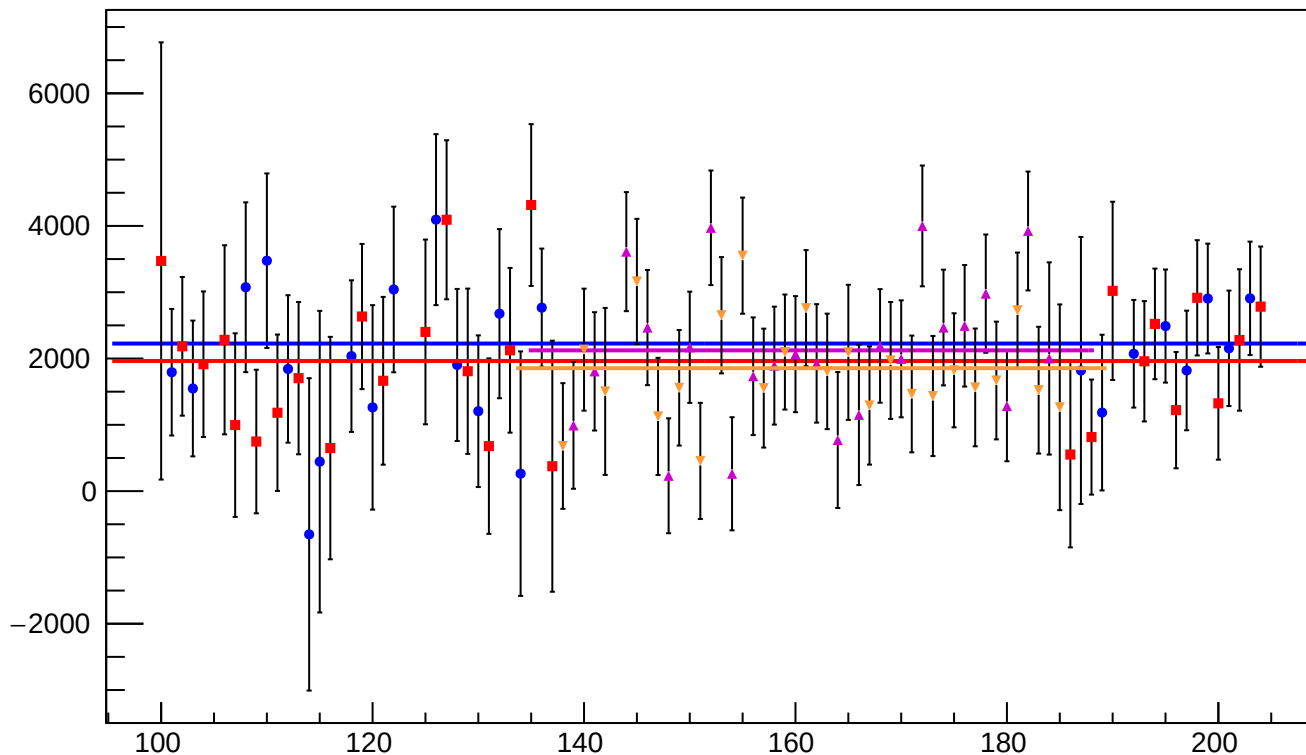


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2225.908+/-224.870

Left Out: 1854.267+/-187.405

Right Out: 1963.304+/-212.423

Left In: 2123.138+/-188.684

χ^2/NDF : 12.1/23

χ^2/NDF : 15.1/23

χ^2/NDF : 19.4/27

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2087.137+/-154.418

In: 2165.599+/-144.542

Out: 1901.990+/-140.532

All: 2030.087+/-100.759

χ^2/NDF : 48.1/46

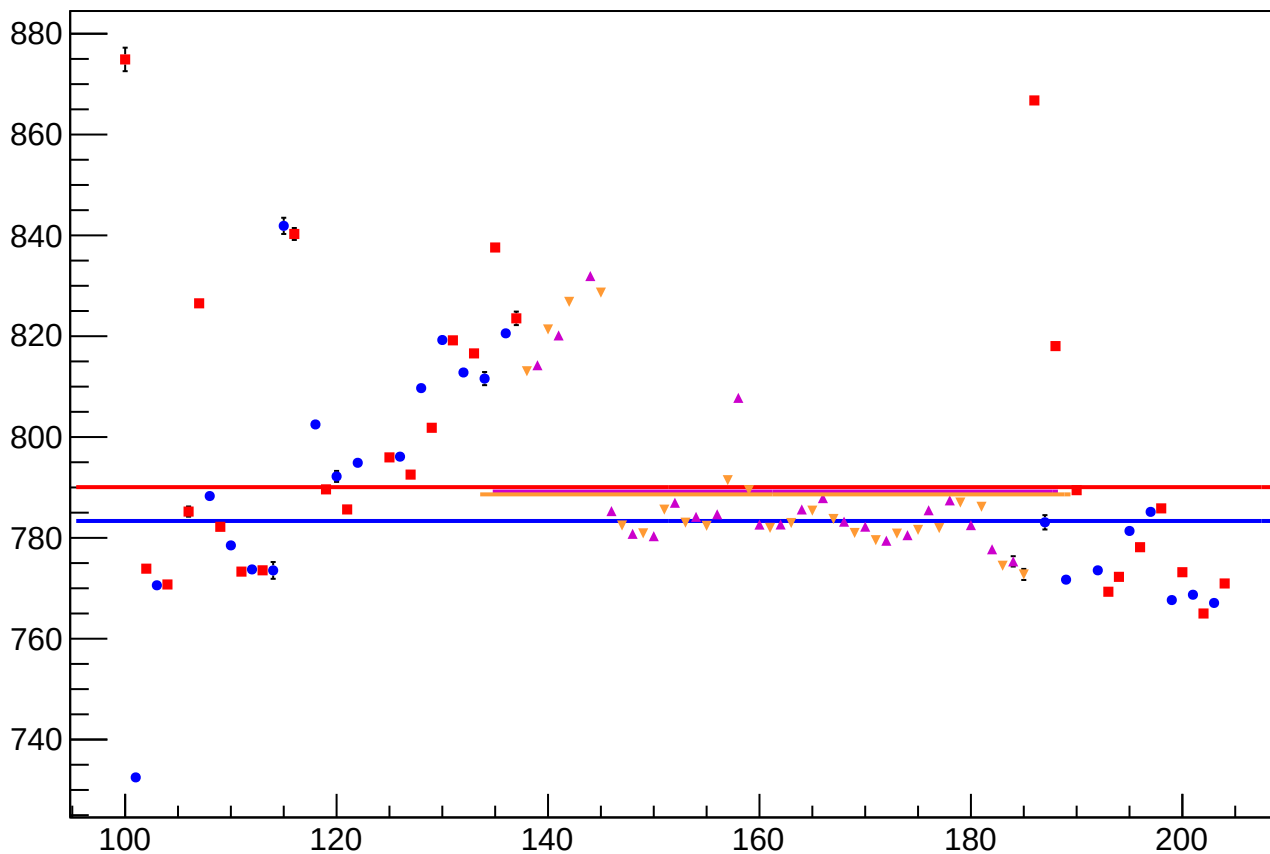
χ^2/NDF : 32.3/51

χ^2/NDF : 44.3/46

χ^2/NDF : 34.7/51

χ^2/NDF : 80.7/98

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 783.353 ± 0.159 $\chi^2/\text{NDF}: 19109.2/23$

Left Out: 788.629 ± 0.133 $\chi^2/\text{NDF}: 11478.1/23$

Right Out: 790.064 ± 0.150 $\chi^2/\text{NDF}: 25564.3/27$

Left In: 789.185 ± 0.133 $\chi^2/\text{NDF}: 11343.2/22$

Left: 788.905 ± 0.094 $\chi^2/\text{NDF}: 22830.1/46$

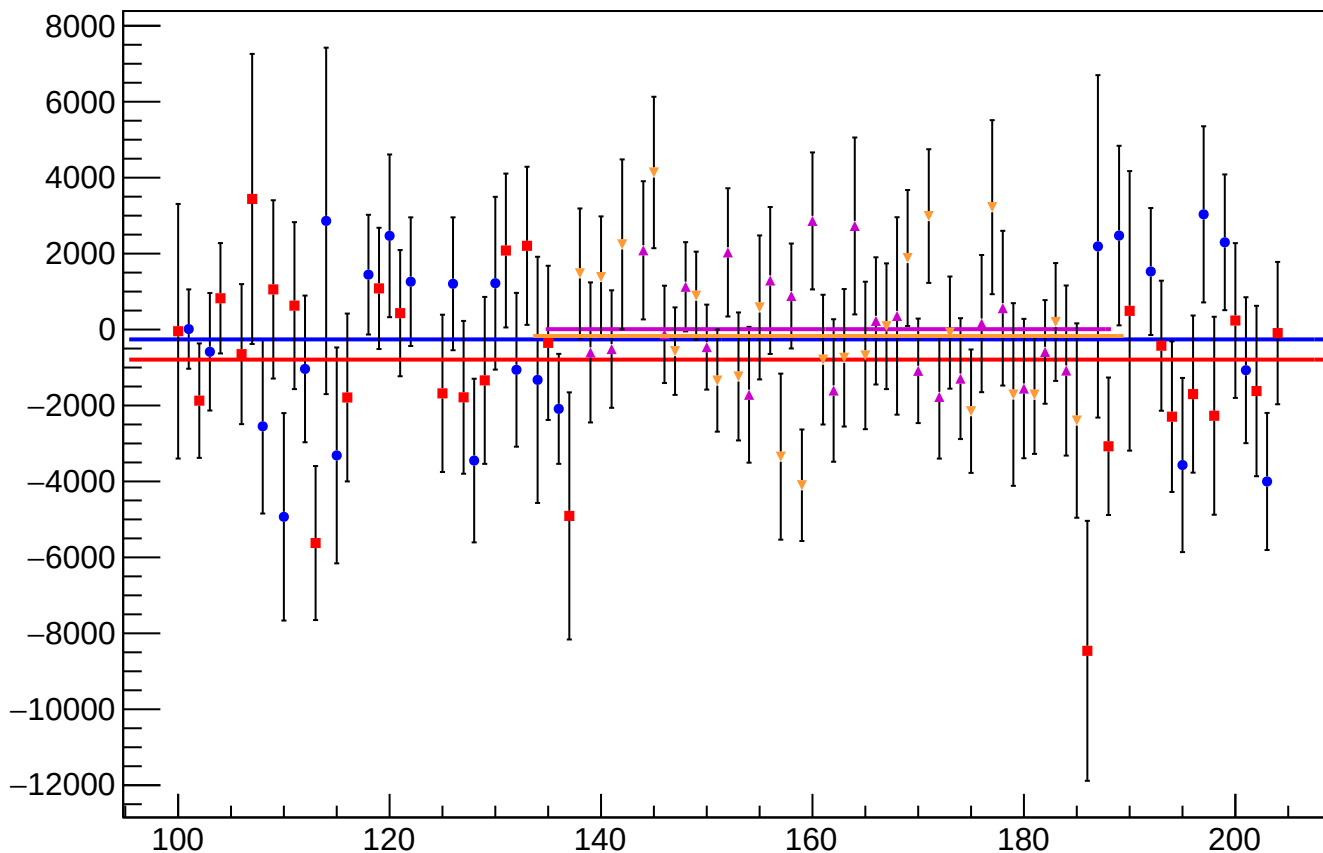
Right: 786.899 ± 0.109 $\chi^2/\text{NDF}: 45614.8/51$

In: 786.775 ± 0.102 $\chi^2/\text{NDF}: 31241.8/46$

Out: 789.257 ± 0.099 $\chi^2/\text{NDF}: 37093.7/51$

All: 788.051 ± 0.071 $\chi^2/\text{NDF}: 68638.7/98$

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -259.159+/-393.203 χ^2/NDF : 28.0/23

Left Out: -169.172+/-340.391 χ^2/NDF : 30.0/23

Right Out: -791.496+/-388.711 χ^2/NDF : 26.5/27

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

Left: -78.858+/-239.775 χ^2/NDF : 44.4/46

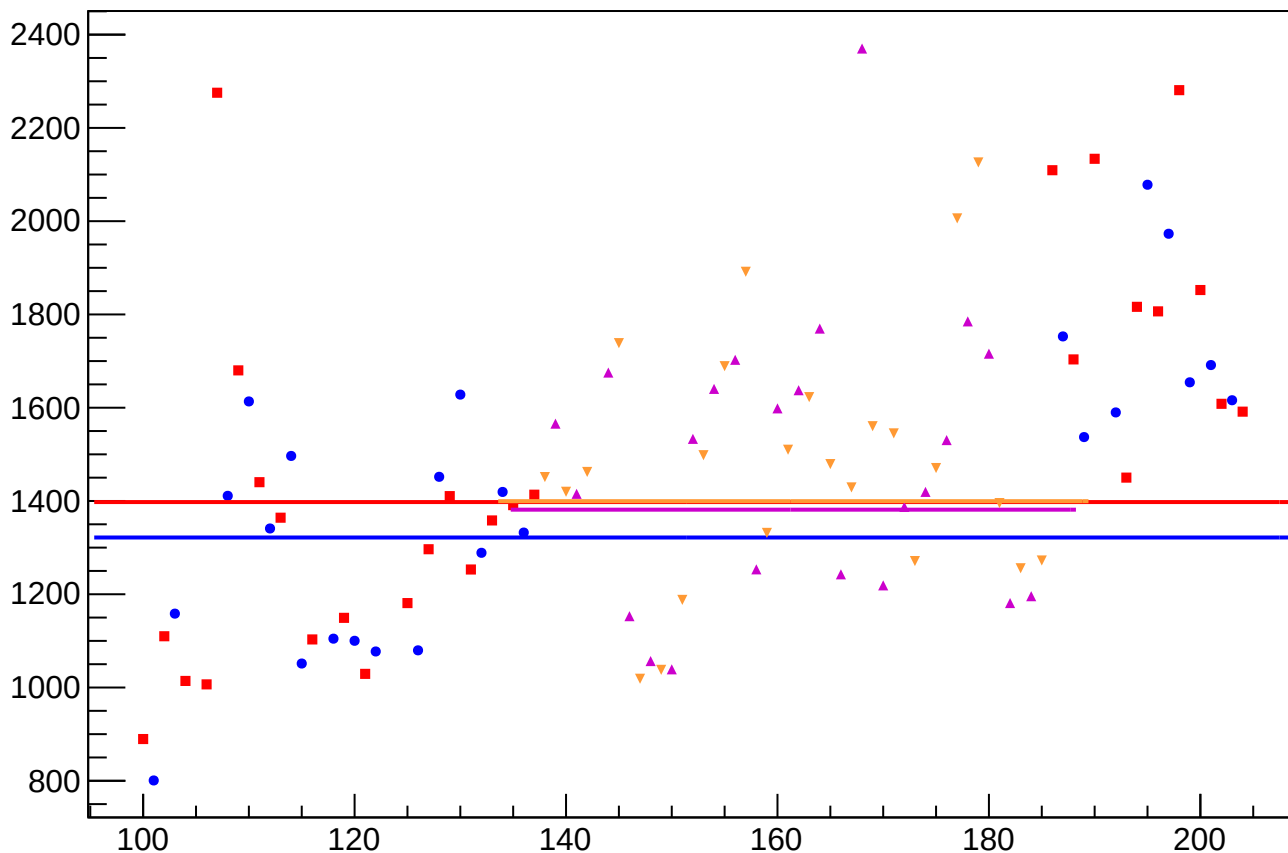
Right: -528.385+/-276.435 χ^2/NDF : 55.4/51

In: -104.247+/-256.233 χ^2/NDF : 42.5/46

Out: -439.271+/-256.083 χ^2/NDF : 57.9/51

All: -271.858+/-181.131 χ^2/NDF : 101.3/98

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1321.704+/-0.278 χ^2/NDF : 1409499.5/23

Left Out: 1399.587+/-0.241 χ^2/NDF : 1119125.1/23

Right Out: 1397.686+/-0.275 χ^2/NDF : 1464780.6/27

Left In: 1381.359+/-0.239 χ^2/NDF : 1276488.2/22

Left: 1390.403+/-0.170 χ^2/NDF : 2398502.8/46

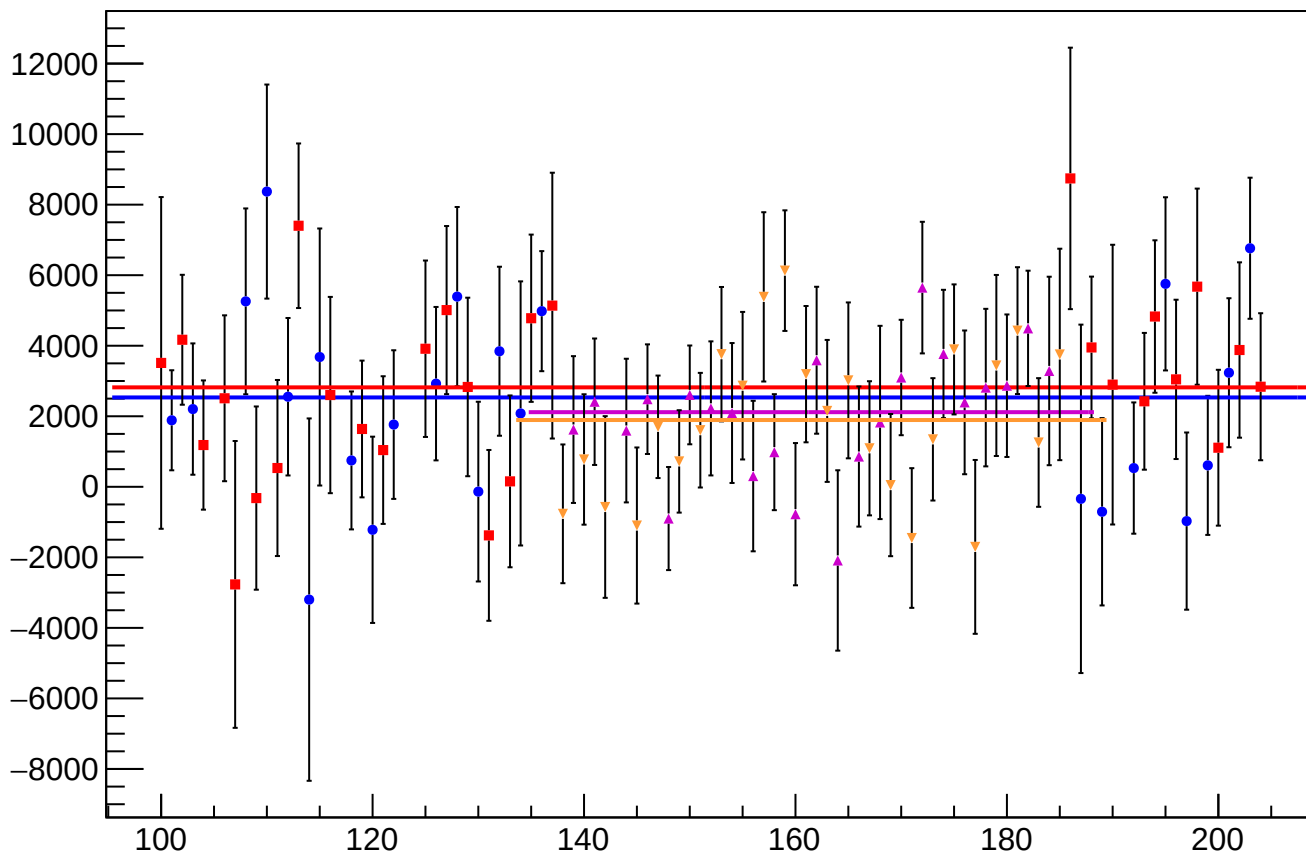
Right: 1360.132+/-0.195 χ^2/NDF : 2912050.1/51

In: 1356.026+/-0.181 χ^2/NDF : 2712473.2/46

Out: 1398.762+/-0.181 χ^2/NDF : 2583932.8/51

All: 1377.406+/-0.128 χ^2/NDF : 5324239.5/98

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2533.830 $\pm$ 465.234 χ^2 /NDF: 26.3/23

Left Out: 1893.469 $\pm$ 394.877 χ^2 /NDF:25.9/23

Right Out: 2819.356 $\pm$ 453.572 χ^2 /NDF: 22.4/27

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

Left: 2005.323 $\pm$ 278.553 χ^2 /NDF: 44.9/46

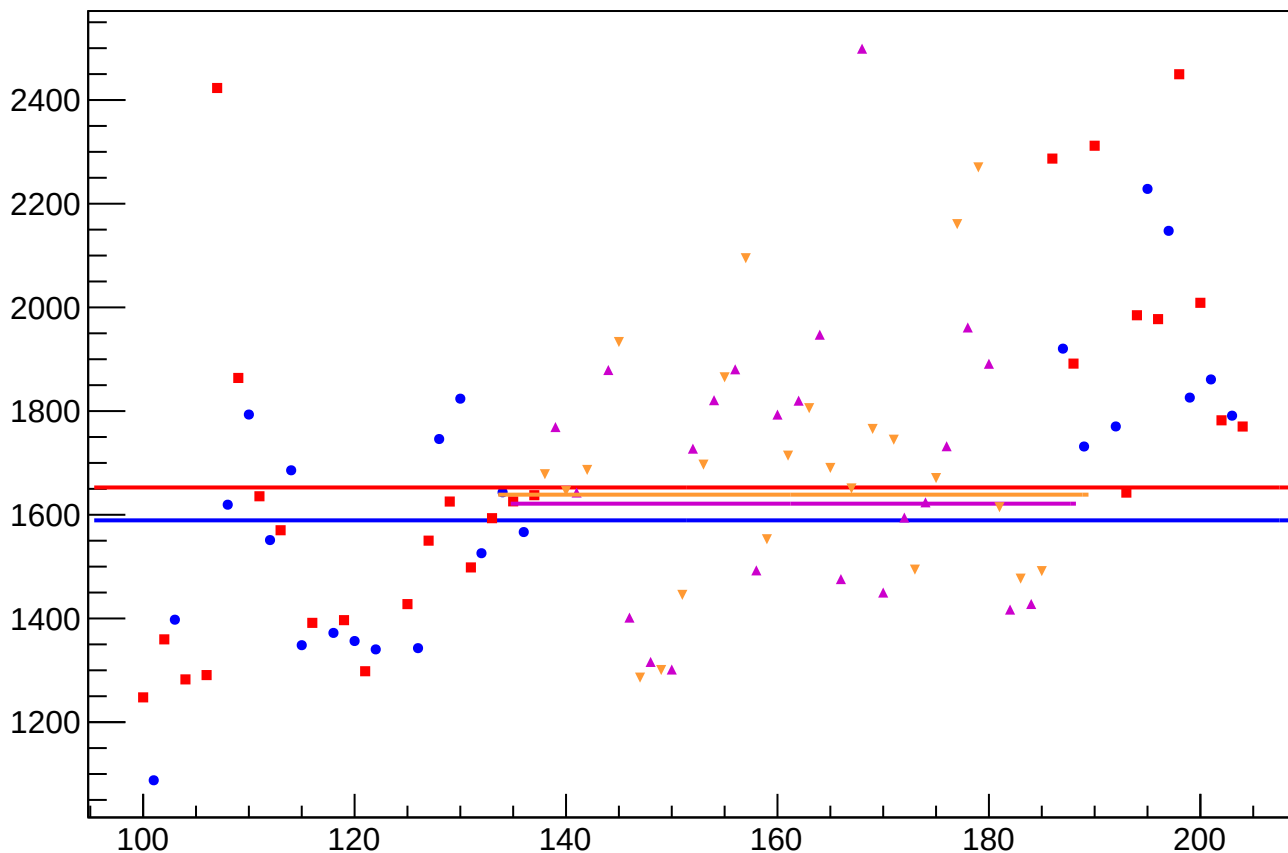
Right: 2680.216 $\pm$ 324.768 χ^2 /NDF: 48.9/51

In: 2290.060 $\pm$ 300.219 χ^2 /NDF:45.6/46

Out: 2292.665 $\pm$ 297.825 χ^2 /NDF:50.7/51

All: 2291.373 $\pm$ 211.435 χ^2 /NDF: 96.3/98

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1589.233 $\pm$ 0.329 χ^2/NDF : 761416.6/23

