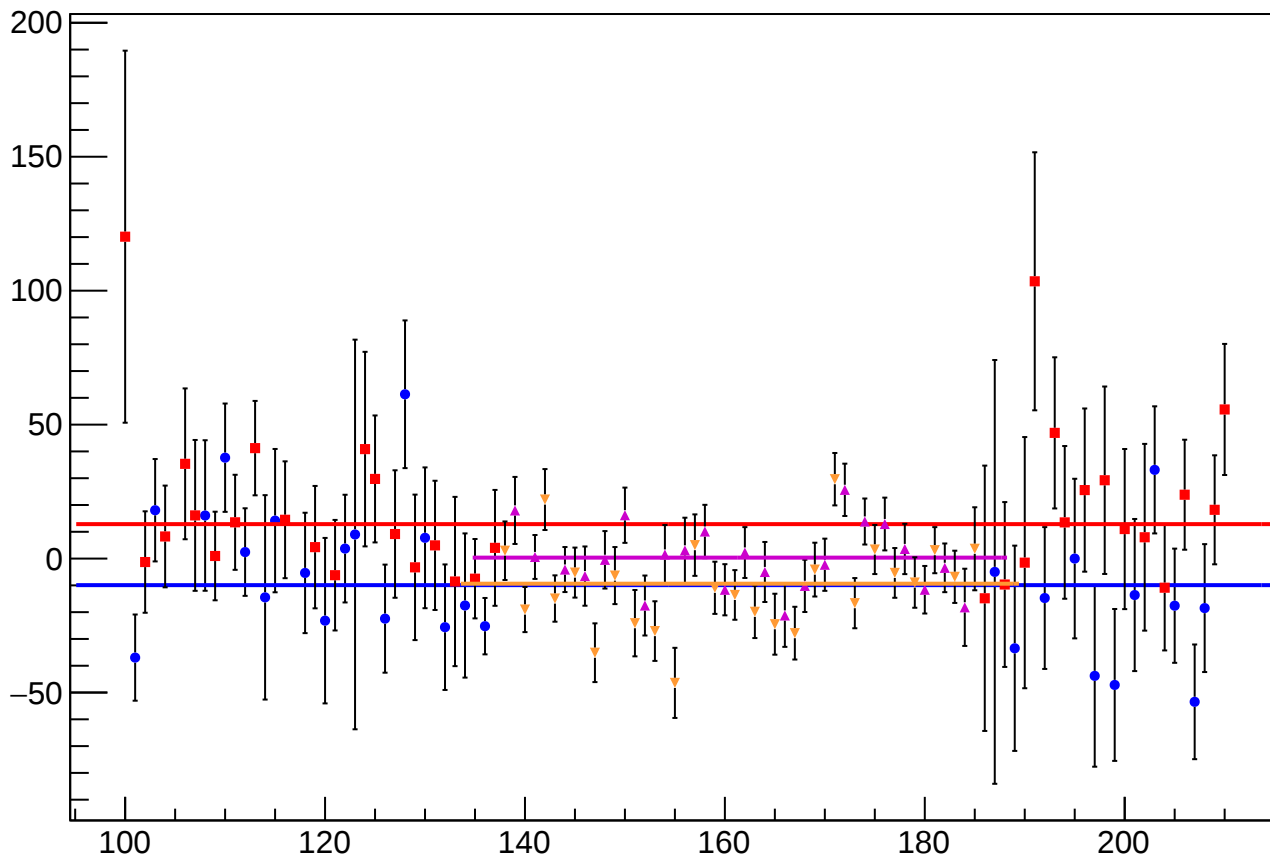


diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.915 ± 4.305 $\chi^2/\text{NDF}: 34.6/27$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 12.860 ± 4.198 $\chi^2/\text{NDF}: 22.7/32$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

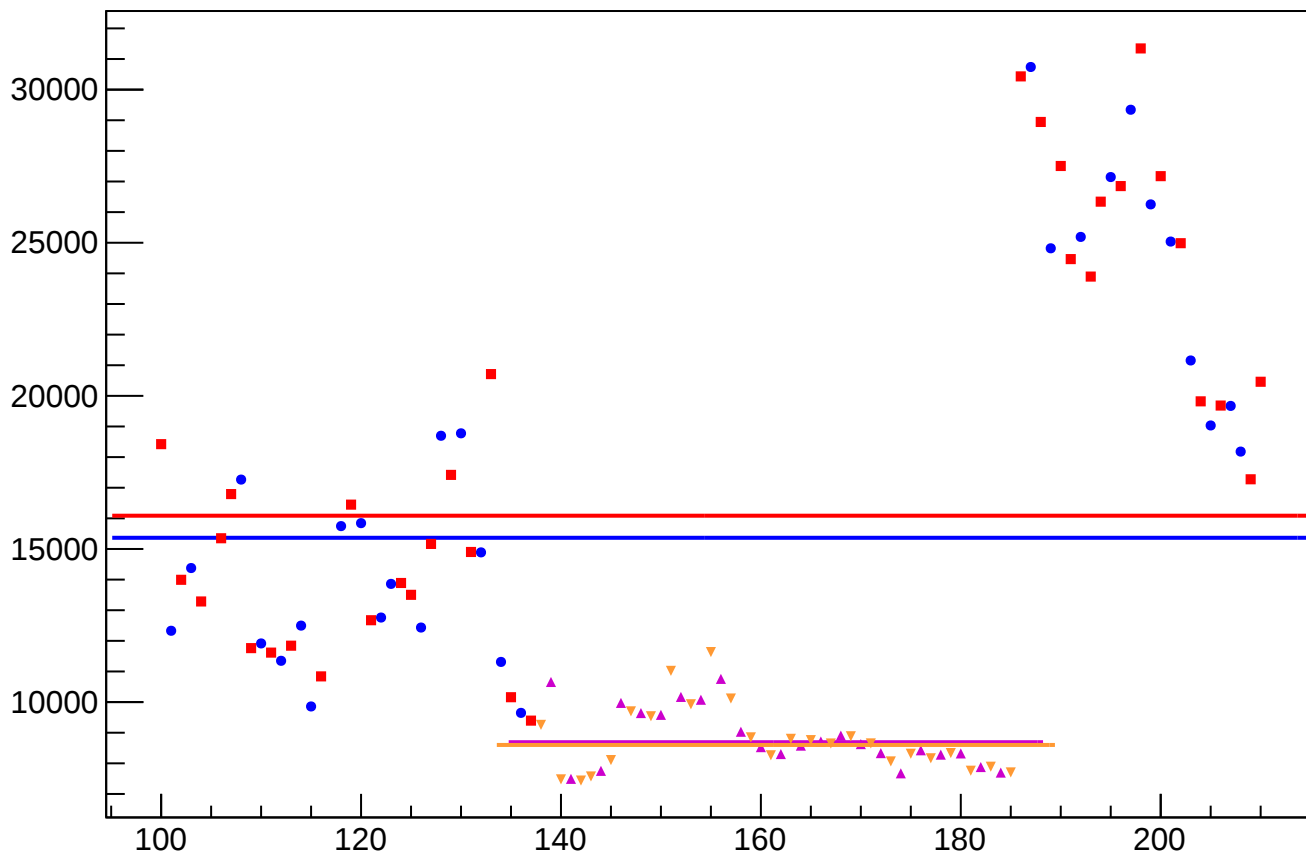
Right: 1.761 ± 3.006 $\chi^2/\text{NDF}: 71.7/60$

In: -1.608 ± 1.882 $\chi^2/\text{NDF}: 68.9/50$

Out: -5.203 ± 1.819 $\chi^2/\text{NDF}: 103.9/57$

All: -3.467 ± 1.308 $\chi^2/\text{NDF}: 174.6/108$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15365.536 $\pm$ 3.044 χ^2/NDF : 3077688.9/27

Left Out: 8600.457 $\pm$ 1.427 χ^2/NDF : 438229.4/24

Right Out: 16086.688 $\pm$ 2.968 χ^2/NDF : 3549330.8/32

Left In: 8690.209 $\pm$ 1.479 χ^2/NDF : 370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2/NDF : 810970.4/47

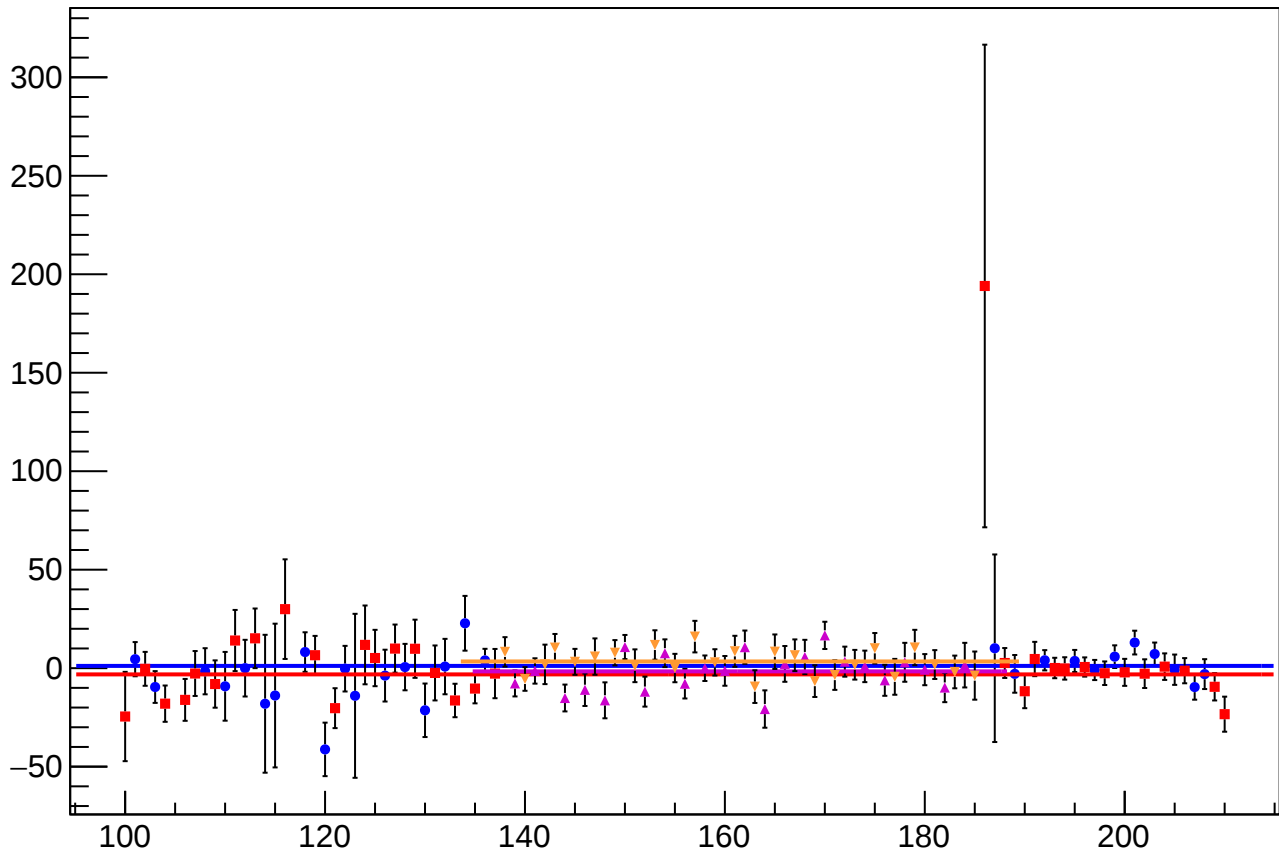
Right: 15735.232 $\pm$ 2.125 χ^2/NDF : 6655787.7/60

In: 9965.524 $\pm$ 1.331 χ^2/NDF : 7338127.4/50

Out: 10005.544 $\pm$ 1.286 χ^2/NDF : 9154827.9/57

All: 9986.218 $\pm$ 0.925 χ^2/NDF : 16493423.0/112

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.149 ± 1.597 $\chi^2/\text{NDF}: 28.4/27$

Left Out: 3.406 ± 1.550 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -3.162 ± 1.499 $\chi^2/\text{NDF}: 32.4/32$

Left In: -1.627 ± 1.599 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.967 ± 1.113 $\chi^2/\text{NDF}: 55.4/47$

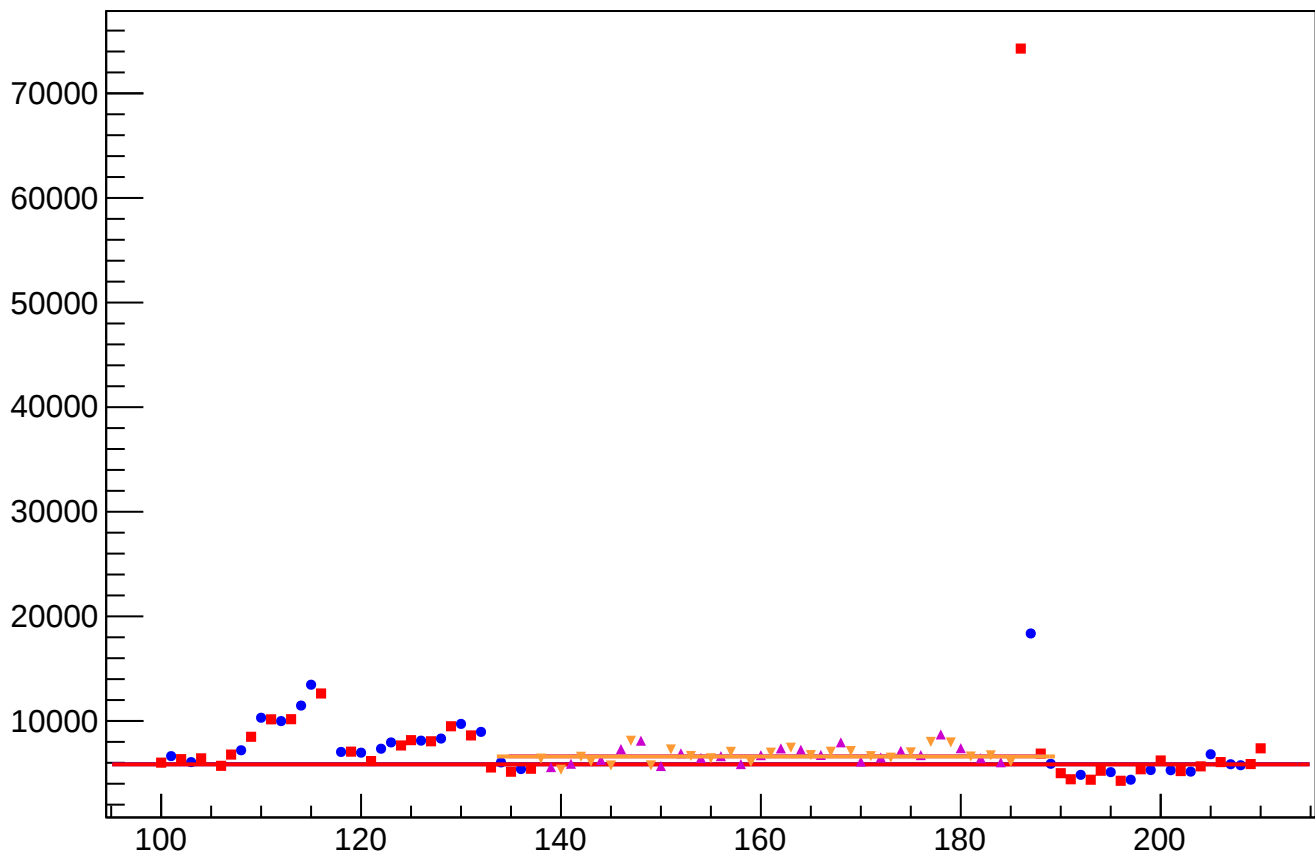
Right: -1.143 ± 1.093 $\chi^2/\text{NDF}: 64.6/60$

In: -0.237 ± 1.130 $\chi^2/\text{NDF}: 63.4/50$

Out: 0.011 ± 1.078 $\chi^2/\text{NDF}: 58.5/57$

All: -0.107 ± 0.780 $\chi^2/\text{NDF}: 121.9/108$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5865.504+/-1.130

χ^2/NDF : 1486394.6/27

Left Out: 6607.100+/-1.096

χ^2/NDF : 398416.1/24

Right Out: 5852.182+/-1.060

χ^2/NDF : 2194263.1/32

Left In: 6628.653+/-1.131

χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787

χ^2/NDF : 828885.6/47

Right: 5858.420+/-0.773

χ^2/NDF : 3680731.7/60

In: 6246.692+/-0.799

χ^2/NDF : 2144660.4/50

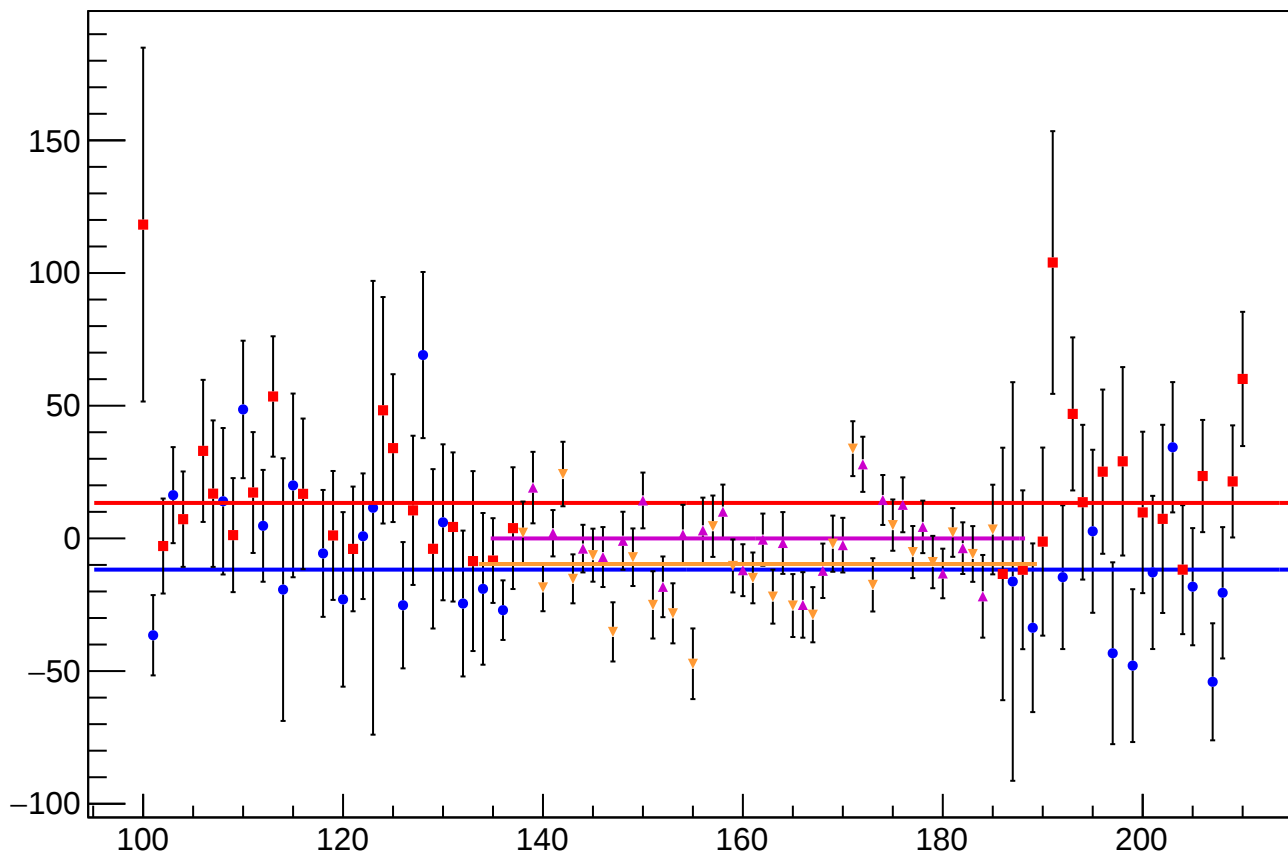
Out: 6216.938+/-0.762

χ^2/NDF : 2837734.1/57

All: 6231.109+/-0.552

χ^2/NDF : 4983120.6/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.769 ± 4.613 χ^2/NDF : 33.4/27

Left Out: -9.649 ± 2.118 χ^2/NDF : 59.8/24

Right Out: 13.362 ± 4.531 χ^2/NDF : 23.5/32

Left In: -0.019 ± 2.192 χ^2/NDF : 30.6/22

Left: -4.999 ± 1.523 χ^2/NDF : 100.4/47

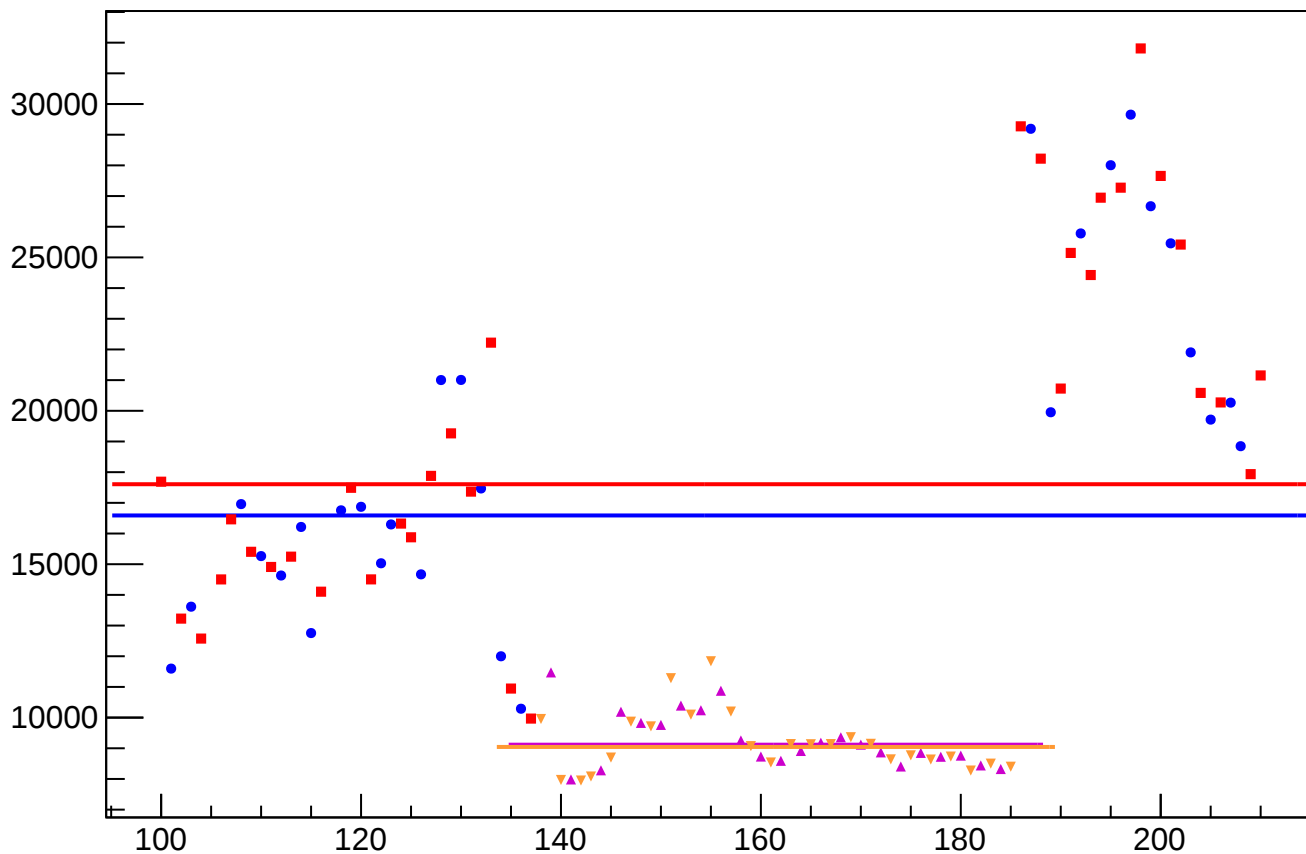
Right: 1.022 ± 3.233 χ^2/NDF : 72.0/60

In: -2.183 ± 1.980 χ^2/NDF : 69.3/50

Out: -5.522 ± 1.919 χ^2/NDF : 104.5/57

All: -3.905 ± 1.378 χ^2/NDF : 175.3/108

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16588.878+/-3.262 χ^2/NDF : 2625267.4/27

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 17607.060+/-3.204 χ^2/NDF : 2748827.3/32

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

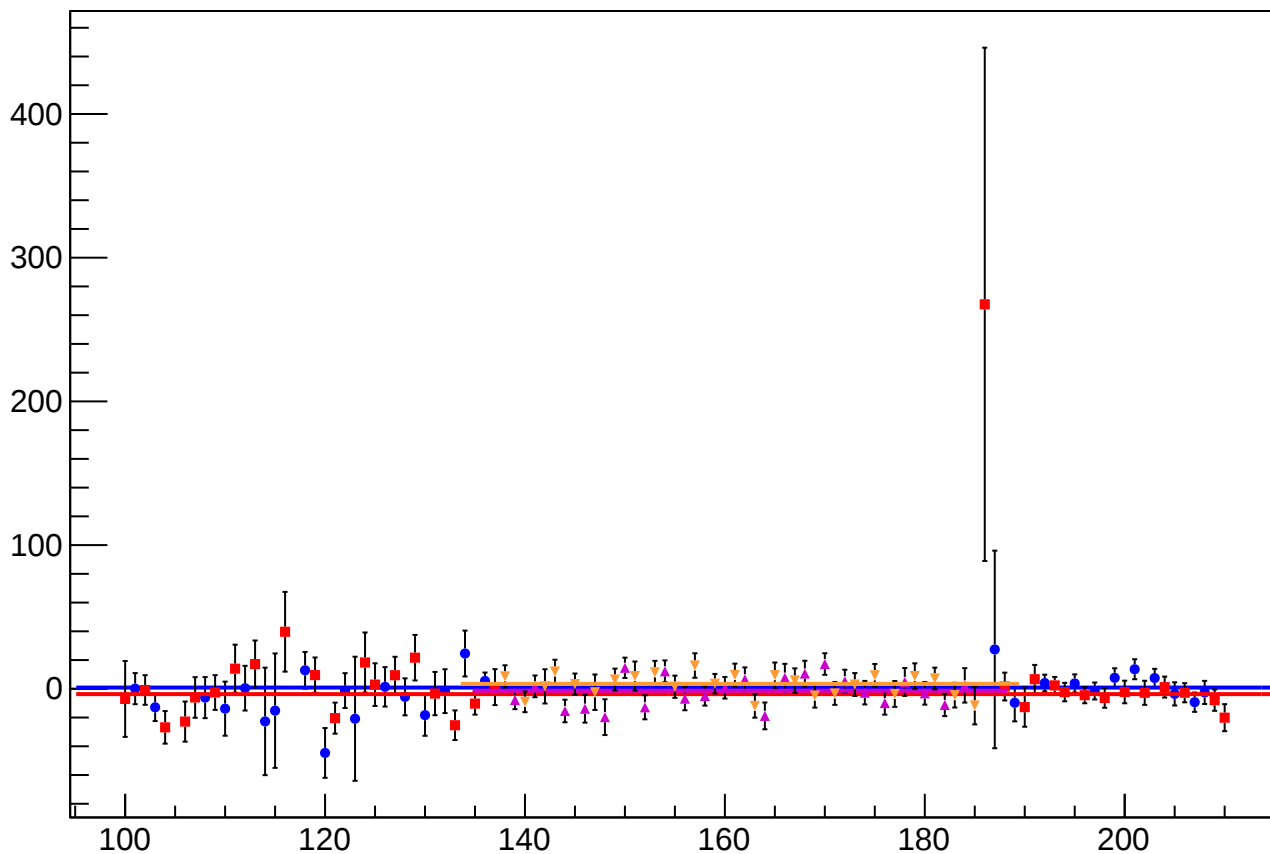
Right: 17107.069+/-2.286 χ^2/NDF : 5423678.3/60

In: 10493.171+/-1.400 χ^2/NDF : 7183244.2/50

Out: 10579.141+/-1.357 χ^2/NDF : 8938848.1/57

All: 10537.499+/-0.974 χ^2/NDF : 16124036.7

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.854 $\pm$ 1.787 χ^2/NDF : 26.2/27

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -3.702 $\pm$ 1.697 χ^2/NDF : 34.4/32

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

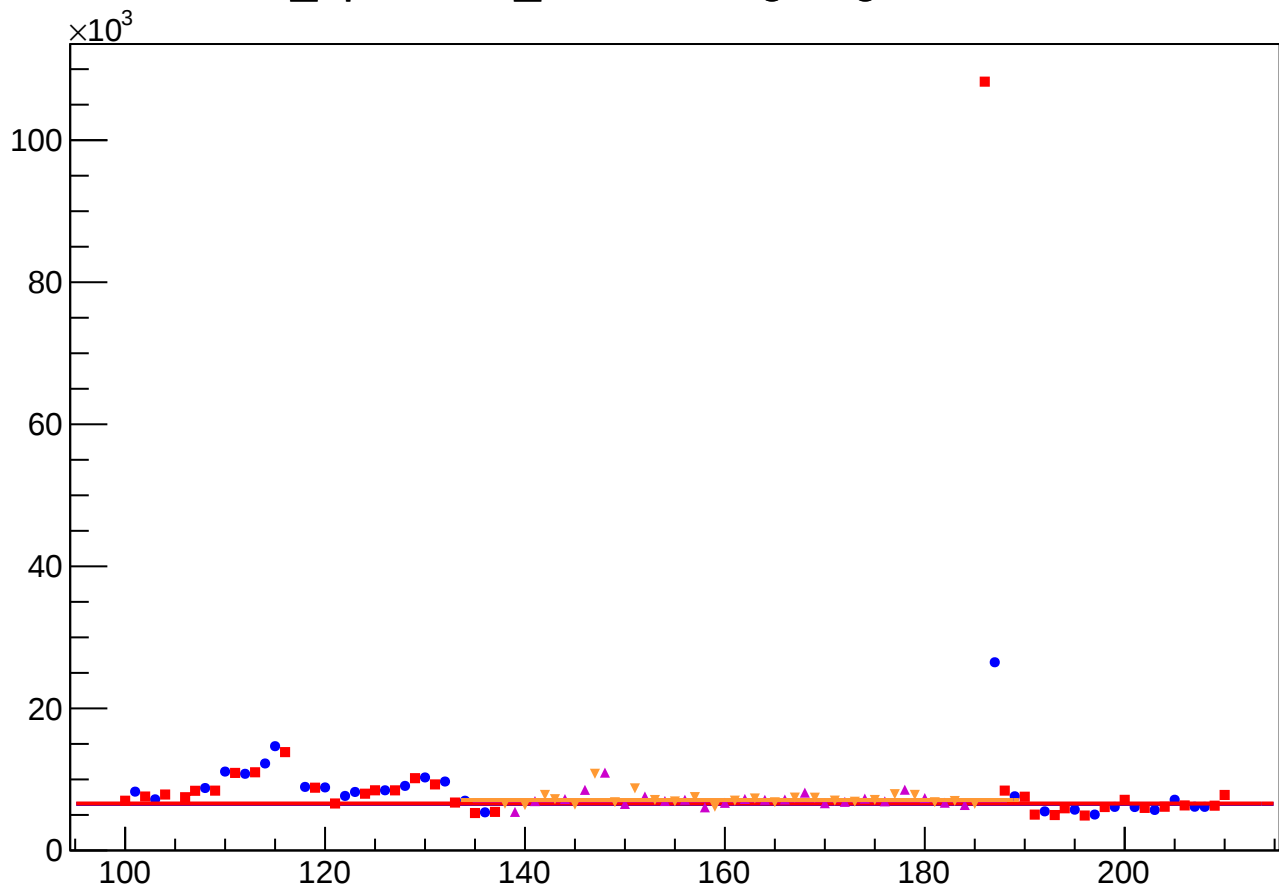
Right: -1.542 $\pm$ 1.230 χ^2/NDF : 64.0/60

In: -0.271 $\pm$ 1.232 χ^2/NDF : 63.4/50

Out: -0.066 $\pm$ 1.189 χ^2/NDF : 62.4/57

All: -0.165 $\pm$ 0.855 χ^2/NDF : 125.8/108

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6547.334 $\pm$ 1.263 χ^2/NDF : 1534532.6/27

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6606.976 $\pm$ 1.200 χ^2/NDF : 2143821.5/32

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

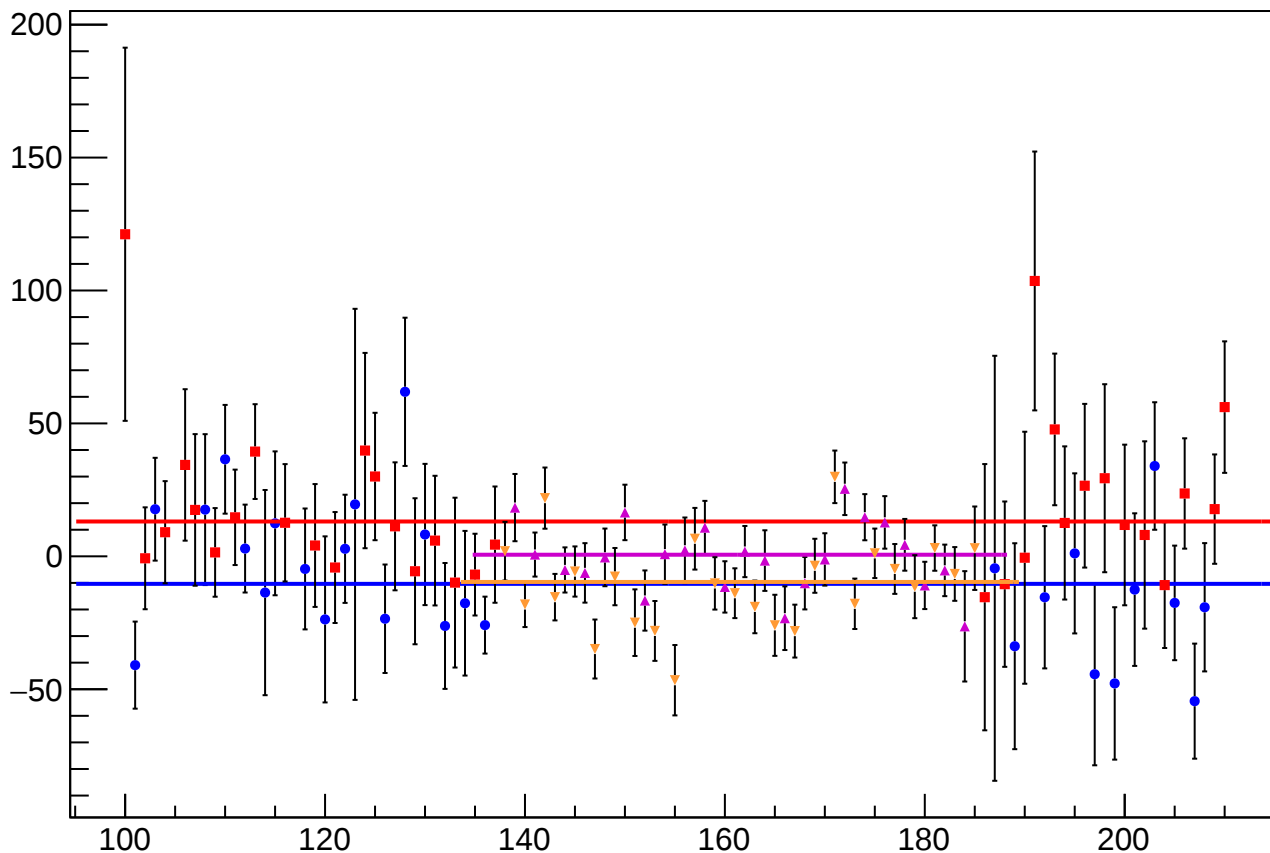
Right: 6578.693 $\pm$ 0.870 χ^2/NDF : 3679525.7/60

In: 6802.494 $\pm$ 0.871 χ^2/NDF : 2153308.8/50

Out: 6857.360 $\pm$ 0.841 χ^2/NDF : 2611889.4/57

All: 6830.904 $\pm$ 0.605 χ^2/NDF : 4767252.3/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.357 $\pm$ 4.360 χ^2/NDF : 35.3/27

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 13.103 $\pm$ 4.253 χ^2/NDF : 21.7/32

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

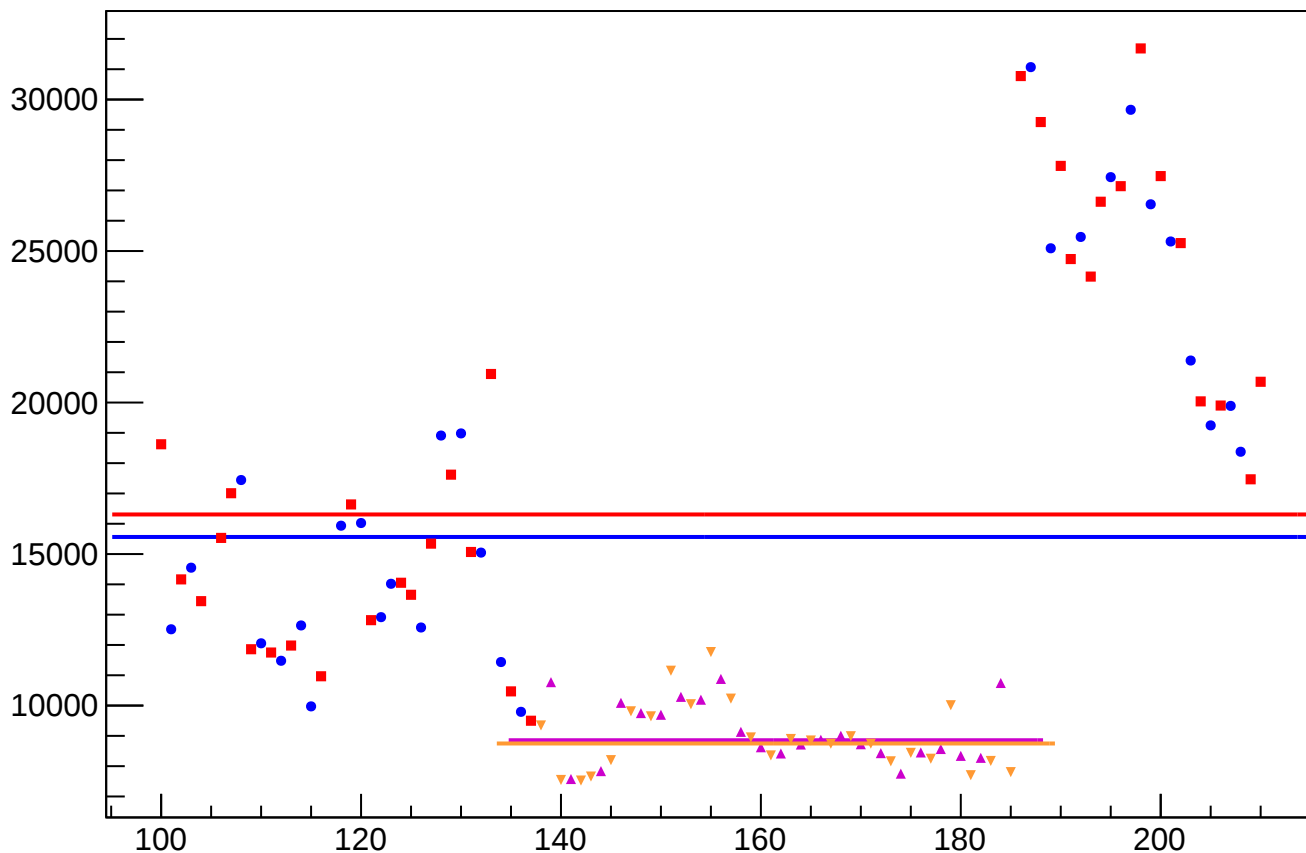
Right: 1.664 $\pm$ 3.045 χ^2/NDF : 71.8/60

In: -1.520 $\pm$ 1.917 χ^2/NDF : 70.0/50

Out: -5.328 $\pm$ 1.852 χ^2/NDF : 102.5/57

All: -3.490 $\pm$ 1.332 χ^2/NDF : 174.6/108

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15564.038 $\pm$ 3.083 χ^2 /NDF: 3056777.1/27

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 16306.631 $\pm$ 3.008 χ^2 /NDF: 3512418.1/32

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

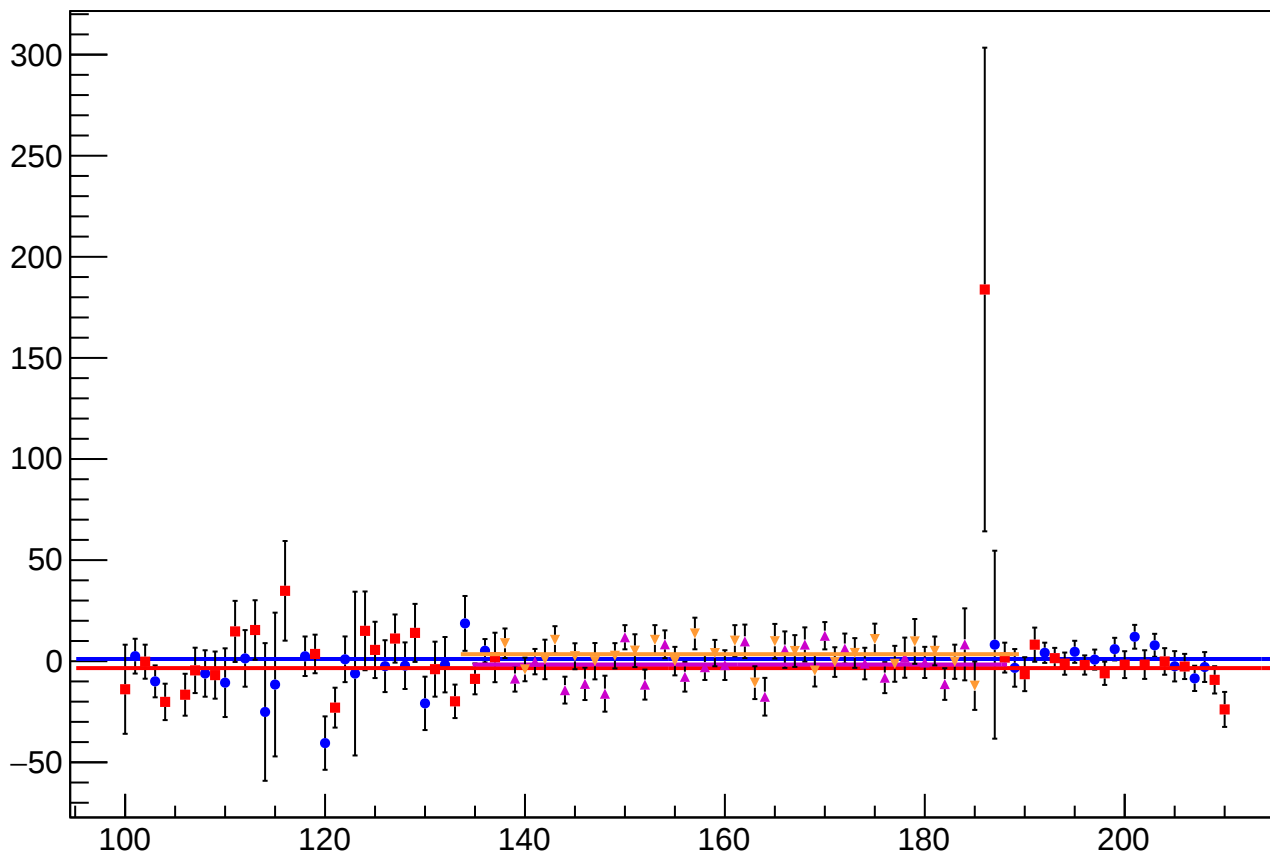
Right: 15944.544 $\pm$ 2.153 χ^2 /NDF: 6598921.0/60

In: 10153.014 $\pm$ 1.356 χ^2 /NDF:7243103.2/50

Out: 10181.396 $\pm$ 1.310 χ^2 /NDF:9093965.4/57

All: 10167.698 $\pm$ 0.942 χ^2 /NDF: 16337295.3

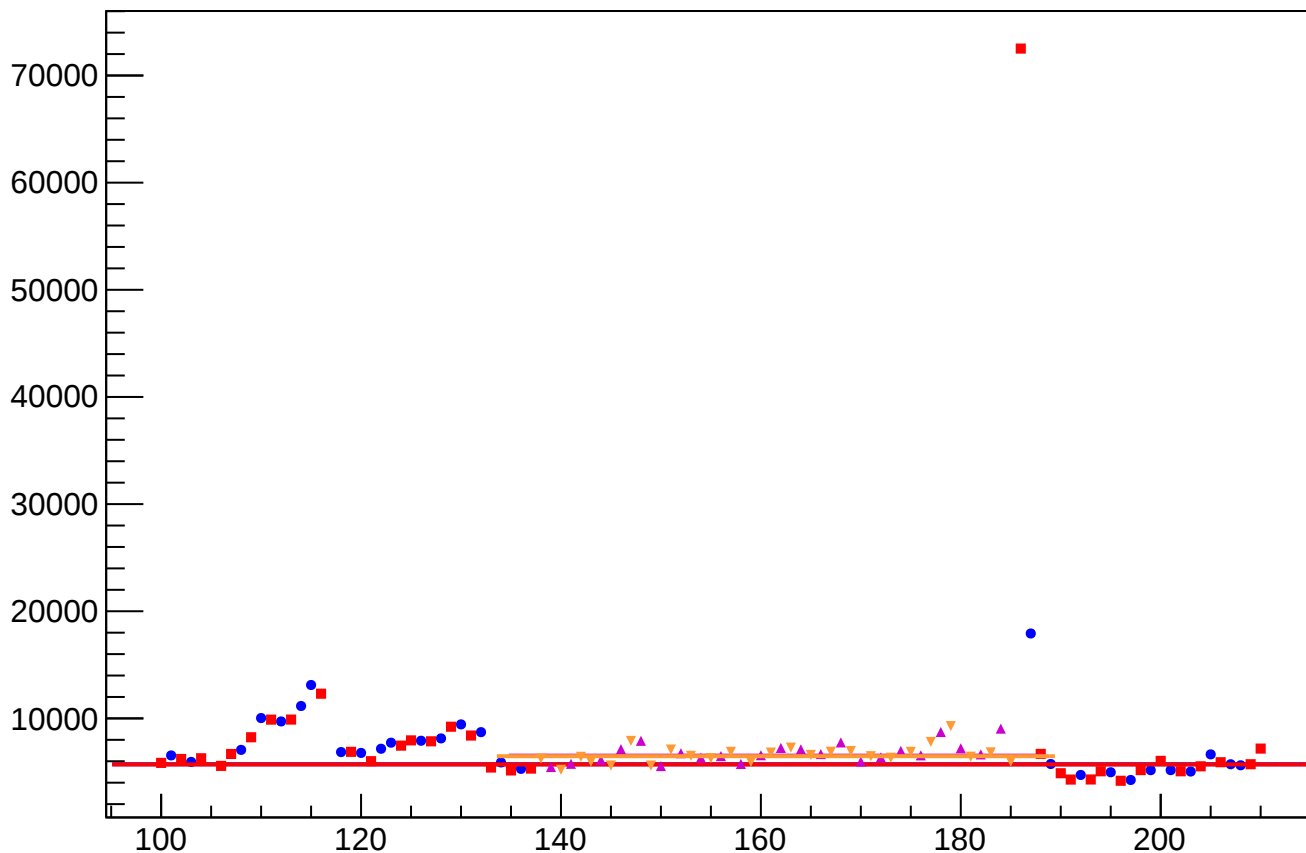
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.096 ± 1.558 χ^2/NDF : 28.3/27
Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24
Right Out: -3.408 ± 1.461 χ^2/NDF : 37.4/32
Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47
Right: -1.300 ± 1.066 χ^2/NDF : 70.2/60
In: -0.254 ± 1.109 χ^2/NDF : 63.5/50
Out: -0.112 ± 1.055 χ^2/NDF : 63.8/57
All: -0.180 ± 0.764 χ^2/NDF : 127.4/108

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5718.580+/-1.102

χ^2/NDF : 1493286.9/27

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

Left Out: 6471.976+/-1.078

χ^2/NDF : 490282.9/24

Right: 5710.117+/-0.754 χ^2/NDF : 3677415.0/60

Right Out: 5702.675+/-1.033

χ^2/NDF : 2184017.3/32

In: 6115.250+/-0.784 χ^2/NDF : 2235811.4/50

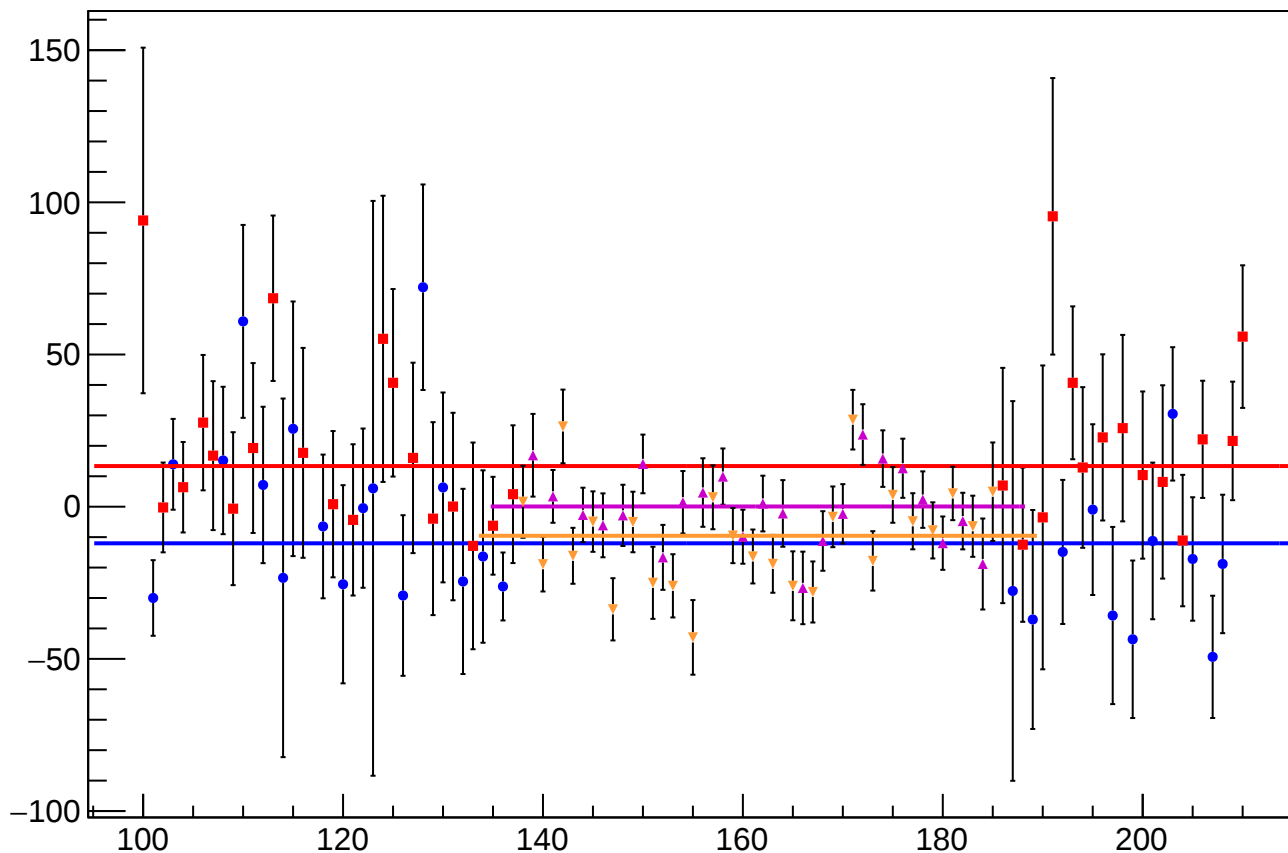
Out: 6071.101+/-0.746 χ^2/NDF : 2939757.4/57

Left In: 6521.975+/-1.116

χ^2/NDF : 480034.7/22

All: 6092.078+/-0.540 χ^2/NDF : 5177233.3/10

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.029 ± 4.417 $\chi^2/\text{NDF}: 32.6/27$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 13.352 ± 4.345 $\chi^2/\text{NDF}: 24.0/32$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

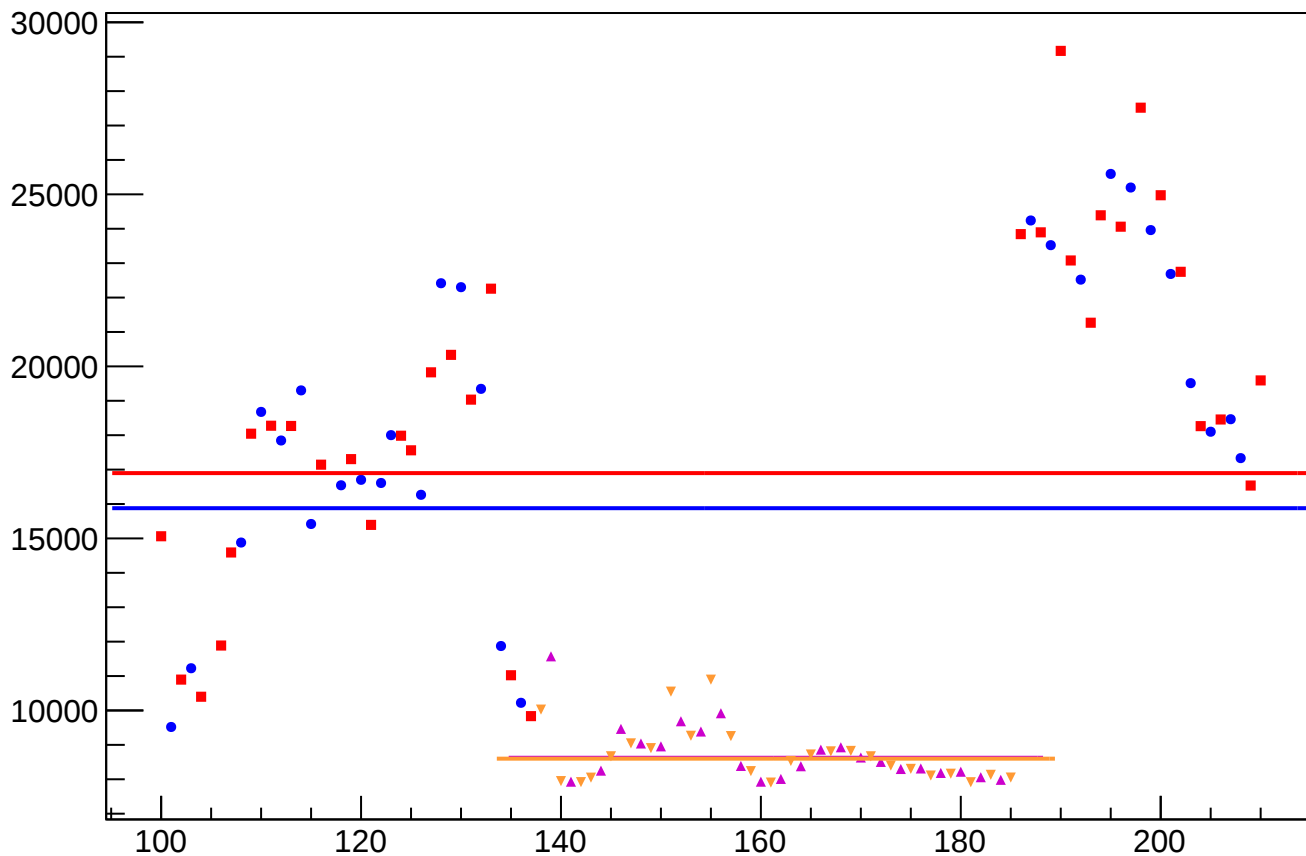
Right: 0.870 ± 3.098 $\chi^2/\text{NDF}: 73.4/60$

In: -2.112 ± 1.876 $\chi^2/\text{NDF}: 68.5/50$

Out: -5.511 ± 1.826 $\chi^2/\text{NDF}: 106.5/57$

All: -3.858 ± 1.308 $\chi^2/\text{NDF}: 176.7/108$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15878.551 $\pm$ 3.123 χ^2 /NDF: 2685802.3/27

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 16898.179 $\pm$ 3.072 χ^2 /NDF: 2685271.7/32

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

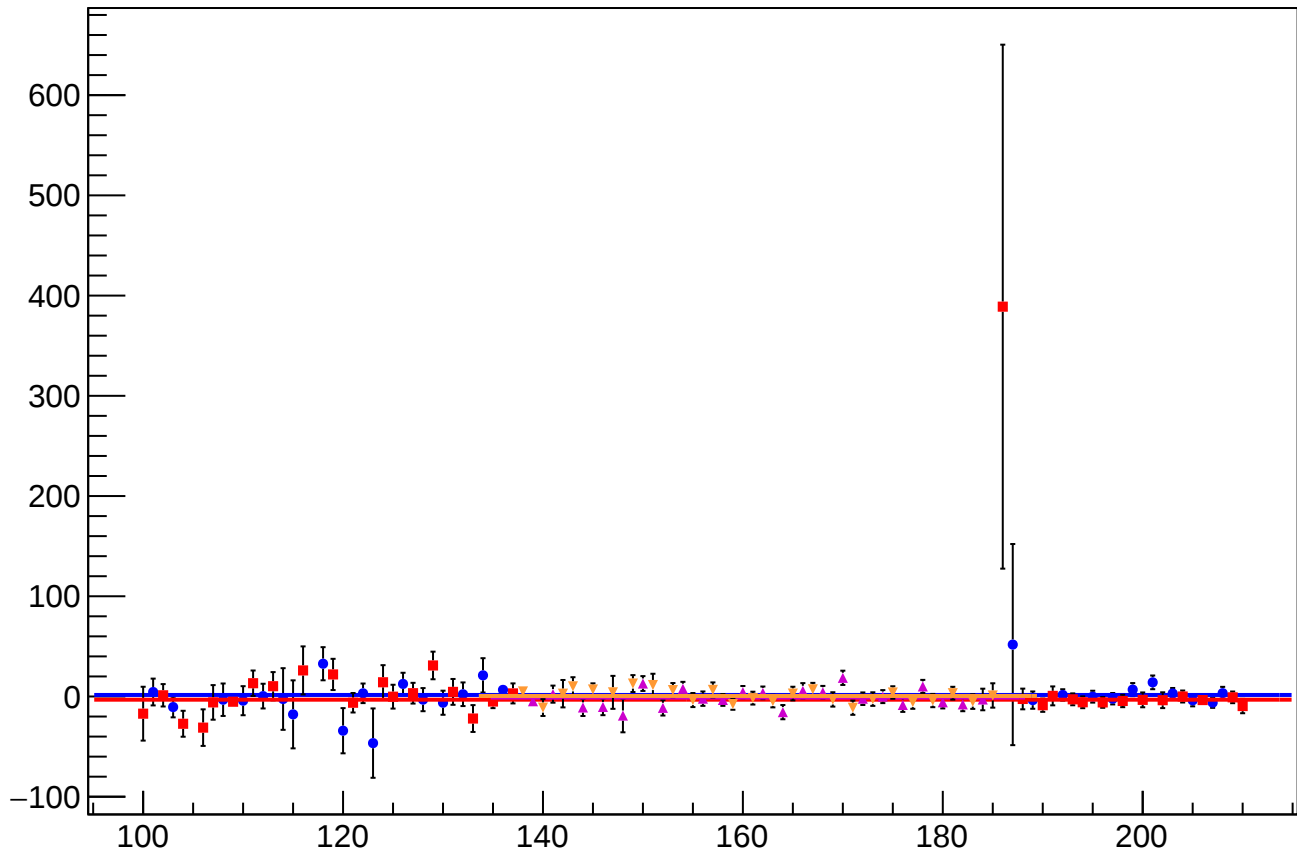
Right: 16396.757 $\pm$ 2.190 χ^2 /NDF: 5425234.1/60

In: 9934.120 $\pm$ 1.327 χ^2 /NDF: 7342708.5/50

Out: 10064.002 $\pm$ 1.291 χ^2 /NDF: 8942714.5/57

All: 10000.844 $\pm$ 0.925 χ^2 /NDF: 16290345.7

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.530 ± 1.578 $\chi^2/\text{NDF}: 22.4/27$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.185 ± 1.444 $\chi^2/\text{NDF}: 28.5/32$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

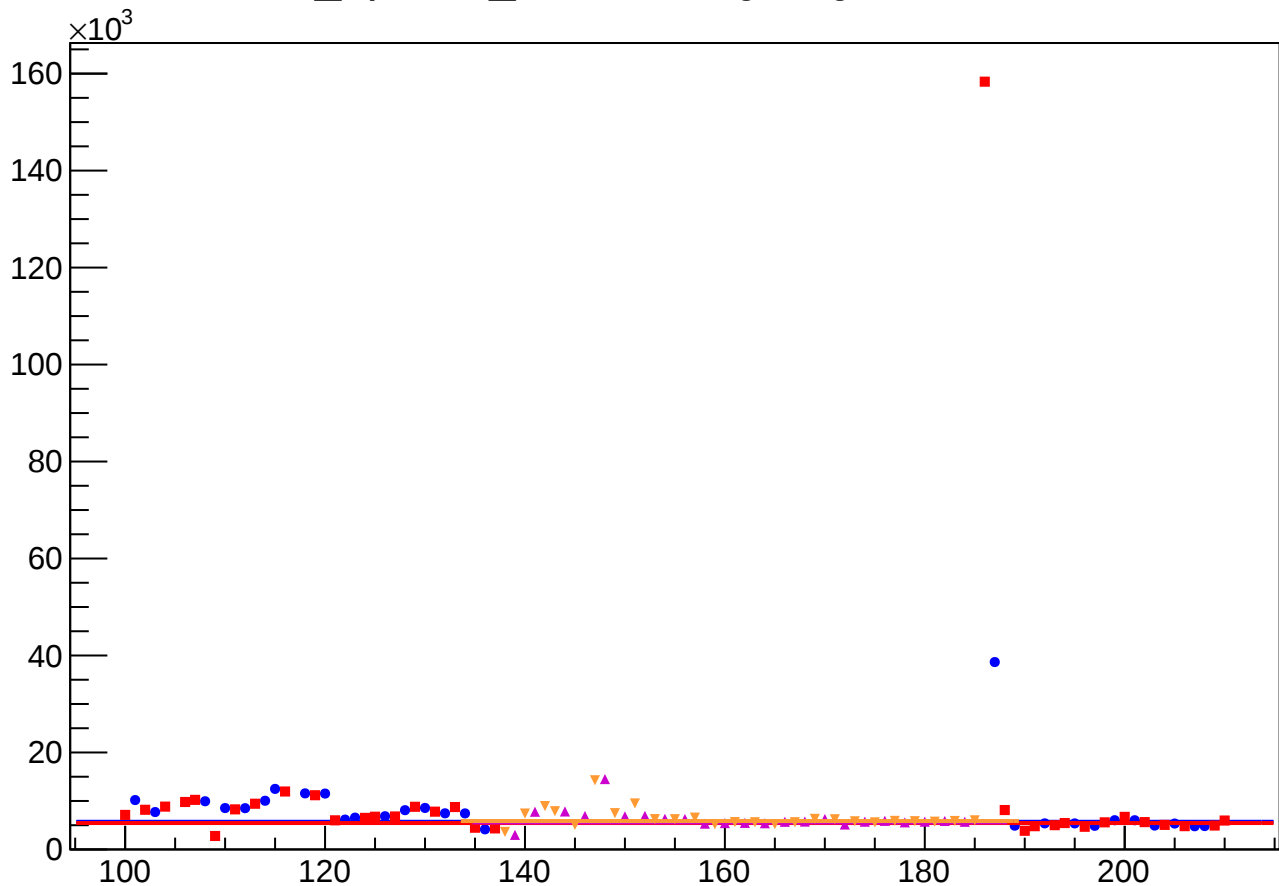
Right: -1.036 ± 1.065 $\chi^2/\text{NDF}: 55.8/60$

In: 0.083 ± 1.045 $\chi^2/\text{NDF}: 56.5/50$

Out: -1.295 ± 1.012 $\chi^2/\text{NDF}: 51.4/57$

All: -0.628 ± 0.727 $\chi^2/\text{NDF}: 108.7/108$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5708.390 $\pm$ 1.116 χ^2/NDF : 2095885.4/27

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5447.707 $\pm$ 1.021 χ^2/NDF : 3461912.9/32

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

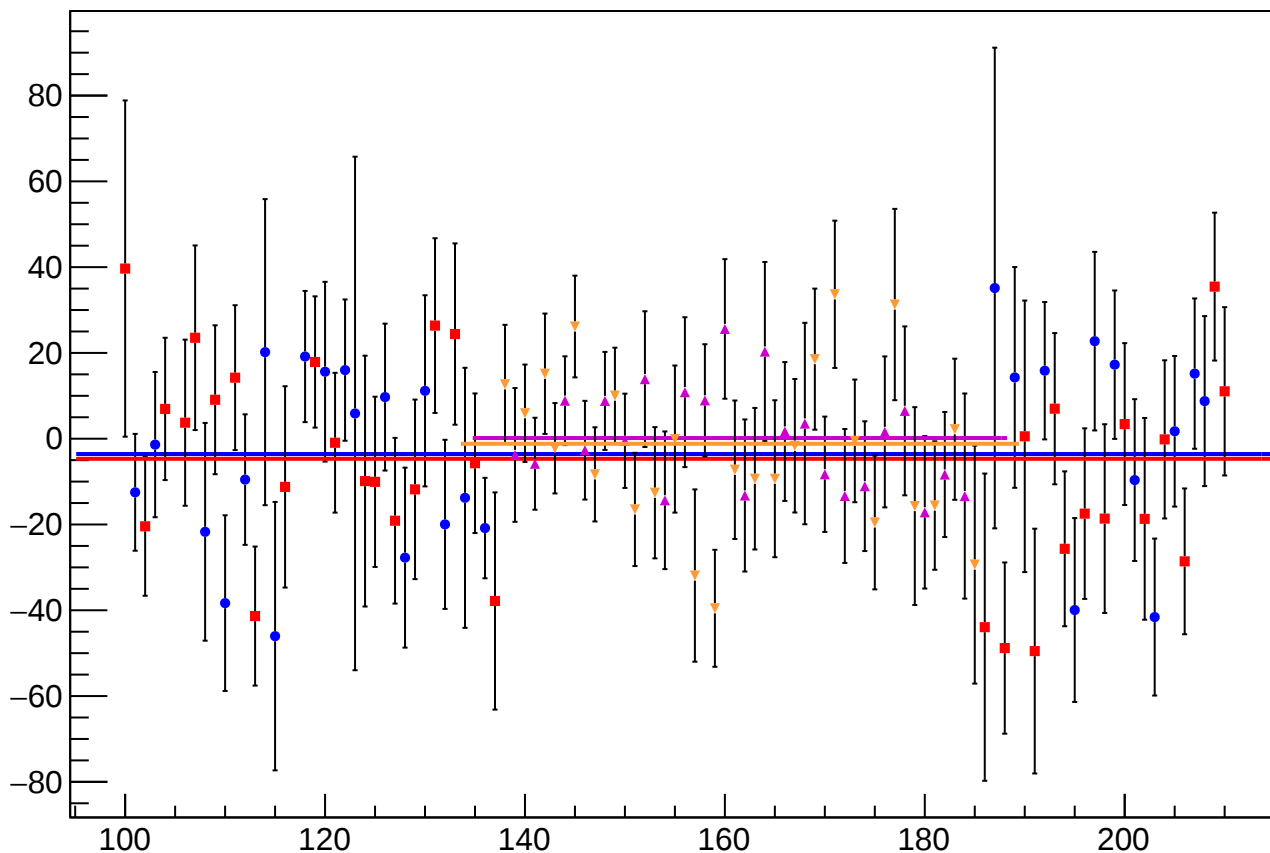
Right: 5566.536 $\pm$ 0.753 χ^2/NDF : 5587513.0/60

In: 5631.497 $\pm$ 0.739 χ^2/NDF : 4267142.4/50

Out: 5657.953 $\pm$ 0.715 χ^2/NDF : 5235235.2/57

All: 5645.158 $\pm$ 0.514 χ^2/NDF : 9503039.2/100

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.571 ± 3.615 χ^2/NDF : 30.5/27

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -4.683 ± 3.421 χ^2/NDF : 40.5/32

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

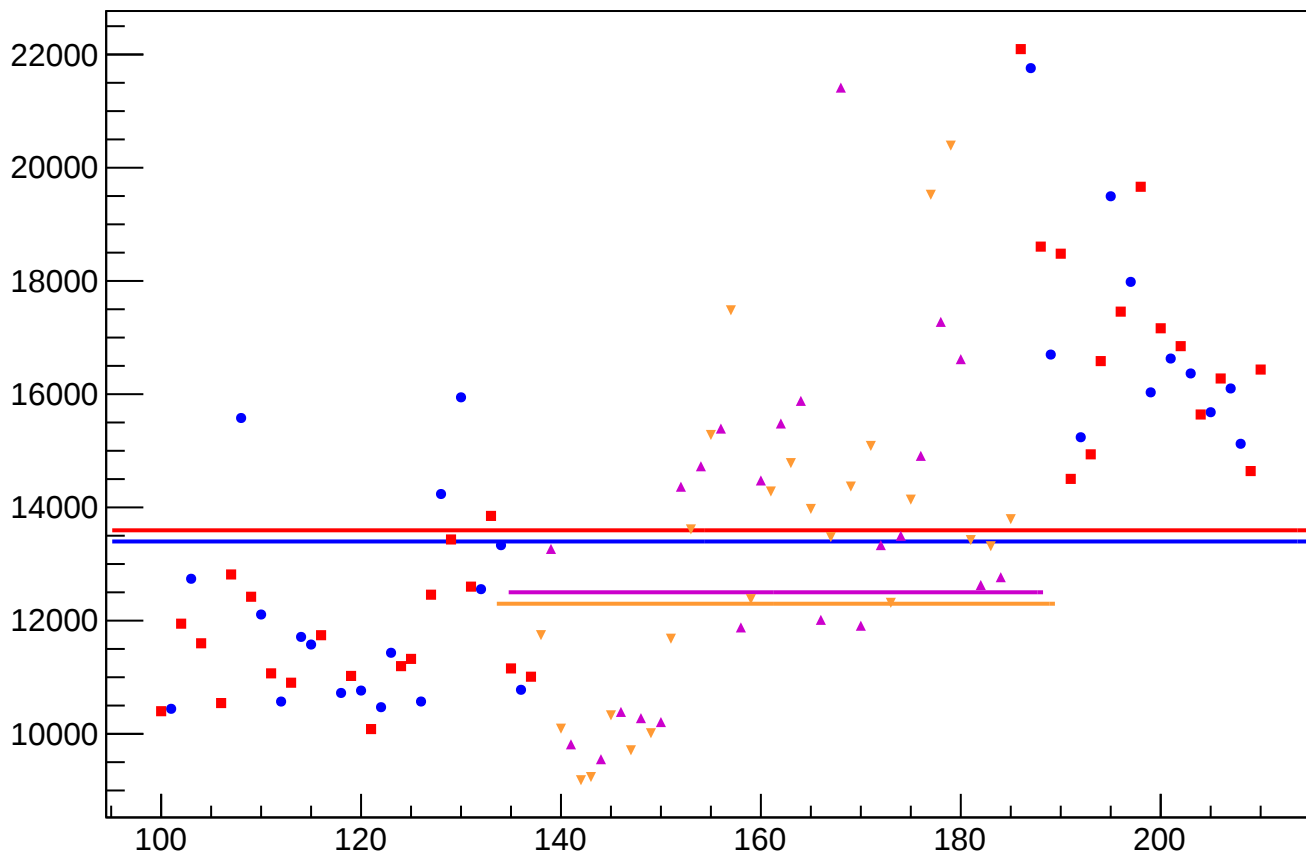
Right: -4.158 ± 2.485 χ^2/NDF : 71.0/60

In: -1.398 ± 2.335 χ^2/NDF : 42.6/50

Out: -2.669 ± 2.229 χ^2/NDF : 74.8/57

All: -2.063 ± 1.612 χ^2/NDF : 117.6/108

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13398.331 $\pm$ 2.556

χ^2/NDF : 1162937.1/27

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13502.331 $\pm$ 1.757 χ^2/NDF : 2485727.0/60

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12875.126 $\pm$ 1.651 χ^2/NDF : 2592680.6/50

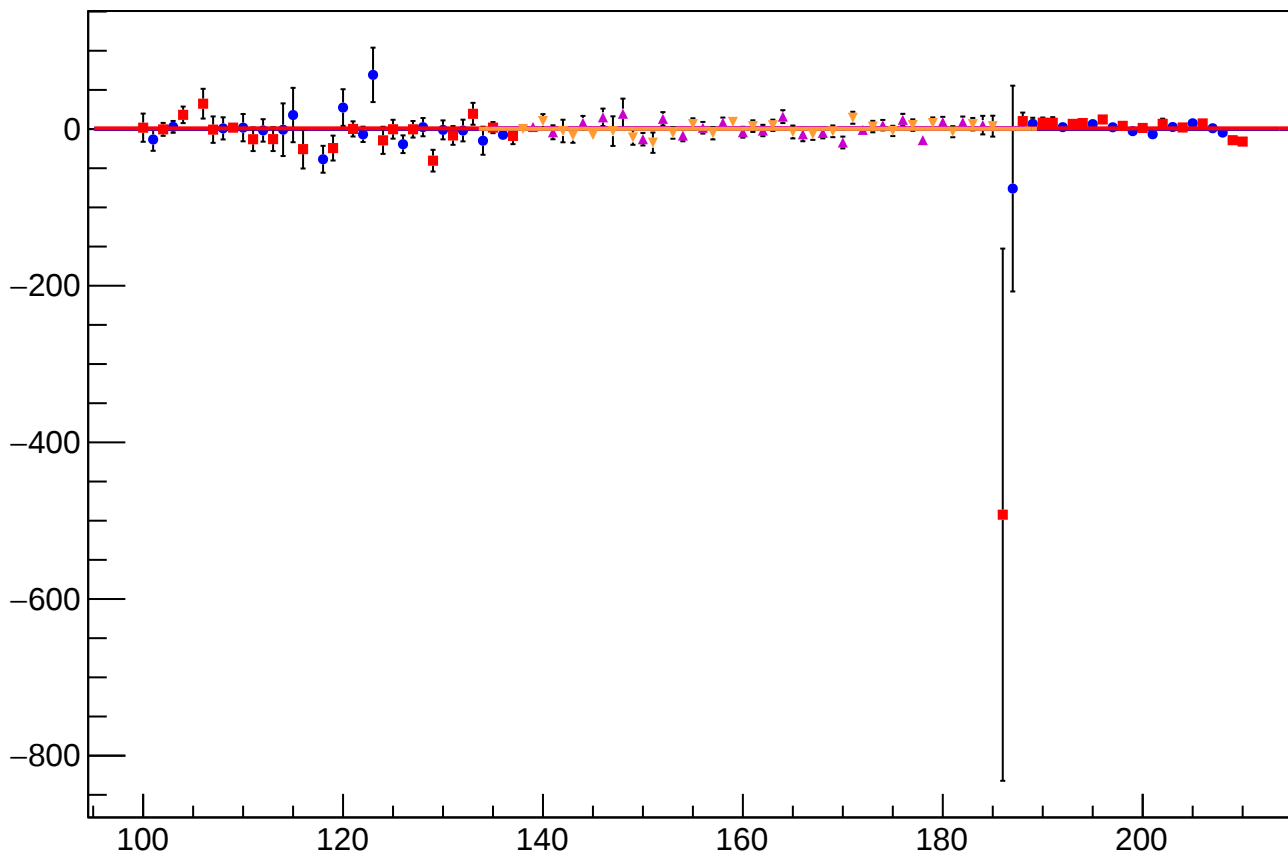
Right Out: 13595.448 $\pm$ 2.419 χ^2/NDF : 1319653.1/32

Out: 12849.317 $\pm$ 1.576 χ^2/NDF : 2991031.4/57

Left In: 12500.795 $\pm$ 2.162 χ^2/NDF : 1357889.1/22

All: 12861.625 $\pm$ 1.140 χ^2/NDF : 5583839.9/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.152 ± 1.344 $\chi^2/\text{NDF}: 27.8/27$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 0.890 ± 1.231 $\chi^2/\text{NDF}: 67.7/32$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

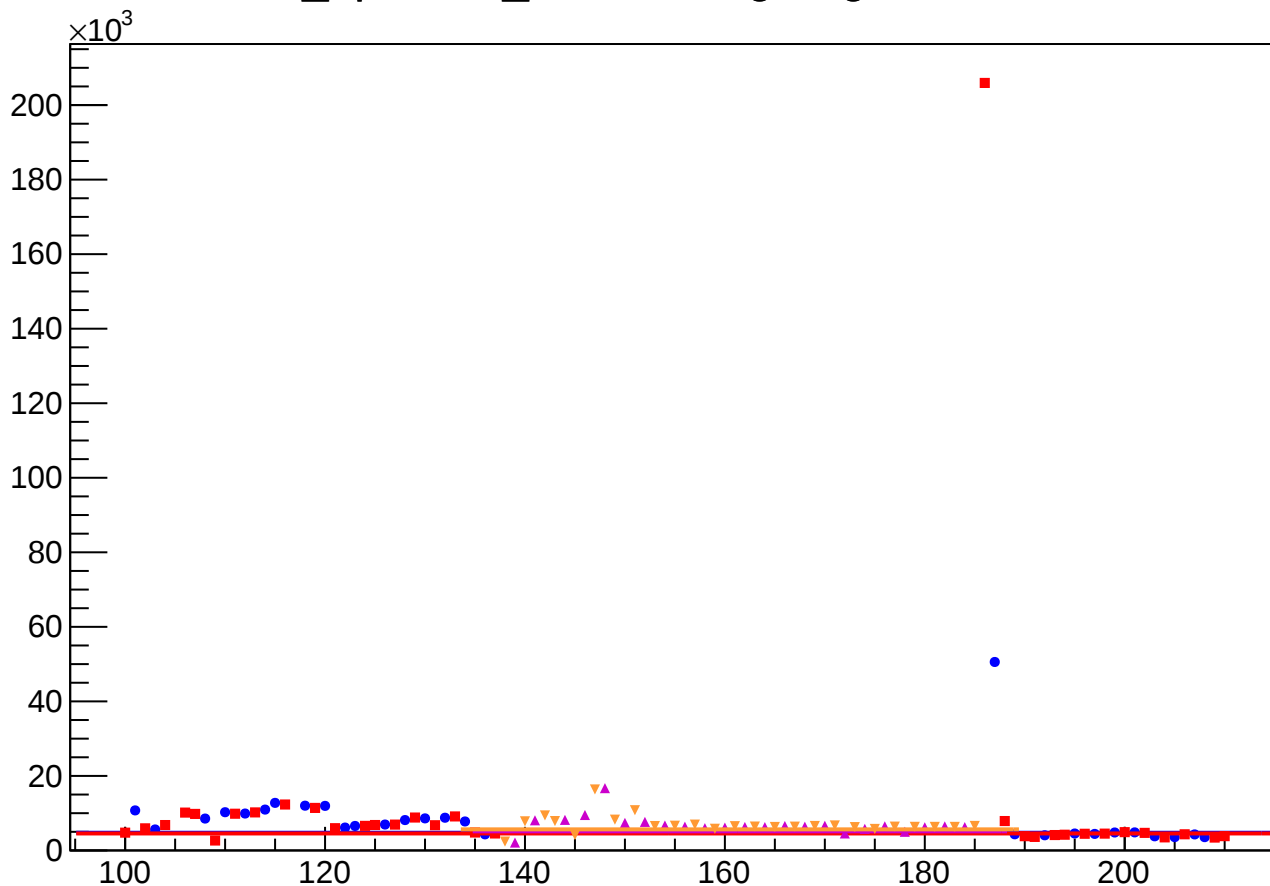
Right: 0.553 ± 0.908 $\chi^2/\text{NDF}: 95.6/60$

In: 0.648 ± 0.960 $\chi^2/\text{NDF}: 61.7/50$

Out: 0.662 ± 0.934 $\chi^2/\text{NDF}: 86.9/57$

All: 0.655 ± 0.669 $\chi^2/\text{NDF}: 148.5/108$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4750.068 $\pm$ 0.950 χ^2/NDF : 3158356.5/27

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4560.503 $\pm$ 0.871 χ^2/NDF : 3958886.0/32

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

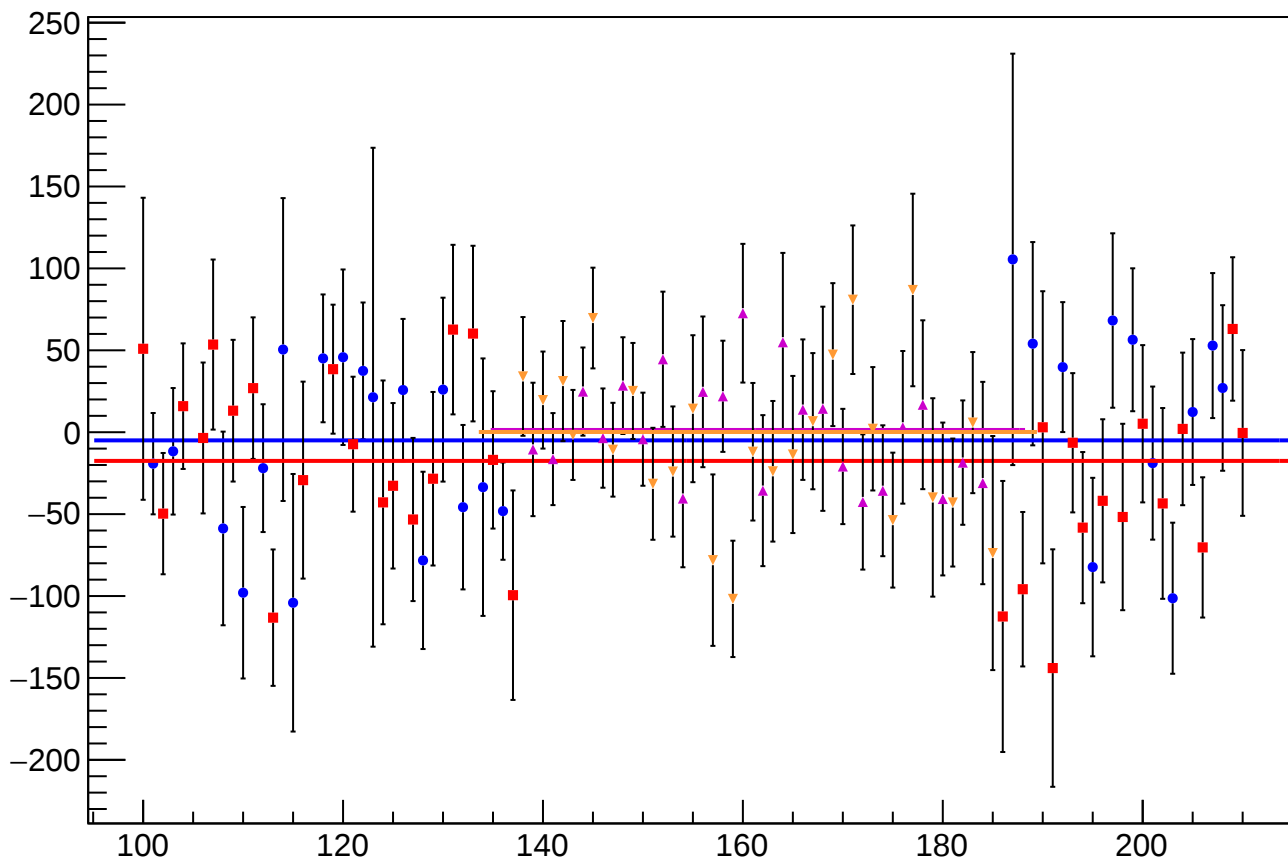
Right: 4646.998 $\pm$ 0.642 χ^2/NDF : 7138871.0/60

In: 4940.031 $\pm$ 0.679 χ^2/NDF : 8735494.6/50

Out: 5027.117 $\pm$ 0.660 χ^2/NDF : 8763876.5/57

All: 4984.765 $\pm$ 0.473 χ^2/NDF : 17507826.5/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.979 $\pm$ 9.011 χ^2/NDF : 31.1/27

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF :31.3/24

Right Out: -17.508 $\pm$ 8.540 χ^2/NDF : 34.2/32

Left In: 1.374 $\pm$ 7.990 χ^2/NDF :13.3/22

Left: 0.734 $\pm$ 5.538 χ^2/NDF : 44.6/47

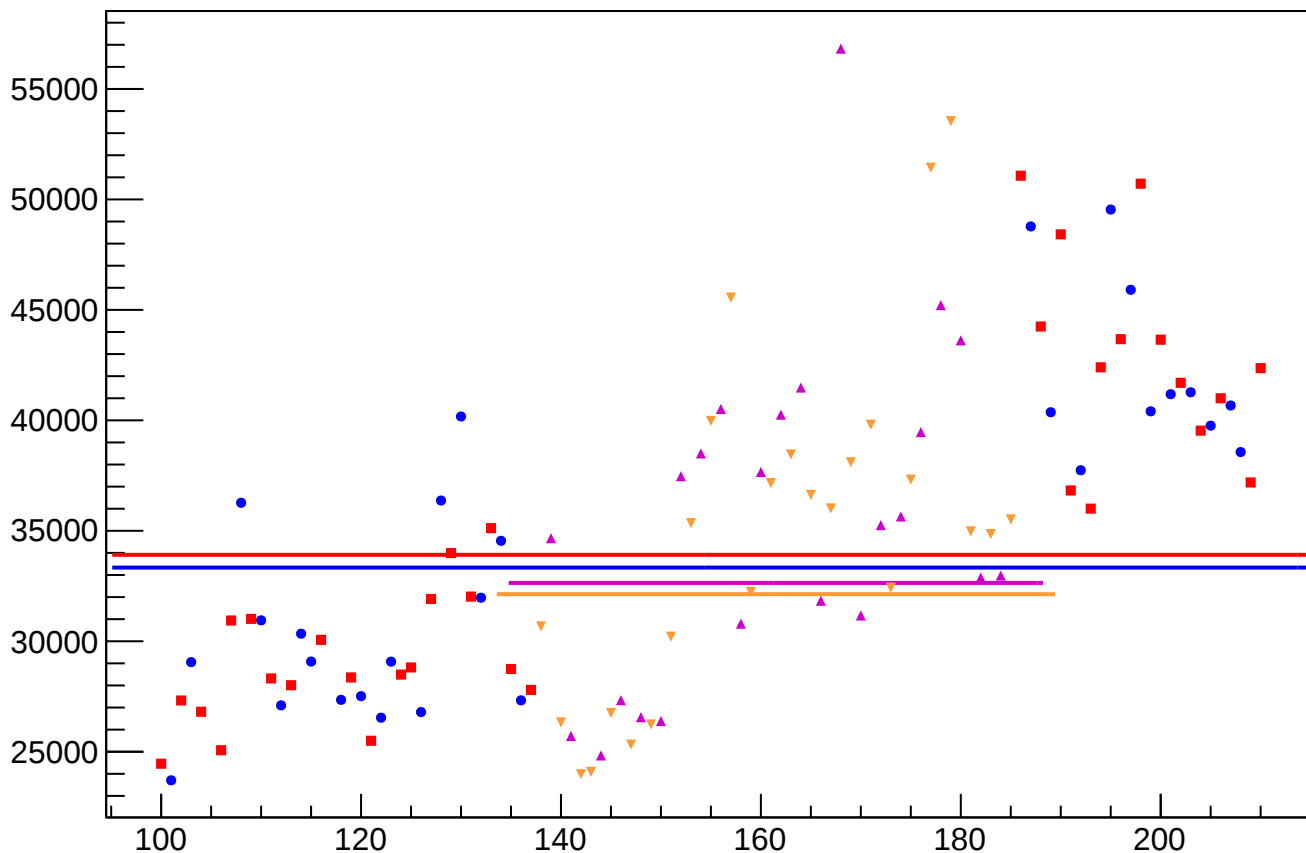
Right: -11.579 $\pm$ 6.198 χ^2/NDF : 66.2/60

In: -1.423 $\pm$ 5.978 χ^2/NDF :44.6/50

Out: -7.753 $\pm$ 5.712 χ^2/NDF :67.8/57

All: -4.732 $\pm$ 4.130 χ^2/NDF : 113.0/108

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33336.240+/-6.371

χ^2/NDF : 1232571.3/27

Left: 32376.774+/-3.916

χ^2/NDF : 2946456.2/47

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right: 33640.422+/-4.383

χ^2/NDF : 2610279.5/60

Right Out: 33913.683+/-6.039

χ^2/NDF : 1373381.3/32

In: 32947.137+/-4.227

χ^2/NDF : 2641396.0/50

Out: 32929.155+/-4.039

χ^2/NDF : 2961551.8/57

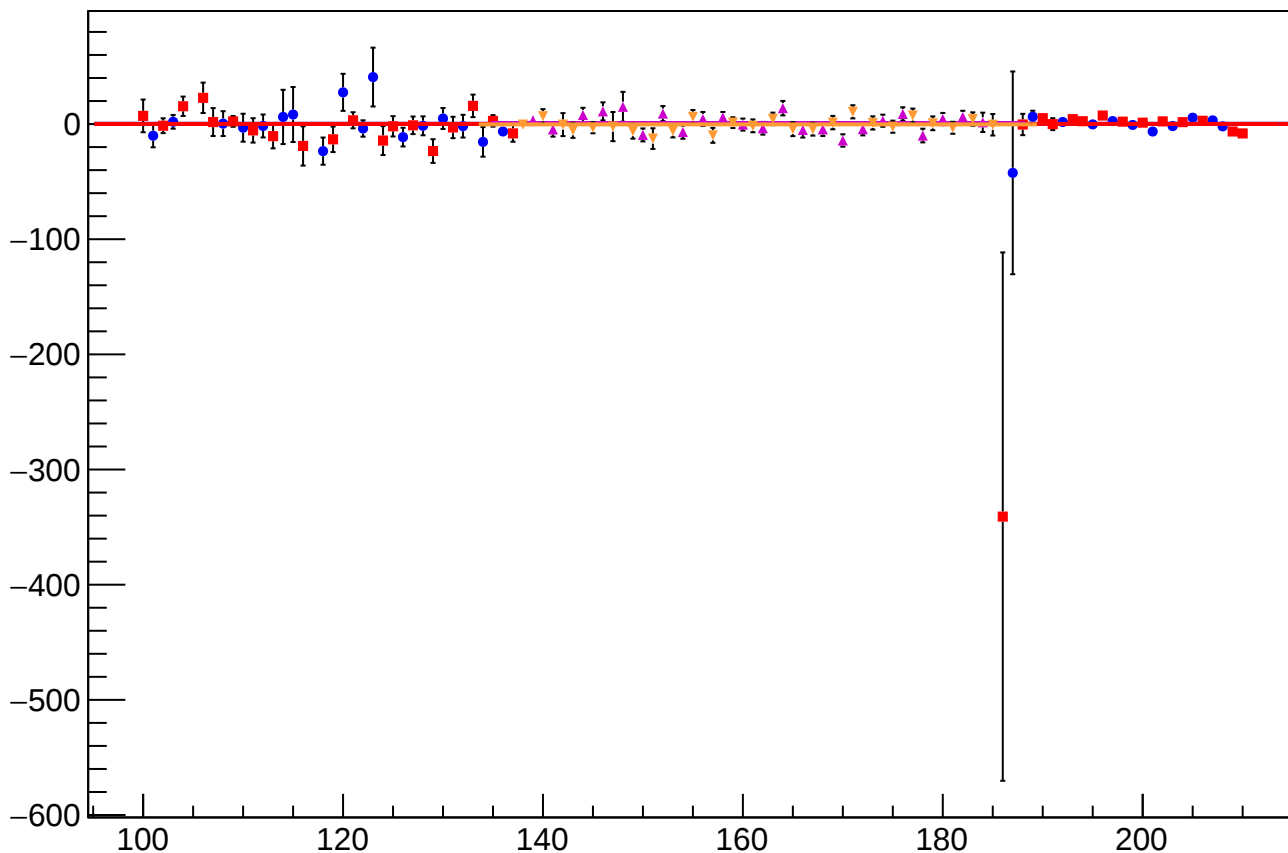
Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 32937.736+/-2.920

χ^2/NDF : 5602957.2/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.820 $\chi^2/\text{NDF}: 34.2/27$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: 0.133 ± 0.780 $\chi^2/\text{NDF}: 55.7/32$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

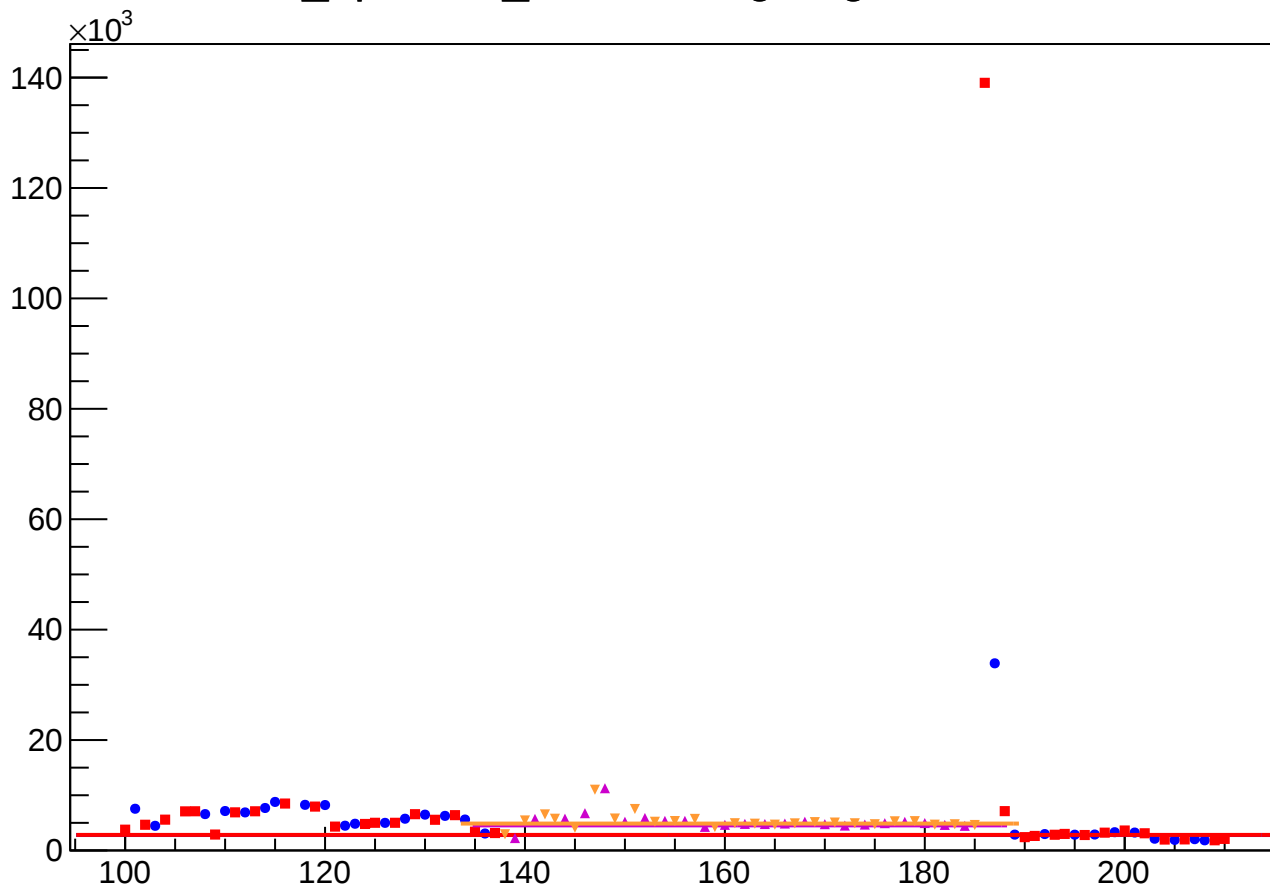
Right: 0.171 ± 0.565 $\chi^2/\text{NDF}: 90.0/60$

In: 0.449 ± 0.666 $\chi^2/\text{NDF}: 70.6/50$

Out: -0.004 ± 0.649 $\chi^2/\text{NDF}: 73.5/57$

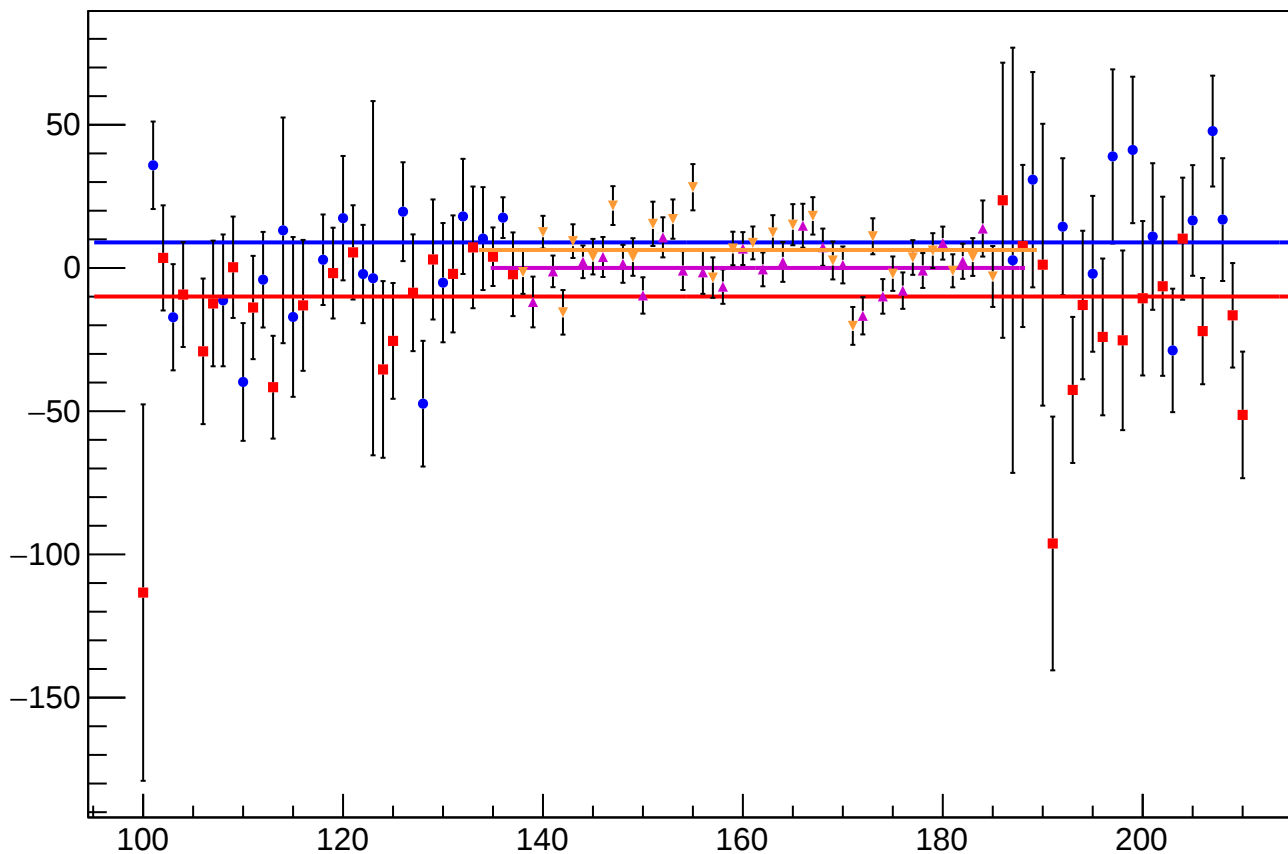
All: 0.217 ± 0.465 $\chi^2/\text{NDF}: 144.4/108$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2795.956 $\pm$ 0.580	χ^2/NDF : 4894224.2/27	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: 2806.348 $\pm$ 0.399	χ^2/NDF : 10606704.8/60
Right Out: 2815.751 $\pm$ 0.551	χ^2/NDF : 5711868.2/32	In: 3390.244 $\pm$ 0.471	χ^2/NDF : 10621917.3/50
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 3445.744 $\pm$ 0.459	χ^2/NDF : 11478152.1/57
		All: 3418.704 $\pm$ 0.329	χ^2/NDF : 22107193.6/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.934 ± 3.589 χ^2/NDF : 33.4/27

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -9.961 ± 3.619 χ^2/NDF : 24.7/32

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

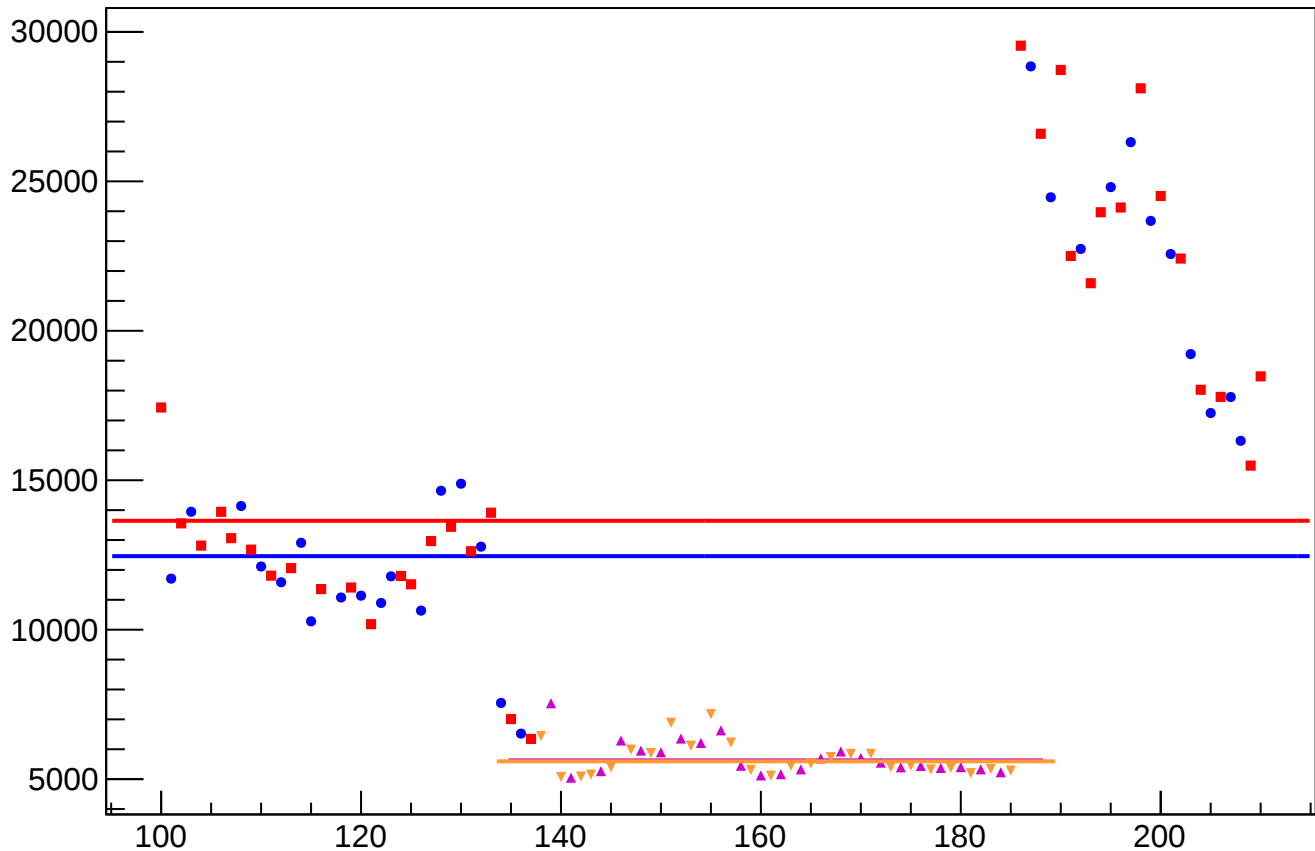
Right: -0.436 ± 2.548 χ^2/NDF : 71.8/60

In: 1.130 ± 1.266 χ^2/NDF : 68.7/50

Out: 4.411 ± 1.232 χ^2/NDF : 99.0/57

All: 2.815 ± 0.883 χ^2/NDF : 171.2/108

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12460.459+/-2.538 χ^2/NDF : 4430063.8/27

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 13644.981+/-2.559 χ^2/NDF : 4500414.1/32

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

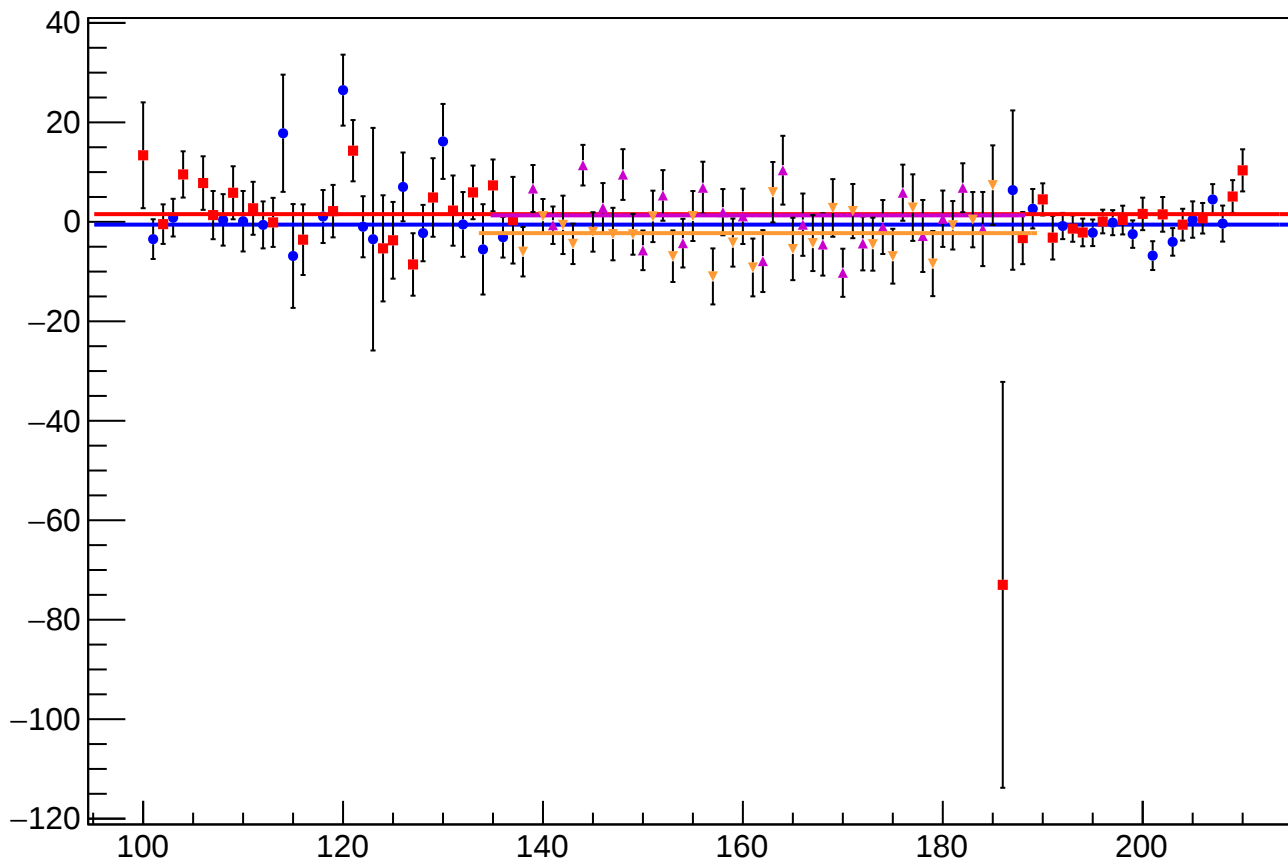
Right: 13047.860+/-1.802 χ^2/NDF : 9038511.1/60

In: 6477.644+/-0.895 χ^2/NDF : 11056948.1/50

Out: 6529.211+/-0.871 χ^2/NDF : 13532127.0/57

All: 6504.133+/-0.624 χ^2/NDF : 24590779.4/100

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.557 ± 0.778 χ^2/NDF : 35.6/27

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 1.548 ± 0.737 χ^2/NDF : 32.7/32

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

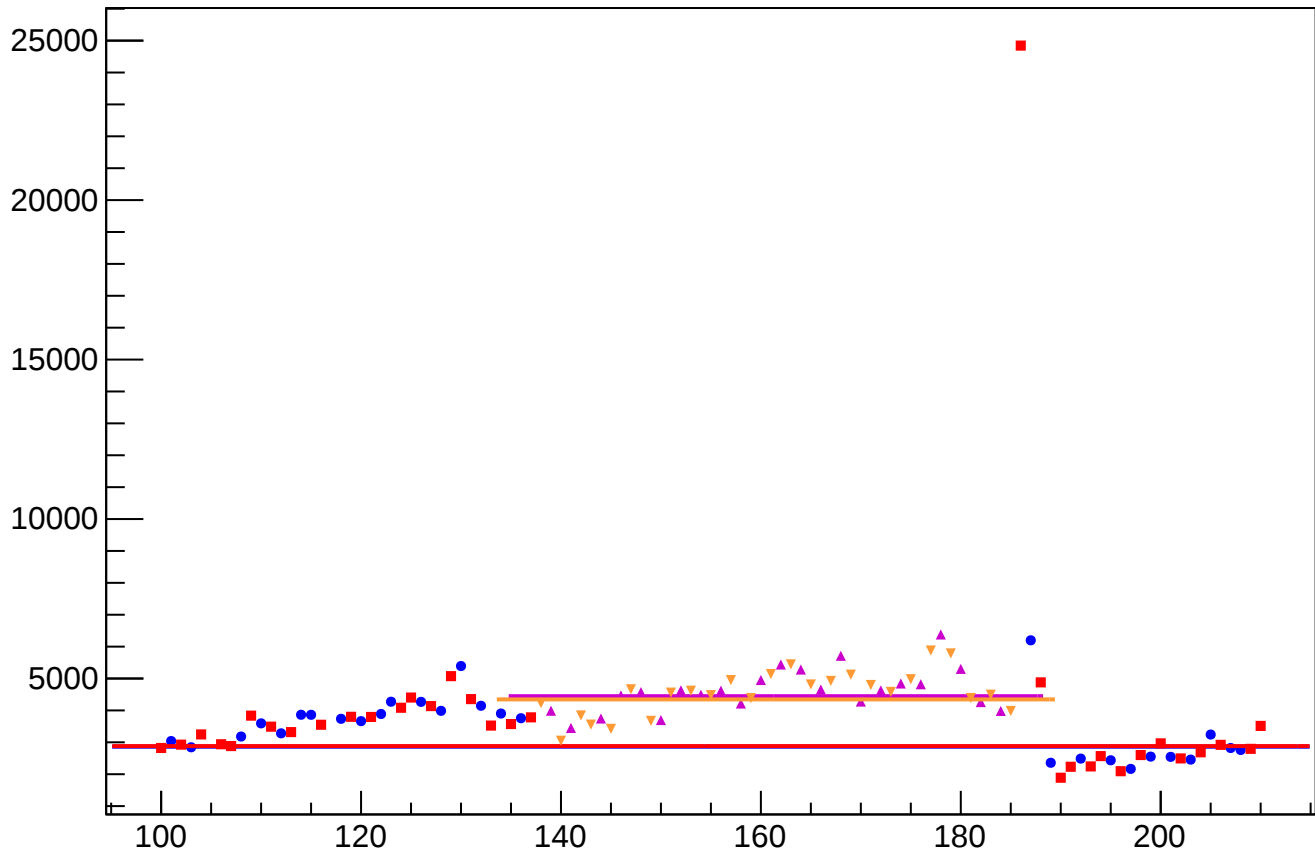
Right: 0.552 ± 0.535 χ^2/NDF : 72.1/60

In: 0.081 ± 0.631 χ^2/NDF : 68.4/50

Out: 0.255 ± 0.599 χ^2/NDF : 57.1/57

All: 0.172 ± 0.434 χ^2/NDF : 125.5/108

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2863.250+/-0.550 χ^2/NDF : 1295757.6/27

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2880.716+/-0.521 χ^2/NDF : 2311536.7/32

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

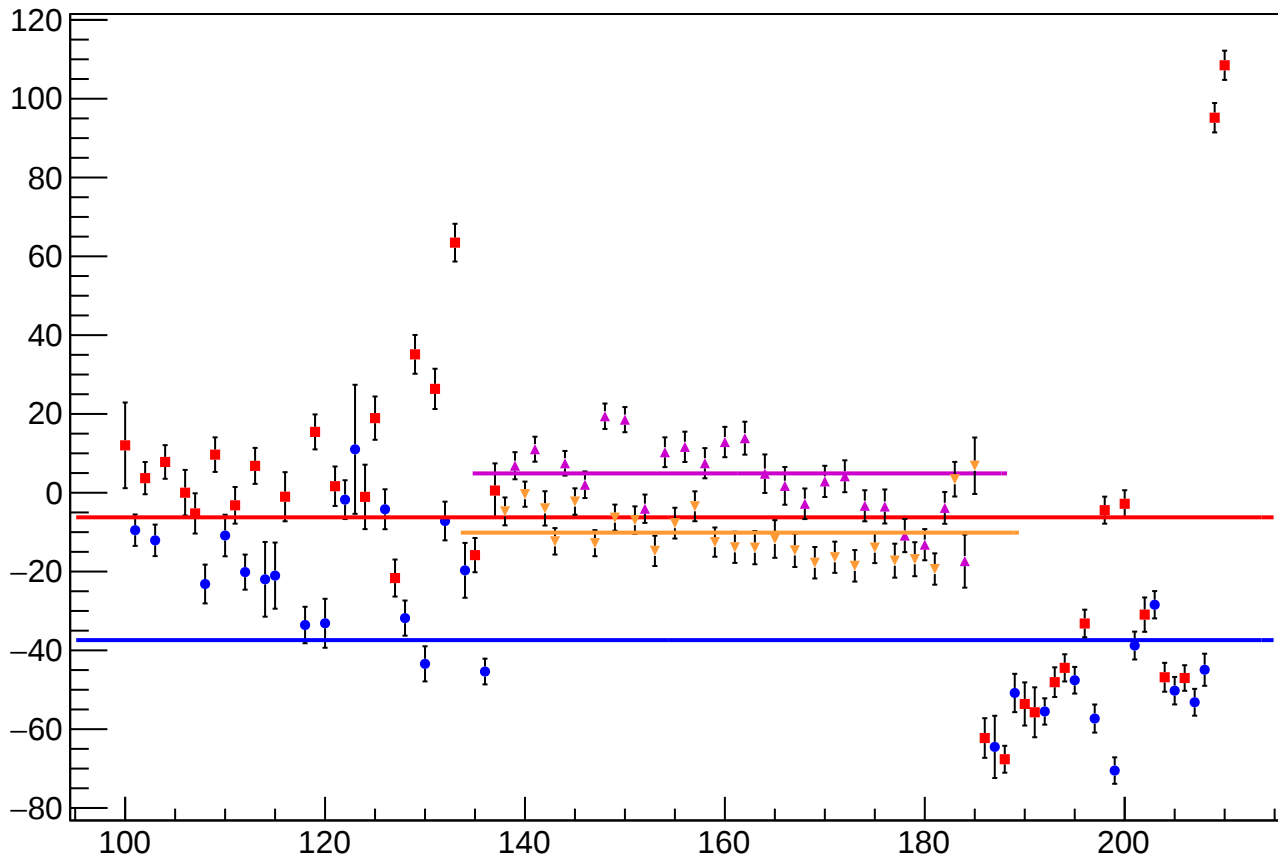
Right: 2872.454+/-0.378 χ^2/NDF : 3607825.5/60

In: 3405.983+/-0.446 χ^2/NDF : 4837343.7/50

Out: 3377.117+/-0.424 χ^2/NDF : 5988641.6/57

All: 3390.815+/-0.307 χ^2/NDF : 10828187.0/114

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.402 ± 0.820 χ^2/NDF : 534.7/27

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -6.237 ± 0.767 χ^2/NDF : 3330.4/32

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

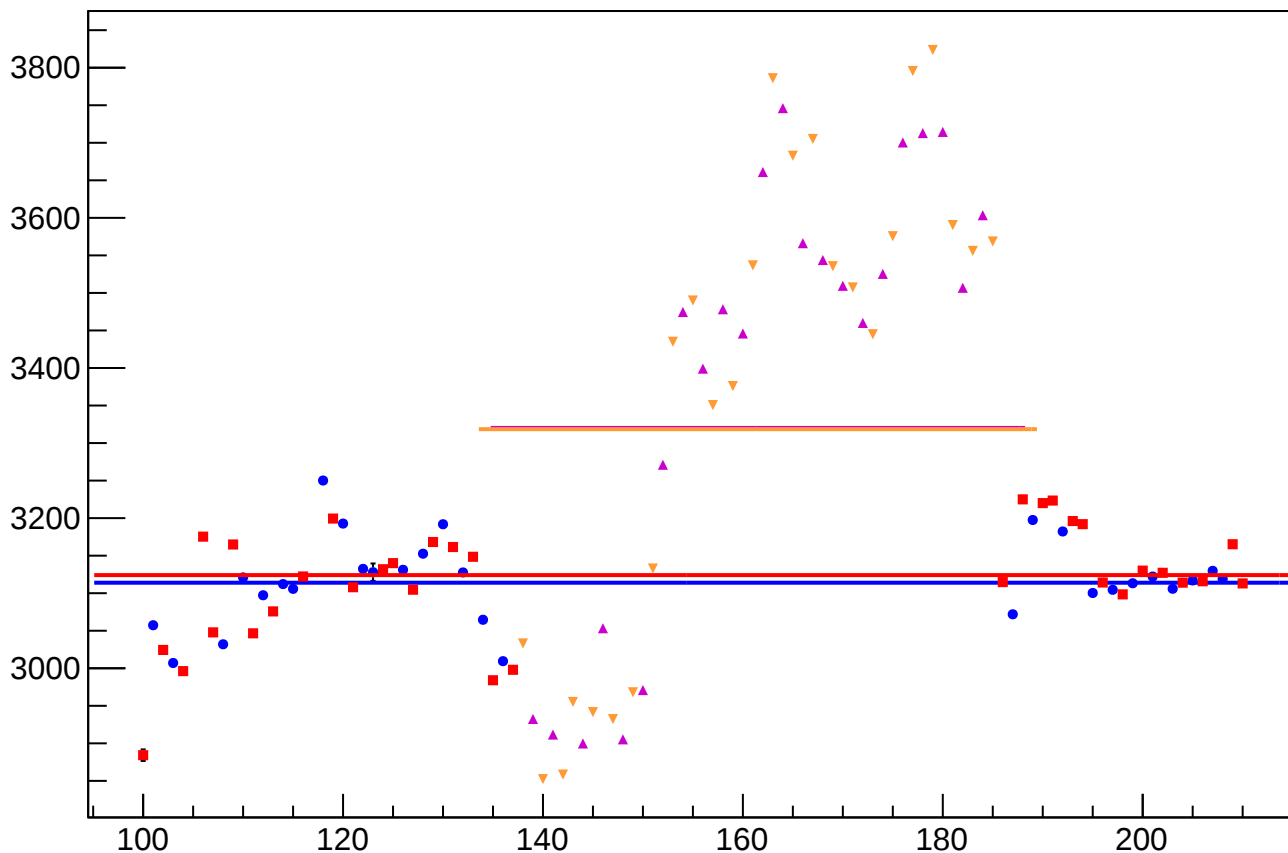
Right: -20.771 ± 0.560 χ^2/NDF : 4635.2/60

In: -15.638 ± 0.572 χ^2/NDF : 2031.0/50

Out: -8.159 ± 0.545 χ^2/NDF : 3411.1/57

All: -11.722 ± 0.395 χ^2/NDF : 5531.7/108

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.975 $\pm$ 0.580 χ^2 /NDF: 9050.3/27

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3124.100 $\pm$ 0.542 χ^2 /NDF: 14018.6/32

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

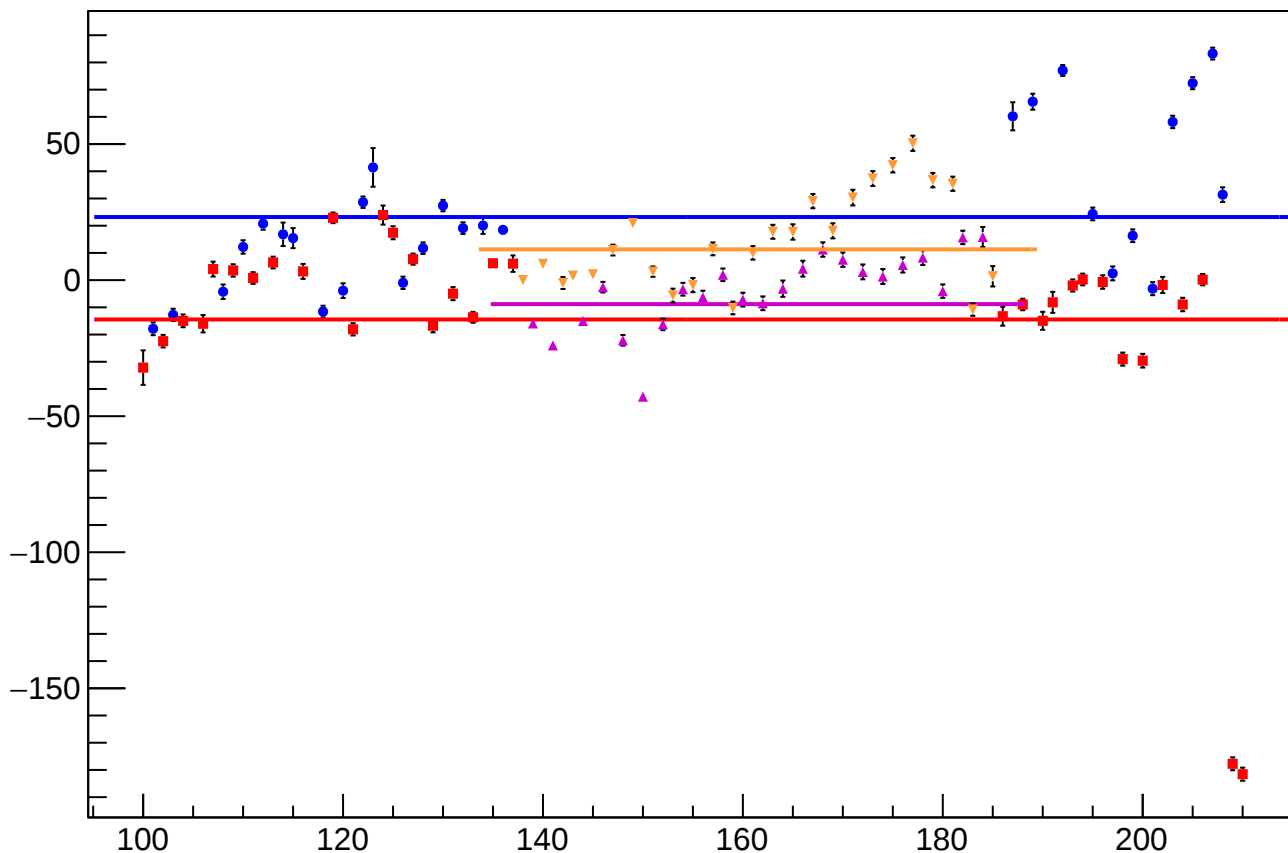
Right: 3119.378 $\pm$ 0.396 χ^2 /NDF: 23231.5/60

In: 3220.033 $\pm$ 0.404 χ^2 /NDF:361675.3/50

Out: 3220.225 $\pm$ 0.386 χ^2 /NDF:415259.6/57

All: 3220.133 $\pm$ 0.279 χ^2 /NDF: 776935.1/108

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.187+/-0.447 χ^2/NDF : 3905.1/27

Left Out: 11.305+/-0.454 χ^2/NDF : 1144.3/24

Right Out: -14.457+/-0.424 χ^2/NDF : 11014.6/32

Left In: -8.815+/-0.475 χ^2/NDF : 942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

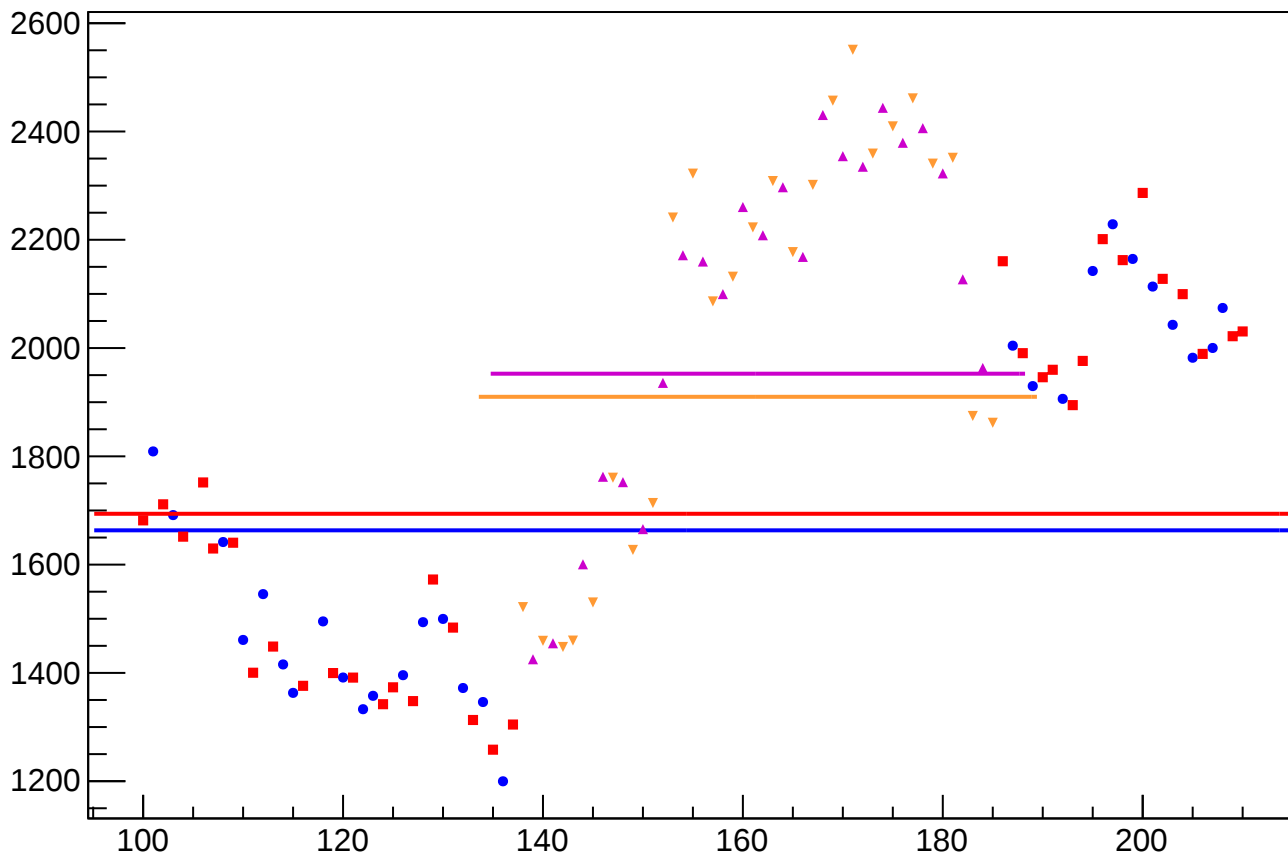
Right: 3.351+/-0.308 χ^2/NDF : 18649.7/60

In: 8.154+/-0.326 χ^2/NDF : 7250.4/50

Out: -2.453+/-0.310 χ^2/NDF : 13879.6/57

All: 2.584+/-0.225 χ^2/NDF : 21686.6/108

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1663.333 $\pm$ 0.316

χ^2 /NDF: 1083132.5/27

Left: 1930.313 $\pm$ 0.232

χ^2 /NDF: 2473233.3/47

Left Out: 1909.963 $\pm$ 0.321

χ^2 /NDF: 1399467.7/24

Right: 1679.442 $\pm$ 0.218

χ^2 /NDF: 2246329.0/60

Right Out: 1693.904 $\pm$ 0.300

χ^2 /NDF: 1158276.3/32

In: 1799.234 $\pm$ 0.230

χ^2 /NDF: 2541255.1/50

Out: 1794.579 $\pm$ 0.219

χ^2 /NDF: 2799804.0/57

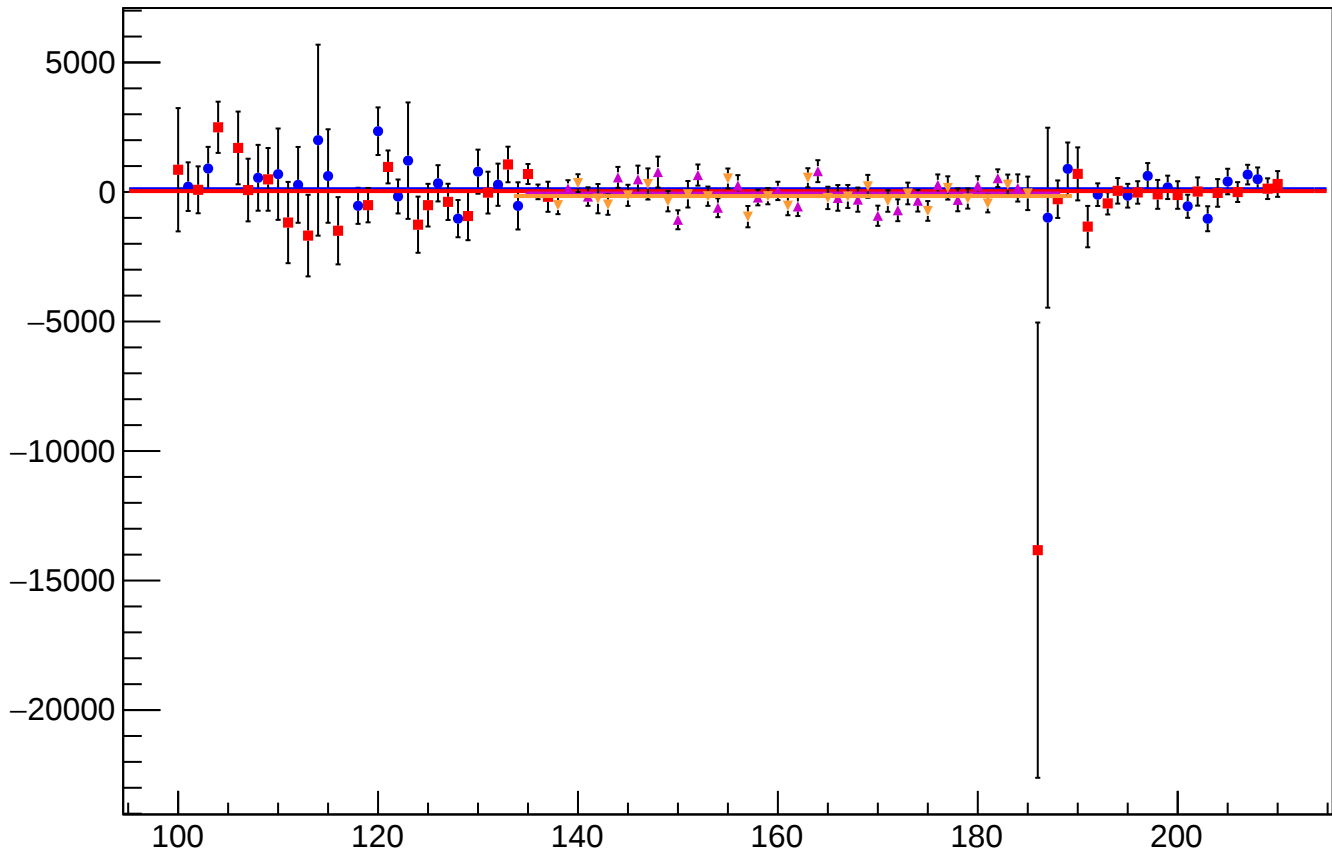
Left In: 1952.637 $\pm$ 0.336

χ^2 /NDF: 1065333.8/22

All: 1796.790 $\pm$ 0.159

χ^2 /NDF: 5341273.5/10

asym_sam1_mean vs Slug, Sign Corrected



Right In: 106.744+/-114.744 χ^2/NDF : 26.0/27

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 33.432+/-112.259 χ^2/NDF : 30.3/32

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

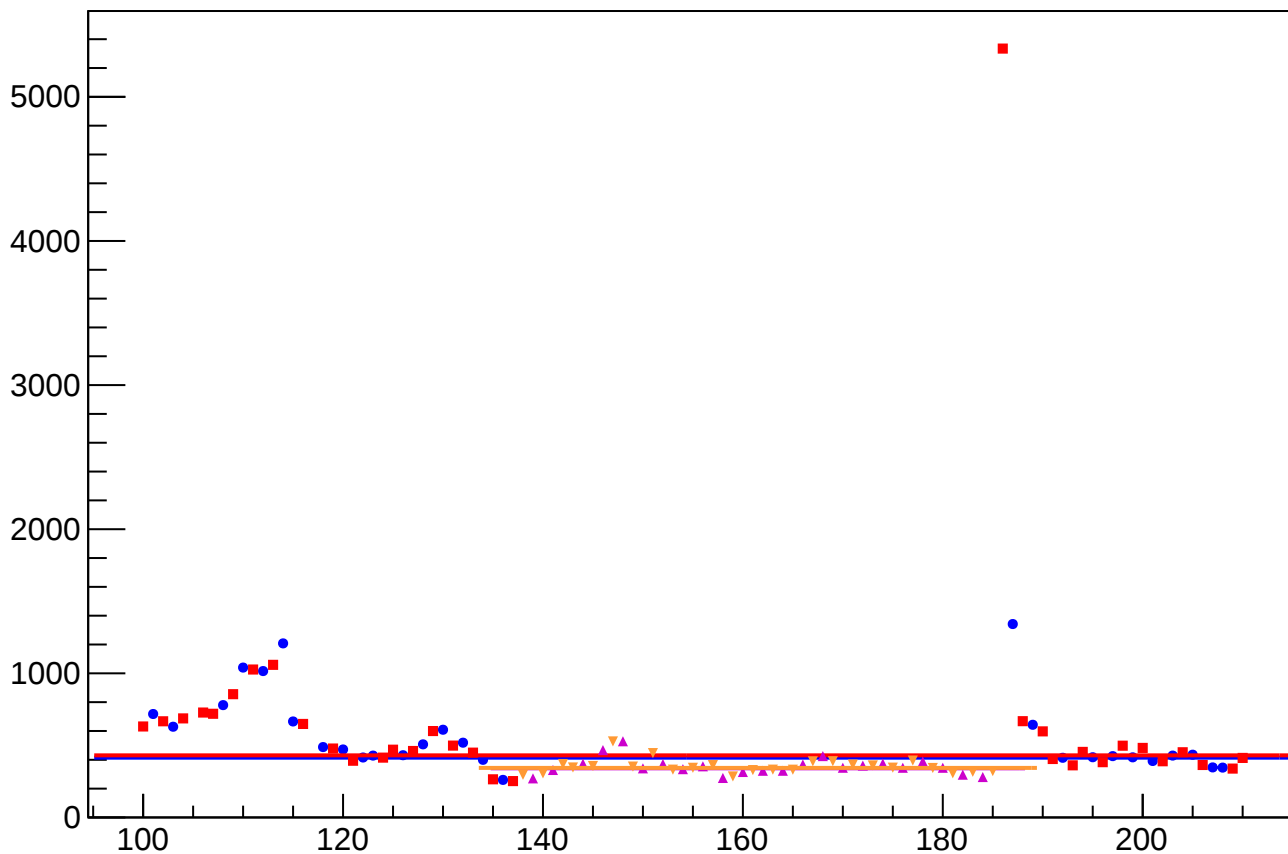
Right: 69.286+/-80.243 χ^2/NDF : 56.5/60

In: -2.397+/-67.029 χ^2/NDF :65.9/50

Out: -92.176+/-65.577 χ^2/NDF :54.2/57

All: -48.270+/-46.875 χ^2/NDF : 121.1/108

asym_sam1_rms vs Slug, Sign Corrected



Right In: 414.900+/-0.081 χ^2/NDF : 2383076.0/27

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 430.913+/-0.079 χ^2/NDF : 3266964.9/32

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

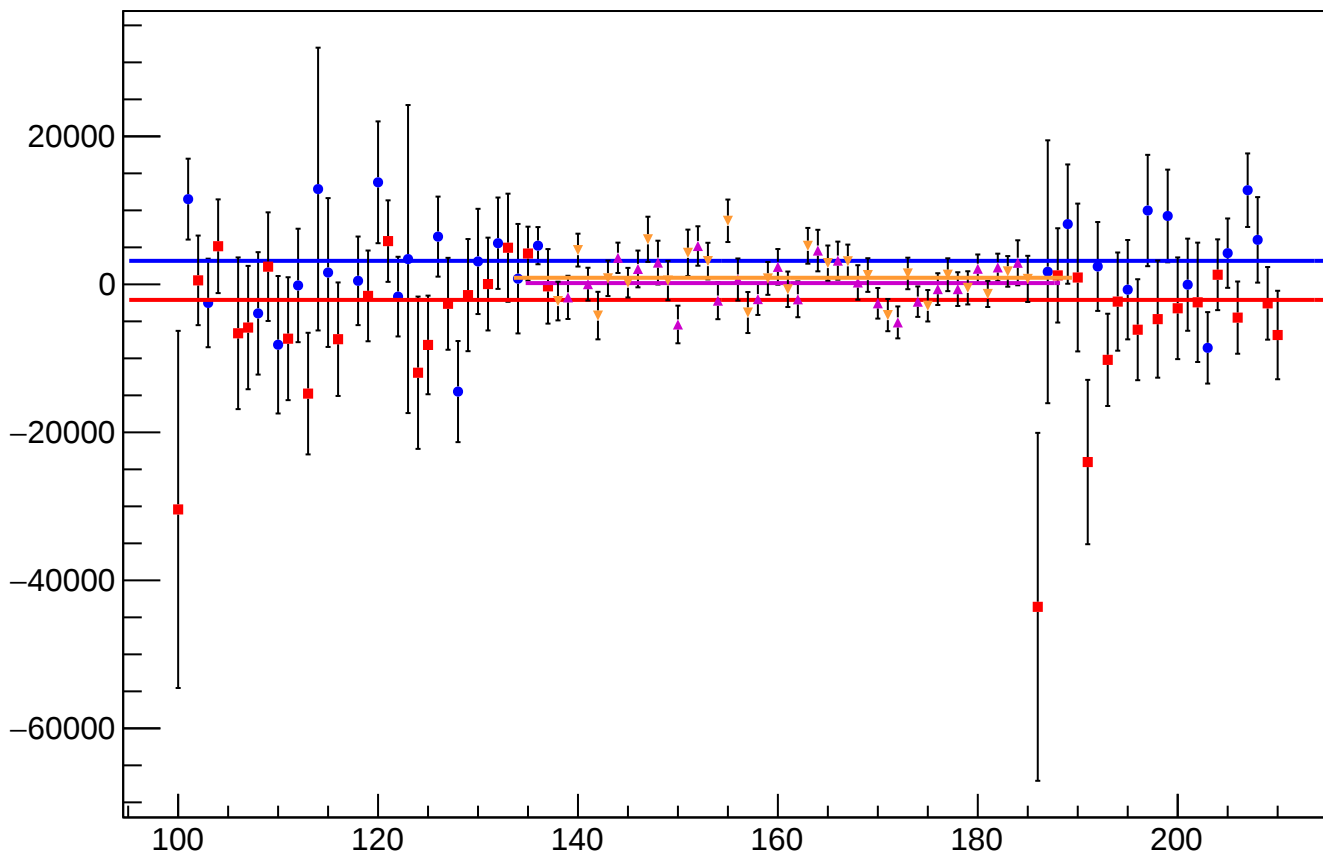
Right: 423.082+/-0.057 χ^2/NDF : 5669942.8/60

In: 366.136+/-0.047 χ^2/NDF : 3656074.8/50

Out: 373.531+/-0.046 χ^2/NDF : 4599649.9/57

All: 369.914+/-0.033 χ^2/NDF : 8268161.6/108

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3177.912 $\pm$ 1138.554 χ^2 /NDF: 29.3/27

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2100.227 $\pm$ 1147.600 χ^2 /NDF: 25.8/32

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

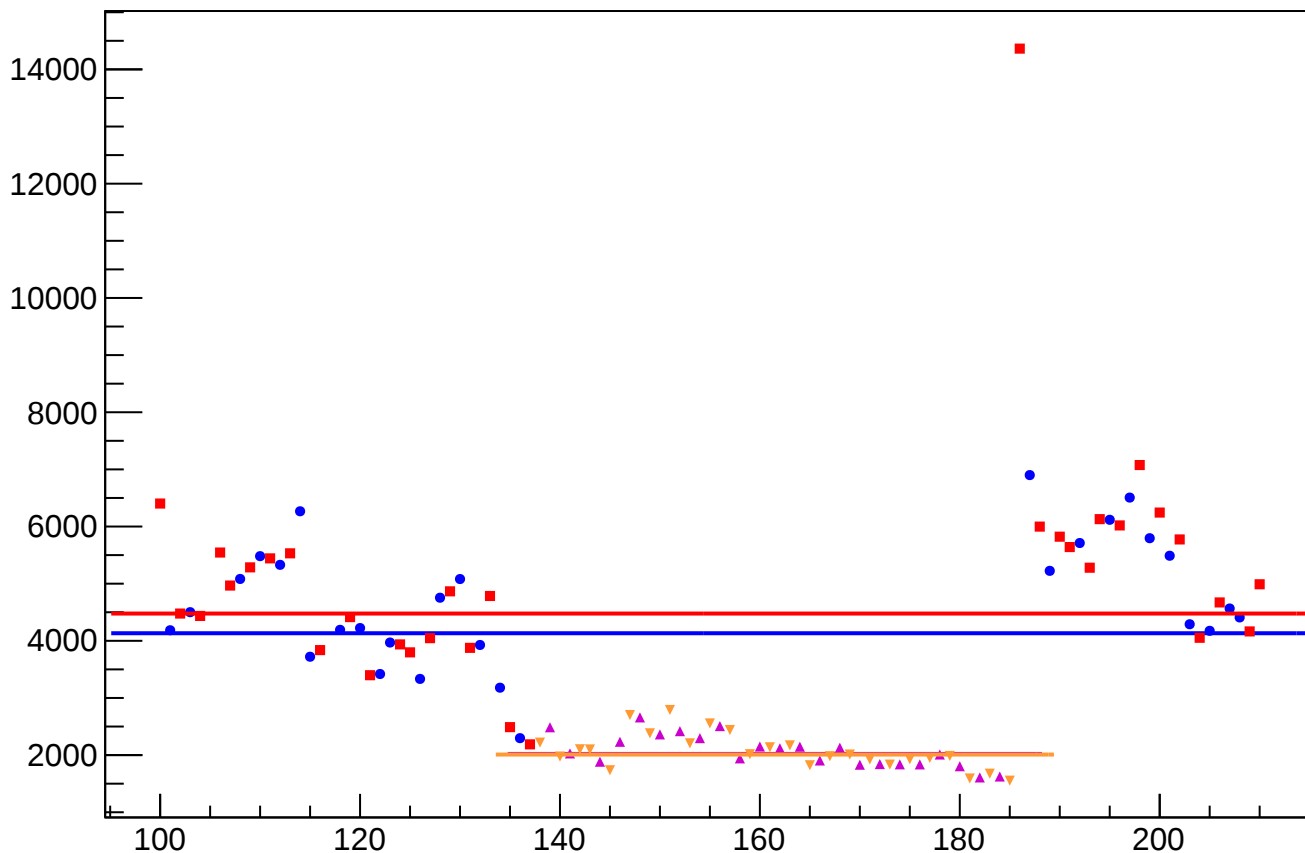
Right: 559.728 $\pm$ 808.258 χ^2 /NDF: 65.8/60

In: 638.952 $\pm$ 448.588 χ^2 /NDF:68.3/50

Out: 455.712 $\pm$ 437.518 χ^2 /NDF:69.6/57

All: 545.043 $\pm$ 313.213 χ^2 /NDF: 138.0/108

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4132.688 $\pm$ 0.805 χ^2 /NDF: 2244140.6/27

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4477.283 $\pm$ 0.811 χ^2 /NDF: 2519173.0/32

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

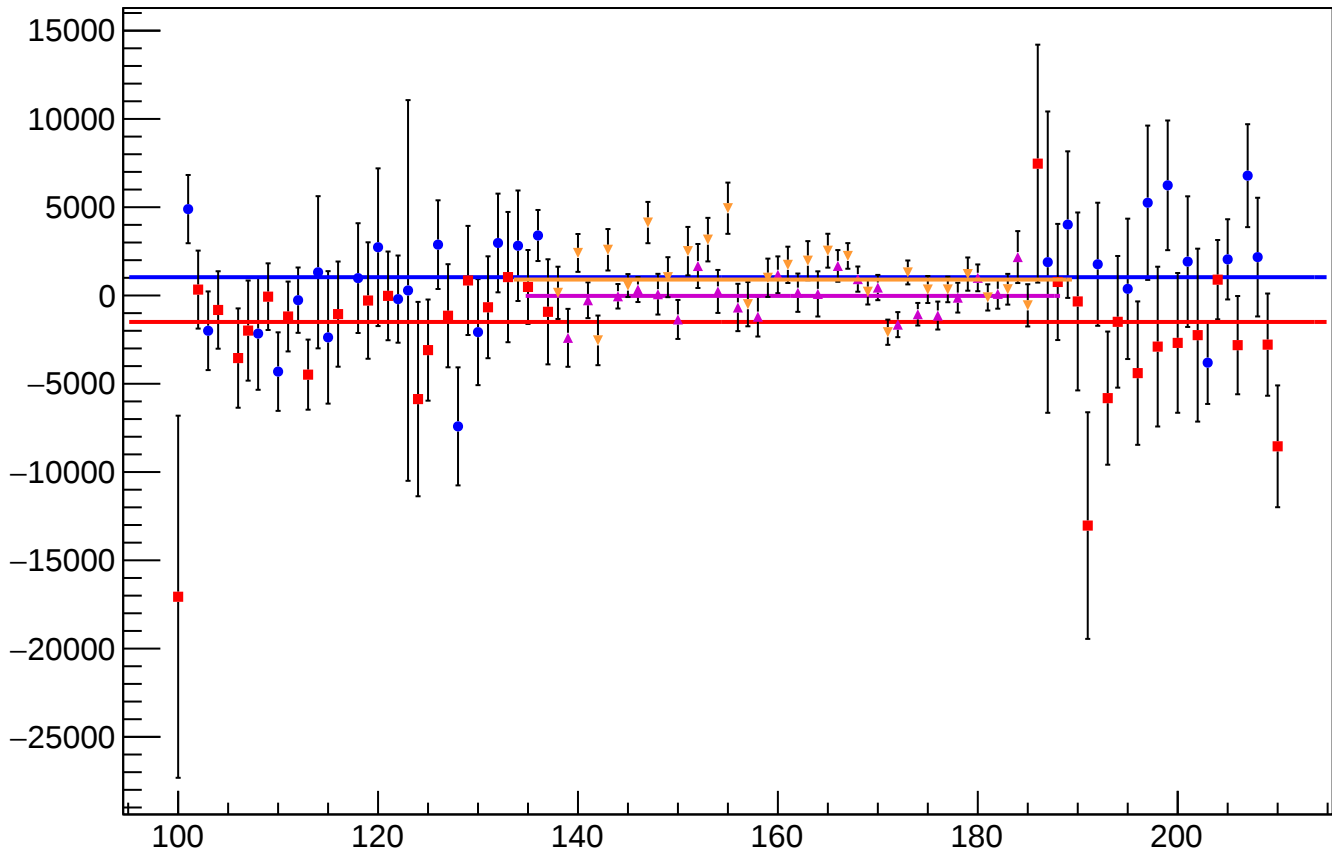
Right: 4303.622 $\pm$ 0.572 χ^2 /NDF: 4854192.1/60

In: 2348.271 $\pm$ 0.317 χ^2 /NDF: 8633024.1/50

Out: 2368.301 $\pm$ 0.309 χ^2 /NDF: 11132400.2/57

All: 2358.536 $\pm$ 0.221 χ^2 /NDF: 19767467.9/111

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1036.121+/-528.497 χ^2/NDF : 37.9/27

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1498.826+/-512.716 χ^2/NDF : 23.3/32

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

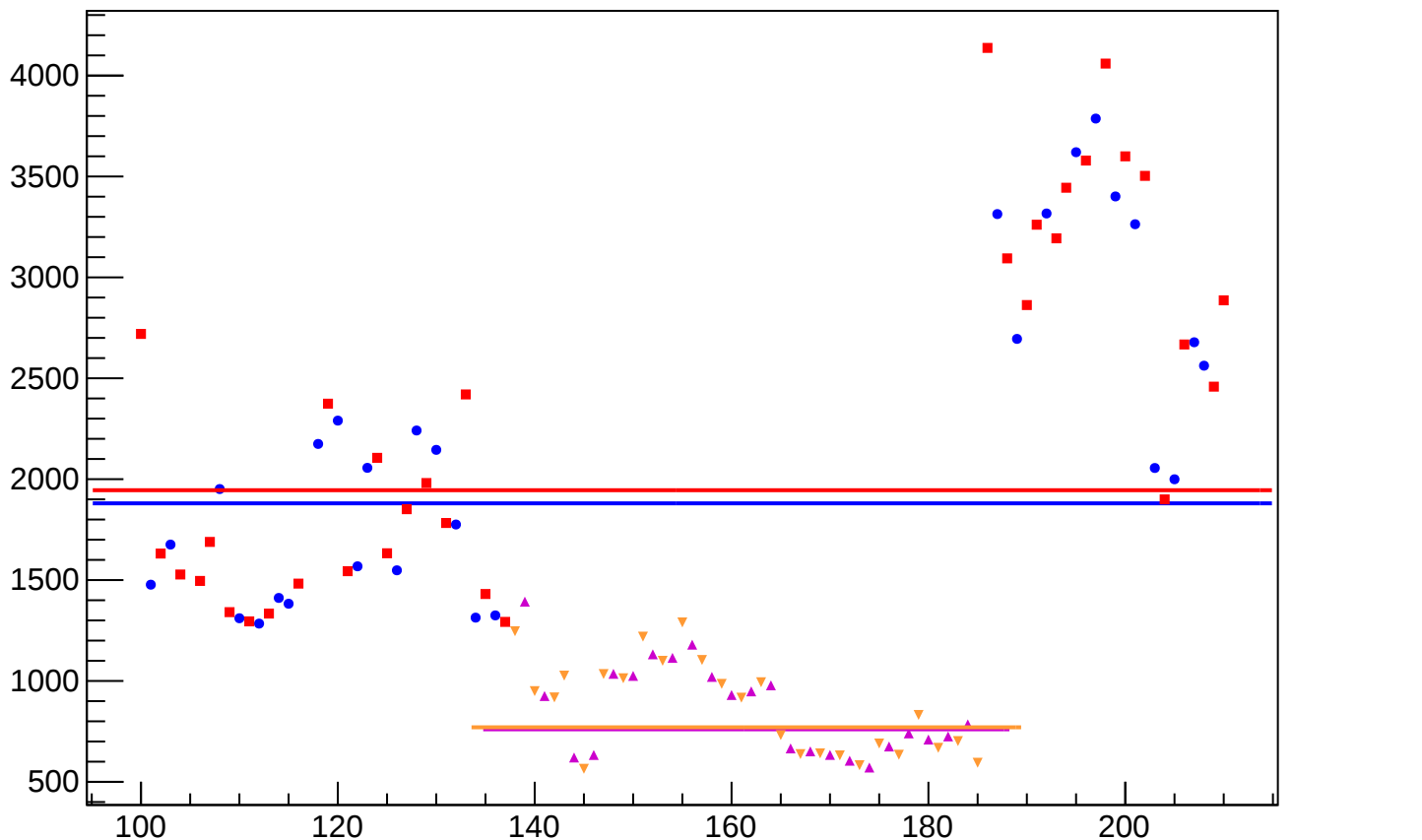
Right: -269.766+/-367.997 χ^2/NDF : 73.1/60

In: 95.651+/-177.241 χ^2/NDF : 69.7/50

Out: 623.263+/-174.725 χ^2/NDF : 106.2/57

All: 363.228+/-124.429 χ^2/NDF : 180.4/108

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1880.246 $\pm$ 0.374 χ^2 /NDF: 3115408.4/27

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1945.274 $\pm$ 0.363 χ^2 /NDF: 4027277.6/32

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

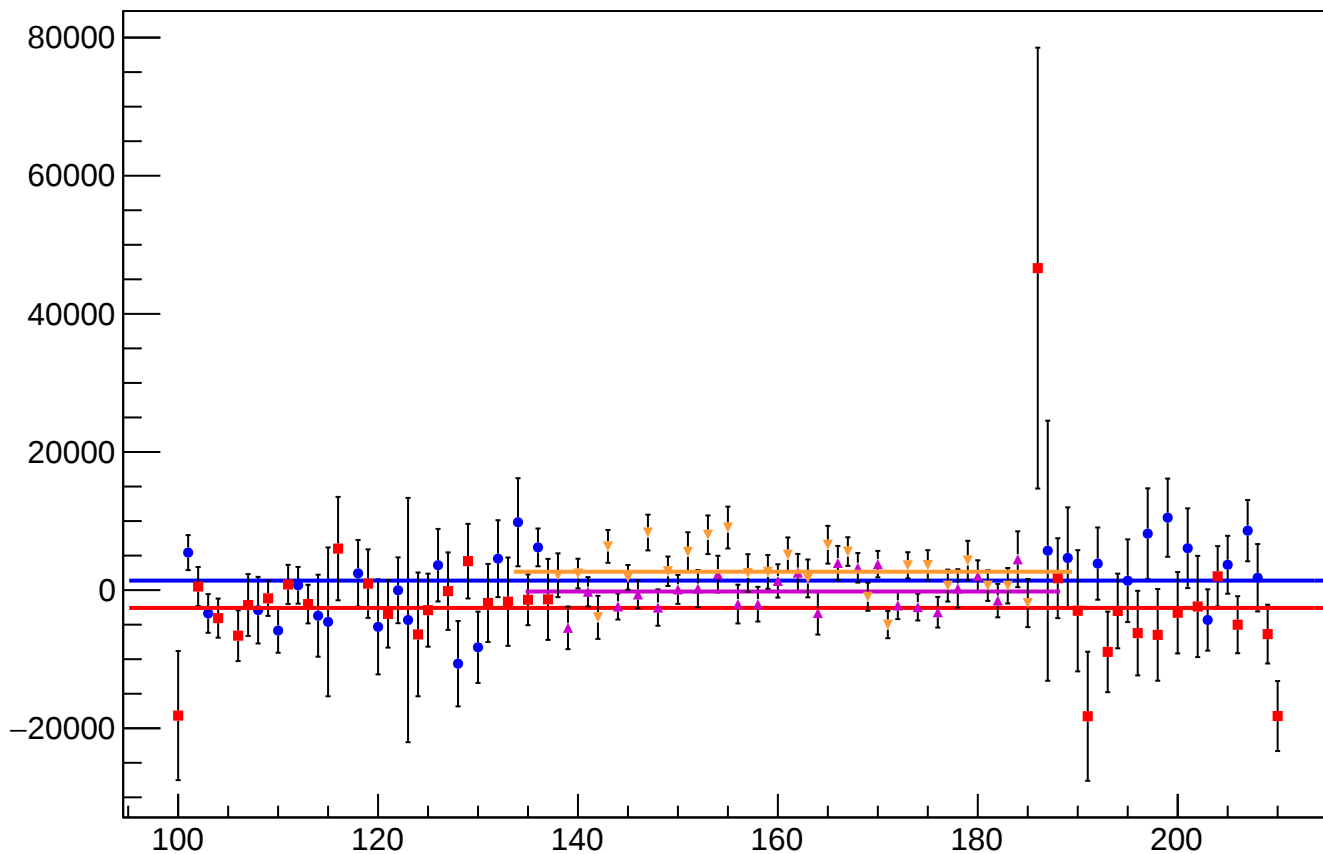
Right: 1913.745 $\pm$ 0.260 χ^2 /NDF: 7158284.6/60

In: 886.308 $\pm$ 0.125 χ^2 /NDF: 13072572.9/50

Out: 906.772 $\pm$ 0.124 χ^2 /NDF: 15598293.2/57

All: 896.686 $\pm$ 0.088 χ^2 /NDF: 28684386.7/100

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1378.992 $\pm$ 852.966 χ^2 /NDF: 35.7/27

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF: 49.2/24

Right Out: -2574.530 $\pm$ 793.677 χ^2 /NDF: 30.7/32

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

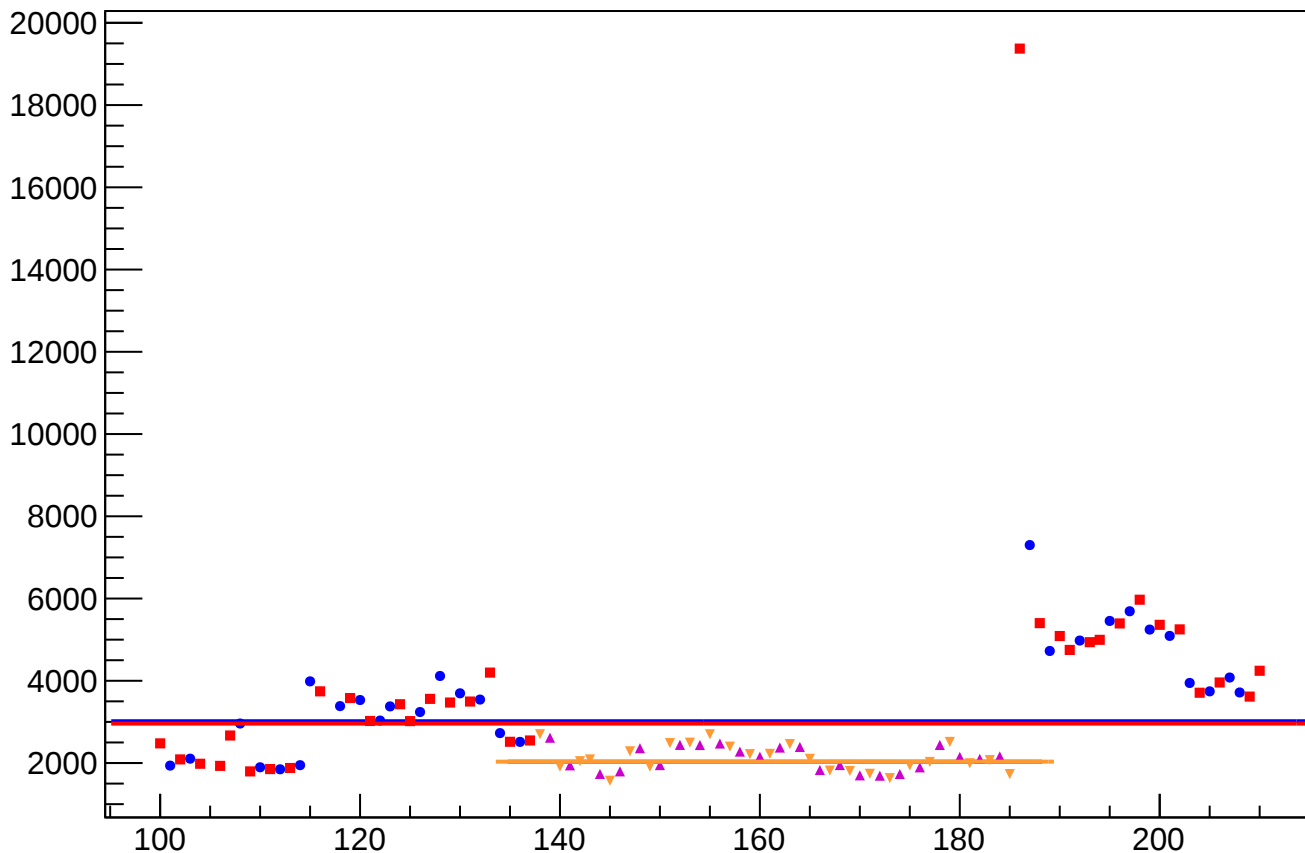
Right: -739.938 $\pm$ 581.045 χ^2 /NDF: 77.8/60

In: 194.765 $\pm$ 426.237 χ^2 /NDF: 64.0/50

Out: 1263.220 $\pm$ 410.586 χ^2 /NDF: 111.8/57

All: 748.970 $\pm$ 295.706 χ^2 /NDF: 179.1/108

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3016.402 $\pm$ 0.603 χ^2 /NDF: 3530831.1/27

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2959.026 $\pm$ 0.561 χ^2 /NDF: 5052491.2/32

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF: 652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

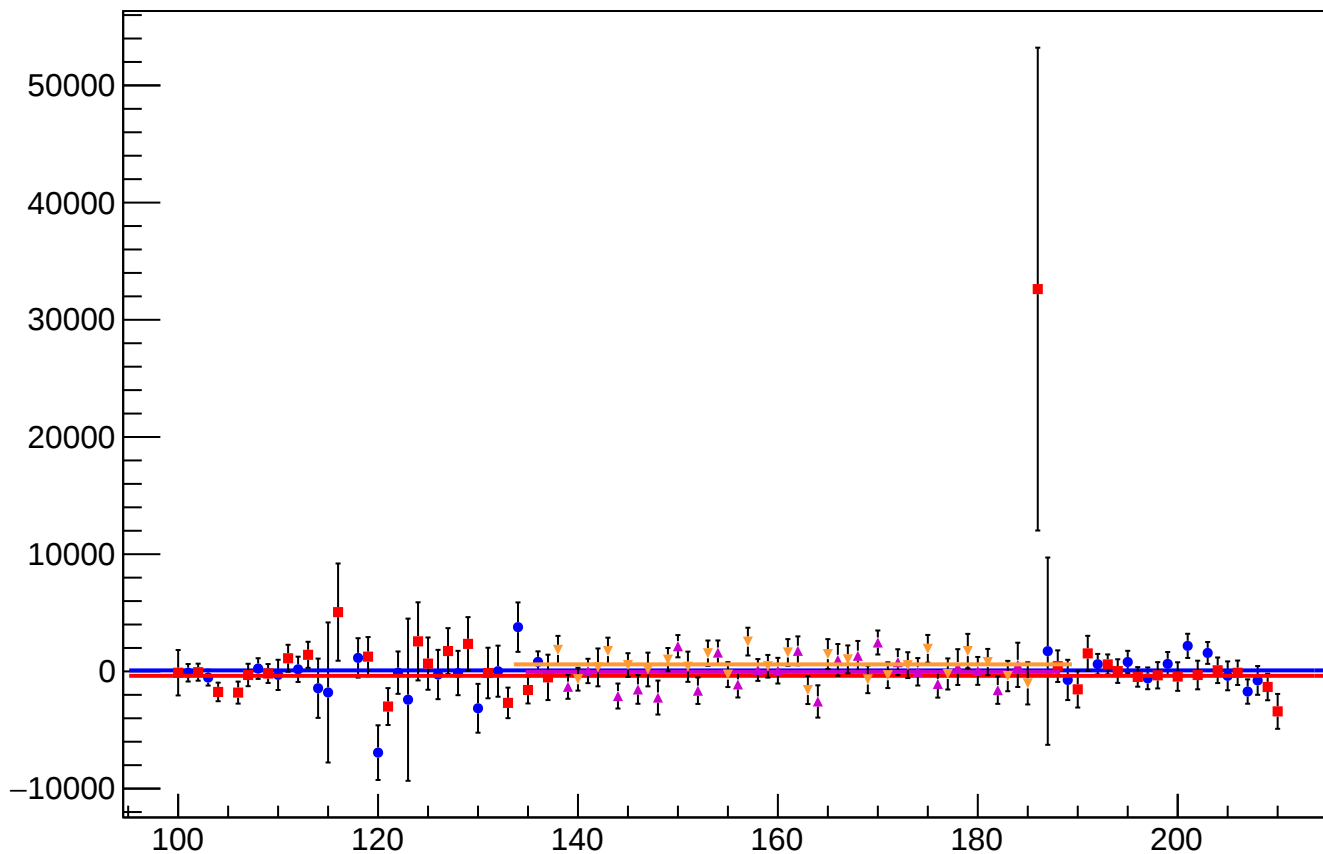
Right: 2985.651 $\pm$ 0.411 χ^2 /NDF: 8588172.4/60

In: 2278.308 $\pm$ 0.301 χ^2 /NDF: 6179597.8/50

Out: 2281.071 $\pm$ 0.290 χ^2 /NDF: 7869101.7/57

All: 2279.741 $\pm$ 0.209 χ^2 /NDF: 14048743.1/113

asym_sam5_mean vs Slug, Sign Corrected



Right In: 85.575 ± 227.085 χ^2/NDF : 29.6/27

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -375.767 ± 209.371 χ^2/NDF : 34.9/32

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

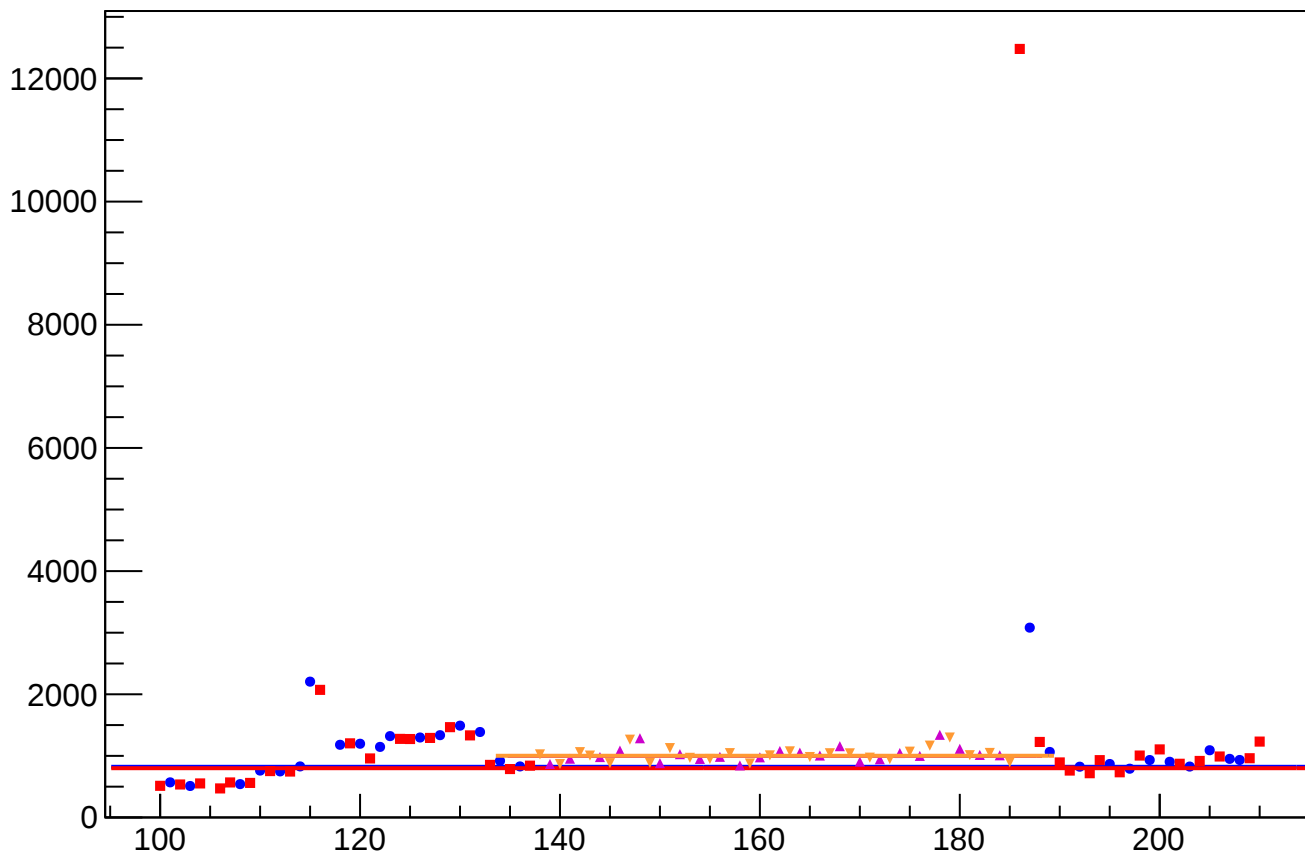
Right: -163.789 ± 153.930 χ^2/NDF : 66.7/60

In: 25.733 ± 165.212 χ^2/NDF : 66.1/50

Out: 56.095 ± 156.317 χ^2/NDF : 63.0/57

All: 41.753 ± 113.547 χ^2/NDF : 129.1/108

asym_sam5_rms vs Slug, Sign Corrected



Right In: 822.438+/-0.161 χ^2/NDF : 2168498.6/27

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 799.719+/-0.148 χ^2/NDF : 3341989.7/32

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

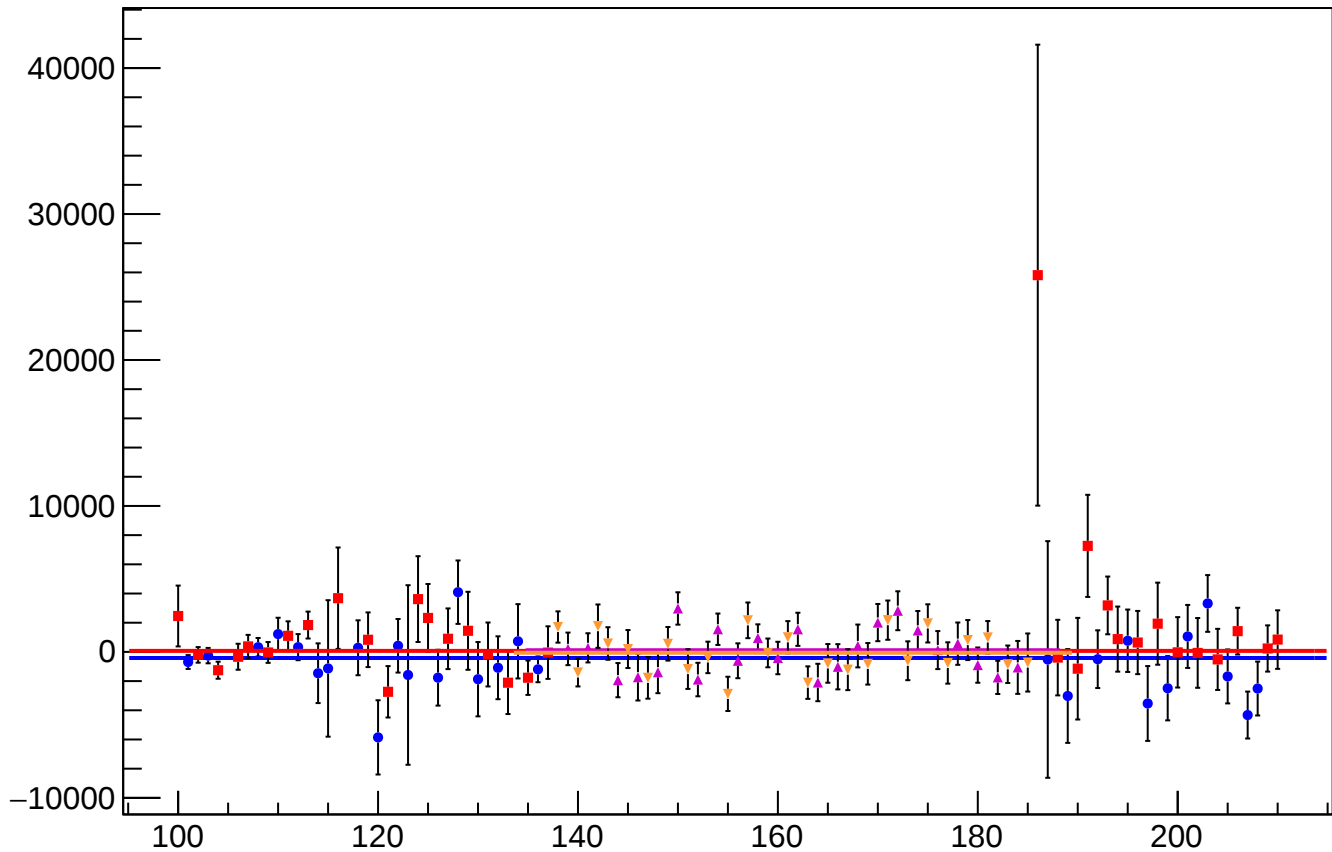
Right: 810.158+/-0.109 χ^2/NDF : 5521309.0/60

In: 905.098+/-0.117 χ^2/NDF : 3136145.4/50

Out: 889.012+/-0.111 χ^2/NDF : 4534210.6/57

All: 896.610+/-0.080 χ^2/NDF : 7680361.3/108

asym_sam6_mean vs Slug, Sign Corrected



Right In: -415.761 ± 233.694 χ^2/NDF : 31.2/27

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 70.746 ± 228.083 χ^2/NDF : 33.0/32

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

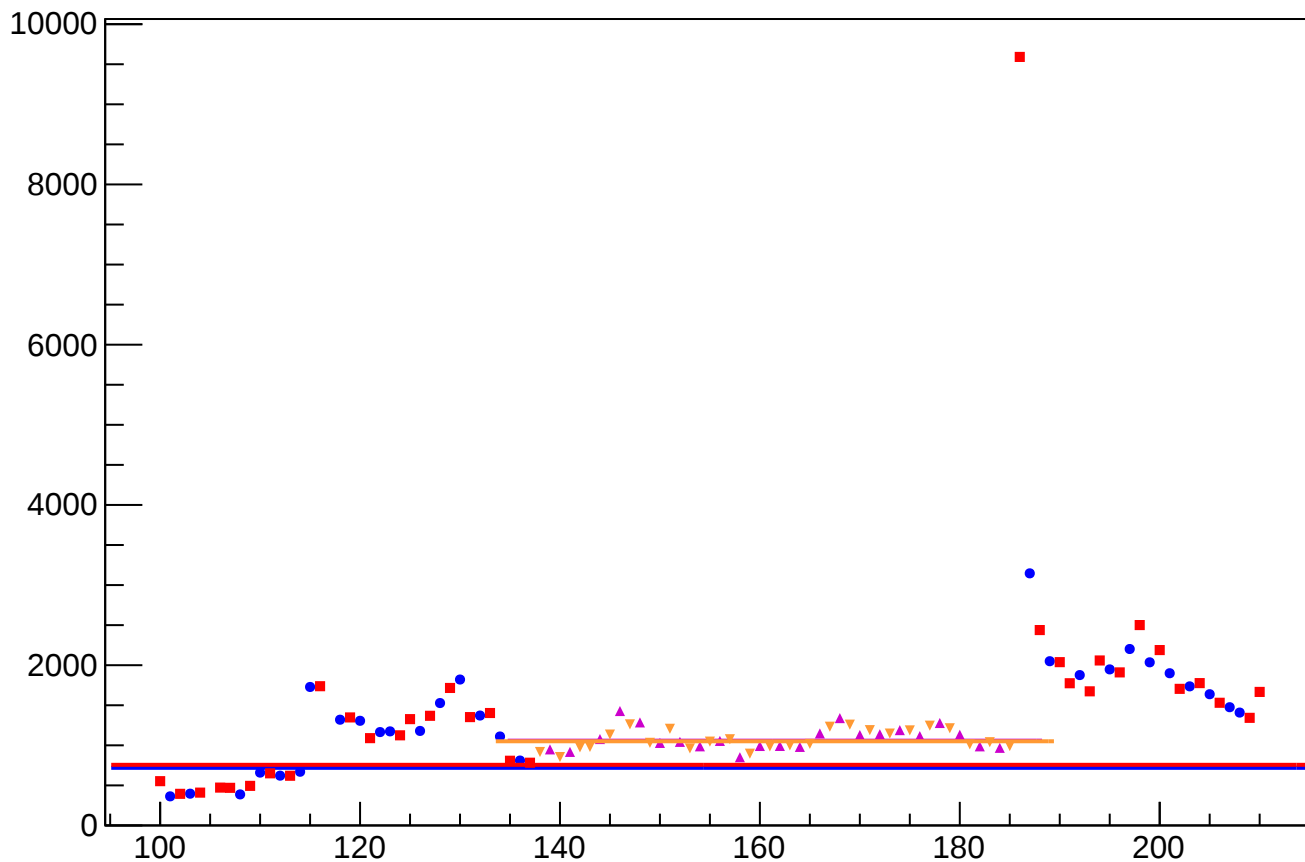
Right: -166.596 ± 163.227 χ^2/NDF : 66.5/60

In: -175.084 ± 172.414 χ^2/NDF : 68.4/50

Out: 10.520 ± 167.413 χ^2/NDF : 64.2/57

All: -79.551 ± 120.108 χ^2/NDF : 133.2/108

asym_sam6_rms vs Slug, Sign Corrected



Right In: 719.321+/-0.165 χ^2/NDF : 9619094.4/27

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 756.808+/-0.161 χ^2/NDF : 10802054.4/32

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

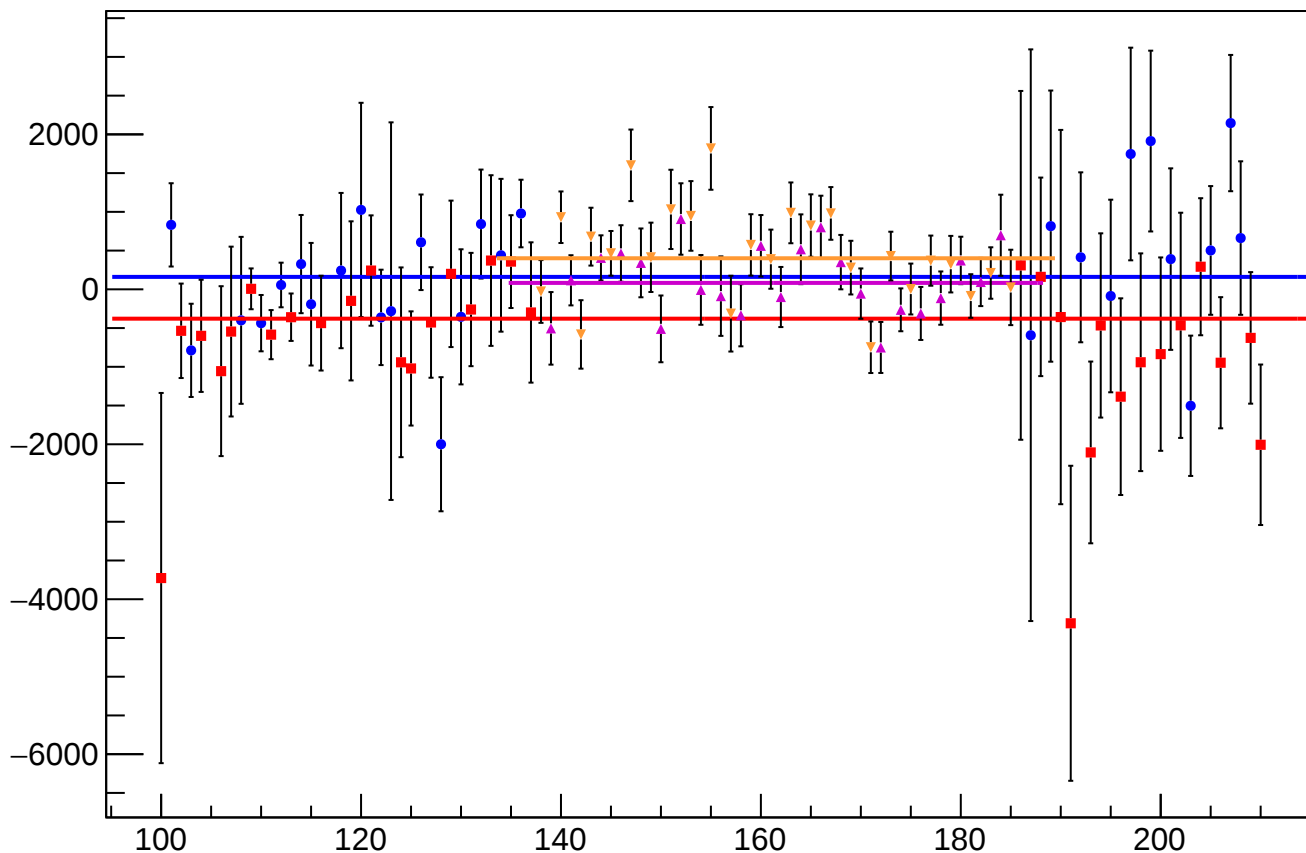
Right: 738.520+/-0.115 χ^2/NDF : 20447504.7/60

In: 873.698+/-0.122 χ^2/NDF : 12062925.2/50

Out: 892.341+/-0.118 χ^2/NDF : 12816294.4/57

All: 883.294+/-0.085 χ^2/NDF : 24891254.9/10

asym_sam7_mean vs Slug, Sign Corrected



Right In: 160.537 ± 131.794 $\chi^2/\text{NDF}: 33.0/27$

Left Out: 400.988 ± 74.546 $\chi^2/\text{NDF}: 52.1/24$

Right Out: -378.799 ± 120.184 $\chi^2/\text{NDF}: 20.0/32$

Left In: 82.890 ± 76.904 $\chi^2/\text{NDF}: 29.0/22$

Left: 246.889 ± 53.526 $\chi^2/\text{NDF}: 89.9/47$

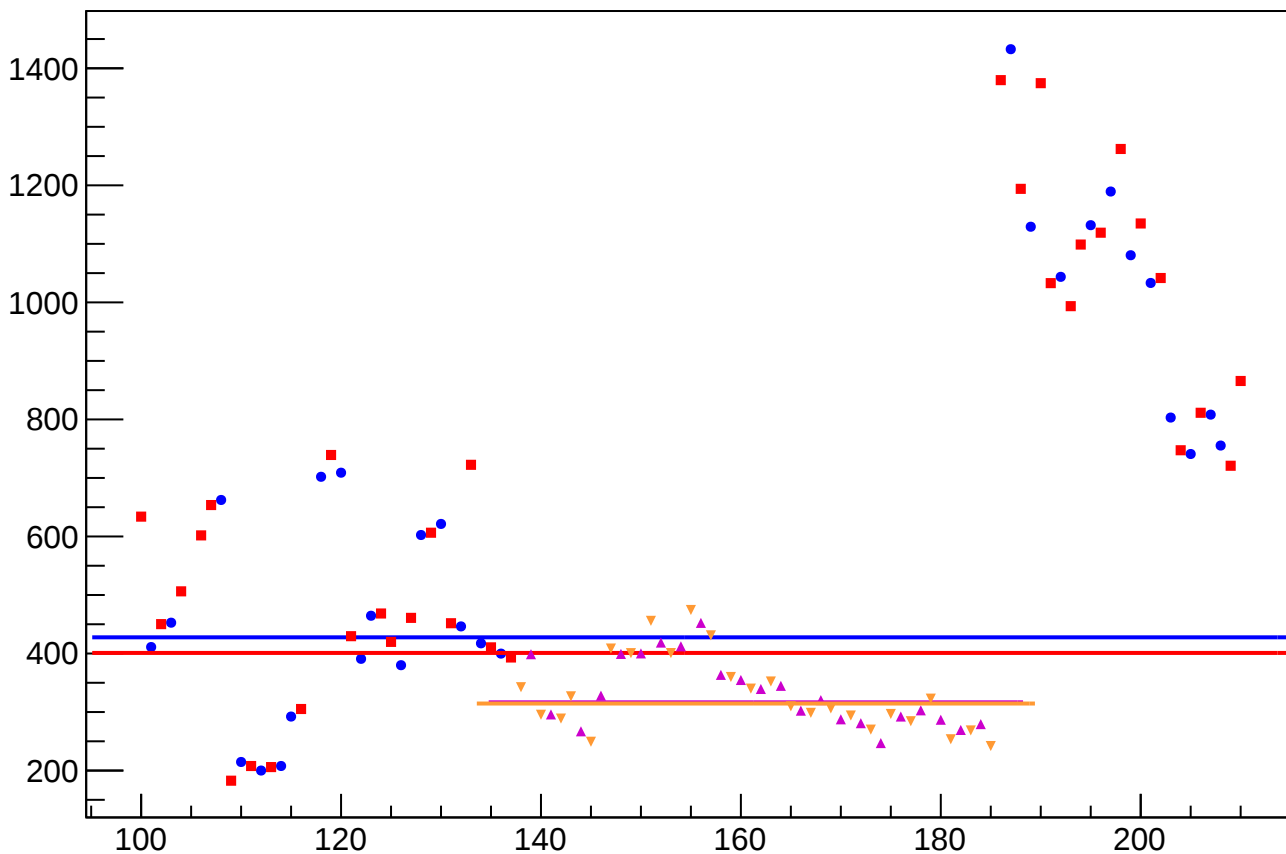
Right: -133.928 ± 88.805 $\chi^2/\text{NDF}: 62.1/60$

In: 102.612 ± 66.423 $\chi^2/\text{NDF}: 62.3/50$

Out: 184.333 ± 63.350 $\chi^2/\text{NDF}: 102.4/57$

All: 145.407 ± 45.843 $\chi^2/\text{NDF}: 165.5/108$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 427.667 $\pm$ 0.093

χ^2/NDF : 7520105.3/27

Left: 315.560 $\pm$ 0.038

χ^2/NDF : 2034094.8/47

Left Out: 314.538 $\pm$ 0.053

χ^2/NDF : 1112445.6/24

Right: 413.104 $\pm$ 0.063

χ^2/NDF : 18101855.7/60

Right Out: 400.994 $\pm$ 0.085

χ^2/NDF : 10537027.8/32

In: 344.846 $\pm$ 0.047

χ^2/NDF : 9499683.9/50

Out: 338.559 $\pm$ 0.045

χ^2/NDF : 12396889.3/57

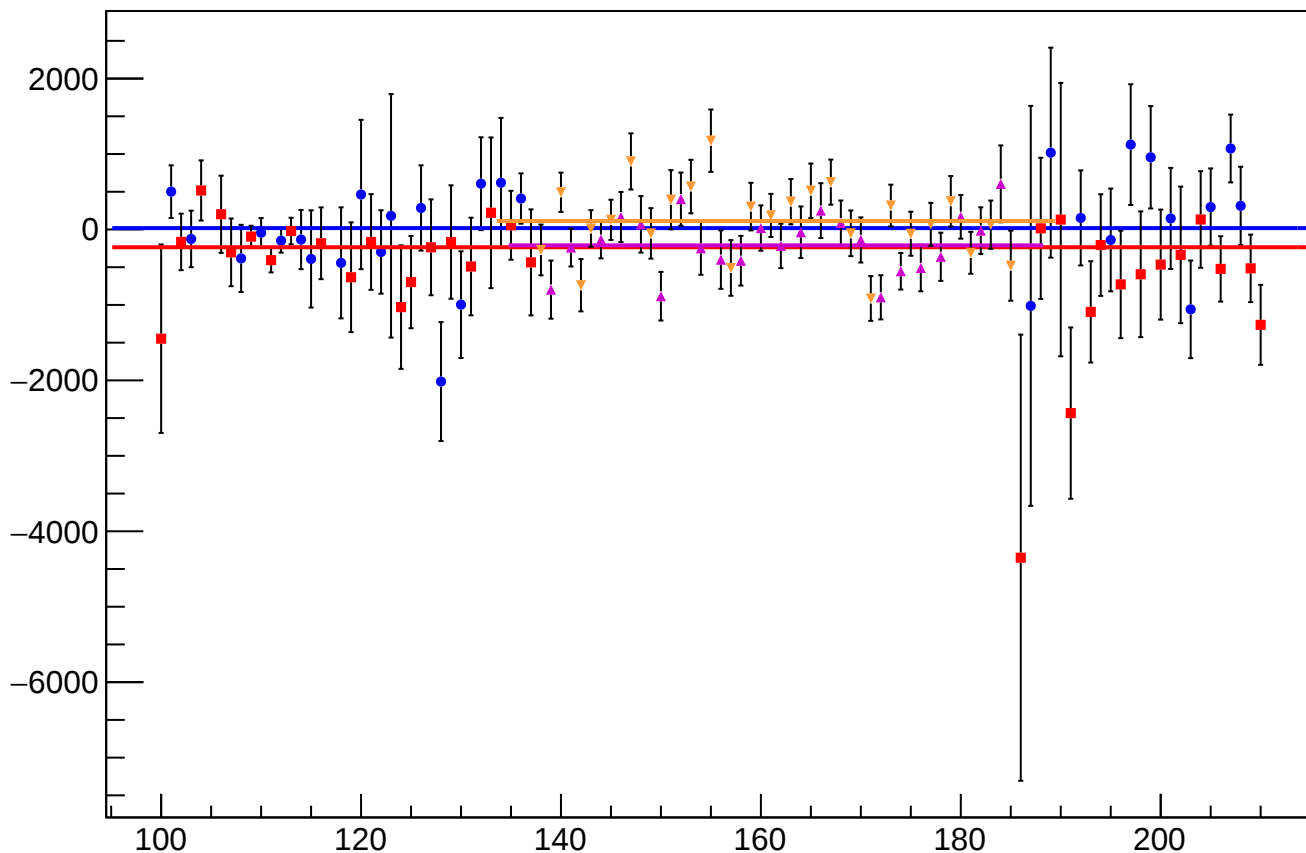
Left In: 316.647 $\pm$ 0.054

χ^2/NDF : 920874.0/22

All: 341.554 $\pm$ 0.032

χ^2/NDF : 21905956.6/100

asym_sam8_mean vs Slug, Sign Corrected



Right In: 18.196 ± 82.267 $\chi^2/\text{NDF}: 30.8/27$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -235.572 ± 70.992 $\chi^2/\text{NDF}: 24.7/32$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

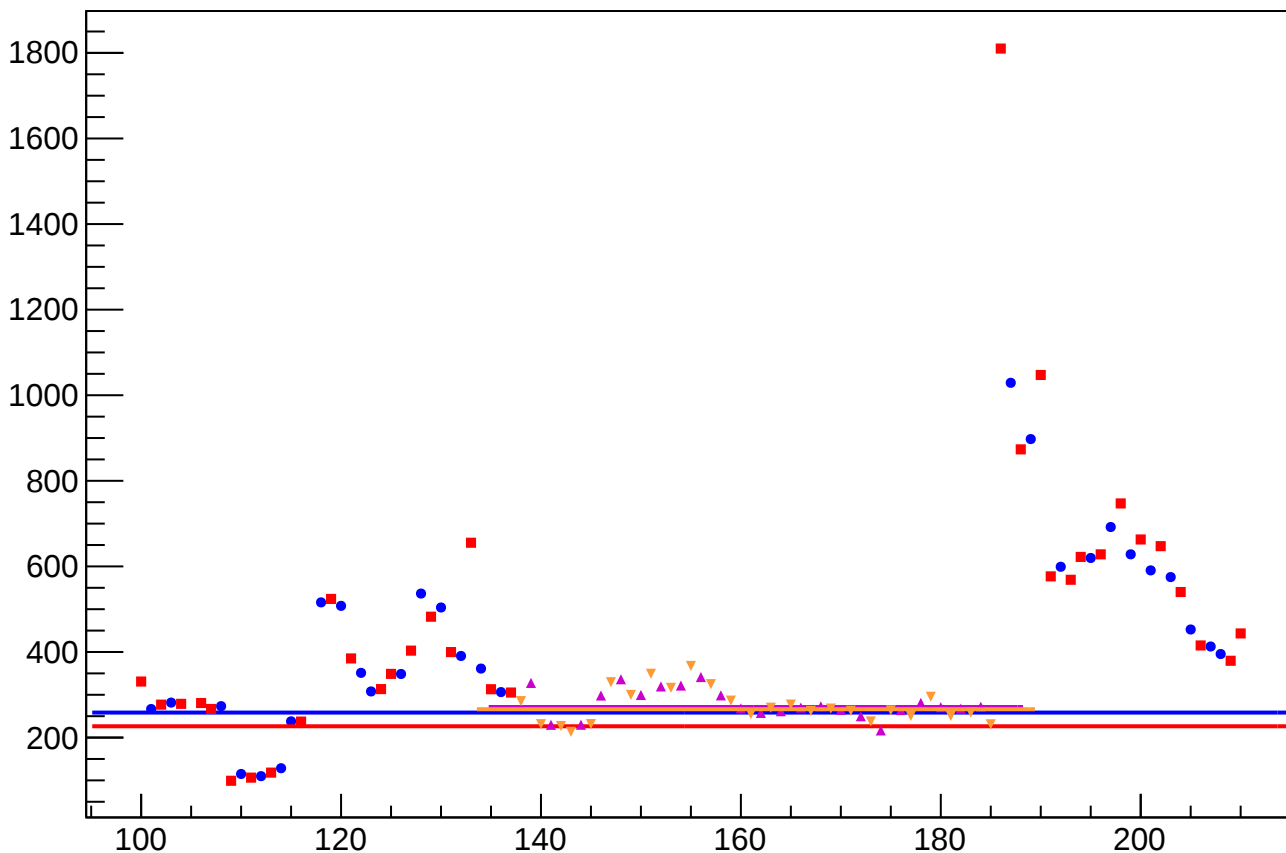
Right: -127.257 ± 53.747 $\chi^2/\text{NDF}: 61.0/60$

In: -121.727 ± 51.247 $\chi^2/\text{NDF}: 64.7/50$

Out: -40.019 ± 46.971 $\chi^2/\text{NDF}: 87.3/57$

All: -77.323 ± 34.627 $\chi^2/\text{NDF}: 153.4/108$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 258.440+/-0.058 χ^2/NDF : 8758924.1/27

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 226.420+/-0.050 χ^2/NDF : 12440010.7/32

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

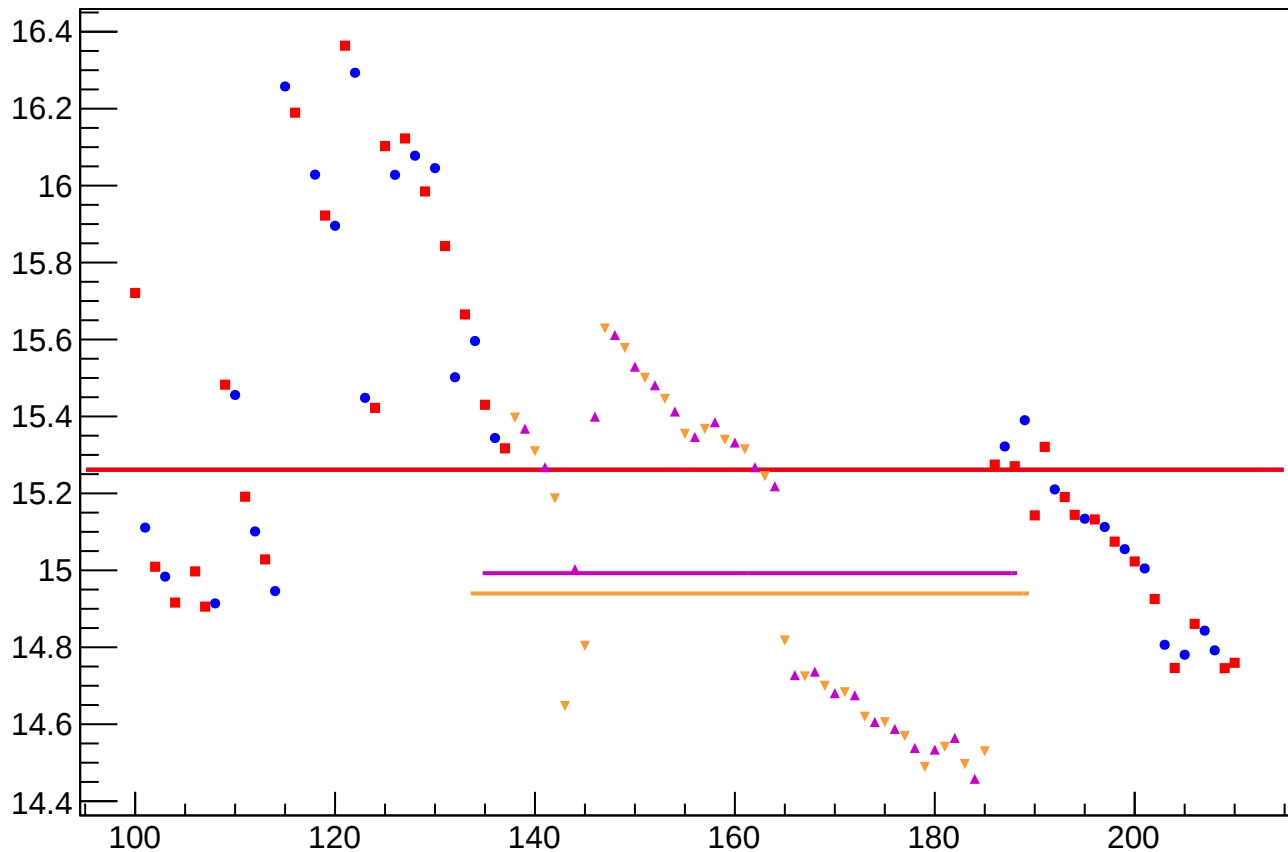
Right: 240.087+/-0.038 χ^2/NDF : 21372587.1/60

In: 266.380+/-0.036 χ^2/NDF : 9311247.8/50

Out: 248.790+/-0.033 χ^2/NDF : 13442823.9/57

All: 256.821+/-0.024 χ^2/NDF : 22882123.4/10

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.262 $\pm$ 0.000

χ^2 /NDF: 15249691675.0/27

Left Out: 14.940 $\pm$ 0.000

χ^2 /NDF: 24199653913.9/24

Right Out: 15.261 $\pm$ 0.000

χ^2 /NDF: 15710953514.7/32

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: 15.262 $\pm$ 0.000

χ^2 /NDF: 30960650686.2/60

In: 15.084 $\pm$ 0.000

χ^2 /NDF: 41023072098.5/50

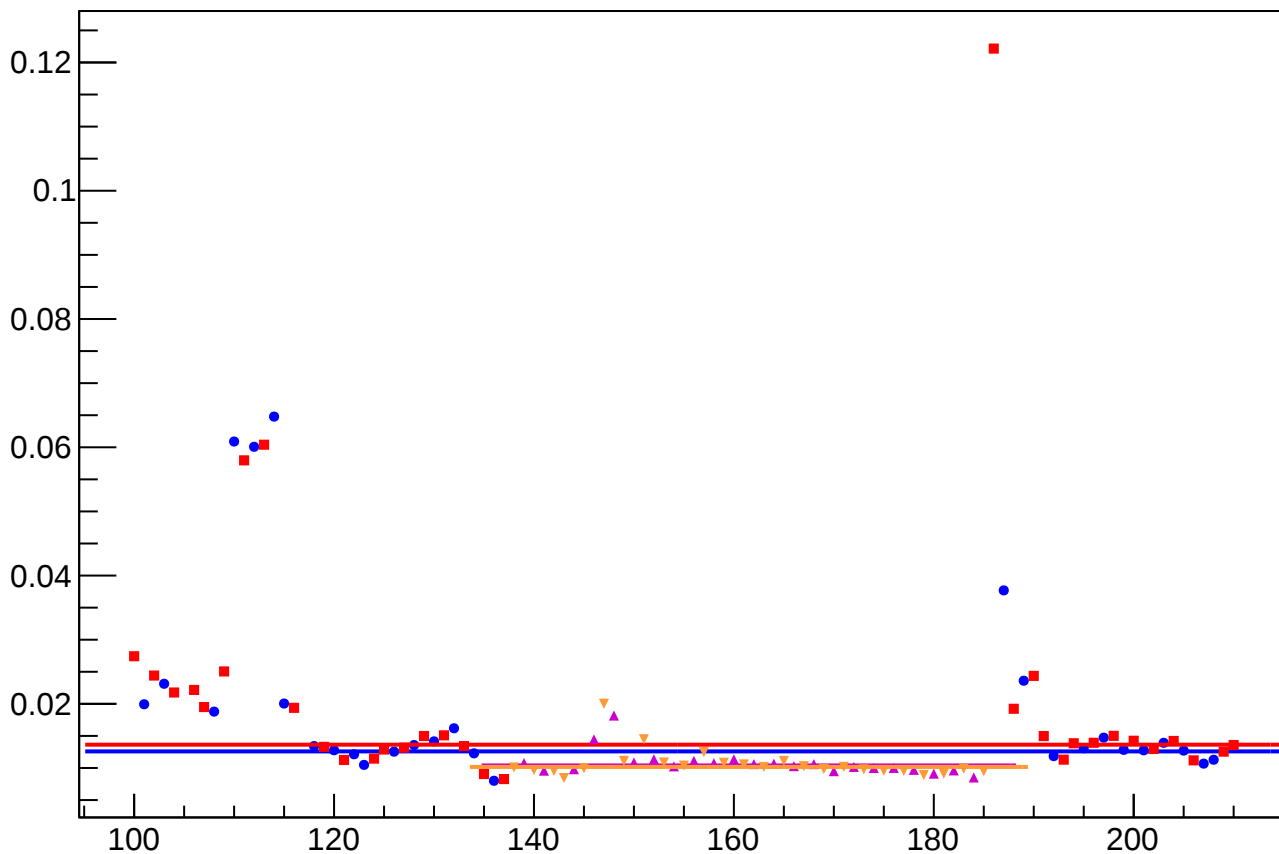
Out: 15.040 $\pm$ 0.000

χ^2 /NDF: 45295682451.5/57

All: 15.062 $\pm$ 0.000

χ^2 /NDF: 86550303939.3

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2571560.6/27

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3098415.3/32

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

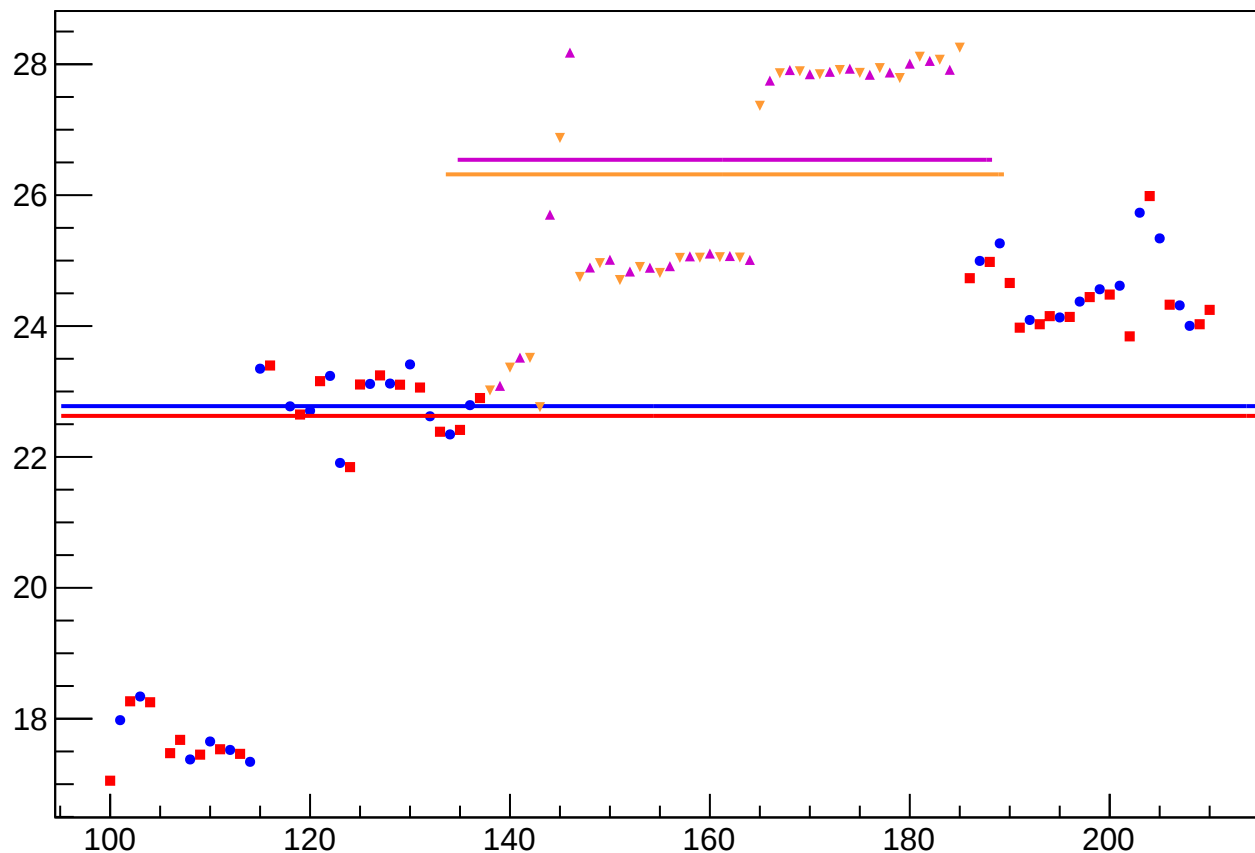
Right: 0.013+/-0.000 χ^2/NDF : 5754630.0/60

In: 0.011+/-0.000 χ^2/NDF : 3611721.0/50

Out: 0.011+/-0.000 χ^2/NDF : 5070475.3/57

All: 0.011+/-0.000 χ^2/NDF : 8684663.3/108

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.776+/-0.000

χ^2/NDF : 1324229469.1/27

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.704+/-0.000

χ^2/NDF : 2872620793.2/60

Right Out: 22.627+/-0.000

χ^2/NDF : 1544173074.8/32

In: 25.668+/-0.000

χ^2/NDF : 8886568597.0/50

Out: 25.553+/-0.000

χ^2/NDF : 10241275612.5/57

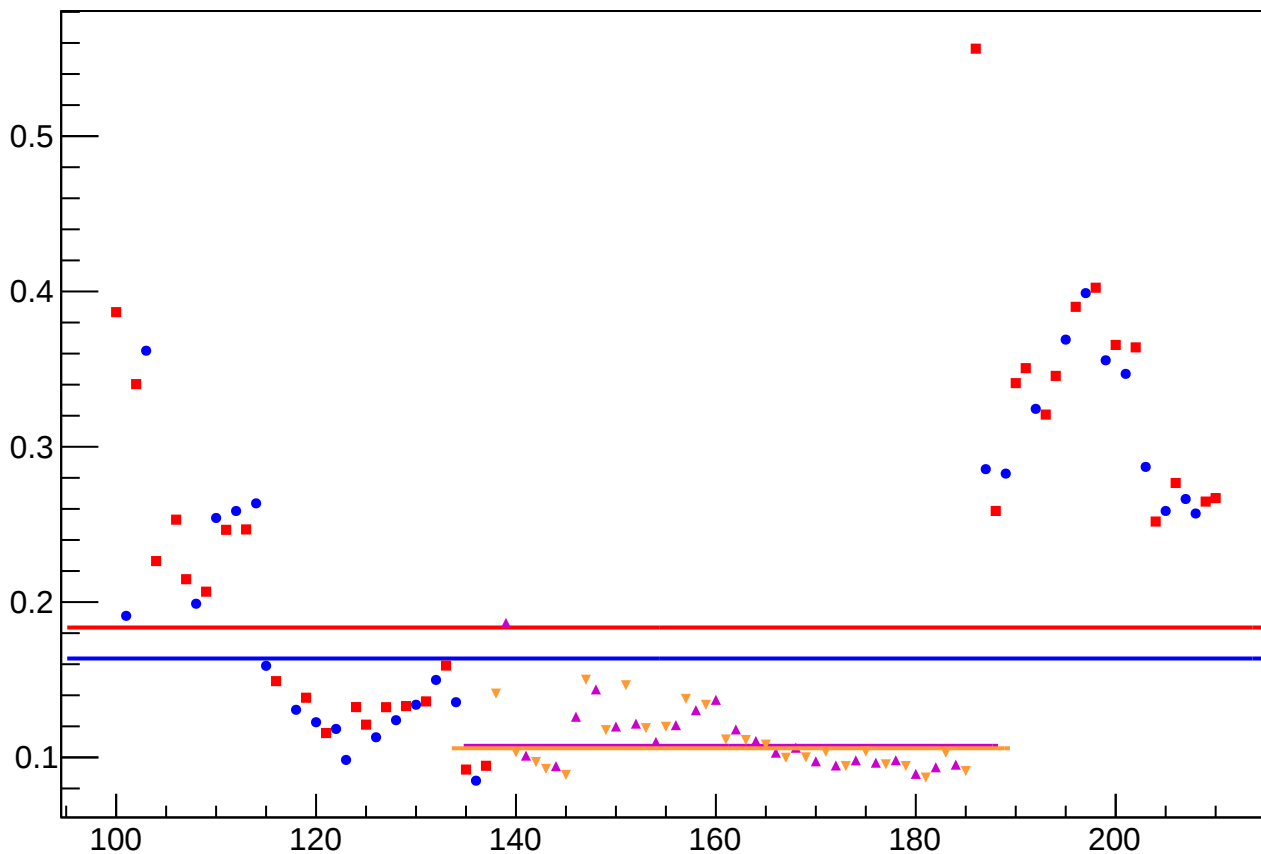
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.609+/-0.000

χ^2/NDF : 19139386172.5

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.164+/-0.000 χ^2/NDF : 5765900.0/27

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.184+/-0.000 χ^2/NDF : 5902307.9/32

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

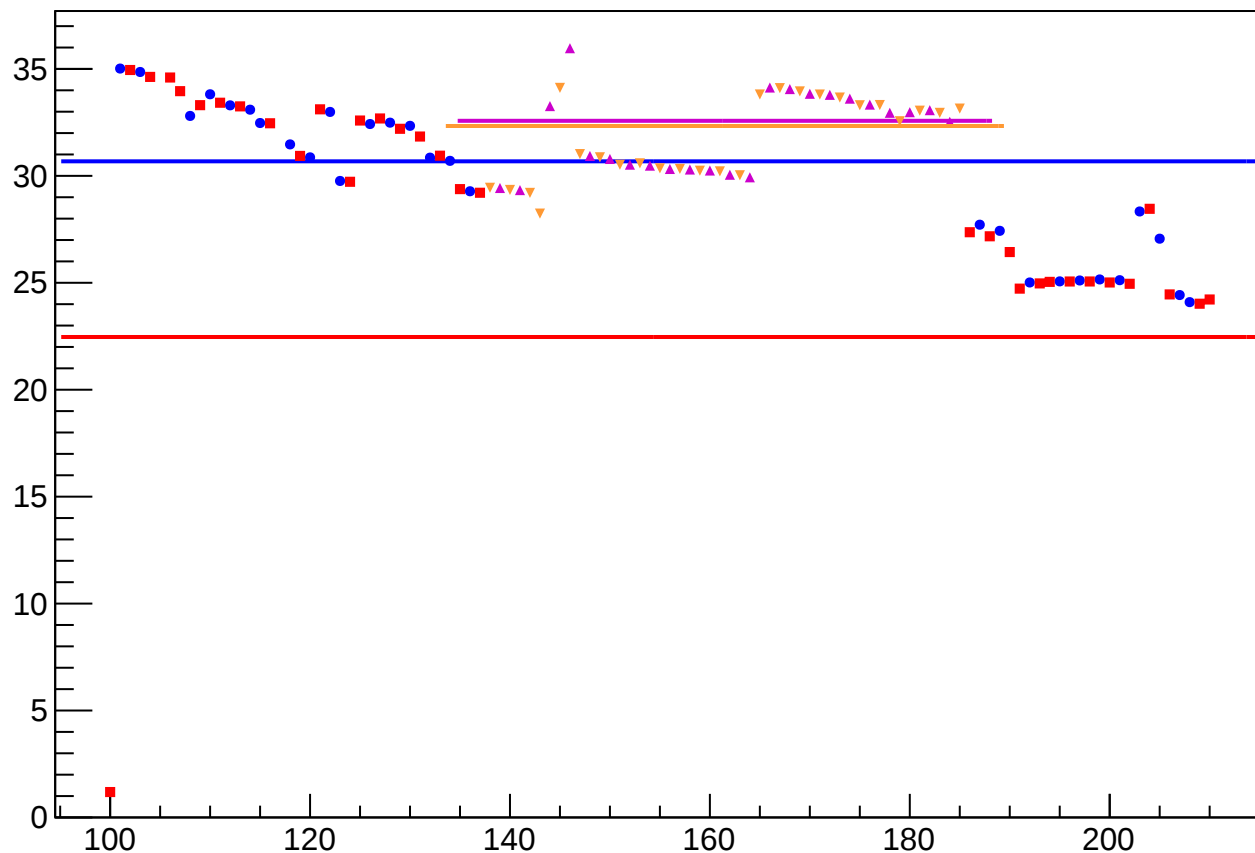
Right: 0.173+/-0.000 χ^2/NDF : 11819292.3/60

In: 0.120+/-0.000 χ^2/NDF : 8434343.6/50

Out: 0.122+/-0.000 χ^2/NDF : 10170381.9/57

All: 0.121+/-0.000 χ^2/NDF : 18608651.1/108

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.679+/-0.000

χ^2/NDF : 7371219058.9/27

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

Right: 25.846+/-0.000 χ^2/NDF : 275106826421.1/60

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

In: 32.222+/-0.000 χ^2/NDF : 21783614307.9/50

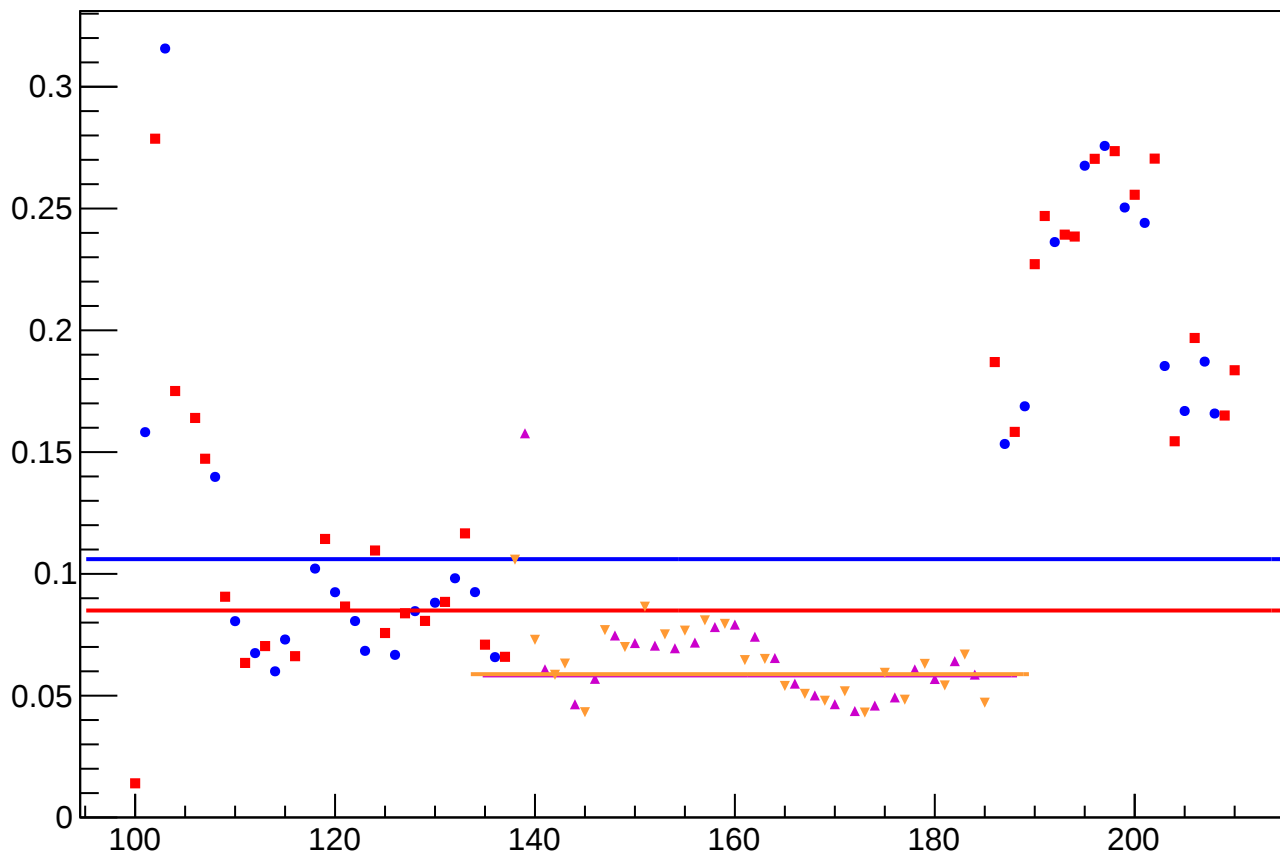
Right Out: 22.466+/-0.000 χ^2/NDF : 232226840423.5/32

Out: 29.984+/-0.000 χ^2/NDF : 339925110505.2/57

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

All: 31.041+/-0.000 χ^2/NDF : 374429192286.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.000 χ^2 /NDF: 5781803.7/27

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.085 $\pm$ 0.000 χ^2 /NDF: 11356553.0/32

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

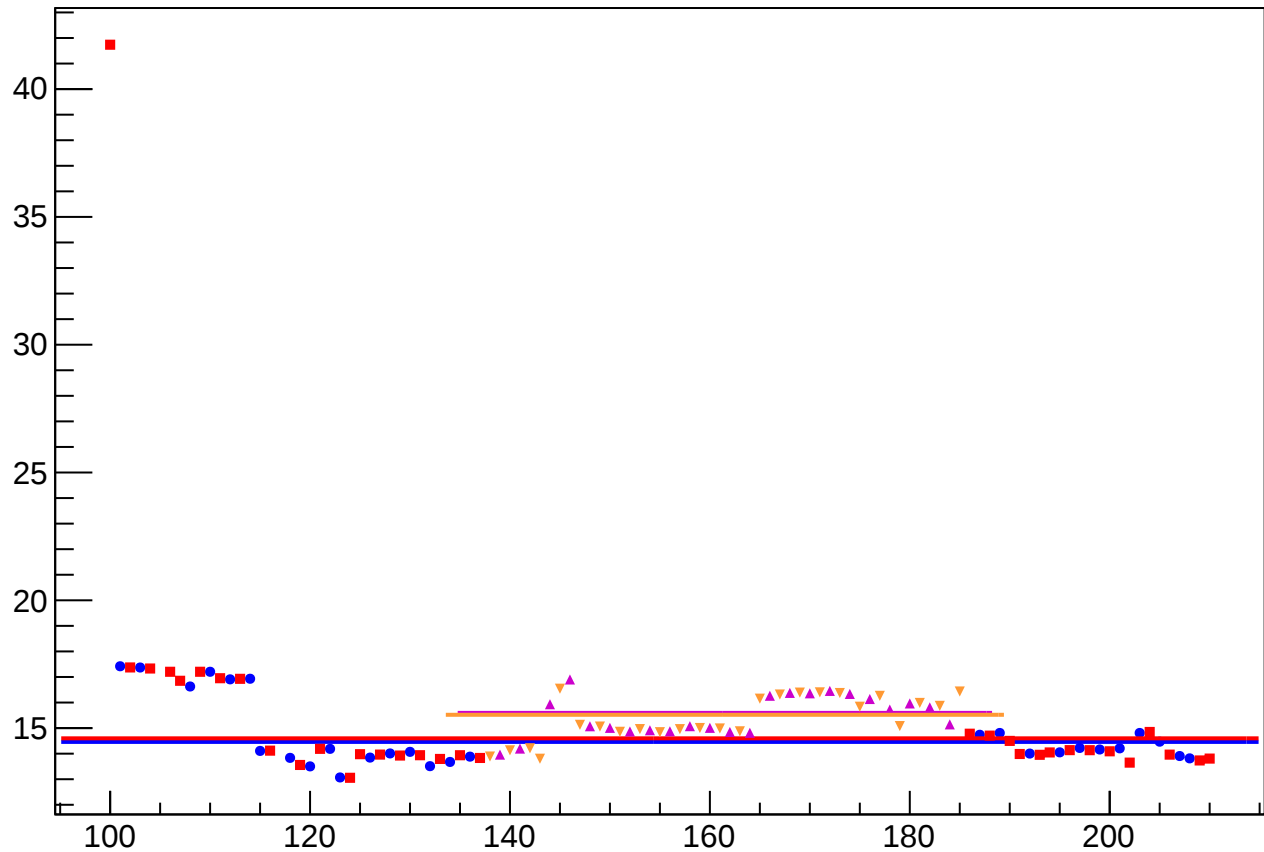
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 17606451.9/60

In: 0.067 $\pm$ 0.000 χ^2 /NDF:10626776.0/50

Out: 0.065 $\pm$ 0.000 χ^2 /NDF:14090637.9/57

All: 0.066 $\pm$ 0.000 χ^2 /NDF: 24740626.1/108

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.460+/-0.000

χ^2/NDF : 1528899323.9/27

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right Out: 14.600+/-0.000

χ^2/NDF : 2027155101.6/32

Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Right: 14.530+/-0.000

χ^2/NDF : 3566653049.7/60

In: 15.323+/-0.000

χ^2/NDF : 4499206397.0/50

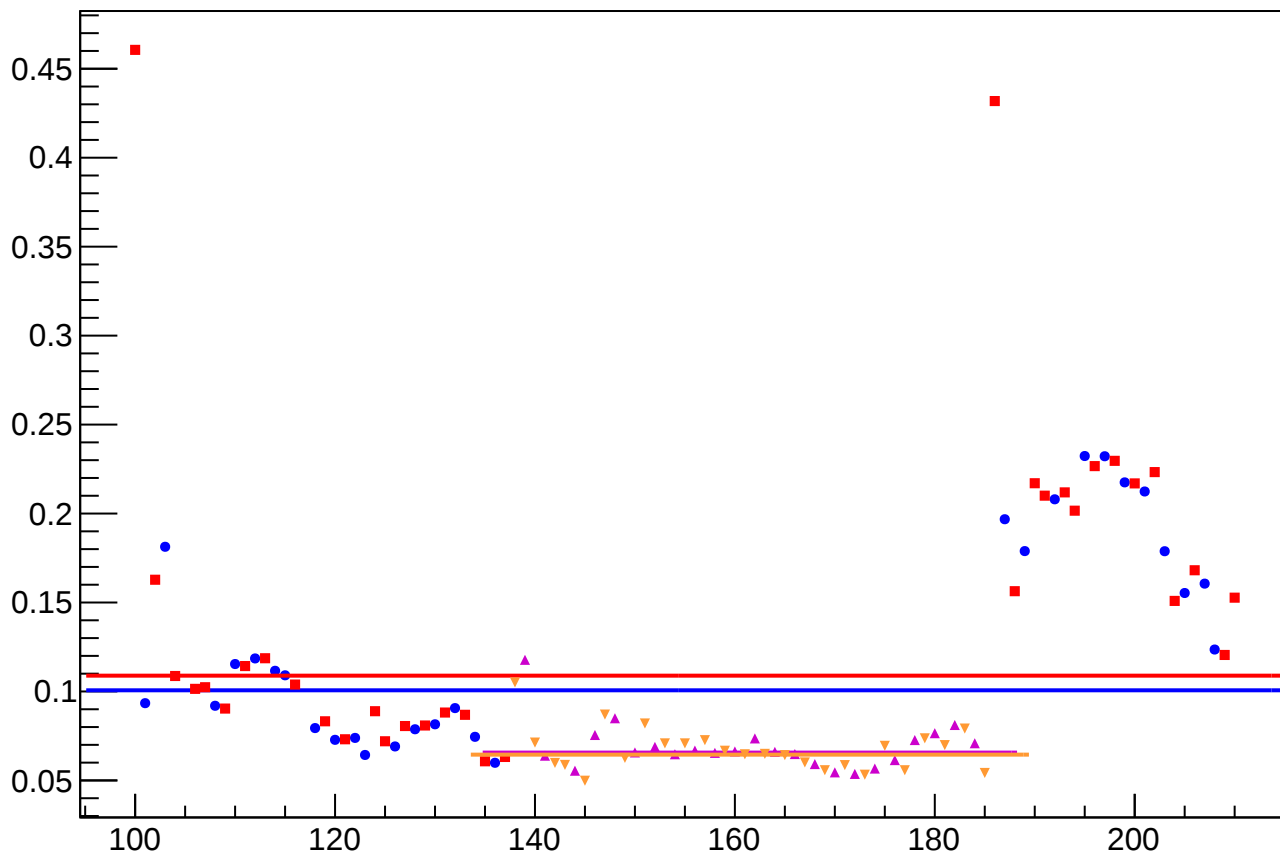
Out: 15.315+/-0.000

χ^2/NDF : 5330386556.7/57

All: 15.319+/-0.000

χ^2/NDF : 9829757866.6/100

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.101 $\pm$ 0.000 χ^2 /NDF: 4841202.8/27

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.109 $\pm$ 0.000 χ^2 /NDF: 5109315.5/32

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

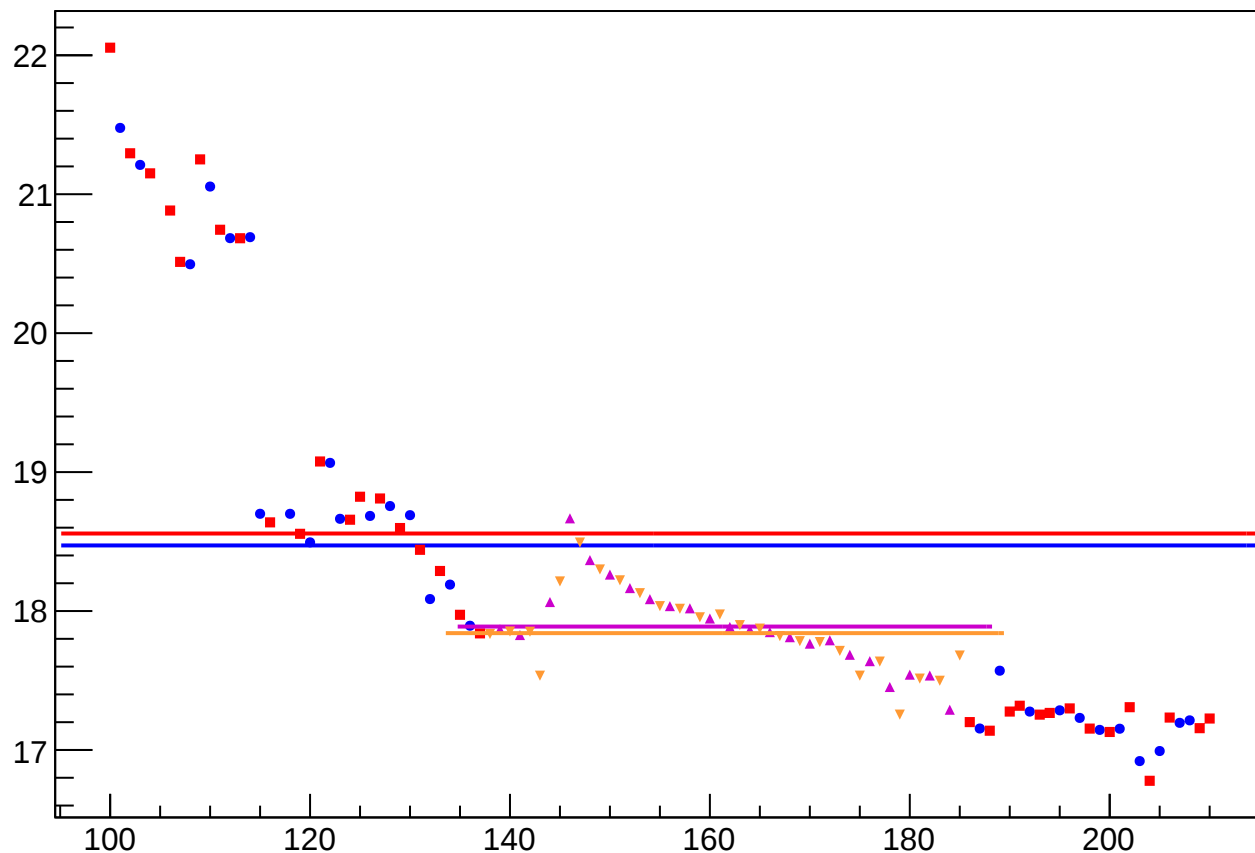
Right: 0.105 $\pm$ 0.000 χ^2 /NDF: 10023762.3/60

In: 0.074 $\pm$ 0.000 χ^2 /NDF: 7574961.5/50

Out: 0.074 $\pm$ 0.000 χ^2 /NDF: 9177561.6/57

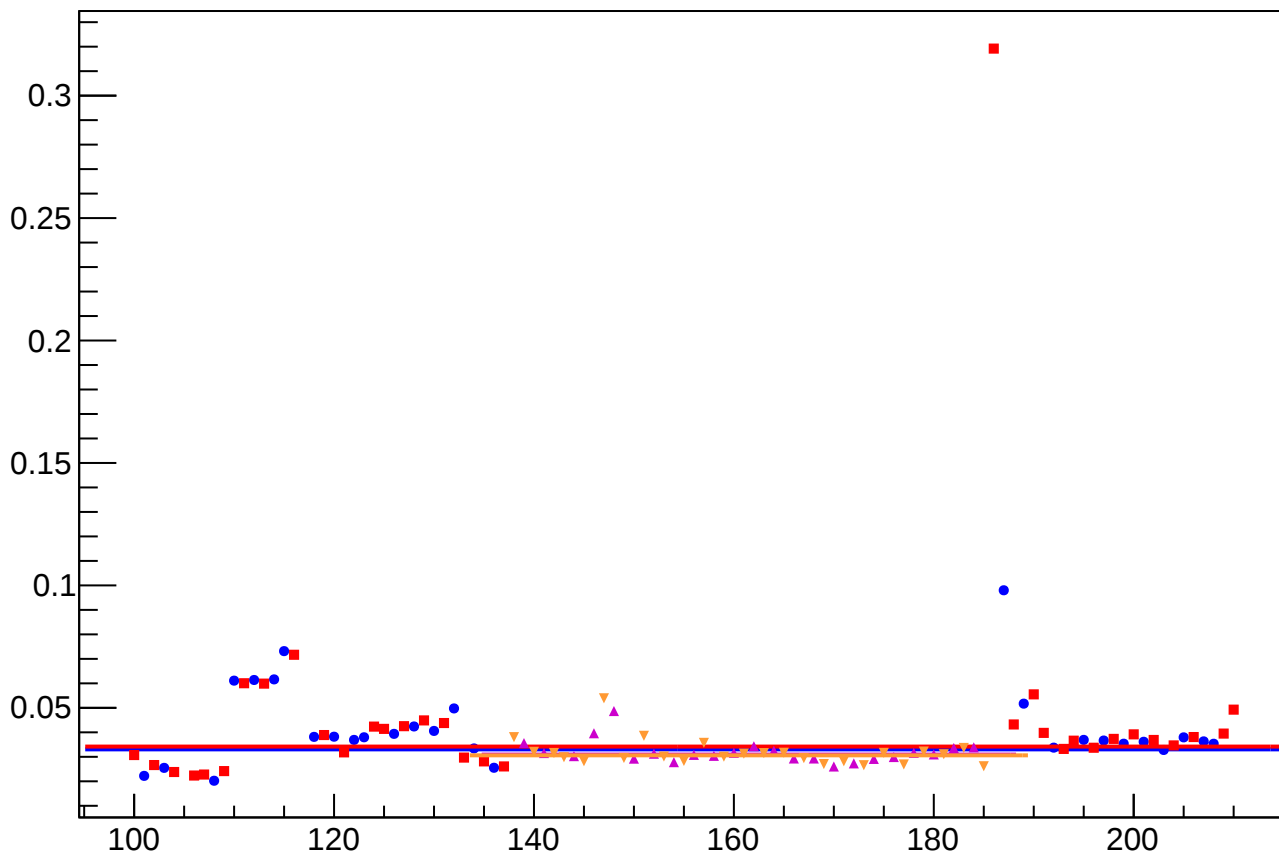
All: 0.074 $\pm$ 0.000 χ^2 /NDF: 16753246.7/108

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.472+/-0.000	χ^2/NDF : 30906158936.8/27	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.516+/-0.000	χ^2/NDF : 64666685118.1/60
Right Out: 18.558+/-0.000	χ^2/NDF : 33716206952.5/32	In: 18.124+/-0.000	χ^2/NDF : 34495493909.7/50
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.126+/-0.000	χ^2/NDF : 38810142770.2/57
		All: 18.125+/-0.000	χ^2/NDF : 73305729344.3

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2 /NDF: 1740551.8/27

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.034 $\pm$ 0.000 χ^2 /NDF: 2314182.0/32

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

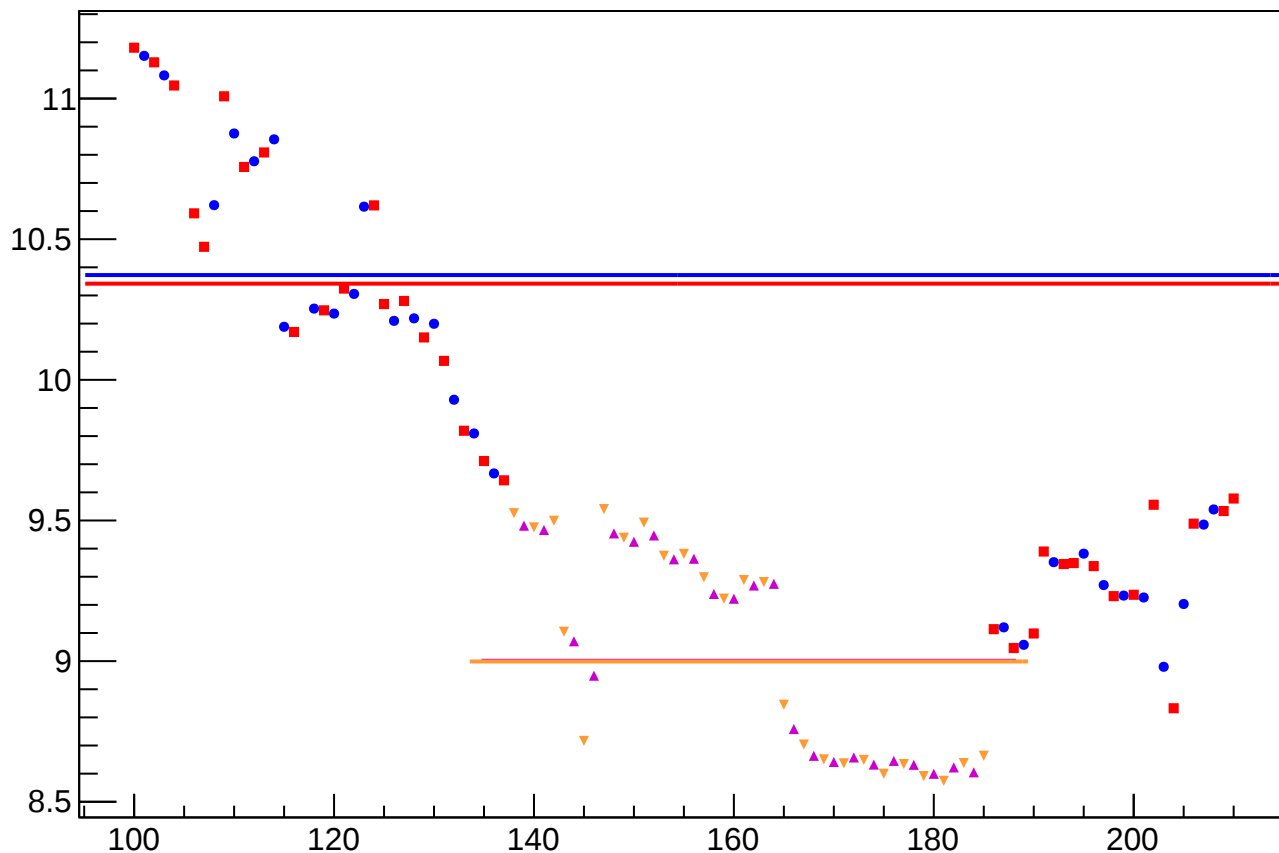
Right: 0.034 $\pm$ 0.000 χ^2 /NDF: 4070358.8/60

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2258320.3/50

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:3094286.4/57

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5354709.2/108

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.373+/-0.000 χ^2/NDF : 14639211714.4/27

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.342+/-0.000 χ^2/NDF : 13568884994.7/32

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

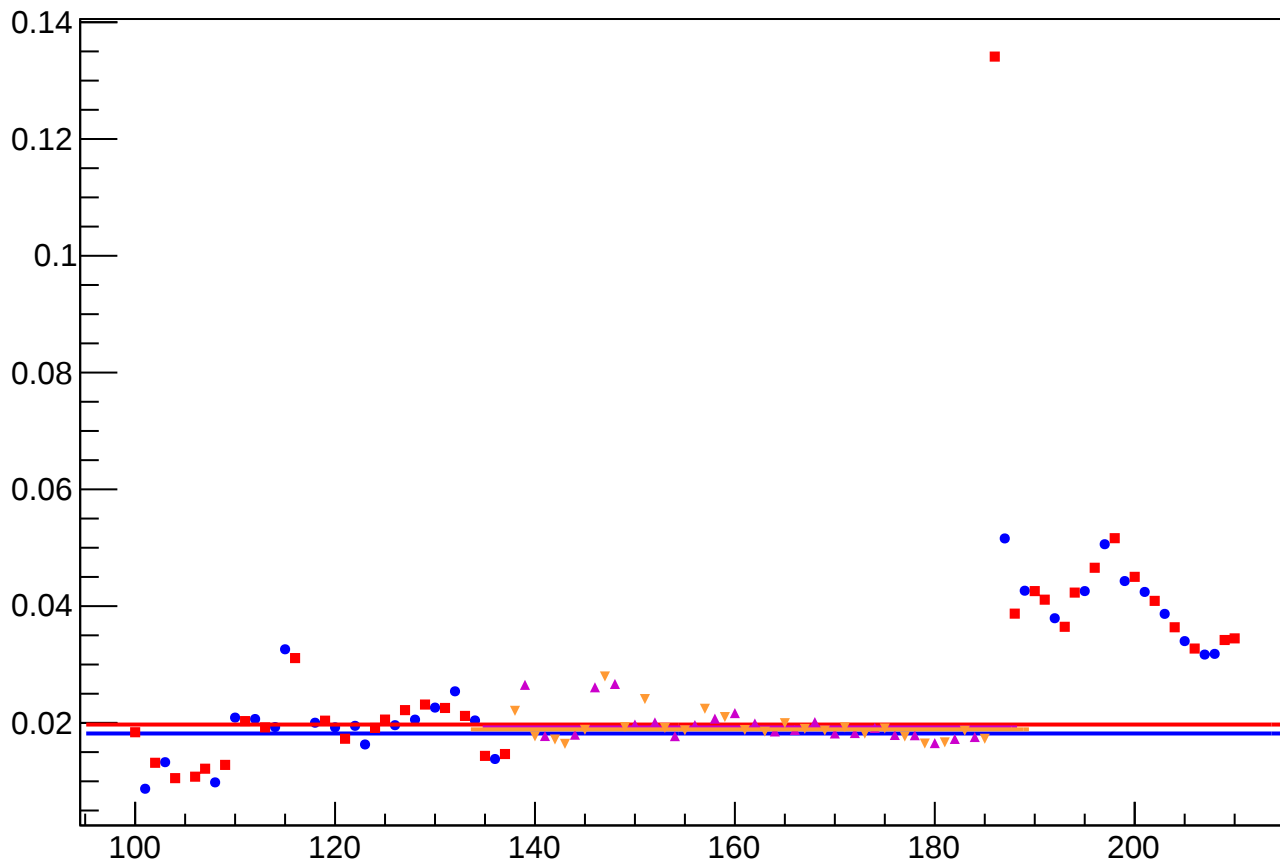
Right: 10.357+/-0.000 χ^2/NDF : 28222674900.6/60

In: 9.578+/-0.000 χ^2/NDF : 53827842582.4/50

Out: 9.533+/-0.000 χ^2/NDF : 53672483153.4/57

All: 9.555+/-0.000 χ^2/NDF : 107578326182.5

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 6578191.3/27

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7009784.8/32

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

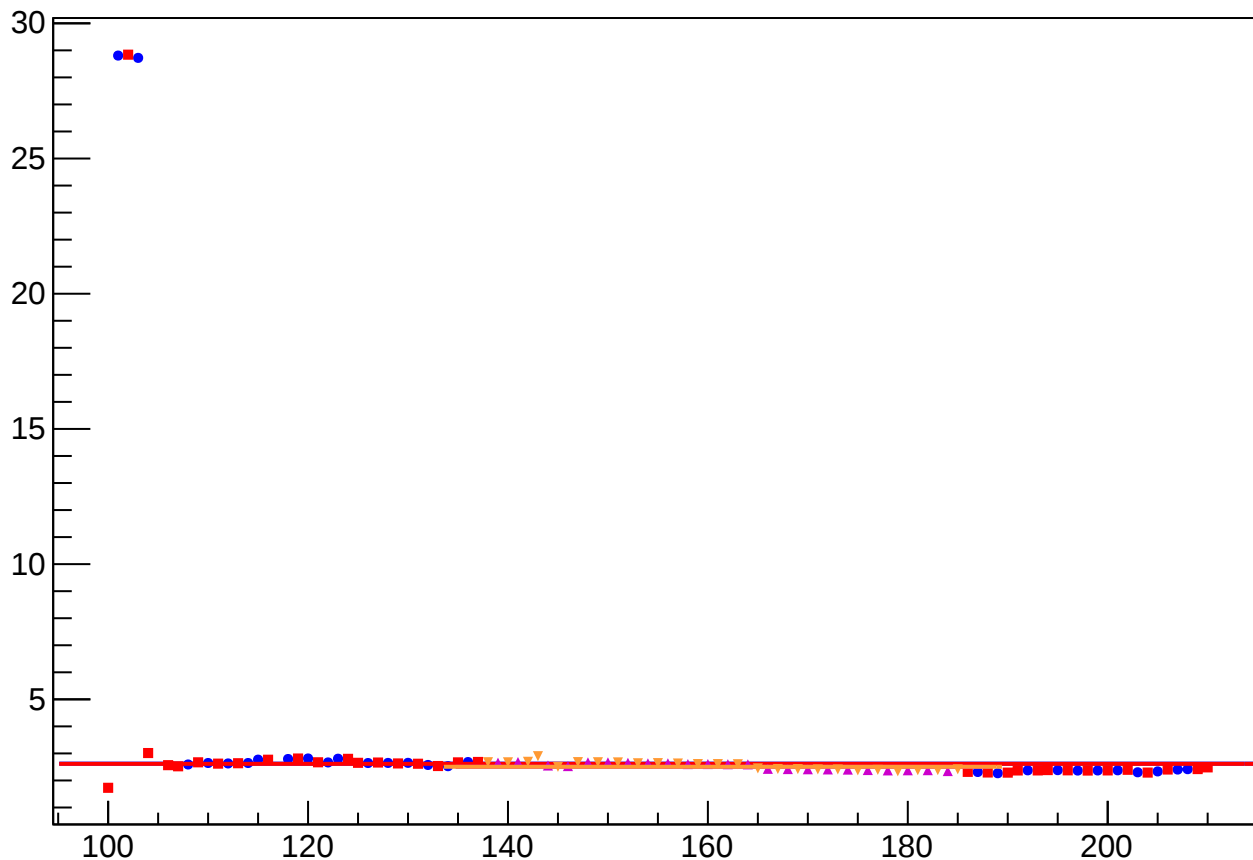
Right: 0.019+/-0.000 χ^2/NDF : 13660847.7/60

In: 0.019+/-0.000 χ^2/NDF : 7098664.4/50

Out: 0.019+/-0.000 χ^2/NDF : 7463294.5/57

All: 0.019+/-0.000 χ^2/NDF : 14576374.0/108

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.622+/-0.000

χ^2/NDF : 180451565625.7/27

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

Right: 2.619+/-0.000 χ^2/NDF : 270848711232.1/60

Left Out: 2.507+/-0.000

χ^2/NDF : 64277969186.7/24

In: 2.543+/-0.000 χ^2/NDF : 237857835474.2/50

Right Out: 2.615+/-0.000

χ^2/NDF : 90350794257.9/32

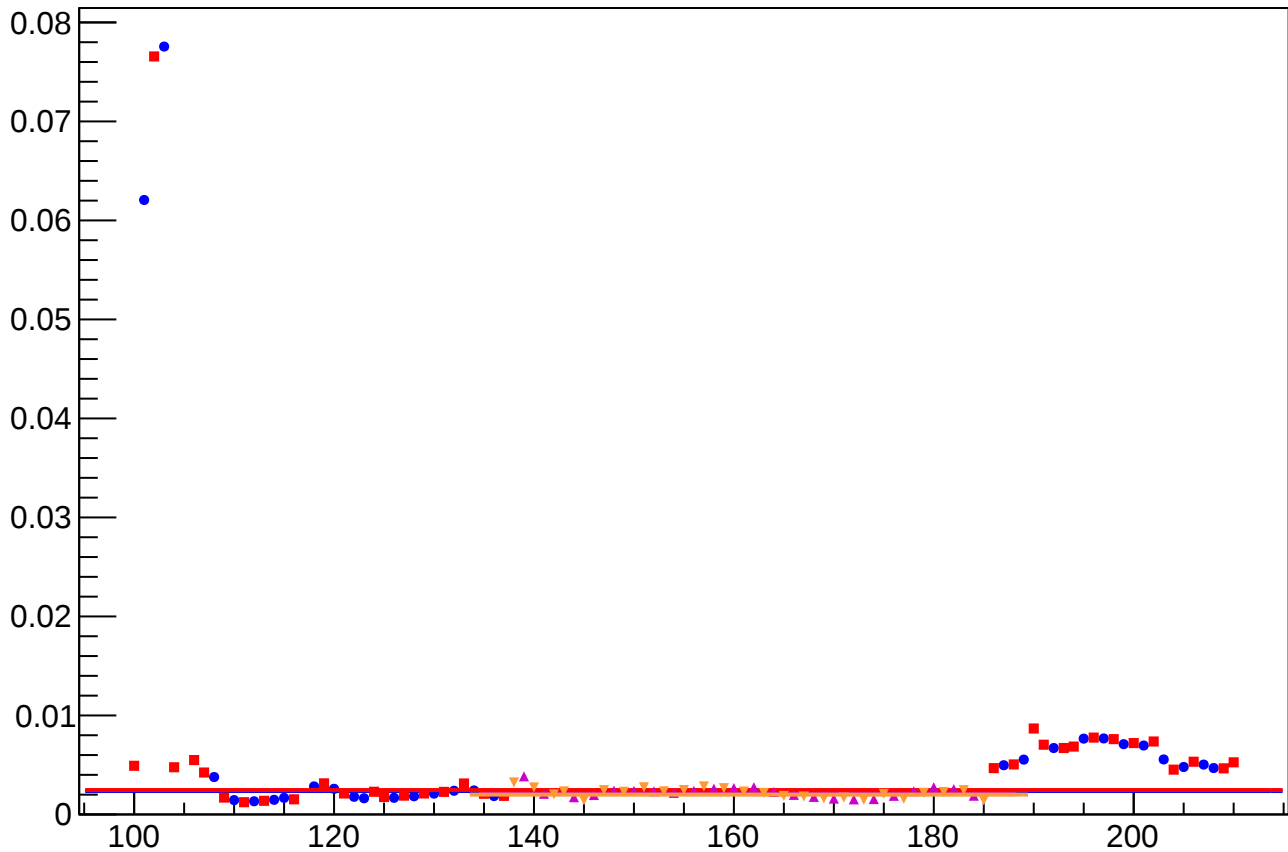
Out: 2.541+/-0.000 χ^2/NDF : 168047775906.6/57

Left In: 2.505+/-0.000

χ^2/NDF : 42893630742.5/22

All: 2.542+/-0.000 χ^2/NDF : 405918696289.5

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9083663.8/27

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9865402.0/32

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

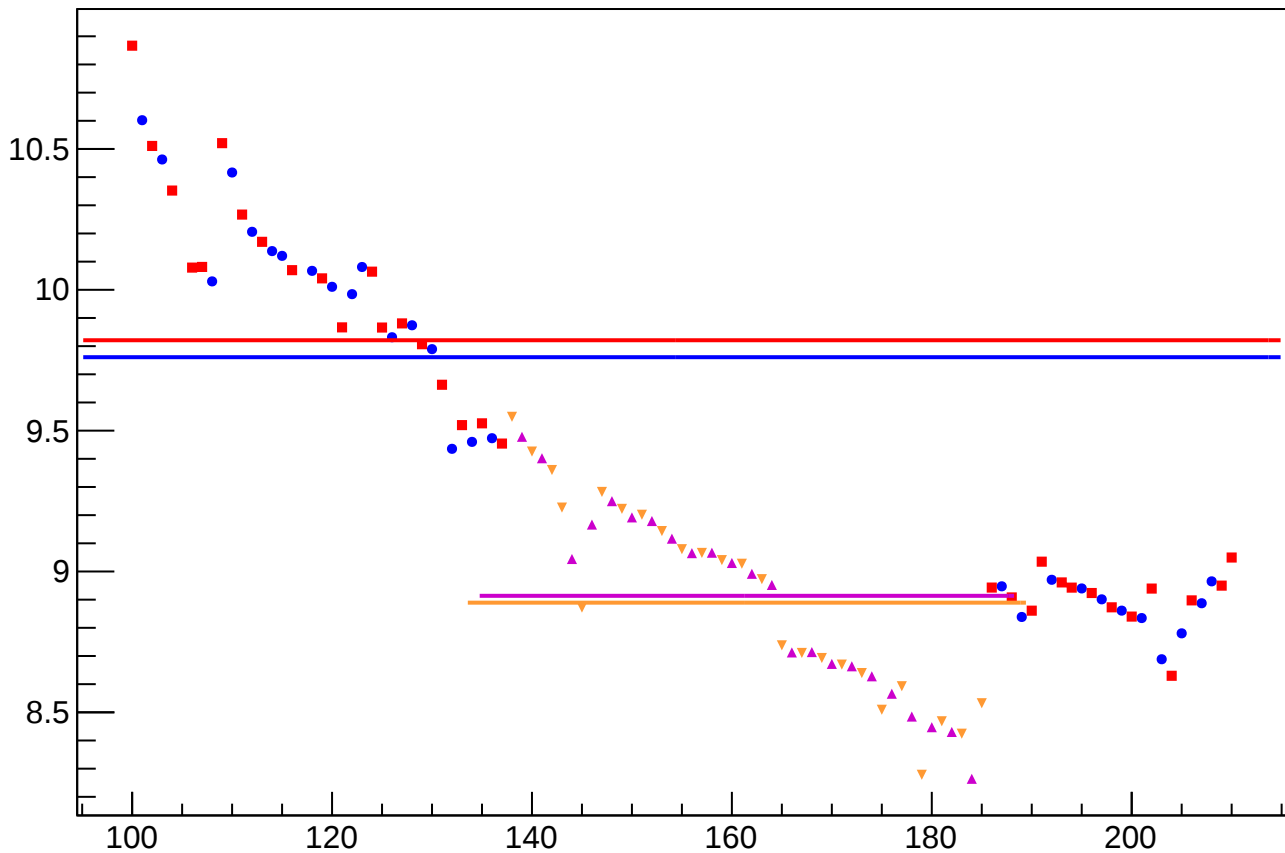
Right: 0.002+/-0.000 χ^2/NDF : 18964330.8/60

In: 0.002+/-0.000 χ^2/NDF :10587427.3/50

Out: 0.002+/-0.000 χ^2/NDF :11814522.7/57

All: 0.002+/-0.000 χ^2/NDF : 22402244.7/108

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.761 +/- 0.000

χ^2/NDF : 65315225618.9/27

Left: 8.901 +/- 0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889 +/- 0.000

χ^2/NDF : 34704694045.9/24

Right: 9.792 +/- 0.000

χ^2/NDF : 139161285714.8/60

Right Out: 9.821 +/- 0.000

χ^2/NDF : 73418515947.5/32

In: 9.249 +/- 0.000

χ^2/NDF : 192592184497.9/50

Out: 9.242 +/- 0.000

χ^2/NDF : 240418700016.9/57

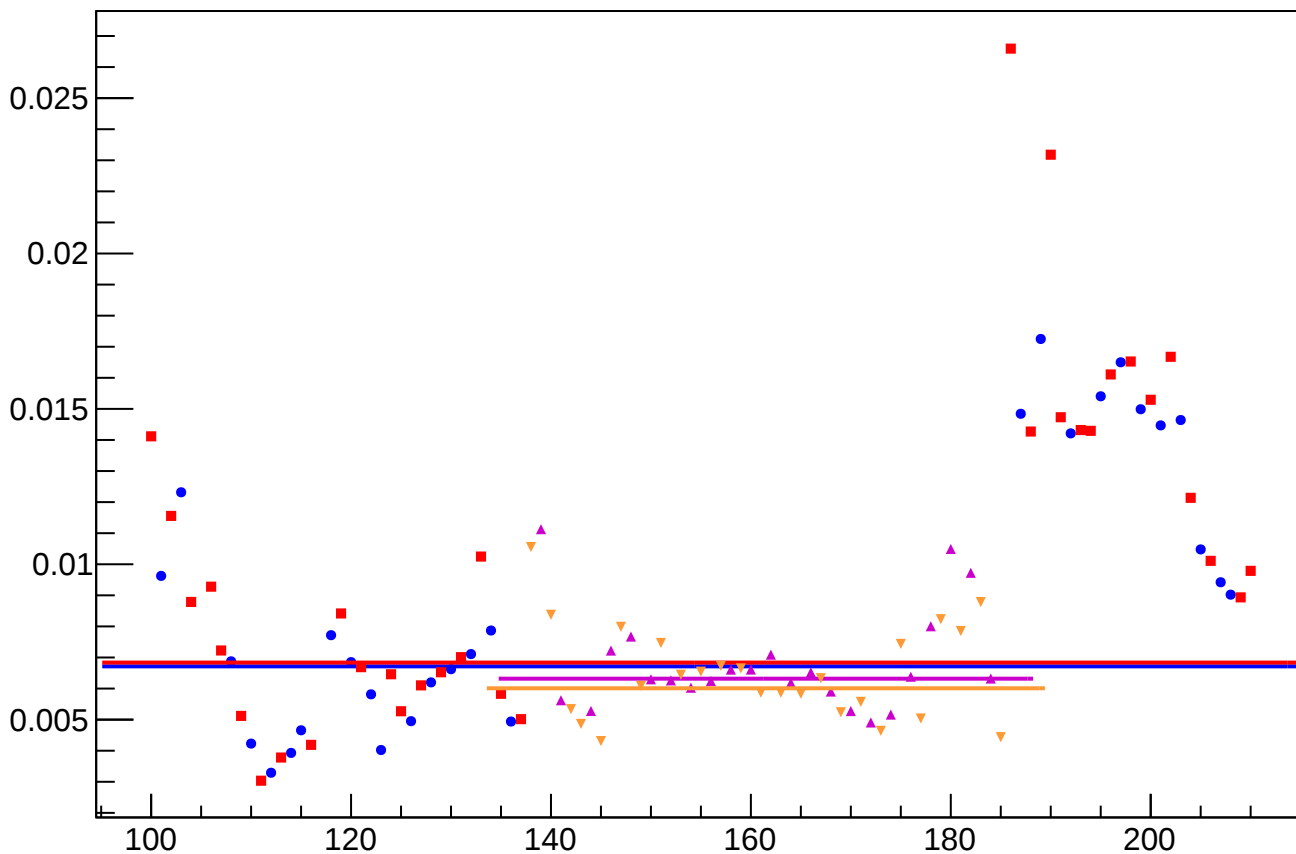
Left In: 8.914 +/- 0.000

χ^2/NDF : 28497227562.7/22

All: 9.245 +/- 0.000

χ^2/NDF : 433023850552.8

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5726100.2/27

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7400372.3/32

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

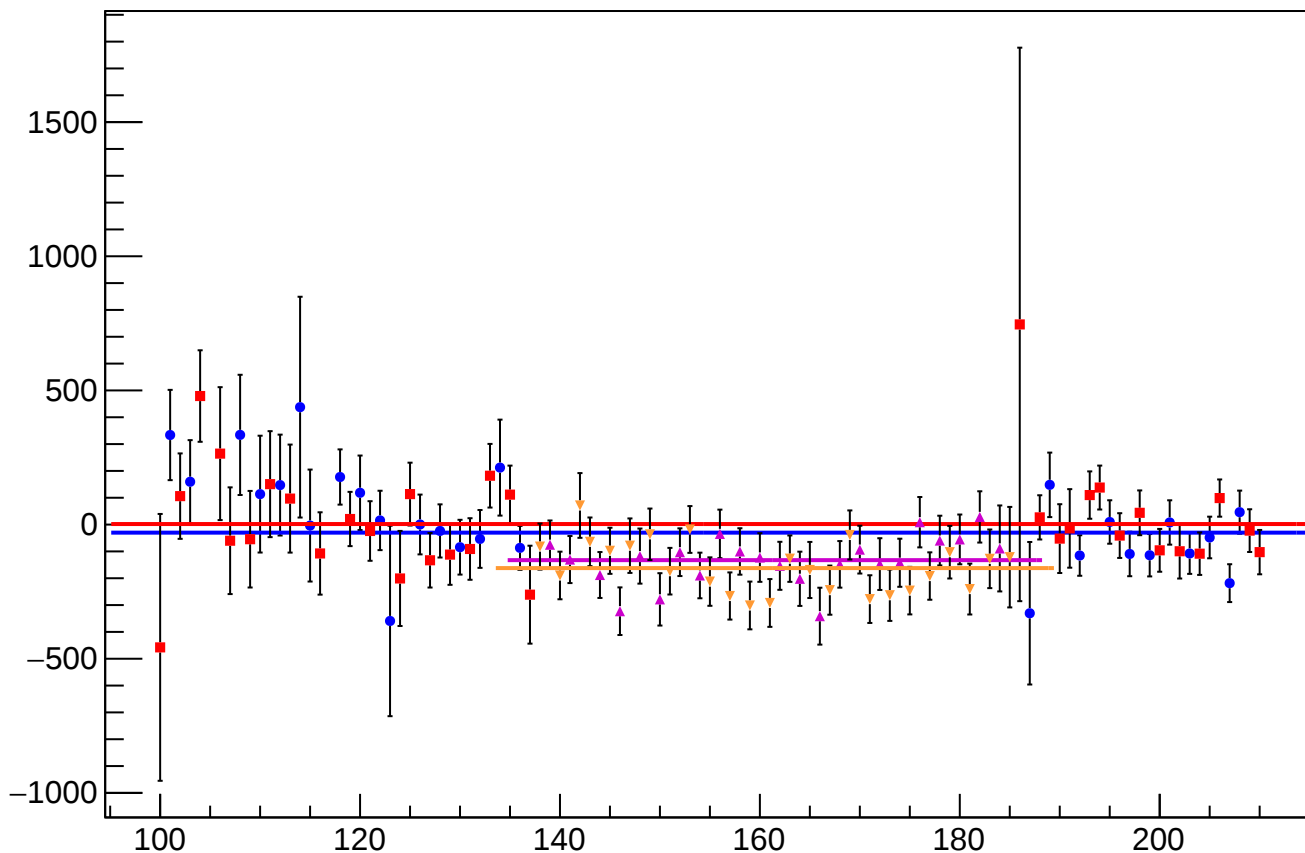
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13129988.1/60

In: 0.006 $\pm$ 0.000 χ^2 /NDF:6856417.4/50

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8921606.1/57

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 15792189.8/108

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -30.058 ± 19.939 $\chi^2/\text{NDF}: 36.8/27$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 2.004 ± 19.204 $\chi^2/\text{NDF}: 36.6/32$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

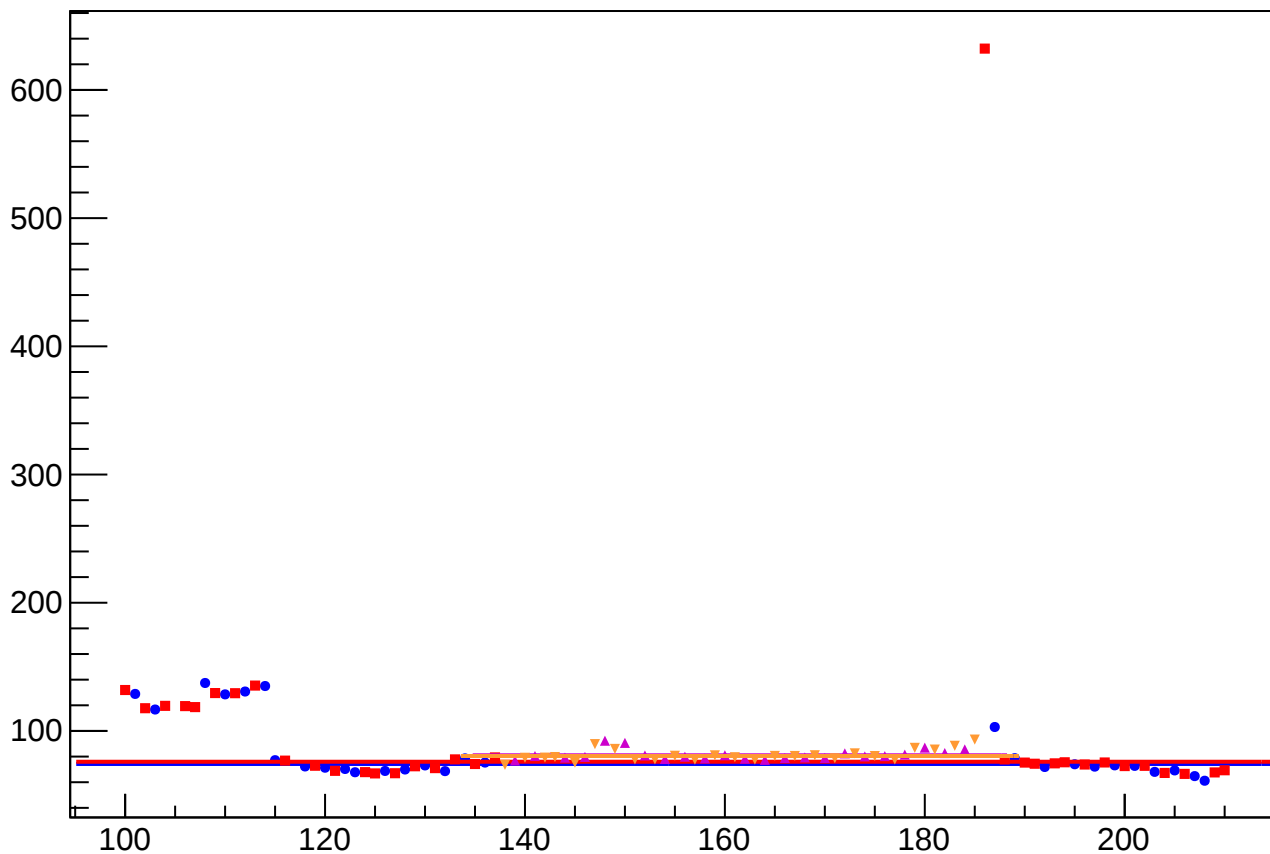
Right: -13.424 ± 13.832 $\chi^2/\text{NDF}: 74.7/60$

In: -82.704 ± 13.906 $\chi^2/\text{NDF}: 71.1/50$

Out: -82.063 ± 13.414 $\chi^2/\text{NDF}: 99.7/57$

All: -82.372 ± 9.654 $\chi^2/\text{NDF}: 170.8/108$

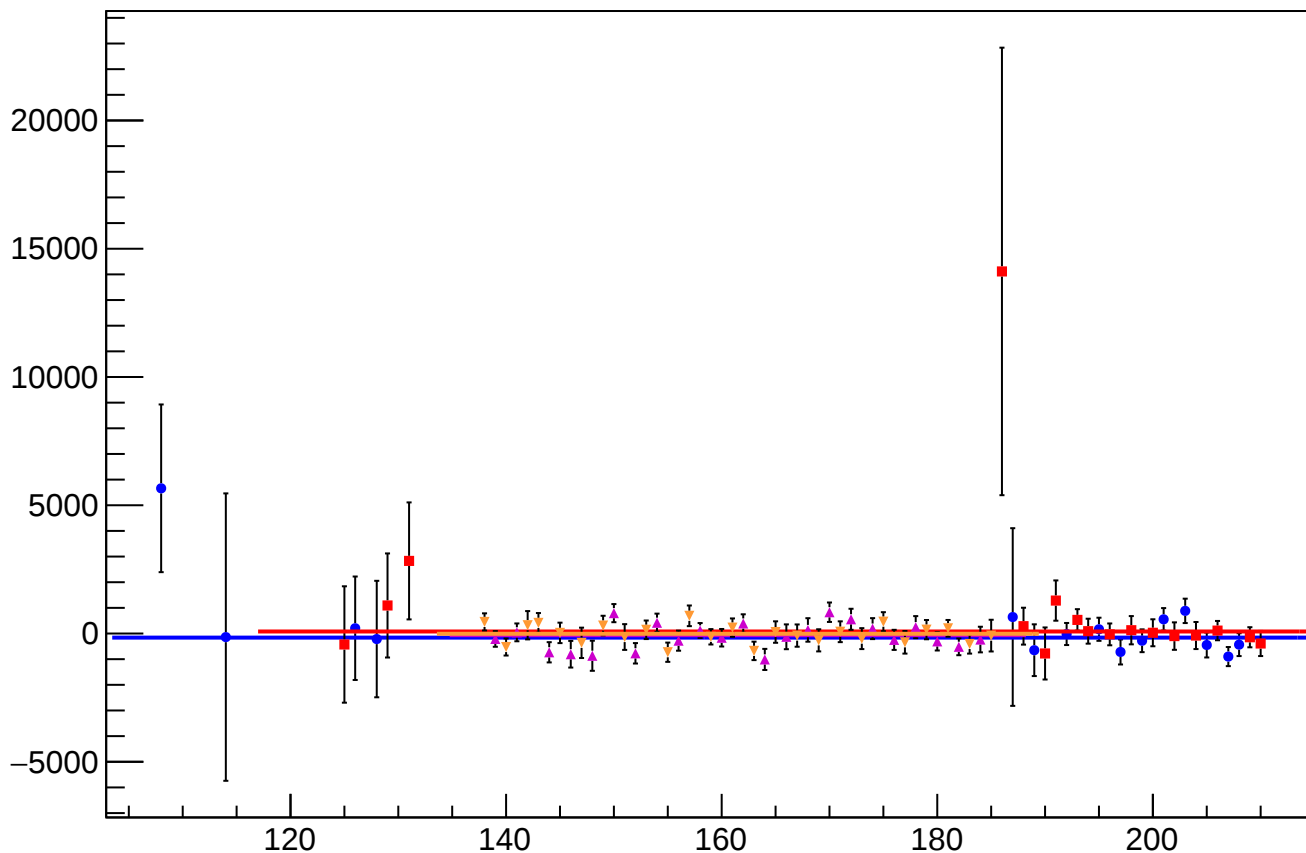
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 74.239+/-0.014 χ^2/NDF : 1030861.6/27
Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24
Right Out: 75.975+/-0.014 χ^2/NDF : 1681225.4/32
Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47
Right: 75.140+/-0.010 χ^2/NDF : 2719954.5/60
In: 77.719+/-0.010 χ^2/NDF : 1221703.0/50
Out: 78.271+/-0.009 χ^2/NDF : 1826994.0/57
All: 78.005+/-0.007 χ^2/NDF : 3050332.4/108

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -159.557 ± 145.329 $\chi^2/\text{NDF}: 17.6/14$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: 79.392 ± 138.150 $\chi^2/\text{NDF}: 10.2/16$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

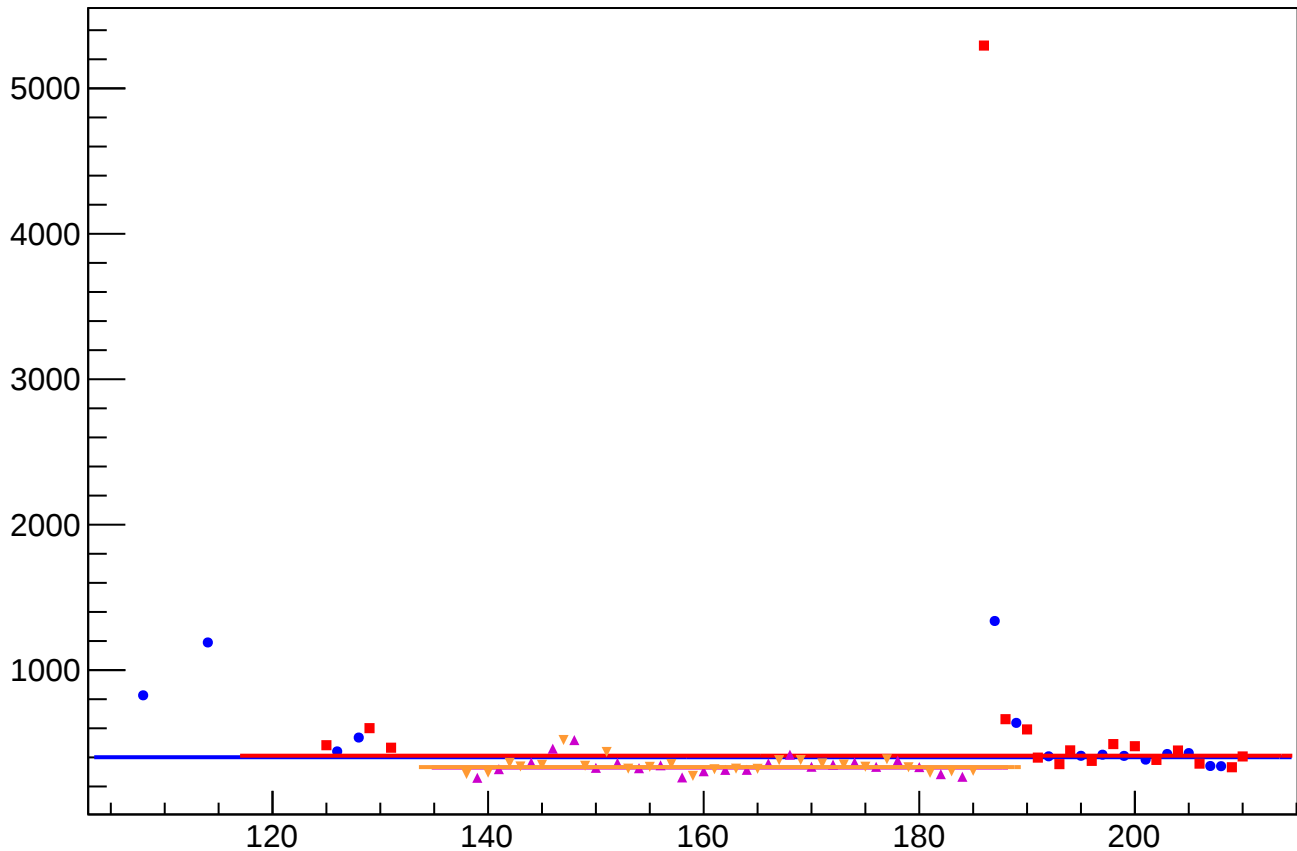
Right: -34.035 ± 100.128 $\chi^2/\text{NDF}: 29.3/31$

In: -86.696 ± 70.114 $\chi^2/\text{NDF}: 55.4/37$

Out: 11.405 ± 68.179 $\chi^2/\text{NDF}: 33.1/41$

All: -36.273 ± 48.880 $\chi^2/\text{NDF}: 89.5/79$

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 401.142+/-0.103 χ^2/NDF : 446966.2/14

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 411.671+/-0.098 χ^2/NDF : 1231656.1/16

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

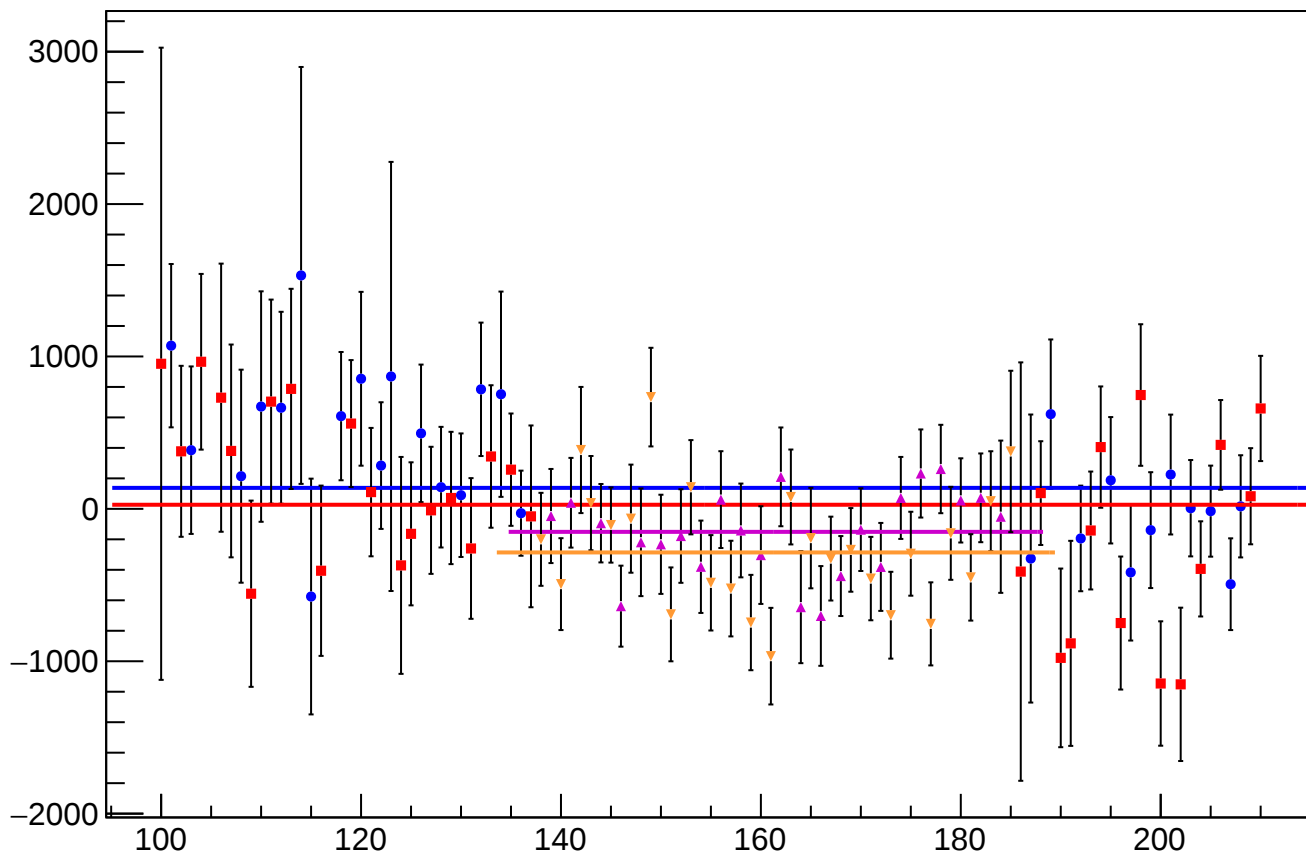
Right: 406.673+/-0.071 χ^2/NDF : 1684136.8/31

In: 346.548+/-0.050 χ^2/NDF : 1610804.7/37

Out: 352.338+/-0.048 χ^2/NDF : 2311487.4/41

All: 349.524+/-0.035 χ^2/NDF : 3929301.0/79

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 137.710 ± 82.495 $\chi^2/\text{NDF}: 22.8/27$

Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$

Right Out: 26.942 ± 80.072 $\chi^2/\text{NDF}: 43.7/32$

Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$

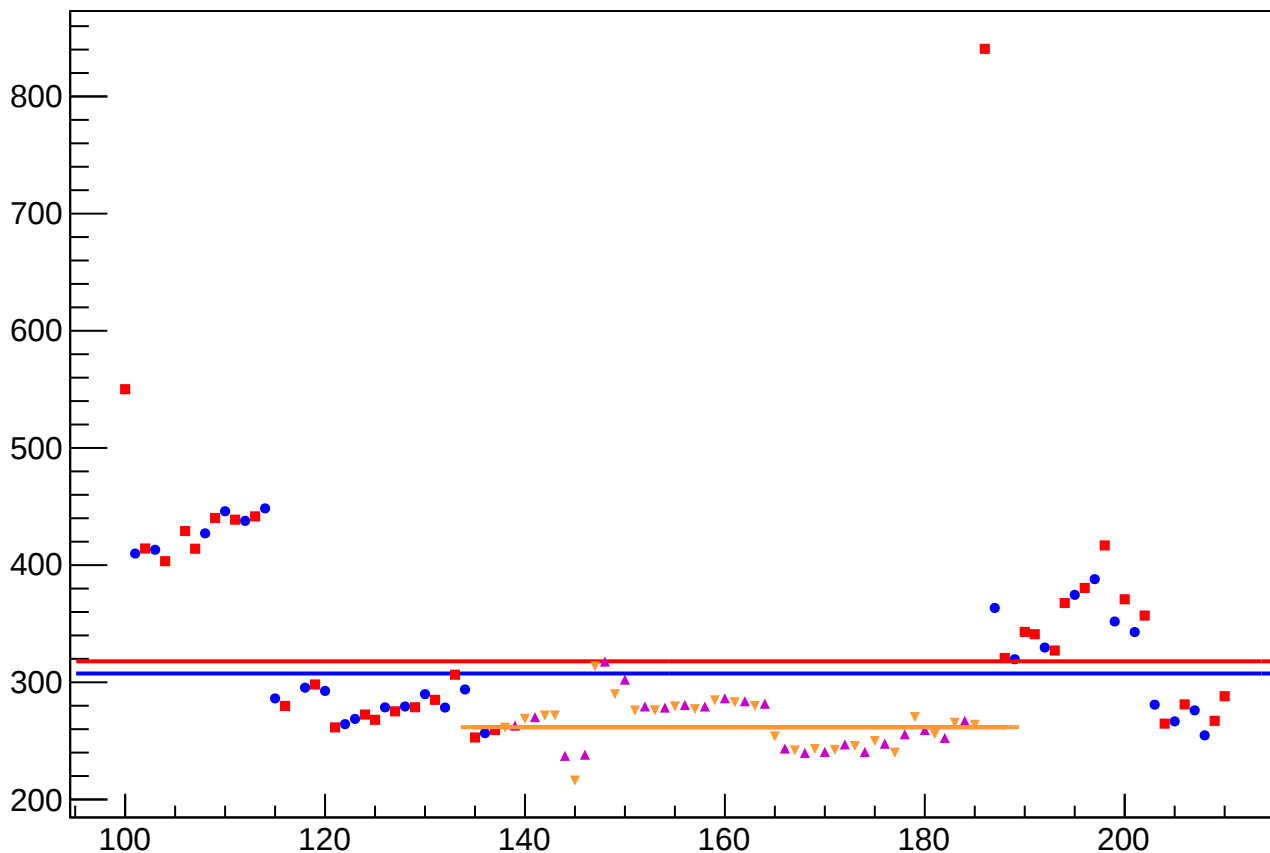
Right: 80.675 ± 57.457 $\chi^2/\text{NDF}: 67.5/60$

In: -44.985 ± 49.978 $\chi^2/\text{NDF}: 49.3/50$

Out: -170.871 ± 48.571 $\chi^2/\text{NDF}: 90.0/57$

All: -109.725 ± 34.832 $\chi^2/\text{NDF}: 142.5/108$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 307.502+/-0.058 χ^2/NDF : 805431.1/27

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 317.896+/-0.057 χ^2/NDF : 1286920.4/32

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

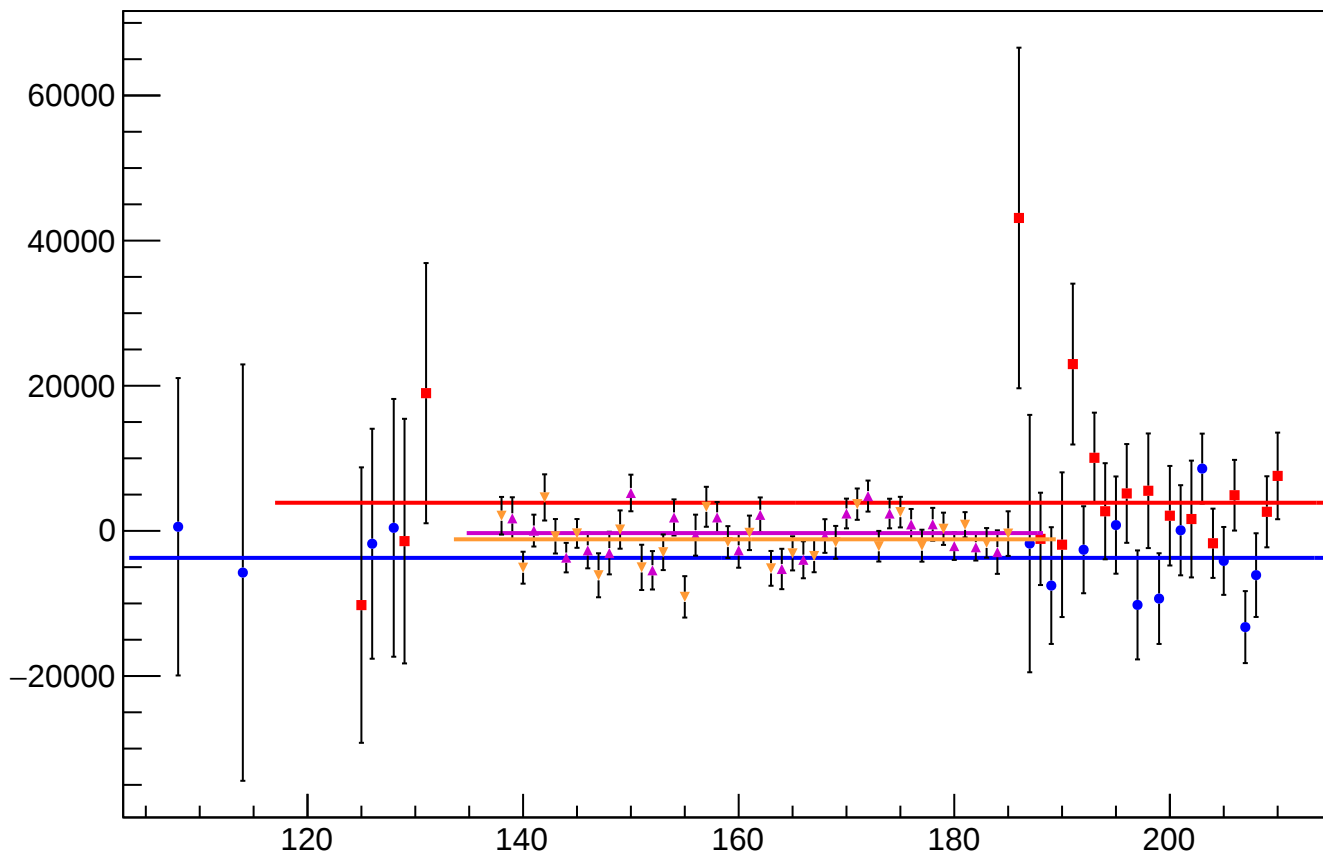
Right: 312.854+/-0.041 χ^2/NDF : 2108699.4/60

In: 278.470+/-0.035 χ^2/NDF : 1424992.3/50

Out: 282.391+/-0.034 χ^2/NDF : 2142290.0/57

All: 280.487+/-0.025 χ^2/NDF : 3573612.6/108

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3720.173+/-1801.162 χ^2/NDF : 13.2/14

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 3877.109+/-1733.127 χ^2/NDF : 11.2/16

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

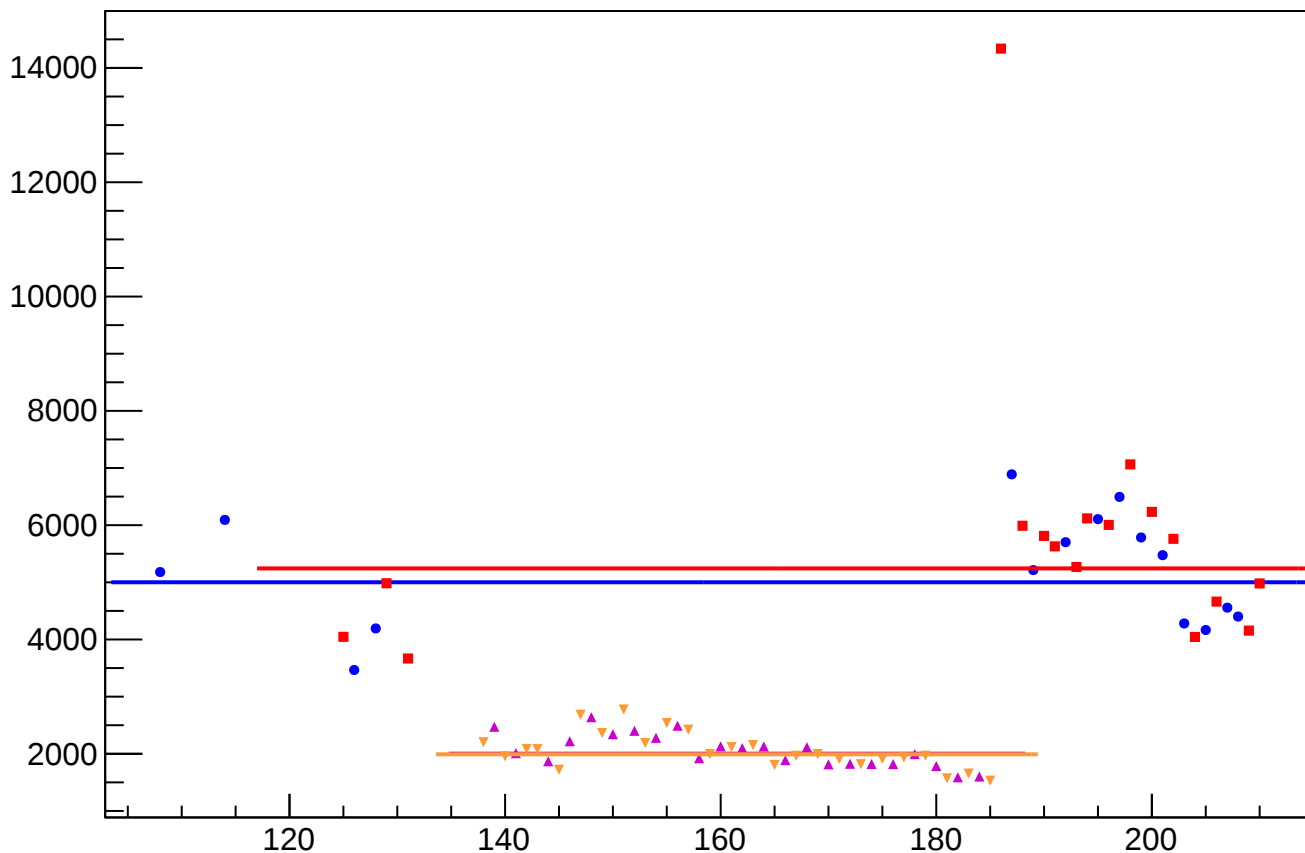
Right: 224.662+/-1248.865 χ^2/NDF : 33.6/31

In: -534.208+/-467.219 χ^2/NDF : 51.9/37

Out: -817.599+/-452.749 χ^2/NDF : 57.8/41

All: -680.359+/-325.137 χ^2/NDF : 109.9/79

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5001.279+/-1.274 χ^2/NDF : 400058.5/14

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5243.620+/-1.226 χ^2/NDF : 834089.6/16

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

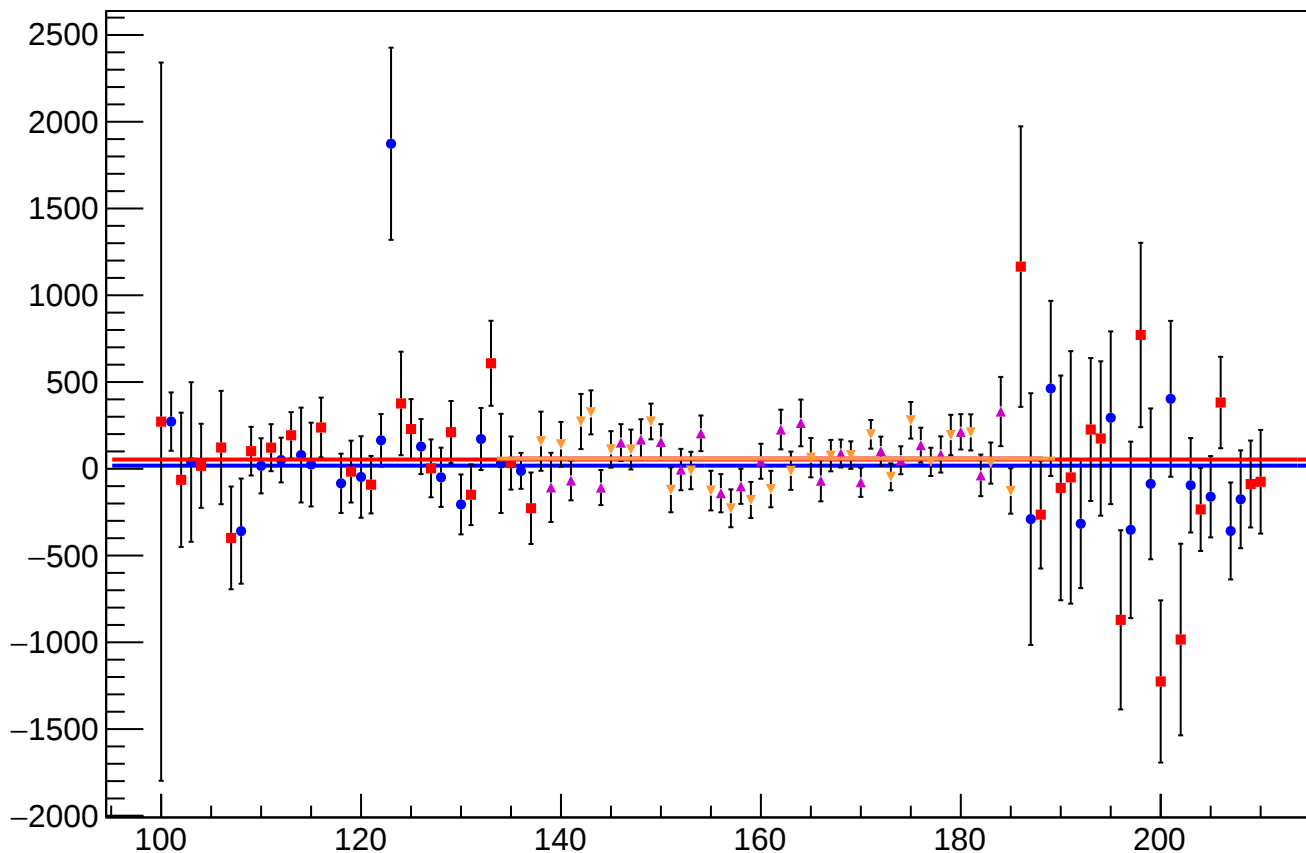
Right: 5127.113+/-0.883 χ^2/NDF : 1252947.7/31

In: 2203.958+/-0.330 χ^2/NDF : 6158039.3/37

Out: 2213.064+/-0.320 χ^2/NDF : 8123529.6/41

All: 2208.654+/-0.230 χ^2/NDF : 14281960.8/71

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.044 $\pm$ 40.368 χ^2 /NDF: 26.1/27

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF: 46.9/24

Right Out: 53.369 $\pm$ 39.627 χ^2 /NDF: 40.3/32

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

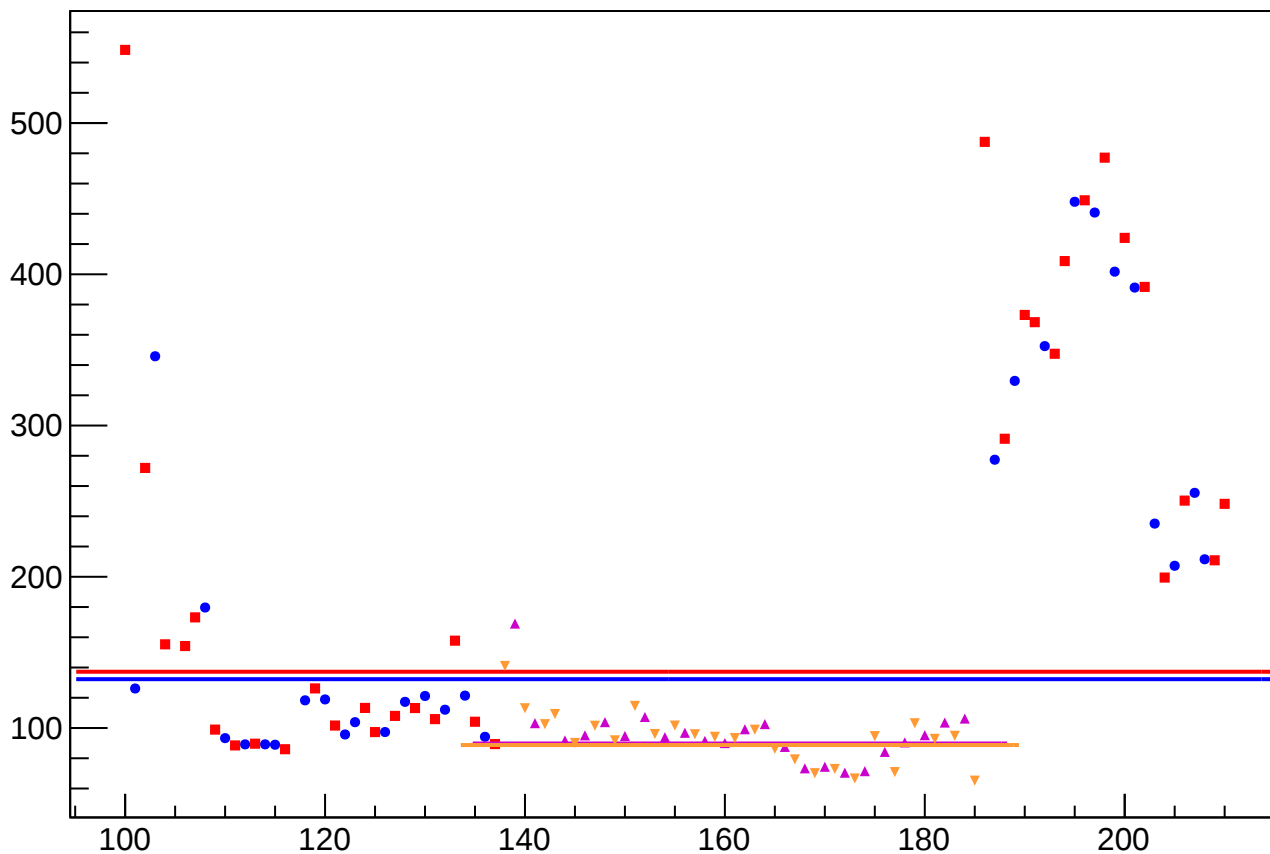
Right: 36.034 $\pm$ 28.279 χ^2 /NDF: 66.8/60

In: 49.854 $\pm$ 19.264 χ^2 /NDF: 56.3/50

Out: 57.739 $\pm$ 18.650 χ^2 /NDF: 87.2/57

All: 53.924 $\pm$ 13.399 χ^2 /NDF: 143.6/108

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 132.290 +/- 0.029 χ^2/NDF : 6606499.4/27

Left Out: 88.748 +/- 0.015 χ^2/NDF : 1079338.8/24

Right Out: 137.209 +/- 0.028 χ^2/NDF : 8084989.9/32

Left In: 89.766 +/- 0.016 χ^2/NDF : 885818.0/22

Left: 89.238 +/- 0.011 χ^2/NDF : 1967390.0/47

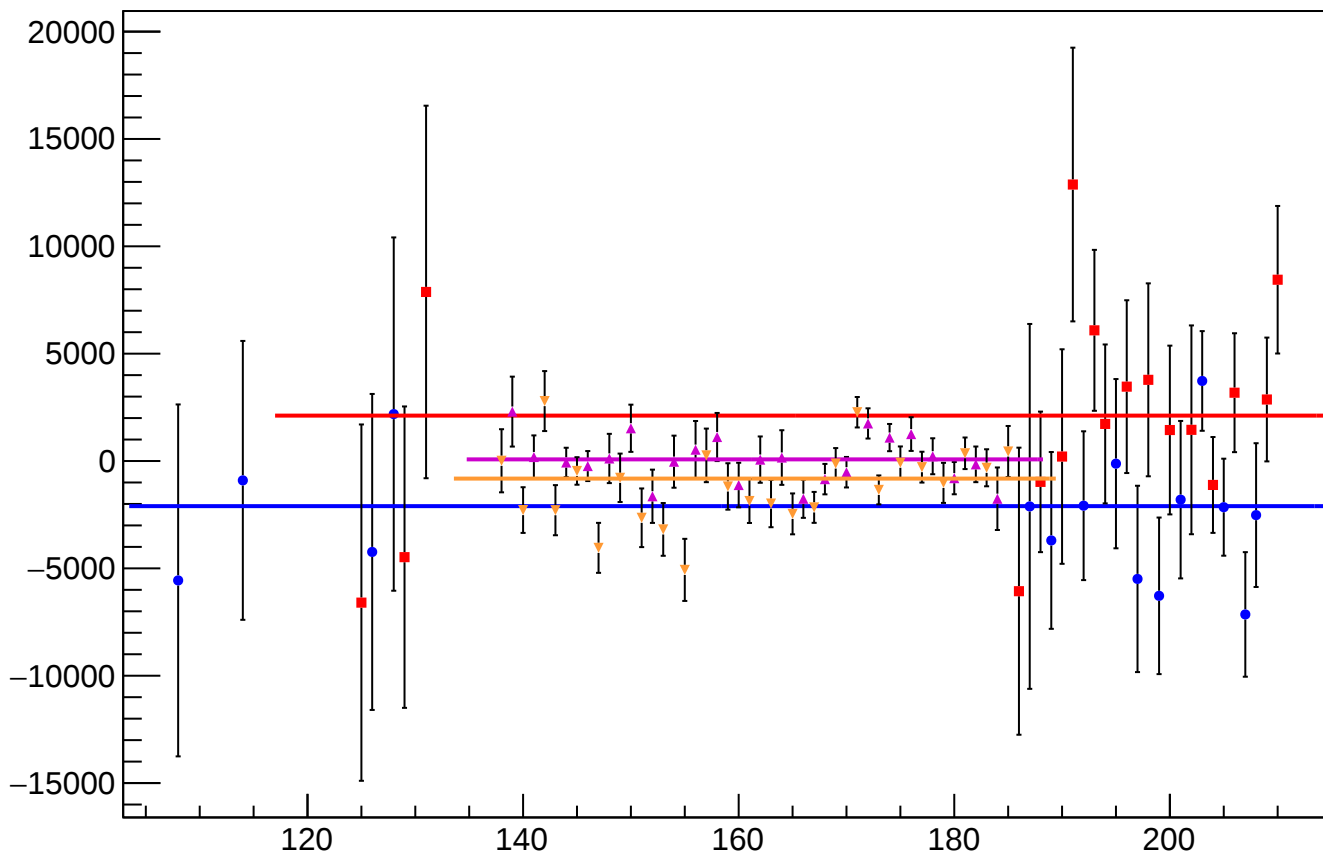
Right: 134.795 +/- 0.020 χ^2/NDF : 14706609.0/60

In: 99.450 +/- 0.014 χ^2/NDF : 9206325.0/50

Out: 99.482 +/- 0.013 χ^2/NDF : 11492863.1/57

All: 99.467 +/- 0.009 χ^2/NDF : 20699191.0/108

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2101.853 ± 960.238 $\chi^2/\text{NDF}: 12.2/14$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 2114.699 ± 941.895 $\chi^2/\text{NDF}: 14.9/16$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

