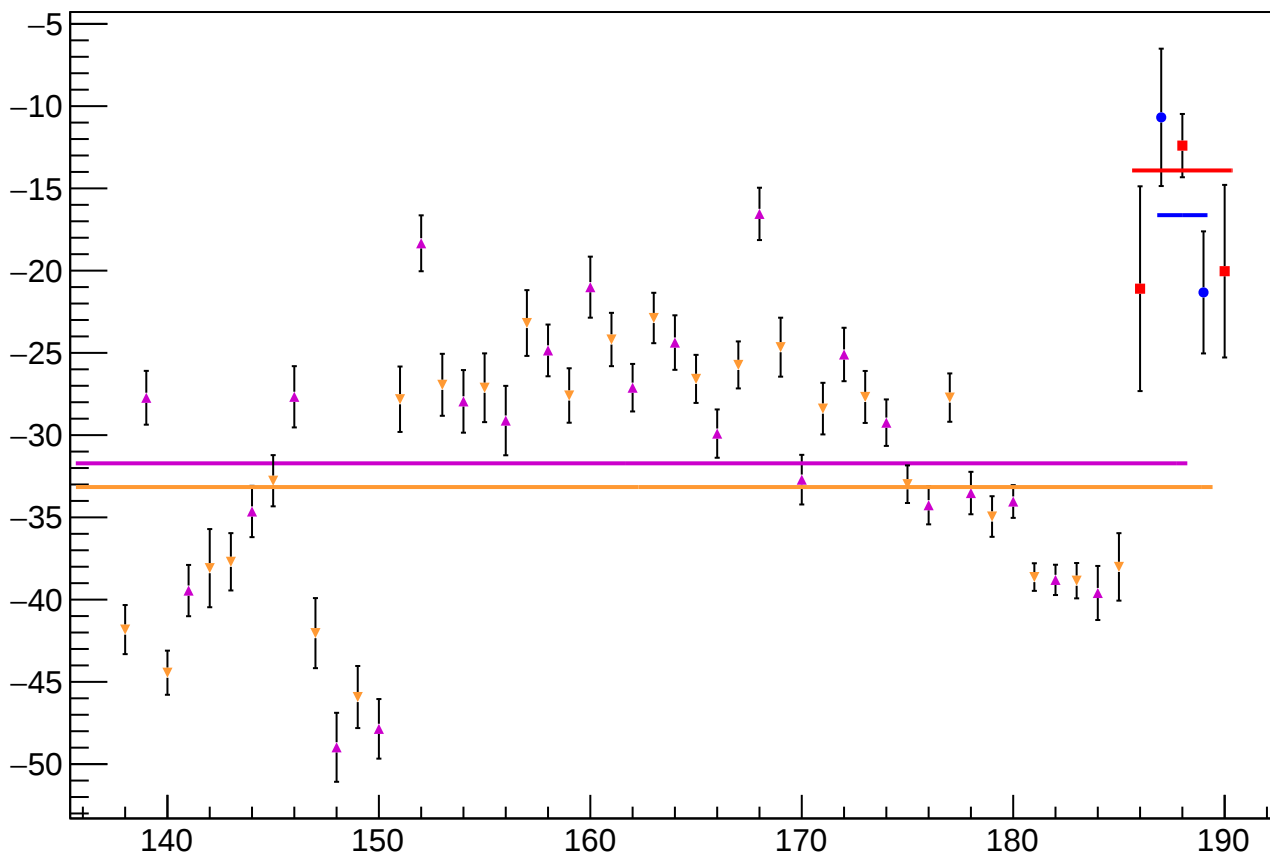
Right: 0.122 $\pm$ 0.017 χ^2 /NDF: 3242.4/40

In: 0.534 $\pm$ 0.004 χ^2 /NDF:1917.6/41

Out: 0.543 $\pm$ 0.004 χ^2 /NDF:3136.6/46

All: 0.538 $\pm$ 0.003 χ^2 /NDF: 5057.1/88

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



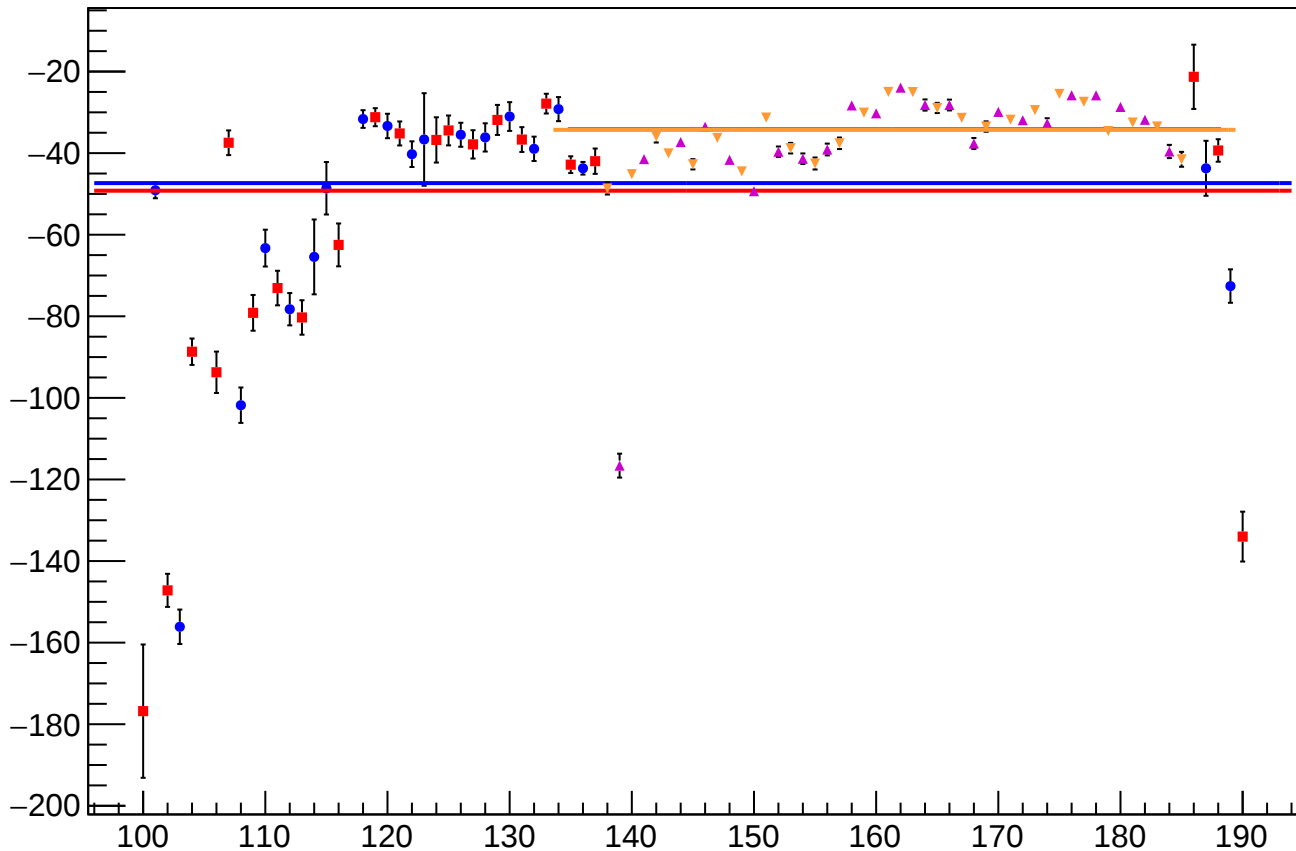
Right In: -16.628 ± 2.774 χ^2/NDF : 3.6/1
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -13.910 ± 1.735 χ^2/NDF : 3.3/2
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -14.674 ± 1.471 χ^2/NDF : 7.6/4

In: -31.530 ± 0.307 χ^2/NDF : 575.1/24
 Out: -32.597 ± 0.296 χ^2/NDF : 622.9/27

All: -32.083 ± 0.213 χ^2/NDF : 1204.3/52

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -47.347 ± 0.715 χ^2/NDF : 1115.3/18

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -49.208 ± 0.728 χ^2/NDF : 1495.6/21

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

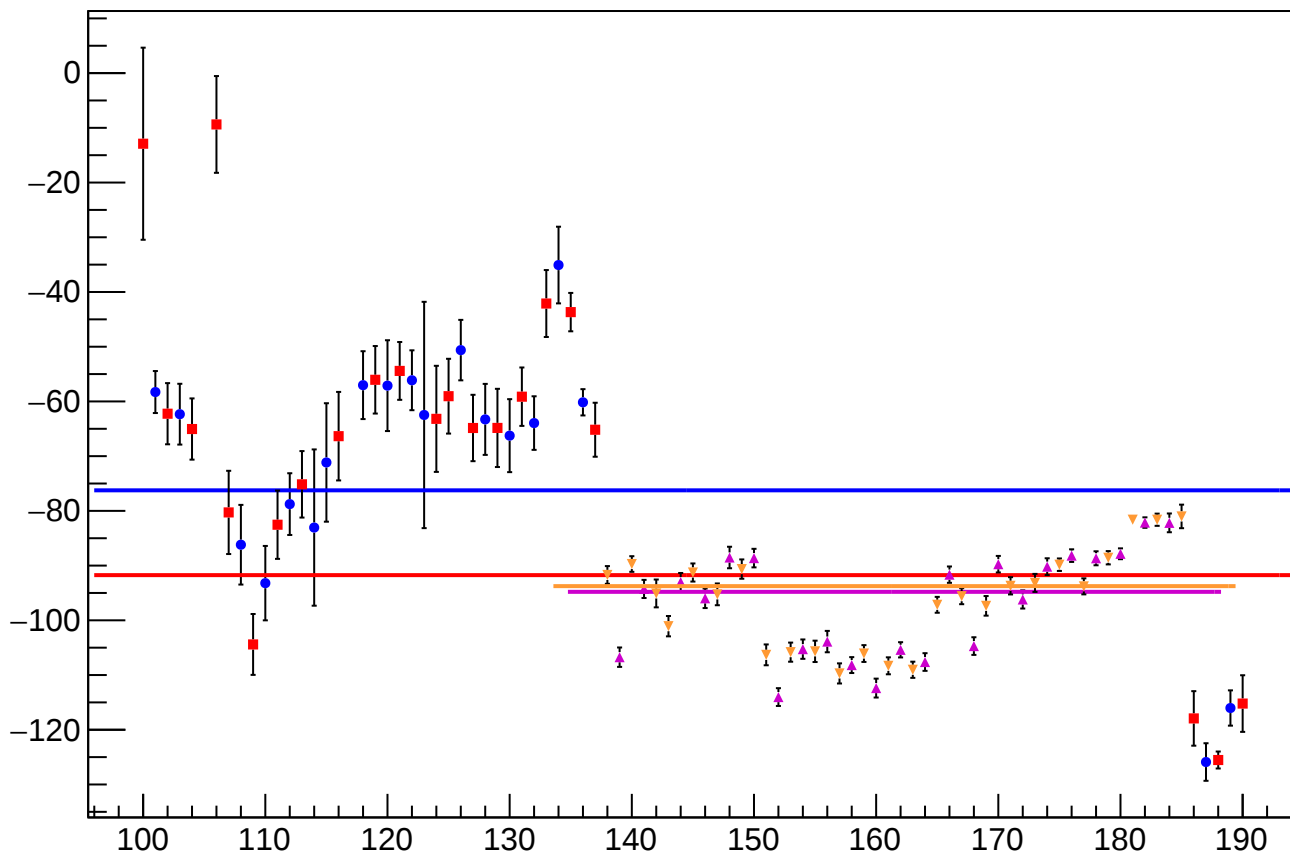
Right: -48.260 ± 0.510 χ^2/NDF : 2614.3/40

In: -35.591 ± 0.237 χ^2/NDF : 2871.4/41

Out: -35.765 ± 0.229 χ^2/NDF : 2569.2/46

All: -35.681 ± 0.165 χ^2/NDF : 5440.9/88

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.246 ± 1.149 $\chi^2/\text{NDF}: 540.8/18$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -91.743 ± 0.992 $\chi^2/\text{NDF}: 1176.1/21$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

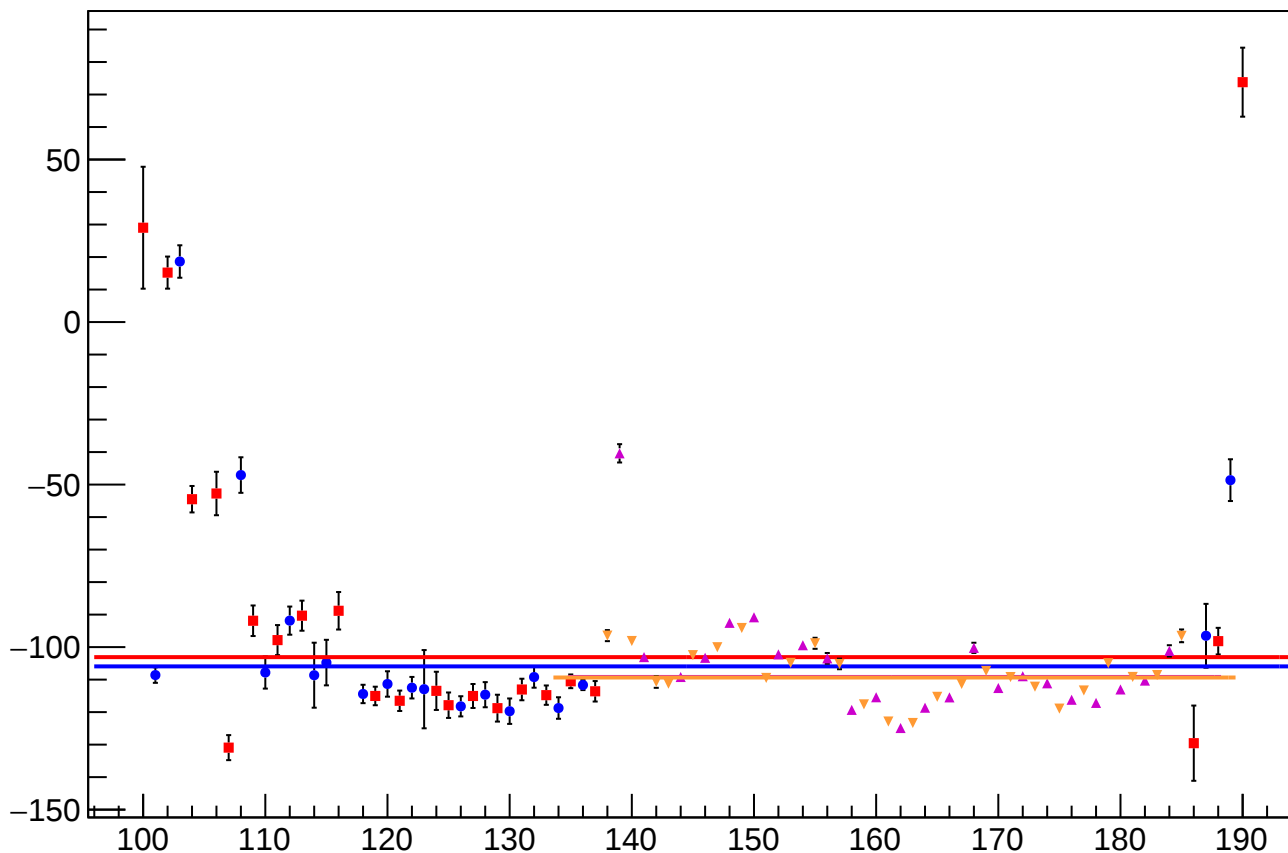
Right: -85.125 ± 0.751 $\chi^2/\text{NDF}: 1821.1/40$

In: -93.549 ± 0.298 $\chi^2/\text{NDF}: 1758.6/41$

Out: -93.584 ± 0.289 $\chi^2/\text{NDF}: 2063.0/46$

All: -93.567 ± 0.207 $\chi^2/\text{NDF}: 3821.6/88$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -105.932 ± 0.809 χ^2/NDF : 908.6/18

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -103.084 ± 0.839 χ^2/NDF : 1306.9/21

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

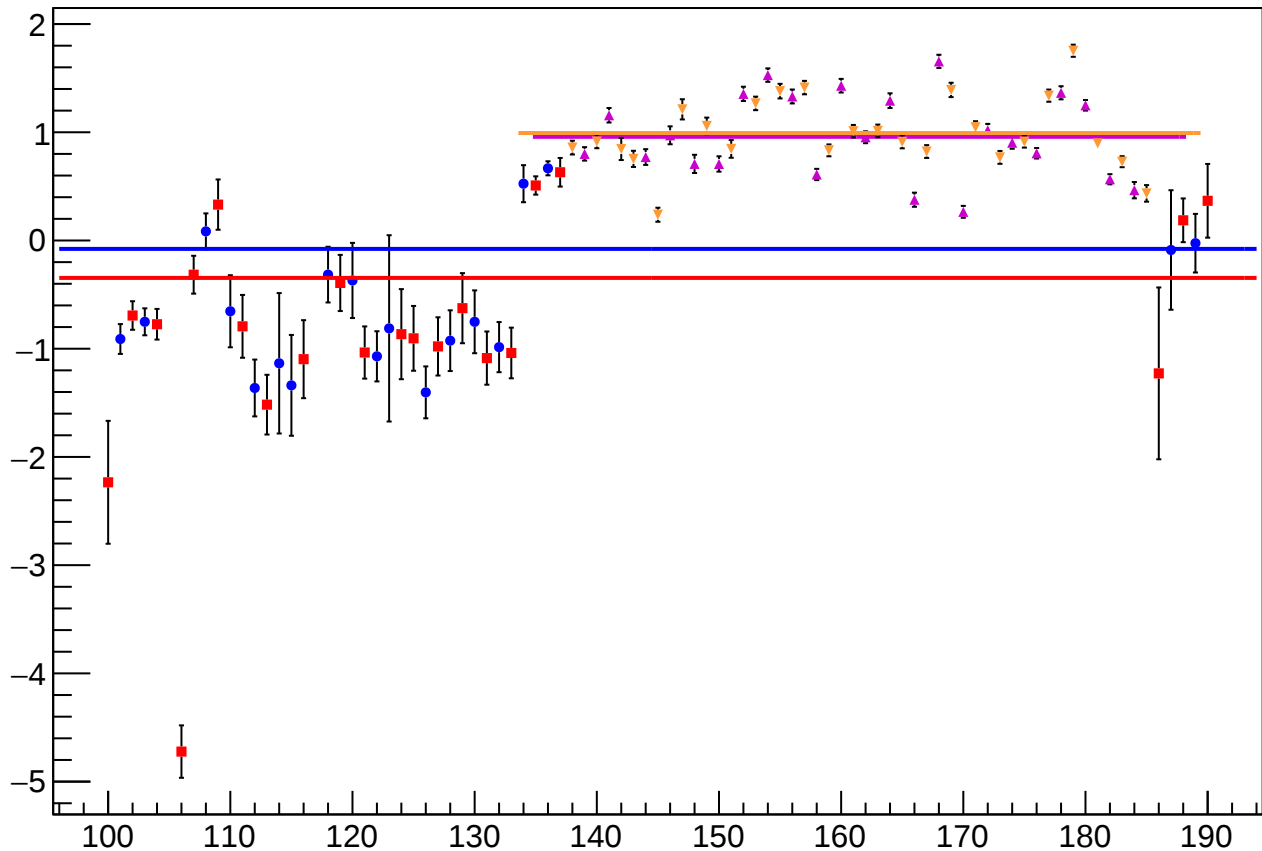
Right: -104.560 ± 0.582 χ^2/NDF : 2221.5/40

In: -108.836 ± 0.265 χ^2/NDF : 2424.2/41

Out: -108.759 ± 0.258 χ^2/NDF : 2184.2/46

All: -108.797 ± 0.185 χ^2/NDF : 4608.5/88

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.078 ± 0.042 χ^2/NDF : 328.6/18

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: -0.346 ± 0.043 χ^2/NDF : 593.3/21

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

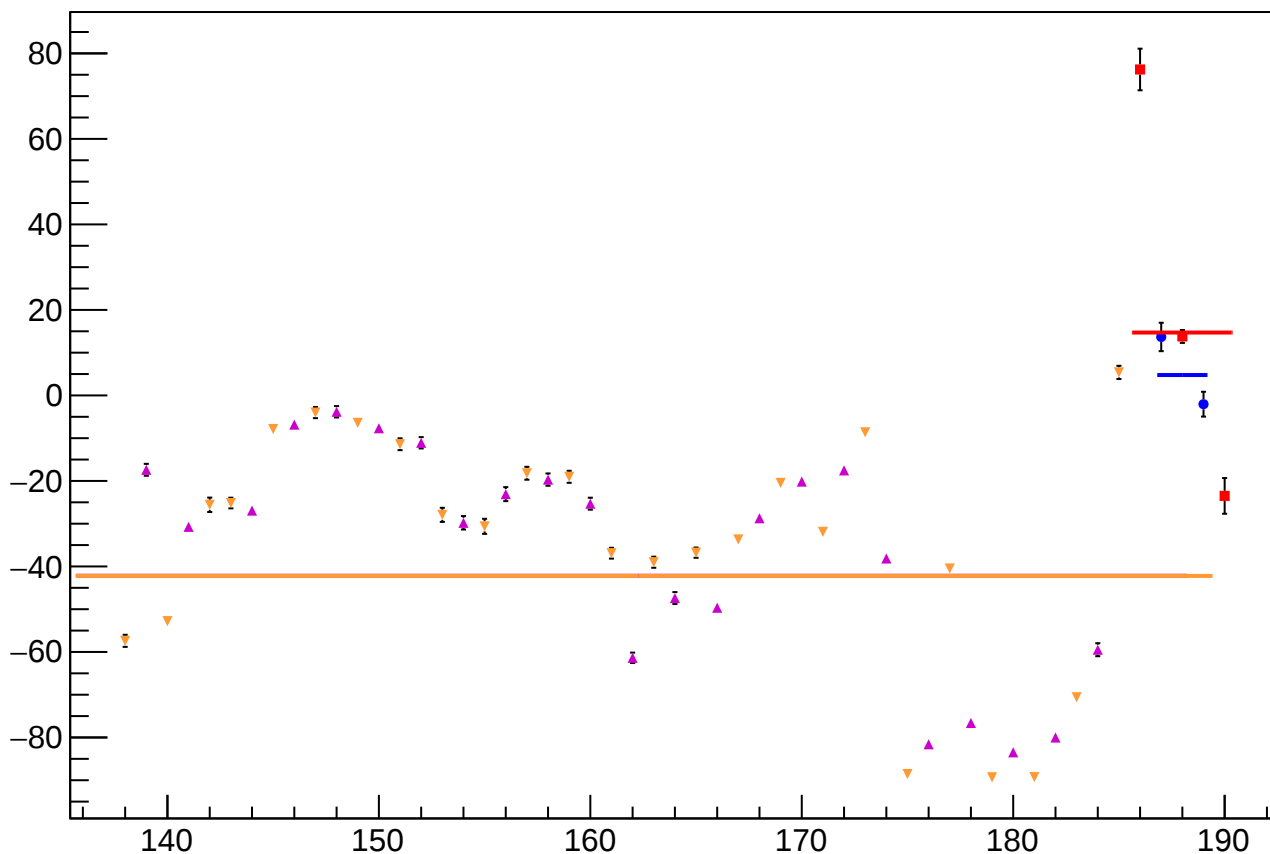
Right: -0.209 ± 0.030 χ^2/NDF : 942.2/40

In: 0.870 ± 0.012 χ^2/NDF : 1788.6/41

Out: 0.888 ± 0.012 χ^2/NDF : 2140.8/46

All: 0.880 ± 0.008 χ^2/NDF : 3930.5/88

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.771 ± 2.188 $\chi^2/\text{NDF}: 12.7/1$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: 14.710 ± 1.361 $\chi^2/\text{NDF}: 244.0/2$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

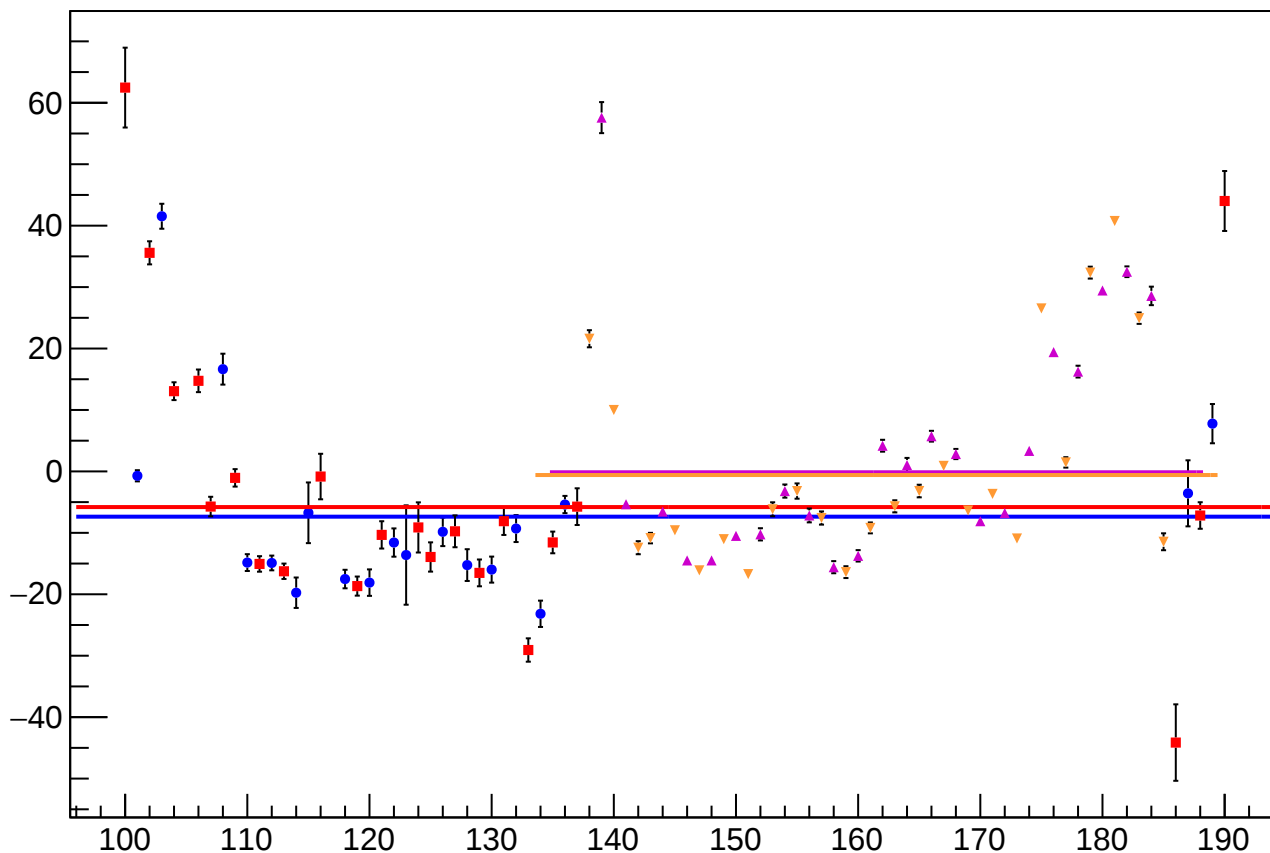
Right: 11.936 ± 1.156 $\chi^2/\text{NDF}: 271.5/4$

In: -41.676 ± 0.226 $\chi^2/\text{NDF}: 15043.9/24$

Out: -40.738 ± 0.219 $\chi^2/\text{NDF}: 20256.0/27$

All: -41.193 ± 0.157 $\chi^2/\text{NDF}: 35308.8/52$

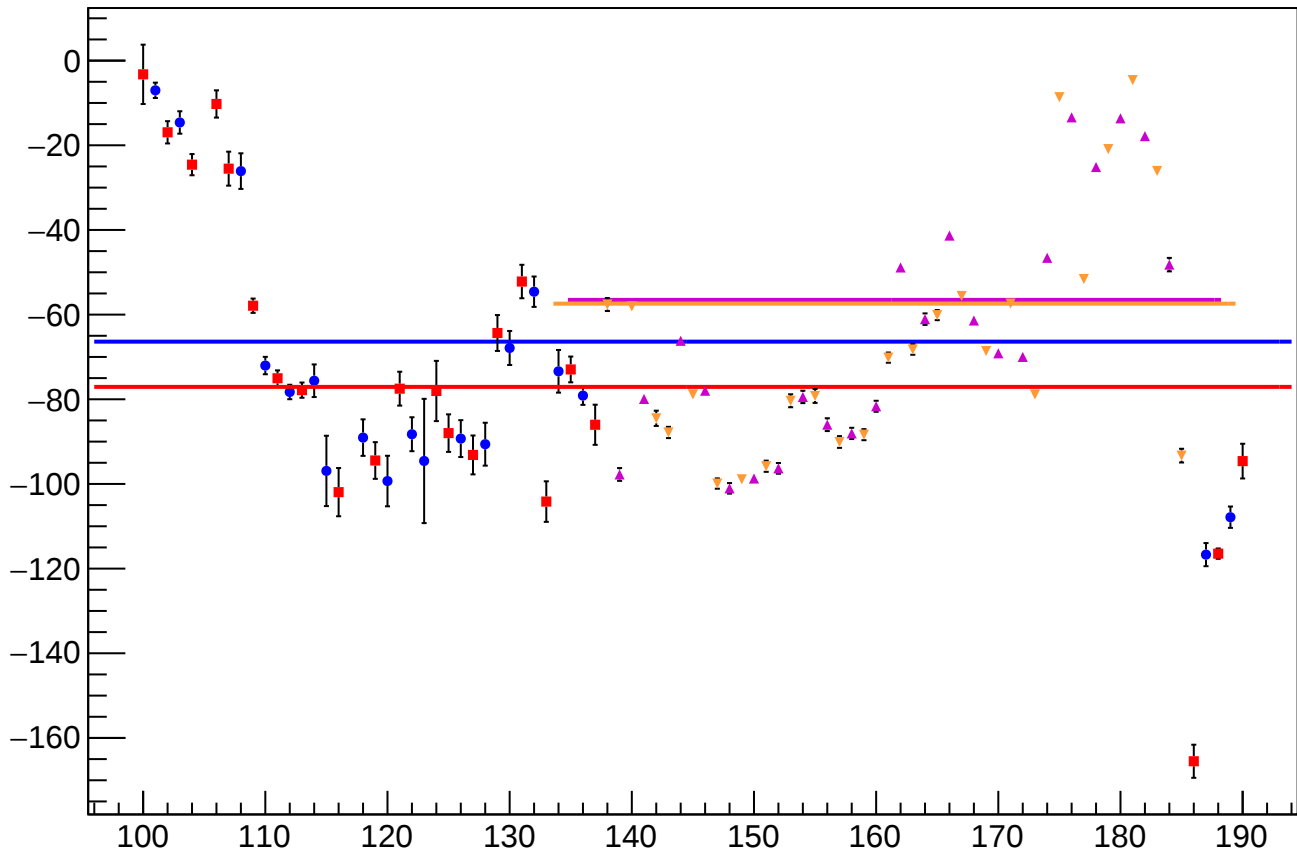
reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.368 ± 0.426 $\chi^2/\text{NDF}: 999.3/18$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -5.805 ± 0.419 $\chi^2/\text{NDF}: 1441.2/21$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -6.574 ± 0.298 $\chi^2/\text{NDF}: 2447.4/40$
 In: -1.230 ± 0.165 $\chi^2/\text{NDF}: 8106.8/41$
 Out: -1.360 ± 0.161 $\chi^2/\text{NDF}: 10324.4/46$
 All: -1.297 ± 0.115 $\chi^2/\text{NDF}: 18431.5/88$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.385 $\pm$ 0.693 χ^2 /NDF: 2416.1/18

Left Out: -57.413 $\pm$ 0.223 χ^2 /NDF:18604.1/24

Right Out: -77.072 $\pm$ 0.596 χ^2 /NDF: 3513.9/21

Left In: -56.519 $\pm$ 0.227 χ^2 /NDF:16352.6/22

Left: -56.974 $\pm$ 0.159 χ^2 /NDF: 34964.5/47

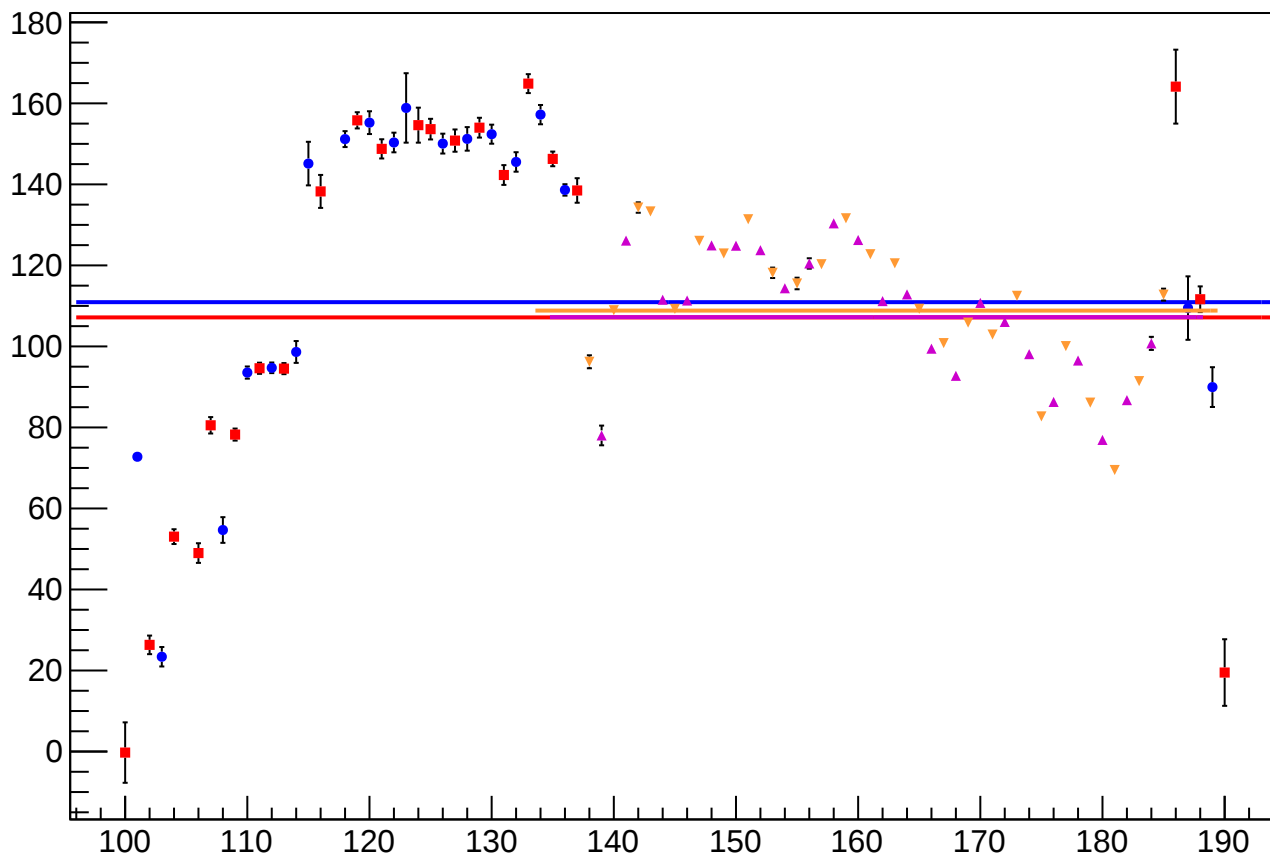
Right: -72.523 $\pm$ 0.452 χ^2 /NDF: 6066.6/40

In: -57.476 $\pm$ 0.216 χ^2 /NDF:18951.7/41

Out: -59.828 $\pm$ 0.209 χ^2 /NDF:23070.9/46

All: -58.689 $\pm$ 0.150 χ^2 /NDF: 42083.9/88

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 110.925 $\pm$ 0.487 χ^2 /NDF: 5882.0/18

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 107.162 $\pm$ 0.481 χ^2 /NDF: 7197.6/21

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

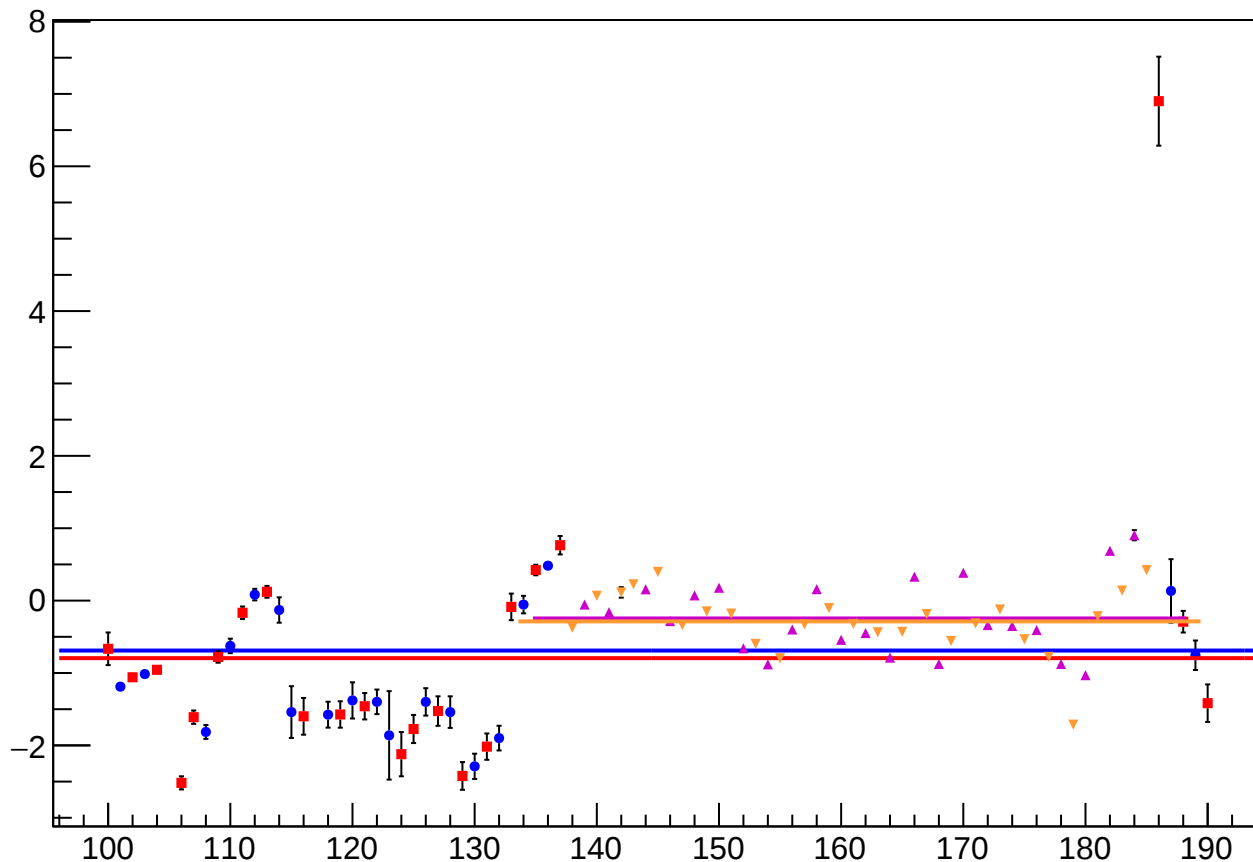
Right: 109.022 $\pm$ 0.342 χ^2 /NDF: 13109.9/40

In: 107.771 $\pm$ 0.187 χ^2 /NDF: 11496.6/41

Out: 108.604 $\pm$ 0.183 χ^2 /NDF: 14608.3/46

All: 108.197 $\pm$ 0.131 χ^2 /NDF: 26115.1/88

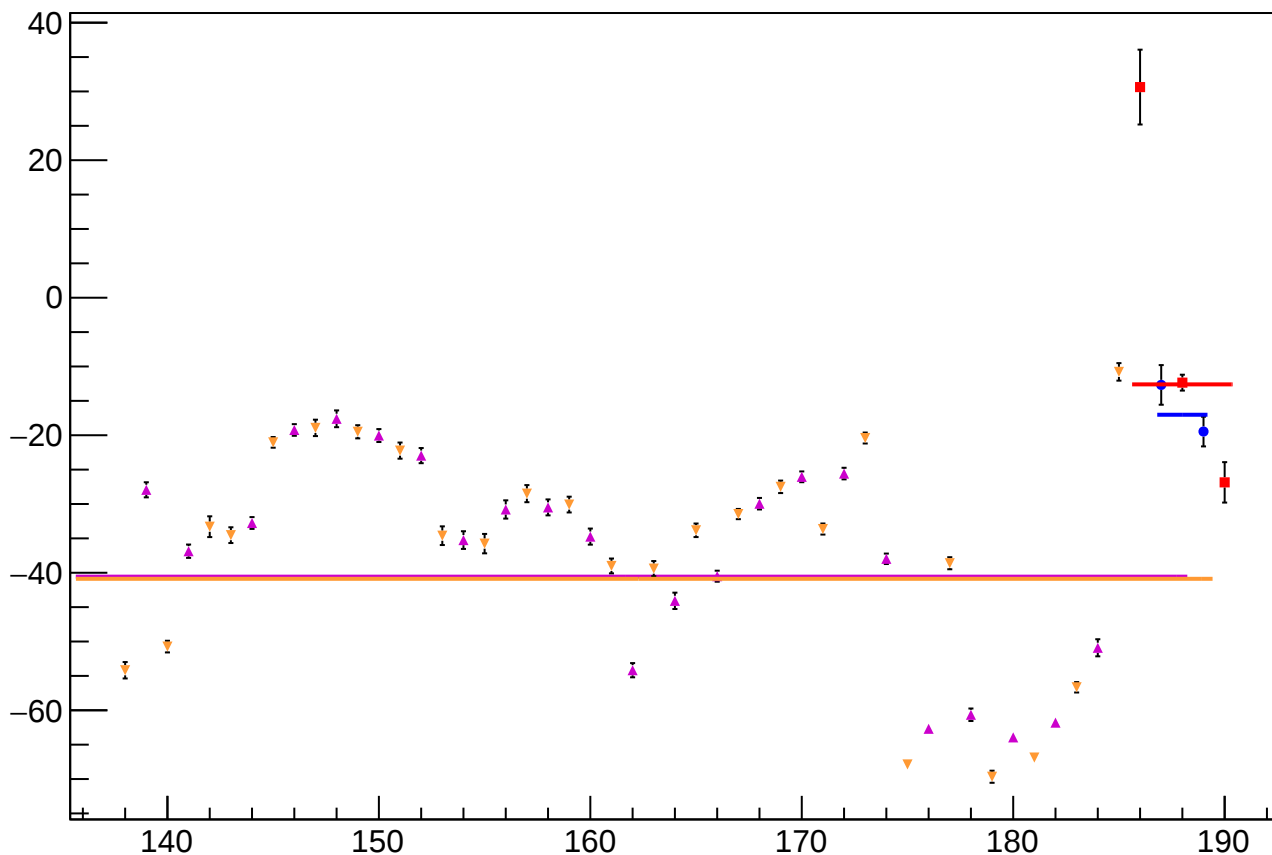
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.690 ± 0.026 χ^2/NDF : 992.5/18
 Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24
 Right Out: -0.795 ± 0.024 χ^2/NDF : 1477.0/21
 Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47
 Right: -0.746 ± 0.017 χ^2/NDF : 2478.6/40
 In: -0.298 ± 0.009 χ^2/NDF : 4050.1/41
 Out: -0.351 ± 0.008 χ^2/NDF : 3923.6/46
 All: -0.325 ± 0.006 χ^2/NDF : 7992.6/88

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



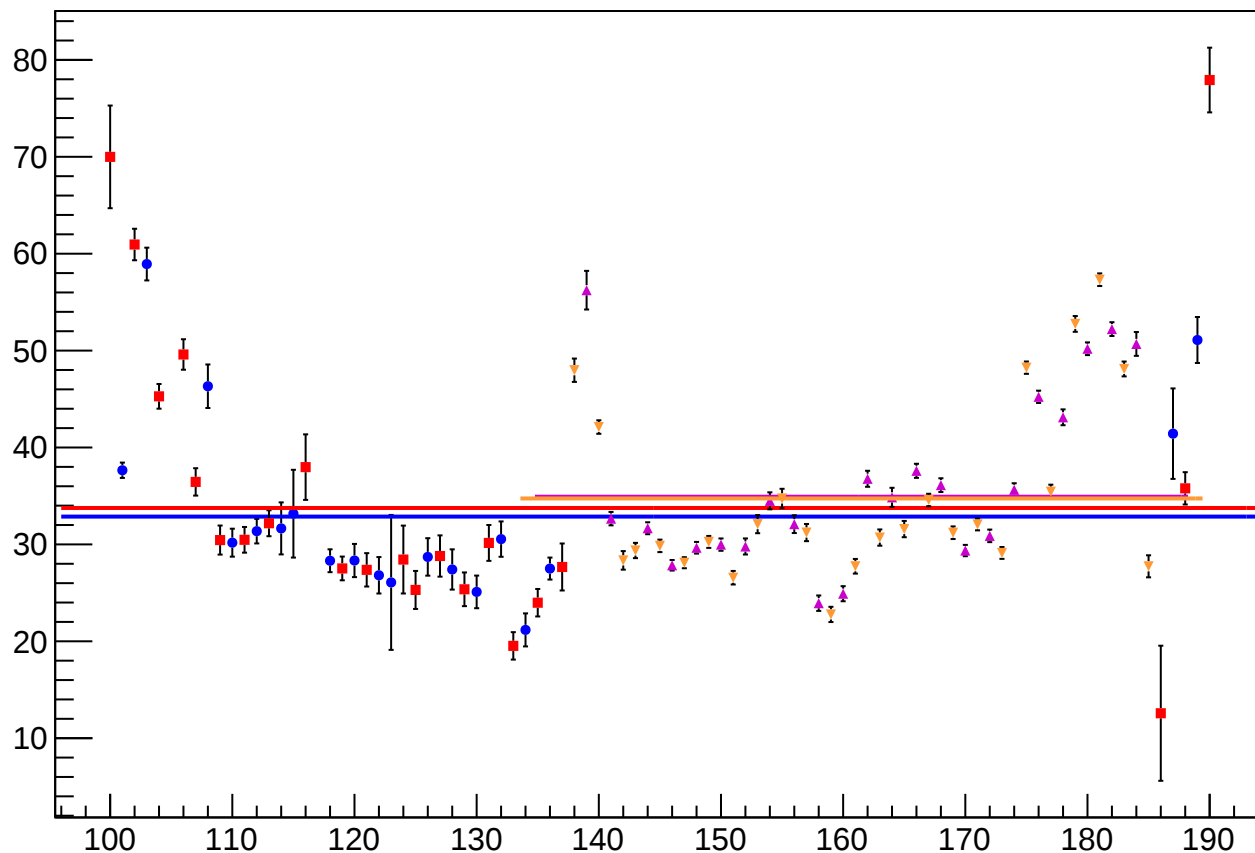
Right In: -17.020+/-1.730 χ^2/NDF : 3.5/1
 Left Out: -40.880+/-0.186 χ^2/NDF : 9123.2/24
 Right Out: -12.603+/-1.055 χ^2/NDF : 86.7/2
 Left In: -40.567+/-0.190 χ^2/NDF : 6954.7/22

Left: -40.726+/-0.133 χ^2/NDF : 16079.4/47
 Right: -13.800+/-0.900 χ^2/NDF : 95.0/4

In: -40.287+/-0.189 χ^2/NDF : 7141.3/24
 Out: -40.026+/-0.183 χ^2/NDF : 9907.1/27

All: -40.152+/-0.132 χ^2/NDF : 17049.4/52

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.870+/-0.370 χ^2 /NDF: 514.8/18

Left Out: 34.741+/-0.147 χ^2 /NDF:3693.2/24

Right Out: 33.759+/-0.367 χ^2 /NDF: 961.5/21

Left In: 34.922+/-0.152 χ^2 /NDF:2672.9/22

Left: 34.829+/-0.106 χ^2 /NDF: 6366.8/47

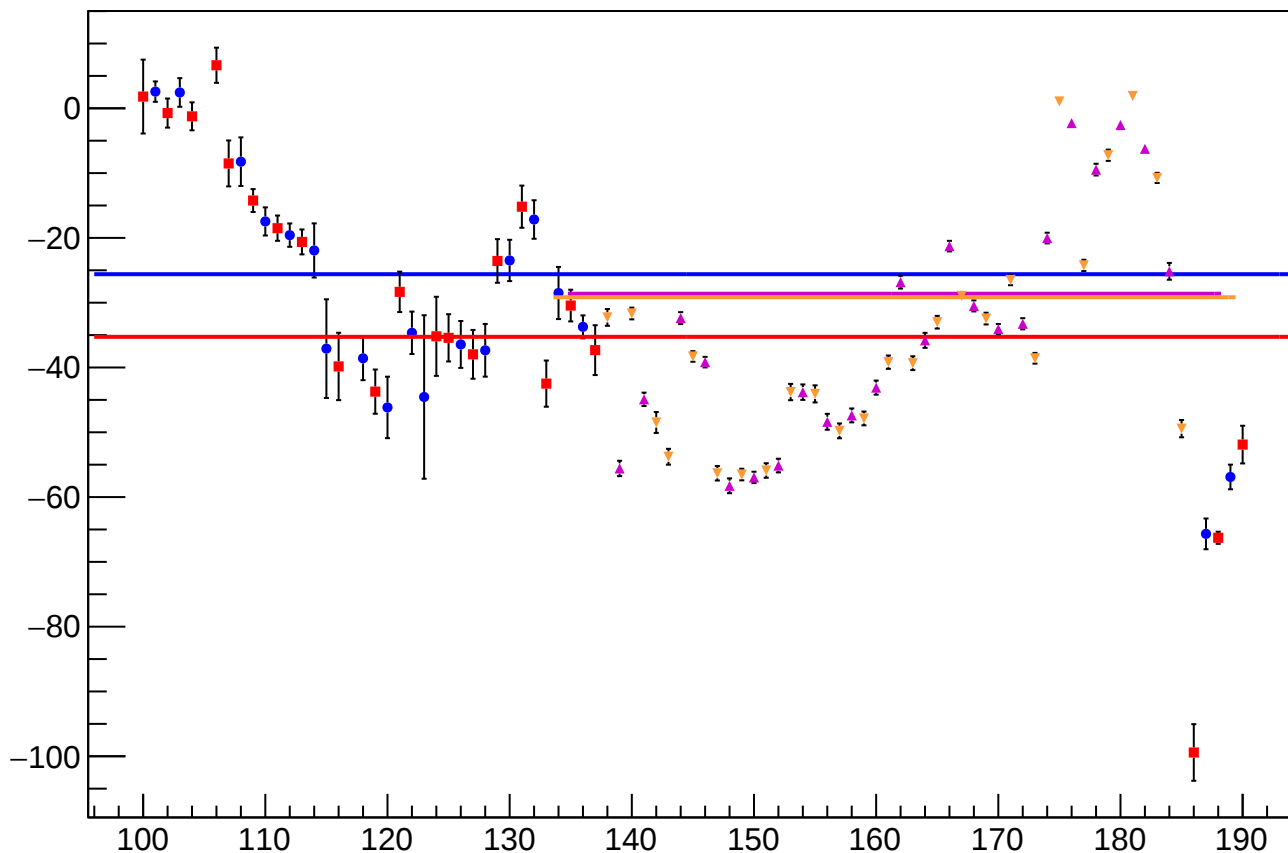
Right: 33.318+/-0.261 χ^2 /NDF: 1479.2/40

In: 34.628+/-0.140 χ^2 /NDF:3214.0/41

Out: 34.604+/-0.137 χ^2 /NDF:4660.8/46

All: 34.616+/-0.098 χ^2 /NDF: 7874.9/88

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -25.603 ± 0.610 χ^2/NDF : 1178.9/18

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -35.266 ± 0.518 χ^2/NDF : 2518.1/21

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

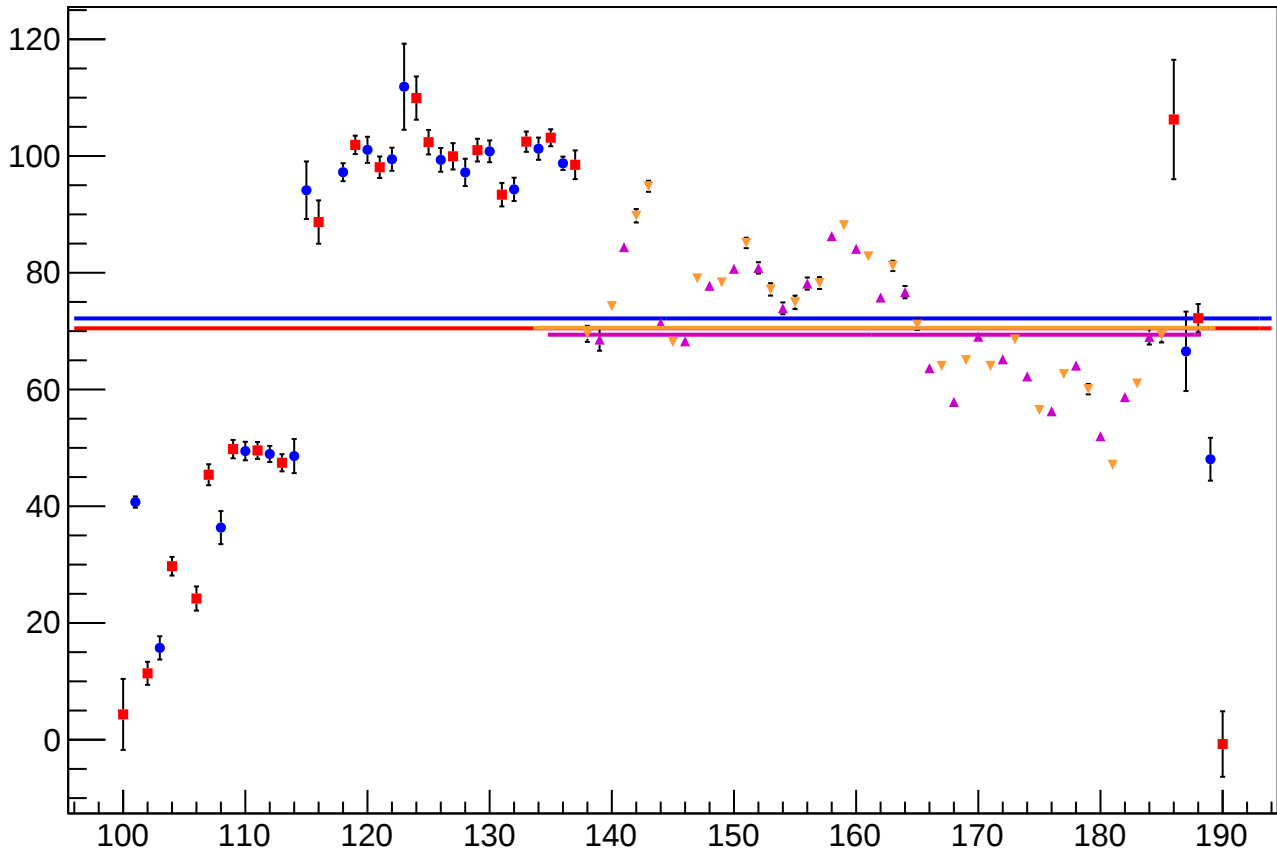
Right: -31.212 ± 0.395 χ^2/NDF : 3842.8/40

In: -28.350 ± 0.181 χ^2/NDF : 10242.0/41

Out: -29.866 ± 0.176 χ^2/NDF : 12766.8/46

All: -29.131 ± 0.126 χ^2/NDF : 23044.8/88

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 72.176 $\pm$ 0.425 χ^2 /NDF: 4716.8/18

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 70.483 $\pm$ 0.426 χ^2 /NDF: 5669.1/21

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

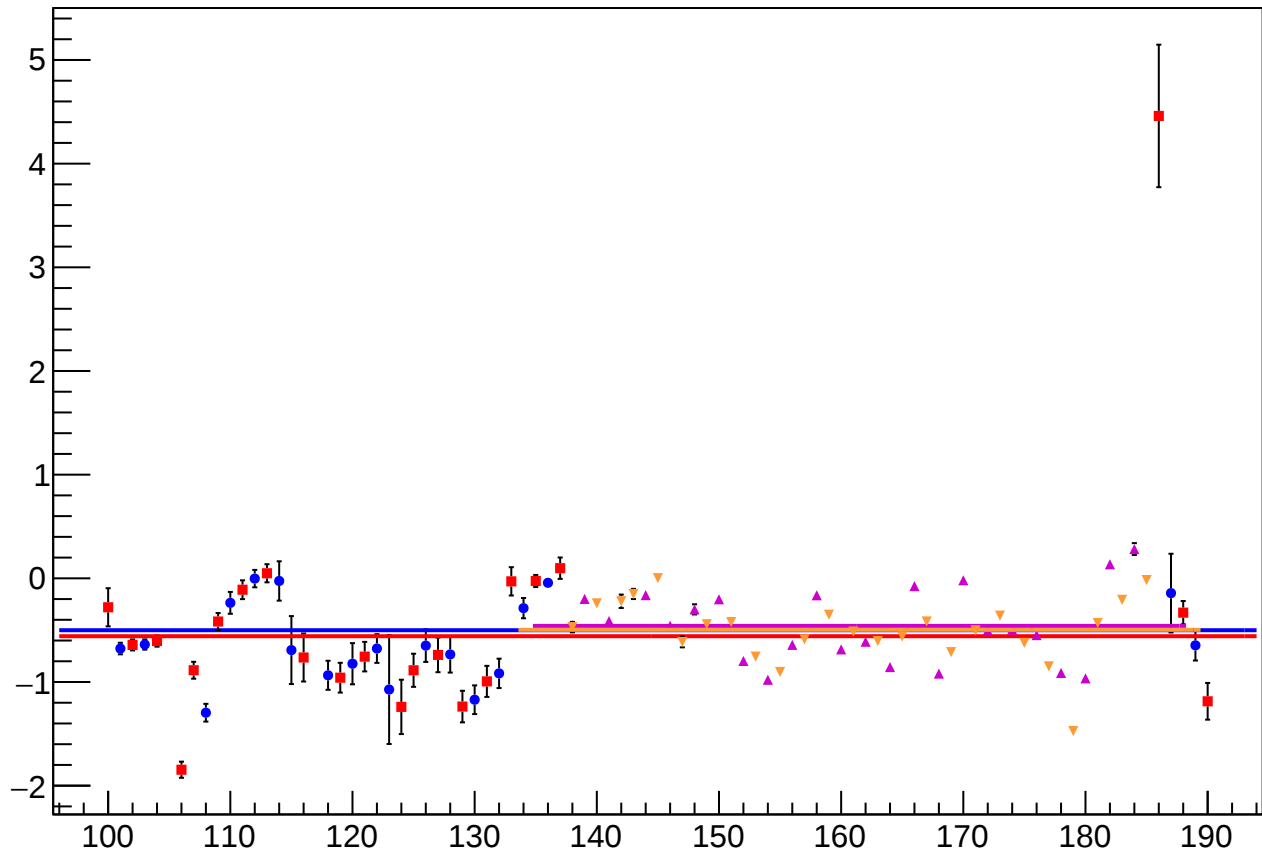
Right: 71.330 $\pm$ 0.301 χ^2 /NDF: 10393.8/40

In: 69.772 $\pm$ 0.158 χ^2 /NDF:8075.7/41

Out: 70.552 $\pm$ 0.155 χ^2 /NDF:10258.2/46

All: 70.170 $\pm$ 0.111 χ^2 /NDF: 18346.4/88

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.501 ± 0.022 χ^2/NDF : 304.0/18

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.558 ± 0.021 χ^2/NDF : 630.3/21

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

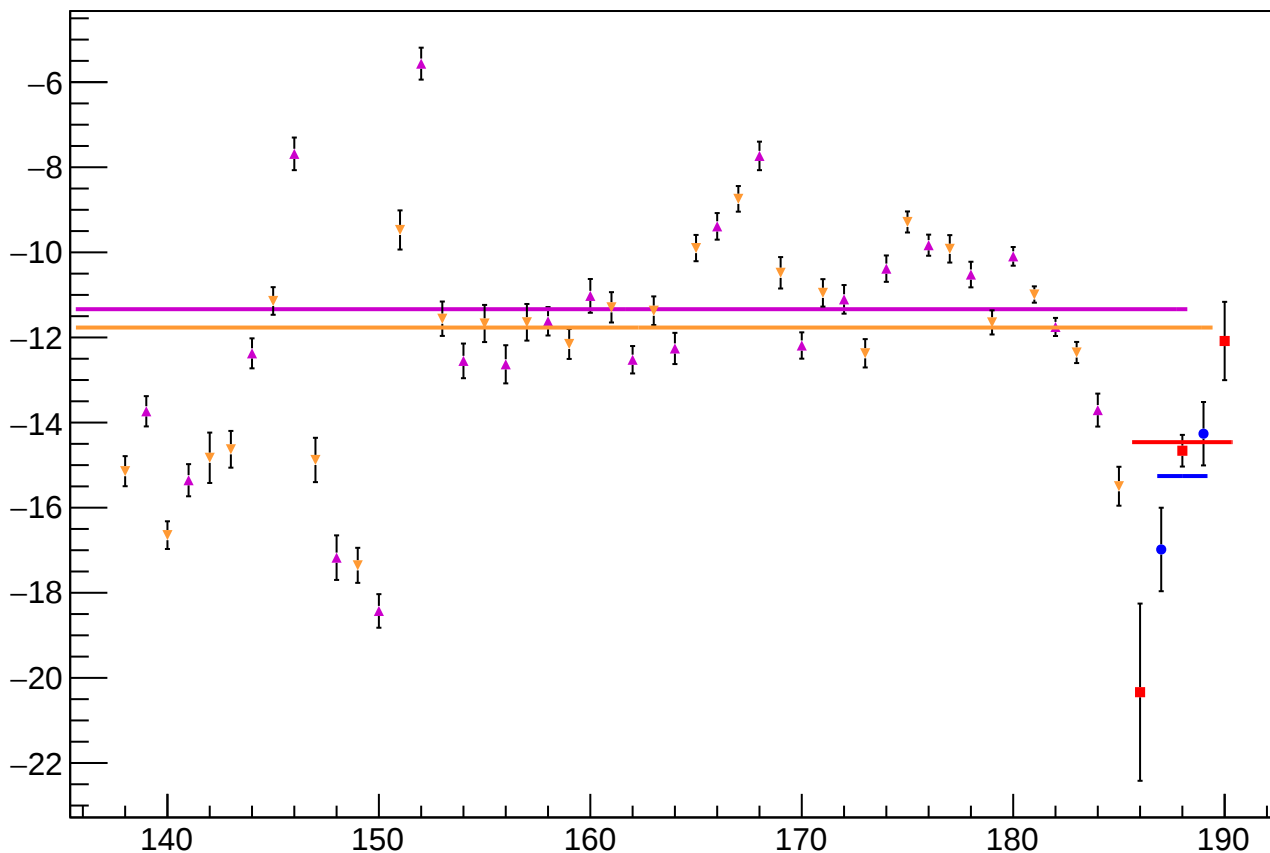
Right: -0.531 ± 0.015 χ^2/NDF : 937.9/40

In: -0.463 ± 0.007 χ^2/NDF : 2265.6/41

Out: -0.504 ± 0.007 χ^2/NDF : 2087.3/46

All: -0.484 ± 0.005 χ^2/NDF : 4368.6/88

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.257 ± 0.593 χ^2/NDF : 4.9/1

Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24

Right Out: -14.460 ± 0.340 χ^2/NDF : 14.9/2

Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47

Right: -14.658 ± 0.295 χ^2/NDF : 21.2/4

In: -11.387 ± 0.068 χ^2/NDF : 1317.3/24

Out: -11.866 ± 0.065 χ^2/NDF : 1096.0/27

All: -11.634 ± 0.047 χ^2/NDF : 2439.3/52

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.241 ± 0.149 χ^2/NDF : 1380.9/18

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -34.328 ± 0.144 χ^2/NDF : 1681.1/21

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

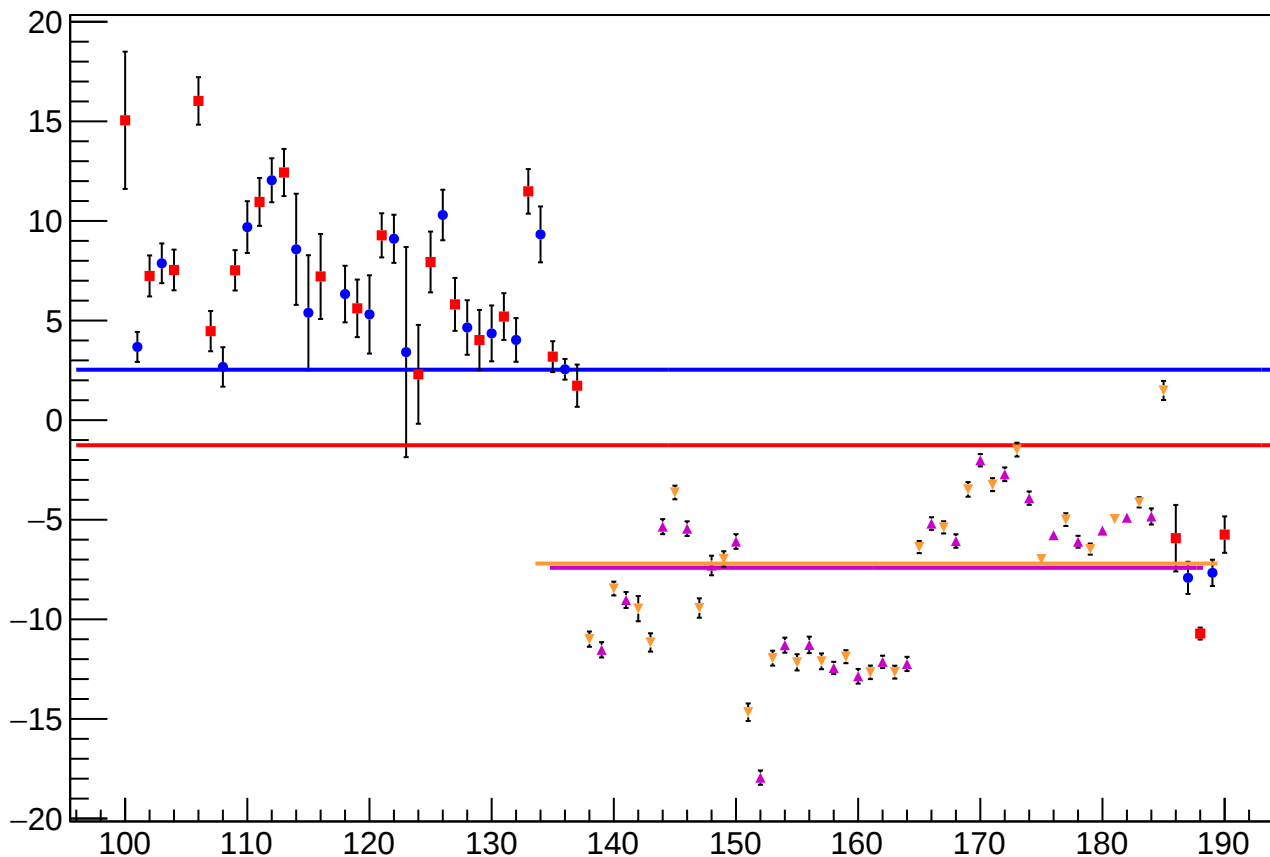
Right: -34.286 ± 0.103 χ^2/NDF : 3062.2/40

In: -30.627 ± 0.052 χ^2/NDF : 3279.5/41

Out: -30.719 ± 0.050 χ^2/NDF : 3133.9/46

All: -30.674 ± 0.036 χ^2/NDF : 6415.0/88

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

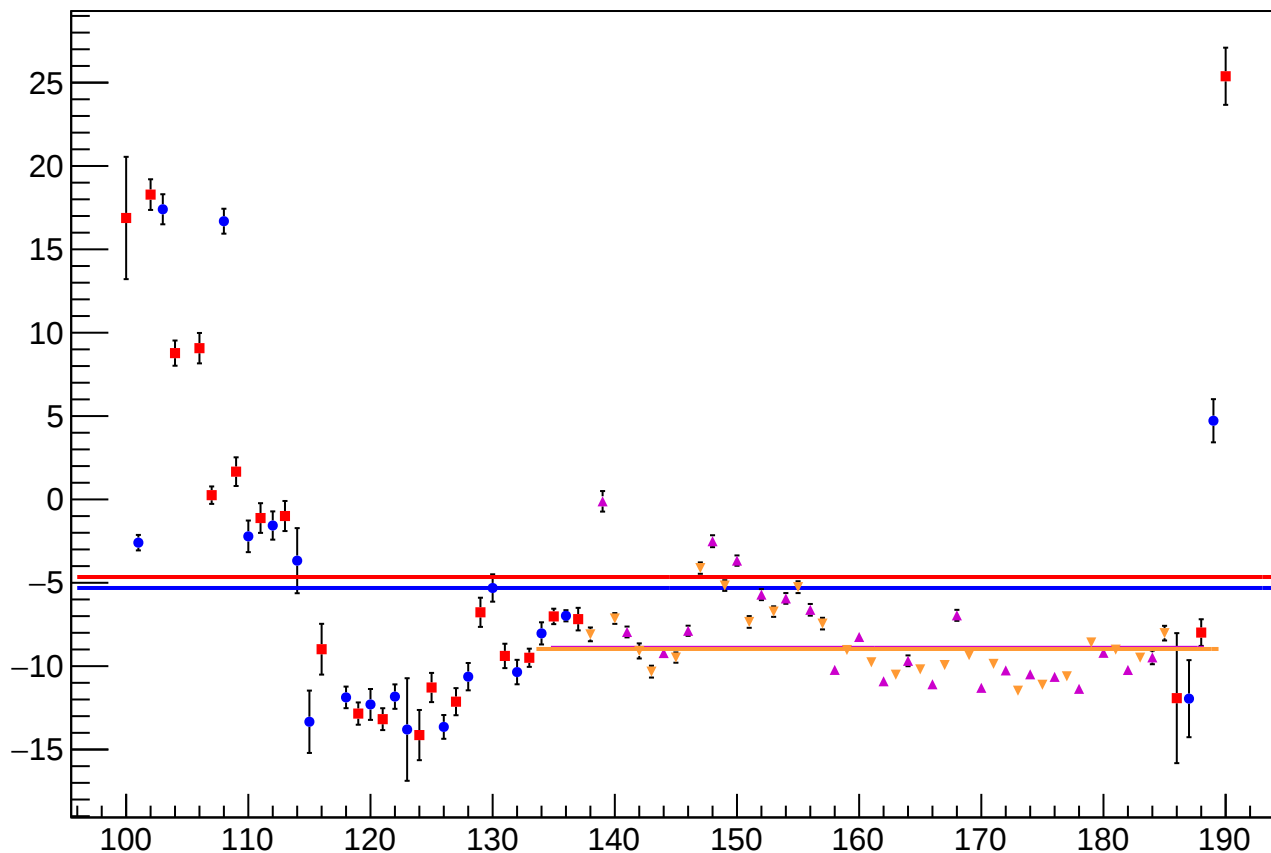


Right In: 2.533 ± 0.239 $\chi^2/\text{NDF}: 653.8/18$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.260 ± 0.197 $\chi^2/\text{NDF}: 2151.2/21$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: 0.269 ± 0.152 $\chi^2/\text{NDF}: 2955.1/40$
 In: -6.674 ± 0.065 $\chi^2/\text{NDF}: 5378.0/41$
 Out: -6.583 ± 0.063 $\chi^2/\text{NDF}: 6006.9/46$

All: -6.627 ± 0.045 $\chi^2/\text{NDF}: 11385.9/88$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.312 ± 0.169 $\chi^2/\text{NDF}: 2166.0/18$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -4.653 ± 0.168 $\chi^2/\text{NDF}: 2375.8/21$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

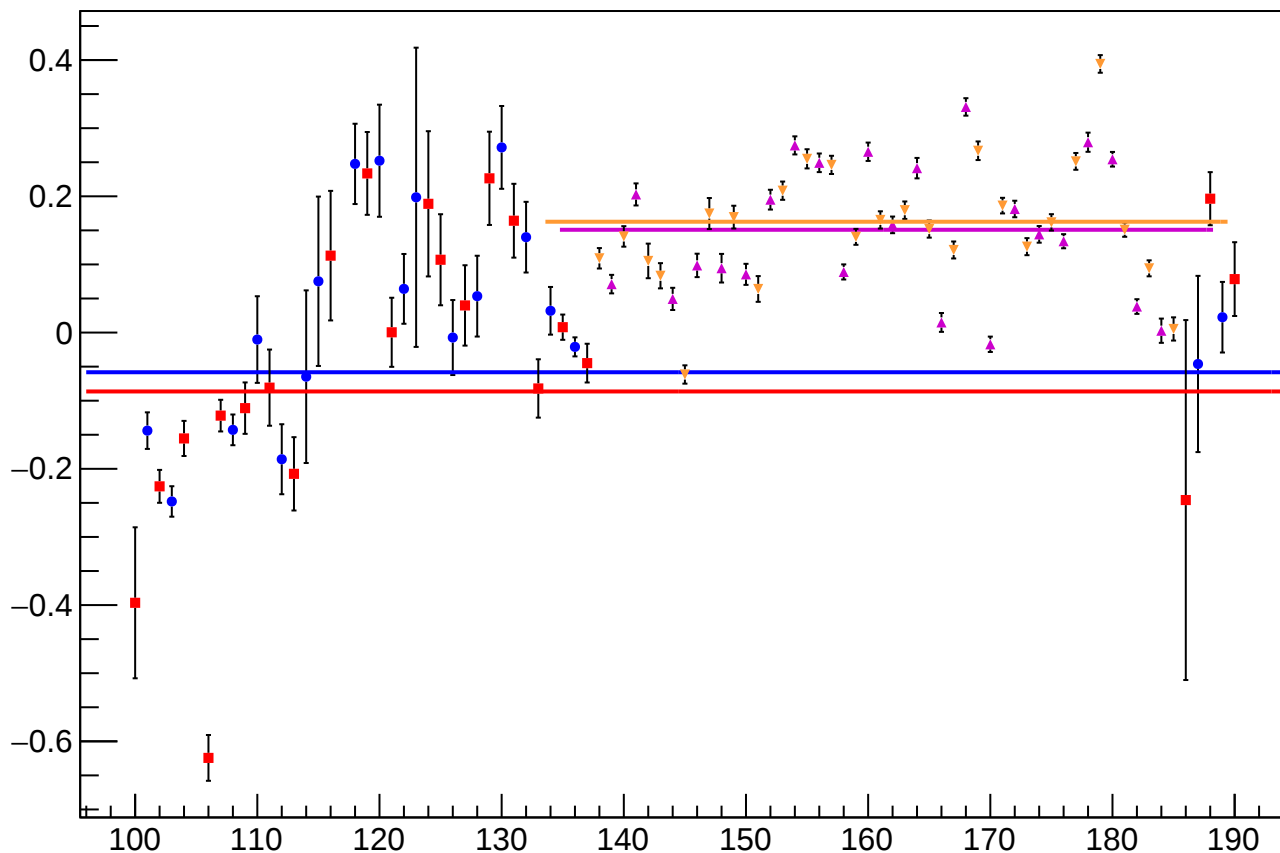
Right: -4.981 ± 0.119 $\chi^2/\text{NDF}: 4549.4/40$

In: -8.479 ± 0.058 $\chi^2/\text{NDF}: 4097.3/41$

Out: -8.481 ± 0.057 $\chi^2/\text{NDF}: 3838.0/46$

All: -8.480 ± 0.040 $\chi^2/\text{NDF}: 7935.4/88$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.058 ± 0.008 χ^2/NDF : 217.0/18

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.086 ± 0.008 χ^2/NDF : 499.5/21

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

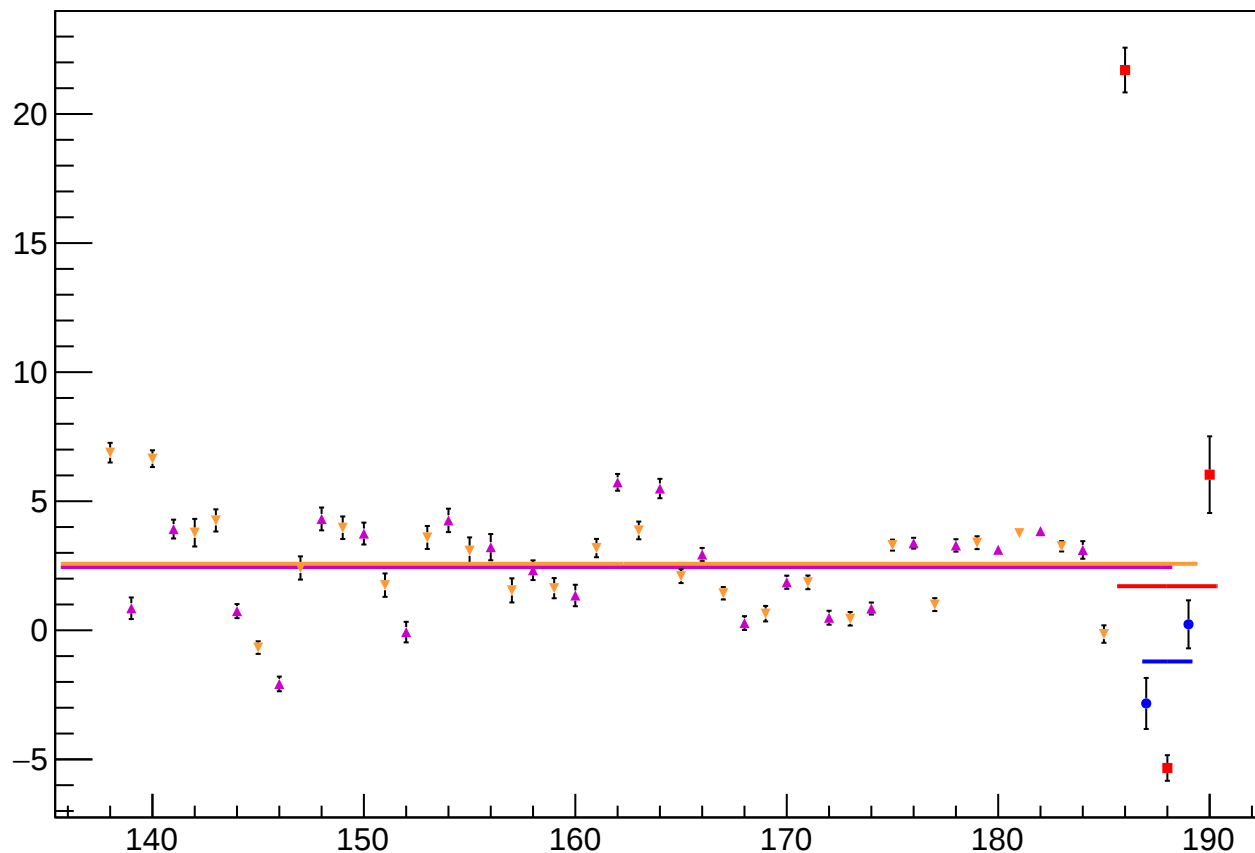
Right: -0.073 ± 0.006 χ^2/NDF : 722.5/40

In: 0.130 ± 0.003 χ^2/NDF : 2077.1/41

Out: 0.138 ± 0.003 χ^2/NDF : 2357.2/46

All: 0.134 ± 0.002 χ^2/NDF : 4438.7/88

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.208 ± 0.677 $\chi^2/\text{NDF}: 5.1/1$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 1.708 ± 0.414 $\chi^2/\text{NDF}: 742.3/2$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

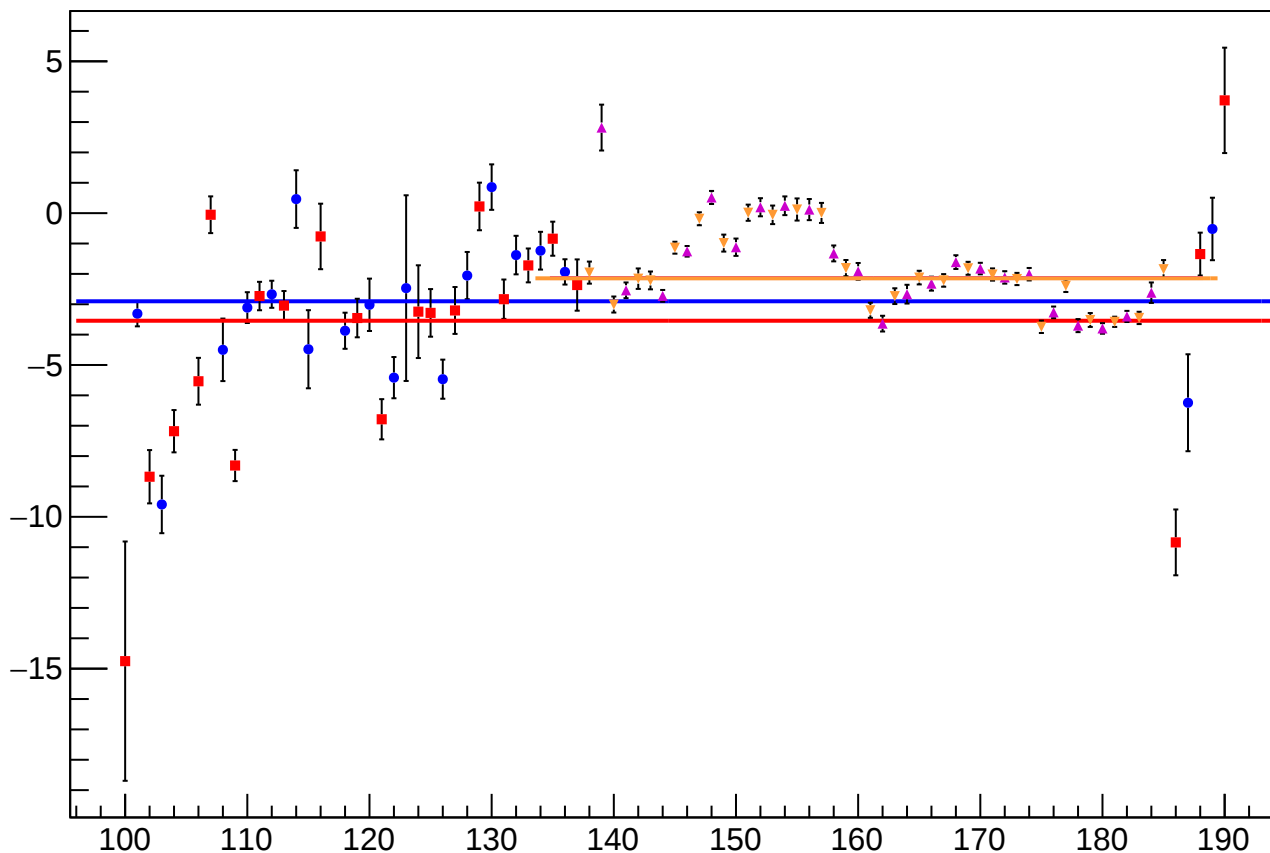
Right: 0.916 ± 0.353 $\chi^2/\text{NDF}: 760.9/4$

In: 2.424 ± 0.059 $\chi^2/\text{NDF}: 905.3/24$

Out: 2.560 ± 0.058 $\chi^2/\text{NDF}: 1614.0/27$

All: 2.494 ± 0.041 $\chi^2/\text{NDF}: 2522.1/52$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.902 ± 0.153 χ^2/NDF : 154.7/18

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -3.543 ± 0.149 χ^2/NDF : 363.3/21

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

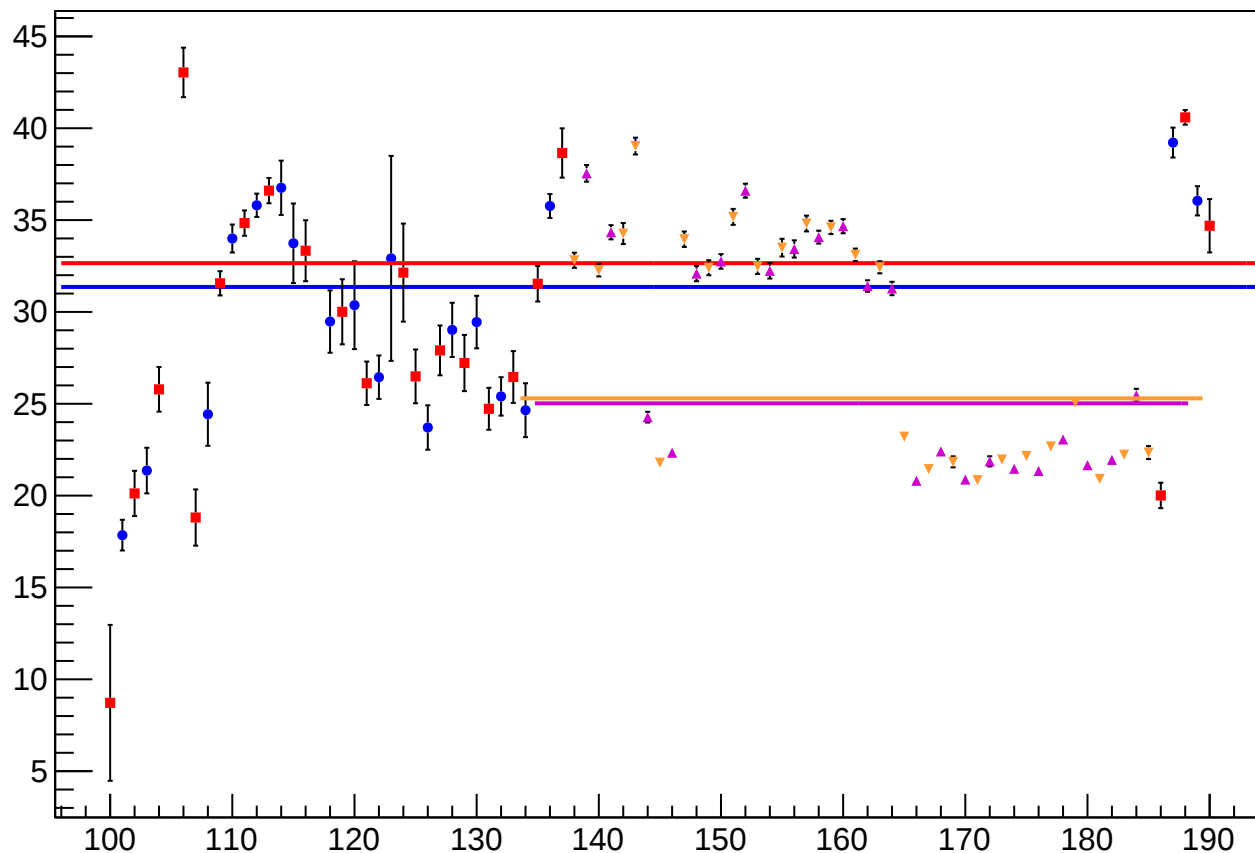
Right: -3.230 ± 0.107 χ^2/NDF : 527.0/40

In: -2.206 ± 0.046 χ^2/NDF : 868.8/41

Out: -2.275 ± 0.045 χ^2/NDF : 1016.3/46

All: -2.241 ± 0.032 χ^2/NDF : 1886.2/88

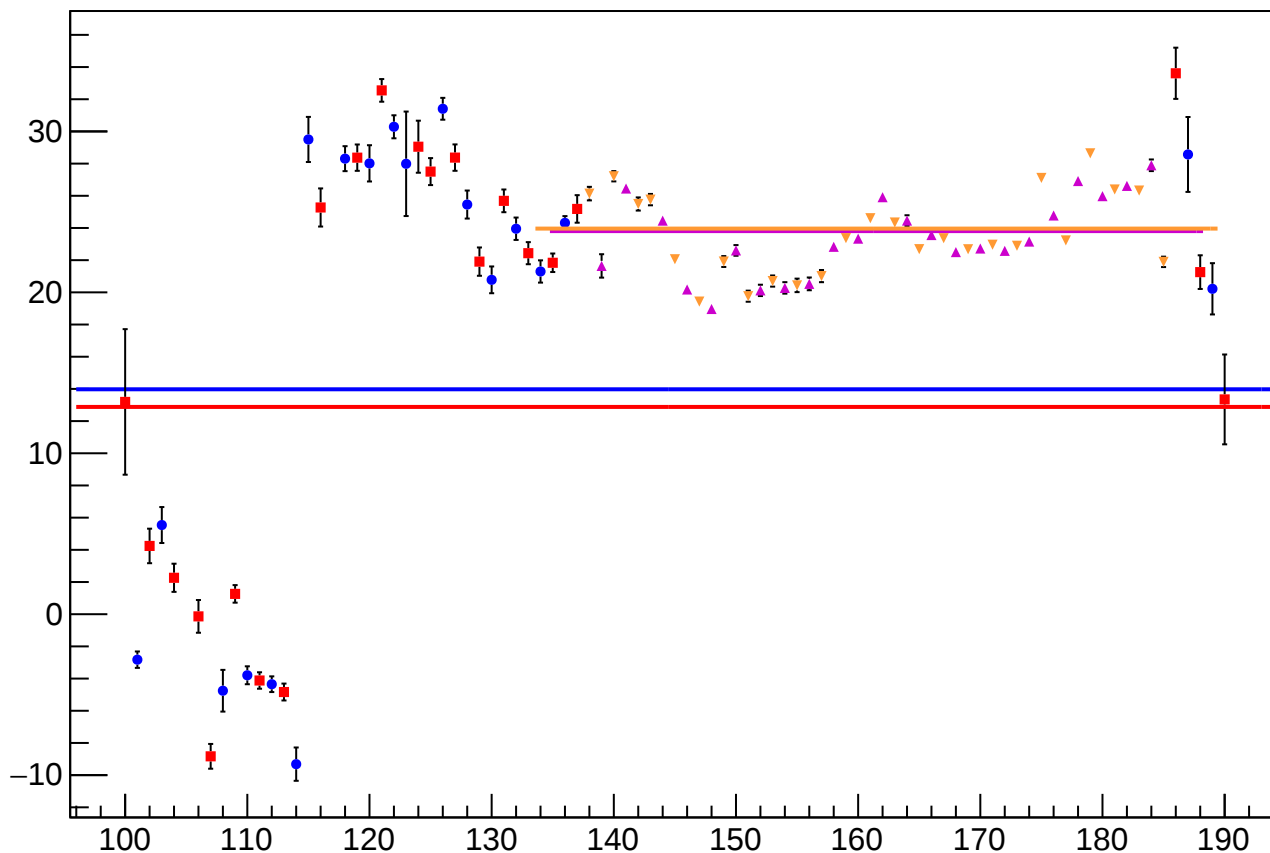
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 31.360 $\pm$ 0.242 χ^2 /NDF: 709.0/18
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24
 Right Out: 32.655 $\pm$ 0.206 χ^2 /NDF: 1246.4/21
 Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47
 Right: 32.111 $\pm$ 0.157 χ^2 /NDF: 1972.0/40
 In: 25.387 $\pm$ 0.058 χ^2 /NDF:8964.2/41
 Out: 25.851 $\pm$ 0.057 χ^2 /NDF:10697.9/46
 All: 25.624 $\pm$ 0.040 χ^2 /NDF: 19694.9/88

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.976 $\pm$ 0.172 χ^2 /NDF: 7330.2/18

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.880 $\pm$ 0.170 χ^2 /NDF: 7194.3/21

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

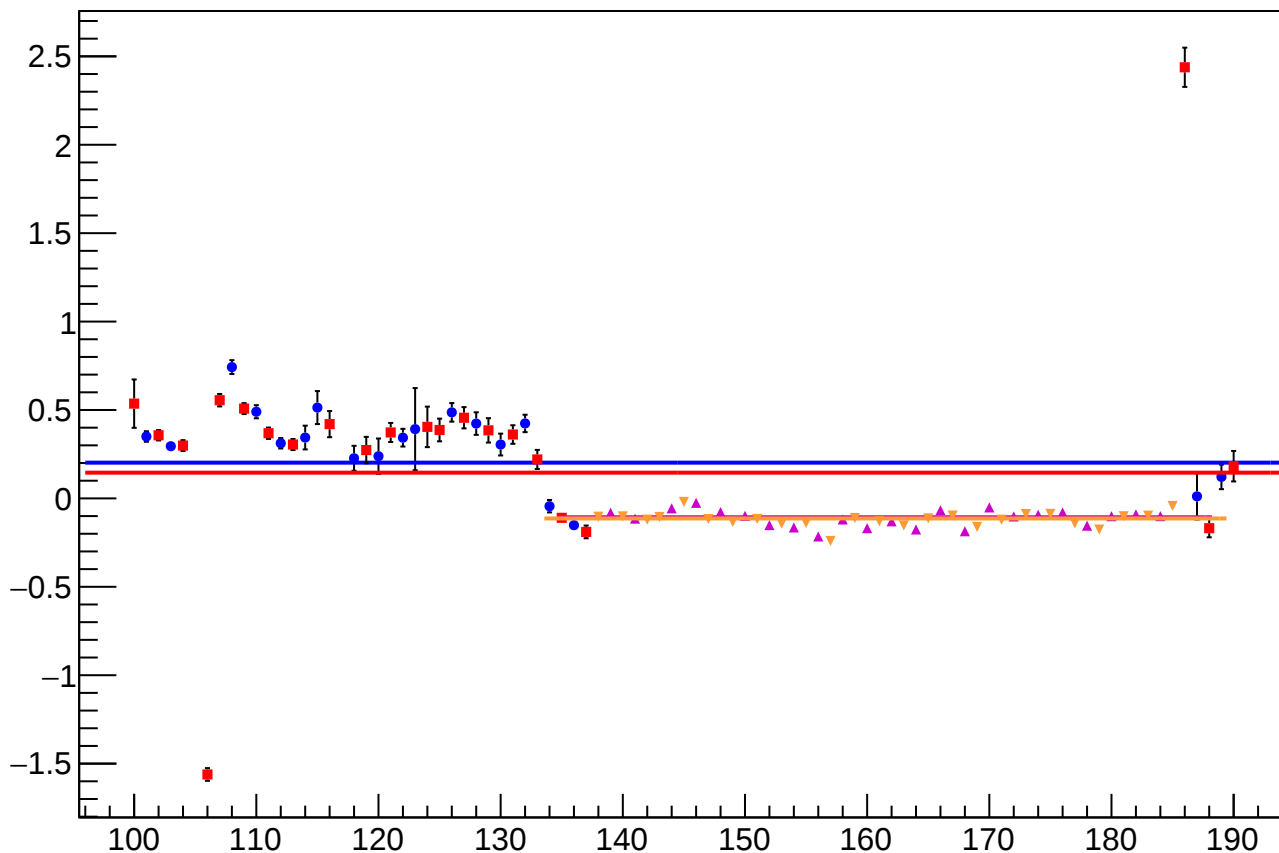
Right: 13.424 $\pm$ 0.121 χ^2 /NDF: 14545.0/40

In: 22.918 $\pm$ 0.052 χ^2 /NDF:12078.3/41

Out: 22.979 $\pm$ 0.051 χ^2 /NDF:12973.7/46

All: 22.949 $\pm$ 0.036 χ^2 /NDF: 25052.8/88

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.202 ± 0.009 $\chi^2/\text{NDF}: 850.0/18$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.146 ± 0.009 $\chi^2/\text{NDF}: 3478.3/21$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

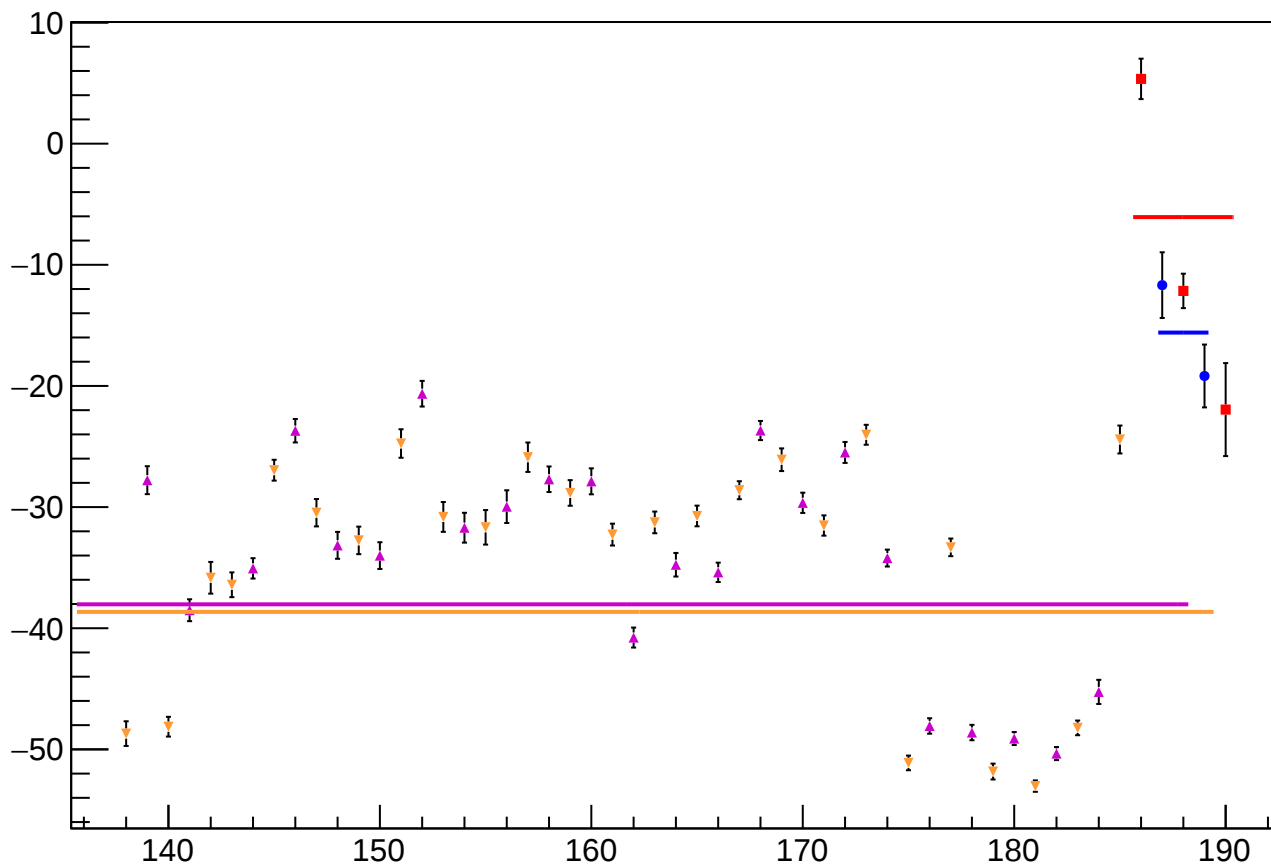
Right: 0.173 ± 0.006 $\chi^2/\text{NDF}: 4347.5/40$

In: -0.086 ± 0.002 $\chi^2/\text{NDF}: 2207.2/41$

Out: -0.096 ± 0.002 $\chi^2/\text{NDF}: 4542.8/46$

All: -0.091 ± 0.002 $\chi^2/\text{NDF}: 6758.3/88$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

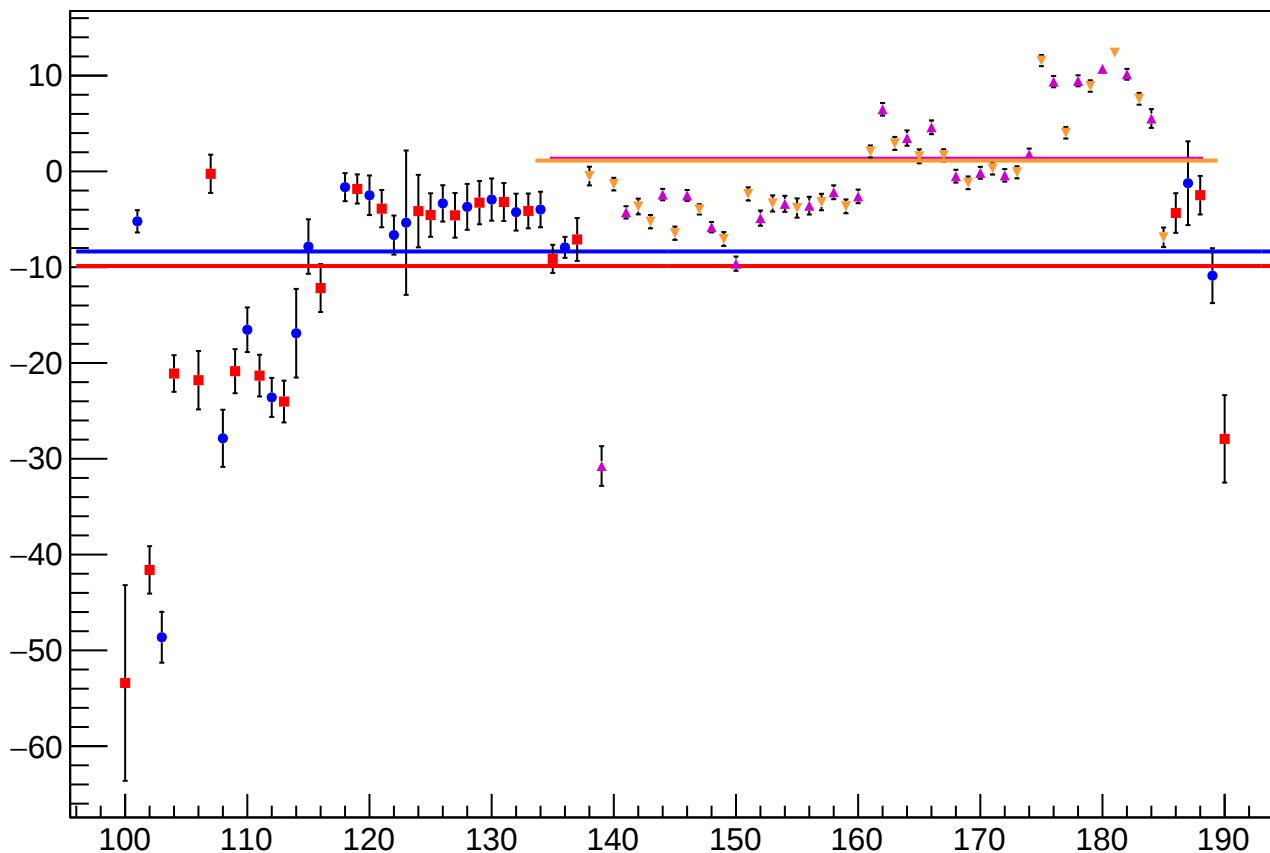


Right In: -15.594 ± 1.874 $\chi^2/\text{NDF}: 4.0/1$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -6.063 ± 1.041 $\chi^2/\text{NDF}: 82.2/2$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$
 Right: -8.312 ± 0.910 $\chi^2/\text{NDF}: 106.0/4$
 In: -37.837 ± 0.172 $\chi^2/\text{NDF}: 3238.0/24$
 Out: -37.813 ± 0.167 $\chi^2/\text{NDF}: 5113.3/27$

All: -37.825 ± 0.120 $\chi^2/\text{NDF}: 8351.4/52$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.359 ± 0.458 $\chi^2/\text{NDF}: 411.9/18$

Left Out: 1.130 ± 0.136 $\chi^2/\text{NDF}: 1799.3/24$

Right Out: -9.879 ± 0.463 $\chi^2/\text{NDF}: 467.3/21$

Left In: 1.329 ± 0.140 $\chi^2/\text{NDF}: 2048.0/22$

Left: 1.227 ± 0.097 $\chi^2/\text{NDF}: 3848.4/47$

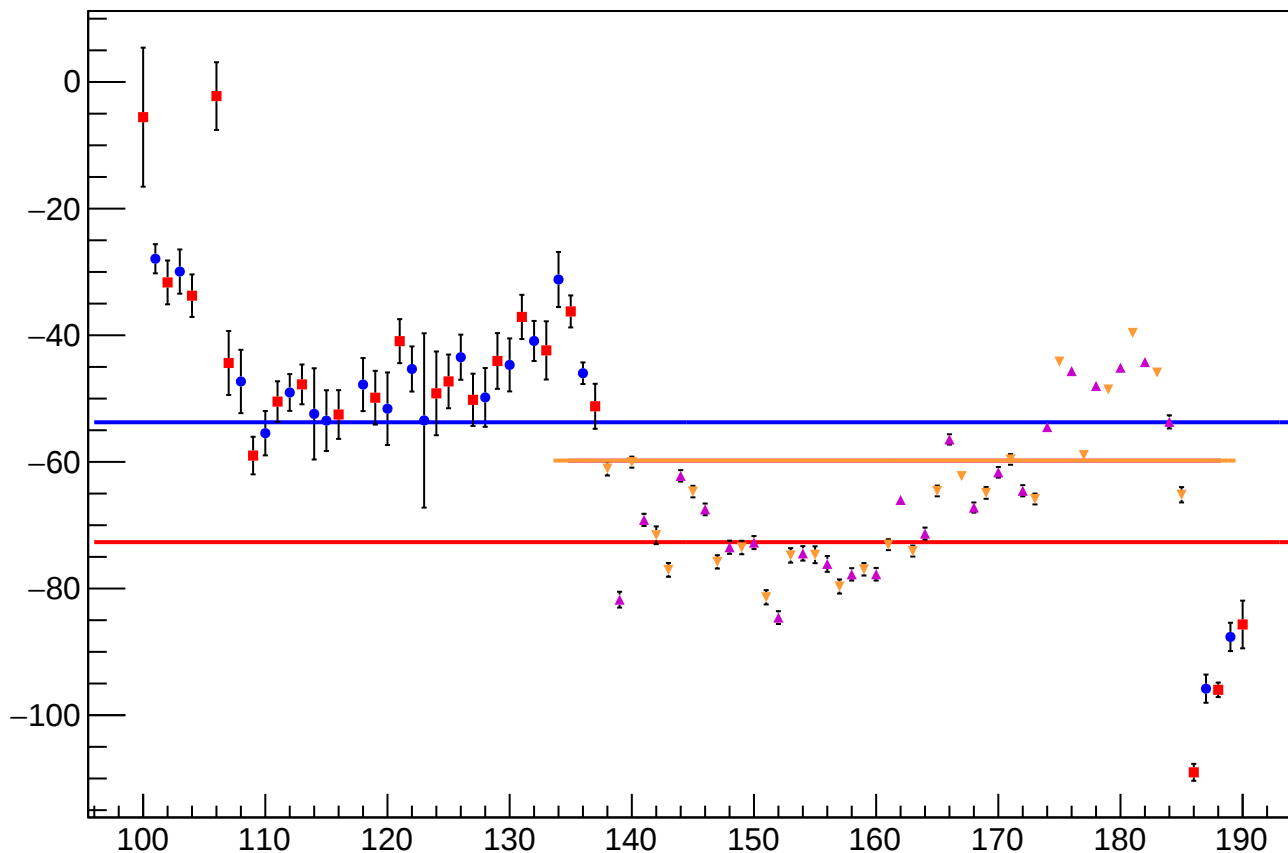
Right: -9.111 ± 0.326 $\chi^2/\text{NDF}: 884.7/40$

In: 0.503 ± 0.134 $\chi^2/\text{NDF}: 2869.3/41$

Out: 0.256 ± 0.130 $\chi^2/\text{NDF}: 2787.2/46$

All: 0.376 ± 0.093 $\chi^2/\text{NDF}: 5658.2/88$

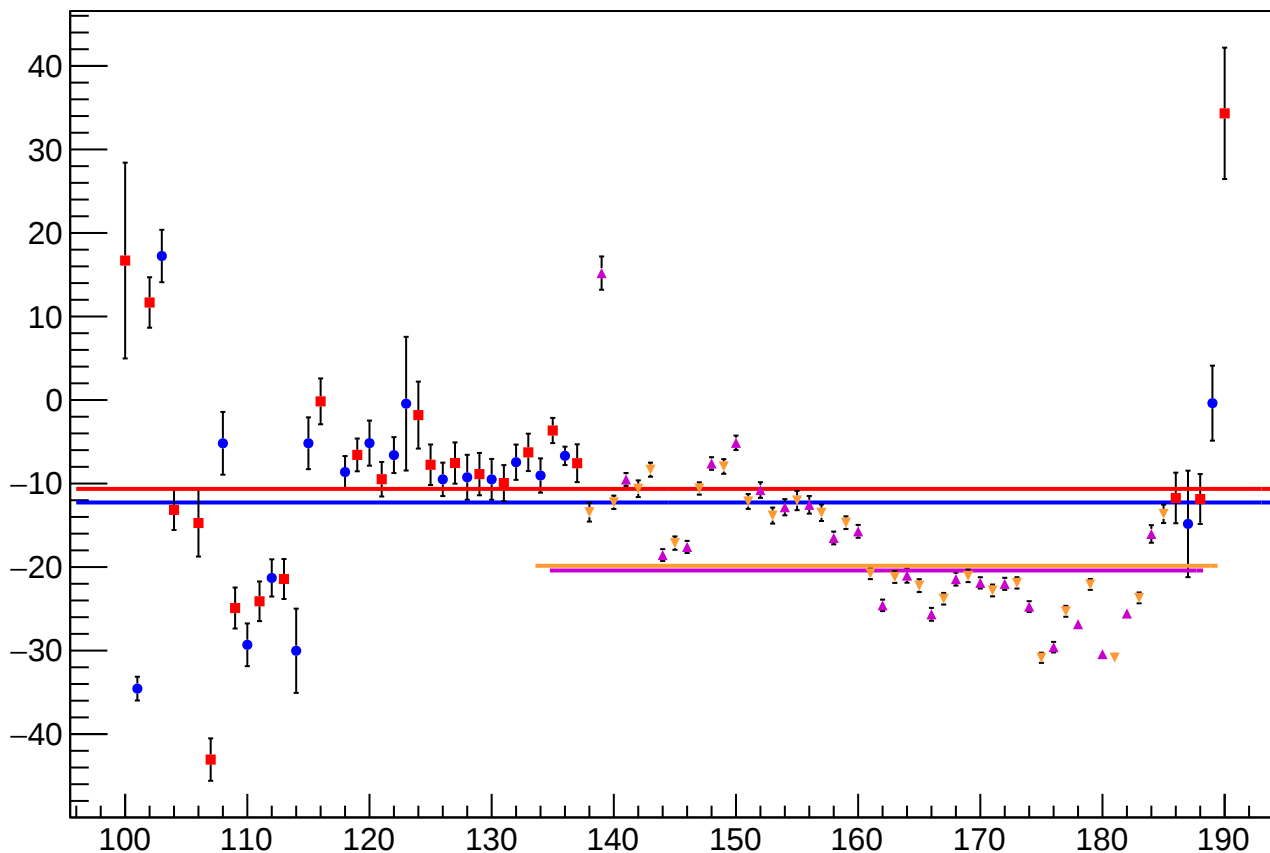
reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.741 ± 0.741 χ^2/NDF : 848.1/18
 Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24
 Right Out: -72.673 ± 0.607 χ^2/NDF : 2464.7/21
 Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47
 Right: -65.070 ± 0.469 χ^2/NDF : 3703.9/40
 In: -59.487 ± 0.169 χ^2/NDF : 6129.2/41
 Out: -60.728 ± 0.164 χ^2/NDF : 8720.6/46
 All: -60.126 ± 0.118 χ^2/NDF : 14877.6/88

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.268 ± 0.519 χ^2/NDF : 480.8/18

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -10.640 ± 0.535 χ^2/NDF : 399.0/21

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

Right: -11.480 ± 0.372 χ^2/NDF : 884.5/40

In: -19.729 ± 0.150 χ^2/NDF : 3008.7/41

Out: -19.154 ± 0.147 χ^2/NDF : 2603.7/46

All: -19.436 ± 0.105 χ^2/NDF : 5619.8/88

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.305 ± 0.027 χ^2/NDF : 372.0/18

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.427 ± 0.028 χ^2/NDF : 740.1/21

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

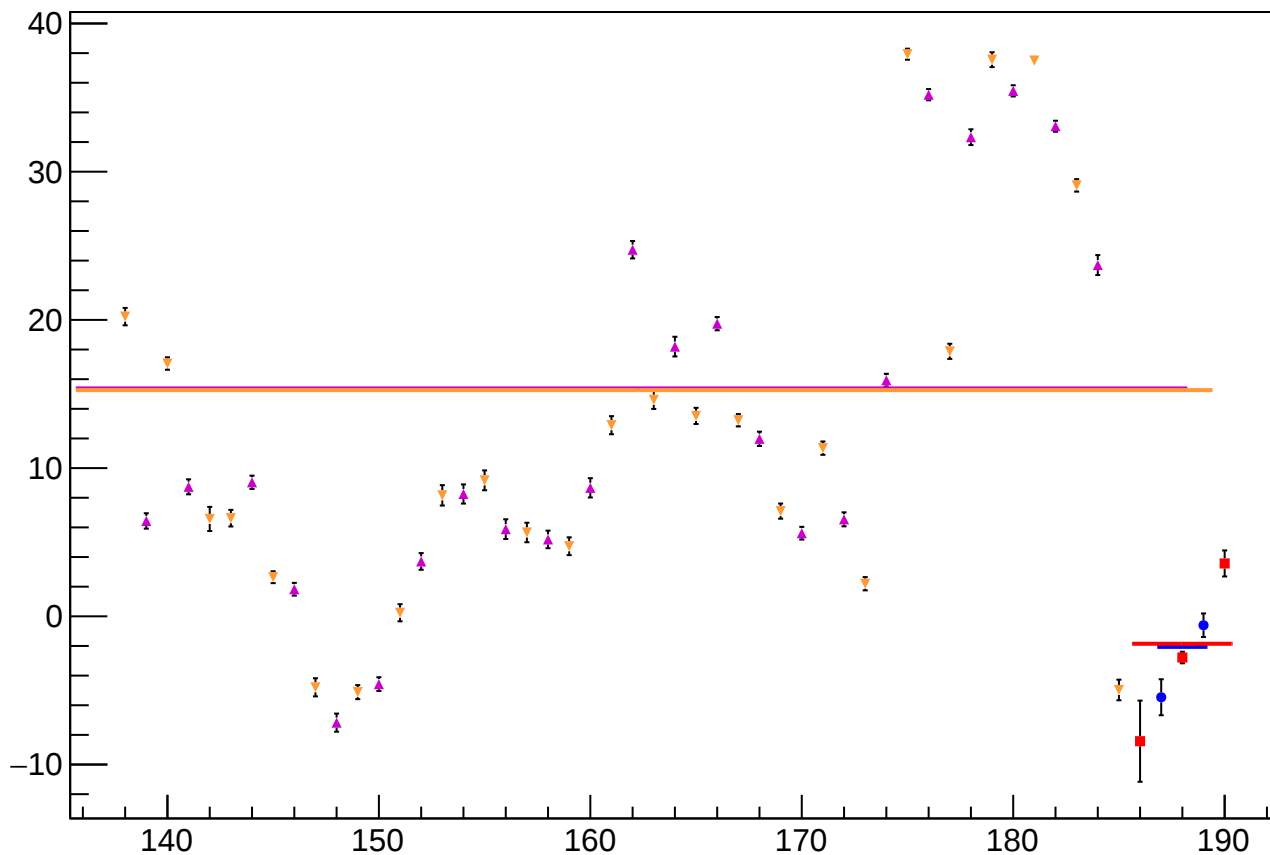
Right: -0.365 ± 0.019 χ^2/NDF : 1121.9/40

In: 0.208 ± 0.007 χ^2/NDF : 889.4/41

Out: 0.199 ± 0.007 χ^2/NDF : 1376.7/46

All: 0.203 ± 0.005 χ^2/NDF : 2267.0/88

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.062 ± 0.665 χ^2/NDF : 11.2/1

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: -1.851 ± 0.353 χ^2/NDF : 49.5/2

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

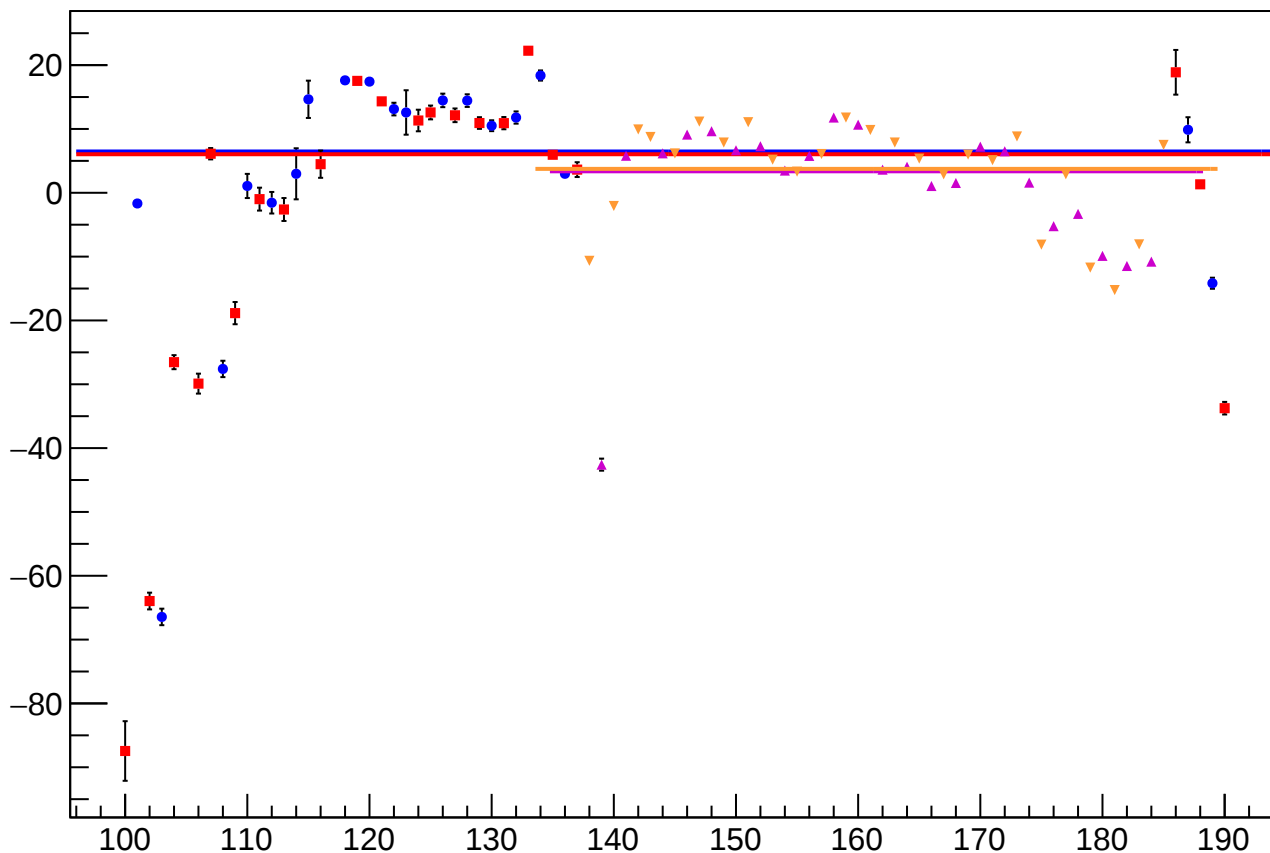
Right: -1.897 ± 0.312 χ^2/NDF : 60.8/4

In: 14.971 ± 0.102 χ^2/NDF : 16951.1/24

Out: 13.977 ± 0.097 χ^2/NDF : 21402.6/27

All: 14.449 ± 0.070 χ^2/NDF : 38403.9/52

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.469 ± 0.210 $\chi^2/\text{NDF}: 5904.5/18$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: 6.039 ± 0.196 $\chi^2/\text{NDF}: 8568.6/21$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