Left Out: 1638.806 $\pm$ 0.279 χ^2/NDF : 671906.6/23

Right Out: 1652.679 $\pm$ 0.321 χ^2/NDF : 880448.4/27

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

Left: 1630.070 $\pm$ 0.197 χ^2/NDF : 1449165.3/46

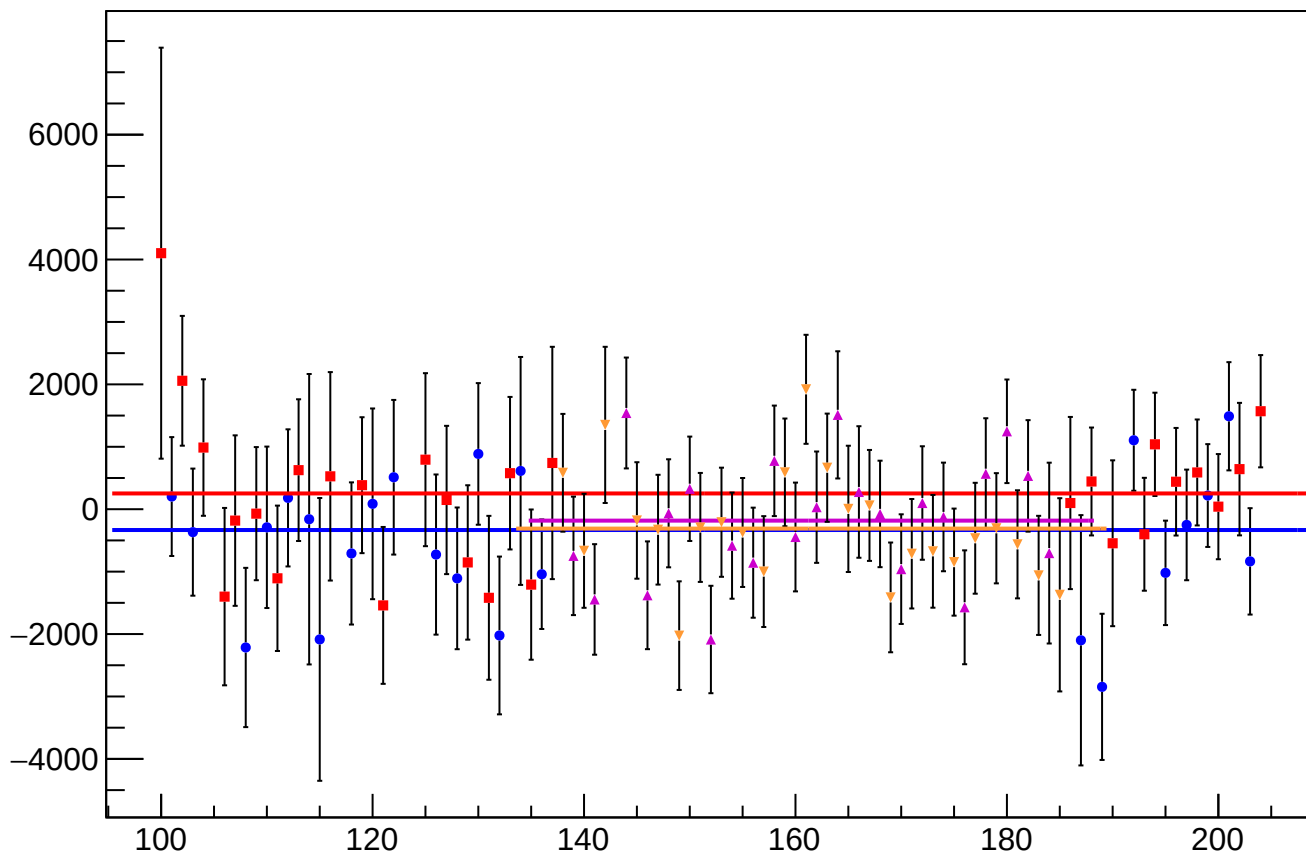
Right: 1621.761 $\pm$ 0.230 χ^2/NDF : 1660934.5/51

In: 1608.015 $\pm$ 0.212 χ^2/NDF : 1542312.1/46

Out: 1644.787 $\pm$ 0.211 χ^2/NDF : 1553419.2/51

All: 1626.548 $\pm$ 0.150 χ^2/NDF : 3110854.0/98

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -333.404 $\pm$ 222.948 χ^2/NDF : 22.8/23

Left Out: -310.563 $\pm$ 186.538 χ^2/NDF :20.0/23

Right Out: 252.497 $\pm$ 210.307 χ^2/NDF : 18.5/27

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

Left: -247.165 $\pm$ 132.352 χ^2/NDF : 46.4/46

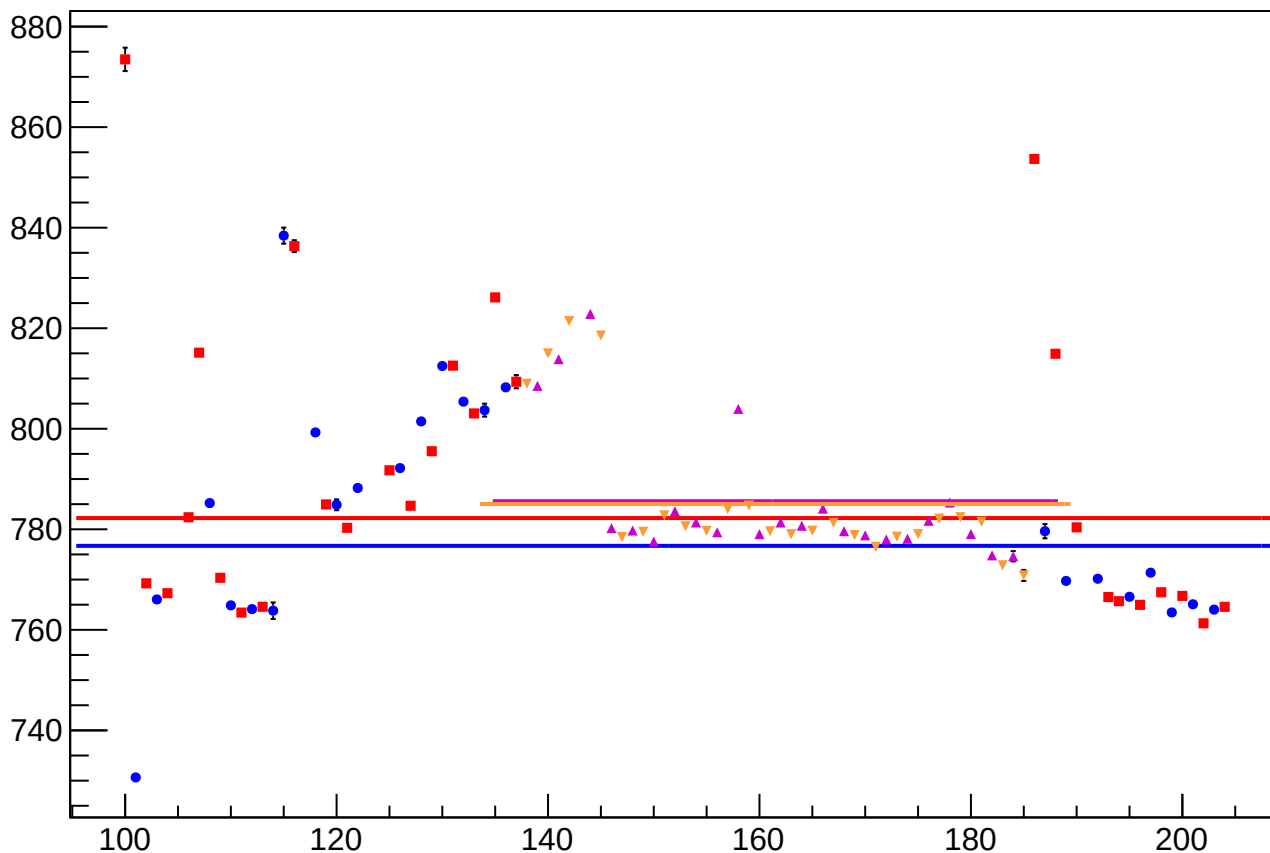
Right: -23.373 $\pm$ 152.983 χ^2/NDF : 45.0/51

In: -245.371 $\pm$ 143.641 χ^2/NDF :49.2/46

Out: -62.637 $\pm$ 139.552 χ^2/NDF :42.6/51

All: -151.366 $\pm$ 100.093 χ^2/NDF : 92.6/98

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 776.707 $\pm$ 0.158 χ^2/NDF : 17153.8/23

Left Out: 785.031 $\pm$ 0.132 χ^2/NDF : 9367.9/23

Right Out: 782.238 $\pm$ 0.149 χ^2/NDF : 25086.5/27

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

Left: 785.309 $\pm$ 0.094 χ^2/NDF : 18750.6/46

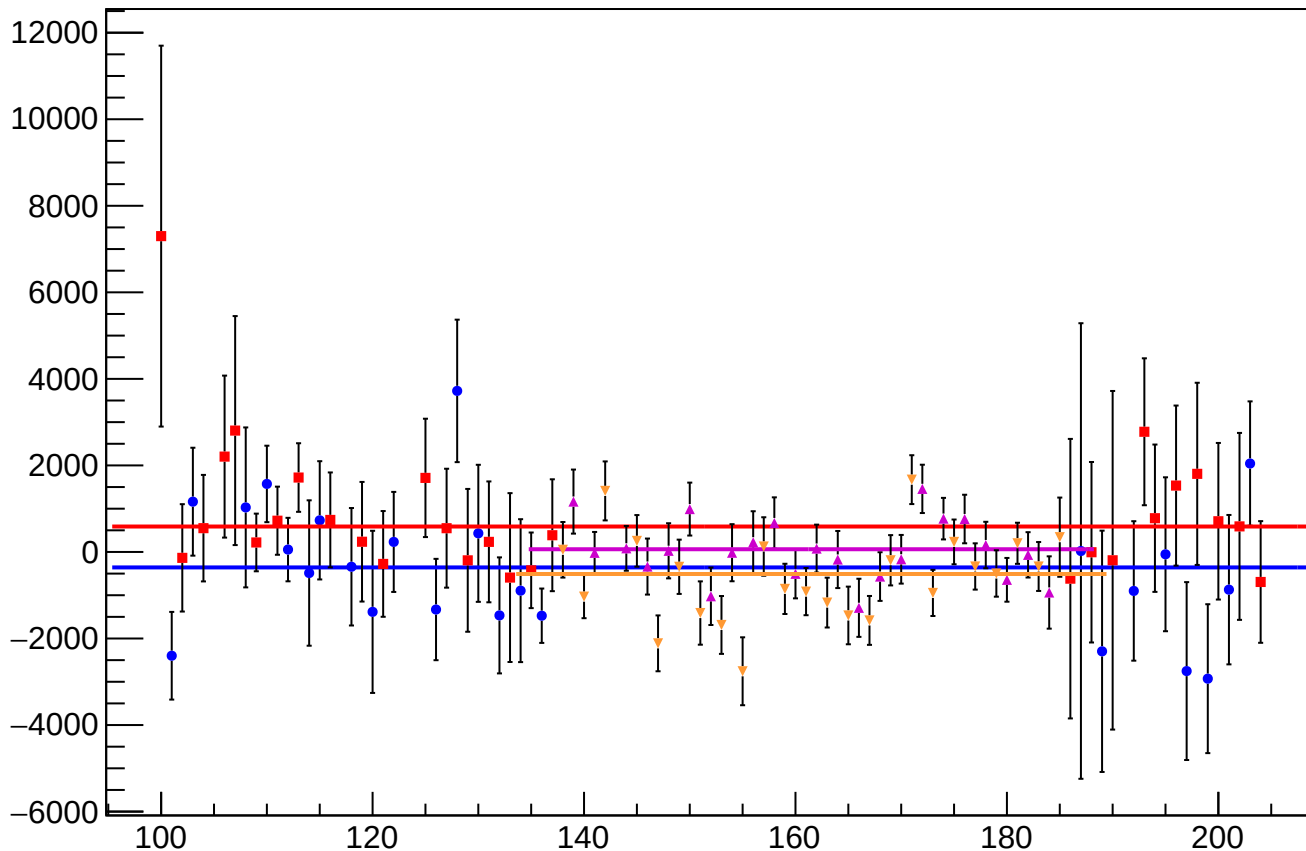
Right: 779.634 $\pm$ 0.108 χ^2/NDF : 42891.9/51

In: 781.904 $\pm$ 0.102 χ^2/NDF : 28385.7/46

Out: 783.801 $\pm$ 0.099 χ^2/NDF : 34651.7/51

All: 782.880 $\pm$ 0.071 χ^2/NDF : 63216.9/98

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -357.379 ± 260.554 $\chi^2/\text{NDF}: 30.5/23$

Left Out: -509.311 ± 121.190 $\chi^2/\text{NDF}: 60.5/23$

Right Out: 587.842 ± 249.899 $\chi^2/\text{NDF}: 13.1/27$

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

Left: -225.283 ± 85.995 $\chi^2/\text{NDF}: 100.4/46$

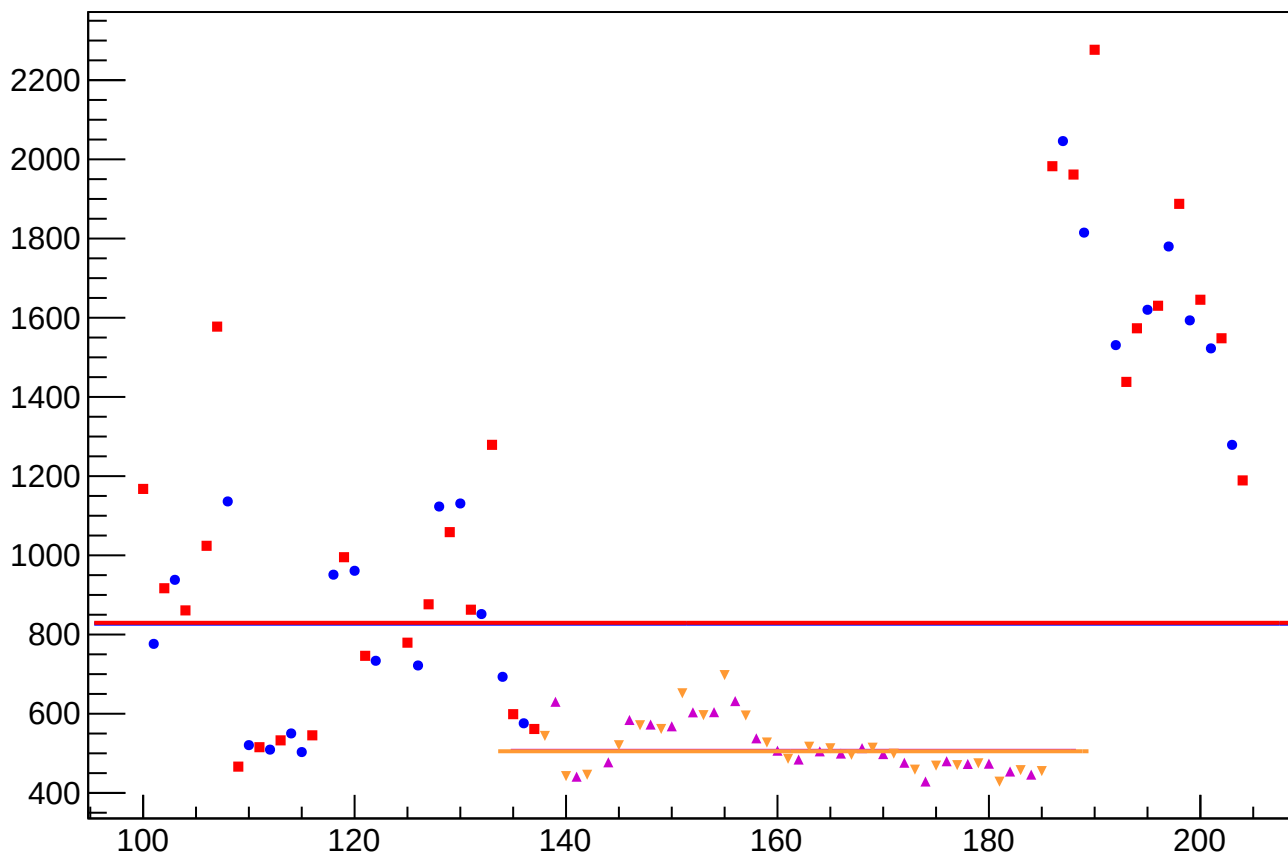
Right: 134.953 ± 180.355 $\chi^2/\text{NDF}: 50.5/51$

In: -12.829 ± 110.522 $\chi^2/\text{NDF}: 61.4/46$

Out: -300.409 ± 109.044 $\chi^2/\text{NDF}: 89.3/51$

All: -158.554 ± 77.623 $\chi^2/\text{NDF}: 154.1/98$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 827.428+/-0.184 χ^2/NDF : 3873805.7/23

Left Out: 505.220+/-0.086 χ^2/NDF :485593.0/23

Right Out: 829.621+/-0.177 χ^2/NDF : 5341054.9/27

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

Left: 505.796+/-0.061 χ^2/NDF : 921978.4/46

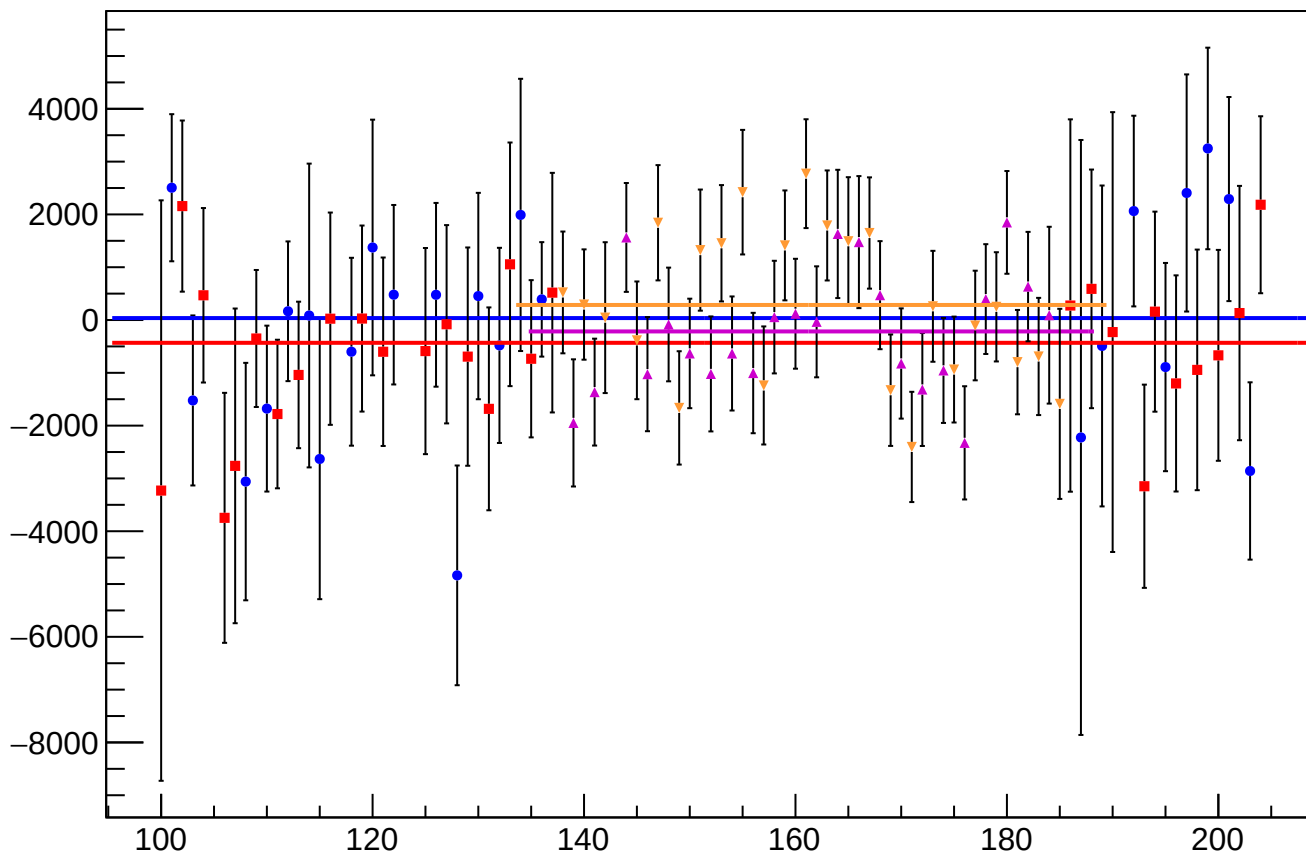
Right: 828.570+/-0.128 χ^2/NDF : 9214934.4/51

In: 564.146+/-0.078 χ^2/NDF :6800244.1/46

Out: 566.987+/-0.077 χ^2/NDF :8555208.6/51

All: 565.586+/-0.055 χ^2/NDF : 15356122.7/98

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 36.869 ± 375.634 $\chi^2/\text{NDF}: 25.0/23$

Left Out: 285.144 ± 224.378 $\chi^2/\text{NDF}: 38.3/23$

Right Out: -431.624 ± 363.913 $\chi^2/\text{NDF}: 13.1/27$

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

Left: 35.874 ± 159.089 $\chi^2/\text{NDF}: 65.2/46$

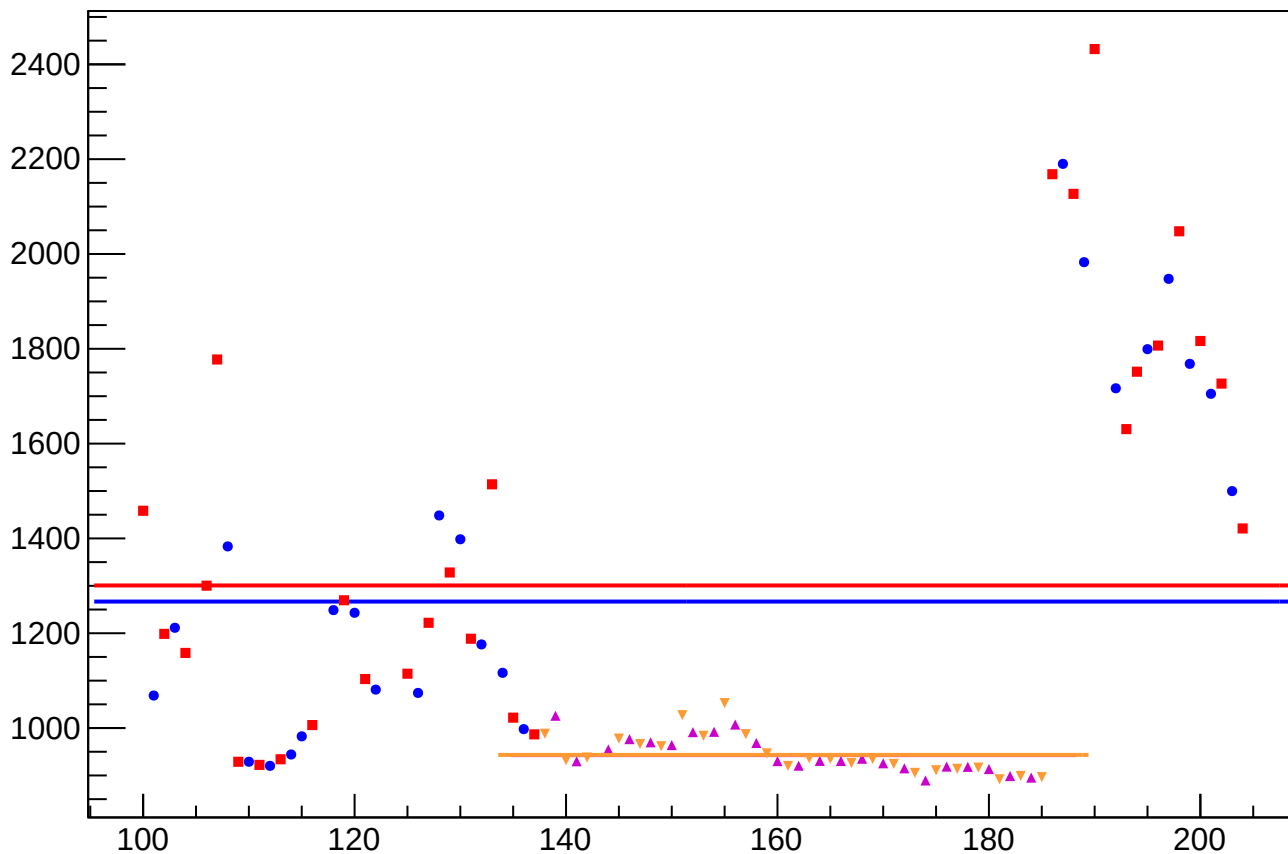
Right: -204.800 ± 261.371 $\chi^2/\text{NDF}: 38.9/51$