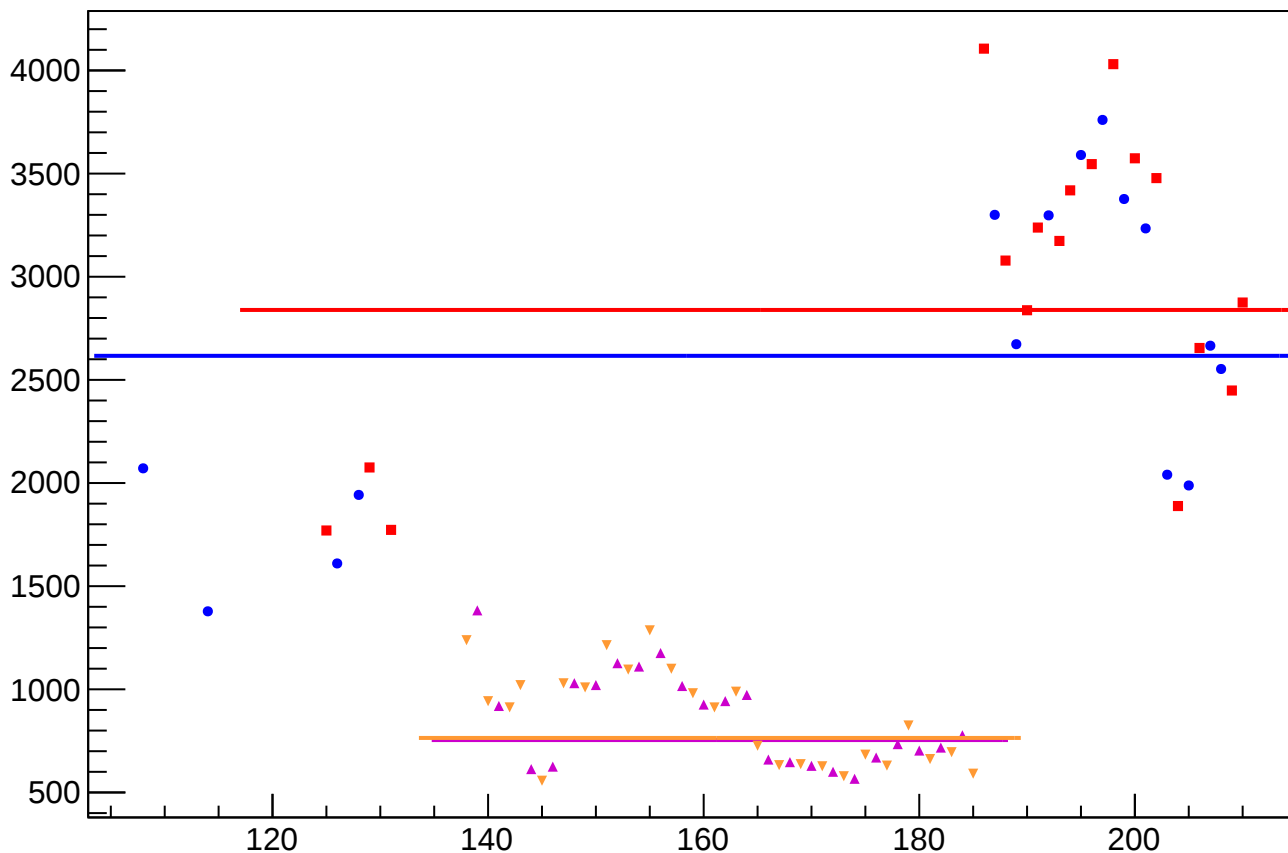
Right: 47.081 ± 672.412 $\chi^2/\text{NDF}: 37.0/31$

In: -3.094 ± 183.221 $\chi^2/\text{NDF}: 45.5/37$

Out: -710.516 ± 181.025 $\chi^2/\text{NDF}: 92.5/41$

All: -361.071 ± 128.774 $\chi^2/\text{NDF}: 145.5/79$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2616.627 $\pm$ 0.679 χ^2 /NDF: 906862.8/14

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2838.991 $\pm$ 0.666 χ^2 /NDF: 957776.8/16

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

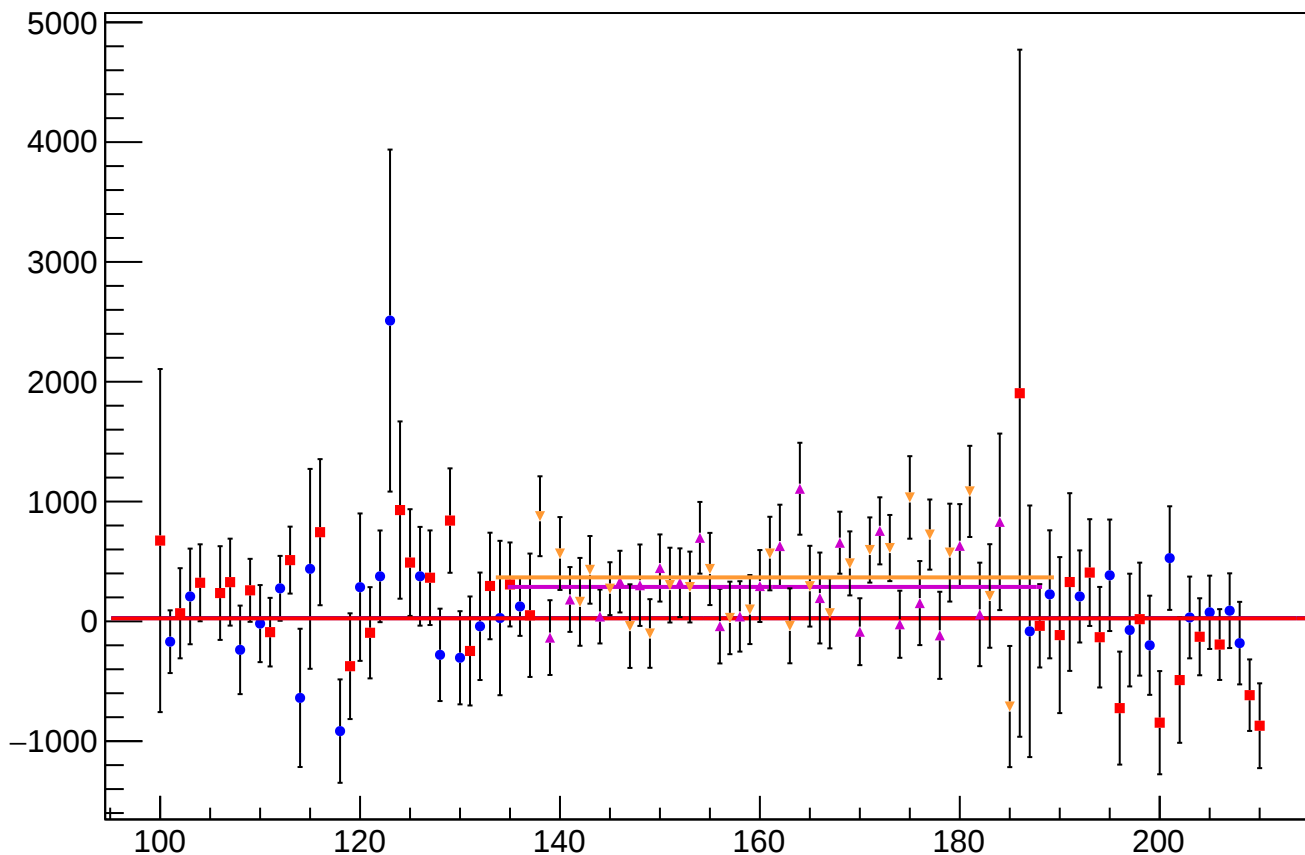
Right: 2729.953 $\pm$ 0.475 χ^2 /NDF: 1919299.1/31

In: 821.840 $\pm$ 0.130 χ^2 /NDF: 10171369.1/37

Out: 840.915 $\pm$ 0.128 χ^2 /NDF: 12619098.1/41

All: 831.493 $\pm$ 0.091 χ^2 /NDF: 22801436.7/79

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 26.904+/-73.728 χ^2/NDF : 17.9/27

Left Out: 367.028+/-61.943 χ^2/NDF : 28.2/24

Right Out: 25.057+/-69.404 χ^2/NDF : 37.5/32

Left In: 287.246+/-64.141 χ^2/NDF : 23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

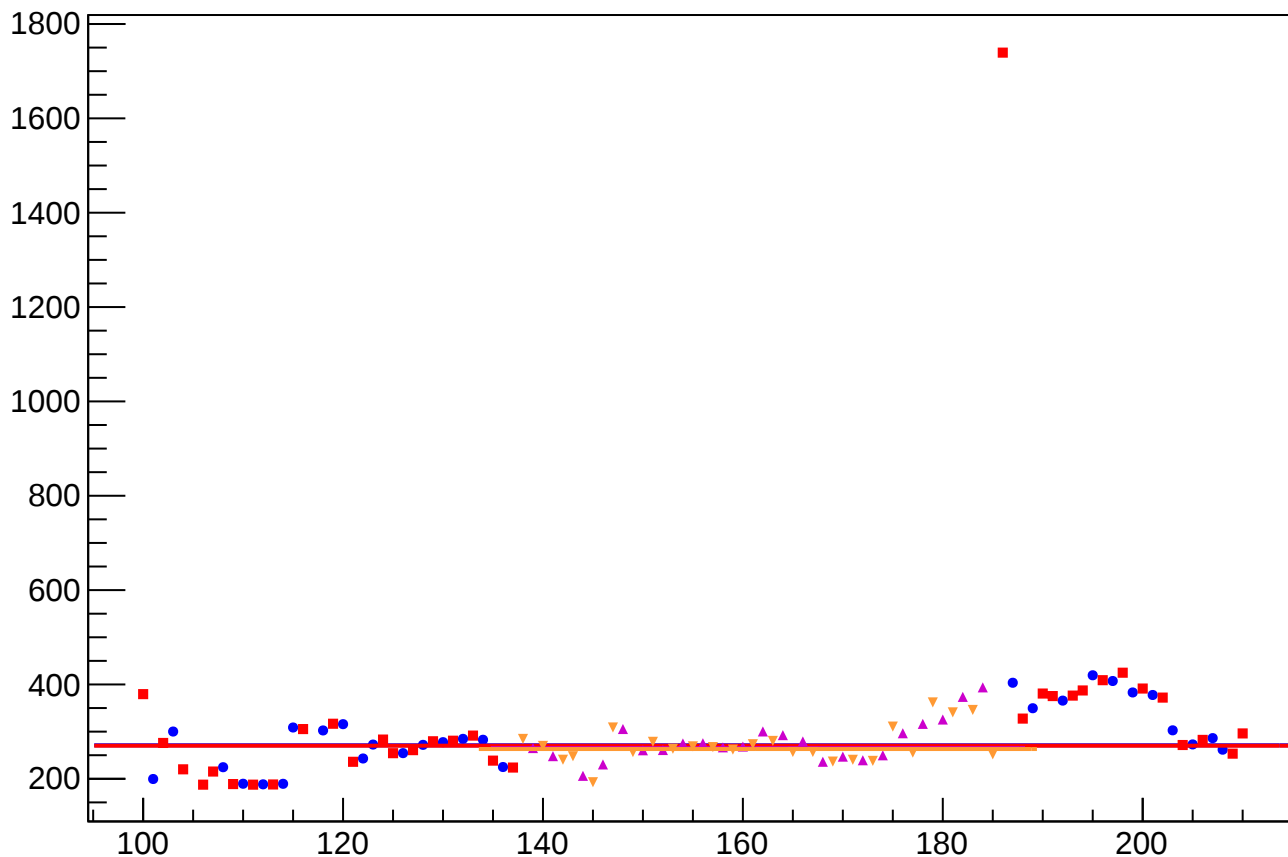
Right: 25.925+/-50.536 χ^2/NDF : 55.4/60

In: 175.093+/-48.391 χ^2/NDF : 48.8/50

Out: 215.406+/-46.214 χ^2/NDF : 79.3/57

All: 196.176+/-33.422 χ^2/NDF : 128.5/108

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.076 $\pm$ 0.052 χ^2 /NDF: 1518807.9/27

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 270.170 $\pm$ 0.049 χ^2 /NDF: 2405618.7/32

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

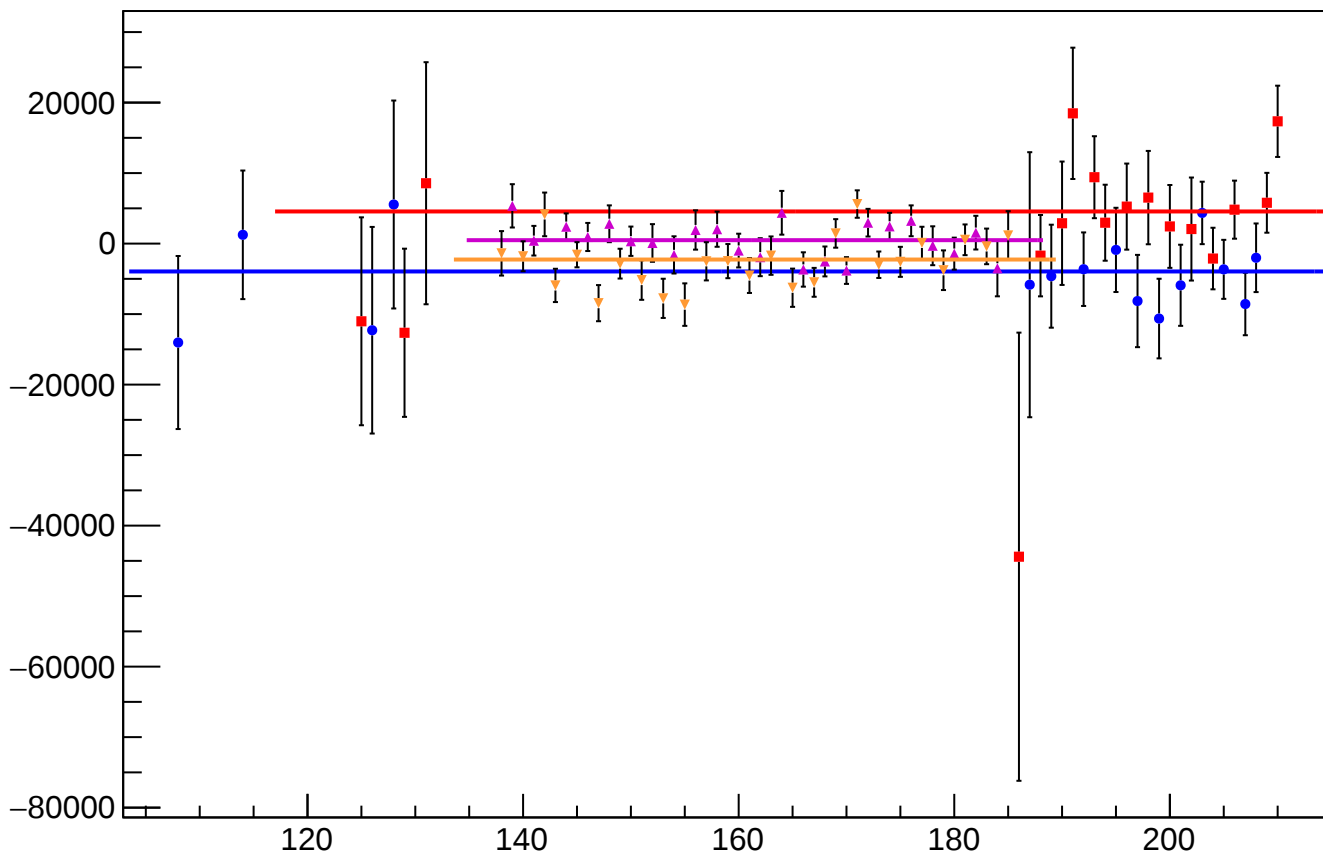
Right: 270.595 $\pm$ 0.036 χ^2 /NDF: 3924586.6/60

In: 267.573 $\pm$ 0.034 χ^2 /NDF: 2135760.3/50

Out: 266.236 $\pm$ 0.033 χ^2 /NDF: 3059387.4/57

All: 266.874 $\pm$ 0.024 χ^2 /NDF: 5195946.4/108

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3951.936 ± 1580.025 χ^2/NDF : 8.7/14

Left Out: -2260.196 ± 475.336 χ^2/NDF : 52.3/24

Right Out: 4558.310 ± 1510.888 χ^2/NDF : 19.0/16

Left In: 485.590 ± 487.465 χ^2/NDF : 24.8/22

Left: -921.890 ± 340.321 χ^2/NDF : 93.4/47

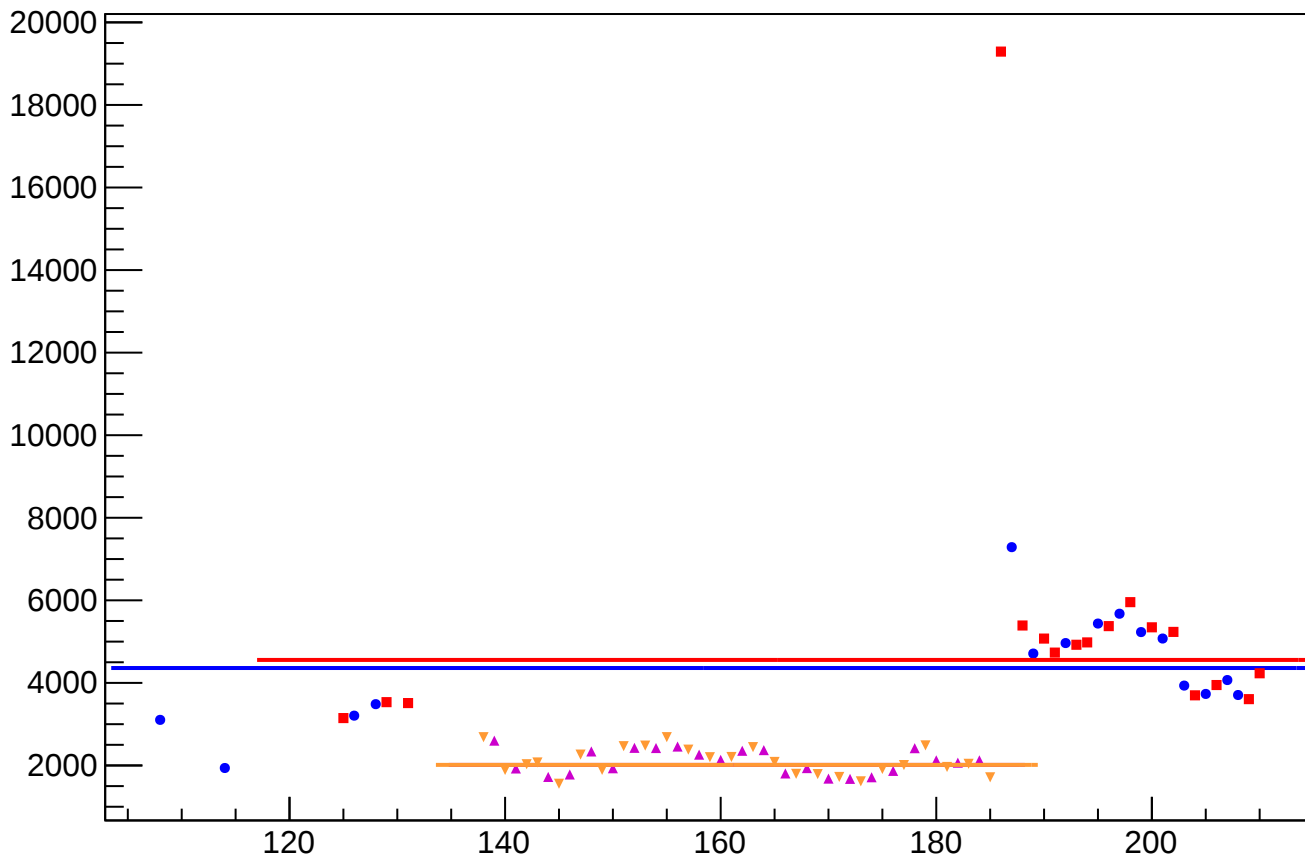
Right: 493.449 ± 1091.983 χ^2/NDF : 42.9/31

In: 99.922 ± 465.801 χ^2/NDF : 40.7/37

Out: -1646.100 ± 453.425 χ^2/NDF : 89.9/41

All: -796.591 ± 324.907 χ^2/NDF : 137.8/79

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4360.447+/-1.117 χ^2/NDF : 593878.8/14

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4556.352+/-1.068 χ^2/NDF : 947988.5/16

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

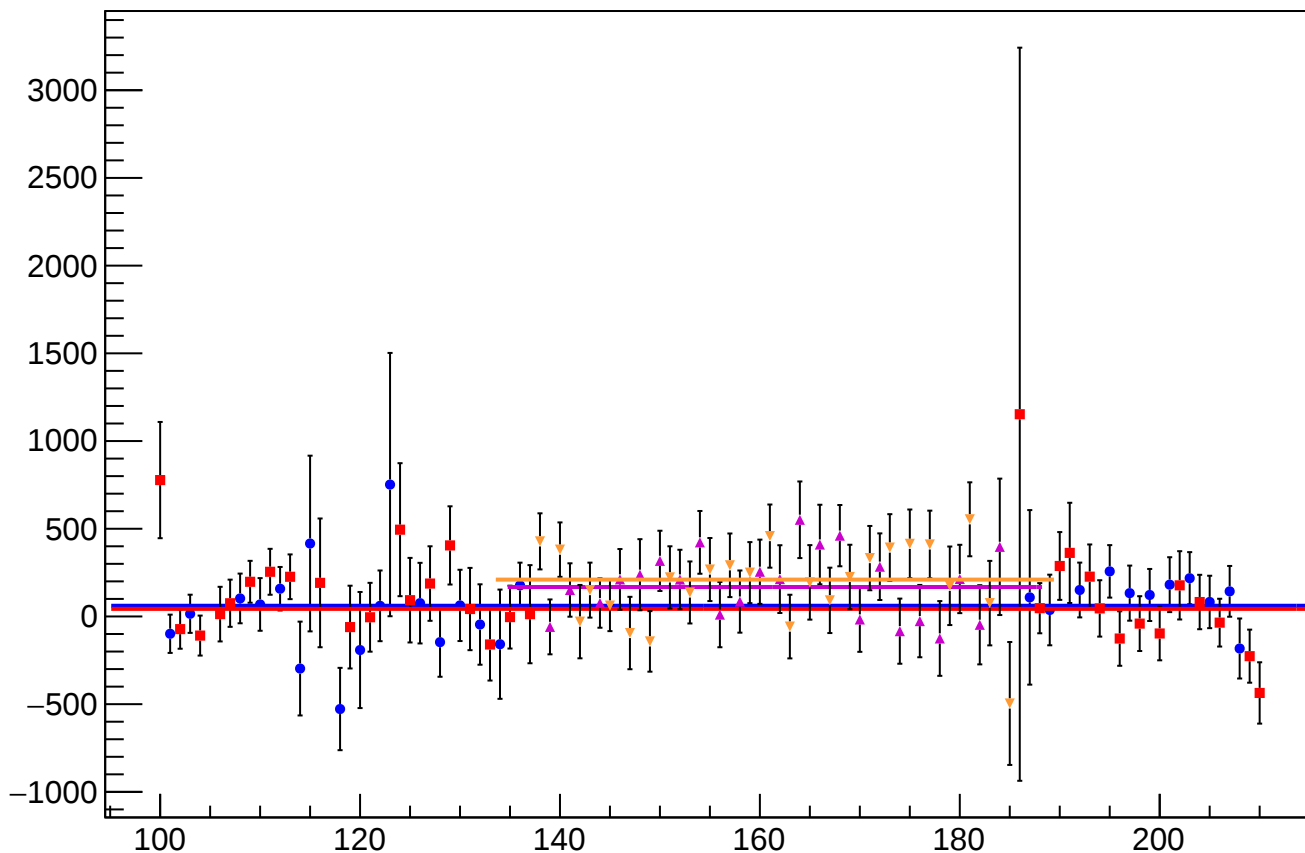
Right: 4462.779+/-0.772 χ^2/NDF : 1557927.7/31

In: 2217.242+/-0.329 χ^2/NDF : 5286060.1/37

Out: 2243.069+/-0.321 χ^2/NDF : 6936075.2/41

All: 2230.503+/-0.230 χ^2/NDF : 12225292.3/71

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 61.073+/-32.101 χ^2/NDF : 22.2/27

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 43.242+/-29.668 χ^2/NDF : 38.2/32

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

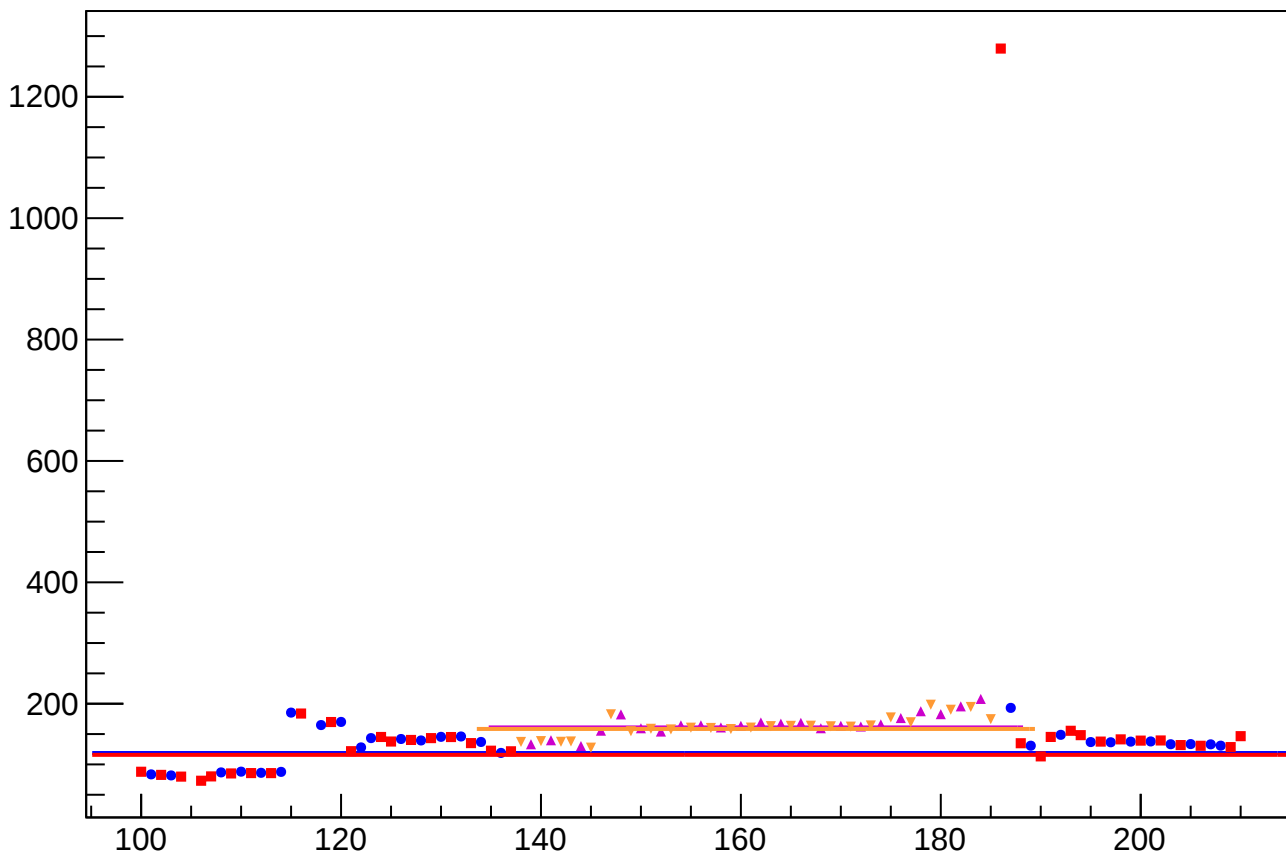
Right: 51.456+/-21.788 χ^2/NDF : 60.6/60

In: 104.561+/-24.712 χ^2/NDF :47.8/50

Out: 108.333+/-23.169 χ^2/NDF :78.1/57

All: 106.568+/-16.902 χ^2/NDF : 125.9/108

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 118.750 $\pm$ 0.023 χ^2 /NDF: 1376935.5/27

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 115.760 $\pm$ 0.021 χ^2 /NDF: 2483082.2/32

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

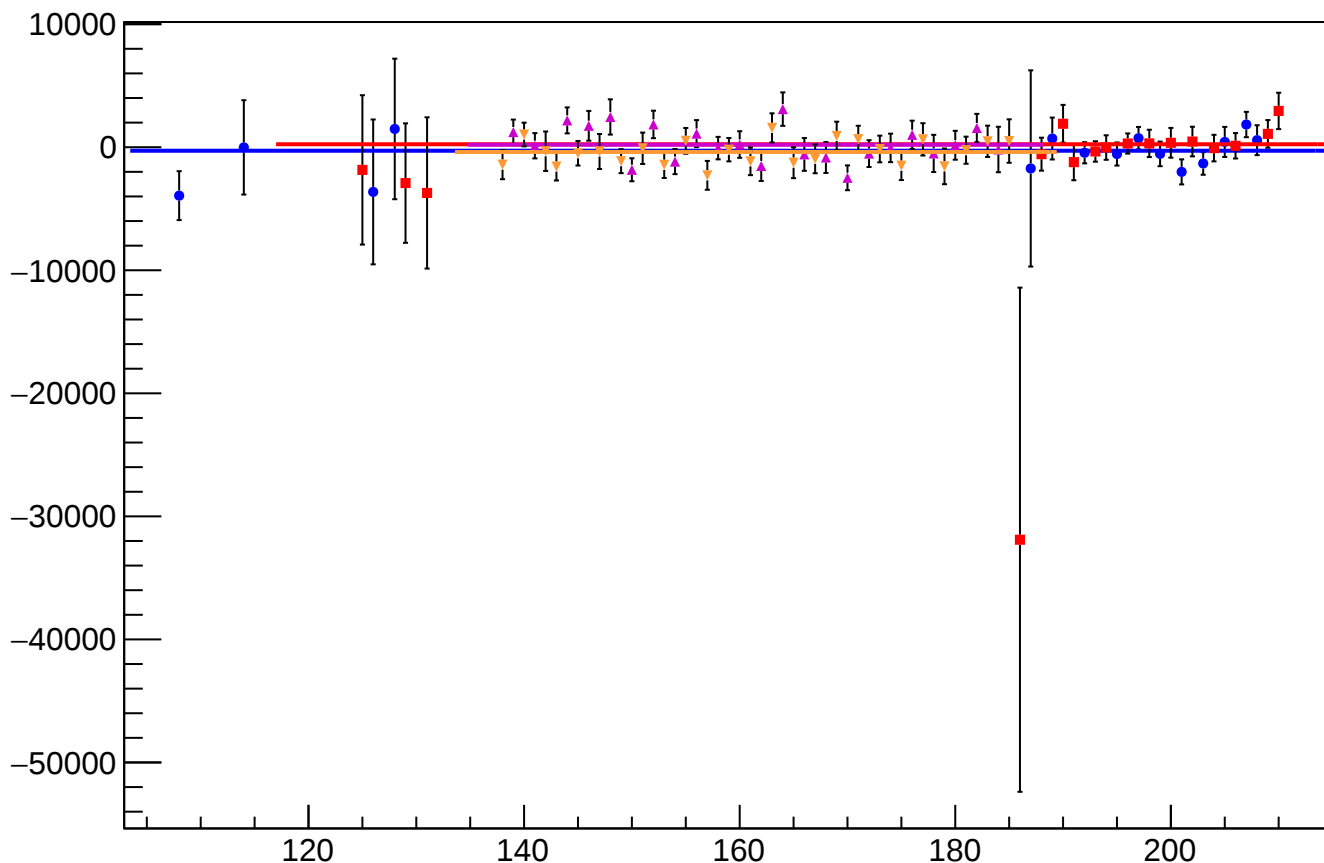
Right: 117.138 $\pm$ 0.015 χ^2 /NDF: 3869376.5/60

In: 135.941 $\pm$ 0.017 χ^2 /NDF: 3164453.2/50

Out: 132.411 $\pm$ 0.016 χ^2 /NDF: 4532190.5/57

All: 134.062 $\pm$ 0.012 χ^2 /NDF: 7718357.2/108

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -284.569+/-318.503 χ^2/NDF : 14.8/14

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 241.664+/-305.340 χ^2/NDF : 10.6/16

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

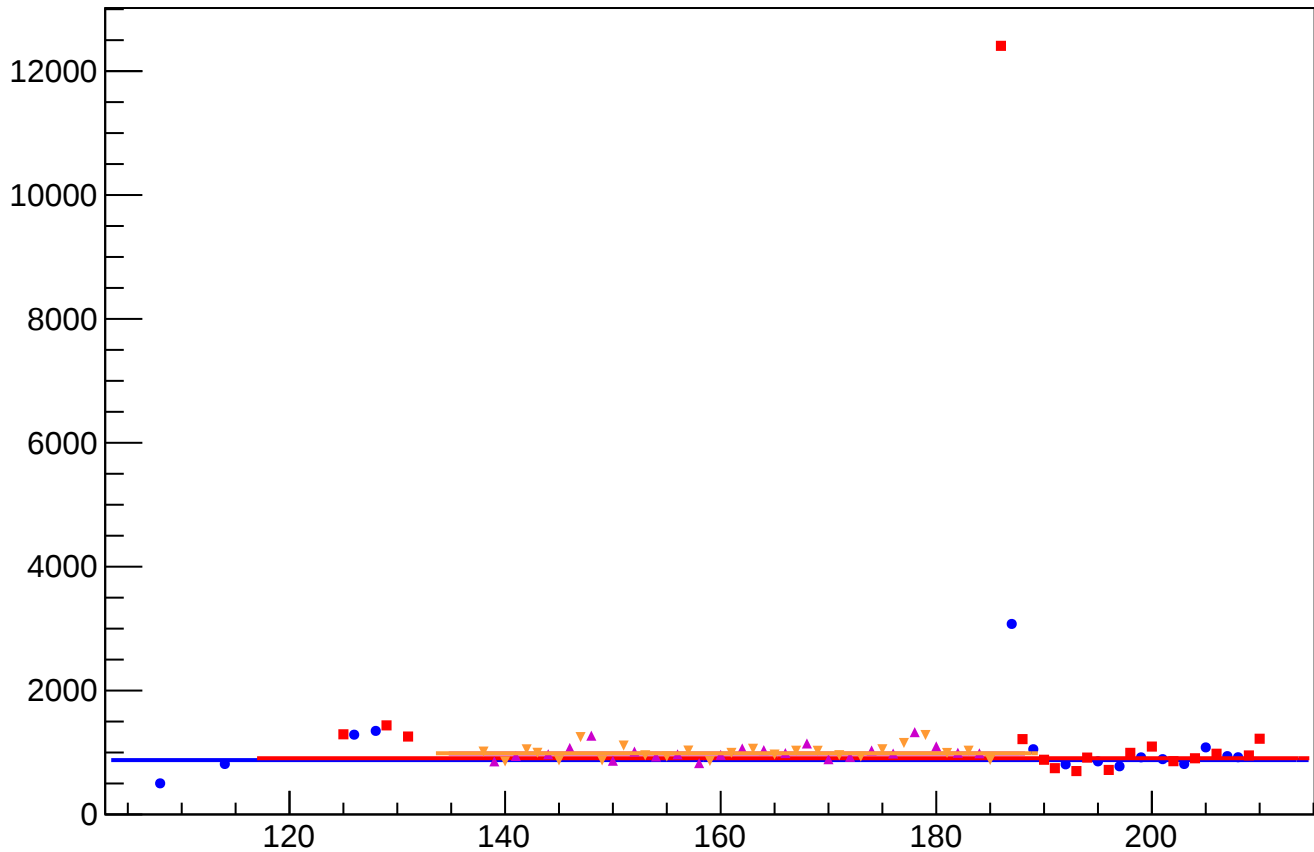
Right: -10.353+/-220.415 χ^2/NDF : 26.8/31

In: 28.318+/-190.374 χ^2/NDF : 51.8/37

Out: -155.856+/-184.642 χ^2/NDF : 31.3/41

All: -66.583+/-132.542 χ^2/NDF : 83.6/79

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 877.456+/-0.225 χ^2/NDF : 386857.0/14

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 907.639+/-0.216 χ^2/NDF : 1198399.7/16

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

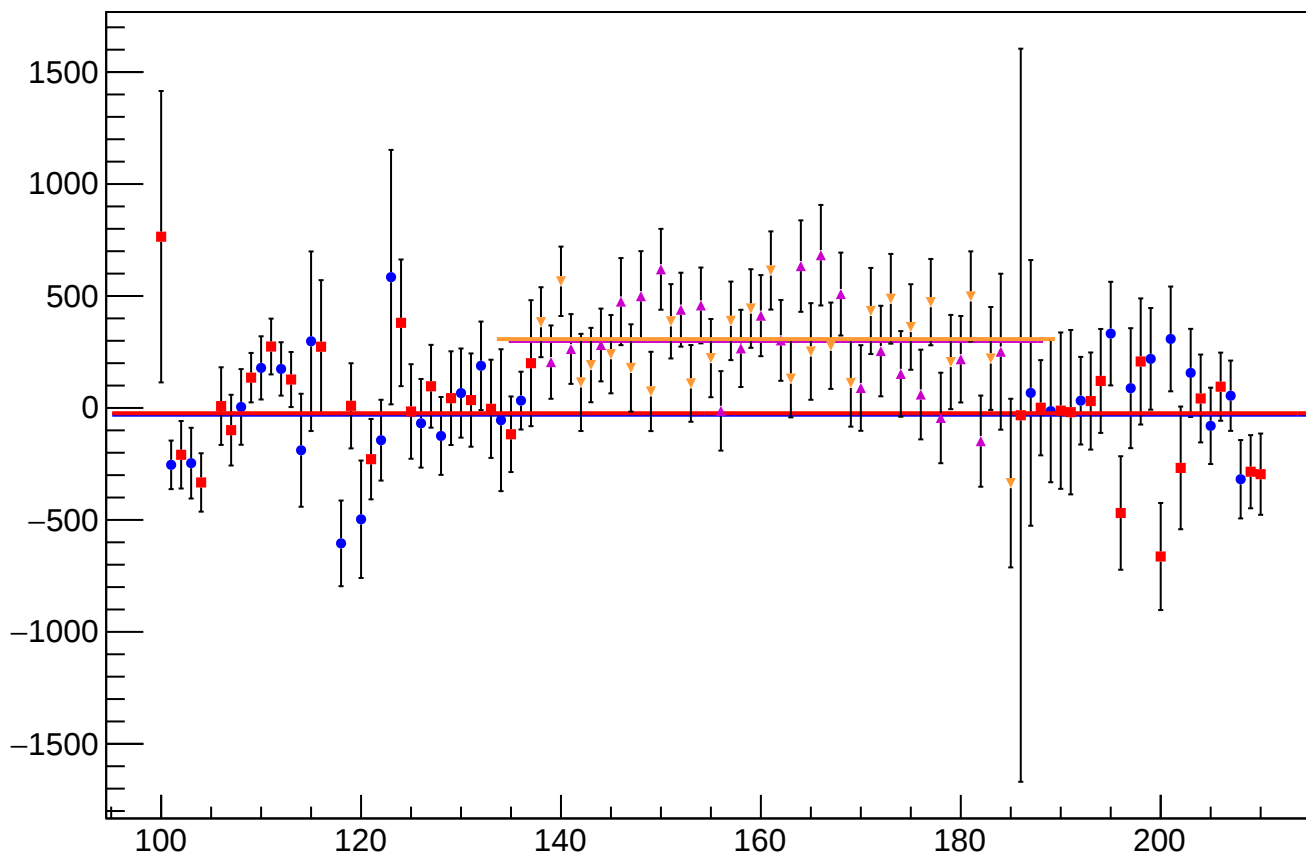
Right: 893.185+/-0.156 χ^2/NDF : 1594616.0/31

In: 945.867+/-0.135 χ^2/NDF : 946678.1/37

Out: 958.531+/-0.131 χ^2/NDF : 1662945.5/41

All: 952.393+/-0.094 χ^2/NDF : 2614183.6/79

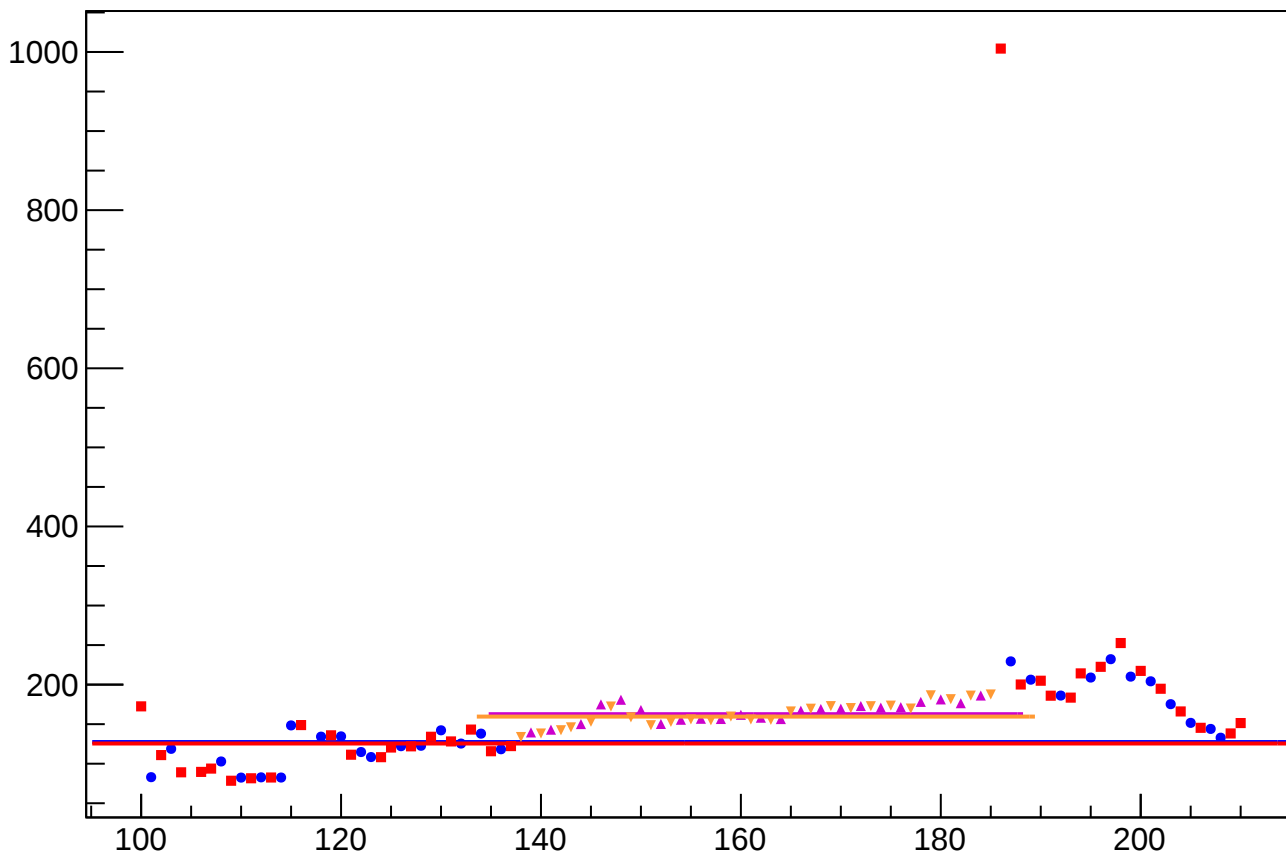
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -30.159 ± 35.342 $\chi^2/\text{NDF}: 38.3/27$
 Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: -23.499 ± 33.079 $\chi^2/\text{NDF}: 41.8/32$
 Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$
 Right: -26.609 ± 24.151 $\chi^2/\text{NDF}: 80.1/60$
 In: 118.310 ± 26.191 $\chi^2/\text{NDF}: 105.9/50$
 Out: 122.314 ± 24.742 $\chi^2/\text{NDF}: 106.6/57$
 All: 120.426 ± 17.986 $\chi^2/\text{NDF}: 212.6/108$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 127.389+/-0.025 χ^2/NDF : 2560967.4/27

Left Out: 159.568+/-0.026 χ^2/NDF :287744.2/24

Right Out: 125.535+/-0.023 χ^2/NDF : 3982944.4/32

Left In: 162.606+/-0.028 χ^2/NDF :199542.3/22

Left: 161.019 ± 0.019 $\chi^2/\text{NDF}: 493626.9/47$

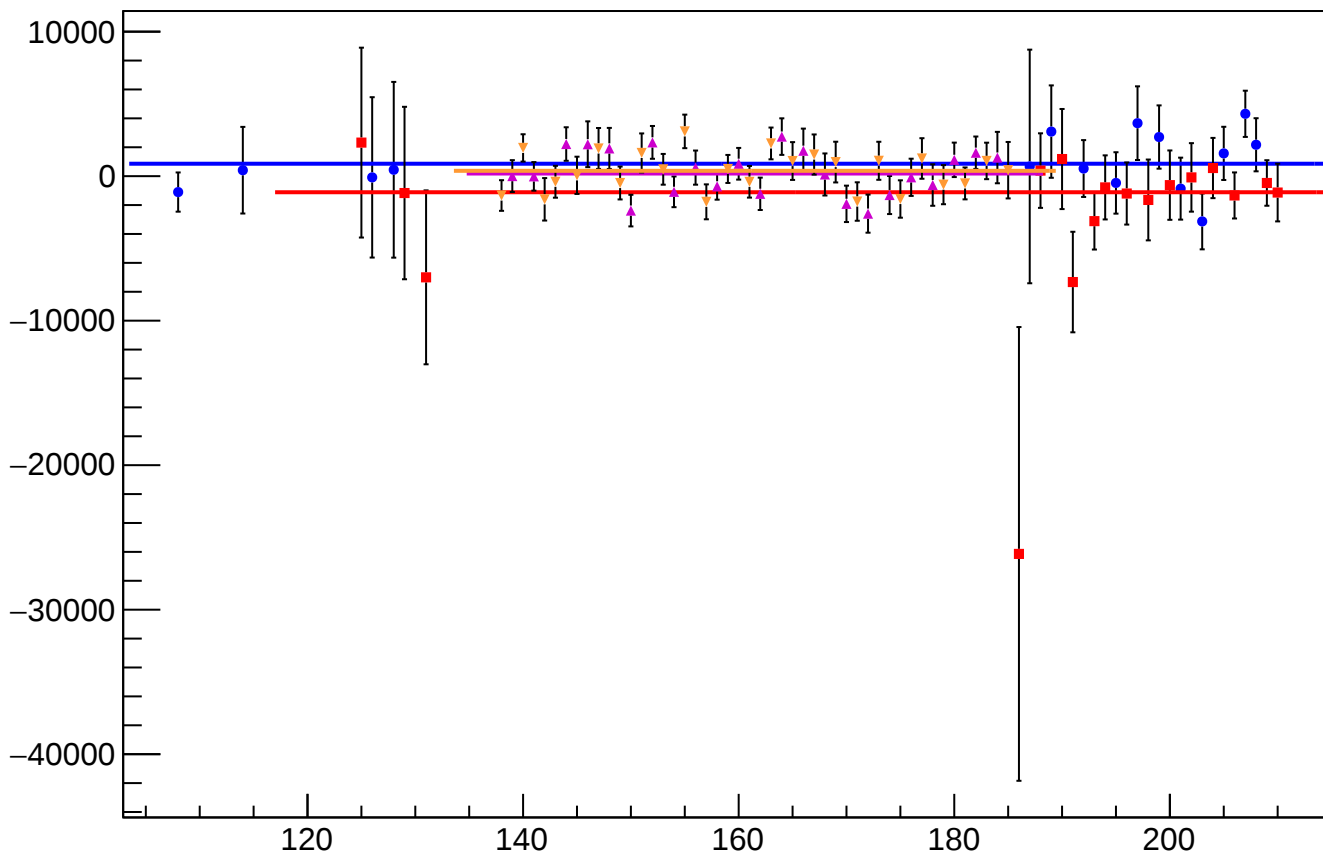
Right: 126.401+/-0.017 χ^2/NDF : 6546845.6/60

In: 143.265+/-0.019 χ^2/NDF :3655778.2/50

Out: 140.528+/-0.017 χ^2/NDF :5203330.8/57

All: 141.819 ± 0.013 $\chi^2/\text{NDF}: 8870647.2/108$

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 860.650+/-564.569 χ^2/NDF : 15.2/14

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -1112.821+/-593.881 χ^2/NDF : 9.9/16

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

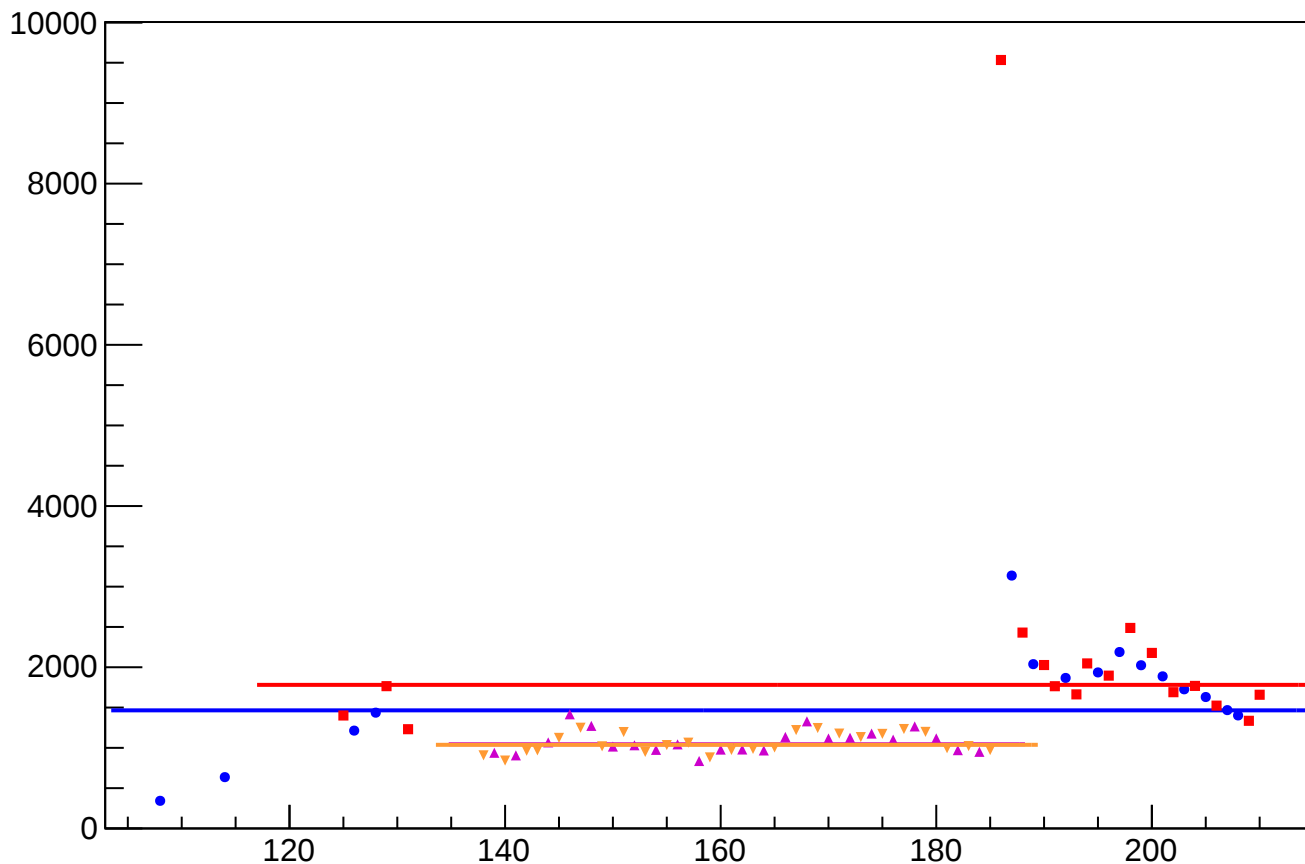
Right: -76.183+/-409.181 χ^2/NDF : 30.9/31

In: 295.863+/-230.313 χ^2/NDF :52.9/37

Out: 156.565+/-225.314 χ^2/NDF :45.7/41

All: 224.686+/-161.059 χ^2/NDF : 98.8/79

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1465.245+/-0.399 χ^2/NDF : 2281426.7/14

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1781.430+/-0.420 χ^2/NDF : 1094412.9/16

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

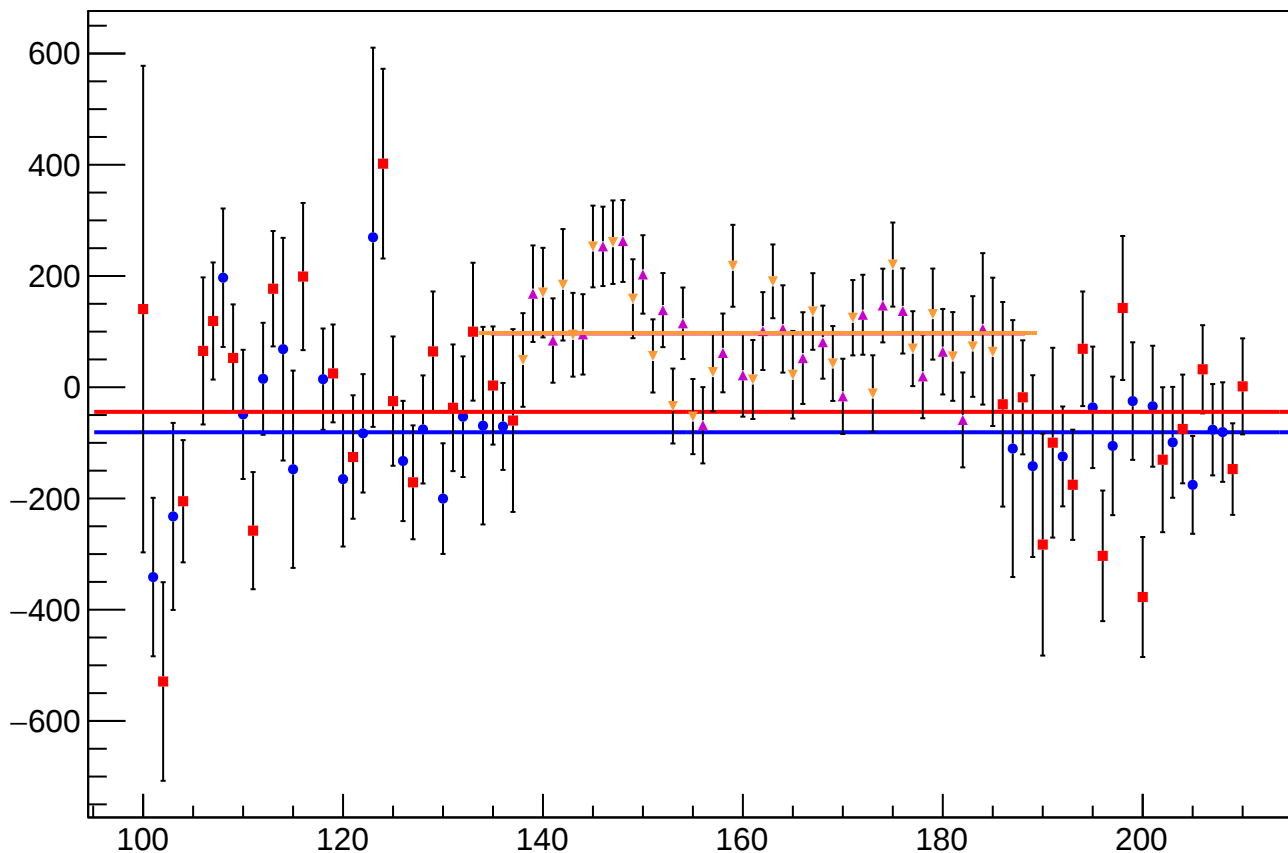
Right: 1615.342+/-0.289 χ^2/NDF : 3673628.8/31

In: 1114.725+/-0.163 χ^2/NDF : 3749600.2/37

Out: 1144.742+/-0.159 χ^2/NDF : 4274610.9/41

All: 1130.063+/-0.114 χ^2/NDF : 8041570.2/79

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -80.943 ± 21.118 $\chi^2/\text{NDF}: 17.5/27$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -44.275 ± 19.666 $\chi^2/\text{NDF}: 62.3/32$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

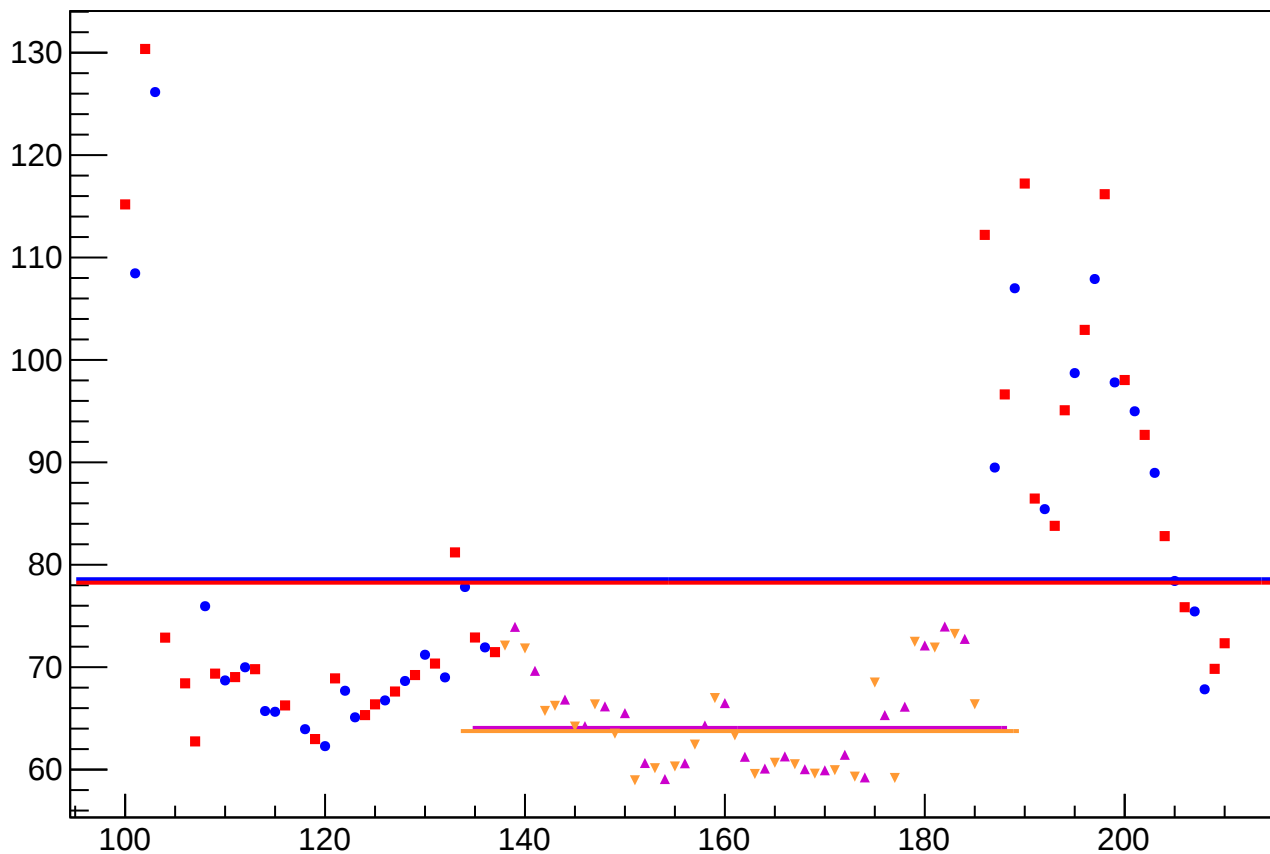
Right: -61.305 ± 14.392 $\chi^2/\text{NDF}: 81.4/60$

In: 35.191 ± 12.427 $\chi^2/\text{NDF}: 92.9/50$

Out: 45.850 ± 11.866 $\chi^2/\text{NDF}: 131.4/57$

All: 40.766 ± 8.582 $\chi^2/\text{NDF}: 224.7/108$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 78.588 $\pm$ 0.015 χ^2 /NDF: 915098.7/27

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.251 $\pm$ 0.014 χ^2 /NDF: 1128630.8/32

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

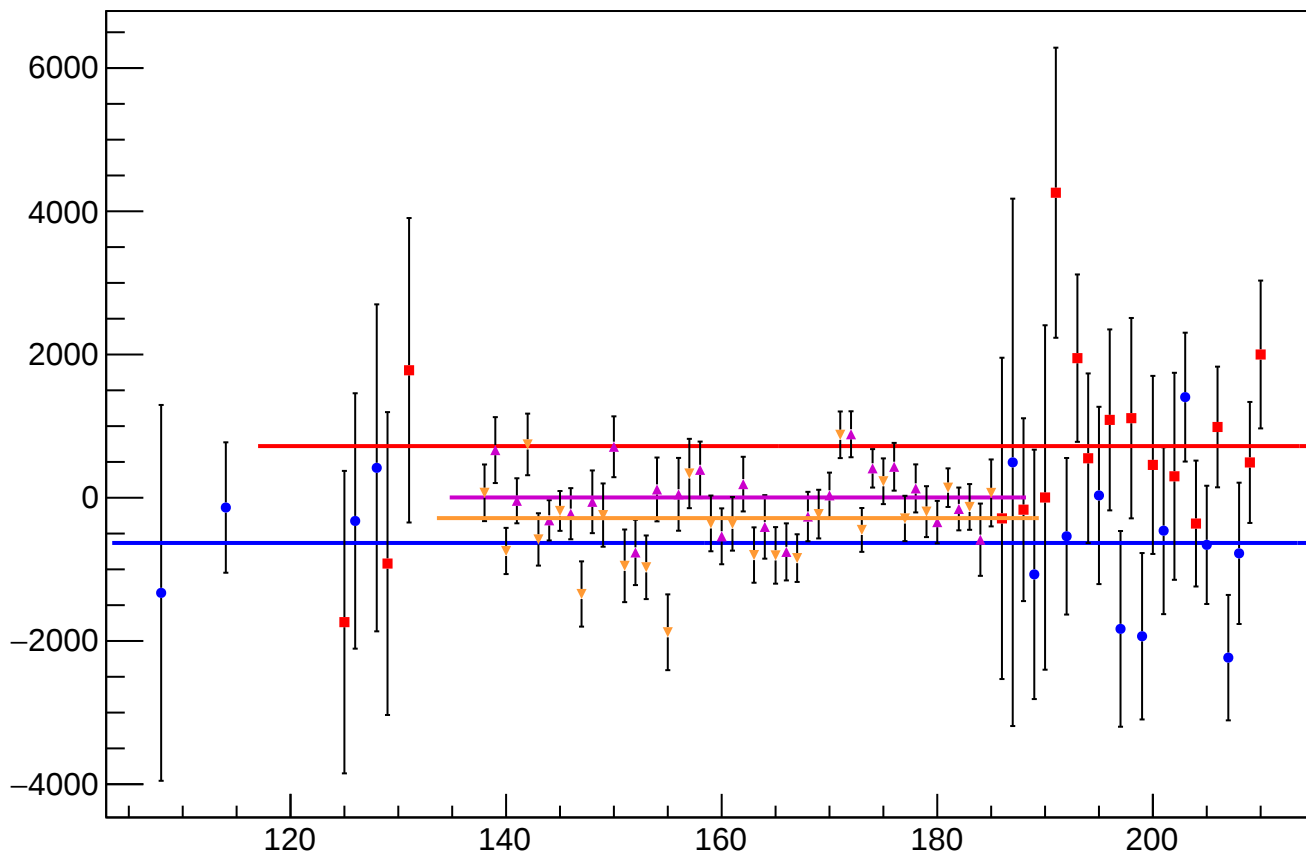
Right: 78.407 $\pm$ 0.010 χ^2 /NDF: 2044002.7/60

In: 69.096 $\pm$ 0.009 χ^2 /NDF: 1697804.6/50

Out: 69.036 $\pm$ 0.008 χ^2 /NDF: 2011874.7/57

All: 69.065 $\pm$ 0.006 χ^2 /NDF: 3709703.5/108

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -631.288 ± 304.327 χ^2/NDF : 11.6/14

Left Out: -284.304 ± 72.732 χ^2/NDF : 55.1/24

Right Out: 721.270 ± 306.440 χ^2/NDF : 10.7/16

Left In: 4.037 ± 75.084 χ^2/NDF : 32.4/22

Left: -144.720 ± 52.241 χ^2/NDF : 95.0/47

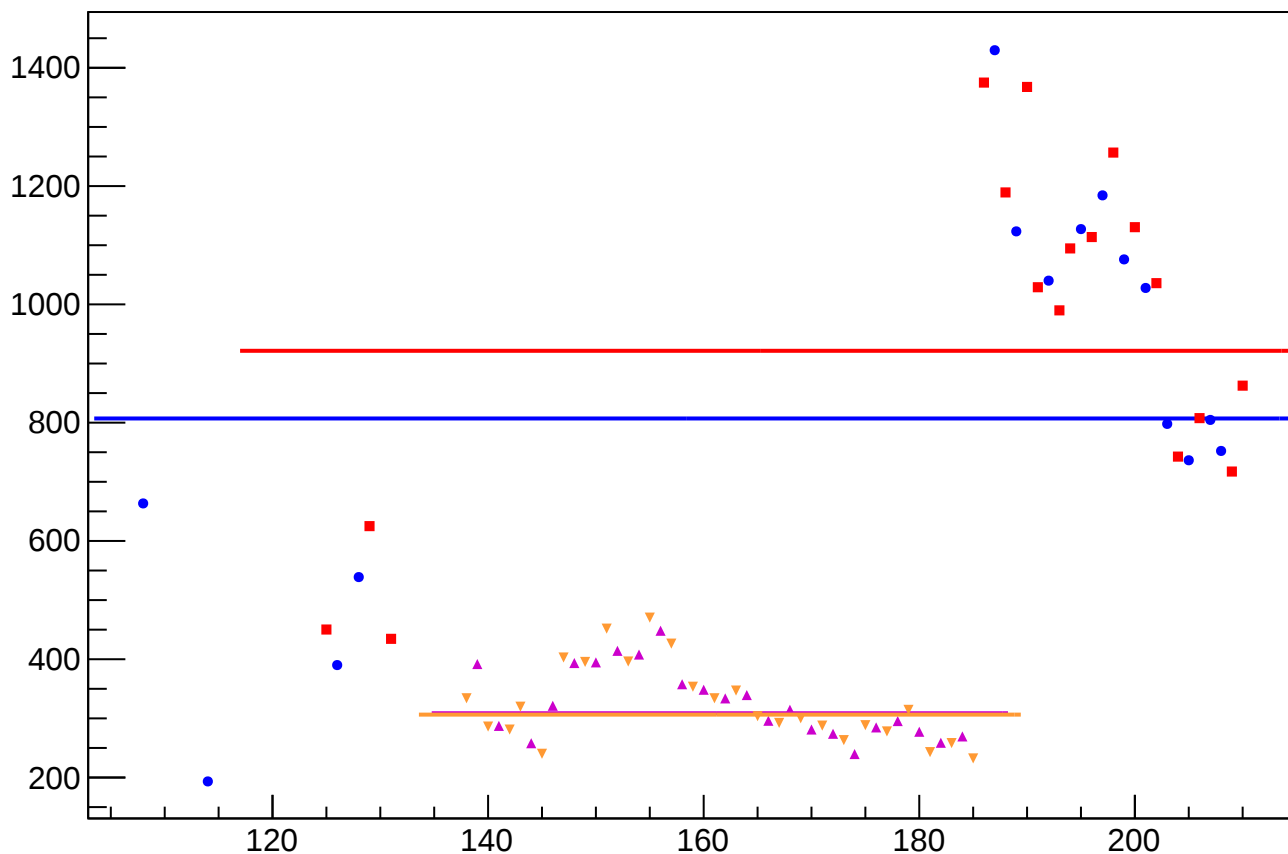
Right: 40.312 ± 215.935 χ^2/NDF : 32.1/31

In: -32.418 ± 72.898 χ^2/NDF : 48.1/37

Out: -230.677 ± 70.766 χ^2/NDF : 75.9/41

All: -134.489 ± 50.776 χ^2/NDF : 127.8/79

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 807.077+/-0.215 χ^2/NDF : 1751774.9/14

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 921.501+/-0.217 χ^2/NDF : 1010507.6/16

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

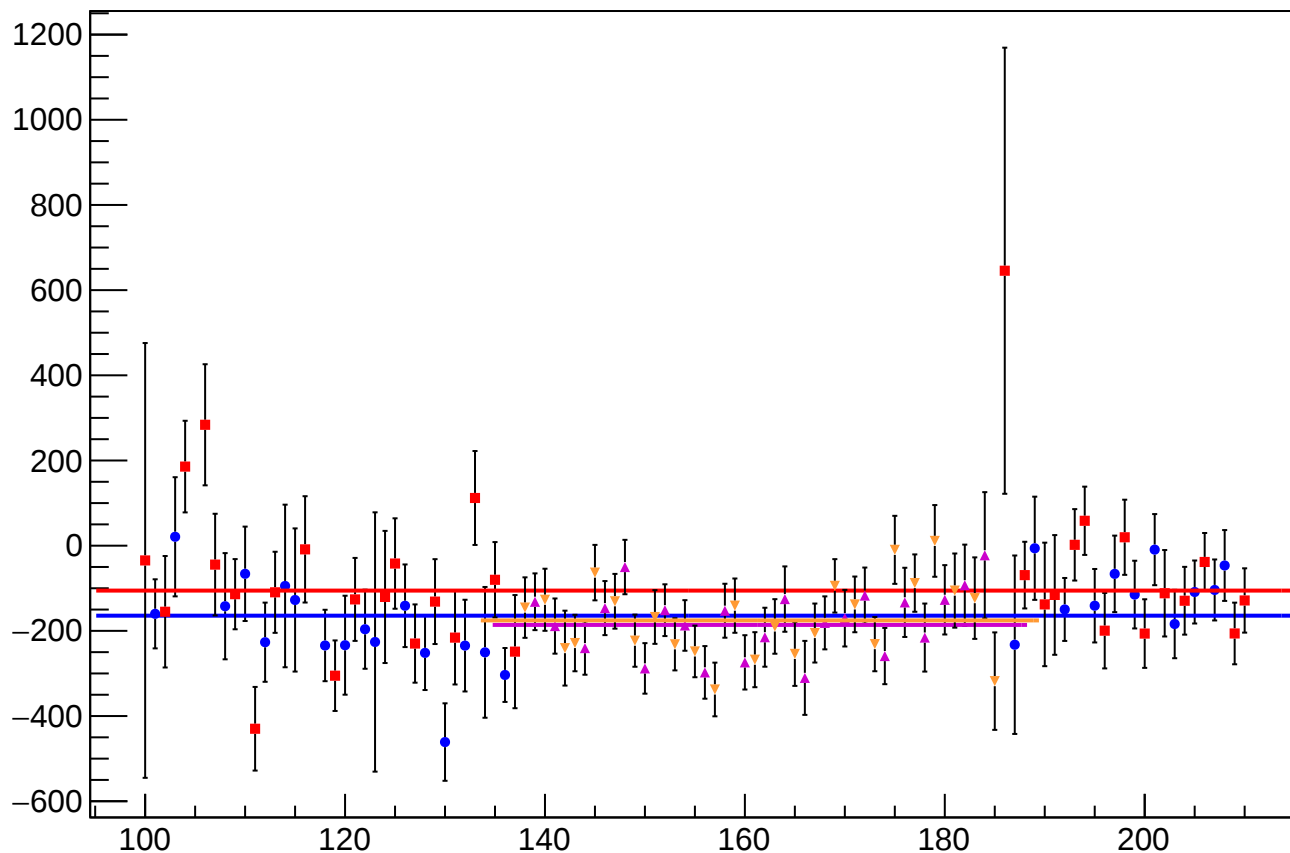
Right: 863.893+/-0.153 χ^2/NDF : 2902674.5/31

In: 337.321+/-0.052 χ^2/NDF : 7810112.5/37

Out: 339.168+/-0.050 χ^2/NDF : 9855464.9/41

All: 338.272+/-0.036 χ^2/NDF : 17666237.8/79

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -164.349 ± 17.904 $\chi^2/\text{NDF}: 32.0/27$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -105.445 ± 17.015 $\chi^2/\text{NDF}: 57.0/32$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

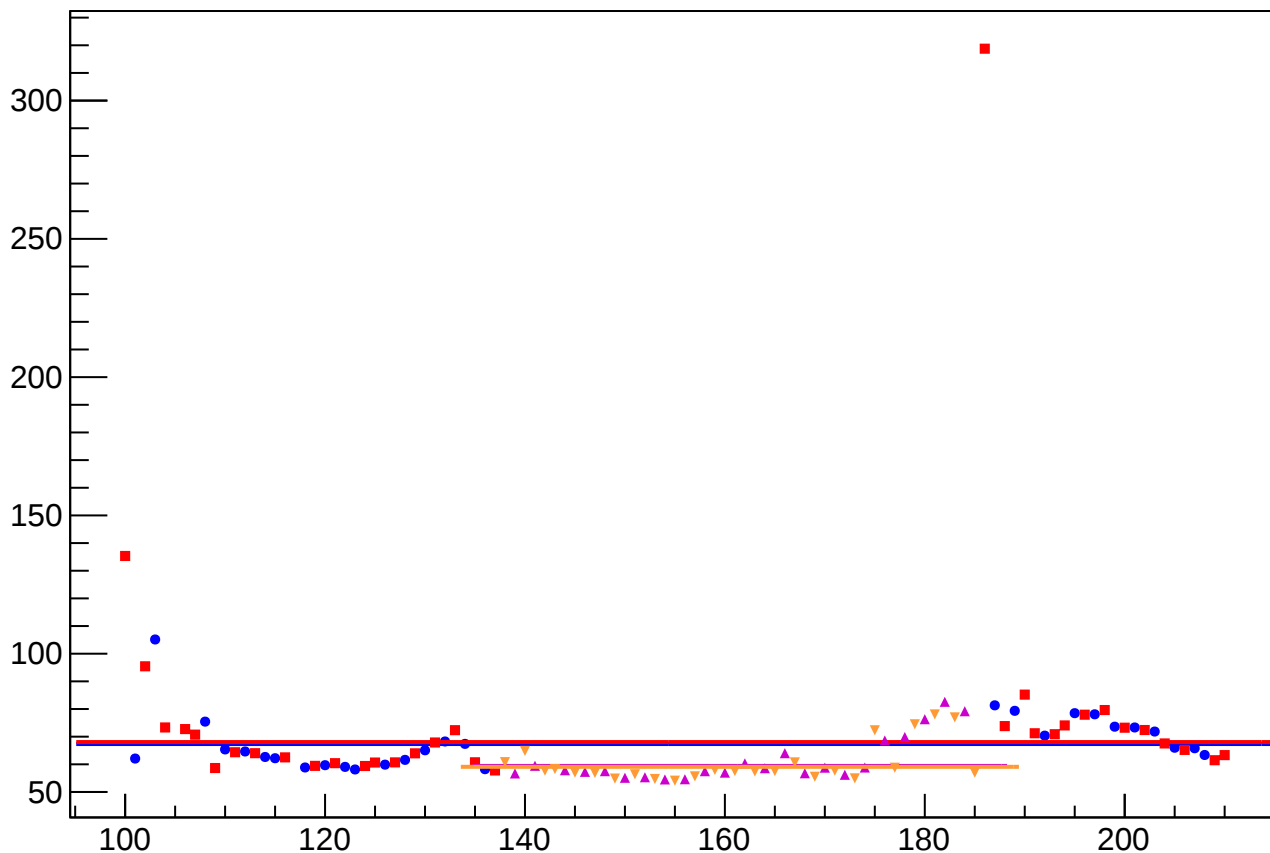
Right: -133.397 ± 12.334 $\chi^2/\text{NDF}: 94.7/60$

In: -177.586 ± 11.181 $\chi^2/\text{NDF}: 56.4/50$

Out: -147.574 ± 10.739 $\chi^2/\text{NDF}: 101.8/57$

All: -161.975 ± 7.745 $\chi^2/\text{NDF}: 162.0/108$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.337 $\pm$ 0.013 χ^2 /NDF: 407347.2/27

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.052 $\pm$ 0.012 χ^2 /NDF: 872374.2/32

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

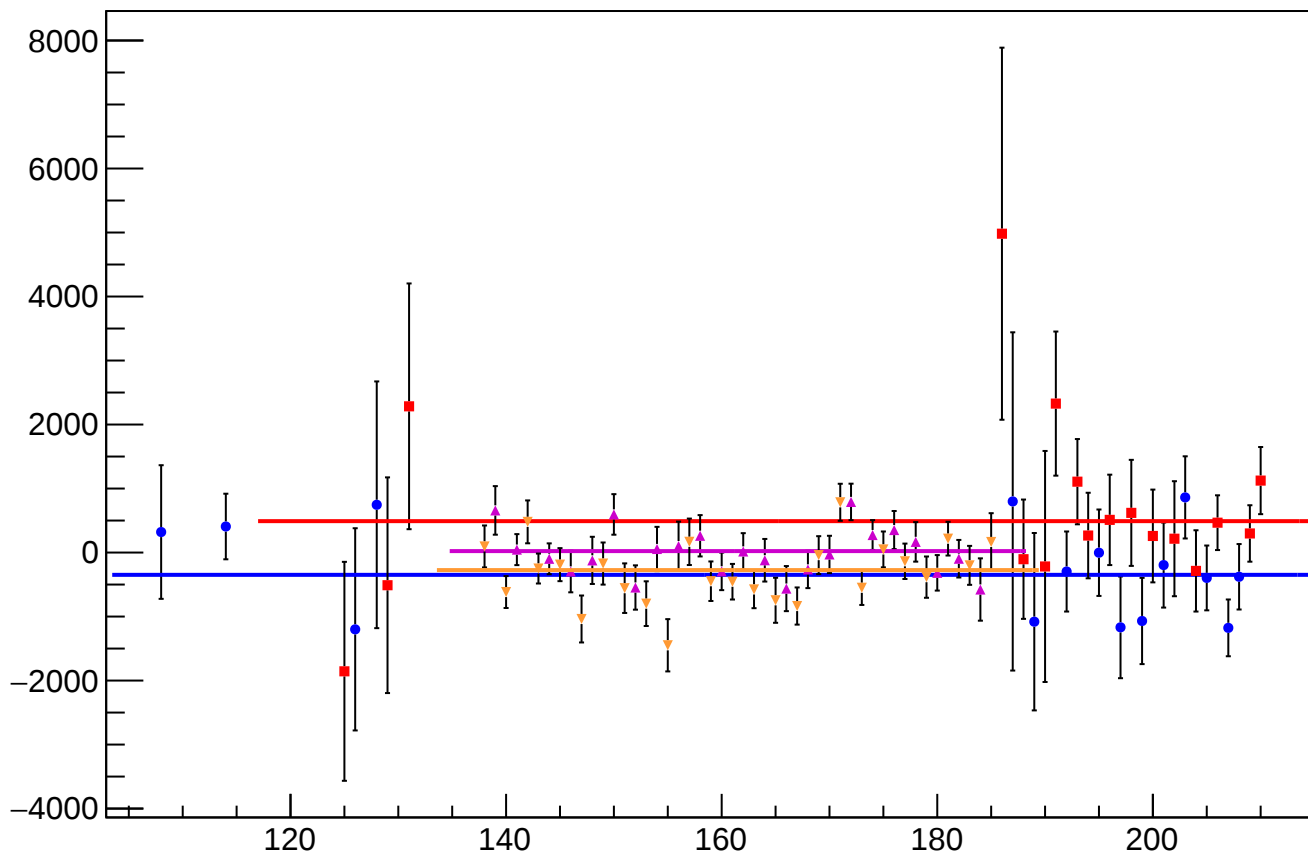
Right: 67.713 $\pm$ 0.009 χ^2 /NDF: 1281397.9/60

In: 62.502 $\pm$ 0.008 χ^2 /NDF: 1019541.2/50

Out: 62.666 $\pm$ 0.008 χ^2 /NDF: 1575309.0/57

All: 62.587 $\pm$ 0.005 χ^2 /NDF: 2595075.4/108

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -348.284 ± 176.493 $\chi^2/\text{NDF}: 13.3/14$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 490.622 ± 179.163 $\chi^2/\text{NDF}: 13.1/16$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

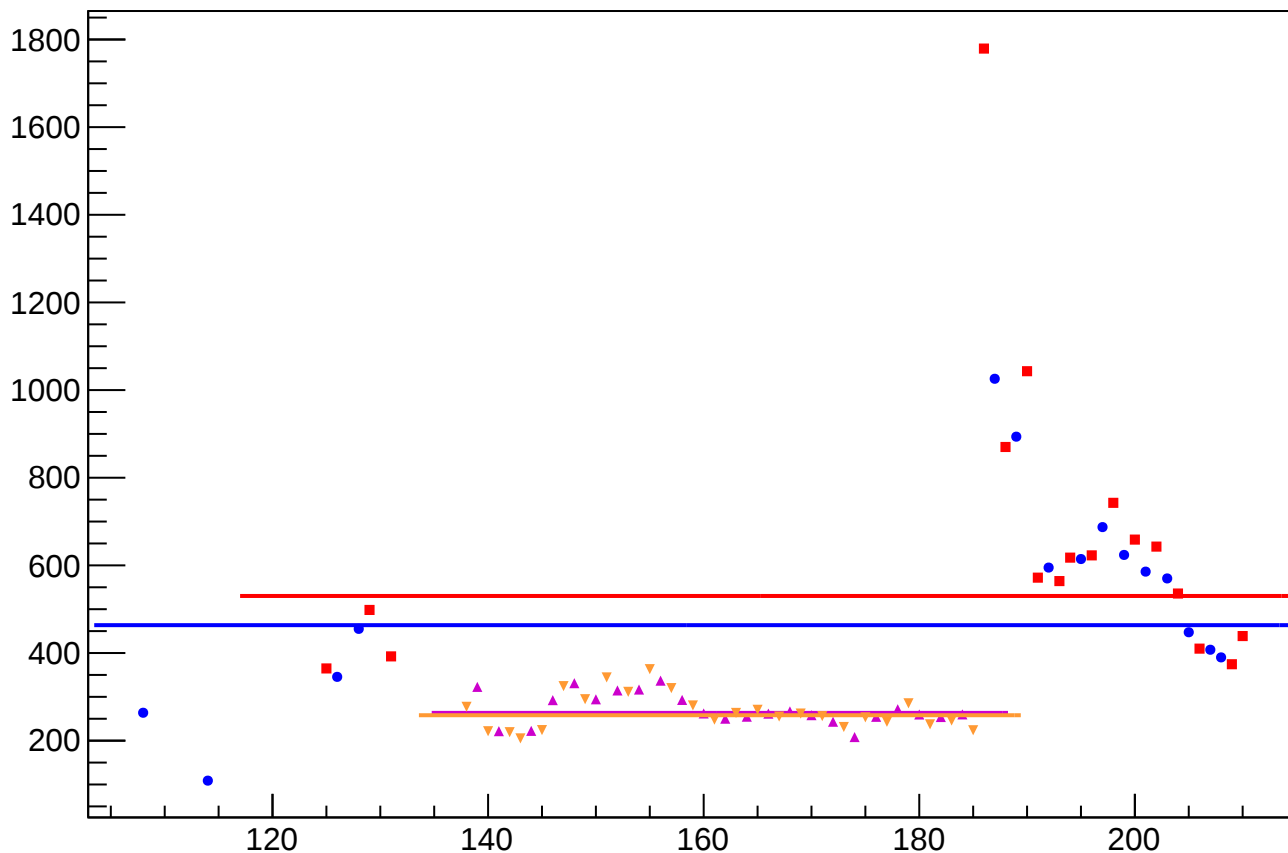
Right: 64.870 ± 125.733 $\chi^2/\text{NDF}: 37.4/31$

In: -20.050 ± 59.870 $\chi^2/\text{NDF}: 46.1/37$

Out: -195.121 ± 57.574 $\chi^2/\text{NDF}: 83.3/41$

All: -111.006 ± 41.499 $\chi^2/\text{NDF}: 133.8/79$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 463.576+/-0.125 χ^2/NDF : 1984935.2/14

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 530.187+/-0.127 χ^2/NDF : 1597894.9/16

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

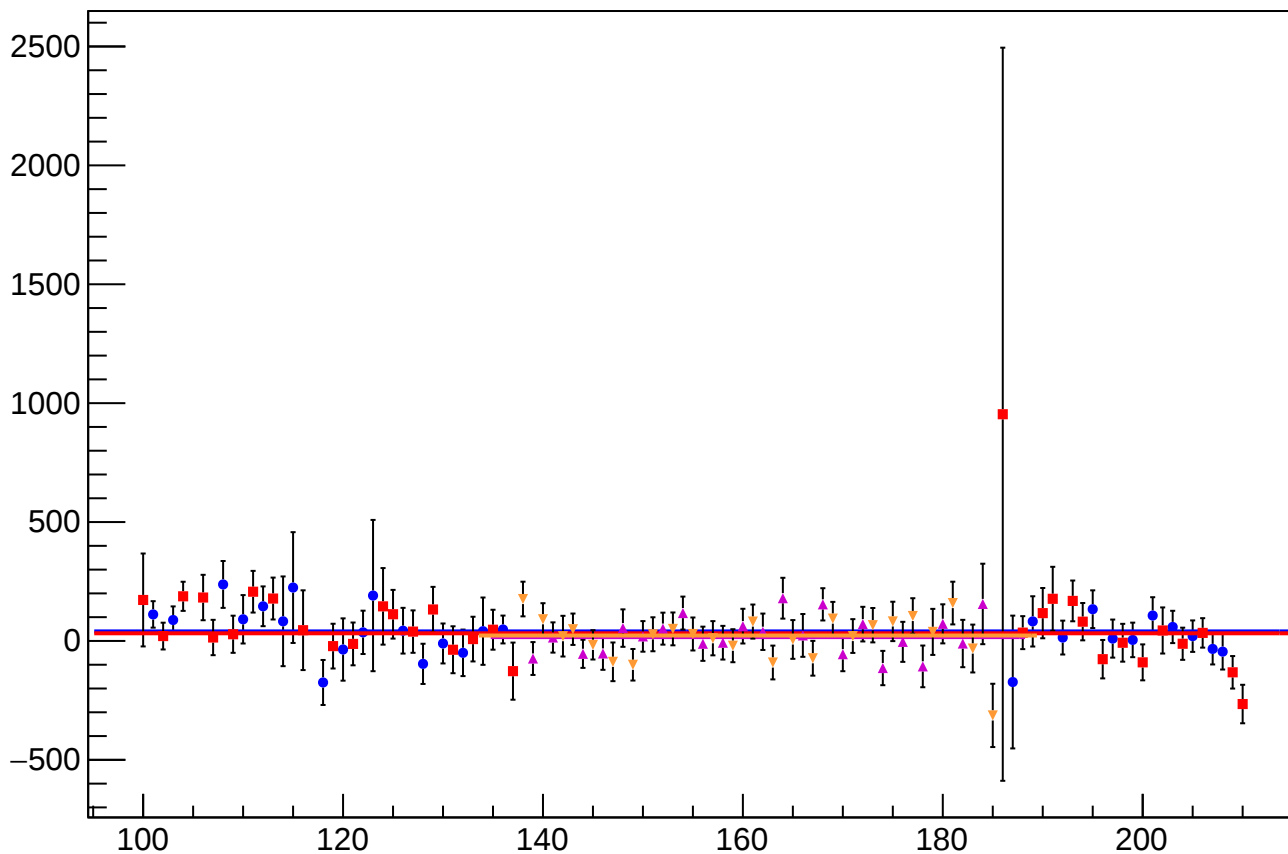
Right: 496.381+/-0.089 χ^2/NDF : 3723135.3/31

In: 286.431+/-0.042 χ^2/NDF : 4847327.8/37

Out: 286.144+/-0.041 χ^2/NDF : 6460836.2/41

All: 286.282+/-0.029 χ^2/NDF : 11308187.9/79

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.119 $\pm$ 15.846 χ^2 /NDF: 24.6/27

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 32.199 $\pm$ 14.937 χ^2 /NDF: 50.9/32

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

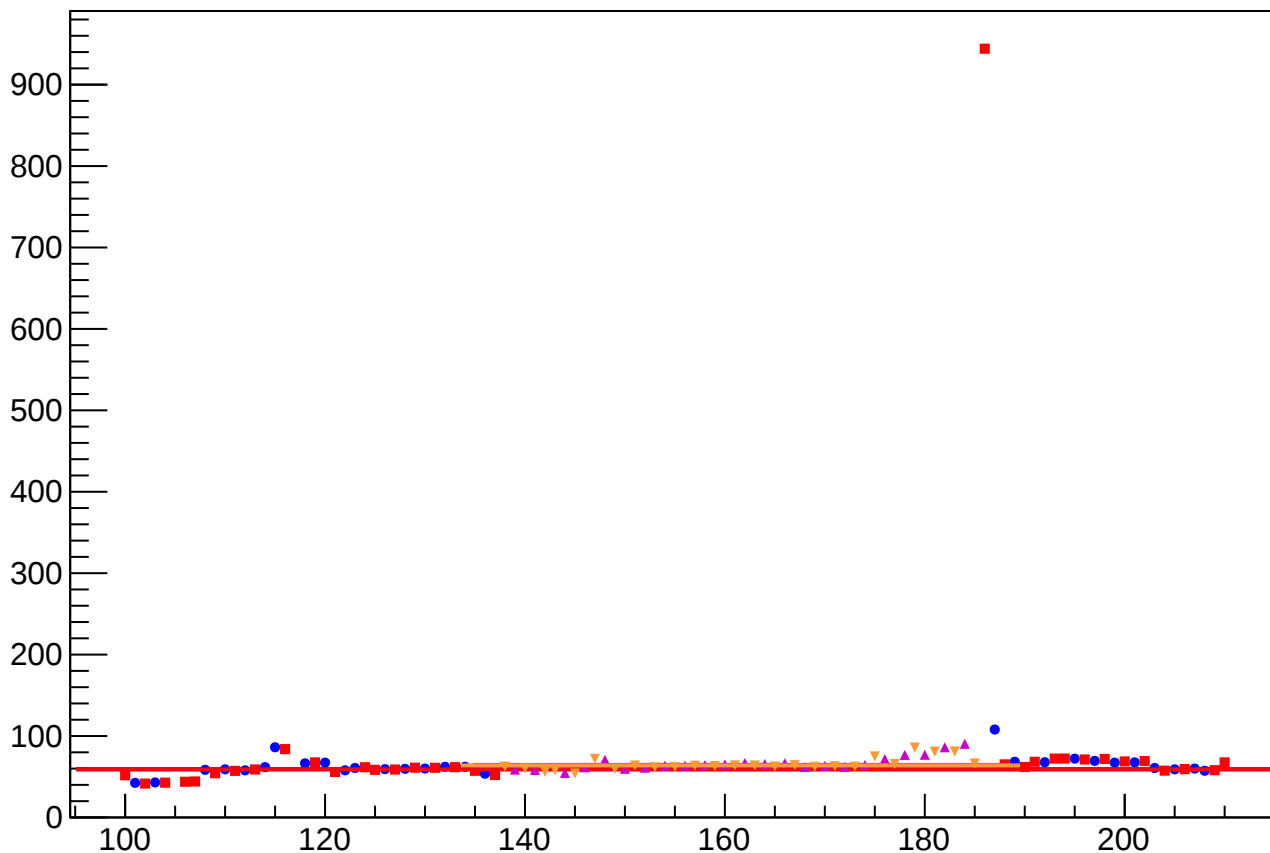
Right: 35.925 $\pm$ 10.869 χ^2 /NDF: 75.6/60

In: 27.919 $\pm$ 11.092 χ^2 /NDF:49.1/50

Out: 27.544 $\pm$ 10.573 χ^2 /NDF:80.1/57

All: 27.722 $\pm$ 7.653 χ^2 /NDF: 129.1/108

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.232 $\pm$ 0.011 χ^2 /NDF: 652398.5/27

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.036 $\pm$ 0.011 χ^2 /NDF: 1517728.4/32

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF: 370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

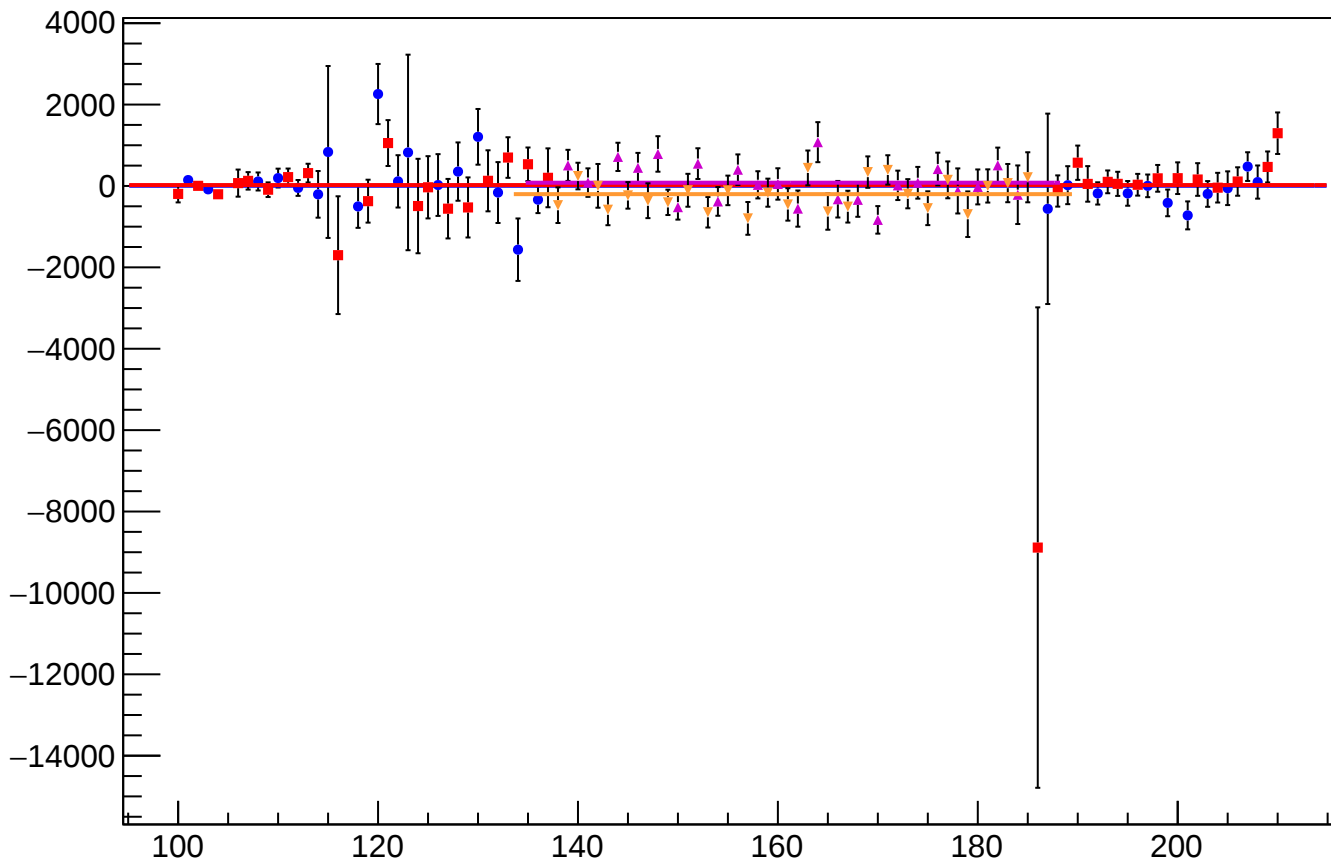
Right: 59.128 $\pm$ 0.008 χ^2 /NDF: 2170288.6/60

In: 61.924 $\pm$ 0.008 χ^2 /NDF: 1136118.4/50

Out: 61.473 $\pm$ 0.007 χ^2 /NDF: 2019811.7/57

All: 61.688 $\pm$ 0.005 χ^2 /NDF: 3157665.1/108

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 5.138 ± 46.339 χ^2/NDF : 33.6/27

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 21.686 ± 46.802 χ^2/NDF : 31.9/32

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

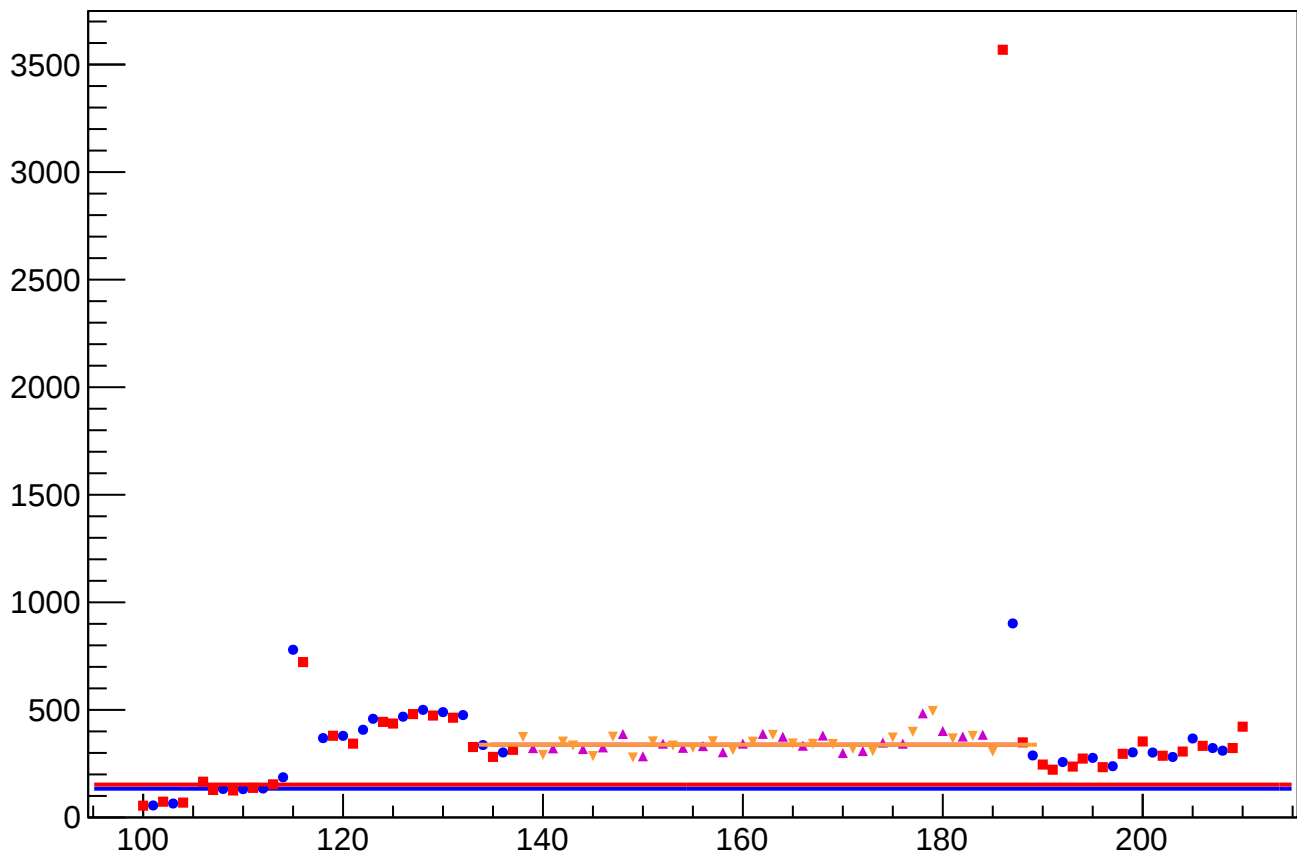
Right: 13.329 ± 32.929 χ^2/NDF : 65.5/60

In: 23.328 ± 40.317 χ^2/NDF : 67.6/50

Out: -35.598 ± 40.339 χ^2/NDF : 57.4/57

All: -6.119 ± 28.516 χ^2/NDF : 126.1/108

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 133.658 $\pm$ 0.033

χ^2 /NDF: 11420919.3/27

Left: 338.341 $\pm$ 0.040

χ^2 /NDF: 935873.7/47

Left Out: 338.130 $\pm$ 0.056

χ^2 /NDF: 498601.7/24

Right: 143.166 $\pm$ 0.023

χ^2 /NDF: 22760048.3/60

Right Out: 152.865 $\pm$ 0.033

χ^2 /NDF: 11169046.3/32

In: 183.456 $\pm$ 0.029

χ^2 /NDF: 21362267.1/50

Out: 200.504 $\pm$ 0.029

χ^2 /NDF: 19726187.1/57

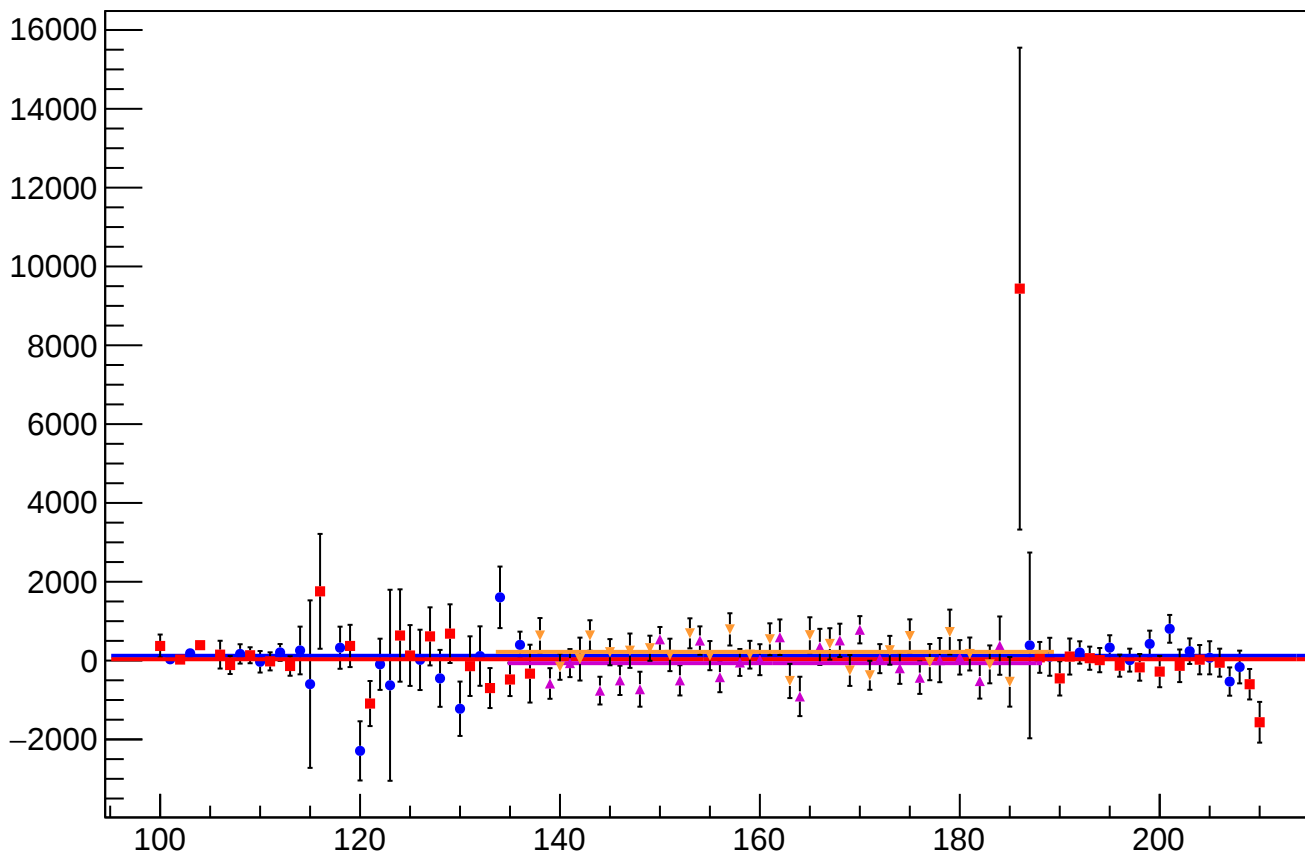
Left In: 338.564 $\pm$ 0.058

χ^2 /NDF: 437243.0/22

All: 191.976 $\pm$ 0.020

χ^2 /NDF: 41267159.3/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 121.767 $\pm$ 54.636 χ^2 /NDF: 30.3/27

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 33.783 $\pm$ 52.136 χ^2 /NDF: 40.1/32

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

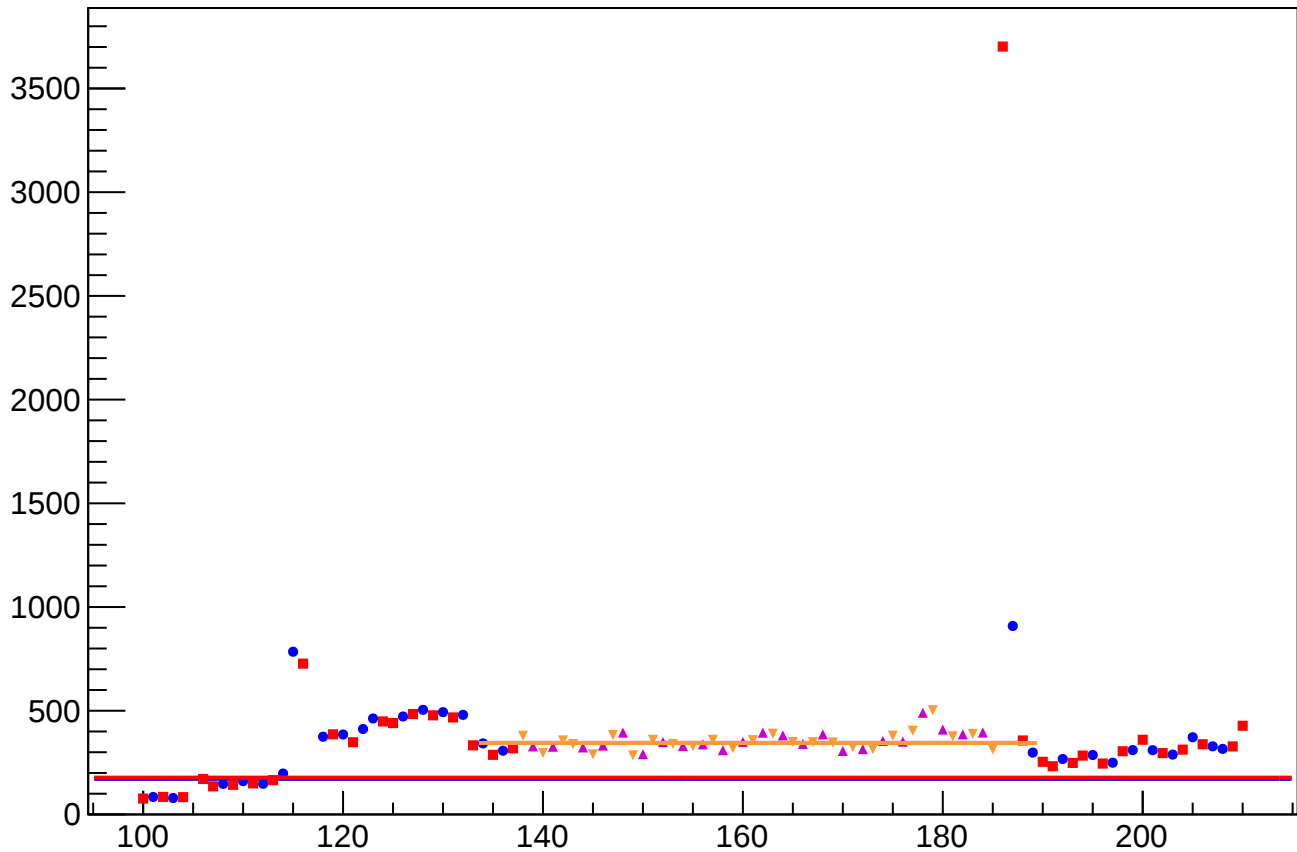
Right: 75.716 $\pm$ 37.719 χ^2 /NDF: 71.7/60

In: 65.452 $\pm$ 45.689 χ^2 /NDF:67.8/50

Out: 88.632 $\pm$ 43.843 χ^2 /NDF:63.6/57

All: 77.520 $\pm$ 31.634 χ^2 /NDF: 131.5/108

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 171.682 $\pm$ 0.039 χ^2 /NDF: 8614915.3/27

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 177.536 $\pm$ 0.037 χ^2 /NDF: 9362204.5/32

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

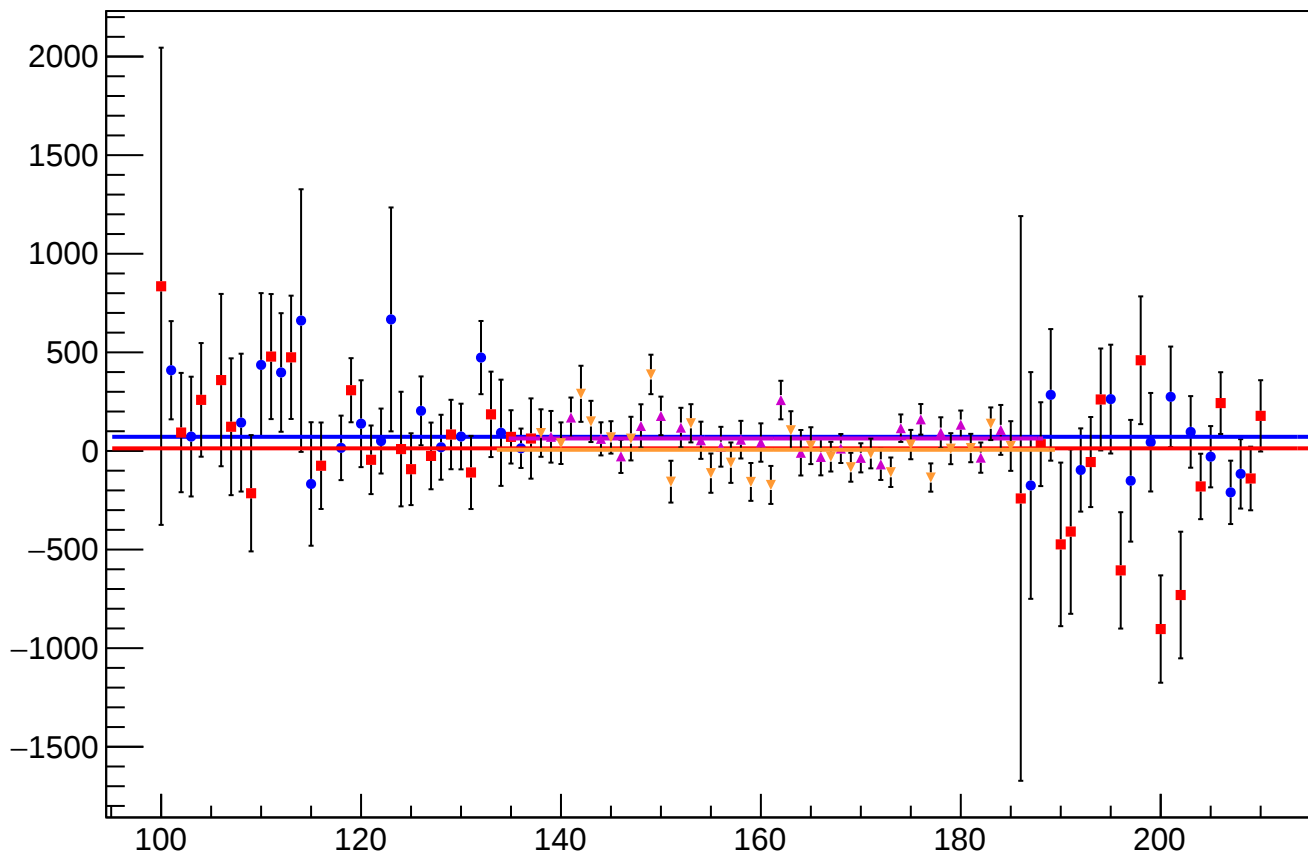
Right: 174.746 $\pm$ 0.027 χ^2 /NDF: 17989134.9/60

In: 223.811 $\pm$ 0.032 χ^2 /NDF:15096909.9/50

Out: 226.431 $\pm$ 0.031 χ^2 /NDF:15857541.9/57

All: 225.175 $\pm$ 0.022 χ^2 /NDF: 30957874.1/10

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 71.771 $\pm$ 39.362 χ^2 /NDF: 20.0/27

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 13.261 $\pm$ 38.986 χ^2 /NDF: 44.0/32

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

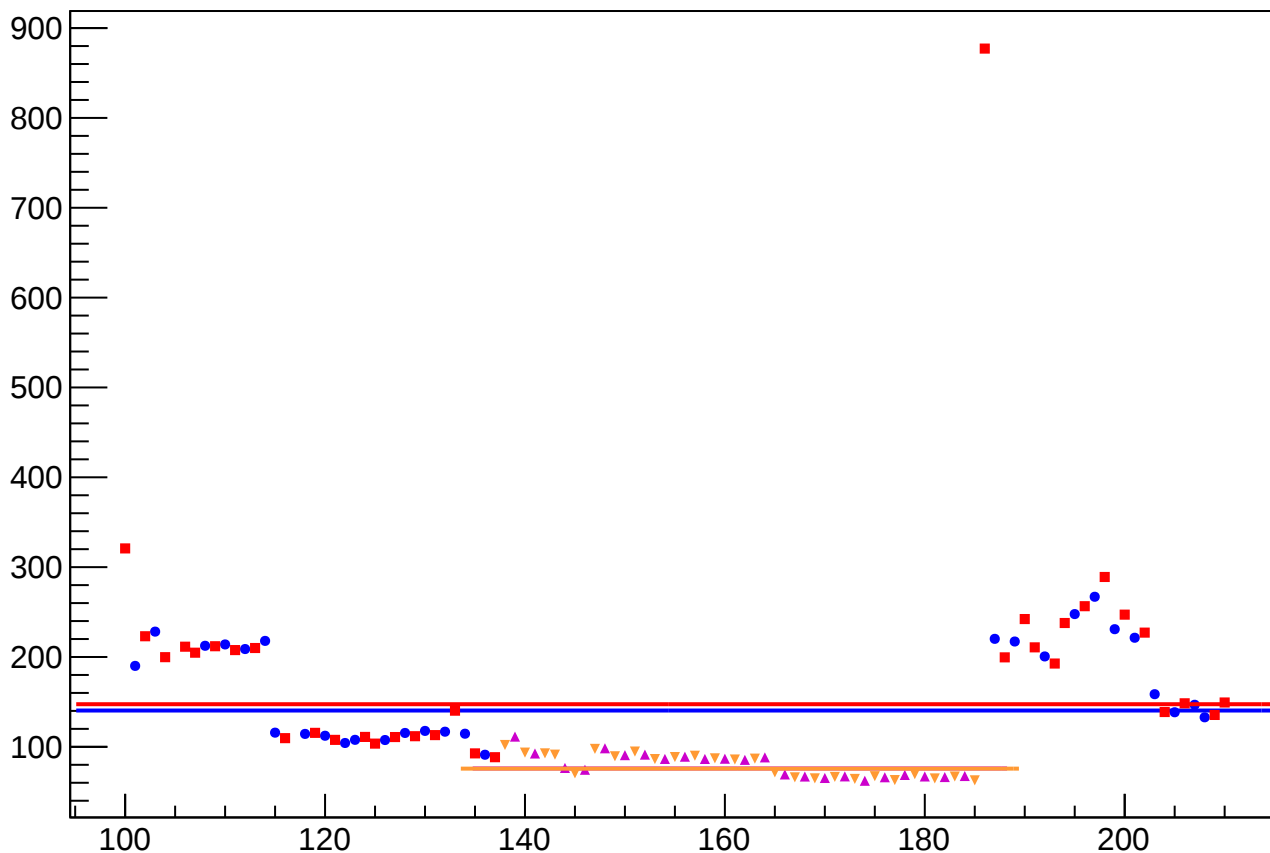
Right: 42.235 $\pm$ 27.699 χ^2 /NDF: 65.1/60

In: 64.808 $\pm$ 16.703 χ^2 /NDF:39.9/50

Out: 7.282 $\pm$ 16.275 χ^2 /NDF:90.1/57

All: 35.297 $\pm$ 11.657 χ^2 /NDF: 136.0/108

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.417 $\pm$ 0.028 χ^2 /NDF: 2871197.6/27

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.442 $\pm$ 0.028 χ^2 /NDF: 3885815.1/32

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

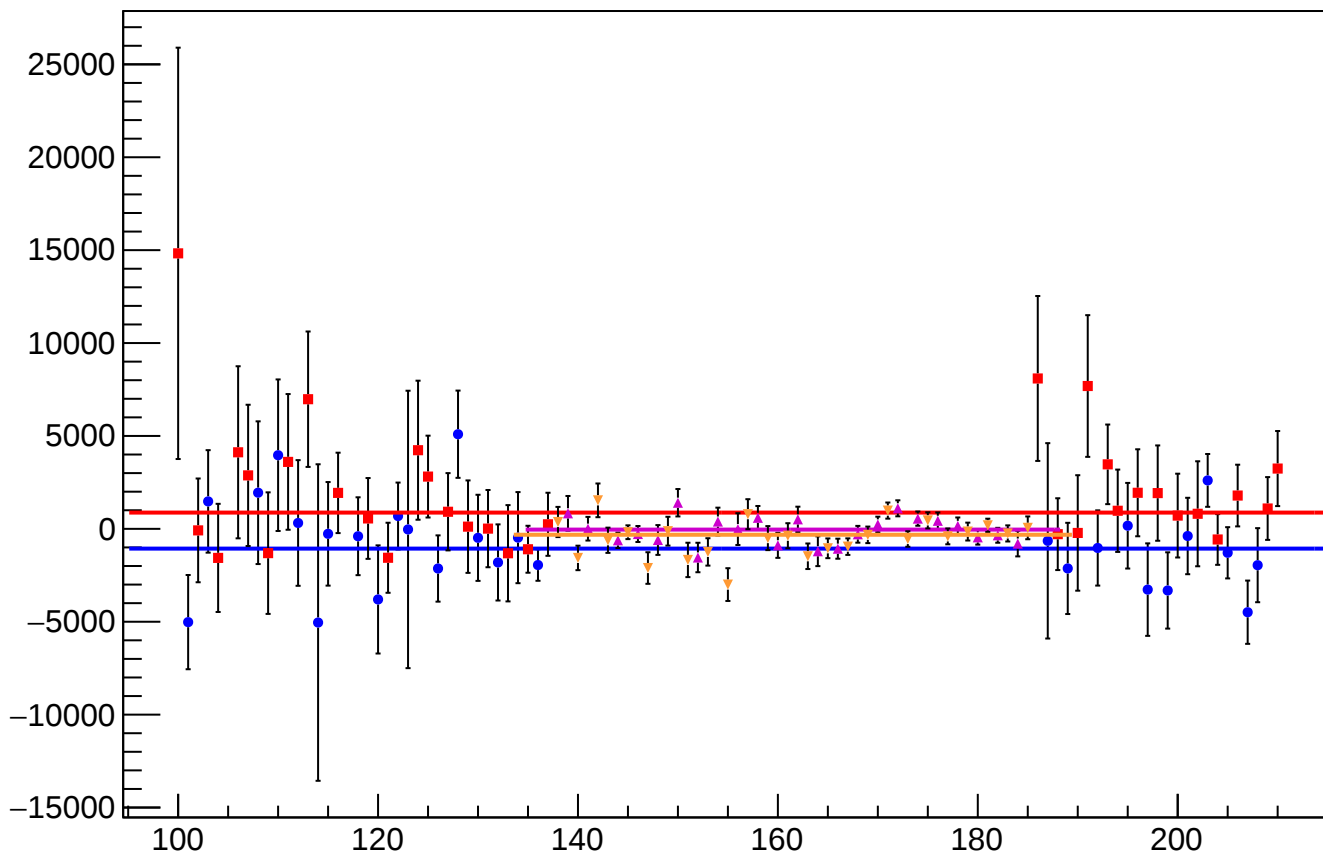
Right: 143.963 $\pm$ 0.020 χ^2 /NDF: 6789172.7/60

In: 87.525 $\pm$ 0.012 χ^2 /NDF:8106707.6/50

Out: 88.238 $\pm$ 0.012 χ^2 /NDF:10409469.3/57

All: 87.891 $\pm$ 0.008 χ^2 /NDF: 18518042.3/108

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1063.700 ± 386.893 $\chi^2/\text{NDF}: 29.9/27$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 874.876 ± 395.022 $\chi^2/\text{NDF}: 25.0/32$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

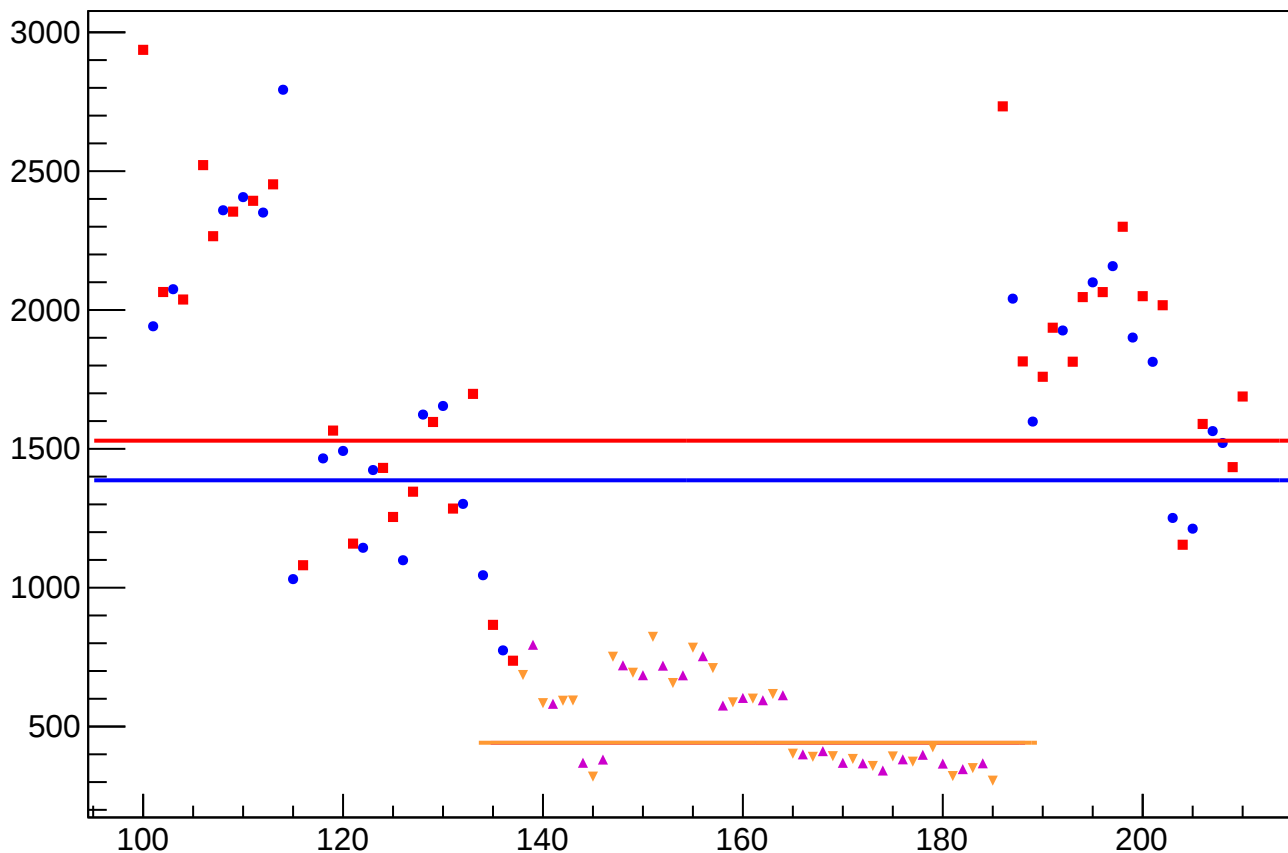
Right: -114.565 ± 276.404 $\chi^2/\text{NDF}: 67.3/60$

In: -117.325 ± 106.031 $\chi^2/\text{NDF}: 71.1/50$

Out: -235.076 ± 104.189 $\chi^2/\text{NDF}: 83.6/57$

All: -177.232 ± 74.315 $\chi^2/\text{NDF}: 155.3/108$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1386.741+/-0.274 χ^2/NDF : 2813008.6/27

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1529.437+/-0.279 χ^2/NDF : 2929518.8/32

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

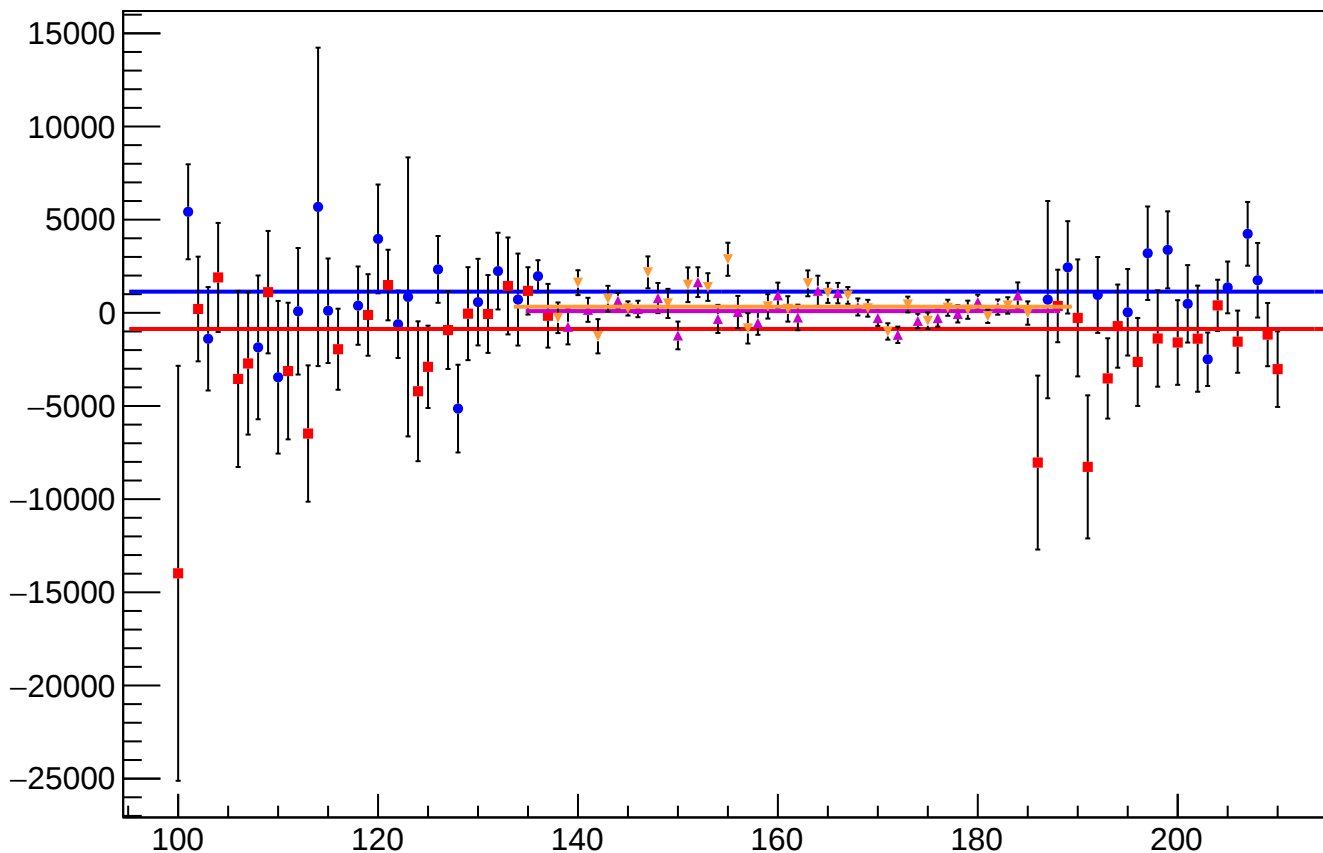
Right: 1456.606+/-0.195 χ^2/NDF : 5875730.9/60

In: 512.041+/-0.075 χ^2/NDF : 16462925.0/50

Out: 517.356+/-0.074 χ^2/NDF : 20208829.5/57

All: 514.745+/-0.053 χ^2/NDF : 36674311.2/10

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1136.668 $\pm$ 389.354 χ^2 /NDF: 29.2/27

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -866.896 $\pm$ 397.486 χ^2 /NDF: 24.4/32

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF: 33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

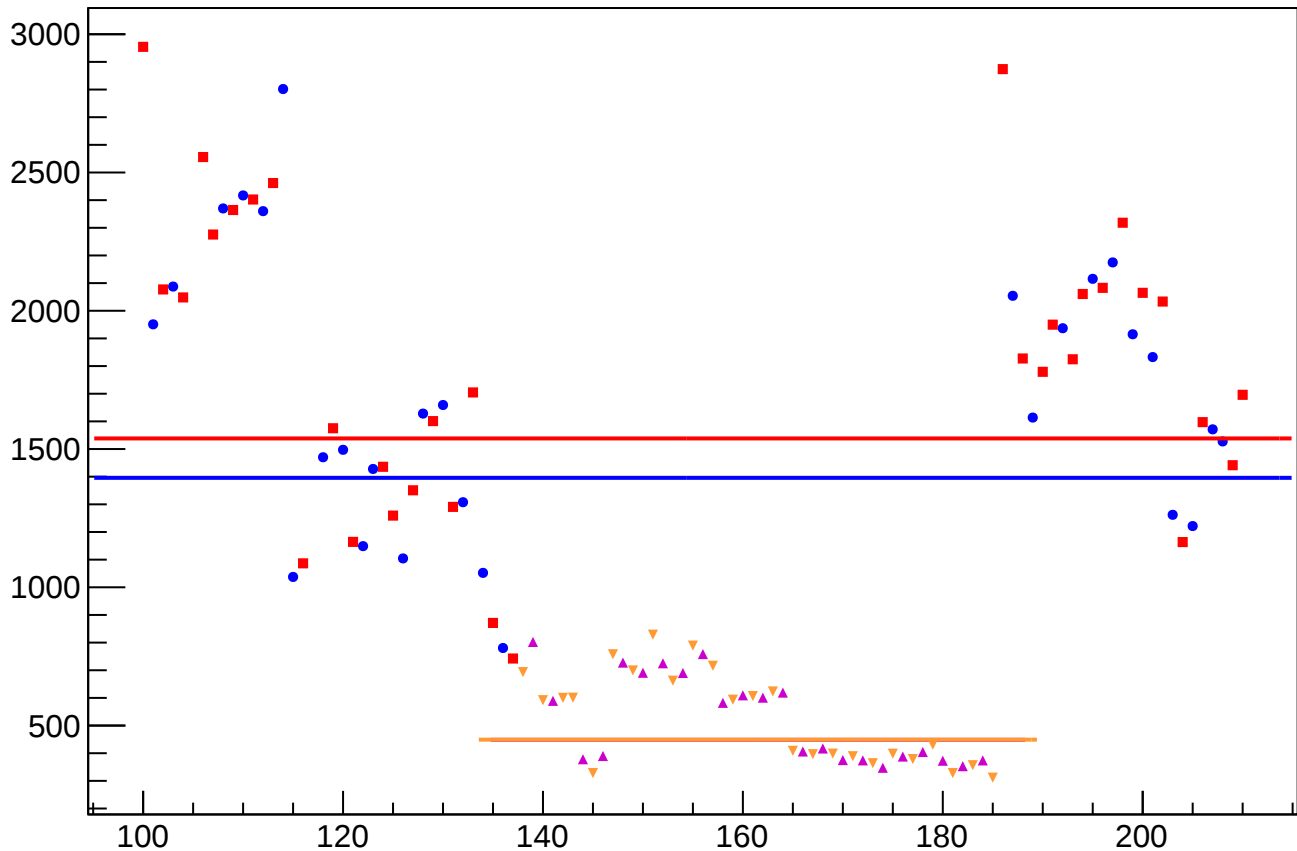
Right: 155.589 $\pm$ 278.145 χ^2 /NDF: 66.5/60

In: 172.993 $\pm$ 107.600 χ^2 /NDF: 69.2/50

Out: 244.031 $\pm$ 105.718 χ^2 /NDF: 80.5/57

All: 209.139 $\pm$ 75.410 χ^2 /NDF: 149.9/108

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1395.850+/-0.275 χ^2/NDF : 2803633.0/27

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1538.280+/-0.281 χ^2/NDF : 2949095.4/32

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

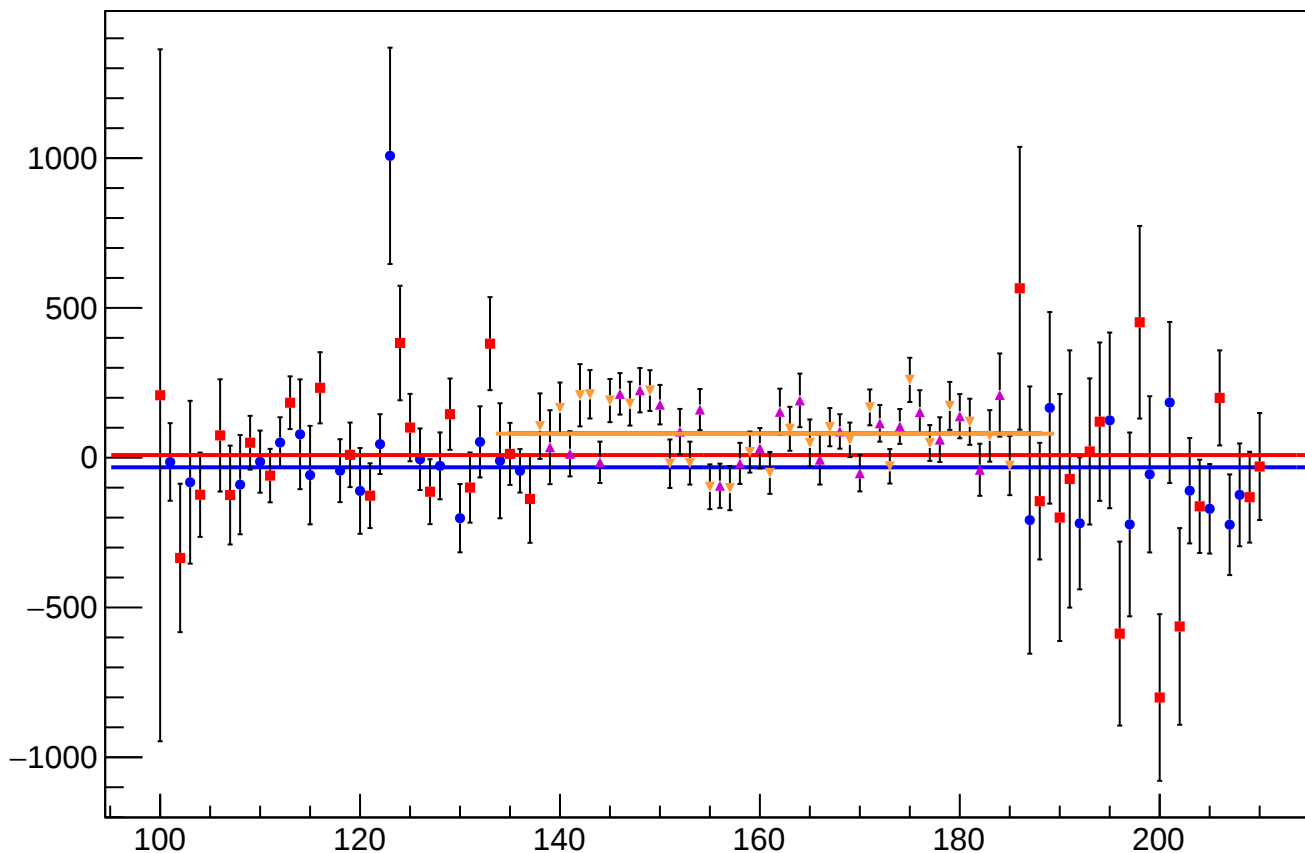
Right: 1465.594+/-0.197 χ^2/NDF : 5883780.3/60

In: 520.672+/-0.076 χ^2/NDF : 16281483.2/50

Out: 526.069+/-0.075 χ^2/NDF : 19996548.8/57

All: 523.418+/-0.053 χ^2/NDF : 36280592.3/10

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -32.069 ± 26.449 $\chi^2/\text{NDF}: 18.8/27$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 8.801 ± 25.461 $\chi^2/\text{NDF}: 51.4/32$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

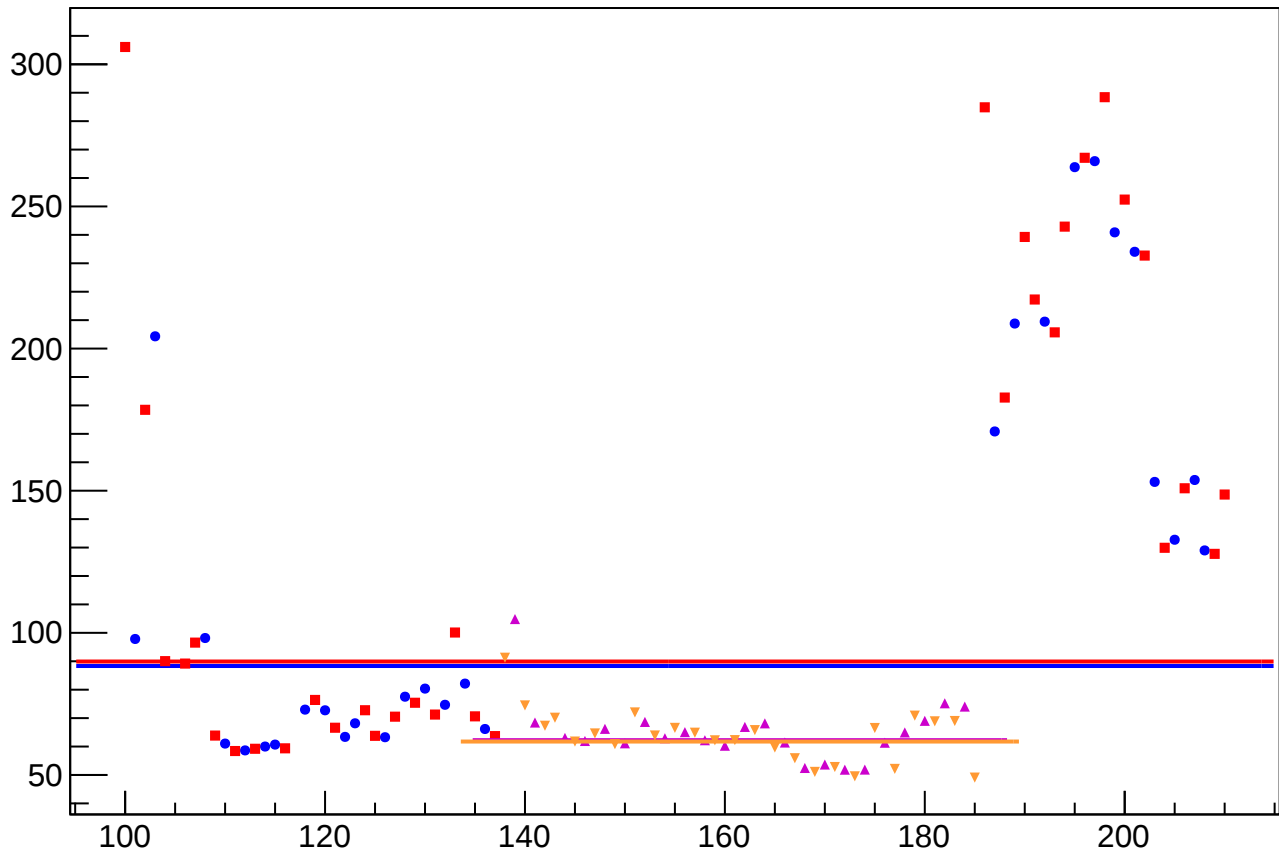
Right: -10.856 ± 18.343 $\chi^2/\text{NDF}: 71.5/60$

In: 53.308 ± 13.117 $\chi^2/\text{NDF}: 67.9/50$

Out: 62.524 ± 12.660 $\chi^2/\text{NDF}: 105.9/57$

All: 58.080 ± 9.109 $\chi^2/\text{NDF}: 174.1/108$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 88.329+/-0.019 χ^2/NDF : 5911418.4/27

Left Out: 61.761+/-0.010 χ^2/NDF : 645535.0/24

Right Out: 89.913+/-0.018 χ^2/NDF : 7271821.4/32

Left In: 62.250+/-0.011 χ^2/NDF : 591085.1/22

Left: 61.997+/-0.007 χ^2/NDF : 1237703.8/47

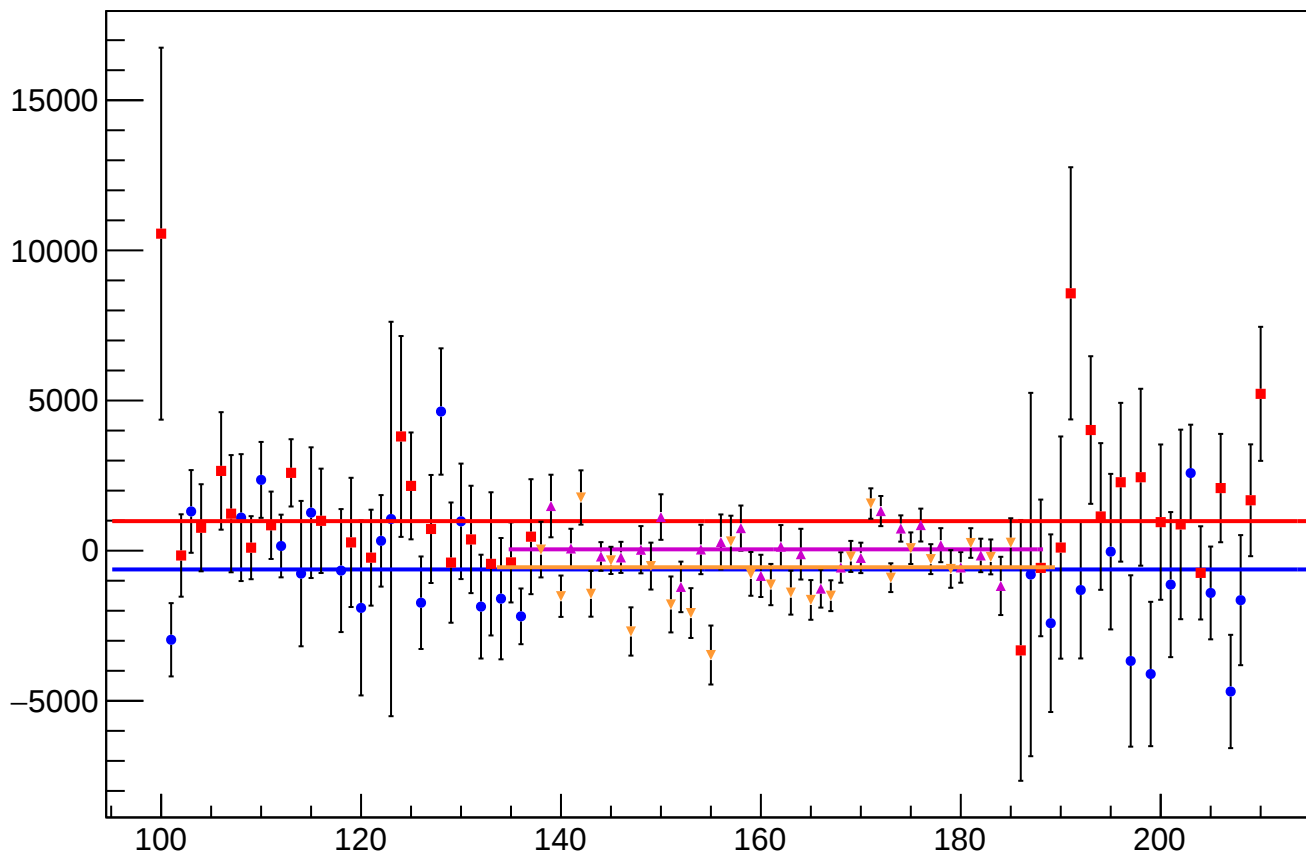
Right: 89.151+/-0.013 χ^2/NDF : 13186963.4/60

In: 68.664+/-0.009 χ^2/NDF : 7968671.4/50

Out: 68.722+/-0.009 χ^2/NDF : 9757888.0/57

All: 68.694+/-0.006 χ^2/NDF : 17726579.4/108

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -624.763+/-332.093 χ^2/NDF : 37.8/27

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 983.831+/-320.879 χ^2/NDF : 22.7/32

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

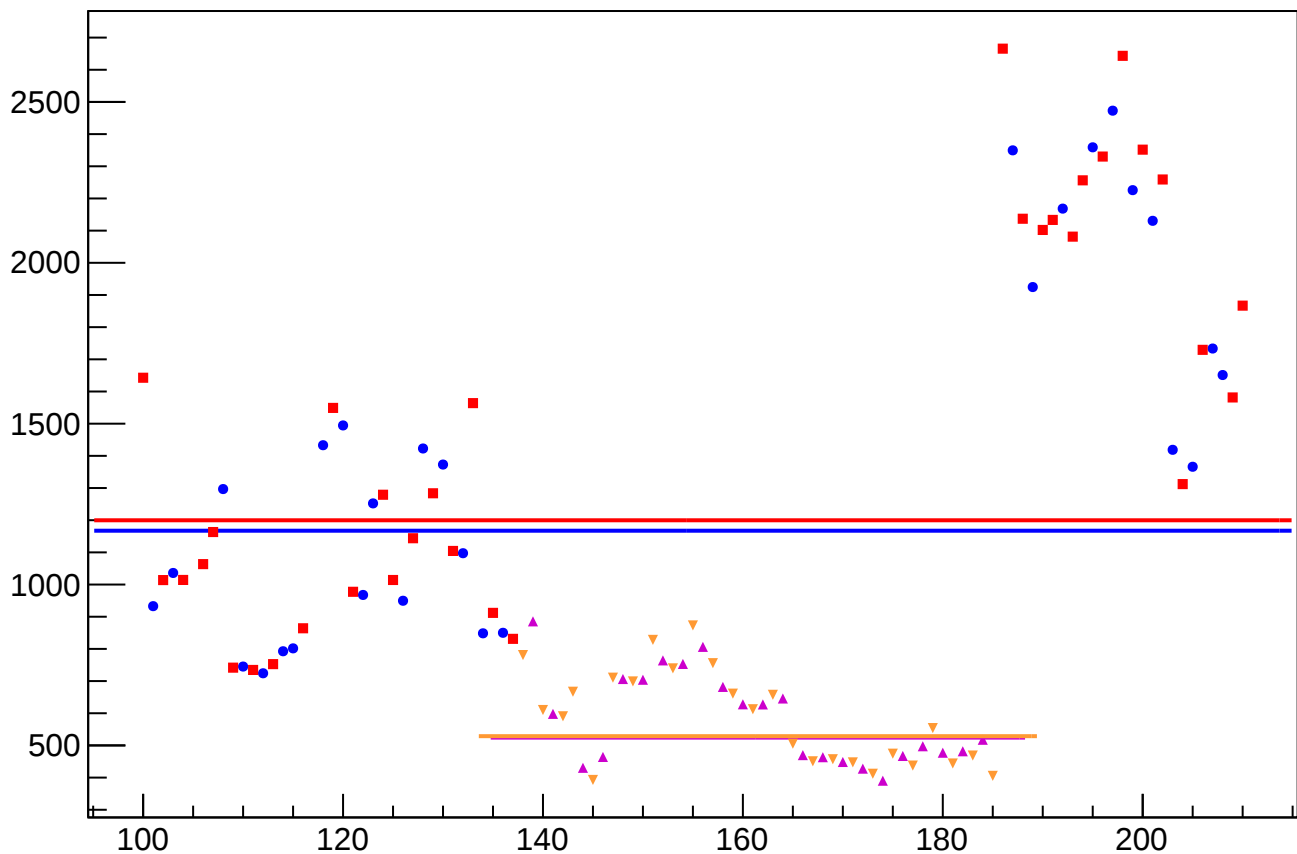
Right: 207.152+/-230.758 χ^2/NDF : 72.6/60

In: -43.289+/-120.323 χ^2/NDF : 70.9/50

Out: -344.494+/-118.072 χ^2/NDF : 107.8/57

All: -196.735+/-84.274 χ^2/NDF : 181.9/108

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1167.330 $\pm$ 0.235 χ^2 /NDF: 3763825.3/27

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1199.752 $\pm$ 0.227 χ^2 /NDF: 4877901.6/32

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

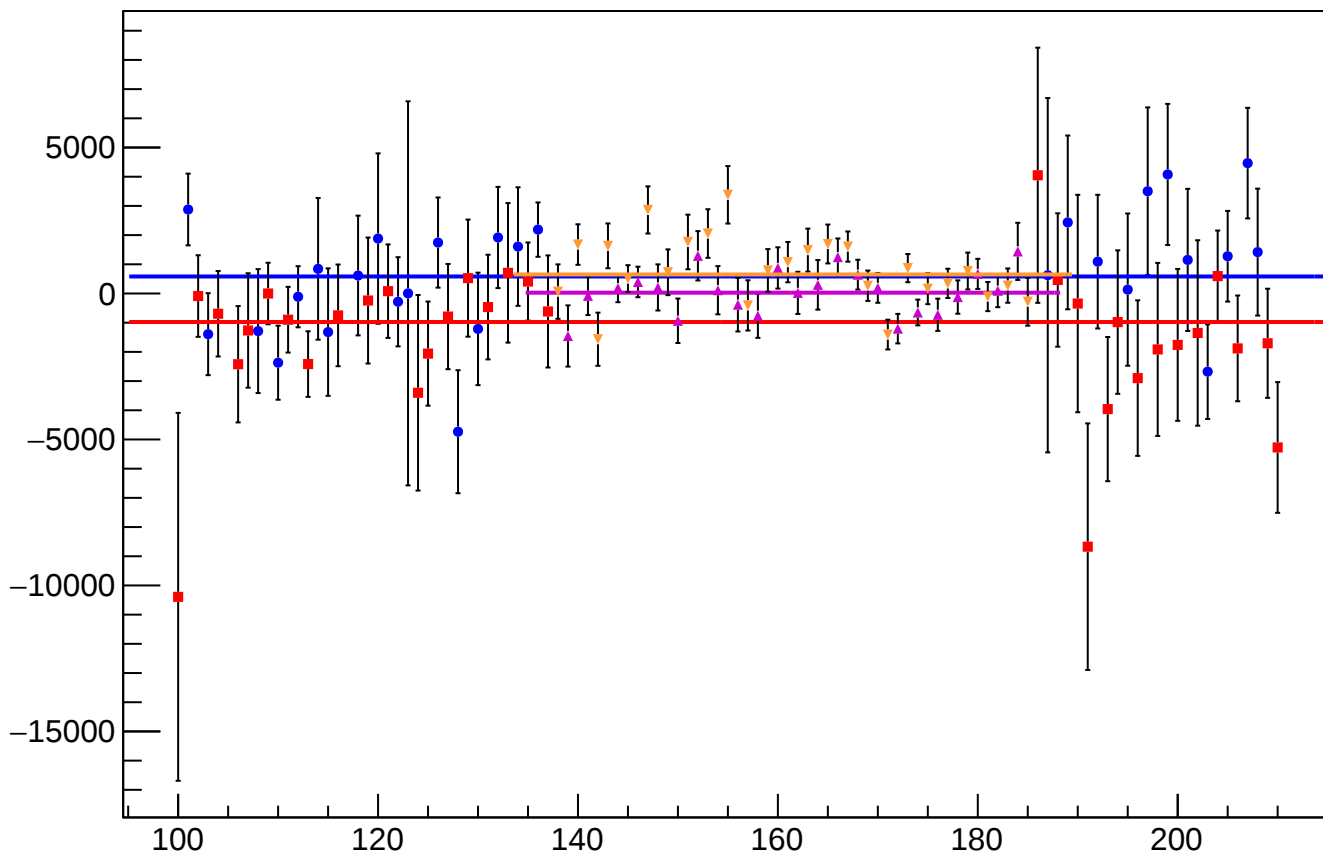
Right: 1184.098 $\pm$ 0.163 χ^2 /NDF: 8651586.3/60

In: 608.685 $\pm$ 0.085 χ^2 /NDF:11994830.5/50

Out: 619.590 $\pm$ 0.083 χ^2 /NDF:14423480.0/57

All: 614.241 $\pm$ 0.060 χ^2 /NDF: 26426678.7/10

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 582.979+/-333.672 χ^2/NDF : 37.3/27

Left Out: 651.560+/-127.961 χ^2/NDF :61.1/24

Right Out: -976.948+/-322.501 χ^2/NDF : 21.8/32

Left In: 27.483+/-130.127 χ^2/NDF :28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

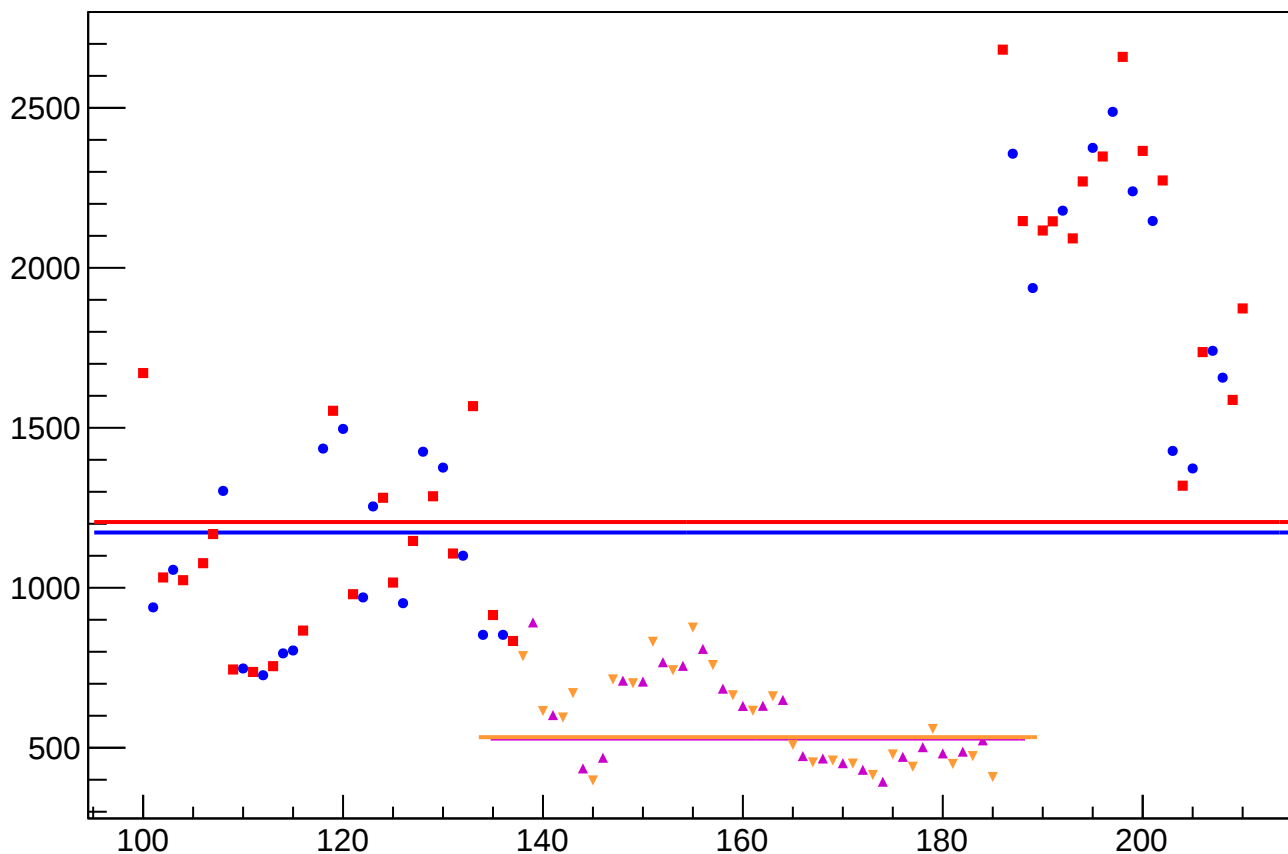
Right: -223.534+/-231.892 χ^2/NDF : 70.4/60

In: 100.814+/-121.234 χ^2/NDF :68.1/50

Out: 430.053+/-118.941 χ^2/NDF :104.9/57

All: 268.577+/-84.903 χ^2/NDF : 176.8/108

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1172.719 $\pm$ 0.236 χ^2 /NDF: 3770933.3/27

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1205.482 $\pm$ 0.228 χ^2 /NDF: 4886101.2/32

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

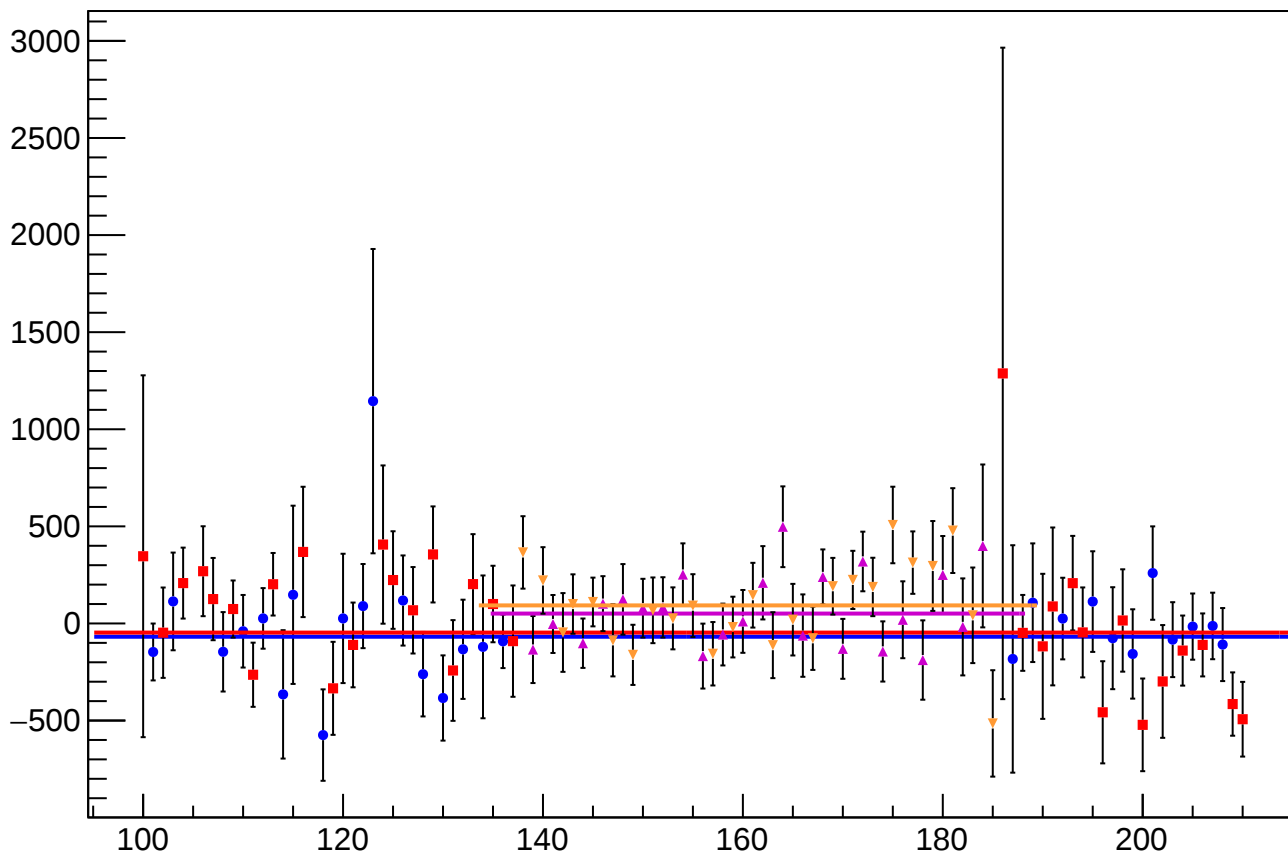
Right: 1189.658 $\pm$ 0.164 χ^2 /NDF: 8667004.4/60

In: 613.712 $\pm$ 0.086 χ^2 /NDF: 11926531.7/50

Out: 624.522 $\pm$ 0.084 χ^2 /NDF: 14349641.4/57

All: 619.220 $\pm$ 0.060 χ^2 /NDF: 26284275.9/100

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -68.374 ± 41.480 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -47.056 ± 39.146 $\chi^2/\text{NDF}: 39.9/32$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

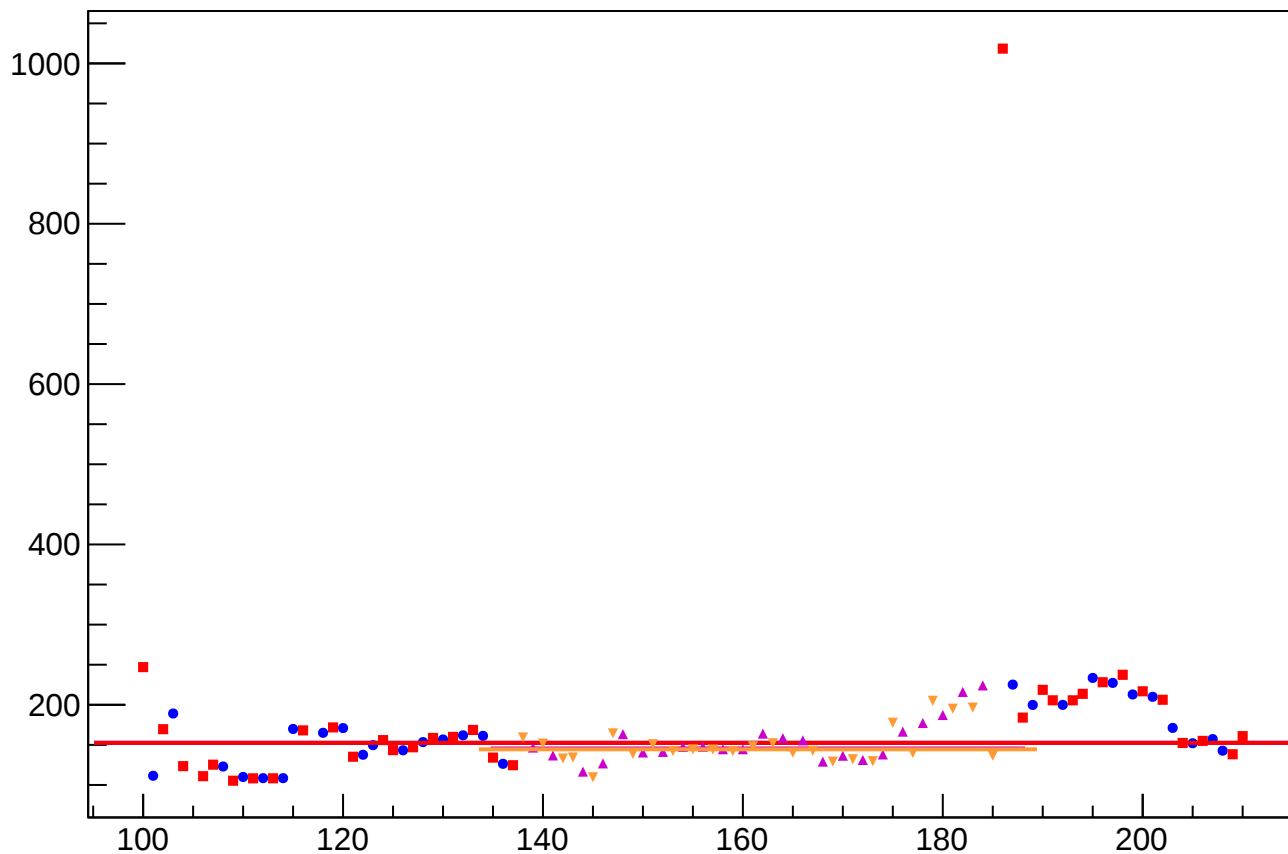
Right: -57.099 ± 28.470 $\chi^2/\text{NDF}: 56.9/60$

In: 0.832 ± 26.874 $\chi^2/\text{NDF}: 45.2/50$

Out: 32.665 ± 25.693 $\chi^2/\text{NDF}: 76.6/57$

All: 17.464 ± 18.571 $\chi^2/\text{NDF}: 122.5/108$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.593 $\pm$ 0.029 χ^2 /NDF: 1458901.0/27

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 152.533 $\pm$ 0.028 χ^2 /NDF: 2283323.4/32

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

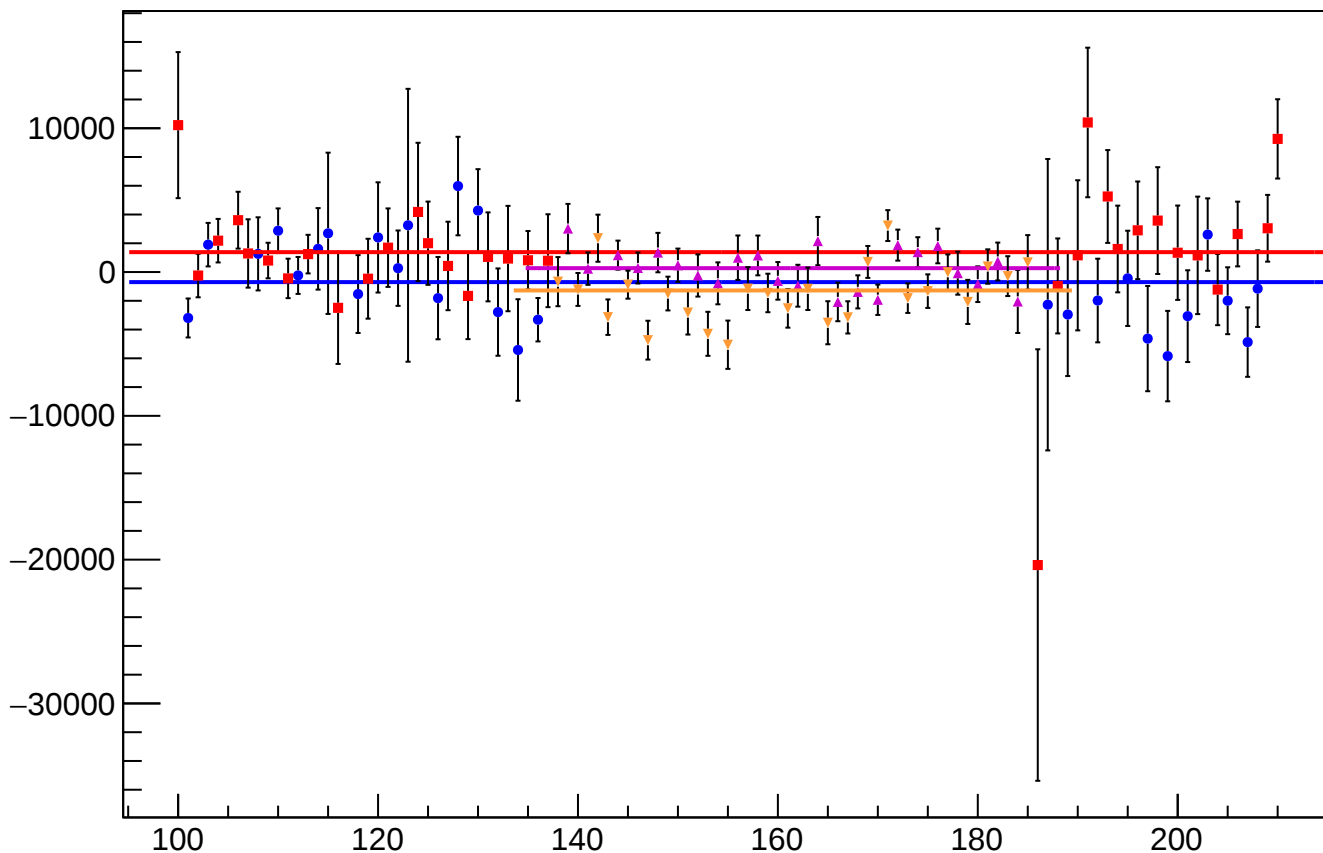
Right: 152.561 $\pm$ 0.020 χ^2 /NDF: 3742226.7/60

In: 148.497 $\pm$ 0.019 χ^2 /NDF: 2136032.4/50

Out: 147.946 $\pm$ 0.018 χ^2 /NDF: 3002044.2/57

All: 148.209 $\pm$ 0.013 χ^2 /NDF: 5138516.4/108

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -700.354 ± 454.903 $\chi^2/\text{NDF}: 36.6/27$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1383.233 ± 419.683 $\chi^2/\text{NDF}: 28.5/32$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

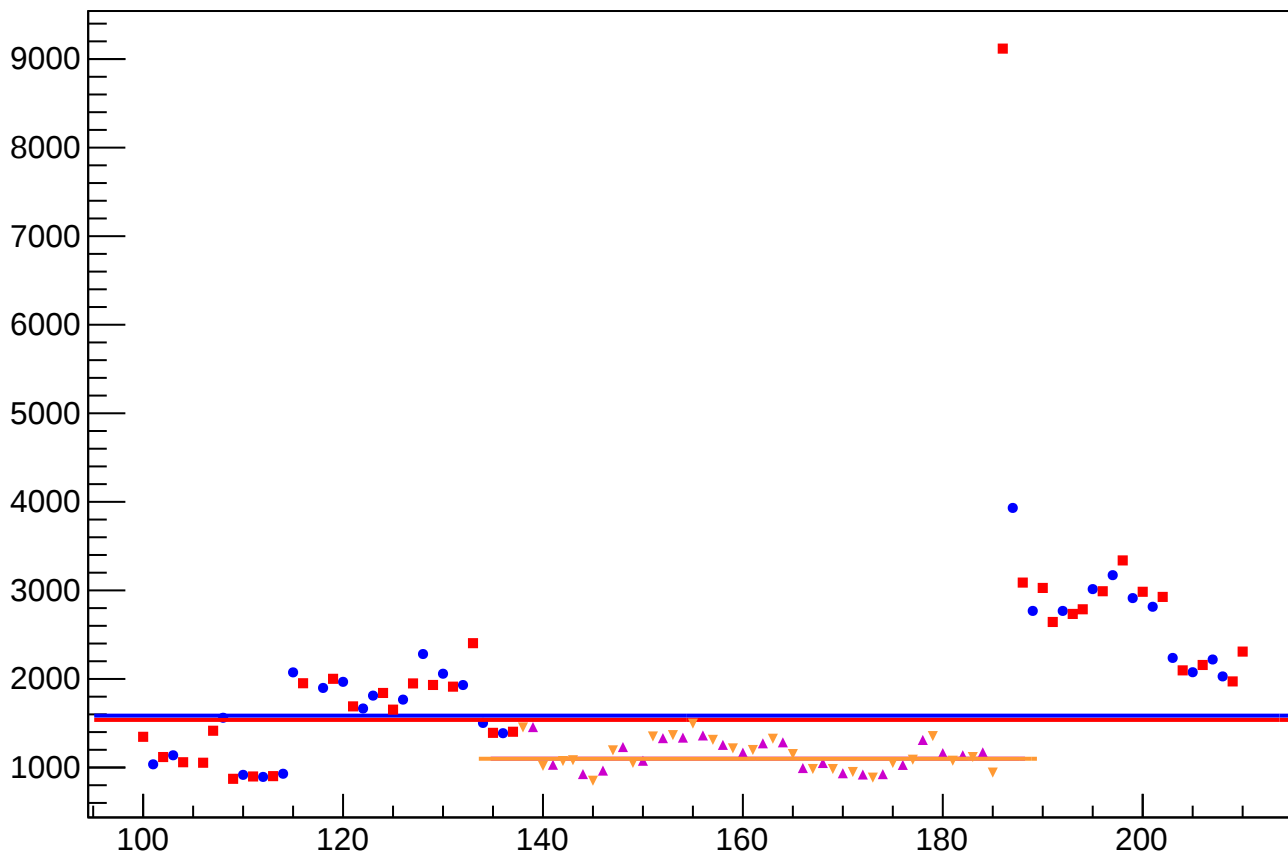
Right: 425.212 ± 308.461 $\chi^2/\text{NDF}: 76.5/60$

In: 22.379 ± 229.782 $\chi^2/\text{NDF}: 64.3/50$

Out: -543.739 ± 220.591 $\chi^2/\text{NDF}: 113.6/57$

All: -272.228 ± 159.132 $\chi^2/\text{NDF}: 181.0/108$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1585.733+/-0.322 χ^2/NDF : 4241539.0/27

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1537.470+/-0.297 χ^2/NDF : 6023891.3/32

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

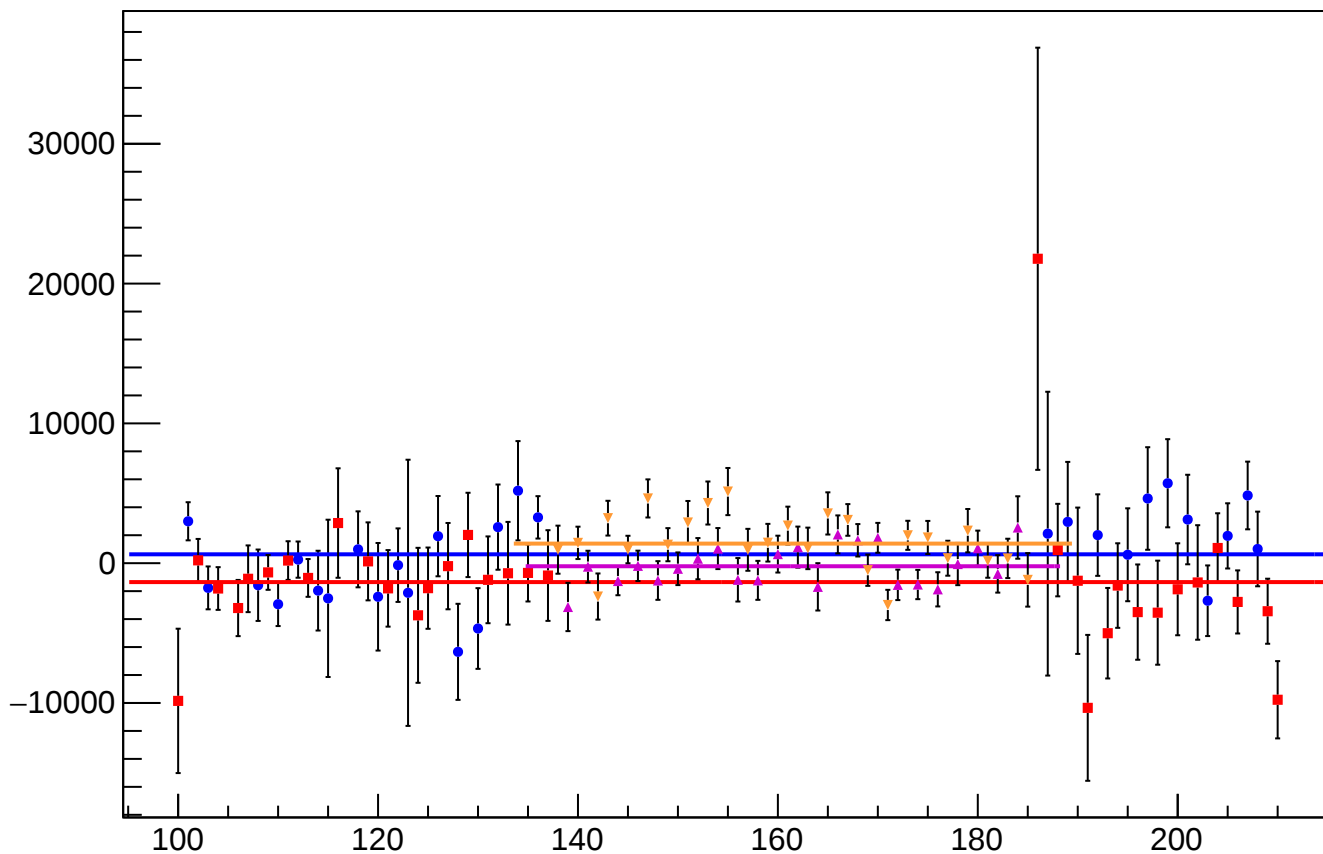
Right: 1559.661+/-0.218 χ^2/NDF : 10277591.7/60

In: 1223.625+/-0.162 χ^2/NDF : 6622800.6/50

Out: 1220.071+/-0.156 χ^2/NDF : 8428824.3/57

All: 1221.775+/-0.113 χ^2/NDF : 15051874.0/112

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 634.638 ± 457.442 χ^2/NDF : 36.3/27

Left Out: 1400.458 ± 261.804 χ^2/NDF : 52.2/24

Right Out: -1352.304 ± 422.396 χ^2/NDF : 28.9/32

Left In: -219.393 ± 268.852 χ^2/NDF : 25.0/22

Left: 612.044 ± 187.566 χ^2/NDF : 95.9/47

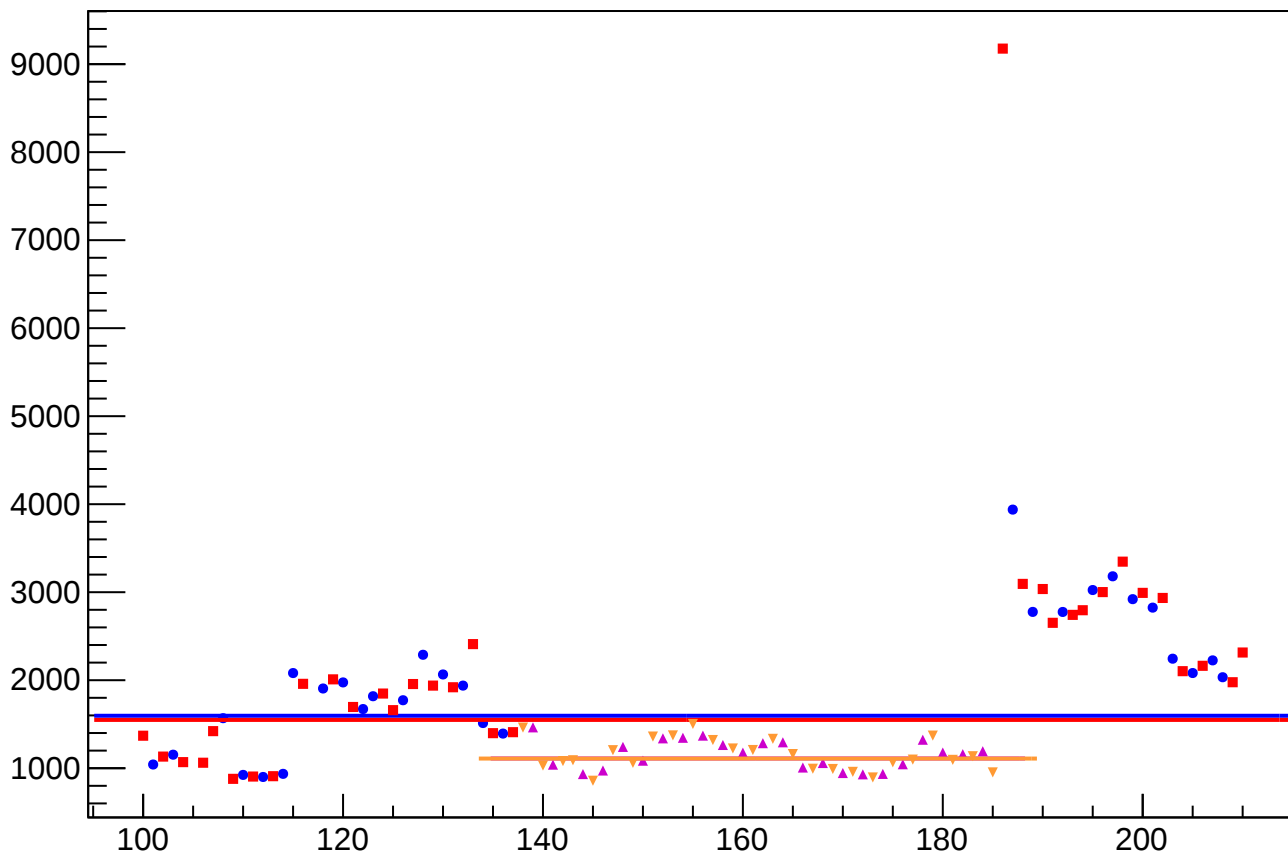
Right: -437.854 ± 310.330 χ^2/NDF : 75.3/60

In: -0.128 ± 231.784 χ^2/NDF : 63.9/50

Out: 636.455 ± 222.527 χ^2/NDF : 111.8/57

All: 331.129 ± 160.523 χ^2/NDF : 179.6/108

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1595.986+/-0.323

χ^2/NDF : 4200034.9/27

Left: 1110.141+/-0.133

χ^2/NDF : 1482112.5/47

Left Out: 1109.761+/-0.185

χ^2/NDF : 812174.9/24

Right: 1570.512+/-0.219

χ^2/NDF : 10178035.2/60

Right Out: 1548.792+/-0.299

χ^2/NDF : 5966509.9/32

In: 1235.175+/-0.164

χ^2/NDF : 6544043.1/50

Out: 1231.610+/-0.157

χ^2/NDF : 8339653.5/57

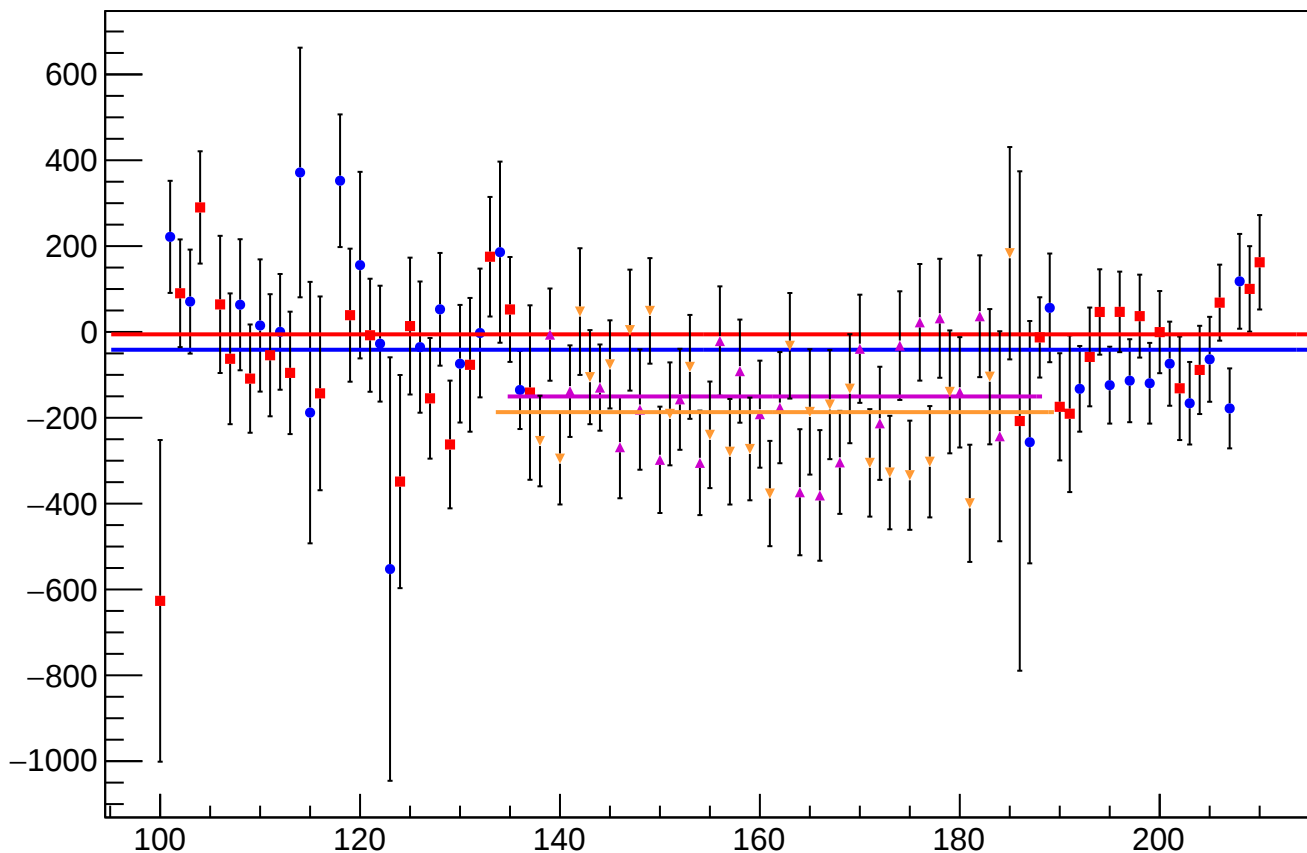
Left In: 1110.542+/-0.190

χ^2/NDF : 669928.9/22

All: 1233.320+/-0.114

χ^2/NDF : 14883942.8/1

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



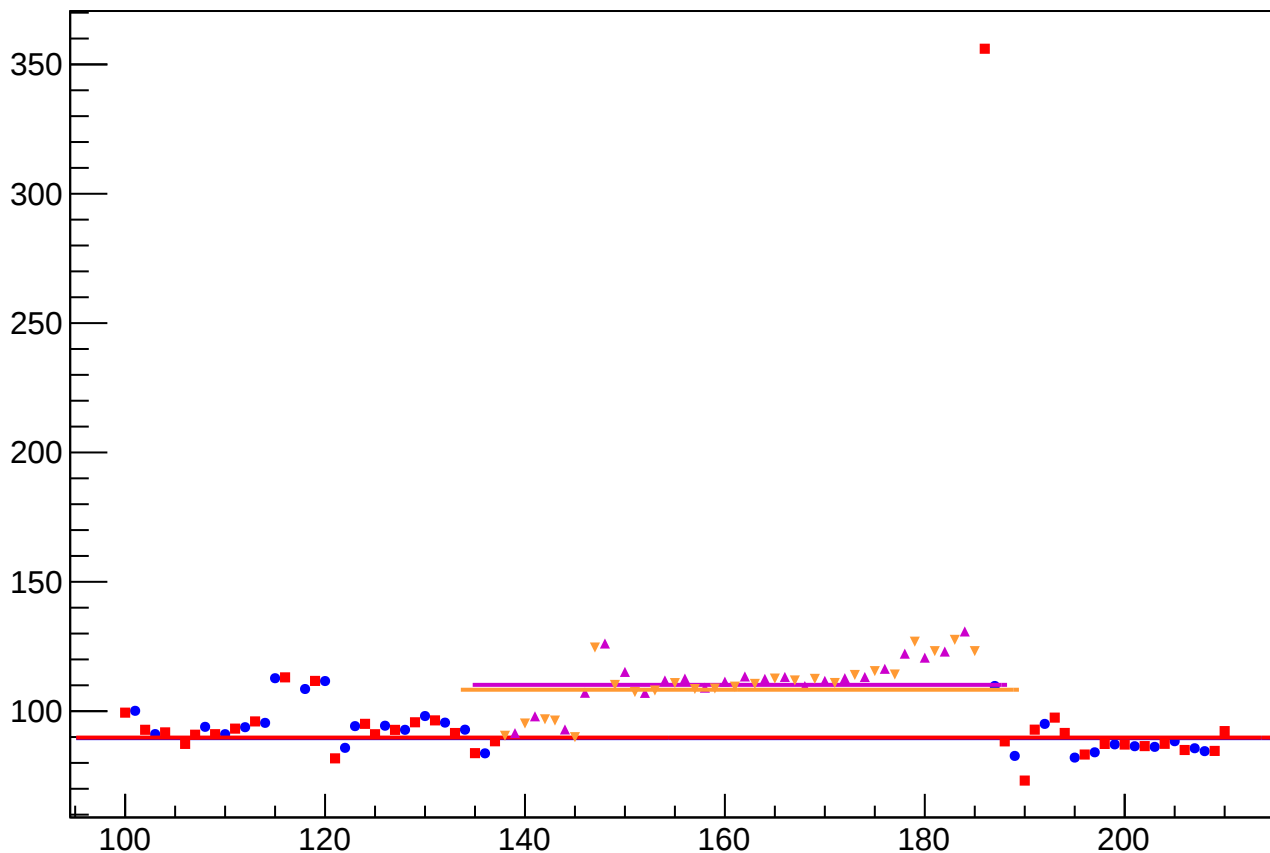
Right In: -41.480 ± 23.669 $\chi^2/\text{NDF}: 29.3/27$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -5.581 ± 22.253 $\chi^2/\text{NDF}: 28.9/32$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: -22.425 ± 16.213 $\chi^2/\text{NDF}: 59.4/60$

In: -89.888 ± 17.637 $\chi^2/\text{NDF}: 59.4/50$
 Out: -84.615 ± 16.712 $\chi^2/\text{NDF}: 84.4/57$

All: -87.109 ± 12.131 $\chi^2/\text{NDF}: 143.8/108$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.570 $\pm$ 0.017 χ^2 /NDF: 161597.7/27

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.792 $\pm$ 0.016 χ^2 /NDF: 583966.7/32

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

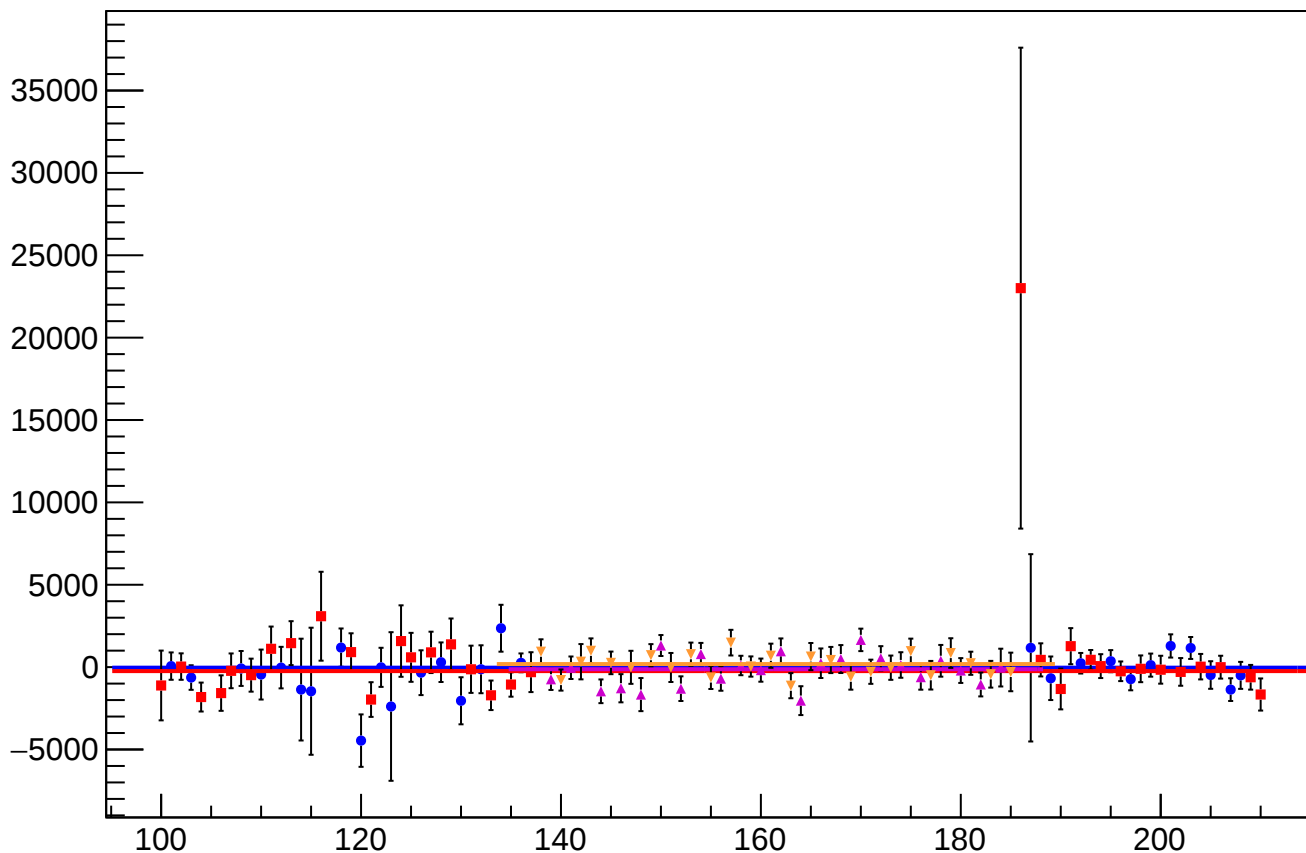
Right: 89.688 $\pm$ 0.011 χ^2 /NDF: 745657.9/60

In: 98.734 $\pm$ 0.012 χ^2 /NDF: 1082598.8/50

Out: 97.857 $\pm$ 0.012 χ^2 /NDF: 1517071.9/57

All: 98.272 $\pm$ 0.009 χ^2 /NDF: 2602277.7/108

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -32.945 ± 176.986 $\chi^2/\text{NDF}: 28.4/27$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -242.450 ± 167.494 $\chi^2/\text{NDF}: 29.6/32$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

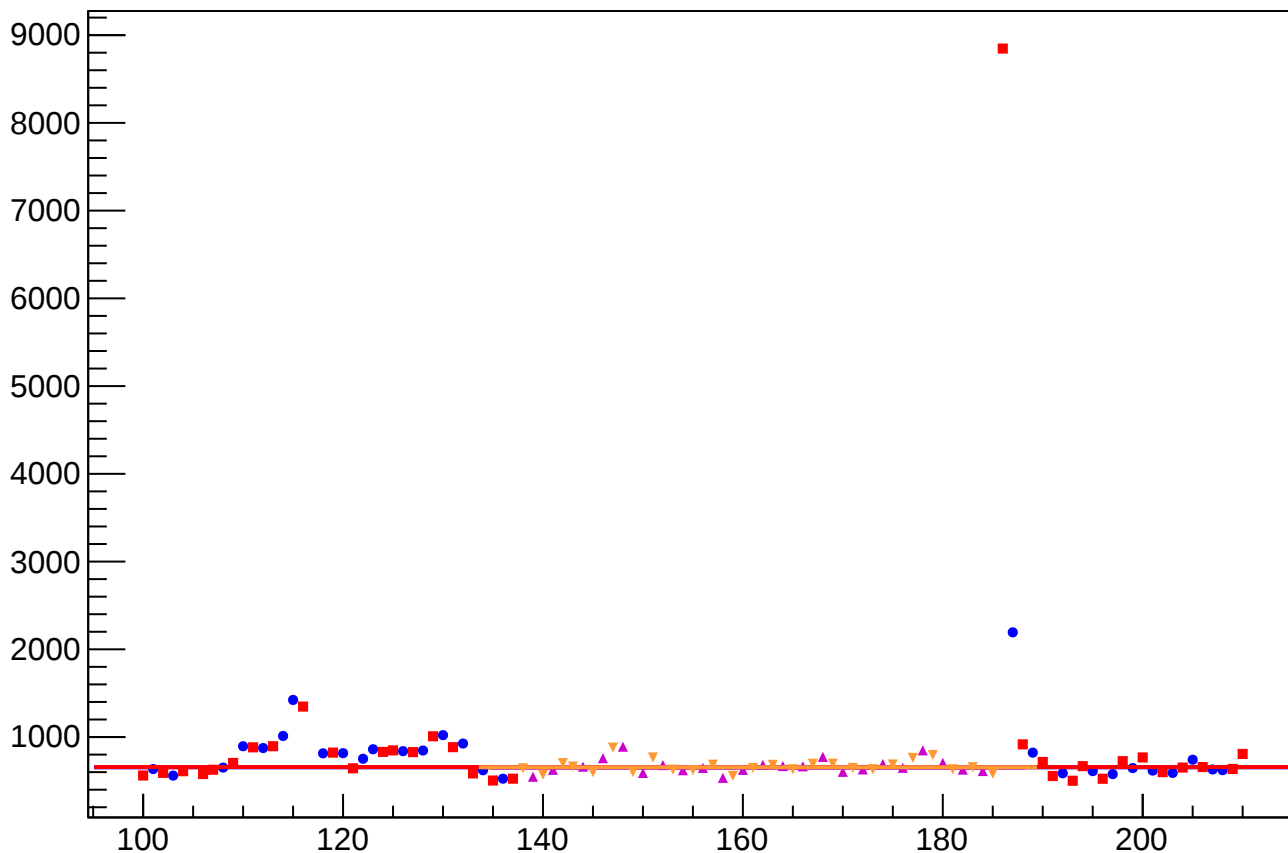
Right: -143.466 ± 121.654 $\chi^2/\text{NDF}: 58.7/60$

In: -86.531 ± 117.514 $\chi^2/\text{NDF}: 64.7/50$

Out: -10.165 ± 113.239 $\chi^2/\text{NDF}: 51.5/57$

All: -46.934 ± 81.541 $\chi^2/\text{NDF}: 116.5/108$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 655.309+/-0.125 χ^2/NDF : 1007066.8/27

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 657.548+/-0.118 χ^2/NDF : 1815398.5/32

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

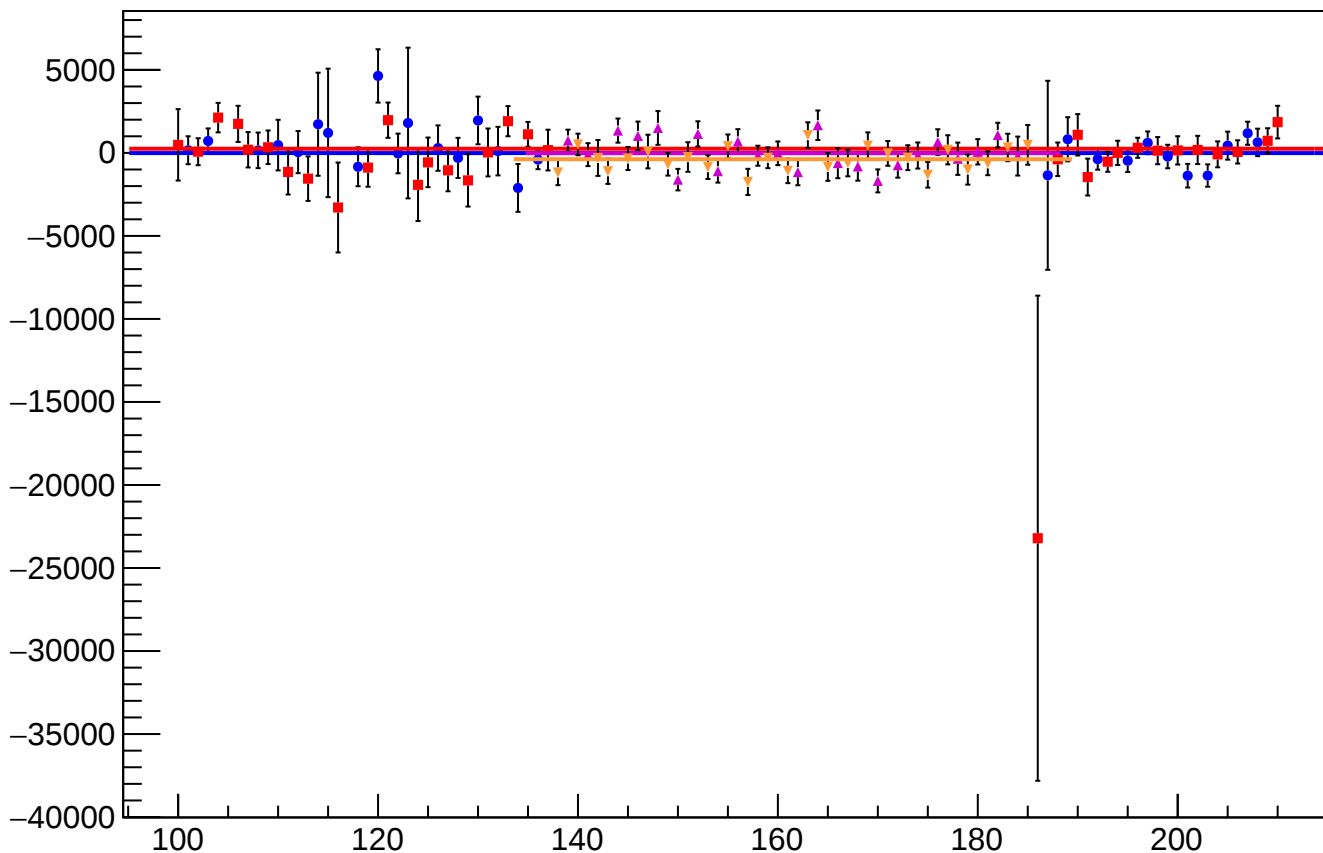
Right: 656.490+/-0.086 χ^2/NDF : 2822634.2/60

In: 652.834+/-0.083 χ^2/NDF : 1473882.8/50

Out: 656.249+/-0.080 χ^2/NDF : 2182970.0/57

All: 654.605+/-0.058 χ^2/NDF : 3657728.5/108

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -11.190 ± 178.782 $\chi^2/\text{NDF}: 28.8/27$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 251.196 ± 169.263 $\chi^2/\text{NDF}: 34.1/32$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

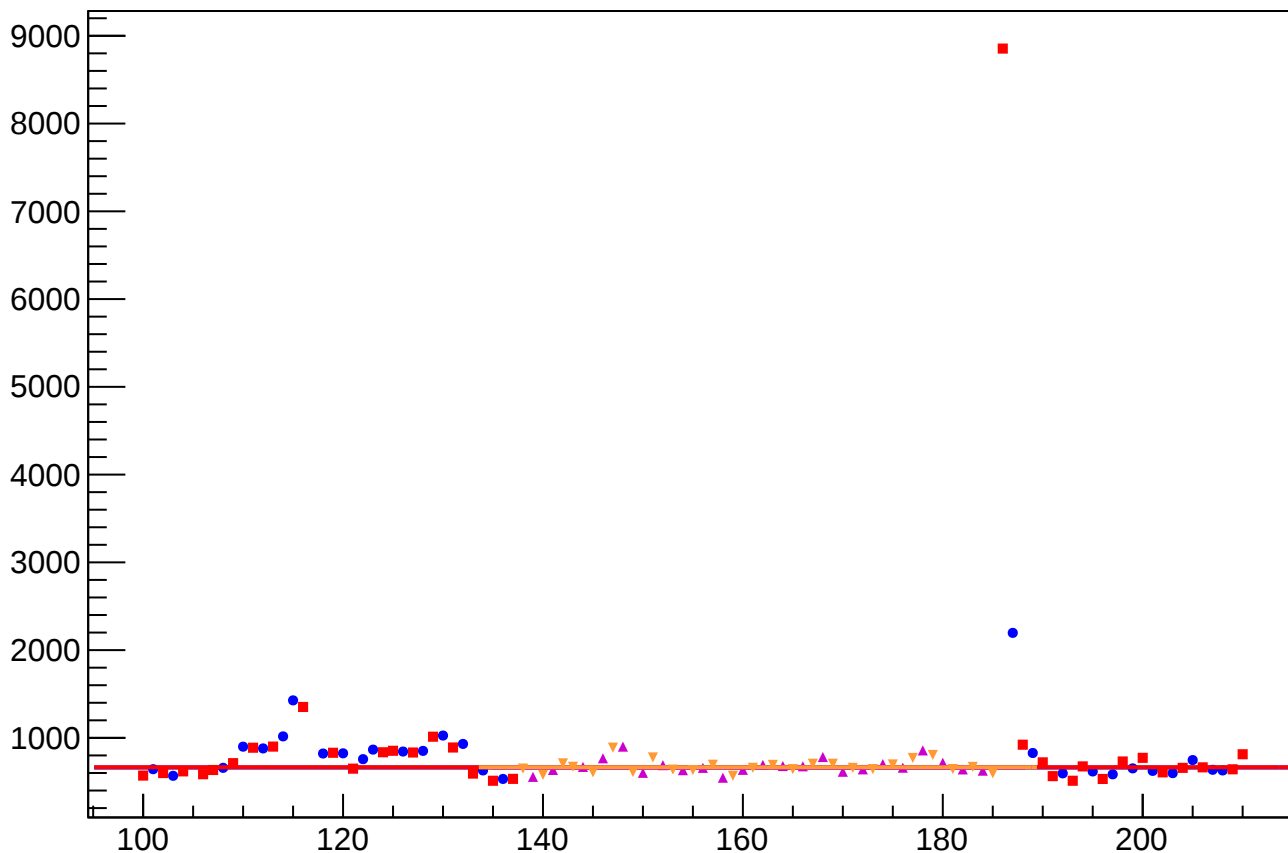
Right: 127.174 ± 122.915 $\chi^2/\text{NDF}: 64.0/60$

In: -13.182 ± 119.025 $\chi^2/\text{NDF}: 66.0/50$

Out: -90.028 ± 114.668 $\chi^2/\text{NDF}: 60.4/57$

All: -53.037 ± 82.580 $\chi^2/\text{NDF}: 126.6/108$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 662.364 $\pm$ 0.126 χ^2 /NDF: 984975.6/27

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 665.065 $\pm$ 0.120 χ^2 /NDF: 1777531.8/32

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

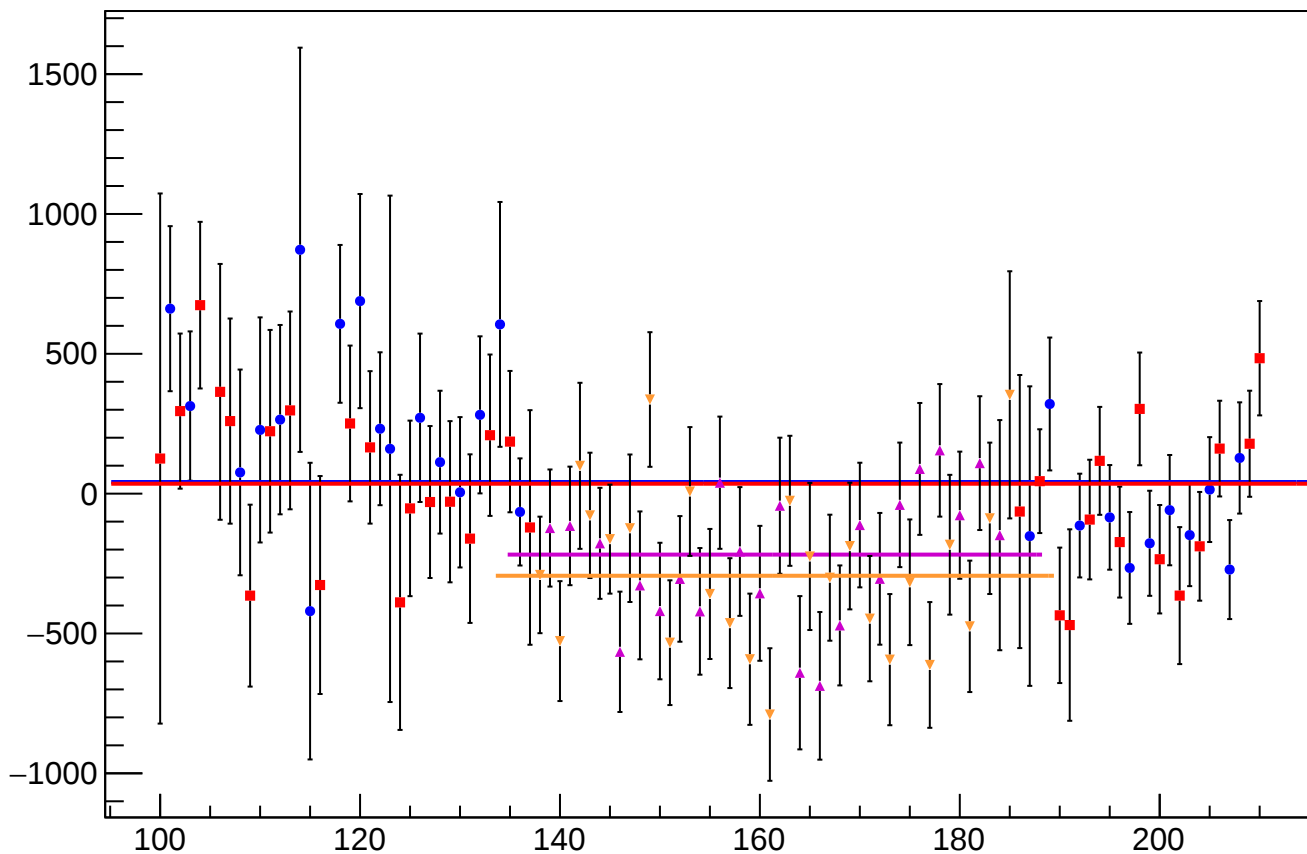
Right: 663.788 $\pm$ 0.087 χ^2 /NDF: 2762748.1/60

In: 661.544 $\pm$ 0.084 χ^2 /NDF: 1434231.4/50

Out: 664.907 $\pm$ 0.081 χ^2 /NDF: 2134588.9/57

All: 663.288 $\pm$ 0.058 χ^2 /NDF: 3569648.3/108

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

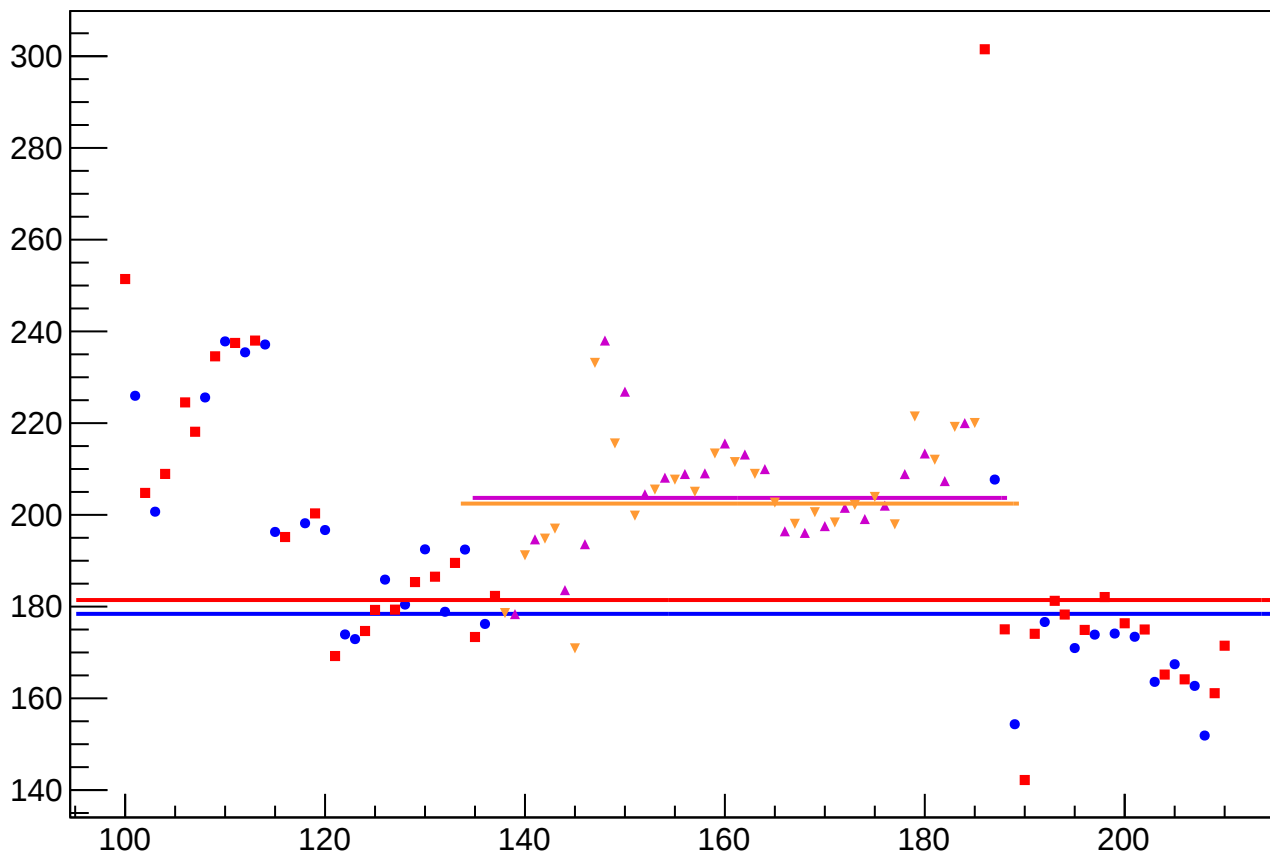


Right In: 41.582 ± 47.340 $\chi^2/\text{NDF}: 30.0/27$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 35.476 ± 45.004 $\chi^2/\text{NDF}: 34.0/32$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 38.375 ± 32.617 $\chi^2/\text{NDF}: 64.0/60$
 In: -84.201 ± 33.985 $\chi^2/\text{NDF}: 65.9/50$
 Out: -121.214 ± 32.572 $\chi^2/\text{NDF}: 89.8/57$

All: -103.493 ± 23.516 $\chi^2/\text{NDF}: 156.3/108$

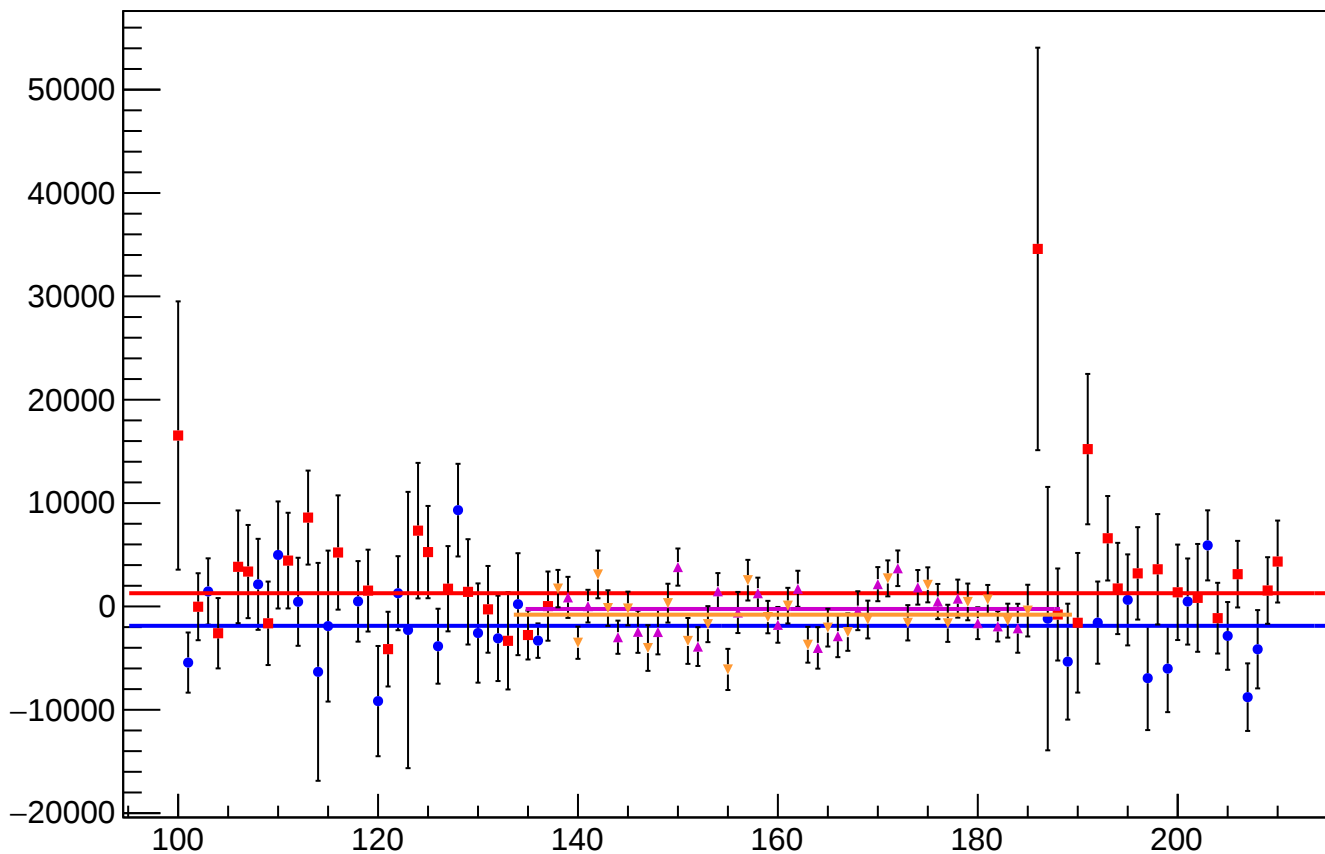
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 178.417 $\pm$ 0.033 χ^2 /NDF: 343278.4/27
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 181.433 $\pm$ 0.032 χ^2 /NDF: 497554.5/32
 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: 180.001 $\pm$ 0.023 χ^2 /NDF: 845095.8/60
 In: 190.669 $\pm$ 0.024 χ^2 /NDF:755905.9/50
 Out: 191.444 $\pm$ 0.023 χ^2 /NDF:864012.4/57
 All: 191.073 $\pm$ 0.017 χ^2 /NDF: 1620460.7/108

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1875.100 ± 735.084 $\chi^2/\text{NDF}: 29.4/27$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1278.838 ± 734.066 $\chi^2/\text{NDF}: 25.9/32$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

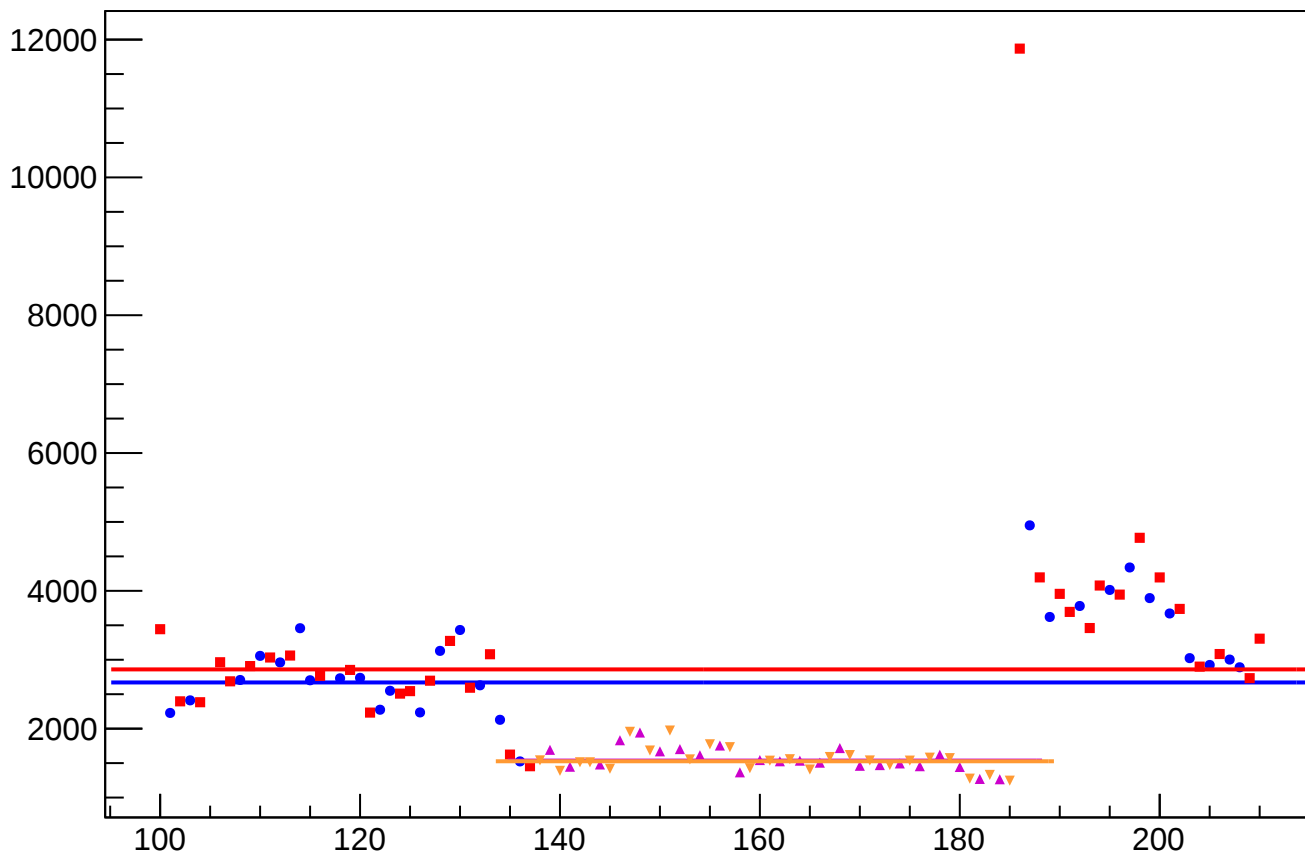
Right: -295.946 ± 519.423 $\chi^2/\text{NDF}: 64.5/60$

In: -574.374 ± 330.385 $\chi^2/\text{NDF}: 69.0/50$

Out: -398.025 ± 321.665 $\chi^2/\text{NDF}: 68.1/57$

All: -483.841 ± 230.473 $\chi^2/\text{NDF}: 137.3/108$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2670.503+/-0.520 χ^2/NDF : 2216090.4/27

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2859.964+/-0.519 χ^2/NDF : 2615907.5/32

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

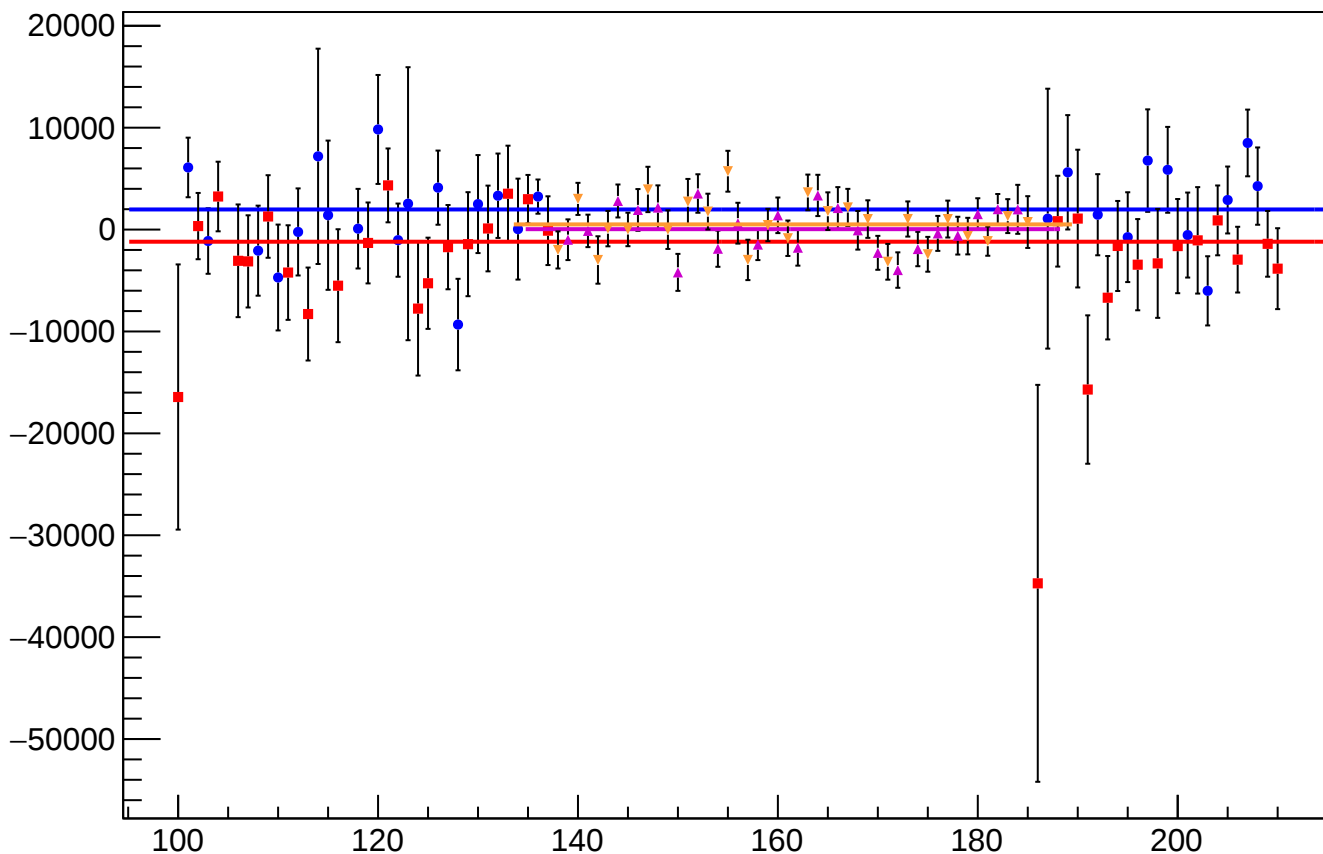
Right: 2765.365+/-0.367 χ^2/NDF : 4898519.5/60

In: 1765.607+/-0.234 χ^2/NDF : 6364461.4/50

Out: 1782.717+/-0.227 χ^2/NDF : 8341531.8/57

All: 1774.391+/-0.163 χ^2/NDF : 14708746.8/107

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1974.221+/-737.520 χ^2/NDF : 29.4/27

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1191.320+/-736.270 χ^2/NDF : 26.4/32

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

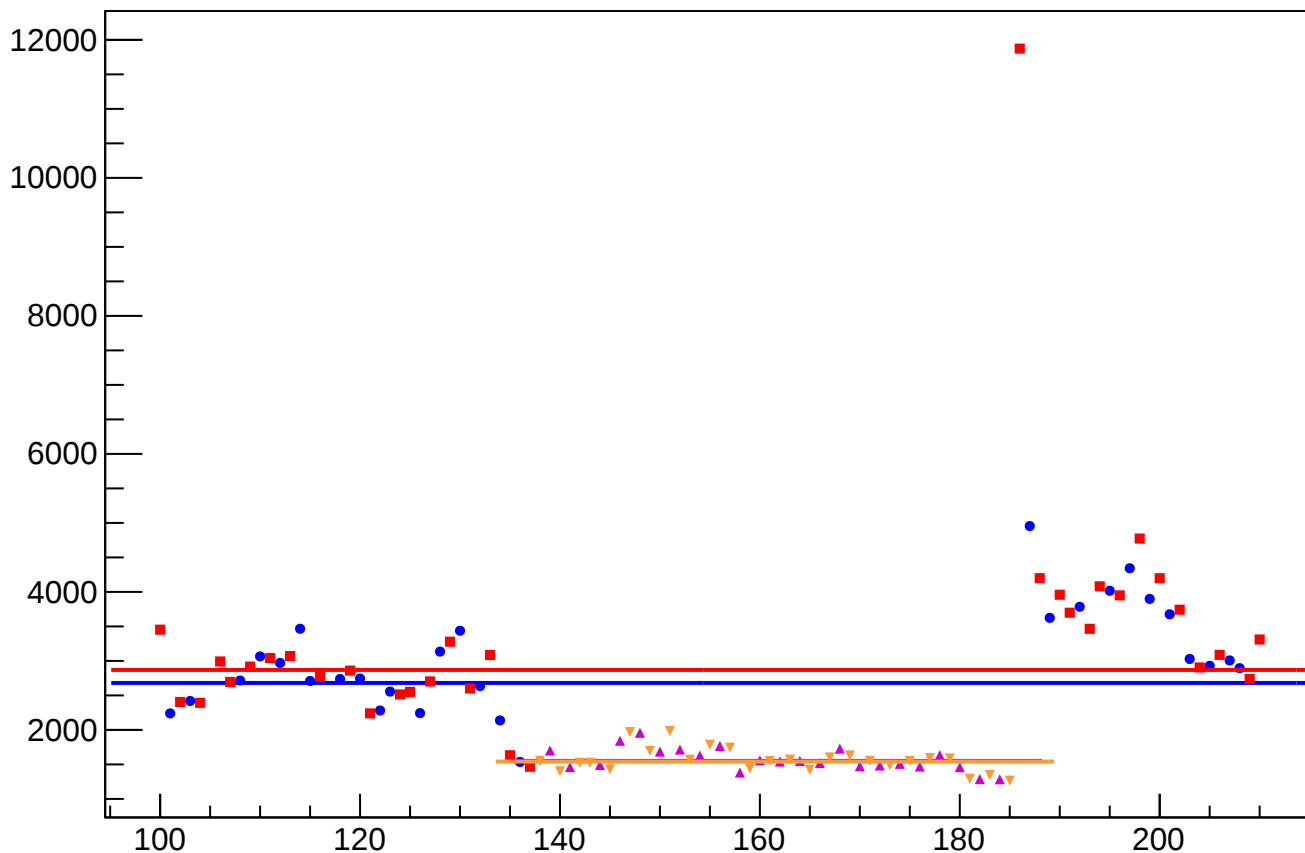
Right: 388.765+/-521.063 χ^2/NDF : 65.1/60

In: 434.471+/-333.038 χ^2/NDF : 68.5/50

Out: 178.385+/-324.260 χ^2/NDF : 66.1/57

All: 303.009+/-232.328 χ^2/NDF : 134.9/108

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2680.990+/-0.522 χ^2/NDF : 2185424.9/27

Left Out: 1541.258+/-0.255 χ^2/NDF : 382045.4/24

Right Out: 2869.540+/-0.521 χ^2/NDF : 2590381.4/32

Left In: 1551.063+/-0.264 χ^2/NDF : 338898.9/22

Left: 1546.000+/-0.184 χ^2/NDF : 721657.1/47

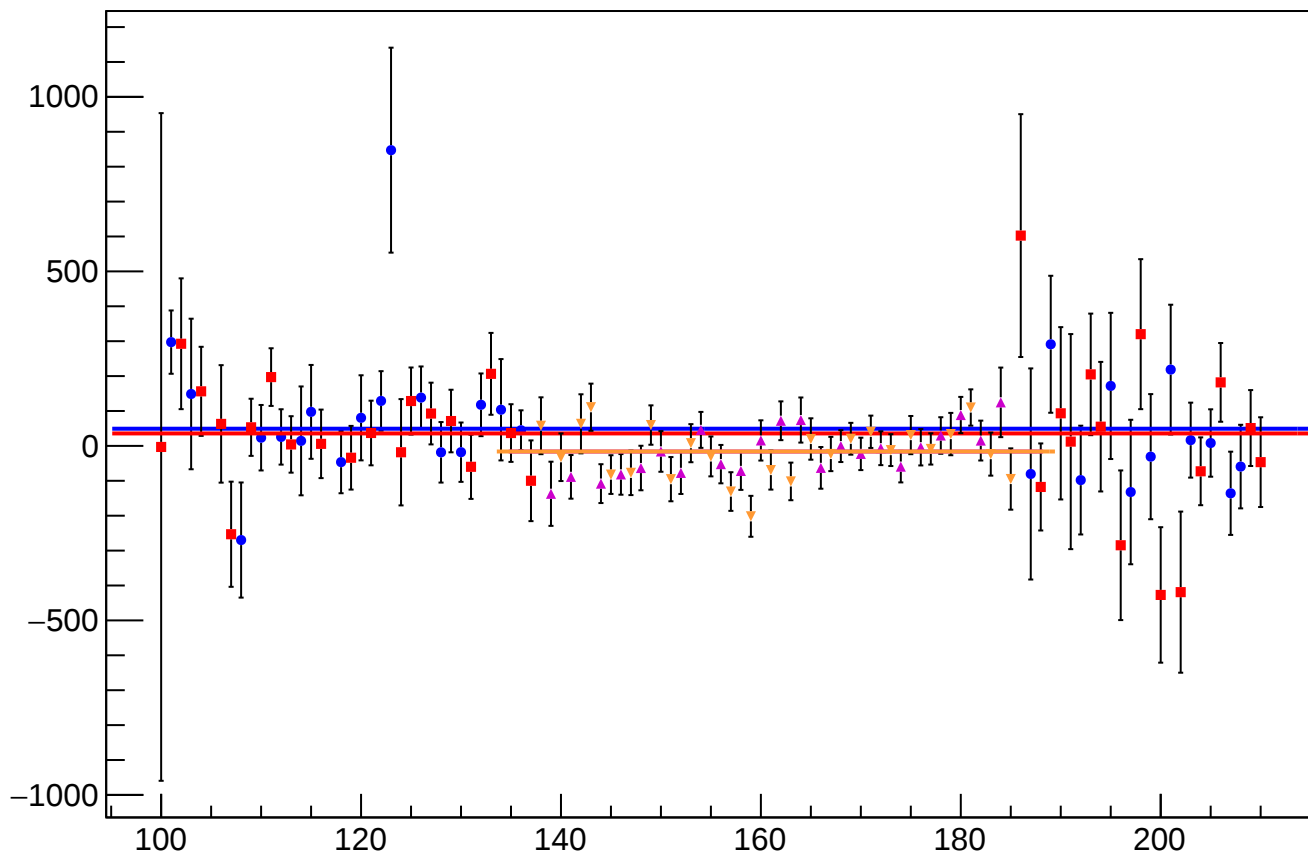
Right: 2775.425+/-0.368 χ^2/NDF : 4841276.0/60

In: 1781.467+/-0.235 χ^2/NDF : 6261510.5/50

Out: 1798.892+/-0.229 χ^2/NDF : 8219209.2/57

All: 1790.412+/-0.164 χ^2/NDF : 14483530.1/113

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 49.213 ± 20.921 $\chi^2/\text{NDF}: 32.5/27$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 35.712 ± 20.605 $\chi^2/\text{NDF}: 39.5/32$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

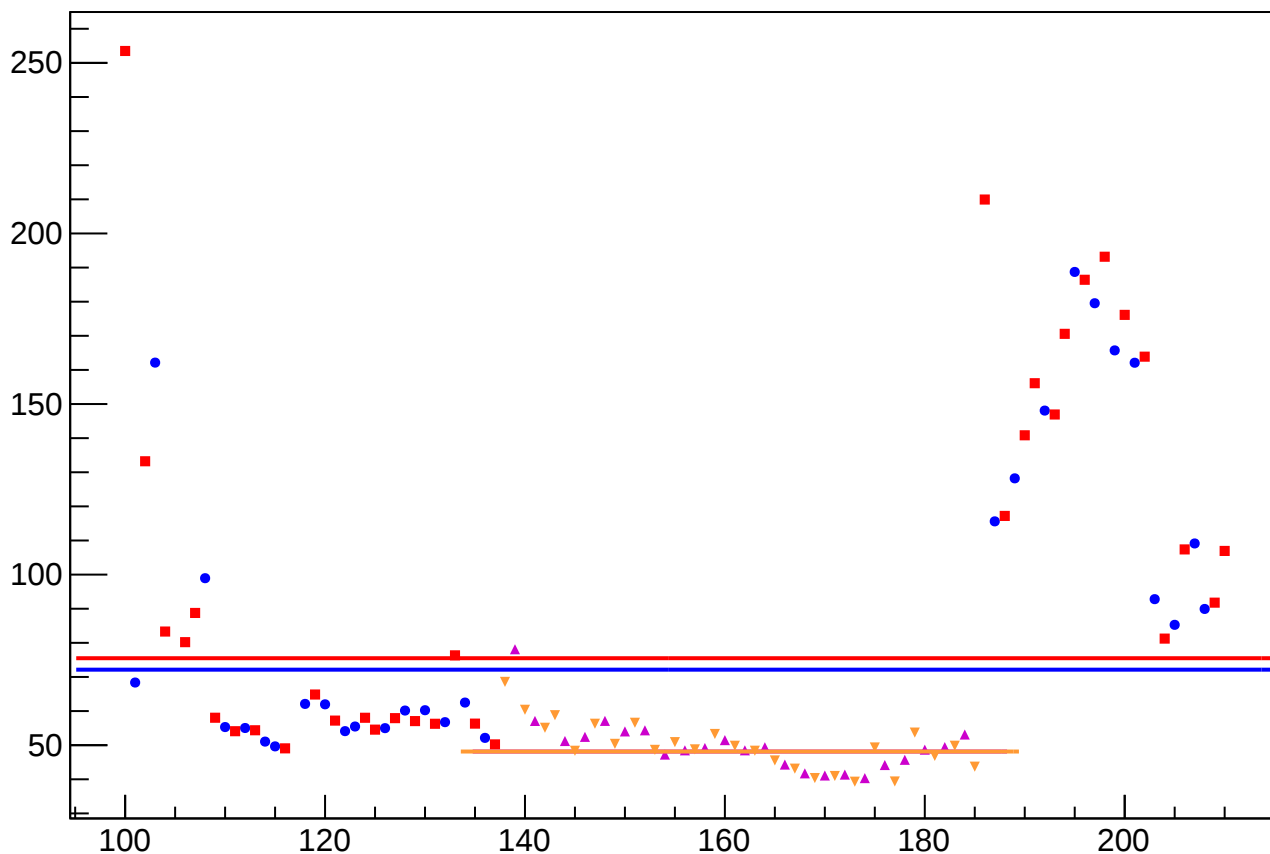
Right: 42.359 ± 14.680 $\chi^2/\text{NDF}: 72.1/60$

In: -0.689 ± 10.178 $\chi^2/\text{NDF}: 65.1/50$

Out: -4.016 ± 9.935 $\chi^2/\text{NDF}: 84.0/57$

All: -2.393 ± 7.109 $\chi^2/\text{NDF}: 149.2/108$

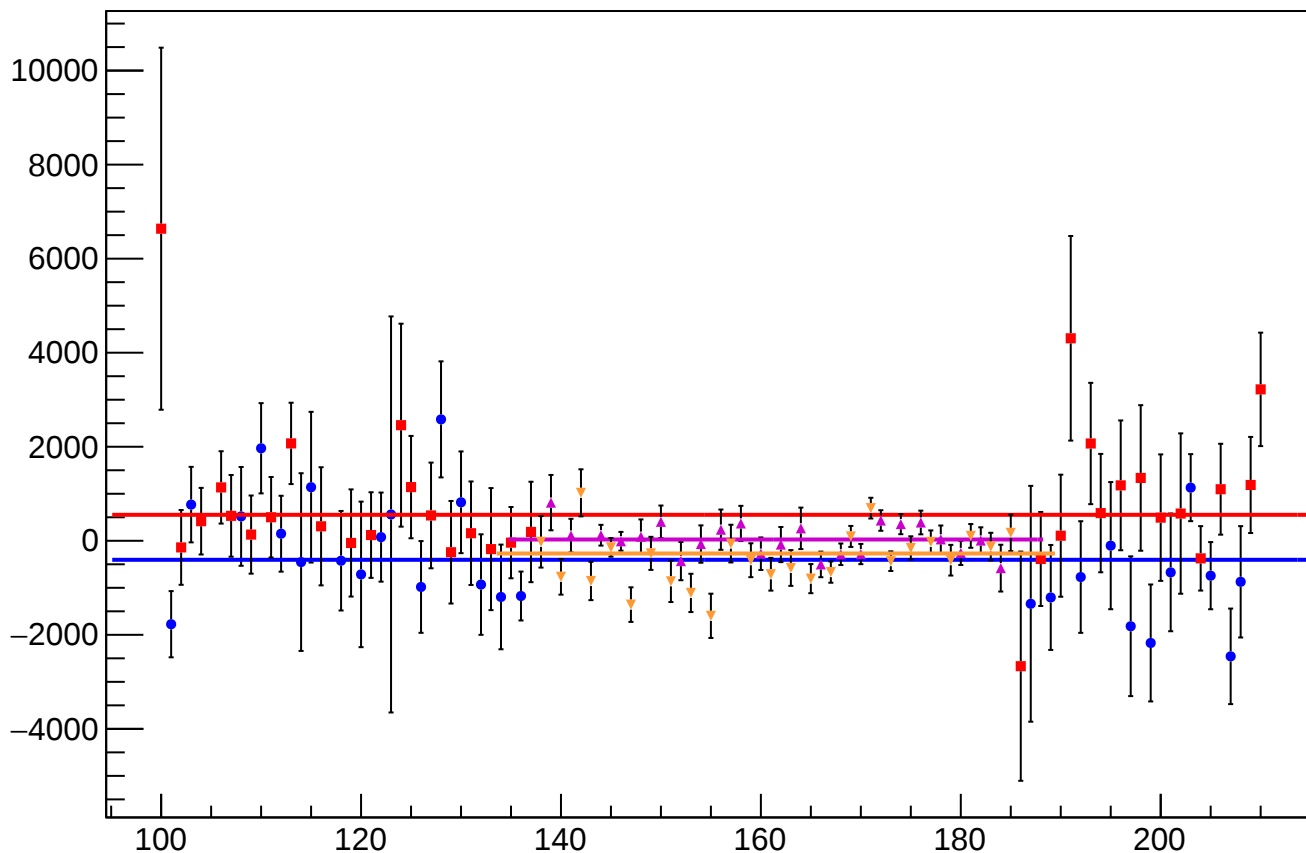
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.136 $\pm$ 0.015 χ^2 /NDF: 4452803.6/27
 Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24
 Right Out: 75.493 $\pm$ 0.015 χ^2 /NDF: 5429354.1/32
 Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47
 Right: 73.840 $\pm$ 0.010 χ^2 /NDF: 9908294.8/60
 In: 53.819 $\pm$ 0.007 χ^2 /NDF: 7036323.5/50
 Out: 54.499 $\pm$ 0.007 χ^2 /NDF: 8789636.9/57
 All: 54.167 $\pm$ 0.005 χ^2 /NDF: 15830544.7/108

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -404.404 ± 189.804 χ^2/NDF : 37.9/27

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 552.296 ± 182.465 χ^2/NDF : 25.5/32

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

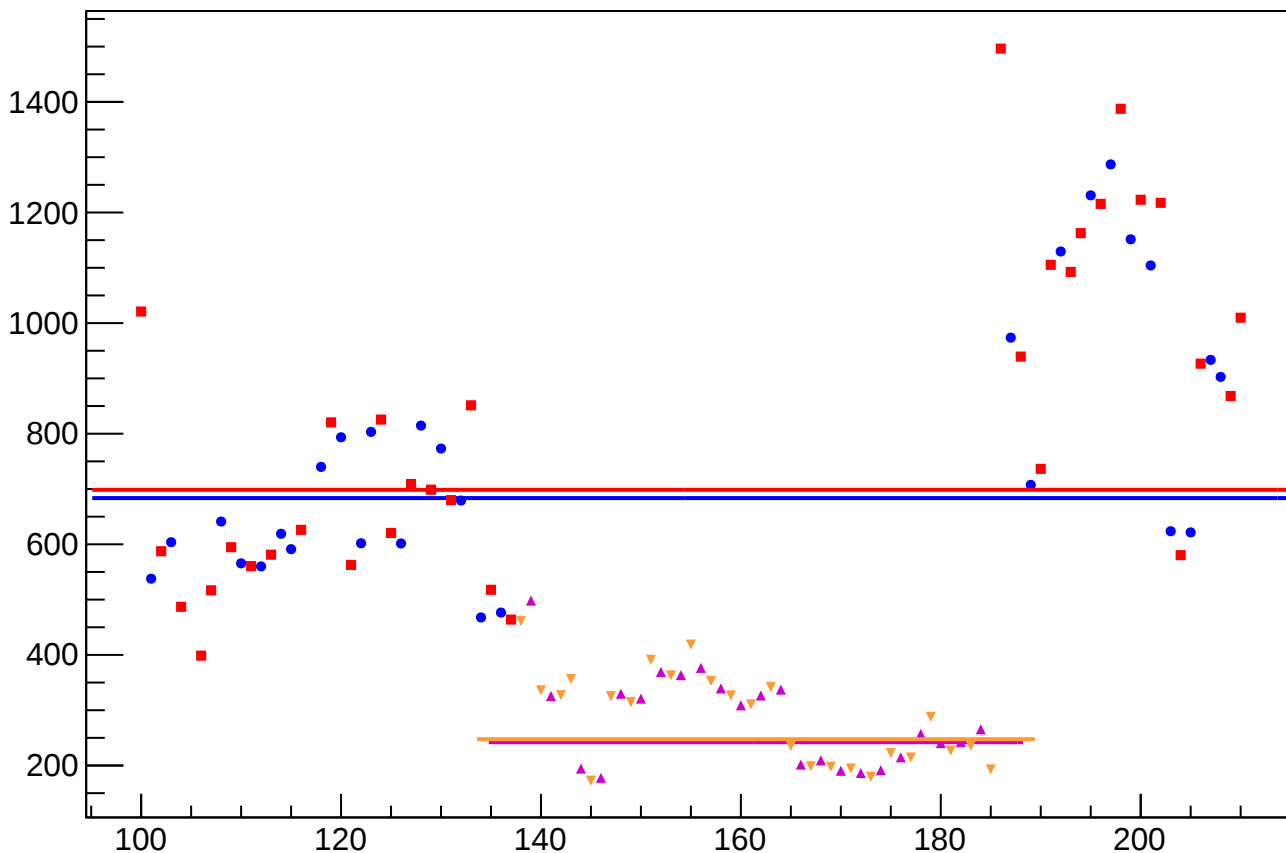
Right: 92.799 ± 131.540 χ^2/NDF : 76.6/60

In: -12.459 ± 57.582 χ^2/NDF : 67.6/50

Out: -189.526 ± 57.150 χ^2/NDF : 113.9/57

All: -101.660 ± 40.563 χ^2/NDF : 186.3/108

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 683.583 $\pm$ 0.134 χ^2 /NDF: 2365255.8/27

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF:2780931.0/24

Right Out: 698.545 $\pm$ 0.129 χ^2 /NDF: 3458701.1/32

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF:2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

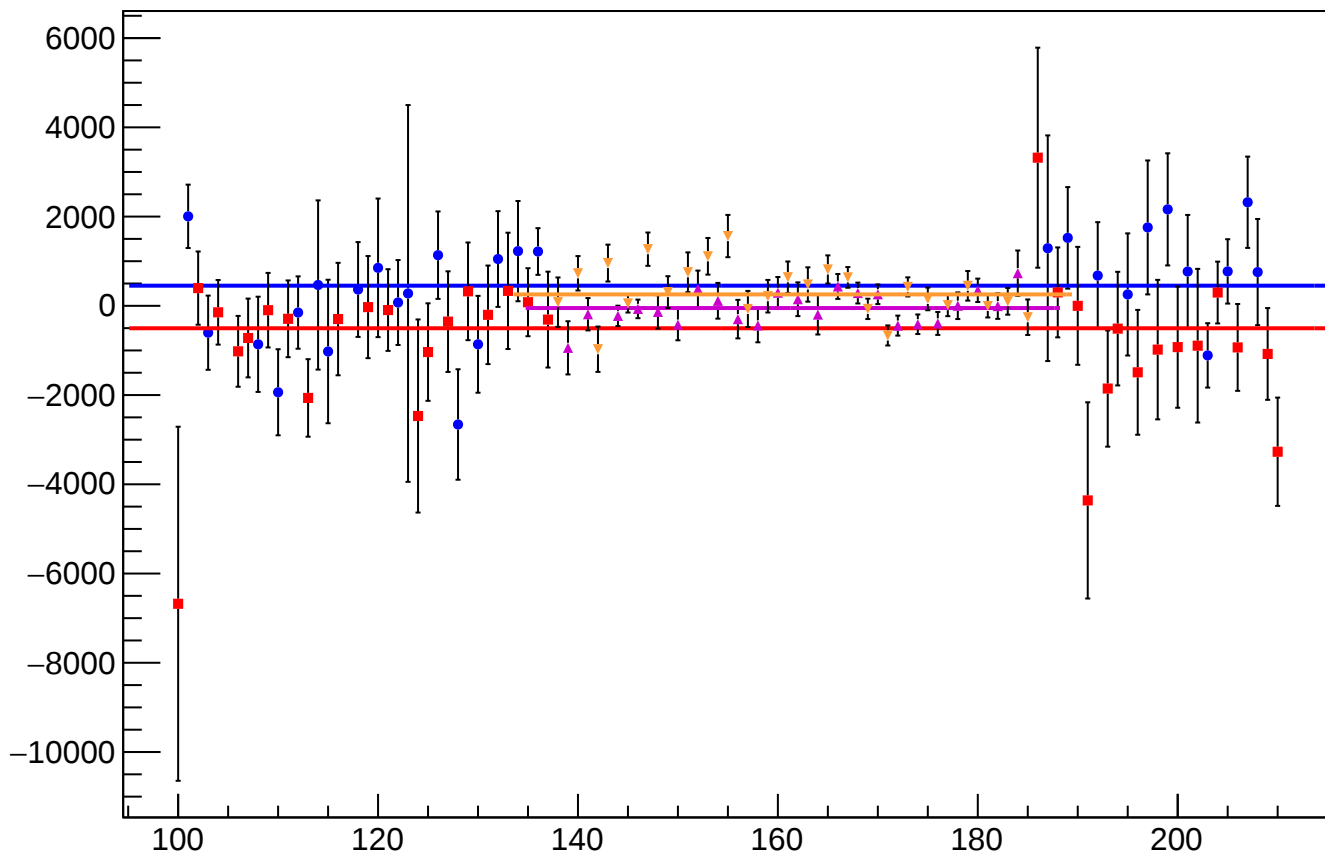
Right: 691.359 $\pm$ 0.093 χ^2 /NDF: 5830415.3/60

In: 282.748 $\pm$ 0.041 χ^2 /NDF:14655201.1/50

Out: 291.811 $\pm$ 0.040 χ^2 /NDF:17258378.5/57

All: 287.314 $\pm$ 0.029 χ^2 /NDF: 31938535.6/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 451.367 $\pm$ 191.560 χ^2 /NDF: 38.9/27

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -502.901 $\pm$ 184.453 χ^2 /NDF: 26.2/32

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

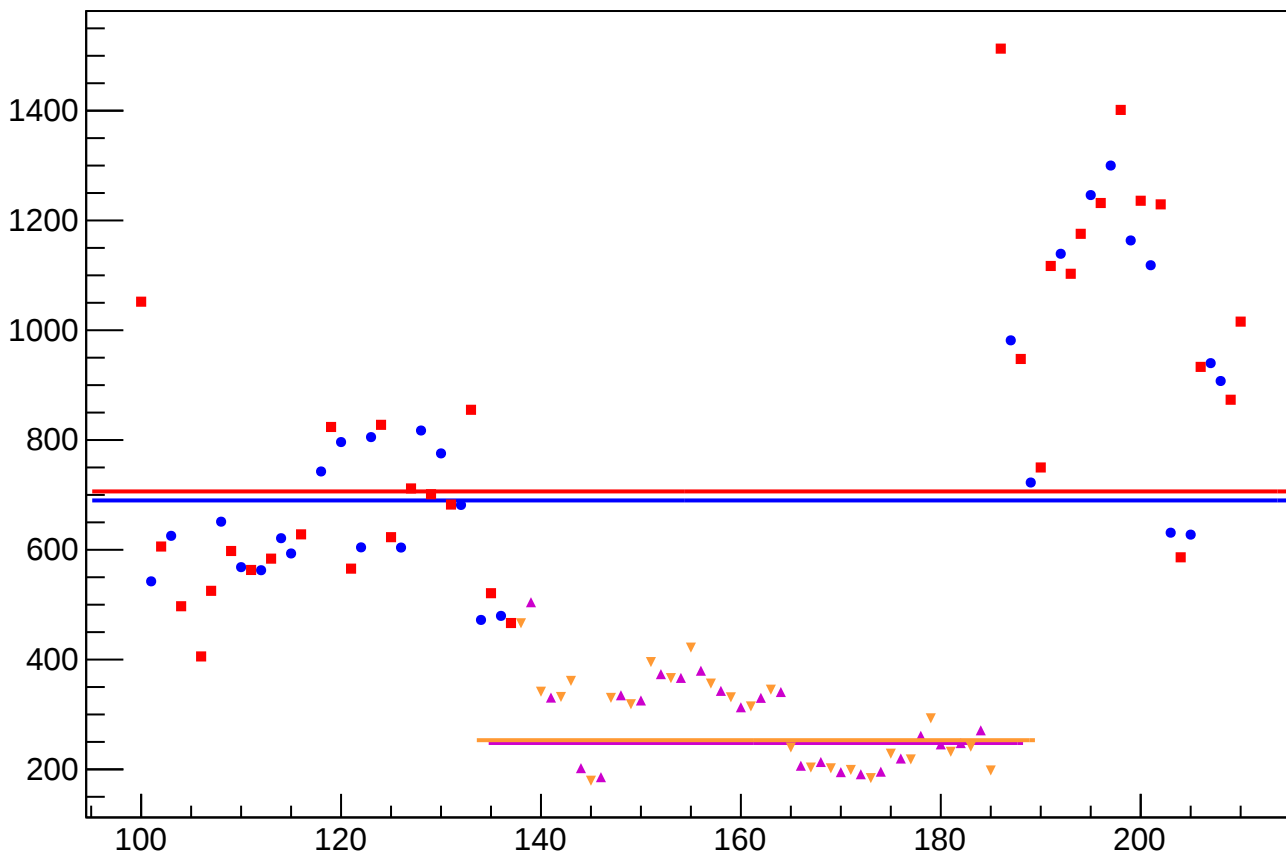
Right: -43.796 $\pm$ 132.870 χ^2 /NDF: 77.9/60

In: -2.611 $\pm$ 58.799 χ^2 /NDF:72.6/50

Out: 180.252 $\pm$ 58.273 χ^2 /NDF:105.0/57

All: 89.642 $\pm$ 41.390 χ^2 /NDF: 182.5/108

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 689.917 ± 0.135 $\chi^2/\text{NDF}: 2368820.5/27$

Left Out: 253.137 ± 0.043 $\chi^2/\text{NDF}: 2665975.8/24$

Right Out: 706.339 ± 0.130 $\chi^2/\text{NDF}: 3426104.5/32$

Left In: 248.069 ± 0.044 $\chi^2/\text{NDF}: 2343295.0/22$

Left: 250.618 ± 0.031 $\chi^2/\text{NDF}: 5016040.5/47$

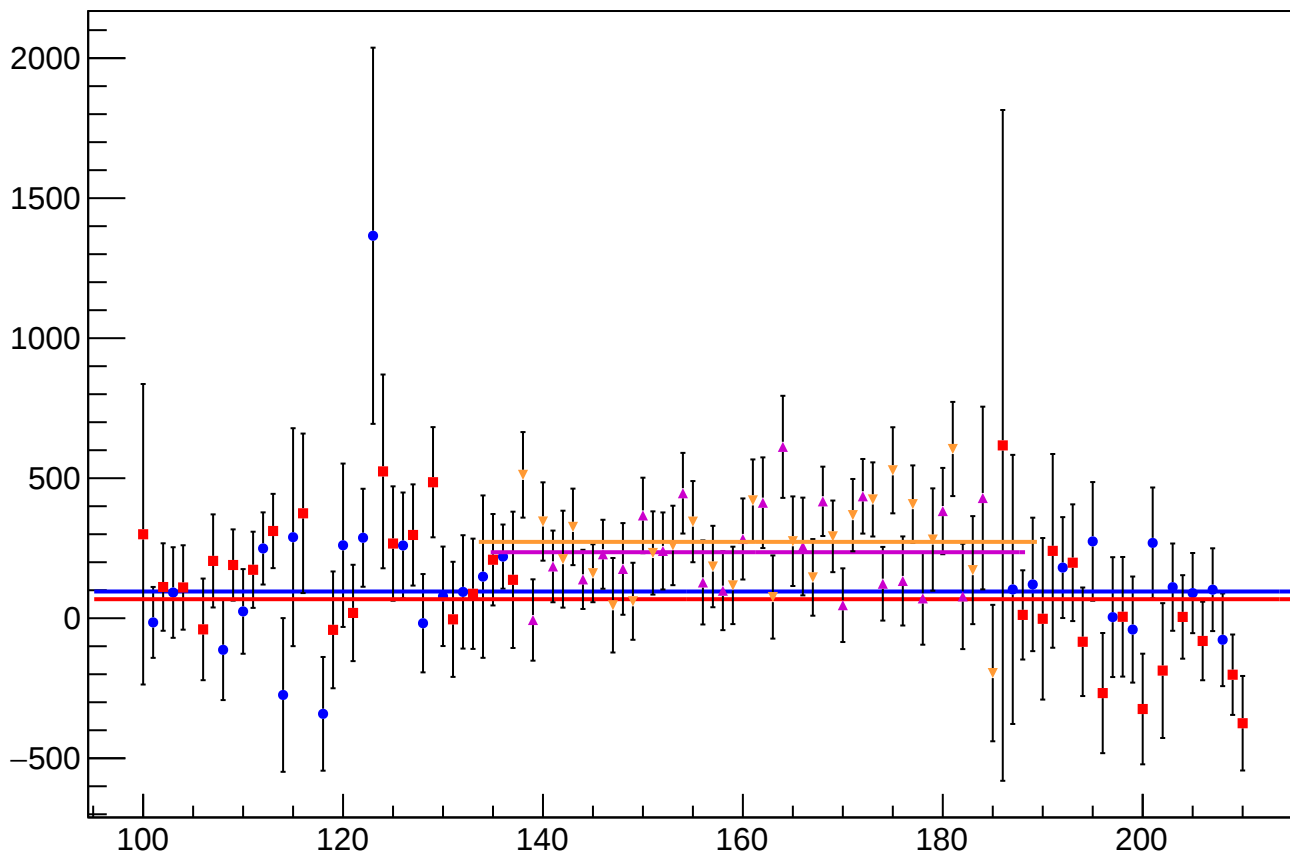
Right: 698.438 ± 0.094 $\chi^2/\text{NDF}: 5802552.4/60$

In: 289.698 ± 0.042 $\chi^2/\text{NDF}: 14350200.9/50$

Out: 298.369 ± 0.041 $\chi^2/\text{NDF}: 16960761.0/57$

All: 294.073 ± 0.029 $\chi^2/\text{NDF}: 31332907.7/10$

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 95.495 $\pm$ 34.228 χ^2 /NDF: 21.5/27

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 67.986 $\pm$ 32.179 χ^2 /NDF: 38.5/32

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

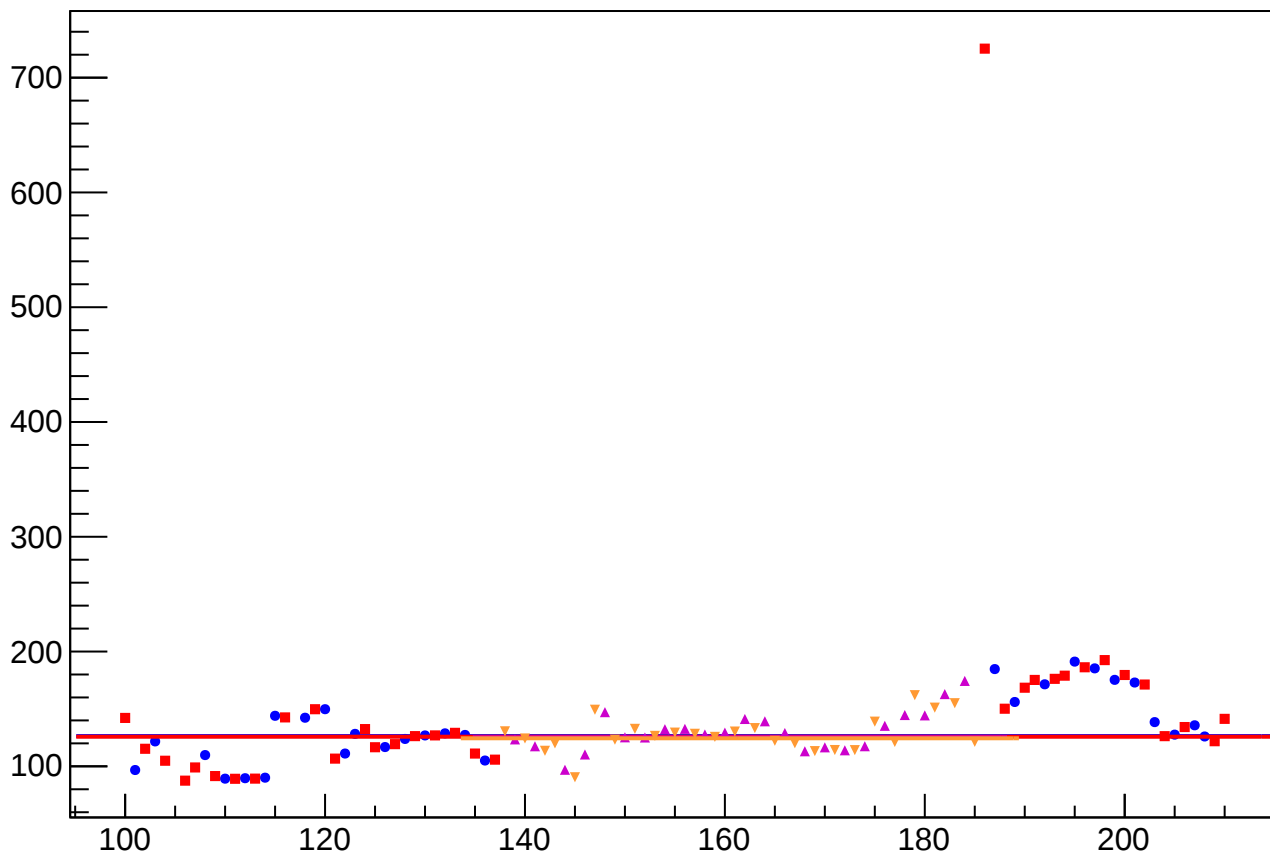
Right: 80.893 $\pm$ 23.445 χ^2 /NDF: 60.3/60

In: 174.314 $\pm$ 22.659 χ^2 /NDF:55.5/50

Out: 180.174 $\pm$ 21.633 χ^2 /NDF:88.1/57

All: 177.380 $\pm$ 15.647 χ^2 /NDF: 143.7/108

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.334 $\pm$ 0.024 χ^2 /NDF: 1355683.2/27

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.804 $\pm$ 0.023 χ^2 /NDF: 2228500.6/32

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

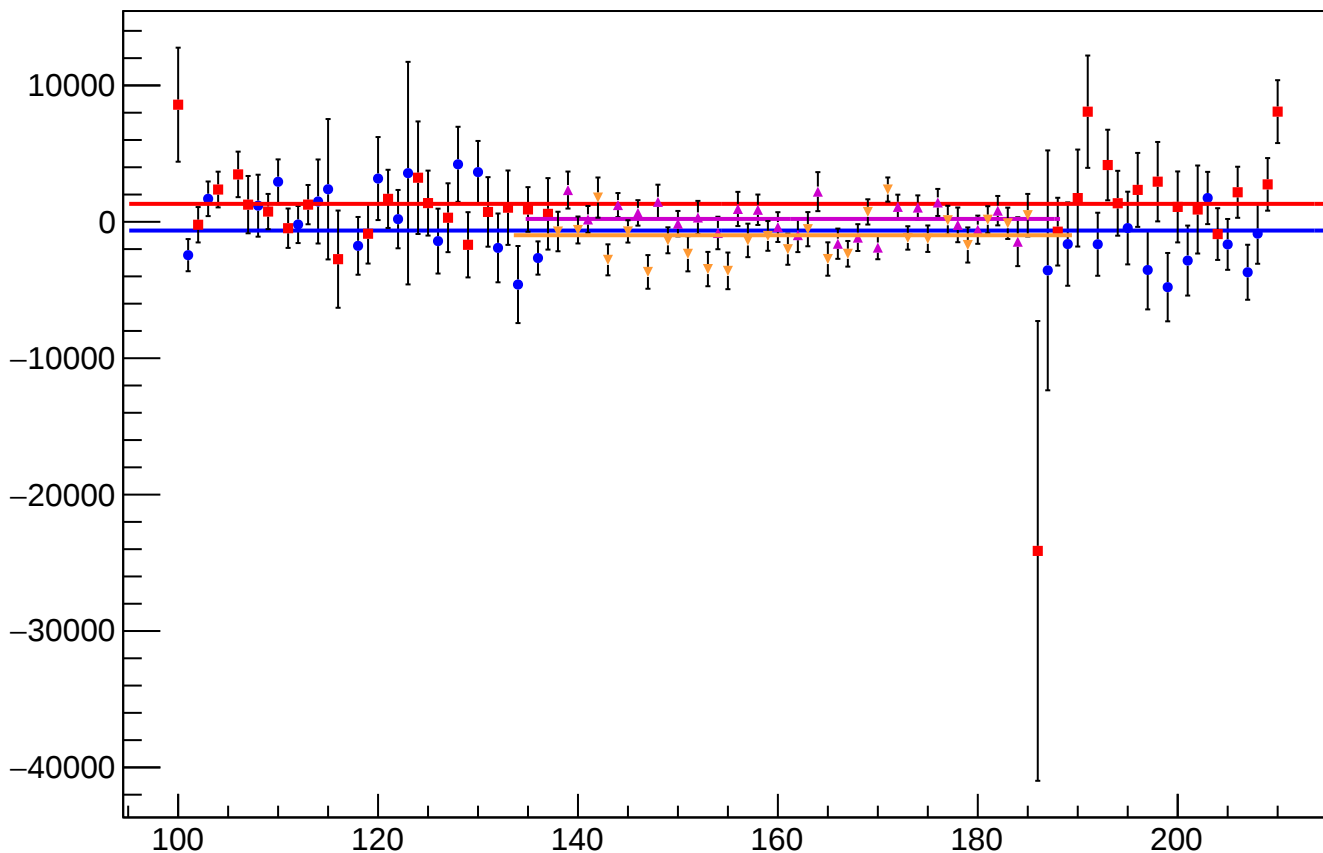
Right: 126.053 $\pm$ 0.017 χ^2 /NDF: 3584439.2/60

In: 125.700 $\pm$ 0.016 χ^2 /NDF: 1858294.6/50

Out: 125.050 $\pm$ 0.015 χ^2 /NDF: 2770233.7/57

All: 125.360 $\pm$ 0.011 χ^2 /NDF: 4629389.1/108

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -639.769 ± 392.222 $\chi^2/\text{NDF}: 35.0/27$

Left Out: -982.839 ± 218.021 $\chi^2/\text{NDF}: 47.2/24$

Right Out: 1317.150 ± 367.278 $\chi^2/\text{NDF}: 31.0/32$

Left In: 211.420 ± 223.296 $\chi^2/\text{NDF}: 25.7/22$

Left: -399.983 ± 155.996 $\chi^2/\text{NDF}: 87.5/47$

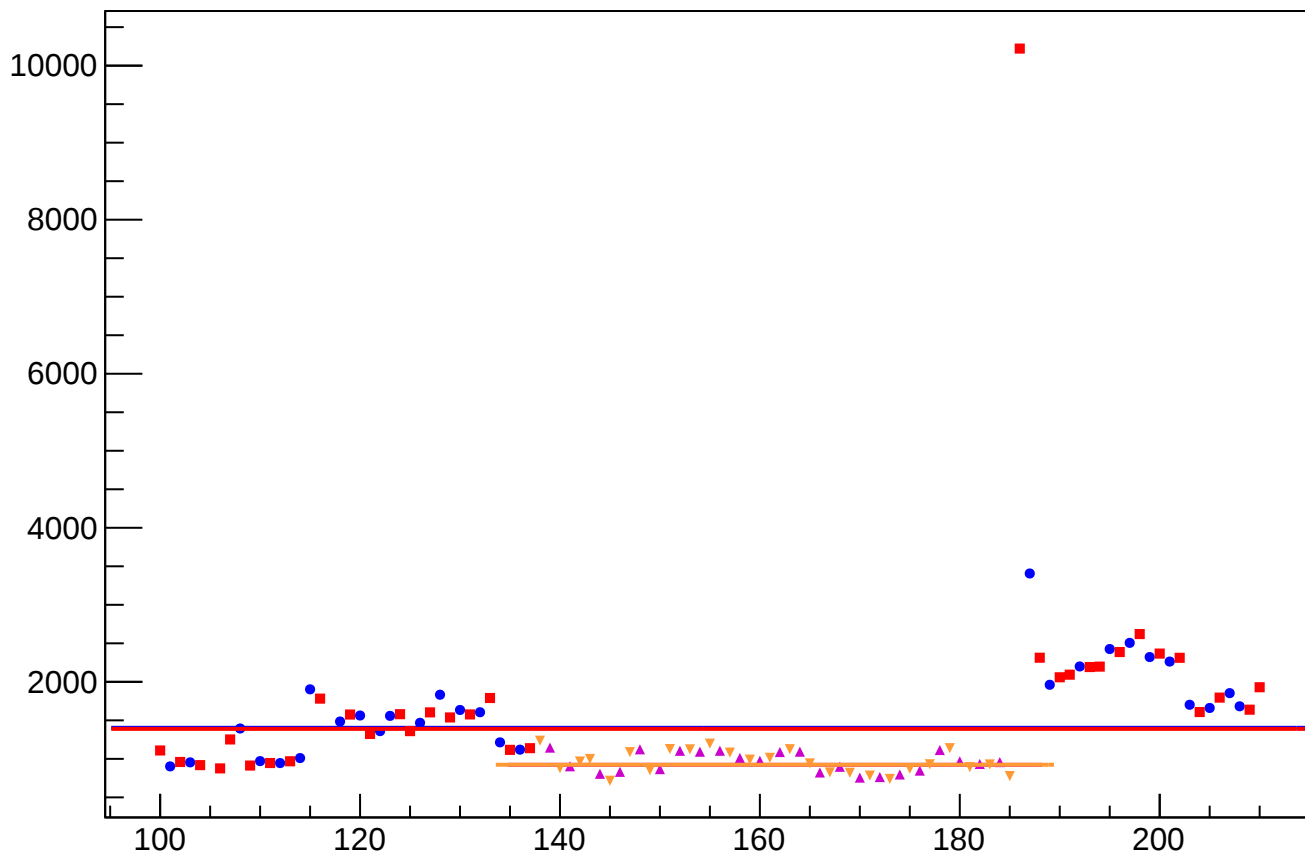
Right: 402.890 ± 268.089 $\chi^2/\text{NDF}: 79.3/60$

In: 3.067 ± 194.052 $\chi^2/\text{NDF}: 64.2/50$

Out: -383.552 ± 187.478 $\chi^2/\text{NDF}: 107.2/57$

All: -196.902 ± 134.831 $\chi^2/\text{NDF}: 173.5/108$

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1402.970+/-0.277 χ^2/NDF : 2944805.4/27

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1389.376+/-0.260 χ^2/NDF : 4228135.1/32

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

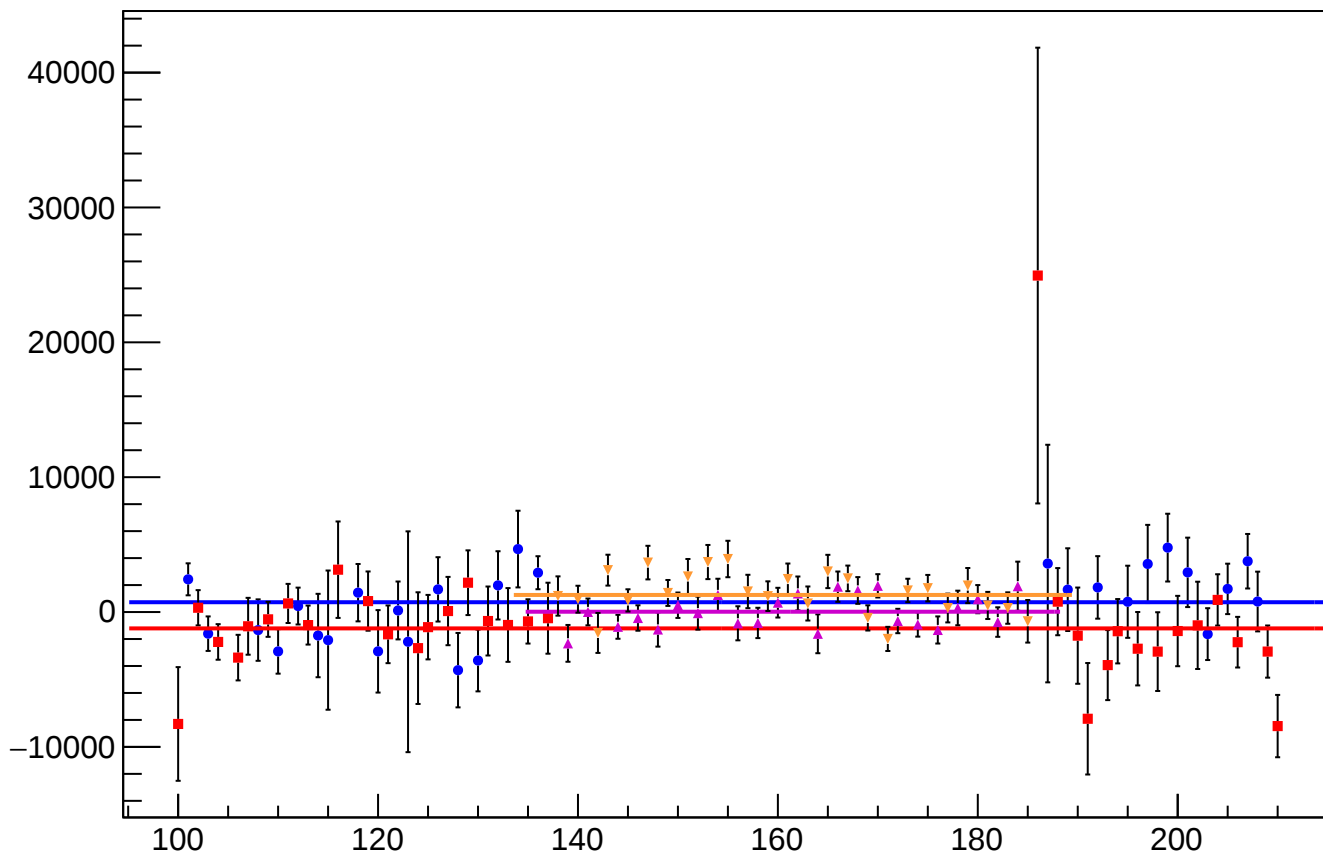
Right: 1395.727+/-0.190 χ^2/NDF : 7174220.6/60

In: 1039.916+/-0.137 χ^2/NDF : 5848515.7/50

Out: 1044.953+/-0.133 χ^2/NDF : 7449494.3/57

All: 1042.521+/-0.095 χ^2/NDF : 13298706.8/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 728.122+/-393.937 χ^2/NDF : 35.0/27

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -1212.903+/-369.024 χ^2/NDF : 32.9/32

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

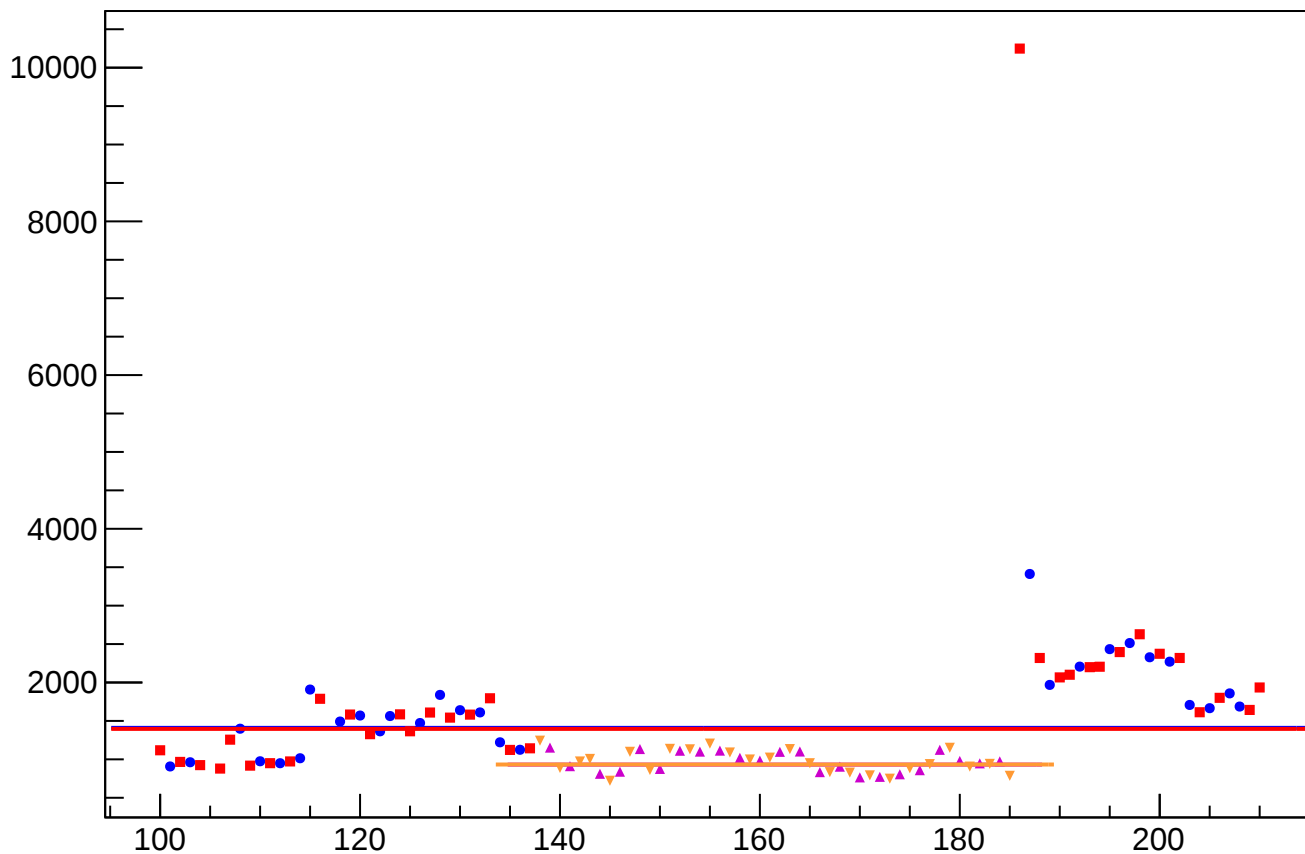
Right: -305.704+/-269.316 χ^2/NDF : 80.8/60

In: 197.374+/-195.698 χ^2/NDF :64.5/50

Out: 616.395+/-189.052 χ^2/NDF :111.2/57

All: 414.121+/-135.969 χ^2/NDF : 178.1/108

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1409.647+/-0.279 χ^2/NDF : 2926510.6/27

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1396.397+/-0.261 χ^2/NDF : 4203638.0/32

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

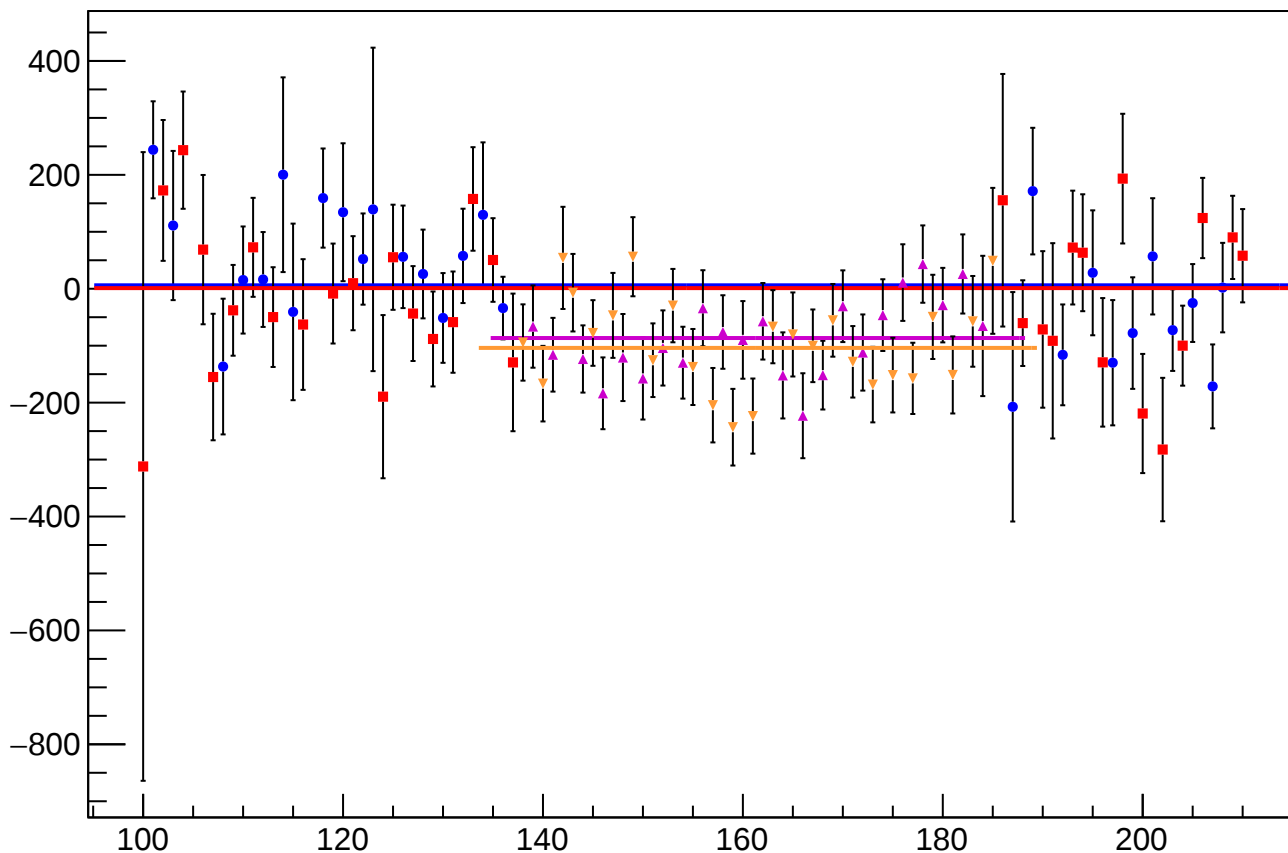
Right: 1402.589+/-0.190 χ^2/NDF : 7131353.7/60

In: 1049.494+/-0.138 χ^2/NDF : 5770320.7/50

Out: 1054.446+/-0.134 χ^2/NDF : 7361842.3/57

All: 1052.056+/-0.096 χ^2/NDF : 13132825.2/112

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 6.023 ± 17.384 $\chi^2/\text{NDF}: 33.8/27$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: 1.087 ± 16.761 $\chi^2/\text{NDF}: 43.6/32$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

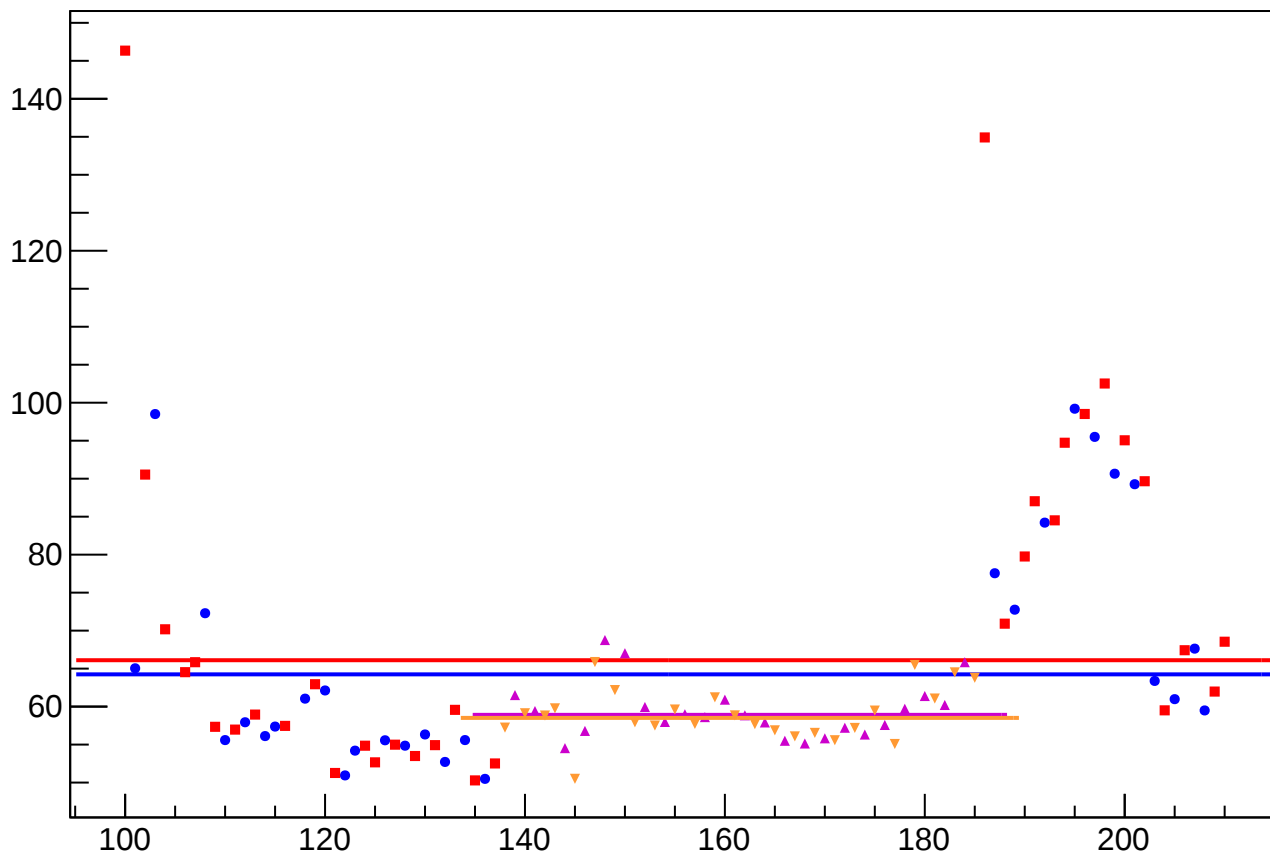
Right: 3.465 ± 12.066 $\chi^2/\text{NDF}: 77.4/60$

In: -49.747 ± 10.960 $\chi^2/\text{NDF}: 72.3/50$

Out: -62.065 ± 10.581 $\chi^2/\text{NDF}: 97.1/57$

All: -56.123 ± 7.612 $\chi^2/\text{NDF}: 170.1/108$

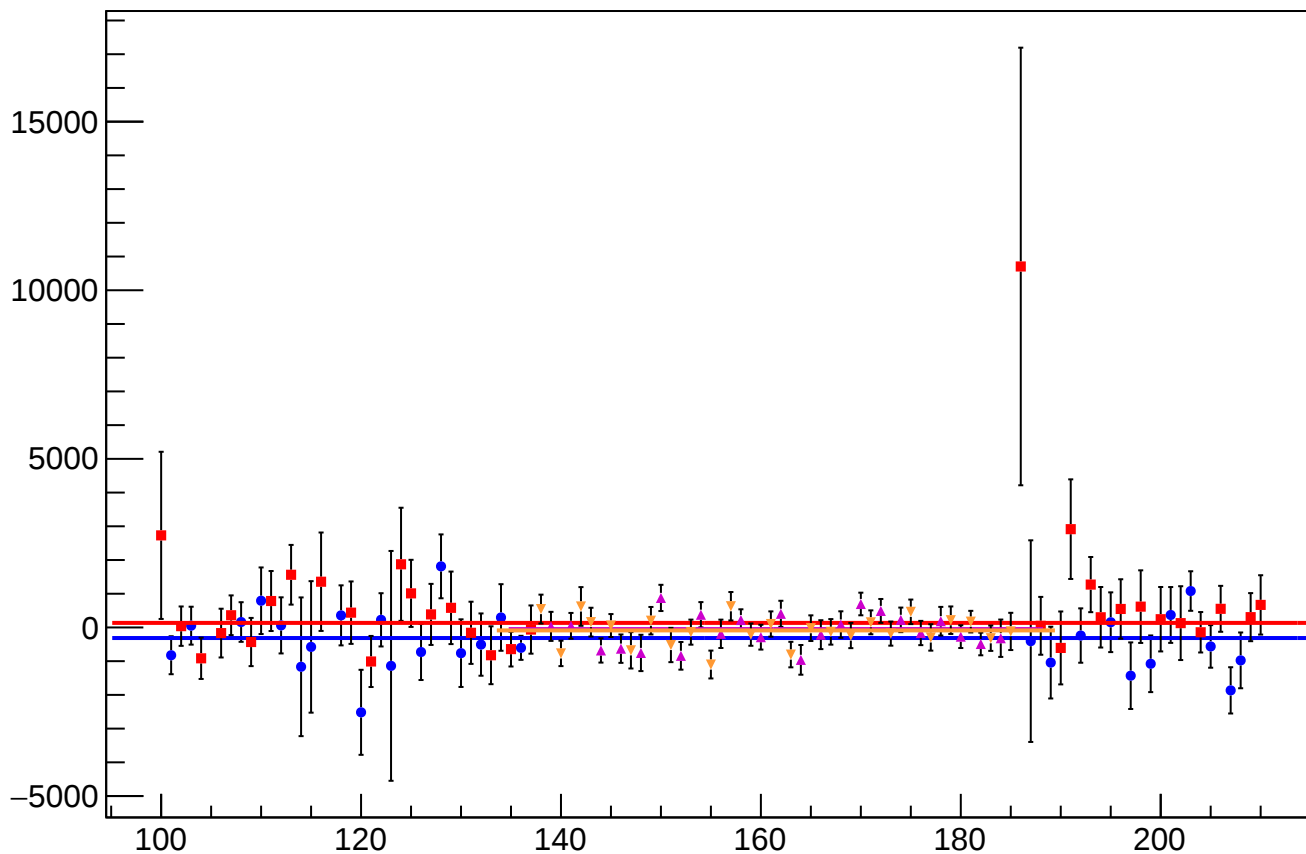
reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.244 ± 0.012 $\chi^2/\text{NDF}: 1253799.2/27$
 Left Out: 58.513 ± 0.010 $\chi^2/\text{NDF}: 123221.6/24$
 Right Out: 66.105 ± 0.012 $\chi^2/\text{NDF}: 1650765.1/32$
 Left In: 58.913 ± 0.010 $\chi^2/\text{NDF}: 109968.0/22$

Left: 58.706 ± 0.007 $\chi^2/\text{NDF}: 234021.7/47$
 Right: 65.208 ± 0.009 $\chi^2/\text{NDF}: 2916435.8/60$
 In: 61.032 ± 0.008 $\chi^2/\text{NDF}: 1477084.0/50$
 Out: 61.538 ± 0.007 $\chi^2/\text{NDF}: 2020788.9/57$
 All: 61.294 ± 0.005 $\chi^2/\text{NDF}: 3500076.3/108$

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -313.627 ± 147.245 χ^2/NDF : 29.4/27

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 135.144 ± 144.561 χ^2/NDF : 27.1/32

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

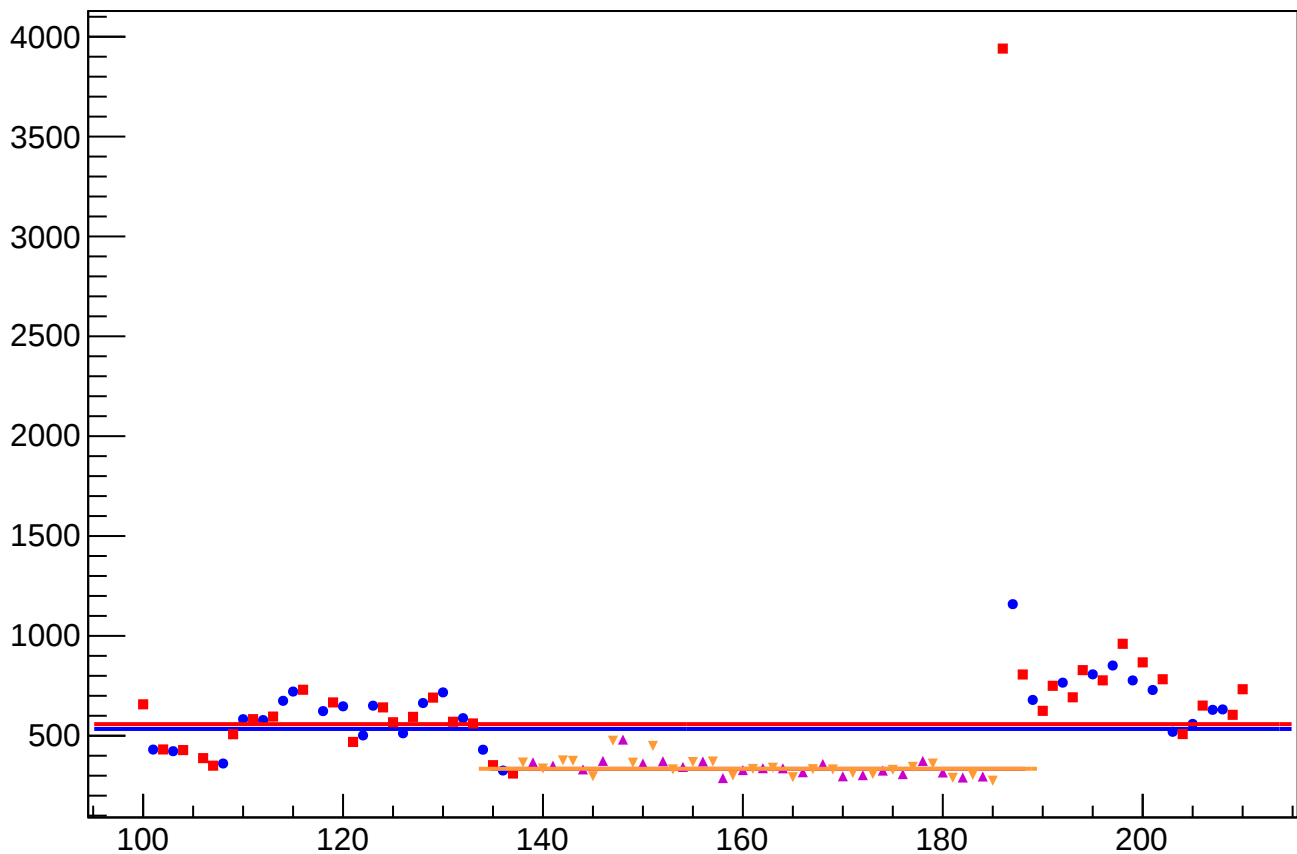
Right: -85.114 ± 103.156 χ^2/NDF : 61.3/60

In: -109.751 ± 70.666 χ^2/NDF : 67.2/50

Out: -36.710 ± 69.023 χ^2/NDF : 56.7/57

All: -72.372 ± 49.377 χ^2/NDF : 124.5/108

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 533.972 $\pm$ 0.104 χ^2 /NDF: 2254313.0/27

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 558.175 $\pm$ 0.102 χ^2 /NDF: 3066139.6/32

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

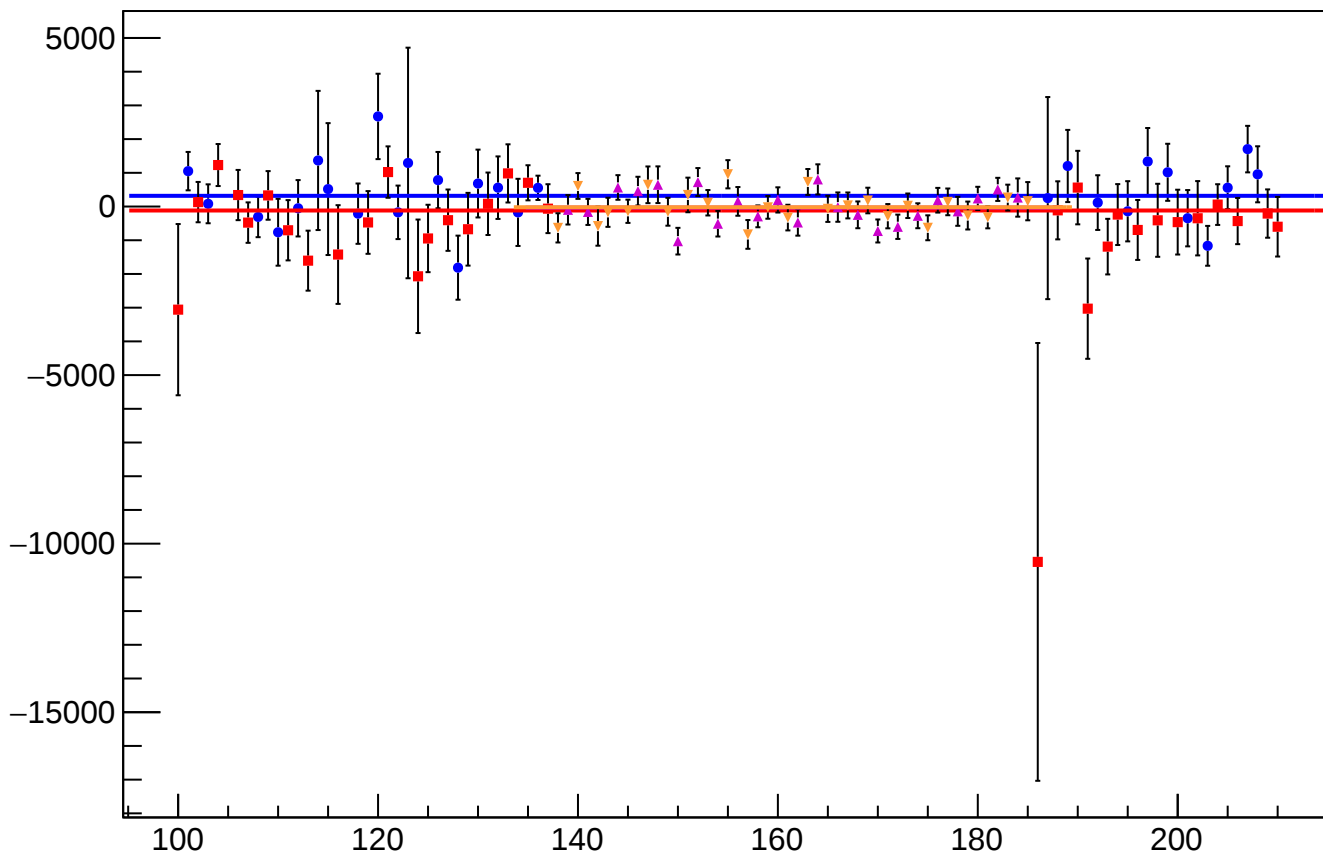
Right: 546.296 $\pm$ 0.073 χ^2 /NDF: 5347967.4/60

In: 380.171 $\pm$ 0.050 χ^2 /NDF: 5486565.7/50

Out: 385.685 $\pm$ 0.049 χ^2 /NDF: 7245826.0/57

All: 382.993 $\pm$ 0.035 χ^2 /NDF: 12738623.8/107

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 317.683+/-148.710 χ^2/NDF : 29.5/27

Left Out: -20.895+/-79.812 χ^2/NDF : 27.2/24

Right Out: -117.541+/-146.024 χ^2/NDF : 30.1/32

Left In: -31.800+/-81.839 χ^2/NDF : 34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

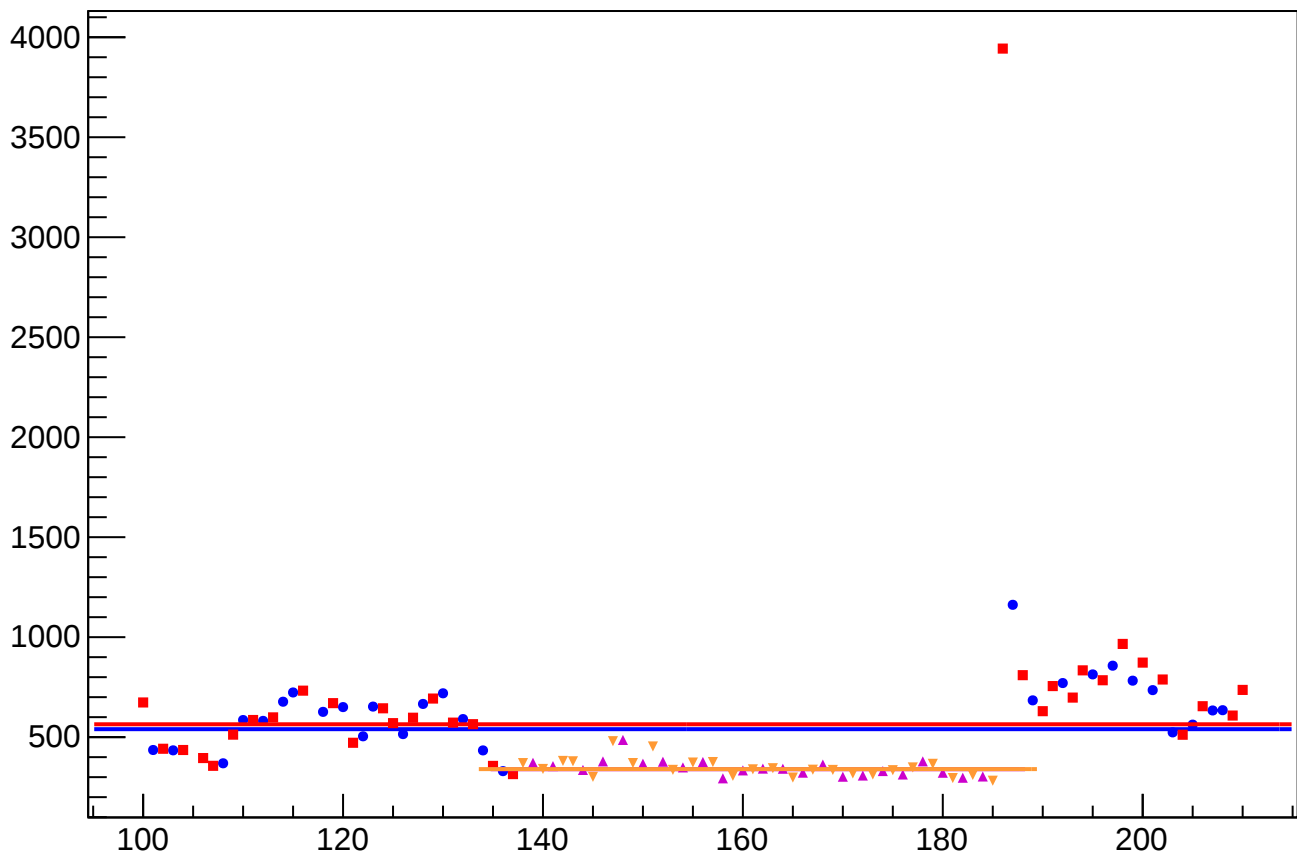
Right: 96.106+/-104.191 χ^2/NDF : 63.9/60

In: 49.441+/-71.699 χ^2/NDF : 67.8/50

Out: -43.126+/-70.034 χ^2/NDF : 57.6/57

All: 2.070+/-50.100 χ^2/NDF : 126.2/108

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 539.936 $\pm$ 0.105 χ^2 /NDF: 2193969.5/27