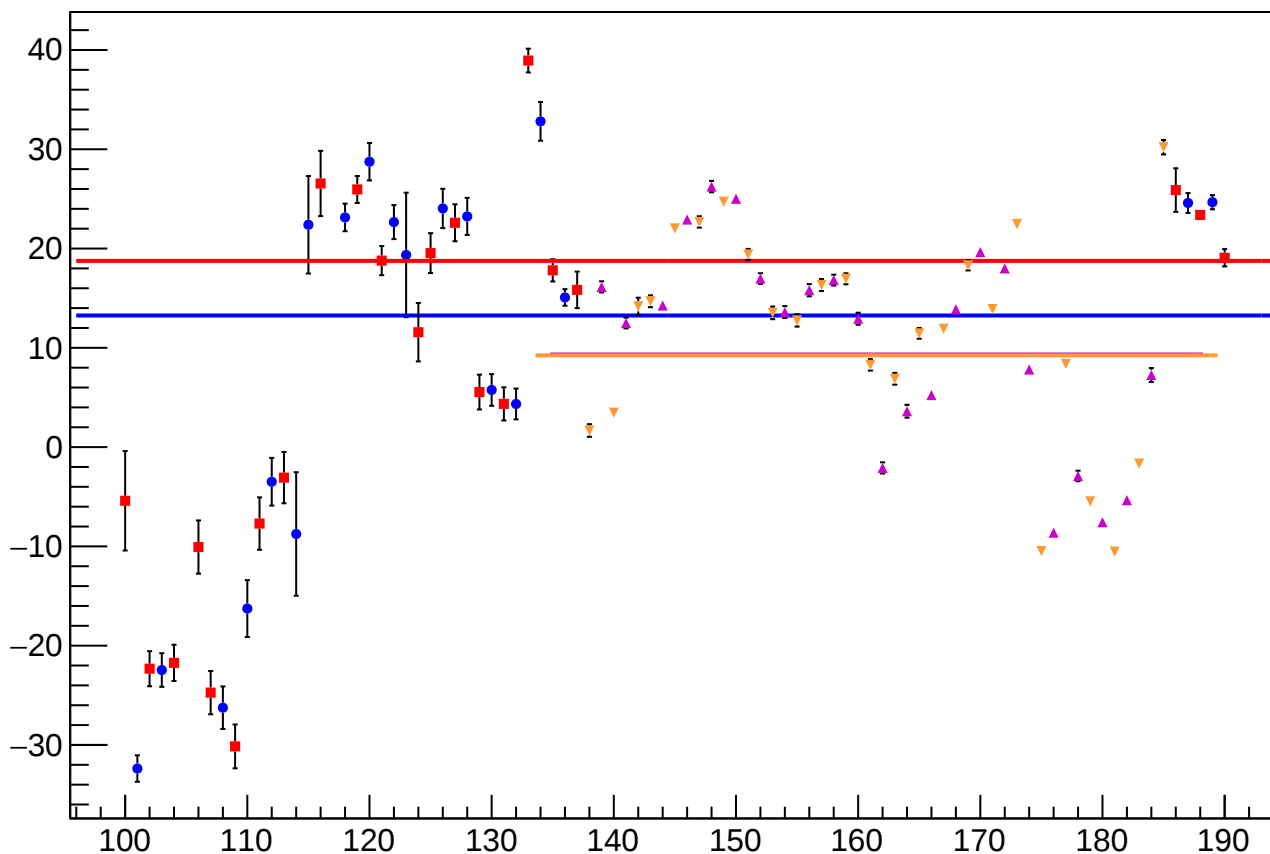
Right: 6.238 ± 0.143 $\chi^2/\text{NDF}: 14475.3/40$

In: 3.767 ± 0.076 $\chi^2/\text{NDF}: 14620.9/41$

Out: 4.065 ± 0.073 $\chi^2/\text{NDF}: 17934.1/46$

All: 3.922 ± 0.053 $\chi^2/\text{NDF}: 32563.0/88$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.257 $\pm$ 0.340 χ^2 /NDF: 2877.2/18

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.759 $\pm$ 0.240 χ^2 /NDF: 2917.6/21

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

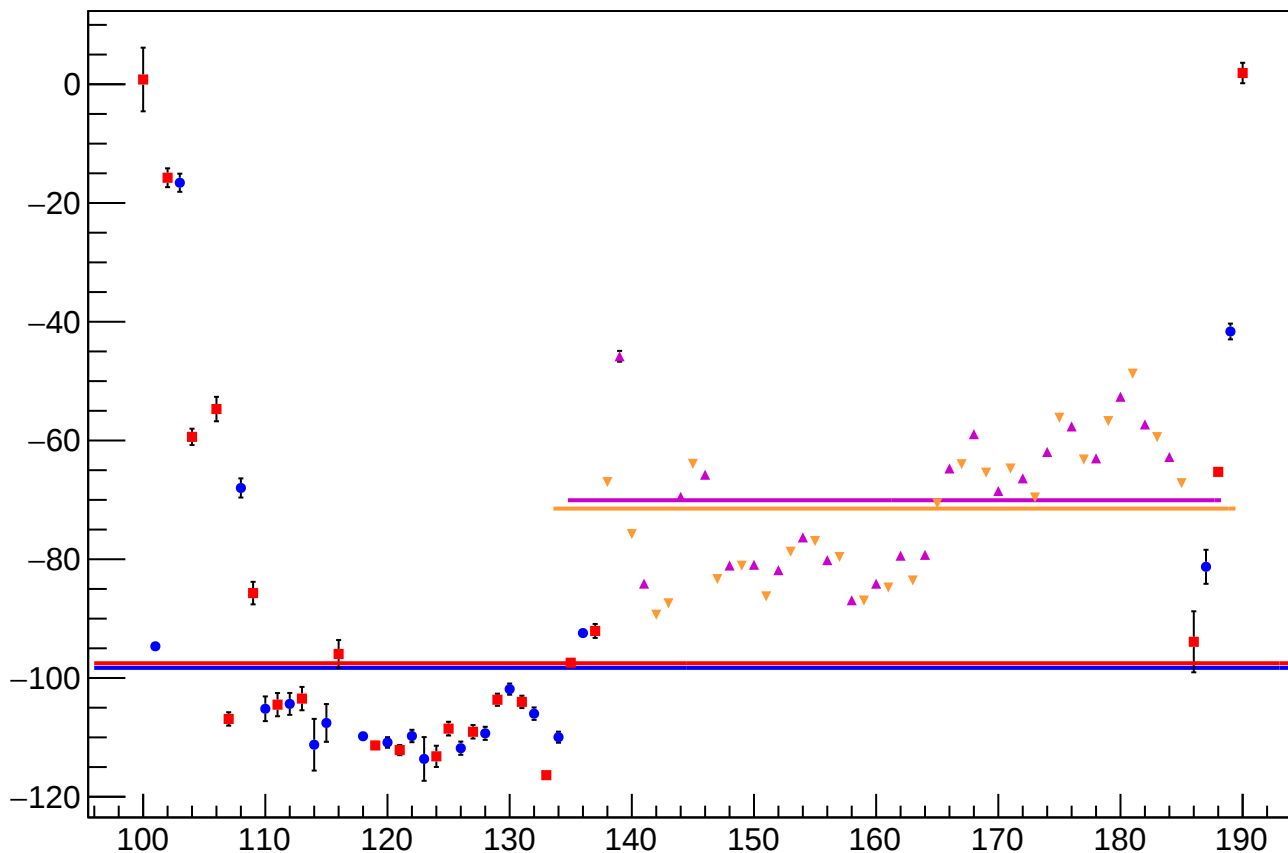
Right: 16.922 $\pm$ 0.196 χ^2 /NDF: 5969.5/40

In: 9.656 $\pm$ 0.098 χ^2 /NDF:14968.2/41

Out: 10.667 $\pm$ 0.093 χ^2 /NDF:17882.7/46

All: 10.189 $\pm$ 0.068 χ^2 /NDF: 32906.7/88

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -98.293 ± 0.246 $\chi^2/\text{NDF}: 6380.5/18$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -97.512 ± 0.234 $\chi^2/\text{NDF}: 11344.4/21$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

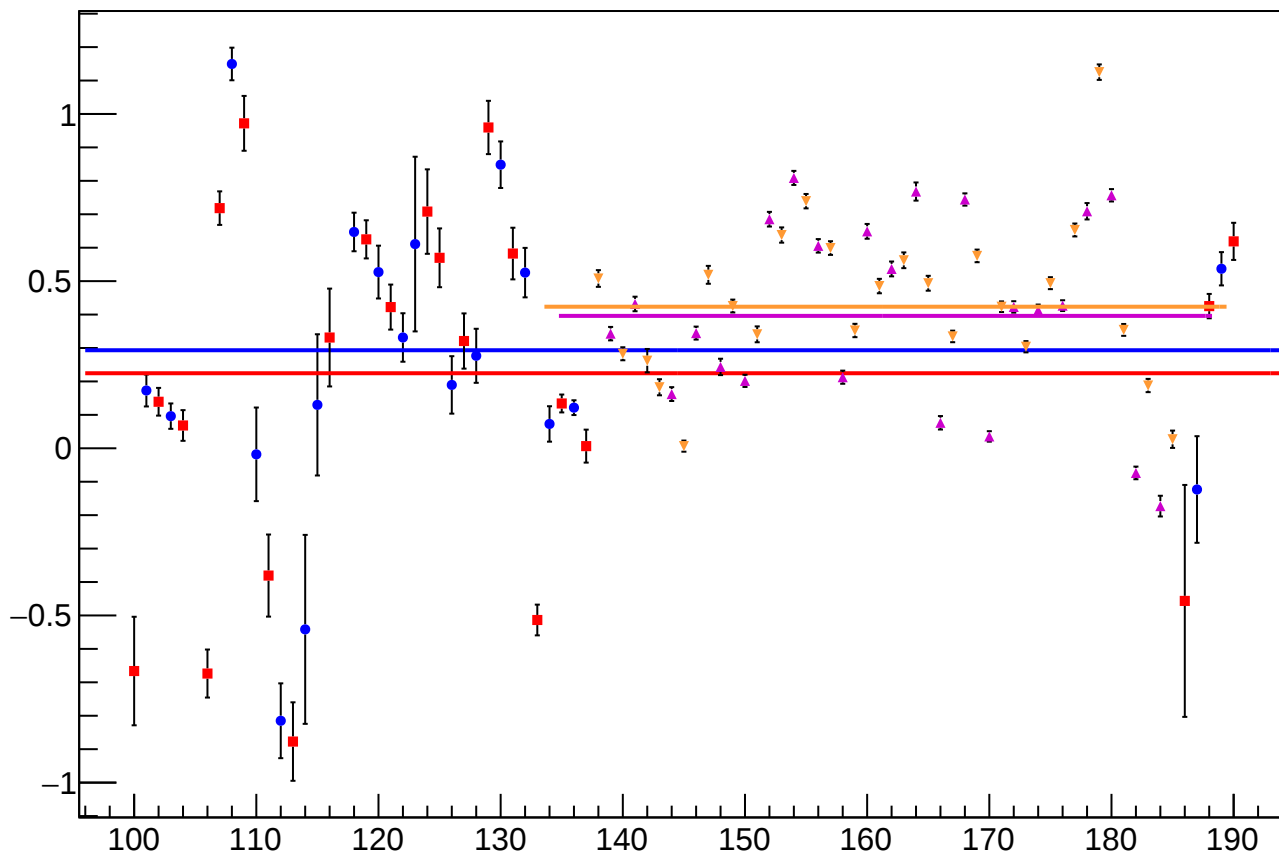
Right: -97.883 ± 0.169 $\chi^2/\text{NDF}: 17730.1/40$

In: -73.512 ± 0.086 $\chi^2/\text{NDF}: 31020.7/41$

Out: -74.777 ± 0.083 $\chi^2/\text{NDF}: 38574.5/46$

All: -74.163 ± 0.060 $\chi^2/\text{NDF}: 69706.7/88$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.293 ± 0.013 χ^2/NDF : 685.5/18

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.225 ± 0.012 χ^2/NDF : 1064.4/21

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

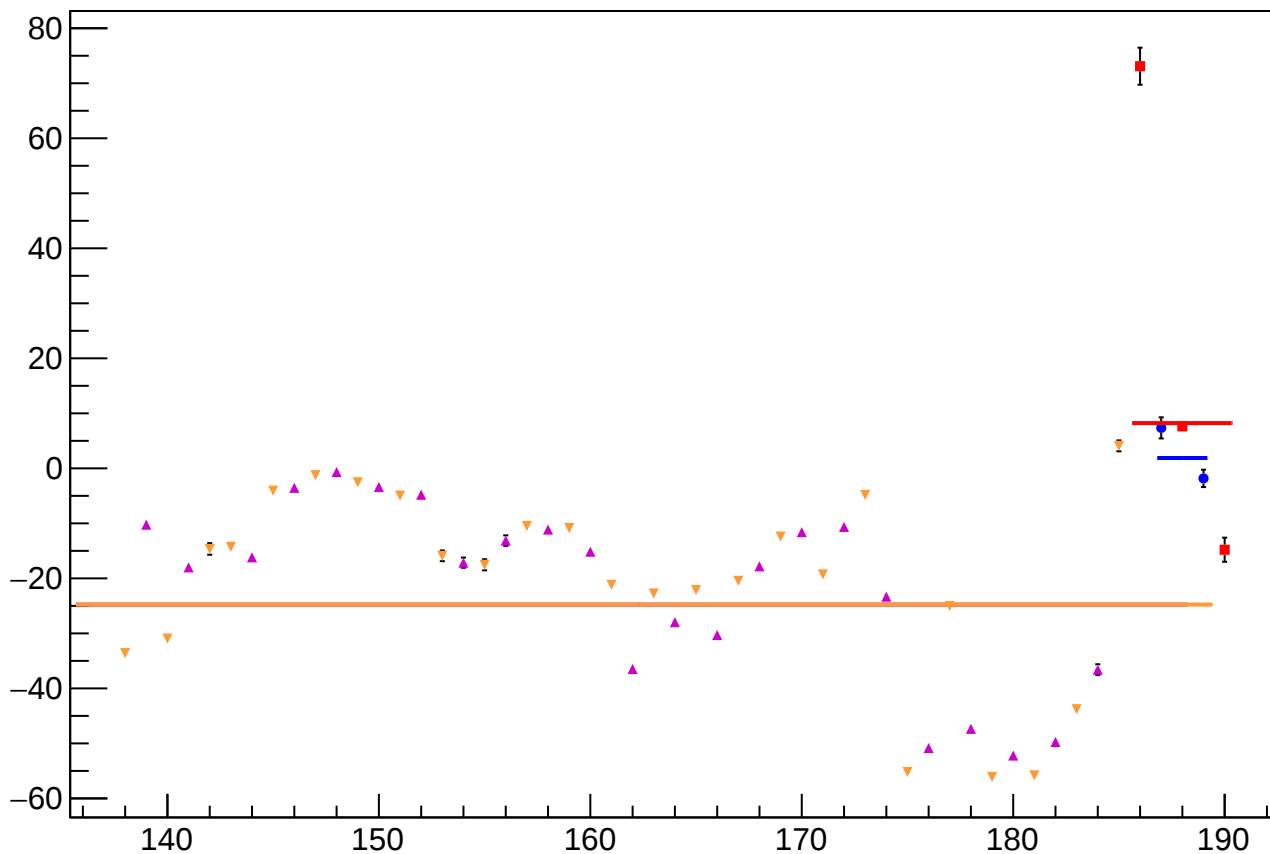
Right: 0.257 ± 0.009 χ^2/NDF : 1764.6/40

In: 0.387 ± 0.004 χ^2/NDF : 4793.6/41

Out: 0.404 ± 0.004 χ^2/NDF : 4184.0/46

All: 0.395 ± 0.003 χ^2/NDF : 8987.2/88

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.881+/-1.220 χ^2/NDF : 13.6/1

Left Out: -24.769+/-0.139 χ^2/NDF :18318.8/24

Right Out: 8.228+/-0.734 χ^2/NDF : 481.6/2

Left In: -24.775+/-0.143 χ^2/NDF :14807.4/22

Left: -24.772+/-0.100 χ^2/NDF : 33126.2/47

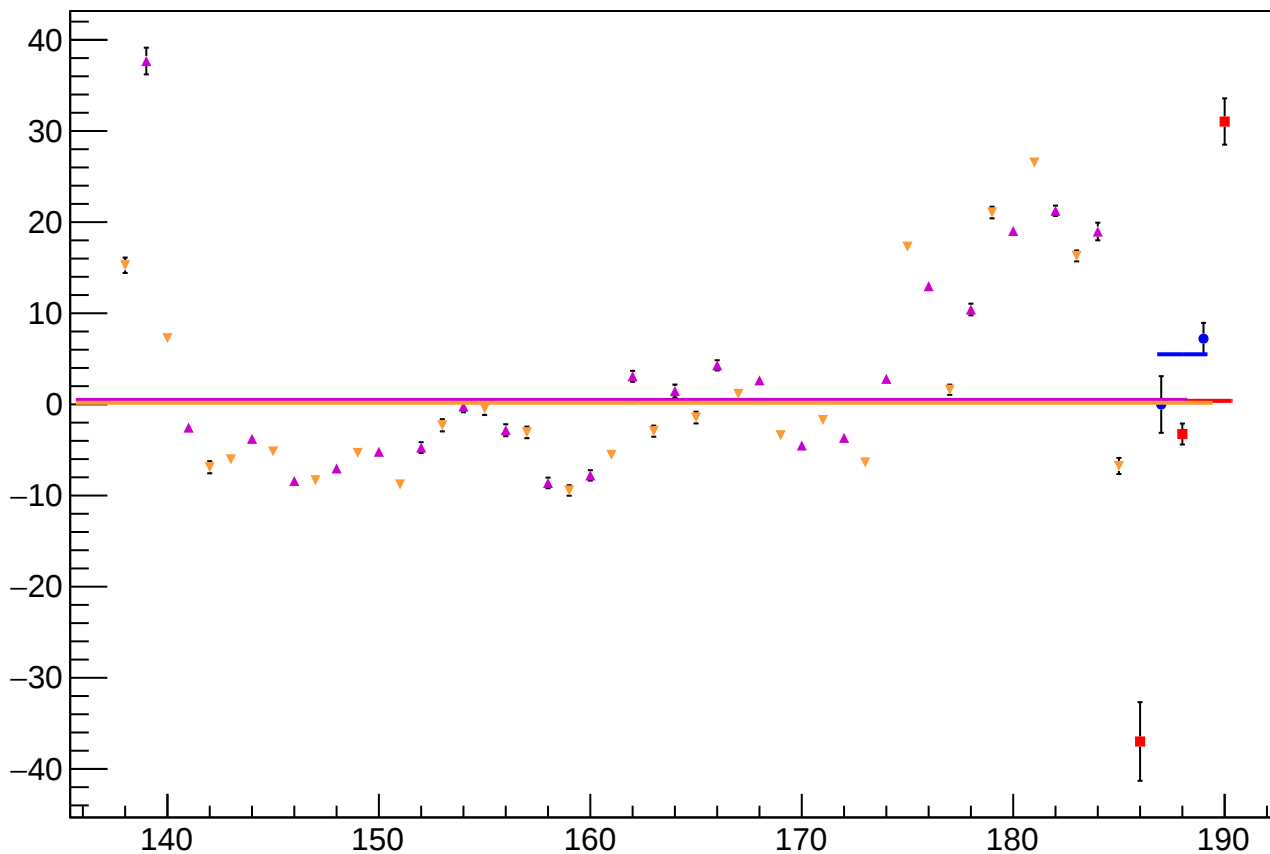
Right: 6.541+/-0.629 χ^2/NDF : 515.1/4

In: -24.415+/-0.142 χ^2/NDF :15292.0/24

Out: -23.620+/-0.137 χ^2/NDF :20750.7/27

All: -24.004+/-0.099 χ^2/NDF : 36058.9/52

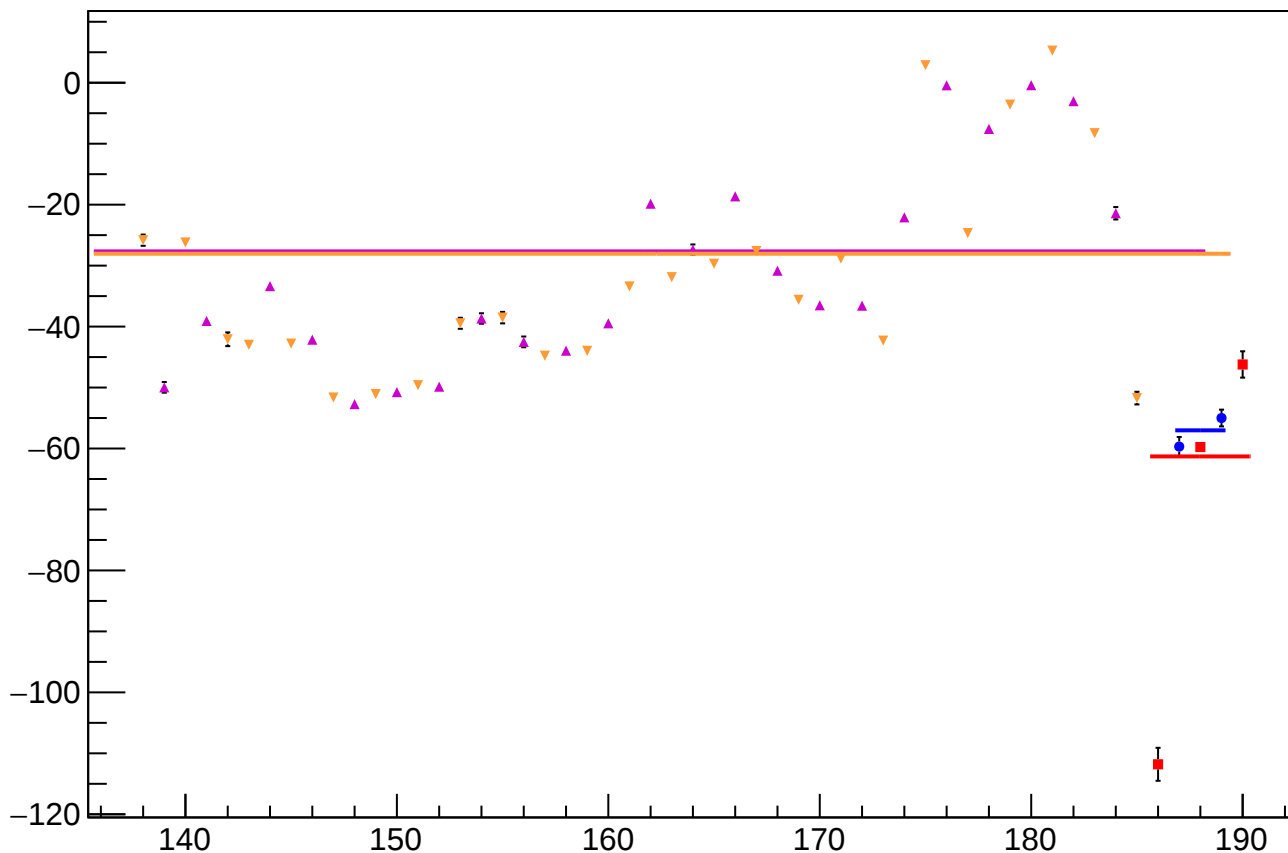
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.500+/-1.513 χ^2/NDF : 4.1/1
 Left Out: 0.177+/-0.109 χ^2/NDF :8295.6/24
 Right Out: 0.392+/-1.020 χ^2/NDF : 230.6/2
 Left In: 0.493+/-0.112 χ^2/NDF :6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47
 Right: 1.987+/-0.846 χ^2/NDF : 242.6/4
 In: 0.521+/-0.112 χ^2/NDF :6570.4/24
 Out: 0.180+/-0.108 χ^2/NDF :8526.3/27
 All: 0.344+/-0.078 χ^2/NDF : 15101.4/52

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.020 ± 1.037 $\chi^2/\text{NDF}: 5.0/1$

Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$

Right Out: -61.297 ± 0.605 $\chi^2/\text{NDF}: 402.8/2$

Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$

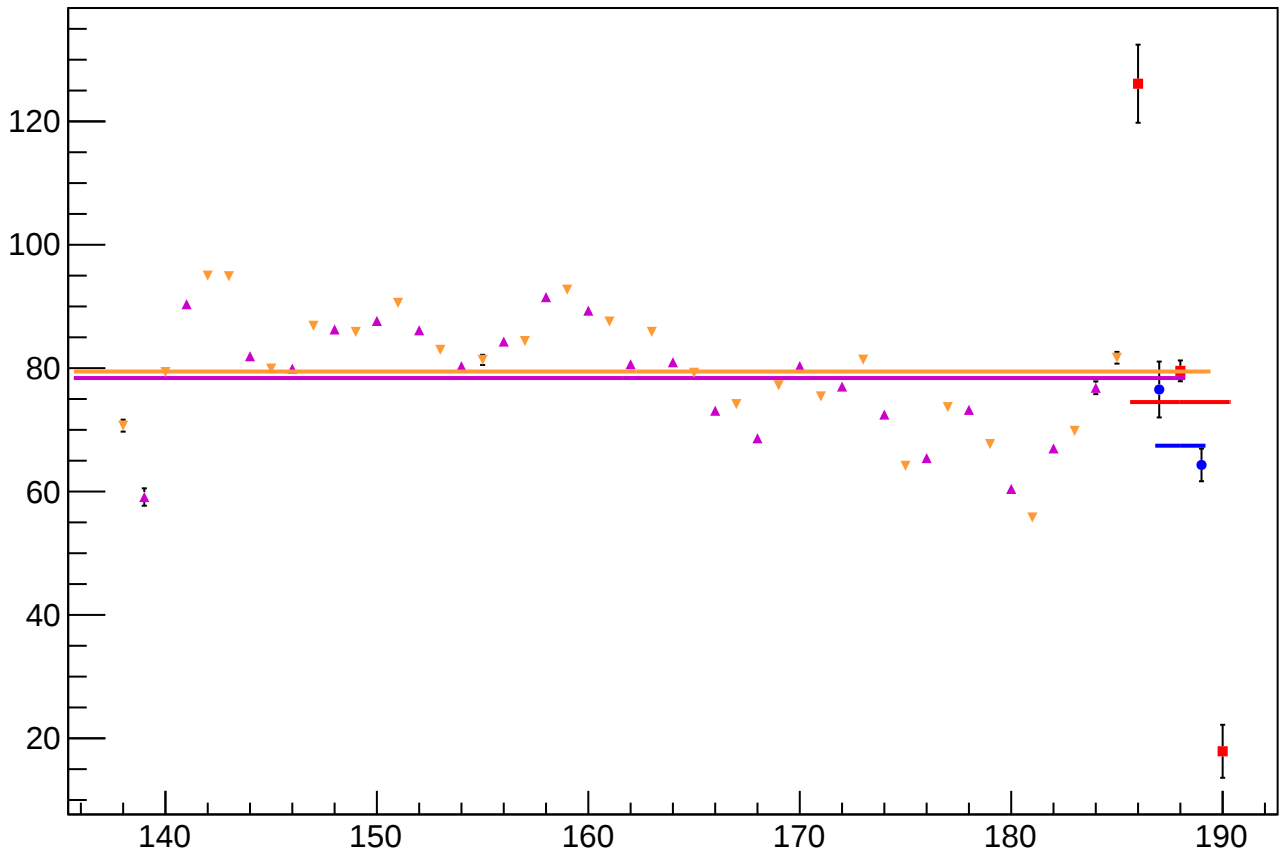
Right: -60.212 ± 0.522 $\chi^2/\text{NDF}: 420.5/4$

In: -28.210 ± 0.141 $\chi^2/\text{NDF}: 15794.2/24$

Out: -29.739 ± 0.136 $\chi^2/\text{NDF}: 20418.0/27$

All: -29.001 ± 0.098 $\chi^2/\text{NDF}: 36273.0/52$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 67.432 $\pm$ 2.287 χ^2 /NDF: 5.4/1

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 74.505 $\pm$ 1.524 χ^2 /NDF: 249.1/2

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

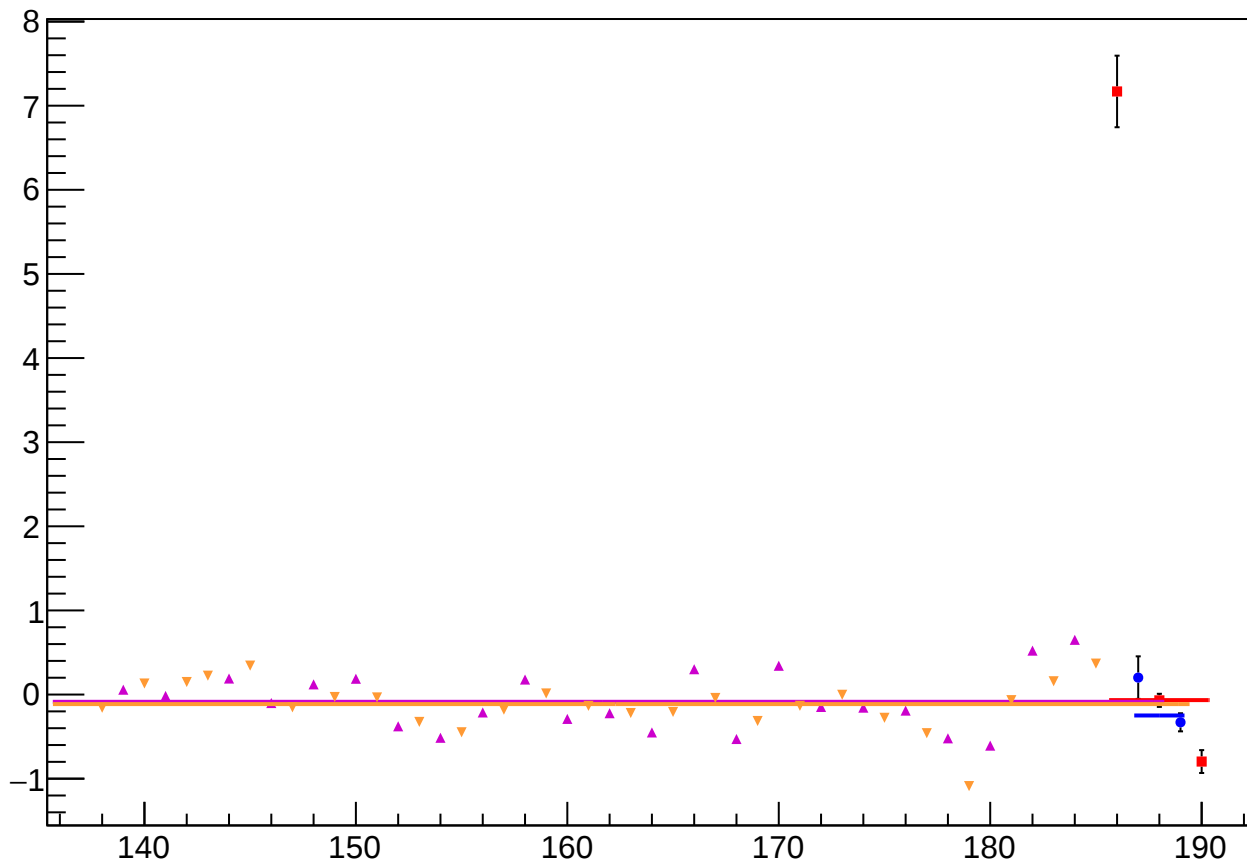
Right: 72.331 $\pm$ 1.268 χ^2 /NDF: 261.1/4

In: 78.363 $\pm$ 0.127 χ^2 /NDF: 4735.7/24

Out: 79.424 $\pm$ 0.123 χ^2 /NDF: 6336.7/27

All: 78.909 $\pm$ 0.088 χ^2 /NDF: 11108.6/52

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.249 ± 0.099 χ^2/NDF : 3.7/1

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -0.066 ± 0.067 χ^2/NDF : 318.1/2

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

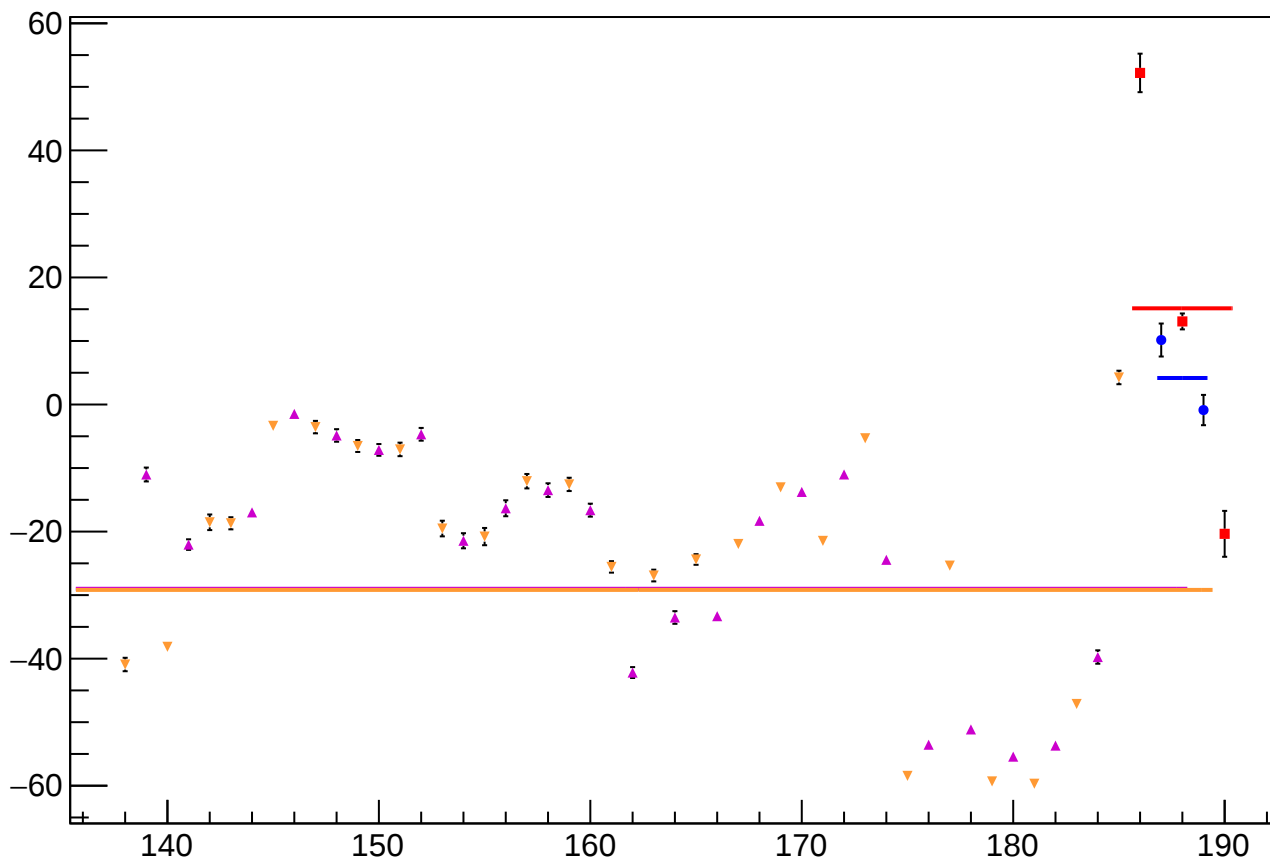
Right: -0.123 ± 0.055 χ^2/NDF : 324.2/4

In: -0.087 ± 0.006 χ^2/NDF : 3138.5/24

Out: -0.113 ± 0.006 χ^2/NDF : 2621.7/27

All: -0.100 ± 0.004 χ^2/NDF : 5770.8/52

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.175 ± 1.756 $\chi^2/\text{NDF}: 9.8/1$

Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$

Right Out: 15.140 ± 1.102 $\chi^2/\text{NDF}: 248.8/2$

Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$

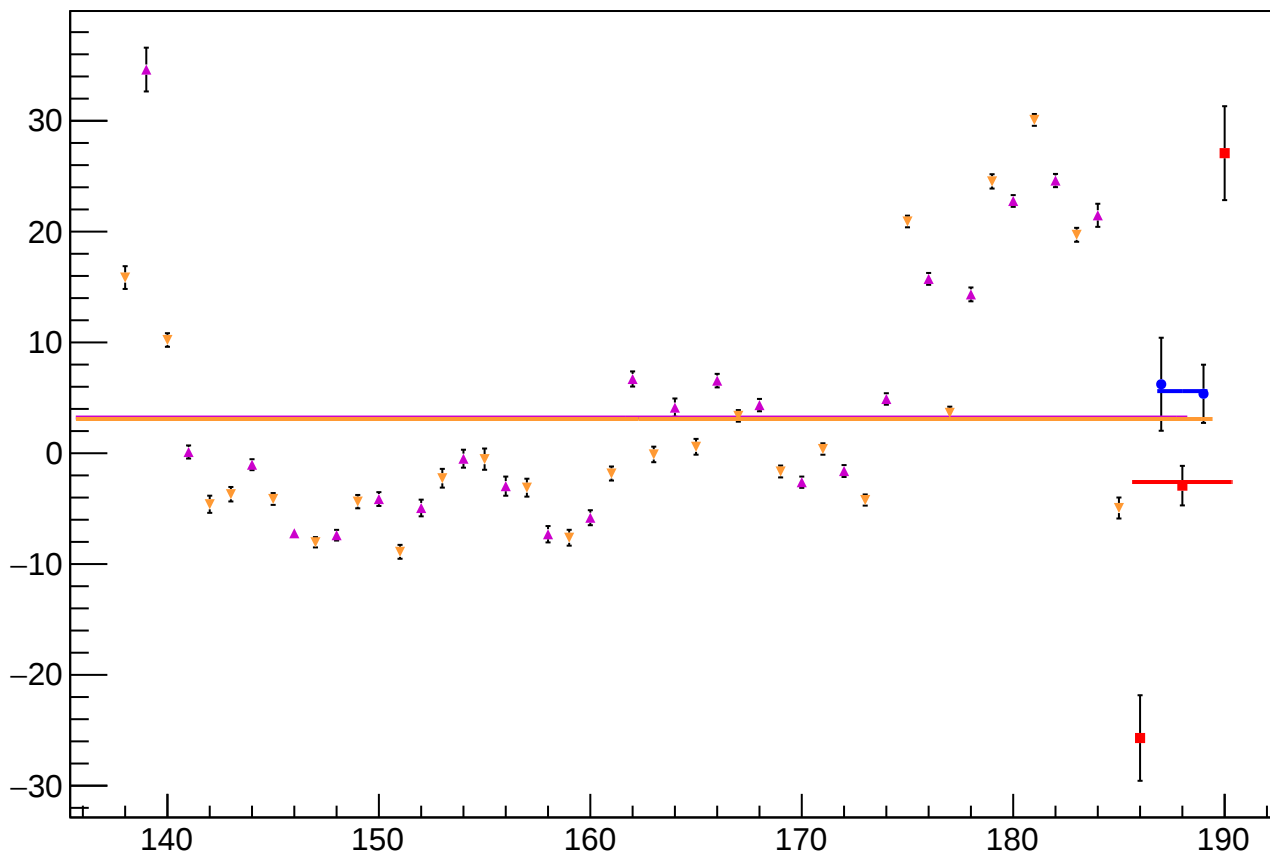
Right: 12.043 ± 0.934 $\chi^2/\text{NDF}: 286.5/4$

In: -28.730 ± 0.159 $\chi^2/\text{NDF}: 13780.4/24$

Out: -28.301 ± 0.155 $\chi^2/\text{NDF}: 18746.1/27$

All: -28.510 ± 0.111 $\chi^2/\text{NDF}: 32530.3/52$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.607 $\pm$ 2.227 χ^2 /NDF: 0.0/1

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: -2.596 $\pm$ 1.513 χ^2 /NDF: 84.9/2

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF:6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

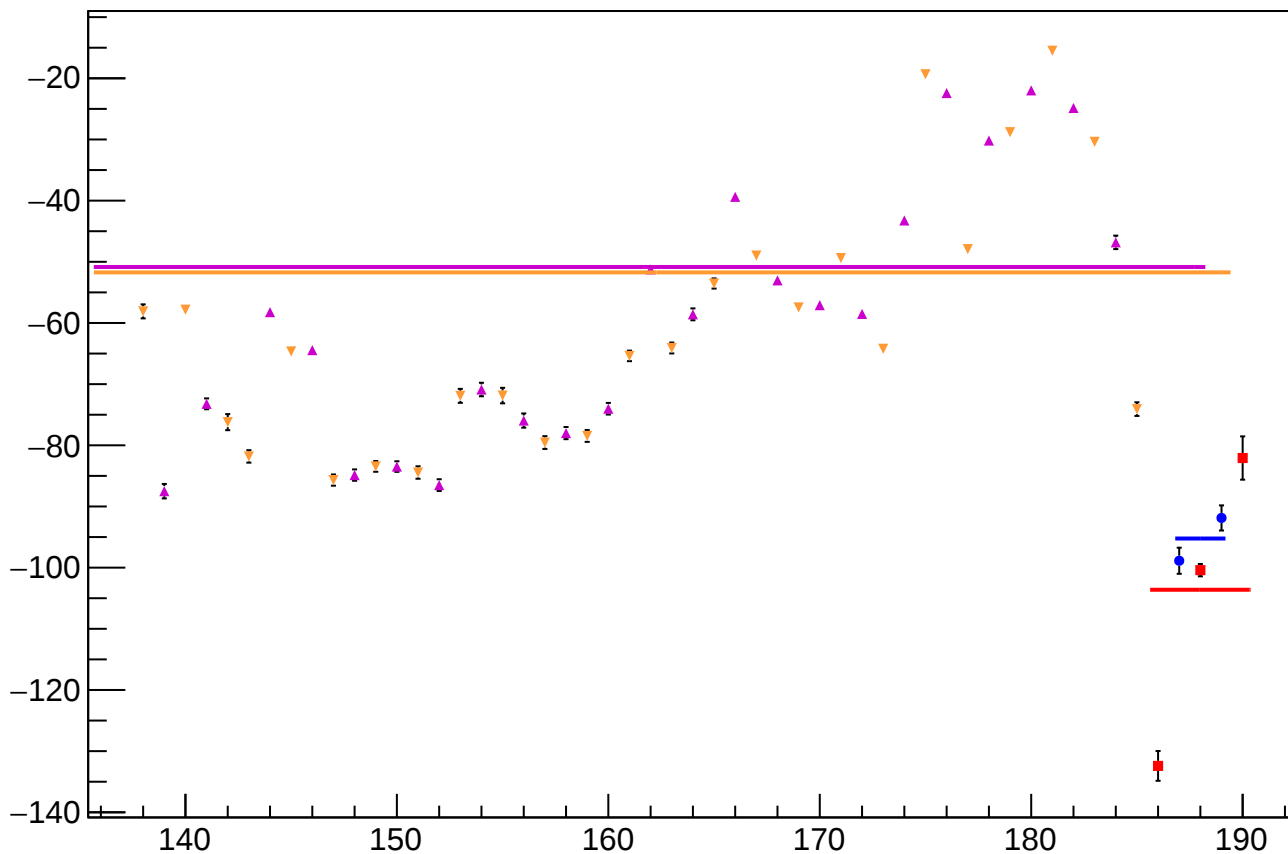
Right: -0.004 $\pm$ 1.252 χ^2 /NDF: 94.2/4

In: 3.229 $\pm$ 0.127 χ^2 /NDF:6238.8/24

Out: 3.052 $\pm$ 0.124 χ^2 /NDF:8183.0/27

All: 3.139 $\pm$ 0.089 χ^2 /NDF: 14422.8/52

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -95.239 ± 1.479 χ^2/NDF : 5.6/1

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -103.615 ± 0.903 χ^2/NDF : 187.0/2

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

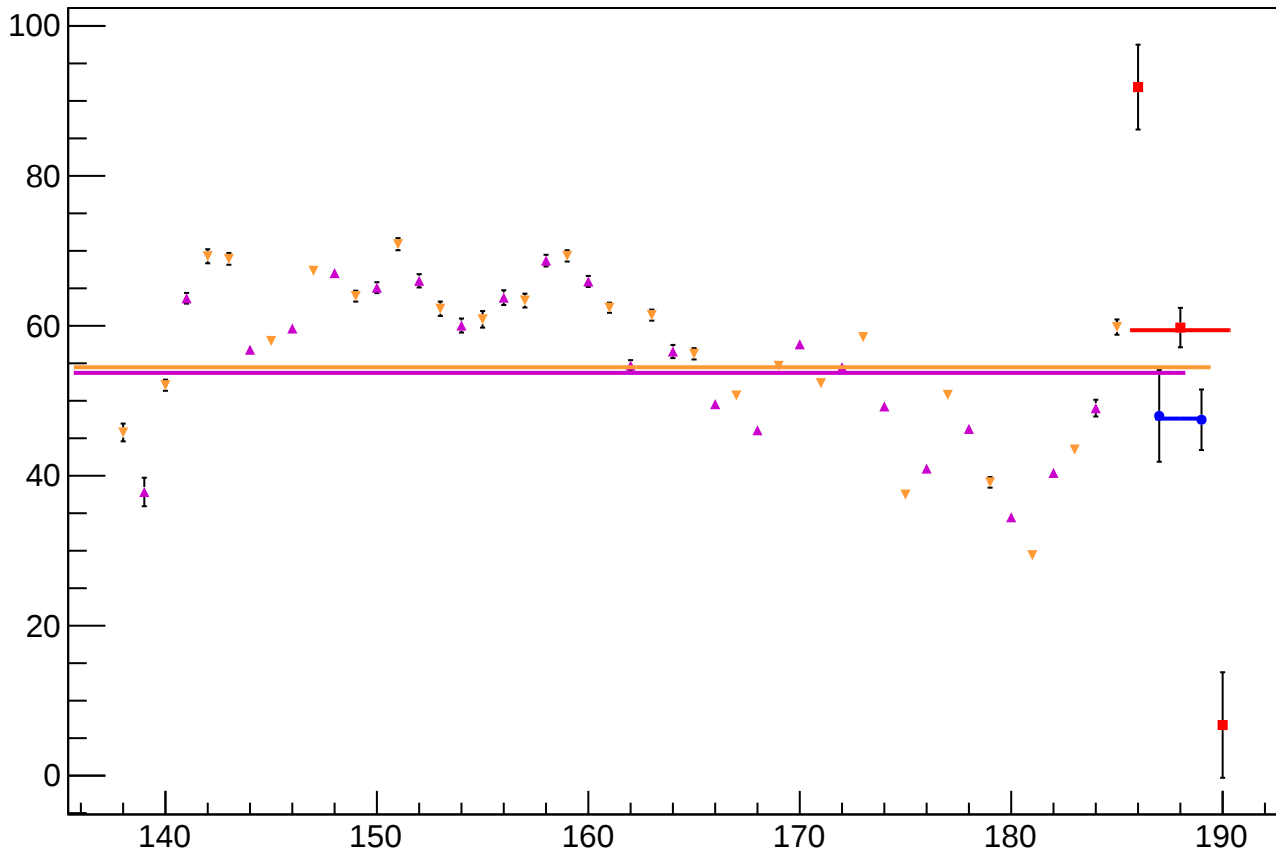
Right: -101.343 ± 0.771 χ^2/NDF : 215.9/4

In: -51.358 ± 0.159 χ^2/NDF : 18167.6/24

Out: -53.269 ± 0.156 χ^2/NDF : 22931.0/27

All: -52.336 ± 0.111 χ^2/NDF : 41172.4/52

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.626 $\pm$ 3.372 χ^2 /NDF: 0.0/1

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 59.416 $\pm$ 2.260 χ^2 /NDF: 88.8/2

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

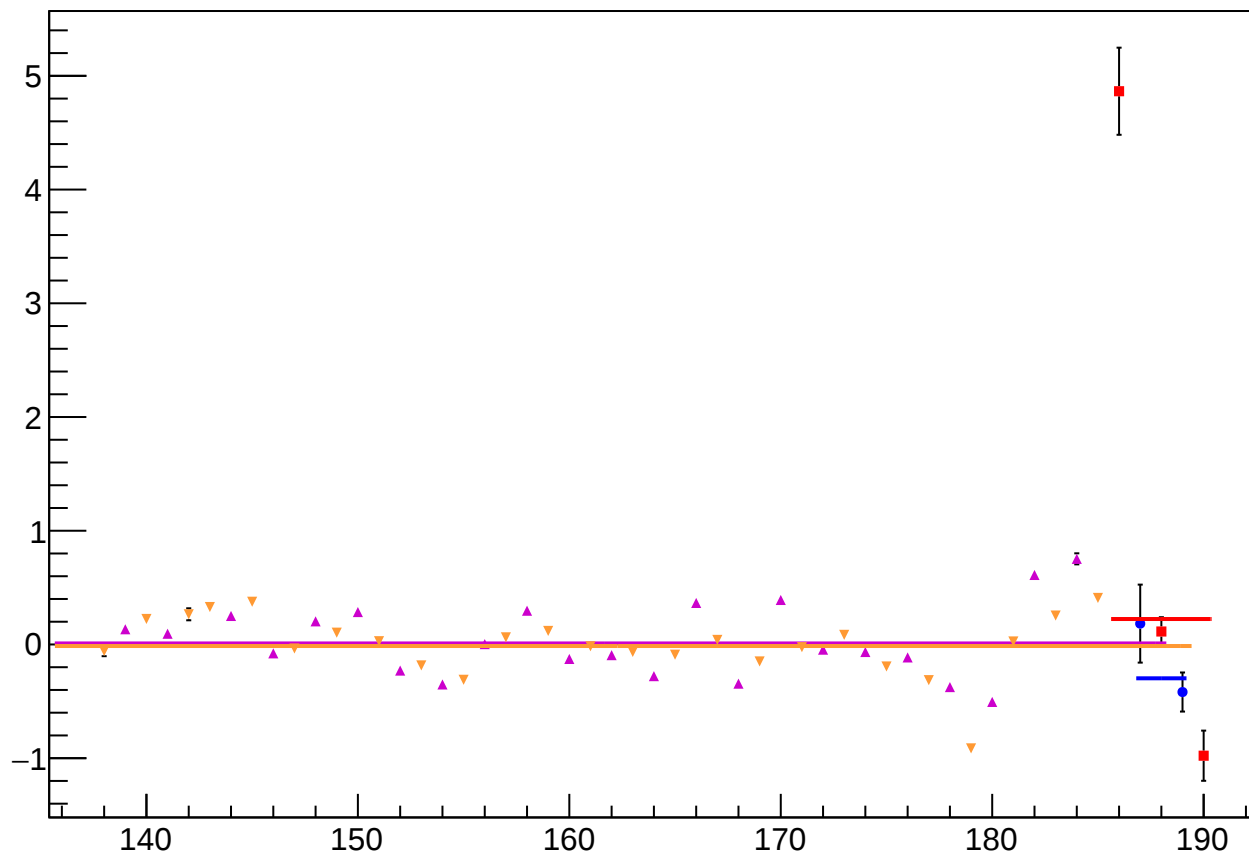
Right: 55.761 $\pm$ 1.877 χ^2 /NDF: 97.3/4

In: 53.713 $\pm$ 0.143 χ^2 /NDF:4589.0/24

Out: 54.495 $\pm$ 0.140 χ^2 /NDF:6360.5/27

All: 54.112 $\pm$ 0.100 χ^2 /NDF: 10964.8/52

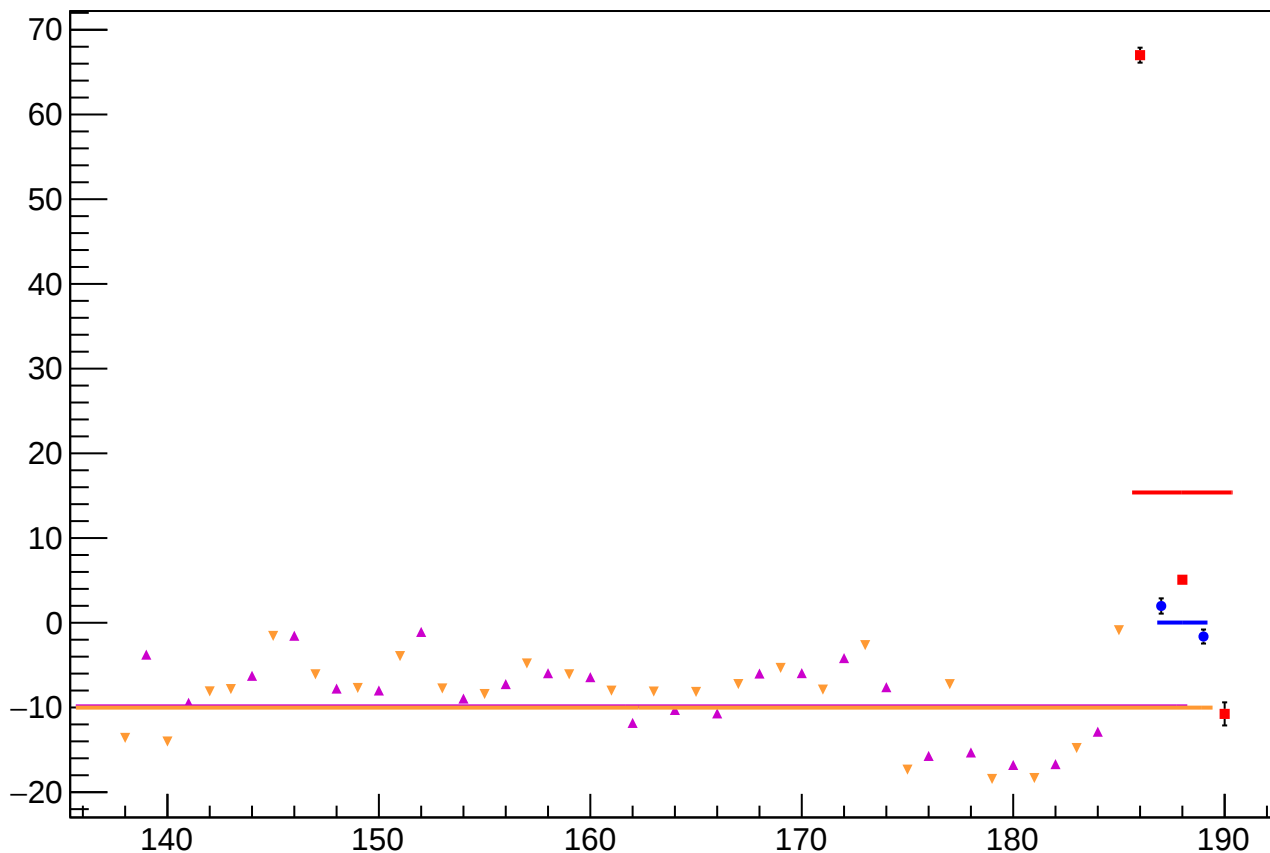
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.298 ± 0.154 $\chi^2/\text{NDF}: 2.5/1$
 Left Out: -0.014 ± 0.006 $\chi^2/\text{NDF}: 1654.7/24$
 Right Out: 0.224 ± 0.105 $\chi^2/\text{NDF}: 177.2/2$
 Left In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2220.5/22$

Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$
 Right: 0.058 ± 0.087 $\chi^2/\text{NDF}: 187.6/4$
 In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2227.0/24$
 Out: -0.013 ± 0.006 $\chi^2/\text{NDF}: 1837.1/27$
 All: -0.002 ± 0.005 $\chi^2/\text{NDF}: 4069.4/52$

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.025+/-0.610 χ^2/NDF : 8.7/1

Left Out: -10.017+/-0.051 χ^2/NDF :12552.8/24

Right Out: 15.380+/-0.382 χ^2/NDF : 4305.6/2

Left In: -9.865+/-0.051 χ^2/NDF :9345.4/22

Left: -9.942+/-0.036 χ^2/NDF : 21902.5/47

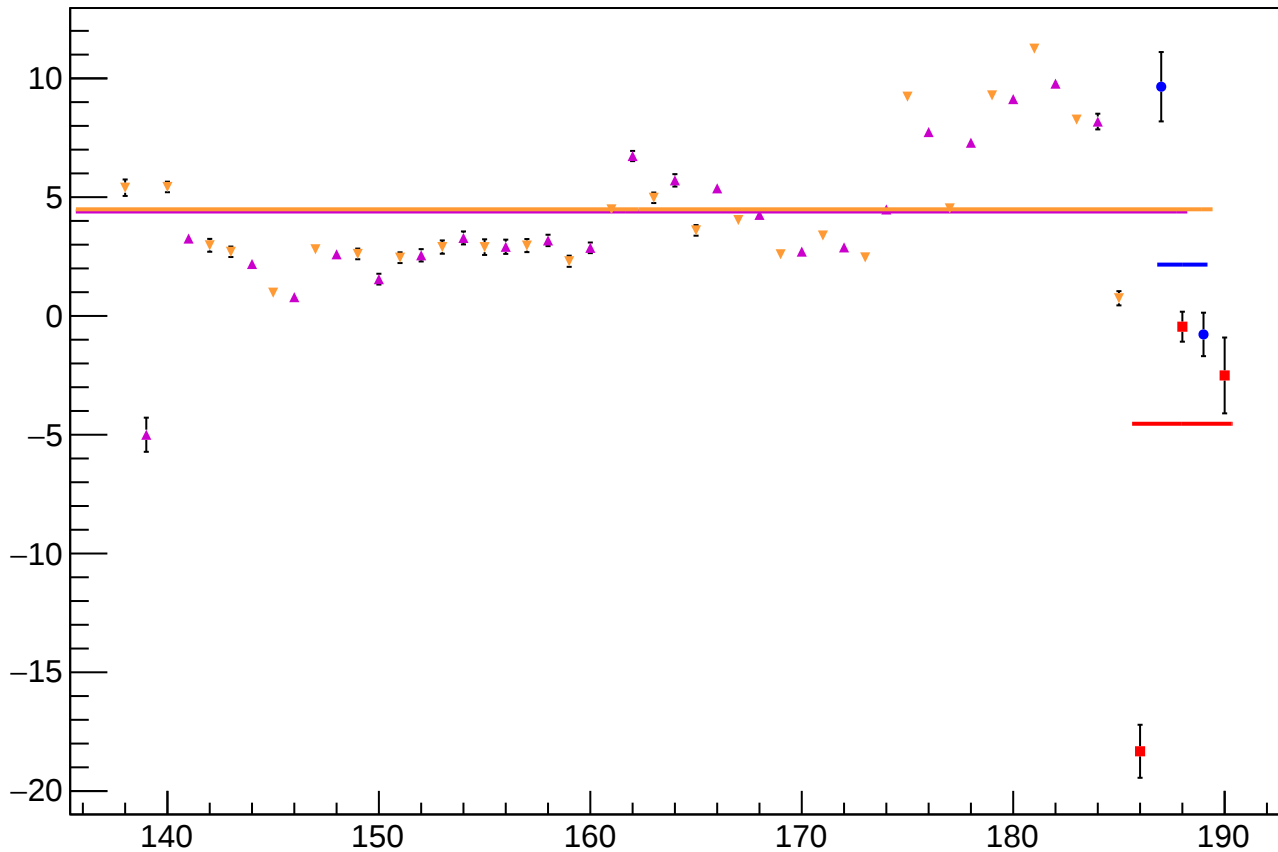
Right: 11.054+/-0.324 χ^2/NDF : 4769.3/4

In: -9.796+/-0.051 χ^2/NDF :9615.0/24

Out: -9.578+/-0.050 χ^2/NDF :21200.9/27

All: -9.685+/-0.036 χ^2/NDF : 30825.1/52

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.161+/-0.775 χ^2/NDF : 36.6/1

Left Out: 4.489+/-0.041 χ^2/NDF : 4832.3/24

Right Out: -4.538+/-0.519 χ^2/NDF : 196.2/2

Left In: 4.396+/-0.041 χ^2/NDF : 4230.4/22

Left: 4.443+/-0.029 χ^2/NDF : 9065.3/47

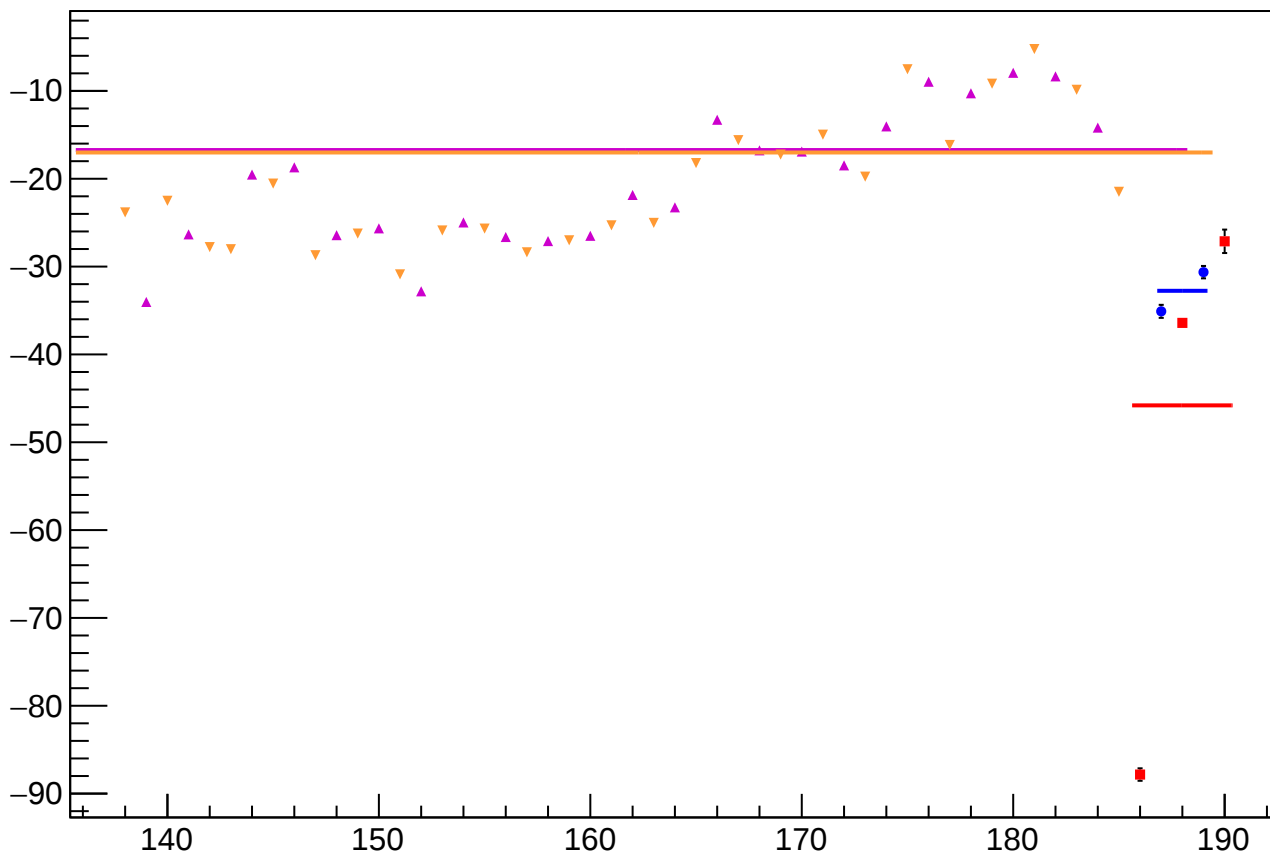
Right: -2.463+/-0.431 χ^2/NDF : 284.3/4

In: 4.390+/-0.041 χ^2/NDF : 4275.3/24

Out: 4.434+/-0.041 χ^2/NDF : 5328.8/27

All: 4.412+/-0.029 χ^2/NDF : 9604.7/52

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -32.758 ± 0.511 $\chi^2/\text{NDF}: 19.0/1$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -45.802 ± 0.312 $\chi^2/\text{NDF}: 4374.0/2$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

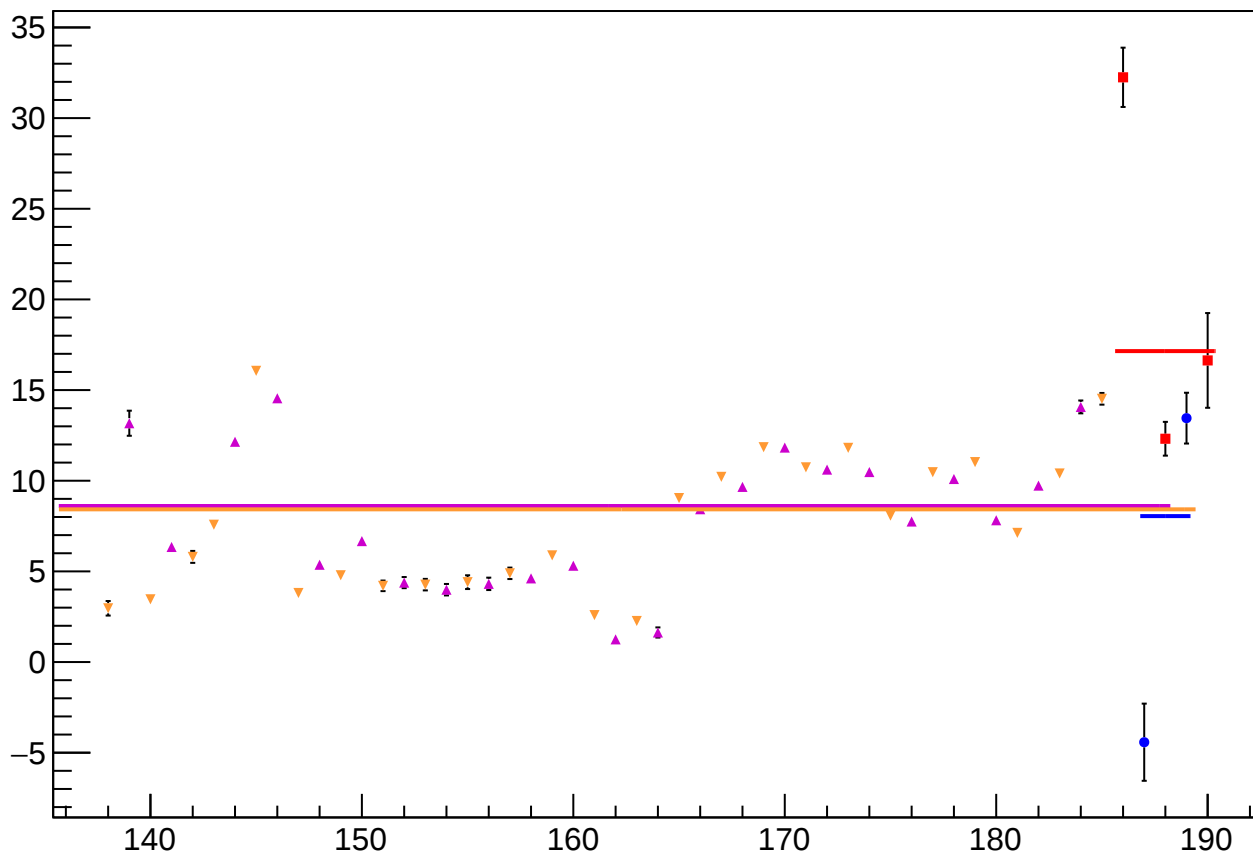
Right: -42.265 ± 0.266 $\chi^2/\text{NDF}: 4867.1/4$

In: -16.893 ± 0.051 $\chi^2/\text{NDF}: 19768.3/24$

Out: -17.760 ± 0.050 $\chi^2/\text{NDF}: 34767.1/27$

All: -17.334 ± 0.036 $\chi^2/\text{NDF}: 54680.9/52$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.049+/-1.170 χ^2/NDF : 49.2/1

Left Out: 8.422+/-0.046 χ^2/NDF : 6470.1/24

Right Out: 17.150+/-0.773 χ^2/NDF : 112.2/2

Left In: 8.606+/-0.046 χ^2/NDF : 5504.2/22

Left: 8.513+/-0.032 χ^2/NDF : 11982.4/47

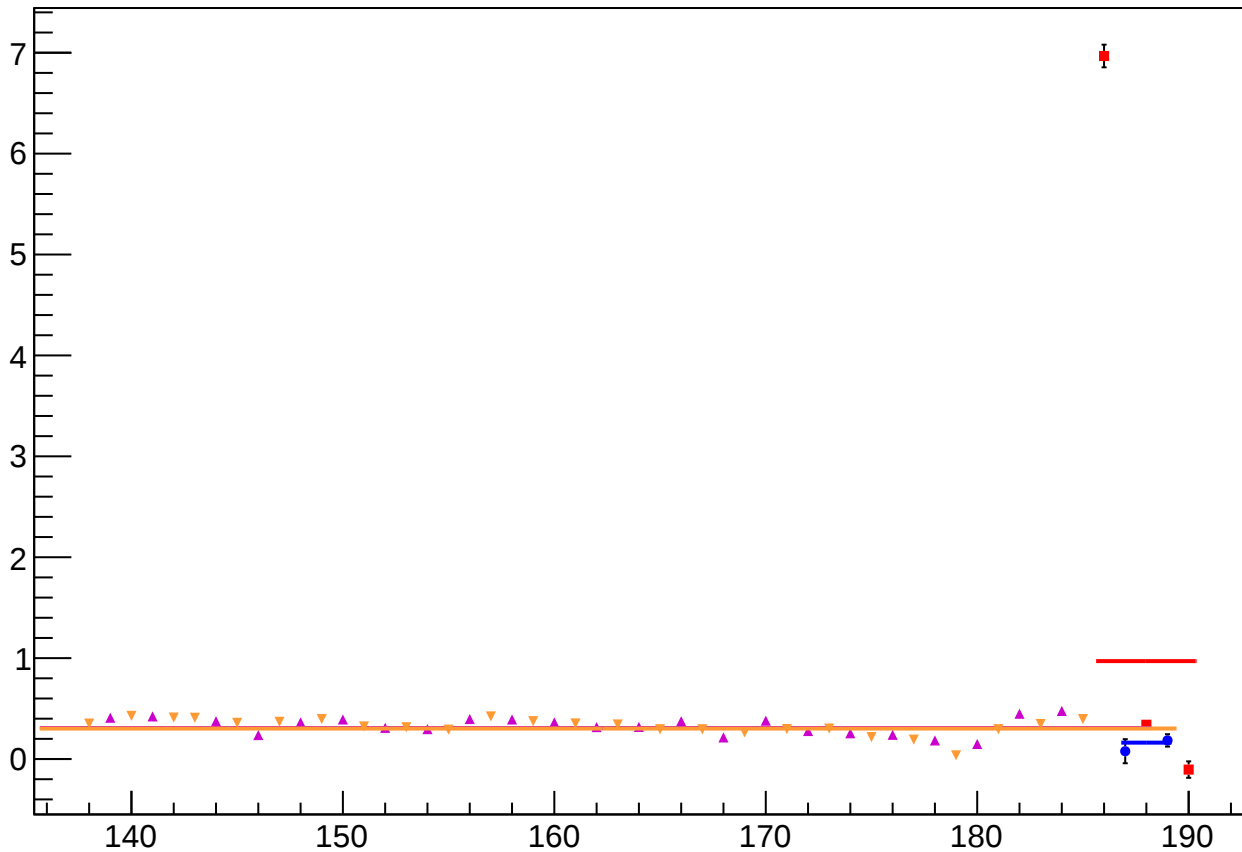
Right: 14.384+/-0.645 χ^2/NDF : 203.6/4

In: 8.605+/-0.046 χ^2/NDF : 5553.7/24

Out: 8.452+/-0.045 χ^2/NDF : 6709.4/27

All: 8.528+/-0.032 χ^2/NDF : 12268.6/52

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.054 χ^2 /NDF: 0.6/1

Left Out: 0.302 $\pm$ 0.002 χ^2 /NDF:1590.9/24

Right Out: 0.971 $\pm$ 0.037 χ^2 /NDF: 3230.1/2

Left In: 0.307 $\pm$ 0.002 χ^2 /NDF:1699.5/22

Left: 0.305 $\pm$ 0.001 χ^2 /NDF: 3293.0/47

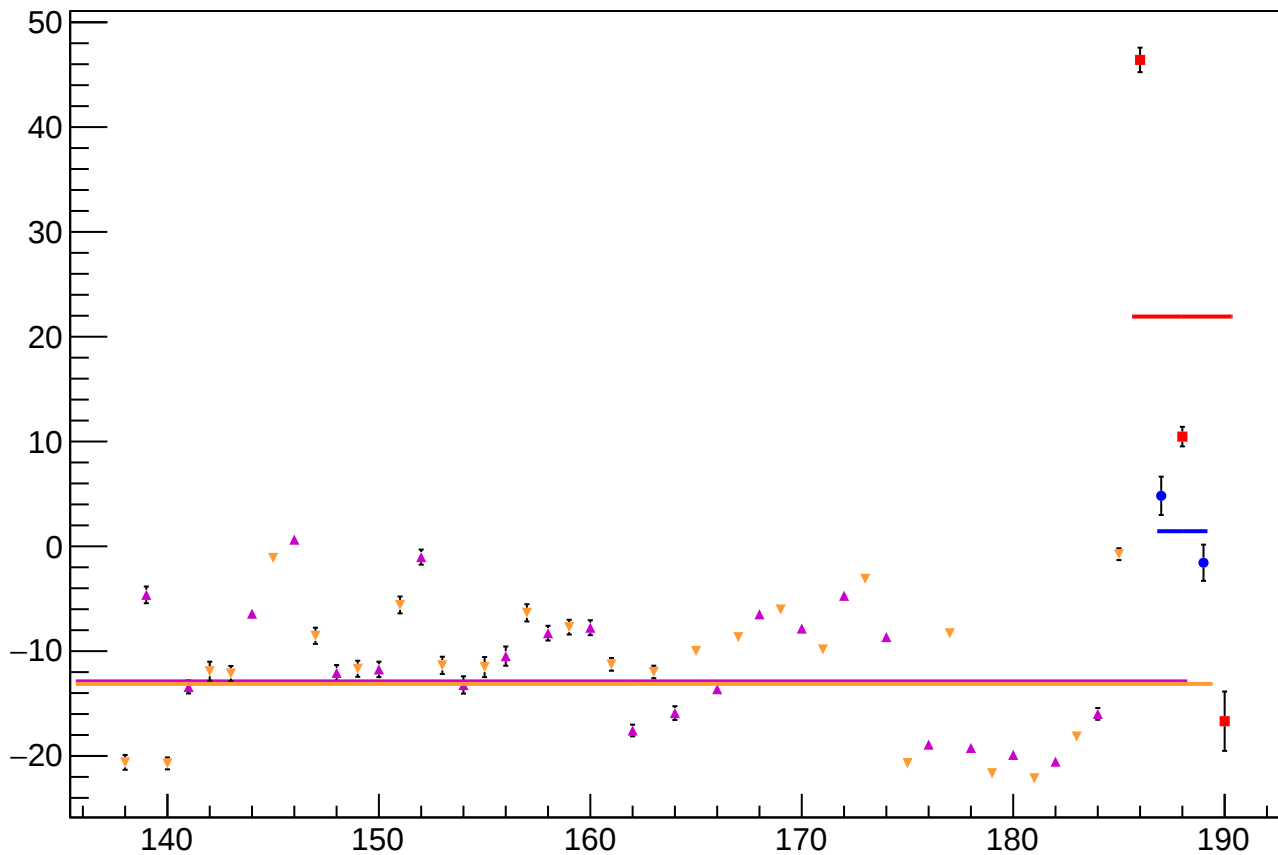
Right: 0.715 $\pm$ 0.031 χ^2 /NDF: 3381.5/4

In: 0.307 $\pm$ 0.002 χ^2 /NDF:1707.2/24

Out: 0.305 $\pm$ 0.002 χ^2 /NDF:5145.1/27

All: 0.306 $\pm$ 0.001 χ^2 /NDF: 6853.0/52

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.442 ± 1.255 $\chi^2/\text{NDF}: 6.4/1$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: 21.924 ± 0.705 $\chi^2/\text{NDF}: 777.5/2$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

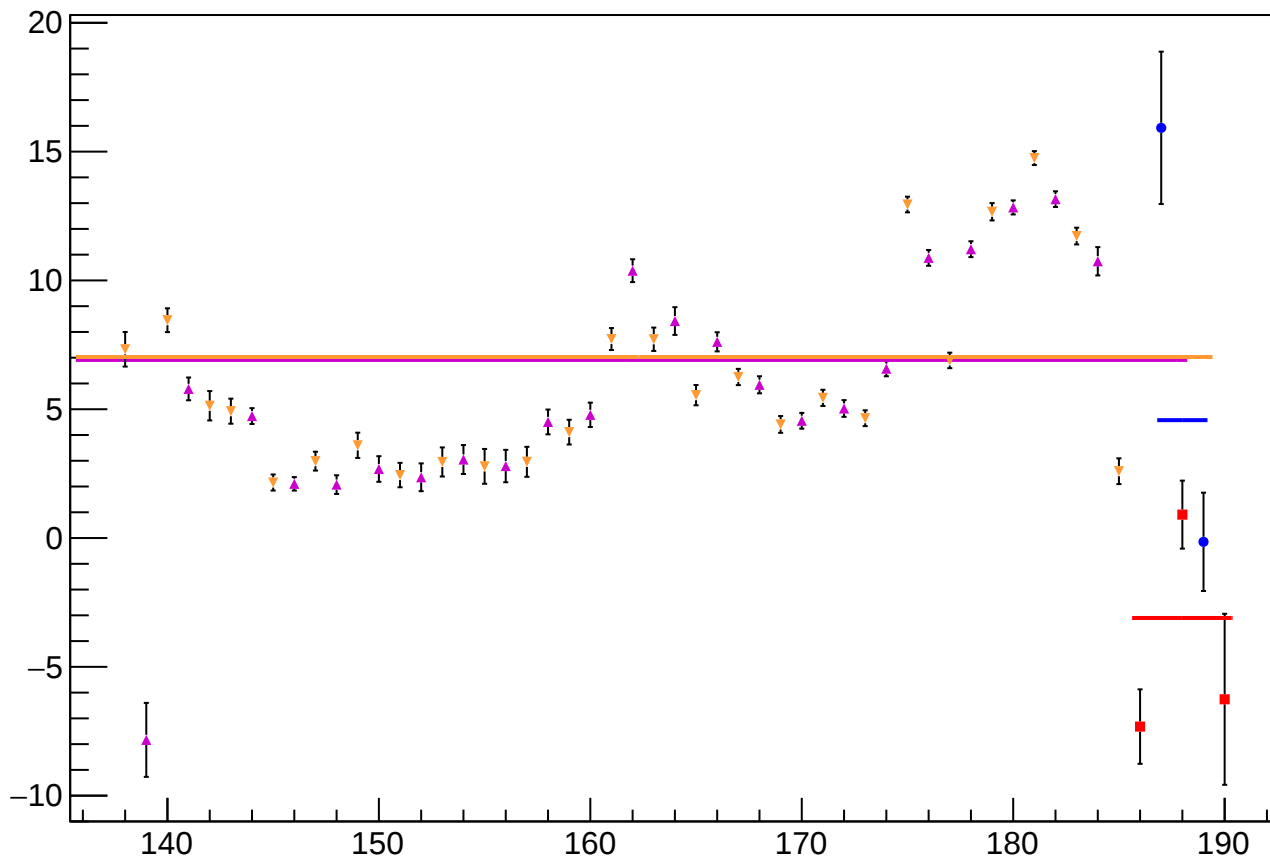
Right: 17.009 ± 0.615 $\chi^2/\text{NDF}: 986.3/4$

In: -12.804 ± 0.095 $\chi^2/\text{NDF}: 4912.2/24$

Out: -12.518 ± 0.093 $\chi^2/\text{NDF}: 9182.0/27$

All: -12.658 ± 0.066 $\chi^2/\text{NDF}: 14098.8/52$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.576+/-1.603 χ^2/NDF : 20.9/1

Left Out: 7.028+/-0.077 χ^2/NDF : 2665.3/24

Right Out: -3.103+/-0.935 χ^2/NDF : 18.7/2

Left In: 6.914+/-0.078 χ^2/NDF : 2428.2/22

Left: 6.971+/-0.055 χ^2/NDF : 5094.6/47

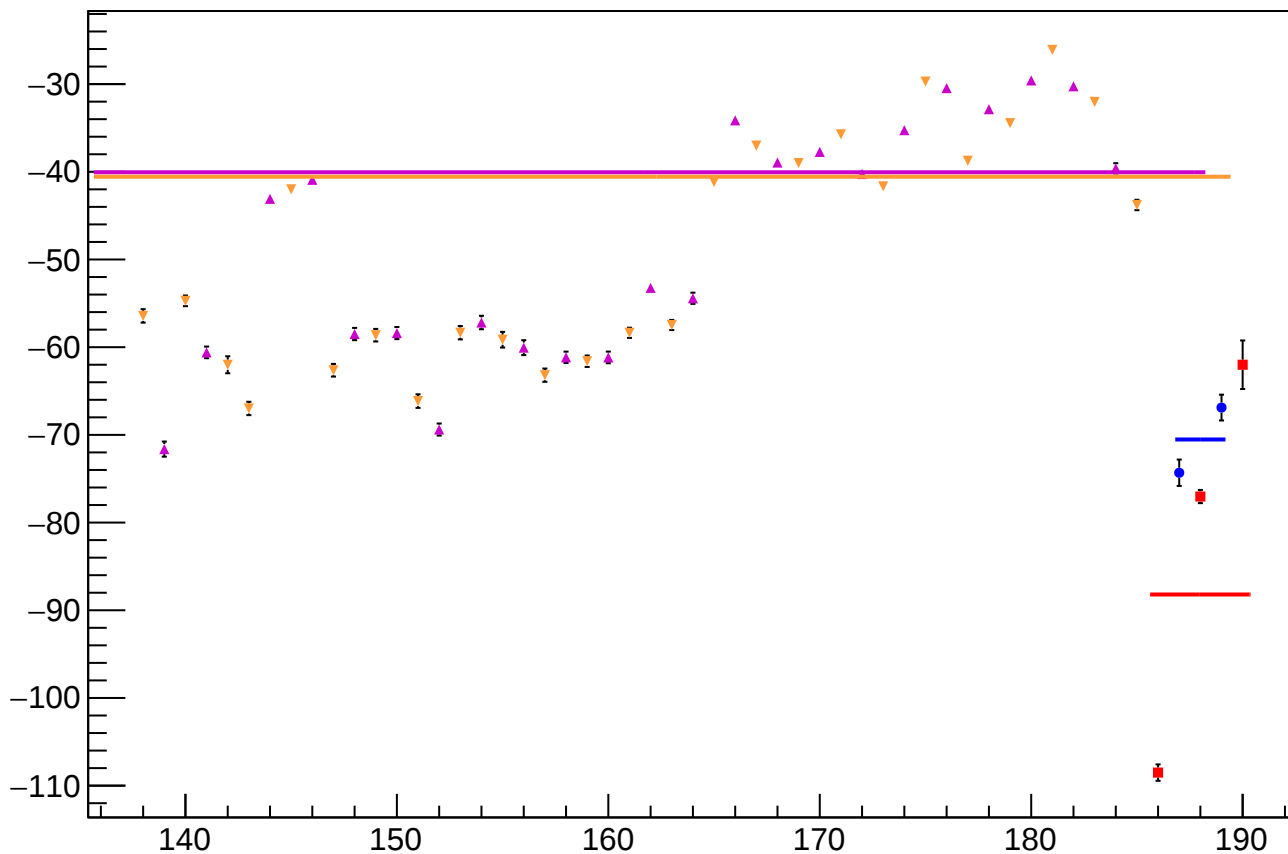
Right: -1.154+/-0.808 χ^2/NDF : 56.6/4

In: 6.908+/-0.078 χ^2/NDF : 2451.2/24

Out: 6.959+/-0.077 χ^2/NDF : 2800.5/27

All: 6.934+/-0.055 χ^2/NDF : 5252.0/52

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.525 ± 1.052 $\chi^2/\text{NDF}: 12.5/1$

Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$

Right Out: -88.202 ± 0.573 $\chi^2/\text{NDF}: 781.7/2$

Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

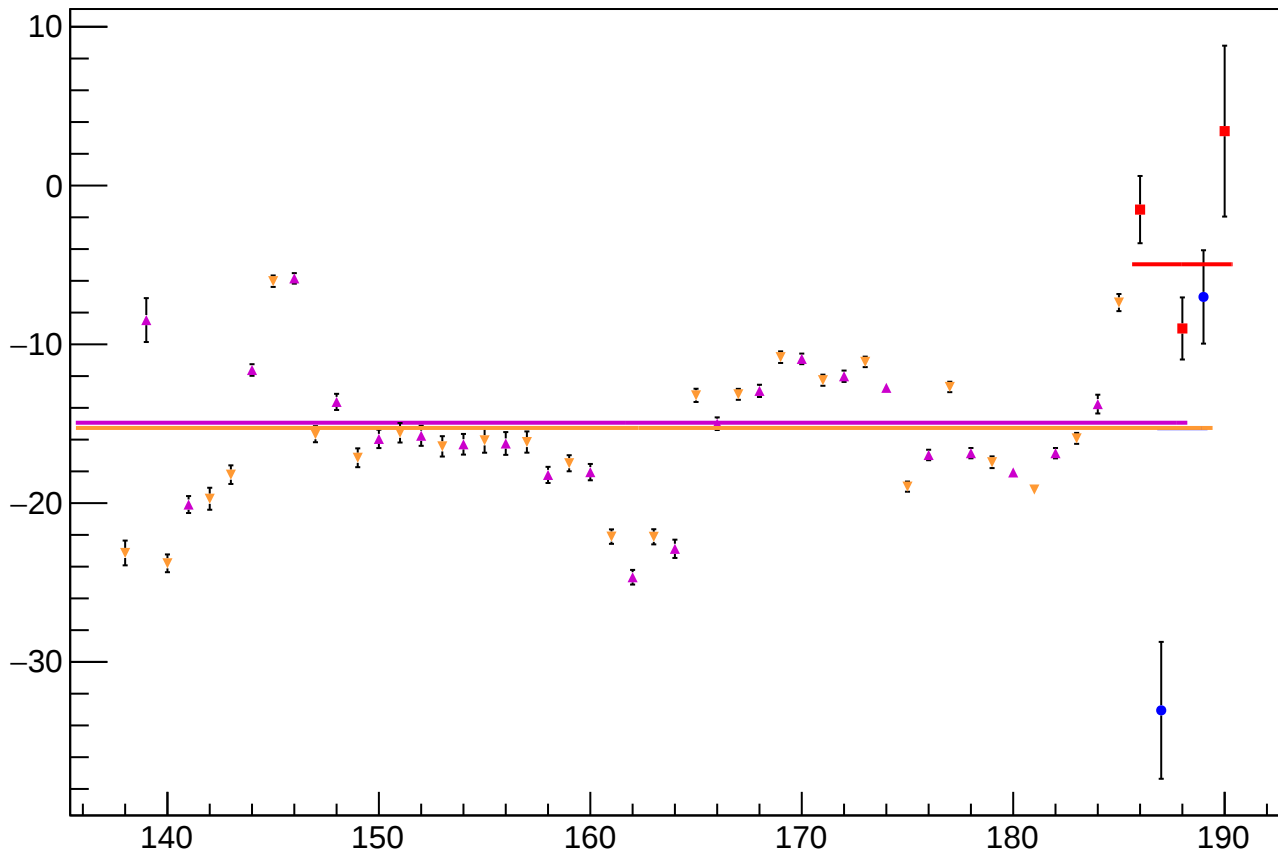
Right: -84.154 ± 0.503 $\chi^2/\text{NDF}: 1011.9/4$

In: -40.303 ± 0.095 $\chi^2/\text{NDF}: 14772.4/24$

Out: -41.829 ± 0.093 $\chi^2/\text{NDF}: 23142.7/27$

All: -41.081 ± 0.067 $\chi^2/\text{NDF}: 38045.8/52$

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.280+/-2.429 χ^2/NDF : 24.9/1

Left Out: -15.266+/-0.086 χ^2/NDF : 2595.5/24

Right Out: -4.958+/-1.388 χ^2/NDF : 9.3/2

Left In: -14.936+/-0.087 χ^2/NDF : 2199.7/22

Left: -15.103+/-0.061 χ^2/NDF : 4802.4/47

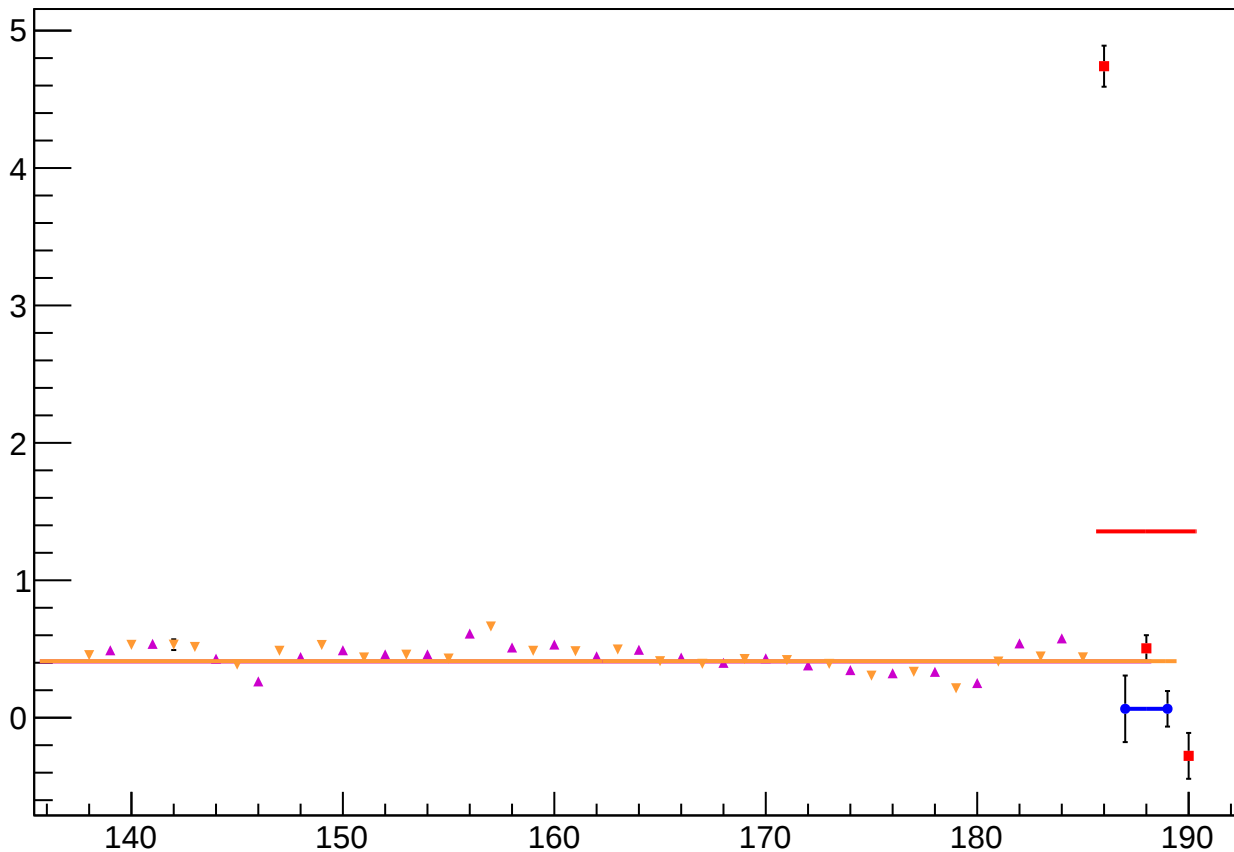
Right: -7.498+/-1.205 χ^2/NDF : 47.9/4

In: -14.937+/-0.087 χ^2/NDF : 2224.6/24

Out: -15.226+/-0.086 χ^2/NDF : 2659.8/27

All: -15.083+/-0.061 χ^2/NDF : 4890.0/52

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.065+/-0.114 χ^2/NDF : 0.0/1

Left Out: 0.411+/-0.004 χ^2/NDF : 428.7/24

Right Out: 1.356+/-0.073 χ^2/NDF : 688.6/2

Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

Left: 0.410+/-0.003 χ^2/NDF : 986.7/47

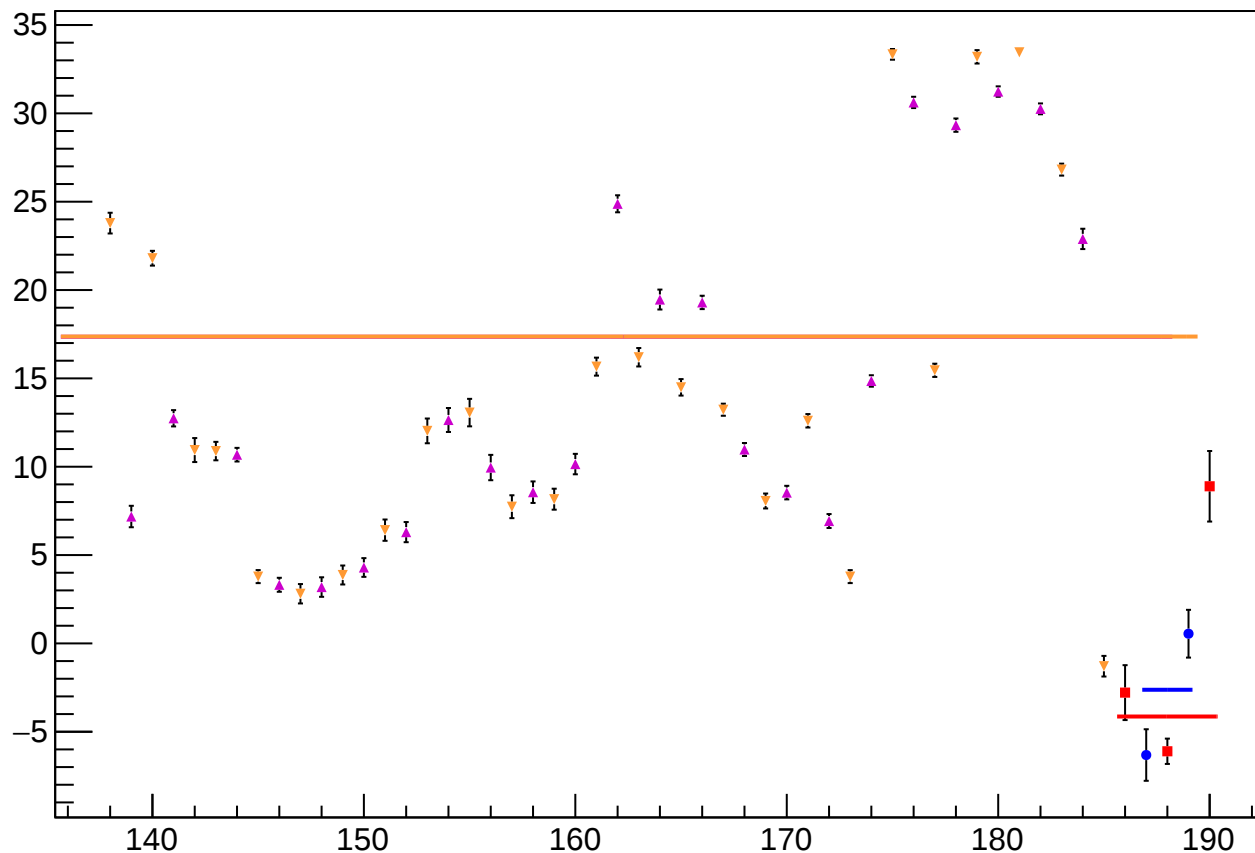
Right: 0.984+/-0.061 χ^2/NDF : 779.7/4

In: 0.409+/-0.004 χ^2/NDF : 567.0/24

Out: 0.414+/-0.004 χ^2/NDF : 1286.3/27

All: 0.412+/-0.003 χ^2/NDF : 1854.1/52

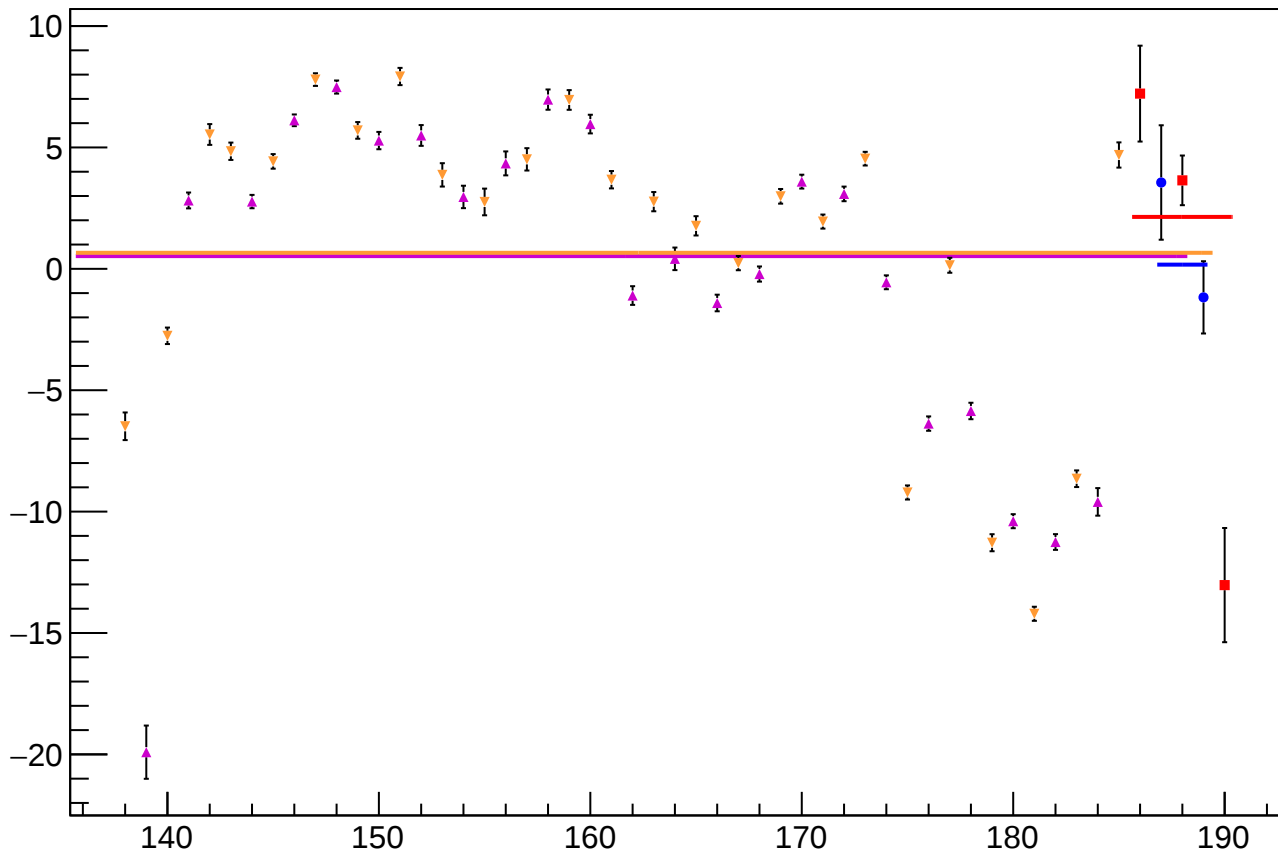
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.624 ± 0.992 χ^2/NDF : 11.9/1
 Left Out: 17.367 ± 0.087 χ^2/NDF : 16337.6/24
 Right Out: -4.138 ± 0.619 χ^2/NDF : 50.9/2
 Left In: 17.355 ± 0.089 χ^2/NDF : 12745.1/22

Left: 17.361 ± 0.062 χ^2/NDF : 29082.8/47
 Right: -3.714 ± 0.525 χ^2/NDF : 64.5/4
 In: 17.196 ± 0.089 χ^2/NDF : 13159.9/24
 Out: 16.949 ± 0.086 χ^2/NDF : 17572.8/27
 All: 17.069 ± 0.062 χ^2/NDF : 30736.6/52

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.173 ± 1.258 $\chi^2/\text{NDF}: 2.9/1$

Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$

Right Out: 2.139 ± 0.847 $\chi^2/\text{NDF}: 50.3/2$

Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$

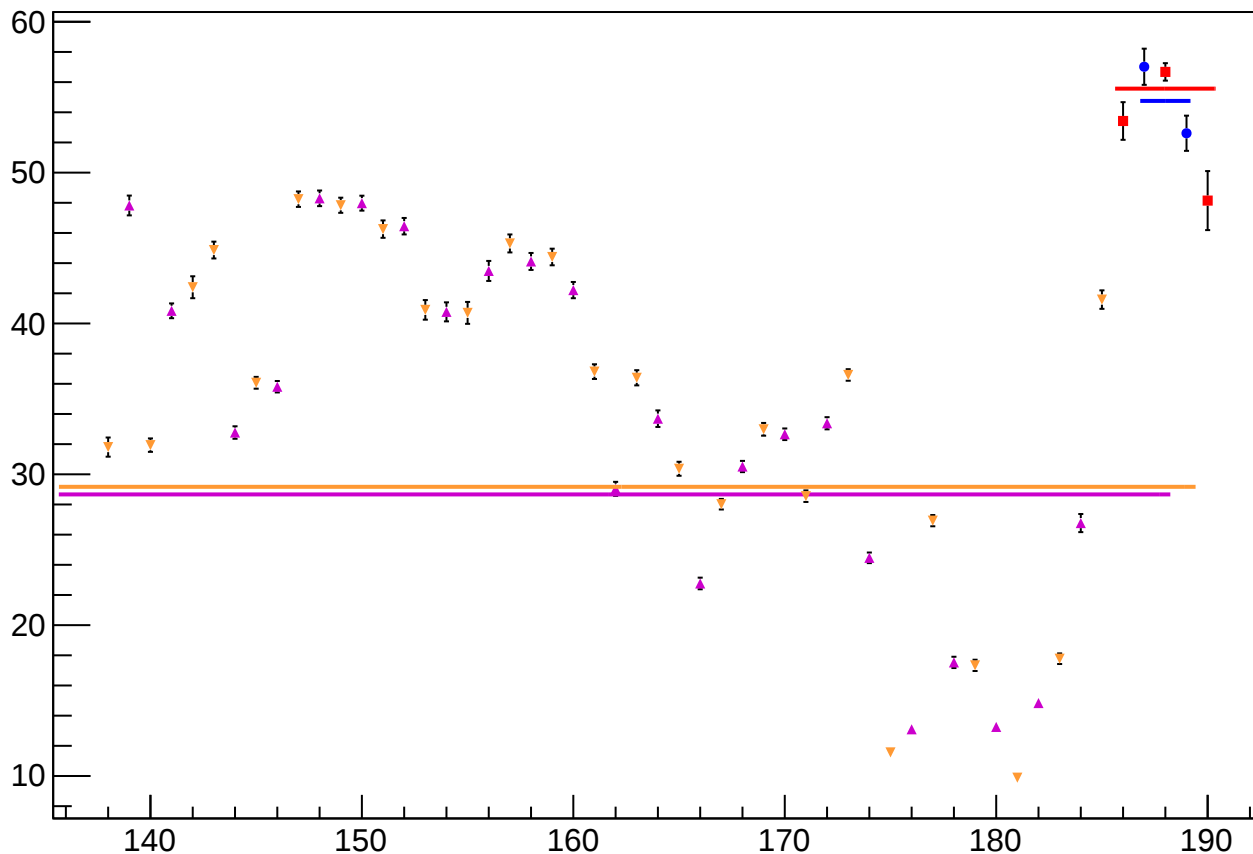
Right: 1.525 ± 0.703 $\chi^2/\text{NDF}: 54.9/4$

In: 0.523 ± 0.071 $\chi^2/\text{NDF}: 6732.7/24$

Out: 0.671 ± 0.069 $\chi^2/\text{NDF}: 8607.2/27$

All: 0.598 ± 0.049 $\chi^2/\text{NDF}: 15342.1/52$

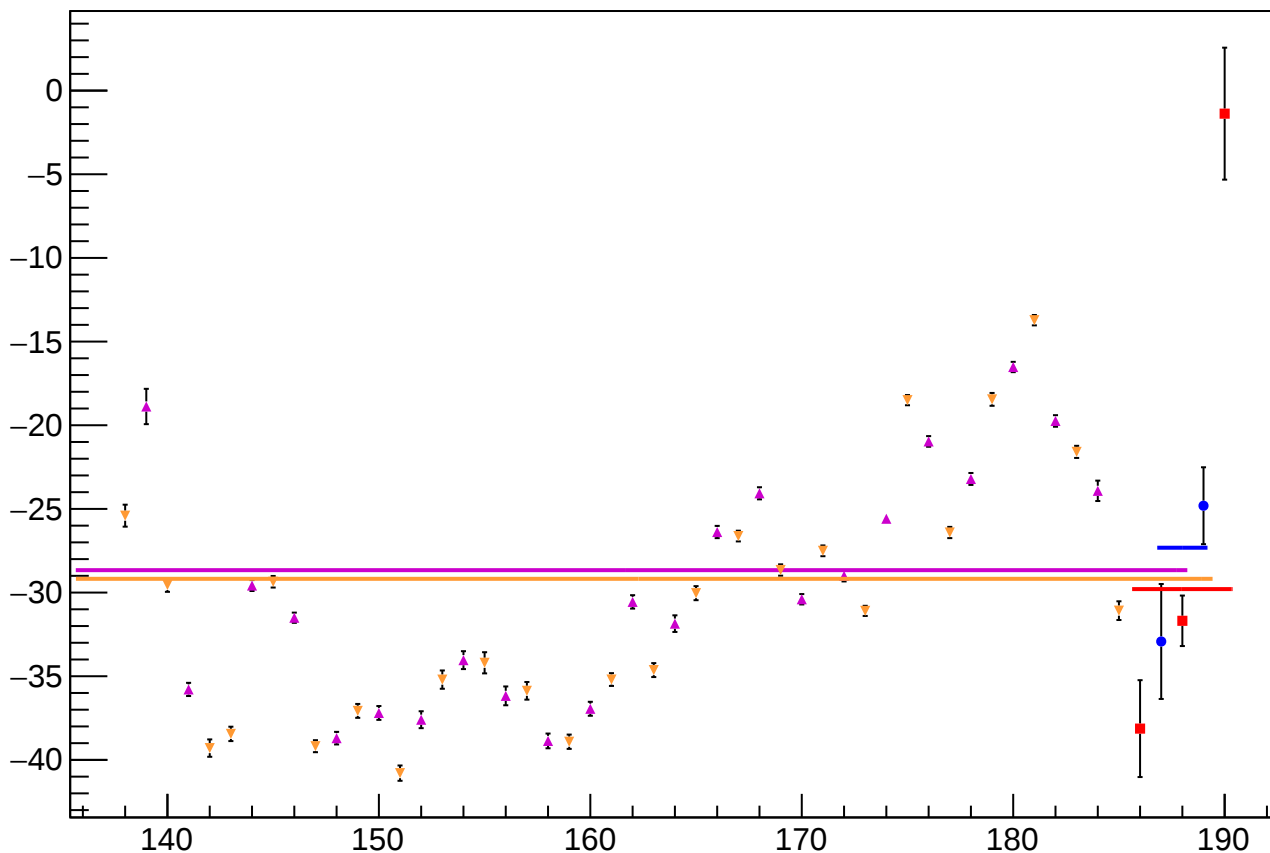
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 54.754 $\pm$ 0.836 χ^2 /NDF: 6.9/1
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 55.568 $\pm$ 0.507 χ^2 /NDF: 21.0/2
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 55.349 $\pm$ 0.434 χ^2 /NDF: 28.7/4
 In: 28.960 $\pm$ 0.089 χ^2 /NDF:17816.7/24
 Out: 29.939 $\pm$ 0.086 χ^2 /NDF:21627.8/27
 All: 29.462 $\pm$ 0.062 χ^2 /NDF: 39507.0/52

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.319 ± 1.910 χ^2/NDF : 3.9/1

Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24

Right Out: -29.792 ± 1.267 χ^2/NDF : 61.8/2

Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47

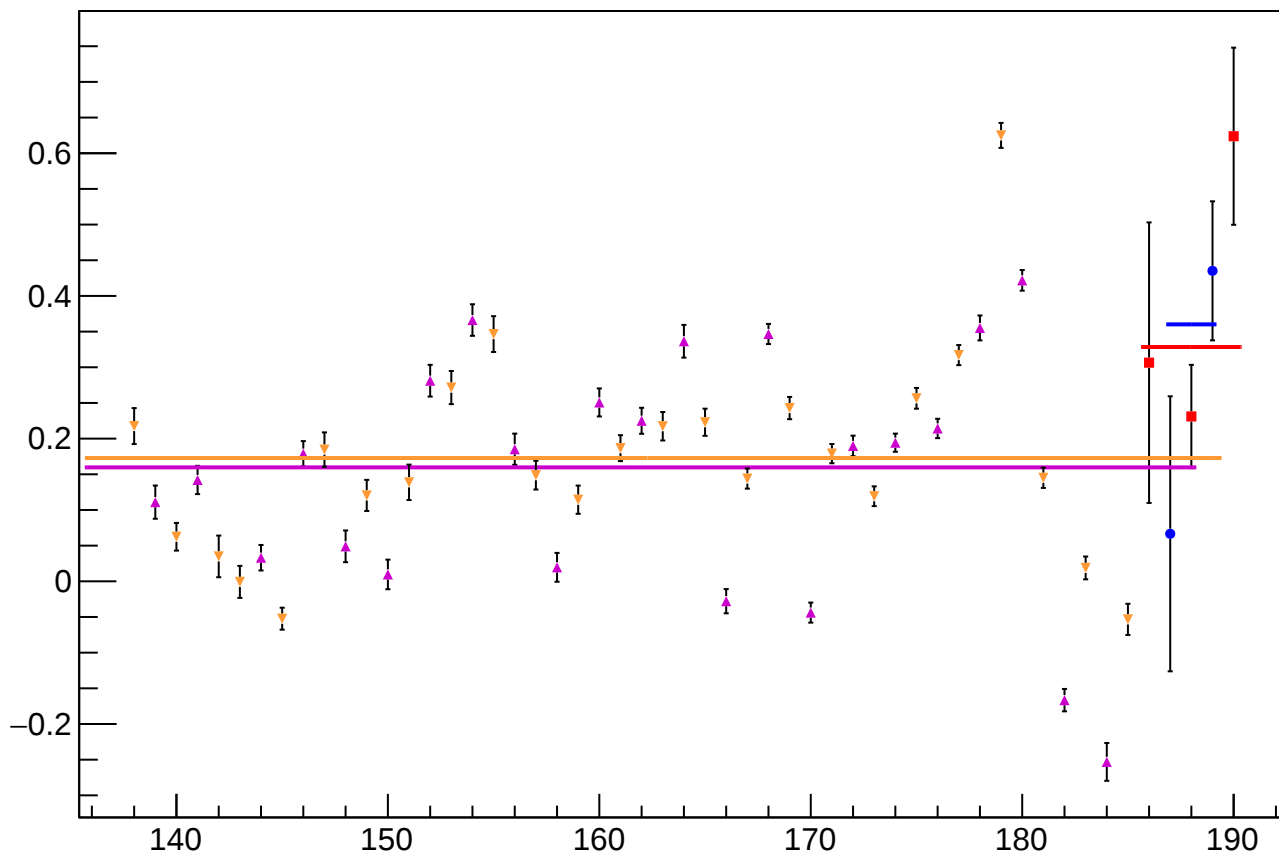
Right: -29.036 ± 1.056 χ^2/NDF : 66.8/4

In: -28.658 ± 0.080 χ^2/NDF : 6674.5/24

Out: -29.180 ± 0.078 χ^2/NDF : 9143.4/27

All: -28.925 ± 0.056 χ^2/NDF : 15839.8/52

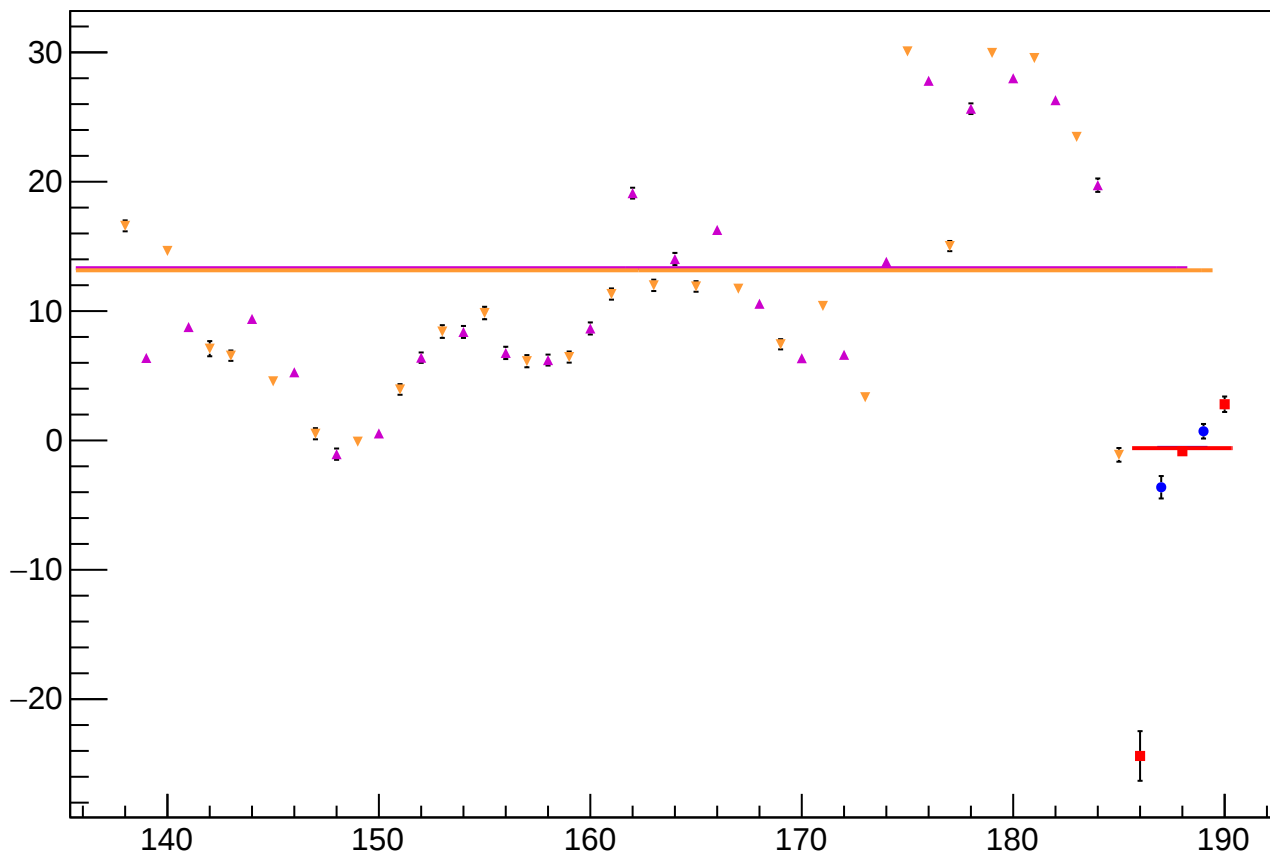
reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.360 $\pm$ 0.087 χ^2 /NDF: 2.9/1
 Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24
 Right Out: 0.328 $\pm$ 0.060 χ^2 /NDF: 7.5/2
 Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47
 Right: 0.339 $\pm$ 0.049 χ^2 /NDF: 10.5/4
 In: 0.160 $\pm$ 0.004 χ^2 /NDF:2066.1/24
 Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1492.8/27
 All: 0.167 $\pm$ 0.003 χ^2 /NDF: 3565.7/52

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.575 ± 0.473 χ^2/NDF : 17.5/1

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: -0.596 ± 0.253 χ^2/NDF : 186.6/2

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

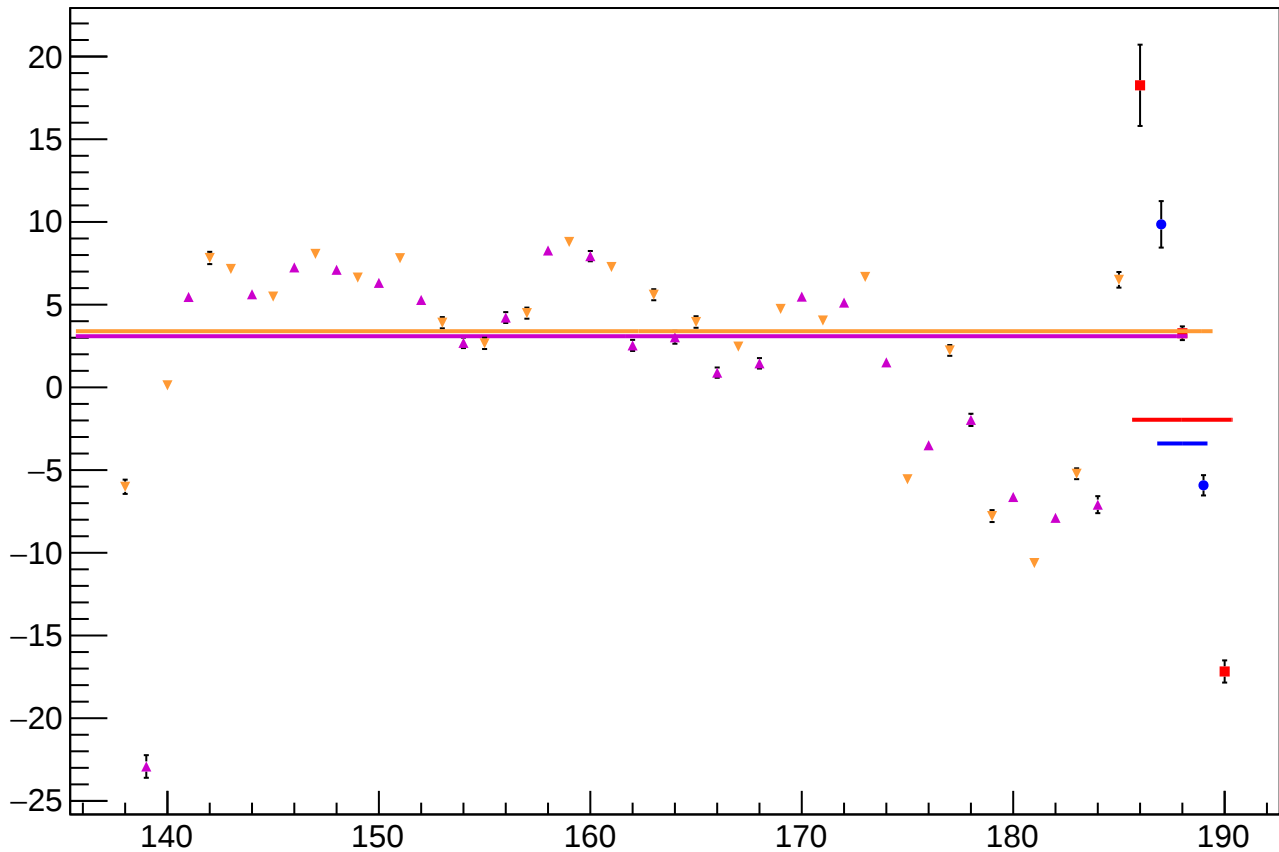
Right: -0.591 ± 0.223 χ^2/NDF : 204.1/4

In: 12.955 ± 0.076 χ^2/NDF : 14836.6/24

Out: 12.035 ± 0.072 χ^2/NDF : 19983.1/27

All: 12.470 ± 0.052 χ^2/NDF : 34896.6/52

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.392+/-0.563 χ^2/NDF : 105.8/1