In: -149.057 ± 193.401 $\chi^2/\text{NDF}: 49.7/46$

Out: 87.714 ± 190.992 $\chi^2/\text{NDF}: 54.1/51$

All: -29.188 ± 135.895 $\chi^2/\text{NDF}: 104.6/98$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1266.825 $\pm$ 0.266 χ^2/NDF : 1431775.4/23

Left Out: 943.351 $\pm$ 0.159 χ^2/NDF : 60365.2/23

Right Out: 1300.780 $\pm$ 0.257 χ^2/NDF : 1998257.8/27

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

Left: 943.140 $\pm$ 0.112 χ^2/NDF : 108771.7/46

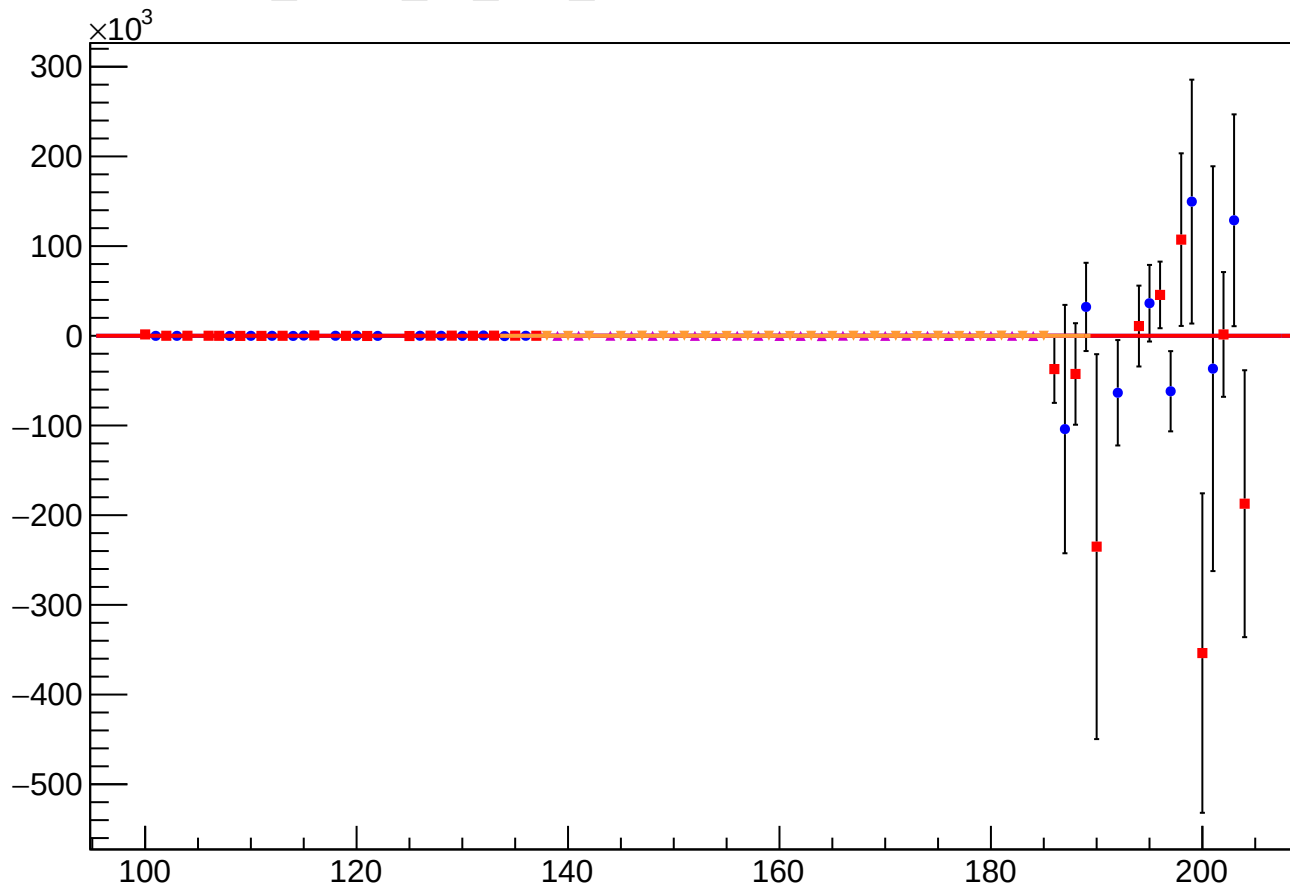
Right: 1284.341 $\pm$ 0.185 χ^2/NDF : 3438463.3/51

In: 1028.787 $\pm$ 0.137 χ^2/NDF : 2573011.7/46

Out: 1041.803 $\pm$ 0.135 χ^2/NDF : 3456556.9/51

All: 1035.377 $\pm$ 0.096 χ^2/NDF : 6034154.4/98

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.556+/-30.032 χ^2/NDF : 23.2/23

Left Out: 3.710+/-21.467 χ^2/NDF :22.4/23

Right Out: 31.741+/-30.492 χ^2/NDF : 27.9/26

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

Left: -9.538+/-15.221 χ^2/NDF : 45.7/46

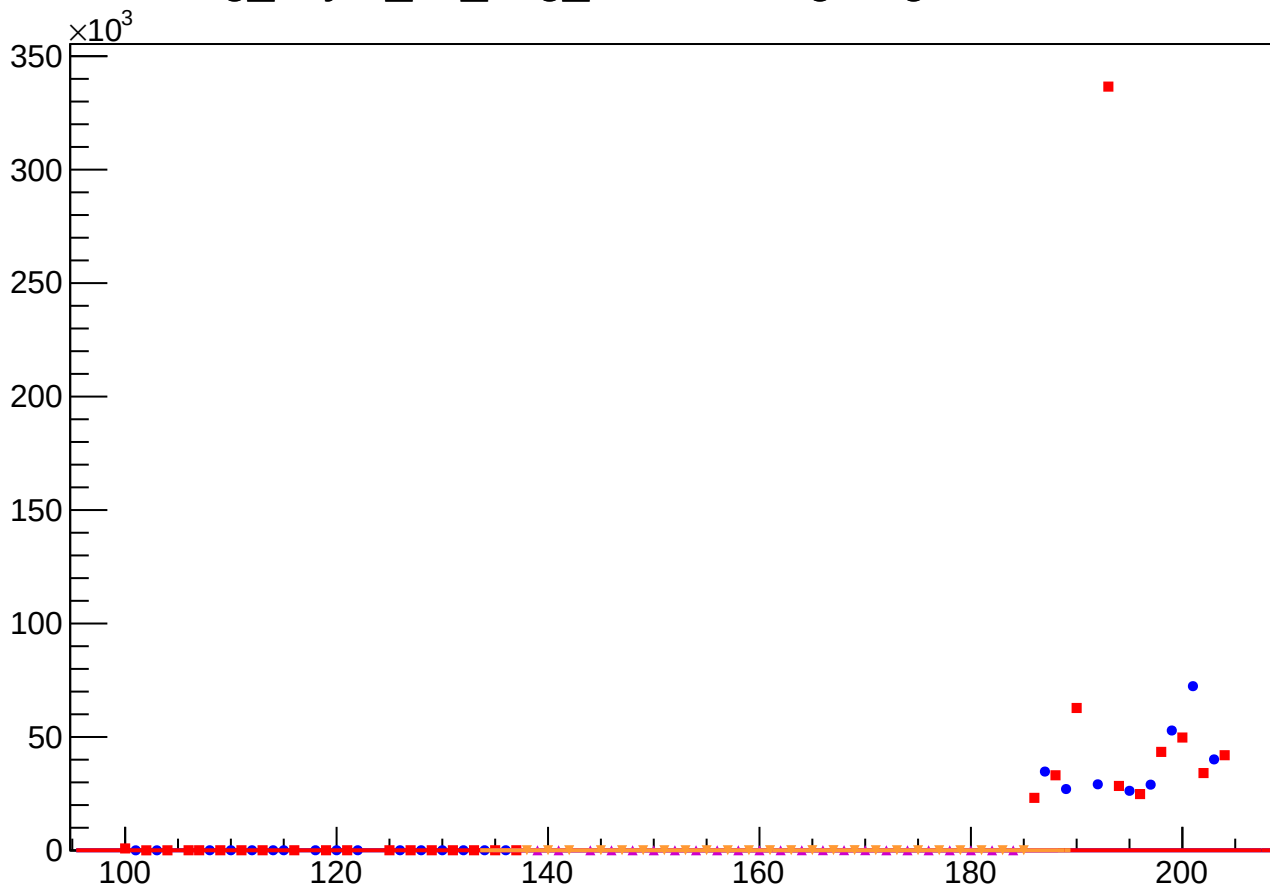
Right: 7.734+/-21.397 χ^2/NDF : 52.3/50

In: -20.419+/-17.527 χ^2/NDF :45.7/46

Out: 13.000+/-17.553 χ^2/NDF :50.9/50

All: -3.734+/-12.403 χ^2/NDF : 98.4/97

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.106 $\pm$ 0.021 χ^2 /NDF: 4066136.9/23

Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF: 466281.5/23

Right Out: 79.442 $\pm$ 0.022 χ^2 /NDF: 5003925.8/27

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

Left: 89.644 $\pm$ 0.011 χ^2 /NDF: 974812.8/46

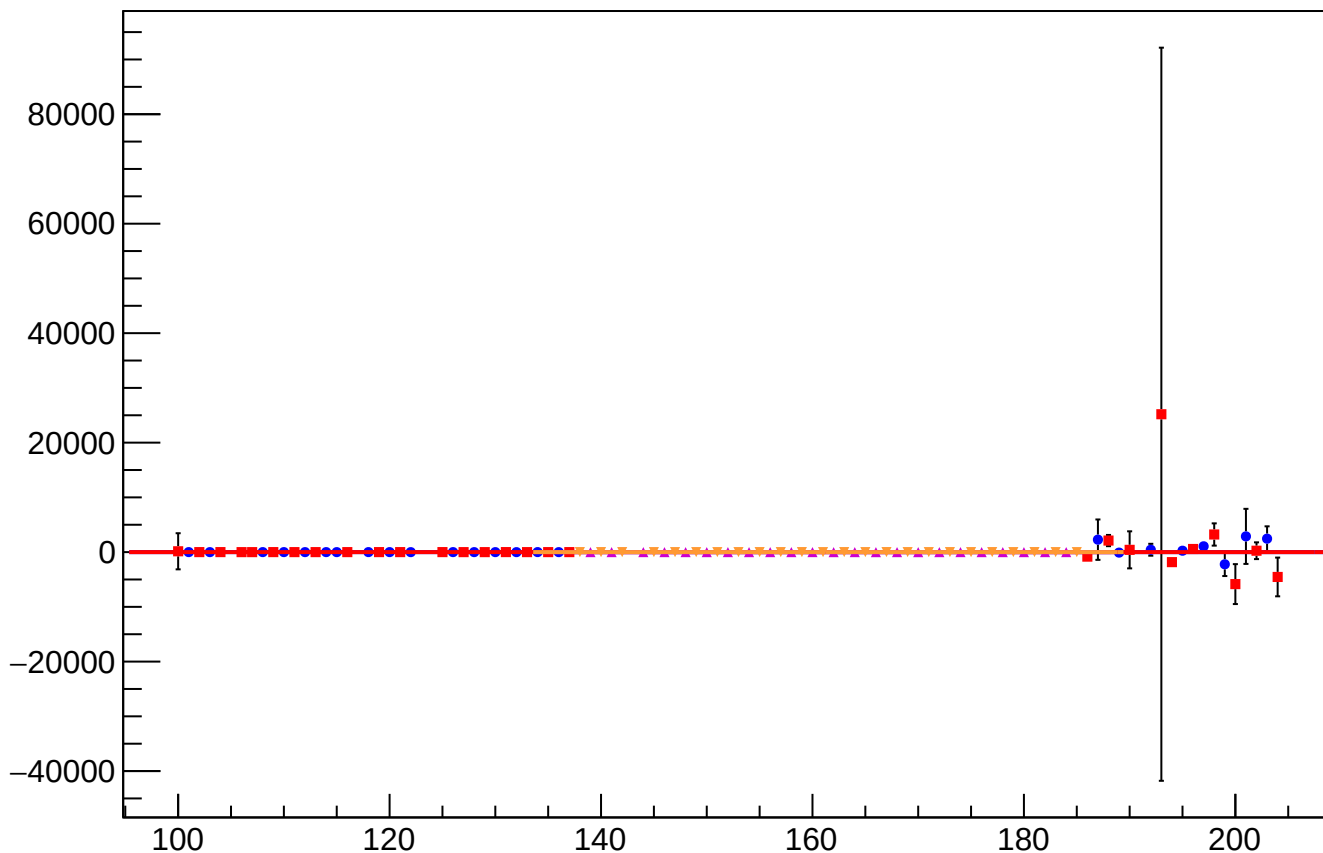
Right: 77.749 $\pm$ 0.015 χ^2 /NDF: 9082213.2/51

In: 85.001 $\pm$ 0.012 χ^2 /NDF: 4840712.9/46

Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 5621318.8/51

All: 85.647 $\pm$ 0.009 χ^2 /NDF: 10467475.9/98

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 25.5/23

Left Out: 0.126 ± 0.377 χ^2/NDF : 21.3/23

Right Out: 0.038 ± 0.525 χ^2/NDF : 27.0/27

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

Left: -0.188 ± 0.270 χ^2/NDF : 49.1/46

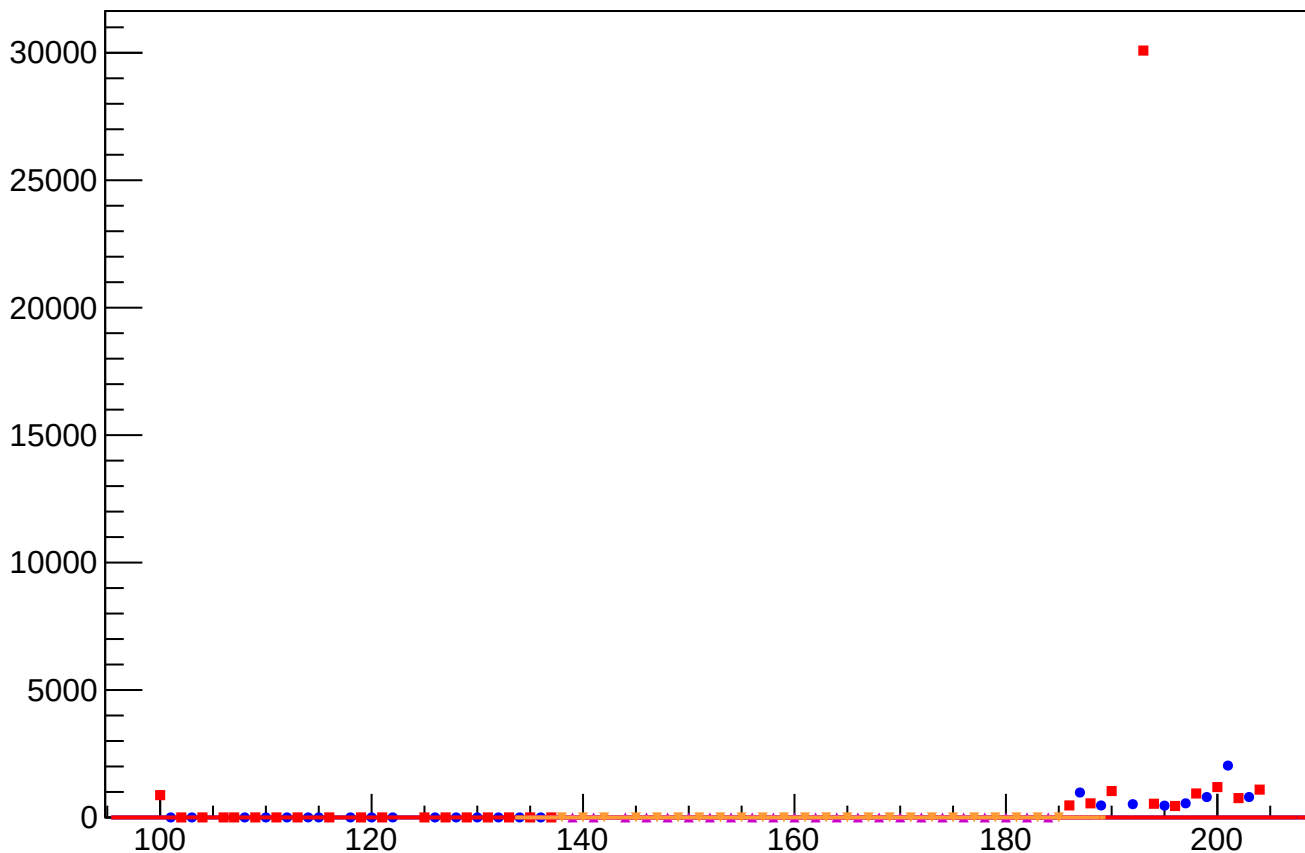
Right: -0.133 ± 0.363 χ^2/NDF : 52.8/51

In: -0.433 ± 0.306 χ^2/NDF : 52.0/46

Out: 0.096 ± 0.306 χ^2/NDF : 48.4/51

All: -0.168 ± 0.217 χ^2/NDF : 101.9/98

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 3863219.3/23

Left Out: 1.408+/-0.000 χ^2/NDF : 987553.0/23

Right Out: 1.260+/-0.000 χ^2/NDF : 5185773.9/27

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

Left: 1.430+/-0.000 χ^2/NDF : 1997169.8/46

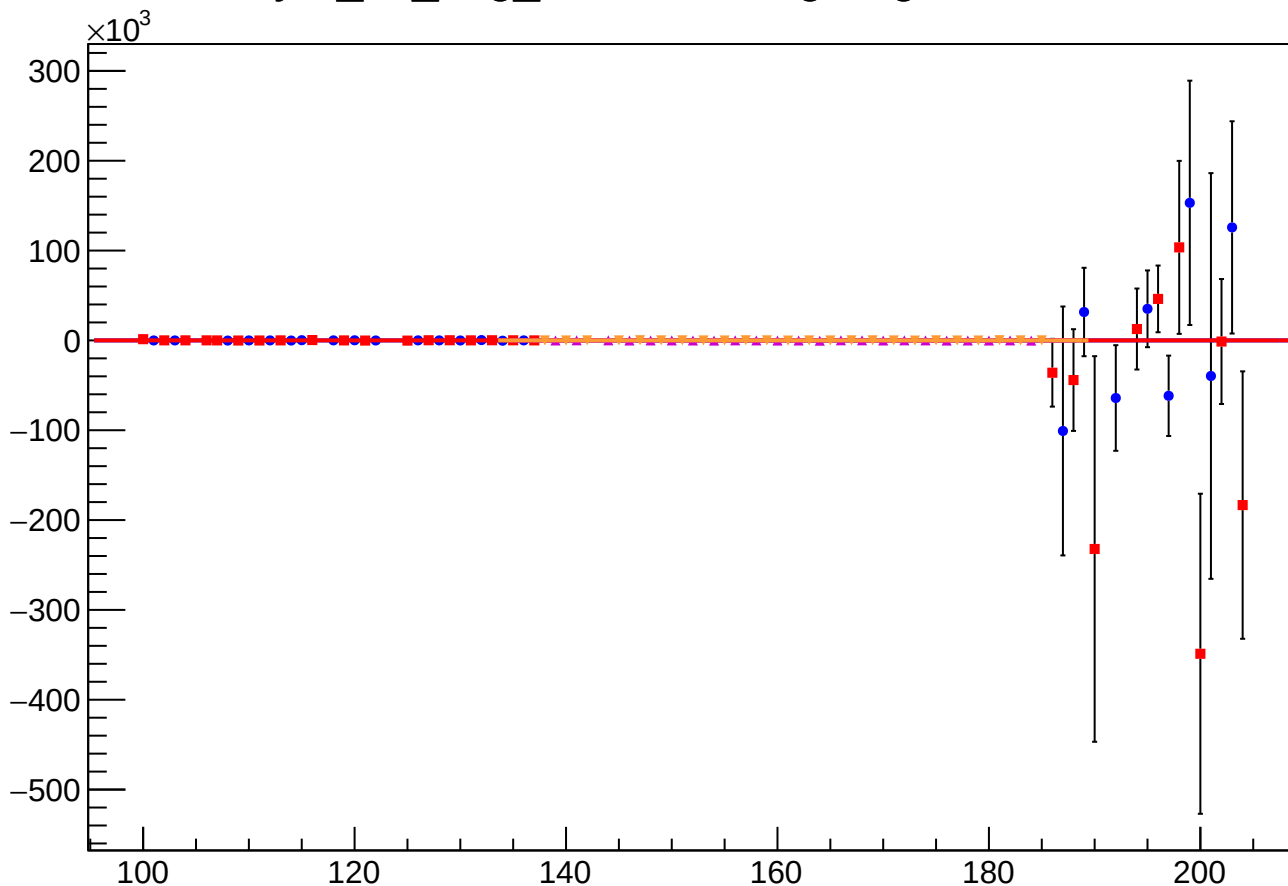
Right: 1.204+/-0.000 χ^2/NDF : 9092592.4/51

In: 1.341+/-0.000 χ^2/NDF : 5308687.3/46

Out: 1.358+/-0.000 χ^2/NDF : 6278691.1/51

All: 1.350+/-0.000 χ^2/NDF : 11590380.8/98

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.493 ± 30.040 χ^2/NDF : 23.4/23

Left Out: 3.497 ± 21.474 χ^2/NDF : 22.1/23

Right Out: 32.021 ± 30.500 χ^2/NDF : 27.6/26

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

Left: -9.404 ± 15.226 χ^2/NDF : 45.2/46

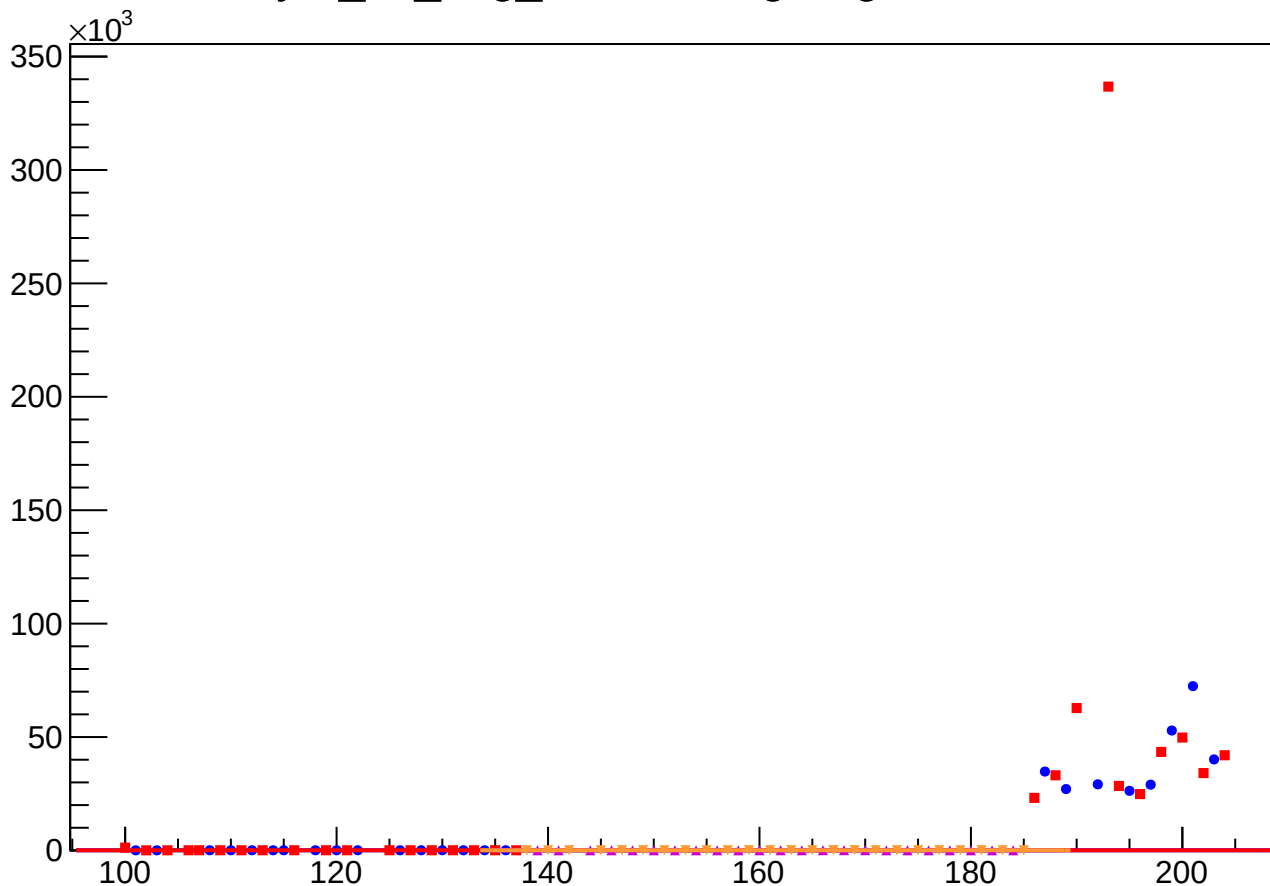
Right: 8.411 ± 21.402 χ^2/NDF : 52.2/50

In: -19.737 ± 17.532 χ^2/NDF : 45.7/46

Out: 12.950 ± 17.559 χ^2/NDF : 50.3/50

All: -3.418 ± 12.407 χ^2/NDF : 97.8/97

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.126+/-0.021 χ^2/NDF : 4066254.1/23