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 564.409 $\pm$ 0.103 χ^2 /NDF: 2997230.2/32

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

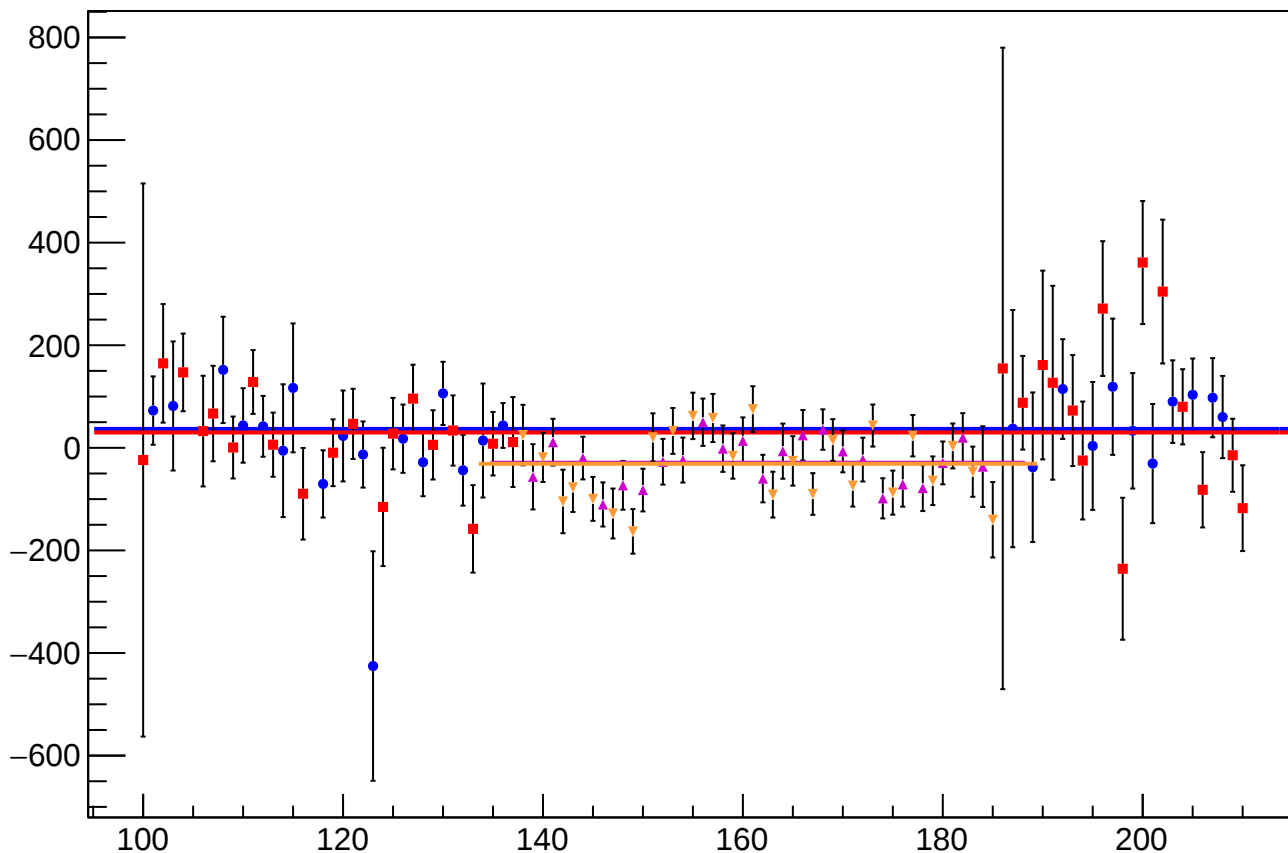
Right: 552.396 $\pm$ 0.074 χ^2 /NDF: 5218775.6/60

In: 386.186 $\pm$ 0.051 χ^2 /NDF: 5359141.7/50

Out: 391.801 $\pm$ 0.050 χ^2 /NDF: 7095379.8/57

All: 389.060 $\pm$ 0.035 χ^2 /NDF: 12460798.7/10

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 36.885 ± 15.331 $\chi^2/\text{NDF}: 17.2/27$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 29.907 ± 14.786 $\chi^2/\text{NDF}: 43.2/32$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

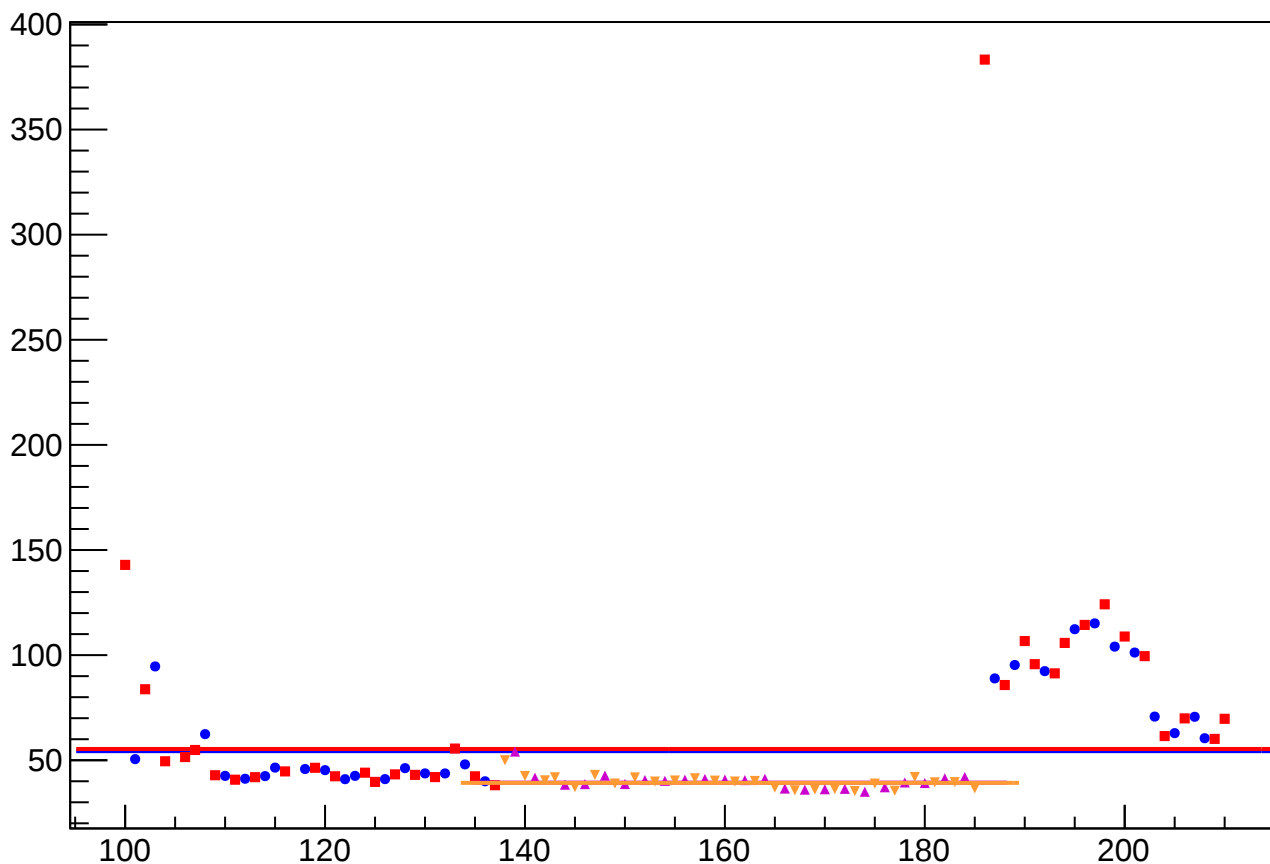
Right: 33.270 ± 10.643 $\chi^2/\text{NDF}: 60.5/60$

In: -10.901 ± 8.044 $\chi^2/\text{NDF}: 53.1/50$

Out: -14.128 ± 7.793 $\chi^2/\text{NDF}: 108.1/57$

All: -12.566 ± 5.597 $\chi^2/\text{NDF}: 161.2/108$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 54.318 $\pm$ 0.011 χ^2 /NDF: 3273573.8/27

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 55.362 $\pm$ 0.010 χ^2 /NDF: 4390712.1/32

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

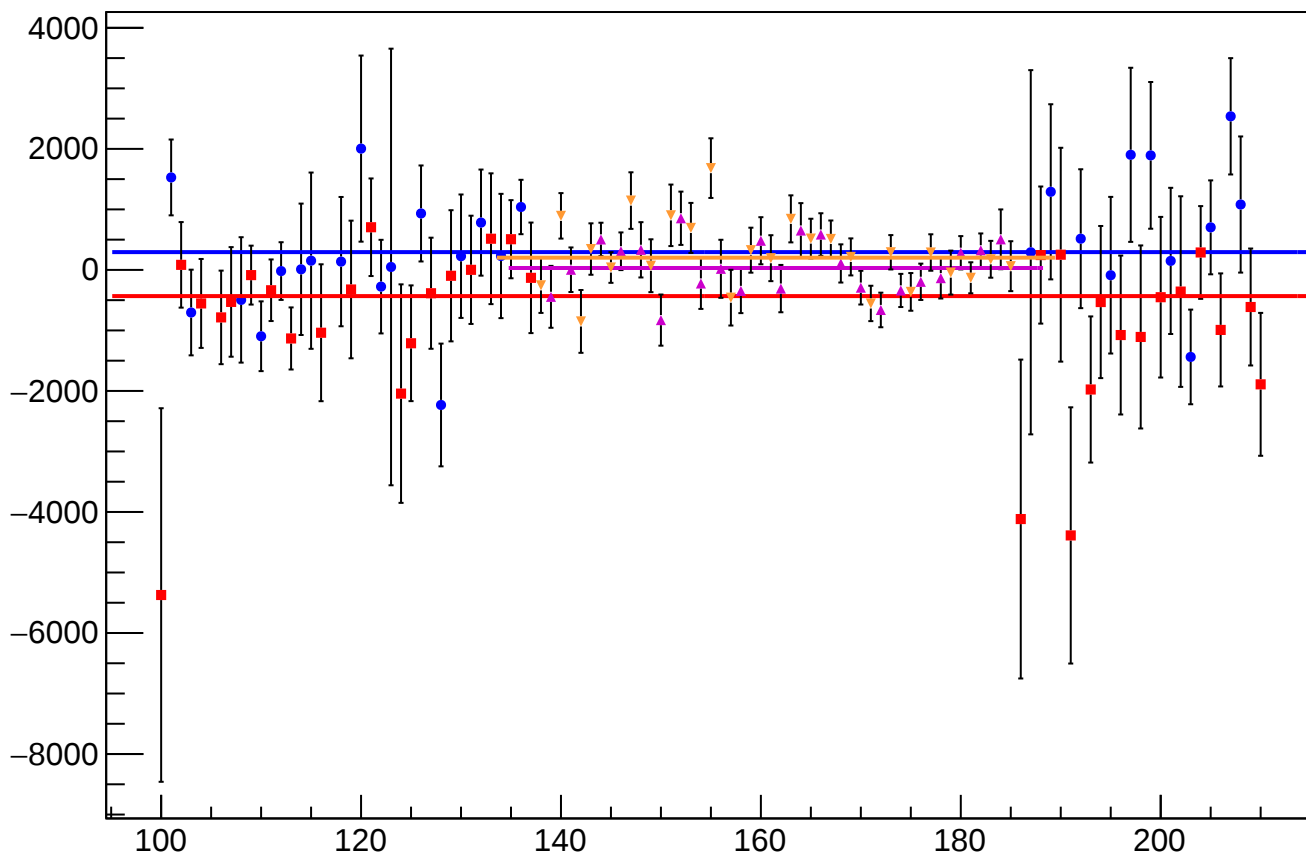
Right: 54.859 $\pm$ 0.008 χ^2 /NDF: 7669092.2/60

In: 43.462 $\pm$ 0.006 χ^2 /NDF: 4872889.5/50

Out: 43.714 $\pm$ 0.006 χ^2 /NDF: 6310923.7/57

All: 43.592 $\pm$ 0.004 χ^2 /NDF: 11184826.6/108

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 294.098 $\pm$ 164.522 χ^2 /NDF: 39.2/27

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -432.735 $\pm$ 157.364 χ^2 /NDF: 23.7/32

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

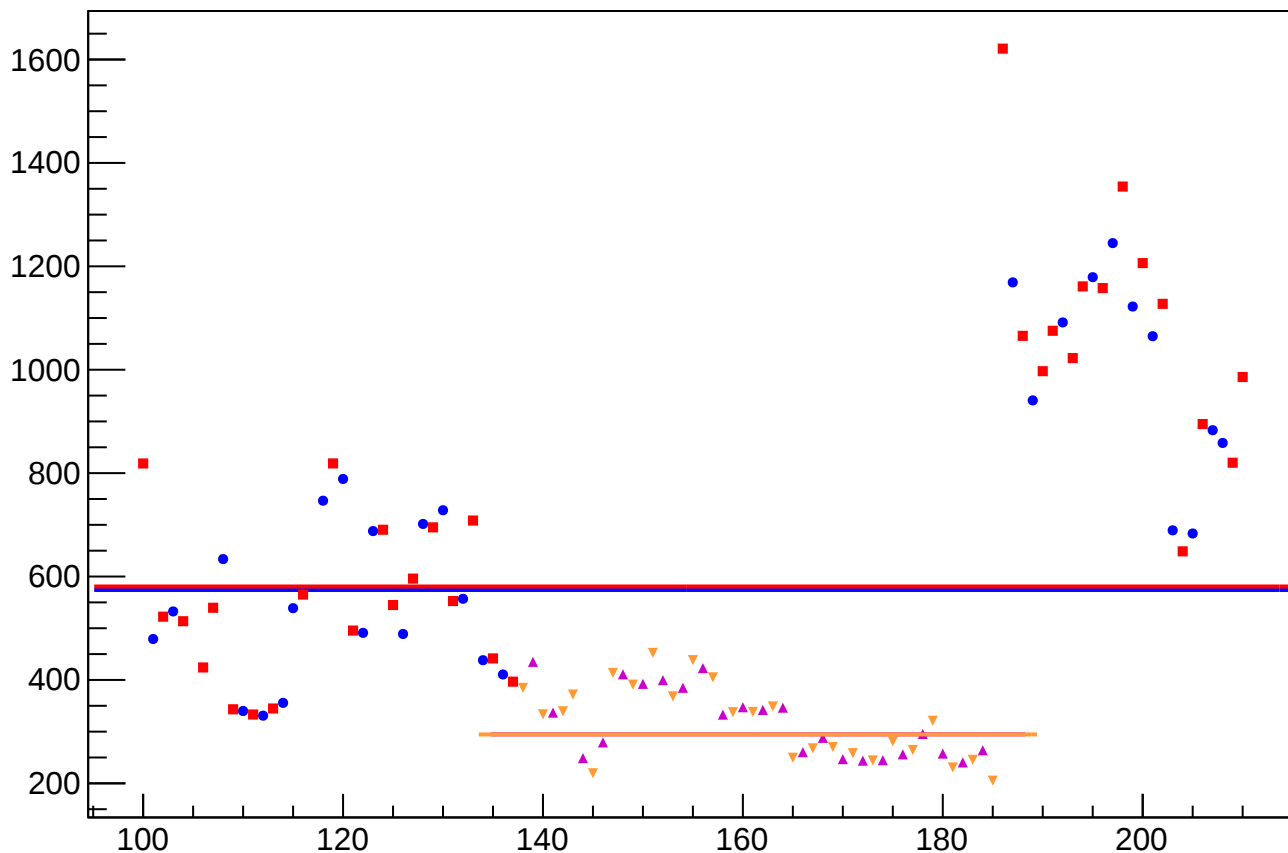
Right: -85.475 $\pm$ 113.720 χ^2 /NDF: 73.1/60

In: 73.848 $\pm$ 66.037 χ^2 /NDF:74.7/50

Out: 96.392 $\pm$ 64.282 χ^2 /NDF:82.1/57

All: 85.423 $\pm$ 46.062 χ^2 /NDF: 156.9/108

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 574.071+/-0.116 χ^2/NDF : 4150980.5/27

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 580.752+/-0.111 χ^2/NDF : 5636590.9/32

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

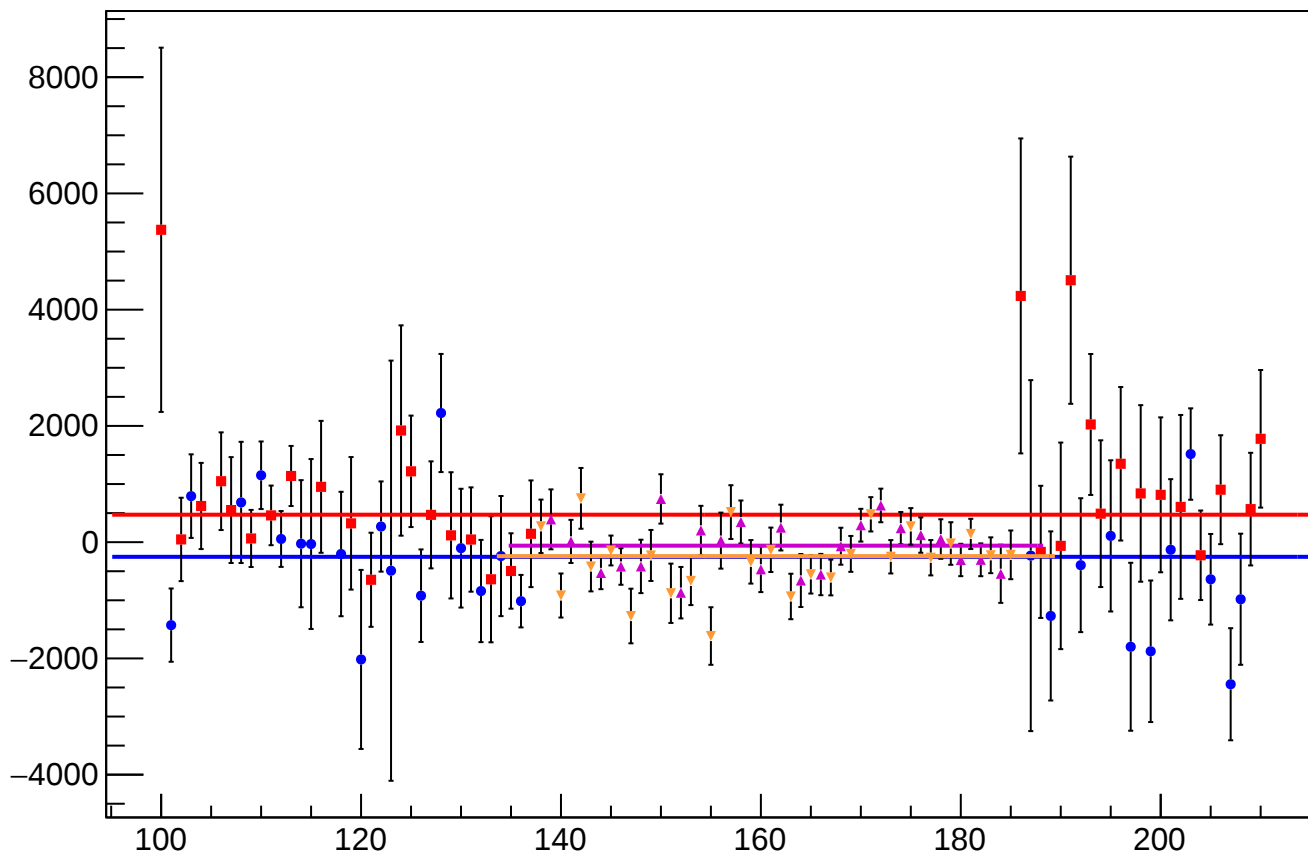
Right: 577.560+/-0.080 χ^2/NDF : 9789293.7/60

In: 339.728+/-0.047 χ^2/NDF : 10285346.5/50

Out: 342.342+/-0.045 χ^2/NDF : 12827096.0/57

All: 341.070+/-0.033 χ^2/NDF : 23114051.4/10

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -252.100+/-165.472 χ^2/NDF : 38.8/27

Left Out: -240.357+/-71.100 χ^2/NDF : 42.9/24

Right Out: 472.635+/-158.789 χ^2/NDF : 23.2/32

Left In: -60.330+/-72.788 χ^2/NDF : 30.9/22

Left: -152.455+/-50.862 χ^2/NDF : 77.0/47

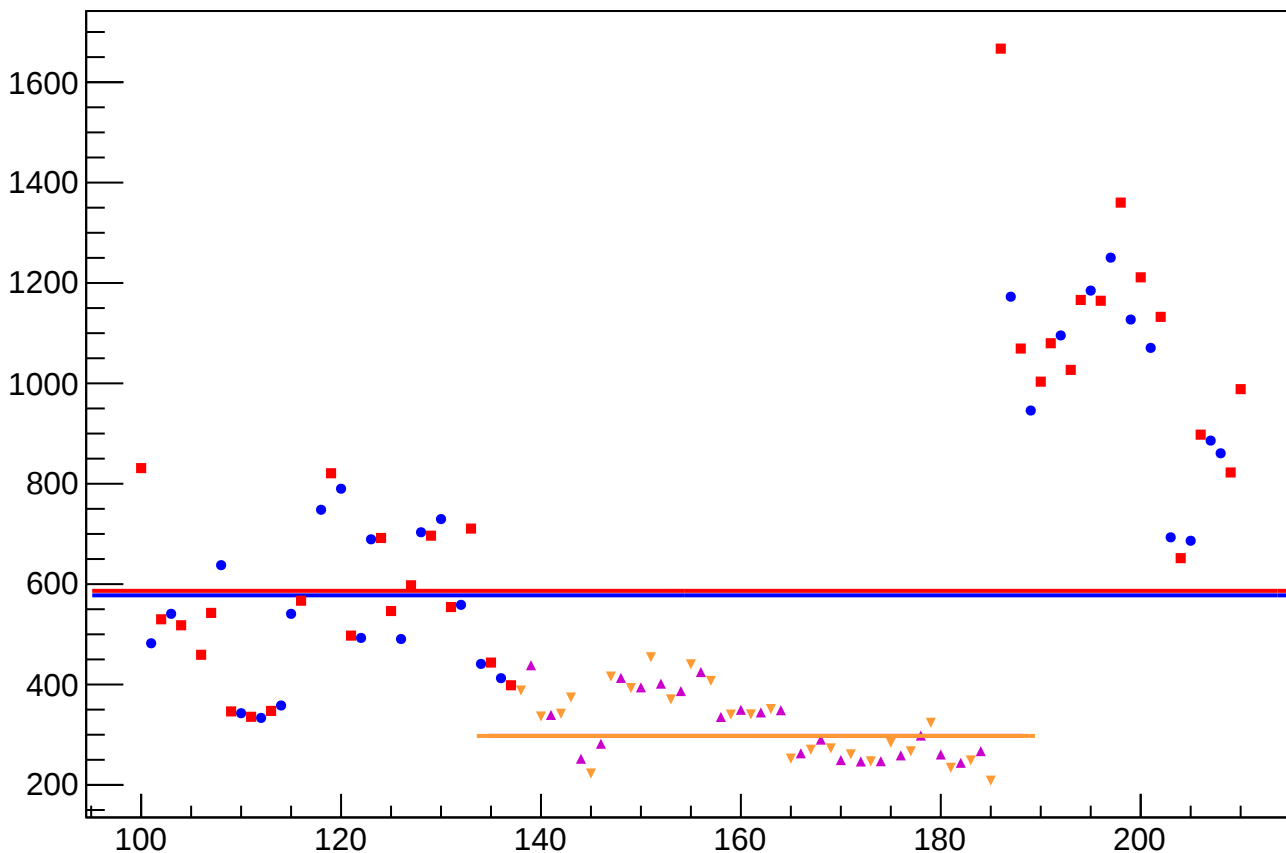
Right: 125.200+/-114.571 χ^2/NDF : 72.0/60

In: -91.420+/-66.627 χ^2/NDF : 70.8/50

Out: -121.279+/-64.892 χ^2/NDF : 82.9/57

All: -106.744+/-46.487 χ^2/NDF : 153.9/108

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 577.676+/-0.117 χ^2/NDF : 4127994.7/27

Left Out: 297.613+/-0.050 χ^2/NDF :1637757.8/24

Right Out: 586.648+/-0.112 χ^2/NDF : 5573279.6/32

Left In: 297.699+/-0.051 χ^2/NDF :1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

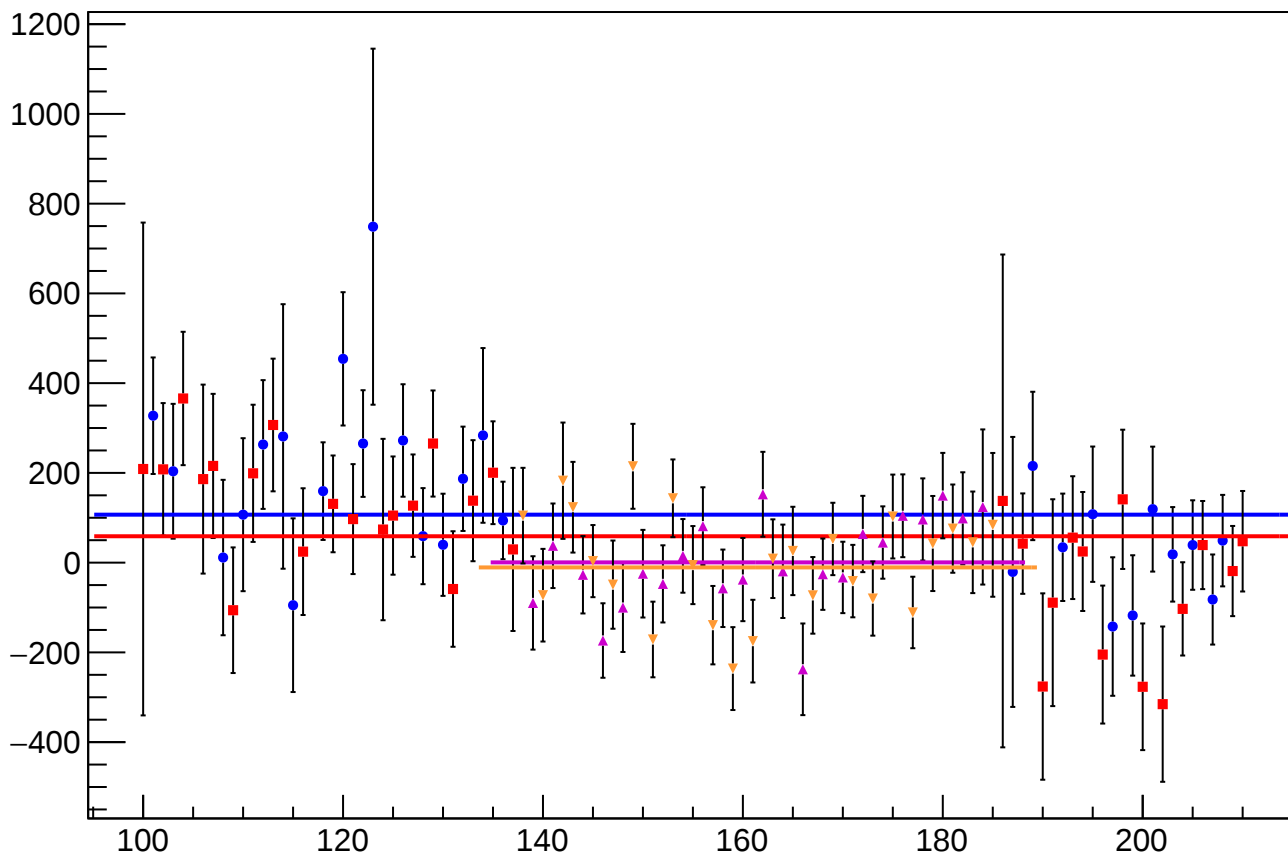
Right: 582.347+/-0.081 χ^2/NDF : 9704335.3/60

In: 343.090+/-0.047 χ^2/NDF :10191676.6/50

Out: 345.885+/-0.046 χ^2/NDF :12730967.1/57

All: 344.524+/-0.033 χ^2/NDF : 22924449.4/100

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 106.899 ± 24.811 χ^2/NDF : 31.4/27

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 58.793 ± 24.053 χ^2/NDF : 38.3/32

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

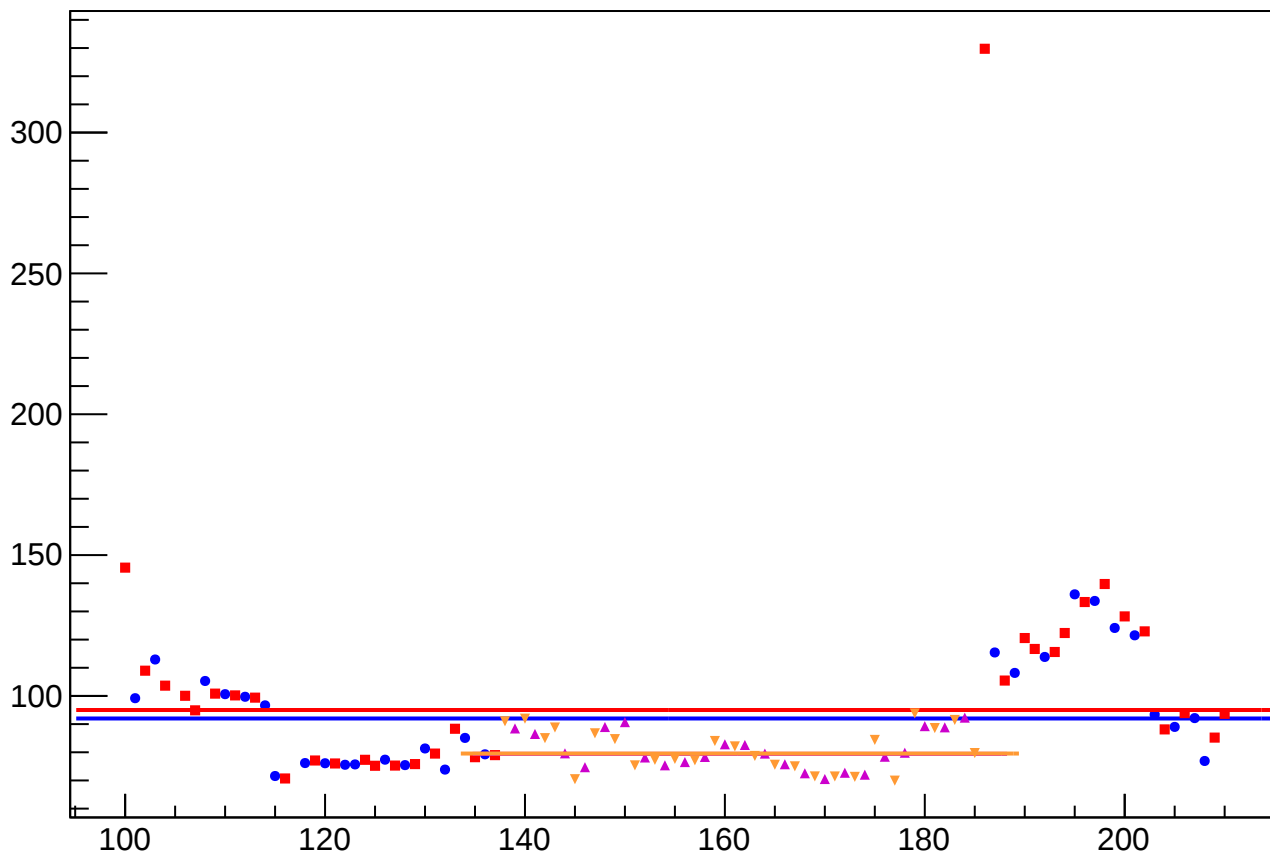
Right: 82.100 ± 17.270 χ^2/NDF : 71.6/60

In: 40.116 ± 15.131 χ^2/NDF : 66.7/50

Out: 15.342 ± 14.719 χ^2/NDF : 79.9/57

All: 27.387 ± 10.550 χ^2/NDF : 147.9/108

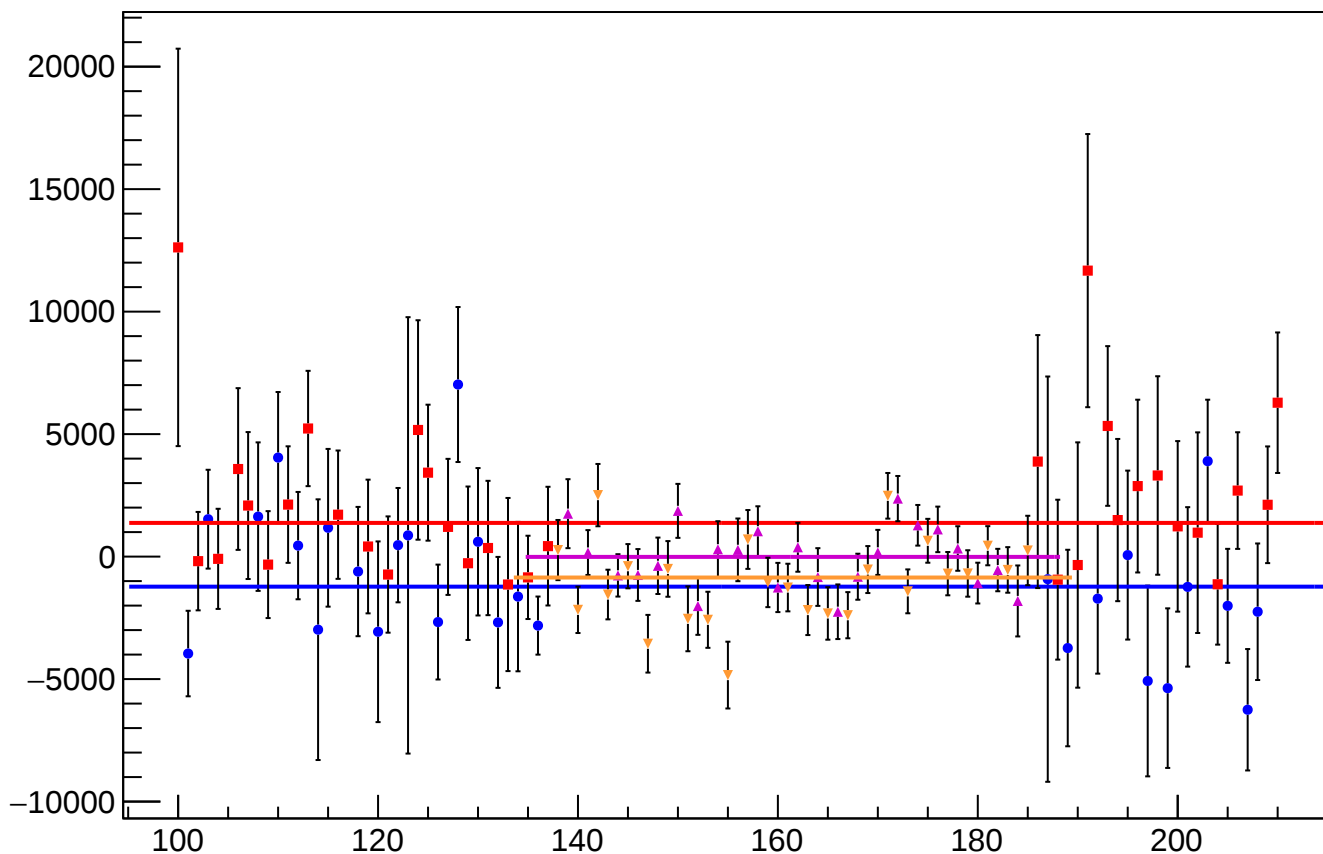
reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 91.996 $\pm$ 0.018 χ^2 /NDF: 1050128.8/27
 Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24
 Right Out: 95.007 $\pm$ 0.017 χ^2 /NDF: 1520752.8/32
 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: 93.548 $\pm$ 0.012 χ^2 /NDF: 2586066.7/60
 In: 84.107 $\pm$ 0.011 χ^2 /NDF:1584444.2/50
 Out: 85.338 $\pm$ 0.010 χ^2 /NDF:2346384.0/57
 All: 84.740 $\pm$ 0.007 χ^2 /NDF: 3937633.4/108

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1226.774 $\pm$ 494.802 χ^2 /NDF: 32.6/27

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1375.426 $\pm$ 488.976 χ^2 /NDF: 22.4/32

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

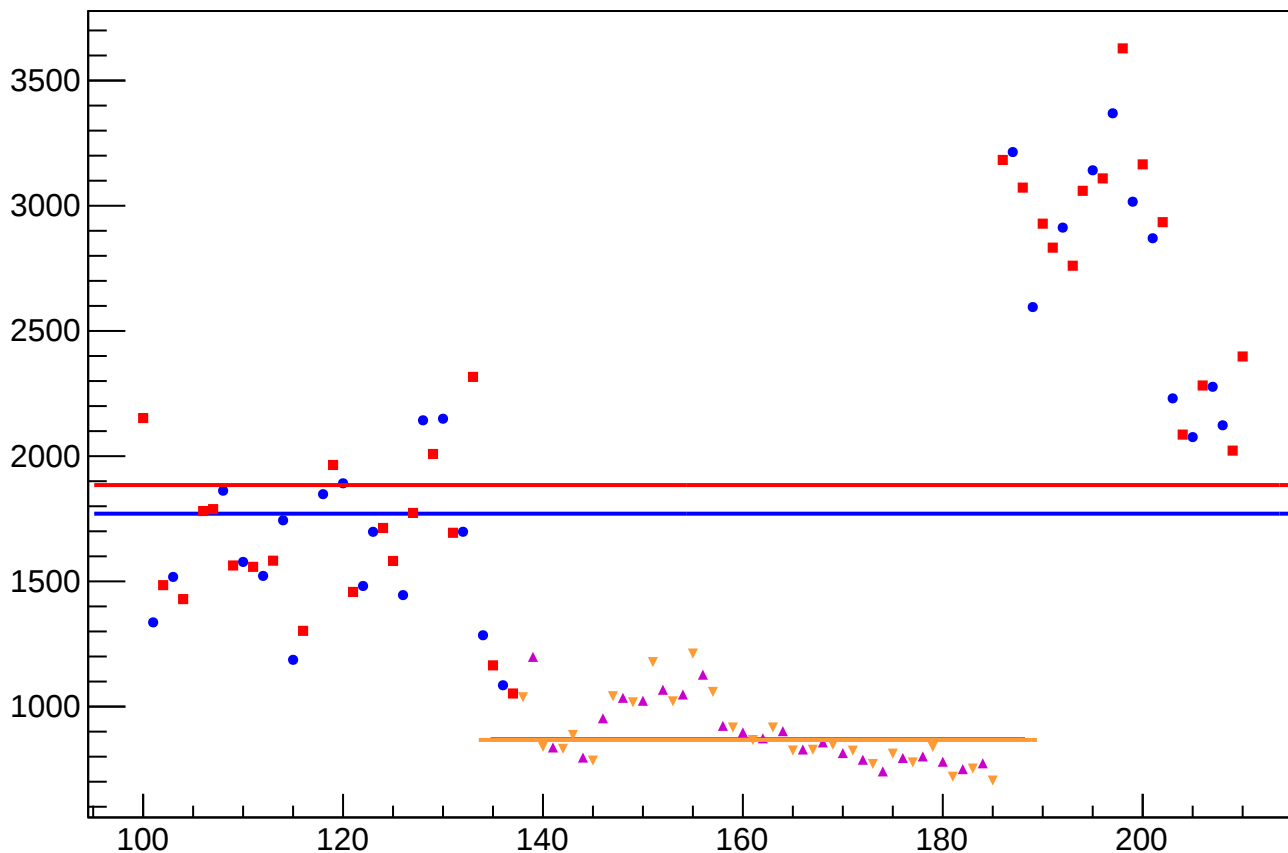
Right: 89.735 $\pm$ 347.800 χ^2 /NDF: 69.0/60

In: -197.259 $\pm$ 193.367 χ^2 /NDF:68.9/50

Out: -523.348 $\pm$ 188.343 χ^2 /NDF:96.1/57

All: -364.595 $\pm$ 134.920 χ^2 /NDF: 166.5/108

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1770.349 $\pm$ 0.350 χ^2 /NDF: 2927732.1/27

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1884.630 $\pm$ 0.346 χ^2 /NDF: 3217461.8/32

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

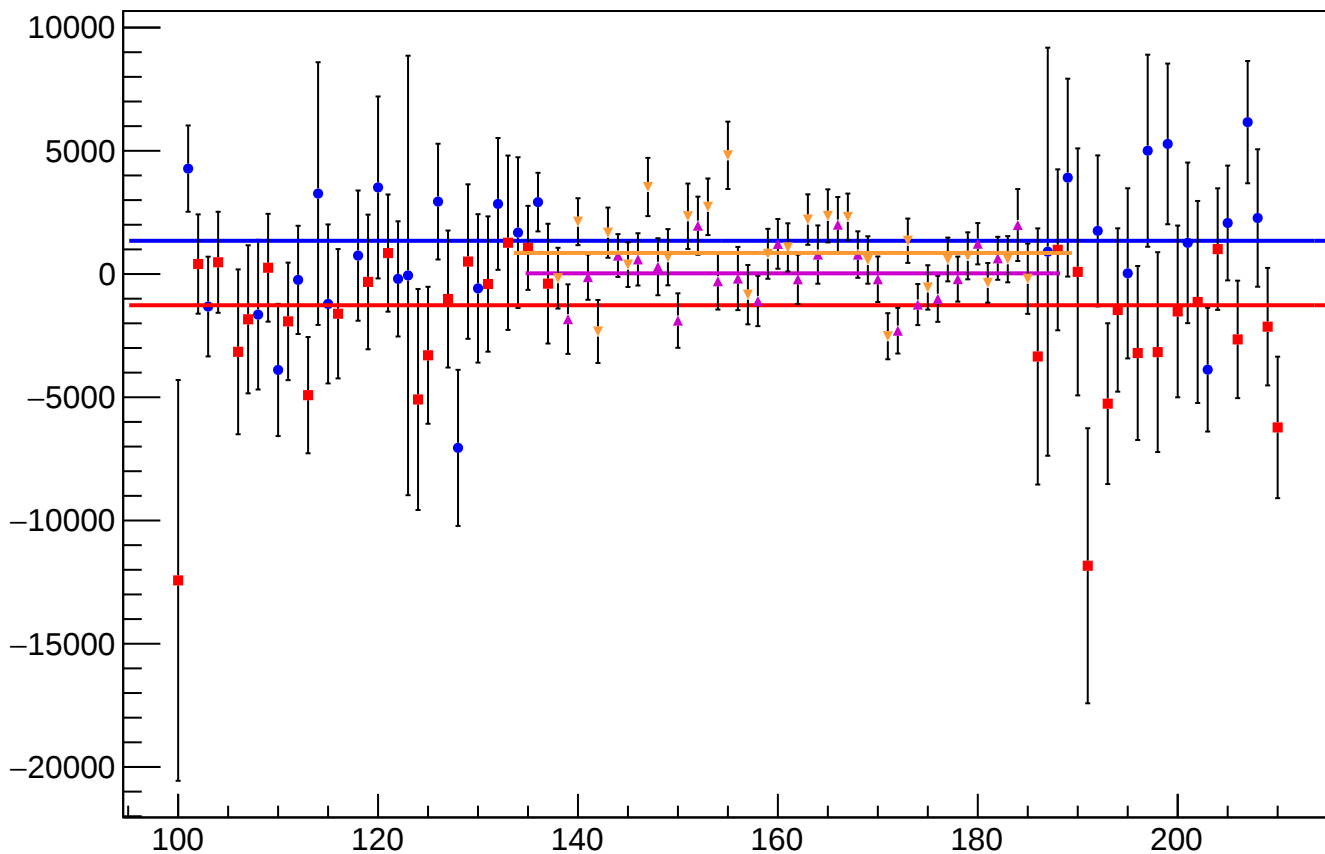
Right: 1828.167 $\pm$ 0.246 χ^2 /NDF: 6199169.9/60

In: 1007.138 $\pm$ 0.137 χ^2 /NDF: 9126081.0/50

Out: 1017.887 $\pm$ 0.133 χ^2 /NDF: 11257890.9/57

All: 1012.654 $\pm$ 0.095 χ^2 /NDF: 20387143.0/112

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1348.782 ± 495.661 χ^2/NDF : 32.7/27

Left Out: 855.664 ± 205.047 χ^2/NDF : 54.1/24

Right Out: -1266.171 ± 489.887 χ^2/NDF : 22.4/32

Left In: 28.553 ± 211.034 χ^2/NDF : 29.7/22

Left: 454.007 ± 147.061 χ^2/NDF : 91.7/47

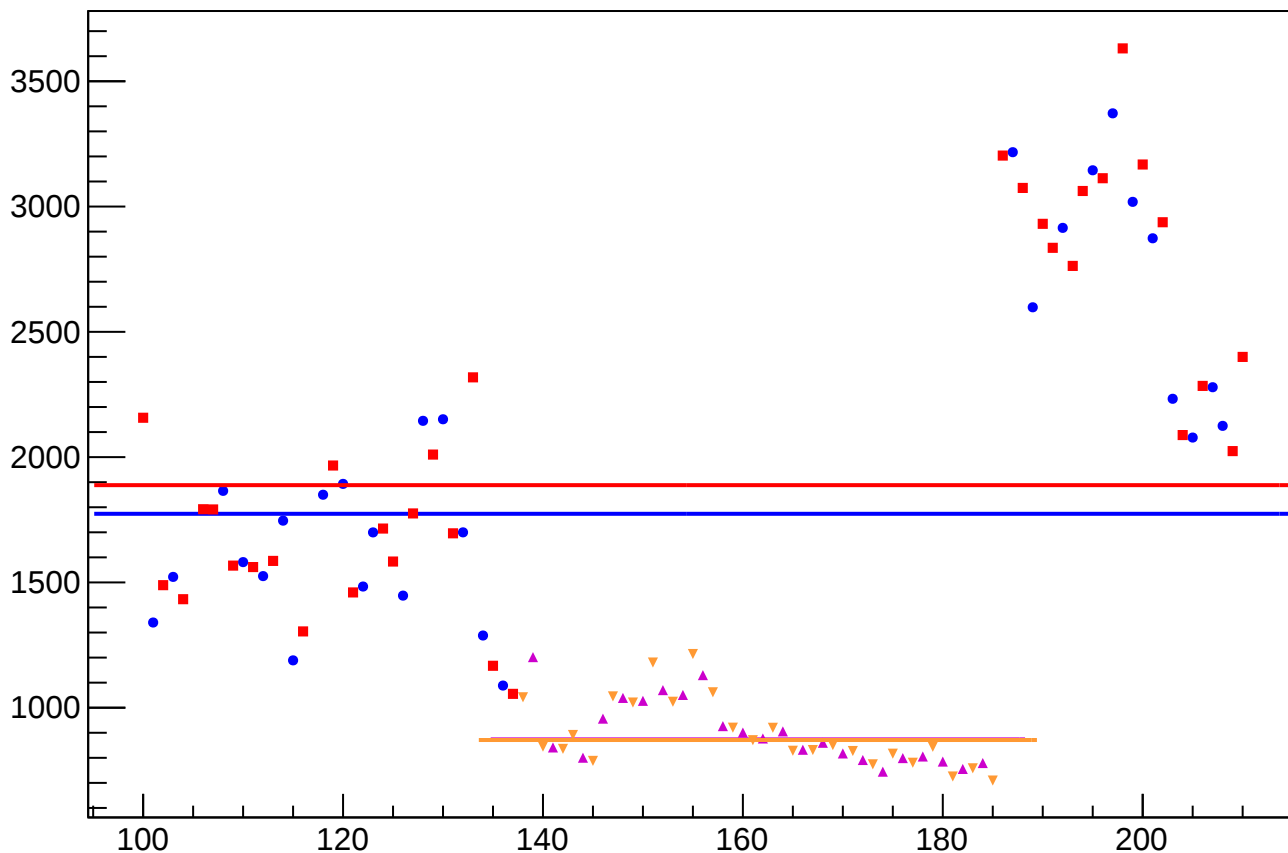
Right: 25.986 ± 348.426 χ^2/NDF : 69.1/60

In: 231.150 ± 194.168 χ^2/NDF : 68.4/50

Out: 539.351 ± 189.147 χ^2/NDF : 92.4/57

All: 389.287 ± 135.487 χ^2/NDF : 162.1/108

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1773.850 $\pm$ 0.350 χ^2 /NDF: 2916018.6/27

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1888.177 $\pm$ 0.346 χ^2 /NDF: 3208682.6/32

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

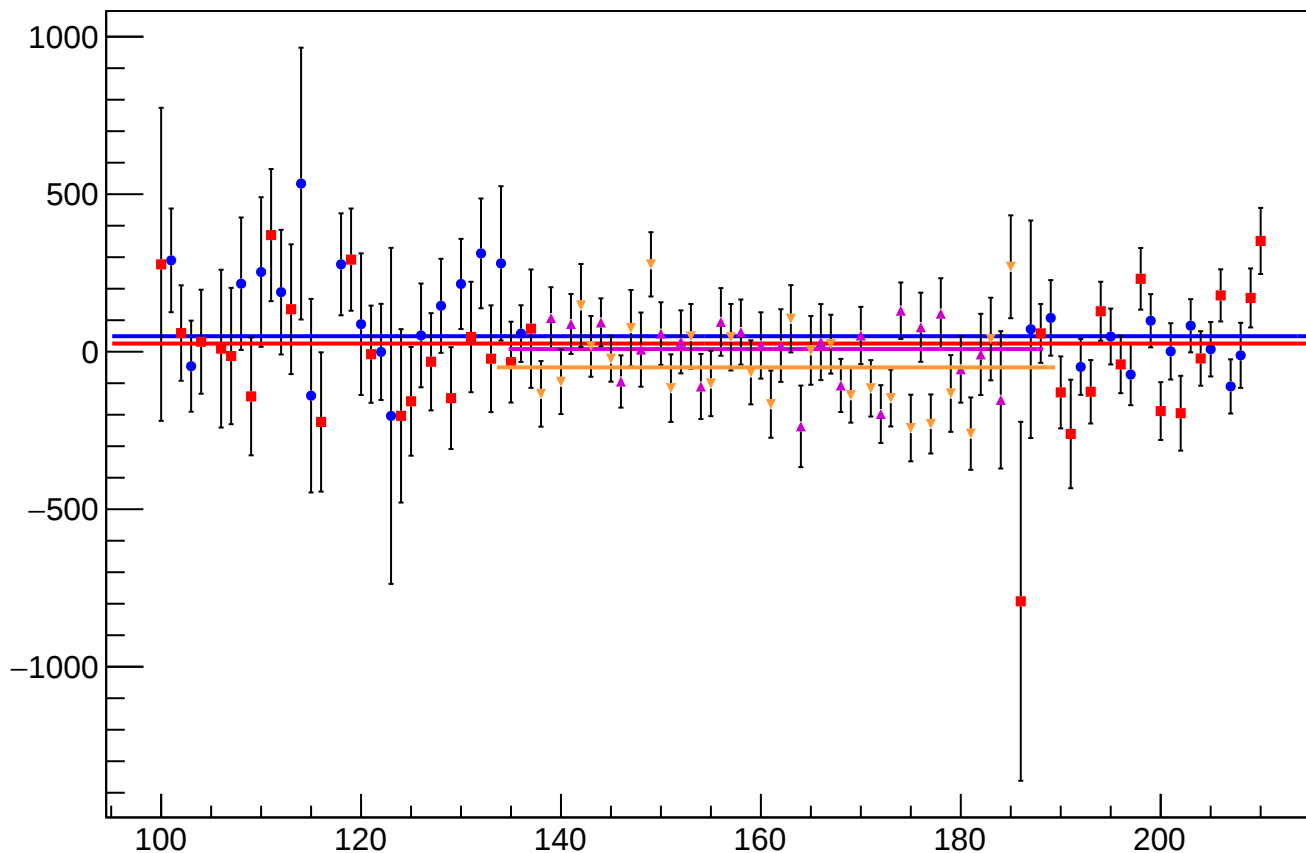
Right: 1831.683 $\pm$ 0.246 χ^2 /NDF: 6178527.0/60

In: 1011.813 $\pm$ 0.137 χ^2 /NDF: 9074084.7/50

Out: 1022.729 $\pm$ 0.134 χ^2 /NDF: 11195938.9/57

All: 1017.414 $\pm$ 0.096 χ^2 /NDF: 20273267.3/107

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 49.180 ± 23.688 $\chi^2/\text{NDF}: 21.2/27$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 25.899 ± 22.824 $\chi^2/\text{NDF}: 51.5/32$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

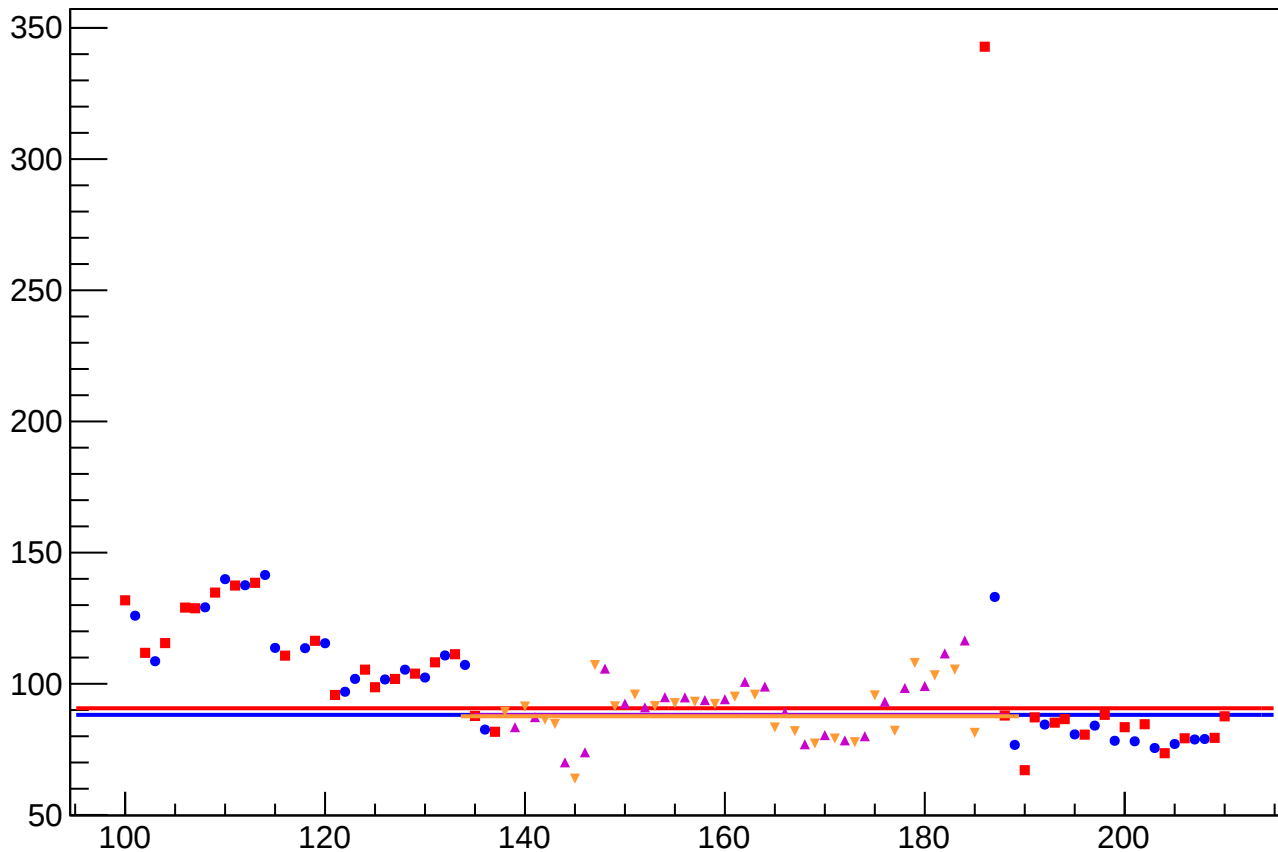
Right: 37.107 ± 16.436 $\chi^2/\text{NDF}: 73.2/60$

In: 26.572 ± 15.827 $\chi^2/\text{NDF}: 44.8/50$

Out: -15.808 ± 15.284 $\chi^2/\text{NDF}: 97.0/57$

All: 4.643 ± 10.994 $\chi^2/\text{NDF}: 145.5/108$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 88.160 $\pm$ 0.017 χ^2 /NDF: 929474.6/27

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 90.677 $\pm$ 0.016 χ^2 /NDF: 1363121.4/32

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

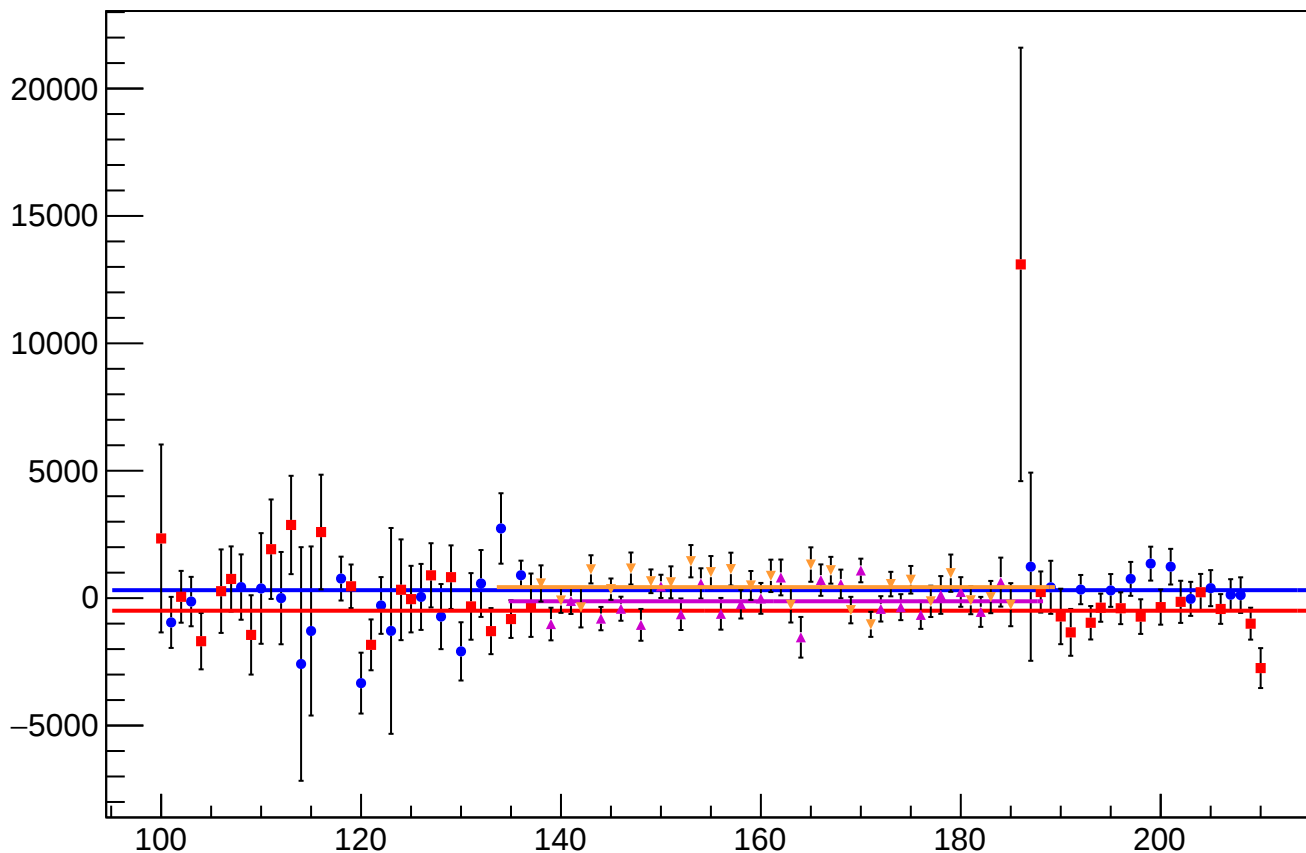
Right: 89.465 $\pm$ 0.012 χ^2 /NDF: 2304308.2/60

In: 88.089 $\pm$ 0.011 χ^2 /NDF: 1453217.9/50

Out: 88.994 $\pm$ 0.011 χ^2 /NDF: 1937535.7/57

All: 88.557 $\pm$ 0.008 χ^2 /NDF: 3394135.7/108

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 312.387 $\pm$ 170.626 χ^2 /NDF: 26.9/27

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -493.798 $\pm$ 159.572 χ^2 /NDF: 31.9/32

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

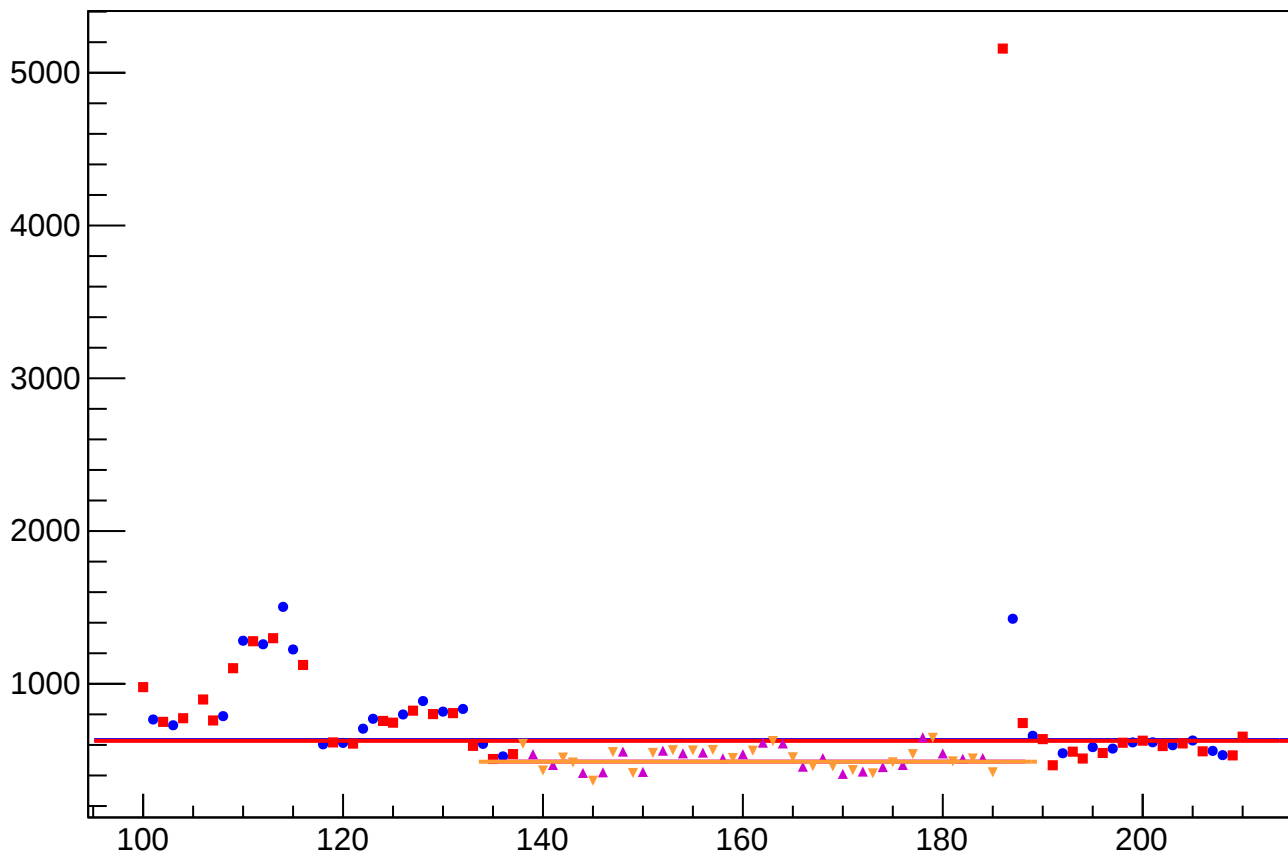
Right: -117.663 $\pm$ 116.546 χ^2 /NDF: 70.8/60

In: 19.222 $\pm$ 97.523 χ^2 /NDF:60.6/50

Out: 112.752 $\pm$ 93.672 χ^2 /NDF:84.4/57

All: 67.870 $\pm$ 67.557 χ^2 /NDF: 145.5/108

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 631.798+/-0.121 χ^2/NDF : 1177719.4/27

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 626.823+/-0.113 χ^2/NDF : 2021802.9/32

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

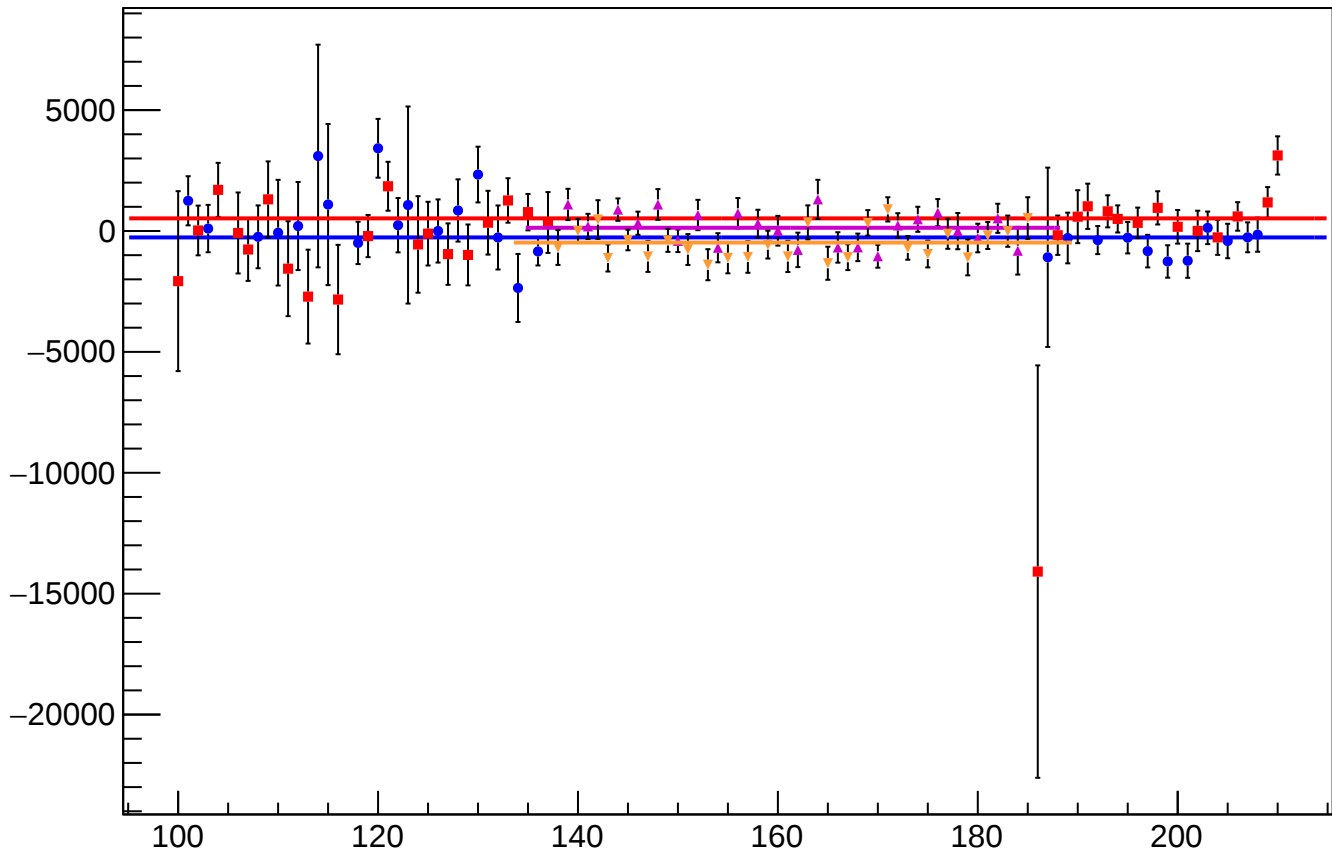
Right: 629.144+/-0.082 χ^2/NDF : 3200429.4/60

In: 536.935+/-0.069 χ^2/NDF : 2685106.6/50

Out: 537.323+/-0.066 χ^2/NDF : 3732035.2/57

All: 537.137+/-0.048 χ^2/NDF : 6417158.3/108

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -265.822 ± 172.451 χ^2/NDF : 27.1/27

Left Out: -478.197 ± 117.659 χ^2/NDF : 27.8/24

Right Out: 521.964 ± 161.419 χ^2/NDF : 34.2/32

Left In: 132.543 ± 120.866 χ^2/NDF : 29.5/22

Left: -181.037 ± 84.308 χ^2/NDF : 70.5/47

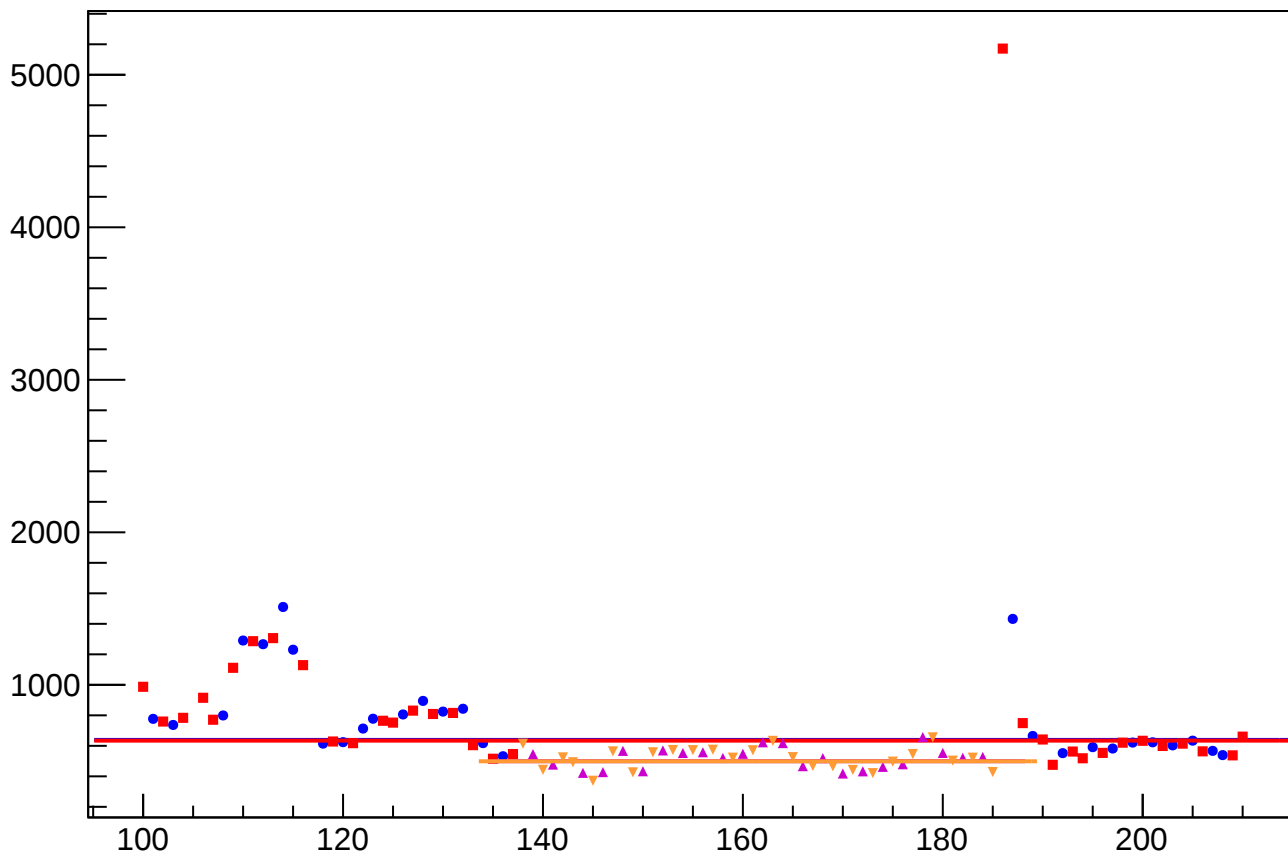
Right: 154.074 ± 117.848 χ^2/NDF : 72.4/60

In: 1.318 ± 98.977 χ^2/NDF : 60.2/50

Out: -131.180 ± 95.081 χ^2/NDF : 87.1/57

All: -67.589 ± 68.568 χ^2/NDF : 148.3/108

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 638.733 ± 0.122 $\chi^2/\text{NDF}: 1166917.5/27$

Left Out: 498.754 ± 0.083 $\chi^2/\text{NDF}: 734302.8/24$

Right Out: 634.320 ± 0.114 $\chi^2/\text{NDF}: 2001718.9/32$

Left In: 499.393 ± 0.085 $\chi^2/\text{NDF}: 576539.2/22$

Left: 499.065 ± 0.060 $\chi^2/\text{NDF}: 1310870.7/47$

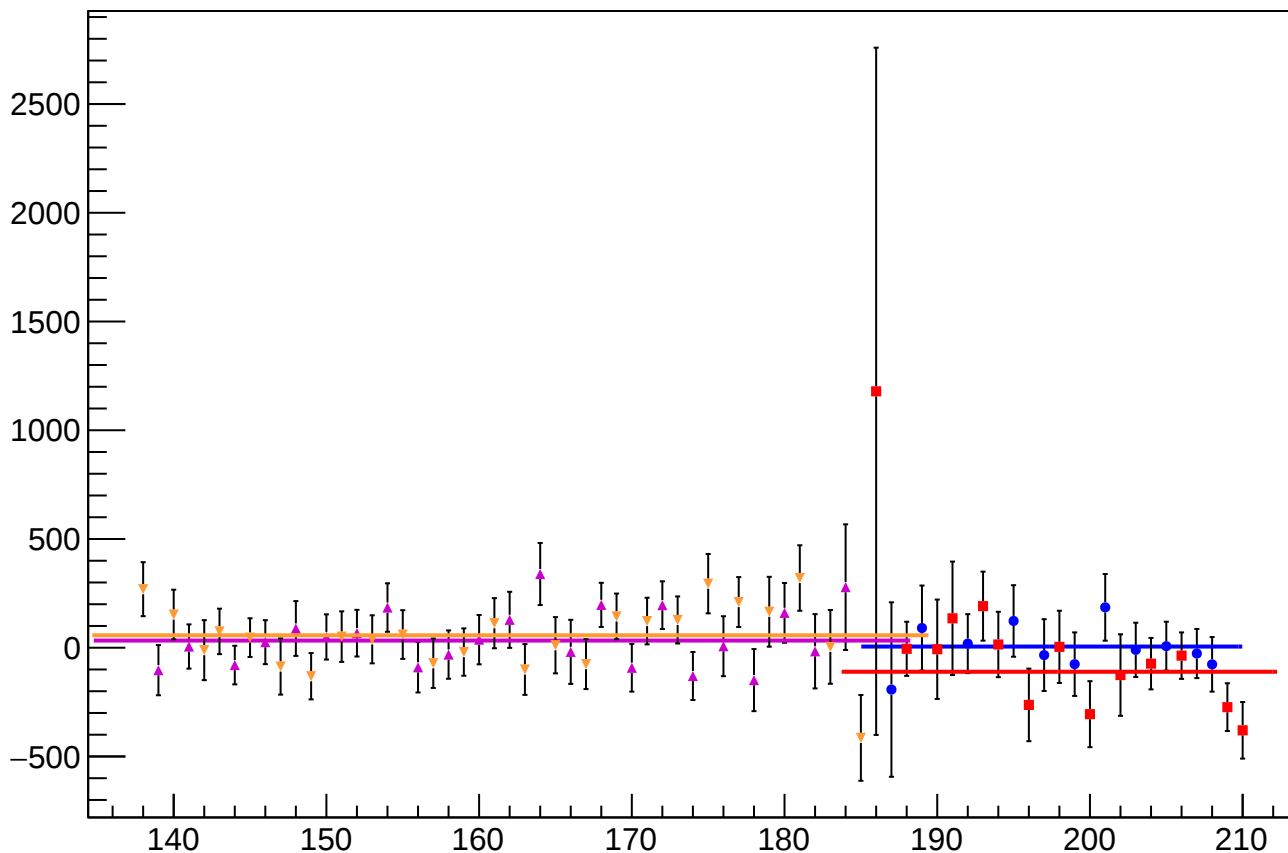
Right: 636.381 ± 0.083 $\chi^2/\text{NDF}: 3169334.3/60$

In: 545.293 ± 0.070 $\chi^2/\text{NDF}: 2619060.2/50$

Out: 545.790 ± 0.067 $\chi^2/\text{NDF}: 3657241.3/57$

All: 545.552 ± 0.048 $\chi^2/\text{NDF}: 6276327.8/108$

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 5.347 ± 43.238 $\chi^2/\text{NDF}: 3.2/10$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -110.508 ± 39.910 $\chi^2/\text{NDF}: 16.8/13$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

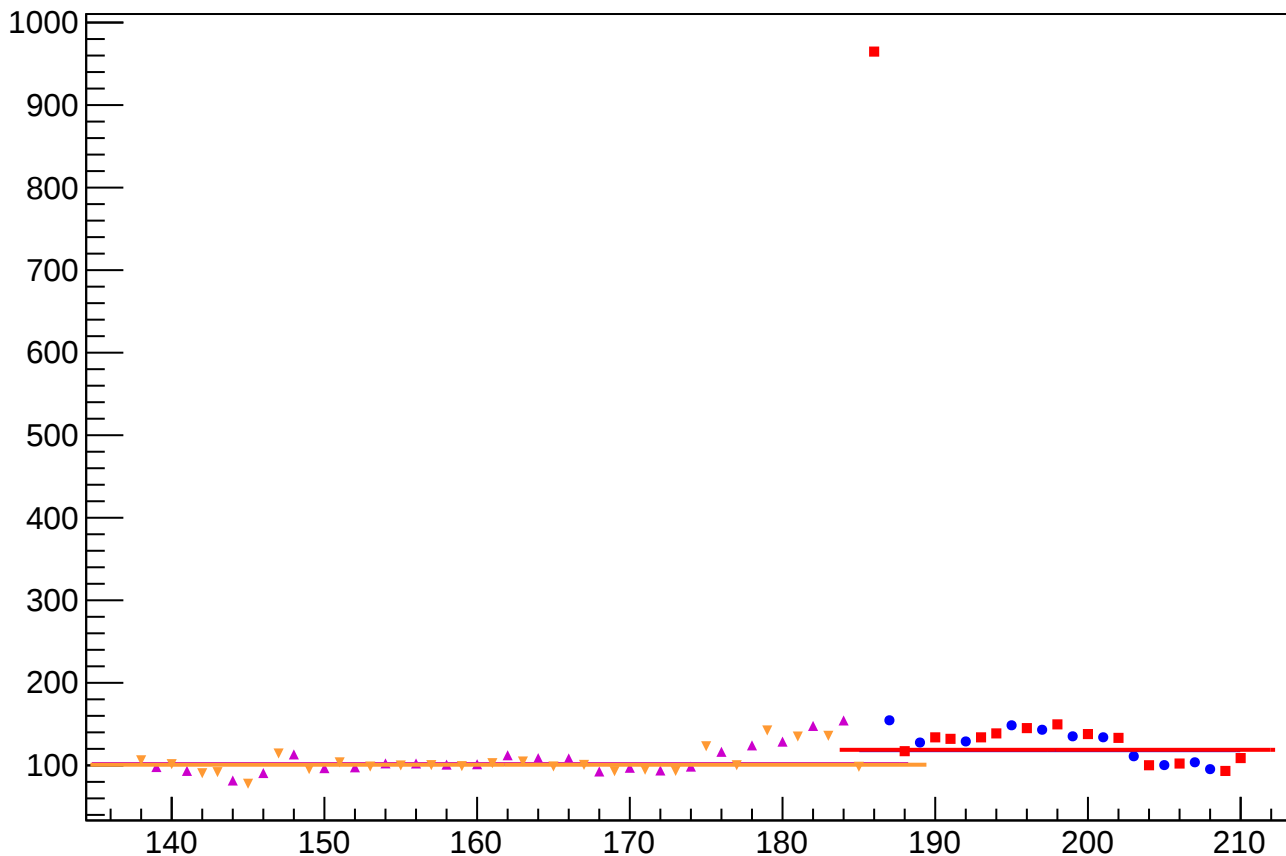
Right: -57.210 ± 29.327 $\chi^2/\text{NDF}: 23.9/24$

In: 26.204 ± 21.373 $\chi^2/\text{NDF}: 27.1/33$

Out: 13.449 ± 20.387 $\chi^2/\text{NDF}: 59.1/38$

All: 19.525 ± 14.752 $\chi^2/\text{NDF}: 86.4/72$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 118.416 $\pm$ 0.031 χ^2 /NDF: 351777.2/10

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 118.840 $\pm$ 0.028 χ^2 /NDF: 1021689.2/13

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

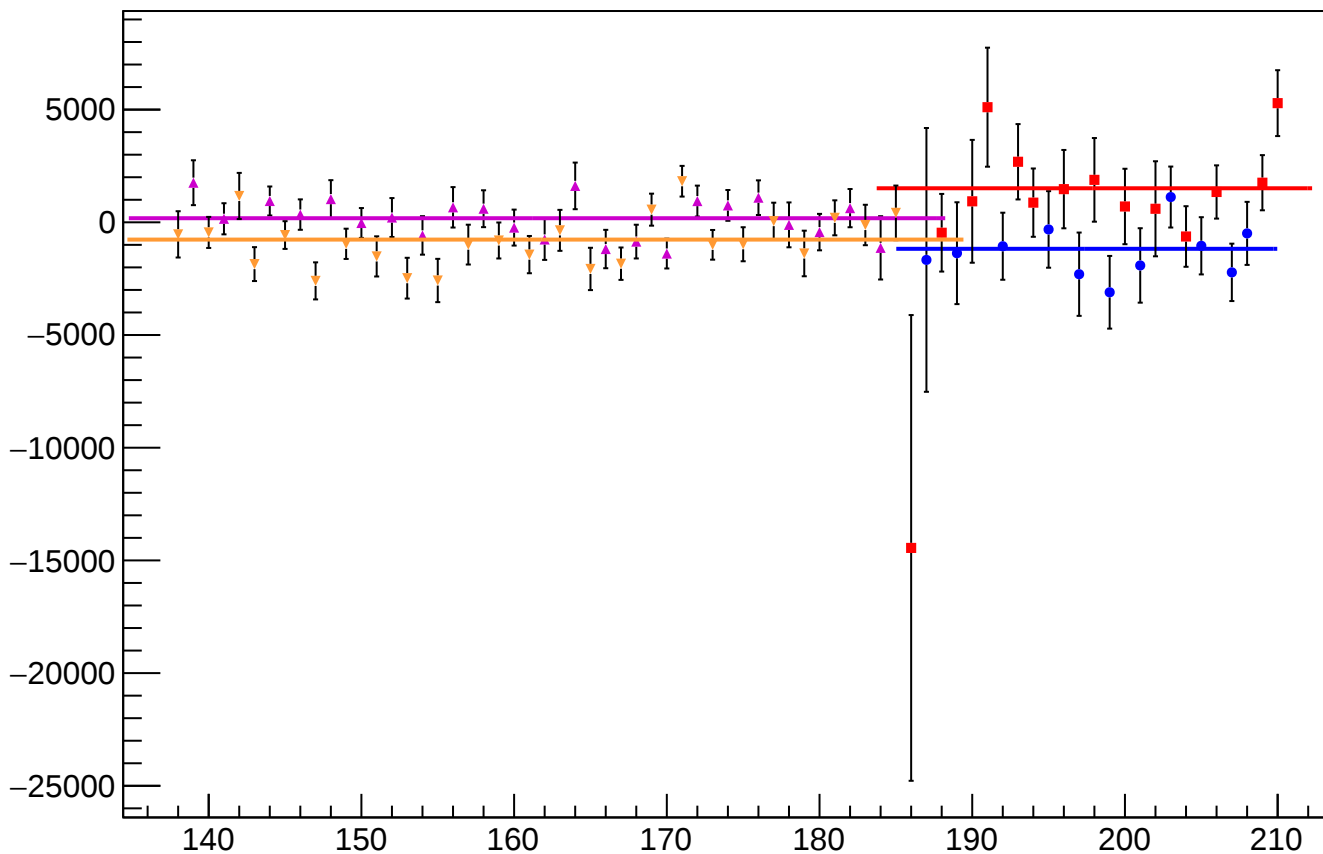
Right: 118.645 $\pm$ 0.021 χ^2 /NDF: 1373570.2/24

In: 105.725 $\pm$ 0.015 χ^2 /NDF: 1162122.4/33

Out: 105.508 $\pm$ 0.014 χ^2 /NDF: 1924195.6/38

All: 105.611 $\pm$ 0.010 χ^2 /NDF: 3086426.8/72

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1175.762 $\pm$ 478.718 χ^2 /NDF: 6.1/10

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1510.257 $\pm$ 445.978 χ^2 /NDF: 16.0/13

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

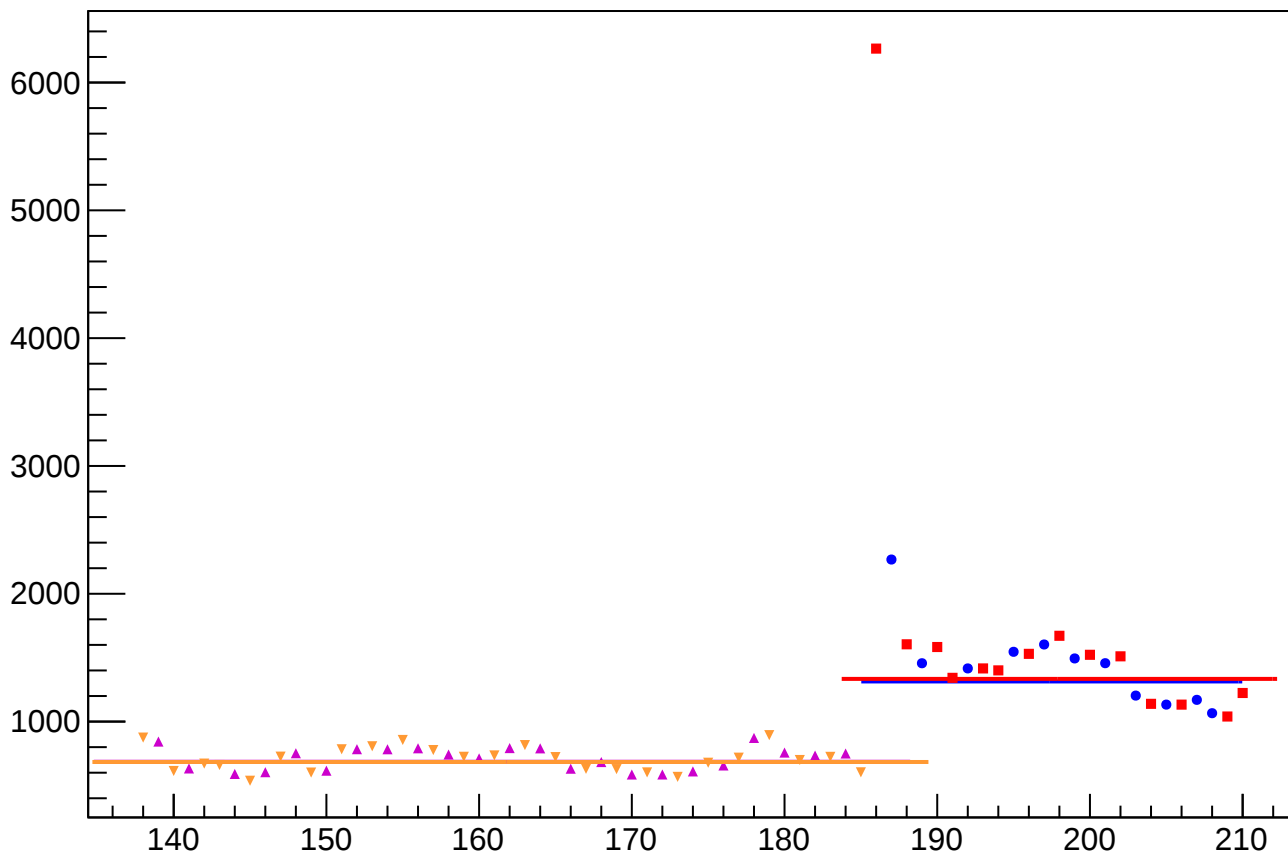
Right: 262.229 $\pm$ 326.315 χ^2 /NDF: 38.9/24

In: 36.407 $\pm$ 156.561 χ^2 /NDF:38.3/33

Out: -503.677 $\pm$ 151.489 χ^2 /NDF:85.6/38

All: -242.523 $\pm$ 108.868 χ^2 /NDF: 130.0/72

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1313.960 $\pm$ 0.339 χ^2 /NDF: 339428.0/10

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1333.962 $\pm$ 0.315 χ^2 /NDF: 888733.5/13

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

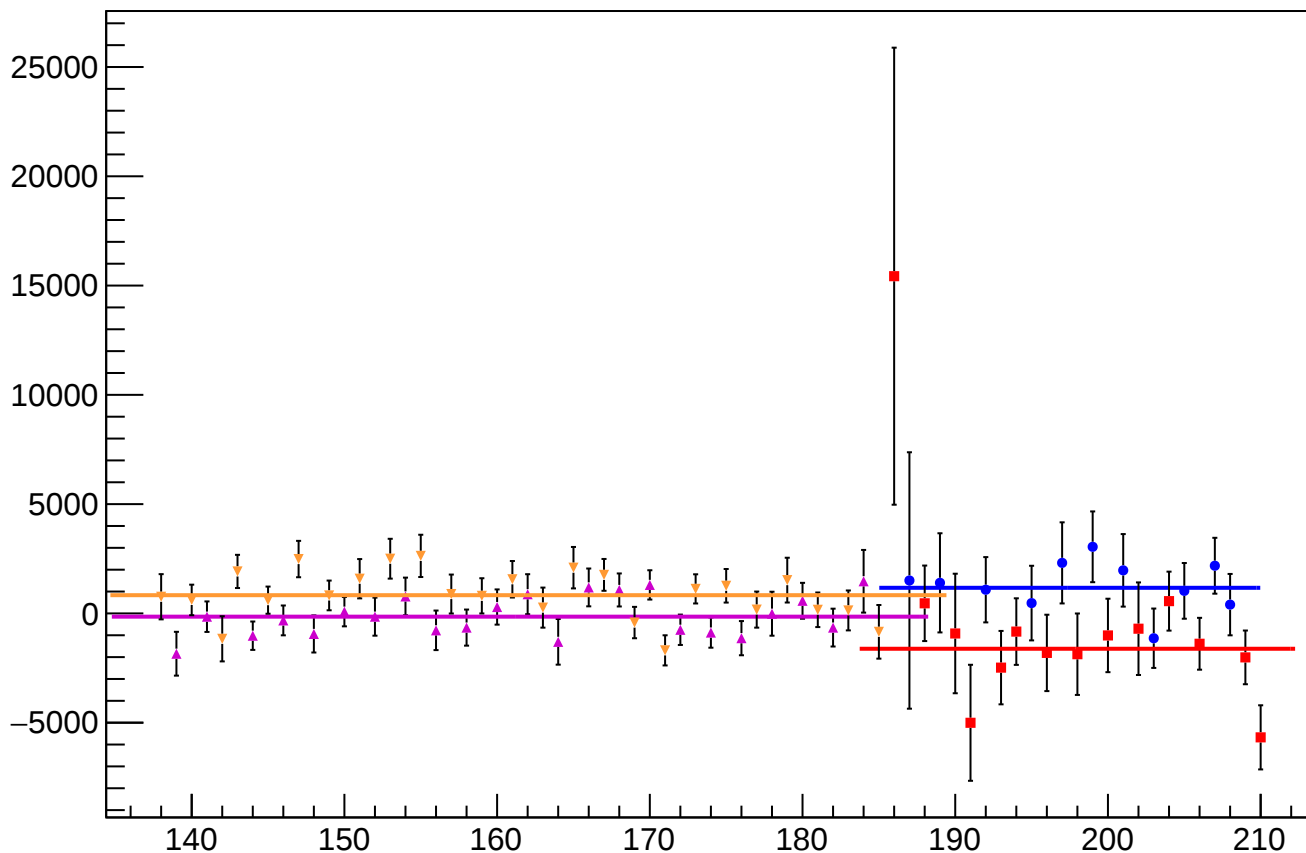
Right: 1324.668 $\pm$ 0.231 χ^2 /NDF: 1230030.7/24

In: 752.801 $\pm$ 0.111 χ^2 /NDF: 3946091.1/33

Out: 758.892 $\pm$ 0.107 χ^2 /NDF: 5315040.5/38

All: 755.946 $\pm$ 0.077 χ^2 /NDF: 9262695.1/72

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1171.547 $\pm$ 480.748 χ^2 /NDF: 6.0/10

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1617.717 $\pm$ 447.872 χ^2 /NDF: 17.1/13

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

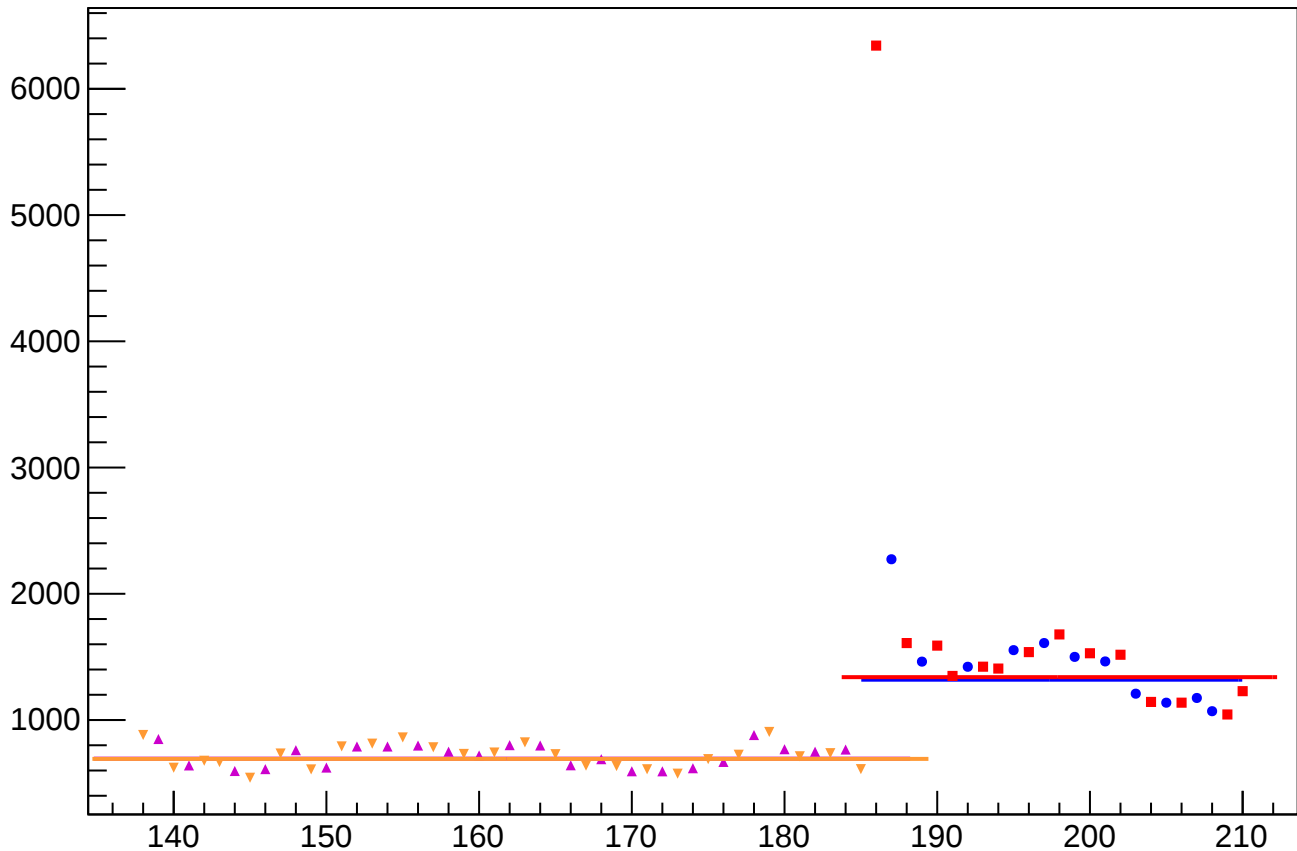
Right: -321.709 $\pm$ 327.700 χ^2 /NDF: 41.0/24

In: -5.663 $\pm$ 158.296 χ^2 /NDF:38.7/33

Out: 546.816 $\pm$ 153.142 χ^2 /NDF:86.7/38

All: 279.716 $\pm$ 110.065 χ^2 /NDF: 131.7/72

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1319.527 $\pm$ 0.340 χ^2 /NDF: 339914.0/10

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1339.578 $\pm$ 0.317 χ^2 /NDF: 891218.5/13

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

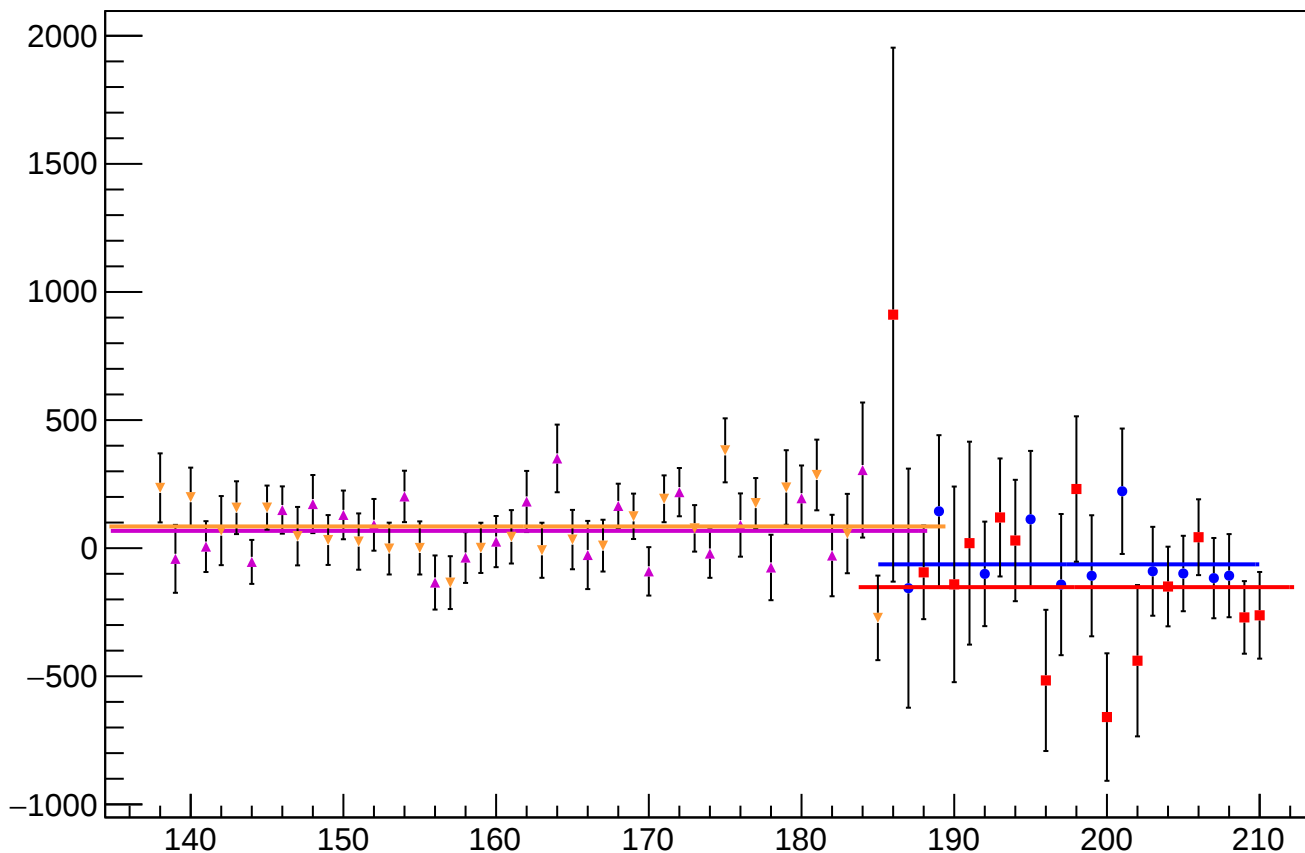
Right: 1330.262 $\pm$ 0.232 χ^2 /NDF: 1232995.0/24

In: 761.700 $\pm$ 0.112 χ^2 /NDF: 3882152.0/33

Out: 767.799 $\pm$ 0.108 χ^2 /NDF: 5239757.0/38

All: 764.850 $\pm$ 0.078 χ^2 /NDF: 9123442.5/72

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -63.128 ± 62.038 χ^2/NDF : 2.7/10

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -152.105 ± 57.186 χ^2/NDF : 14.8/13

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

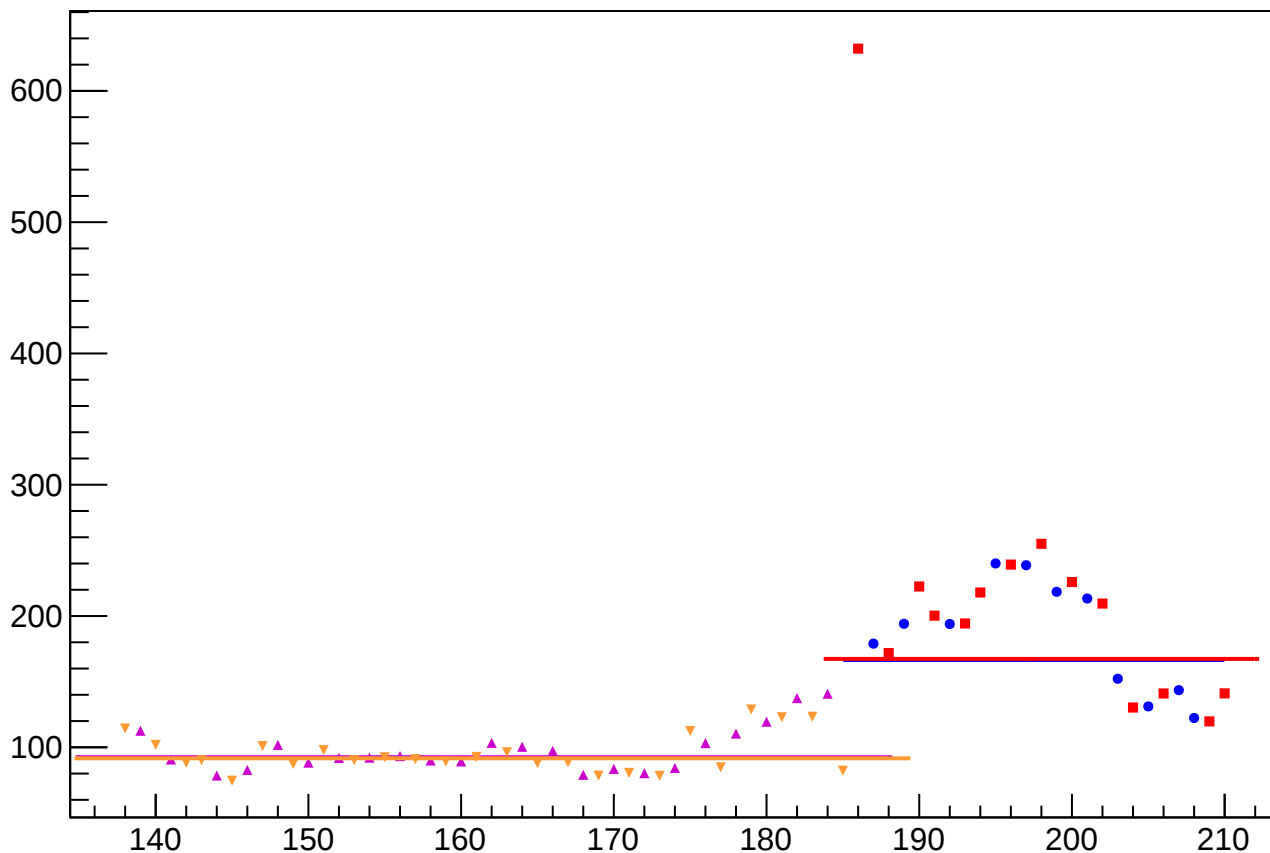
Right: -111.231 ± 42.047 χ^2/NDF : 18.7/24

In: 52.421 ± 21.110 χ^2/NDF : 35.5/33

Out: 55.170 ± 20.242 χ^2/NDF : 58.4/38

All: 53.854 ± 14.610 χ^2/NDF : 93.9/72

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 166.530 $\pm$ 0.044 χ^2 /NDF: 833897.6/10

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 167.344 $\pm$ 0.040 χ^2 /NDF: 1502686.6/13

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

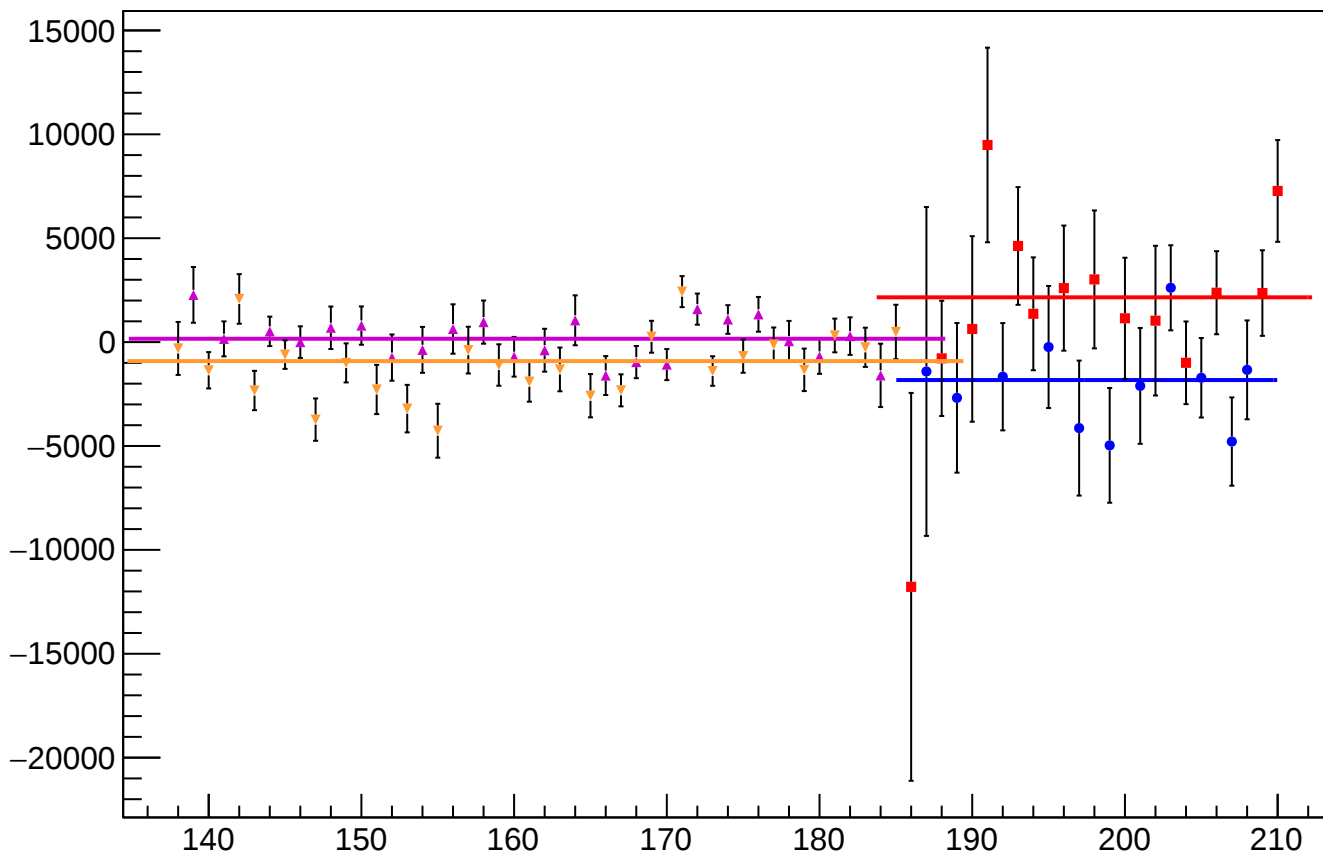
Right: 166.970 $\pm$ 0.030 χ^2 /NDF: 2336770.7/24

In: 101.041 $\pm$ 0.015 χ^2 /NDF: 4010113.8/33

Out: 101.119 $\pm$ 0.014 χ^2 /NDF: 5262313.7/38

All: 101.082 $\pm$ 0.010 χ^2 /NDF: 9272441.5/72

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1826.372 ± 784.843 χ^2/NDF : 8.9/10

Left Out: -914.719 ± 185.341 χ^2/NDF : 64.2/24

Right Out: 2154.745 ± 745.650 χ^2/NDF : 14.0/13

Left In: 161.076 ± 189.491 χ^2/NDF : 25.1/22

Left: -388.730 ± 132.499 χ^2/NDF : 105.7/47

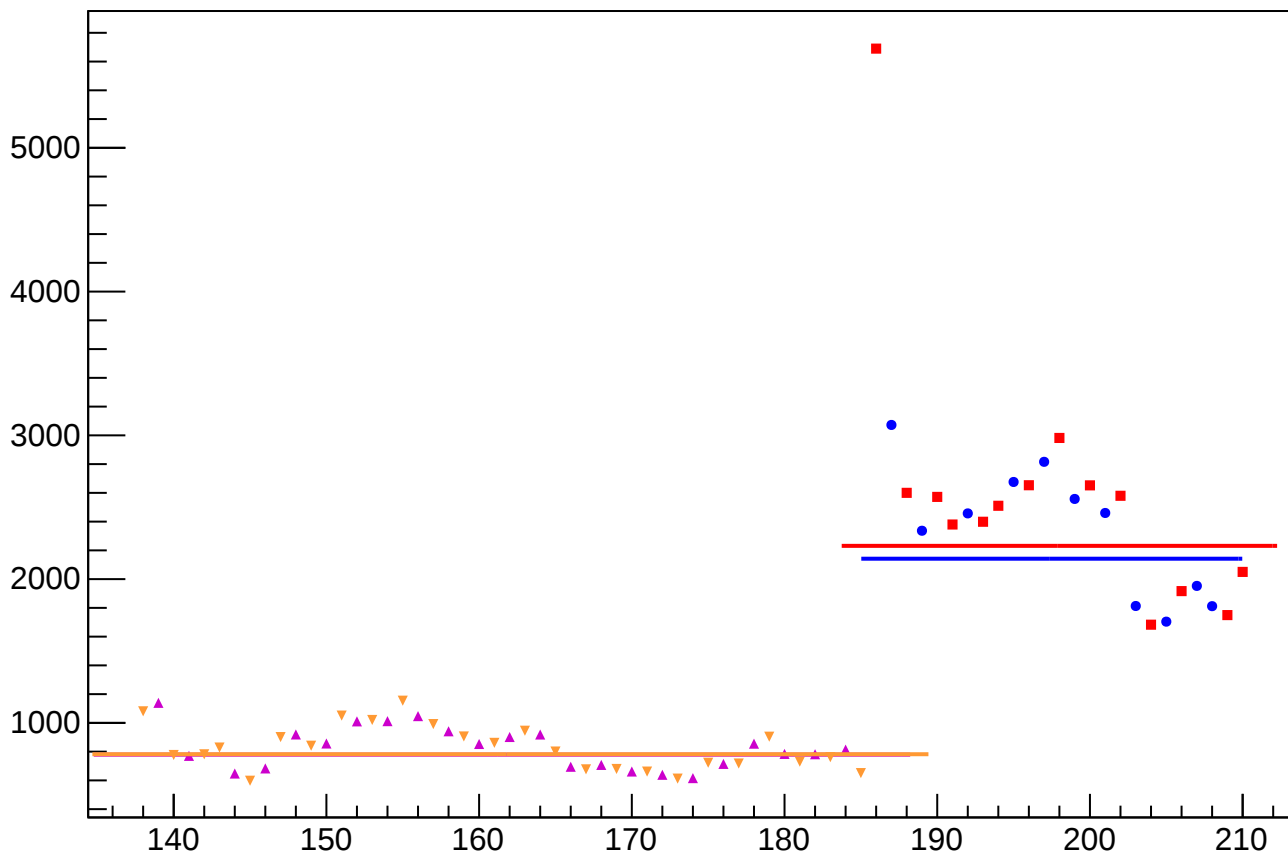
Right: 266.067 ± 540.579 χ^2/NDF : 36.4/24

In: 51.605 ± 184.198 χ^2/NDF : 40.0/33

Out: -736.112 ± 179.868 χ^2/NDF : 94.1/38

All: -351.622 ± 128.689 χ^2/NDF : 143.5/72

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2141.997 $\pm$ 0.555 χ^2 /NDF: 497452.0/10

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2231.426 $\pm$ 0.527 χ^2 /NDF: 875324.9/13

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

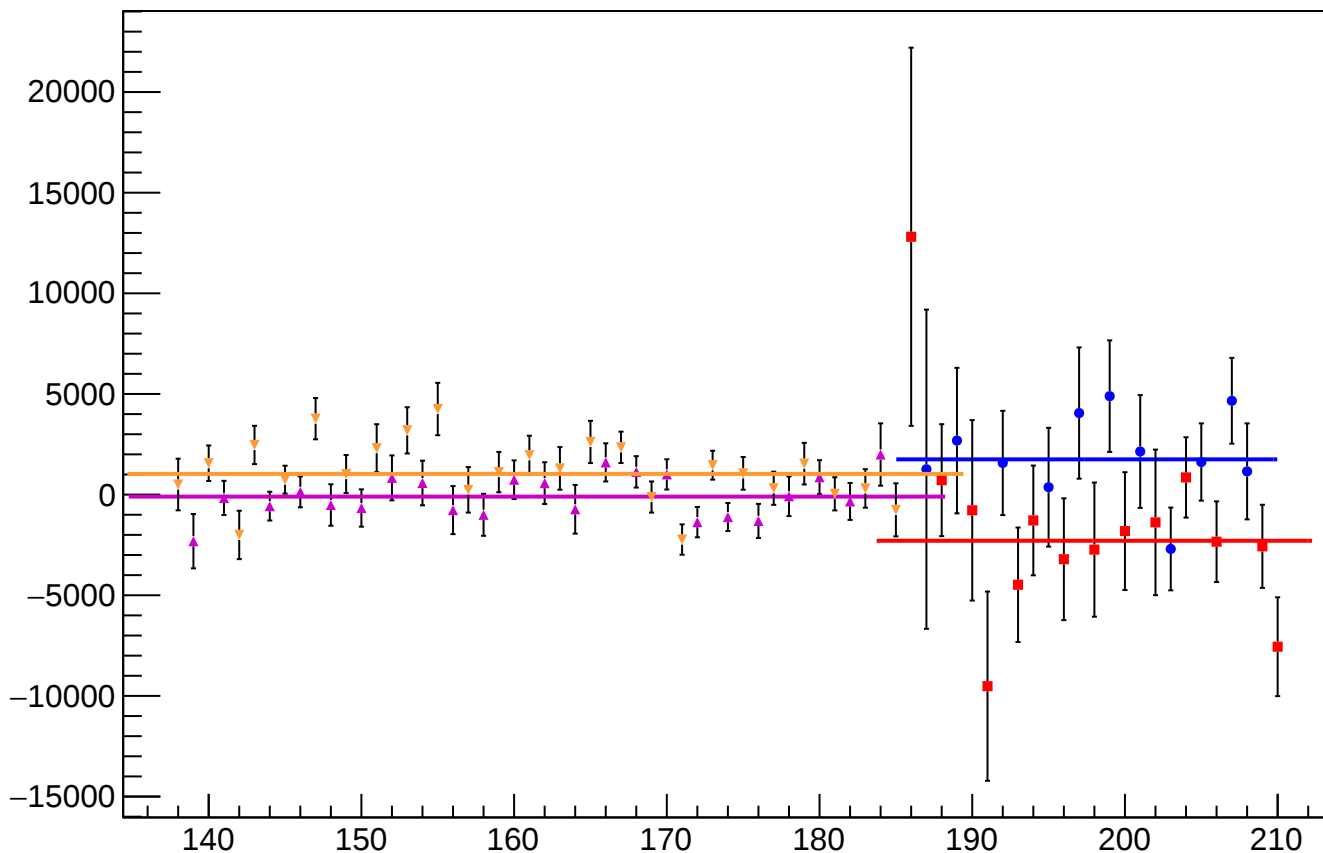
Right: 2189.000 $\pm$ 0.382 χ^2 /NDF: 1386424.8/24

In: 854.071 $\pm$ 0.130 χ^2 /NDF: 7177404.0/33

Out: 866.379 $\pm$ 0.127 χ^2 /NDF: 9123208.1/38

All: 860.371 $\pm$ 0.091 χ^2 /NDF: 16305183.3/72

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1751.860 $\pm$ 787.517 χ^2 /NDF: 8.7/10

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2291.995 $\pm$ 748.082 χ^2 /NDF: 14.3/13

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

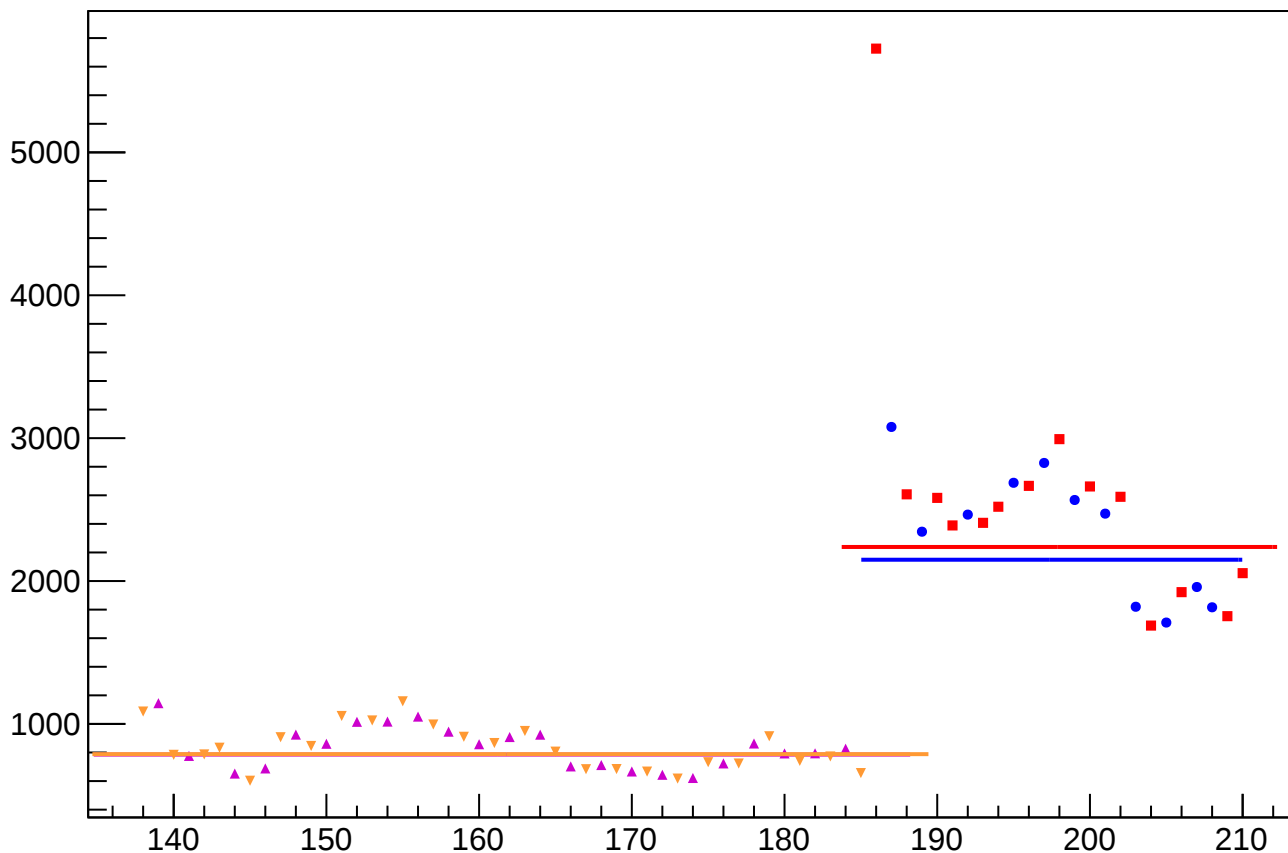
Right: -373.849 $\pm$ 542.379 χ^2 /NDF: 36.8/24

In: 4.144 $\pm$ 185.643 χ^2 /NDF:39.3/33

Out: 833.932 $\pm$ 181.245 χ^2 /NDF:93.0/38

All: 428.986 $\pm$ 129.687 χ^2 /NDF: 142.5/72

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2149.159 $\pm$ 0.557 χ^2 /NDF: 499341.3/10

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2238.474 $\pm$ 0.529 χ^2 /NDF: 879199.0/13

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

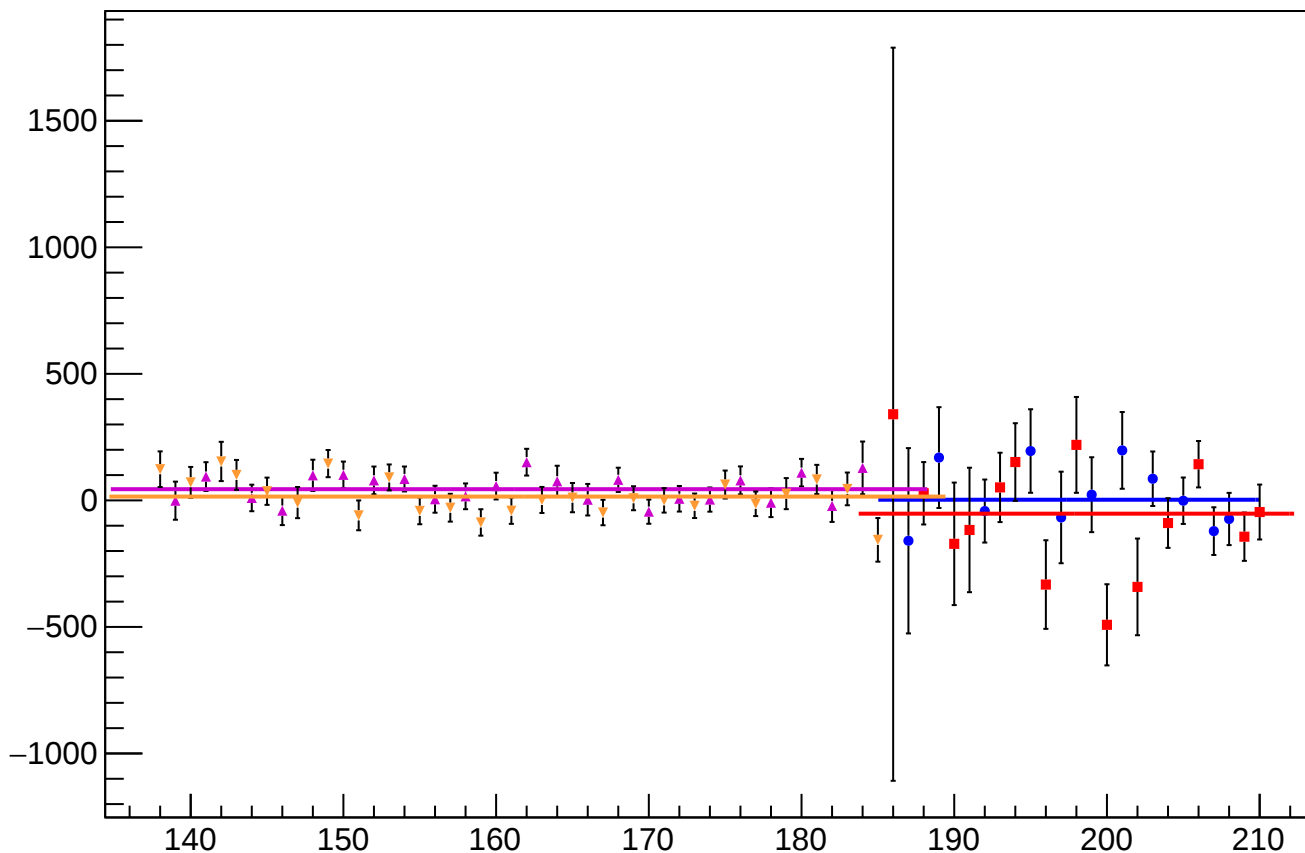
Right: 2196.108 $\pm$ 0.384 χ^2 /NDF: 1392063.3/24

In: 861.269 $\pm$ 0.131 χ^2 /NDF: 7128338.5/33

Out: 873.558 $\pm$ 0.128 χ^2 /NDF: 9066136.3/38

All: 867.561 $\pm$ 0.092 χ^2 /NDF: 16198961.4/72

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 2.621 ± 38.776 $\chi^2/\text{NDF}: 7.1/10$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -52.437 ± 36.765 $\chi^2/\text{NDF}: 23.2/13$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

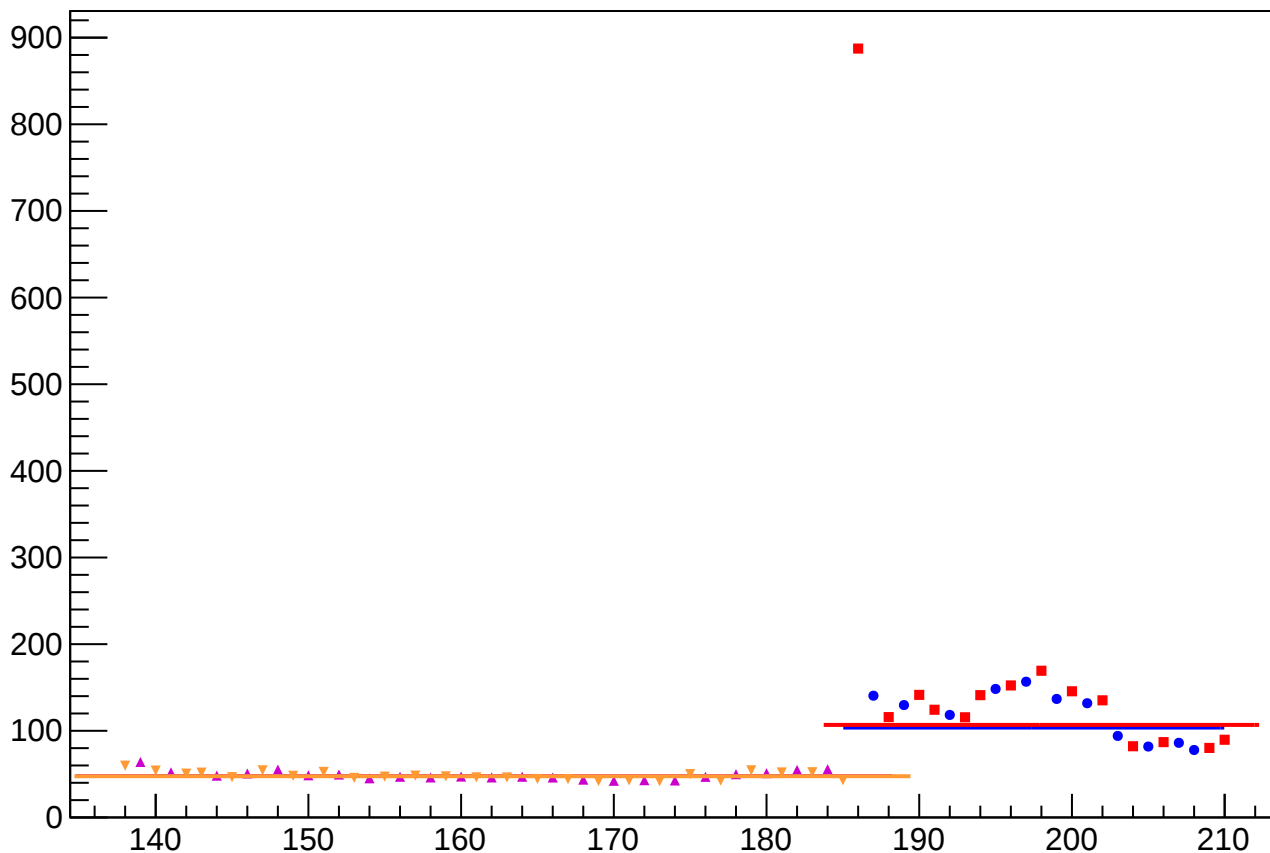
Right: -26.373 ± 26.679 $\chi^2/\text{NDF}: 31.3/24$

In: 40.912 ± 11.051 $\chi^2/\text{NDF}: 30.4/33$

Out: 9.406 ± 10.674 $\chi^2/\text{NDF}: 60.5/38$

All: 24.612 ± 7.678 $\chi^2/\text{NDF}: 95.1/72$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 103.760 $\pm$ 0.027 χ^2 /NDF: 892750.3/10

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 106.804 $\pm$ 0.026 χ^2 /NDF: 1690058.4/13

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

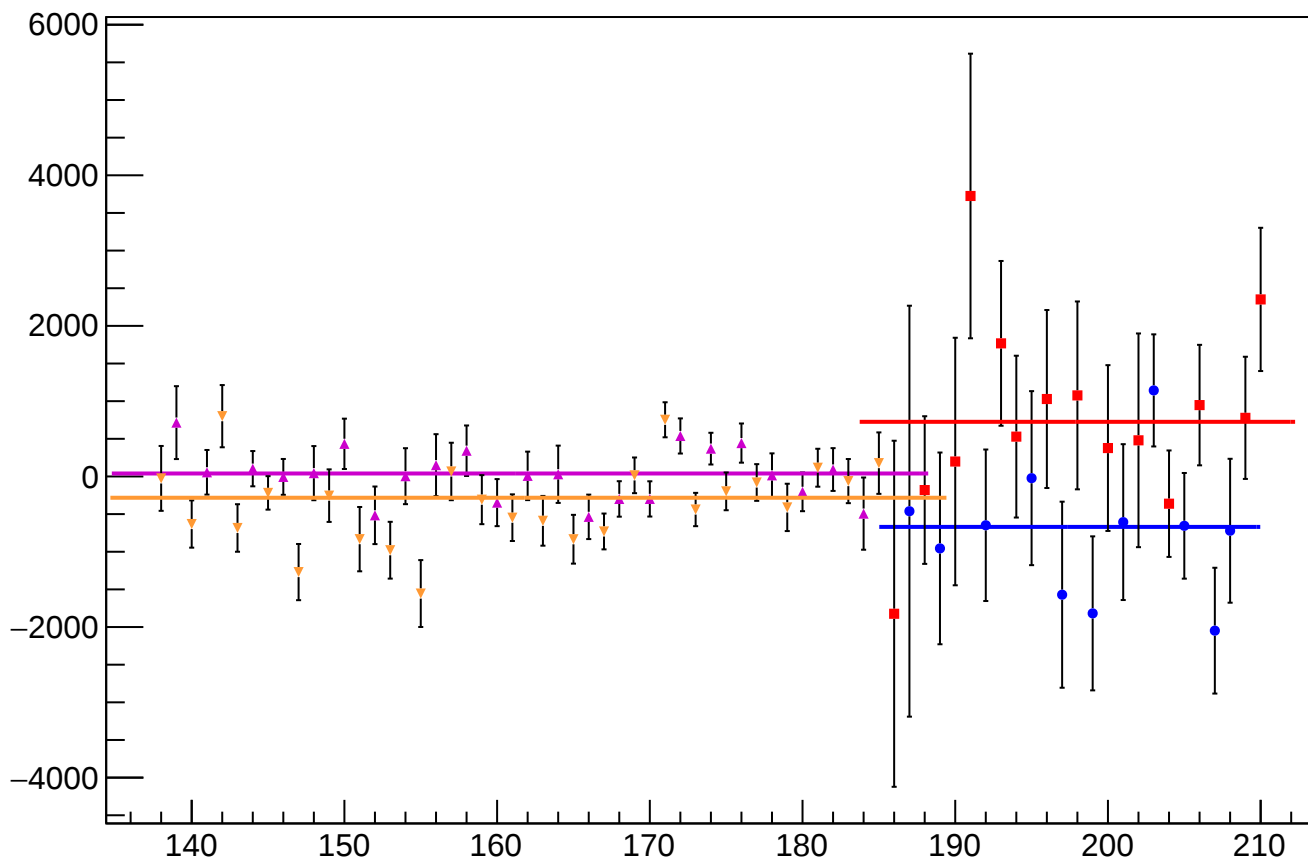
Right: 105.363 $\pm$ 0.019 χ^2 /NDF: 2589300.2/24

In: 52.388 $\pm$ 0.008 χ^2 /NDF:4995411.1/33

Out: 52.578 $\pm$ 0.008 χ^2 /NDF:6754488.6/38

All: 52.486 $\pm$ 0.005 χ^2 /NDF: 11750204.6/72

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -669.979+/-296.247 χ^2/NDF : 10.8/10

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: 725.727+/-283.451 χ^2/NDF : 11.3/13

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

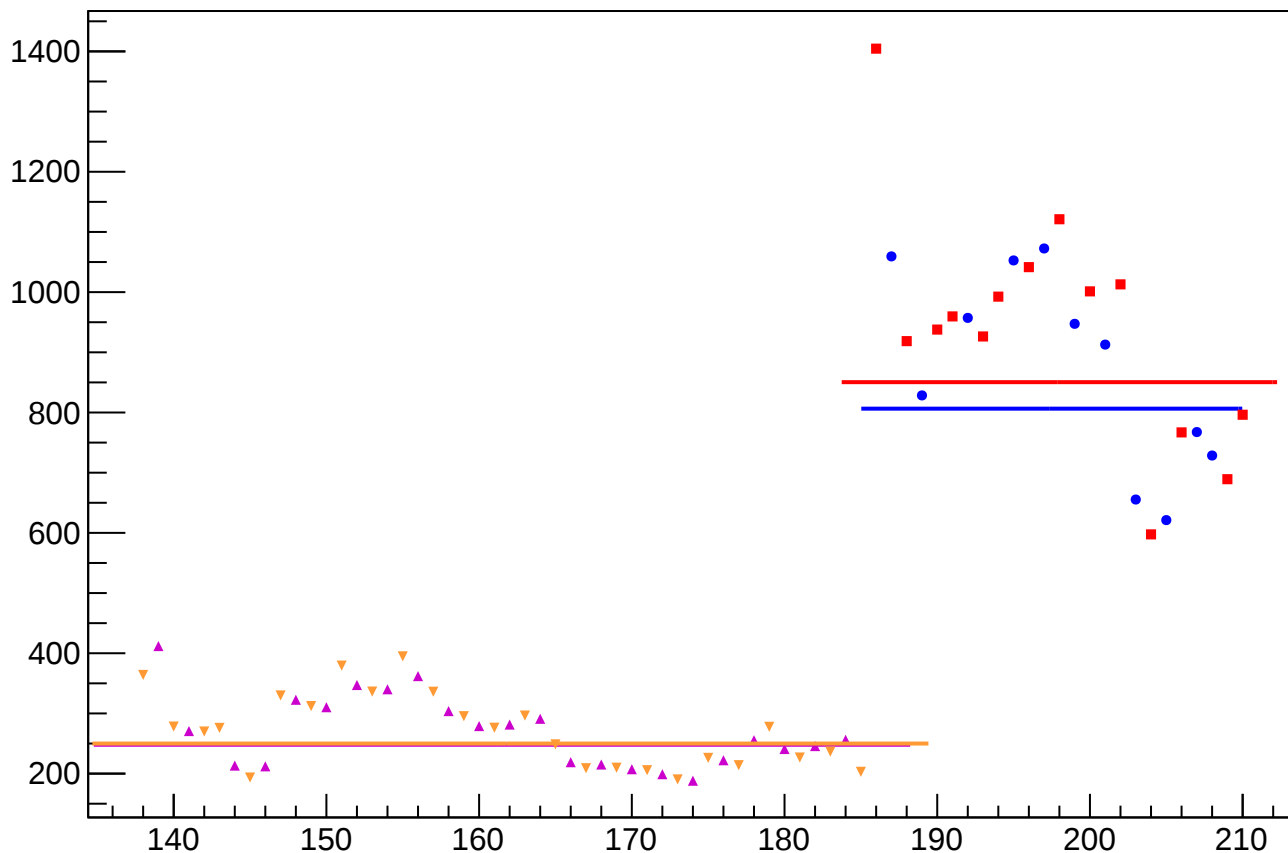
Right: 58.666+/-204.805 χ^2/NDF : 33.7/24

In: 10.796+/-59.520 χ^2/NDF : 43.9/33

Out: -239.975+/-58.409 χ^2/NDF : 89.9/38

All: -116.952+/-41.689 χ^2/NDF : 142.8/72

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 806.398+/-0.209 χ^2/NDF : 544624.7/10

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 850.413+/-0.200 χ^2/NDF : 756189.9/13

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

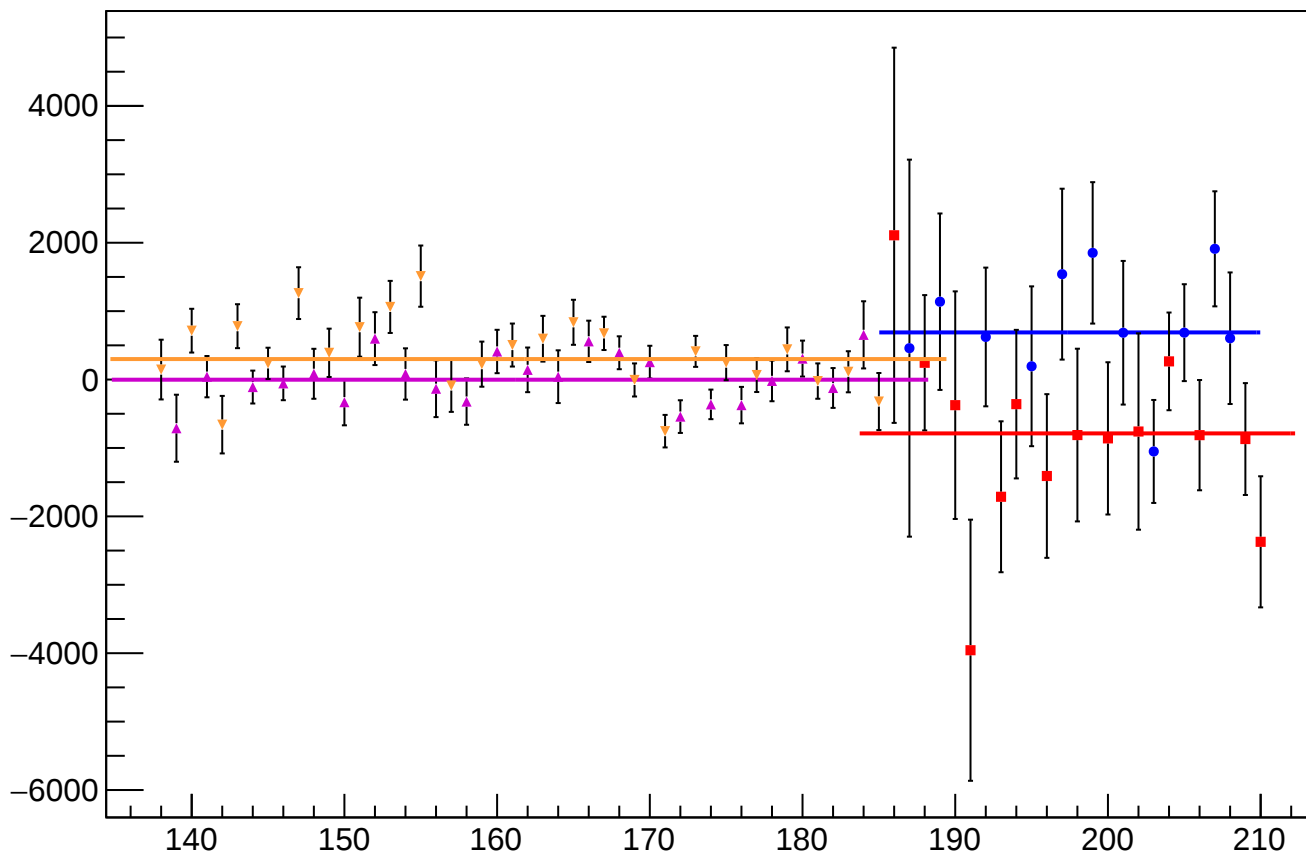
Right: 829.377+/-0.145 χ^2/NDF : 1323863.6/24

In: 270.461+/-0.042 χ^2/NDF : 8776415.3/33

Out: 275.453+/-0.041 χ^2/NDF : 10964334.6/38

All: 273.004+/-0.029 χ^2/NDF : 19747917.9/72

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 689.013 ± 299.116 $\chi^2/\text{NDF}: 9.5/10$

Left Out: 299.562 ± 60.860 $\chi^2/\text{NDF}: 62.5/24$

Right Out: -787.047 ± 286.704 $\chi^2/\text{NDF}: 11.1/13$

Left In: -2.185 ± 62.005 $\chi^2/\text{NDF}: 29.2/22$

Left: 151.501 ± 43.433 $\chi^2/\text{NDF}: 103.7/47$

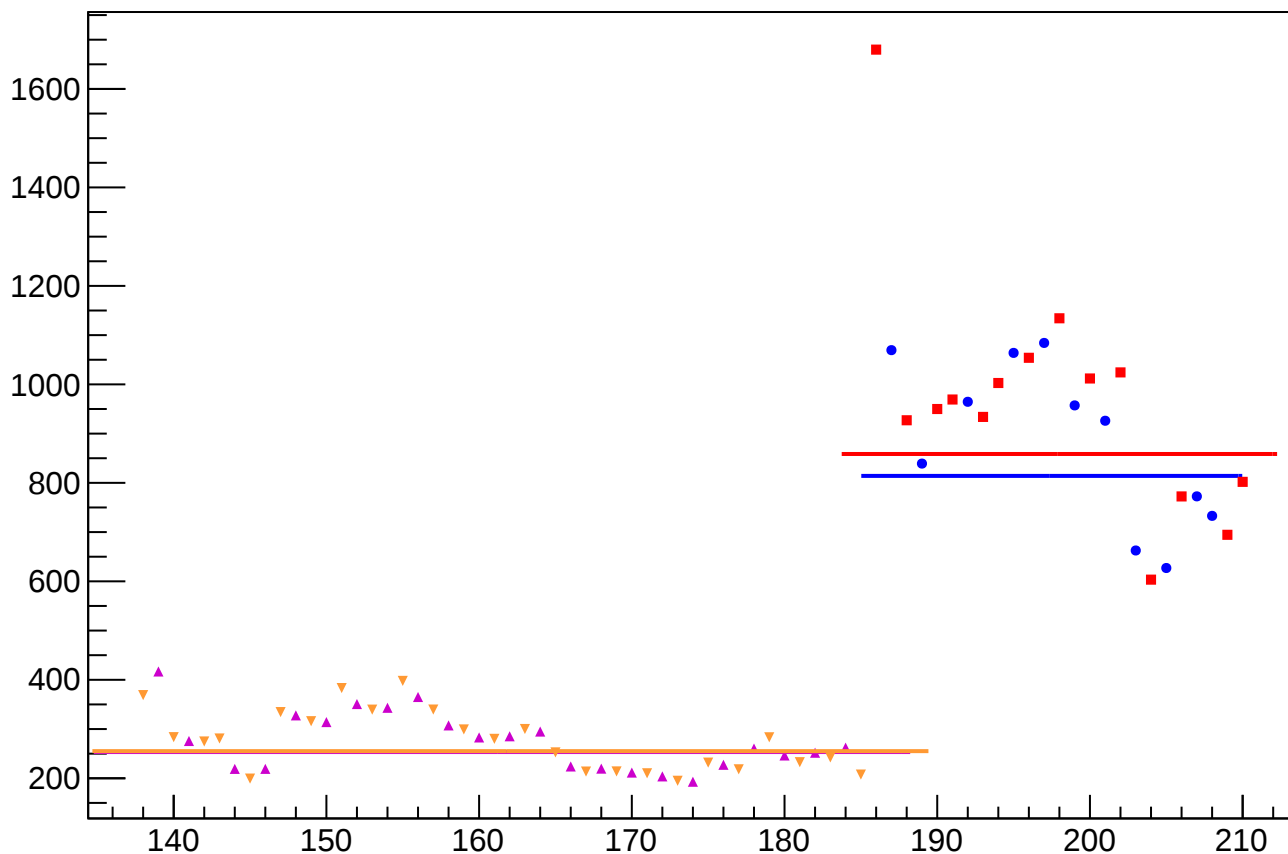
Right: -80.278 ± 206.979 $\chi^2/\text{NDF}: 33.3/24$

In: 26.292 ± 60.714 $\chi^2/\text{NDF}: 43.8/33$

Out: 252.711 ± 59.533 $\chi^2/\text{NDF}: 87.3/38$

All: 141.725 ± 42.508 $\chi^2/\text{NDF}: 138.2/72$

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 814.123+/-0.212 χ^2/NDF : 547767.8/10

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 858.628+/-0.203 χ^2/NDF : 825424.8/13

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

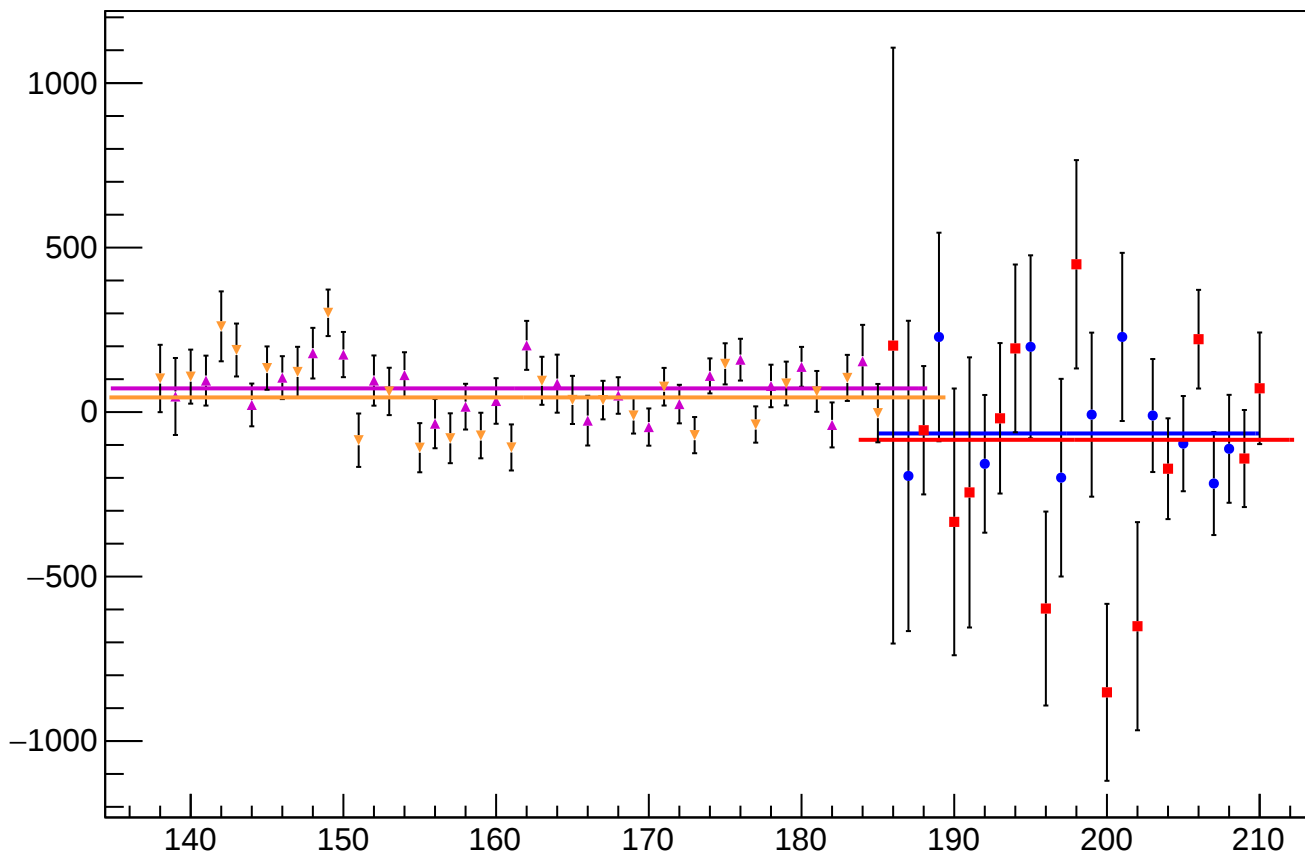
Right: 837.318+/-0.146 χ^2/NDF : 1396267.9/24

In: 276.394+/-0.043 χ^2/NDF : 8630820.3/33

Out: 281.156+/-0.042 χ^2/NDF : 10846868.9/38

All: 278.822+/-0.030 χ^2/NDF : 19483962.8/72

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -65.006 ± 62.971 $\chi^2/\text{NDF}: 4.8/10$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -84.290 ± 59.022 $\chi^2/\text{NDF}: 24.6/13$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

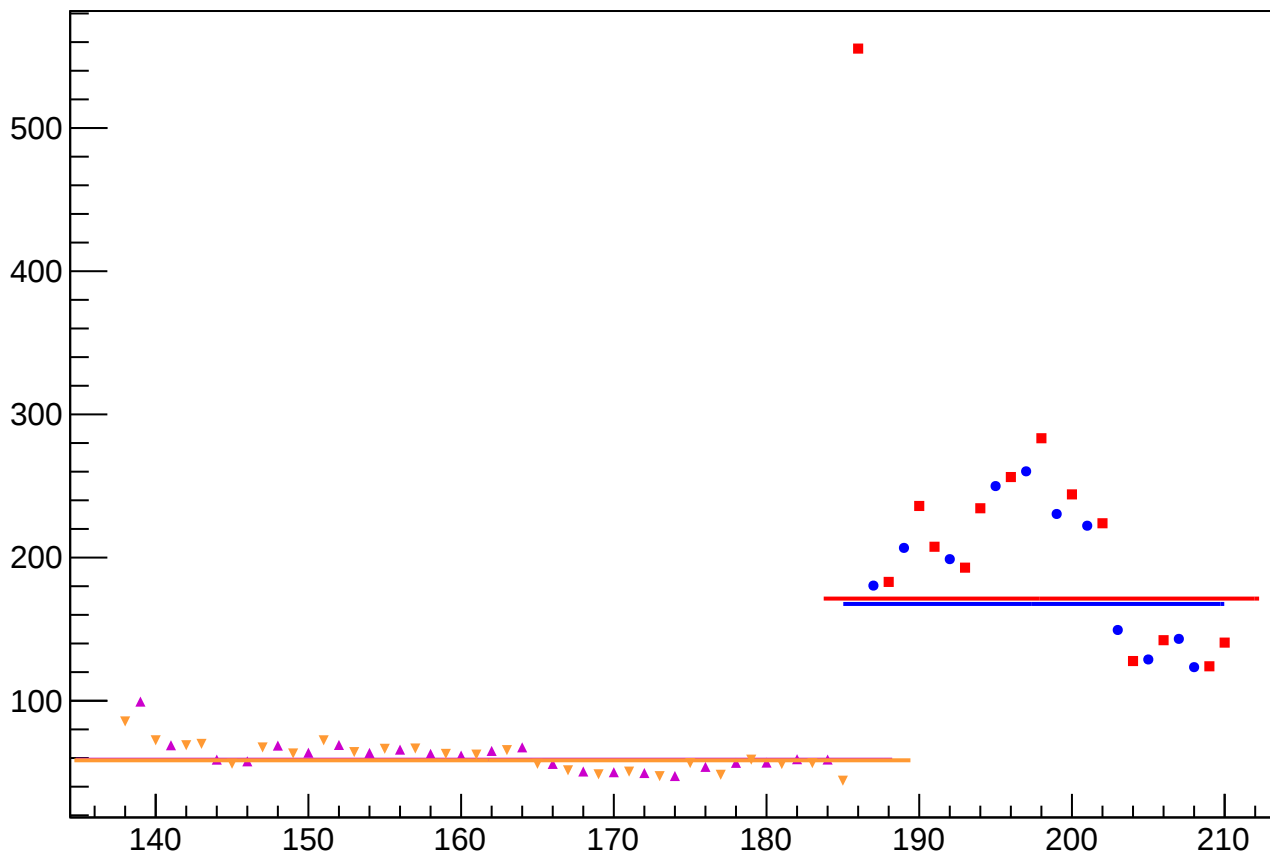
Right: -75.271 ± 43.063 $\chi^2/\text{NDF}: 29.4/24$

In: 65.320 ± 13.942 $\chi^2/\text{NDF}: 34.6/33$

Out: 37.899 ± 13.460 $\chi^2/\text{NDF}: 83.1/38$

All: 51.127 ± 9.683 $\chi^2/\text{NDF}: 119.6/72$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 167.613 $\pm$ 0.045 χ^2 /NDF: 1019551.4/10

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 171.362 $\pm$ 0.042 χ^2 /NDF: 1699588.9/13

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

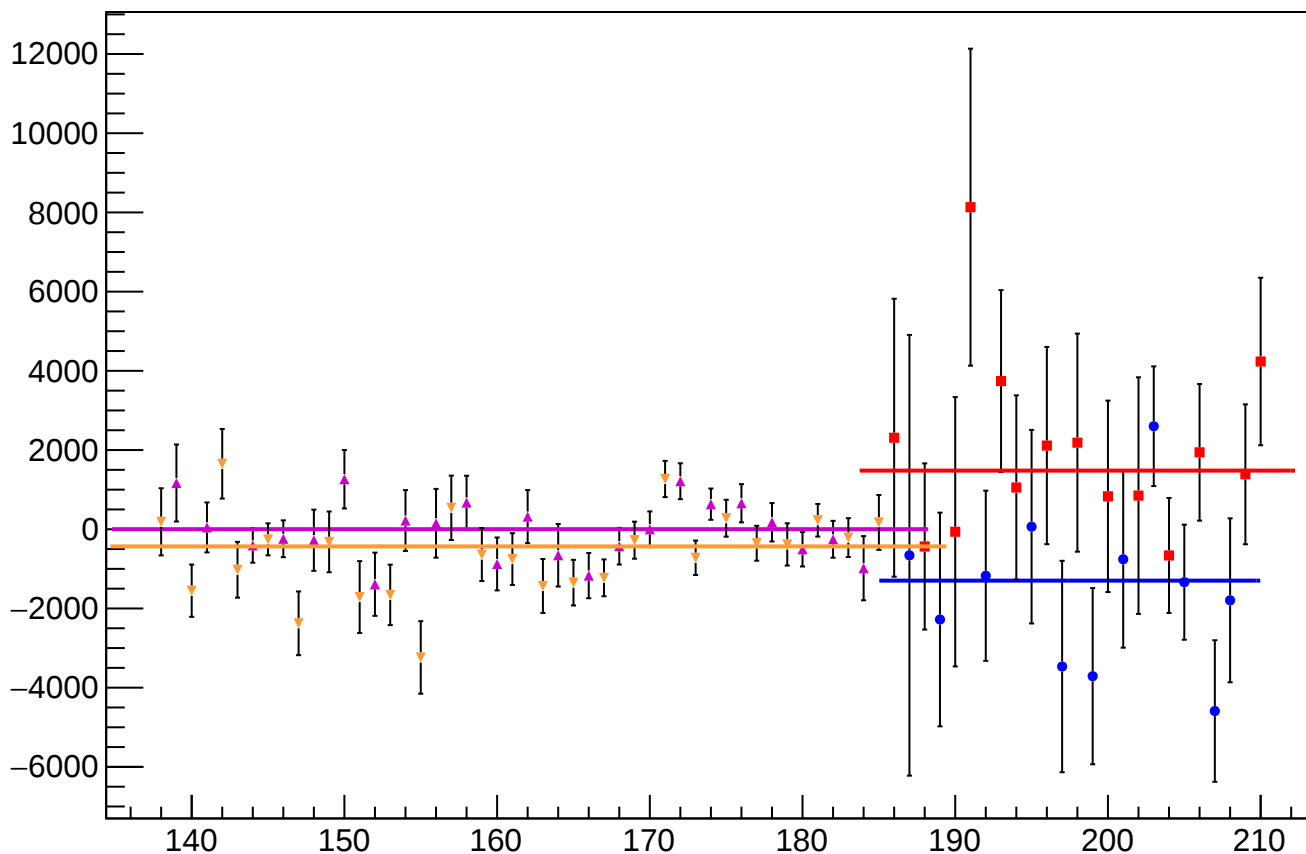
Right: 169.609 $\pm$ 0.030 χ^2 /NDF: 2722914.2/24

In: 64.171 $\pm$ 0.010 χ^2 /NDF: 7374503.1/33

Out: 64.297 $\pm$ 0.010 χ^2 /NDF: 9432020.7/38

All: 64.236 $\pm$ 0.007 χ^2 /NDF: 16806607.2/72

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1297.355 ± 625.577 $\chi^2/\text{NDF}: 12.5/10$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1481.420 ± 601.604 $\chi^2/\text{NDF}: 9.1/13$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

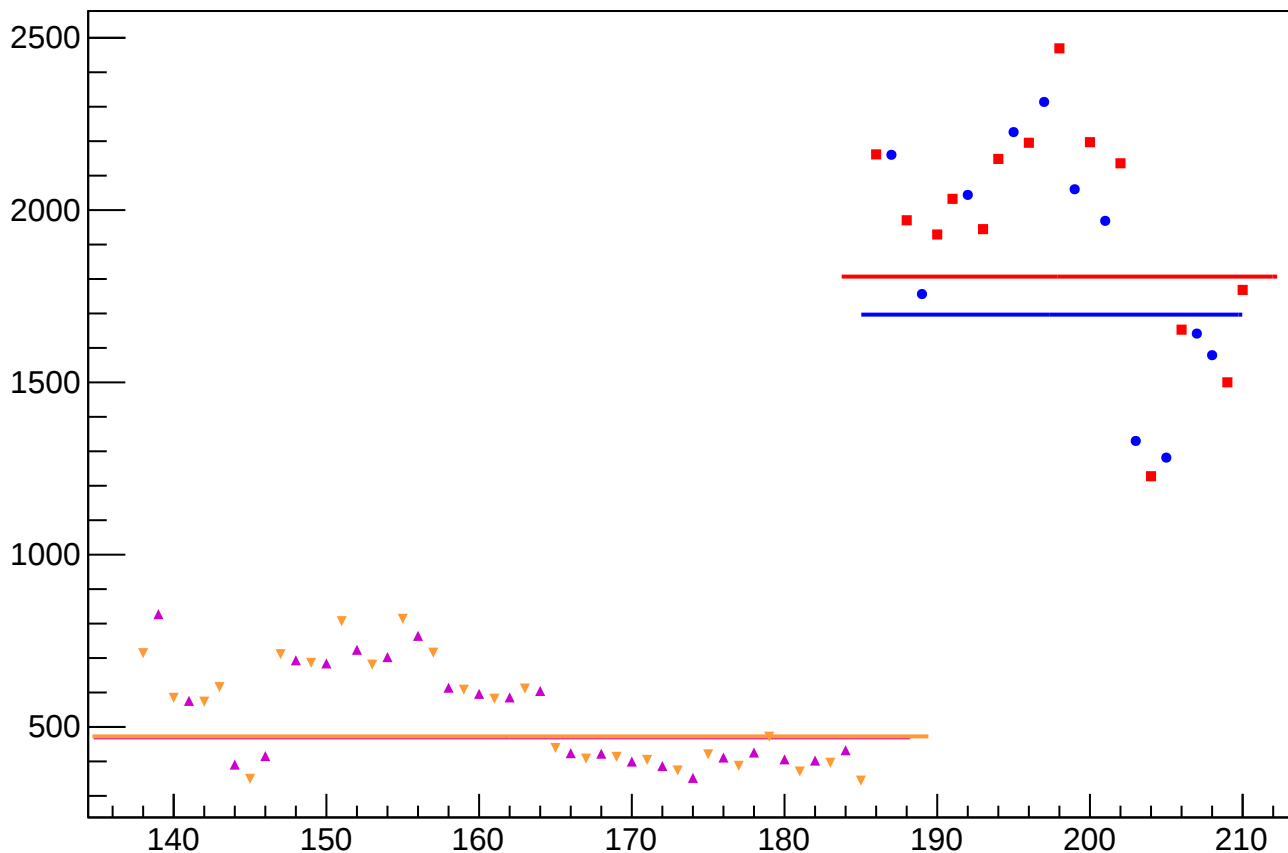
Right: 146.294 ± 433.626 $\chi^2/\text{NDF}: 31.8/24$

In: -41.692 ± 114.492 $\chi^2/\text{NDF}: 48.9/33$

Out: -365.535 ± 112.394 $\chi^2/\text{NDF}: 78.2/38$

All: -206.607 ± 80.206 $\chi^2/\text{NDF}: 131.2/72$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1696.639+/-0.442 χ^2/NDF : 640591.1/10

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1806.977+/-0.425 χ^2/NDF : 728084.8/13

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

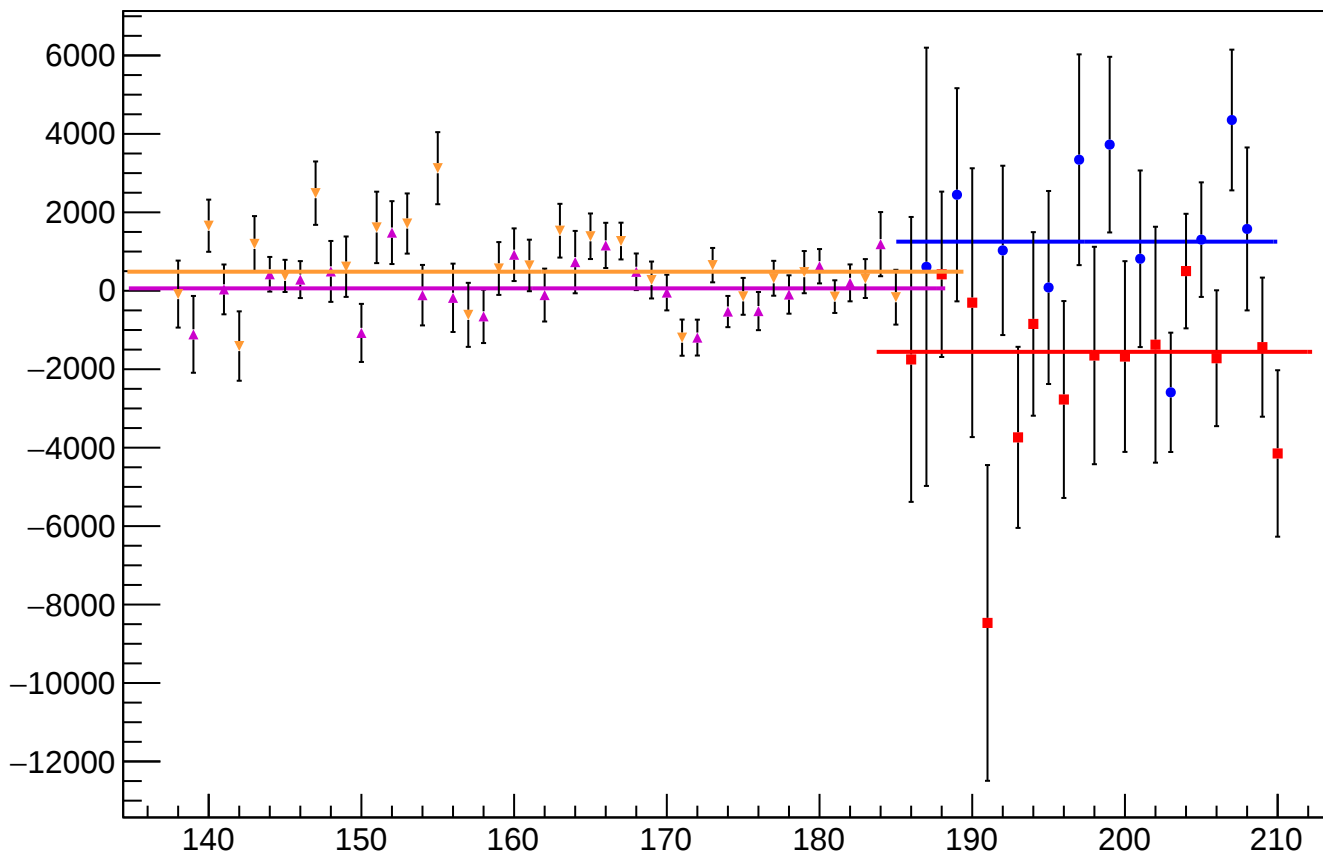
Right: 1753.963+/-0.307 χ^2/NDF : 1401000.5/24

In: 510.856+/-0.081 χ^2/NDF : 10192368.7/33

Out: 519.144+/-0.079 χ^2/NDF : 12732603.6/38

All: 515.077+/-0.057 χ^2/NDF : 22930308.7/72

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1252.548 $\pm$ 629.213 χ^2 /NDF: 11.7/10

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1556.717 $\pm$ 605.355 χ^2 /NDF: 8.7/13

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

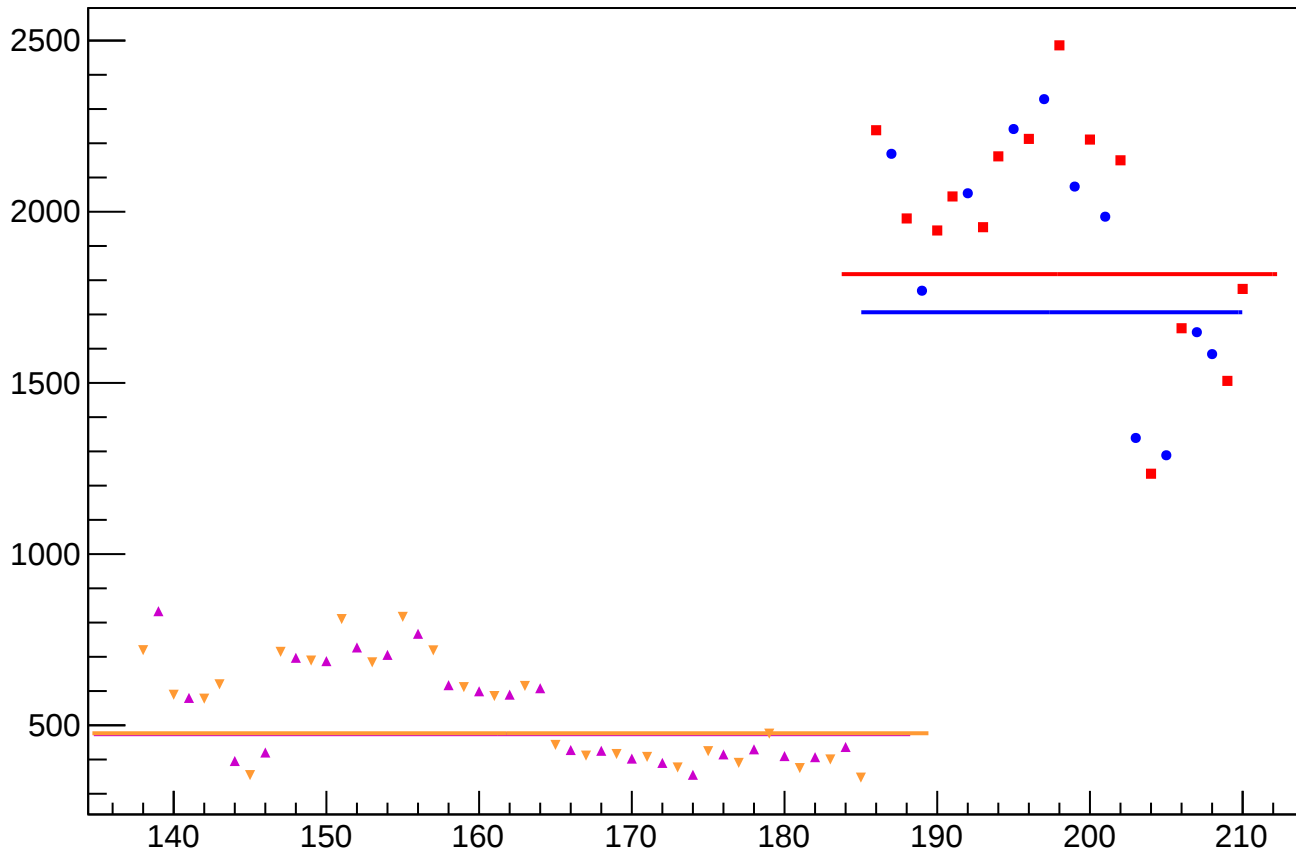
Right: -206.353 $\pm$ 436.242 χ^2 /NDF: 30.7/24

In: 101.867 $\pm$ 115.455 χ^2 /NDF:46.3/33

Out: 415.057 $\pm$ 113.308 χ^2 /NDF:75.7/38

All: 261.401 $\pm$ 80.869 χ^2 /NDF: 125.8/72

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1706.408 $\pm$ 0.445 χ^2 /NDF: 642200.2/10

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1817.759 $\pm$ 0.428 χ^2 /NDF: 738650.4/13

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

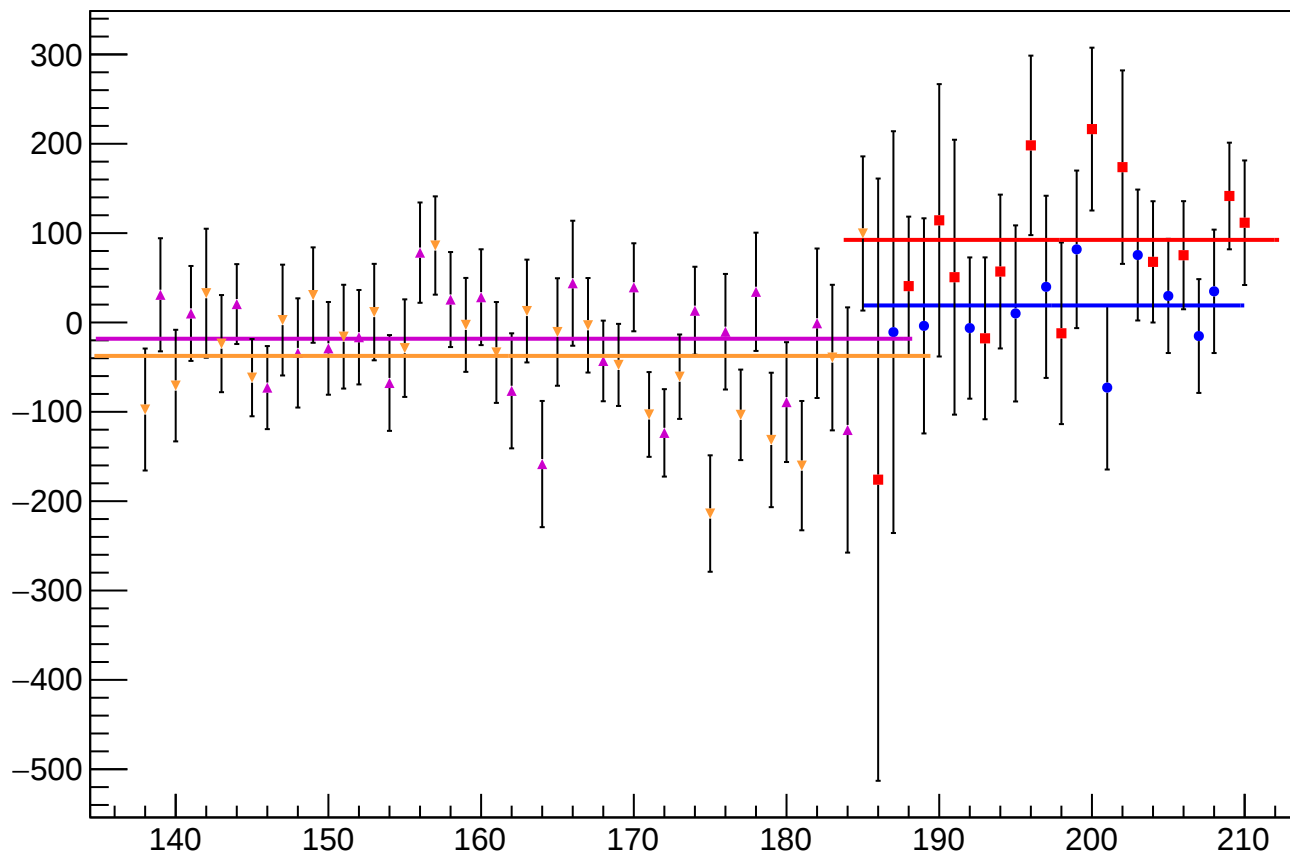
Right: 1764.234 $\pm$ 0.308 χ^2 /NDF: 1413378.8/24

In: 515.478 $\pm$ 0.082 χ^2 /NDF: 10143787.7/33

Out: 523.674 $\pm$ 0.080 χ^2 /NDF: 12682985.1/38

All: 519.653 $\pm$ 0.057 χ^2 /NDF: 22831907.0/72

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 19.057 ± 25.133 χ^2/NDF : 2.7/10

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 92.438 ± 22.971 χ^2/NDF : 8.4/13

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

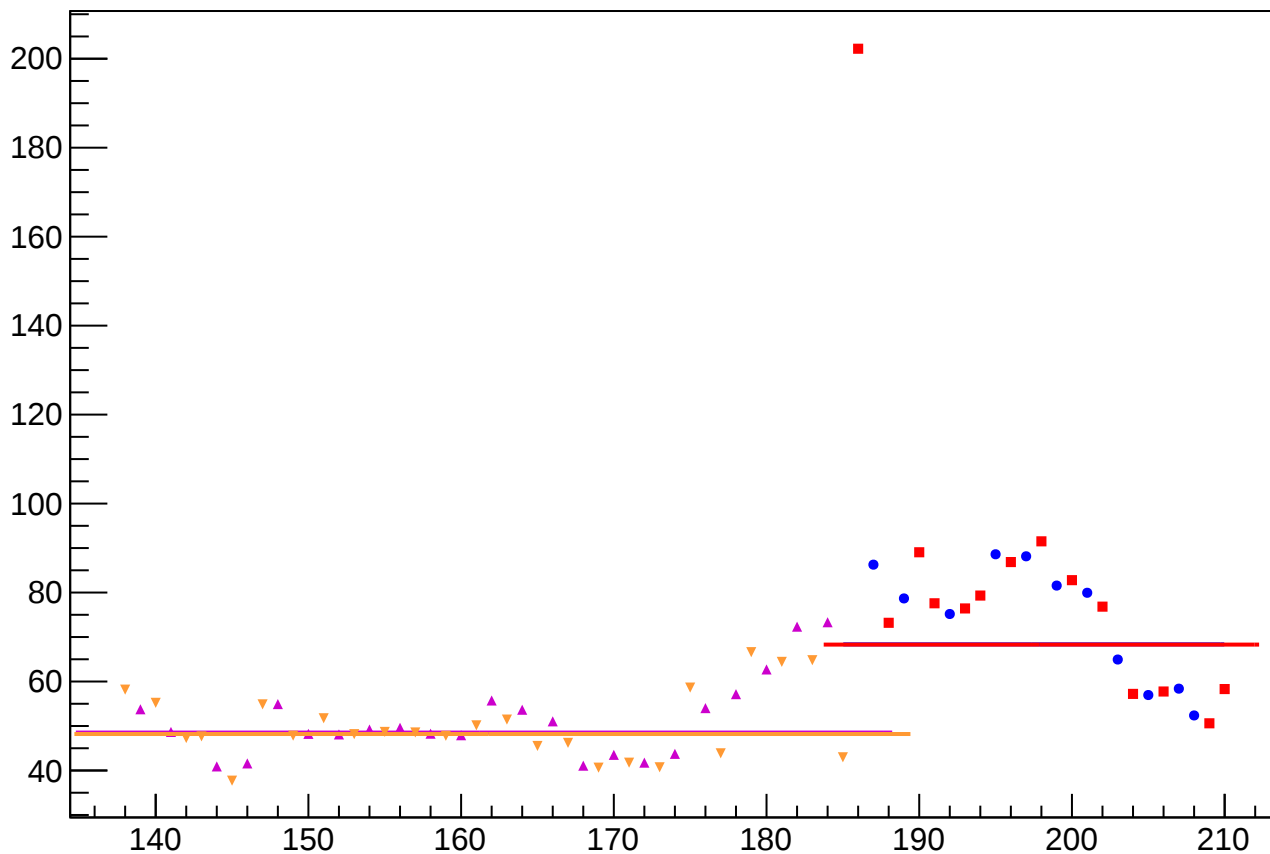
Right: 59.039 ± 16.956 χ^2/NDF : 15.7/24

In: -11.491 ± 10.672 χ^2/NDF : 27.5/33

Out: -11.790 ± 10.204 χ^2/NDF : 64.5/38

All: -11.647 ± 7.375 χ^2/NDF : 92.0/72

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 68.351 $\pm$ 0.018 χ^2/NDF : 502950.6/10

Left Out: 48.200 $\pm$ 0.008 χ^2/NDF : 750196.2/24

Right Out: 68.299 $\pm$ 0.016 χ^2/NDF : 983677.6/13

Left In: 48.527 $\pm$ 0.008 χ^2/NDF : 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2/NDF : 1426333.4/47

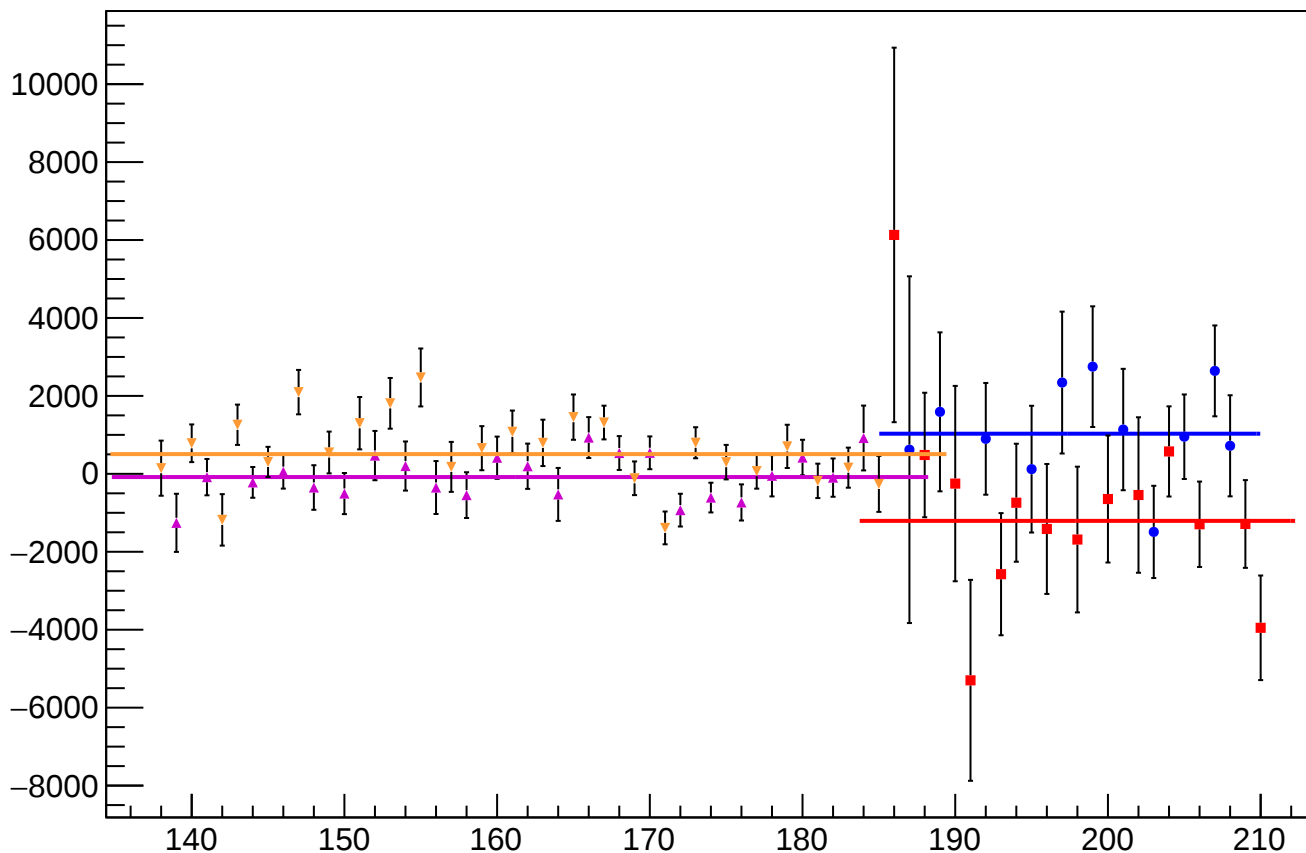
Right: 68.323 $\pm$ 0.012 χ^2/NDF : 1486632.9/24

In: 52.101 $\pm$ 0.008 χ^2/NDF : 2198245.4/33

Out: 52.166 $\pm$ 0.007 χ^2/NDF : 2962908.7/38

All: 52.135 $\pm$ 0.005 χ^2/NDF : 5161192.4/72

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1030.022+/-439.358 χ^2/NDF : 8.7/10

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1206.790+/-415.714 χ^2/NDF : 13.8/13

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

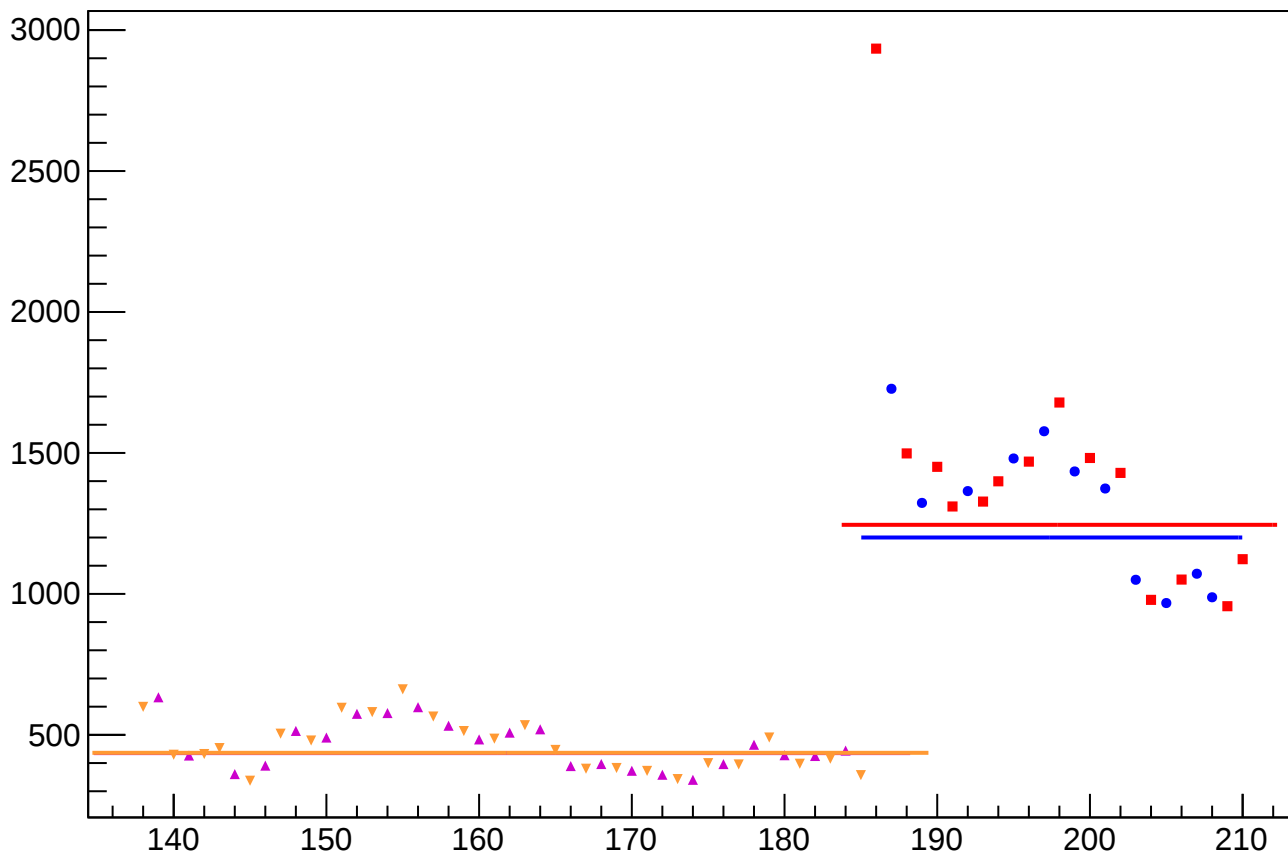
Right: -150.186+/-301.967 χ^2/NDF : 36.2/24

In: -21.301+/-102.984 χ^2/NDF : 40.1/33

Out: 406.280+/-100.405 χ^2/NDF : 95.5/38

All: 197.911+/-71.891 χ^2/NDF : 144.5/72

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1200.108 $\pm$ 0.311 χ^2 /NDF: 479375.7/10

Left Out: 436.301 $\pm$ 0.073 χ^2 /NDF: 1179348.4/24

Right Out: 1245.054 $\pm$ 0.294 χ^2 /NDF: 858381.3/13

Left In: 435.275 $\pm$ 0.075 χ^2 /NDF: 1027713.1/22

Left: 435.800 $\pm$ 0.052 χ^2 /NDF: 2207157.7/47

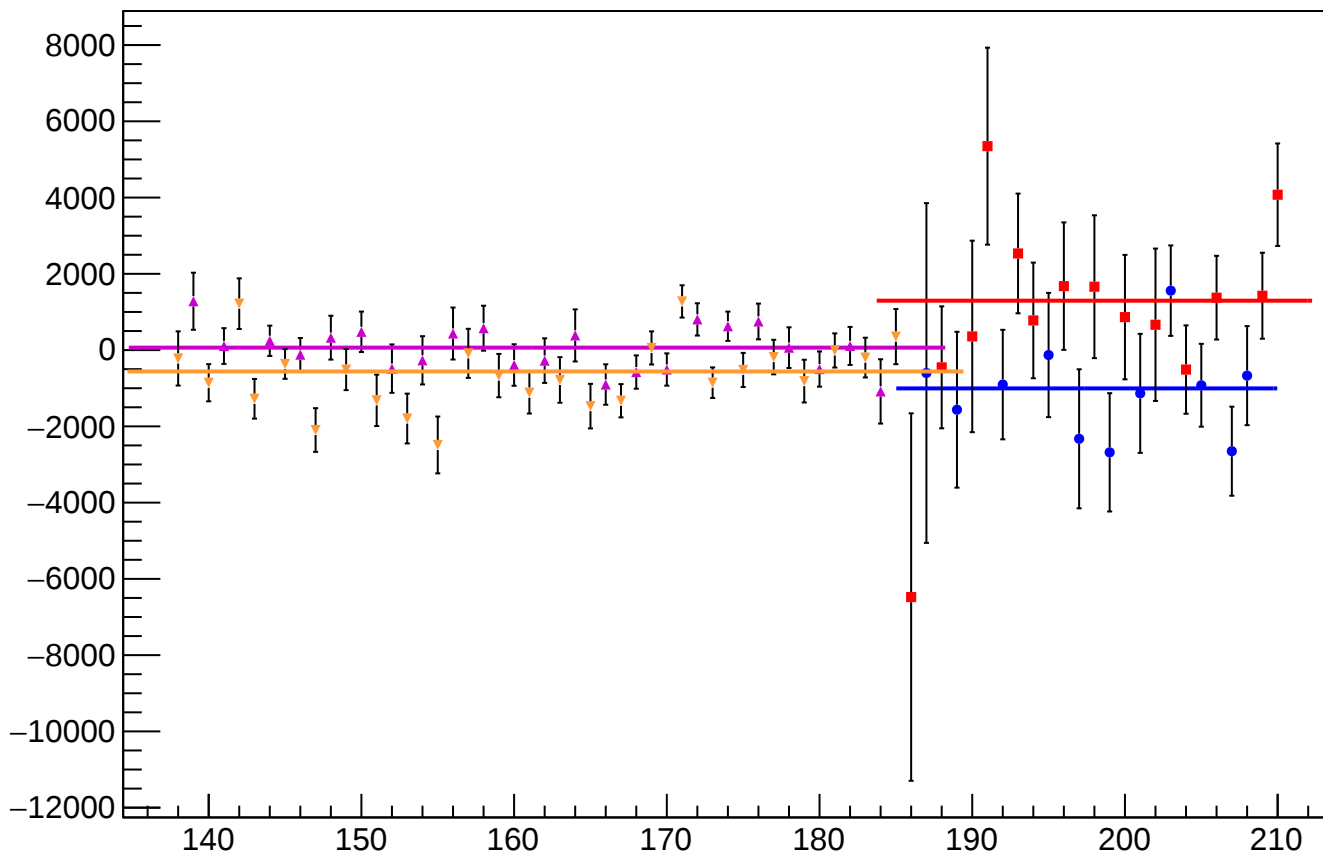
Right: 1223.823 $\pm$ 0.214 χ^2 /NDF: 1348800.6/24

In: 477.296 $\pm$ 0.073 χ^2 /NDF: 7234854.3/33

Out: 483.479 $\pm$ 0.071 χ^2 /NDF: 9165748.3/38

All: 480.466 $\pm$ 0.051 χ^2 /NDF: 16404298.0/72

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1004.605 $\pm$ 440.126 χ^2 /NDF: 8.8/10

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 1296.107 $\pm$ 416.399 χ^2 /NDF: 14.1/13

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

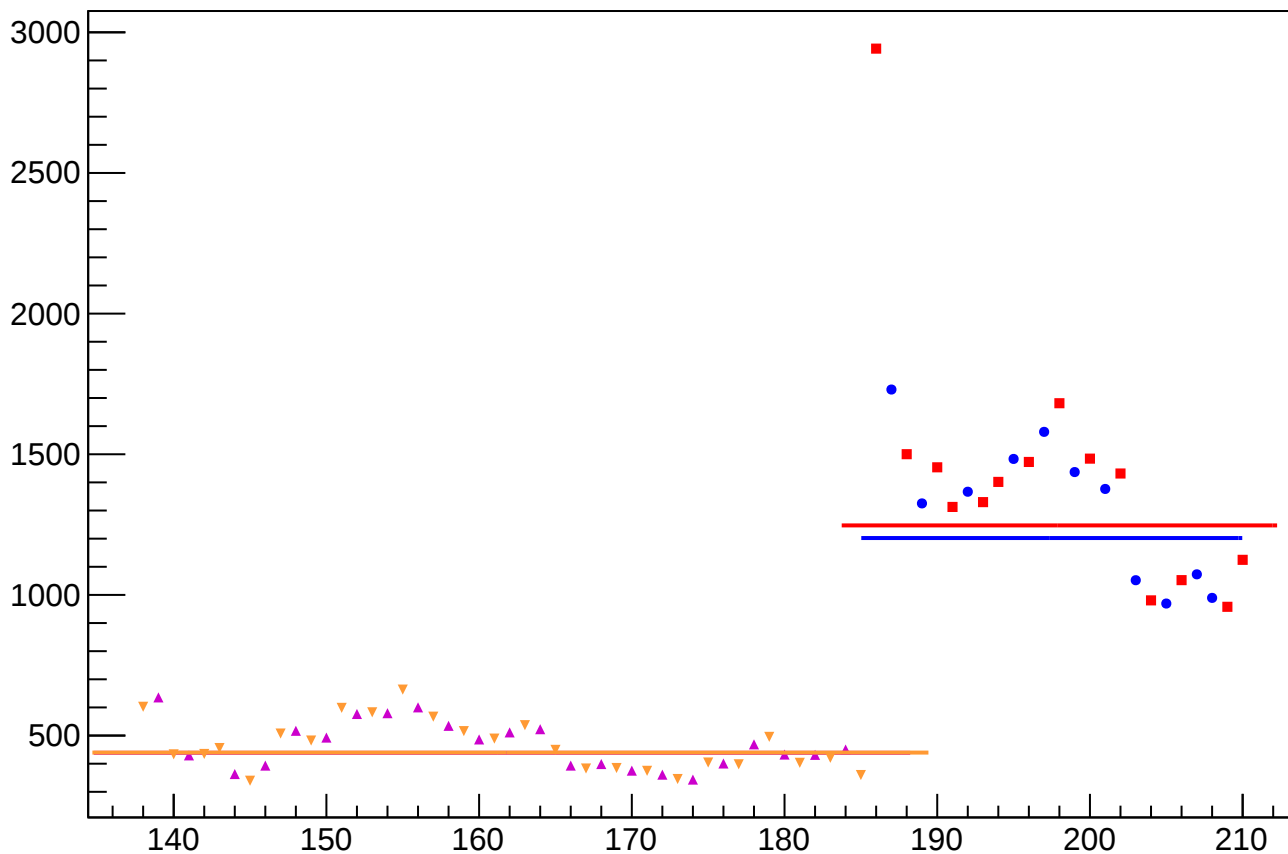
Right: 209.437 $\pm$ 302.479 χ^2 /NDF: 37.4/24

In: 5.235 $\pm$ 103.703 χ^2 /NDF:39.6/33

Out: -451.249 $\pm$ 101.090 χ^2 /NDF:94.6/38

All: -228.831 $\pm$ 72.388 χ^2 /NDF: 144.1/72

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1202.206 $\pm$ 0.311 χ^2 /NDF: 479548.4/10

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1247.083 $\pm$ 0.294 χ^2 /NDF: 859088.2/13

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF: 1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

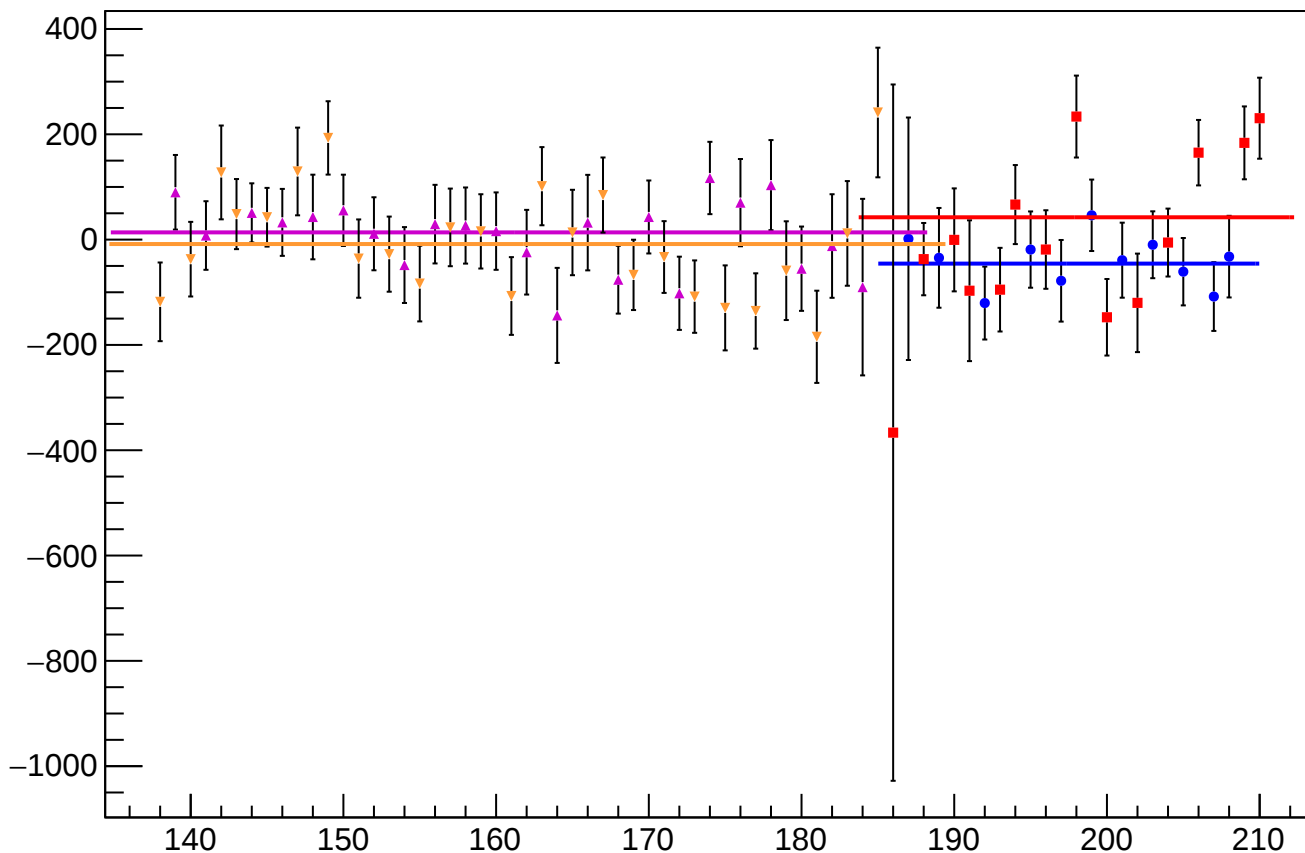
Right: 1225.887 $\pm$ 0.214 χ^2 /NDF: 1349608.9/24

In: 480.944 $\pm$ 0.073 χ^2 /NDF: 7179413.0/33

Out: 487.123 $\pm$ 0.071 χ^2 /NDF: 9101491.1/38

All: 484.112 $\pm$ 0.051 χ^2 /NDF: 16284544.2/72

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -45.571 ± 22.341 χ^2/NDF : 4.7/10

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 42.406 ± 21.146 χ^2/NDF : 37.3/13

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

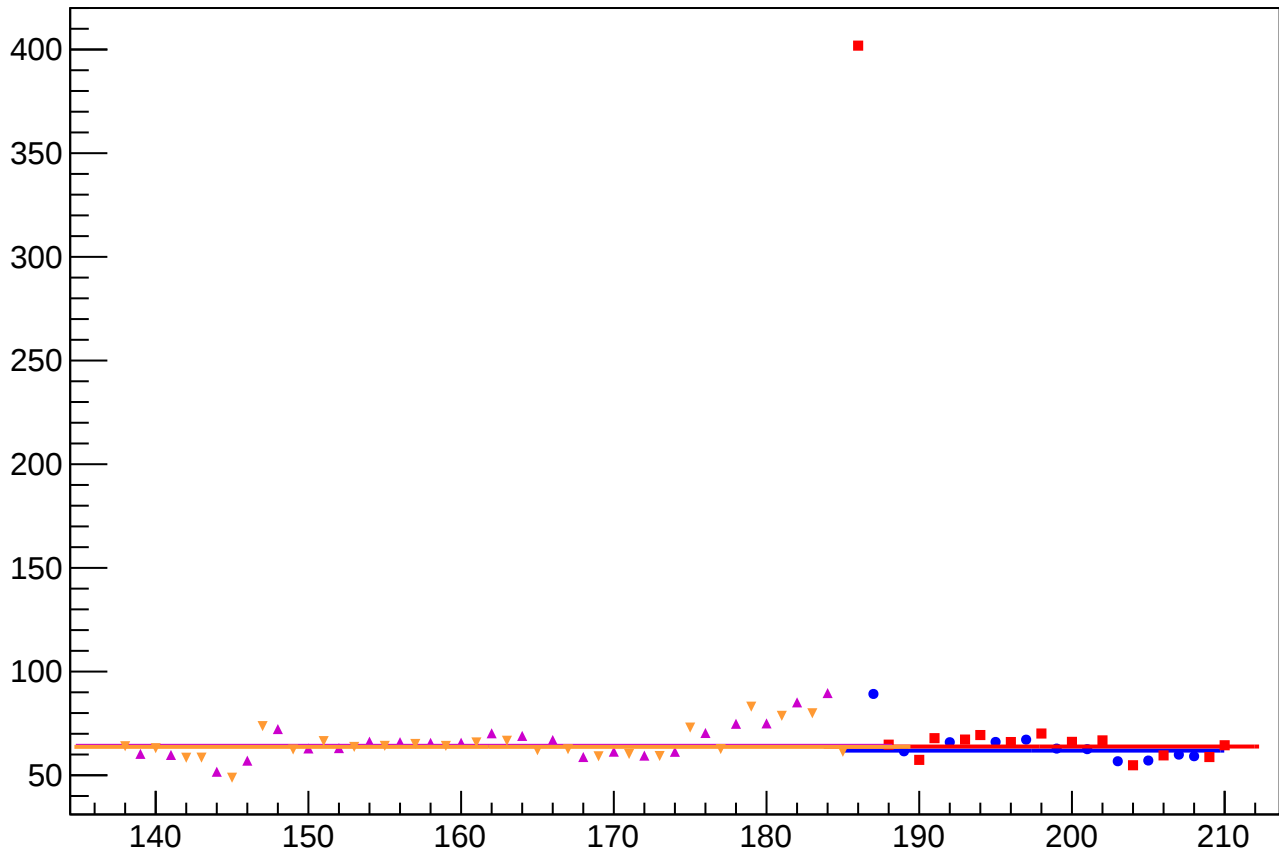
Right: 0.833 ± 15.358 χ^2/NDF : 50.1/24

In: -5.507 ± 12.723 χ^2/NDF : 25.7/33

Out: 8.498 ± 12.199 χ^2/NDF : 82.7/38

All: 1.790 ± 8.805 χ^2/NDF : 109.1/72

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.886 $\pm$ 0.016 χ^2 /NDF: 80055.3/10

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 63.848 $\pm$ 0.015 χ^2 /NDF: 626102.0/13

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

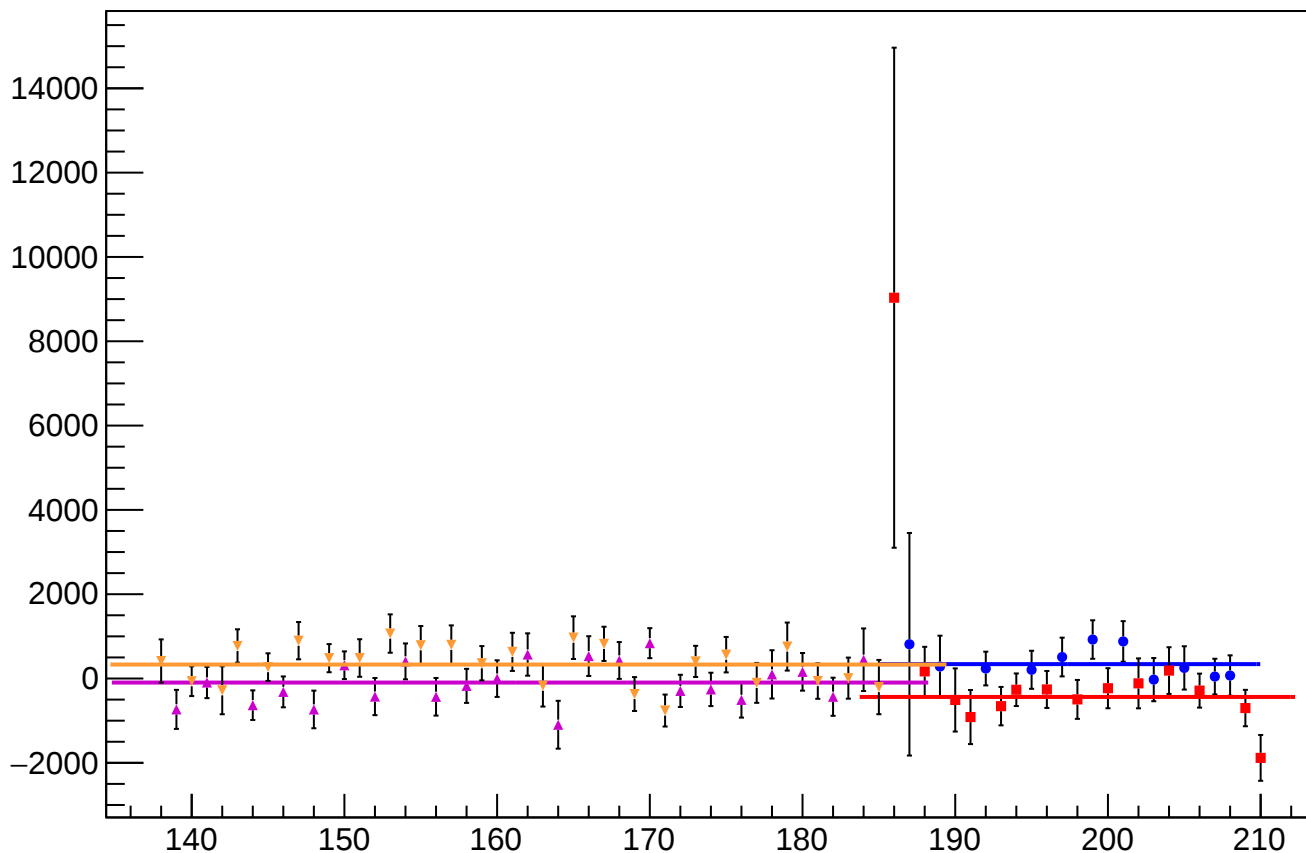
Right: 62.921 $\pm$ 0.011 χ^2 /NDF: 714298.6/24

In: 63.442 $\pm$ 0.009 χ^2 /NDF: 524091.8/33

Out: 63.747 $\pm$ 0.009 χ^2 /NDF: 1074610.6/38

All: 63.601 $\pm$ 0.006 χ^2 /NDF: 1599299.6/72

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 341.333 ± 149.763 χ^2/NDF : 4.6/10

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -437.254 ± 136.043 χ^2/NDF : 14.1/13

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

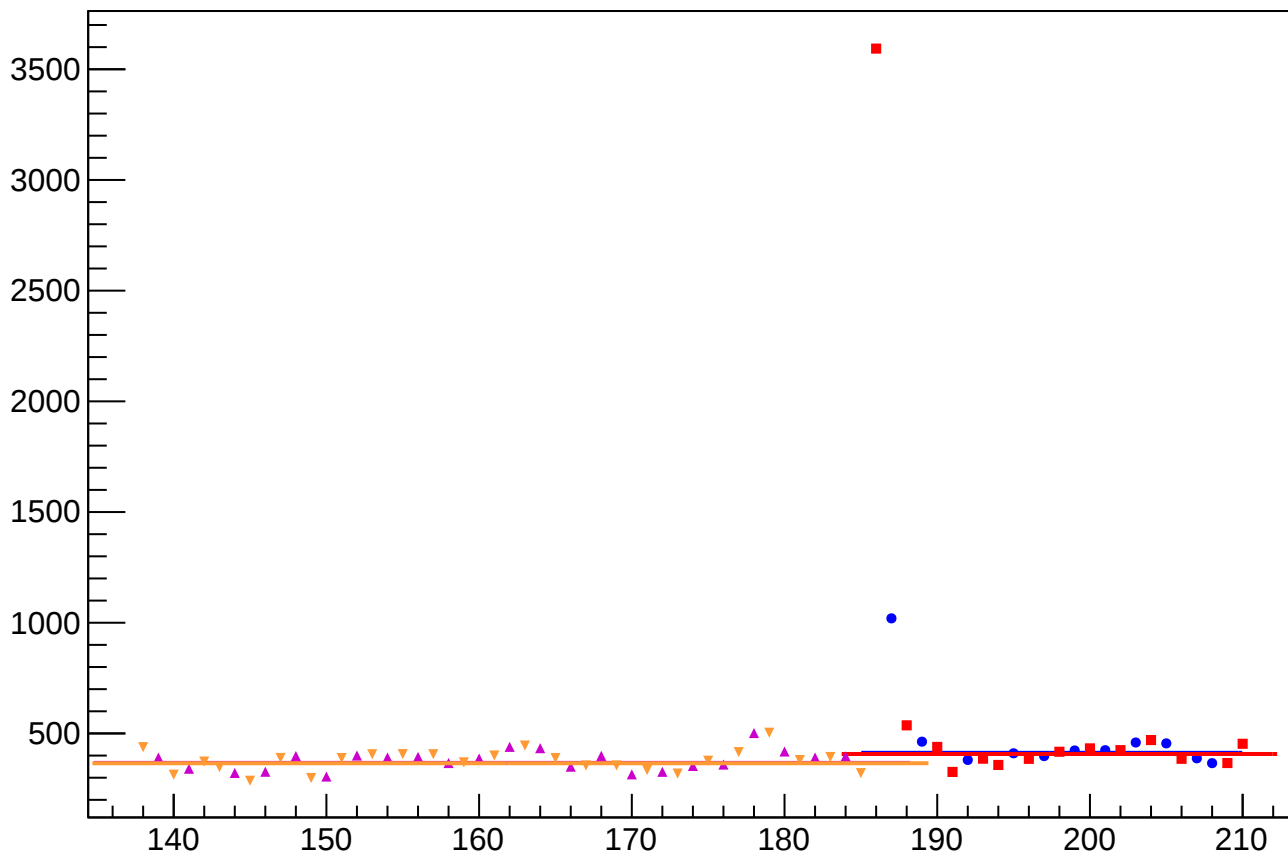
Right: -85.251 ± 100.699 χ^2/NDF : 33.5/24

In: 17.553 ± 76.291 χ^2/NDF : 39.6/33

Out: 111.918 ± 72.736 χ^2/NDF : 66.8/38

All: 66.985 ± 52.644 χ^2/NDF : 107.2/72

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 412.417 $\pm$ 0.106 χ^2 /NDF: 188733.3/10

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 407.177 $\pm$ 0.096 χ^2 /NDF: 825624.8/13

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

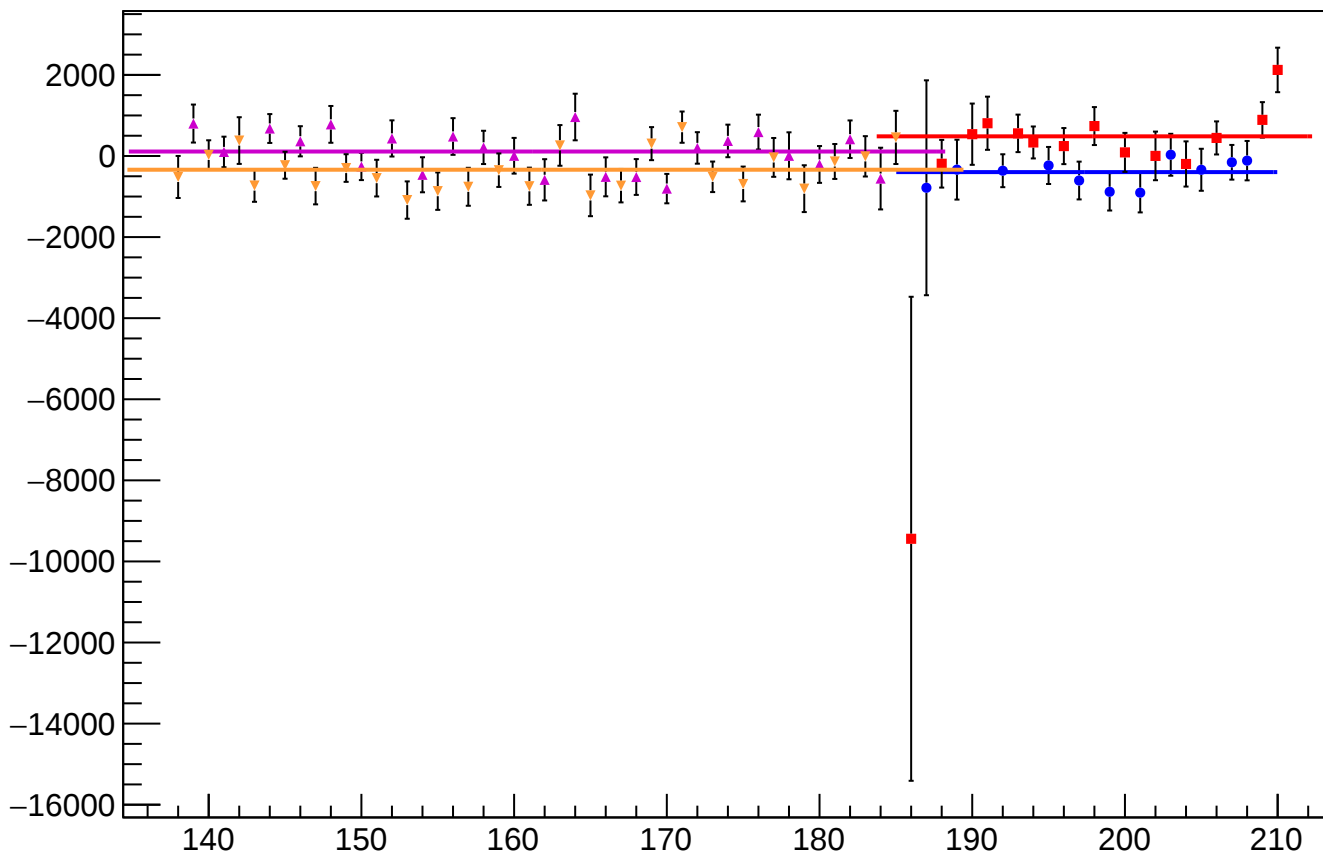
Right: 409.546 $\pm$ 0.071 χ^2 /NDF: 1015699.8/24

In: 378.730 $\pm$ 0.054 χ^2 /NDF: 803471.7/33

Out: 377.310 $\pm$ 0.051 χ^2 /NDF: 1579056.9/38

All: 377.986 $\pm$ 0.037 χ^2 /NDF: 2382891.4/72

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -397.168 ± 151.573 χ^2/NDF : 3.9/10

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 484.857 ± 137.871 χ^2/NDF : 17.7/13

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

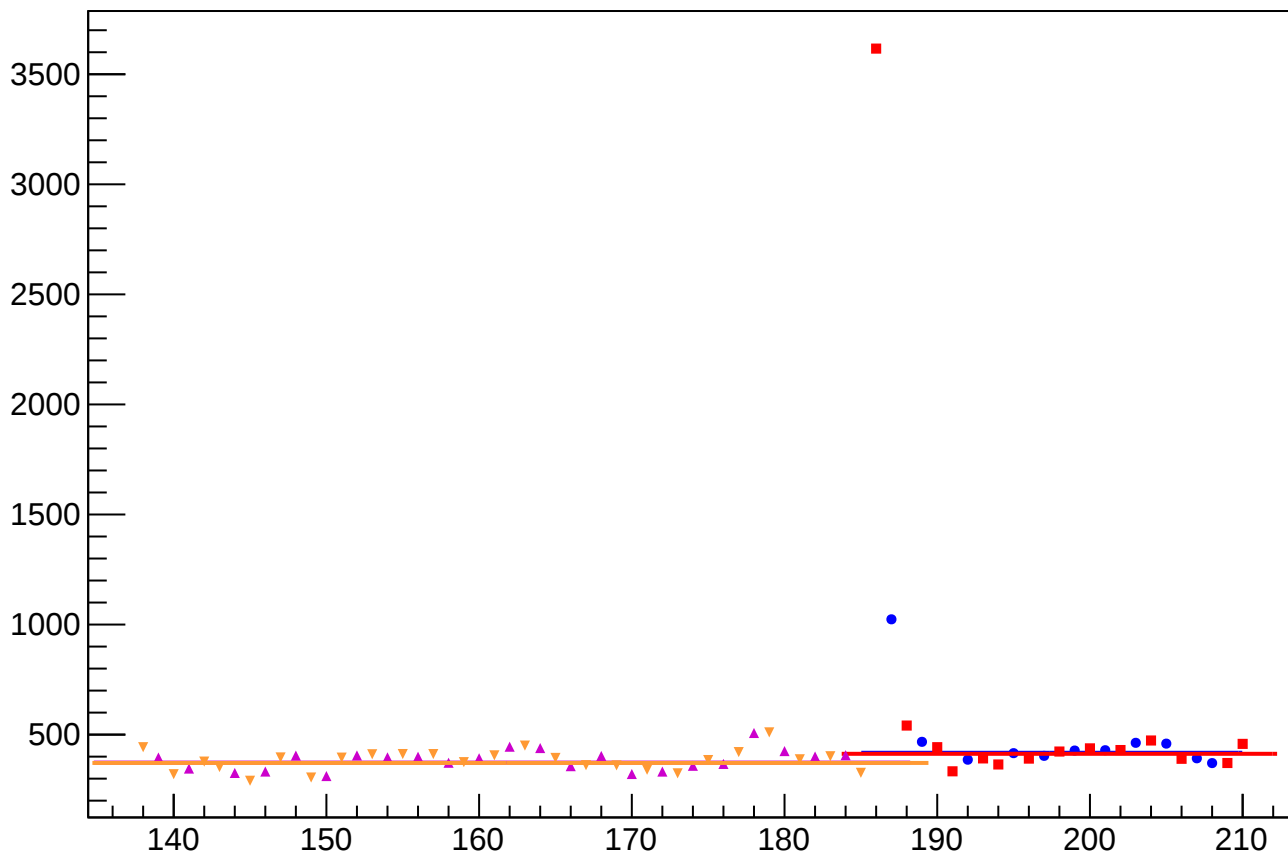
Right: 85.503 ± 101.990 χ^2/NDF : 40.1/24

In: -22.131 ± 77.439 χ^2/NDF : 41.4/33

Out: -102.301 ± 73.848 χ^2/NDF : 71.3/38

All: -64.119 ± 53.443 χ^2/NDF : 113.3/72

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 417.524 $\pm$ 0.107 χ^2 /NDF: 183377.3/10

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 412.849 $\pm$ 0.097 χ^2 /NDF: 812581.2/13

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

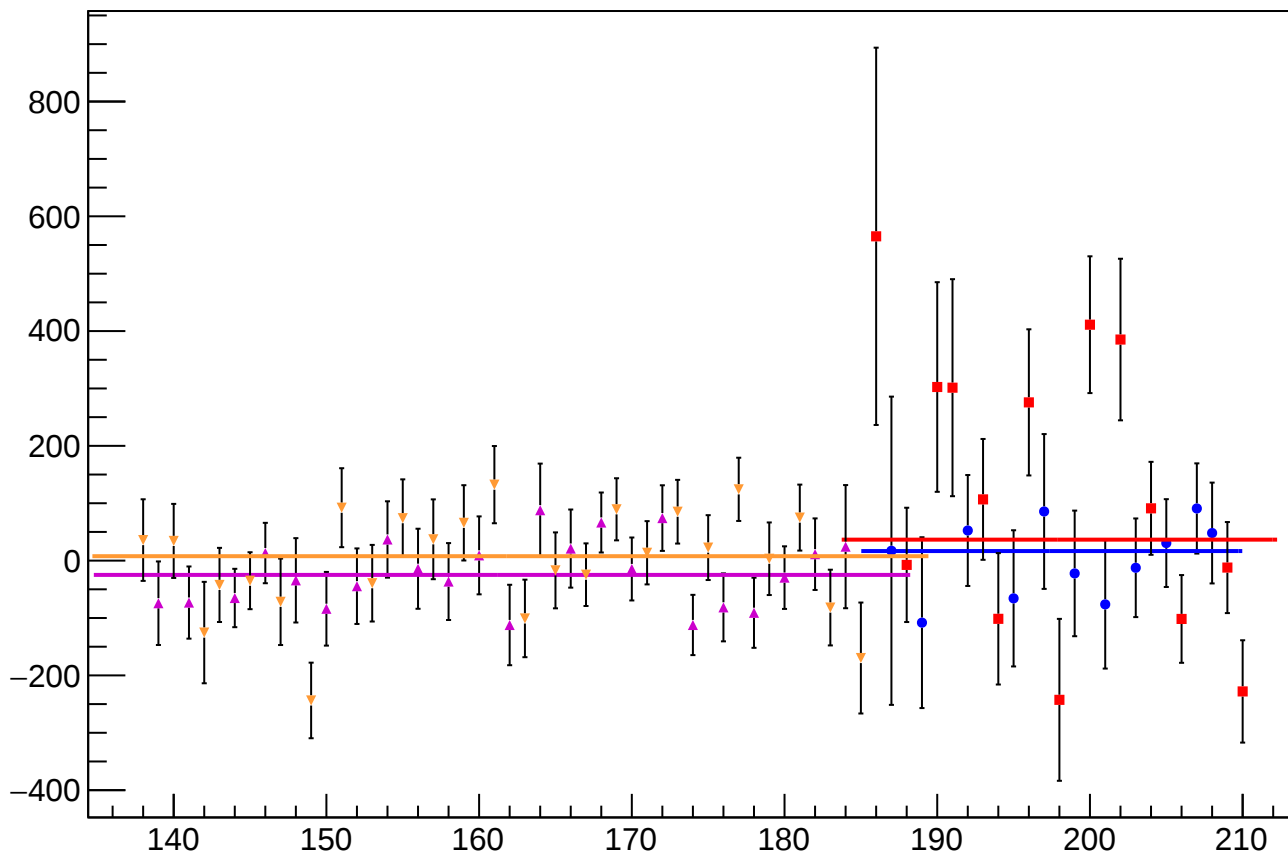
Right: 414.966 $\pm$ 0.072 χ^2 /NDF: 996999.3/24

In: 384.576 $\pm$ 0.055 χ^2 /NDF: 778601.0/33

Out: 383.260 $\pm$ 0.052 χ^2 /NDF: 1545831.8/38

All: 383.887 $\pm$ 0.038 χ^2 /NDF: 2324735.0/72

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 16.667 ± 30.817 $\chi^2/\text{NDF}: 3.6/10$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 36.558 ± 29.167 $\chi^2/\text{NDF}: 45.1/13$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

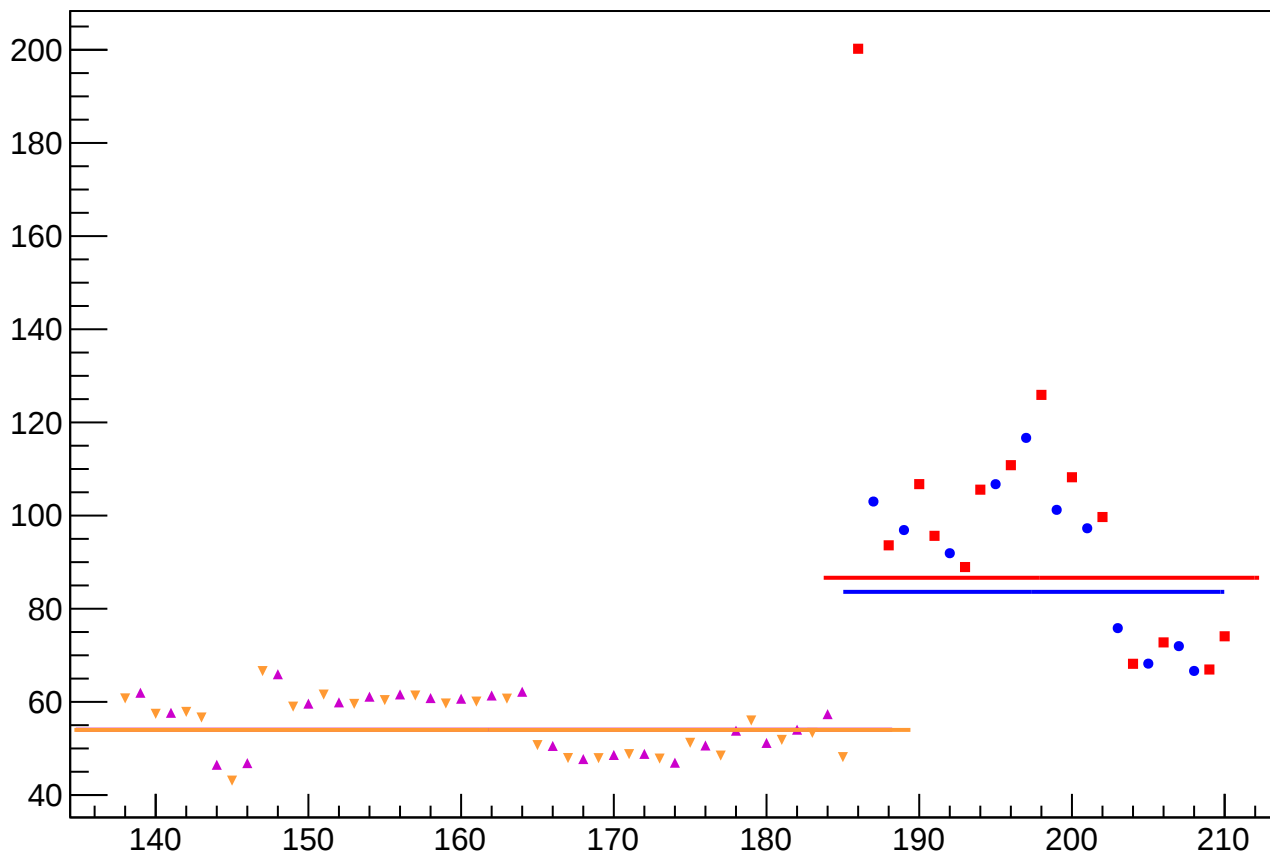
Right: 27.159 ± 21.183 $\chi^2/\text{NDF}: 48.9/24$

In: -18.586 ± 12.000 $\chi^2/\text{NDF}: 24.8/33$

Out: 12.292 ± 11.610 $\chi^2/\text{NDF}: 91.3/38$

All: -2.636 ± 8.344 $\chi^2/\text{NDF}: 119.6/72$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 83.625 $\pm$ 0.022 χ^2 /NDF: 534823.9/10

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 86.648 $\pm$ 0.021 χ^2 /NDF: 975420.9/13

Left In: 54.028 $\pm$ 0.009 χ^2 /NDF: 443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47

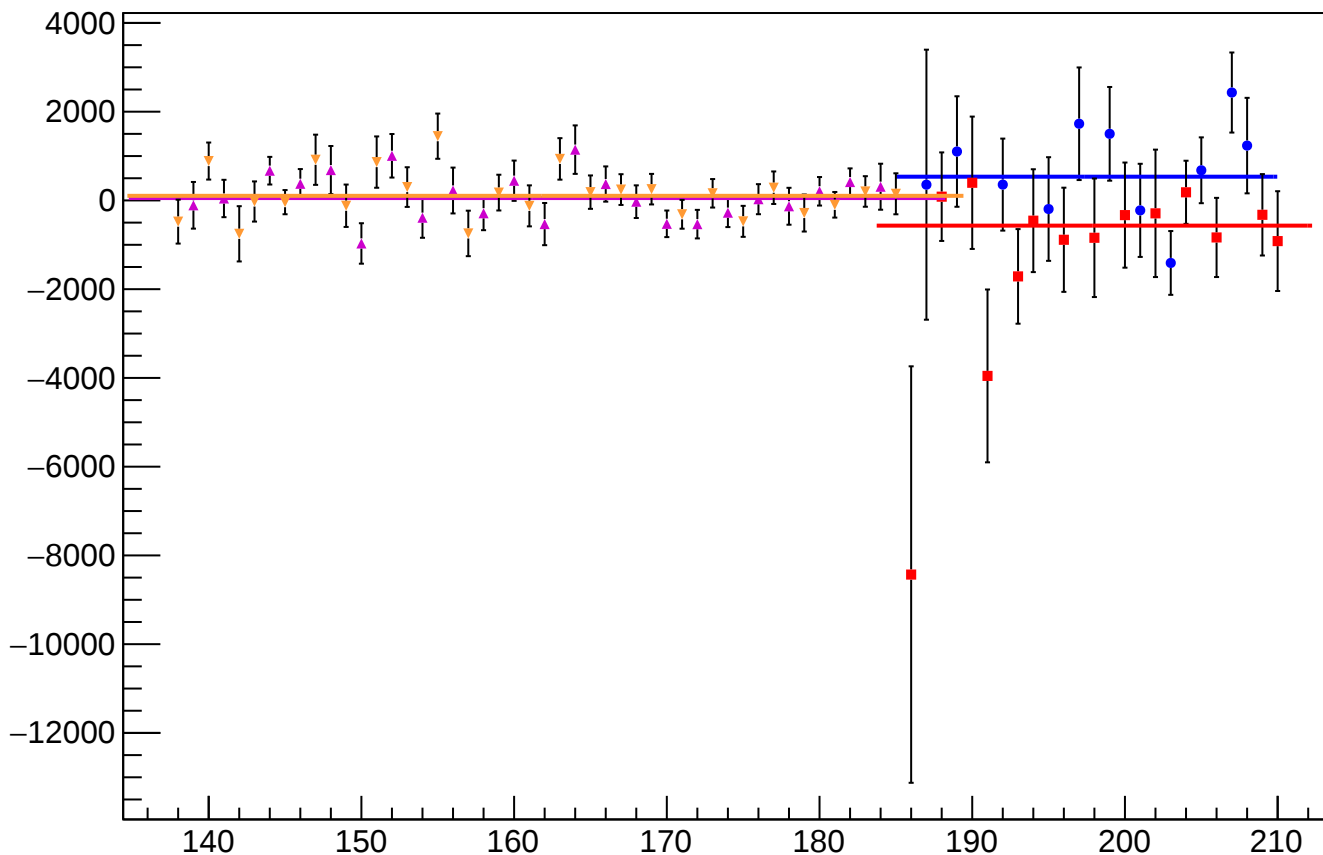
Right: 85.220 $\pm$ 0.015 χ^2 /NDF: 1520401.5/24

In: 58.516 $\pm$ 0.008 χ^2 /NDF: 2543716.7/33

Out: 59.159 $\pm$ 0.008 χ^2 /NDF: 3545386.9/38

All: 58.848 $\pm$ 0.006 χ^2 /NDF: 6092072.7/72

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 534.993 $\pm$ 305.886 χ^2 /NDF: 15.1/10

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -567.981 $\pm$ 300.350 χ^2 /NDF: 9.4/13

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

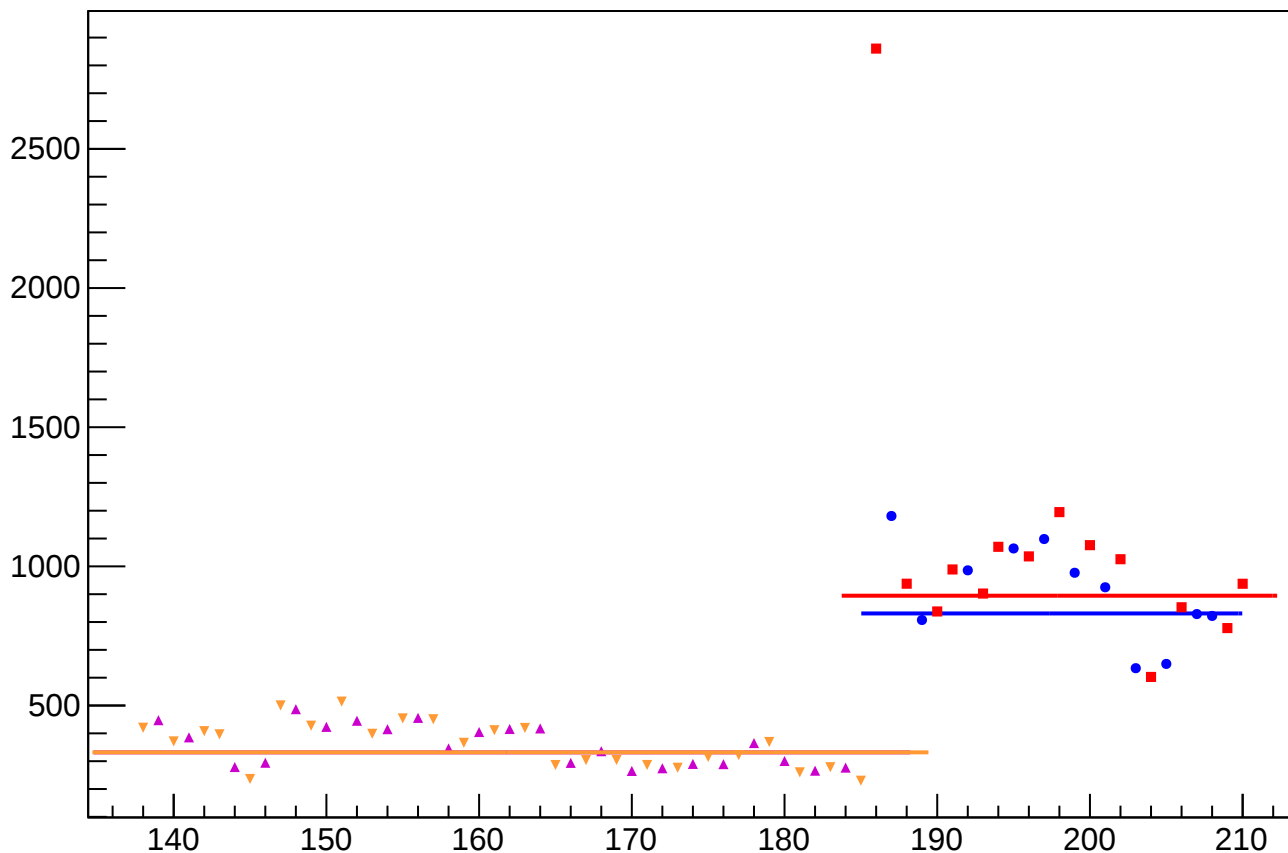
Right: -26.564 $\pm$ 214.310 χ^2 /NDF: 31.1/24

In: 85.191 $\pm$ 78.483 χ^2 /NDF:51.5/33

Out: 59.947 $\pm$ 76.712 χ^2 /NDF:45.0/38

All: 72.281 $\pm$ 54.859 χ^2 /NDF: 96.6/72

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 830.858+/-0.216 χ^2/NDF : 564442.7/10

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 894.584+/-0.212 χ^2/NDF : 978425.2/13

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

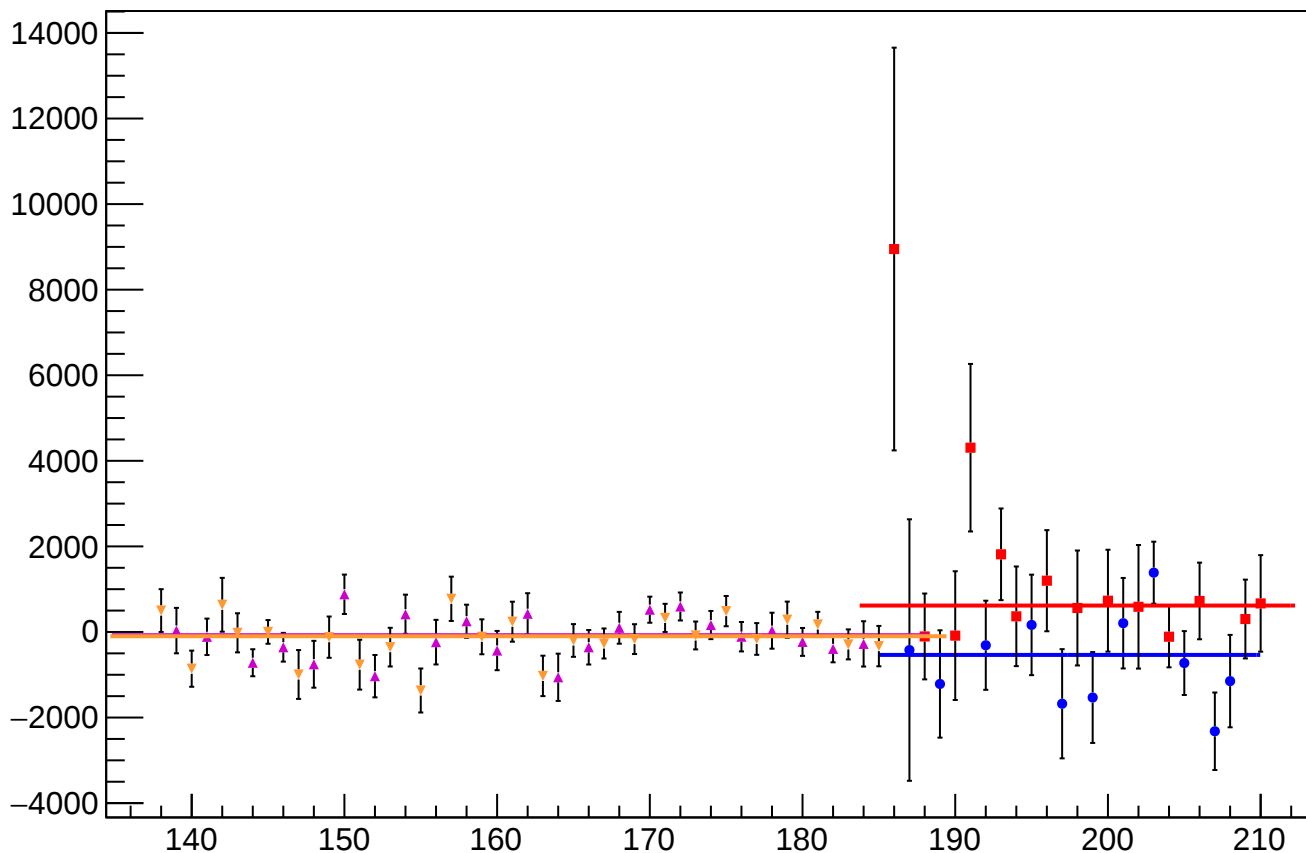
Right: 863.302+/-0.152 χ^2/NDF : 1587062.9/24

In: 364.528+/-0.055 χ^2/NDF : 6843536.1/33

Out: 368.485+/-0.054 χ^2/NDF : 9254701.4/38

All: 366.552+/-0.039 χ^2/NDF : 16100837.6/72

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -536.167 ± 307.672 $\chi^2/\text{NDF}: 14.2/10$

Left Out: -99.785 ± 80.428 $\chi^2/\text{NDF}: 30.7/24$

Right Out: 617.579 ± 301.960 $\chi^2/\text{NDF}: 10.1/13$

Left In: -75.579 ± 82.319 $\chi^2/\text{NDF}: 32.1/22$

Left: -87.963 ± 57.528 $\chi^2/\text{NDF}: 62.8/47$

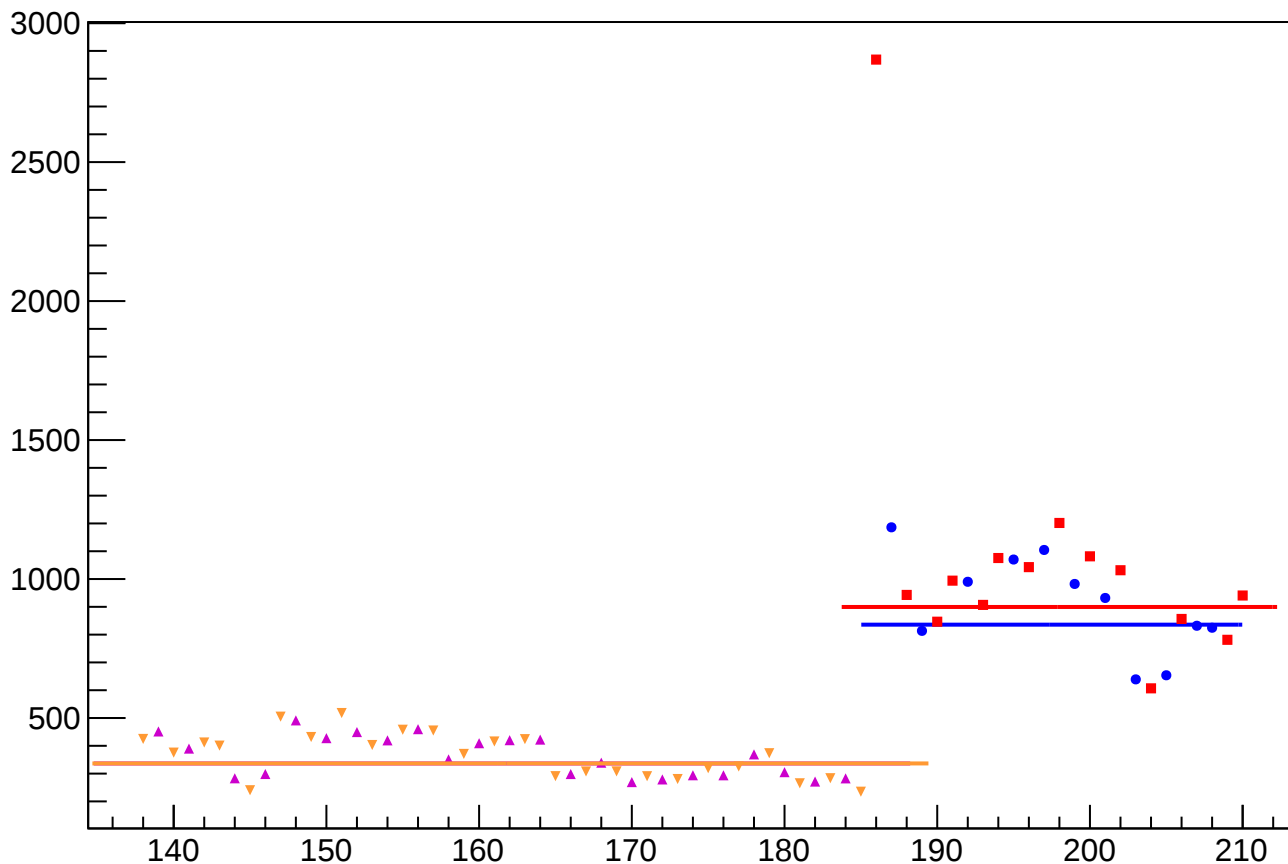
Right: 51.515 ± 215.509 $\chi^2/\text{NDF}: 31.5/24$

In: -106.348 ± 79.522 $\chi^2/\text{NDF}: 48.4/33$

Out: -52.264 ± 77.718 $\chi^2/\text{NDF}: 46.1/38$

All: -78.686 ± 55.582 $\chi^2/\text{NDF}: 94.7/72$

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 835.850+/-0.218 χ^2/NDF : 560747.2/10

Left Out: 336.557+/-0.057 χ^2/NDF :1665919.4/24

Right Out: 899.493+/-0.214 χ^2/NDF : 975640.1/13

Left In: 336.439+/-0.058 χ^2/NDF :1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

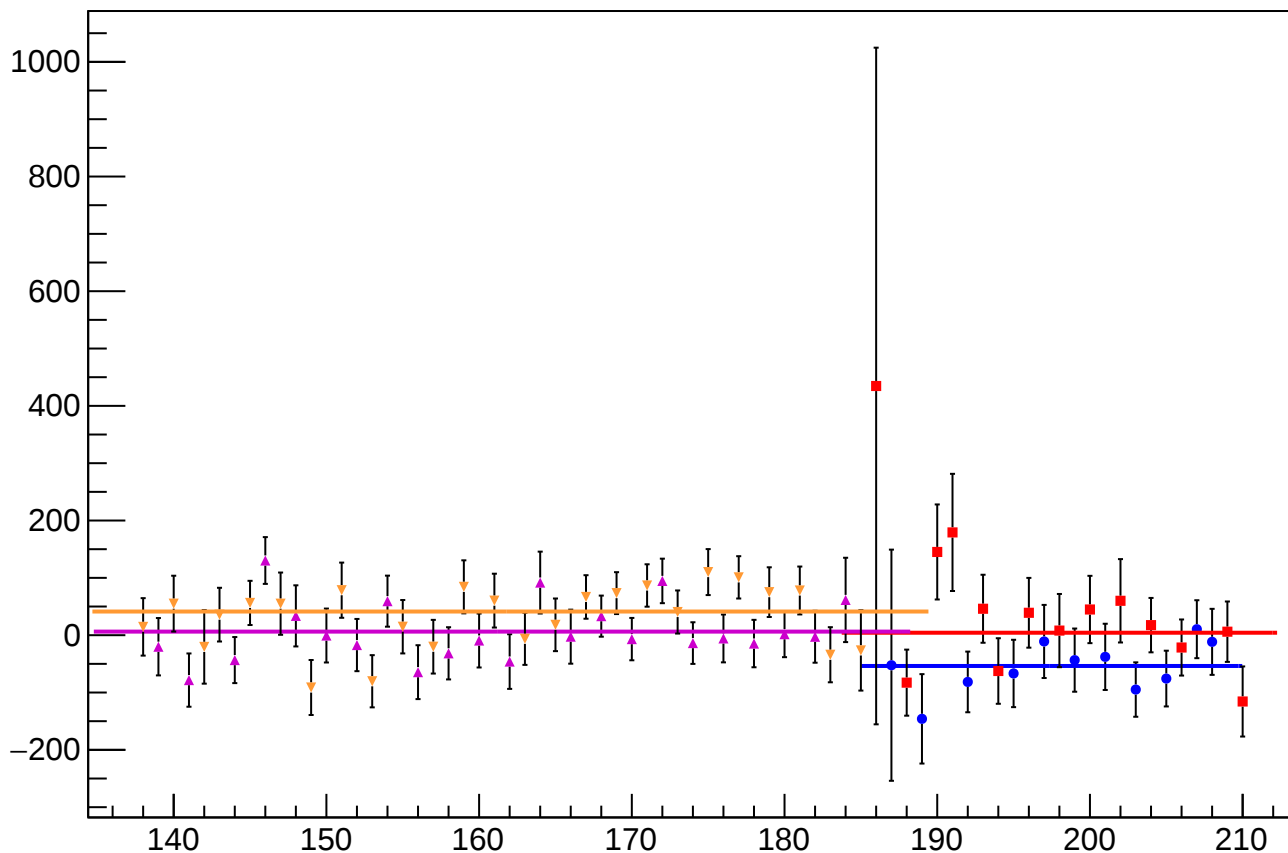
Right: 868.268+/-0.152 χ^2/NDF : 1579977.3/24

In: 369.801+/-0.056 χ^2/NDF :6747305.6/33

Out: 373.849+/-0.055 χ^2/NDF :9132127.4/38

All: 371.872+/-0.039 χ^2/NDF : 15882082.9/72

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -53.690 ± 17.484 $\chi^2/\text{NDF}: 5.4/10$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 4.299 ± 16.620 $\chi^2/\text{NDF}: 16.1/13$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

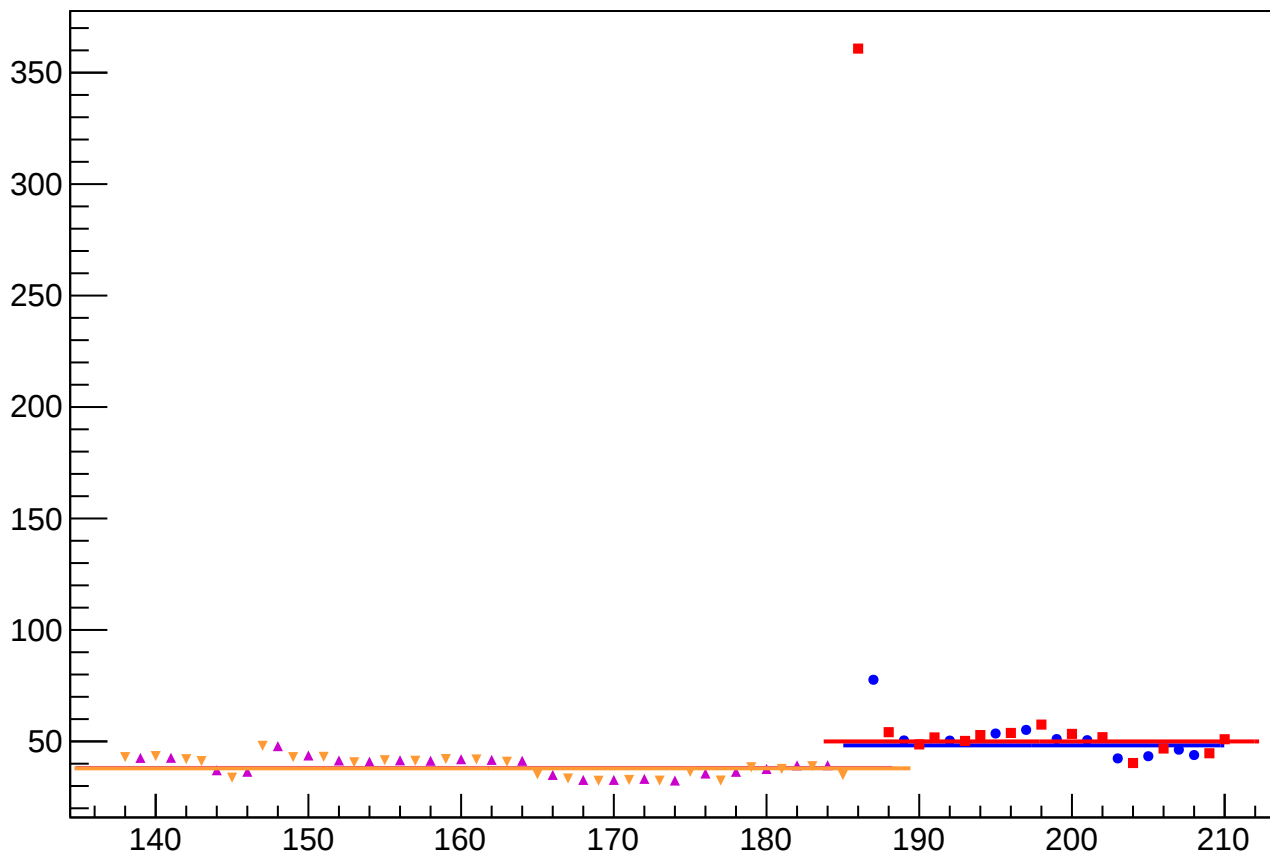
Right: -23.228 ± 12.046 $\chi^2/\text{NDF}: 27.3/24$

In: -6.689 ± 8.124 $\chi^2/\text{NDF}: 44.9/33$

Out: 33.056 ± 7.838 $\chi^2/\text{NDF}: 54.3/38$

All: 13.894 ± 5.641 $\chi^2/\text{NDF}: 111.6/72$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.224 $\pm$ 0.012 χ^2 /NDF: 160884.9/10

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.987 $\pm$ 0.012 χ^2 /NDF: 727816.9/13

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

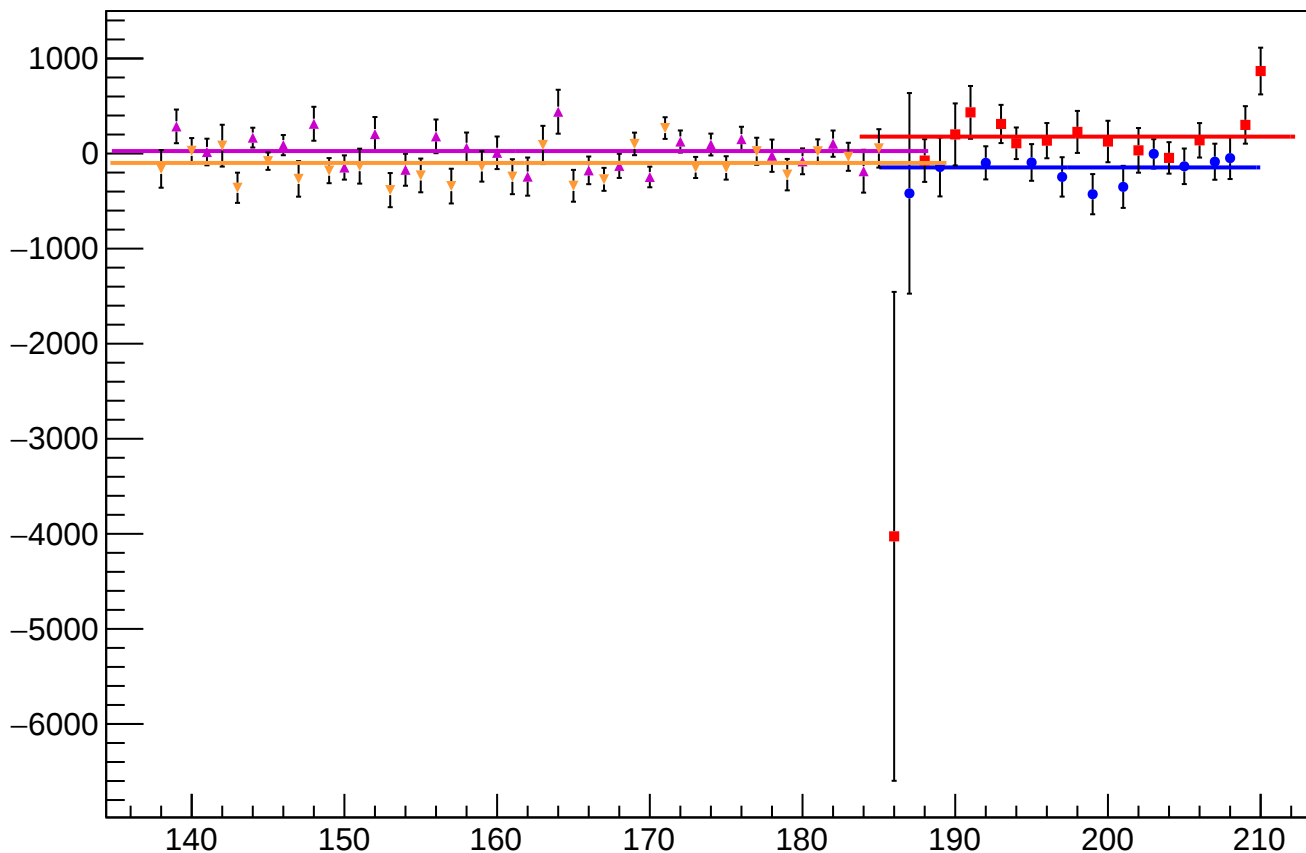
Right: 49.150 $\pm$ 0.009 χ^2 /NDF: 899376.7/24

In: 40.276 $\pm$ 0.006 χ^2 /NDF: 1084394.8/33

Out: 40.608 $\pm$ 0.006 χ^2 /NDF: 2033989.0/38

All: 40.448 $\pm$ 0.004 χ^2 /NDF: 3120114.5/72

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

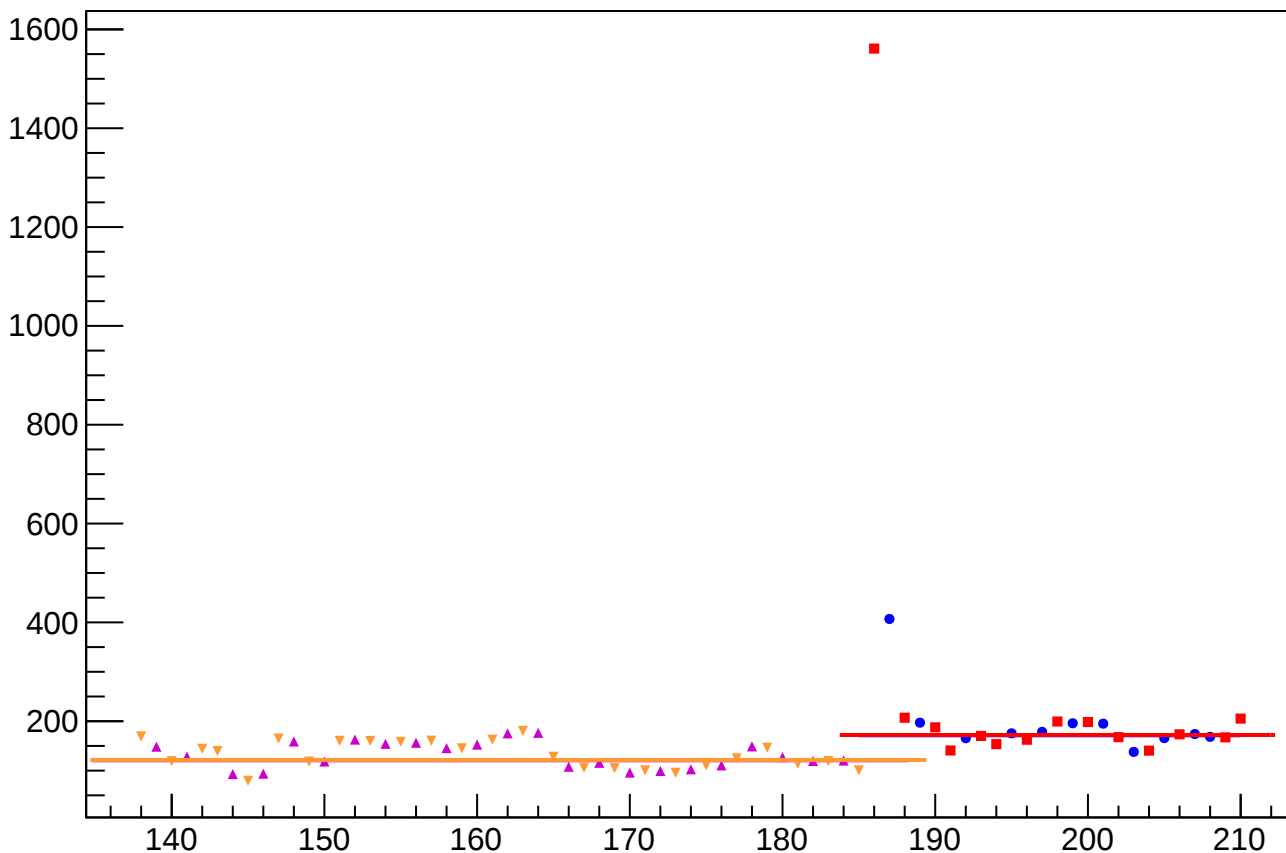
Right: 29.105 ± 42.352 $\chi^2/\text{NDF}: 34.8/24$

In: -5.475 ± 26.805 $\chi^2/\text{NDF}: 41.1/33$

Out: -42.507 ± 25.971 $\chi^2/\text{NDF}: 67.2/38$

All: -24.576 ± 18.652 $\chi^2/\text{NDF}: 109.3/72$

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.553 $\pm$ 0.044 χ^2/NDF : 265338.4/10

Left Out: 121.592 $\pm$ 0.021 χ^2/NDF : 1711423.9/24

Right Out: 172.110 $\pm$ 0.041 χ^2/NDF : 863240.8/13

Left In: 120.927 $\pm$ 0.021 χ^2/NDF : 1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2/NDF : 3094797.5/47

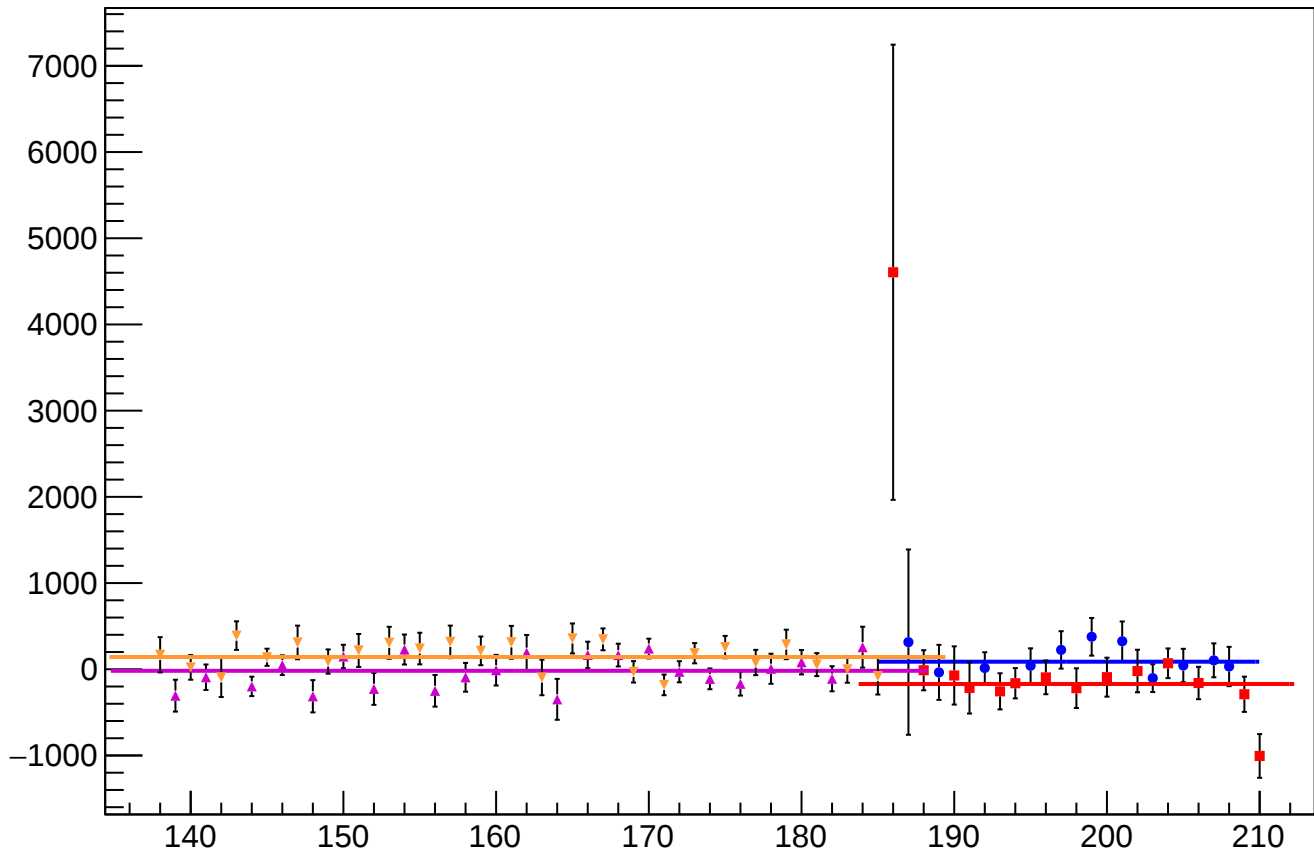
Right: 171.854 $\pm$ 0.030 χ^2/NDF : 1128664.8/24

In: 130.247 $\pm$ 0.019 χ^2/NDF : 2719809.8/33

Out: 131.858 $\pm$ 0.018 χ^2/NDF : 3799929.1/38

All: 131.078 $\pm$ 0.013 χ^2/NDF : 6523464.4/72

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 87.725 ± 65.025 $\chi^2/\text{NDF}: 5.1/10$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -170.700 ± 60.157 $\chi^2/\text{NDF}: 17.8/13$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

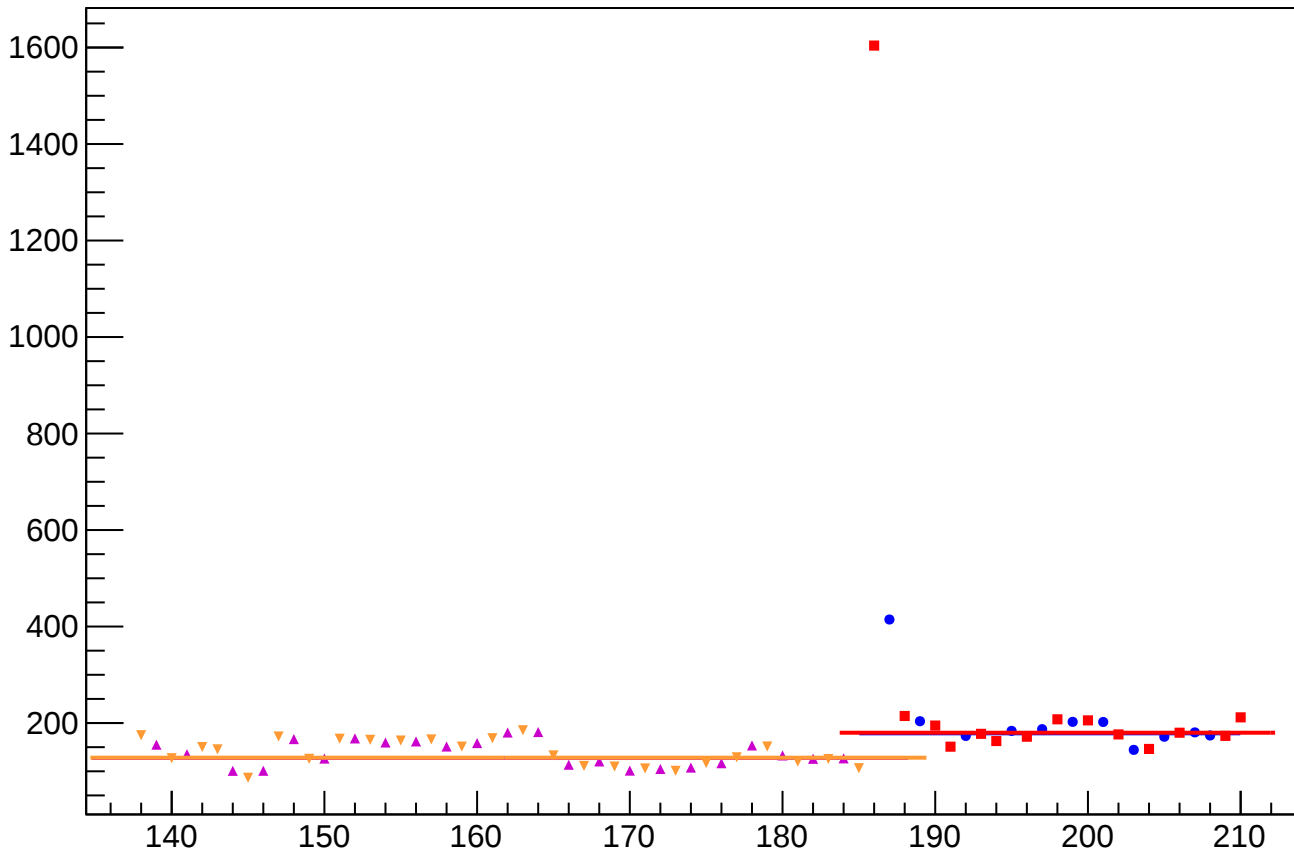
Right: -51.522 ± 44.158 $\chi^2/\text{NDF}: 31.5/24$

In: 2.055 ± 28.136 $\chi^2/\text{NDF}: 37.4/33$

Out: 77.819 ± 27.256 $\chi^2/\text{NDF}: 66.2/38$

All: 41.140 ± 19.577 $\chi^2/\text{NDF}: 107.3/72$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 178.687 $\pm$ 0.046 χ^2 /NDF: 253296.2/10

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 179.940 $\pm$ 0.043 χ^2 /NDF: 837263.3/13

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

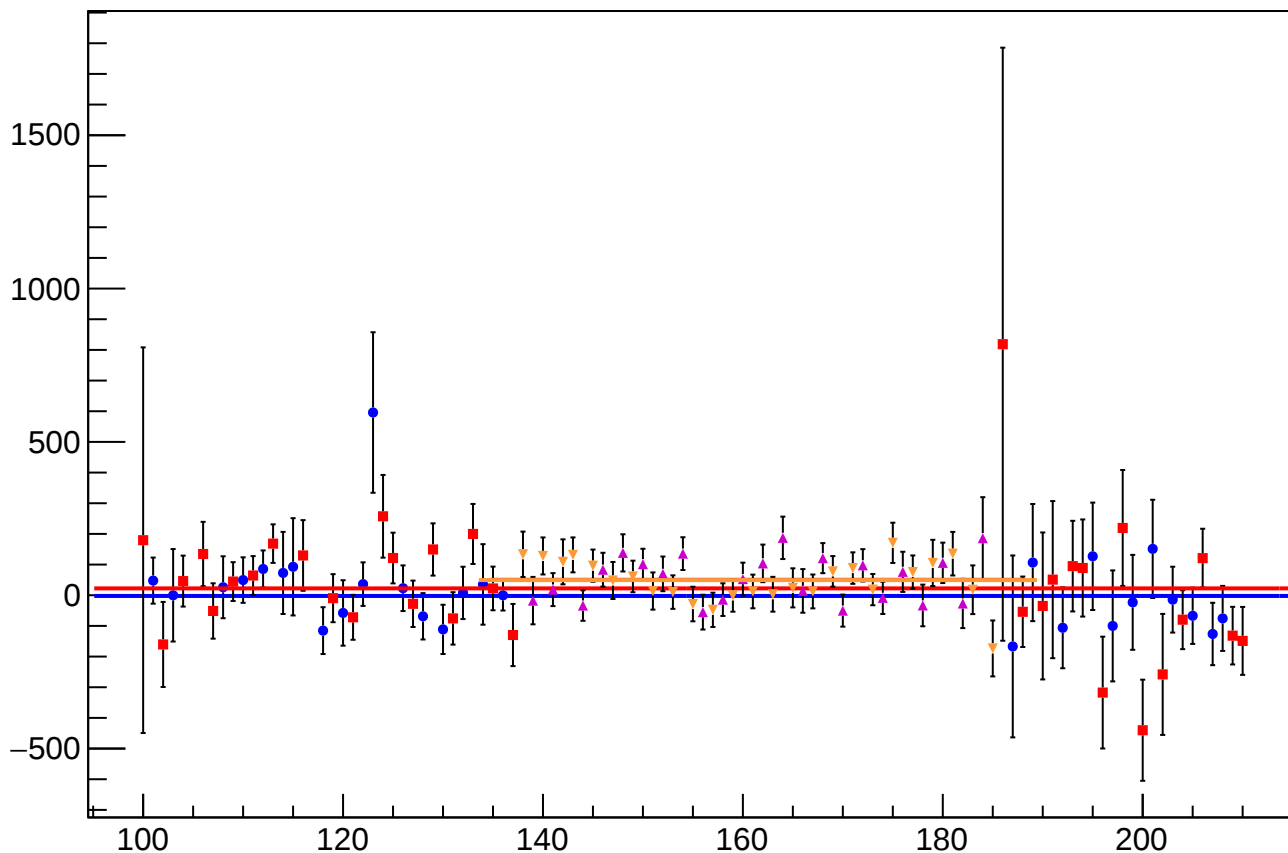
Right: 179.362 $\pm$ 0.031 χ^2 /NDF: 1090959.8/24

In: 137.119 $\pm$ 0.020 χ^2 /NDF: 2494581.2/33

Out: 138.802 $\pm$ 0.019 χ^2 /NDF: 3547094.7/38

All: 137.987 $\pm$ 0.014 χ^2 /NDF: 6045366.3/72

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.311 ± 18.003 $\chi^2/\text{NDF}: 20.1/27$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 22.352 ± 17.229 $\chi^2/\text{NDF}: 49.7/32$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

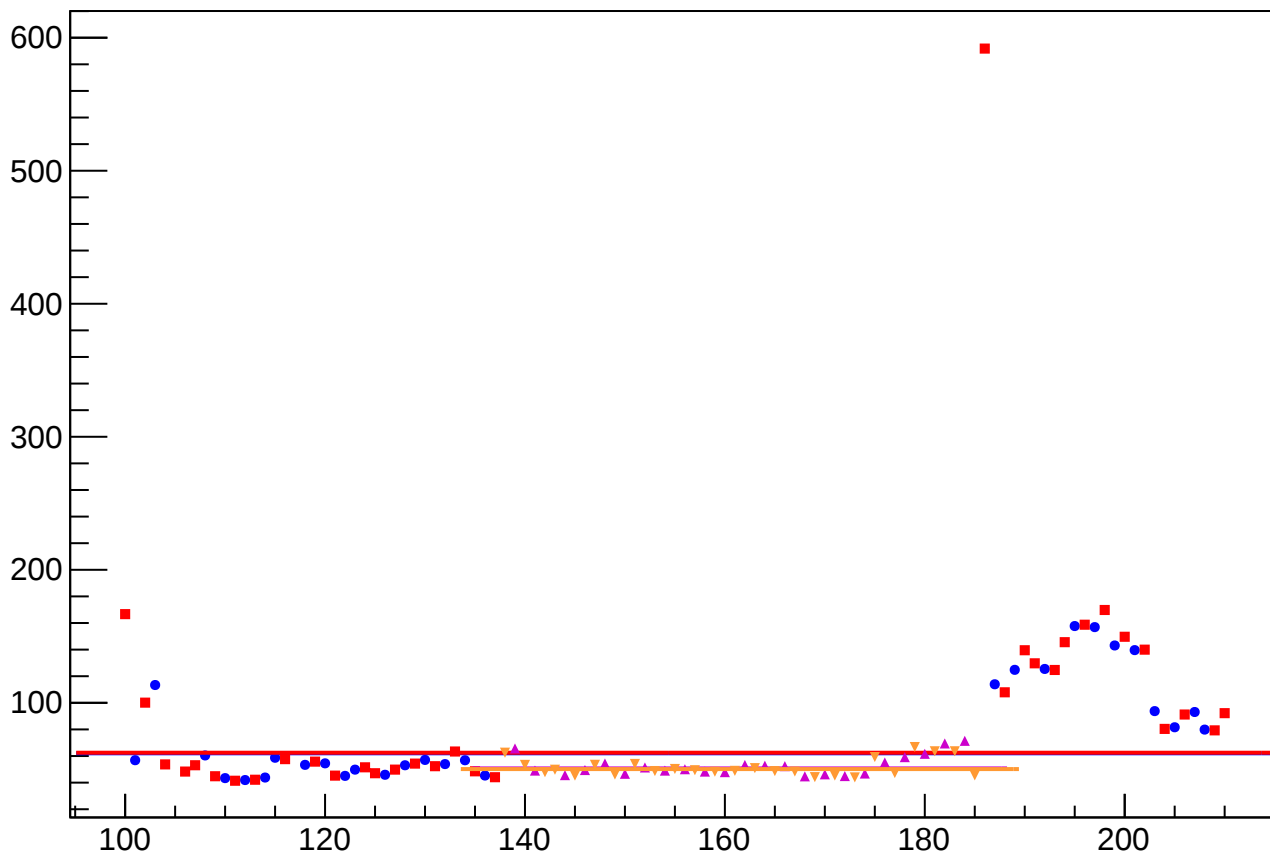
Right: 10.562 ± 12.448 $\chi^2/\text{NDF}: 70.8/60$

In: 33.665 ± 10.130 $\chi^2/\text{NDF}: 58.1/50$

Out: 40.759 ± 9.739 $\chi^2/\text{NDF}: 79.4/57$

All: 37.352 ± 7.020 $\chi^2/\text{NDF}: 137.8/108$

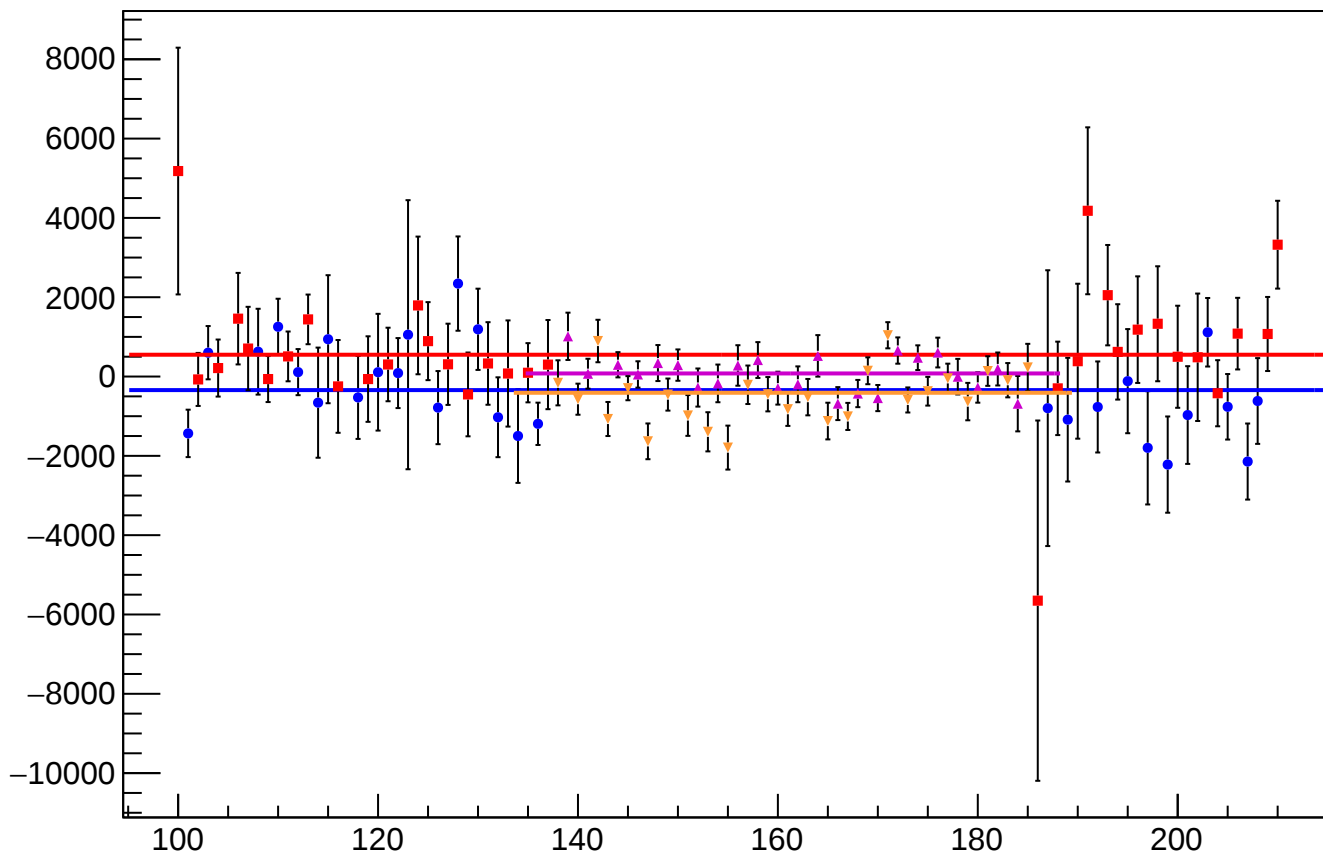
reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 62.058 $\pm$ 0.013 χ^2 /NDF: 4570492.9/27
 Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24
 Right Out: 62.483 $\pm$ 0.012 χ^2 /NDF: 6015257.0/32
 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: 62.280 $\pm$ 0.009 χ^2 /NDF: 10586334.0/60
 In: 54.284 $\pm$ 0.007 χ^2 /NDF: 5585395.5/50
 Out: 54.117 $\pm$ 0.007 χ^2 /NDF: 7175897.7/57
 All: 54.197 $\pm$ 0.005 χ^2 /NDF: 12761575.3/108

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -341.944+/-179.780 χ^2/NDF : 35.4/27

Left Out: -409.164+/-82.348 χ^2/NDF : 61.7/24

Right Out: 549.969+/-173.446 χ^2/NDF : 25.7/32

Left In: 77.872+/-84.072 χ^2/NDF : 24.8/22

Left: -170.691+/-58.829 χ^2/NDF : 103.6/47

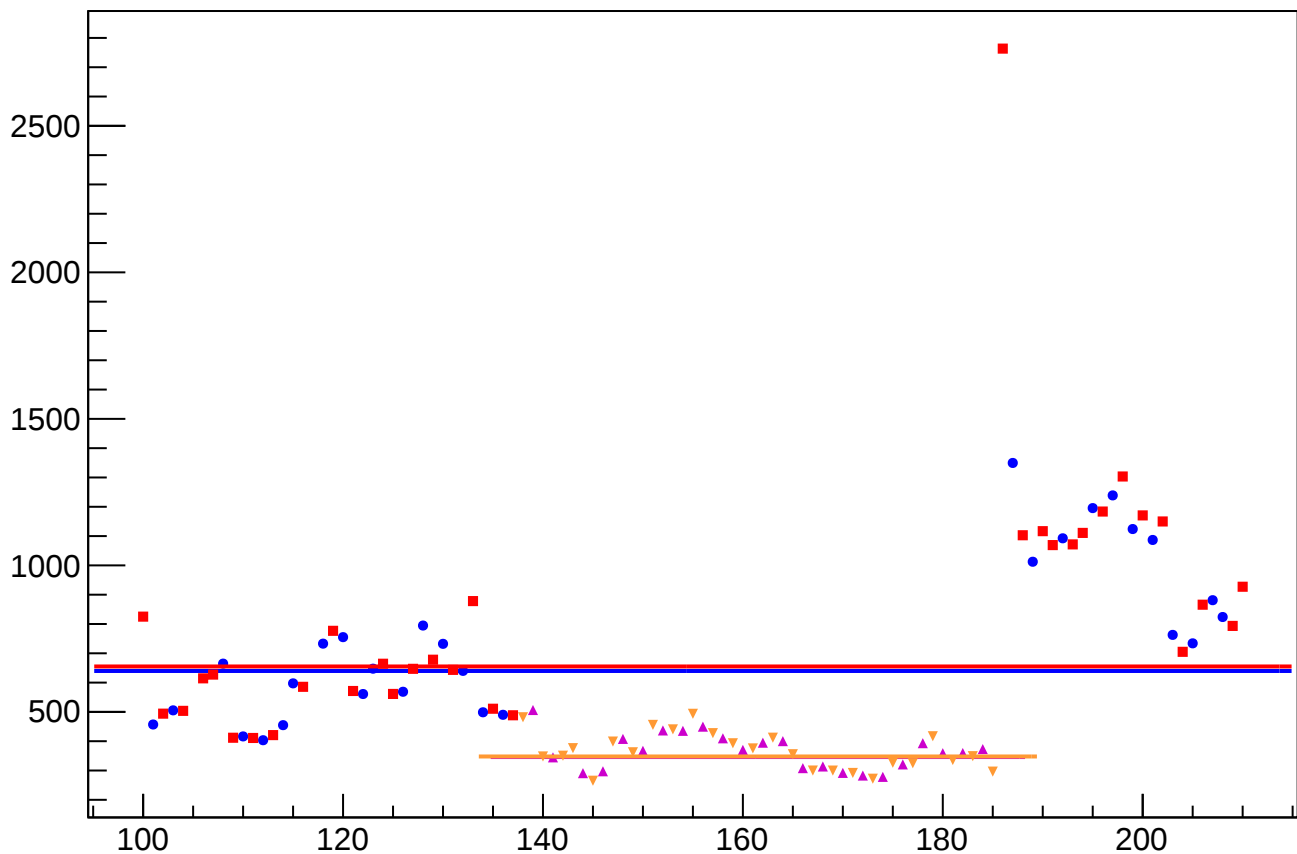
Right: 120.002+/-124.824 χ^2/NDF : 73.8/60

In: 2.538+/-76.156 χ^2/NDF : 64.7/50

Out: -232.732+/-74.390 χ^2/NDF : 112.3/57

All: -117.857+/-53.215 χ^2/NDF : 181.9/108

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 639.662 $\pm$ 0.127 χ^2 /NDF: 3179805.4/27

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 655.040 $\pm$ 0.123 χ^2 /NDF: 4304558.2/32

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

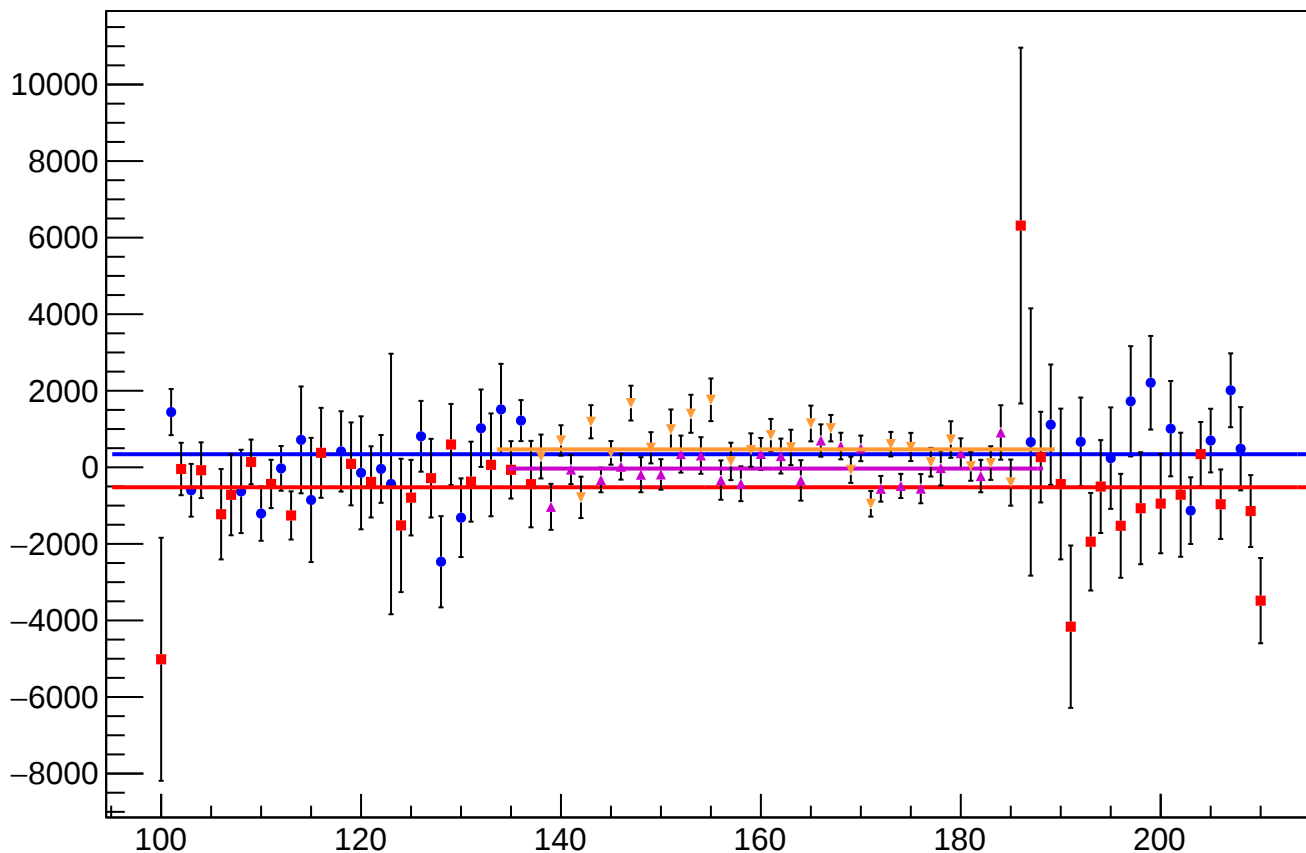
Right: 647.627 $\pm$ 0.088 χ^2 /NDF: 7491942.9/60

In: 398.659 $\pm$ 0.054 χ^2 /NDF:8460792.8/50

Out: 404.378 $\pm$ 0.053 χ^2 /NDF:10467409.1/57

All: 401.586 $\pm$ 0.038 χ^2 /NDF: 18933974.8/10

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 342.158+/-181.058 χ^2/NDF : 34.6/27

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -521.128+/-174.755 χ^2/NDF : 25.4/32

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

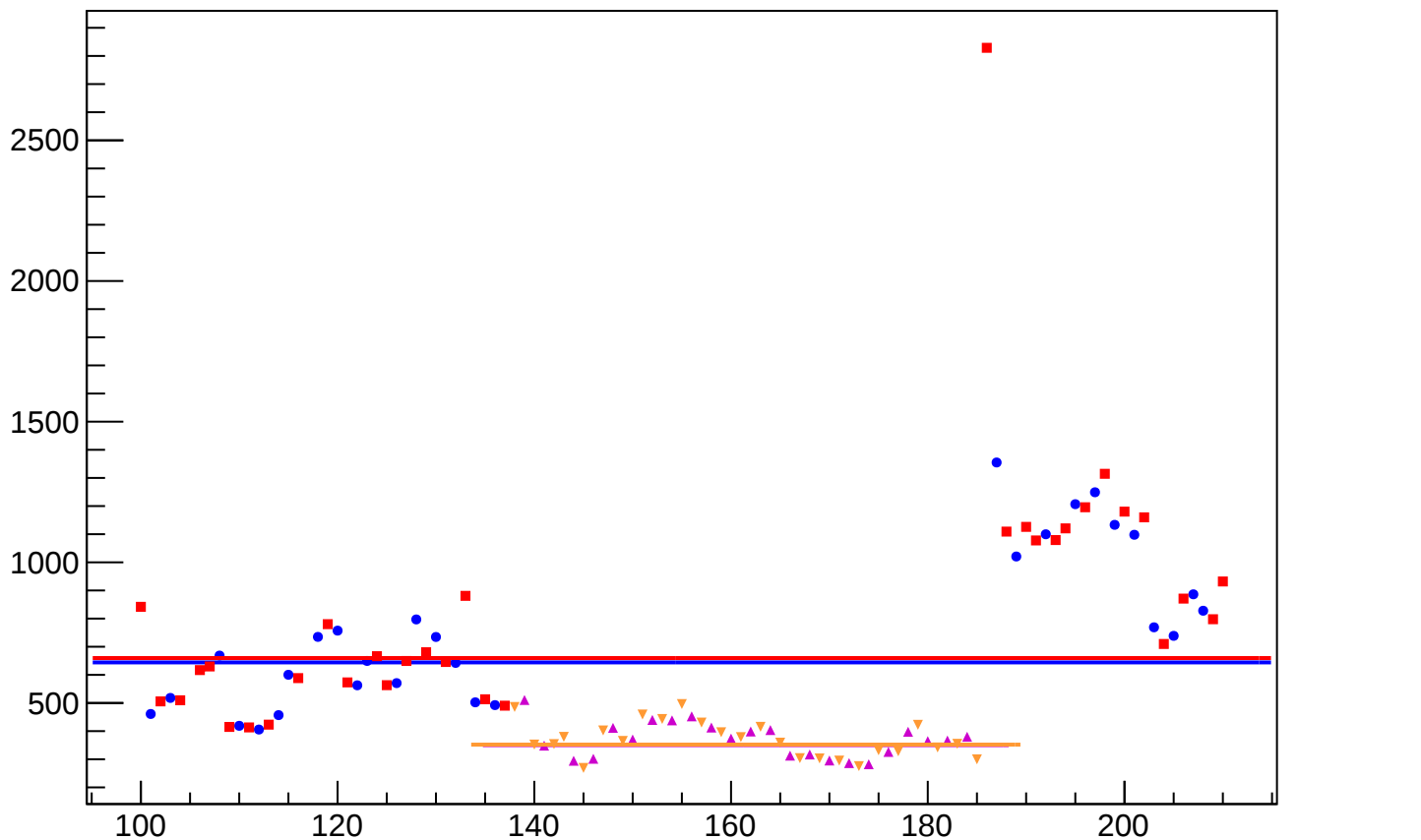
Right: -104.773+/-125.740 χ^2/NDF : 71.8/60

In: 34.997+/-76.990 χ^2/NDF : 63.8/50

Out: 285.588+/-75.191 χ^2/NDF : 109.1/57

All: 163.255+/-53.793 χ^2/NDF : 178.3/108

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 644.282+/-0.128 χ^2/NDF : 3174878.5/27

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 659.771+/-0.124 χ^2/NDF : 4303821.3/32

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

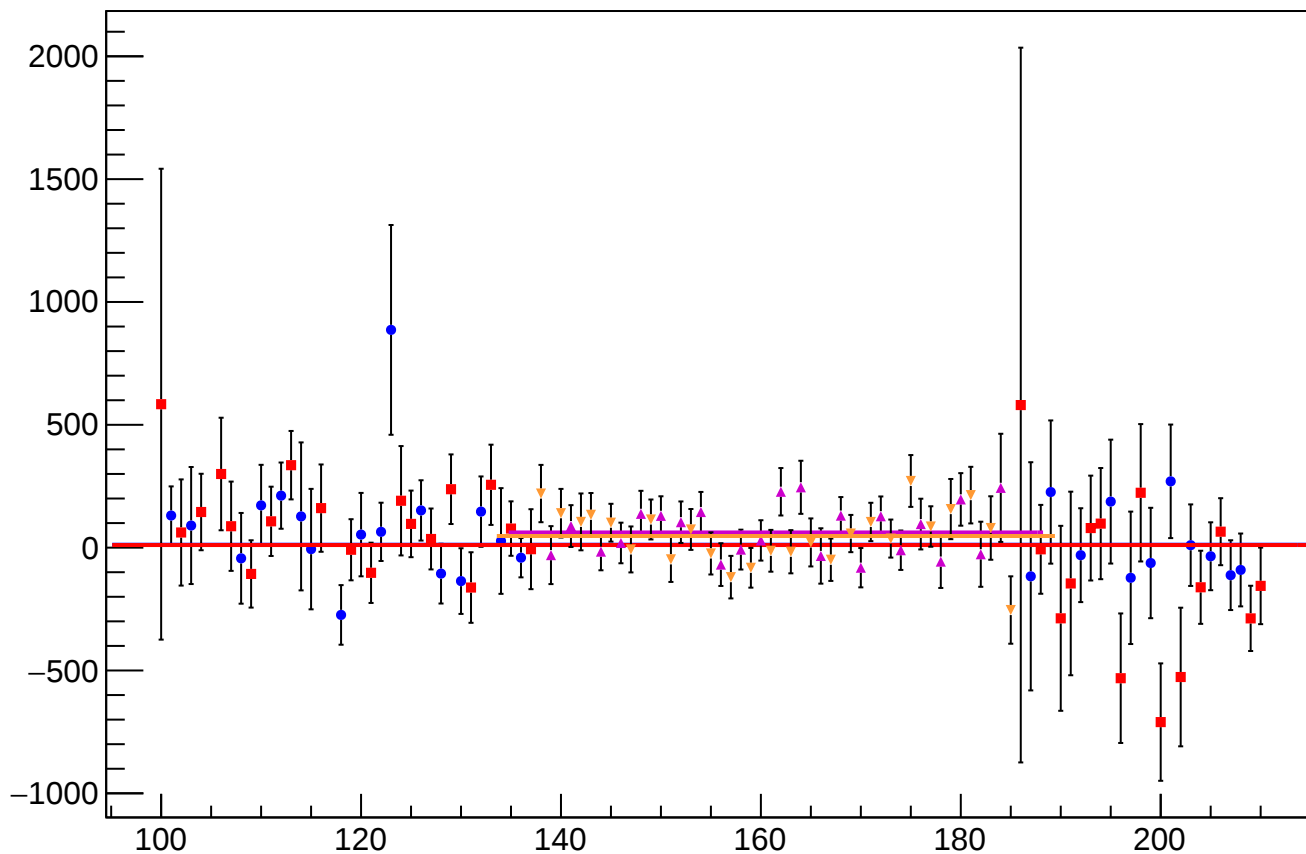
Right: 652.301+/-0.089 χ^2/NDF : 7486277.6/60

In: 403.342+/-0.054 χ^2/NDF : 8376688.5/50

Out: 408.989+/-0.053 χ^2/NDF : 10375453.6/57

All: 406.232+/-0.038 χ^2/NDF : 18757649.5/100

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 11.874 $\pm$ 29.760 χ^2 /NDF: 23.4/27

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 10.621 $\pm$ 29.278 χ^2 /NDF: 45.4/32

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

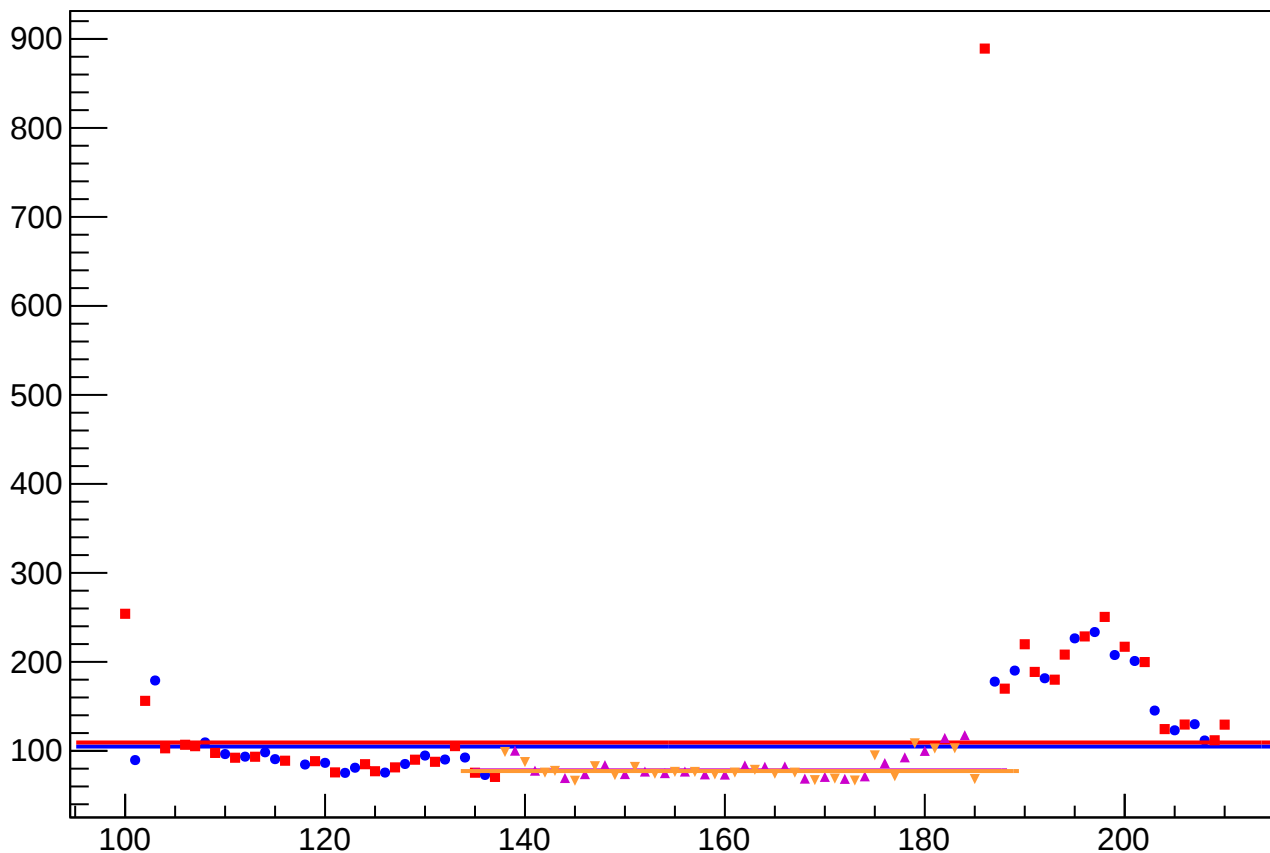
Right: 11.238 $\pm$ 20.871 χ^2 /NDF: 68.8/60

In: 47.410 $\pm$ 15.989 χ^2 /NDF:49.4/50

Out: 37.125 $\pm$ 15.489 χ^2 /NDF:75.9/57

All: 42.104 $\pm$ 11.125 χ^2 /NDF: 125.5/108

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 104.878 $\pm$ 0.021 χ^2 /NDF: 3438837.8/27

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 109.428 $\pm$ 0.021 χ^2 /NDF: 4360191.6/32

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

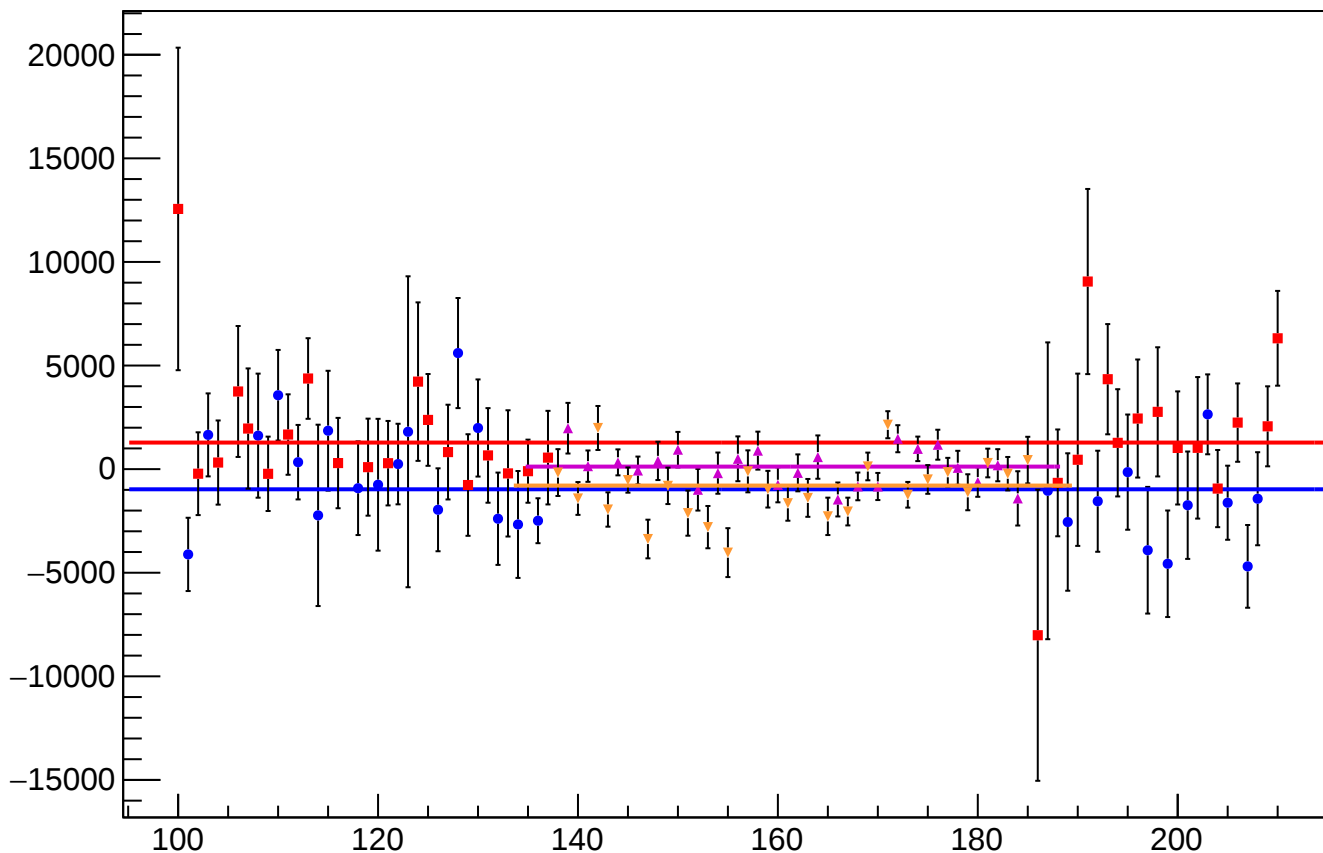
Right: 107.190 $\pm$ 0.015 χ^2 /NDF: 7822788.8/60