Left Out: 3.396+/-0.058 χ^2/NDF :8101.5/24

Right Out: -1.957+/-0.349 χ^2/NDF : 741.3/2

Left In: 3.092+/-0.061 χ^2/NDF :7104.4/22

Left: 3.250+/-0.042 χ^2/NDF : 15218.9/47

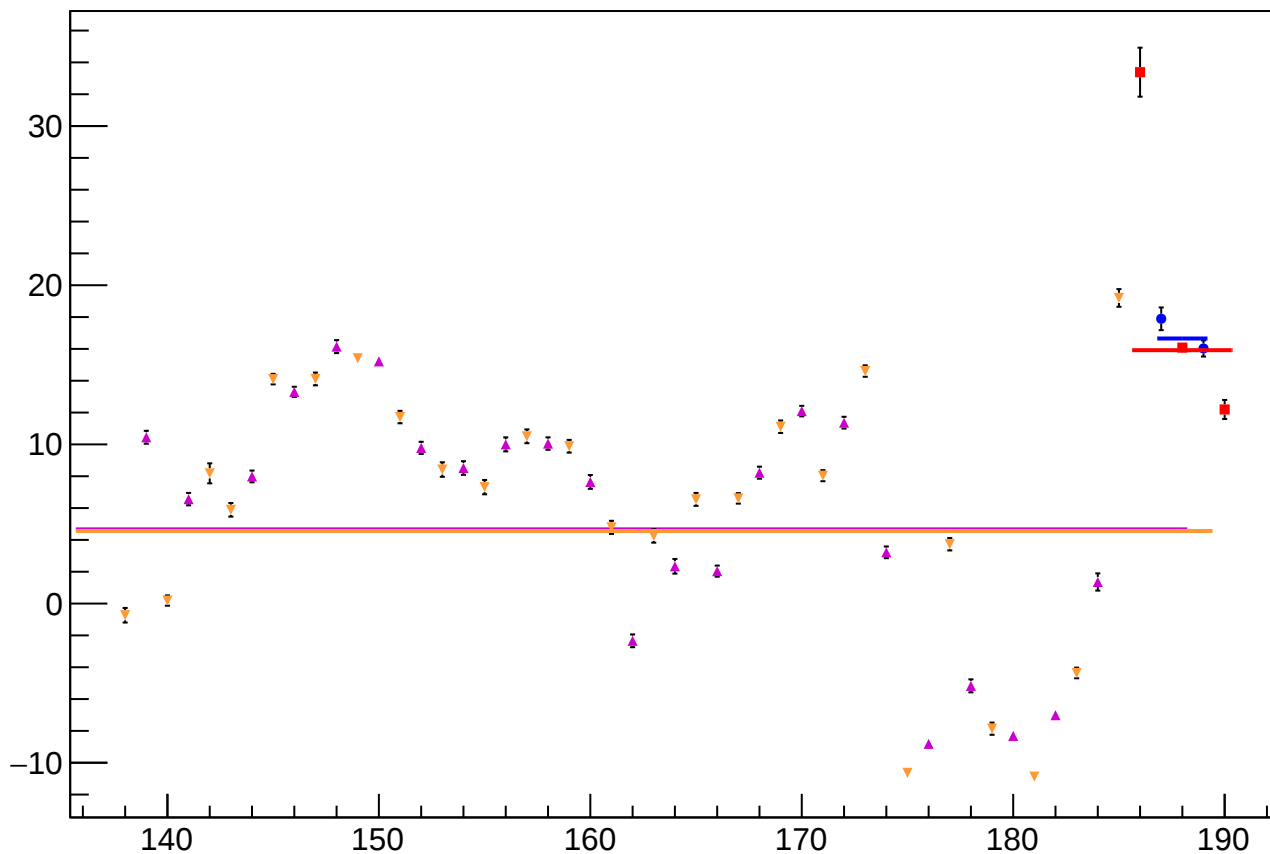
Right: -2.356+/-0.297 χ^2/NDF : 851.8/4

In: 3.018+/-0.060 χ^2/NDF :7341.5/24

Out: 3.250+/-0.058 χ^2/NDF :9071.7/27

All: 3.139+/-0.042 χ^2/NDF : 16420.9/52

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.654 $\pm$ 0.413 χ^2 /NDF: 4.5/1

Left Out: 4.561 $\pm$ 0.075 χ^2 /NDF:13592.1/24

Right Out: 15.919 $\pm$ 0.212 χ^2 /NDF: 168.0/2

Left In: 4.662 $\pm$ 0.077 χ^2 /NDF:11281.5/22

Left: 4.610 $\pm$ 0.054 χ^2 /NDF: 24874.4/47

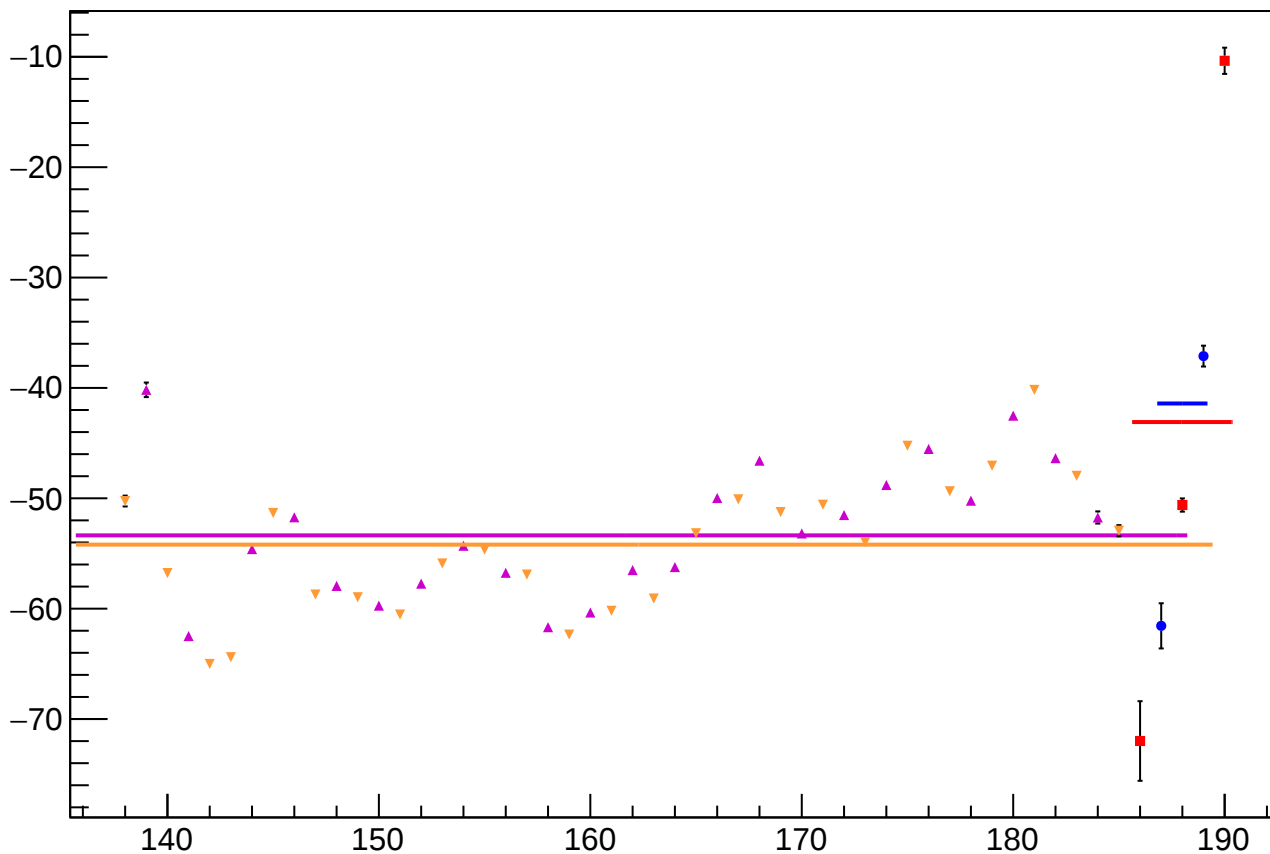
Right: 16.071 $\pm$ 0.188 χ^2 /NDF: 175.0/4

In: 5.062 $\pm$ 0.076 χ^2 /NDF:12099.2/24

Out: 5.841 $\pm$ 0.071 χ^2 /NDF:16318.3/27

All: 5.475 $\pm$ 0.052 χ^2 /NDF: 28473.9/52

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -41.410 $\pm$ 0.858 χ^2 /NDF: 117.6/1
 Left Out: -54.199 $\pm$ 0.066 χ^2 /NDF:8454.7/24
 Right Out: -43.091 $\pm$ 0.529 χ^2 /NDF: 980.5/2
 Left In: -53.359 $\pm$ 0.068 χ^2 /NDF:6882.0/22

Left: -53.792 $\pm$ 0.048 χ^2 /NDF: 15414.3/47

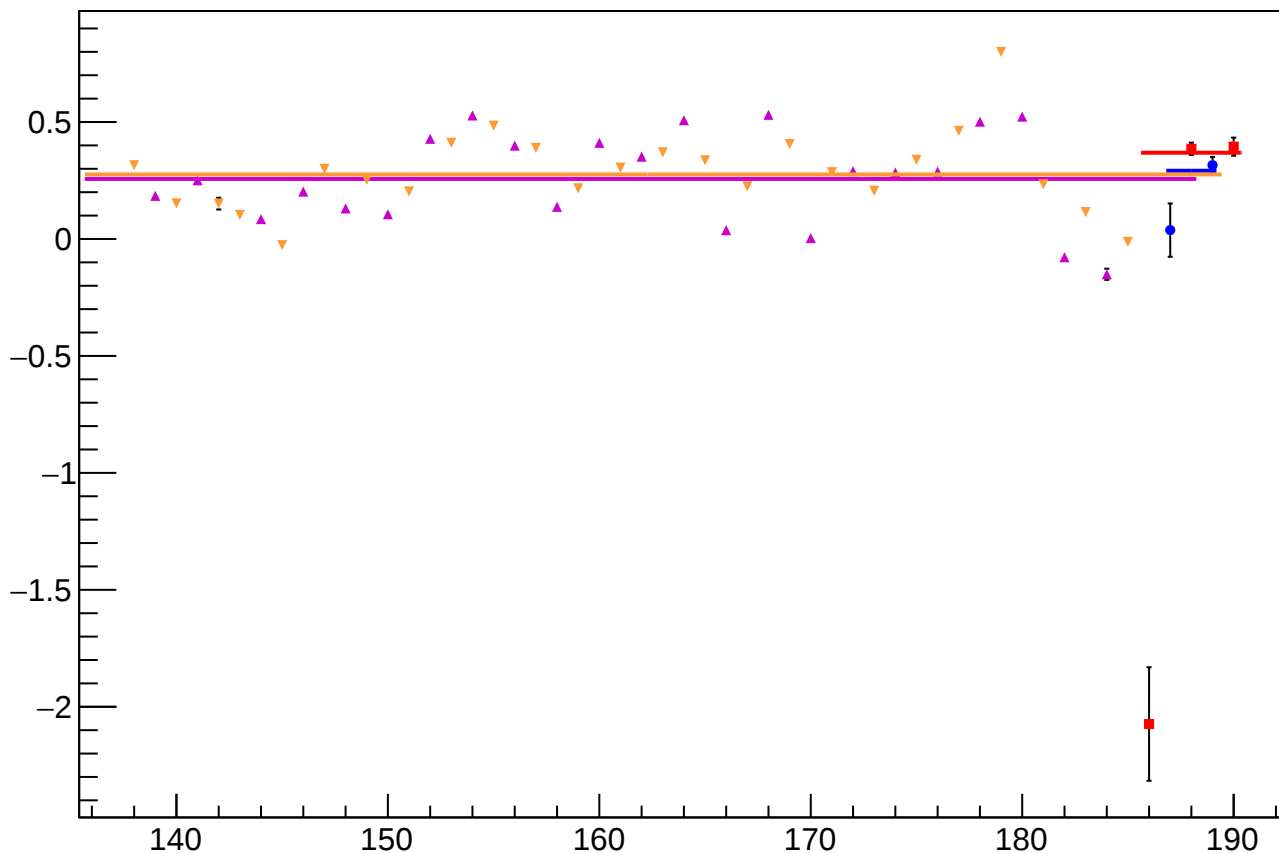
Right: -42.628 $\pm$ 0.450 χ^2 /NDF: 1100.8/4

In: -53.283 $\pm$ 0.068 χ^2 /NDF:7192.4/24

Out: -54.027 $\pm$ 0.066 χ^2 /NDF:9869.2/27

All: -53.668 $\pm$ 0.047 χ^2 /NDF: 17123.0/52

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.292 $\pm$ 0.034 χ^2 /NDF: 5.4/1

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF: 2623.6/24

Right Out: 0.369 $\pm$ 0.022 χ^2 /NDF: 102.1/2

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

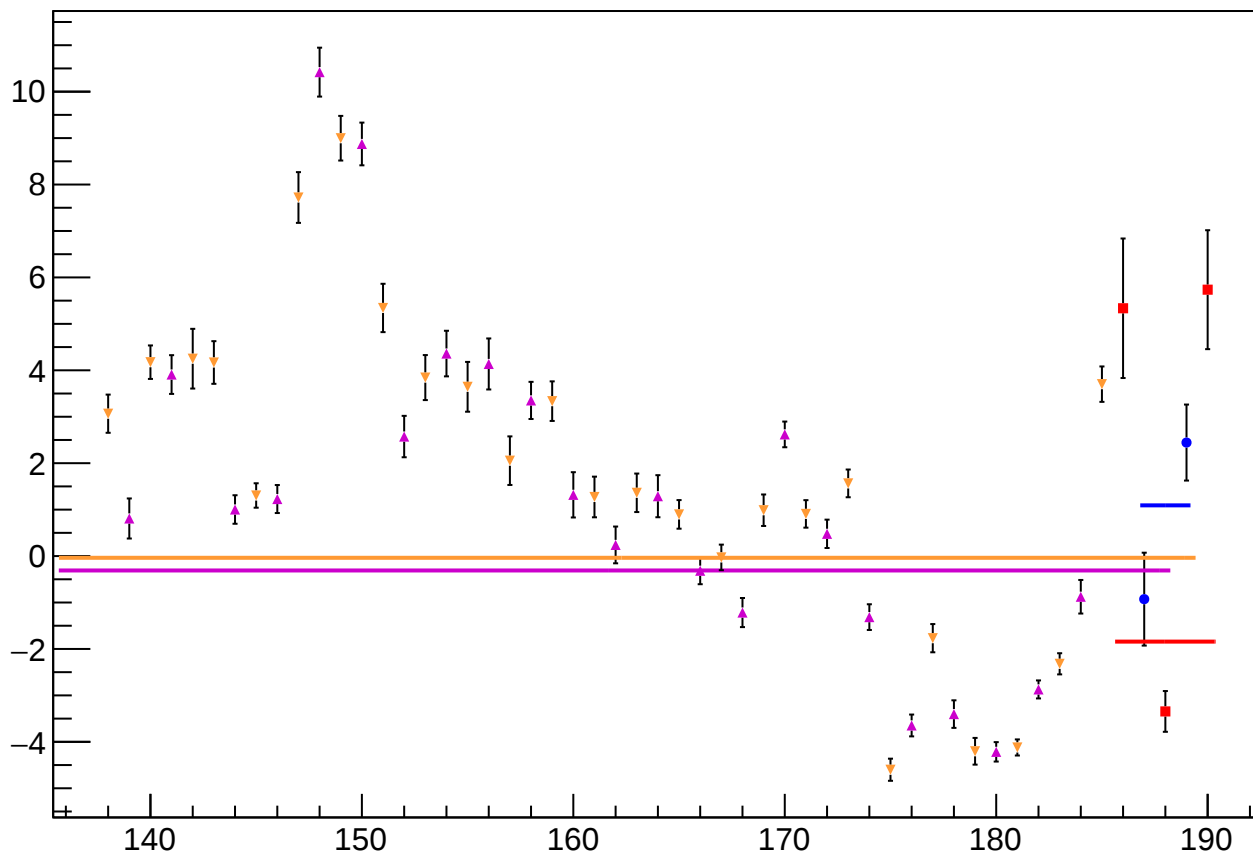
Right: 0.346 $\pm$ 0.018 χ^2 /NDF: 111.2/4

In: 0.257 $\pm$ 0.003 χ^2 /NDF: 3630.4/24

Out: 0.278 $\pm$ 0.003 χ^2 /NDF: 2743.7/27

All: 0.268 $\pm$ 0.002 χ^2 /NDF: 6397.1/52

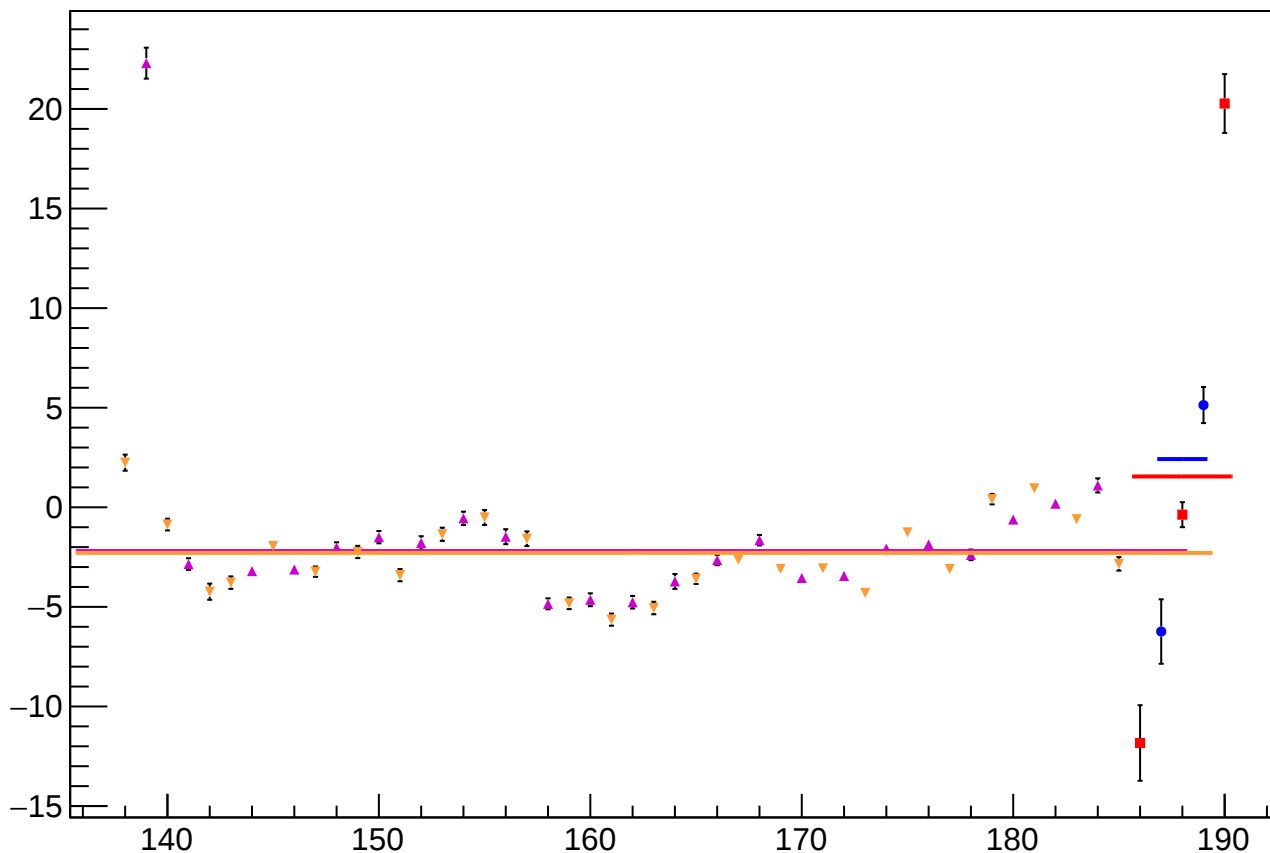
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.092 ± 0.633 $\chi^2/\text{NDF}: 6.8/1$
 Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$
 Right Out: -1.842 ± 0.400 $\chi^2/\text{NDF}: 69.6/2$
 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: -1.005 ± 0.338 $\chi^2/\text{NDF}: 91.7/4$
 In: -0.294 ± 0.067 $\chi^2/\text{NDF}: 2262.1/24$
 Out: -0.085 ± 0.065 $\chi^2/\text{NDF}: 2727.0/27$
 All: -0.187 ± 0.047 $\chi^2/\text{NDF}: 4994.2/52$

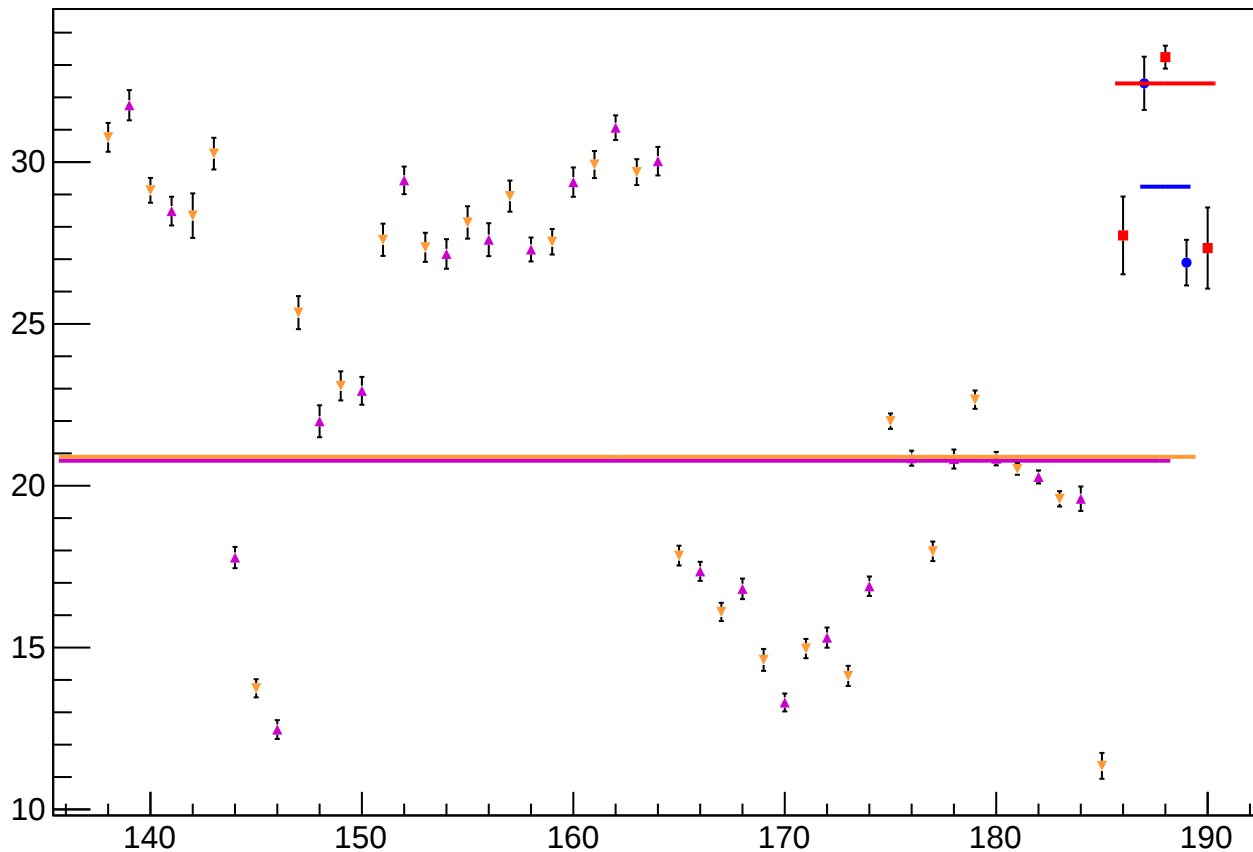
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.422+/-0.790 χ^2/NDF : 37.6/1
 Left Out: -2.288+/-0.054 χ^2/NDF : 1137.7/24
 Right Out: 1.548+/-0.553 χ^2/NDF : 219.7/2
 Left In: -2.198+/-0.055 χ^2/NDF : 1673.9/22

Left: -2.244+/-0.039 χ^2/NDF : 2813.0/47
 Right: 1.835+/-0.453 χ^2/NDF : 258.2/4
 In: -2.175+/-0.055 χ^2/NDF : 1745.5/24
 Out: -2.252+/-0.054 χ^2/NDF : 1405.1/27
 All: -2.214+/-0.038 χ^2/NDF : 3151.7/52

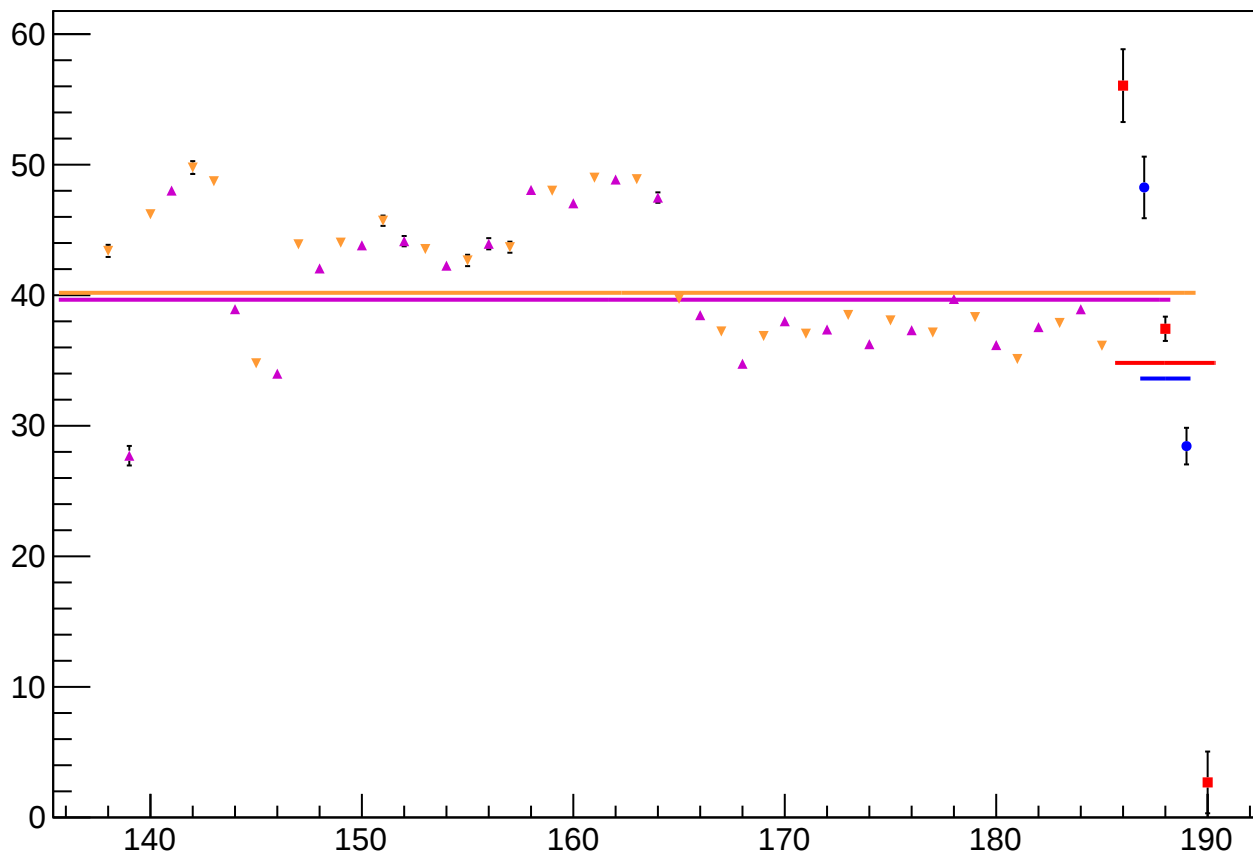
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.240 $\pm$ 0.535 χ^2 /NDF: 26.2/1
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24
 Right Out: 32.431 $\pm$ 0.328 χ^2 /NDF: 37.0/2
 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: 31.560 $\pm$ 0.279 χ^2 /NDF: 89.0/4
 In: 20.907 $\pm$ 0.067 χ^2 /NDF:6200.5/24
 Out: 21.353 $\pm$ 0.065 χ^2 /NDF:7882.3/27
 All: 21.136 $\pm$ 0.047 χ^2 /NDF: 14105.4/52

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 33.620 ± 1.205 $\chi^2/\text{NDF}: 52.2/1$

Left Out: 40.186 ± 0.060 $\chi^2/\text{NDF}: 5932.7/24$

Right Out: 34.818 ± 0.827 $\chi^2/\text{NDF}: 250.6/2$

Left In: 39.655 ± 0.061 $\chi^2/\text{NDF}: 5298.6/22$

Left: 39.925 ± 0.043 $\chi^2/\text{NDF}: 11269.2/47$

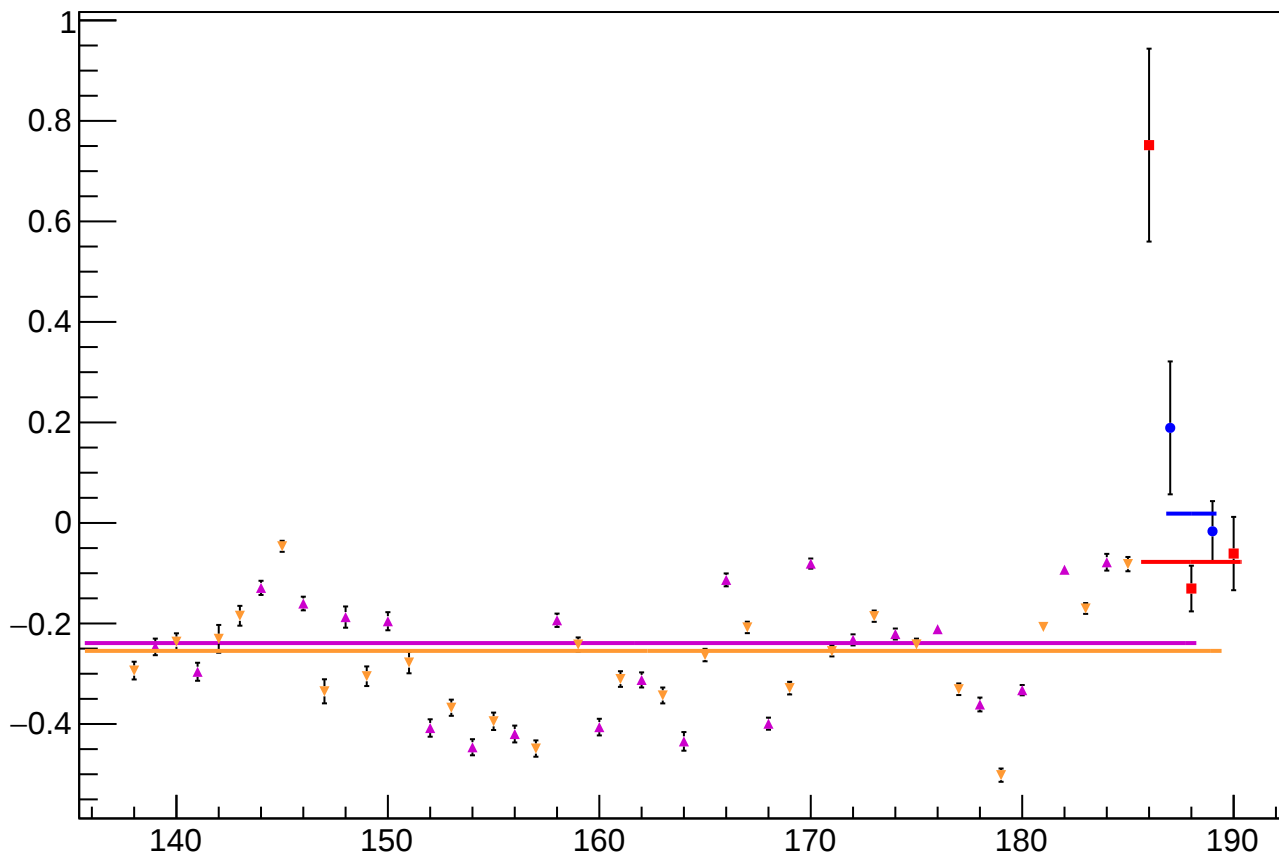
Right: 34.435 ± 0.682 $\chi^2/\text{NDF}: 303.4/4$

In: 39.639 ± 0.061 $\chi^2/\text{NDF}: 5375.7/24$

Out: 40.158 ± 0.060 $\chi^2/\text{NDF}: 6225.3/27$

All: 39.903 ± 0.043 $\chi^2/\text{NDF}: 11637.3/52$

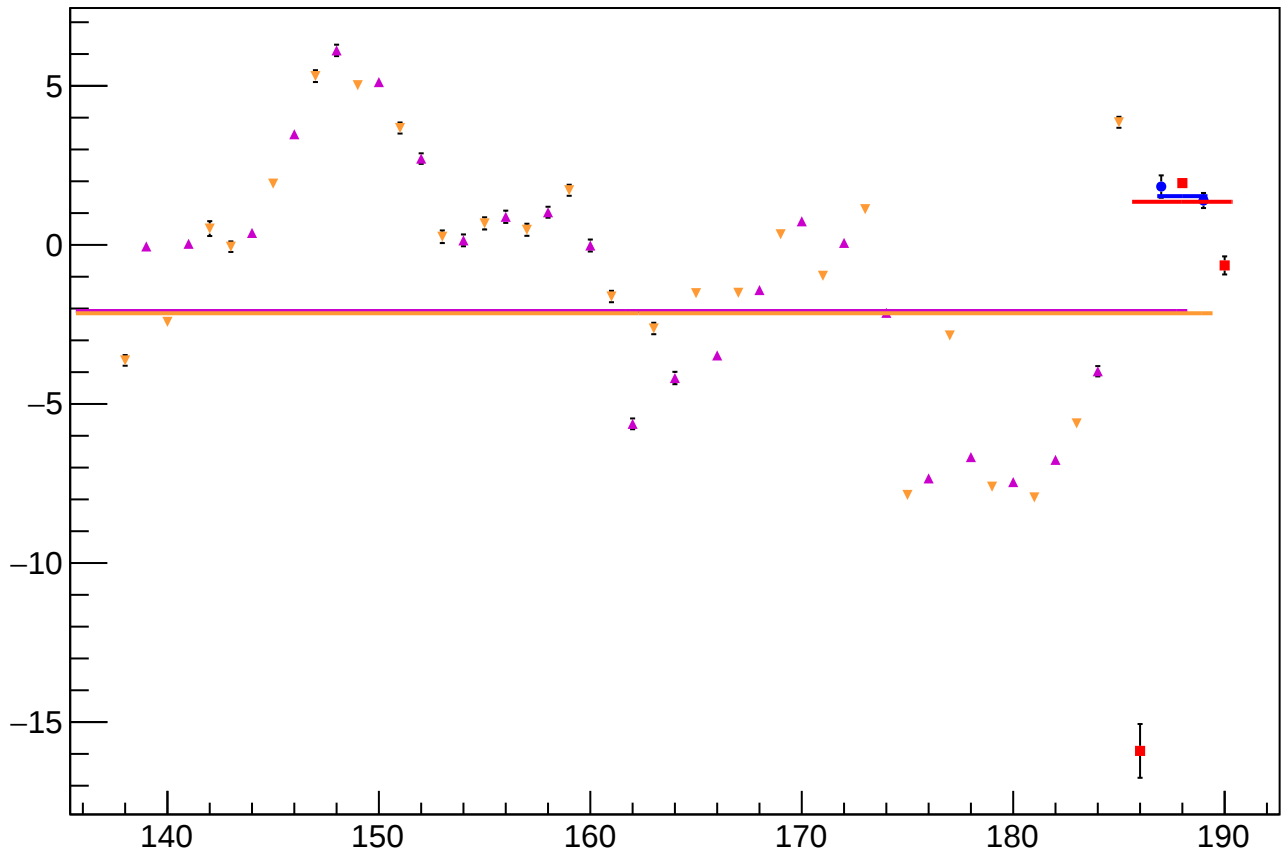
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.019 ± 0.055 $\chi^2/\text{NDF}: 2.0/1$
 Left Out: -0.255 ± 0.003 $\chi^2/\text{NDF}: 1420.4/24$
 Right Out: -0.077 ± 0.038 $\chi^2/\text{NDF}: 20.1/2$
 Left In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1750.5/22$

Left: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3186.7/47$
 Right: -0.046 ± 0.031 $\chi^2/\text{NDF}: 24.2/4$
 In: -0.238 ± 0.003 $\chi^2/\text{NDF}: 1774.6/24$
 Out: -0.254 ± 0.003 $\chi^2/\text{NDF}: 1462.3/27$
 All: -0.246 ± 0.002 $\chi^2/\text{NDF}: 3252.3/52$

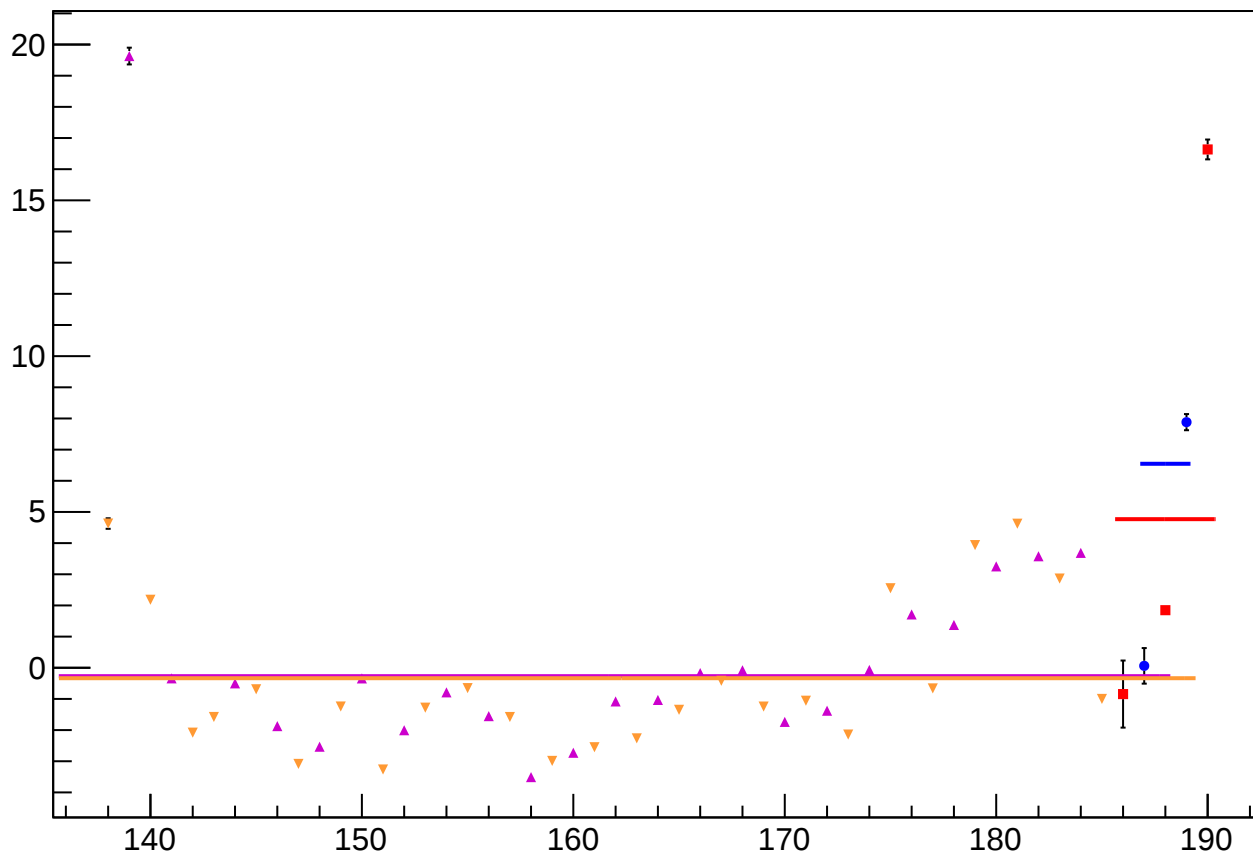
reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.533+/-0.197 χ^2/NDF : 1.1/1
 Left Out: -2.149+/-0.026 χ^2/NDF : 24536.3/24
 Right Out: 1.356+/-0.102 χ^2/NDF : 495.1/2
 Left In: -2.078+/-0.026 χ^2/NDF : 23245.8/22

Left: -2.114+/-0.018 χ^2/NDF : 47785.8/47
 Right: 1.393+/-0.090 χ^2/NDF : 496.8/4
 In: -2.016+/-0.026 χ^2/NDF : 23578.4/24
 Out: -1.939+/-0.025 χ^2/NDF : 26150.0/27
 All: -1.976+/-0.018 χ^2/NDF : 49732.9/52

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



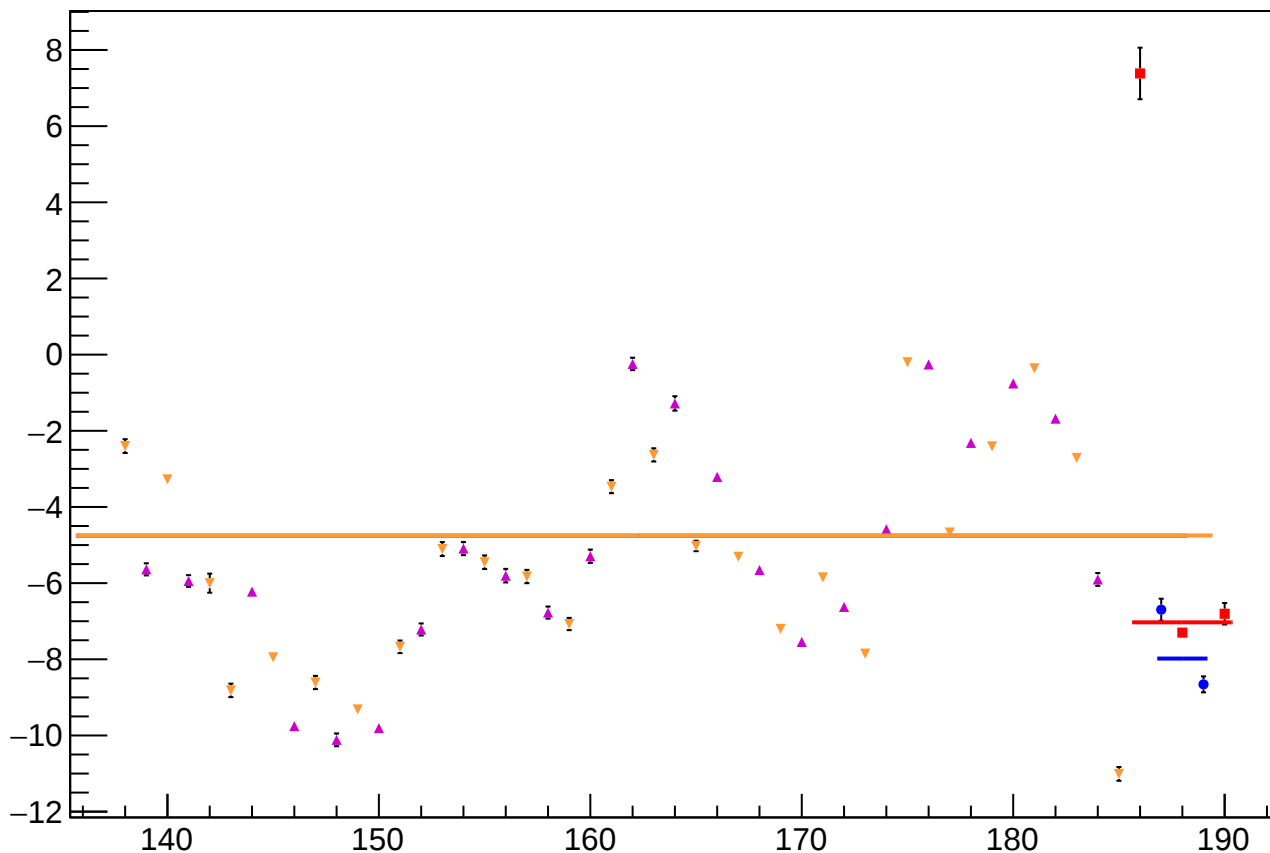
Right In: 6.546 $\pm$ 0.236 χ^2 /NDF: 155.6/1
 Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24
 Right Out: 4.769 $\pm$ 0.143 χ^2 /NDF: 1742.6/2
 Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47
 Right: 5.245 $\pm$ 0.122 χ^2 /NDF: 1939.8/4

In: -0.216 $\pm$ 0.021 χ^2 /NDF:14306.7/24
 Out: -0.231 $\pm$ 0.020 χ^2 /NDF:15592.0/27

All: -0.224 $\pm$ 0.015 χ^2 /NDF: 29899.0/52

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



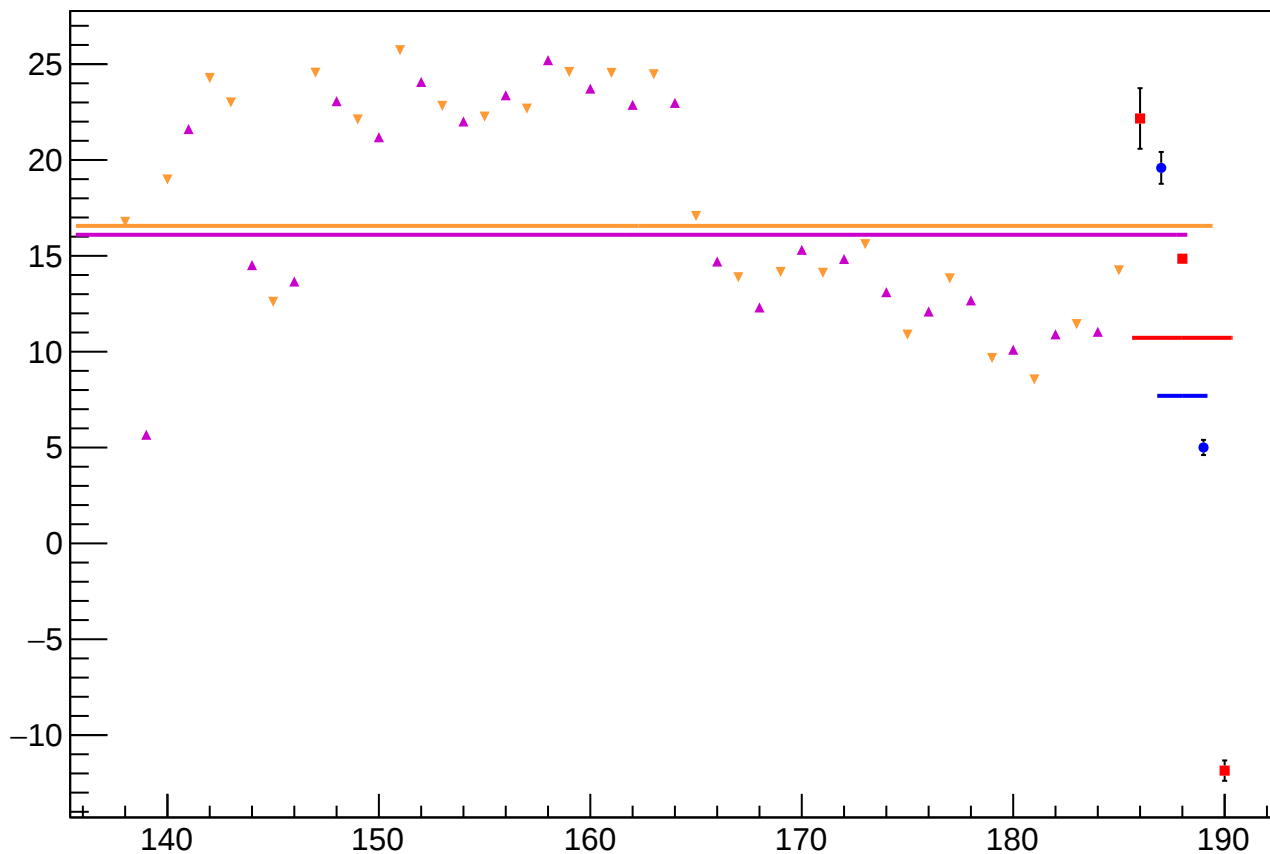
Right In: -7.980 $\pm$ 0.170 χ^2 /NDF: 30.0/1
 Left Out: -4.748 $\pm$ 0.026 χ^2 /NDF:13289.8/24
 Right Out: -7.029 $\pm$ 0.084 χ^2 /NDF: 462.7/2
 Left In: -4.753 $\pm$ 0.026 χ^2 /NDF:14119.2/22

Left: -4.751 $\pm$ 0.018 χ^2 /NDF: 27409.0/47
 Right: -7.216 $\pm$ 0.075 χ^2 /NDF: 517.9/4

In: -4.828 $\pm$ 0.026 χ^2 /NDF:14501.0/24
 Out: -4.945 $\pm$ 0.025 χ^2 /NDF:14424.3/27

All: -4.889 $\pm$ 0.018 χ^2 /NDF: 28936.0/52

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.698 ± 0.357 $\chi^2/\text{NDF}: 251.0/1$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 10.724 ± 0.212 $\chi^2/\text{NDF}: 2169.4/2$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

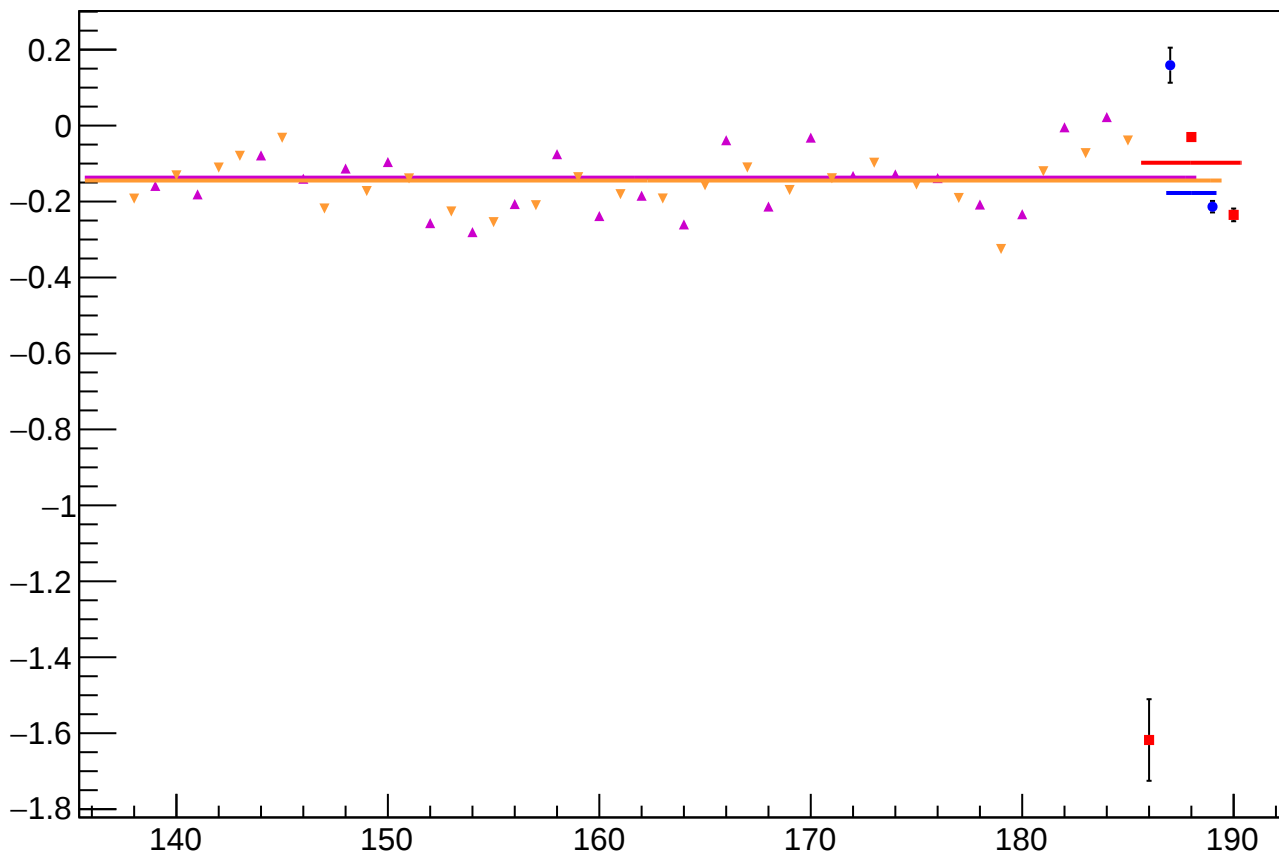
Right: 9.934 ± 0.182 $\chi^2/\text{NDF}: 2473.5/4$

In: 16.062 ± 0.024 $\chi^2/\text{NDF}: 43147.4/24$

Out: 16.494 ± 0.023 $\chi^2/\text{NDF}: 56776.4/27$

All: 16.283 ± 0.016 $\chi^2/\text{NDF}: 100096.4/52$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.177 ± 0.014 $\chi^2/\text{NDF}: 58.8/1$

Left Out: -0.145 ± 0.001 $\chi^2/\text{NDF}: 3769.7/24$

Right Out: -0.098 ± 0.009 $\chi^2/\text{NDF}: 309.9/2$

Left In: -0.137 ± 0.001 $\chi^2/\text{NDF}: 5392.6/22$

Left: -0.141 ± 0.001 $\chi^2/\text{NDF}: 9187.6/47$

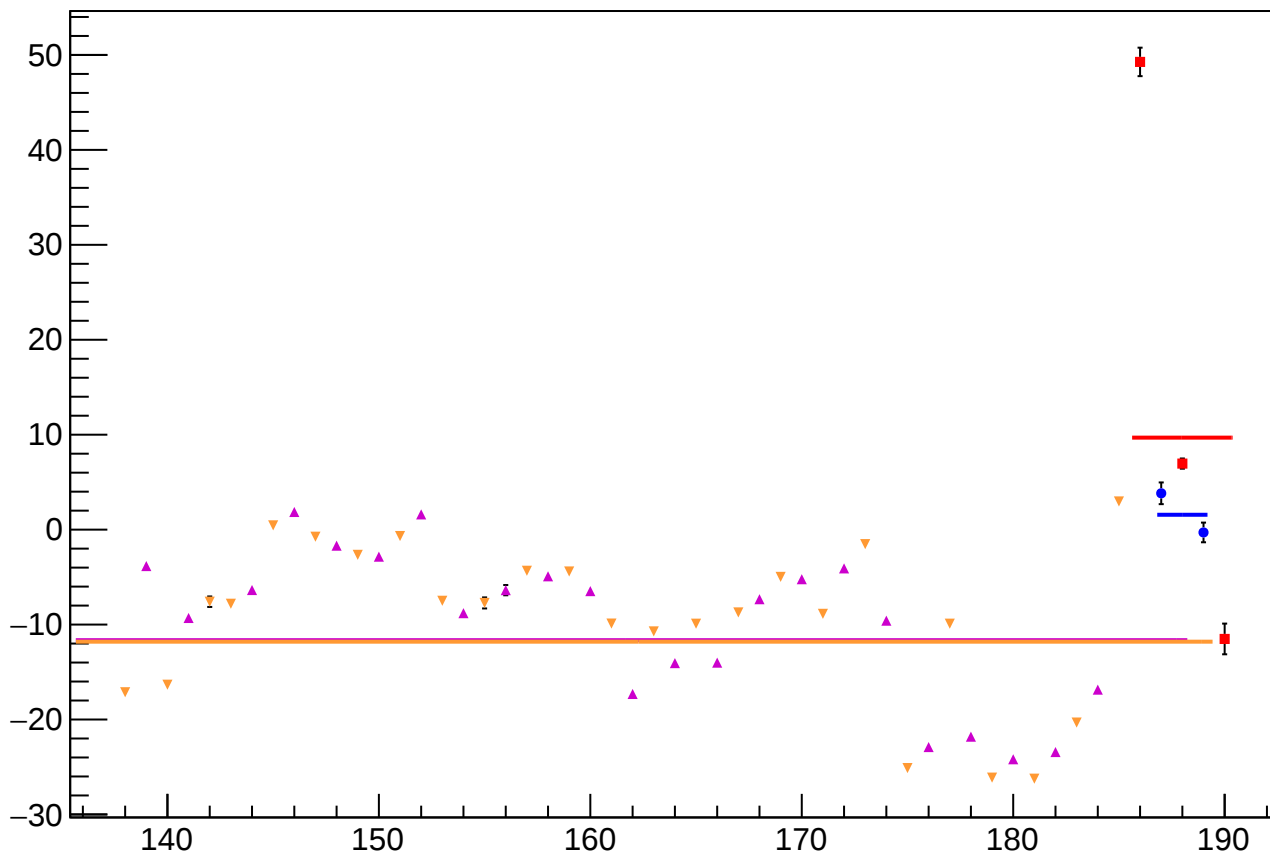
Right: -0.120 ± 0.008 $\chi^2/\text{NDF}: 391.0/4$

In: -0.137 ± 0.001 $\chi^2/\text{NDF}: 5459.2/24$

Out: -0.144 ± 0.001 $\chi^2/\text{NDF}: 4107.4/27$

All: -0.141 ± 0.001 $\chi^2/\text{NDF}: 9586.6/52$

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.566+/-0.768 χ^2/NDF : 7.1/1

Left Out: -11.801+/-0.070 χ^2/NDF : 17308.2/24

Right Out: 9.691+/-0.482 χ^2/NDF : 894.2/2

Left In: -11.642+/-0.072 χ^2/NDF : 14121.2/22

Left: -11.723+/-0.050 χ^2/NDF : 31432.0/47

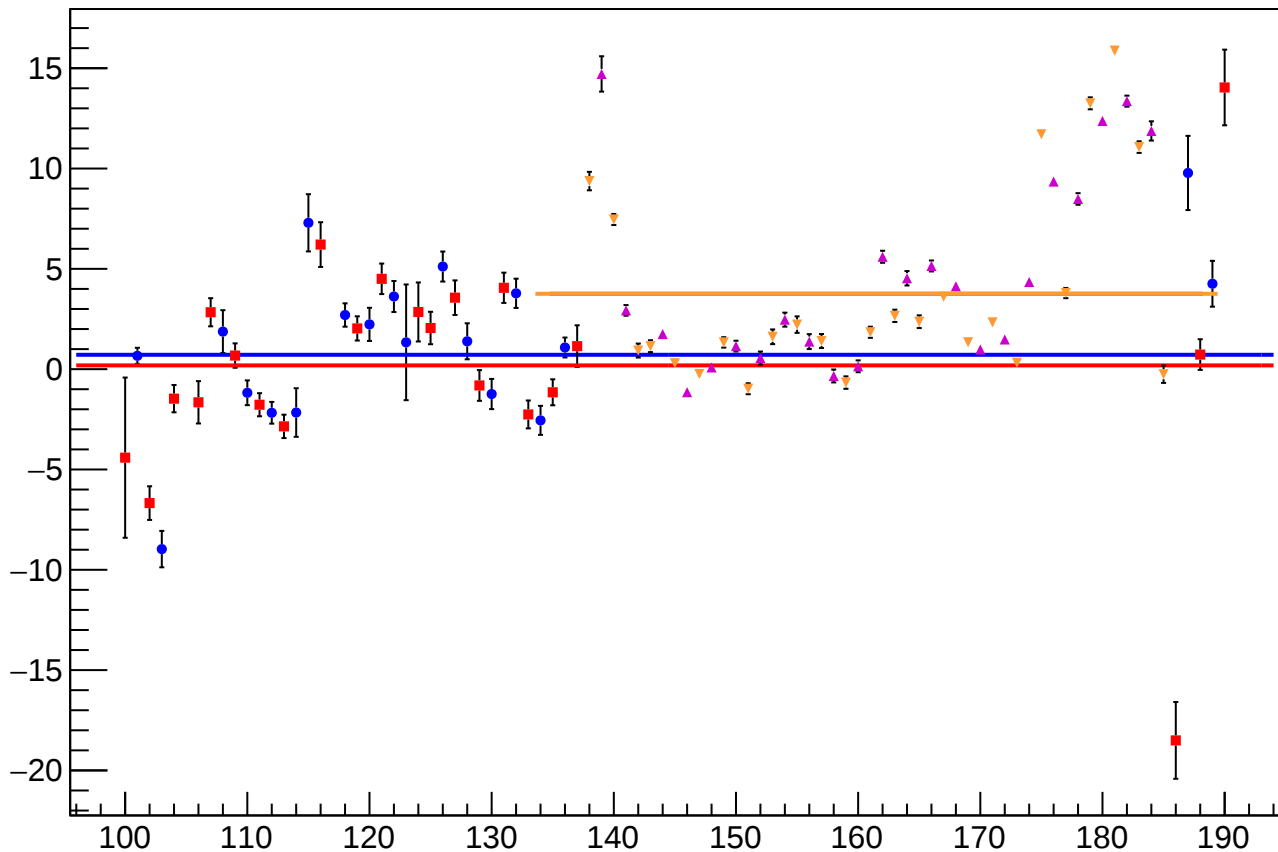
Right: 7.391+/-0.408 χ^2/NDF : 981.6/4

In: -11.528+/-0.071 χ^2/NDF : 14421.7/24

Out: -11.355+/-0.070 χ^2/NDF : 20145.7/27

All: -11.439+/-0.050 χ^2/NDF : 34570.5/52

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.717 ± 0.168 $\chi^2/\text{NDF}: 323.1/18$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 0.188 ± 0.169 $\chi^2/\text{NDF}: 421.0/21$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

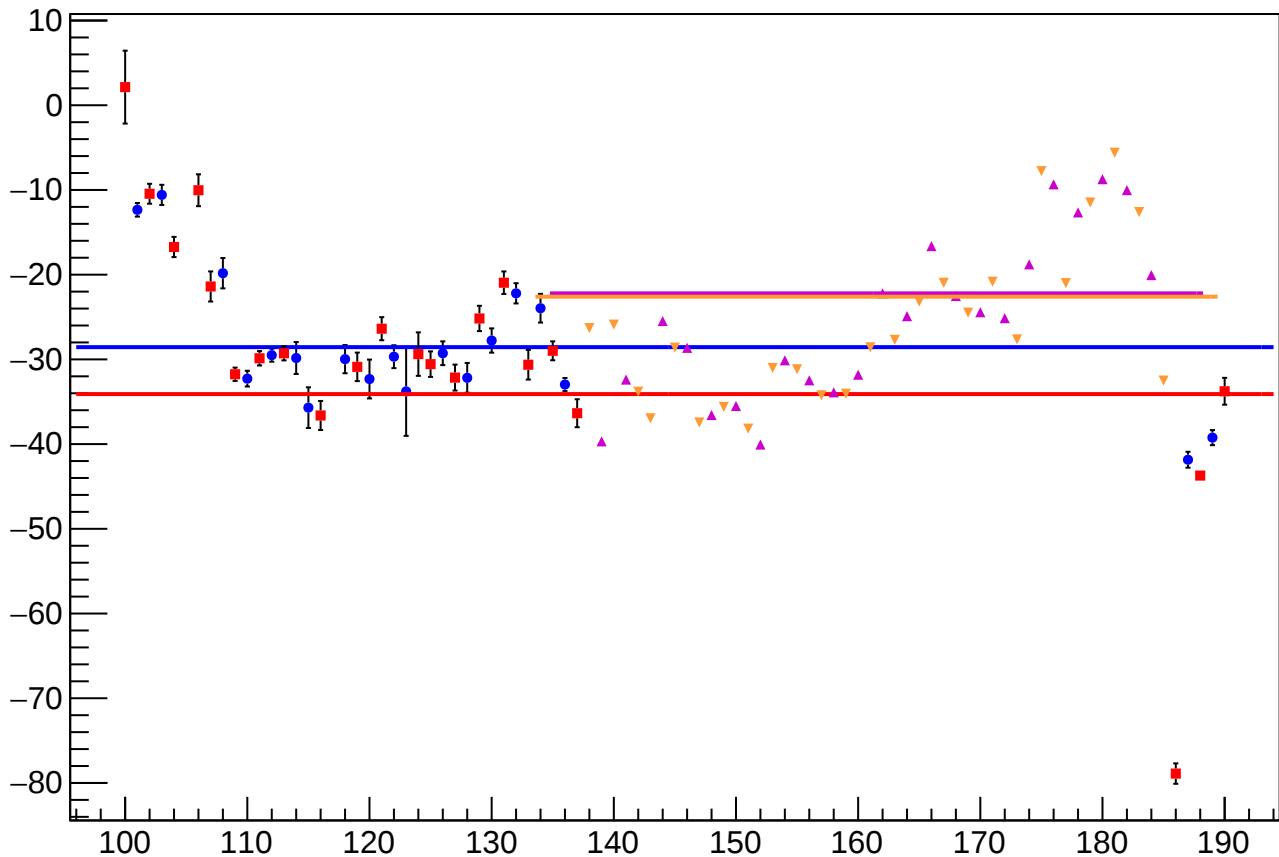
Right: 0.454 ± 0.119 $\chi^2/\text{NDF}: 749.1/40$

In: 3.447 ± 0.054 $\chi^2/\text{NDF}: 6247.0/41$

Out: 3.409 ± 0.053 $\chi^2/\text{NDF}: 8273.8/46$

All: 3.428 ± 0.038 $\chi^2/\text{NDF}: 14521.0/88$

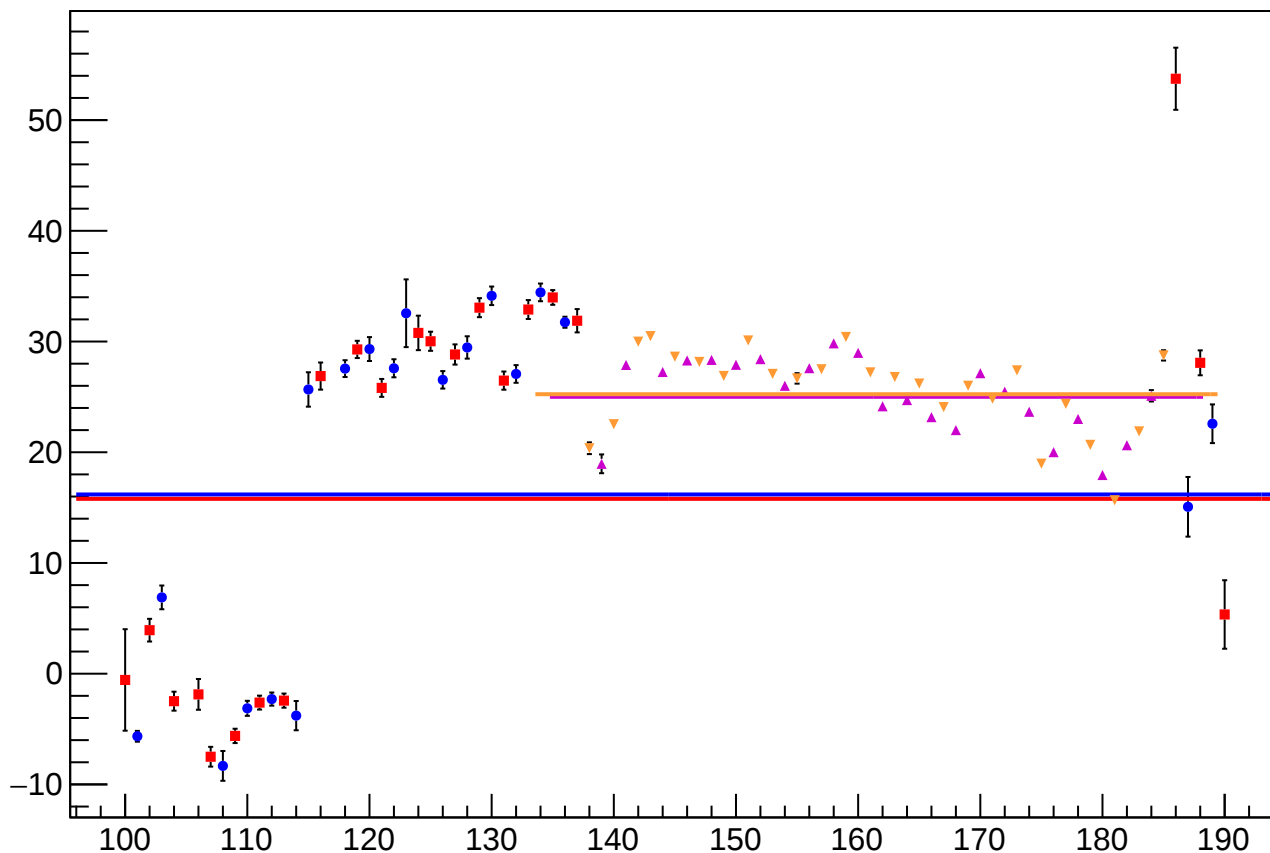
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.554 ± 0.273 $\chi^2/\text{NDF}: 1109.2/18$
 Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$
 Right Out: -34.095 ± 0.238 $\chi^2/\text{NDF}: 3051.2/21$
 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: -31.701 ± 0.179 $\chi^2/\text{NDF}: 4394.7/40$
 In: -22.618 ± 0.069 $\chi^2/\text{NDF}: 19242.7/41$
 Out: -23.531 ± 0.068 $\chi^2/\text{NDF}: 25130.4/46$
 All: -23.084 ± 0.048 $\chi^2/\text{NDF}: 44461.8/88$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.187 $\pm$ 0.191 χ^2 /NDF: 7555.8/18

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.791 $\pm$ 0.194 χ^2 /NDF: 7582.0/21

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

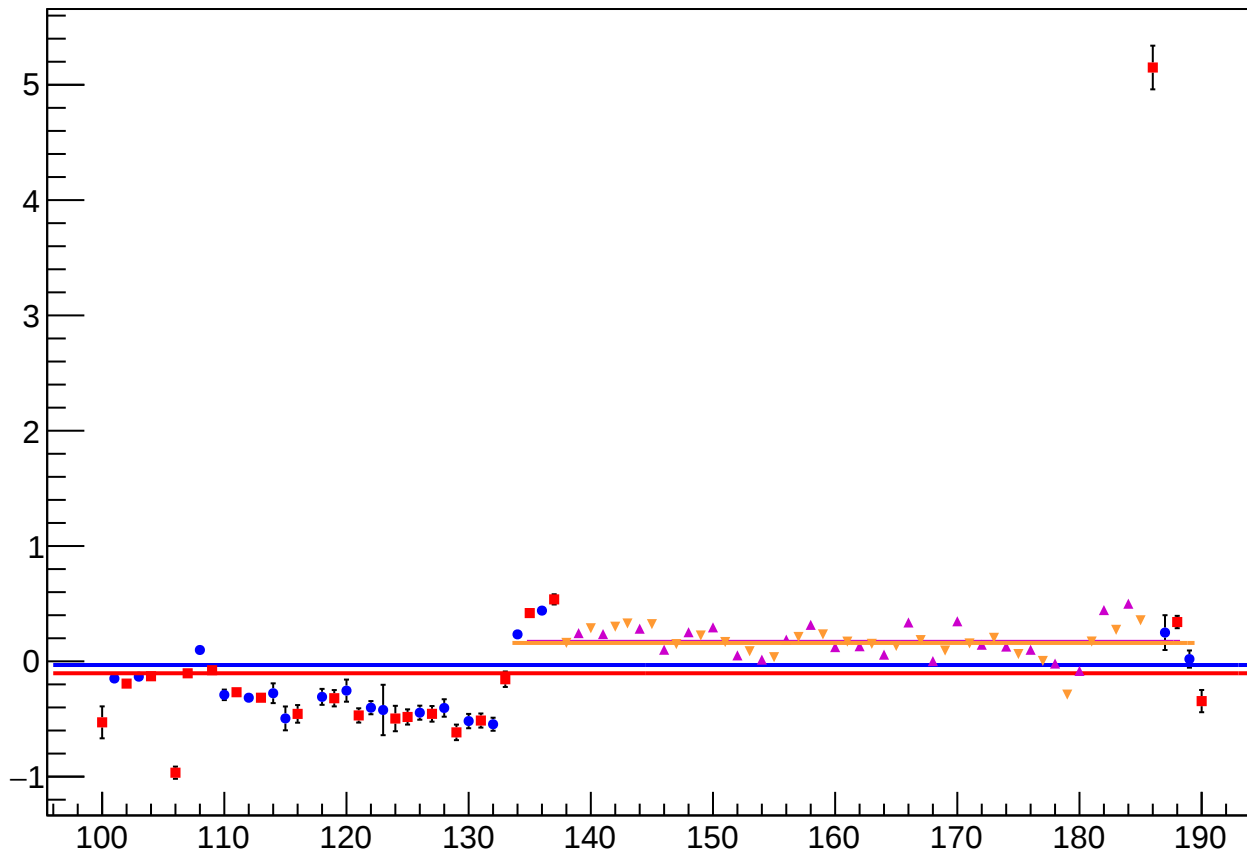
Right: 15.992 $\pm$ 0.136 χ^2 /NDF: 15139.8/40

In: 24.120 $\pm$ 0.061 χ^2 /NDF:12201.1/41

Out: 24.346 $\pm$ 0.060 χ^2 /NDF:13526.5/46

All: 24.235 $\pm$ 0.042 χ^2 /NDF: 25734.7/88

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.032 ± 0.010 χ^2/NDF : 1015.4/18

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.103 ± 0.010 χ^2/NDF : 2013.0/21

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

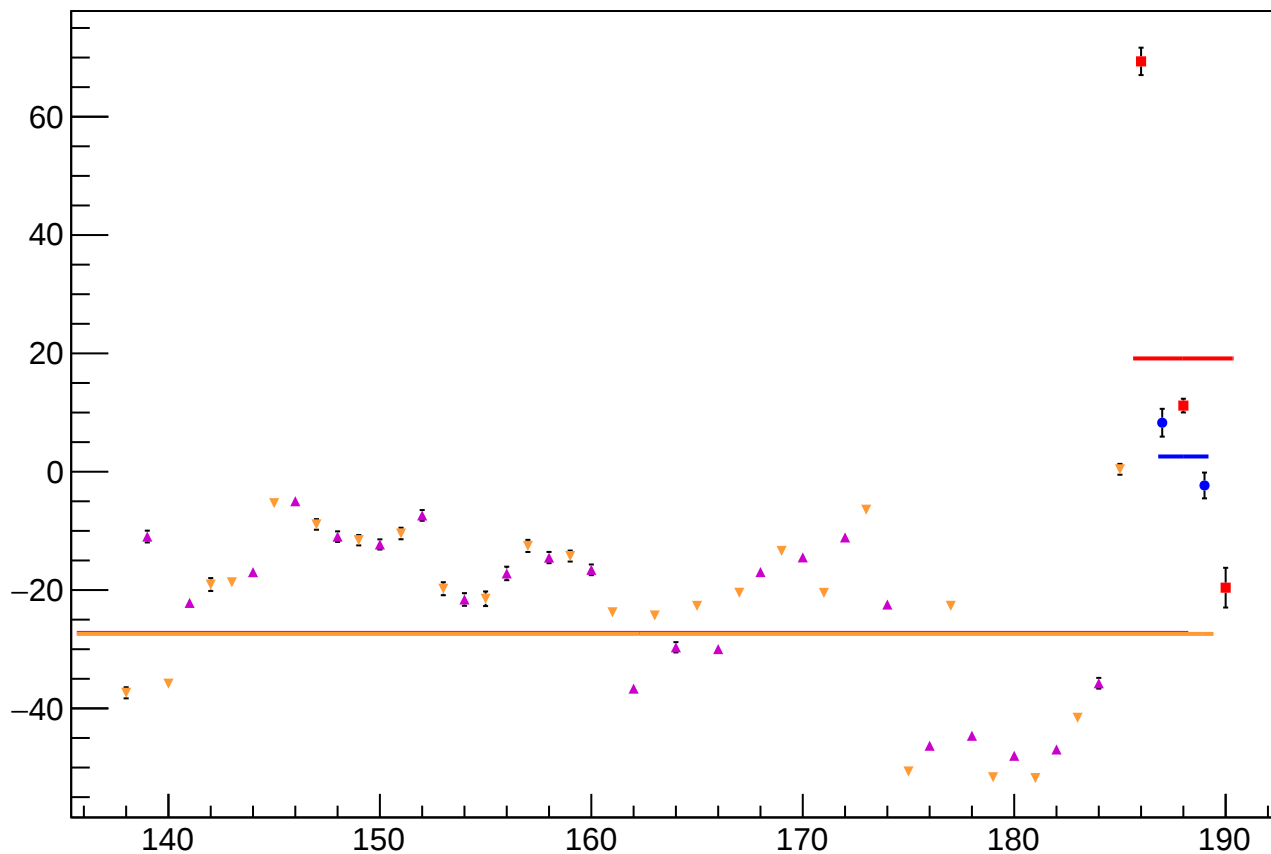
Right: -0.068 ± 0.007 χ^2/NDF : 3053.1/40

In: 0.154 ± 0.003 χ^2/NDF : 3791.4/41

Out: 0.140 ± 0.003 χ^2/NDF : 4501.1/46

All: 0.147 ± 0.002 χ^2/NDF : 8305.1/88

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.575+/-1.598 χ^2/NDF : 11.0/1

Left Out: -27.408+/-0.137 χ^2/NDF :14850.5/24

Right Out: 19.145+/-0.992 χ^2/NDF : 649.6/2

Left In: -27.243+/-0.139 χ^2/NDF :11305.2/22

Left: -27.327+/-0.098 χ^2/NDF : 26156.4/47

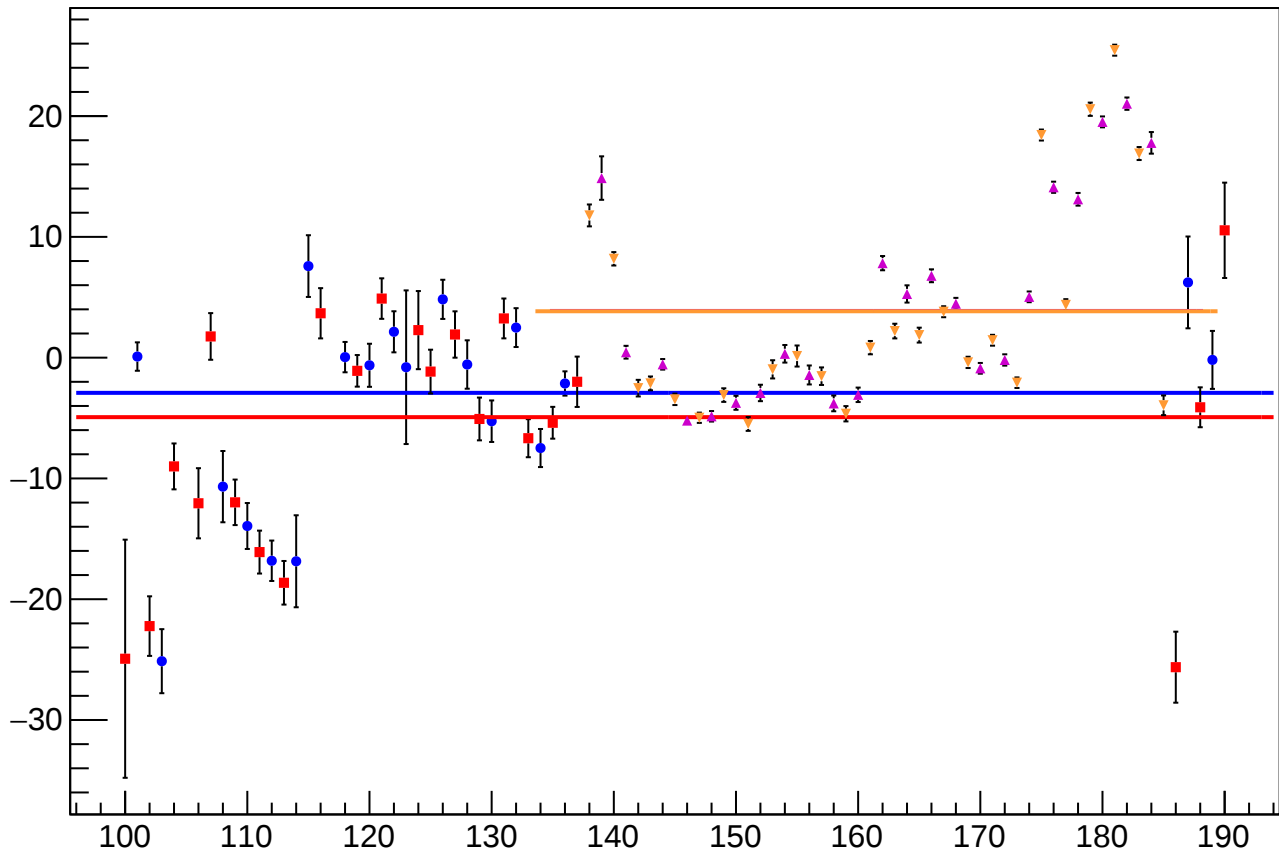
Right: 14.536+/-0.843 χ^2/NDF : 738.2/4

In: -27.018+/-0.139 χ^2/NDF :11661.9/24

Out: -26.538+/-0.136 χ^2/NDF :17662.4/27

All: -26.772+/-0.097 χ^2/NDF : 29330.4/52

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.914 ± 0.403 $\chi^2/\text{NDF}: 286.1/18$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -4.926 ± 0.407 $\chi^2/\text{NDF}: 362.2/21$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

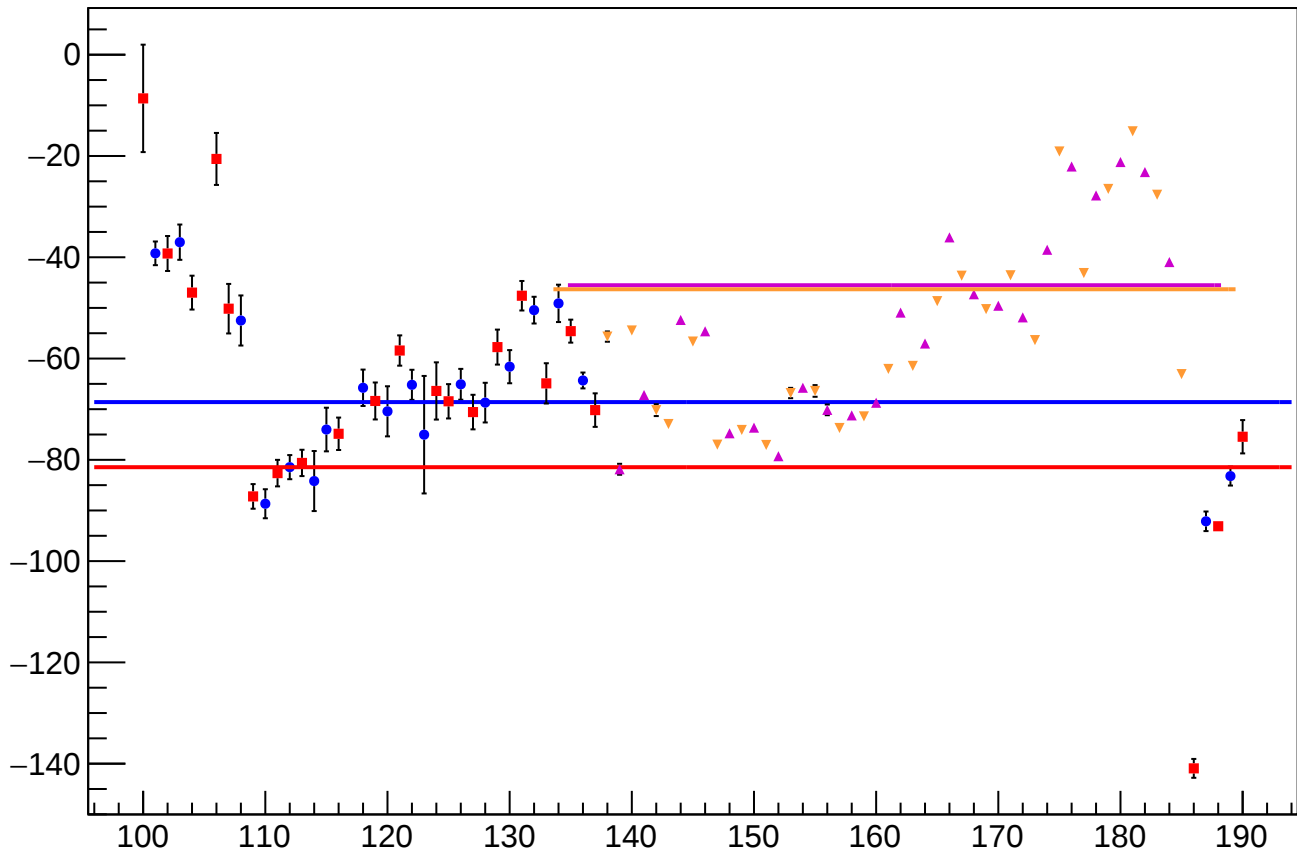
Right: -3.910 ± 0.287 $\chi^2/\text{NDF}: 660.7/40$

In: 3.387 ± 0.107 $\chi^2/\text{NDF}: 5972.6/41$

Out: 3.253 ± 0.106 $\chi^2/\text{NDF}: 7733.7/46$

All: 3.319 ± 0.075 $\chi^2/\text{NDF}: 13707.1/88$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -45.925 ± 0.098 $\chi^2/\text{NDF}: 37676.5/47$

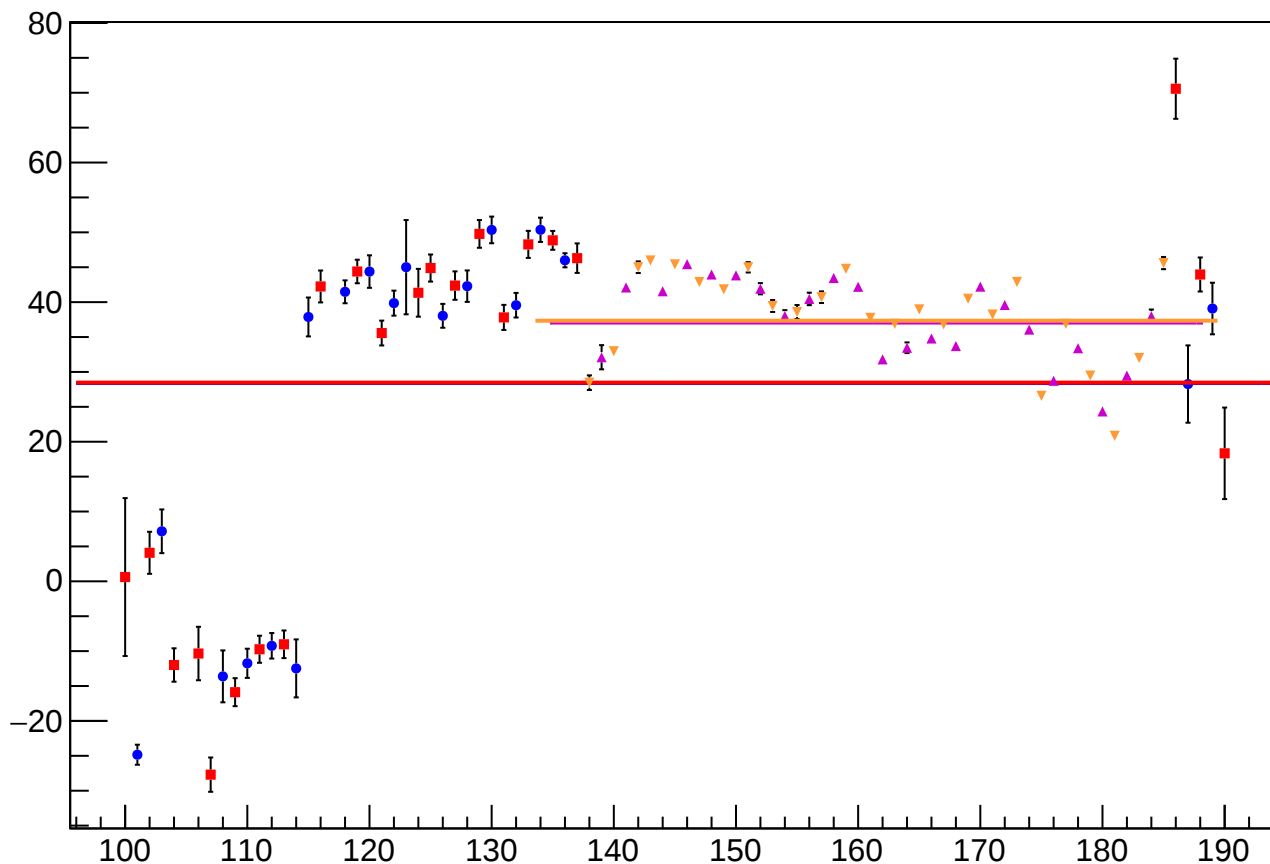
Right: -76.063 ± 0.421 $\chi^2/\text{NDF}: 2992.8/40$

In: -46.543 ± 0.137 $\chi^2/\text{NDF}: 19369.6/41$

Out: -48.384 ± 0.134 $\chi^2/\text{NDF}: 26077.6/46$

All: -47.483 ± 0.096 $\chi^2/\text{NDF}: 45539.9/88$

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.412 ± 0.456 χ^2/NDF : 3319.3/18

Left Out: 37.340 ± 0.123 χ^2/NDF : 3149.1/24

Right Out: 28.467 ± 0.467 χ^2/NDF : 3174.8/21

Left In: 37.074 ± 0.125 χ^2/NDF : 2397.3/22

Left: 37.209 ± 0.088 χ^2/NDF : 5548.7/47

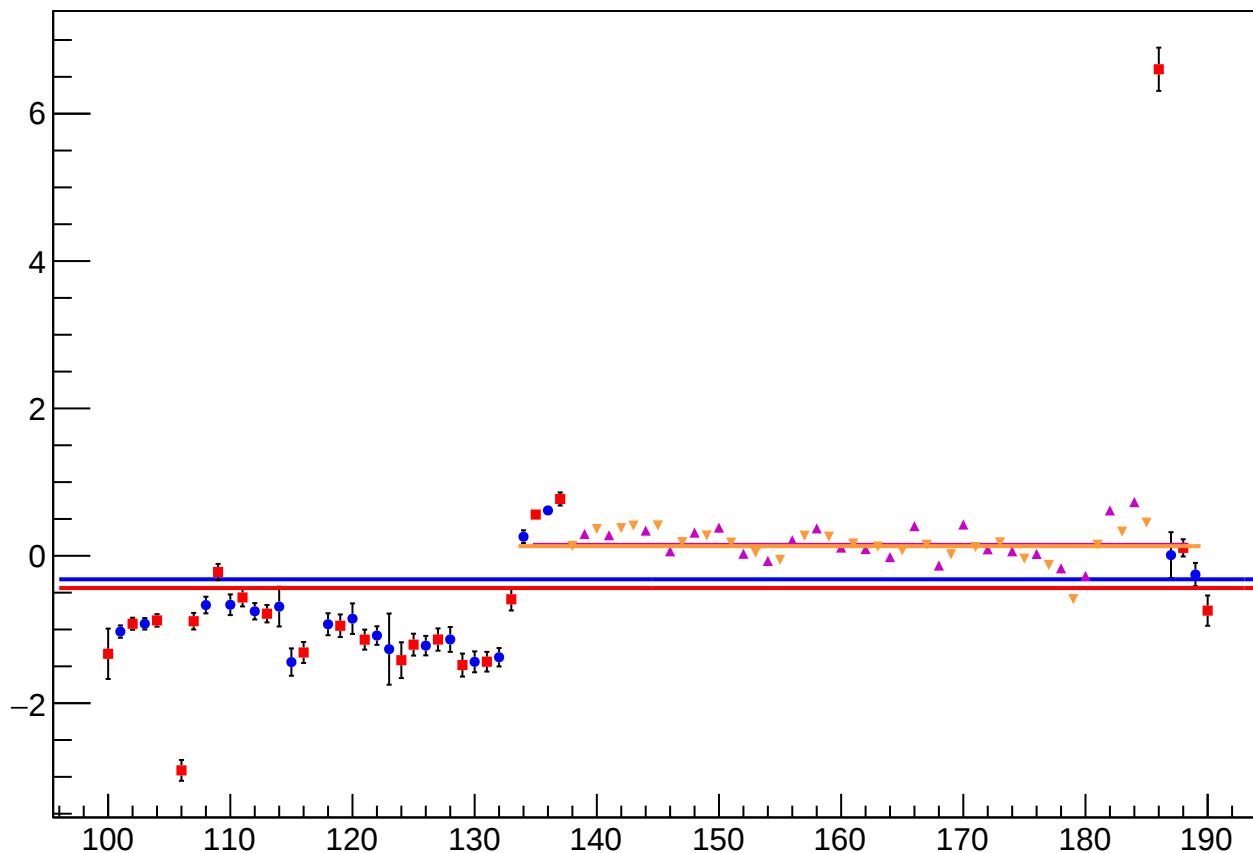
Right: 28.439 ± 0.326 χ^2/NDF : 6494.1/40

In: 36.466 ± 0.121 χ^2/NDF : 6052.5/41

Out: 36.765 ± 0.119 χ^2/NDF : 6662.0/46

All: 36.618 ± 0.085 χ^2/NDF : 12717.6/88

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.319 ± 0.025 $\chi^2/\text{NDF}: 1011.4/18$

Left Out: 0.131 ± 0.006 $\chi^2/\text{NDF}: 1426.3/24$

Right Out: -0.438 ± 0.025 $\chi^2/\text{NDF}: 1768.4/21$

Left In: 0.149 ± 0.006 $\chi^2/\text{NDF}: 1803.6/22$

Left: 0.140 ± 0.004 $\chi^2/\text{NDF}: 3234.6/47$

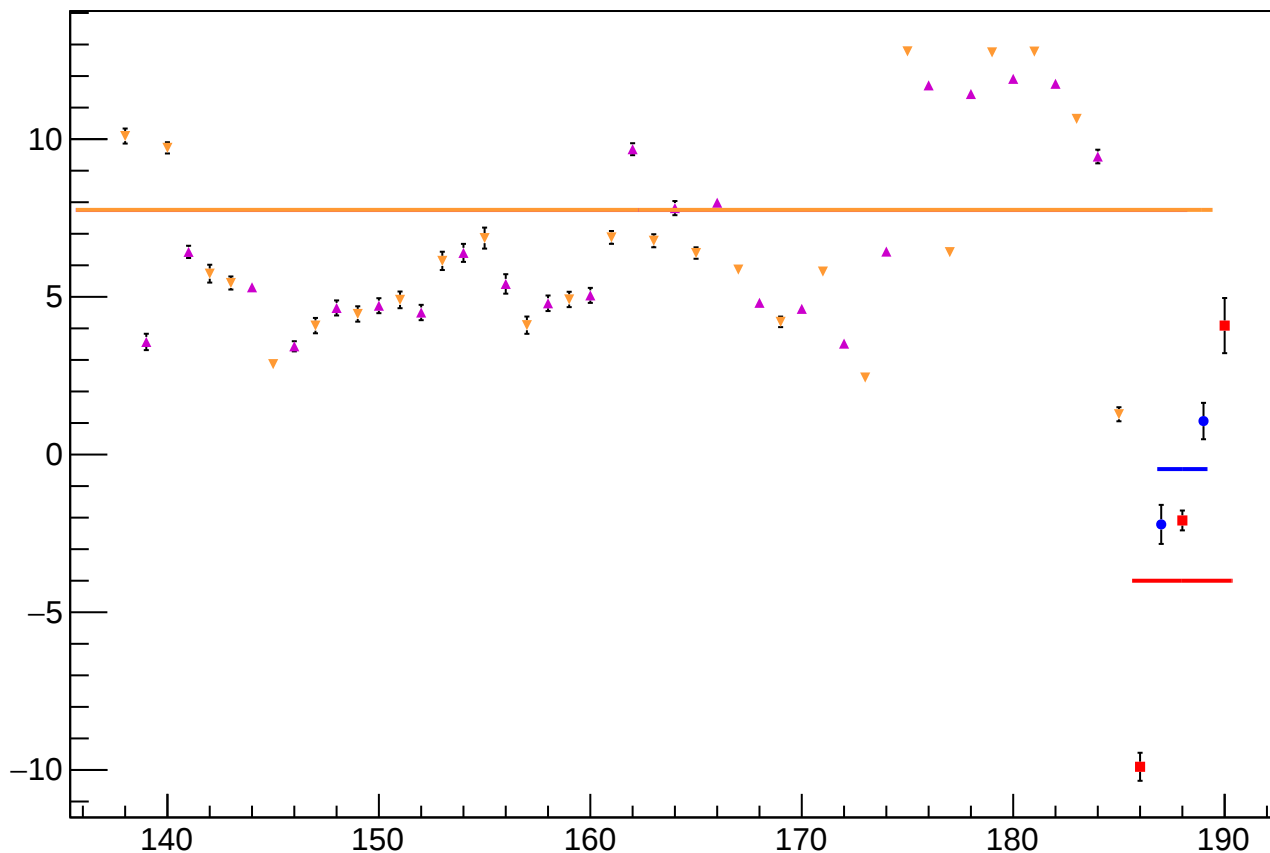
Right: -0.377 ± 0.017 $\chi^2/\text{NDF}: 2791.3/40$

In: 0.125 ± 0.006 $\chi^2/\text{NDF}: 3157.6/41$

Out: 0.104 ± 0.005 $\chi^2/\text{NDF}: 3691.1/46$

All: 0.114 ± 0.004 $\chi^2/\text{NDF}: 6855.8/88$

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.461 ± 0.422 χ^2/NDF : 15.0/1

Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24

Right Out: -4.000 ± 0.246 χ^2/NDF : 298.8/2

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

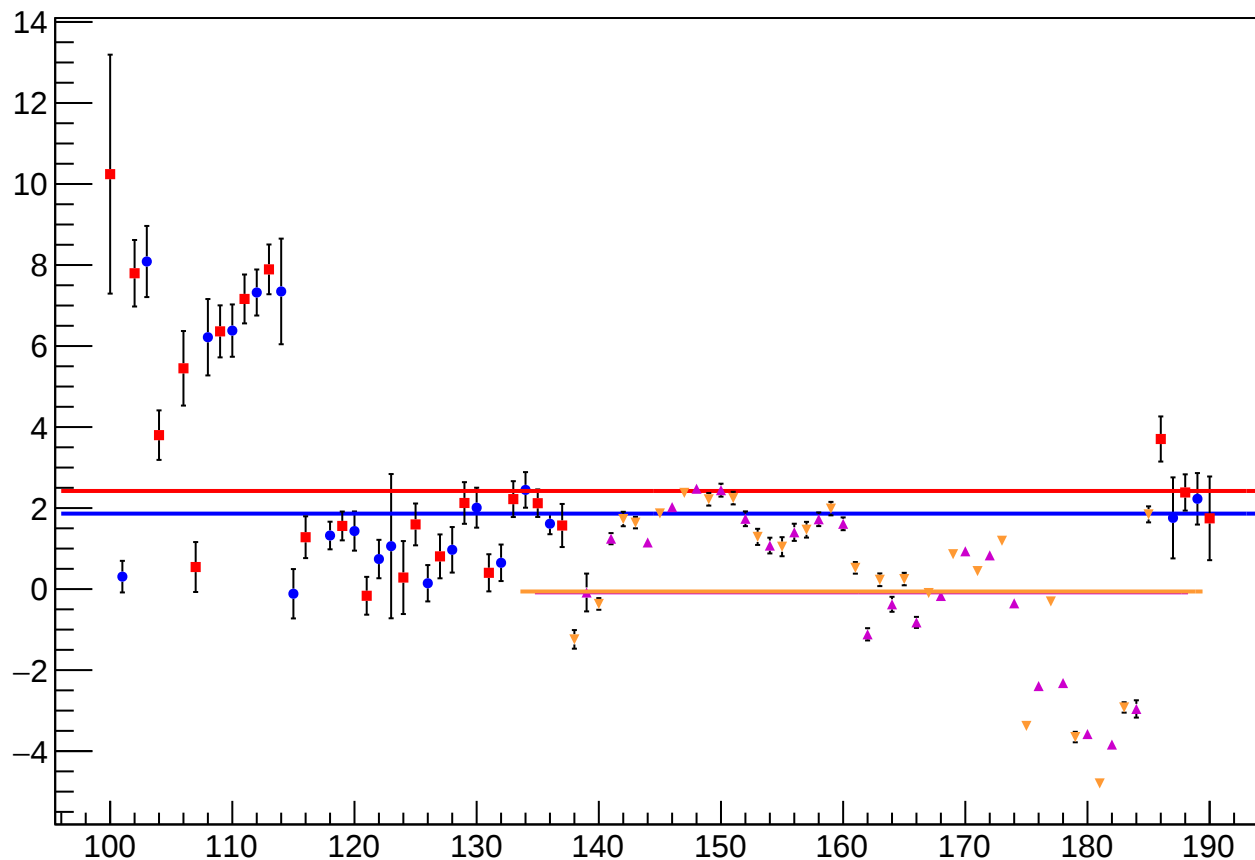
Right: -3.101 ± 0.213 χ^2/NDF : 366.3/4

In: 7.696 ± 0.035 χ^2/NDF : 8736.5/24

Out: 7.533 ± 0.034 χ^2/NDF : 14262.0/27

All: 7.613 ± 0.024 χ^2/NDF : 23009.6/52

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.863 ± 0.115 χ^2/NDF : 293.6/18

Left Out: -0.059 ± 0.028 χ^2/NDF : 6068.8/24

Right Out: 2.422 ± 0.115 χ^2/NDF : 341.4/21

Left In: -0.080 ± 0.028 χ^2/NDF : 4979.5/22

Left: -0.070 ± 0.020 χ^2/NDF : 11048.5/47

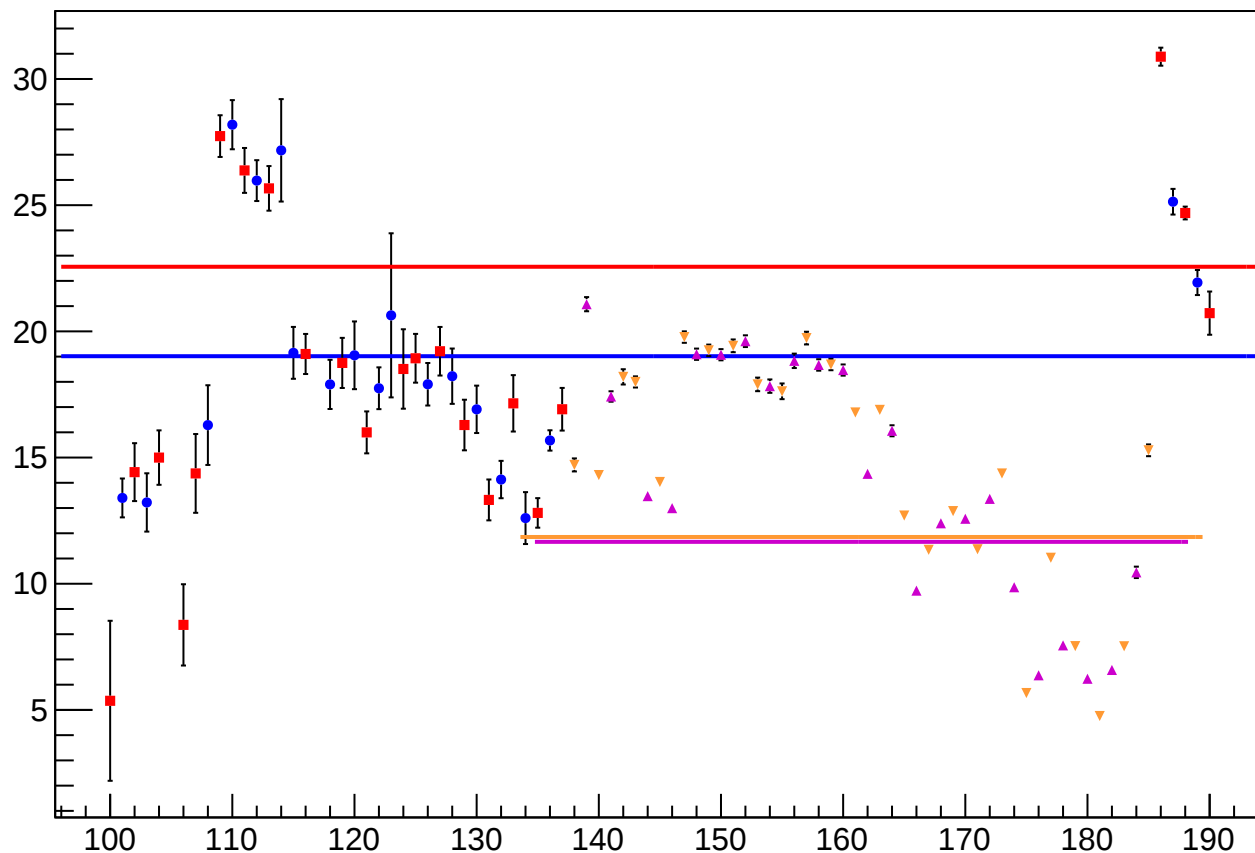
Right: 2.141 ± 0.081 χ^2/NDF : 646.9/40

In: 0.031 ± 0.027 χ^2/NDF : 5544.2/41

Out: 0.077 ± 0.027 χ^2/NDF : 6849.8/46

All: 0.054 ± 0.019 χ^2/NDF : 12395.4/88

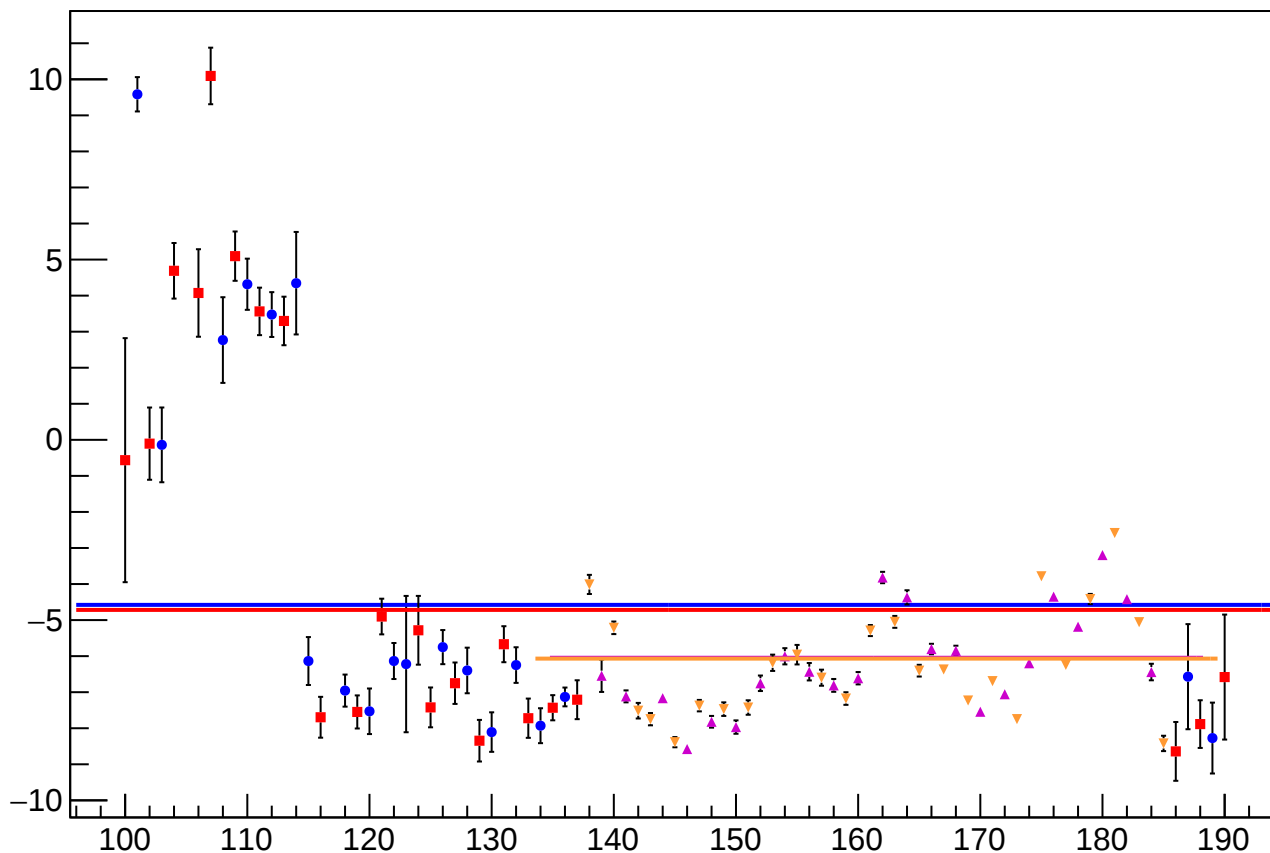
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.016 $\pm$ 0.183 χ^2 /NDF: 601.8/18
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 22.560 $\pm$ 0.148 χ^2 /NDF: 1566.7/21
 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: 21.152 $\pm$ 0.115 χ^2 /NDF: 2395.5/40
 In: 11.923 $\pm$ 0.035 χ^2 /NDF:18876.8/41
 Out: 12.408 $\pm$ 0.034 χ^2 /NDF:25661.2/46
 All: 12.171 $\pm$ 0.024 χ^2 /NDF: 44638.8/88

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.578 ± 0.129 $\chi^2/\text{NDF}: 1599.2/18$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.717 ± 0.132 $\chi^2/\text{NDF}: 1391.3/21$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

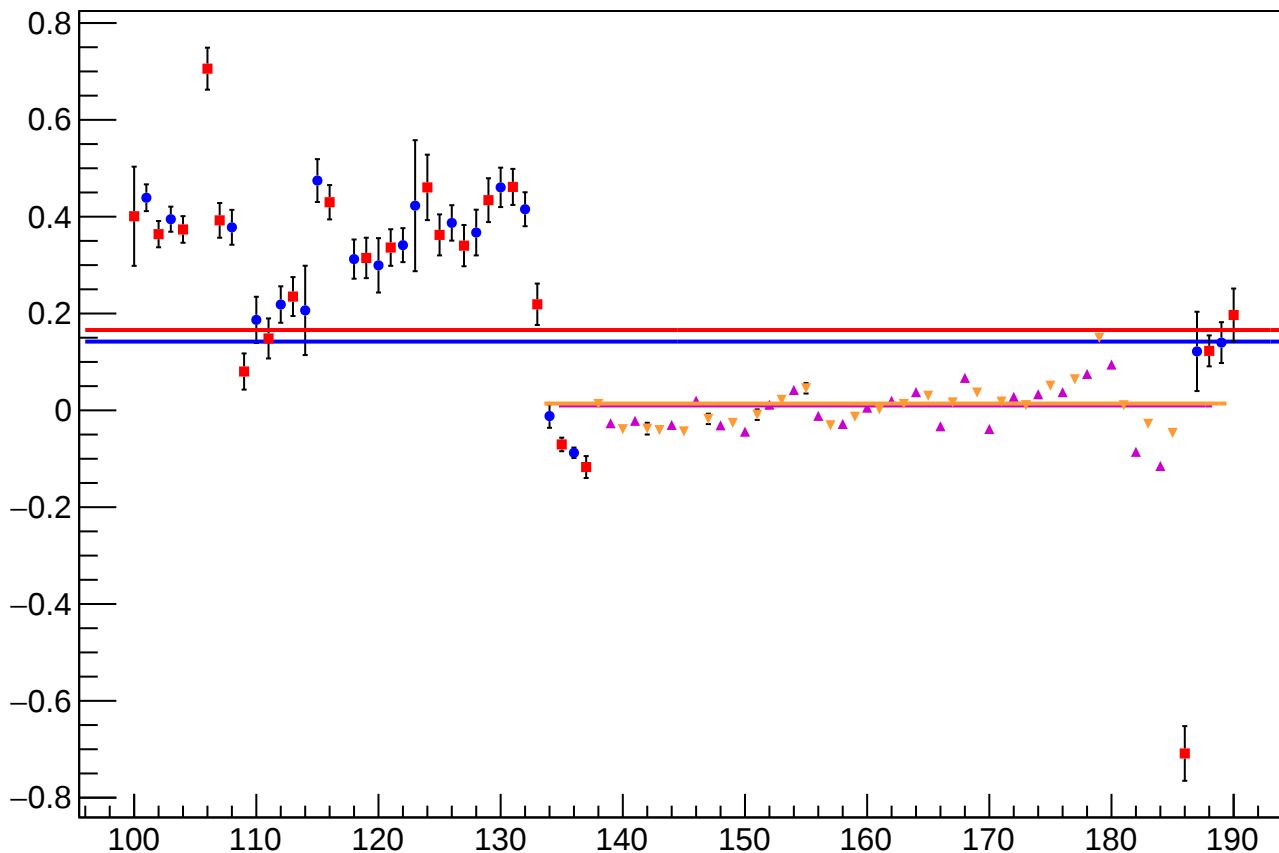
Right: -4.646 ± 0.092 $\chi^2/\text{NDF}: 2991.1/40$

In: -5.961 ± 0.031 $\chi^2/\text{NDF}: 4015.0/41$

Out: -5.997 ± 0.030 $\chi^2/\text{NDF}: 4162.0/46$

All: -5.980 ± 0.022 $\chi^2/\text{NDF}: 8177.7/88$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.007 χ^2 /NDF: 1057.8/18

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF:956.2/24

Right Out: 0.166 $\pm$ 0.007 χ^2 /NDF: 1246.2/21

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

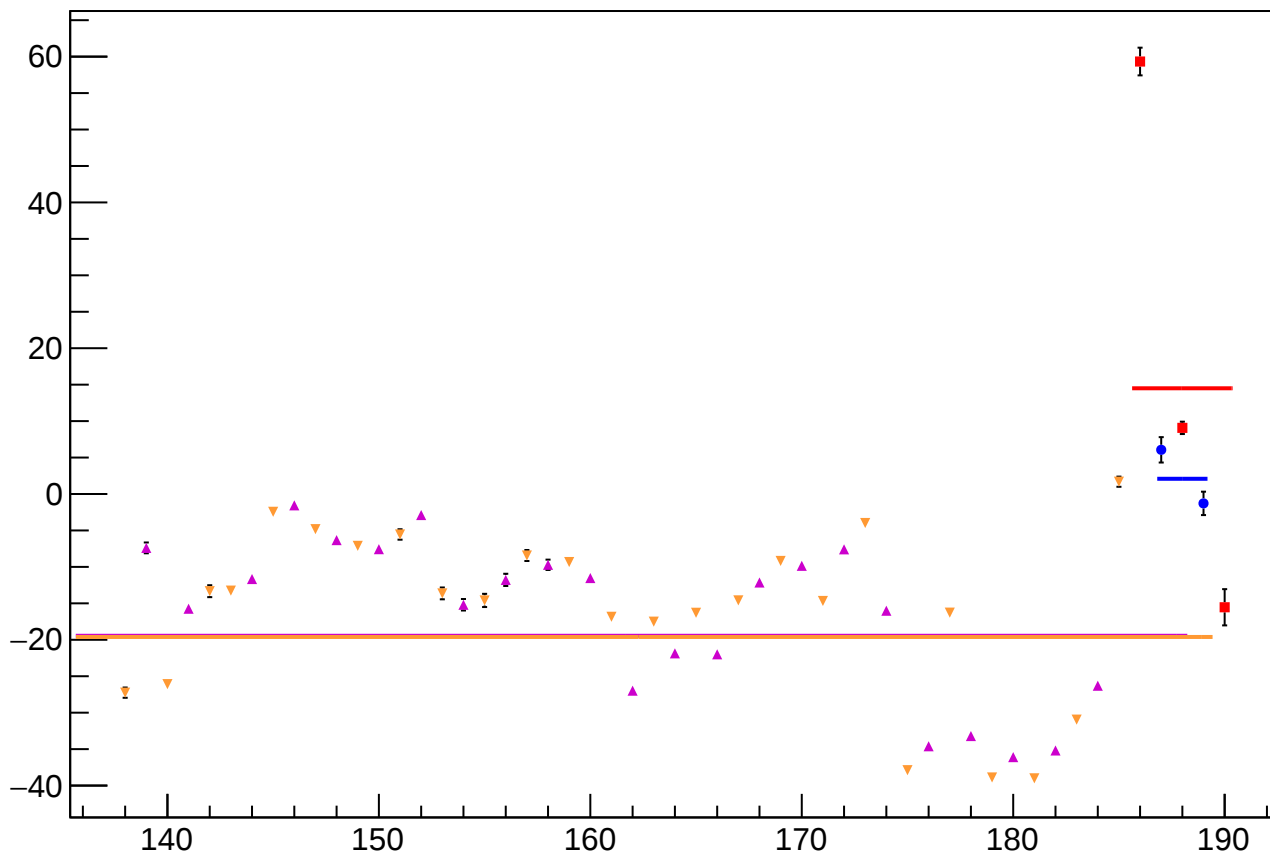
Right: 0.154 $\pm$ 0.005 χ^2 /NDF: 2309.8/40