Left Out: 89.719+/-0.015 χ^2/NDF : 467023.5/23

Right Out: 79.445+/-0.022 χ^2/NDF : 5010538.7/27

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

Left: 89.671+/-0.011 χ^2/NDF : 976435.5/46

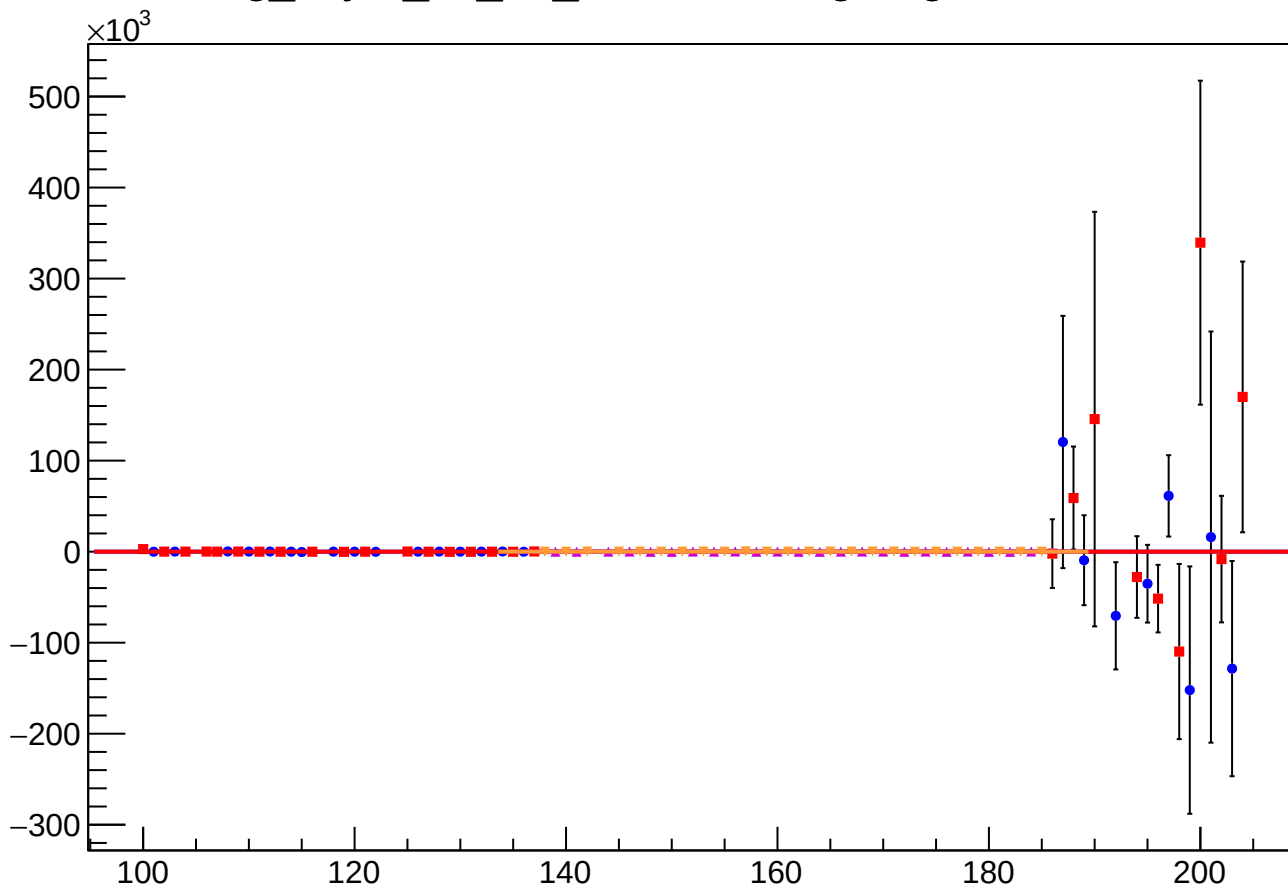
Right: 77.760+/-0.015 χ^2/NDF : 9088817.5/51

In: 85.025+/-0.012 χ^2/NDF : 4841833.1/46

Out: 86.314+/-0.012 χ^2/NDF : 5629275.8/51

All: 85.669+/-0.009 χ^2/NDF : 10476507.0/98

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.092 ± 30.012 $\chi^2/\text{NDF}: 21.2/23$

Left Out: 15.274 ± 21.472 $\chi^2/\text{NDF}: 17.2/23$

Right Out: -25.799 ± 30.473 $\chi^2/\text{NDF}: 22.9/26$

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

Left: 29.270 ± 15.226 $\chi^2/\text{NDF}: 49.5/46$

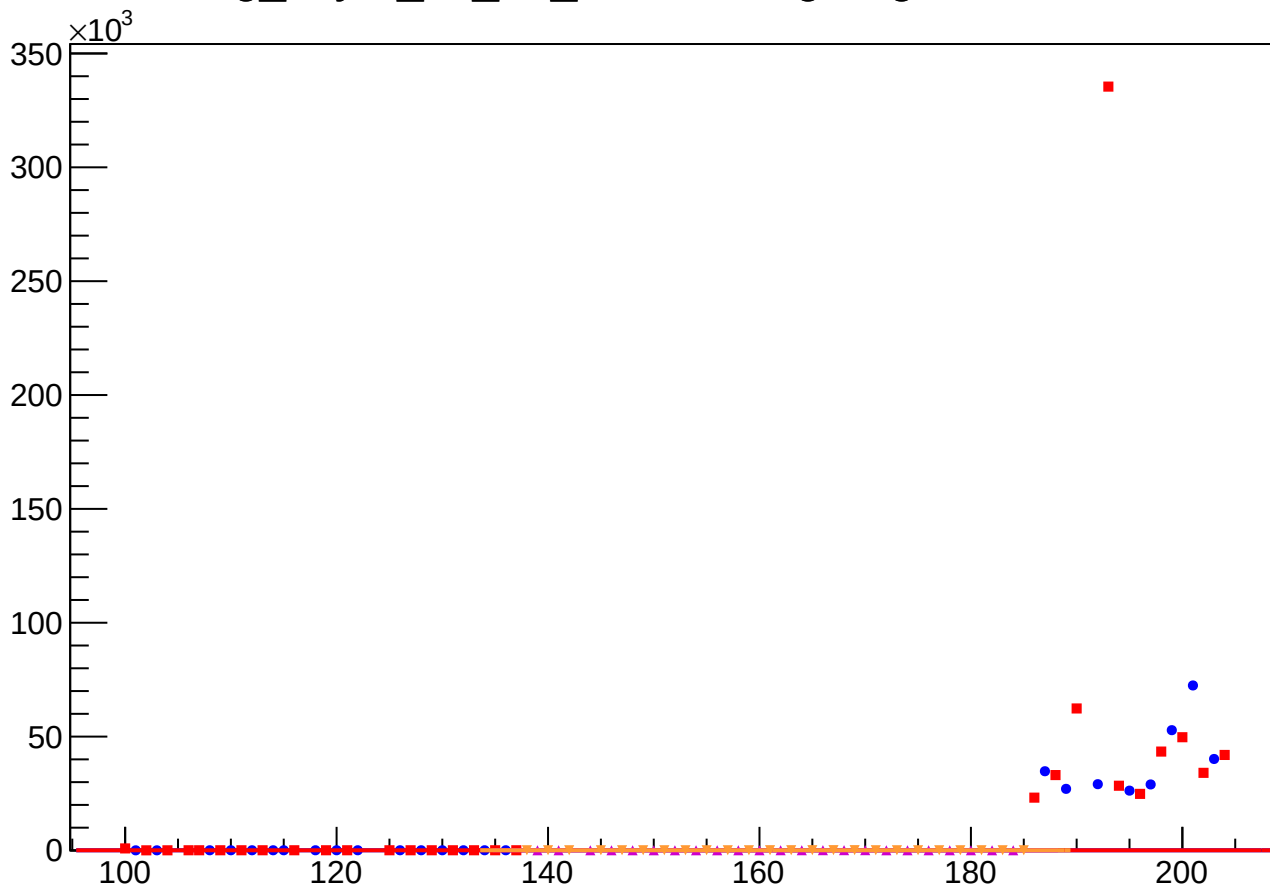
Right: -8.595 ± 21.383 $\chi^2/\text{NDF}: 44.7/50$

In: 31.373 ± 17.528 $\chi^2/\text{NDF}: 53.6/46$

Out: 1.647 ± 17.552 $\chi^2/\text{NDF}: 41.3/50$

All: 16.530 ± 12.403 $\chi^2/\text{NDF}: 96.3/97$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.057 $\pm$ 0.021 χ^2 /NDF: 4065462.5/23

Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23

Right Out: 79.393 $\pm$ 0.022 χ^2 /NDF: 5003198.1/27

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

Left: 89.670 $\pm$ 0.011 χ^2 /NDF: 976153.9/46

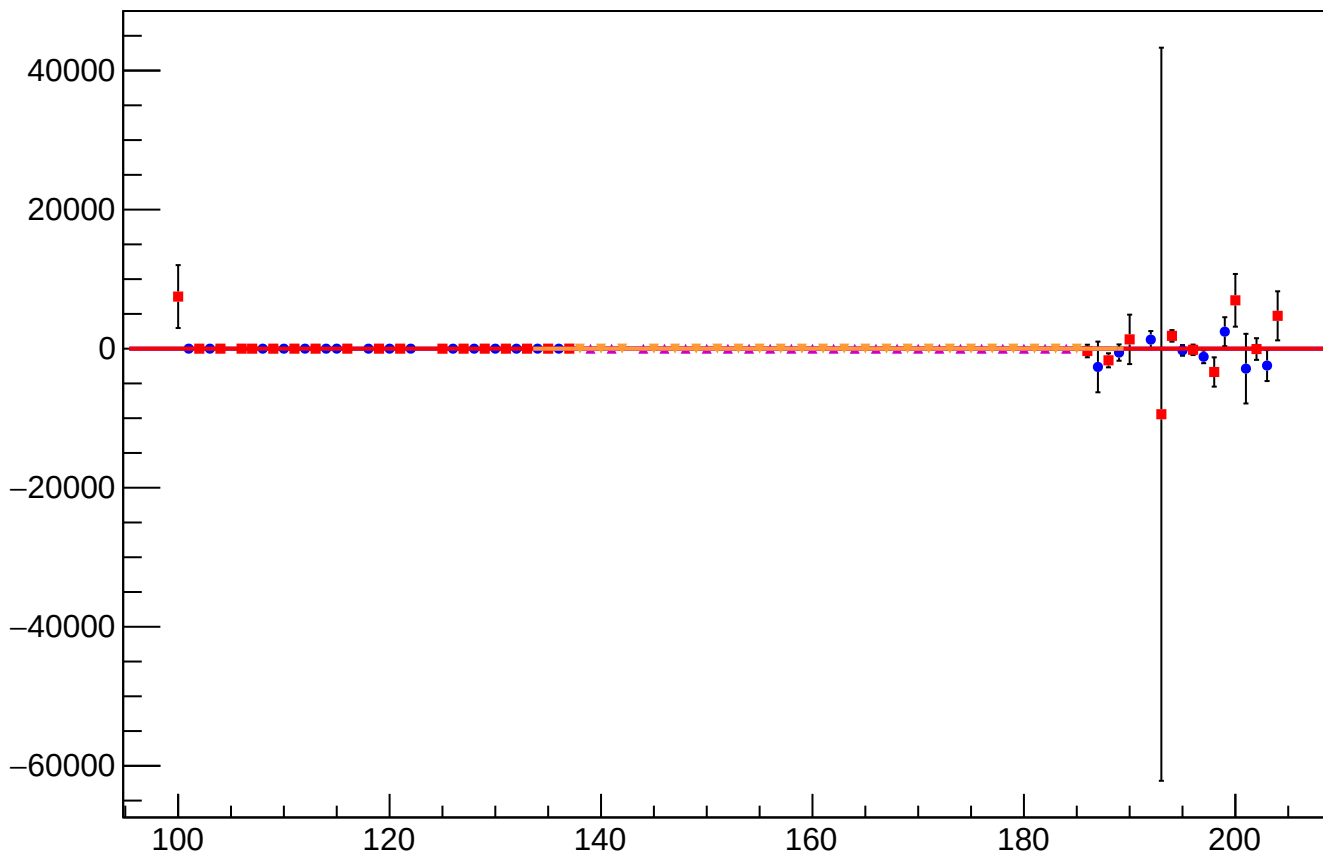
Right: 77.700 $\pm$ 0.015 χ^2 /NDF: 9080832.1/51

In: 84.999 $\pm$ 0.012 χ^2 /NDF: 4845954.2/46

Out: 86.288 $\pm$ 0.012 χ^2 /NDF: 5621534.2/51

All: 85.643 $\pm$ 0.009 χ^2 /NDF: 10472894.6/98

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 18.4/23

Left Out: -0.516 $\pm$ 0.391 χ^2 /NDF:20.7/23

Right Out: 0.348 $\pm$ 0.549 χ^2 /NDF: 29.2/27

Left In: -0.072 $\pm$ 0.390 χ^2 /NDF:20.4/22

Left: -0.293 $\pm$ 0.276 χ^2 /NDF: 41.7/46

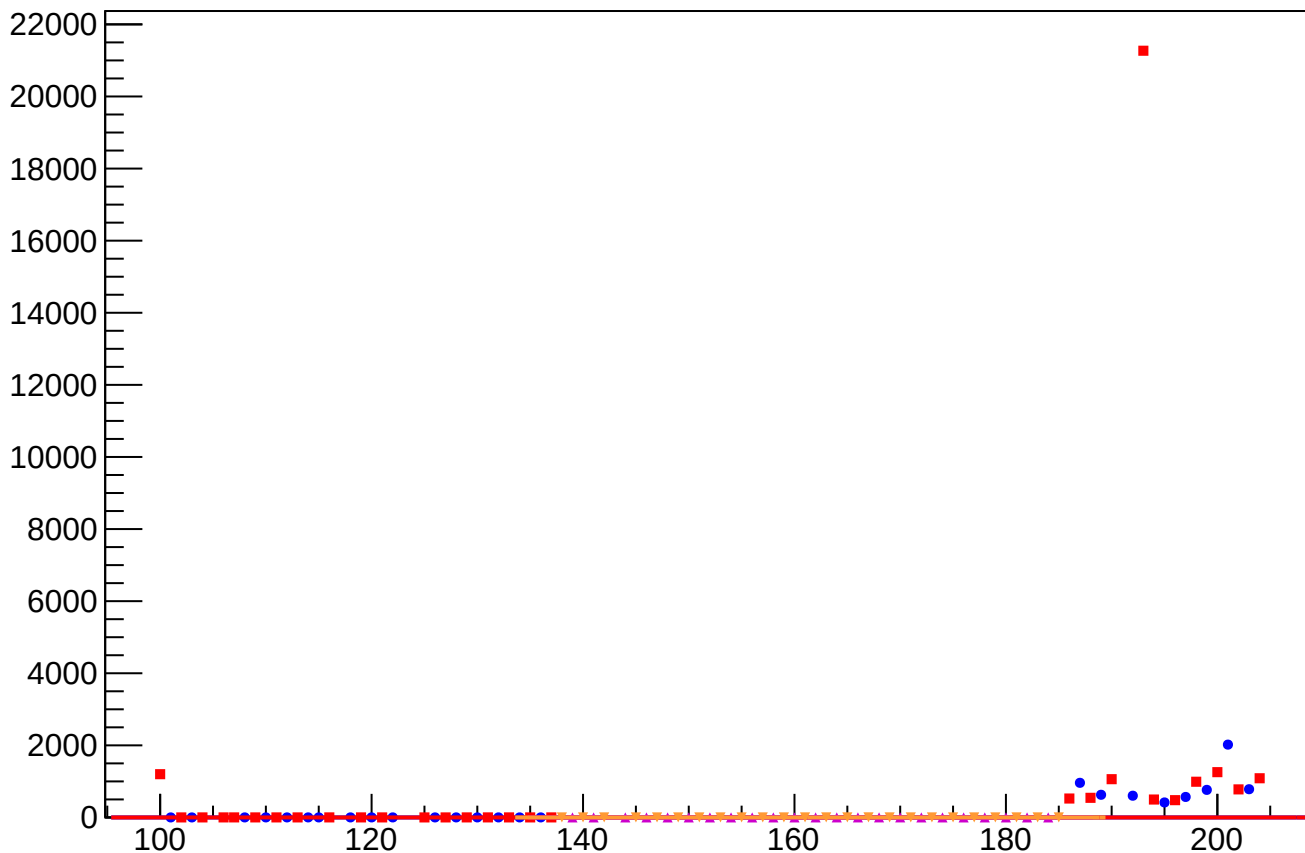
Right: 0.628 $\pm$ 0.382 χ^2 /NDF: 48.1/51

In: 0.266 $\pm$ 0.315 χ^2 /NDF:40.9/46

Out: -0.225 $\pm$ 0.318 χ^2 /NDF:51.5/51

All: 0.023 $\pm$ 0.224 χ^2 /NDF: 93.6/98

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 3999527.9/23

Left Out: 1.470+/-0.000 χ^2/NDF : 1154842.2/23

Right Out: 1.316+/-0.000 χ^2/NDF : 5156373.0/27

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

Left: 1.466+/-0.000 χ^2/NDF : 2203936.9/46

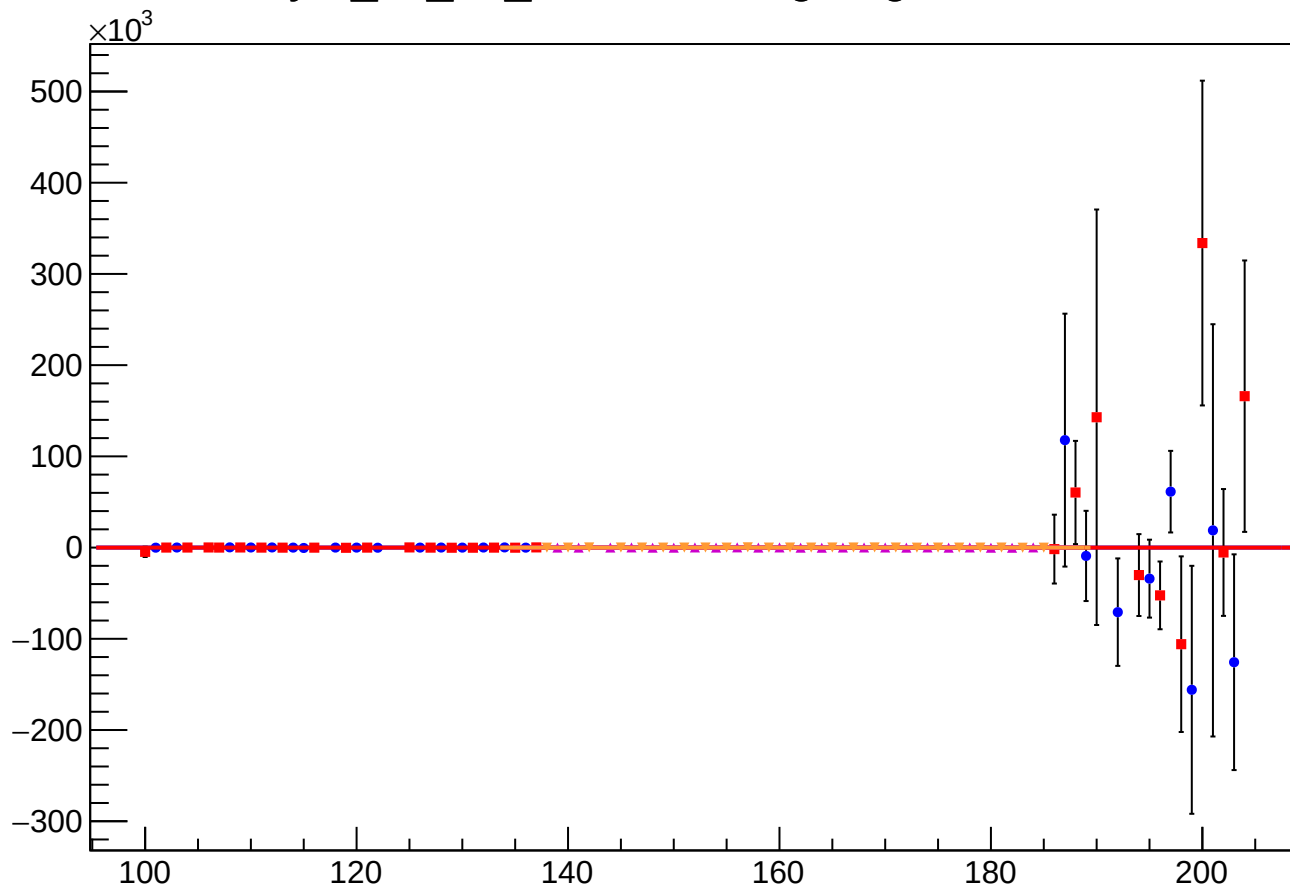
Right: 1.274+/-0.000 χ^2/NDF : 9179243.6/51

In: 1.381+/-0.000 χ^2/NDF : 5285621.4/46

Out: 1.418+/-0.000 χ^2/NDF : 6415572.6/51

All: 1.400+/-0.000 χ^2/NDF : 11714900.4/98

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.385 $\pm$ 30.020 χ^2 /NDF: 21.1/23

Left Out: 15.770 $\pm$ 21.479 χ^2 /NDF:17.1/23

Right Out: -26.409 $\pm$ 30.482 χ^2 /NDF: 22.9/26

Left In: 43.905 $\pm$ 21.600 χ^2 /NDF:31.1/22

Left: 29.758 $\pm$ 15.231 χ^2 /NDF: 49.0/46

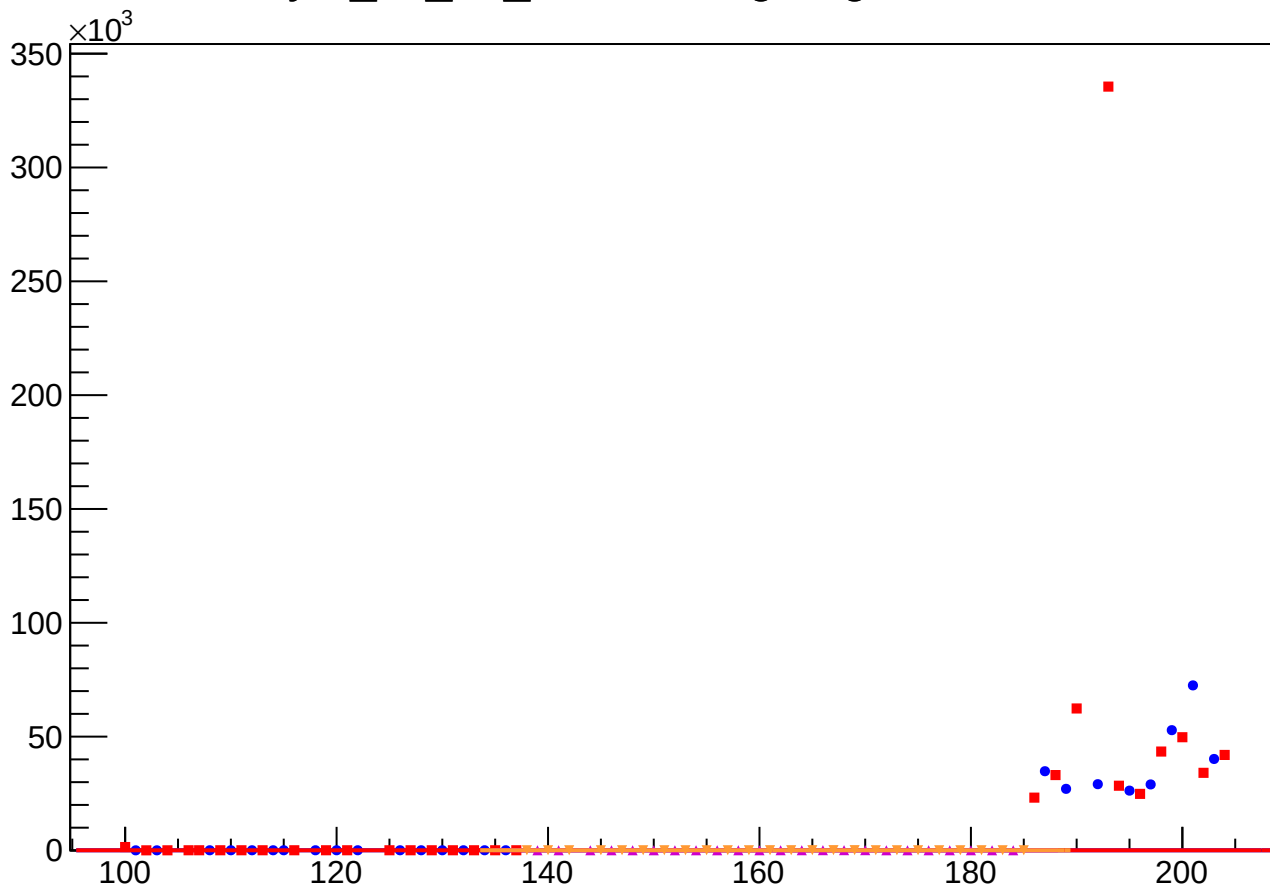
Right: -9.254 $\pm$ 21.389 χ^2 /NDF: 44.6/50