In: 85.857 $\pm$ 0.011 χ^2 /NDF:5169468.3/50

Out: 86.304 $\pm$ 0.011 χ^2 /NDF:6728317.7/57

All: 86.087 $\pm$ 0.008 χ^2 /NDF: 11898590.2/108

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -973.101 ± 423.723 χ^2/NDF : 33.3/27

Left Out: -792.776 ± 162.659 χ^2/NDF : 66.6/24

Right Out: 1282.142 ± 415.159 χ^2/NDF : 24.1/32

Left In: 122.198 ± 166.193 χ^2/NDF : 25.9/22

Left: -345.122 ± 116.247 χ^2/NDF : 108.0/47

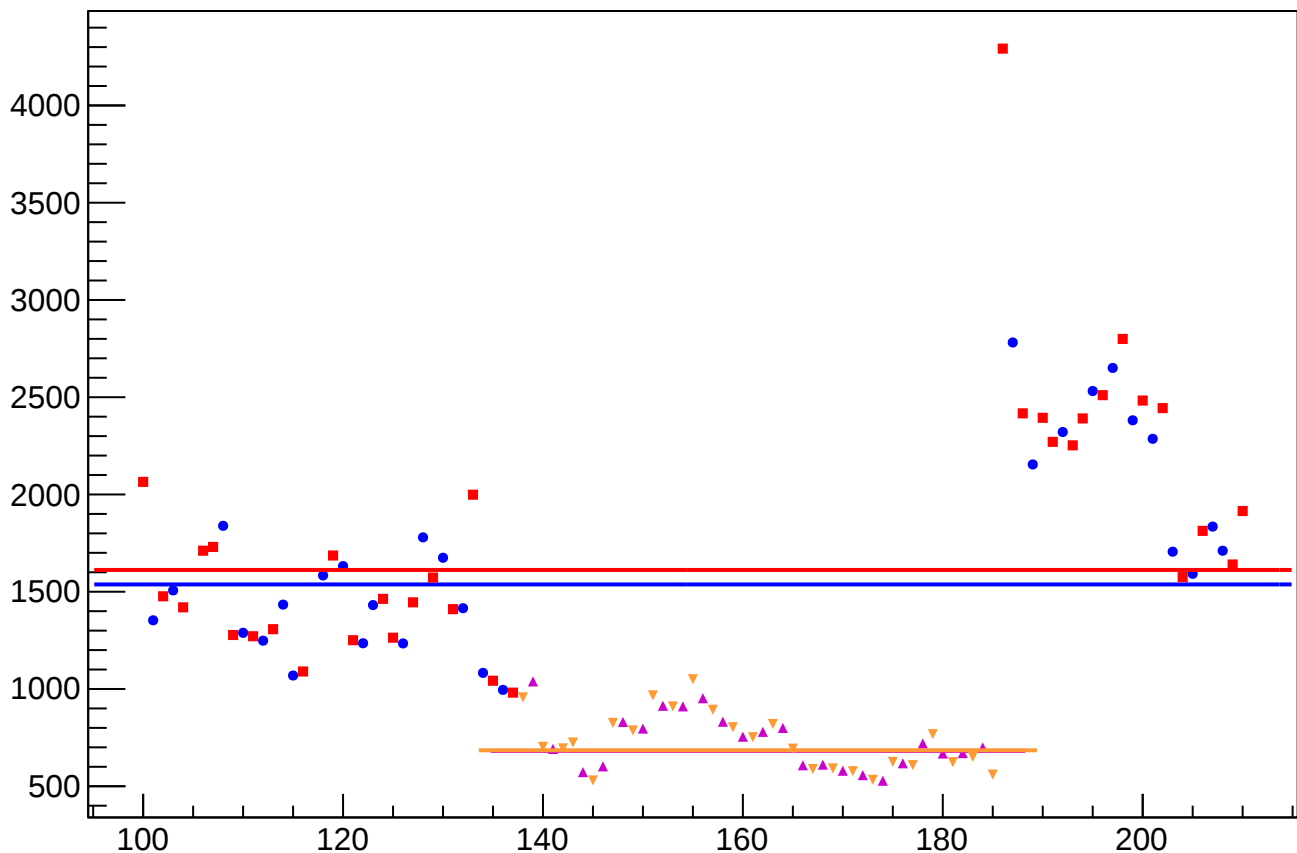
Right: 177.540 ± 296.543 χ^2/NDF : 71.9/60

In: -23.836 ± 154.718 χ^2/NDF : 65.0/50

Out: -516.650 ± 151.449 χ^2/NDF : 112.4/57

All: -275.504 ± 108.228 χ^2/NDF : 182.6/108

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1537.509 $\pm$ 0.300 χ^2/NDF : 2175508.4/27

Left Out: 684.785 $\pm$ 0.115 χ^2/NDF : 1280146.2/24

Right Out: 1611.953 $\pm$ 0.294 χ^2/NDF : 2714191.8/32

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

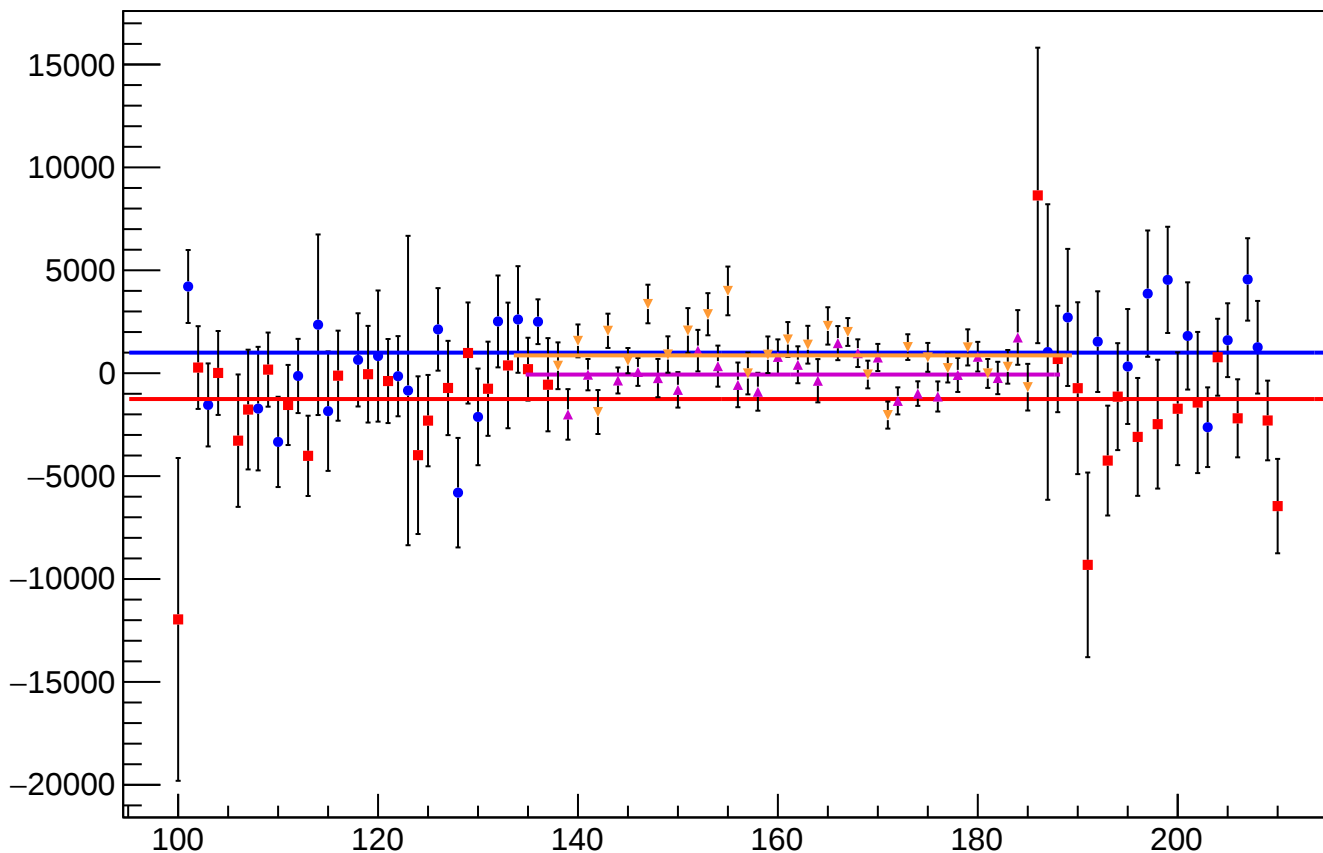
Right: 1575.491 $\pm$ 0.210 χ^2/NDF : 4921197.4/60

In: 795.813 $\pm$ 0.109 χ^2/NDF : 10365847.4/50

Out: 808.170 $\pm$ 0.107 χ^2/NDF : 12641975.2/57

All: 802.124 $\pm$ 0.077 χ^2/NDF : 23014337.9/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 999.468 $\pm$ 425.021 χ^2 /NDF: 32.9/27

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1255.286 $\pm$ 416.567 χ^2 /NDF: 24.0/32

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

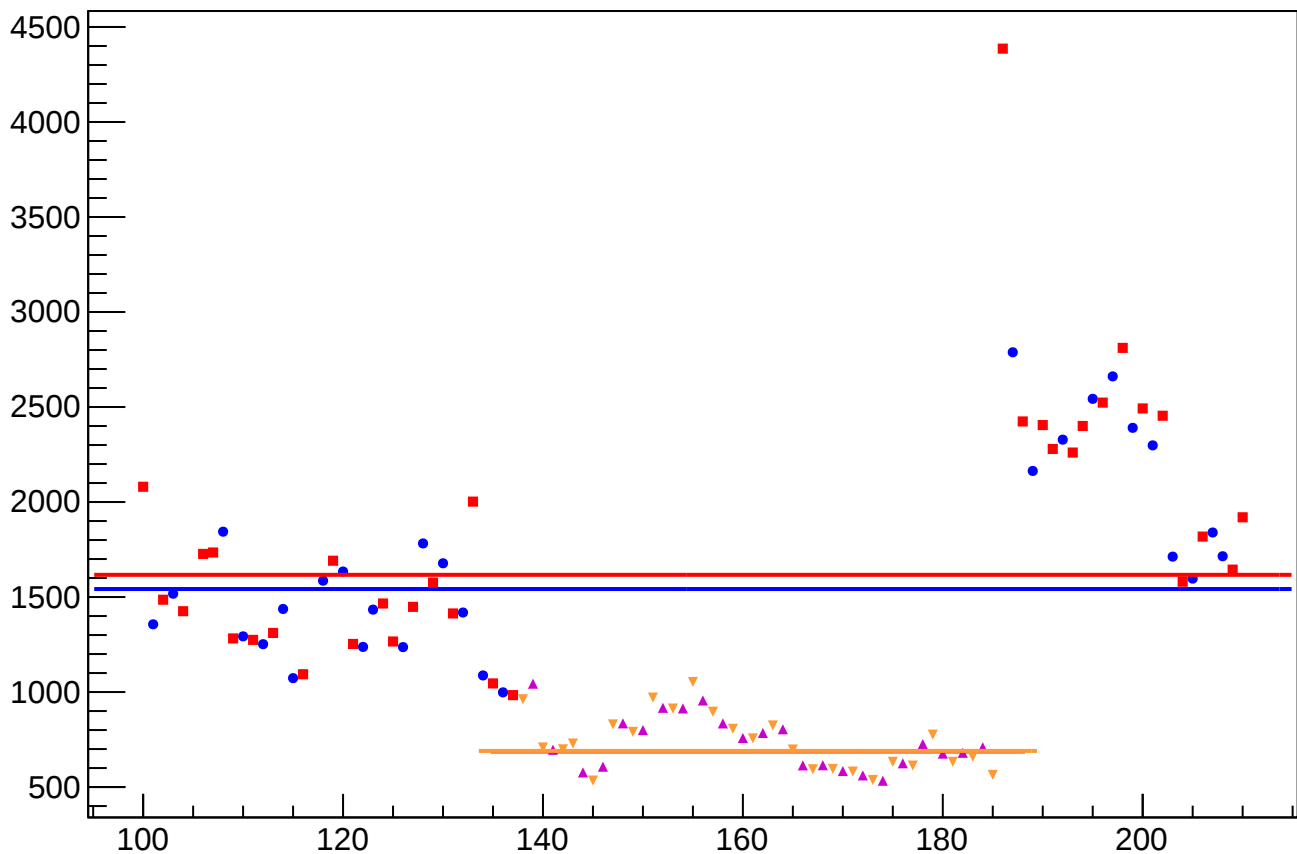
Right: -150.556 $\pm$ 297.501 χ^2 /NDF: 71.2/60

In: 77.278 $\pm$ 155.822 χ^2 /NDF:64.7/50

Out: 581.329 $\pm$ 152.507 χ^2 /NDF:109.3/57

All: 334.722 $\pm$ 108.992 χ^2 /NDF: 179.4/108

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1542.107+/-0.301 χ^2/NDF : 2179590.9/27

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1616.831+/-0.295 χ^2/NDF : 2726537.1/32

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

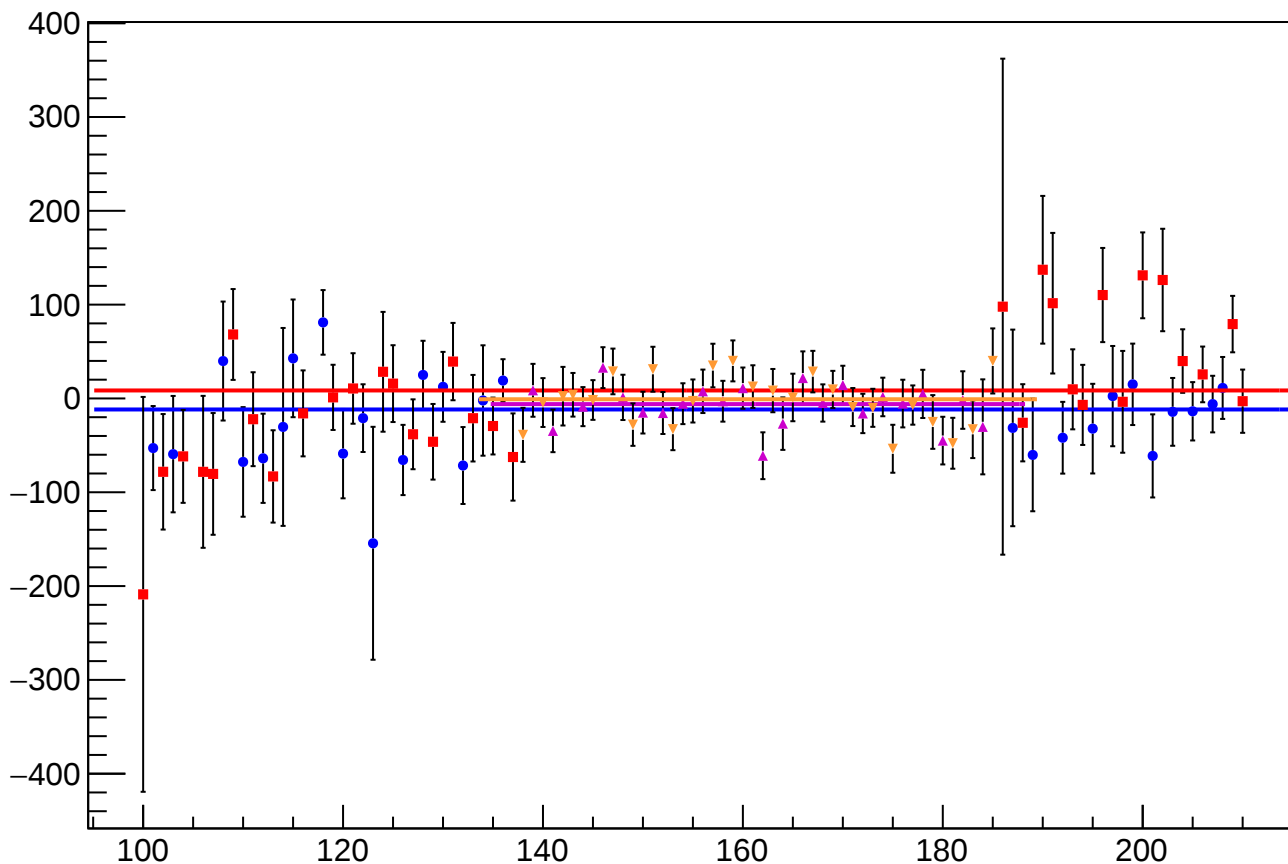
Right: 1580.219+/-0.210 χ^2/NDF : 4937658.6/60

In: 802.124+/-0.110 χ^2/NDF : 10283221.8/50

Out: 814.370+/-0.108 χ^2/NDF : 12555198.4/57

All: 808.379+/-0.077 χ^2/NDF : 22844728.8/10

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -11.761 ± 7.930 $\chi^2/\text{NDF}: 25.8/27$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: 8.511 ± 7.736 $\chi^2/\text{NDF}: 50.2/32$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

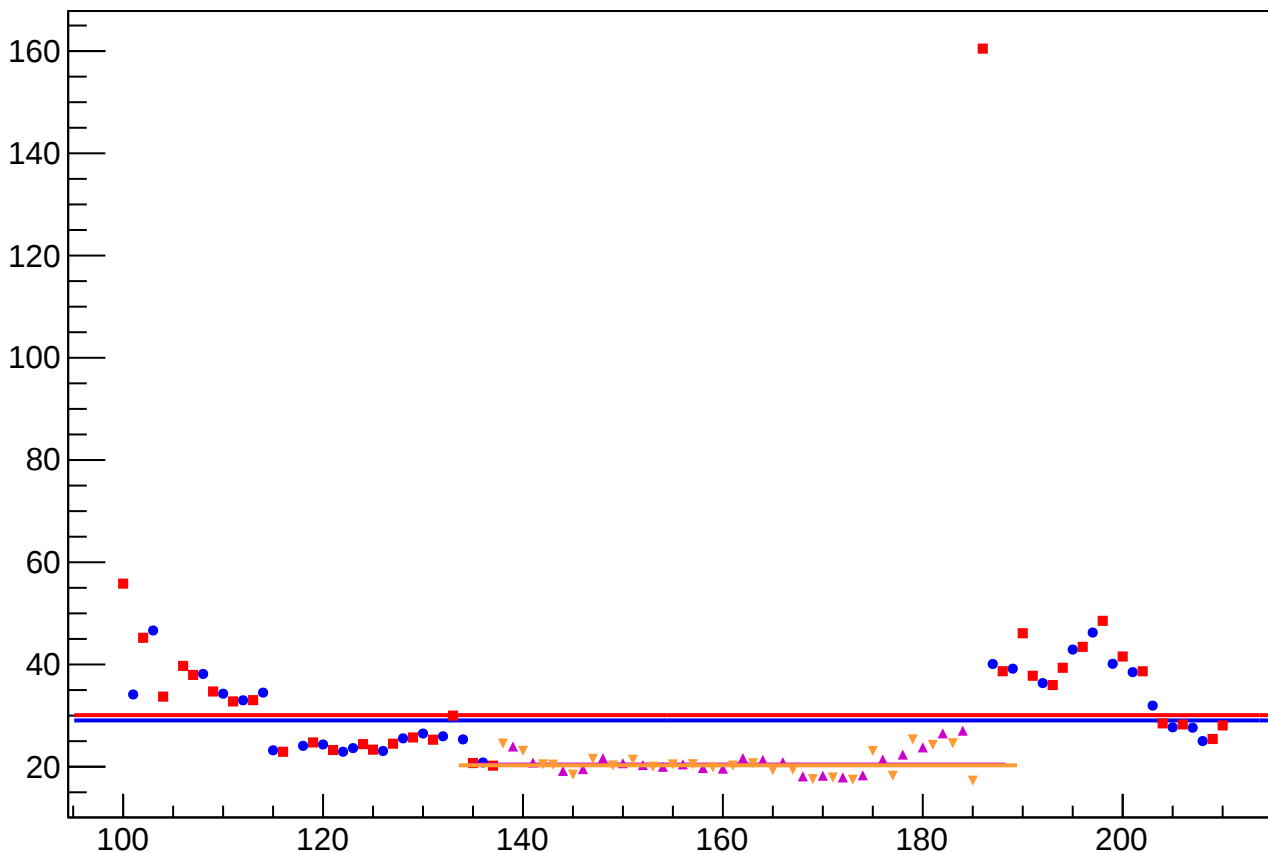
Right: -1.375 ± 5.538 $\chi^2/\text{NDF}: 79.4/60$

In: -7.634 ± 4.184 $\chi^2/\text{NDF}: 43.1/50$

Out: 1.713 ± 4.054 $\chi^2/\text{NDF}: 79.2/57$

All: -2.814 ± 2.912 $\chi^2/\text{NDF}: 124.9/108$

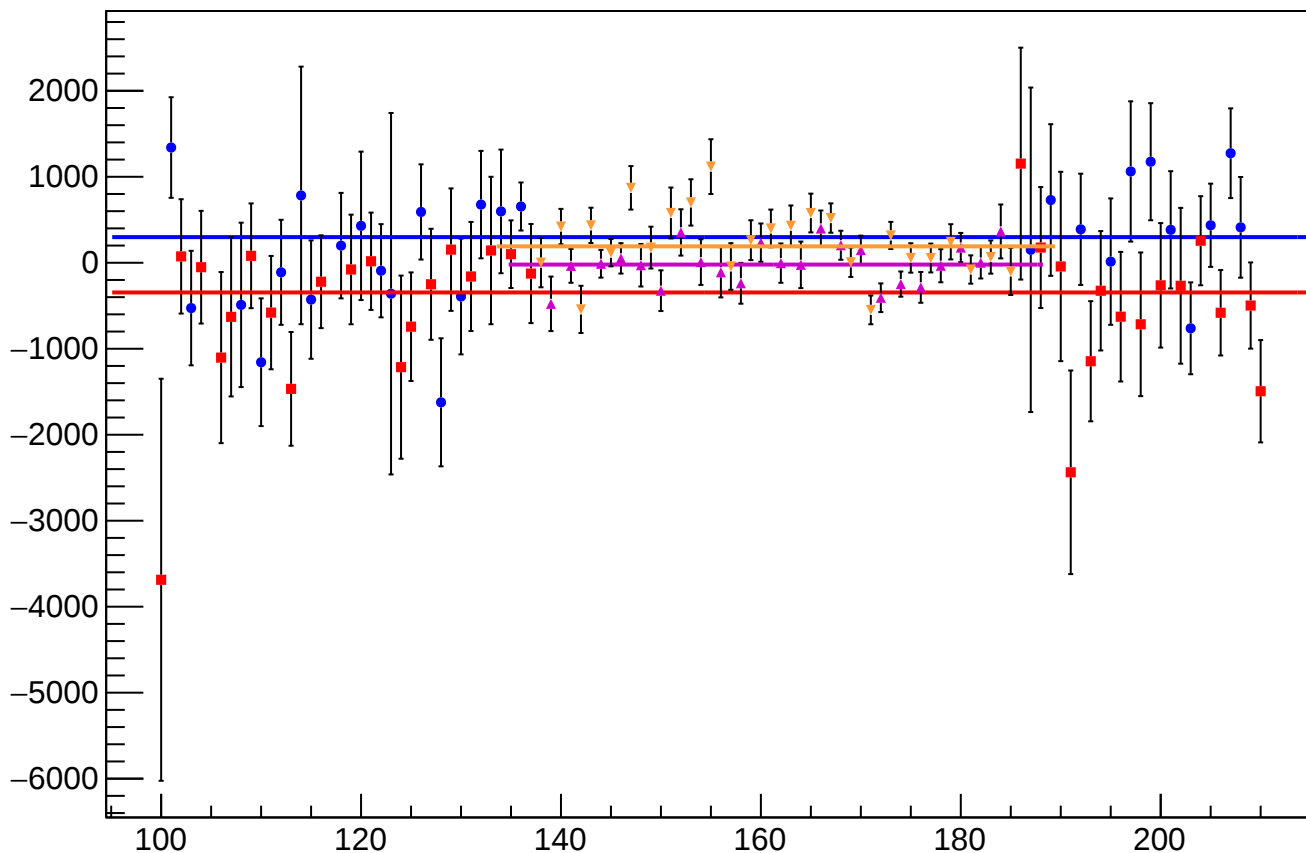
reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.053+/-0.006 χ^2/NDF : 1562256.6/27
 Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24
 Right Out: 30.089+/-0.005 χ^2/NDF : 2285126.3/32
 Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47
 Right: 29.584+/-0.004 χ^2/NDF : 3864881.9/60
 In: 22.826+/-0.003 χ^2/NDF : 3594817.1/50
 Out: 22.973+/-0.003 χ^2/NDF : 5024854.7/57
 All: 22.902+/-0.002 χ^2/NDF : 8620949.9/108

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 298.220 ± 118.254 χ^2/NDF : 32.2/27

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -345.317 ± 116.670 χ^2/NDF : 22.9/32

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

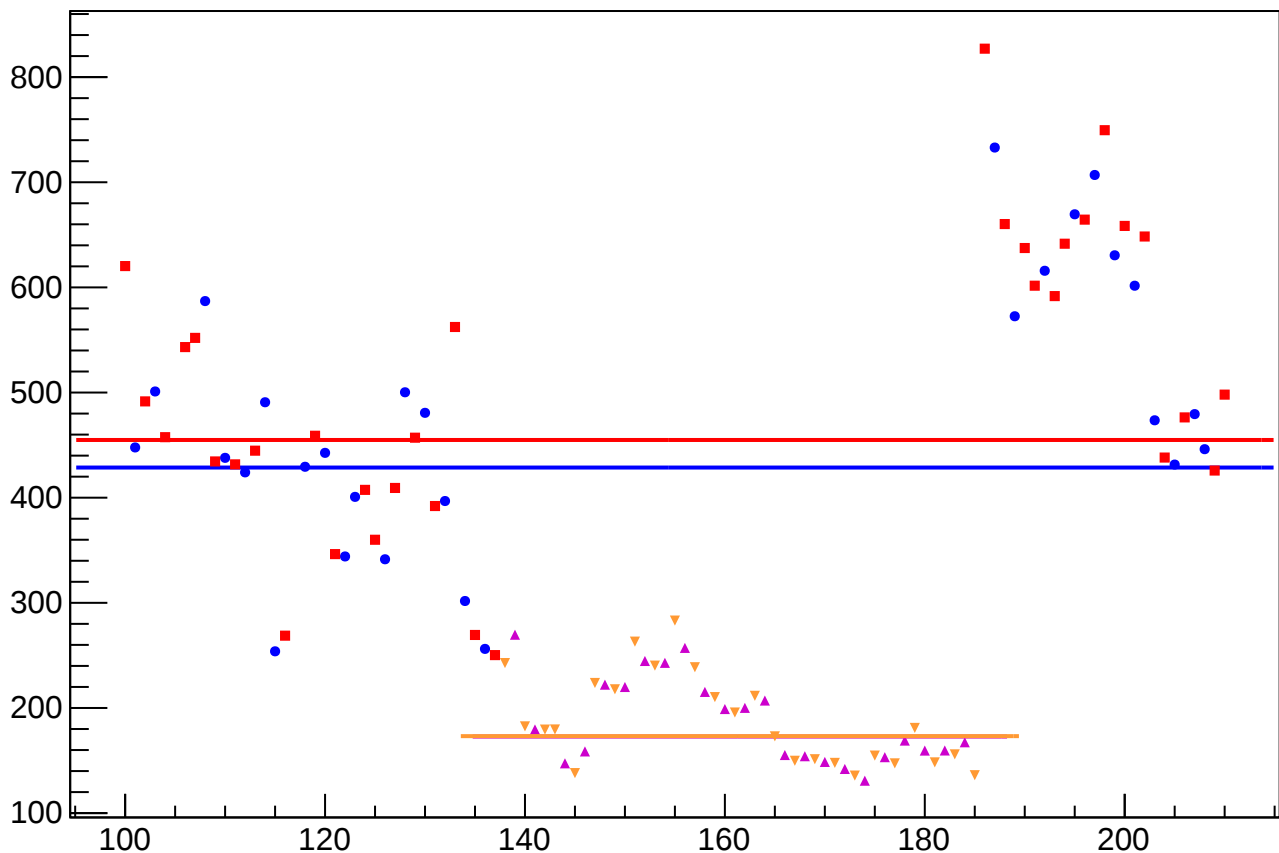
Right: -27.887 ± 83.053 χ^2/NDF : 70.1/60

In: 15.199 ± 39.821 χ^2/NDF : 66.4/50

Out: 131.125 ± 38.944 χ^2/NDF : 109.5/57

All: 74.452 ± 27.842 χ^2/NDF : 180.3/108

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 428.671+/-0.084 χ^2/NDF : 2232295.2/27

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 454.887+/-0.082 χ^2/NDF : 2483356.1/32

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

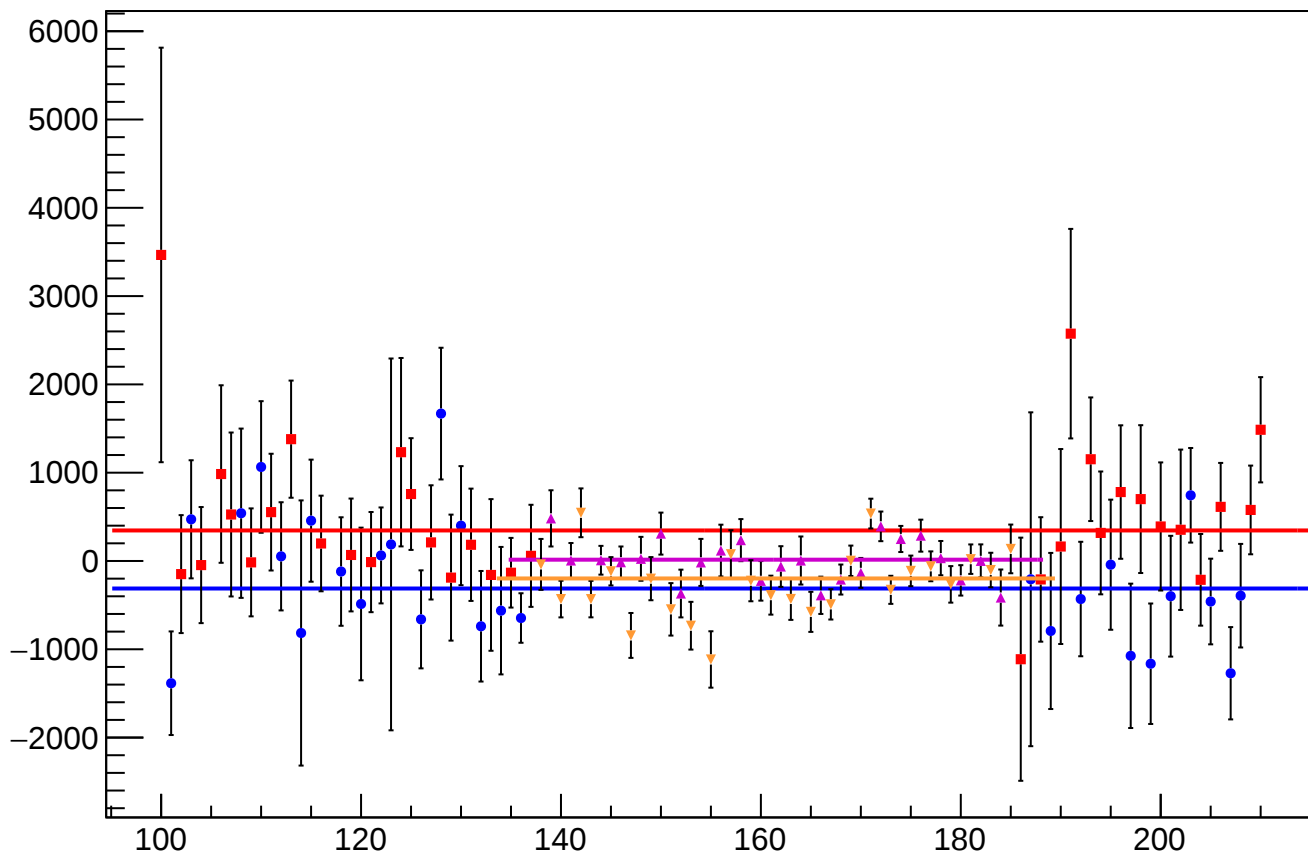
Right: 441.956+/-0.059 χ^2/NDF : 4765460.1/60

In: 201.839+/-0.028 χ^2/NDF :11904412.0/50

Out: 204.595+/-0.028 χ^2/NDF :14403376.0/57

All: 203.247+/-0.020 χ^2/NDF : 26312684.2/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -311.816 $\pm$ 118.565 χ^2/NDF : 32.1/27

Left Out: -197.918 $\pm$ 41.638 χ^2/NDF : 64.3/24

Right Out: 345.750 $\pm$ 116.993 χ^2/NDF : 23.0/32

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

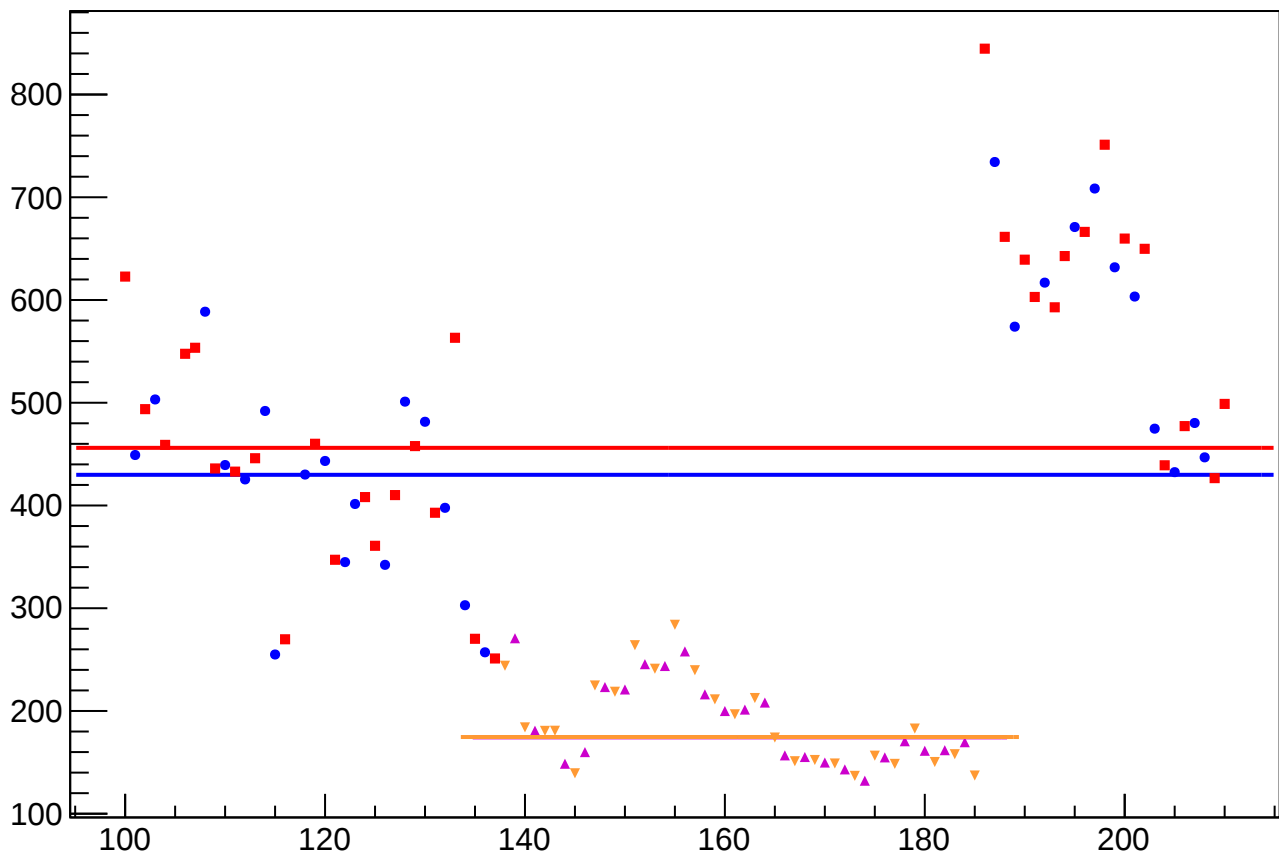
Right: 21.356 $\pm$ 83.277 χ^2/NDF : 70.7/60

In: -22.752 $\pm$ 40.115 χ^2/NDF : 66.6/50

Out: -136.795 $\pm$ 39.228 χ^2/NDF : 106.4/57

All: -81.049 $\pm$ 28.047 χ^2/NDF : 177.1/108

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 429.858 $\pm$ 0.084 χ^2/NDF : 2225692.1/27

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 456.107 $\pm$ 0.083 χ^2/NDF : 2486318.8/32

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

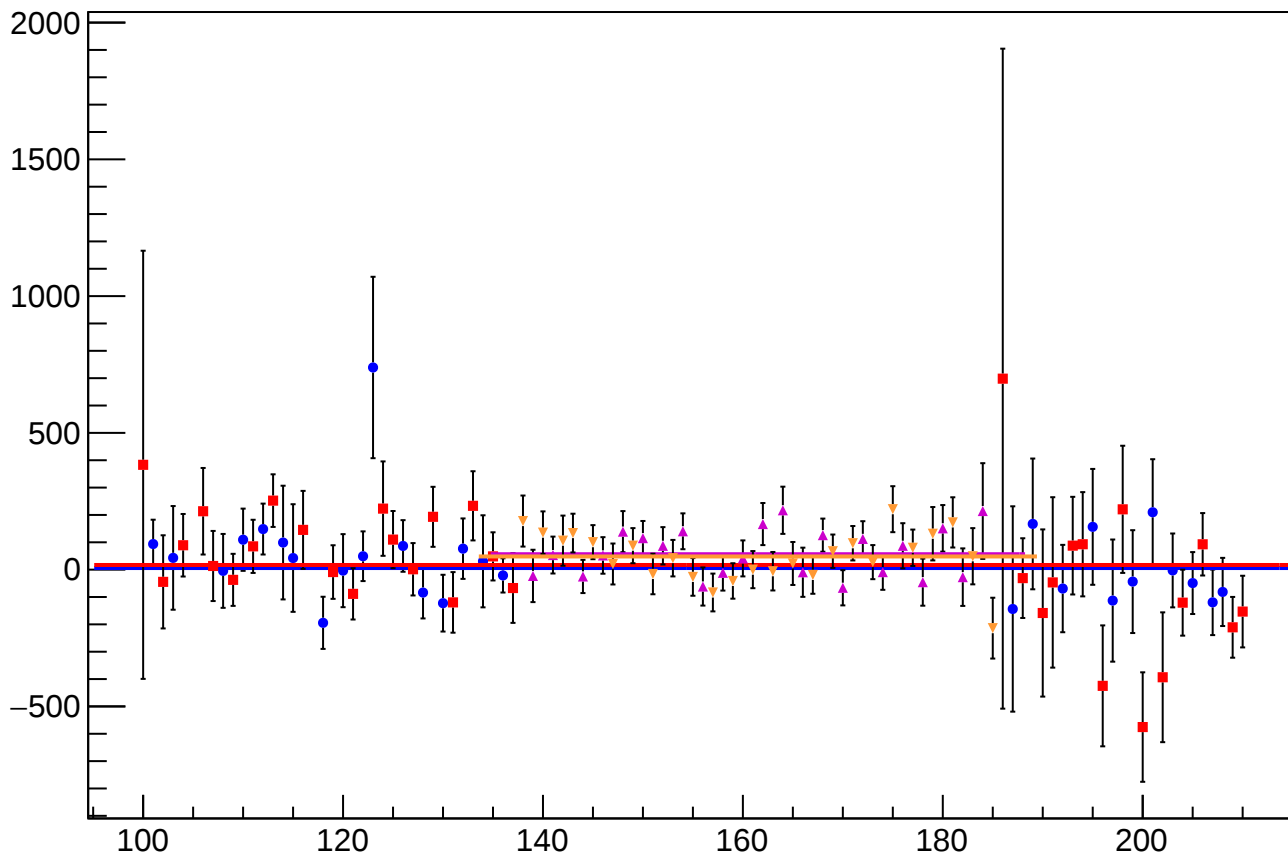
Right: 443.158 $\pm$ 0.059 χ^2/NDF : 4761679.1/60

In: 203.544 $\pm$ 0.028 χ^2/NDF :11799292.4/50

Out: 206.291 $\pm$ 0.028 χ^2/NDF :14292508.7/57

All: 204.949 $\pm$ 0.020 χ^2/NDF : 26096595.5/10

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 5.904 ± 23.153 $\chi^2/\text{NDF}: 22.4/27$

Left Out: 48.233 ± 14.616 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 17.056 ± 22.637 $\chi^2/\text{NDF}: 46.4/32$

Left In: 56.403 ± 15.182 $\chi^2/\text{NDF}: 27.5/22$

Left: 52.163 ± 10.529 $\chi^2/\text{NDF}: 56.9/47$

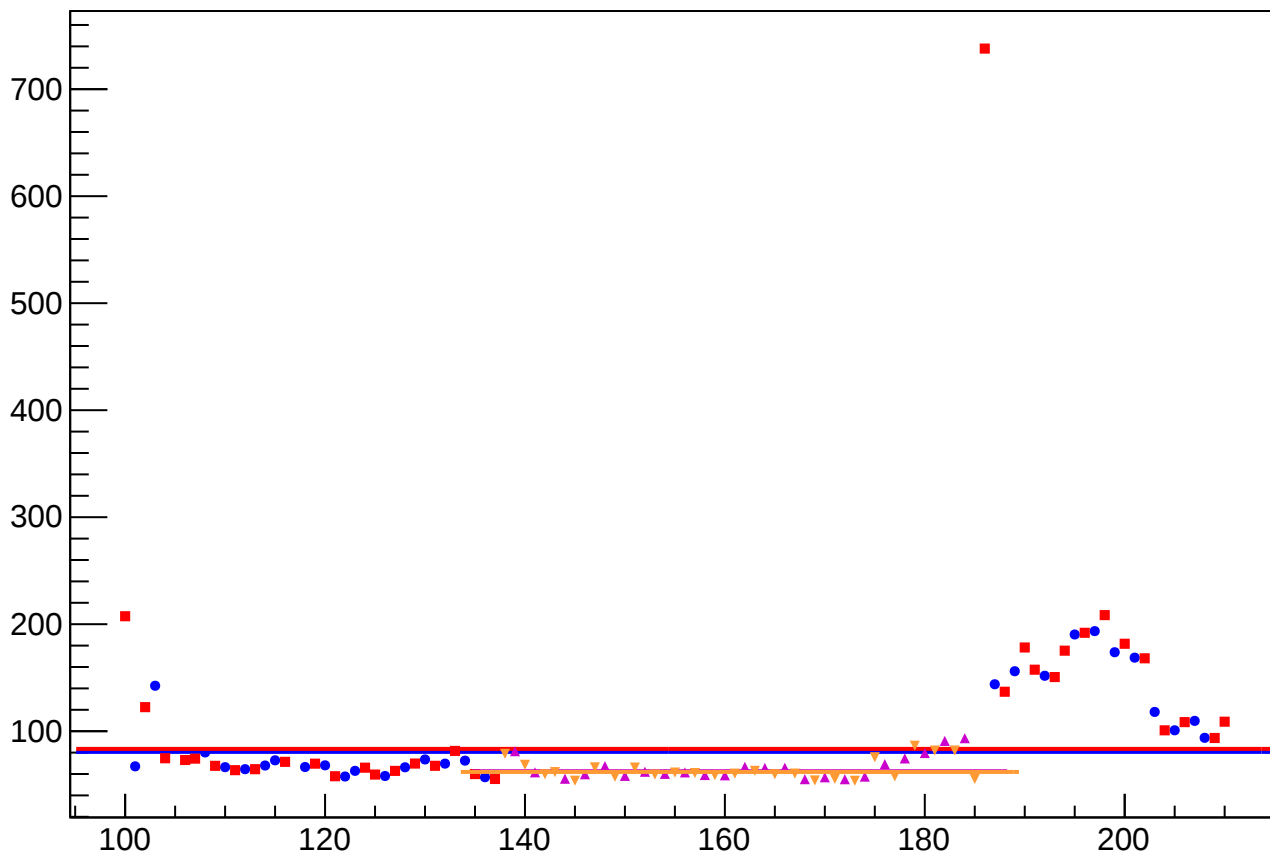
Right: 11.606 ± 16.186 $\chi^2/\text{NDF}: 68.8/60$

In: 41.219 ± 12.696 $\chi^2/\text{NDF}: 53.2/50$

Out: 39.060 ± 12.279 $\chi^2/\text{NDF}: 77.0/57$

All: 40.103 ± 8.826 $\chi^2/\text{NDF}: 130.1/108$

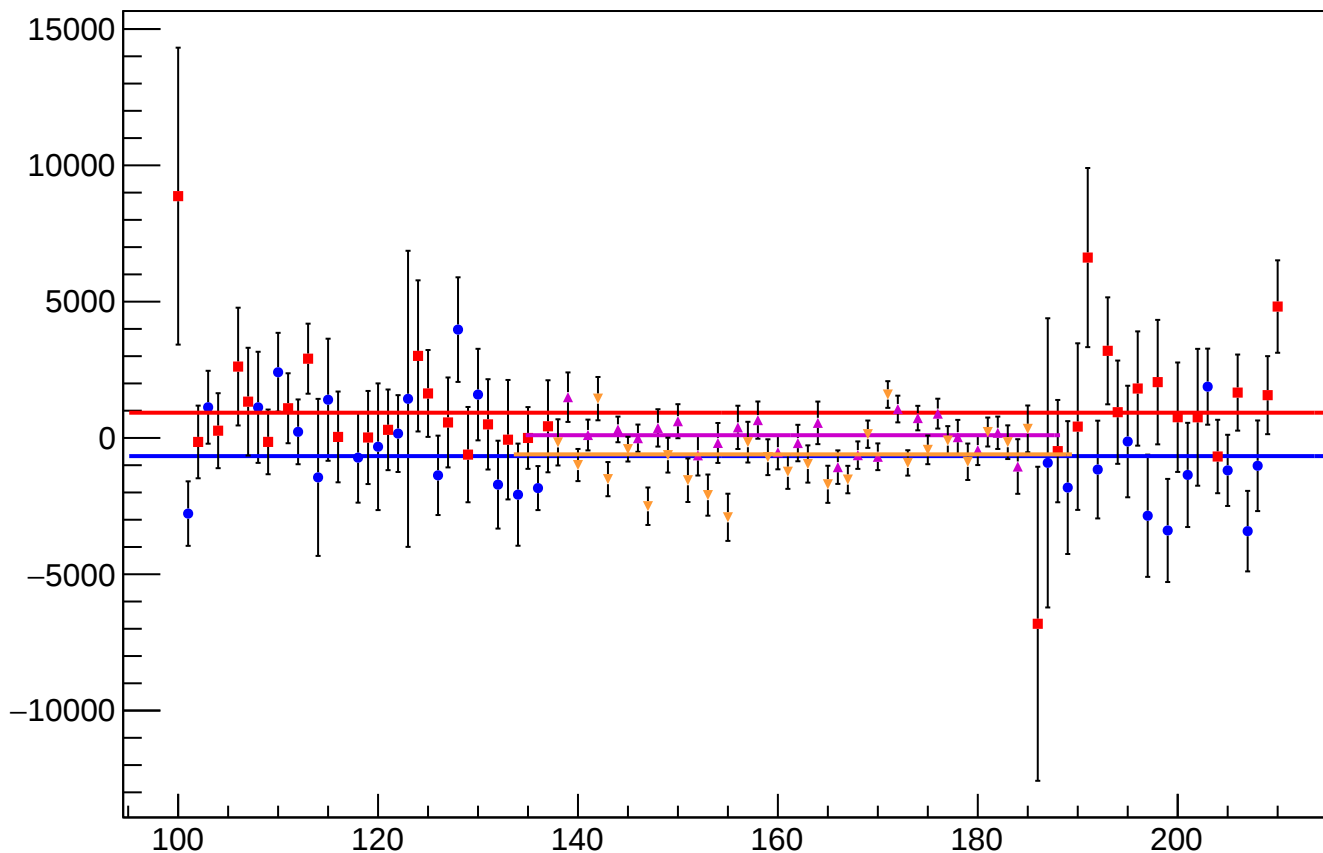
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 80.677+/-0.016 χ^2/NDF : 3996985.0/27
 Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24
 Right Out: 83.473+/-0.016 χ^2/NDF : 5072245.7/32
 Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47
 Right: 82.107+/-0.011 χ^2/NDF : 9084140.0/60
 In: 68.040+/-0.009 χ^2/NDF : 5424413.2/50
 Out: 68.280+/-0.009 χ^2/NDF : 6953730.2/57
 All: 68.164+/-0.006 χ^2/NDF : 12378511.7/108

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -666.094 $\pm$ 303.737 χ^2 /NDF: 33.8/27

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 926.251 $\pm$ 296.419 χ^2 /NDF: 24.6/32

Left In: 100.548 $\pm$ 124.725 χ^2 /NDF:25.5/22

Left: -257.880 $\pm$ 87.258 χ^2 /NDF: 107.0/47

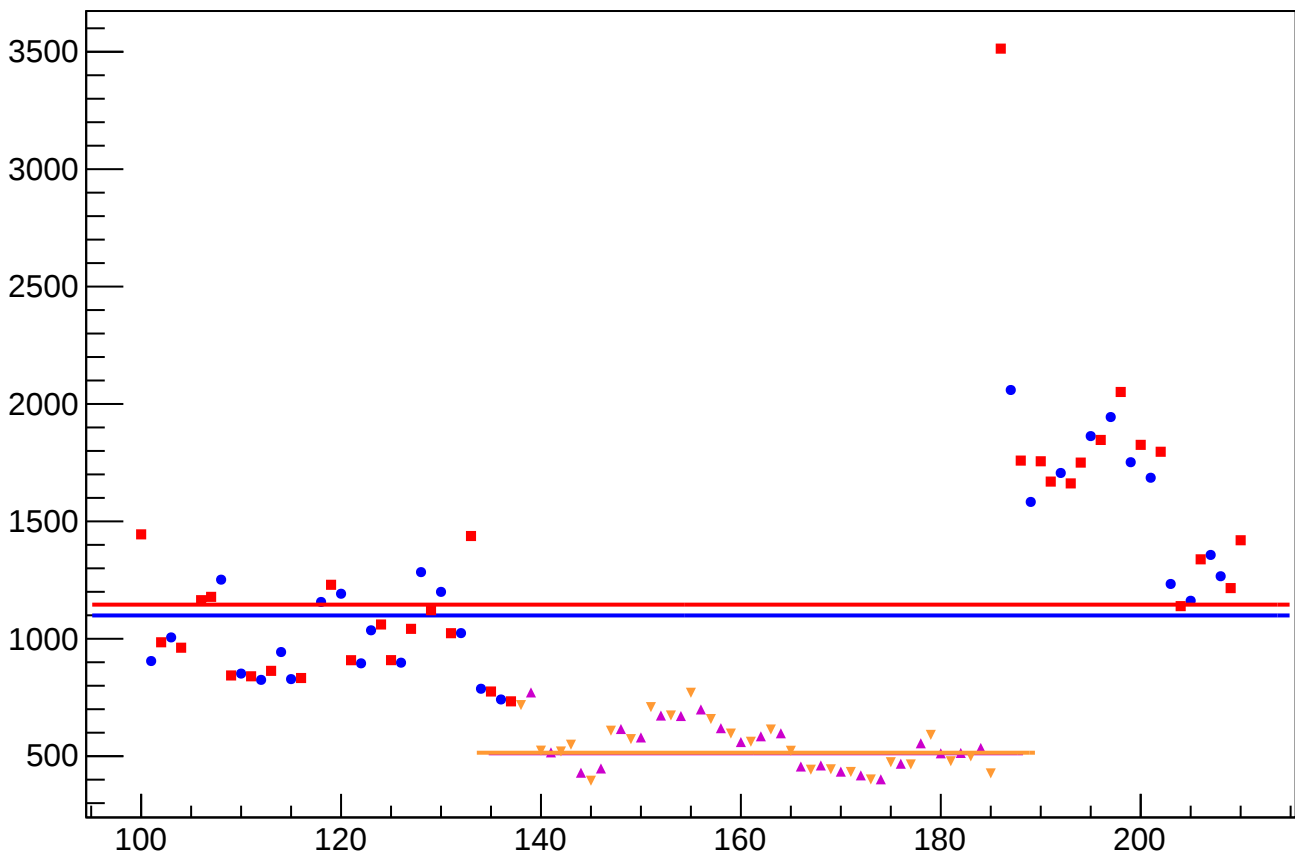
Right: 149.490 $\pm$ 212.140 χ^2 /NDF: 72.5/60

In: -10.071 $\pm$ 115.376 χ^2 /NDF:64.7/50

Out: -379.812 $\pm$ 112.912 χ^2 /NDF:112.7/57

All: -198.932 $\pm$ 80.698 χ^2 /NDF: 182.6/108

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1099.331+/-0.215 χ^2/NDF : 2306610.1/27

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1145.395+/-0.210 χ^2/NDF : 2992994.2/32

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

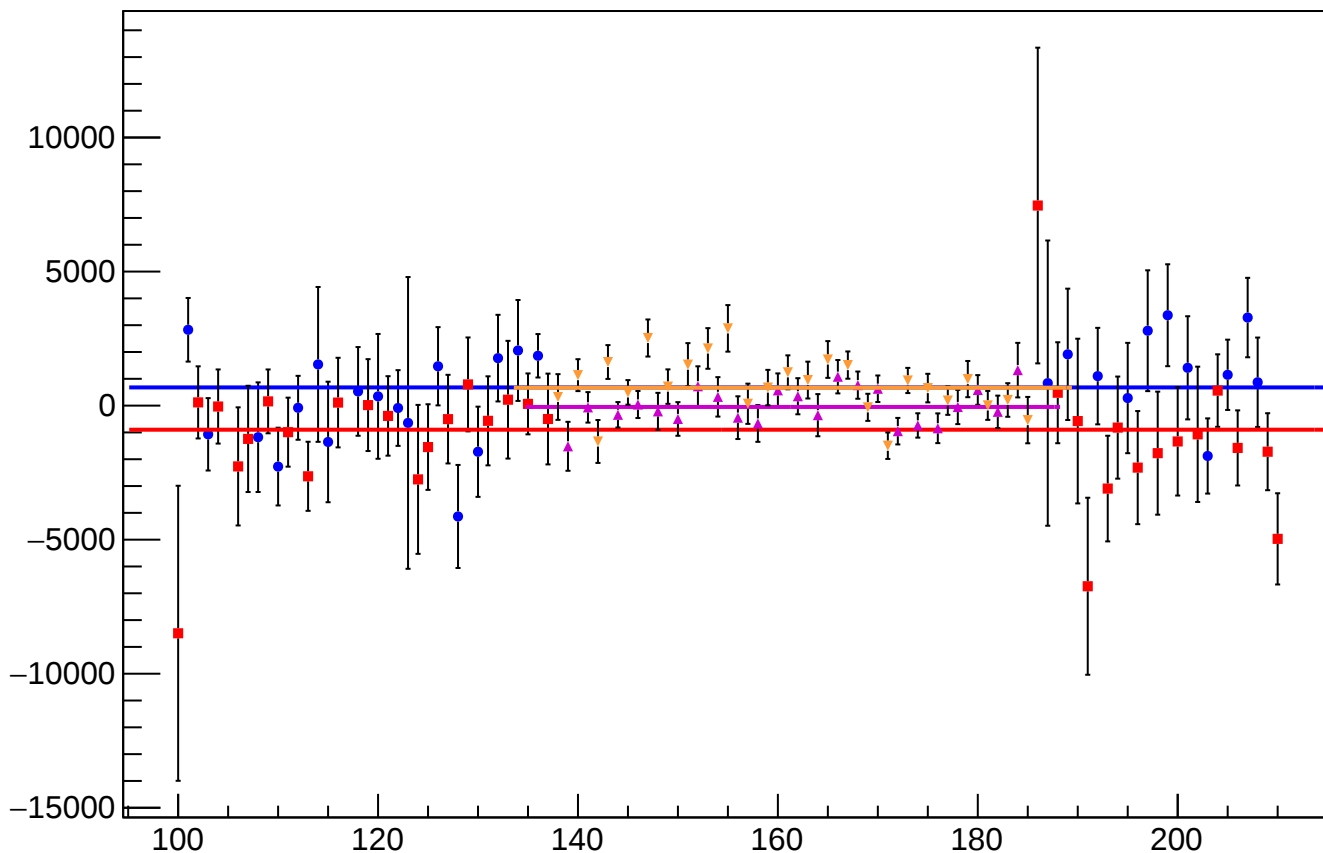
Right: 1122.925+/-0.150 χ^2/NDF : 5323165.6/60

In: 596.917+/-0.082 χ^2/NDF :9742804.7/50

Out: 606.263+/-0.080 χ^2/NDF :11927076.7/57

All: 601.691+/-0.057 χ^2/NDF : 21676585.2/100

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 678.852+/-304.873 χ^2/NDF : 33.3/27

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -898.666+/-297.642 χ^2/NDF : 24.4/32

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

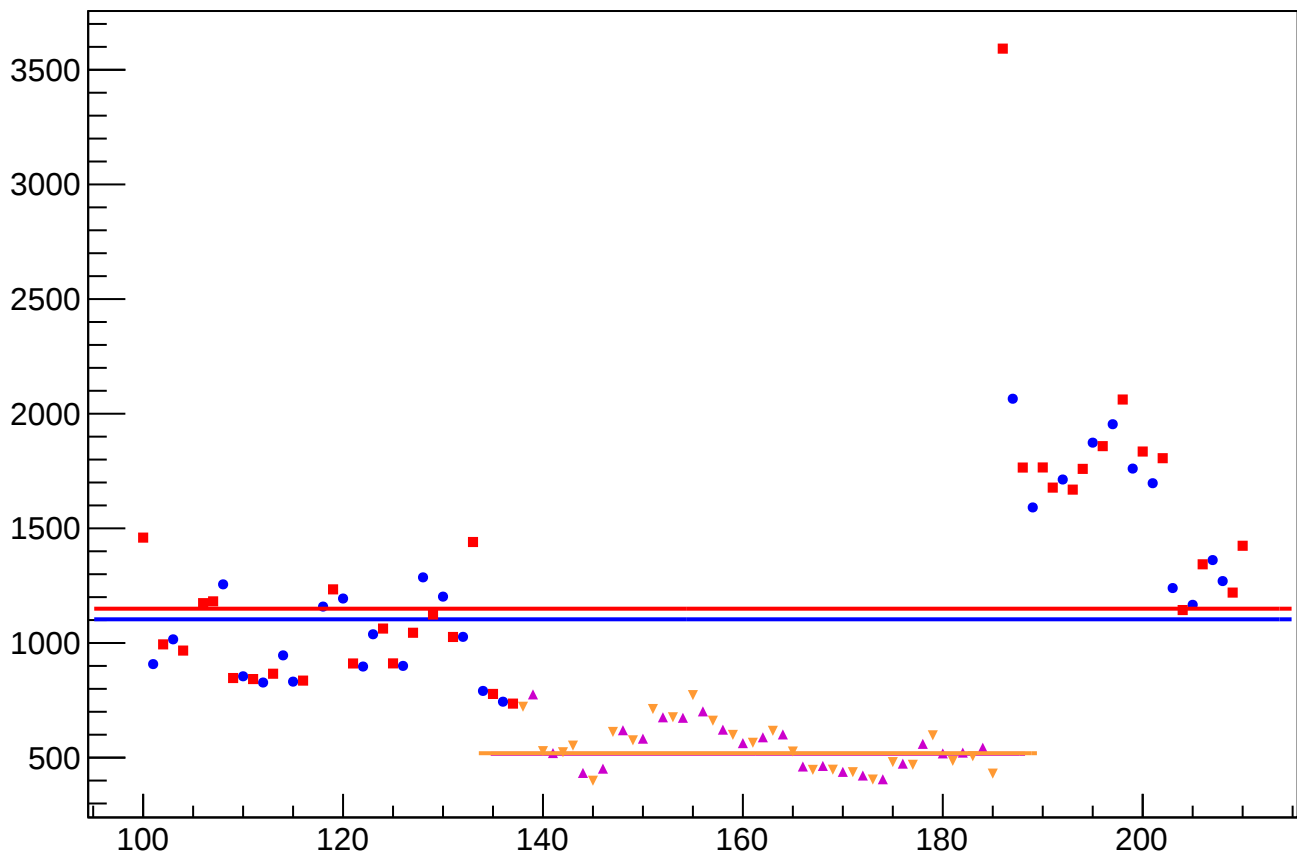
Right: -128.836+/-212.975 χ^2/NDF : 71.4/60

In: 55.982+/-116.293 χ^2/NDF : 64.3/50

Out: 438.698+/-113.791 χ^2/NDF : 109.5/57

All: 251.501+/-81.332 χ^2/NDF : 179.3/108

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1103.306 $\pm$ 0.216 χ^2/NDF : 2313436.1/27

Left Out: 519.254 $\pm$ 0.087 χ^2/NDF : 1172411.1/24

Right Out: 1149.598 $\pm$ 0.210 χ^2/NDF : 3007280.8/32

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

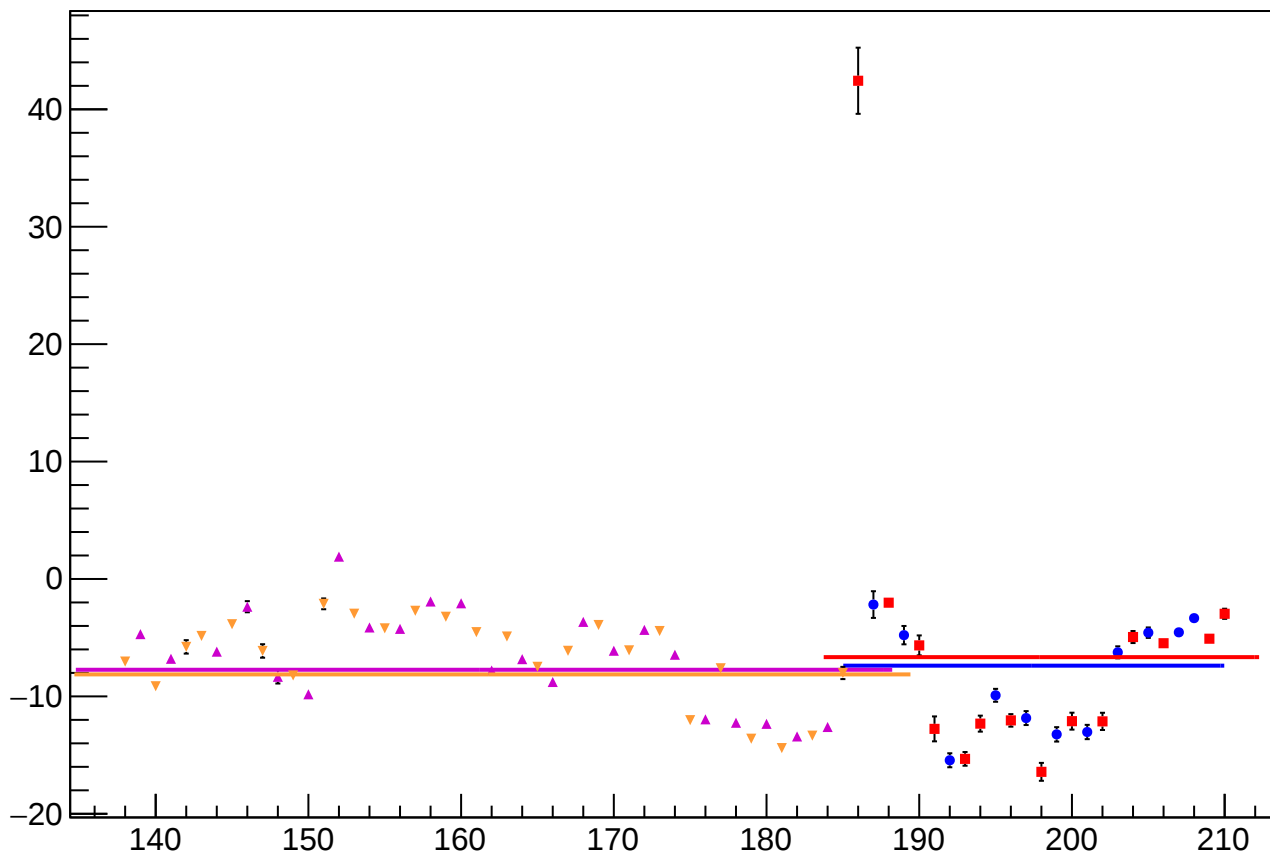
Right: 1127.008 $\pm$ 0.151 χ^2/NDF : 5344325.6/60

In: 602.131 $\pm$ 0.082 χ^2/NDF : 9659799.7/50

Out: 611.384 $\pm$ 0.080 χ^2/NDF : 11838702.9/57

All: 606.858 $\pm$ 0.058 χ^2/NDF : 21504971.9/10

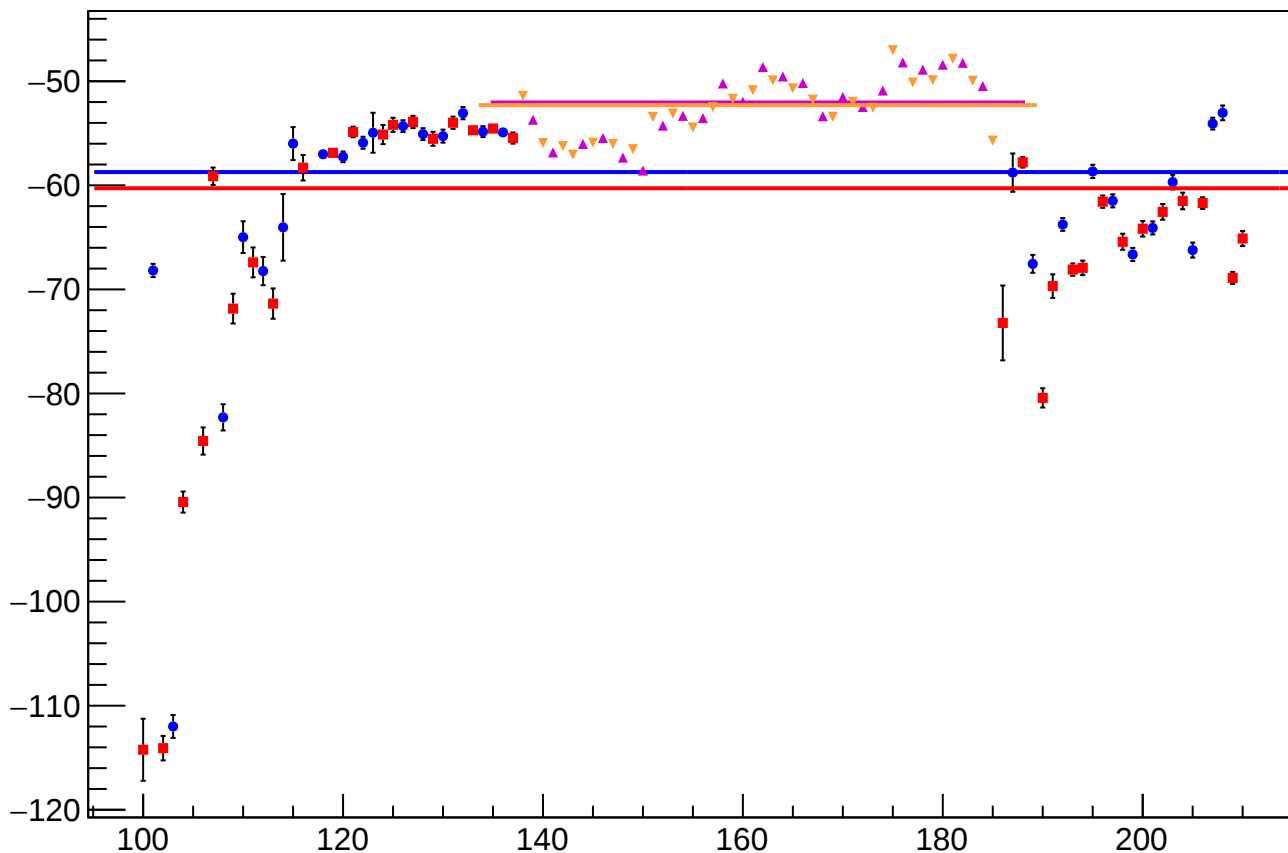
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.383 ± 0.159 χ^2/NDF : 682.0/10
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -6.657 ± 0.139 χ^2/NDF : 1315.9/13
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -6.971 ± 0.105 χ^2/NDF : 2009.7/24
 In: -7.677 ± 0.063 χ^2/NDF : 4405.1/33
 Out: -7.848 ± 0.061 χ^2/NDF : 5041.9/38
 All: -7.766 ± 0.044 χ^2/NDF : 9450.8/72

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.725 ± 0.118 $\chi^2/\text{NDF}: 4186.0/27$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -60.282 ± 0.114 $\chi^2/\text{NDF}: 6252.4/32$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

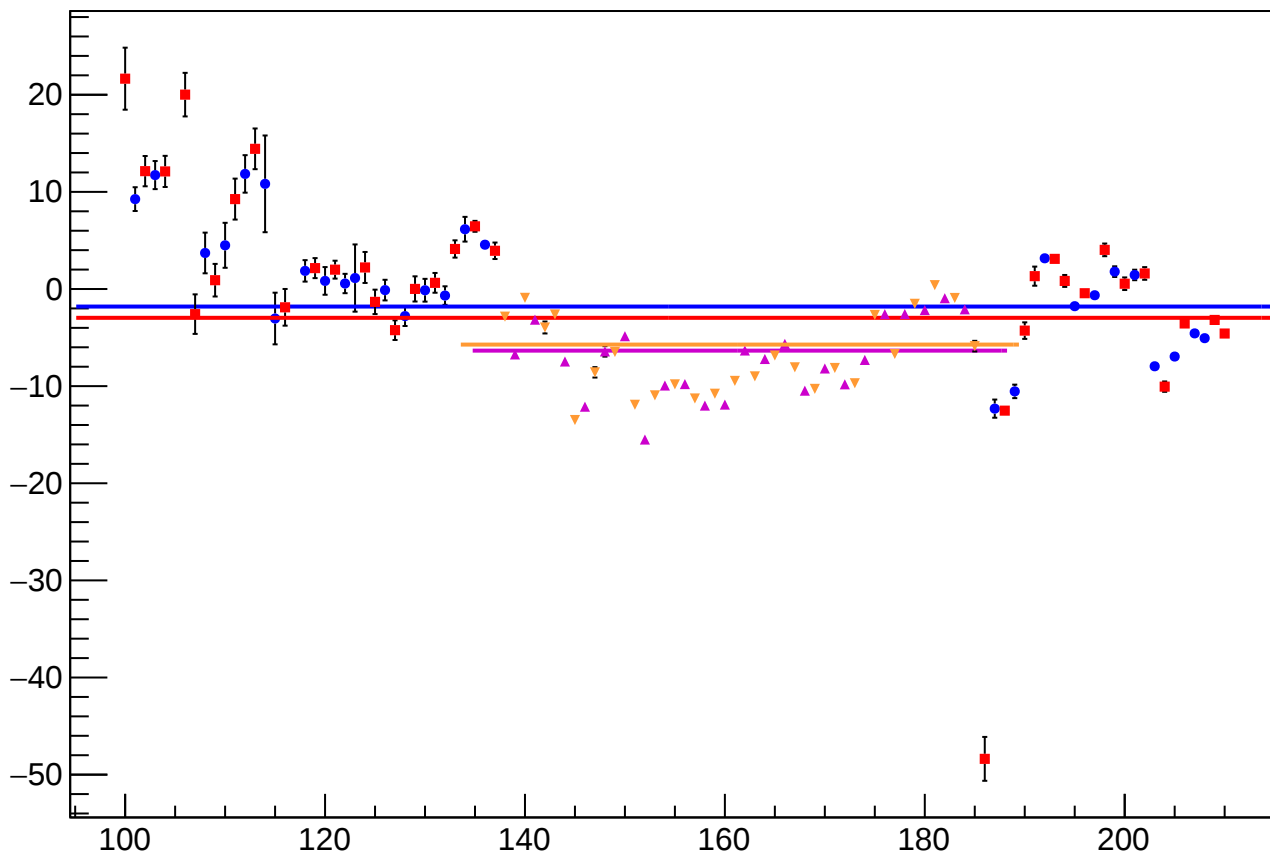
Right: -59.531 ± 0.082 $\chi^2/\text{NDF}: 10528.9/60$

In: -53.313 ± 0.051 $\chi^2/\text{NDF}: 9976.8/50$

Out: -53.814 ± 0.050 $\chi^2/\text{NDF}: 12905.3/57$

All: -53.573 ± 0.036 $\chi^2/\text{NDF}: 22931.3/108$

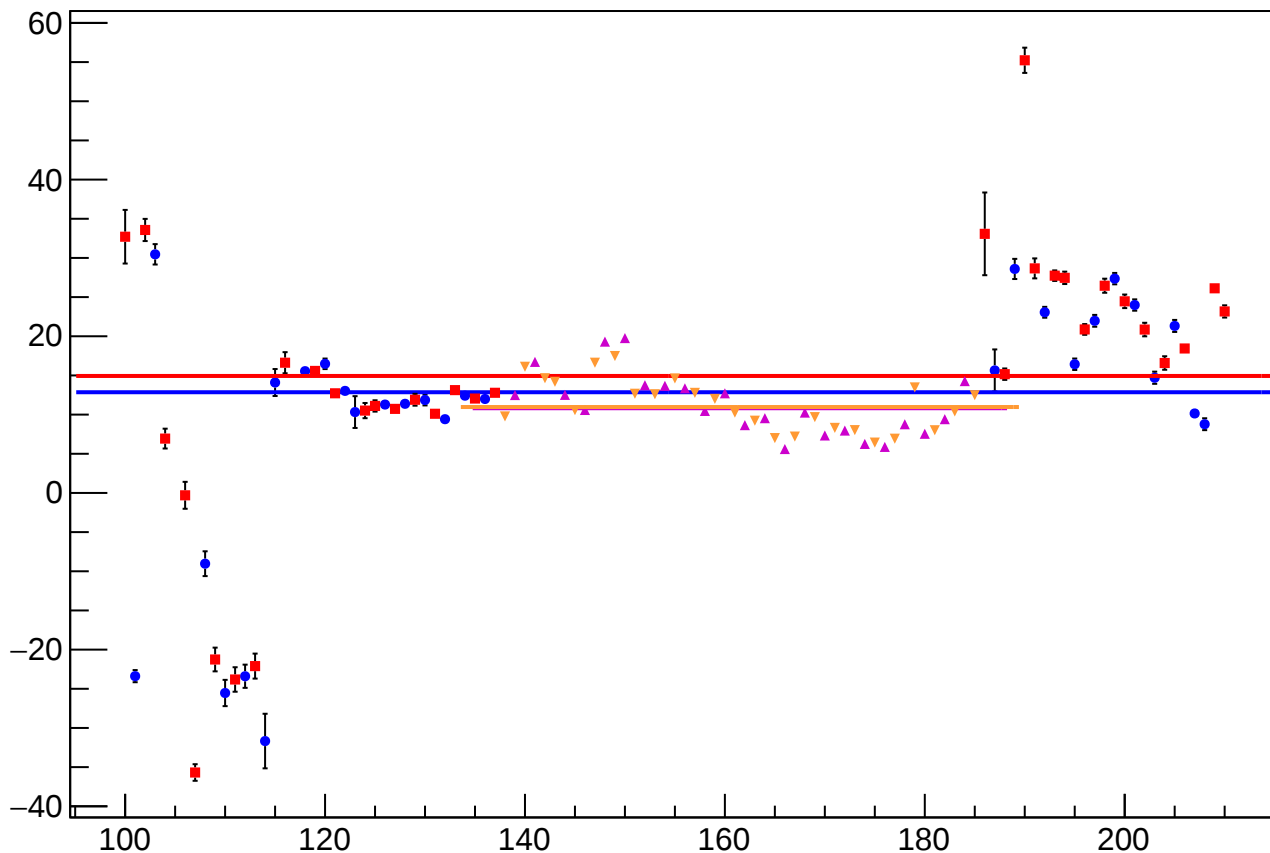
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.806 ± 0.129 χ^2/NDF : 1416.3/27
 Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24
 Right Out: -2.966 ± 0.115 χ^2/NDF : 3204.9/32
 Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47
 Right: -2.450 ± 0.086 χ^2/NDF : 4666.0/60
 In: -5.343 ± 0.061 χ^2/NDF : 5764.3/50
 Out: -5.018 ± 0.058 χ^2/NDF : 7612.5/57
 All: -5.174 ± 0.042 χ^2/NDF : 13391.7/108

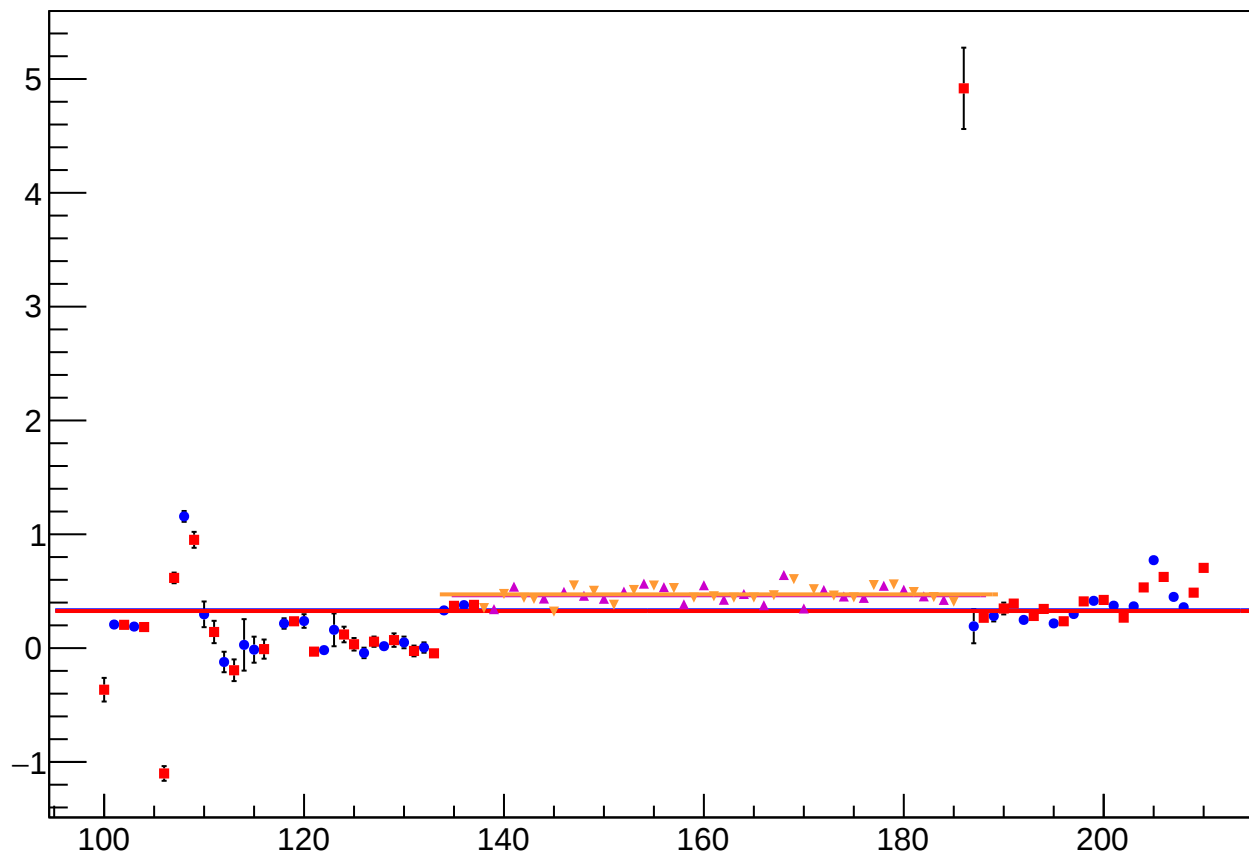
reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.856 $\pm$ 0.131 χ^2 /NDF: 5306.5/27
 Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24
 Right Out: 14.934 $\pm$ 0.129 χ^2 /NDF: 6868.8/32
 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: 13.913 $\pm$ 0.092 χ^2 /NDF: 12302.7/60
 In: 11.197 $\pm$ 0.057 χ^2 /NDF:9049.7/50
 Out: 11.699 $\pm$ 0.055 χ^2 /NDF:10277.1/57
 All: 11.454 $\pm$ 0.040 χ^2 /NDF: 19366.9/108

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.006 χ^2 /NDF: 912.9/27

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.326 $\pm$ 0.006 χ^2 /NDF: 1655.4/32

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

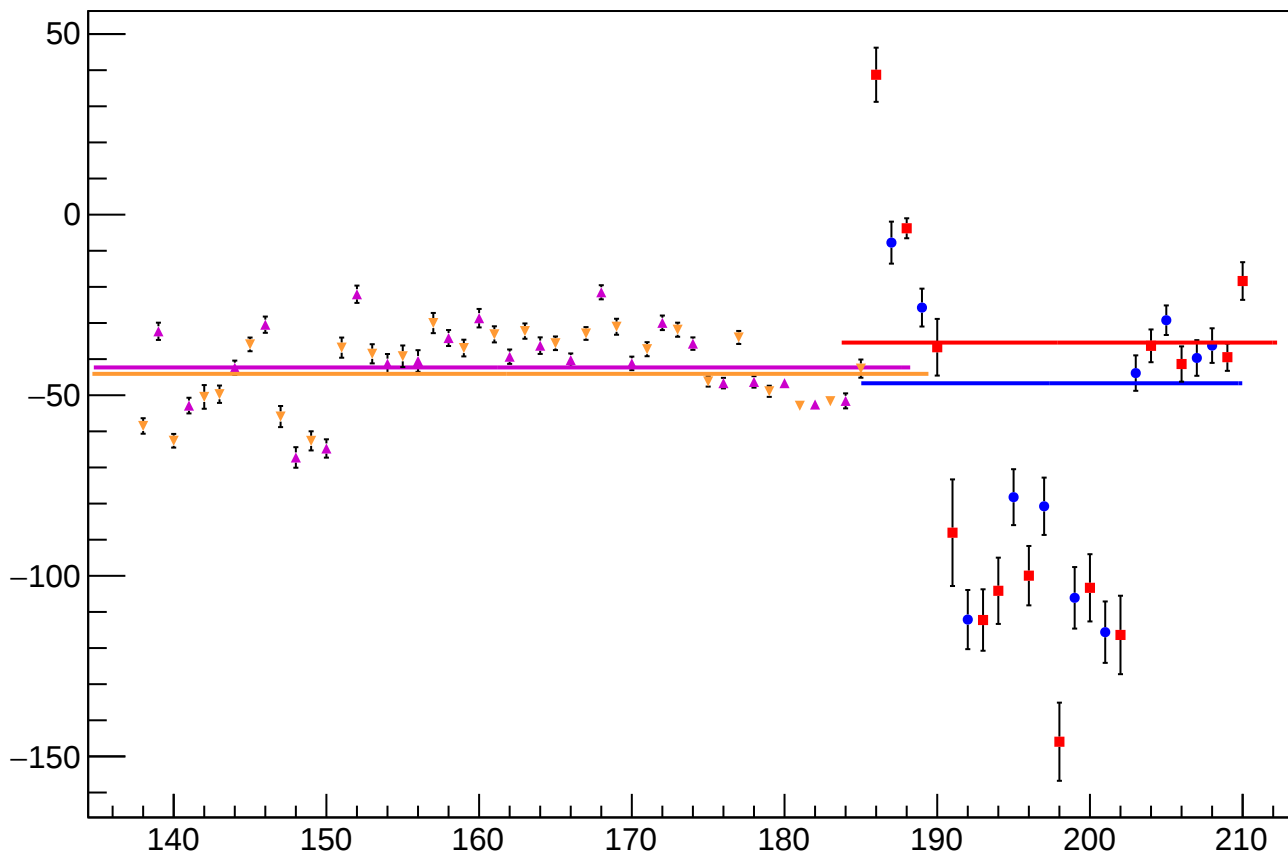
Right: 0.329 $\pm$ 0.004 χ^2 /NDF: 2568.9/60

In: 0.439 $\pm$ 0.002 χ^2 /NDF: 2079.7/50

Out: 0.444 $\pm$ 0.002 χ^2 /NDF: 2718.6/57

All: 0.441 $\pm$ 0.002 χ^2 /NDF: 4800.5/108

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -46.686 ± 1.749 χ^2/NDF : 299.2/10

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -35.422 ± 1.515 χ^2/NDF : 667.2/13

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

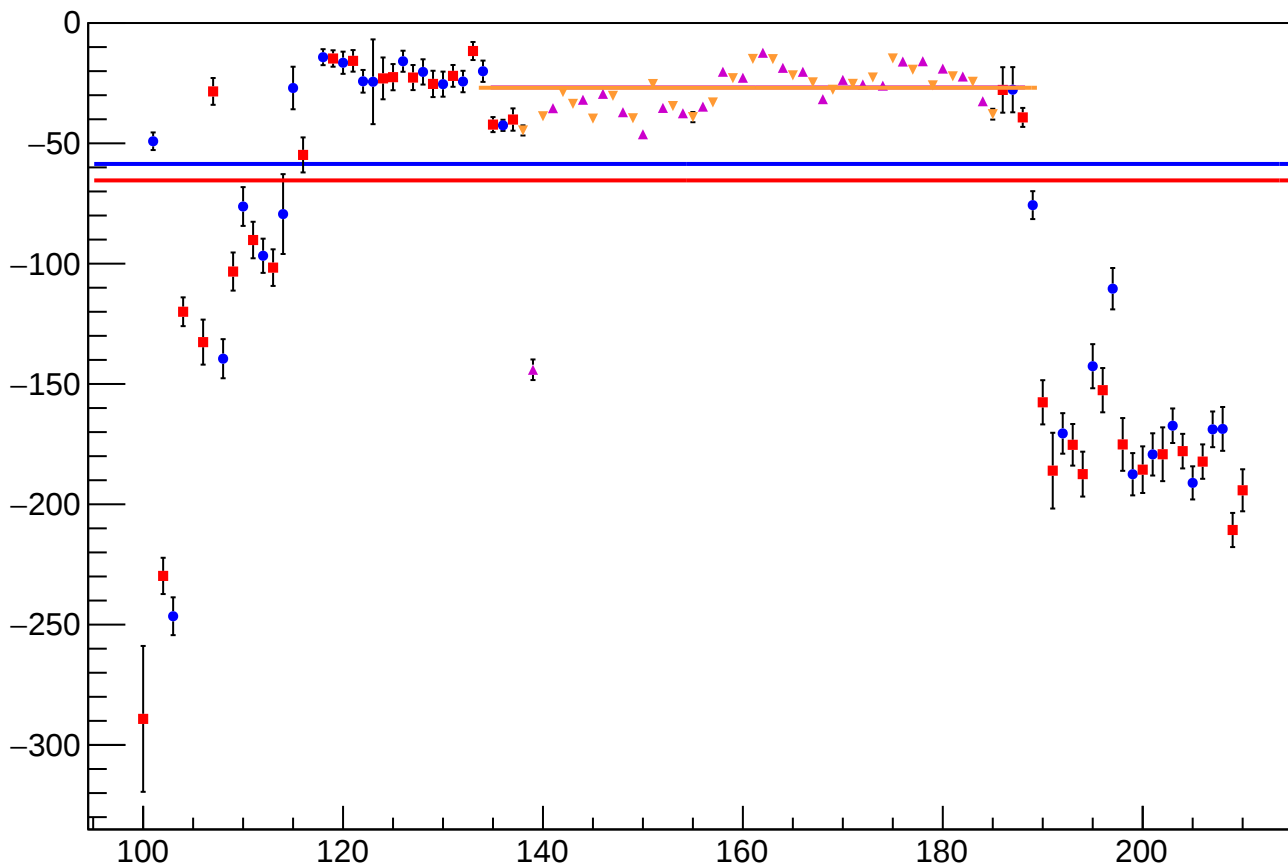
Right: -40.251 ± 1.145 χ^2/NDF : 990.1/24

In: -42.521 ± 0.389 χ^2/NDF : 945.8/33

Out: -43.543 ± 0.376 χ^2/NDF : 1330.4/38

All: -43.049 ± 0.271 χ^2/NDF : 2279.8/72

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.568 ± 1.035 $\chi^2/\text{NDF}: 3104.8/27$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -65.407 ± 1.050 $\chi^2/\text{NDF}: 3847.5/32$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

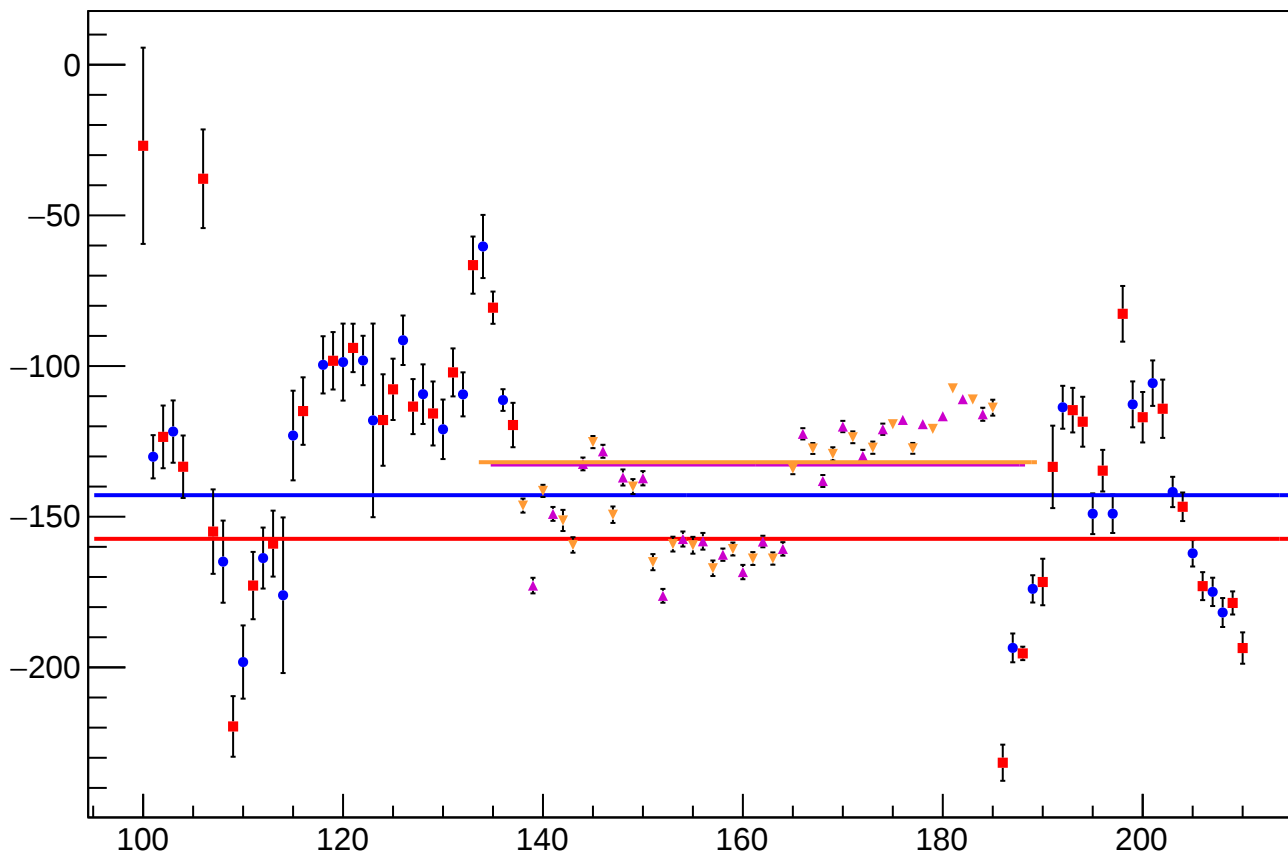
Right: -61.939 ± 0.737 $\chi^2/\text{NDF}: 6973.8/60$

In: -29.650 ± 0.311 $\chi^2/\text{NDF}: 5358.0/50$

Out: -30.107 ± 0.303 $\chi^2/\text{NDF}: 5712.5/57$

All: -29.885 ± 0.217 $\chi^2/\text{NDF}: 11071.6/108$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -142.854 ± 1.287 χ^2/NDF : 667.0/27

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -157.342 ± 1.161 χ^2/NDF : 1402.5/32

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

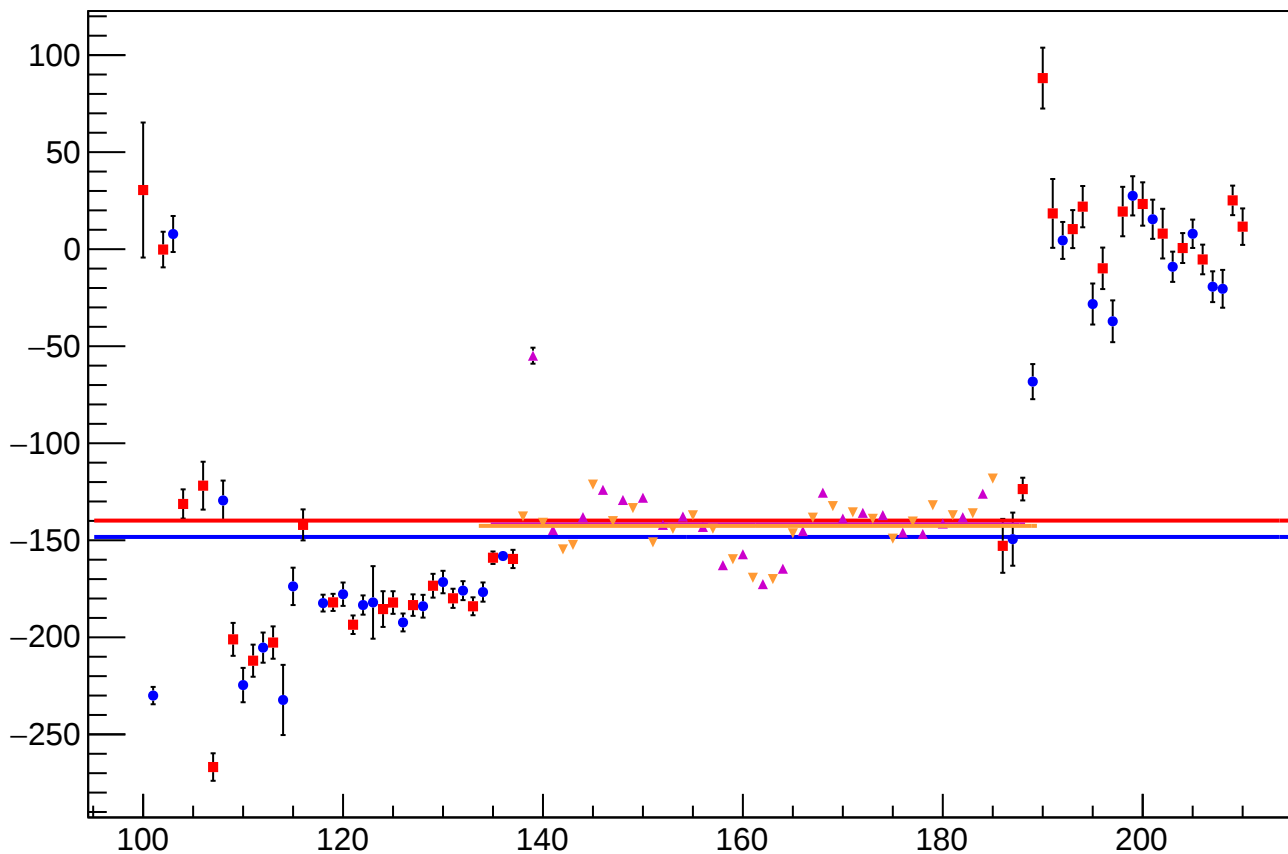
Right: -150.839 ± 0.862 χ^2/NDF : 2139.4/60

In: -133.583 ± 0.381 χ^2/NDF : 3204.1/50

Out: -134.507 ± 0.371 χ^2/NDF : 4272.5/57

All: -134.058 ± 0.266 χ^2/NDF : 7479.6/108

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -148.278 ± 1.163 $\chi^2/\text{NDF}: 3493.0/27$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -139.847 ± 1.200 $\chi^2/\text{NDF}: 4151.6/32$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

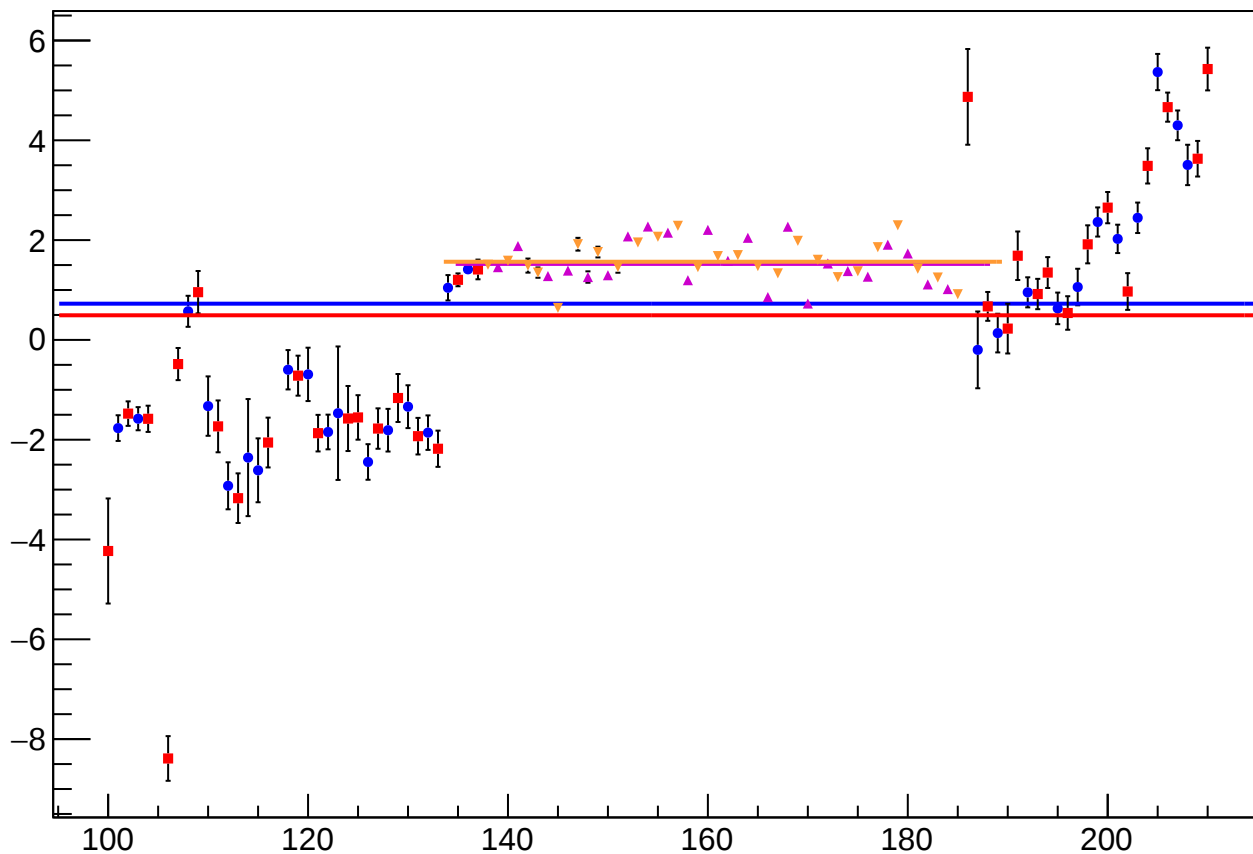
Right: -144.194 ± 0.835 $\chi^2/\text{NDF}: 7670.0/60$

In: -142.428 ± 0.347 $\chi^2/\text{NDF}: 5065.0/50$

Out: -142.346 ± 0.340 $\chi^2/\text{NDF}: 5304.0/57$

All: -142.386 ± 0.243 $\chi^2/\text{NDF}: 10369.0/108$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.726 ± 0.056 $\chi^2/\text{NDF}: 1063.3/27$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 0.493 ± 0.057 $\chi^2/\text{NDF}: 1511.9/32$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

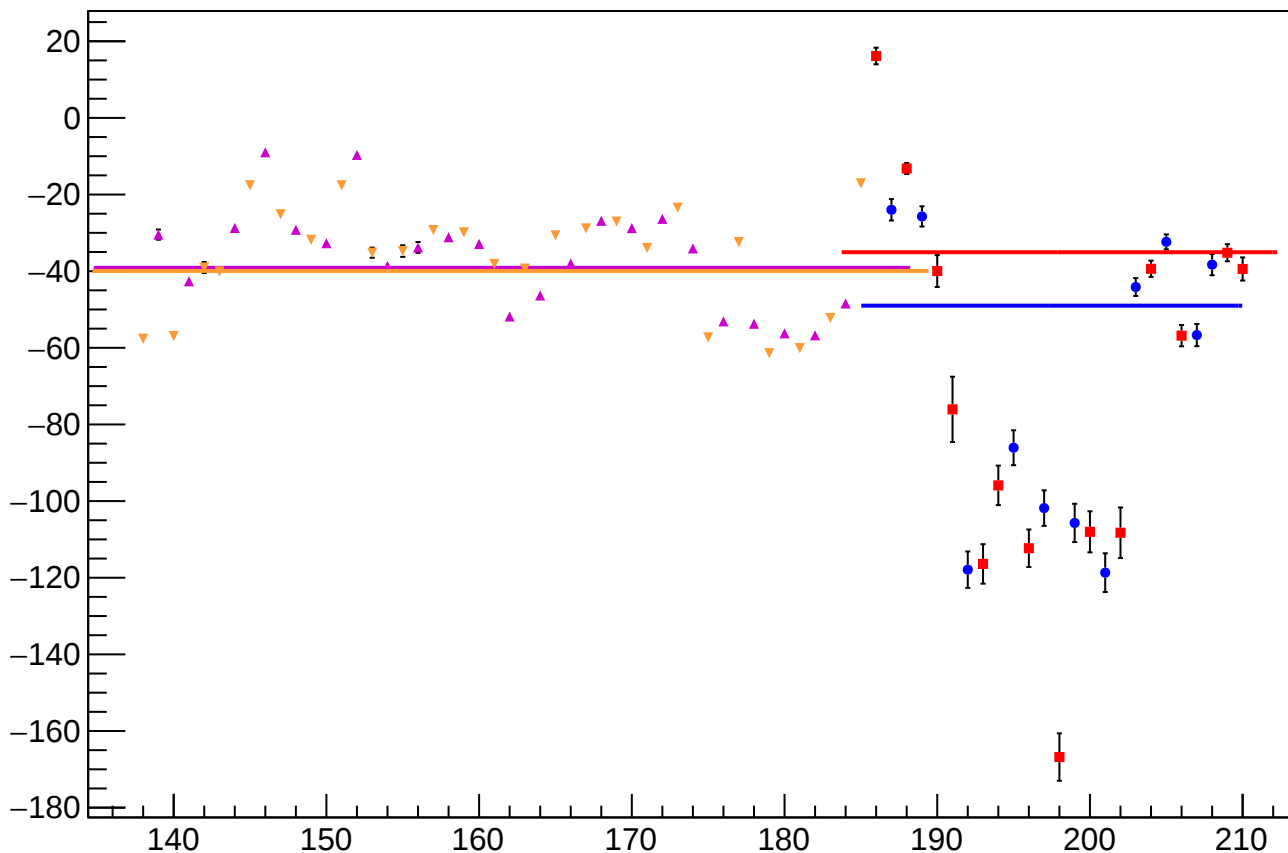
Right: 0.612 ± 0.040 $\chi^2/\text{NDF}: 2583.6/60$

In: 1.459 ± 0.016 $\chi^2/\text{NDF}: 1987.7/50$

Out: 1.487 ± 0.016 $\chi^2/\text{NDF}: 2380.0/57$

All: 1.473 ± 0.011 $\chi^2/\text{NDF}: 4369.2/108$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -48.998 ± 0.919 χ^2/NDF : 981.9/10

Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24

Right Out: -35.054 ± 0.783 χ^2/NDF : 2277.9/13

Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47

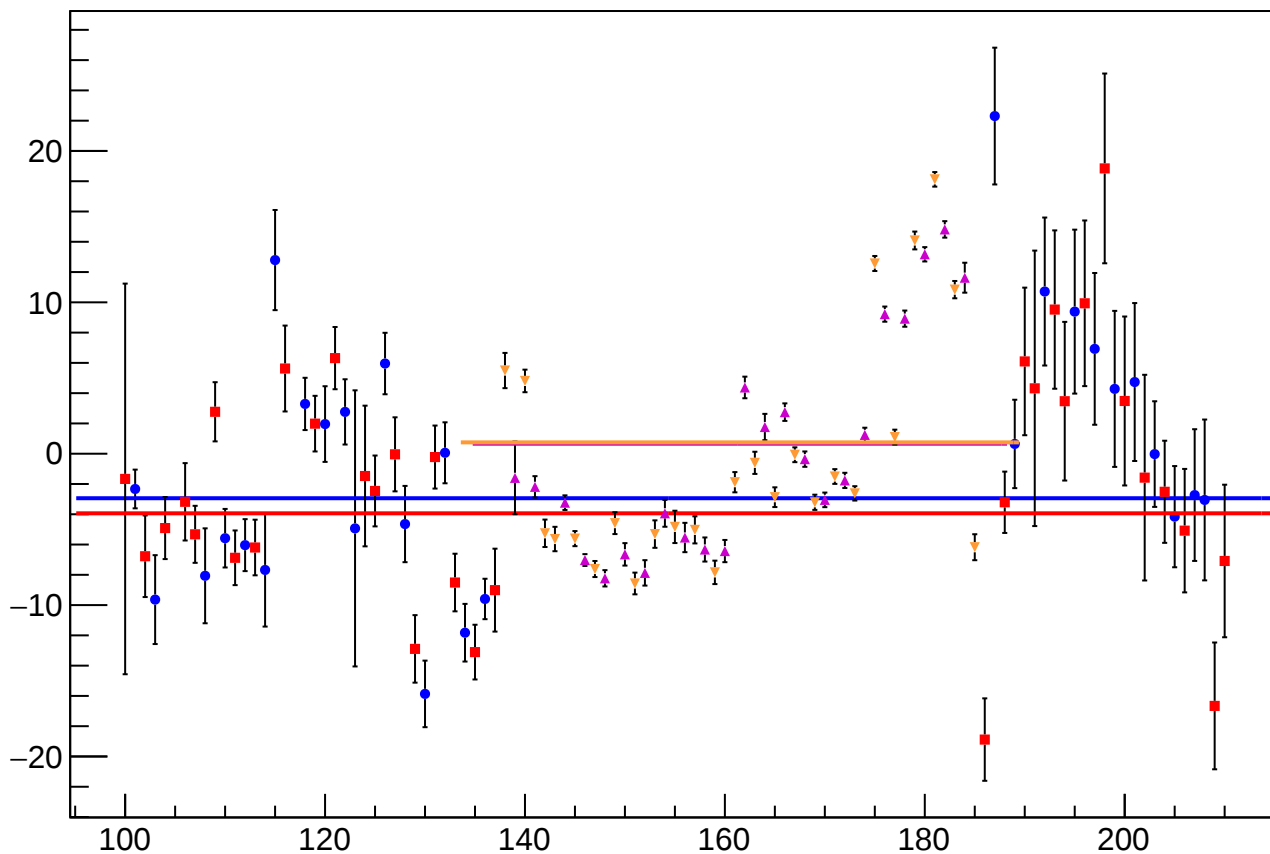
Right: -40.922 ± 0.596 χ^2/NDF : 3393.1/24

In: -39.409 ± 0.152 χ^2/NDF : 9628.4/33

Out: -39.755 ± 0.150 χ^2/NDF : 12121.8/38

All: -39.584 ± 0.107 χ^2/NDF : 21752.8/72

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.941 ± 0.465 $\chi^2/\text{NDF}: 219.0/27$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.937 ± 0.459 $\chi^2/\text{NDF}: 197.4/32$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

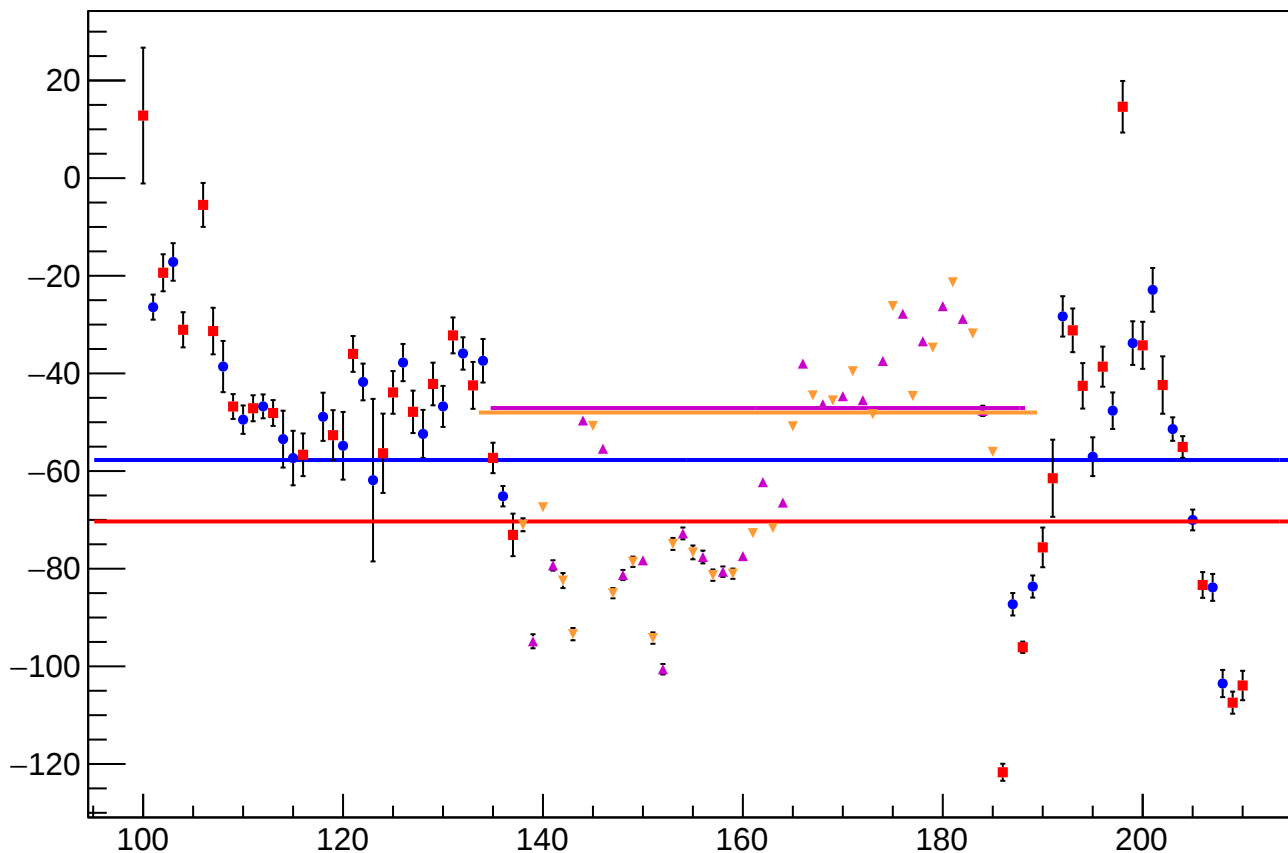
Right: -3.445 ± 0.327 $\chi^2/\text{NDF}: 418.7/60$

In: 0.420 ± 0.120 $\chi^2/\text{NDF}: 3612.8/50$

Out: 0.430 ± 0.120 $\chi^2/\text{NDF}: 4265.3/57$

All: 0.425 ± 0.085 $\chi^2/\text{NDF}: 7878.2/108$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.739 ± 0.619 χ^2/NDF : 1279.0/27

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -70.325 ± 0.546 χ^2/NDF : 3554.8/32

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

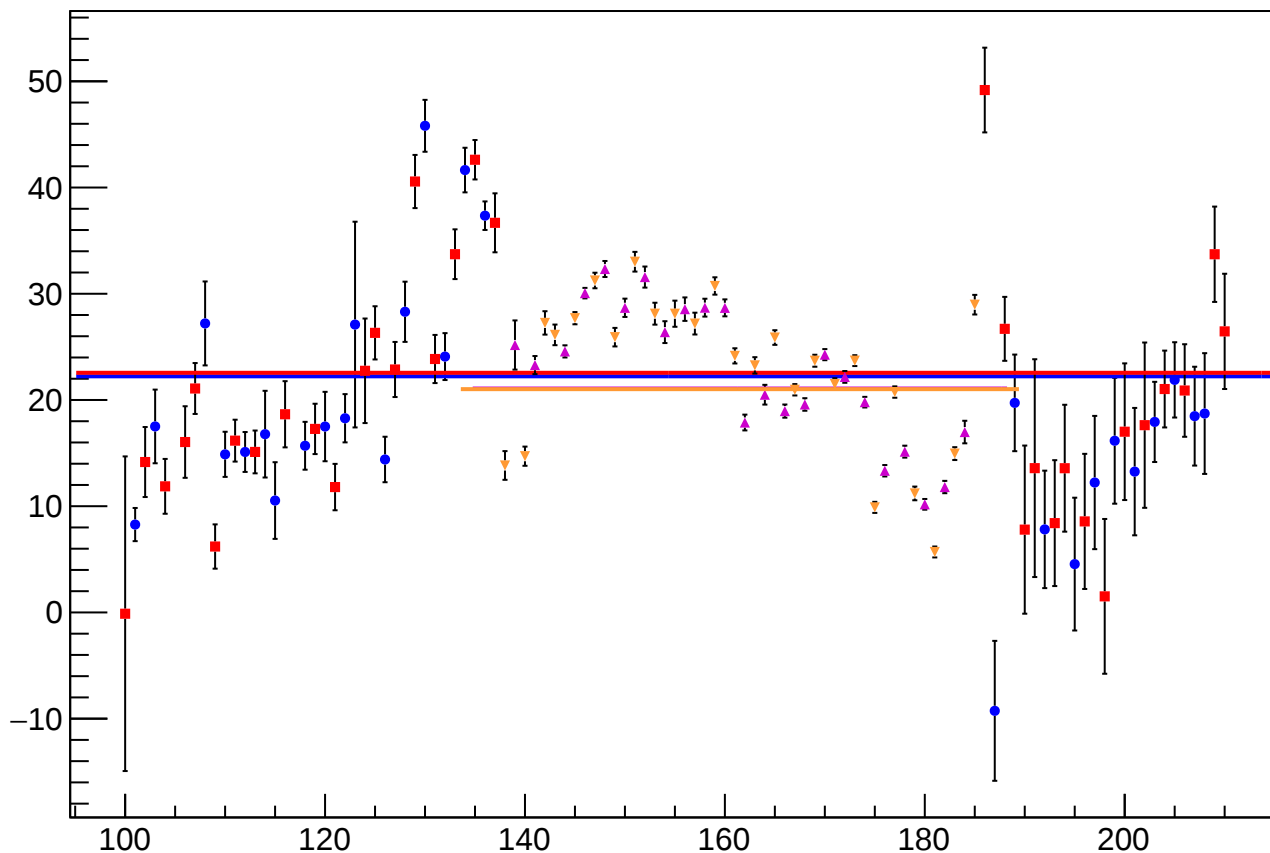
Right: -64.822 ± 0.409 χ^2/NDF : 5066.3/60

In: -47.716 ± 0.151 χ^2/NDF : 17072.8/50

Out: -49.667 ± 0.149 χ^2/NDF : 22052.8/57

All: -48.704 ± 0.106 χ^2/NDF : 39210.6/108

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.227 $\pm$ 0.525 χ^2 /NDF: 506.0/27

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.560 $\pm$ 0.528 χ^2 /NDF: 446.5/32

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

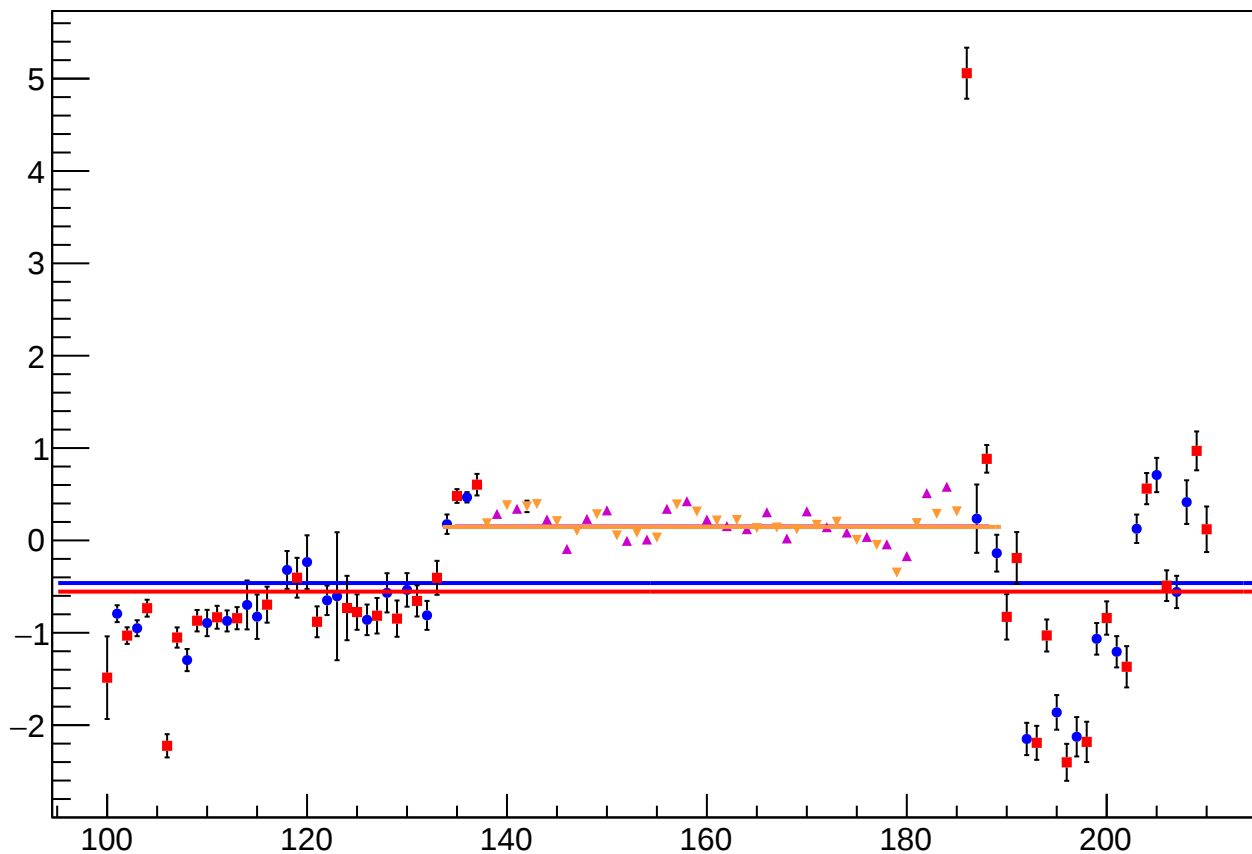
Right: 22.393 $\pm$ 0.372 χ^2 /NDF: 952.7/60

In: 21.155 $\pm$ 0.135 χ^2 /NDF:2683.7/50

Out: 21.120 $\pm$ 0.134 χ^2 /NDF:3253.7/57

All: 21.137 $\pm$ 0.095 χ^2 /NDF: 5937.4/108

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.462 ± 0.027 χ^2/NDF : 762.1/27

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.554 ± 0.026 χ^2/NDF : 1408.8/32

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

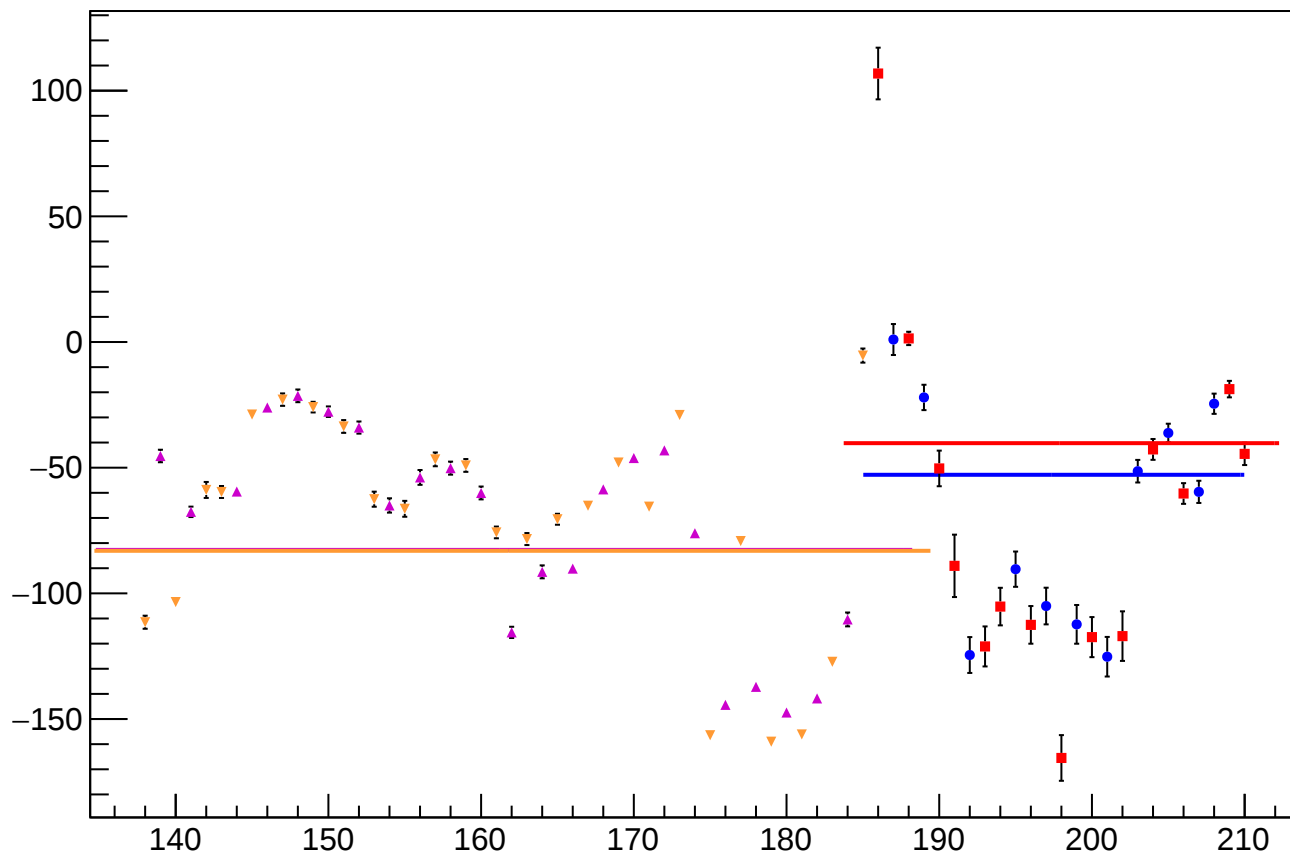
Right: -0.509 ± 0.019 χ^2/NDF : 2177.1/60

In: 0.118 ± 0.006 χ^2/NDF : 2131.0/50

Out: 0.108 ± 0.006 χ^2/NDF : 2691.4/57

All: 0.113 ± 0.004 χ^2/NDF : 4823.7/108

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -52.827 ± 1.594 $\chi^2/\text{NDF}: 510.7/10$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -40.244 ± 1.376 $\chi^2/\text{NDF}: 1152.9/13$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

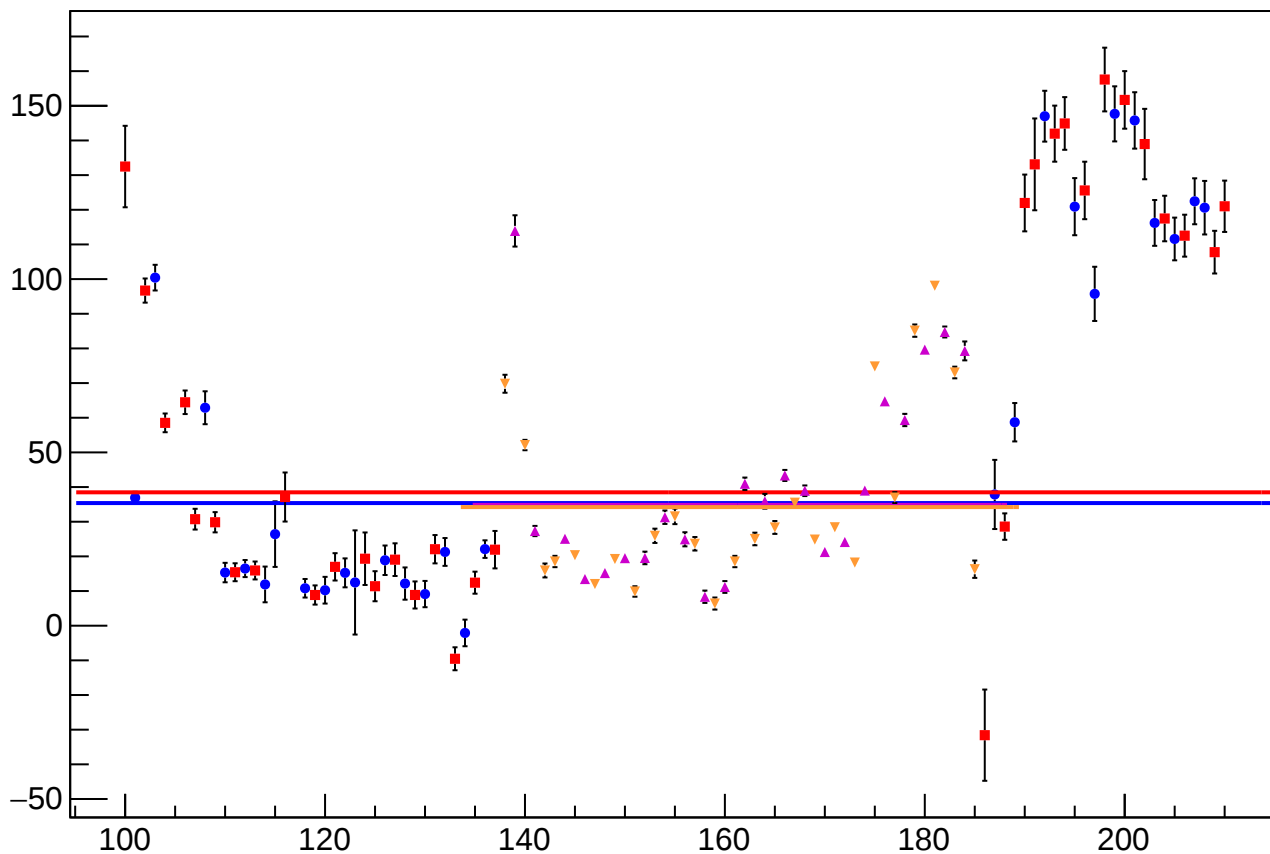
Right: -45.616 ± 1.042 $\chi^2/\text{NDF}: 1699.3/24$

In: -80.813 ± 0.402 $\chi^2/\text{NDF}: 11681.2/33$

Out: -79.633 ± 0.390 $\chi^2/\text{NDF}: 15861.2/38$

All: -80.205 ± 0.280 $\chi^2/\text{NDF}: 27546.8/72$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.381 $\pm$ 0.757 χ^2 /NDF: 2247.2/27

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF: 6192.6/24

Right Out: 38.481 $\pm$ 0.746 χ^2 /NDF: 2851.7/32

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF: 4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

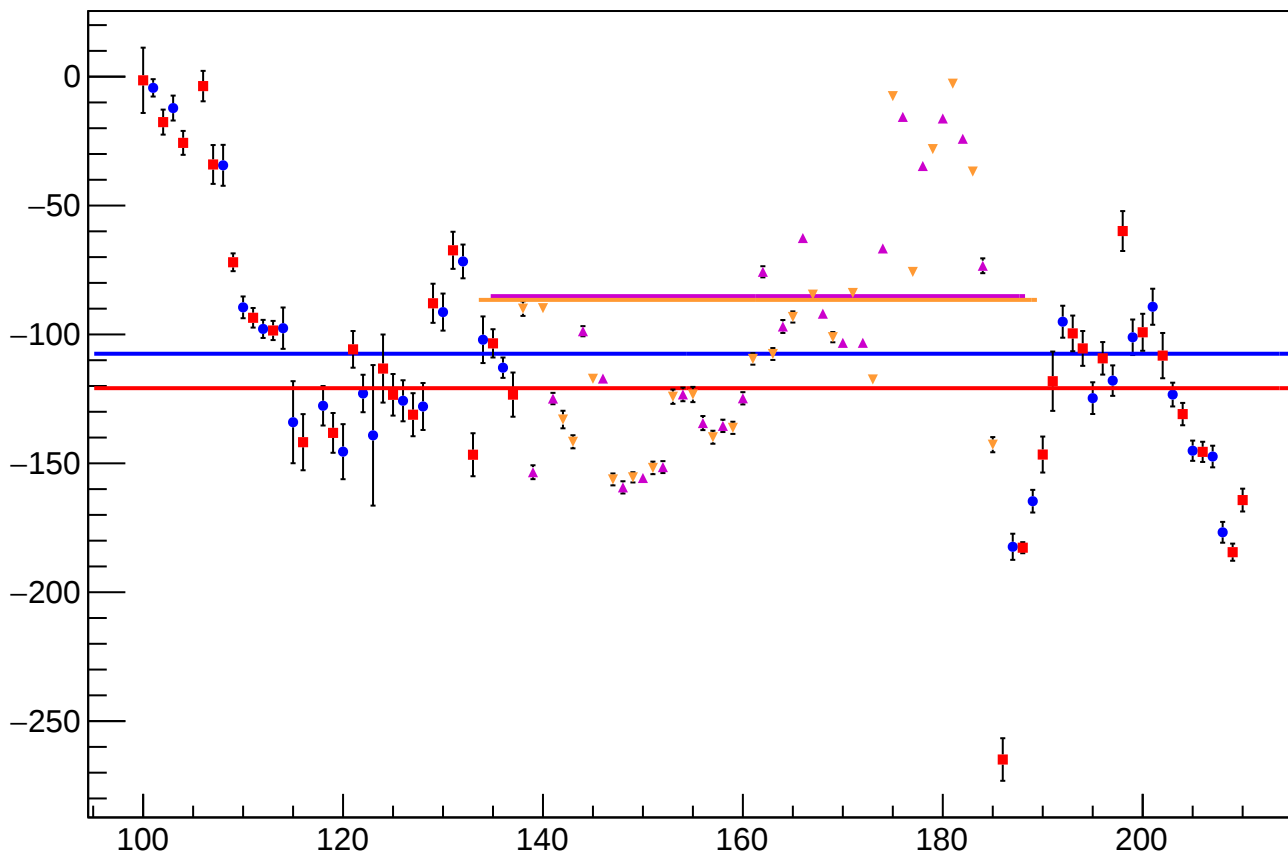
Right: 36.952 $\pm$ 0.531 χ^2 /NDF: 5107.4/60

In: 34.951 $\pm$ 0.302 χ^2 /NDF: 6963.7/50

Out: 34.881 $\pm$ 0.294 χ^2 /NDF: 9071.8/57

All: 34.915 $\pm$ 0.211 χ^2 /NDF: 16035.6/108

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -107.485 ± 1.031 χ^2/NDF : 2412.0/27

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -120.843 ± 0.920 χ^2/NDF : 3636.2/32

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

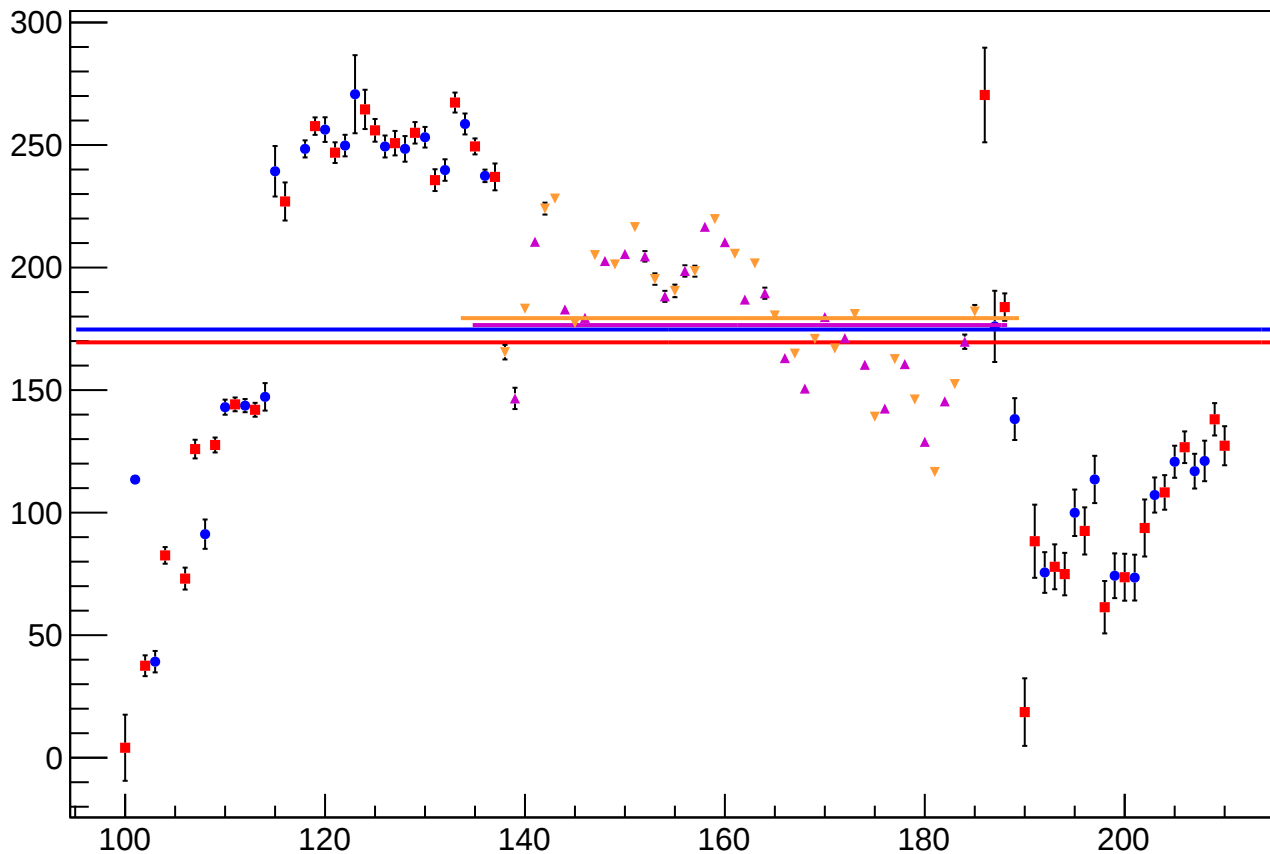
Right: -114.928 ± 0.686 χ^2/NDF : 6141.6/60

In: -88.248 ± 0.385 χ^2/NDF : 15657.4/50

Out: -92.238 ± 0.373 χ^2/NDF : 19310.3/57

All: -90.305 ± 0.268 χ^2/NDF : 35023.1/108

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 174.726 $\pm$ 0.865 χ^2 /NDF: 6175.4/27

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 169.480 $\pm$ 0.858 χ^2 /NDF: 7299.8/32

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

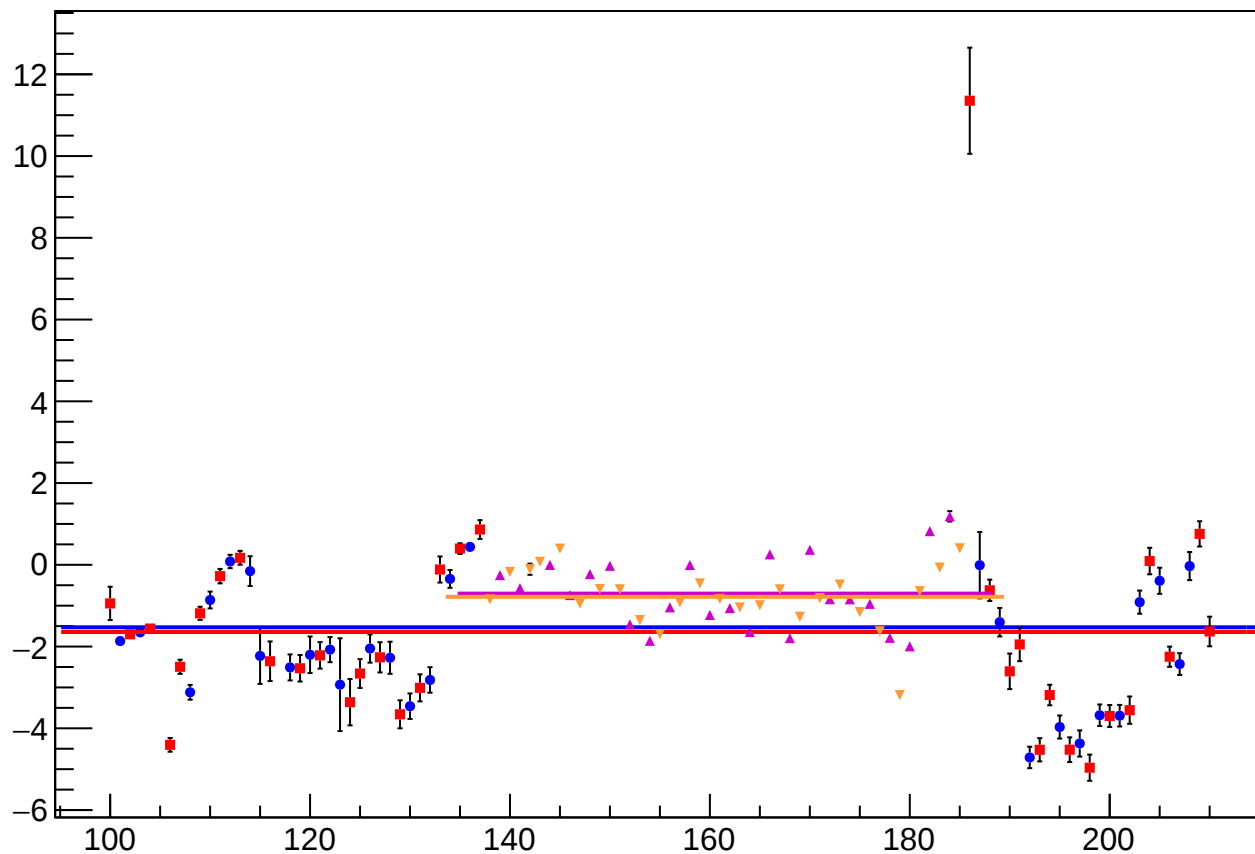
Right: 172.081 $\pm$ 0.609 χ^2 /NDF: 13493.7/60

In: 176.251 $\pm$ 0.341 χ^2 /NDF: 10605.0/50

Out: 177.867 $\pm$ 0.333 χ^2 /NDF: 13394.6/57

All: 177.077 $\pm$ 0.238 χ^2 /NDF: 24011.1/108

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.529 ± 0.043 $\chi^2/\text{NDF}: 1154.2/27$

Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$

Right Out: -1.644 ± 0.040 $\chi^2/\text{NDF}: 1596.2/32$

Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$

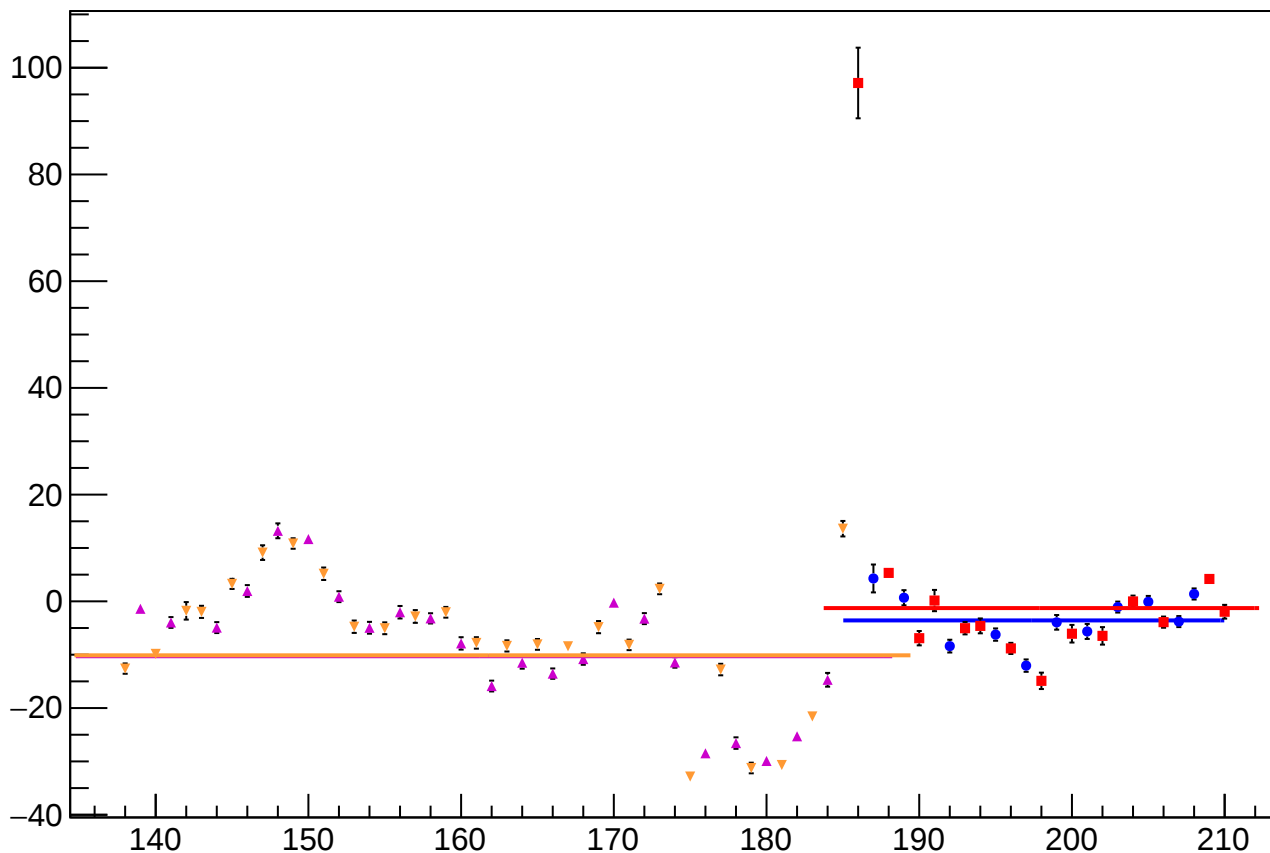
Right: -1.590 ± 0.029 $\chi^2/\text{NDF}: 2754.3/60$

In: -0.817 ± 0.016 $\chi^2/\text{NDF}: 3884.8/50$

Out: -0.909 ± 0.015 $\chi^2/\text{NDF}: 3758.8/57$

All: -0.864 ± 0.011 $\chi^2/\text{NDF}: 7661.1/108$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.576 ± 0.365 $\chi^2/\text{NDF}: 133.5/10$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.265 ± 0.312 $\chi^2/\text{NDF}: 558.1/13$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

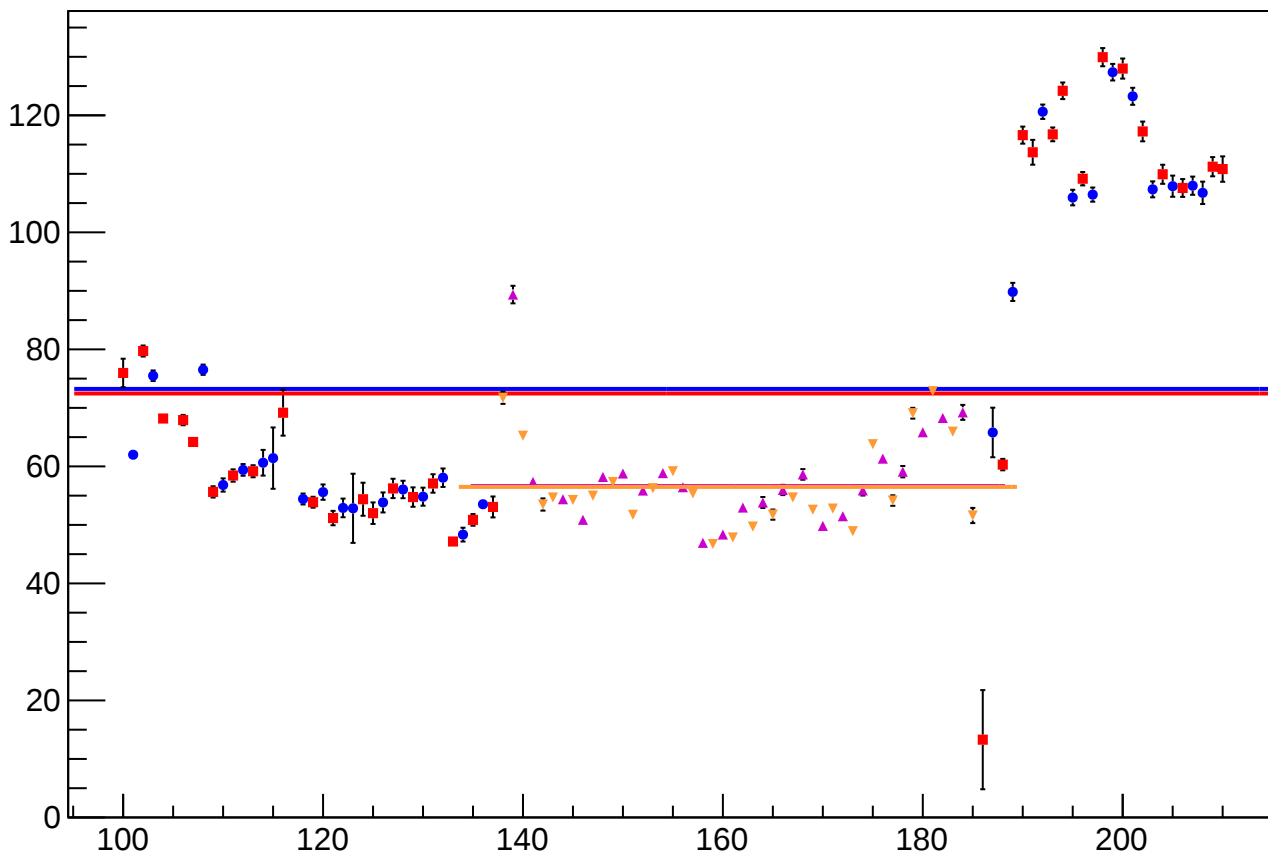
Right: -2.241 ± 0.237 $\chi^2/\text{NDF}: 714.8/24$

In: -8.678 ± 0.179 $\chi^2/\text{NDF}: 3841.1/33$

Out: -7.516 ± 0.169 $\chi^2/\text{NDF}: 5263.8/38$

All: -8.064 ± 0.123 $\chi^2/\text{NDF}: 9127.2/72$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 73.242+/-0.228 χ^2/NDF : 10618.4/27

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 72.460+/-0.211 χ^2/NDF : 14396.7/32

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

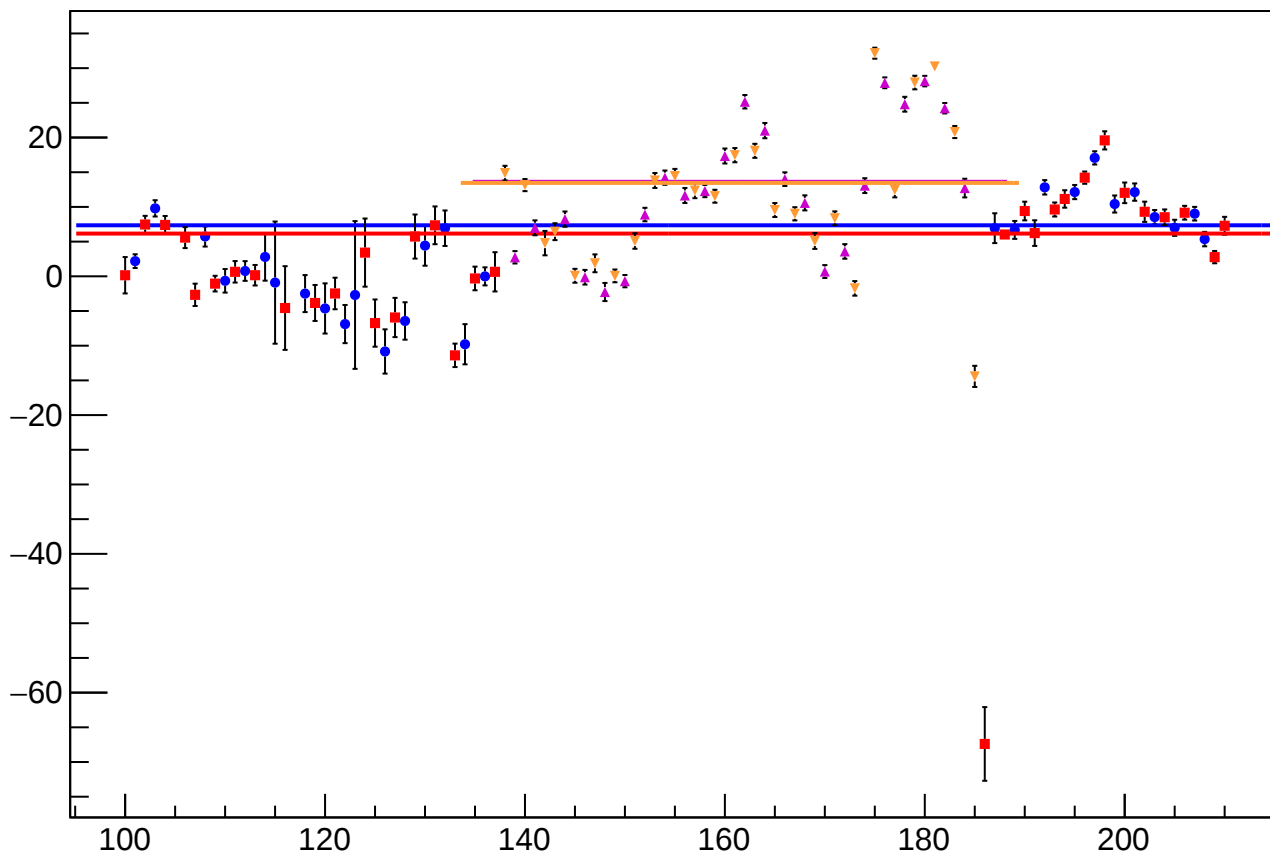
Right: 72.821+/-0.155 χ^2/NDF : 25021.5/60

In: 62.363+/-0.134 χ^2/NDF :15714.7/50

Out: 62.278+/-0.127 χ^2/NDF :20021.7/57

All: 62.318+/-0.092 χ^2/NDF : 35736.5/108

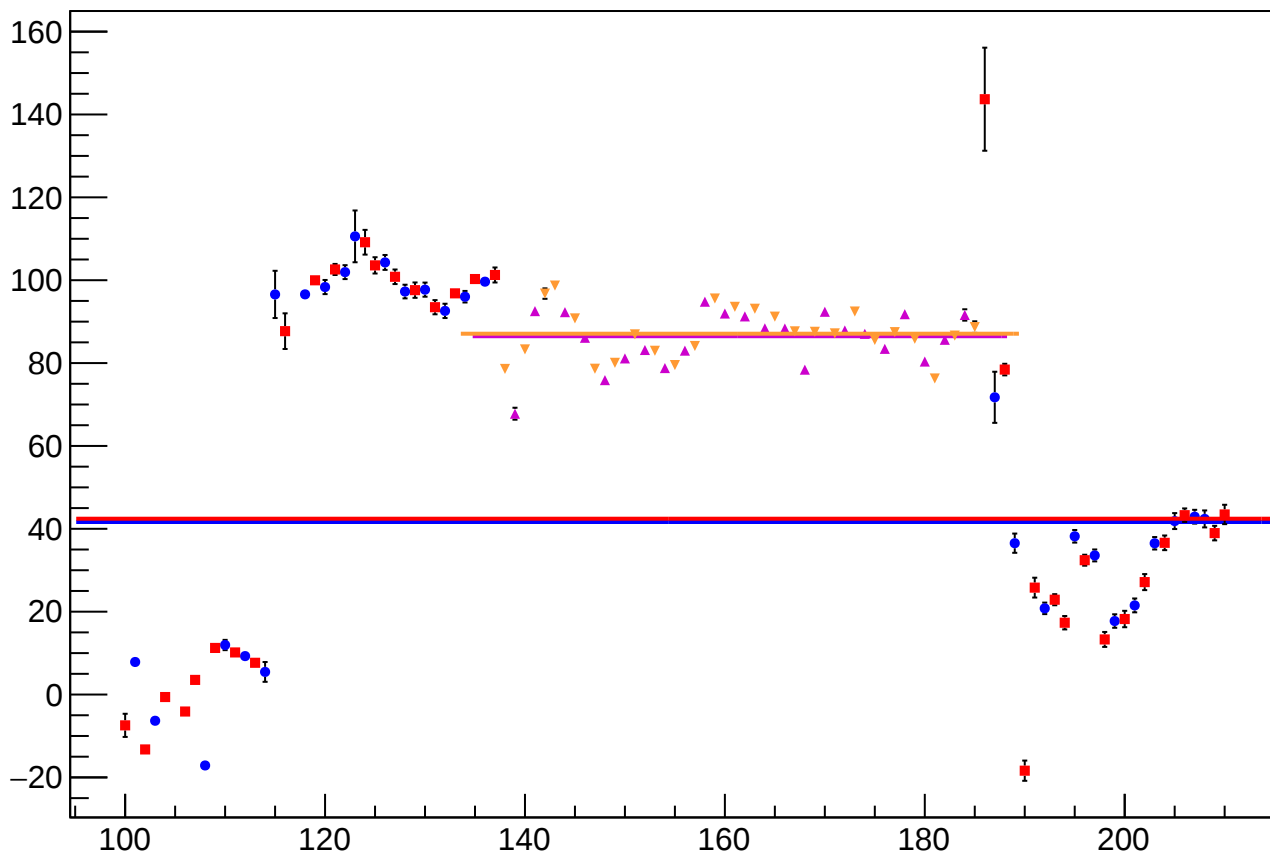
reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.352 ± 0.272 $\chi^2/\text{NDF}: 440.1/27$
 Left Out: 13.462 ± 0.202 $\chi^2/\text{NDF}: 2736.3/24$
 Right Out: 6.159 ± 0.234 $\chi^2/\text{NDF}: 762.0/32$
 Left In: 13.620 ± 0.204 $\chi^2/\text{NDF}: 2315.4/22$

Left: 13.540 ± 0.144 $\chi^2/\text{NDF}: 5052.0/47$
 Right: 6.667 ± 0.178 $\chi^2/\text{NDF}: 1213.1/60$
 In: 11.361 ± 0.163 $\chi^2/\text{NDF}: 3094.1/50$
 Out: 10.359 ± 0.153 $\chi^2/\text{NDF}: 4056.5/57$
 All: 10.826 ± 0.112 $\chi^2/\text{NDF}: 7170.7/108$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.644 $\pm$ 0.263 χ^2 /NDF: 25471.3/27

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.436 $\pm$ 0.248 χ^2 /NDF: 30761.2/32

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

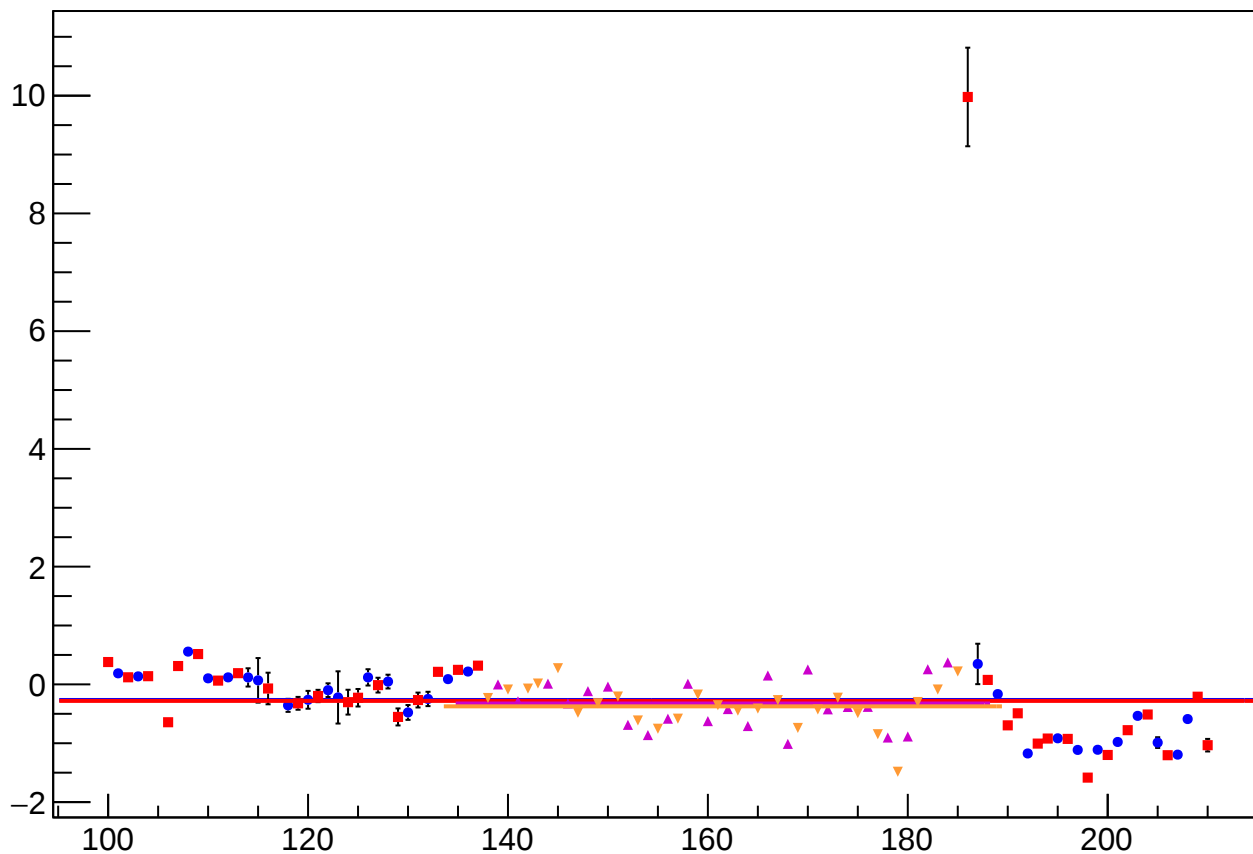
Right: 42.064 $\pm$ 0.180 χ^2 /NDF: 56237.3/60

In: 71.693 $\pm$ 0.151 χ^2 /NDF:45930.5/50

Out: 71.747 $\pm$ 0.145 χ^2 /NDF:53204.8/57

All: 71.721 $\pm$ 0.105 χ^2 /NDF: 99135.4/108

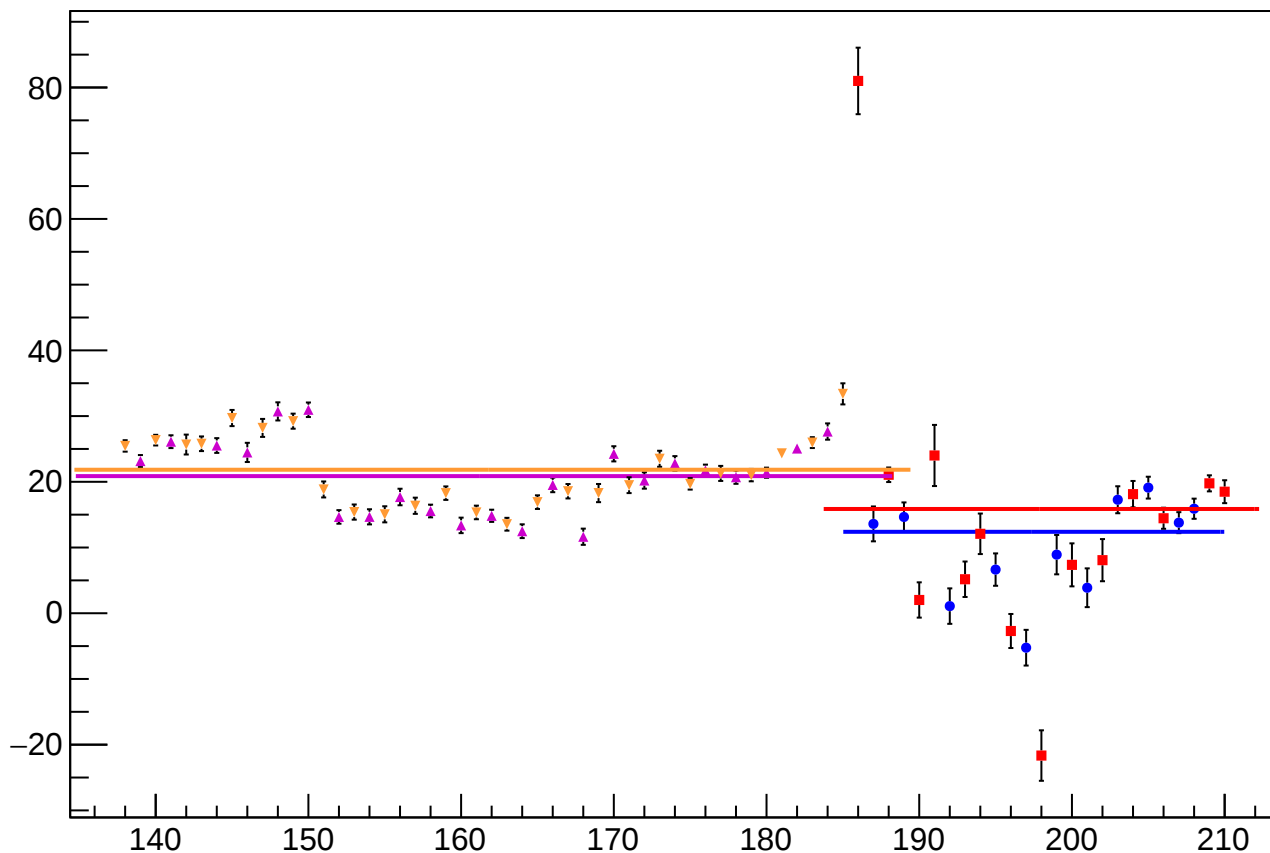
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.265 ± 0.011 χ^2/NDF : 3193.3/27
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.281 ± 0.010 χ^2/NDF : 3608.0/32
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.273 ± 0.007 χ^2/NDF : 6802.4/60
 In: -0.303 ± 0.007 χ^2/NDF : 5496.9/50
 Out: -0.337 ± 0.006 χ^2/NDF : 5328.0/57
 All: -0.321 ± 0.005 χ^2/NDF : 10838.4/108

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.391 $\pm$ 0.642 χ^2 /NDF: 104.1/10

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 15.866 $\pm$ 0.548 χ^2 /NDF: 408.5/13

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

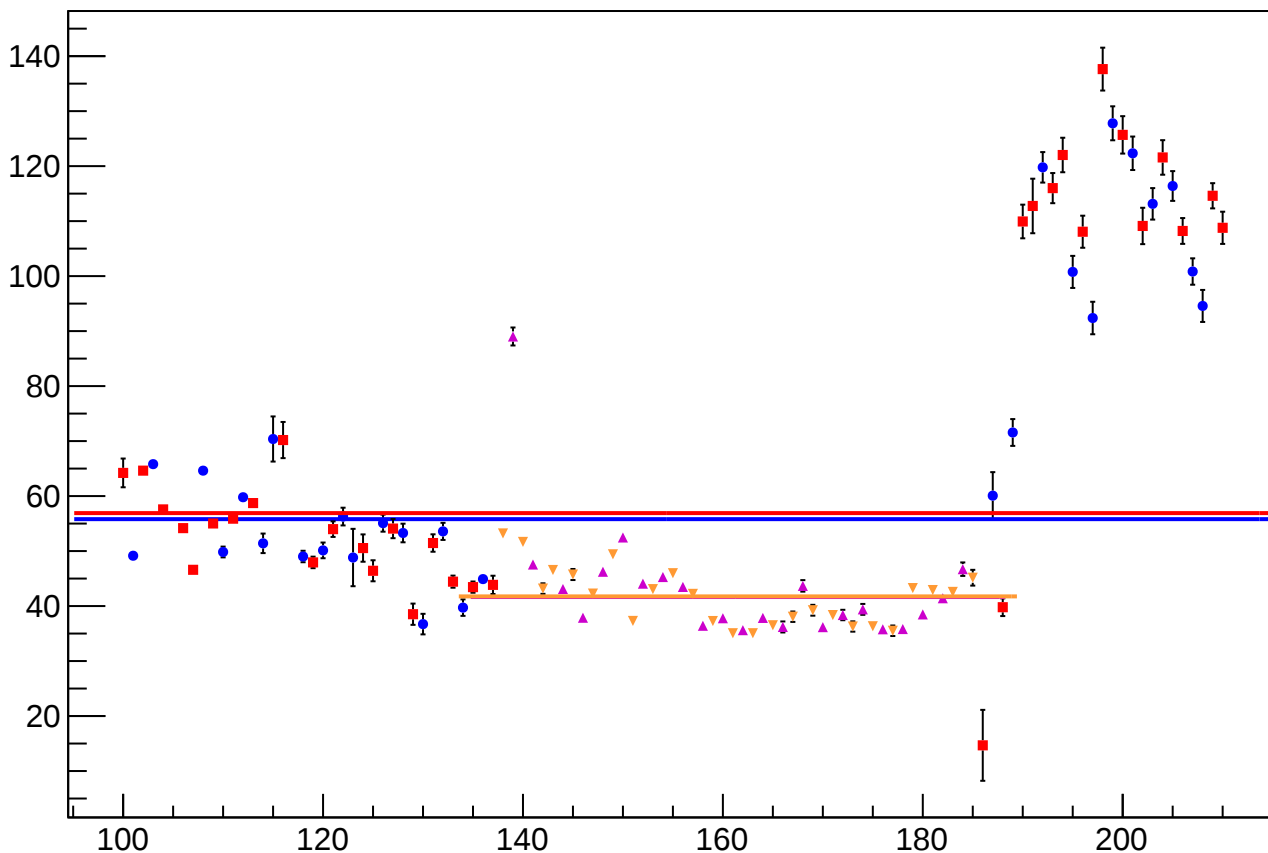
Right: 14.400 $\pm$ 0.417 χ^2 /NDF: 529.5/24

In: 19.999 $\pm$ 0.205 χ^2 /NDF: 837.4/33

Out: 21.074 $\pm$ 0.196 χ^2 /NDF: 1036.2/38

All: 20.562 $\pm$ 0.142 χ^2 /NDF: 1888.0/72

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.804 $\pm$ 0.205 χ^2 /NDF: 4794.6/27

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 56.903 $\pm$ 0.217 χ^2 /NDF: 5850.9/32

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

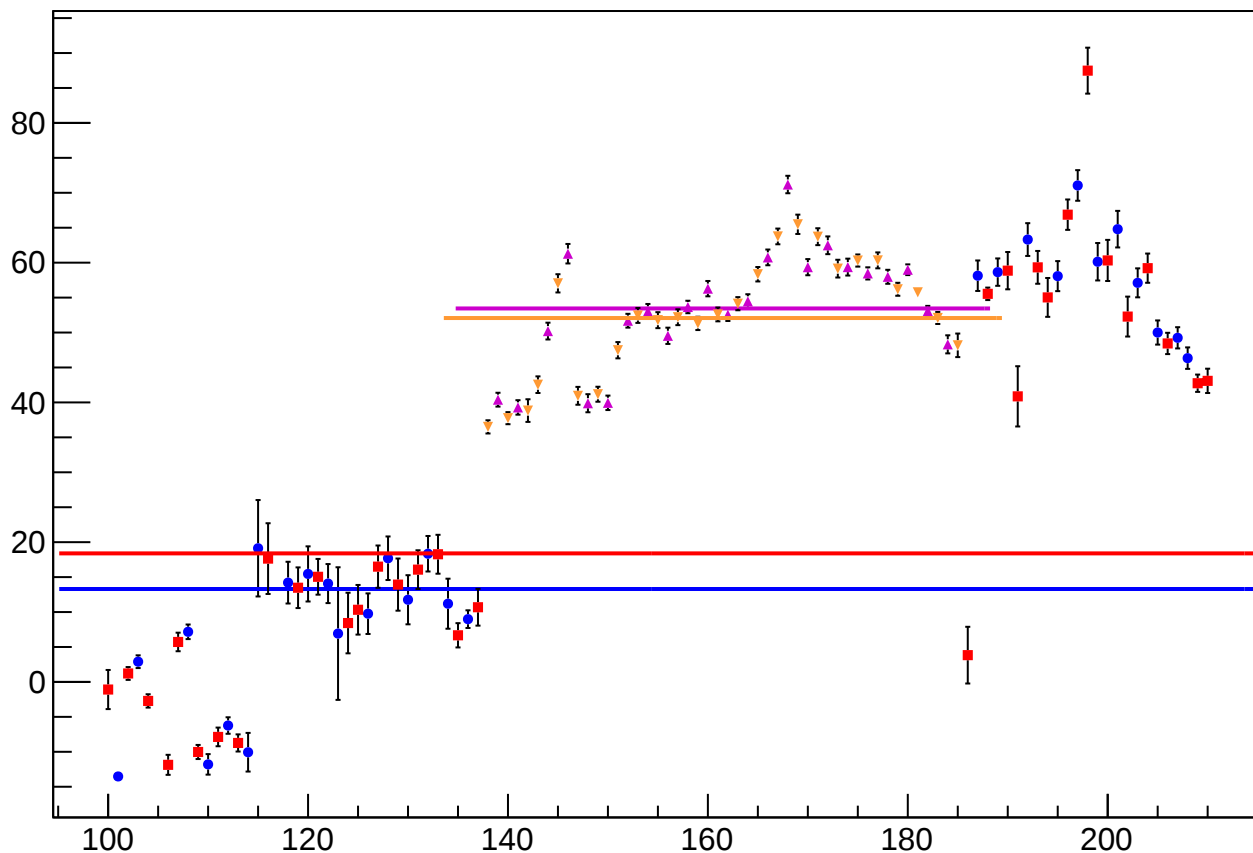
Right: 56.322 $\pm$ 0.149 χ^2 /NDF: 10659.1/60

In: 47.565 $\pm$ 0.133 χ^2 /NDF:9182.5/50

Out: 47.312 $\pm$ 0.132 χ^2 /NDF:9943.6/57

All: 47.437 $\pm$ 0.093 χ^2 /NDF: 19127.9/108

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.298 $\pm$ 0.311 χ^2 /NDF: 7839.3/27

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 18.395 $\pm$ 0.301 χ^2 /NDF: 8282.0/32

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

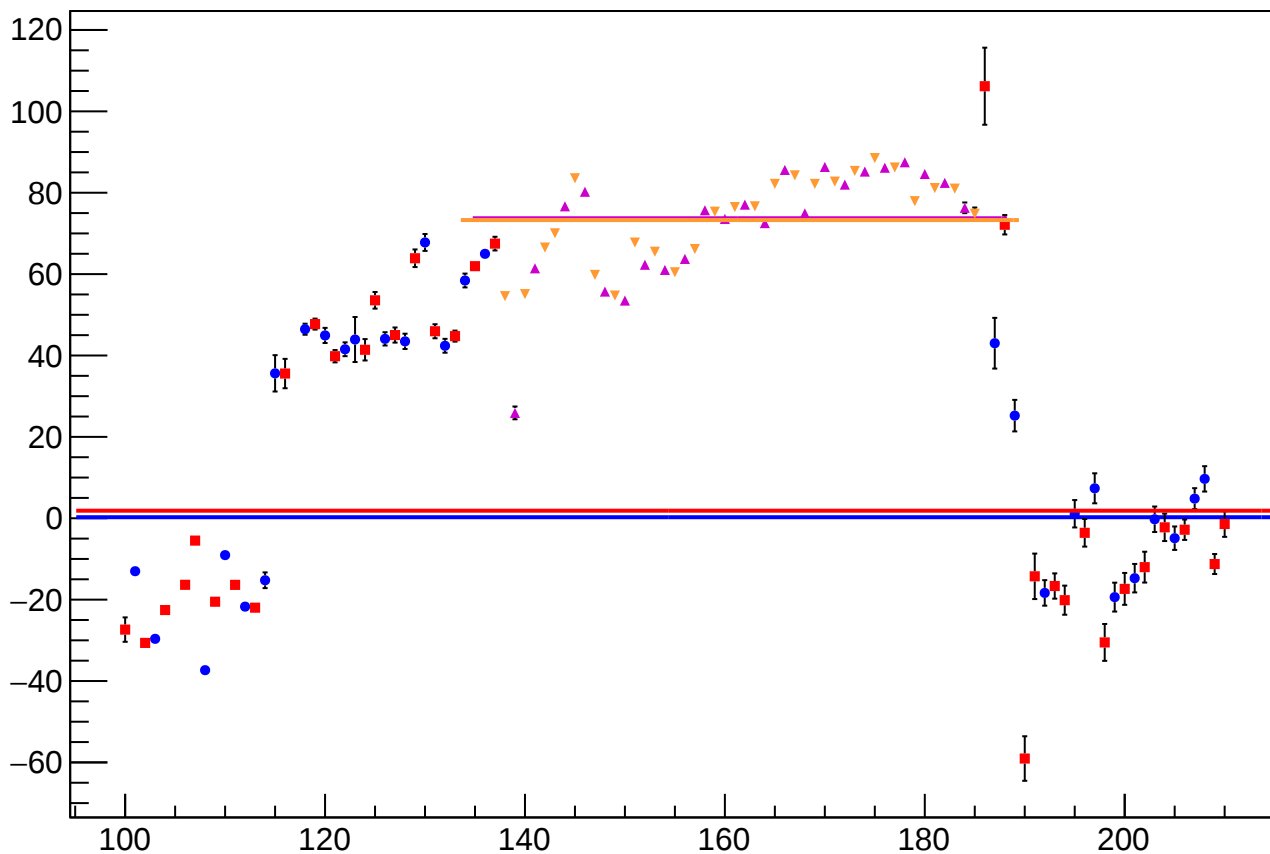
Right: 15.933 $\pm$ 0.216 χ^2 /NDF: 16259.7/60

In: 40.463 $\pm$ 0.177 χ^2 /NDF:20249.2/50

Out: 41.053 $\pm$ 0.172 χ^2 /NDF:18151.0/57

All: 40.766 $\pm$ 0.123 χ^2 /NDF: 38405.9/108

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.255 ± 0.240 χ^2/NDF : 18412.1/27

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 1.860 ± 0.256 χ^2/NDF : 16735.3/32

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

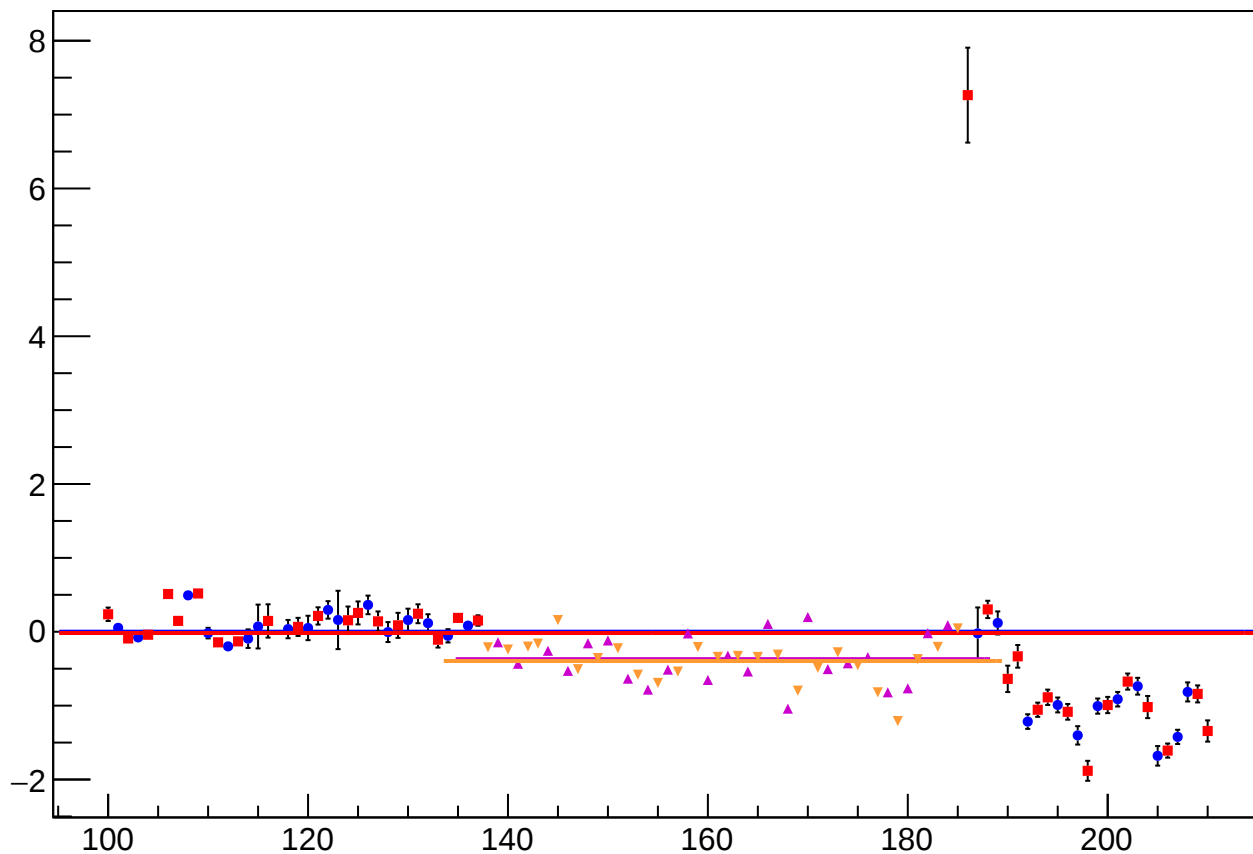
Right: 1.008 ± 0.175 χ^2/NDF : 35168.3/60

In: 44.695 ± 0.151 χ^2/NDF : 78676.2/50

Out: 48.449 ± 0.151 χ^2/NDF : 70687.7/57

All: 46.575 ± 0.107 χ^2/NDF : 149672.9/108

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 1507.4/27$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.017 ± 0.010 $\chi^2/\text{NDF}: 1682.2/32$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

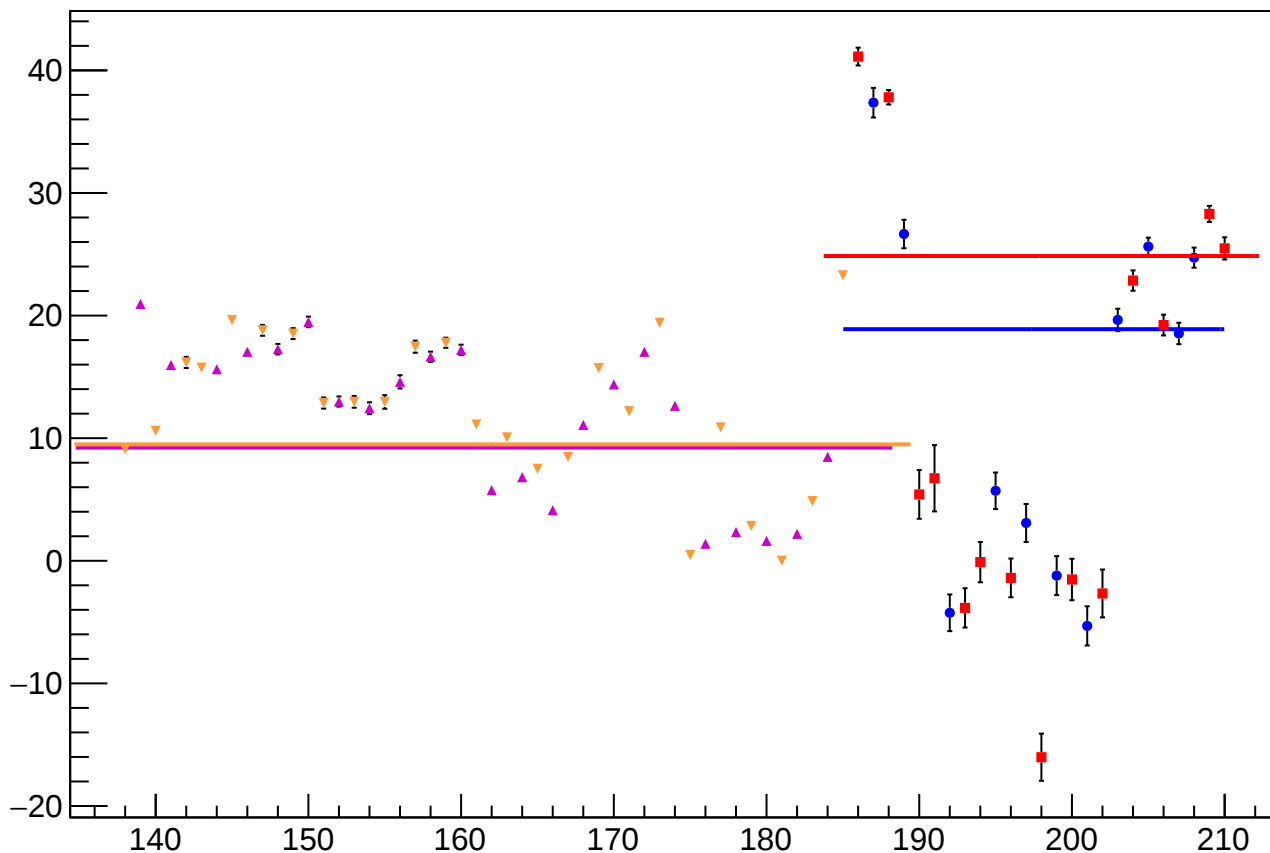
Right: -0.008 ± 0.007 $\chi^2/\text{NDF}: 3191.0/60$

In: -0.220 ± 0.007 $\chi^2/\text{NDF}: 3560.4/50$

Out: -0.244 ± 0.007 $\chi^2/\text{NDF}: 3420.9/57$

All: -0.232 ± 0.005 $\chi^2/\text{NDF}: 6987.6/108$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 18.891 ± 0.326 χ^2/NDF : 1226.5/10

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 24.858 ± 0.271 χ^2/NDF : 2922.2/13

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

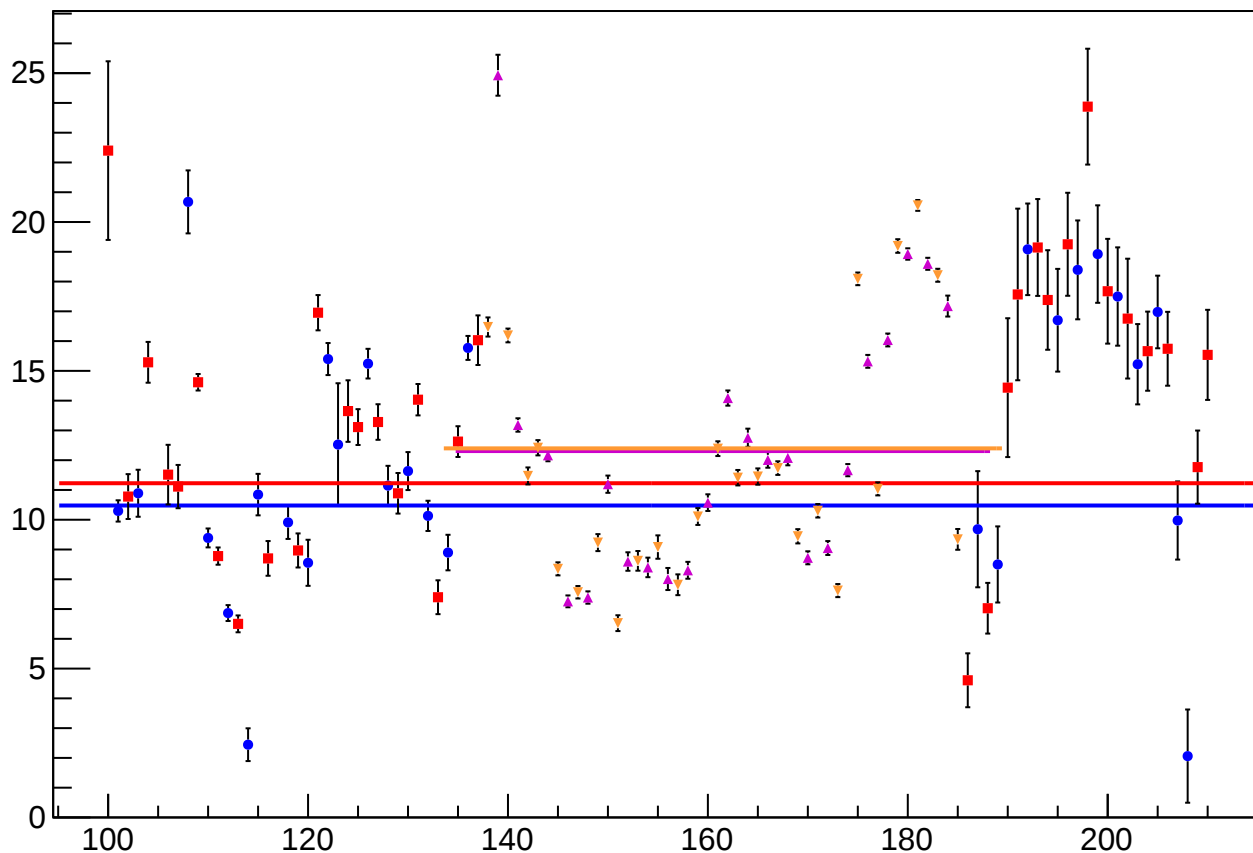
Right: 22.415 ± 0.208 χ^2/NDF : 4346.8/24

In: 9.579 ± 0.062 χ^2/NDF : 12809.8/33

Out: 10.240 ± 0.060 χ^2/NDF : 18582.9/38

All: 9.921 ± 0.043 χ^2/NDF : 31451.6/72

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.478 $\pm$ 0.116 χ^2 /NDF: 1054.0/27

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.226 $\pm$ 0.111 χ^2 /NDF: 1057.2/32

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

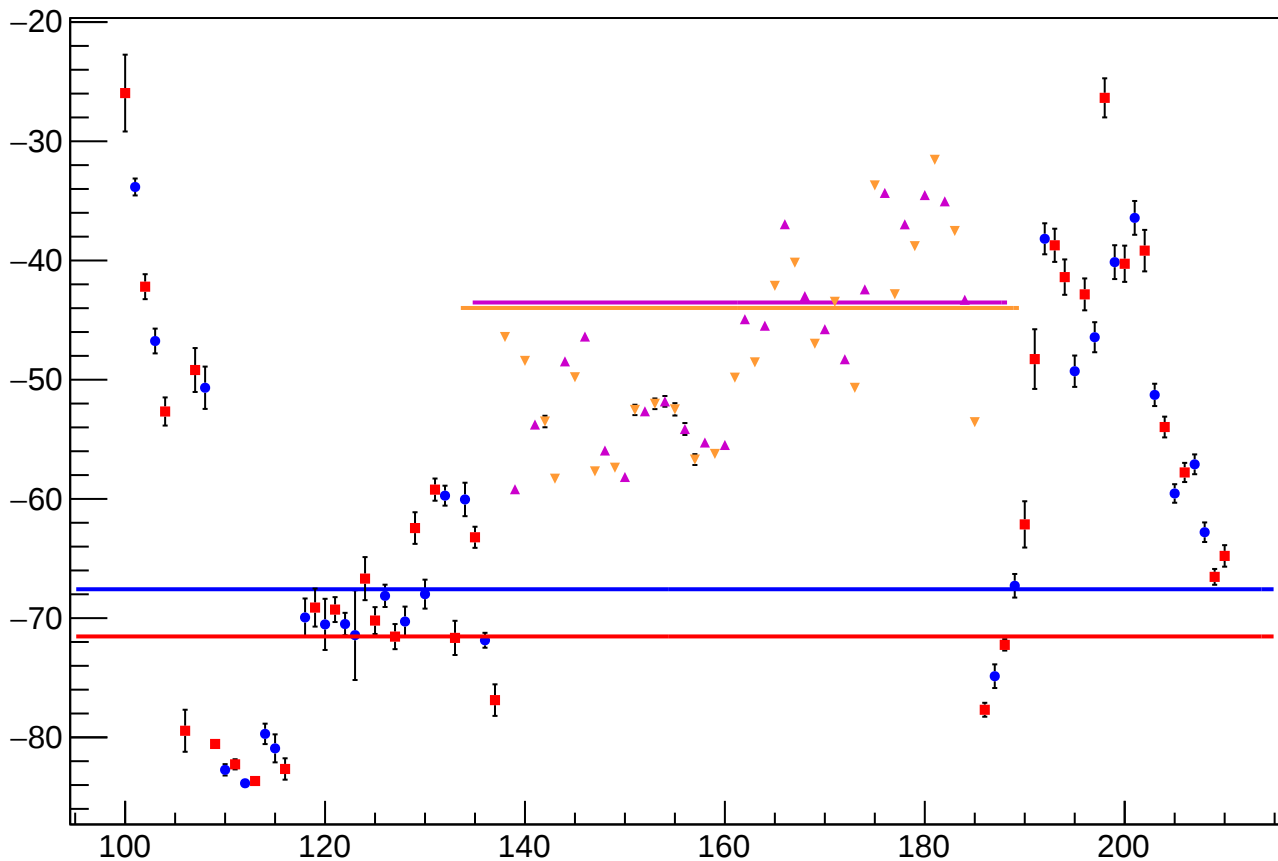
Right: 10.866 $\pm$ 0.080 χ^2 /NDF: 2132.9/60

In: 12.007 $\pm$ 0.047 χ^2 /NDF: 6865.0/50

Out: 12.202 $\pm$ 0.045 χ^2 /NDF: 8692.4/57

All: 12.108 $\pm$ 0.033 χ^2 /NDF: 15566.4/108

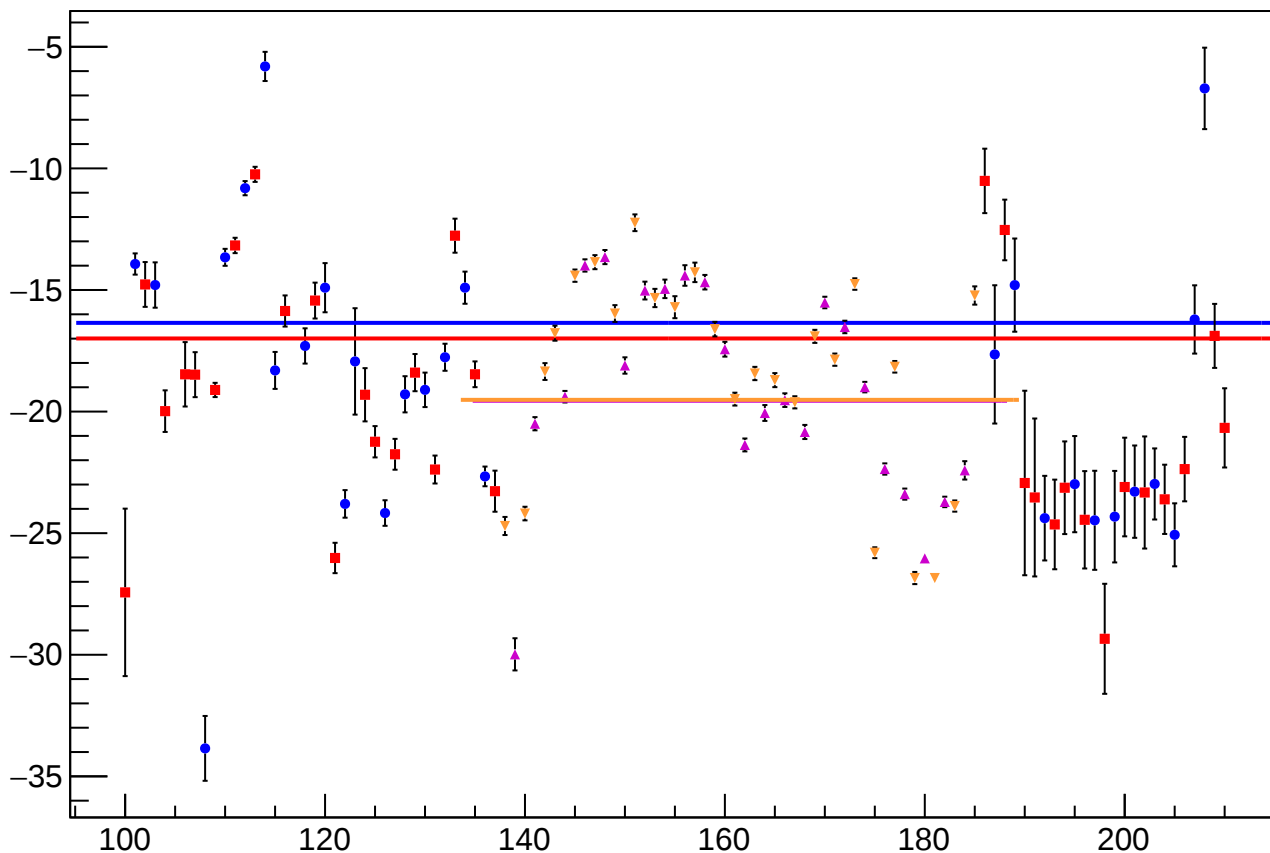
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.577 ± 0.167 $\chi^2/\text{NDF}: 8604.4/27$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -71.536 ± 0.146 $\chi^2/\text{NDF}: 8063.8/32$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$
 Right: -69.825 ± 0.110 $\chi^2/\text{NDF}: 16988.1/60$
 In: -46.553 ± 0.059 $\chi^2/\text{NDF}: 42049.6/50$
 Out: -48.208 ± 0.057 $\chi^2/\text{NDF}: 56161.0/57$
 All: -47.412 ± 0.041 $\chi^2/\text{NDF}: 98616.3/108$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected

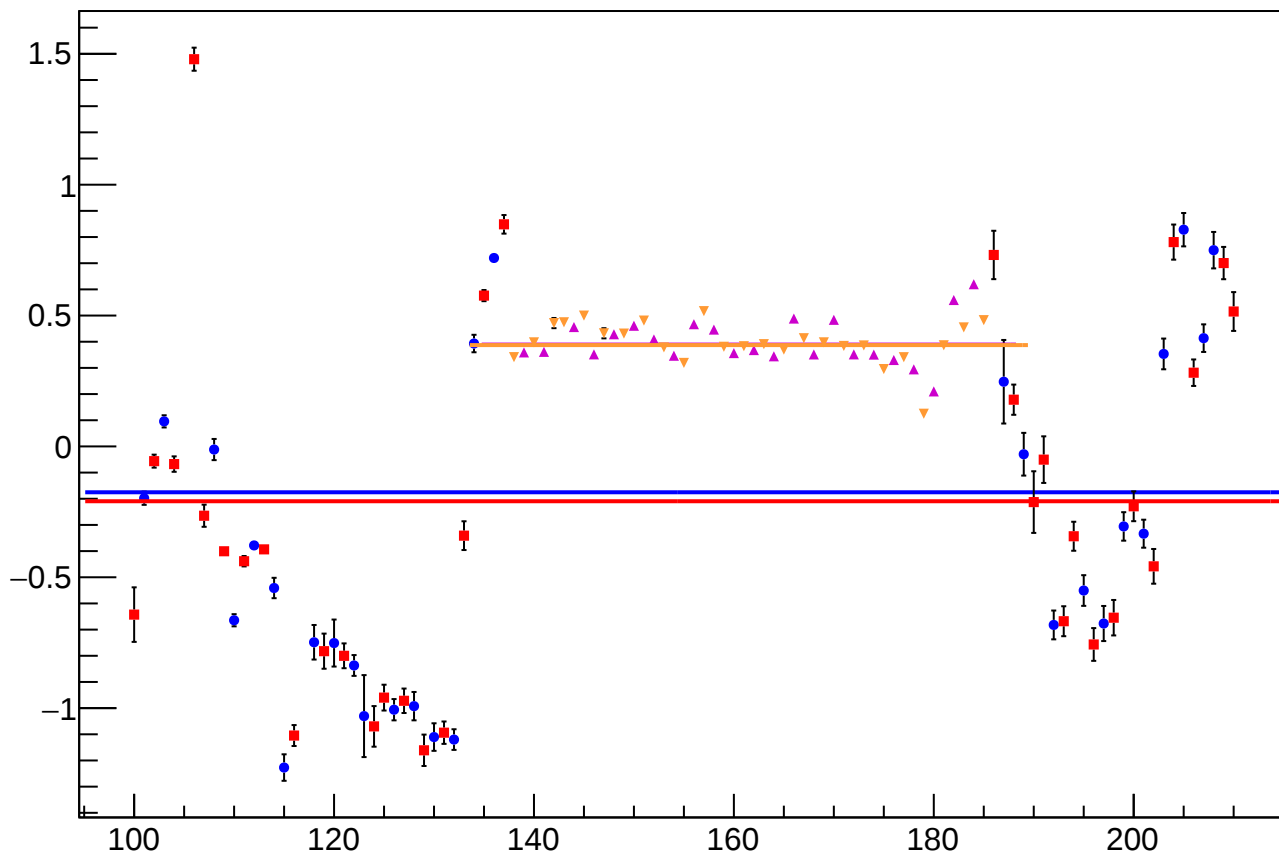


Right In: -16.352 ± 0.129 $\chi^2/\text{NDF}: 1804.2/27$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.994 ± 0.124 $\chi^2/\text{NDF}: 1388.2/32$
 Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$
 Right: -16.686 ± 0.089 $\chi^2/\text{NDF}: 3205.4/60$
 In: -19.024 ± 0.052 $\chi^2/\text{NDF}: 6632.3/50$
 Out: -19.090 ± 0.051 $\chi^2/\text{NDF}: 8253.3/57$

All: -19.058 ± 0.036 $\chi^2/\text{NDF}: 14886.4/108$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.175 ± 0.007 χ^2/NDF : 7160.2/27

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.210 ± 0.007 χ^2/NDF : 7173.2/32

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

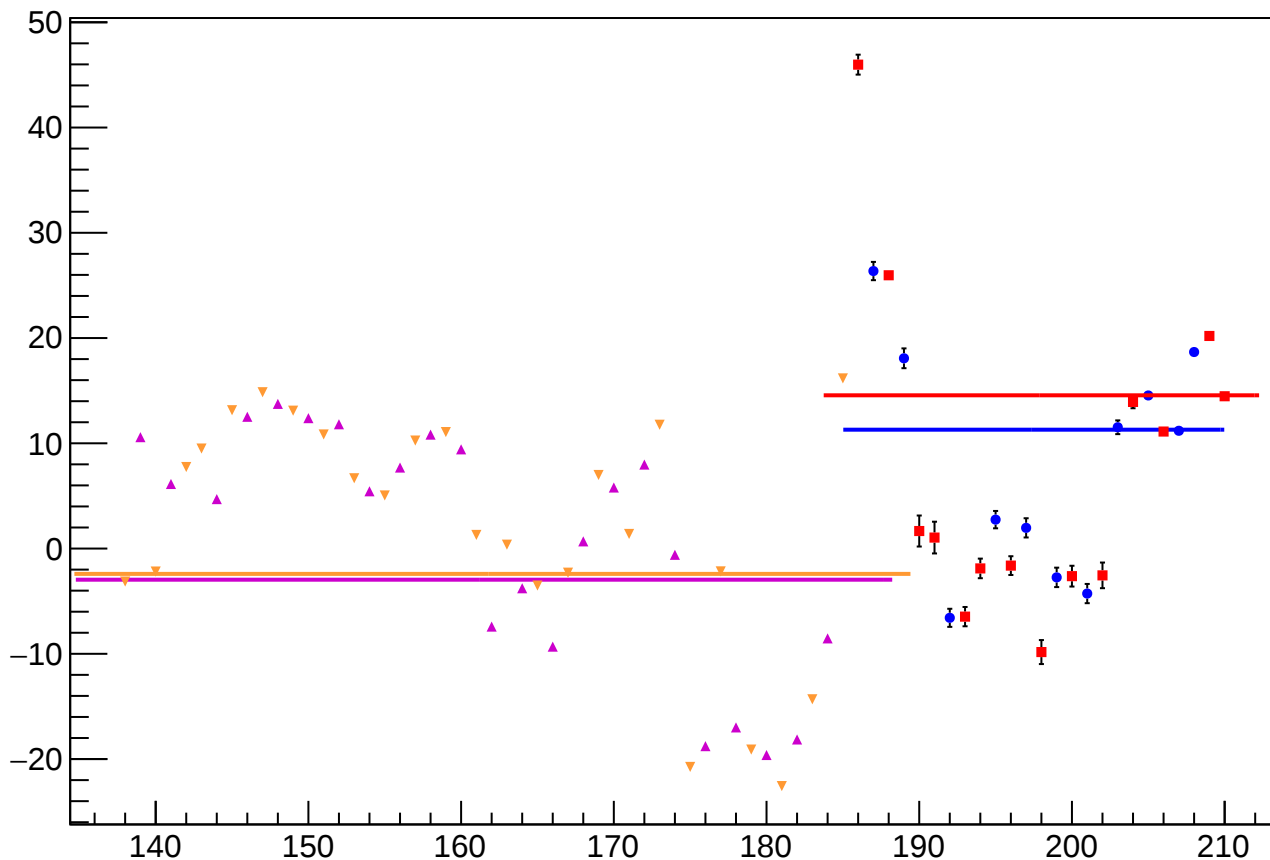
Right: -0.193 ± 0.005 χ^2/NDF : 14346.0/60

In: 0.320 ± 0.002 χ^2/NDF : 14100.6/50

Out: 0.310 ± 0.002 χ^2/NDF : 15199.9/57

All: 0.315 ± 0.002 χ^2/NDF : 29309.2/108

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.293+/-0.195 χ^2/NDF : 1865.3/10

Left Out: -2.407+/-0.053 χ^2/NDF : 56368.5/24

Right Out: 14.560+/-0.170 χ^2/NDF : 4425.3/13

Left In: -2.959+/-0.055 χ^2/NDF : 45922.6/22

Left: -2.672+/-0.038 χ^2/NDF : 102343.8/47

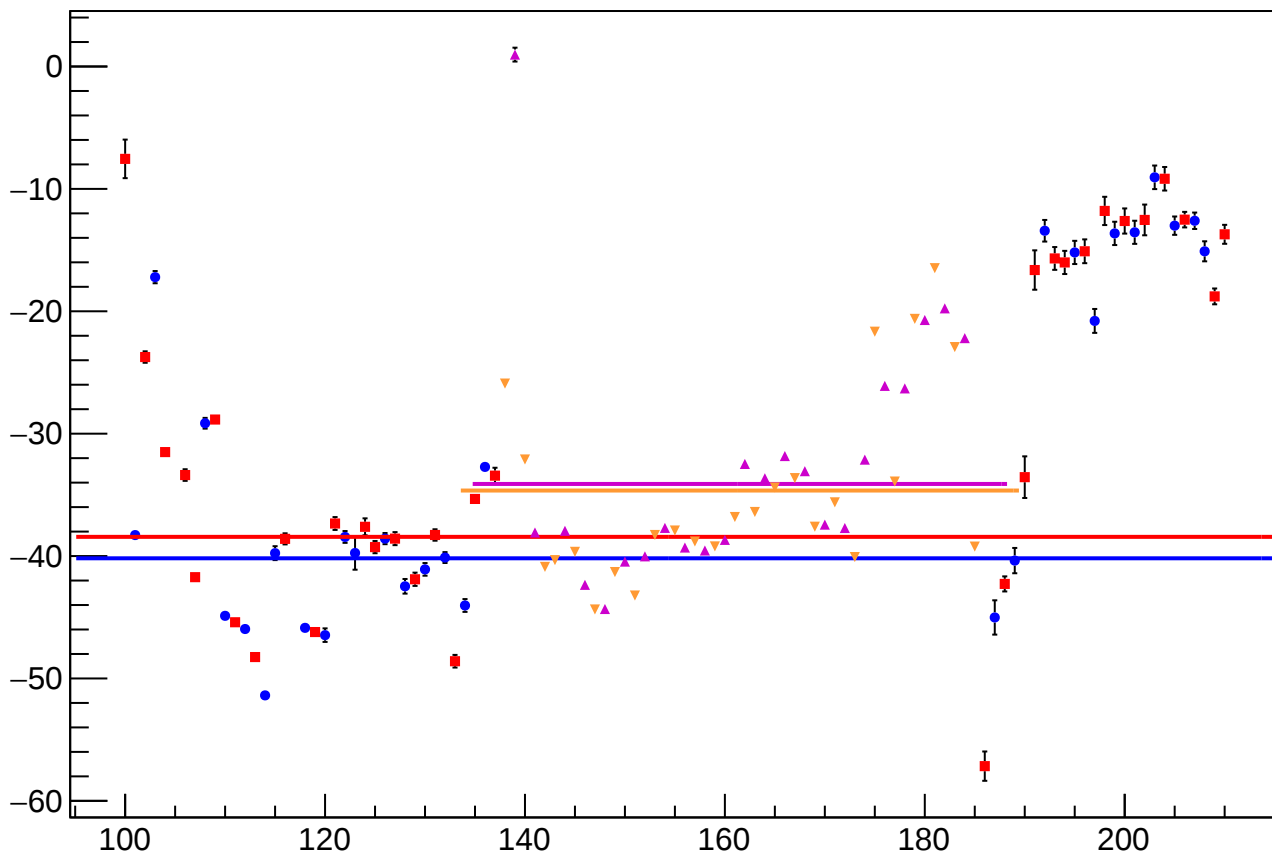
Right: 13.151+/-0.128 χ^2/NDF : 6450.4/24

In: -1.913+/-0.053 χ^2/NDF : 52743.3/33

Out: -0.911+/-0.050 χ^2/NDF : 69908.7/38

All: -1.388+/-0.036 χ^2/NDF : 122840.5/72

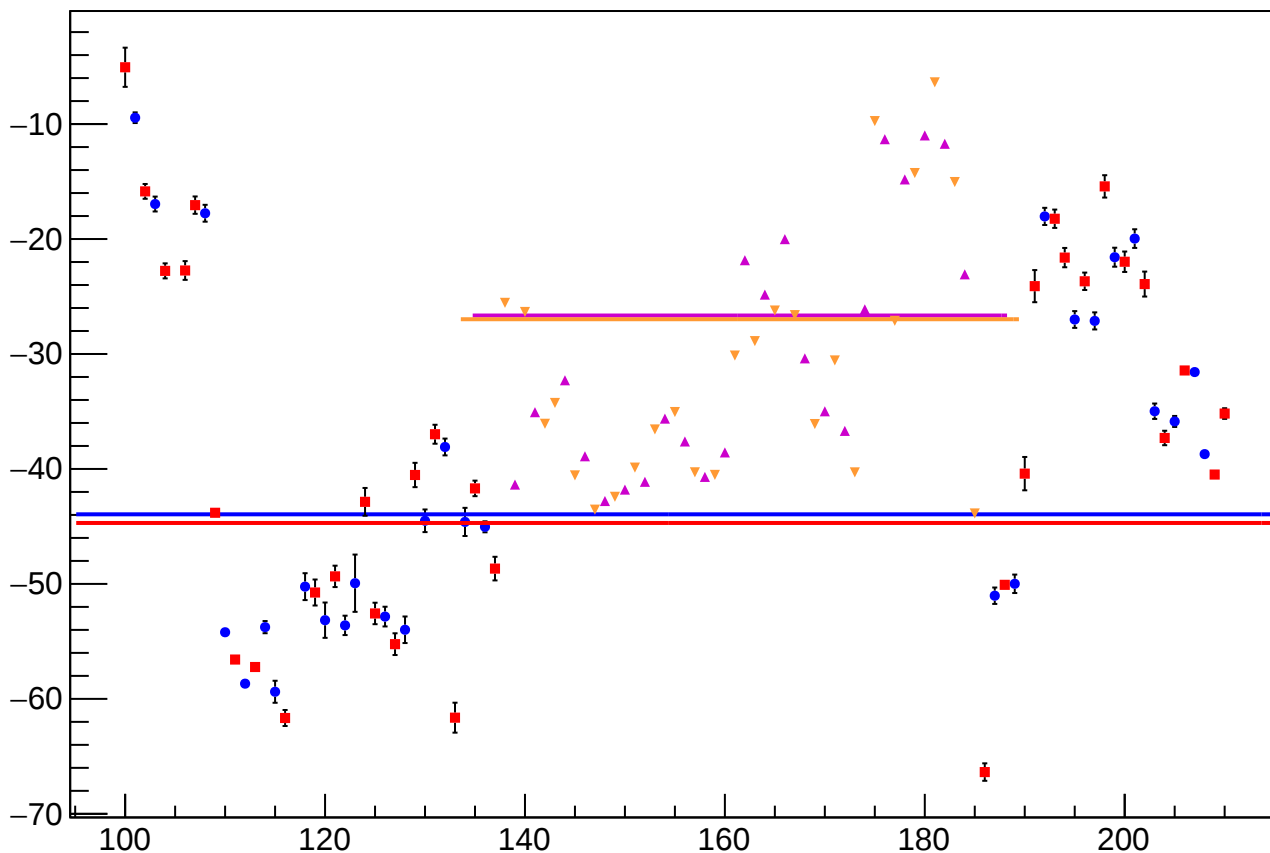
reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.182 ± 0.075 $\chi^2/\text{NDF}: 15762.2/27$
 Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$
 Right Out: -38.430 ± 0.070 $\chi^2/\text{NDF}: 20152.4/32$
 Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$
 Right: -39.241 ± 0.051 $\chi^2/\text{NDF}: 36207.2/60$
 In: -35.659 ± 0.038 $\chi^2/\text{NDF}: 49687.9/50$
 Out: -35.646 ± 0.036 $\chi^2/\text{NDF}: 56996.7/57$
 All: -35.652 ± 0.026 $\chi^2/\text{NDF}: 106684.6/108$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.947 ± 0.103 $\chi^2/\text{NDF}: 21608.2/27$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -44.699 ± 0.089 $\chi^2/\text{NDF}: 20316.7/32$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

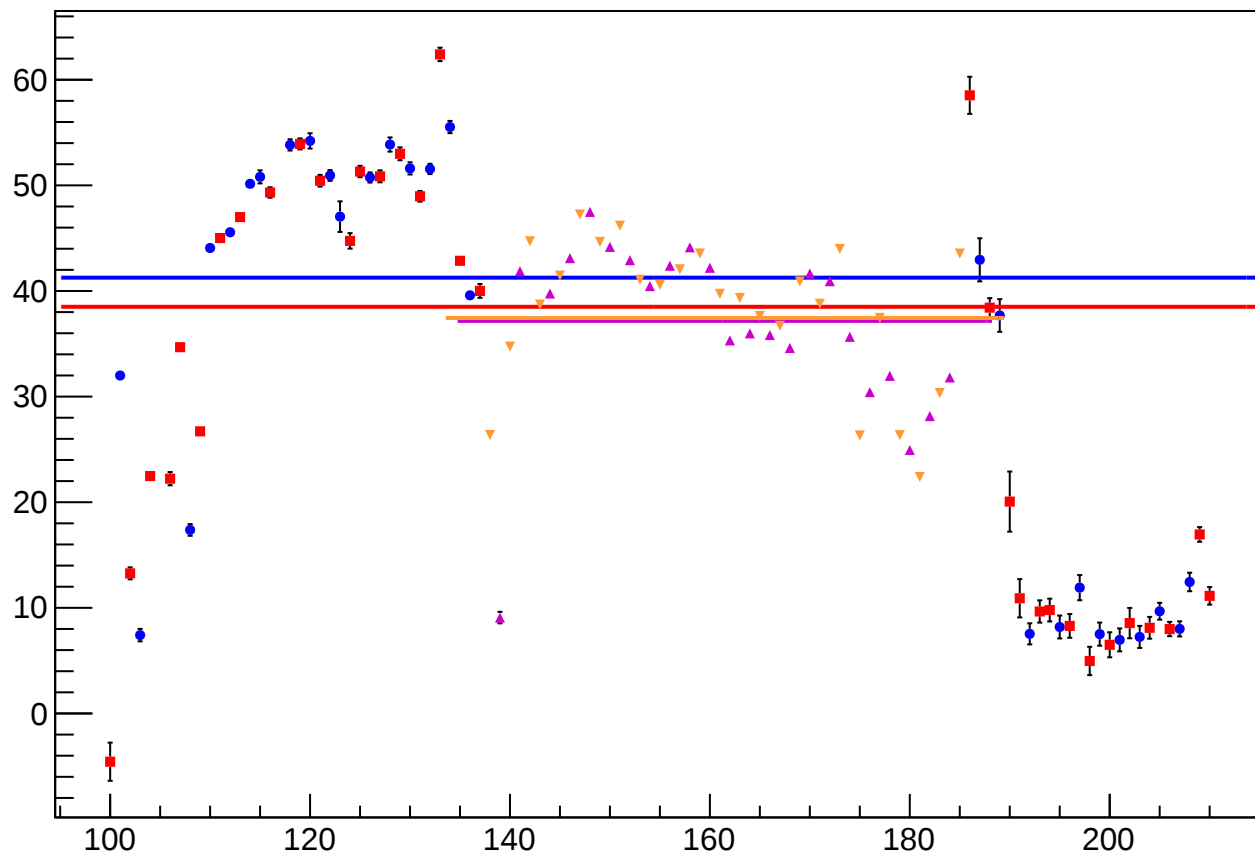
Right: -44.380 ± 0.067 $\chi^2/\text{NDF}: 41955.4/60$

In: -30.466 ± 0.049 $\chi^2/\text{NDF}: 85560.7/50$

Out: -31.667 ± 0.046 $\chi^2/\text{NDF}: 99051.5/57$

All: -31.103 ± 0.033 $\chi^2/\text{NDF}: 184937.4/108$

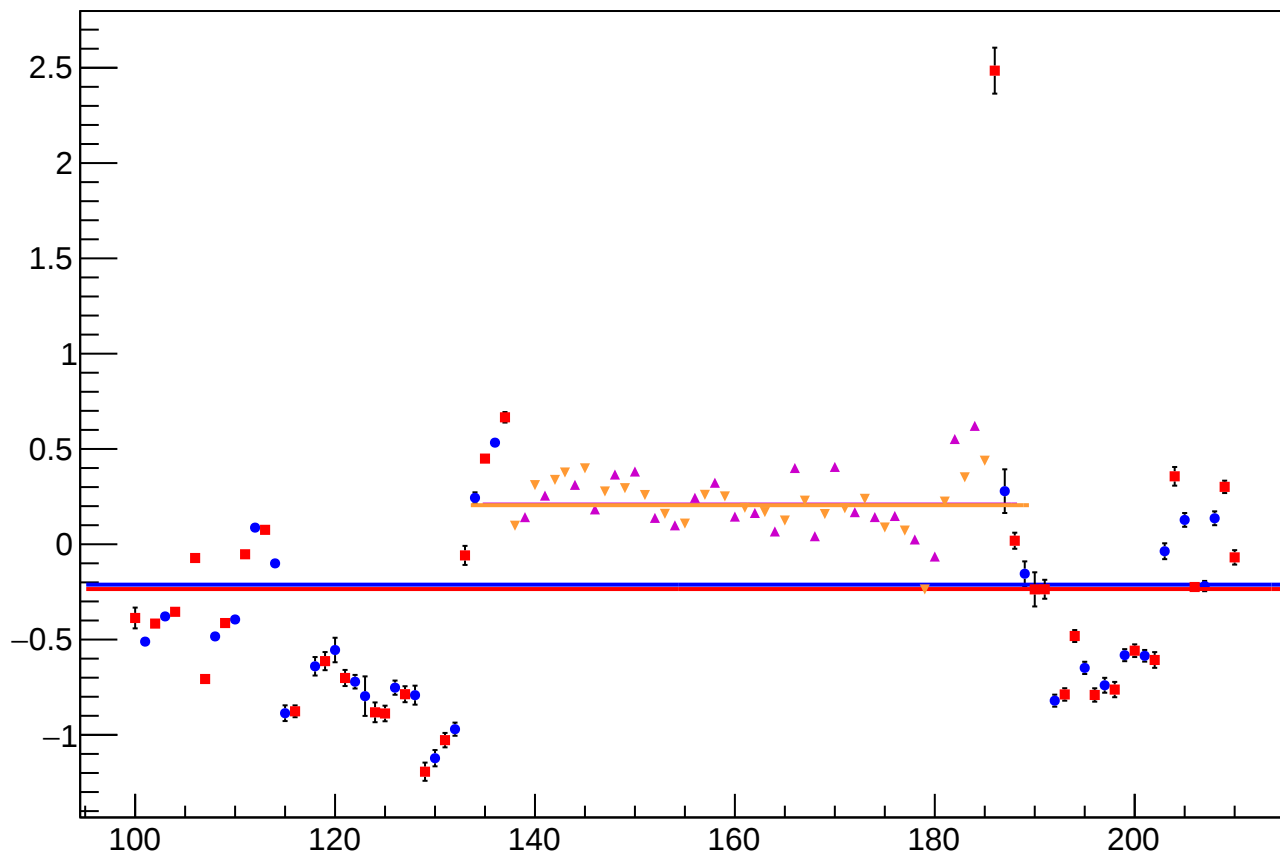
reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.262 ± 0.084 $\chi^2/\text{NDF}: 21851.6/27$
 Left Out: 37.447 ± 0.047 $\chi^2/\text{NDF}: 21570.6/24$
 Right Out: 38.504 ± 0.077 $\chi^2/\text{NDF}: 27520.7/32$
 Left In: 37.169 ± 0.049 $\chi^2/\text{NDF}: 17236.9/22$

Left: 37.314 ± 0.034 $\chi^2/\text{NDF}: 38824.1/47$
 Right: 39.770 ± 0.057 $\chi^2/\text{NDF}: 49959.7/60$
 In: 38.222 ± 0.042 $\chi^2/\text{NDF}: 40864.0/50$
 Out: 37.735 ± 0.040 $\chi^2/\text{NDF}: 49228.1/57$
 All: 37.965 ± 0.029 $\chi^2/\text{NDF}: 90161.5/108$

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.212 ± 0.004 χ^2/NDF : 8645.9/27

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.235 ± 0.004 χ^2/NDF : 9358.9/32

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

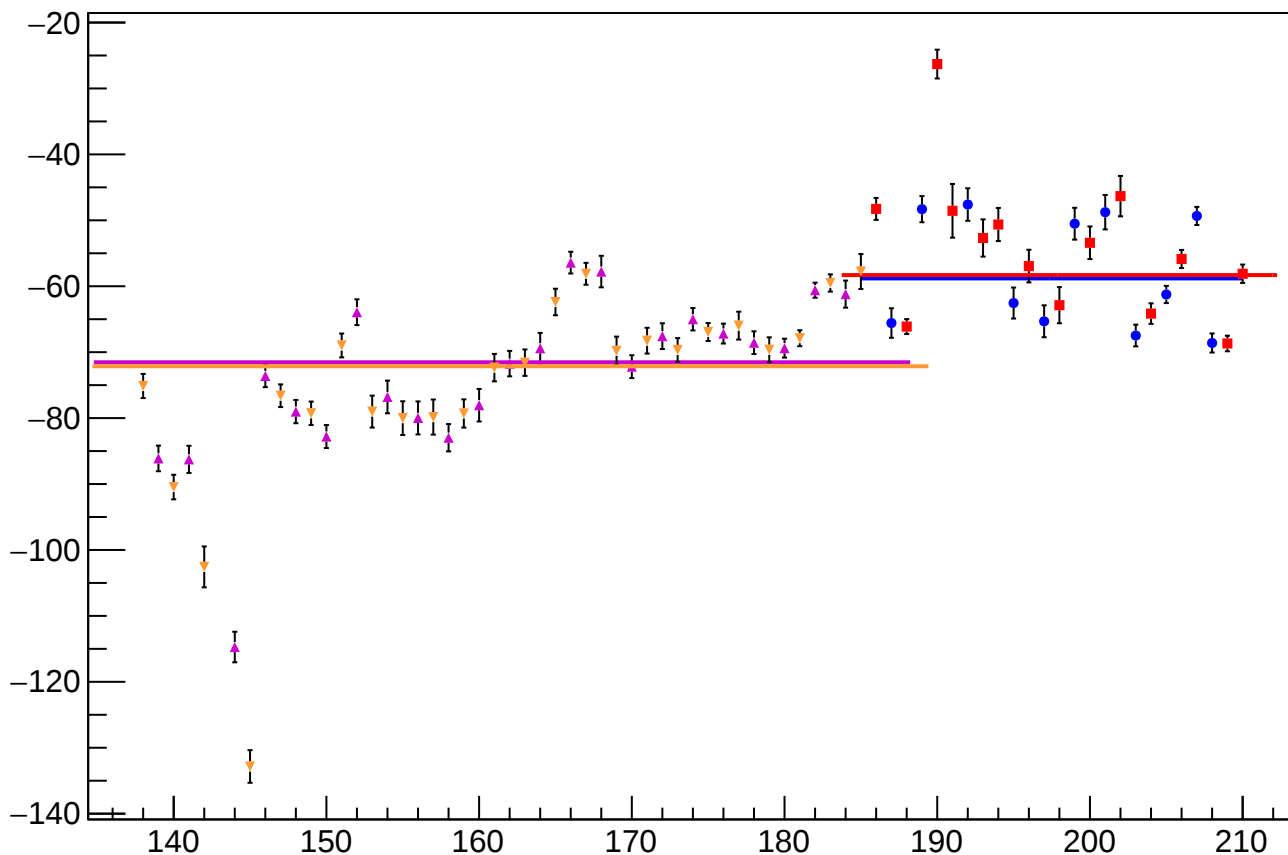
Right: -0.225 ± 0.003 χ^2/NDF : 18019.8/60

In: 0.122 ± 0.002 χ^2/NDF : 20914.5/50

Out: 0.103 ± 0.002 χ^2/NDF : 22647.6/57

All: 0.112 ± 0.001 χ^2/NDF : 43609.2/108

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.810 ± 0.555 χ^2/NDF : 218.7/10

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -58.305 ± 0.475 χ^2/NDF : 433.7/13

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

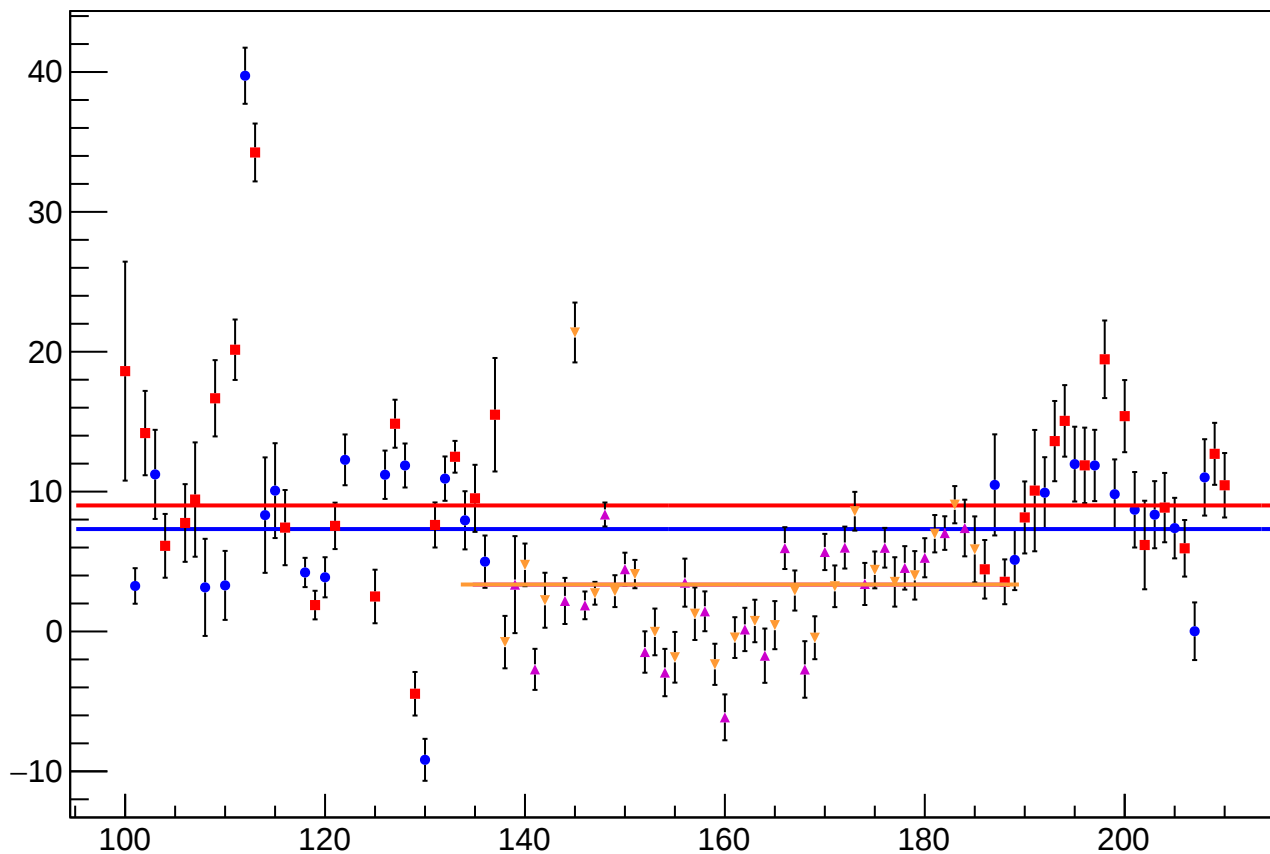
Right: -58.519 ± 0.361 χ^2/NDF : 652.9/24

In: -67.445 ± 0.314 χ^2/NDF : 1427.3/33

Out: -66.693 ± 0.298 χ^2/NDF : 2068.8/37

All: -67.049 ± 0.216 χ^2/NDF : 3499.1/71

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.322 $\pm$ 0.379 χ^2/NDF : 465.6/26

Left Out: 3.357 $\pm$ 0.295 χ^2/NDF :167.7/23

Right Out: 9.010 $\pm$ 0.368 χ^2/NDF : 402.2/31

Left In: 3.349 $\pm$ 0.298 χ^2/NDF :163.5/22

Left: 3.353 $\pm$ 0.210 χ^2/NDF : 331.2/46

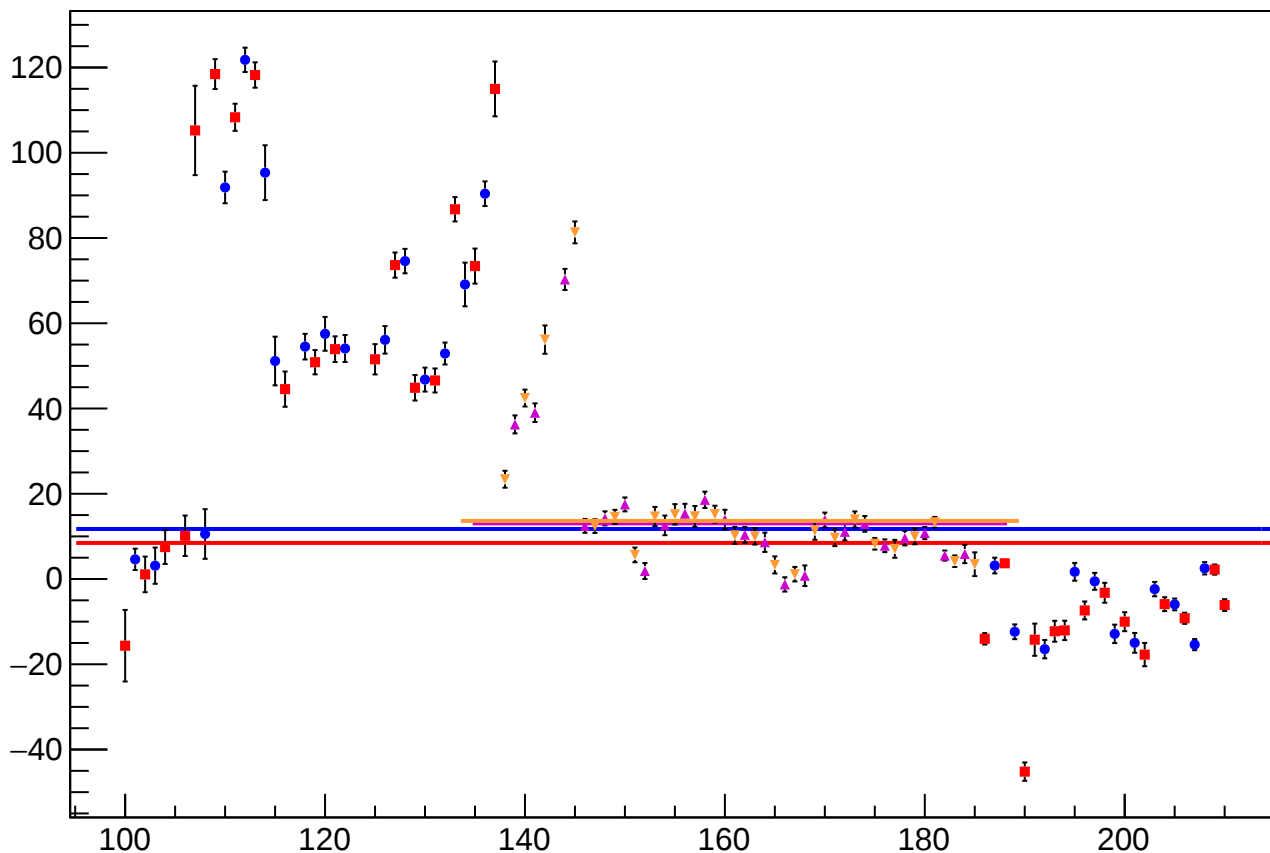
Right: 8.191 $\pm$ 0.264 χ^2/NDF : 878.0/58

In: 4.867 $\pm$ 0.234 χ^2/NDF :696.9/49

Out: 5.566 $\pm$ 0.230 χ^2/NDF :713.6/55

All: 5.223 $\pm$ 0.164 χ^2/NDF : 1415.1/105

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.741 $\pm$ 0.443 χ^2 /NDF: 6063.9/26

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 8.467 $\pm$ 0.386 χ^2 /NDF: 7952.0/31

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

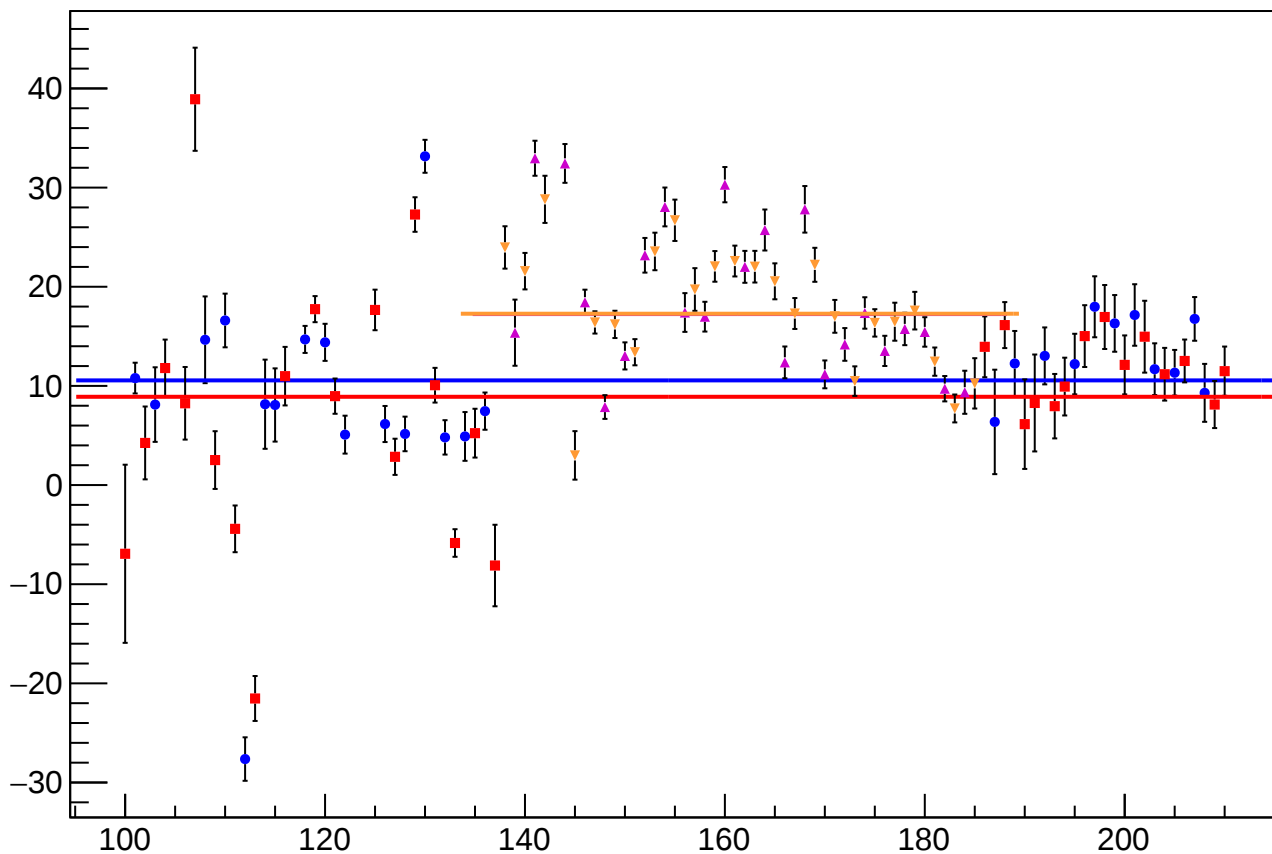
Right: 9.878 $\pm$ 0.291 χ^2 /NDF: 14046.9/58

In: 12.500 $\pm$ 0.288 χ^2 /NDF:7093.7/49

Out: 11.076 $\pm$ 0.271 χ^2 /NDF:9342.6/55

All: 11.745 $\pm$ 0.198 χ^2 /NDF: 16449.2/105

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.556 ± 0.437 $\chi^2/\text{NDF}: 576.3/26$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 8.903 ± 0.429 $\chi^2/\text{NDF}: 606.3/31$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

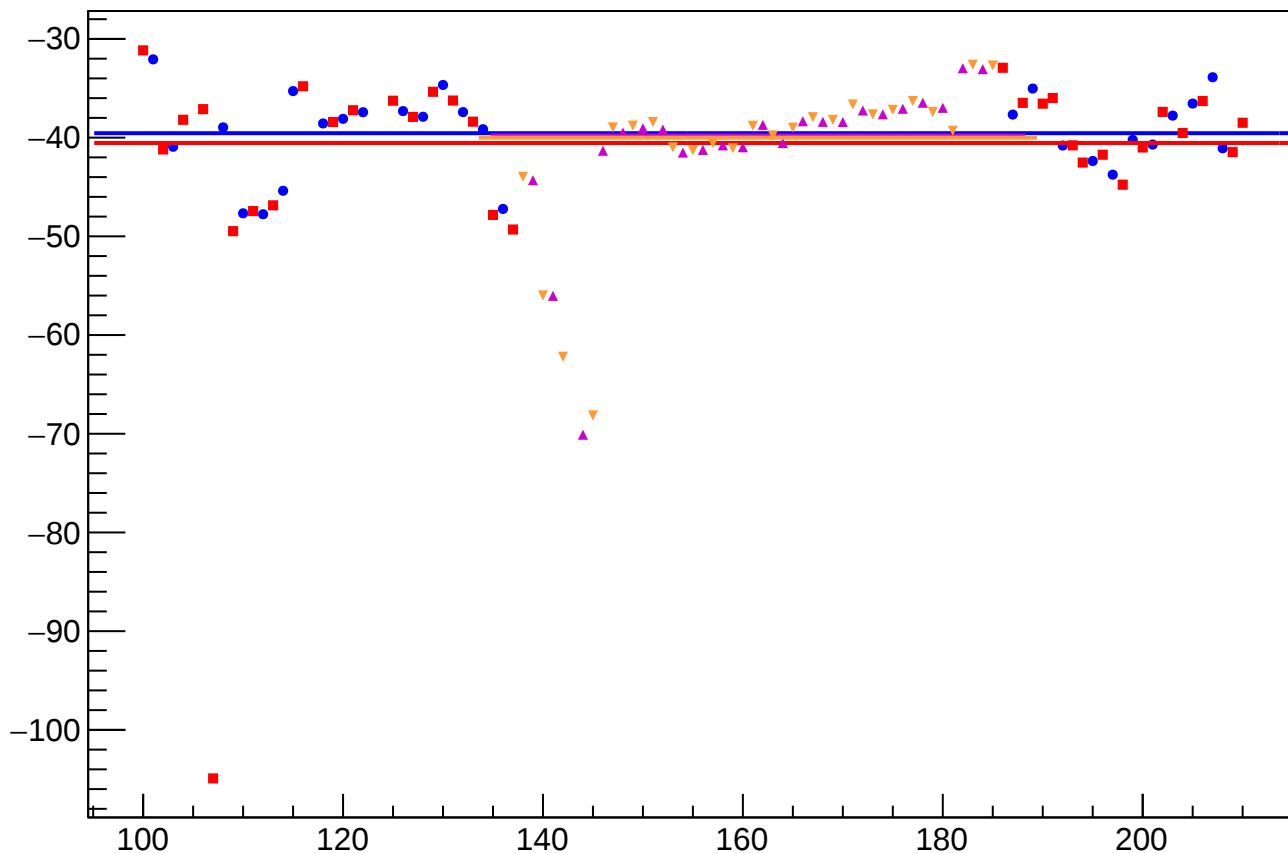
Right: 9.713 ± 0.306 $\chi^2/\text{NDF}: 1189.9/58$

In: 14.731 ± 0.268 $\chi^2/\text{NDF}: 1163.1/49$

Out: 14.081 ± 0.265 $\chi^2/\text{NDF}: 1086.0/55$

All: 14.402 ± 0.188 $\chi^2/\text{NDF}: 2252.0/105$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.550 ± 0.022 χ^2/NDF : 36488.5/26

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.543 ± 0.021 χ^2/NDF : 107108.0/31

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

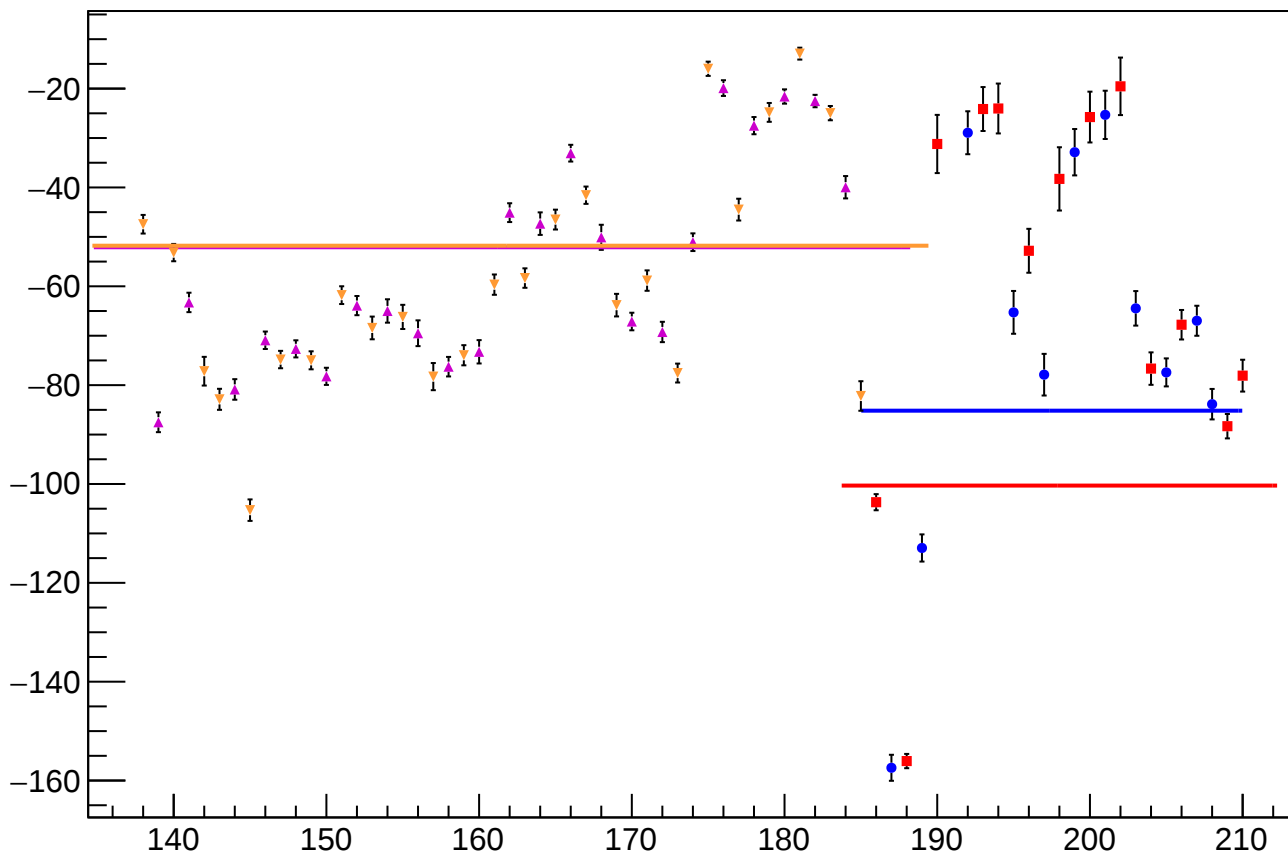
Right: -40.068 ± 0.015 χ^2/NDF : 144683.4/58

In: -39.705 ± 0.013 χ^2/NDF : 181059.8/49

Out: -40.197 ± 0.013 χ^2/NDF : 279805.2/55

All: -39.954 ± 0.009 χ^2/NDF : 461624.8/105

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.166 ± 1.028 χ^2/NDF : 1400.7/10

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -100.321 ± 0.795 χ^2/NDF : 3004.5/12

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

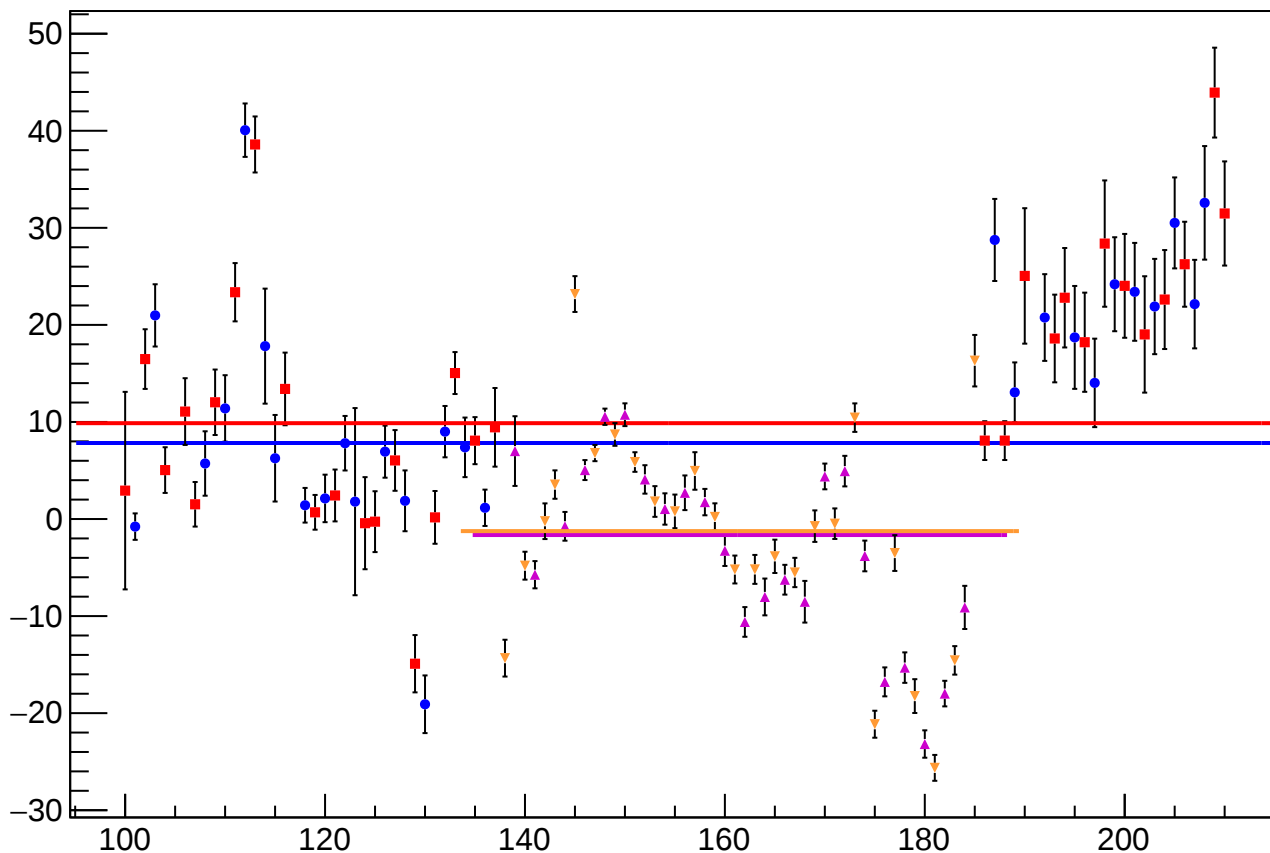
Right: -94.644 ± 0.629 χ^2/NDF : 4541.1/23

In: -56.240 ± 0.364 χ^2/NDF : 5586.2/33

Out: -60.908 ± 0.345 χ^2/NDF : 10192.8/37

All: -58.697 ± 0.250 χ^2/NDF : 15865.9/71

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.832 ± 0.571 $\chi^2/\text{NDF}: 438.0/27$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.875 ± 0.554 $\chi^2/\text{NDF}: 410.5/31$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

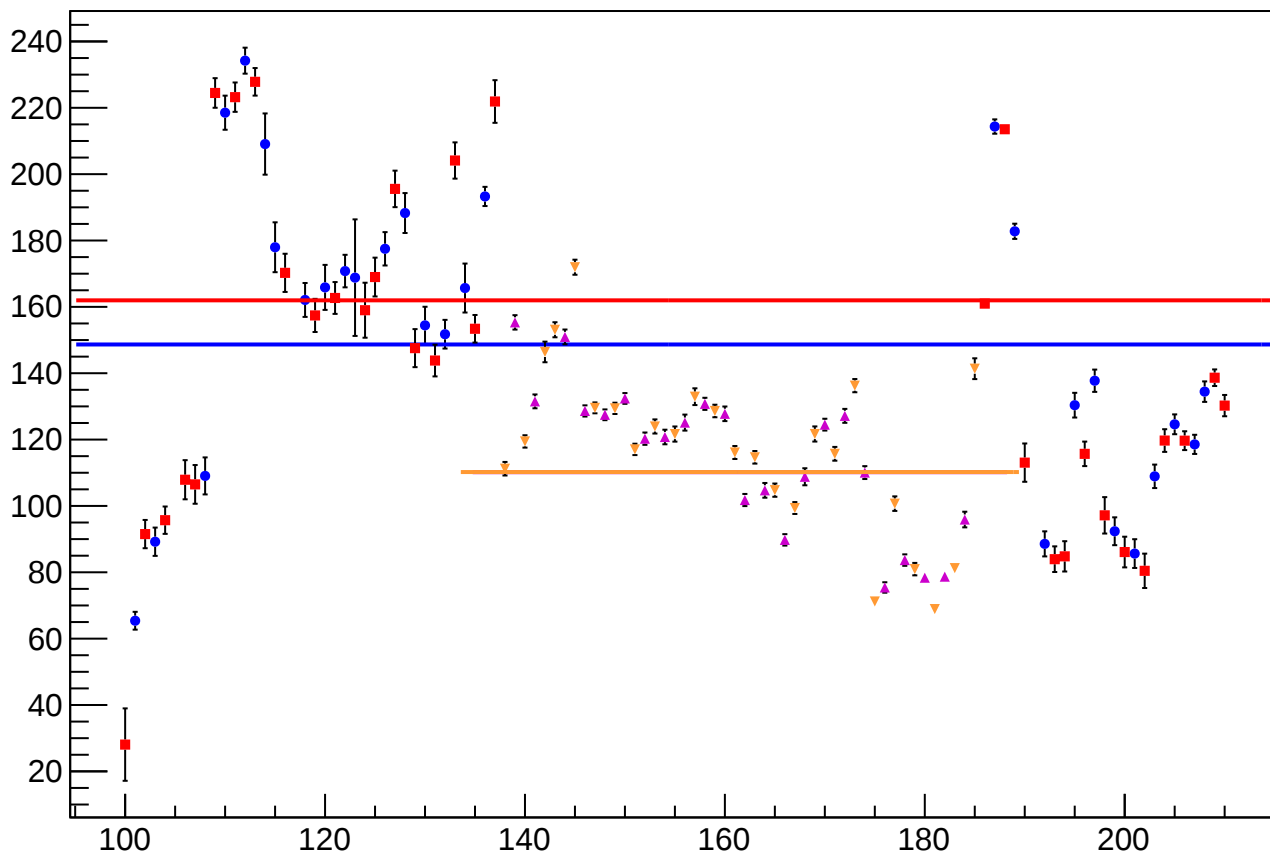
Right: 8.884 ± 0.397 $\chi^2/\text{NDF}: 855.1/59$

In: 0.405 ± 0.266 $\chi^2/\text{NDF}: 1746.5/50$

Out: 1.171 ± 0.258 $\chi^2/\text{NDF}: 2048.9/56$

All: 0.799 ± 0.185 $\chi^2/\text{NDF}: 3799.7/107$

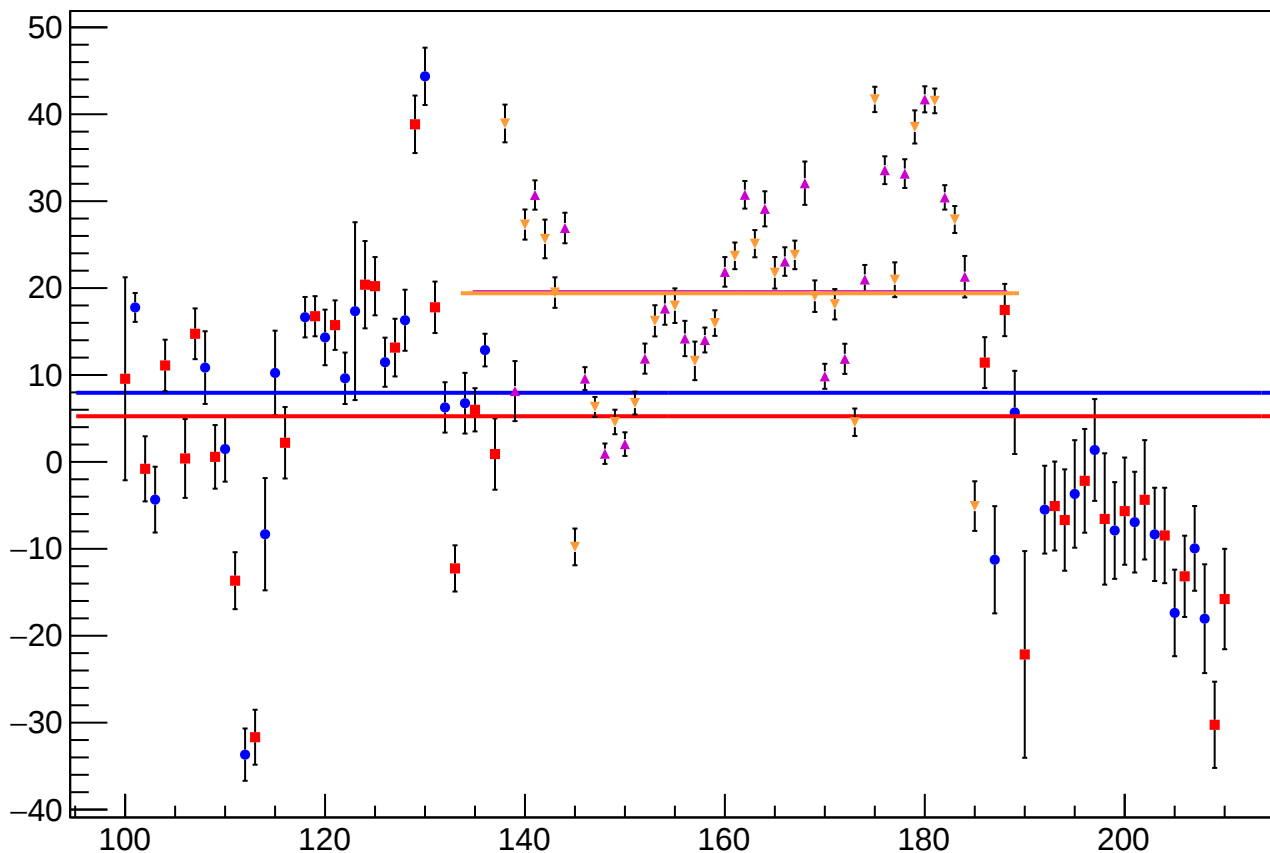
reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 148.664 ± 0.723 $\chi^2/\text{NDF}: 4427.4/27$
 Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$
 Right Out: 161.966 ± 0.592 $\chi^2/\text{NDF}: 5821.3/31$
 Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$
 Right: 156.622 ± 0.458 $\chi^2/\text{NDF}: 10451.4/59$
 In: 118.716 ± 0.340 $\chi^2/\text{NDF}: 10337.8/50$
 Out: 125.424 ± 0.321 $\chi^2/\text{NDF}: 15808.5/56$
 All: 122.267 ± 0.234 $\chi^2/\text{NDF}: 26351.8/107$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.953 $\pm$ 0.660 χ^2/NDF : 504.8/27

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF : 1453.4/24

Right Out: 5.254 $\pm$ 0.655 χ^2/NDF : 558.7/31

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

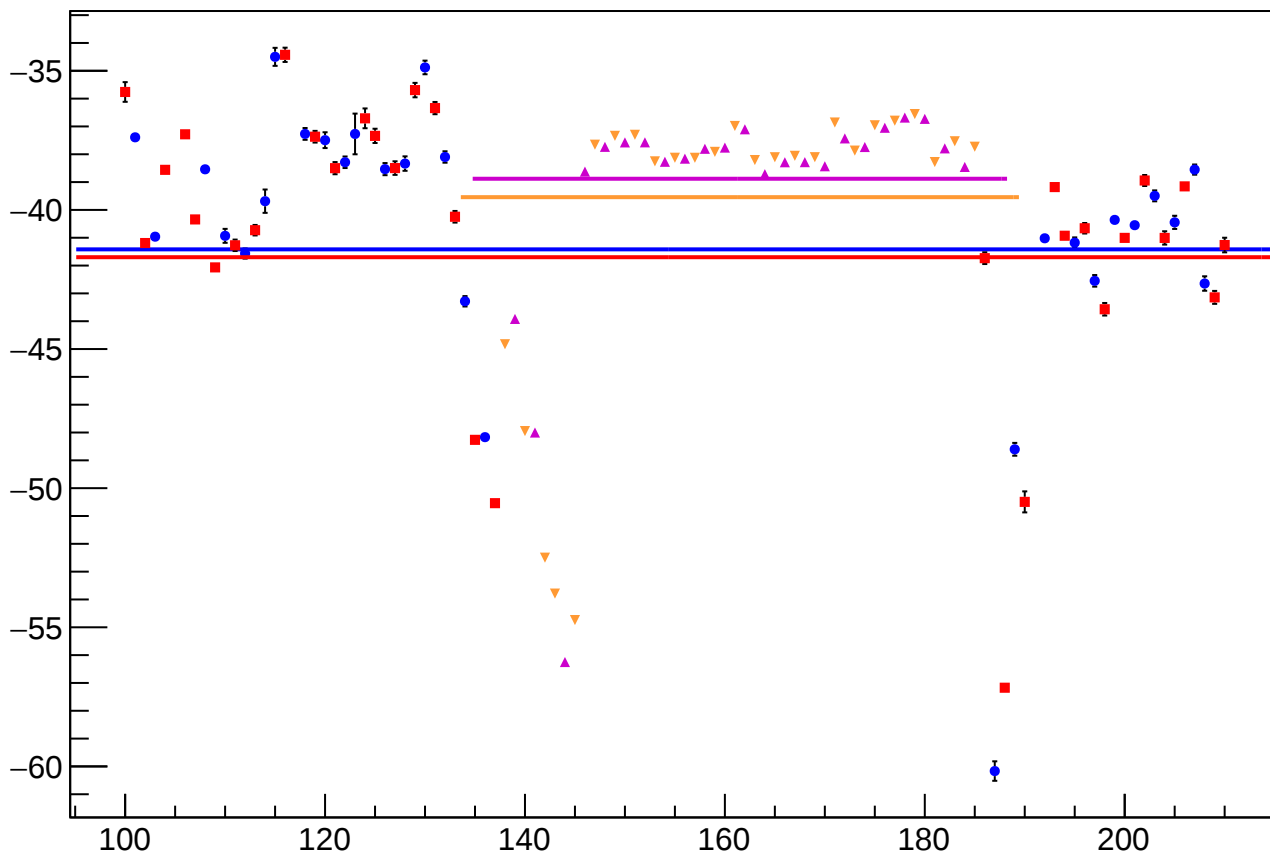
Right: 6.593 $\pm$ 0.465 χ^2/NDF : 1072.0/59

In: 17.075 $\pm$ 0.304 χ^2/NDF : 1928.5/50

Out: 16.478 $\pm$ 0.298 χ^2/NDF : 2382.0/56

All: 16.770 $\pm$ 0.213 χ^2/NDF : 4312.5/107

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.418 ± 0.032 χ^2/NDF : 16840.5/27

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.700 ± 0.032 χ^2/NDF : 23110.8/31

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

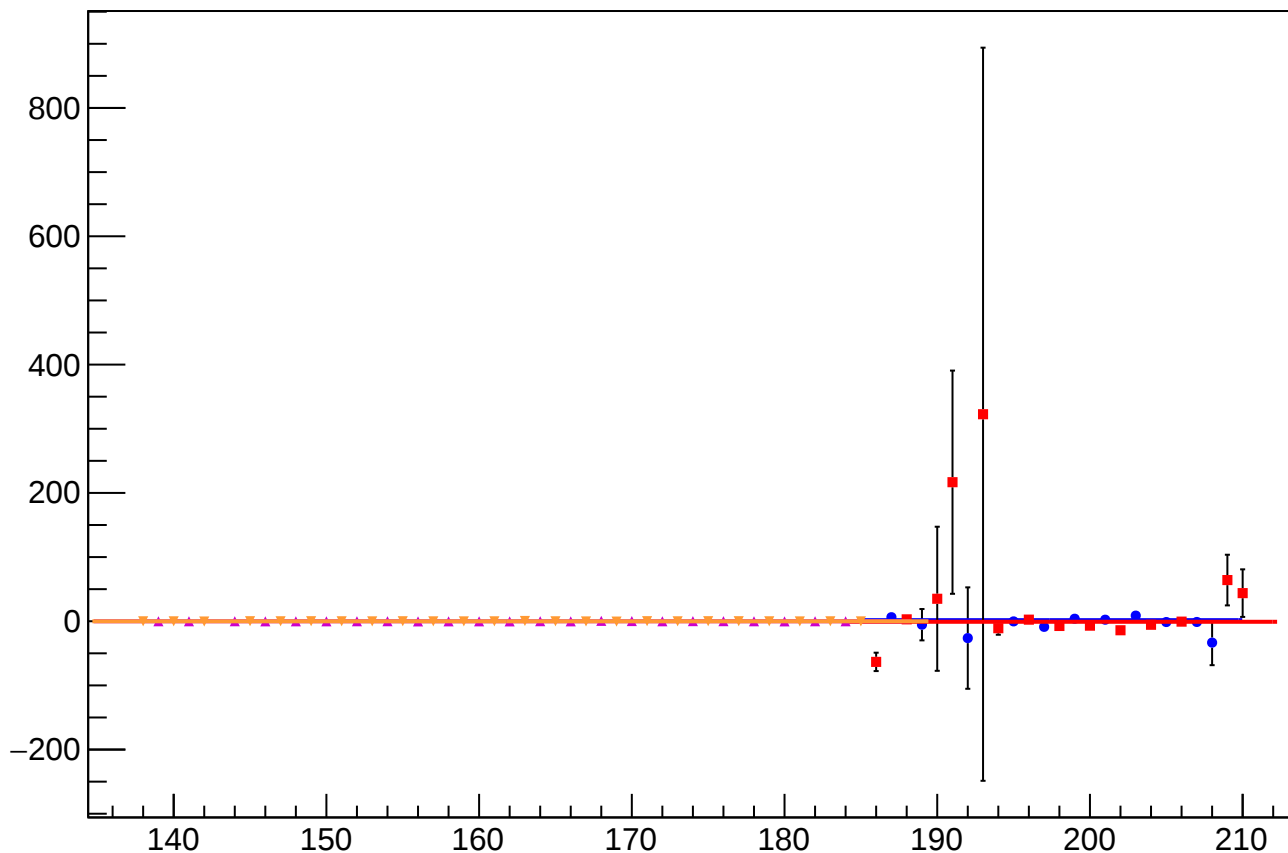
Right: -41.562 ± 0.023 χ^2/NDF : 39990.1/59

In: -39.370 ± 0.014 χ^2/NDF : 75195.3/50

Out: -39.970 ± 0.014 χ^2/NDF : 118866.2/56

All: -39.673 ± 0.010 χ^2/NDF : 194957.1/107

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.695 ± 1.536 $\chi^2/\text{NDF}: 12.2/10$

Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$

Right Out: -0.845 ± 1.420 $\chi^2/\text{NDF}: 36.7/13$

Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$

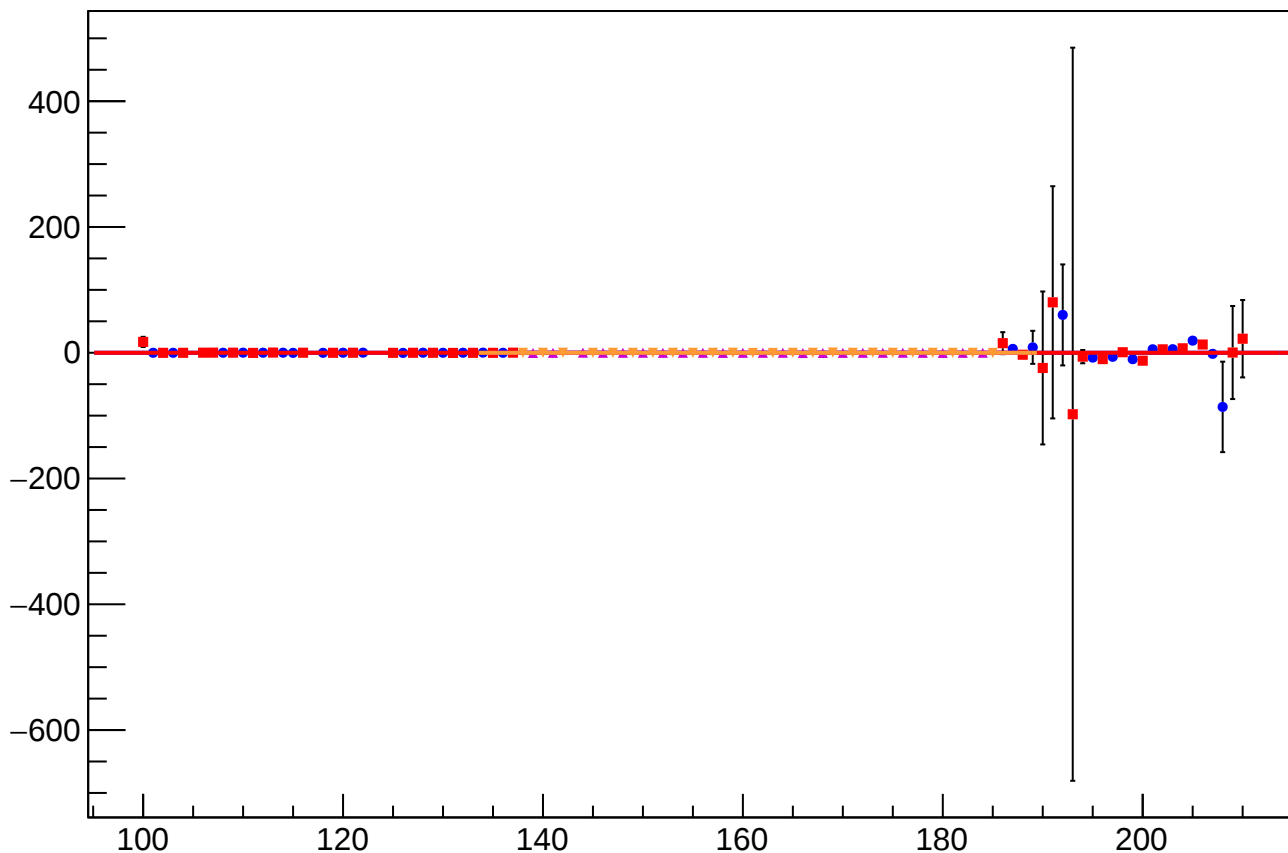
Right: 0.326 ± 1.043 $\chi^2/\text{NDF}: 50.4/24$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 46.8/33$

Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 76.7/37$

All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 127.6/71$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 33.3/26

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.2/31

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

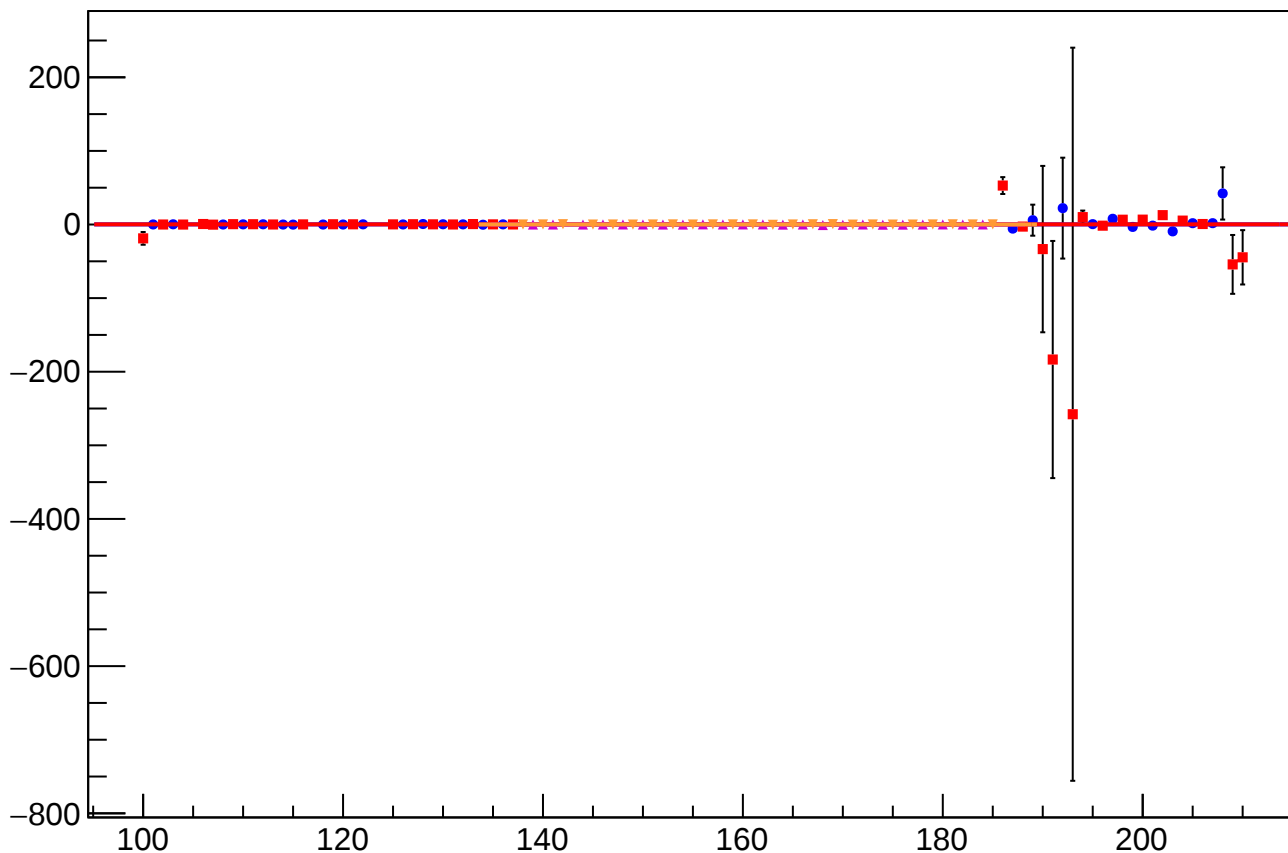
Right: -0.025 ± 0.020 χ^2/NDF : 76.0/58

In: -0.038 ± 0.015 χ^2/NDF : 67.3/49

Out: -0.073 ± 0.015 χ^2/NDF : 67.9/55

All: -0.056 ± 0.011 χ^2/NDF : 137.9/105

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 28.6/26

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 60.3/31

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

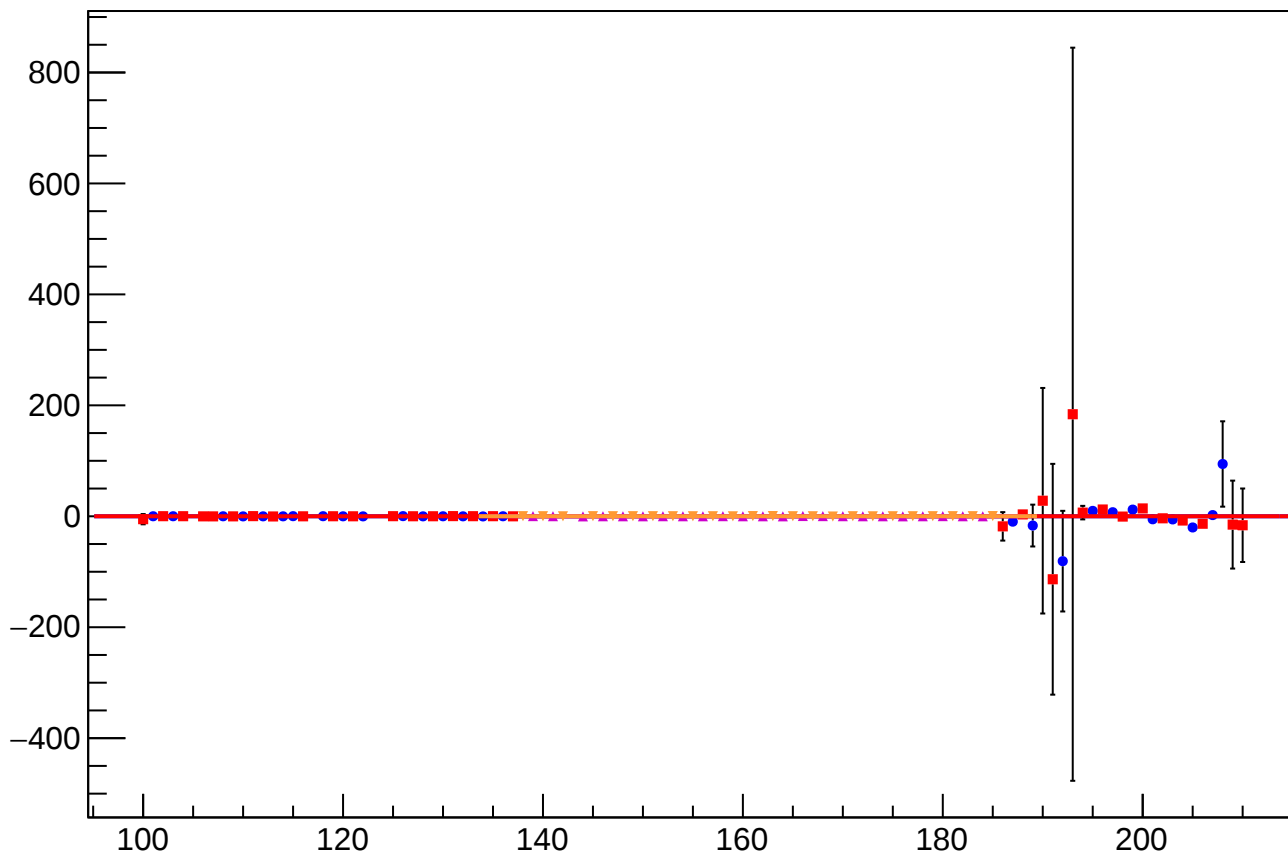
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 89.6/58

In: 0.043 $\pm$ 0.020 χ^2 /NDF:71.2/49

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:105.7/55

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 181.3/105

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 35.0/26

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.7/31

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

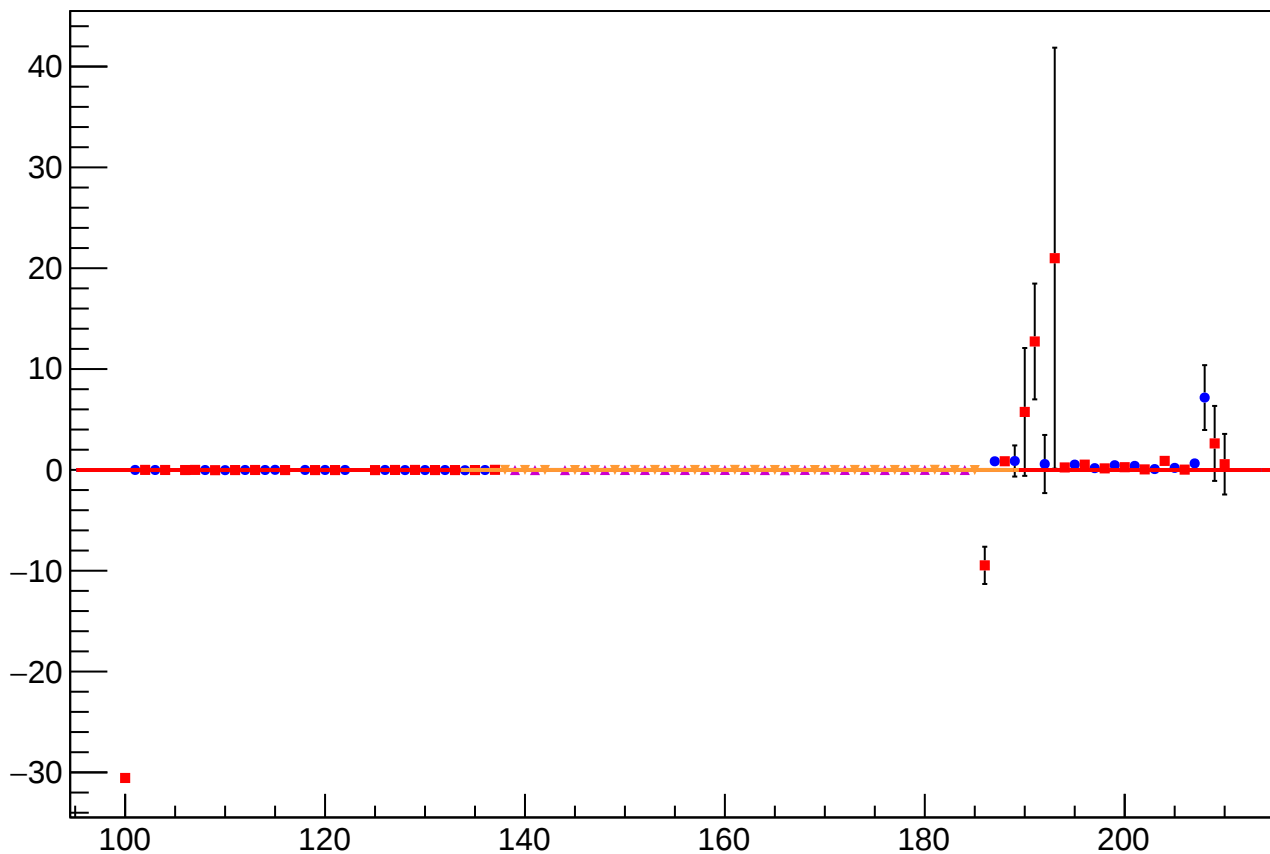
Right: 0.024 ± 0.024 χ^2/NDF : 71.5/58

In: 0.049 ± 0.017 χ^2/NDF : 70.2/49

Out: 0.093 ± 0.017 χ^2/NDF : 65.7/55

All: 0.071 ± 0.012 χ^2/NDF : 139.3/105

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 46.6/26

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.9/31

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

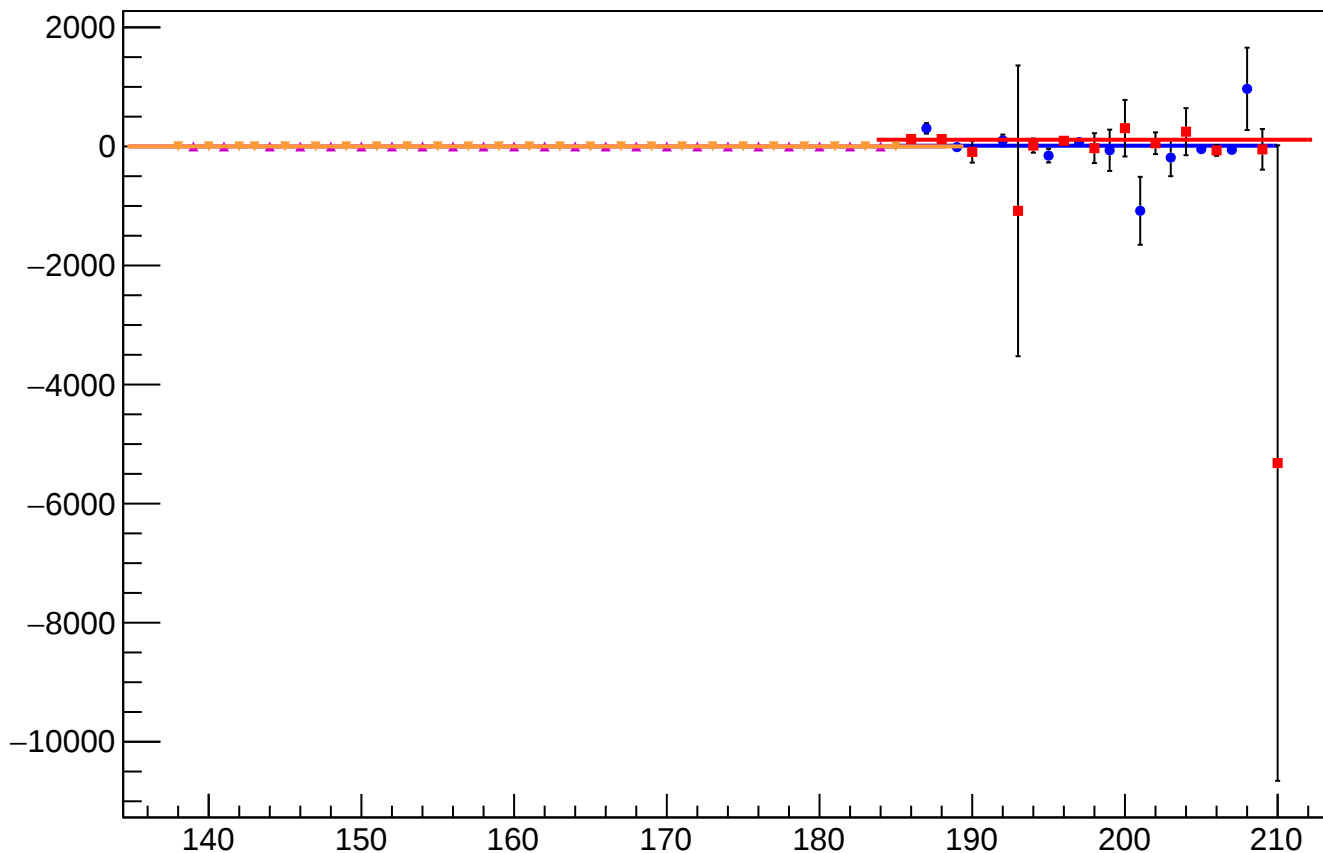
Right: -0.012 ± 0.001 χ^2/NDF : 12001.5/58

In: -0.009 ± 0.001 χ^2/NDF : 89.6/49

Out: -0.009 ± 0.001 χ^2/NDF : 11988.8/55

All: -0.009 ± 0.001 χ^2/NDF : 12078.6/105

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.895 ± 26.038 χ^2/NDF : 22.2/10

Left Out: 0.017 ± 0.027 χ^2/NDF : 30.9/24

Right Out: 112.536 ± 16.167 χ^2/NDF : 8.5/12

Left In: 0.002 ± 0.028 χ^2/NDF : 29.0/22

Left: 0.010 ± 0.019 χ^2/NDF : 60.1/47

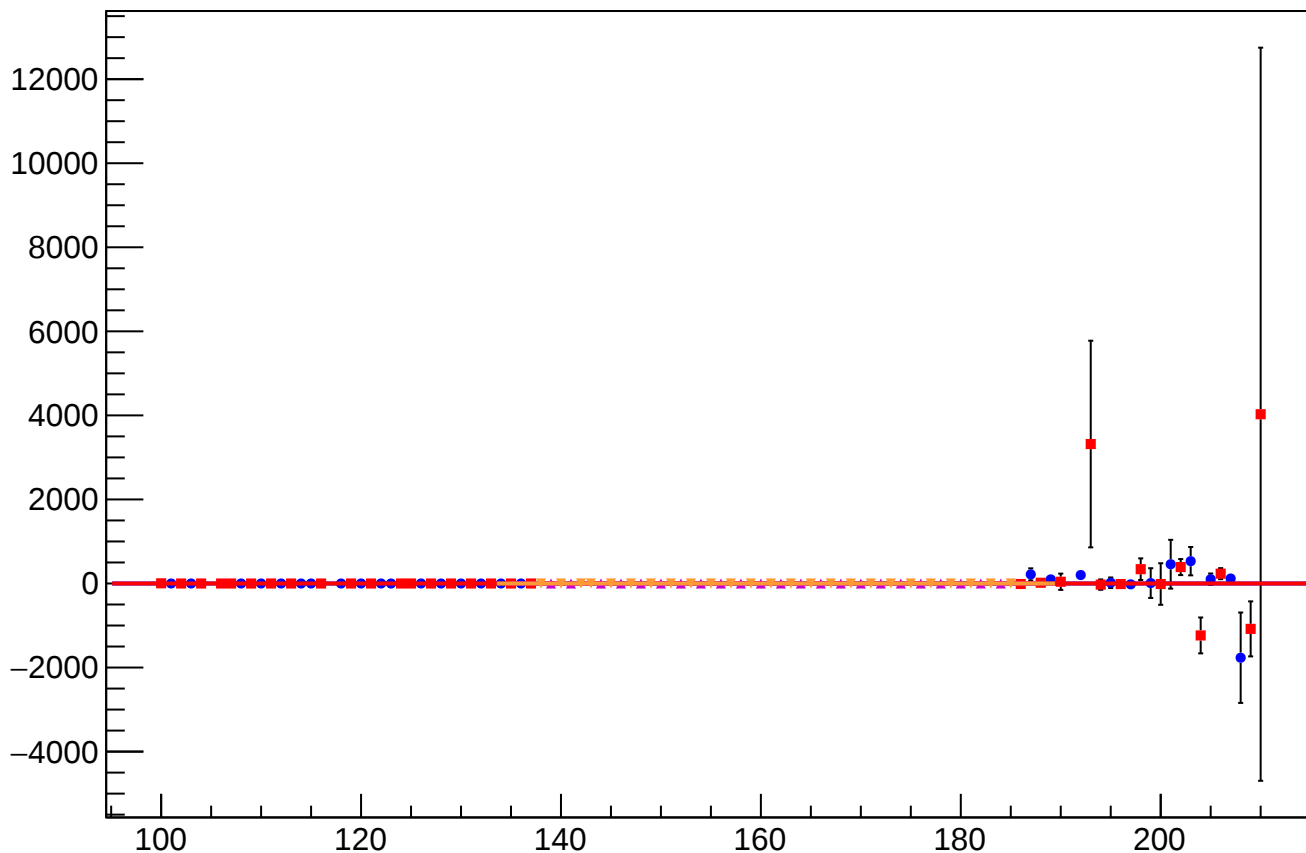
Right: 84.533 ± 13.735 χ^2/NDF : 41.5/23

In: 0.002 ± 0.028 χ^2/NDF : 51.4/33

Out: 0.018 ± 0.027 χ^2/NDF : 87.9/37

All: 0.010 ± 0.019 χ^2/NDF : 139.5/71

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 41.7/27$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 41.2/31$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

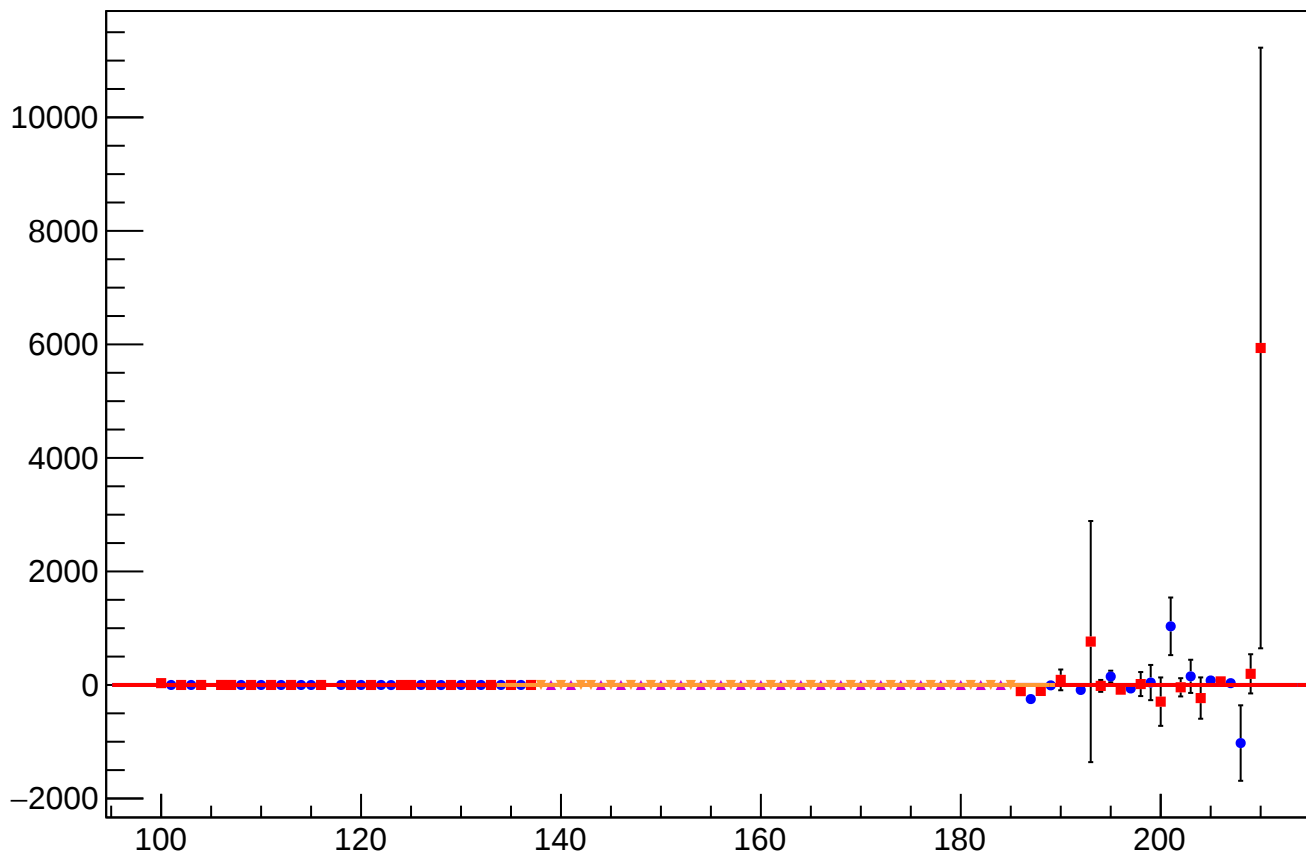
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 86.3/59$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 92.0/50$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.7/56$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 160.0/107$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 48.5/27$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 80.7/31$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

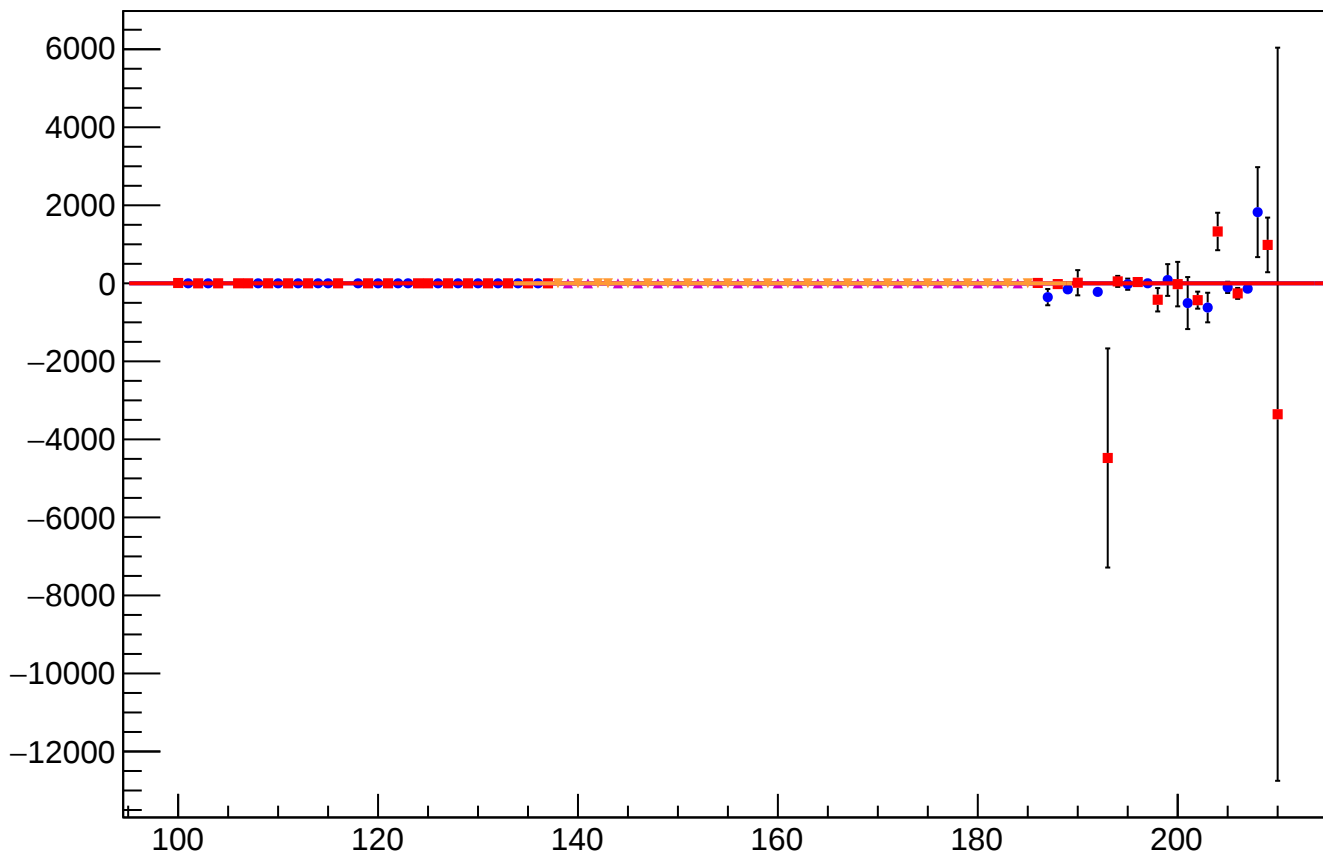
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 129.3/59$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 79.0/50$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 113.5/56$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 192.6/107$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 40.6/27

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 38.7/31

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

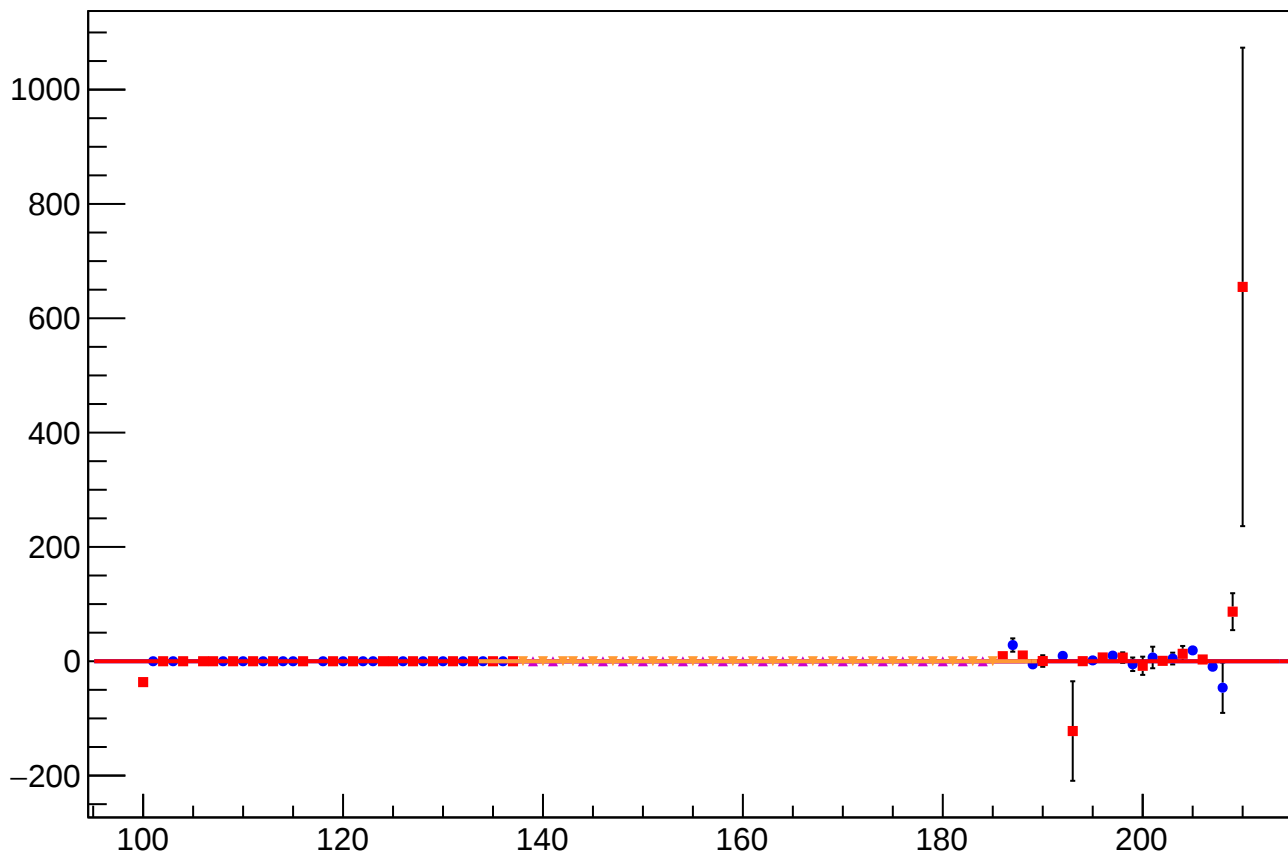
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 83.4/59

In: 0.056 $\pm$ 0.021 χ^2 /NDF:93.4/50

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:65.8/56

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 160.0/107

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 64.0/27

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10484.0/31

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

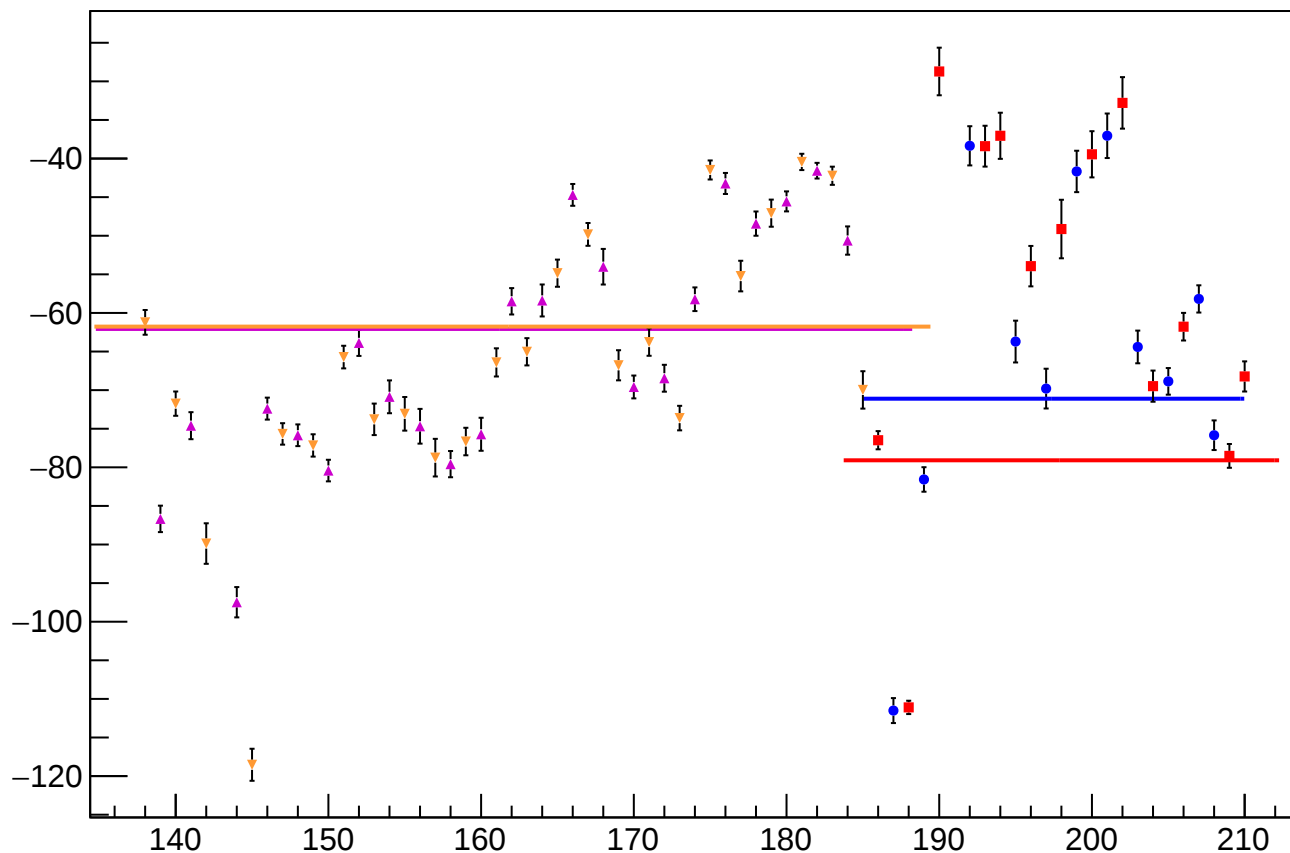
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10548.1/59

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 88.5/50

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10519.2/56

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10607.9/107

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.110 ± 0.616 $\chi^2/\text{NDF}: 1173.0/10$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -79.090 ± 0.495 $\chi^2/\text{NDF}: 2748.8/12$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