In: 0.016 $\pm$ 0.001 χ^2 /NDF:2619.0/41

Out: 0.020 $\pm$ 0.001 χ^2 /NDF:2641.8/46

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5265.4/88

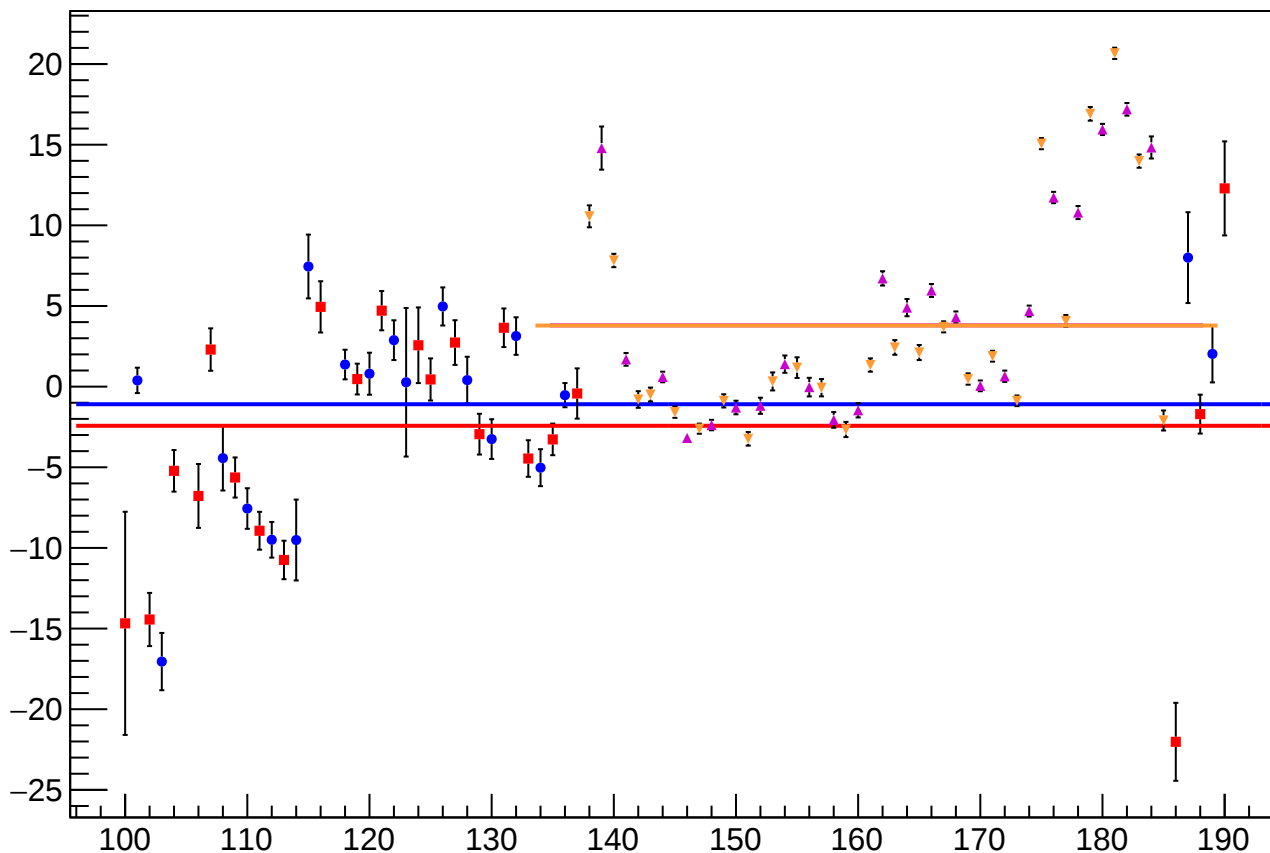
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.088+/-1.180 χ^2/NDF : 9.6/1
 Left Out: -19.612+/-0.103 χ^2/NDF :15761.3/24
 Right Out: 14.502+/-0.739 χ^2/NDF : 743.3/2
 Left In: -19.450+/-0.105 χ^2/NDF :12283.1/22

Left: -19.533+/-0.074 χ^2/NDF : 28045.6/47
 Right: 11.004+/-0.627 χ^2/NDF : 832.3/4
 In: -19.281+/-0.105 χ^2/NDF :12623.1/24
 Out: -18.960+/-0.102 χ^2/NDF :18592.6/27
 All: -19.117+/-0.073 χ^2/NDF : 31220.5/52

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.091 ± 0.287 $\chi^2/\text{NDF}: 290.4/18$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: -2.428 ± 0.290 $\chi^2/\text{NDF}: 376.1/21$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

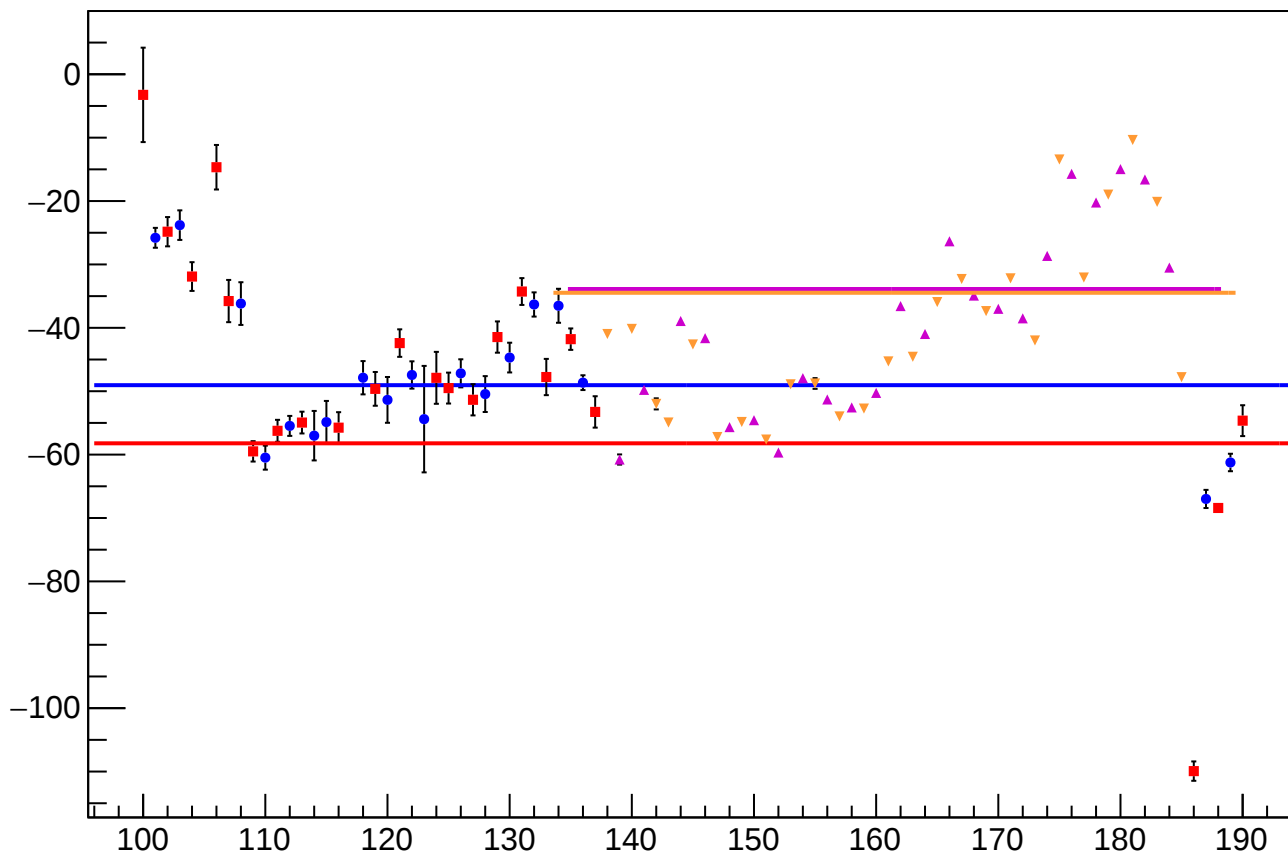
Right: -1.753 ± 0.204 $\chi^2/\text{NDF}: 677.3/40$

In: 3.417 ± 0.080 $\chi^2/\text{NDF}: 6074.3/41$

Out: 3.327 ± 0.079 $\chi^2/\text{NDF}: 7951.8/46$

All: 3.372 ± 0.056 $\chi^2/\text{NDF}: 14026.7/88$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -49.047 ± 0.464 χ^2/NDF : 719.3/18
 Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24
 Right Out: -58.219 ± 0.398 χ^2/NDF : 2350.5/21
 Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

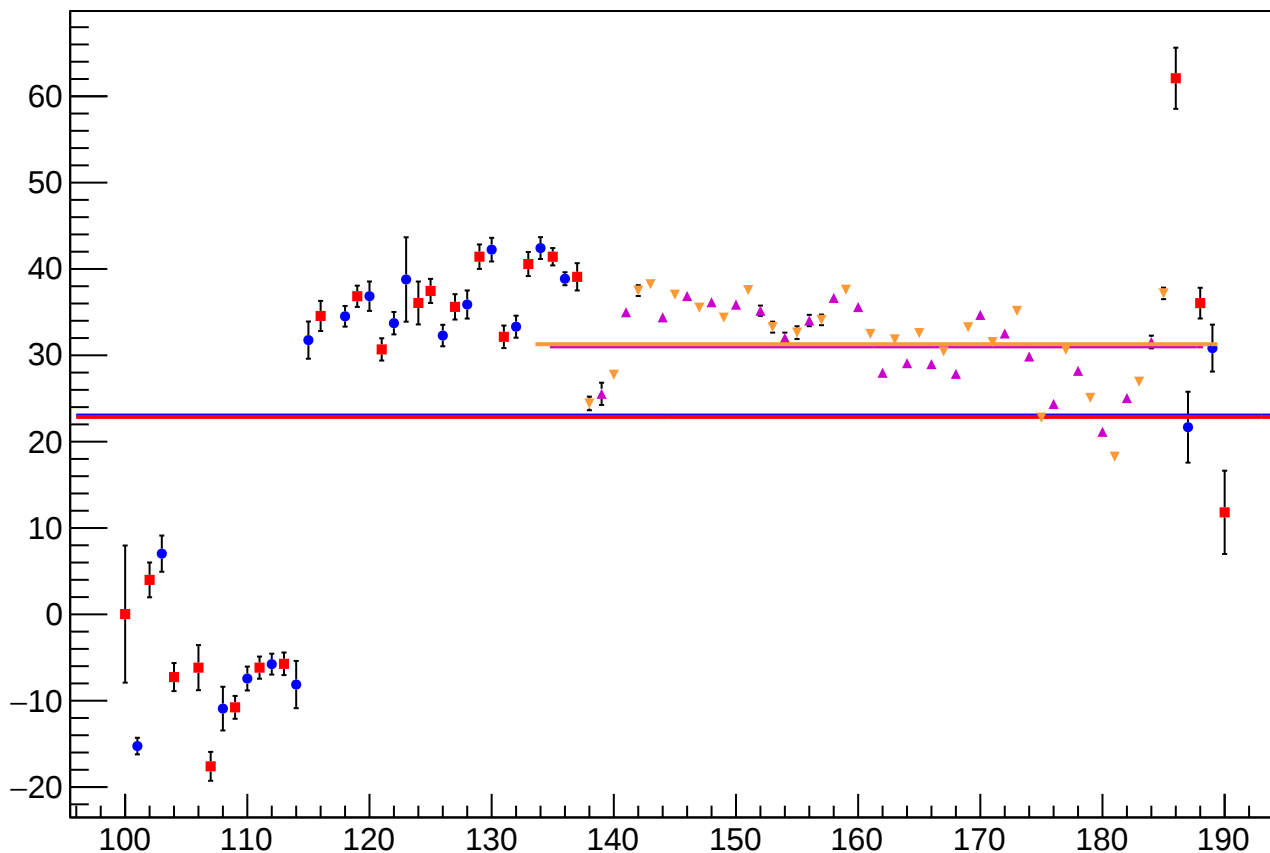
Right: -54.329 ± 0.302 χ^2/NDF : 3294.6/40

In: -34.617 ± 0.103 χ^2/NDF : 19373.9/41

Out: -35.984 ± 0.101 χ^2/NDF : 25873.2/46

All: -35.315 ± 0.072 χ^2/NDF : 45337.5/88

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 23.023+/-0.325 χ^2 /NDF: 4325.7/18

Left Out: 31.286+/-0.092 χ^2 /NDF:3345.7/24

Right Out: 22.868+/-0.332 χ^2 /NDF: 4217.9/21

Left In: 31.039+/-0.094 χ^2 /NDF:2480.0/22

Left: 31.165+/-0.066 χ^2 /NDF: 5829.2/47

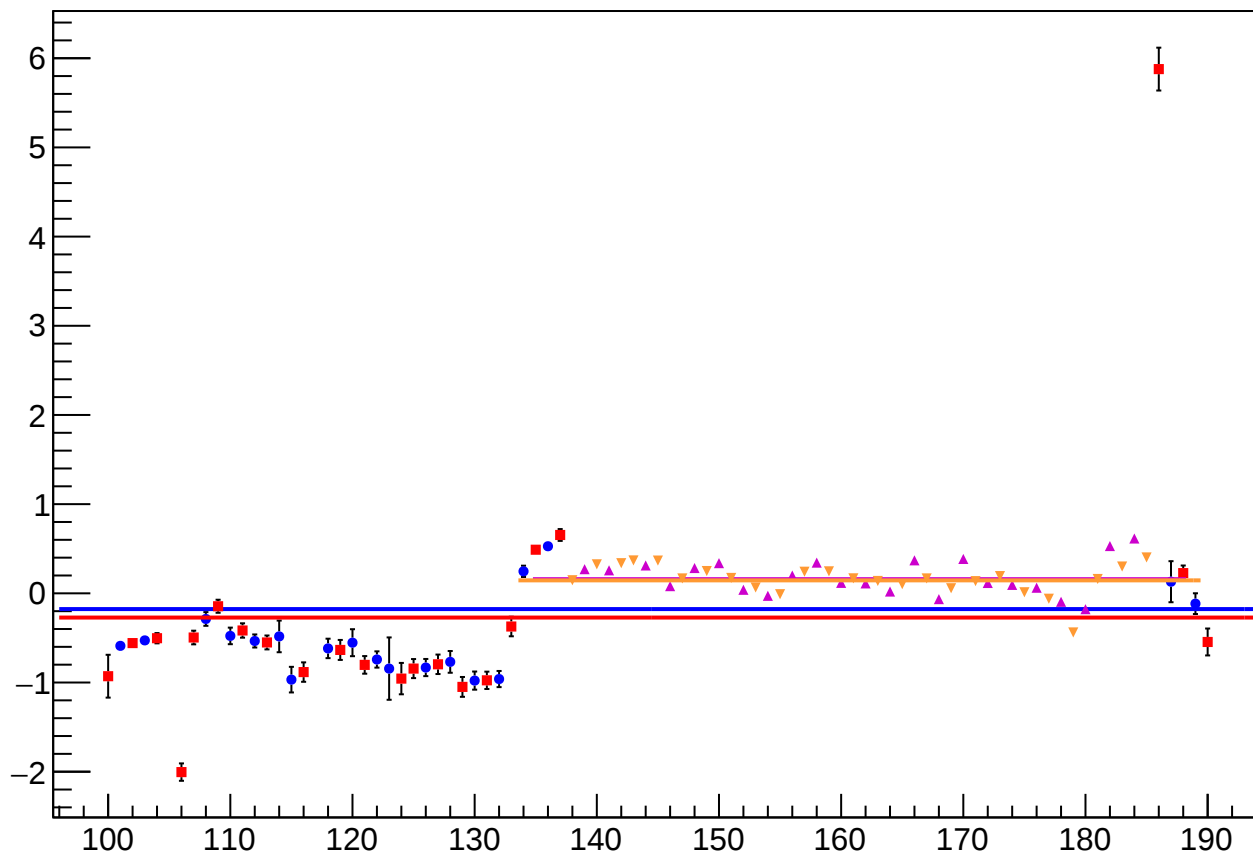
Right: 22.947+/-0.232 χ^2 /NDF: 8543.7/40

In: 30.419+/-0.090 χ^2 /NDF:7366.2/41

Out: 30.682+/-0.089 χ^2 /NDF:8159.6/46

All: 30.552+/-0.063 χ^2 /NDF: 15530.1/88

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.177 ± 0.018 χ^2/NDF : 997.3/18

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.272 ± 0.018 χ^2/NDF : 1875.5/21

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

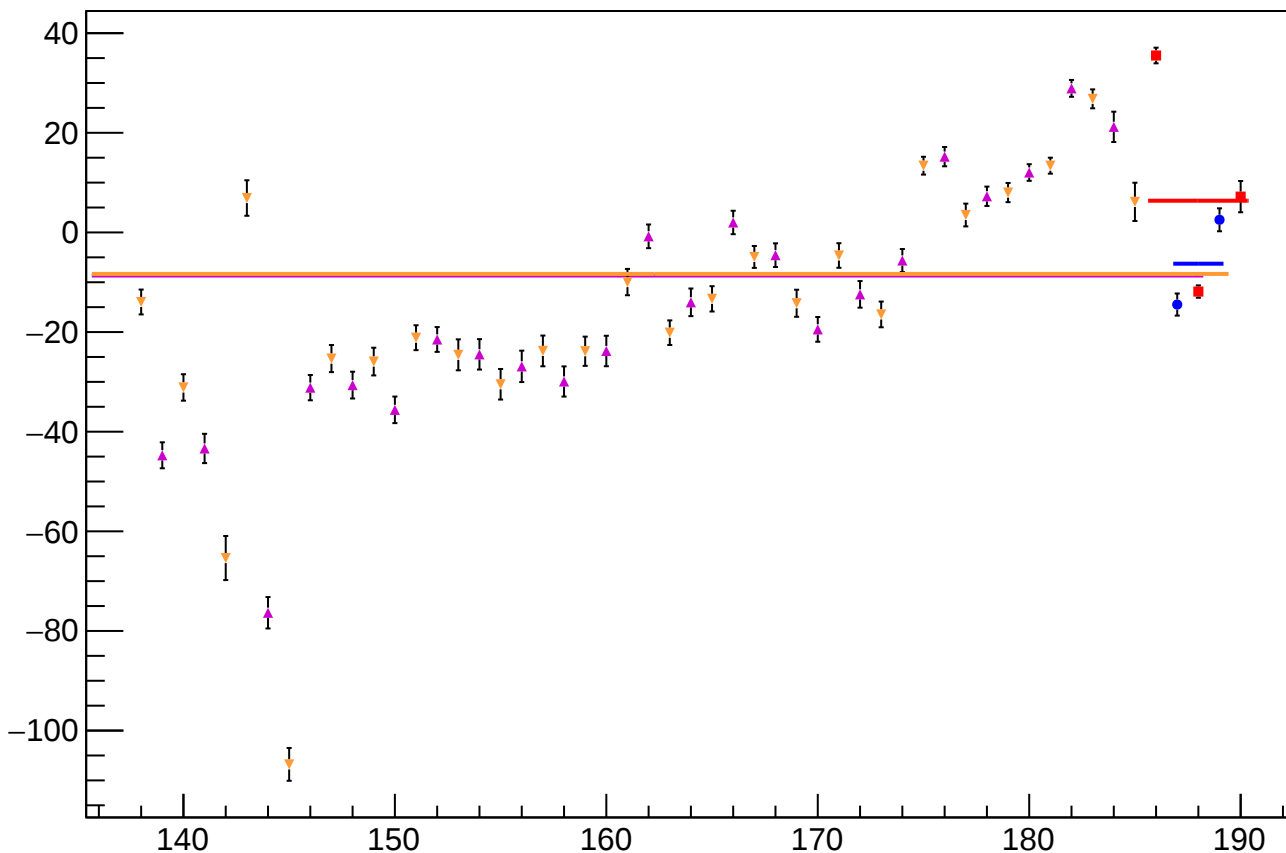
Right: -0.224 ± 0.012 χ^2/NDF : 2887.4/40

In: 0.140 ± 0.004 χ^2/NDF : 3352.4/41

Out: 0.123 ± 0.004 χ^2/NDF : 3983.4/46

All: 0.131 ± 0.003 χ^2/NDF : 7344.2/88

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.277 $\pm$ 1.598 χ^2 /NDF: 28.3/1
 Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF:2226.2/24
 Right Out: 6.368 $\pm$ 0.929 χ^2 /NDF: 561.0/2
 Left In: -8.652 $\pm$ 0.507 χ^2 /NDF:2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

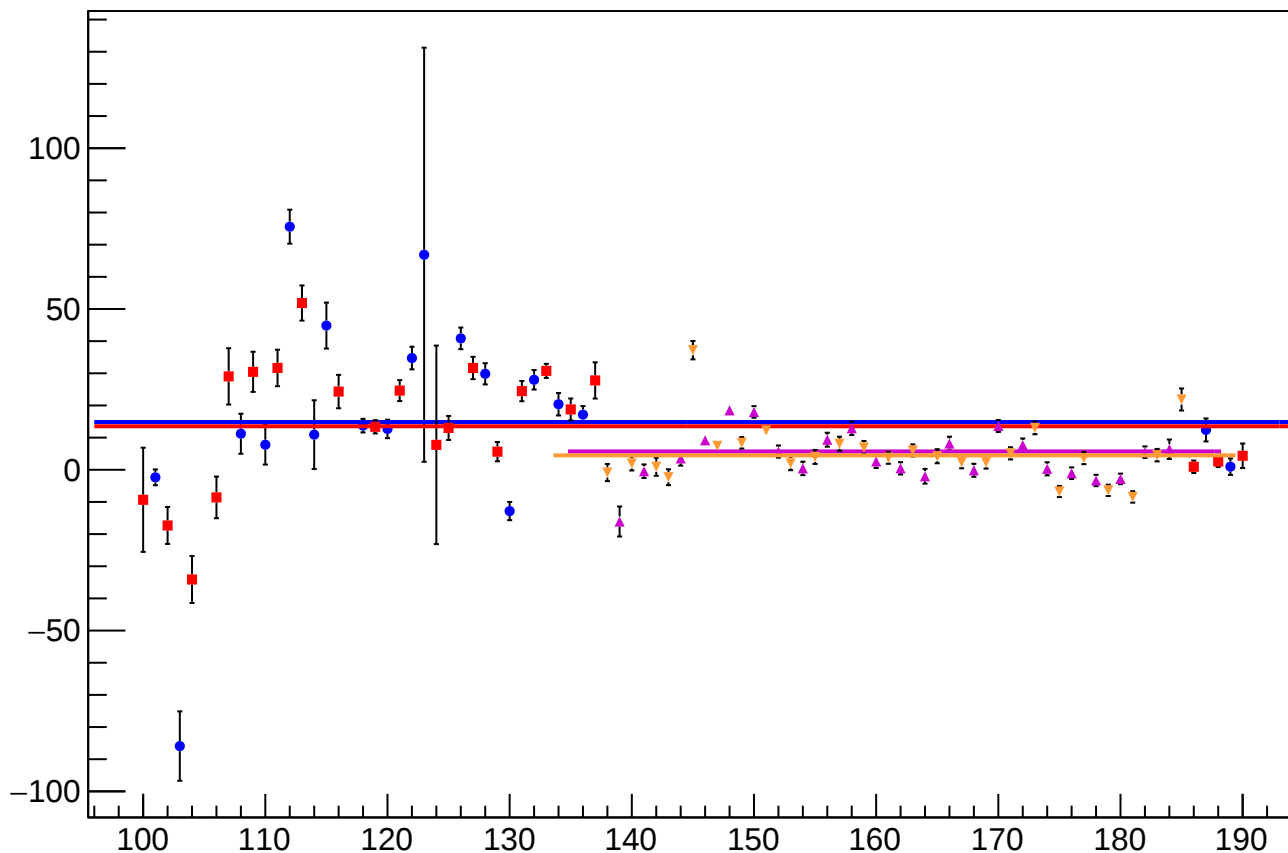
Right: 3.172 $\pm$ 0.803 χ^2 /NDF: 636.1/4

In: -8.434 $\pm$ 0.483 χ^2 /NDF:2254.1/24

Out: -5.035 $\pm$ 0.440 χ^2 /NDF:2981.4/27

All: -6.575 $\pm$ 0.325 χ^2 /NDF: 5262.6/52

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.852 $\pm$ 0.795 χ^2 /NDF: 548.7/18

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 13.531 $\pm$ 0.724 χ^2 /NDF: 375.4/21

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

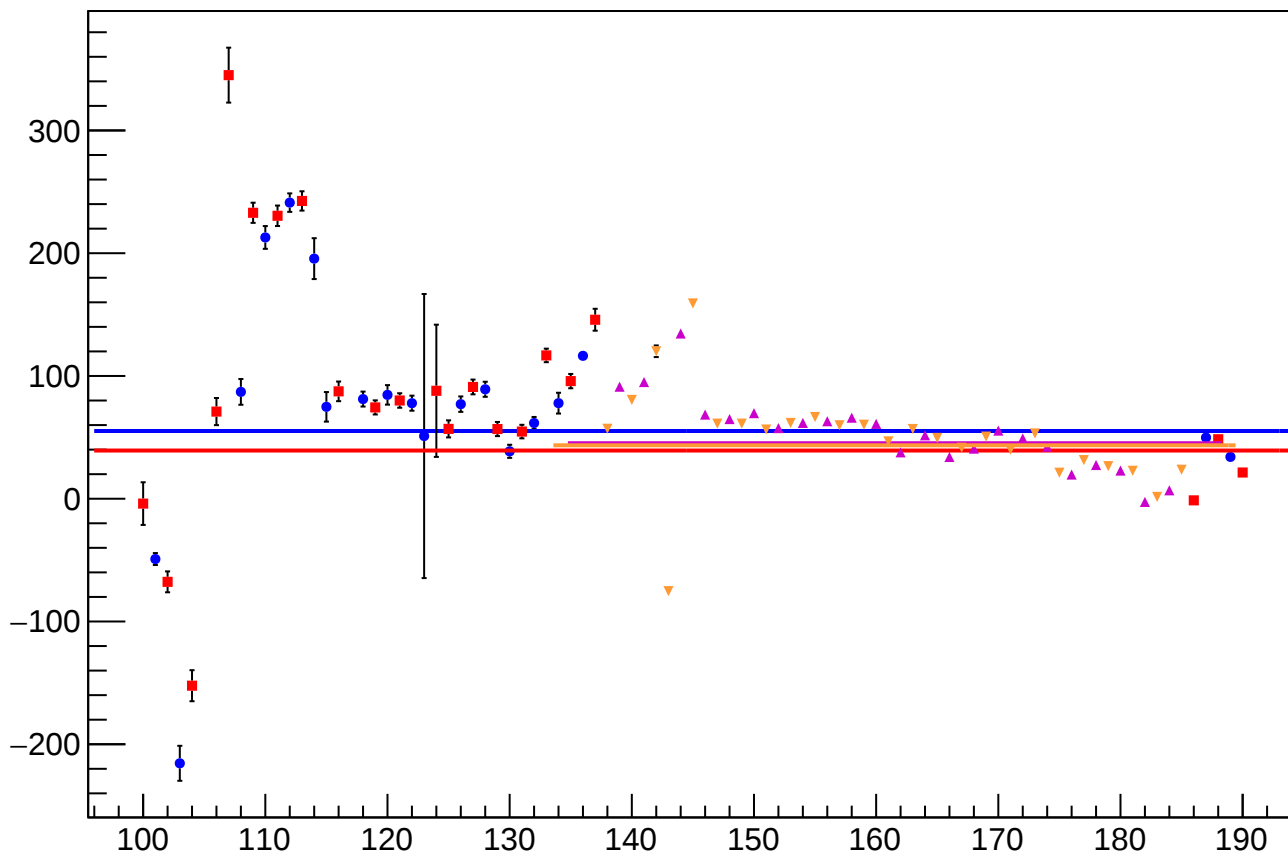
Right: 14.130 $\pm$ 0.535 χ^2 /NDF: 925.6/40

In: 7.584 $\pm$ 0.360 χ^2 /NDF: 978.0/41

Out: 6.537 $\pm$ 0.345 χ^2 /NDF: 868.0/46

All: 7.037 $\pm$ 0.249 χ^2 /NDF: 1850.4/88

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 55.170 $\pm$ 1.035 χ^2 /NDF: 2263.1/18

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF: 3830.7/24

Right Out: 39.264 $\pm$ 0.693 χ^2 /NDF: 4151.8/21

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF: 3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

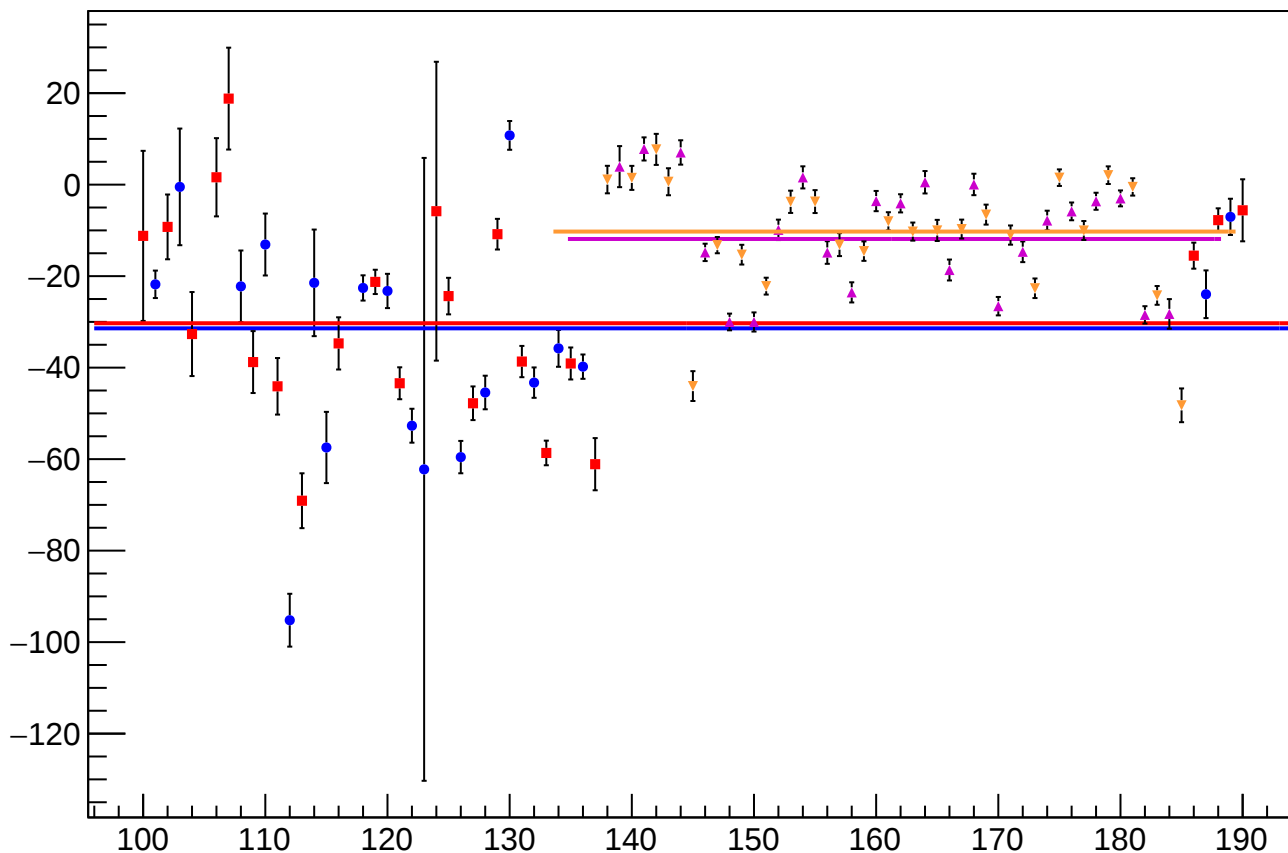
Right: 44.186 $\pm$ 0.575 χ^2 /NDF: 6578.1/40

In: 47.124 $\pm$ 0.453 χ^2 /NDF: 5386.5/41

Out: 42.071 $\pm$ 0.405 χ^2 /NDF: 8007.4/46

All: 44.311 $\pm$ 0.302 χ^2 /NDF: 13463.1/88

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -31.413 $\pm$ 0.939 χ^2/NDF : 528.6/18

Left Out: -10.257 $\pm$ 0.444 χ^2/NDF : 552.4/24

Right Out: -30.296 $\pm$ 0.896 χ^2/NDF : 446.2/21

Left In: -11.877 $\pm$ 0.456 χ^2/NDF : 666.2/22

Left: -11.046 $\pm$ 0.318 χ^2/NDF : 1225.1/47

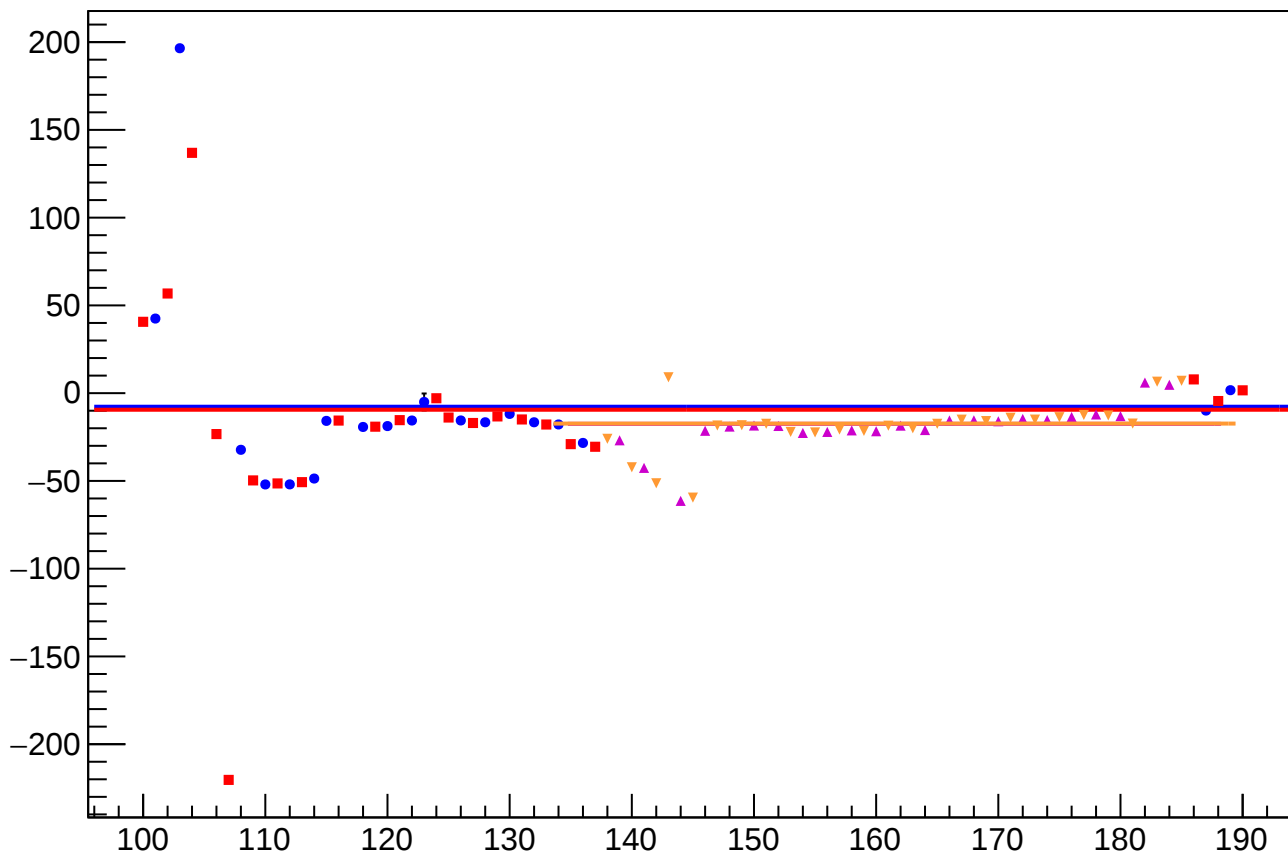
Right: -30.829 $\pm$ 0.648 χ^2/NDF : 975.5/40

In: -15.605 $\pm$ 0.410 χ^2/NDF : 1545.0/41

Out: -14.209 $\pm$ 0.398 χ^2/NDF : 1399.9/46

All: -14.886 $\pm$ 0.286 χ^2/NDF : 2950.9/88

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -7.729 ± 0.055 $\chi^2/\text{NDF}: 578514.6/18$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -9.447 ± 0.052 $\chi^2/\text{NDF}: 573000.2/21$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

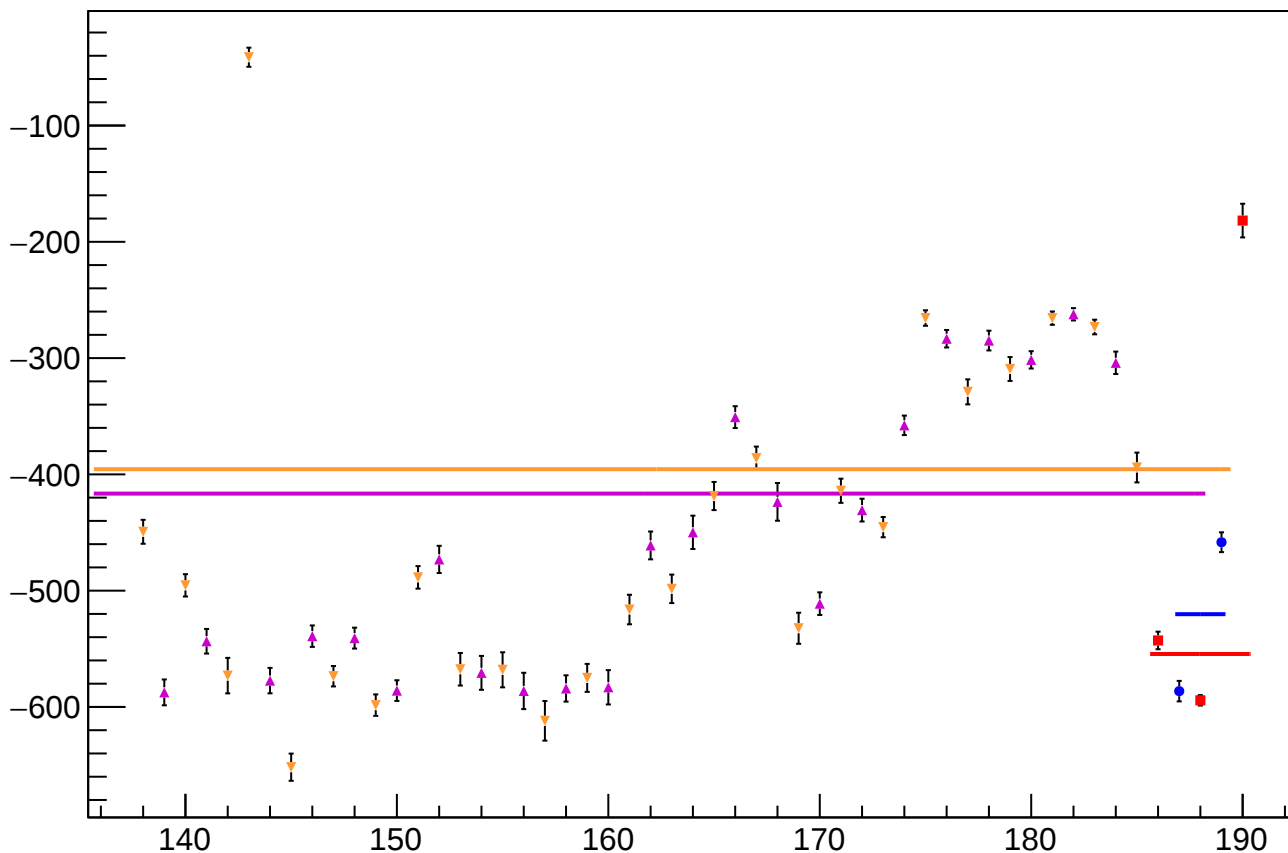
Right: -8.635 ± 0.038 $\chi^2/\text{NDF}: 1152024.5/40$

In: -16.292 ± 0.019 $\chi^2/\text{NDF}: 865101.3/41$

Out: -16.293 ± 0.019 $\chi^2/\text{NDF}: 917891.9/46$

All: -16.293 ± 0.014 $\chi^2/\text{NDF}: 1782993.2/88$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -520.219 ± 6.129 $\chi^2/\text{NDF}: 109.0/1$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -554.444 ± 3.726 $\chi^2/\text{NDF}: 744.1/2$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

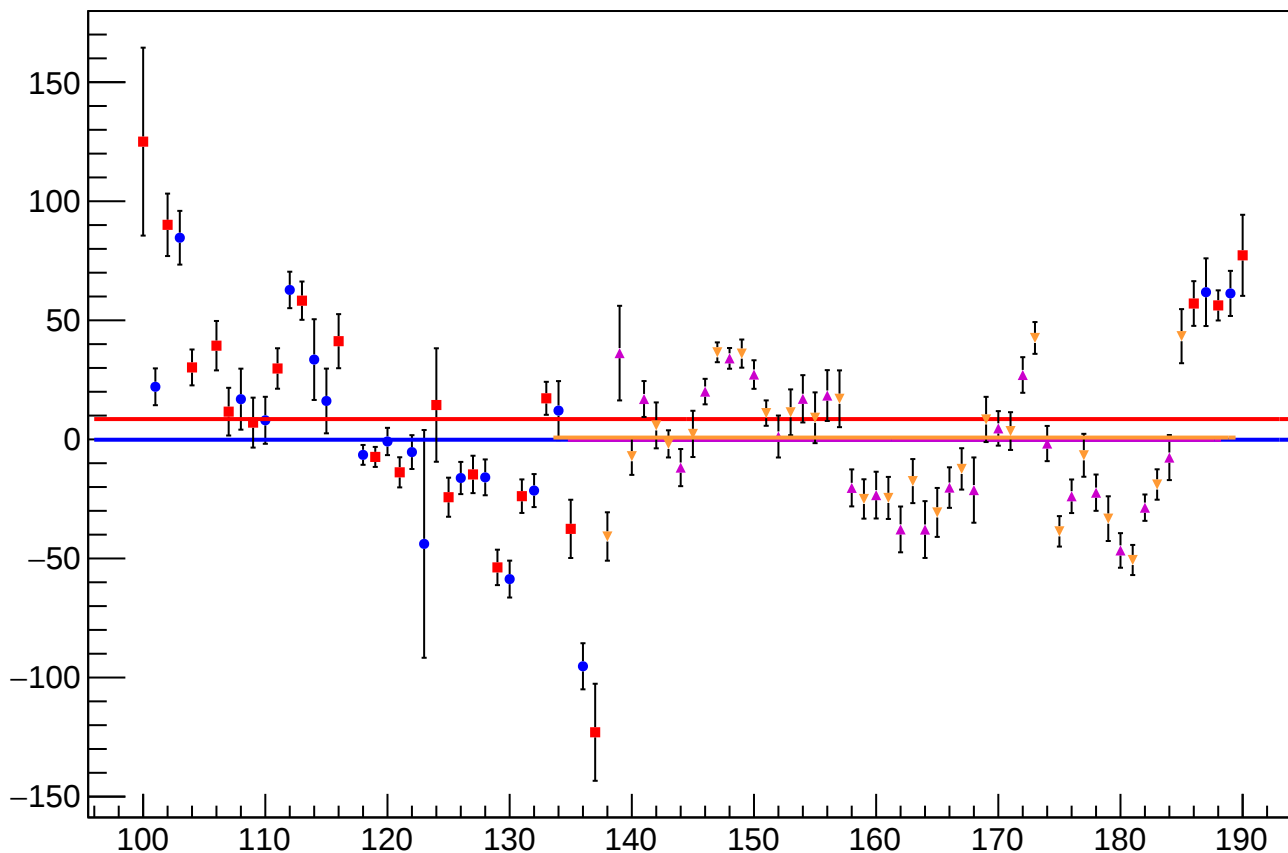
Right: -545.206 ± 3.184 $\chi^2/\text{NDF}: 875.9/4$

In: -426.545 ± 1.905 $\chi^2/\text{NDF}: 4284.6/24$

Out: -429.800 ± 1.730 $\chi^2/\text{NDF}: 8116.9/27$

All: -428.329 ± 1.281 $\chi^2/\text{NDF}: 12403.2/52$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.141 ± 1.871 χ^2/NDF : 379.1/18

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 8.531 ± 1.791 χ^2/NDF : 417.7/21

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

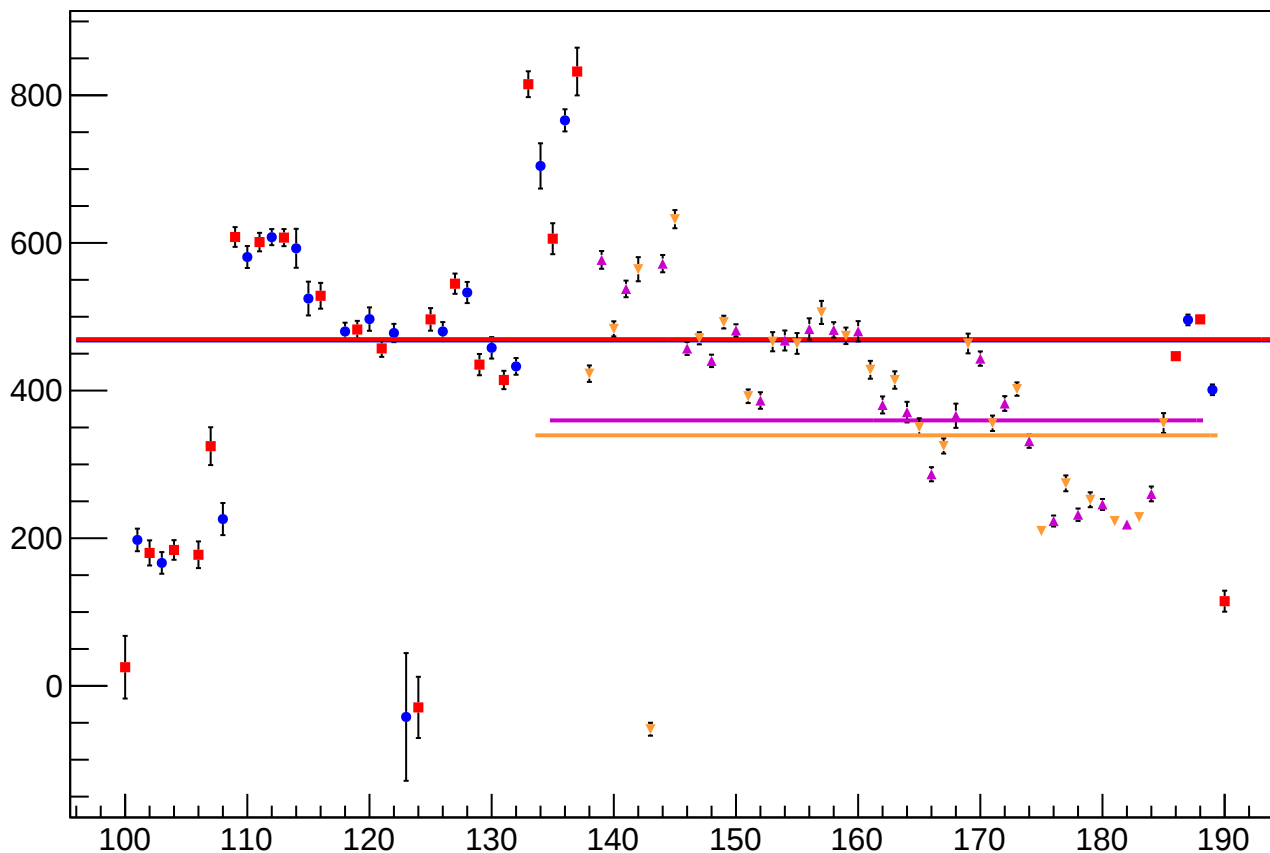
Right: 4.387 ± 1.294 χ^2/NDF : 808.0/40

In: -0.177 ± 1.205 χ^2/NDF : 639.9/41

Out: 3.976 ± 1.151 χ^2/NDF : 778.8/46

All: 1.995 ± 0.832 χ^2/NDF : 1424.9/88

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 467.898 $\pm$ 2.981 χ^2 /NDF: 1736.1/18

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 469.676 $\pm$ 2.301 χ^2 /NDF: 2979.5/21

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

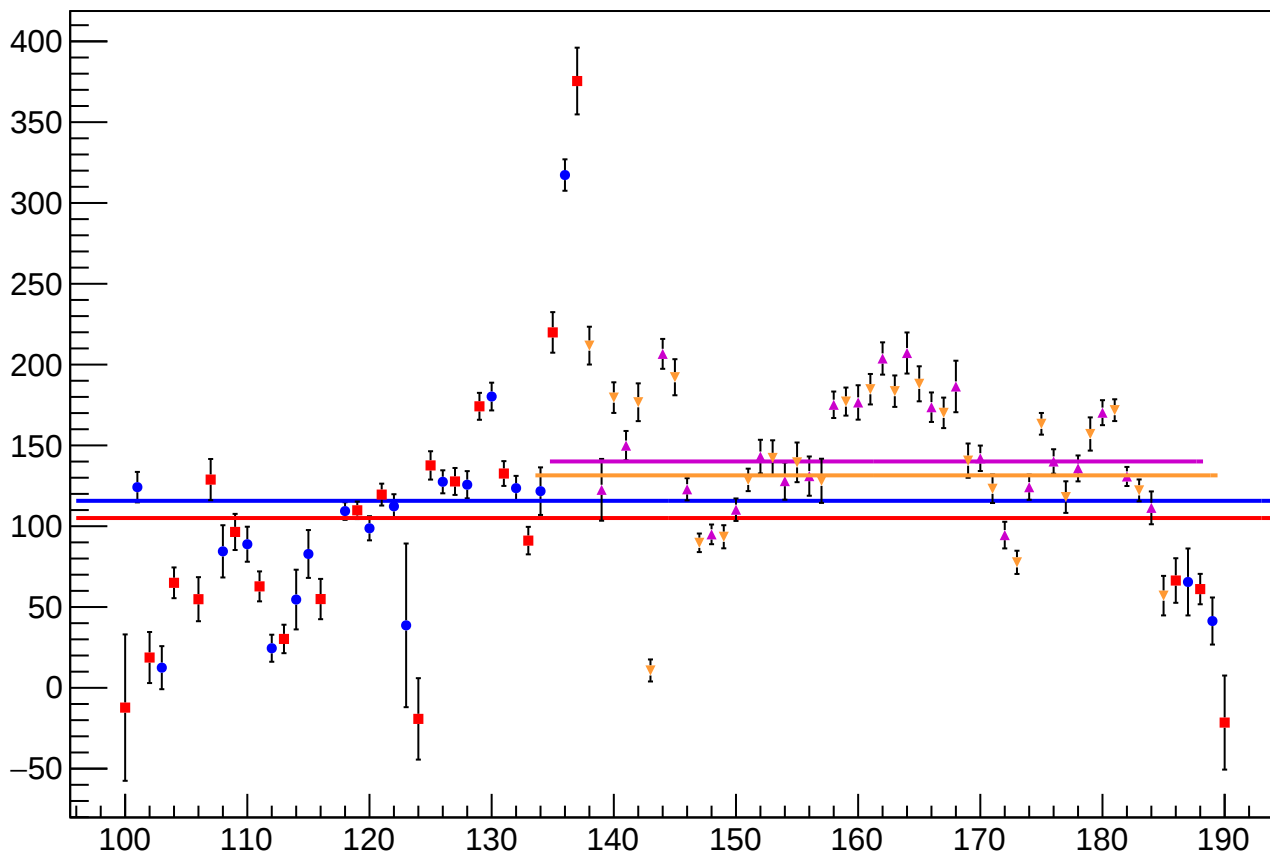
Right: 469.012 $\pm$ 1.821 χ^2 /NDF: 4715.8/40

In: 393.289 $\pm$ 1.662 χ^2 /NDF:6044.0/41

Out: 394.244 $\pm$ 1.493 χ^2 /NDF:10339.0/46

All: 393.818 $\pm$ 1.111 χ^2 /NDF: 16383.3/88

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 115.710 $\pm$ 2.192 χ^2 /NDF: 738.1/18

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF:809.3/24

Right Out: 105.061 $\pm$ 2.119 χ^2 /NDF: 620.3/21

Left In: 140.069 $\pm$ 1.795 χ^2 /NDF:316.5/22

Left: 135.602 $\pm$ 1.245 χ^2 /NDF: 1137.8/47

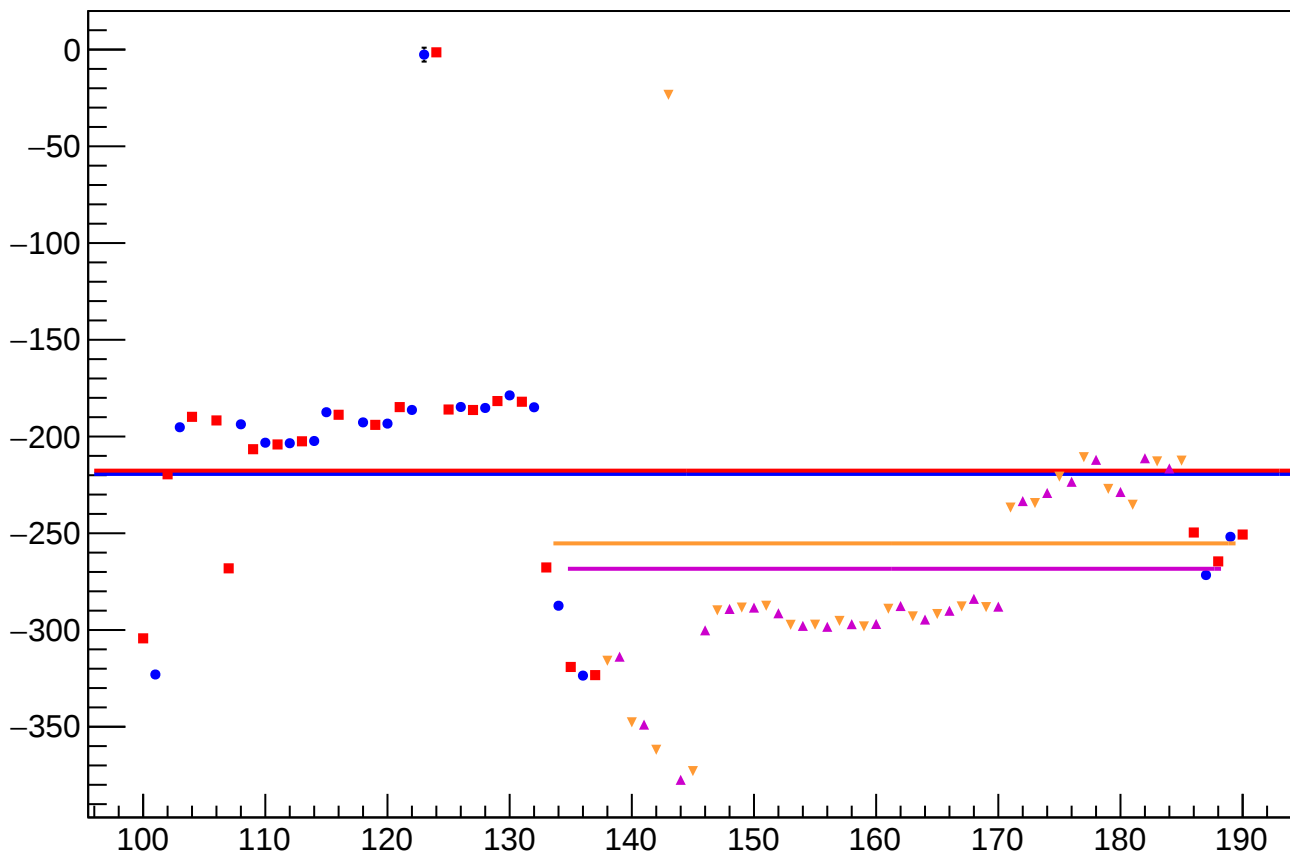
Right: 110.205 $\pm$ 1.524 χ^2 /NDF: 1370.6/40

In: 130.293 $\pm$ 1.389 χ^2 /NDF:1128.5/41

Out: 120.924 $\pm$ 1.339 χ^2 /NDF:1522.9/46

All: 125.437 $\pm$ 0.964 χ^2 /NDF: 2674.9/88

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -219.329 ± 0.133 $\chi^2/\text{NDF}: 151145.3/18$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -217.632 ± 0.123 $\chi^2/\text{NDF}: 129276.6/21$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

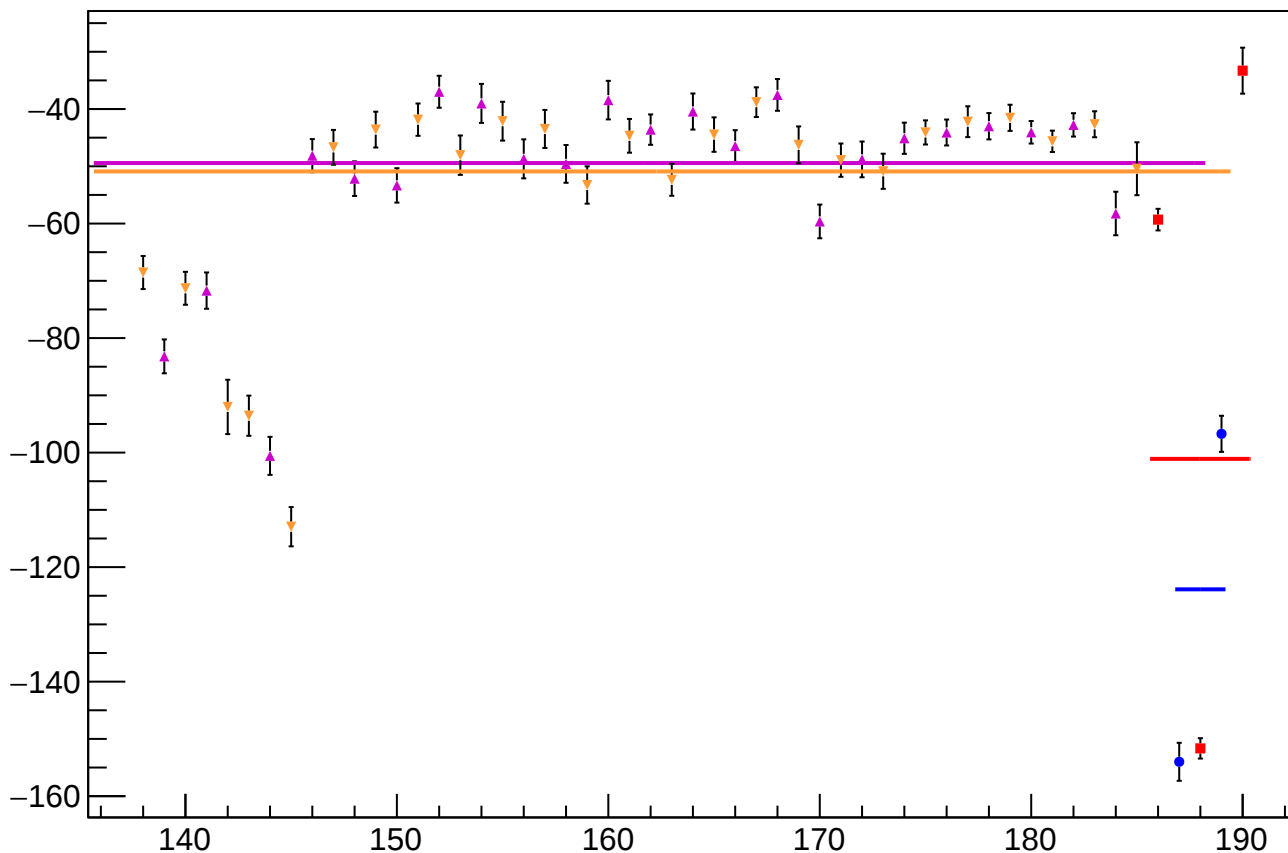
Right: -218.417 ± 0.090 $\chi^2/\text{NDF}: 280509.3/40$

In: -254.470 ± 0.071 $\chi^2/\text{NDF}: 510955.3/41$

Out: -243.727 ± 0.068 $\chi^2/\text{NDF}: 921688.2/46$

All: -248.904 ± 0.049 $\chi^2/\text{NDF}: 1444572.1/88$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -123.879 ± 2.285 χ^2/NDF : 156.7/1

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -101.097 ± 1.232 χ^2/NDF : 1582.4/2

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

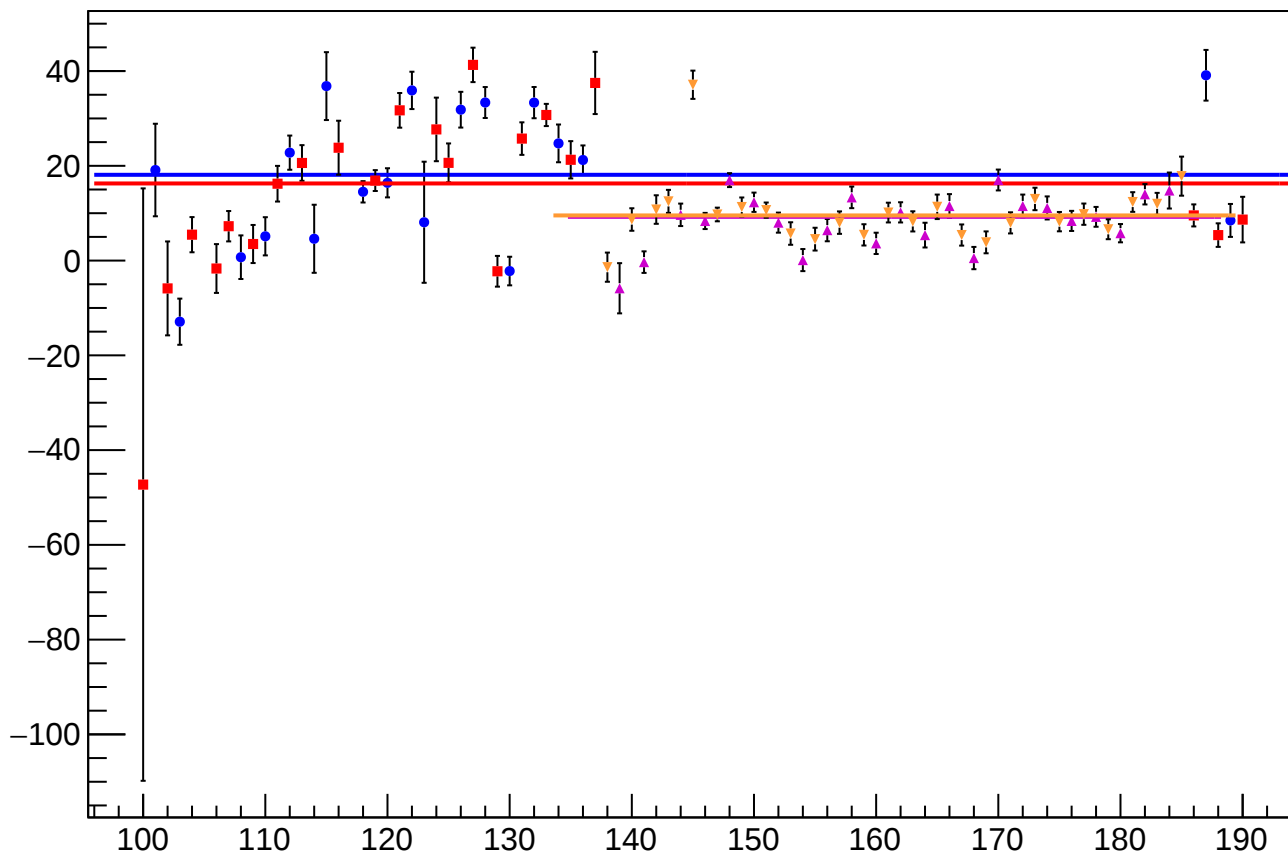
Right: -106.229 ± 1.084 χ^2/NDF : 1816.1/4

In: -53.996 ± 0.566 χ^2/NDF : 1696.7/24

Out: -59.818 ± 0.519 χ^2/NDF : 3708.5/27

All: -57.155 ± 0.383 χ^2/NDF : 5462.7/52

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.104 $\pm$ 0.876 χ^2 /NDF: 229.7/18

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 16.278 $\pm$ 0.760 χ^2 /NDF: 237.5/21

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

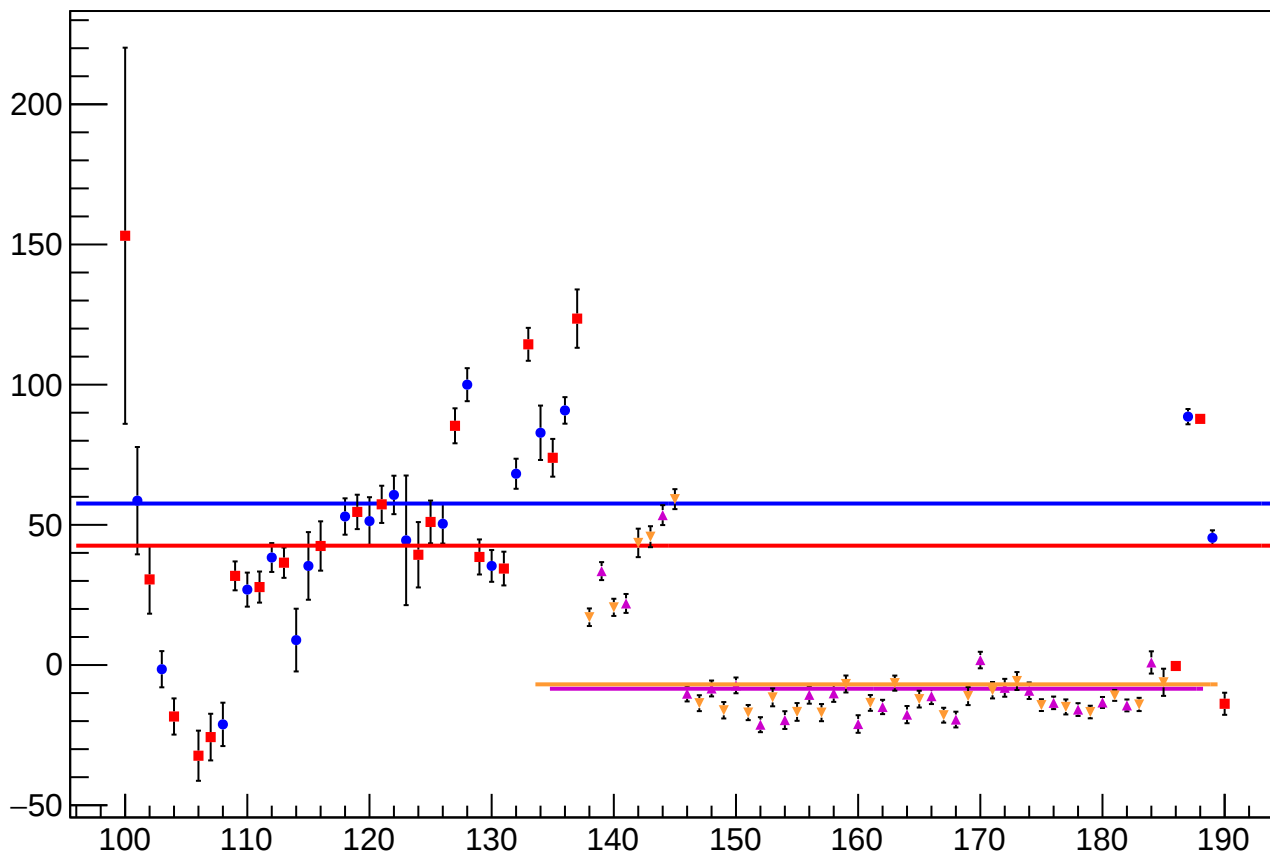
Right: 17.062 $\pm$ 0.574 χ^2 /NDF: 469.7/40

In: 11.159 $\pm$ 0.408 χ^2 /NDF:433.9/41

Out: 11.257 $\pm$ 0.385 χ^2 /NDF:430.5/46

All: 11.211 $\pm$ 0.280 χ^2 /NDF: 864.4/88

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 57.599 $\pm$ 1.263 χ^2 /NDF: 529.0/18

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 42.576 $\pm$ 0.853 χ^2 /NDF: 2538.0/21

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

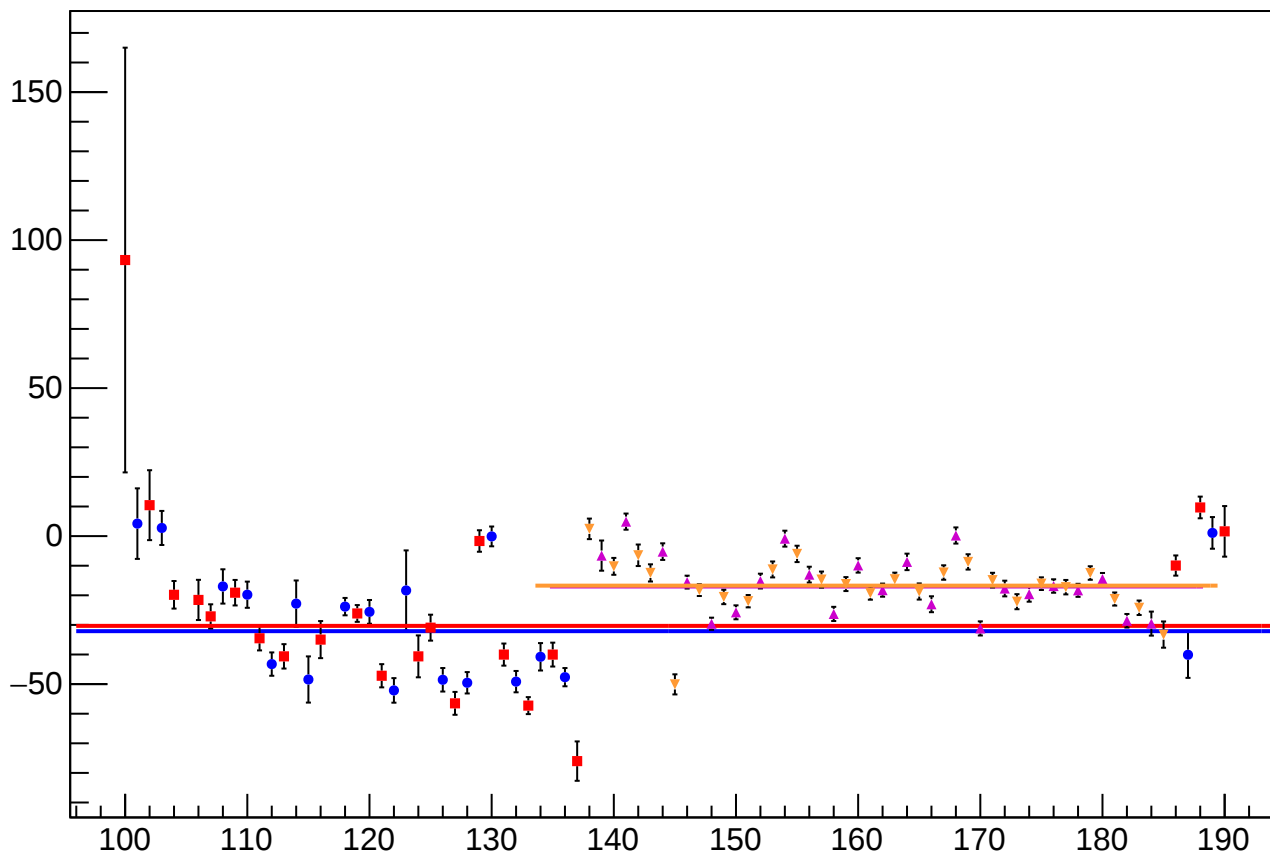
Right: 47.276 $\pm$ 0.707 χ^2 /NDF: 3164.1/40

In: 3.039 $\pm$ 0.527 χ^2 /NDF: 3475.4/41

Out: 8.429 $\pm$ 0.474 χ^2 /NDF: 5776.2/46

All: 6.016 $\pm$ 0.353 χ^2 /NDF: 9309.4/88

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.113 ± 1.017 $\chi^2/\text{NDF}: 332.1/18$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -30.324 ± 0.917 $\chi^2/\text{NDF}: 484.5/21$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

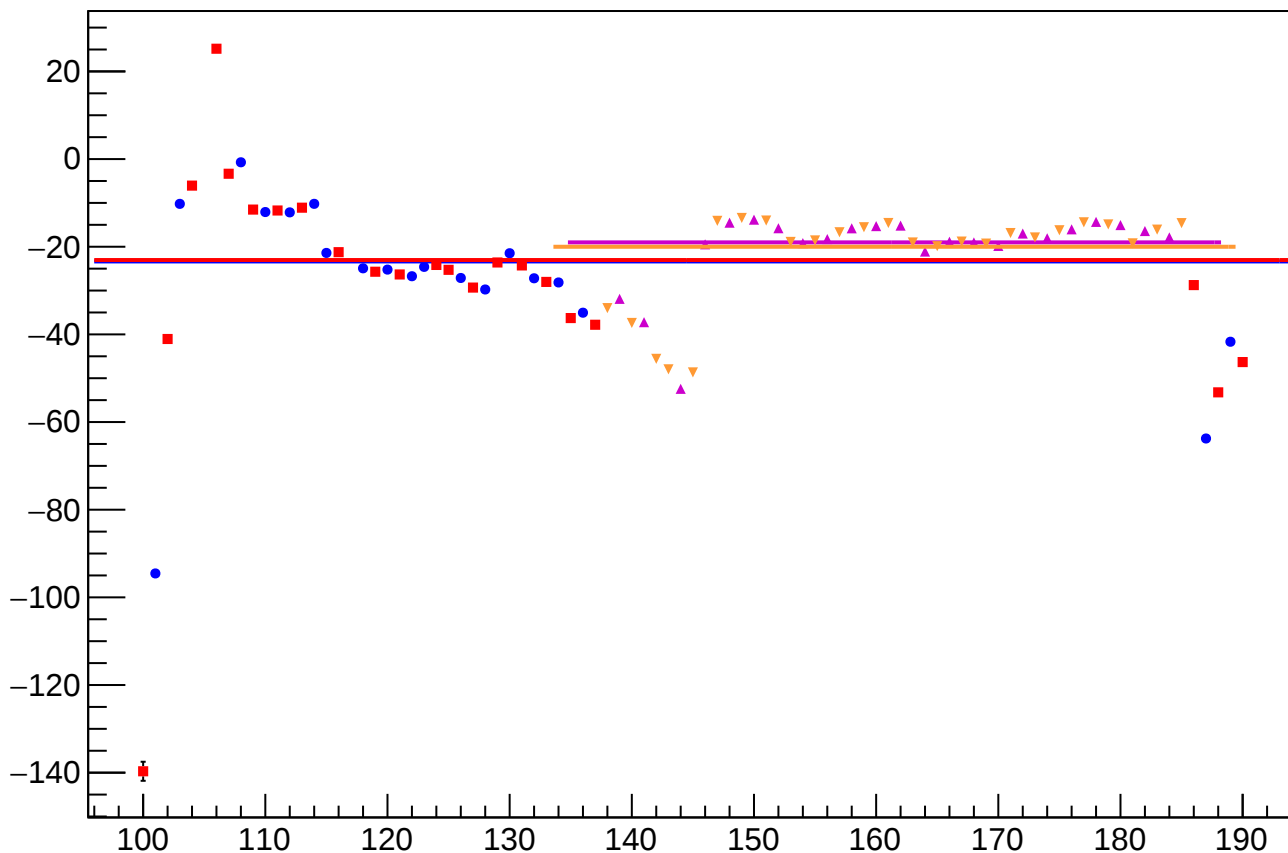
Right: -31.127 ± 0.681 $\chi^2/\text{NDF}: 818.3/40$

In: -20.167 ± 0.464 $\chi^2/\text{NDF}: 833.9/41$

Out: -19.910 ± 0.444 $\chi^2/\text{NDF}: 876.0/46$

All: -20.033 ± 0.321 $\chi^2/\text{NDF}: 1710.1/88$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -23.354 ± 0.057 χ^2/NDF : 64703.4/18

Left Out: -20.006 ± 0.023 χ^2/NDF : 145623.8/24

Right Out: -23.036 ± 0.052 χ^2/NDF : 124328.2/21

Left In: -19.007 ± 0.024 χ^2/NDF : 90873.3/22

Left: -19.514 ± 0.017 χ^2/NDF : 237400.2/47

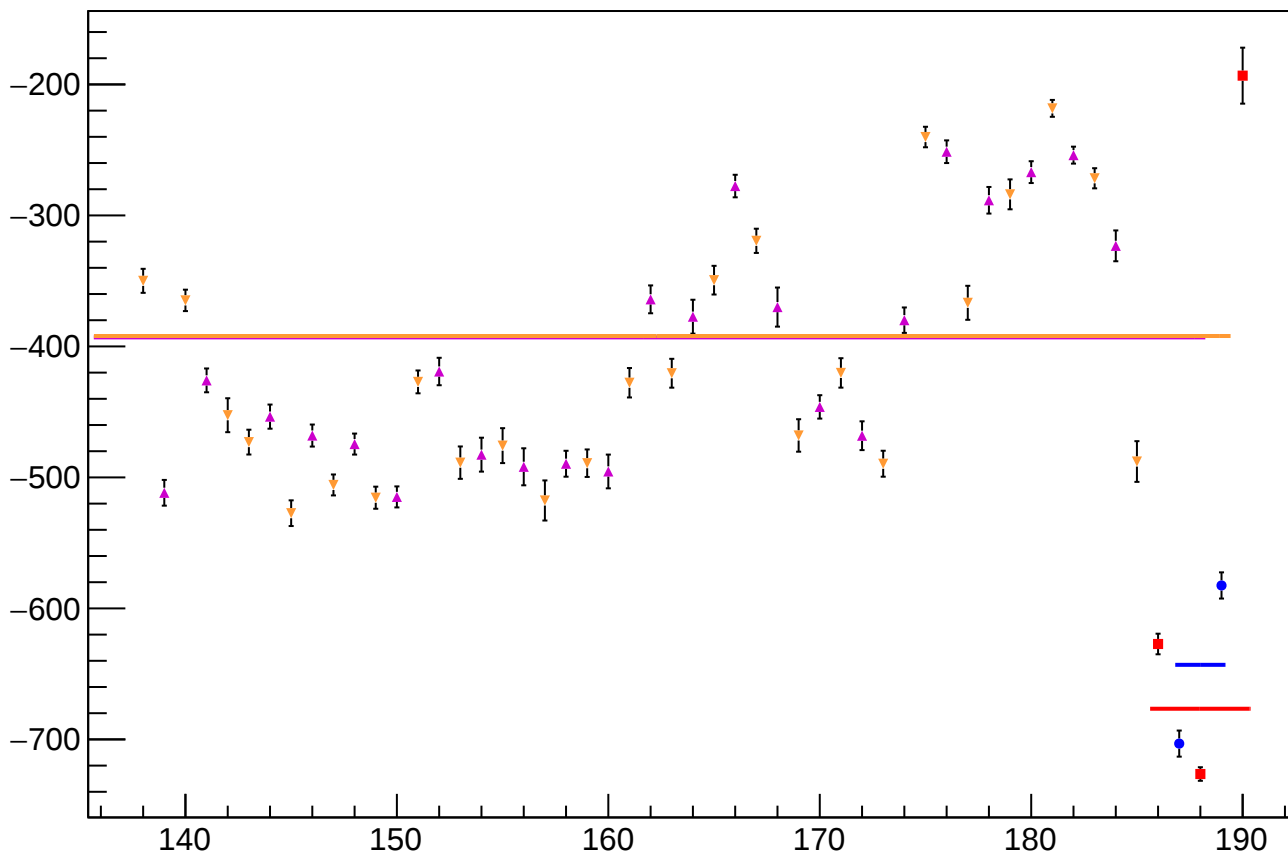
Right: -23.182 ± 0.038 χ^2/NDF : 189048.7/40

In: -19.653 ± 0.022 χ^2/NDF : 160585.3/41

Out: -20.507 ± 0.021 χ^2/NDF : 272753.0/46

All: -20.091 ± 0.015 χ^2/NDF : 434122.9/88

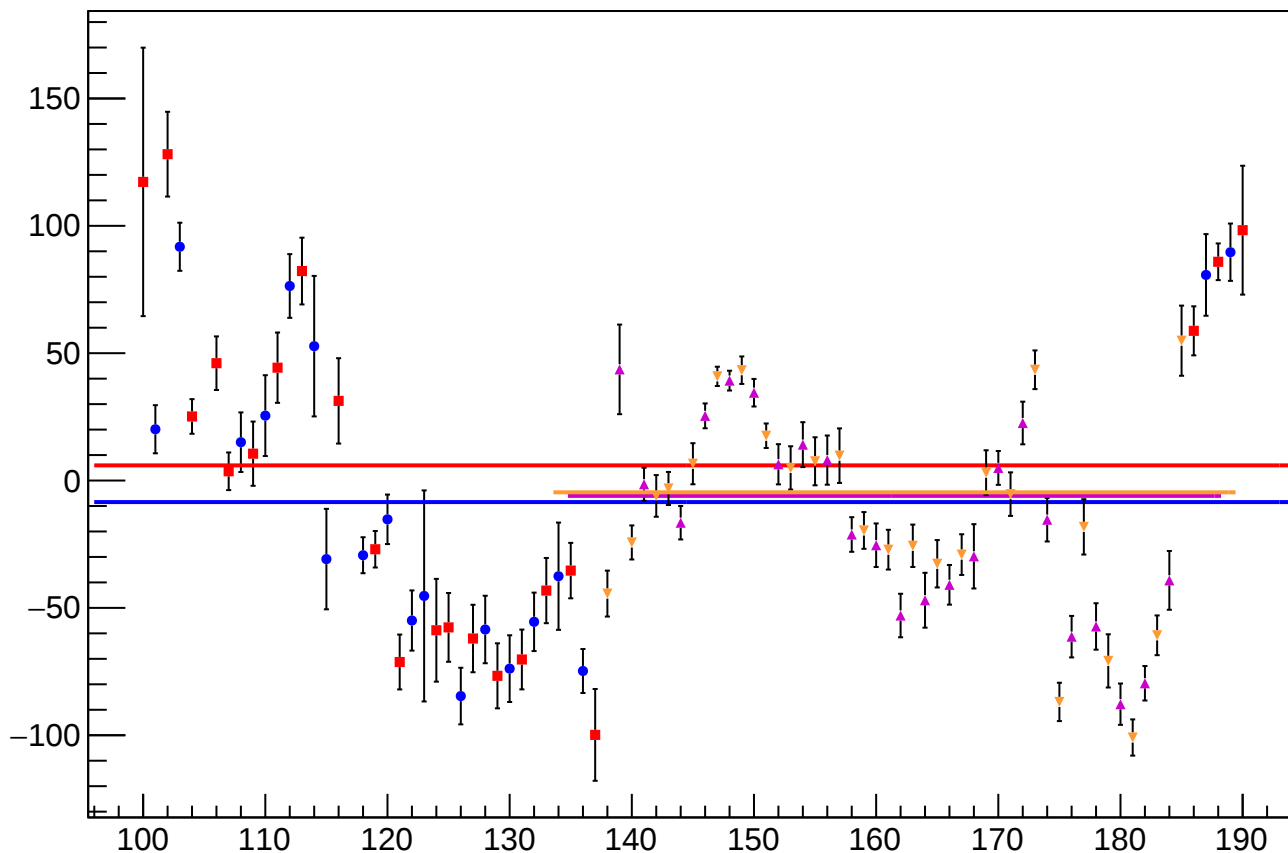
reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -643.077+/-7.059 χ^2/NDF : 73.1/1
 Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24
 Right Out: -676.598+/-4.239 χ^2/NDF : 643.7/2
 Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47
 Right: -667.716+/-3.634 χ^2/NDF : 733.4/4
 In: -411.781+/-1.929 χ^2/NDF : 3486.5/24
 Out: -442.456+/-1.784 χ^2/NDF : 7069.2/27
 All: -428.317+/-1.310 χ^2/NDF : 10692.0/52

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.460 ± 2.701 $\chi^2/\text{NDF}: 479.1/18$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 5.951 ± 2.368 $\chi^2/\text{NDF}: 570.6/21$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

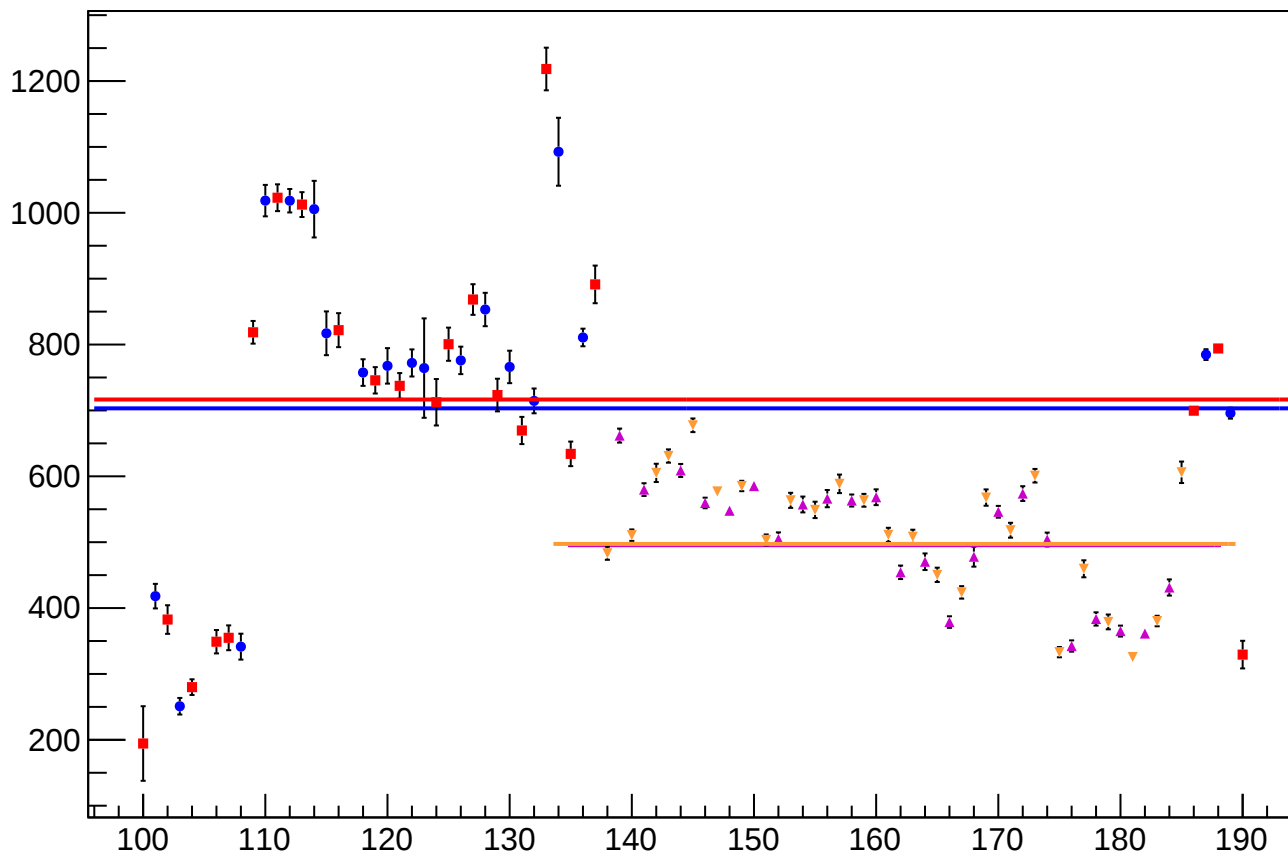
Right: -0.313 ± 1.781 $\chi^2/\text{NDF}: 1065.8/40$

In: -6.603 ± 1.322 $\chi^2/\text{NDF}: 1133.8/41$

Out: -1.706 ± 1.244 $\chi^2/\text{NDF}: 1357.9/46$

All: -4.006 ± 0.906 $\chi^2/\text{NDF}: 2499.0/88$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 703.162 $\pm$ 3.828 χ^2 /NDF: 2712.6/18

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 716.588 $\pm$ 2.778 χ^2 /NDF: 4044.2/21

Left In: 495.454 $\pm$ 1.992 χ^2 /NDF:2253.8/22

Left: 496.430 $\pm$ 1.399 χ^2 /NDF: 4868.9/47

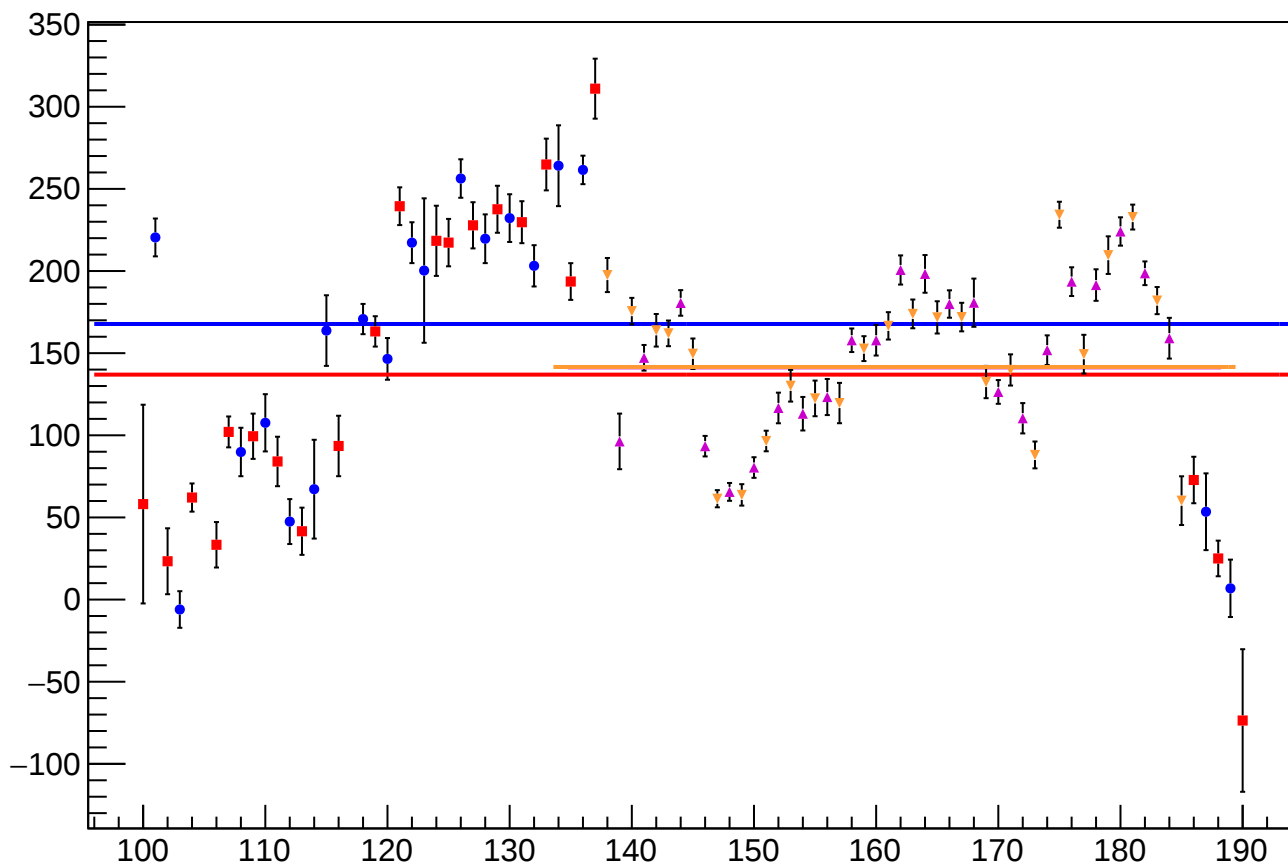
Right: 711.956 $\pm$ 2.248 χ^2 /NDF: 6764.9/40

In: 539.726 $\pm$ 1.767 χ^2 /NDF:7283.4/41

Out: 570.537 $\pm$ 1.605 χ^2 /NDF:10808.1/46

All: 556.612 $\pm$ 1.188 χ^2 /NDF: 18258.1/88

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 167.753 $\pm$ 3.162 χ^2 /NDF: 749.9/18

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 136.934 $\pm$ 2.865 χ^2 /NDF: 859.5/21

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

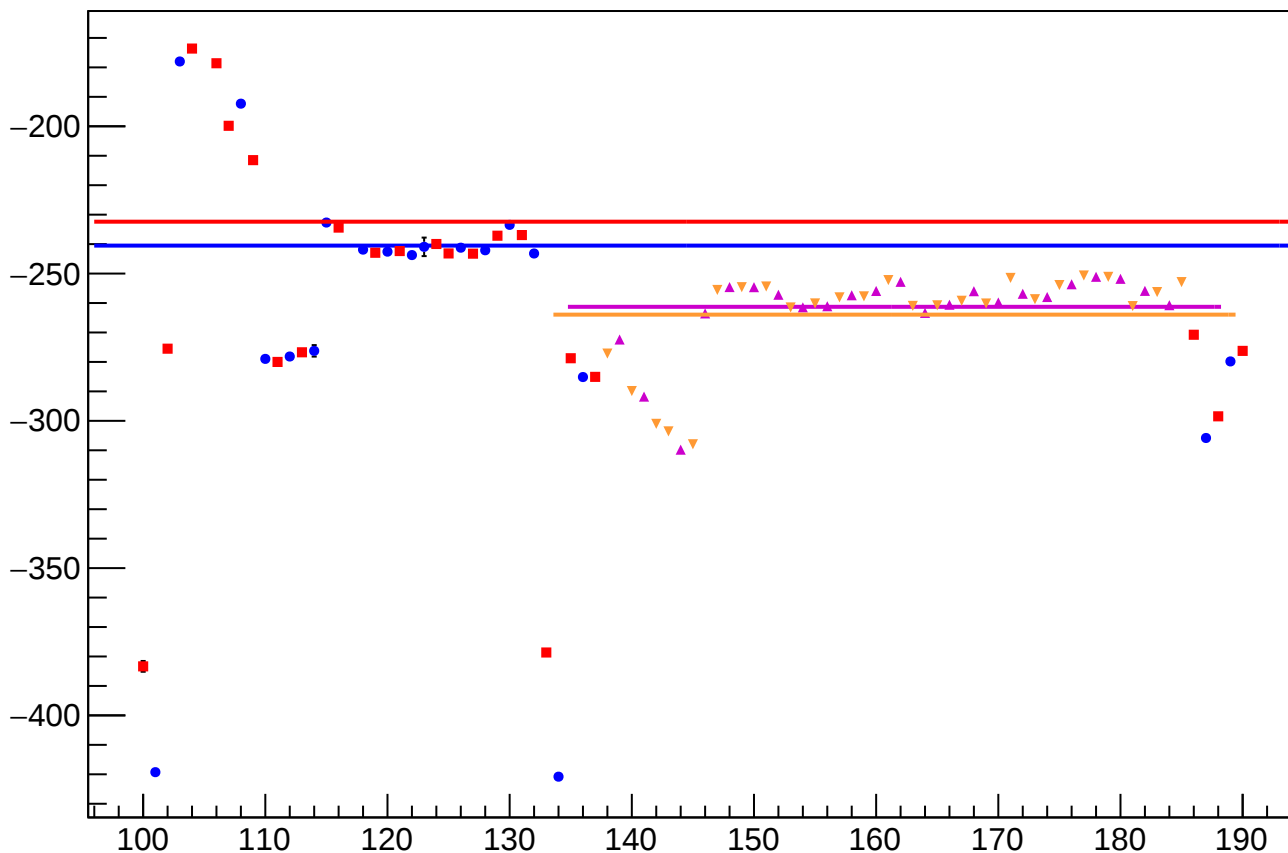
Right: 150.832 $\pm$ 2.123 χ^2 /NDF: 1661.6/40

In: 147.539 $\pm$ 1.530 χ^2 /NDF:1544.5/41

Out: 140.378 $\pm$ 1.461 χ^2 /NDF:1821.1/46

All: 143.794 $\pm$ 1.057 χ^2 /NDF: 3377.0/88

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -240.506+/-0.157 χ^2/NDF : 171792.1/18

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -232.387+/-0.144 χ^2/NDF : 119280.4/21

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

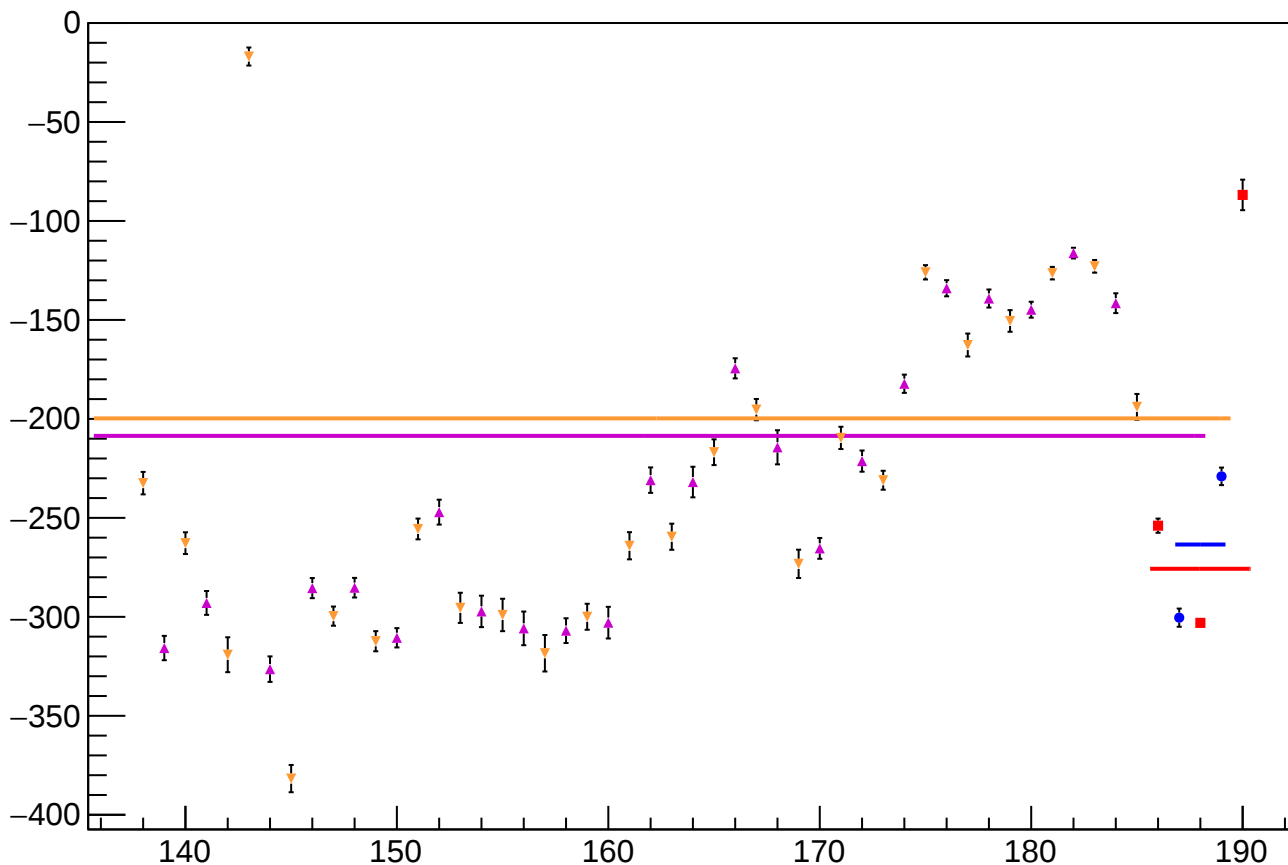
Right: -236.107+/-0.106 χ^2/NDF : 292525.4/40

In: -256.826+/-0.073 χ^2/NDF : 208934.7/41

Out: -256.339+/-0.071 χ^2/NDF : 194716.7/46

All: -256.576+/-0.051 χ^2/NDF : 403674.3/88

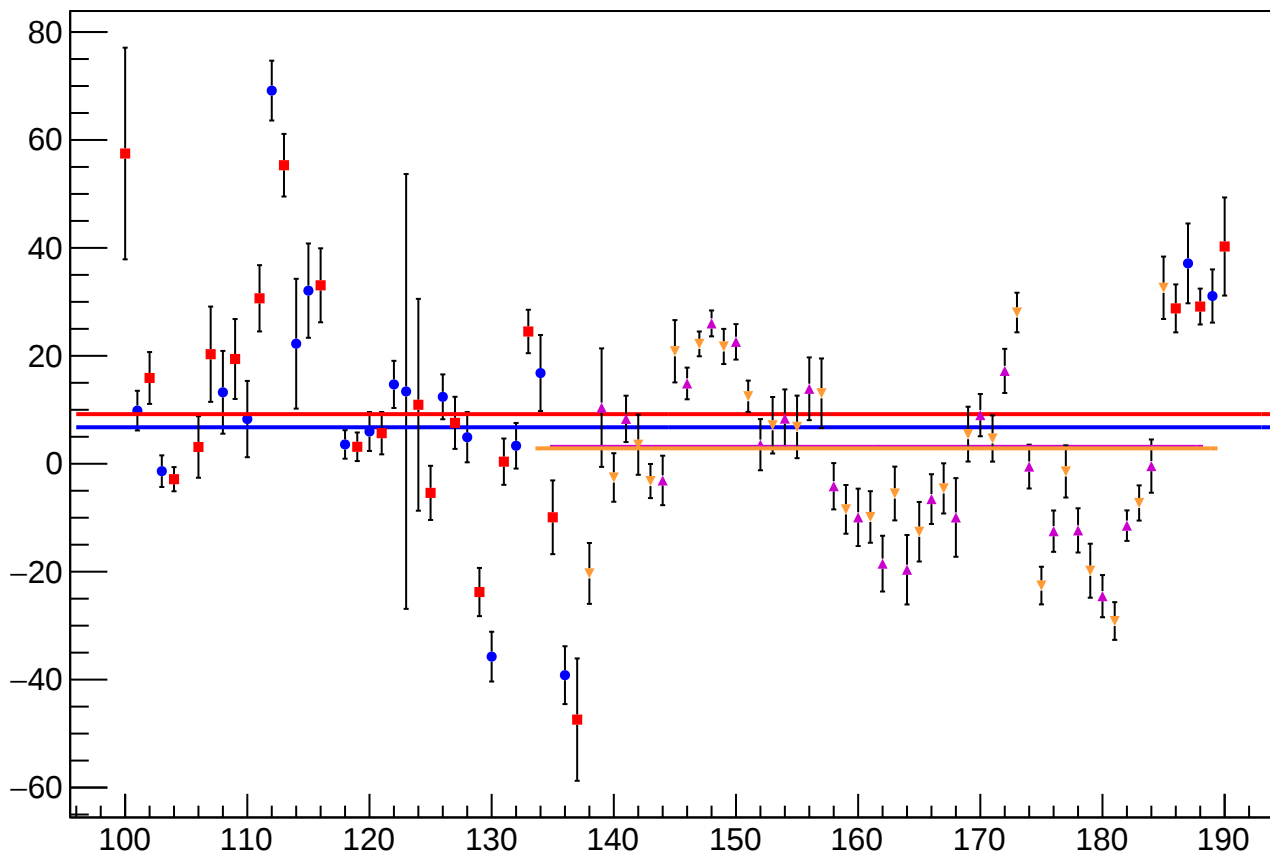
reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.460 ± 3.189 $\chi^2/\text{NDF}: 125.2/1$
 Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$
 Right Out: -275.717 ± 1.916 $\chi^2/\text{NDF}: 769.1/2$
 Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$
 Right: -272.465 ± 1.642 $\chi^2/\text{NDF}: 905.1/4$
 In: -214.248 ± 1.025 $\chi^2/\text{NDF}: 5195.9/24$
 Out: -217.574 ± 0.928 $\chi^2/\text{NDF}: 8333.8/27$
 All: -216.075 ± 0.688 $\chi^2/\text{NDF}: 13535.5/52$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.762 ± 1.069 $\chi^2/\text{NDF}: 355.1/18$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 9.194 ± 0.987 $\chi^2/\text{NDF}: 317.0/21$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

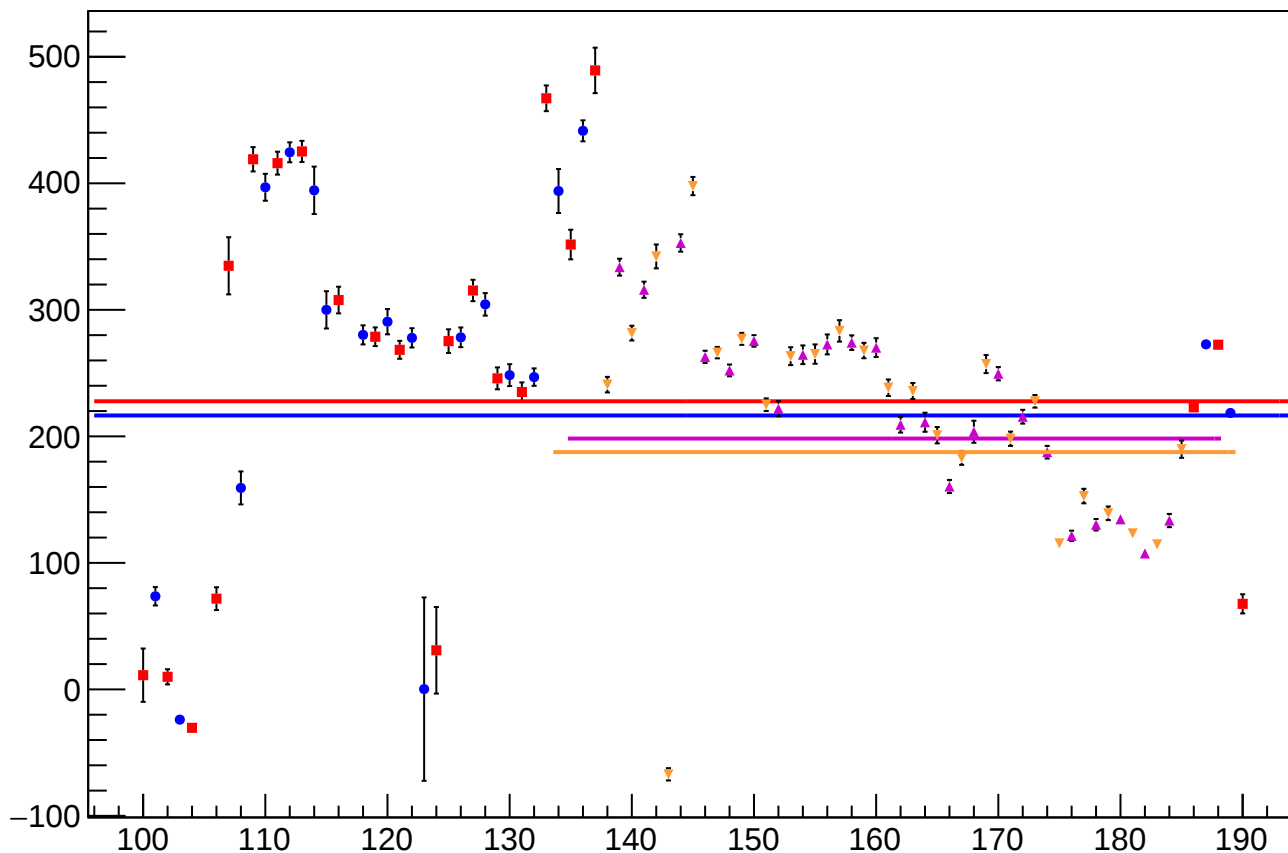
Right: 8.075 ± 0.725 $\chi^2/\text{NDF}: 674.8/40$

In: 4.554 ± 0.668 $\chi^2/\text{NDF}: 681.9/41$

Out: 5.443 ± 0.631 $\chi^2/\text{NDF}: 761.3/46$

All: 5.024 ± 0.459 $\chi^2/\text{NDF}: 1444.0/88$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 216.500 $\pm$ 1.591 χ^2 /NDF: 7006.1/18

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 227.713 $\pm$ 1.210 χ^2 /NDF: 9535.5/21

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

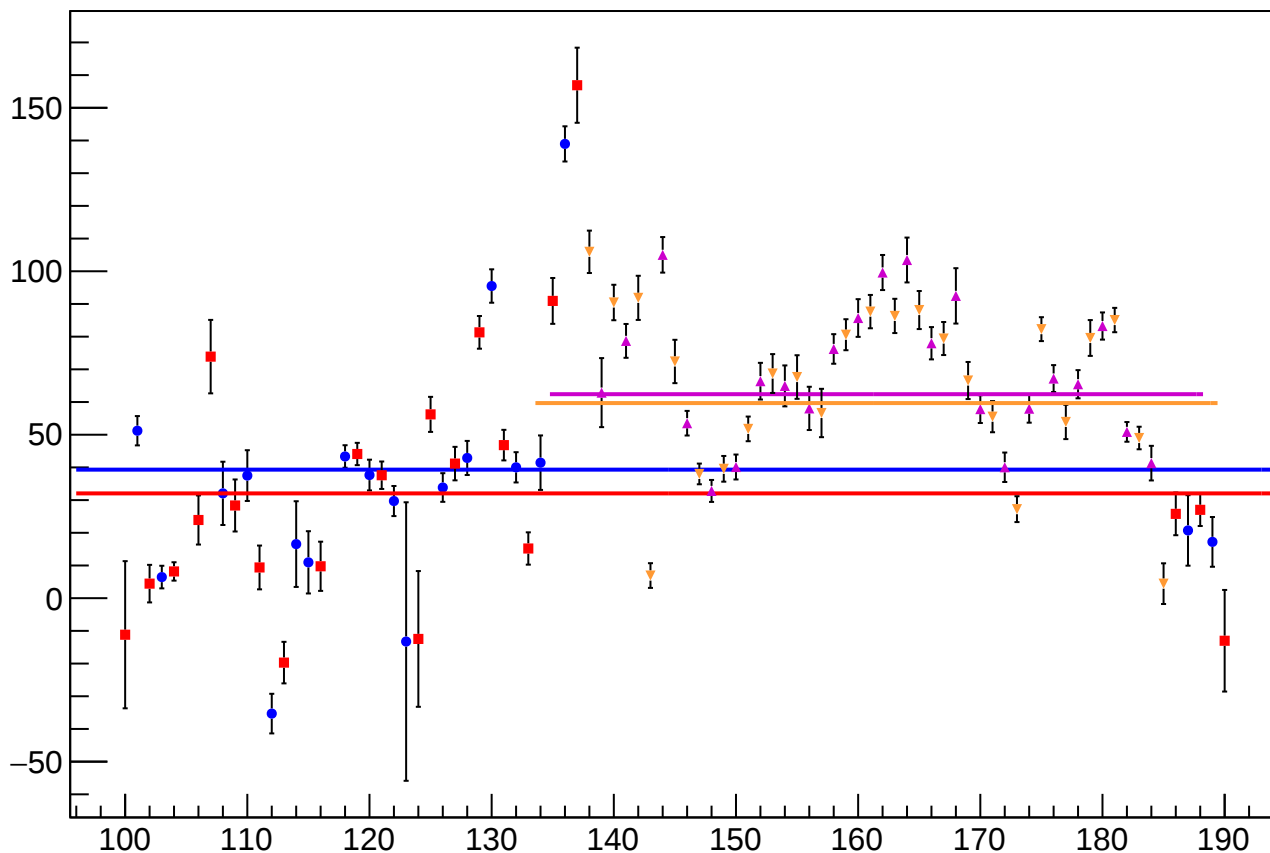
Right: 223.603 $\pm$ 0.963 χ^2 /NDF: 16573.1/40

In: 204.032 $\pm$ 0.894 χ^2 /NDF: 11611.7/41

Out: 205.107 $\pm$ 0.800 χ^2 /NDF: 17237.5/46

All: 204.629 $\pm$ 0.596 χ^2 /NDF: 28850.0/88

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.319 $\pm$ 1.259 χ^2/NDF : 745.8/18

Left Out: 59.682 $\pm$ 0.941 χ^2/NDF : 757.6/24

Right Out: 32.052 $\pm$ 1.190 χ^2/NDF : 560.6/21

Left In: 62.400 $\pm$ 0.974 χ^2/NDF : 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2/NDF : 1167.9/47

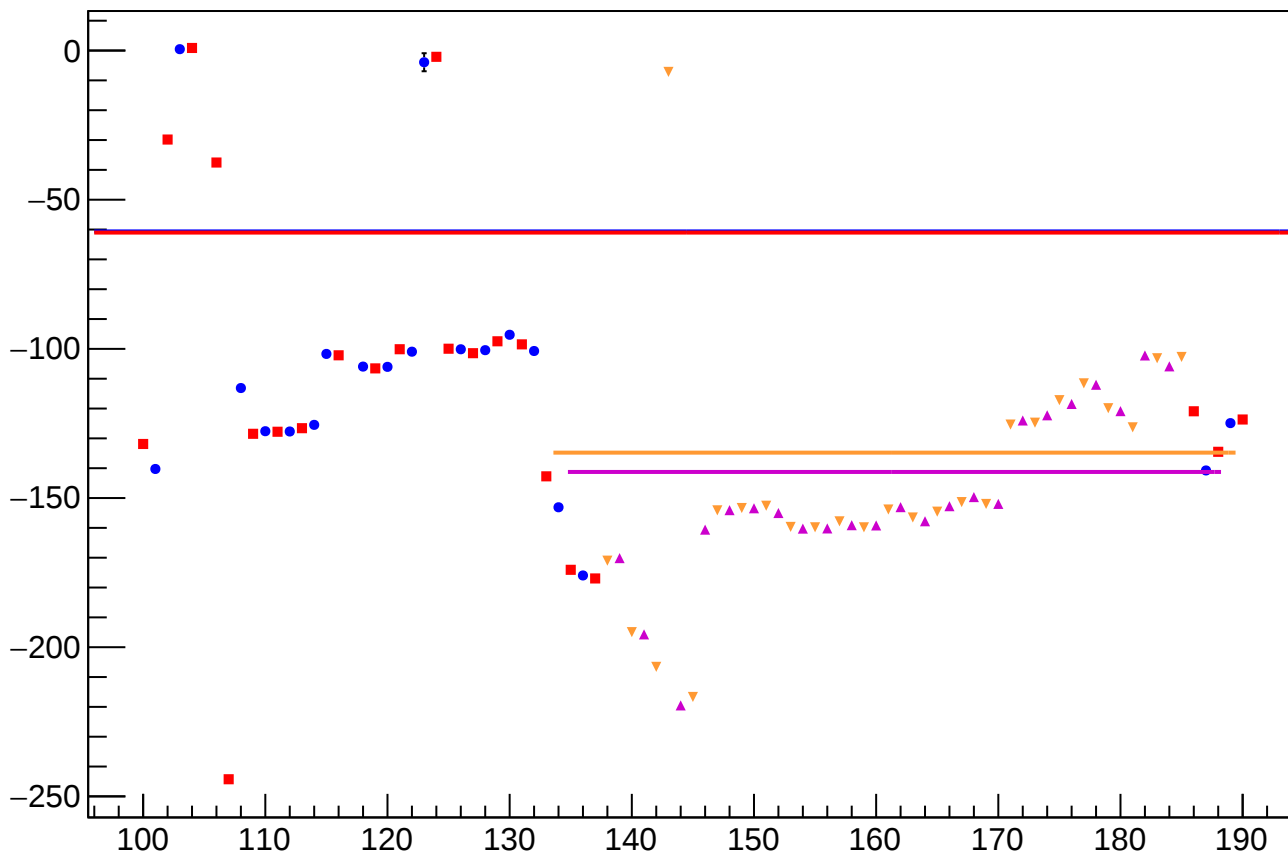
Right: 35.481 $\pm$ 0.865 χ^2/NDF : 1324.0/40

In: 53.756 $\pm$ 0.770 χ^2/NDF : 1362.3/41

Out: 49.058 $\pm$ 0.738 χ^2/NDF : 1649.9/46

All: 51.306 $\pm$ 0.533 χ^2/NDF : 3031.6/88

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -60.626 ± 0.061 $\chi^2/\text{NDF}: 1154305.0/18$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -61.019 ± 0.058 $\chi^2/\text{NDF}: 1130552.7/21$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

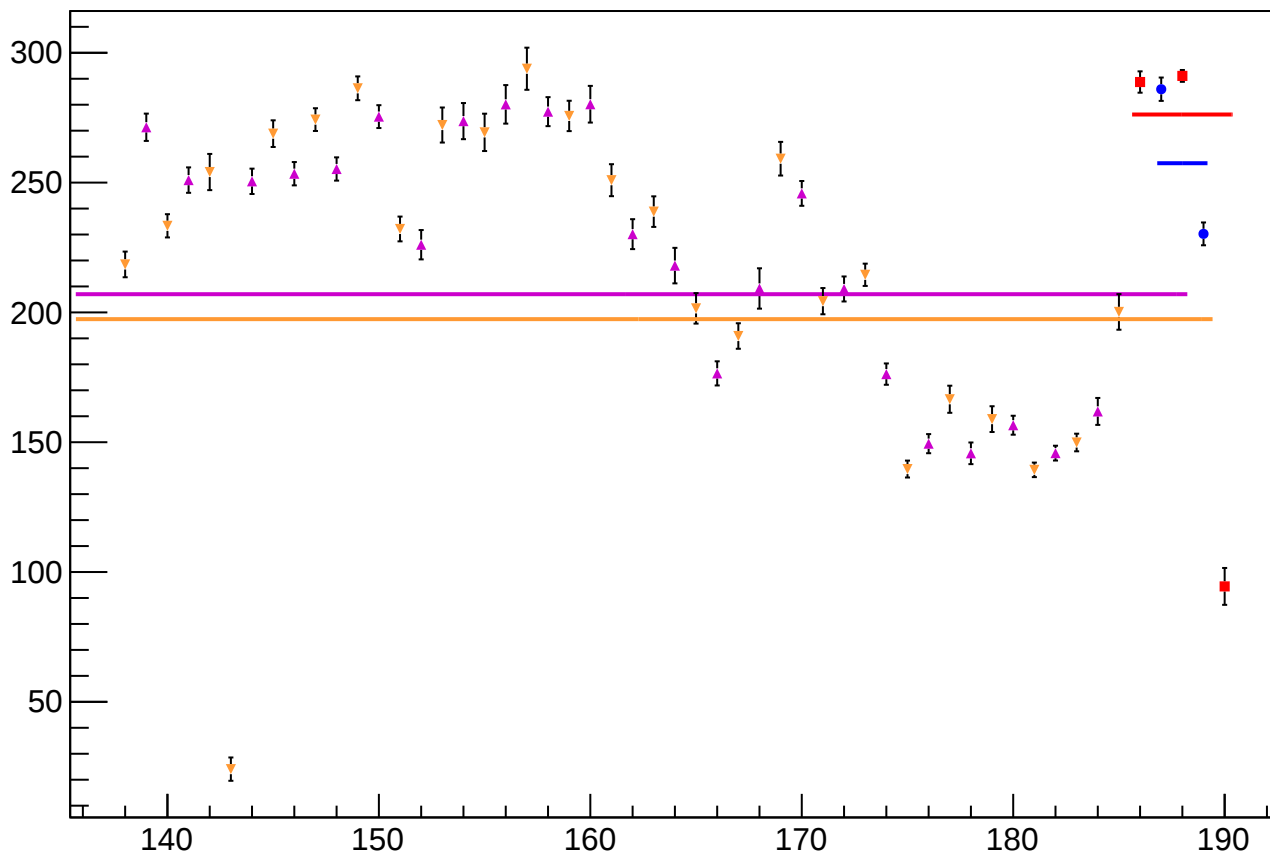
Right: -60.832 ± 0.042 $\chi^2/\text{NDF}: 2284879.8/40$