In: 31.448 $\pm$ 17.533 χ^2 /NDF:53.2/46

Out: 1.776 $\pm$ 17.558 χ^2 /NDF:41.3/50

All: 16.632 $\pm$ 12.407 χ^2 /NDF: 95.9/97

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.077+/-0.021 χ^2/NDF : 4065616.5/23

Left Out: 89.740+/-0.015 χ^2/NDF : 465842.6/23

Right Out: 79.390+/-0.022 χ^2/NDF : 5012530.9/27

Left In: 89.655+/-0.015 χ^2/NDF : 511848.9/22

Left: 89.697+/-0.011 χ^2/NDF : 977707.1/46

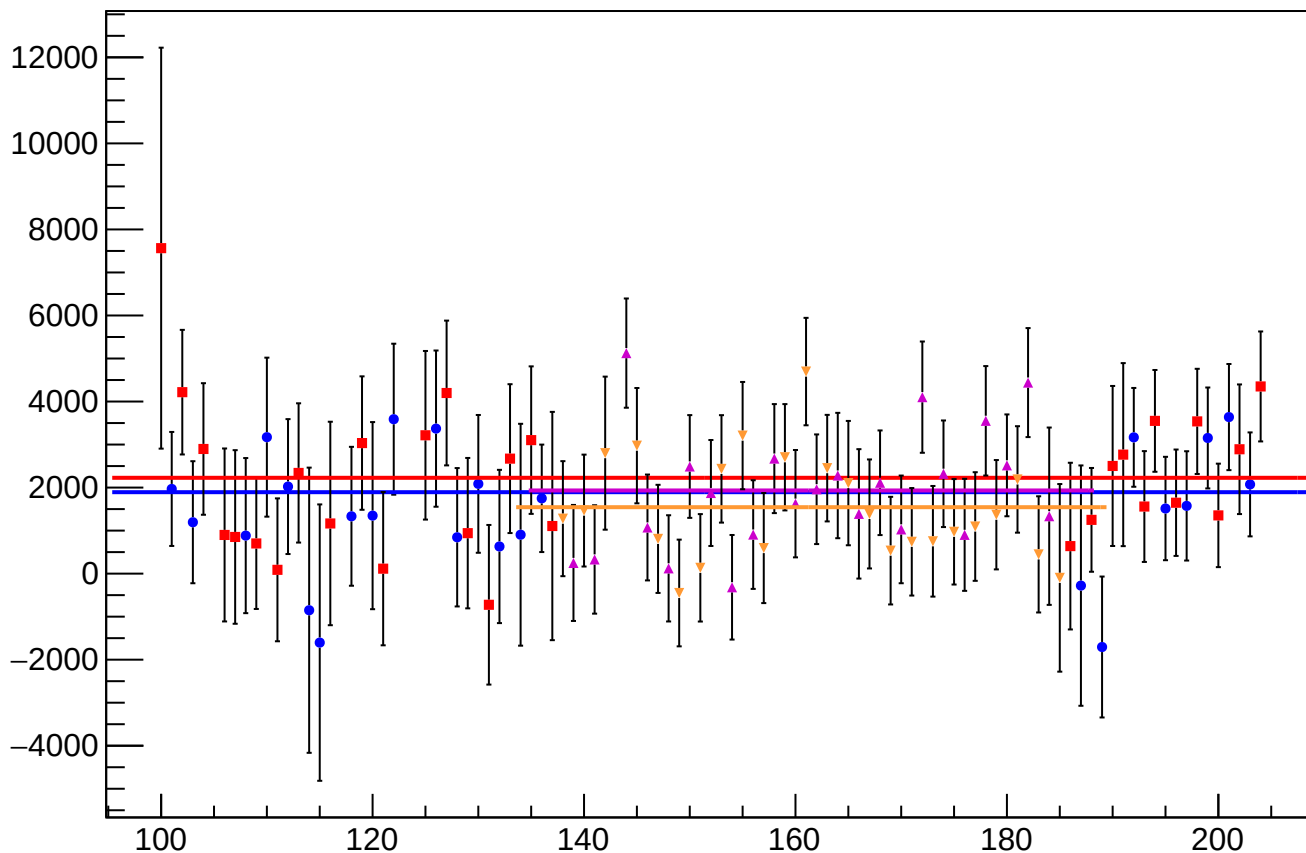
Right: 77.708+/-0.015 χ^2/NDF : 9090138.5/51

In: 85.023+/-0.012 χ^2/NDF : 4847010.7/46

Out: 86.306+/-0.012 χ^2/NDF : 5632439.8/51

All: 85.664+/-0.009 χ^2/NDF : 10484793.5/98

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1892.895 $\pm$ 316.059 χ^2 /NDF: 15.8/23

Left Out: 1544.102 $\pm$ 266.270 χ^2 /NDF:20.0/23

Right Out: 2227.362 $\pm$ 295.825 χ^2 /NDF: 21.8/28

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

Left: 1737.287 $\pm$ 188.892 χ^2 /NDF: 48.0/46

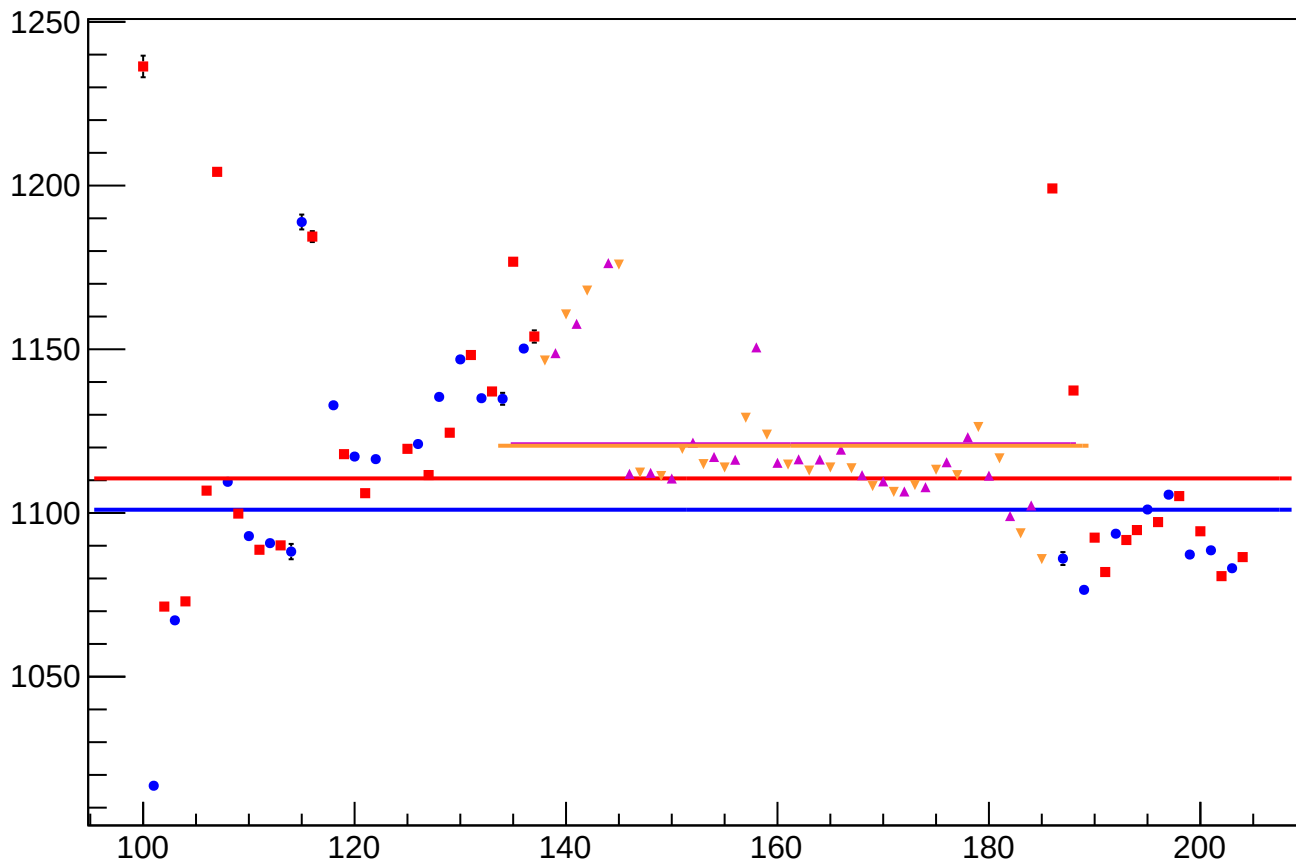
Right: 2071.177 $\pm$ 215.979 χ^2 /NDF: 38.2/52

In: 1916.225 $\pm$ 204.410 χ^2 /NDF:42.8/46

Out: 1849.905 $\pm$ 197.908 χ^2 /NDF:44.8/52

All: 1881.993 $\pm$ 142.185 χ^2 /NDF: 87.6/99

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1100.998 $\pm$ 0.223 χ^2 /NDF: 20488.5/23

Left Out: 1120.543 $\pm$ 0.188 χ^2 /NDF:10252.7/23

Right Out: 1110.558 $\pm$ 0.209 χ^2 /NDF: 24825.4/28

Left In: 1120.991 $\pm$ 0.190 χ^2 /NDF:9641.8/22

Left: 1120.765 $\pm$ 0.134 χ^2 /NDF: 19897.3/46

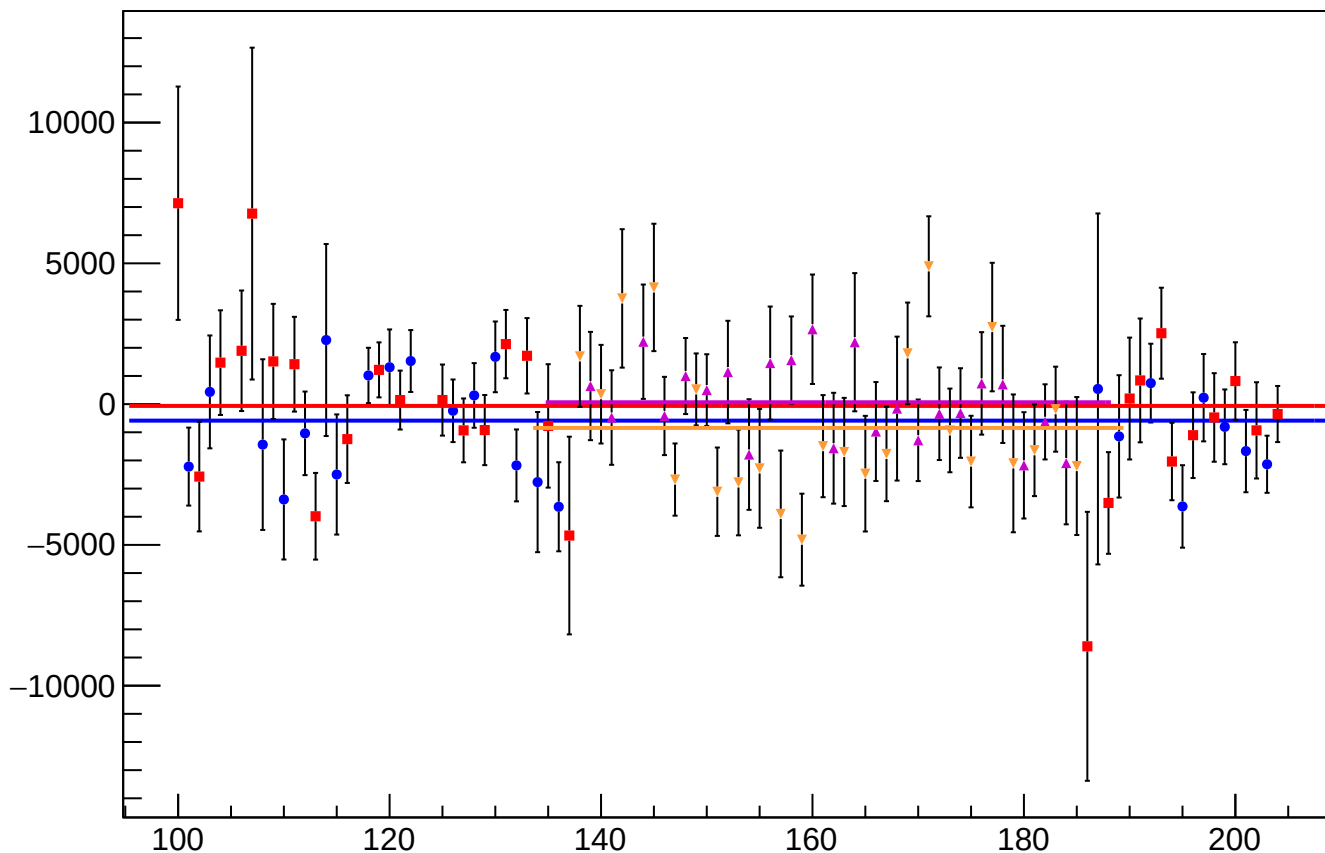
Right: 1106.094 $\pm$ 0.153 χ^2 /NDF: 46289.2/52

In: 1112.628 $\pm$ 0.145 χ^2 /NDF:34785.6/46

Out: 1116.074 $\pm$ 0.140 χ^2 /NDF:36336.9/52

All: 1114.407 $\pm$ 0.101 χ^2 /NDF: 71415.9/99

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -586.283+/-297.621 χ^2/NDF : 32.0/23

Left Out: -845.009+/-361.141 χ^2/NDF :43.2/23

Right Out: -63.478+/-286.105 χ^2/NDF : 38.6/28

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

Left: -386.655+/-254.528 χ^2/NDF : 58.6/46

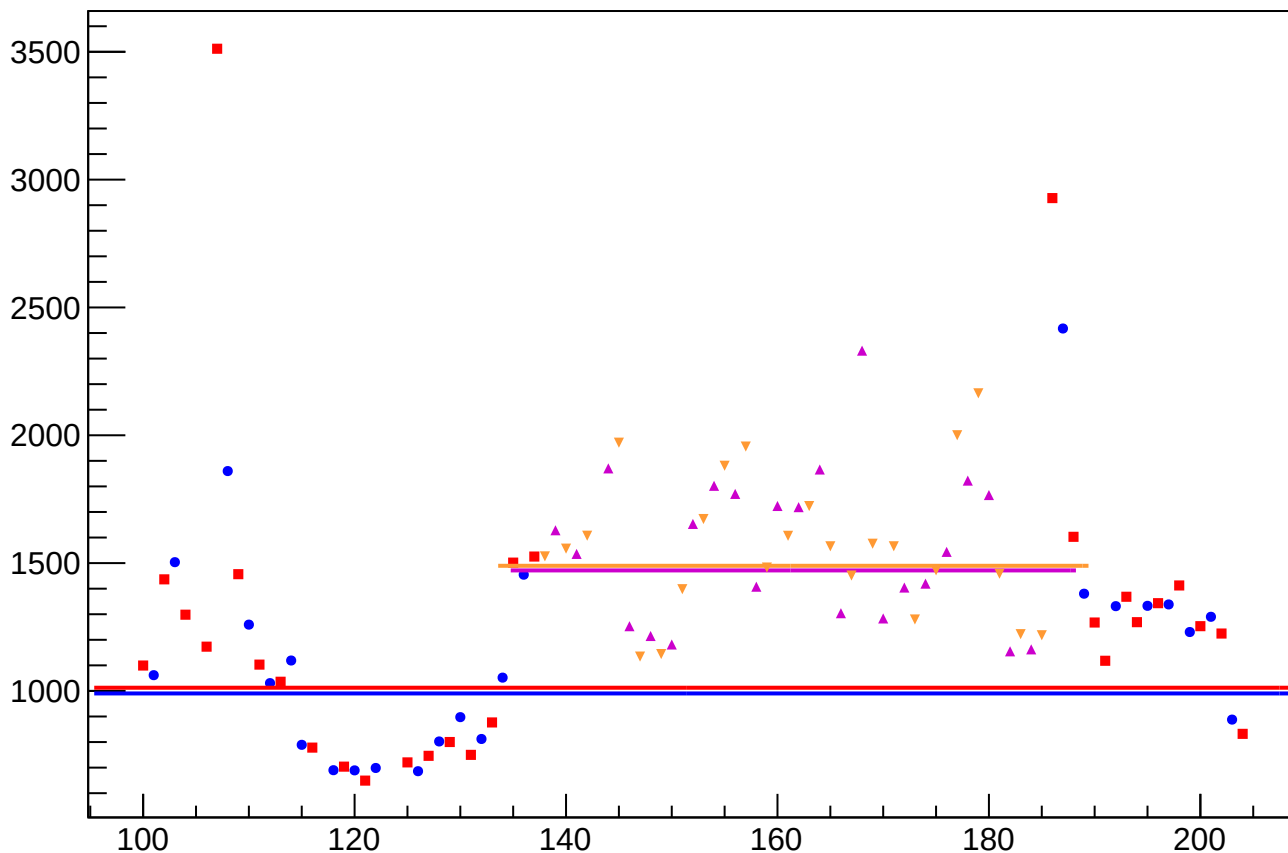
Right: -314.571+/-206.258 χ^2/NDF : 72.2/52

In: -320.505+/-229.067 χ^2/NDF :46.1/46

Out: -364.841+/-224.259 χ^2/NDF :84.7/52

All: -343.144+/-160.248 χ^2/NDF : 130.8/99

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 990.154+/-0.210 χ^2/NDF : 1878644.9/23

Left Out: 1489.507+/-0.255 χ^2/NDF : 1009228.3/23

Right Out: 1012.543+/-0.202 χ^2/NDF : 2748276.0/28

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

Left: 1480.391+/-0.180 χ^2/NDF : 2117070.9/46

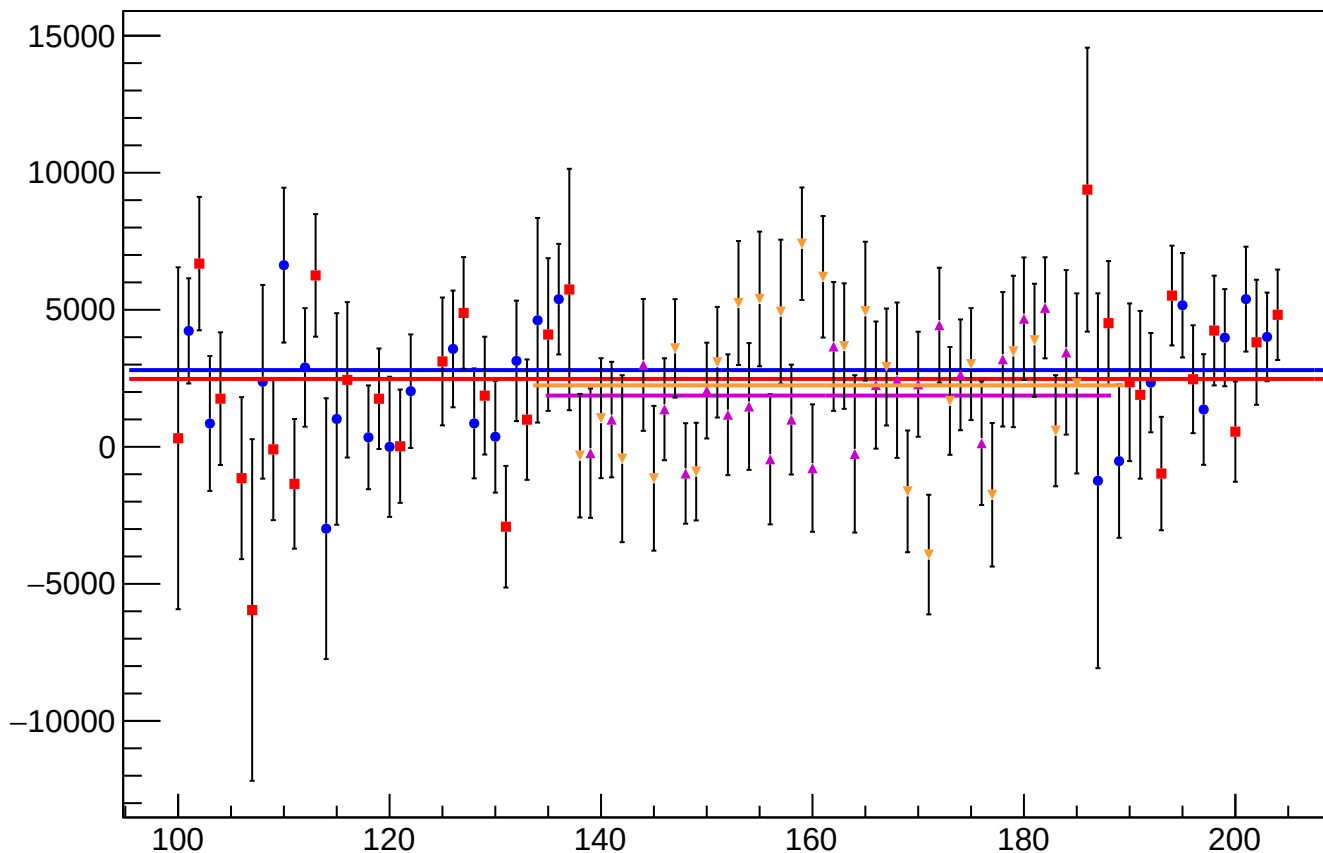
Right: 1001.790+/-0.146 χ^2/NDF : 4632803.1/52