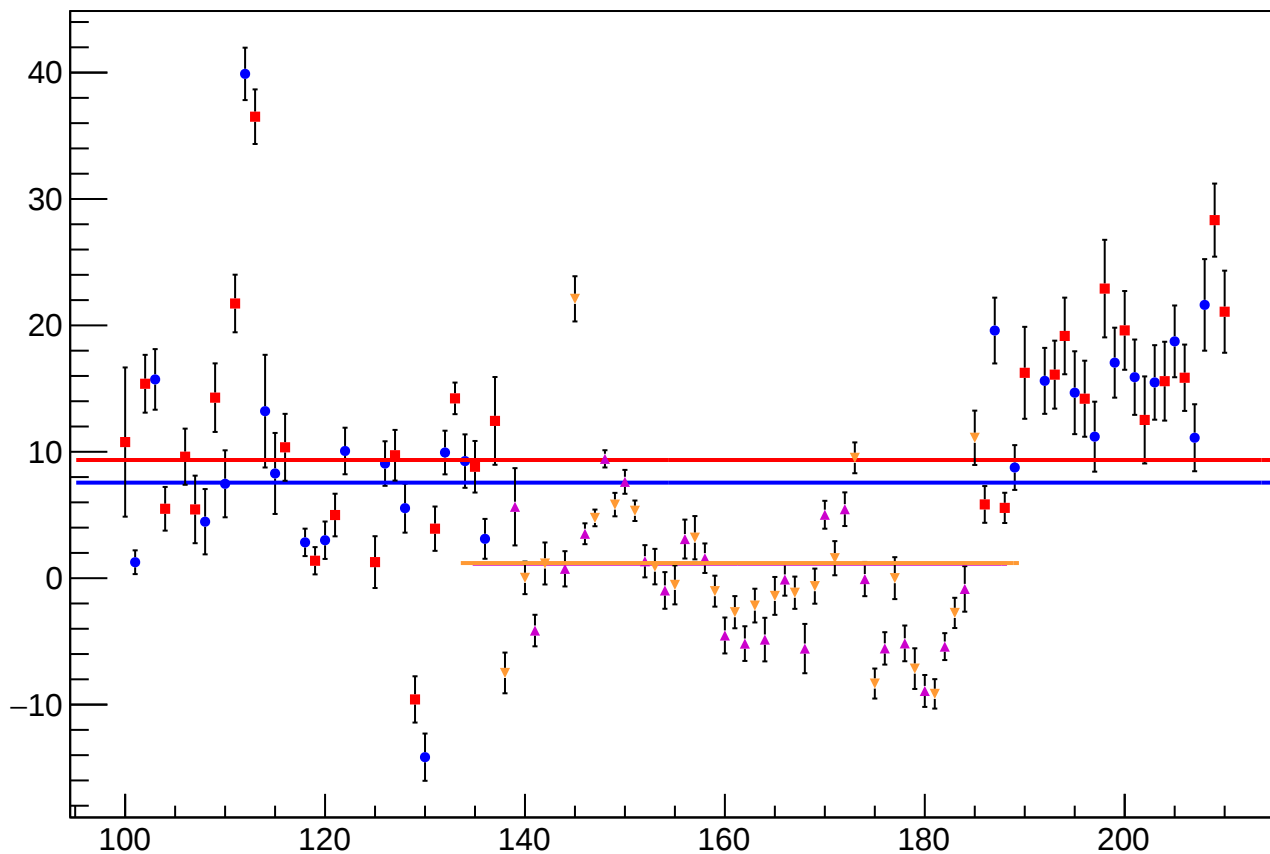
Right: -75.959 ± 0.386 $\chi^2/\text{NDF}: 4023.7/23$

In: -64.109 ± 0.293 $\chi^2/\text{NDF}: 3531.5/33$

Out: -67.183 ± 0.277 $\chi^2/\text{NDF}: 6094.5/36$

All: -65.730 ± 0.201 $\chi^2/\text{NDF}: 9684.3/70$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.560 ± 0.379 $\chi^2/\text{NDF}: 577.5/26$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.351 ± 0.373 $\chi^2/\text{NDF}: 544.1/30$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

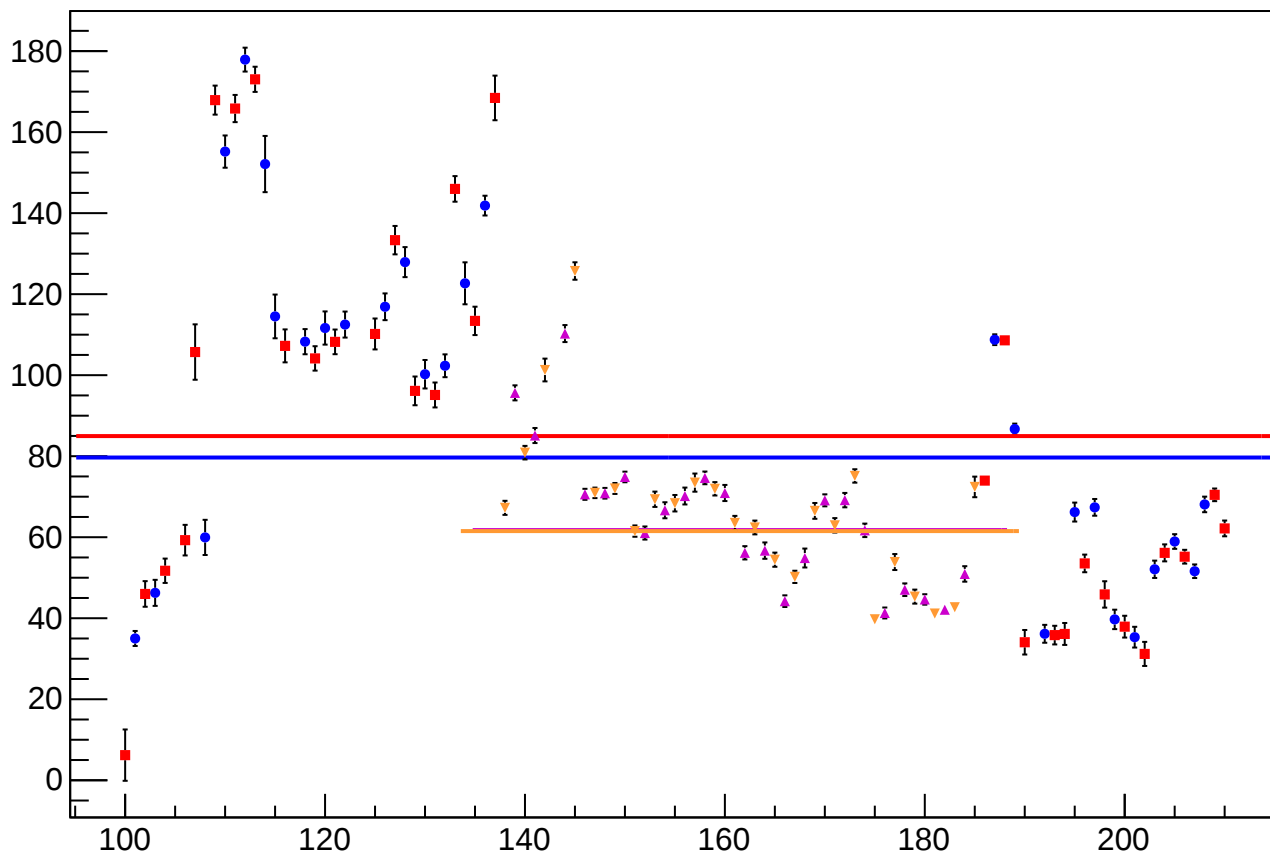
Right: 8.471 ± 0.266 $\chi^2/\text{NDF}: 1132.9/57$

In: 3.146 ± 0.212 $\chi^2/\text{NDF}: 1237.2/49$

Out: 3.762 ± 0.209 $\chi^2/\text{NDF}: 1398.1/54$

All: 3.458 ± 0.149 $\chi^2/\text{NDF}: 2639.6/104$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 79.674 $\pm$ 0.459 χ^2 /NDF: 5849.4/26

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 84.966 $\pm$ 0.382 χ^2 /NDF: 7517.6/30

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF: 2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

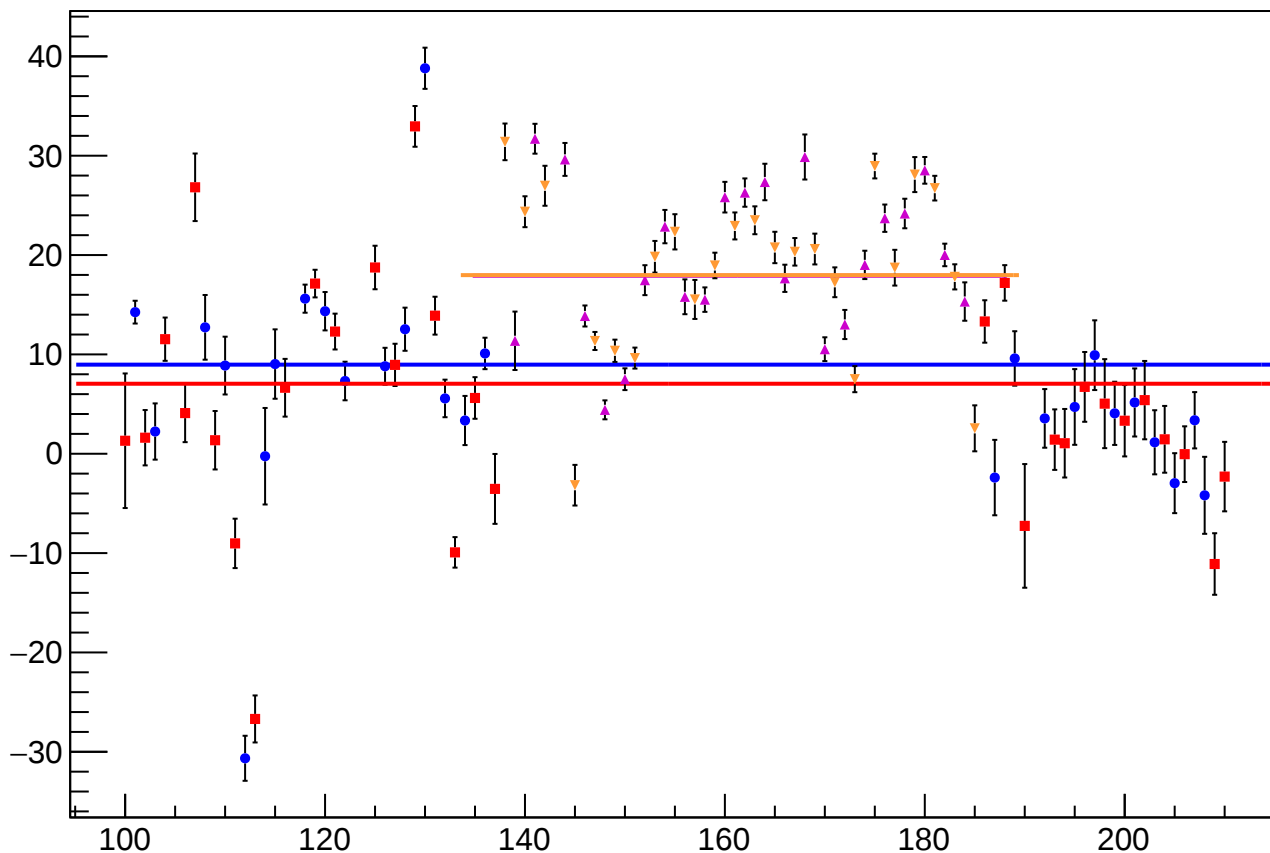
Right: 82.805 $\pm$ 0.294 χ^2 /NDF: 13445.5/57

In: 67.859 $\pm$ 0.268 χ^2 /NDF: 9270.6/49

Out: 71.627 $\pm$ 0.251 χ^2 /NDF: 12271.6/54

All: 69.869 $\pm$ 0.183 χ^2 /NDF: 21647.7/104

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.969 ± 0.444 χ^2/NDF : 641.1/26

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.047 ± 0.444 χ^2/NDF : 791.7/30

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

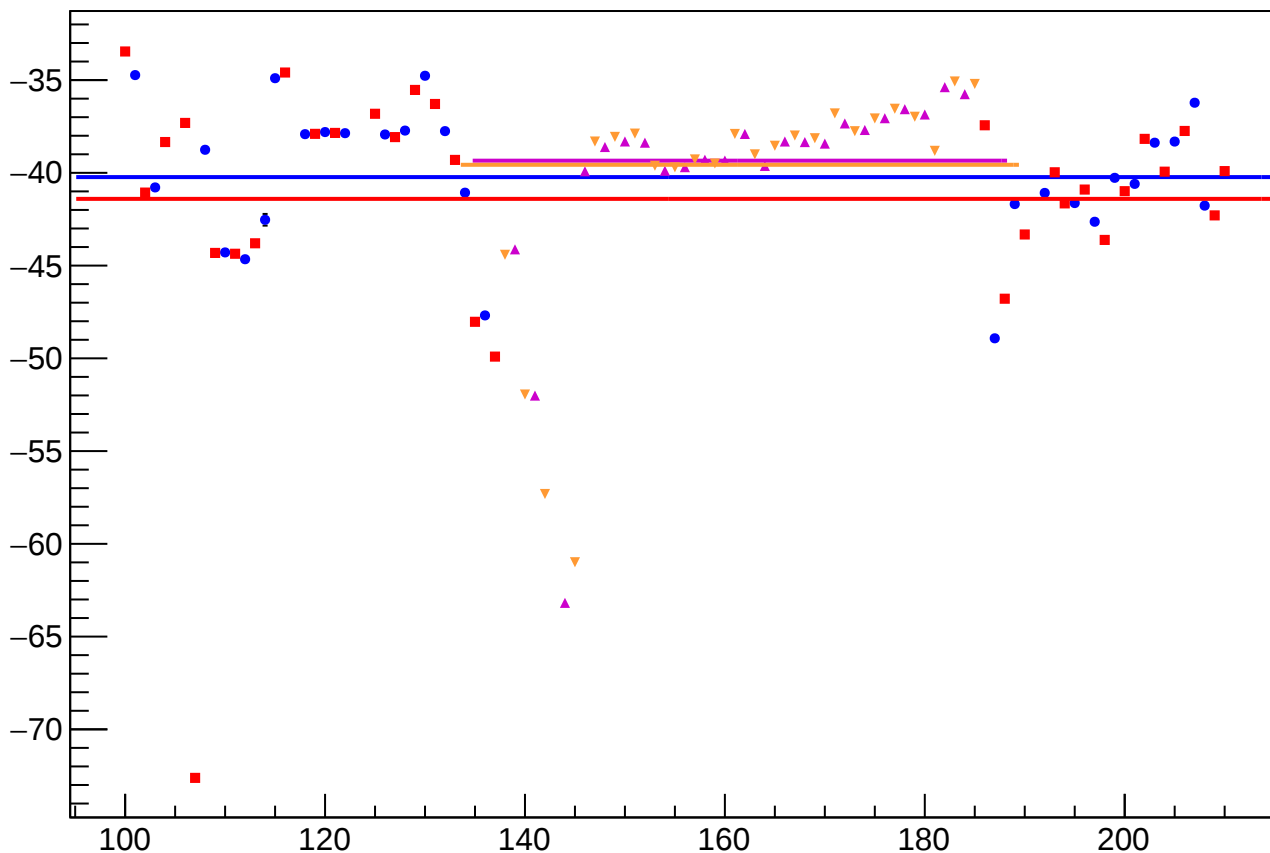
Right: 8.009 ± 0.314 χ^2/NDF : 1442.2/57

In: 15.209 ± 0.244 χ^2/NDF : 1651.0/49

Out: 14.701 ± 0.243 χ^2/NDF : 1889.9/54

All: 14.954 ± 0.172 χ^2/NDF : 3543.0/104

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.229 ± 0.022 χ^2/NDF : 29430.2/26

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.403 ± 0.022 χ^2/NDF : 68679.9/30

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

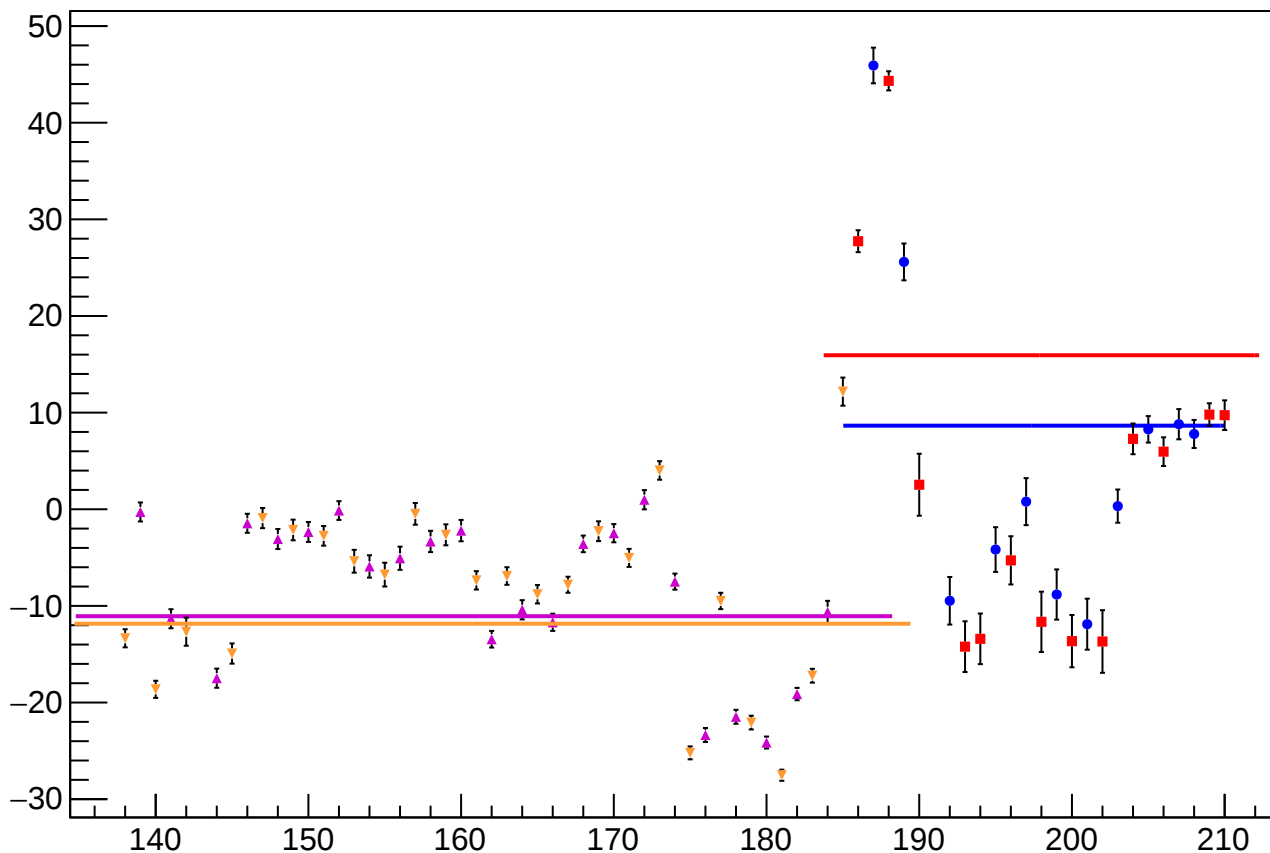
Right: -40.829 ± 0.015 χ^2/NDF : 99561.8/57

In: -39.588 ± 0.012 χ^2/NDF : 147215.7/49

Out: -40.097 ± 0.012 χ^2/NDF : 215048.0/54

All: -39.842 ± 0.008 χ^2/NDF : 363229.4/104

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



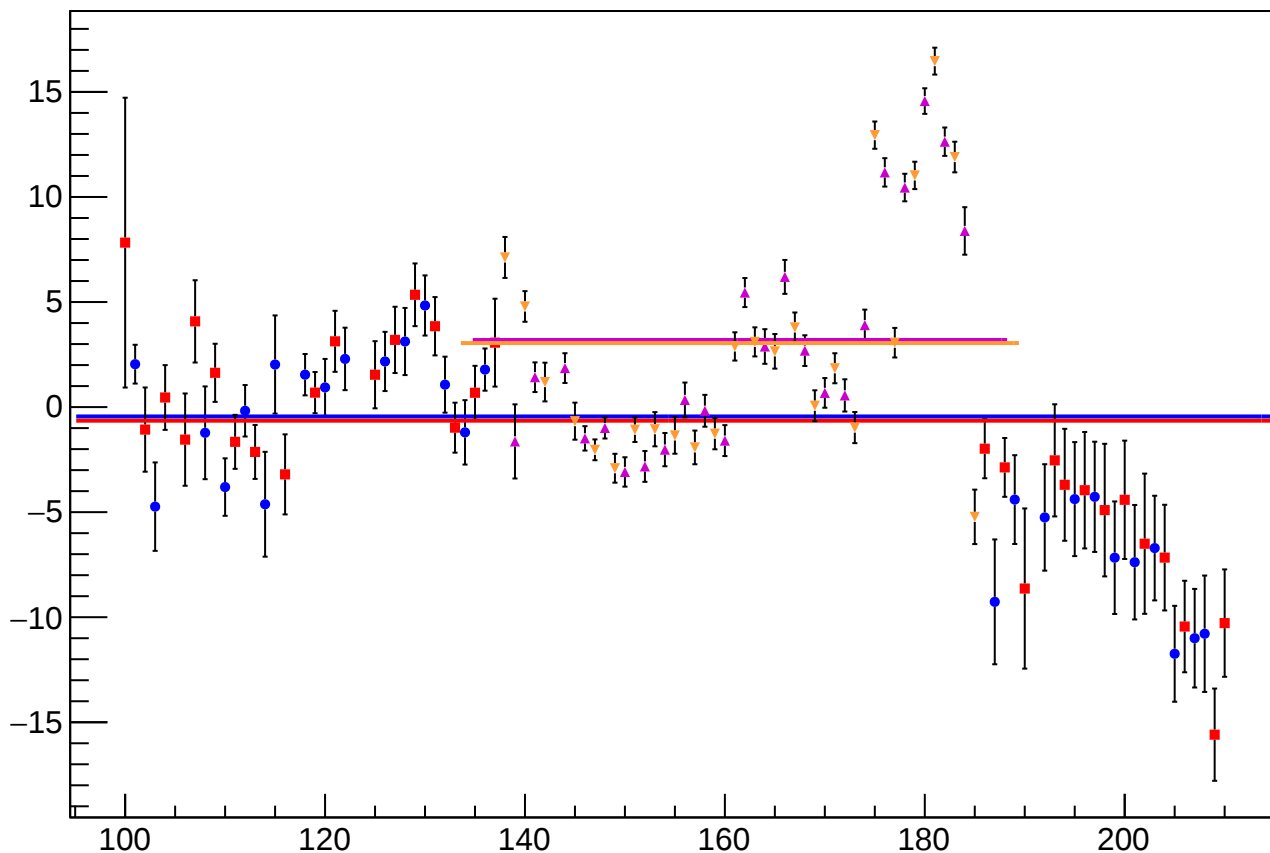
Right In: 8.650+/-0.565 χ^2/NDF : 712.1/10
 Left Out: -11.842+/-0.187 χ^2/NDF : 2739.8/23
 Right Out: 15.936+/-0.462 χ^2/NDF : 1677.9/12
 Left In: -11.067+/-0.188 χ^2/NDF : 2104.8/22

Left: -11.457+/-0.133 χ^2/NDF : 4853.2/46
 Right: 13.014+/-0.358 χ^2/NDF : 2489.7/23

In: -9.100+/-0.178 χ^2/NDF : 3914.6/33
 Out: -7.939+/-0.173 χ^2/NDF : 7524.8/36

All: -8.502+/-0.124 χ^2/NDF : 11461.2/70

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.446 ± 0.312 χ^2/NDF : 156.5/26

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.647 ± 0.308 χ^2/NDF : 167.2/30

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

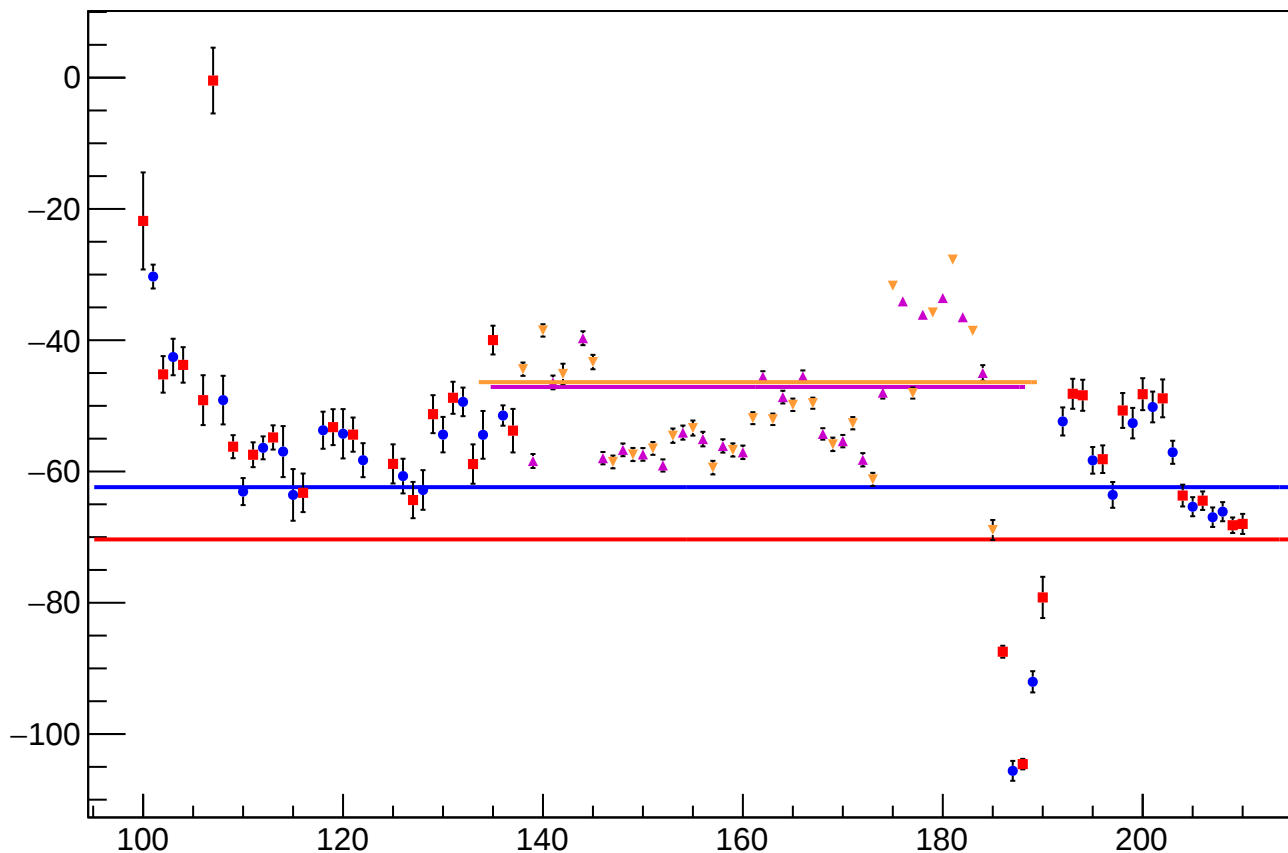
Right: -0.548 ± 0.219 χ^2/NDF : 323.9/57

In: 2.512 ± 0.135 χ^2/NDF : 1561.9/49

Out: 2.356 ± 0.133 χ^2/NDF : 1741.2/54

All: 2.433 ± 0.095 χ^2/NDF : 3303.8/104

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.387 ± 0.400 χ^2/NDF : 1754.5/26

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.351 ± 0.342 χ^2/NDF : 3732.5/30

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

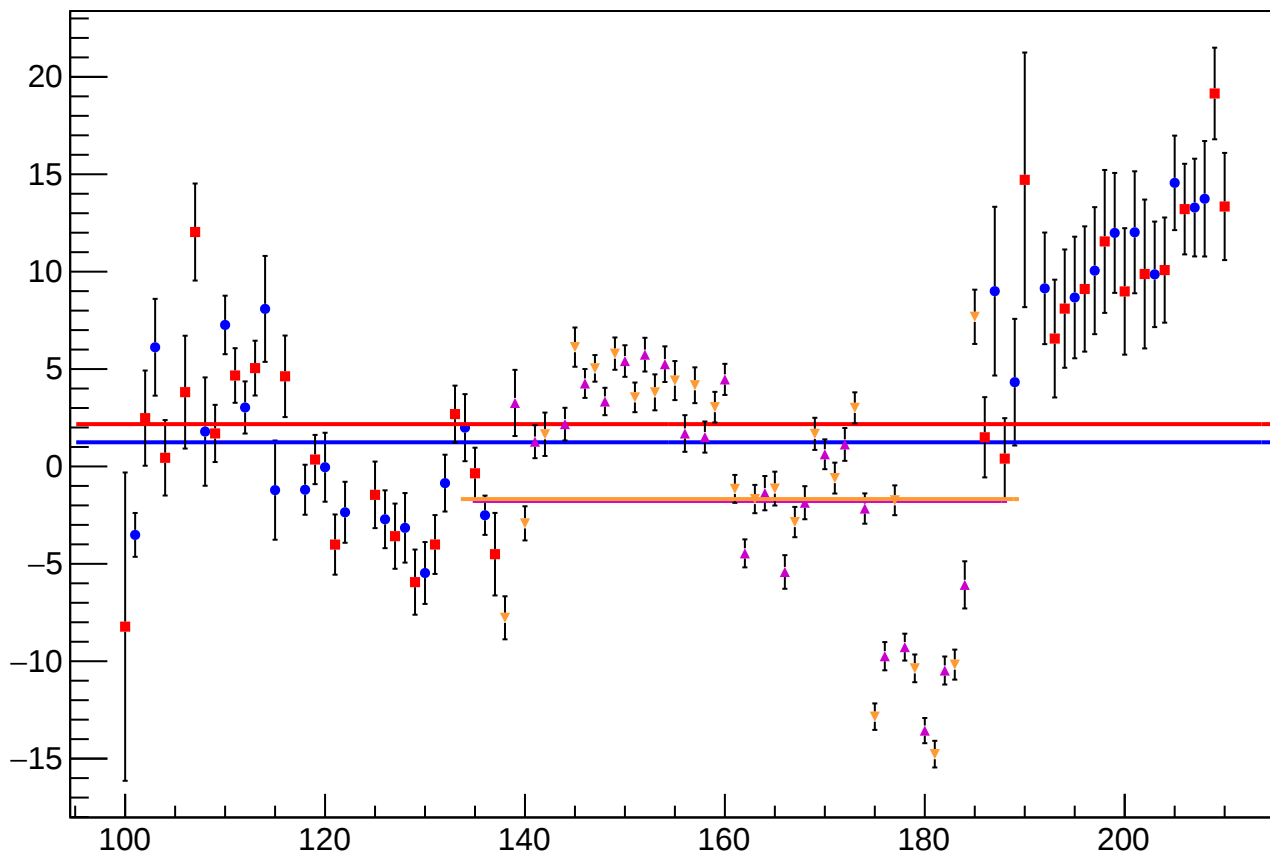
Right: -66.980 ± 0.260 χ^2/NDF : 5716.1/57

In: -49.874 ± 0.170 χ^2/NDF : 5466.7/49

Out: -51.880 ± 0.164 χ^2/NDF : 10796.7/54

All: -50.911 ± 0.118 χ^2/NDF : 16335.8/104

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.240 ± 0.356 χ^2/NDF : 233.2/26

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 2.172 ± 0.355 χ^2/NDF : 245.6/30

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

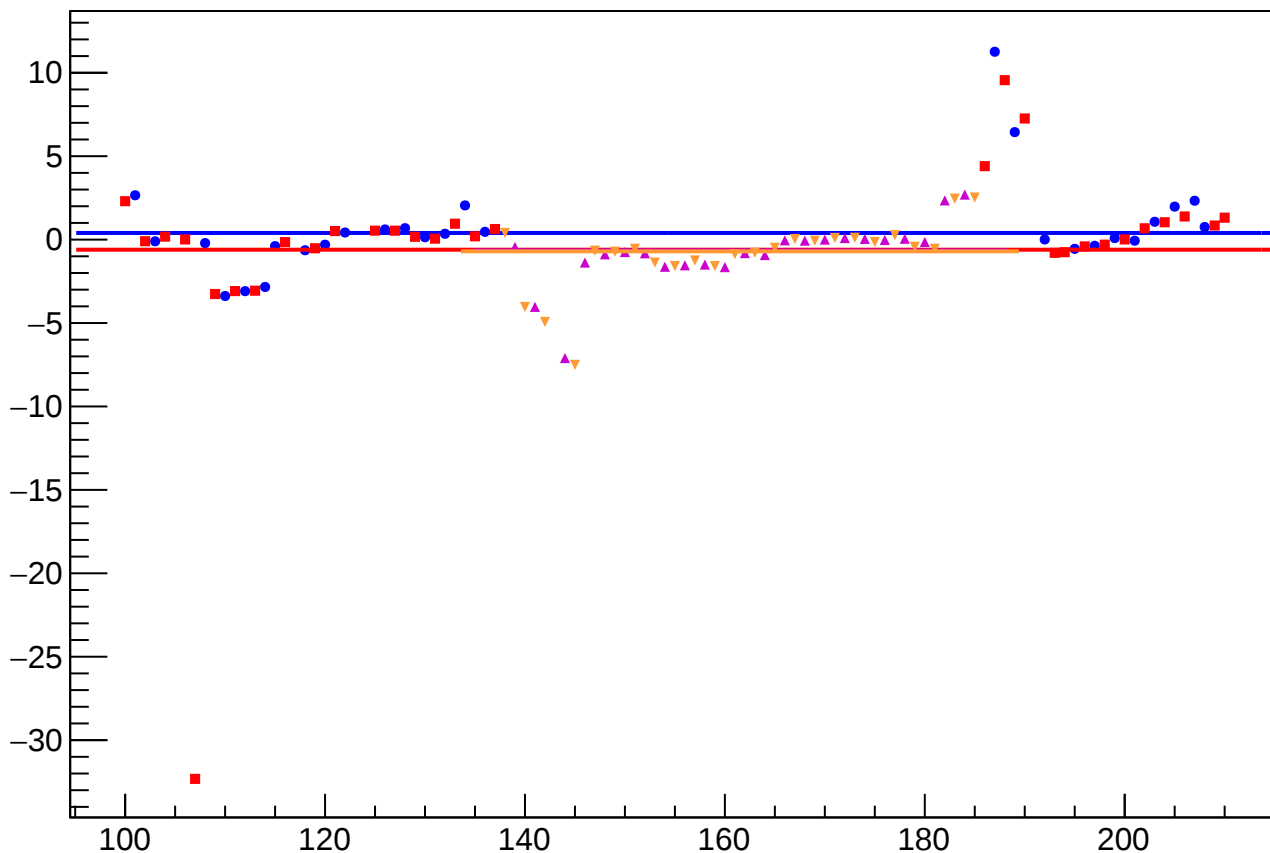
Right: 1.706 ± 0.251 χ^2/NDF : 482.2/57

In: -1.217 ± 0.153 χ^2/NDF : 1543.0/49

Out: -0.979 ± 0.151 χ^2/NDF : 1825.4/54

All: -1.096 ± 0.107 χ^2/NDF : 3369.6/104

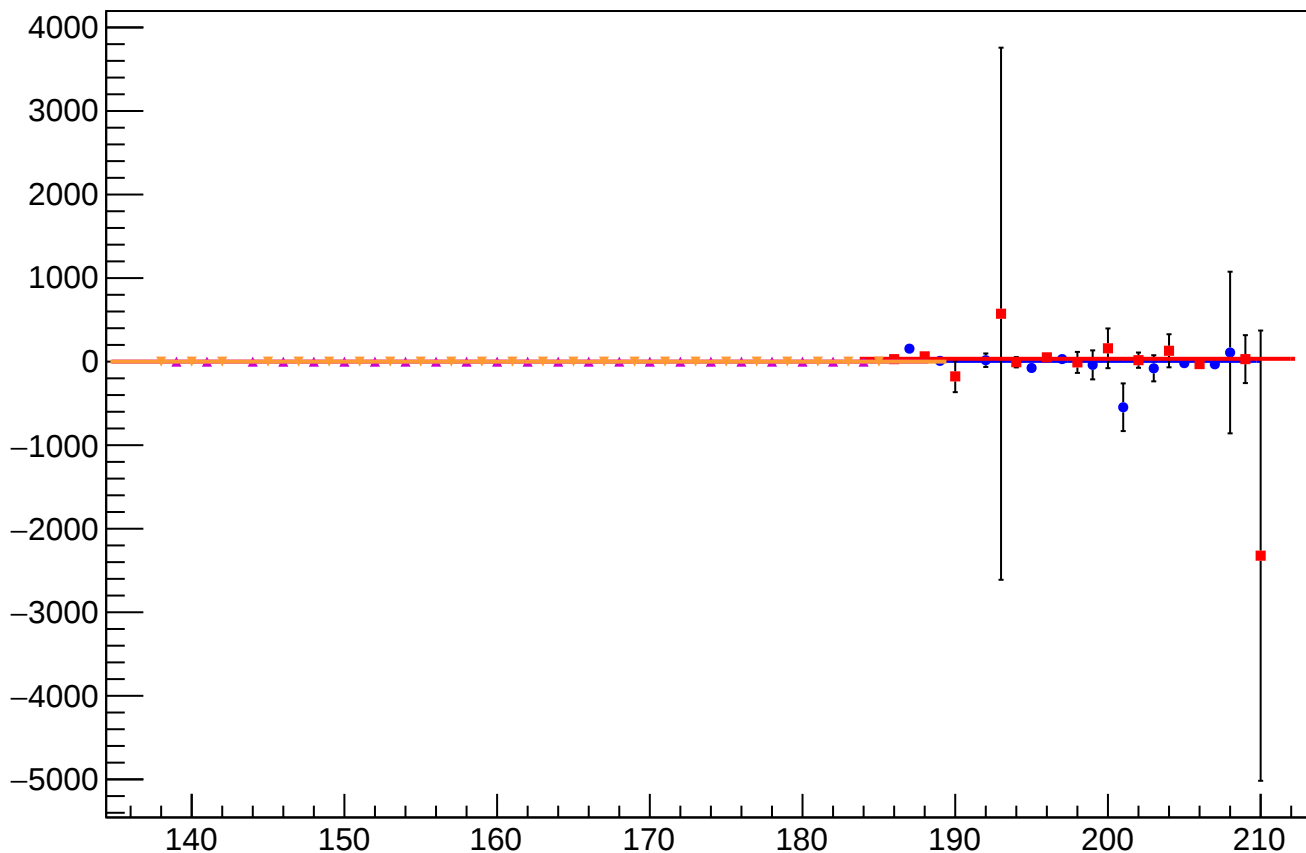
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.399 ± 0.018 $\chi^2/\text{NDF}: 9957.3/26$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.605 ± 0.018 $\chi^2/\text{NDF}: 93792.8/30$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$
 Right: -0.111 ± 0.013 $\chi^2/\text{NDF}: 105350.4/57$
 In: -0.482 ± 0.007 $\chi^2/\text{NDF}: 57000.4/49$
 Out: -0.686 ± 0.007 $\chi^2/\text{NDF}: 147653.1/54$
 All: -0.585 ± 0.005 $\chi^2/\text{NDF}: 205077.2/104$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.021 ± 15.215 χ^2/NDF : 19.4/10

Left Out: -0.037 ± 0.018 χ^2/NDF : 35.4/23

Right Out: 33.957 ± 9.671 χ^2/NDF : 7.3/12

Left In: -0.010 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.024 ± 0.013 χ^2/NDF : 71.7/46

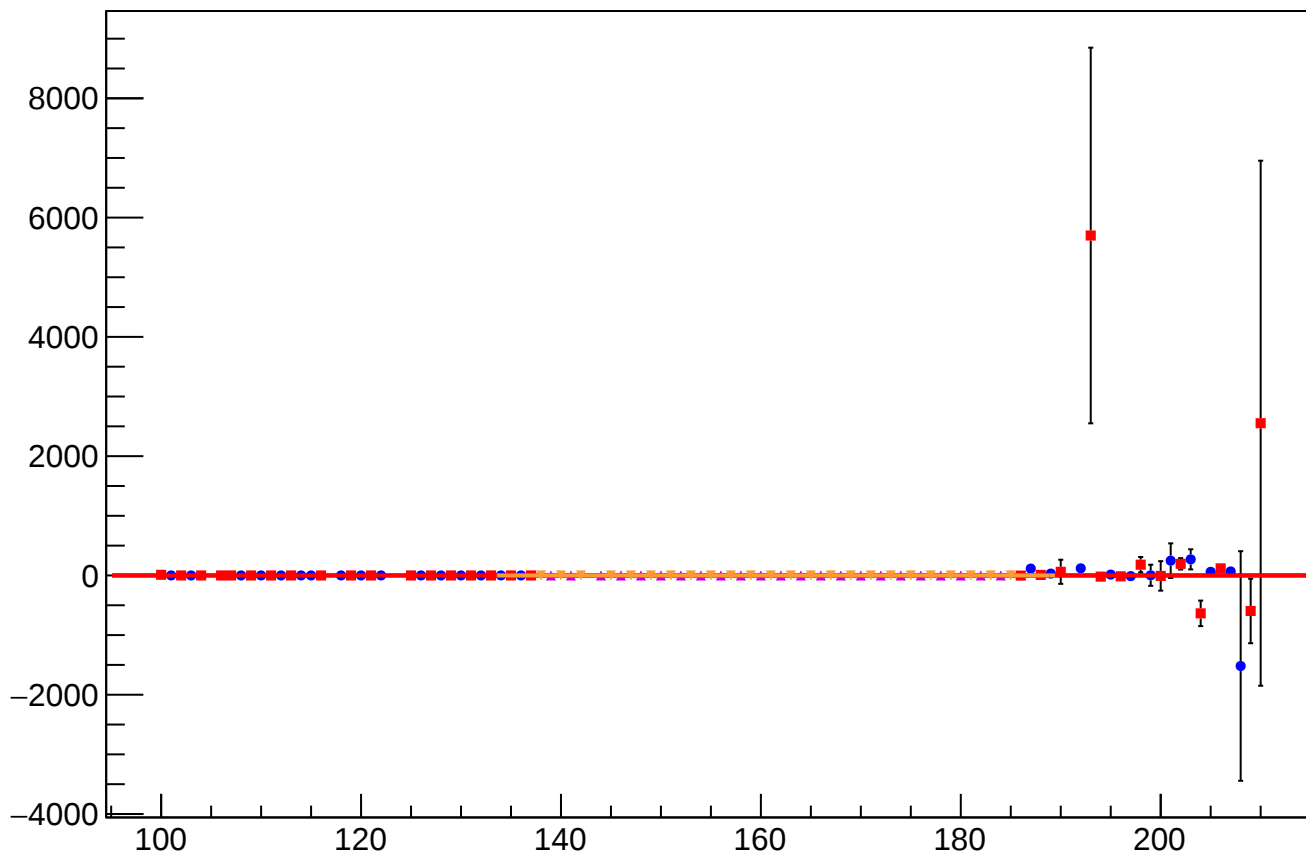
Right: 26.781 ± 8.162 χ^2/NDF : 28.6/23

In: -0.010 ± 0.018 χ^2/NDF : 54.9/33

Out: -0.037 ± 0.018 χ^2/NDF : 55.1/36

All: -0.024 ± 0.013 χ^2/NDF : 111.1/70

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 24.1/26$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 36.3/30$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

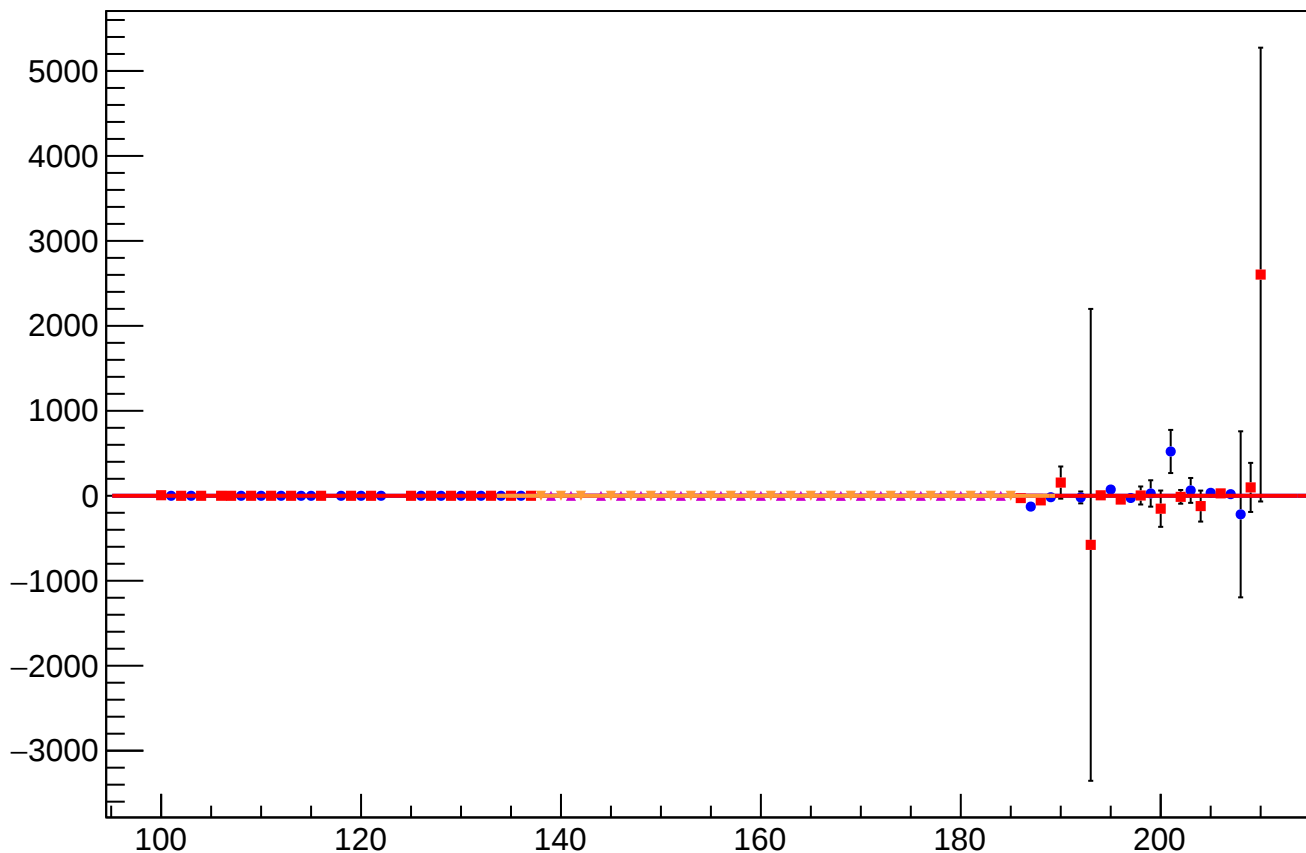
Right: -0.048 ± 0.017 $\chi^2/\text{NDF}: 65.2/57$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 68.6/49$

Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 64.4/54$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 135.3/104$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 30.2/26

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 31.7/30

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

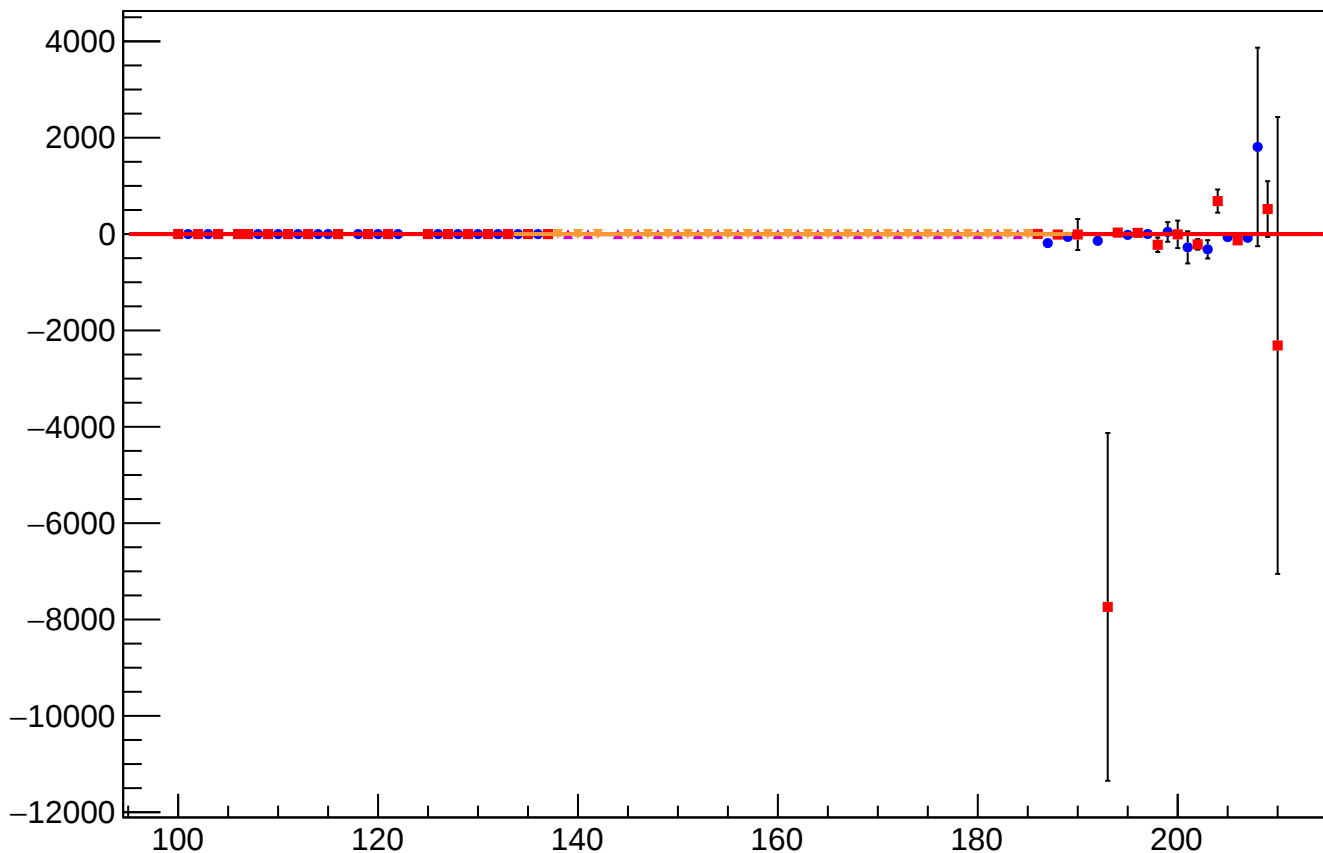
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 62.0/57

In: -0.005 $\pm$ 0.017 χ^2 /NDF:67.3/49

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:63.9/54

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 134.1/104

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 25.5/26

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 31.8/30

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

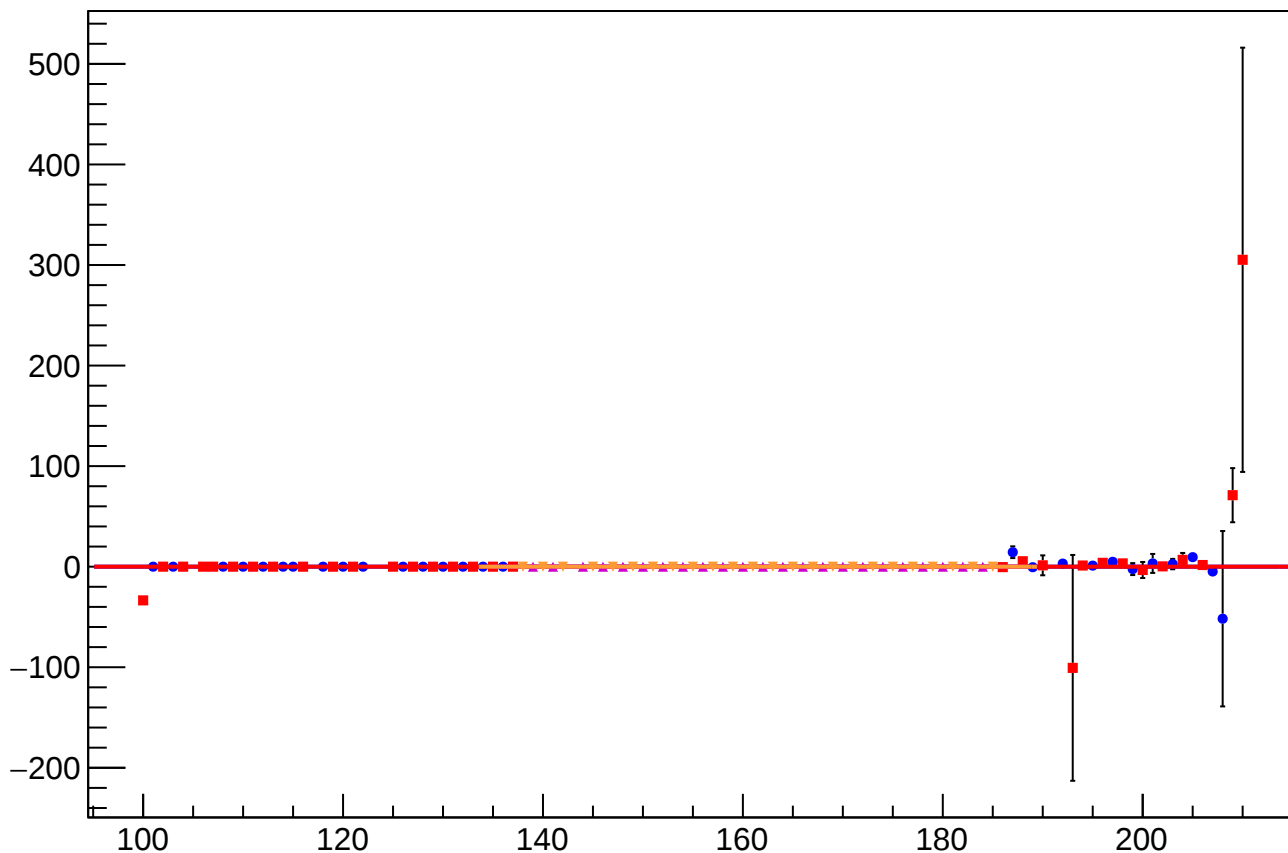
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 63.3/57

In: 0.053 $\pm$ 0.014 χ^2 /NDF:74.1/49

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:59.8/54

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 137.4/104

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001 χ^2 /NDF: 46.6/26

Left Out: 0.000 $\pm$ 0.001 χ^2 /NDF:23.6/23

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 26530.6/30

Left In: 0.000 $\pm$ 0.001 χ^2 /NDF:22.3/22

Left: 0.000 $\pm$ 0.001 χ^2 /NDF: 45.9/46

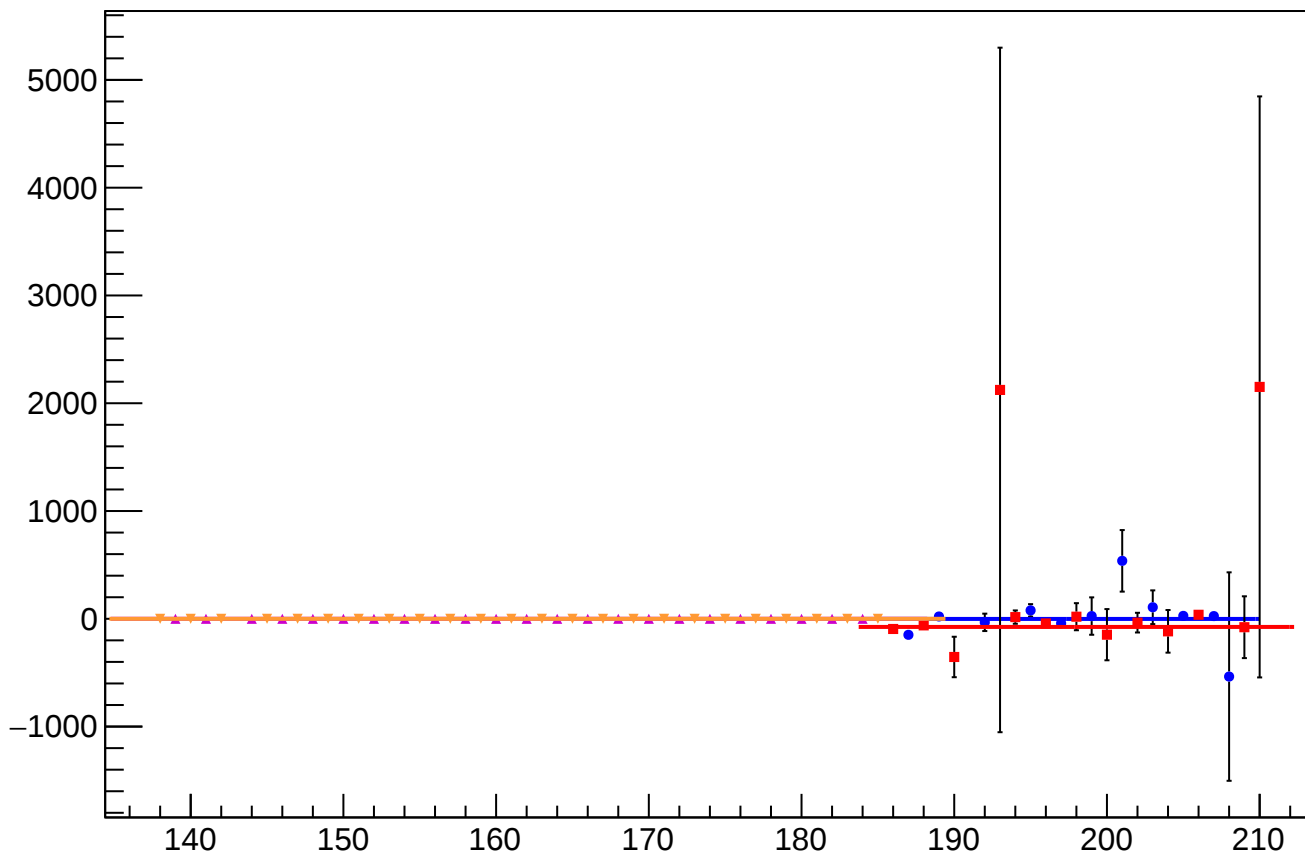
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 26577.3/57

In: -0.001 $\pm$ 0.001 χ^2 /NDF:80.6/49

Out: -0.001 $\pm$ 0.001 χ^2 /NDF:26569.3/54

All: -0.001 $\pm$ 0.000 χ^2 /NDF: 26650.0/104

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.222 ± 15.210 $\chi^2/\text{NDF}: 20.2/10$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.530 ± 9.673 $\chi^2/\text{NDF}: 16.0/12$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

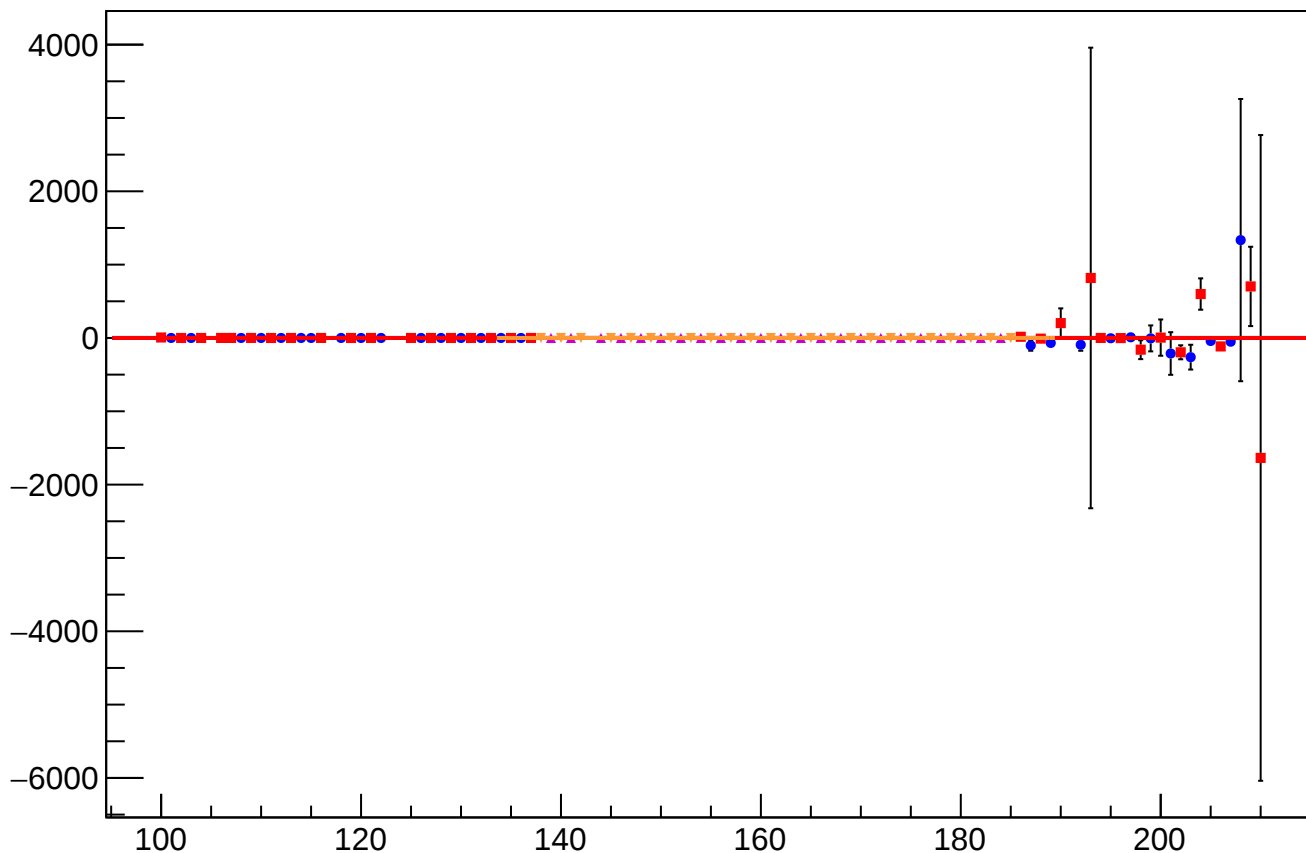
Right: -54.131 ± 8.163 $\chi^2/\text{NDF}: 53.1/23$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 55.3/33$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 114.2/36$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 172.4/70$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 ± 0.023 $\chi^2/\text{NDF}: 37.7/26$

Left Out: -0.011 ± 0.014 $\chi^2/\text{NDF}: 29.6/23$

Right Out: 0.037 ± 0.025 $\chi^2/\text{NDF}: 49.5/30$

Left In: 0.005 ± 0.014 $\chi^2/\text{NDF}: 49.6/22$

Left: -0.003 ± 0.010 $\chi^2/\text{NDF}: 79.7/46$

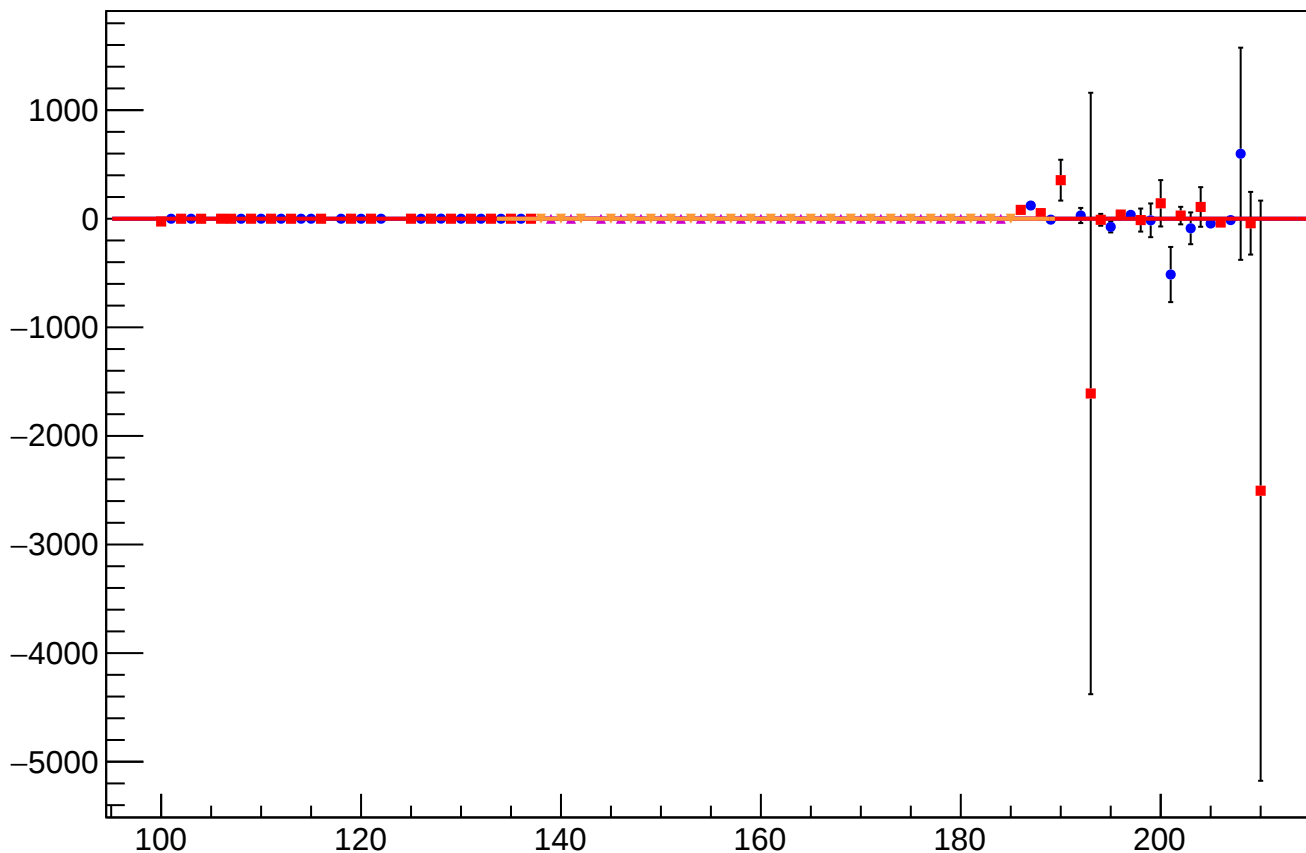
Right: 0.021 ± 0.017 $\chi^2/\text{NDF}: 88.0/57$

In: 0.006 ± 0.012 $\chi^2/\text{NDF}: 87.3/49$

Out: 0.001 ± 0.012 $\chi^2/\text{NDF}: 81.9/54$

All: 0.003 ± 0.009 $\chi^2/\text{NDF}: 169.3/104$

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.6/26

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 109.5/30

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

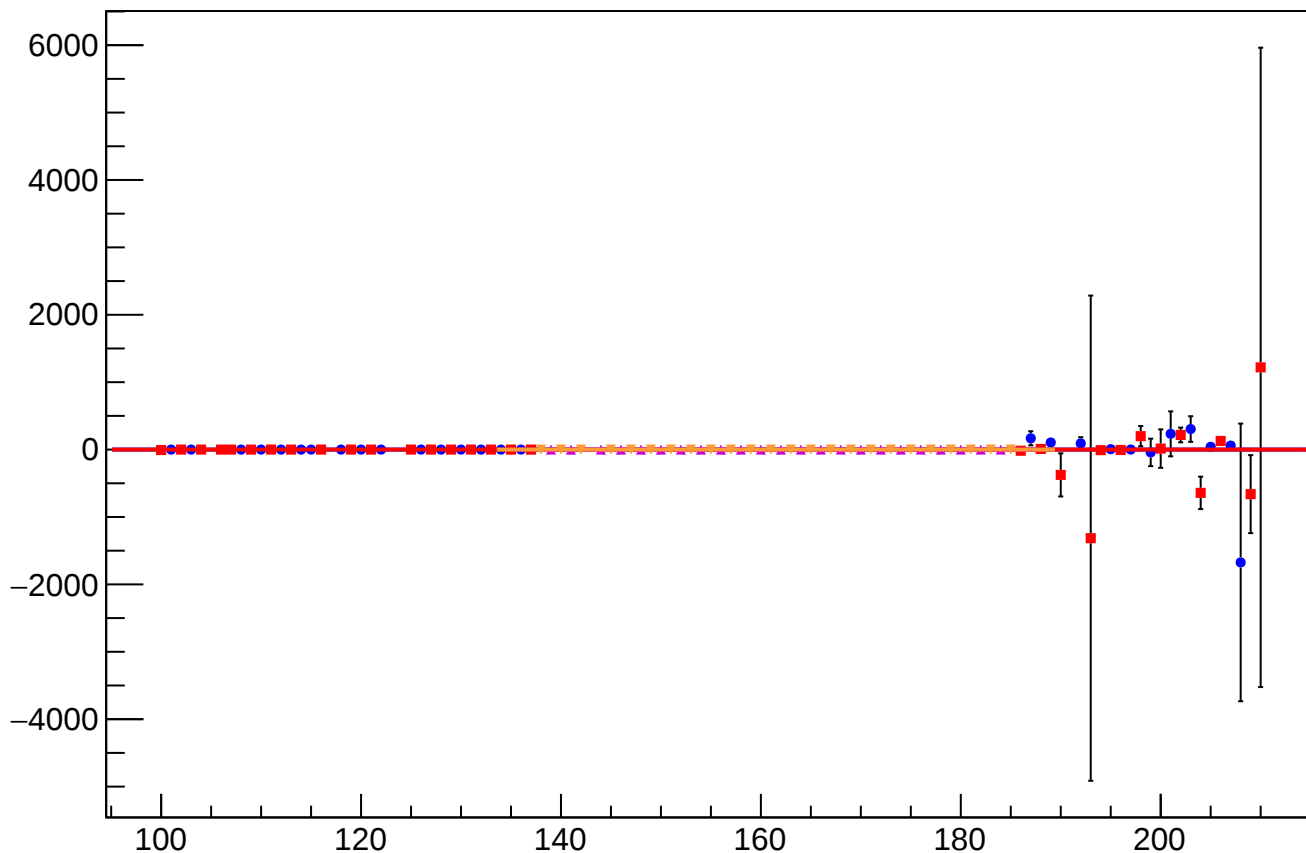
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 160.5/57

In: 0.040 $\pm$ 0.017 χ^2 /NDF:95.0/49

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:154.4/54

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 250.8/104

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 37.5/26

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 46.0/30

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

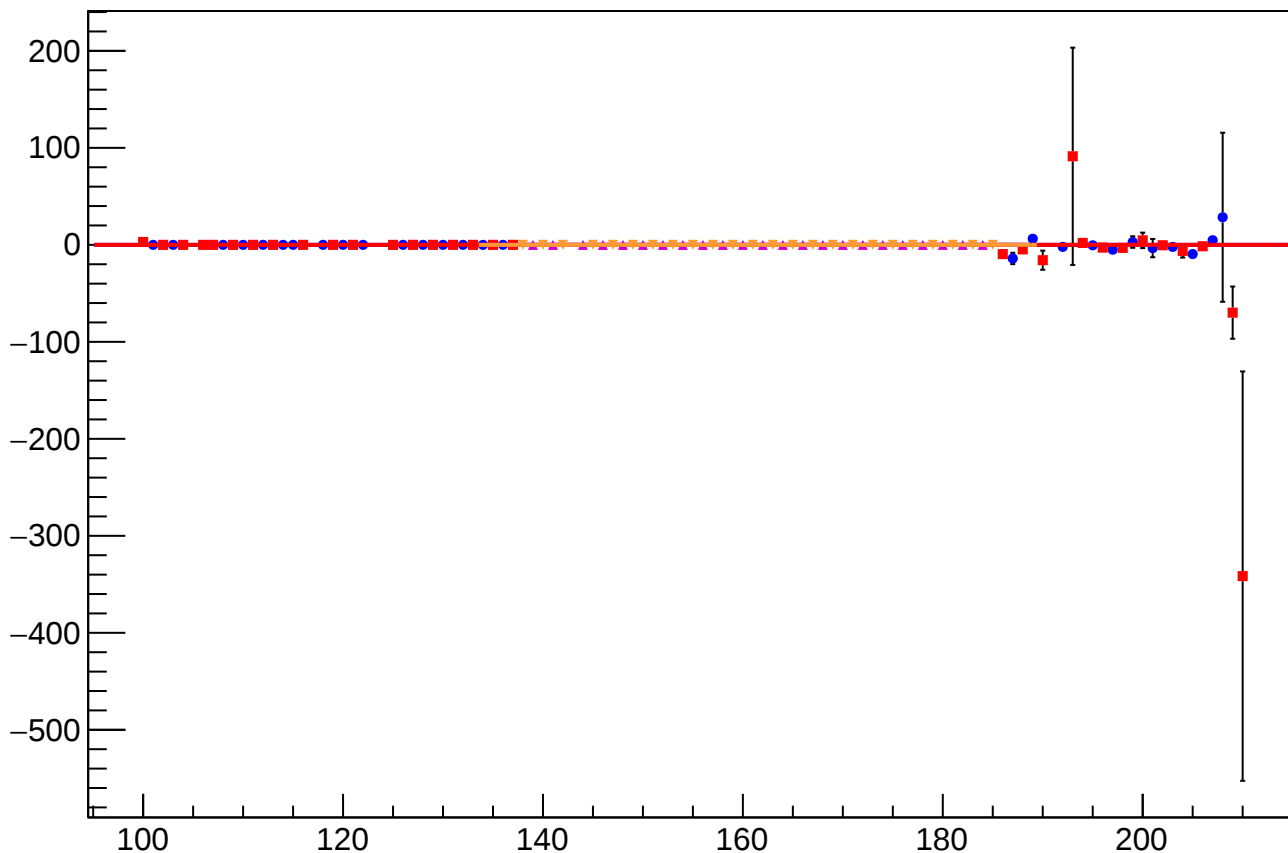
Right: -0.027 ± 0.020 χ^2/NDF : 84.3/57

In: 0.002 ± 0.014 χ^2/NDF : 87.9/49

Out: 0.005 ± 0.014 χ^2/NDF : 83.6/54

All: 0.004 ± 0.010 χ^2/NDF : 171.5/104

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 57.7/26

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 224.2/30

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

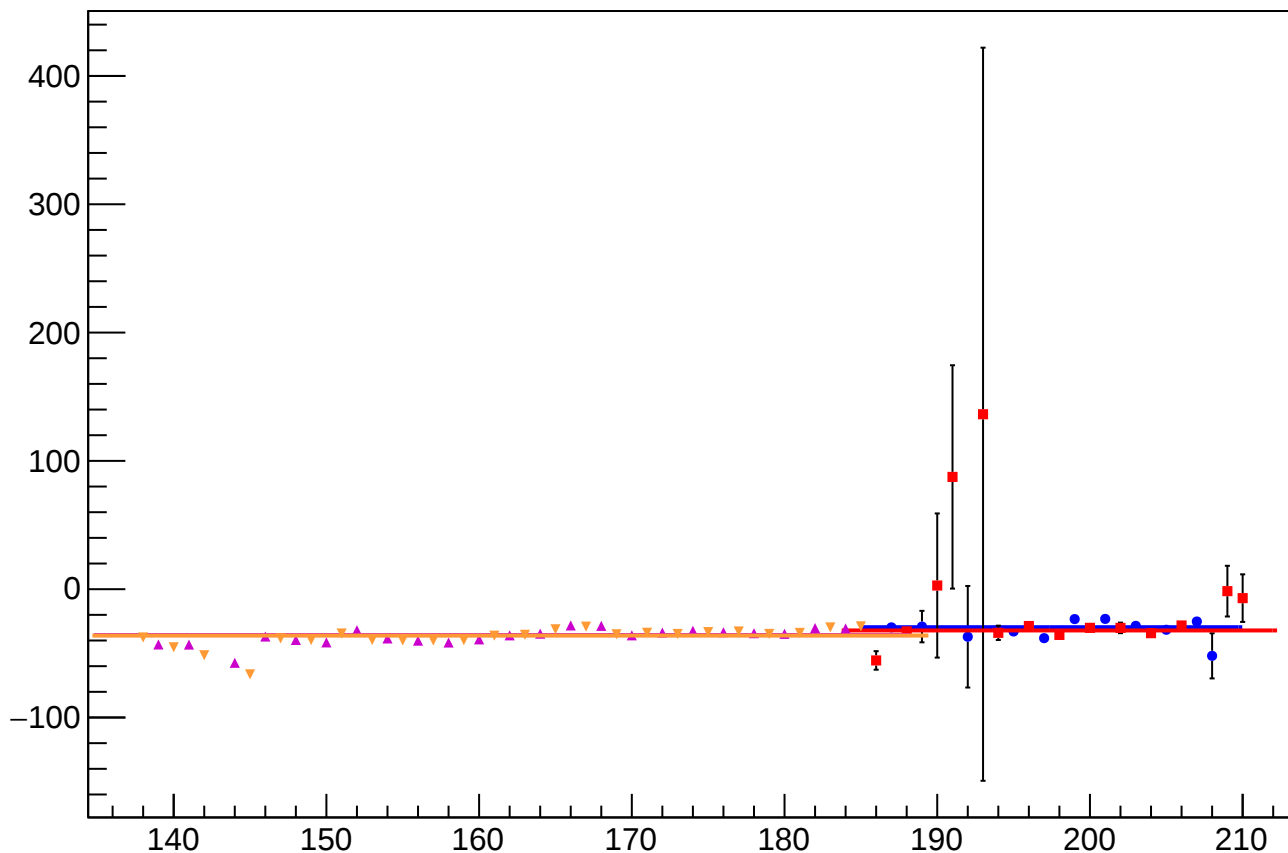
Right: -0.006 ± 0.001 χ^2/NDF : 282.0/57

In: -0.008 ± 0.001 χ^2/NDF : 97.5/49

Out: -0.008 ± 0.001 χ^2/NDF : 258.3/54

All: -0.008 ± 0.000 χ^2/NDF : 356.0/104

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.629 ± 0.858 χ^2/NDF : 25.7/10

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.155 ± 0.807 χ^2/NDF : 25.0/13

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

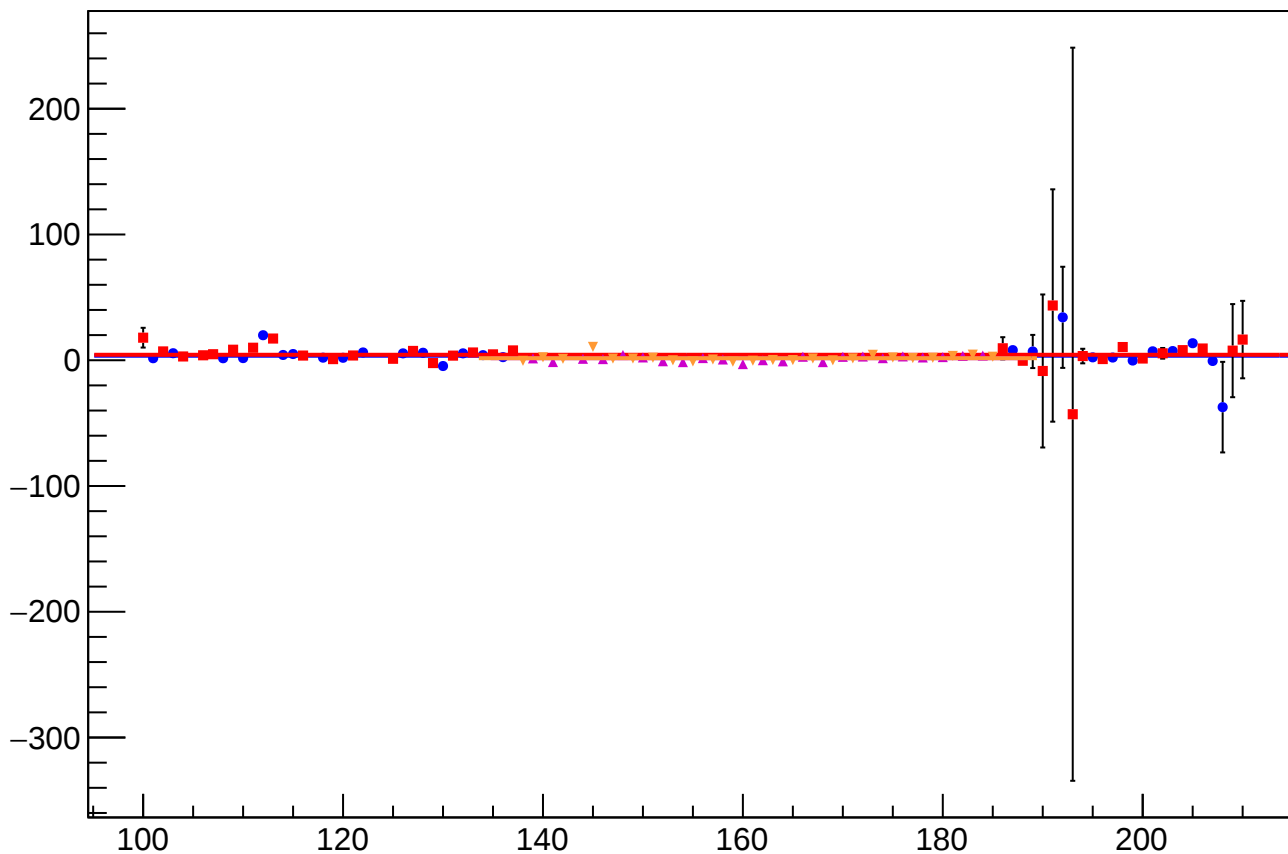
Right: -30.969 ± 0.588 χ^2/NDF : 55.3/24

In: -35.488 ± 0.187 χ^2/NDF : 928.7/33

Out: -35.908 ± 0.187 χ^2/NDF : 1162.8/37

All: -35.698 ± 0.132 χ^2/NDF : 2094.0/71

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.600 $\pm$ 0.217 χ^2 /NDF: 458.2/26

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.349 $\pm$ 0.221 χ^2 /NDF: 369.1/31

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

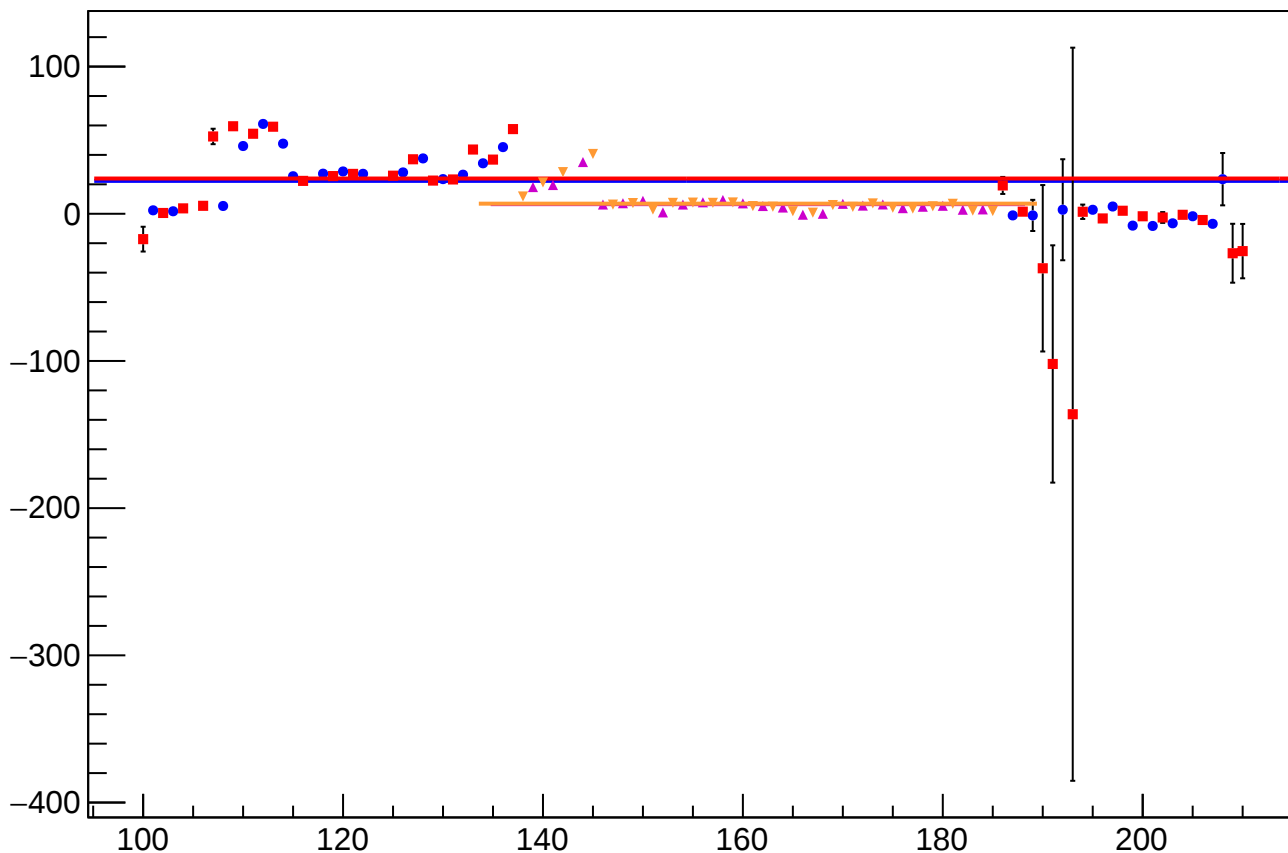
Right: 3.968 $\pm$ 0.155 χ^2 /NDF: 833.2/58

In: 2.273 $\pm$ 0.123 χ^2 /NDF:676.7/49

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:640.2/55

All: 2.374 $\pm$ 0.087 χ^2 /NDF: 1318.3/105

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.348 $\pm$ 0.370 χ^2 /NDF: 2806.1/26

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.946 $\pm$ 0.362 χ^2 /NDF: 3297.2/31

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

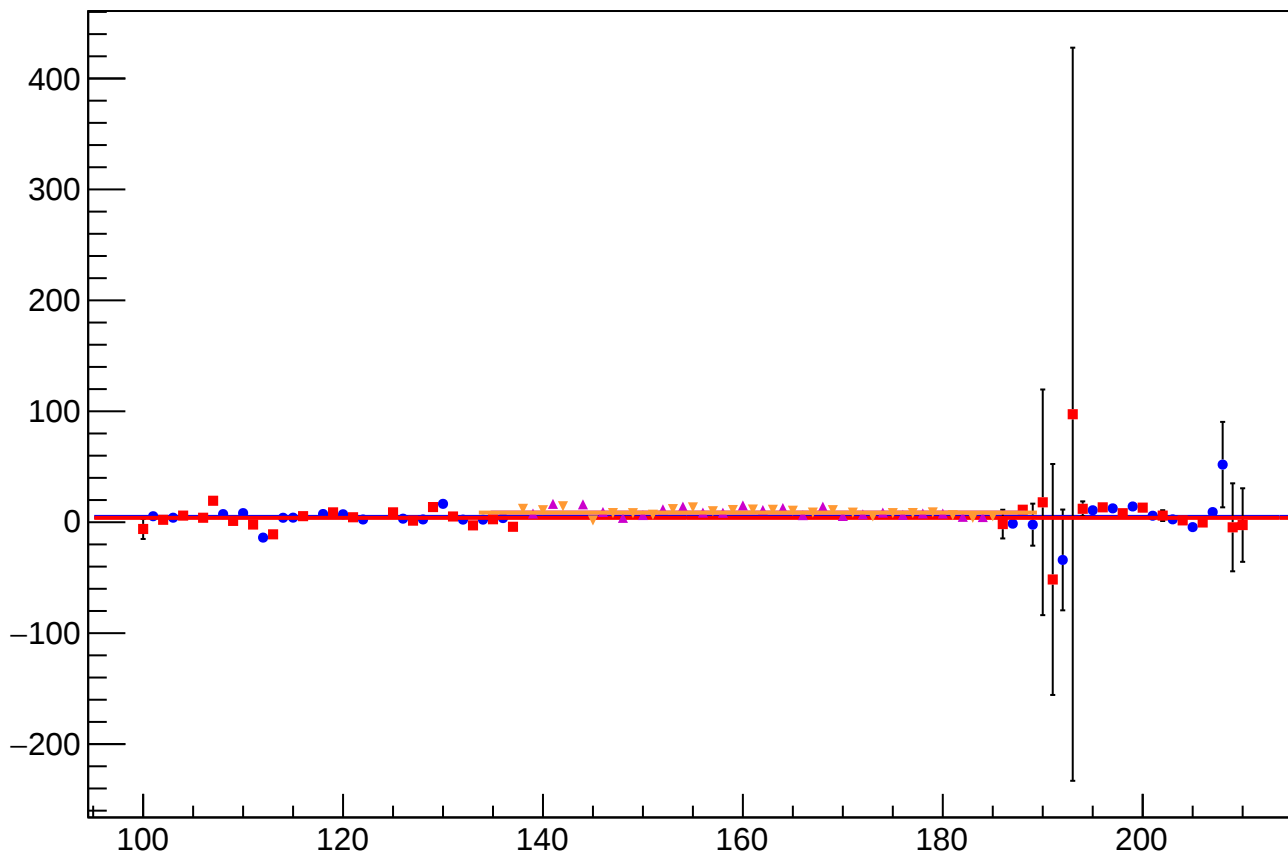
Right: 23.165 $\pm$ 0.259 χ^2 /NDF: 6112.9/58

In: 9.847 $\pm$ 0.169 χ^2 /NDF:5275.2/49

Out: 10.602 $\pm$ 0.169 χ^2 /NDF:6334.8/55

All: 10.224 $\pm$ 0.120 χ^2 /NDF: 11620.0/105

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.807 $\pm$ 0.250 χ^2 /NDF: 572.7/26

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.937 $\pm$ 0.254 χ^2 /NDF: 589.2/31

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

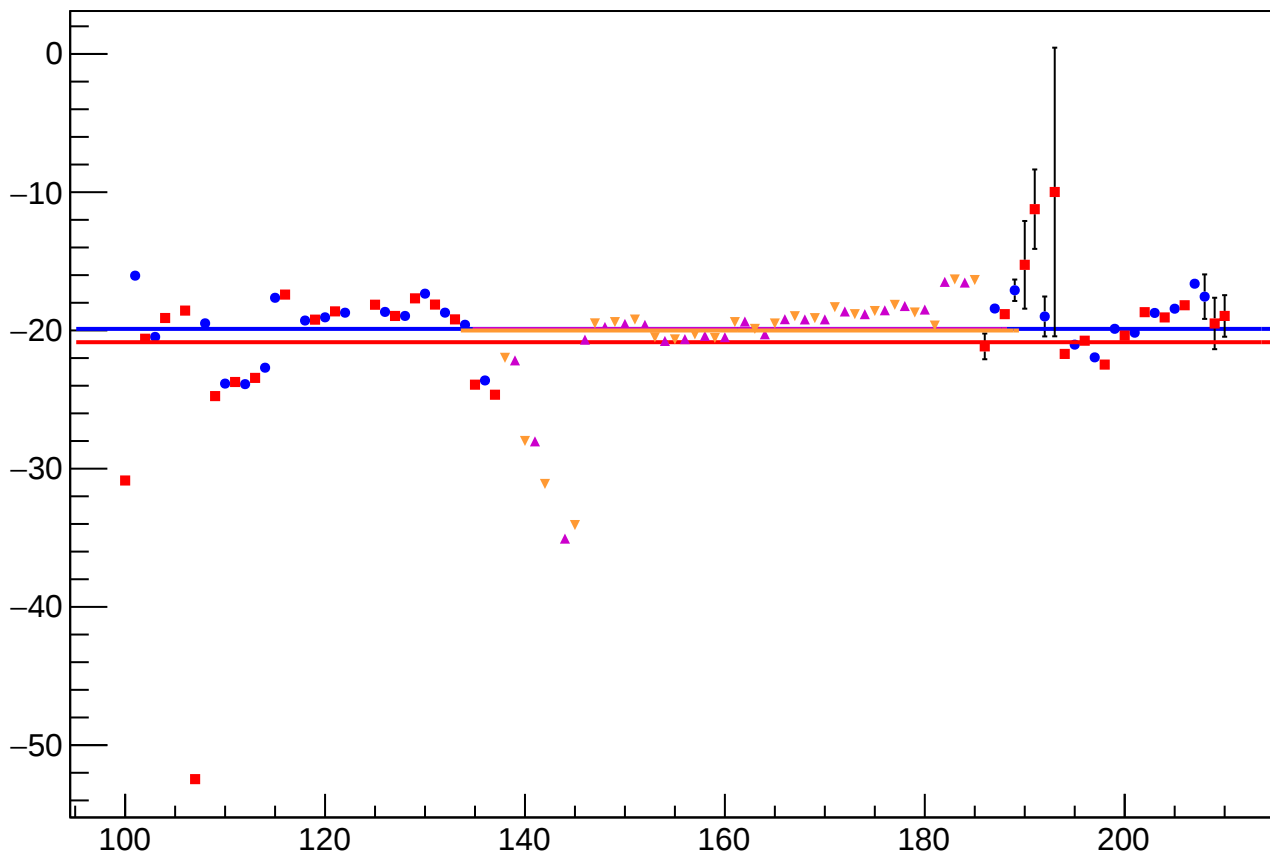
Right: 4.379 $\pm$ 0.178 χ^2 /NDF: 1167.8/58

In: 7.446 $\pm$ 0.141 χ^2 /NDF:1172.4/49

Out: 7.237 $\pm$ 0.141 χ^2 /NDF:1073.0/55

All: 7.342 $\pm$ 0.099 χ^2 /NDF: 2246.5/105

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 $\pm$ 0.015 χ^2 /NDF: 27143.1/26

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF:171763.9/23

Right Out: -20.852 $\pm$ 0.015 χ^2 /NDF: 95240.3/31

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF:144191.9/22

Left: -19.951 $\pm$ 0.006 χ^2 /NDF: 316049.4/46

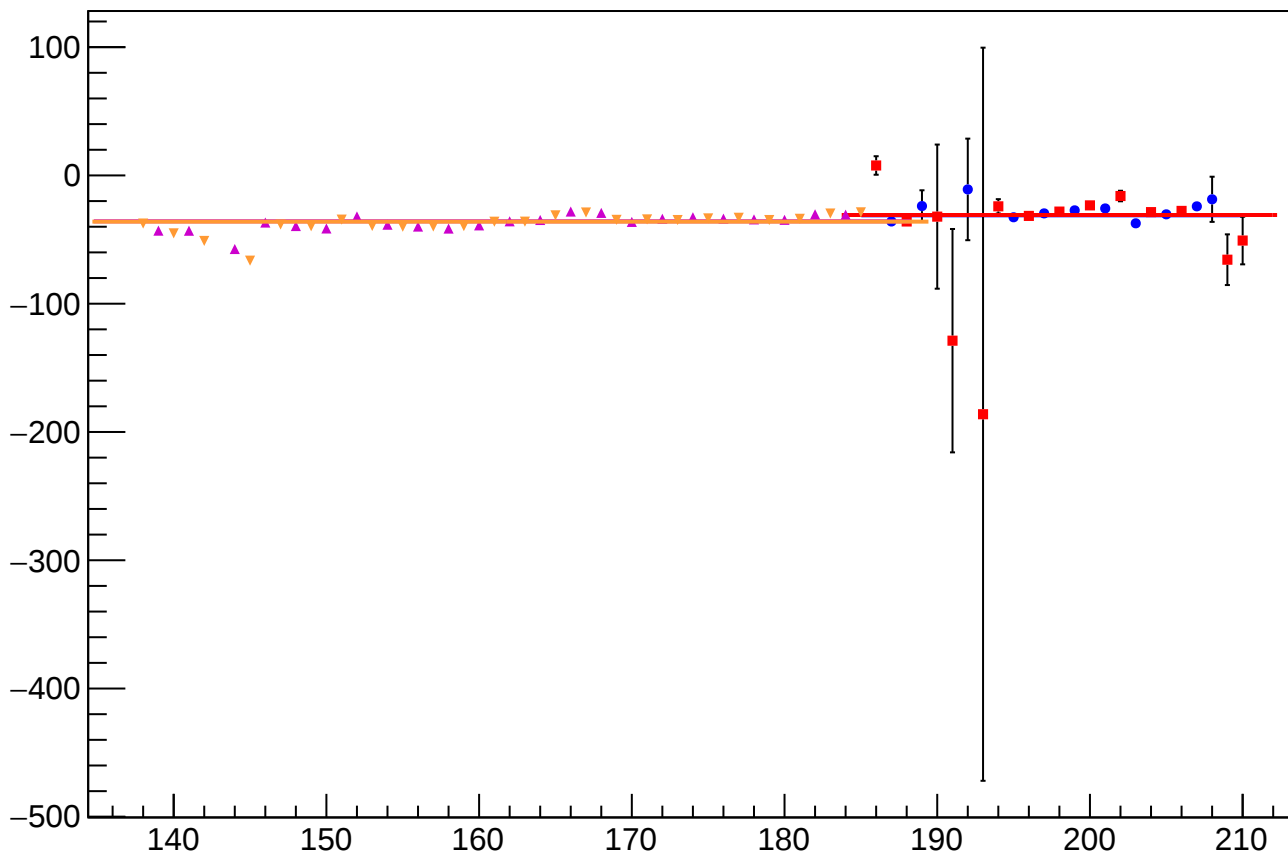
Right: -20.367 $\pm$ 0.011 χ^2 /NDF: 124471.8/58

In: -19.896 $\pm$ 0.007 χ^2 /NDF:171335.3/49

Out: -20.190 $\pm$ 0.007 χ^2 /NDF:269512.3/55

All: -20.042 $\pm$ 0.005 χ^2 /NDF: 441742.2/105

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.090 ± 0.861 $\chi^2/\text{NDF}: 28.0/10$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -30.852 ± 0.809 $\chi^2/\text{NDF}: 76.2/13$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

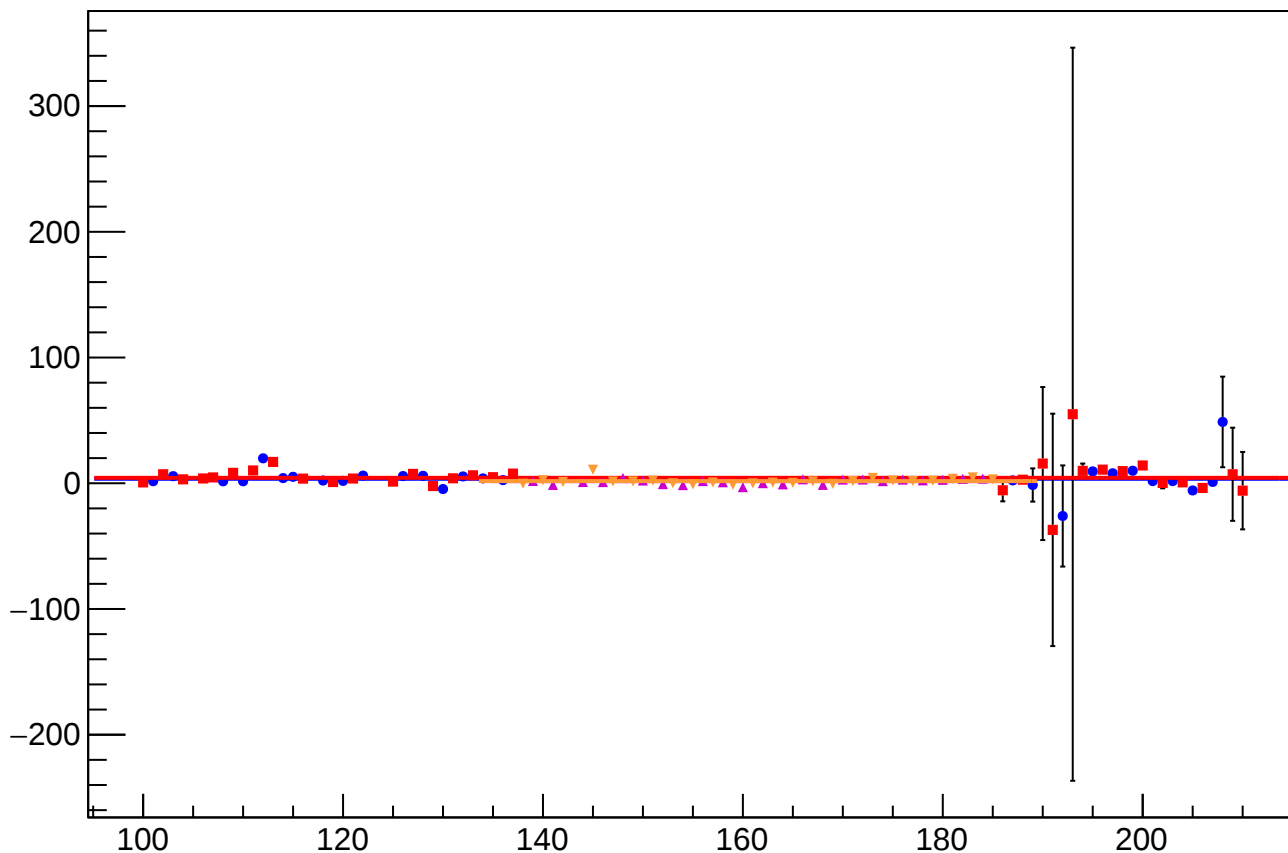
Right: -30.964 ± 0.590 $\chi^2/\text{NDF}: 104.3/24$

In: -35.546 ± 0.187 $\chi^2/\text{NDF}: 898.7/33$

Out: -35.755 ± 0.187 $\chi^2/\text{NDF}: 1236.3/37$

All: -35.651 ± 0.132 $\chi^2/\text{NDF}: 2135.6/71$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.570 $\pm$ 0.217 χ^2 /NDF: 457.6/26

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.321 $\pm$ 0.217 χ^2 /NDF: 378.4/31

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

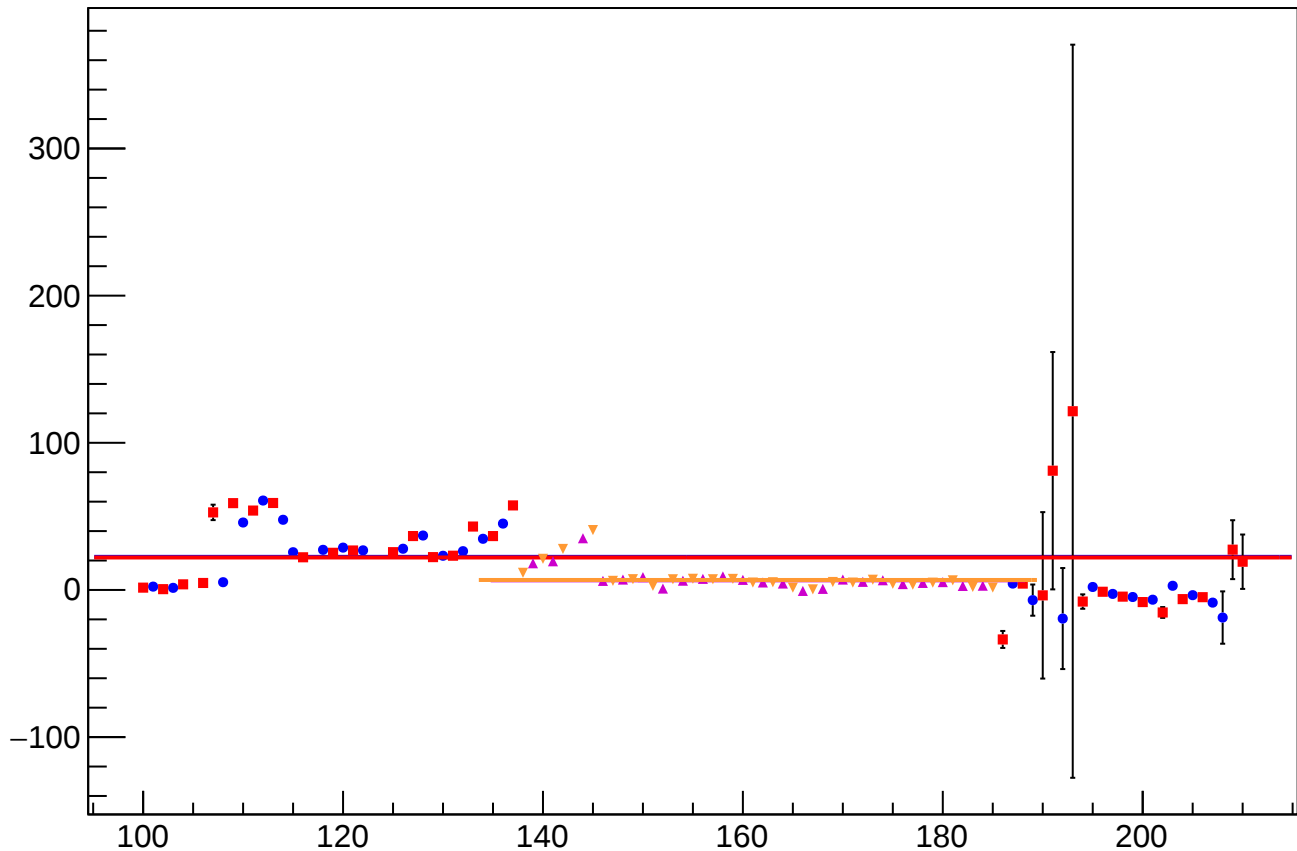
Right: 3.944 $\pm$ 0.153 χ^2 /NDF: 841.9/58

In: 2.306 $\pm$ 0.123 χ^2 /NDF:670.8/49

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:644.4/55

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1317.1/105

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.493+/-0.370 χ^2 /NDF: 2699.6/26

Left Out: 6.779+/-0.191 χ^2 /NDF:1297.7/23

Right Out: 22.063+/-0.349 χ^2 /NDF: 3659.3/31

Left In: 6.532+/-0.190 χ^2 /NDF:1018.2/22

Left: 6.655+/-0.135 χ^2 /NDF: 2316.7/46

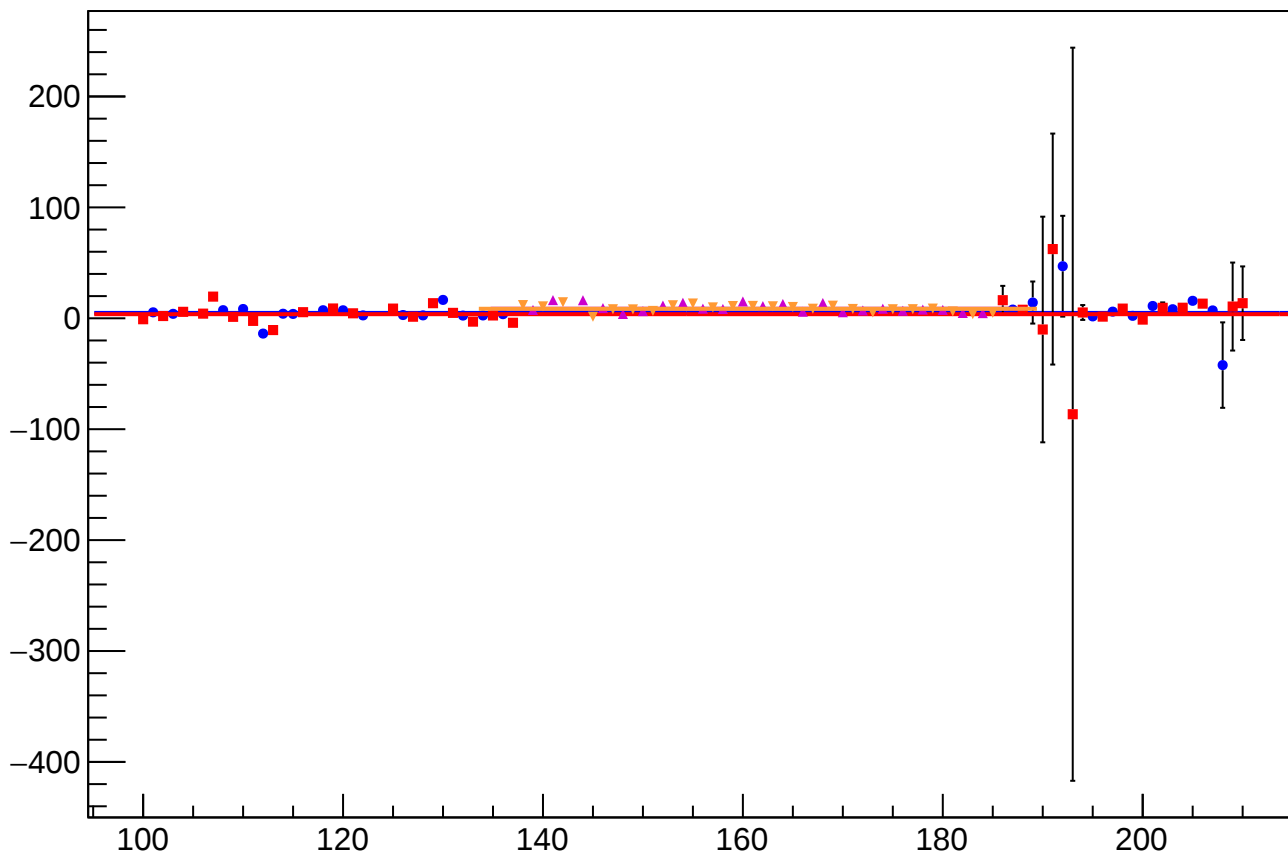
Right: 22.266+/-0.254 χ^2 /NDF: 6359.6/58

In: 9.870+/-0.169 χ^2 /NDF:5189.2/49

Out: 10.311+/-0.168 χ^2 /NDF:6432.1/55

All: 10.092+/-0.119 χ^2 /NDF: 11624.8/105

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.845 $\pm$ 0.250 χ^2 /NDF: 560.4/26

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.698 $\pm$ 0.250 χ^2 /NDF: 589.1/31

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

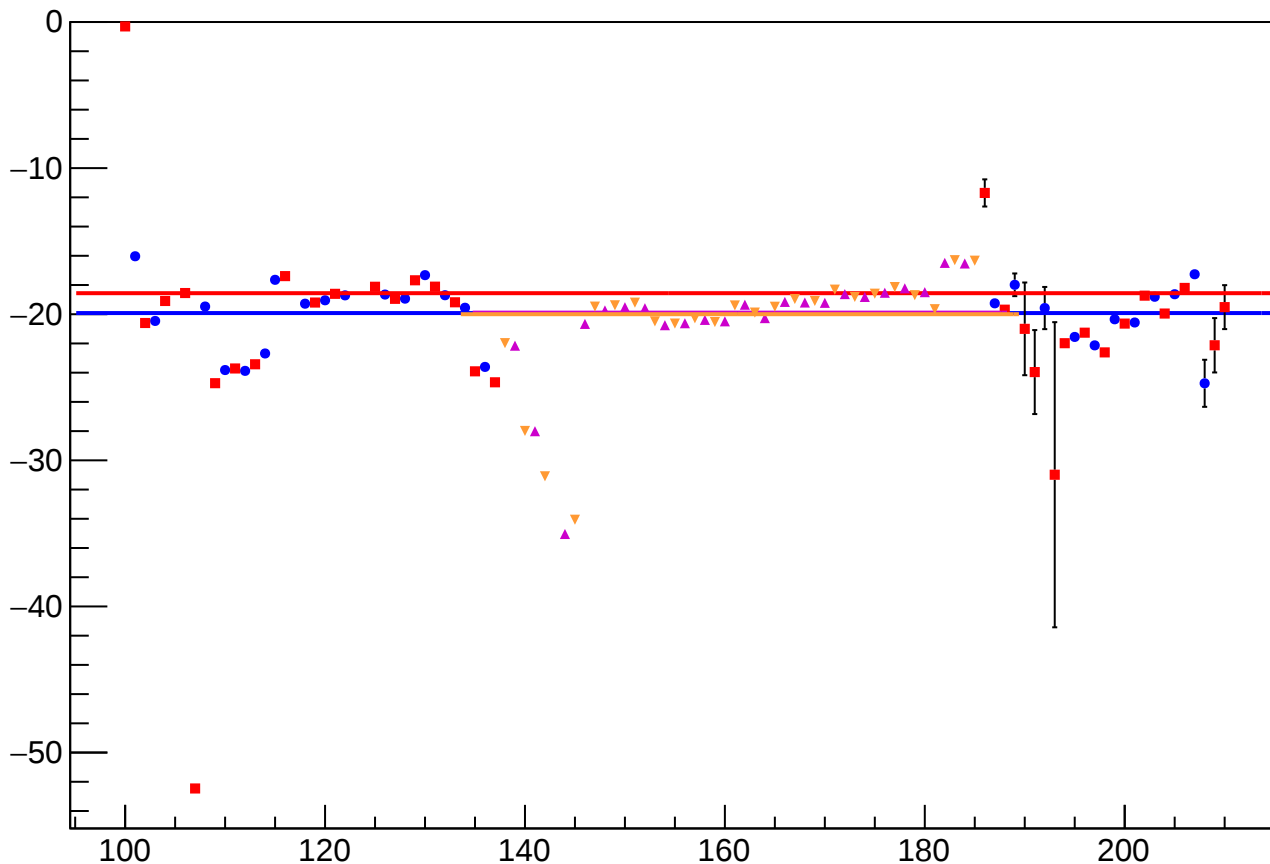
Right: 4.272 $\pm$ 0.177 χ^2 /NDF: 1160.0/58

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1155.3/49

Out: 7.055 $\pm$ 0.140 χ^2 /NDF:1096.7/55

All: 7.227 $\pm$ 0.099 χ^2 /NDF: 2255.1/105

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 $\pm$ 0.015 χ^2 /NDF: 27097.2/26

Left Out: -19.998 $\pm$ 0.008 χ^2 /NDF: 171944.6/23

Right Out: -18.559 $\pm$ 0.014 χ^2 /NDF: 303728.2/31

Left In: -19.890 $\pm$ 0.008 χ^2 /NDF: 144055.2/22

Left: -19.944 $\pm$ 0.006 χ^2 /NDF: 316093.4/46

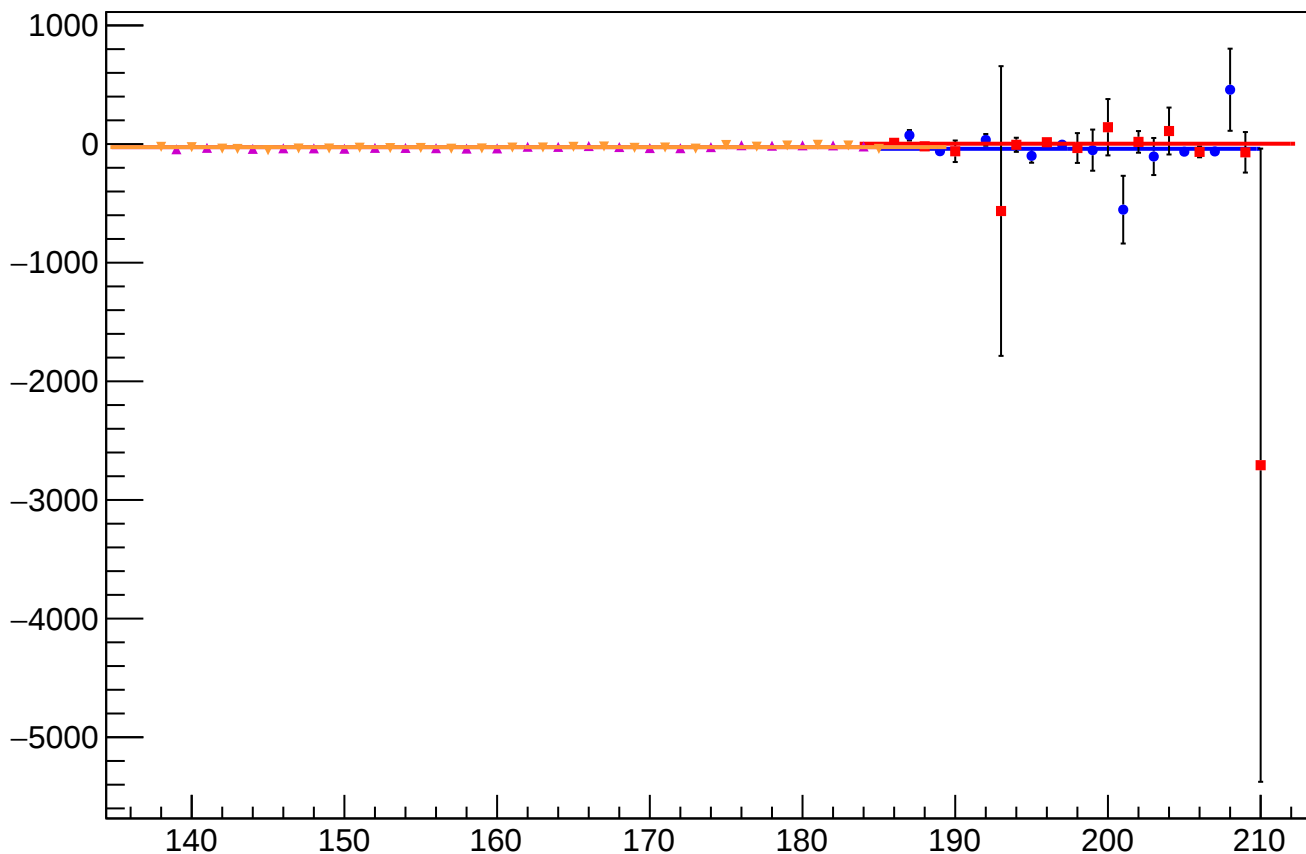
Right: -19.205 $\pm$ 0.010 χ^2 /NDF: 335245.5/58

In: -19.897 $\pm$ 0.007 χ^2 /NDF: 171155.5/49

Out: -19.655 $\pm$ 0.007 χ^2 /NDF: 483603.9/55

All: -19.775 $\pm$ 0.005 χ^2 /NDF: 655373.2/105

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.998 ± 13.050 χ^2/NDF : 18.0/10

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 2.772 ± 8.111 χ^2/NDF : 6.8/12

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

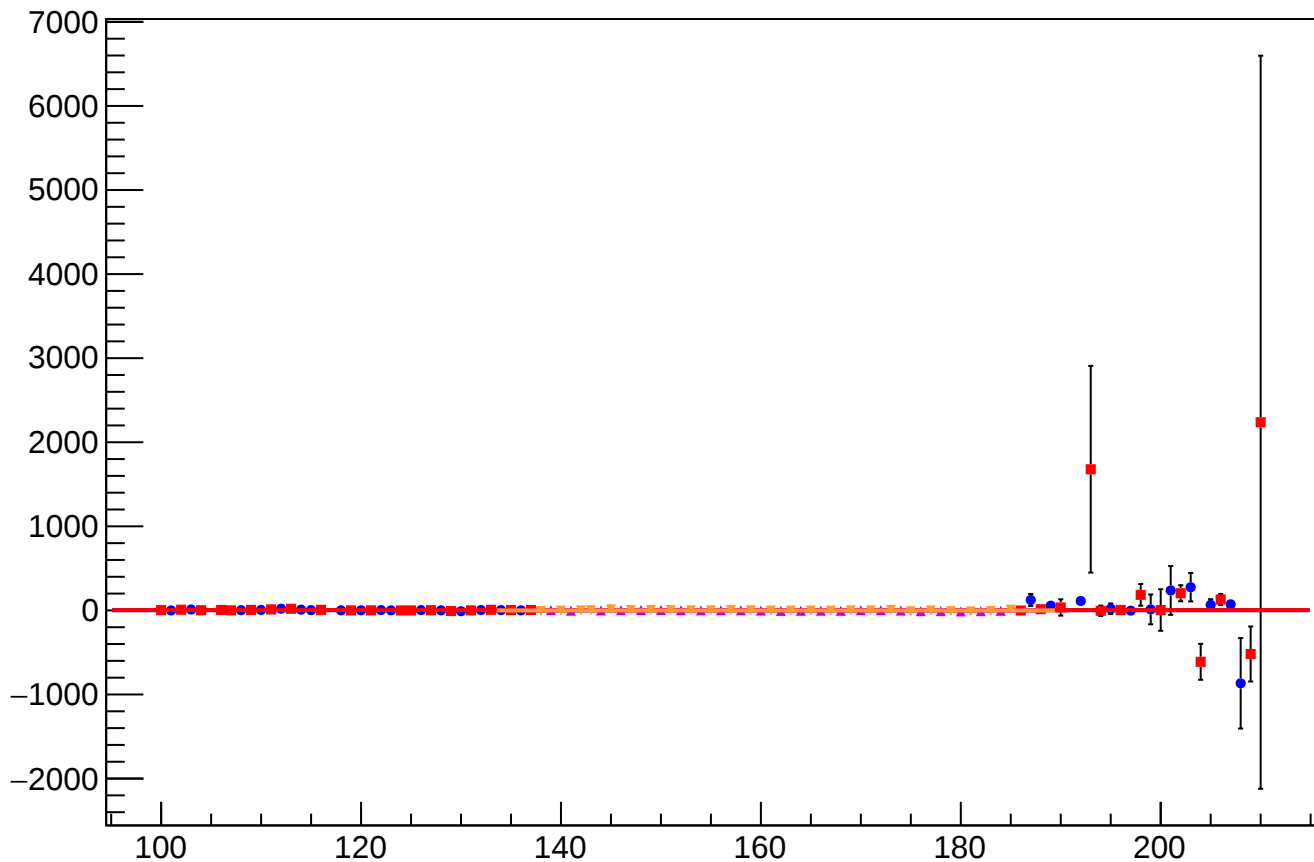
Right: -9.147 ± 6.889 χ^2/NDF : 32.6/23

In: -26.055 ± 0.195 χ^2/NDF : 3298.7/33

Out: -25.868 ± 0.192 χ^2/NDF : 4177.3/37

All: -25.960 ± 0.137 χ^2/NDF : 7476.4/71

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476+/-0.315 χ^2/NDF : 316.2/27

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 292.5/31

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

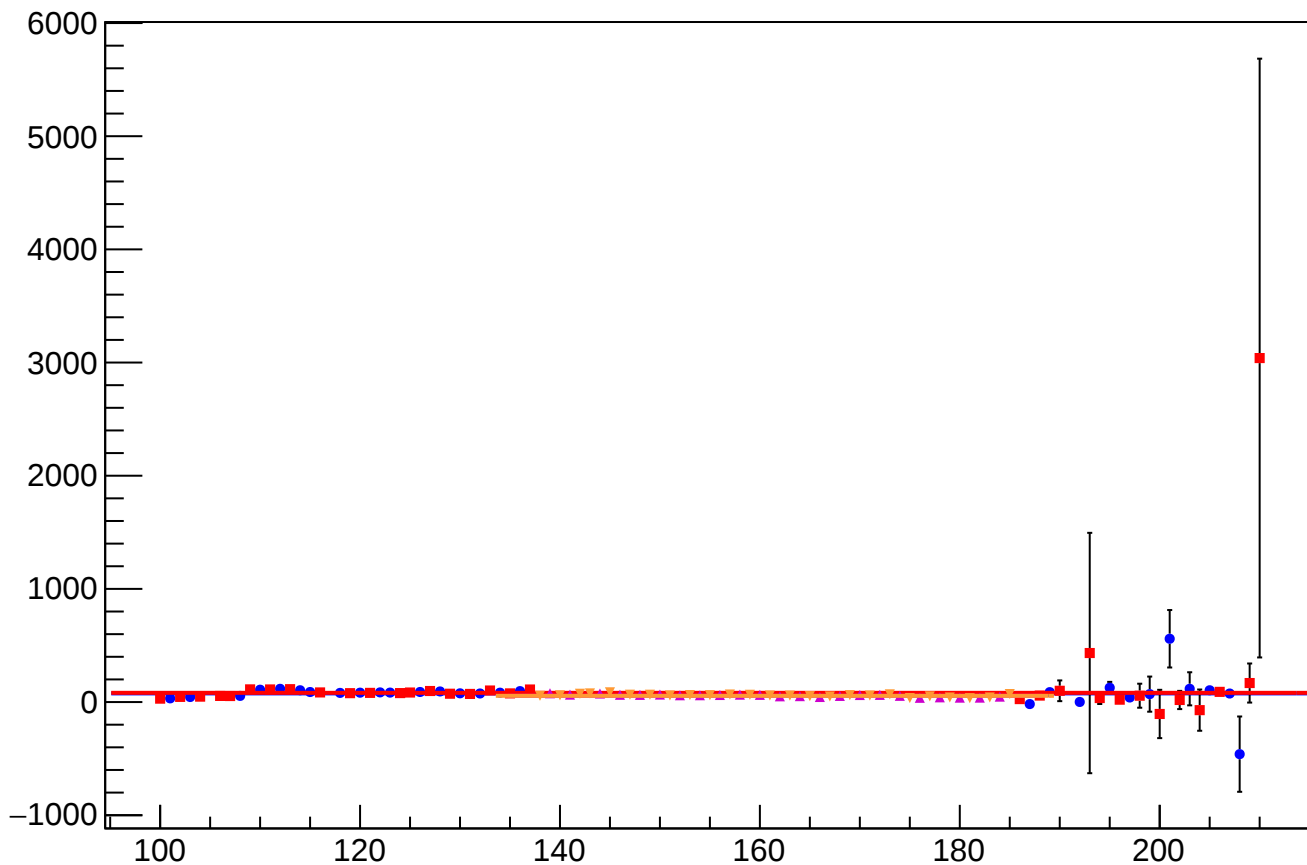
Right: 3.073+/-0.227 χ^2/NDF : 616.2/59

In: -0.242+/-0.136 χ^2/NDF : 1474.4/50

Out: 0.075+/-0.133 χ^2/NDF : 1762.5/56

All: -0.081+/-0.095 χ^2/NDF : 3239.7/107

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532+/-0.576 χ^2/NDF : 2271.9/27

Left Out: 55.098+/-0.191 χ^2/NDF : 4579.3/24

Right Out: 81.491+/-0.590 χ^2/NDF : 1634.1/31

Left In: 55.070+/-0.193 χ^2/NDF : 3702.8/22

Left: 55.084+/-0.136 χ^2/NDF : 8282.1/47

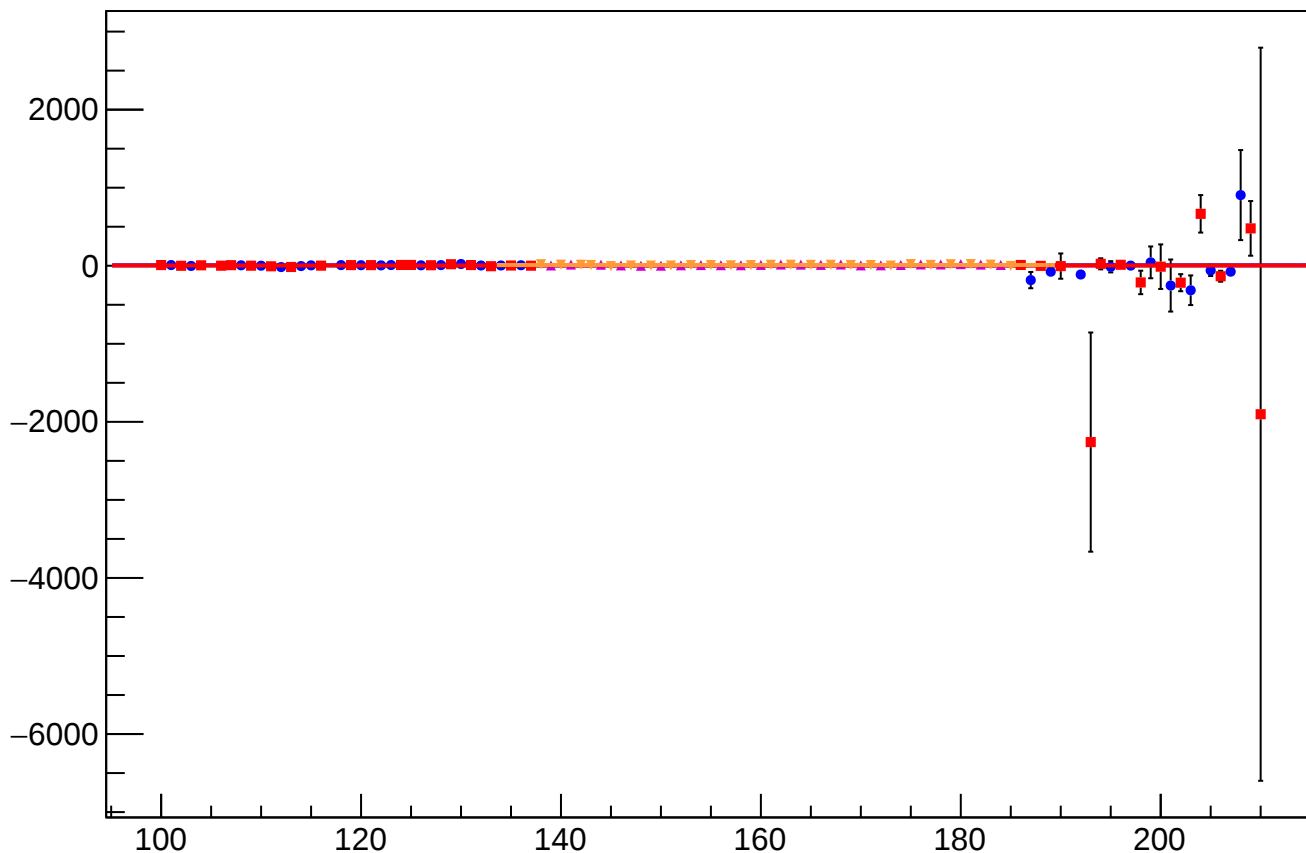
Right: 78.951+/-0.412 χ^2/NDF : 3942.2/59

In: 57.245+/-0.183 χ^2/NDF : 7221.6/50

Out: 57.609+/-0.182 χ^2/NDF : 8021.2/56

All: 57.428+/-0.129 χ^2/NDF : 15244.8/107

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.406 $\pm$ 0.361 χ^2 /NDF: 407.1/27

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 444.1/31

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

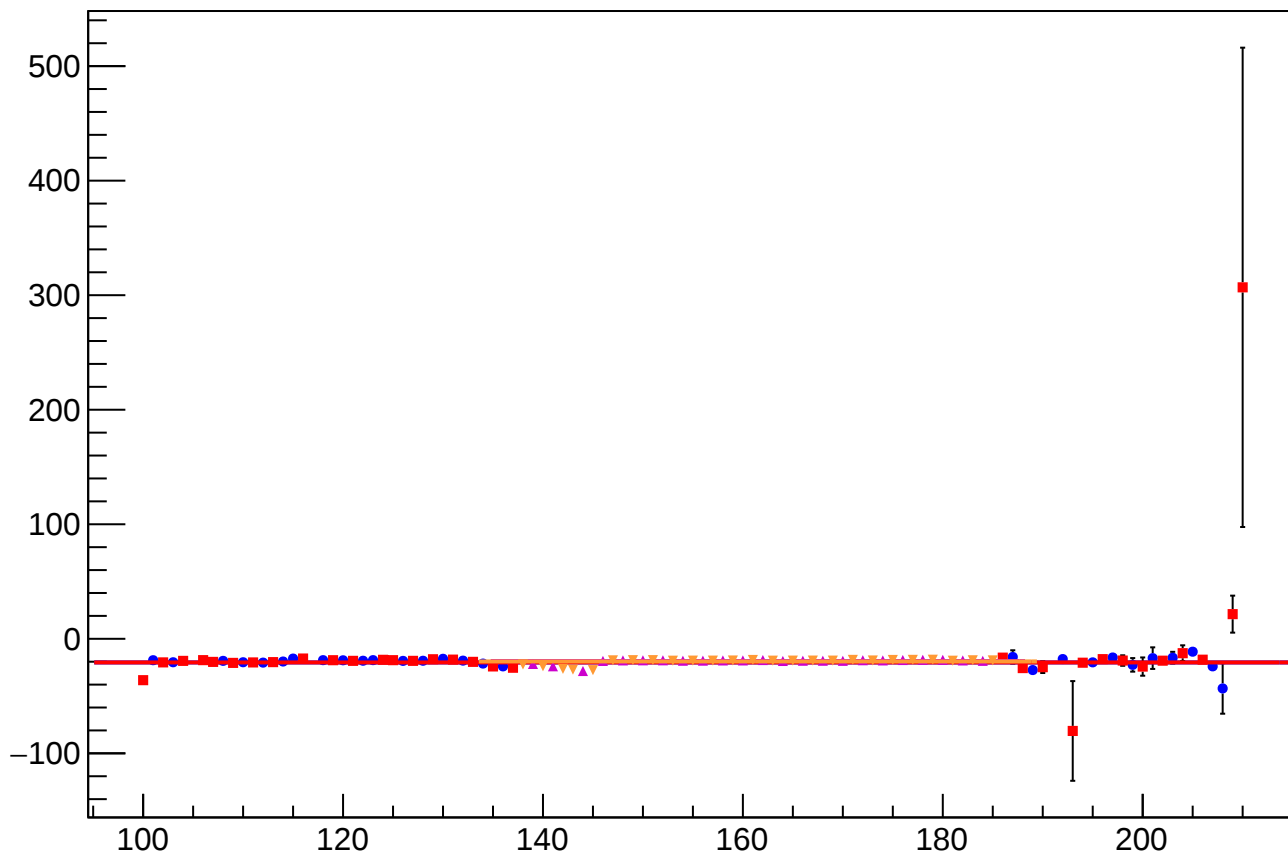
Right: 4.529 $\pm$ 0.260 χ^2 /NDF: 863.5/59

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1686.9/50

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2118.5/56

All: 8.850 $\pm$ 0.109 χ^2 /NDF: 3807.1/107

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12455.1/27

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13819.1/31

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

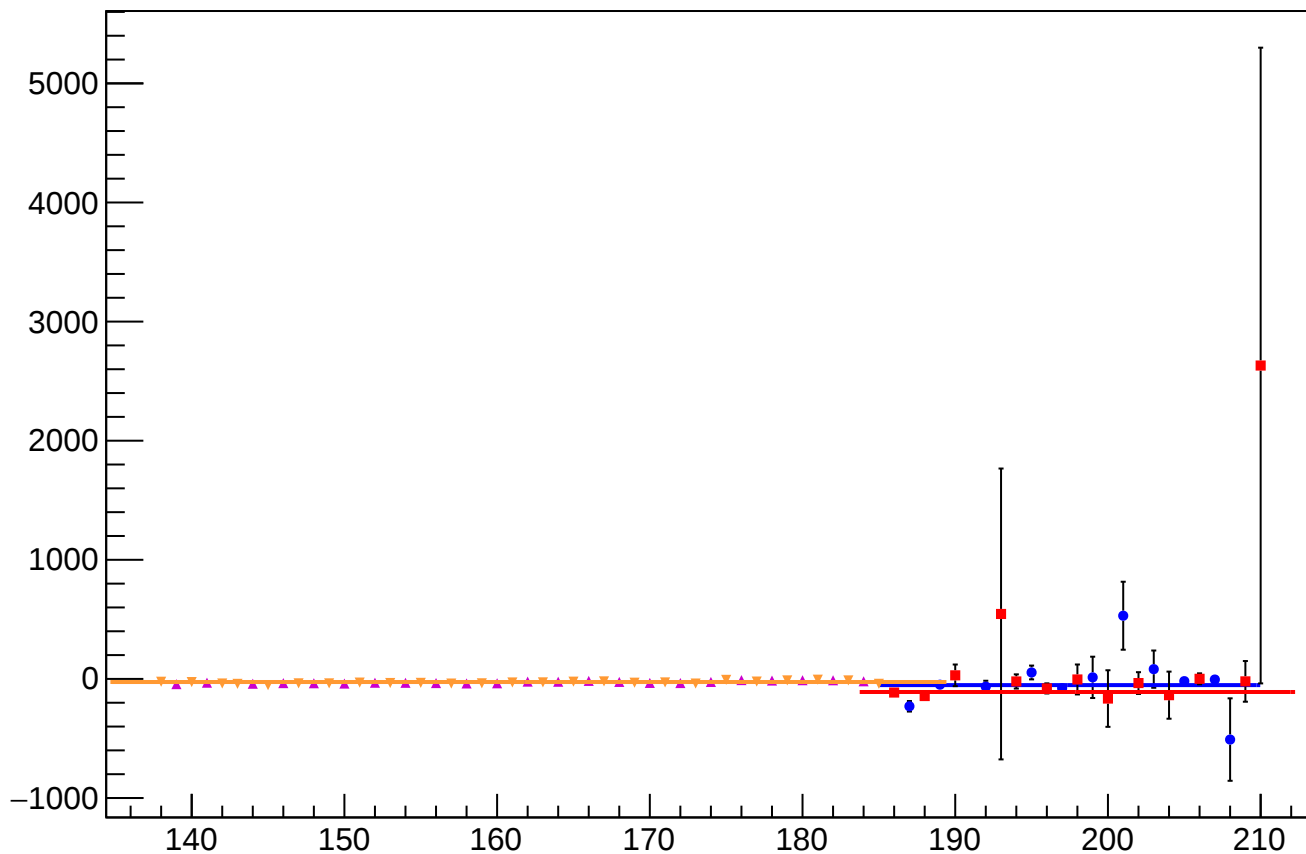
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26274.3/59

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68963.7/50

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107158.6/56

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176850.8/107

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -51.990 $\pm$ 13.060 χ^2 /NDF: 29.3/10

Left Out: -25.899 $\pm$ 0.192 χ^2 /NDF: 4127.5/24

Right Out: -109.802 $\pm$ 8.117 χ^2 /NDF: 16.9/12

Left In: -26.046 $\pm$ 0.195 χ^2 /NDF: 3246.7/22

Left: -25.971 $\pm$ 0.137 χ^2 /NDF: 7374.6/47

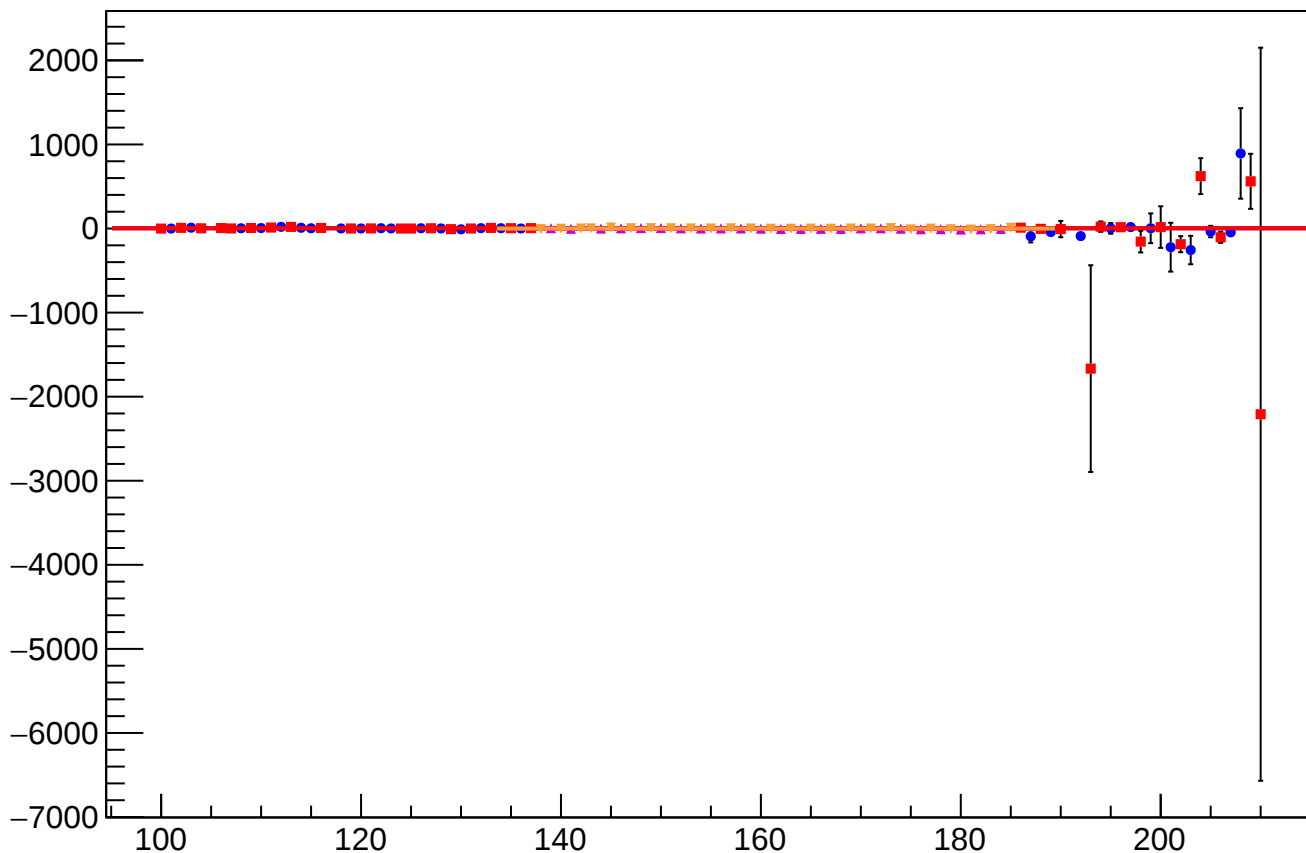
Right: -93.693 $\pm$ 6.894 χ^2 /NDF: 60.3/23

In: -26.052 $\pm$ 0.195 χ^2 /NDF: 3280.0/33

Out: -25.946 $\pm$ 0.192 χ^2 /NDF: 4251.2/37

All: -25.998 $\pm$ 0.137 χ^2 /NDF: 7531.3/71

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.438 ± 0.315 χ^2/NDF : 308.2/27

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593 ± 0.318 χ^2/NDF : 302.2/31

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

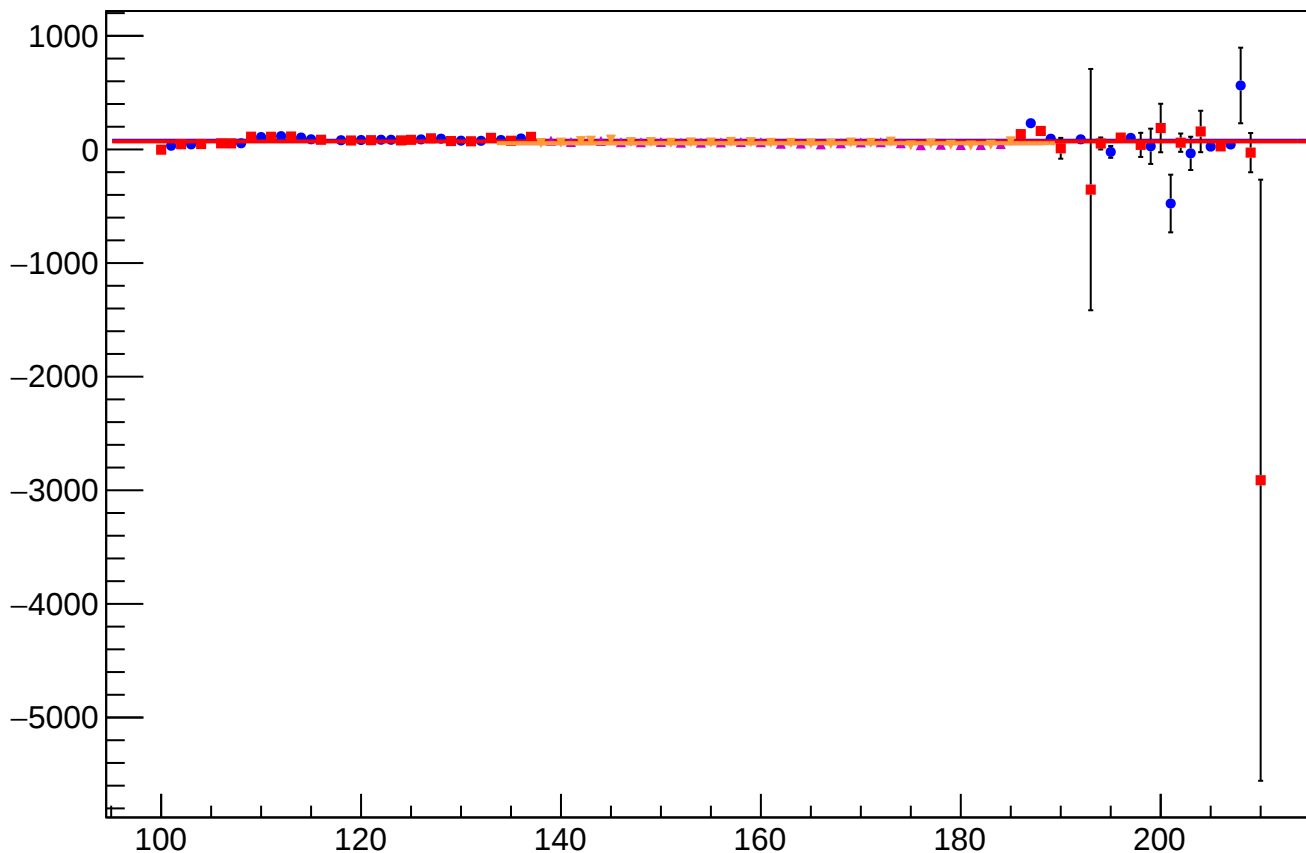
Right: 3.010 ± 0.224 χ^2/NDF : 617.1/59

In: -0.194 ± 0.136 χ^2/NDF : 1500.3/50

Out: 0.136 ± 0.133 χ^2/NDF : 1756.2/56

All: -0.025 ± 0.095 χ^2/NDF : 3259.5/107

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2298.4/27

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.747 $\pm$ 0.549 χ^2 /NDF: 4494.0/31

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

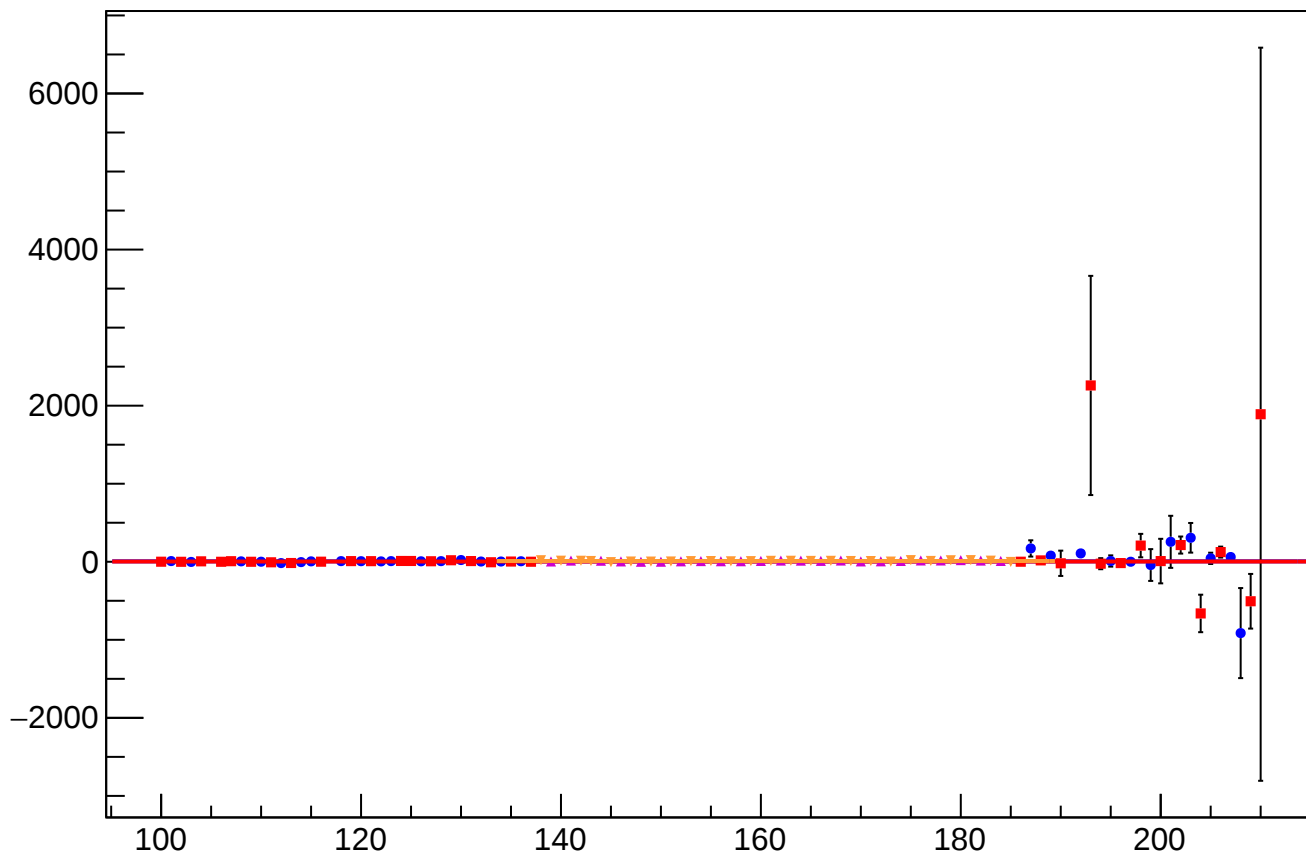
Right: 73.581 $\pm$ 0.397 χ^2 /NDF: 6848.6/59

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7226.5/50

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9778.2/56

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17008.1/107

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.445 $\pm$ 0.361 χ^2 /NDF: 400.8/27

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 446.5/31

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

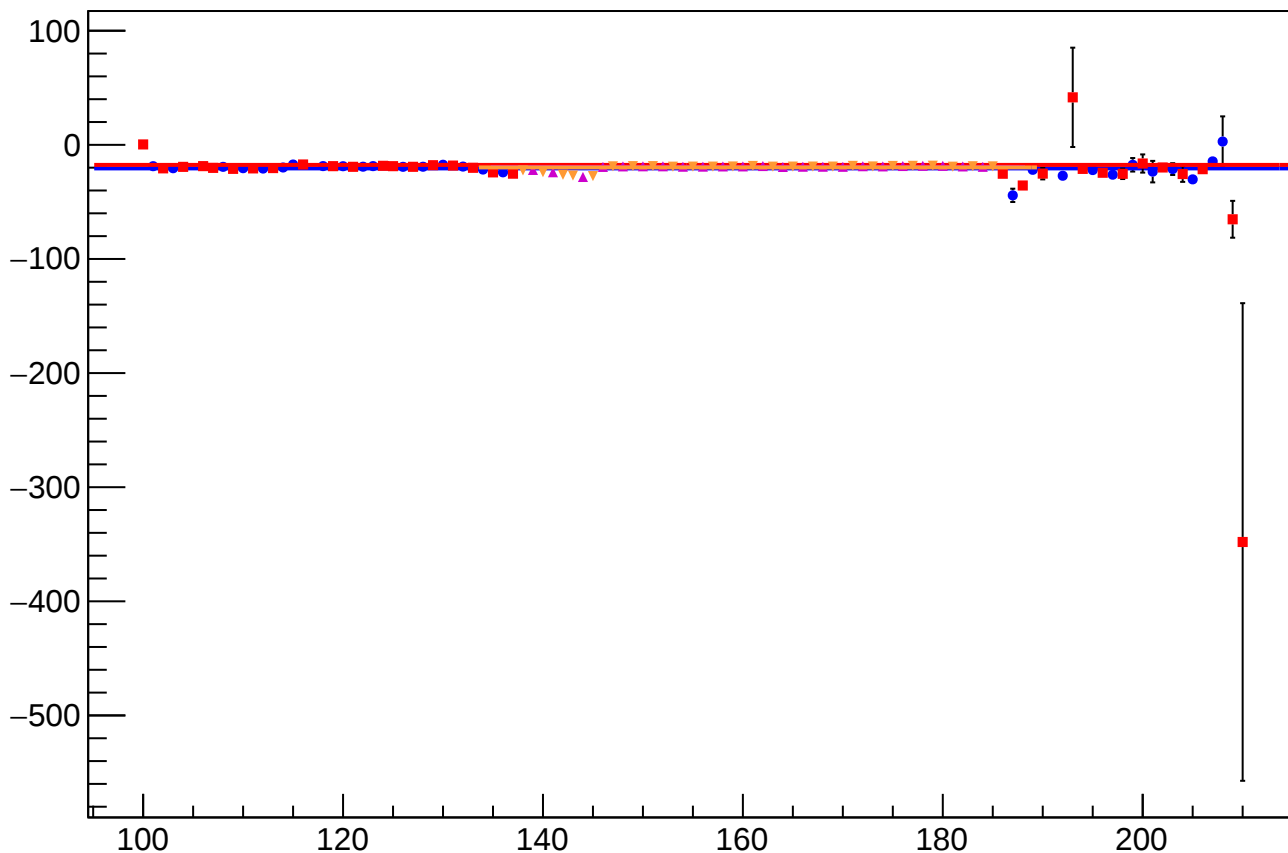
Right: 4.377 $\pm$ 0.257 χ^2 /NDF: 865.0/59

In: 8.946 $\pm$ 0.155 χ^2 /NDF:1707.2/50

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2140.5/56

All: 8.751 $\pm$ 0.109 χ^2 /NDF: 3850.8/107

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 ± 0.019 $\chi^2/\text{NDF}: 12515.9/27$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178452.8/31$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

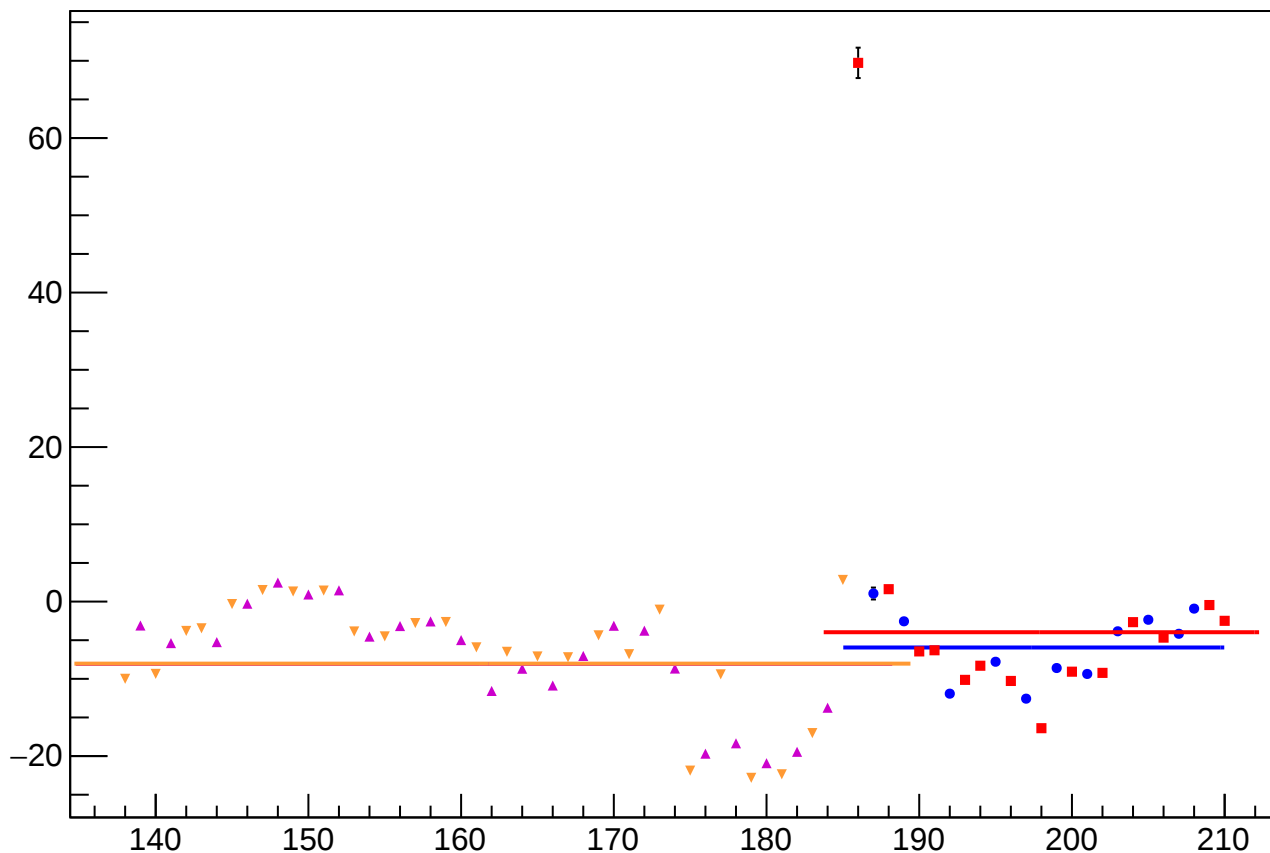
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204438.3/59$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68937.3/50$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282439.6/56$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351740.1/107$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.943 ± 0.120 $\chi^2/\text{NDF}: 1188.8/10$

Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$

Right Out: -3.966 ± 0.099 $\chi^2/\text{NDF}: 4099.3/13$

Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$

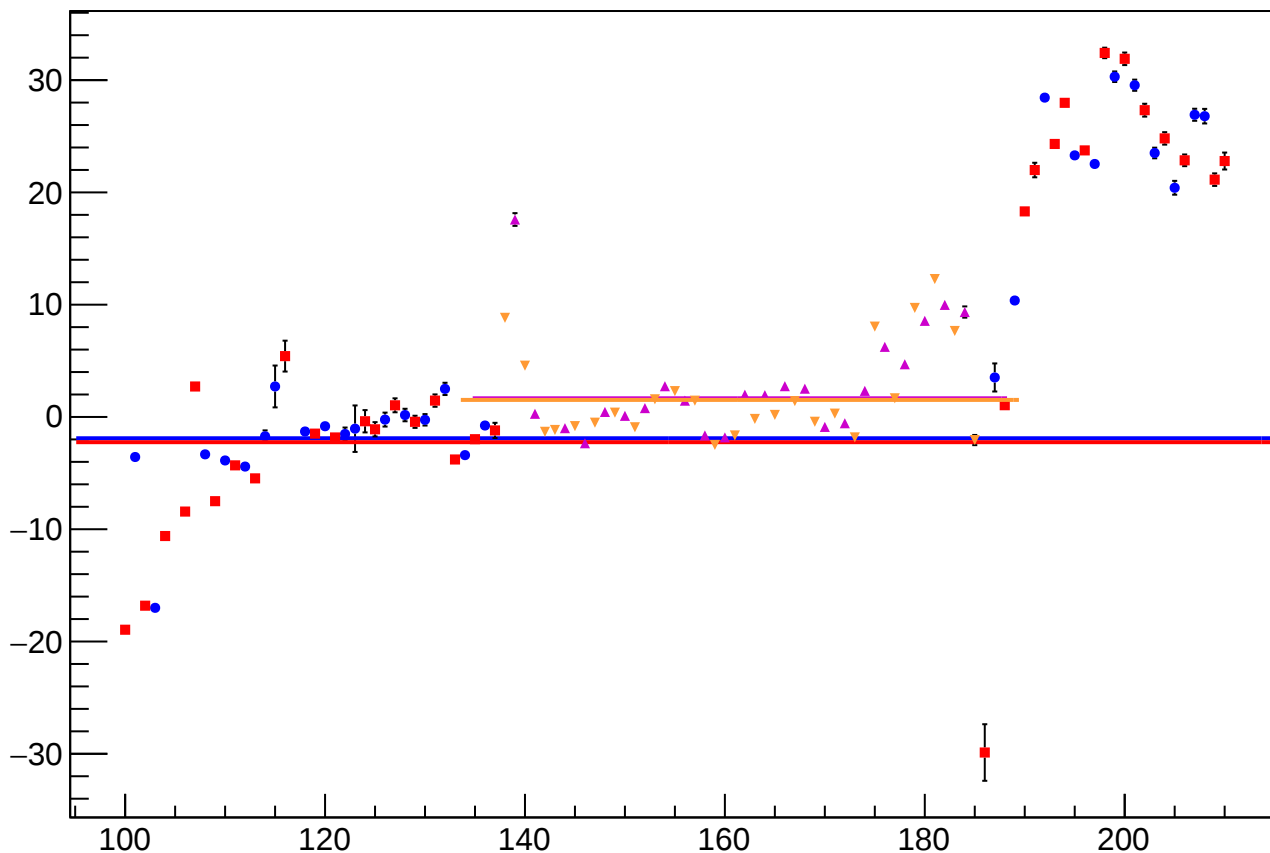
Right: -4.765 ± 0.076 $\chi^2/\text{NDF}: 5449.6/24$

In: -7.514 ± 0.062 $\chi^2/\text{NDF}: 11963.1/33$

Out: -6.668 ± 0.057 $\chi^2/\text{NDF}: 17791.3/38$

All: -7.060 ± 0.042 $\chi^2/\text{NDF}: 29855.2/72$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.898 ± 0.051 χ^2/NDF : 45171.3/27

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.247 ± 0.054 χ^2/NDF : 56547.5/32

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

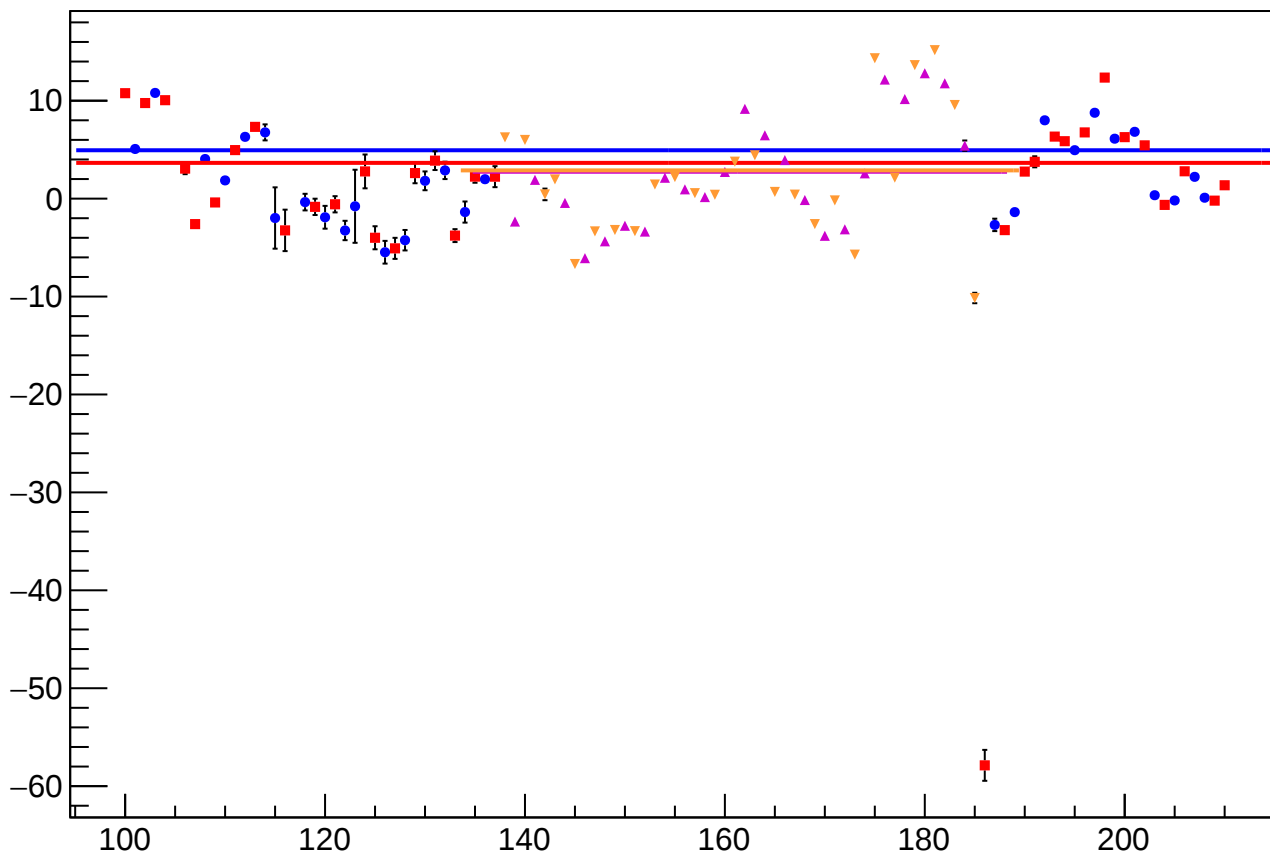
Right: -2.065 ± 0.037 χ^2/NDF : 101740.9/60

In: -0.286 ± 0.038 χ^2/NDF : 51372.9/50

Out: -0.394 ± 0.038 χ^2/NDF : 63831.6/57

All: -0.340 ± 0.027 χ^2/NDF : 115208.5/108

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.940 ± 0.070 $\chi^2/\text{NDF}: 2847.8/27$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.652 ± 0.064 $\chi^2/\text{NDF}: 7989.2/32$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

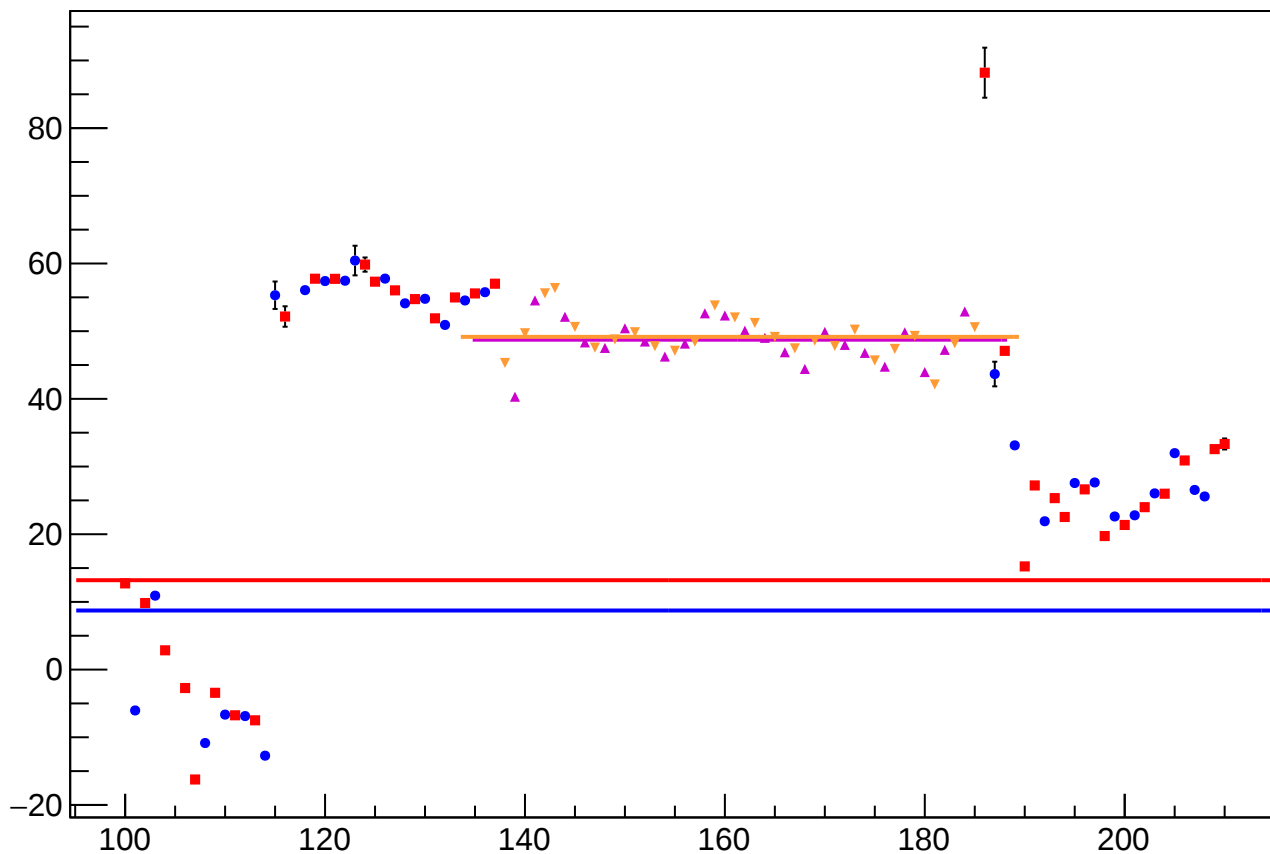
Right: 4.243 ± 0.047 $\chi^2/\text{NDF}: 11021.8/60$

In: 3.870 ± 0.050 $\chi^2/\text{NDF}: 10514.4/50$

Out: 3.303 ± 0.047 $\chi^2/\text{NDF}: 16947.4/57$

All: 3.572 ± 0.034 $\chi^2/\text{NDF}: 27529.8/108$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.729 ± 0.061 $\chi^2/\text{NDF}: 133050.8/27$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 13.207 ± 0.064 $\chi^2/\text{NDF}: 137253.7/32$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

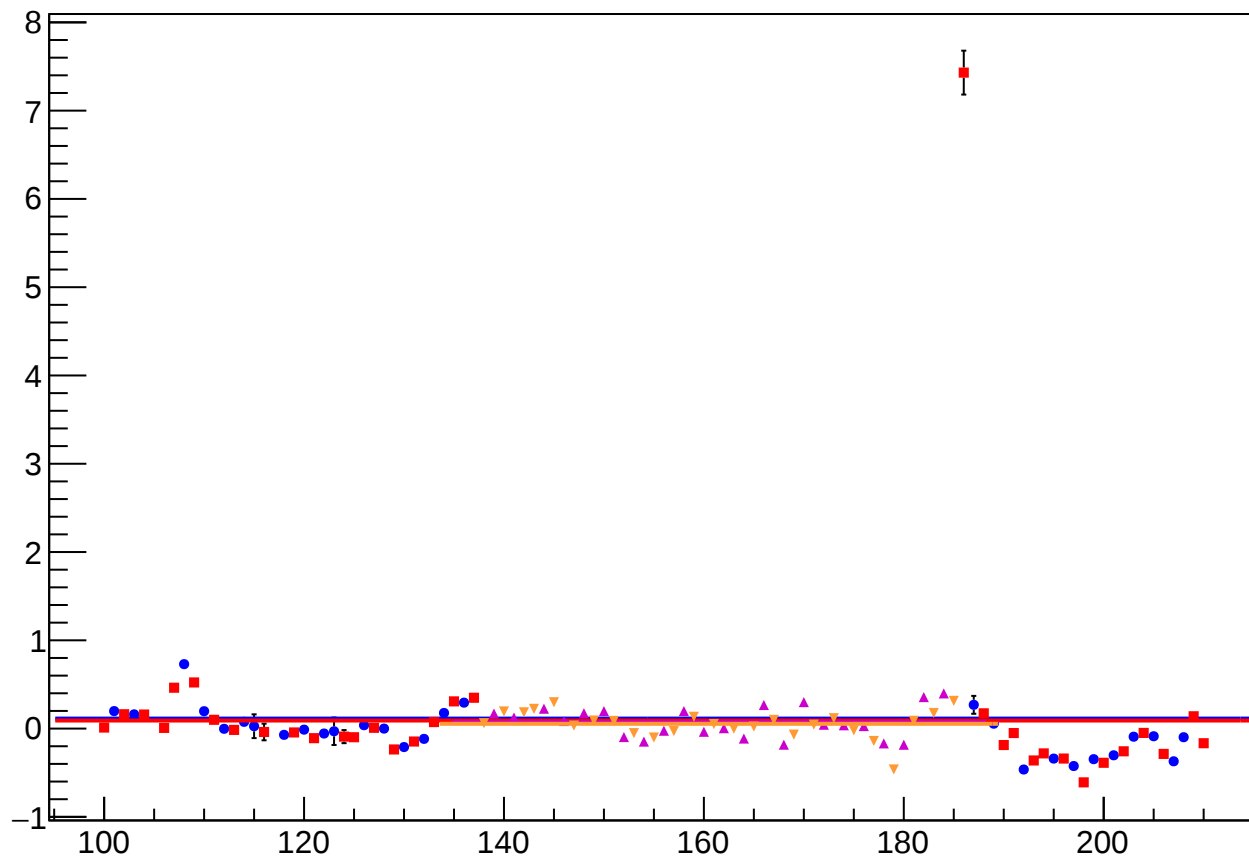
Right: 10.866 ± 0.044 $\chi^2/\text{NDF}: 272904.3/60$

In: 27.739 ± 0.044 $\chi^2/\text{NDF}: 341854.3/50$

Out: 31.691 ± 0.044 $\chi^2/\text{NDF}: 304323.6/57$

All: 29.701 ± 0.031 $\chi^2/\text{NDF}: 650191.0/108$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113+/-0.002 χ^2/NDF : 11562.1/27

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.091+/-0.002 χ^2/NDF : 10984.0/32

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

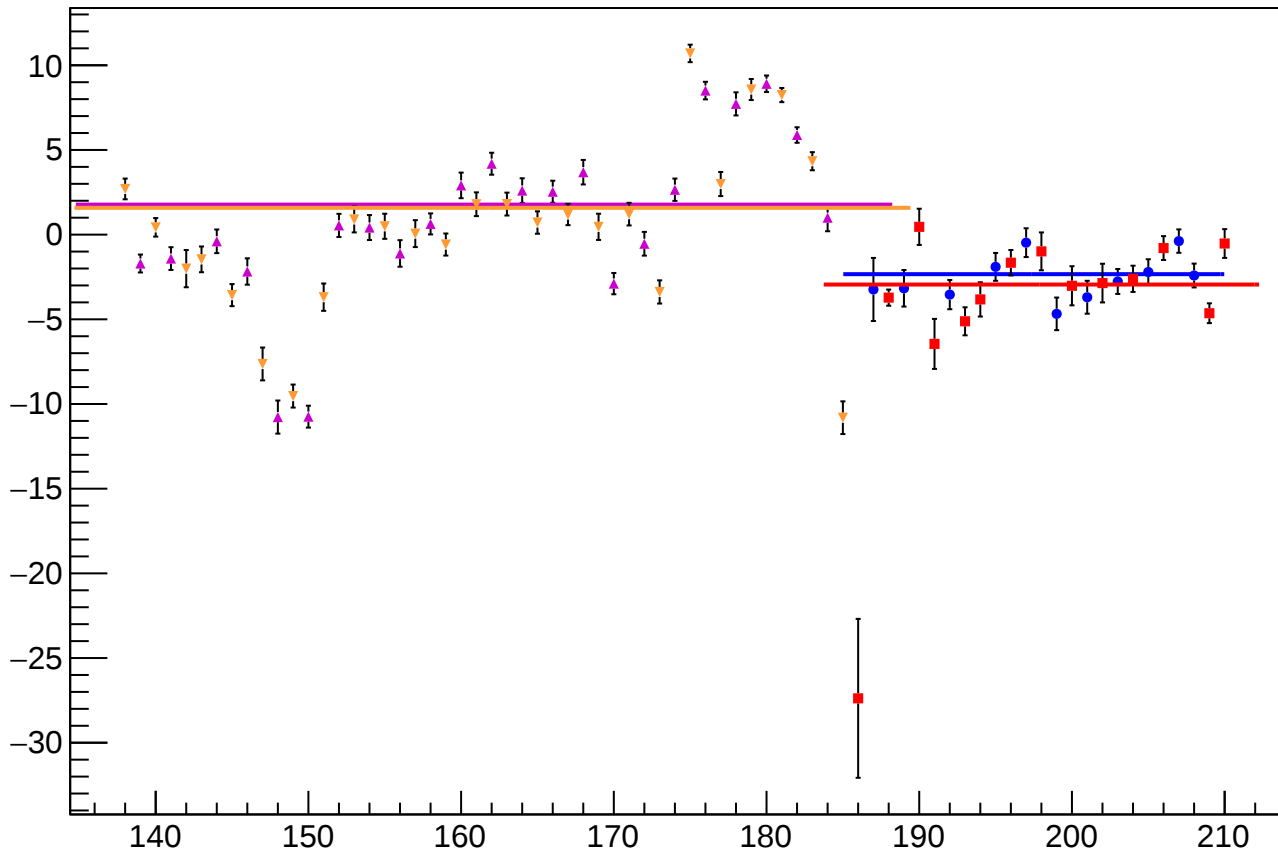
Right: 0.102+/-0.002 χ^2/NDF : 22586.5/60

In: 0.095+/-0.002 χ^2/NDF : 14923.8/50

Out: 0.076+/-0.002 χ^2/NDF : 13466.0/57

All: 0.085+/-0.001 χ^2/NDF : 28442.4/108

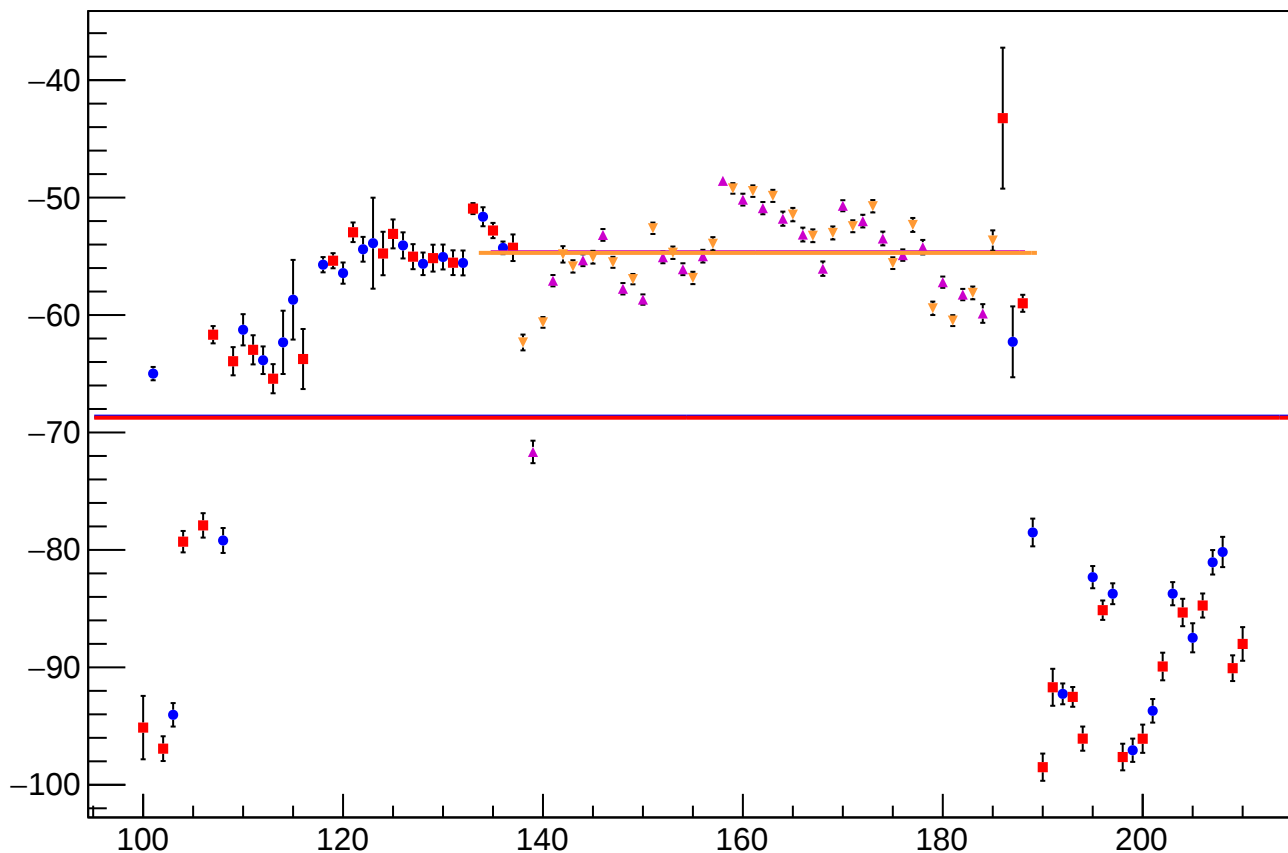
reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.334 ± 0.256 χ^2/NDF : 24.1/10
 Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24
 Right Out: -2.946 ± 0.222 χ^2/NDF : 85.3/13
 Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47
 Right: -2.684 ± 0.168 χ^2/NDF : 112.6/24
 In: 0.880 ± 0.120 χ^2/NDF : 1522.3/33
 Out: 0.392 ± 0.114 χ^2/NDF : 1851.0/38
 All: 0.624 ± 0.082 χ^2/NDF : 3382.0/72

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -68.650 ± 0.184 $\chi^2/\text{NDF}: 6862.2/27$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -68.742 ± 0.171 $\chi^2/\text{NDF}: 10311.9/32$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

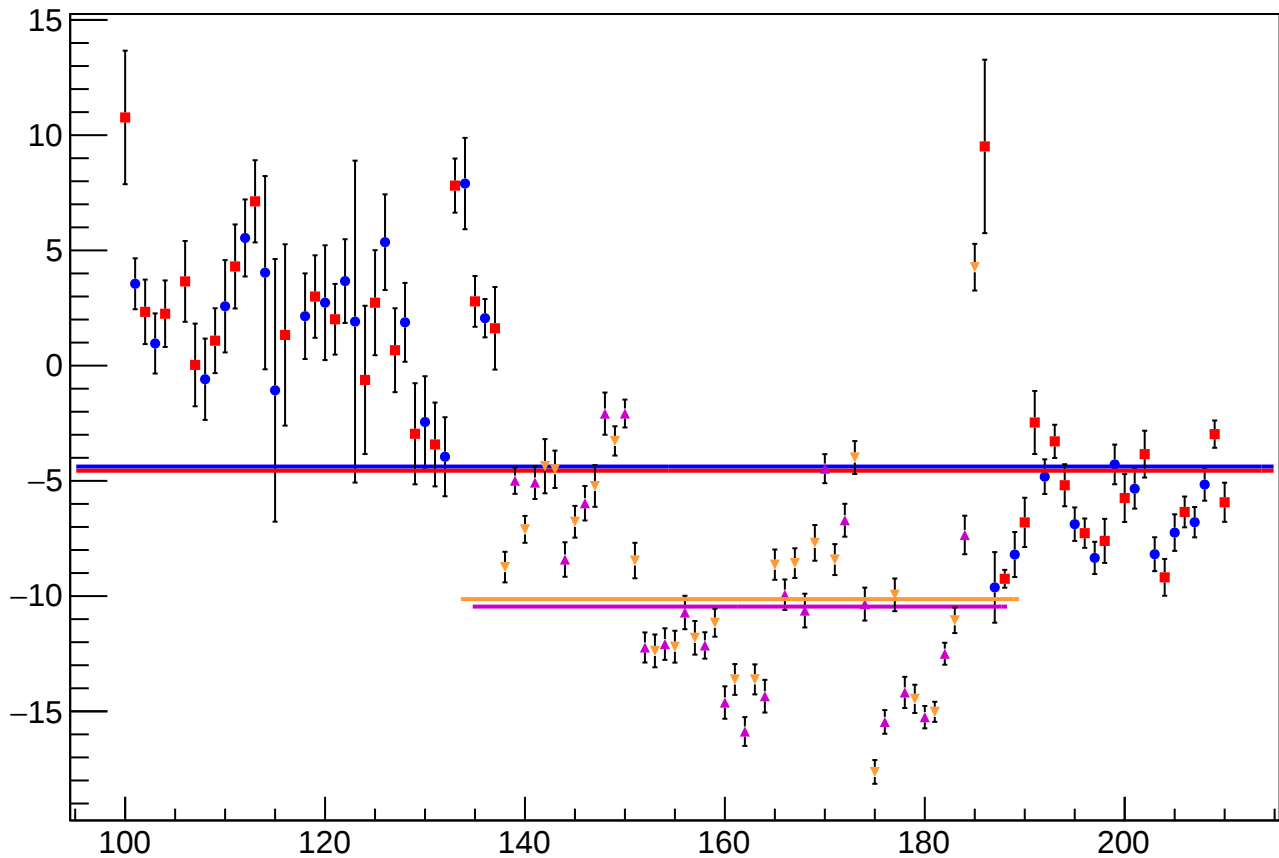
Right: -68.700 ± 0.125 $\chi^2/\text{NDF}: 17174.2/60$

In: -58.315 ± 0.094 $\chi^2/\text{NDF}: 12196.4/50$

Out: -58.597 ± 0.090 $\chi^2/\text{NDF}: 16325.0/57$

All: -58.463 ± 0.065 $\chi^2/\text{NDF}: 28526.1/108$

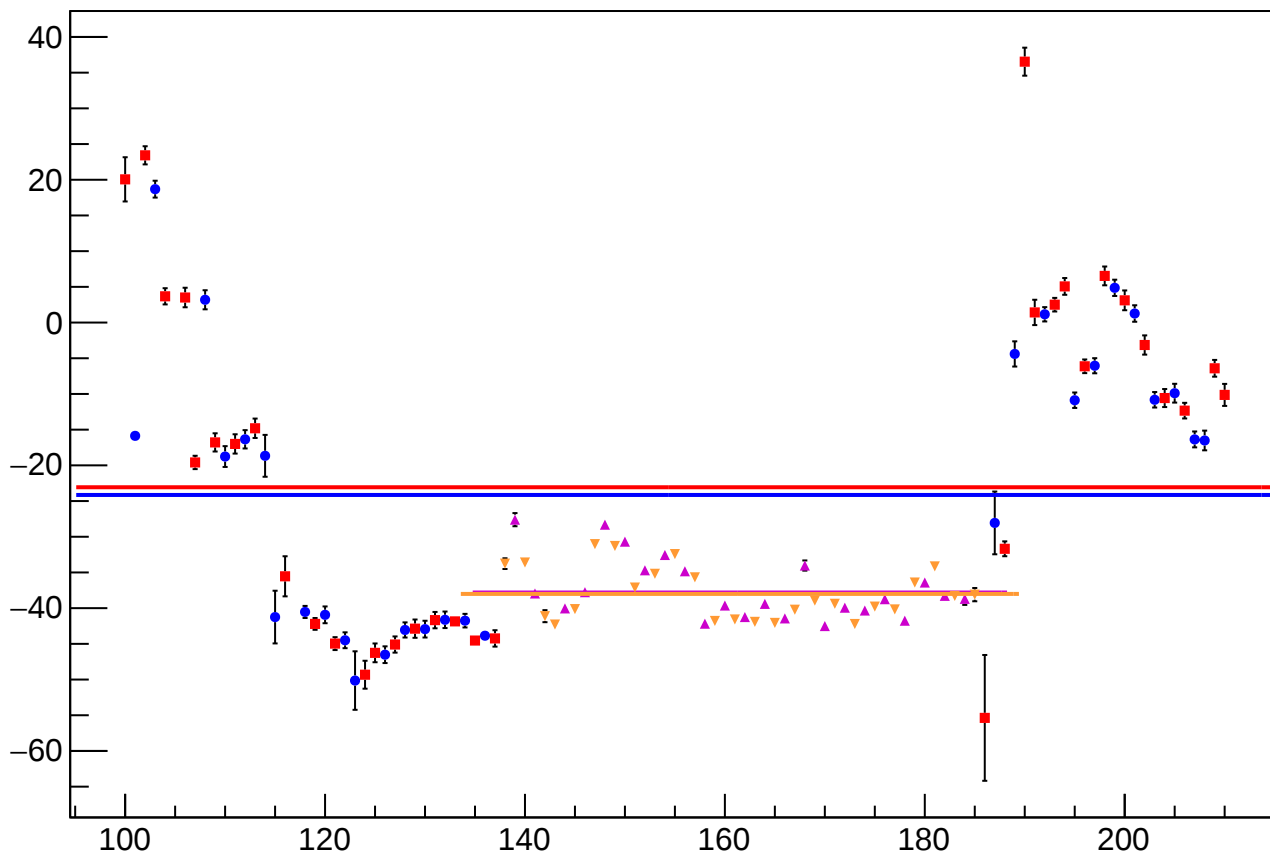
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.379 ± 0.205 $\chi^2/\text{NDF}: 427.2/27$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.560 ± 0.178 $\chi^2/\text{NDF}: 663.7/32$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.482 ± 0.135 $\chi^2/\text{NDF}: 1091.3/60$
 In: -8.628 ± 0.113 $\chi^2/\text{NDF}: 2042.6/50$
 Out: -8.146 ± 0.107 $\chi^2/\text{NDF}: 2346.3/57$
 All: -8.374 ± 0.077 $\chi^2/\text{NDF}: 4398.6/108$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.146 ± 0.210 $\chi^2/\text{NDF}: 8436.1/27$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.067 ± 0.198 $\chi^2/\text{NDF}: 11886.0/32$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

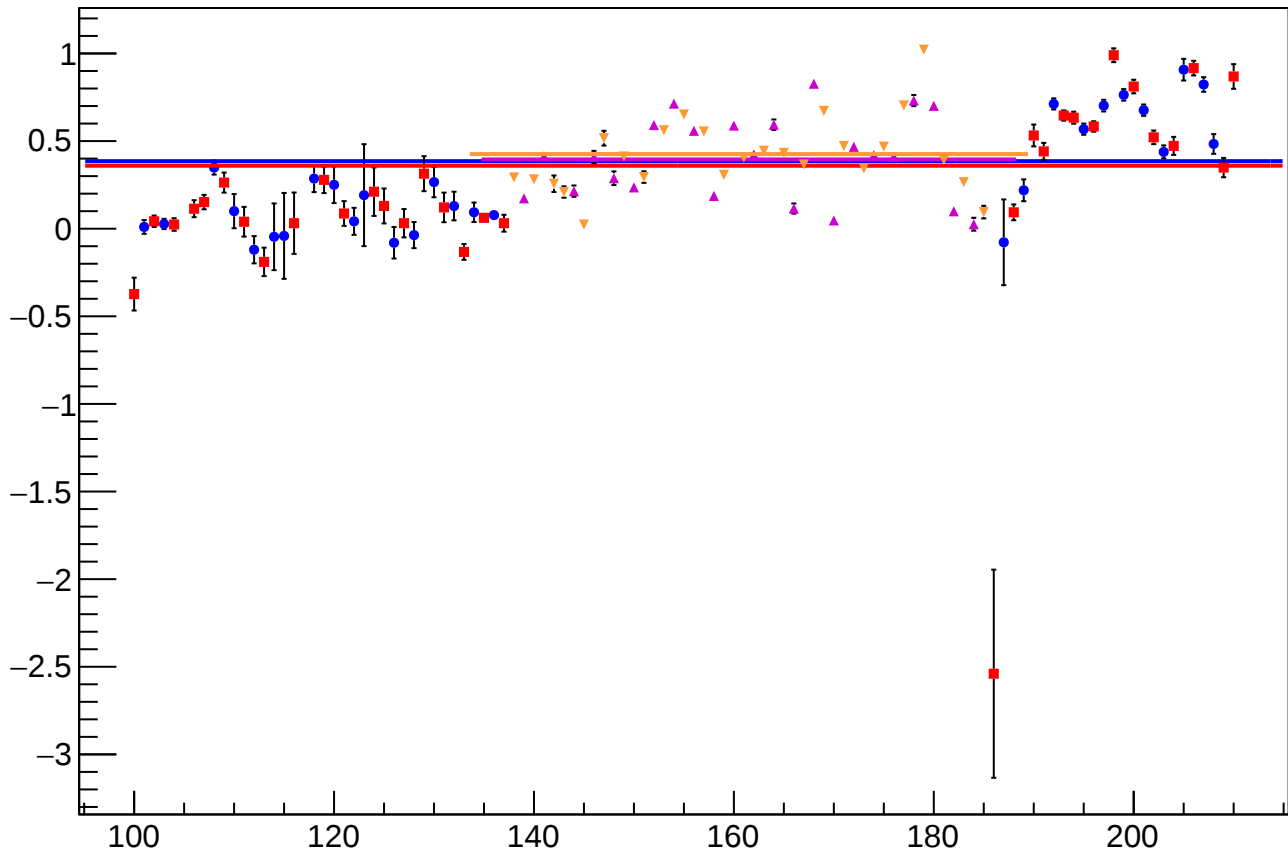
Right: -23.575 ± 0.144 $\chi^2/\text{NDF}: 20336.1/60$

In: -34.353 ± 0.106 $\chi^2/\text{NDF}: 12633.4/50$

Out: -34.062 ± 0.102 $\chi^2/\text{NDF}: 17011.4/57$

All: -34.202 ± 0.073 $\chi^2/\text{NDF}: 29648.8/108$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.385 ± 0.009 χ^2/NDF : 1253.8/27

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.359 ± 0.008 χ^2/NDF : 1627.9/32

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

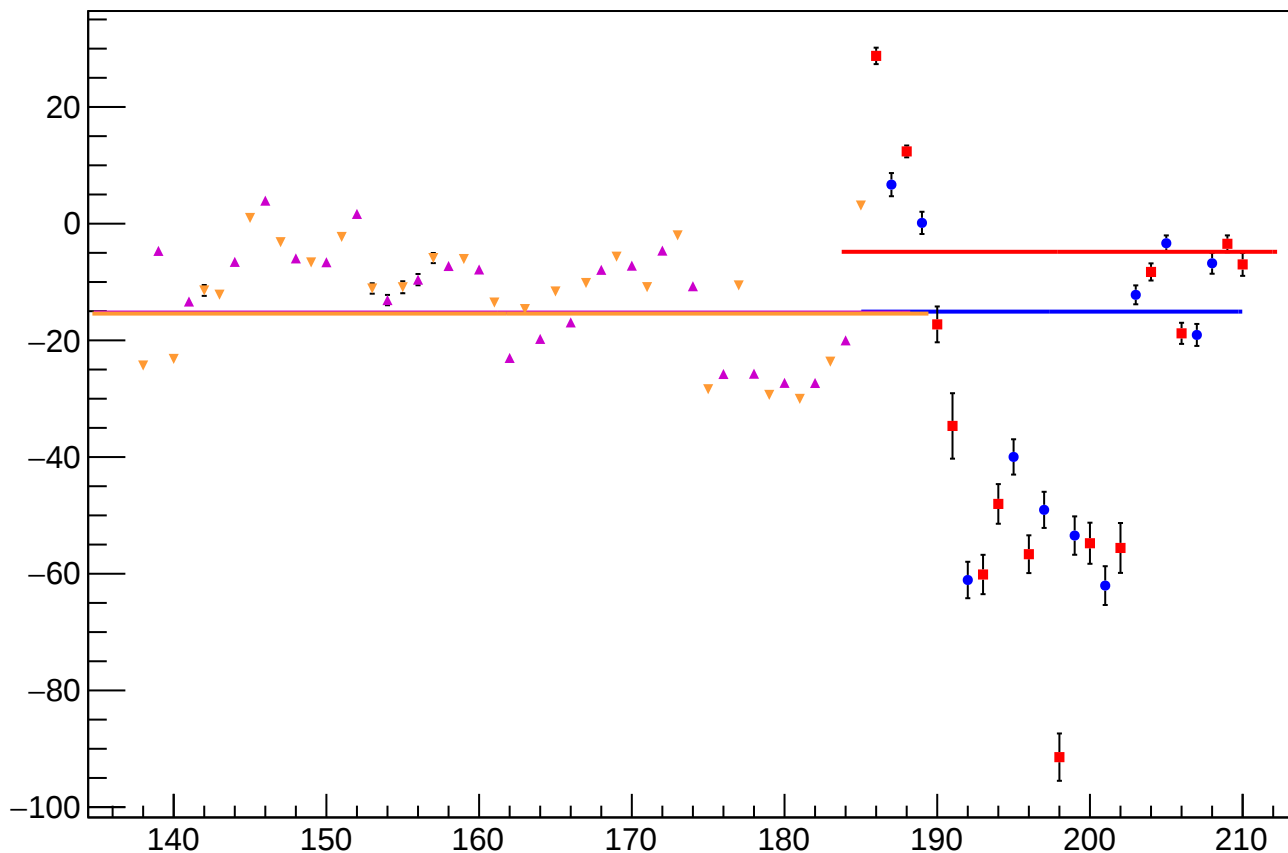
Right: 0.372 ± 0.006 χ^2/NDF : 2886.3/60

In: 0.392 ± 0.005 χ^2/NDF : 3052.8/50

Out: 0.406 ± 0.005 χ^2/NDF : 2976.6/57

All: 0.399 ± 0.003 χ^2/NDF : 6034.0/108

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.073 ± 0.625 $\chi^2/\text{NDF}: 1030.4/10$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.821 ± 0.528 $\chi^2/\text{NDF}: 2453.8/13$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

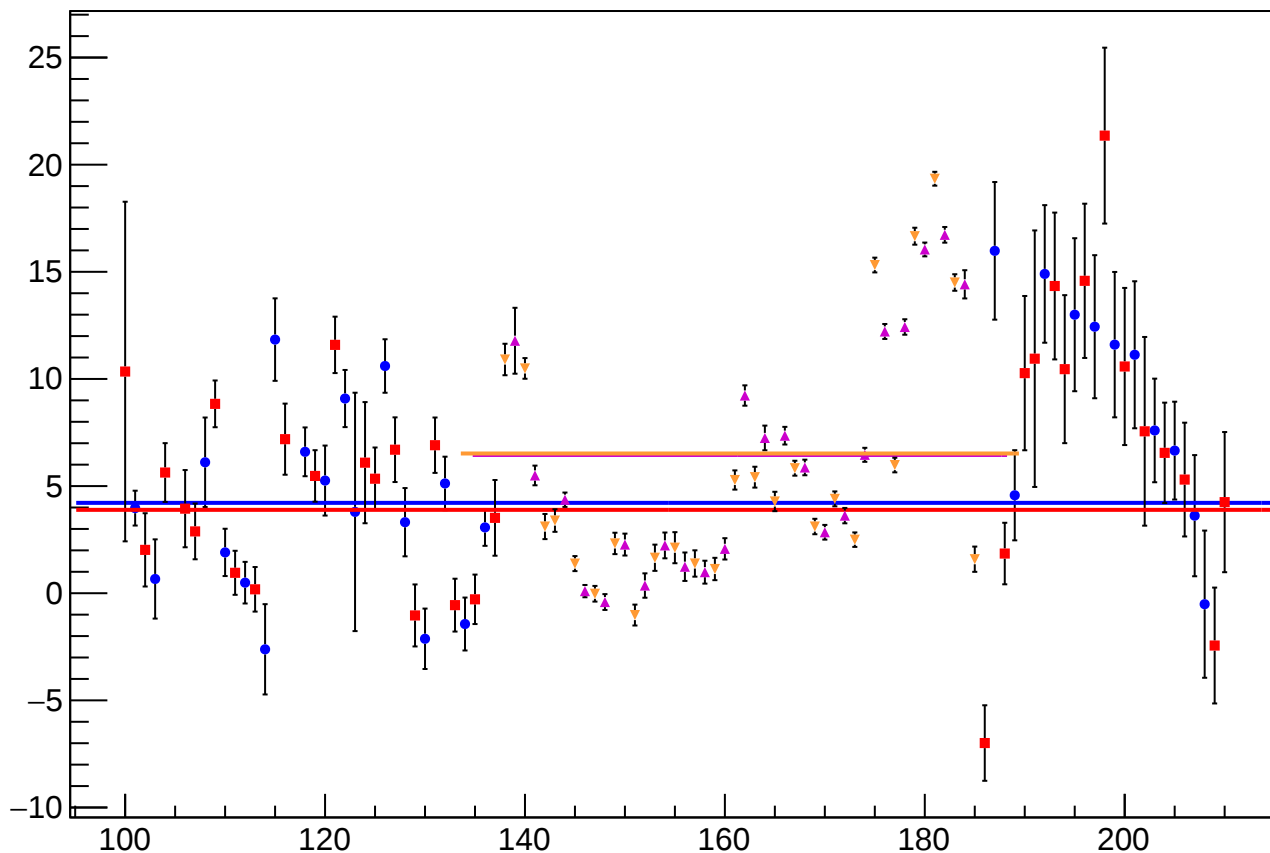
Right: -9.085 ± 0.403 $\chi^2/\text{NDF}: 3641.2/24$

In: -15.225 ± 0.105 $\chi^2/\text{NDF}: 9687.8/33$

Out: -15.007 ± 0.103 $\chi^2/\text{NDF}: 13350.5/38$

All: -15.114 ± 0.074 $\chi^2/\text{NDF}: 23040.4/72$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.217 $\pm$ 0.293 χ^2 /NDF: 188.5/27

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.891 $\pm$ 0.290 χ^2 /NDF: 229.3/32

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

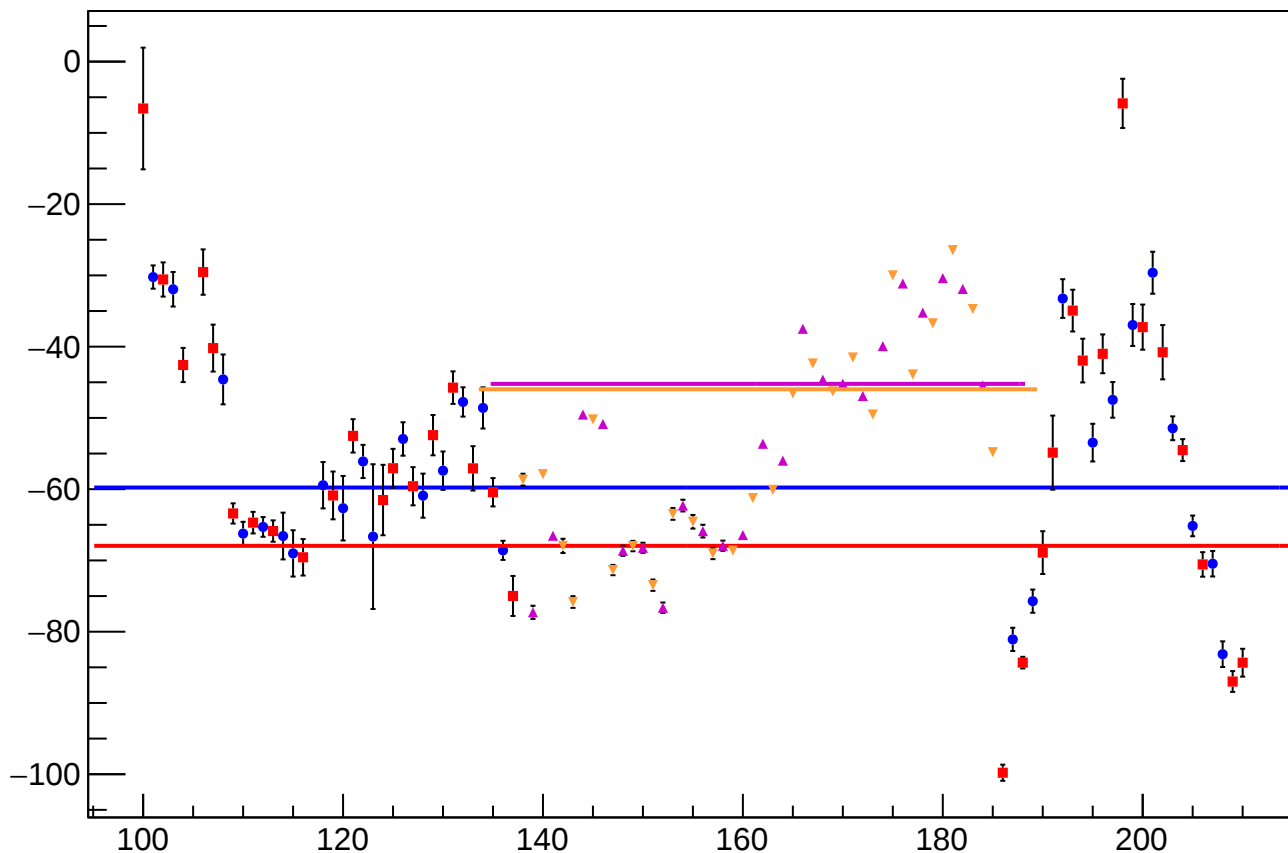
Right: 4.053 $\pm$ 0.206 χ^2 /NDF: 418.4/60

In: 6.274 $\pm$ 0.083 χ^2 /NDF:4190.2/50

Out: 6.311 $\pm$ 0.082 χ^2 /NDF:5290.0/57

All: 6.293 $\pm$ 0.058 χ^2 /NDF: 9480.3/108

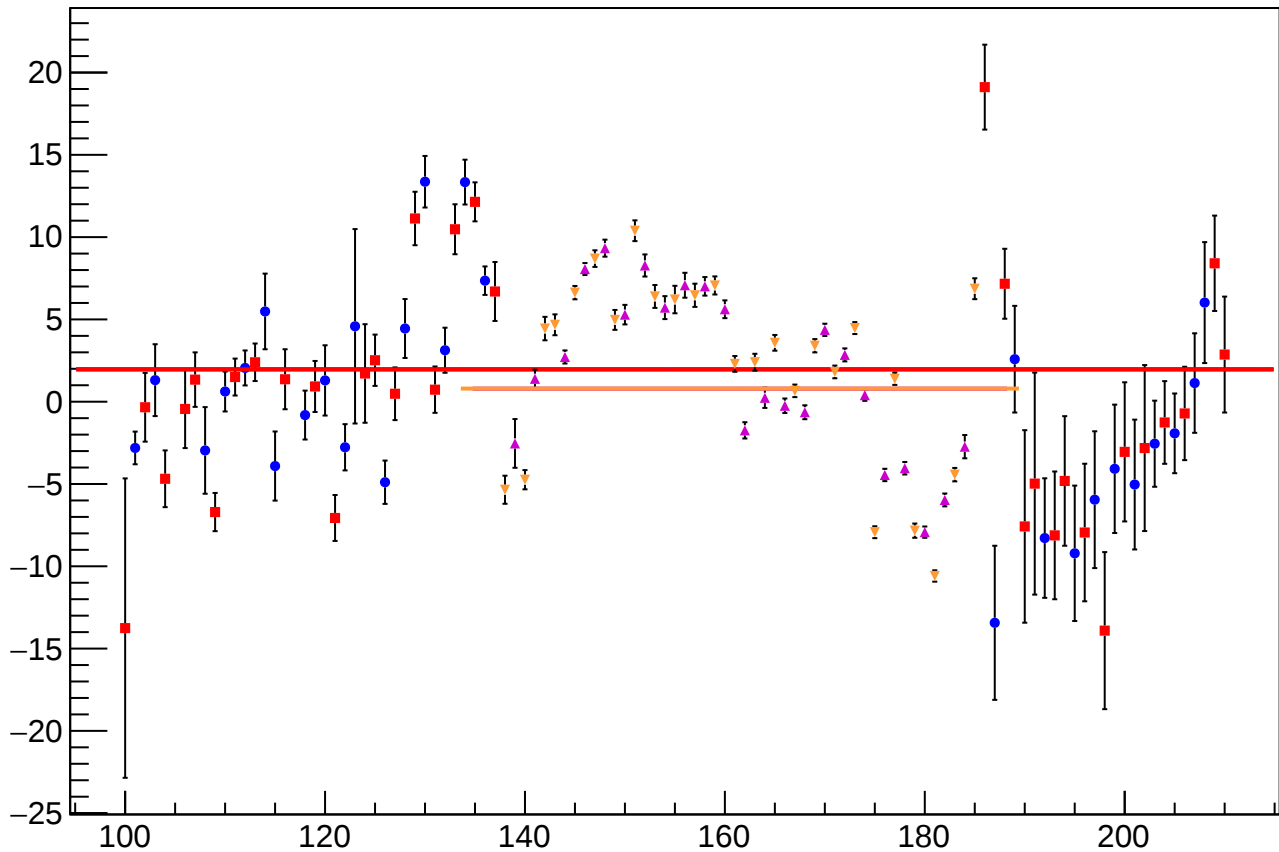
reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.770 ± 0.400 $\chi^2/\text{NDF}: 1425.8/27$
 Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$
 Right Out: -67.948 ± 0.354 $\chi^2/\text{NDF}: 3154.4/32$
 Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$
 Right: -64.361 ± 0.265 $\chi^2/\text{NDF}: 4814.9/60$
 In: -46.197 ± 0.104 $\chi^2/\text{NDF}: 18260.3/50$
 Out: -47.801 ± 0.102 $\chi^2/\text{NDF}: 24053.8/57$
 All: -47.013 ± 0.073 $\chi^2/\text{NDF}: 42436.2/108$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.965 ± 0.329 χ^2/NDF : 286.9/27

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.967 ± 0.331 χ^2/NDF : 354.8/32

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

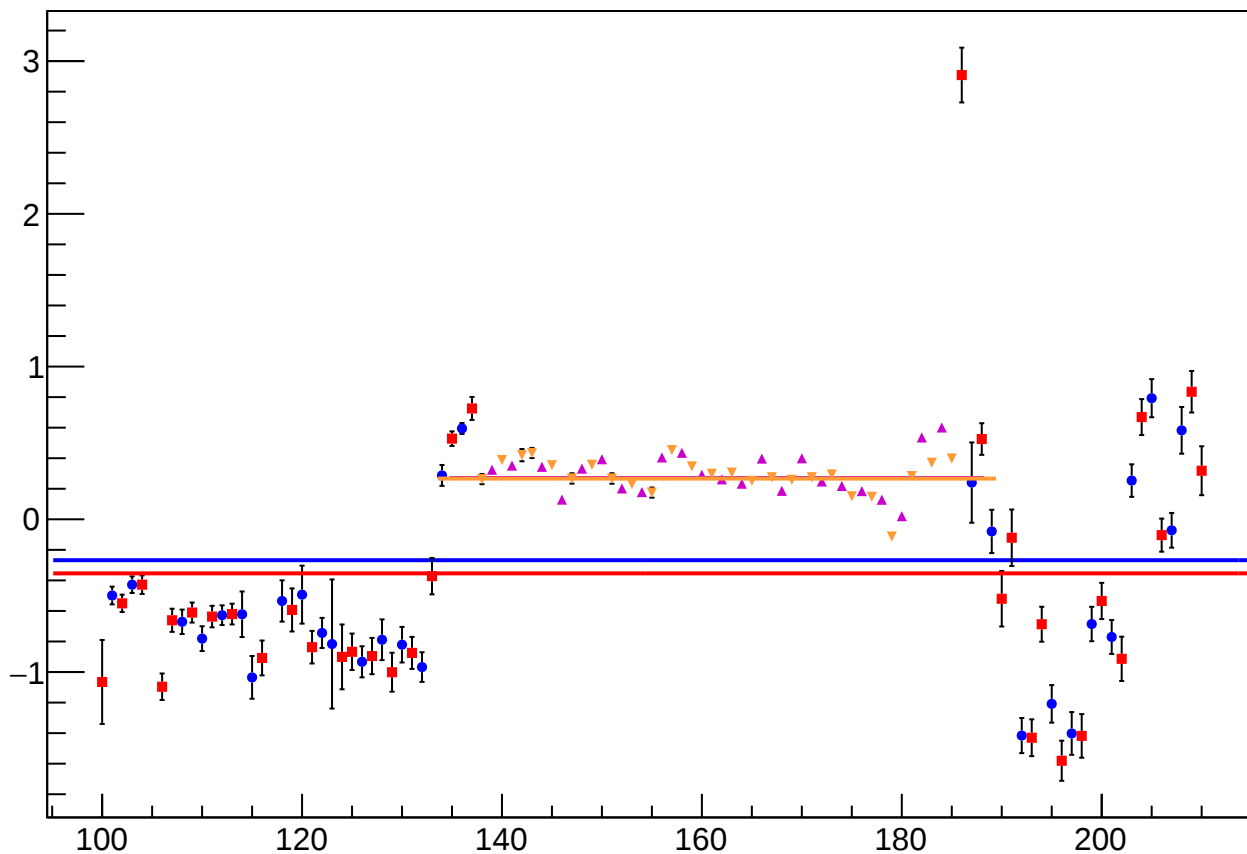
Right: 1.966 ± 0.233 χ^2/NDF : 641.7/60

In: 0.885 ± 0.093 χ^2/NDF : 2991.1/50

Out: 0.888 ± 0.092 χ^2/NDF : 4126.3/57

All: 0.886 ± 0.065 χ^2/NDF : 7117.4/108

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.268 ± 0.017 χ^2/NDF : 1354.3/27

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.354 ± 0.017 χ^2/NDF : 1677.6/32

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

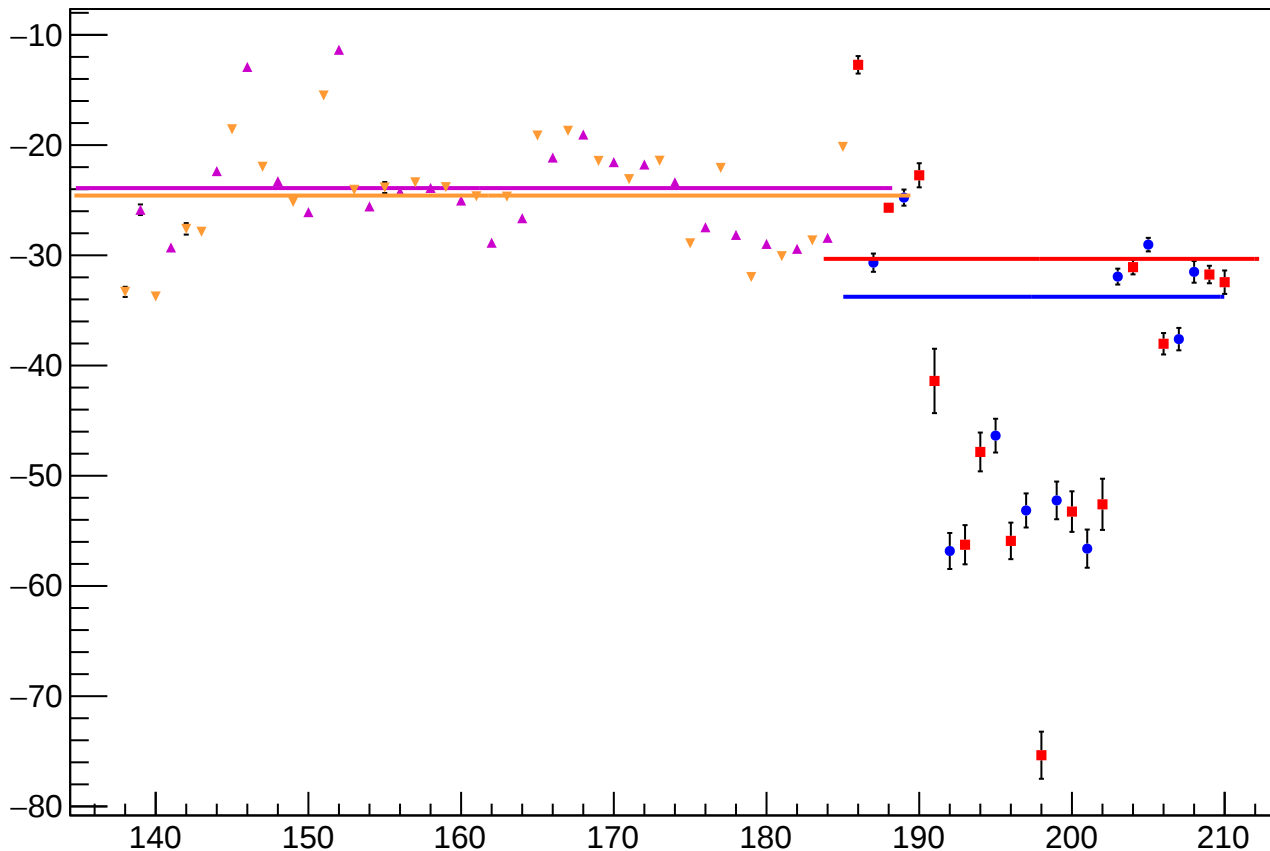
Right: -0.311 ± 0.012 χ^2/NDF : 3045.0/60

In: 0.236 ± 0.004 χ^2/NDF : 3268.3/50

Out: 0.227 ± 0.004 χ^2/NDF : 3666.4/57

All: 0.231 ± 0.003 χ^2/NDF : 6936.8/108

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.761 ± 0.291 χ^2/NDF : 966.1/10
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.322 ± 0.254 χ^2/NDF : 1983.0/13
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

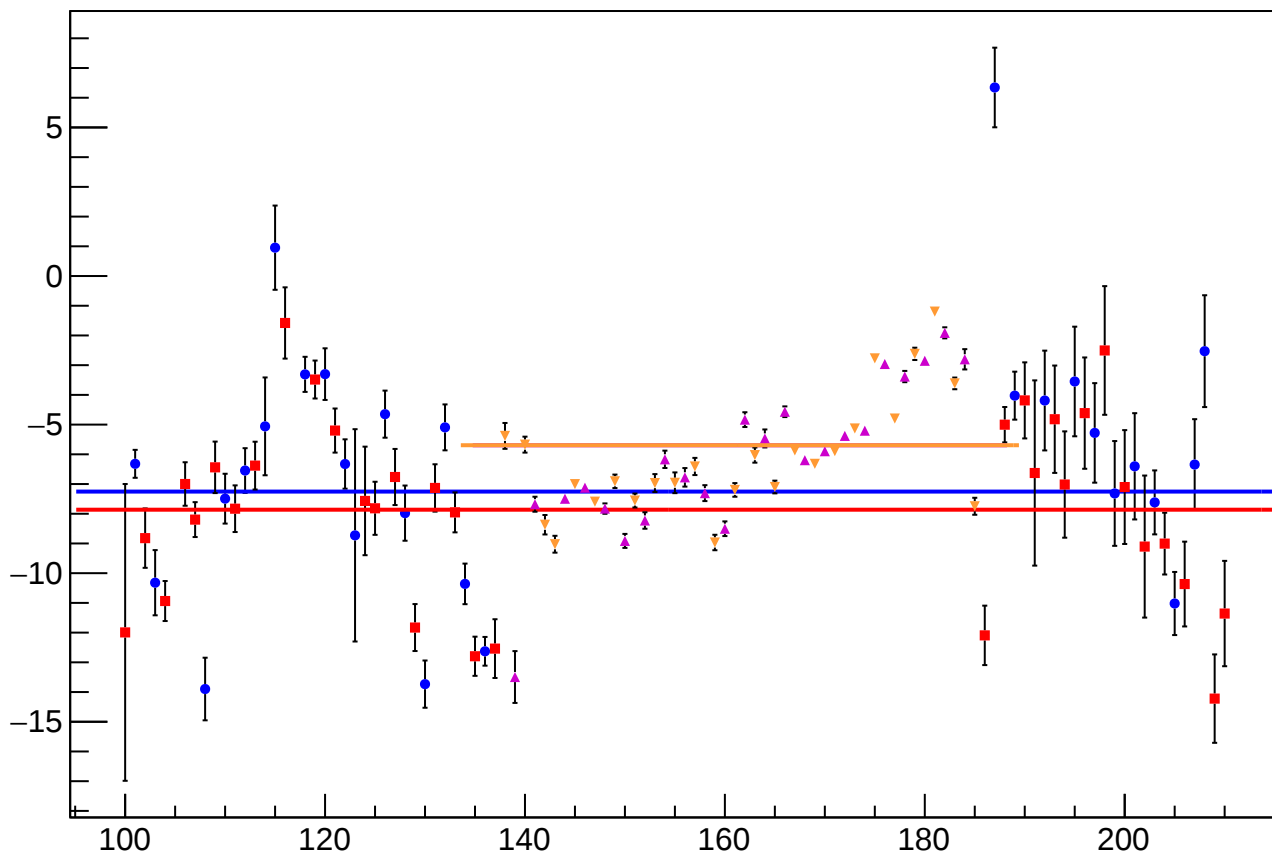
Right: -31.809 ± 0.191 χ^2/NDF : 3028.3/24

In: -24.196 ± 0.050 χ^2/NDF : 11234.0/33

Out: -24.800 ± 0.050 χ^2/NDF : 11065.1/38

All: -24.500 ± 0.035 χ^2/NDF : 22371.7/72

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.254+/-0.170 χ^2/NDF : 532.0/27

Left Out: -5.694+/-0.041 χ^2/NDF : 2258.3/24

Right Out: -7.864+/-0.164 χ^2/NDF : 312.0/32

Left In: -5.696+/-0.041 χ^2/NDF : 2309.8/22

Left: -5.695+/-0.029 χ^2/NDF : 4568.1/47

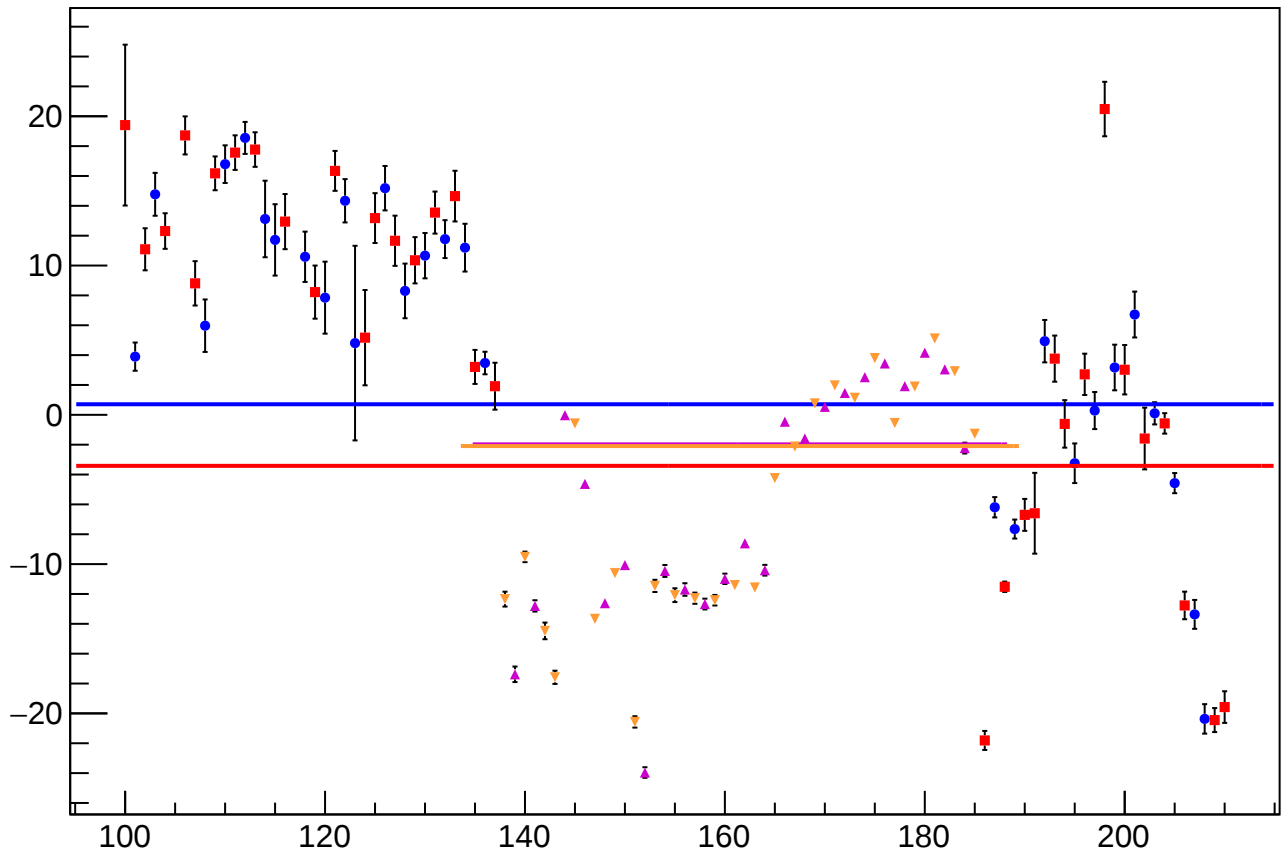
Right: -7.569+/-0.118 χ^2/NDF : 850.7/60

In: -5.781+/-0.040 χ^2/NDF : 2921.3/50

Out: -5.822+/-0.040 χ^2/NDF : 2734.9/57

All: -5.802+/-0.028 χ^2/NDF : 5656.7/108

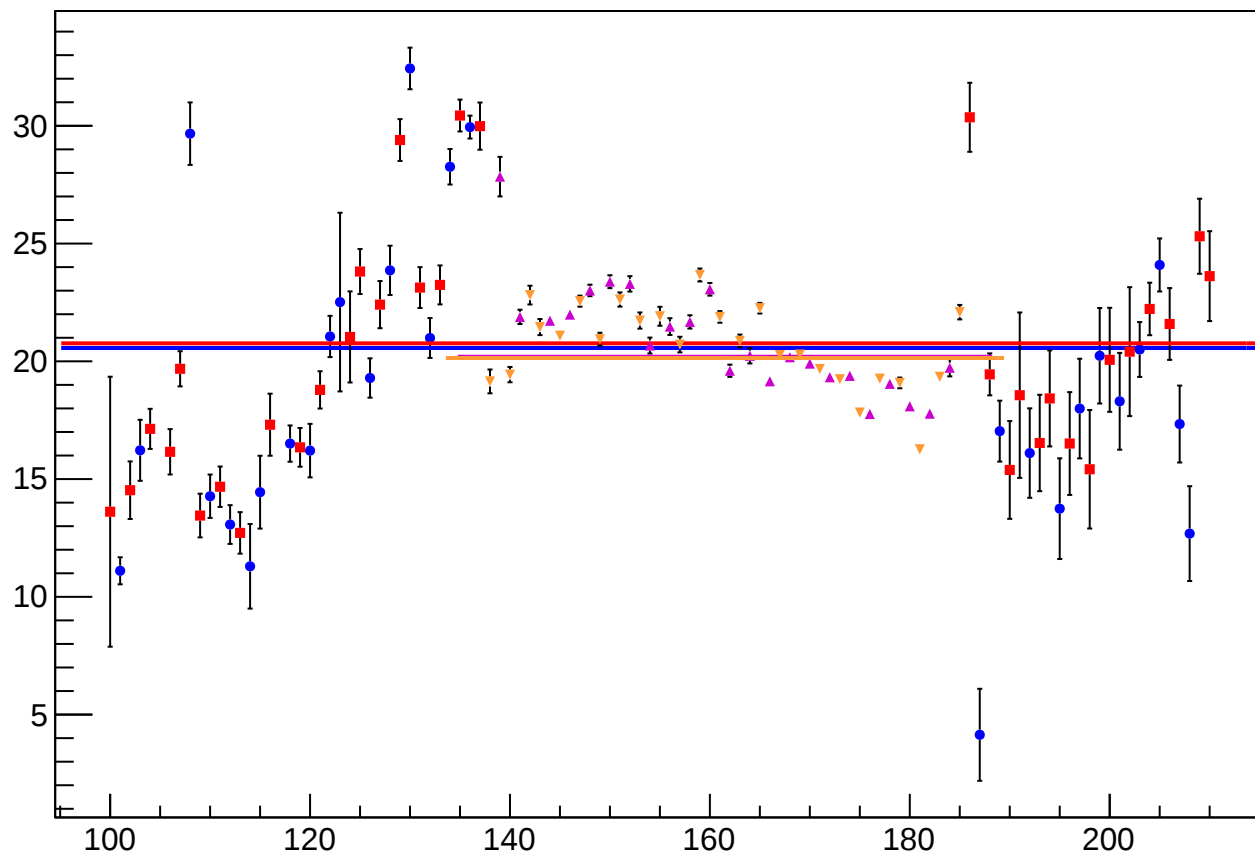
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.708 ± 0.213 $\chi^2/\text{NDF}: 2060.7/27$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -3.418 ± 0.186 $\chi^2/\text{NDF}: 4964.2/32$
 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: -1.630 ± 0.140 $\chi^2/\text{NDF}: 7237.3/60$
 In: -1.833 ± 0.050 $\chi^2/\text{NDF}: 17593.4/50$
 Out: -2.186 ± 0.050 $\chi^2/\text{NDF}: 21316.6/57$
 All: -2.011 ± 0.035 $\chi^2/\text{NDF}: 38935.2/108$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.565 $\pm$ 0.194 χ^2 /NDF: 1340.1/27

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.764 $\pm$ 0.192 χ^2 /NDF: 800.4/32

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

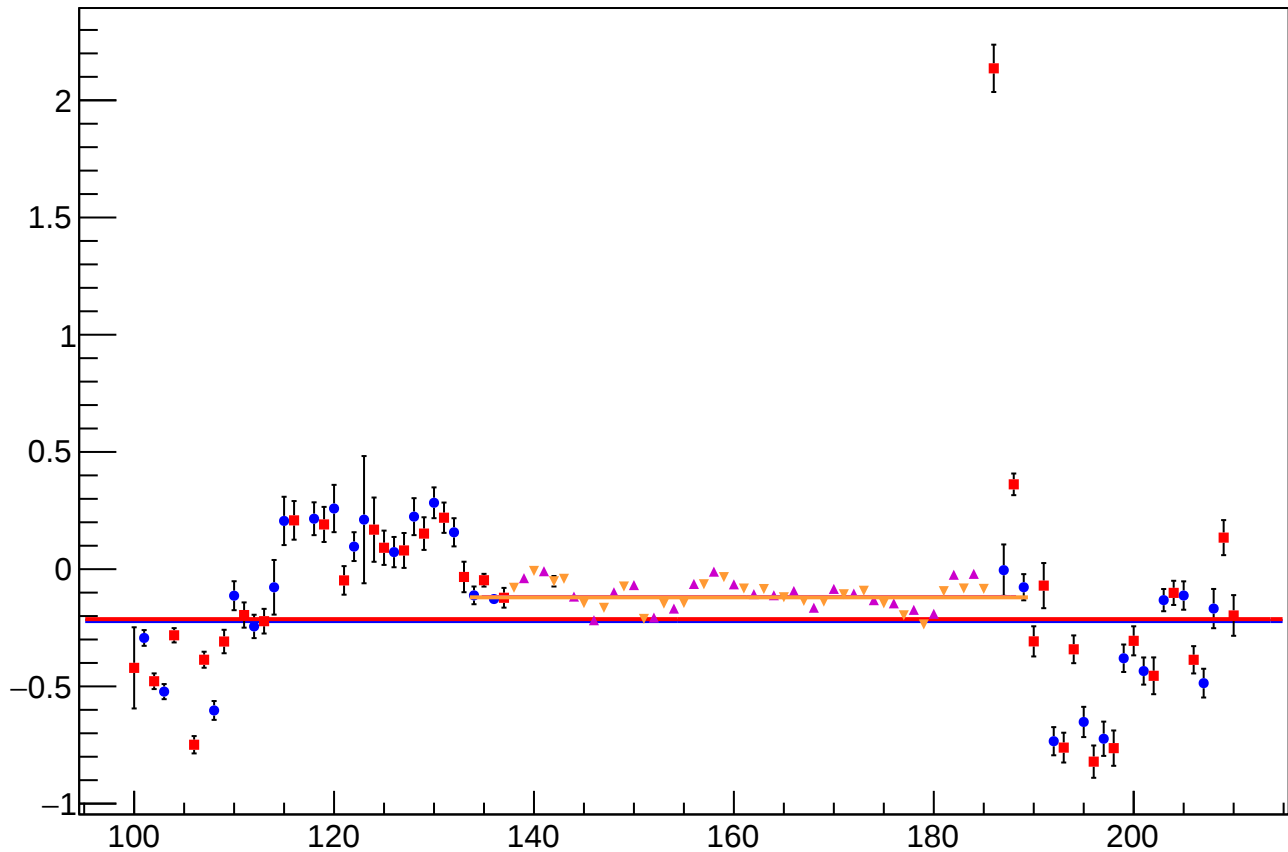
Right: 20.665 $\pm$ 0.136 χ^2 /NDF: 2141.0/60

In: 20.214 $\pm$ 0.045 χ^2 /NDF:2791.0/50

Out: 20.175 $\pm$ 0.045 χ^2 /NDF:2229.5/57

All: 20.194 $\pm$ 0.032 χ^2 /NDF: 5020.8/108

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.221 ± 0.010 χ^2/NDF : 697.8/27

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.213 ± 0.009 χ^2/NDF : 1492.2/32

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

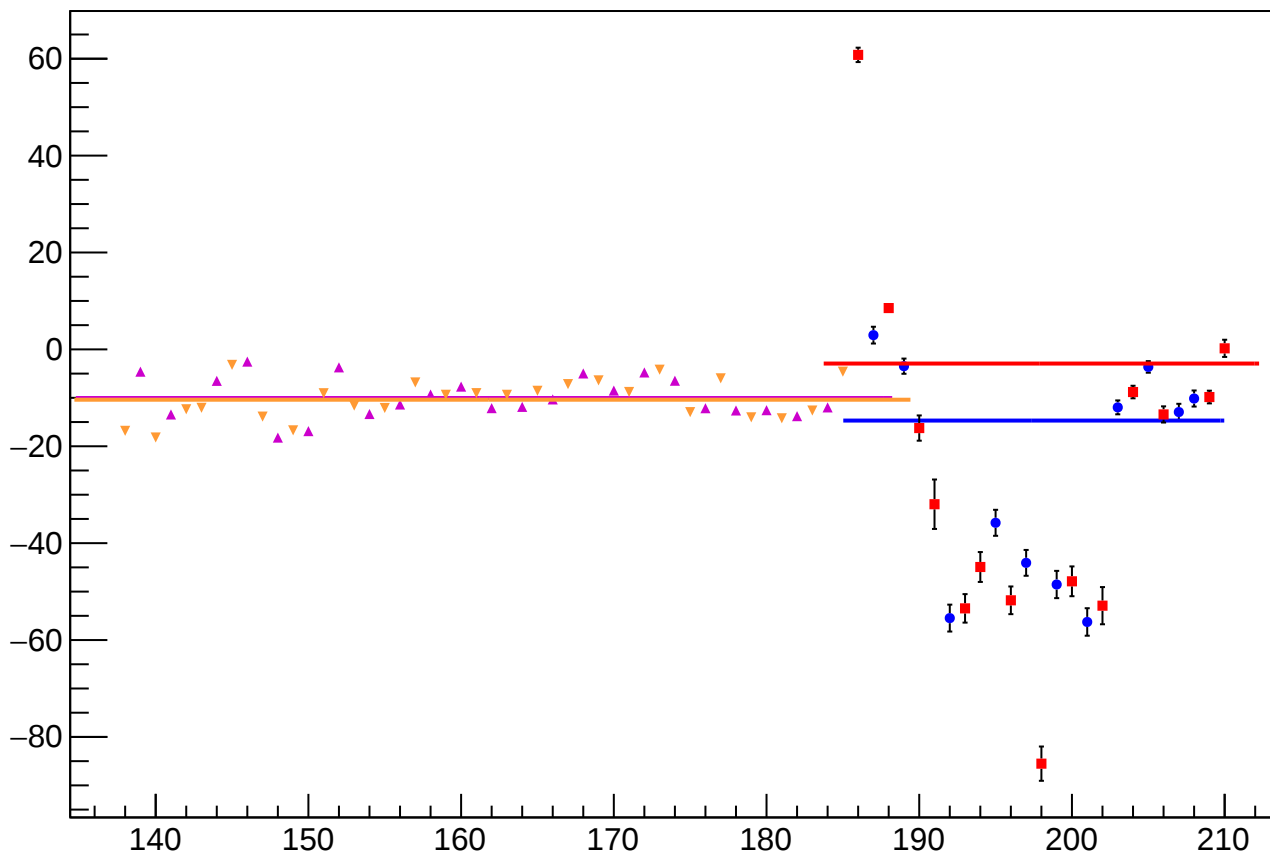
Right: -0.217 ± 0.007 χ^2/NDF : 2190.5/60

In: -0.123 ± 0.002 χ^2/NDF : 1528.2/50

Out: -0.125 ± 0.002 χ^2/NDF : 2117.6/57

All: -0.124 ± 0.001 χ^2/NDF : 3646.0/108

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.694 ± 0.551 $\chi^2/\text{NDF}: 1011.0/10$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.925 ± 0.474 $\chi^2/\text{NDF}: 3865.8/13$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

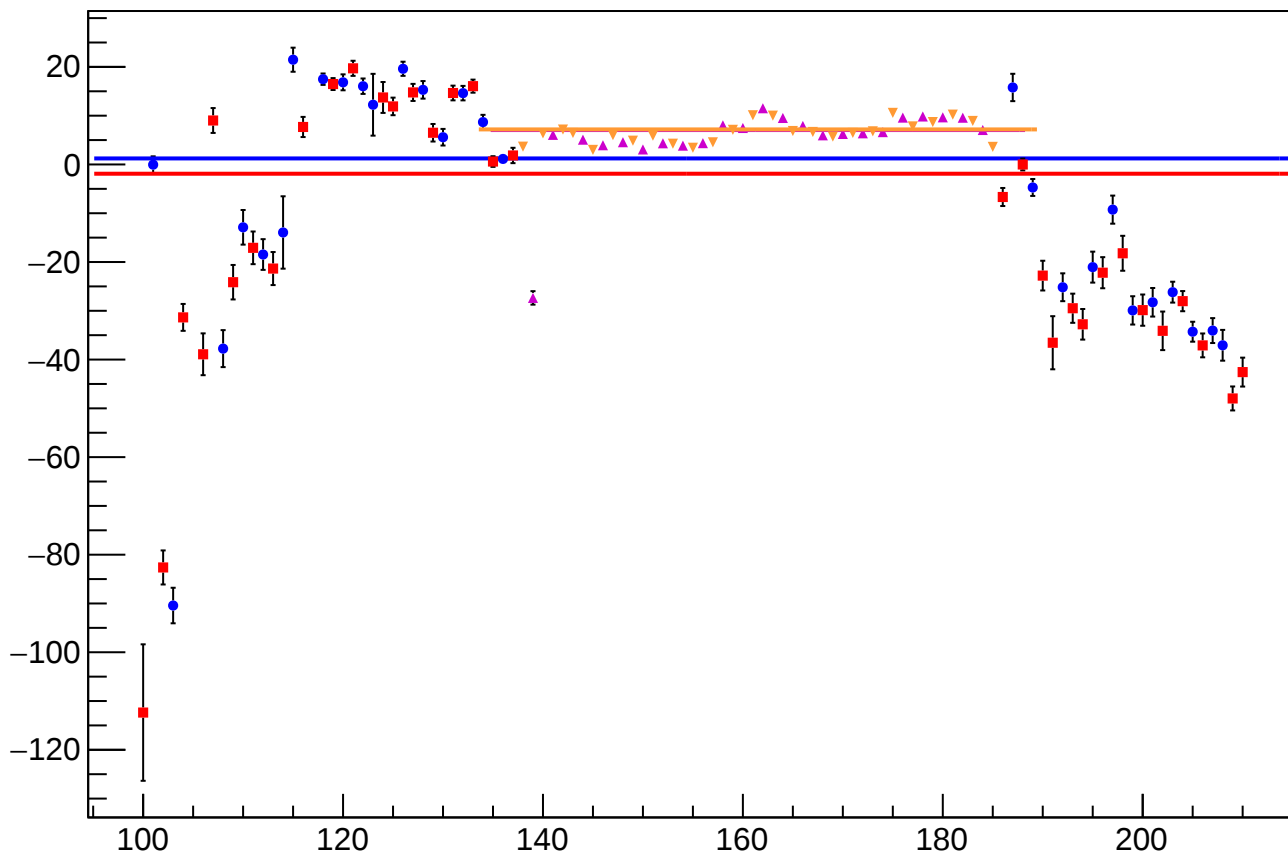
Right: -7.936 ± 0.359 $\chi^2/\text{NDF}: 5138.9/24$

In: -10.156 ± 0.088 $\chi^2/\text{NDF}: 2839.4/33$

Out: -10.143 ± 0.086 $\chi^2/\text{NDF}: 6216.8/38$

All: -10.149 ± 0.062 $\chi^2/\text{NDF}: 9056.2/72$

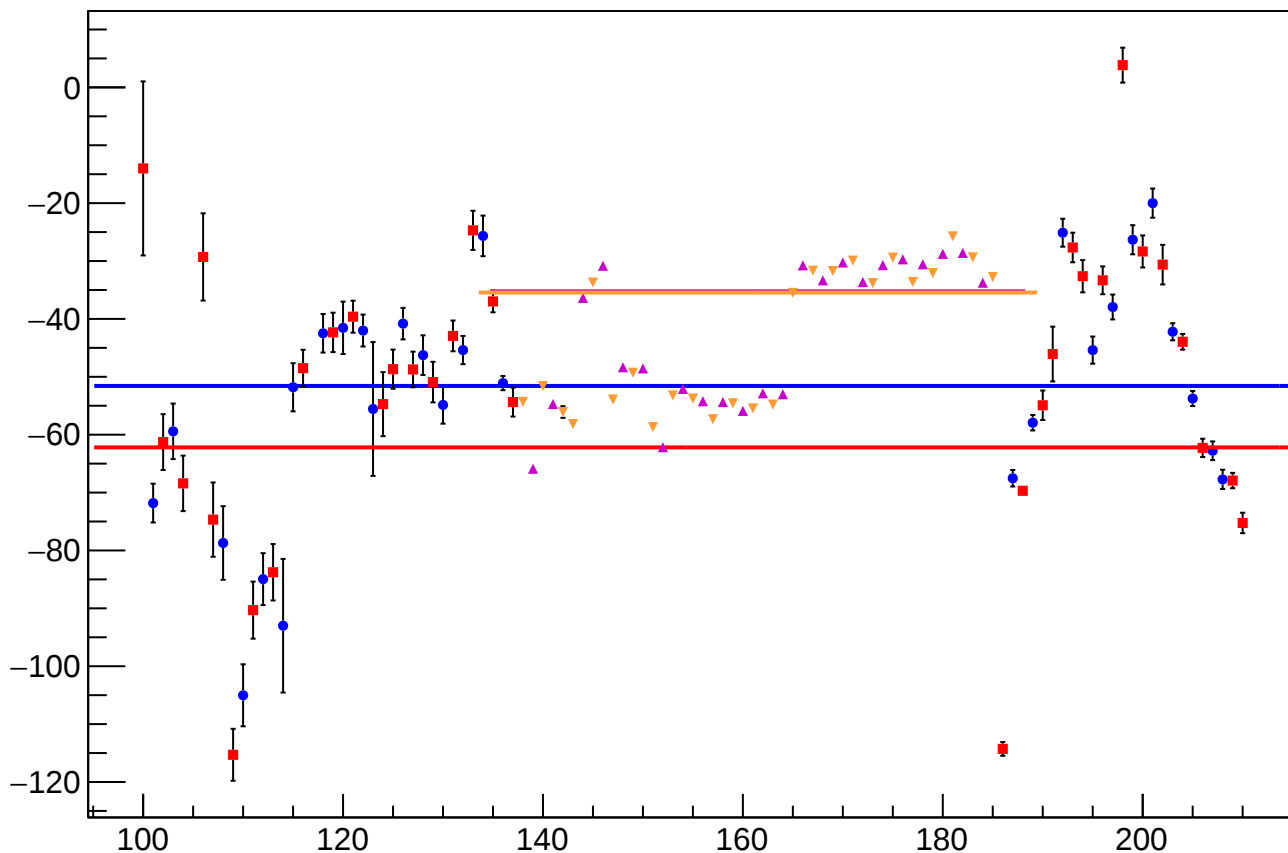
reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.235 ± 0.358 $\chi^2/\text{NDF}: 2784.8/27$
 Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$
 Right Out: -1.900 ± 0.362 $\chi^2/\text{NDF}: 3236.4/32$
 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: -0.317 ± 0.255 $\chi^2/\text{NDF}: 6059.1/60$
 In: 6.814 ± 0.073 $\chi^2/\text{NDF}: 4573.2/50$
 Out: 6.825 ± 0.072 $\chi^2/\text{NDF}: 4758.4/57$
 All: 6.819 ± 0.051 $\chi^2/\text{NDF}: 9331.7/108$

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.579 ± 0.425 χ^2/NDF : 1088.8/27

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -62.195 ± 0.374 χ^2/NDF : 4225.3/32

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

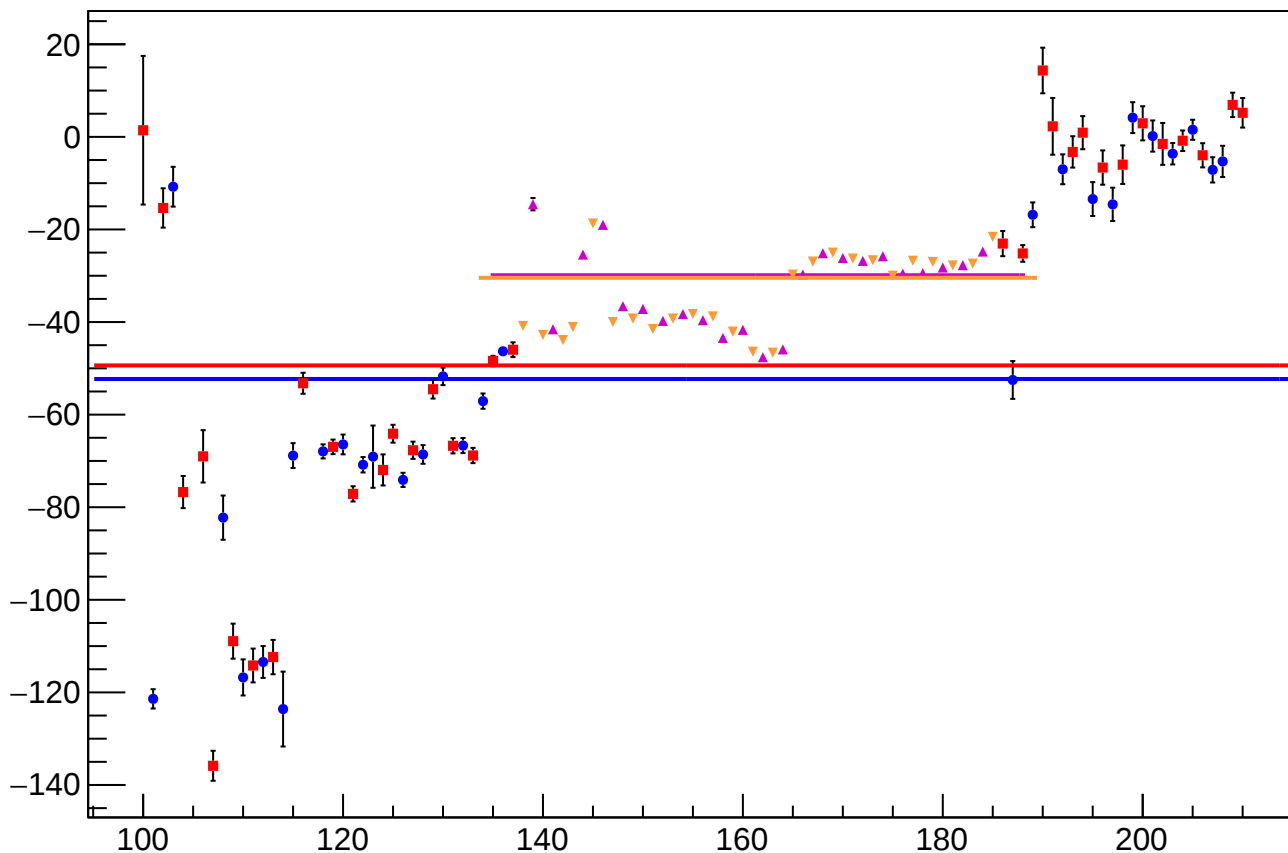
Right: -57.561 ± 0.280 χ^2/NDF : 5666.5/60

In: -35.934 ± 0.088 χ^2/NDF : 14111.2/50

Out: -36.871 ± 0.087 χ^2/NDF : 21862.4/57

All: -36.411 ± 0.062 χ^2/NDF : 36031.1/108

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

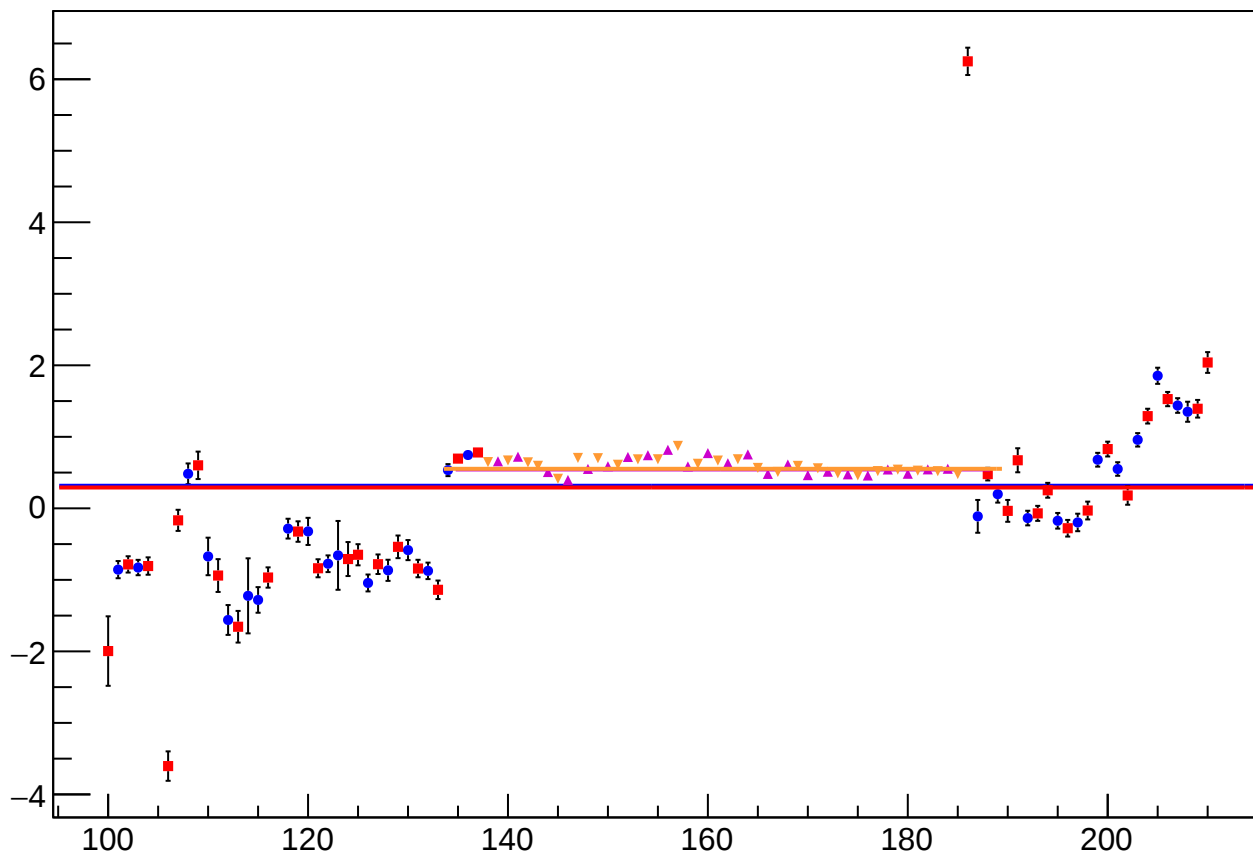
Right: -50.883 ± 0.289 $\chi^2/\text{NDF}: 10871.7/60$

In: -30.801 ± 0.081 $\chi^2/\text{NDF}: 15380.7/50$

Out: -31.150 ± 0.080 $\chi^2/\text{NDF}: 15732.3/57$

All: -30.977 ± 0.057 $\chi^2/\text{NDF}: 31122.4/108$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.020 χ^2 /NDF: 1521.8/27

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.291 $\pm$ 0.020 χ^2 /NDF: 2864.0/32

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

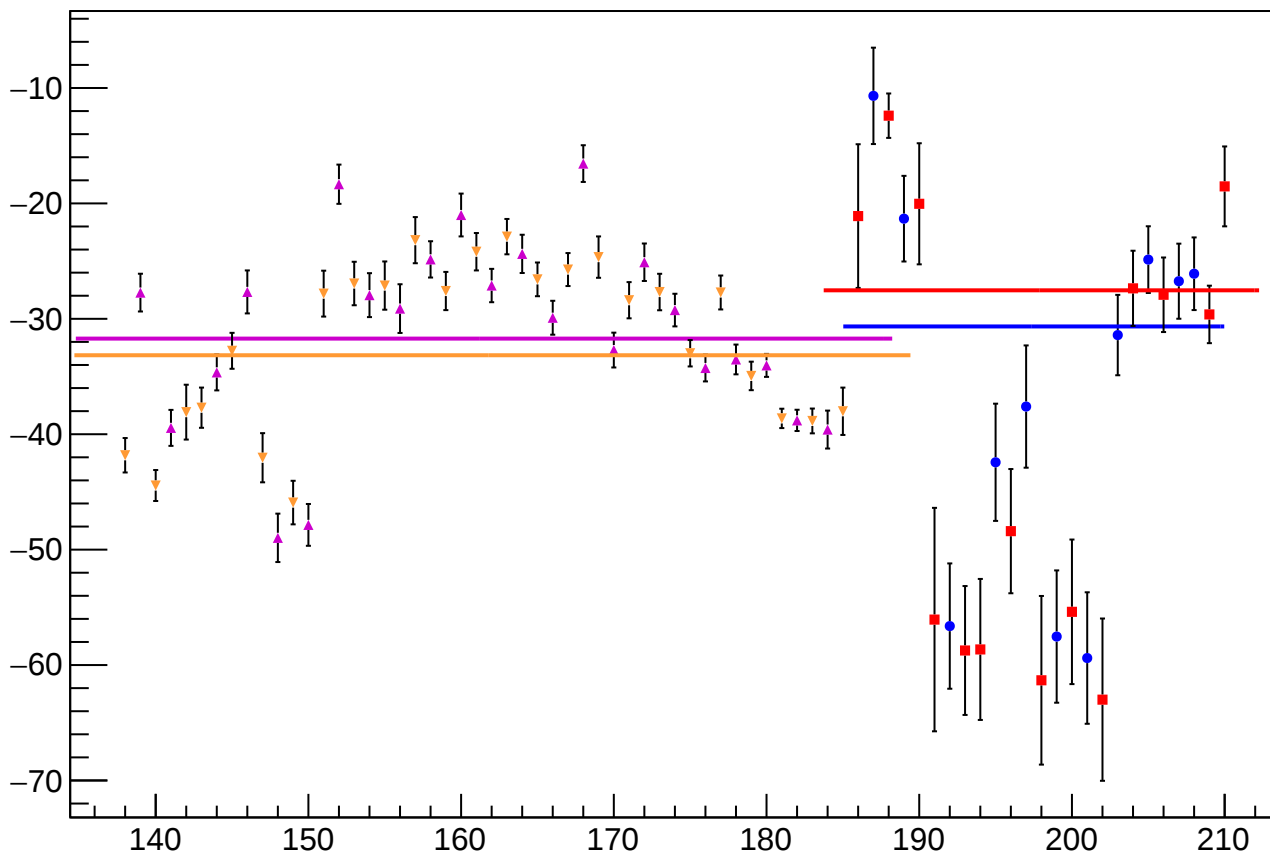
Right: 0.304 $\pm$ 0.014 χ^2 /NDF: 4386.6/60

In: 0.535 $\pm$ 0.004 χ^2 /NDF: 2308.9/50

Out: 0.544 $\pm$ 0.004 χ^2 /NDF: 3568.6/57

All: 0.540 $\pm$ 0.003 χ^2 /NDF: 5880.4/108

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.661 ± 1.198 χ^2/NDF : 114.2/10

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -27.531 ± 1.034 χ^2/NDF : 220.0/13

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

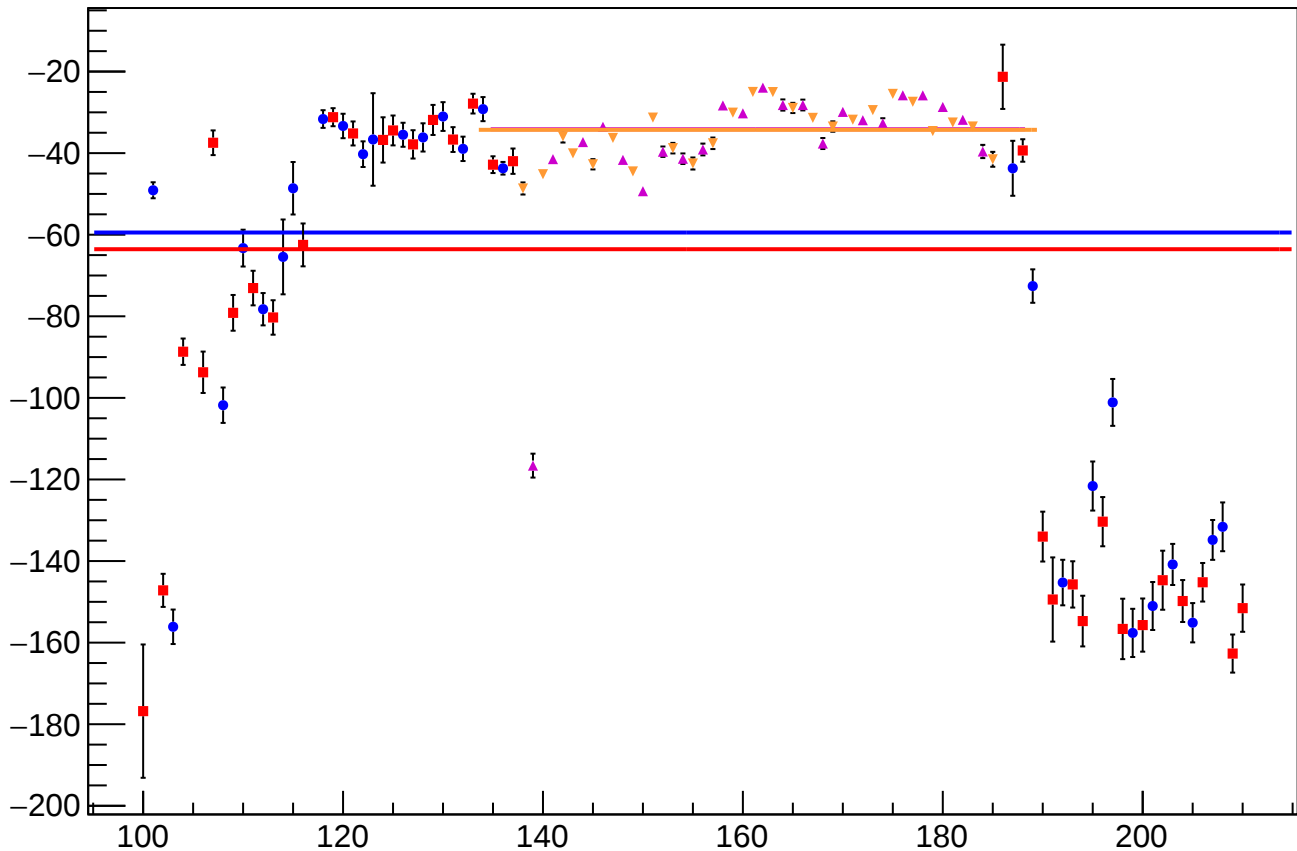
Right: -28.868 ± 0.783 χ^2/NDF : 338.1/24

In: -31.649 ± 0.299 χ^2/NDF : 657.2/33

Out: -32.719 ± 0.288 χ^2/NDF : 747.4/38

All: -32.204 ± 0.208 χ^2/NDF : 1411.2/72

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.462 ± 0.666 χ^2/NDF : 3354.9/27

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -63.553 ± 0.674 χ^2/NDF : 4244.9/32

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

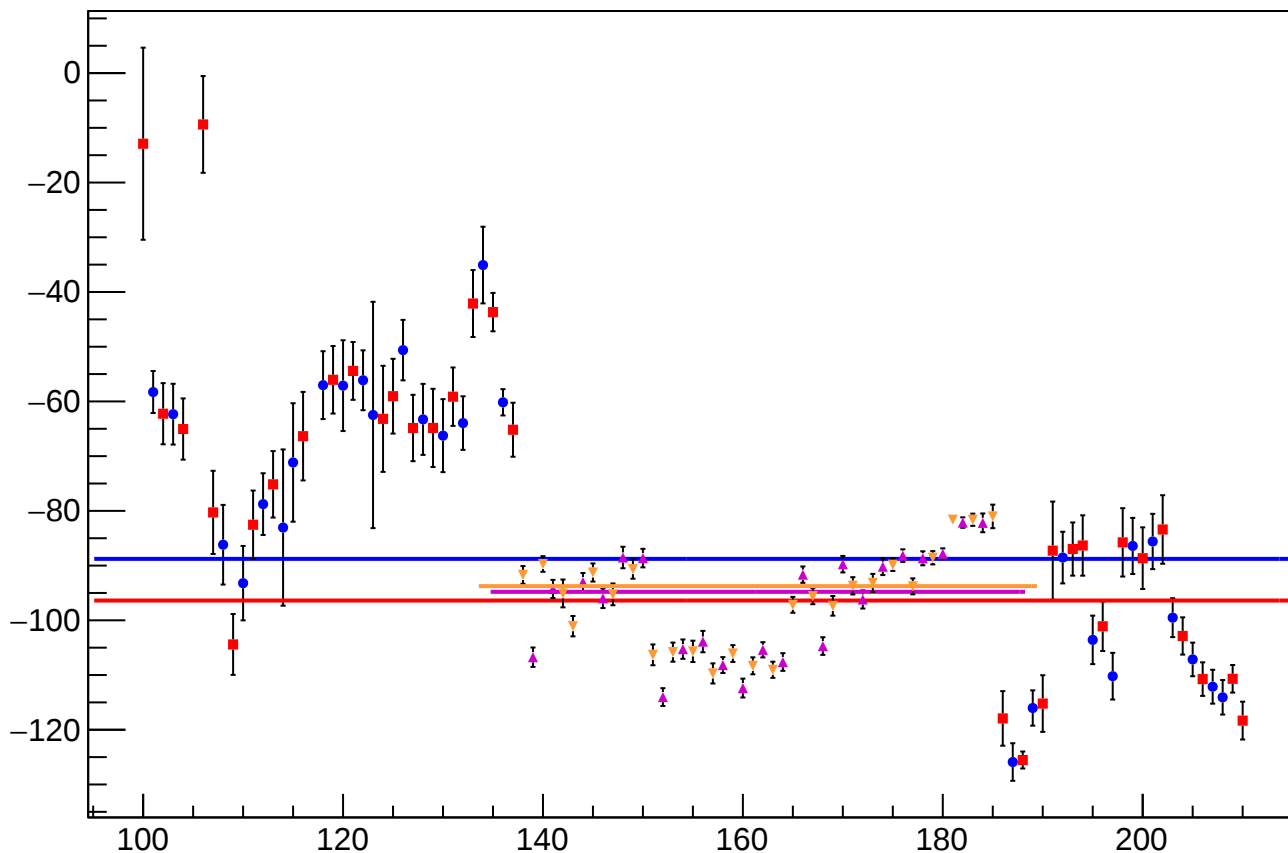
Right: -61.482 ± 0.474 χ^2/NDF : 7618.4/60

In: -37.291 ± 0.235 χ^2/NDF : 6073.6/50

Out: -37.613 ± 0.227 χ^2/NDF : 6609.4/57

All: -37.457 ± 0.163 χ^2/NDF : 12683.9/108

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -88.770 ± 0.853 χ^2/NDF : 862.9/27

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -96.381 ± 0.774 χ^2/NDF : 1314.3/32

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

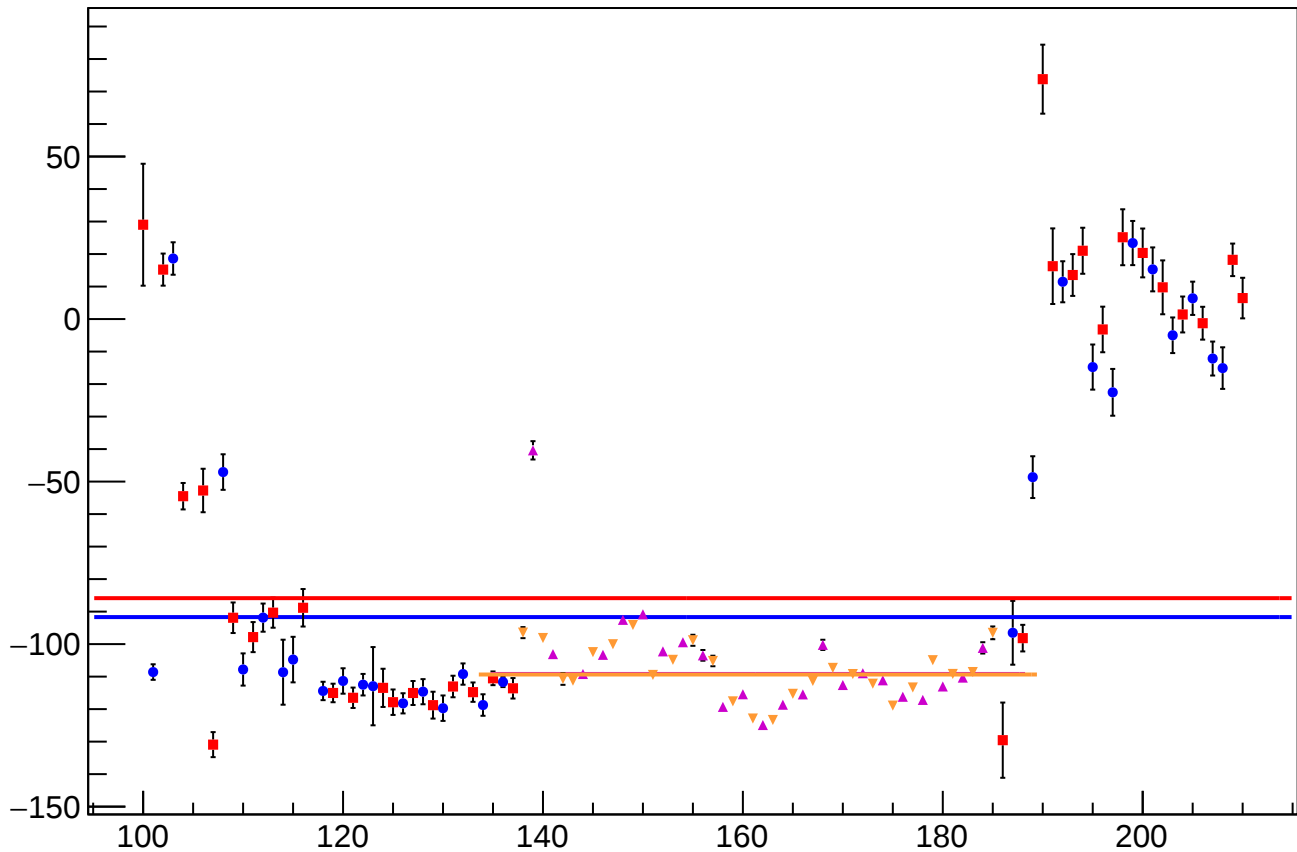
Right: -92.942 ± 0.573 χ^2/NDF : 2220.9/60

In: -94.099 ± 0.290 χ^2/NDF : 1881.8/50

Out: -94.100 ± 0.281 χ^2/NDF : 2207.4/57

All: -94.100 ± 0.202 χ^2/NDF : 4089.1/108

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -91.686 ± 0.752 χ^2/NDF : 3230.7/27

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -85.864 ± 0.773 χ^2/NDF : 4092.2/32

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

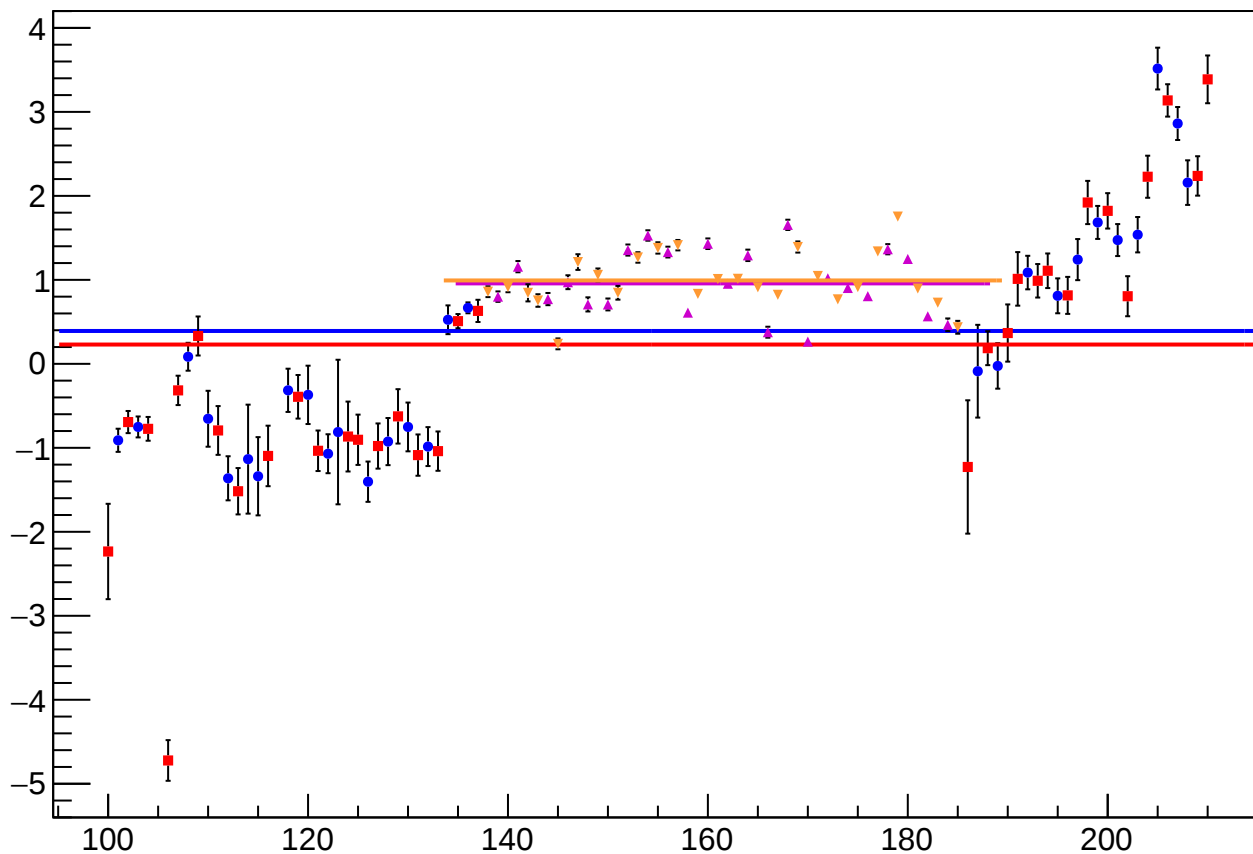
Right: -88.855 ± 0.539 χ^2/NDF : 7352.1/60

In: -107.054 ± 0.262 χ^2/NDF : 5207.6/50

Out: -106.774 ± 0.256 χ^2/NDF : 5741.8/57

All: -106.911 ± 0.183 χ^2/NDF : 10950.0/108

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.391 ± 0.036 $\chi^2/\text{NDF}: 949.1/27$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.230 ± 0.036 $\chi^2/\text{NDF}: 1414.8/32$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

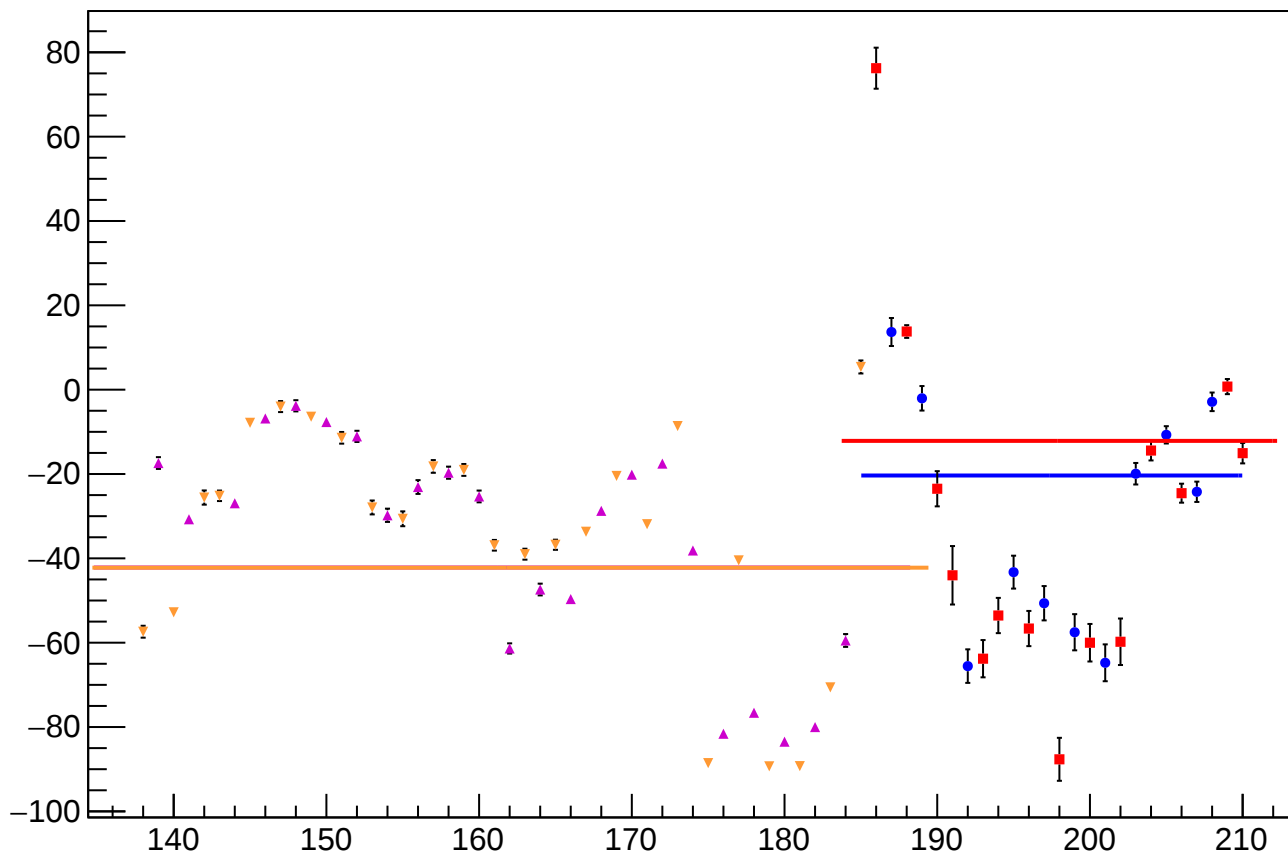
Right: 0.311 ± 0.026 $\chi^2/\text{NDF}: 2373.9/60$

In: 0.895 ± 0.012 $\chi^2/\text{NDF}: 2064.4/50$

Out: 0.913 ± 0.012 $\chi^2/\text{NDF}: 2448.7/57$

All: 0.904 ± 0.008 $\chi^2/\text{NDF}: 4514.2/108$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.354 ± 0.886 χ^2/NDF : 629.5/10

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -12.143 ± 0.765 χ^2/NDF : 1496.7/13

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

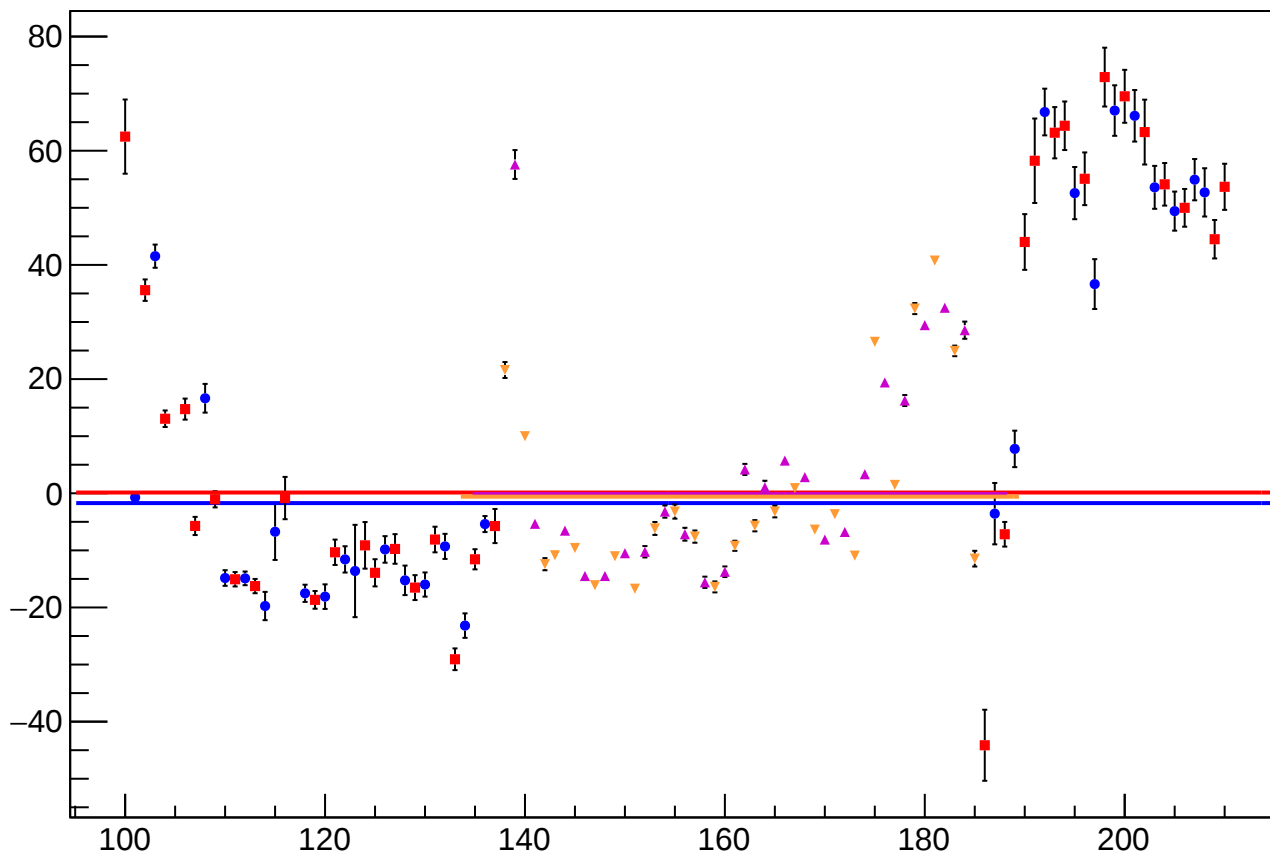
Right: -15.651 ± 0.579 χ^2/NDF : 2175.3/24

In: -40.831 ± 0.220 χ^2/NDF : 15774.7/33

Out: -39.878 ± 0.213 χ^2/NDF : 21229.9/38

All: -40.340 ± 0.153 χ^2/NDF : 37014.3/72

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.718 ± 0.406 χ^2/NDF : 2992.6/27

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: 0.132 ± 0.398 χ^2/NDF : 3604.6/32

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

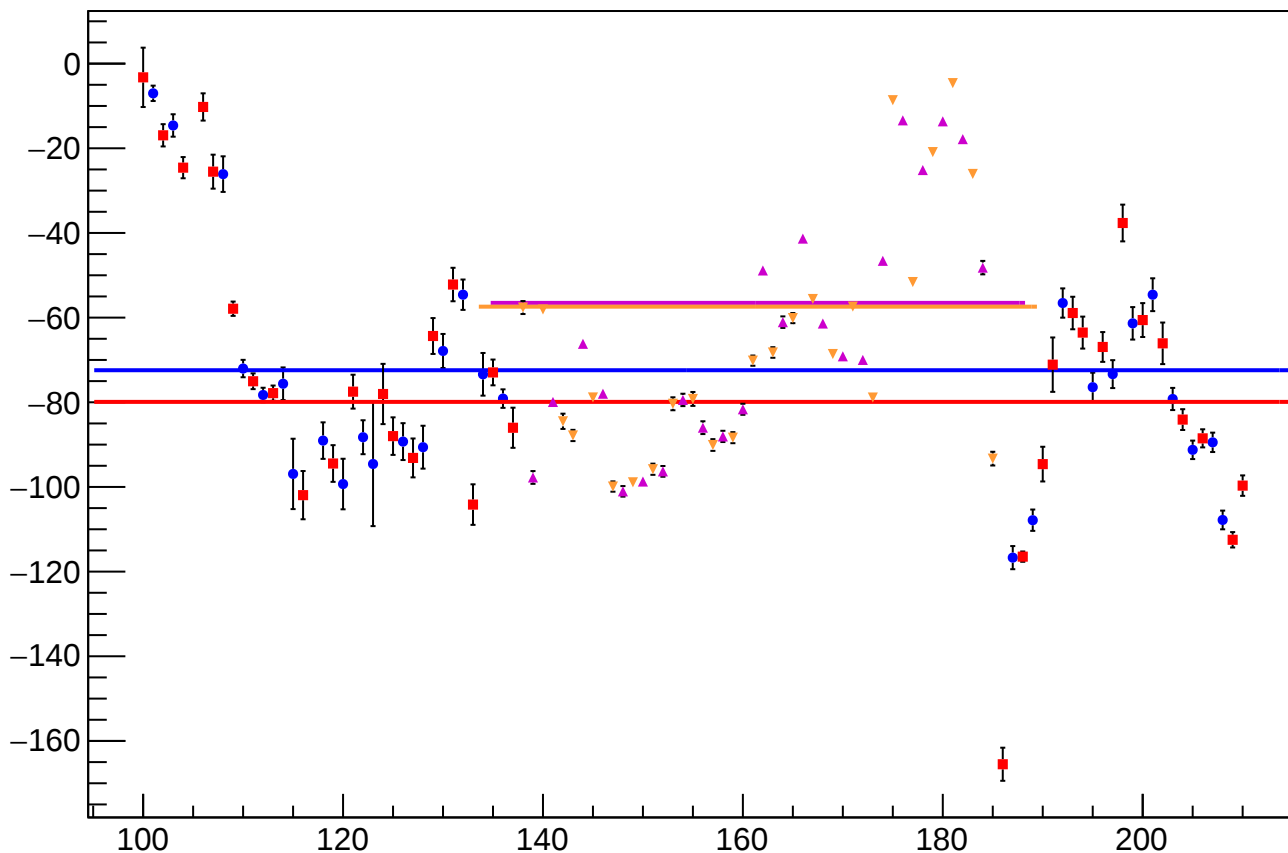
Right: -0.776 ± 0.284 χ^2/NDF : 6607.8/60

In: -0.399 ± 0.164 χ^2/NDF : 9867.7/50

Out: -0.474 ± 0.160 χ^2/NDF : 12358.3/57

All: -0.437 ± 0.114 χ^2/NDF : 22226.1/108

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.428 ± 0.556 χ^2/NDF : 2936.5/27

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -79.906 ± 0.496 χ^2/NDF : 4133.7/32

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

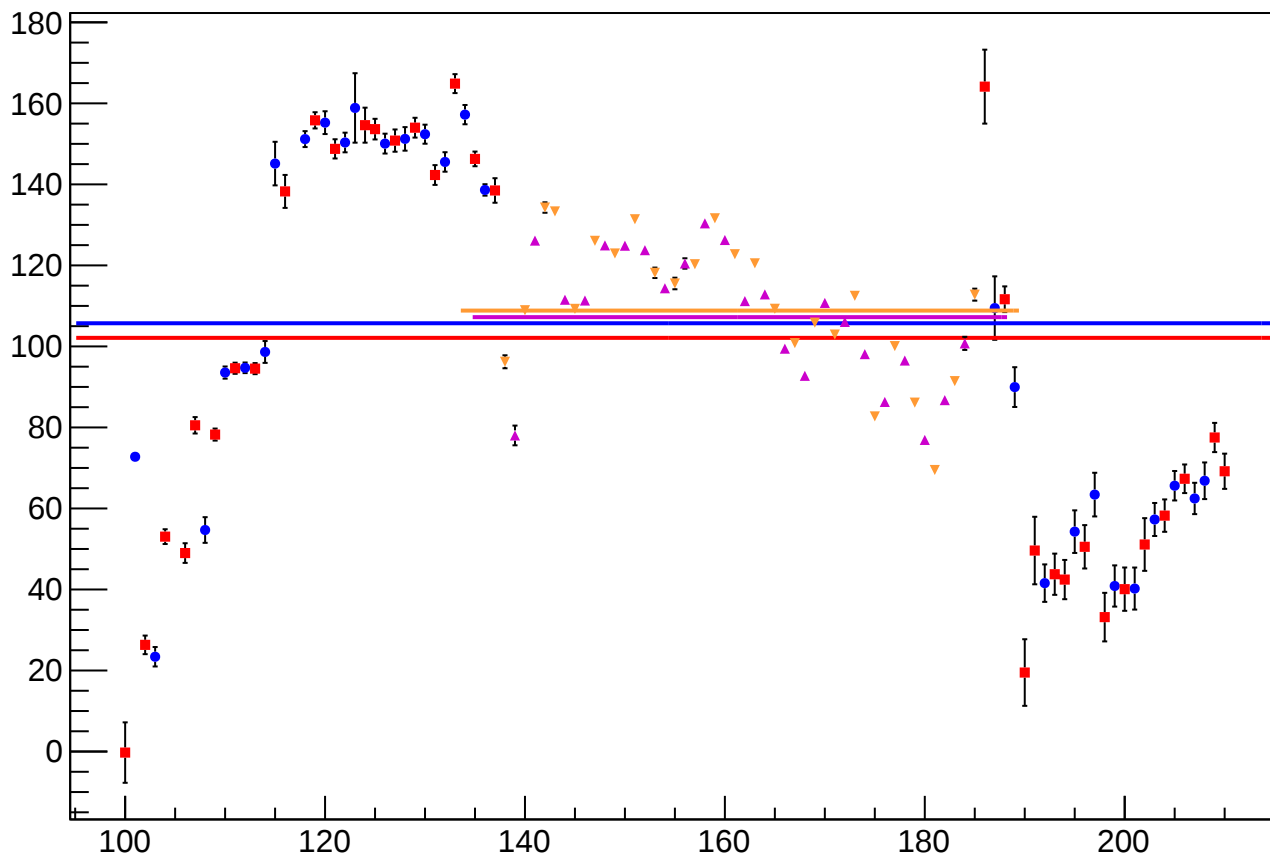
Right: -76.597 ± 0.370 χ^2/NDF : 7170.9/60

In: -58.790 ± 0.210 χ^2/NDF : 19989.8/50

Out: -61.204 ± 0.204 χ^2/NDF : 24449.2/57

All: -60.036 ± 0.146 χ^2/NDF : 44507.1/108

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 105.717 $\pm$ 0.463 χ^2/NDF : 7130.0/27

Left Out: 108.846 $\pm$ 0.197 χ^2/NDF : 7400.2/24

Right Out: 102.114 $\pm$ 0.456 χ^2/NDF : 8373.1/32

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

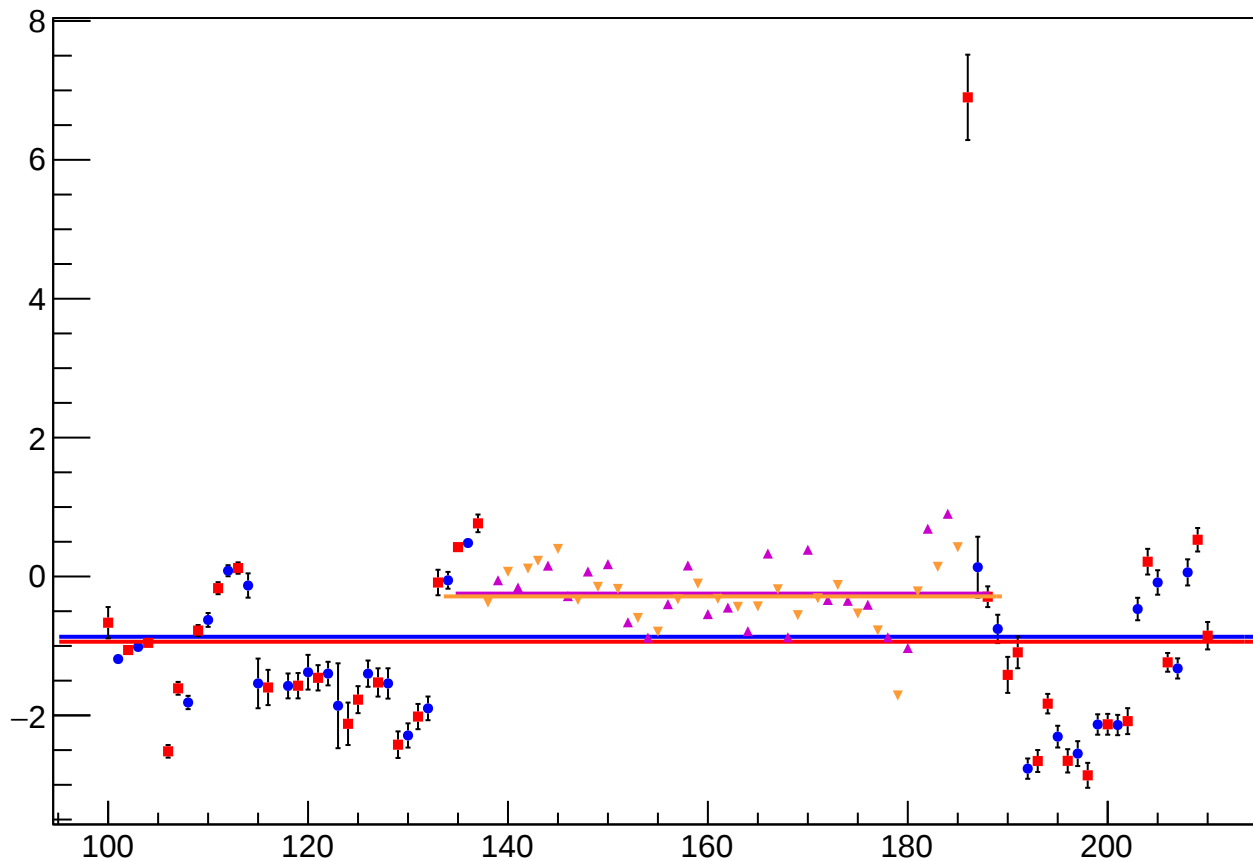
Right: 103.889 $\pm$ 0.325 χ^2/NDF : 15533.9/60

In: 106.983 $\pm$ 0.185 χ^2/NDF : 12704.2/50

Out: 107.784 $\pm$ 0.181 χ^2/NDF : 15957.0/57

All: 107.393 $\pm$ 0.130 χ^2/NDF : 28670.8/108

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.868 ± 0.023 χ^2/NDF : 1591.3/27

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.939 ± 0.022 χ^2/NDF : 2110.9/32

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

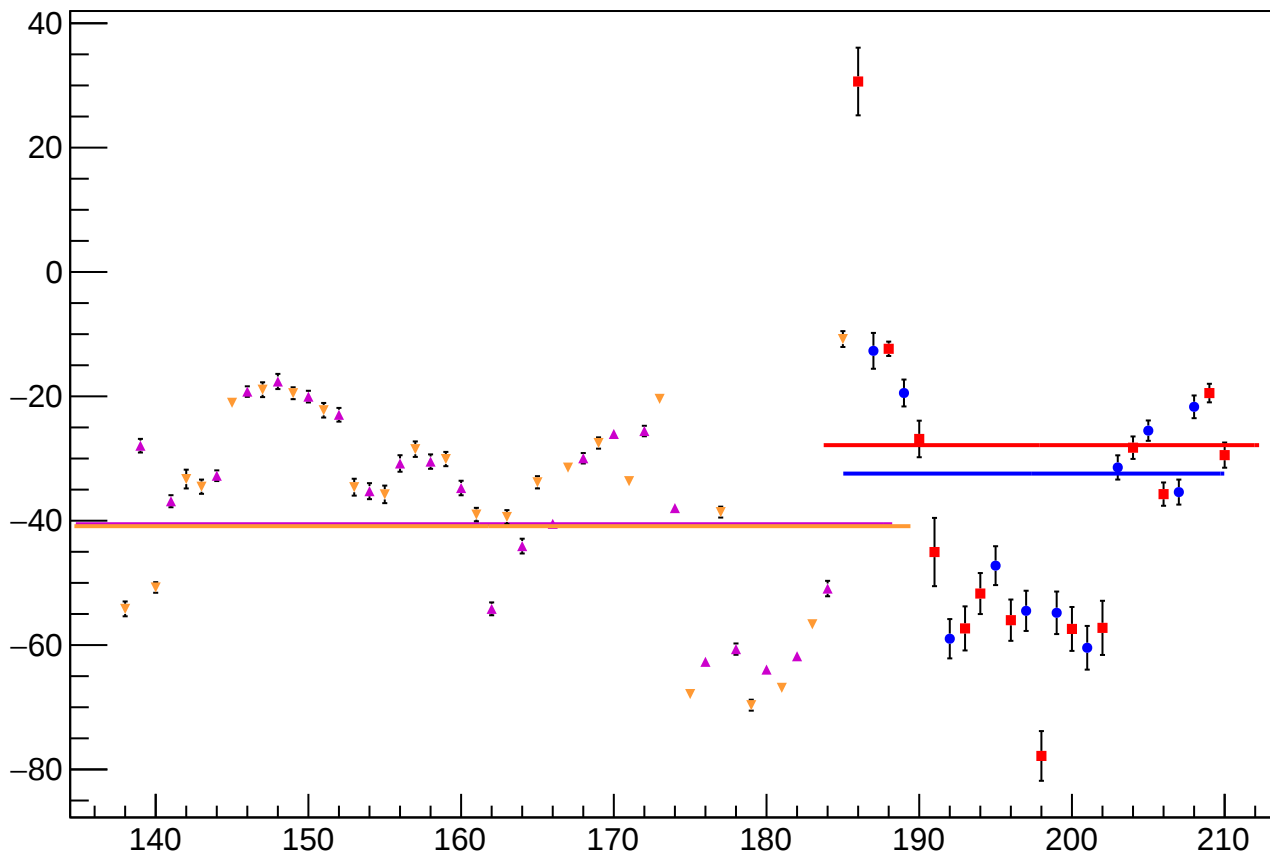
Right: -0.906 ± 0.016 χ^2/NDF : 3707.2/60

In: -0.333 ± 0.009 χ^2/NDF : 5010.7/50

Out: -0.385 ± 0.008 χ^2/NDF : 4937.8/57

All: -0.359 ± 0.006 χ^2/NDF : 9966.9/108

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.422 ± 0.710 χ^2/NDF : 383.6/10

Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24

Right Out: -27.848 ± 0.611 χ^2/NDF : 820.6/13

Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47

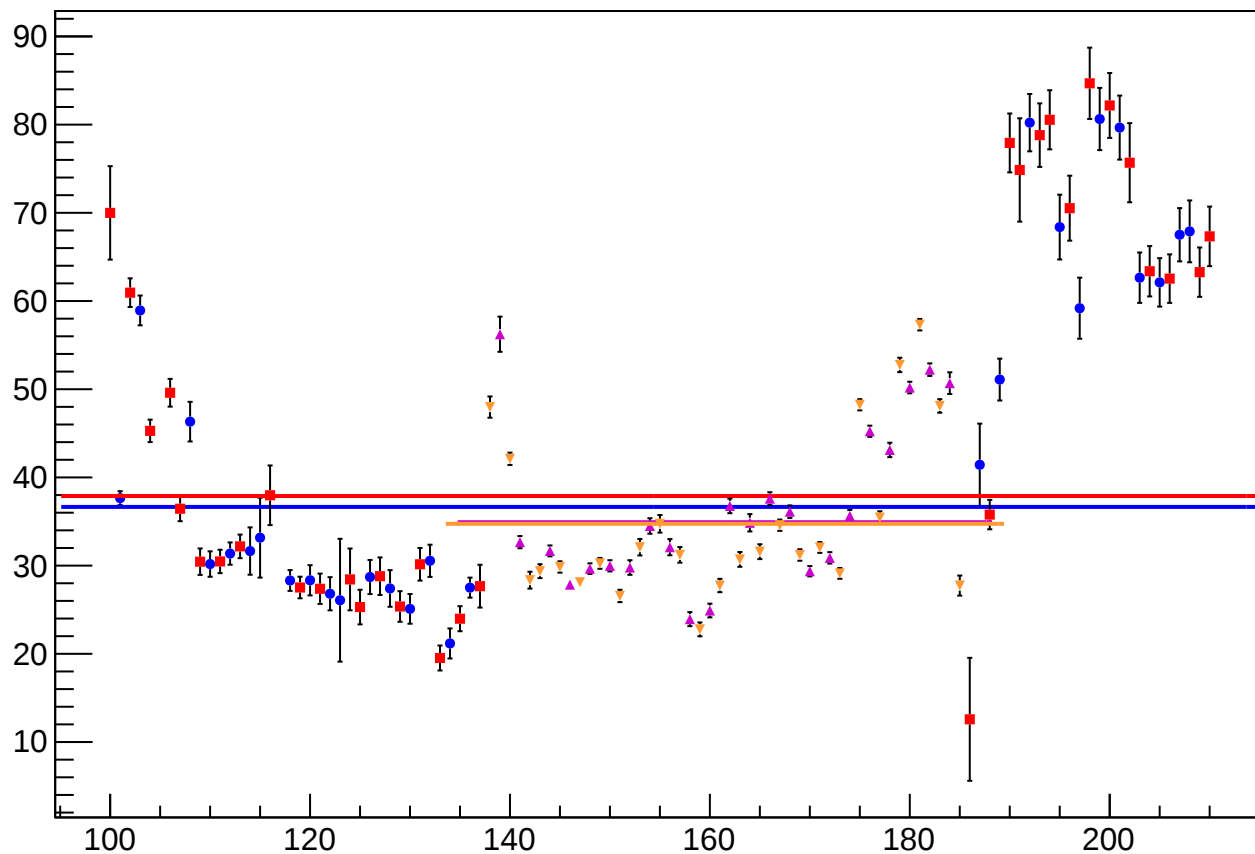
Right: -29.795 ± 0.463 χ^2/NDF : 1228.0/24

In: -40.024 ± 0.183 χ^2/NDF : 7461.0/33

Out: -39.775 ± 0.178 χ^2/NDF : 10359.5/38

All: -39.895 ± 0.128 χ^2/NDF : 17821.5/72

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 36.657 ± 0.350 $\chi^2/\text{NDF}: 1564.3/27$

Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$

Right Out: 37.890 ± 0.346 $\chi^2/\text{NDF}: 2165.7/32$

Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$

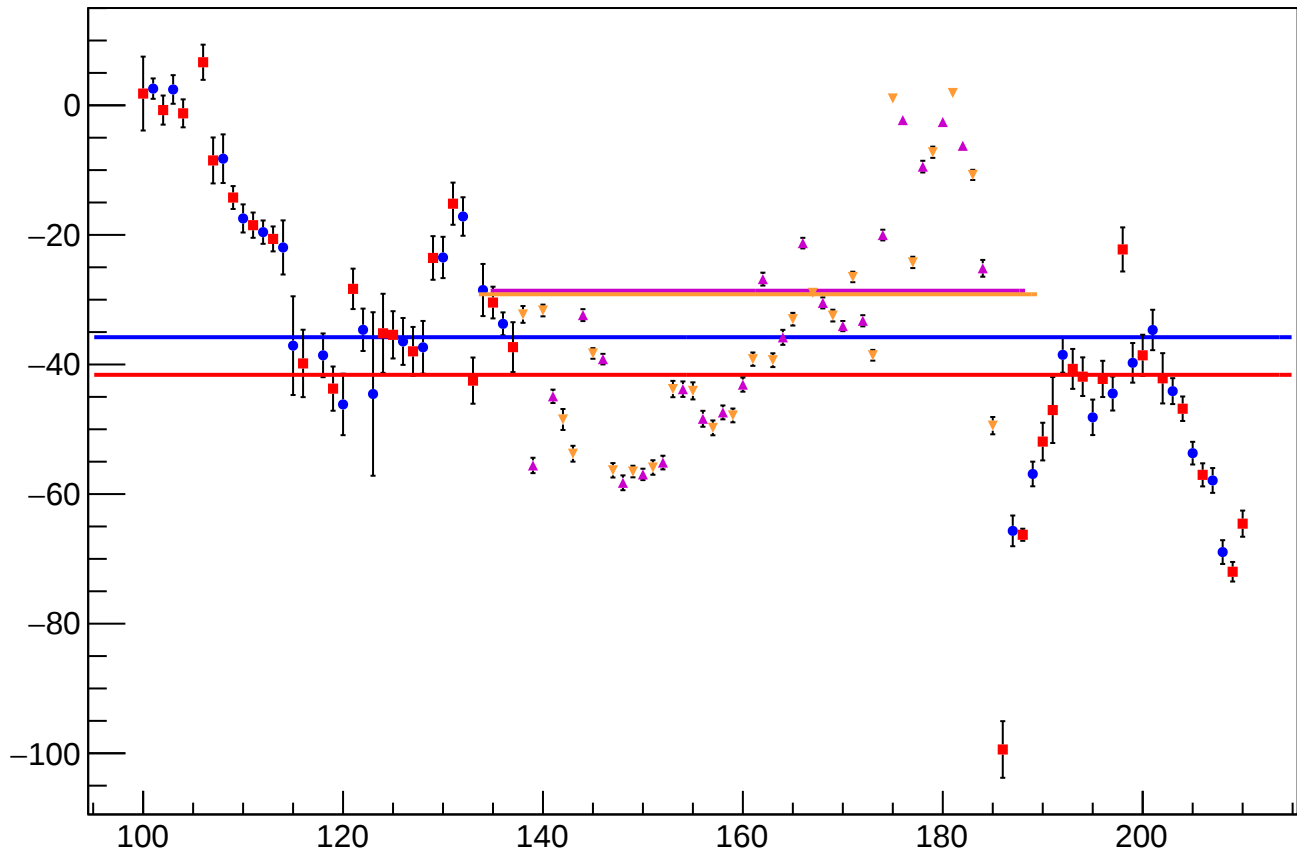
Right: 37.280 ± 0.246 $\chi^2/\text{NDF}: 3736.3/60$