In: -112.340 ± 0.036 $\chi^2/\text{NDF}: 2638109.0/41$

Out: -107.281 ± 0.035 $\chi^2/\text{NDF}: 2959474.5/46$

All: -109.738 ± 0.025 $\chi^2/\text{NDF}: 5607591.3/88$

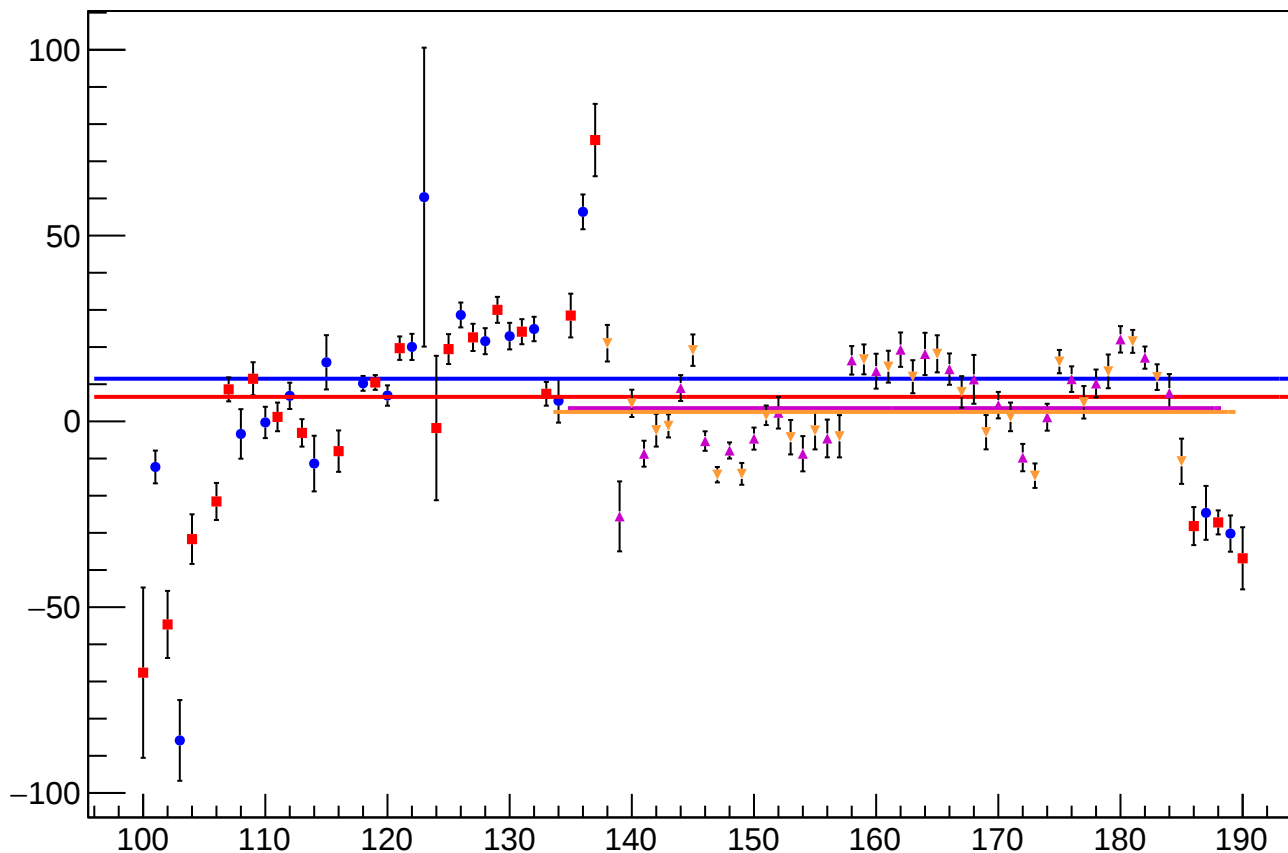
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 257.466 $\pm$ 3.144 χ^2 /NDF: 78.5/1
 Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24
 Right Out: 276.228 $\pm$ 1.919 χ^2 /NDF: 706.7/2
 Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47
 Right: 271.135 $\pm$ 1.638 χ^2 /NDF: 811.2/4
 In: 211.568 $\pm$ 0.944 χ^2 /NDF:2924.3/24
 Out: 213.259 $\pm$ 0.861 χ^2 /NDF:6438.5/27
 All: 212.492 $\pm$ 0.636 χ^2 /NDF: 9364.6/52

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.481 ± 0.914 χ^2/NDF : 396.2/18

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 6.593 ± 0.863 χ^2/NDF : 507.5/21

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

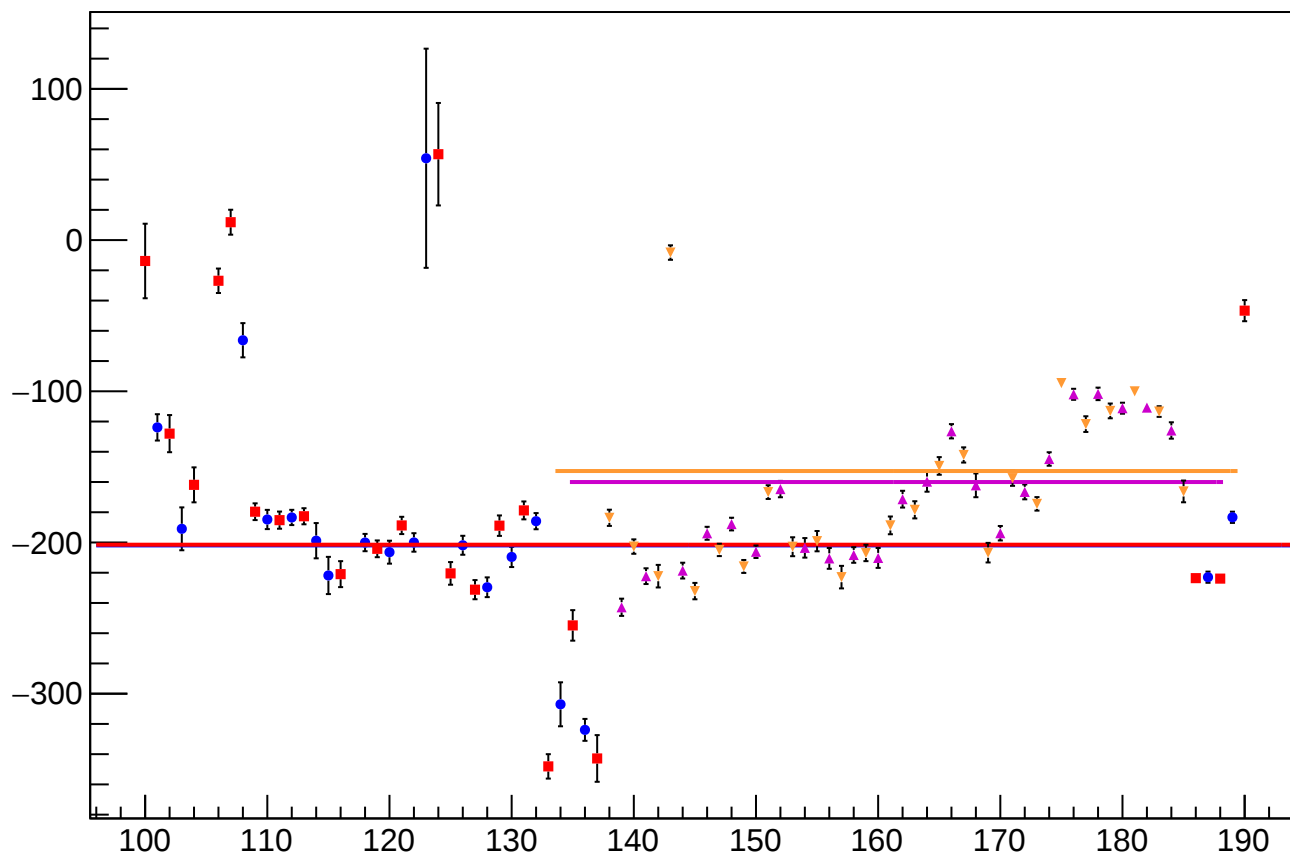
Right: 8.897 ± 0.627 χ^2/NDF : 918.9/40

In: 6.868 ± 0.591 χ^2/NDF : 632.0/41

Out: 4.265 ± 0.562 χ^2/NDF : 795.6/46

All: 5.502 ± 0.407 χ^2/NDF : 1437.8/88

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -201.937 ± 1.484 $\chi^2/\text{NDF}: 682.4/18$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -201.467 ± 1.151 $\chi^2/\text{NDF}: 2519.2/21$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

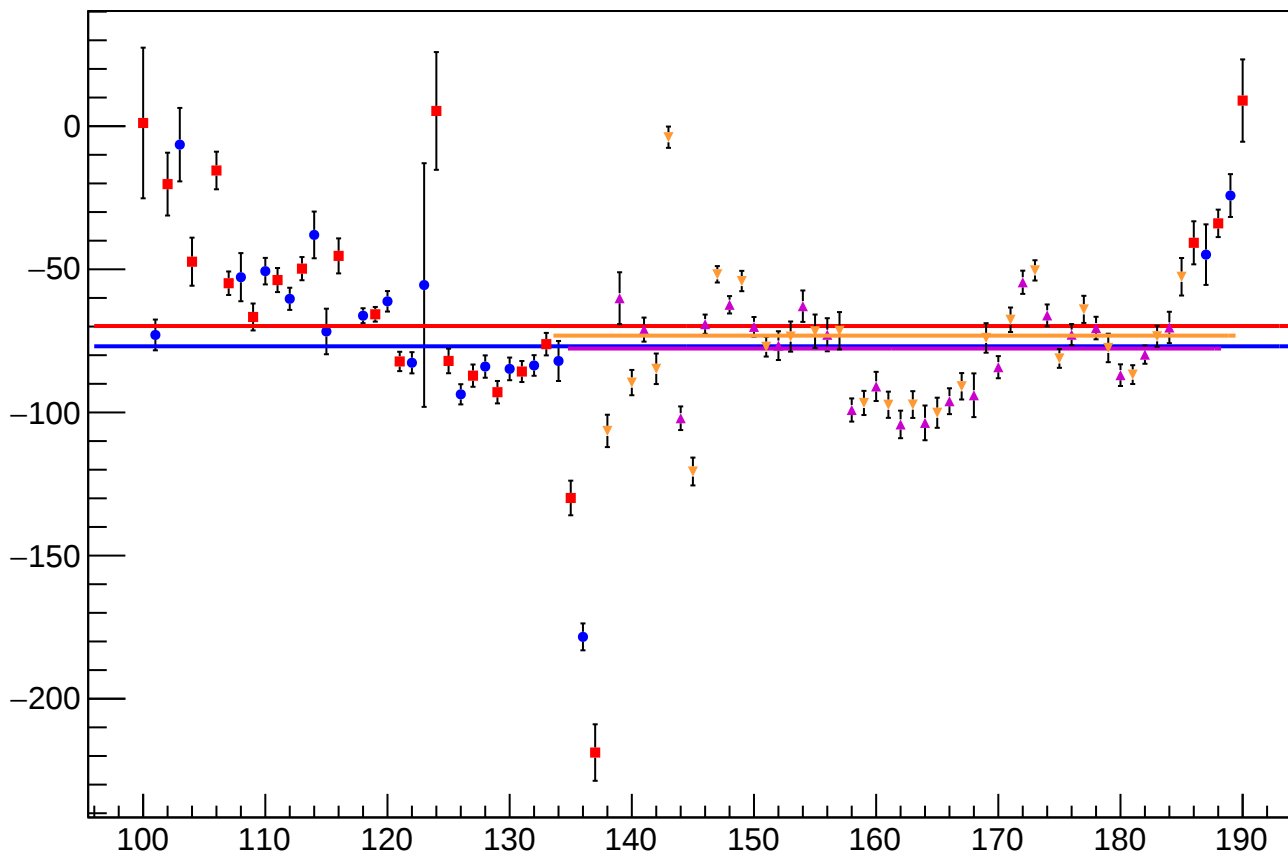
Right: -201.643 ± 0.910 $\chi^2/\text{NDF}: 3201.7/40$

In: -172.912 ± 0.823 $\chi^2/\text{NDF}: 3259.5/41$

Out: -172.894 ± 0.740 $\chi^2/\text{NDF}: 6647.4/46$

All: -172.902 ± 0.550 $\chi^2/\text{NDF}: 9906.9/88$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.892 ± 1.067 χ^2/NDF : 710.4/18

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -69.809 ± 1.017 χ^2/NDF : 712.9/21

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

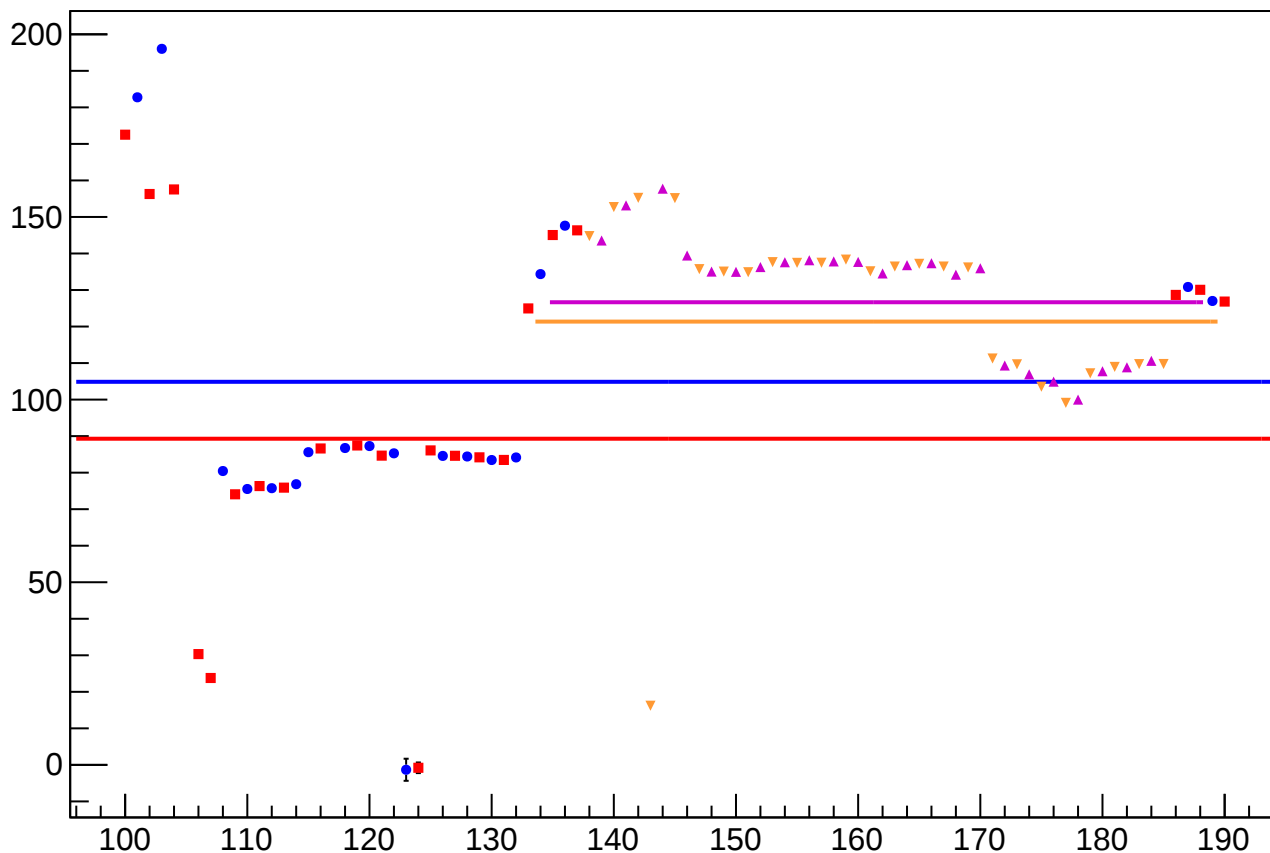
Right: -73.180 ± 0.736 χ^2/NDF : 1446.4/40

In: -77.358 ± 0.680 χ^2/NDF : 958.9/41

Out: -71.782 ± 0.653 χ^2/NDF : 1507.9/46

All: -74.456 ± 0.471 χ^2/NDF : 2501.8/88

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 104.873+/-0.069 χ^2/NDF : 279134.2/18

Left Out: 121.356+/-0.040 χ^2/NDF : 481977.3/24

Right Out: 89.289+/-0.061 χ^2/NDF : 468561.8/21

Left In: 126.653+/-0.041 χ^2/NDF : 163046.1/22

Left: 123.954+/-0.029 χ^2/NDF : 653496.6/47

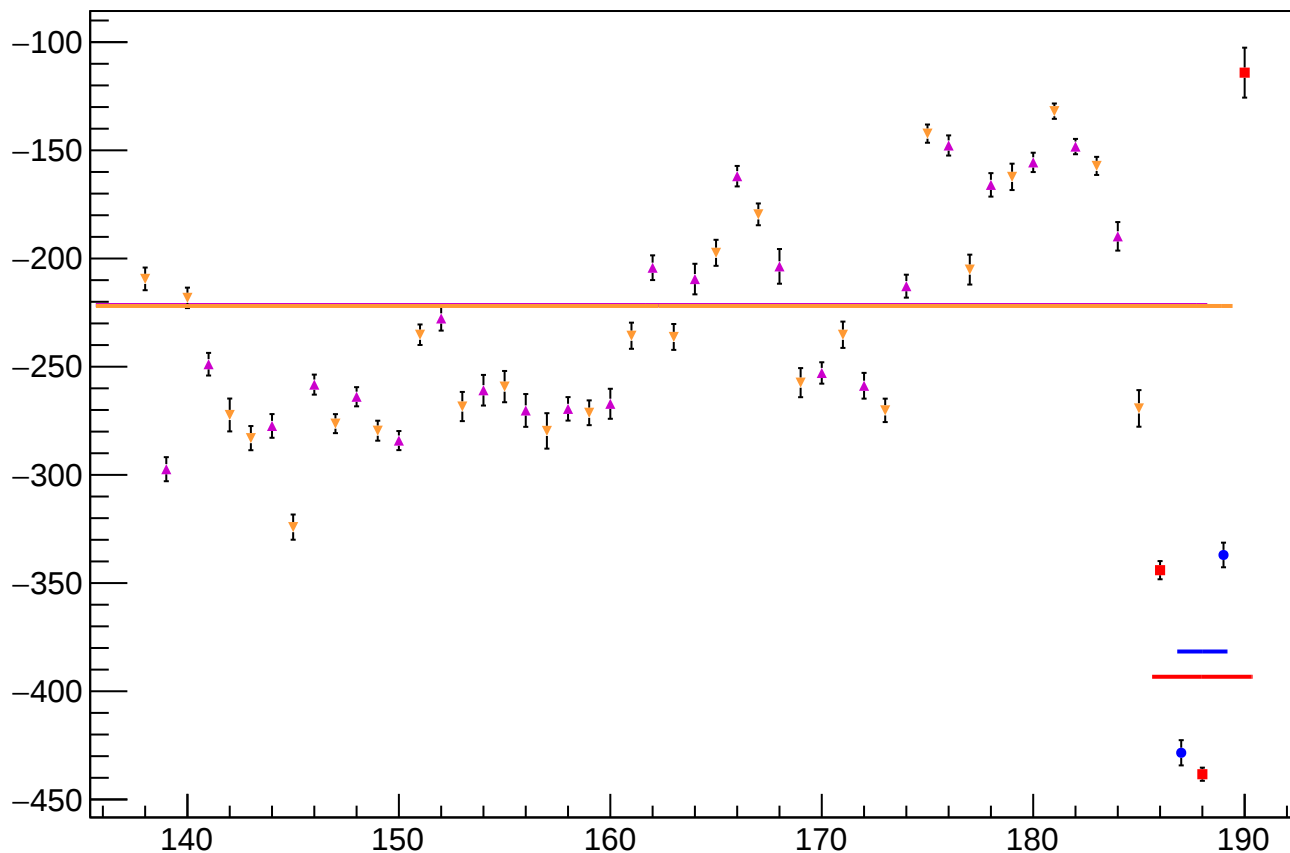
Right: 96.086+/-0.046 χ^2/NDF : 776458.8/40

In: 120.954+/-0.035 χ^2/NDF : 515748.3/41

Out: 111.541+/-0.034 χ^2/NDF : 1144289.2/46

All: 116.012+/-0.024 χ^2/NDF : 1697372.6/88

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -381.628+/-4.074 χ^2 /NDF: 125.8/1

Left Out: -221.934+/-1.084 χ^2 /NDF:2578.4/24

Right Out: -393.299+/-2.408 χ^2 /NDF: 942.2/2

Left In: -221.483+/-1.102 χ^2 /NDF:2149.8/22

Left: -221.712+/-0.773 χ^2 /NDF: 4728.2/47

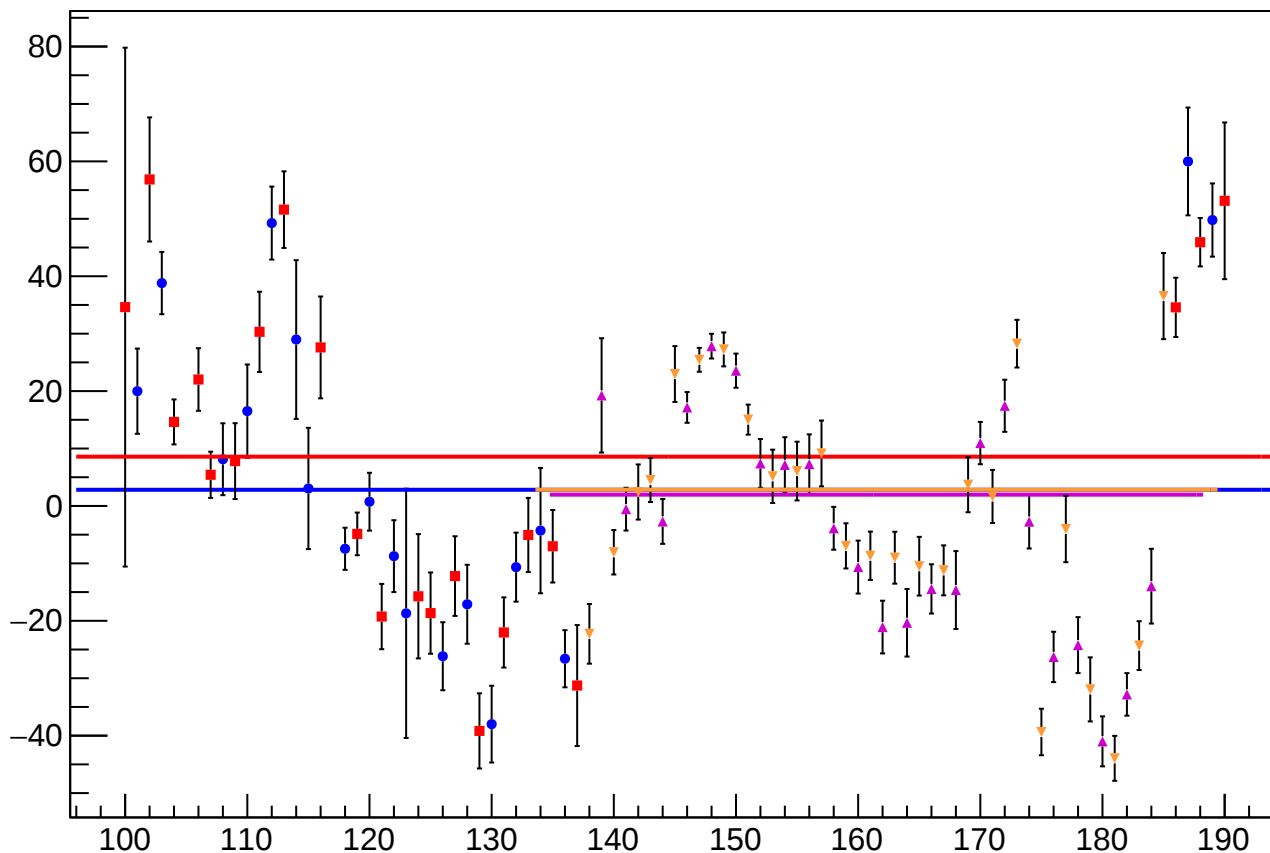
Right: -390.278+/-2.073 χ^2 /NDF: 1074.0/4

In: -232.405+/-1.064 χ^2 /NDF:3715.3/24

Out: -250.831+/-0.989 χ^2 /NDF:7731.4/27

All: -242.292+/-0.724 χ^2 /NDF: 11607.7/52

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.817 ± 1.478 $\chi^2/\text{NDF}: 323.9/18$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 8.581 ± 1.282 $\chi^2/\text{NDF}: 368.9/21$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

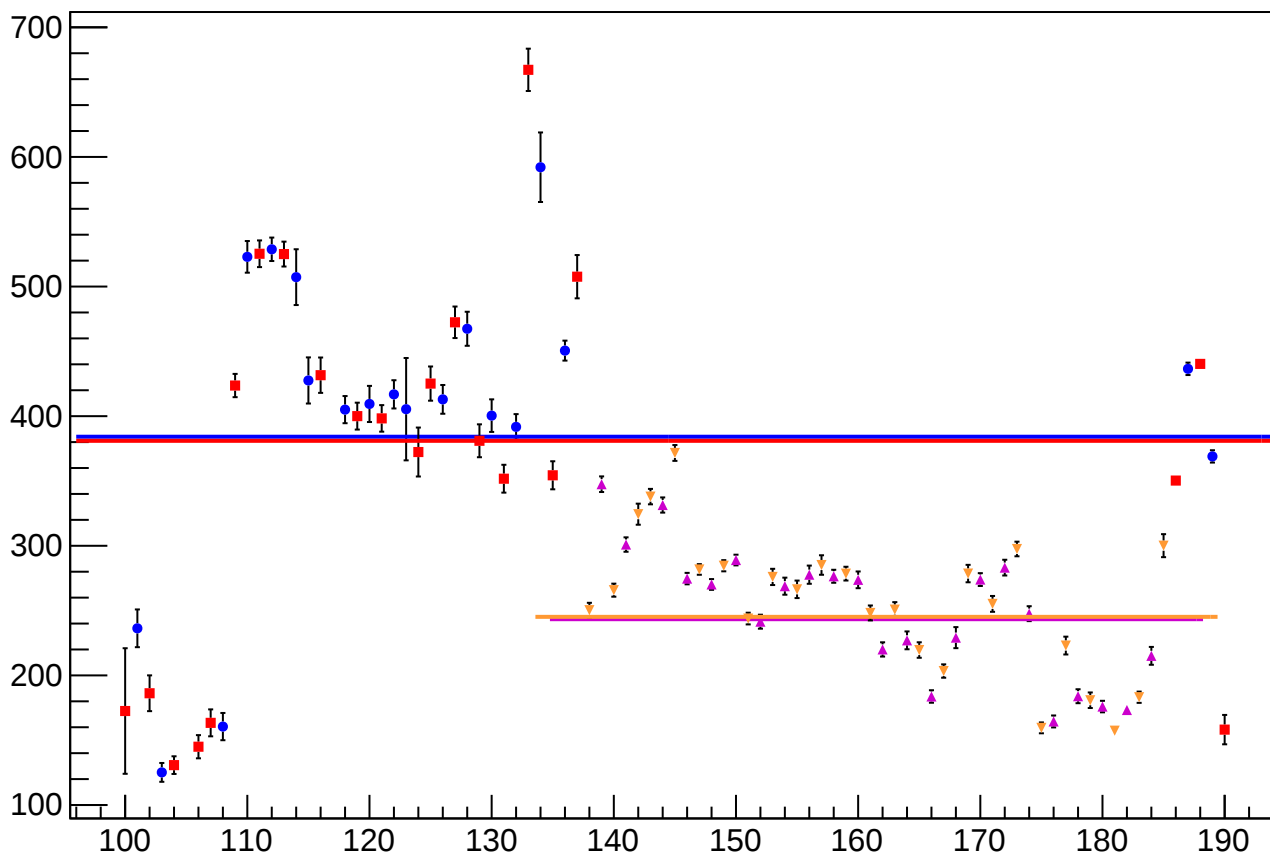
Right: 6.106 ± 0.968 $\chi^2/\text{NDF}: 701.5/40$

In: 2.174 ± 0.727 $\chi^2/\text{NDF}: 913.2/41$

Out: 4.464 ± 0.683 $\chi^2/\text{NDF}: 1070.2/46$

All: 3.390 ± 0.498 $\chi^2/\text{NDF}: 1988.7/88$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 384.145 $\pm$ 2.147 χ^2 /NDF: 2579.9/18

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 380.984 $\pm$ 1.549 χ^2 /NDF: 4673.6/21

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

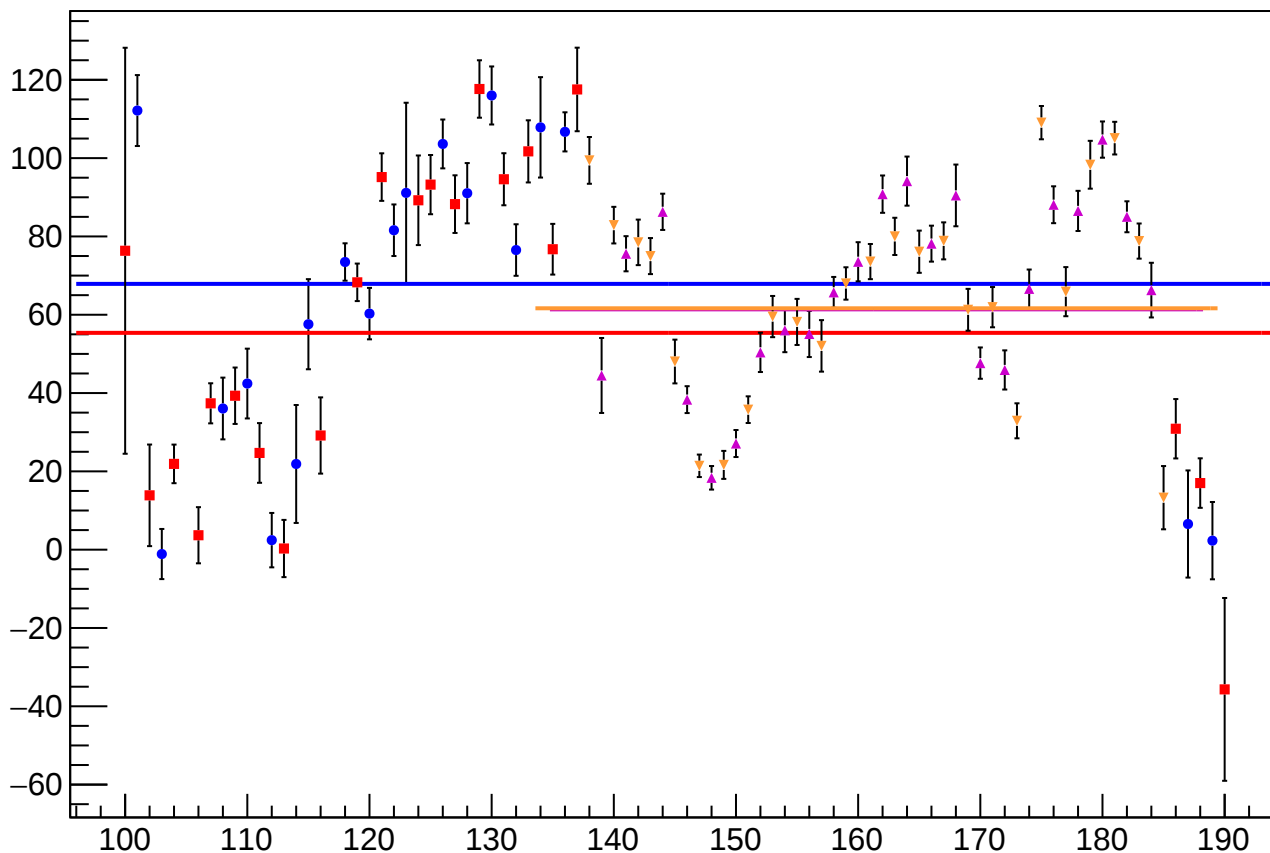
Right: 382.067 $\pm$ 1.256 χ^2 /NDF: 7254.9/40

In: 272.369 $\pm$ 0.974 χ^2 /NDF:8230.4/41

Out: 289.701 $\pm$ 0.887 χ^2 /NDF:12435.3/46

All: 281.847 $\pm$ 0.656 χ^2 /NDF: 20838.7/88

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 67.883 ± 1.726 $\chi^2/\text{NDF}: 491.4/18$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 55.376 ± 1.545 $\chi^2/\text{NDF}: 558.3/21$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

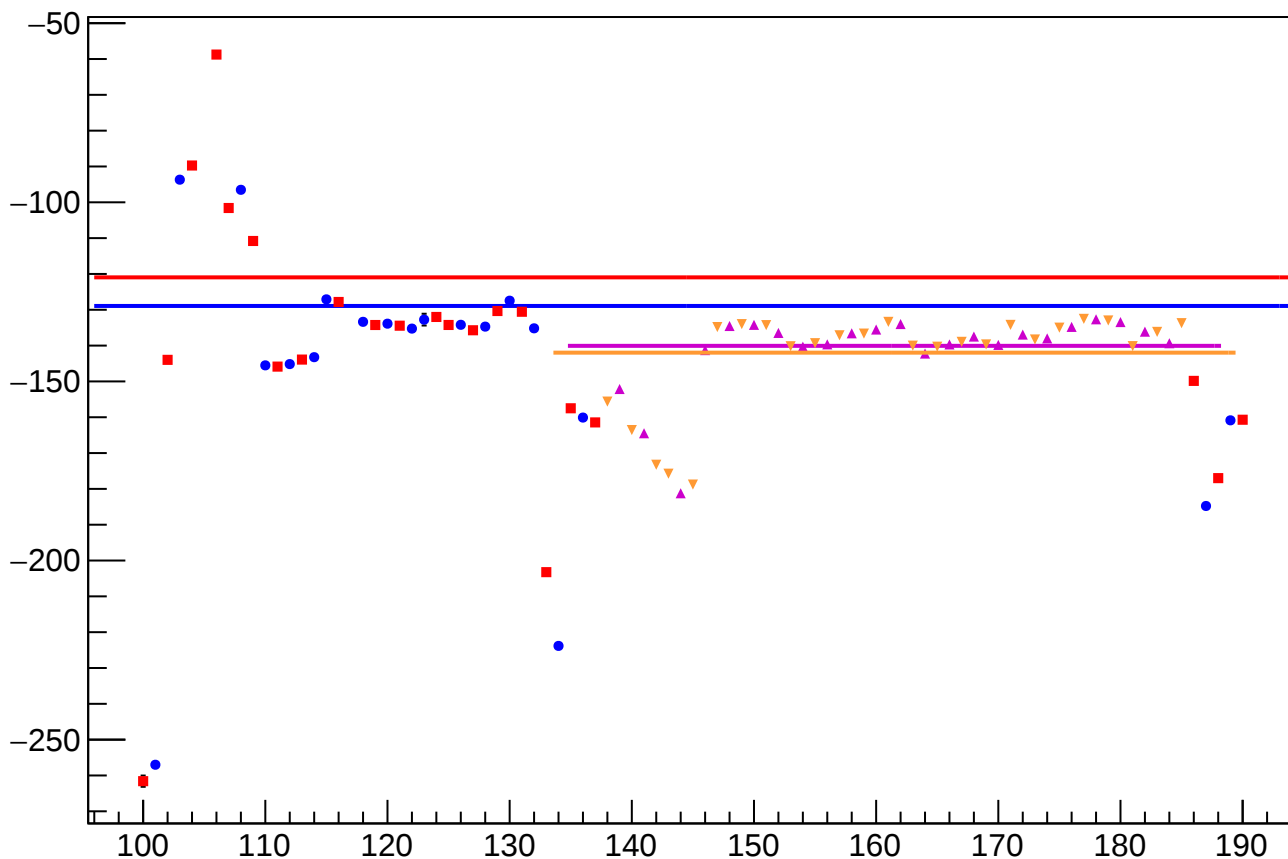
Right: 60.937 ± 1.151 $\chi^2/\text{NDF}: 1078.9/40$

In: 62.915 ± 0.840 $\chi^2/\text{NDF}: 1202.0/41$

Out: 59.963 ± 0.801 $\chi^2/\text{NDF}: 1441.9/46$

All: 61.368 ± 0.579 $\chi^2/\text{NDF}: 2650.3/88$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.934 $\pm$ 0.088 χ^2 /NDF: 177196.3/18

Left Out: -141.969 $\pm$ 0.045 χ^2 /NDF: 80252.6/24

Right Out: -120.954 $\pm$ 0.079 χ^2 /NDF: 204507.9/21

Left In: -140.068 $\pm$ 0.045 χ^2 /NDF: 48030.7/22

Left: -141.025 $\pm$ 0.032 χ^2 /NDF: 129181.1/47

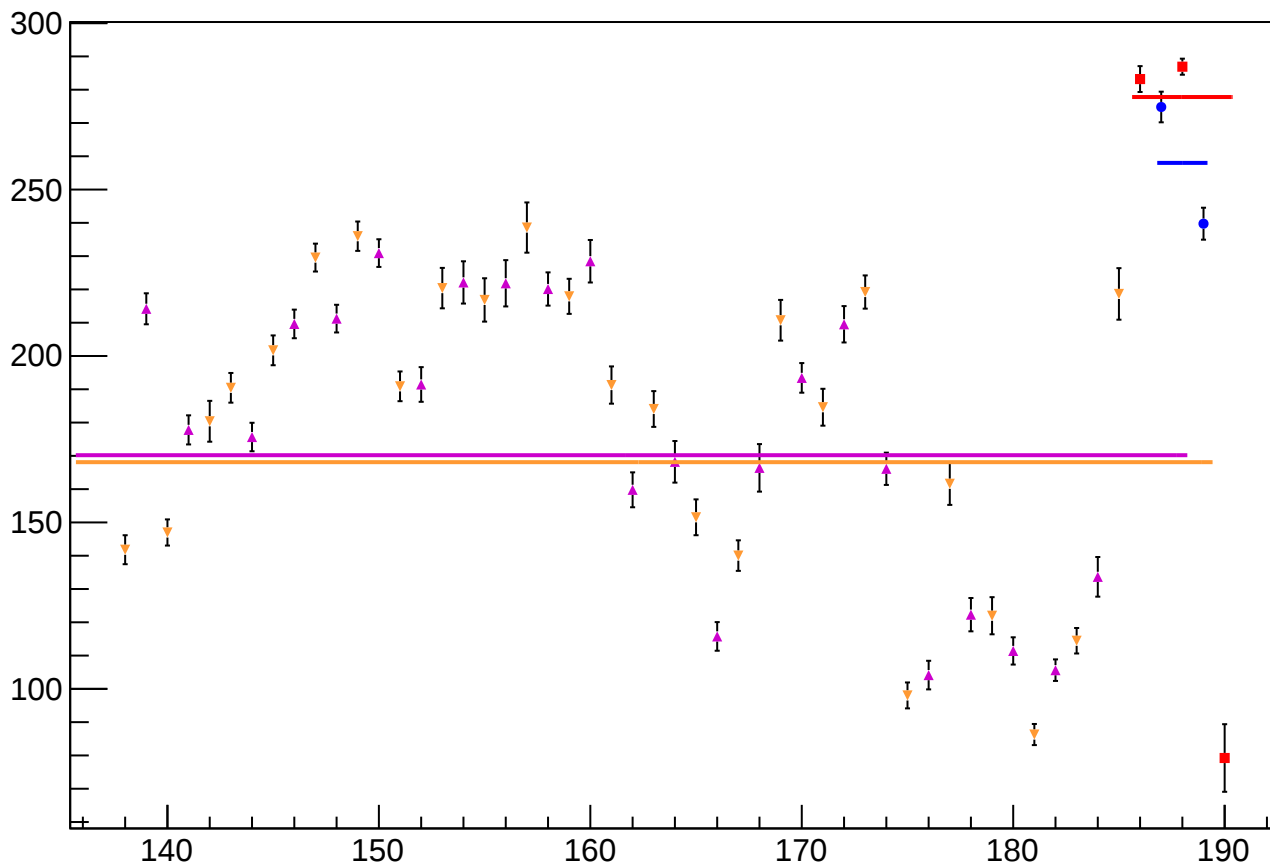
Right: -124.539 $\pm$ 0.059 χ^2 /NDF: 386262.0/40

In: -137.748 $\pm$ 0.040 χ^2 /NDF: 237983.0/41

Out: -136.895 $\pm$ 0.039 χ^2 /NDF: 338128.3/46

All: -137.309 $\pm$ 0.028 χ^2 /NDF: 576344.8/88

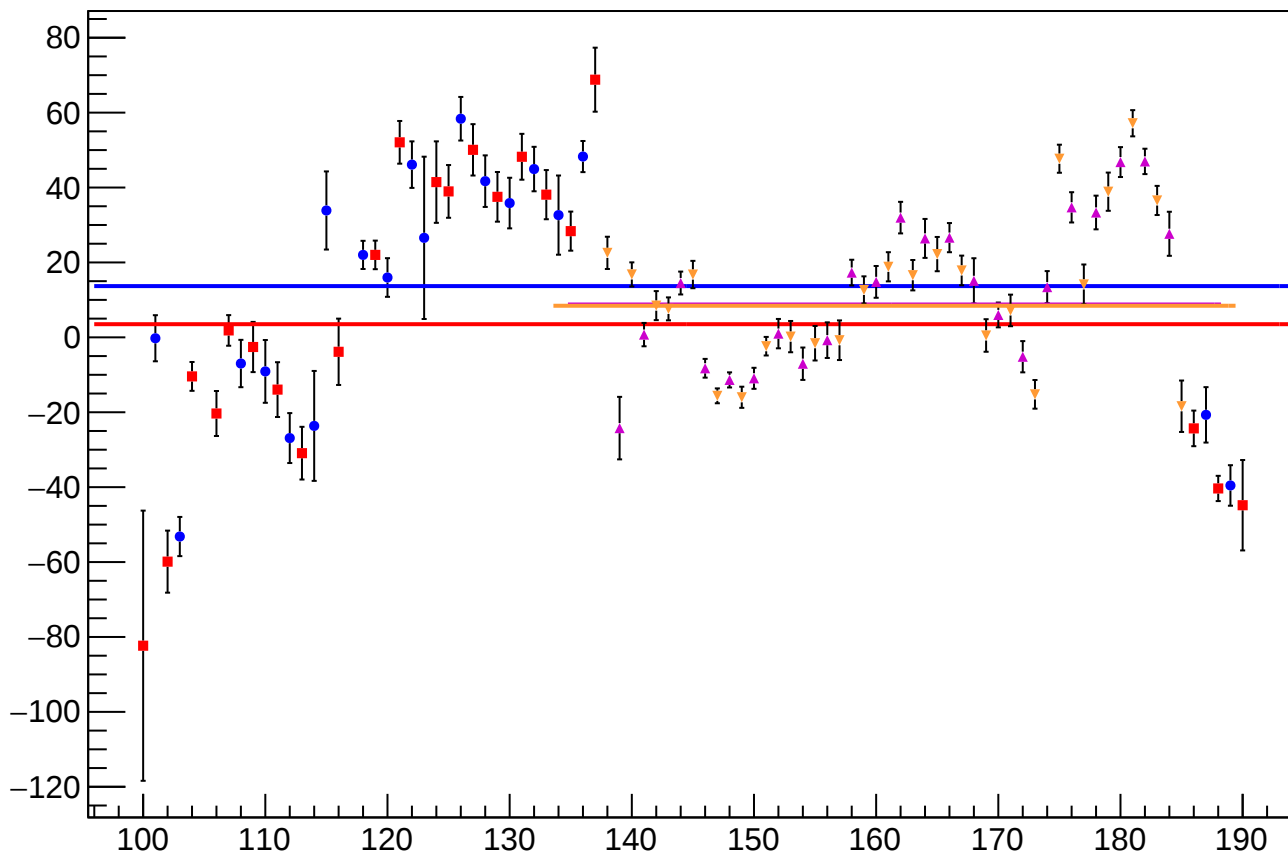
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 258.011 $\pm$ 3.322 χ^2 /NDF: 27.8/1
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 277.799 $\pm$ 2.008 χ^2 /NDF: 398.6/2
 Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47
 Right: 272.504 $\pm$ 1.718 χ^2 /NDF: 452.4/4
 In: 177.433 $\pm$ 0.953 χ^2 /NDF:2693.6/24
 Out: 188.870 $\pm$ 0.874 χ^2 /NDF:5286.9/27
 All: 183.651 $\pm$ 0.644 χ^2 /NDF: 8058.7/52

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.684 ± 1.421 $\chi^2/\text{NDF}: 571.3/18$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: 3.512 ± 1.235 $\chi^2/\text{NDF}: 712.0/21$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

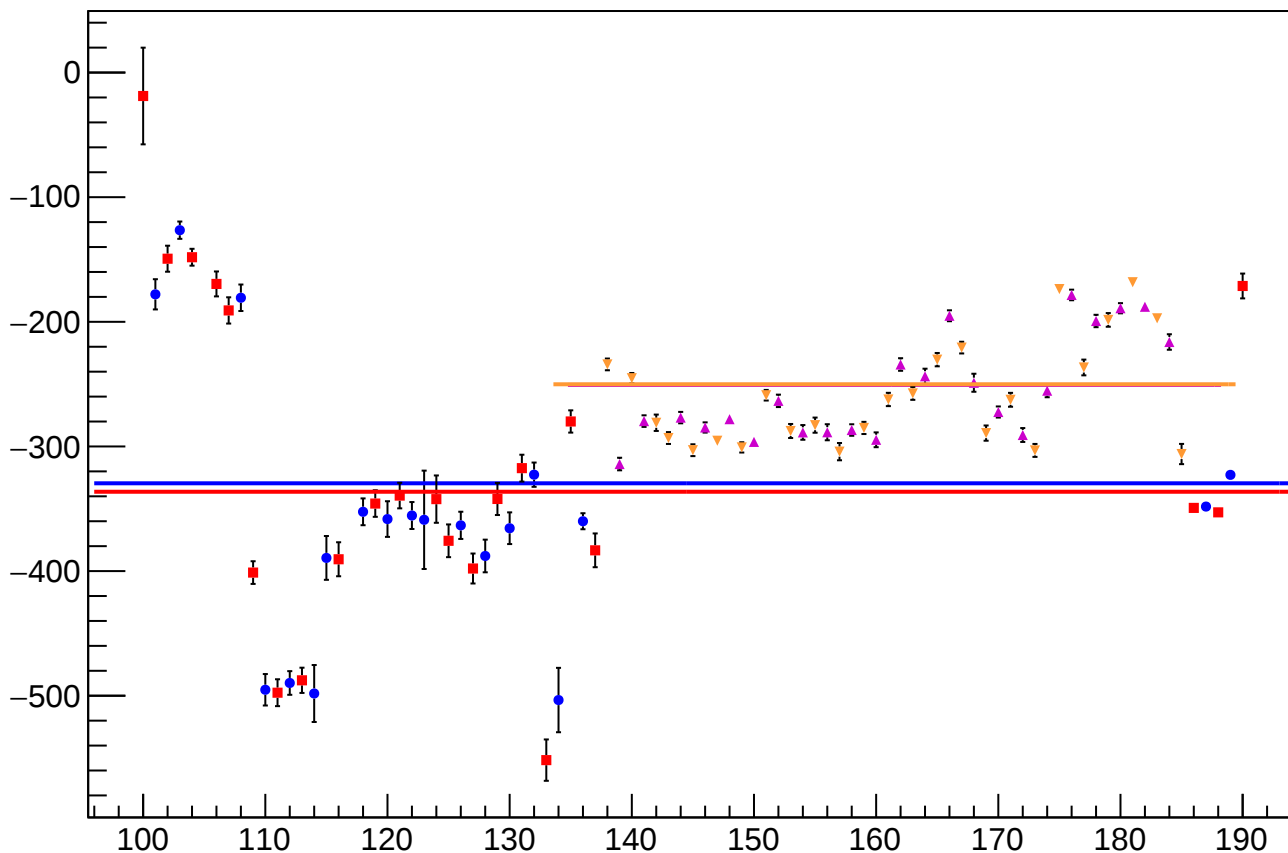
Right: 7.888 ± 0.932 $\chi^2/\text{NDF}: 1312.5/40$

In: 9.858 ± 0.669 $\chi^2/\text{NDF}: 1207.5/41$

Out: 7.166 ± 0.627 $\chi^2/\text{NDF}: 1475.9/46$

All: 8.425 ± 0.458 $\chi^2/\text{NDF}: 2692.0/88$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -329.558 ± 1.918 $\chi^2/\text{NDF}: 1879.7/18$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -336.342 ± 1.363 $\chi^2/\text{NDF}: 2770.7/21$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

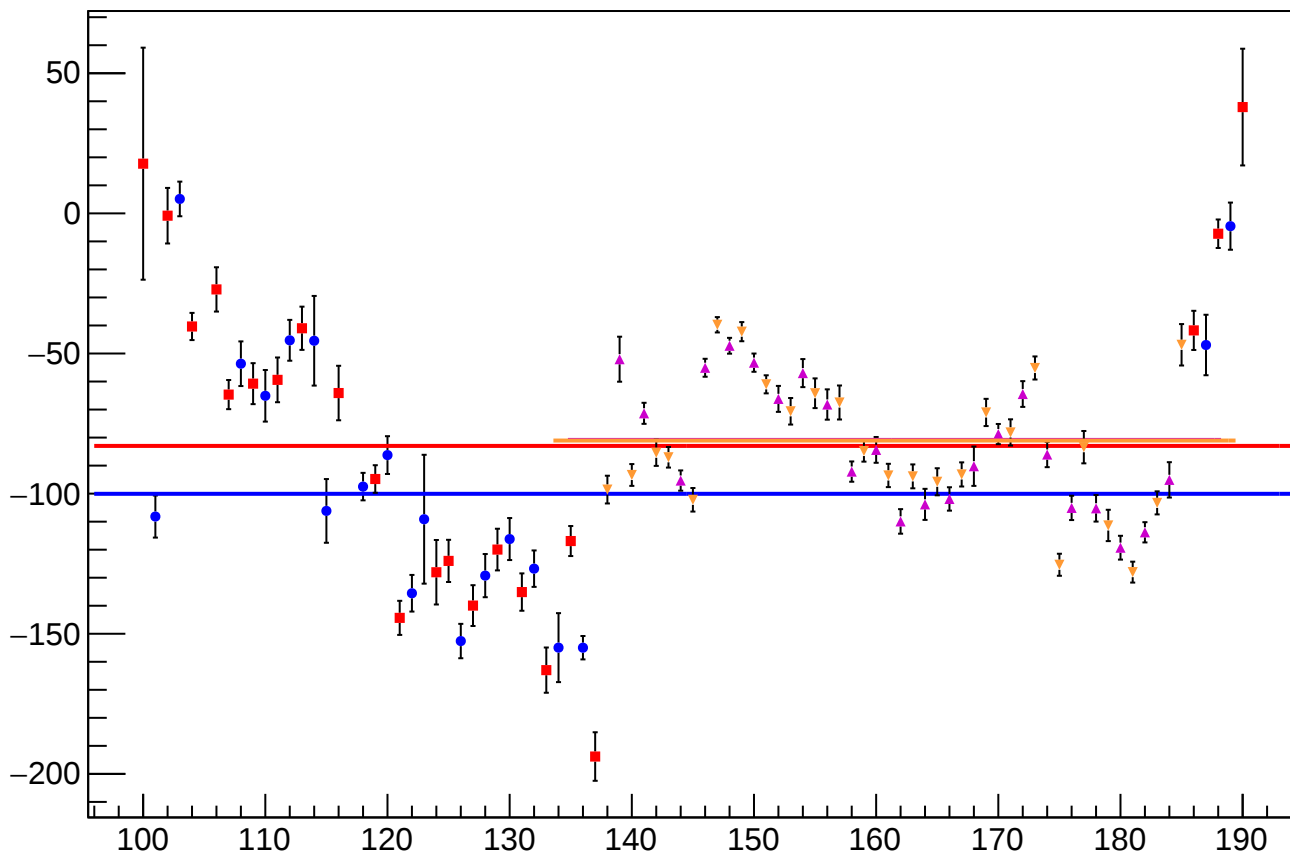
Right: -334.065 ± 1.111 $\chi^2/\text{NDF}: 4658.7/40$

In: -267.240 ± 0.880 $\chi^2/\text{NDF}: 5153.6/41$

Out: -279.190 ± 0.792 $\chi^2/\text{NDF}: 7669.0/46$

All: -273.845 ± 0.589 $\chi^2/\text{NDF}: 12924.5/88$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.064 ± 1.661 χ^2/NDF : 897.3/18

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -82.972 ± 1.497 χ^2/NDF : 1157.7/21

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

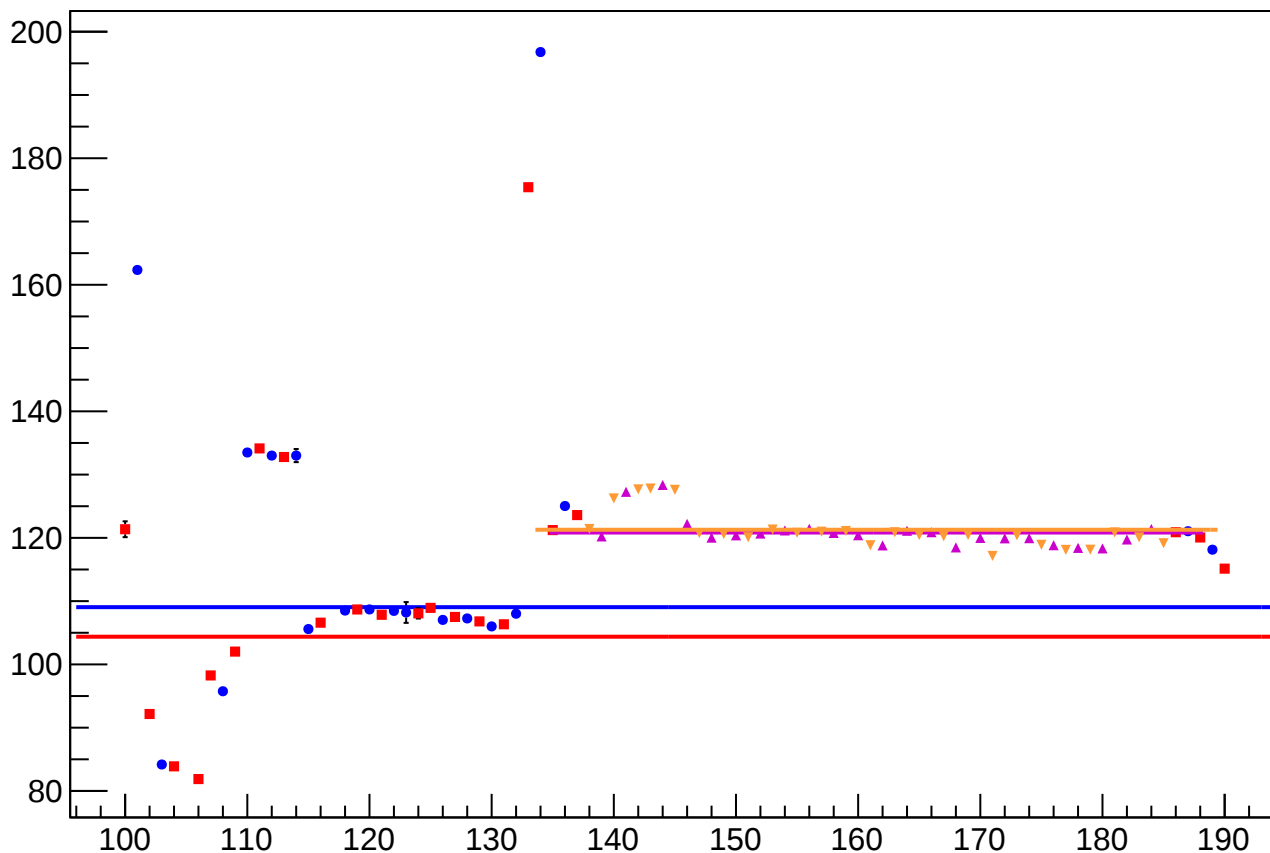
Right: -90.635 ± 1.112 χ^2/NDF : 2113.4/40

In: -84.988 ± 0.772 χ^2/NDF : 1695.5/41

Out: -81.518 ± 0.735 χ^2/NDF : 2071.9/46

All: -83.167 ± 0.532 χ^2/NDF : 3778.1/88

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 109.047 $\pm$ 0.083 χ^2 /NDF: 74154.8/18

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 104.377 $\pm$ 0.075 χ^2 /NDF: 58084.0/21

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

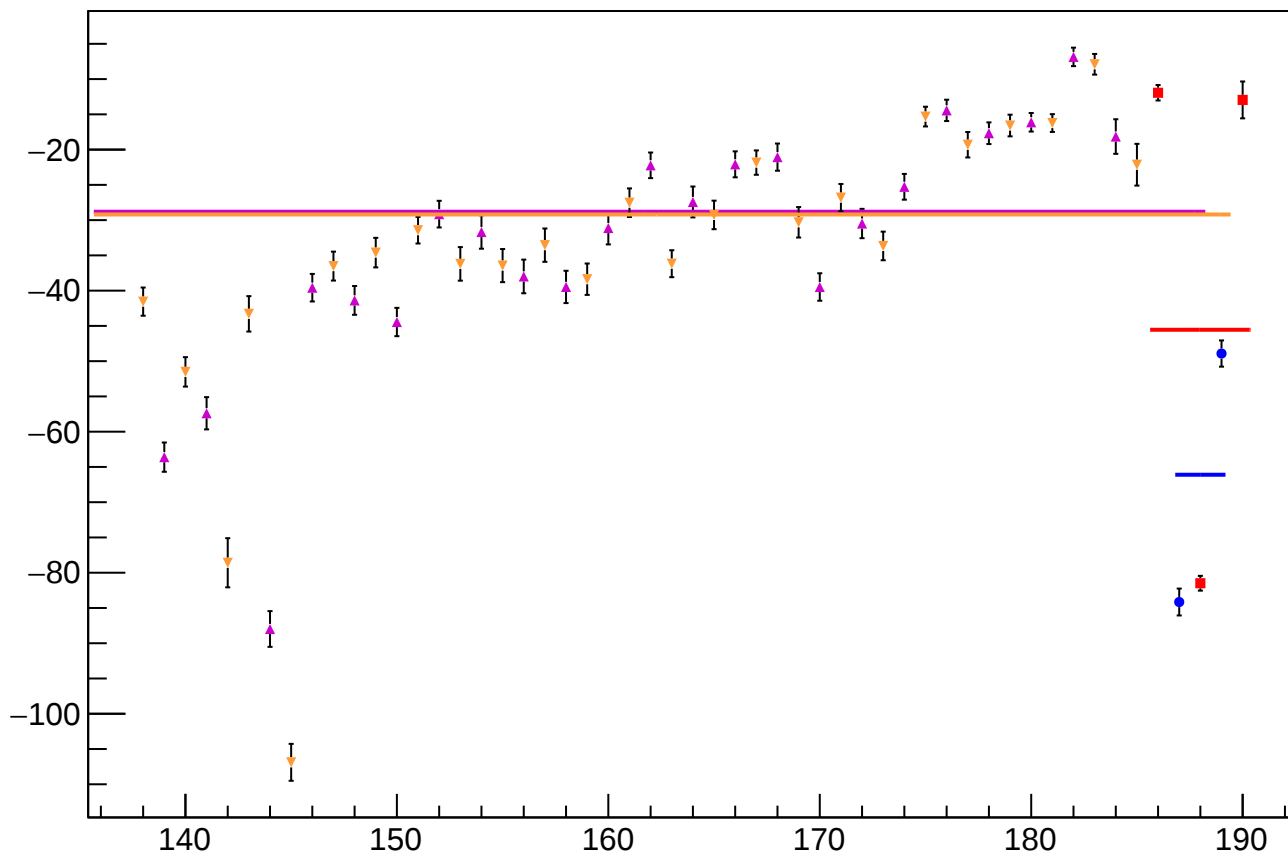
Right: 106.490 $\pm$ 0.056 χ^2 /NDF: 133986.5/40

In: 118.541 $\pm$ 0.037 χ^2 /NDF: 93917.0/41

Out: 117.535 $\pm$ 0.035 χ^2 /NDF: 102420.9/46

All: 118.023 $\pm$ 0.025 χ^2 /NDF: 196729.6/88

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected

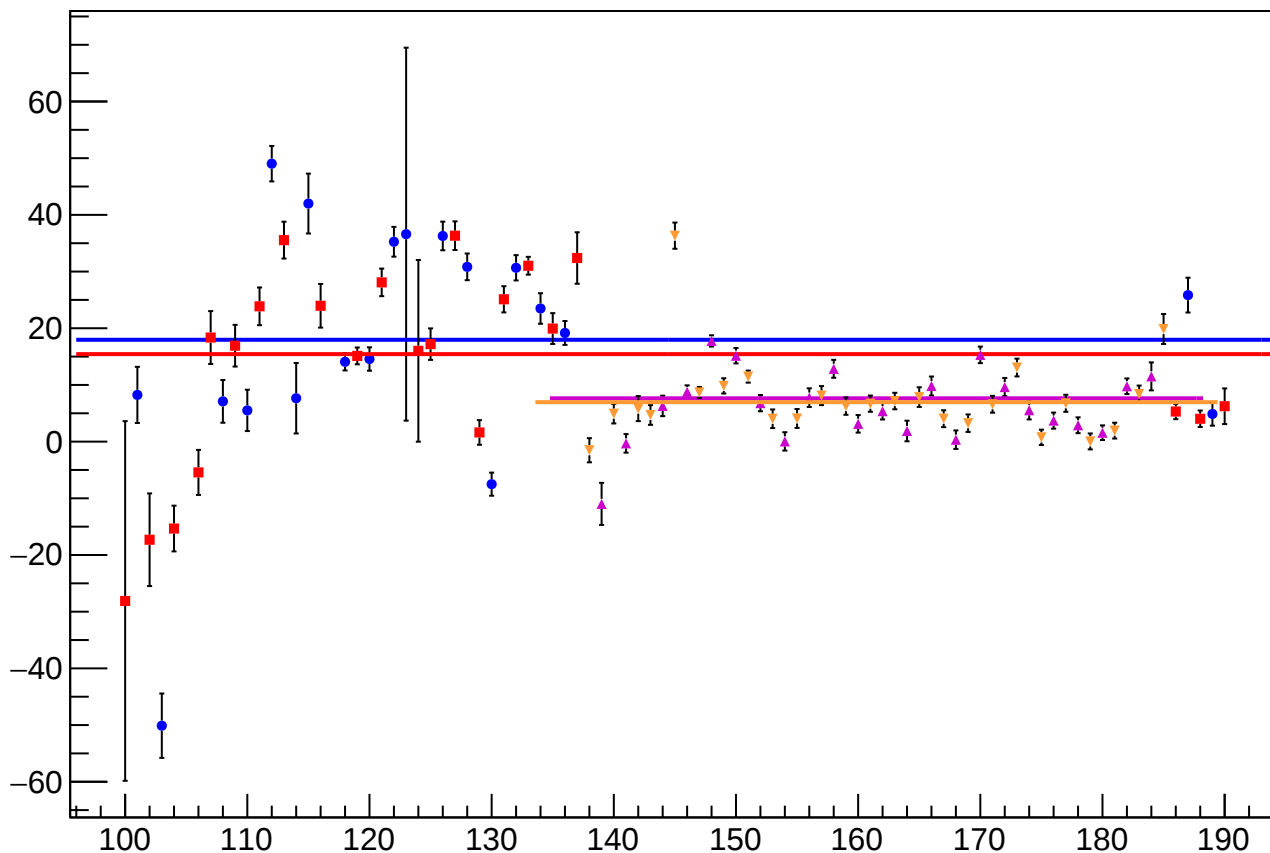


Right In: -66.105 ± 1.331 $\chi^2/\text{NDF}: 175.1/1$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -45.547 ± 0.729 $\chi^2/\text{NDF}: 2265.9/2$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$
 Right: -50.287 ± 0.639 $\chi^2/\text{NDF}: 2624.6/4$
 In: -31.833 ± 0.379 $\chi^2/\text{NDF}: 2660.4/24$
 Out: -32.820 ± 0.343 $\chi^2/\text{NDF}: 4539.4/27$

All: -32.376 ± 0.254 $\chi^2/\text{NDF}: 7203.6/52$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.965 $\pm$ 0.611 χ^2 /NDF: 665.2/18

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 15.434 $\pm$ 0.531 χ^2 /NDF: 549.6/21

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

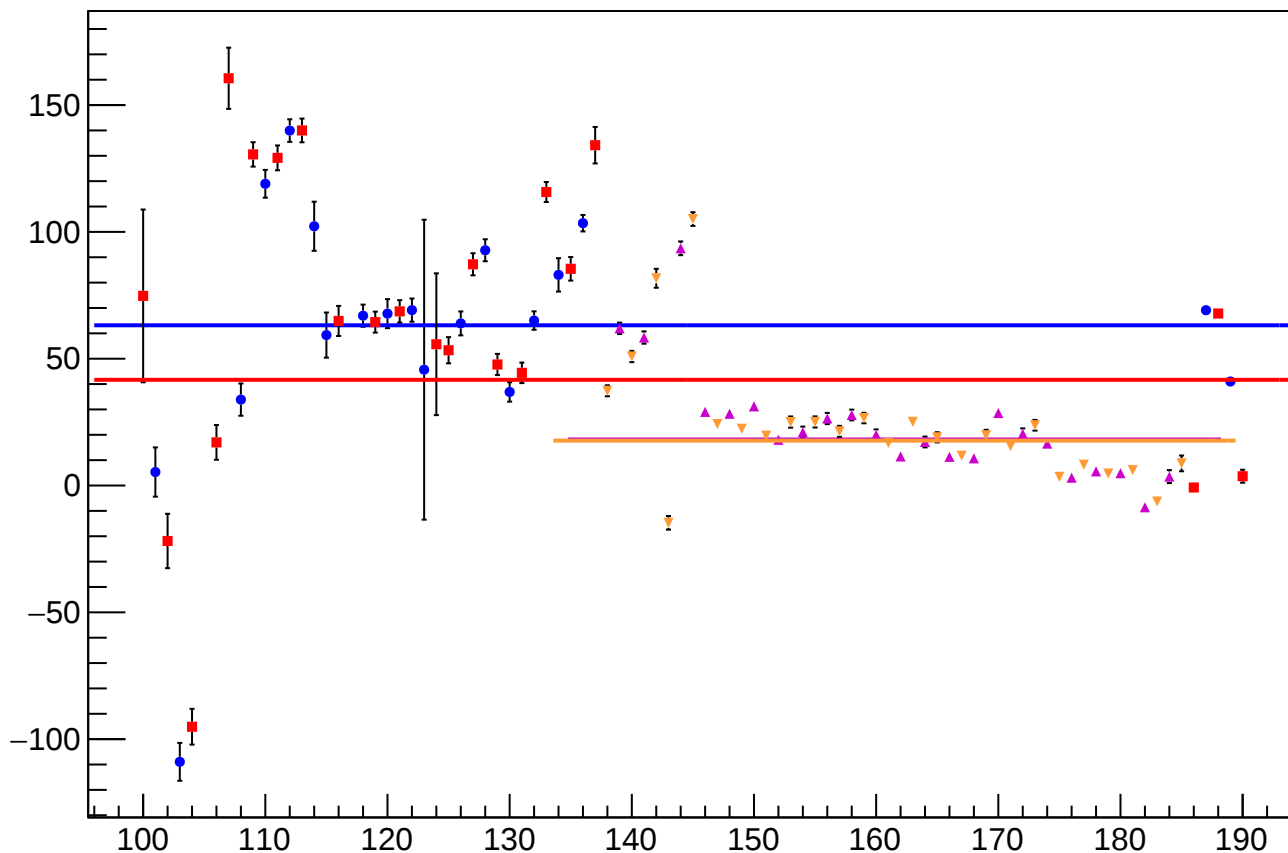
Right: 16.524 $\pm$ 0.401 χ^2 /NDF: 1224.5/40

In: 9.791 $\pm$ 0.279 χ^2 /NDF:1229.0/41

Out: 9.038 $\pm$ 0.263 χ^2 /NDF:1062.7/46

All: 9.393 $\pm$ 0.191 χ^2 /NDF: 2295.6/88

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 63.175+/-0.827 χ^2/NDF : 1478.1/18

Left Out: 17.705+/-0.387 χ^2/NDF : 2432.2/24

Right Out: 41.679+/-0.533 χ^2/NDF : 5947.1/21

Left In: 18.150+/-0.393 χ^2/NDF : 2339.4/22

Left: 17.924+/-0.276 χ^2/NDF : 4772.2/47

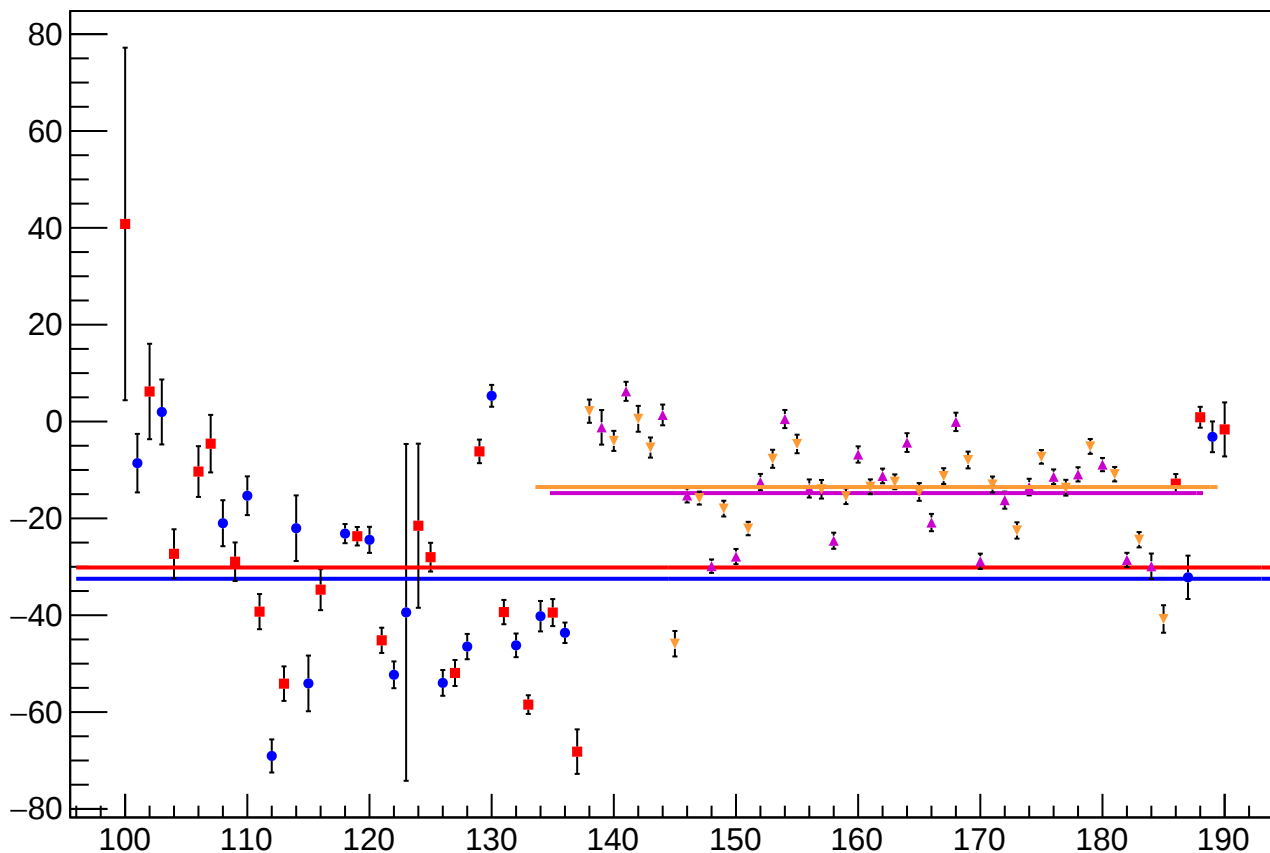
Right: 47.997+/-0.448 χ^2/NDF : 7902.7/40

In: 26.437+/-0.355 χ^2/NDF : 6238.5/41

Out: 25.981+/-0.313 χ^2/NDF : 9702.4/46

All: 26.181+/-0.235 χ^2/NDF : 15941.8/88

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.471 ± 0.717 $\chi^2/\text{NDF}: 804.8/18$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -30.140 ± 0.653 $\chi^2/\text{NDF}: 931.1/21$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

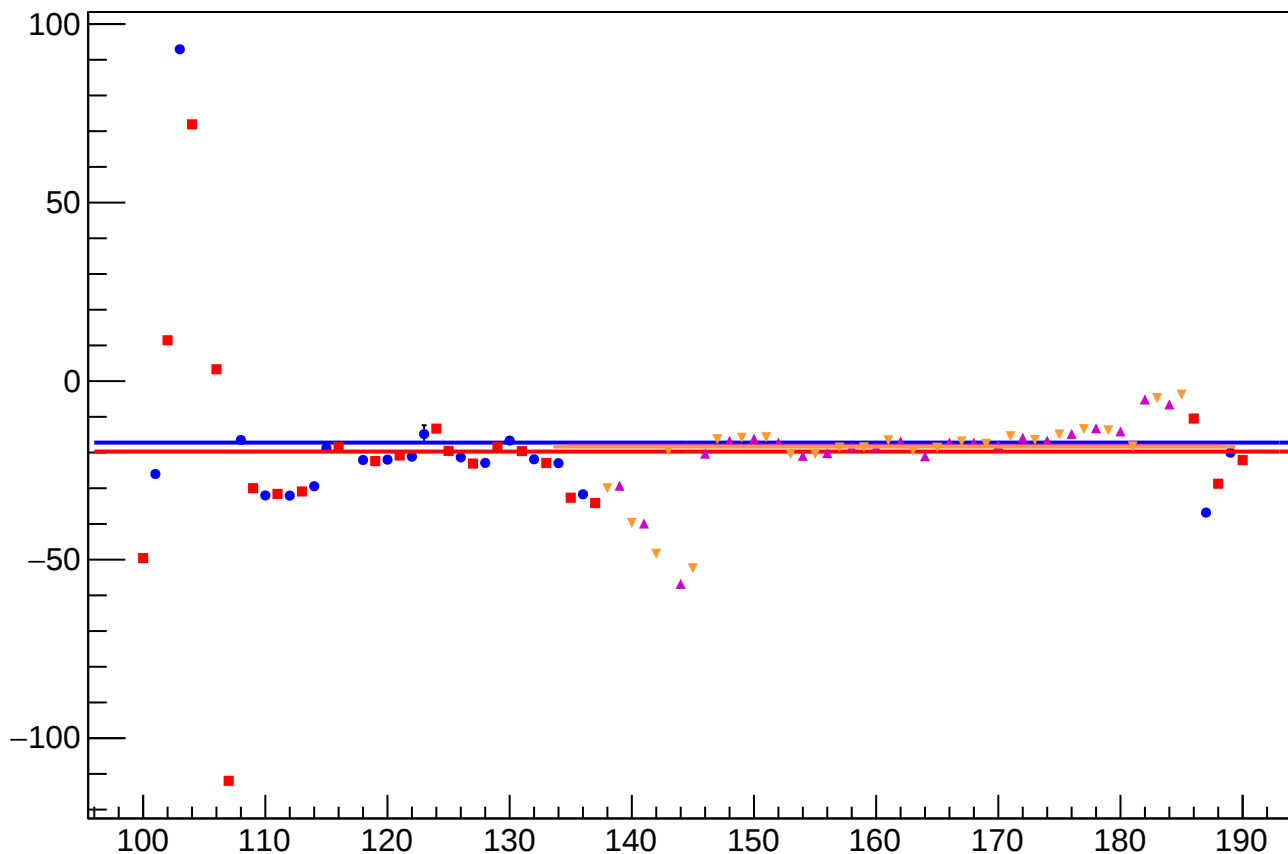
Right: -31.197 ± 0.483 $\chi^2/\text{NDF}: 1741.6/40$

In: -18.247 ± 0.318 $\chi^2/\text{NDF}: 2132.2/41$

Out: -17.136 ± 0.304 $\chi^2/\text{NDF}: 2009.8/46$

All: -17.668 ± 0.220 $\chi^2/\text{NDF}: 4148.4/88$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -17.220 ± 0.042 $\chi^2/\text{NDF}: 480917.9/18$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -19.731 ± 0.039 $\chi^2/\text{NDF}: 445818.4/21$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

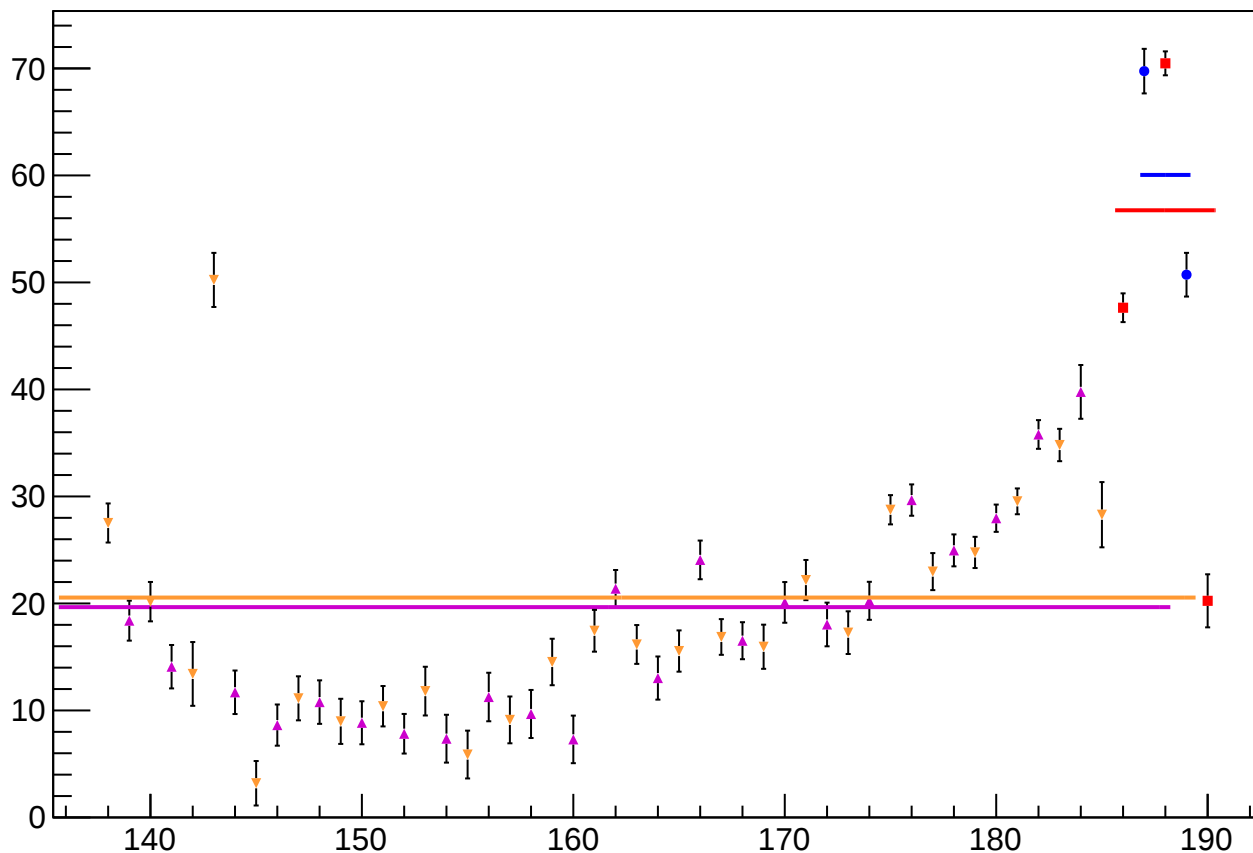
Right: -18.568 ± 0.029 $\chi^2/\text{NDF}: 928650.4/40$

In: -17.973 ± 0.015 $\chi^2/\text{NDF}: 723235.2/41$

Out: -18.531 ± 0.015 $\chi^2/\text{NDF}: 731068.8/46$

All: -18.259 ± 0.011 $\chi^2/\text{NDF}: 1455010.5/88$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 60.046 $\pm$ 1.458 χ^2 /NDF: 42.6/1

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 56.742 $\pm$ 0.812 χ^2 /NDF: 413.4/2

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF:571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

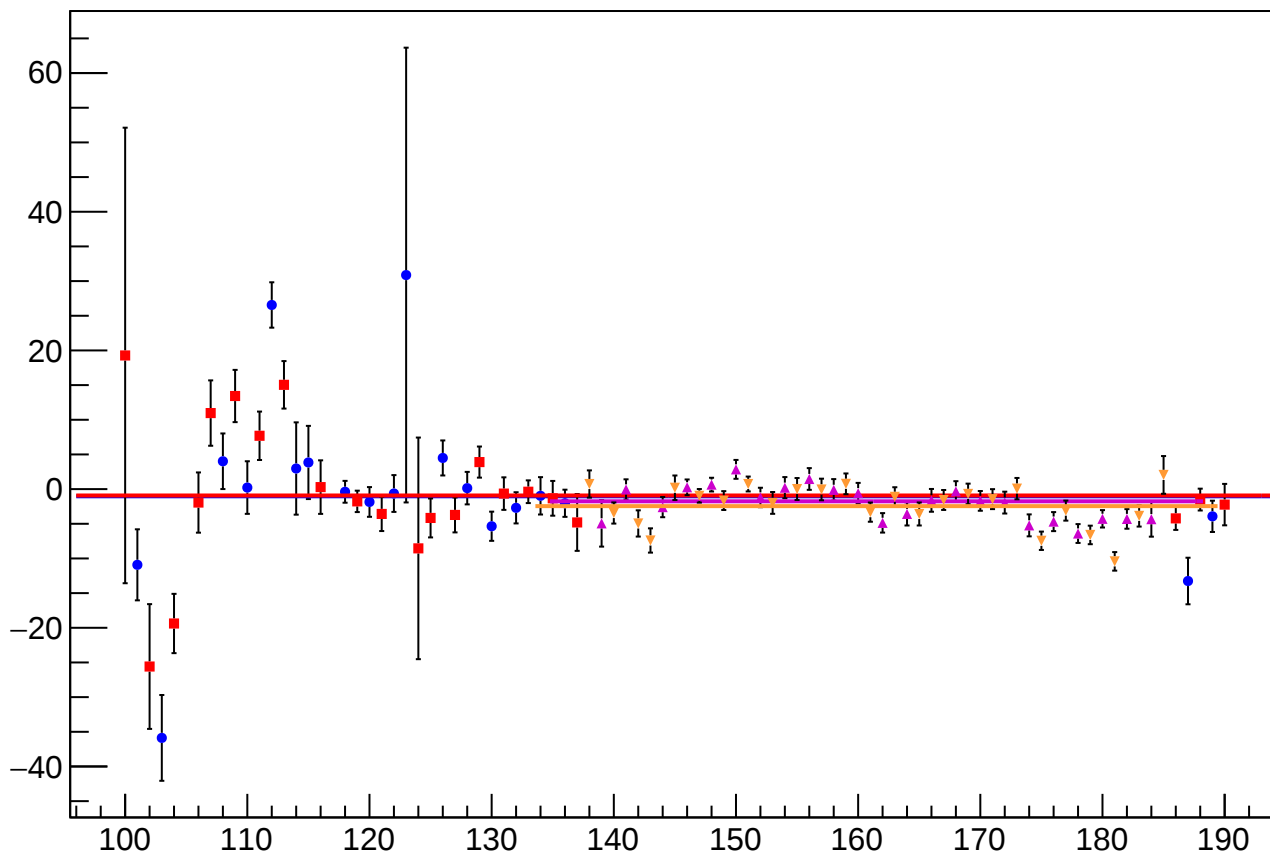
Right: 57.525 $\pm$ 0.709 χ^2 /NDF: 459.9/4

In: 22.230 $\pm$ 0.368 χ^2 /NDF:1333.0/24

Out: 26.857 $\pm$ 0.339 χ^2 /NDF:2679.8/27

All: 24.734 $\pm$ 0.249 χ^2 /NDF: 4098.3/52

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.036 ± 0.625 χ^2/NDF : 135.7/18

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -0.920 ± 0.560 χ^2/NDF : 89.6/21

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

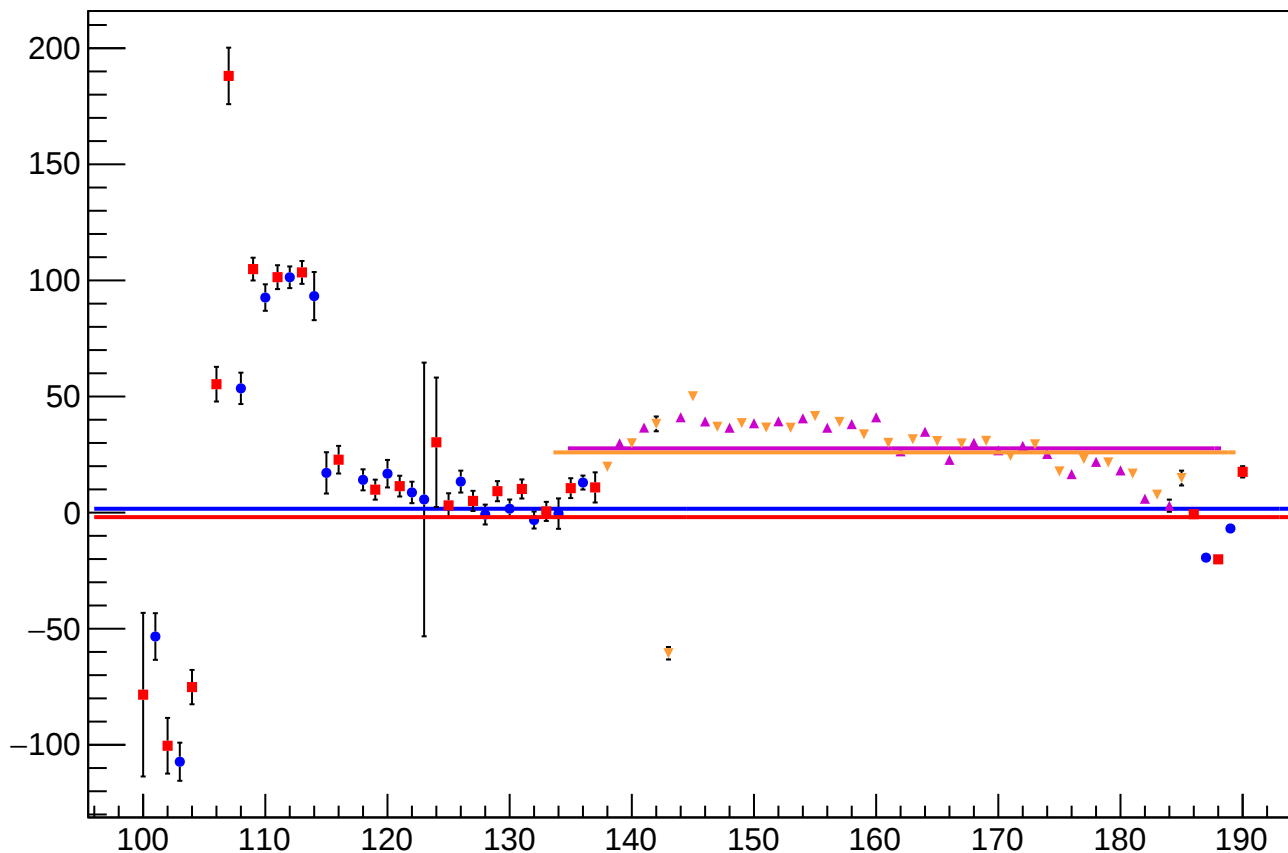
Right: -0.971 ± 0.417 χ^2/NDF : 225.2/40

In: -1.621 ± 0.272 χ^2/NDF : 204.2/41

Out: -2.126 ± 0.259 χ^2/NDF : 201.4/46

All: -1.886 ± 0.188 χ^2/NDF : 407.4/88

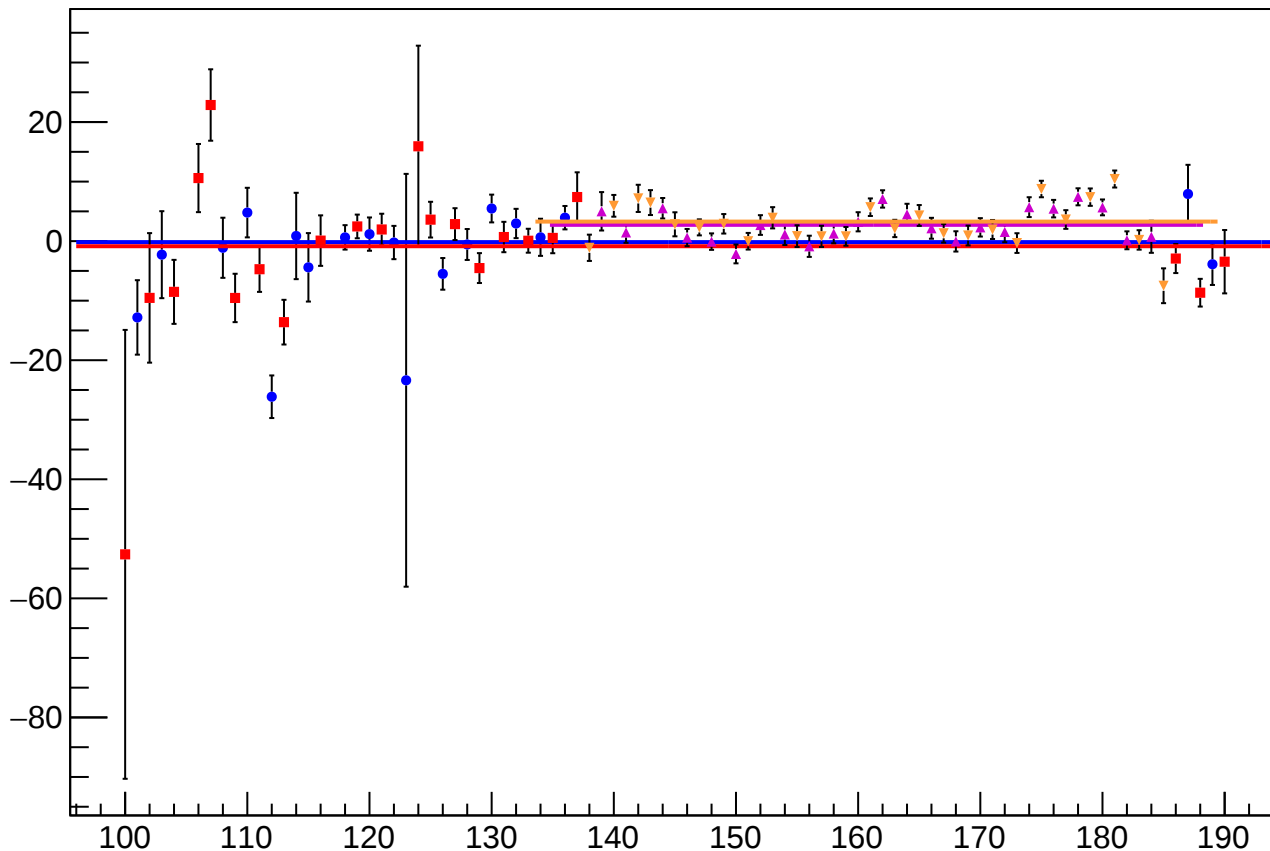
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.662 ± 0.873 $\chi^2/\text{NDF}: 1270.9/18$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -1.942 ± 0.587 $\chi^2/\text{NDF}: 2347.3/21$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: -0.821 ± 0.487 $\chi^2/\text{NDF}: 3630.0/40$
 In: 23.568 ± 0.347 $\chi^2/\text{NDF}: 2822.0/41$
 Out: 17.930 ± 0.314 $\chi^2/\text{NDF}: 5669.4/46$
 All: 20.471 ± 0.233 $\chi^2/\text{NDF}: 8636.4/88$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.165 ± 0.728 χ^2/NDF : 79.5/18

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -0.856 ± 0.679 χ^2/NDF : 69.6/21

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

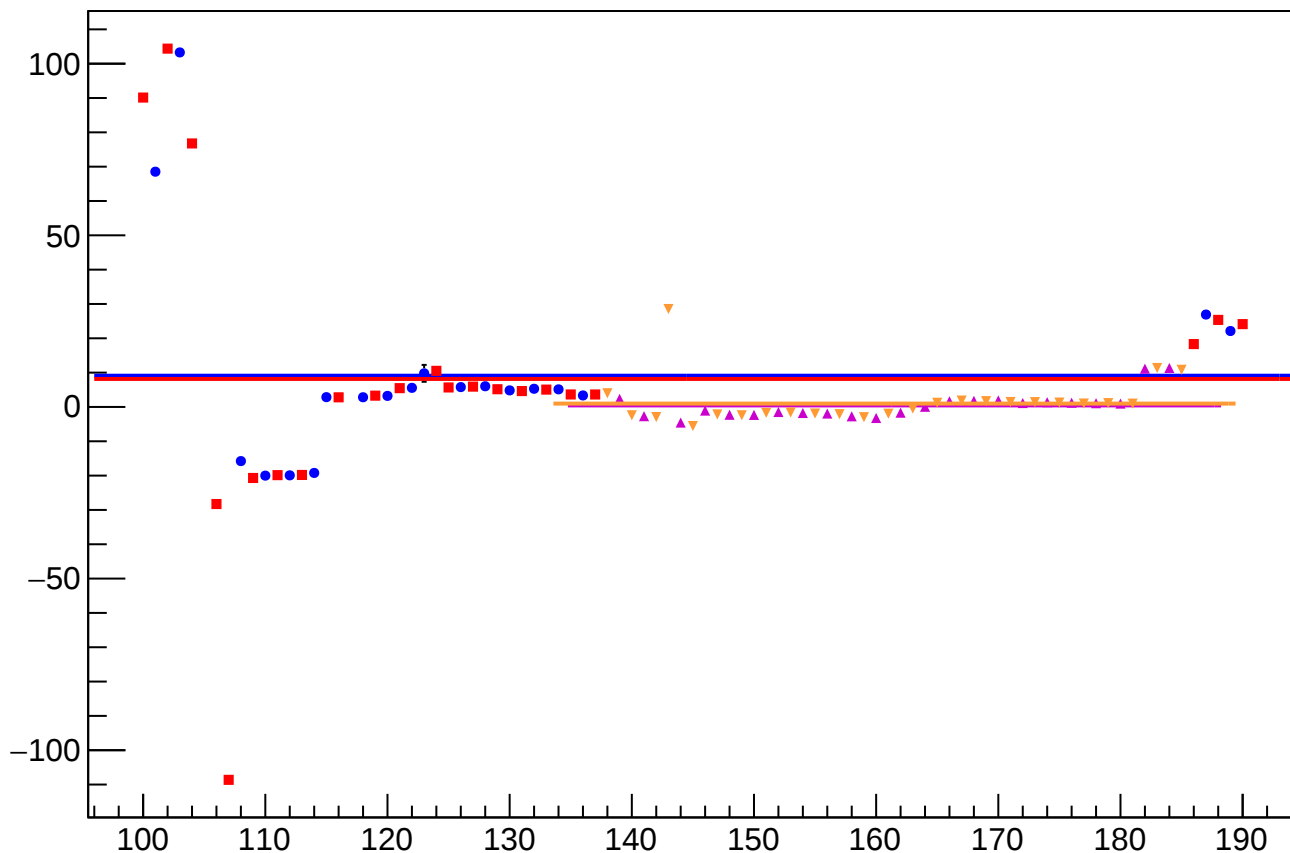
Right: -0.534 ± 0.497 χ^2/NDF : 149.7/40

In: 2.215 ± 0.309 χ^2/NDF : 157.1/41

Out: 2.487 ± 0.298 χ^2/NDF : 201.9/46

All: 2.356 ± 0.214 χ^2/NDF : 359.3/88

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 9.098+/-0.042 χ^2/NDF : 368587.9/18

Left Out: 0.979+/-0.015 χ^2/NDF :117391.3/24

Right Out: 8.159+/-0.040 χ^2/NDF : 556310.9/21

Left In: 0.451+/-0.015 χ^2/NDF :50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

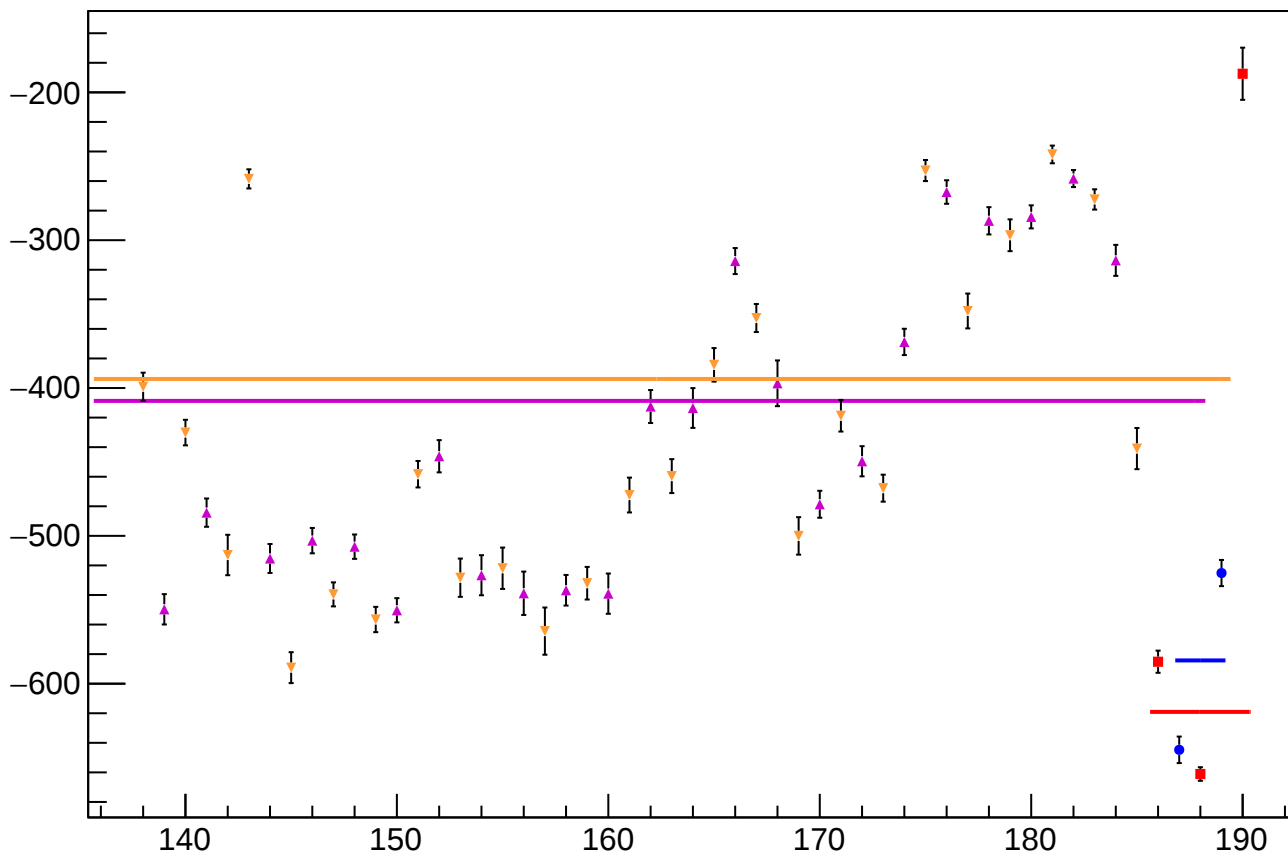
Right: 8.602+/-0.029 χ^2/NDF : 925158.9/40

In: 1.464+/-0.014 χ^2/NDF :456071.1/41

Out: 1.884+/-0.014 χ^2/NDF :701857.2/46

All: 1.678+/-0.010 χ^2/NDF : 1158356.3/88

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -584.264+/-6.302 χ^2/NDF : 90.0/1

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -619.077+/-3.824 χ^2/NDF : 702.9/2

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

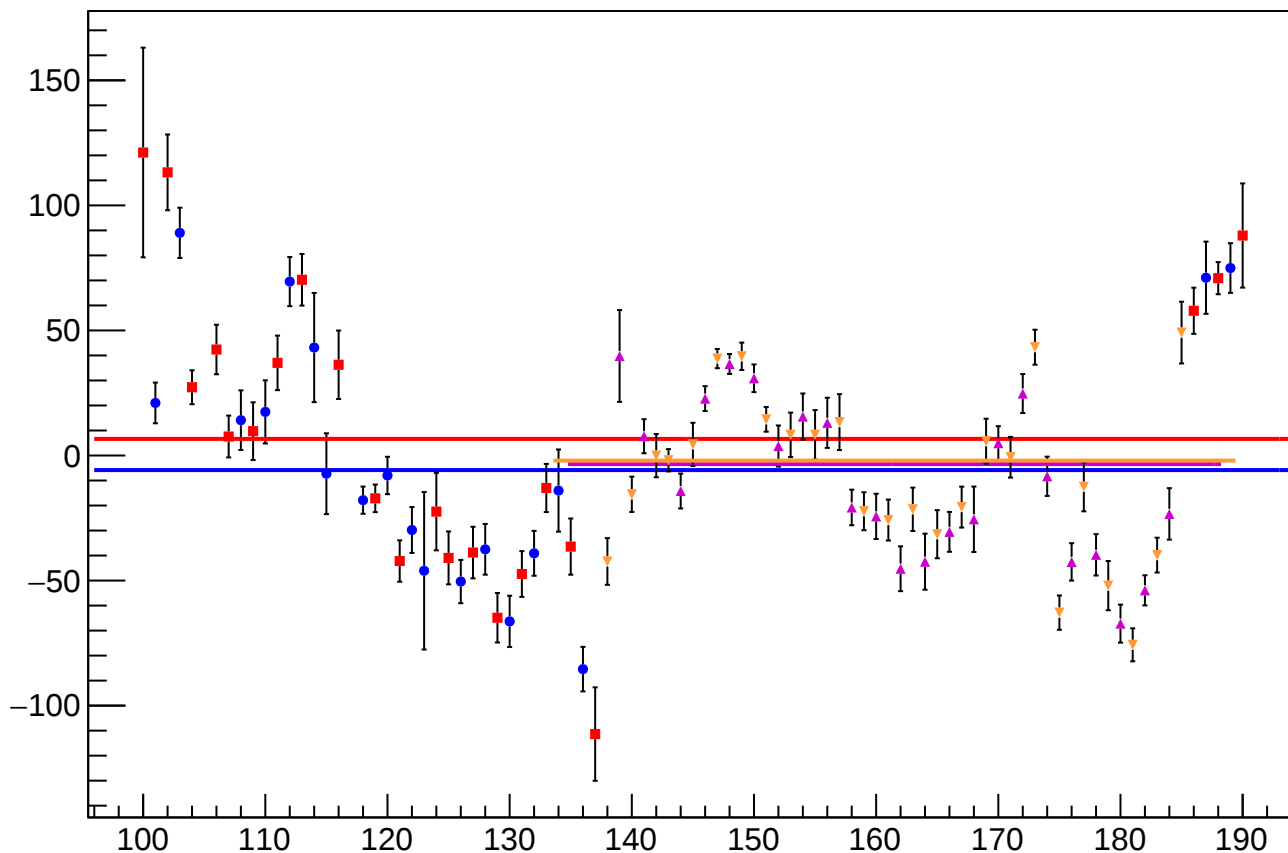
Right: -609.710+/-3.269 χ^2/NDF : 815.2/4

In: -424.453+/-1.888 χ^2/NDF : 3859.3/24

Out: -438.350+/-1.699 χ^2/NDF : 7259.2/27

All: -432.131+/-1.263 χ^2/NDF : 11148.4/52

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.828 ± 2.261 $\chi^2/\text{NDF}: 443.0/18$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 6.643 ± 2.068 $\chi^2/\text{NDF}: 518.4/21$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

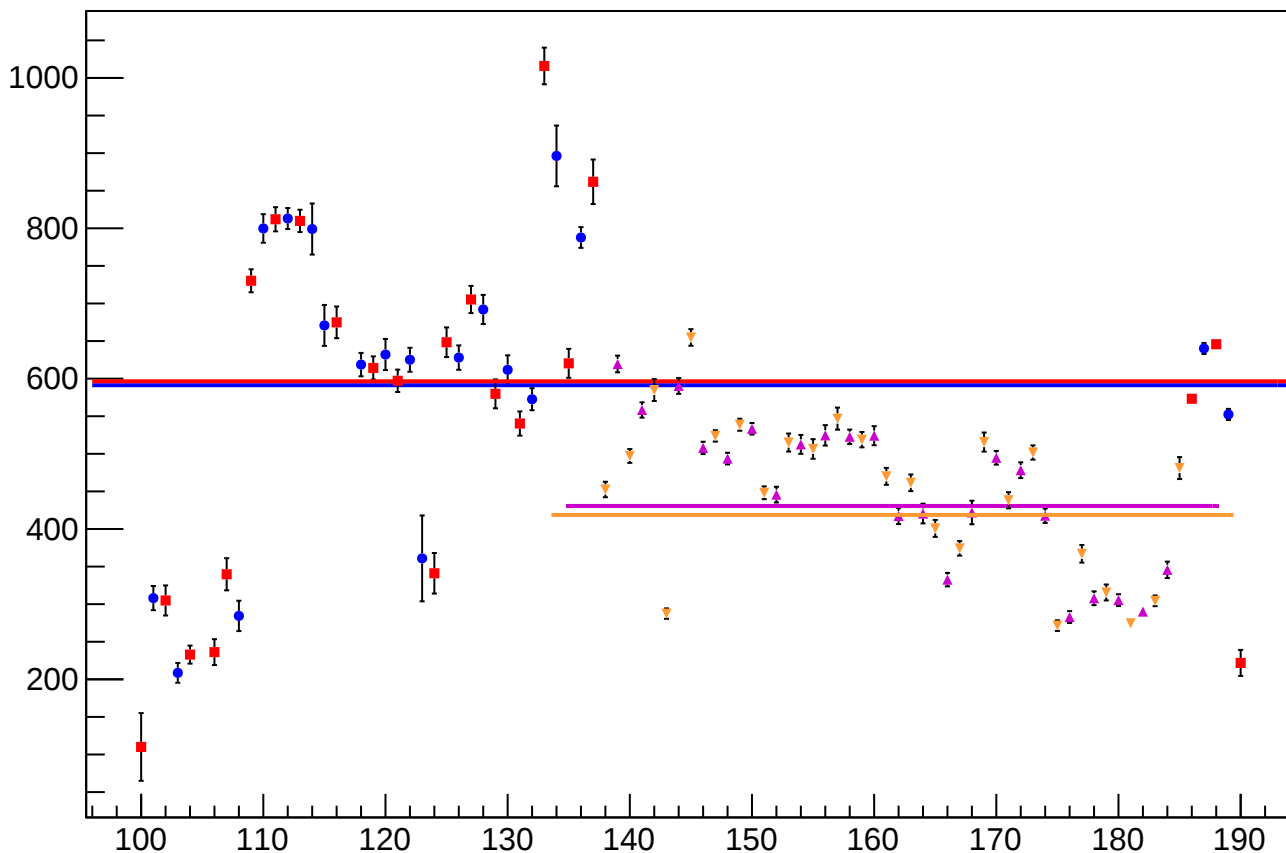
Right: 0.963 ± 1.526 $\chi^2/\text{NDF}: 977.9/40$

In: -4.169 ± 1.262 $\chi^2/\text{NDF}: 894.7/41$

Out: 0.755 ± 1.173 $\chi^2/\text{NDF}: 1094.1/46$

All: -1.528 ± 0.859 $\chi^2/\text{NDF}: 1997.0/88$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 591.254+/-3.346 χ^2/NDF : 2199.6/18

Left Out: 418.680+/-1.905 χ^2/NDF : 3296.5/24

Right Out: 596.460+/-2.477 χ^2/NDF : 3494.9/21

Left In: 430.640+/-1.971 χ^2/NDF : 2850.6/22

Left: 424.457+/-1.370 χ^2/NDF : 6166.1/47

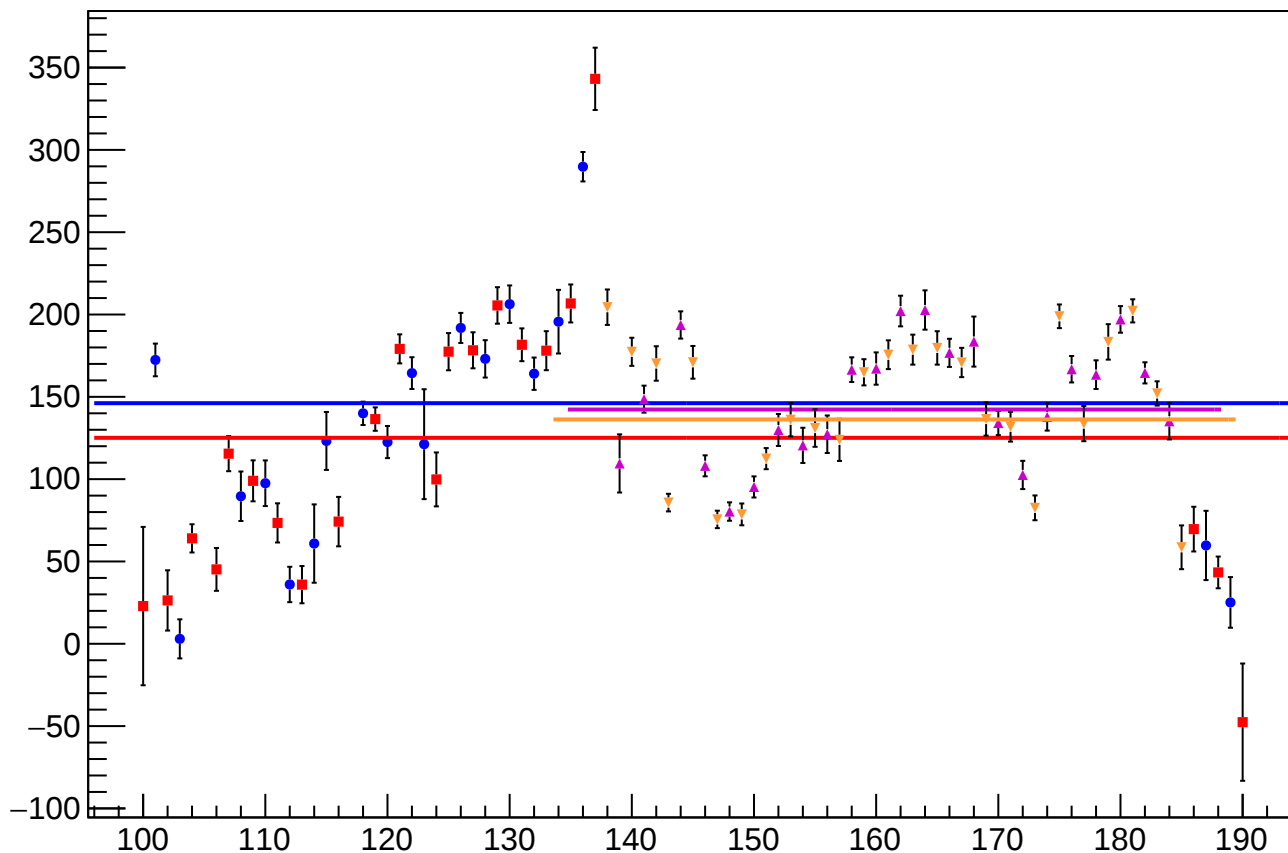
Right: 594.617+/-1.991 χ^2/NDF : 5696.0/40

In: 472.000+/-1.698 χ^2/NDF : 6760.6/41

Out: 484.738+/-1.510 χ^2/NDF : 10027.8/46

All: 479.113+/-1.128 χ^2/NDF : 16819.8/88

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 146.147 ± 2.652 $\chi^2/\text{NDF}: 714.7/18$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 125.104 ± 2.479 $\chi^2/\text{NDF}: 707.0/21$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

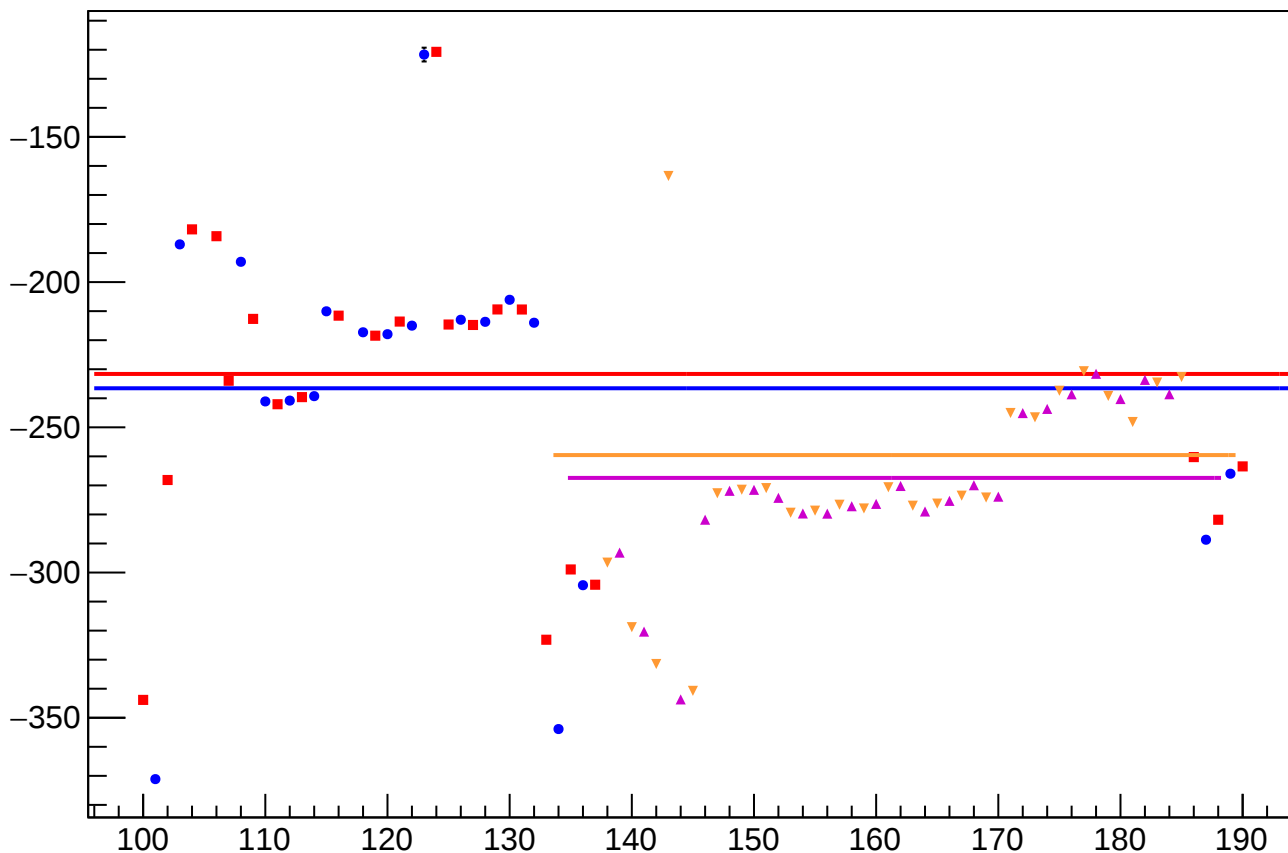
Right: 134.916 ± 1.811 $\chi^2/\text{NDF}: 1455.3/40$

In: 143.459 ± 1.458 $\chi^2/\text{NDF}: 1175.9/41$

Out: 132.831 ± 1.374 $\chi^2/\text{NDF}: 1479.4/46$

All: 137.832 ± 1.000 $\chi^2/\text{NDF}: 2683.5/88$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -236.554+/-0.145 χ^2/NDF : 148708.8/18

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -231.623+/-0.134 χ^2/NDF : 111731.8/21

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

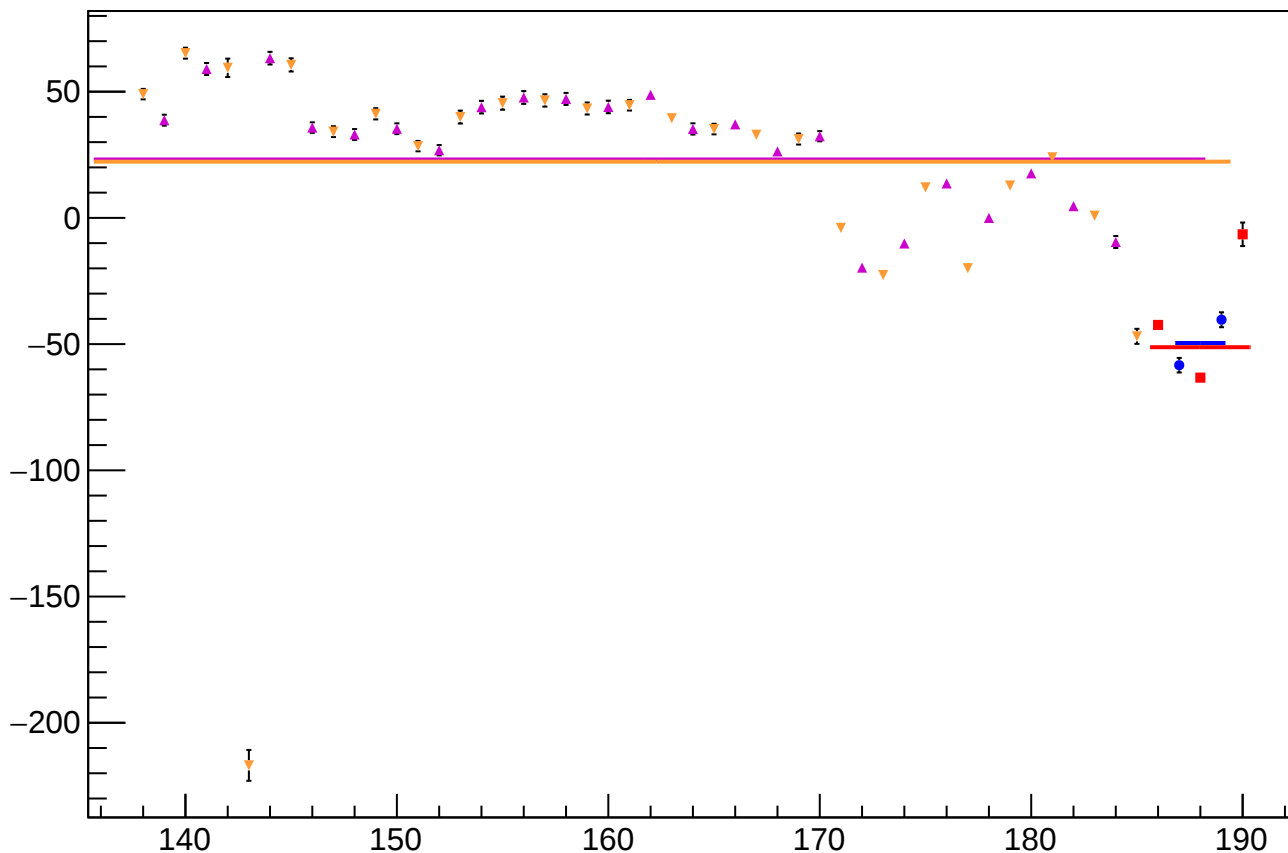
Right: -233.892+/-0.098 χ^2/NDF : 261063.4/40