In: 1186.318+/-0.162 χ^2/NDF : 5115441.5/46

Out: 1196.464+/-0.159 χ^2/NDF : 5900862.0/52

All: 1191.498+/-0.113 χ^2/NDF : 11018307.0/95

asym_usl_mean vs Slug, Sign Corrected



Right In: 2800.026+/-455.734 χ^2/NDF : 18.8/23

Left Out: 2244.415+/-456.474 χ^2/NDF : 38.6/23

Right Out: 2477.631+/-435.051 χ^2/NDF : 35.8/28

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

Left: 2056.689+/-322.419 χ^2/NDF : 53.8/46

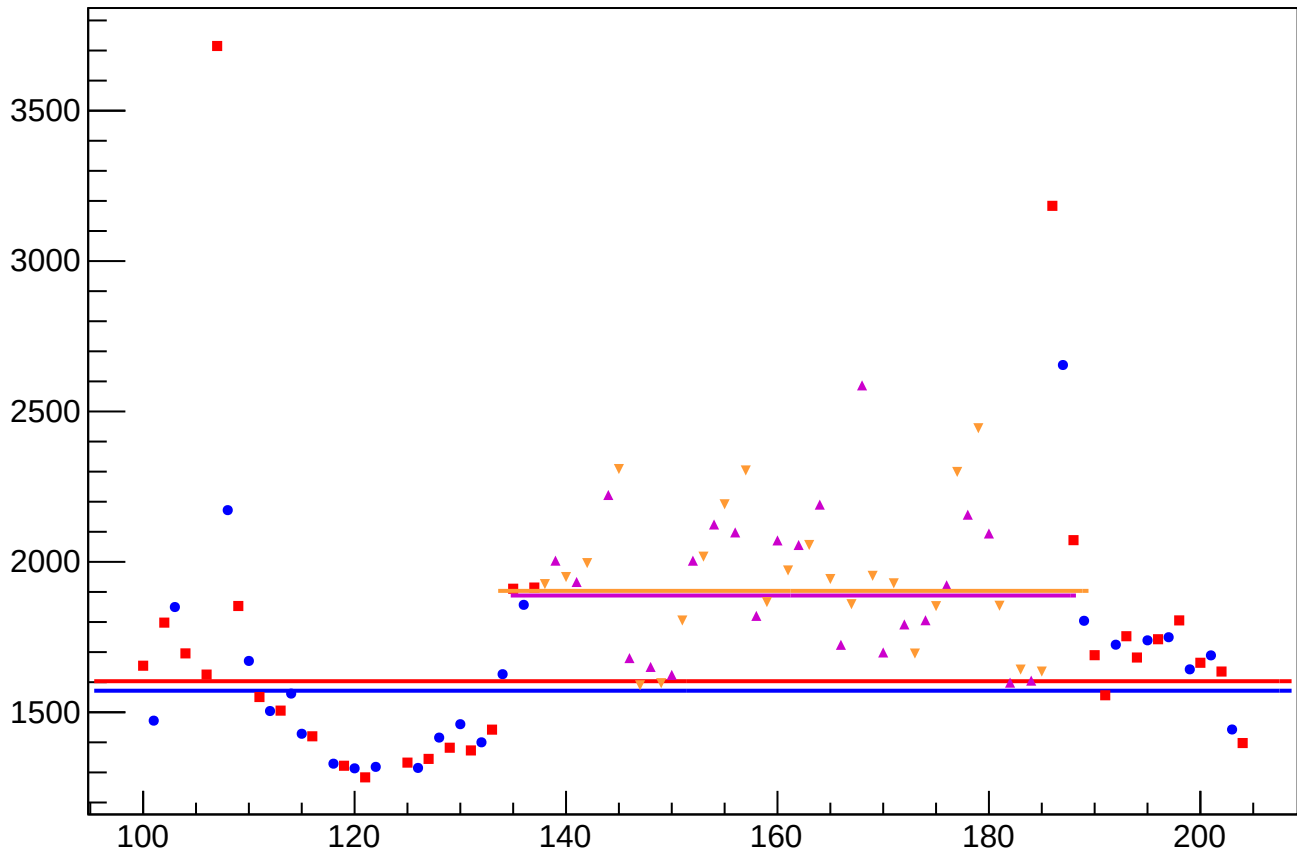
Right: 2631.347+/-314.685 χ^2/NDF : 54.9/52

In: 2334.634+/-322.158 χ^2/NDF : 35.8/46

Out: 2366.624+/-314.929 χ^2/NDF : 74.5/52

All: 2350.992+/-225.201 χ^2/NDF : 110.3/99

asym_usl_rms vs Slug, Sign Corrected



Right In: 1571.625+/-0.322 χ^2/NDF : 411294.4/23

Left Out: 1903.581+/-0.323 χ^2/NDF : 461788.9/23

Right Out: 1603.230+/-0.308 χ^2/NDF : 871700.3/28

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

Left: 1895.834+/-0.228 χ^2/NDF : 967507.1/46

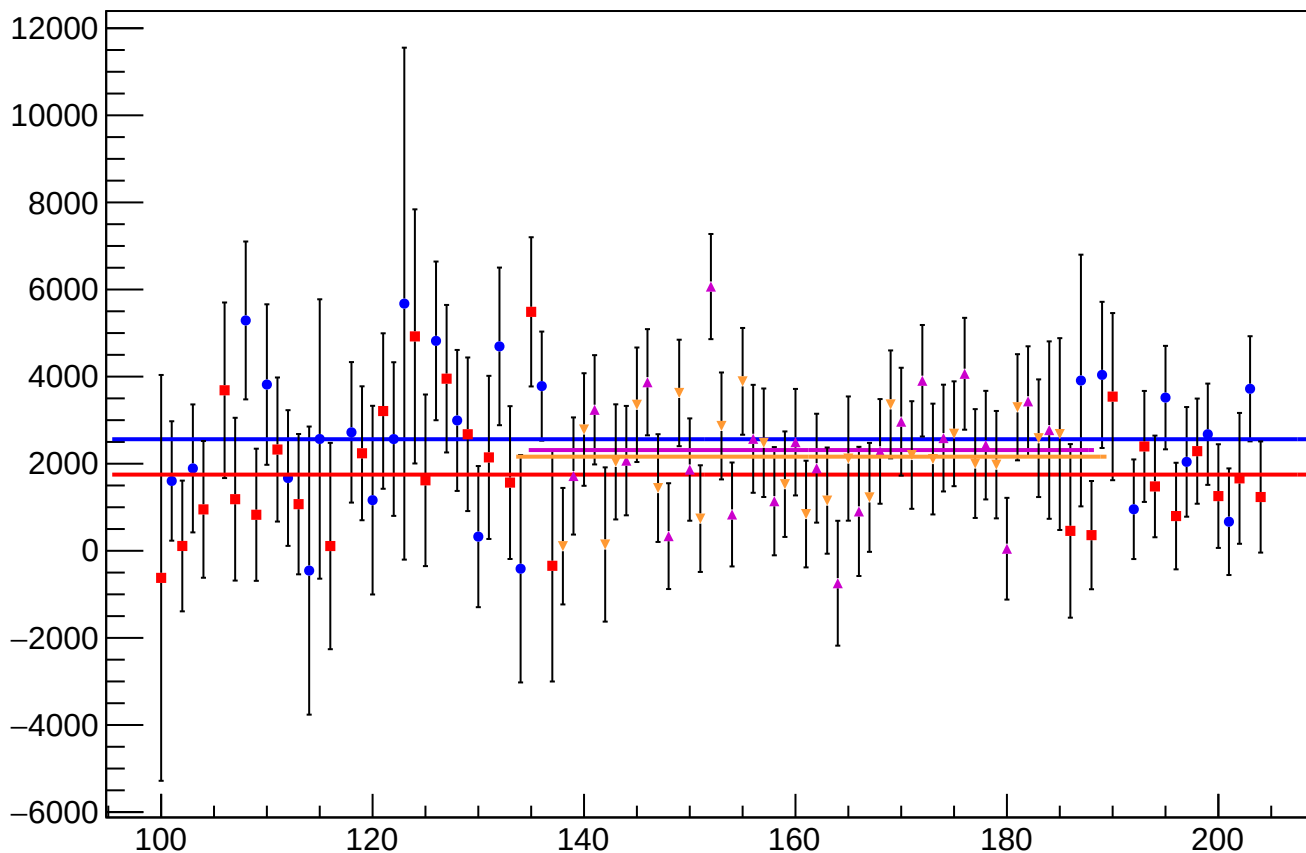
Right: 1588.161+/-0.223 χ^2/NDF : 1288027.1/52

In: 1729.967+/-0.228 χ^2/NDF : 1398443.9/46

Out: 1746.192+/-0.223 χ^2/NDF : 1787222.2/52

All: 1738.263+/-0.159 χ^2/NDF : 3188260.1/99

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2562.155 $\pm$ 316.753 χ^2/NDF : 19.5/24

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

Right Out: 1749.823 $\pm$ 297.462 χ^2/NDF : 17.2/28

Left In: 2313.505 $\pm$ 264.429 χ^2/NDF : 31.3/22

Left: 2235.453 $\pm$ 184.488 χ^2/NDF : 46.5/47

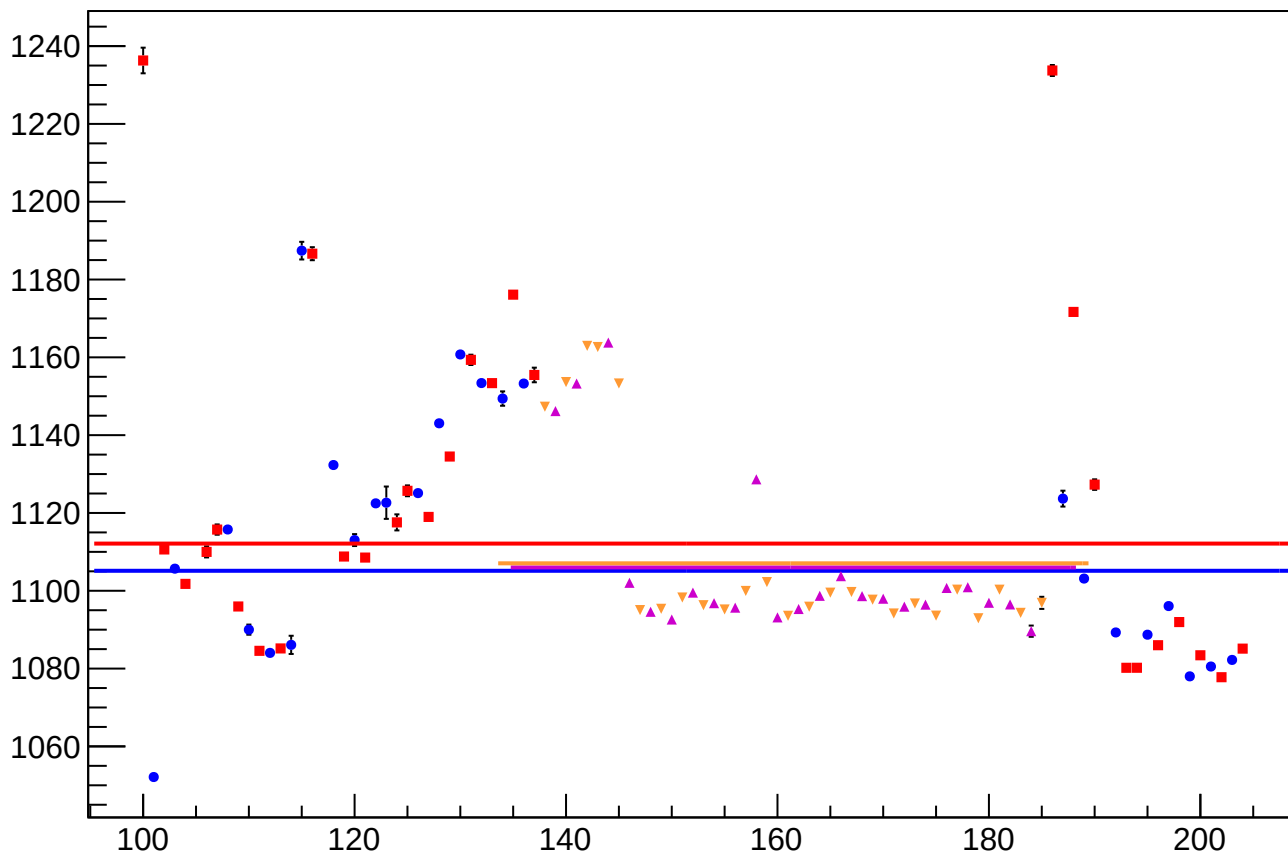
Right: 2130.500 $\pm$ 216.837 χ^2/NDF : 40.3/53

In: 2415.624 $\pm$ 202.992 χ^2/NDF : 51.2/47

Out: 1985.097 $\pm$ 194.695 χ^2/NDF : 33.4/53

All: 2191.382 $\pm$ 140.512 χ^2/NDF : 86.9/101

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1105.137 $\pm$ 0.224 χ^2 /NDF: 17963.3/24

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

Right Out: 1112.128 $\pm$ 0.210 χ^2 /NDF: 30495.5/28

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

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

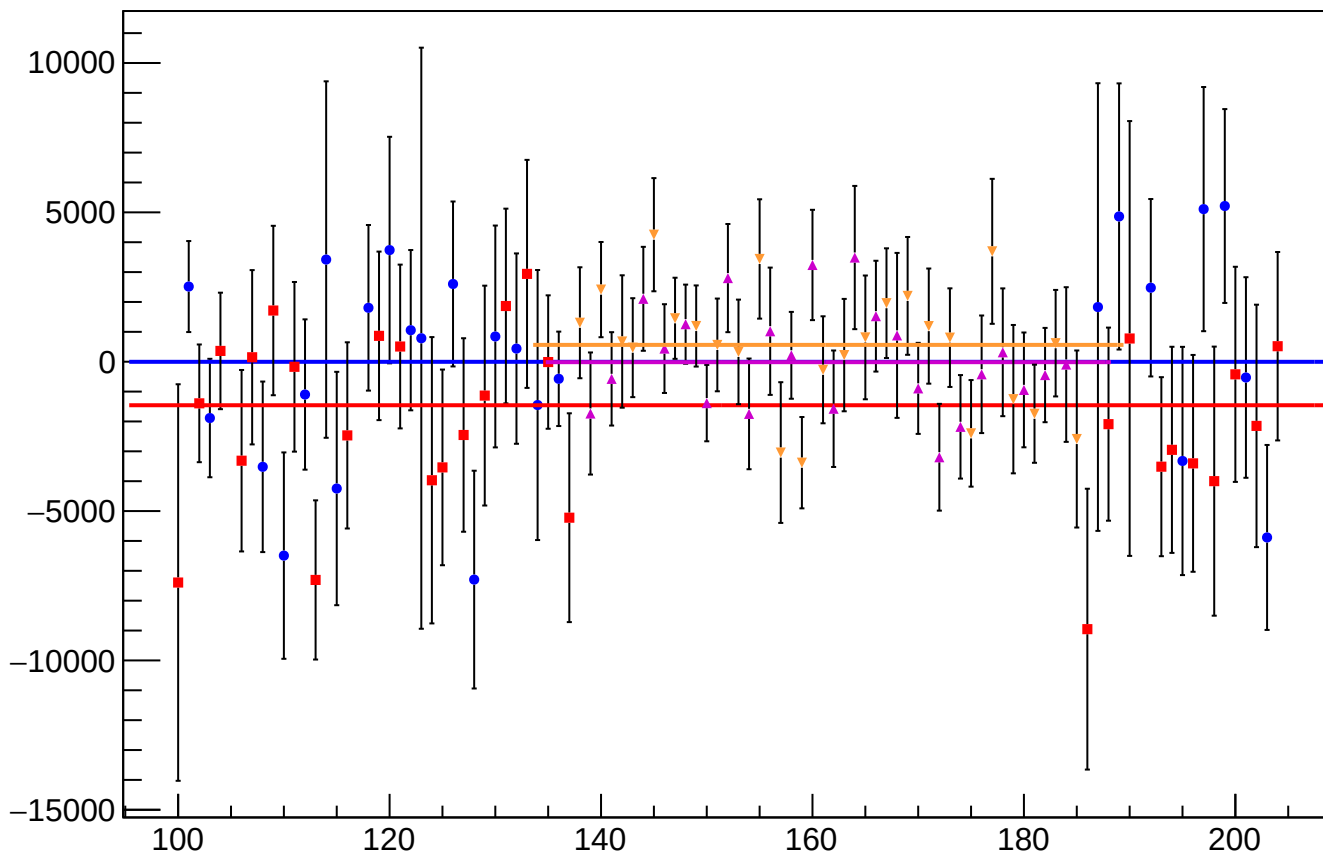
Right: 1108.852 $\pm$ 0.153 χ^2 /NDF: 48976.5/53

In: 1105.643 $\pm$ 0.144 χ^2 /NDF: 29523.4/47

Out: 1109.229 $\pm$ 0.138 χ^2 /NDF: 46003.3/53

All: 1107.511 $\pm$ 0.099 χ^2 /NDF: 75851.7/101

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -3.417 $\pm$ 585.483 χ^2/NDF : 27.6/24

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

Right Out: -1457.152 $\pm$ 578.330 χ^2/NDF : 19.1/28

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

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

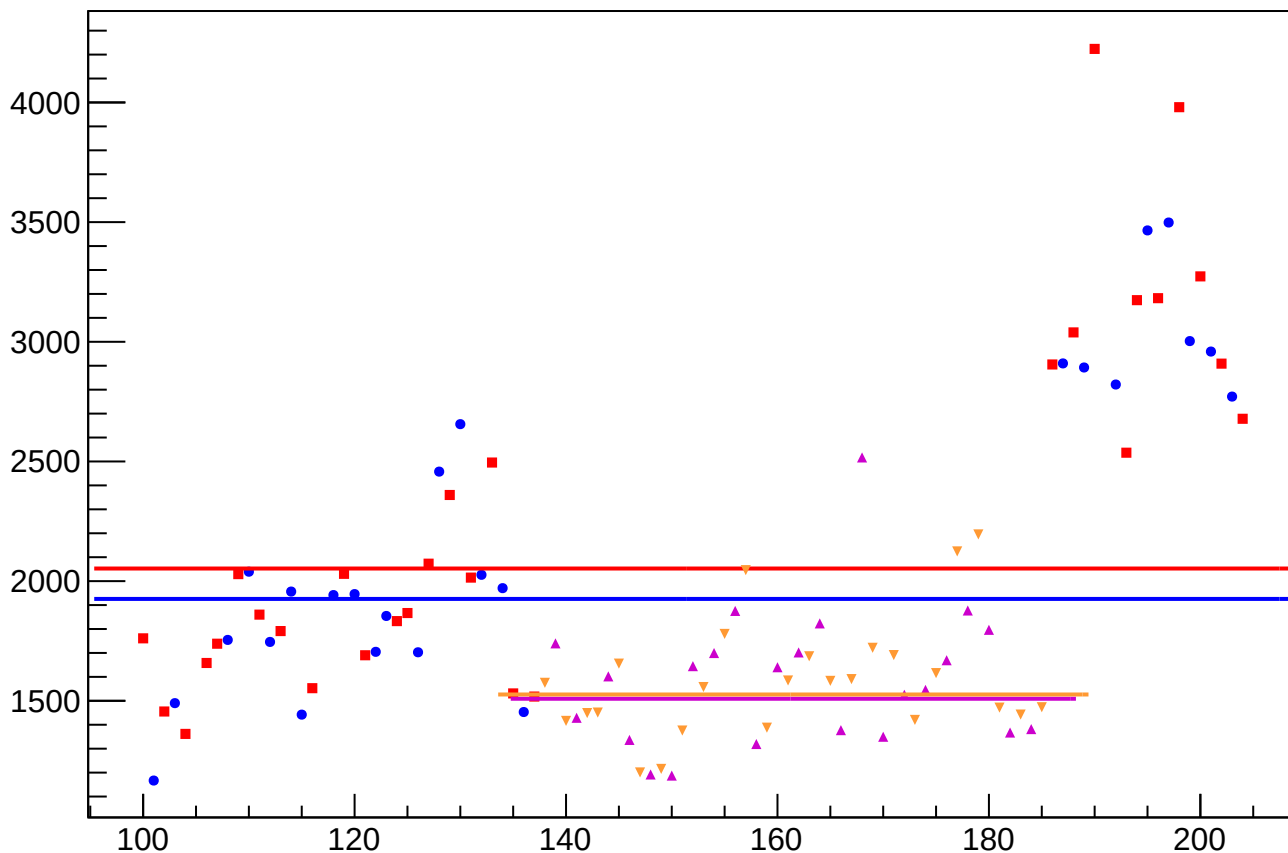
Right: -739.219 $\pm$ 411.446 χ^2/NDF : 49.8/53

In: -12.108 $\pm$ 310.870 χ^2/NDF : 47.8/47

Out: -3.003 $\pm$ 306.176 χ^2/NDF : 54.6/53

All: -7.486 $\pm$ 218.140 χ^2/NDF : 102.4/101

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1925.679+/-0.414 χ^2/NDF : 2461353.5/24

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

Right Out: 2052.704+/-0.409 χ^2/NDF : 2469831.5/28

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

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

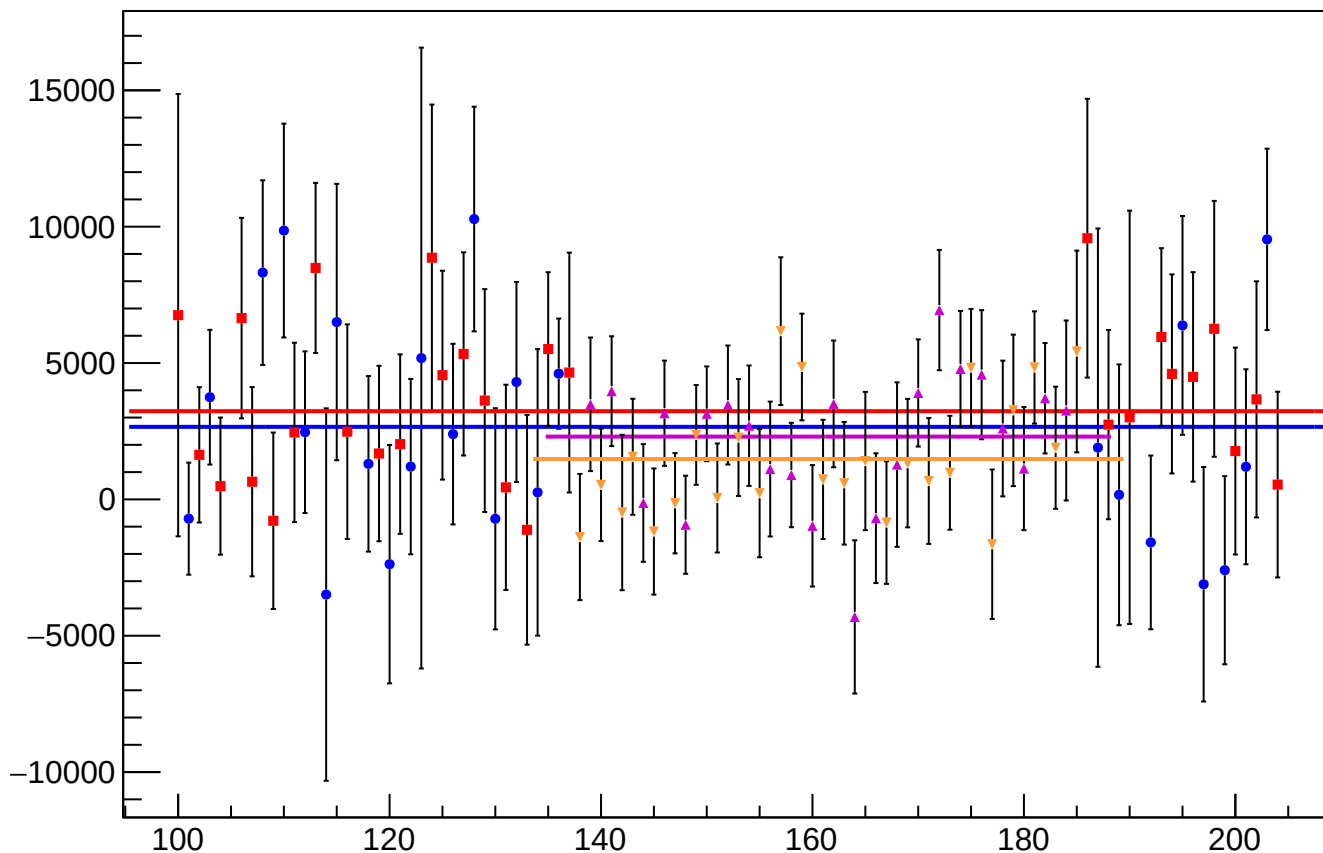
Right: 1989.972+/-0.291 χ^2/NDF : 4978833.7/53