In: 35.196 ± 0.139 $\chi^2/\text{NDF}: 4257.8/50$

Out: 35.224 ± 0.136 $\chi^2/\text{NDF}: 5928.9/57$

All: 35.210 ± 0.097 $\chi^2/\text{NDF}: 10186.8/108$

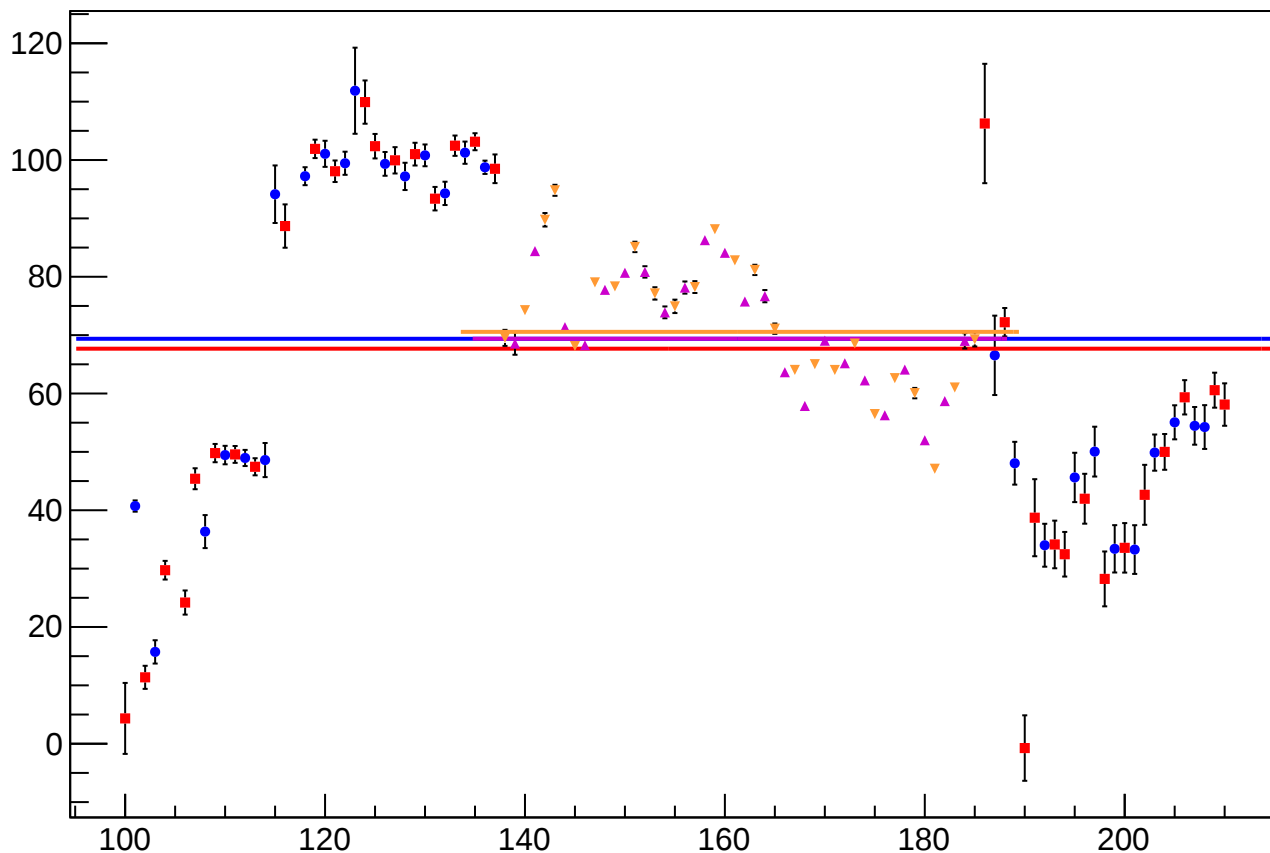
reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -35.788 ± 0.474 χ^2/NDF : 2074.7/27
 Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24
 Right Out: -41.595 ± 0.421 χ^2/NDF : 3318.5/32
 Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47
 Right: -39.031 ± 0.315 χ^2/NDF : 5477.1/60
 In: -29.609 ± 0.176 χ^2/NDF : 11313.2/50
 Out: -31.211 ± 0.171 χ^2/NDF : 14172.5/57
 All: -30.434 ± 0.123 χ^2/NDF : 25528.3/108

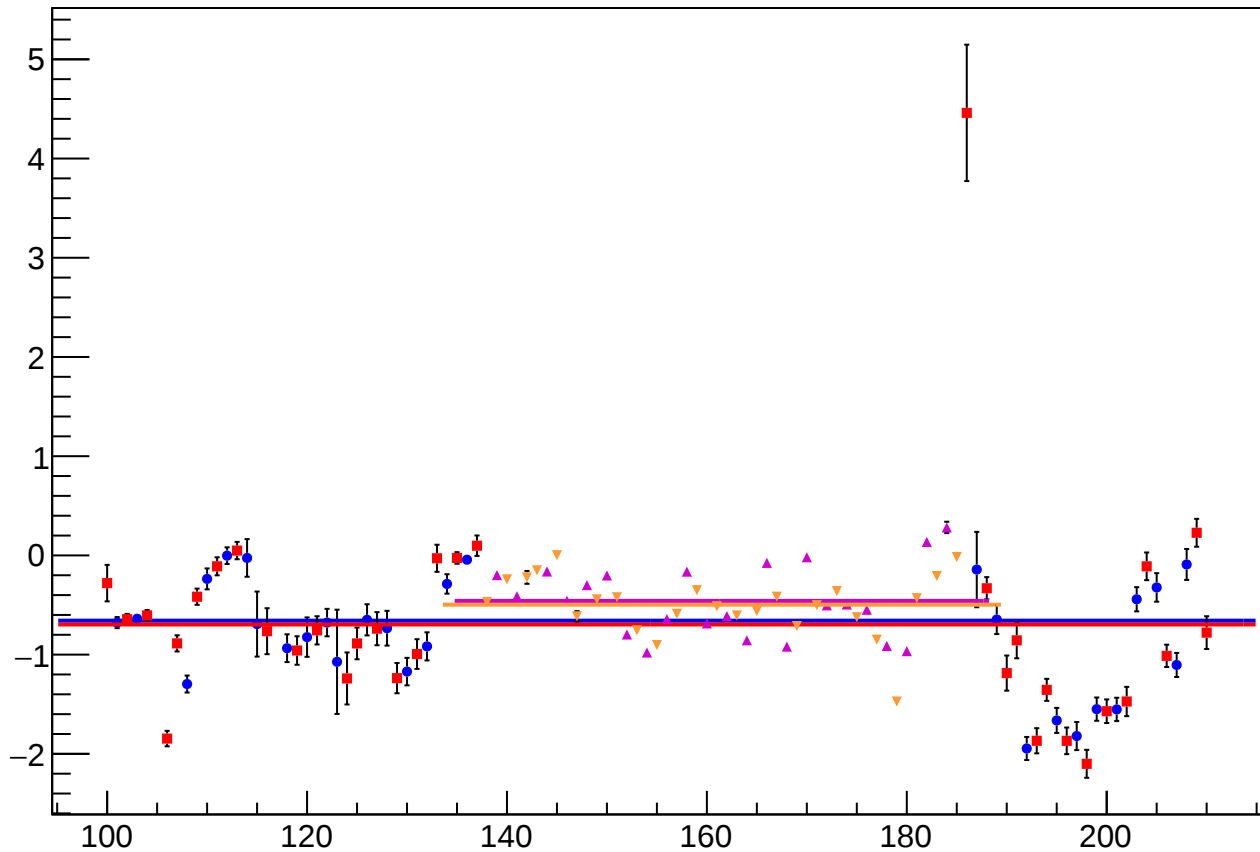
reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.375 ± 0.401 χ^2/NDF : 5159.8/27
 Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24
 Right Out: 67.678 ± 0.399 χ^2/NDF : 6133.2/32
 Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47
 Right: 68.523 ± 0.283 χ^2/NDF : 11302.0/60
 In: 69.385 ± 0.157 χ^2/NDF : 8481.6/50
 Out: 70.136 ± 0.153 χ^2/NDF : 10766.9/57
 All: 69.769 ± 0.110 χ^2/NDF : 19260.2/108

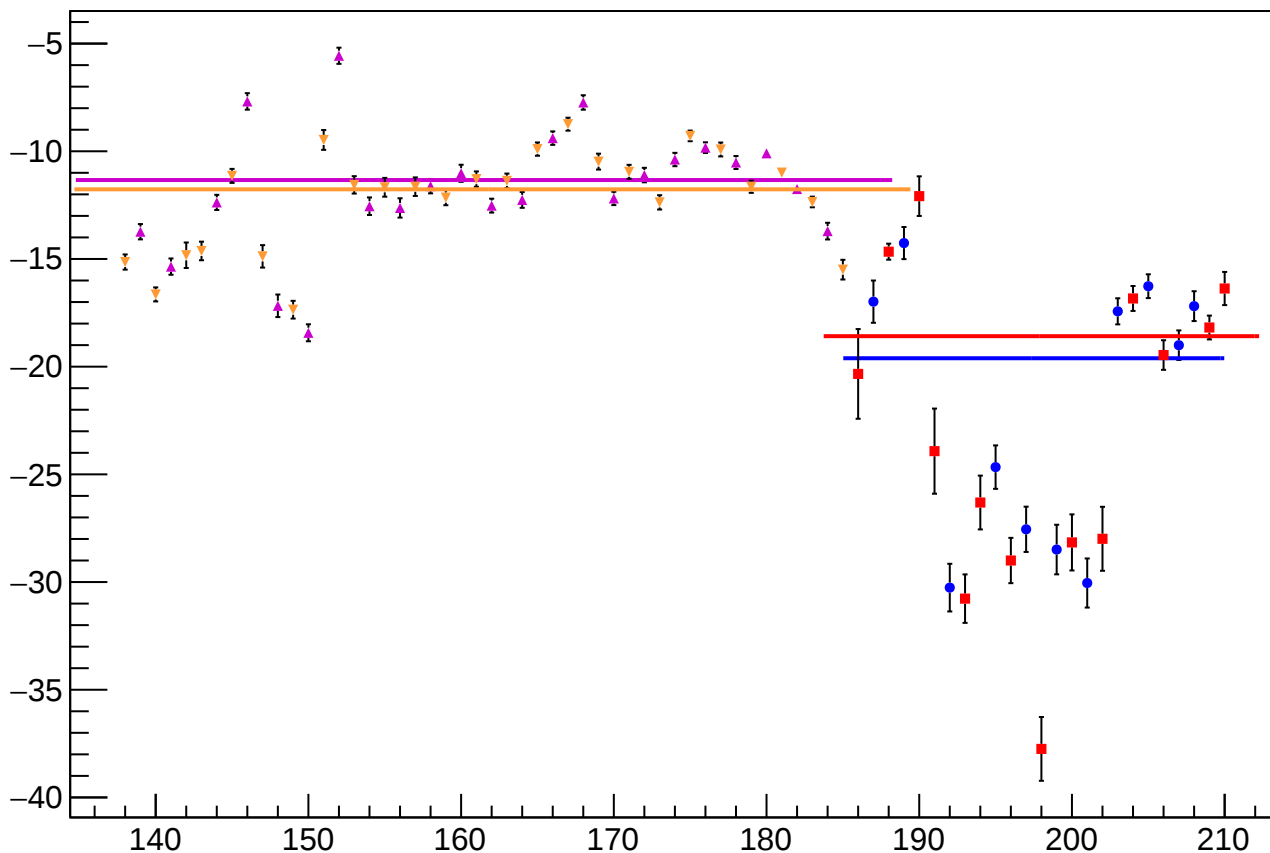
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.658 ± 0.020 χ^2/NDF : 759.5/27
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.696 ± 0.019 χ^2/NDF : 1121.9/32
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.678 ± 0.013 χ^2/NDF : 1883.4/60
 In: -0.486 ± 0.007 χ^2/NDF : 2807.2/50
 Out: -0.525 ± 0.007 χ^2/NDF : 2670.3/57
 All: -0.506 ± 0.005 χ^2/NDF : 5493.1/108

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected

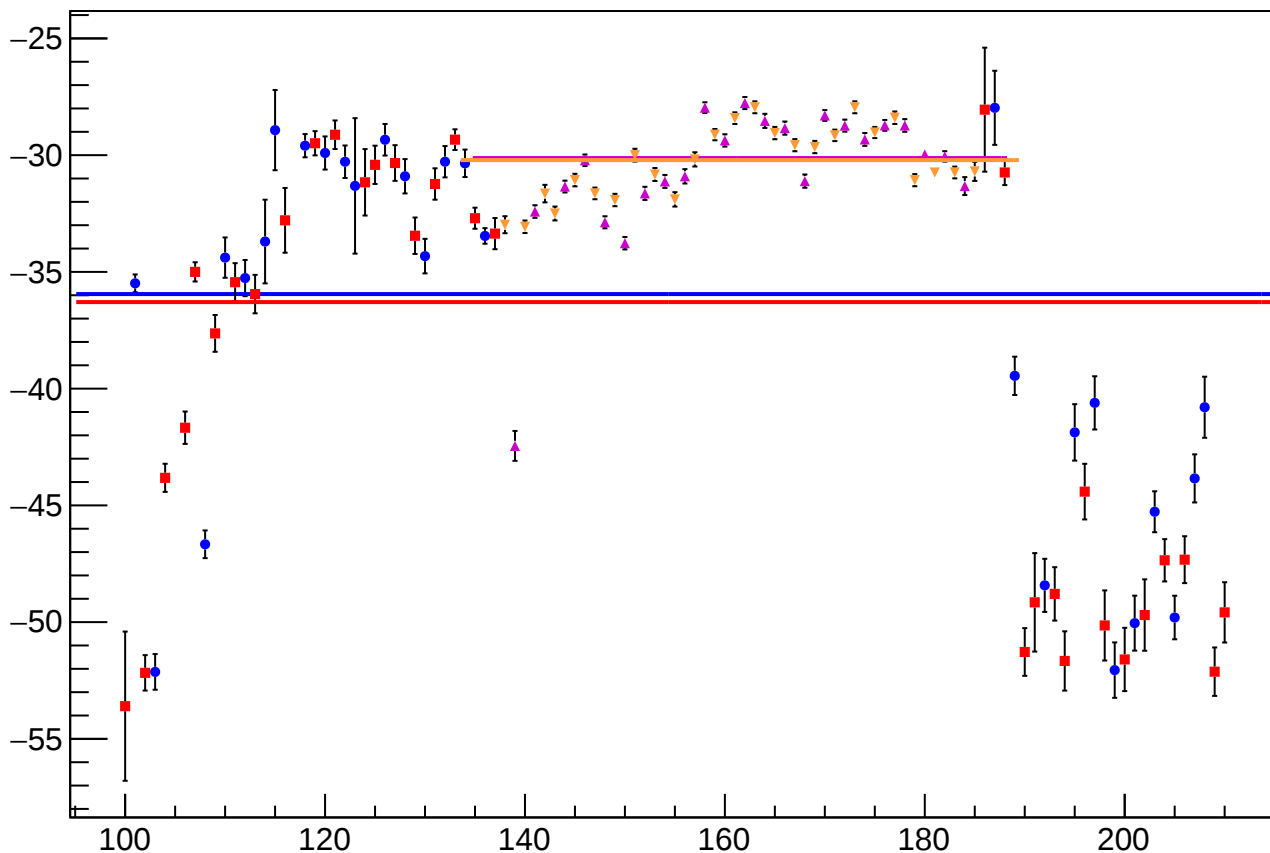


Right In: -19.609 ± 0.241 χ^2/NDF : 439.4/10
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -18.585 ± 0.210 χ^2/NDF : 703.9/13
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -19.027 ± 0.158 χ^2/NDF : 1153.6/24
 In: -11.949 ± 0.065 χ^2/NDF : 2803.9/33
 Out: -12.394 ± 0.064 χ^2/NDF : 2686.3/38

All: -12.178 ± 0.046 χ^2/NDF : 5514.0/72

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.950 ± 0.138 $\chi^2/\text{NDF}: 2407.1/27$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.293 ± 0.134 $\chi^2/\text{NDF}: 3116.0/32$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

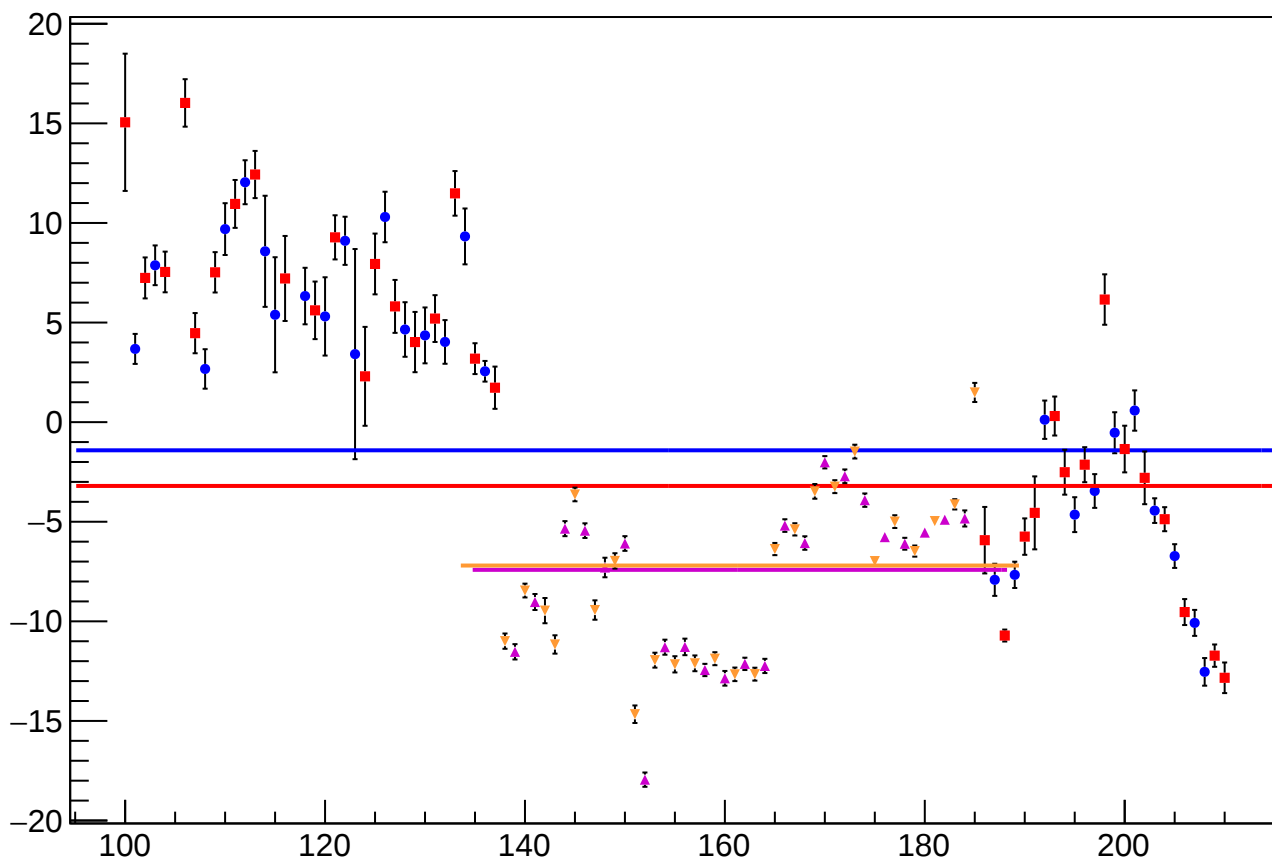
Right: -36.126 ± 0.096 $\chi^2/\text{NDF}: 5526.3/60$

In: -30.939 ± 0.051 $\chi^2/\text{NDF}: 5175.1/50$

Out: -31.060 ± 0.050 $\chi^2/\text{NDF}: 5627.3/57$

All: -31.001 ± 0.036 $\chi^2/\text{NDF}: 10805.2/108$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.414 ± 0.174 χ^2/NDF : 1489.8/27

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -3.203 ± 0.156 χ^2/NDF : 2811.5/32

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

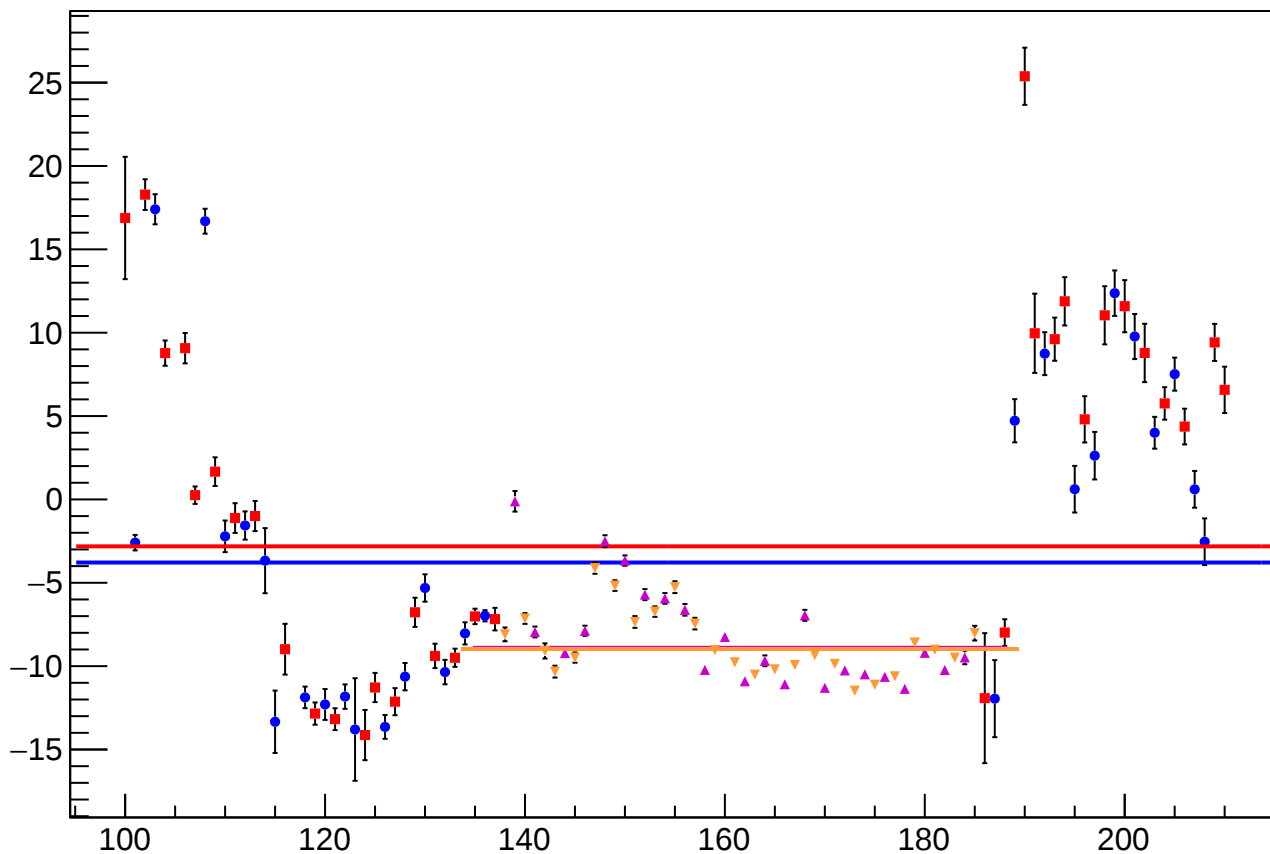
Right: -2.407 ± 0.116 χ^2/NDF : 4359.9/60

In: -6.622 ± 0.063 χ^2/NDF : 5645.7/50

Out: -6.577 ± 0.061 χ^2/NDF : 6404.5/57

All: -6.599 ± 0.044 χ^2/NDF : 12050.5/108

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.785 ± 0.156 $\chi^2/\text{NDF}: 2826.4/27$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -2.815 ± 0.155 $\chi^2/\text{NDF}: 3230.5/32$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

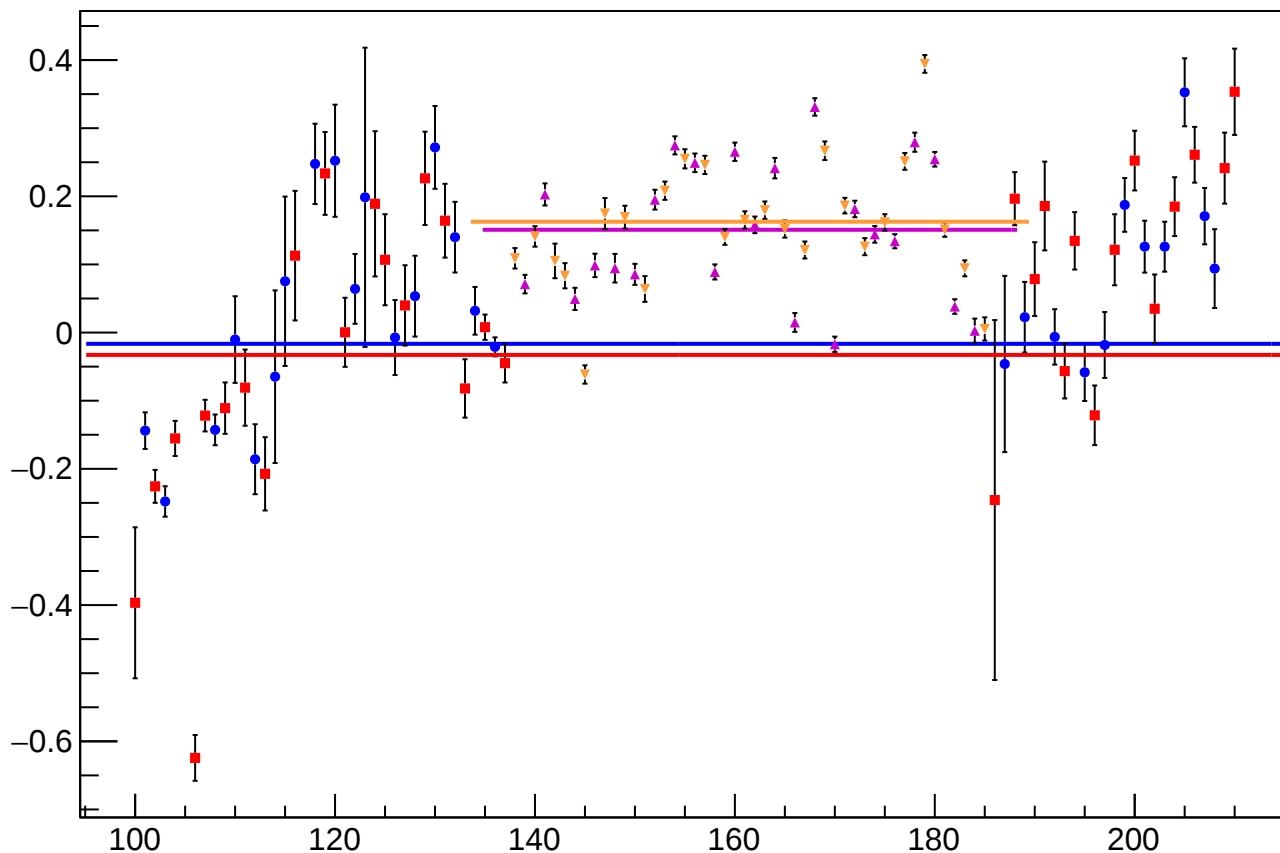
Right: -3.298 ± 0.110 $\chi^2/\text{NDF}: 6076.4/60$

In: -8.209 ± 0.057 $\chi^2/\text{NDF}: 5290.7/50$

Out: -8.168 ± 0.056 $\chi^2/\text{NDF}: 5473.4/57$

All: -8.188 ± 0.040 $\chi^2/\text{NDF}: 10764.4/108$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.017 ± 0.007 χ^2/NDF : 378.2/27

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.033 ± 0.007 χ^2/NDF : 769.1/32

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

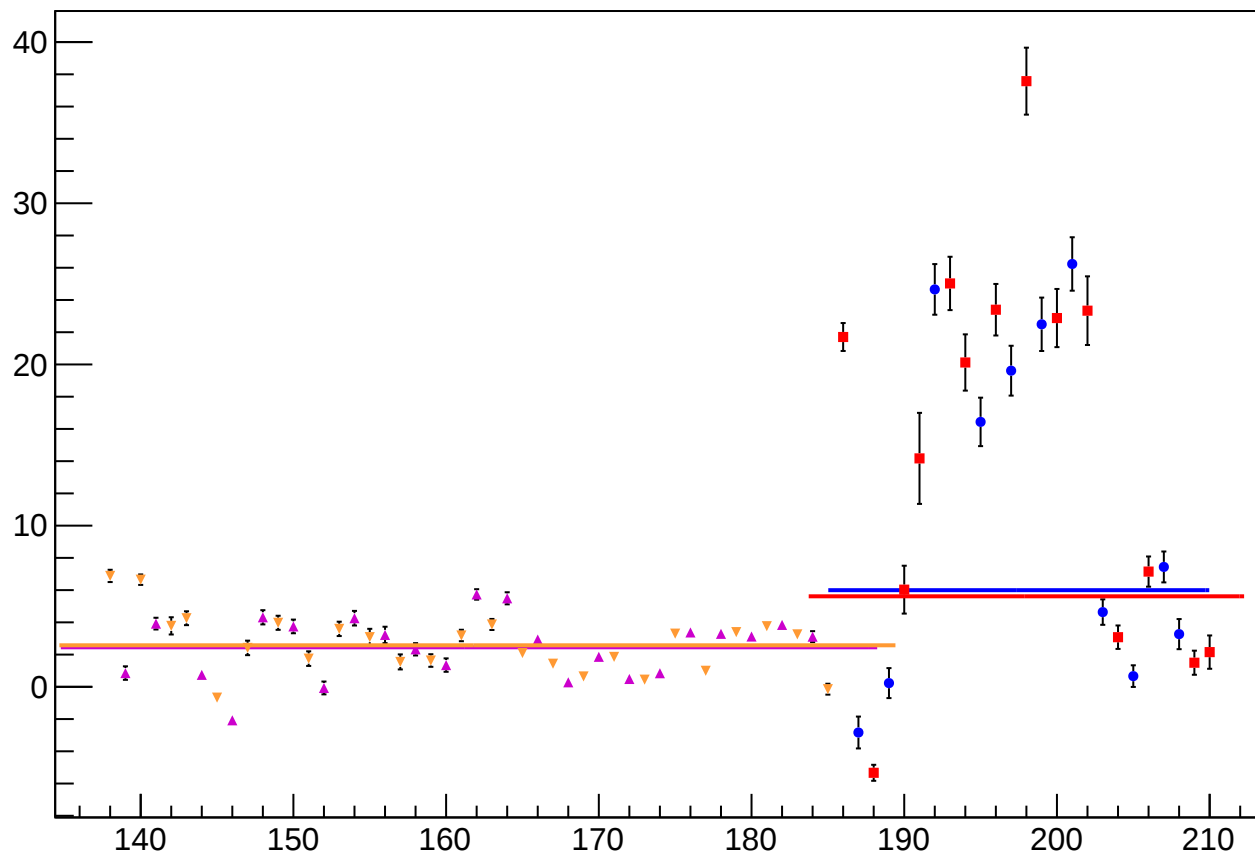
Right: -0.025 ± 0.005 χ^2/NDF : 1149.9/60

In: 0.129 ± 0.003 χ^2/NDF : 2141.1/50

Out: 0.137 ± 0.003 χ^2/NDF : 2453.2/57

All: 0.133 ± 0.002 χ^2/NDF : 4599.4/108

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.996 ± 0.313 χ^2/NDF : 710.0/10

Left Out: 2.577 ± 0.058 χ^2/NDF : 867.5/24

Right Out: 5.616 ± 0.272 χ^2/NDF : 1624.8/13

Left In: 2.452 ± 0.059 χ^2/NDF : 871.3/22

Left: 2.516 ± 0.042 χ^2/NDF : 1741.0/47

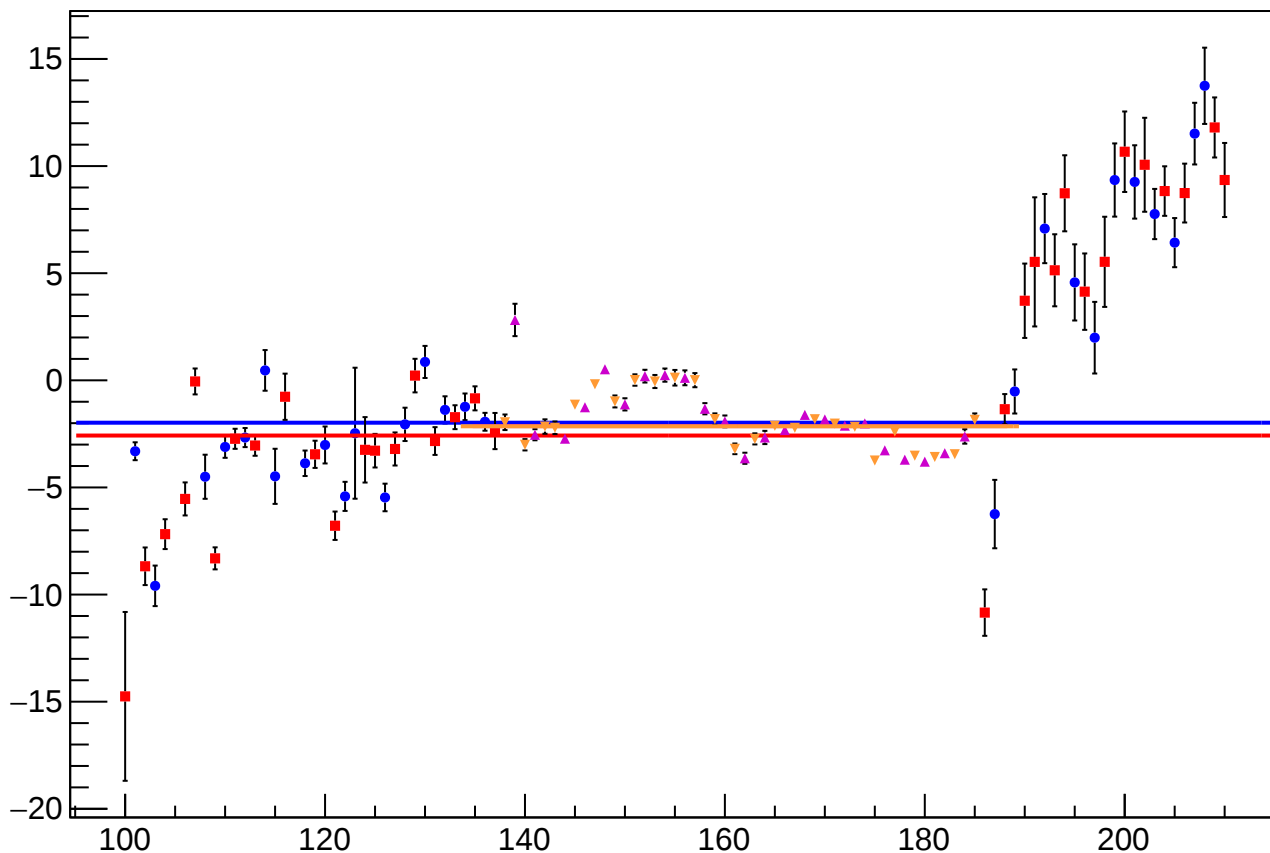
Right: 5.779 ± 0.205 χ^2/NDF : 2335.7/24

In: 2.575 ± 0.058 χ^2/NDF : 1705.3/33

Out: 2.710 ± 0.057 χ^2/NDF : 2612.1/38

All: 2.645 ± 0.041 χ^2/NDF : 4320.1/72

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.978 ± 0.146 χ^2/NDF : 617.7/27

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -2.577 ± 0.143 χ^2/NDF : 904.1/32

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

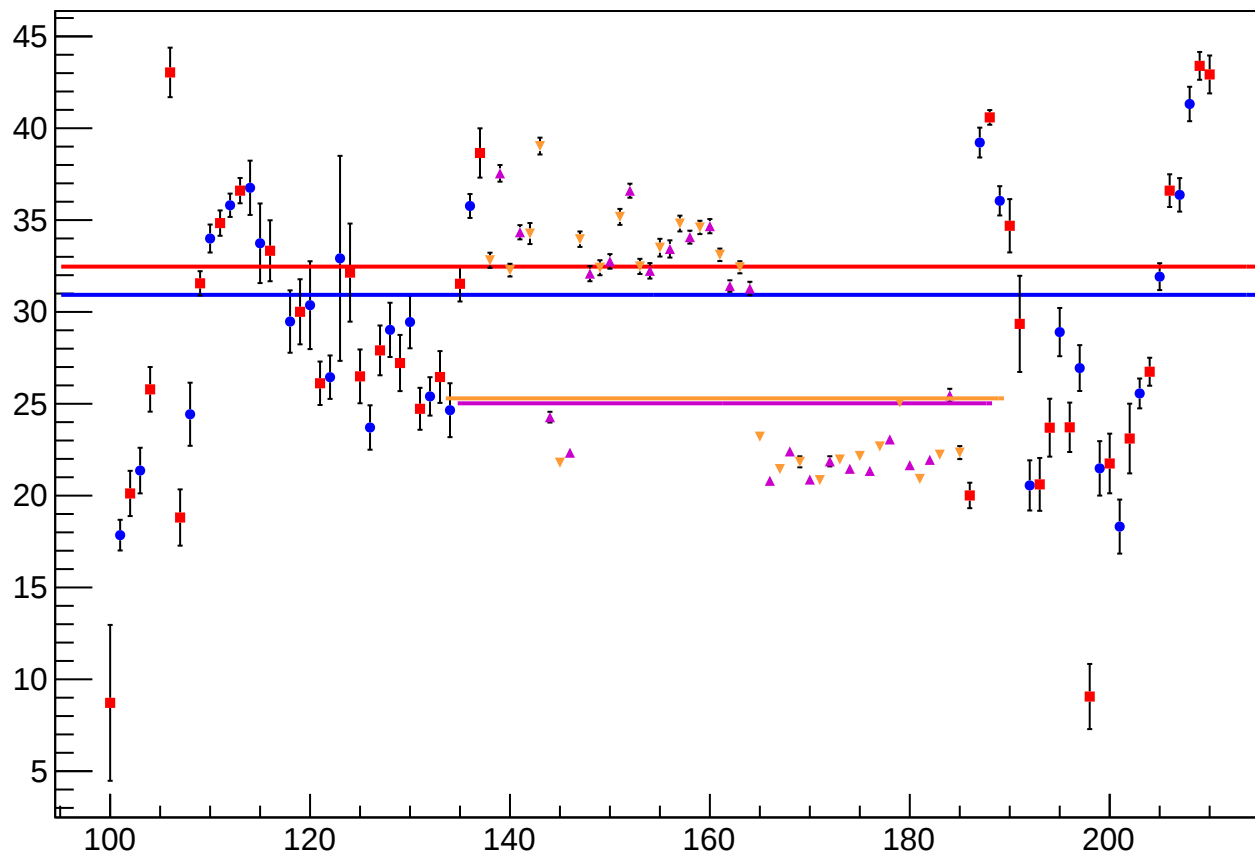
Right: -2.284 ± 0.102 χ^2/NDF : 1530.4/60

In: -2.121 ± 0.046 χ^2/NDF : 1310.0/50

Out: -2.189 ± 0.045 χ^2/NDF : 1485.7/57

All: -2.155 ± 0.032 χ^2/NDF : 2796.8/108

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.930 $\pm$ 0.198 χ^2 /NDF: 1100.8/27

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 32.467 $\pm$ 0.177 χ^2 /NDF: 2020.9/32

Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47

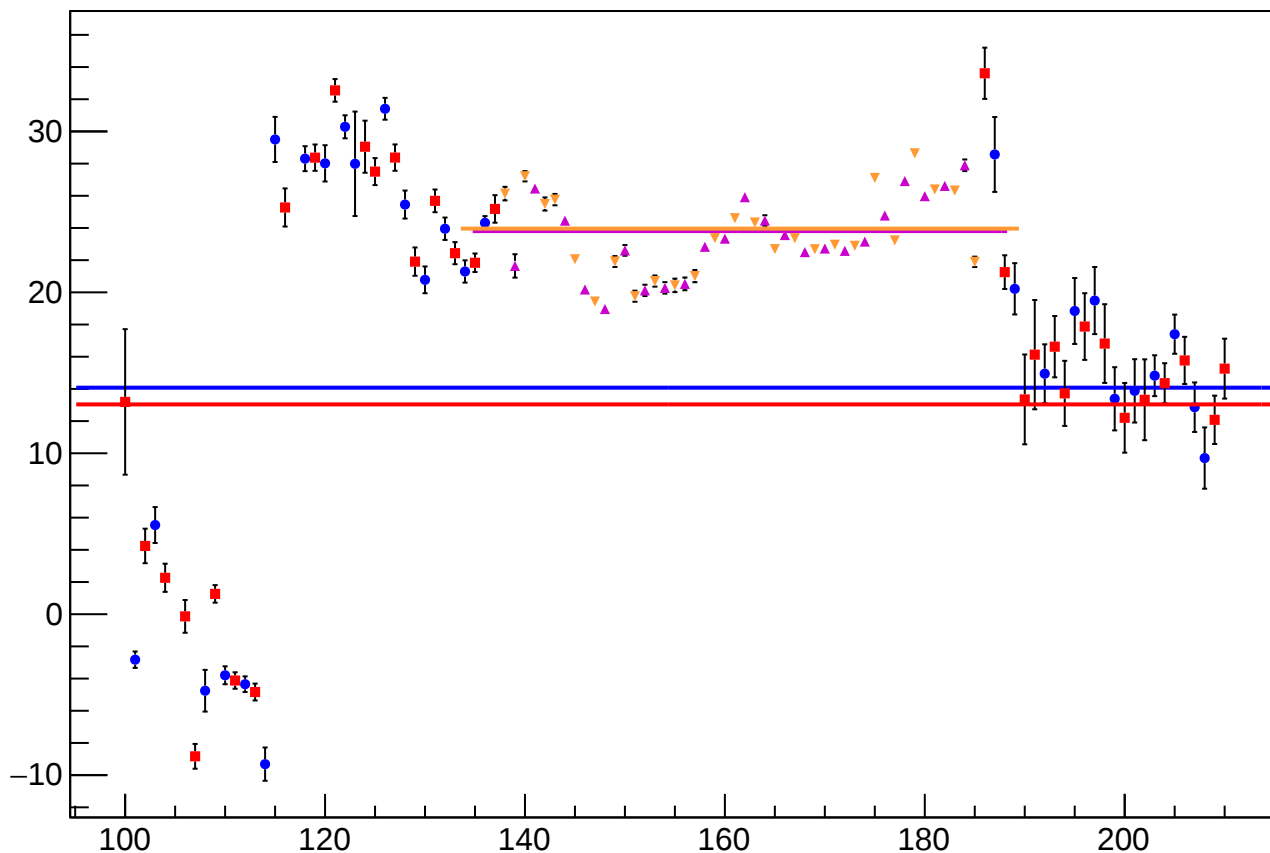
Right: 31.783 $\pm$ 0.132 χ^2 /NDF: 3155.1/60

In: 25.515 $\pm$ 0.057 χ^2 /NDF:9524.8/50

Out: 26.007 $\pm$ 0.056 χ^2 /NDF:11765.3/57

All: 25.766 $\pm$ 0.040 χ^2 /NDF: 21328.1/108

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.076 $\pm$ 0.164 χ^2 /NDF: 7356.7/27

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.037 $\pm$ 0.163 χ^2 /NDF: 7214.1/32

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

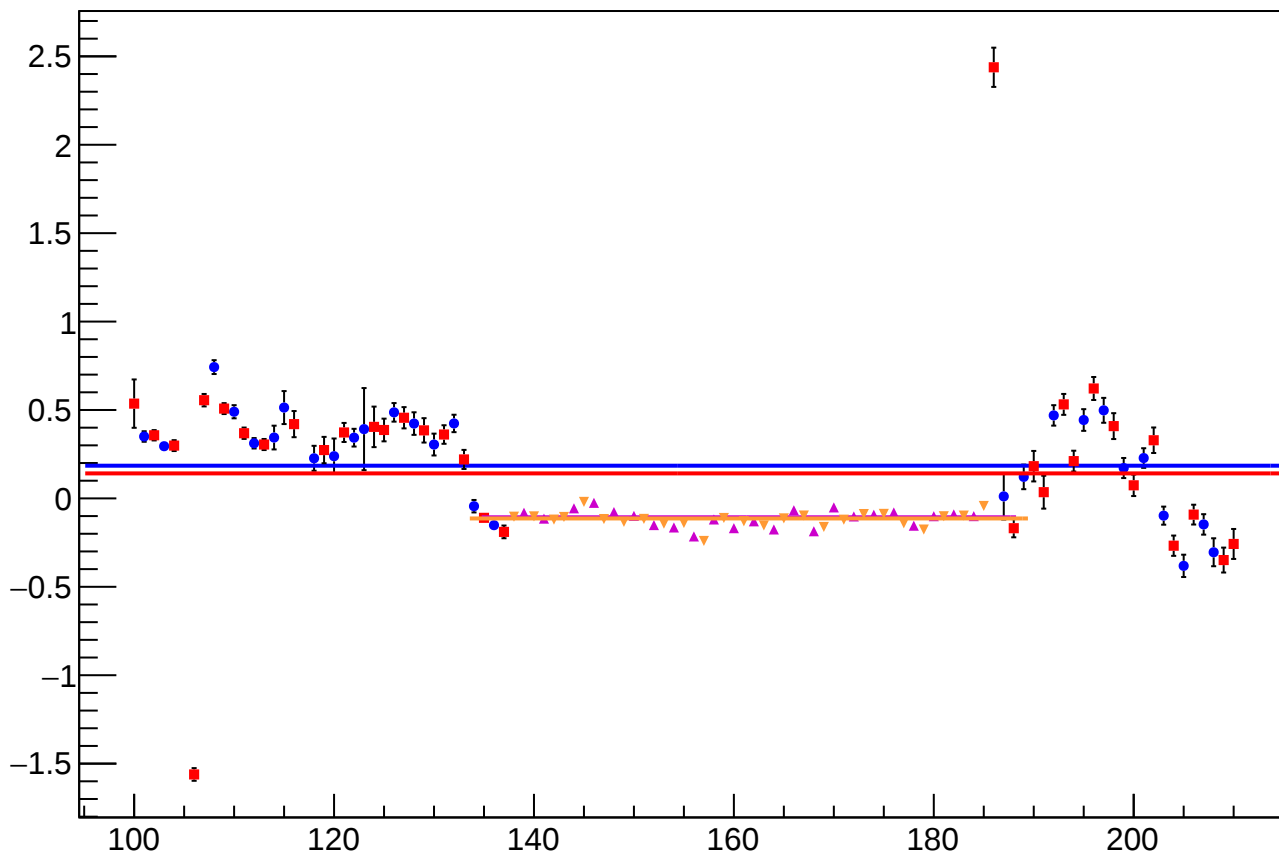
Right: 13.554 $\pm$ 0.116 χ^2 /NDF: 14591.1/60

In: 22.850 $\pm$ 0.051 χ^2 /NDF:12299.0/50

Out: 22.910 $\pm$ 0.051 χ^2 /NDF:13202.3/57

All: 22.881 $\pm$ 0.036 χ^2 /NDF: 25502.0/108

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.185 $\pm$ 0.008 χ^2 /NDF: 1098.2/27

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.141 $\pm$ 0.008 χ^2 /NDF: 3739.3/32

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

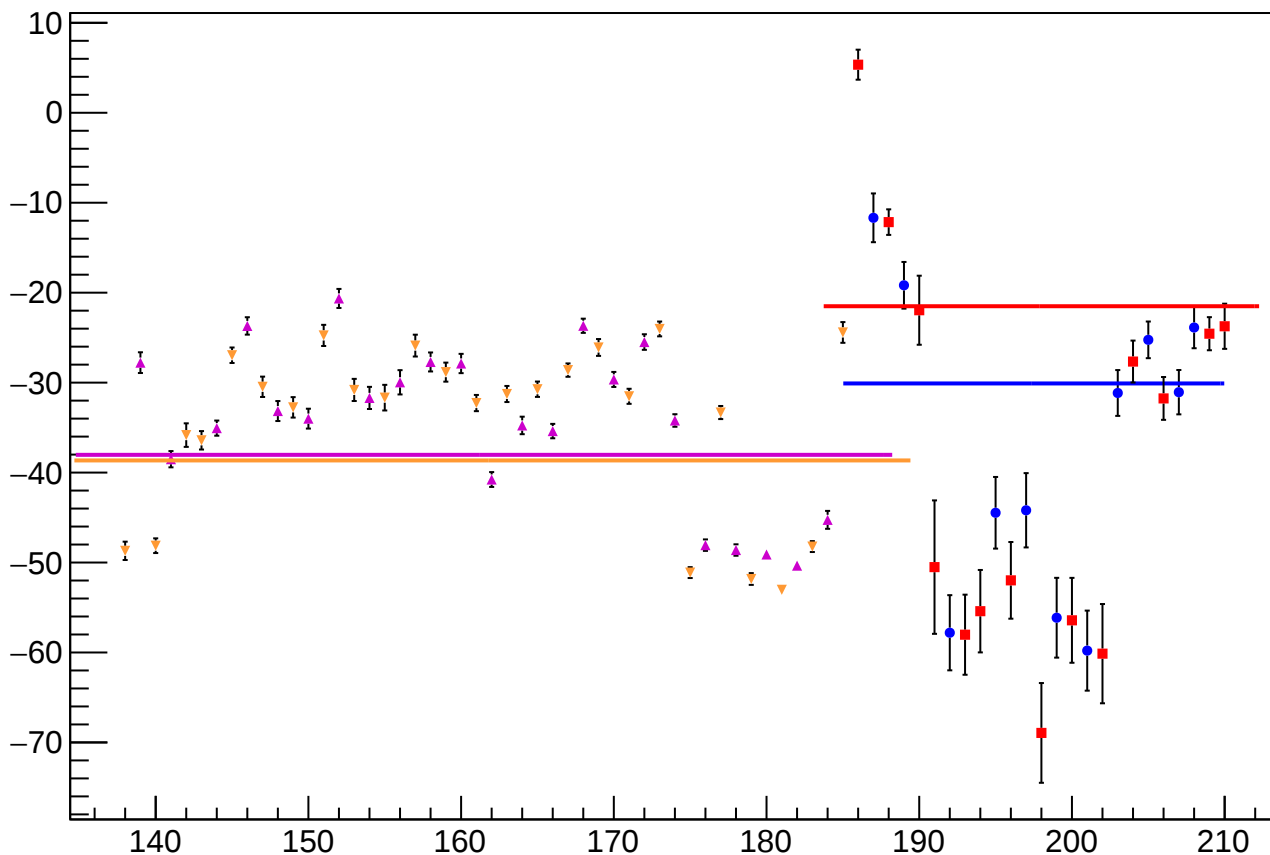
Right: 0.163 $\pm$ 0.006 χ^2 /NDF: 4851.3/60

In: -0.084 $\pm$ 0.002 χ^2 /NDF: 2525.5/50

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4920.3/57

All: -0.088 $\pm$ 0.002 χ^2 /NDF: 7453.6/108

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.091 ± 0.873 χ^2/NDF : 224.8/10

Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24

Right Out: -21.507 ± 0.704 χ^2/NDF : 696.5/13

Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47

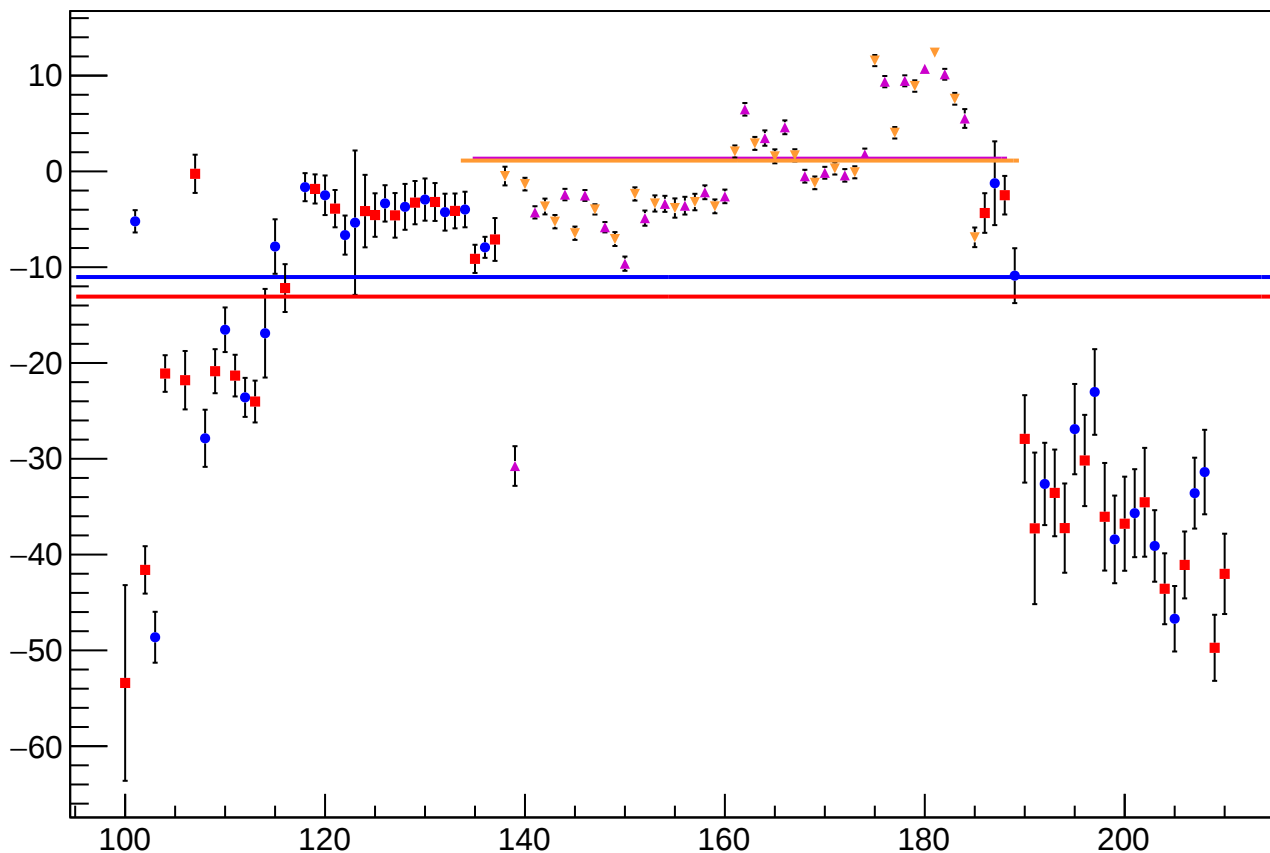
Right: -24.890 ± 0.548 χ^2/NDF : 980.0/24

In: -37.726 ± 0.170 χ^2/NDF : 3396.3/33

Out: -37.715 ± 0.164 χ^2/NDF : 5334.5/38

All: -37.720 ± 0.118 χ^2/NDF : 8730.9/72

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.028 ± 0.435 χ^2/NDF : 778.3/27

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.070 ± 0.438 χ^2/NDF : 931.7/32

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

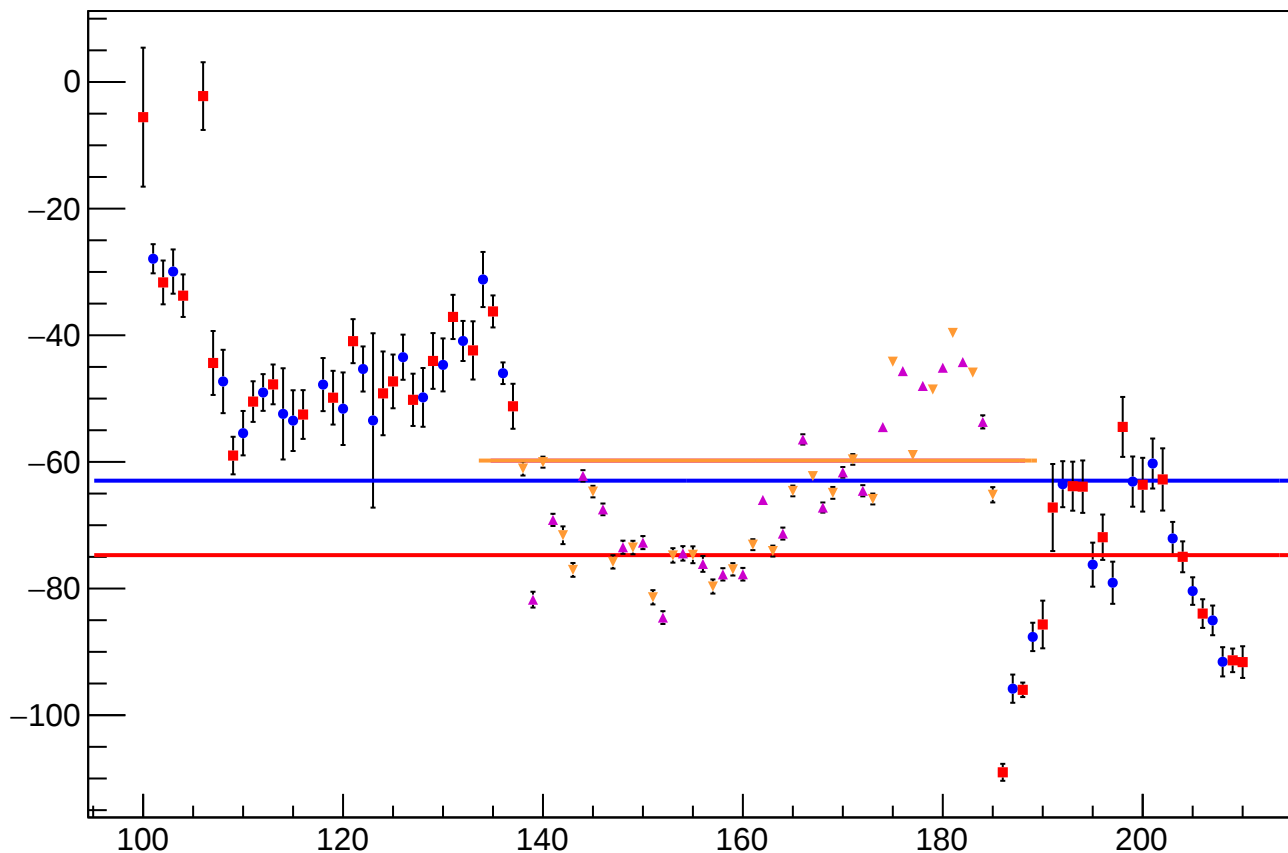
Right: -12.042 ± 0.308 χ^2/NDF : 1720.9/60

In: 0.170 ± 0.133 χ^2/NDF : 3558.8/50

Out: -0.120 ± 0.130 χ^2/NDF : 3690.9/57

All: 0.021 ± 0.093 χ^2/NDF : 7252.2/108

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.964 ± 0.585 $\chi^2/\text{NDF}: 1360.0/27$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -74.725 ± 0.507 $\chi^2/\text{NDF}: 2665.5/32$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

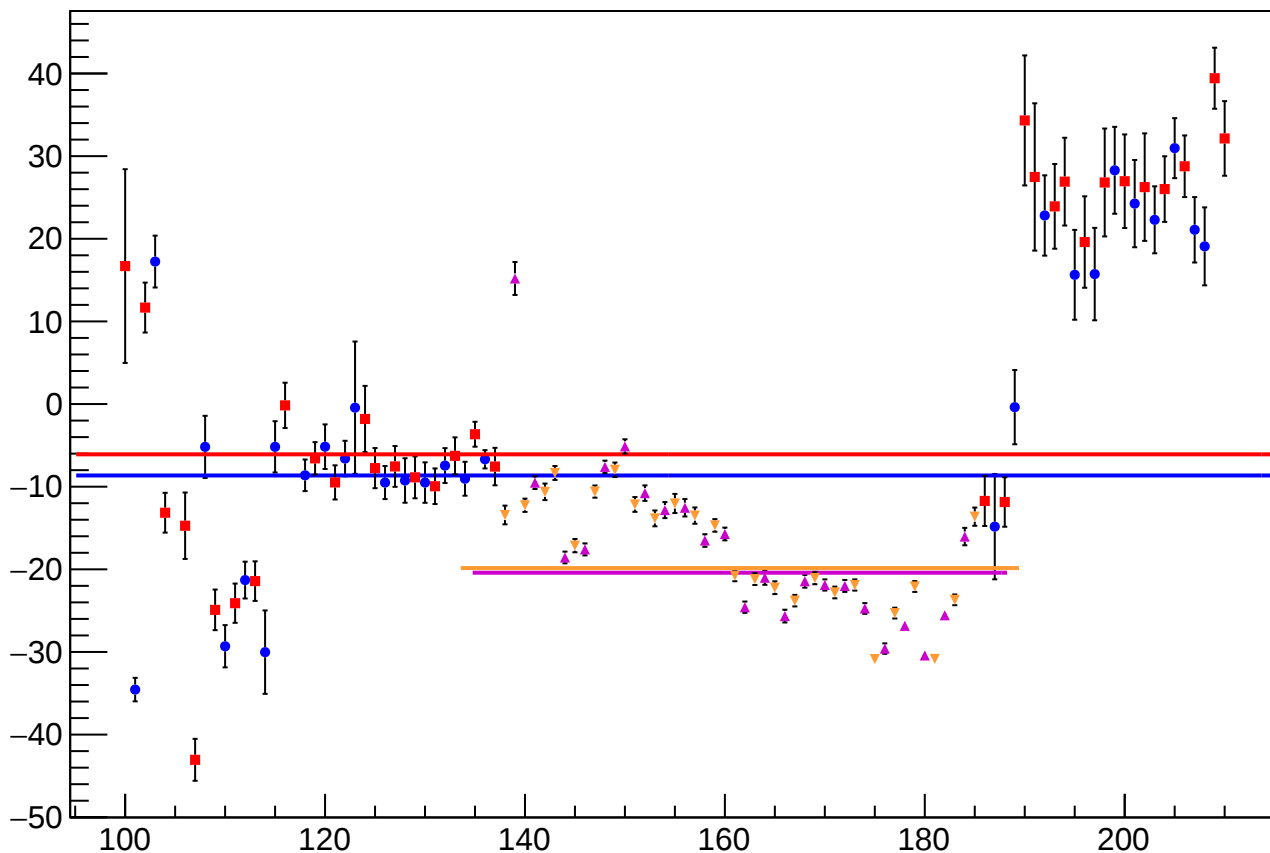
Right: -69.678 ± 0.383 $\chi^2/\text{NDF}: 4256.5/60$

In: -60.058 ± 0.166 $\chi^2/\text{NDF}: 6604.4/50$

Out: -61.301 ± 0.161 $\chi^2/\text{NDF}: 9283.9/57$

All: -60.698 ± 0.116 $\chi^2/\text{NDF}: 15917.1/108$

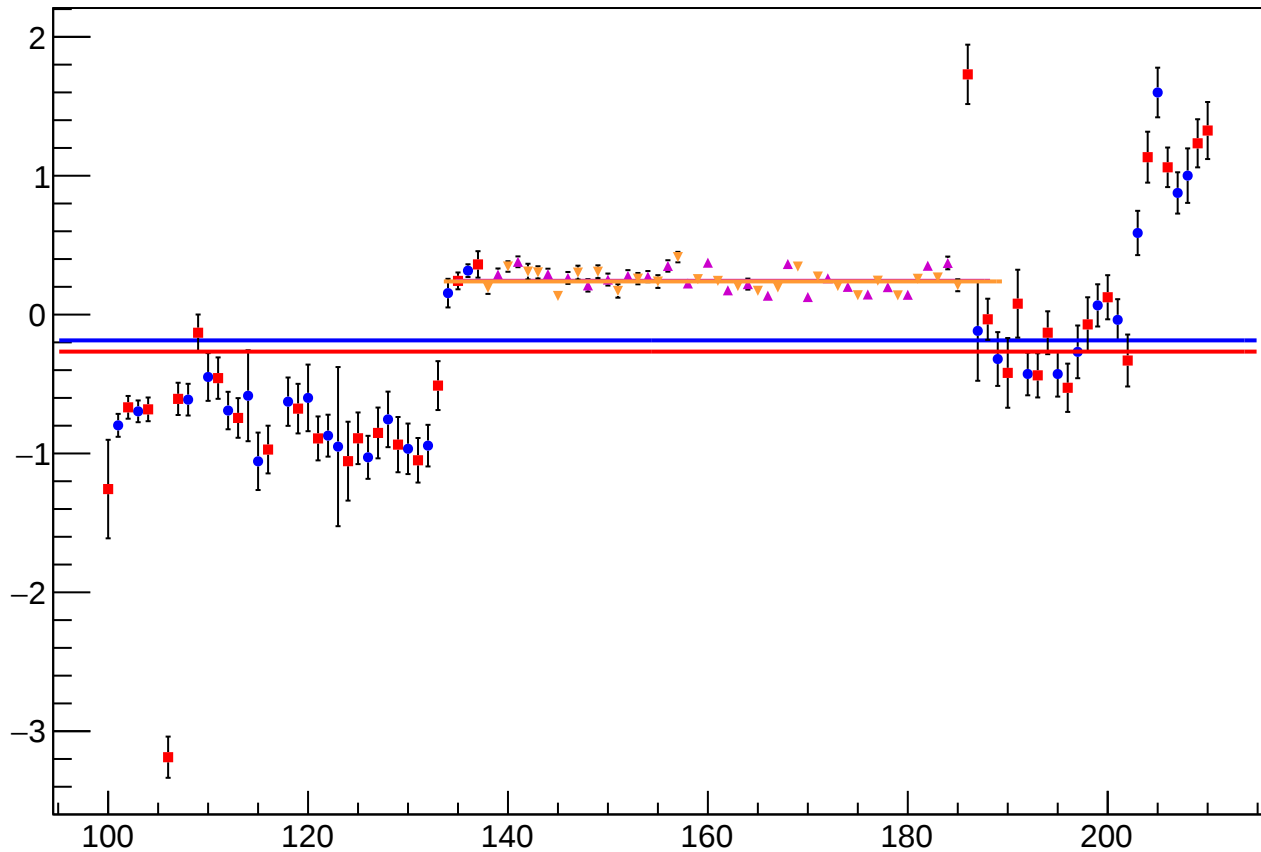
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.643 ± 0.491 $\chi^2/\text{NDF}: 967.0/27$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -6.085 ± 0.504 $\chi^2/\text{NDF}: 1040.2/32$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -7.396 ± 0.352 $\chi^2/\text{NDF}: 2020.4/60$
 In: -19.324 ± 0.149 $\chi^2/\text{NDF}: 3789.9/50$
 Out: -18.688 ± 0.146 $\chi^2/\text{NDF}: 3655.3/57$
 All: -18.999 ± 0.104 $\chi^2/\text{NDF}: 7454.5/108$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.186 ± 0.024 χ^2/NDF : 610.6/27

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.267 ± 0.025 χ^2/NDF : 1067.2/32

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

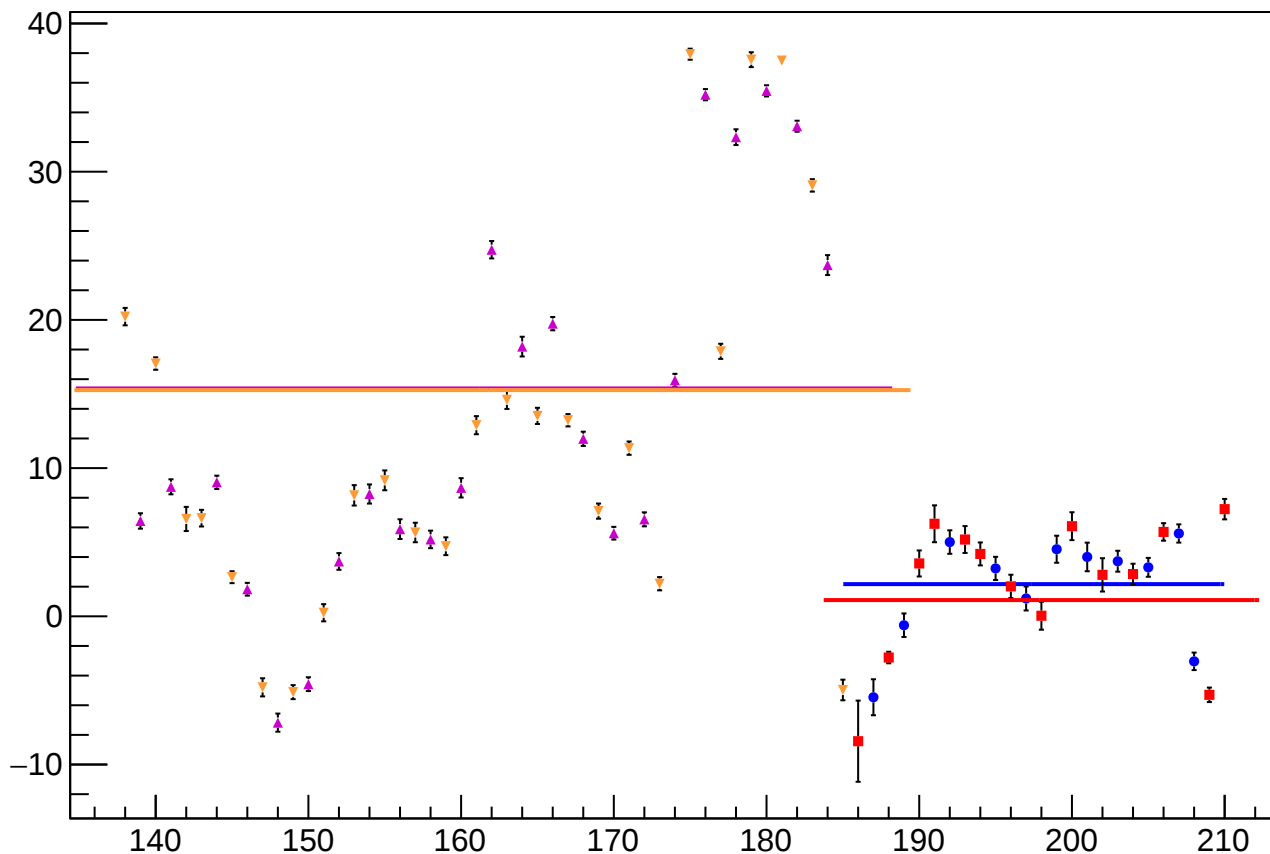
Right: -0.226 ± 0.017 χ^2/NDF : 1683.3/60

In: 0.209 ± 0.007 χ^2/NDF : 1034.4/50

Out: 0.200 ± 0.007 χ^2/NDF : 1553.3/57

All: 0.205 ± 0.005 χ^2/NDF : 2588.5/108

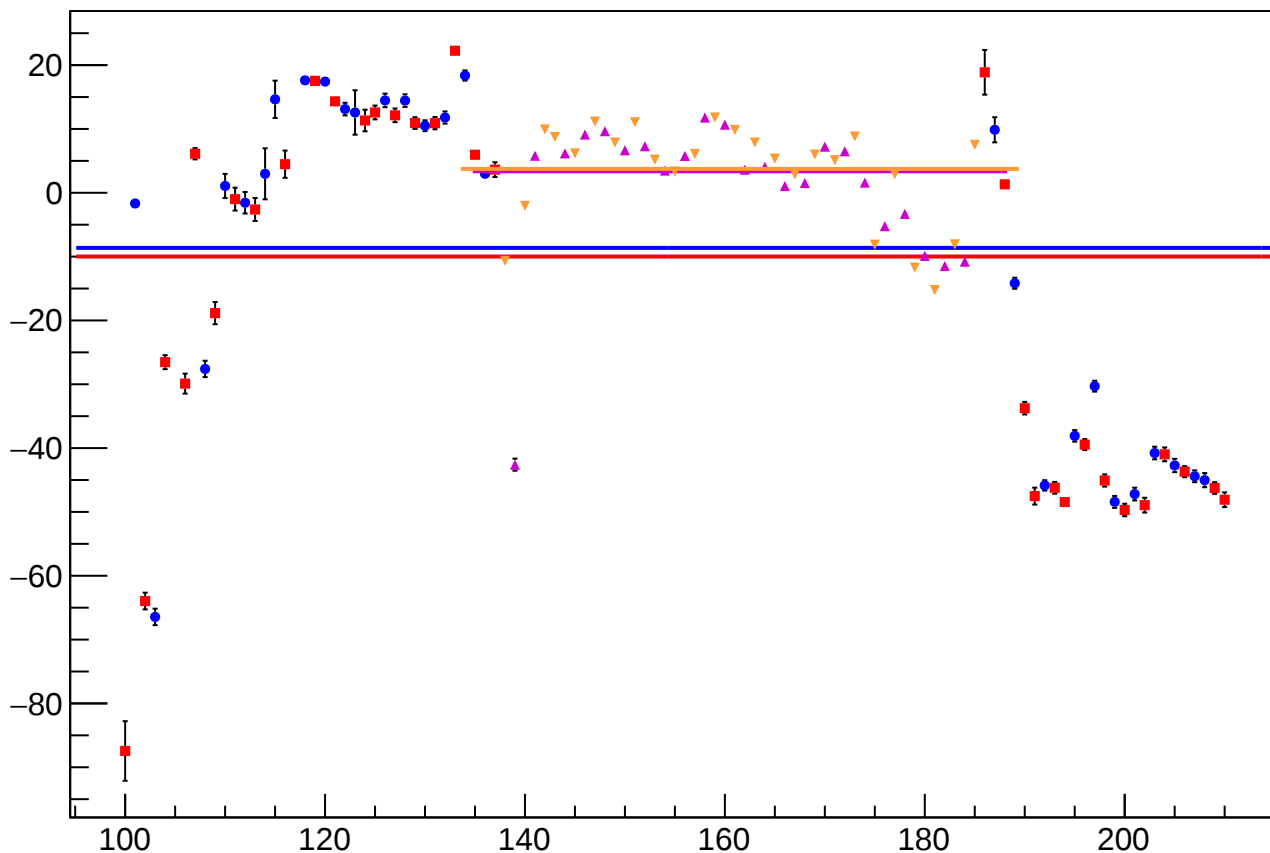
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.172 $\pm$ 0.228 χ^2 /NDF: 194.7/10
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 1.095 $\pm$ 0.191 χ^2 /NDF: 522.8/13
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 1.540 $\pm$ 0.146 χ^2 /NDF: 730.7/24
 In: 13.144 $\pm$ 0.094 χ^2 /NDF:19256.3/33
 Out: 12.190 $\pm$ 0.089 χ^2 /NDF:24009.4/38
 All: 12.642 $\pm$ 0.064 χ^2 /NDF: 43320.4/72

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.630+/-0.175 χ^2 /NDF: 22814.7/27

Left Out: 3.746+/-0.079 χ^2 /NDF:9247.4/24

Right Out: -9.985+/-0.163 χ^2 /NDF: 30304.0/32

Left In: 3.365+/-0.081 χ^2 /NDF:8527.0/22

Left: 3.561+/-0.057 χ^2 /NDF: 17785.7/47

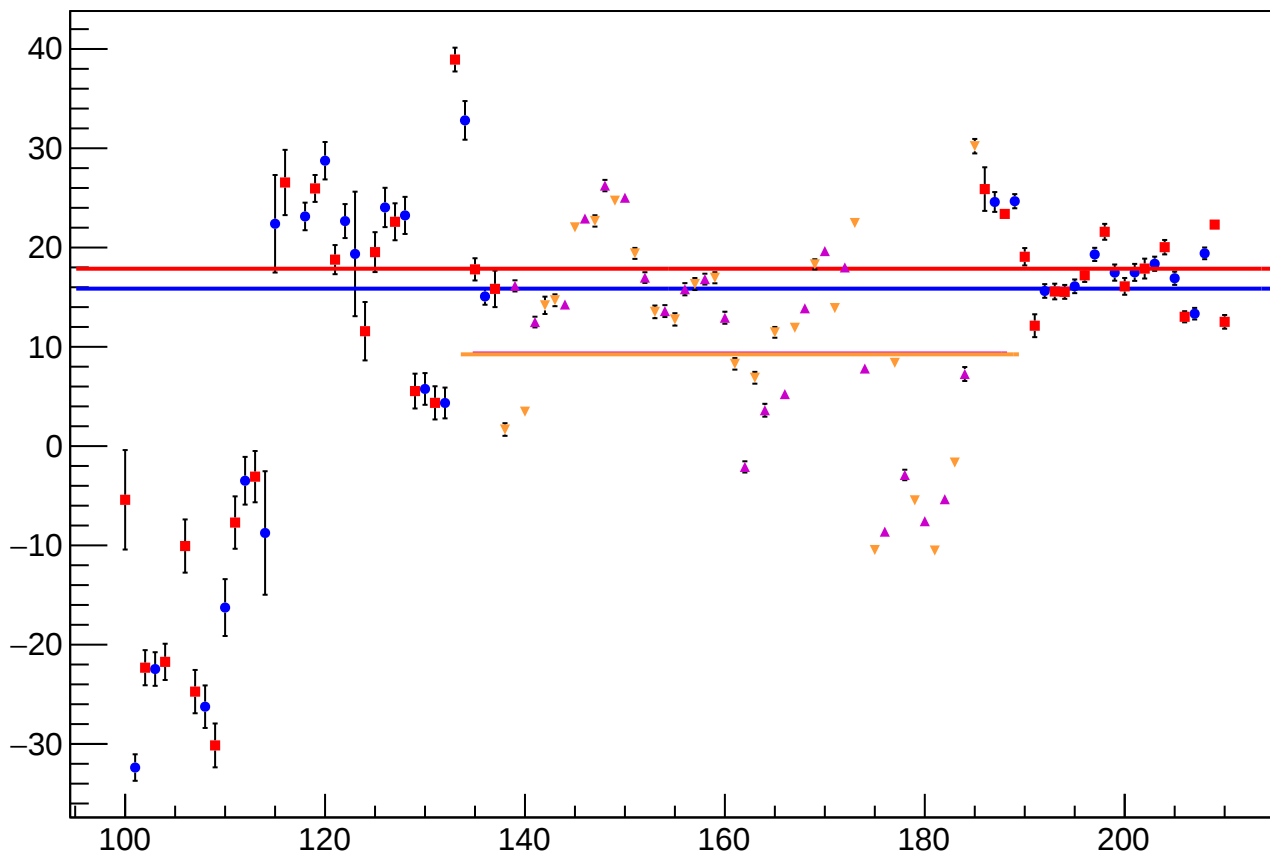
Right: -9.357+/-0.119 χ^2 /NDF: 53150.9/60

In: 1.235+/-0.074 χ^2 /NDF:35213.8/50

Out: 1.136+/-0.071 χ^2 /NDF:45329.2/57

All: 1.184+/-0.051 χ^2 /NDF: 80544.0/108

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.860 $\pm$ 0.189 χ^2 /NDF: 3040.2/27

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.868 $\pm$ 0.160 χ^2 /NDF: 3227.0/32

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

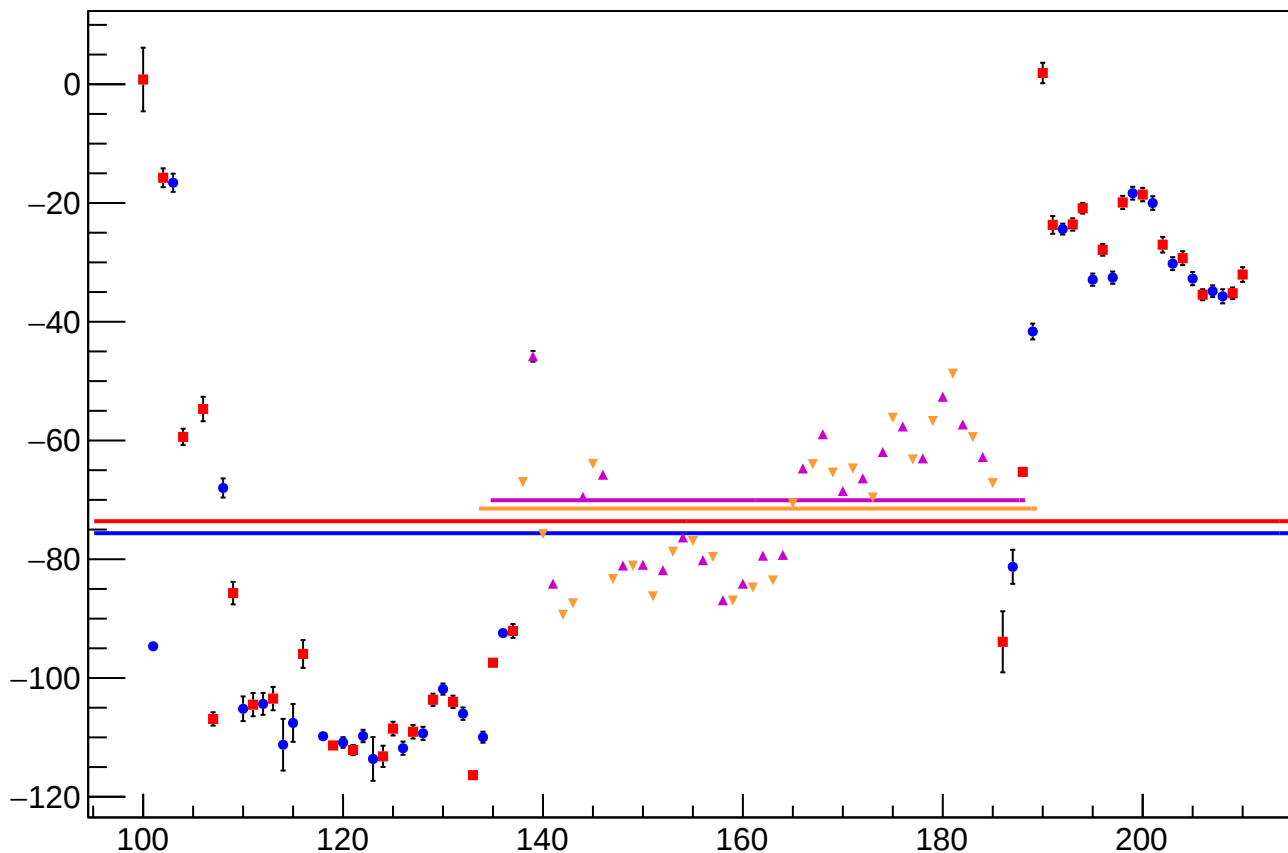
Right: 17.031 $\pm$ 0.122 χ^2 /NDF: 6333.1/60

In: 10.814 $\pm$ 0.090 χ^2 /NDF:15931.3/50

Out: 11.701 $\pm$ 0.085 χ^2 /NDF:18943.6/57

All: 11.282 $\pm$ 0.062 χ^2 /NDF: 34926.1/108

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.613 ± 0.202 $\chi^2/\text{NDF}: 32666.0/27$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -73.589 ± 0.190 $\chi^2/\text{NDF}: 42512.3/32$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

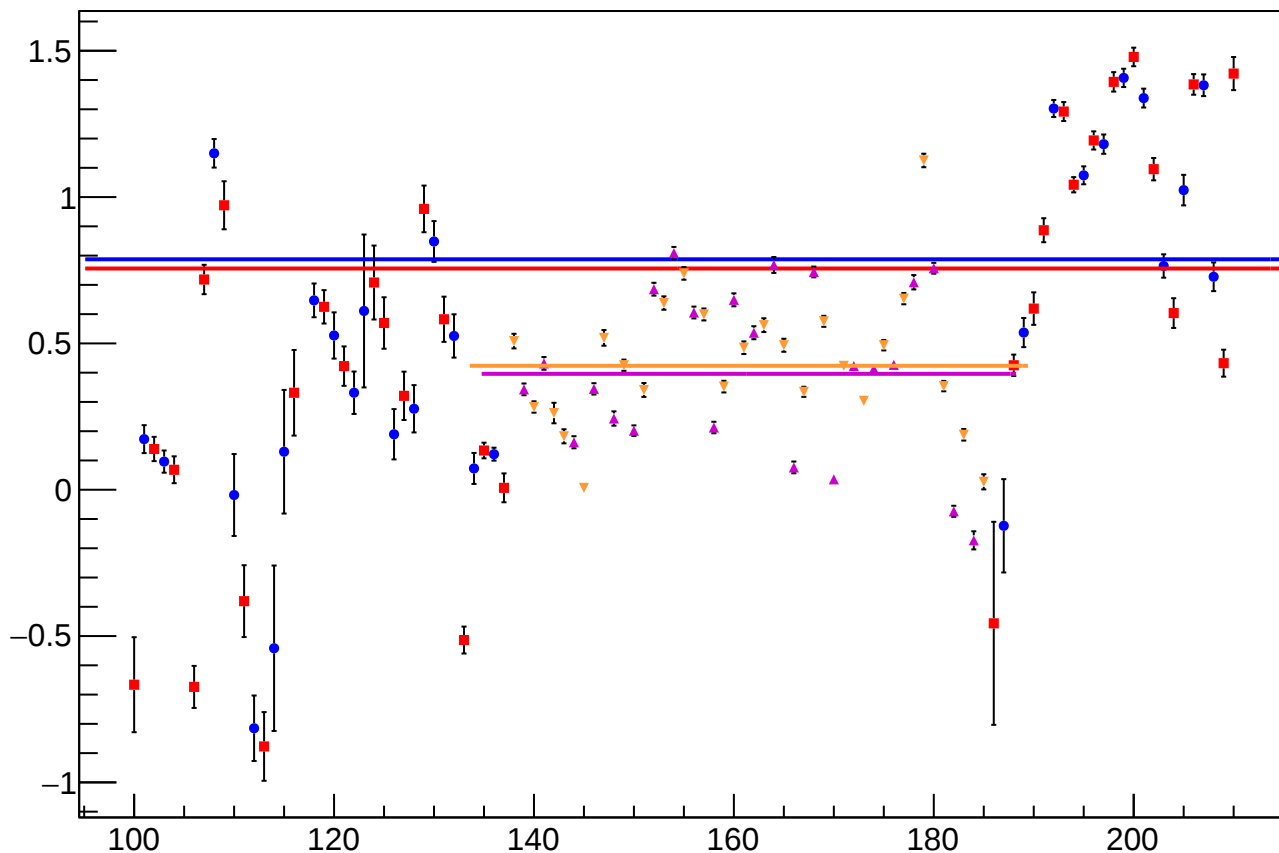
Right: -74.543 ± 0.138 $\chi^2/\text{NDF}: 75231.6/60$

In: -71.014 ± 0.083 $\chi^2/\text{NDF}: 46353.2/50$

Out: -71.849 ± 0.081 $\chi^2/\text{NDF}: 59024.1/57$

All: -71.445 ± 0.058 $\chi^2/\text{NDF}: 105429.0/108$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.009 χ^2 /NDF: 3635.5/27

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.756 $\pm$ 0.008 χ^2 /NDF: 5009.1/32

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

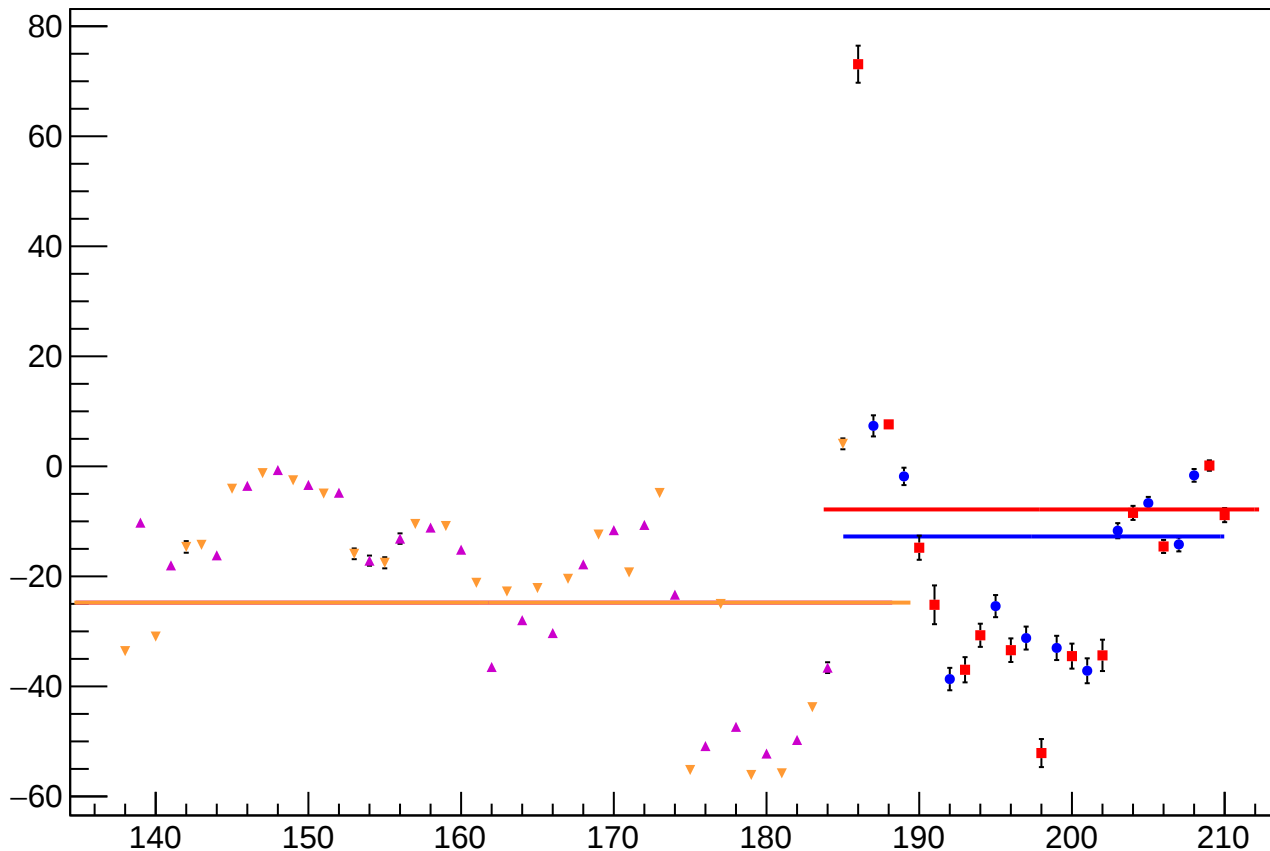
Right: 0.771 $\pm$ 0.006 χ^2 /NDF: 8651.6/60

In: 0.469 $\pm$ 0.004 χ^2 /NDF:9331.1/50

Out: 0.491 $\pm$ 0.004 χ^2 /NDF:9232.2/57

All: 0.480 $\pm$ 0.003 χ^2 /NDF: 18581.0/108

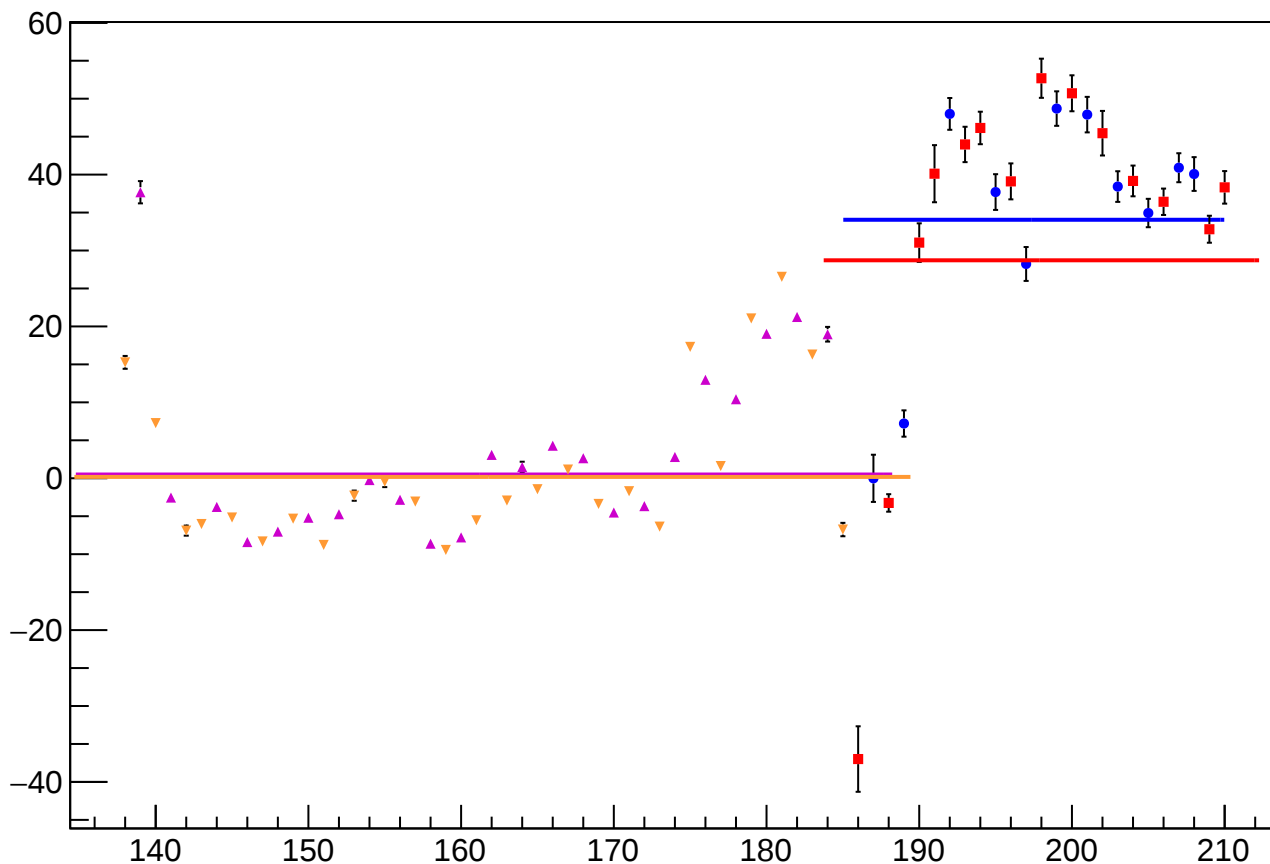
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.747 ± 0.473 $\chi^2/\text{NDF}: 760.5/10$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.834 ± 0.405 $\chi^2/\text{NDF}: 2035.8/13$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$
 Right: -9.915 ± 0.308 $\chi^2/\text{NDF}: 2858.4/24$
 In: -23.771 ± 0.137 $\chi^2/\text{NDF}: 16160.3/33$
 Out: -22.979 ± 0.132 $\chi^2/\text{NDF}: 21914.5/38$
 All: -23.361 ± 0.095 $\chi^2/\text{NDF}: 38092.2/72$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.050 $\pm$ 0.641 χ^2 /NDF: 515.3/10

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 28.711 $\pm$ 0.562 χ^2 /NDF: 1416.4/13

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

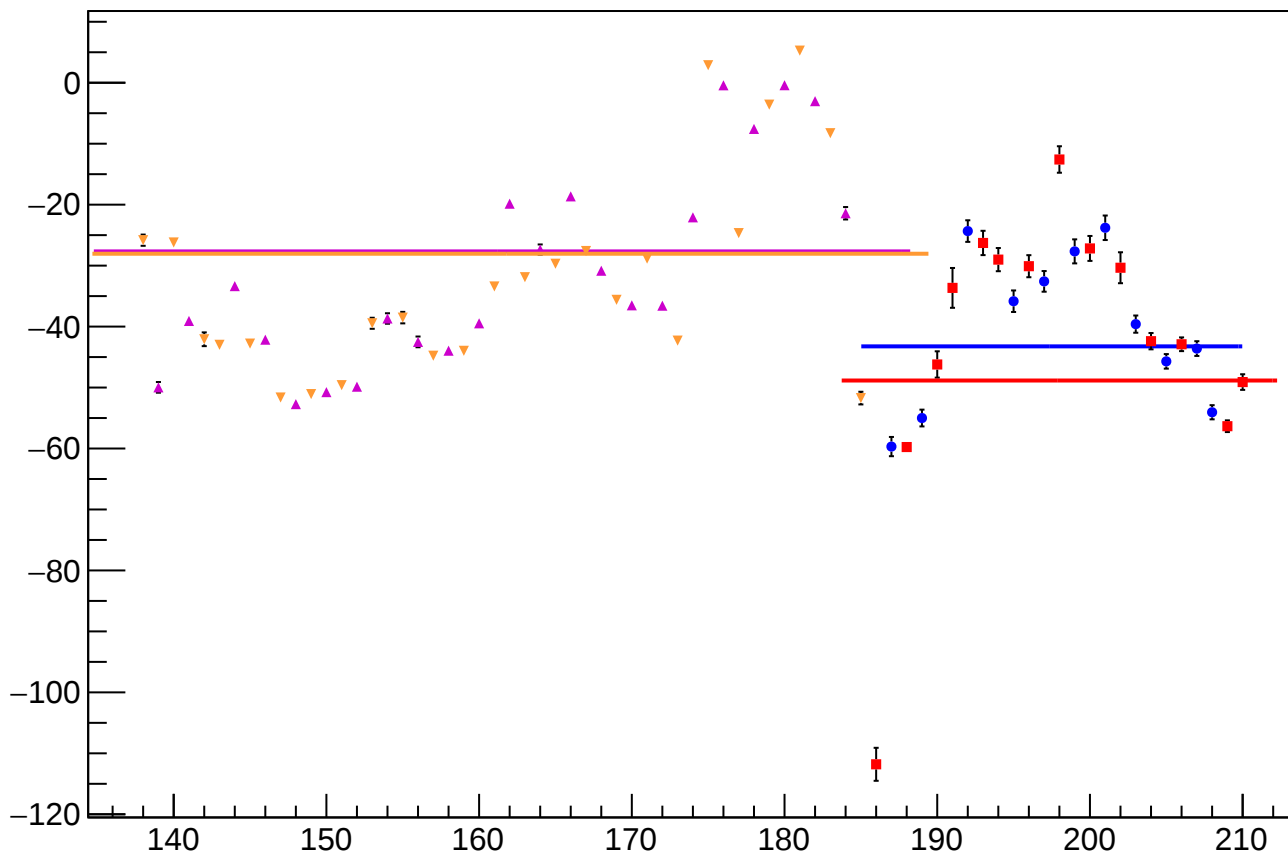
Right: 31.030 $\pm$ 0.423 χ^2 /NDF: 1970.8/24

In: 1.488 $\pm$ 0.110 χ^2 /NDF:9725.9/33

Out: 1.203 $\pm$ 0.107 χ^2 /NDF:12197.3/38

All: 1.340 $\pm$ 0.077 χ^2 /NDF: 21926.7/72

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.245 ± 0.445 χ^2/NDF : 606.1/10

Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24

Right Out: -48.846 ± 0.370 χ^2/NDF : 1748.9/13

Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47

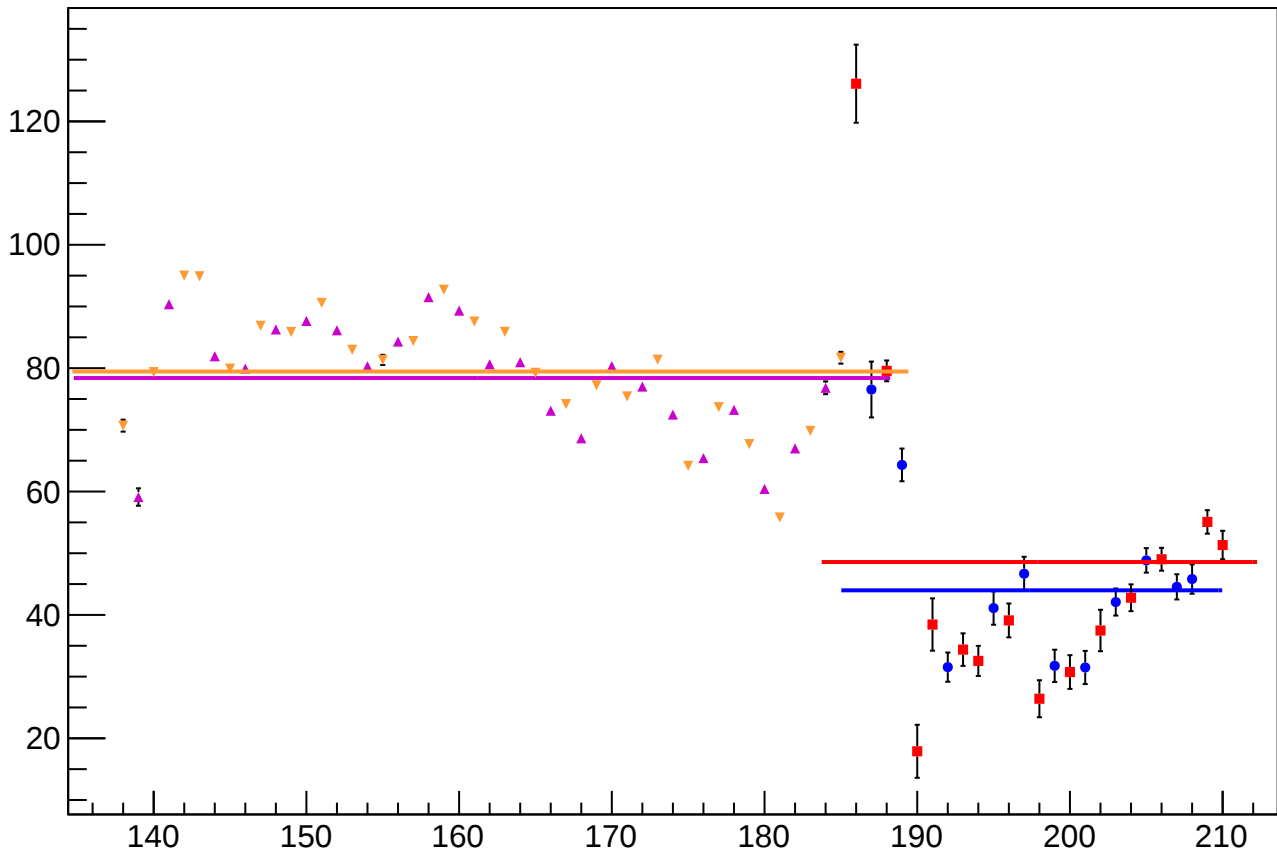
Right: -46.558 ± 0.284 χ^2/NDF : 2448.7/24

In: -29.114 ± 0.136 χ^2/NDF : 16720.7/33

Out: -30.653 ± 0.131 χ^2/NDF : 21659.8/38

All: -29.911 ± 0.094 χ^2/NDF : 38447.2/72

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.987 $\pm$ 0.745 χ^2 /NDF: 191.2/10

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.574 $\pm$ 0.670 χ^2 /NDF: 756.8/13

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

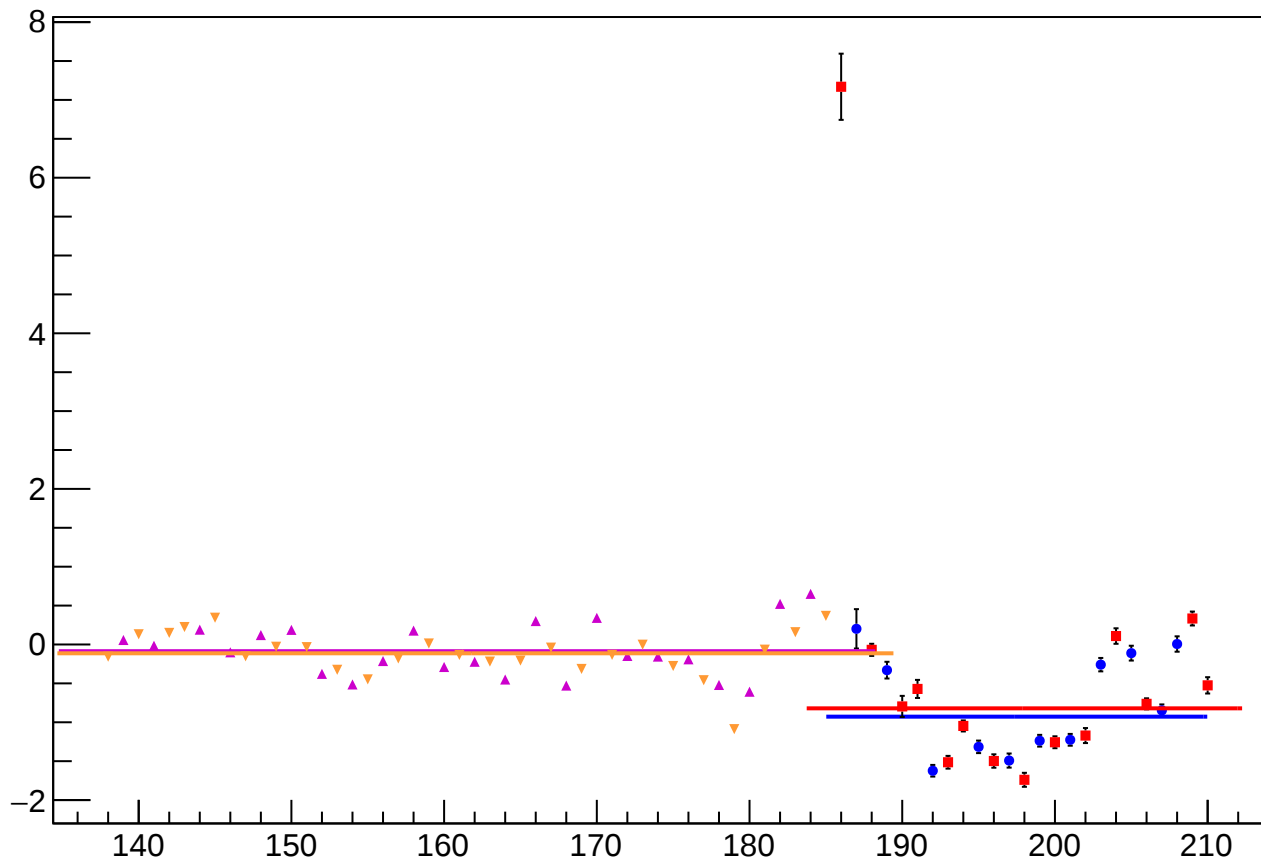
Right: 46.524 $\pm$ 0.498 χ^2 /NDF: 969.0/24

In: 77.428 $\pm$ 0.125 χ^2 /NDF: 6972.0/33

Out: 78.445 $\pm$ 0.121 χ^2 /NDF: 8890.6/38

All: 77.952 $\pm$ 0.087 χ^2 /NDF: 15896.8/72

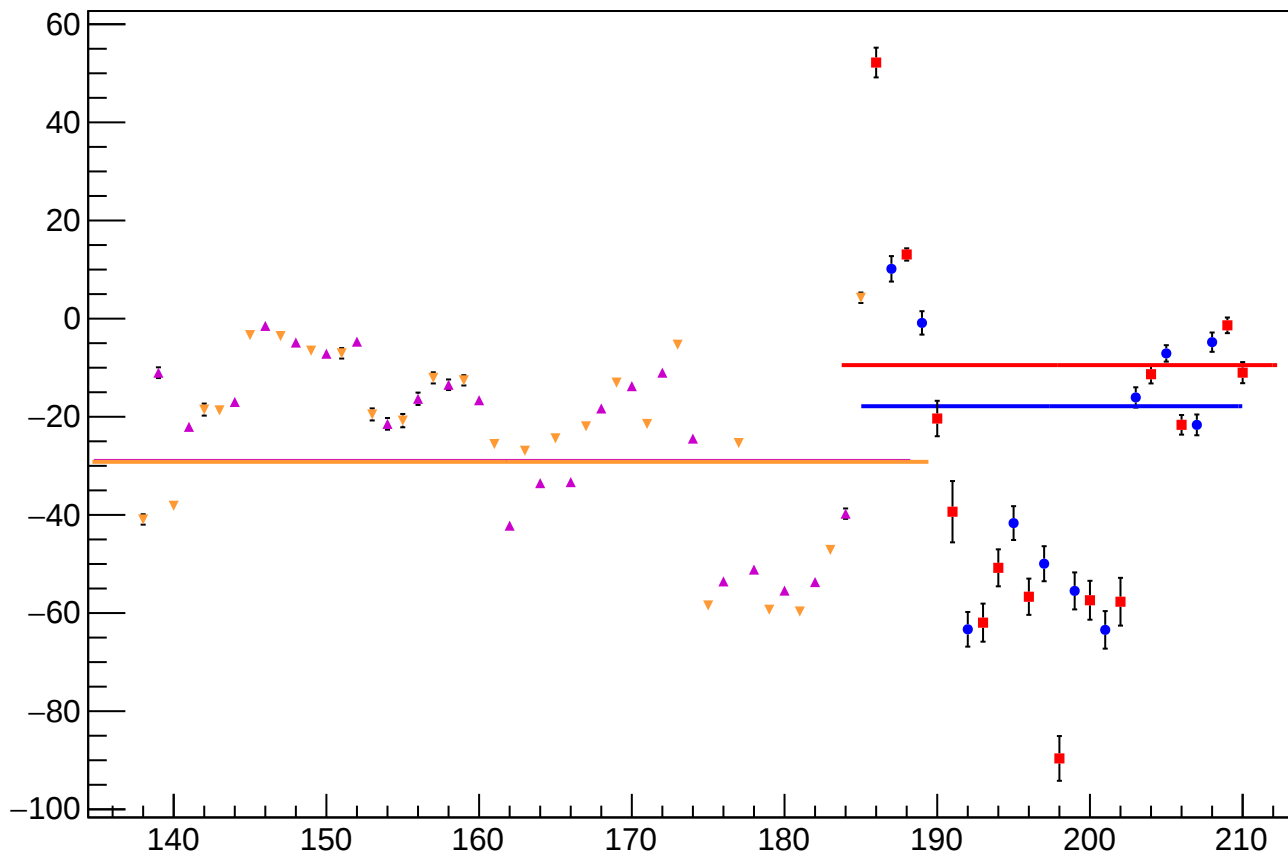
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.928 ± 0.027 χ^2/NDF : 454.7/10
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.821 ± 0.024 χ^2/NDF : 1006.7/13
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.870 ± 0.018 χ^2/NDF : 1470.3/24
 In: -0.124 ± 0.006 χ^2/NDF : 4548.4/33
 Out: -0.150 ± 0.006 χ^2/NDF : 4116.1/38
 All: -0.138 ± 0.004 χ^2/NDF : 8675.0/72

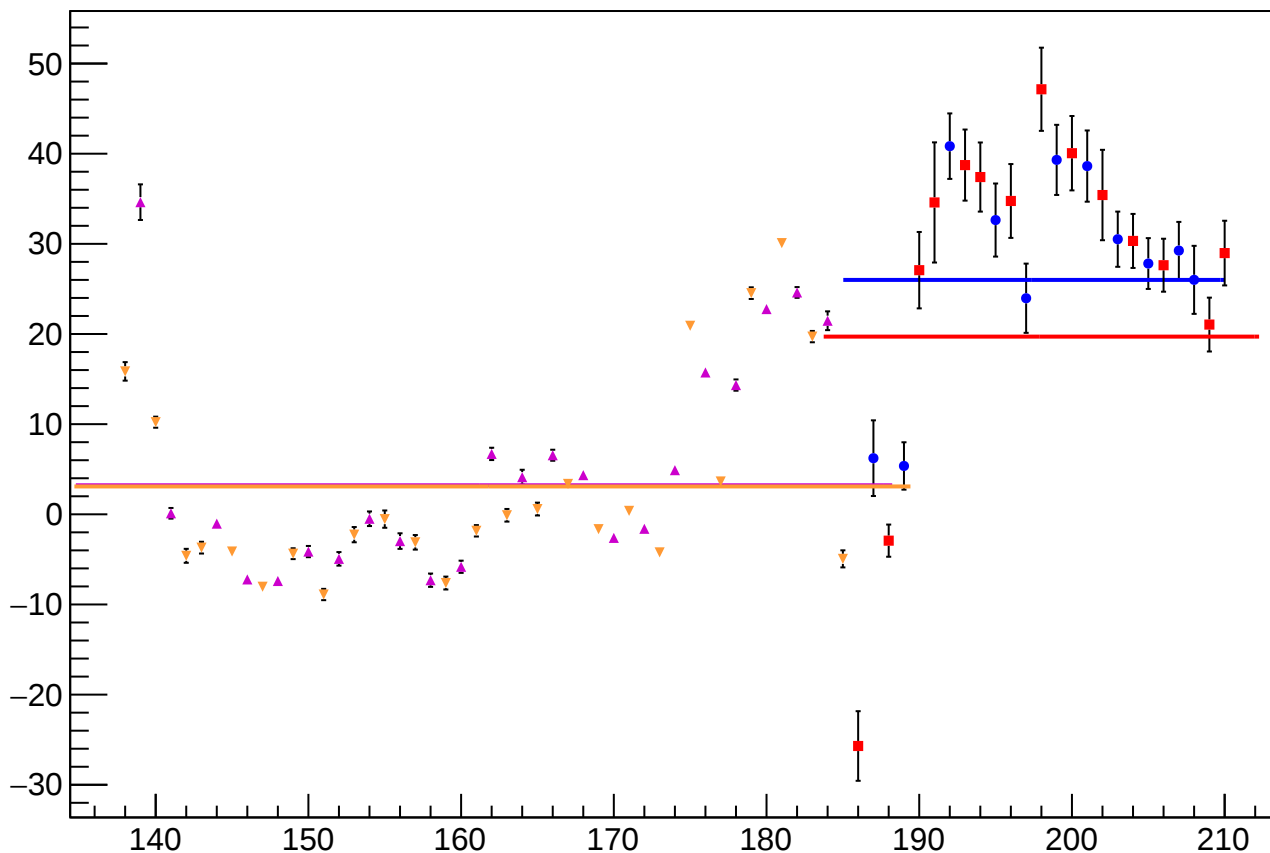
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.848 ± 0.750 χ^2/NDF : 792.3/10
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -9.473 ± 0.652 χ^2/NDF : 1854.7/13
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -13.075 ± 0.492 χ^2/NDF : 2718.1/24
 In: -28.518 ± 0.156 χ^2/NDF : 14420.7/33
 Out: -28.102 ± 0.152 χ^2/NDF : 19631.8/38
 All: -28.305 ± 0.109 χ^2/NDF : 34056.1/72

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.999 $\pm$ 1.033 χ^2 /NDF: 129.1/10

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 19.710 $\pm$ 0.908 χ^2 /NDF: 461.4/13

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

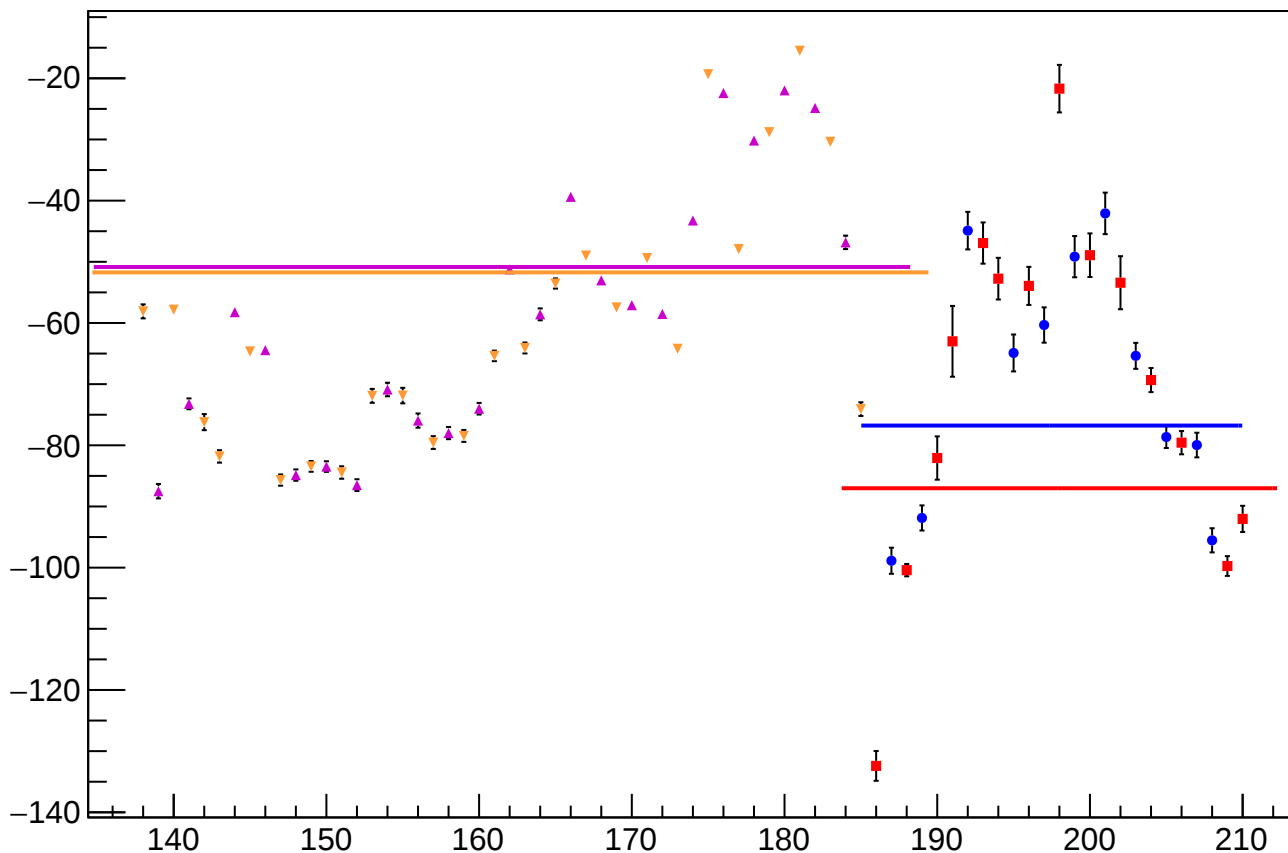
Right: 22.452 $\pm$ 0.682 χ^2 /NDF: 611.5/24

In: 3.560 $\pm$ 0.126 χ^2 /NDF:6846.2/33

Out: 3.397 $\pm$ 0.123 χ^2 /NDF:8874.5/38

All: 3.477 $\pm$ 0.088 χ^2 /NDF: 15721.6/72

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.772 $\pm$ 0.707 χ^2 /NDF: 611.1/10

Left Out: -51.729 $\pm$ 0.158 χ^2 /NDF:19538.0/24

Right Out: -87.019 $\pm$ 0.590 χ^2 /NDF: 1518.2/13

Left In: -50.844 $\pm$ 0.160 χ^2 /NDF:17272.0/22

Left: -51.293 $\pm$ 0.112 χ^2 /NDF: 36825.5/47

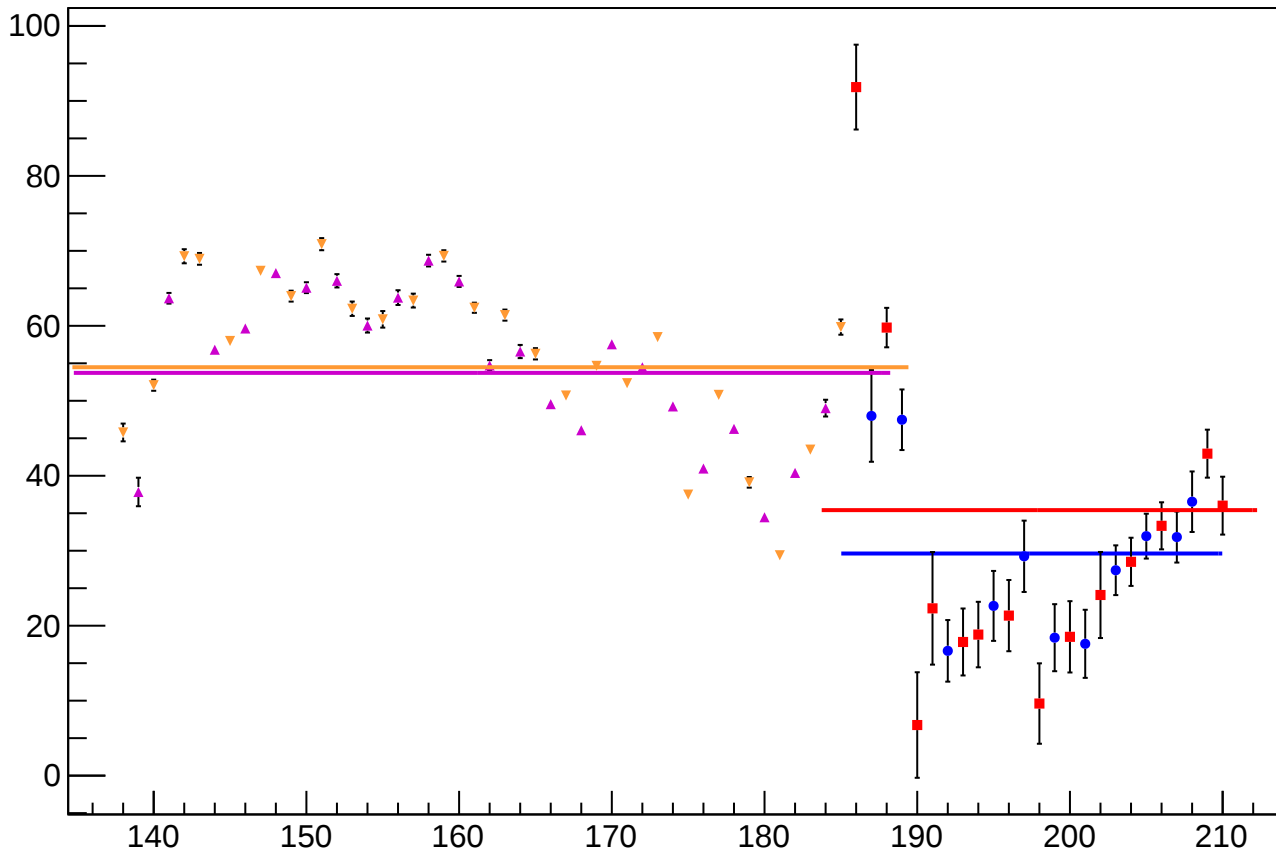
Right: -82.806 $\pm$ 0.453 χ^2 /NDF: 2253.1/24

In: -52.110 $\pm$ 0.156 χ^2 /NDF:19163.4/33

Out: -54.084 $\pm$ 0.153 χ^2 /NDF:24390.0/38

All: -53.120 $\pm$ 0.109 χ^2 /NDF: 43635.2/72

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 29.629 $\pm$ 1.207 χ^2 /NDF: 58.5/10

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 35.415 $\pm$ 1.096 χ^2 /NDF: 293.6/13

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

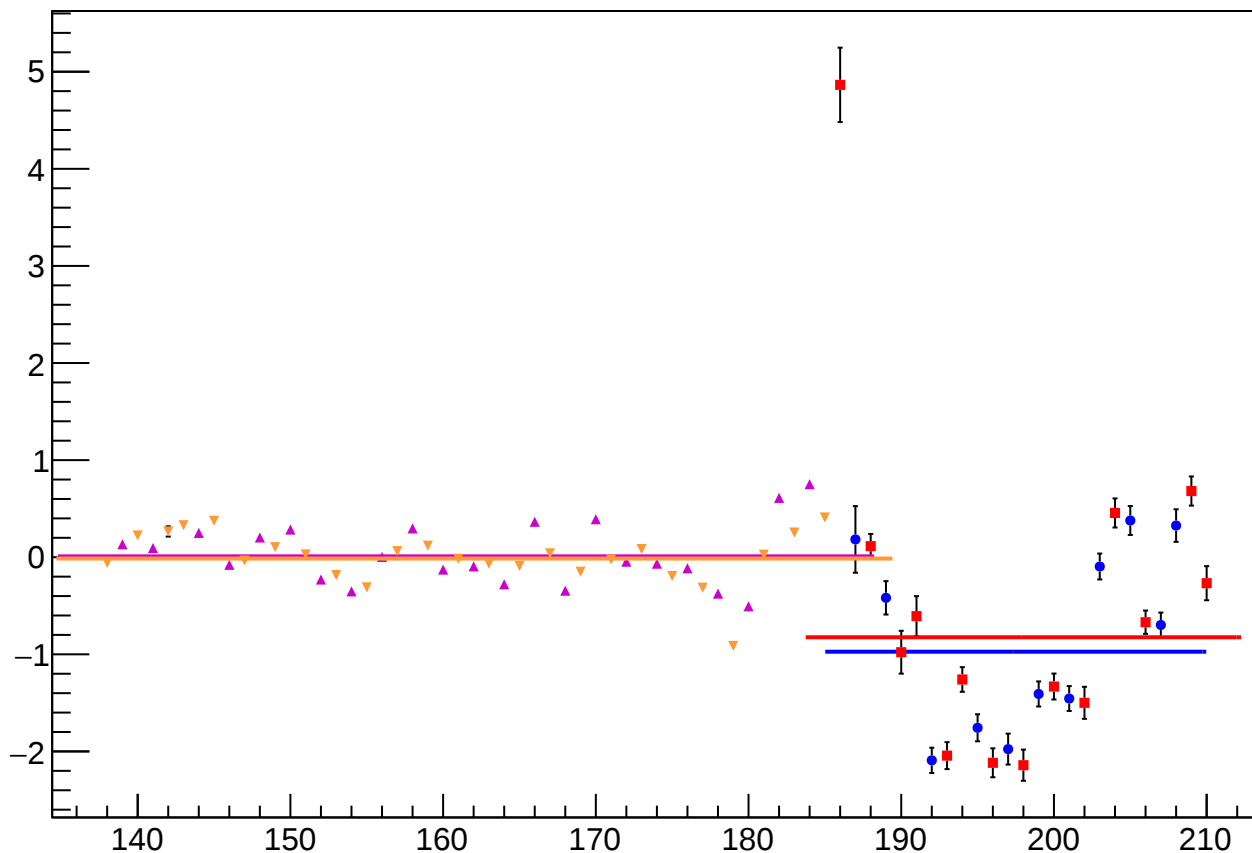
Right: 32.801 $\pm$ 0.811 χ^2 /NDF: 364.7/24

In: 53.390 $\pm$ 0.142 χ^2 /NDF: 5037.1/33

Out: 54.169 $\pm$ 0.139 χ^2 /NDF: 6858.2/38

All: 53.788 $\pm$ 0.099 χ^2 /NDF: 11910.7/72

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.973 ± 0.044 χ^2/NDF : 383.0/10

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.824 ± 0.041 χ^2/NDF : 725.8/13

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

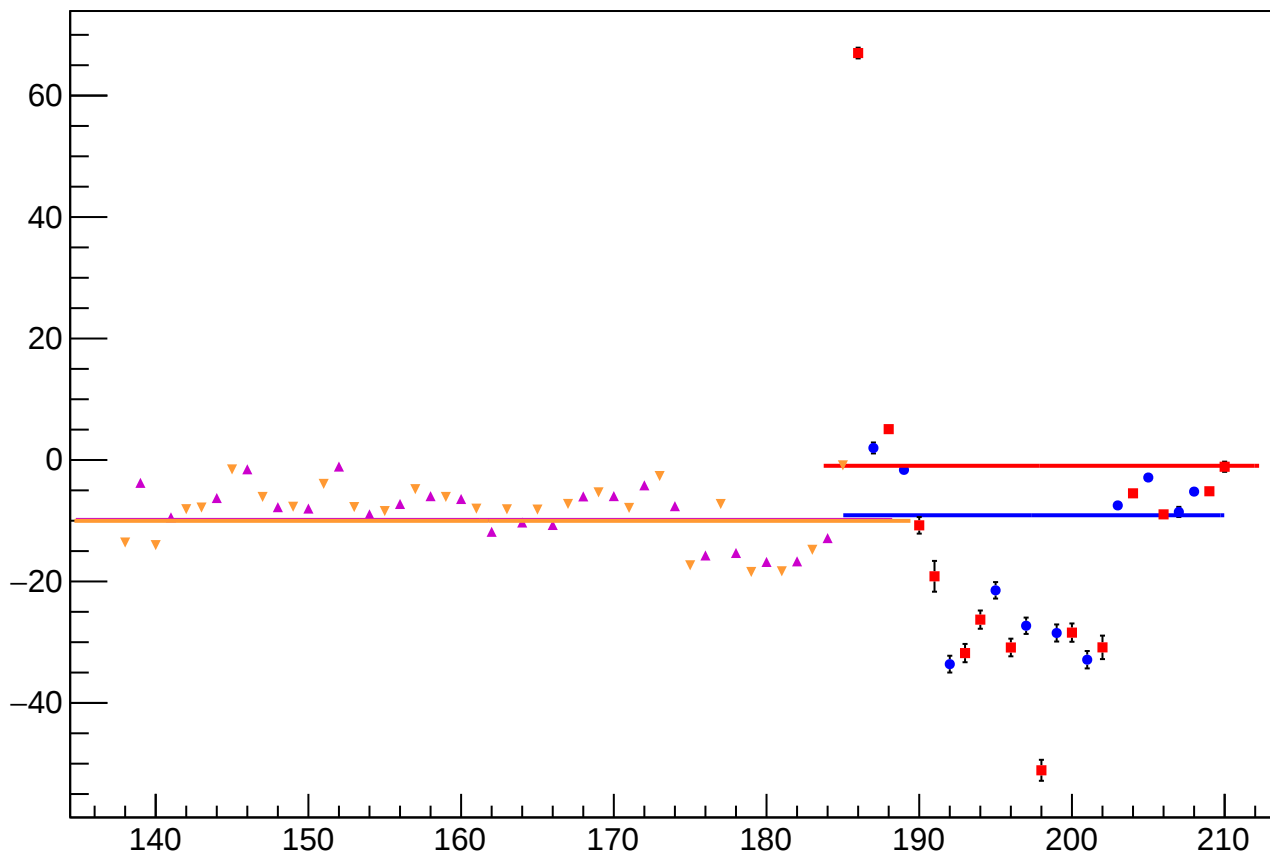
Right: -0.893 ± 0.030 χ^2/NDF : 1114.9/24

In: -0.012 ± 0.006 χ^2/NDF : 3086.3/33

Out: -0.033 ± 0.006 χ^2/NDF : 2762.7/38

All: -0.023 ± 0.005 χ^2/NDF : 5854.5/72

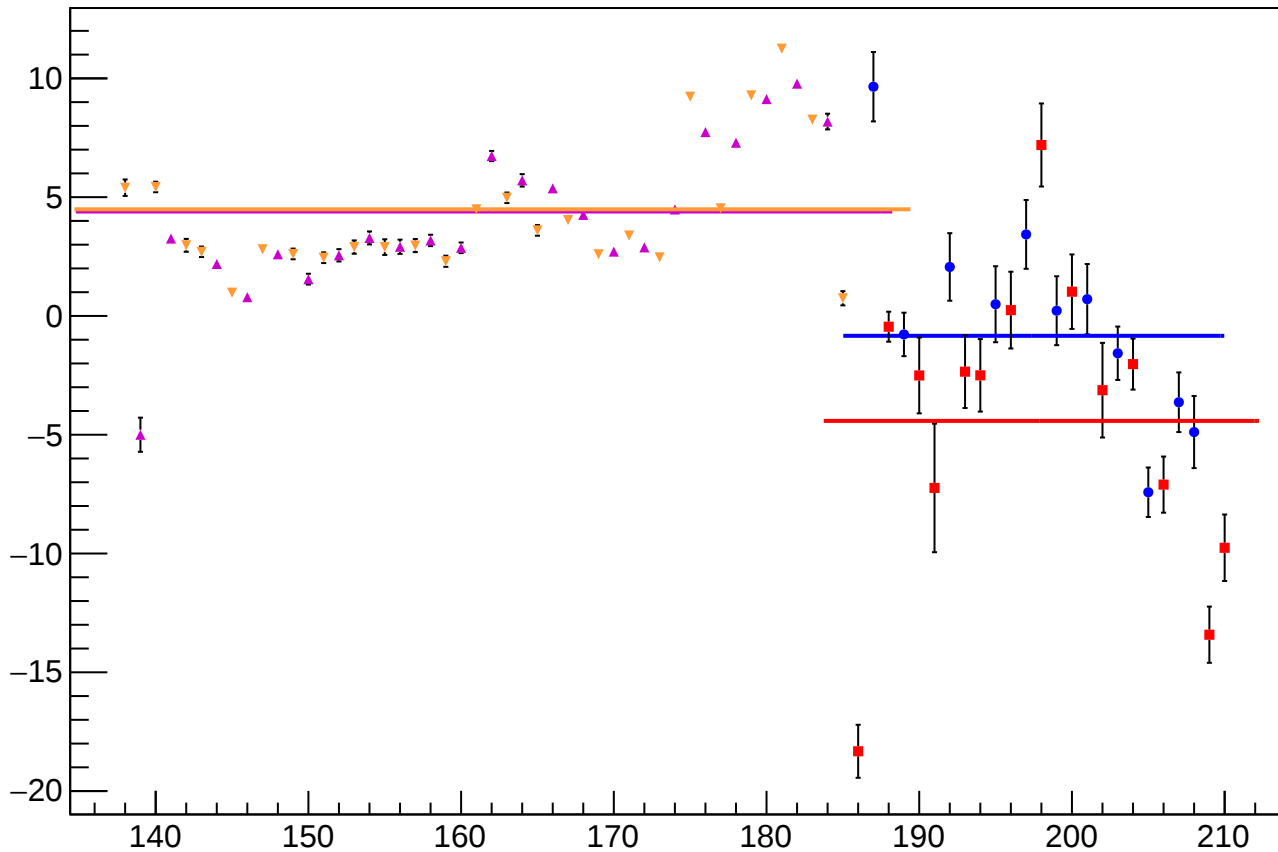
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.101 ± 0.280 $\chi^2/\text{NDF}: 1410.2/10$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.954 ± 0.242 $\chi^2/\text{NDF}: 8915.5/13$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -4.435 ± 0.183 $\chi^2/\text{NDF}: 10810.7/24$
 In: -9.840 ± 0.051 $\chi^2/\text{NDF}: 10762.8/33$
 Out: -9.636 ± 0.050 $\chi^2/\text{NDF}: 22813.8/38$
 All: -9.736 ± 0.035 $\chi^2/\text{NDF}: 33584.9/72$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.836 ± 0.385 χ^2/NDF : 119.2/10

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.418 ± 0.336 χ^2/NDF : 348.2/13

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

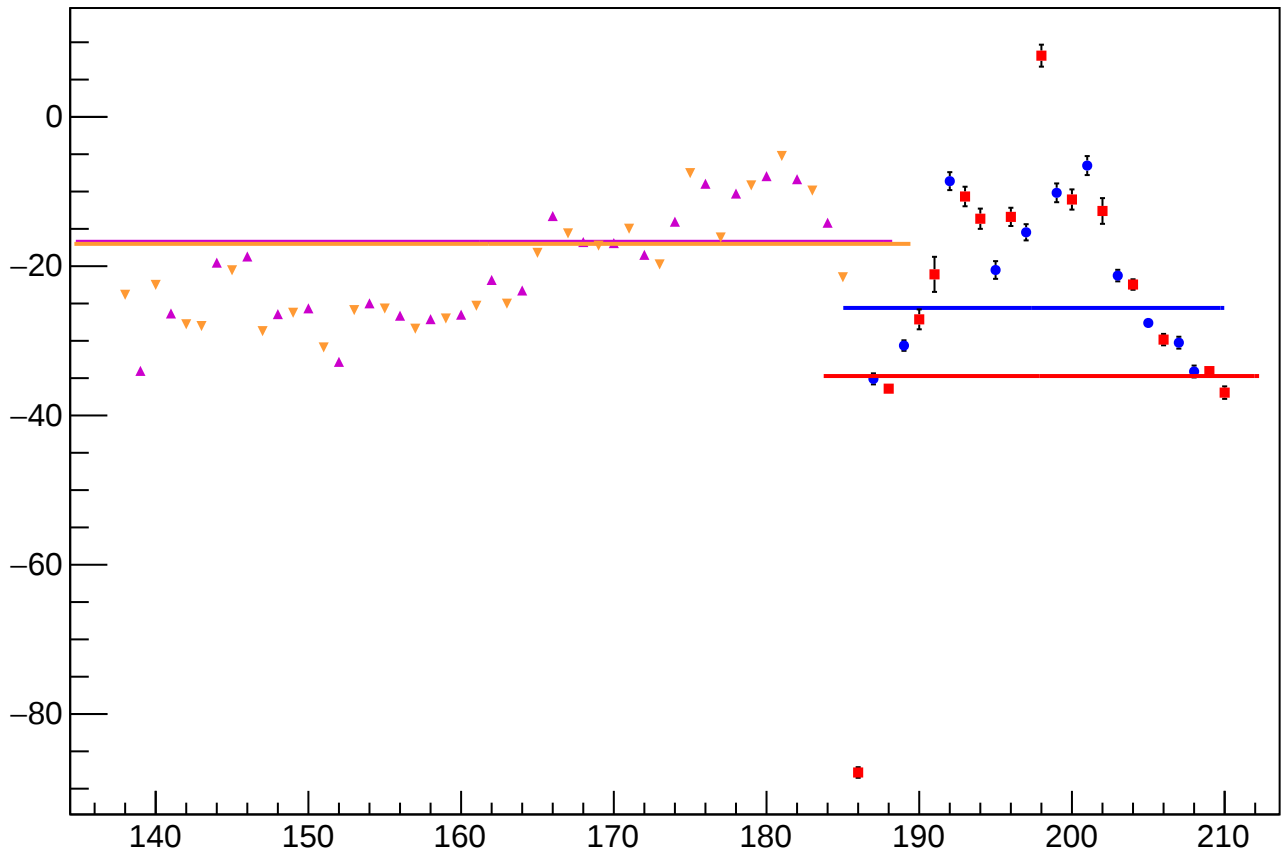
Right: -2.872 ± 0.253 χ^2/NDF : 516.6/24

In: 4.337 ± 0.041 χ^2/NDF : 4532.1/33

Out: 4.360 ± 0.040 χ^2/NDF : 5874.8/38

All: 4.348 ± 0.029 χ^2/NDF : 10407.1/72

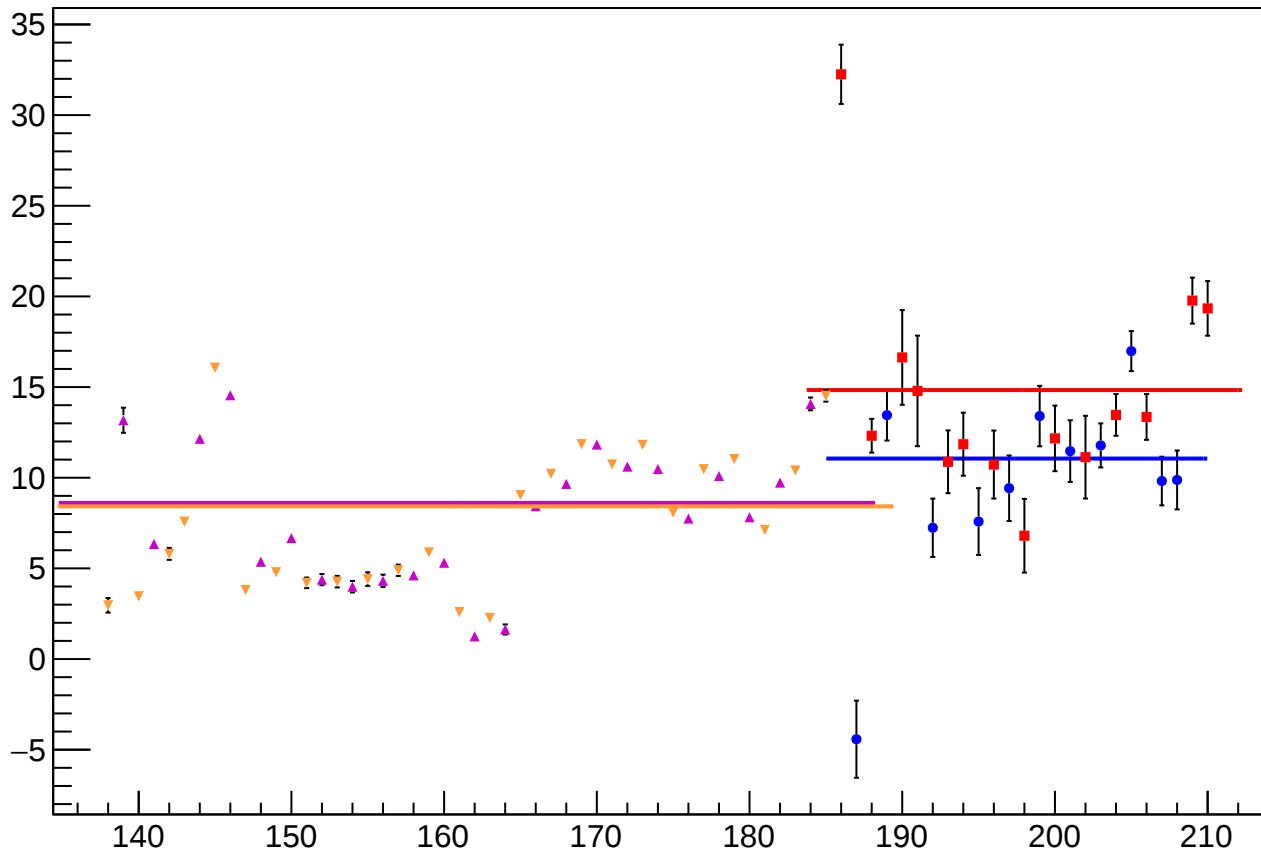
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -25.593 ± 0.263 $\chi^2/\text{NDF}: 1084.6/10$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.718 ± 0.217 $\chi^2/\text{NDF}: 8225.3/13$
 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: -31.023 ± 0.168 $\chi^2/\text{NDF}: 10024.7/24$
 In: -17.059 ± 0.051 $\chi^2/\text{NDF}: 20953.0/33$
 Out: -17.936 ± 0.050 $\chi^2/\text{NDF}: 36620.7/38$
 All: -17.505 ± 0.035 $\chi^2/\text{NDF}: 57726.9/72$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.057 ± 0.454 χ^2/NDF : 98.4/10

Left Out: 8.422 ± 0.046 χ^2/NDF : 6470.1/24

Right Out: 14.837 ± 0.411 χ^2/NDF : 181.5/13

Left In: 8.606 ± 0.046 χ^2/NDF : 5504.2/22

Left: 8.513 ± 0.032 χ^2/NDF : 11982.4/47

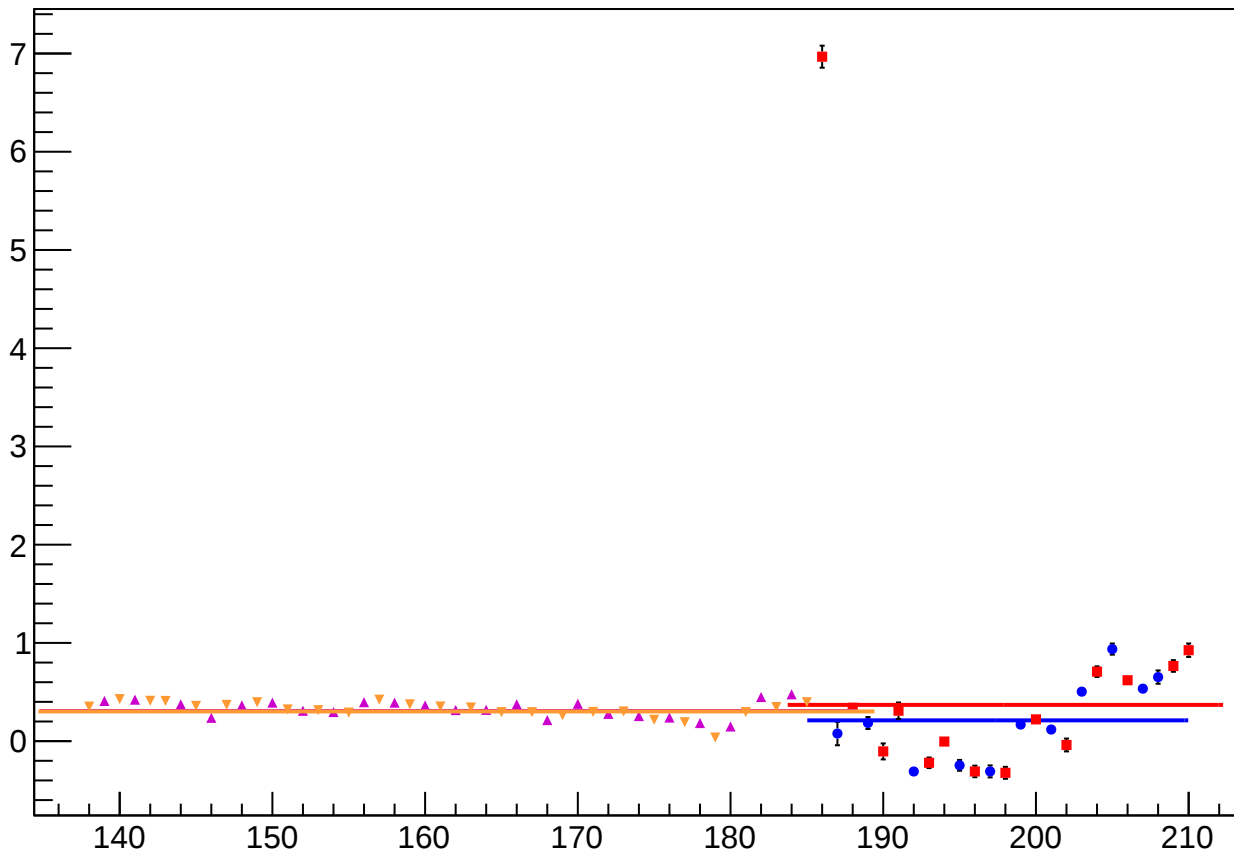
Right: 13.133 ± 0.305 χ^2/NDF : 318.0/24

In: 8.632 ± 0.046 χ^2/NDF : 5631.5/33

Out: 8.500 ± 0.045 χ^2/NDF : 6892.1/38

All: 8.565 ± 0.032 χ^2/NDF : 12527.8/72

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.212 ± 0.017 $\chi^2/\text{NDF}: 534.3/10$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.369 ± 0.016 $\chi^2/\text{NDF}: 4153.7/13$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

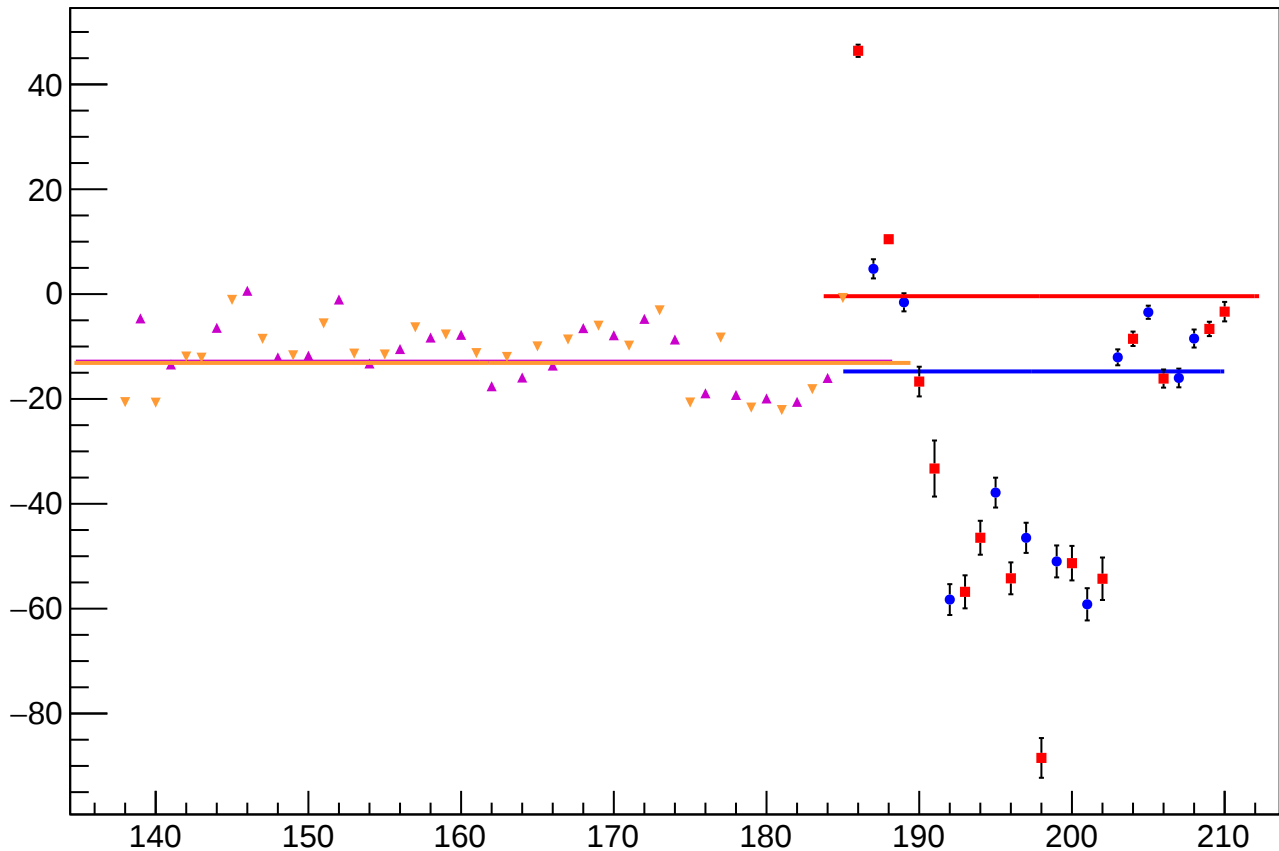
Right: 0.296 ± 0.011 $\chi^2/\text{NDF}: 4734.8/24$

In: 0.306 ± 0.002 $\chi^2/\text{NDF}: 2265.5/33$

Out: 0.304 ± 0.002 $\chi^2/\text{NDF}: 5762.4/38$

All: 0.305 ± 0.001 $\chi^2/\text{NDF}: 8028.4/72$

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.751 ± 0.585 $\chi^2/\text{NDF}: 1026.7/10$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.399 ± 0.485 $\chi^2/\text{NDF}: 3749.3/13$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

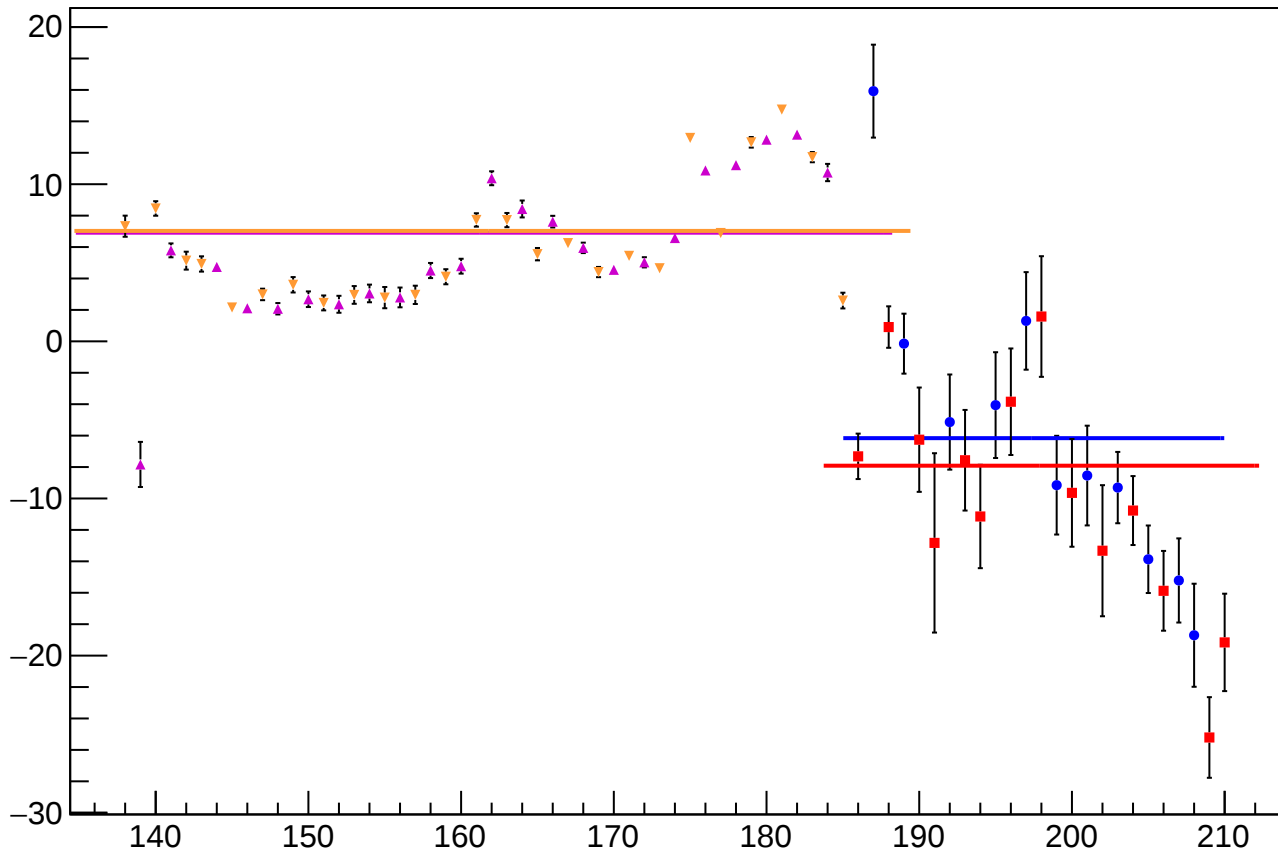
Right: -6.243 ± 0.373 $\chi^2/\text{NDF}: 5133.2/24$

In: -12.933 ± 0.094 $\chi^2/\text{NDF}: 5812.8/33$

Out: -12.667 ± 0.092 $\chi^2/\text{NDF}: 10391.9/38$

All: -12.797 ± 0.066 $\chi^2/\text{NDF}: 16208.8/72$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.161 ± 0.807 χ^2/NDF : 114.3/10

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -7.914 ± 0.662 χ^2/NDF : 126.5/13

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

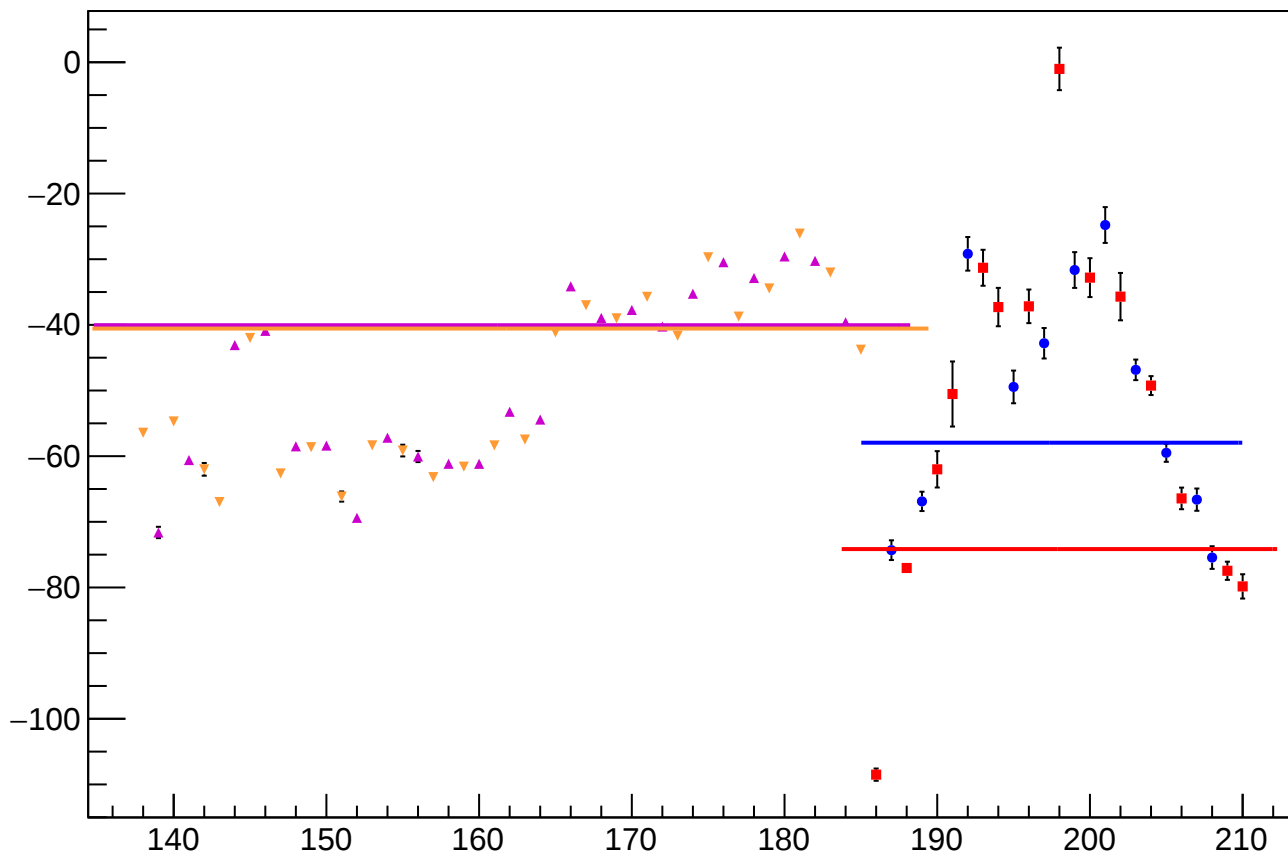
Right: -7.209 ± 0.512 χ^2/NDF : 243.6/24

In: 6.794 ± 0.077 χ^2/NDF : 2802.4/33

Out: 6.827 ± 0.077 χ^2/NDF : 3294.1/38

All: 6.811 ± 0.054 χ^2/NDF : 6096.6/72

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.949 ± 0.551 χ^2/NDF : 757.7/10

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.151 ± 0.429 χ^2/NDF : 3173.2/13

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

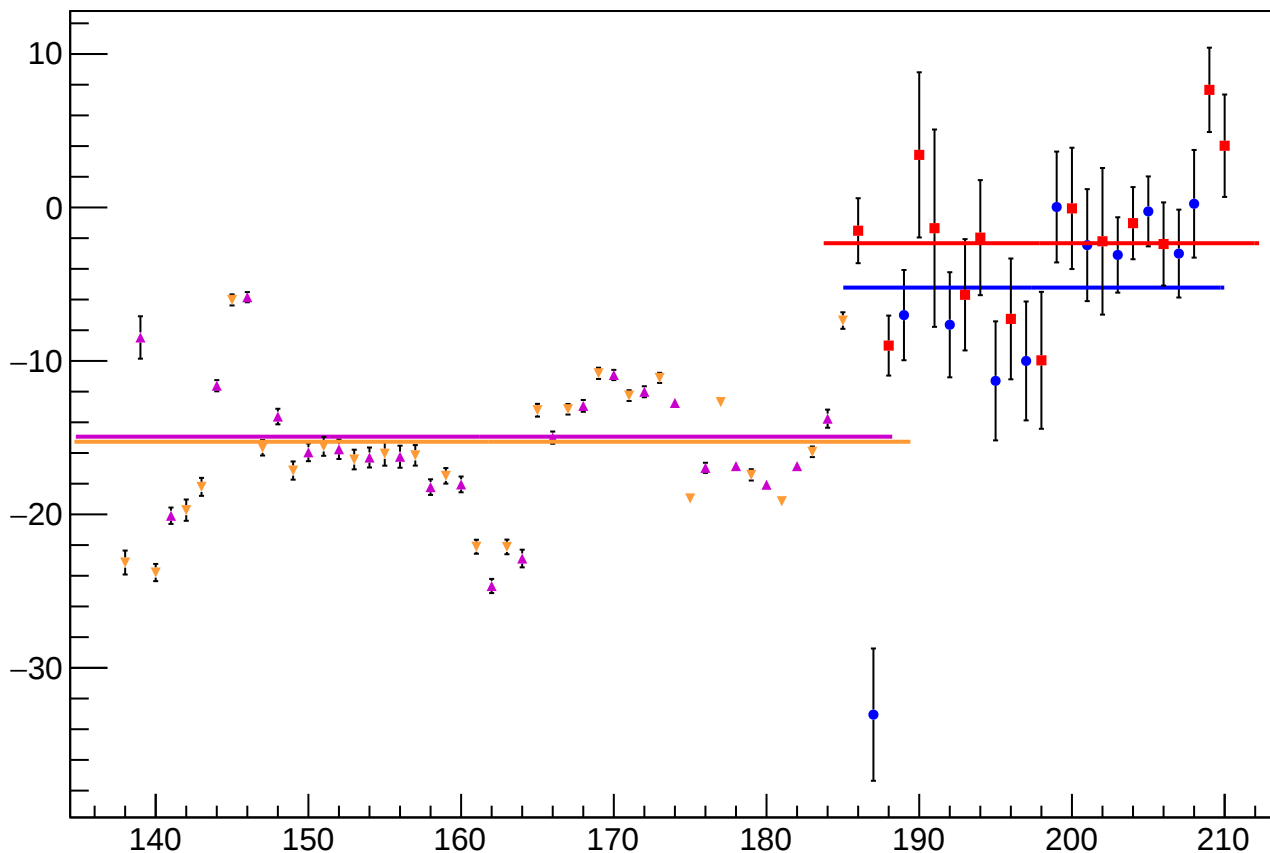
Right: -68.032 ± 0.338 χ^2/NDF : 4469.8/24

In: -40.578 ± 0.094 χ^2/NDF : 15710.6/33

Out: -42.125 ± 0.093 χ^2/NDF : 24659.3/38

All: -41.366 ± 0.066 χ^2/NDF : 40507.3/72

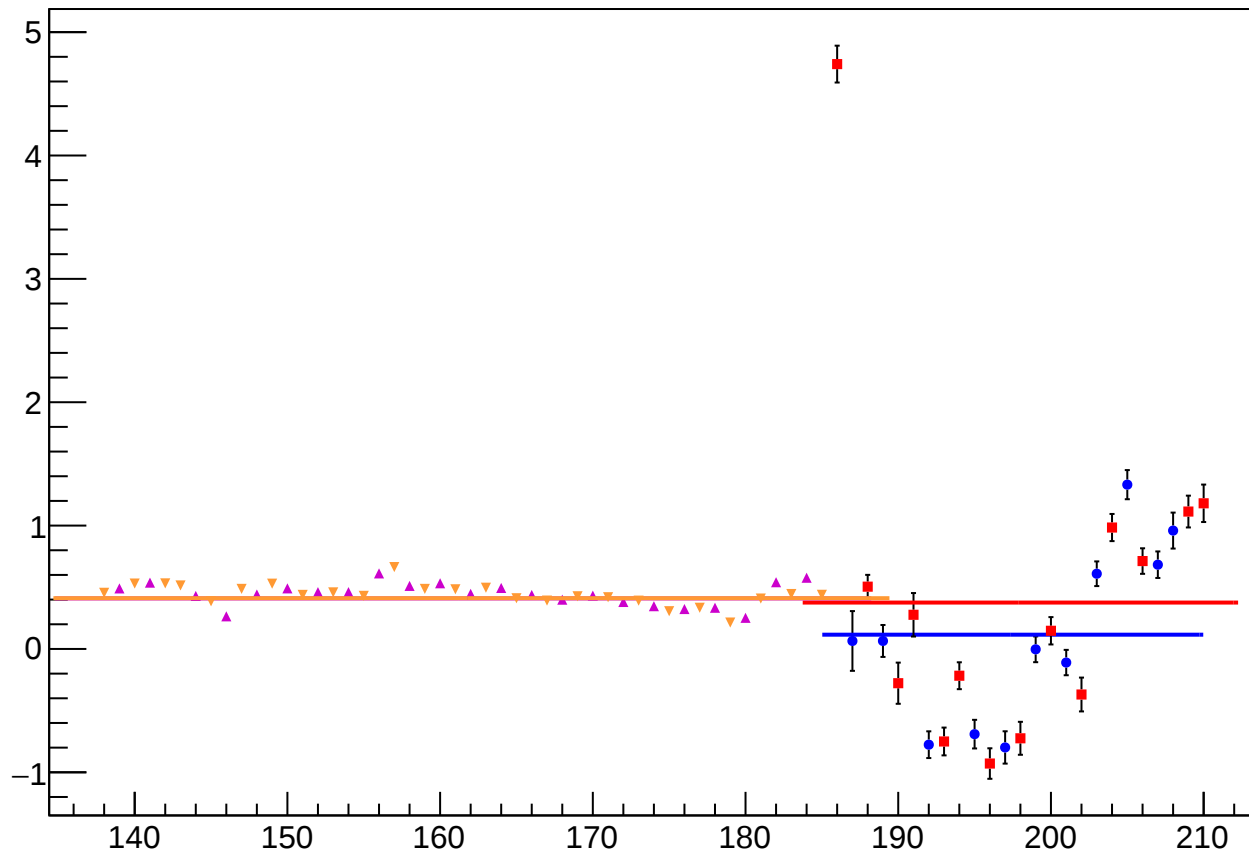
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.221 ± 0.953 $\chi^2/\text{NDF}: 57.7/10$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.329 ± 0.830 $\chi^2/\text{NDF}: 35.8/13$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -3.576 ± 0.626 $\chi^2/\text{NDF}: 98.8/24$
 In: -14.856 ± 0.086 $\chi^2/\text{NDF}: 2360.5/33$
 Out: -15.128 ± 0.085 $\chi^2/\text{NDF}: 2871.7/38$
 All: -14.994 ± 0.061 $\chi^2/\text{NDF}: 5237.2/72$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.116+/-0.036 χ^2/NDF : 362.7/10

Left Out: 0.411+/-0.004 χ^2/NDF : 428.7/24

Right Out: 0.376+/-0.033 χ^2/NDF : 1315.9/13

Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

Left: 0.410+/-0.003 χ^2/NDF : 986.7/47

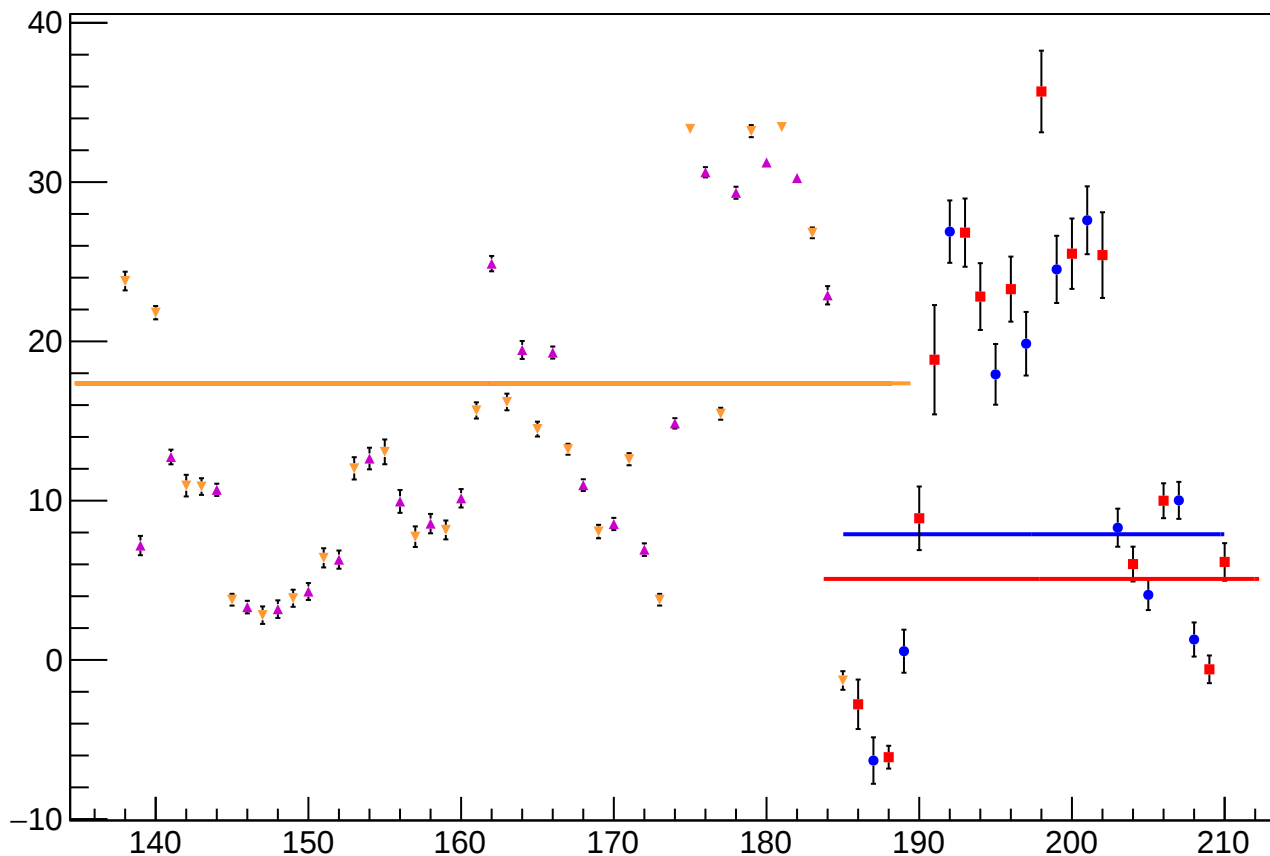
Right: 0.256+/-0.024 χ^2/NDF : 1707.4/24

In: 0.406+/-0.004 χ^2/NDF : 987.6/33

Out: 0.411+/-0.004 χ^2/NDF : 1745.7/38

All: 0.408+/-0.003 χ^2/NDF : 2734.2/72

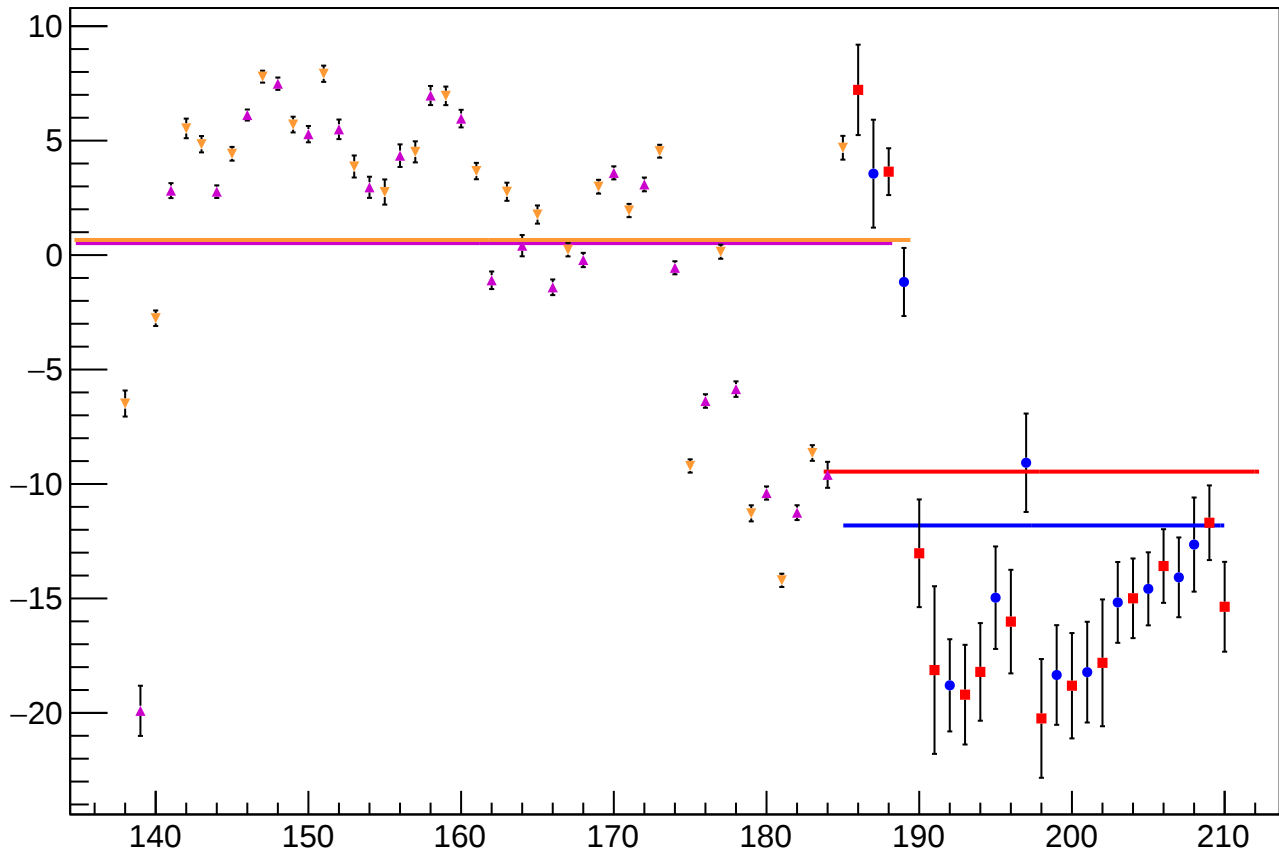
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.892 ± 0.420 $\chi^2/\text{NDF}: 487.3/10$
 Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$
 Right Out: 5.087 ± 0.363 $\chi^2/\text{NDF}: 892.4/13$
 Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$
 Right: 6.285 ± 0.275 $\chi^2/\text{NDF}: 1405.2/24$
 In: 16.950 ± 0.087 $\chi^2/\text{NDF}: 13717.9/33$
 Out: 16.699 ± 0.085 $\chi^2/\text{NDF}: 18312.5/38$
 All: 16.821 ± 0.061 $\chi^2/\text{NDF}: 32034.6/72$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.812 ± 0.578 χ^2/NDF : 135.2/10

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -9.460 ± 0.505 χ^2/NDF : 359.1/13

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

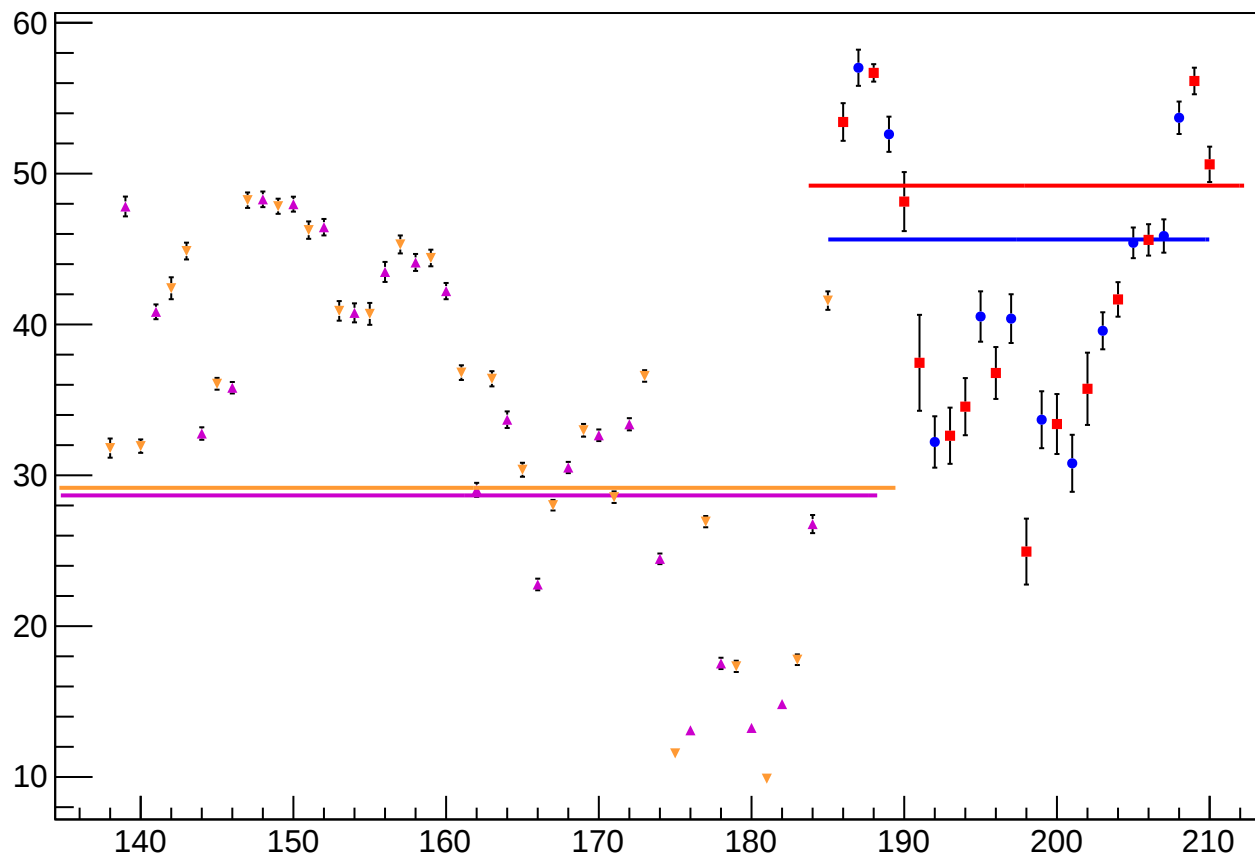
Right: -10.479 ± 0.381 χ^2/NDF : 503.7/24

In: 0.342 ± 0.070 χ^2/NDF : 7313.4/33

Out: 0.474 ± 0.069 χ^2/NDF : 9306.4/38

All: 0.409 ± 0.049 χ^2/NDF : 16621.6/72

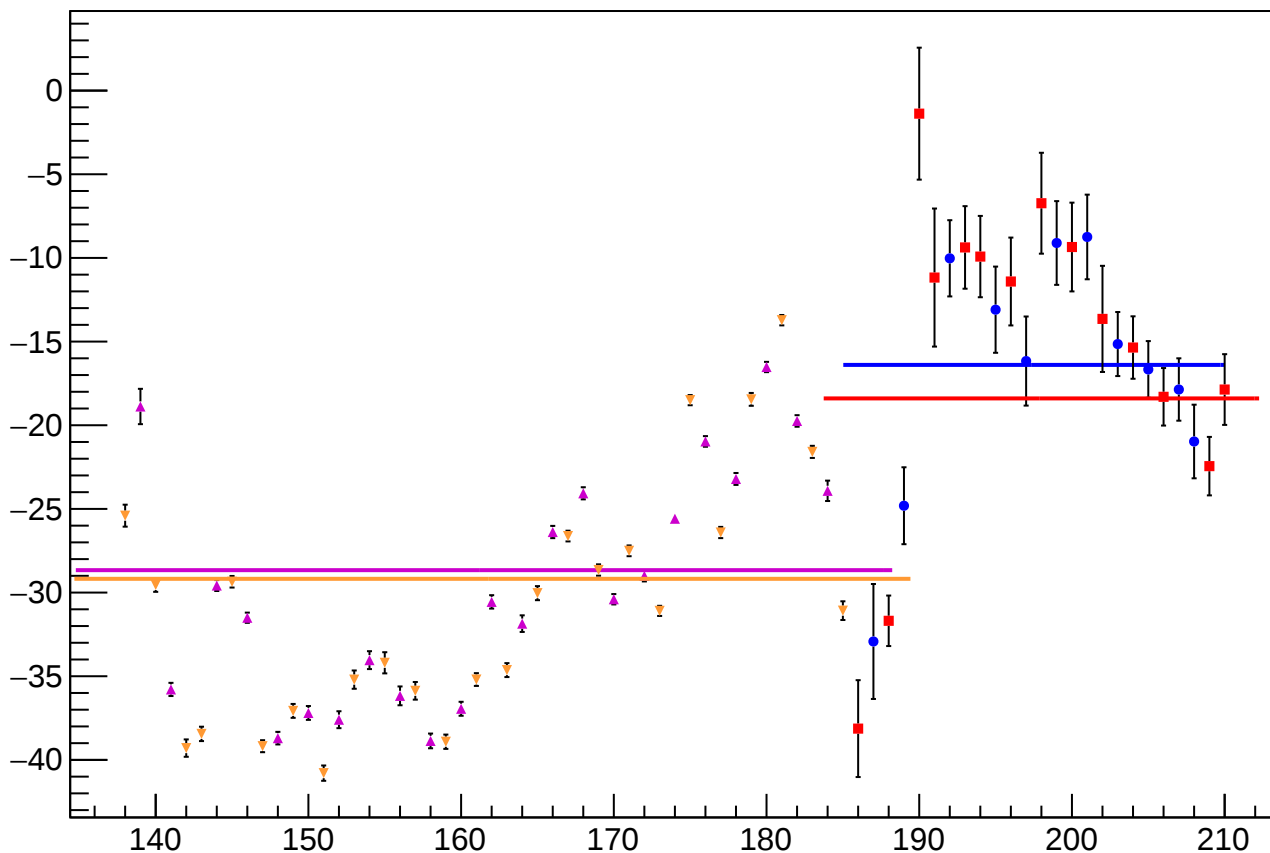
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.635 $\pm$ 0.396 χ^2 /NDF: 390.3/10
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.204 $\pm$ 0.329 χ^2 /NDF: 720.3/13
 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: 47.743 $\pm$ 0.253 χ^2 /NDF: 1158.7/24
 In: 29.487 $\pm$ 0.087 χ^2 /NDF:18989.2/33
 Out: 30.501 $\pm$ 0.085 χ^2 /NDF:23153.7/38
 All: 30.007 $\pm$ 0.061 χ^2 /NDF: 42212.6/72

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.394 ± 0.676 χ^2/NDF : 69.1/10

Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24

Right Out: -18.397 ± 0.610 χ^2/NDF : 215.3/13

Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47

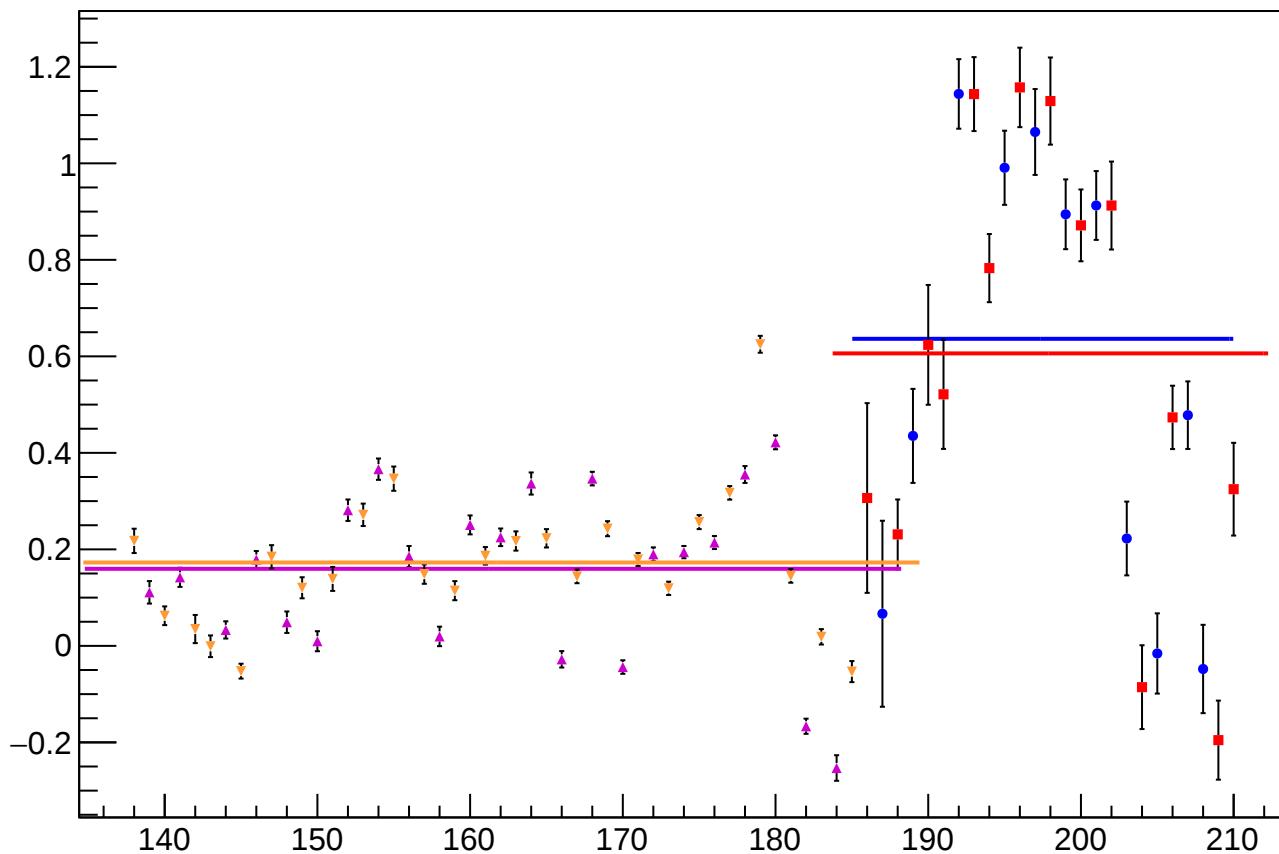
Right: -17.497 ± 0.453 χ^2/NDF : 289.2/24

In: -28.491 ± 0.079 χ^2/NDF : 7064.2/33

Out: -29.004 ± 0.078 χ^2/NDF : 9604.2/38

All: -28.753 ± 0.055 χ^2/NDF : 16689.8/72

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.636 $\pm$ 0.025 χ^2 /NDF: 286.7/10

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.606 $\pm$ 0.023 χ^2 /NDF: 359.4/13

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

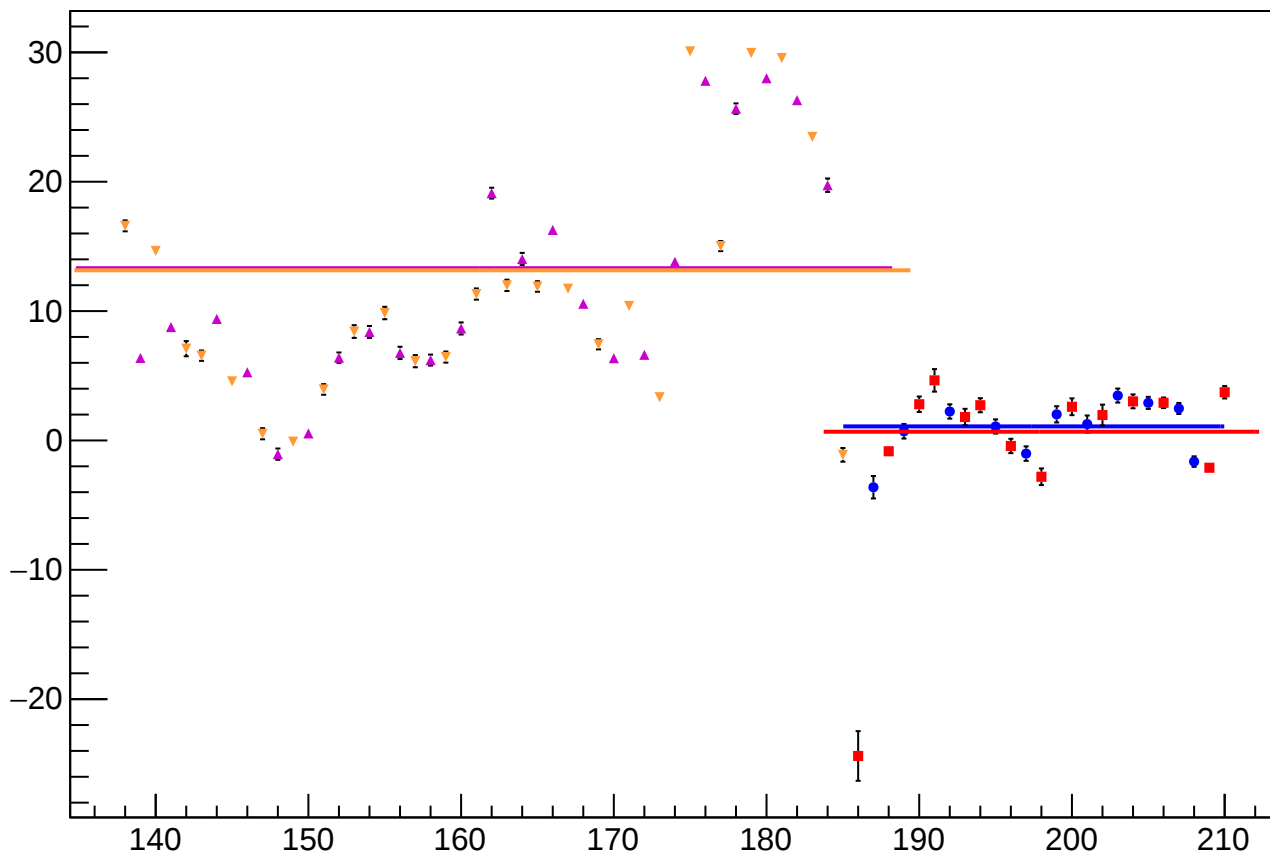
Right: 0.620 $\pm$ 0.017 χ^2 /NDF: 646.8/24

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2710.8/33

Out: 0.183 $\pm$ 0.004 χ^2 /NDF:2190.3/38

All: 0.177 $\pm$ 0.003 χ^2 /NDF: 4908.1/72

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.086+/-0.161 χ^2/NDF : 140.3/10

Left Out: 13.153+/-0.075 χ^2/NDF :17079.7/24

Right Out: 0.675+/-0.135 χ^2/NDF : 452.4/13

Left In: 13.315+/-0.077 χ^2/NDF :13977.7/22

Left: 13.232+/-0.054 χ^2/NDF : 31059.6/47

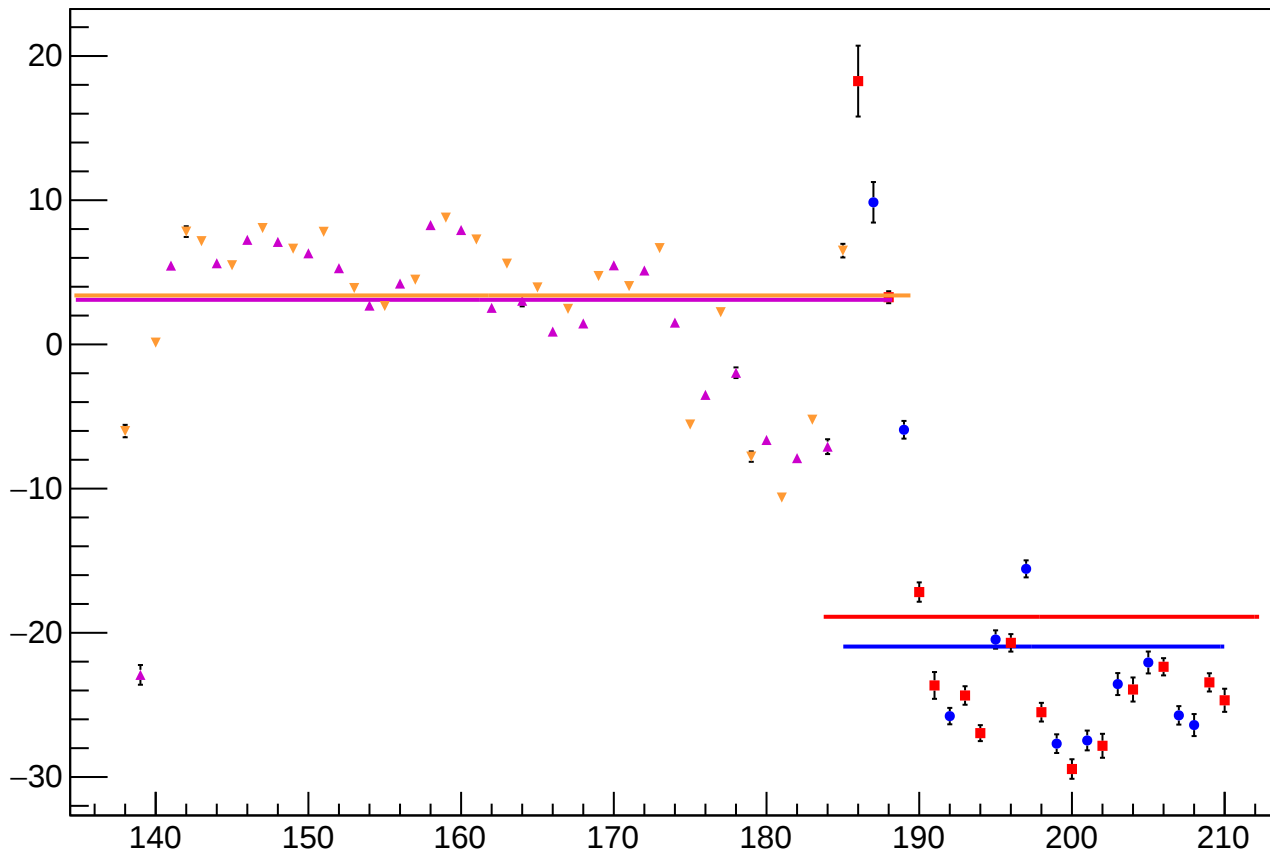
Right: 0.844+/-0.103 χ^2/NDF : 596.5/24

In: 11.034+/-0.070 χ^2/NDF :18810.7/33

Out: 10.191+/-0.066 χ^2/NDF :24063.5/38

All: 10.589+/-0.048 χ^2/NDF : 42951.7/72

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -20.953 ± 0.205 $\chi^2/\text{NDF}: 1553.8/10$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -18.888 ± 0.177 $\chi^2/\text{NDF}: 4051.2/13$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

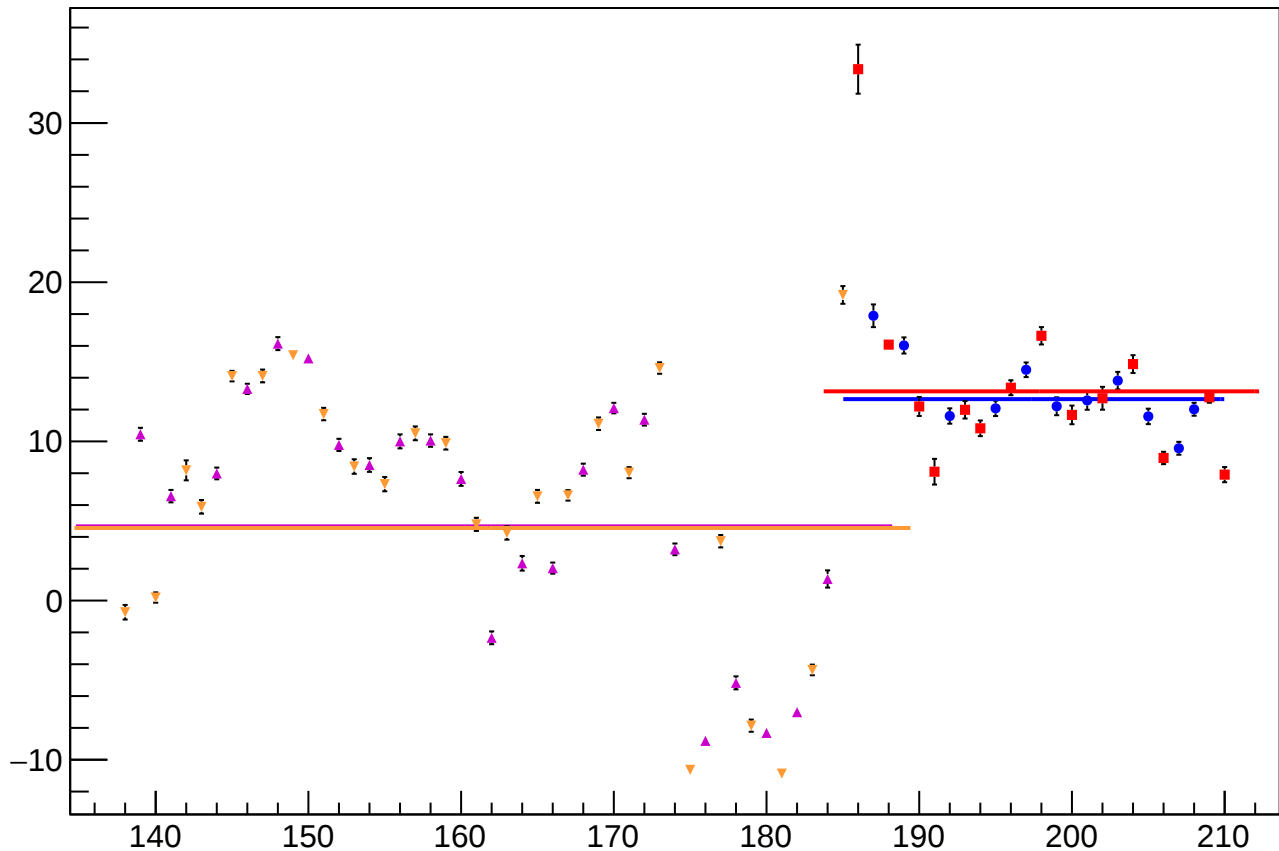
Right: -19.766 ± 0.134 $\chi^2/\text{NDF}: 5663.1/24$

In: 1.168 ± 0.058 $\chi^2/\text{NDF}: 21268.3/33$

Out: 1.200 ± 0.055 $\chi^2/\text{NDF}: 26508.4/38$

All: 1.185 ± 0.040 $\chi^2/\text{NDF}: 47776.8/72$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.655+/-0.149 χ^2/NDF : 191.1/10

Left Out: 4.561+/-0.075 χ^2/NDF : 13592.1/24

Right Out: 13.145+/-0.122 χ^2/NDF : 700.7/13

Left In: 4.662+/-0.077 χ^2/NDF : 11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

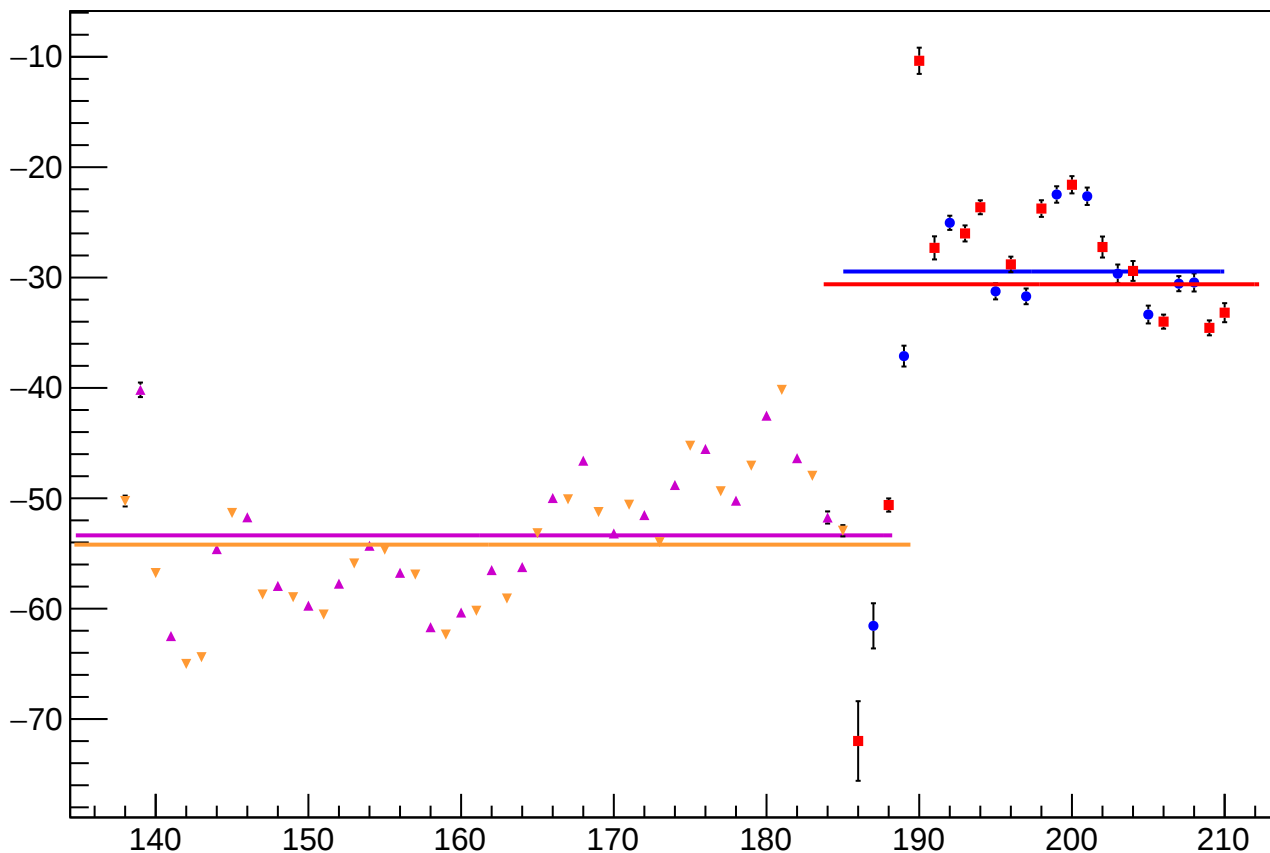
Right: 12.948+/-0.095 χ^2/NDF : 898.3/24

In: 6.335+/-0.068 χ^2/NDF : 13739.9/33

Out: 6.924+/-0.064 χ^2/NDF : 17862.4/38

All: 6.648+/-0.047 χ^2/NDF : 31641.8/72

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.452 ± 0.238 $\chi^2/\text{NDF}: 564.9/10$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -30.609 ± 0.210 $\chi^2/\text{NDF}: 2017.1/13$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

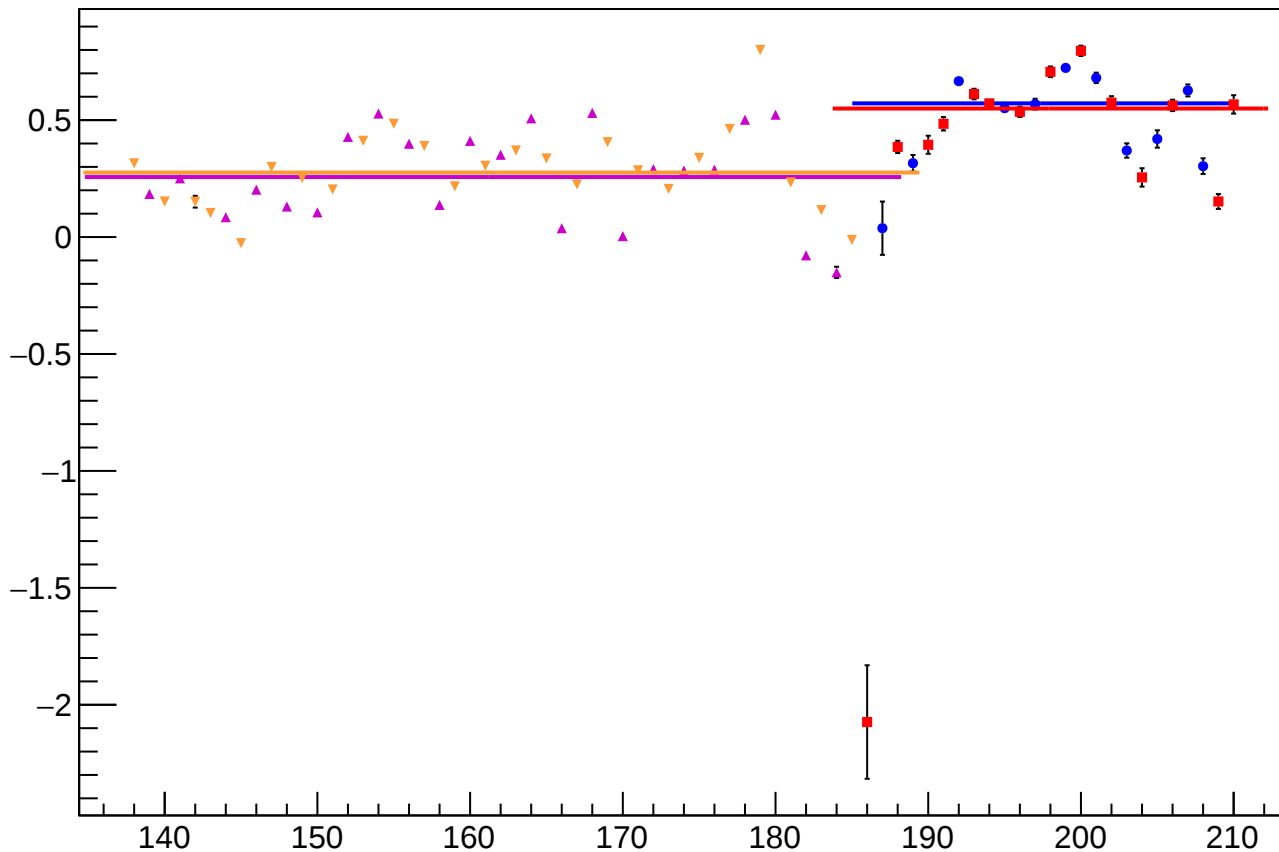
Right: -30.102 ± 0.158 $\chi^2/\text{NDF}: 2595.3/24$

In: -51.531 ± 0.066 $\chi^2/\text{NDF}: 16763.0/33$

Out: -52.060 ± 0.063 $\chi^2/\text{NDF}: 21921.6/38$

All: -51.806 ± 0.046 $\chi^2/\text{NDF}: 38718.1/72$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.572 ± 0.008 χ^2/NDF : 300.0/10

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.550 ± 0.007 χ^2/NDF : 574.9/13

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

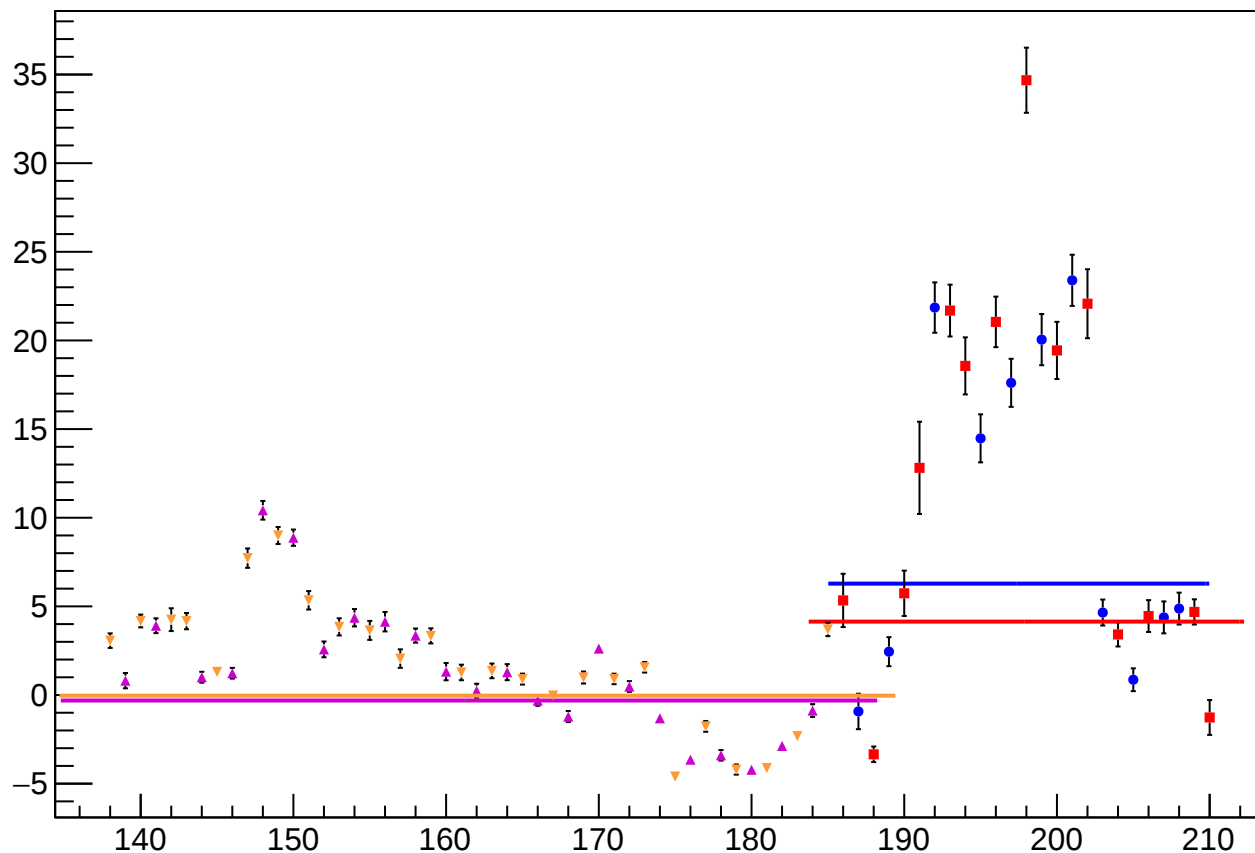
Right: 0.559 ± 0.005 χ^2/NDF : 879.1/24

In: 0.298 ± 0.003 χ^2/NDF : 5280.4/33

Out: 0.318 ± 0.003 χ^2/NDF : 4444.5/38

All: 0.309 ± 0.002 χ^2/NDF : 9749.8/72

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.282 ± 0.291 $\chi^2/\text{NDF}: 614.7/10$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 4.141 ± 0.257 $\chi^2/\text{NDF}: 1152.3/13$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

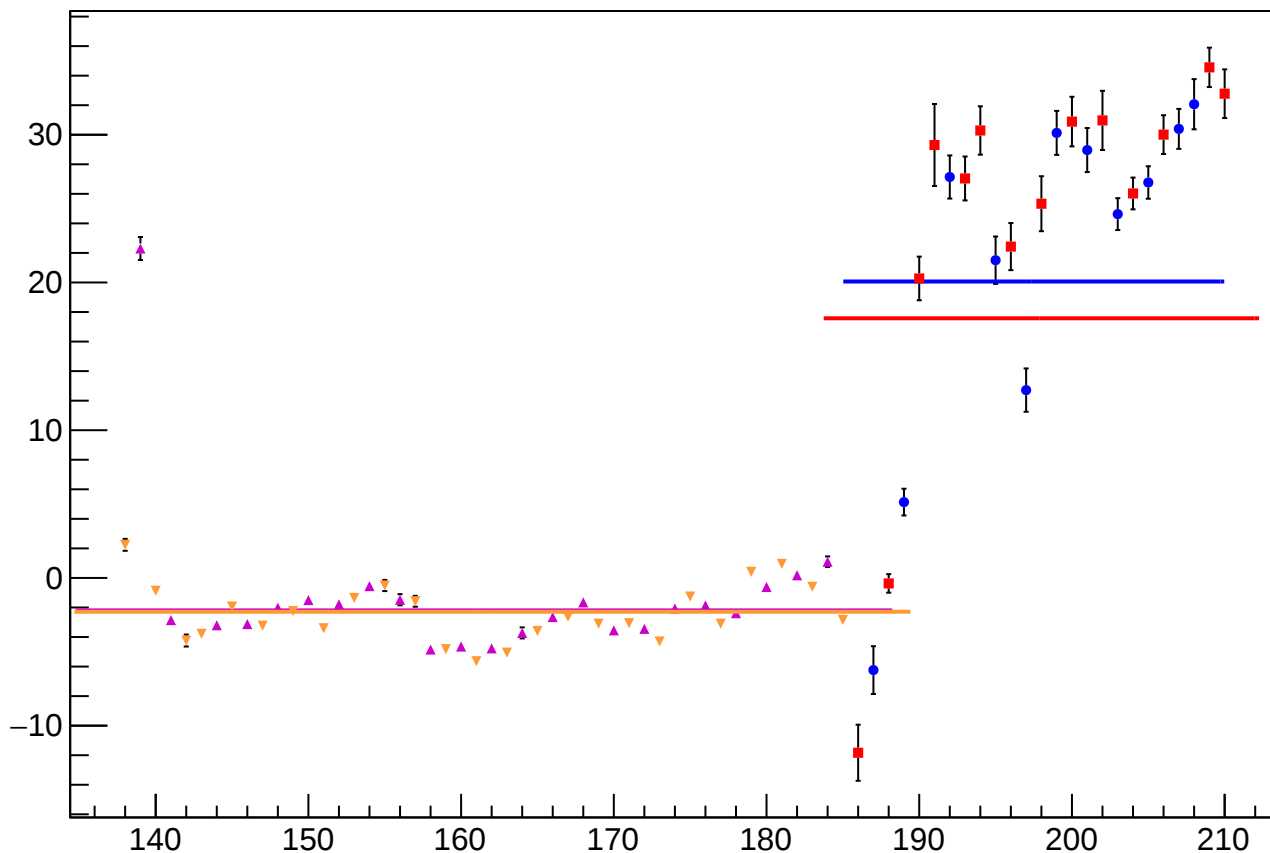
Right: 5.080 ± 0.193 $\chi^2/\text{NDF}: 1797.3/24$

In: 0.024 ± 0.066 $\chi^2/\text{NDF}: 3351.4/33$

Out: 0.221 ± 0.064 $\chi^2/\text{NDF}: 4037.1/38$

All: 0.125 ± 0.046 $\chi^2/\text{NDF}: 7393.1/72$

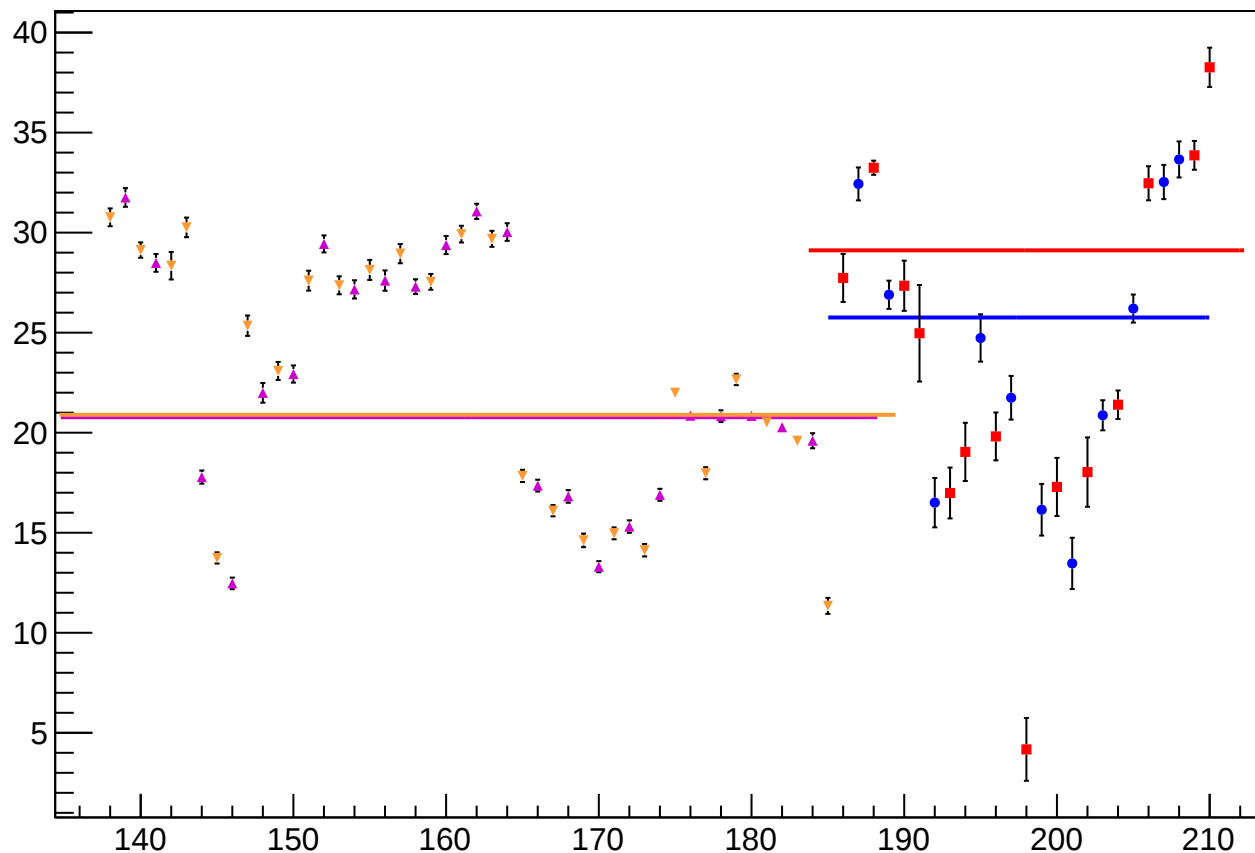
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.067 ± 0.395 $\chi^2/\text{NDF}: 830.5/10$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 17.577 ± 0.356 $\chi^2/\text{NDF}: 1712.8/13$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 18.692 ± 0.264 $\chi^2/\text{NDF}: 2565.3/24$
 In: -1.773 ± 0.055 $\chi^2/\text{NDF}: 5620.0/33$
 Out: -1.839 ± 0.054 $\chi^2/\text{NDF}: 5894.7/38$
 All: -1.807 ± 0.038 $\chi^2/\text{NDF}: 11515.4/72$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.758 $\pm$ 0.274 χ^2 /NDF: 468.5/10

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 29.114 $\pm$ 0.231 χ^2 /NDF: 965.2/13

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

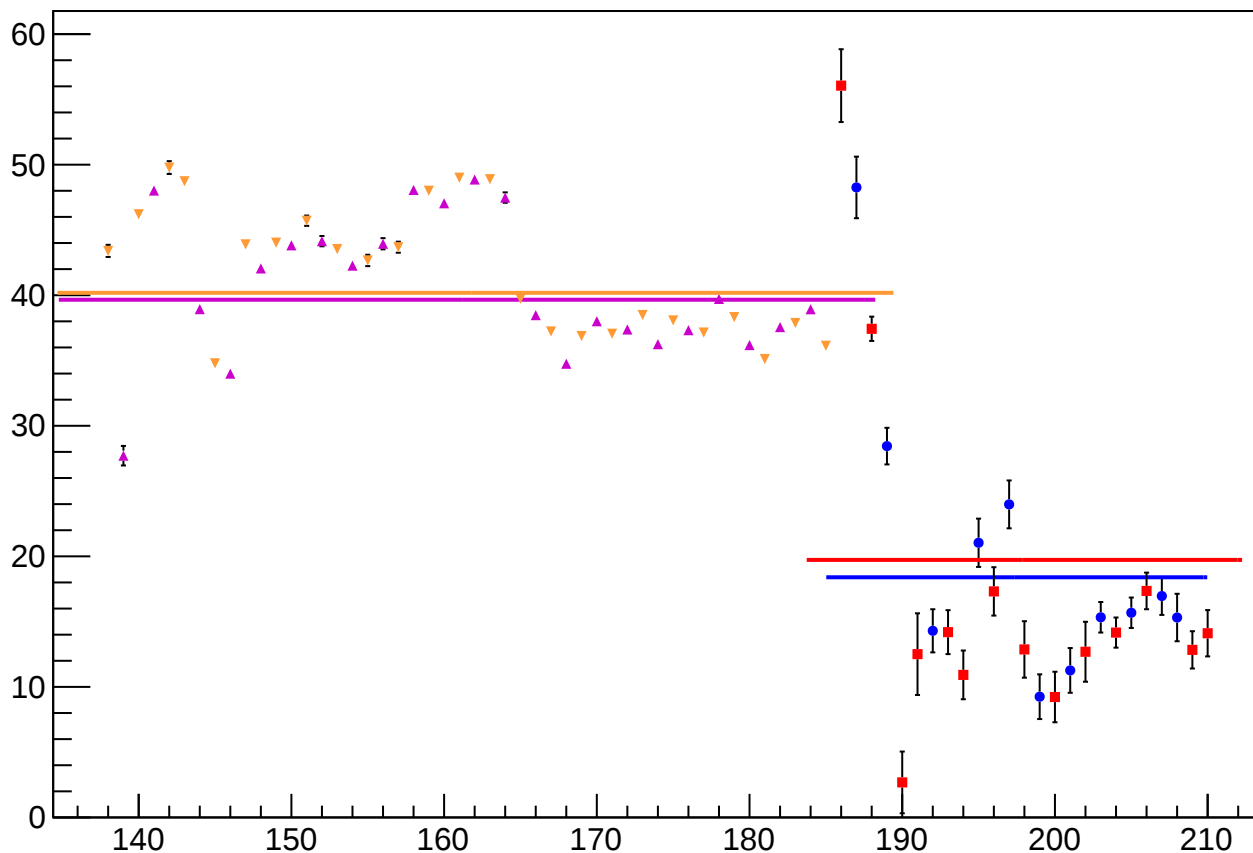
Right: 27.723 $\pm$ 0.176 χ^2 /NDF: 1521.5/24

In: 21.060 $\pm$ 0.066 χ^2 /NDF:6708.0/33

Out: 21.529 $\pm$ 0.064 χ^2 /NDF:8793.0/38

All: 21.300 $\pm$ 0.046 χ^2 /NDF: 15527.2/72

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.396 $\pm$ 0.468 χ^2 /NDF: 291.2/10

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.728 $\pm$ 0.437 χ^2 /NDF: 732.4/13

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

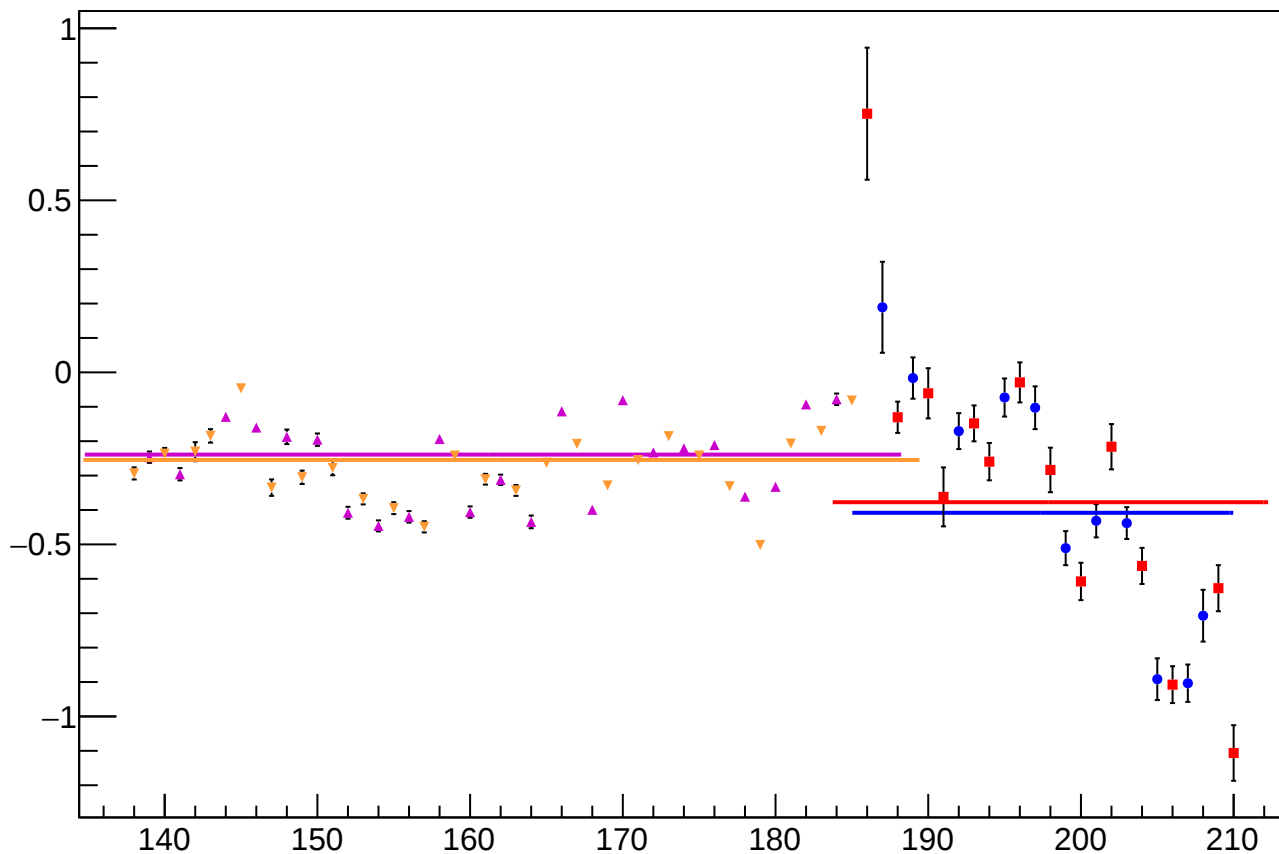
Right: 19.107 $\pm$ 0.319 χ^2 /NDF: 1027.9/24

In: 39.294 $\pm$ 0.061 χ^2 /NDF: 7622.2/33

Out: 39.803 $\pm$ 0.060 χ^2 /NDF: 8815.2/38

All: 39.553 $\pm$ 0.043 χ^2 /NDF: 16472.9/72

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.408 ± 0.017 χ^2/NDF : 311.9/10

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.377 ± 0.016 χ^2/NDF : 374.8/13

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

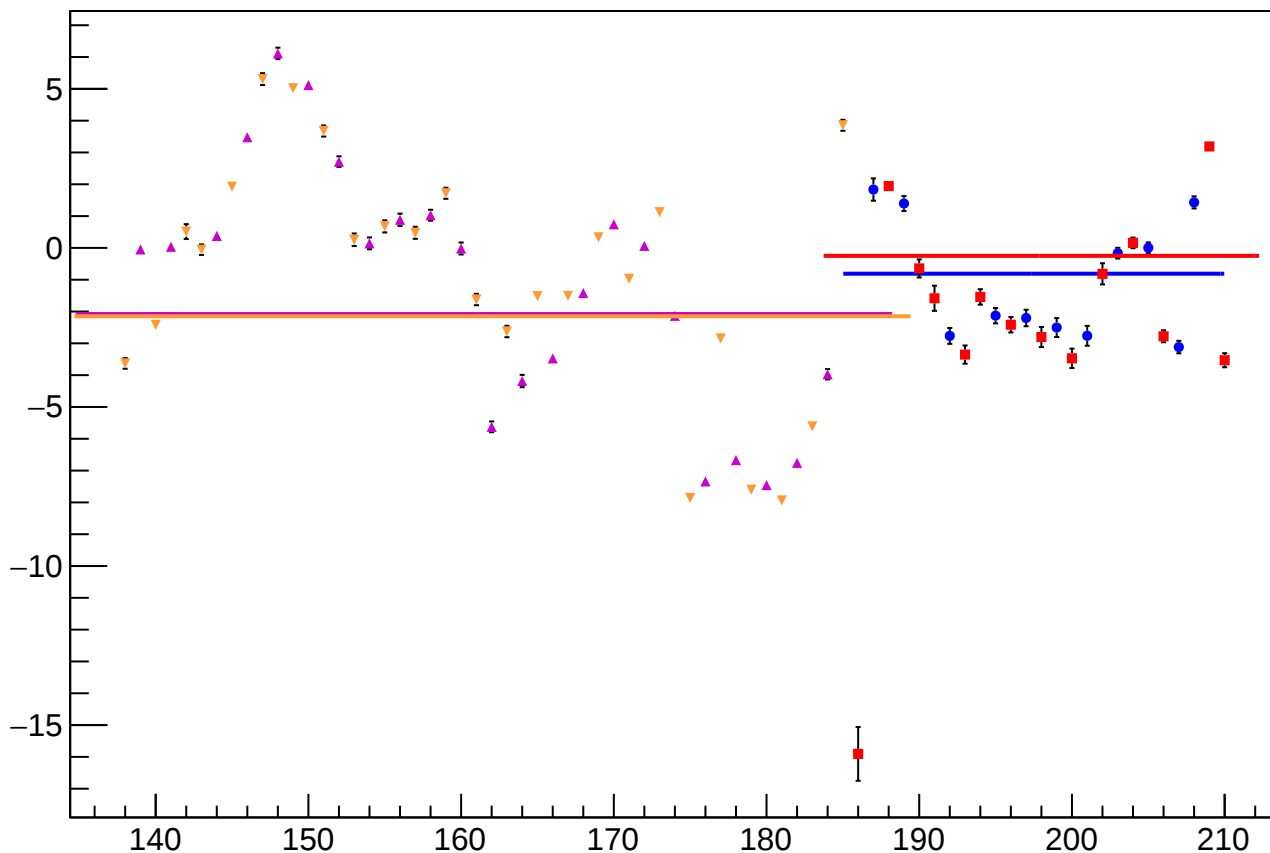
Right: -0.392 ± 0.012 χ^2/NDF : 688.4/24

In: -0.243 ± 0.003 χ^2/NDF : 2156.5/33

Out: -0.258 ± 0.003 χ^2/NDF : 1850.1/38

All: -0.251 ± 0.002 χ^2/NDF : 4020.9/72

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

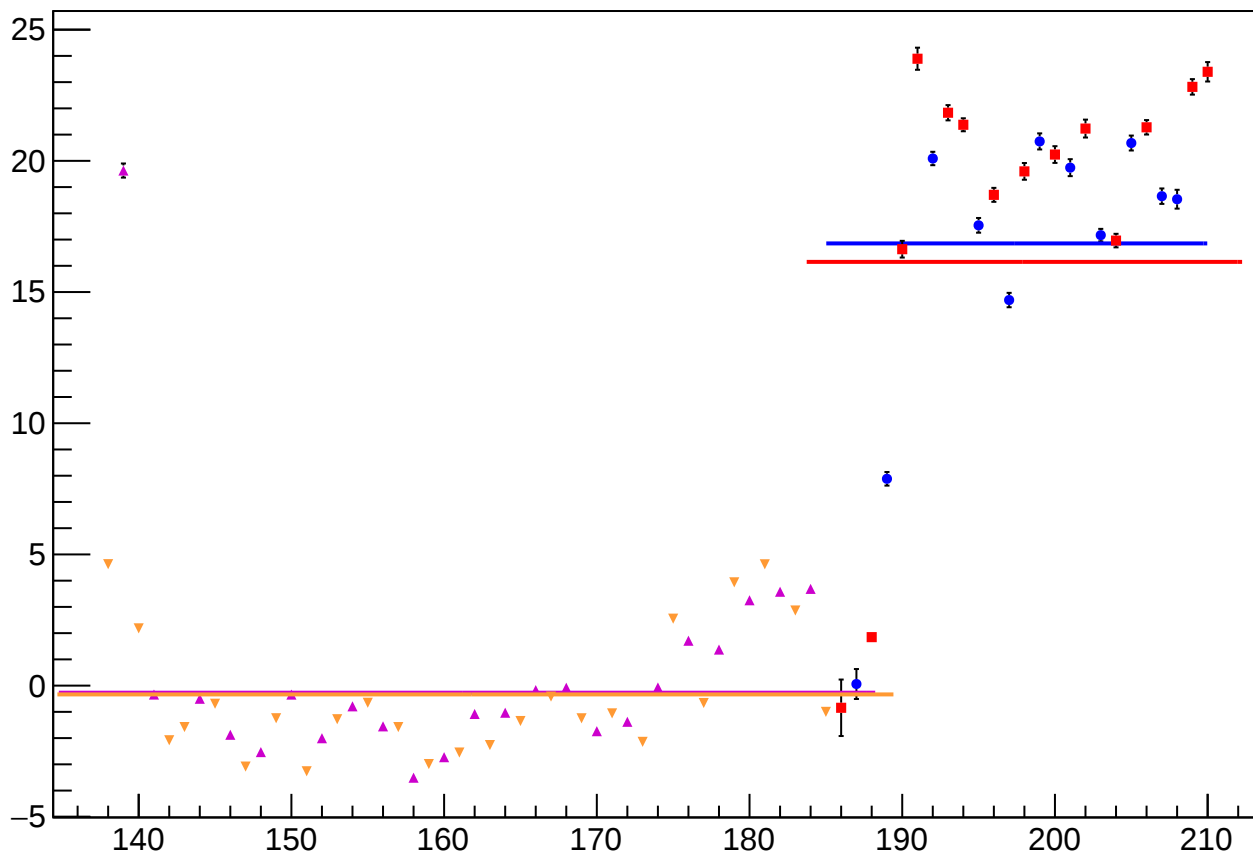


Right In: -0.811 ± 0.068 χ^2/NDF : 650.2/10
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.249 ± 0.057 χ^2/NDF : 2042.4/13
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.485 ± 0.044 χ^2/NDF : 2732.7/24
 In: -1.914 ± 0.024 χ^2/NDF : 24202.3/33
 Out: -1.833 ± 0.023 χ^2/NDF : 27492.0/38

All: -1.872 ± 0.017 χ^2/NDF : 51700.0/72

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.853+/-0.088 χ^2/NDF : 2774.7/10

Left Out: -0.335+/-0.021 χ^2/NDF : 12596.1/24

Right Out: 16.150+/-0.076 χ^2/NDF : 11113.0/13

Left In: -0.269+/-0.021 χ^2/NDF : 13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

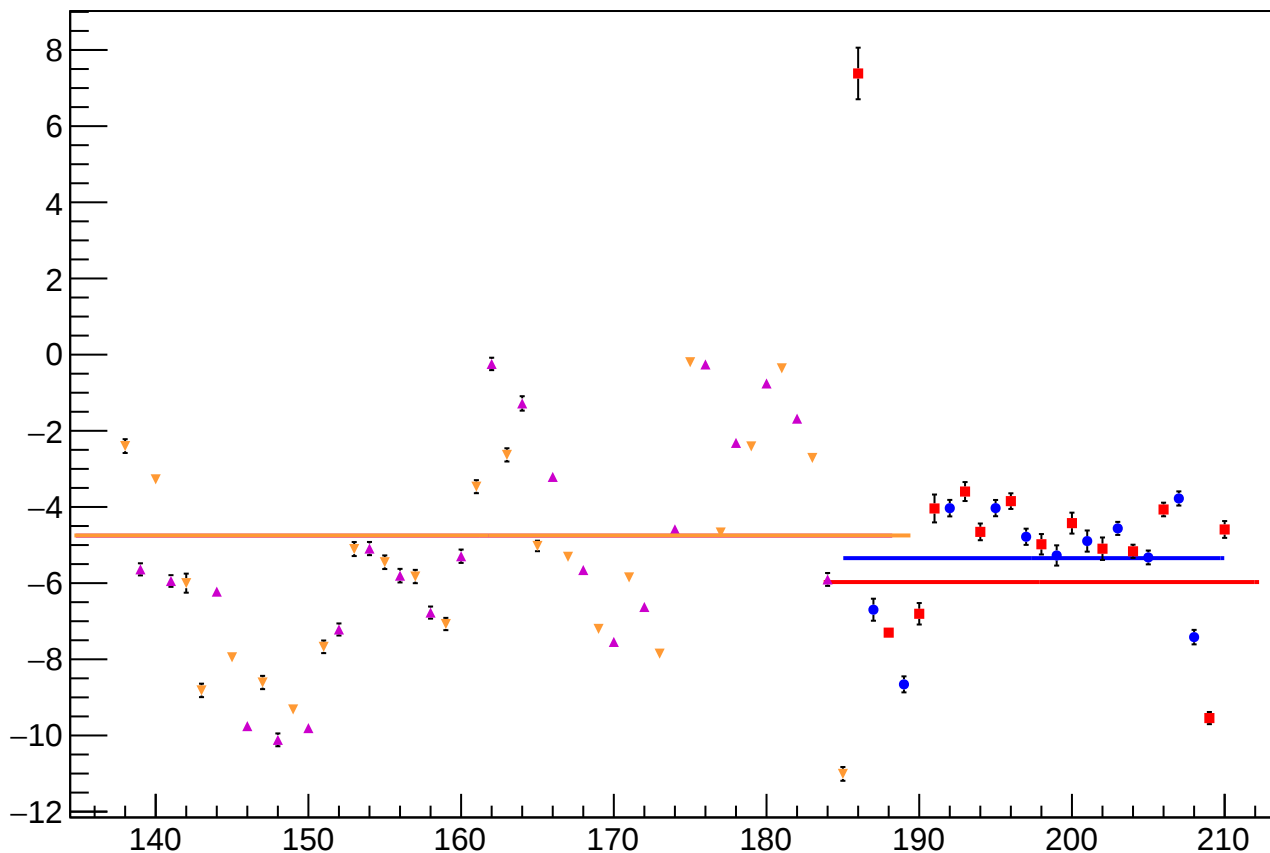
Right: 16.451+/-0.058 χ^2/NDF : 13924.2/24

In: 0.645+/-0.020 χ^2/NDF : 51792.8/33

Out: 0.786+/-0.020 χ^2/NDF : 67325.0/38

All: 0.717+/-0.014 χ^2/NDF : 119142.3/72

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.344 ± 0.064 χ^2/NDF : 565.0/10

Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24

Right Out: -5.972 ± 0.052 χ^2/NDF : 1611.1/13

Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47

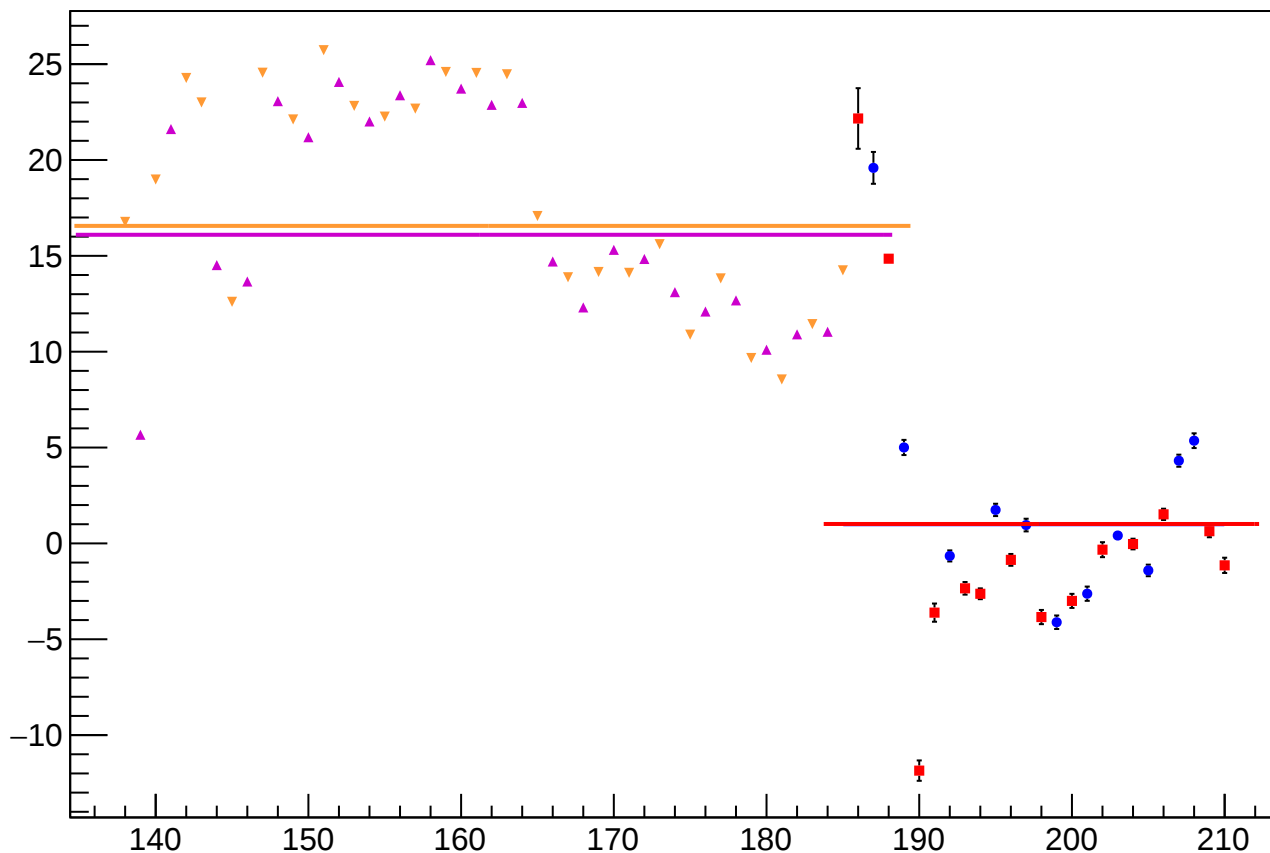
Right: -5.720 ± 0.040 χ^2/NDF : 2234.8/24

In: -4.839 ± 0.024 χ^2/NDF : 14758.1/33

Out: -4.991 ± 0.023 χ^2/NDF : 15347.1/38

All: -4.918 ± 0.017 χ^2/NDF : 30126.0/72

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.000 ± 0.102 $\chi^2/\text{NDF}: 1253.9/10$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.013 ± 0.091 $\chi^2/\text{NDF}: 5016.6/13$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

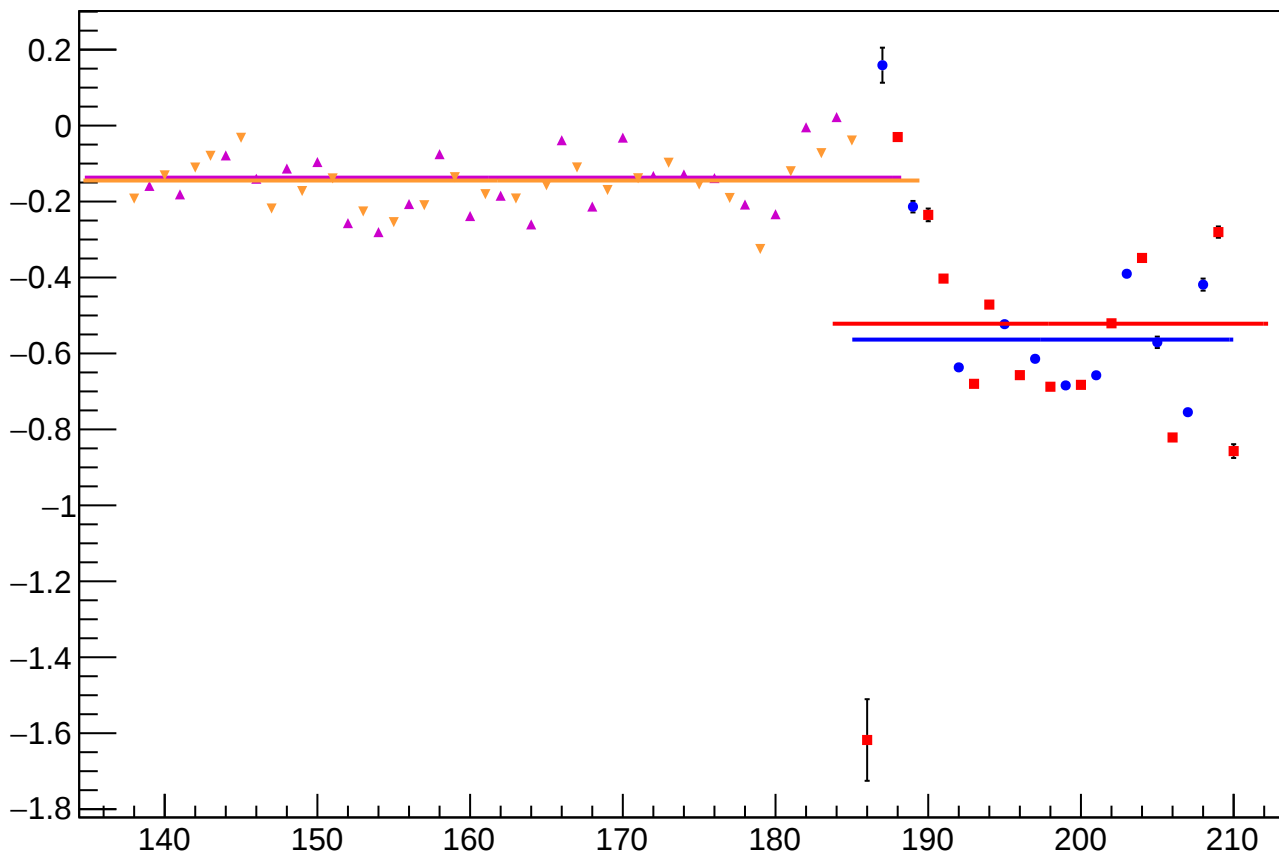
Right: 1.007 ± 0.068 $\chi^2/\text{NDF}: 6270.5/24$

In: 15.331 ± 0.023 $\chi^2/\text{NDF}: 64467.9/33$

Out: 15.617 ± 0.022 $\chi^2/\text{NDF}: 86333.6/38$

All: 15.477 ± 0.016 $\chi^2/\text{NDF}: 150880.7/72$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.564 ± 0.003 χ^2/NDF : 1773.4/10

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 5178.7/13

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

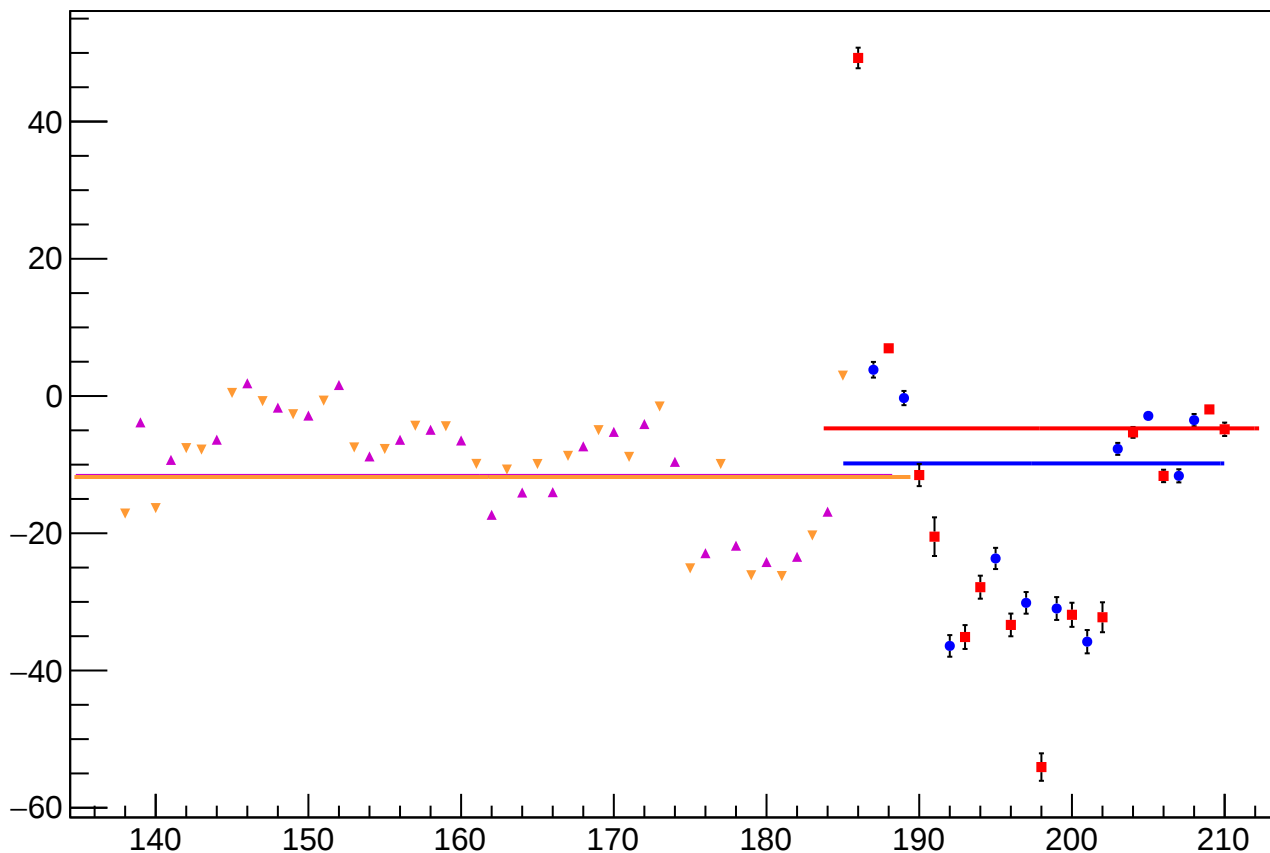
Right: -0.540 ± 0.002 χ^2/NDF : 7031.3/24

In: -0.174 ± 0.001 χ^2/NDF : 20755.4/33

Out: -0.183 ± 0.001 χ^2/NDF : 21958.8/38

All: -0.178 ± 0.001 χ^2/NDF : 42756.6/72

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected

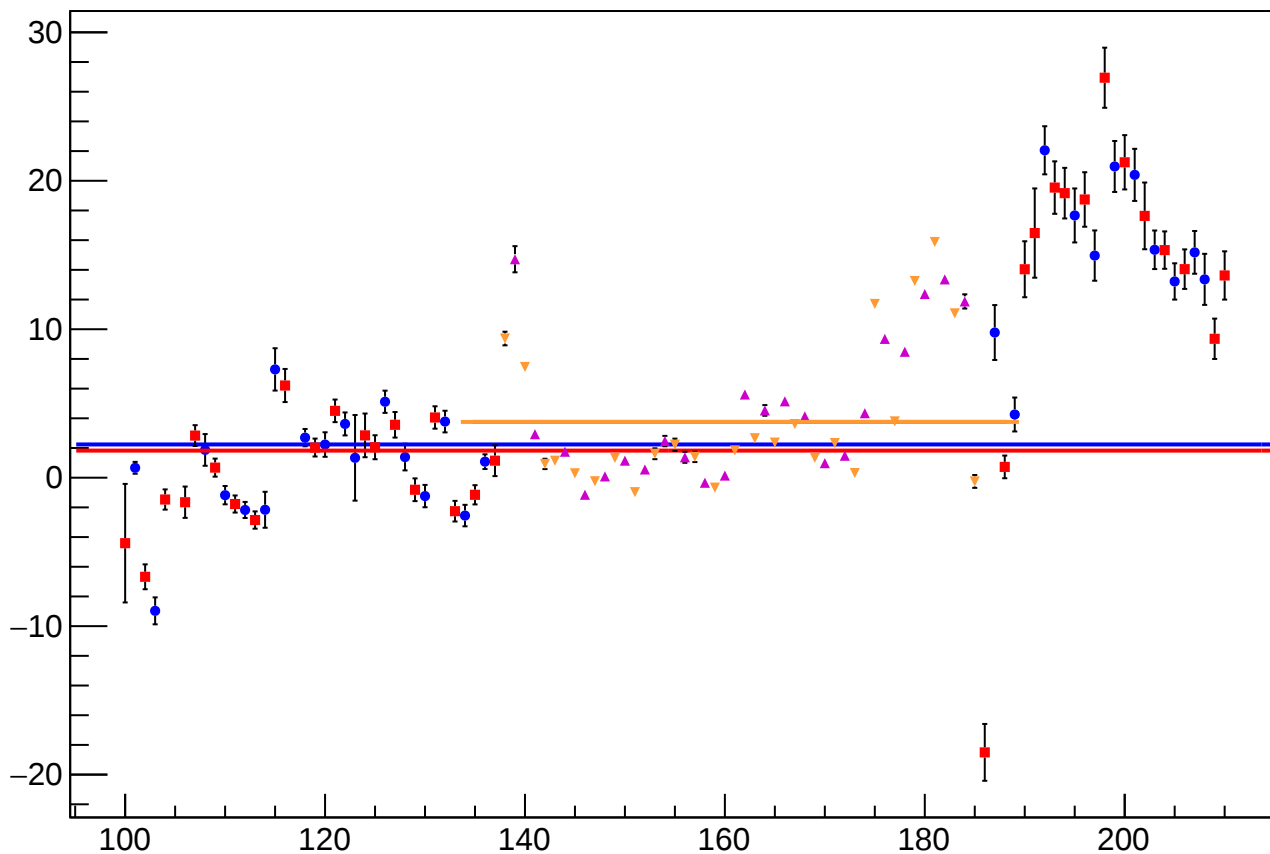


Right In: -9.821 ± 0.330 $\chi^2/\text{NDF}: 1304.6/10$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.714 ± 0.288 $\chi^2/\text{NDF}: 3692.7/13$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: -6.926 ± 0.217 $\chi^2/\text{NDF}: 5133.3/24$
 In: -11.560 ± 0.070 $\chi^2/\text{NDF}: 15454.9/33$
 Out: -11.404 ± 0.068 $\chi^2/\text{NDF}: 21571.4/38$

All: -11.480 ± 0.049 $\chi^2/\text{NDF}: 37028.9/72$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.239 ± 0.160 $\chi^2/\text{NDF}: 1214.6/27$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.825 ± 0.160 $\chi^2/\text{NDF}: 1426.0/32$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

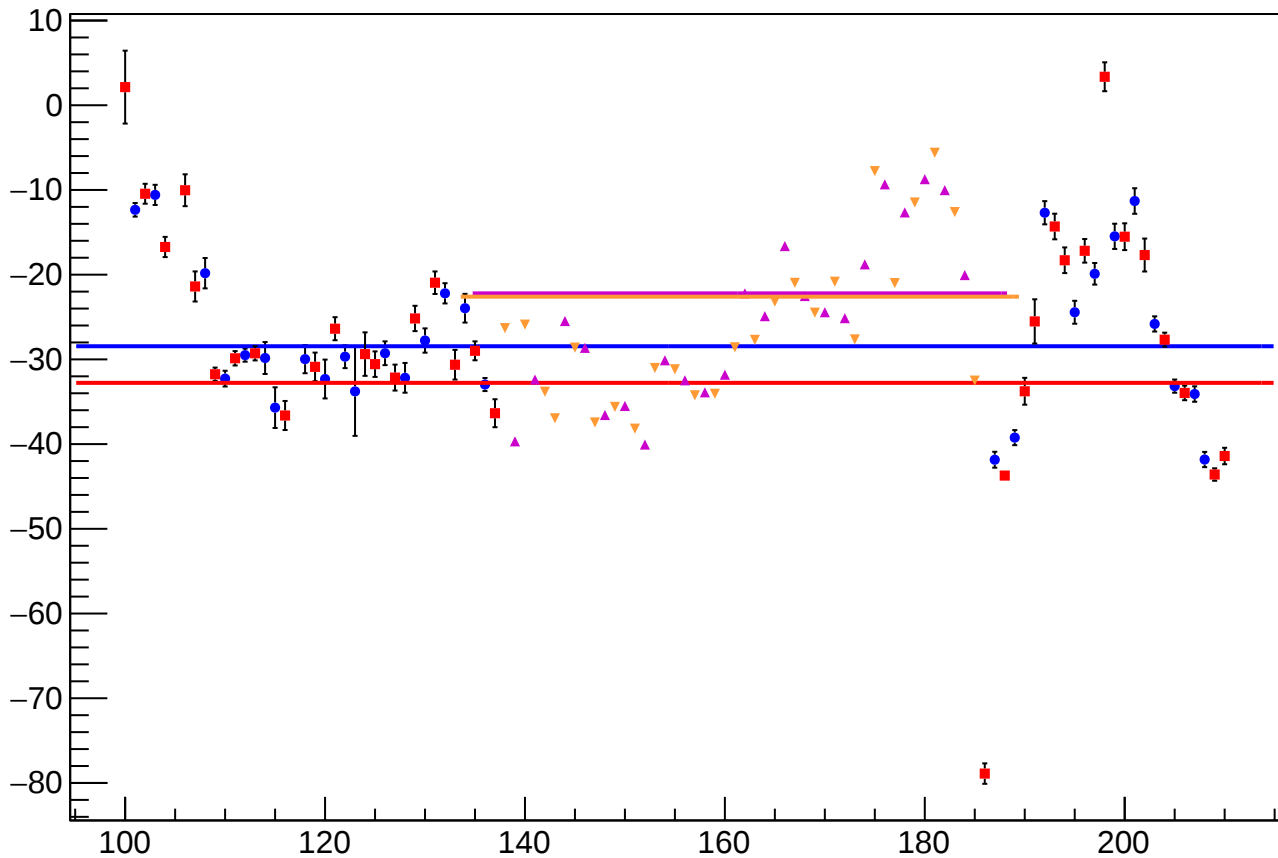
Right: 2.033 ± 0.113 $\chi^2/\text{NDF}: 2643.9/60$

In: 3.588 ± 0.053 $\chi^2/\text{NDF}: 6924.3/50$

Out: 3.550 ± 0.052 $\chi^2/\text{NDF}: 9006.2/57$

All: 3.568 ± 0.037 $\chi^2/\text{NDF}: 15930.7/108$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

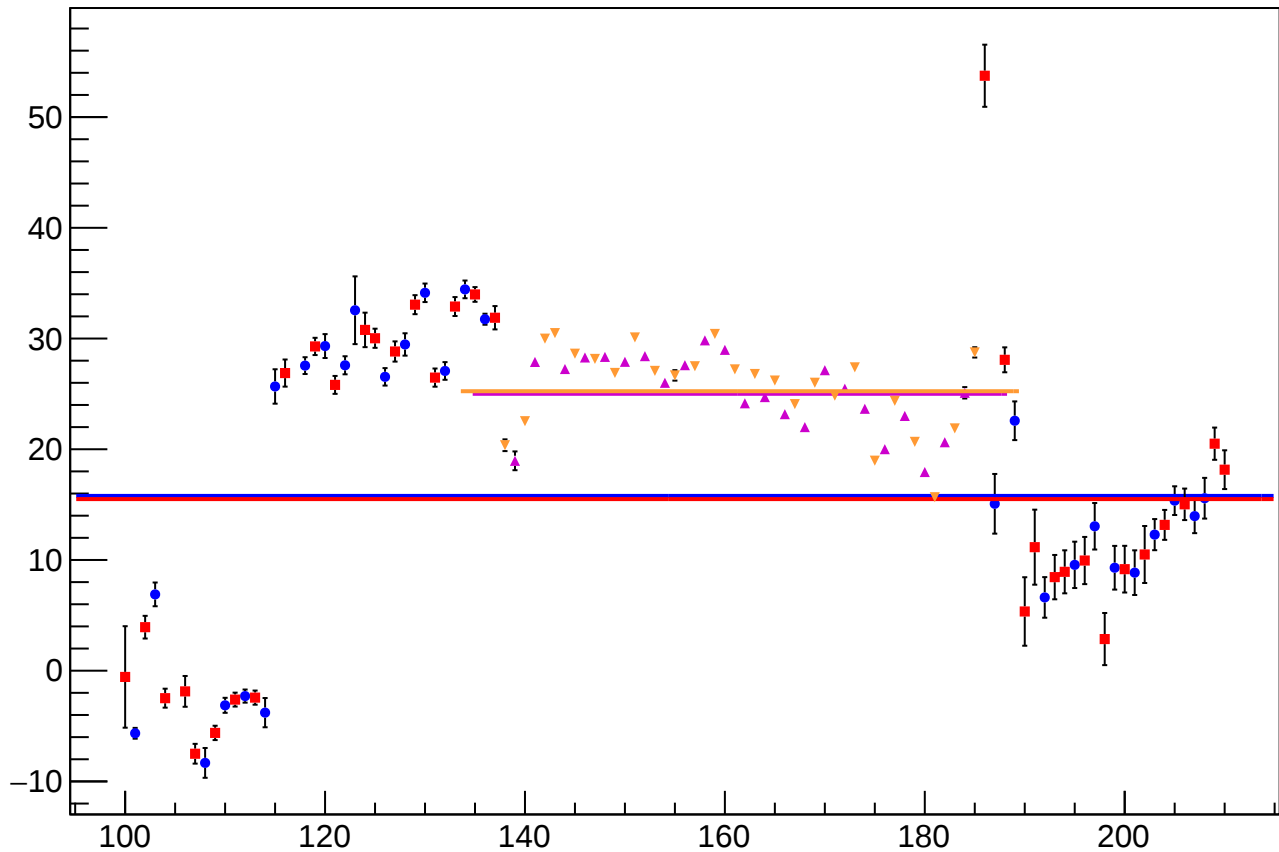
Right: -30.818 ± 0.145 $\chi^2/\text{NDF}: 6443.4/60$

In: -22.825 ± 0.068 $\chi^2/\text{NDF}: 20181.6/50$

Out: -23.765 ± 0.067 $\chi^2/\text{NDF}: 26728.3/57$

All: -23.305 ± 0.048 $\chi^2/\text{NDF}: 47007.7/108$

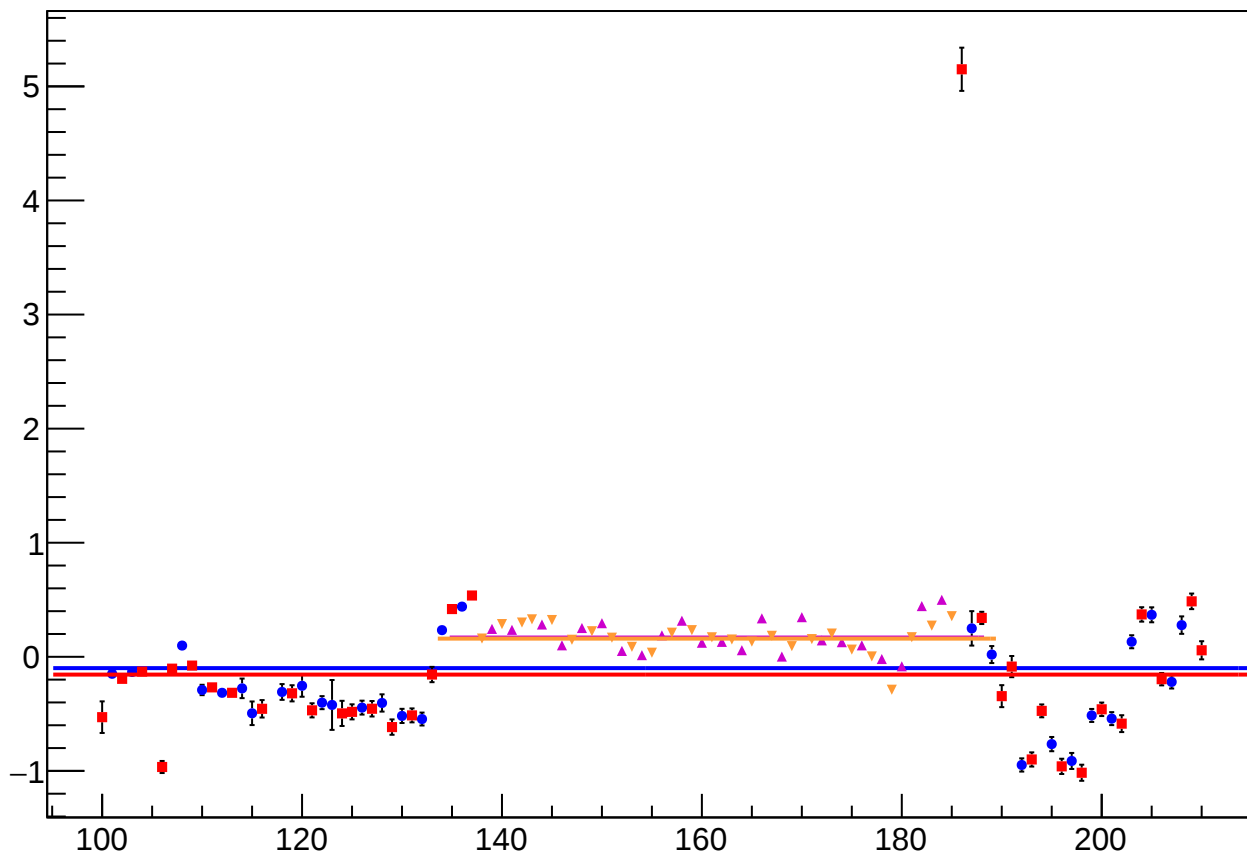
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.786 ± 0.181 $\chi^2/\text{NDF}: 7626.1/27$
 Left Out: 25.242 ± 0.063 $\chi^2/\text{NDF}: 3786.5/24$
 Right Out: 15.498 ± 0.183 $\chi^2/\text{NDF}: 7675.3/32$
 Left In: 25.009 ± 0.064 $\chi^2/\text{NDF}: 2722.0/22$

Left: 25.128 ± 0.045 $\chi^2/\text{NDF}: 6515.2/47$
 Right: 15.644 ± 0.129 $\chi^2/\text{NDF}: 15302.6/60$
 In: 23.988 ± 0.060 $\chi^2/\text{NDF}: 12658.9/50$
 Out: 24.219 ± 0.059 $\chi^2/\text{NDF}: 14003.6/57$
 All: 24.105 ± 0.042 $\chi^2/\text{NDF}: 26670.0/108$

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.099 ± 0.009 $\chi^2/\text{NDF}: 1729.9/27$

Left Out: 0.159 ± 0.003 $\chi^2/\text{NDF}: 1864.2/24$

Right Out: -0.156 ± 0.009 $\chi^2/\text{NDF}: 2734.7/32$

Left In: 0.169 ± 0.003 $\chi^2/\text{NDF}: 2418.8/22$

Left: 0.164 ± 0.002 $\chi^2/\text{NDF}: 4288.4/47$

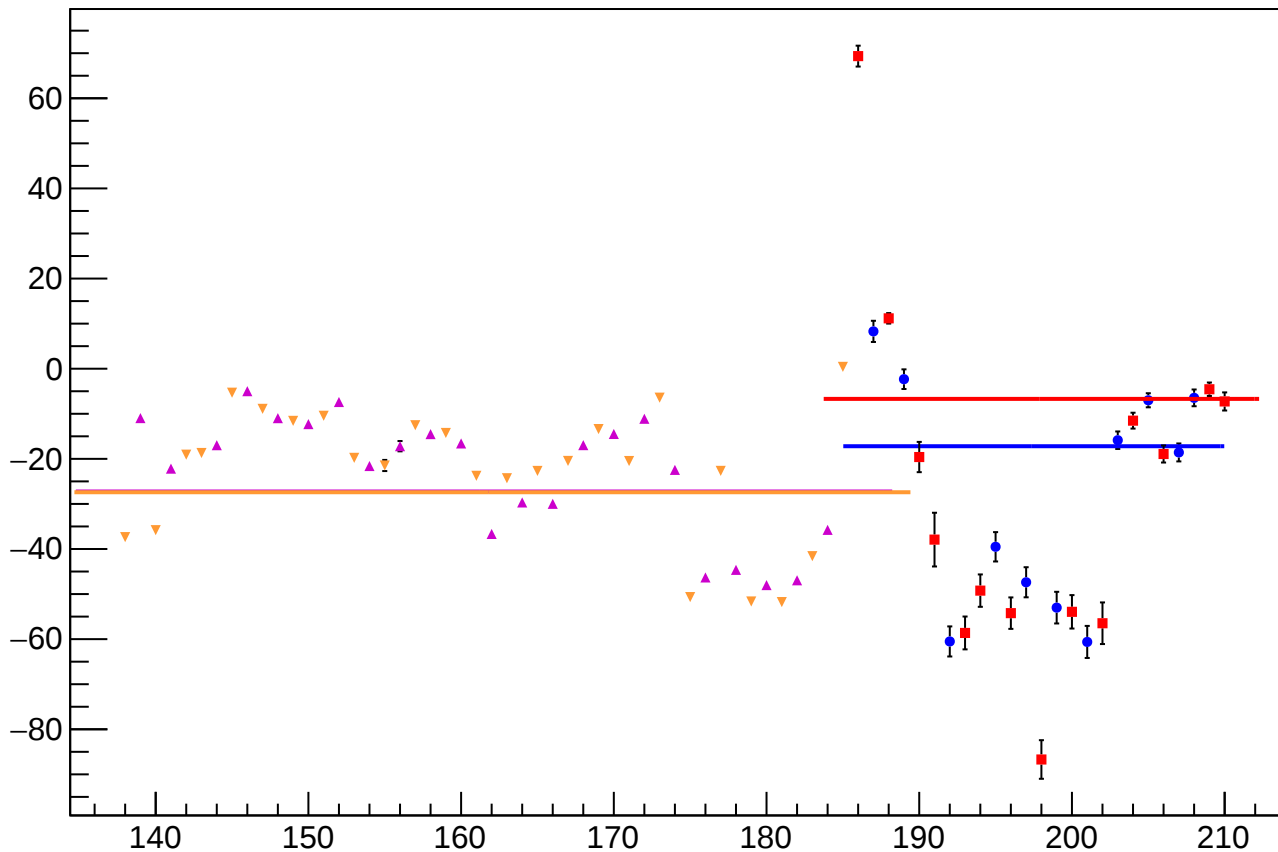
Right: -0.128 ± 0.006 $\chi^2/\text{NDF}: 4484.1/60$

In: 0.144 ± 0.003 $\chi^2/\text{NDF}: 4928.9/50$

Out: 0.130 ± 0.003 $\chi^2/\text{NDF}: 5709.4/57$

All: 0.137 ± 0.002 $\chi^2/\text{NDF}: 10650.8/108$

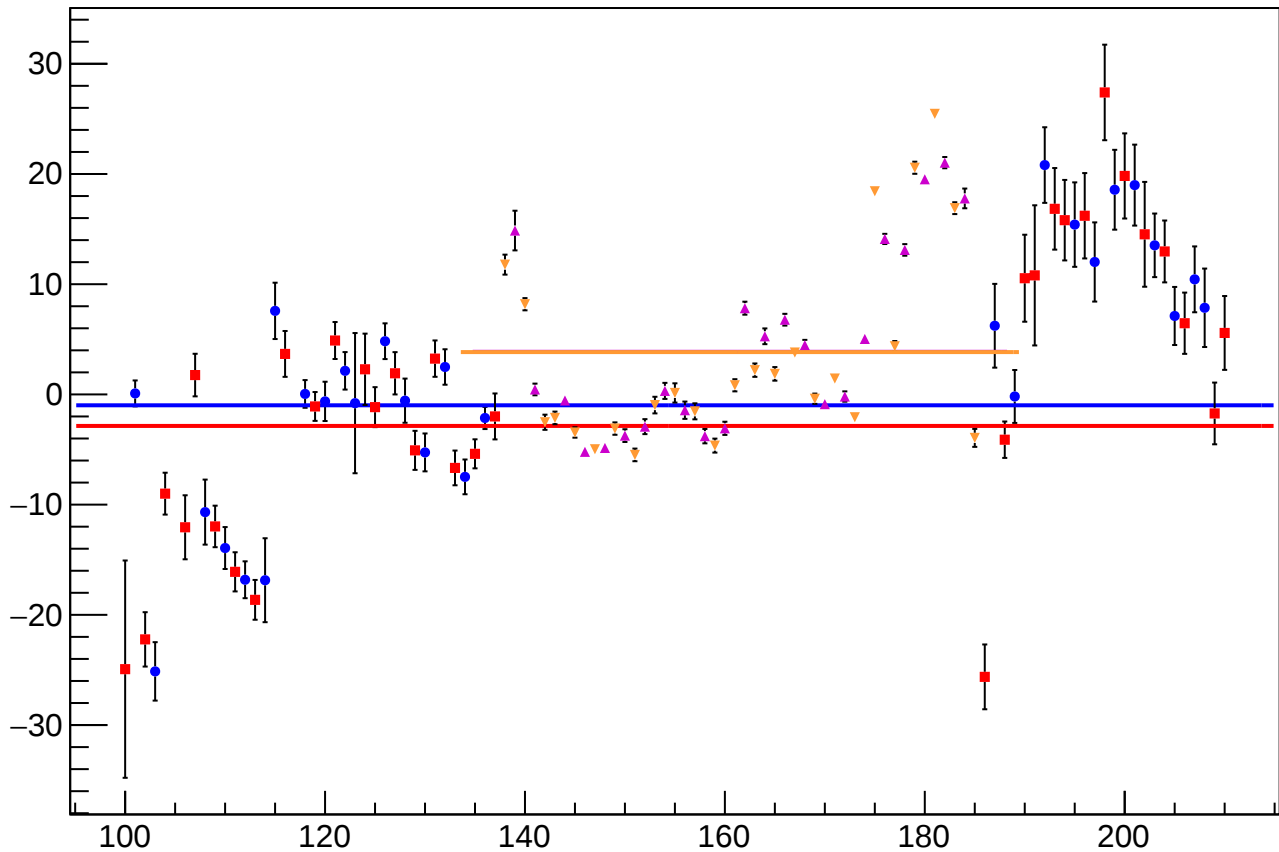
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.199 ± 0.700 $\chi^2/\text{NDF}: 791.3/10$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.696 ± 0.603 $\chi^2/\text{NDF}: 2563.7/13$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -11.171 ± 0.457 $\chi^2/\text{NDF}: 3484.3/24$
 In: -26.860 ± 0.137 $\chi^2/\text{NDF}: 12294.7/33$
 Out: -26.393 ± 0.133 $\chi^2/\text{NDF}: 18536.8/38$
 All: -26.621 ± 0.095 $\chi^2/\text{NDF}: 30837.4/72$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.987 ± 0.378 χ^2/NDF : 495.1/27

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.859 ± 0.381 χ^2/NDF : 617.4/32

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

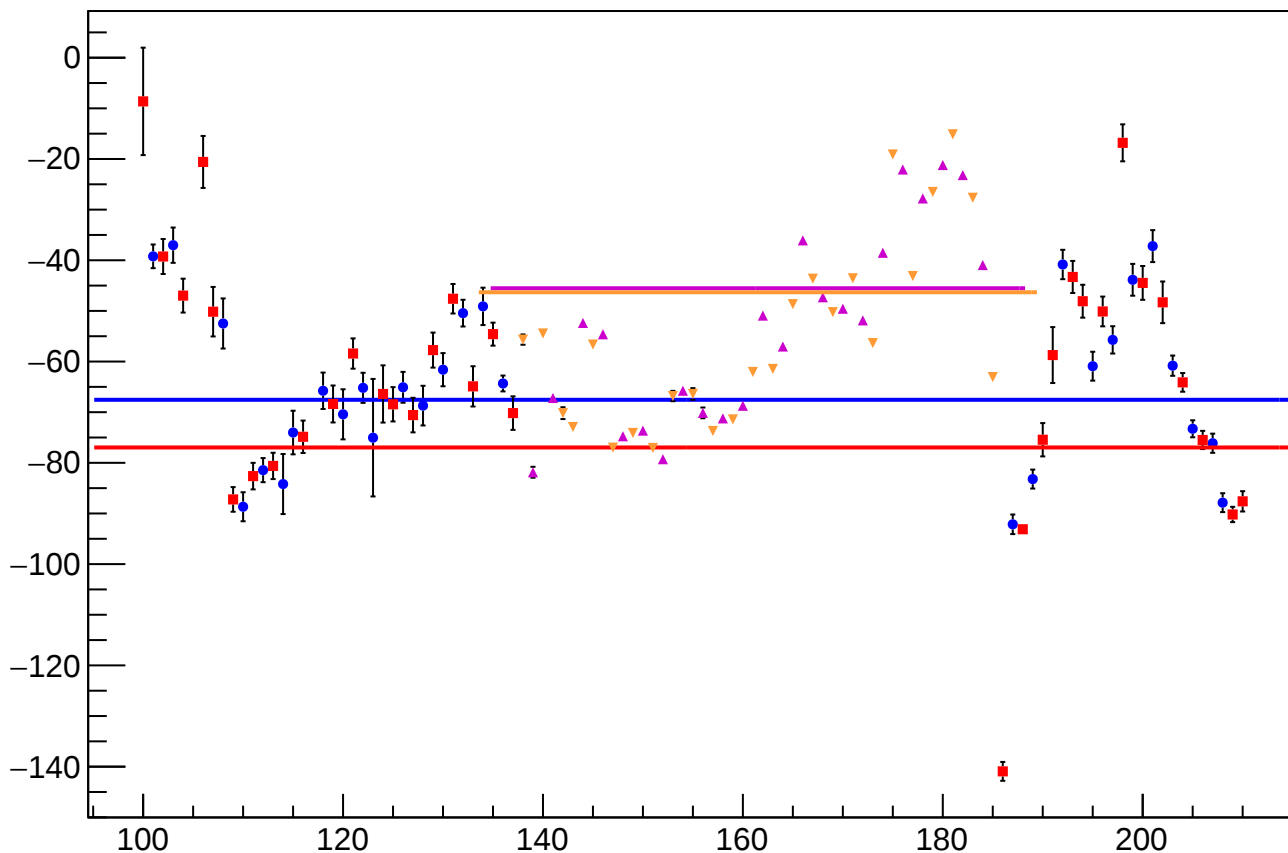
Right: -1.918 ± 0.268 χ^2/NDF : 1124.6/60

In: 3.480 ± 0.107 χ^2/NDF : 6070.4/50

Out: 3.331 ± 0.105 χ^2/NDF : 7843.0/57

All: 3.405 ± 0.075 χ^2/NDF : 13914.4/108

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.552 ± 0.492 χ^2/NDF : 1061.4/27

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -76.966 ± 0.441 χ^2/NDF : 3049.1/32

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

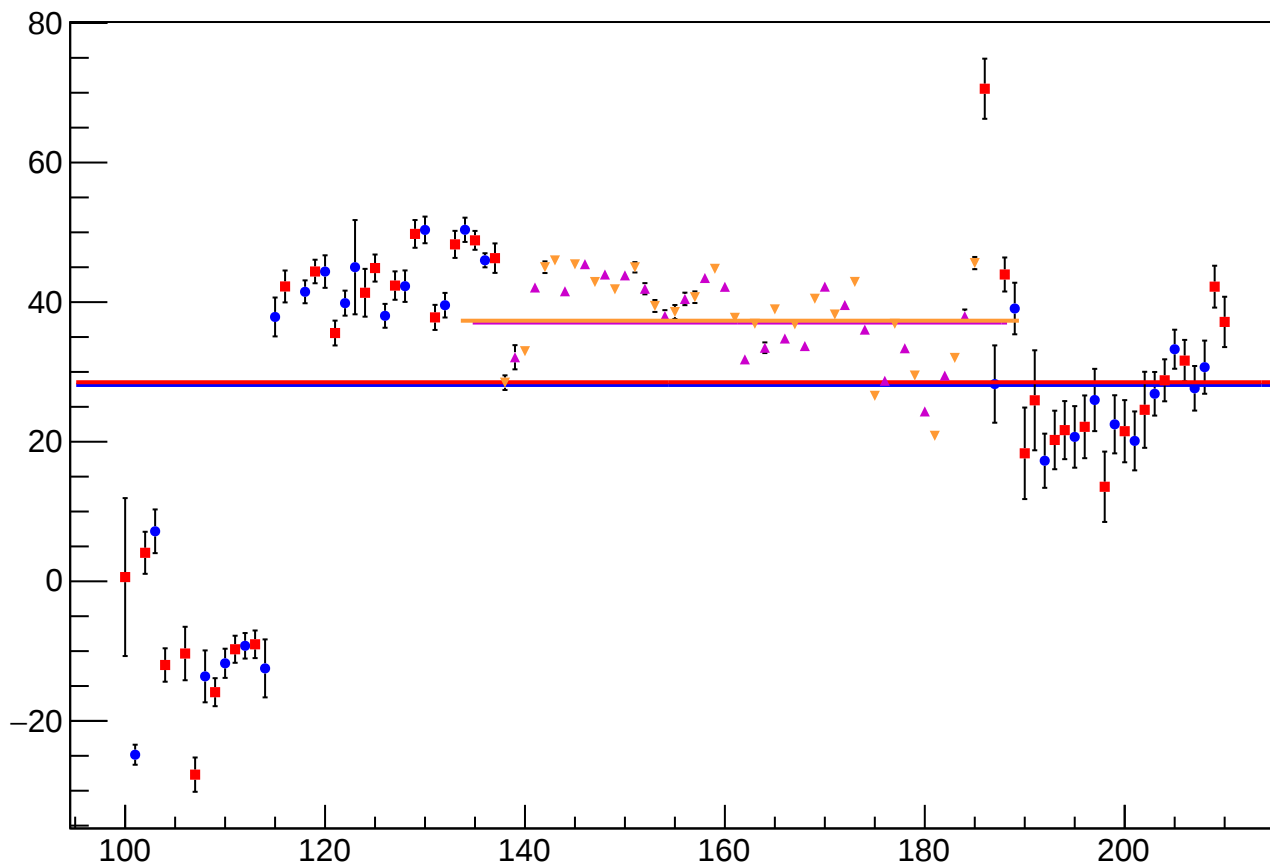
Right: -72.775 ± 0.329 χ^2/NDF : 4313.3/60

In: -47.164 ± 0.134 χ^2/NDF : 20439.3/50

Out: -49.048 ± 0.132 χ^2/NDF : 27581.8/57

All: -48.126 ± 0.094 χ^2/NDF : 48121.4/108

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.135 $\pm$ 0.427 χ^2 /NDF: 3340.0/27

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.523 $\pm$ 0.434 χ^2 /NDF: 3223.0/32

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

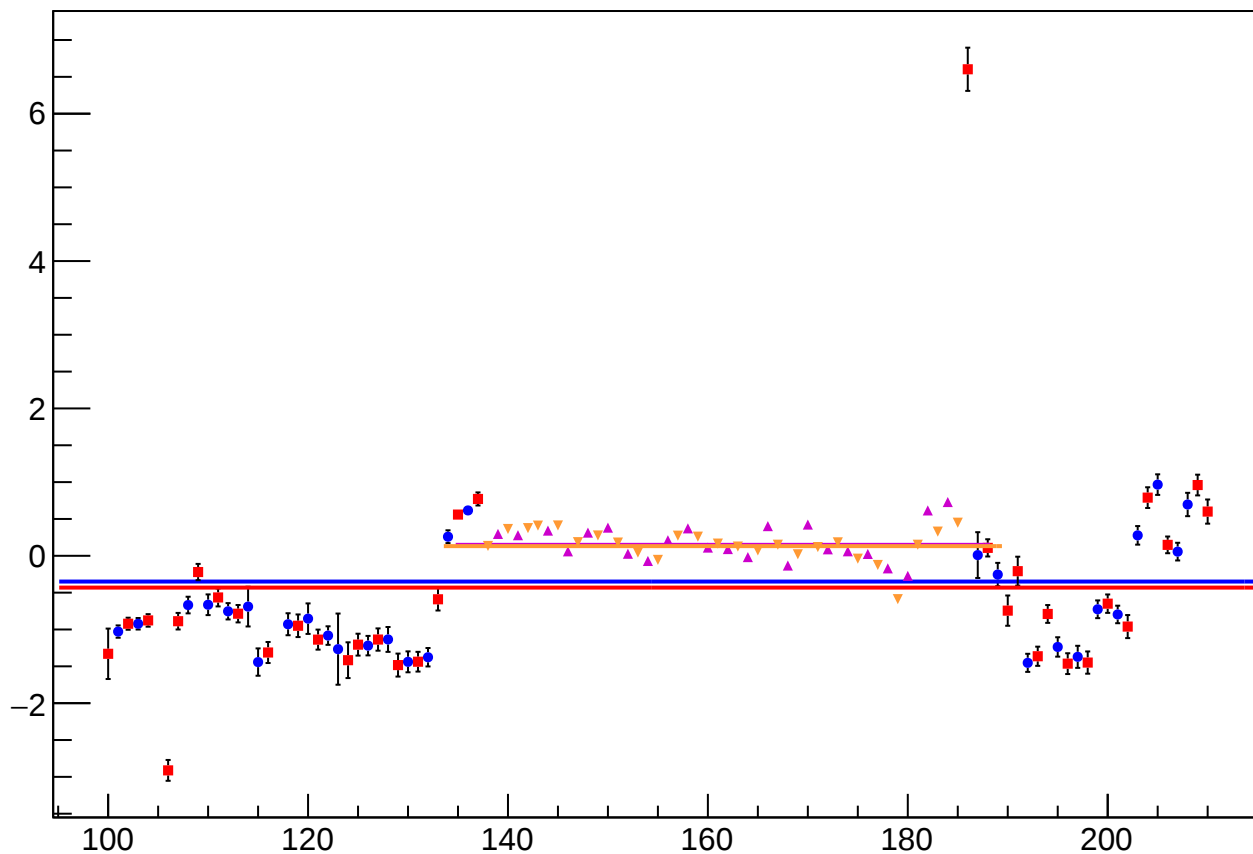
Right: 28.326 $\pm$ 0.304 χ^2 /NDF: 6563.5/60

In: 36.365 $\pm$ 0.120 χ^2 /NDF:6141.5/50

Out: 36.685 $\pm$ 0.118 χ^2 /NDF:6754.4/57

All: 36.528 $\pm$ 0.084 χ^2 /NDF: 12899.5/108

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.349 ± 0.021 χ^2/NDF : 1378.0/27

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.431 ± 0.021 χ^2/NDF : 2182.1/32

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

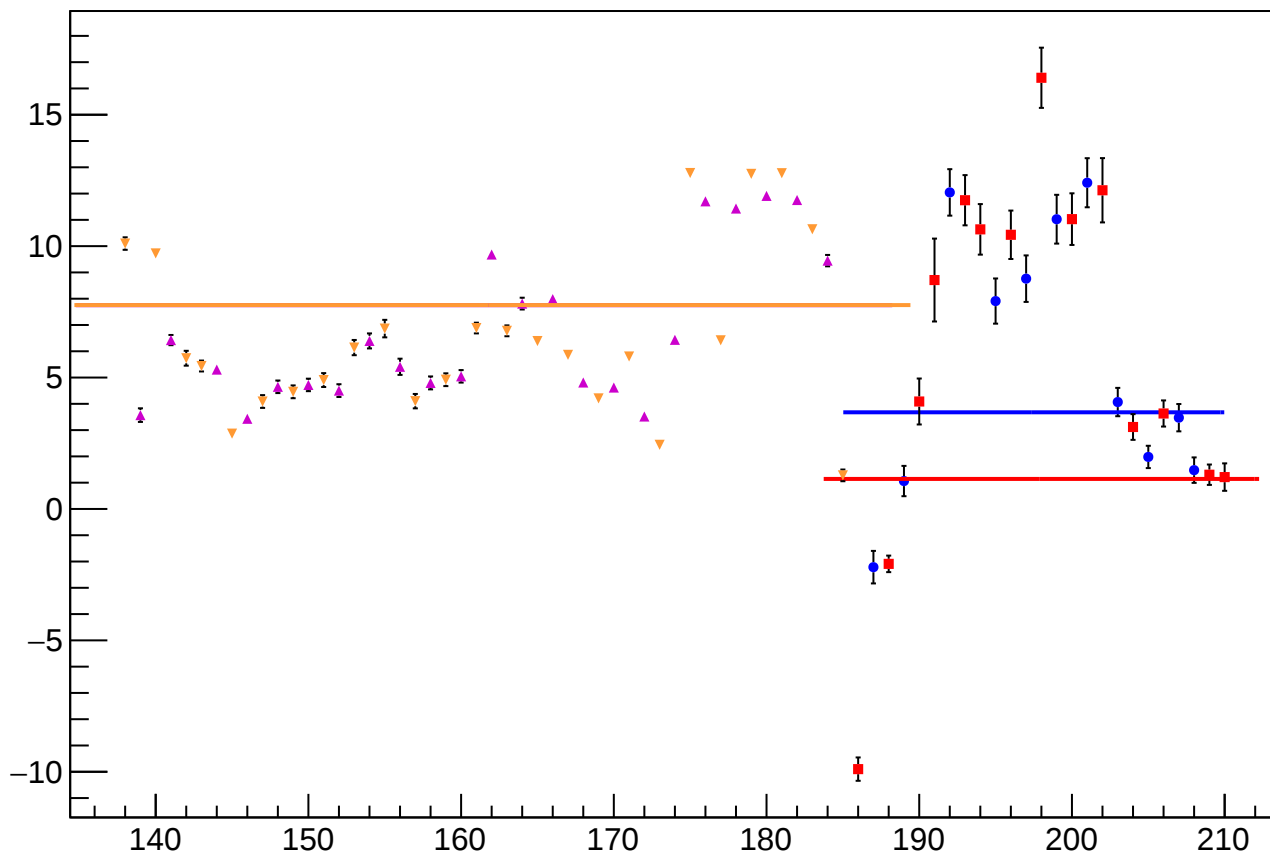
Right: -0.390 ± 0.015 χ^2/NDF : 3567.4/60

In: 0.115 ± 0.006 χ^2/NDF : 3687.3/50

Out: 0.095 ± 0.005 χ^2/NDF : 4254.4/57

All: 0.105 ± 0.004 χ^2/NDF : 7948.6/108

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.678 ± 0.186 $\chi^2/\text{NDF}: 445.5/10$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.143 ± 0.156 $\chi^2/\text{NDF}: 1481.2/13$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

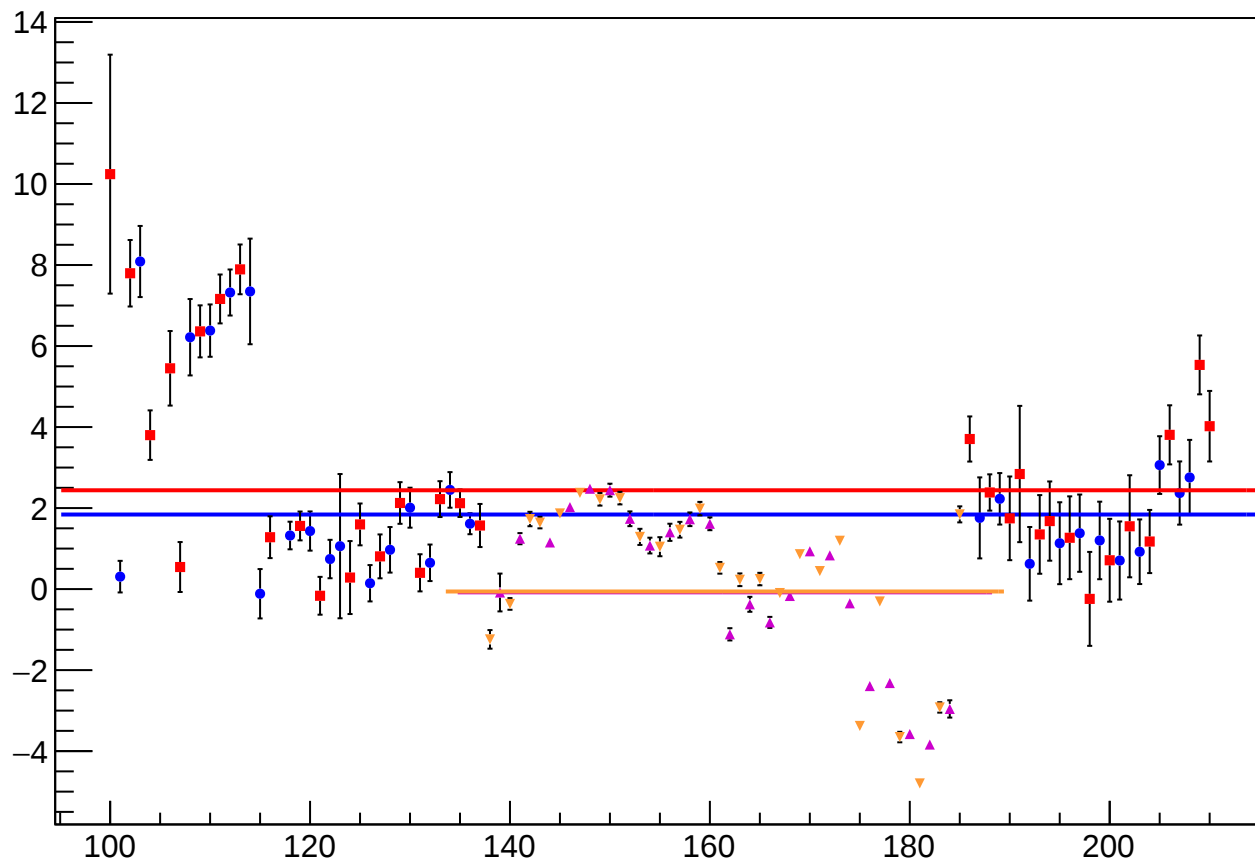
Right: 2.185 ± 0.119 $\chi^2/\text{NDF}: 2035.6/24$

In: 7.613 ± 0.034 $\chi^2/\text{NDF}: 9252.4/33$

Out: 7.450 ± 0.034 $\chi^2/\text{NDF}: 14931.0/38$

All: 7.530 ± 0.024 $\chi^2/\text{NDF}: 24194.9/72$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.841 ± 0.107 $\chi^2/\text{NDF}: 303.7/27$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.439 ± 0.107 $\chi^2/\text{NDF}: 381.0/32$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

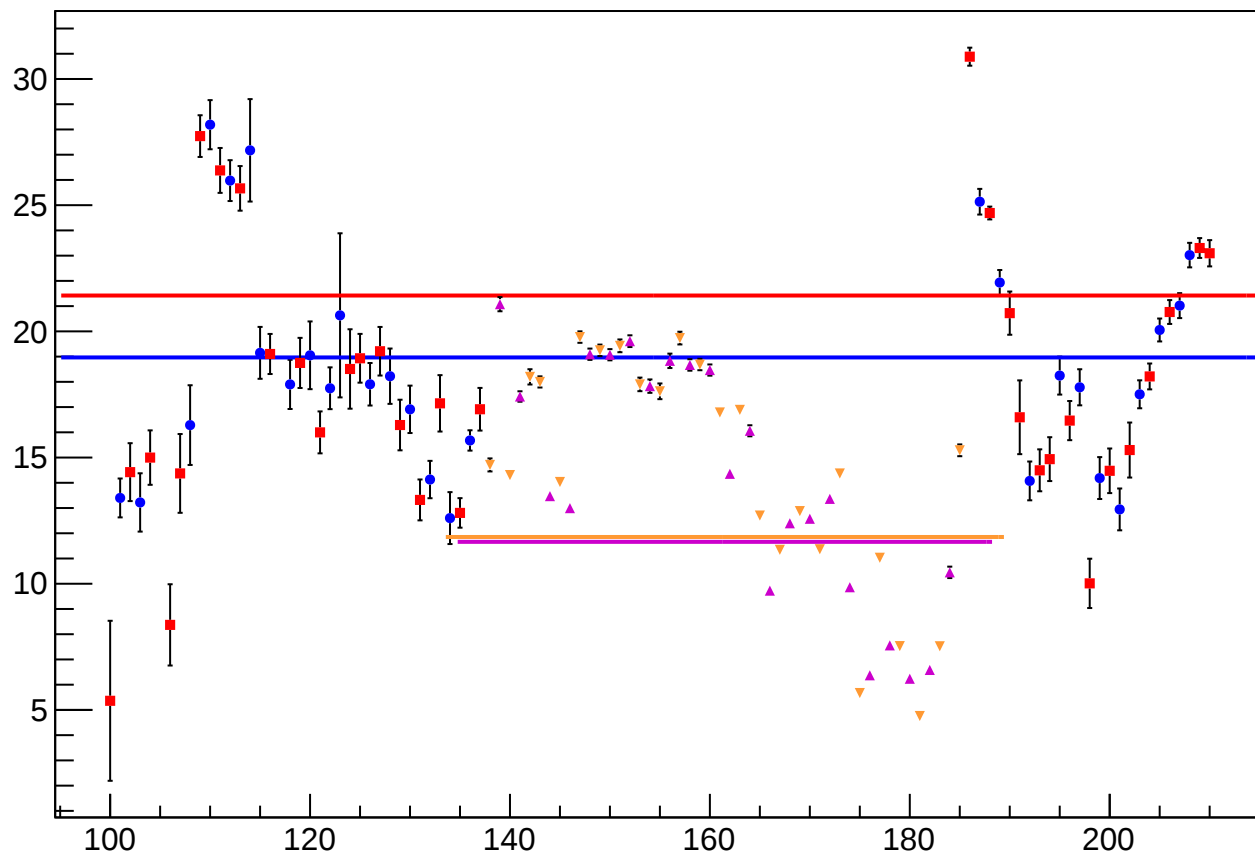
Right: 2.140 ± 0.075 $\chi^2/\text{NDF}: 700.4/60$

In: 0.046 ± 0.027 $\chi^2/\text{NDF}: 5586.5/50$

Out: 0.099 ± 0.027 $\chi^2/\text{NDF}: 6964.4/57$

All: 0.073 ± 0.019 $\chi^2/\text{NDF}: 12552.8/108$

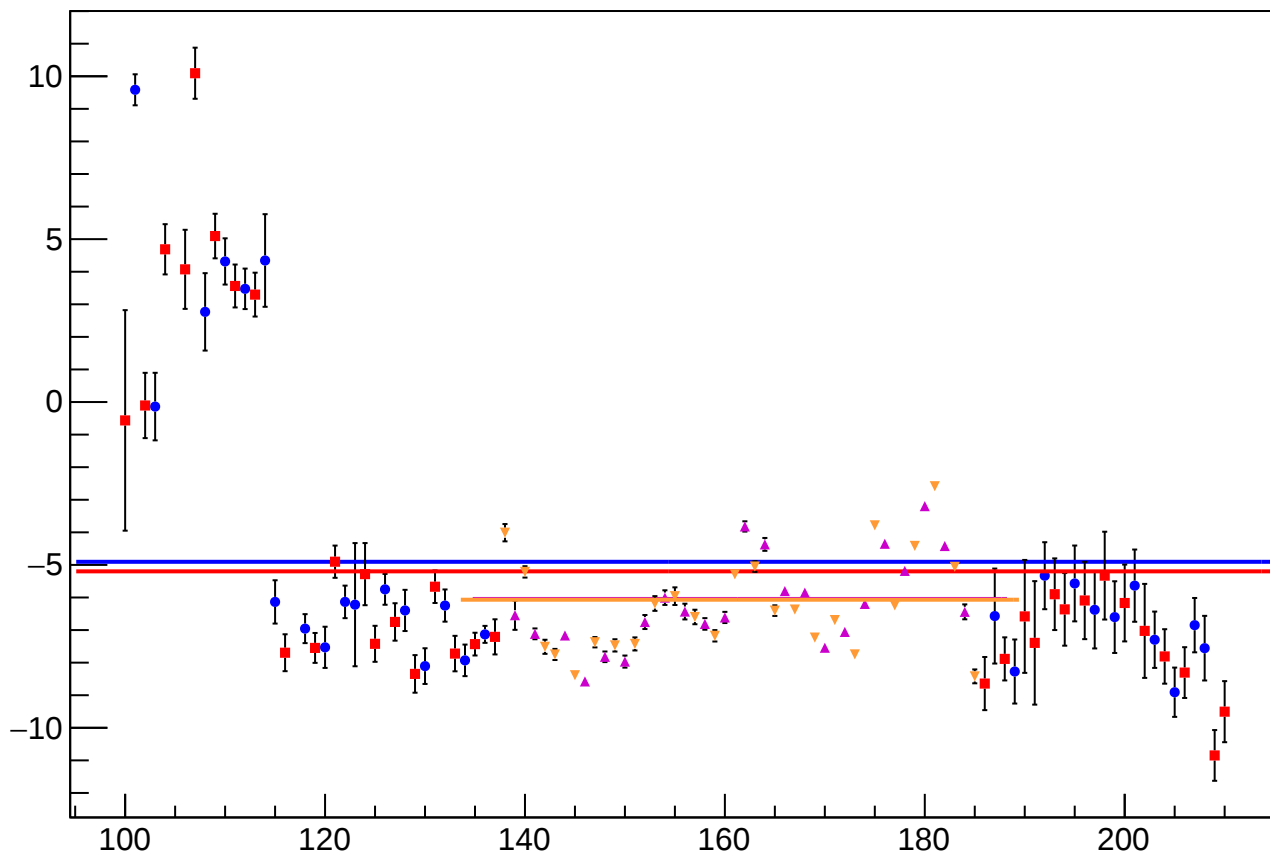
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.967 ± 0.135 $\chi^2/\text{NDF}: 831.6/27$
 Left Out: 11.853 ± 0.035 $\chi^2/\text{NDF}: 19149.4/24$
 Right Out: 21.420 ± 0.118 $\chi^2/\text{NDF}: 2106.7/32$
 Left In: 11.660 ± 0.035 $\chi^2/\text{NDF}: 16710.2/22$

Left: 11.758 ± 0.025 $\chi^2/\text{NDF}: 35874.9/47$
 Right: 20.361 ± 0.089 $\chi^2/\text{NDF}: 3125.5/60$
 In: 12.124 ± 0.034 $\chi^2/\text{NDF}: 20279.7/50$
 Out: 12.616 ± 0.033 $\chi^2/\text{NDF}: 27324.3/57$
 All: 12.376 ± 0.024 $\chi^2/\text{NDF}: 47710.6/108$

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.904 ± 0.120 χ^2/NDF : 1658.7/27

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -5.198 ± 0.122 χ^2/NDF : 1509.6/32

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

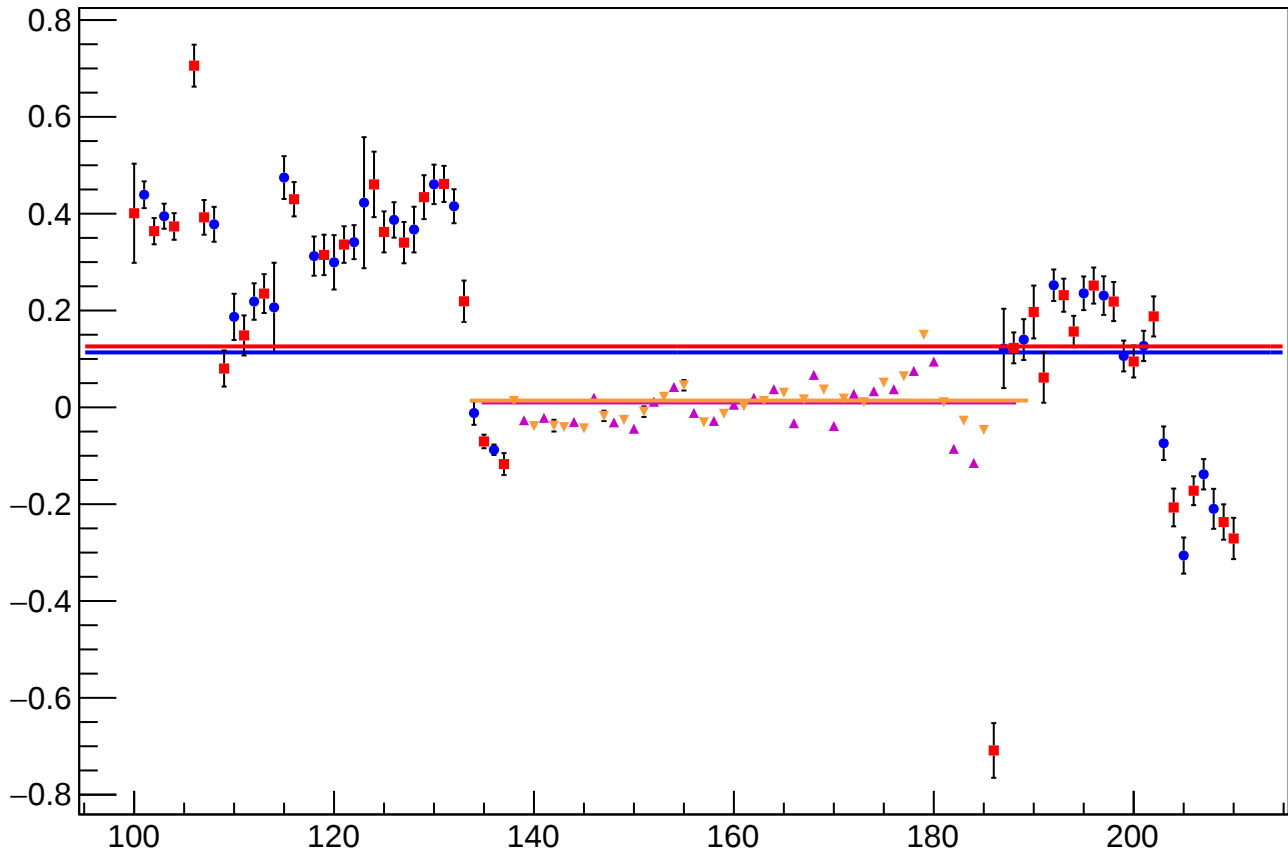
Right: -5.049 ± 0.085 χ^2/NDF : 3171.3/60