In: -259.996+/-0.071 χ^2/NDF : 281082.5/41

Out: -252.343+/-0.068 χ^2/NDF : 382181.7/46

All: -256.001+/-0.049 χ^2/NDF : 669298.0/88

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -49.557 ± 2.066 $\chi^2/\text{NDF}: 19.0/1$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -51.227 ± 1.129 $\chi^2/\text{NDF}: 177.3/2$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

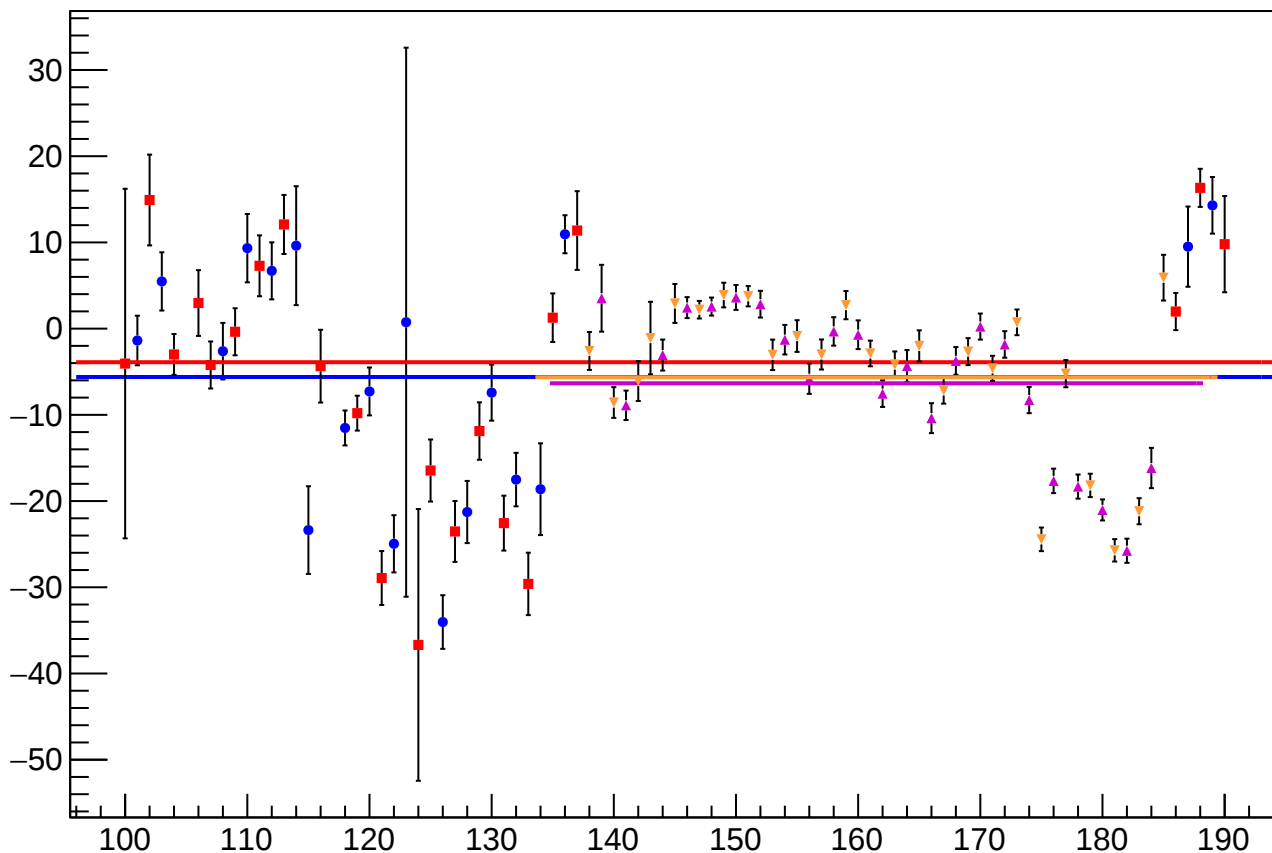
Right: -50.843 ± 0.991 $\chi^2/\text{NDF}: 196.7/4$

In: 20.491 ± 0.394 $\chi^2/\text{NDF}: 3956.7/24$

Out: 14.124 ± 0.376 $\chi^2/\text{NDF}: 9118.2/27$

All: 17.158 ± 0.272 $\chi^2/\text{NDF}: 13211.5/52$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.610 ± 0.758 χ^2/NDF : 328.9/18

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -3.895 ± 0.678 χ^2/NDF : 372.2/21

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

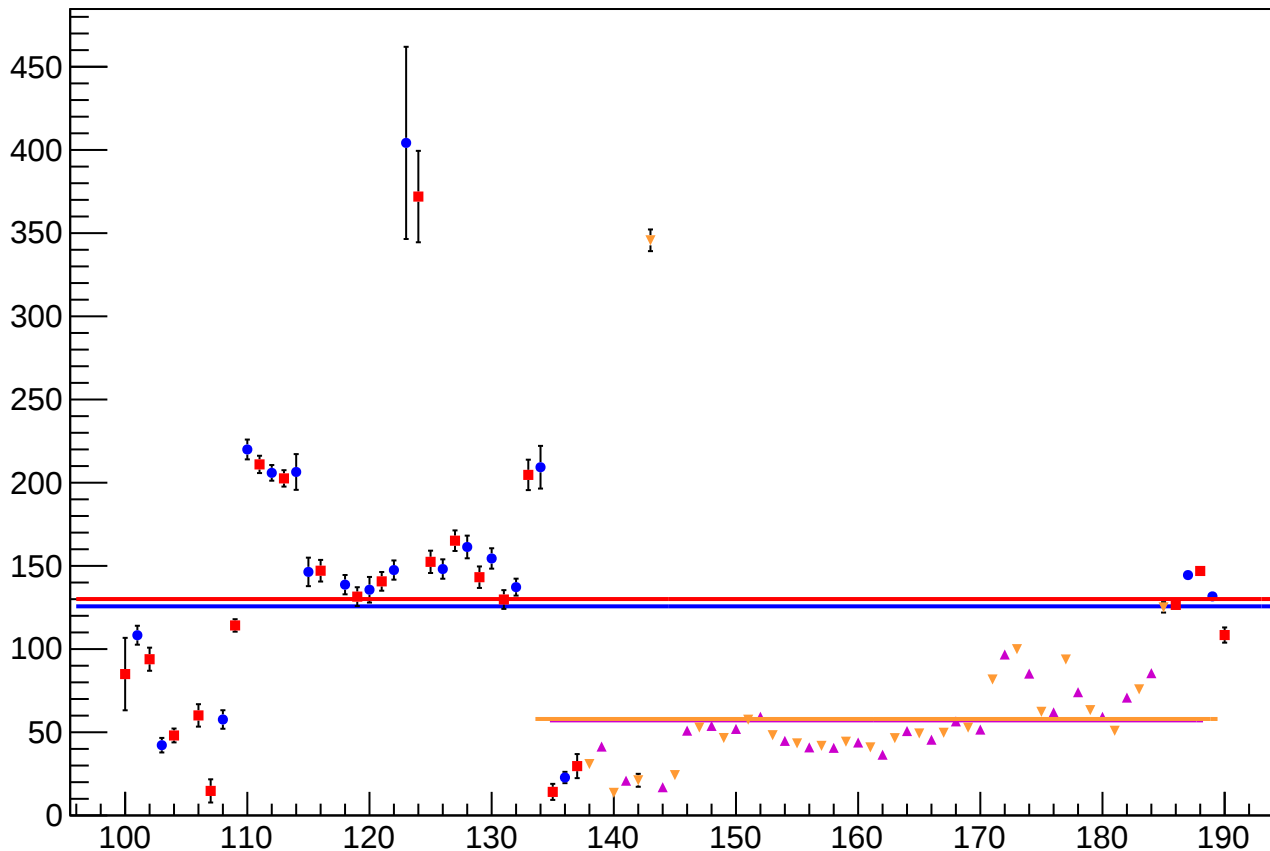
Right: -4.657 ± 0.505 χ^2/NDF : 703.9/40

In: -6.226 ± 0.296 χ^2/NDF : 1112.7/41

Out: -5.331 ± 0.286 χ^2/NDF : 1271.3/46

All: -5.764 ± 0.206 χ^2/NDF : 2388.7/88

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 125.689 $\pm$ 1.095 χ^2 /NDF: 2264.5/18

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 130.078 $\pm$ 0.761 χ^2 /NDF: 2458.3/21

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

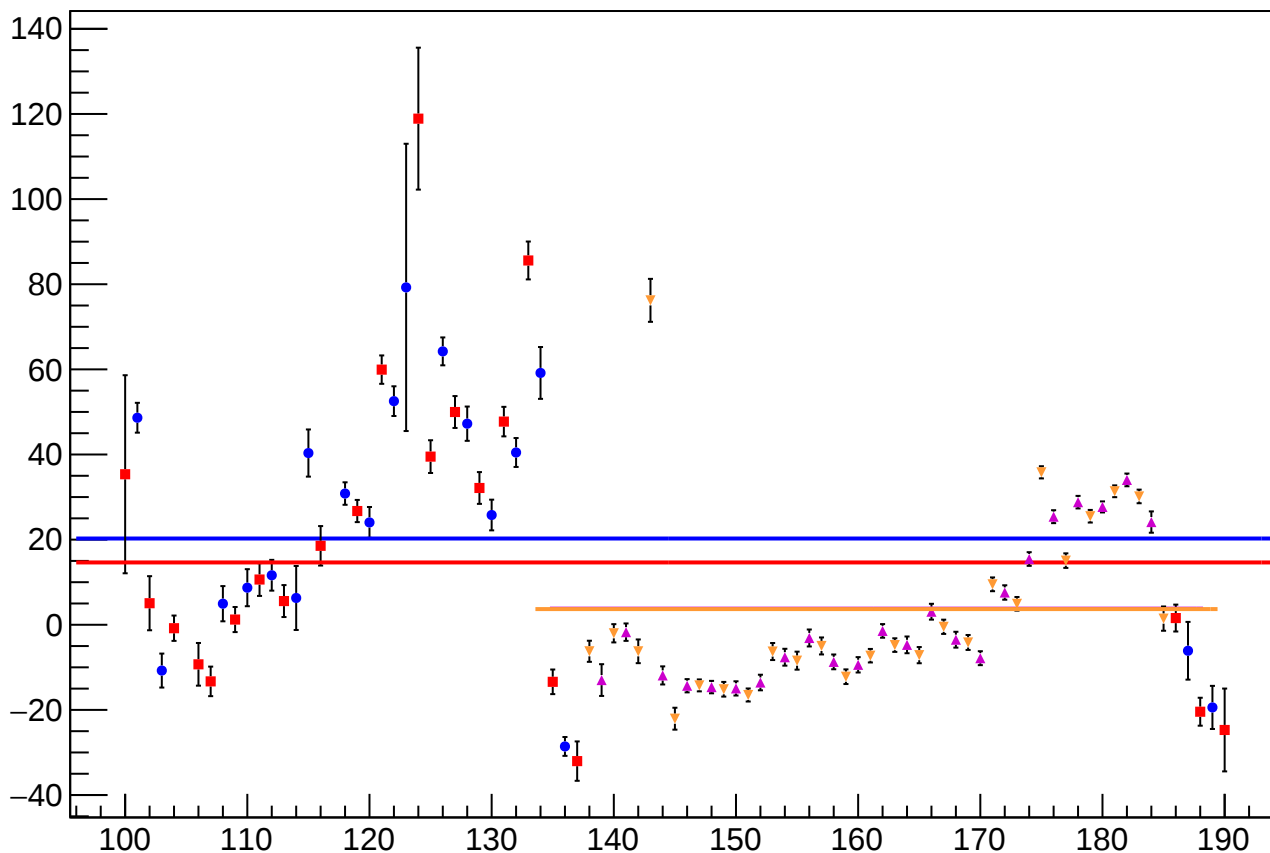
Right: 128.651 $\pm$ 0.625 χ^2 /NDF: 4733.6/40

In: 65.189 $\pm$ 0.375 χ^2 /NDF:7524.6/41

Out: 73.483 $\pm$ 0.353 χ^2 /NDF:14147.0/46

All: 69.595 $\pm$ 0.257 χ^2 /NDF: 21930.9/88

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.263 $\pm$ 0.879 χ^2/NDF : 1141.4/18

Left Out: 3.684 $\pm$ 0.357 χ^2/NDF : 2541.7/24

Right Out: 14.640 $\pm$ 0.812 χ^2/NDF : 1232.5/21

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

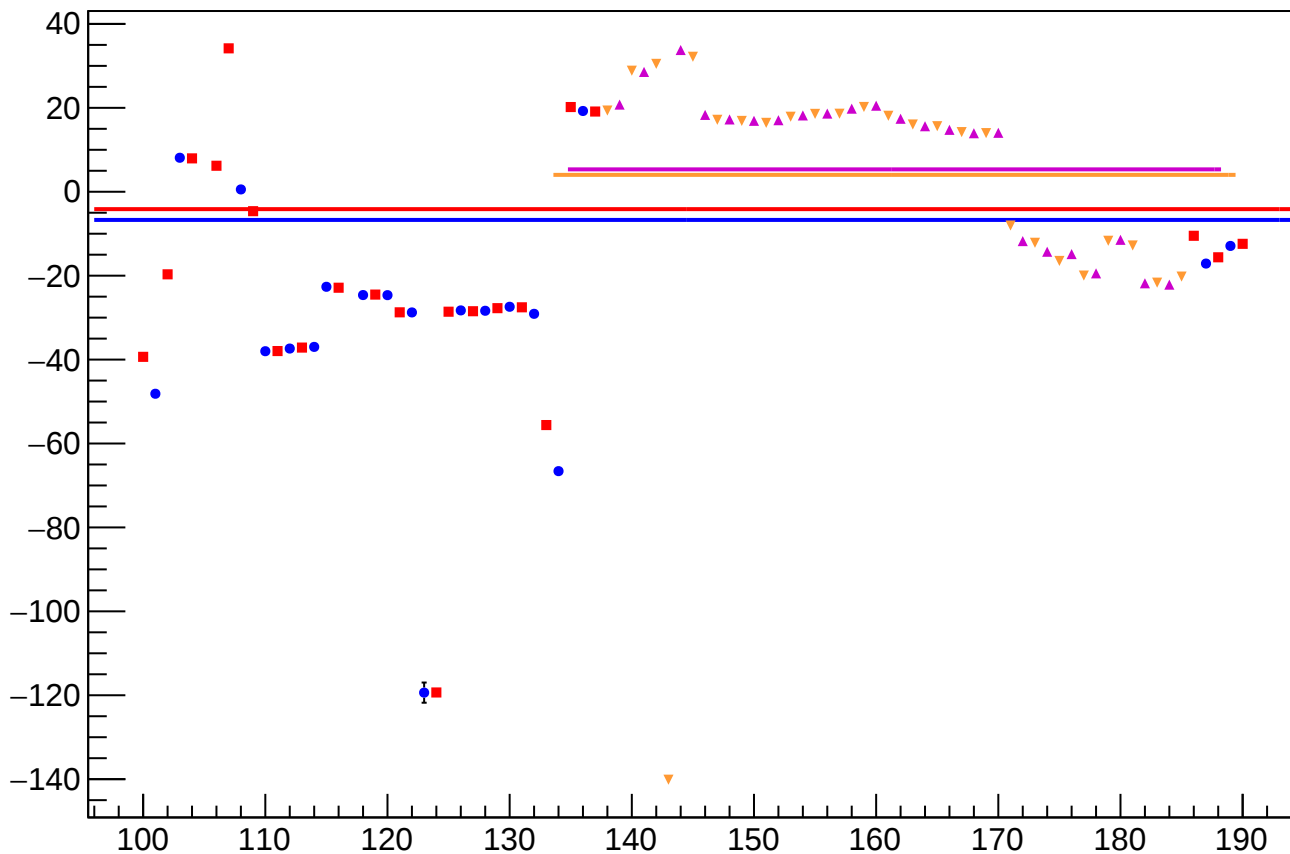
Right: 17.229 $\pm$ 0.596 χ^2/NDF : 2395.9/40

In: 6.173 $\pm$ 0.335 χ^2/NDF : 3640.7/41

Out: 5.457 $\pm$ 0.327 χ^2/NDF : 3926.8/46

All: 5.806 $\pm$ 0.234 χ^2/NDF : 7569.8/88

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.714 ± 0.045 χ^2/NDF : 265654.1/18

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -4.142 ± 0.043 χ^2/NDF : 272353.1/21

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

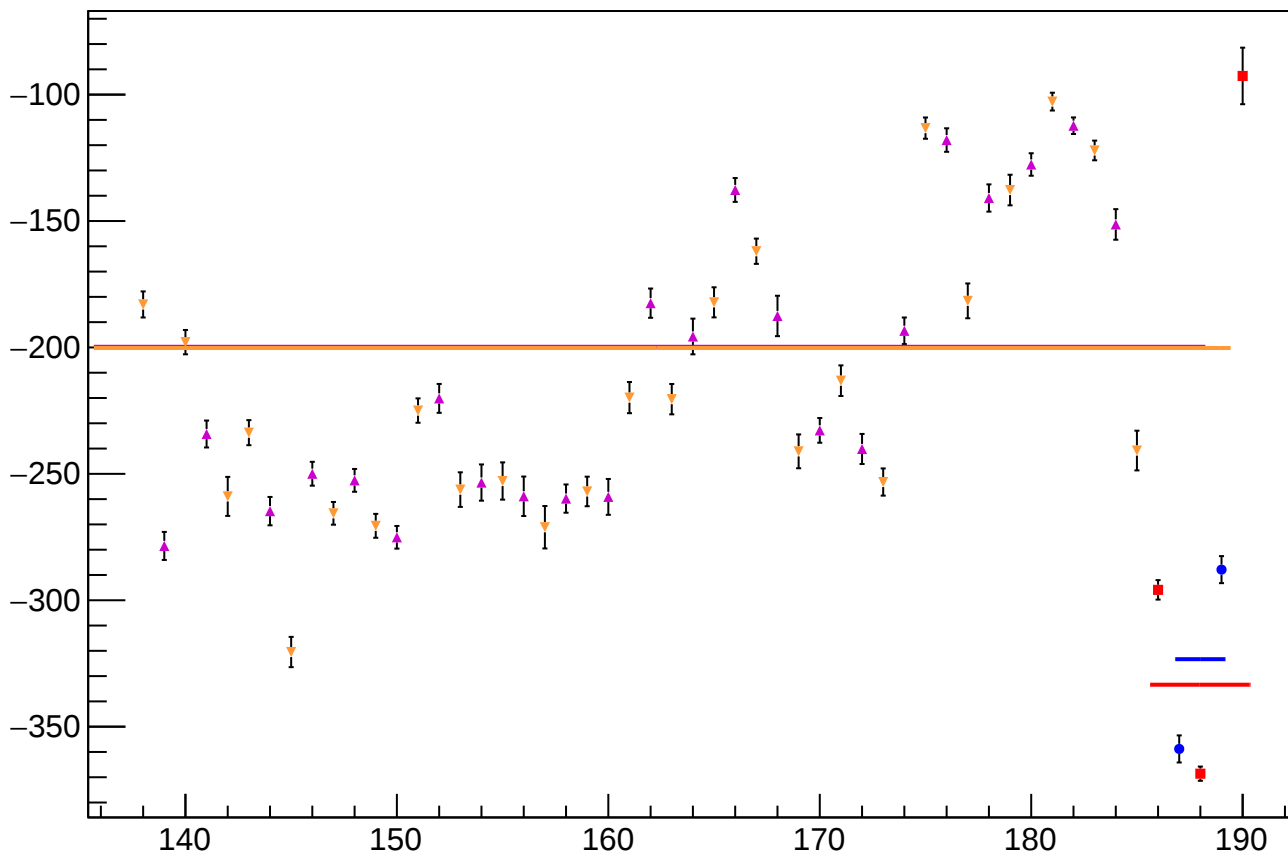
Right: -5.361 ± 0.031 χ^2/NDF : 539716.2/40

In: 3.925 ± 0.015 χ^2/NDF : 1406450.2/41

Out: 2.986 ± 0.015 χ^2/NDF : 1687216.6/46

All: 3.451 ± 0.011 χ^2/NDF : 3095538.0/88

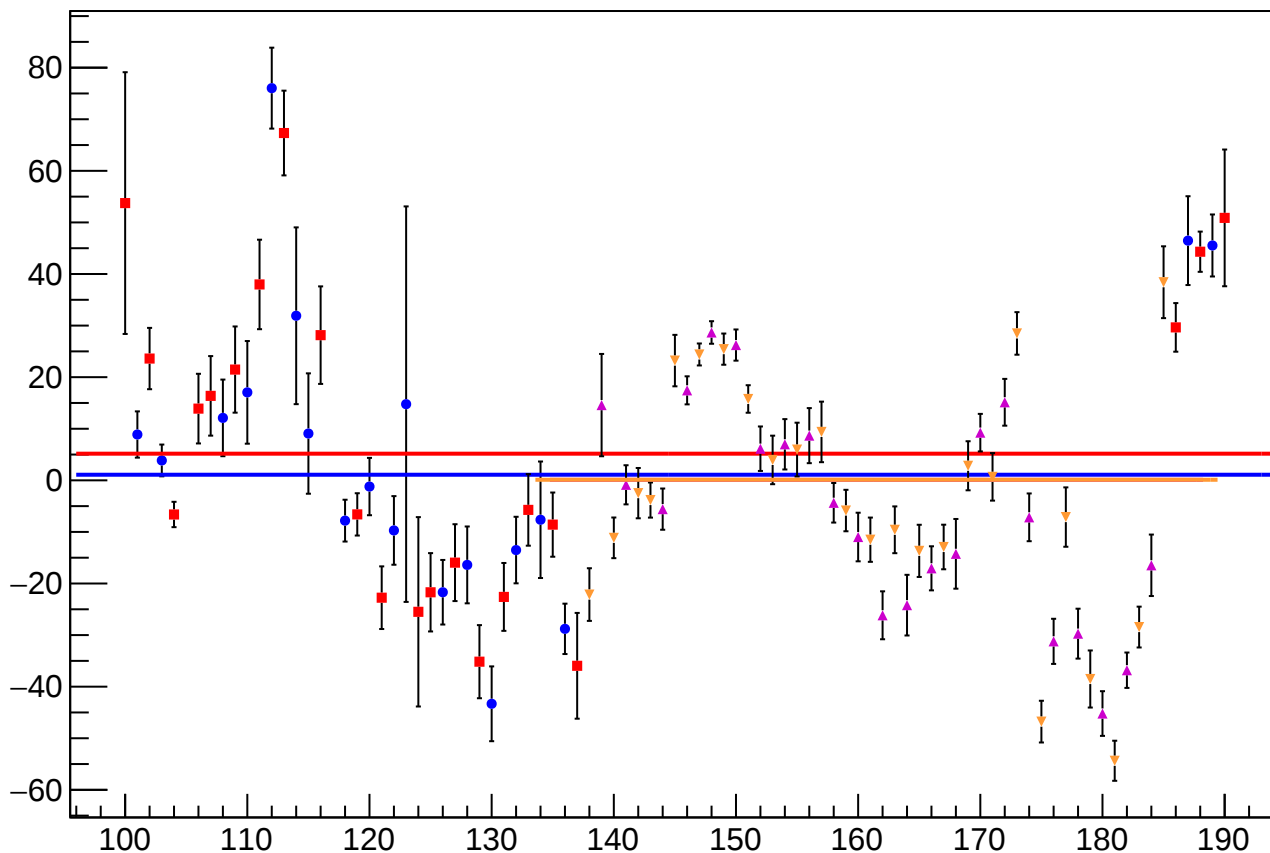
reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -323.309 ± 3.785 $\chi^2/\text{NDF}: 87.8/1$
 Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$
 Right Out: -333.404 ± 2.227 $\chi^2/\text{NDF}: 714.9/2$
 Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$
 Right: -330.809 ± 1.919 $\chi^2/\text{NDF}: 808.0/4$
 In: -209.320 ± 1.054 $\chi^2/\text{NDF}: 4038.8/24$
 Out: -225.512 ± 0.970 $\chi^2/\text{NDF}: 6838.4/27$
 All: -218.086 ± 0.714 $\chi^2/\text{NDF}: 11005.0/52$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.086+/-1.408 χ^2/NDF : 293.2/18

Left Out: 0.109+/-0.807 χ^2/NDF : 831.2/24

Right Out: 5.168+/-1.262 χ^2/NDF : 387.5/21

Left In: 0.097+/-0.838 χ^2/NDF : 715.5/22

Left: 0.103+/-0.581 χ^2/NDF : 1546.7/47

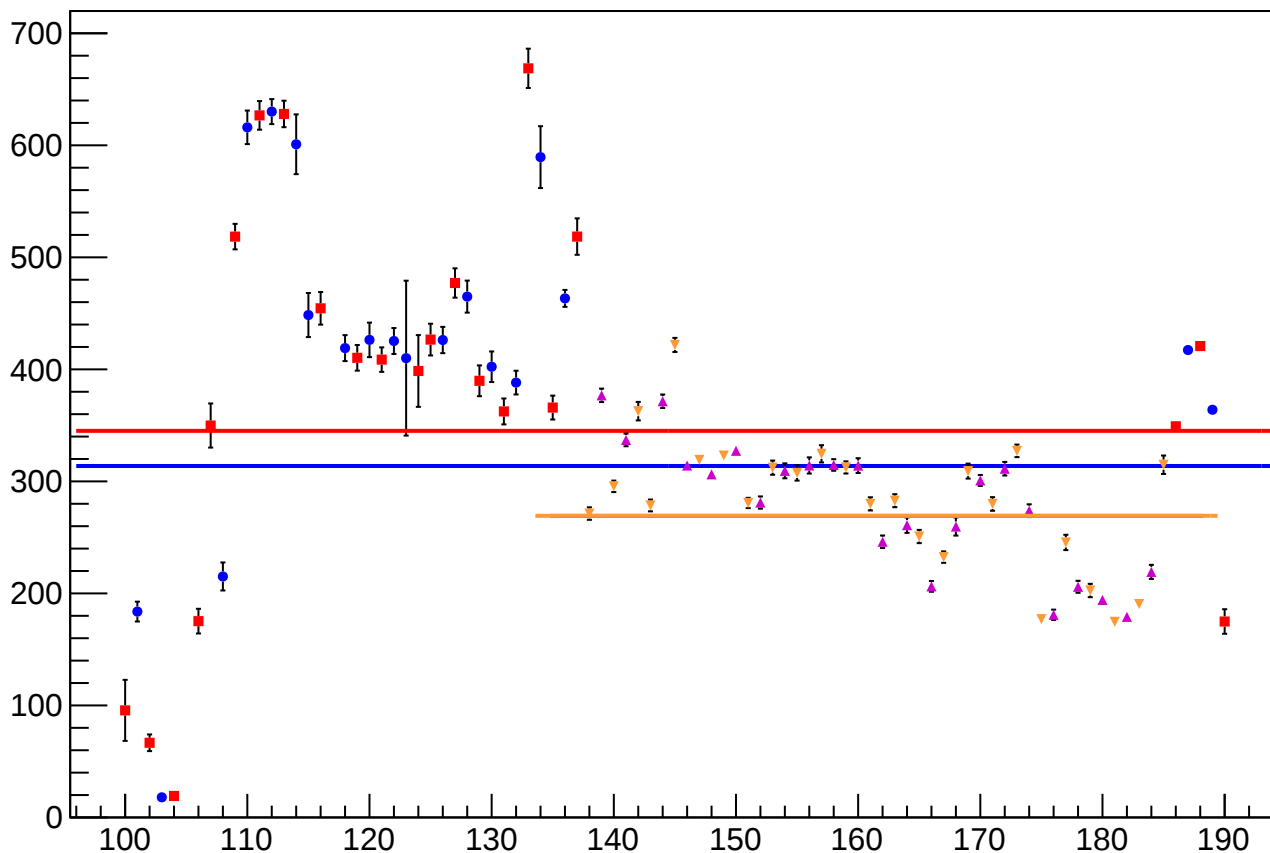
Right: 3.350+/-0.940 χ^2/NDF : 685.3/40

In: 0.356+/-0.720 χ^2/NDF : 1009.0/41

Out: 1.578+/-0.680 χ^2/NDF : 1230.1/46

All: 1.002+/-0.494 χ^2/NDF : 2240.7/88

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 313.745 $\pm$ 1.949 χ^2 /NDF: 8679.8/18

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 345.103 $\pm$ 1.450 χ^2 /NDF: 10727.3/21

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

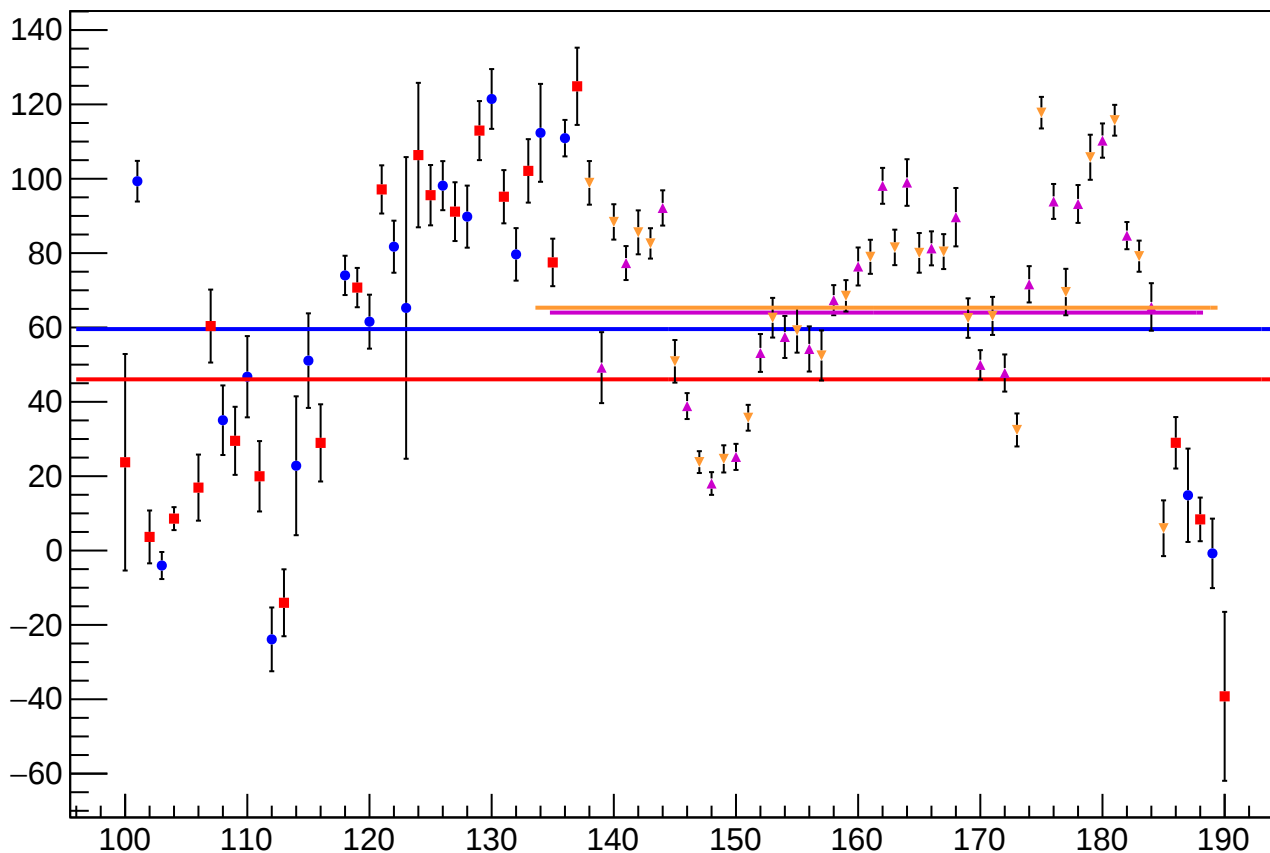
Right: 333.927 $\pm$ 1.163 χ^2 /NDF: 19573.8/40

In: 279.816 $\pm$ 0.952 χ^2 /NDF:12248.0/41

Out: 296.251 $\pm$ 0.865 χ^2 /NDF:15635.4/46

All: 288.817 $\pm$ 0.640 χ^2 /NDF: 28046.7/88

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 59.567 $\pm$ 1.655 χ^2 /NDF: 778.0/18

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 46.048 $\pm$ 1.540 χ^2 /NDF: 722.2/21

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

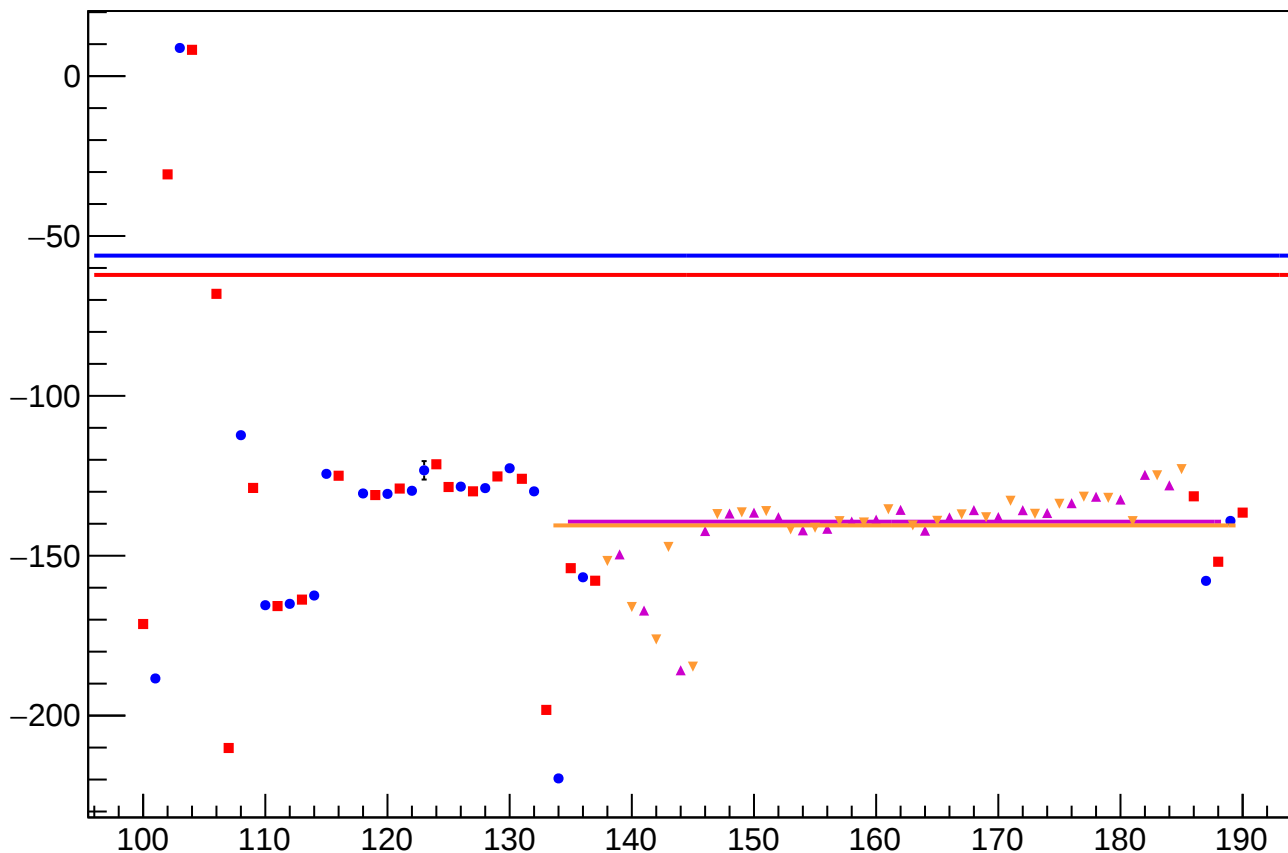
Right: 52.321 $\pm$ 1.127 χ^2 /NDF: 1536.0/40

In: 62.878 $\pm$ 0.832 χ^2 /NDF:1582.8/41

Out: 60.133 $\pm$ 0.799 χ^2 /NDF:1843.8/46

All: 61.450 $\pm$ 0.576 χ^2 /NDF: 3432.3/88

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -56.140 ± 0.069 $\chi^2/\text{NDF}: 1279066.0/18$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -62.177 ± 0.069 $\chi^2/\text{NDF}: 1086290.1/21$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

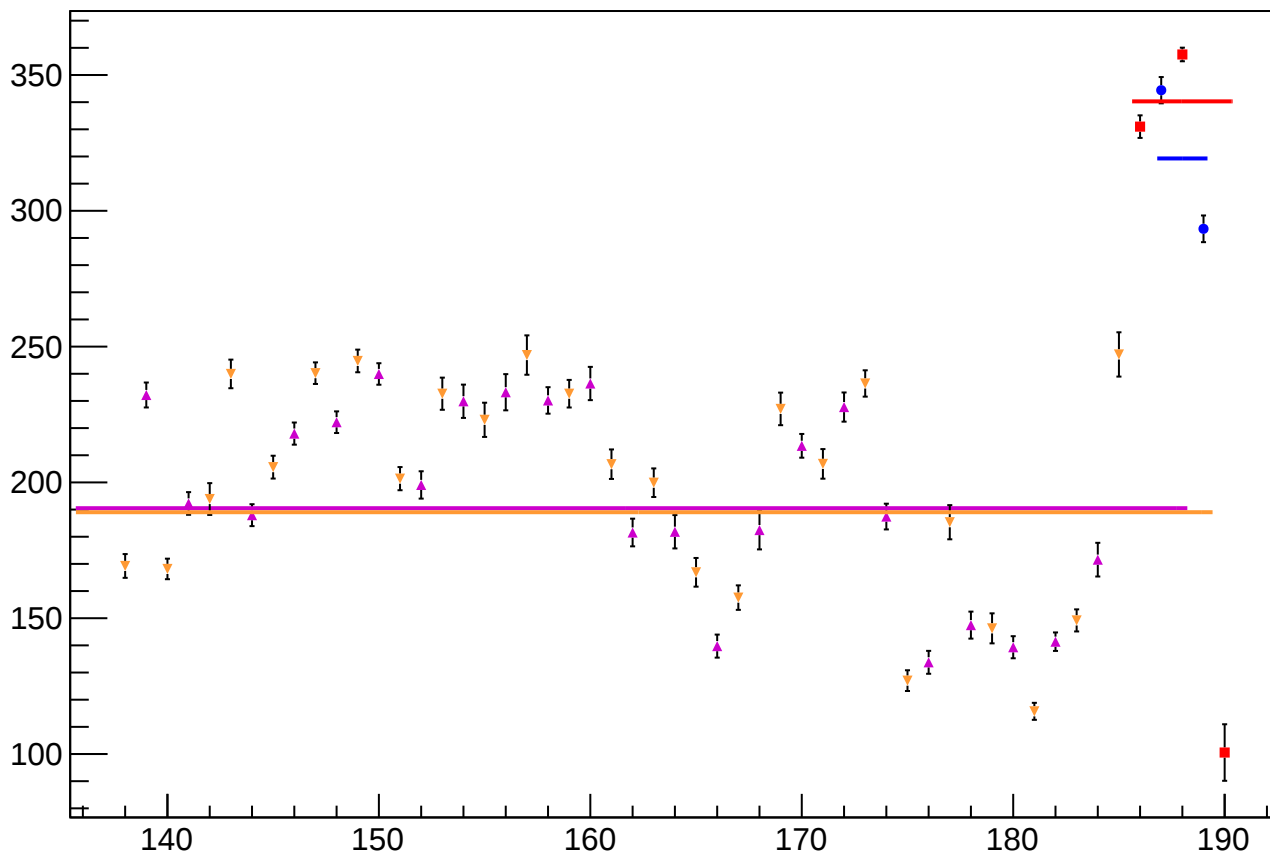
Right: -59.164 ± 0.049 $\chi^2/\text{NDF}: 2369157.5/40$

In: -114.668 ± 0.038 $\chi^2/\text{NDF}: 2355801.6/41$

Out: -117.546 ± 0.037 $\chi^2/\text{NDF}: 2070439.1/46$

All: -116.118 ± 0.027 $\chi^2/\text{NDF}: 4429169.6/88$

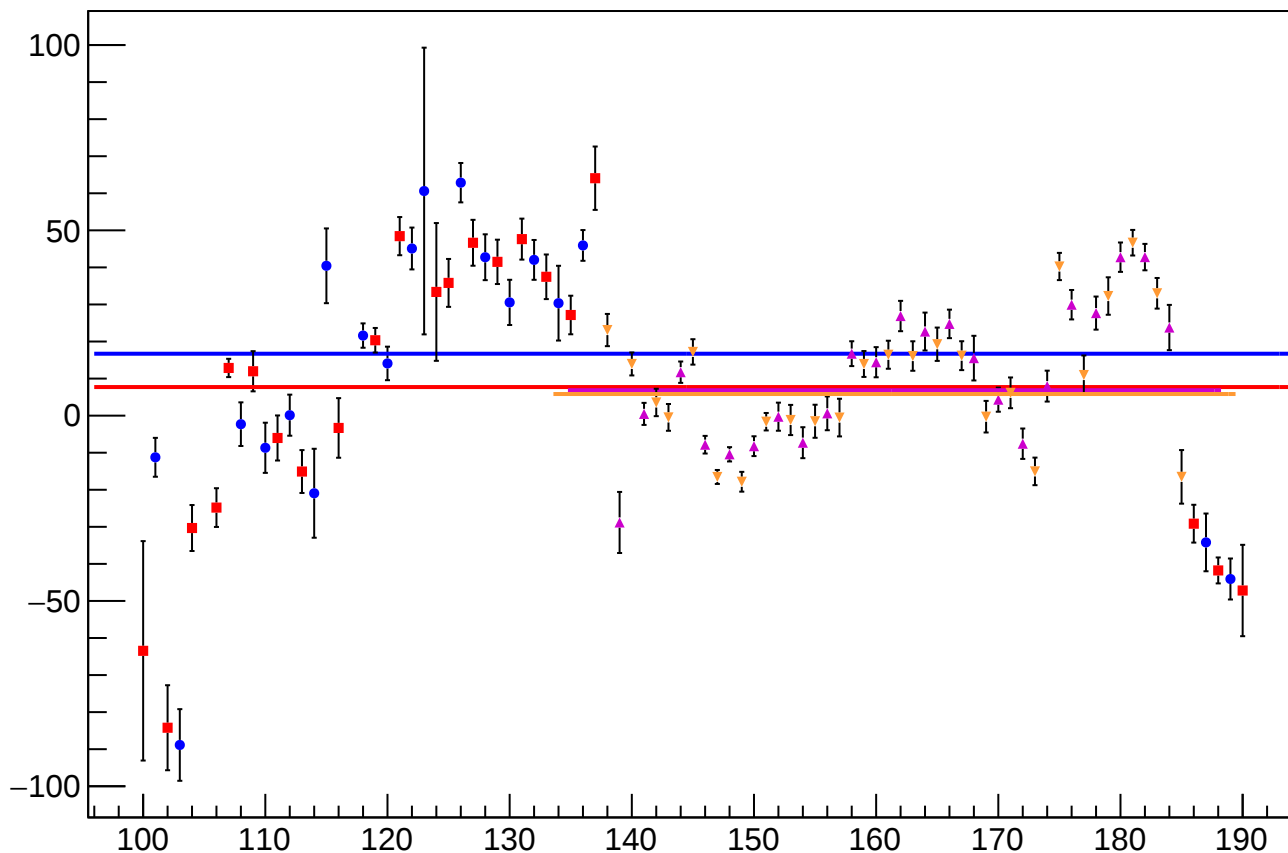
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 319.276 $\pm$ 3.448 χ^2 /NDF: 54.8/1
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 340.294 $\pm$ 2.101 χ^2 /NDF: 583.0/2
 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: 334.602 $\pm$ 1.794 χ^2 /NDF: 664.9/4
 In: 200.040 $\pm$ 0.938 χ^2 /NDF:2758.7/24
 Out: 214.964 $\pm$ 0.870 χ^2 /NDF:6857.3/27
 All: 208.064 $\pm$ 0.638 χ^2 /NDF: 9752.0/52

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.709+/-1.335 χ^2/NDF : 561.1/18

Left Out: 5.834+/-0.712 χ^2/NDF : 652.2/24

Right Out: 7.715+/-1.126 χ^2/NDF : 748.9/21

Left In: 6.862+/-0.736 χ^2/NDF : 522.7/22

Left: 6.331+/-0.512 χ^2/NDF : 1176.0/47

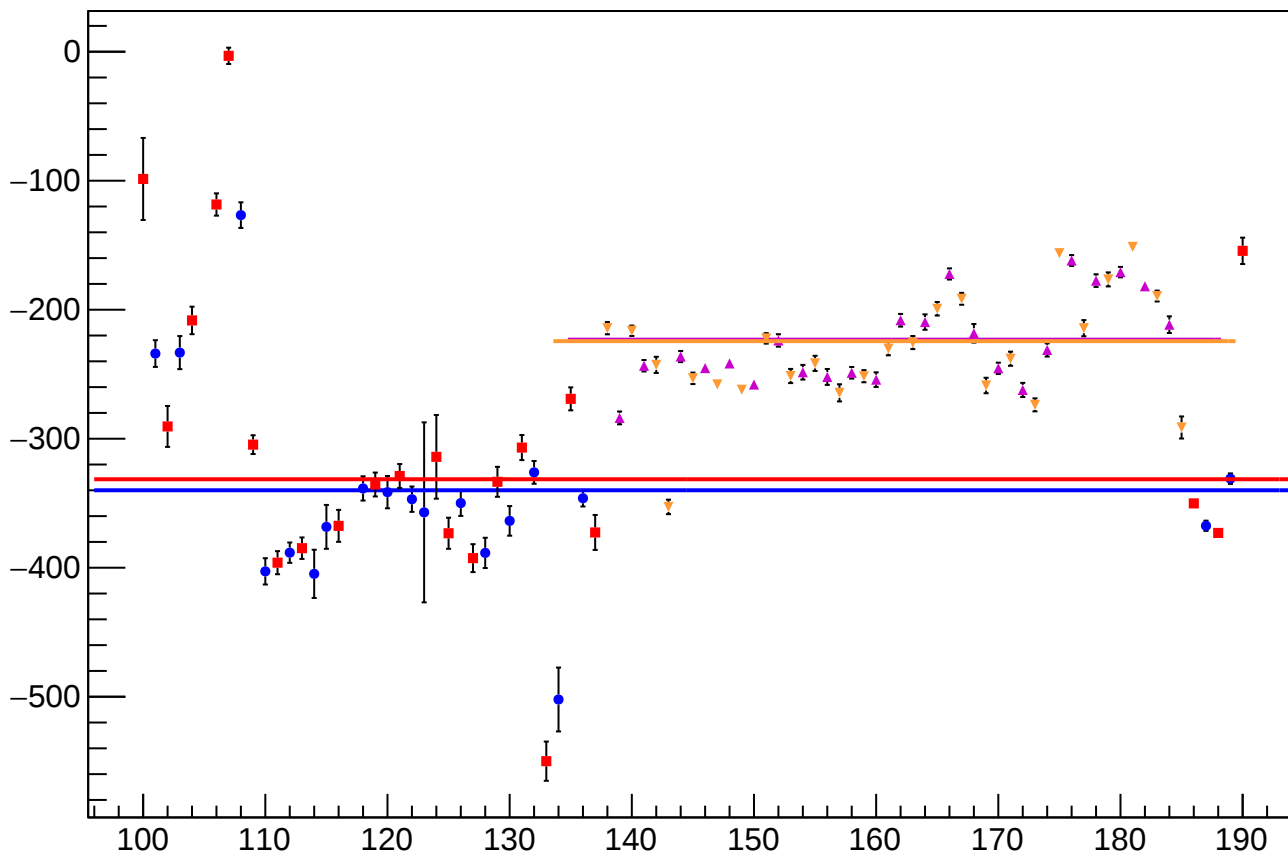
Right: 11.451+/-0.861 χ^2/NDF : 1336.5/40

In: 9.157+/-0.645 χ^2/NDF : 1125.6/41

Out: 6.372+/-0.602 χ^2/NDF : 1403.1/46

All: 7.669+/-0.440 χ^2/NDF : 2538.7/88

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -339.957 ± 1.913 χ^2/NDF : 848.4/18

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -331.402 ± 1.371 χ^2/NDF : 4693.5/21

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

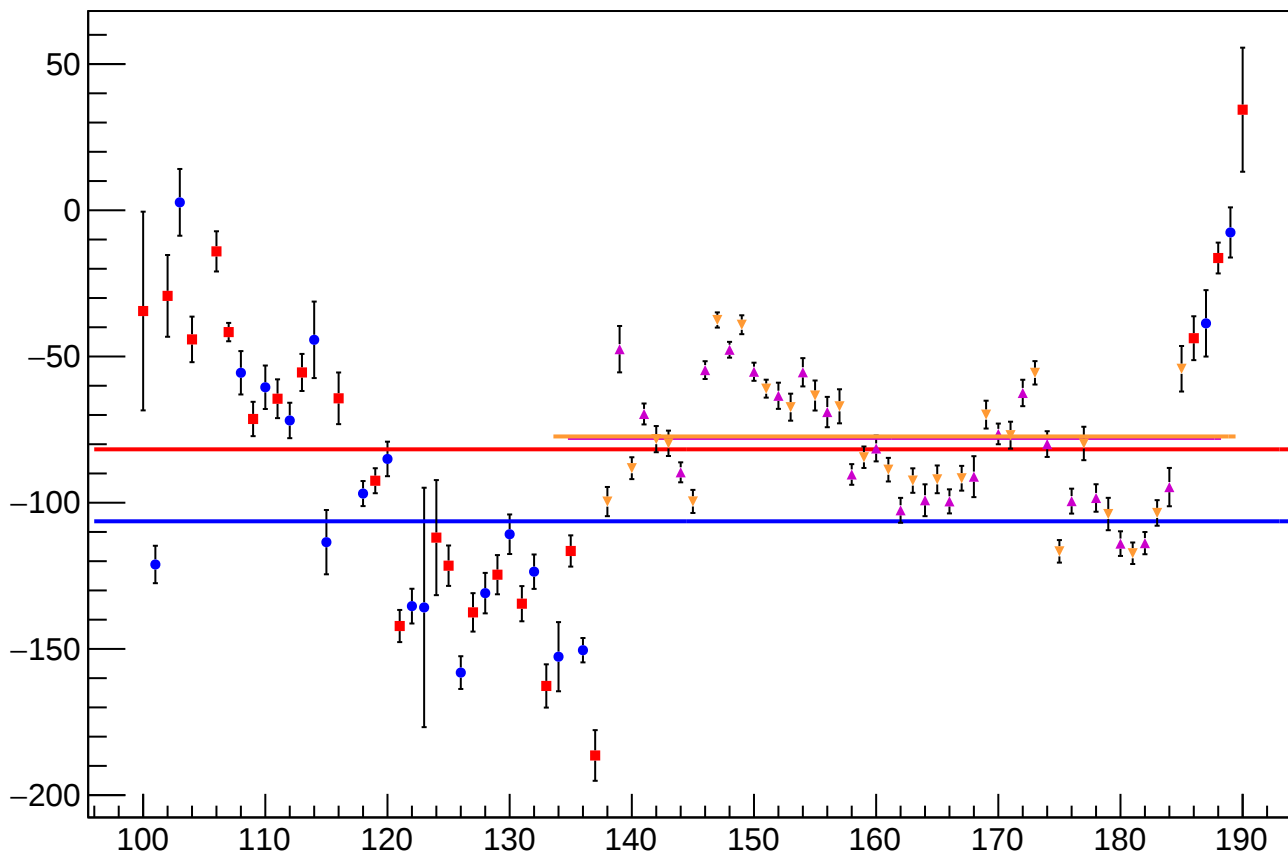
Right: -334.303 ± 1.114 χ^2/NDF : 5555.1/40

In: -247.060 ± 0.865 χ^2/NDF : 5080.1/41

Out: -259.399 ± 0.784 χ^2/NDF : 10899.7/46

All: -253.830 ± 0.581 χ^2/NDF : 16091.5/88

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -106.356 ± 1.559 χ^2/NDF : 681.8/18

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -81.746 ± 1.359 χ^2/NDF : 1200.6/21

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

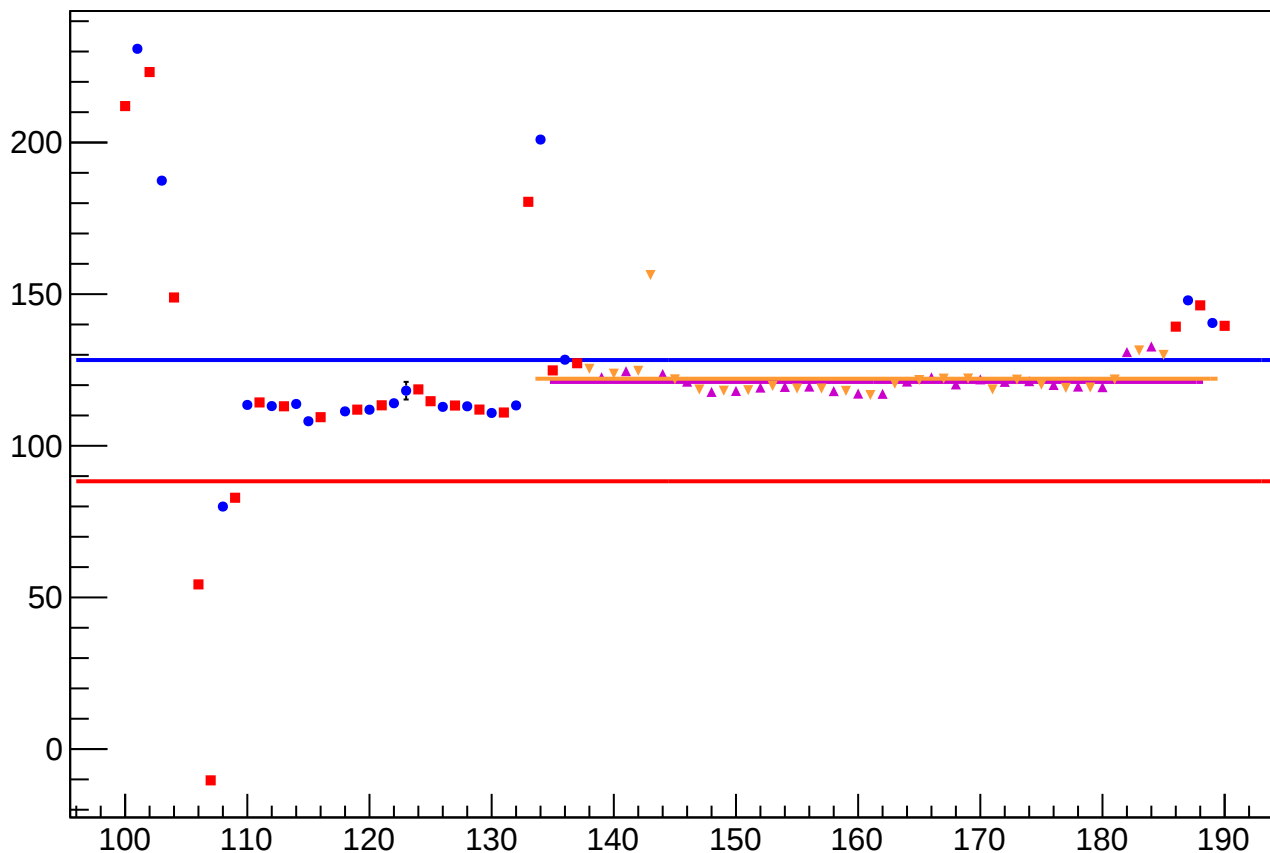
Right: -92.372 ± 1.024 χ^2/NDF : 2024.0/40

In: -84.359 ± 0.745 χ^2/NDF : 1562.7/41

Out: -78.533 ± 0.706 χ^2/NDF : 2054.5/46

All: -81.289 ± 0.513 χ^2/NDF : 3649.4/88

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 128.275+/-0.087 χ^2/NDF : 189590.4/18

Left Out: 122.119+/-0.039 χ^2/NDF : 30480.7/24

Right Out: 88.302+/-0.072 χ^2/NDF : 827251.1/21

Left In: 121.055+/-0.040 χ^2/NDF : 7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

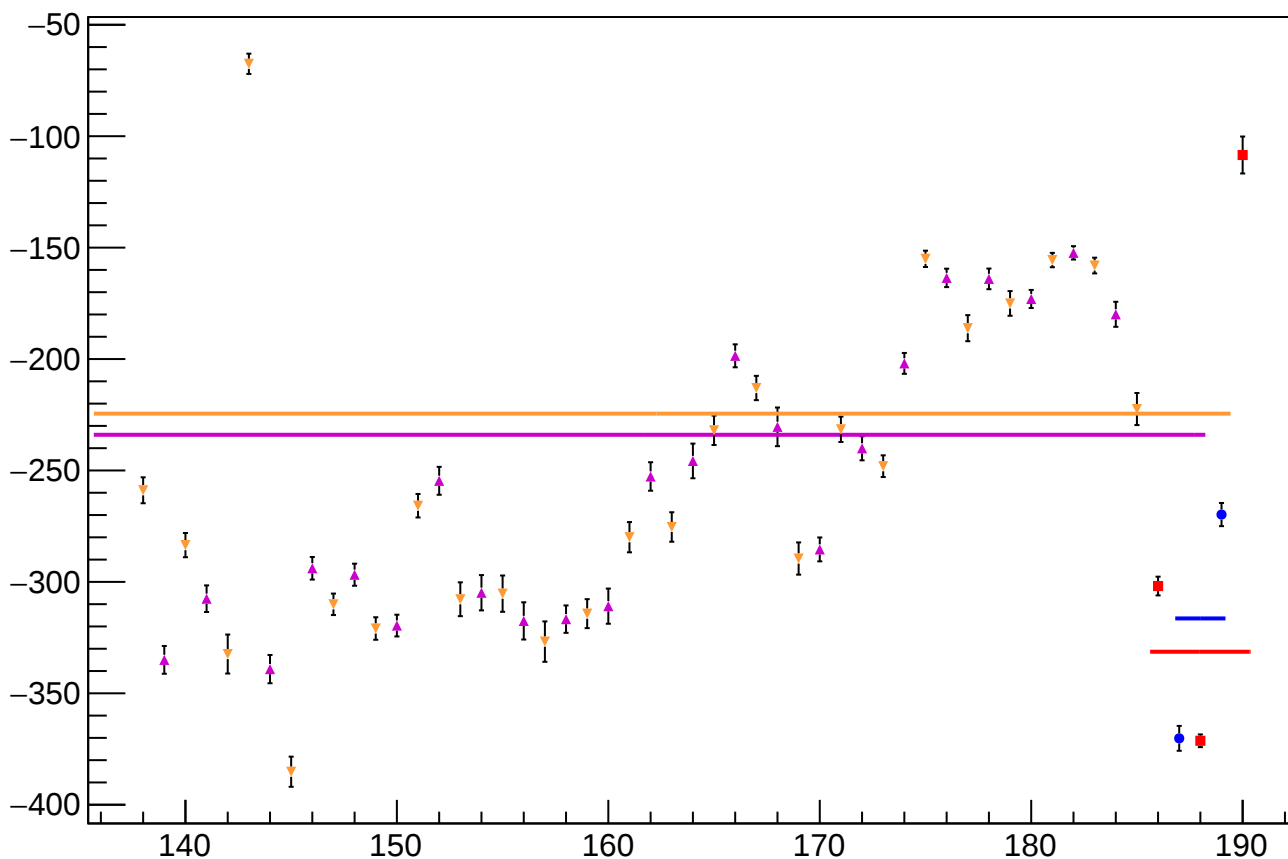
Right: 104.535+/-0.055 χ^2/NDF : 1142646.7/40

In: 122.305+/-0.036 χ^2/NDF : 203236.1/41

Out: 114.292+/-0.035 χ^2/NDF : 1028129.1/46

All: 118.119+/-0.025 χ^2/NDF : 1257052.1/88

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -316.399+/-3.804 χ^2/NDF : 173.3/1

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -331.342+/-2.270 χ^2/NDF : 968.5/2

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

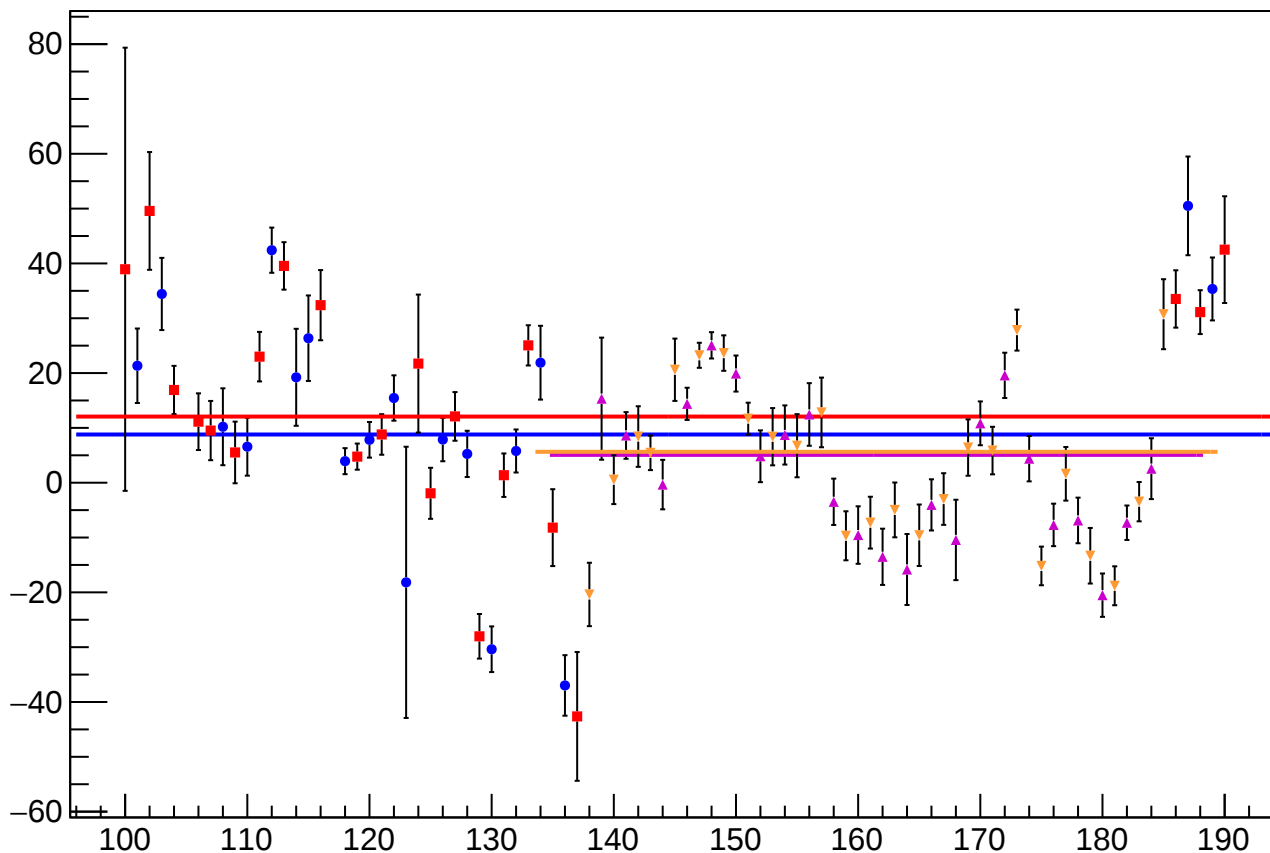
Right: -327.418+/-1.949 χ^2/NDF : 1153.1/4

In: -240.438+/-1.064 χ^2/NDF : 4144.2/24

Out: -244.193+/-0.975 χ^2/NDF : 7645.9/27

All: -242.480+/-0.719 χ^2/NDF : 11796.9/52

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.794 $\pm$ 1.077 χ^2 /NDF: 305.1/18

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 12.066 $\pm$ 1.011 χ^2 /NDF: 287.6/21

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

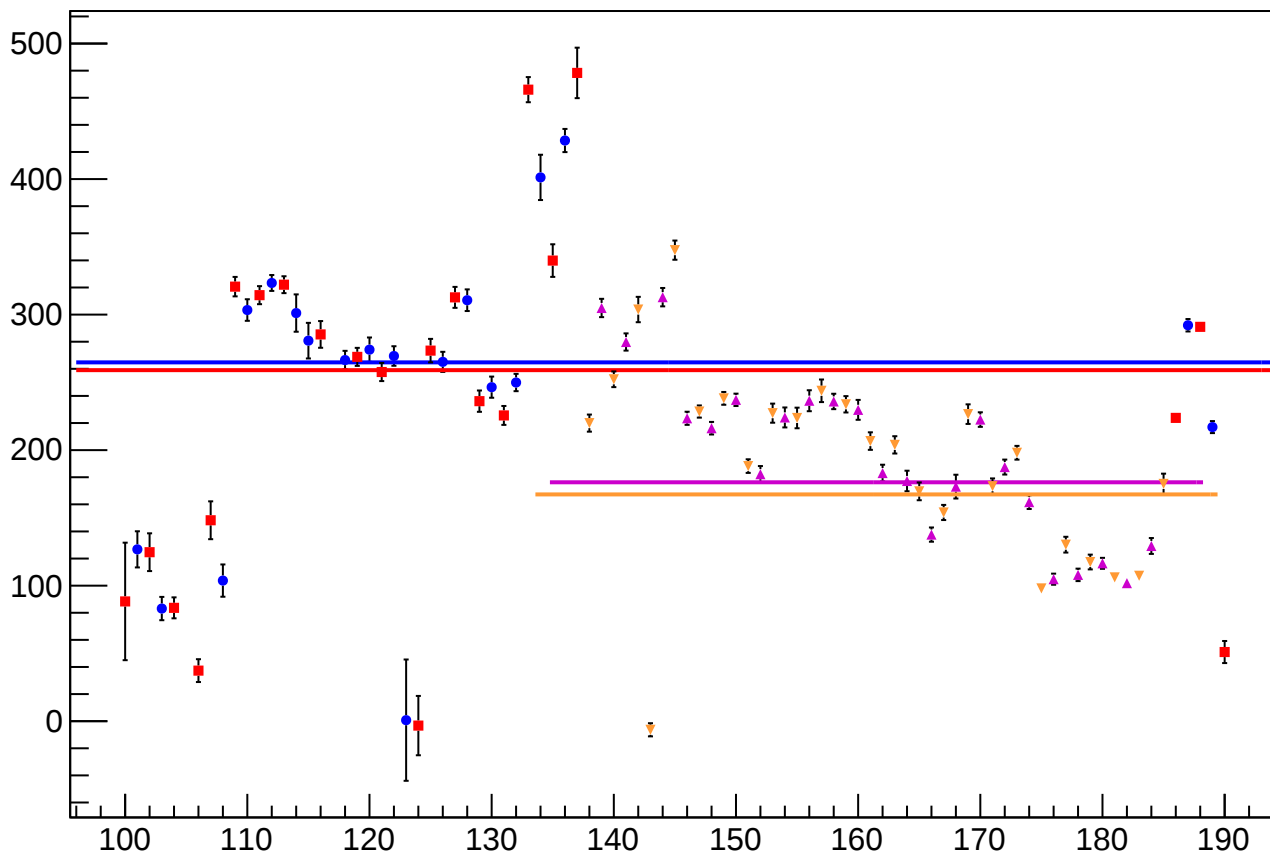
Right: 10.534 $\pm$ 0.737 χ^2 /NDF: 597.6/40

In: 6.542 $\pm$ 0.676 χ^2 /NDF:552.0/41

Out: 8.218 $\pm$ 0.641 χ^2 /NDF:625.4/46

All: 7.426 $\pm$ 0.465 χ^2 /NDF: 1180.6/88

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 264.754 $\pm$ 1.750 χ^2 /NDF: 1533.3/18

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF: 4454.5/24

Right Out: 259.014 $\pm$ 1.352 χ^2 /NDF: 3495.0/21

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

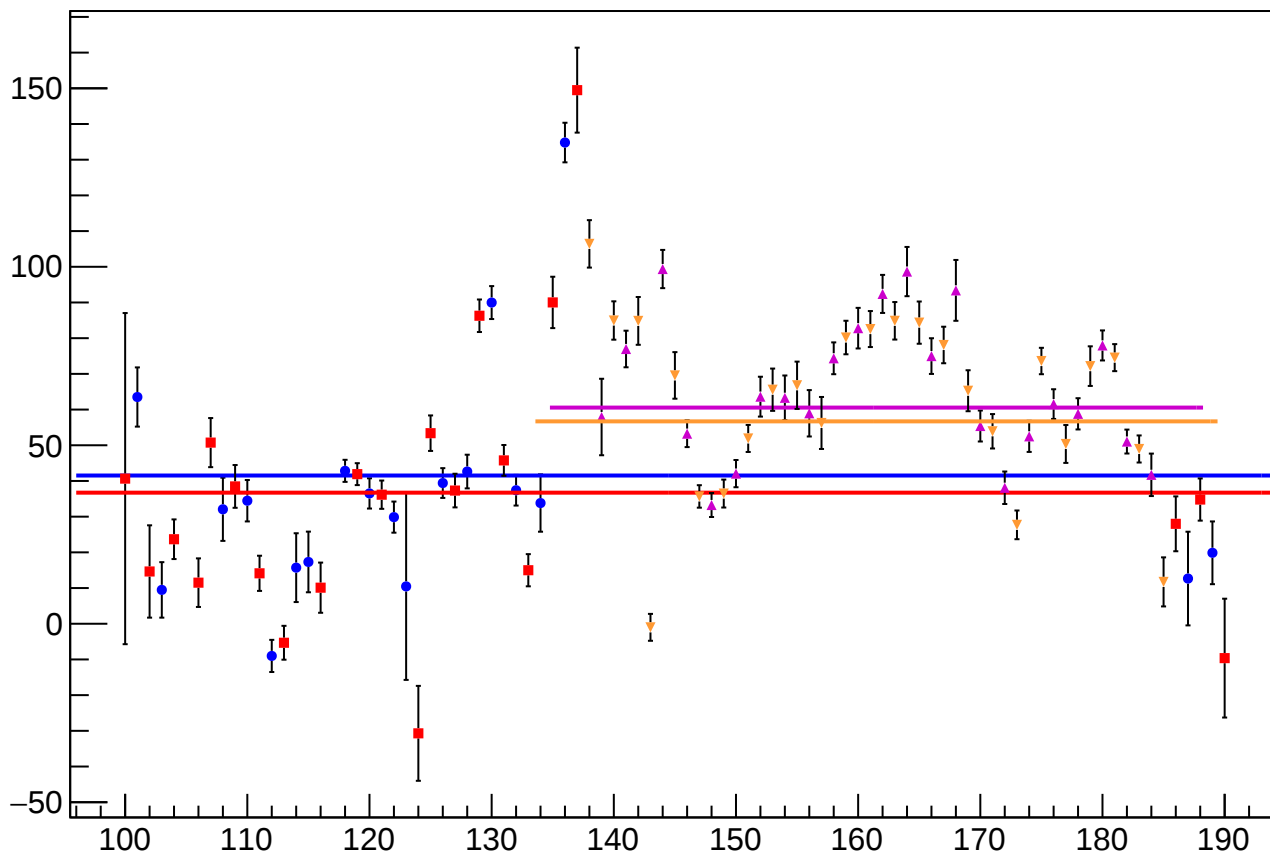
Right: 261.158 $\pm$ 1.070 χ^2 /NDF: 5035.1/40

In: 201.516 $\pm$ 0.935 χ^2 /NDF: 6529.8/41

Out: 203.155 $\pm$ 0.845 χ^2 /NDF: 10752.8/46

All: 202.418 $\pm$ 0.627 χ^2 /NDF: 17284.2/88

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.525 $\pm$ 1.258 χ^2 /NDF: 584.3/18

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF:690.4/24

Right Out: 36.722 $\pm$ 1.193 χ^2 /NDF: 479.9/21

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

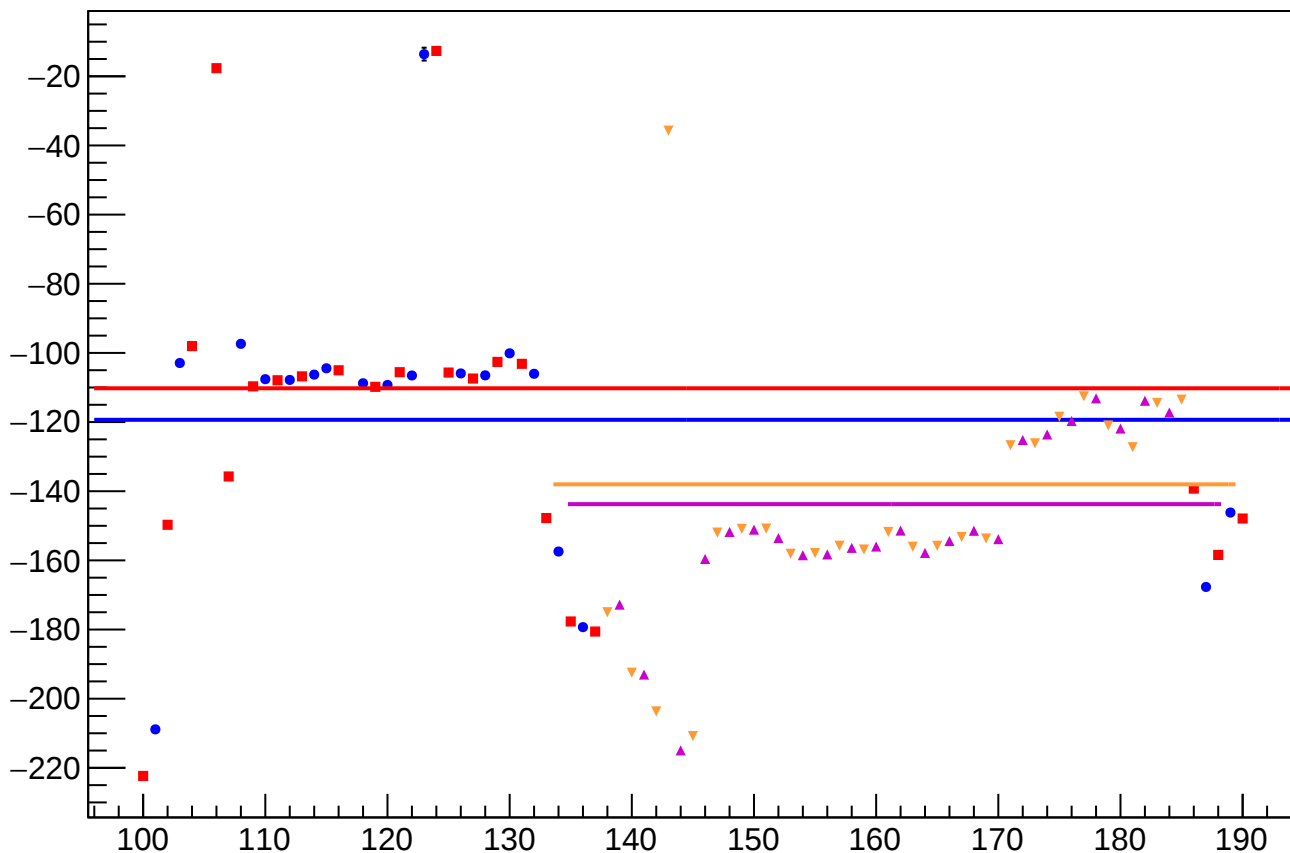
Right: 38.997 $\pm$ 0.865 χ^2 /NDF: 1071.9/40

In: 53.272 $\pm$ 0.778 χ^2 /NDF:1061.3/41

Out: 48.926 $\pm$ 0.744 χ^2 /NDF:1341.6/46

All: 51.002 $\pm$ 0.538 χ^2 /NDF: 2419.2/88

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -119.347 ± 0.077 $\chi^2/\text{NDF}: 151534.3/18$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -110.228 ± 0.069 $\chi^2/\text{NDF}: 363664.3/21$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

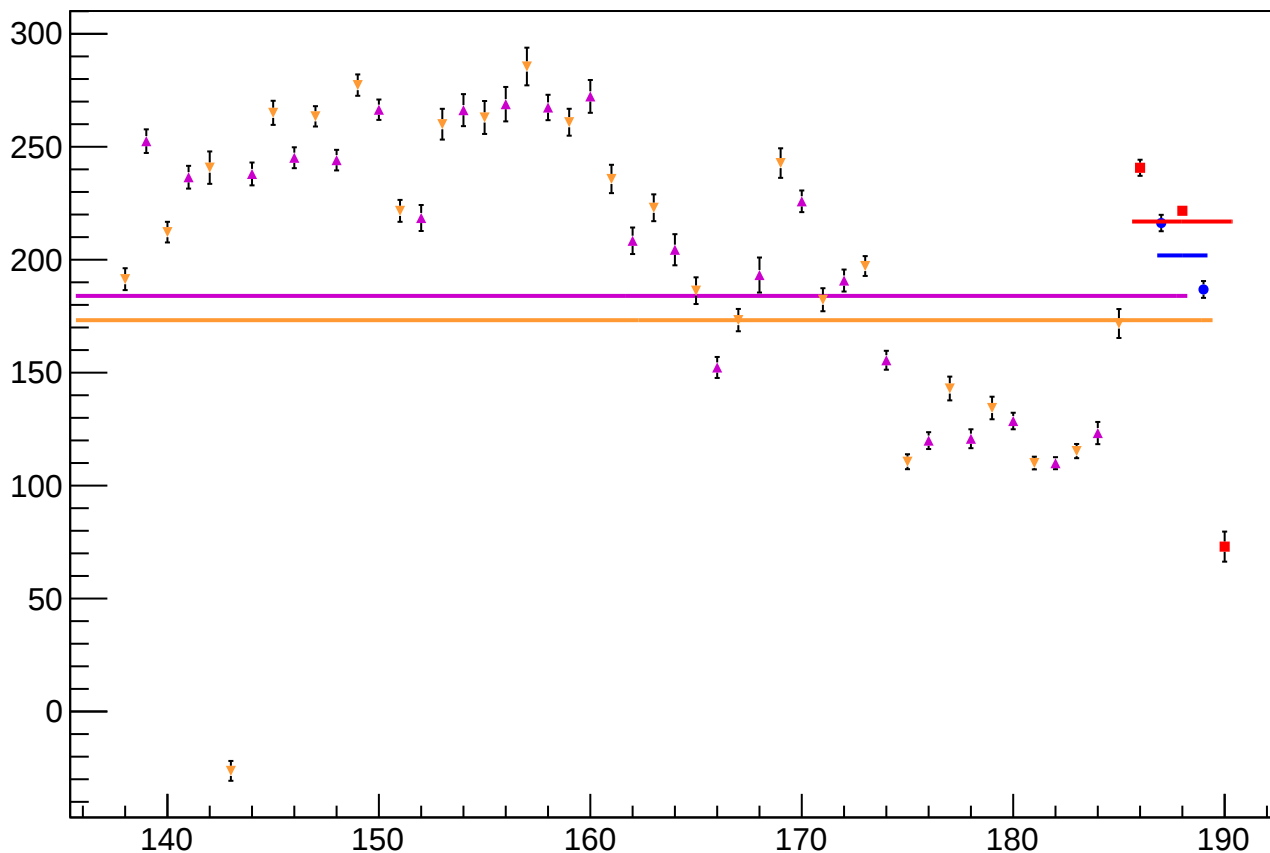
Right: -114.338 ± 0.051 $\chi^2/\text{NDF}: 522978.7/40$

In: -137.253 ± 0.039 $\chi^2/\text{NDF}: 484338.6/41$

Out: -129.754 ± 0.038 $\chi^2/\text{NDF}: 1042022.6/46$

All: -133.342 ± 0.027 $\chi^2/\text{NDF}: 1545154.8/88$

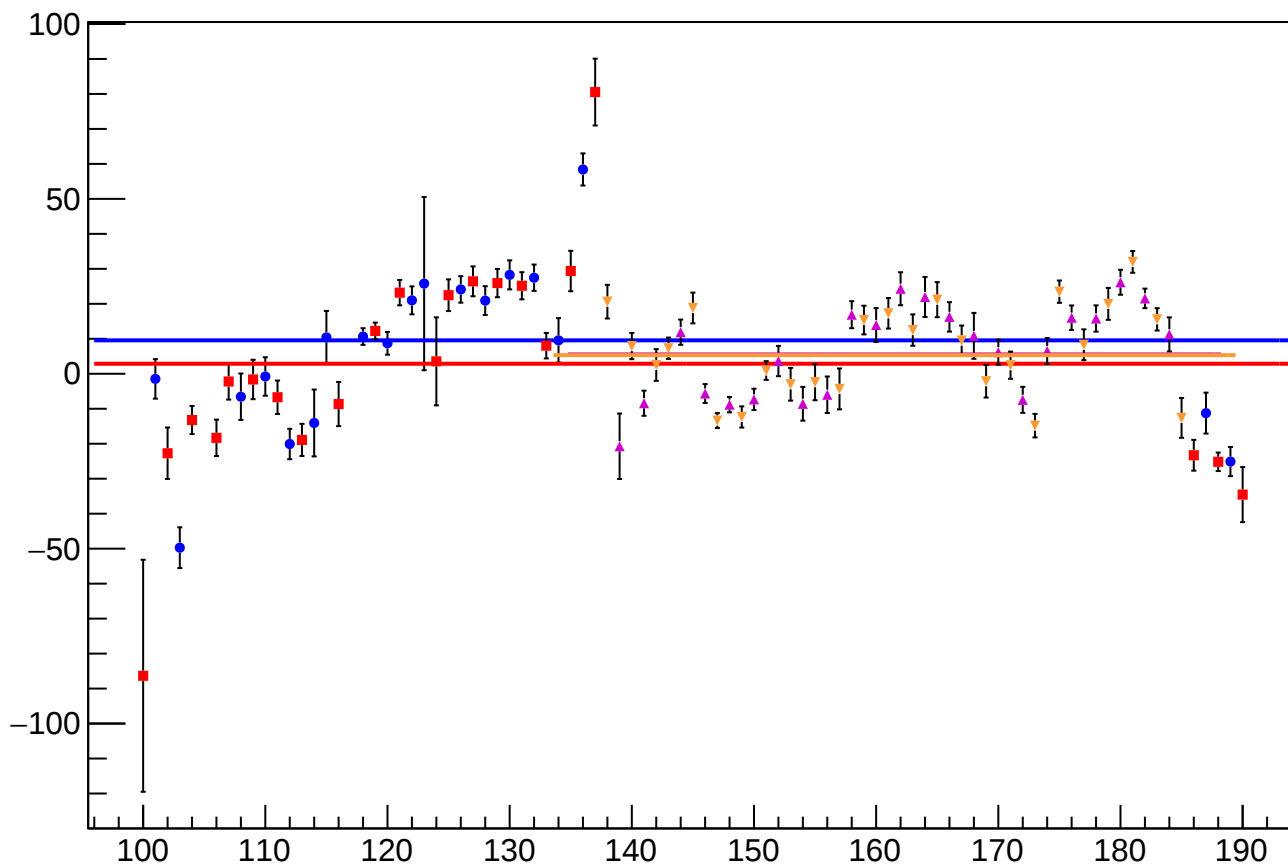
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 201.898 $\pm$ 2.599 χ^2 /NDF: 32.0/1
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24
 Right Out: 216.904 $\pm$ 1.602 χ^2 /NDF: 518.9/2
 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: 212.770 $\pm$ 1.364 χ^2 /NDF: 575.0/4
 In: 186.258 $\pm$ 0.926 χ^2 /NDF: 3687.2/24
 Out: 184.863 $\pm$ 0.827 χ^2 /NDF: 6909.8/27
 All: 185.482 $\pm$ 0.617 χ^2 /NDF: 10598.2/52

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.555 ± 1.026 χ^2/NDF : 438.5/18

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: 2.869 ± 0.945 χ^2/NDF : 504.6/21

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

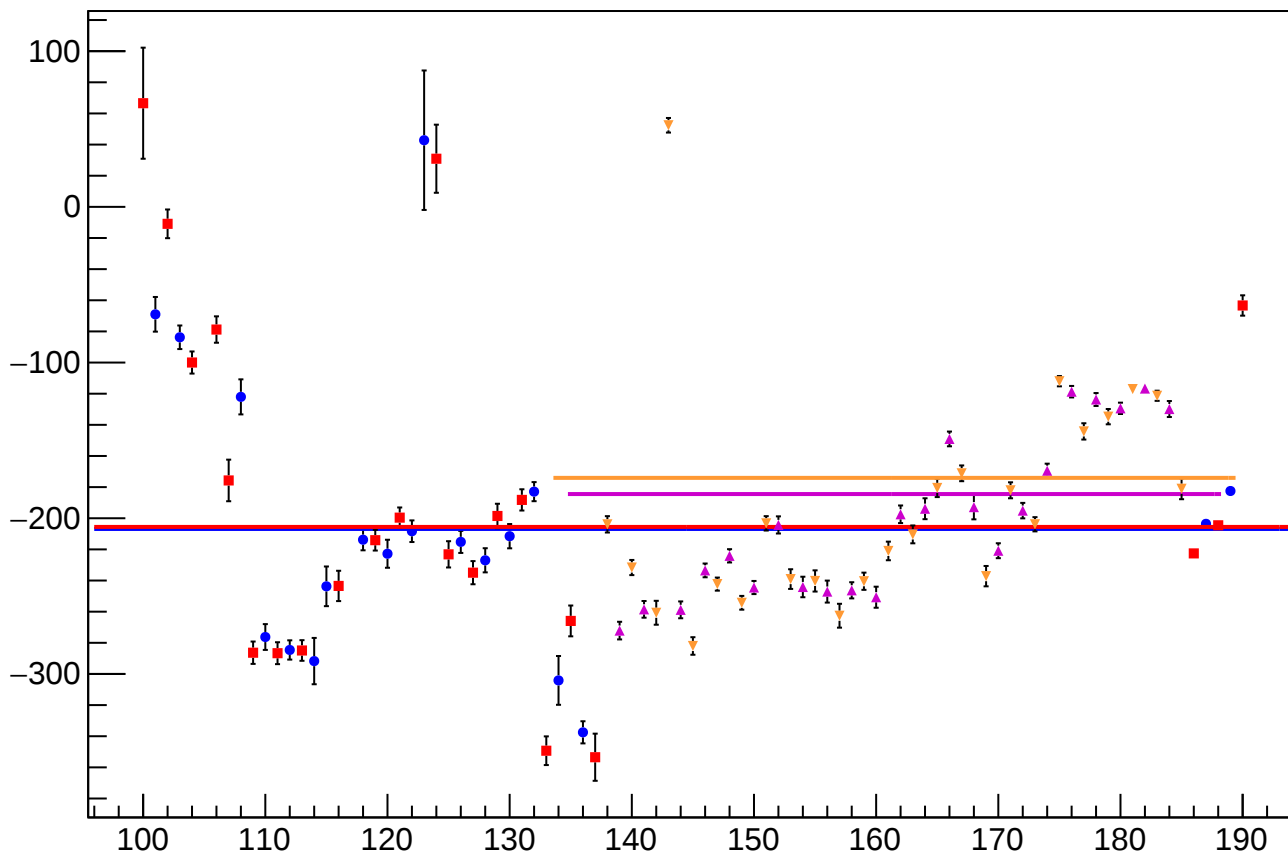
Right: 5.939 ± 0.695 χ^2/NDF : 966.1/40

In: 7.005 ± 0.621 χ^2/NDF : 704.6/41

Out: 4.378 ± 0.586 χ^2/NDF : 854.3/46

All: 5.615 ± 0.426 χ^2/NDF : 1568.3/88

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -206.871 ± 1.475 $\chi^2/\text{NDF}: 1241.4/18$

Left Out: -174.061 ± 0.971 $\chi^2/\text{NDF}: 5443.3/24$

Right Out: -205.567 ± 1.077 $\chi^2/\text{NDF}: 2405.3/21$

Left In: -184.456 ± 0.991 $\chi^2/\text{NDF}: 3051.6/22$

Left: -179.154 ± 0.693 $\chi^2/\text{NDF}: 8551.0/47$

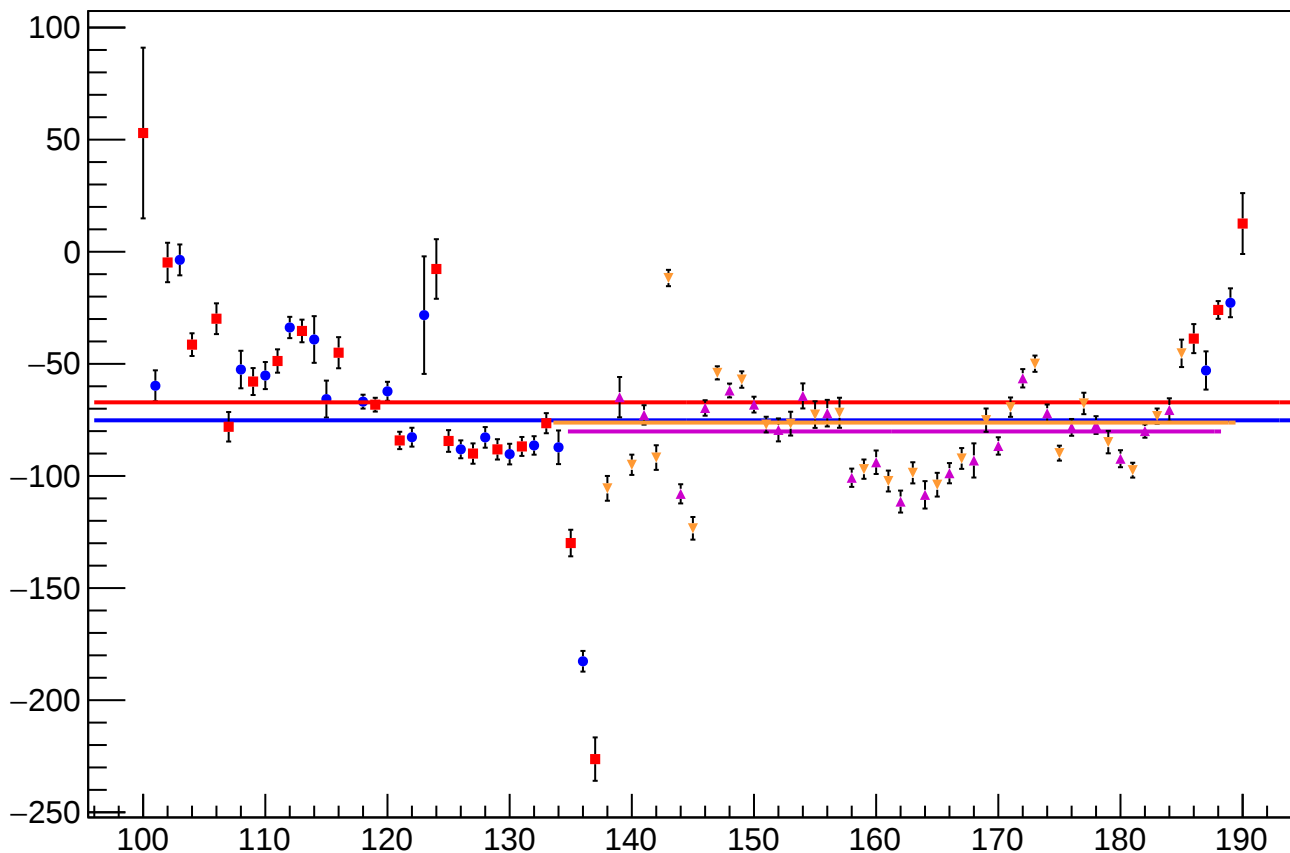
Right: -206.020 ± 0.870 $\chi^2/\text{NDF}: 3647.2/40$

In: -191.421 ± 0.822 $\chi^2/\text{NDF}: 4452.1/41$

Out: -188.178 ± 0.721 $\chi^2/\text{NDF}: 8320.5/46$

All: -189.588 ± 0.542 $\chi^2/\text{NDF}: 12781.3/88$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.182 ± 1.205 χ^2/NDF : 893.2/18

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -67.160 ± 1.134 χ^2/NDF : 853.0/21

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

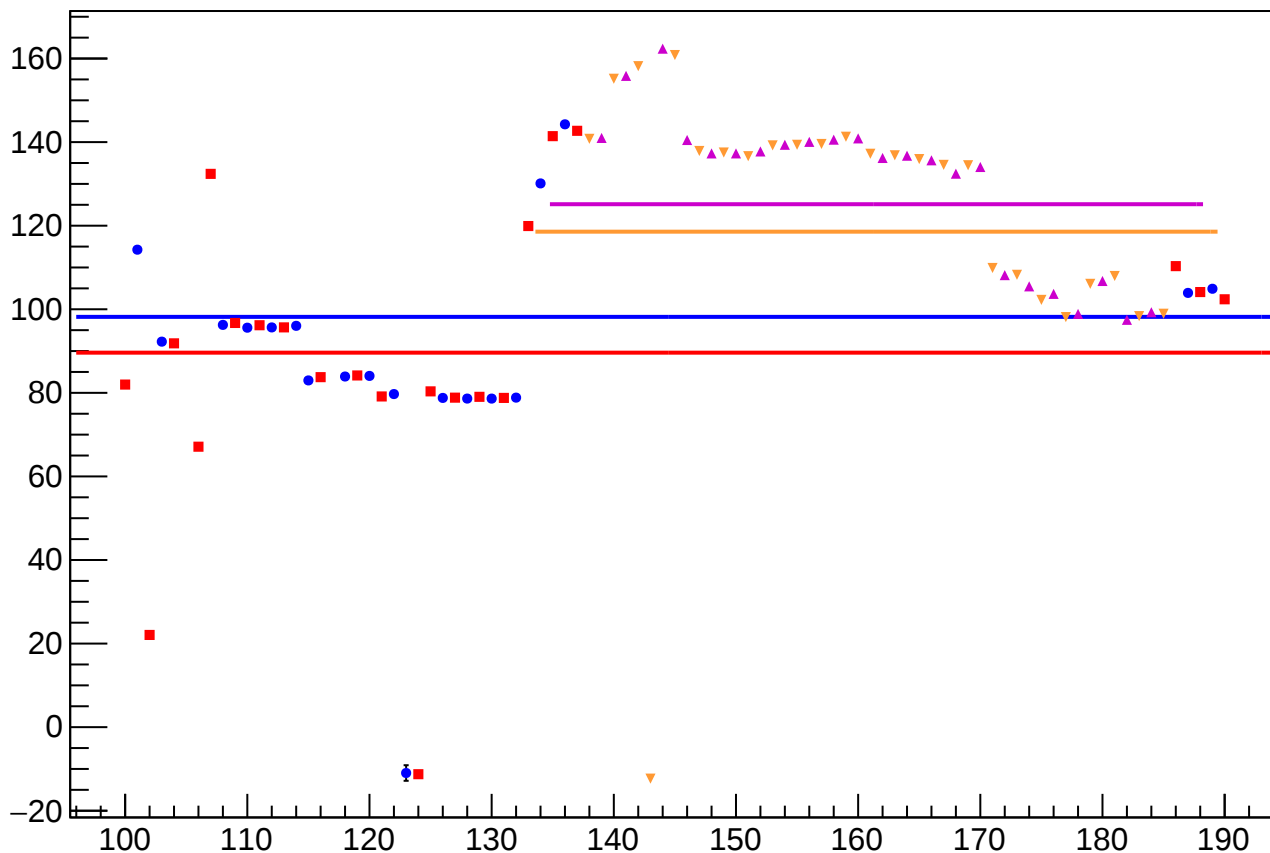
Right: -70.928 ± 0.826 χ^2/NDF : 1769.8/40

In: -78.398 ± 0.715 χ^2/NDF : 1187.5/41

Out: -72.900 ± 0.684 χ^2/NDF : 1694.3/46

All: -75.525 ± 0.494 χ^2/NDF : 2912.6/88

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.182 $\pm$ 0.071 χ^2 /NDF: 94582.9/18

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 89.616 $\pm$ 0.064 χ^2 /NDF: 229921.0/21

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

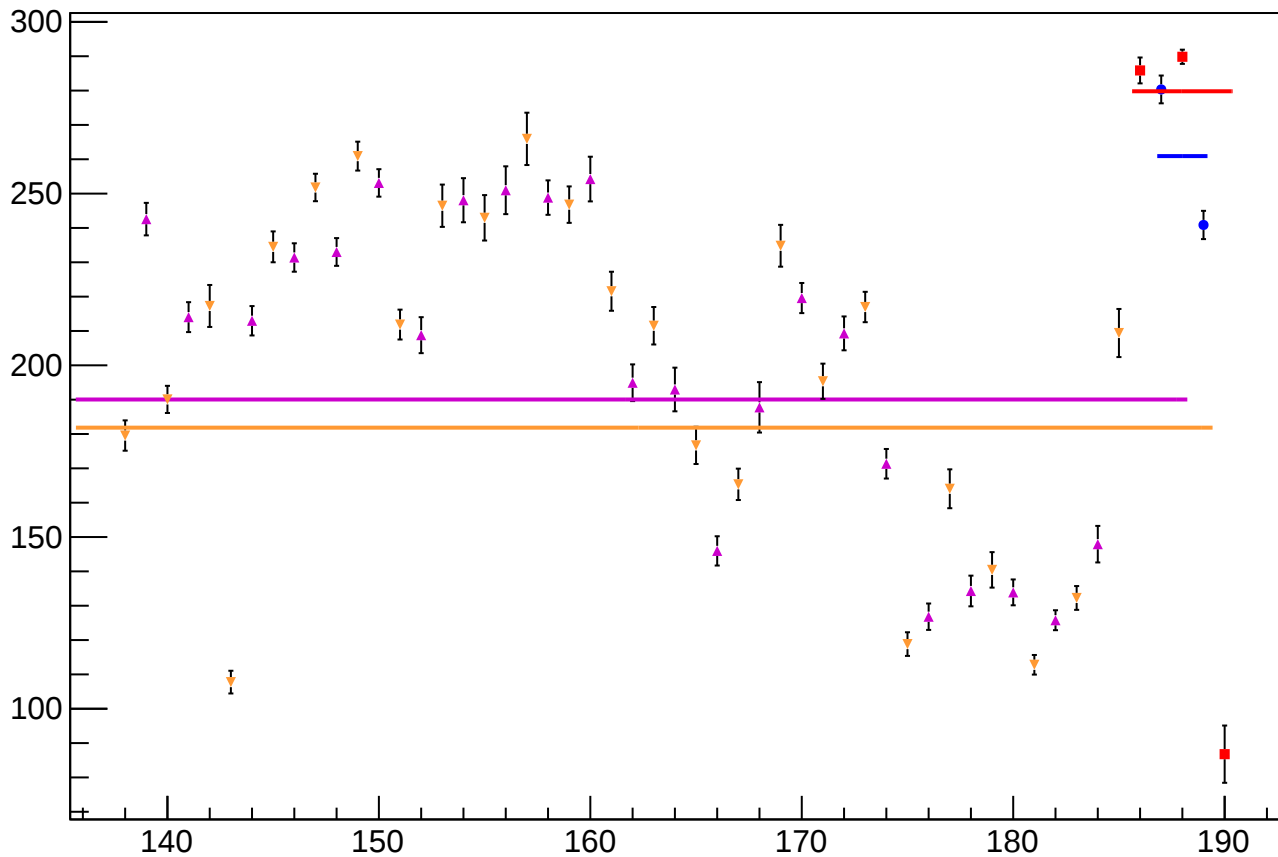
Right: 93.425 $\pm$ 0.047 χ^2 /NDF: 332587.5/40

In: 118.327 $\pm$ 0.036 χ^2 /NDF: 423258.9/41

Out: 110.206 $\pm$ 0.034 χ^2 /NDF: 1106289.0/46

All: 114.087 $\pm$ 0.025 χ^2 /NDF: 1556584.5/88

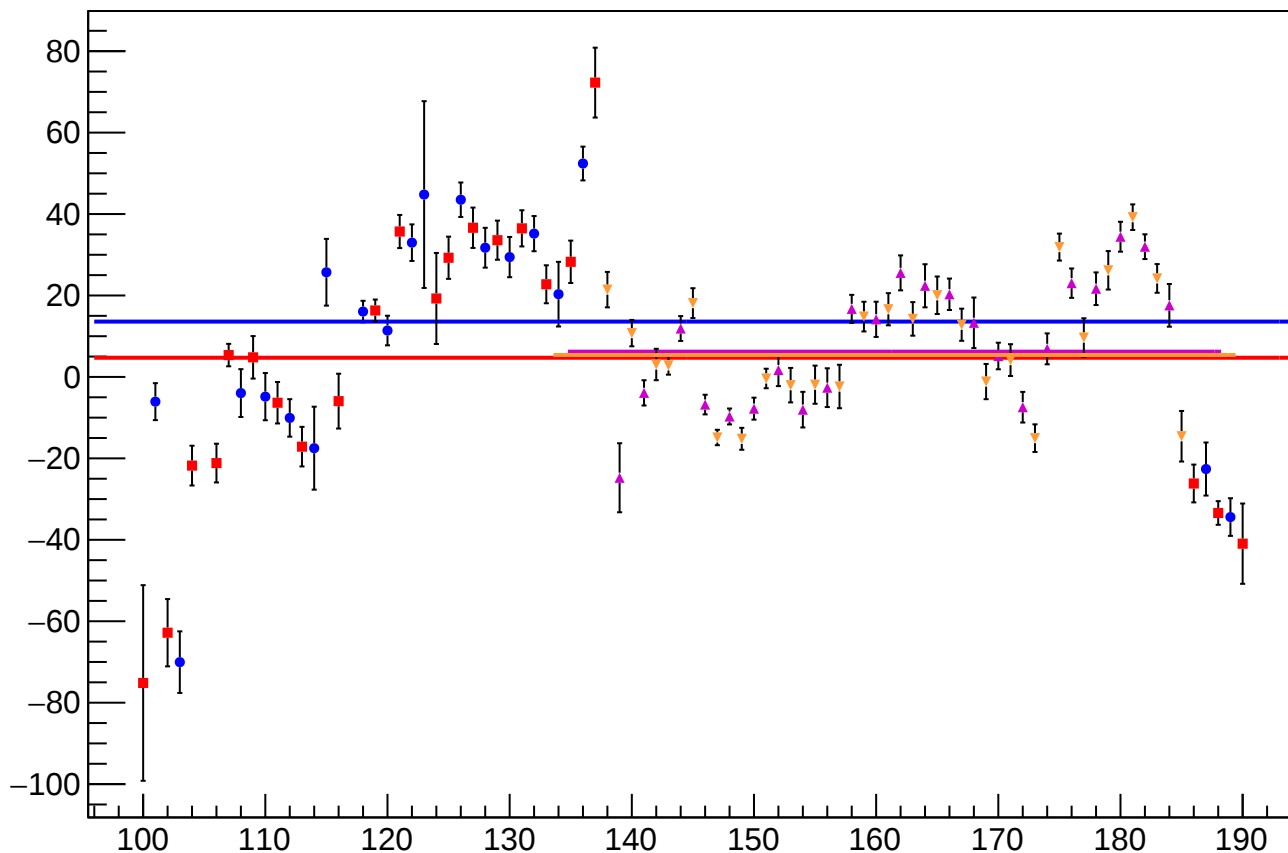
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 260.923 ± 2.885 $\chi^2/\text{NDF}: 46.8/1$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 279.797 ± 1.771 $\chi^2/\text{NDF}: 562.2/2$
 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: 274.629 ± 1.510 $\chi^2/\text{NDF}: 640.1/4$
 In: 197.019 ± 0.905 $\chi^2/\text{NDF}: 3029.4/24$
 Out: 202.422 ± 0.812 $\chi^2/\text{NDF}: 6280.9/27$
 All: 200.012 ± 0.604 $\chi^2/\text{NDF}: 9330.0/52$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.591+/-1.116 χ^2/NDF : 545.8/18

Left Out: 5.394+/-0.688 χ^2/NDF : 526.5/24

Right Out: 4.711+/-0.988 χ^2/NDF : 729.5/21

Left In: 6.206+/-0.732 χ^2/NDF : 407.5/22

Left: 5.775+/-0.501 χ^2/NDF : 934.7/47

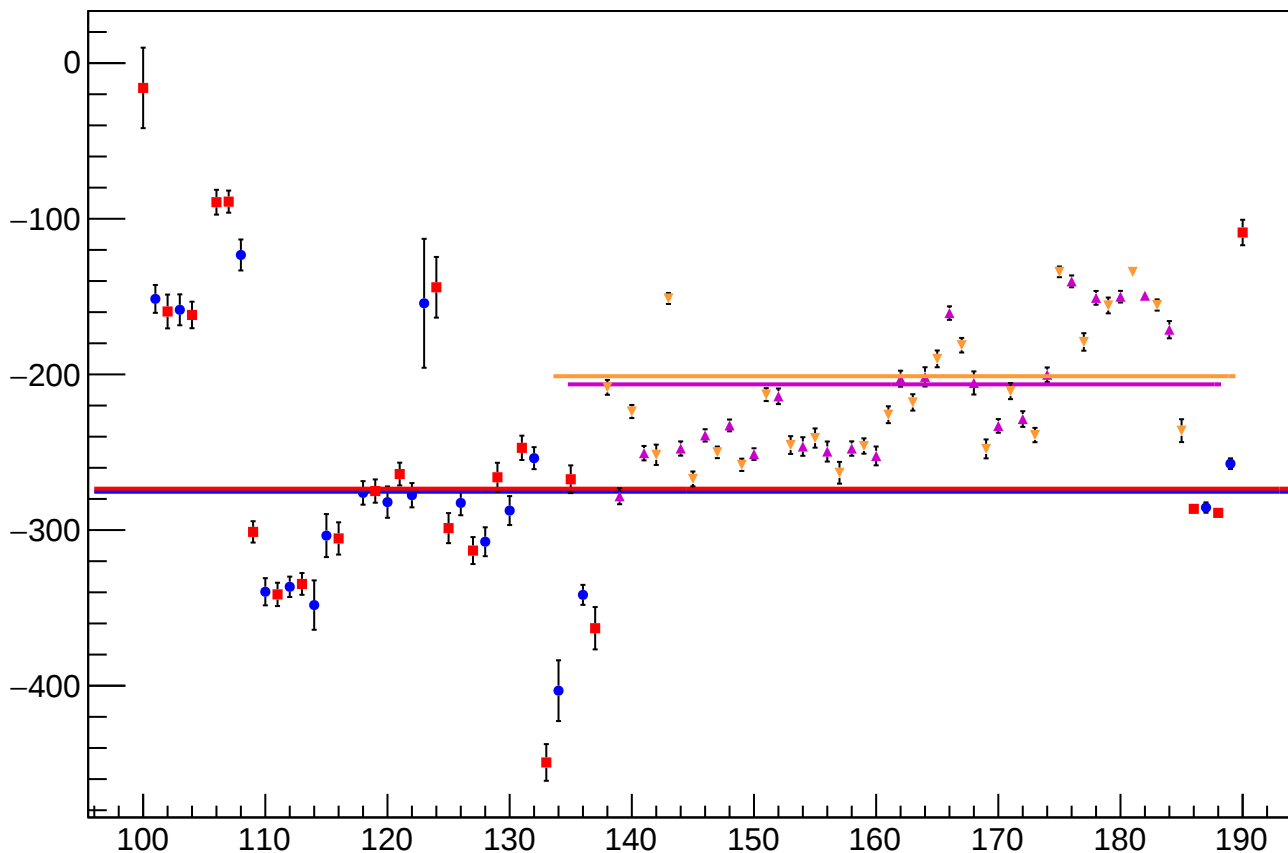
Right: 8.612+/-0.740 χ^2/NDF : 1310.8/40

In: 8.427+/-0.612 χ^2/NDF : 983.9/41

Out: 5.171+/-0.565 χ^2/NDF : 1256.3/46

All: 6.668+/-0.415 χ^2/NDF : 2255.5/88

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -275.356 ± 1.612 χ^2/NDF : 949.1/18

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -273.410 ± 1.168 χ^2/NDF : 2634.4/21

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

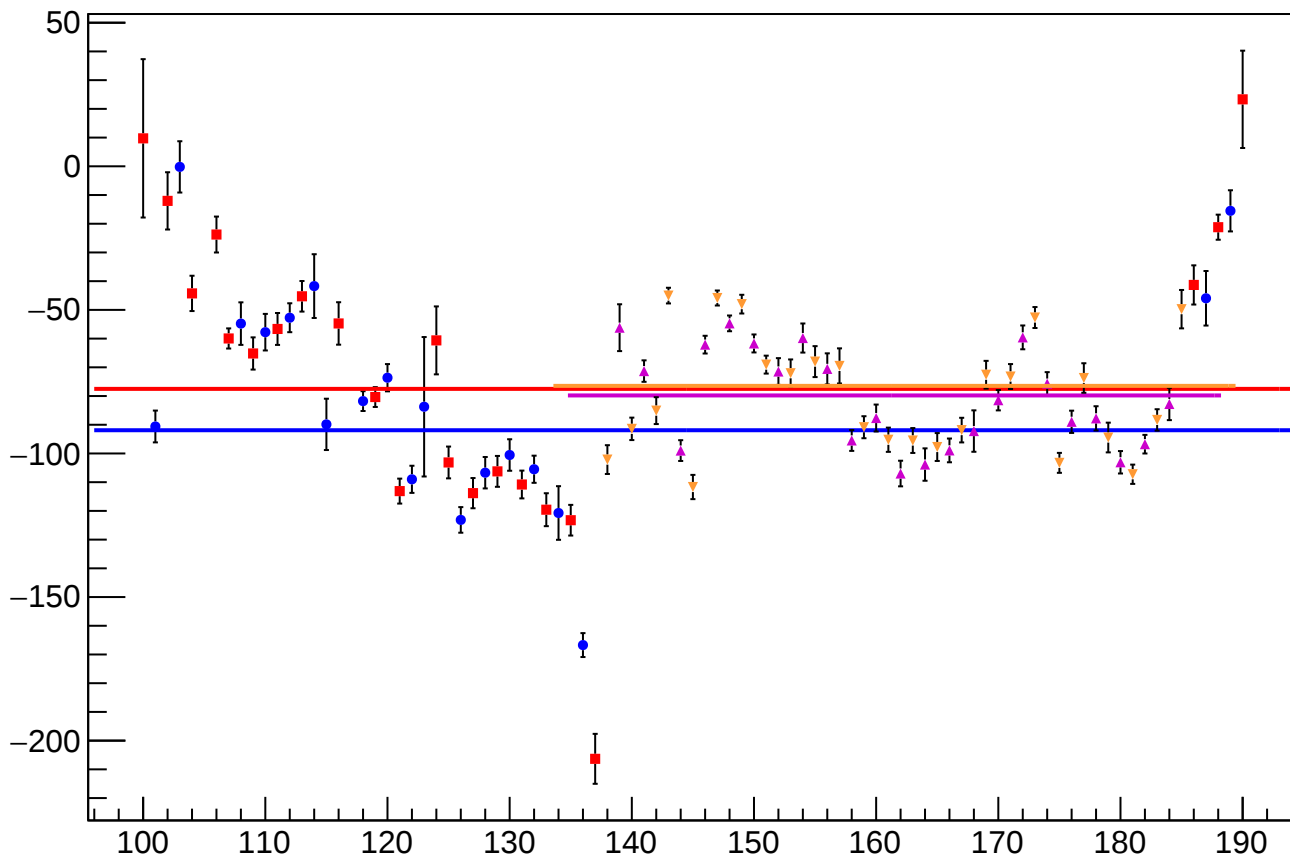
Right: -274.080 ± 0.946 χ^2/NDF : 3584.5/40

In: -224.148 ± 0.818 χ^2/NDF : 4420.0/41

Out: -228.718 ± 0.722 χ^2/NDF : 7488.6/46

All: -226.718 ± 0.541 χ^2/NDF : 11926.1/88

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -91.910 ± 1.308 $\chi^2/\text{NDF}: 813.5/18$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -77.507 ± 1.188 $\chi^2/\text{NDF}: 1037.5/21$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

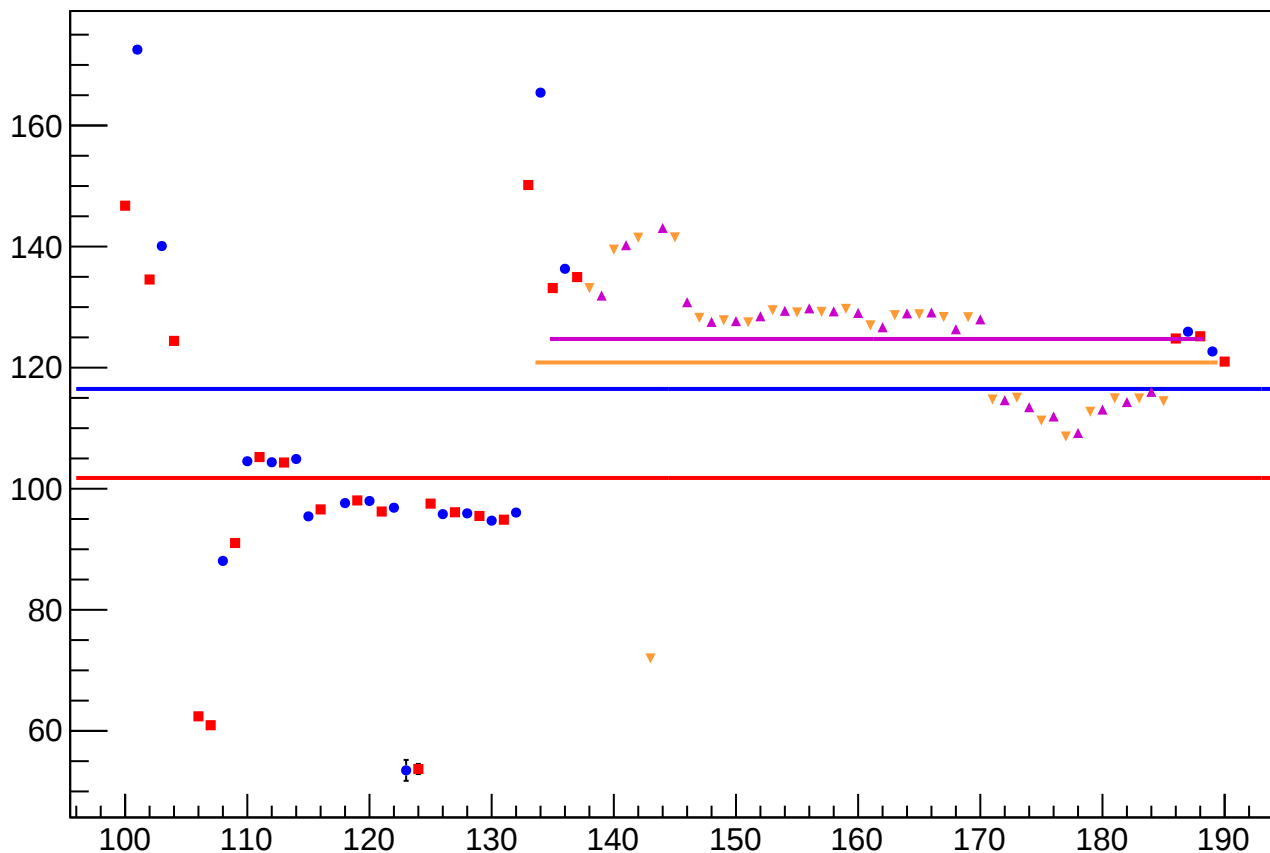
Right: -84.018 ± 0.879 $\chi^2/\text{NDF}: 1917.5/40$

In: -83.329 ± 0.707 $\chi^2/\text{NDF}: 1286.5/41$

Out: -76.785 ± 0.662 $\chi^2/\text{NDF}: 1819.4/46$

All: -79.842 ± 0.483 $\chi^2/\text{NDF}: 3151.6/88$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 116.483 $\pm$ 0.076 χ^2 /NDF: 106316.4/18

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 101.780 $\pm$ 0.065 χ^2 /NDF: 188242.6/21