In: 1626.171+/-0.220 χ^2/NDF : 4121908.1/47

Out: 1673.905+/-0.216 χ^2/NDF : 4415695.2/53

All: 1650.401+/-0.154 χ^2/NDF : 8561540.4/100

asym_usr_mean vs Slug, Sign Corrected



Right In: 2659.970+/-694.438 χ^2/NDF : 29.1/24

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

Right Out: 3234.271+/-673.588 χ^2/NDF : 15.6/28

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

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

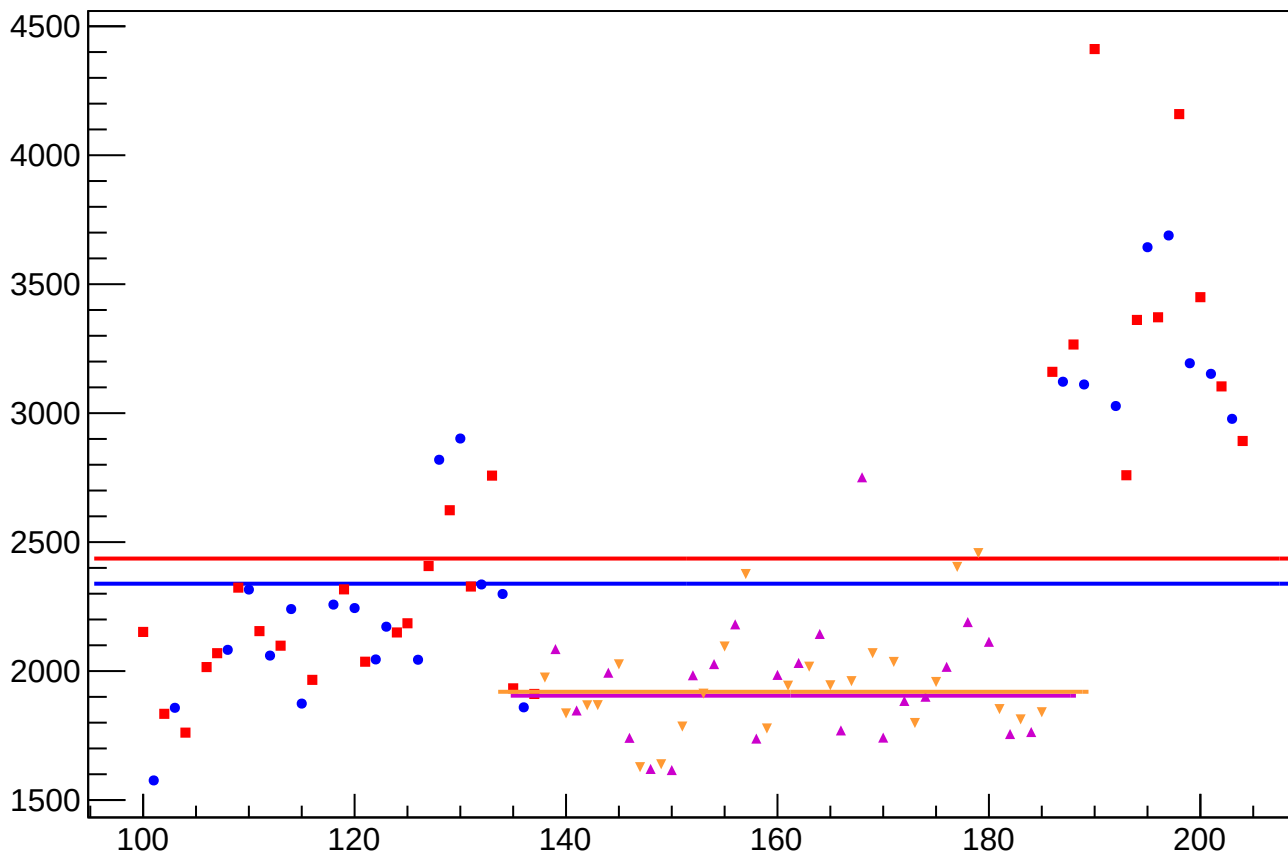
Right: 2955.871+/-483.502 χ^2/NDF : 45.1/53

In: 2410.329+/-382.939 χ^2/NDF : 54.1/47

Out: 2022.950+/-374.171 χ^2/NDF : 41.2/53

All: 2212.154+/-267.625 χ^2/NDF : 95.9/101

asym_usr_rms vs Slug, Sign Corrected



Right In: 2338.772 $\pm$ 0.491 χ^2 /NDF: 1485356.3/24

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

Right Out: 2436.257 $\pm$ 0.476 χ^2 /NDF: 1591148.7/28

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

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

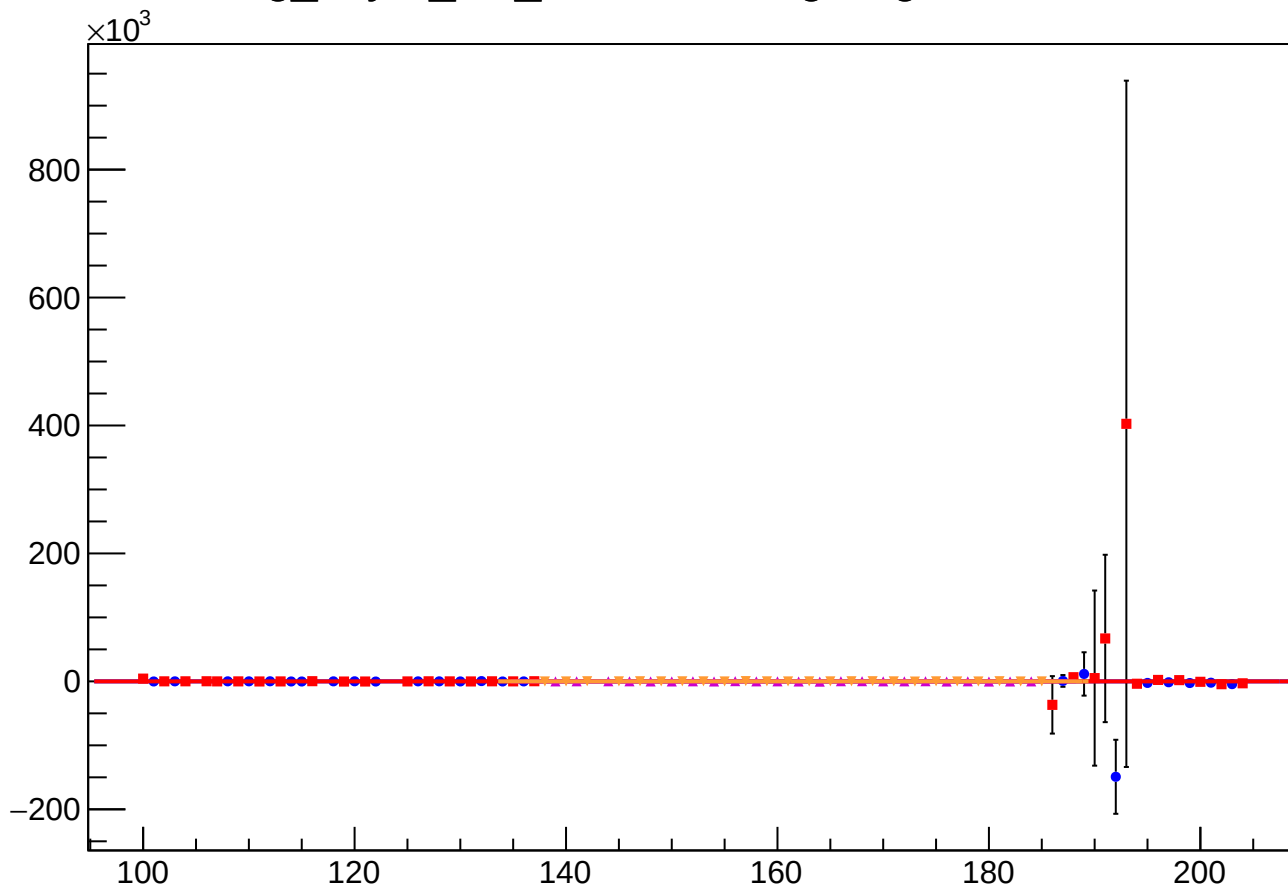
Right: 2389.000 $\pm$ 0.342 χ^2 /NDF: 3096812.1/53

In: 2036.644 $\pm$ 0.271 χ^2 /NDF: 2476693.3/47

Out: 2079.116 $\pm$ 0.265 χ^2 /NDF: 2770523.3/53

All: 2058.372 $\pm$ 0.189 χ^2 /NDF: 5259802.4/100

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.717 ± 36.765 $\chi^2/\text{NDF}: 25.3/23$

Left Out: 12.260 ± 26.260 $\chi^2/\text{NDF}: 35.9/23$

Right Out: 1.512 ± 36.749 $\chi^2/\text{NDF}: 18.5/28$

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

Left: 18.503 ± 18.598 $\chi^2/\text{NDF}: 72.4/46$

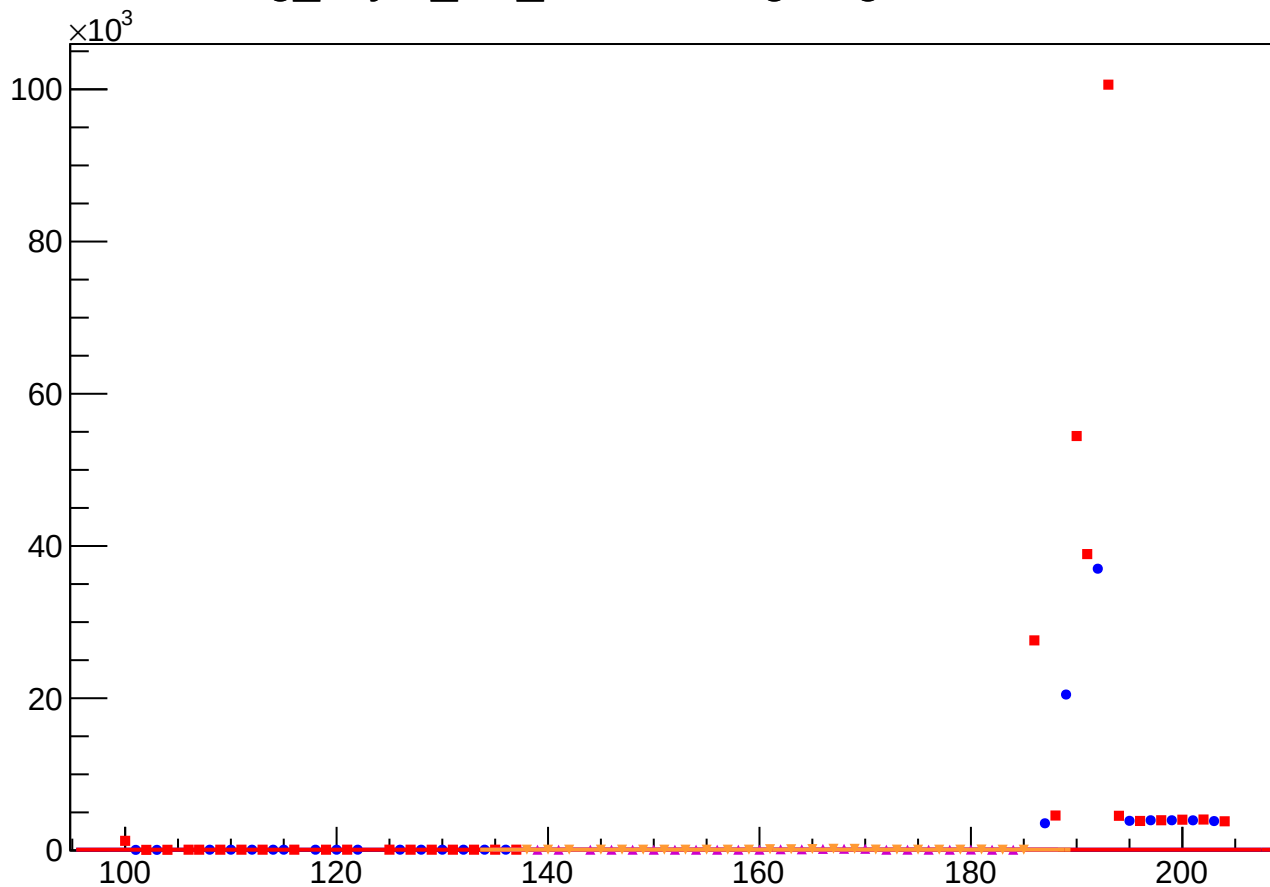
Right: -0.102 ± 25.991 $\chi^2/\text{NDF}: 43.8/52$

In: 15.795 ± 21.414 $\chi^2/\text{NDF}: 62.0/46$

Out: 8.627 ± 21.365 $\chi^2/\text{NDF}: 54.4/52$

All: 12.203 ± 15.125 $\chi^2/\text{NDF}: 116.5/99$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.496 $\pm$ 0.026 χ^2 /NDF: 9669532.8/23

Left Out: 108.059 $\pm$ 0.019 χ^2 /NDF: 1434979.3/23

Right Out: 97.924 $\pm$ 0.026 χ^2 /NDF: 10684100.9/28

Left In: 107.672 $\pm$ 0.019 χ^2 /NDF: 1491034.7/22

Left: 107.867 $\pm$ 0.013 χ^2 /NDF: 2926230.6/46

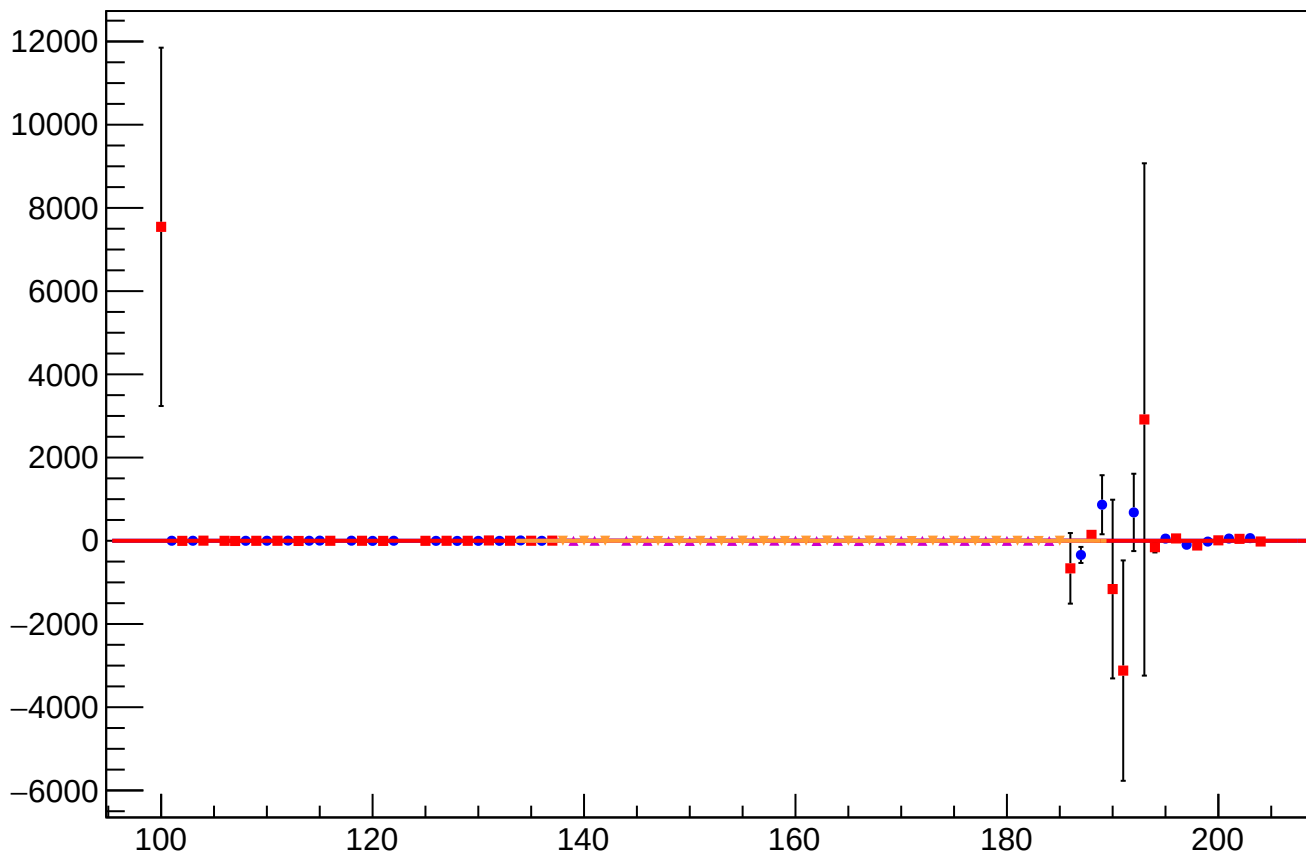
Right: 96.710 $\pm$ 0.018 χ^2 /NDF: 20357997.9/52

In: 103.541 $\pm$ 0.015 χ^2 /NDF: 11305531.1/46

Out: 104.633 $\pm$ 0.015 χ^2 /NDF: 12219789.6/52

All: 104.089 $\pm$ 0.011 χ^2 /NDF: 23527927.0/99

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.394+/-0.617 χ^2/NDF : 19.2/23

Left Out: -0.534+/-0.475 χ^2/NDF : 30.5/23

Right Out: -0.346+/-0.644 χ^2/NDF : 29.7/28

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

Left: -0.306+/-0.339 χ^2/NDF : 56.0/46

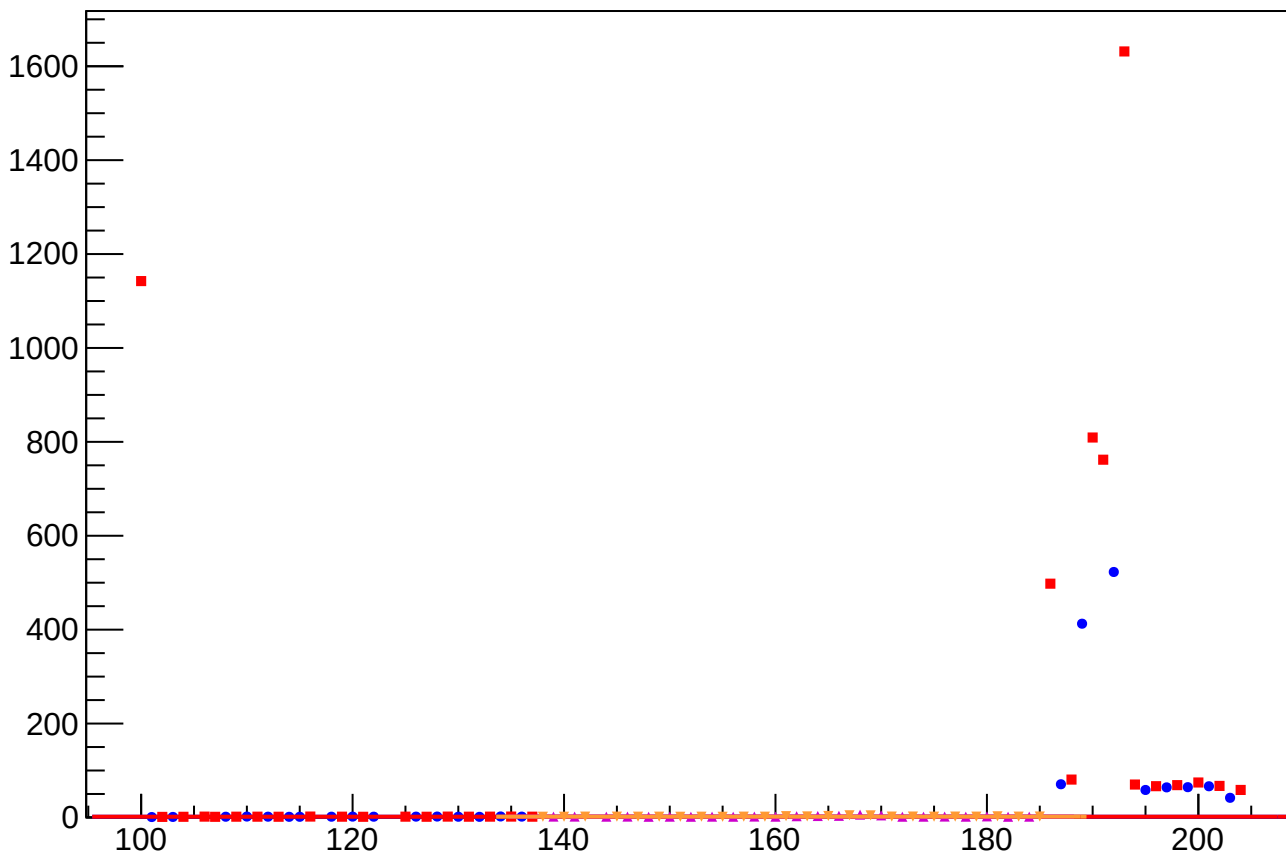
Right: 0.040+/-0.445 χ^2/NDF : 49.5/52

In: 0.109+/-0.381 χ^2/NDF : 44.5/46

Out: -0.468+/-0.382 χ^2/NDF : 60.2/52

All: -0.179+/-0.270 χ^2/NDF : 105.9/99

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.442+/-0.000 χ^2/NDF : 8391051.5/23

Left Out: 1.771+/-0.000 χ^2/NDF :1599621.6/23

Right Out: 1.579+/-0.000 χ^2/NDF : 9427265.3/28

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

Left: 1.787+/-0.000 χ^2/NDF : 3525124.6/46

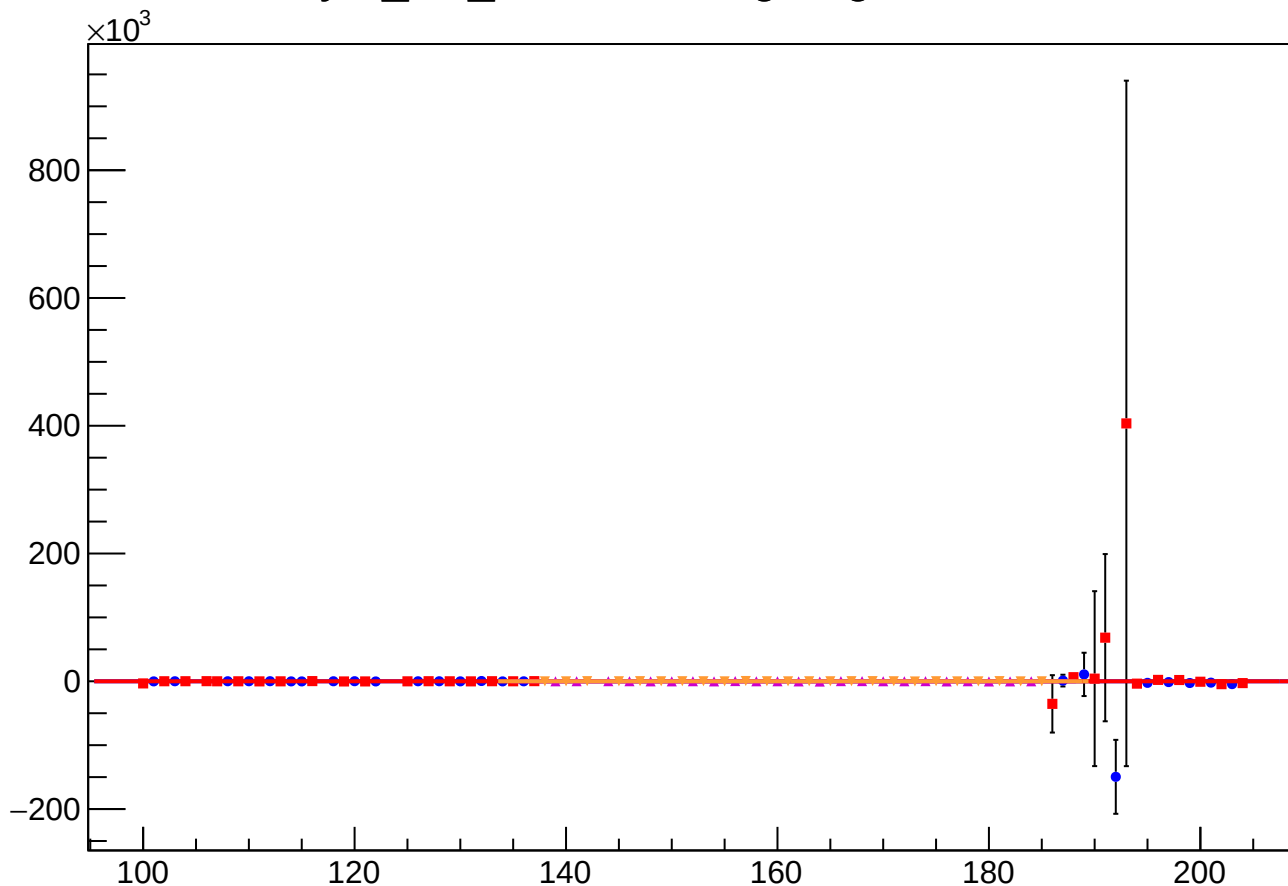
Right: 1.508+/-0.000 χ^2/NDF : 17866065.7/52

In: 1.665+/-0.000 χ^2/NDF :10735397.8/46

Out: 1.704+/-0.000 χ^2/NDF :11142002.1/52

All: 1.684+/-0.000 χ^2/NDF : 21887744.9/99

asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.428 ± 36.774 $\chi^2/\text{NDF}: 25.5/23$