In: -5.970 ± 0.031 χ^2/NDF : 4037.2/50

Out: -6.015 ± 0.030 χ^2/NDF : 4229.4/57

All: -5.993 ± 0.021 χ^2/NDF : 8267.7/108

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 $\pm$ 0.006 χ^2 /NDF: 1395.6/27

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF:956.2/24

Right Out: 0.126 $\pm$ 0.006 χ^2 /NDF: 1668.1/32

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

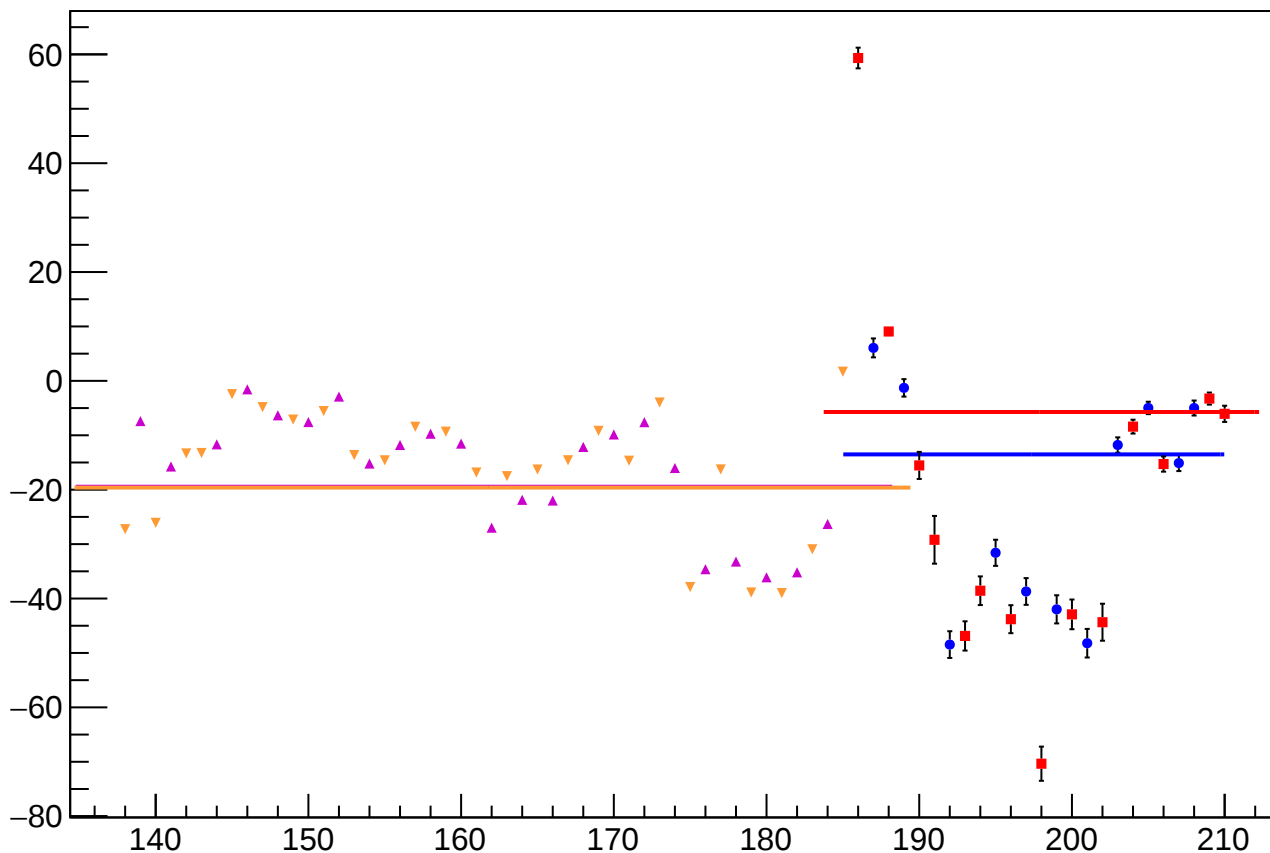
Right: 0.120 $\pm$ 0.004 χ^2 /NDF: 3065.9/60

In: 0.016 $\pm$ 0.001 χ^2 /NDF:2896.7/50

Out: 0.020 $\pm$ 0.001 χ^2 /NDF:2954.5/57

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5855.6/108

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.512 ± 0.514 $\chi^2/\text{NDF}: 941.9/10$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.719 ± 0.446 $\chi^2/\text{NDF}: 2923.5/13$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

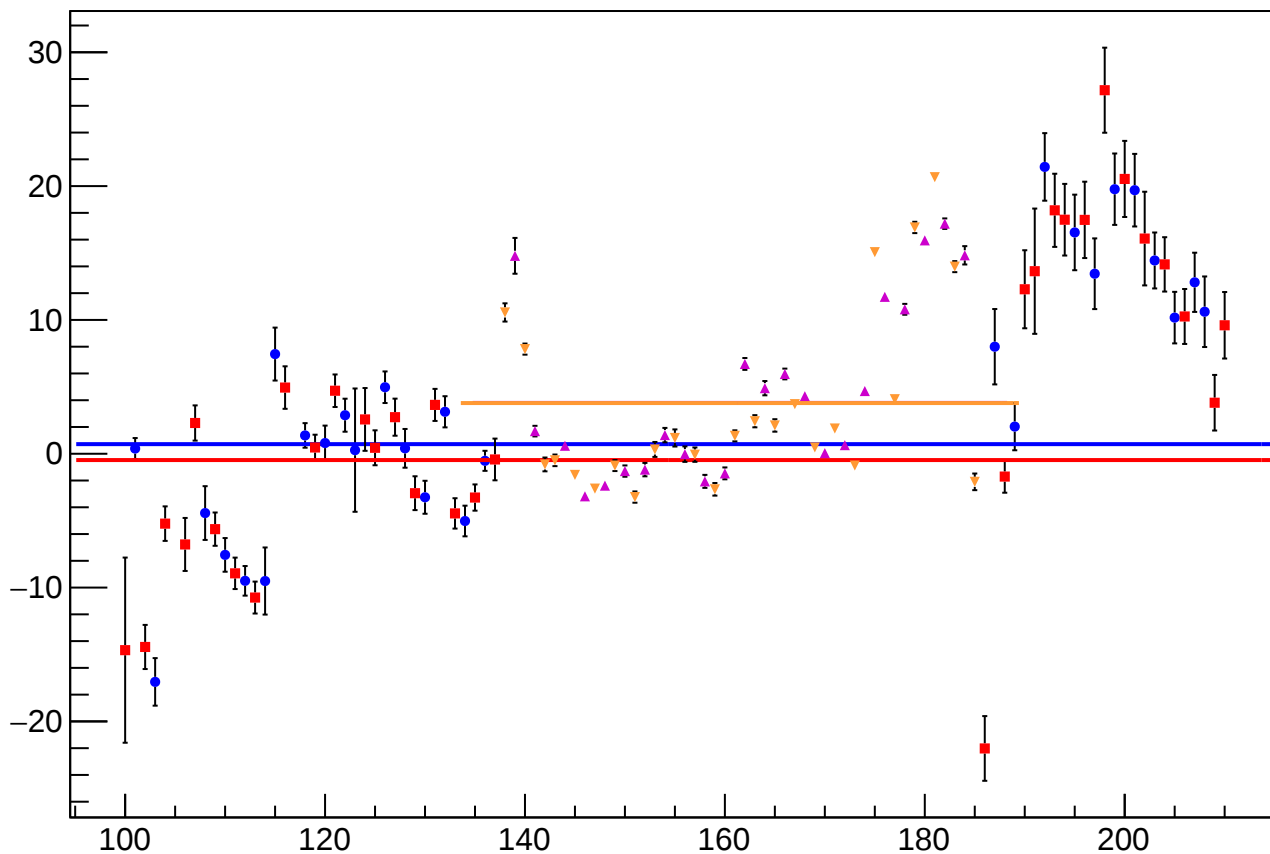
Right: -9.063 ± 0.337 $\chi^2/\text{NDF}: 3996.5/24$

In: -19.212 ± 0.103 $\chi^2/\text{NDF}: 13353.1/33$

Out: -18.906 ± 0.101 $\chi^2/\text{NDF}: 19606.2/38$

All: -19.055 ± 0.072 $\chi^2/\text{NDF}: 32963.8/72$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.718 $\pm$ 0.271 χ^2 /NDF: 663.2/27

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF: 7150.5/24

Right Out: -0.471 $\pm$ 0.272 χ^2 /NDF: 814.3/32

Left In: 3.799 $\pm$ 0.084 χ^2 /NDF: 5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2 /NDF: 12667.5/47

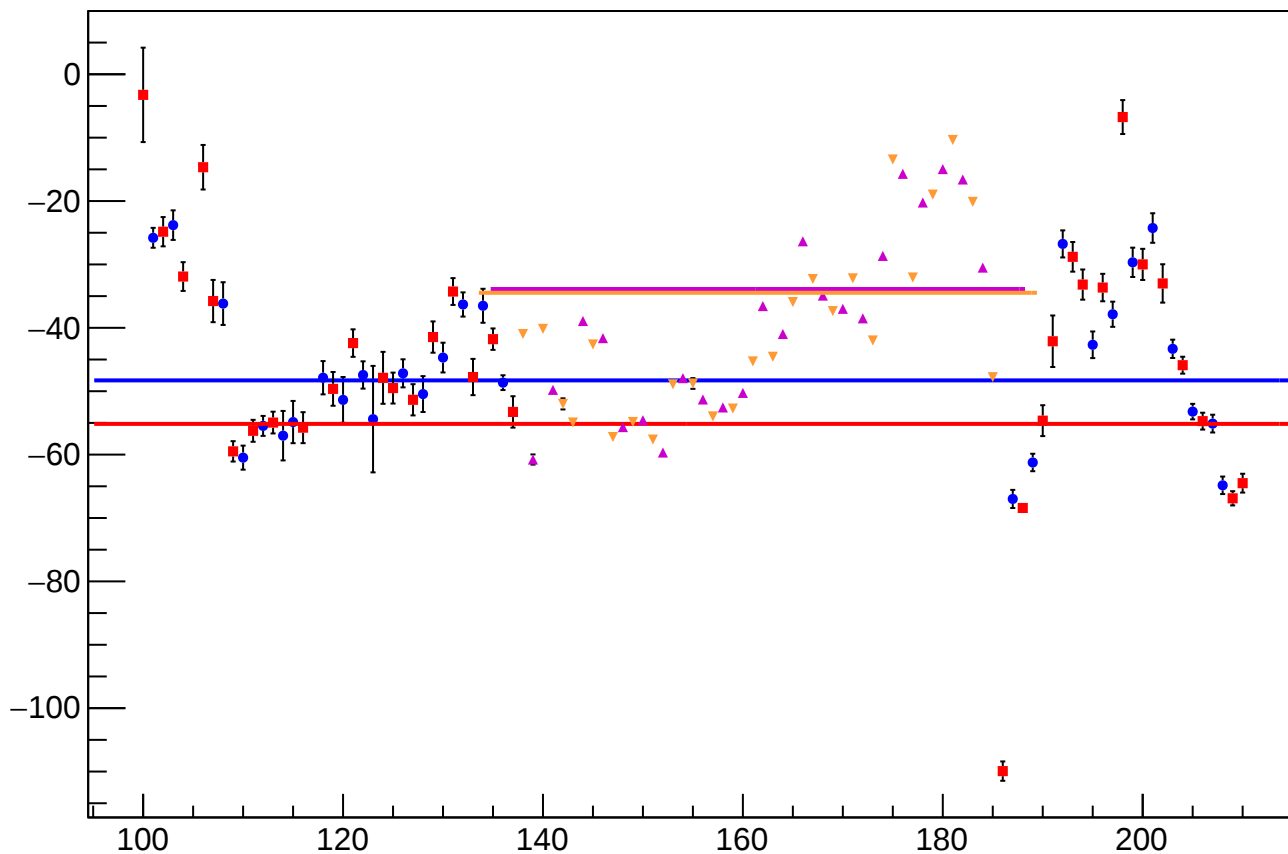
Right: 0.127 $\pm$ 0.192 χ^2 /NDF: 1487.1/60

In: 3.530 $\pm$ 0.080 χ^2 /NDF: 6298.5/50

Out: 3.433 $\pm$ 0.079 χ^2 /NDF: 8189.4/57

All: 3.481 $\pm$ 0.056 χ^2 /NDF: 14488.6/108

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.292 ± 0.356 $\chi^2/\text{NDF}: 1225.2/27$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -55.154 ± 0.321 $\chi^2/\text{NDF}: 3413.6/32$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

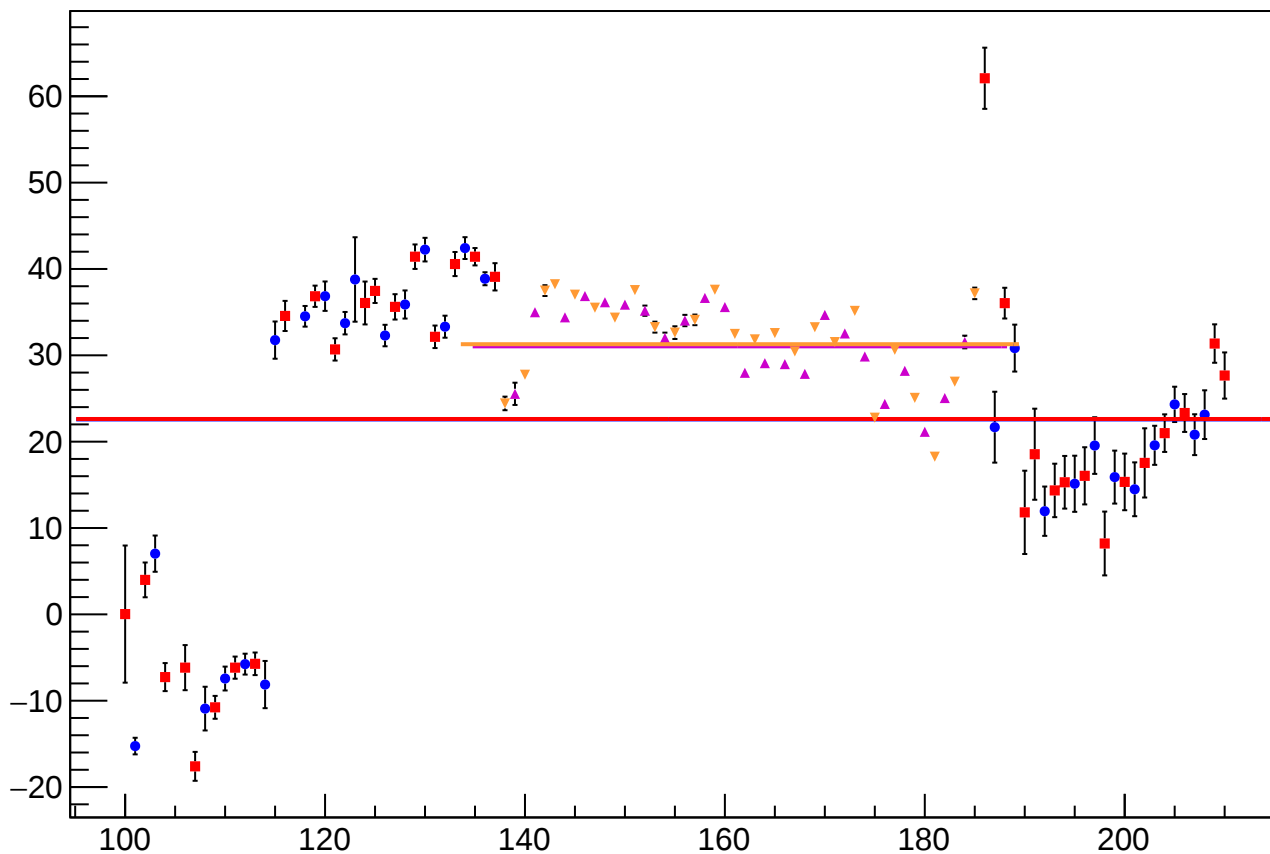
Right: -52.080 ± 0.238 $\chi^2/\text{NDF}: 4843.8/60$

In: -35.034 ± 0.101 $\chi^2/\text{NDF}: 20371.6/50$

Out: -36.437 ± 0.099 $\chi^2/\text{NDF}: 27373.6/57$

All: -35.750 ± 0.071 $\chi^2/\text{NDF}: 47843.7/108$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.574 $\pm$ 0.306 χ^2 /NDF: 4362.1/27

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.627 $\pm$ 0.310 χ^2 /NDF: 4277.3/32

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

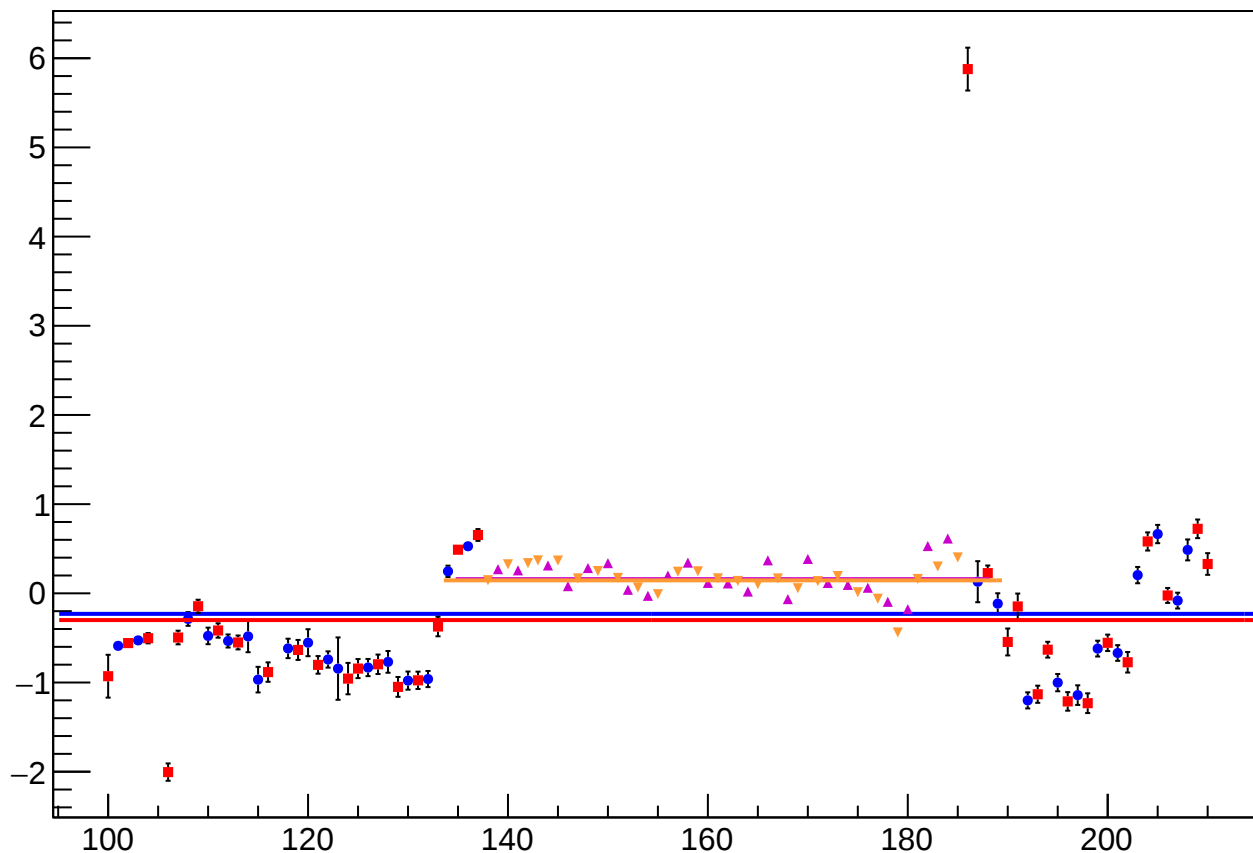
Right: 22.600 $\pm$ 0.218 χ^2 /NDF: 8639.4/60

In: 30.304 $\pm$ 0.090 χ^2 /NDF:7543.1/50

Out: 30.581 $\pm$ 0.089 χ^2 /NDF:8338.6/57

All: 30.445 $\pm$ 0.063 χ^2 /NDF: 15886.5/108

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.015 χ^2/NDF : 1436.9/27

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.300 ± 0.015 χ^2/NDF : 2349.1/32

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

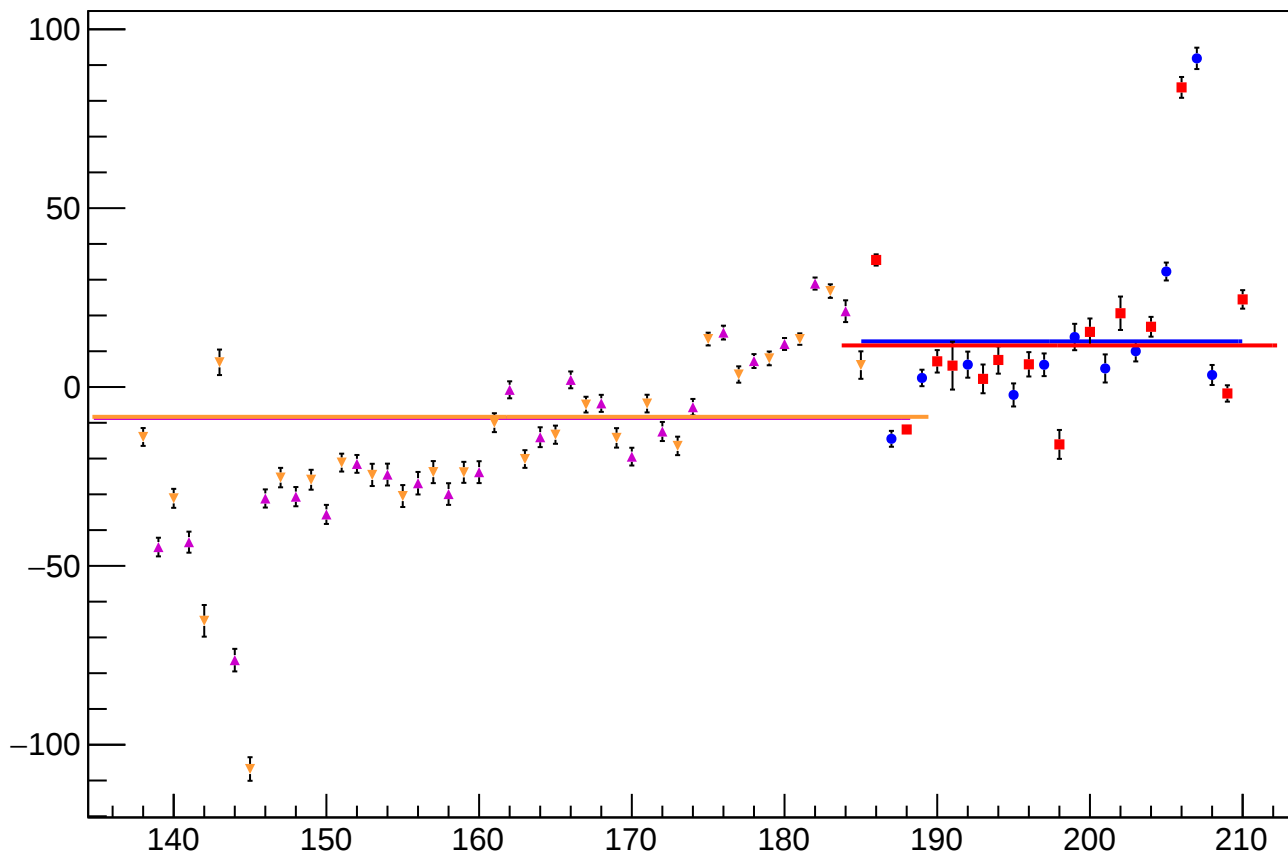
Right: -0.265 ± 0.011 χ^2/NDF : 3796.3/60

In: 0.130 ± 0.004 χ^2/NDF : 4041.3/50

Out: 0.114 ± 0.004 χ^2/NDF : 4713.5/57

All: 0.122 ± 0.003 χ^2/NDF : 8763.0/108

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.758 $\pm$ 0.869 χ^2 /NDF: 977.0/10

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 11.626 $\pm$ 0.680 χ^2 /NDF: 1330.5/13

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

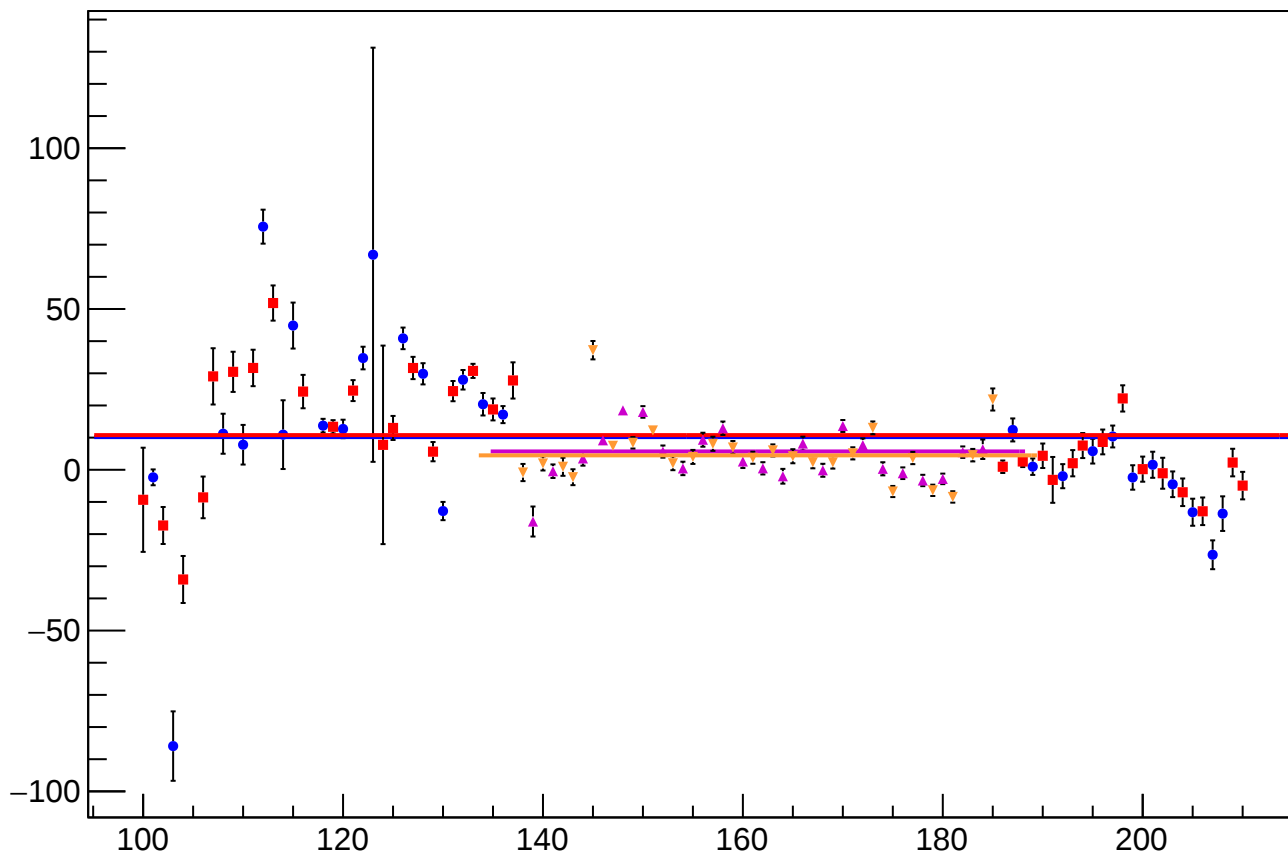
Right: 12.055 $\pm$ 0.535 χ^2 /NDF: 2308.5/24

In: -3.216 $\pm$ 0.438 χ^2 /NDF: 3653.2/33

Out: -1.331 $\pm$ 0.403 χ^2 /NDF: 4116.6/38

All: -2.194 $\pm$ 0.296 χ^2 /NDF: 7779.8/72

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.165 $\pm$ 0.683 χ^2 /NDF: 741.3/27

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 10.780 $\pm$ 0.631 χ^2 /NDF: 485.5/32

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF:324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

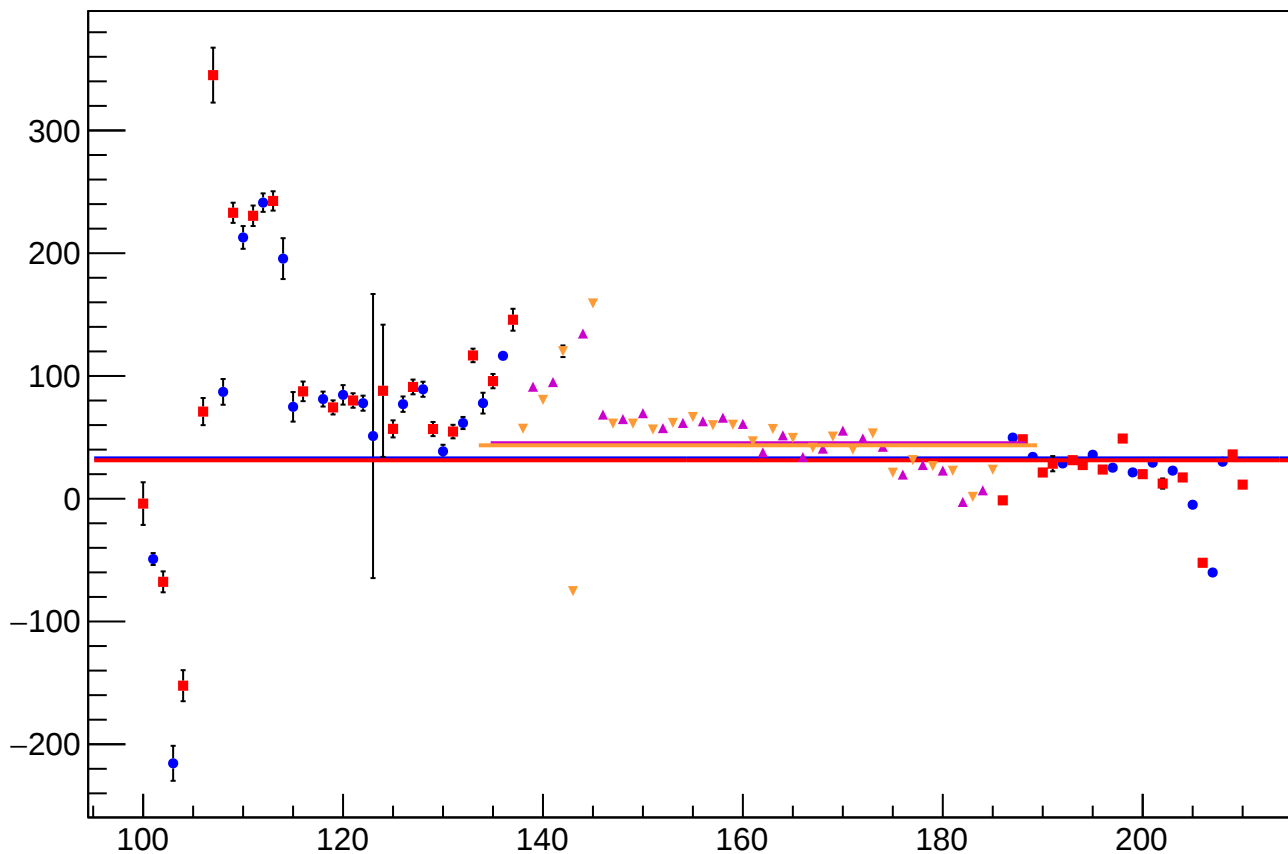
Right: 10.497 $\pm$ 0.464 χ^2 /NDF: 1227.2/60

In: 6.861 $\pm$ 0.348 χ^2 /NDF:1096.9/50

Out: 6.236 $\pm$ 0.333 χ^2 /NDF:929.1/57

All: 6.535 $\pm$ 0.241 χ^2 /NDF: 2027.7/108

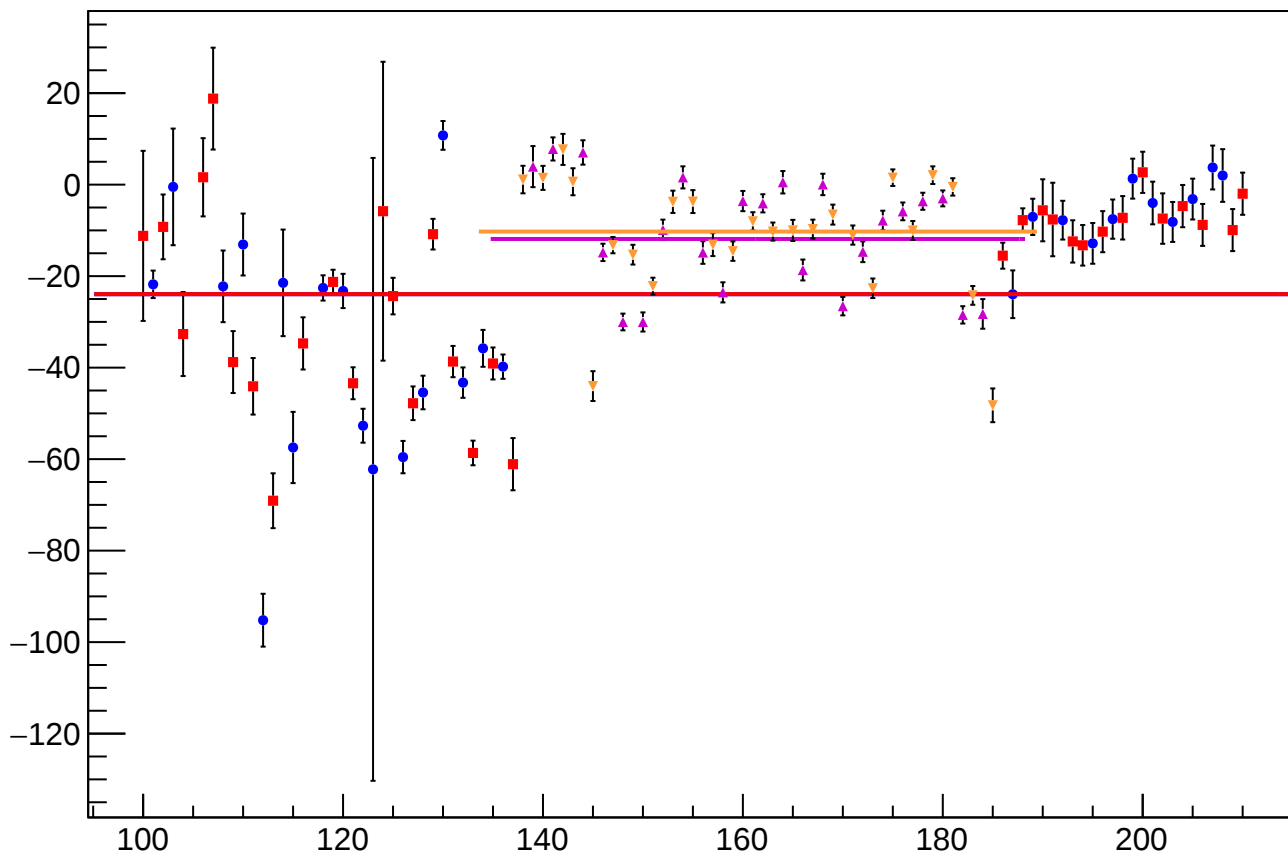
reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.863+/-0.707 χ^2/NDF : 4033.6/27
 Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24
 Right Out: 31.315+/-0.557 χ^2/NDF : 5345.5/32
 Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47
 Right: 31.908+/-0.438 χ^2/NDF : 9382.0/60
 In: 41.049+/-0.411 χ^2/NDF : 7284.2/50
 Out: 38.099+/-0.372 χ^2/NDF : 9442.8/57
 All: 39.427+/-0.275 χ^2/NDF : 16755.4/108

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.957 ± 0.798 χ^2/NDF : 767.4/27

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -23.930 ± 0.762 χ^2/NDF : 638.4/32

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

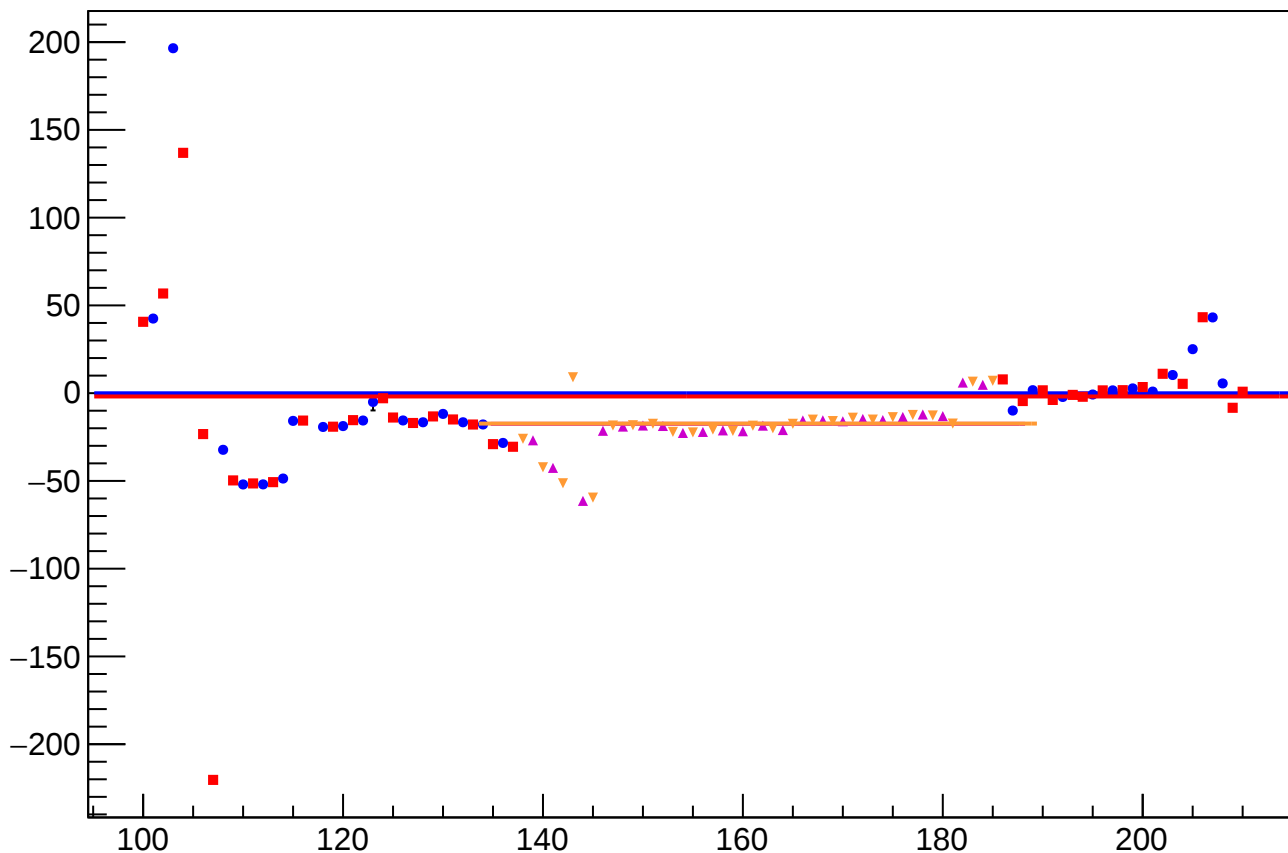
Right: -23.943 ± 0.551 χ^2/NDF : 1405.8/60

In: -14.849 ± 0.396 χ^2/NDF : 1606.2/50

Out: -13.727 ± 0.384 χ^2/NDF : 1431.3/57

All: -14.270 ± 0.276 χ^2/NDF : 3041.6/108

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.076 ± 0.037 χ^2/NDF : 673845.6/27

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.883 ± 0.035 χ^2/NDF : 672067.0/32

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

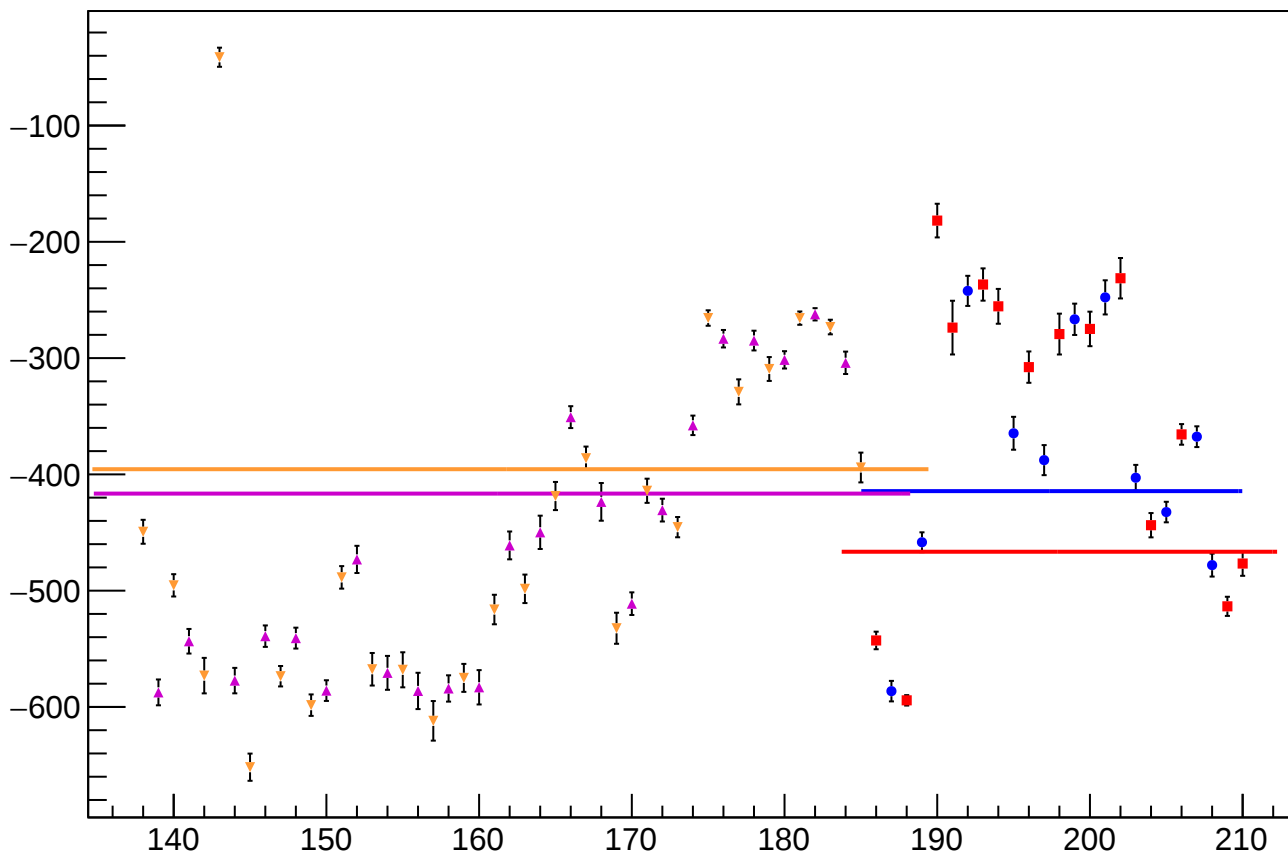
Right: -1.030 ± 0.026 χ^2/NDF : 1347142.5/60

In: -13.421 ± 0.018 χ^2/NDF : 1098880.3/50

Out: -13.481 ± 0.018 χ^2/NDF : 1140268.0/57

All: -13.451 ± 0.013 χ^2/NDF : 2239153.9/108

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -405.762±/-1.399 χ^2/NDF : 9919.7/47

Right: -445.619±/-2.027 χ^2/NDF : 3695.4/24

In: -415.922±/-1.699 χ^2/NDF :4841.3/33

Out: -420.911±/-1.566 χ^2/NDF :9030.9/38

All: -418.620±/-1.152 χ^2/NDF : 13876.9/72

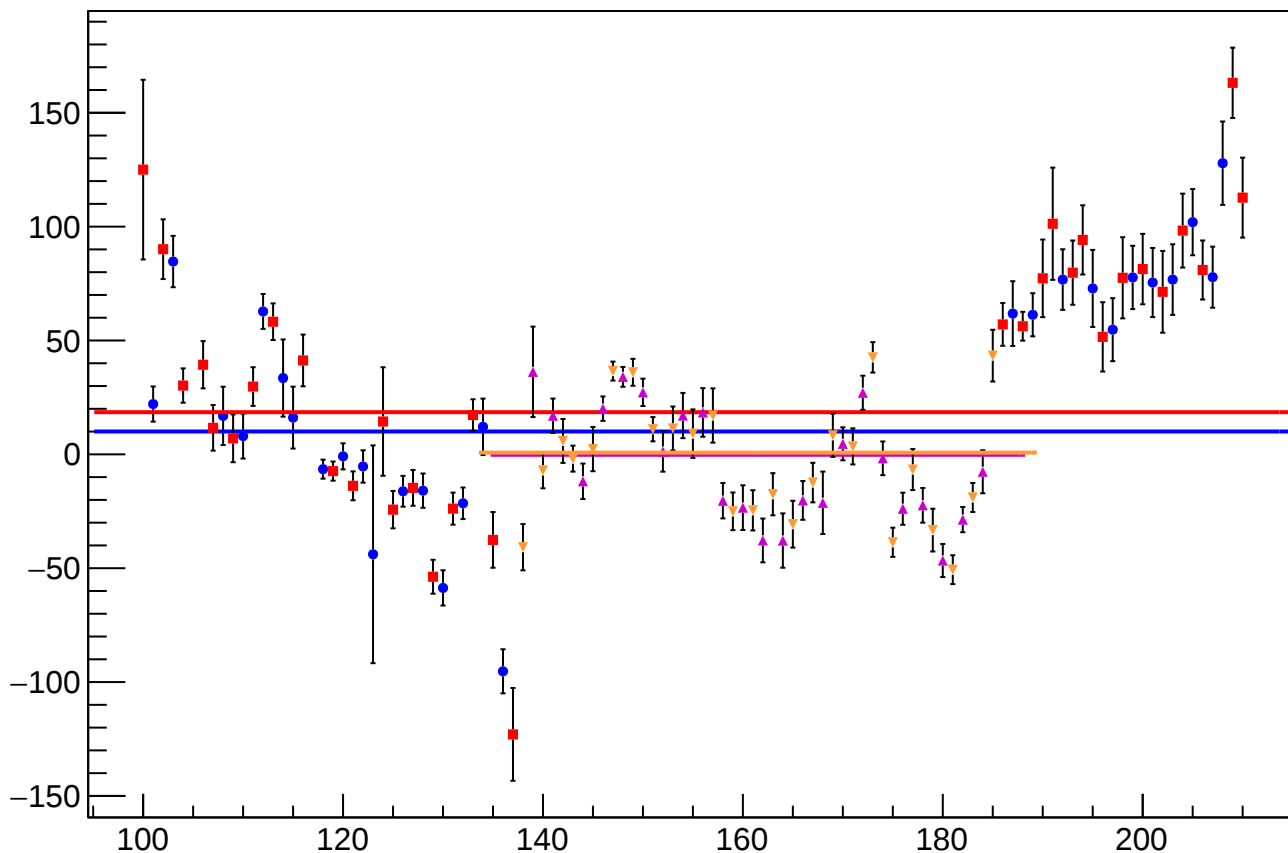
Right In: -414.392±/-3.202 χ^2/NDF : 924.0/10

Left Out: -395.547±/-1.953 χ^2/NDF :5946.5/24

Right Out: -466.525±/-2.620 χ^2/NDF : 2612.6/13

Left In: -416.521±/-2.005 χ^2/NDF :3917.0/22

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.035 ± 1.749 $\chi^2/\text{NDF}: 625.8/27$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 18.516 ± 1.679 $\chi^2/\text{NDF}: 708.5/32$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

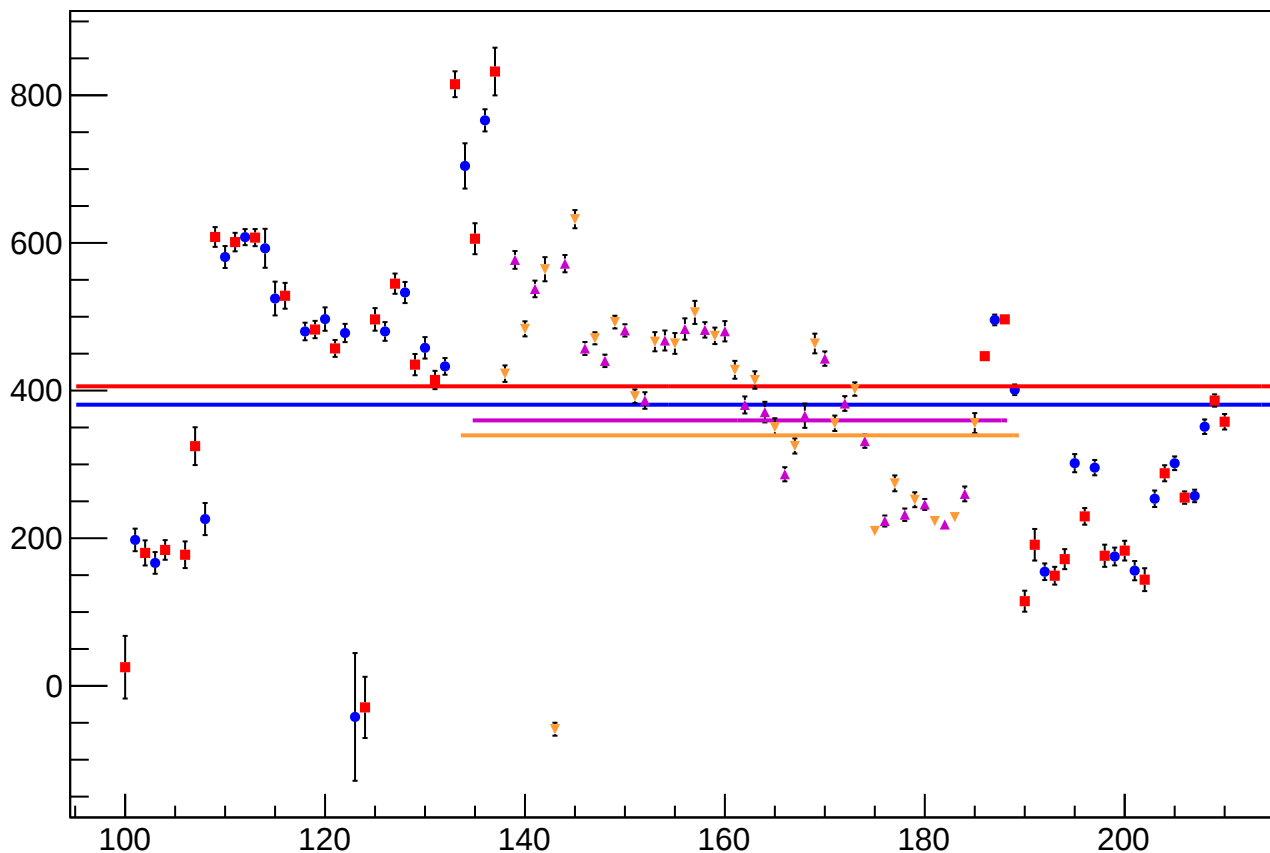
Right: 14.450 ± 1.211 $\chi^2/\text{NDF}: 1346.5/60$

In: 4.382 ± 1.171 $\chi^2/\text{NDF}: 905.5/50$

Out: 8.662 ± 1.120 $\chi^2/\text{NDF}: 1120.6/57$

All: 6.617 ± 0.809 $\chi^2/\text{NDF}: 2033.1/108$

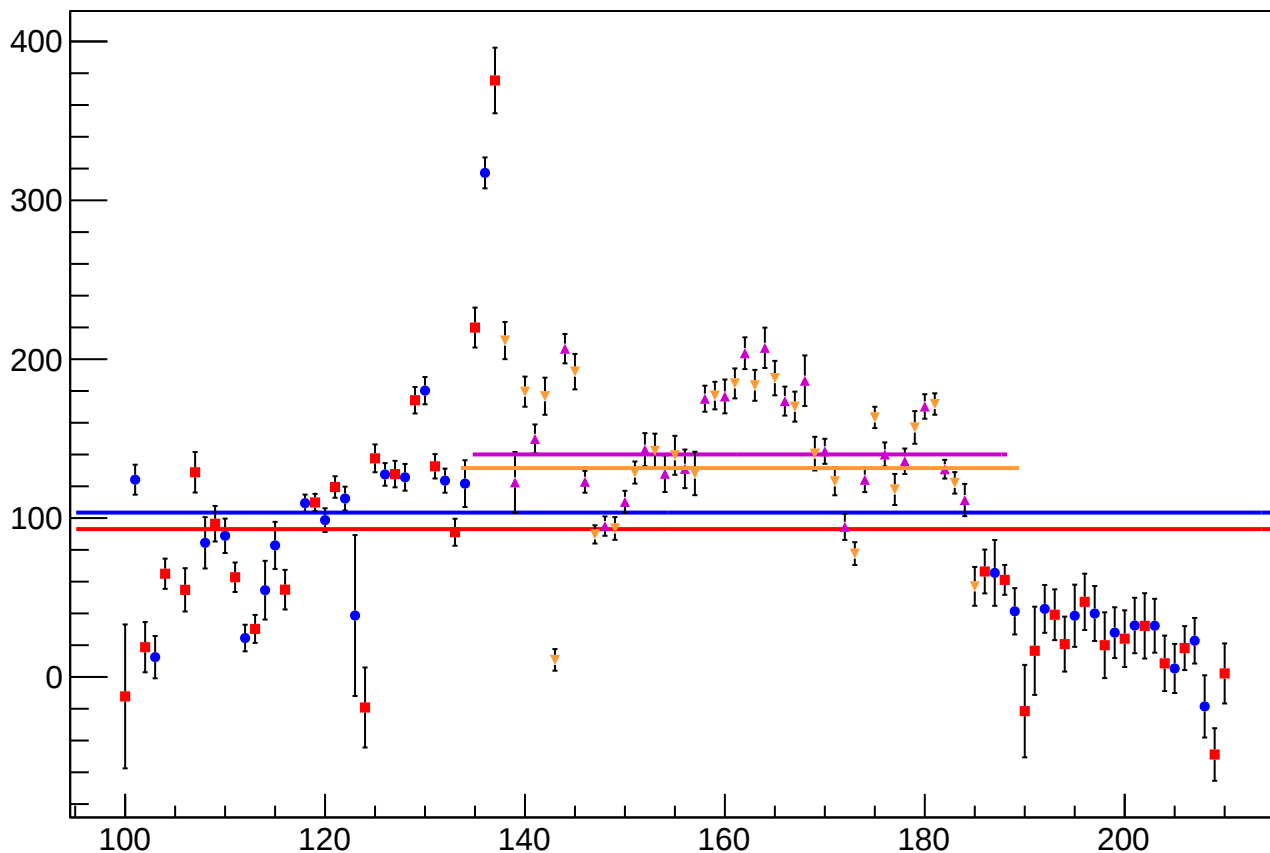
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 380.871 ± 2.277 $\chi^2/\text{NDF}: 4113.3/27$
 Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$
 Right Out: 405.768 ± 1.919 $\chi^2/\text{NDF}: 6105.5/32$
 Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$
 Right: 395.426 ± 1.468 $\chi^2/\text{NDF}: 10288.7/60$
 In: 368.882 ± 1.504 $\chi^2/\text{NDF}: 7560.9/50$
 Out: 373.300 ± 1.372 $\chi^2/\text{NDF}: 12193.3/57$
 All: 371.293 ± 1.014 $\chi^2/\text{NDF}: 19758.9/108$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 103.460 $\pm$ 2.038 χ^2 /NDF: 977.4/27

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 93.068 $\pm$ 1.972 χ^2 /NDF: 881.0/32

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

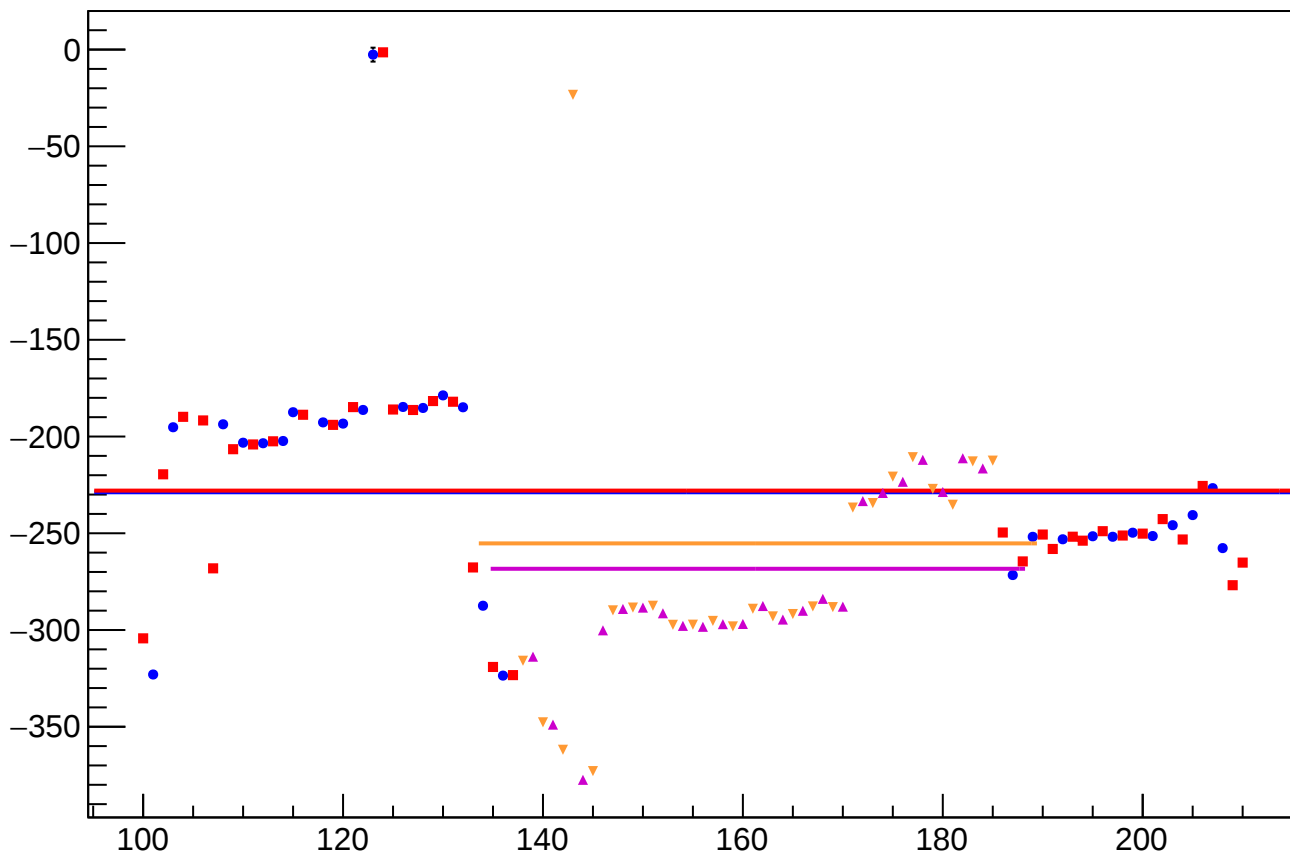
Right: 98.093 $\pm$ 1.417 χ^2 /NDF: 1871.8/60

In: 124.076 $\pm$ 1.347 χ^2 /NDF: 1475.6/50

Out: 114.791 $\pm$ 1.299 χ^2 /NDF: 1904.8/57

All: 119.266 $\pm$ 0.935 χ^2 /NDF: 3405.0/108

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.810 ± 0.108 χ^2/NDF : 168354.8/27

Left Out: -255.232 ± 0.082 χ^2/NDF : 728016.7/24

Right Out: -227.952 ± 0.102 χ^2/NDF : 155187.2/32

Left In: -268.353 ± 0.084 χ^2/NDF : 262479.3/22

Left: -261.661 ± 0.059 χ^2/NDF : 1003051.2/47

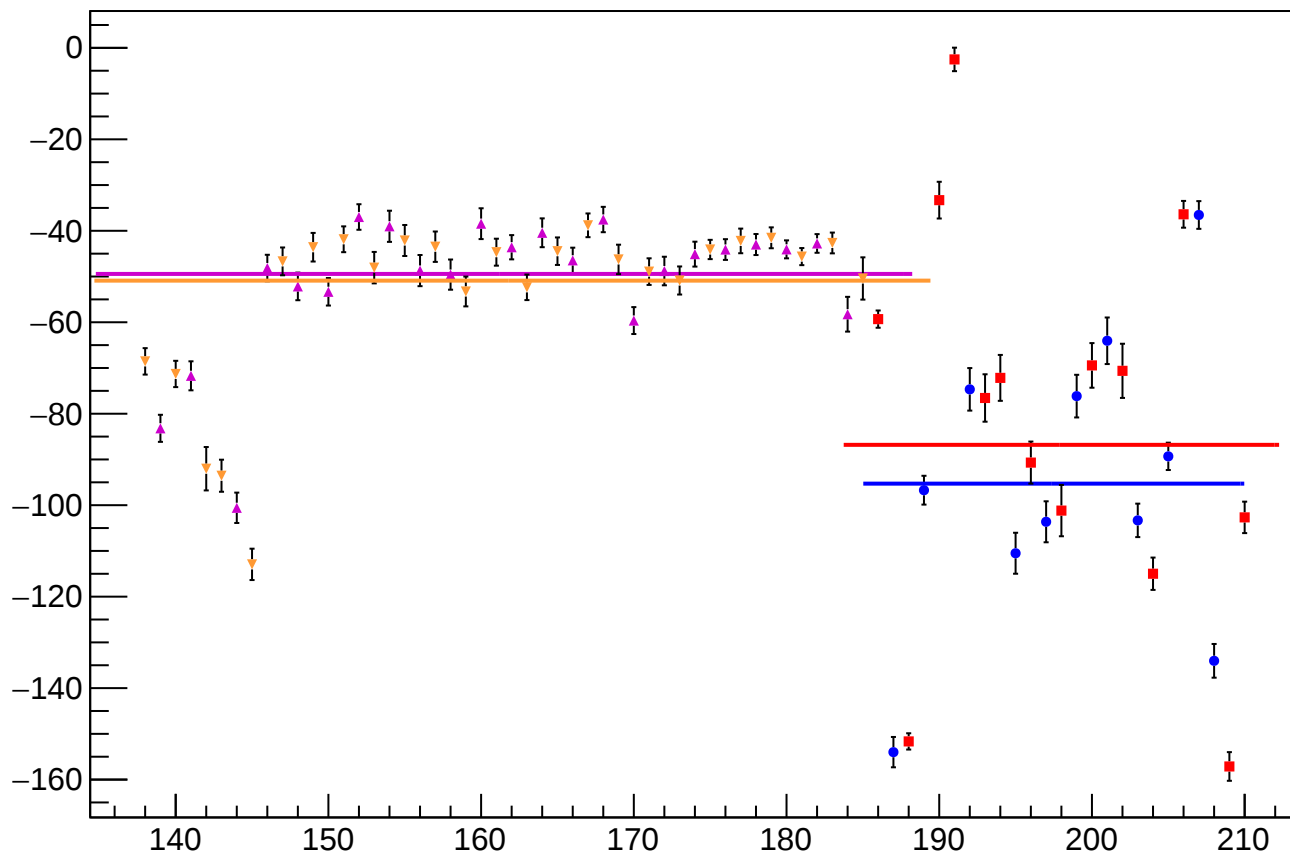
Right: -228.354 ± 0.074 χ^2/NDF : 323575.3/60

In: -253.606 ± 0.066 χ^2/NDF : 514222.1/50

Out: -244.508 ± 0.064 χ^2/NDF : 926753.0/57

All: -248.892 ± 0.046 χ^2/NDF : 1450757.4/10

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -95.288 ± 1.124 χ^2/NDF : 897.5/10

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -86.805 ± 0.839 χ^2/NDF : 3718.3/13

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

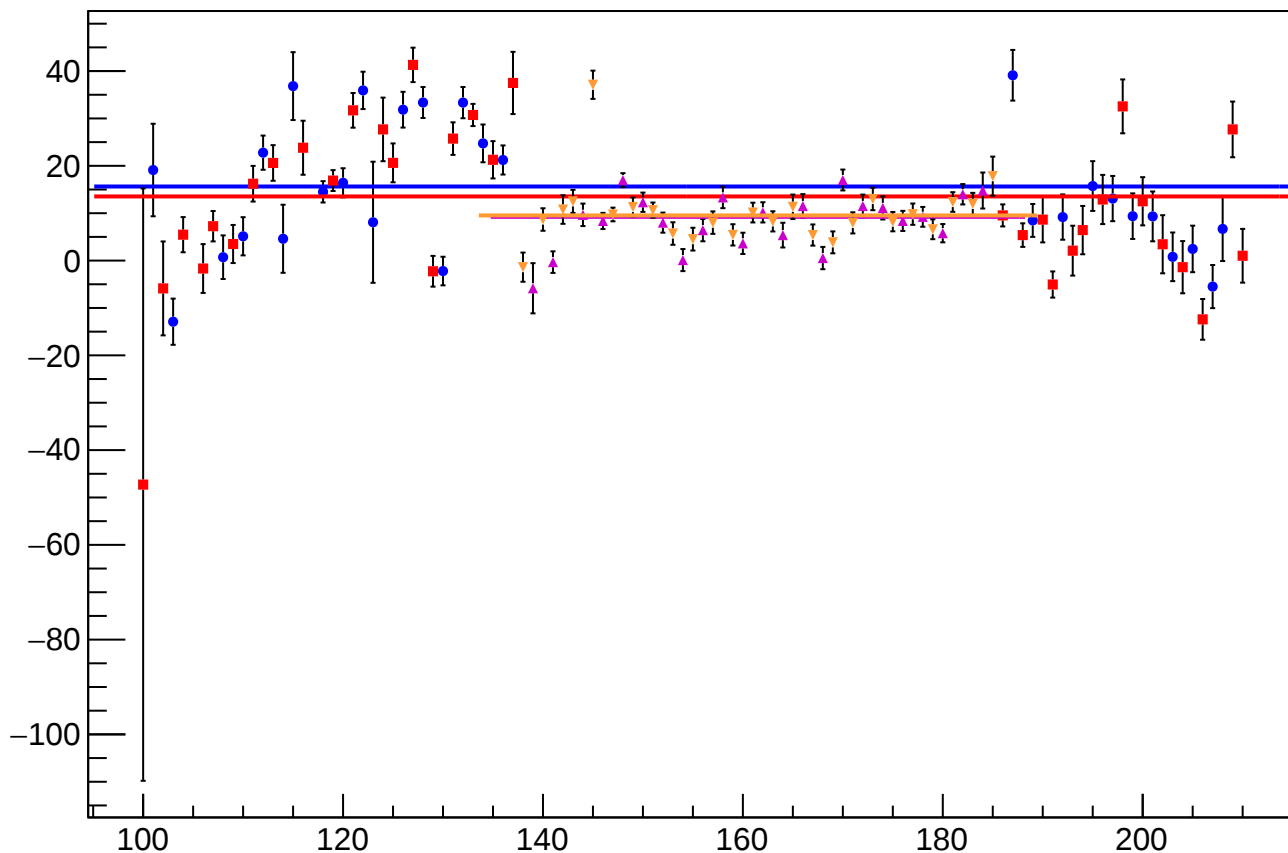
Right: -89.840 ± 0.673 χ^2/NDF : 4652.3/24

In: -59.174 ± 0.518 χ^2/NDF : 2751.0/33

Out: -62.308 ± 0.473 χ^2/NDF : 5728.4/38

All: -60.883 ± 0.349 χ^2/NDF : 8499.4/72

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.636 $\pm$ 0.777 χ^2 /NDF: 281.7/27

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.537 $\pm$ 0.672 χ^2 /NDF: 370.9/32

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

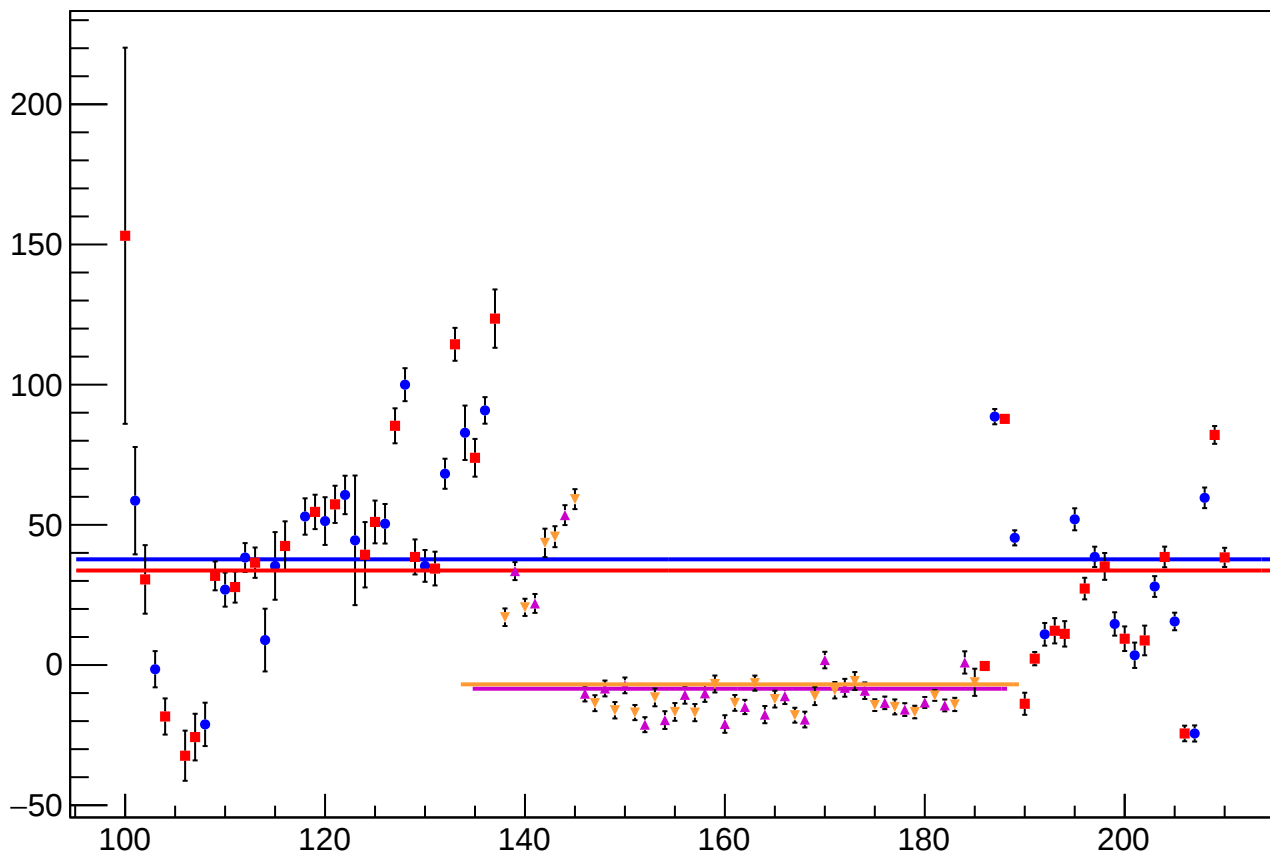
Right: 14.435 $\pm$ 0.508 χ^2 /NDF: 656.8/60

In: 10.902 $\pm$ 0.397 χ^2 /NDF:455.9/50

Out: 10.756 $\pm$ 0.371 χ^2 /NDF:529.9/57

All: 10.824 $\pm$ 0.271 χ^2 /NDF: 985.9/108

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.705 ± 0.876 $\chi^2/\text{NDF}: 1479.0/27$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 33.714 ± 0.669 $\chi^2/\text{NDF}: 3596.1/32$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

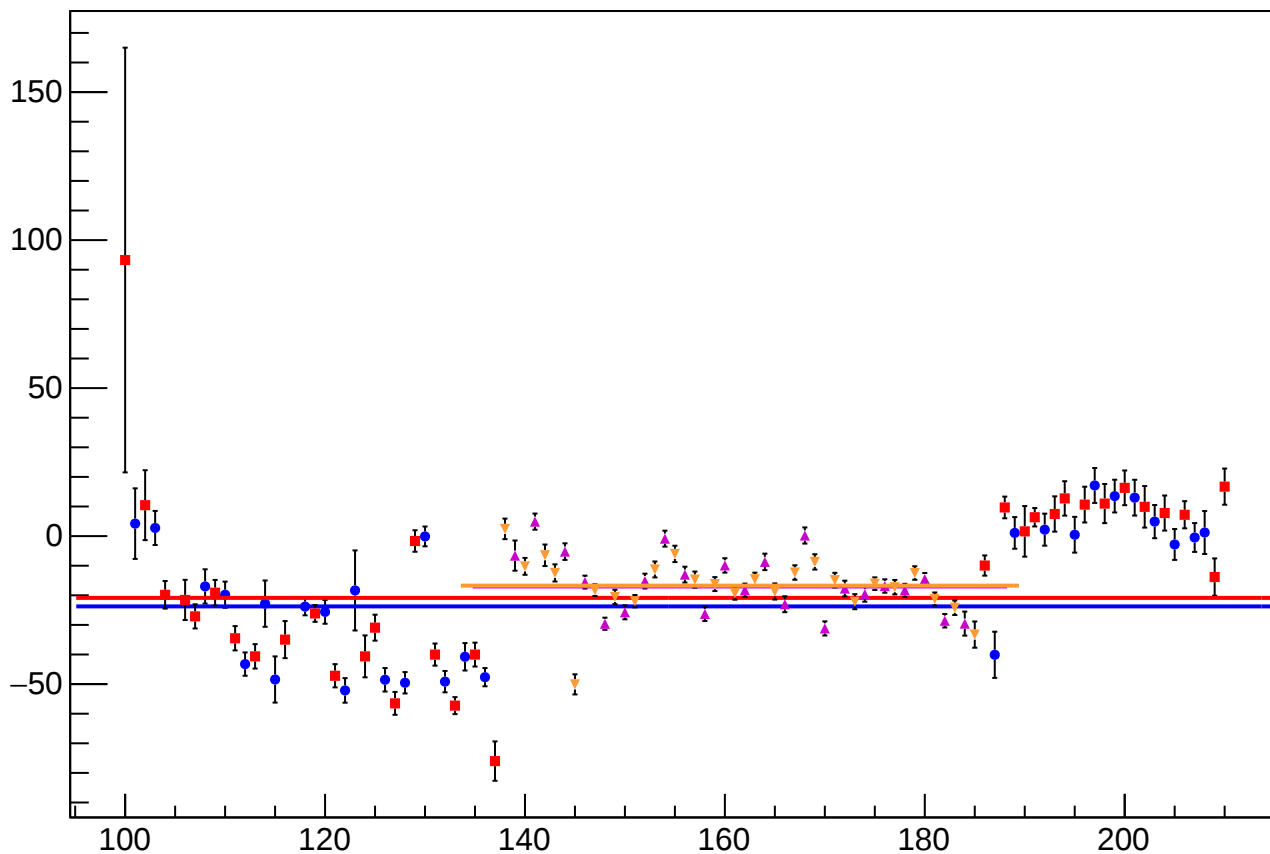
Right: 35.184 ± 0.531 $\chi^2/\text{NDF}: 5088.3/60$

In: 5.616 ± 0.483 $\chi^2/\text{NDF}: 4099.3/50$

Out: 10.235 ± 0.434 $\chi^2/\text{NDF}: 6642.8/57$

All: 8.173 ± 0.323 $\chi^2/\text{NDF}: 10792.6/108$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.747 ± 0.896 $\chi^2/\text{NDF}: 646.0/27$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -20.868 ± 0.796 $\chi^2/\text{NDF}: 933.2/32$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

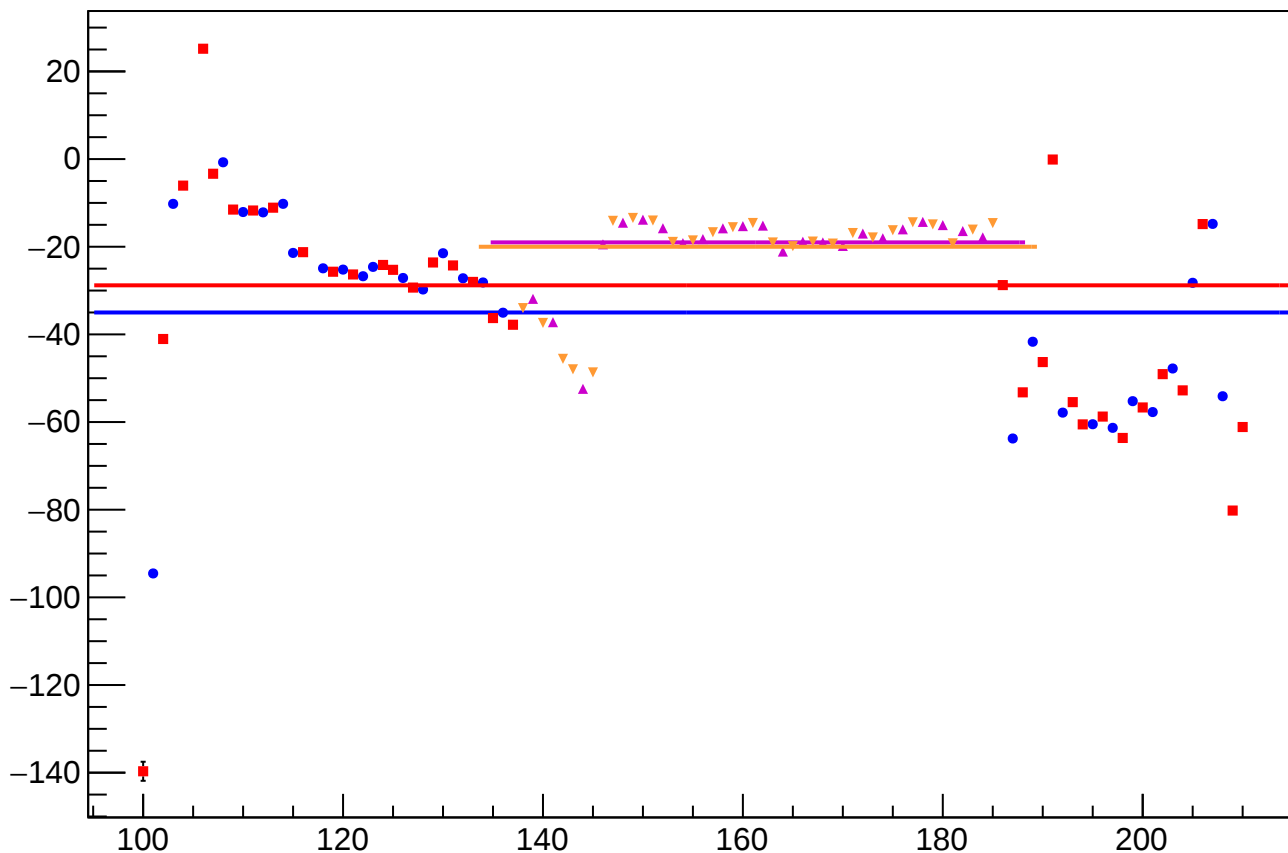
Right: -22.139 ± 0.595 $\chi^2/\text{NDF}: 1585.0/60$

In: -18.727 ± 0.451 $\chi^2/\text{NDF}: 1015.7/50$

Out: -17.925 ± 0.427 $\chi^2/\text{NDF}: 1175.6/57$

All: -18.305 ± 0.310 $\chi^2/\text{NDF}: 2193.0/108$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.001 ± 0.042 $\chi^2/\text{NDF}: 217628.6/27$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -28.806 ± 0.036 $\chi^2/\text{NDF}: 459578.0/32$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

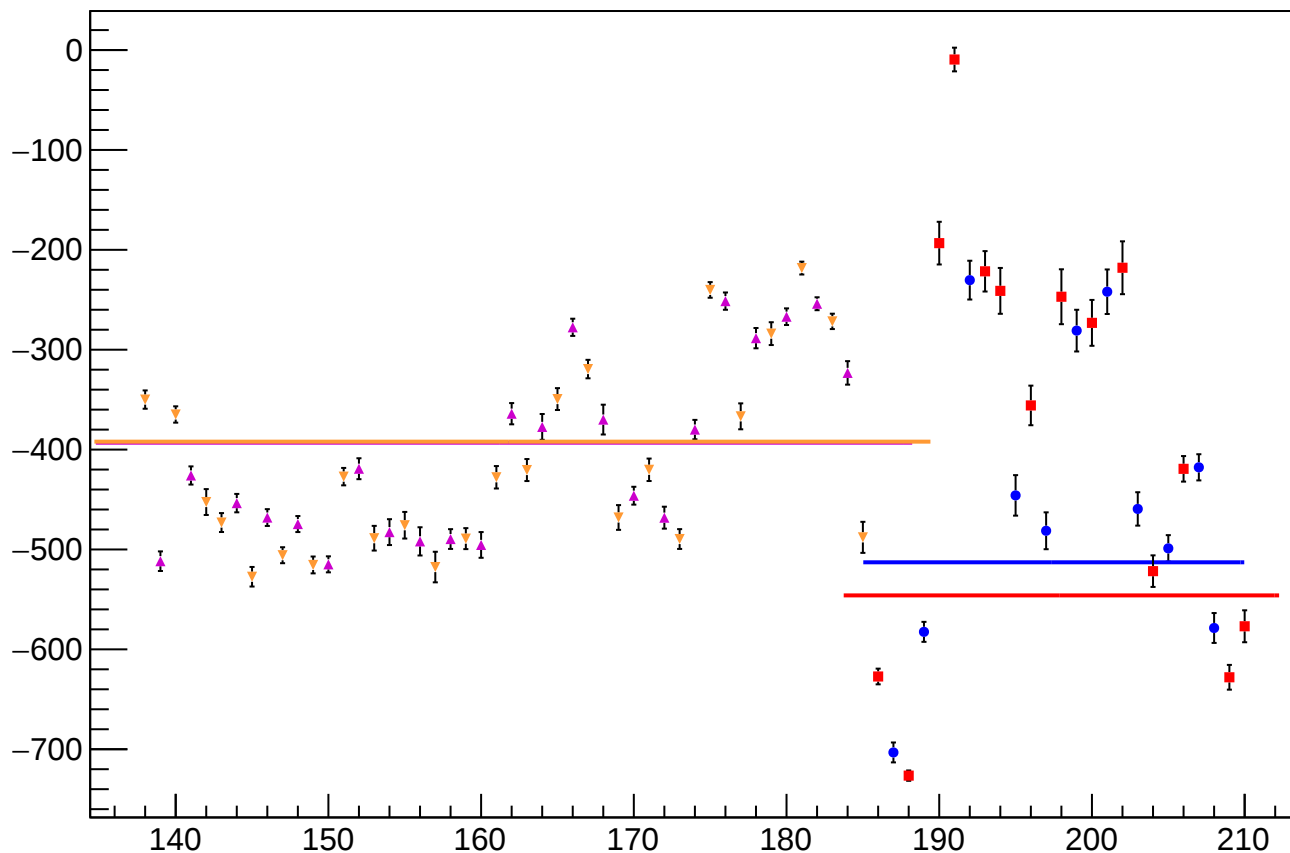
Right: -31.439 ± 0.028 $\chi^2/\text{NDF}: 689513.7/60$

In: -22.816 ± 0.021 $\chi^2/\text{NDF}: 417192.7/50$

Out: -22.563 ± 0.020 $\chi^2/\text{NDF}: 646658.8/57$

All: -22.683 ± 0.014 $\chi^2/\text{NDF}: 1063930.5/108$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -512.848 $\pm$ 4.386 χ^2/NDF : 993.4/10

Left Out: -392.054 $\pm$ 1.967 χ^2/NDF : 2717.2/24

Right Out: -545.982 $\pm$ 3.247 χ^2/NDF : 4727.6/13

Left In: -393.113 $\pm$ 2.006 χ^2/NDF : 2253.3/22

Left: -392.573 $\pm$ 1.404 χ^2/NDF : 4970.6/47

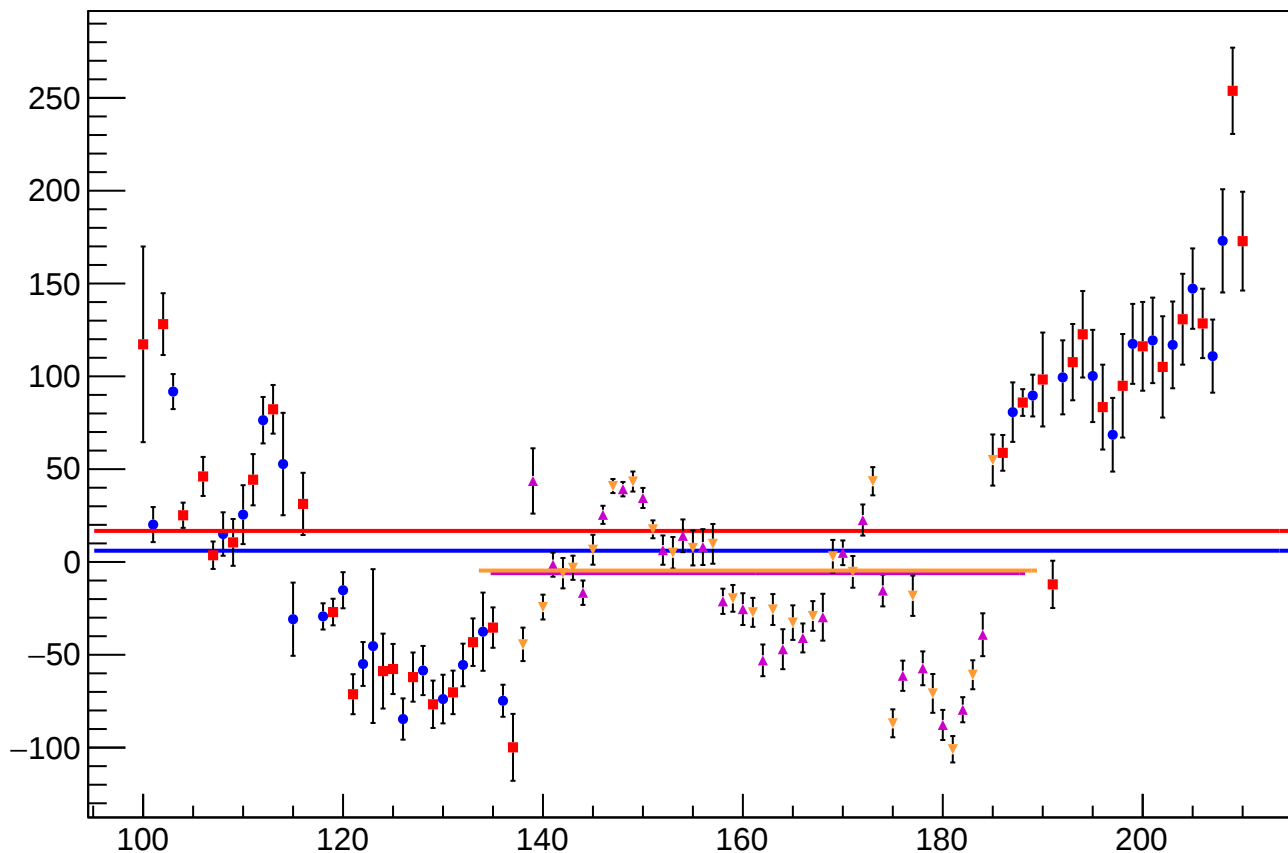
Right: -534.251 $\pm$ 2.610 χ^2/NDF : 5757.8/24

In: -413.820 $\pm$ 1.824 χ^2/NDF : 3863.1/33

Out: -433.362 $\pm$ 1.682 χ^2/NDF : 9088.8/38

All: -424.380 $\pm$ 1.237 χ^2/NDF : 13014.0/72

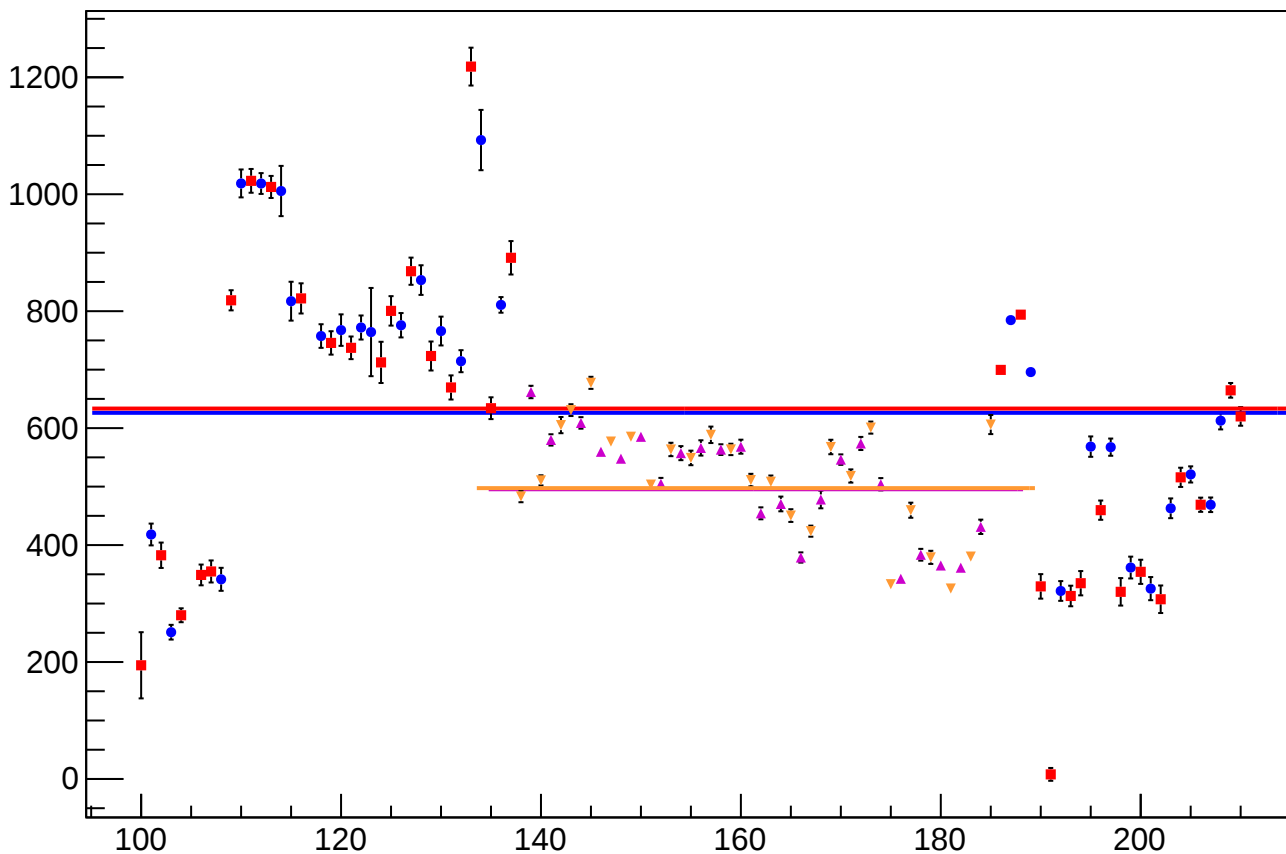
reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.060 ± 2.535 $\chi^2/\text{NDF}: 734.6/27$
 Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$
 Right Out: 16.738 ± 2.221 $\chi^2/\text{NDF}: 876.7/32$
 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: 12.101 ± 1.671 $\chi^2/\text{NDF}: 1621.3/60$
 In: -2.836 ± 1.301 $\chi^2/\text{NDF}: 1405.4/50$
 Out: 1.835 ± 1.221 $\chi^2/\text{NDF}: 1714.1/57$
 All: -0.353 ± 0.891 $\chi^2/\text{NDF}: 3126.3/108$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 626.197 $\pm$ 3.090 χ^2 /NDF: 4212.8/27

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 633.477 $\pm$ 2.398 χ^2 /NDF: 9628.8/32

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

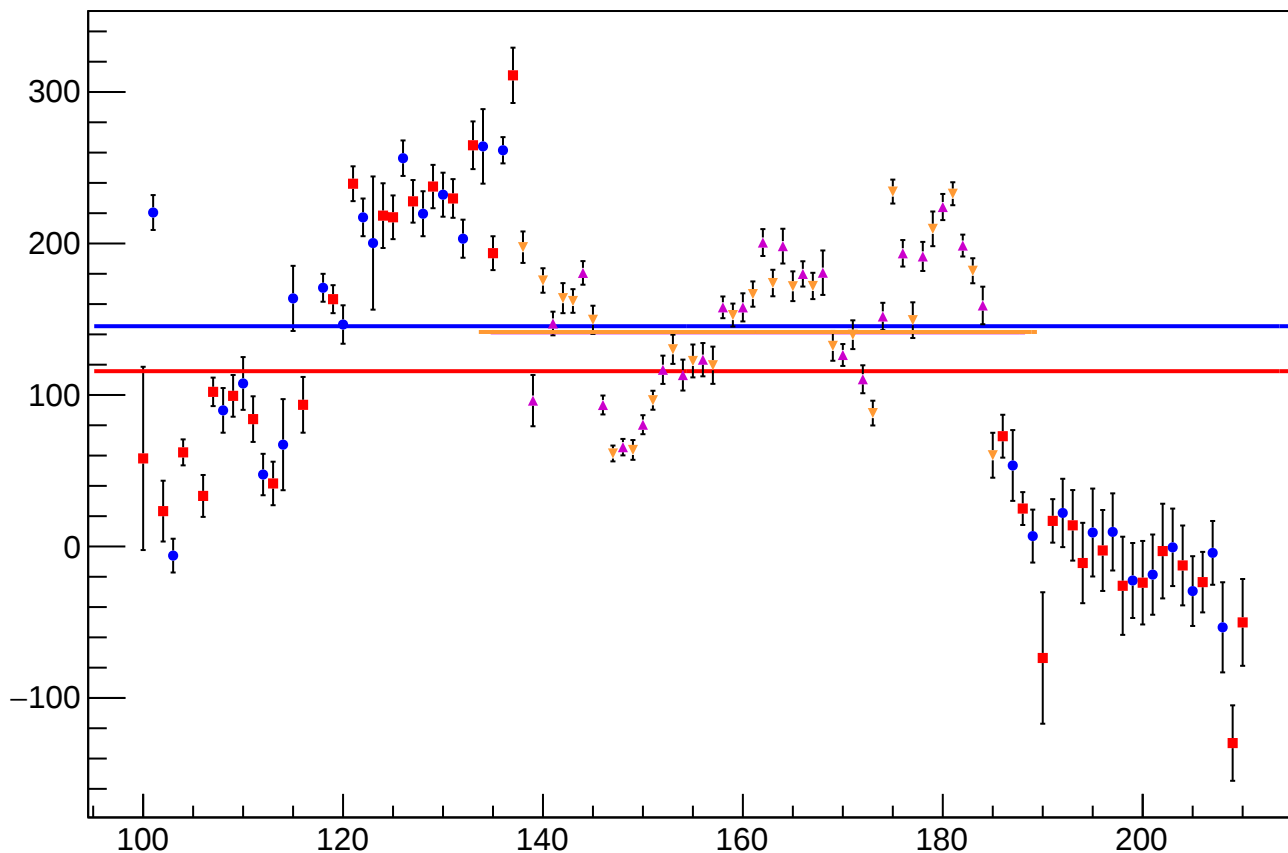
Right: 630.739 $\pm$ 1.895 χ^2 /NDF: 13845.1/60

In: 533.846 $\pm$ 1.674 χ^2 /NDF:7731.3/50

Out: 552.074 $\pm$ 1.520 χ^2 /NDF:14169.4/57

All: 543.836 $\pm$ 1.126 χ^2 /NDF: 21965.7/108

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 145.399 $\pm$ 2.954 χ^2 /NDF: 1149.9/27

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 115.712 $\pm$ 2.659 χ^2 /NDF: 1285.4/32

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

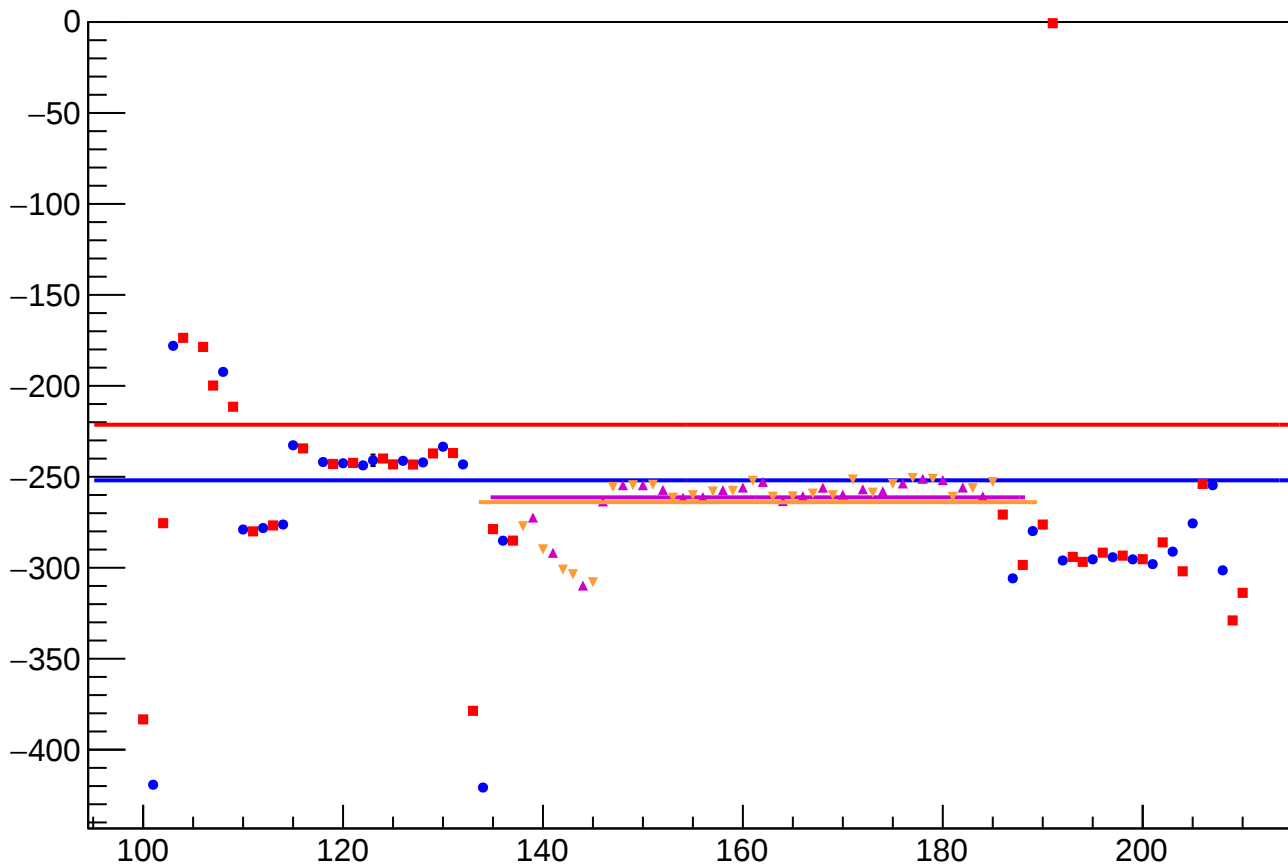
Right: 129.002 $\pm$ 1.976 χ^2 /NDF: 2491.1/60

In: 142.408 $\pm$ 1.504 χ^2 /NDF:1892.5/50

Out: 134.092 $\pm$ 1.431 χ^2 /NDF:2312.2/57

All: 138.043 $\pm$ 1.037 χ^2 /NDF: 4220.8/108

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.934+/-0.137 χ^2 /NDF: 196935.0/27

Left Out: -263.943+/-0.081 χ^2 /NDF: 39085.0/24

Right Out: -221.360+/-0.122 χ^2 /NDF: 506787.2/32

Left In: -261.286+/-0.082 χ^2 /NDF: 23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

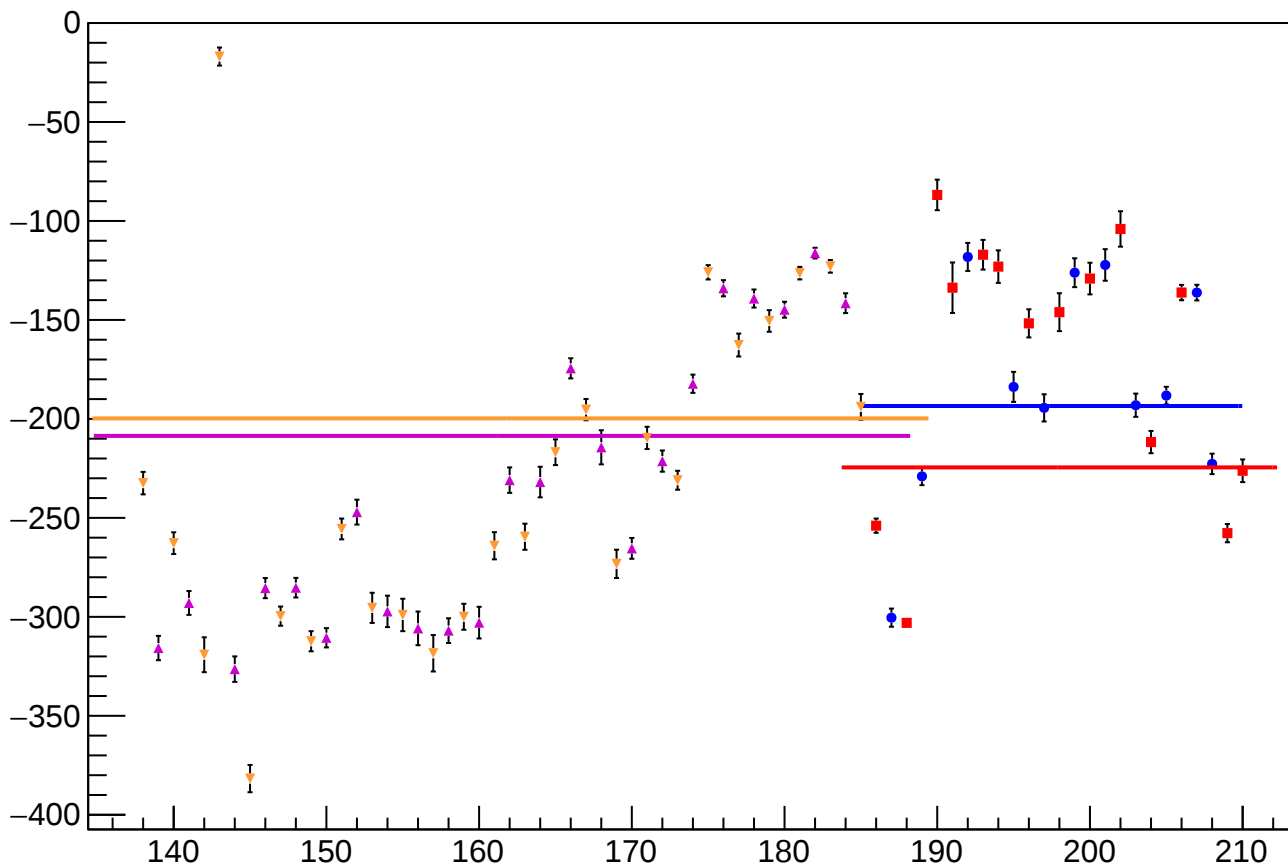
Right: -234.852+/-0.091 χ^2 /NDF: 731501.5/60

In: -258.824+/-0.070 χ^2 /NDF: 223710.4/50

Out: -250.839+/-0.068 χ^2 /NDF: 630408.8/57

All: -254.672+/-0.049 χ^2 /NDF: 860817.1/108

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -193.484 ± 1.637 $\chi^2/\text{NDF}: 1129.9/10$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -224.496 ± 1.354 $\chi^2/\text{NDF}: 2964.7/13$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

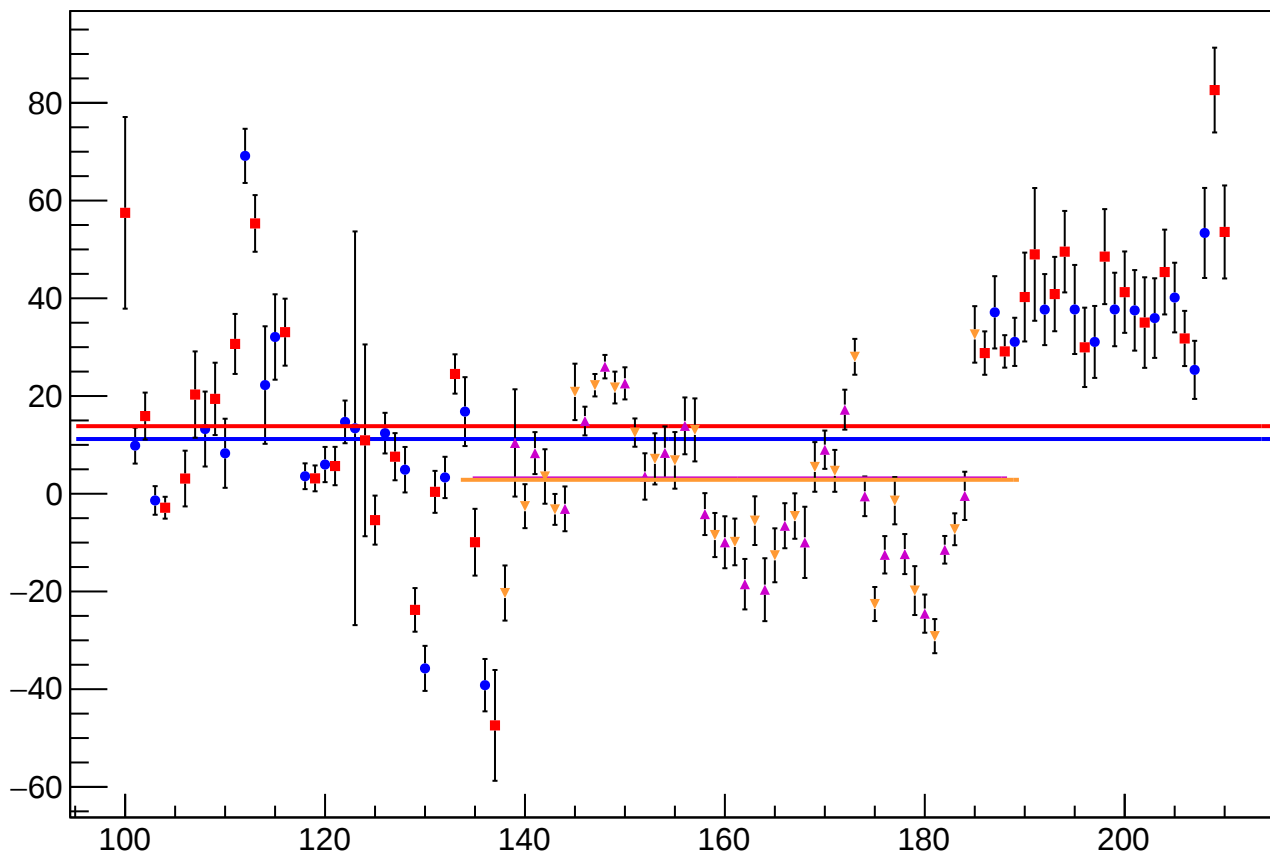
Right: -211.900 ± 1.043 $\chi^2/\text{NDF}: 4307.6/24$

In: -203.989 ± 0.903 $\chi^2/\text{NDF}: 5994.1/33$

Out: -209.159 ± 0.835 $\chi^2/\text{NDF}: 9533.2/38$

All: -206.775 ± 0.613 $\chi^2/\text{NDF}: 15545.0/72$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.199 $\pm$ 0.985 χ^2 /NDF: 476.3/27

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 13.829 $\pm$ 0.919 χ^2 /NDF: 513.1/32

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

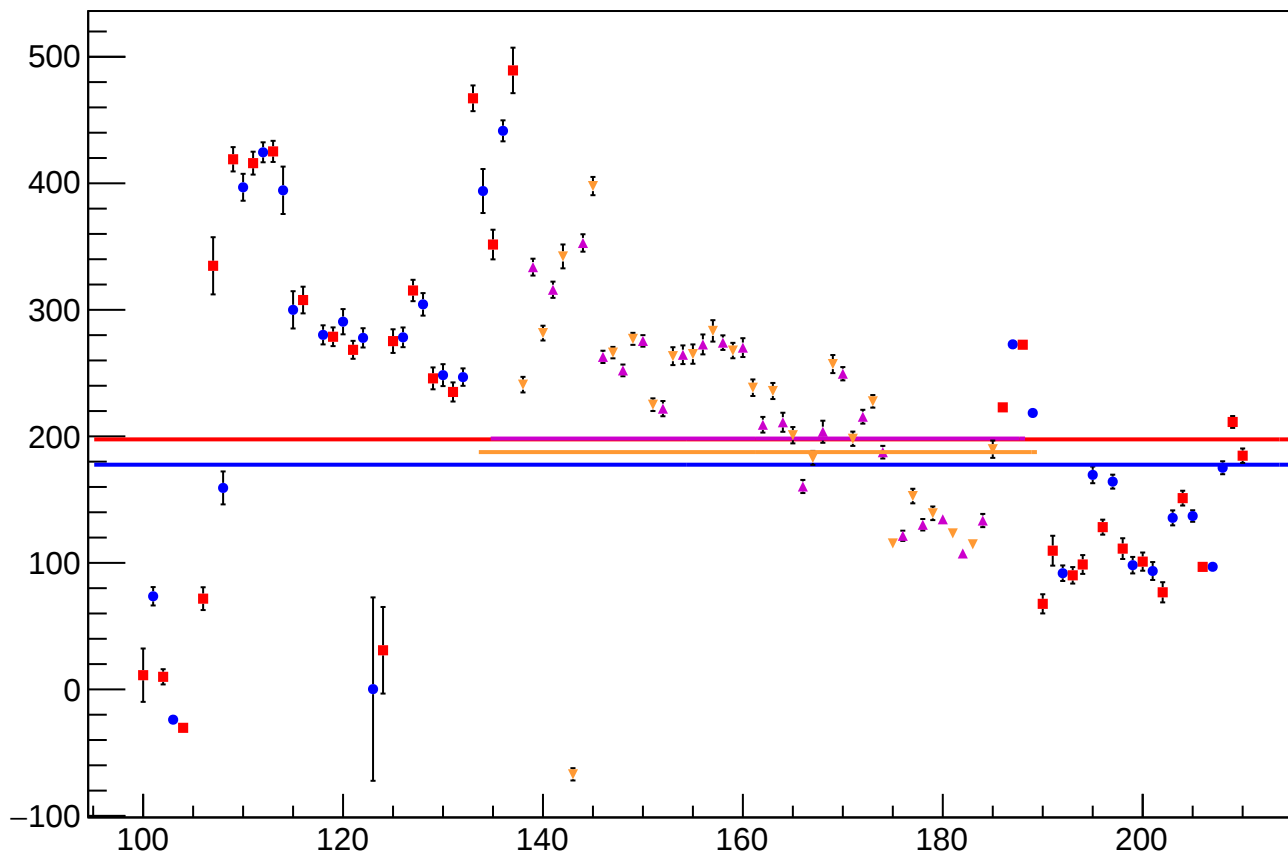
Right: 12.605 $\pm$ 0.672 χ^2 /NDF: 993.2/60

In: 6.610 $\pm$ 0.646 χ^2 /NDF: 834.2/50

Out: 7.719 $\pm$ 0.612 χ^2 /NDF: 1012.4/57

All: 7.195 $\pm$ 0.444 χ^2 /NDF: 1848.2/108

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 177.596 $\pm$ 1.190 χ^2 /NDF: 8684.6/27

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.614 $\pm$ 1.005 χ^2 /NDF: 12144.7/32

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

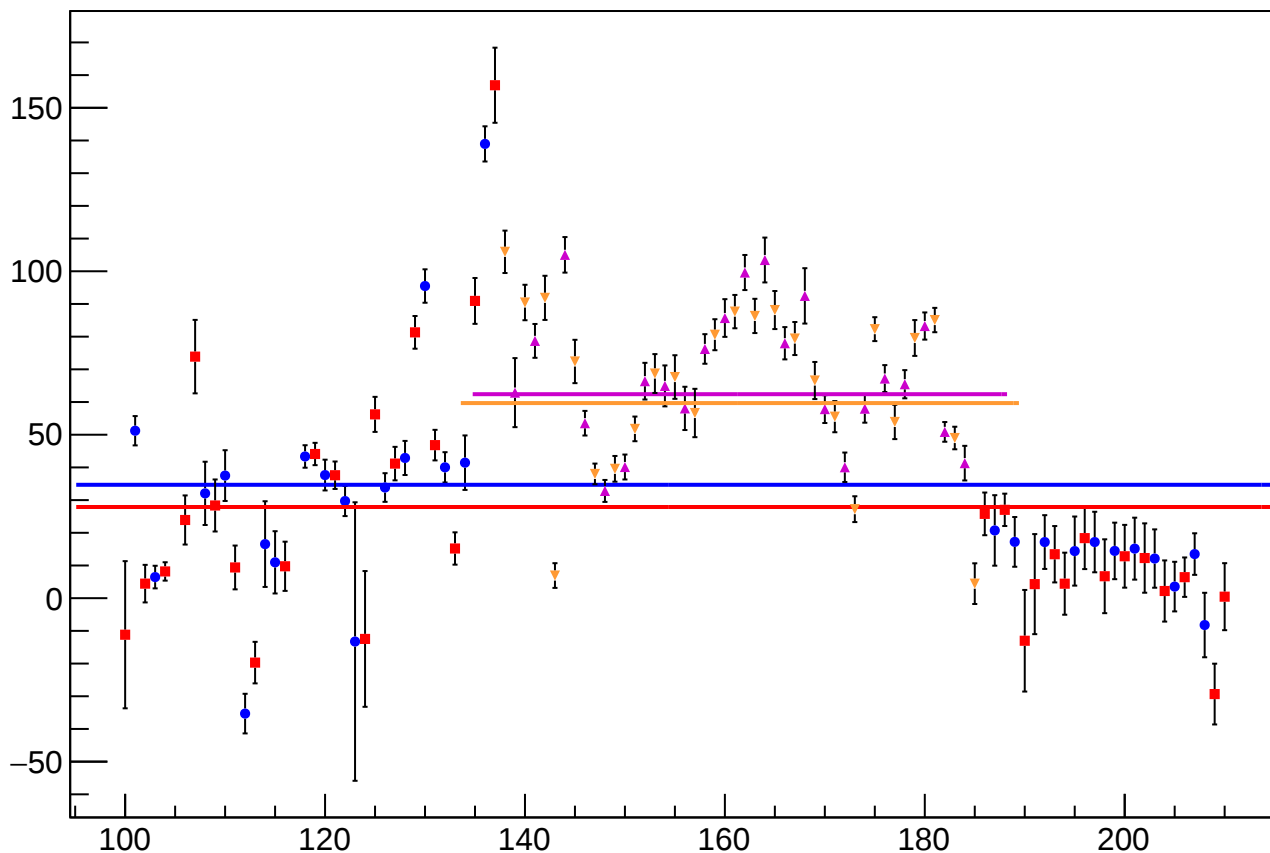
Right: 189.277 $\pm$ 0.768 χ^2 /NDF: 20994.4/60

In: 188.916 $\pm$ 0.800 χ^2 /NDF: 13365.6/50

Out: 192.883 $\pm$ 0.731 χ^2 /NDF: 19273.8/57

All: 191.078 $\pm$ 0.540 χ^2 /NDF: 32652.8/108

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 34.685 $\pm$ 1.150 χ^2/NDF : 834.2/27

Left Out: 59.682 $\pm$ 0.941 χ^2/NDF :757.6/24

Right Out: 27.891 $\pm$ -1.095 χ^2/NDF : 658.6/32

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

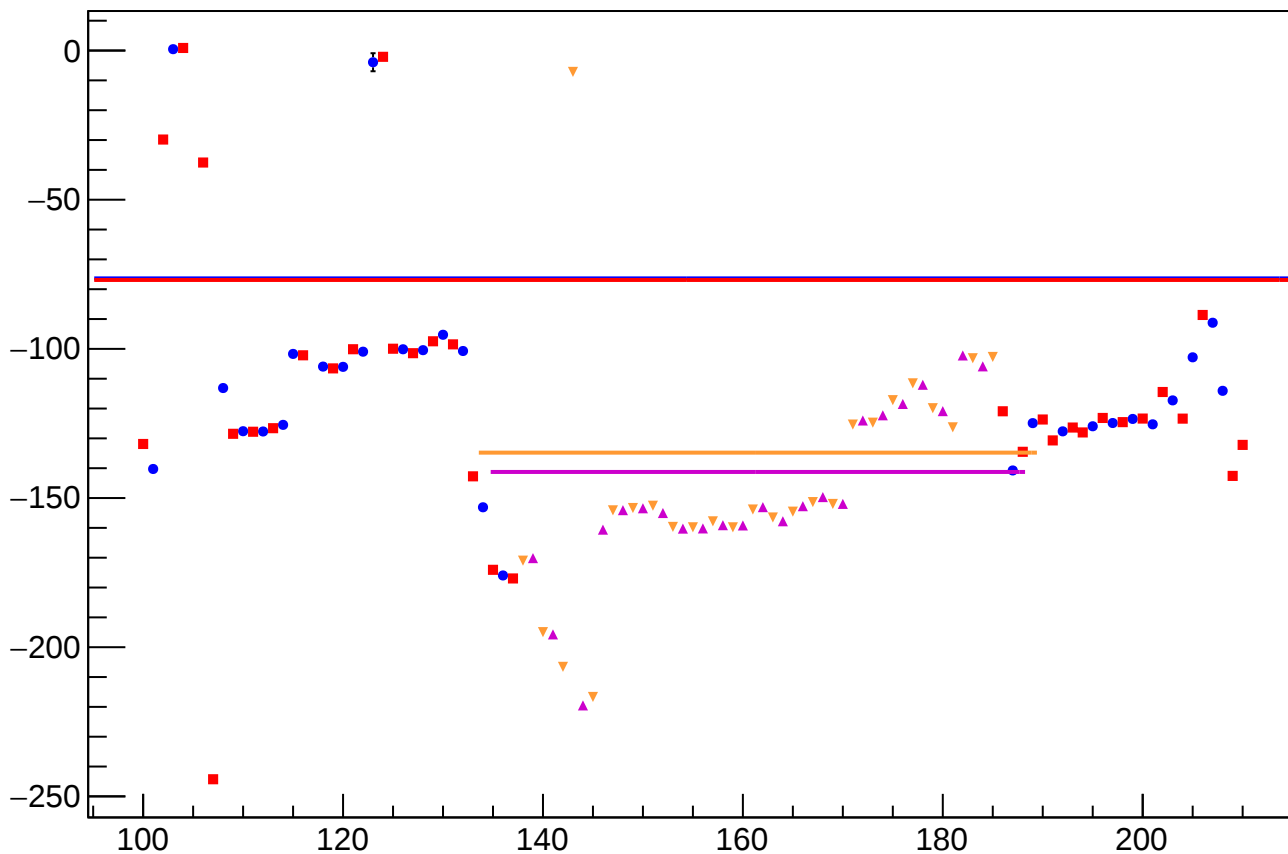
Right: 31.122 $\pm$ -0.793 χ^2/NDF : 1511.0/60

In: 50.825 $\pm$ -0.743 χ^2/NDF :1578.5/50

Out: 46.187 $\pm$ -0.714 χ^2/NDF :1900.9/57

All: 48.411 $\pm$ -0.515 χ^2/NDF : 3499.7/108

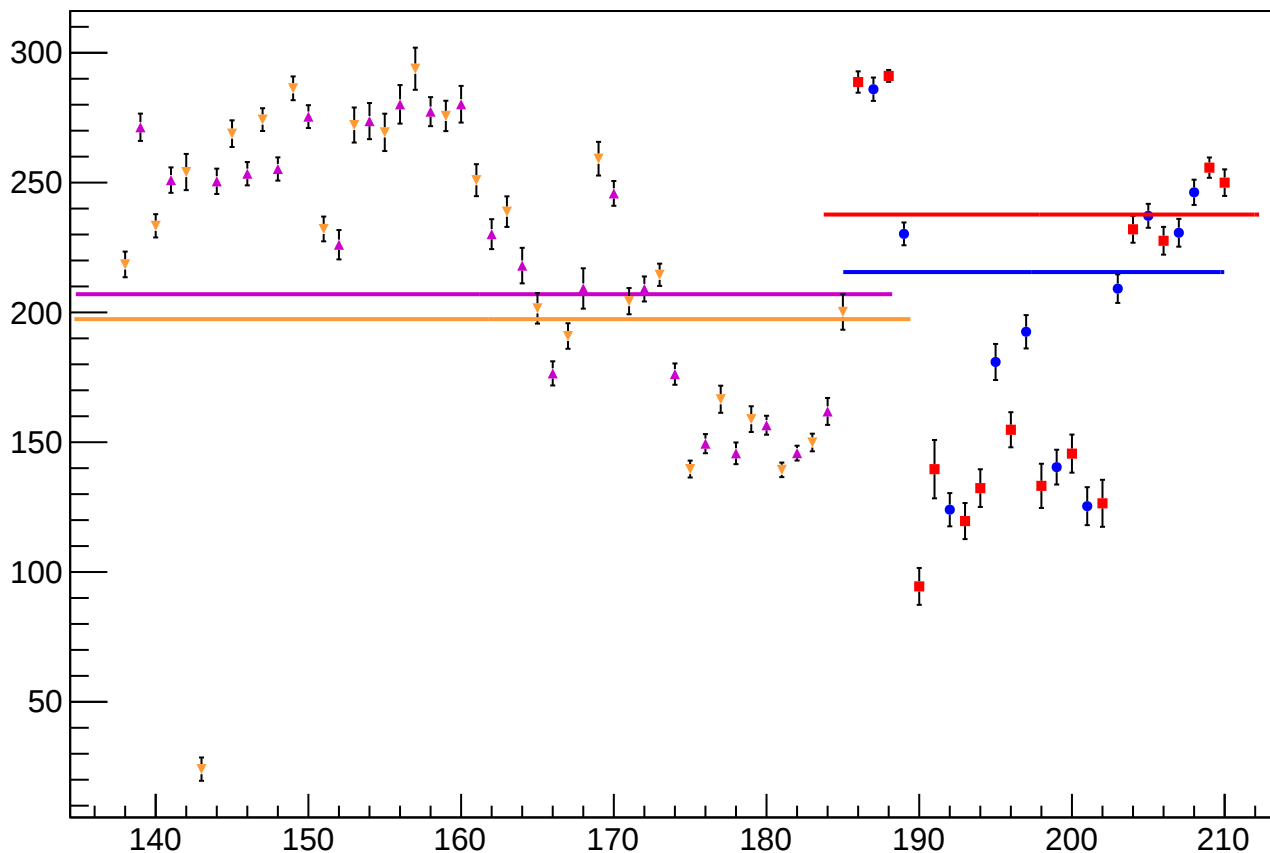
reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -76.374 ± 0.051 $\chi^2/\text{NDF}: 1412592.8/27$
 Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$
 Right Out: -76.897 ± 0.049 $\chi^2/\text{NDF}: 1433041.1/32$
 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: -76.647 ± 0.036 $\chi^2/\text{NDF}: 2845687.8/60$
 In: -112.861 ± 0.034 $\chi^2/\text{NDF}: 2657918.4/50$
 Out: -108.750 ± 0.033 $\chi^2/\text{NDF}: 2998555.9/57$
 All: -110.747 ± 0.024 $\chi^2/\text{NDF}: 5664008.9/100$

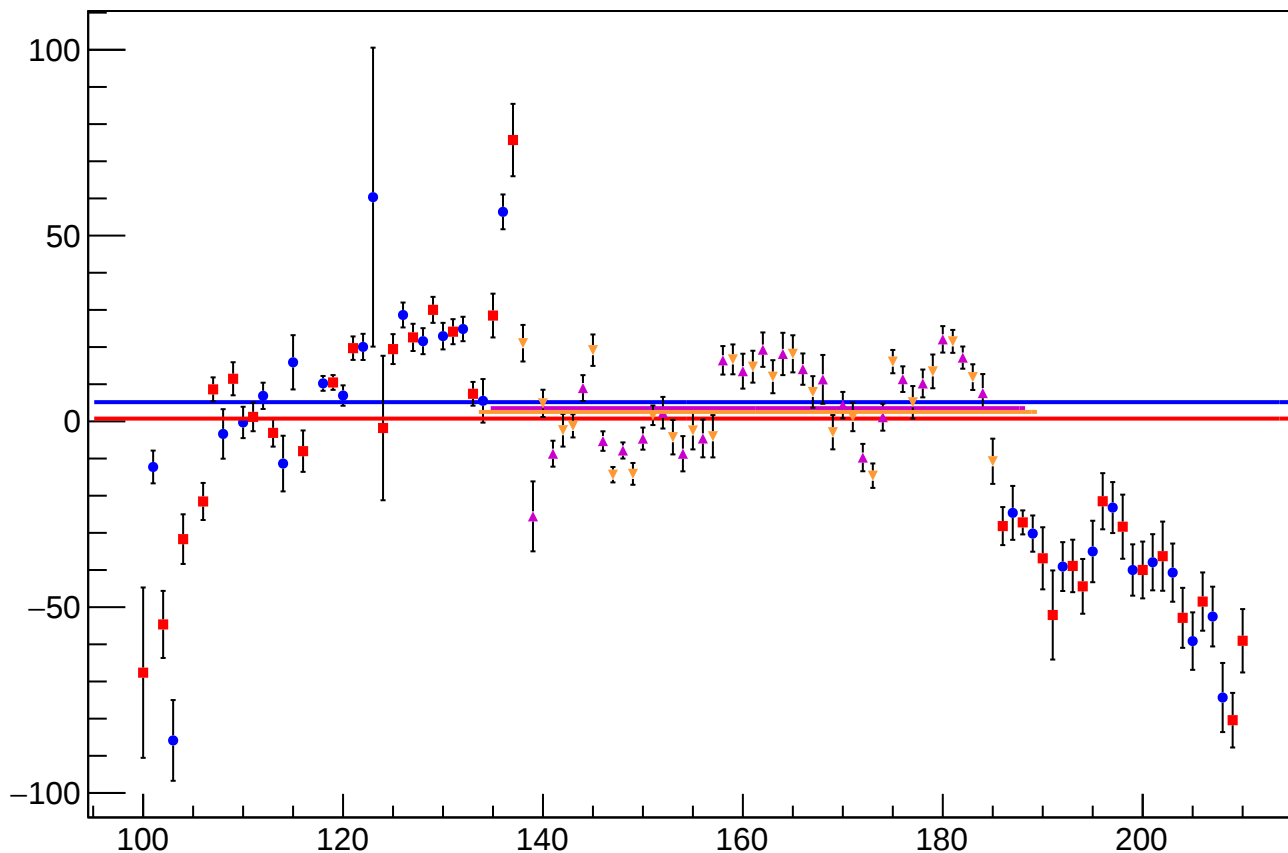
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 215.540 ± 1.647 $\chi^2/\text{NDF}: 848.1/10$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 237.694 ± 1.335 $\chi^2/\text{NDF}: 2326.7/13$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 228.911 ± 1.037 $\chi^2/\text{NDF}: 3284.0/24$
 In: 209.278 ± 0.849 $\chi^2/\text{NDF}: 3479.3/33$
 Out: 211.198 ± 0.781 $\chi^2/\text{NDF}: 7310.1/38$
 All: 210.318 ± 0.575 $\chi^2/\text{NDF}: 10792.1/72$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.175 ± 0.859 $\chi^2/\text{NDF}: 833.1/27$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 0.750 ± 0.813 $\chi^2/\text{NDF}: 961.0/32$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

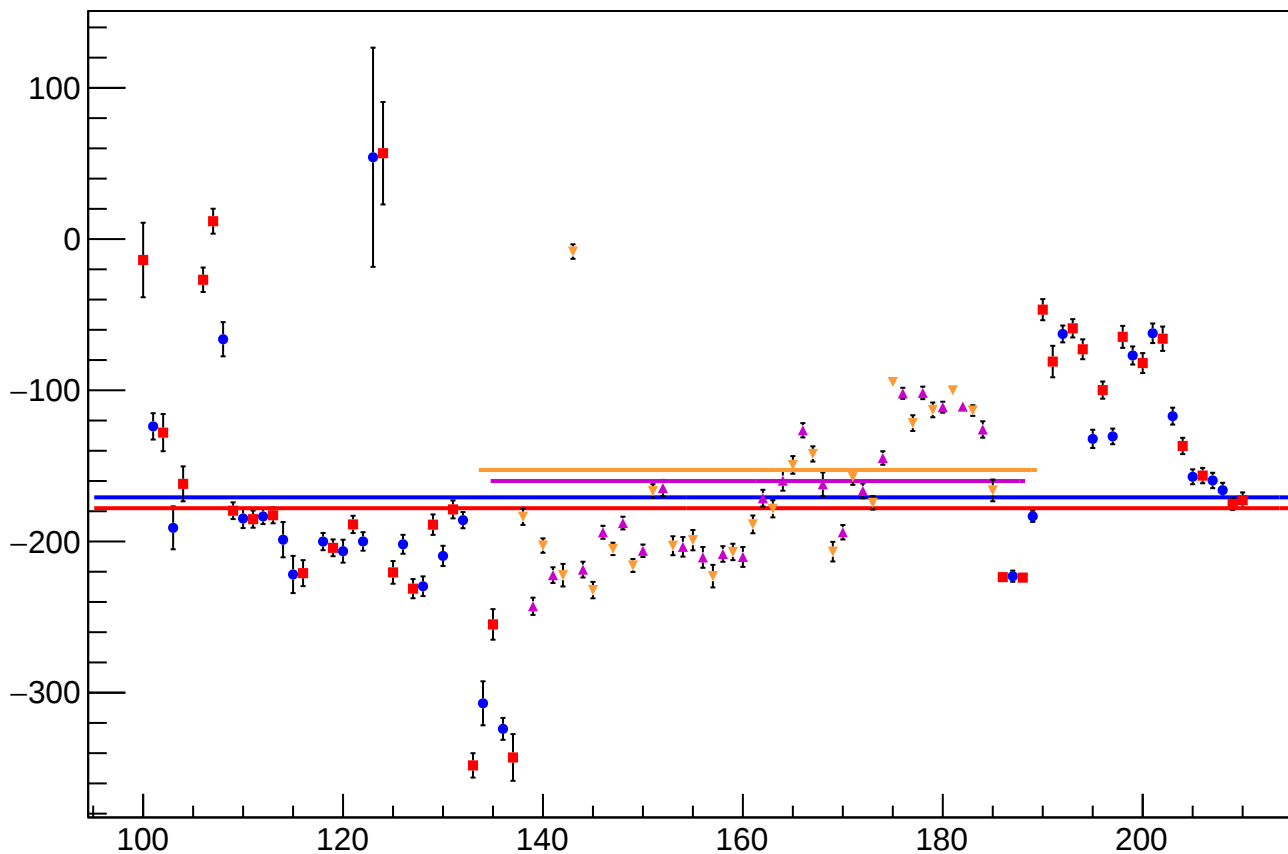
Right: 2.841 ± 0.591 $\chi^2/\text{NDF}: 1808.1/60$

In: 4.283 ± 0.575 $\chi^2/\text{NDF}: 1027.1/50$

Out: 1.732 ± 0.548 $\chi^2/\text{NDF}: 1239.1/57$

All: 2.946 ± 0.397 $\chi^2/\text{NDF}: 2276.5/108$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -170.802 ± 1.150 χ^2/NDF : 2231.9/27

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -177.985 ± 0.963 χ^2/NDF : 4580.1/32

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

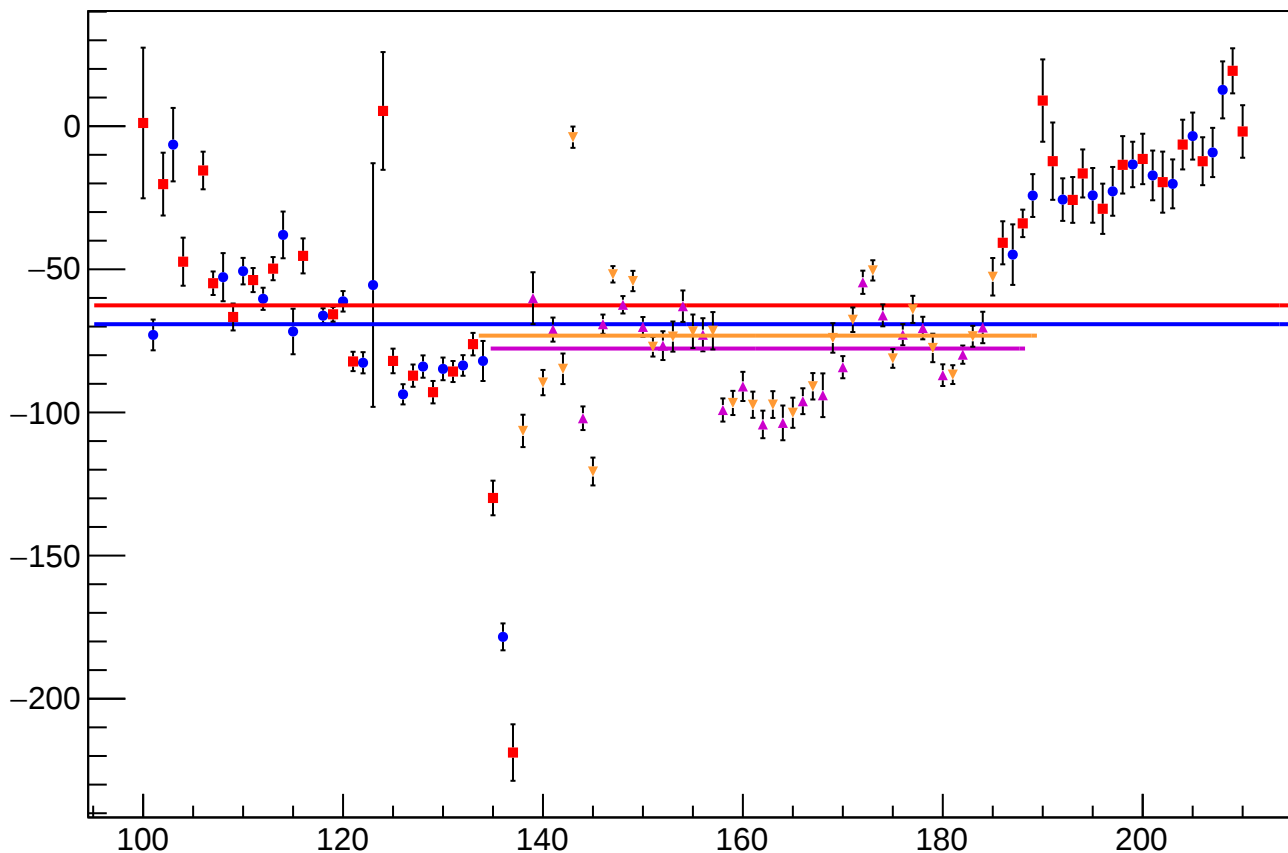
Right: -175.022 ± 0.738 χ^2/NDF : 6834.9/60

In: -164.604 ± 0.750 χ^2/NDF : 4306.8/50

Out: -165.409 ± 0.682 χ^2/NDF : 8000.0/57

All: -165.044 ± 0.505 χ^2/NDF : 12307.4/108

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.173 ± 0.999 $\chi^2/\text{NDF}: 1147.2/27$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -62.592 ± 0.953 $\chi^2/\text{NDF}: 1147.3/32$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

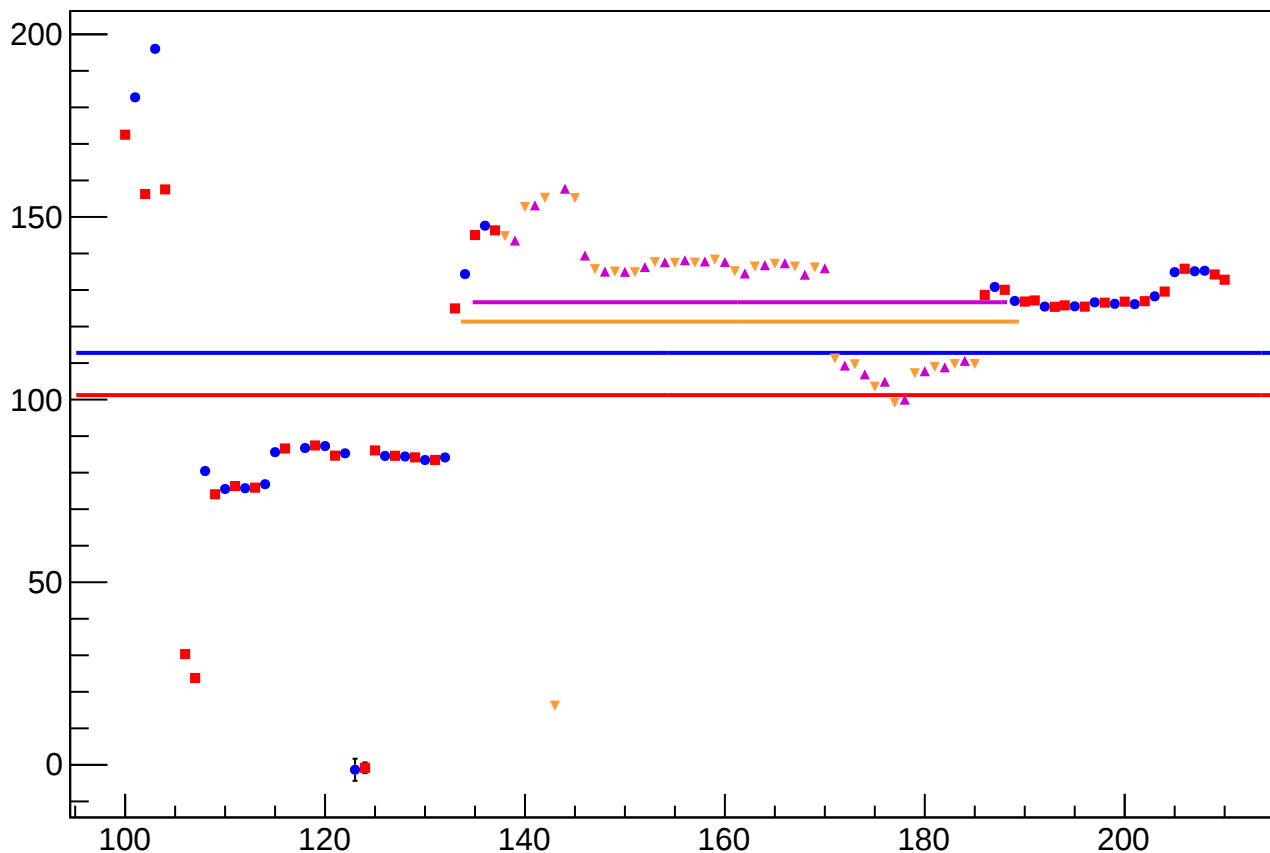
Right: -65.726 ± 0.689 $\chi^2/\text{NDF}: 2317.3/60$

In: -73.948 ± 0.662 $\chi^2/\text{NDF}: 1436.2/50$

Out: -68.470 ± 0.635 $\chi^2/\text{NDF}: 2004.4/57$

All: -71.096 ± 0.458 $\chi^2/\text{NDF}: 3476.3/108$

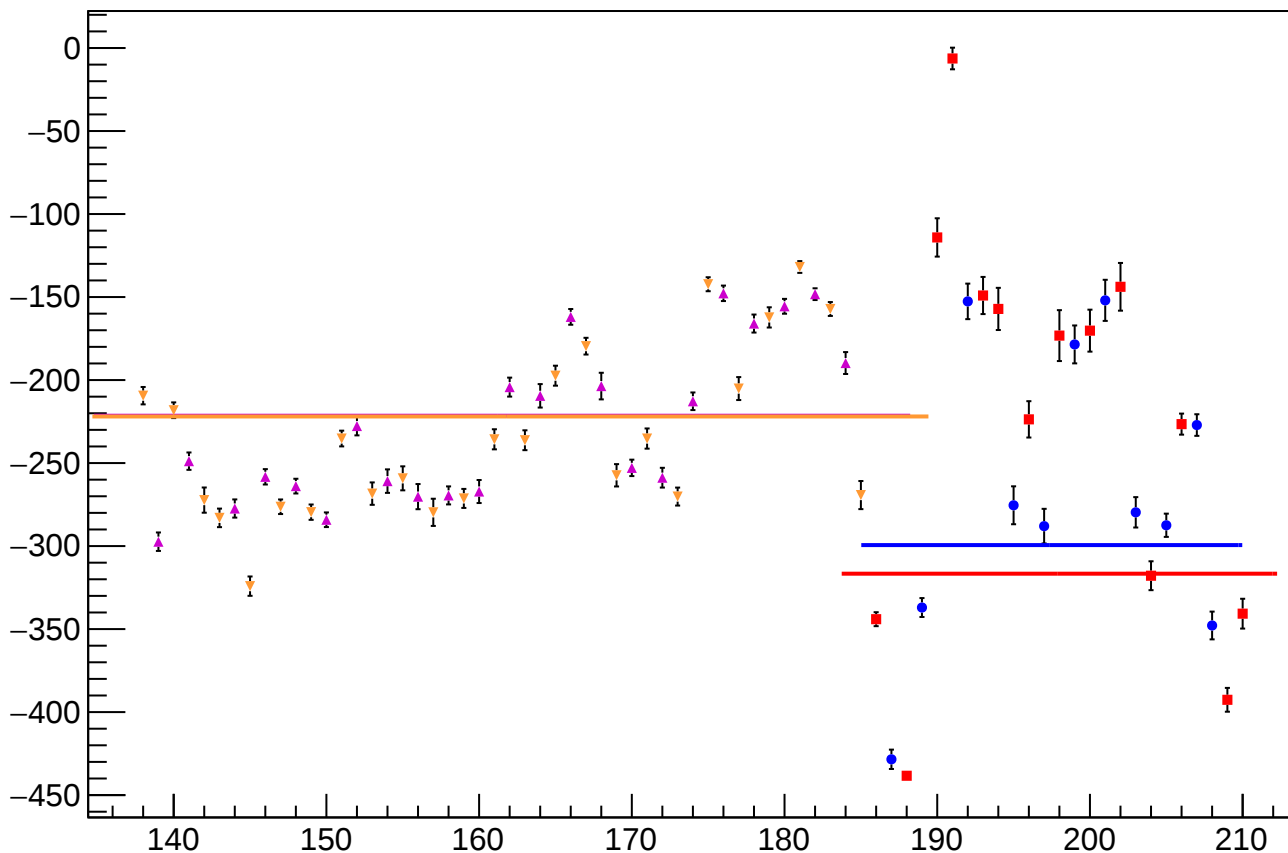
reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.794 $\pm$ 0.056 χ^2 /NDF: 318998.9/27
 Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24
 Right Out: 101.227 $\pm$ 0.050 χ^2 /NDF: 595275.6/32
 Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47
 Right: 106.416 $\pm$ 0.037 χ^2 /NDF: 937853.7/60
 In: 121.798 $\pm$ 0.033 χ^2 /NDF: 521925.8/50
 Out: 113.515 $\pm$ 0.031 χ^2 /NDF: 1174410.6/57
 All: 117.449 $\pm$ 0.023 χ^2 /NDF: 1729192.5/108

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -299.403 ± 2.423 $\chi^2/\text{NDF}: 1145.3/10$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -316.633 ± 1.814 $\chi^2/\text{NDF}: 5365.3/13$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

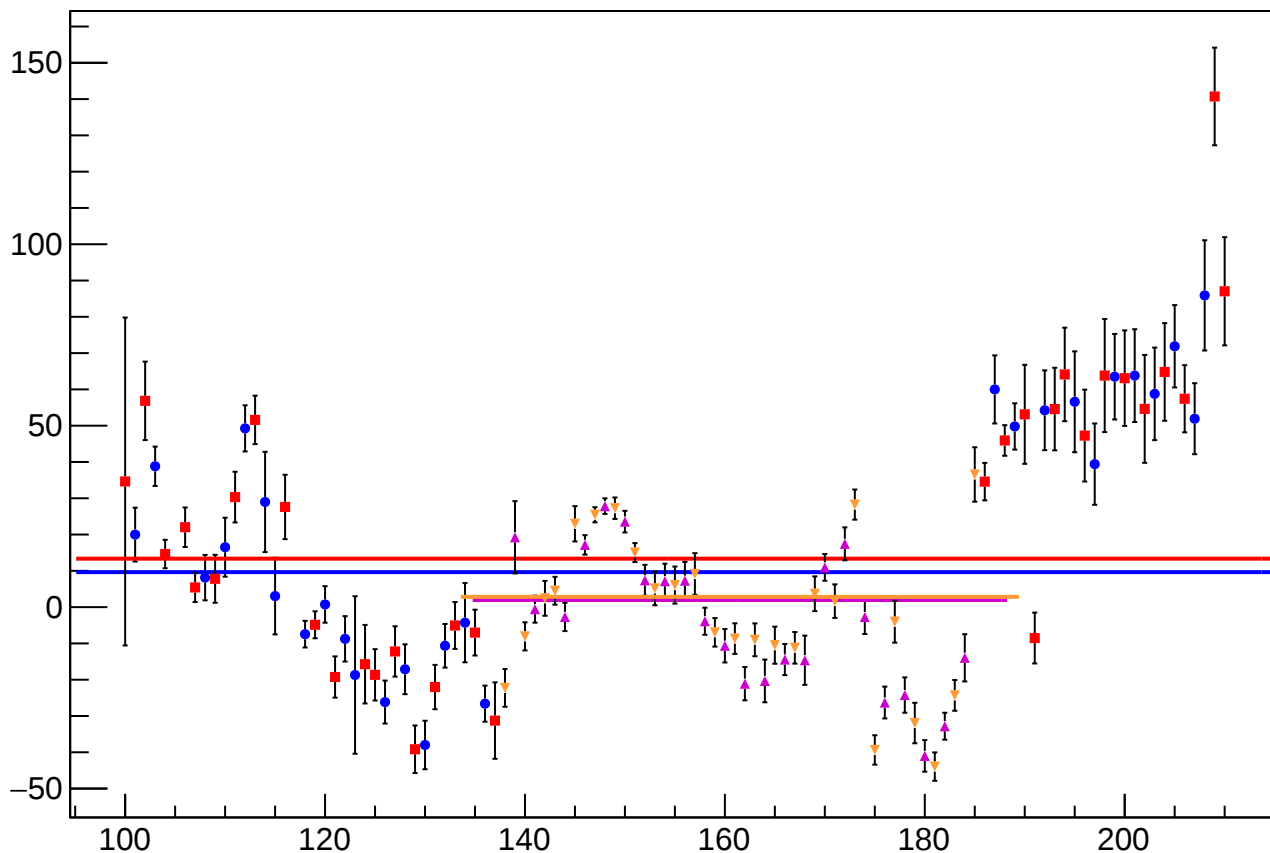
Right: -310.444 ± 1.452 $\chi^2/\text{NDF}: 6543.1/24$

In: -234.841 ± 1.003 $\chi^2/\text{NDF}: 4151.9/33$

Out: -246.864 ± 0.931 $\chi^2/\text{NDF}: 9951.2/38$

All: -241.303 ± 0.682 $\chi^2/\text{NDF}: 14180.3/72$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.643 ± 1.385 $\chi^2/\text{NDF}: 507.8/27$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 13.356 ± 1.203 $\chi^2/\text{NDF}: 612.2/32$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

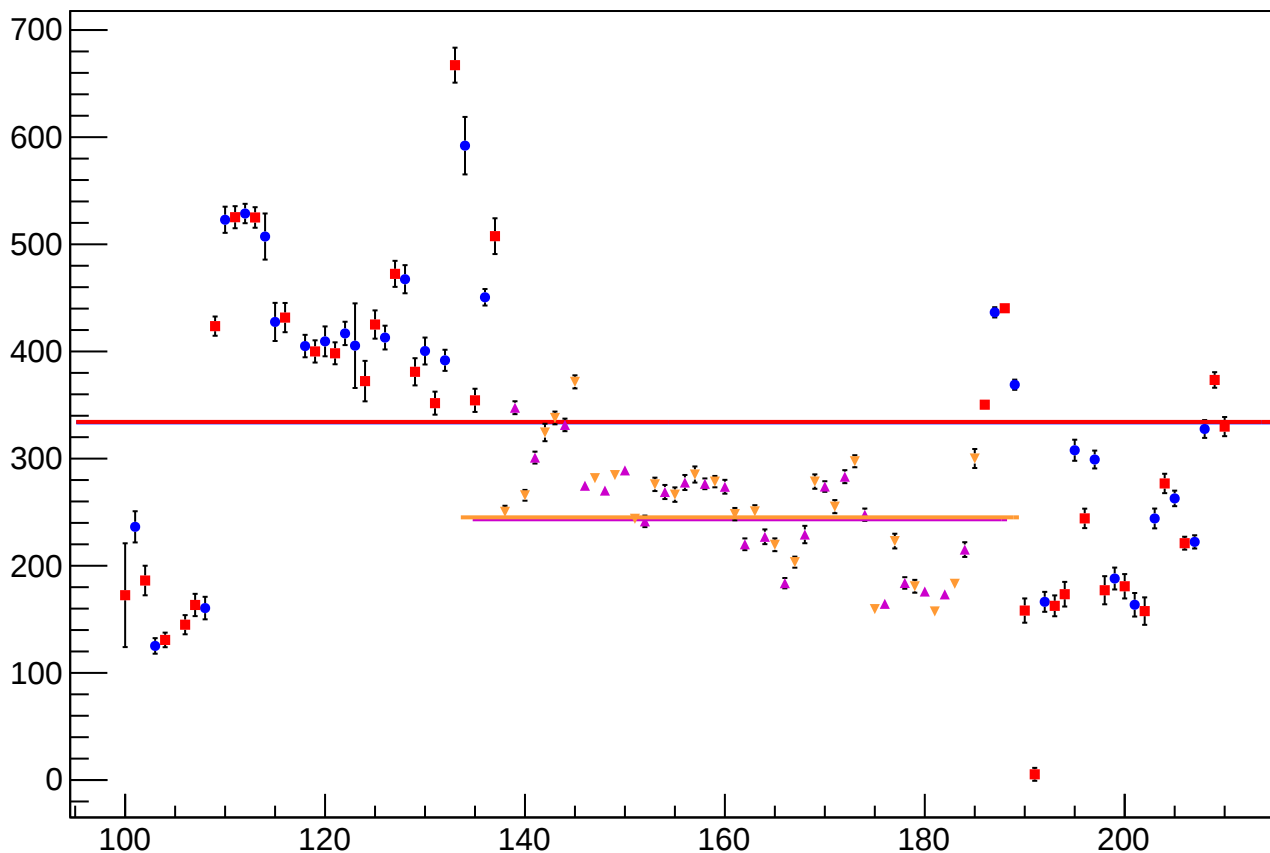
Right: 11.759 ± 0.908 $\chi^2/\text{NDF}: 1124.1/60$

In: 4.014 ± 0.715 $\chi^2/\text{NDF}: 1119.4/50$

Out: 6.097 ± 0.670 $\chi^2/\text{NDF}: 1351.9/57$

All: 5.123 ± 0.489 $\chi^2/\text{NDF}: 2475.8/108$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 333.840 ± 1.709 $\chi^2/\text{NDF}: 4436.8/27$

Left Out: 245.179 ± 1.082 $\chi^2/\text{NDF}: 2597.4/24$

Right Out: 334.257 ± 1.330 $\chi^2/\text{NDF}: 10097.4/32$

Left In: 243.366 ± 1.094 $\chi^2/\text{NDF}: 2236.7/22$

Left: 244.282 ± 0.769 $\chi^2/\text{NDF}: 4835.5/47$

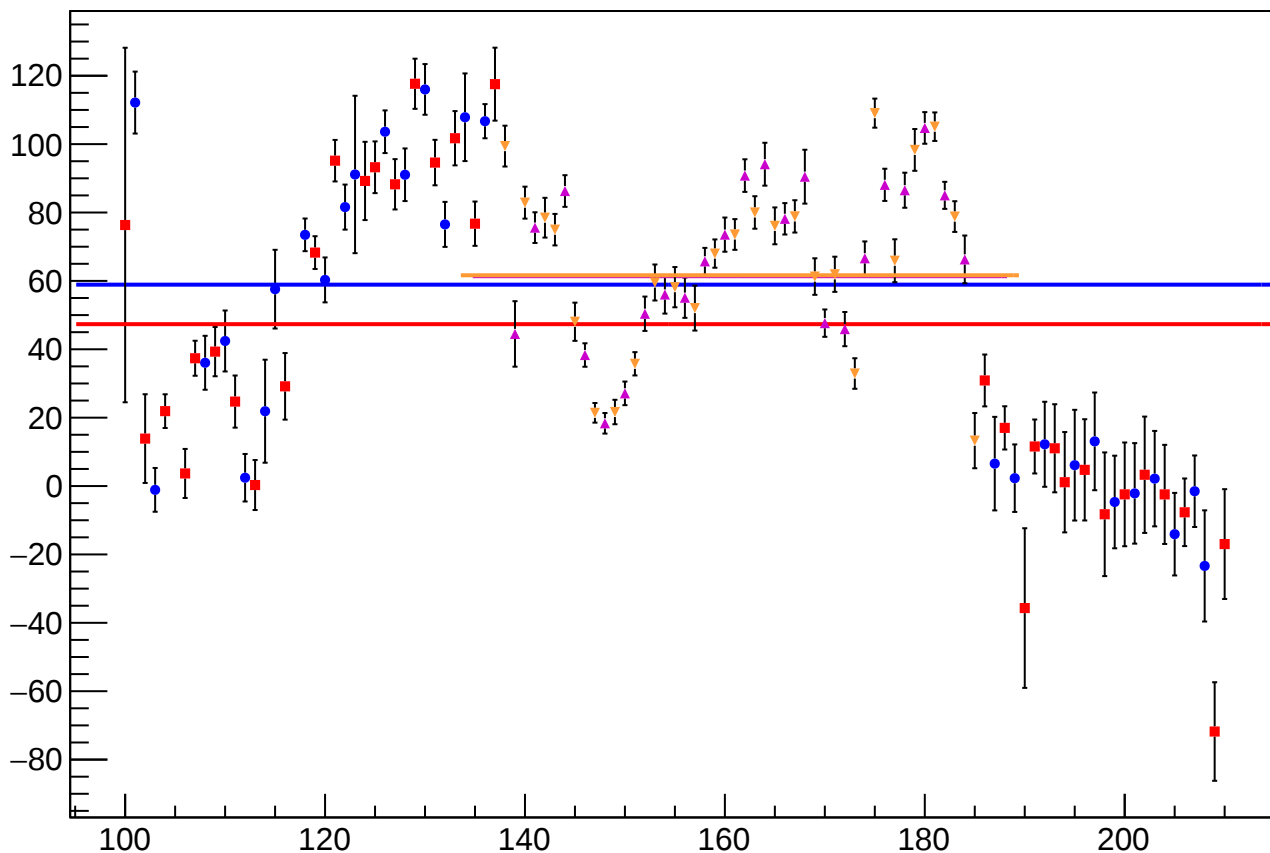
Right: 334.100 ± 1.050 $\chi^2/\text{NDF}: 14534.3/60$

In: 269.650 ± 0.921 $\chi^2/\text{NDF}: 8661.8/50$

Out: 280.651 ± 0.839 $\chi^2/\text{NDF}: 15393.7/57$

All: 275.661 ± 0.620 $\chi^2/\text{NDF}: 24133.4/108$

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 58.902 $\pm$ 1.610 χ^2 /NDF: 704.9/27

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 47.348 $\pm$ 1.436 χ^2 /NDF: 786.1/32

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

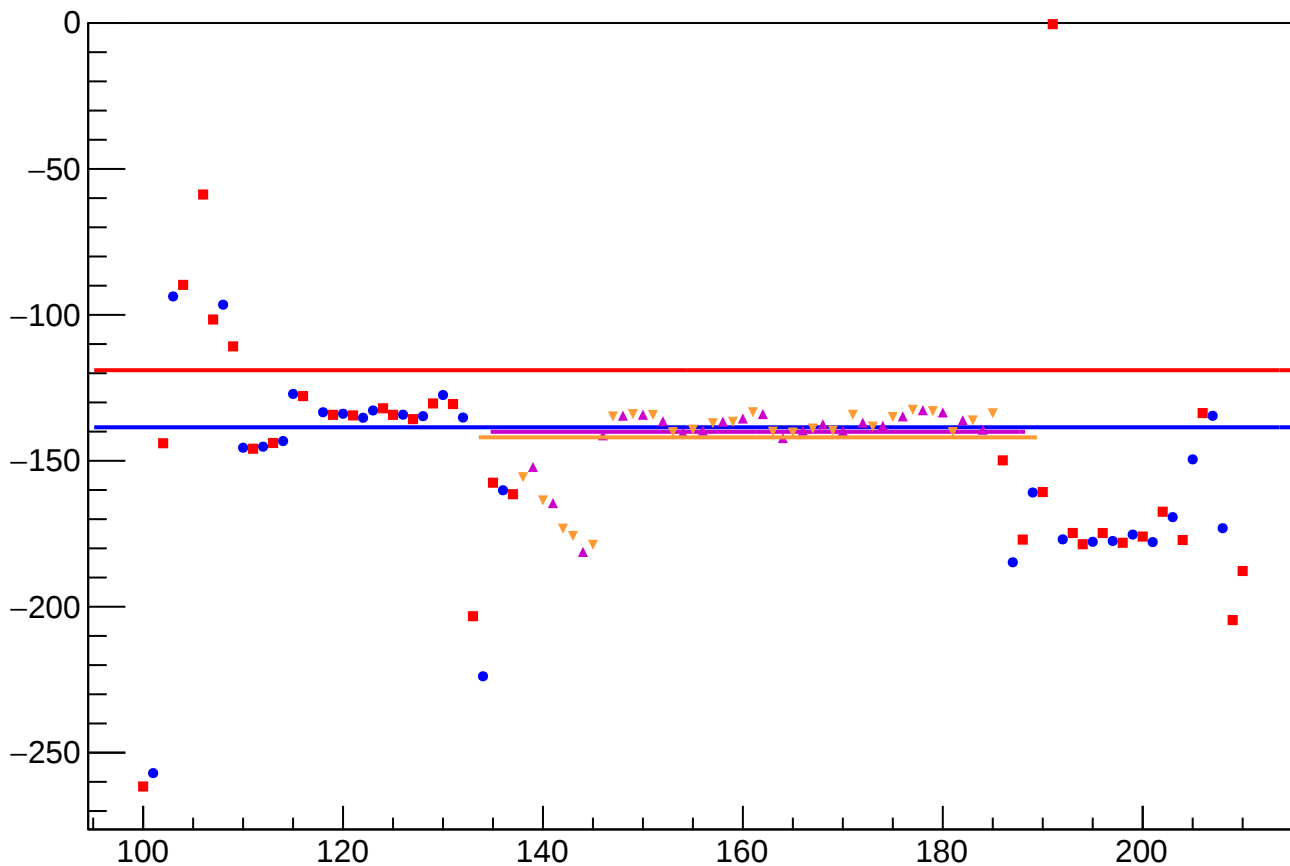
Right: 52.467 $\pm$ 1.072 χ^2 /NDF: 1519.6/60

In: 60.726 $\pm$ 0.825 χ^2 /NDF:1406.3/50

Out: 57.383 $\pm$ 0.784 χ^2 /NDF:1727.2/57

All: 58.969 $\pm$ 0.568 χ^2 /NDF: 3142.1/108

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.516+/-0.076 χ^2/NDF : 235858.2/27

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -118.964+/-0.067 χ^2/NDF : 634103.8/32

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

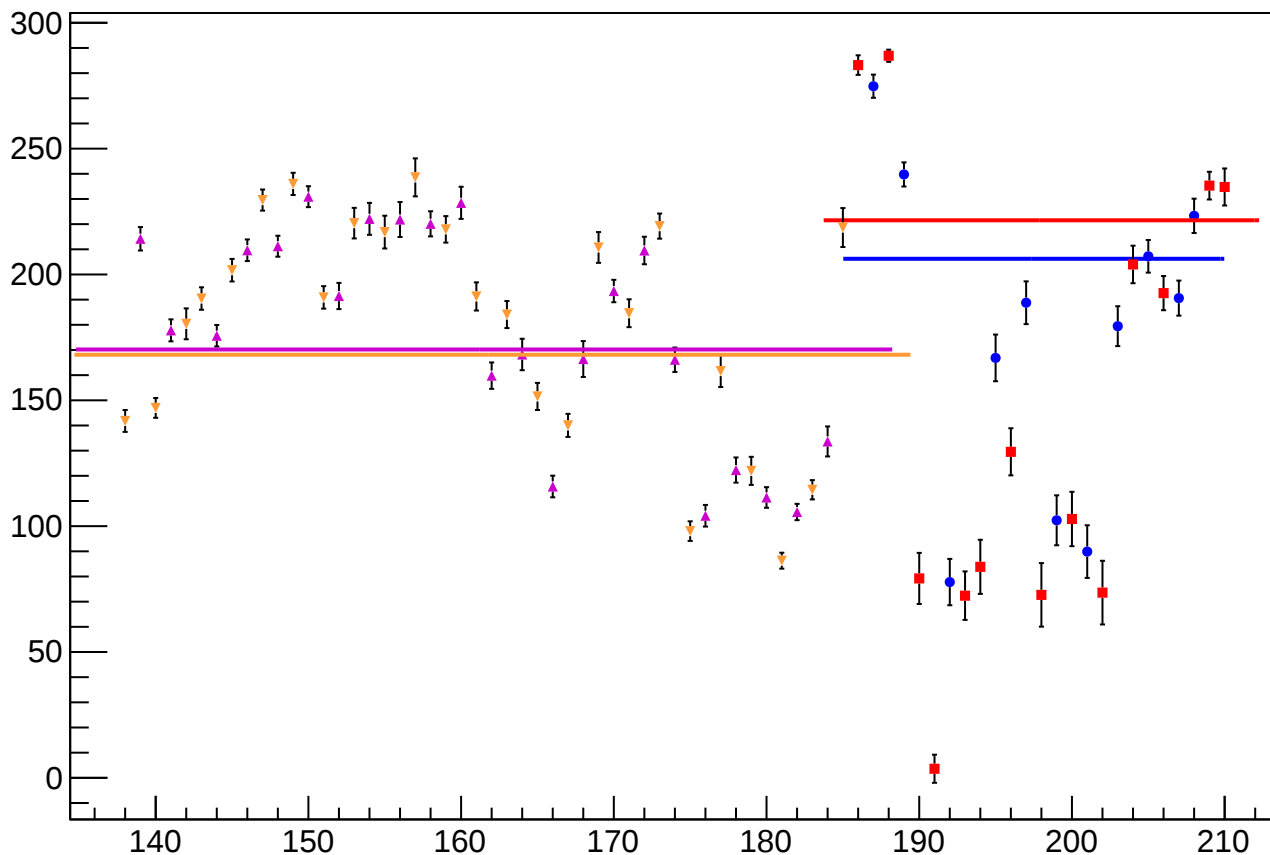
Right: -127.485+/-0.050 χ^2/NDF : 907255.7/60

In: -139.666+/-0.039 χ^2/NDF : 284197.5/50

Out: -134.860+/-0.037 χ^2/NDF : 796207.2/57

All: -137.163+/-0.027 χ^2/NDF : 1088423.1/100

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 206.235 $\pm$ 2.089 χ^2/NDF : 743.8/10

Left Out: 168.106 $\pm$ 0.970 χ^2/NDF :2468.8/24

Right Out: 221.529 $\pm$ 1.537 χ^2/NDF : 3636.8/13

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

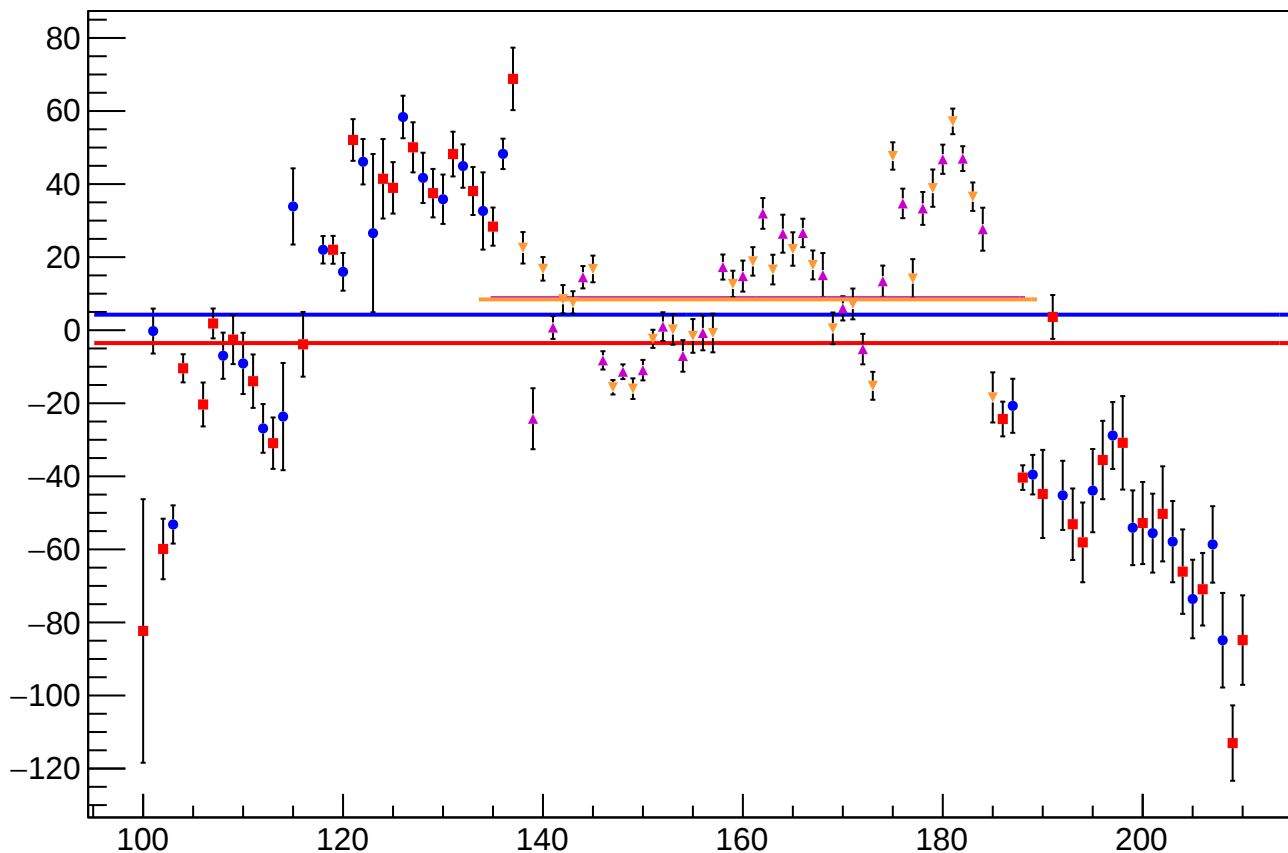
Right: 216.158 $\pm$ 1.238 χ^2/NDF : 4415.4/24

In: 176.864 $\pm$ 0.899 χ^2/NDF :3010.7/33

Out: 183.327 $\pm$ 0.820 χ^2/NDF :6969.4/38

All: 180.389 $\pm$ 0.606 χ^2/NDF : 10008.3/72

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.250 ± 1.318 $\chi^2/\text{NDF}: 903.9/27$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -3.517 ± 1.144 $\chi^2/\text{NDF}: 1074.1/32$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

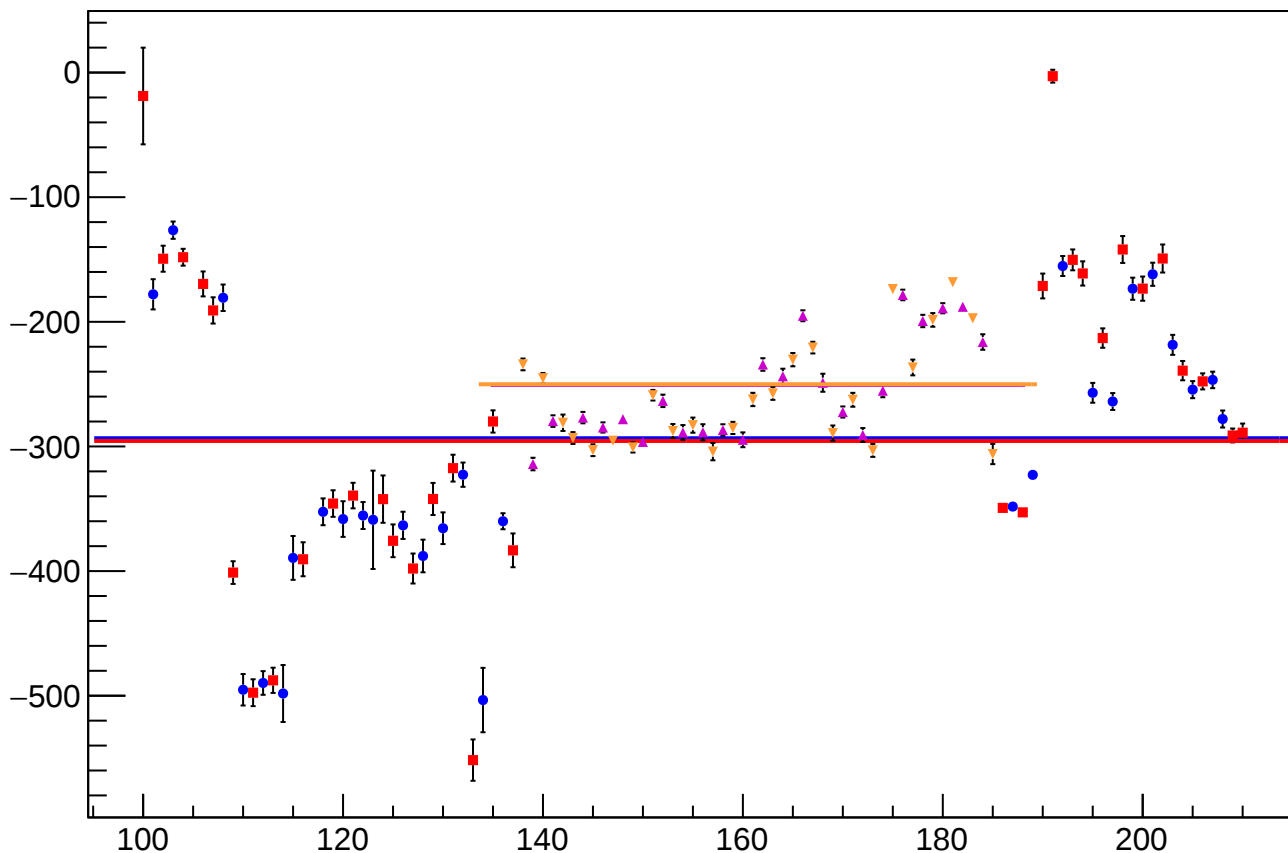
Right: -0.180 ± 0.864 $\chi^2/\text{NDF}: 1997.8/60$

In: 7.645 ± 0.657 $\chi^2/\text{NDF}: 1539.6/50$

Out: 4.989 ± 0.614 $\chi^2/\text{NDF}: 1903.9/57$

All: 6.227 ± 0.449 $\chi^2/\text{NDF}: 3452.2/108$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.422 ± 1.524 $\chi^2/\text{NDF}: 3131.1/27$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -295.595 ± 1.166 $\chi^2/\text{NDF}: 8111.4/32$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

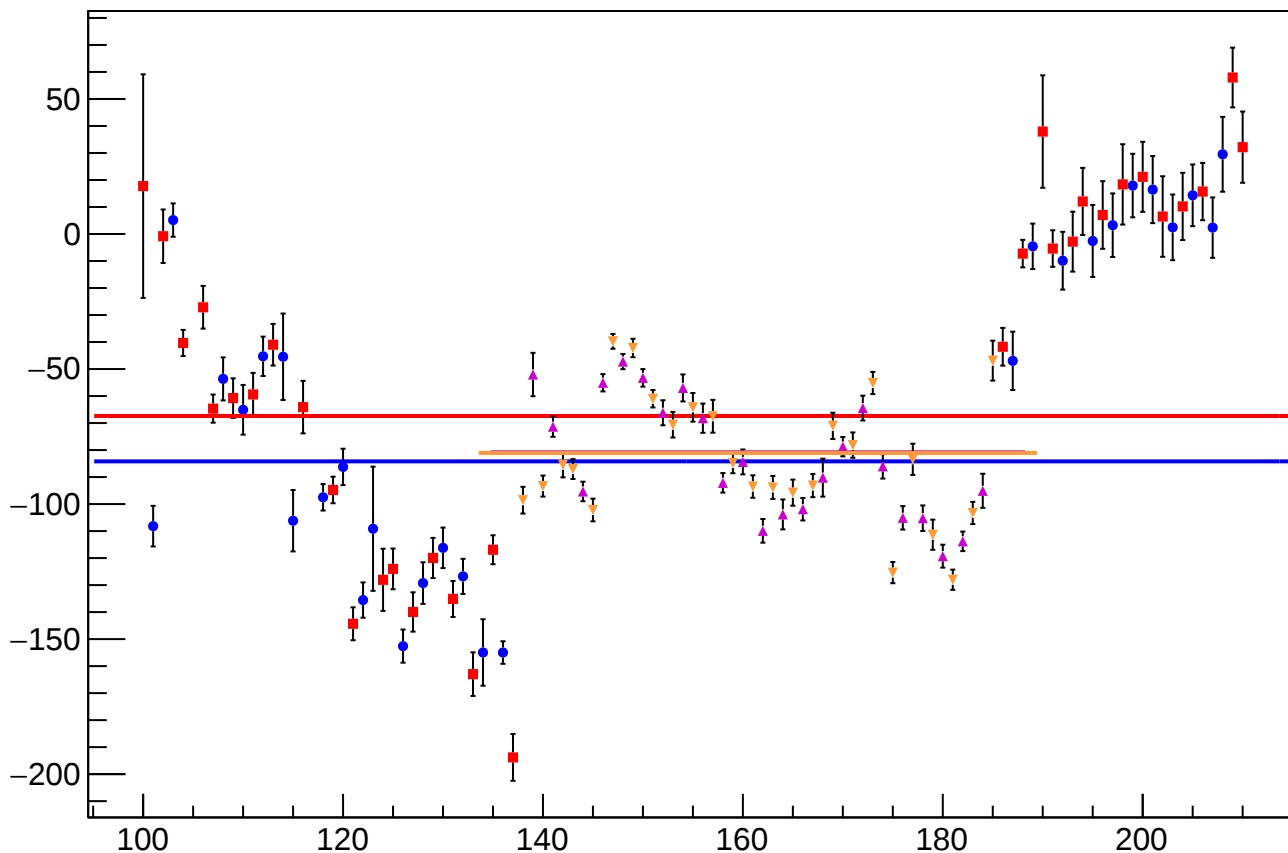
Right: -294.792 ± 0.926 $\chi^2/\text{NDF}: 11243.8/60$

In: -263.331 ± 0.830 $\chi^2/\text{NDF}: 5622.4/50$

Out: -268.768 ± 0.747 $\chi^2/\text{NDF}: 11255.4/57$

All: -266.337 ± 0.555 $\chi^2/\text{NDF}: 16901.5/108$

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.185 ± 1.533 $\chi^2/\text{NDF}: 1523.1/27$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -67.384 ± 1.369 $\chi^2/\text{NDF}: 1850.3/32$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

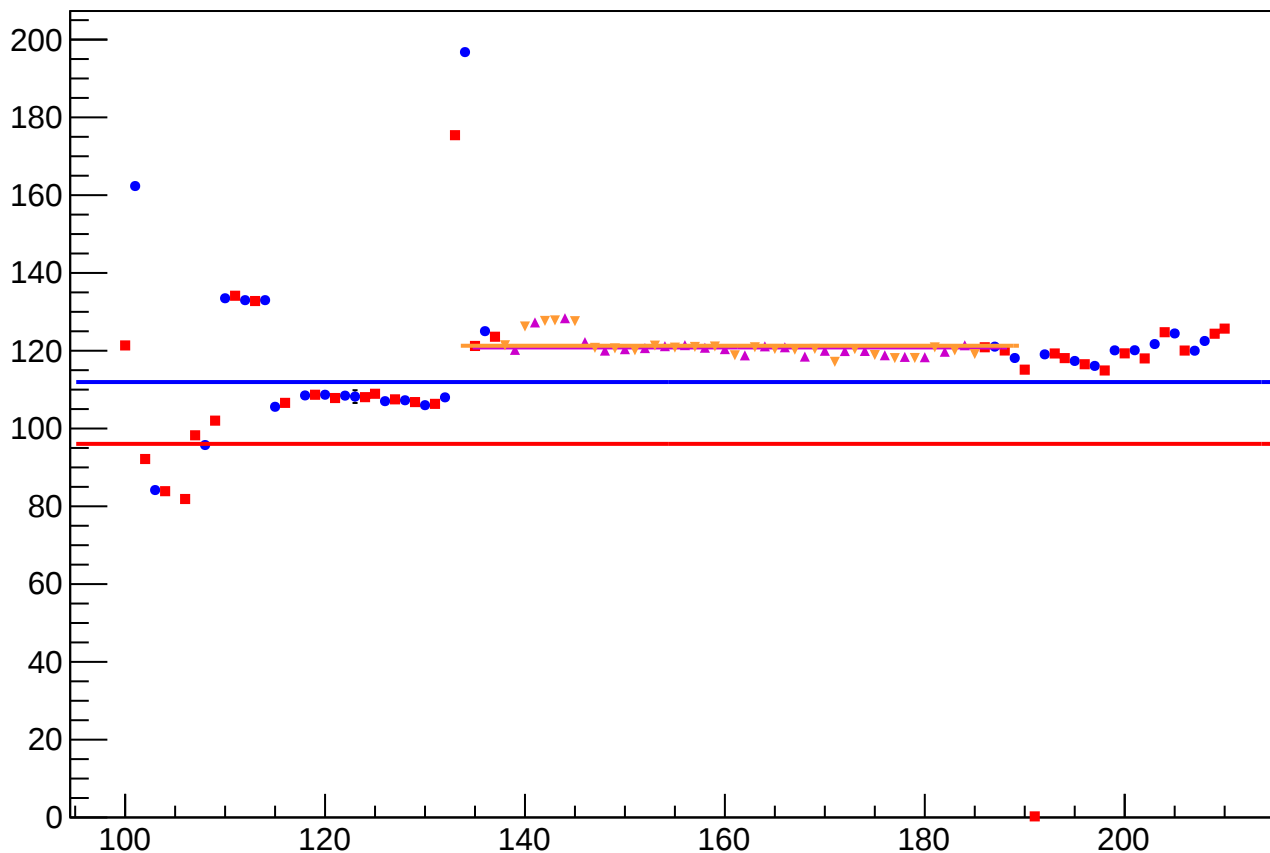
Right: -74.840 ± 1.021 $\chi^2/\text{NDF}: 3440.2/60$

In: -81.652 ± 0.758 $\chi^2/\text{NDF}: 2219.9/50$

Out: -77.300 ± 0.718 $\chi^2/\text{NDF}: 2835.6/57$

All: -79.358 ± 0.521 $\chi^2/\text{NDF}: 5072.9/108$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.948 $\pm$ 0.071 χ^2 /NDF: 78937.9/27

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.053 $\pm$ 0.062 χ^2 /NDF: 369034.8/32

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

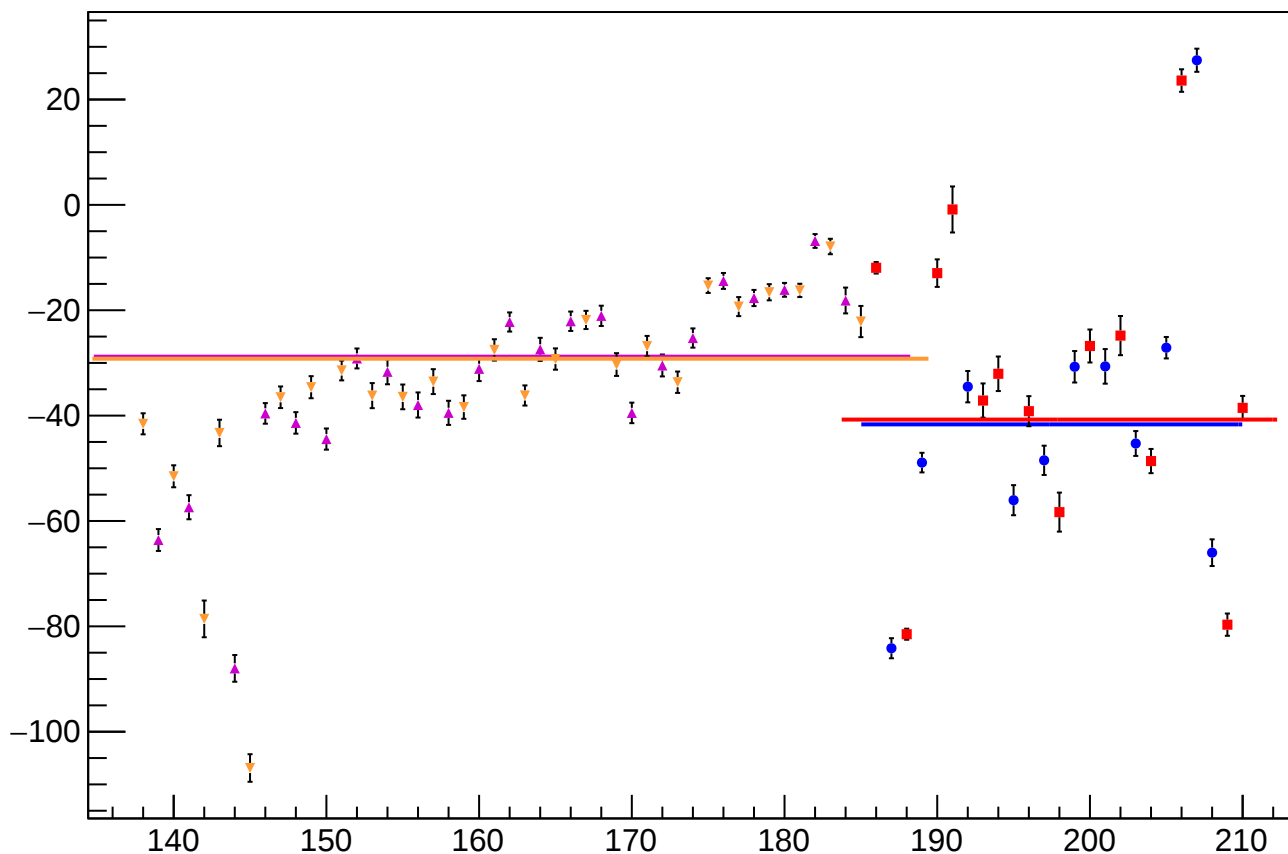
Right: 102.937 $\pm$ 0.046 χ^2 /NDF: 476727.5/60

In: 118.624 $\pm$ 0.035 χ^2 /NDF: 94225.3/50

Out: 113.788 $\pm$ 0.034 χ^2 /NDF: 491561.2/57

All: 116.091 $\pm$ 0.024 χ^2 /NDF: 595640.5/108

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.663 ± 0.722 $\chi^2/\text{NDF}: 1709.8/10$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -40.752 ± 0.549 $\chi^2/\text{NDF}: 3720.3/13$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

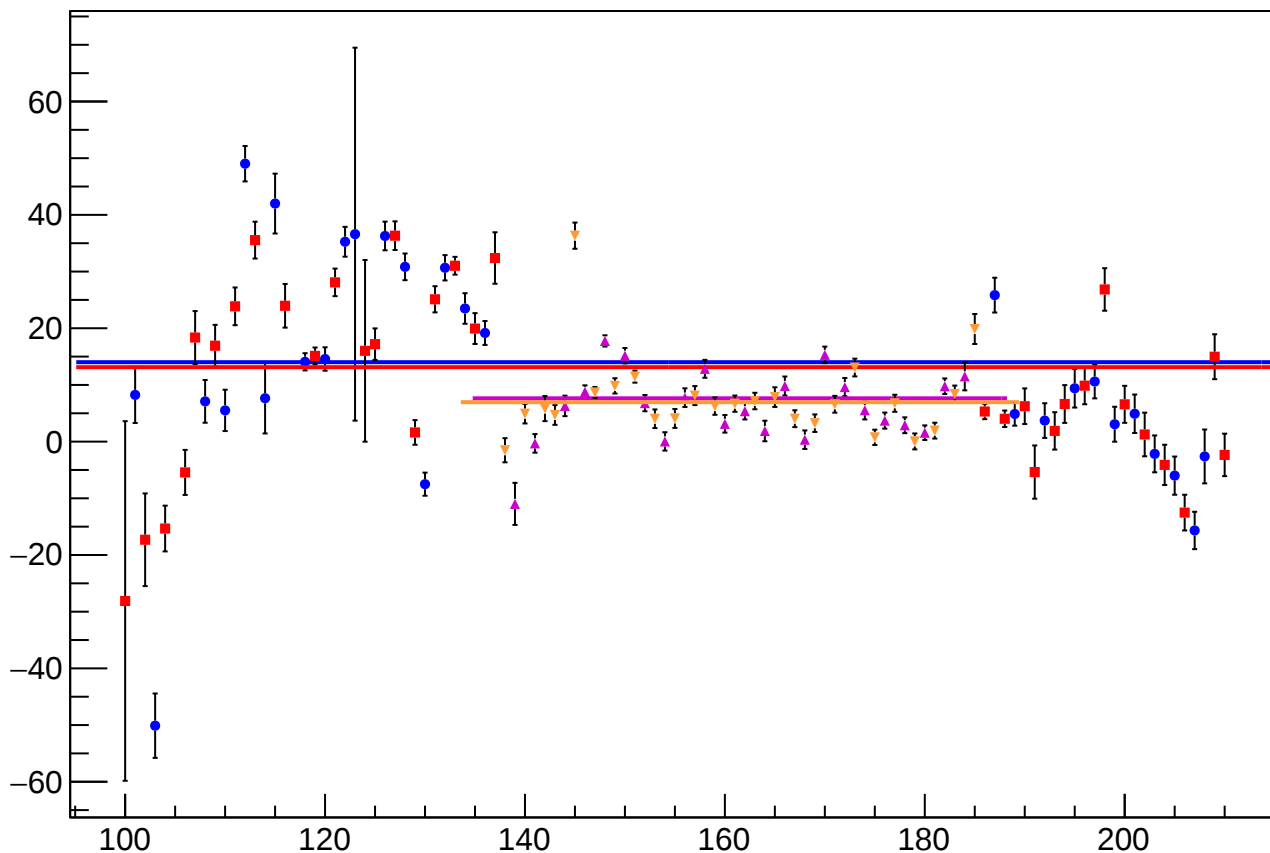
Right: -41.086 ± 0.437 $\chi^2/\text{NDF}: 5431.1/24$

In: -31.775 ± 0.347 $\chi^2/\text{NDF}: 3717.5/33$

Out: -33.057 ± 0.317 $\chi^2/\text{NDF}: 5897.0/38$

All: -32.473 ± 0.234 $\chi^2/\text{NDF}: 9621.9/72$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.012 ± 0.535 χ^2/NDF : 894.7/27

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 13.133 ± 0.476 χ^2/NDF : 734.4/32

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

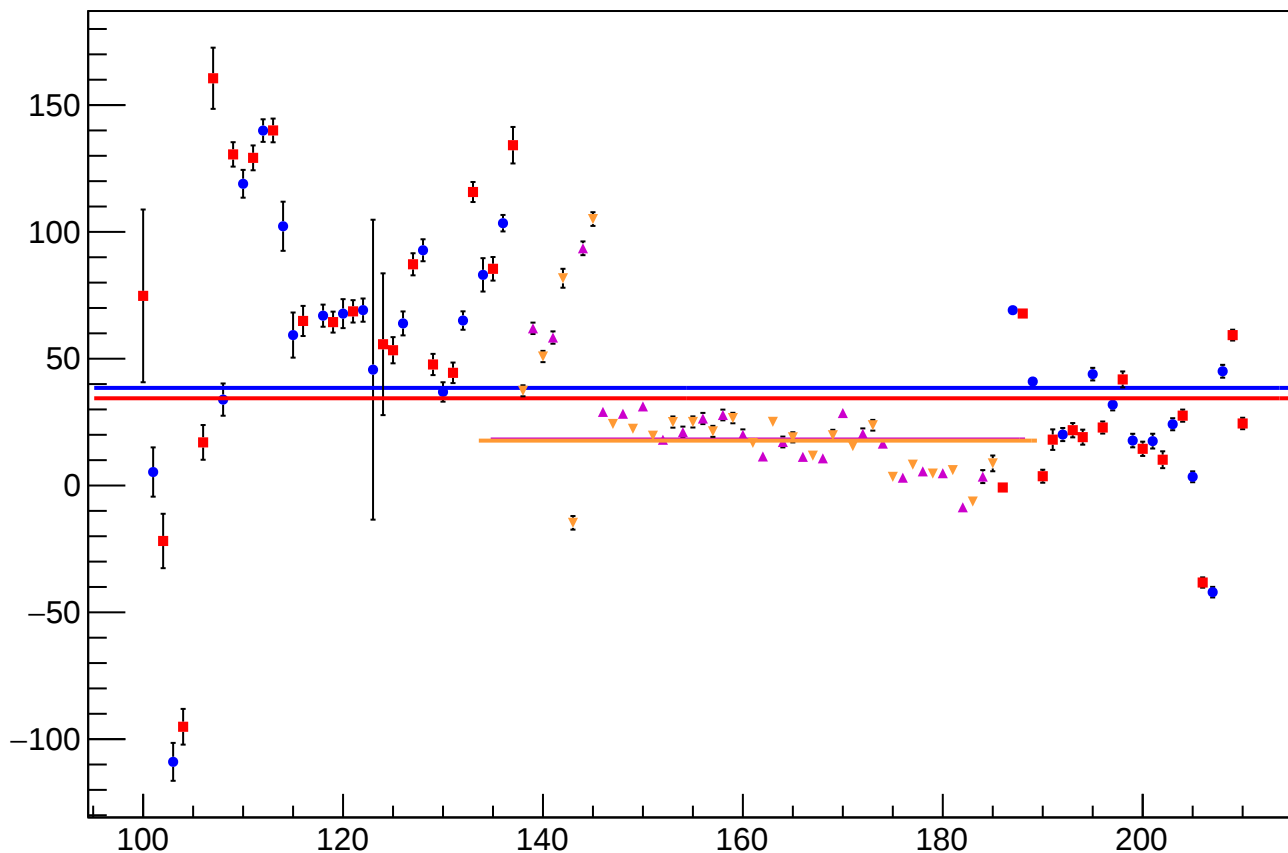
Right: 13.522 ± 0.356 χ^2/NDF : 1630.6/60

In: 9.269 ± 0.270 χ^2/NDF : 1338.1/50

Out: 8.738 ± 0.256 χ^2/NDF : 1175.3/57

All: 8.989 ± 0.186 χ^2/NDF : 2515.5/108

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 38.489 $\pm$ 0.576 χ^2 /NDF: 4341.4/27

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 34.396 $\pm$ 0.441 χ^2 /NDF: 7767.9/32

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

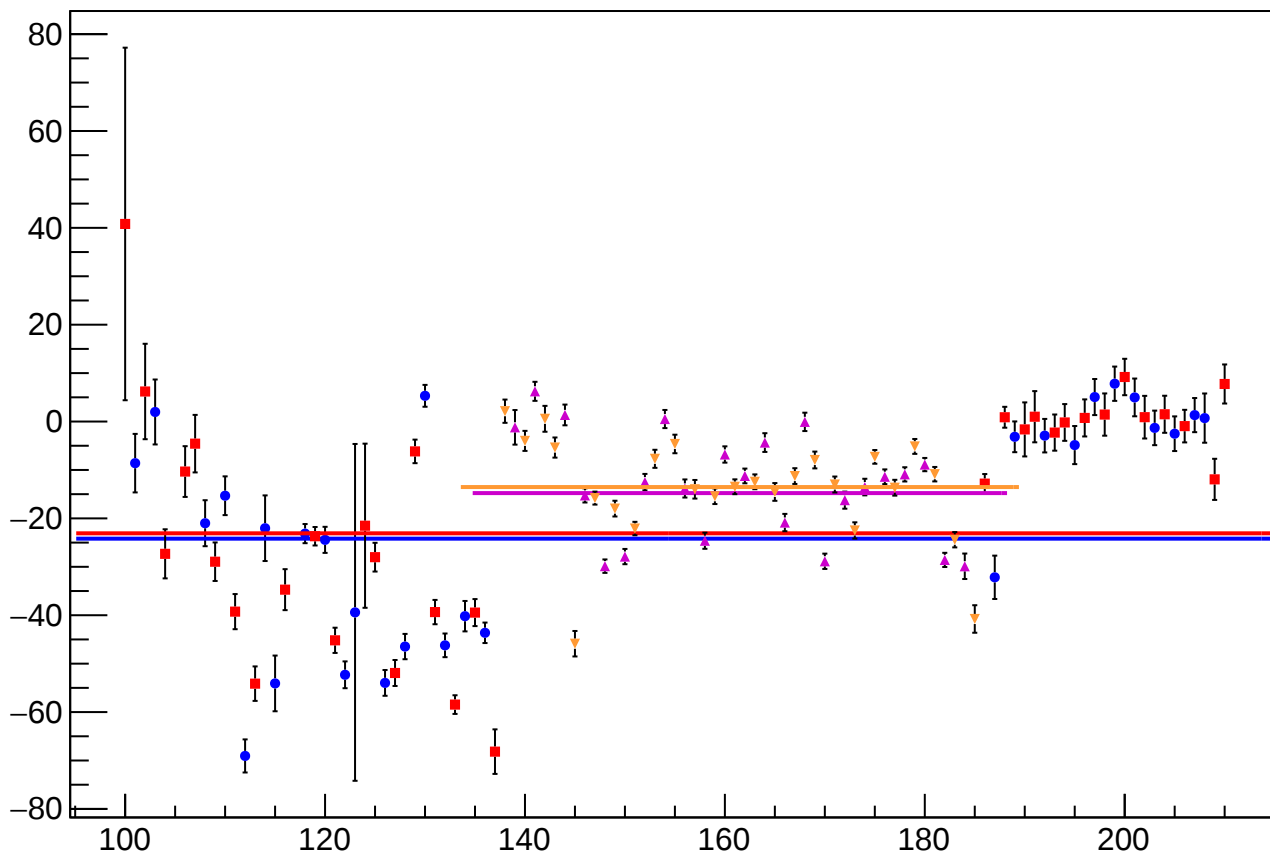
Right: 35.907 $\pm$ 0.350 χ^2 /NDF: 12141.1/60

In: 24.597 $\pm$ 0.324 χ^2 /NDF:7531.5/50

Out: 24.971 $\pm$ 0.291 χ^2 /NDF:11008.9/57

All: 24.804 $\pm$ 0.217 χ^2 /NDF: 18541.2/108

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.186 ± 0.622 $\chi^2/\text{NDF}: 1353.6/27$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -23.084 ± 0.574 $\chi^2/\text{NDF}: 1459.6/32$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

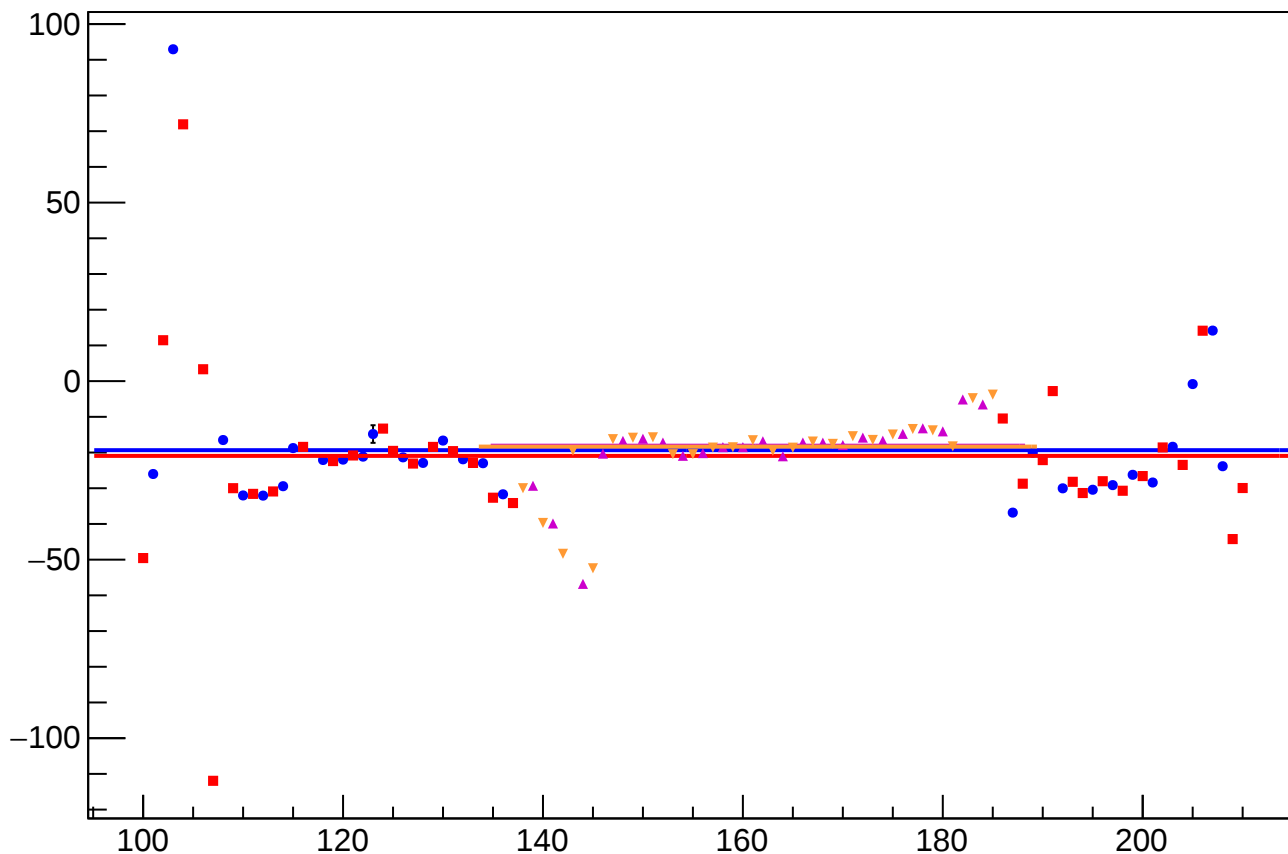
Right: -23.591 ± 0.422 $\chi^2/\text{NDF}: 2814.9/60$

In: -17.082 ± 0.308 $\chi^2/\text{NDF}: 2364.5/50$

Out: -16.056 ± 0.295 $\chi^2/\text{NDF}: 2236.2/57$

All: -16.548 ± 0.213 $\chi^2/\text{NDF}: 4606.5/108$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.340 ± 0.030 $\chi^2/\text{NDF}: 595233.2/27$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -20.938 ± 0.028 $\chi^2/\text{NDF}: 578097.0/32$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

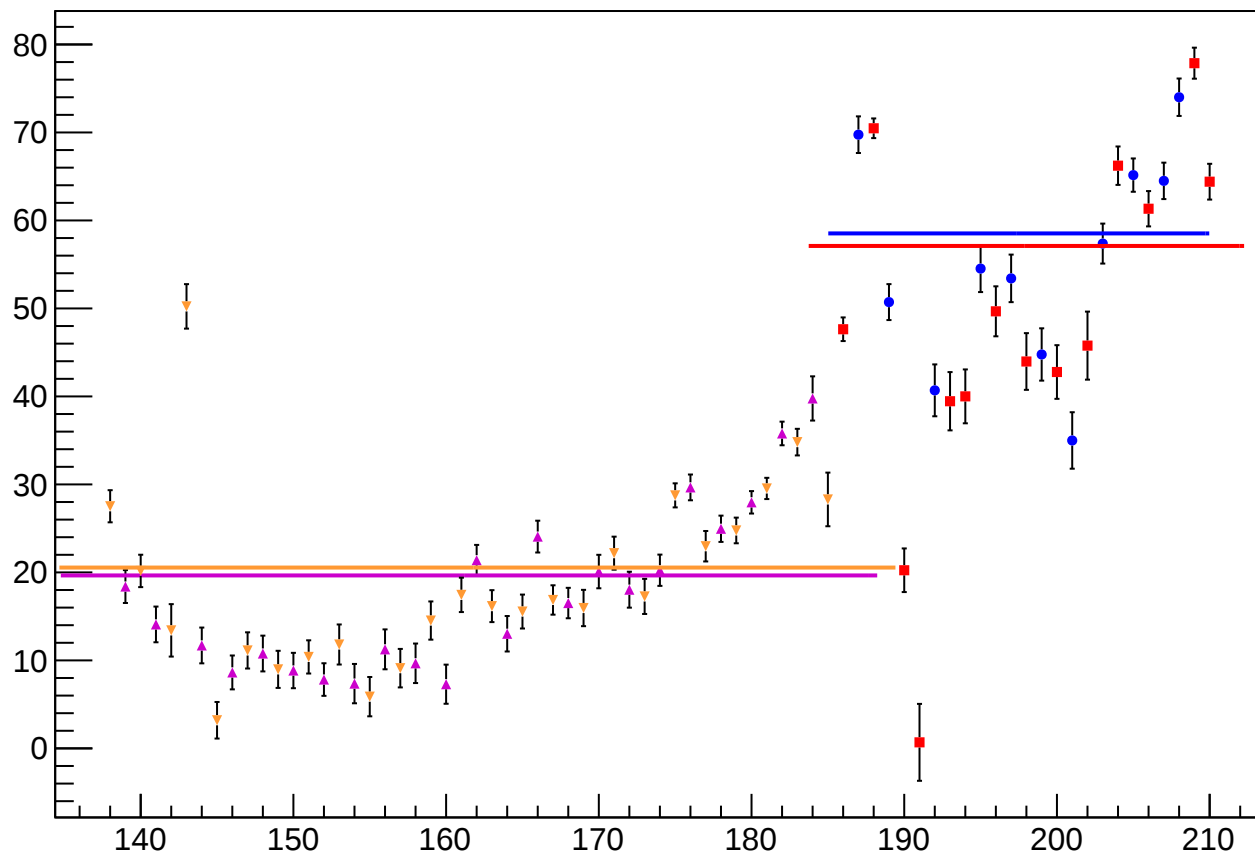
Right: -20.190 ± 0.020 $\chi^2/\text{NDF}: 1174873.5/60$

In: -18.369 ± 0.014 $\chi^2/\text{NDF}: 838570.3/50$

Out: -18.972 ± 0.014 $\chi^2/\text{NDF}: 868865.7/57$

All: -18.679 ± 0.010 $\chi^2/\text{NDF}: 1708369.4/108$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 58.526 $\pm$ 0.707 χ^2 /NDF: 235.0/10

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 57.102 $\pm$ 0.560 χ^2 /NDF: 867.5/13

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

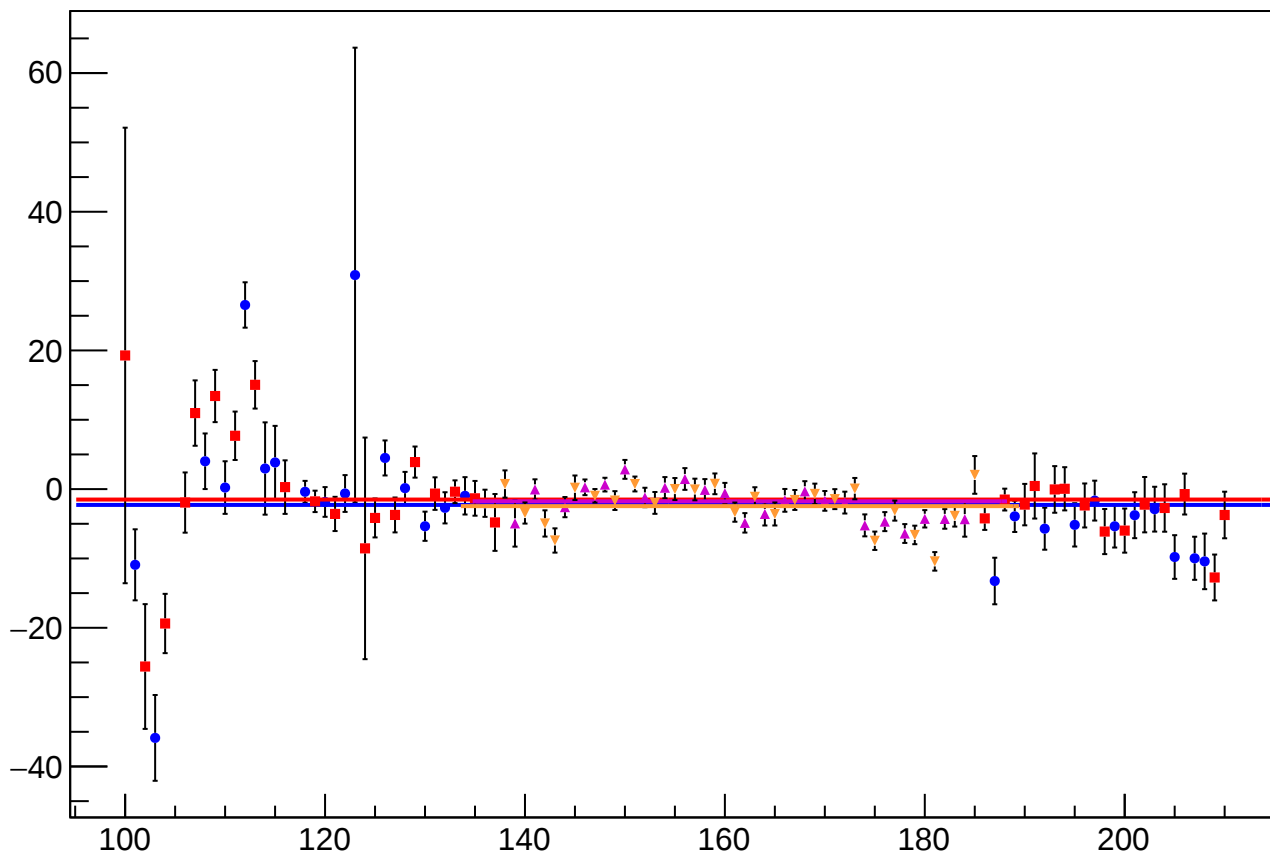
Right: 57.652 $\pm$ 0.439 χ^2 /NDF: 1105.0/24

In: 28.382 $\pm$ 0.335 χ^2 /NDF:3150.7/33

Out: 31.772 $\pm$ 0.311 χ^2 /NDF:4441.1/38

All: 30.205 $\pm$ 0.228 χ^2 /NDF: 7646.9/72

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.278 ± 0.538 $\chi^2/\text{NDF}: 159.0/27$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.506 ± 0.490 $\chi^2/\text{NDF}: 107.6/32$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

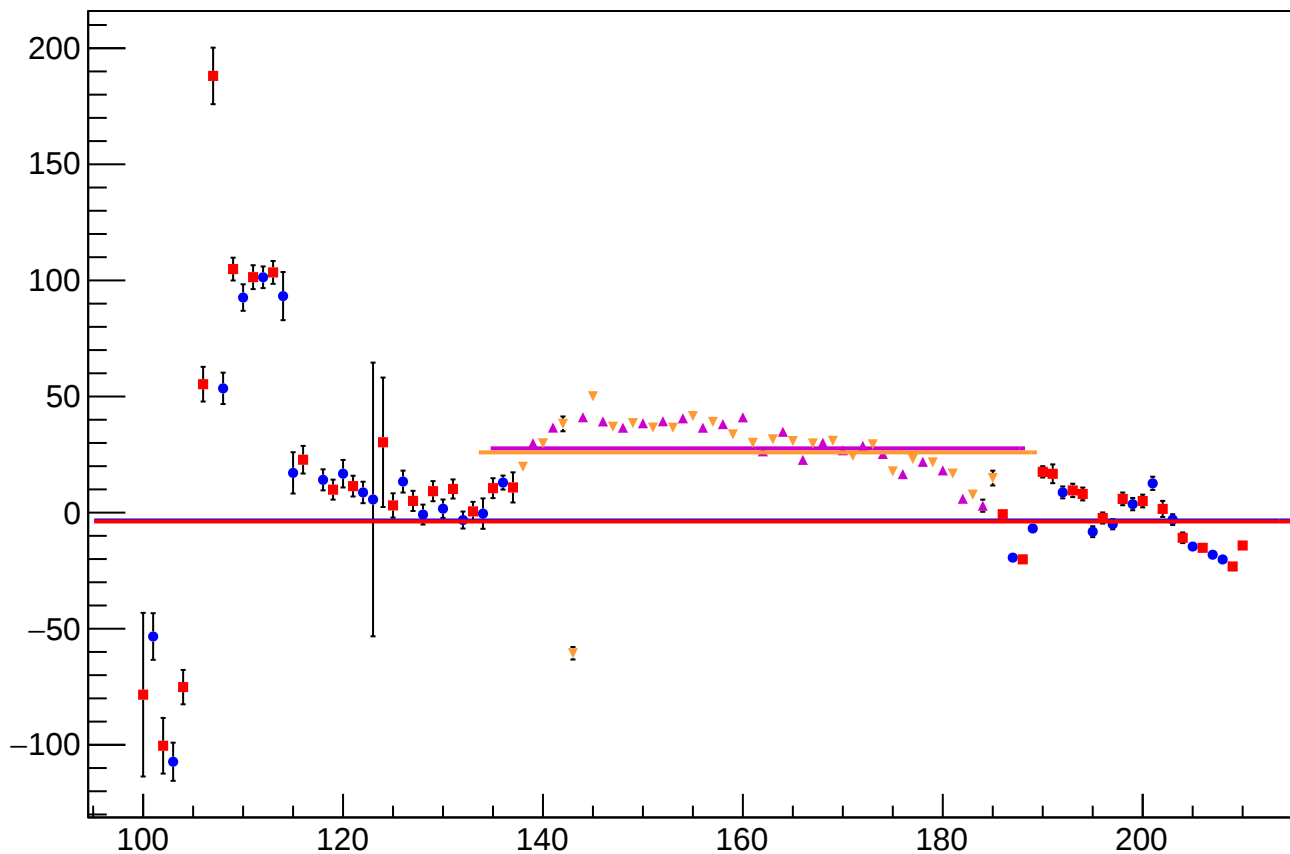
Right: -1.856 ± 0.362 $\chi^2/\text{NDF}: 267.7/60$

In: -1.883 ± 0.263 $\chi^2/\text{NDF}: 227.1/50$

Out: -2.206 ± 0.251 $\chi^2/\text{NDF}: 216.3/57$

All: -2.052 ± 0.182 $\chi^2/\text{NDF}: 444.2/108$

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.391 ± 0.574 χ^2/NDF : 1519.5/27

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -3.821 ± 0.458 χ^2/NDF : 2637.6/32

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

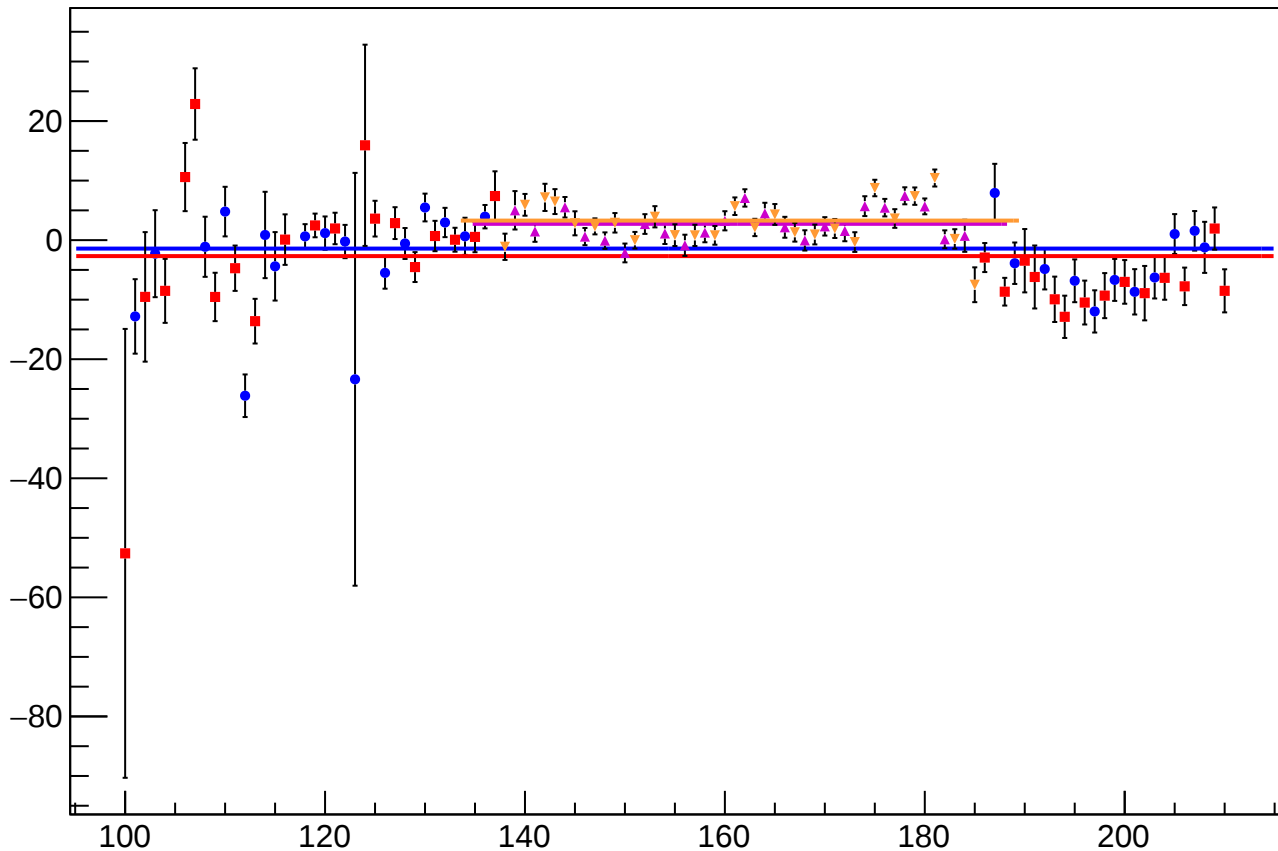
Right: -3.654 ± 0.358 χ^2/NDF : 4157.5/60

In: 18.274 ± 0.316 χ^2/NDF : 4365.5/50

Out: 14.091 ± 0.289 χ^2/NDF : 6892.2/57

All: 15.996 ± 0.213 χ^2/NDF : 11353.2/108

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.418 ± 0.621 χ^2/NDF : 103.7/27

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.681 ± 0.583 χ^2/NDF : 107.9/32

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

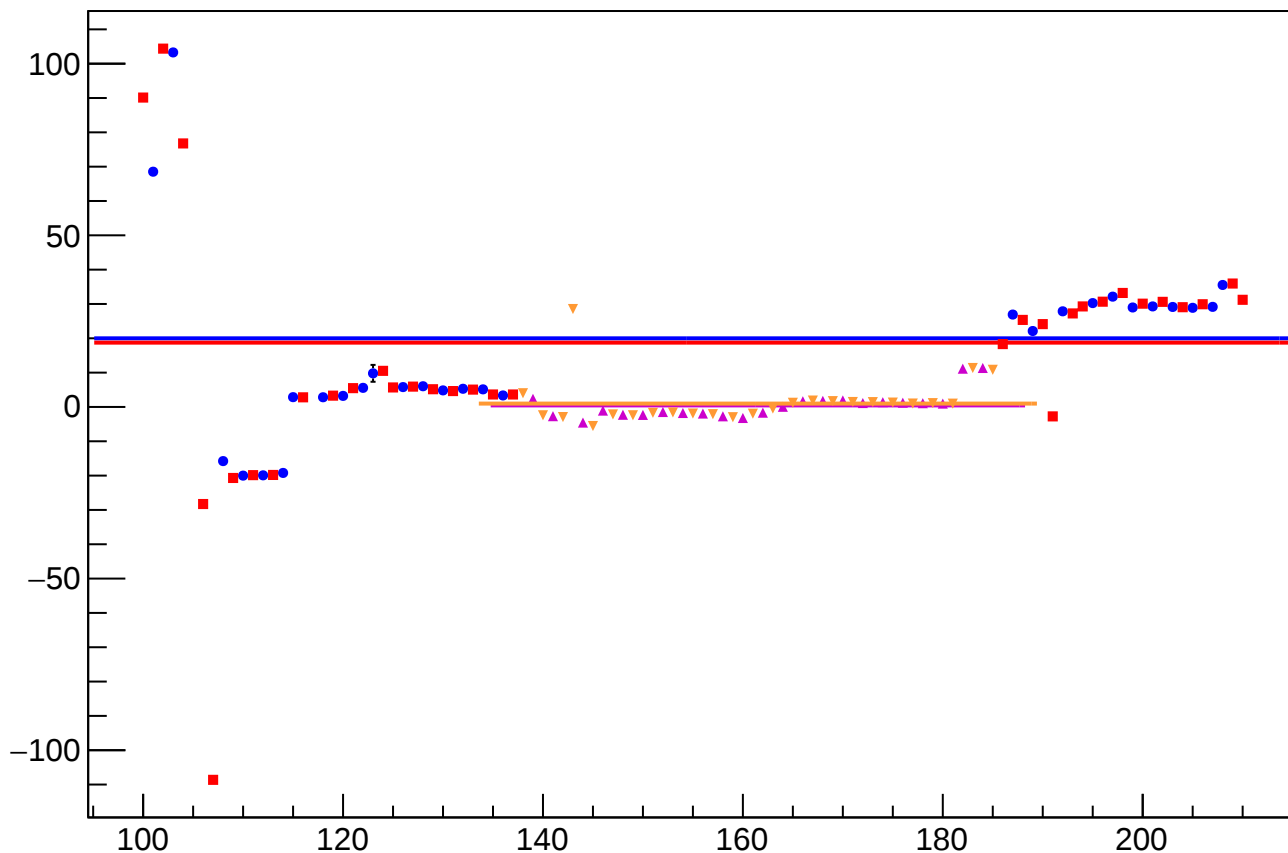
Right: -2.090 ± 0.425 χ^2/NDF : 213.8/60

In: 1.774 ± 0.299 χ^2/NDF : 202.6/50

Out: 1.825 ± 0.288 χ^2/NDF : 289.3/57

All: 1.800 ± 0.207 χ^2/NDF : 492.0/108

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 19.990+/-0.029 χ^2/NDF : 496057.8/27

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 18.738+/-0.027 χ^2/NDF : 740393.0/32

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

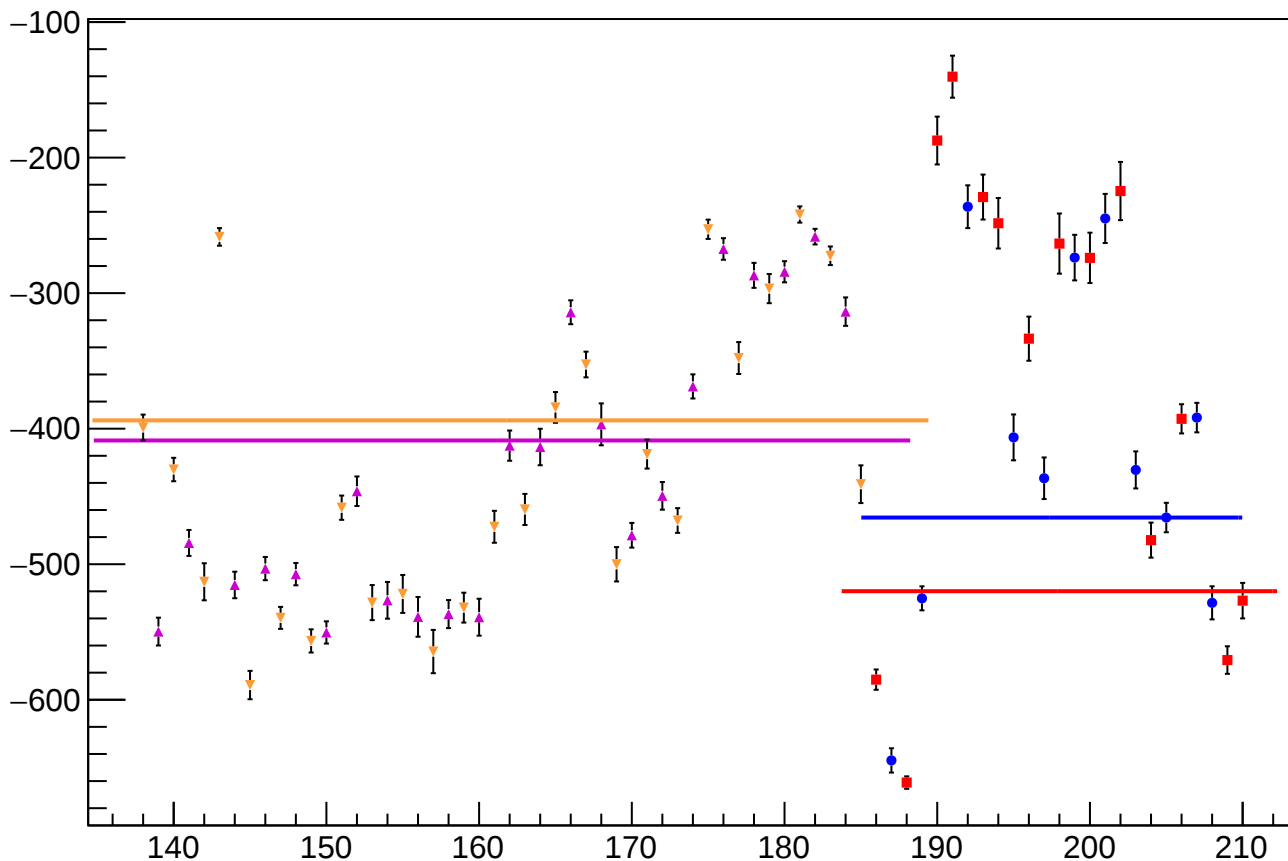
Right: 19.327+/-0.020 χ^2/NDF : 1237428.1/60

In: 4.729+/-0.014 χ^2/NDF : 897762.8/50

Out: 5.135+/-0.013 χ^2/NDF : 1177584.1/57

All: 4.937+/-0.010 χ^2/NDF : 2075800.7/108

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -465.571+/-3.716 χ^2/NDF : 1028.8/10

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -519.894+/-2.886 χ^2/NDF : 3296.8/13

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

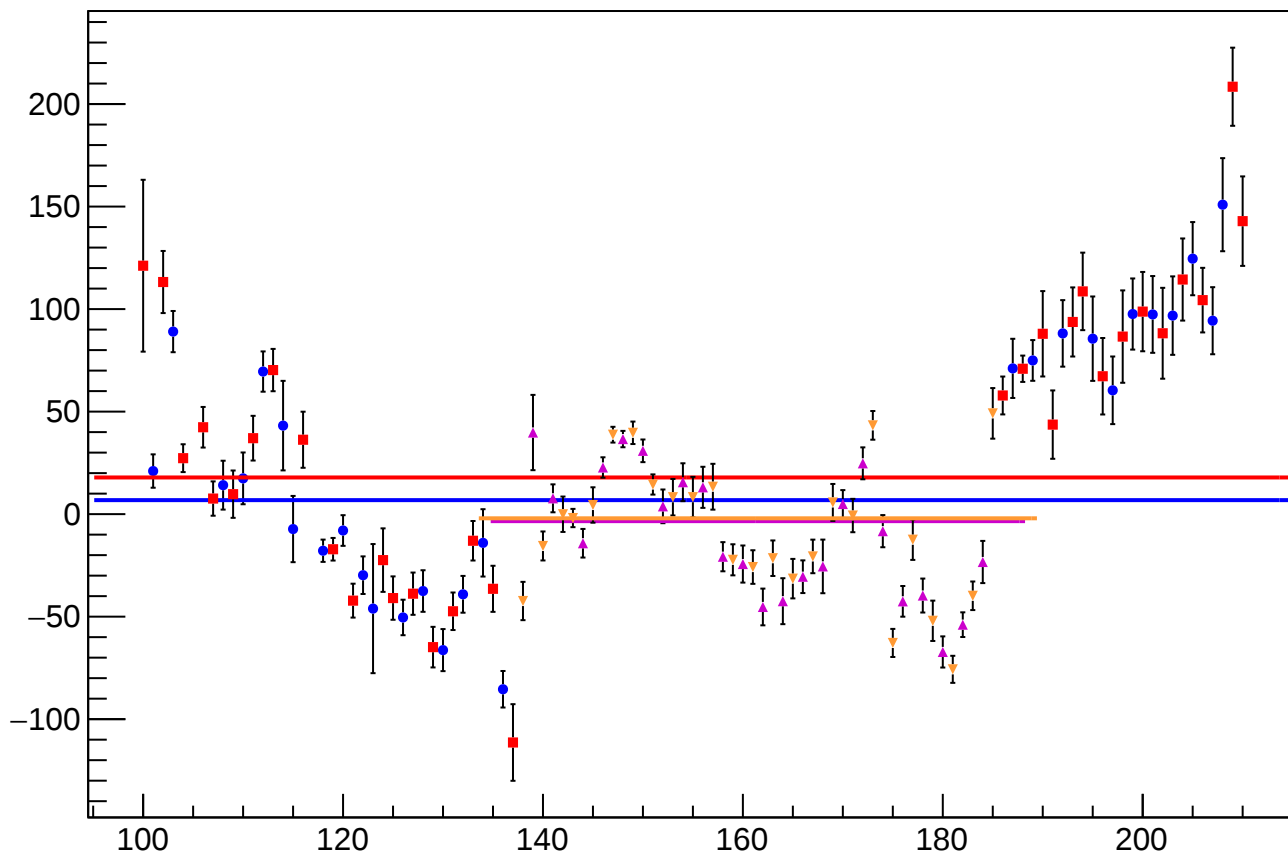
Right: -499.450+/-2.279 χ^2/NDF : 4459.0/24

In: -421.265+/-1.747 χ^2/NDF : 4274.2/33

Out: -431.888+/-1.585 χ^2/NDF : 8400.9/38

All: -427.090+/-1.174 χ^2/NDF : 12695.4/72

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.827 ± 2.117 $\chi^2/\text{NDF}: 710.0/27$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 17.881 ± 1.944 $\chi^2/\text{NDF}: 823.8/32$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

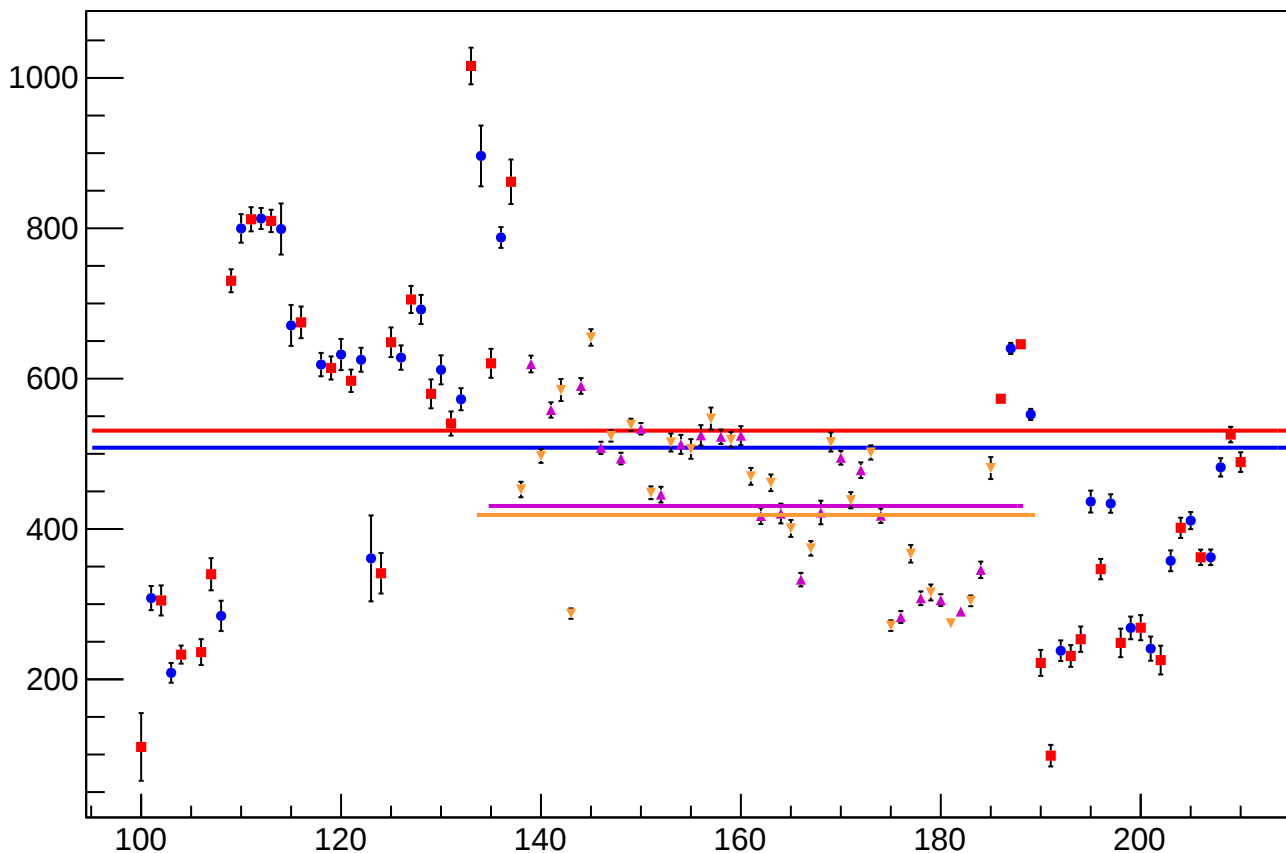
Right: 12.825 ± 1.432 $\chi^2/\text{NDF}: 1548.6/60$

In: 0.066 ± 1.235 $\chi^2/\text{NDF}: 1176.4/50$

Out: 4.921 ± 1.149 $\chi^2/\text{NDF}: 1455.9/57$

All: 2.668 ± 0.841 $\chi^2/\text{NDF}: 2640.6/108$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.131 $\pm$ 2.643 χ^2 /NDF: 4188.2/27

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 530.829 $\pm$ 2.127 χ^2 /NDF: 7087.8/32

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

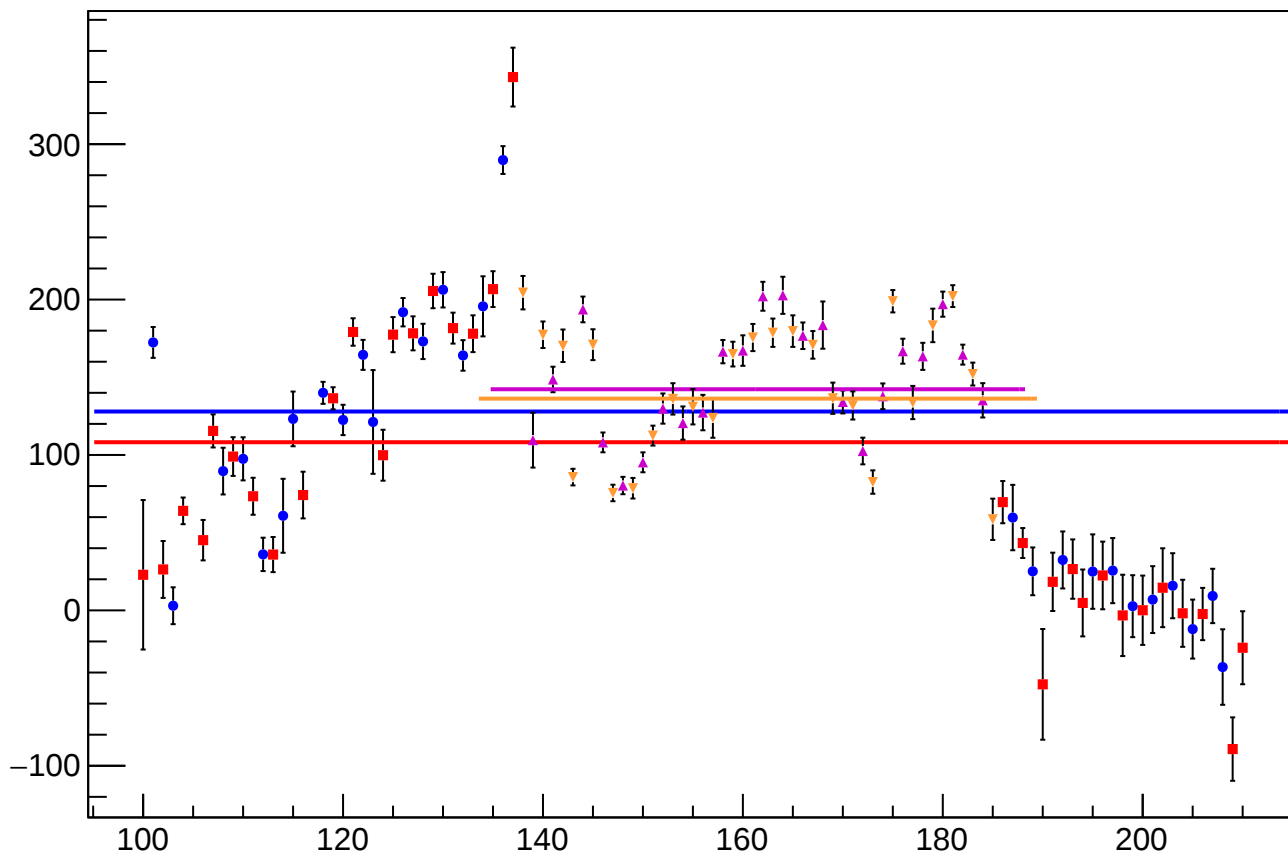
Right: 521.906 $\pm$ 1.657 χ^2 /NDF: 11320.7/60

In: 458.333 $\pm$ 1.580 χ^2 /NDF:7591.3/50

Out: 468.596 $\pm$ 1.419 χ^2 /NDF:11927.1/57

All: 464.013 $\pm$ 1.056 χ^2 /NDF: 19541.7/108

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 127.962 $\pm$ 2.471 χ^2 /NDF: 1077.3/27

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 108.204 $\pm$ 2.310 χ^2 /NDF: 1083.1/32

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF: 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

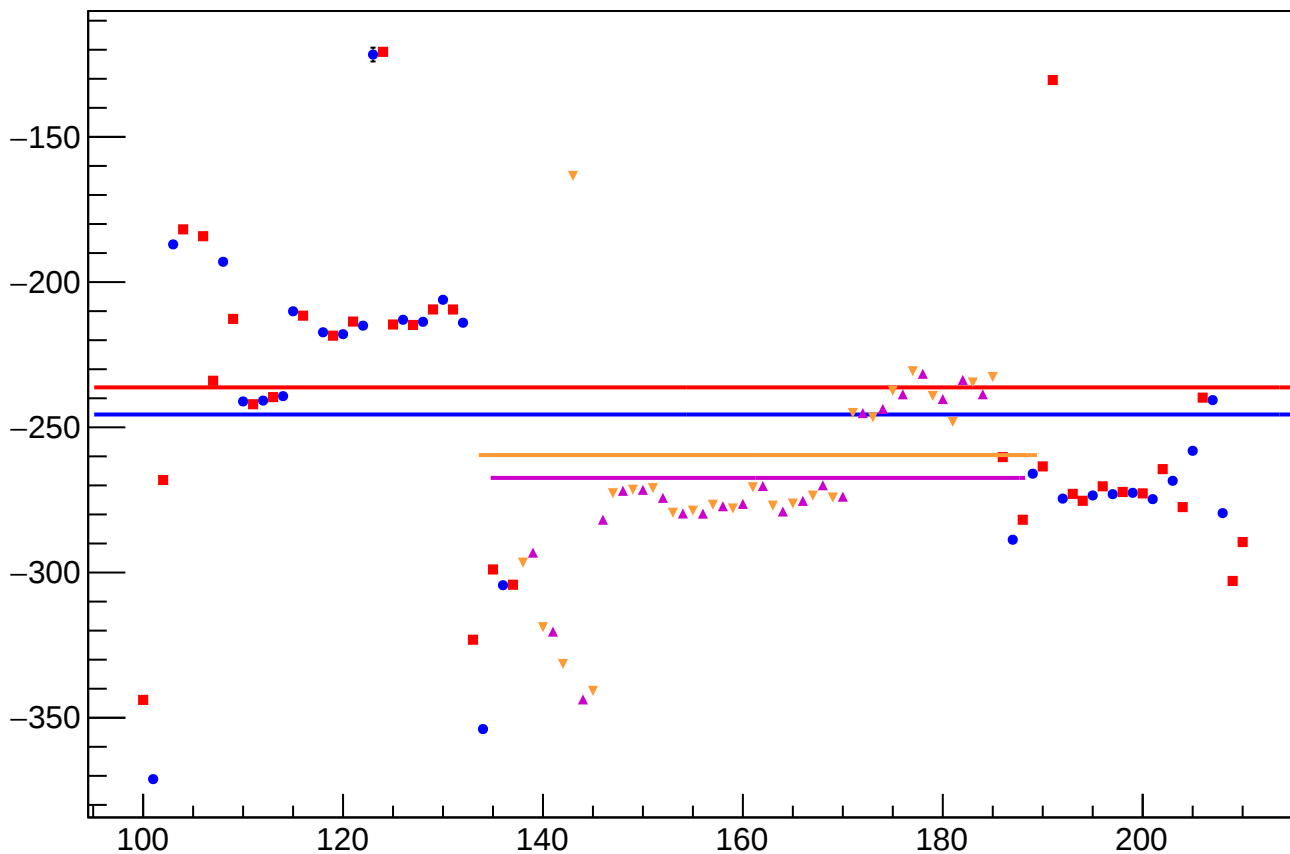
Right: 117.418 $\pm$ 1.687 χ^2 /NDF: 2194.5/60

In: 137.527 $\pm$ 1.425 χ^2 /NDF: 1559.6/50

Out: 126.771 $\pm$ 1.343 χ^2 /NDF: 1939.0/57

All: 131.830 $\pm$ 0.977 χ^2 /NDF: 3528.7/108

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.584+/-0.123 χ^2/NDF : 164765.3/27

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -236.250+/-0.113 χ^2/NDF : 181667.5/32

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

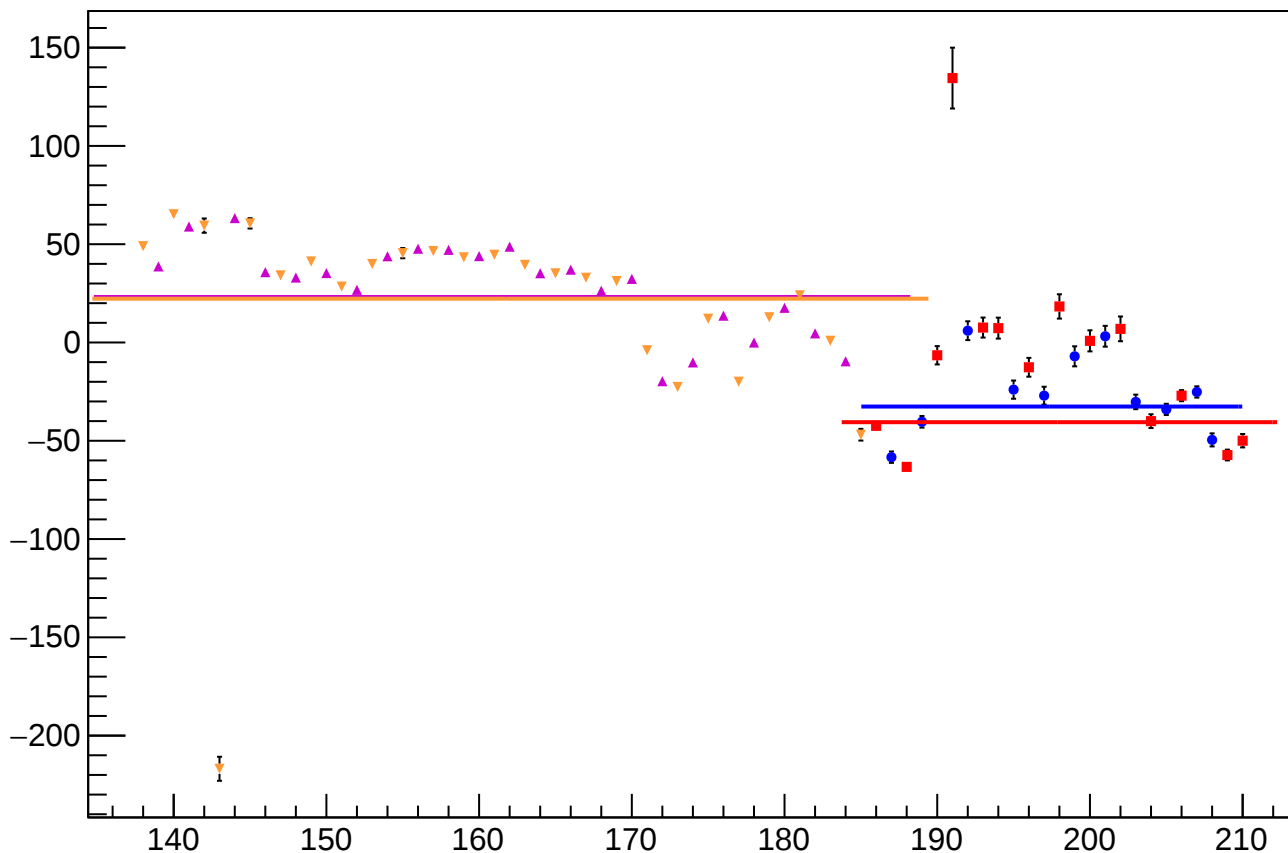
Right: -240.520+/-0.083 χ^2/NDF : 349564.7/60

In: -260.726+/-0.068 χ^2/NDF : 284702.8/50

Out: -251.877+/-0.065 χ^2/NDF : 448518.8/57

All: -256.085+/-0.047 χ^2/NDF : 742099.6/108

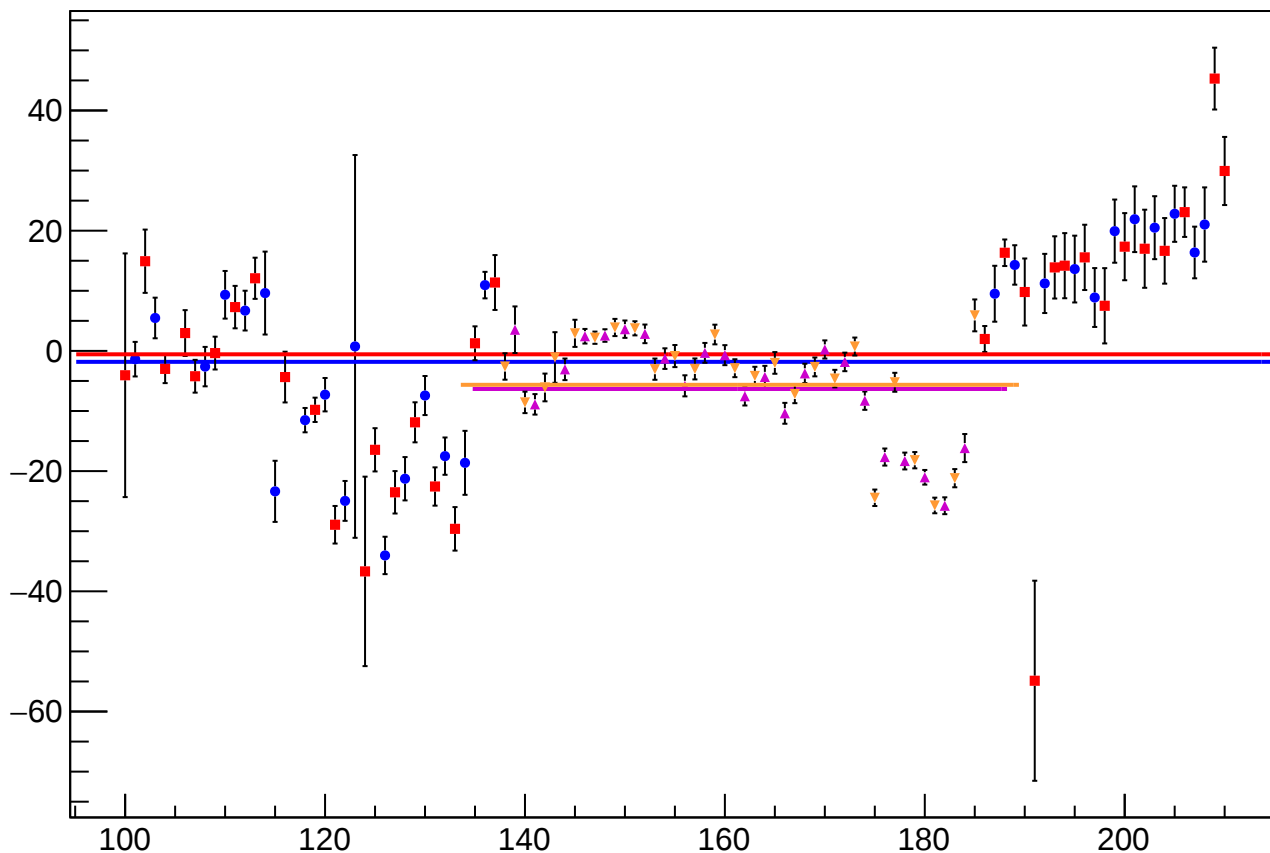
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.589 ± 1.081 $\chi^2/\text{NDF}: 260.5/10$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -40.546 ± 0.839 $\chi^2/\text{NDF}: 873.3/13$
 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: -37.553 ± 0.663 $\chi^2/\text{NDF}: 1167.6/24$
 In: 16.383 ± 0.376 $\chi^2/\text{NDF}: 5340.3/33$
 Out: 10.711 ± 0.360 $\chi^2/\text{NDF}: 10615.0/38$
 All: 13.422 ± 0.260 $\chi^2/\text{NDF}: 16073.9/72$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.821 ± 0.692 $\chi^2/\text{NDF}: 487.0/27$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -0.567 ± 0.629 $\chi^2/\text{NDF}: 601.5/32$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

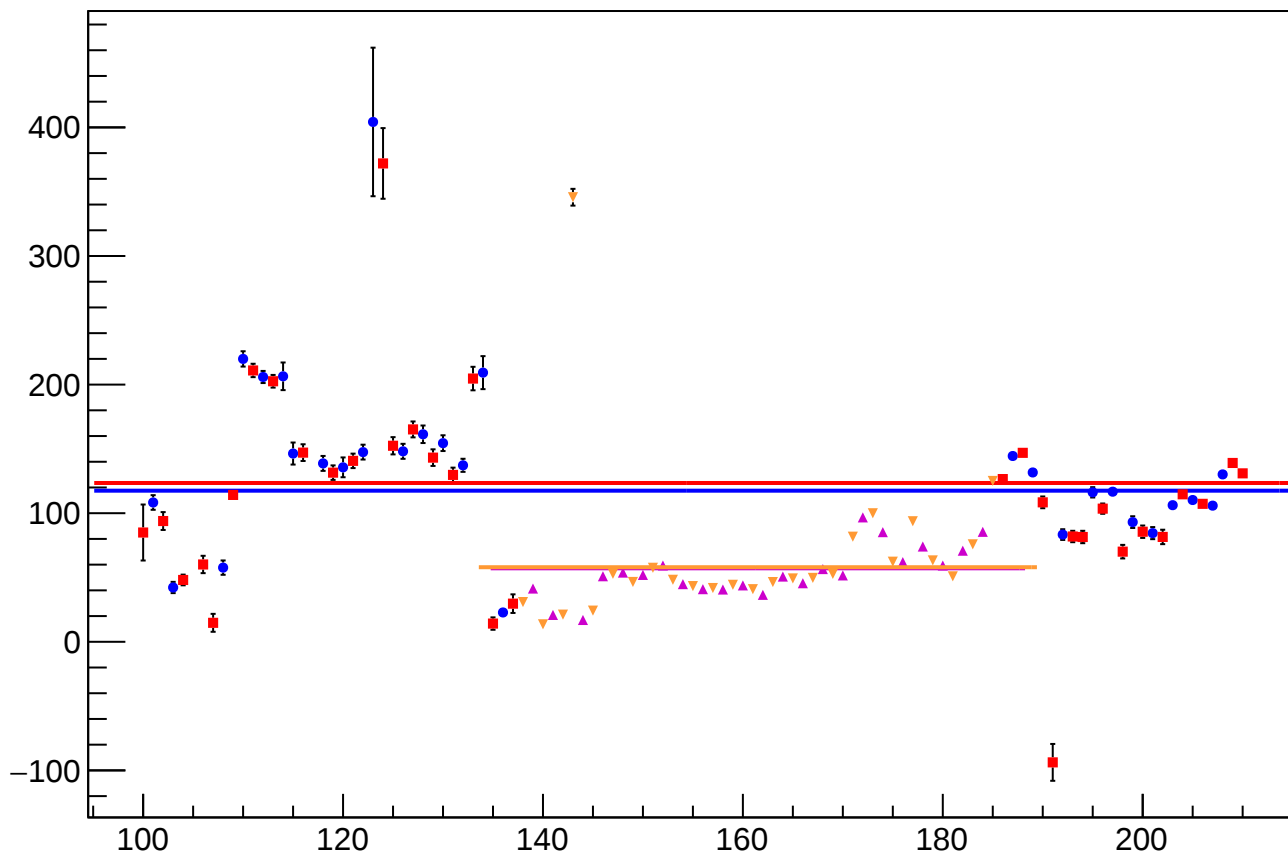
Right: -1.134 ± 0.465 $\chi^2/\text{NDF}: 1090.3/60$

In: -5.537 ± 0.291 $\chi^2/\text{NDF}: 1305.0/50$

Out: -4.622 ± 0.282 $\chi^2/\text{NDF}: 1547.2/57$

All: -5.065 ± 0.203 $\chi^2/\text{NDF}: 2857.3/108$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 117.509 $\pm$ 0.808 χ^2 /NDF: 2513.5/27

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF: 4635.7/24

Right Out: 123.493 $\pm$ 0.641 χ^2 /NDF: 3251.3/32

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

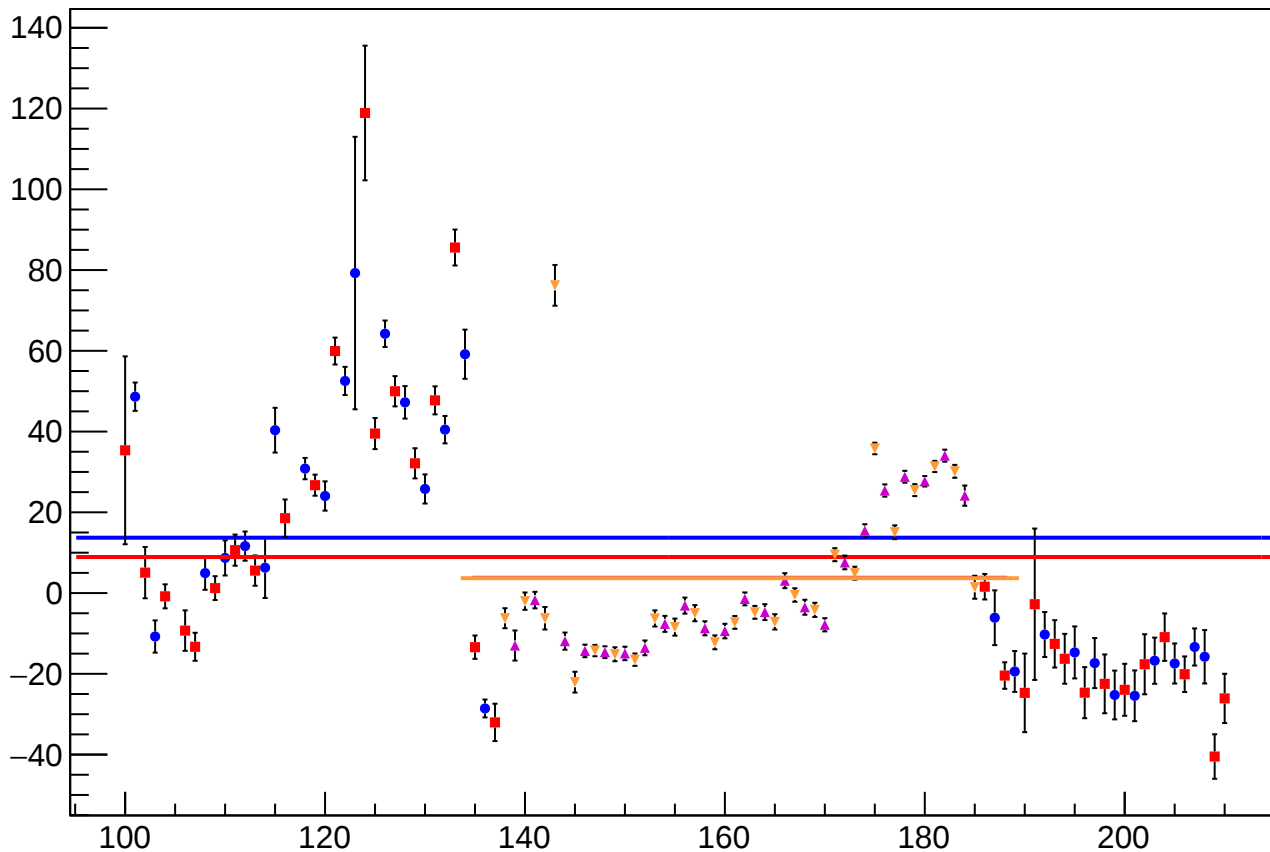
Right: 121.181 $\pm$ 0.502 χ^2 /NDF: 5798.5/60

In: 69.000 $\pm$ 0.358 χ^2 /NDF: 8802.2/50

Out: 76.204 $\pm$ 0.338 χ^2 /NDF: 15420.9/57

All: 72.809 $\pm$ 0.246 χ^2 /NDF: 24437.0/108

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.713 $\pm$ 0.798 χ^2 /NDF: 1462.8/27

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 8.929 $\pm$ 0.745 χ^2 /NDF: 1566.3/32

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

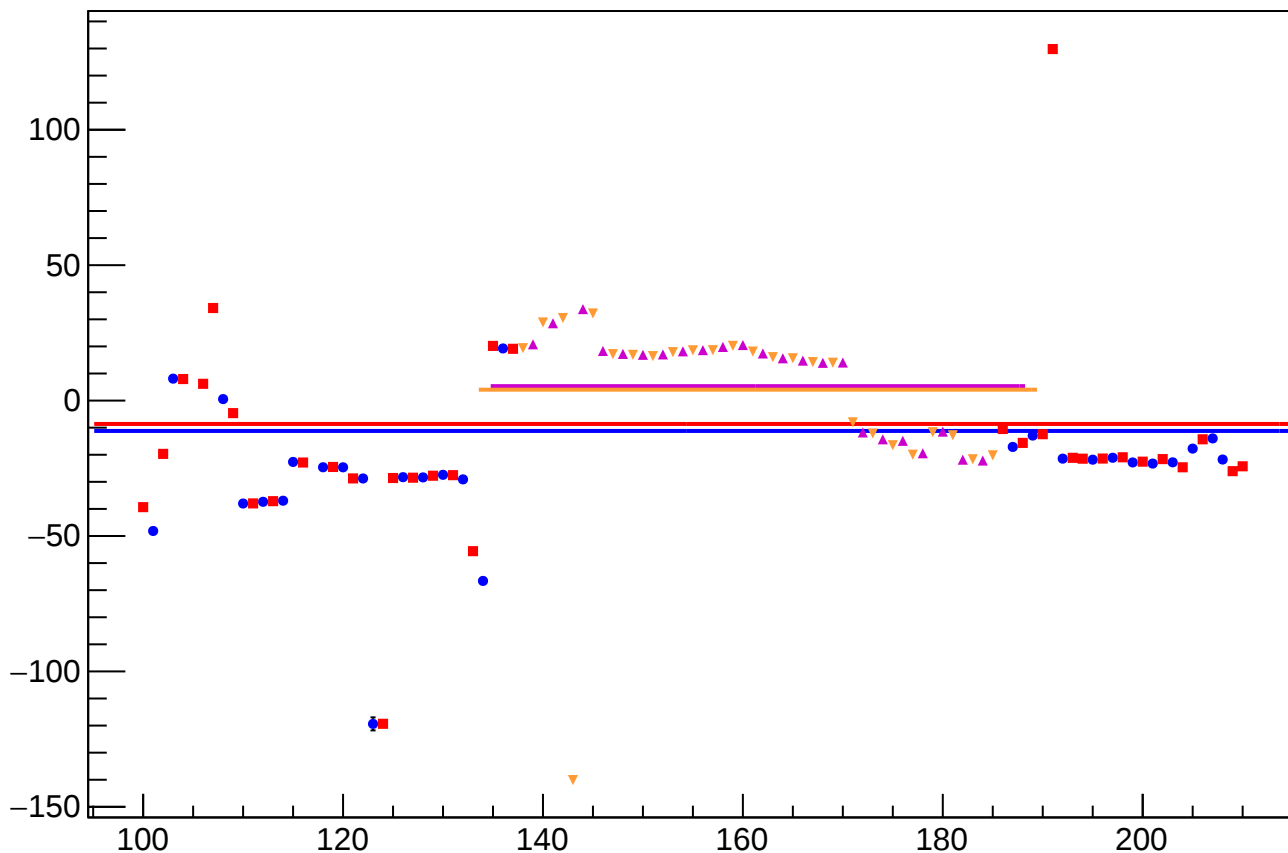
Right: 11.157 $\pm$ 0.545 χ^2 /NDF: 3048.3/60

In: 5.479 $\pm$ 0.329 χ^2 /NDF:3790.0/50

Out: 4.663 $\pm$ 0.322 χ^2 /NDF:4148.3/57

All: 5.061 $\pm$ 0.230 χ^2 /NDF: 7941.4/108

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.209 $\pm$ 0.037 χ^2 /NDF: 298690.5/27

Left Out: 4.026 $\pm$ 0.016 χ^2 /NDF:1383143.9/24

Right Out: -8.629 $\pm$ 0.036 χ^2 /NDF: 395198.4/32

Left In: 5.335 $\pm$ 0.016 χ^2 /NDF:1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2 /NDF: 2464153.9/47

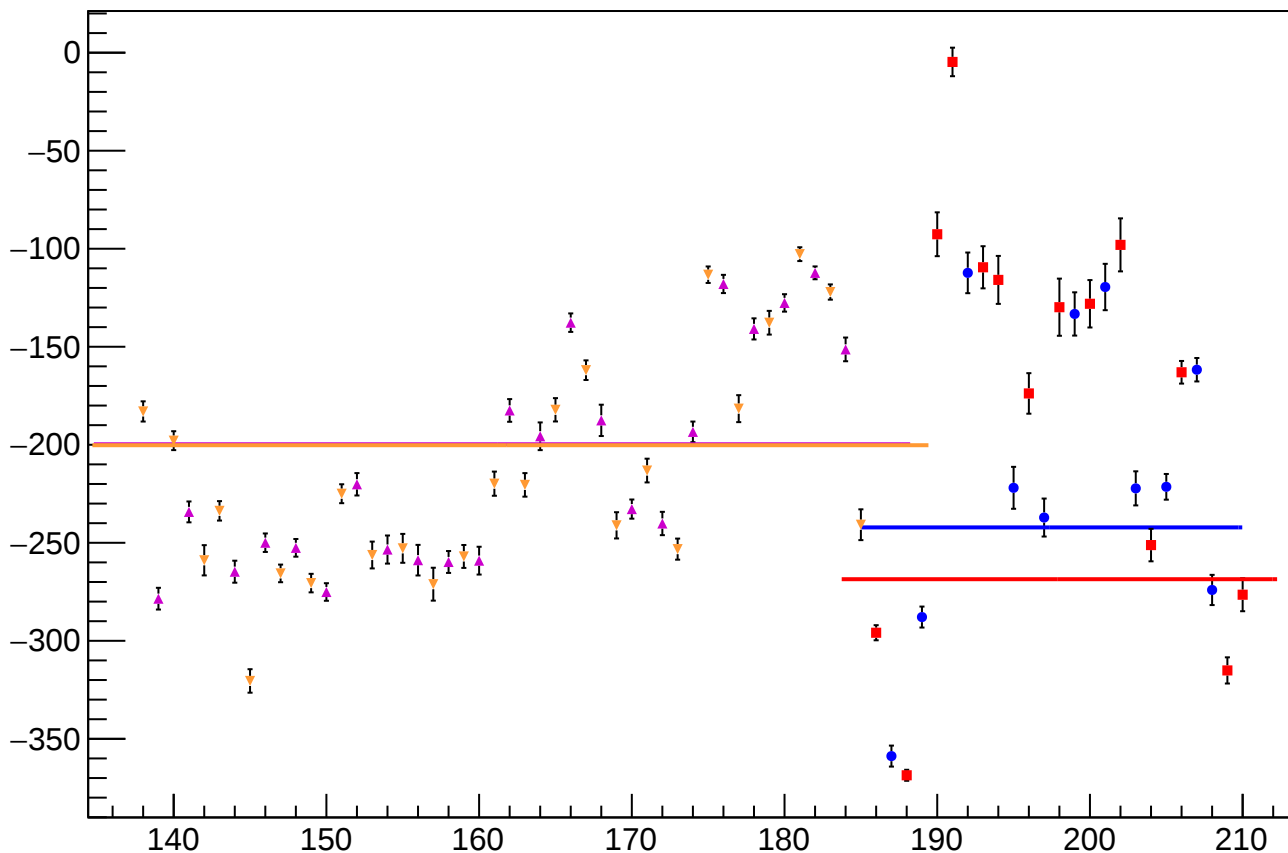
Right: -9.866 $\pm$ 0.026 χ^2 /NDF: 696400.0/60

In: 2.630 $\pm$ 0.015 χ^2 /NDF:1542436.4/50

Out: 1.823 $\pm$ 0.015 χ^2 /NDF:1882427.0/57

All: 2.223 $\pm$ 0.011 χ^2 /NDF: 3426319.4/108

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -242.150 ± 2.264 $\chi^2/\text{NDF}: 1126.1/10$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -268.574 ± 1.706 $\chi^2/\text{NDF}: 4108.7/13$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

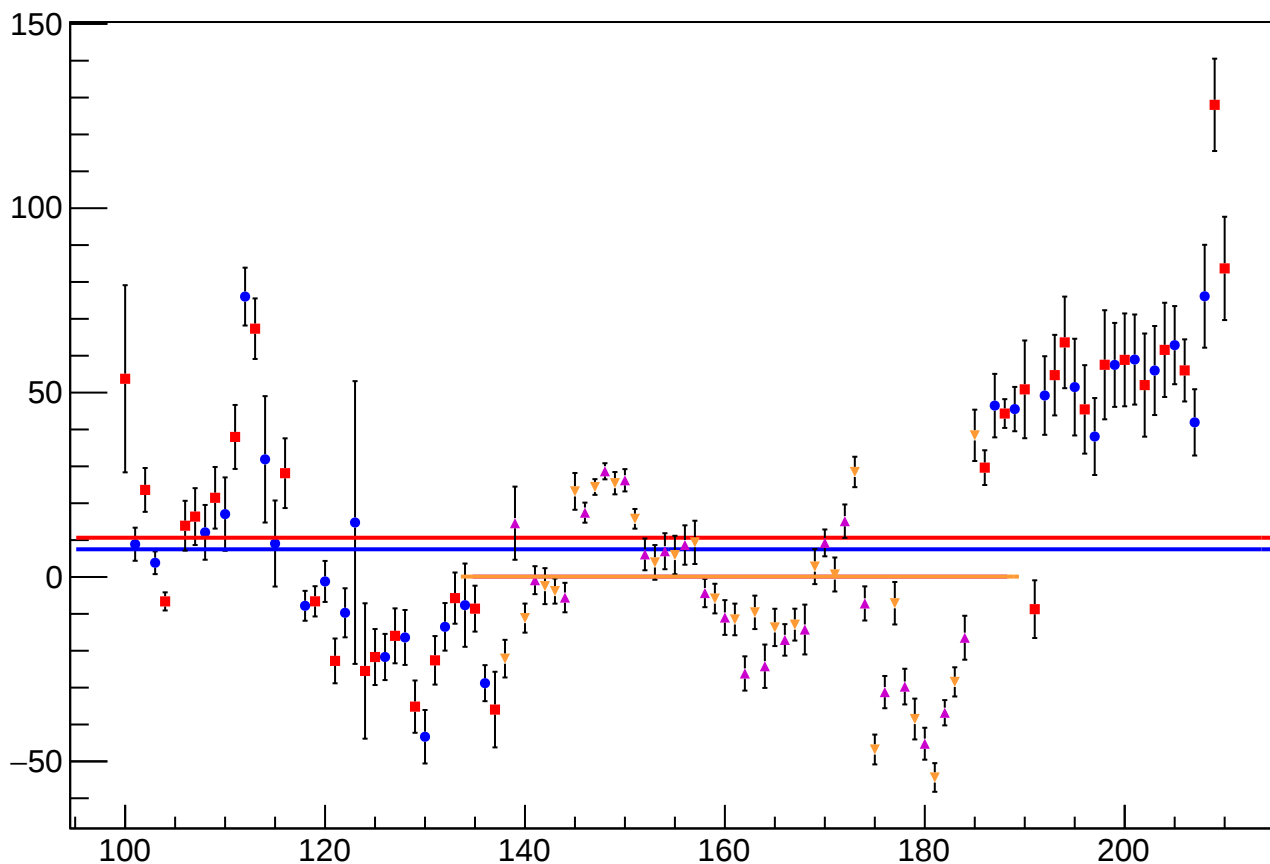
Right: -259.000 ± 1.363 $\chi^2/\text{NDF}: 5321.7/24$

In: -207.809 ± 0.987 $\chi^2/\text{NDF}: 4378.4/33$

Out: -219.720 ± 0.911 $\chi^2/\text{NDF}: 8480.4/38$

All: -214.242 ± 0.670 $\chi^2/\text{NDF}: 12937.4/72$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.508 ± 1.318 $\chi^2/\text{NDF}: 468.5/27$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 10.646 ± 1.183 $\chi^2/\text{NDF}: 648.8/32$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

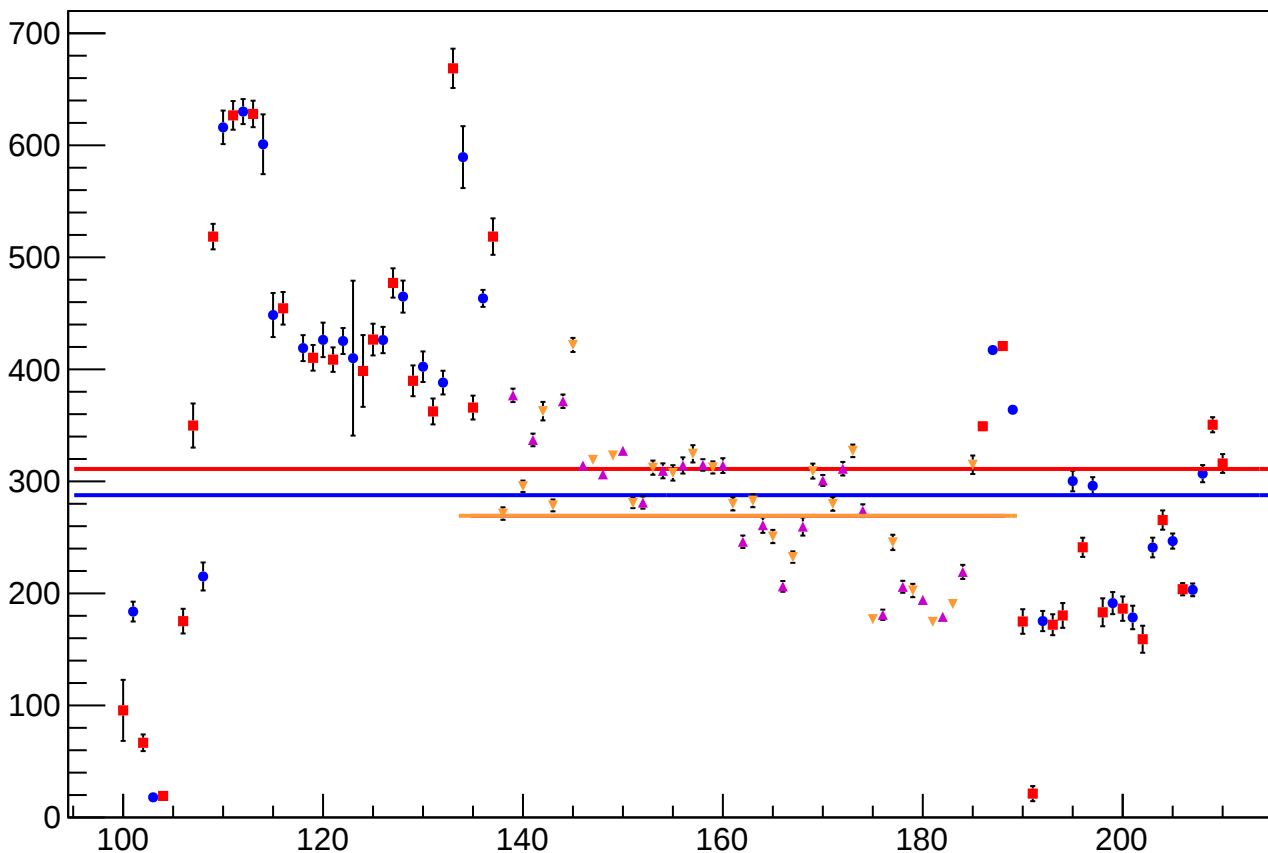
Right: 9.245 ± 0.880 $\chi^2/\text{NDF}: 1120.5/60$

In: 2.231 ± 0.707 $\chi^2/\text{NDF}: 1206.5/50$

Out: 3.455 ± 0.667 $\chi^2/\text{NDF}: 1534.2/57$

All: 2.879 ± 0.485 $\chi^2/\text{NDF}: 2742.3/108$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 287.694 $\pm$ 1.569 χ^2 /NDF: 9512.5/27

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 311.086 $\pm$ 1.255 χ^2 /NDF: 14395.9/32

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

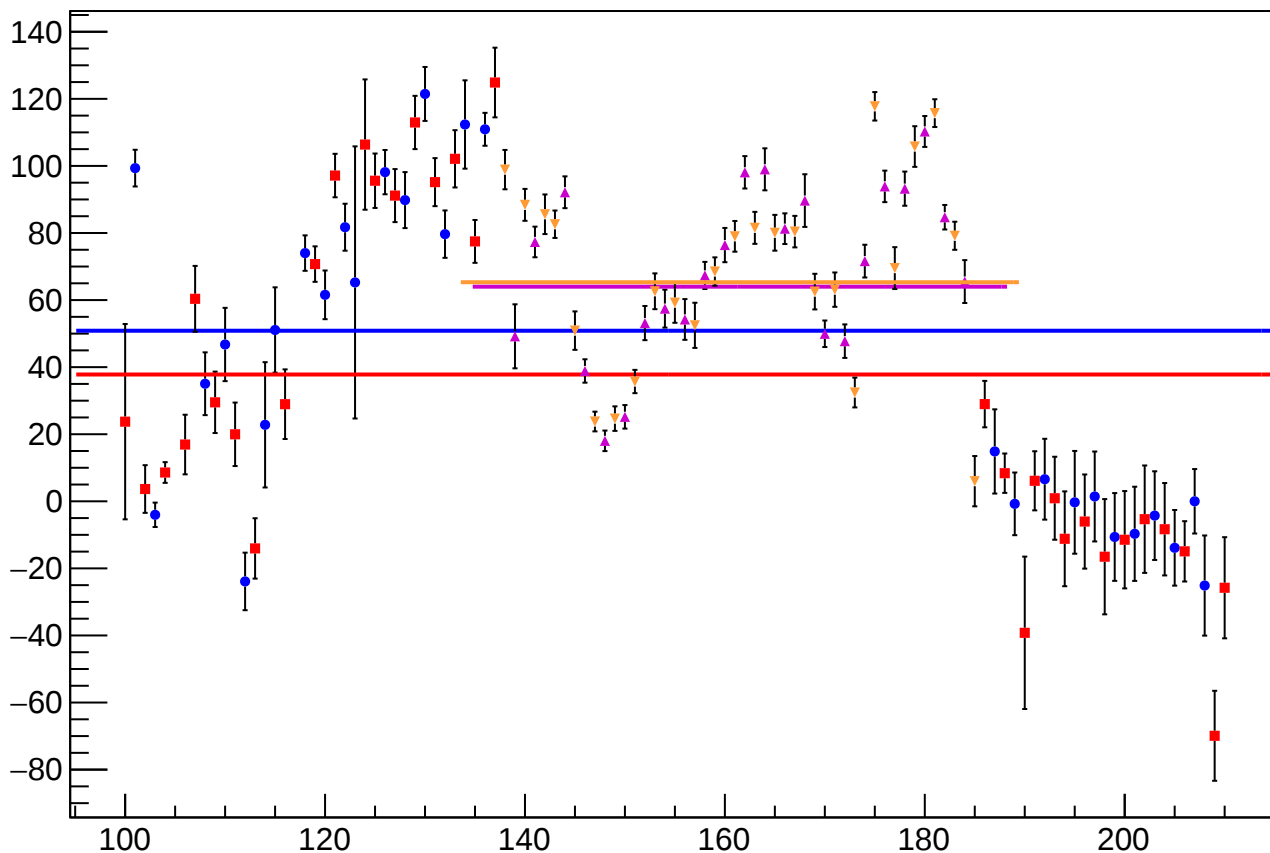
Right: 301.962 $\pm$ 0.980 χ^2 /NDF: 24044.1/60

In: 275.219 $\pm$ 0.895 χ^2 /NDF:12776.5/50

Out: 287.028 $\pm$ 0.817 χ^2 /NDF:18181.7/57

All: 281.661 $\pm$ 0.604 χ^2 /NDF: 31053.1/108

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 50.859 $\pm$ 1.540 χ^2 /NDF: 988.8/27

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 37.808 $\pm$ 1.427 χ^2 /NDF: 951.1/32

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

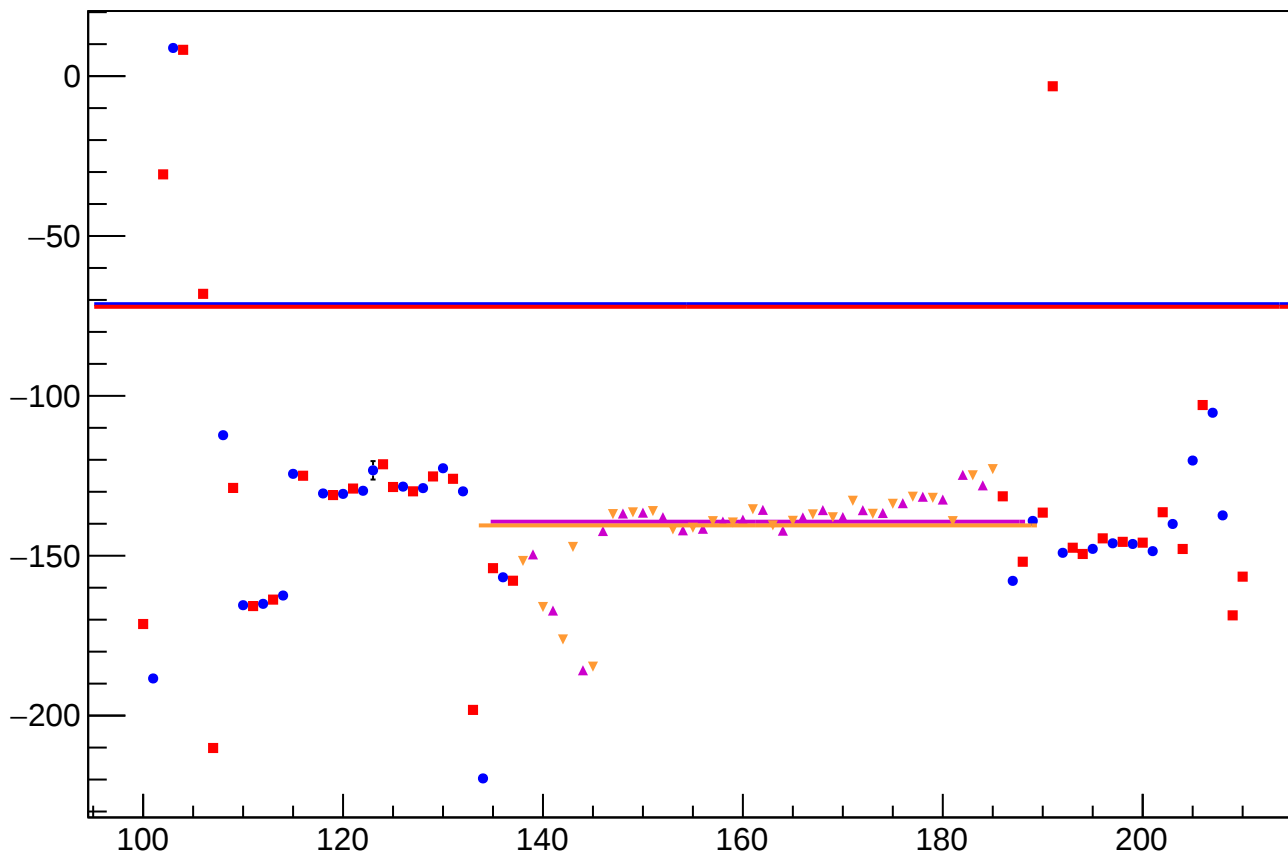
Right: 43.838 $\pm$ 1.047 χ^2 /NDF: 1978.5/60

In: 60.306 $\pm$ 0.816 χ^2 /NDF:1840.6/50

Out: 57.064 $\pm$ 0.782 χ^2 /NDF:2218.3/57

All: 58.615 $\pm$ 0.565 χ^2 /NDF: 4067.2/108

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -71.329 ± 0.062 $\chi^2/\text{NDF}: 1548236.9/27$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -72.143 ± 0.060 $\chi^2/\text{NDF}: 1425128.6/32$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

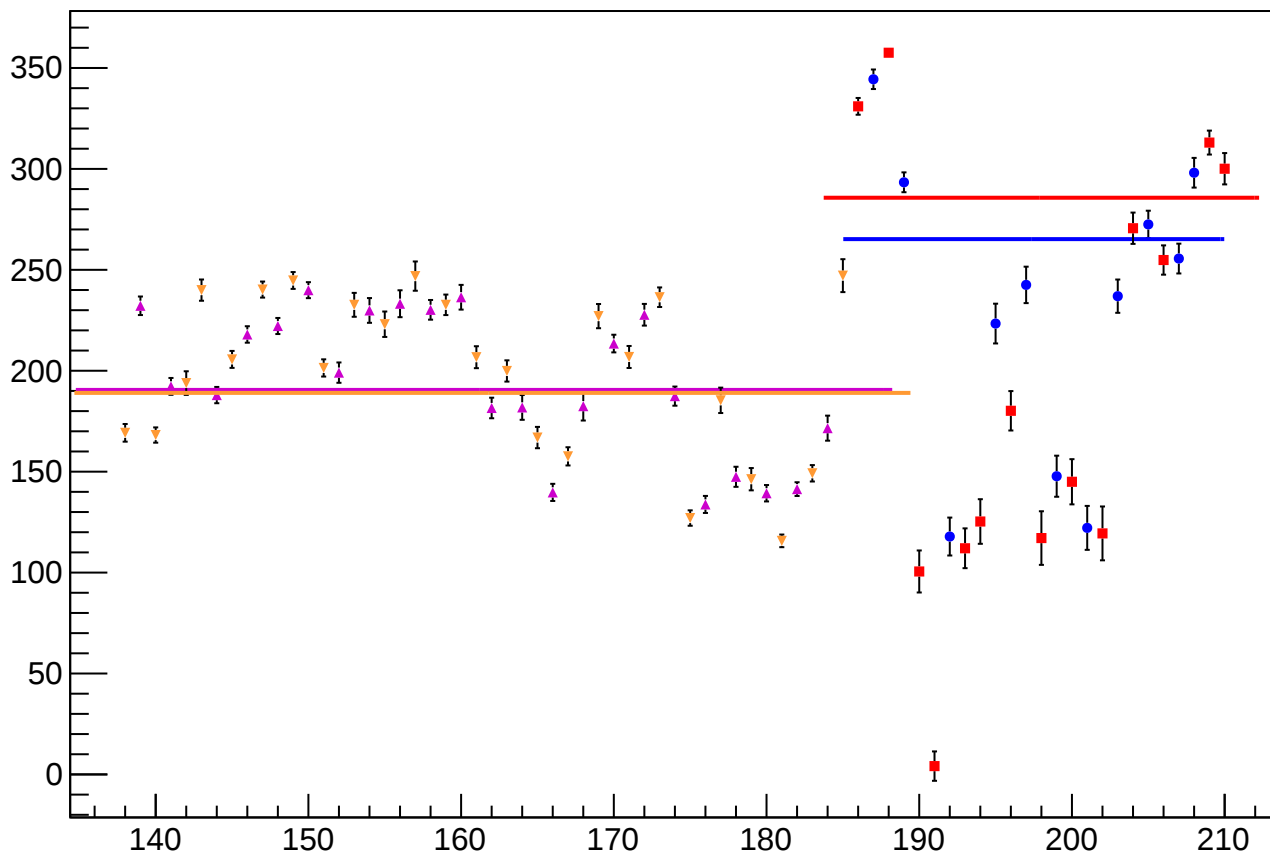
Right: -71.750 ± 0.043 $\chi^2/\text{NDF}: 2973453.3/60$

In: -116.119 ± 0.037 $\chi^2/\text{NDF}: 2391145.4/50$

Out: -116.401 ± 0.036 $\chi^2/\text{NDF}: 2333405.9/57$

All: -116.262 ± 0.026 $\chi^2/\text{NDF}: 4724581.6/100$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 265.213 $\pm$ 2.186 χ^2 /NDF: 911.4/10

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 285.722 $\pm$ 1.635 χ^2 /NDF: 3913.3/13

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

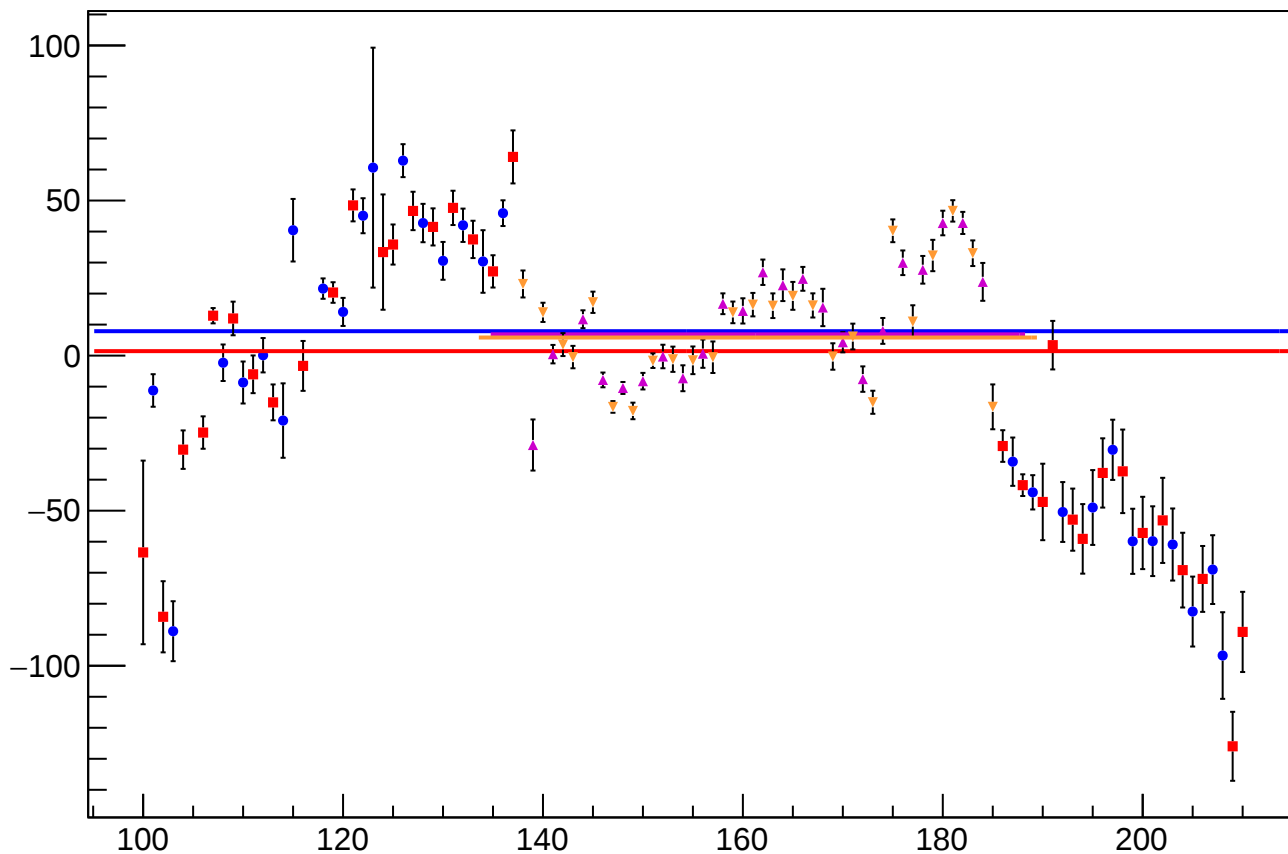
Right: 278.366 $\pm$ 1.309 χ^2 /NDF: 4881.1/24

In: 202.906 $\pm$ 0.890 χ^2 /NDF:3298.5/33

Out: 213.670 $\pm$ 0.825 χ^2 /NDF:8501.7/38

All: 208.697 $\pm$ 0.605 χ^2 /NDF: 11878.8/72

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.875 ± 1.255 χ^2/NDF : 960.5/27

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 1.442 ± 1.066 χ^2/NDF : 1162.7/32

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

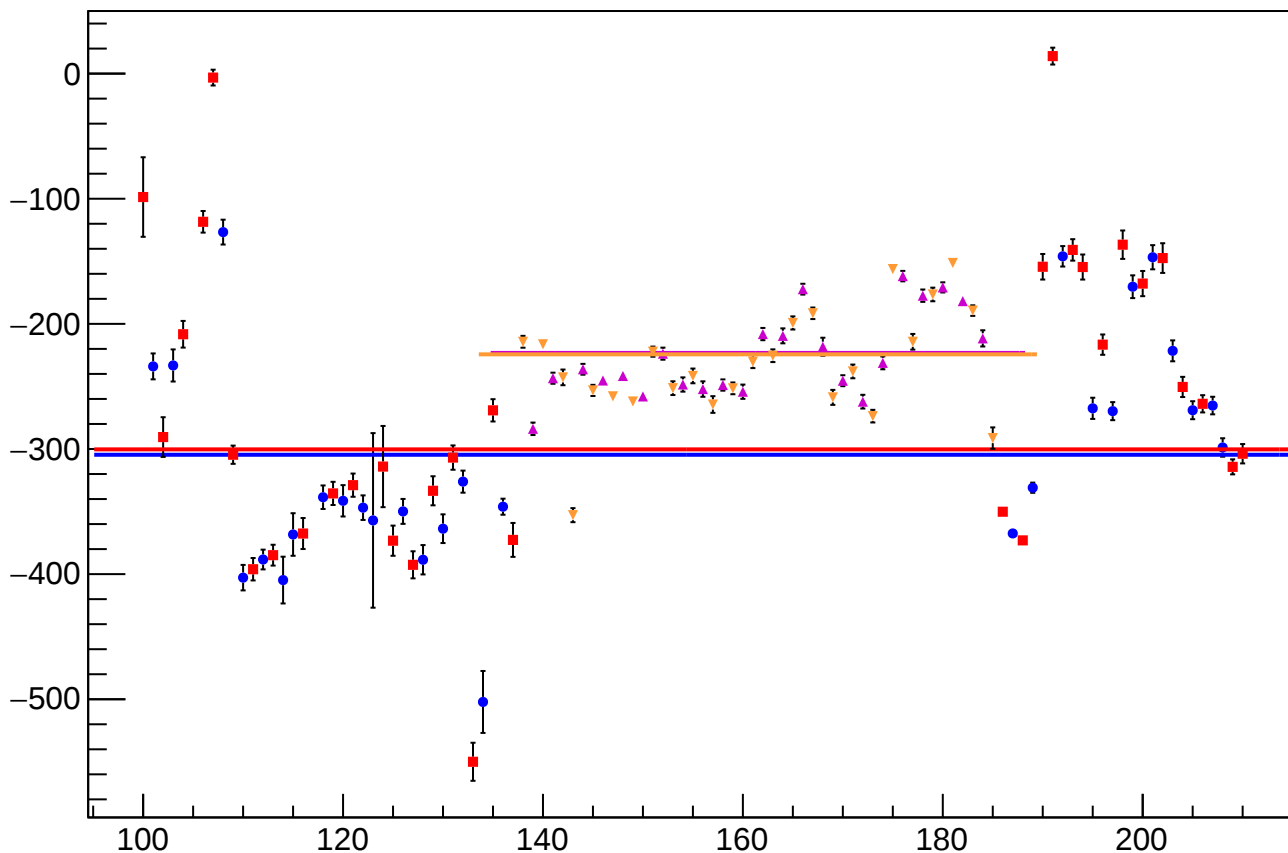
Right: 4.138 ± 0.813 χ^2/NDF : 2138.4/60

In: 7.121 ± 0.635 χ^2/NDF : 1483.7/50

Out: 4.479 ± 0.592 χ^2/NDF : 1826.7/57

All: 5.708 ± 0.433 χ^2/NDF : 3319.6/108

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -304.603+/-1.550 χ^2/NDF : 2249.0/27

Left Out: -224.364+/-0.956 χ^2/NDF :2103.2/24

Right Out: -300.299+/-1.196 χ^2/NDF : 8664.7/32

Left In: -223.223+/-0.969 χ^2/NDF :1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

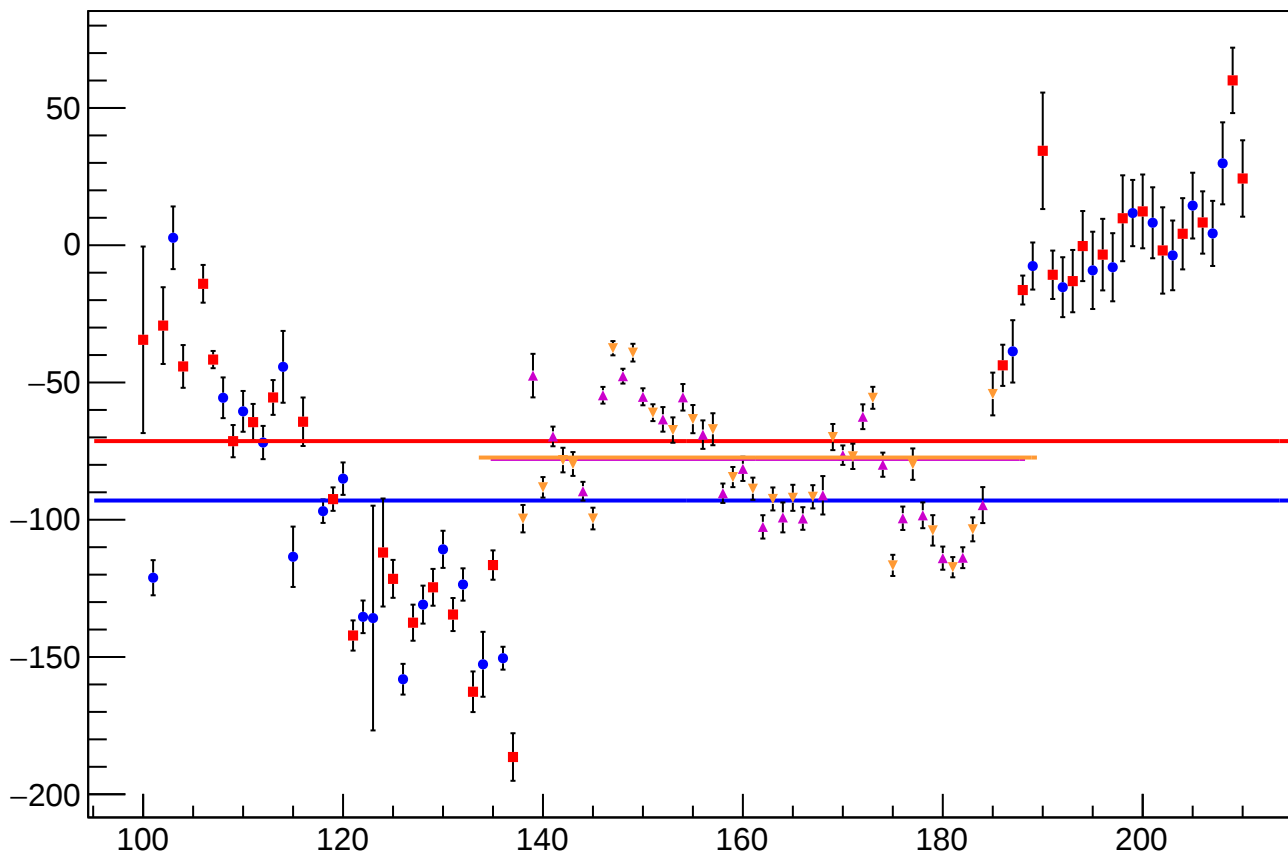
Right: -301.906+/-0.947 χ^2/NDF : 10918.5/60

In: -246.107+/-0.822 χ^2/NDF :5501.0/50

Out: -253.957+/-0.747 χ^2/NDF :13226.6/57

All: -250.406+/-0.553 χ^2/NDF : 18777.5/108

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.000 ± 1.460 $\chi^2/\text{NDF}: 1289.6/27$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -71.351 ± 1.276 $\chi^2/\text{NDF}: 1728.1/32$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

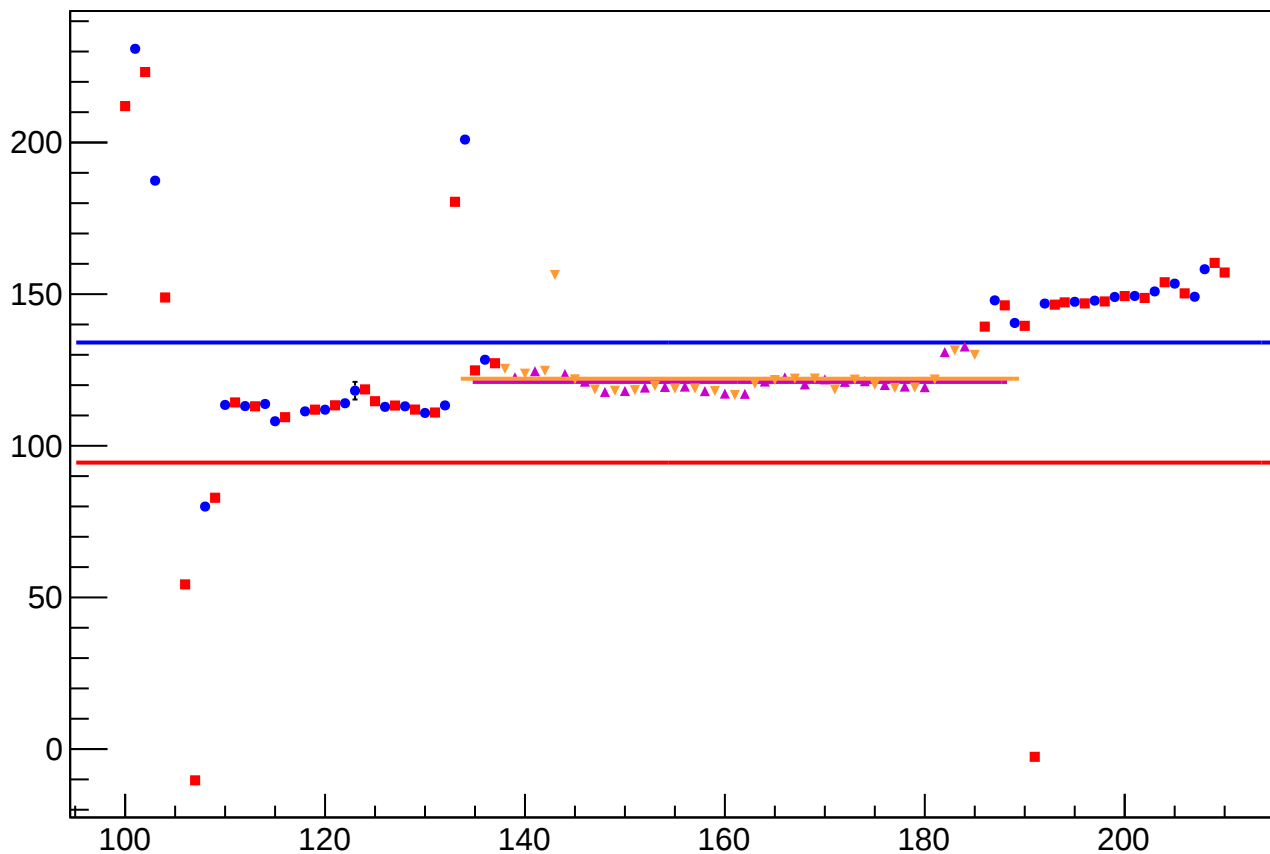
Right: -80.728 ± 0.961 $\chi^2/\text{NDF}: 3142.3/60$

In: -81.668 ± 0.734 $\chi^2/\text{NDF}: 1993.0/50$

Out: -75.573 ± 0.694 $\chi^2/\text{NDF}: 2589.8/57$

All: -78.450 ± 0.504 $\chi^2/\text{NDF}: 4619.3/108$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 134.058+/-0.074