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

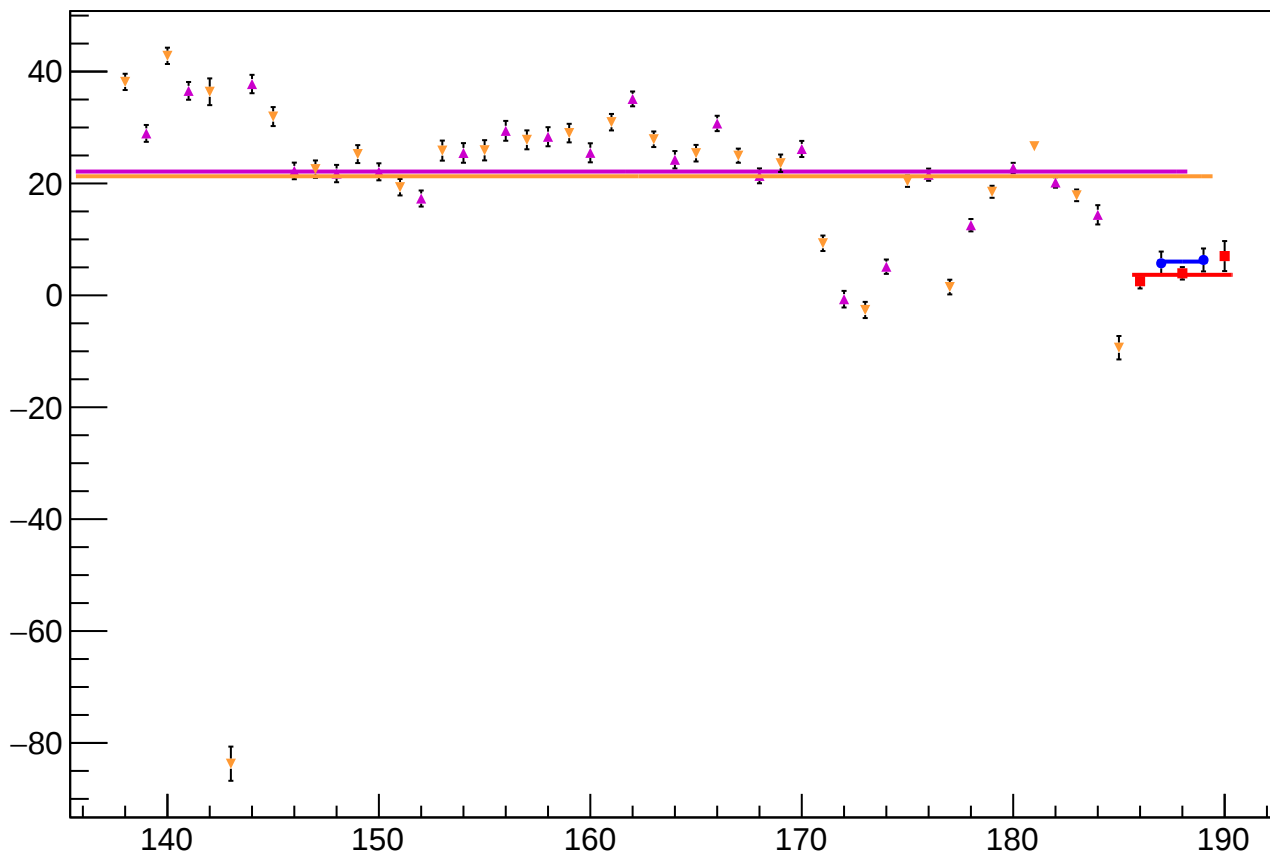
Right: 107.975 $\pm$ 0.049 χ^2 /NDF: 316280.3/40

In: 122.996 $\pm$ 0.035 χ^2 /NDF:166950.7/41

Out: 115.958 $\pm$ 0.033 χ^2 /NDF:435502.1/46

All: 119.264 $\pm$ 0.024 χ^2 /NDF: 624062.0/88

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.035 ± 1.467 χ^2/NDF : 0.0/1

Left Out: 21.282 ± 0.282 χ^2/NDF : 2600.5/24

Right Out: 3.669 ± 0.805 χ^2/NDF : 2.4/2

Left In: 22.127 ± 0.285 χ^2/NDF : 900.2/22

Left: 21.700 ± 0.201 χ^2/NDF : 3505.2/47

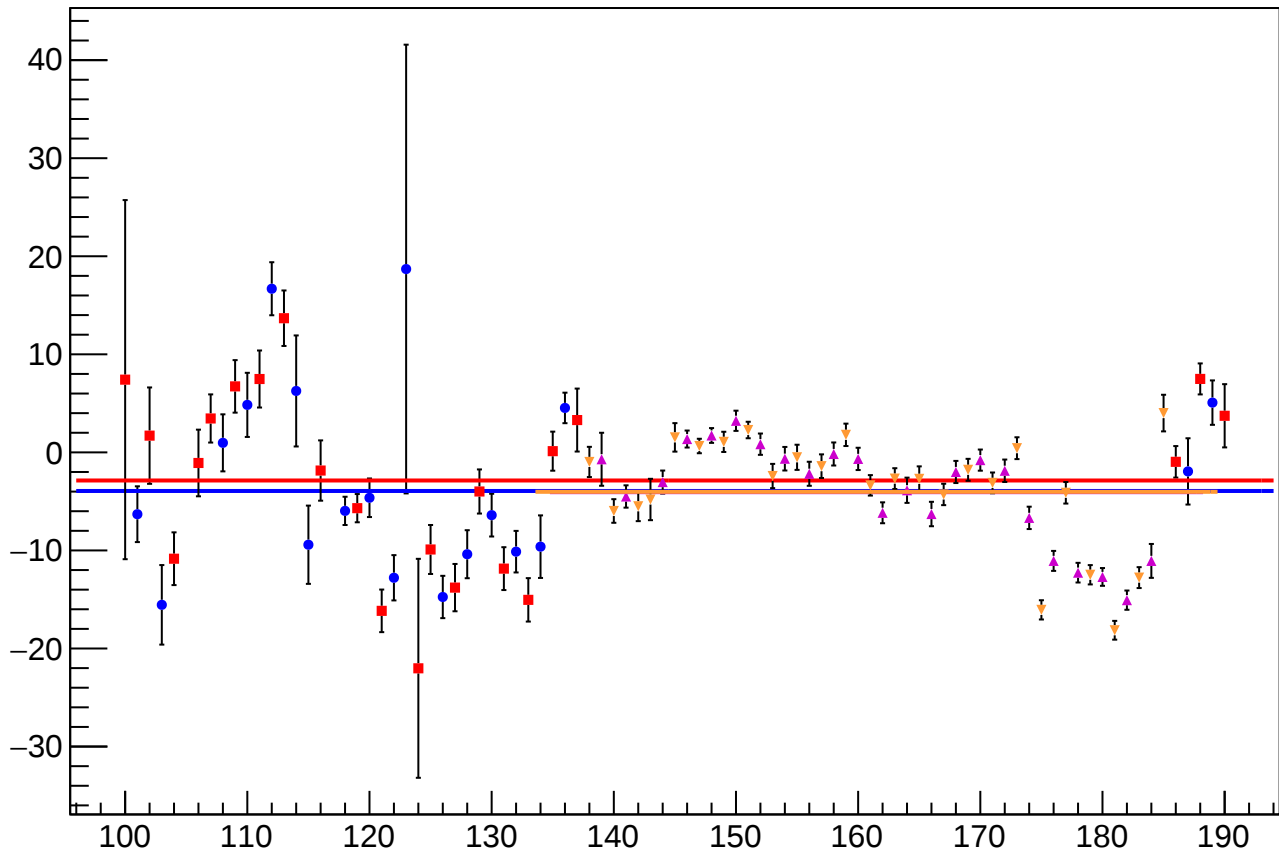
Right: 4.217 ± 0.706 χ^2/NDF : 4.4/4

In: 21.539 ± 0.280 χ^2/NDF : 1016.3/24

Out: 19.353 ± 0.267 χ^2/NDF : 3028.8/27

All: 20.391 ± 0.193 χ^2/NDF : 4077.0/52

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.936 ± 0.562 $\chi^2/\text{NDF}: 190.9/18$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -2.867 ± 0.513 $\chi^2/\text{NDF}: 251.3/21$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

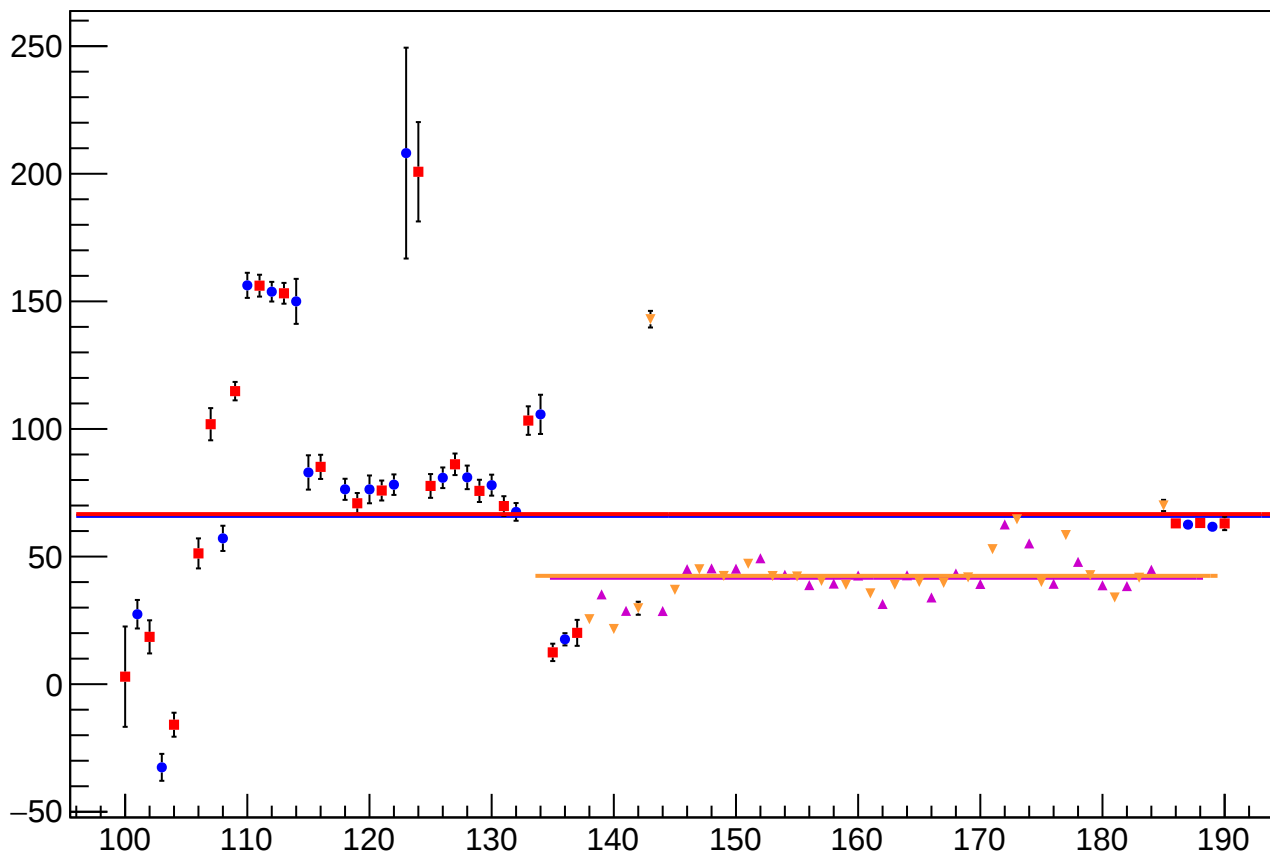
Right: -3.353 ± 0.379 $\chi^2/\text{NDF}: 444.1/40$

In: -4.041 ± 0.211 $\chi^2/\text{NDF}: 768.1/41$

Out: -3.838 ± 0.205 $\chi^2/\text{NDF}: 989.6/46$

All: -3.936 ± 0.147 $\chi^2/\text{NDF}: 1758.3/88$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 65.942 $\pm$ 0.814 χ^2 /NDF: 1861.3/18

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF: 2016.0/24

Right Out: 66.642 $\pm$ 0.561 χ^2 /NDF: 1988.6/21

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF: 630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

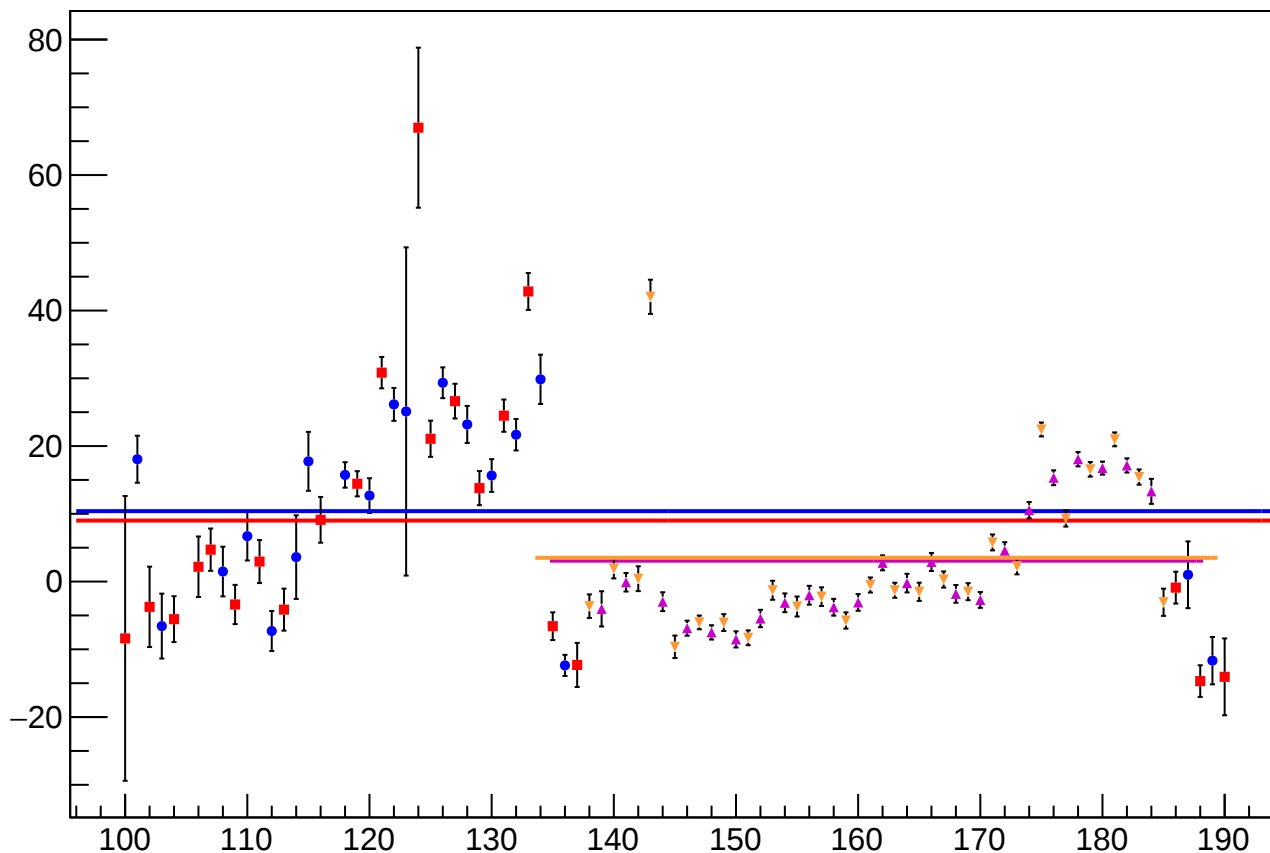
Right: 66.417 $\pm$ 0.462 χ^2 /NDF: 3850.4/40

In: 44.325 $\pm$ 0.268 χ^2 /NDF: 3281.6/41

Out: 47.332 $\pm$ 0.252 χ^2 /NDF: 5489.6/46

All: 45.923 $\pm$ 0.184 χ^2 /NDF: 8838.0/88

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.395+/-0.649 χ^2/NDF : 519.9/18

Left Out: 3.505+/-0.252 χ^2/NDF : 1691.3/24

Right Out: 9.001+/-0.614 χ^2/NDF : 695.8/21

Left In: 3.081+/-0.257 χ^2/NDF : 1265.7/22

Left: 3.297+/-0.180 χ^2/NDF : 2958.4/47

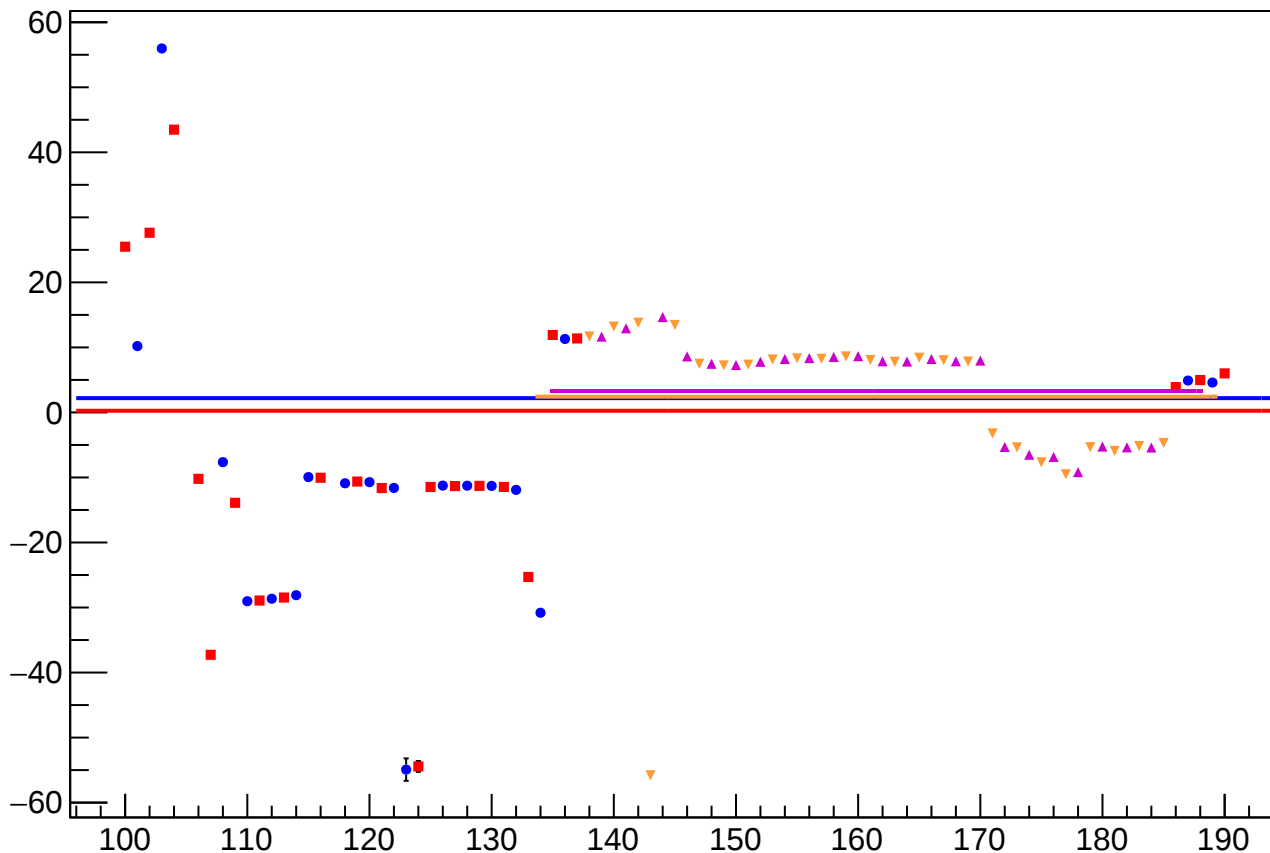
Right: 9.659+/-0.446 χ^2/NDF : 1218.1/40

In: 4.072+/-0.239 χ^2/NDF : 1895.2/41

Out: 4.300+/-0.233 χ^2/NDF : 2455.7/46

All: 4.188+/-0.167 χ^2/NDF : 4351.4/88

reg_asym_atl_dd_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.197 $\pm$ 0.036 χ^2 /NDF: 358248.6/18

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 0.259 $\pm$ 0.034 χ^2 /NDF: 364827.1/21

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

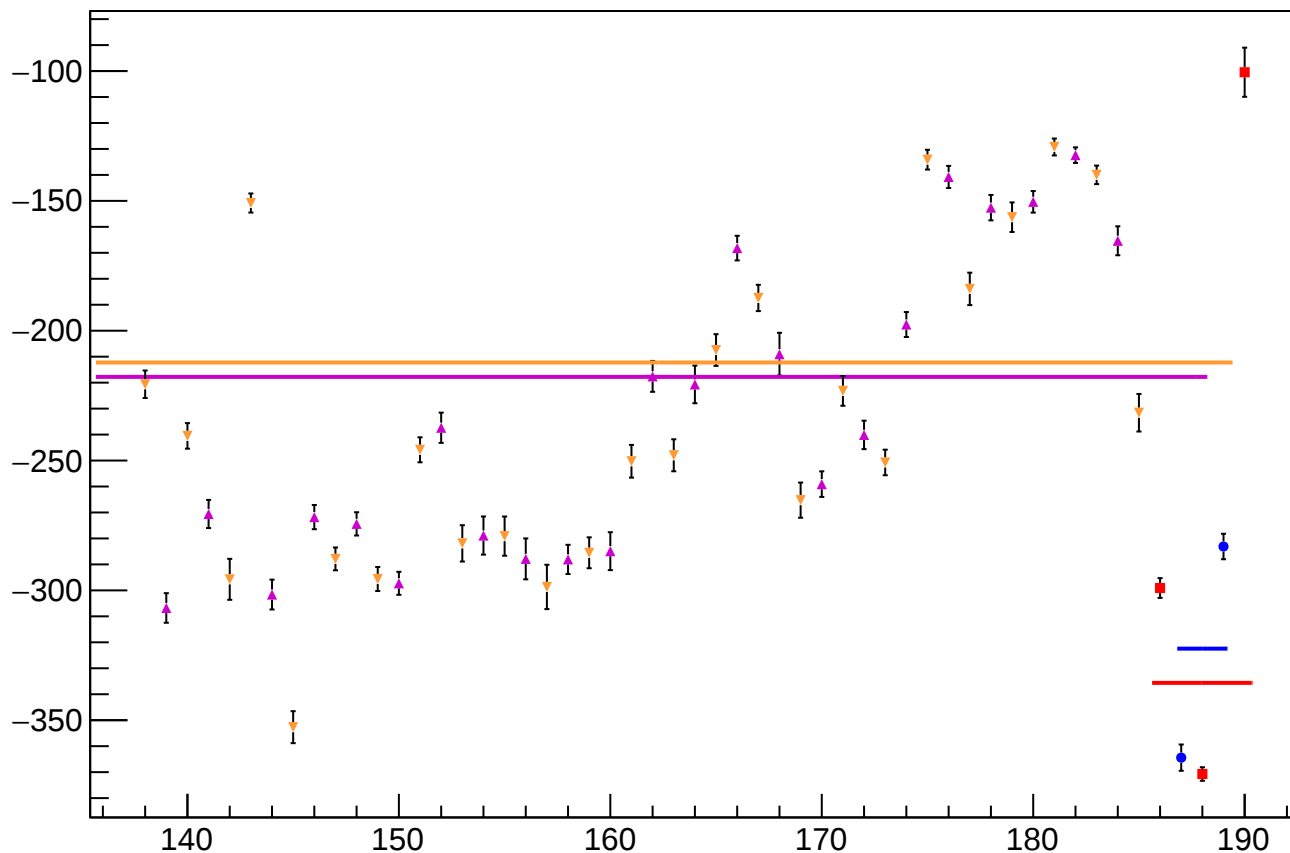
Right: 1.175 $\pm$ 0.025 χ^2 /NDF: 724619.3/40

In: 3.188 $\pm$ 0.011 χ^2 /NDF: 763418.3/41

Out: 2.200 $\pm$ 0.011 χ^2 /NDF: 984863.9/46

All: 2.687 $\pm$ 0.008 χ^2 /NDF: 1752305.7/88

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -322.437+/-3.520 χ^2/NDF : 133.2/1

Left Out: -212.231+/-1.029 χ^2/NDF : 3875.4/24

Right Out: -335.620+/-2.101 χ^2/NDF : 890.4/2

Left In: -217.779+/-1.067 χ^2/NDF : 3448.9/22

Left: -214.906+/-0.741 χ^2/NDF : 7338.3/47

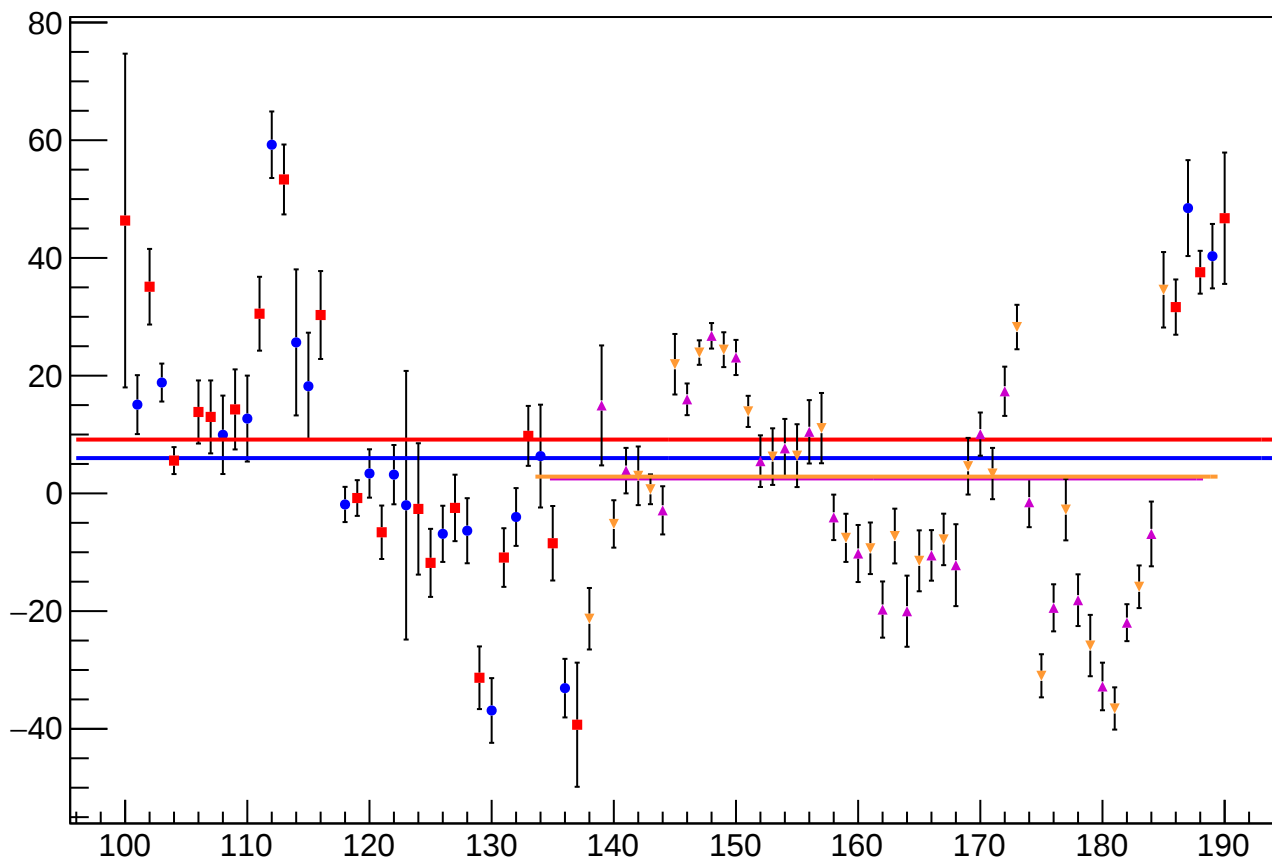
Right: -332.159+/-1.804 χ^2/NDF : 1034.0/4

In: -226.581+/-1.021 χ^2/NDF : 4391.6/24

Out: -236.123+/-0.924 χ^2/NDF : 7547.8/27

All: -231.825+/-0.685 χ^2/NDF : 11987.4/52

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.997 ± 1.201 $\chi^2/\text{NDF}: 326.5/18$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 9.144 ± 1.070 $\chi^2/\text{NDF}: 336.7/21$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

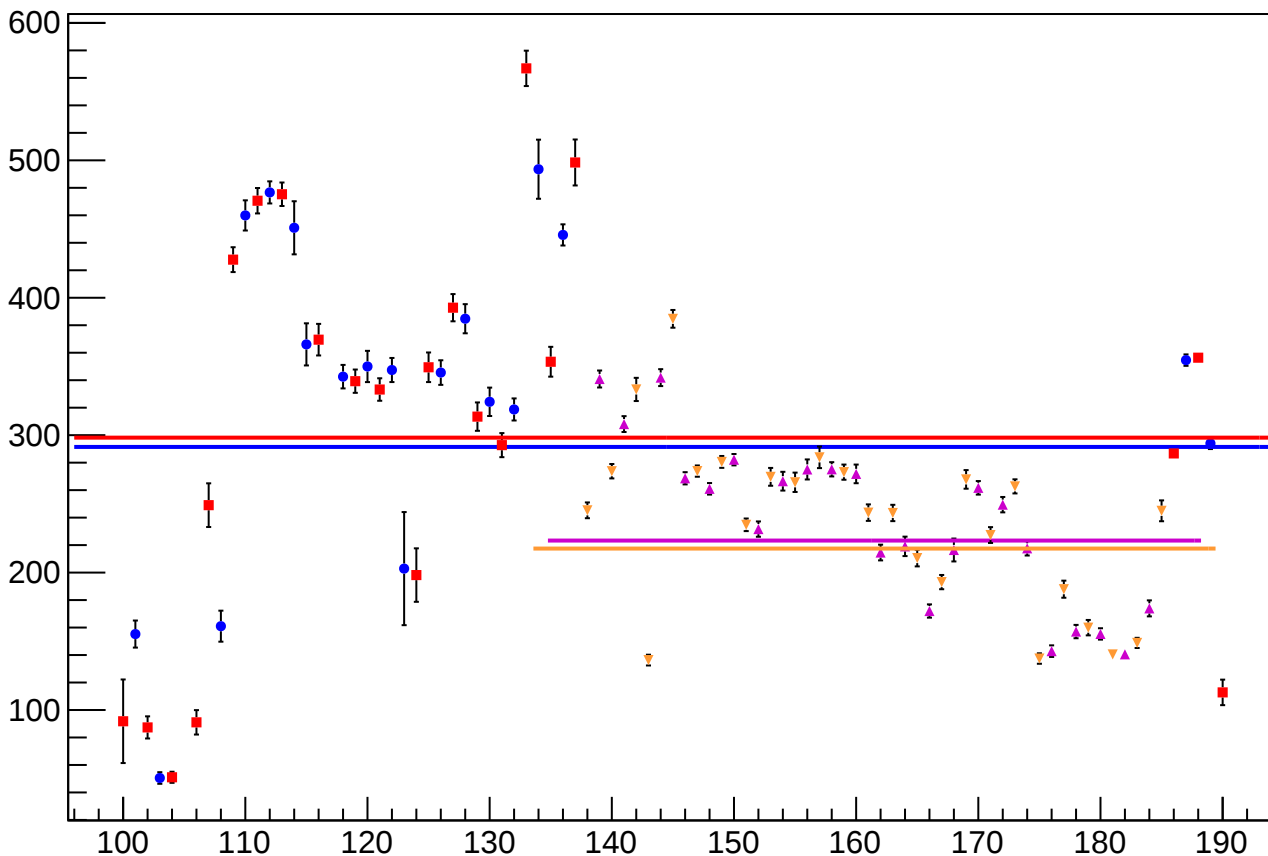
Right: 7.753 ± 0.799 $\chi^2/\text{NDF}: 667.0/40$

In: 3.643 ± 0.679 $\chi^2/\text{NDF}: 805.8/41$

Out: 5.014 ± 0.627 $\chi^2/\text{NDF}: 941.6/46$

All: 4.383 ± 0.461 $\chi^2/\text{NDF}: 1749.5/88$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 291.441 $\pm$ 1.762 χ^2 /NDF: 5393.3/18

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF: 3769.5/24

Right Out: 298.202 $\pm$ 1.316 χ^2 /NDF: 8029.8/21

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF: 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

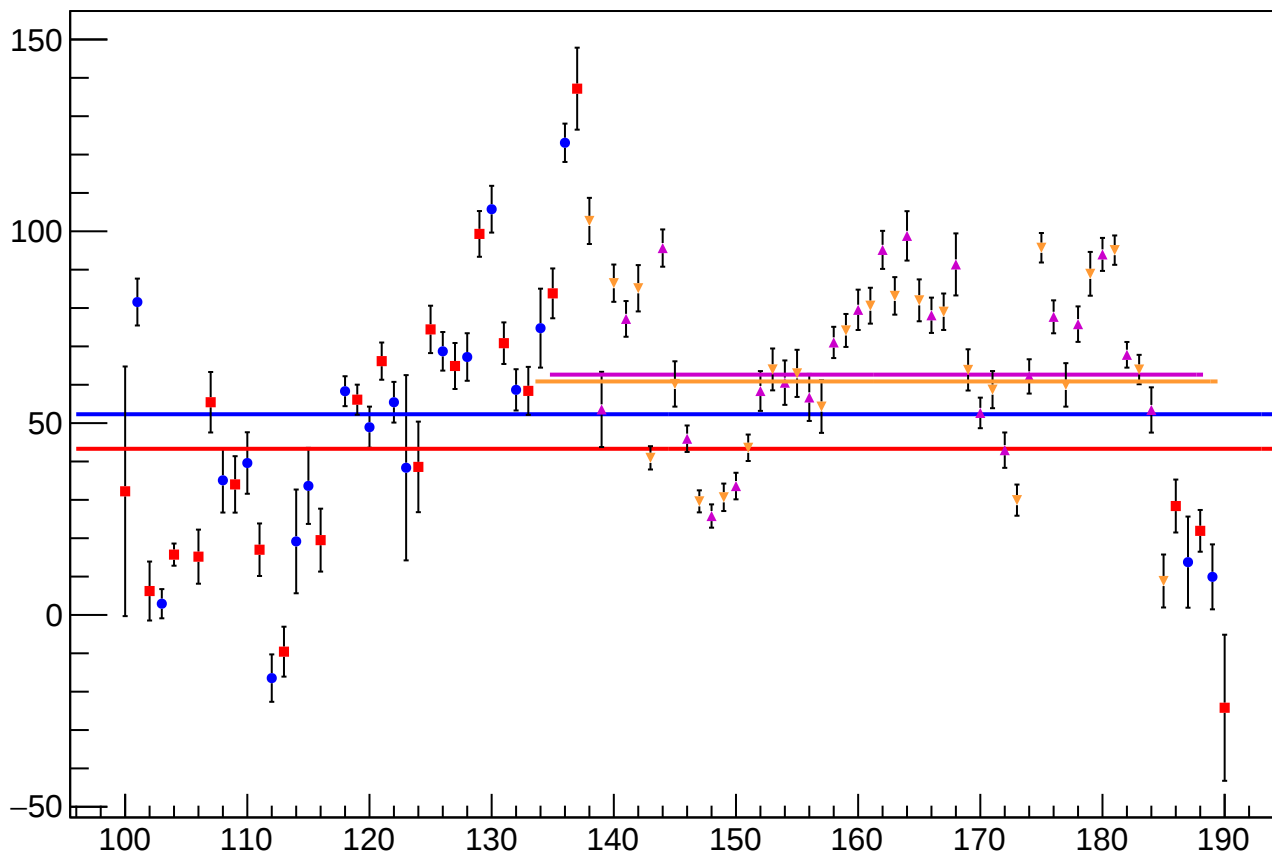
Right: 295.780 $\pm$ 1.055 χ^2 /NDF: 13432.6/40

In: 241.464 $\pm$ 0.909 χ^2 /NDF: 9868.3/41

Out: 248.223 $\pm$ 0.812 χ^2 /NDF: 14127.4/46

All: 245.224 $\pm$ 0.606 χ^2 /NDF: 24026.4/88

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 52.316 ± 1.410 $\chi^2/\text{NDF}: 670.4/18$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 43.309 ± 1.292 $\chi^2/\text{NDF}: 563.7/21$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

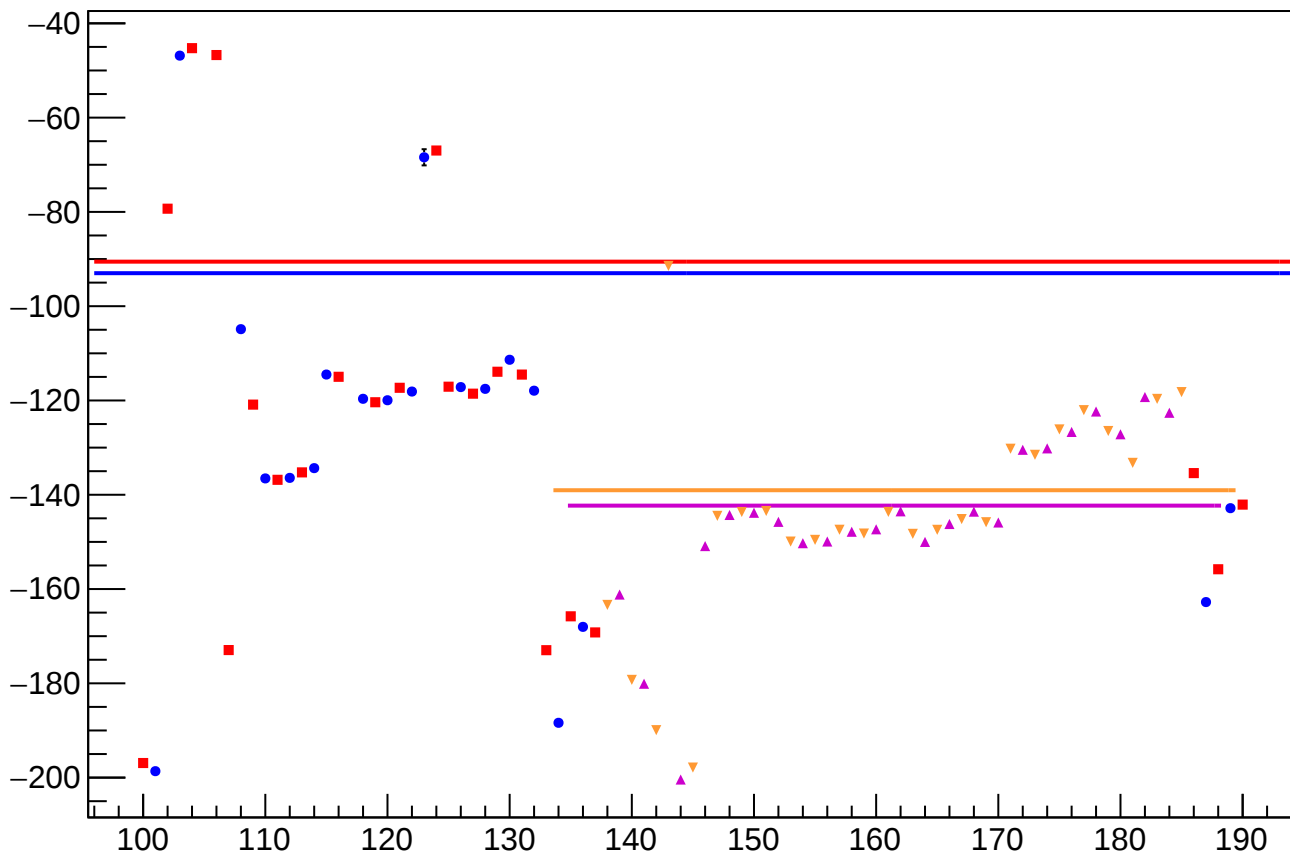
Right: 47.420 ± 0.953 $\chi^2/\text{NDF}: 1256.3/40$

In: 59.451 ± 0.784 $\chi^2/\text{NDF}: 1222.9/41$

Out: 55.158 ± 0.737 $\chi^2/\text{NDF}: 1419.9/46$

All: 57.172 ± 0.537 $\chi^2/\text{NDF}: 2658.7/88$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -92.998 ± 0.067 $\chi^2/\text{NDF}: 560653.0/18$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -90.552 ± 0.063 $\chi^2/\text{NDF}: 568788.4/21$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

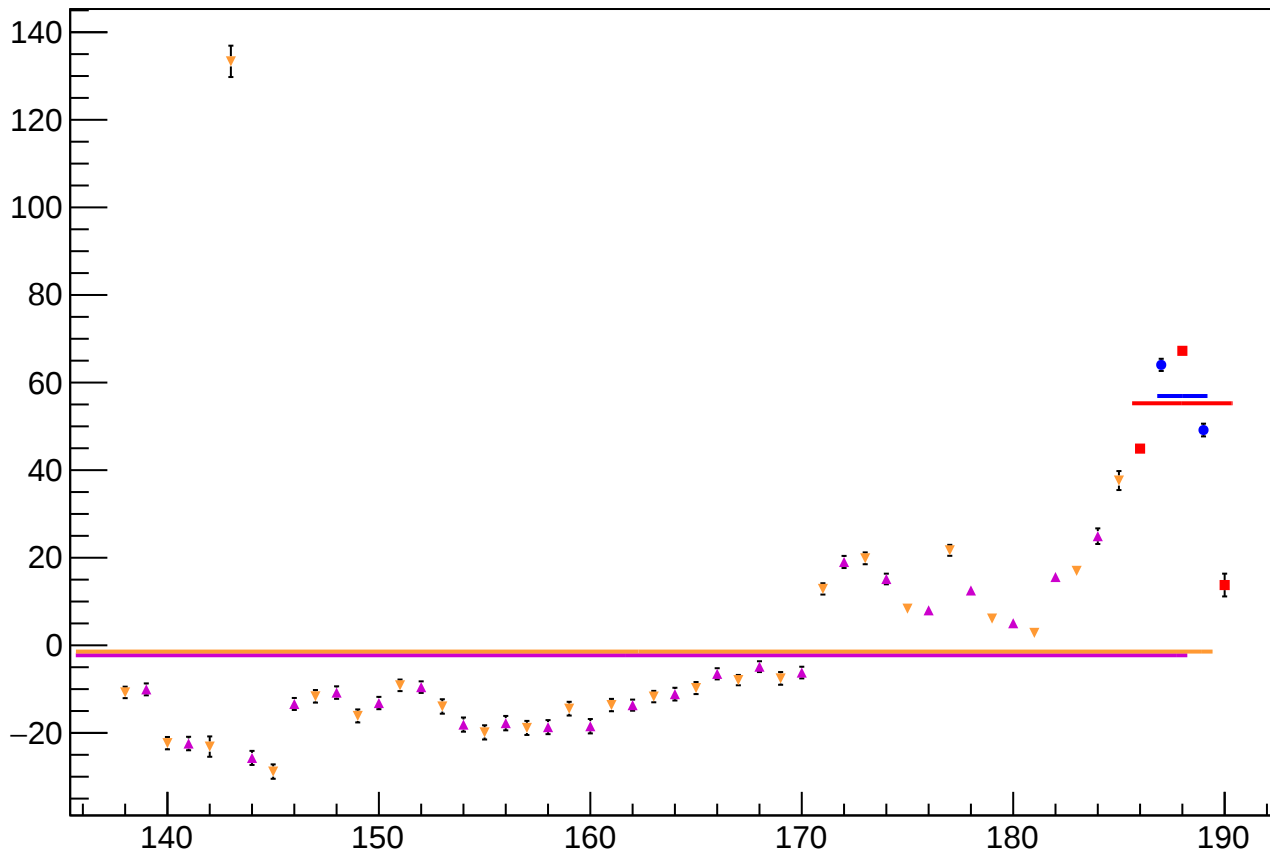
Right: -91.701 ± 0.046 $\chi^2/\text{NDF}: 1130158.9/40$

In: -127.258 ± 0.037 $\chi^2/\text{NDF}: 1085888.2/41$

Out: -123.552 ± 0.035 $\chi^2/\text{NDF}: 1235545.5/46$

All: -125.334 ± 0.025 $\chi^2/\text{NDF}: 2326715.0/88$

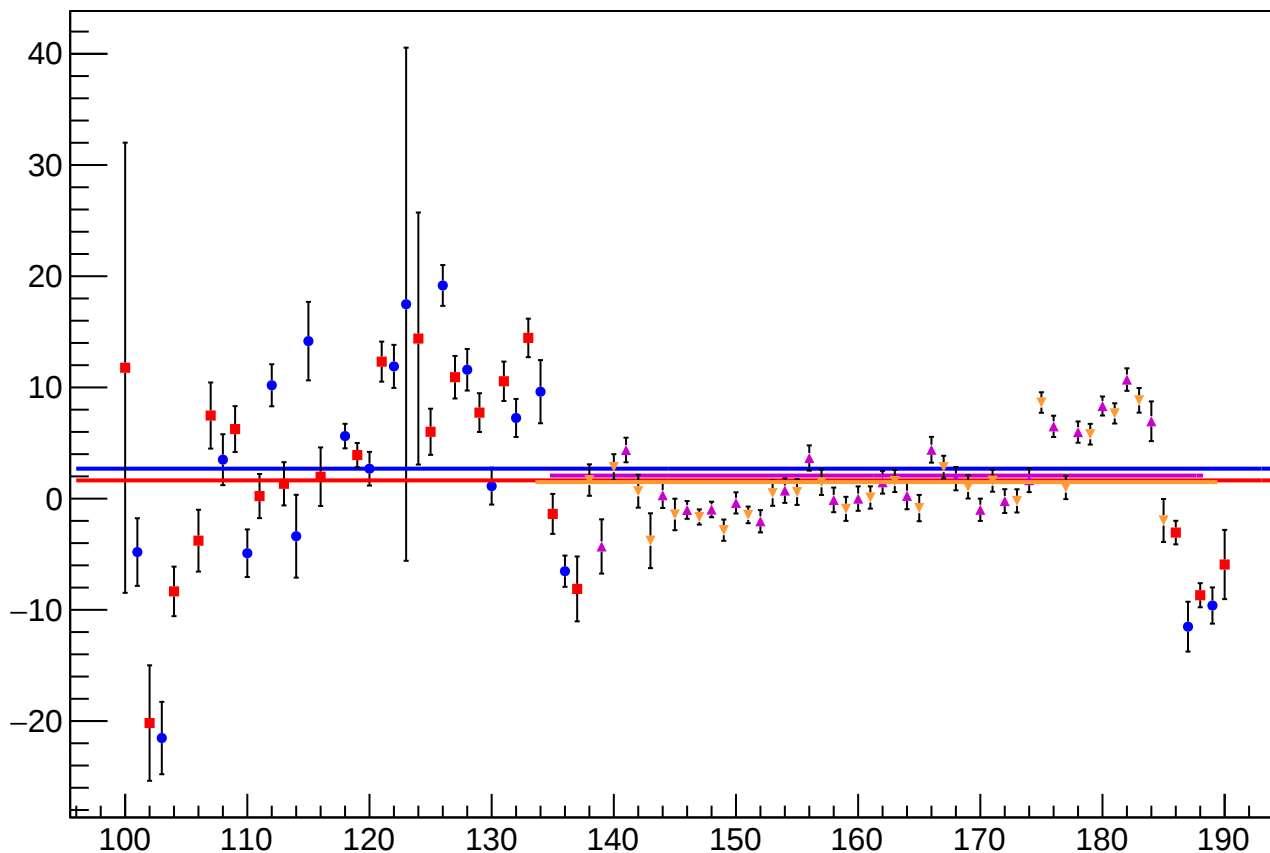
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 56.930+/-1.007 χ^2/NDF : 54.5/1
 Left Out: -1.427+/-0.268 χ^2/NDF : 4339.0/24
 Right Out: 55.269+/-0.563 χ^2/NDF : 636.9/2
 Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47
 Right: 55.665+/-0.492 χ^2/NDF : 693.5/4
 In: 1.724+/-0.261 χ^2/NDF : 5802.1/24
 Out: 9.016+/-0.242 χ^2/NDF : 13242.2/27
 All: 5.655+/-0.177 χ^2/NDF : 19463.7/52

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.694 $\pm$ 0.444 χ^2/NDF : 390.4/18

Left Out: 1.491 $\pm$ 0.210 χ^2/NDF :259.1/24

Right Out: 1.641 $\pm$ 0.398 χ^2/NDF : 342.6/21

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

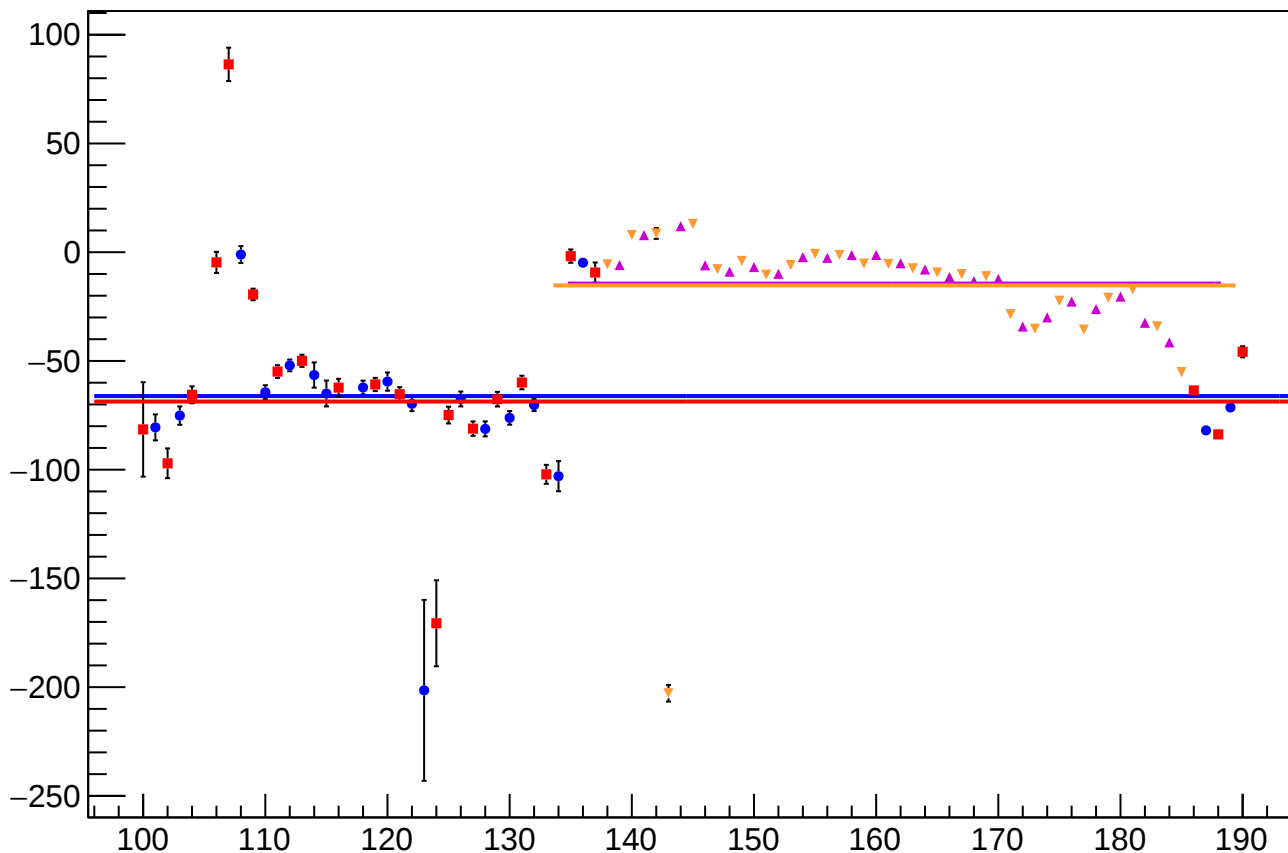
Right: 2.110 $\pm$ 0.297 χ^2/NDF : 736.1/40

In: 2.192 $\pm$ 0.194 χ^2/NDF :666.5/41

Out: 1.524 $\pm$ 0.186 χ^2/NDF :601.8/46

All: 1.844 $\pm$ 0.134 χ^2/NDF : 1274.5/88

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.156 ± 0.602 χ^2/NDF : 1406.5/18

Left Out: -15.279 ± 0.267 χ^2/NDF : 4820.1/24

Right Out: -68.665 ± 0.402 χ^2/NDF : 2490.2/21

Left In: -14.406 ± 0.269 χ^2/NDF : 2032.4/22

Left: -14.846 ± 0.189 χ^2/NDF : 6857.8/47

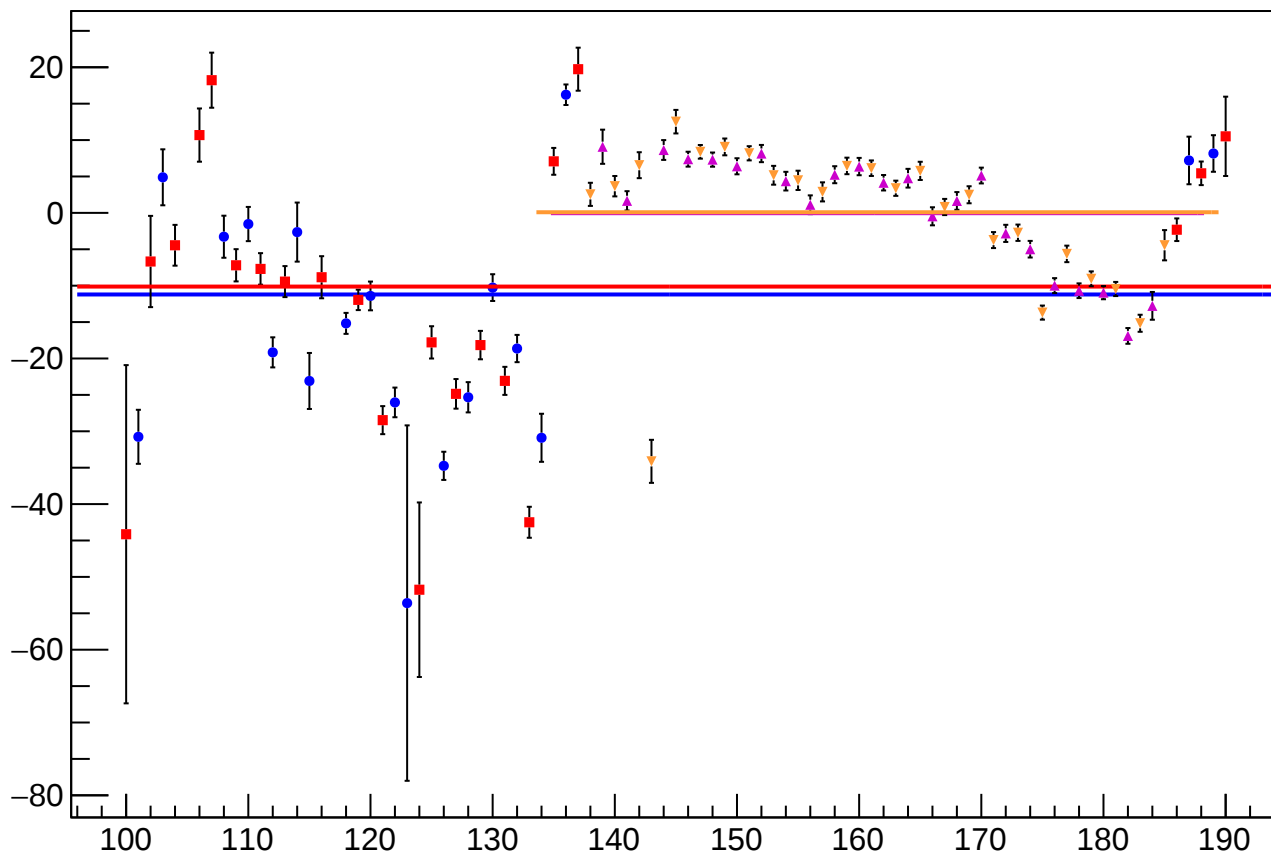
Right: -67.890 ± 0.334 χ^2/NDF : 3908.6/40

In: -23.031 ± 0.246 χ^2/NDF : 9602.4/41

Out: -31.583 ± 0.222 χ^2/NDF : 19538.5/46

All: -27.732 ± 0.165 χ^2/NDF : 29807.0/88

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -11.208 ± 0.519 χ^2/NDF : 877.5/18

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -10.123 ± 0.484 χ^2/NDF : 881.8/21

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

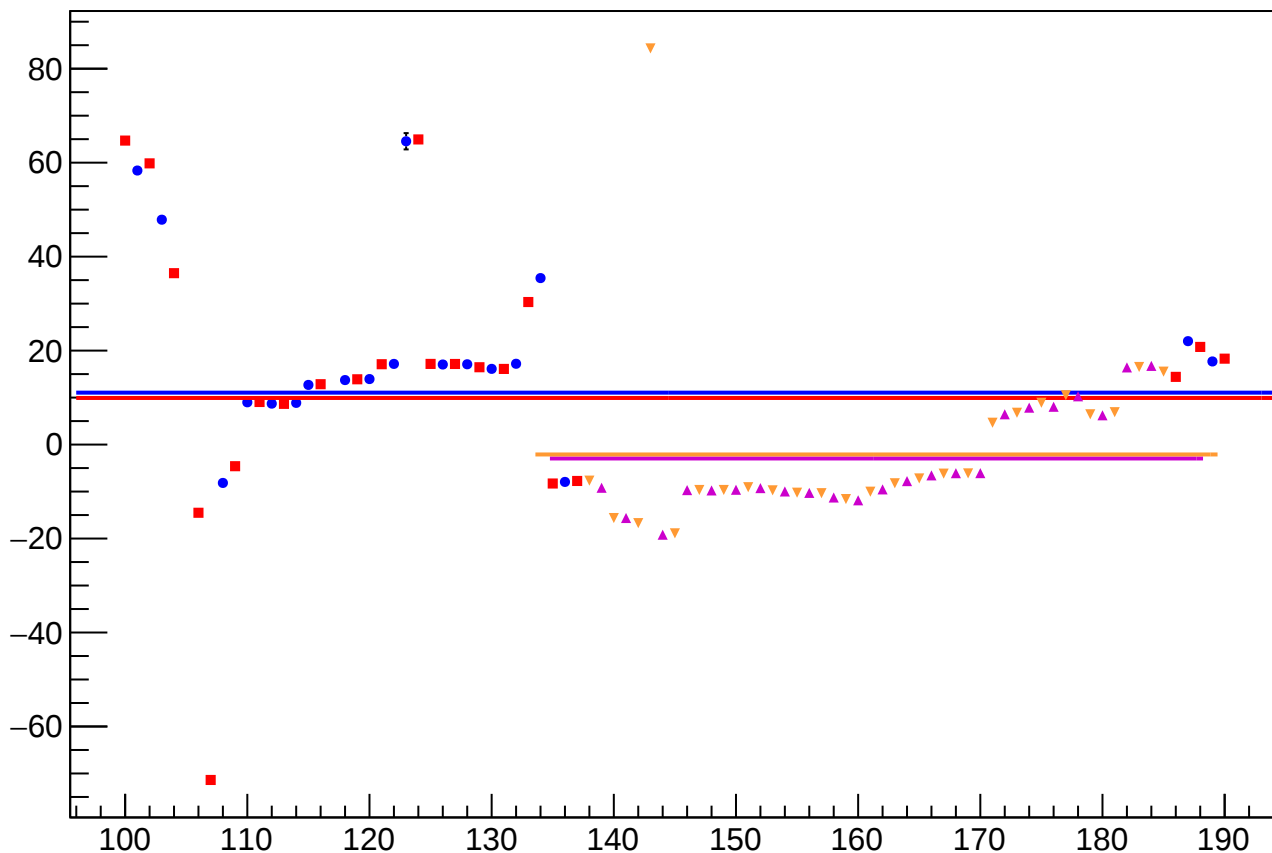
Right: -10.627 ± 0.354 χ^2/NDF : 1761.6/40

In: -2.052 ± 0.220 χ^2/NDF : 2285.1/41

Out: -1.907 ± 0.214 χ^2/NDF : 2412.8/46

All: -1.977 ± 0.153 χ^2/NDF : 4698.1/88

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.053+/-0.029 χ^2/NDF : 387894.0/18

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 9.921+/-0.028 χ^2/NDF : 569529.8/21

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

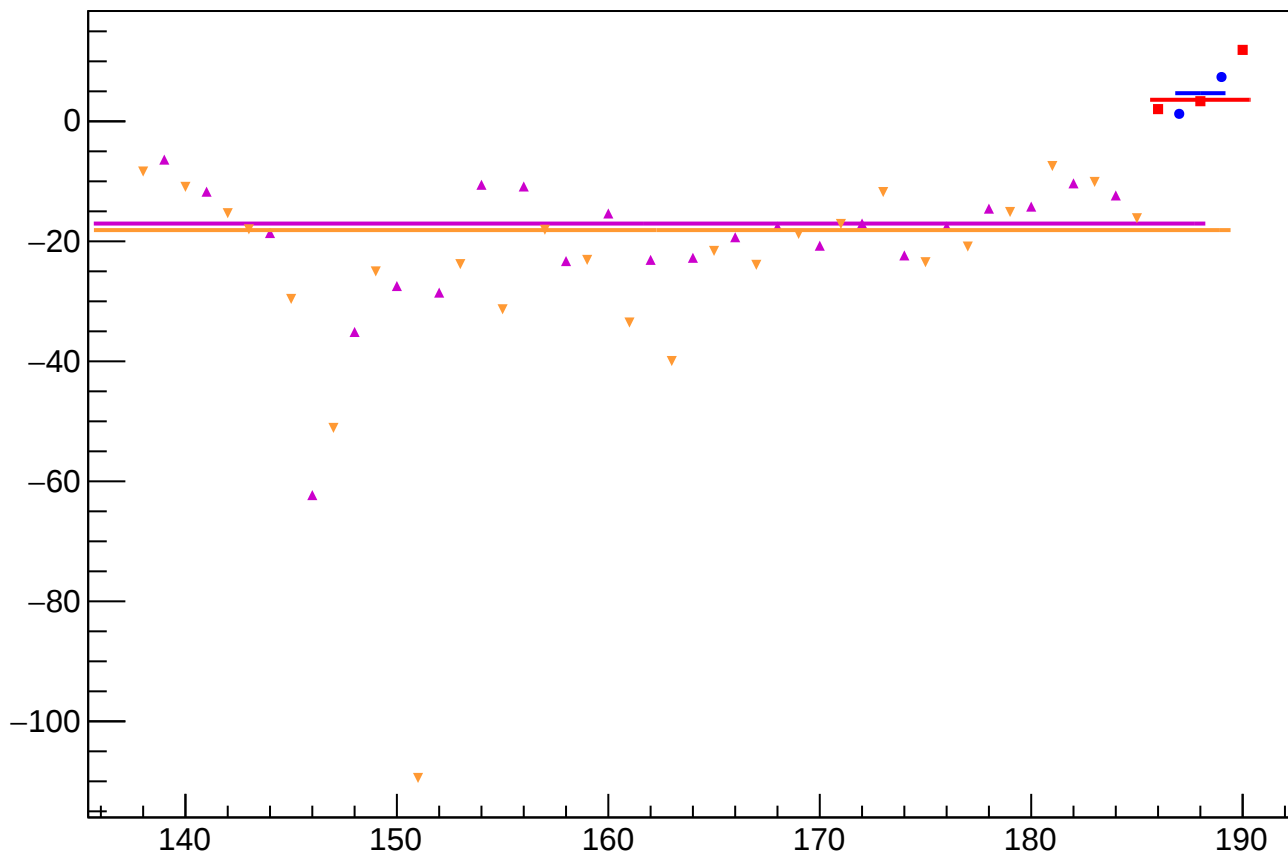
Right: 10.460+/-0.020 χ^2/NDF : 958201.3/40

In: -1.236+/-0.010 χ^2/NDF : 1350347.8/41

Out: -0.518+/-0.010 χ^2/NDF : 1822654.7/46

All: -0.873+/-0.007 χ^2/NDF : 3175463.0/88

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.692 ± 0.187 $\chi^2/\text{NDF}: 266.5/1$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 3.593 ± 0.093 $\chi^2/\text{NDF}: 572.3/2$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

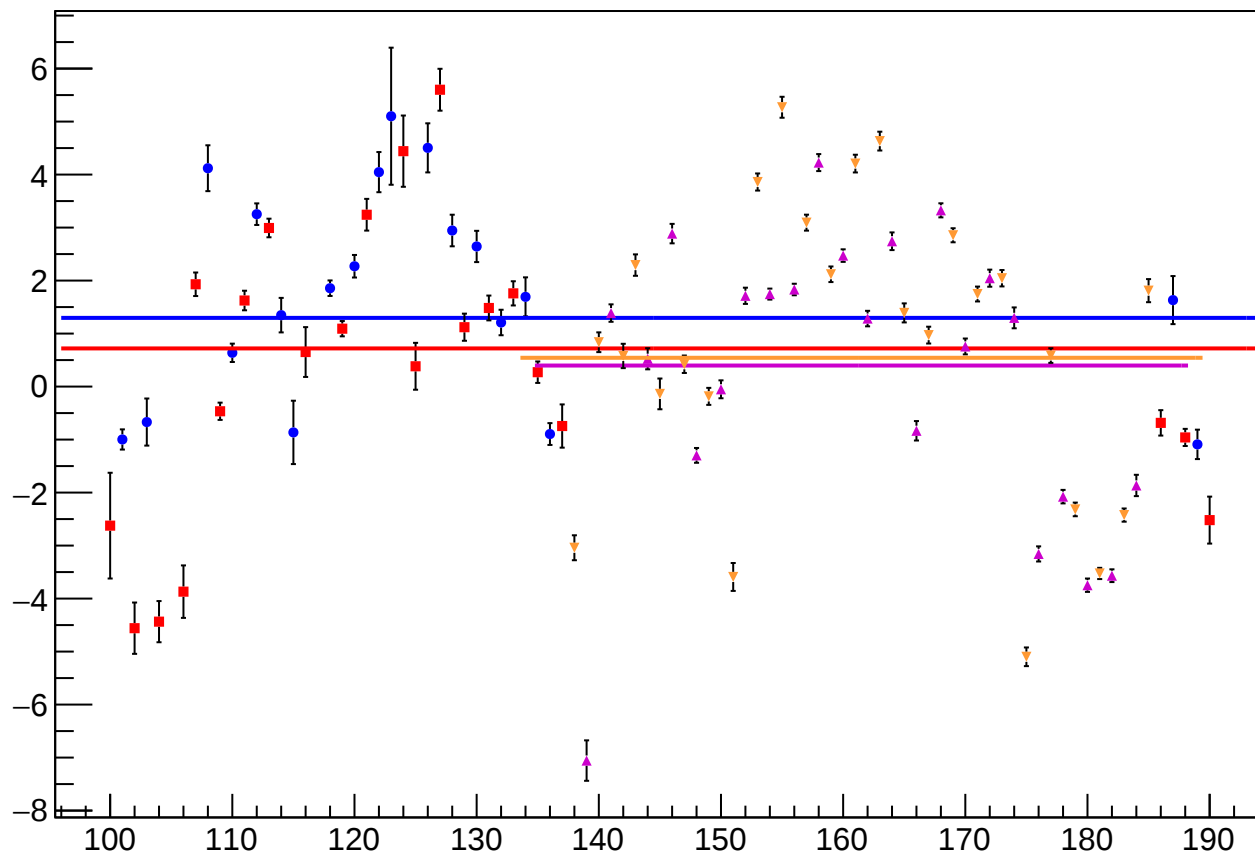
Right: 3.811 ± 0.083 $\chi^2/\text{NDF}: 866.5/4$

In: -16.166 ± 0.037 $\chi^2/\text{NDF}: 57422.0/24$

Out: -14.885 ± 0.036 $\chi^2/\text{NDF}: 135635.5/27$

All: -15.500 ± 0.026 $\chi^2/\text{NDF}: 193668.8/52$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.296 ± 0.060 $\chi^2/\text{NDF}: 712.4/18$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.720 ± 0.053 $\chi^2/\text{NDF}: 1175.4/21$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

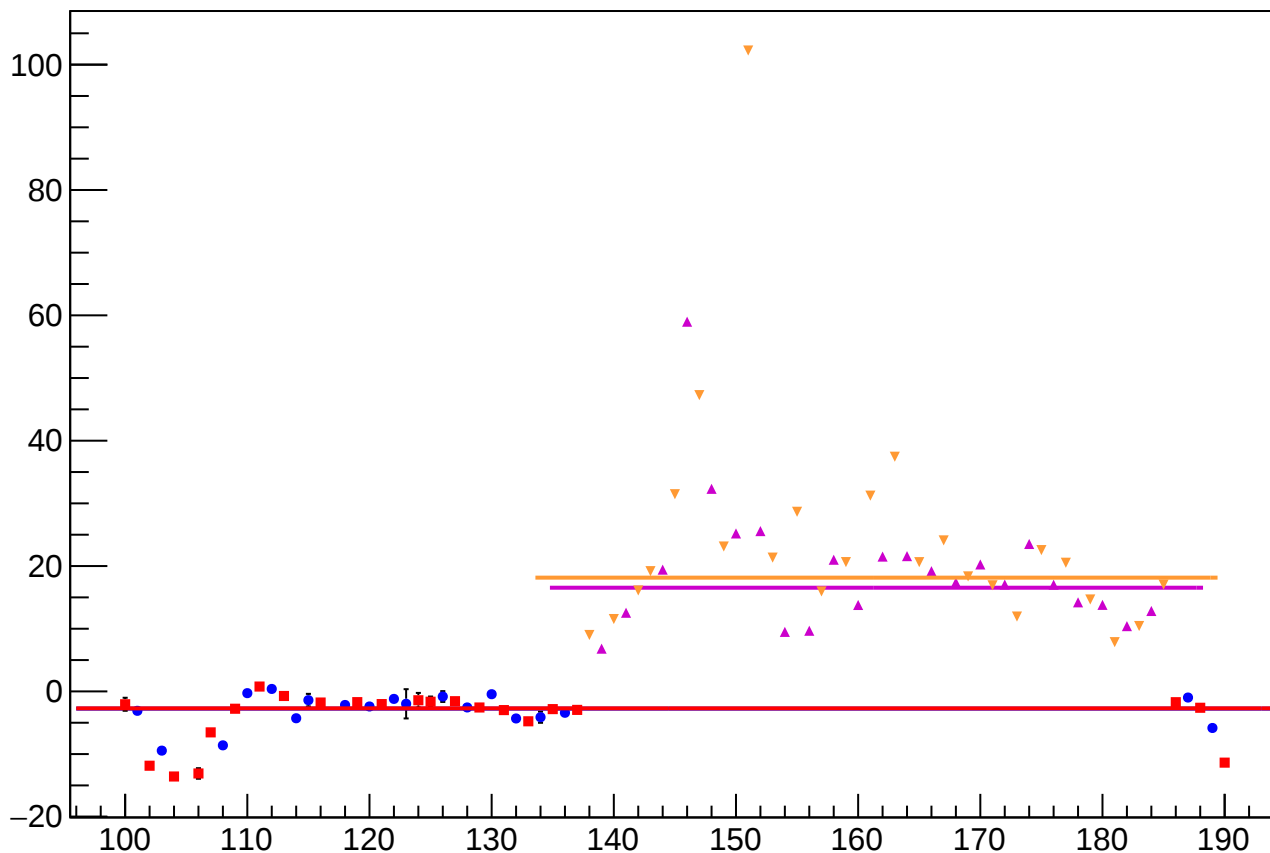
Right: 0.972 ± 0.040 $\chi^2/\text{NDF}: 1939.7/40$

In: 0.583 ± 0.027 $\chi^2/\text{NDF}: 7125.8/41$

Out: 0.591 ± 0.028 $\chi^2/\text{NDF}: 8268.8/46$

All: 0.587 ± 0.019 $\chi^2/\text{NDF}: 15394.6/88$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.750 ± 0.091 $\chi^2/\text{NDF}: 739.5/18$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -2.706 ± 0.060 $\chi^2/\text{NDF}: 1502.8/21$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

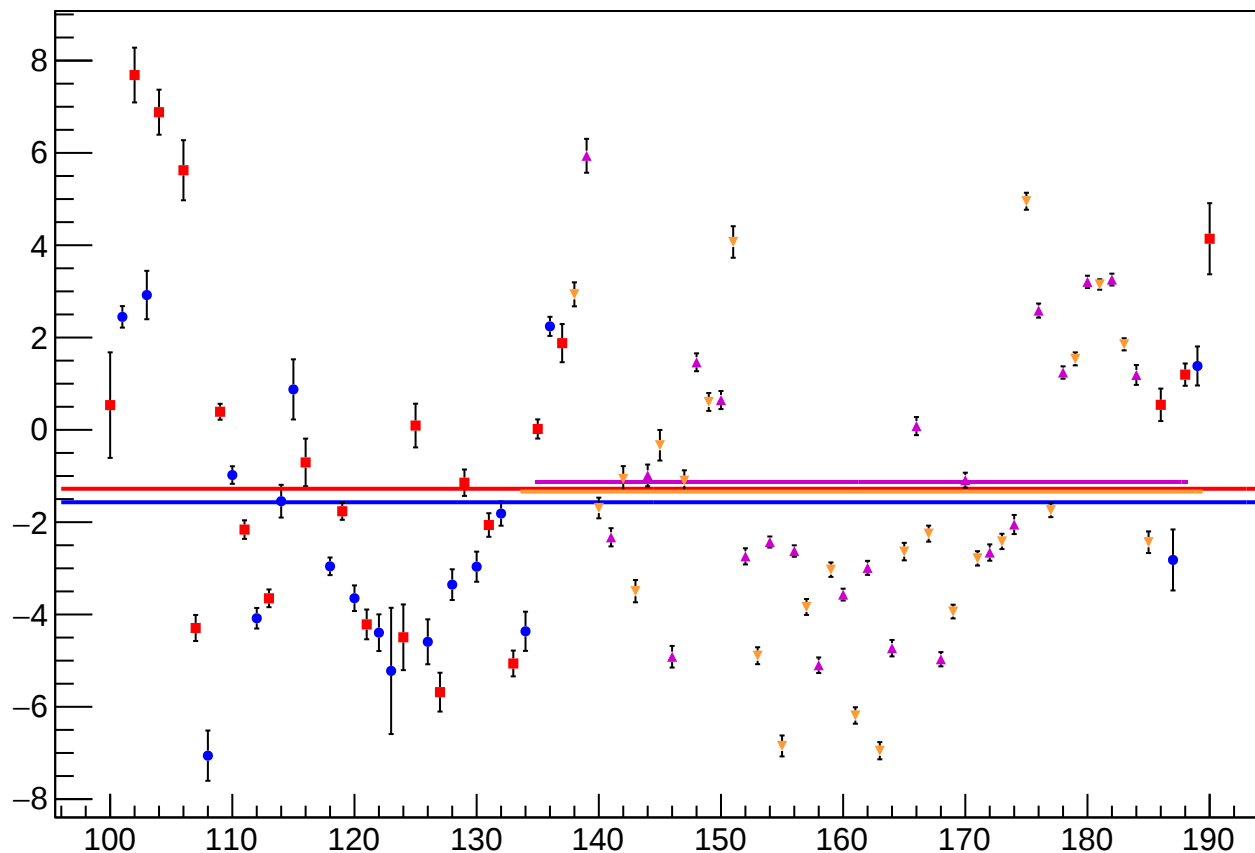
Right: -2.719 ± 0.050 $\chi^2/\text{NDF}: 2242.4/40$

In: 13.689 ± 0.035 $\chi^2/\text{NDF}: 80215.2/41$

Out: 11.938 ± 0.033 $\chi^2/\text{NDF}: 164121.6/46$

All: 12.759 ± 0.024 $\chi^2/\text{NDF}: 245676.4/88$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.569 ± 0.070 χ^2/NDF : 1311.8/18

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -1.276 ± 0.062 χ^2/NDF : 1703.7/21

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

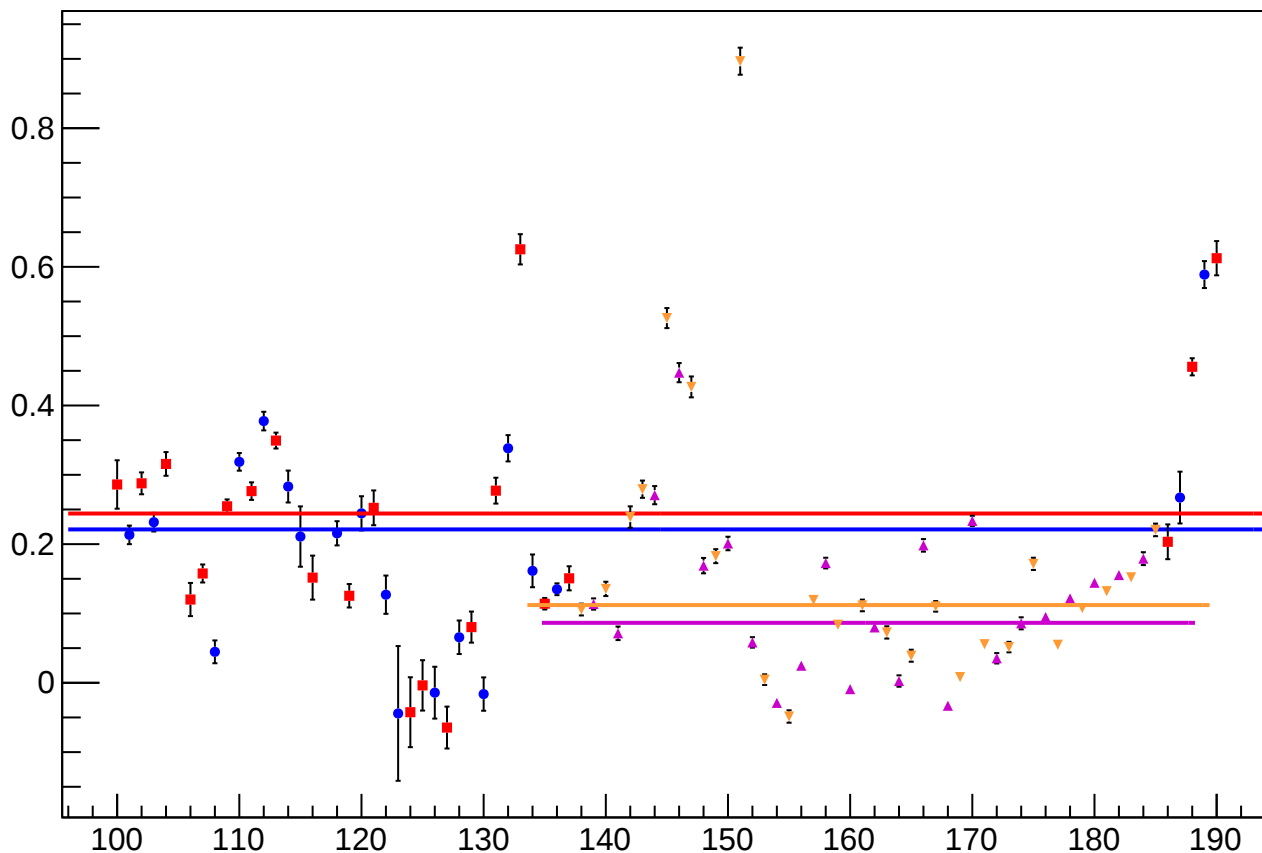
Right: -1.405 ± 0.046 χ^2/NDF : 3025.3/40

In: -1.214 ± 0.031 χ^2/NDF : 8083.9/41

Out: -1.322 ± 0.031 χ^2/NDF : 9647.5/46

All: -1.267 ± 0.022 χ^2/NDF : 17737.5/88

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.221 ± 0.004 $\chi^2/\text{NDF}: 1022.5/18$

Left Out: 0.112 ± 0.002 $\chi^2/\text{NDF}: 4503.9/24$

Right Out: 0.244 ± 0.003 $\chi^2/\text{NDF}: 1584.9/21$

Left In: 0.087 ± 0.002 $\chi^2/\text{NDF}: 3655.4/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8295.3/47$

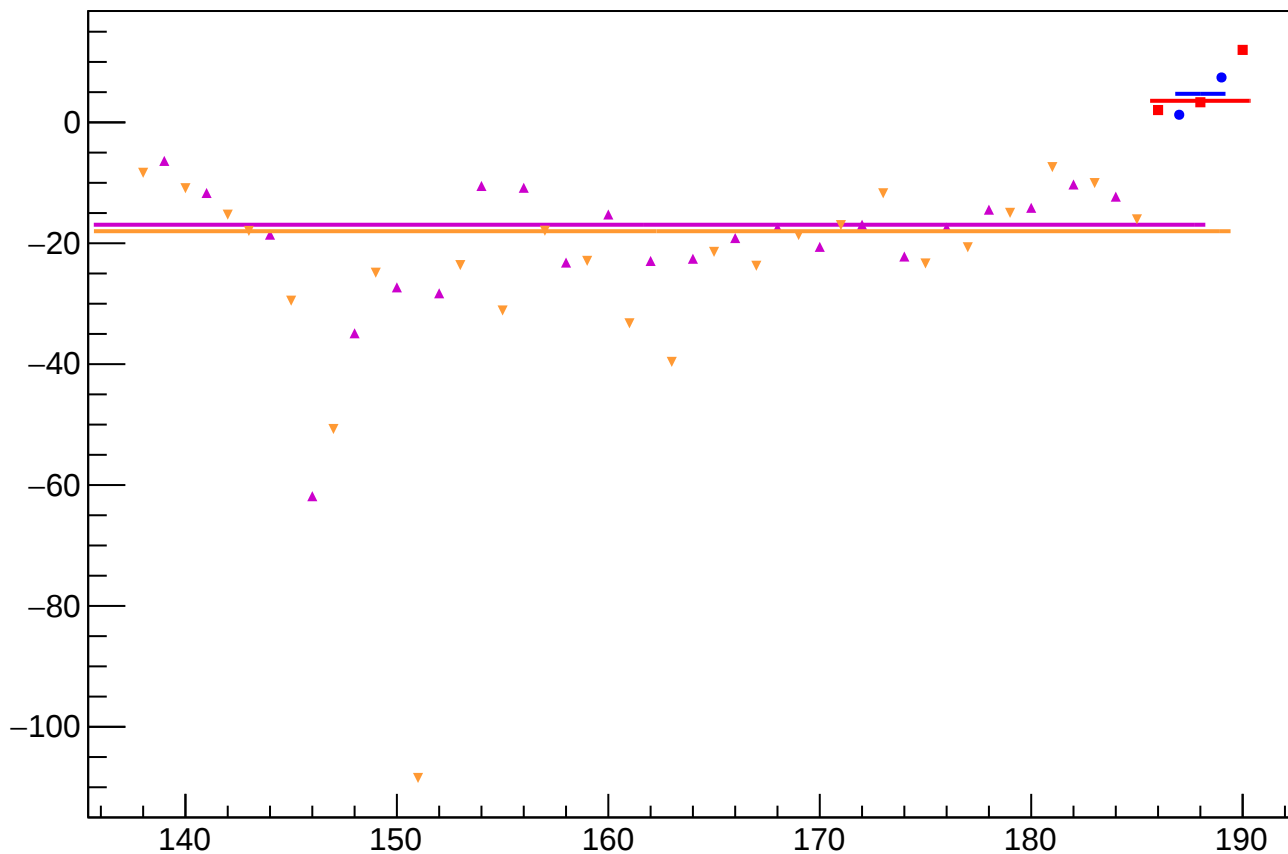
Right: 0.234 ± 0.003 $\chi^2/\text{NDF}: 2625.9/40$

In: 0.103 ± 0.001 $\chi^2/\text{NDF}: 5653.9/41$

Out: 0.135 ± 0.001 $\chi^2/\text{NDF}: 7280.4/46$

All: 0.119 ± 0.001 $\chi^2/\text{NDF}: 13191.5/88$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.727 $\pm$ 0.186 χ^2 /NDF: 271.4/1

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 3.570 $\pm$ 0.092 χ^2 /NDF: 588.9/2

Left In: -16.934 $\pm$ 0.038 χ^2 /NDF: 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2 /NDF: 132843.0/47

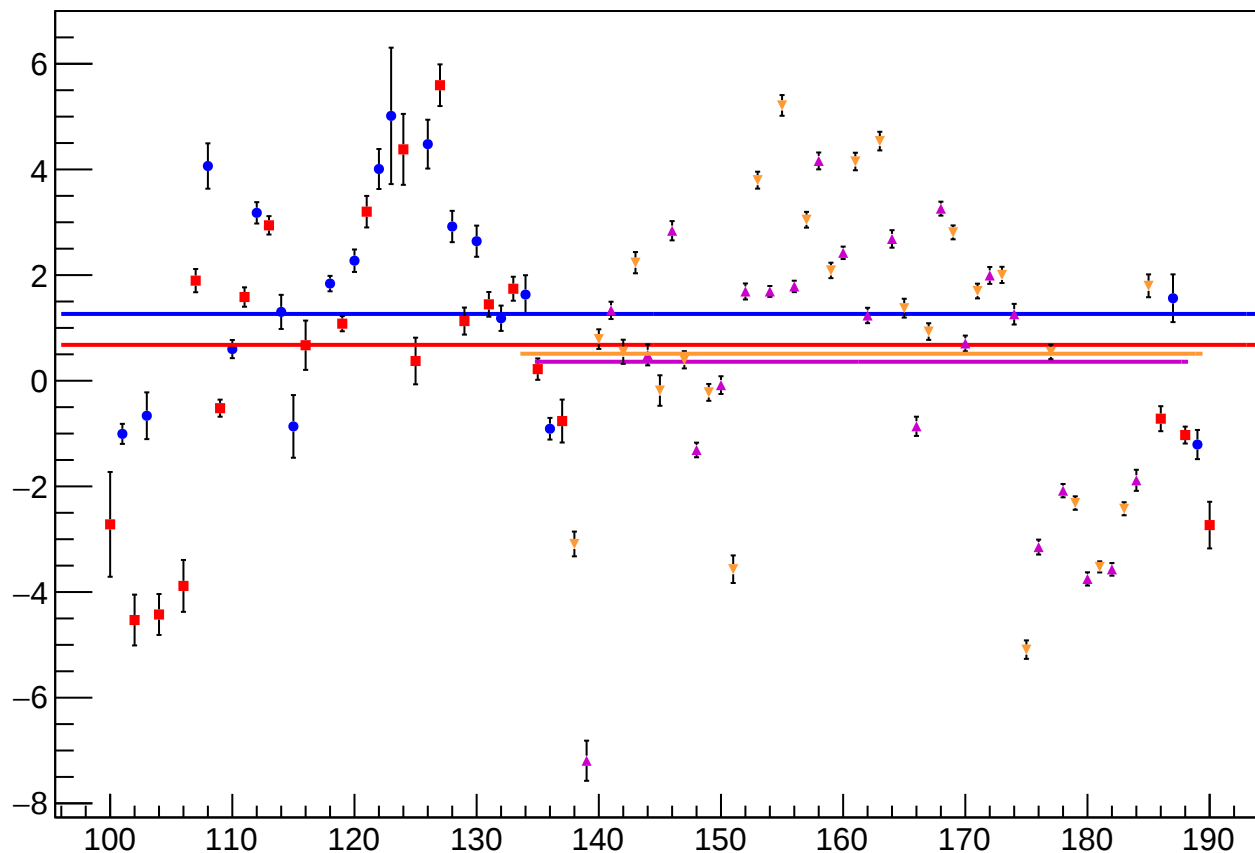
Right: 3.797 $\pm$ 0.082 χ^2 /NDF: 891.4/4

In: -16.069 $\pm$ 0.037 χ^2 /NDF: 57371.3/24

Out: -14.759 $\pm$ 0.036 χ^2 /NDF: 135877.2/27

All: -15.387 $\pm$ 0.026 χ^2 /NDF: 193896.5/52

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.265 ± 0.060 $\chi^2/\text{NDF}: 716.4/18$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.679 ± 0.053 $\chi^2/\text{NDF}: 1195.2/21$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

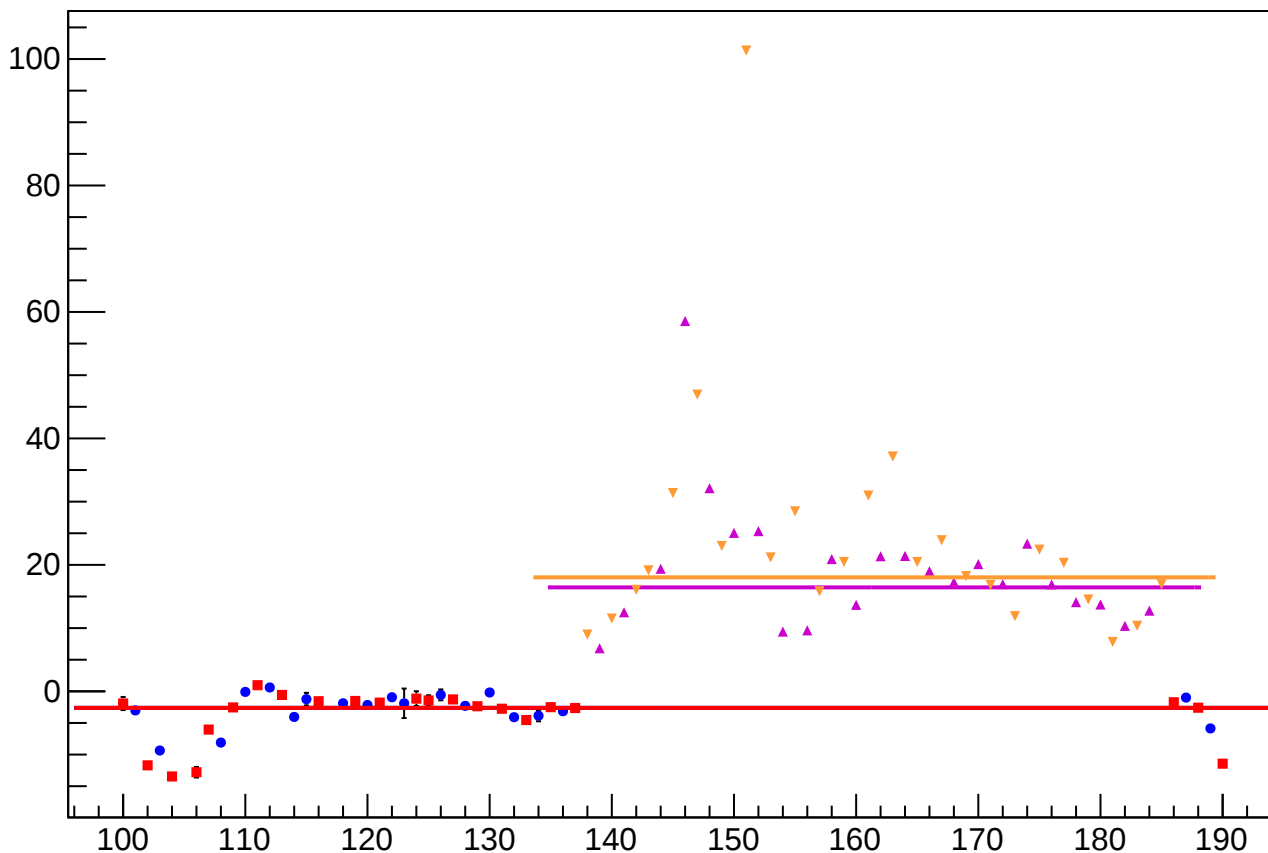
Right: 0.935 ± 0.039 $\chi^2/\text{NDF}: 1965.7/40$

In: 0.547 ± 0.027 $\chi^2/\text{NDF}: 7119.5/41$

Out: 0.557 ± 0.027 $\chi^2/\text{NDF}: 8273.0/46$

All: 0.552 ± 0.019 $\chi^2/\text{NDF}: 15392.6/88$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.610 ± 0.090 $\chi^2/\text{NDF}: 766.3/18$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -2.612 ± 0.059 $\chi^2/\text{NDF}: 1530.6/21$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

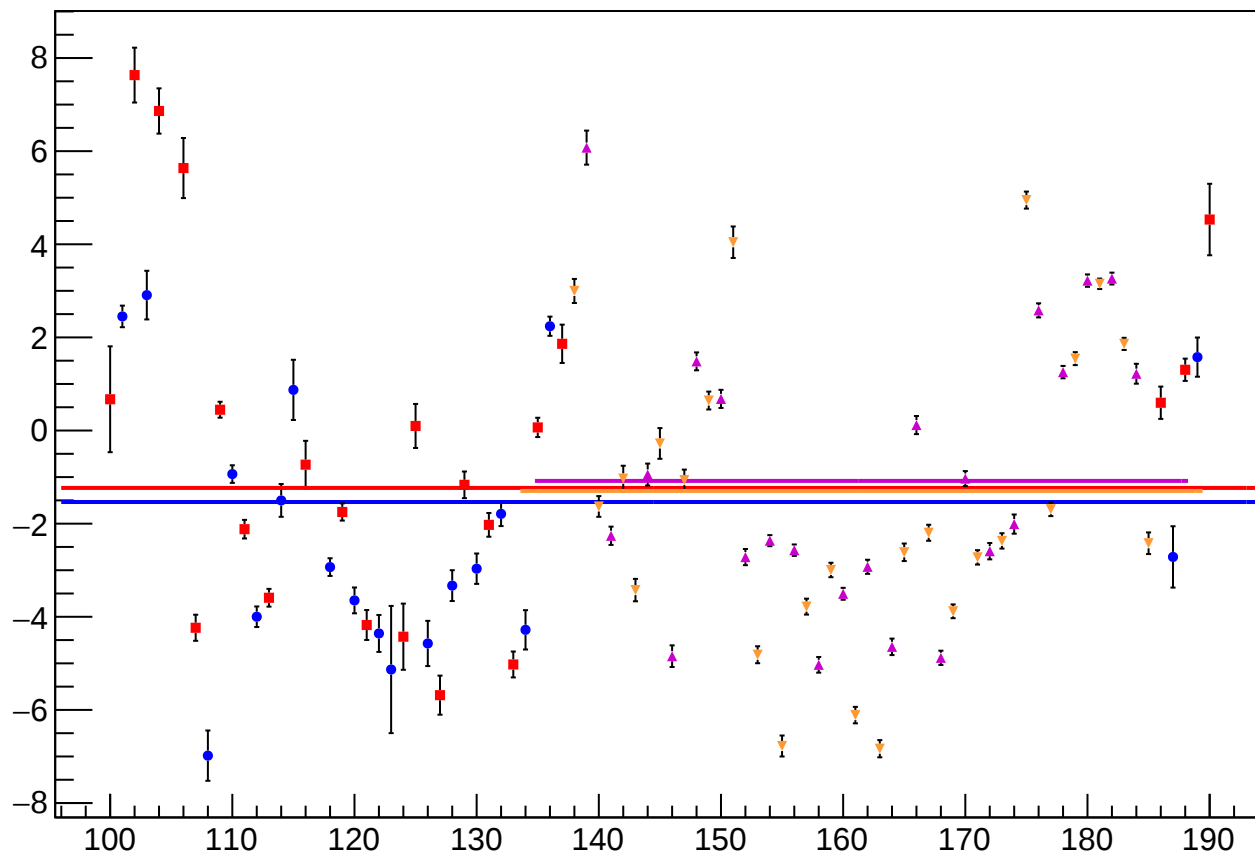
Right: -2.611 ± 0.050 $\chi^2/\text{NDF}: 2296.9/40$

In: 13.633 ± 0.035 $\chi^2/\text{NDF}: 79588.9/41$

Out: 11.860 ± 0.033 $\chi^2/\text{NDF}: 163707.4/46$

All: 12.690 ± 0.024 $\chi^2/\text{NDF}: 244690.8/88$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.535 ± 0.070 χ^2/NDF : 1312.2/18

Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24

Right Out: -1.233 ± 0.062 χ^2/NDF : 1725.3/21

Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47

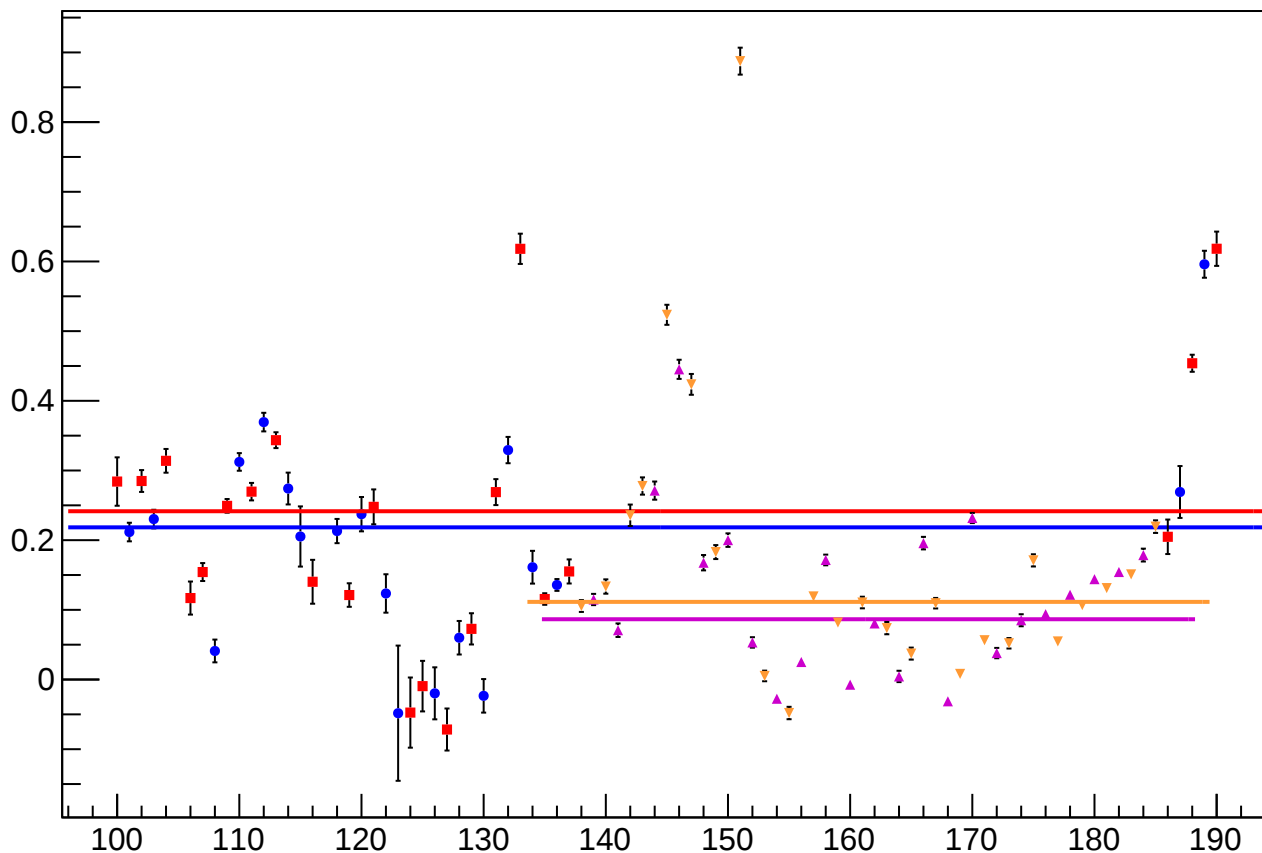
Right: -1.366 ± 0.046 χ^2/NDF : 3048.1/40

In: -1.169 ± 0.030 χ^2/NDF : 8070.6/41

Out: -1.281 ± 0.031 χ^2/NDF : 9651.2/46

All: -1.224 ± 0.022 χ^2/NDF : 17728.5/88

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.218 $\pm$ 0.004 χ^2 /NDF: 1031.8/18

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.242 $\pm$ 0.003 χ^2 /NDF: 1590.0/21

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

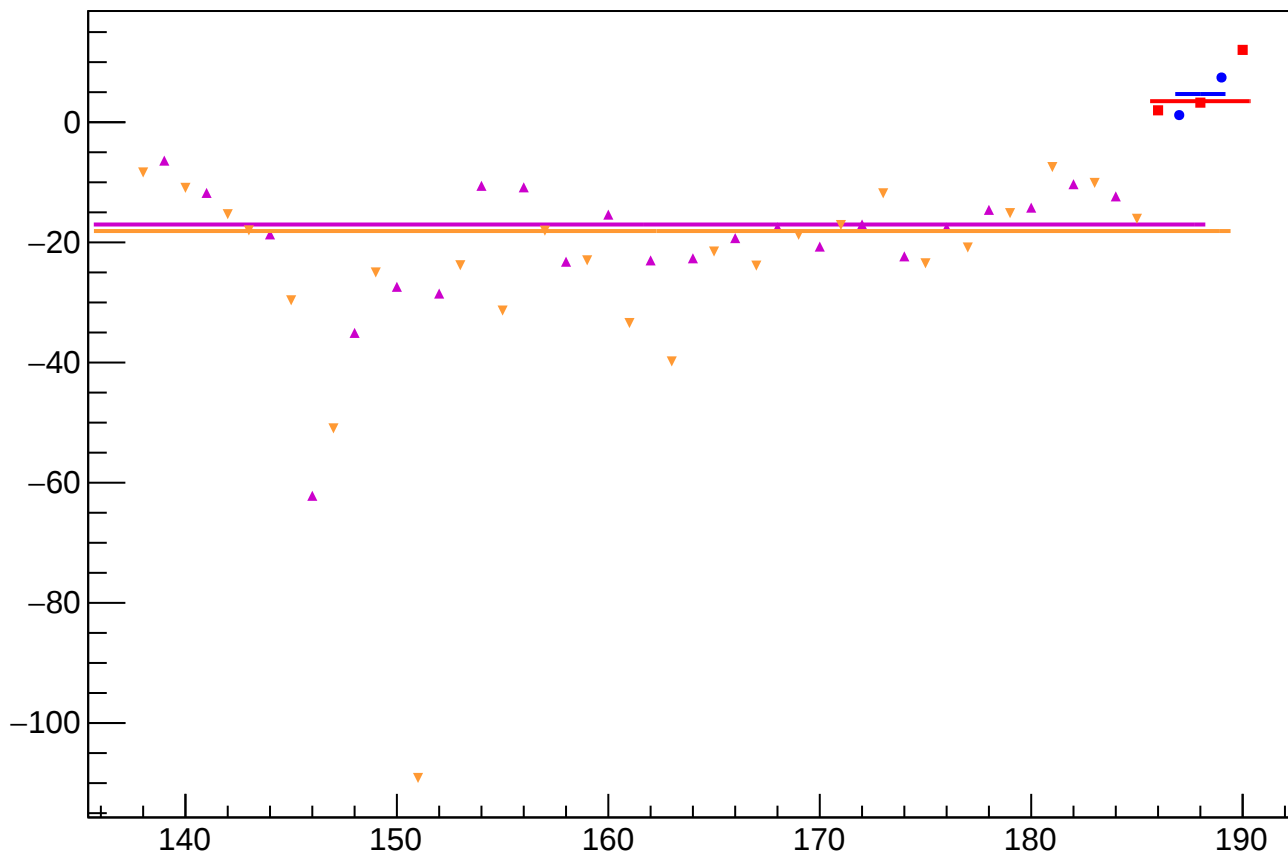
Right: 0.232 $\pm$ 0.003 χ^2 /NDF: 2640.8/40

In: 0.102 $\pm$ 0.001 χ^2 /NDF:5601.8/41

Out: 0.134 $\pm$ 0.001 χ^2 /NDF:7255.9/46

All: 0.118 $\pm$ 0.001 χ^2 /NDF: 13107.0/88

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.695+/-0.187 χ^2/NDF : 276.9/1

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 3.504+/-0.092 χ^2/NDF : 600.0/2

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

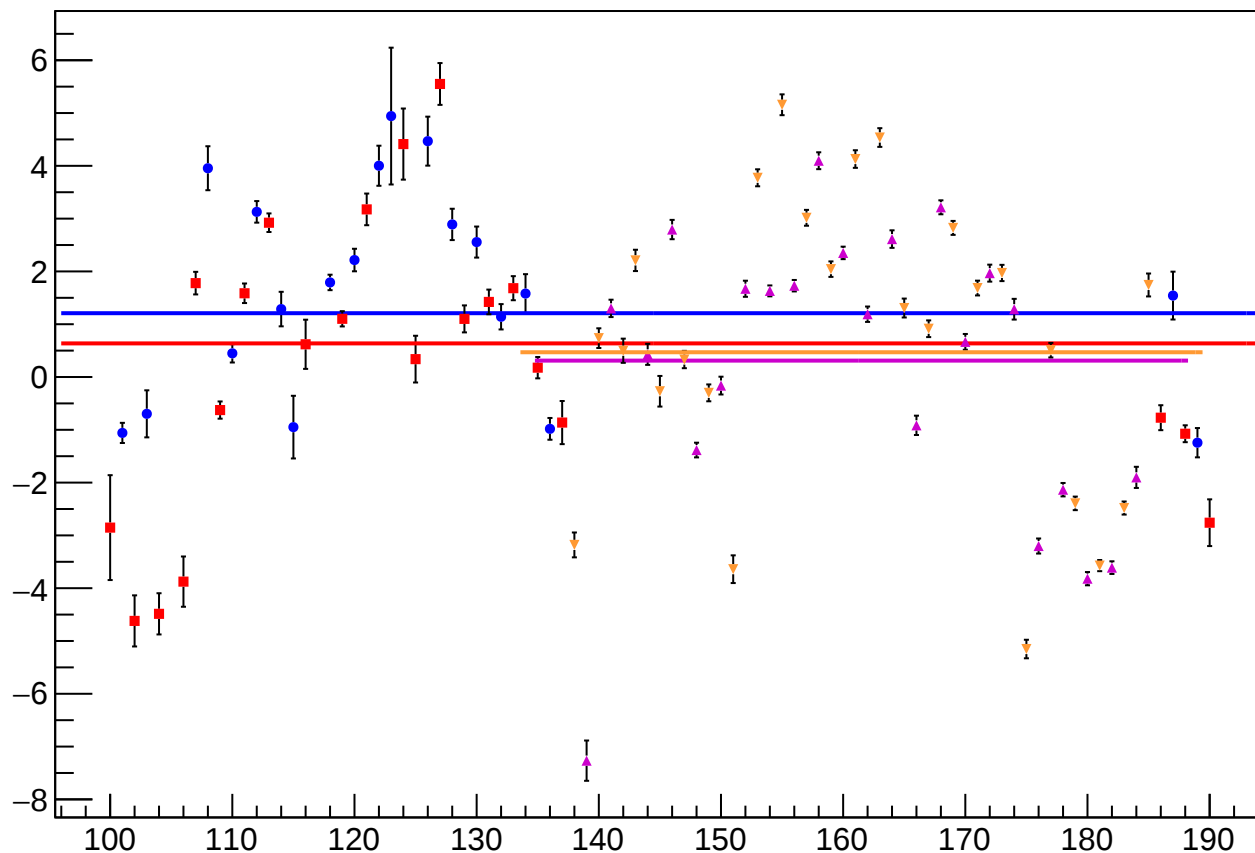
Right: 3.736+/-0.082 χ^2/NDF : 909.7/4

In: -16.157+/-0.037 χ^2/NDF : 57424.4/24

Out: -14.829+/-0.036 χ^2/NDF : 136266.3/27

All: -15.465+/-0.026 χ^2/NDF : 194352.1/52

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.209 $\pm$ 0.060 χ^2/NDF : 719.3/18

Left Out: 0.469 $\pm$ 0.032 χ^2/NDF :7093.0/24

Right Out: 0.637 $\pm$ 0.053 χ^2/NDF : 1206.8/21

Left In: 0.311 $\pm$ 0.031 χ^2/NDF :6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2/NDF : 13288.8/47

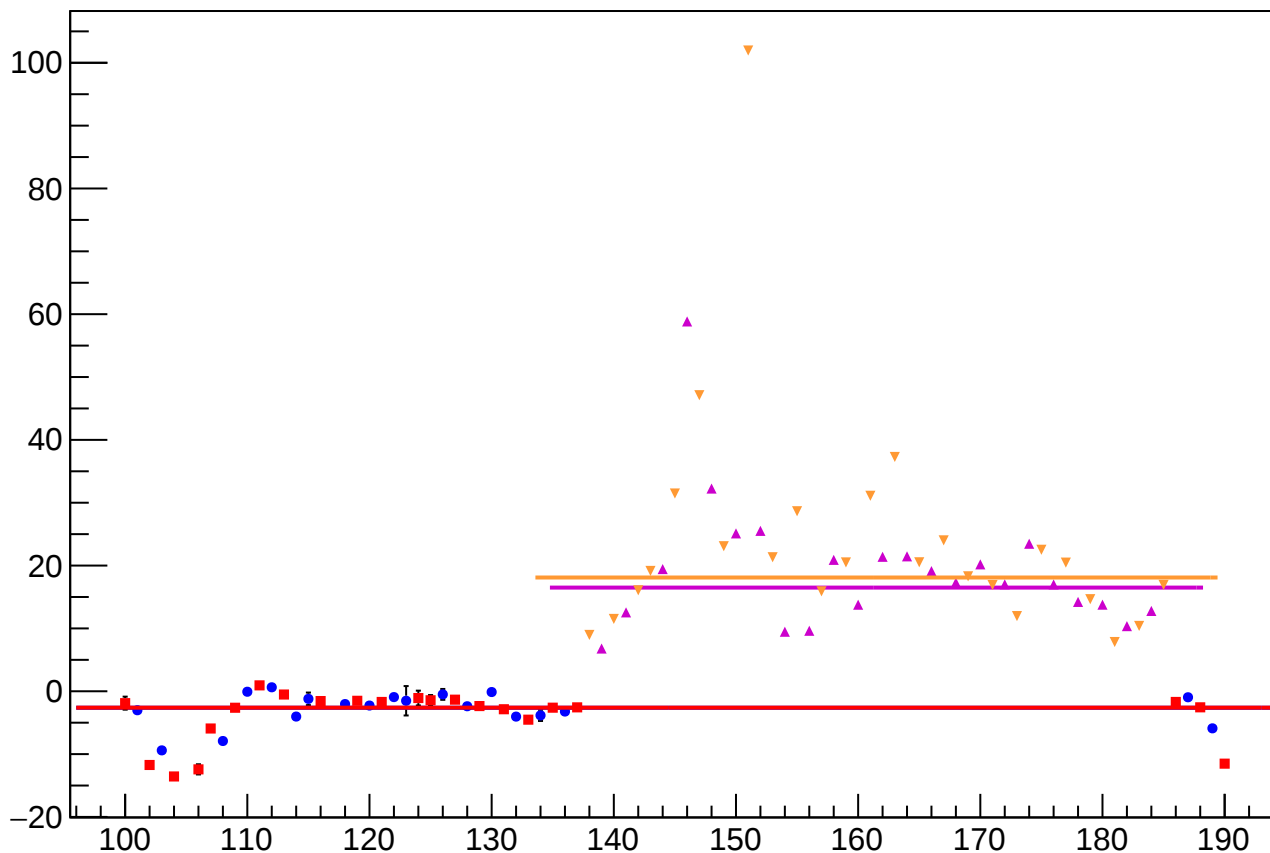
Right: 0.886 $\pm$ 0.040 χ^2/NDF : 1977.3/40

In: 0.496 $\pm$ 0.027 χ^2/NDF :7079.9/41

Out: 0.515 $\pm$ 0.028 χ^2/NDF :8307.2/46

All: 0.505 $\pm$ 0.019 χ^2/NDF : 15387.3/88

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.626 ± 0.091 $\chi^2/\text{NDF}: 767.6/18$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -2.609 ± 0.060 $\chi^2/\text{NDF}: 1532.2/21$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

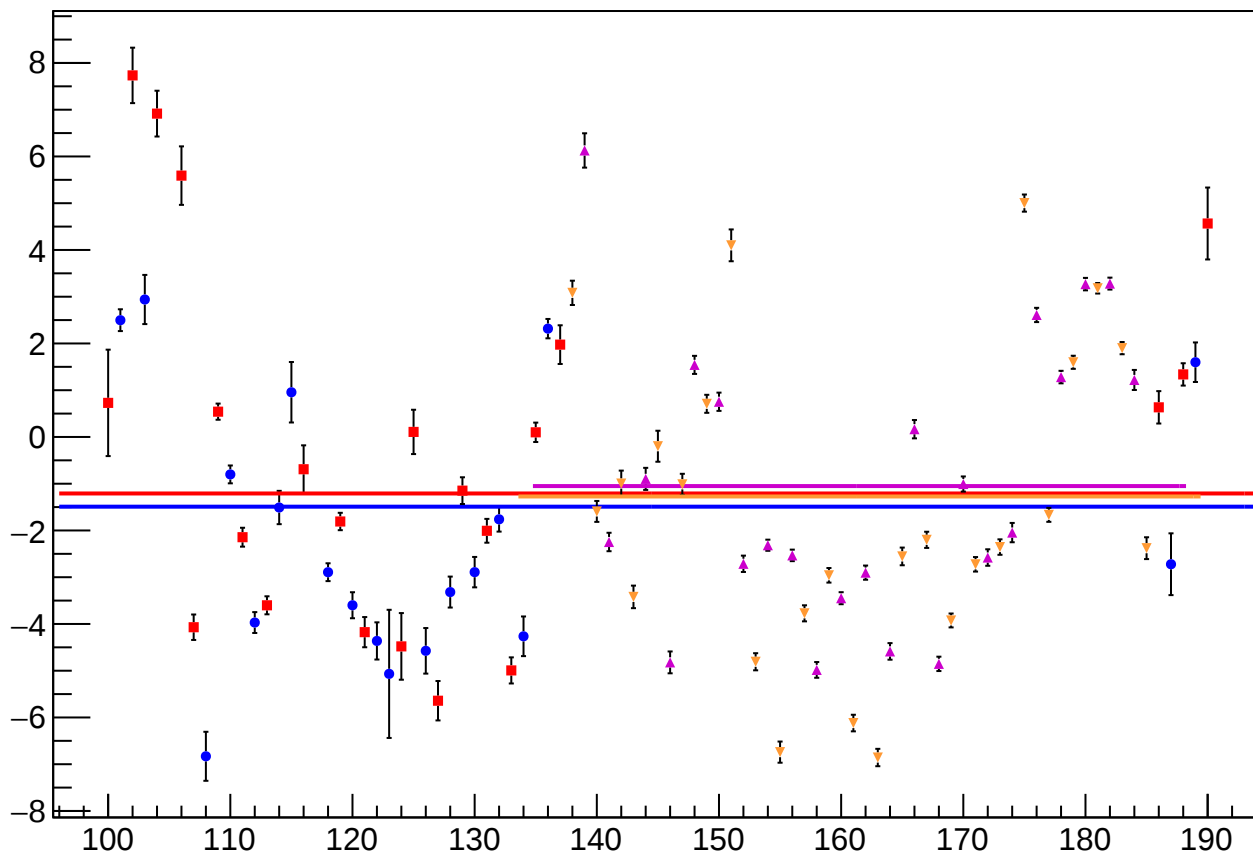
Right: -2.614 ± 0.050 $\chi^2/\text{NDF}: 2299.8/40$

In: 13.681 ± 0.035 $\chi^2/\text{NDF}: 79592.6/41$

Out: 11.882 ± 0.033 $\chi^2/\text{NDF}: 164097.0/46$

All: 12.724 ± 0.024 $\chi^2/\text{NDF}: 245113.8/88$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.491 ± 0.070 $\chi^2/\text{NDF}: 1316.0/18$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -1.209 ± 0.062 $\chi^2/\text{NDF}: 1737.9/21$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

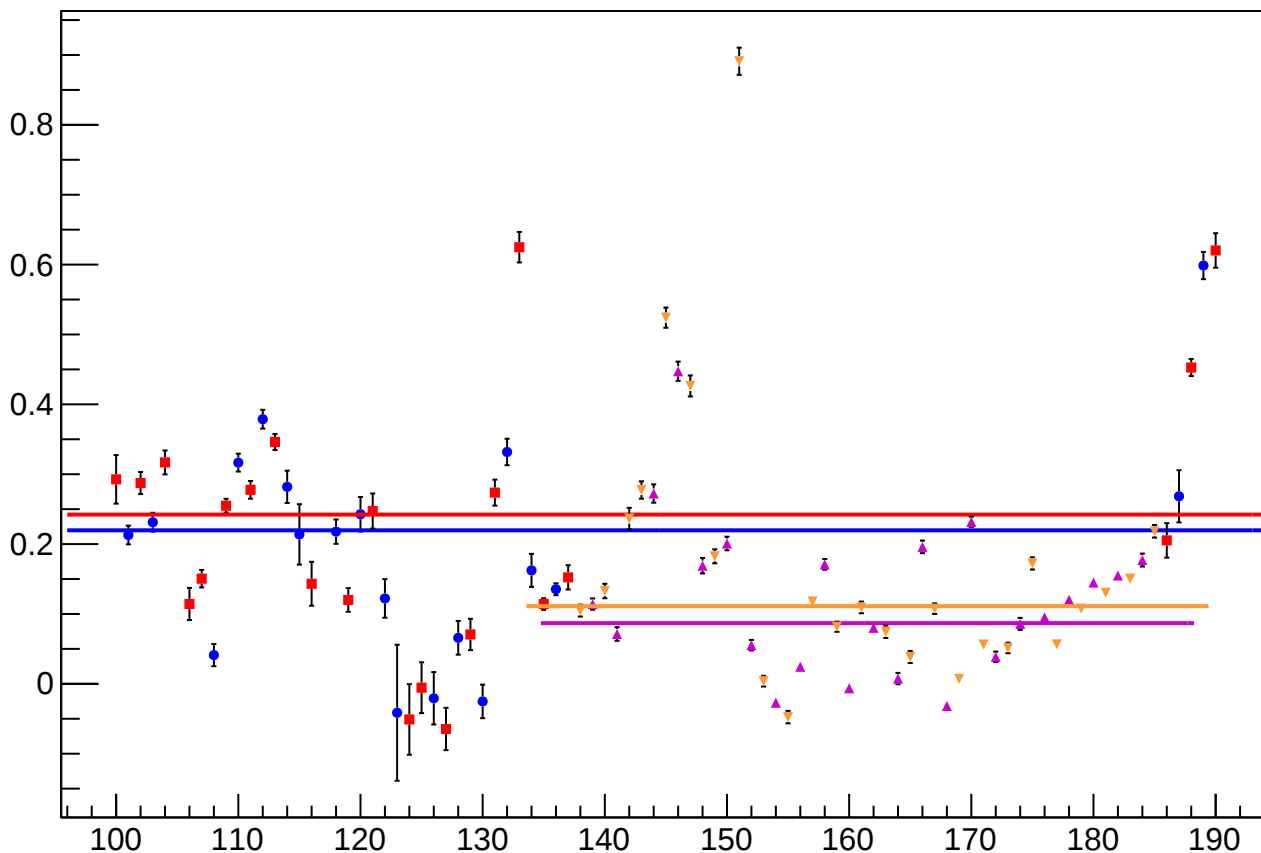
Right: -1.333 ± 0.046 $\chi^2/\text{NDF}: 3063.1/40$

In: -1.135 ± 0.031 $\chi^2/\text{NDF}: 8021.6/41$

Out: -1.257 ± 0.031 $\chi^2/\text{NDF}: 9690.4/46$

All: -1.195 ± 0.022 $\chi^2/\text{NDF}: 17719.7/88$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.220 ± 0.004 $\chi^2/\text{NDF}: 1059.0/18$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.242 ± 0.003 $\chi^2/\text{NDF}: 1617.6/21$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

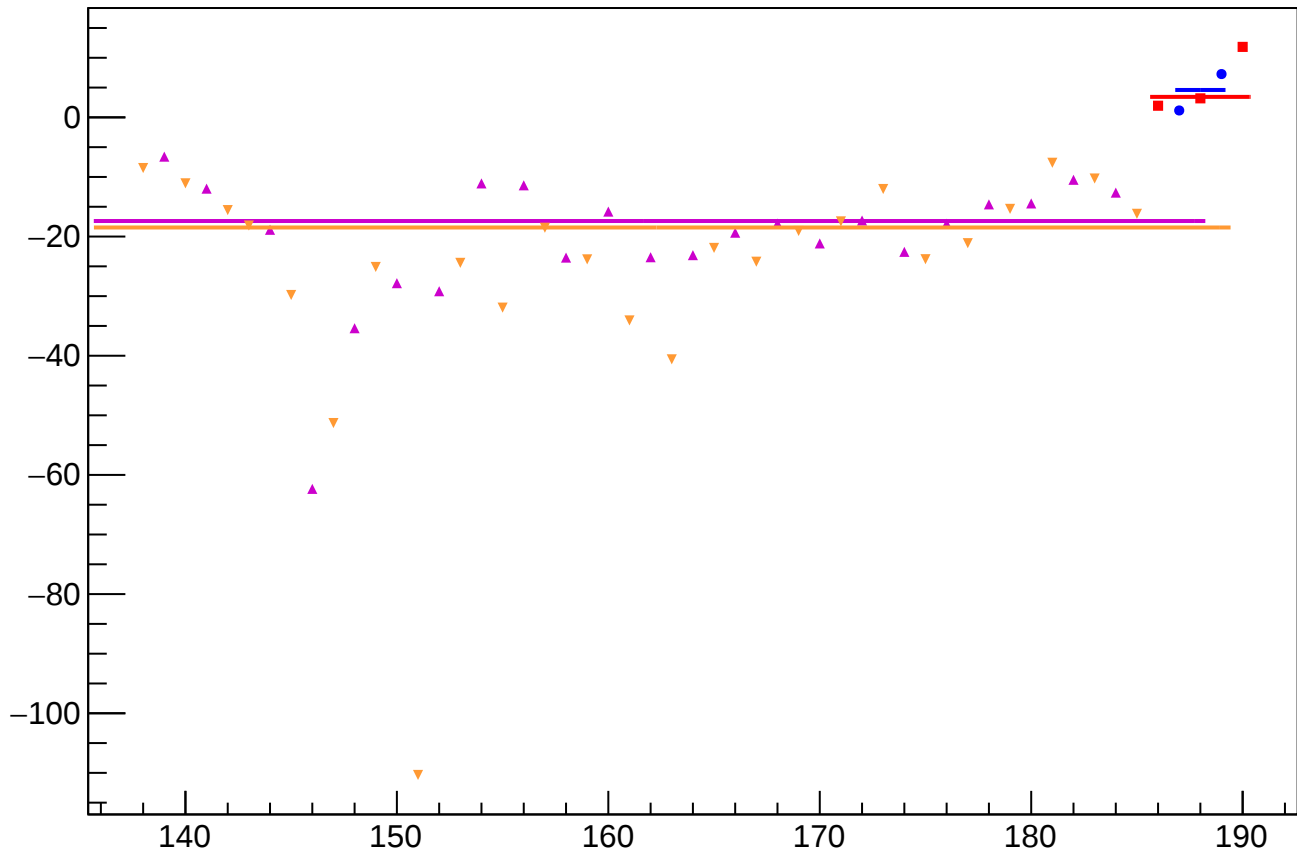
Right: 0.233 ± 0.003 $\chi^2/\text{NDF}: 2694.6/40$

In: 0.103 ± 0.001 $\chi^2/\text{NDF}: 5609.4/41$

Out: 0.134 ± 0.001 $\chi^2/\text{NDF}: 7273.1/46$

All: 0.118 ± 0.001 $\chi^2/\text{NDF}: 13124.2/88$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.598+/-0.187 χ^2/NDF : 261.9/1

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 3.439+/-0.092 χ^2/NDF : 574.9/2

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

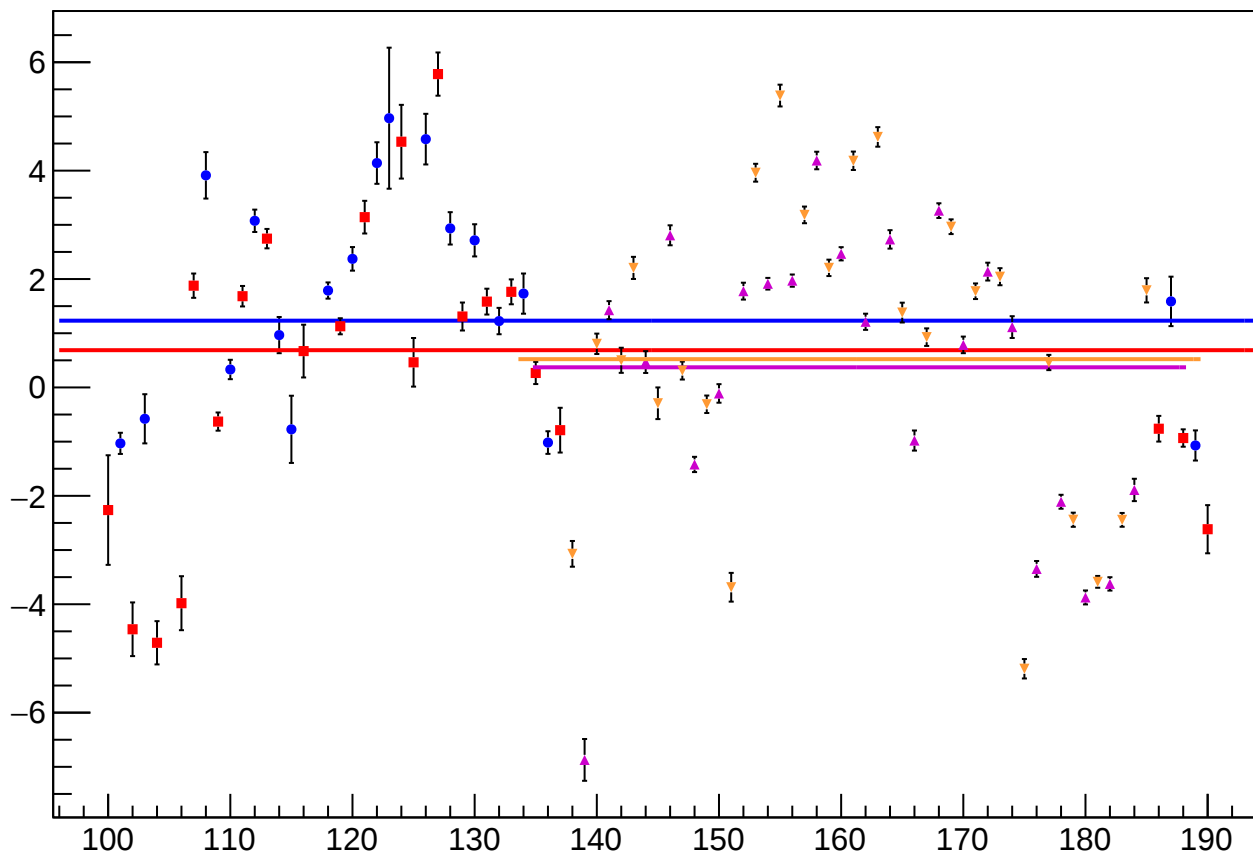
Right: 3.664+/-0.083 χ^2/NDF : 867.7/4

In: -16.481+/-0.038 χ^2/NDF : 56661.0/24

Out: -15.037+/-0.036 χ^2/NDF : 136330.8/27

All: -15.726+/-0.026 χ^2/NDF : 193740.6/52

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.232 ± 0.061 χ^2/NDF : 708.6/18

Left Out: 0.522 ± 0.033 χ^2/NDF : 7055.1/24

Right Out: 0.687 ± 0.054 χ^2/NDF : 1161.1/21

Left In: 0.371 ± 0.031 χ^2/NDF : 6217.4/22

Left: 0.443 ± 0.023 χ^2/NDF : 13283.4/47

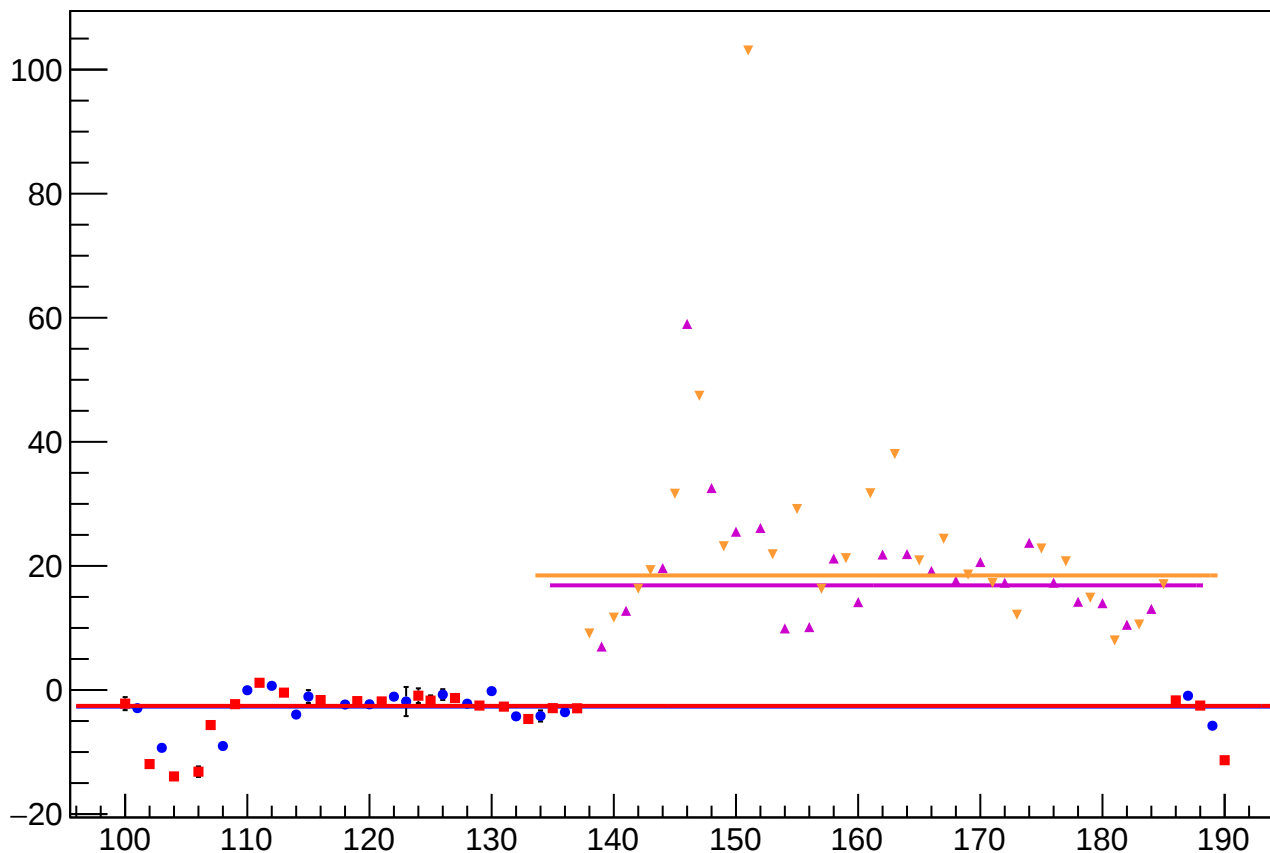
Right: 0.925 ± 0.040 χ^2/NDF : 1914.6/40

In: 0.551 ± 0.028 χ^2/NDF : 7083.1/41

Out: 0.567 ± 0.028 χ^2/NDF : 8223.1/46

All: 0.559 ± 0.020 χ^2/NDF : 15306.4/88

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.669 ± 0.092 χ^2/NDF : 763.4/18

Left Out: 18.467 ± 0.040 χ^2/NDF : 77226.7/24

Right Out: -2.560 ± 0.060 χ^2/NDF : 1526.5/21

Left In: 16.867 ± 0.039 χ^2/NDF : 39779.0/22

Left: 17.640 ± 0.028 χ^2/NDF : 117837.8/47

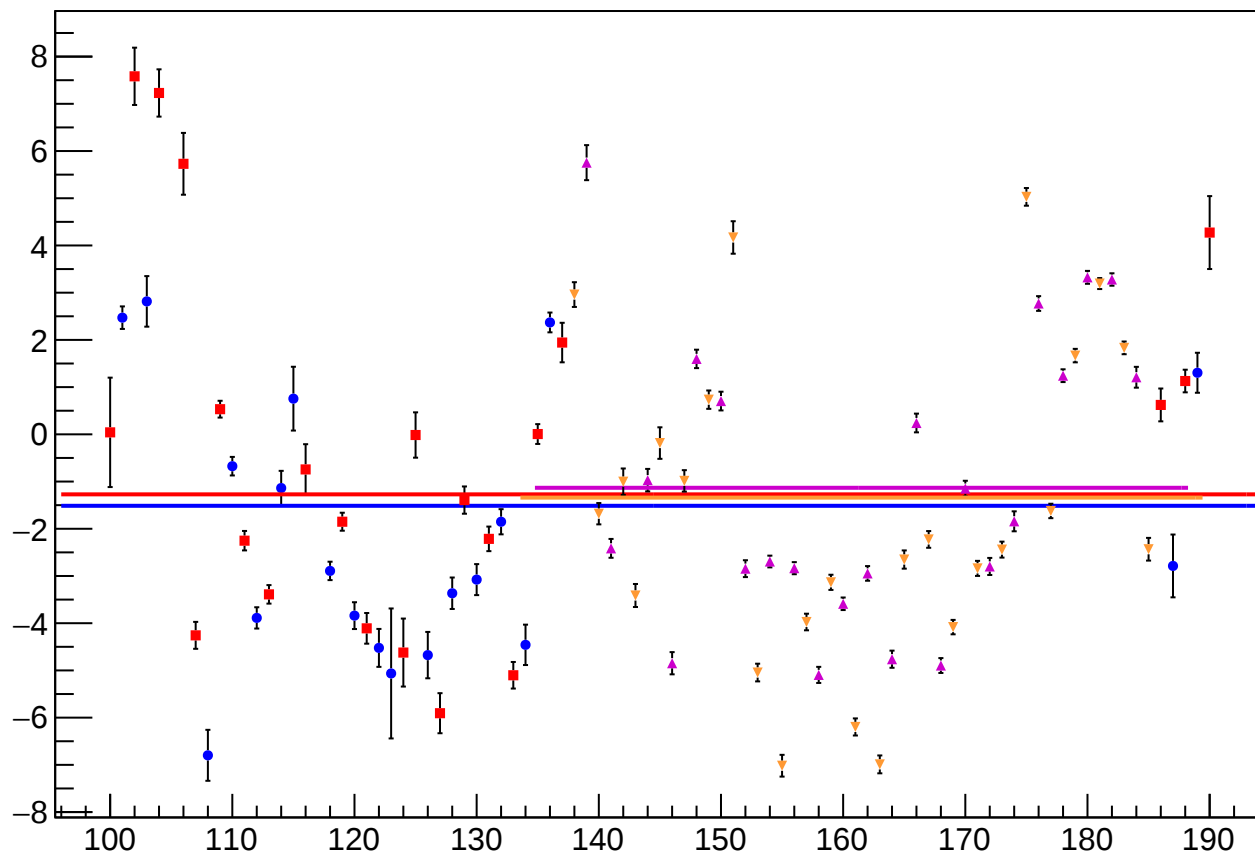
Right: -2.593 ± 0.050 χ^2/NDF : 2290.9/40

In: 13.936 ± 0.036 χ^2/NDF : 79031.3/41

Out: 12.035 ± 0.033 χ^2/NDF : 163771.4/46

All: 12.922 ± 0.024 χ^2/NDF : 244329.1/88

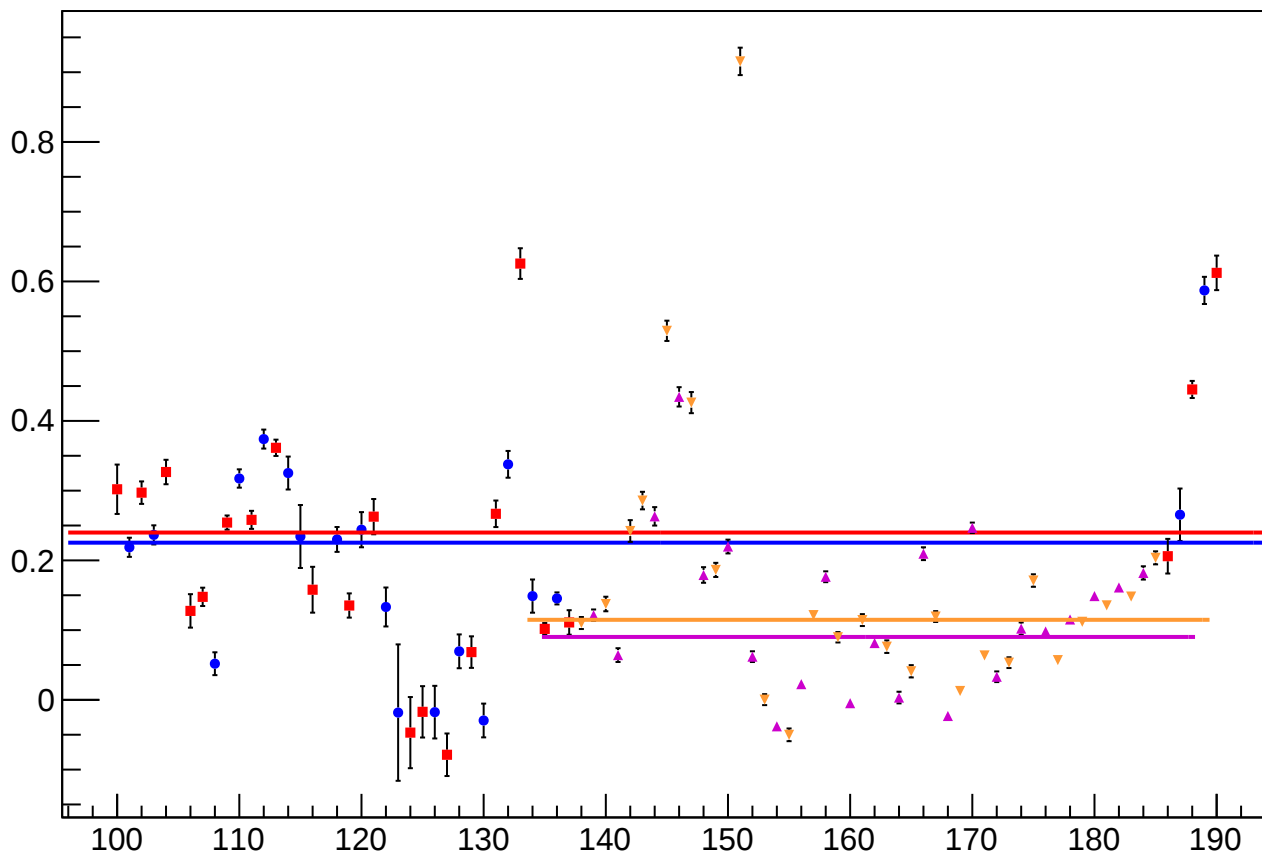
reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.513 ± 0.071 $\chi^2/\text{NDF}: 1296.5/18$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -1.271 ± 0.063 $\chi^2/\text{NDF}: 1679.0/21$
 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: -1.378 ± 0.047 $\chi^2/\text{NDF}: 2982.0/40$
 In: -1.206 ± 0.031 $\chi^2/\text{NDF}: 8028.2/41$
 Out: -1.323 ± 0.032 $\chi^2/\text{NDF}: 9587.3/46$
 All: -1.264 ± 0.022 $\chi^2/\text{NDF}: 17622.4/88$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.225 $\pm$ 0.004 χ^2 /NDF: 987.0/18

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.240 $\pm$ 0.004 χ^2 /NDF: 1657.5/21

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

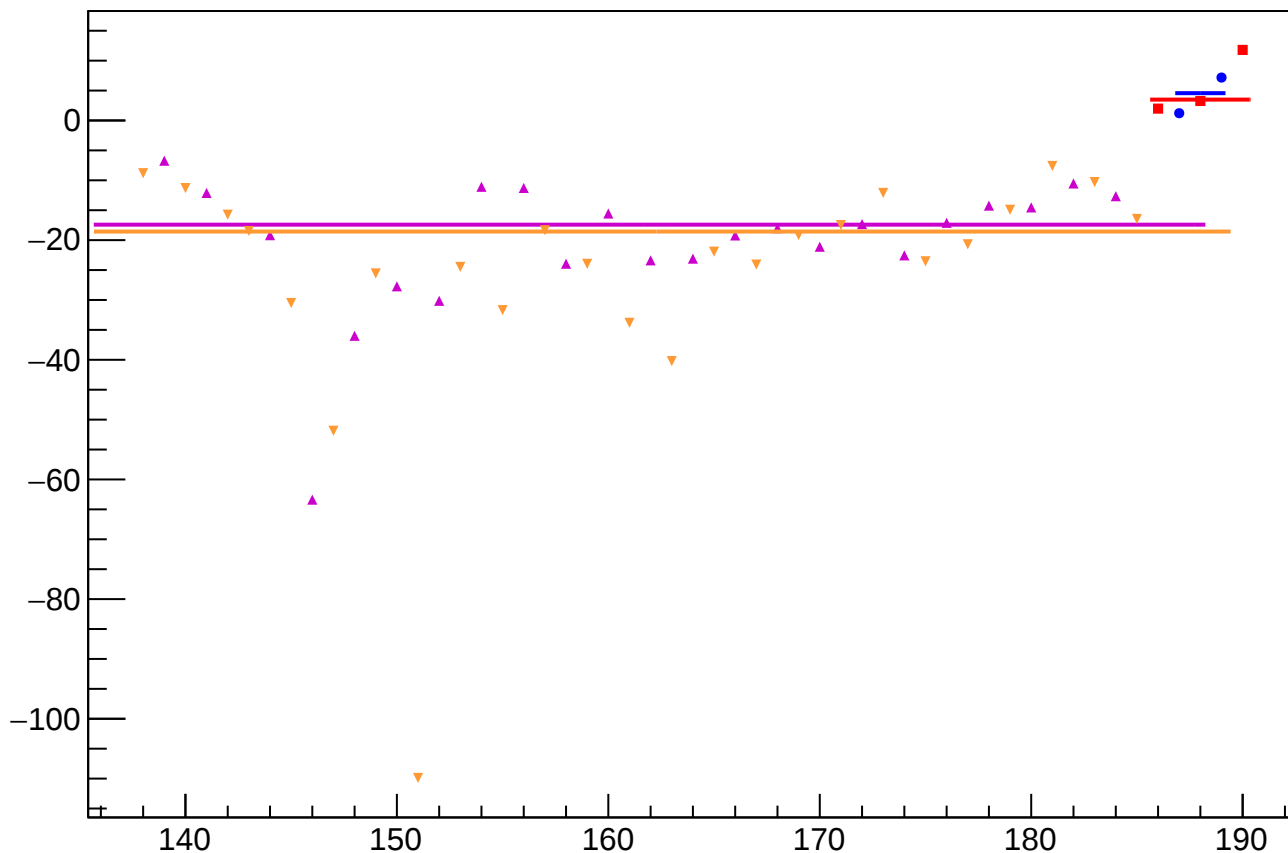
Right: 0.234 $\pm$ 0.003 χ^2 /NDF: 2651.8/40

In: 0.107 $\pm$ 0.001 χ^2 /NDF:5614.2/41

Out: 0.137 $\pm$ 0.001 χ^2 /NDF:7127.1/46

All: 0.121 $\pm$ 0.001 χ^2 /NDF: 12954.0/88

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



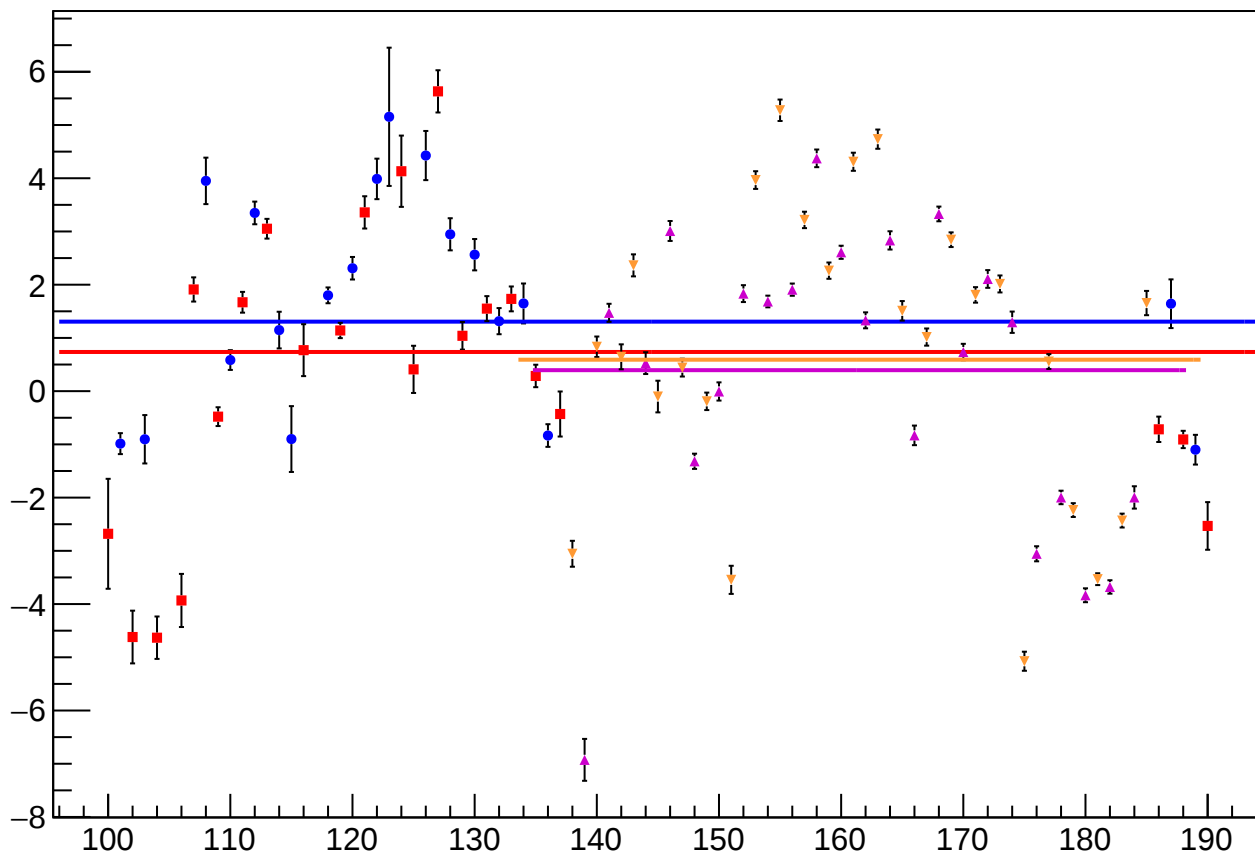
Right In: 4.566 $\pm$ 0.188 χ^2 /NDF: 247.2/1
 Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24
 Right Out: 3.490 $\pm$ 0.093 χ^2 /NDF: 558.3/2
 Left In: -17.414 $\pm$ 0.039 χ^2 /NDF: 43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47
 Right: 3.702 $\pm$ 0.083 χ^2 /NDF: 831.8/4

In: -16.494 $\pm$ 0.038 χ^2 /NDF: 56851.4/24
 Out: -15.112 $\pm$ 0.037 χ^2 /NDF: 134332.5/27

All: -15.773 $\pm$ 0.027 χ^2 /NDF: 191857.0/52

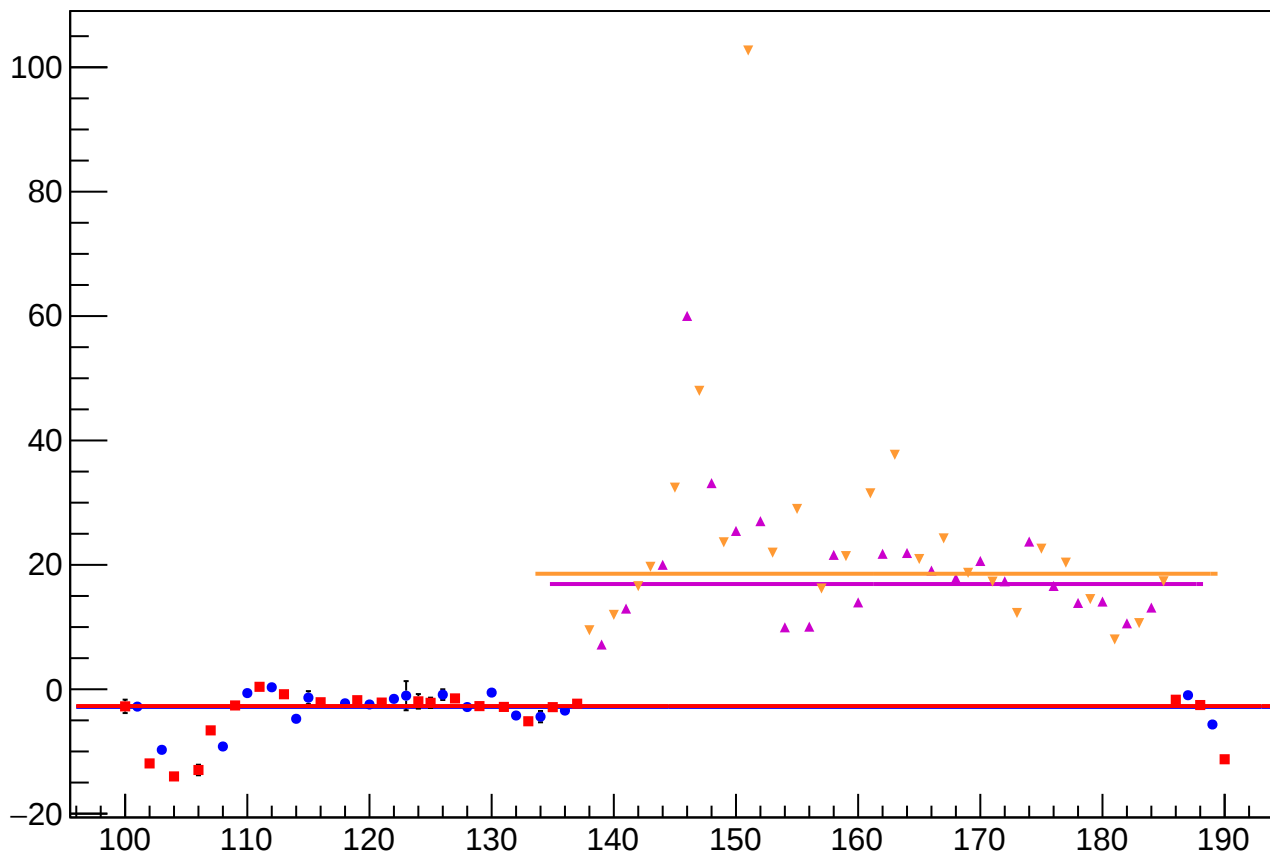
reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.306 ± 0.062 $\chi^2/\text{NDF}: 678.1/18$
 Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$
 Right Out: 0.736 ± 0.054 $\chi^2/\text{NDF}: 1147.4/21$
 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: 0.985 ± 0.041 $\chi^2/\text{NDF}: 1873.6/40$
 In: 0.585 ± 0.028 $\chi^2/\text{NDF}: 6911.2/41$
 Out: 0.630 ± 0.028 $\chi^2/\text{NDF}: 7949.1/46$
 All: 0.607 ± 0.020 $\chi^2/\text{NDF}: 14861.6/88$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.833 ± 0.093 χ^2/NDF : 682.5/18

Left Out: 18.573 ± 0.040 χ^2/NDF : 76029.9/24

Right Out: -2.697 ± 0.061 χ^2/NDF : 1422.3/21

Left In: 16.919 ± 0.039 χ^2/NDF : 40154.5/22

Left: 17.718 ± 0.028 χ^2/NDF : 117057.3/47

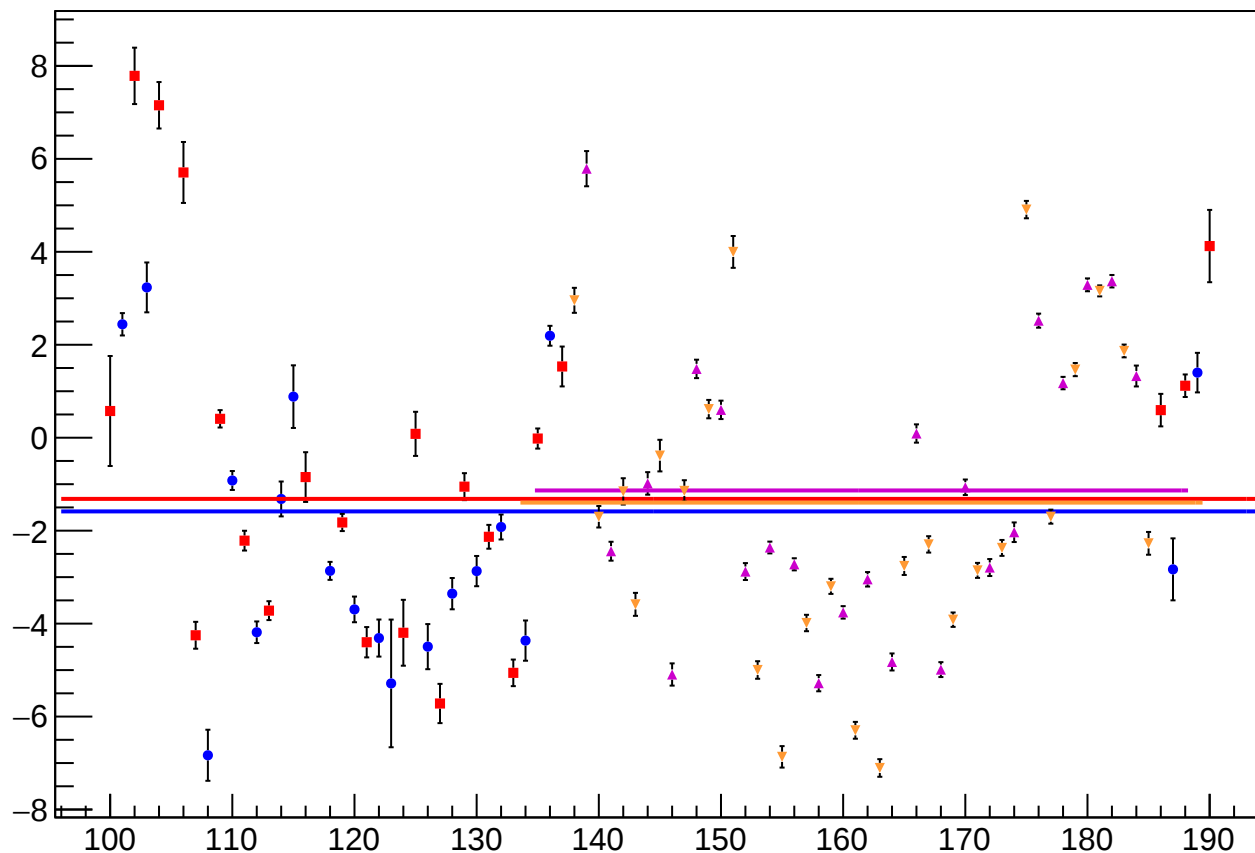
Right: -2.738 ± 0.051 χ^2/NDF : 2106.4/40

In: 13.968 ± 0.036 χ^2/NDF : 79346.2/41

Out: 12.120 ± 0.034 χ^2/NDF : 162134.6/46

All: 12.983 ± 0.025 χ^2/NDF : 242893.9/88

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.586 ± 0.072 $\chi^2/\text{NDF}: 1244.7/18$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -1.316 ± 0.064 $\chi^2/\text{NDF}: 1648.2/21$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

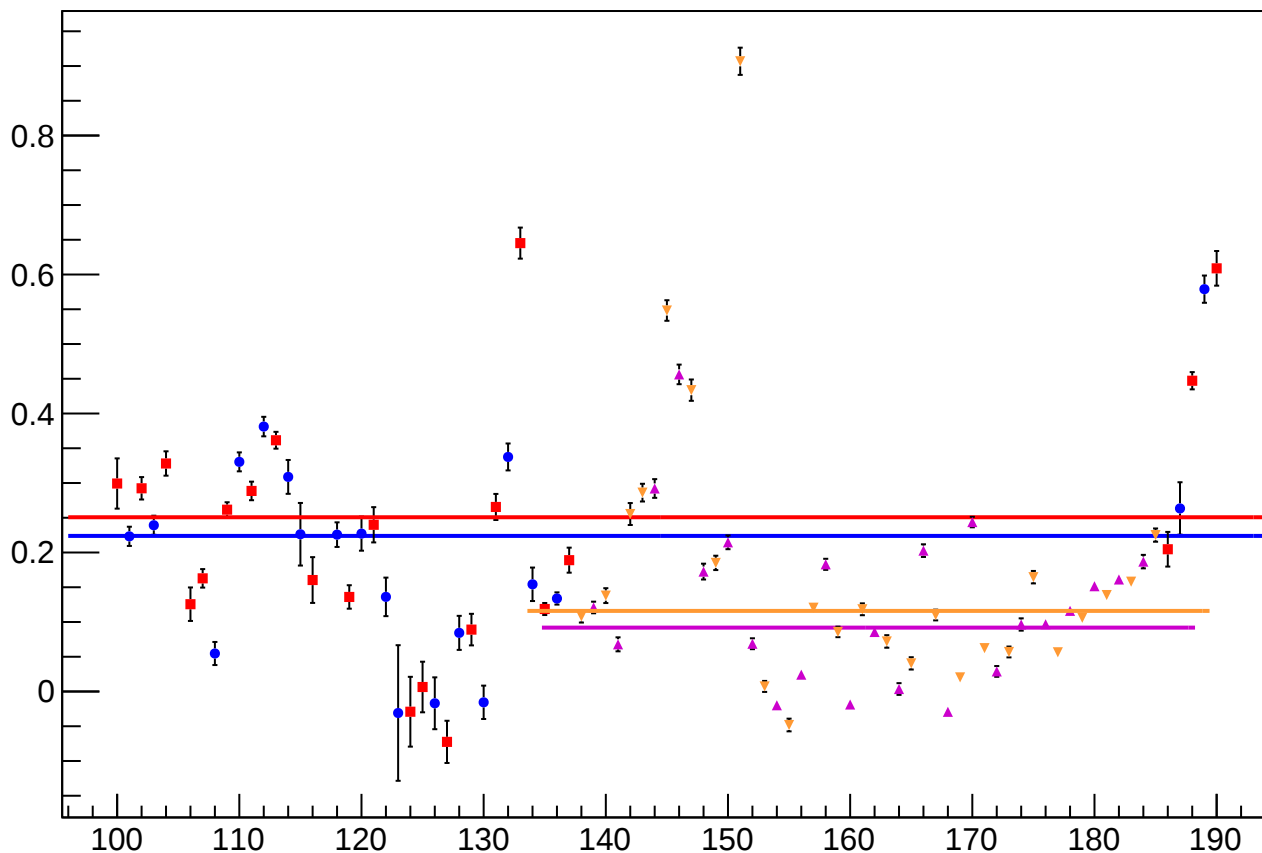
Right: -1.436 ± 0.048 $\chi^2/\text{NDF}: 2900.7/40$

In: -1.222 ± 0.032 $\chi^2/\text{NDF}: 7874.2/41$

Out: -1.376 ± 0.032 $\chi^2/\text{NDF}: 9300.9/46$

All: -1.298 ± 0.022 $\chi^2/\text{NDF}: 17186.9/88$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.224 $\pm$ 0.004 χ^2/NDF : 970.8/18

Left Out: 0.116 $\pm$ 0.002 χ^2/NDF : 4463.0/24

Right Out: 0.251 $\pm$ 0.004 χ^2/NDF : 1501.7/21

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

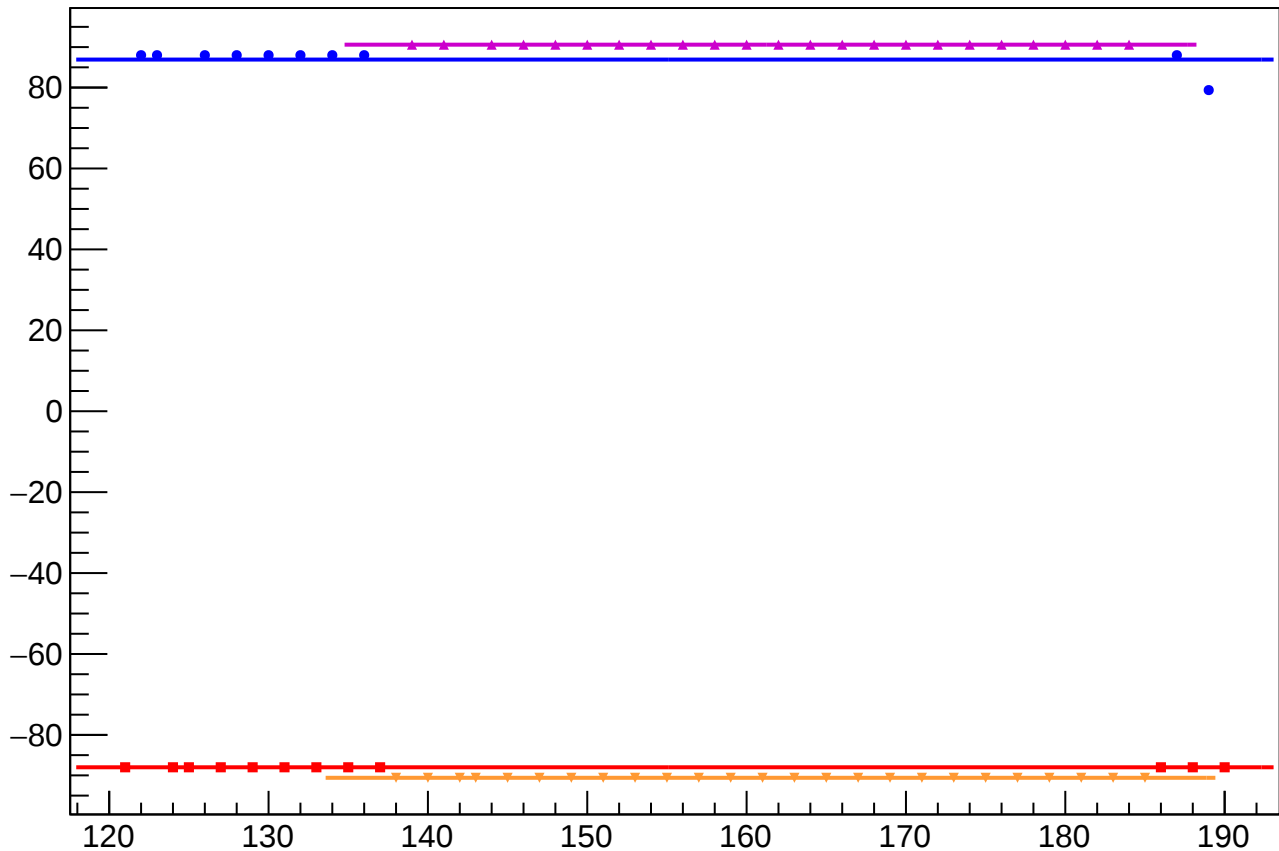
Right: 0.239 $\pm$ 0.003 χ^2/NDF : 2496.3/40

In: 0.108 $\pm$ 0.001 χ^2/NDF : 5485.9/41

Out: 0.139 $\pm$ 0.001 χ^2/NDF : 7127.3/46

All: 0.123 $\pm$ 0.001 χ^2/NDF : 12839.9/88

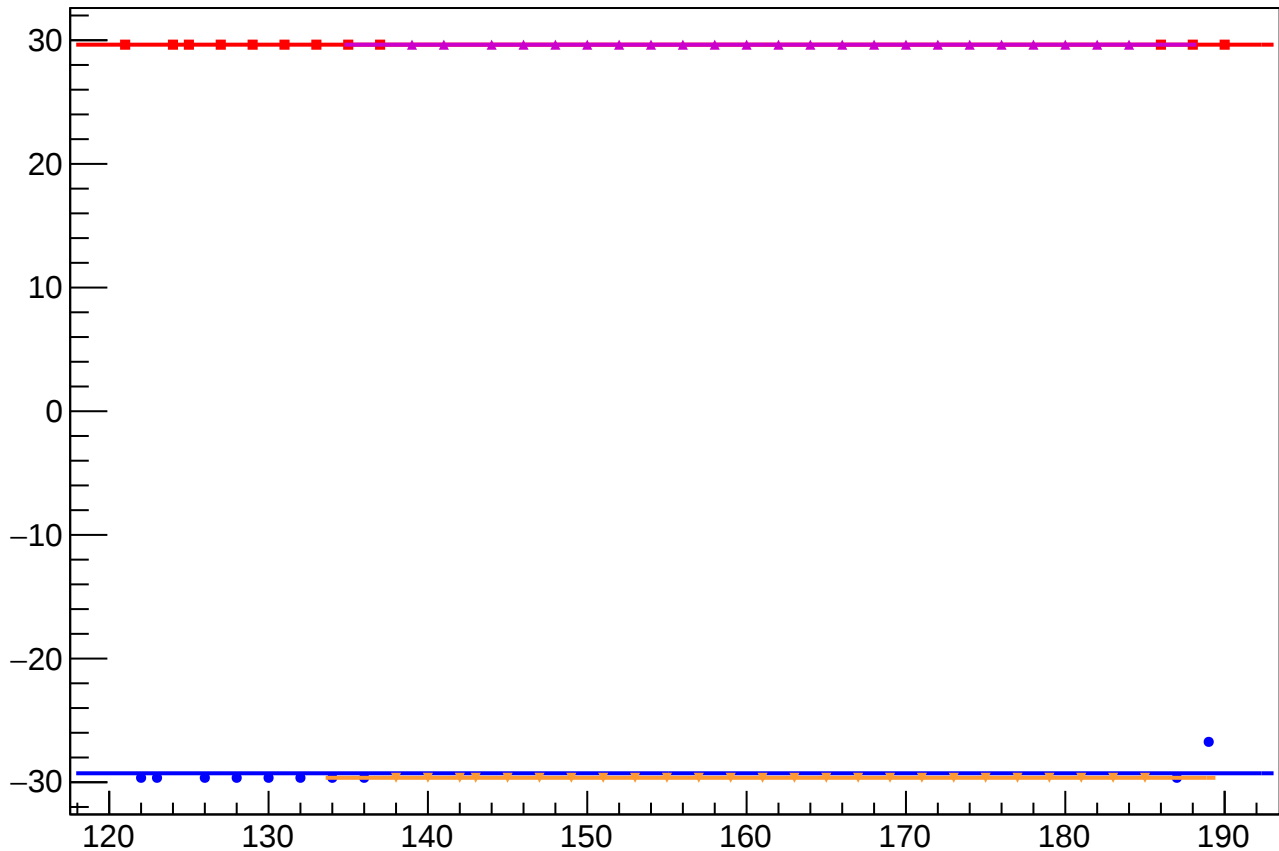
VWienAngle_mean vs Slug, Sign Corrected



Right In: 86.917+/-0.000 χ^2/NDF : 3319284182634901889497368914558976.0/9
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 218912.1/11
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
 Right: -8.386+/-0.000 χ^2/NDF : 6771387621001043
 In: 89.925+/-0.000 χ^2/NDF : 781633749868676797
 Out: -90.072+/-0.000 χ^2/NDF : 2616131692161688
 All: -3.566+/-0.000 χ^2/NDF : 3731829026977

HWienAngle_mean vs Slug, Sign Corrected



Left: -0.789 $\pm$ 0.000 χ^2 /NDF: 32668496095314519

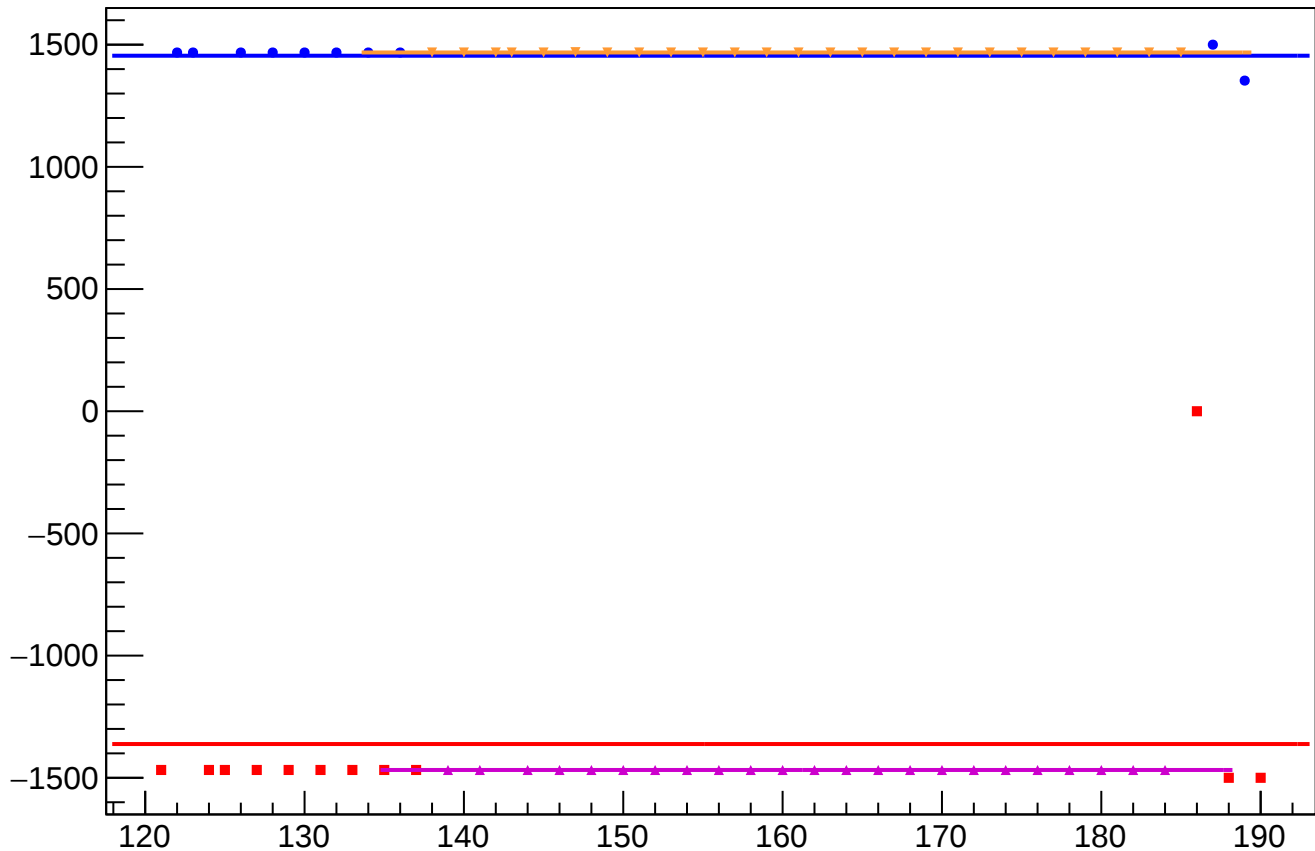
Right: 2.825 $\pm$ 0.000 χ^2 /NDF: 76821431230242699

In: 18.851 $\pm$ 0.000 χ^2 /NDF: 115157661358864937

Out: -17.616 $\pm$ 0.000 χ^2 /NDF: 1361506808000067

All: -0.090 $\pm$ 0.000 χ^2 /NDF: 4044456952785

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1454.791+/-0.000

χ^2/NDF : 620701470025135611061893911168417792.0/9

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1361.831+/-0.000

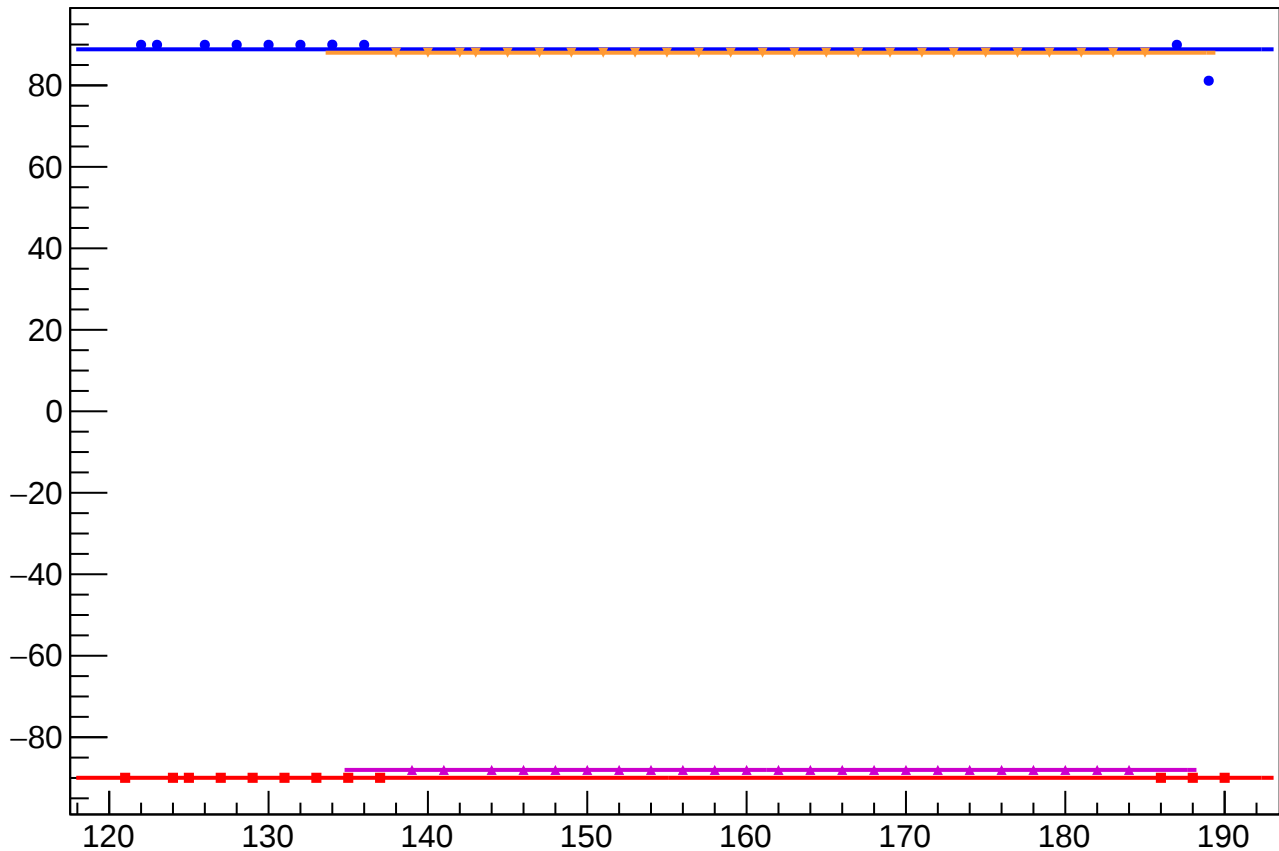
χ^2/NDF : 76545897929585523197148075230838652928.0/11

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

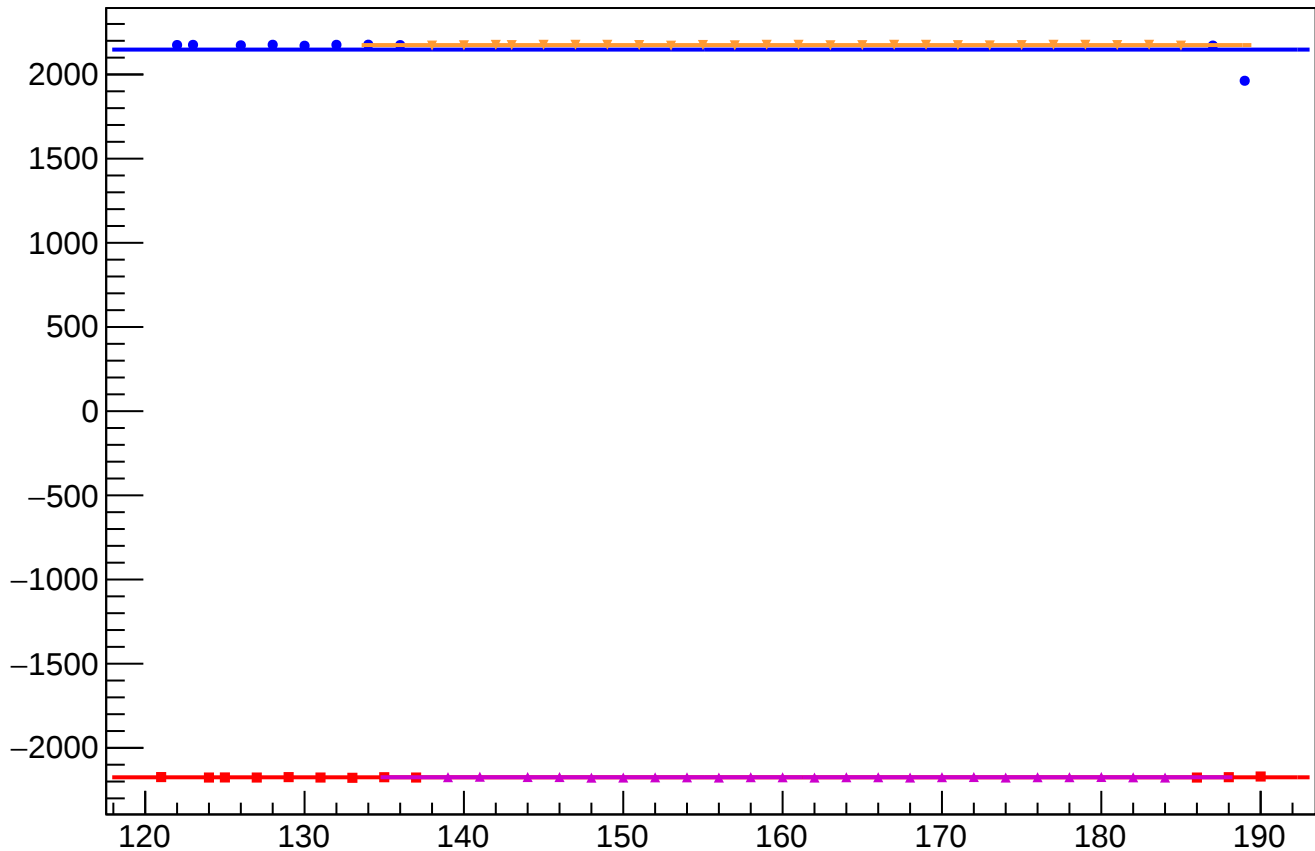
All: 16.091+/-0.000 χ^2/NDF : 9855643640517

Phi_FG_mean vs Slug, Sign Corrected



Right In: 88.853+/-0.000 χ^2/NDF : 3470239709183582261005318560415744.0/9
 Left Out: 88.021+/-0.000 χ^2/NDF : 5326388.8/24
 Right Out: -89.959+/-0.000 χ^2/NDF : 1383144.5/11
 Left In: -88.021+/-0.000 χ^2/NDF : 6084099.2/22
 Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978
 Right: -8.572+/-0.000 χ^2/NDF : 7076294367274594
 In: -55.630+/-0.000 χ^2/NDF : 10378897307600813
 Out: 51.920+/-0.000 χ^2/NDF : 12272279215402315
 All: 0.232+/-0.000 χ^2/NDF : 35970567954124

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2147.782+/-0.000

χ^2/NDF : 2001239028453492065294499892906950656.0/9

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.851+/-0.000

χ^2/NDF : 1685945293021631114426511056175104.0/11

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

Left: 57.898+/-0.000 χ^2/NDF : 17583418754650851.0/24

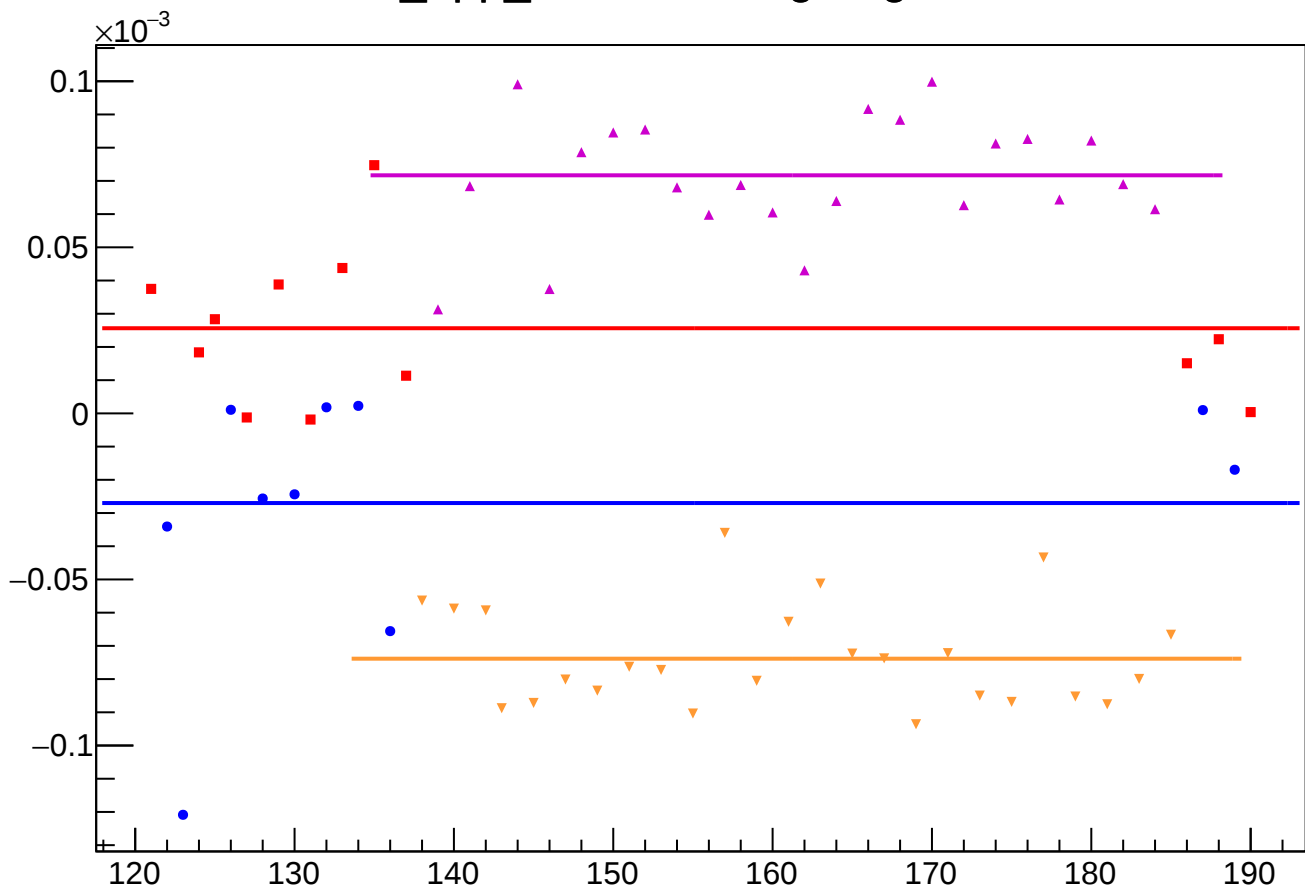
Right: -207.375+/-0.000 χ^2/NDF : 41352770051688.0/24

In: -1382.991+/-0.000 χ^2/NDF : 619802404592047.0/24

Out: 1292.383+/-0.000 χ^2/NDF : 732920006923183.0/24

All: 6.603+/-0.000 χ^2/NDF : 21769327895342.0/24

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 269004303271763004882944.0/9

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 11146547147162857

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000+/-0.000

χ^2/NDF : 4060321979367252033

Right Out: 0.000+/-0.000

χ^2/NDF : 232894194279755200593920.0/11

Out: -0.000+/-0.000

χ^2/NDF : 45185146939514453

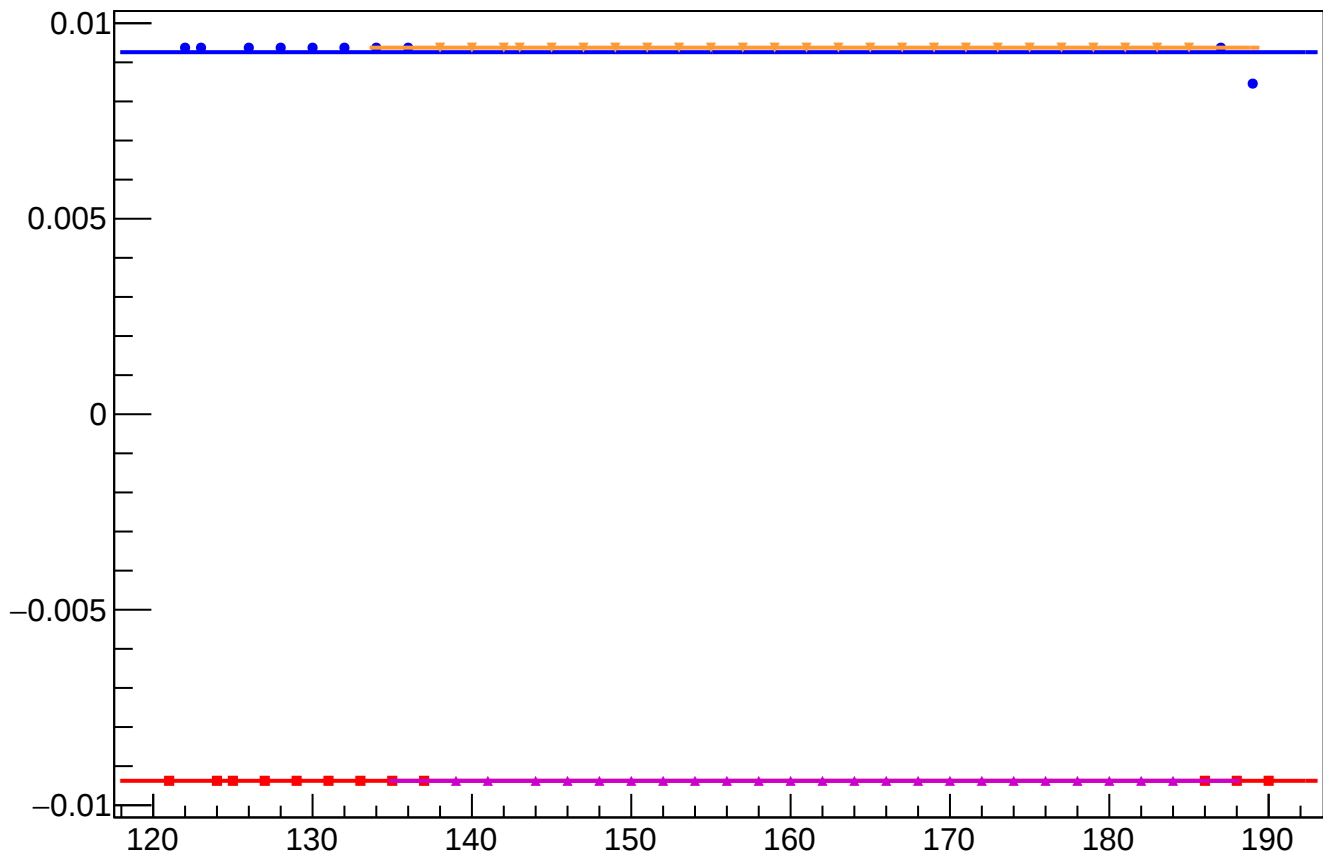
Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000+/-0.000

χ^2/NDF : 2183329130215

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 37671655407852576596557824.0/9

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/11

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 : 7685072053362395

In: -0.006+/-0.000

χ^2/NDF : 115201566915246860

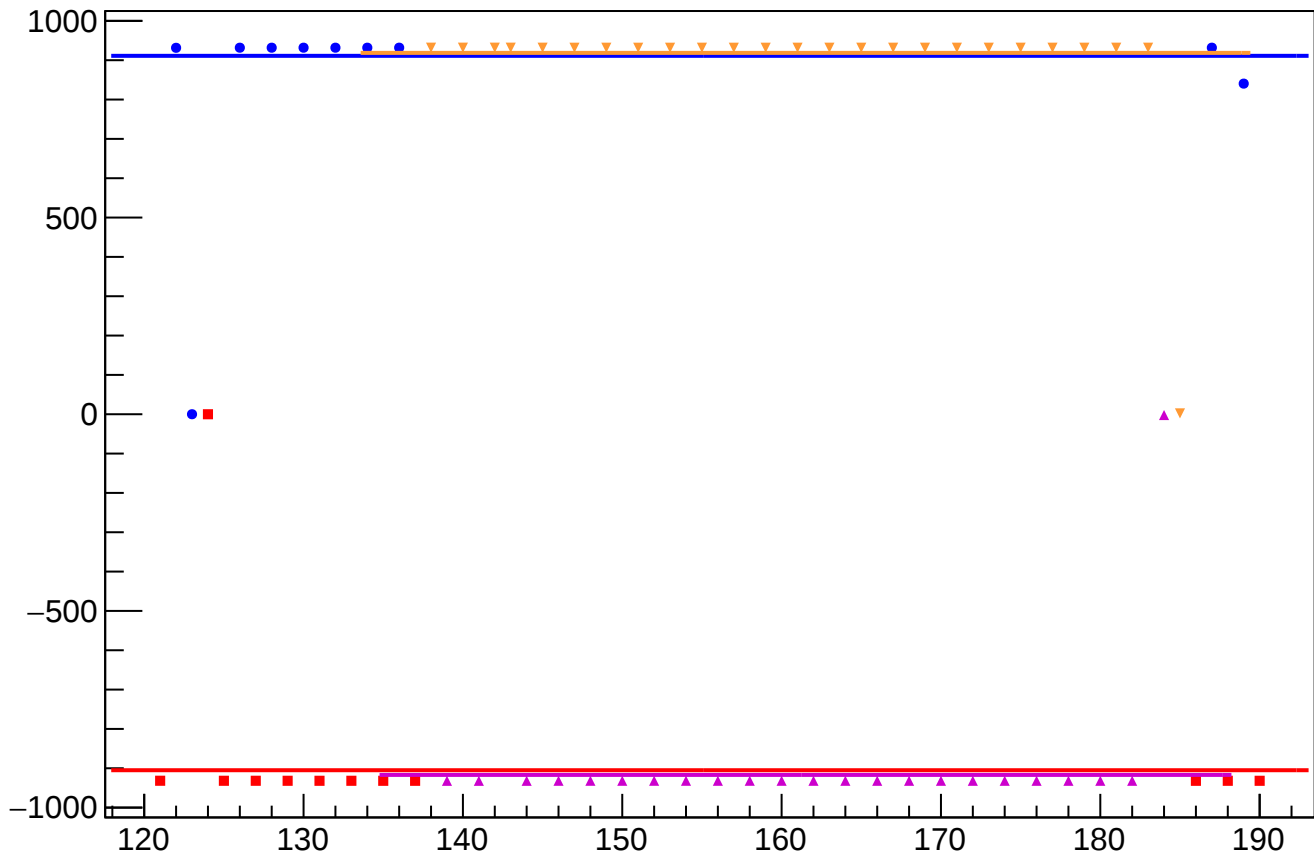
Out: 0.006+/-0.000

χ^2/NDF : 136202590254590648

All: 0.000+/-0.000

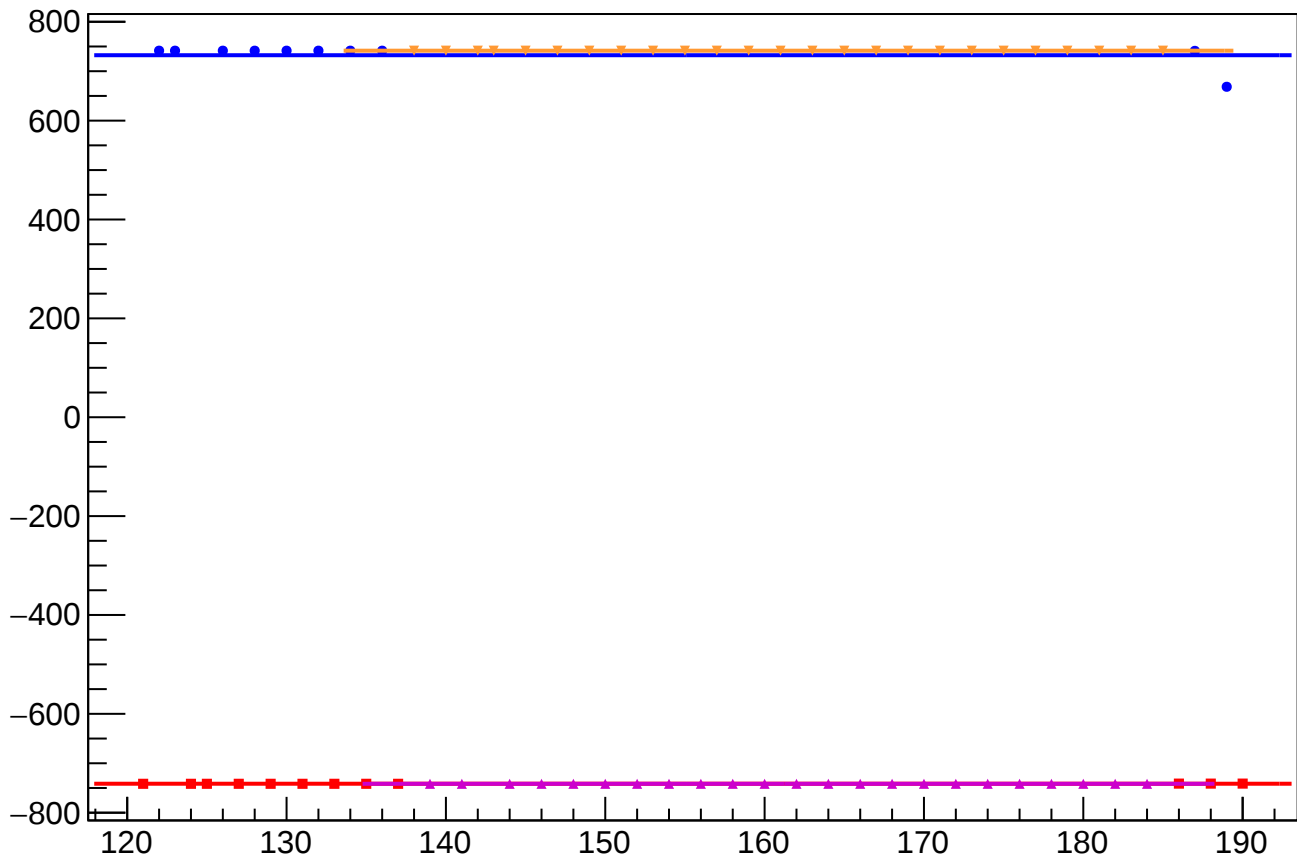
χ^2/NDF : 40459989616341

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



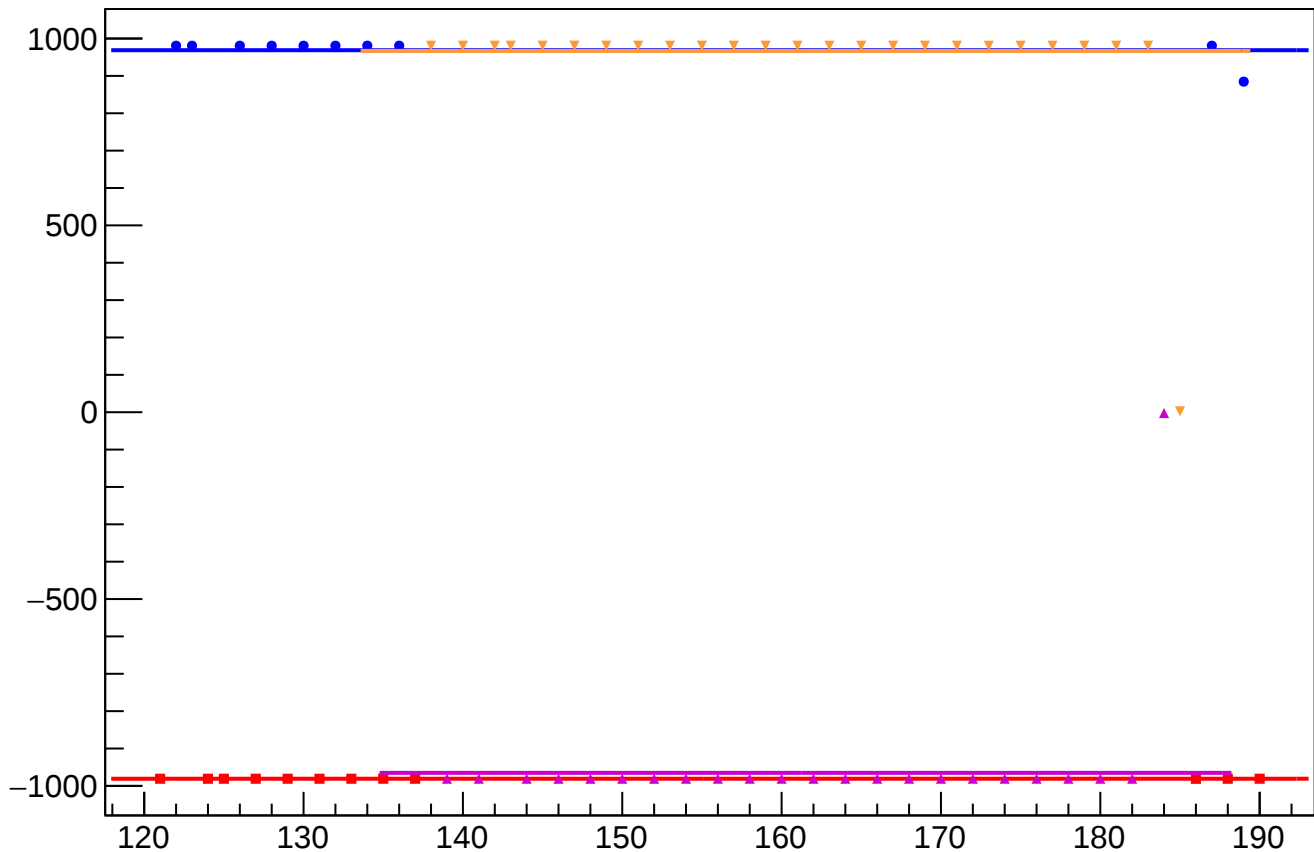
Right In: 911.148+/-0.000	χ^2/NDF : 3724814795110127321454463350940368896.0/9	Left: 25.295+/-0.000	χ^2/NDF : 31796385721824018
Left Out: 918.645+/-0.000	χ^2/NDF : 23003498704056084939752432521336324096.0/24	Right: -78.359+/-0.000	χ^2/NDF : 745143335545261
Right Out: -904.985+/-0.000	χ^2/NDF : 11805229318701550084420616976963993600.0/11	In: -582.121+/-0.000	χ^2/NDF : 1136671929970566
Left In: -916.890+/-0.000	χ^2/NDF : 2466789491747623125028694438888133632.0/22	Out: 548.743+/-0.000	χ^2/NDF : 1323224461278759
	All: 5.252+/-0.000		χ^2/NDF : 39325125964733

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 732.340+/-0.000 χ^2/NDF : 237710663434083416401695996945367040.0/9
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.400+/-0.000 χ^2/NDF : 15043140617999368074846646829056.0/11
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 2.259+/-0.000 χ^2/NDF : 25310607338057

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 968.742+/-0.000

χ^2/NDF : 412556623891481458701173598650892288.0/9

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.846+/-0.000

χ^2/NDF : 1916149670264271549374484447232.0/11

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 3.396+/-0.000 χ^2/NDF : 43743407945799

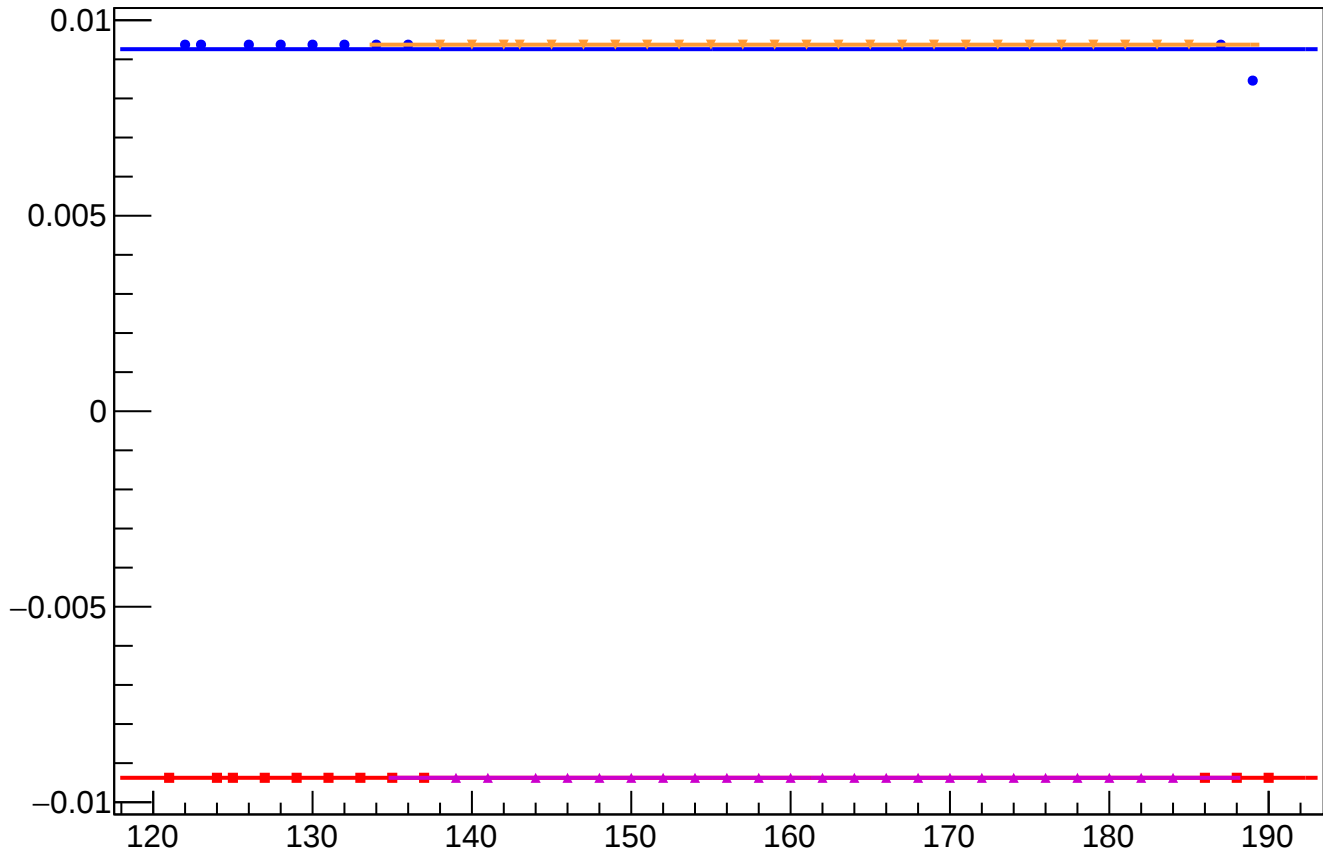
Left: 26.619+/-0.000 χ^2/NDF : 35227684296675597

Right: -93.478+/-0.000 χ^2/NDF : 841194704670215

In: -610.957+/-0.000 χ^2/NDF : 1268028941794021

Out: 571.852+/-0.000 χ^2/NDF : 1495304135872889

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 37671655407852576596557824.0/9

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/11

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 : 7685072053362395

In: -0.006+/-0.000

χ^2/NDF : 115201566915246860

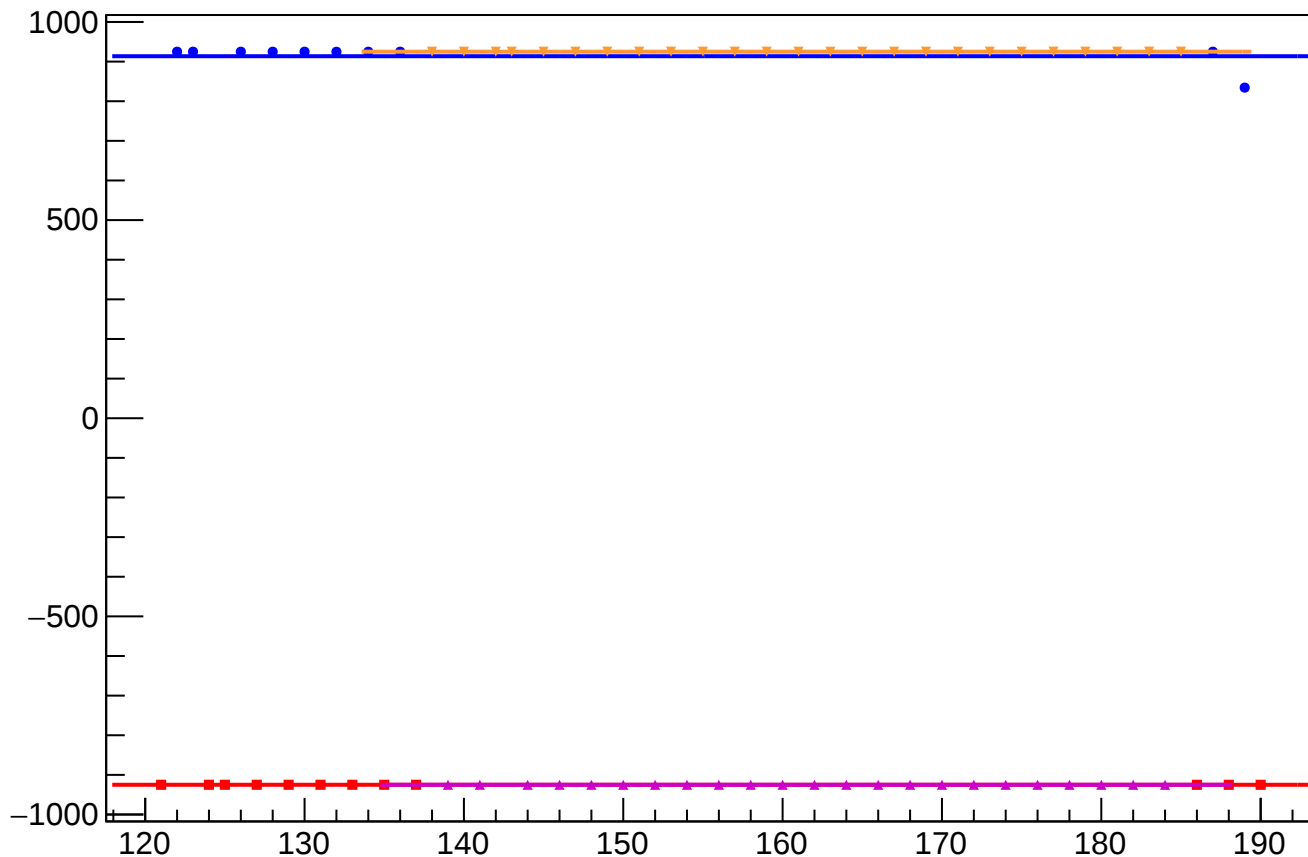
Out: 0.006+/-0.000

χ^2/NDF : 136202590254590648

All: 0.000+/-0.000

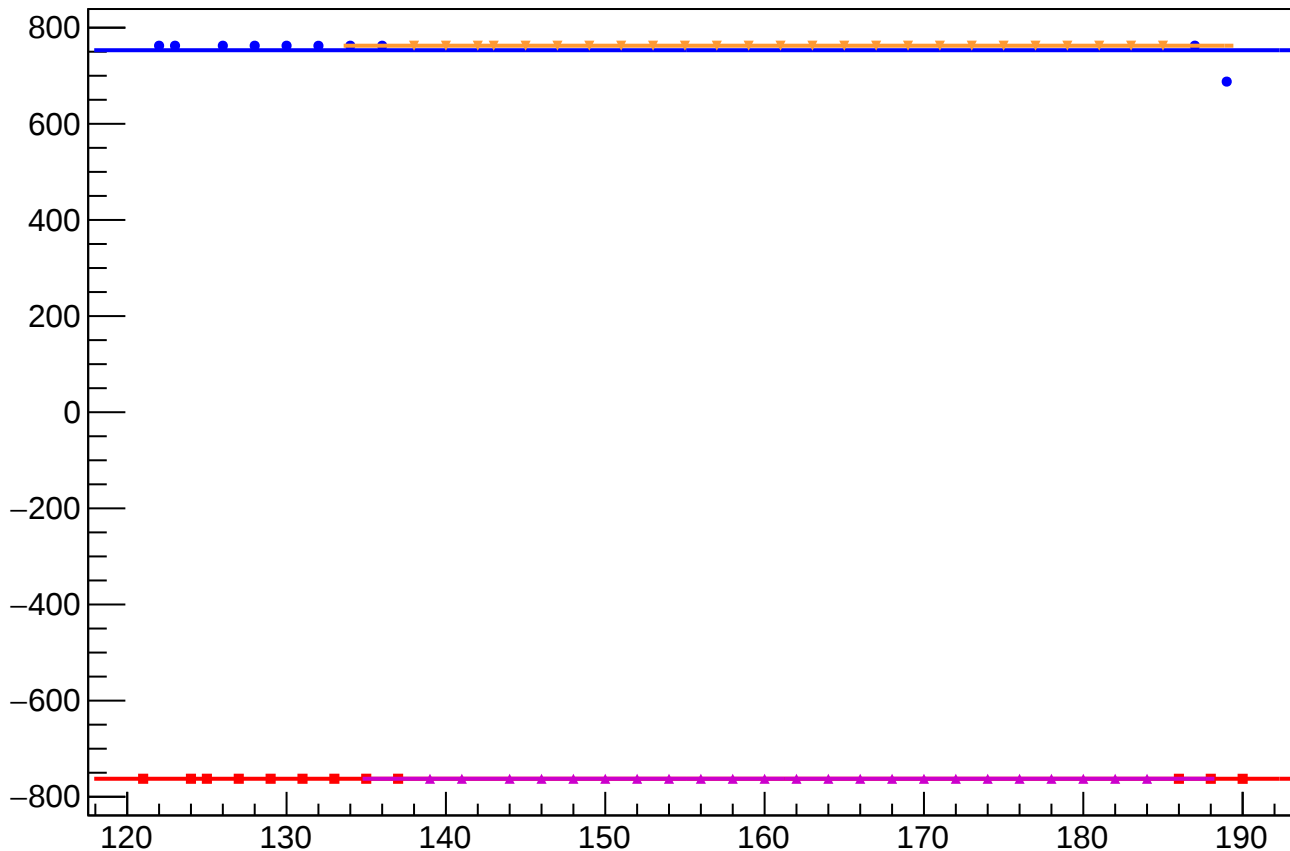
χ^2/NDF : 40459989616341

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



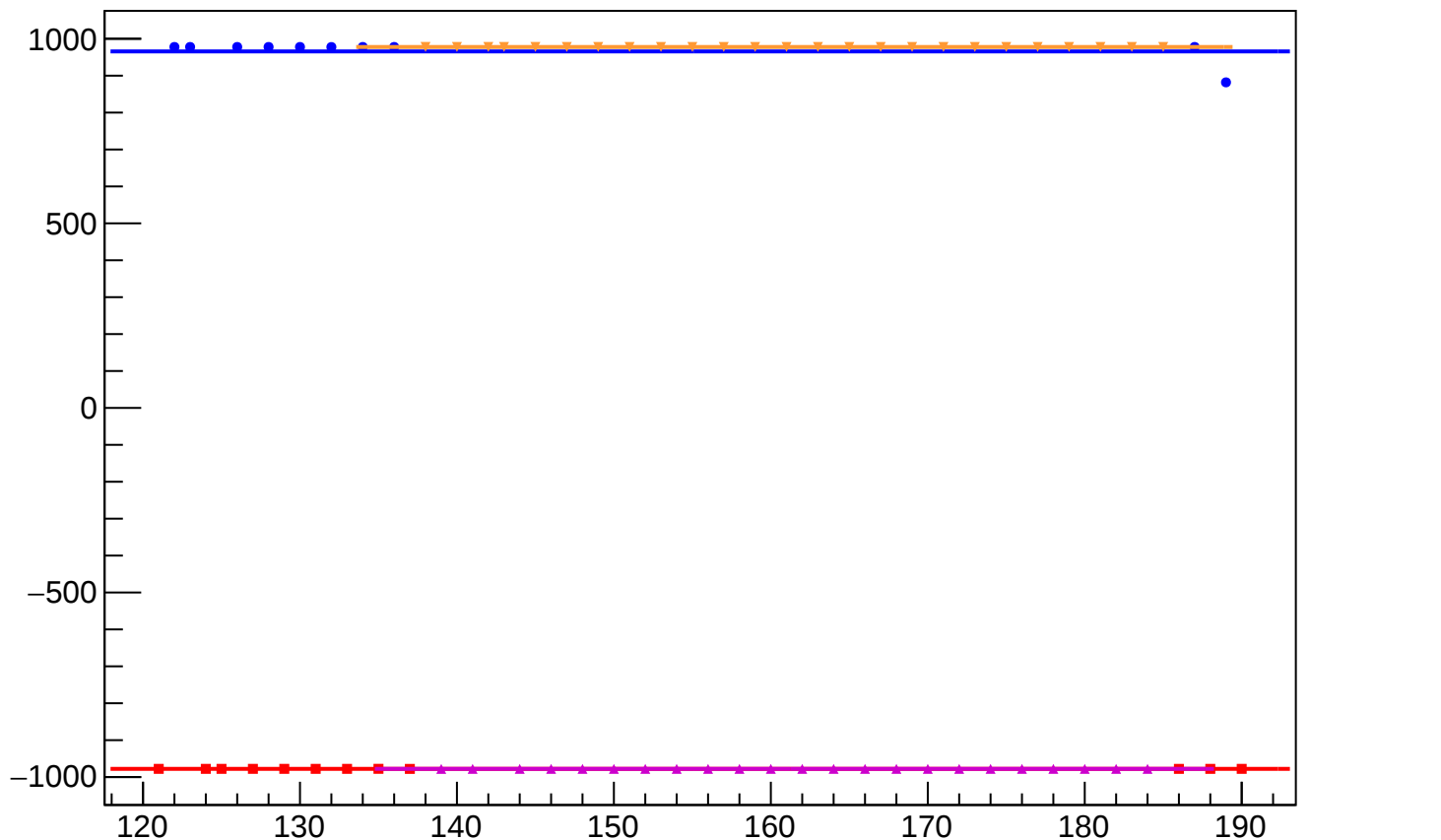
Right In: 913.562 +/- 0.000 χ^2/NDF : 366058271931843986263462161248419840.0/9
 Left Out: 924.983 +/- 0.000 χ^2/NDF : 1041831865443970524066476982272.0/24
 Right Out: -924.979 +/- 0.000 χ^2/NDF : 499107560710465641921300660224.0/11
 Left In: -924.983 +/- 0.000 χ^2/NDF : 888539224321534960792212865024.0/22
 All: 2.805 +/- 0.000 χ^2/NDF : 39386518193851

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



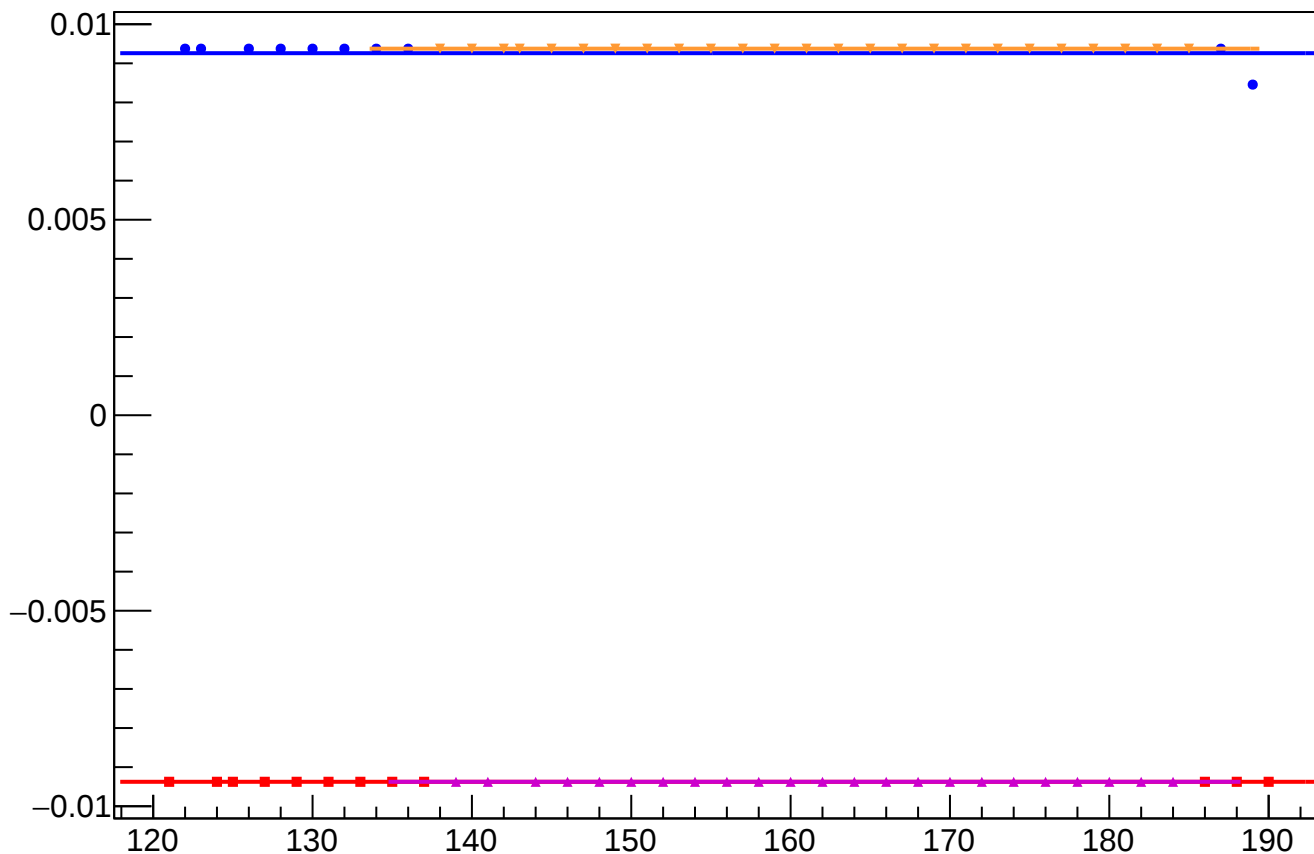
Right In: 753.107+/-0.000	χ^2/NDF : 248676605118673056468442306043707392.0/9	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: -72.677+/-0.000	χ^2/NDF : 508393758385163
Right Out: -762.530+/-0.000	χ^2/NDF : 794379129742578784976985128960.0/11	In: -484.962+/-0.000	χ^2/NDF : 7620872668361684
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 453.181+/-0.000	χ^2/NDF : 9010520934817497
	All: 2.311+/-0.000		χ^2/NDF : 26765994744077

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 965.707+/-0.000 χ^2/NDF : 409469280914675504381927925097693184.0/9
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.750+/-0.000 χ^2/NDF : 978547533597411052030357667840.0/11
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 2.968+/-0.000 χ^2/NDF : 44007720987683

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 37671655407852576596557824.0/9

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/11

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 : 7685072053362395

In: -0.006+/-0.000

χ^2/NDF : 115201566915246860

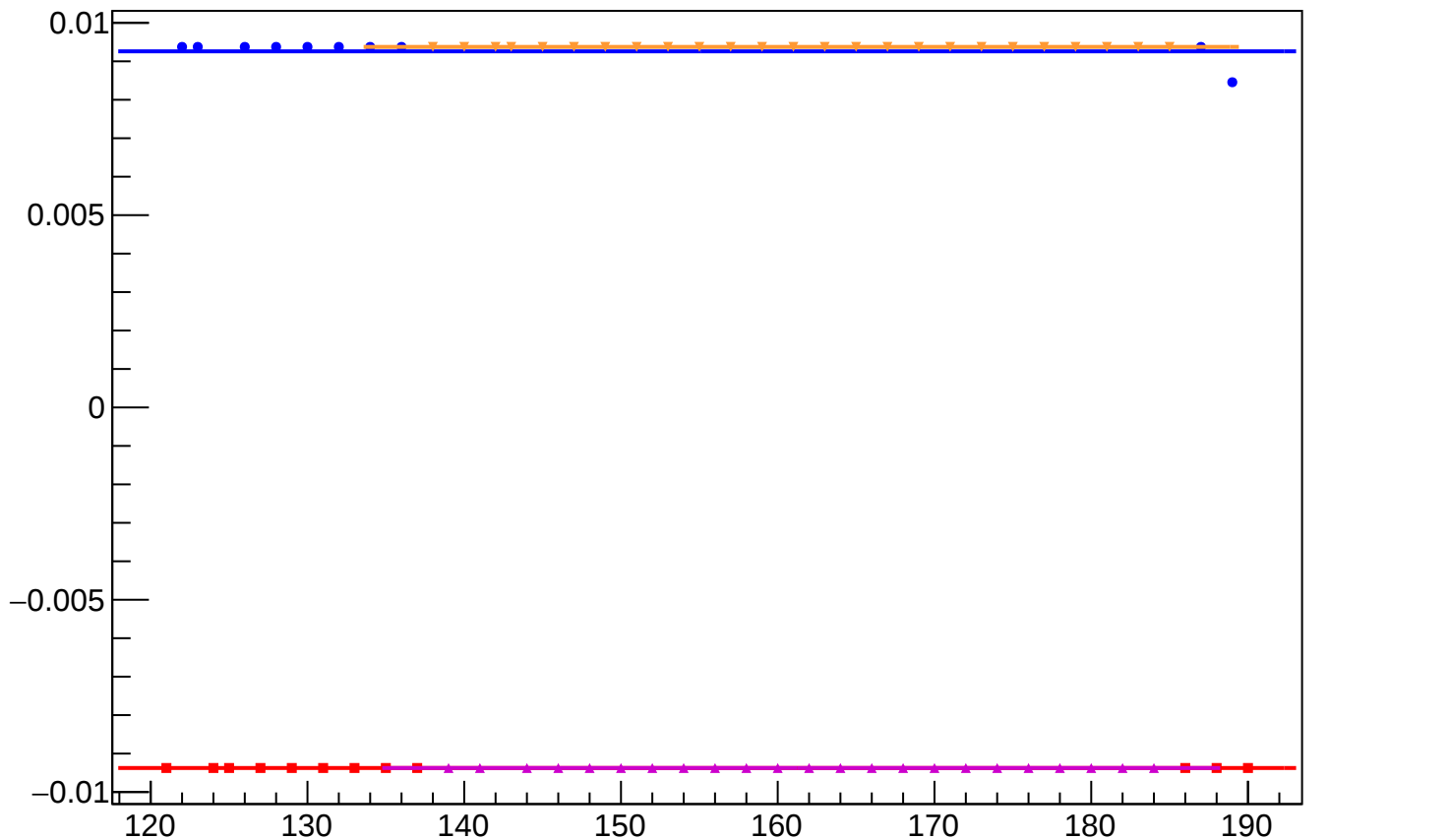
Out: 0.006+/-0.000

χ^2/NDF : 136202590254590648

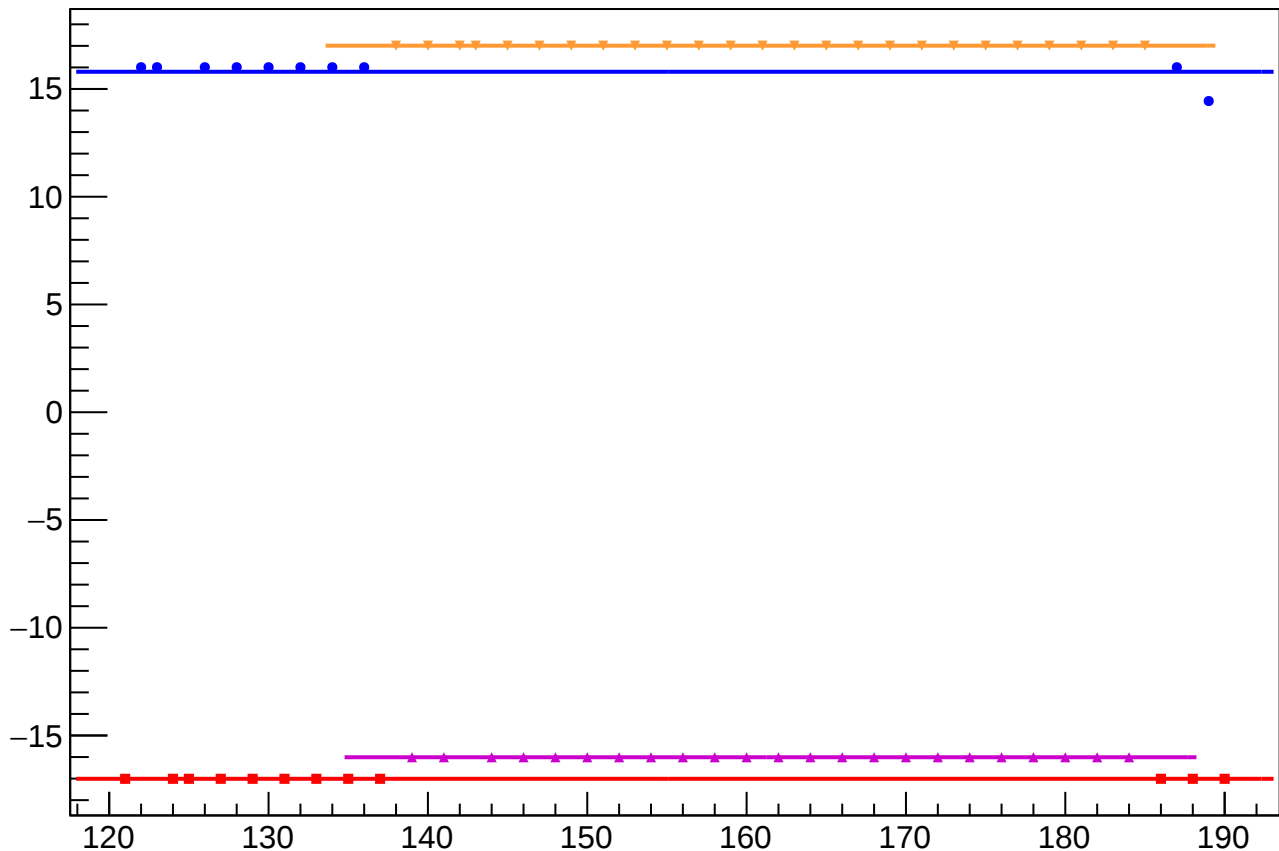
All: 0.000+/-0.000

χ^2/NDF : 40459989616341

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected

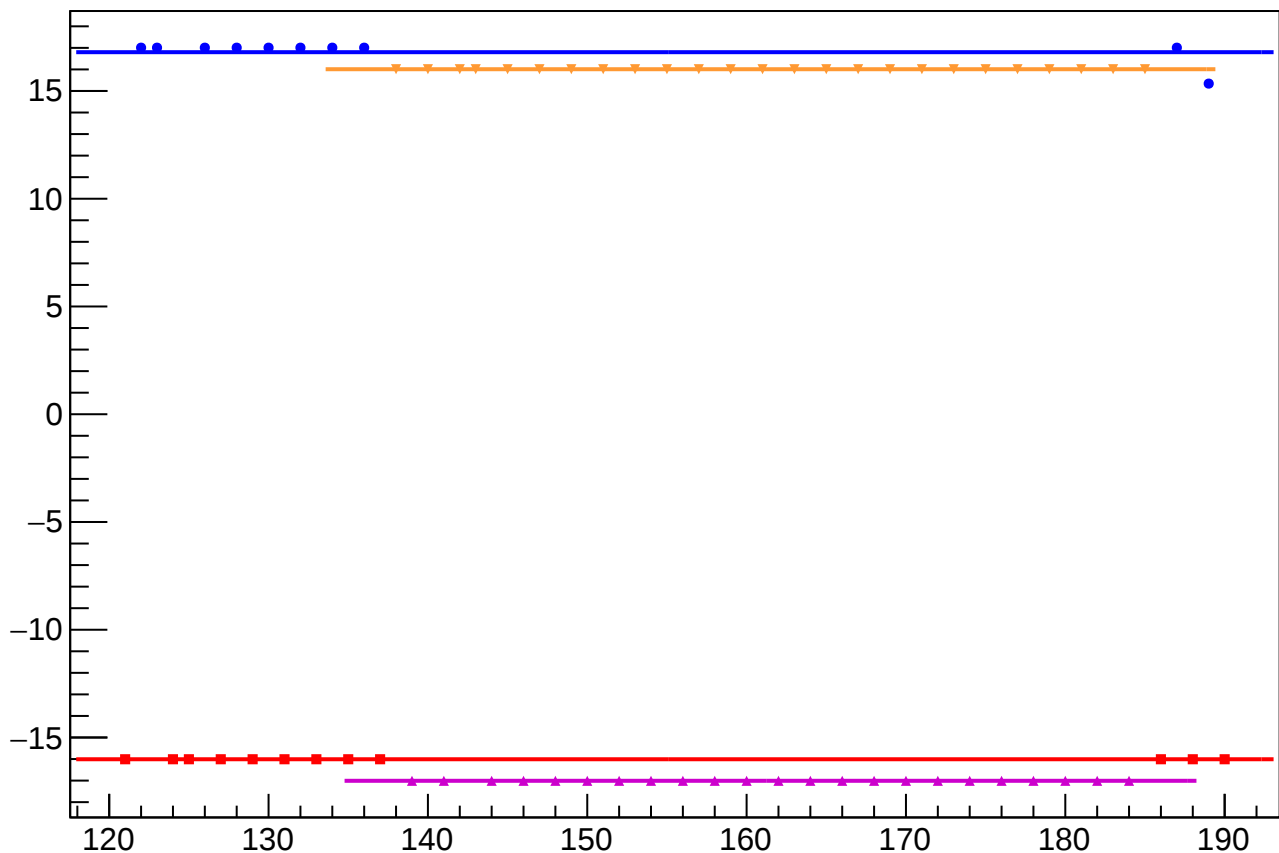


IGL1I00DI24_24M_mean vs Slug, Sign Corrected



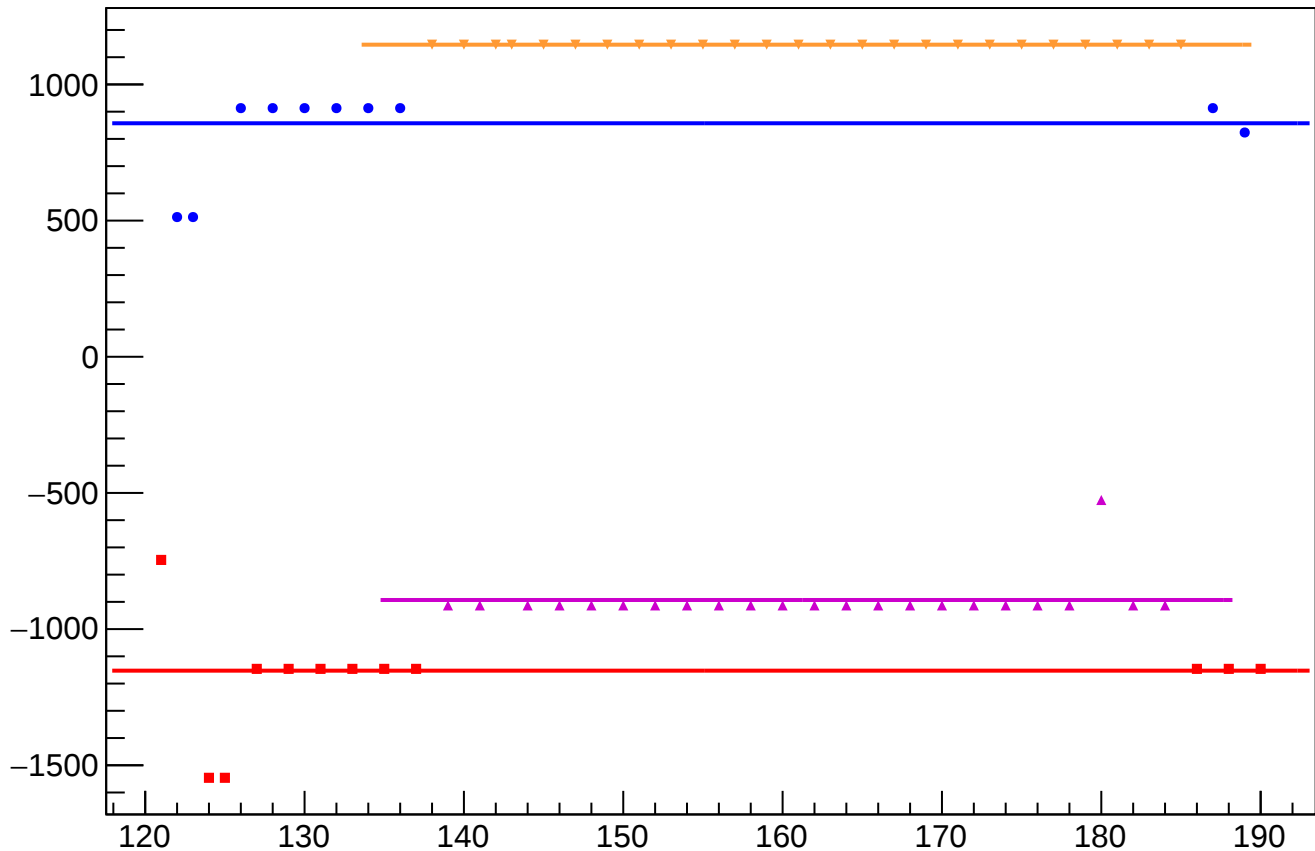
Right In: 15.799+/-0.000 χ^2/NDF : 108775450098059645296703598231552.0/9
 Left Out: 17.009+/-0.000 χ^2/NDF : 26284444608576238643052544.0/24
 Right Out: -17.009+/-0.000 χ^2/NDF : 10412739661359073263091712.0/11
 Left In: -16.009+/-0.000 χ^2/NDF : 127973174512756677672960.0/22
 All: 0.292+/-0.000 χ^2/NDF : 11754554983806

IGL1I00OD16_16_mean vs Slug, Sign Corrected



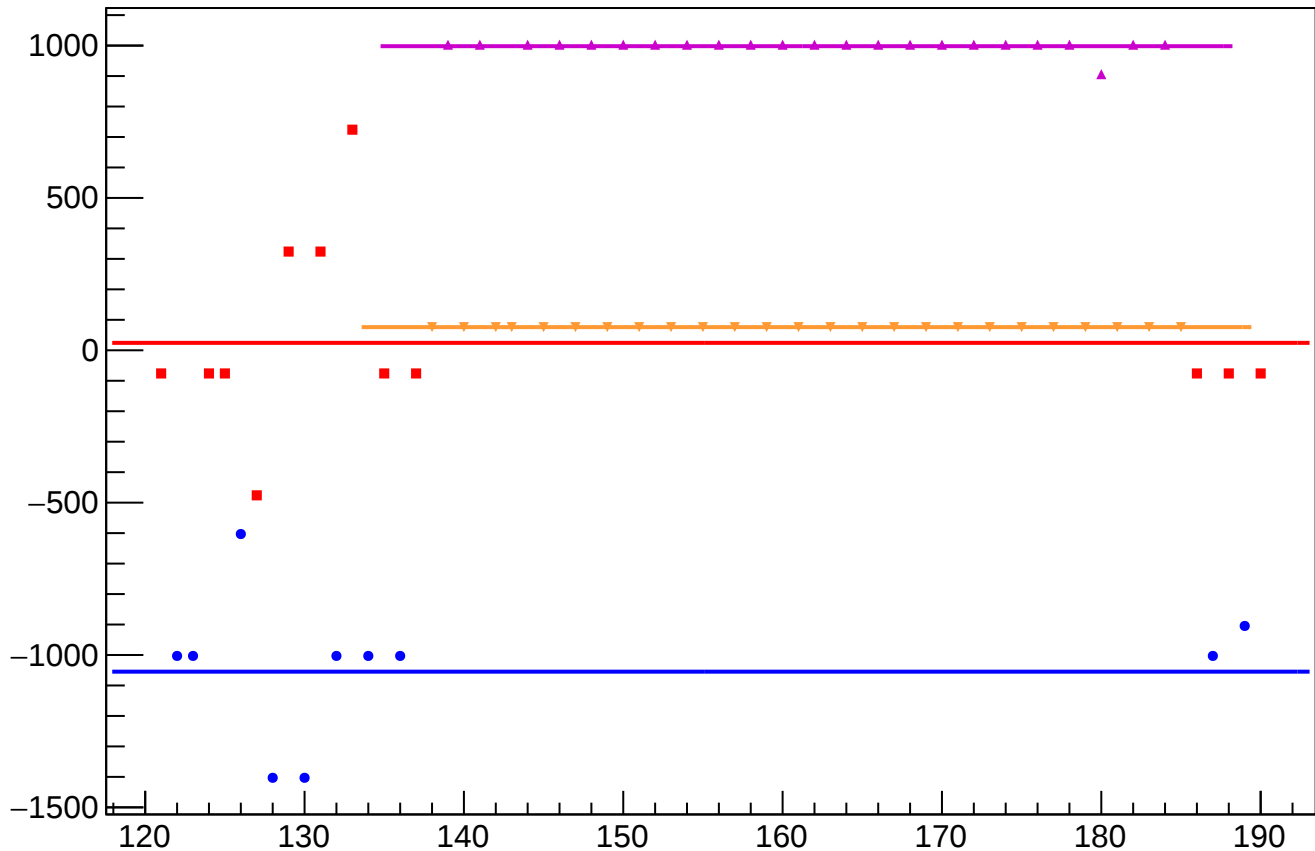
Right In: 16.800+/-0.000 χ^2/NDF : 124007760372804678512643332374528.0/9
 Left Out: 16.009+/-0.000 χ^2/NDF : 89740.8/24
 Right Out: -16.009+/-0.000 χ^2/NDF : 145301.9/11
 Left In: -17.009+/-0.000 χ^2/NDF : 115033472633445654986752.0/22
 All: -0.177+/-0.000 χ^2/NDF : 1233450358853

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right In: 857.414+/-0.000 χ^2/NDF : 6354508219207121827863428688842326016.0/9
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right: -237.725+/-0.000 χ^2/NDF : 91379715211093
 In: -572.541+/-0.000 χ^2/NDF : 1035865894164108
 Right Out: -1152.594+/-0.000 χ^2/NDF : 13739597787856329541199961889060159488.0/11
 Out: 679.766+/-0.000 χ^2/NDF : 2060709998797140
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 77.910+/-0.000 χ^2/NDF : 4902464741898

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1054.676+/-0.000

χ^2/NDF : 22608131434739457083296378094400569344.0/9

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 24.401+/-0.000

χ^2/NDF : 42139619660088584998369991234848555008.0/11

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 333.028+/-0.000 χ^2/NDF : 182073043432