χ^2/NDF : 206116.2/27

Left Out: 122.119+/-0.039

χ^2/NDF :30480.7/24

Right Out: 94.459+/-0.062

χ^2/NDF : 1154148.3/32

Left In: 121.055+/-0.040

χ^2/NDF :7931.6/22

Left: 121.591+/-0.028

χ^2/NDF : 38773.7/47

Right: 110.692+/-0.047

χ^2/NDF : 1529239.8/60

In: 123.965+/-0.035

χ^2/NDF :238013.1/50

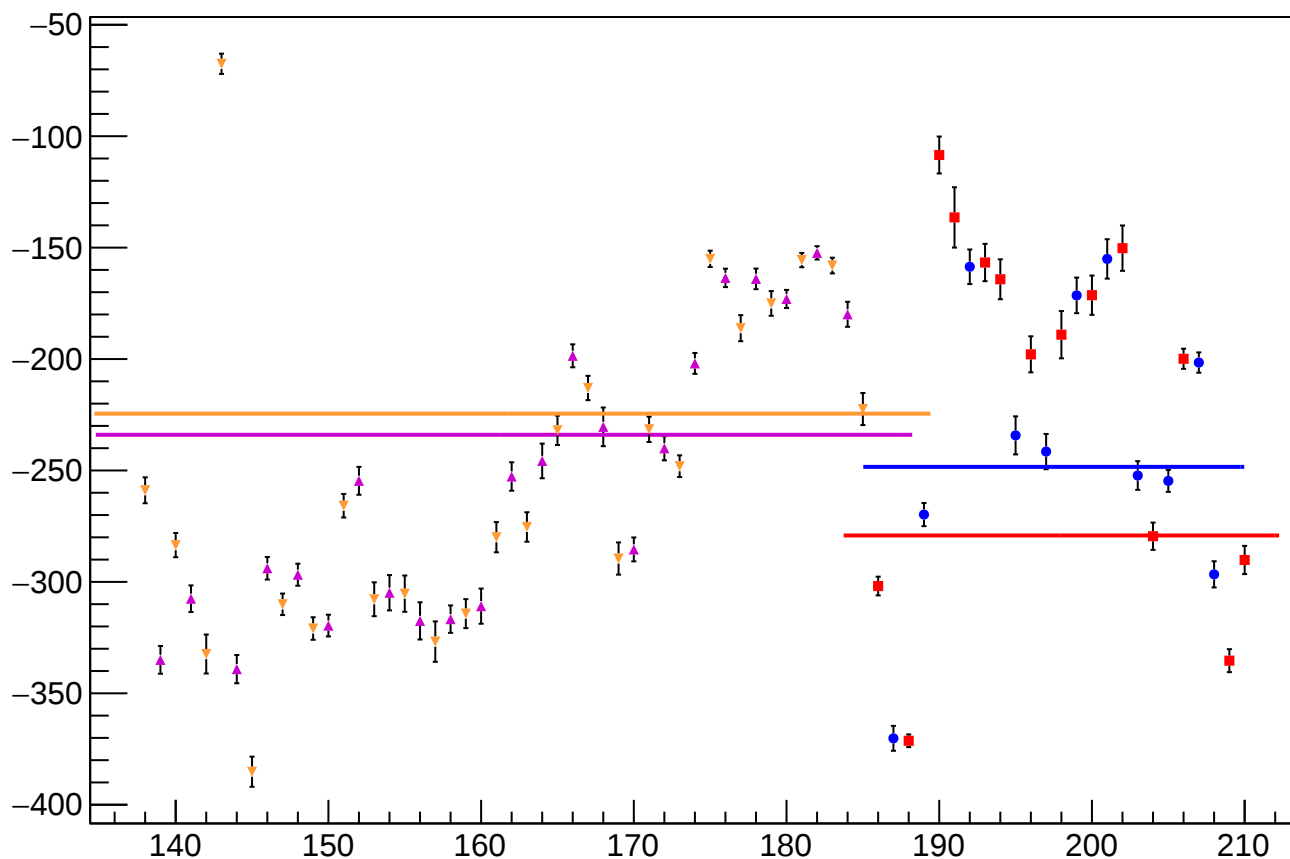
Out: 114.099+/-0.033

χ^2/NDF :1327434.1/57

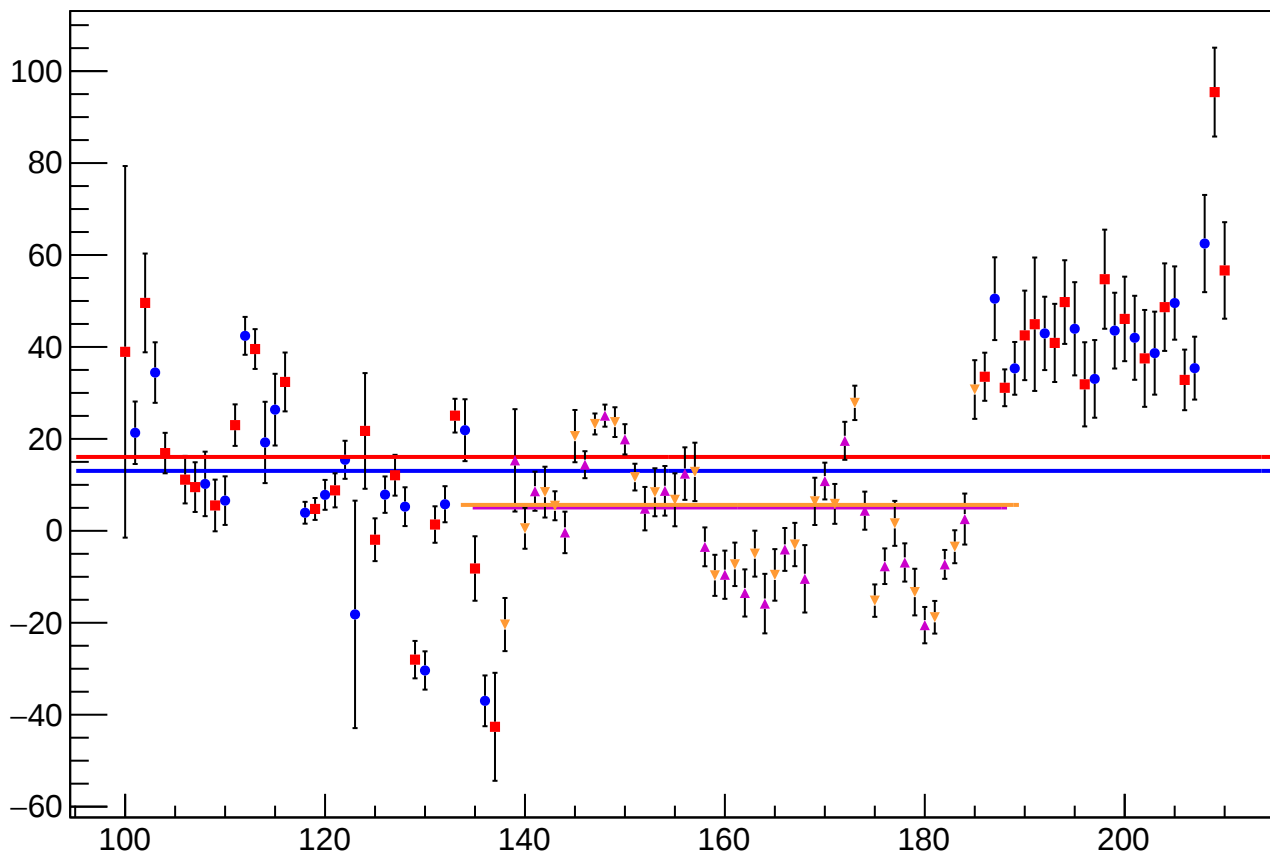
All: 118.773+/-0.024

χ^2/NDF : 1607249.1/108

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.038 $\pm$ 1.007 χ^2 /NDF: 434.9/27

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.072 $\pm$ 0.952 χ^2 /NDF: 460.6/32

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

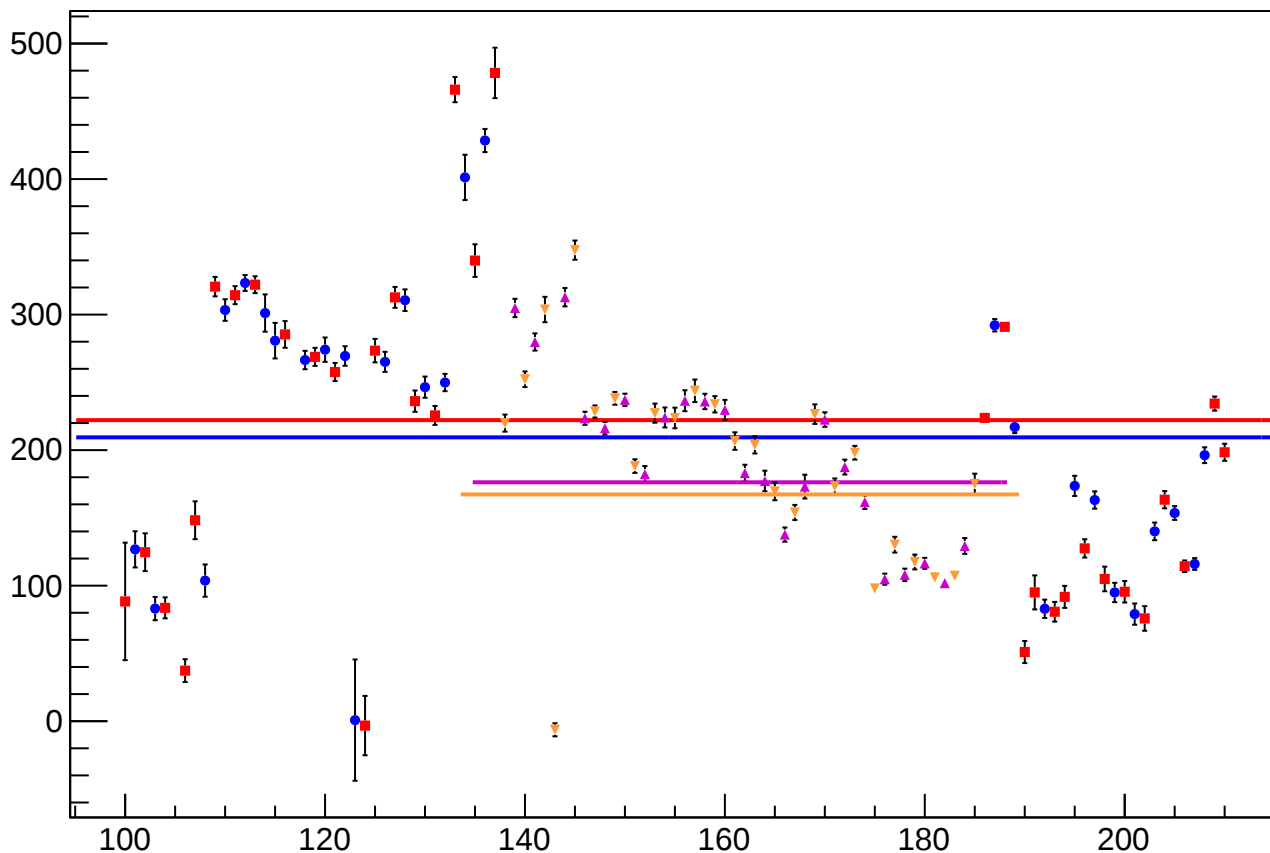
Right: 14.641 $\pm$ 0.692 χ^2 /NDF: 900.3/60

In: 8.474 $\pm$ 0.658 χ^2 /NDF:710.4/50

Out: 10.133 $\pm$ 0.625 χ^2 /NDF:842.7/57

All: 9.347 $\pm$ 0.453 χ^2 /NDF: 1556.5/108

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.427 $\pm$ 1.323 χ^2 /NDF: 4195.9/27

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 222.134 $\pm$ 1.125 χ^2 /NDF: 6590.6/32

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

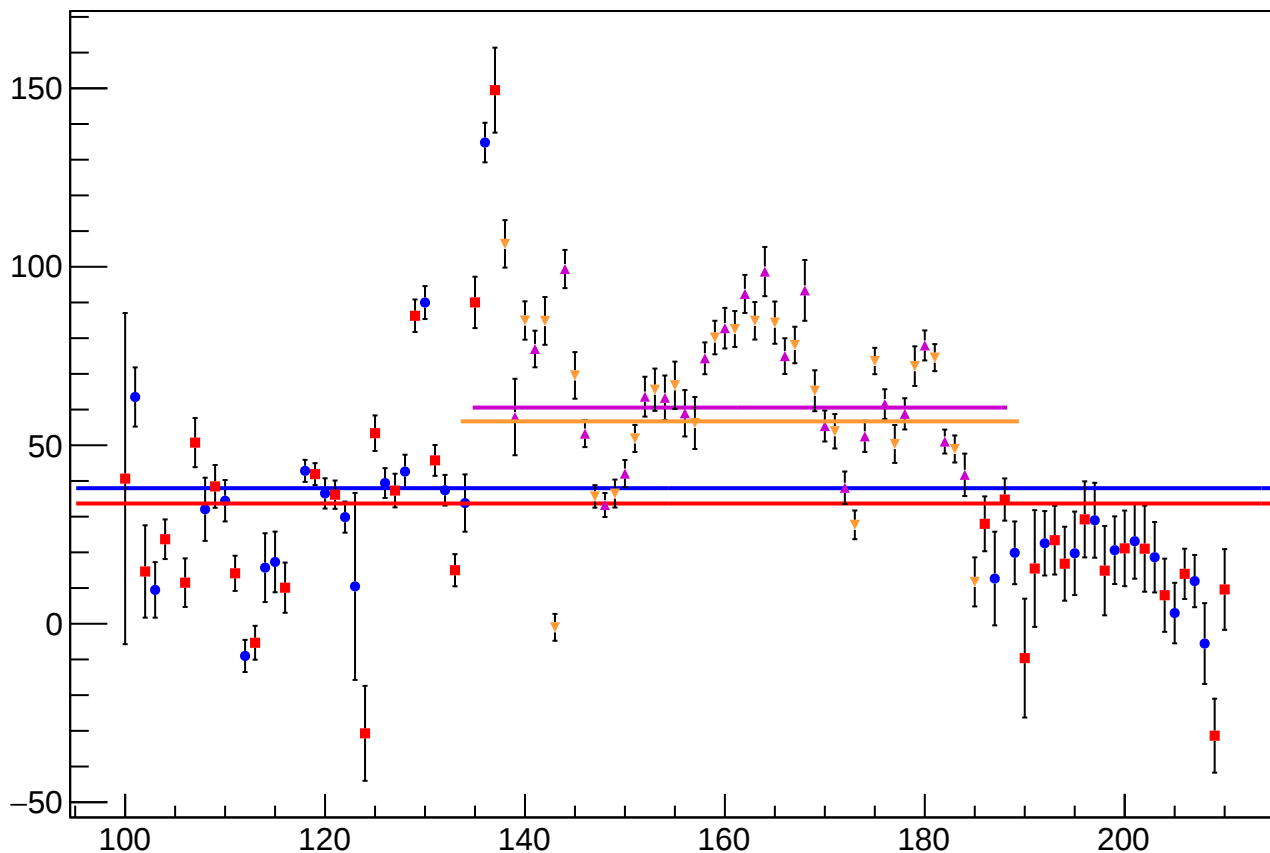
Right: 216.802 $\pm$ 0.857 χ^2 /NDF: 10840.1/60

In: 189.909 $\pm$ 0.848 χ^2 /NDF:7735.3/50

Out: 193.684 $\pm$ 0.780 χ^2 /NDF:12277.8/57

All: 191.955 $\pm$ 0.574 χ^2 /NDF: 20023.8/108

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 37.977 ± 1.169 χ^2/NDF : 652.0/27

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 33.688 ± 1.115 χ^2/NDF : 554.4/32

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

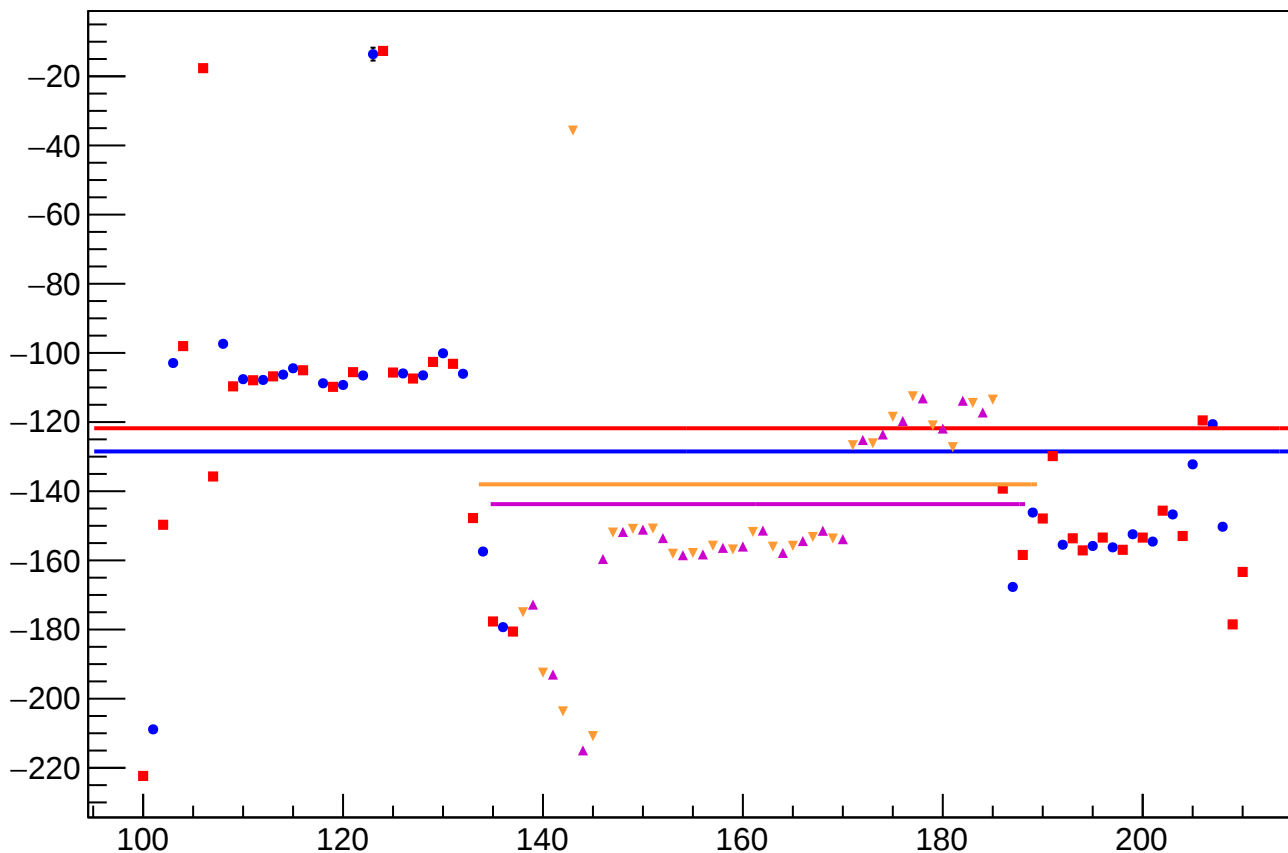
Right: 35.731 ± 0.807 χ^2/NDF : 1213.5/60

In: 51.123 ± 0.756 χ^2/NDF : 1204.9/50

Out: 46.997 ± 0.724 χ^2/NDF : 1491.2/57

All: 48.971 ± 0.523 χ^2/NDF : 2711.6/108

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.497 ± 0.062 $\chi^2/\text{NDF}: 208166.0/27$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -121.791 ± 0.058 $\chi^2/\text{NDF}: 475816.8/32$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

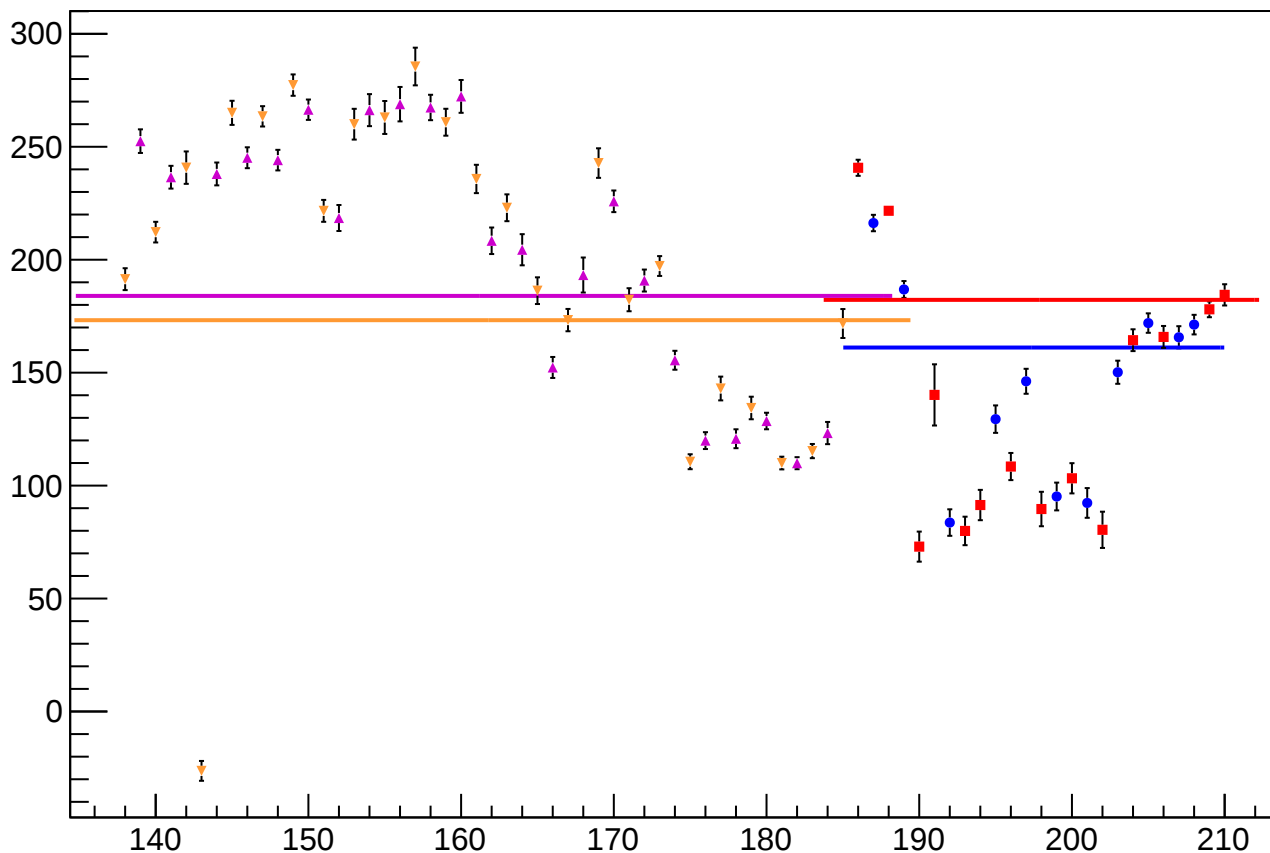
Right: -124.893 ± 0.043 $\chi^2/\text{NDF}: 690170.7/60$

In: -138.365 ± 0.037 $\chi^2/\text{NDF}: 505078.7/50$

Out: -131.890 ± 0.036 $\chi^2/\text{NDF}: 1090307.9/57$

All: -134.995 ± 0.026 $\chi^2/\text{NDF}: 1611244.5/10$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 161.126 $\pm$ 1.454 χ^2/NDF : 728.7/10

Left Out: 173.229 $\pm$ 0.966 χ^2/NDF :5846.0/24

Right Out: 182.230 $\pm$ 1.165 χ^2/NDF : 2068.3/13

Left In: 183.984 $\pm$ 0.991 χ^2/NDF :3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2/NDF : 9520.1/47

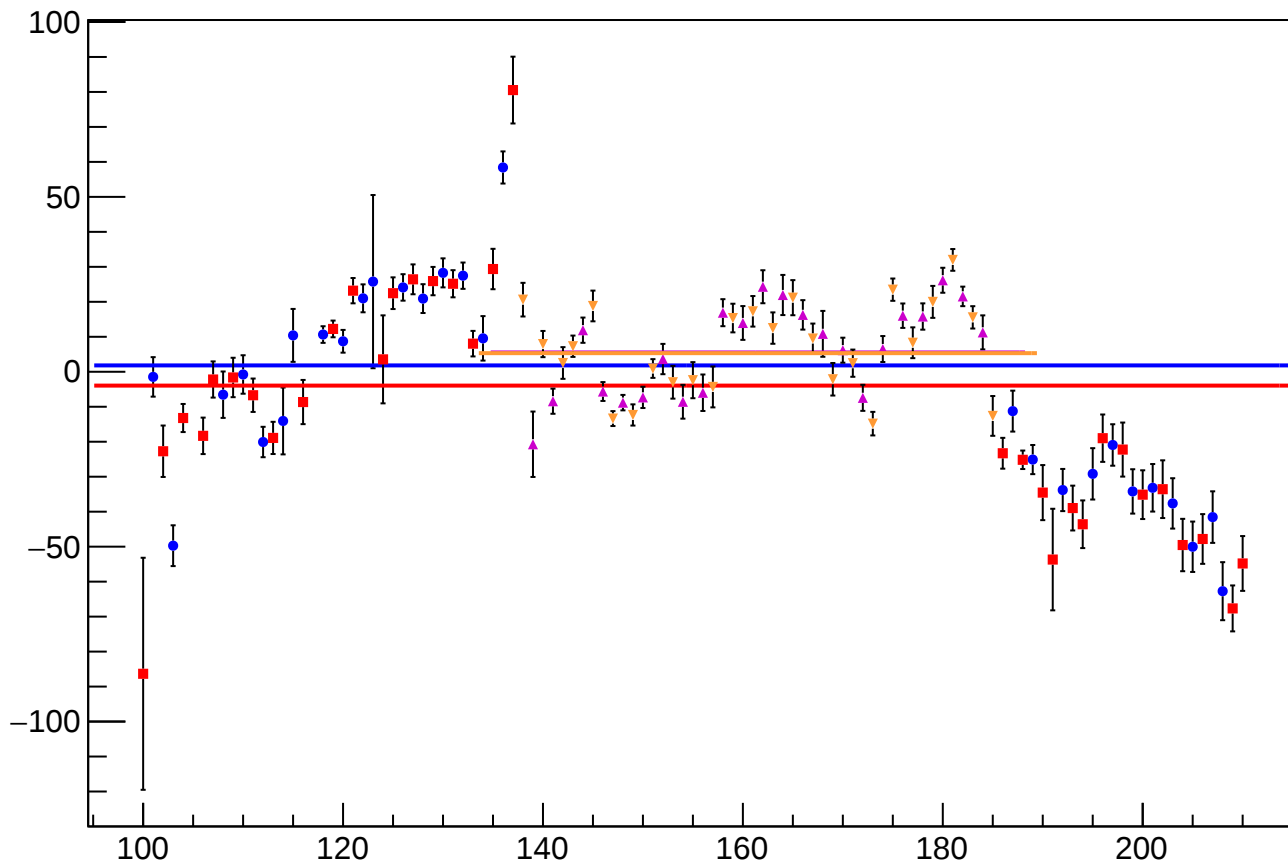
Right: 173.977 $\pm$ 0.909 χ^2/NDF : 2925.4/24

In: 176.731 $\pm$ 0.819 χ^2/NDF :4511.1/33

Out: 176.895 $\pm$ 0.743 χ^2/NDF :7949.7/38

All: 176.821 $\pm$ 0.550 χ^2/NDF : 12460.9/72

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.818 ± 0.935 χ^2/NDF : 798.7/27

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -3.954 ± 0.870 χ^2/NDF : 887.0/32

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

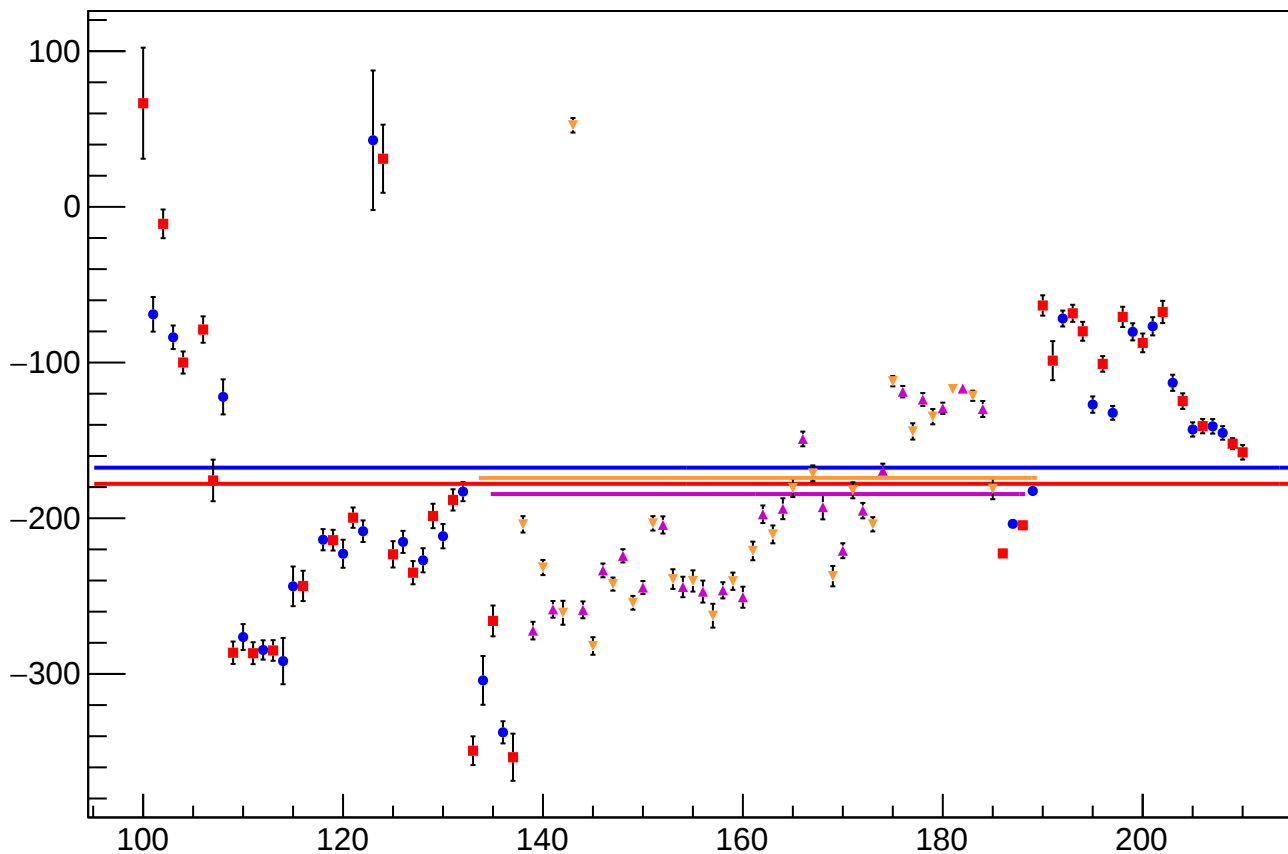
Right: -1.277 ± 0.637 χ^2/NDF : 1706.1/60

In: 4.003 ± 0.599 χ^2/NDF : 1064.3/50

Out: 1.383 ± 0.567 χ^2/NDF : 1297.9/57

All: 2.620 ± 0.412 χ^2/NDF : 2372.3/108

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -167.519 ± 1.097 χ^2/NDF : 3119.4/27

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -177.875 ± 0.894 χ^2/NDF : 4983.4/32

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

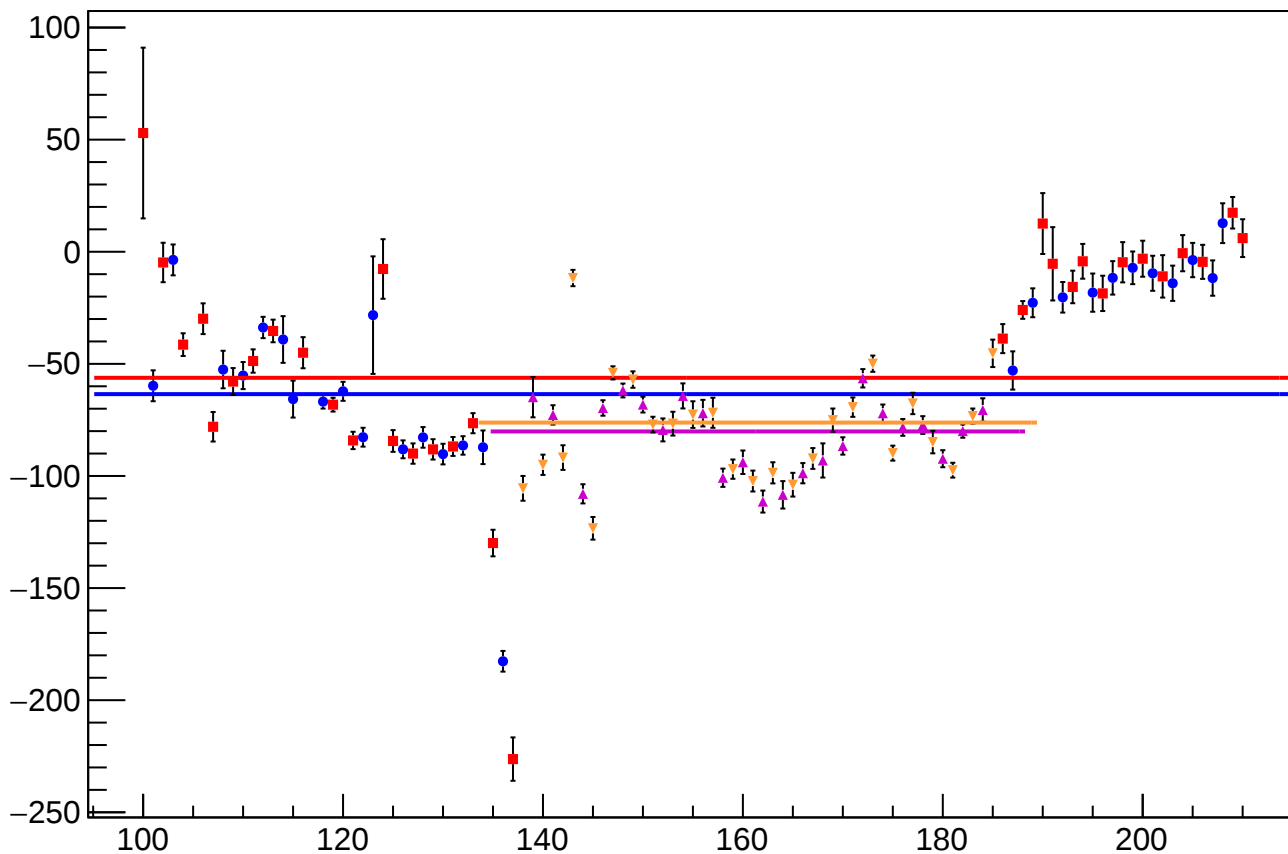
Right: -173.741 ± 0.693 χ^2/NDF : 8156.3/60

In: -176.851 ± 0.735 χ^2/NDF : 6302.2/50

Out: -176.124 ± 0.658 χ^2/NDF : 10435.0/57

All: -176.447 ± 0.490 χ^2/NDF : 16737.8/108

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -63.500 ± 1.091 $\chi^2/\text{NDF}: 1428.8/27$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -56.217 ± 1.032 $\chi^2/\text{NDF}: 1412.1/32$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

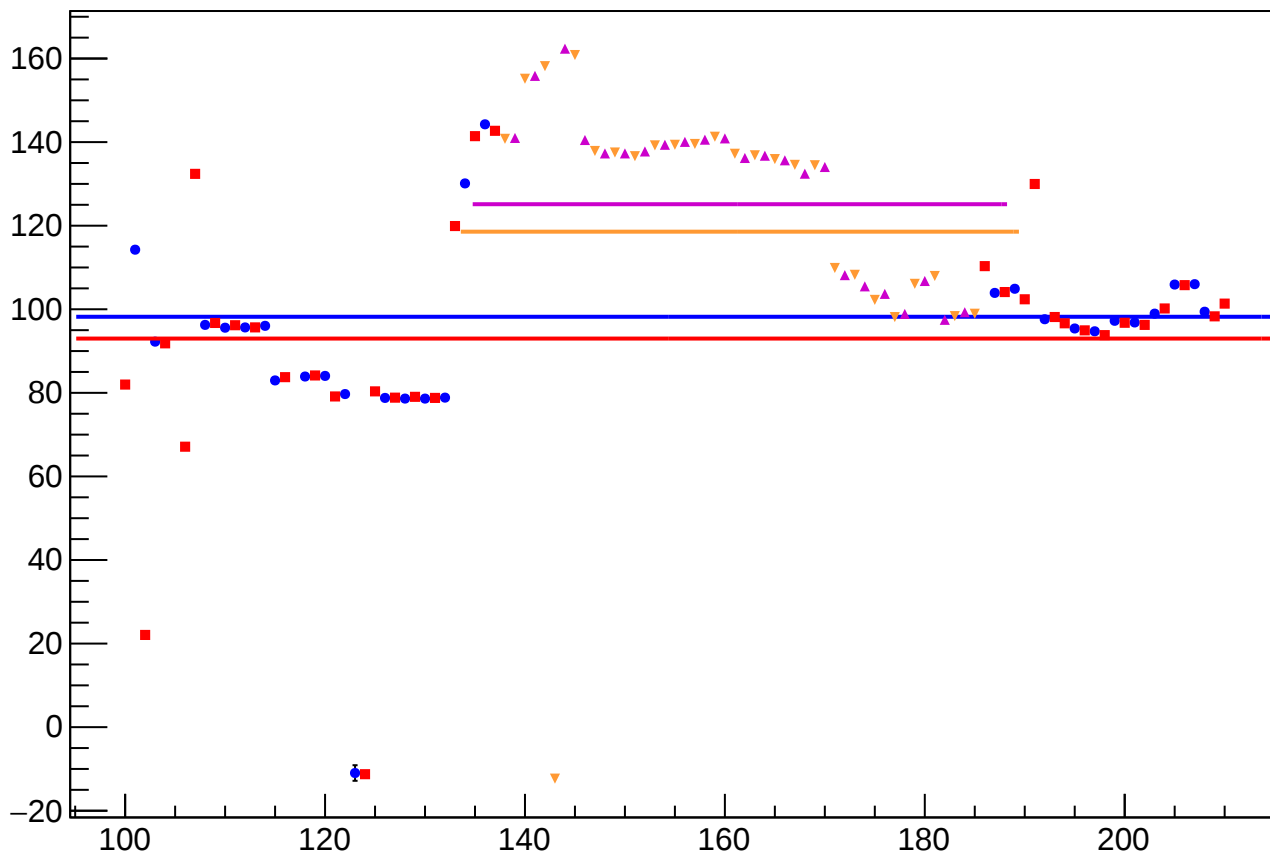
Right: -59.654 ± 0.750 $\chi^2/\text{NDF}: 2864.5/60$

In: -73.508 ± 0.689 $\chi^2/\text{NDF}: 1852.0/50$

Out: -68.028 ± 0.659 $\chi^2/\text{NDF}: 2434.6/57$

All: -70.647 ± 0.476 $\chi^2/\text{NDF}: 4319.6/108$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.205 $\pm$ 0.055 χ^2/NDF : 96089.3/27

Left Out: 118.569 $\pm$ 0.040 χ^2/NDF : 728689.7/24

Right Out: 92.990 $\pm$ 0.051 χ^2/NDF : 243930.9/32

Left In: 125.139 $\pm$ 0.041 χ^2/NDF : 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2/NDF : 962526.8/47

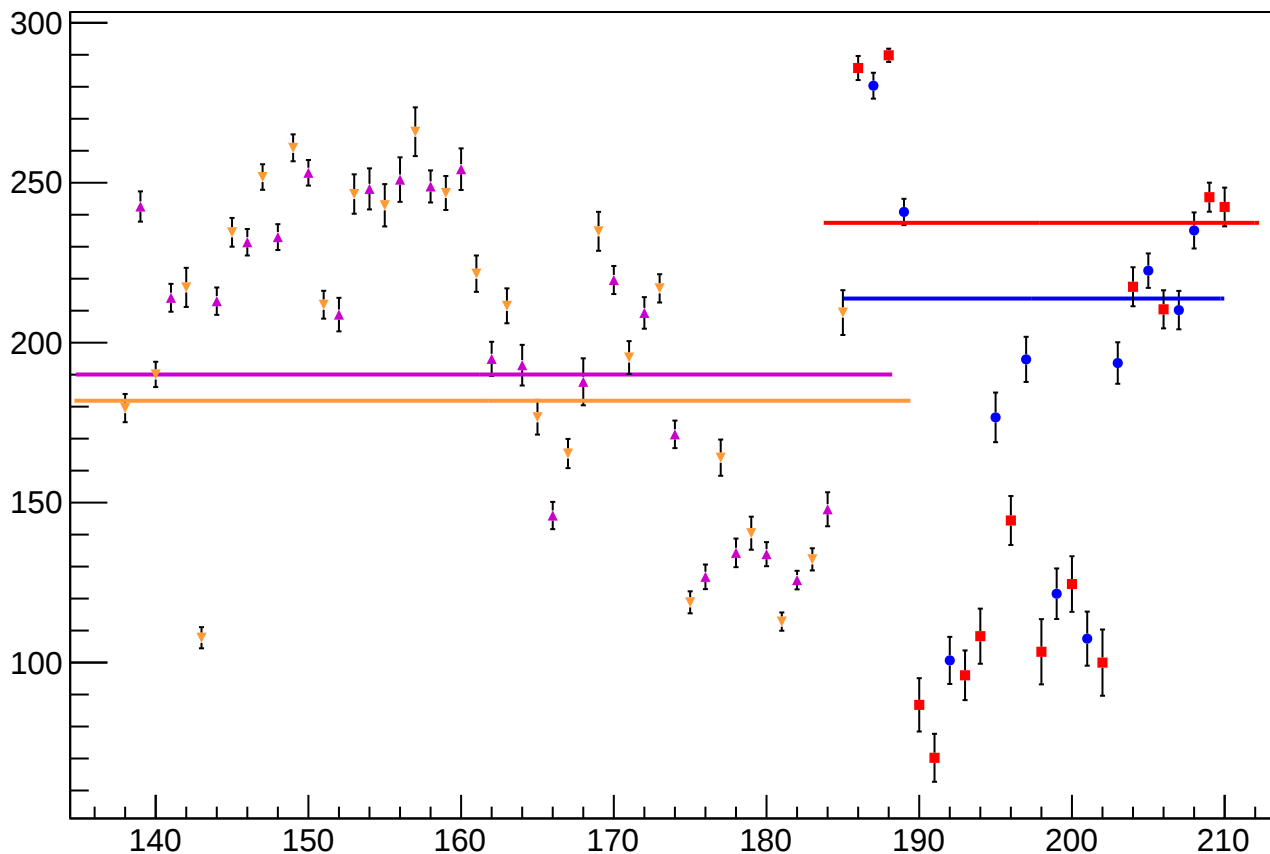
Right: 95.380 $\pm$ 0.037 χ^2/NDF : 344899.6/60

In: 115.419 $\pm$ 0.033 χ^2/NDF : 470631.1/50

Out: 108.570 $\pm$ 0.032 χ^2/NDF : 1128598.5/57

All: 111.846 $\pm$ 0.023 χ^2/NDF : 1621693.4/108

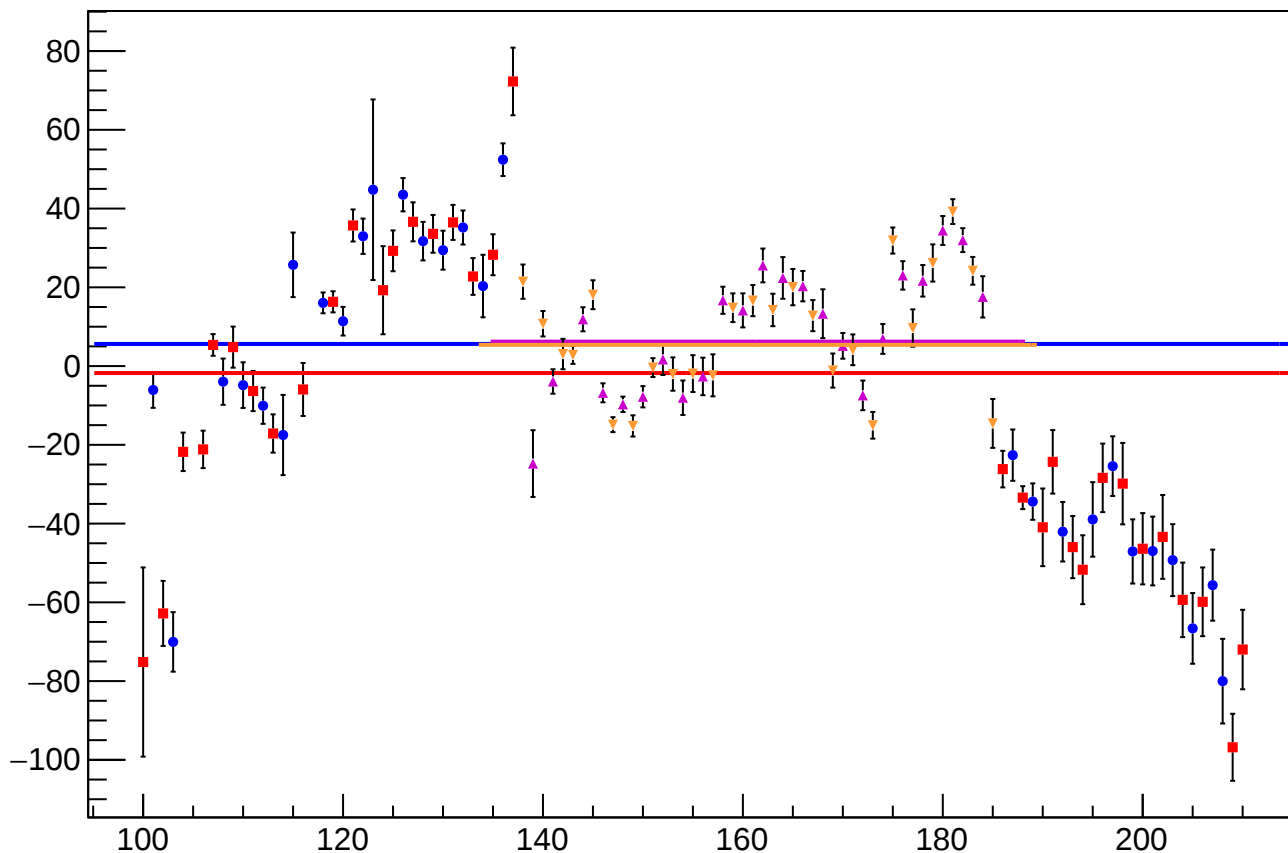
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 213.795 $\pm$ 1.760 χ^2 /NDF: 901.6/10
 Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24
 Right Out: 237.465 $\pm$ 1.352 χ^2 /NDF: 2888.3/13
 Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47
 Right: 228.680 $\pm$ 1.072 χ^2 /NDF: 3903.6/24
 In: 195.429 $\pm$ 0.838 χ^2 /NDF:3480.7/33
 Out: 199.271 $\pm$ 0.757 χ^2 /NDF:7353.1/38
 All: 197.545 $\pm$ 0.562 χ^2 /NDF: 10845.4/72

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.621 $\pm$ 1.041 χ^2 /NDF: 963.9/27

Left Out: 5.394 $\pm$ 0.688 χ^2 /NDF:526.5/24

Right Out: -1.769 $\pm$ 0.928 χ^2 /NDF: 1155.2/32

Left In: 6.206 $\pm$ 0.732 χ^2 /NDF:407.5/22

Left: 5.775 $\pm$ 0.501 χ^2 /NDF: 934.7/47

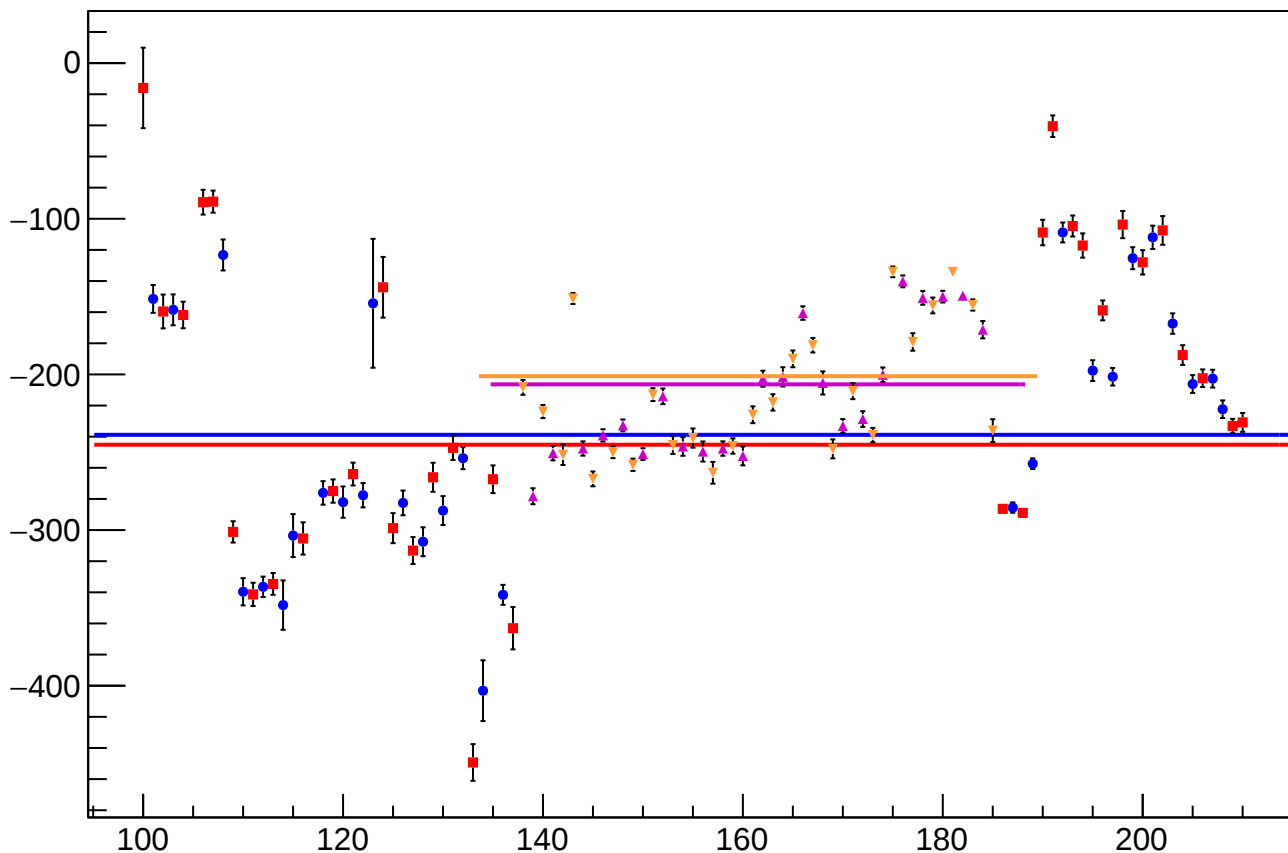
Right: 1.503 $\pm$ 0.693 χ^2 /NDF: 2147.2/60

In: 6.013 $\pm$ 0.599 χ^2 /NDF:1371.6/50

Out: 2.853 $\pm$ 0.553 χ^2 /NDF:1720.1/57

All: 4.307 $\pm$ 0.406 χ^2 /NDF: 3106.8/108

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.806 ± 1.274 χ^2/NDF : 2700.6/27

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -245.173 ± 1.006 χ^2/NDF : 5835.3/32

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

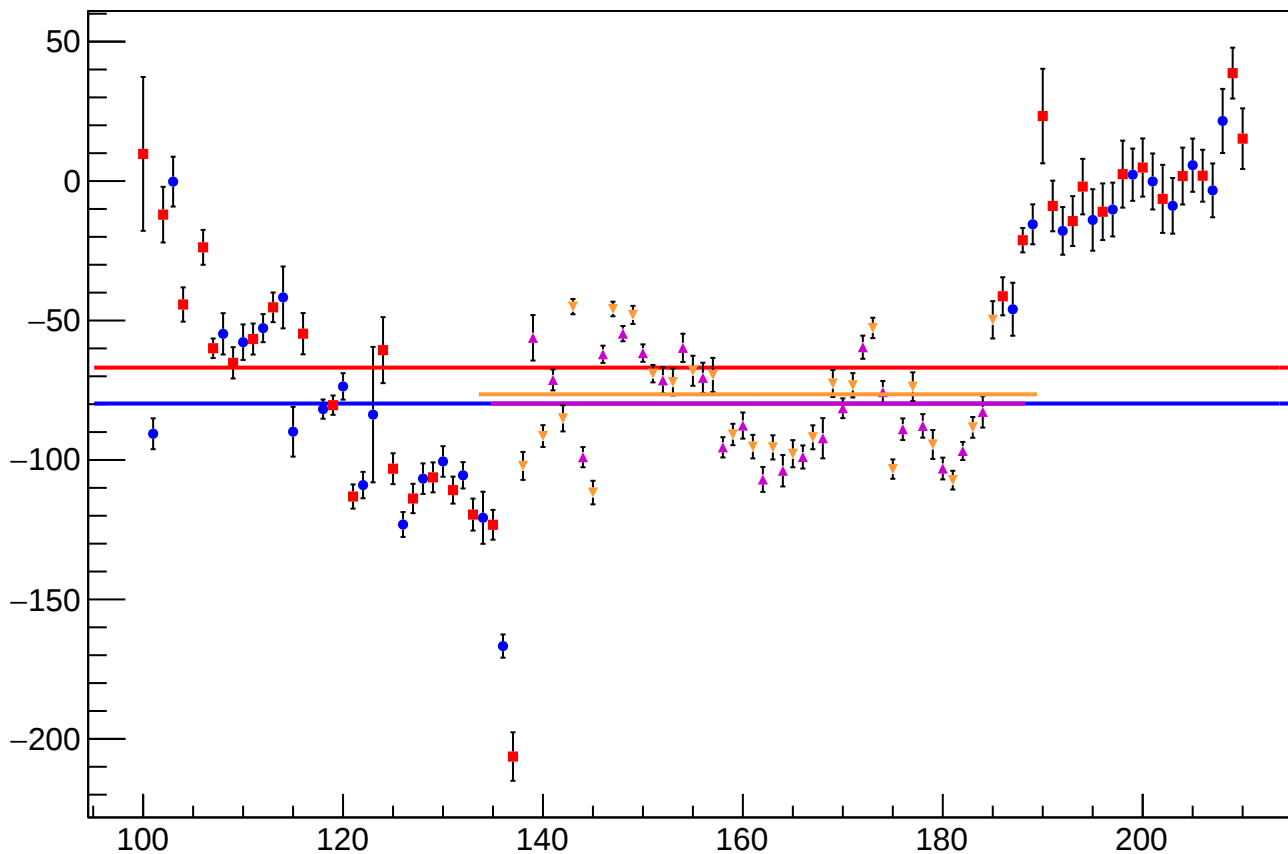
Right: -242.727 ± 0.789 χ^2/NDF : 8551.3/60

In: -217.963 ± 0.761 χ^2/NDF : 5228.8/50

Out: -221.146 ± 0.678 χ^2/NDF : 9369.5/57

All: -219.738 ± 0.506 χ^2/NDF : 14608.1/108

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -79.767 ± 1.215 $\chi^2/\text{NDF}: 1450.4/27$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -66.889 ± 1.106 $\chi^2/\text{NDF}: 1661.8/32$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

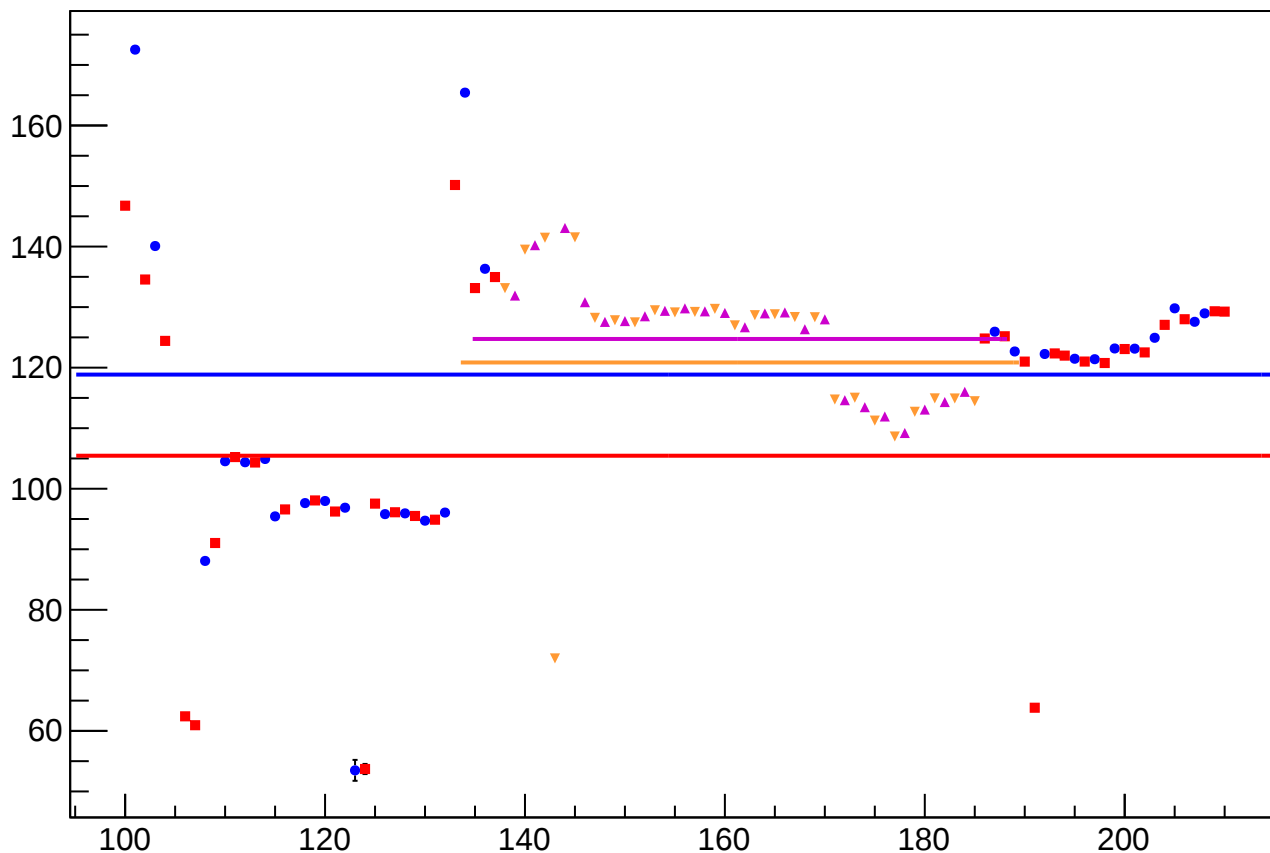
Right: -72.727 ± 0.818 $\chi^2/\text{NDF}: 3173.7/60$

In: -79.784 ± 0.691 $\chi^2/\text{NDF}: 1862.7/50$

Out: -73.191 ± 0.646 $\chi^2/\text{NDF}: 2492.5/57$

All: -76.269 ± 0.472 $\chi^2/\text{NDF}: 4403.7/108$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.854 $\pm$ 0.063 χ^2 /NDF: 109914.9/27

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 105.452 $\pm$ 0.054 χ^2 /NDF: 248340.6/32

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

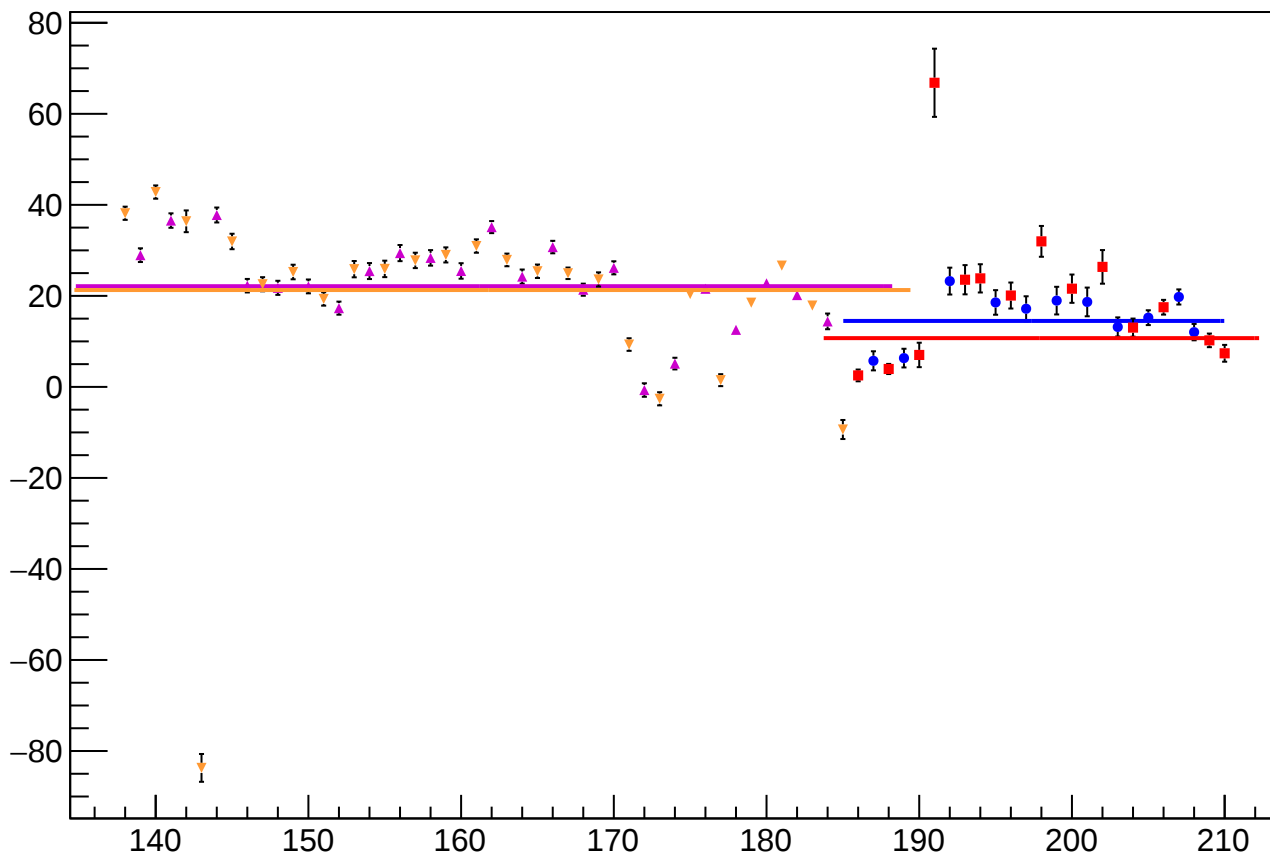
Right: 111.206 $\pm$ 0.041 χ^2 /NDF: 384419.6/60

In: 123.077 $\pm$ 0.033 χ^2 /NDF:167556.2/50

Out: 115.780 $\pm$ 0.031 χ^2 /NDF:485079.7/57

All: 119.192 $\pm$ 0.023 χ^2 /NDF: 678277.6/108

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.495 $\pm$ 0.655 χ^2 /NDF: 61.7/10

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 10.716 $\pm$ 0.533 χ^2 /NDF: 271.6/13

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

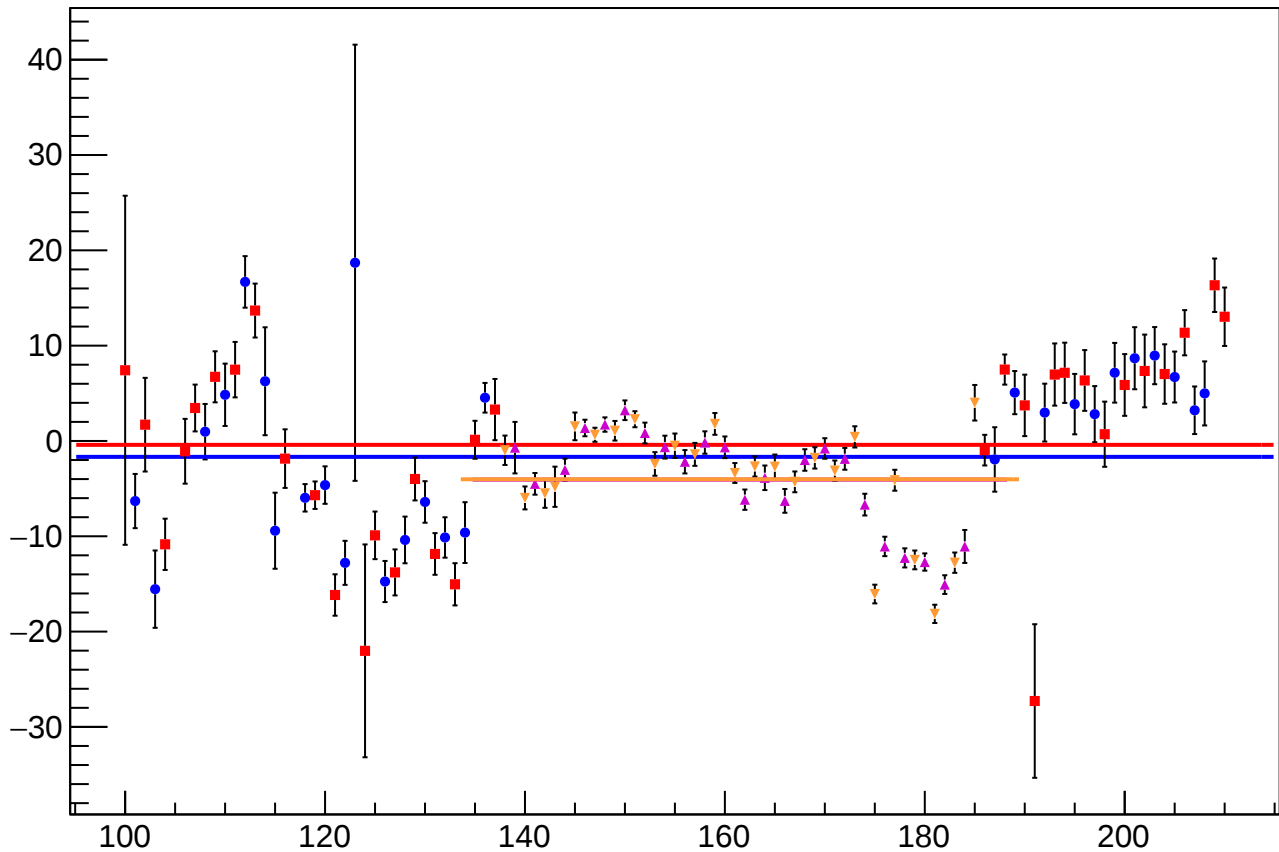
Right: 12.222 $\pm$ 0.413 χ^2 /NDF: 353.3/24

In: 20.907 $\pm$ 0.262 χ^2 /NDF:1076.2/33

Out: 18.964 $\pm$ 0.250 χ^2 /NDF:3179.1/38

All: 19.889 $\pm$ 0.181 χ^2 /NDF: 4284.1/72

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.669 ± 0.489 $\chi^2/\text{NDF}: 263.0/27$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -0.408 ± 0.453 $\chi^2/\text{NDF}: 393.9/32$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

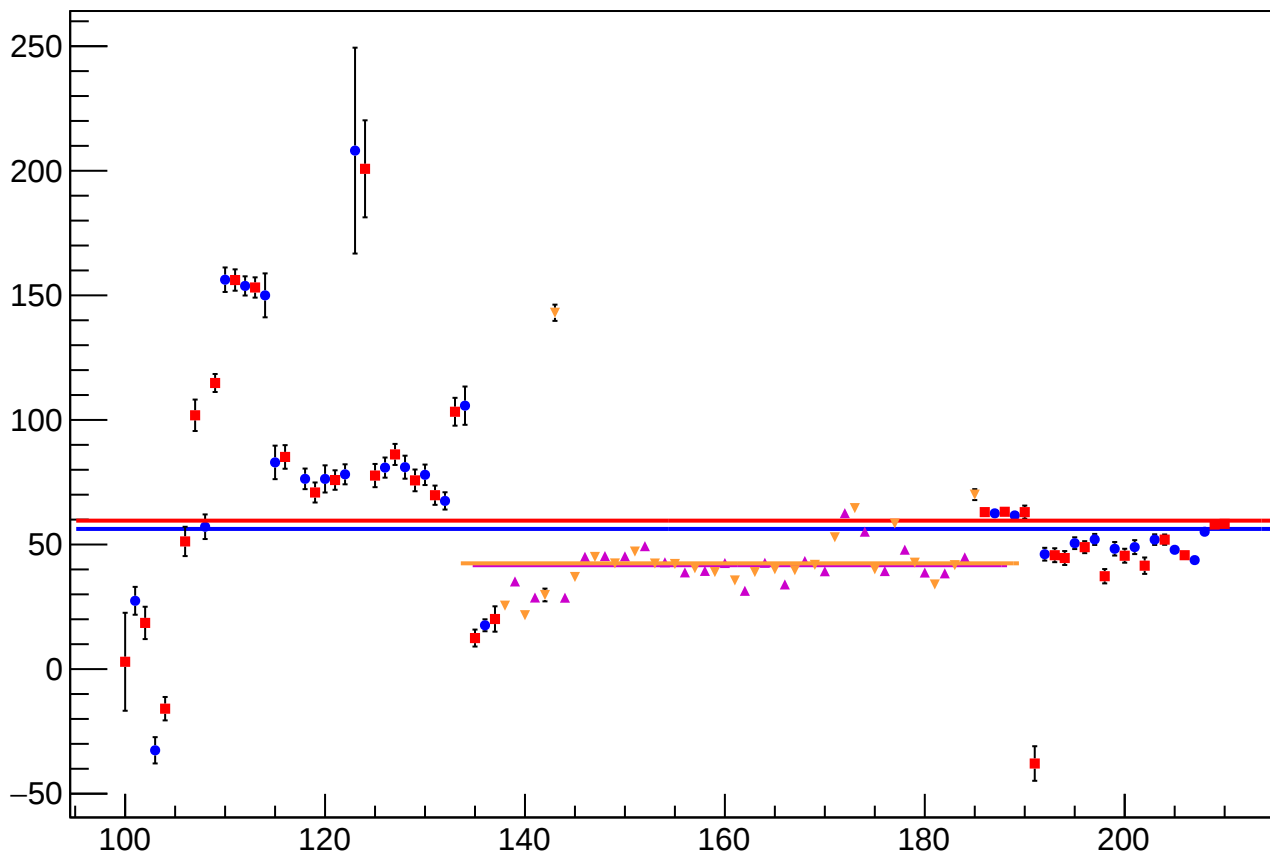
Right: -0.991 ± 0.332 $\chi^2/\text{NDF}: 660.5/60$

In: -3.631 ± 0.207 $\chi^2/\text{NDF}: 859.9/50$

Out: -3.316 ± 0.200 $\chi^2/\text{NDF}: 1179.2/57$

All: -3.469 ± 0.144 $\chi^2/\text{NDF}: 2040.3/108$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.254+/-0.529 χ^2/NDF : 2134.3/27

Left Out: 42.452+/-0.282 χ^2/NDF : 2016.0/24

Right Out: 59.585+/-0.432 χ^2/NDF : 2629.5/32

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

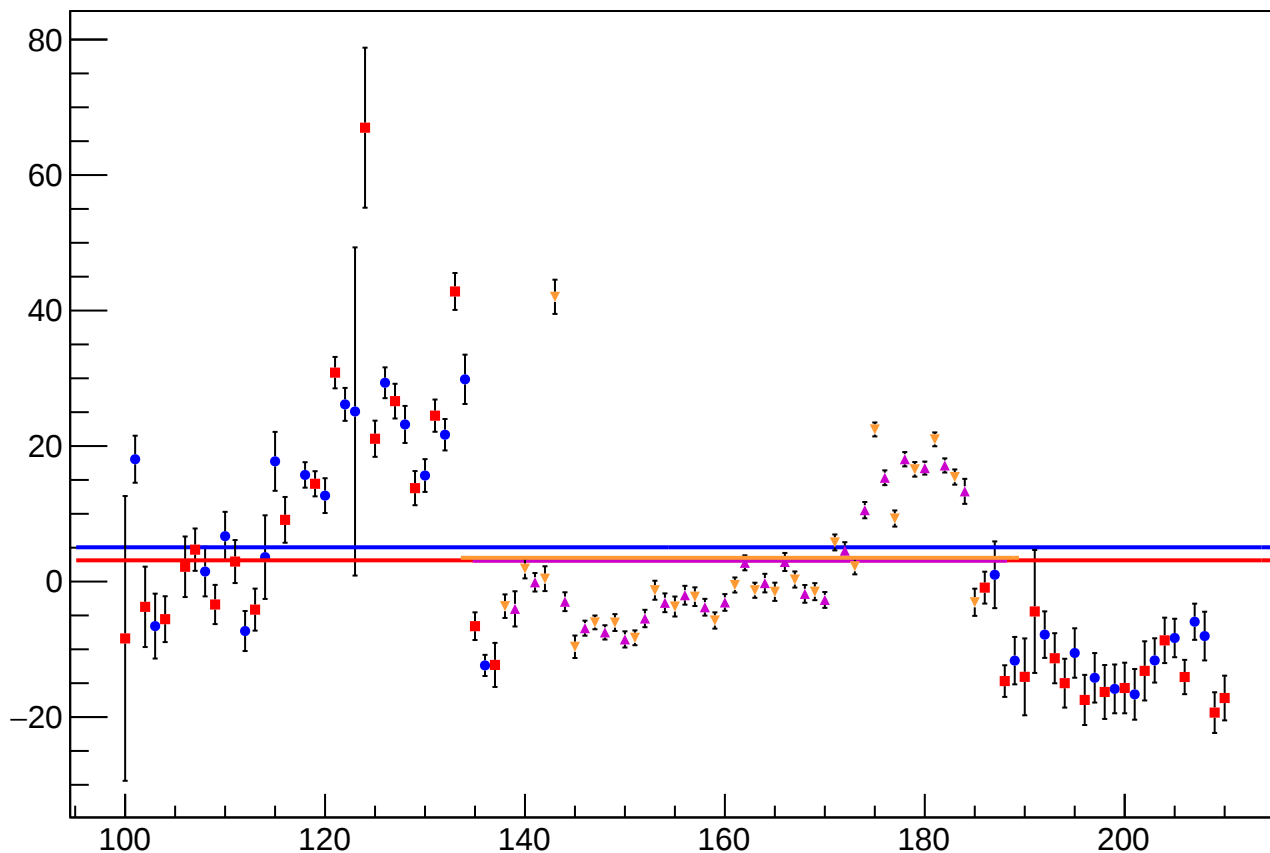
Right: 58.251+/-0.335 χ^2/NDF : 4787.6/60

In: 44.958+/-0.250 χ^2/NDF : 3353.1/50

Out: 47.569+/-0.236 χ^2/NDF : 5748.4/57

All: 46.339+/-0.172 χ^2/NDF : 9159.1/108

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.060 $\pm$ 0.560 χ^2 /NDF: 793.4/27

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 3.134 $\pm$ 0.533 χ^2 /NDF: 1075.3/32

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

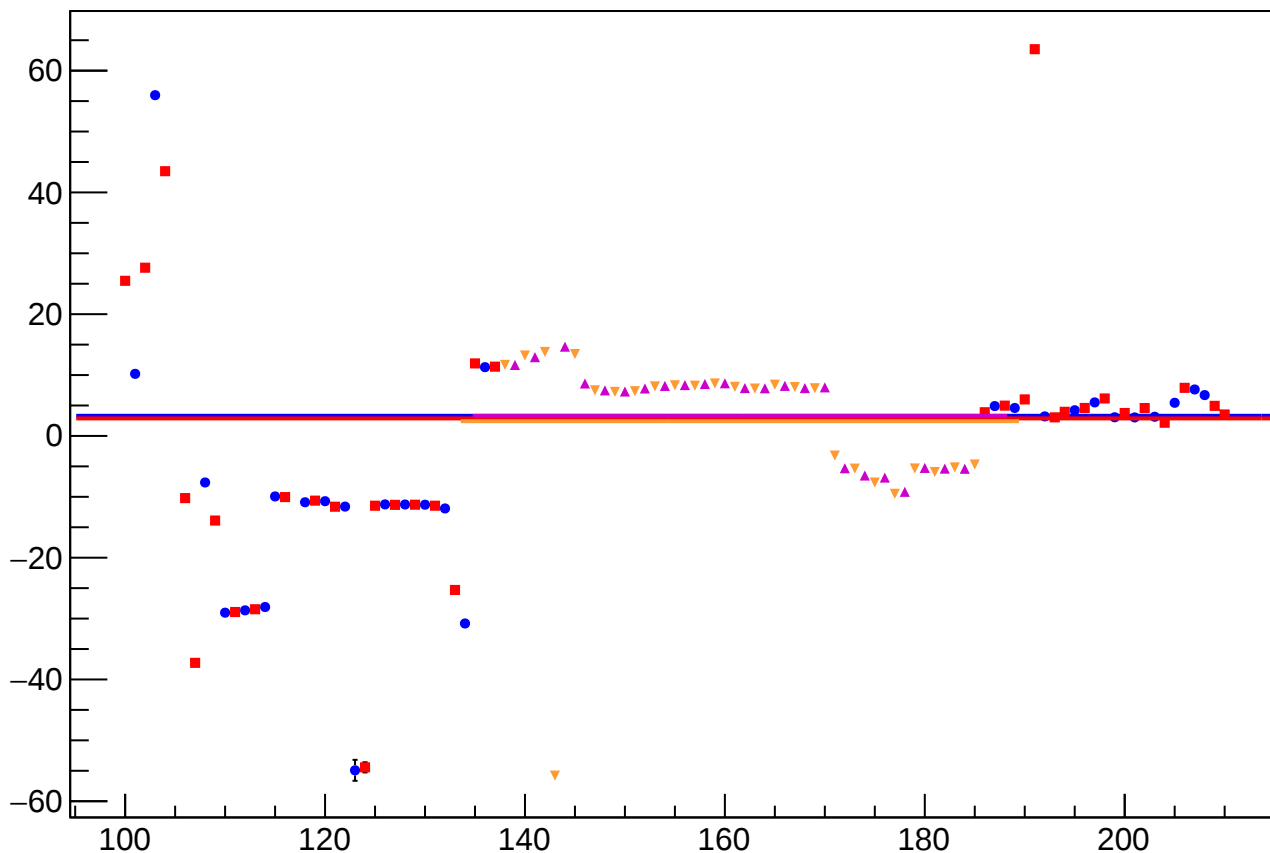
Right: 4.048 $\pm$ 0.386 χ^2 /NDF: 1875.0/60

In: 3.426 $\pm$ 0.234 χ^2 /NDF:2069.5/50

Out: 3.437 $\pm$ 0.228 χ^2 /NDF:2767.0/57

All: 3.431 $\pm$ 0.163 χ^2 /NDF: 4836.5/108

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.308 $\pm$ 0.026 χ^2 /NDF: 362267.9/27

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.879 $\pm$ 0.025 χ^2 /NDF: 434499.5/32

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

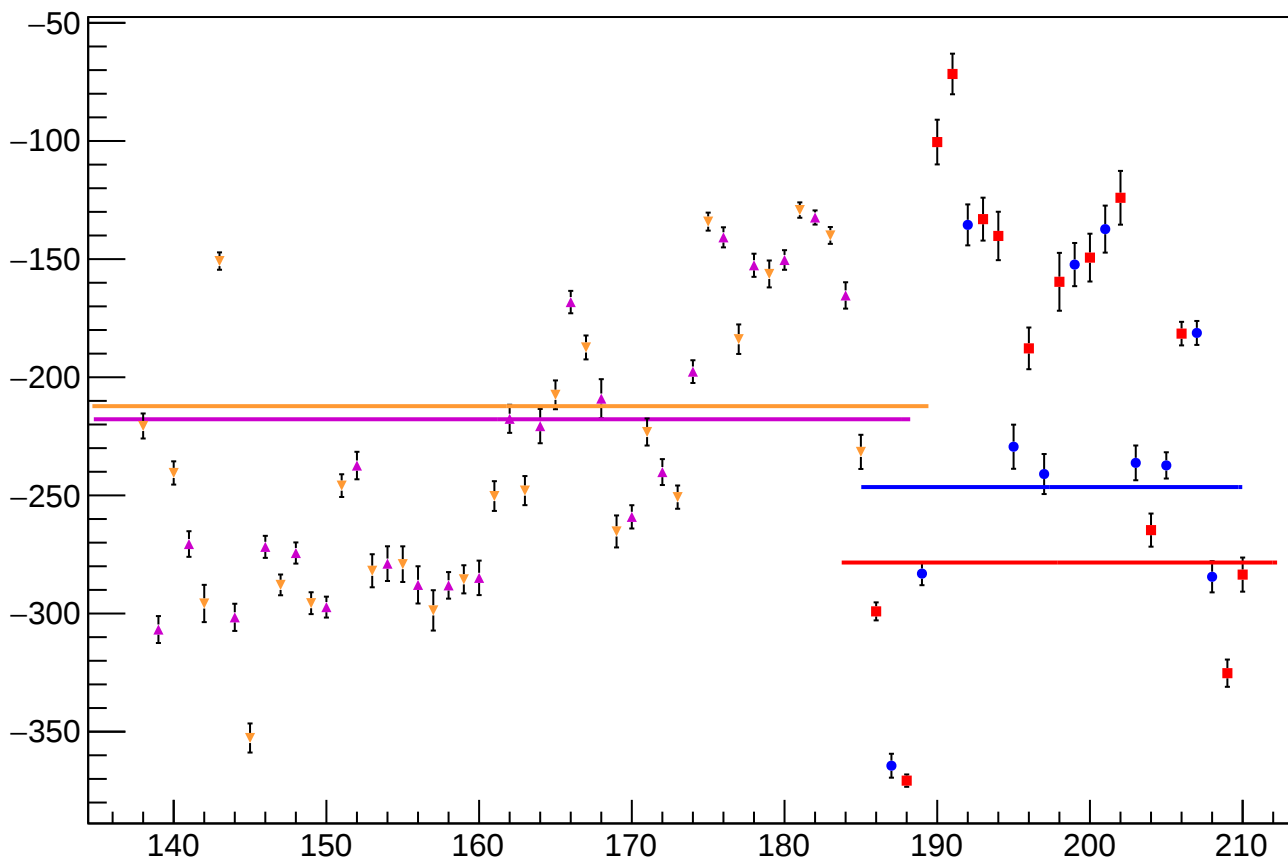
Right: 3.084 $\pm$ 0.018 χ^2 /NDF: 796908.2/60

In: 3.295 $\pm$ 0.011 χ^2 /NDF: 766592.0/50

Out: 2.505 $\pm$ 0.010 χ^2 /NDF: 1051152.8/57

All: 2.894 $\pm$ 0.007 χ^2 /NDF: 1820538.0/108

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -246.477 ± 1.983 $\chi^2/\text{NDF}: 1196.2/10$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -278.416 ± 1.564 $\chi^2/\text{NDF}: 3643.2/13$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

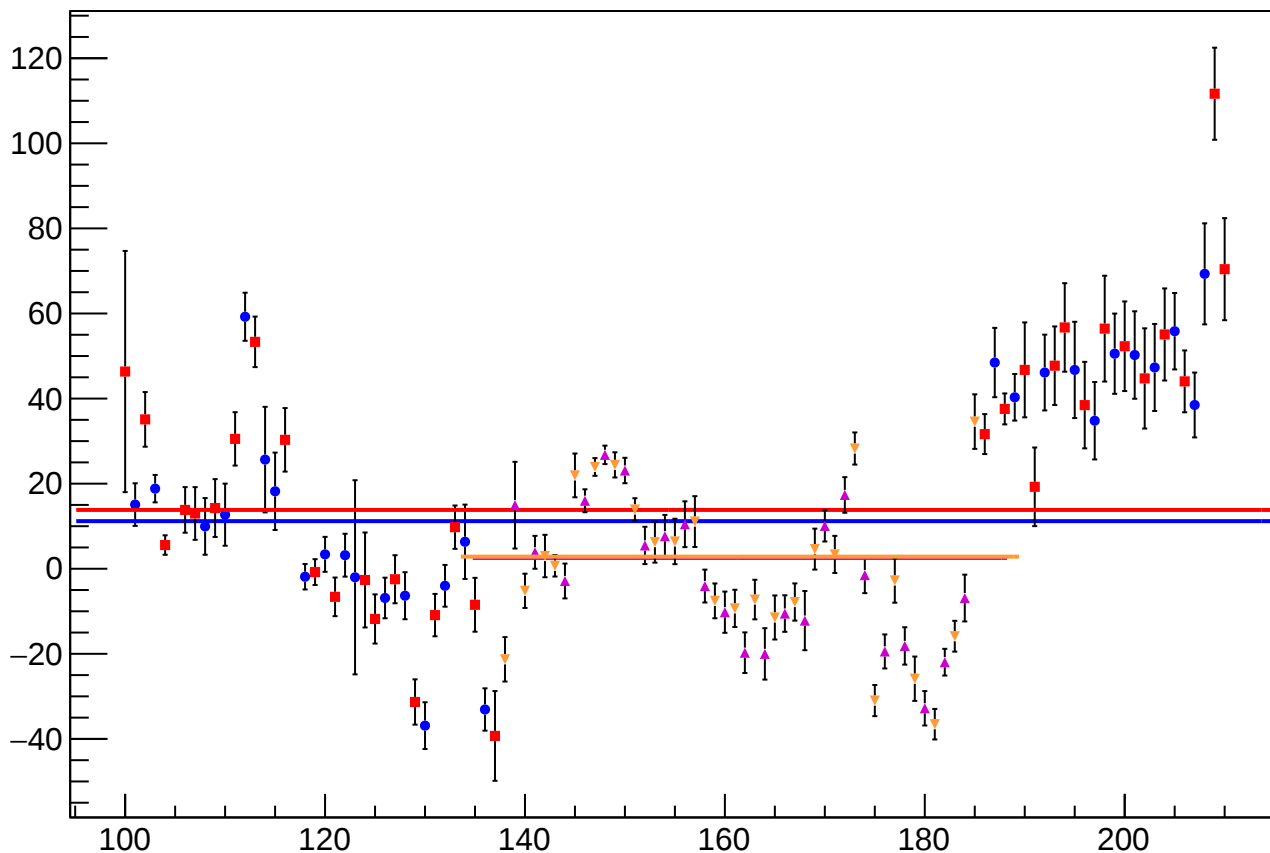
Right: -266.167 ± 1.228 $\chi^2/\text{NDF}: 4999.3/24$

In: -224.218 ± 0.940 $\chi^2/\text{NDF}: 4807.5/33$

Out: -232.230 ± 0.860 $\chi^2/\text{NDF}: 8767.7/38$

All: -228.577 ± 0.634 $\chi^2/\text{NDF}: 13614.7/72$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.189 ± 1.124 $\chi^2/\text{NDF}: 483.0/27$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 13.826 ± 1.009 $\chi^2/\text{NDF}: 560.3/32$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

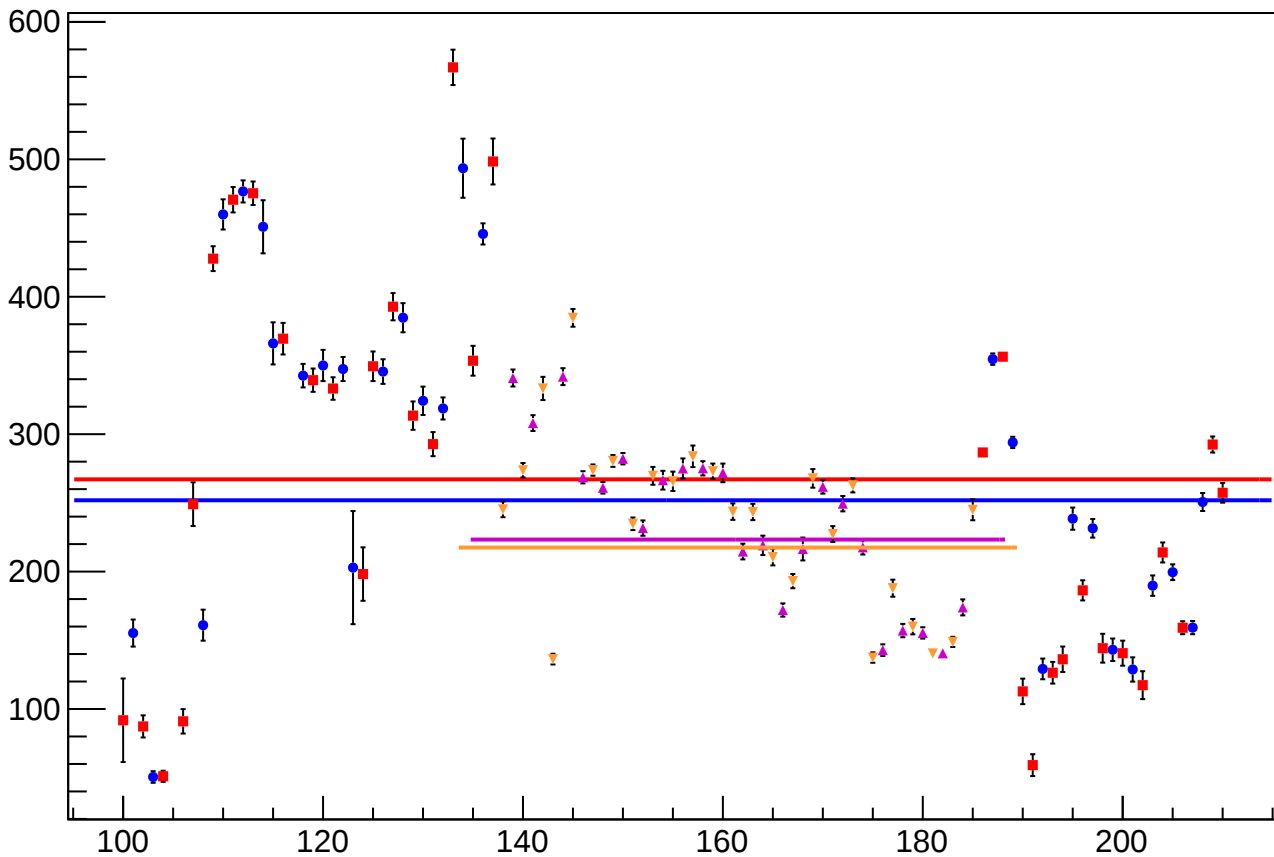
Right: 12.649 ± 0.751 $\chi^2/\text{NDF}: 1046.3/60$

In: 5.558 ± 0.664 $\chi^2/\text{NDF}: 995.2/50$

Out: 6.919 ± 0.614 $\chi^2/\text{NDF}: 1216.9/57$

All: 6.291 ± 0.451 $\chi^2/\text{NDF}: 2214.4/108$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 251.890 ± 1.388 $\chi^2/\text{NDF}: 7067.8/27$

Left Out: 217.484 ± 1.032 $\chi^2/\text{NDF}: 3769.5/24$

Right Out: 267.117 ± 1.131 $\chi^2/\text{NDF}: 11051.8/32$

Left In: 223.309 ± 1.062 $\chi^2/\text{NDF}: 3378.0/22$

Left: 220.314 ± 0.740 $\chi^2/\text{NDF}: 7163.0/47$

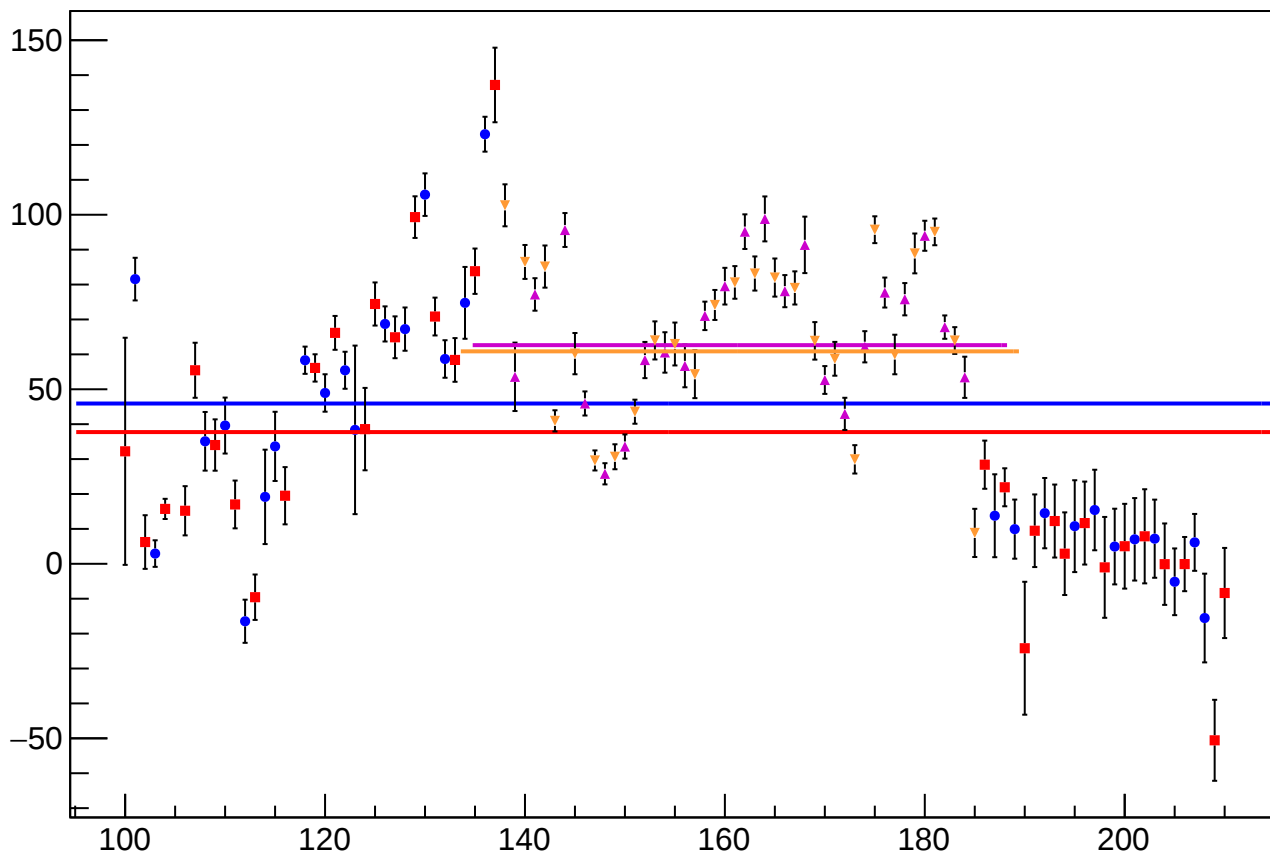
Right: 261.041 ± 0.877 $\chi^2/\text{NDF}: 18191.9/60$

In: 233.865 ± 0.843 $\chi^2/\text{NDF}: 10713.3/50$

Out: 240.048 ± 0.762 $\chi^2/\text{NDF}: 15872.1/57$

All: 237.267 ± 0.566 $\chi^2/\text{NDF}: 26615.0/108$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.918 ± 1.311 $\chi^2/\text{NDF}: 827.7/27$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 37.737 ± 1.207 $\chi^2/\text{NDF}: 733.4/32$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

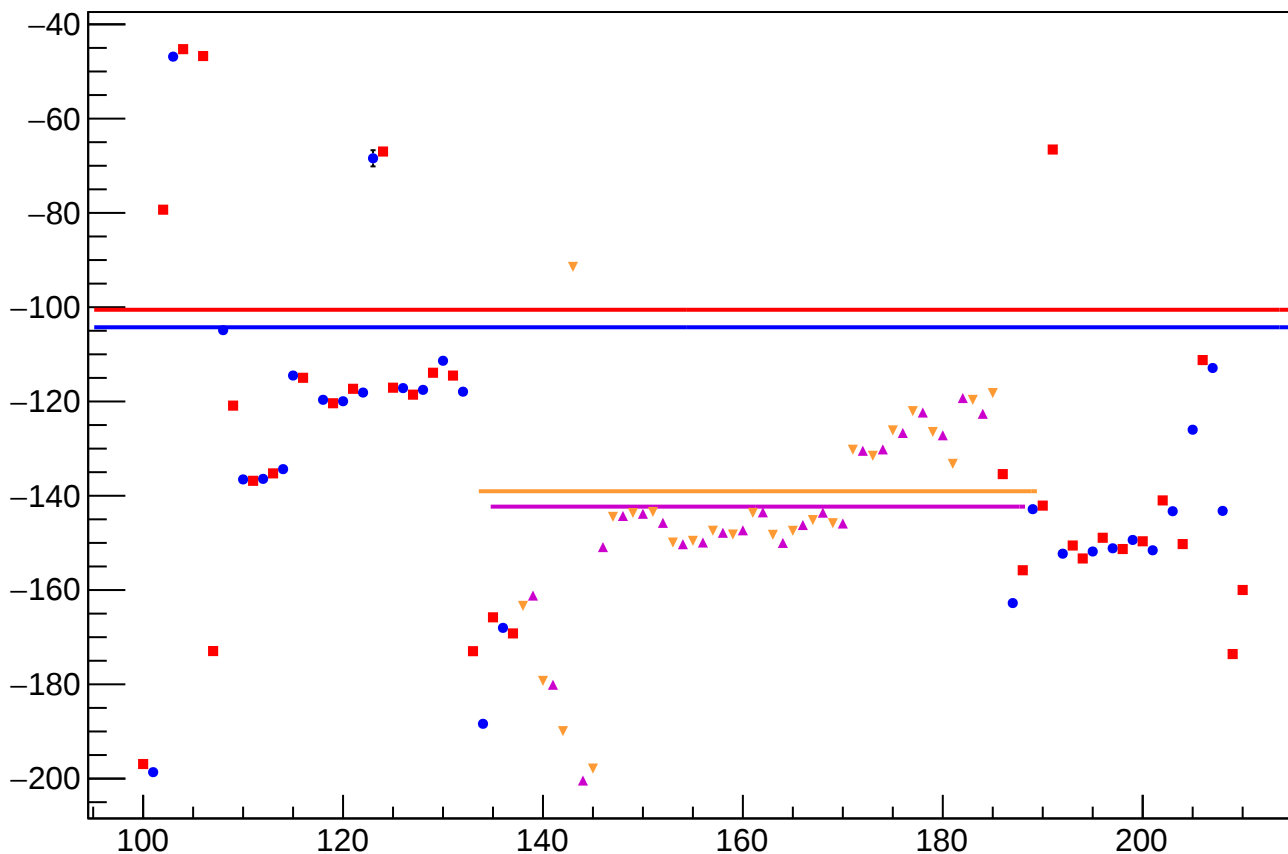
Right: 41.491 ± 0.888 $\chi^2/\text{NDF}: 1582.1/60$

In: 56.941 ± 0.765 $\chi^2/\text{NDF}: 1450.4/50$

Out: 52.643 ± 0.720 $\chi^2/\text{NDF}: 1701.5/57$

All: 54.660 ± 0.524 $\chi^2/\text{NDF}: 3168.6/108$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -104.259+/-0.058 χ^2/NDF : 699283.0/27

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -100.545+/-0.055 χ^2/NDF : 757317.0/32

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

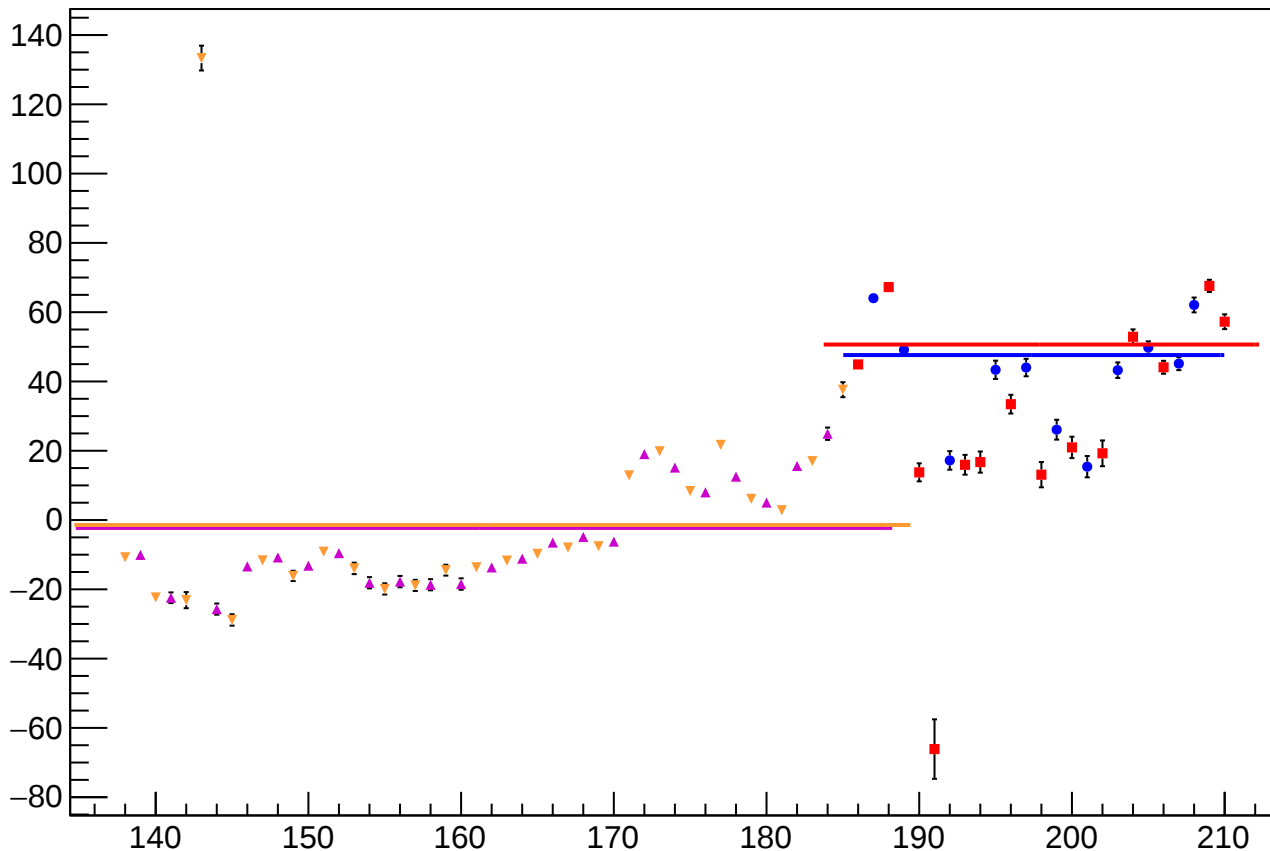
Right: -102.280+/-0.040 χ^2/NDF : 1458758.1/60

In: -128.486+/-0.035 χ^2/NDF : 1113255.7/50

Out: -124.369+/-0.034 χ^2/NDF : 1322729.2/57

All: -126.341+/-0.024 χ^2/NDF : 2443121.4/100

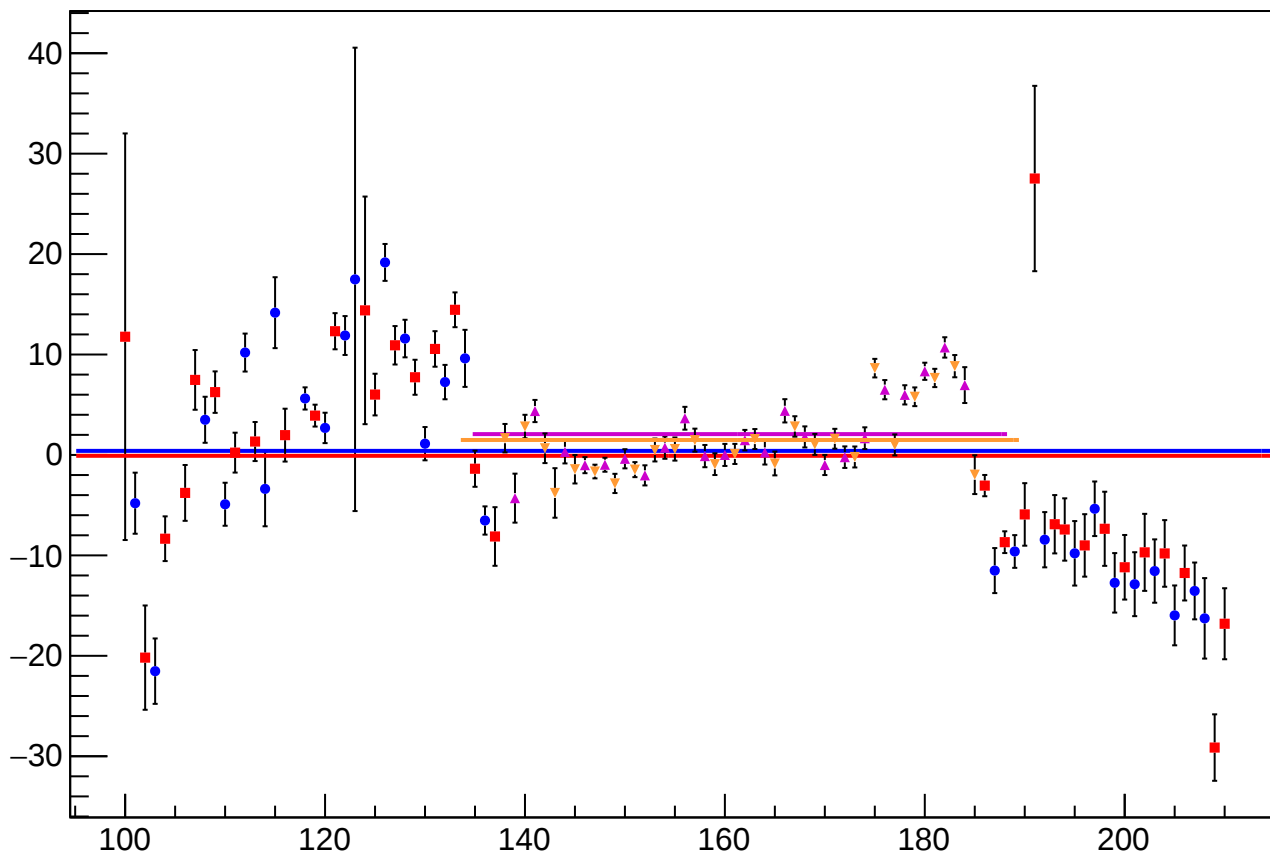
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 47.622 ± 0.613 $\chi^2/\text{NDF}: 491.7/10$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 50.657 ± 0.455 $\chi^2/\text{NDF}: 1585.5/13$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 49.580 ± 0.365 $\chi^2/\text{NDF}: 2093.0/24$
 In: 5.863 ± 0.248 $\chi^2/\text{NDF}: 8548.9/33$
 Out: 11.967 ± 0.231 $\chi^2/\text{NDF}: 15664.2/38$
 All: 9.132 ± 0.169 $\chi^2/\text{NDF}: 24538.4/72$

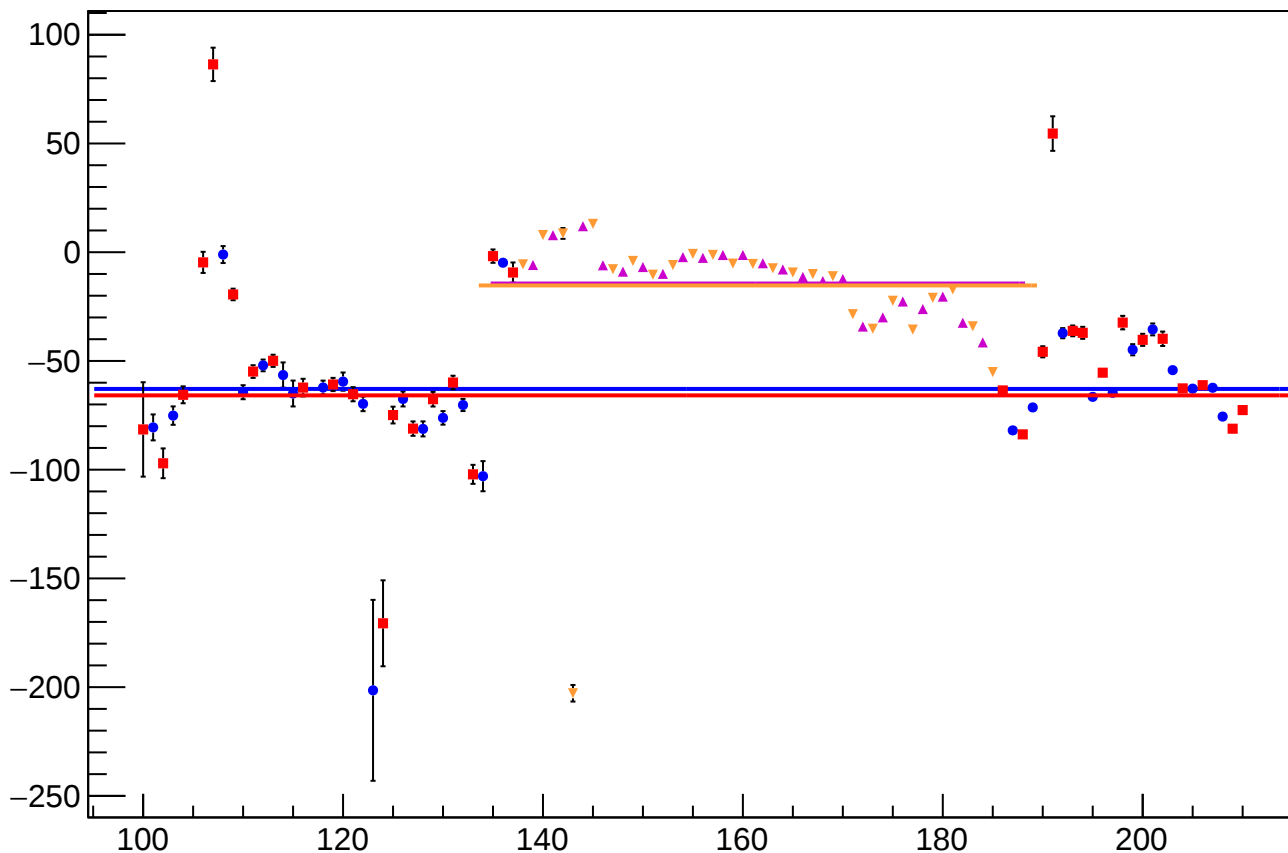
reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.406 ± 0.407 $\chi^2/\text{NDF}: 565.2/27$
 Left Out: 1.491 ± 0.210 $\chi^2/\text{NDF}: 259.1/24$
 Right Out: -0.084 ± 0.371 $\chi^2/\text{NDF}: 537.9/32$
 Left In: 2.075 ± 0.215 $\chi^2/\text{NDF}: 274.6/22$

Left: 1.776 ± 0.150 $\chi^2/\text{NDF}: 537.4/47$
 Right: 0.138 ± 0.274 $\chi^2/\text{NDF}: 1103.9/60$
 In: 1.709 ± 0.190 $\chi^2/\text{NDF}: 852.9/50$
 Out: 1.108 ± 0.183 $\chi^2/\text{NDF}: 810.7/57$
 All: 1.397 ± 0.132 $\chi^2/\text{NDF}: 1668.7/108$

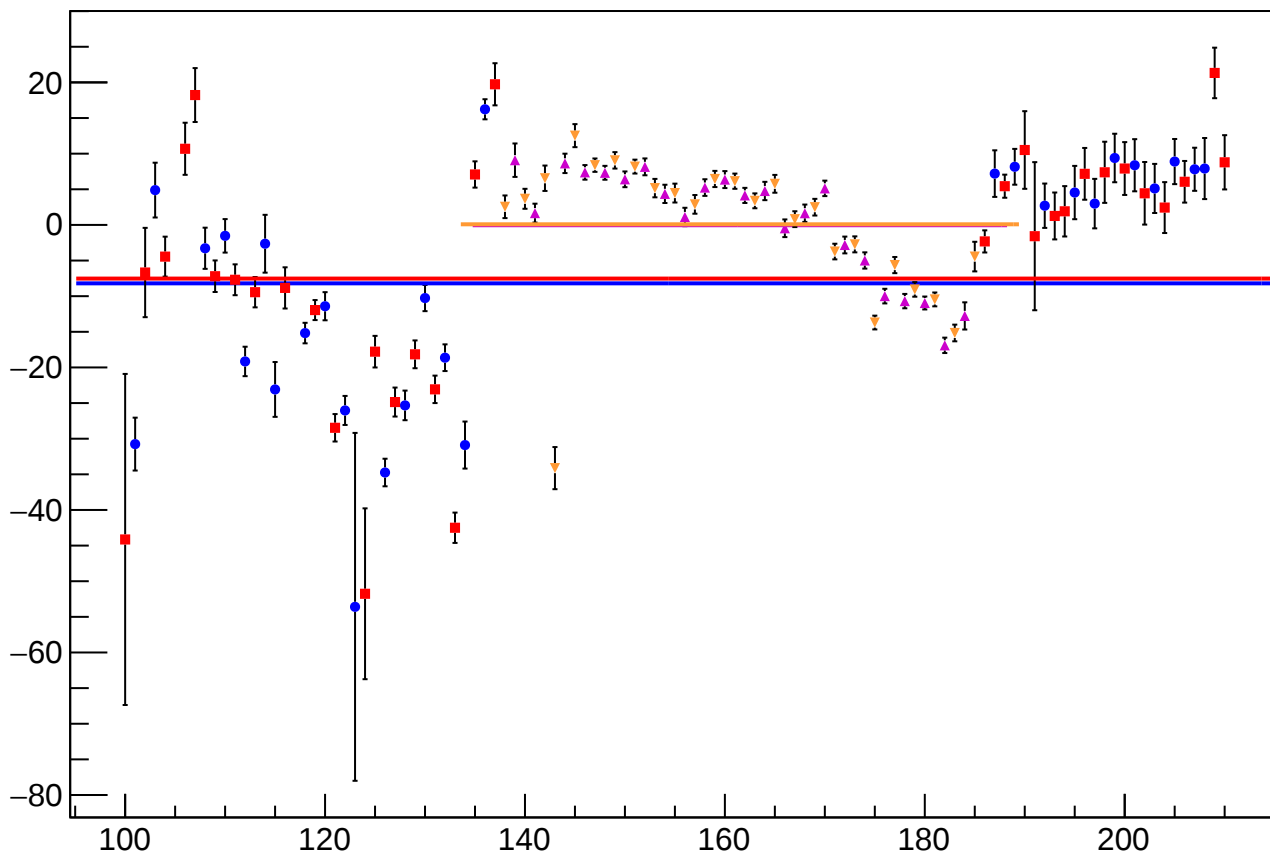
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.864 ± 0.463 $\chi^2/\text{NDF}: 1760.3/27$
 Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$
 Right Out: -65.828 ± 0.352 $\chi^2/\text{NDF}: 3396.5/32$
 Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$
 Right: -64.741 ± 0.280 $\chi^2/\text{NDF}: 5182.8/60$
 In: -26.655 ± 0.233 $\chi^2/\text{NDF}: 11989.1/50$
 Out: -33.712 ± 0.213 $\chi^2/\text{NDF}: 21307.4/57$
 All: -30.500 ± 0.157 $\chi^2/\text{NDF}: 33797.8/108$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.199 ± 0.473 χ^2/NDF : 1078.7/27

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.531 ± 0.445 χ^2/NDF : 1092.4/32

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

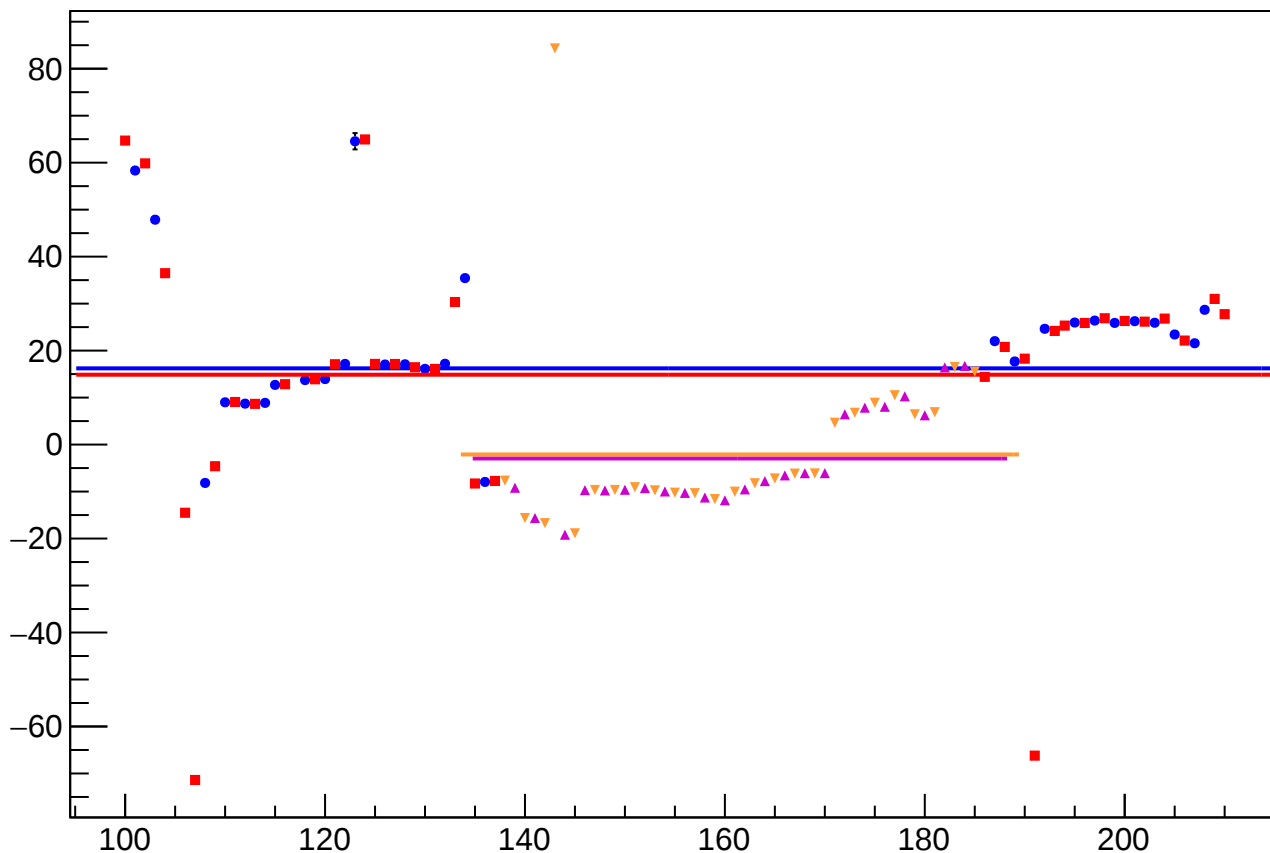
Right: -7.844 ± 0.324 χ^2/NDF : 2172.2/60

In: -1.750 ± 0.216 χ^2/NDF : 2342.4/50

Out: -1.612 ± 0.210 χ^2/NDF : 2492.7/57

All: -1.679 ± 0.151 χ^2/NDF : 4835.3/108

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.224+/-0.023 χ^2/NDF : 474987.4/27

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 14.870+/-0.023 χ^2/NDF : 763434.0/32

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

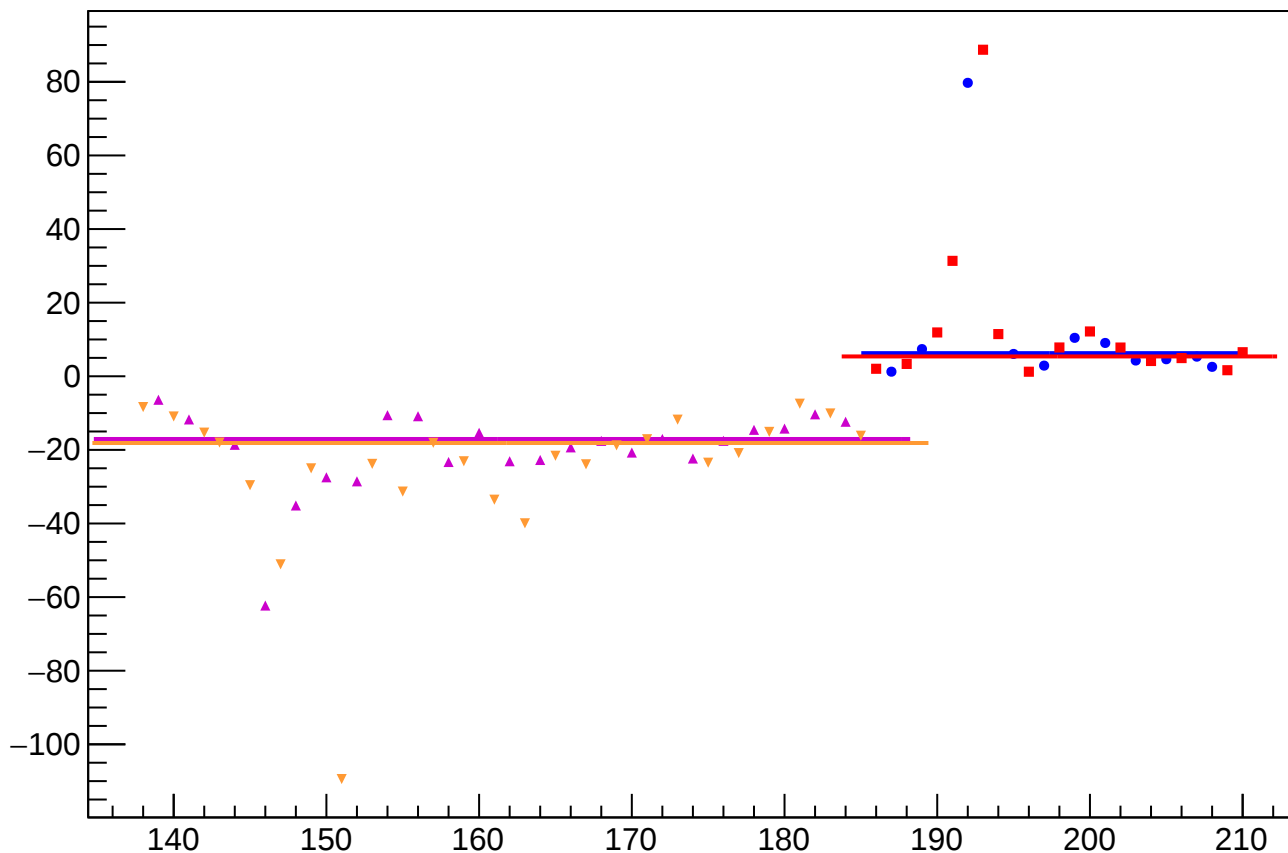
Right: 15.522+/-0.016 χ^2/NDF : 1240151.8/60

In: 0.504+/-0.010 χ^2/NDF : 1786843.2/50

Out: 1.112+/-0.010 χ^2/NDF : 2314388.6/57

All: 0.812+/-0.007 χ^2/NDF : 4103122.1/108

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.284+/-0.060 χ^2/NDF : 25777.8/10

Left Out: -18.128+/-0.039 χ^2/NDF : 88551.6/24

Right Out: 5.388+/-0.052 χ^2/NDF : 26820.0/13

Left In: -17.038+/-0.038 χ^2/NDF : 44141.1/22

Left: -17.572+/-0.027 χ^2/NDF : 133092.4/47

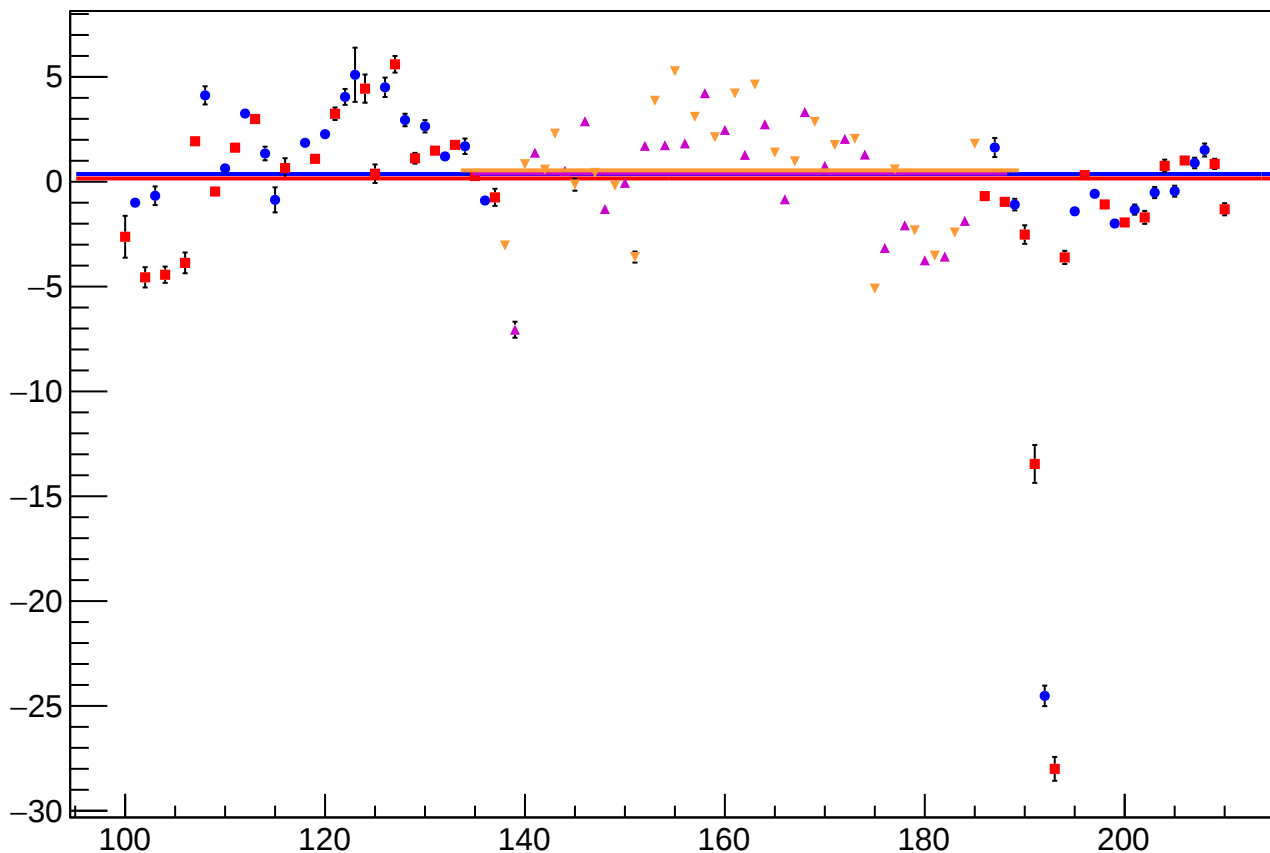
Right: 5.774+/-0.039 χ^2/NDF : 52726.4/24

In: -10.259+/-0.032 χ^2/NDF : 178527.8/33

Out: -9.659+/-0.031 χ^2/NDF : 246896.7/38

All: -9.949+/-0.022 χ^2/NDF : 425604.8/72

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.048 χ^2 /NDF: 3840.6/27

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.157 $\pm$ 0.045 χ^2 /NDF: 4298.6/32

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

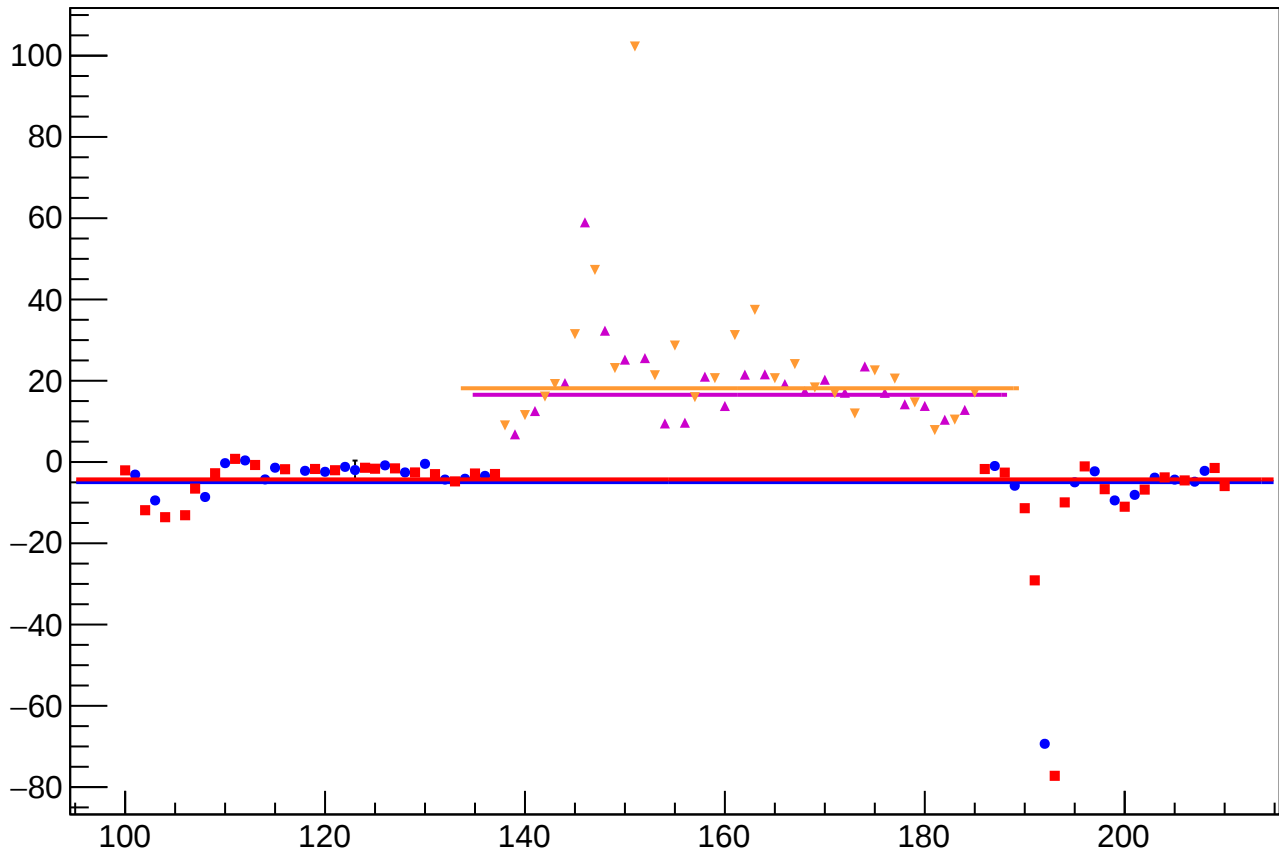
Right: 0.254 $\pm$ 0.033 χ^2 /NDF: 8149.5/60

In: 0.389 $\pm$ 0.026 χ^2 /NDF: 10076.5/50

Out: 0.410 $\pm$ 0.026 χ^2 /NDF: 11432.9/57

All: 0.399 $\pm$ 0.018 χ^2 /NDF: 21509.7/108

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



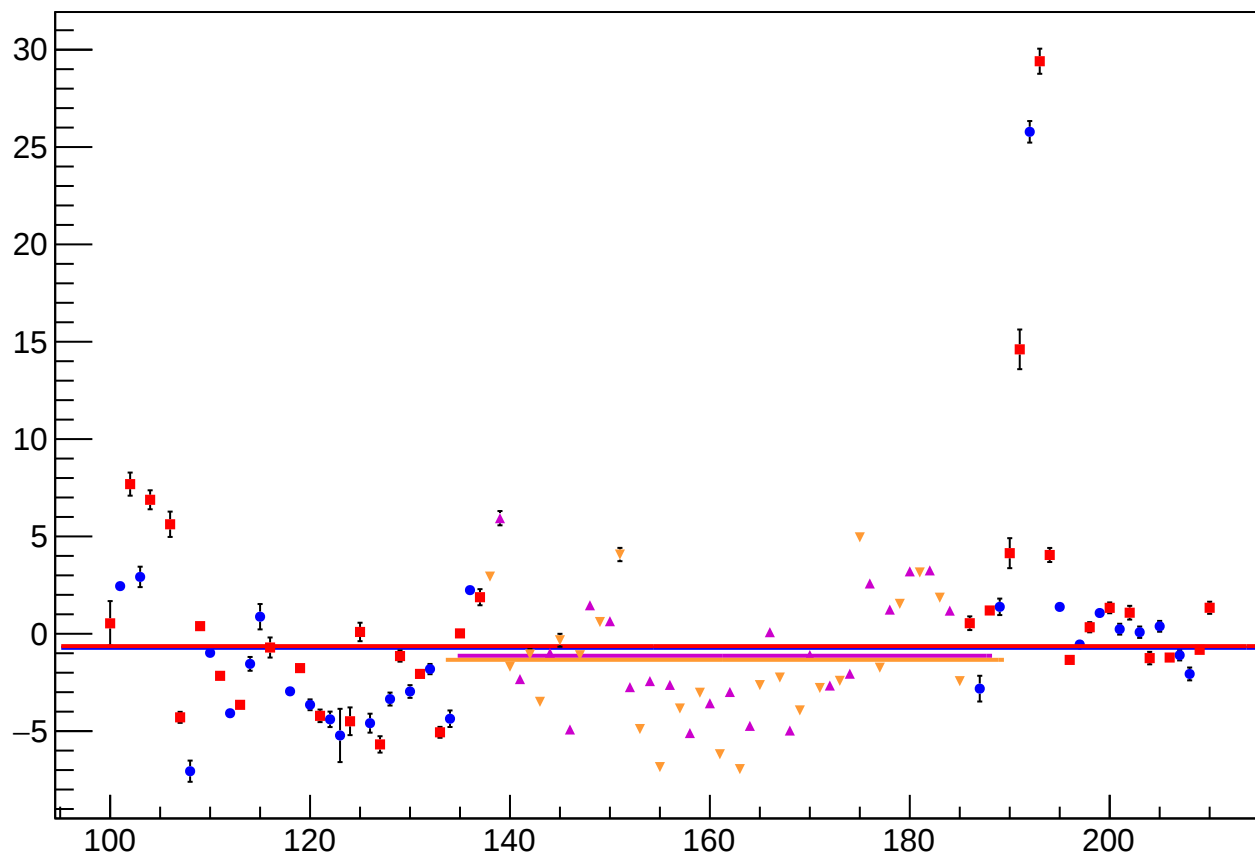
Right In: -4.945 ± 0.049 χ^2/NDF : 26966.8/27
 Left Out: 18.150 ± 0.039 χ^2/NDF : 77847.8/24
 Right Out: -4.277 ± 0.042 χ^2/NDF : 28231.1/32
 Left In: 16.543 ± 0.038 χ^2/NDF : 40855.0/22

Left: 17.318 ± 0.027 χ^2/NDF : 119577.9/47
 Right: -4.560 ± 0.032 χ^2/NDF : 55304.9/60

In: 8.541 ± 0.030 χ^2/NDF : 188432.8/50
 Out: 7.744 ± 0.029 χ^2/NDF : 258782.7/57

All: 8.124 ± 0.021 χ^2/NDF : 447586.2/108

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected

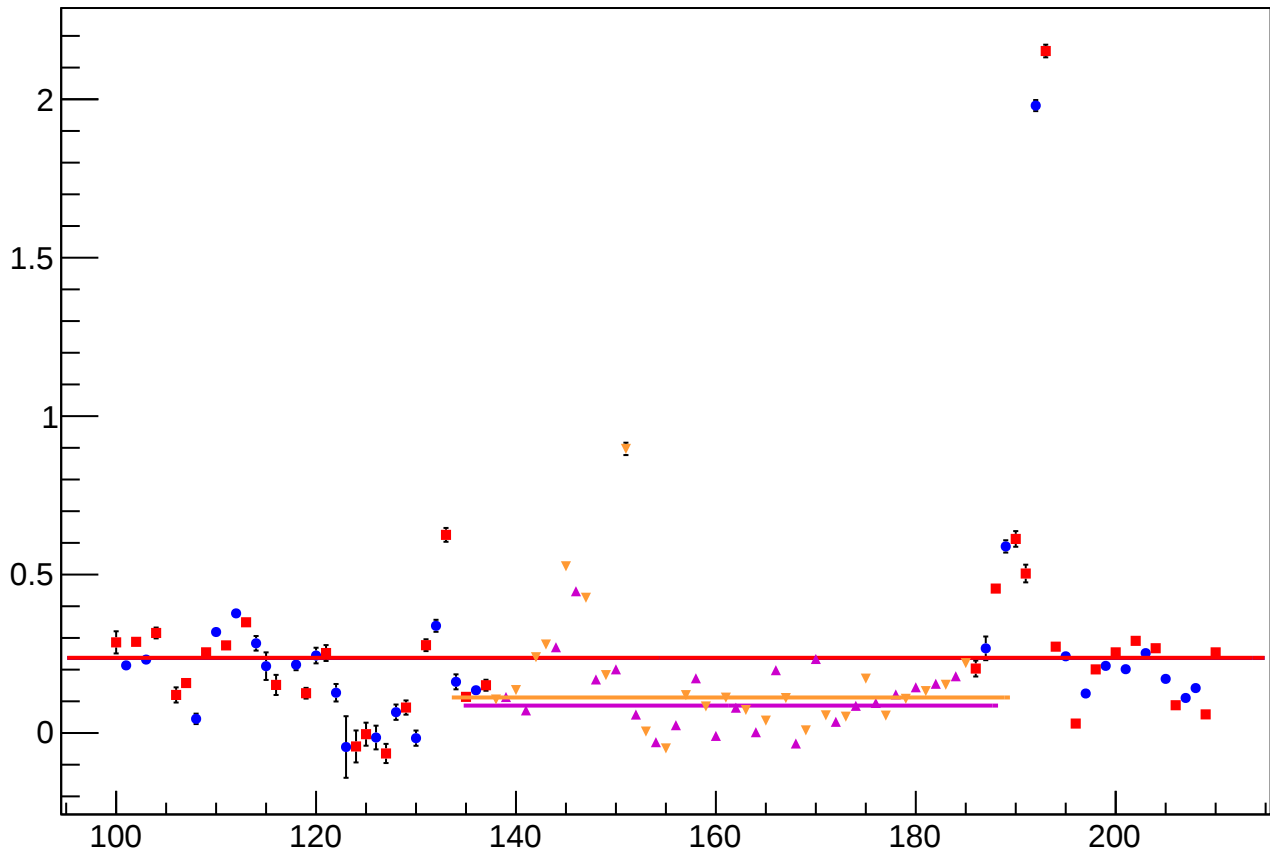


Right In: -0.721 ± 0.056 χ^2/NDF : 3931.9/27
 Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24
 Right Out: -0.634 ± 0.052 χ^2/NDF : 4516.4/32
 Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47
 Right: -0.674 ± 0.038 χ^2/NDF : 8449.5/60
 In: -1.018 ± 0.029 χ^2/NDF : 10711.1/50
 Out: -1.109 ± 0.029 χ^2/NDF : 12584.2/57

All: -1.063 ± 0.021 χ^2/NDF : 23300.1/108

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2/NDF : 11428.7/27

Left Out: 0.112 $\pm$ 0.002 χ^2/NDF : 4503.9/24

Right Out: 0.237 $\pm$ 0.002 χ^2/NDF : 12110.2/32

Left In: 0.087 $\pm$ 0.002 χ^2/NDF : 3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2/NDF : 8295.3/47

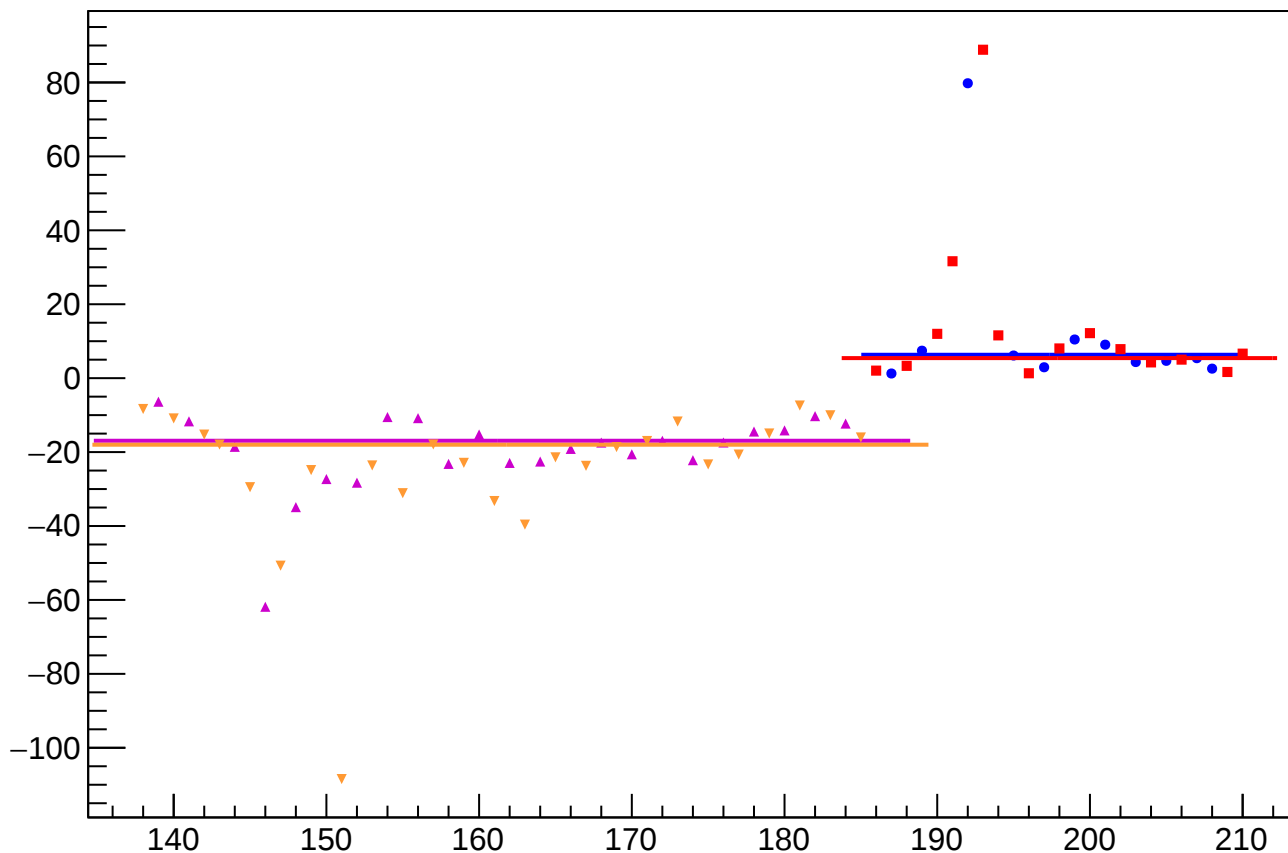
Right: 0.237 $\pm$ 0.002 χ^2/NDF : 23538.9/60

In: 0.127 $\pm$ 0.001 χ^2/NDF : 17801.8/50

Out: 0.152 $\pm$ 0.001 χ^2/NDF : 18564.5/57

All: 0.139 $\pm$ 0.001 χ^2/NDF : 36548.4/108

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.330 ± 0.059 $\chi^2/\text{NDF}: 25966.5/10$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 5.426 ± 0.052 $\chi^2/\text{NDF}: 27178.4/13$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

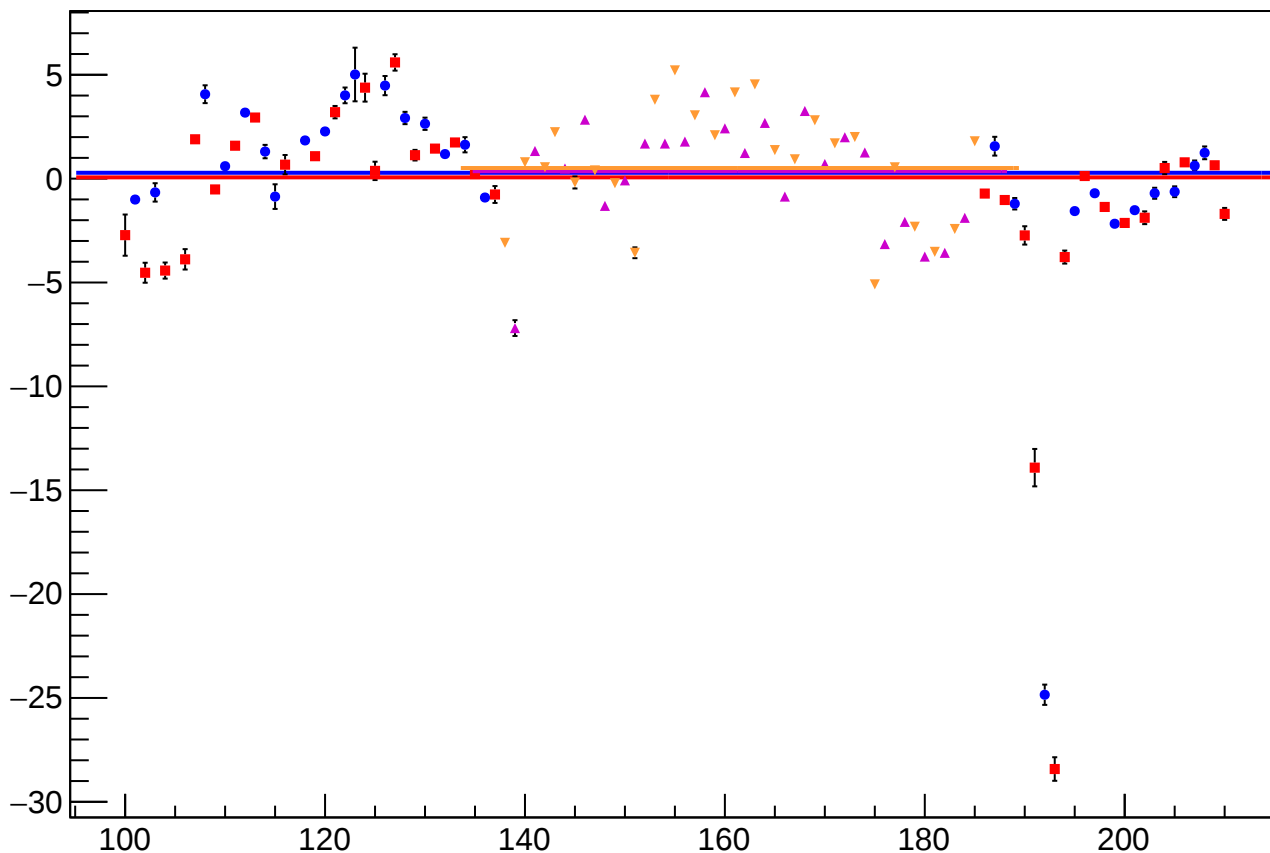
Right: 5.815 ± 0.039 $\chi^2/\text{NDF}: 53277.2/24$

In: -10.192 ± 0.032 $\chi^2/\text{NDF}: 179208.3/33$

Out: -9.571 ± 0.031 $\chi^2/\text{NDF}: 247921.5/38$

All: -9.871 ± 0.022 $\chi^2/\text{NDF}: 427325.0/72$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.282 $\pm$ 0.048 χ^2 /NDF: 3969.7/27

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.061 $\pm$ 0.044 χ^2 /NDF: 4467.3/32

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

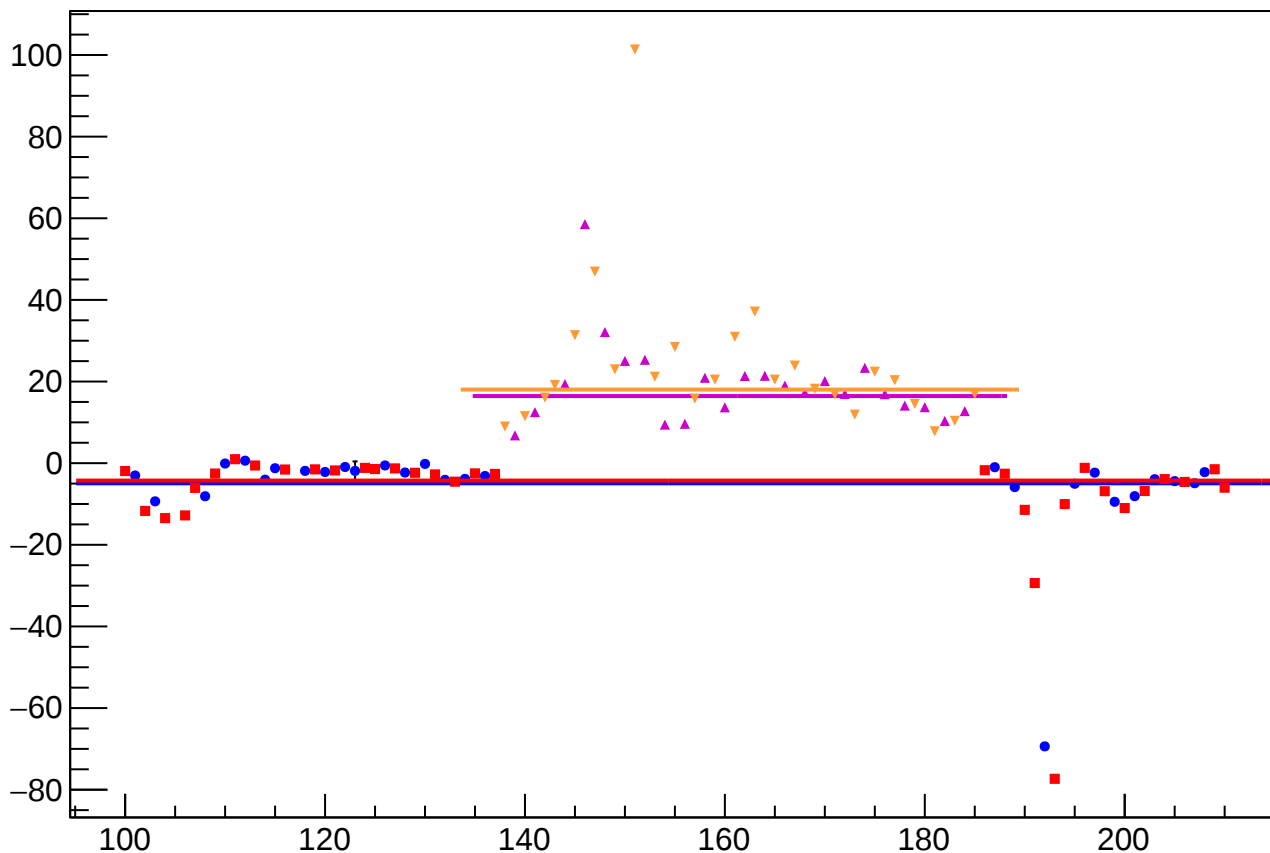
Right: 0.163 $\pm$ 0.033 χ^2 /NDF: 8448.4/60

In: 0.337 $\pm$ 0.026 χ^2 /NDF: 10192.7/50

Out: 0.357 $\pm$ 0.026 χ^2 /NDF: 11605.0/57

All: 0.347 $\pm$ 0.018 χ^2 /NDF: 21797.9/108

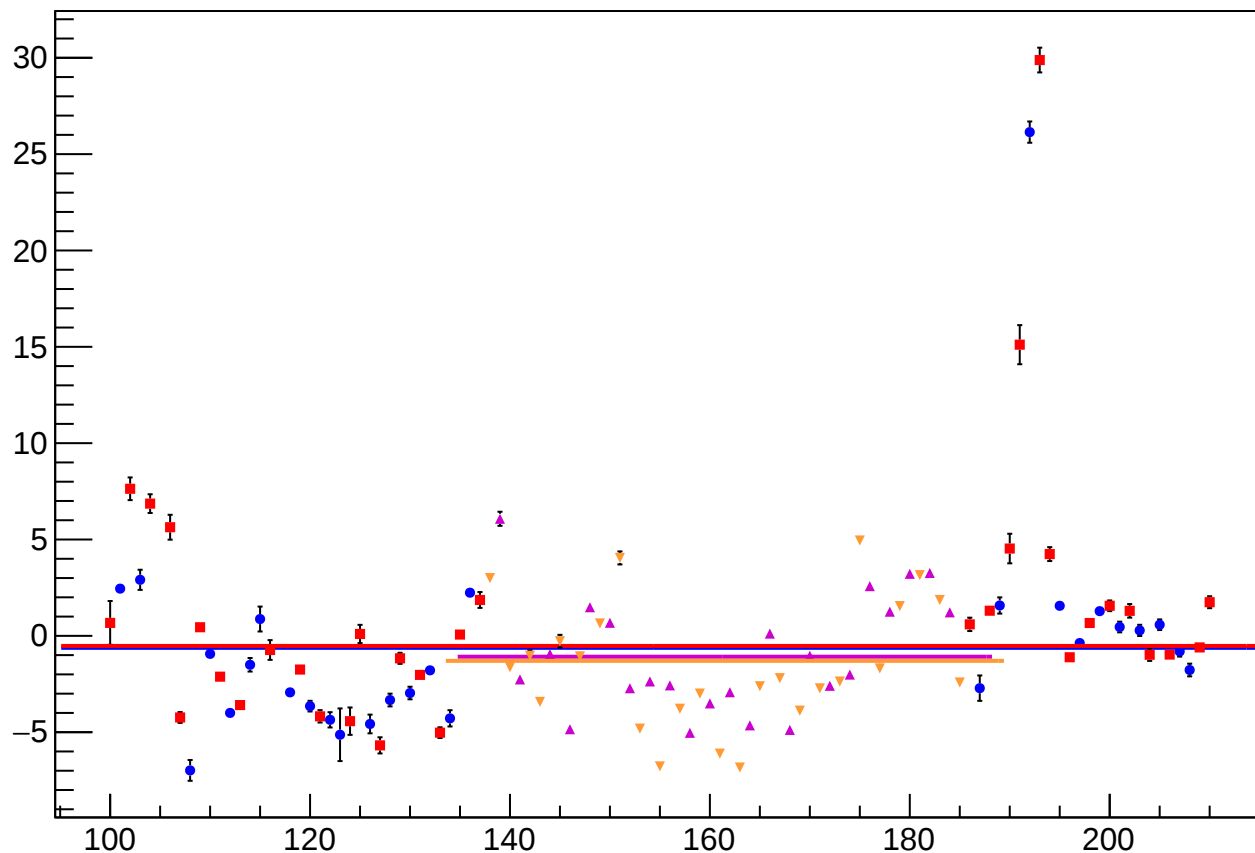
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.933 ± 0.049 $\chi^2/\text{NDF}: 27276.7/27$
 Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$
 Right Out: -4.260 ± 0.042 $\chi^2/\text{NDF}: 28698.4/32$
 Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$
 Right: -4.545 ± 0.032 $\chi^2/\text{NDF}: 56085.1/60$
 In: 8.502 ± 0.030 $\chi^2/\text{NDF}: 188701.0/50$
 Out: 7.689 ± 0.028 $\chi^2/\text{NDF}: 259305.5/57$
 All: 8.077 ± 0.021 $\chi^2/\text{NDF}: 448397.7/108$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.620 ± 0.056 $\chi^2/\text{NDF}: 4037.6/27$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.523 ± 0.051 $\chi^2/\text{NDF}: 4680.2/32$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

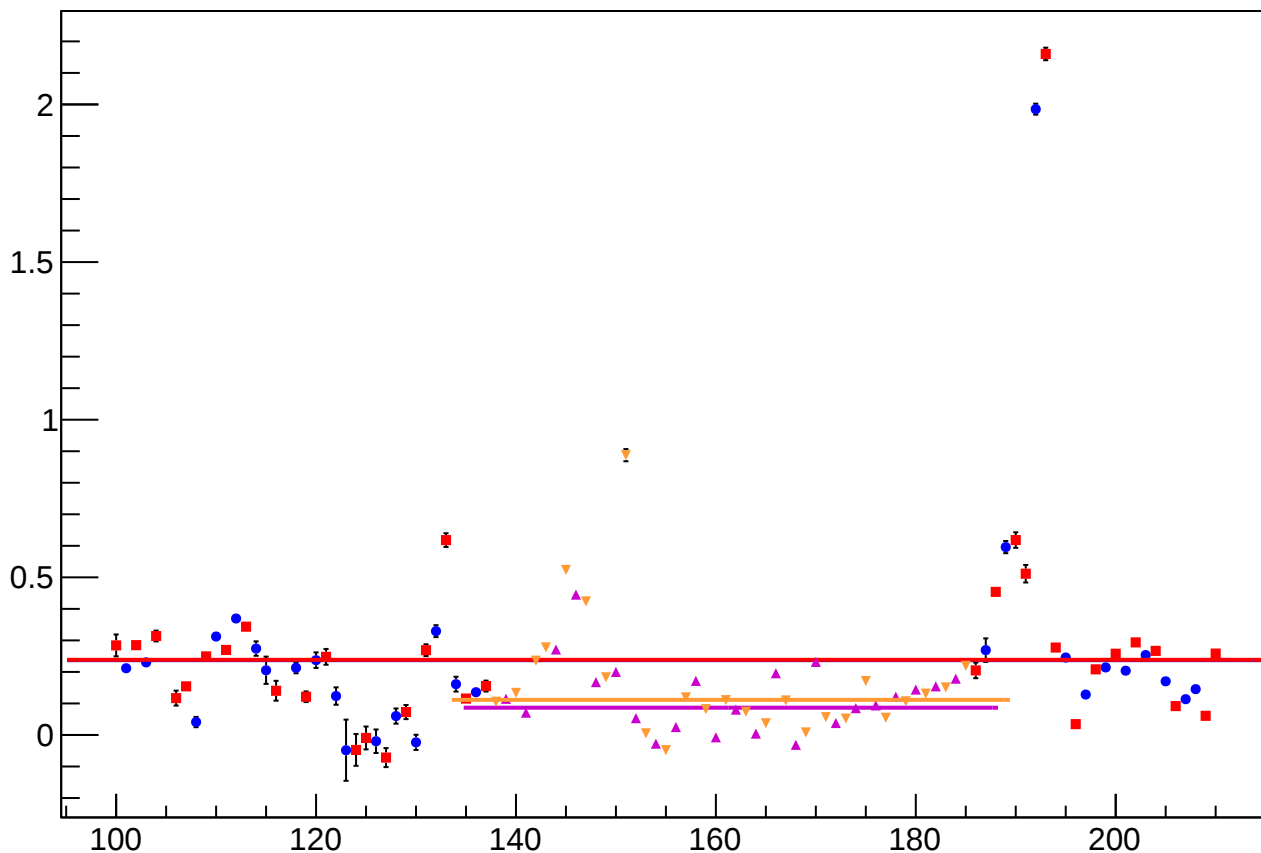
Right: -0.568 ± 0.038 $\chi^2/\text{NDF}: 8719.5/60$

In: -0.956 ± 0.029 $\chi^2/\text{NDF}: 10812.0/50$

Out: -1.046 ± 0.029 $\chi^2/\text{NDF}: 12758.3/57$

All: -1.001 ± 0.021 $\chi^2/\text{NDF}: 23575.1/108$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2 /NDF: 11549.4/27

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF: 4496.0/24

Right Out: 0.238 $\pm$ 0.002 χ^2 /NDF: 12237.8/32

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

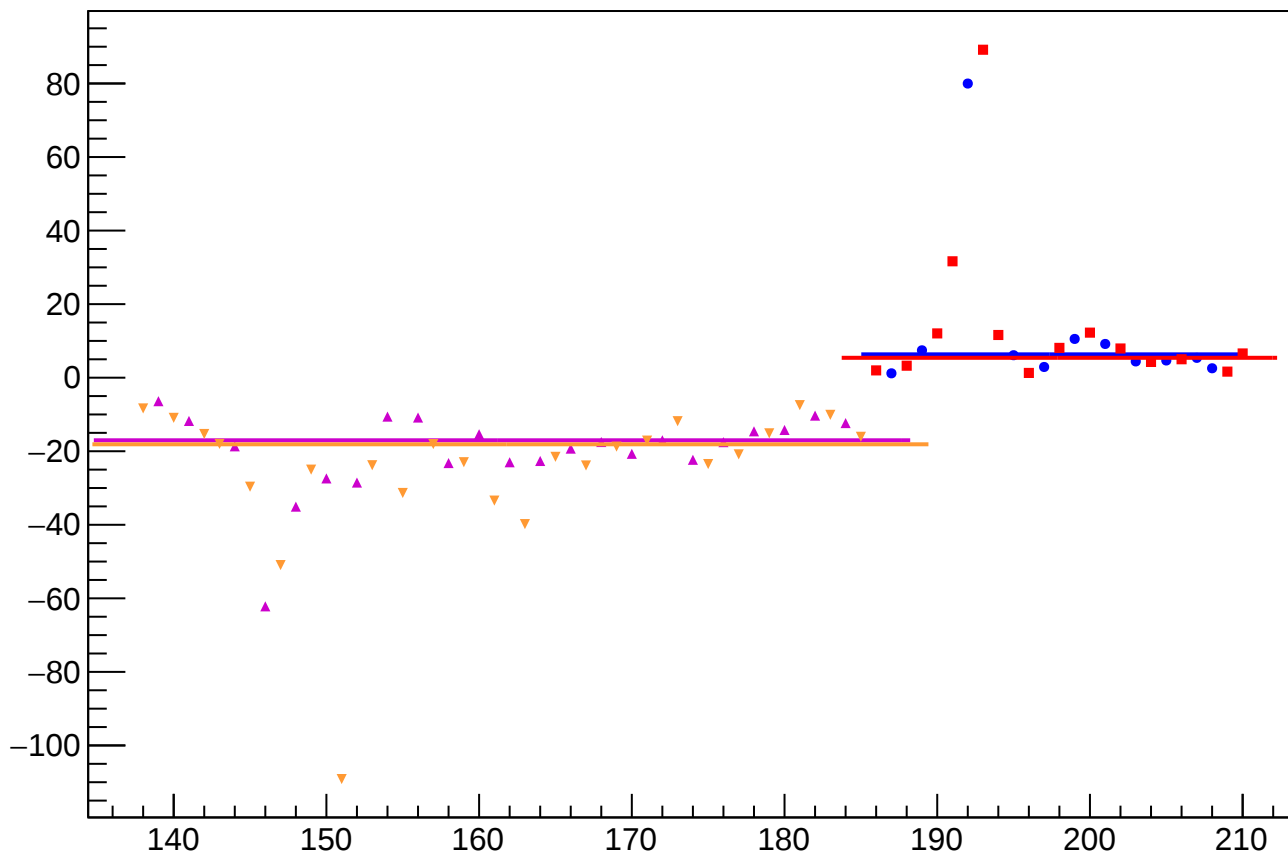
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23787.4/60

In: 0.127 $\pm$ 0.001 χ^2 /NDF: 17943.4/50

Out: 0.152 $\pm$ 0.001 χ^2 /NDF: 18763.7/57

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 36887.1/108

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.345+/-0.060 χ^2/NDF : 25961.3/10

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 5.408+/-0.052 χ^2/NDF : 27194.3/13

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

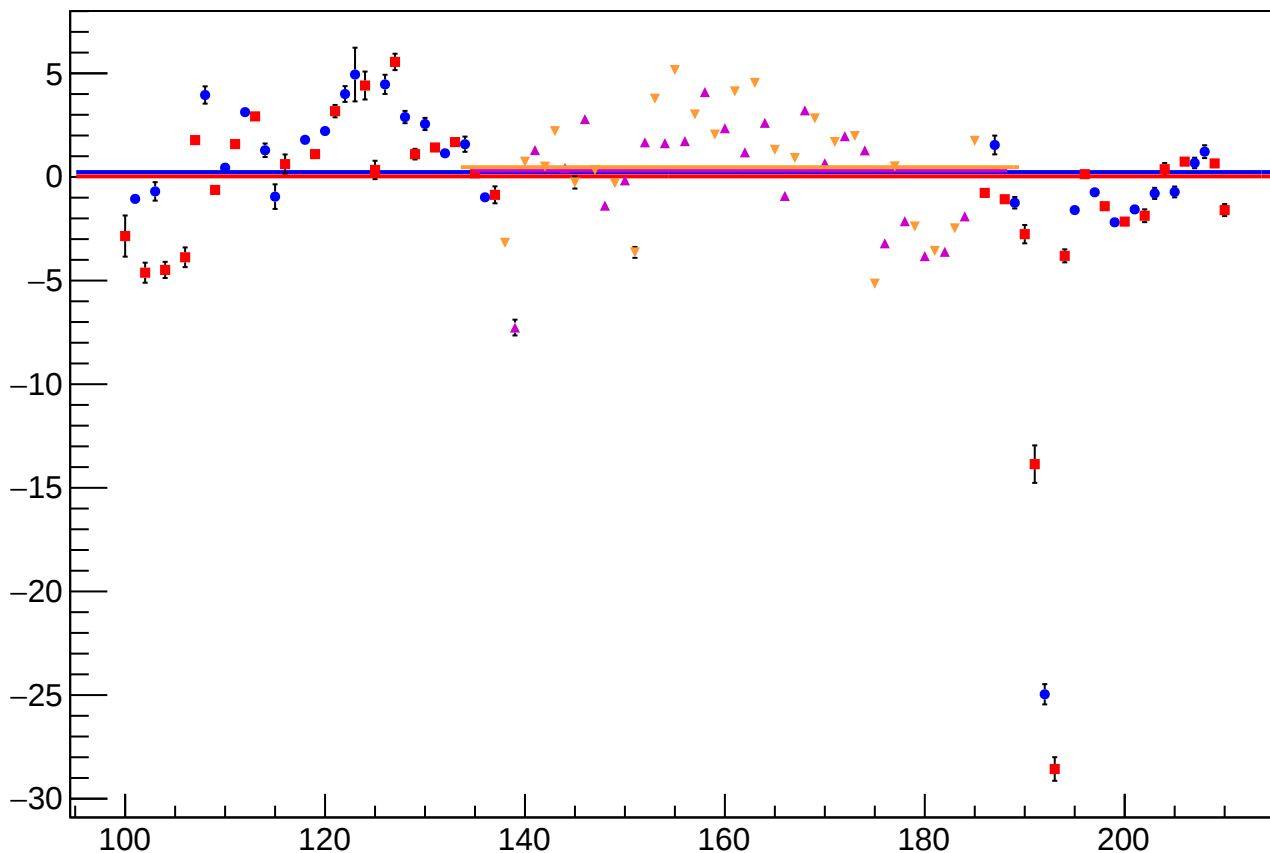
Right: 5.809+/-0.039 χ^2/NDF : 53296.2/24

In: -10.280+/-0.032 χ^2/NDF : 178956.6/33

Out: -9.648+/-0.031 χ^2/NDF : 247920.2/38

All: -9.954+/-0.022 χ^2/NDF : 427076.9/72

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.235 $\pm$ 0.048 χ^2 /NDF: 3957.7/27

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.028 $\pm$ 0.045 χ^2 /NDF: 4454.5/32

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

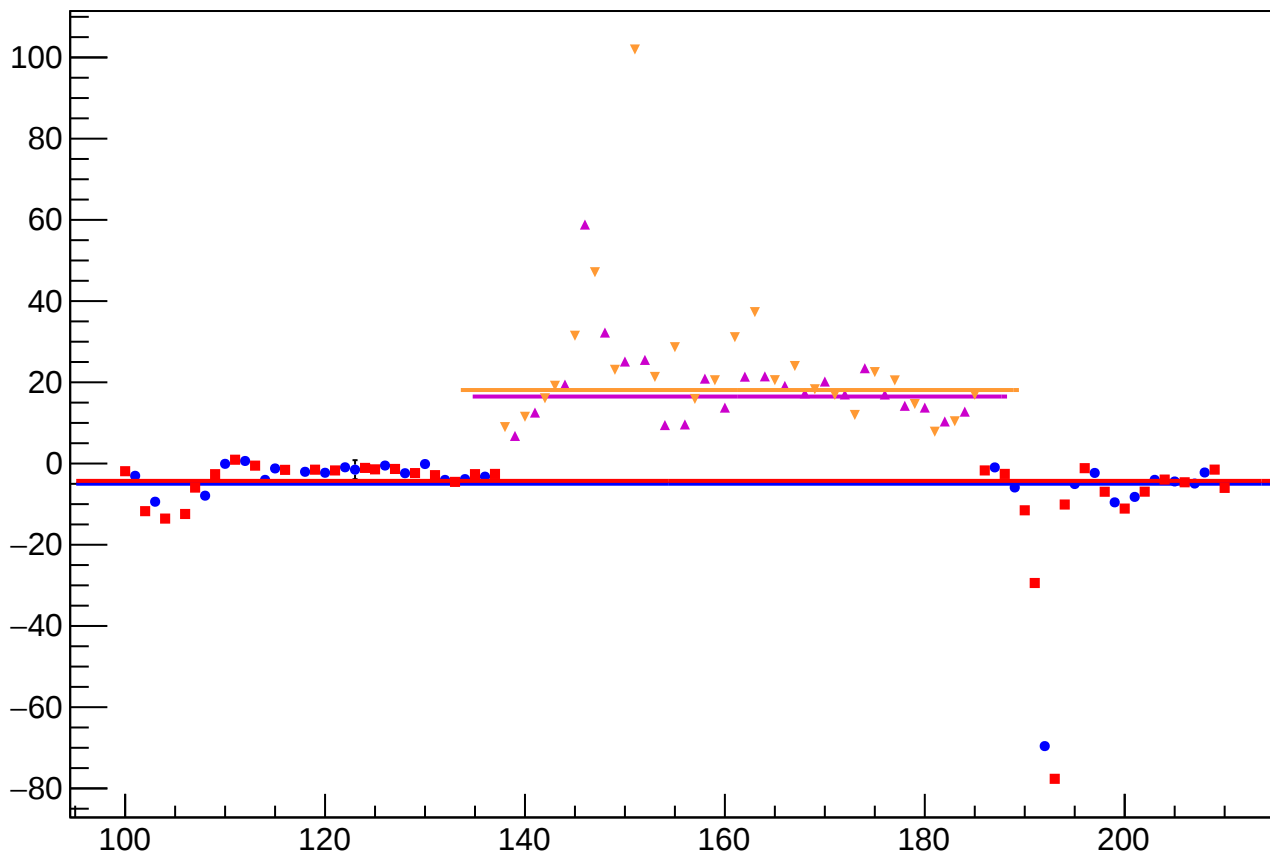
Right: 0.123 $\pm$ 0.033 χ^2 /NDF: 8422.1/60

In: 0.289 $\pm$ 0.026 χ^2 /NDF: 10142.6/50

Out: 0.317 $\pm$ 0.026 χ^2 /NDF: 11611.7/57

All: 0.303 $\pm$ 0.018 χ^2 /NDF: 21754.9/108

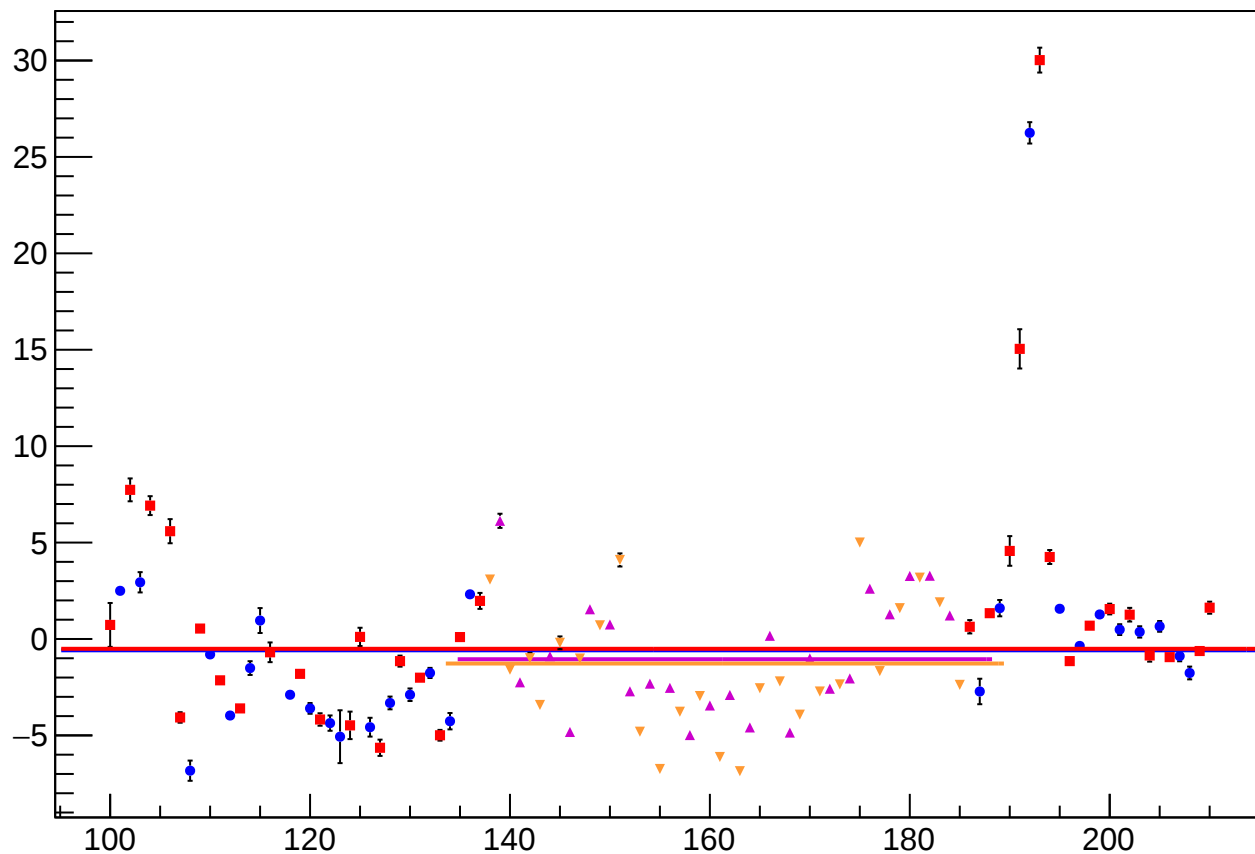
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.969 ± 0.049 $\chi^2/\text{NDF}: 27275.5/27$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.272 ± 0.042 $\chi^2/\text{NDF}: 28705.0/32$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.565 ± 0.032 $\chi^2/\text{NDF}: 56097.0/60$
 In: 8.549 ± 0.030 $\chi^2/\text{NDF}: 188441.7/50$
 Out: 7.719 ± 0.029 $\chi^2/\text{NDF}: 259343.6/57$
 All: 8.115 ± 0.021 $\chi^2/\text{NDF}: 448188.9/108$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

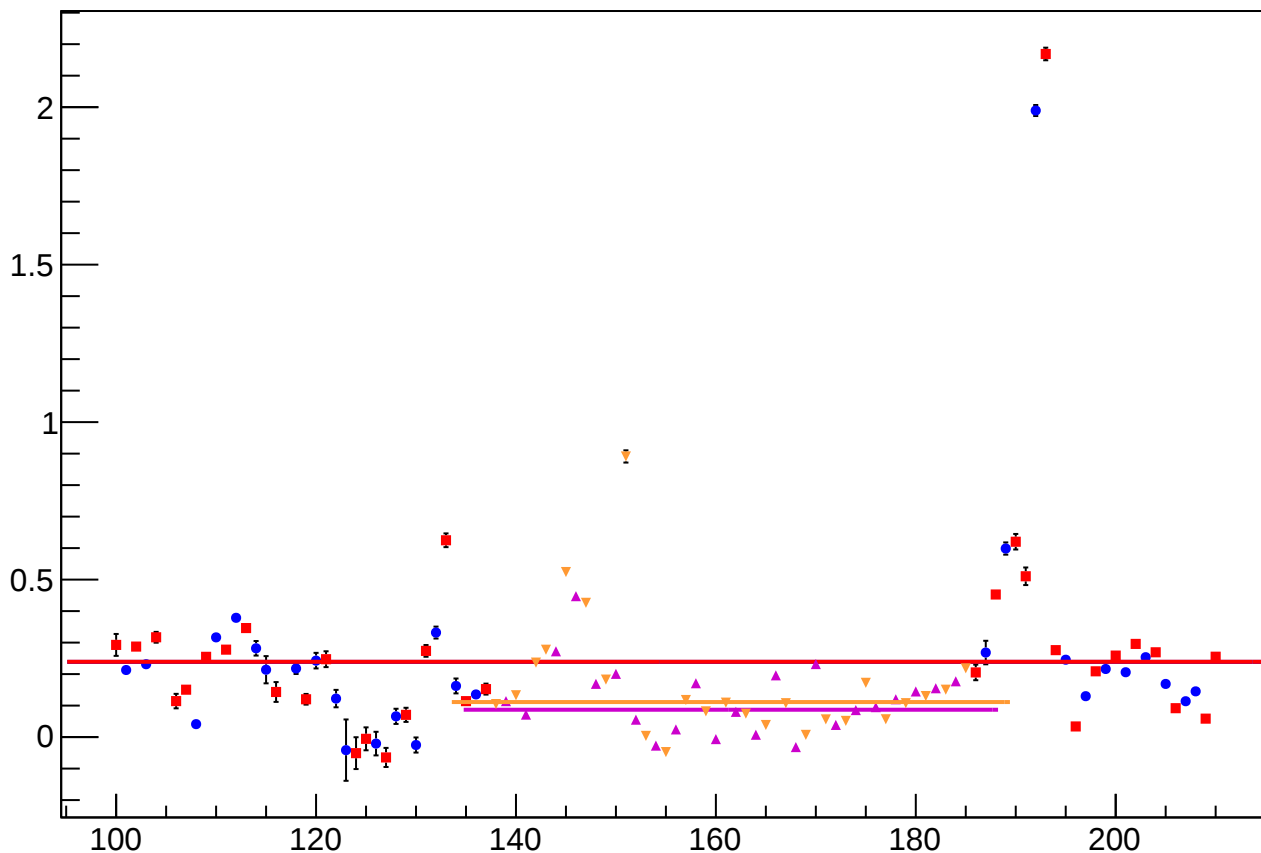


Right In: -0.587 ± 0.056 $\chi^2/\text{NDF}: 4029.7/27$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.509 ± 0.052 $\chi^2/\text{NDF}: 4669.5/32$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.545 ± 0.038 $\chi^2/\text{NDF}: 8700.2/60$
 In: -0.925 ± 0.029 $\chi^2/\text{NDF}: 10753.3/50$
 Out: -1.025 ± 0.029 $\chi^2/\text{NDF}: 12768.7/57$

All: -0.974 ± 0.021 $\chi^2/\text{NDF}: 23527.9/108$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.239 $\pm$ 0.002 χ^2 /NDF: 11544.0/27

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.239 $\pm$ 0.002 χ^2 /NDF: 12256.3/32

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

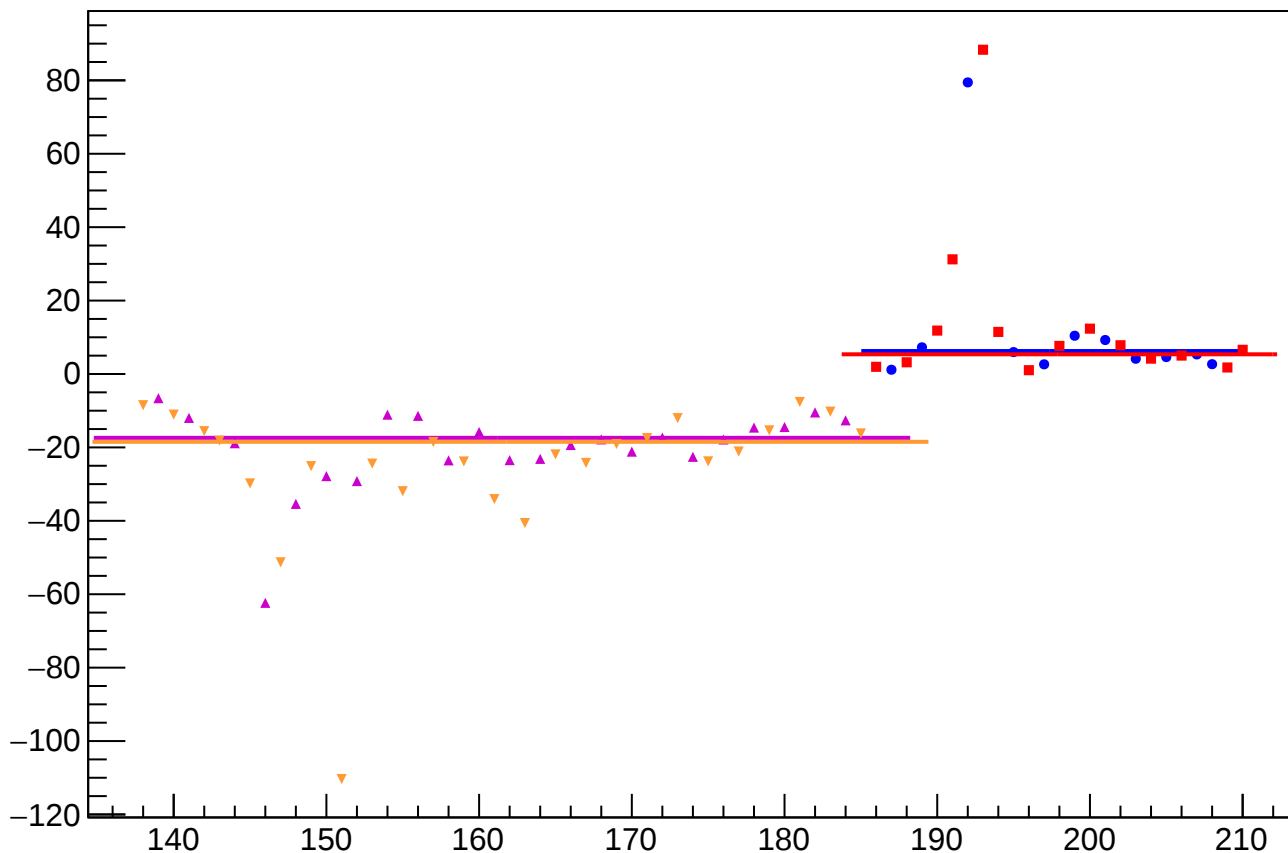
Right: 0.239 $\pm$ 0.002 χ^2 /NDF: 23800.4/60

In: 0.128 $\pm$ 0.001 χ^2 /NDF:17921.3/50

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18771.7/57

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36865.7/108

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.255+/-0.060 χ^2/NDF : 25543.7/10

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 5.365+/-0.052 χ^2/NDF : 26608.3/13

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

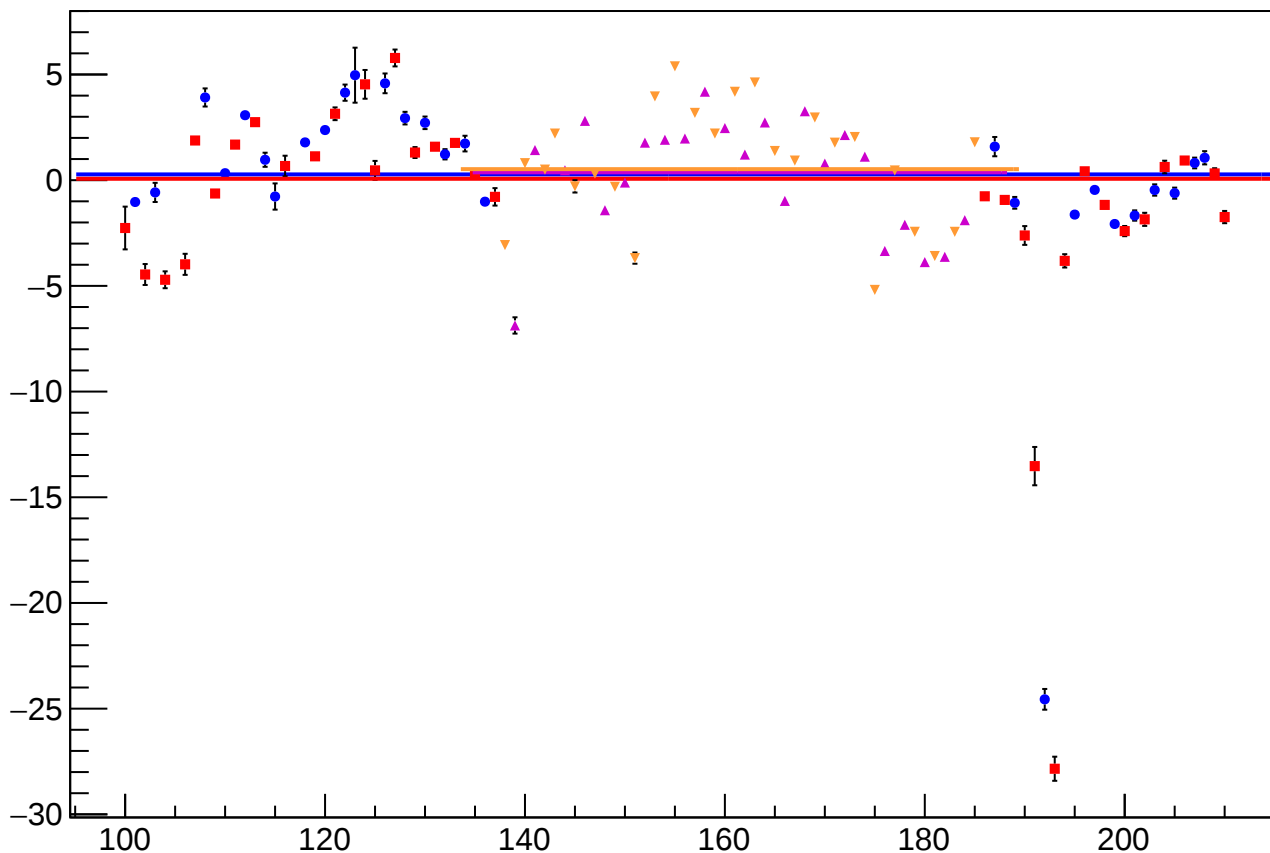
Right: 5.746+/-0.039 χ^2/NDF : 52277.8/24

In: -10.388+/-0.033 χ^2/NDF : 177860.8/33

Out: -9.697+/-0.032 χ^2/NDF : 247355.5/38

All: -10.030+/-0.023 χ^2/NDF : 425448.0/72

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.273 $\pm$ 0.049 χ^2 /NDF: 3823.2/27

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.067 $\pm$ 0.045 χ^2 /NDF: 4300.6/32

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF:6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

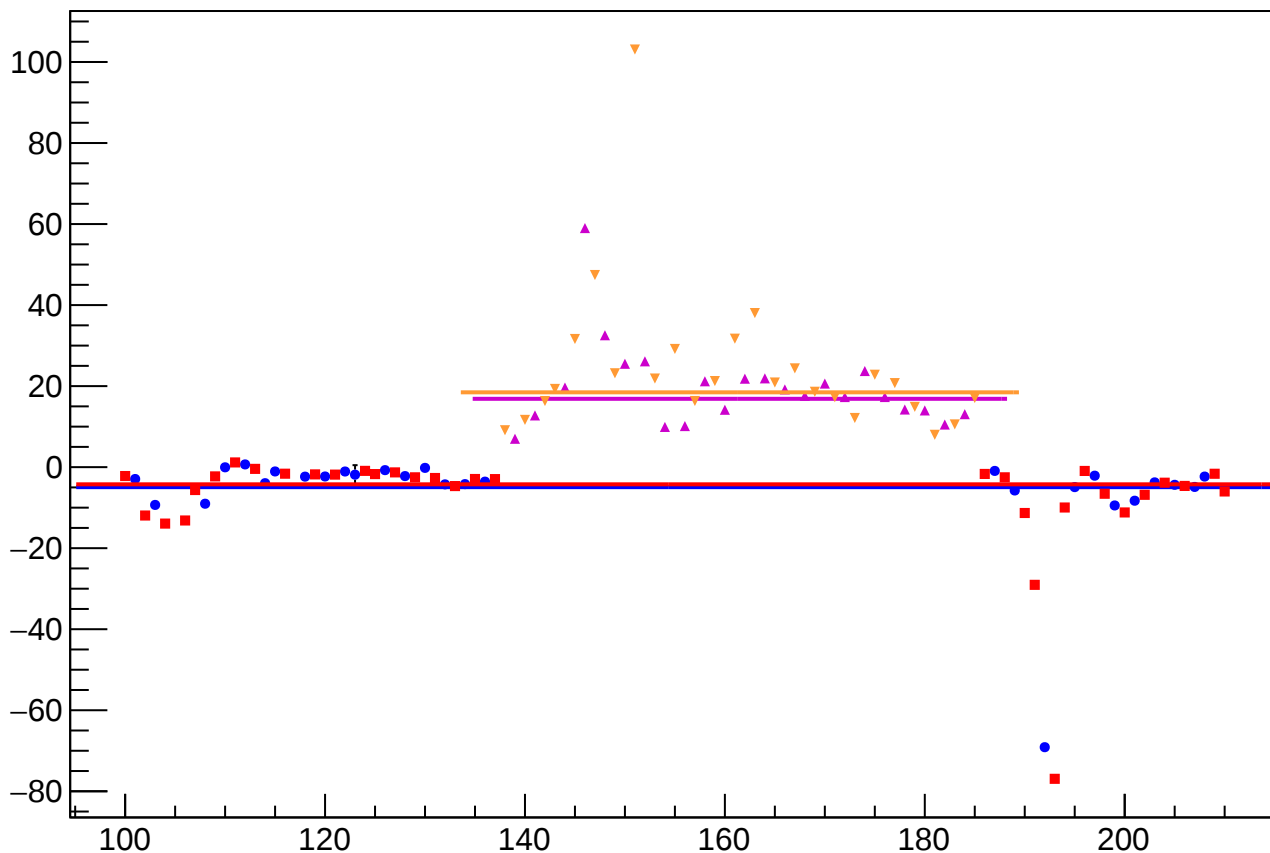
Right: 0.162 $\pm$ 0.033 χ^2 /NDF: 8133.4/60

In: 0.343 $\pm$ 0.026 χ^2 /NDF:10043.5/50

Out: 0.364 $\pm$ 0.027 χ^2 /NDF:11421.7/57

All: 0.353 $\pm$ 0.019 χ^2 /NDF: 21465.6/108

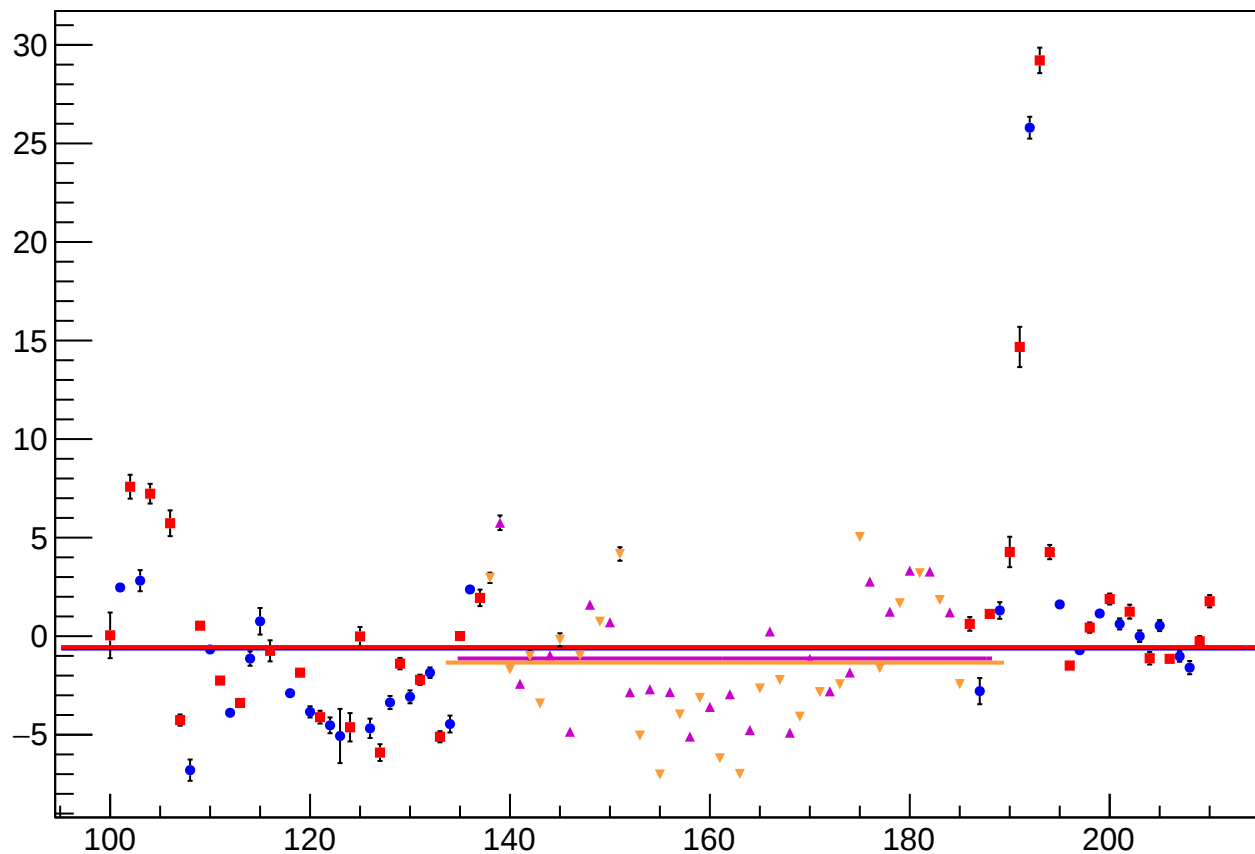
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.936 ± 0.049 $\chi^2/\text{NDF}: 26791.5/27$
 Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$
 Right Out: -4.238 ± 0.042 $\chi^2/\text{NDF}: 28148.6/32$
 Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$
 Right: -4.532 ± 0.032 $\chi^2/\text{NDF}: 55055.2/60$
 In: 8.630 ± 0.030 $\chi^2/\text{NDF}: 187323.4/50$
 Out: 7.756 ± 0.029 $\chi^2/\text{NDF}: 258249.2/57$
 All: 8.172 ± 0.021 $\chi^2/\text{NDF}: 446004.3/108$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.628 ± 0.057 $\chi^2/\text{NDF}: 3910.1/27$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.552 ± 0.052 $\chi^2/\text{NDF}: 4527.5/32$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

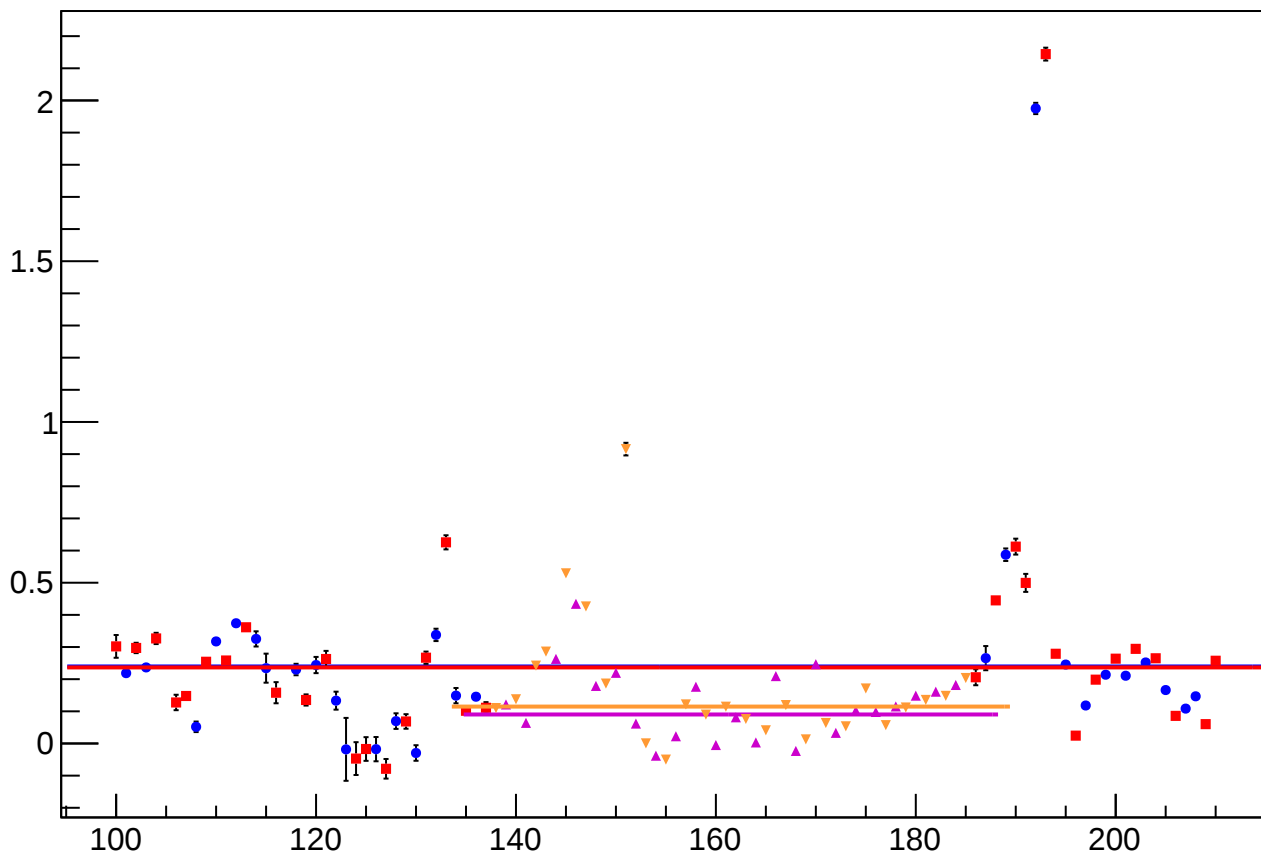
Right: -0.588 ± 0.038 $\chi^2/\text{NDF}: 8438.6/60$

In: -0.993 ± 0.030 $\chi^2/\text{NDF}: 10676.1/50$

Out: -1.082 ± 0.030 $\chi^2/\text{NDF}: 12586.7/57$

All: -1.037 ± 0.021 $\chi^2/\text{NDF}: 23267.2/108$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 $\pm$ 0.002 χ^2 /NDF: 11301.4/27

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.237 $\pm$ 0.002 χ^2 /NDF: 12103.5/32

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

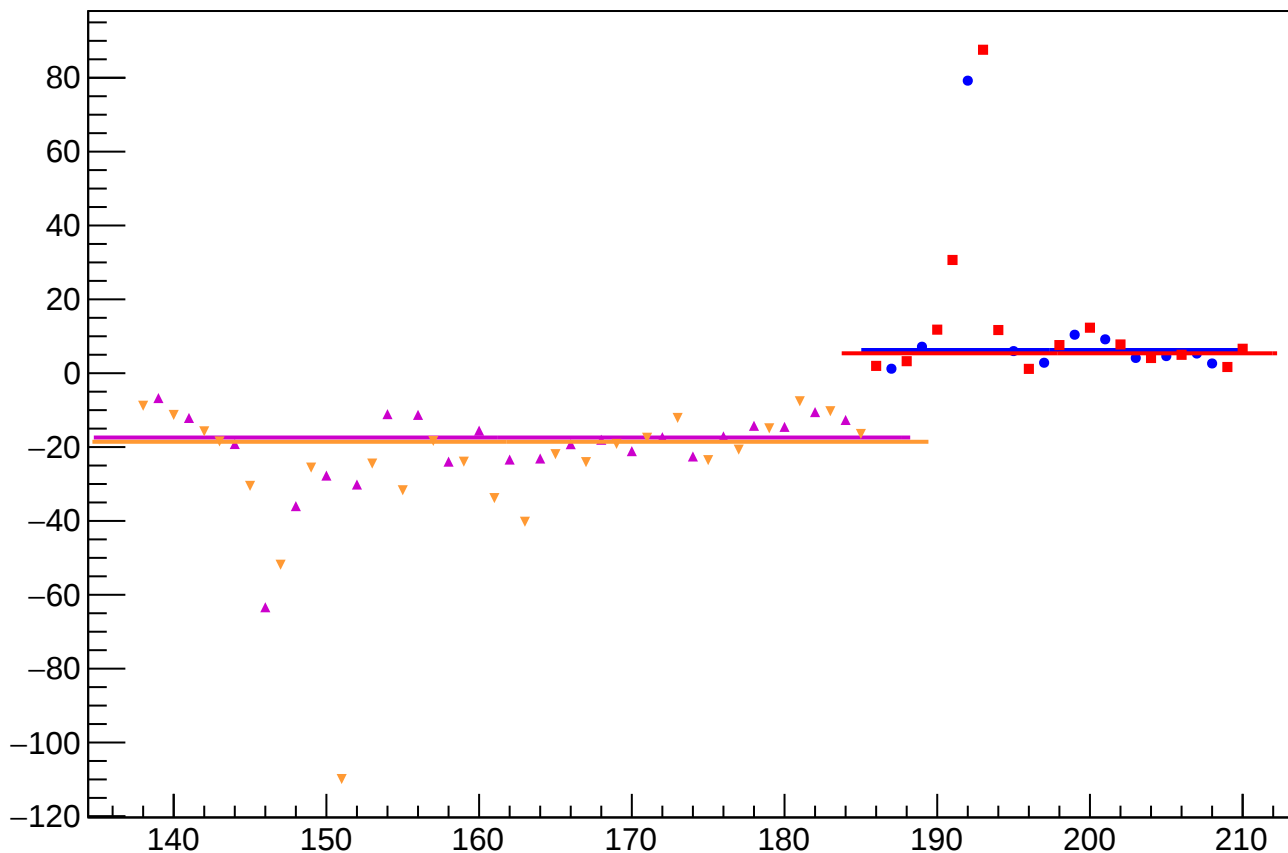
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23405.7/60

In: 0.132 $\pm$ 0.001 χ^2 /NDF:17590.3/50

Out: 0.154 $\pm$ 0.001 χ^2 /NDF:18332.8/57

All: 0.143 $\pm$ 0.001 χ^2 /NDF: 36070.6/108

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.283+/-0.061 χ^2/NDF : 25060.5/10

Left Out: -18.566+/-0.040 χ^2/NDF : 86389.6/24

Right Out: 5.390+/-0.053 χ^2/NDF : 25986.7/13

Left In: -17.414+/-0.039 χ^2/NDF : 43504.1/22

Left: -17.979+/-0.028 χ^2/NDF : 130314.7/47

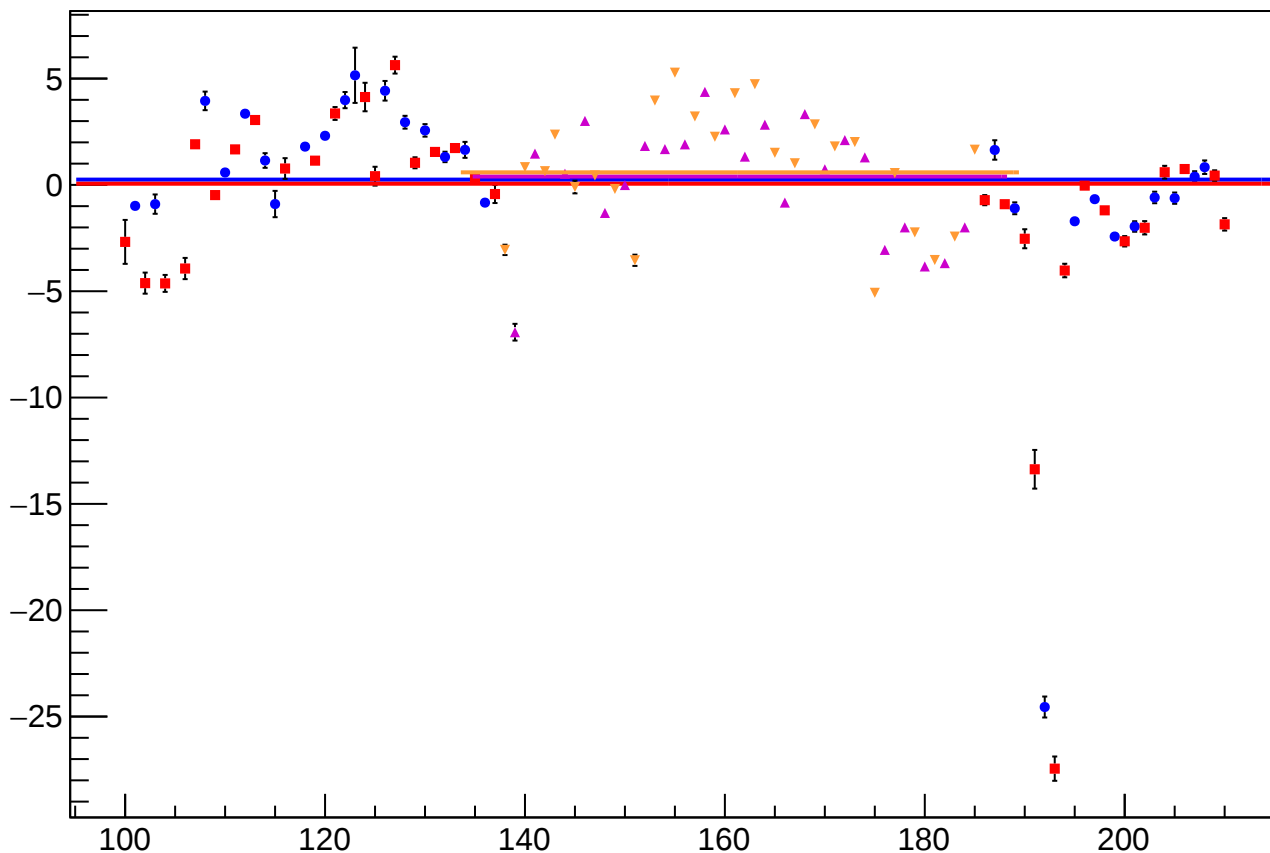
Right: 5.773+/-0.040 χ^2/NDF : 51170.3/24

In: -10.426+/-0.033 χ^2/NDF : 175770.5/33

Out: -9.775+/-0.032 χ^2/NDF : 243360.8/38

All: -10.090+/-0.023 χ^2/NDF : 419332.1/72

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.249 $\pm$ 0.049 χ^2 /NDF: 3860.9/27

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.055 $\pm$ 0.046 χ^2 /NDF: 4257.9/32

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF: 6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

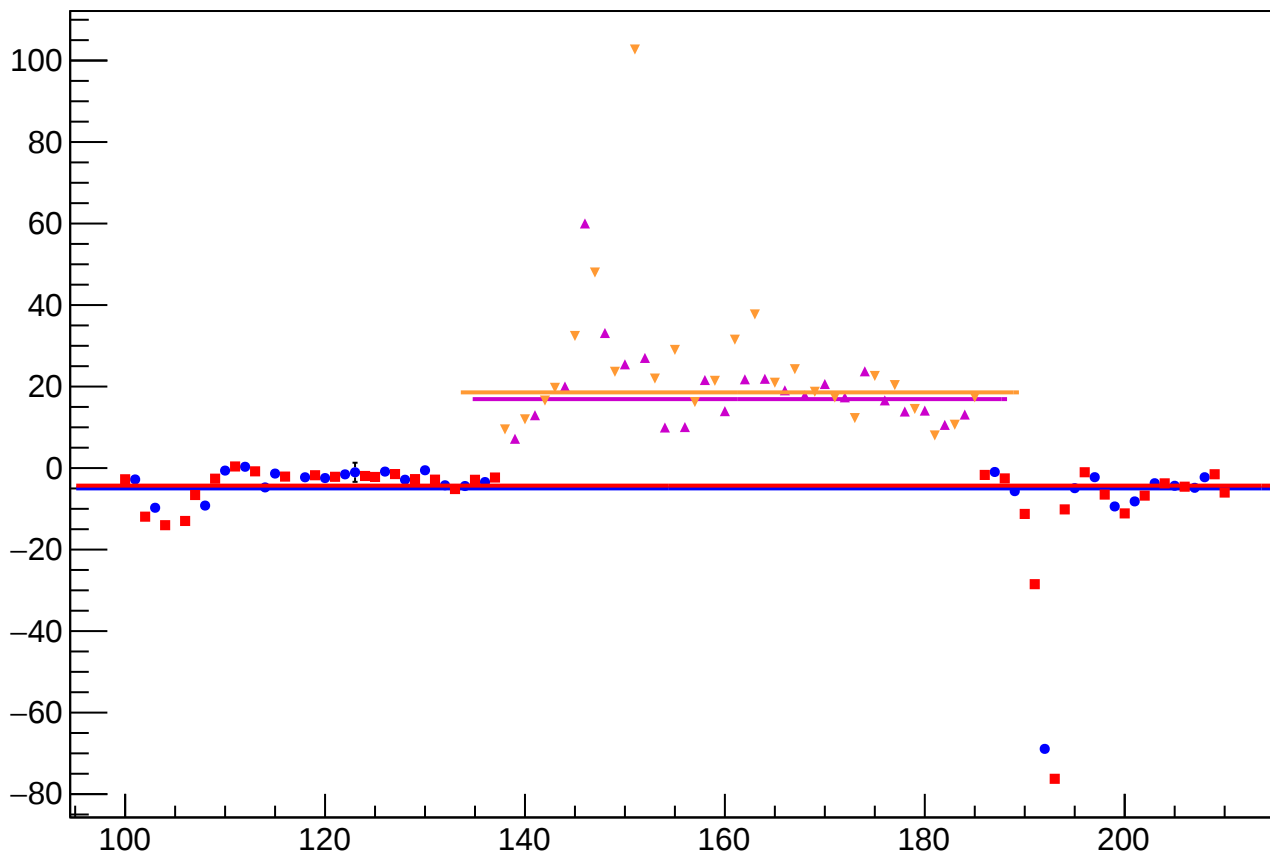
Right: 0.145 $\pm$ 0.034 χ^2 /NDF: 8127.1/60

In: 0.352 $\pm$ 0.027 χ^2 /NDF: 9926.8/50

Out: 0.406 $\pm$ 0.027 χ^2 /NDF: 11143.9/57

All: 0.378 $\pm$ 0.019 χ^2 /NDF: 21072.7/108

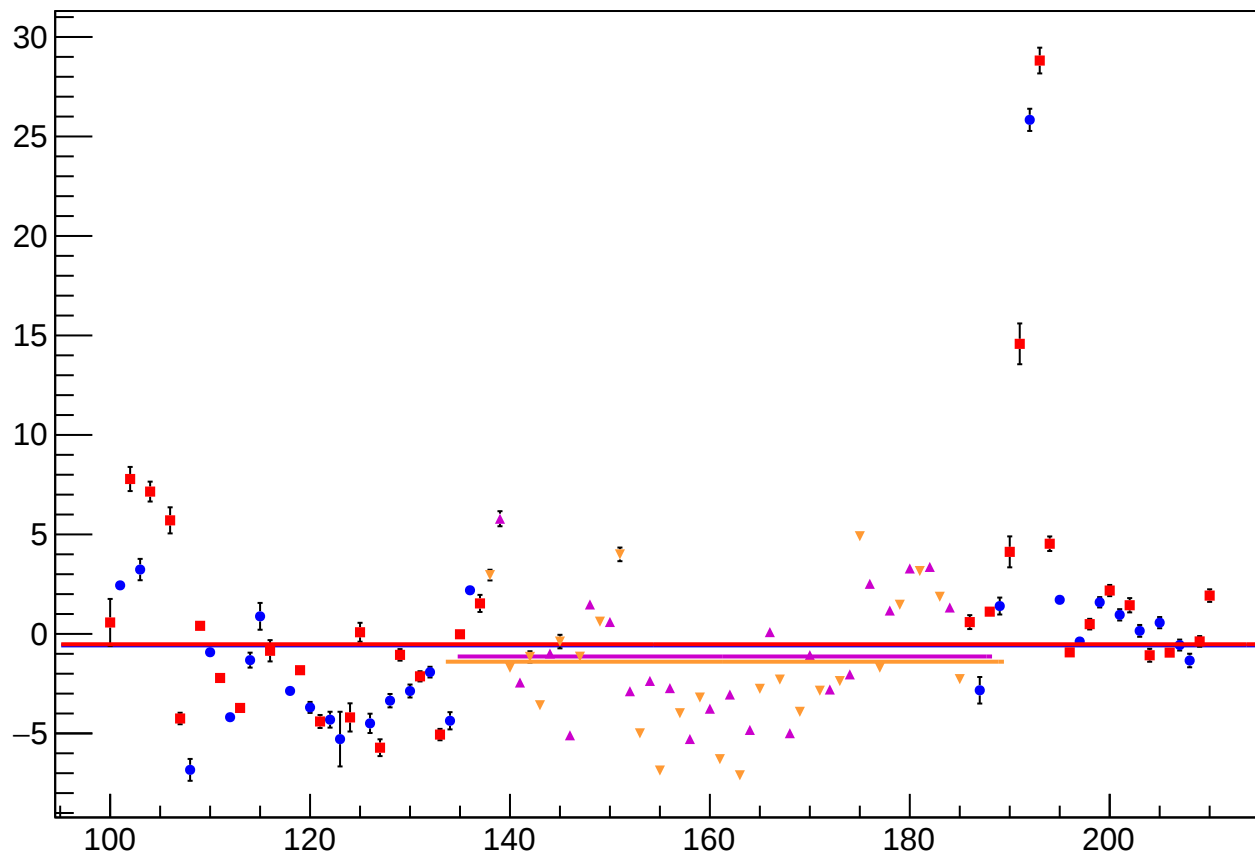
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.988 ± 0.050 $\chi^2/\text{NDF}: 26124.5/27$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.305 ± 0.043 $\chi^2/\text{NDF}: 27290.0/32$
 Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$
 Right: -4.593 ± 0.033 $\chi^2/\text{NDF}: 53521.7/60$
 In: 8.680 ± 0.031 $\chi^2/\text{NDF}: 185510.0/50$
 Out: 7.838 ± 0.029 $\chi^2/\text{NDF}: 254833.3/57$
 All: 8.239 ± 0.021 $\chi^2/\text{NDF}: 440735.7/108$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

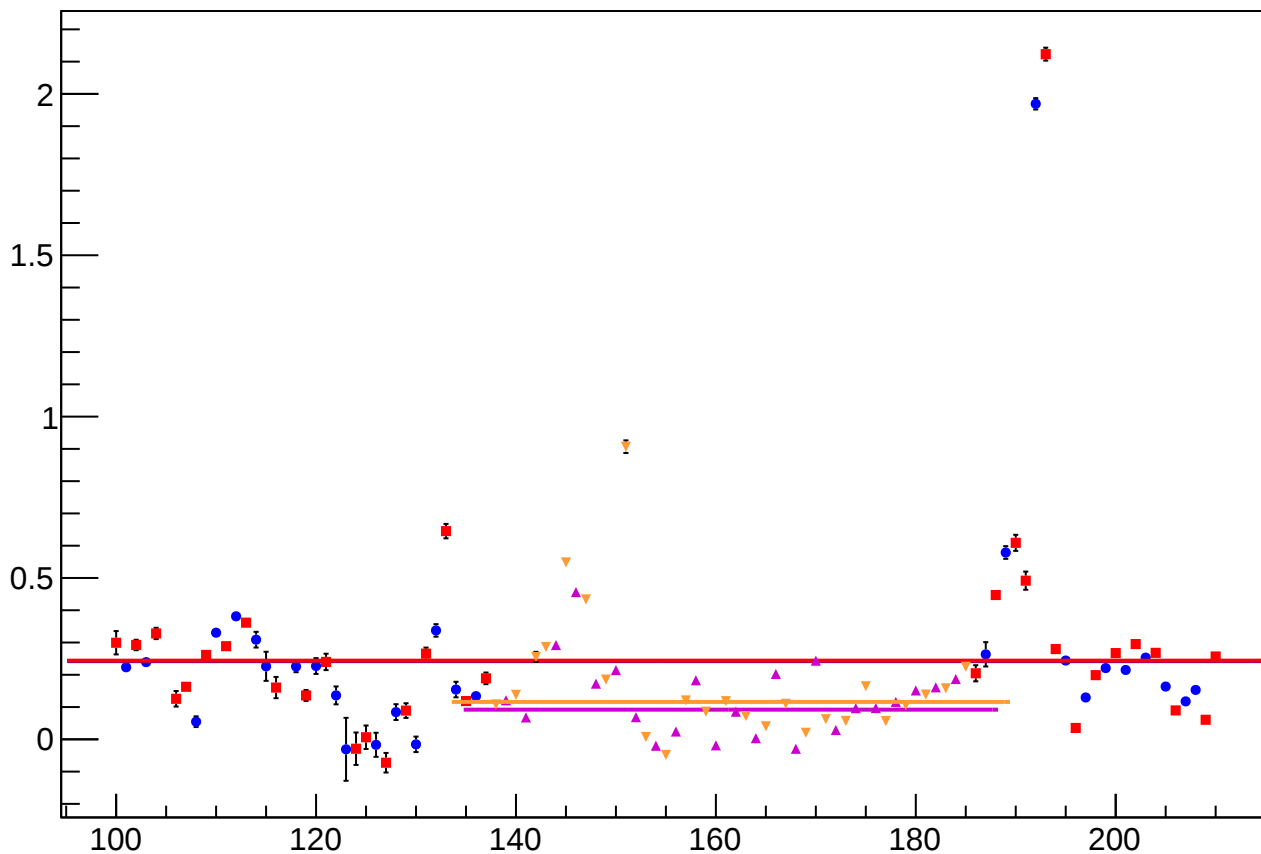


Right In: -0.577 ± 0.057 $\chi^2/\text{NDF}: 3903.8/27$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.520 ± 0.053 $\chi^2/\text{NDF}: 4469.8/32$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.547 ± 0.039 $\chi^2/\text{NDF}: 8374.1/60$
 In: -0.981 ± 0.030 $\chi^2/\text{NDF}: 10570.4/50$
 Out: -1.111 ± 0.030 $\chi^2/\text{NDF}: 12304.7/57$

All: -1.045 ± 0.021 $\chi^2/\text{NDF}: 22884.3/108$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.242 ± 0.003 $\chi^2/\text{NDF}: 11035.3/27$

Left Out: 0.116 ± 0.002 $\chi^2/\text{NDF}: 4463.0/24$

Right Out: 0.244 ± 0.002 $\chi^2/\text{NDF}: 11590.8/32$

Left In: 0.092 ± 0.002 $\chi^2/\text{NDF}: 3631.4/22$

Left: 0.103 ± 0.001 $\chi^2/\text{NDF}: 8207.3/47$

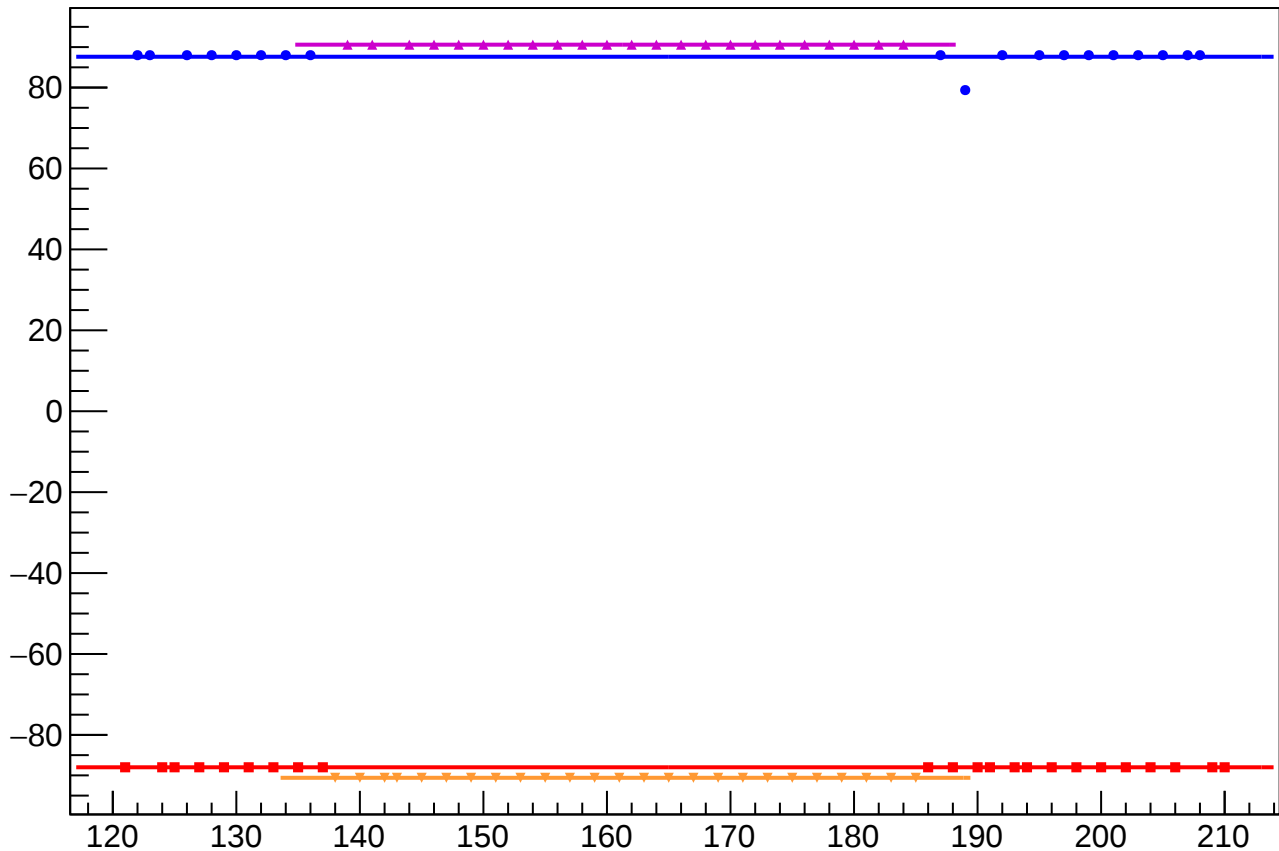
Right: 0.243 ± 0.002 $\chi^2/\text{NDF}: 22626.2/60$

In: 0.133 ± 0.001 $\chi^2/\text{NDF}: 17256.5/50$

Out: 0.157 ± 0.001 $\chi^2/\text{NDF}: 17980.4/57$

All: 0.145 ± 0.001 $\chi^2/\text{NDF}: 35393.3/108$

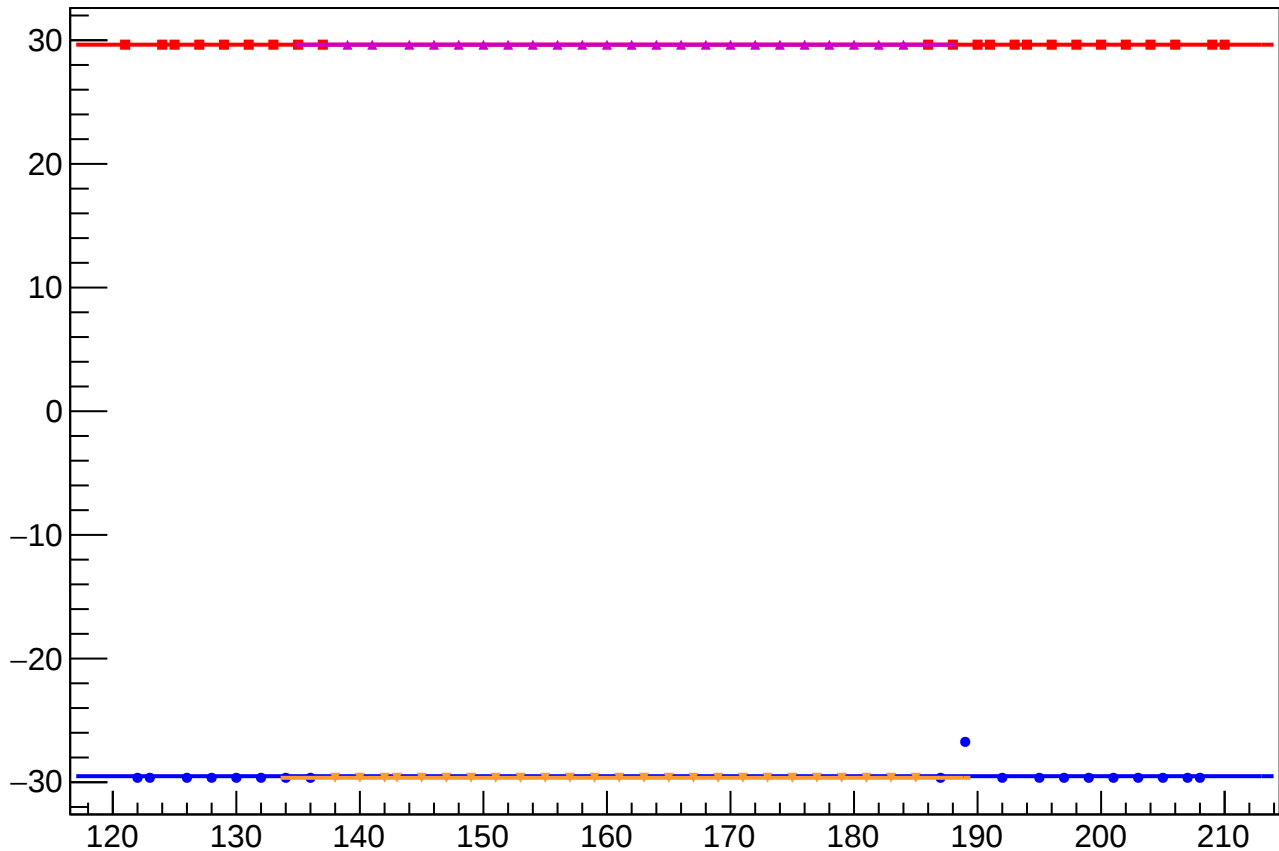
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.615+/-0.000 χ^2/NDF : 3626609238946743582136046582759424.0/18
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 985104.3/22
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
 Right: -5.604+/-0.000 χ^2/NDF : 1869911309093862
 In: 89.445+/-0.000 χ^2/NDF : 986231337662325249
 Out: -89.551+/-0.000 χ^2/NDF : 5204168294038147
 All: -3.673+/-0.000 χ^2/NDF : 4923533331908

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.511+/-0.000

χ^2/NDF : 411439025266603048189945716932608.0/18

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1431385.0/22

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

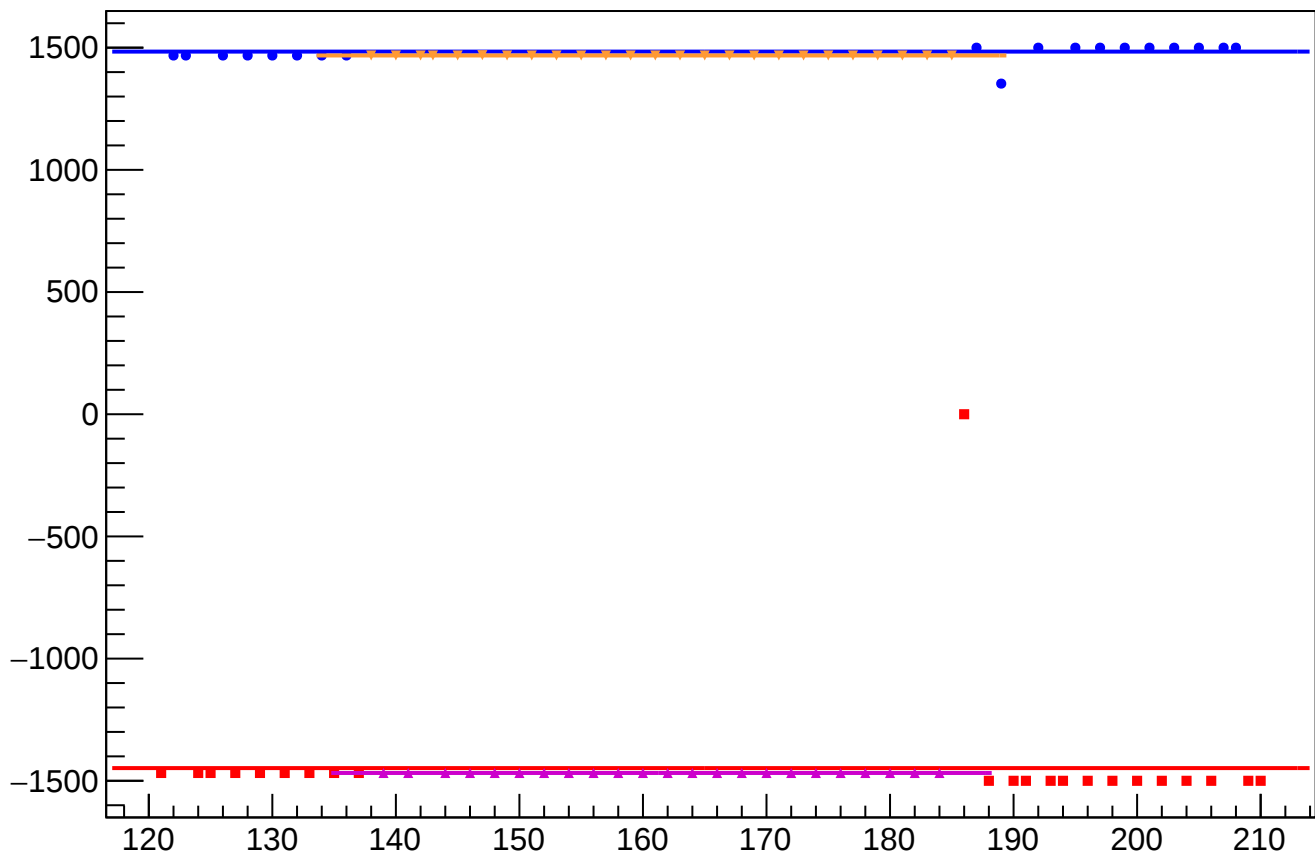
Right: 1.888+/-0.000 χ^2/NDF : 21214154480344243

In: 6.765+/-0.000 χ^2/NDF : 2450910570833328648

Out: -5.721+/-0.000 χ^2/NDF : 27083921591333500

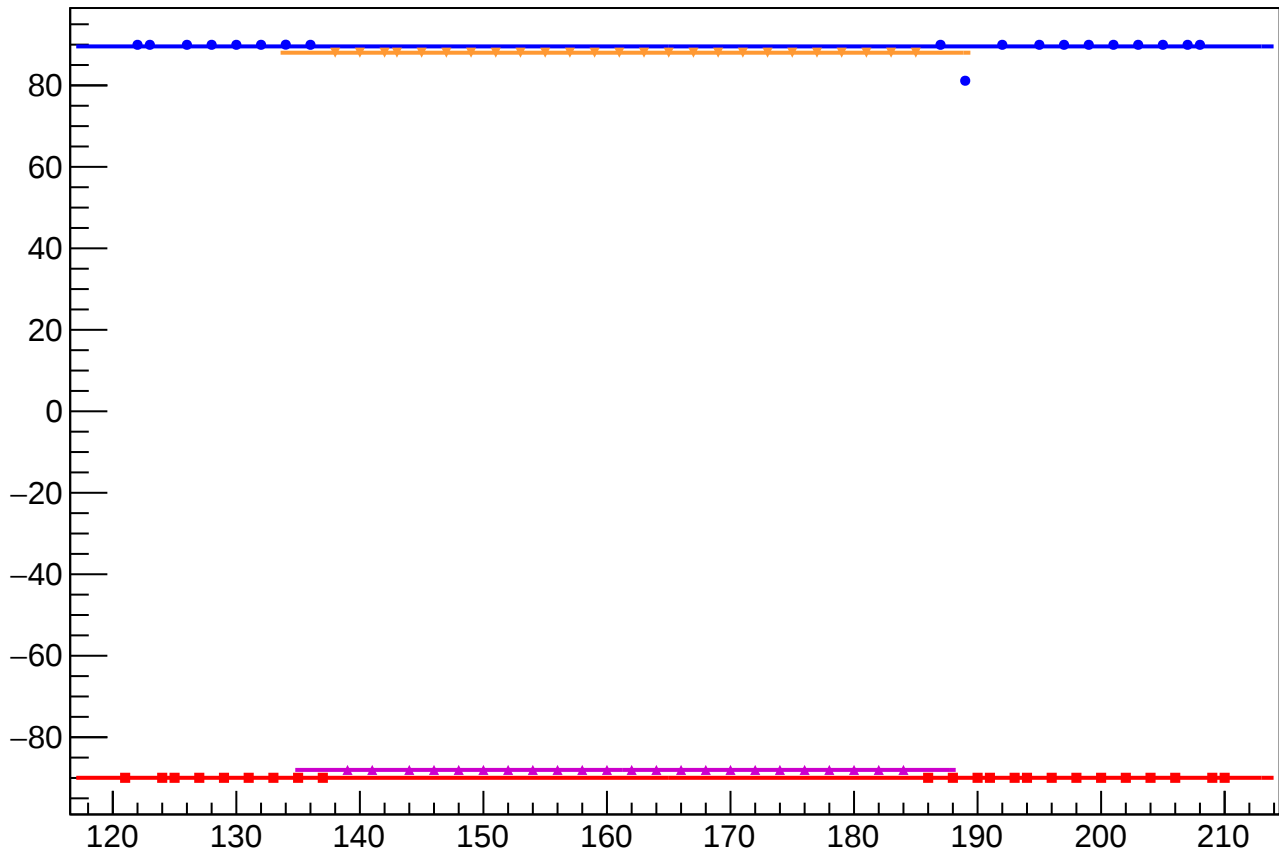
All: 0.270+/-0.000 χ^2/NDF : 53988035625227

psub_pl_pos_mean vs Slug, Sign Corrected



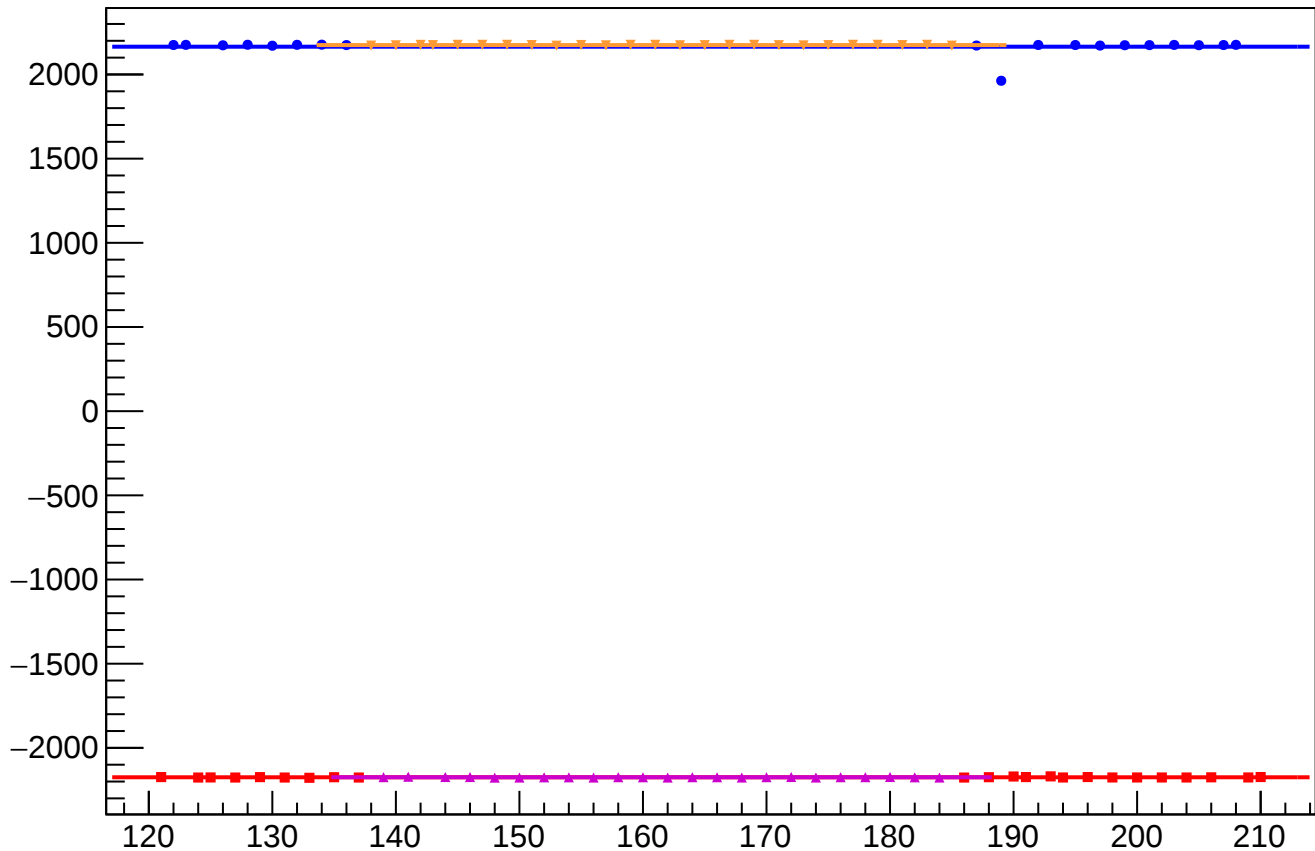
Right In: 1483.928+/-0.000 χ^2/NDF : 1155537212784247511664857980923281408.0/18
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1448.027+/-0.000 χ^2/NDF : 82333973523480609799864837496046092288.0/22
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: -4.999+/-0.000 χ^2/NDF : 1332618910333

Phi_FG_mean vs Slug, Sign Corrected



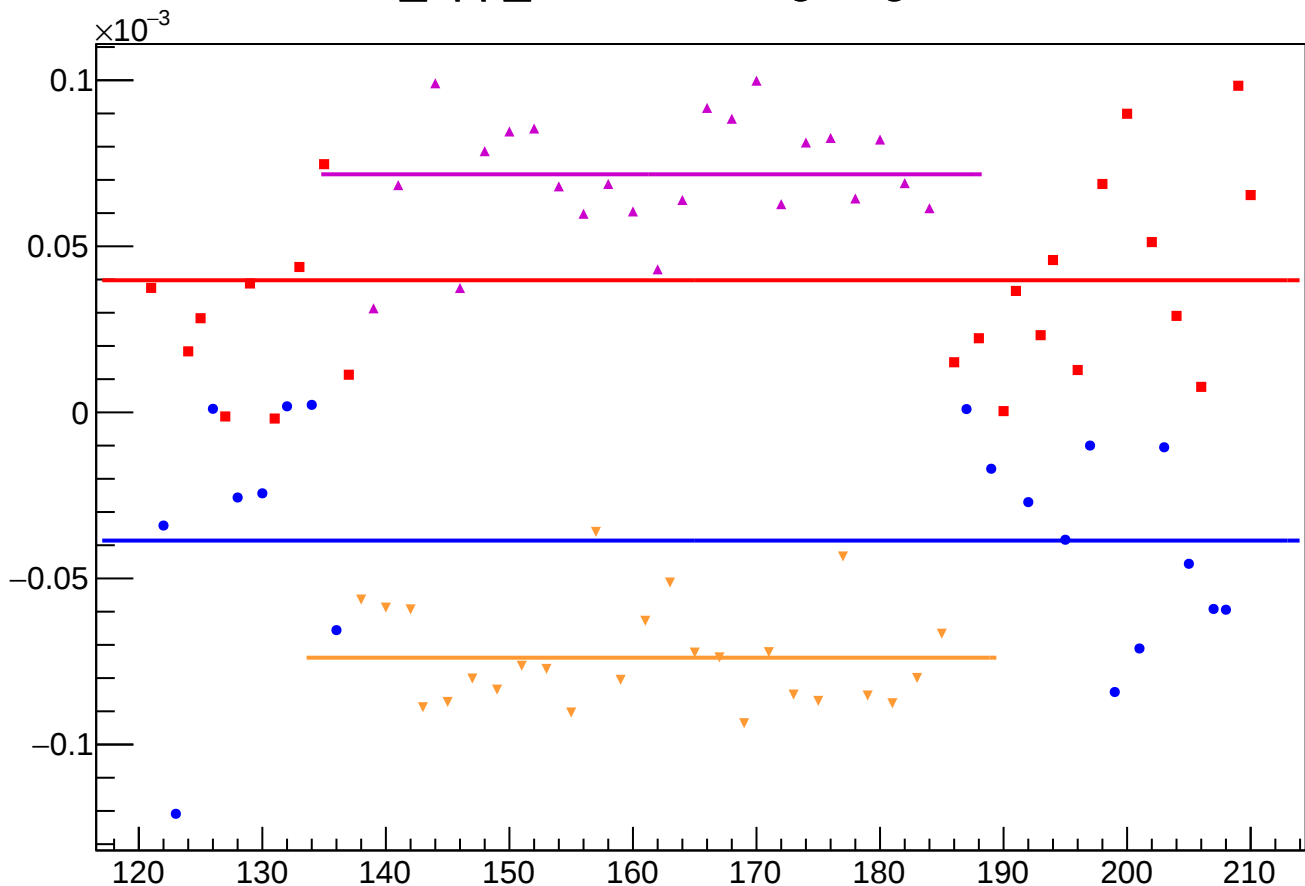
Right In: 89.566+/-0.000	χ^2/NDF : 3790406684485380507050727075479552.0/18	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -5.728+/-0.000	χ^2/NDF : 1954086484509705
Right Out: -89.959+/-0.000	χ^2/NDF : 3738064.7/22	In: -19.343+/-0.000	χ^2/NDF : 22091067468913336
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 16.206+/-0.000	χ^2/NDF : 24412764303775099
		All: -0.850+/-0.000	χ^2/NDF : 4844527808228

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2164.958 $\pm$ 0.000 χ^2 /NDF: 2188095653708624315587542384623222784.0/18
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.693 $\pm$ 0.000 χ^2 /NDF: 4832102084460551502582441840738304.0/22
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: -19.802 $\pm$ 0.000 χ^2 /NDF: 290585153626

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 800845618972012297846784.0/18

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1115927539054143097274368.0/22

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 56405243301707969

In: 0.000+/-0.000

χ^2/NDF : 9880153917813251171

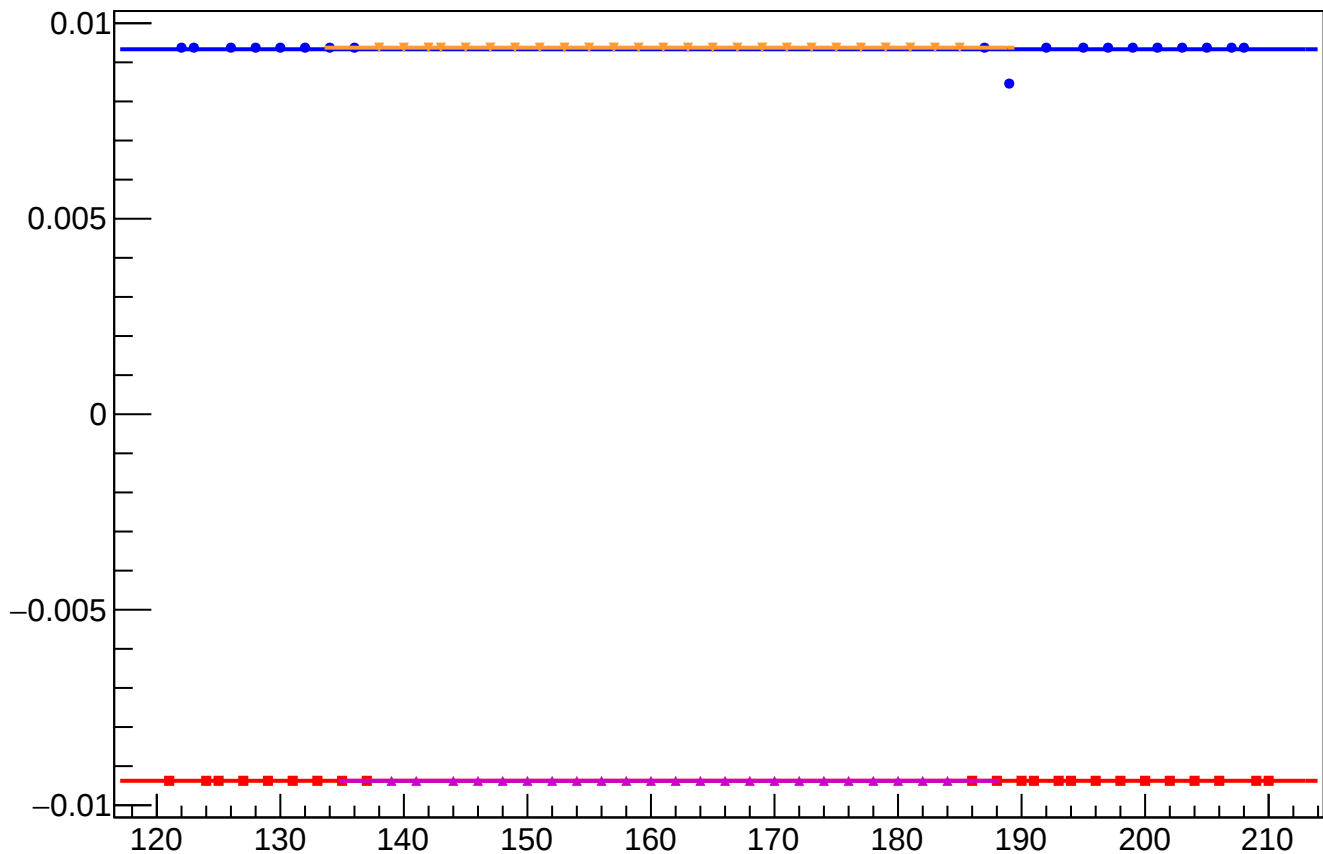
Out: -0.000+/-0.000

χ^2/NDF : 11518556593645146

All: -0.000+/-0.000

χ^2/NDF : 2639674913169

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000 χ^2/NDF : 2122224268954058

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.002+/-0.000 χ^2/NDF : 245184501662690302

Out: 0.002+/-0.000 χ^2/NDF : 270942477357900679

Right Out: -0.009+/-0.000

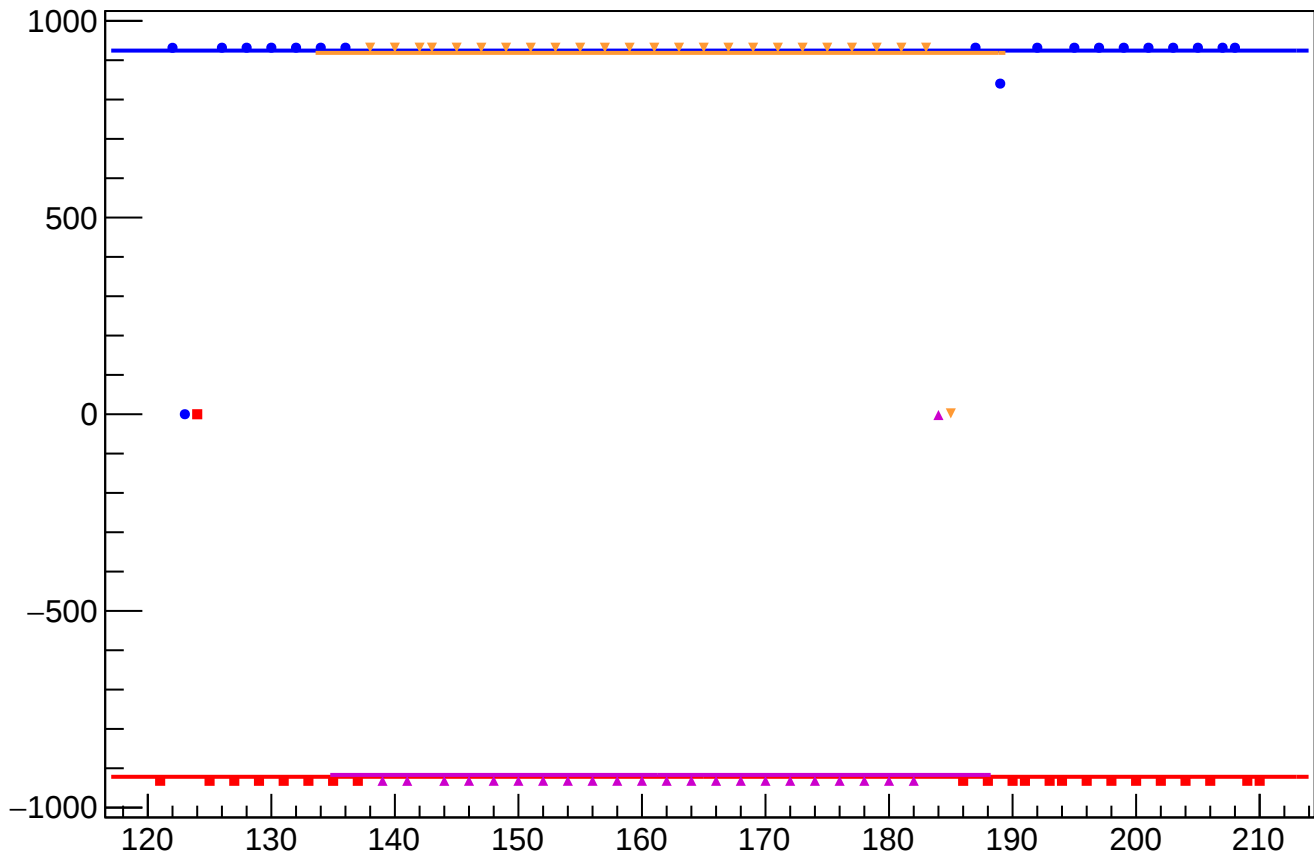
χ^2/NDF : 0.1/22

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

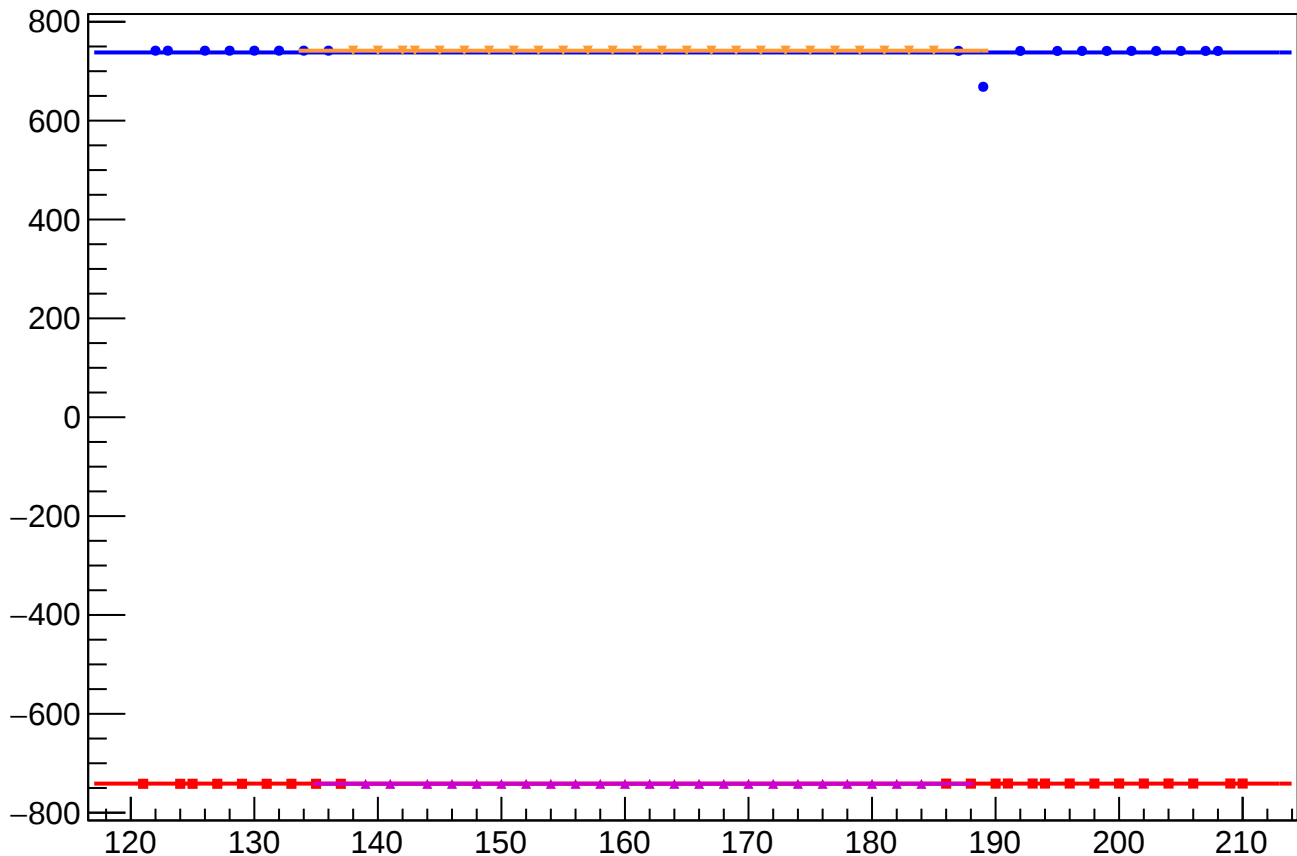
All: -0.000+/-0.000 χ^2/NDF : 5400861935985

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



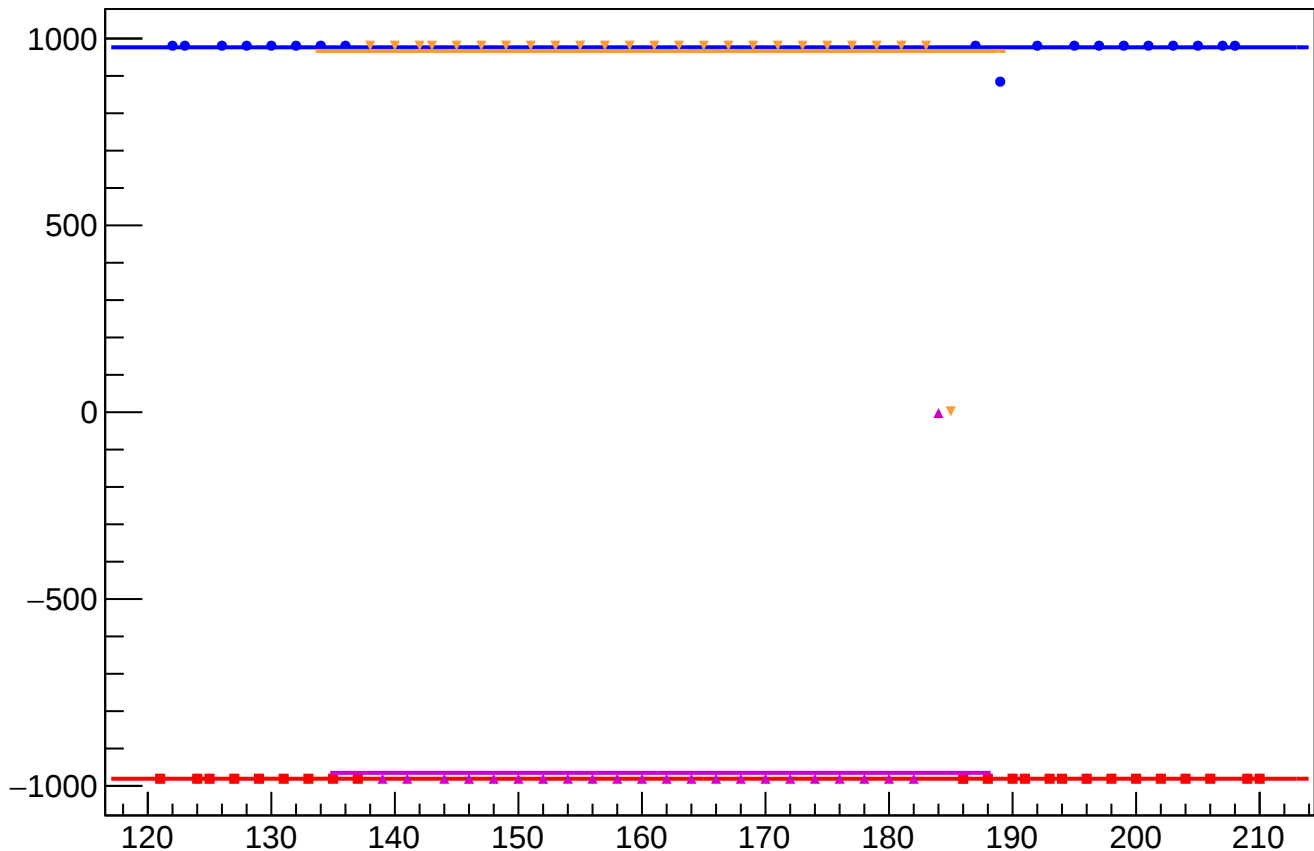
Right In: 924.447+/-0.000 χ^2/NDF : 3836233459820475590570397393303371776.0/18
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -921.702+/-0.000 χ^2/NDF : 12022932745873685744751418781858791424.0/22
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: -6.661+/-0.000 χ^2/NDF : 5271159364235

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.938+/-0.000	χ^2/NDF : 257449029585973523215828748515409920.0/18	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -47.191+/-0.000	χ^2/NDF : 132644715351398
Right Out: -741.167+/-0.000	χ^2/NDF : 57514526033067242425574829850624.0/22	In: -169.372+/-0.000	χ^2/NDF : 1533185018152660
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 143.255+/-0.000	χ^2/NDF : 1694217574775316
	All: -6.735+/-0.000	χ^2/NDF : 3377546633729	

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 976.519+/-0.000

χ^2/NDF : 450655130738622036092167746991685632.0/18

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.819+/-0.000

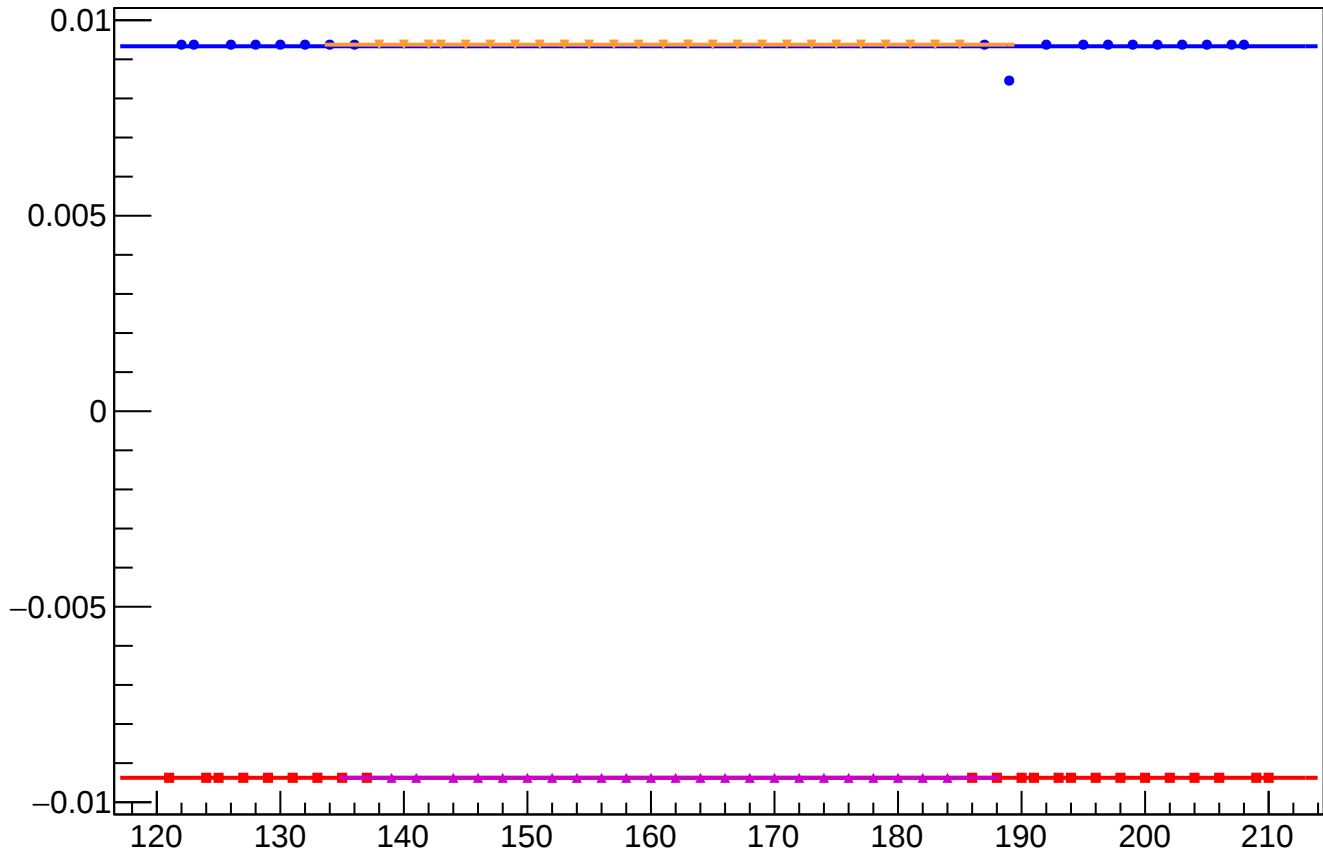
χ^2/NDF : 3430426565835985262295061102592.0/22

Left In: -965.102+/-0.000

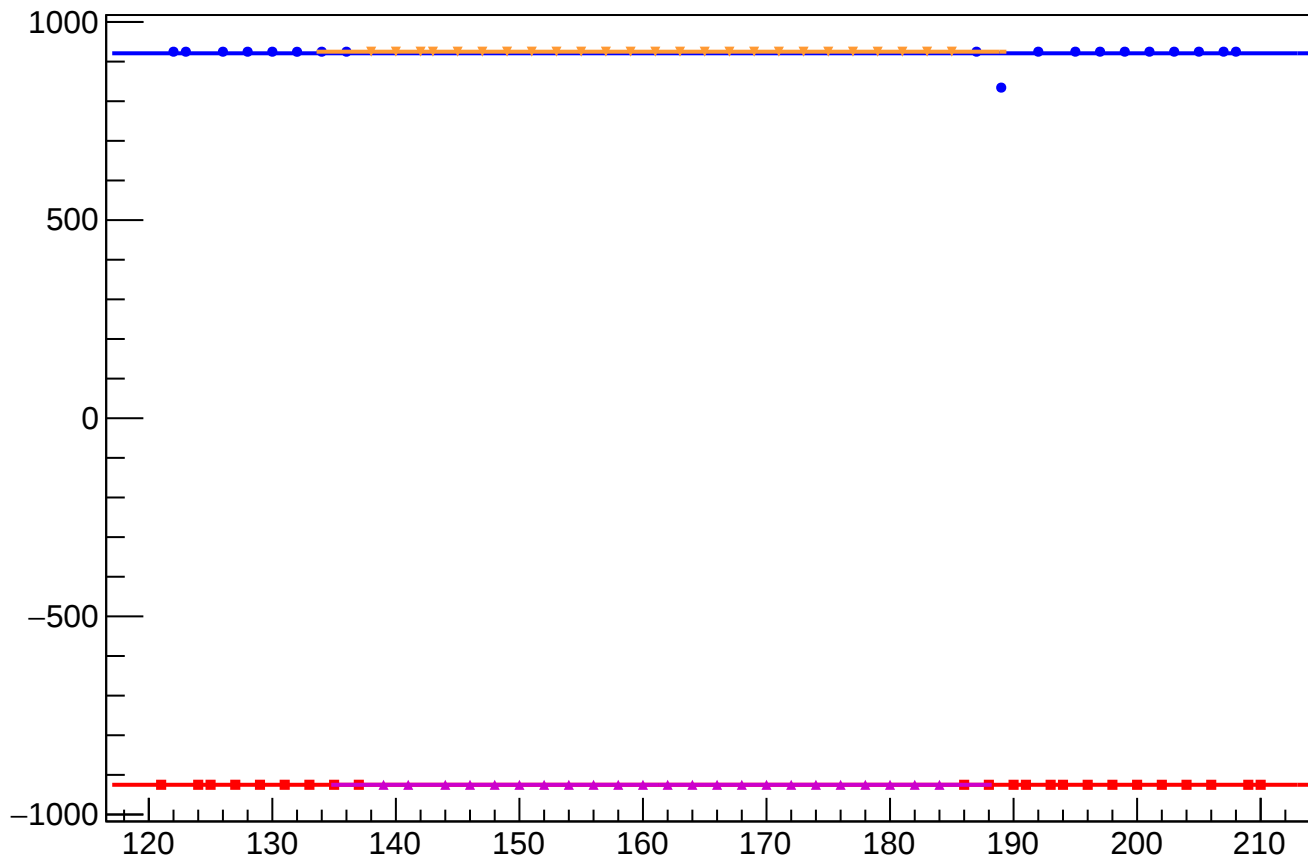
χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -8.609+/-0.000 χ^2/NDF : 5857309660051

MQ172RM_mean vs Slug, Sign Corrected



HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.943+/-0.000 χ^2/NDF : 400380759699512062843030744065900544.0/18

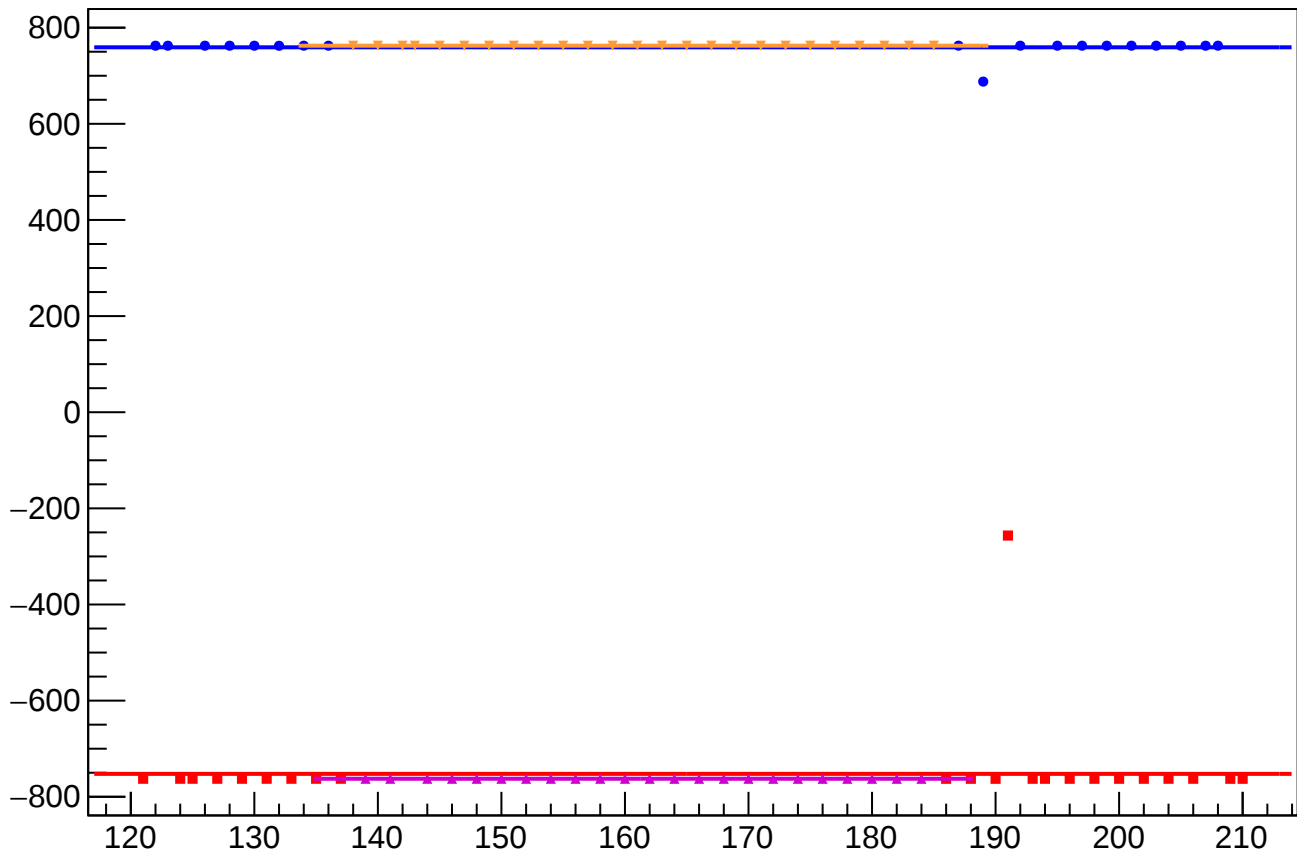
Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.998+/-0.000 χ^2/NDF : 886728503900539774525983686656.0/22

Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22

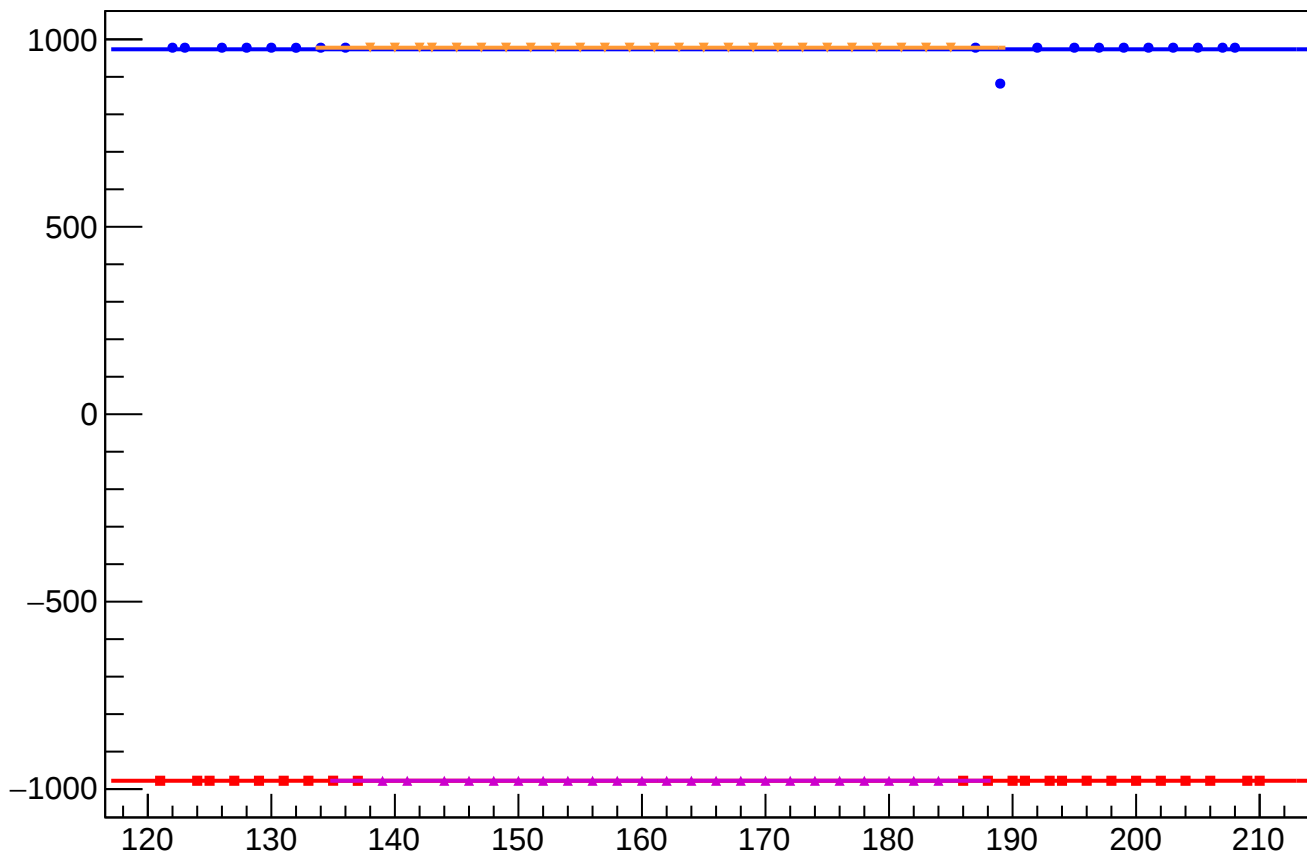
All: -8.417+/-0.000 χ^2/NDF : 5257661405274

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 759.176+/-0.000 χ^2/NDF : 271879760829879660672924421460066304.0/18
 Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -752.351+/-0.000 χ^2/NDF : 6522504740318365482614808908125962240.0/22
 Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: -4.804+/-0.000 χ^2/NDF : 3559673316974

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.479+/-0.000 χ^2/NDF : 447525266667319403509411812915281920.0/18

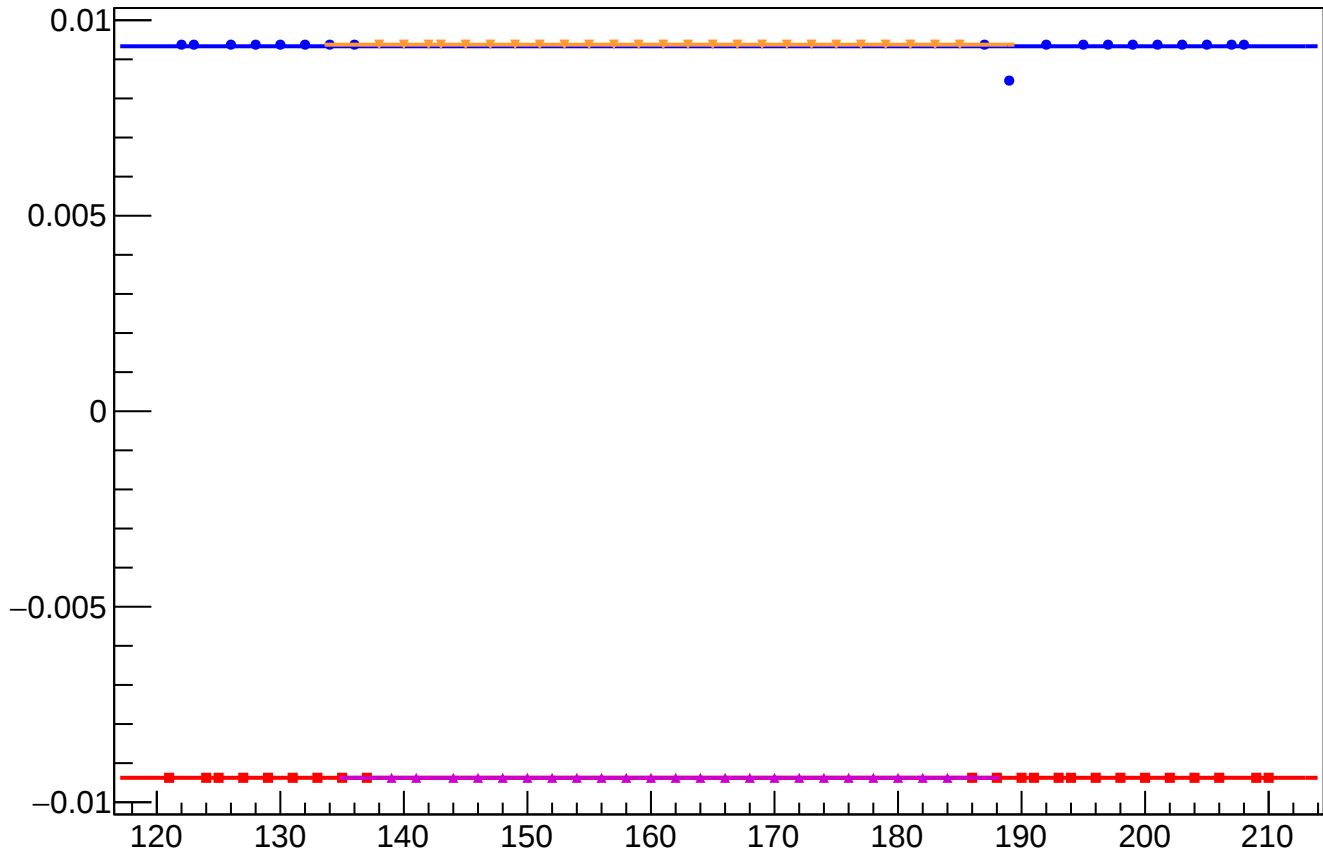
Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.756+/-0.000 χ^2/NDF : 1845820100196957469075572785152.0/22

Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22

All: -8.895+/-0.000 χ^2/NDF : 5874508820906

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/22

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 : 2122224268954058

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

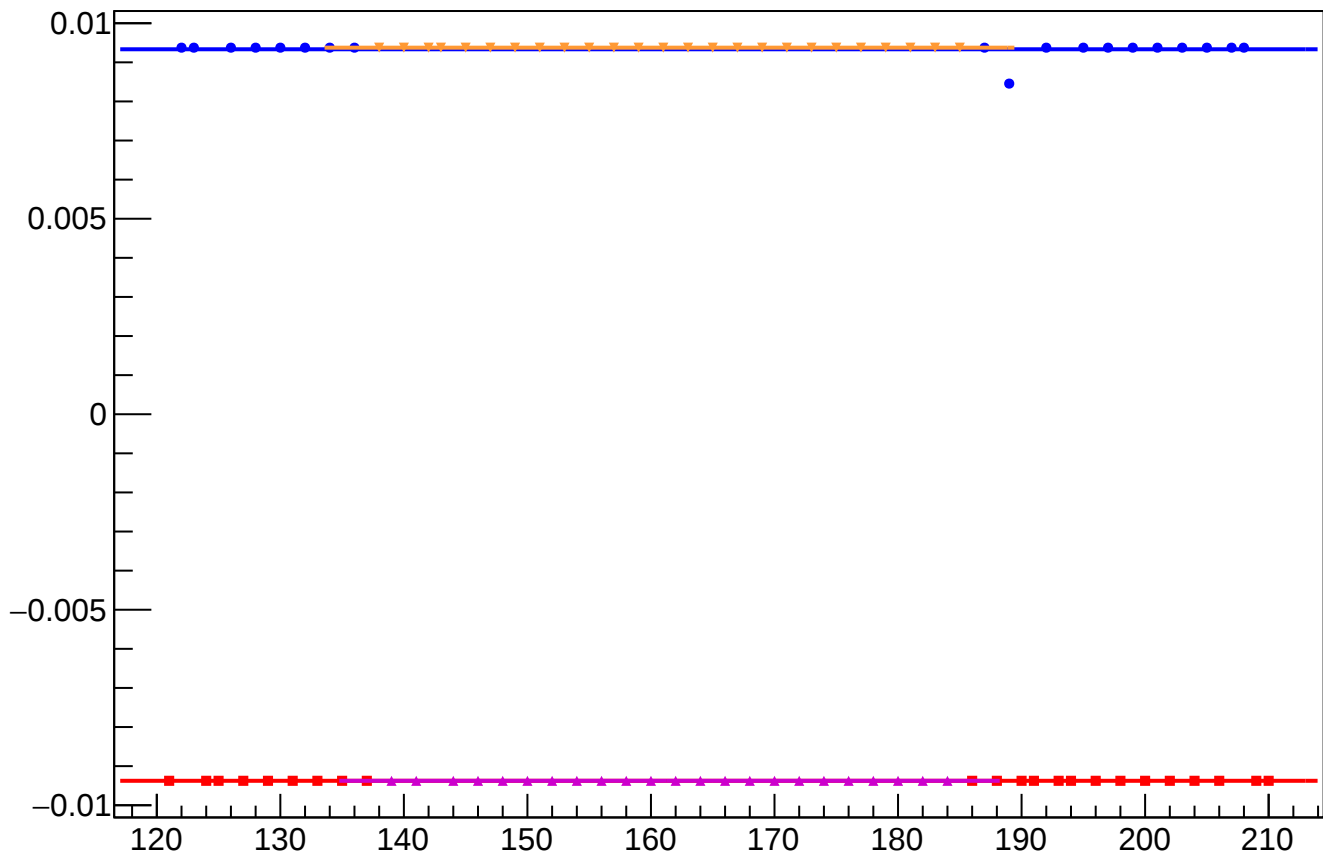
Out: 0.002+/-0.000

χ^2/NDF : 270942477357900679

All: -0.000+/-0.000

χ^2/NDF : 5400861935985

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/22

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 : 2122224268954058

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

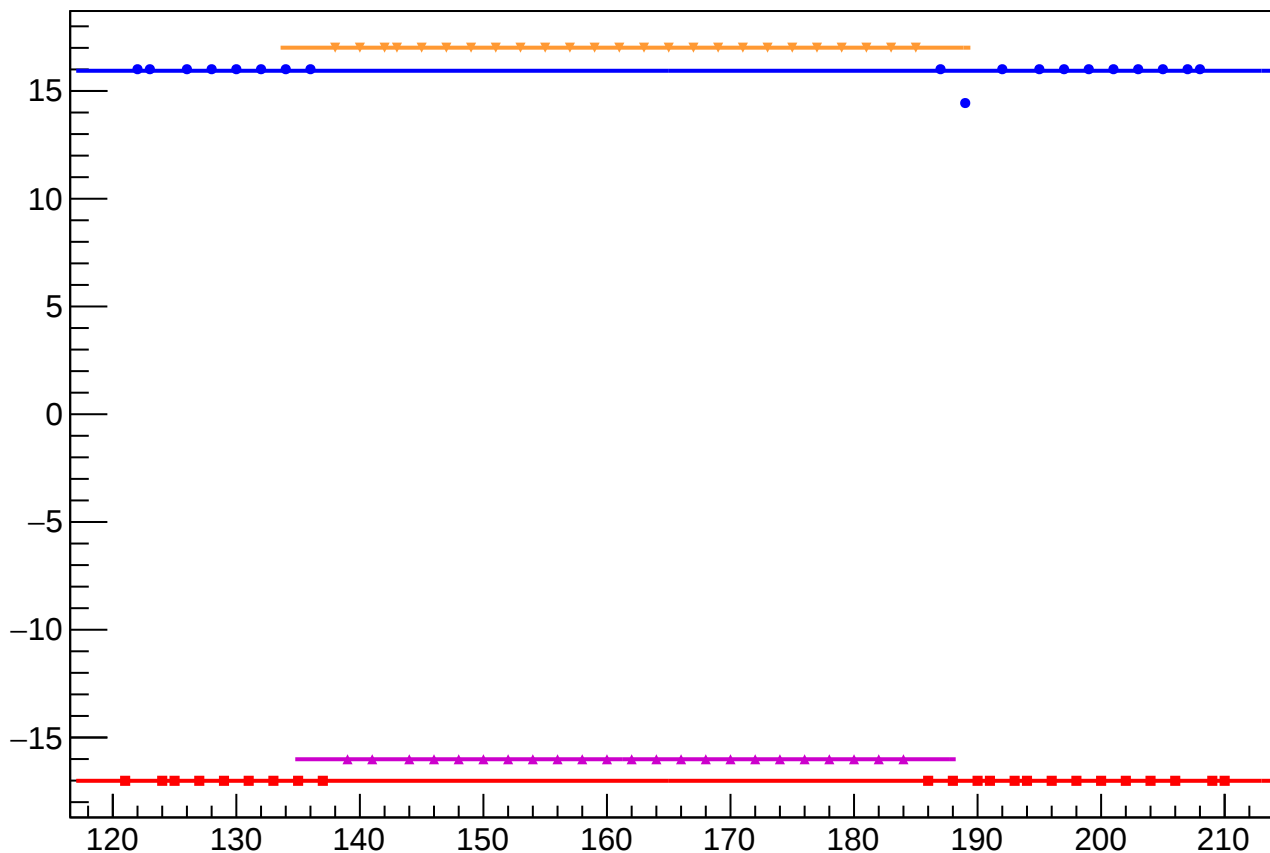
Out: 0.002+/-0.000

χ^2/NDF : 270942477357900679

All: -0.000+/-0.000

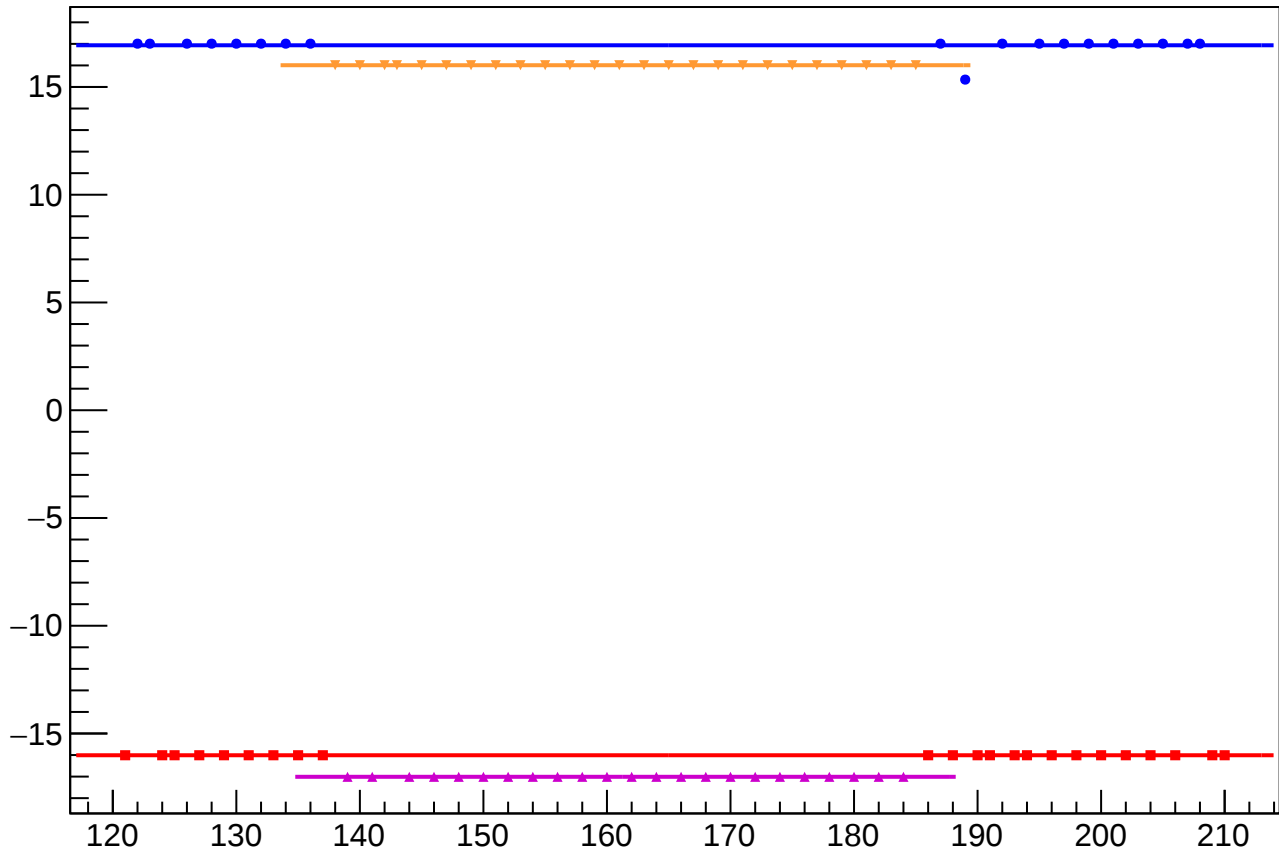
χ^2/NDF : 5400861935985

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



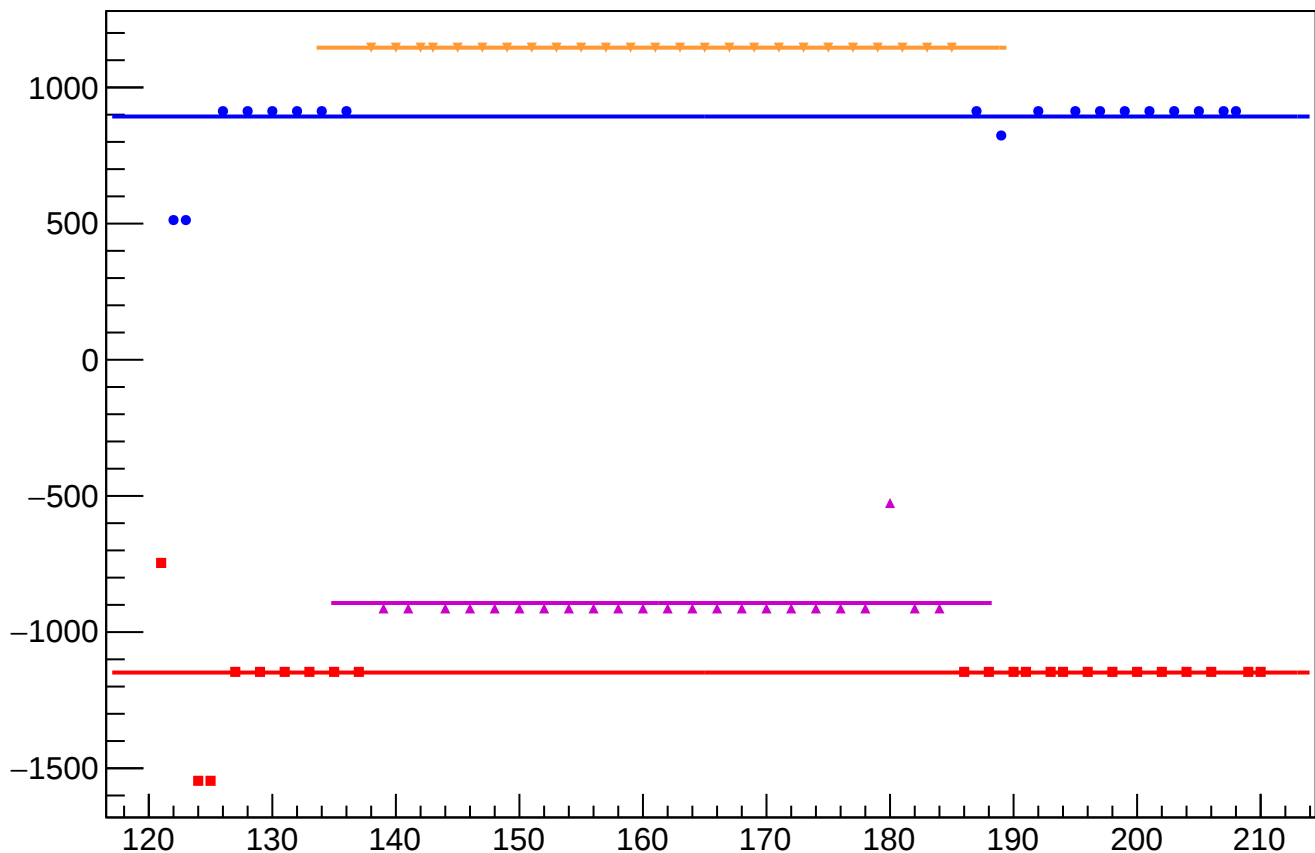
Right In: 15.938 $\pm$ 0.000 χ^2 /NDF: 119895360382147696561057804845056.0/18
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 16739364759151873221459968.0/22
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: -0.114 $\pm$ 0.000 χ^2 /NDF: 1597571268362

IGL1I00OD16_16_mean vs Slug, Sign Corrected



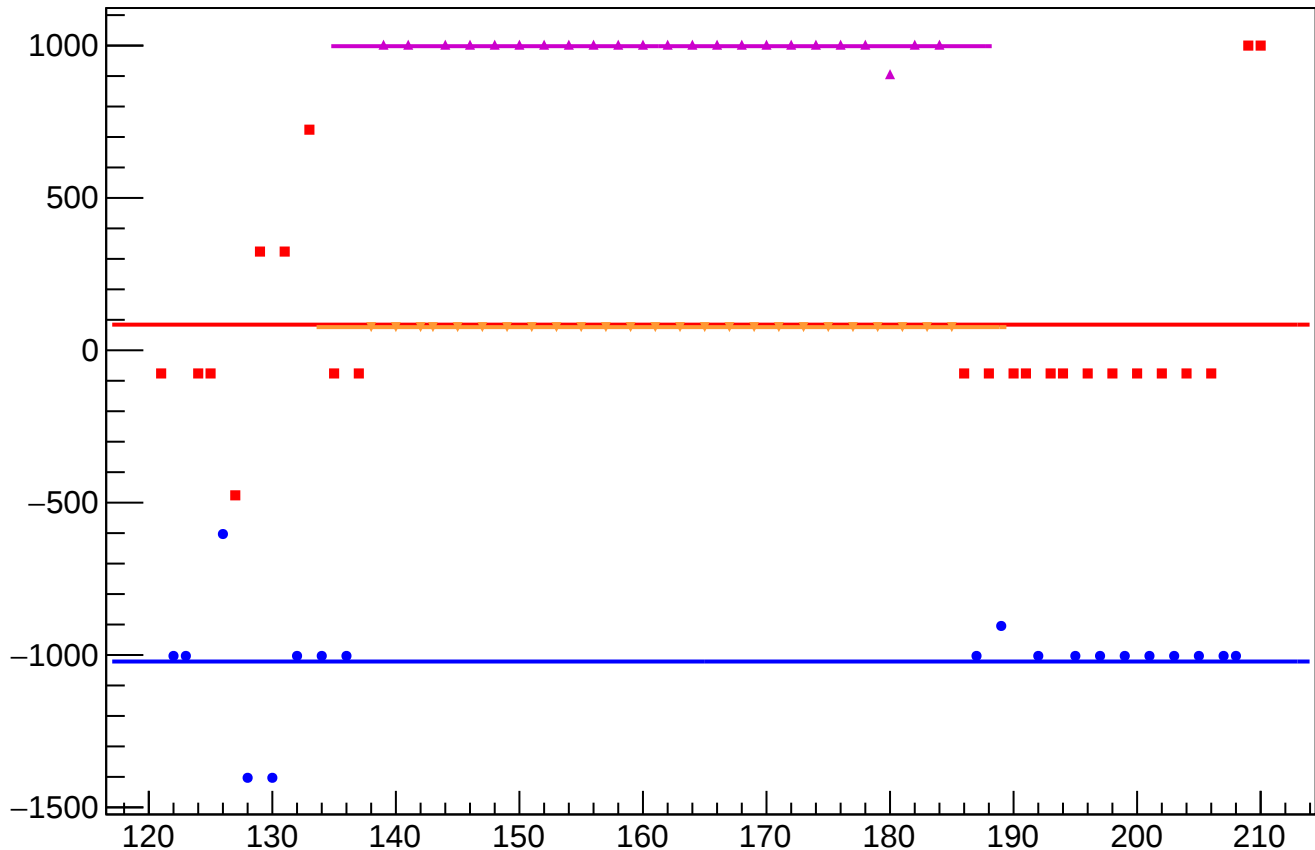
Right In: 16.935+/-0.000	χ^2/NDF : 135488894634439819872184213438464.0/18	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.552+/-0.000	χ^2/NDF : 6580477242099992
Right Out: -16.009+/-0.000	χ^2/NDF : 248257.7/22	In: -3.679+/-0.000	χ^2/NDF : 799225018525802169
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 2.992+/-0.000	χ^2/NDF : 786066078998289991
		All: -0.195+/-0.000	χ^2/NDF : 1652876862972

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right: -190.538+/-0.000 χ^2/NDF : 25478898065034
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right In: 893.235+/-0.000 χ^2/NDF : 7162803620615259975947230001085022208.0/18
 Right Out: -1148.486+/-0.000 χ^2/NDF : 13752743033818143538377068393497886720.0/22
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 17.494+/-0.000 χ^2/NDF : 6600630550173

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1021.365+/-0.000

χ^2/NDF : 23307181010837152201373985787760082944.0/18

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 84.184+/-0.000

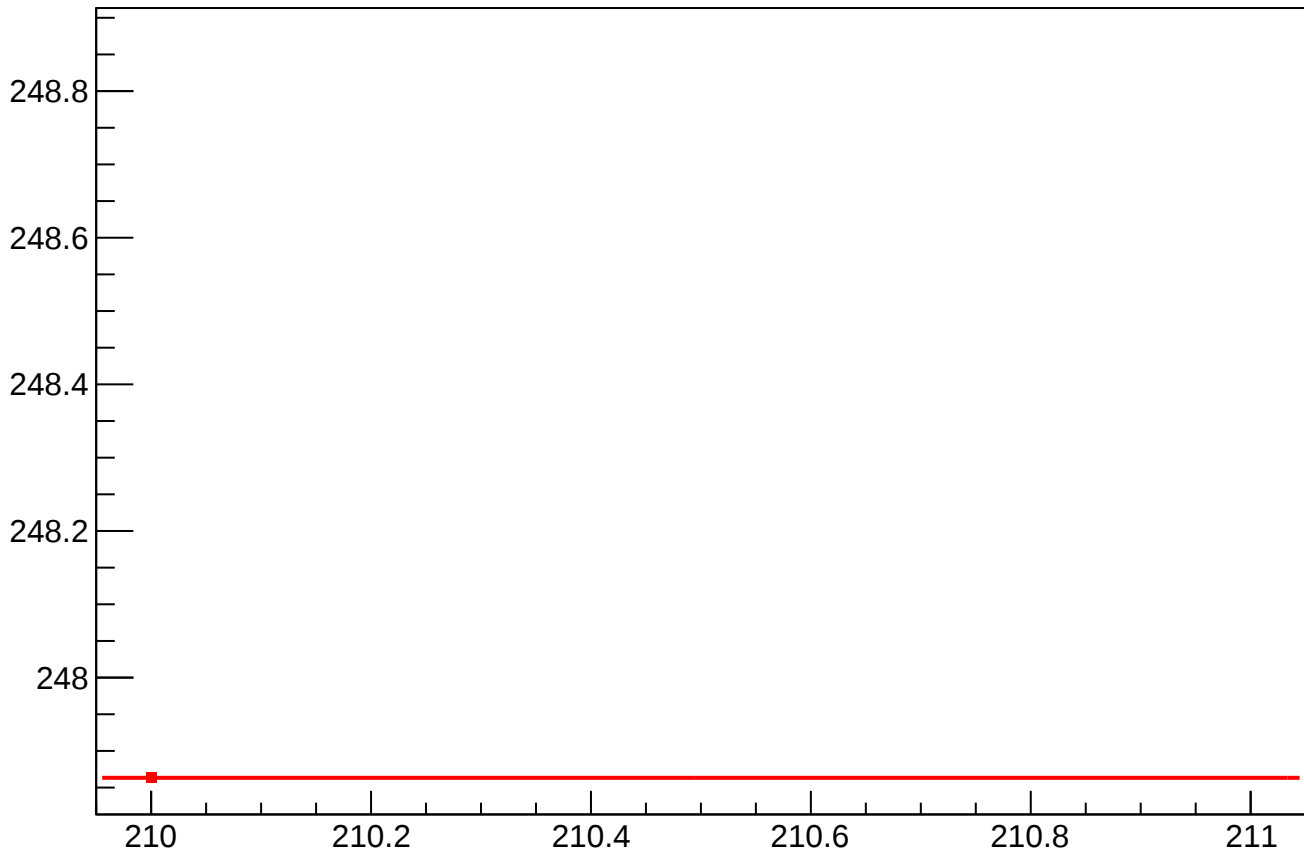
χ^2/NDF : 184075657657983320267883731273664954368.0/22

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 145.404+/-0.000 χ^2/NDF : 309342402818

RTPPITA1CNT_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: 247.863+/-0.000 χ^2/NDF : 58161.1/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

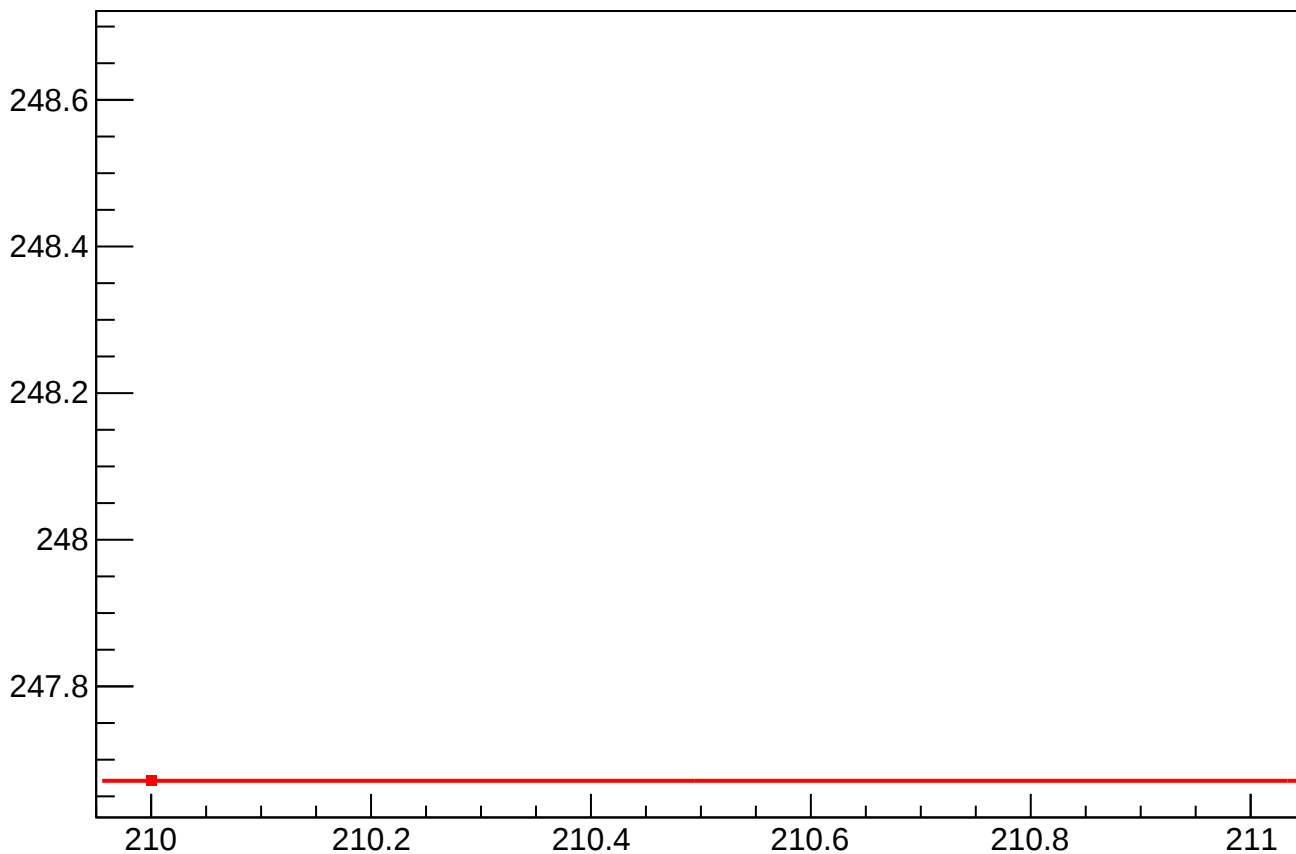
Right: 247.863+/-0.000 χ^2/NDF : 58161.1/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 247.863+/-0.000 χ^2/NDF : 58161.1/0

RTPPITA2CNT_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: 247.671+/-0.000 χ^2/NDF : 58161.1/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 247.671+/-0.000 χ^2/NDF : 58161.1/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 247.671+/-0.000 χ^2/NDF : 58161.1/0