Left Out: 12.948 ± 26.268 $\chi^2/\text{NDF}: 35.7/23$

Right Out: 1.278 ± 36.759 $\chi^2/\text{NDF}: 17.9/28$

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

Left: 19.110 ± 18.604 $\chi^2/\text{NDF}: 71.6/46$

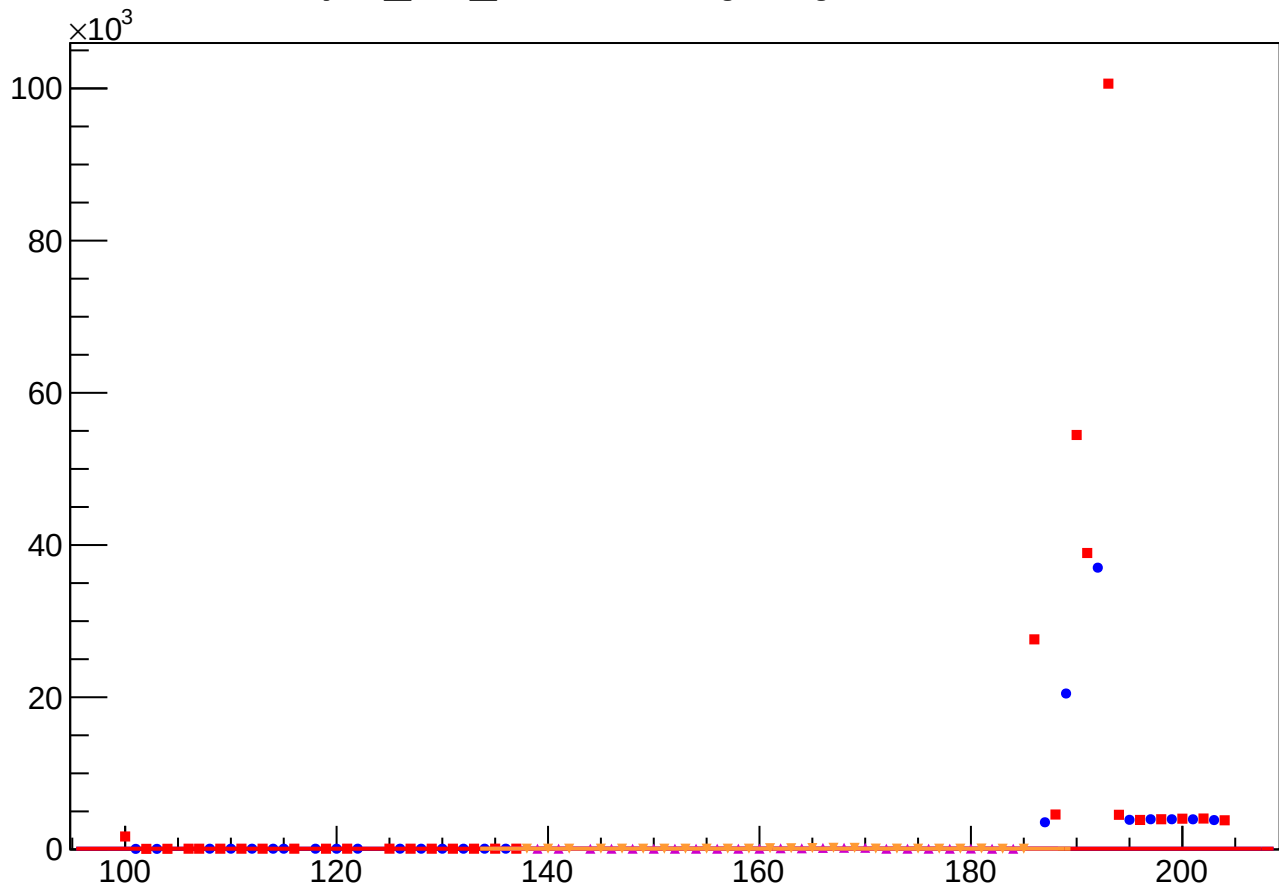
Right: -0.074 ± 25.998 $\chi^2/\text{NDF}: 43.5/52$

In: 16.240 ± 21.420 $\chi^2/\text{NDF}: 61.6/46$

Out: 9.003 ± 21.372 $\chi^2/\text{NDF}: 53.7/52$

All: 12.613 ± 15.129 $\chi^2/\text{NDF}: 115.4/99$

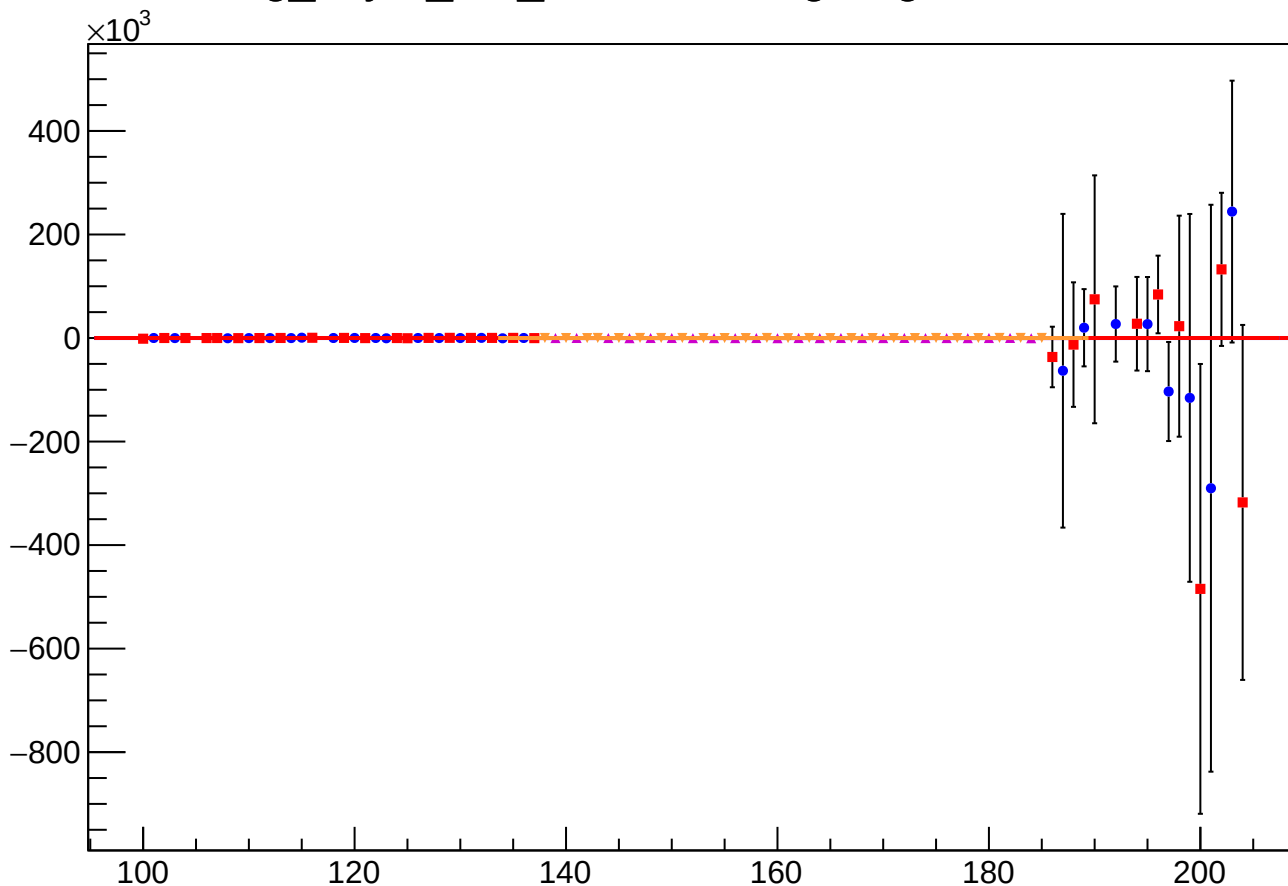
asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.520 $\pm$ 0.026 χ^2 /NDF: 9669520.6/23
 Left Out: 108.090 $\pm$ 0.019 χ^2 /NDF: 1436368.7/23
 Right Out: 97.933 $\pm$ 0.026 χ^2 /NDF: 10689364.5/28
 Left In: 107.703 $\pm$ 0.019 χ^2 /NDF: 1492338.5/22

Left: 107.897 $\pm$ 0.013 χ^2 /NDF: 2928923.7/46
 Right: 96.727 $\pm$ 0.018 χ^2 /NDF: 20363191.9/52
 In: 103.570 $\pm$ 0.015 χ^2 /NDF: 11306889.2/46
 Out: 104.657 $\pm$ 0.015 χ^2 /NDF: 12226814.0/52
 All: 104.115 $\pm$ 0.011 χ^2 /NDF: 23536284.0/99

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.793 ± 46.841 $\chi^2/\text{NDF}: 17.3/24$

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

Right Out: 53.405 ± 47.775 $\chi^2/\text{NDF}: 20.2/27$

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

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

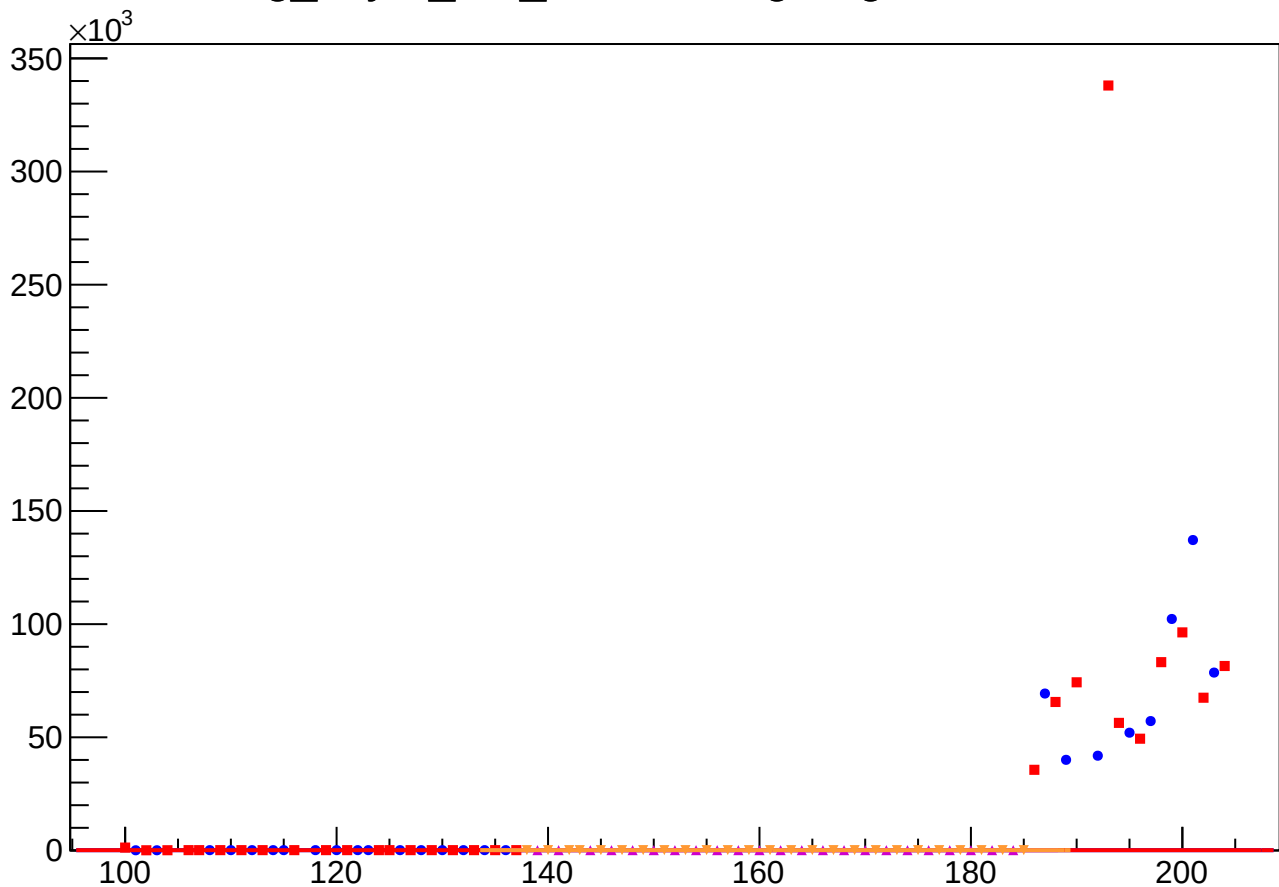
Right: 12.515 ± 33.447 $\chi^2/\text{NDF}: 38.9/52$

In: -52.580 ± 26.947 $\chi^2/\text{NDF}: 37.0/47$

Out: 7.739 ± 26.623 $\chi^2/\text{NDF}: 33.5/52$

All: -22.056 ± 18.939 $\chi^2/\text{NDF}: 73.0/100$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.838 $\pm$ 0.033 χ^2 /NDF: 4416904.4/24

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

Right Out: 124.820 $\pm$ 0.034 χ^2 /NDF: 5268232.2/28

Left In: 137.804 $\pm$ 0.023 χ^2 /NDF: 460.3/22

Left: 137.831 $\pm$ 0.016 χ^2 /NDF: 906.3/47

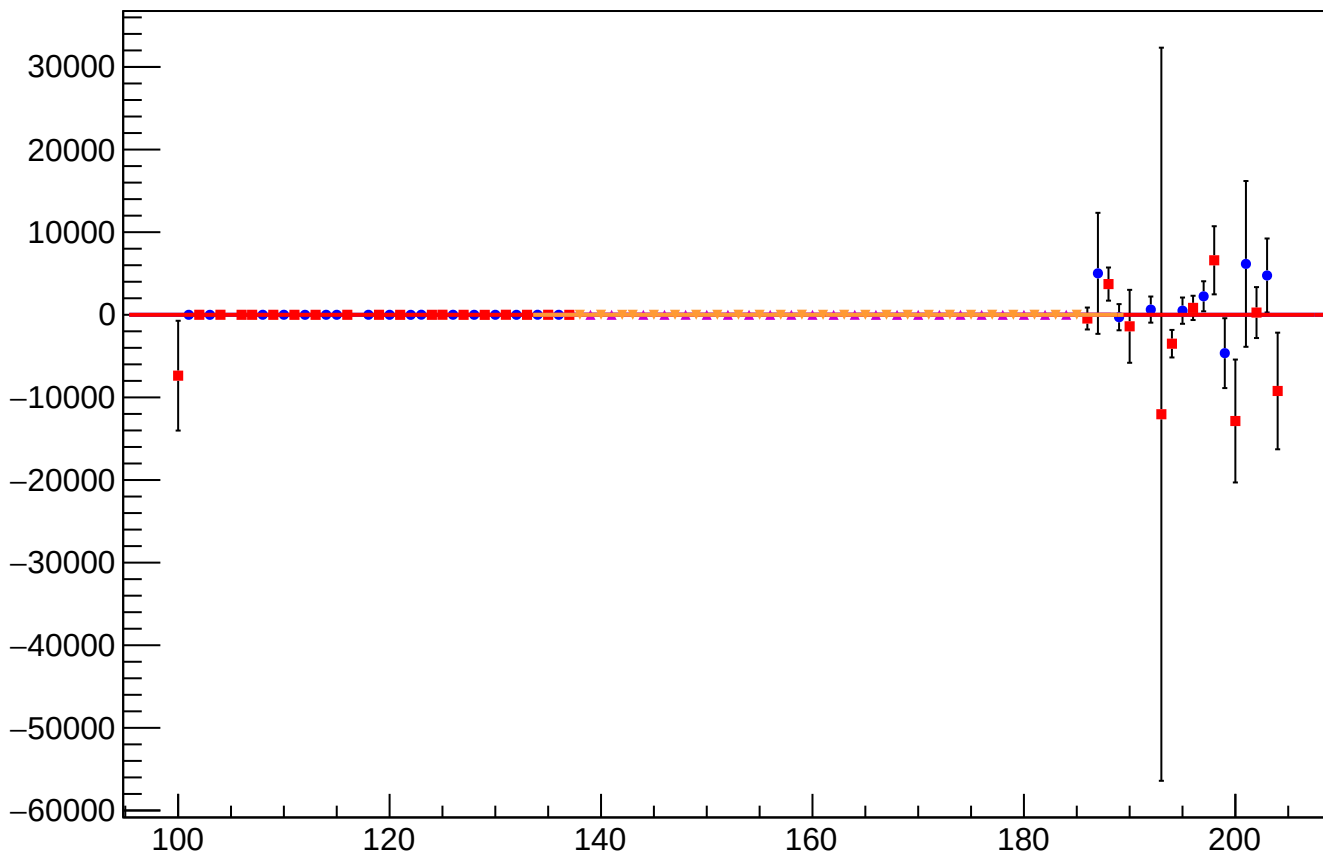
Right: 121.260 $\pm$ 0.024 χ^2 /NDF: 9706916.6/53

In: 131.197 $\pm$ 0.019 χ^2 /NDF: 4660495.1/47

Out: 133.808 $\pm$ 0.019 χ^2 /NDF: 5371350.7/53

All: 132.518 $\pm$ 0.013 χ^2 /NDF: 10041351.9/100

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.810 $\chi^2/\text{NDF}: 17.2/24$

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

Right Out: -0.638 ± 0.852 $\chi^2/\text{NDF}: 30.4/28$

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

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

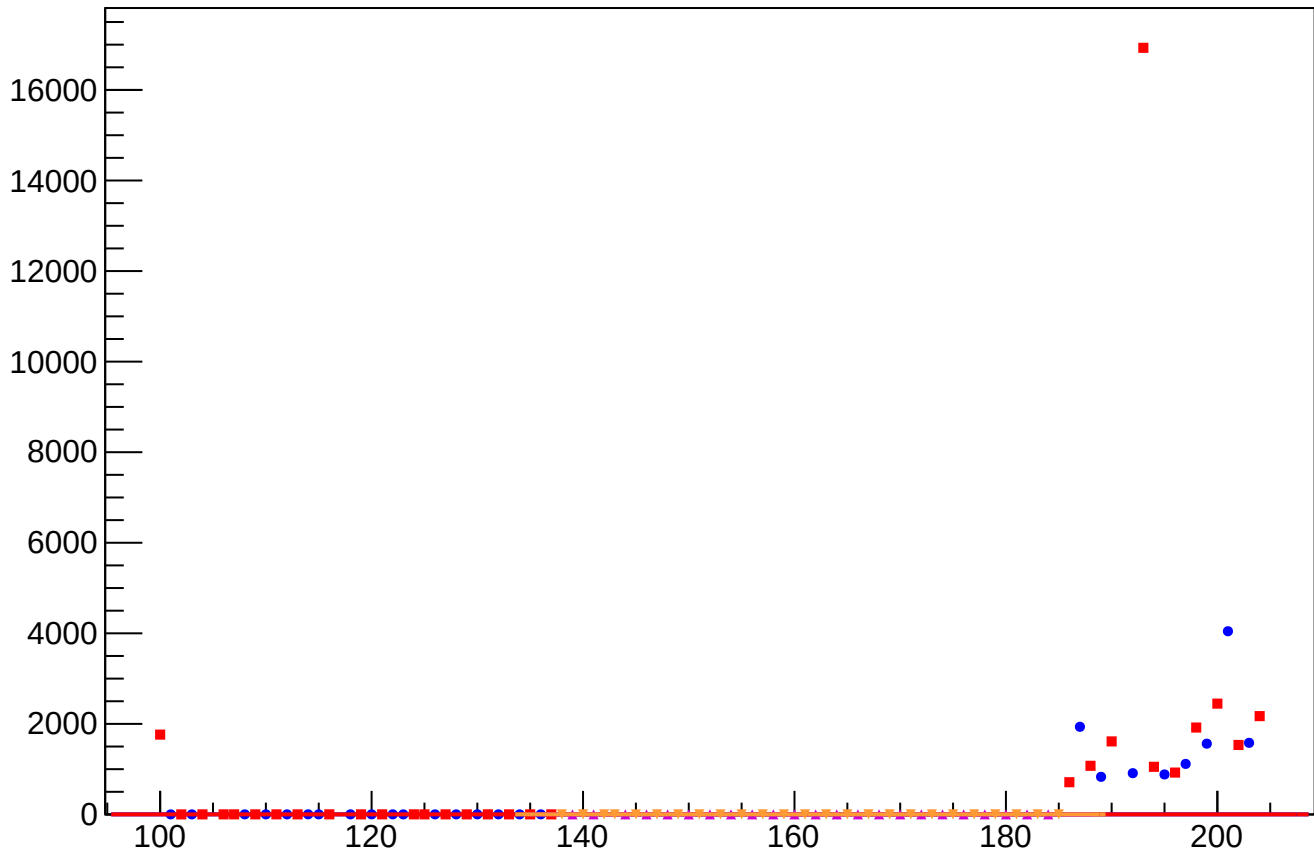
Right: -0.680 ± 0.587 $\chi^2/\text{NDF}: 47.6/53$

In: -0.051 ± 0.471 $\chi^2/\text{NDF}: 38.9/47$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 60.6/53$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 99.6/101$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866+/-0.001 χ^2/NDF : 4049936.6/24

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

Right Out: 2.065+/-0.001 χ^2/NDF : 5145331.0/28

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

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

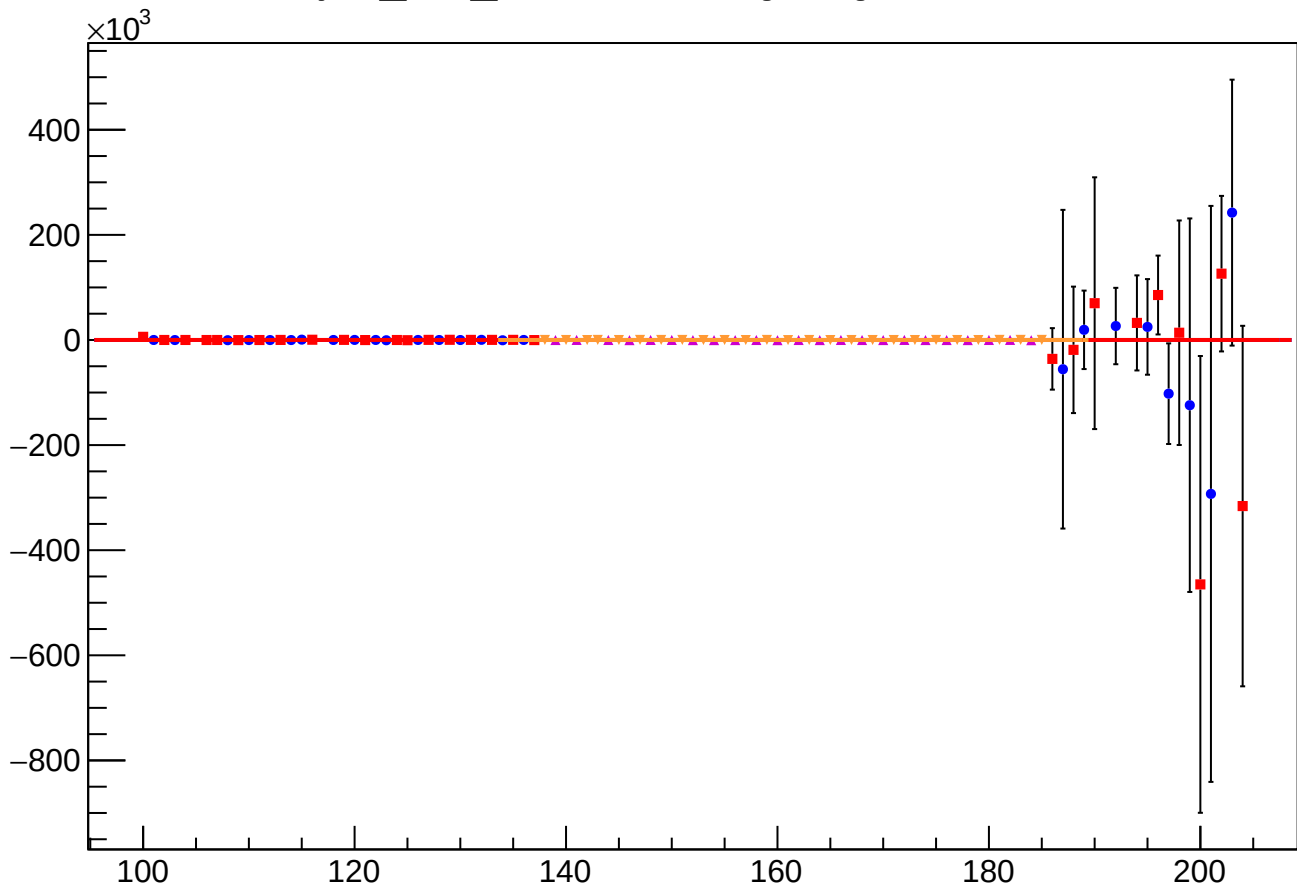
Right: 1.961+/-0.000 χ^2/NDF : 9252329.3/53

In: 2.082+/-0.000 χ^2/NDF :4775966.0/47

Out: 2.201+/-0.000 χ^2/NDF :5593928.0/53

All: 2.141+/-0.000 χ^2/NDF : 10432390.9/101

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.056 ± 46.854 χ^2/NDF : 17.3/24

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

Right Out: 54.307 ± 47.789 χ^2/NDF : 20.7/27

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

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

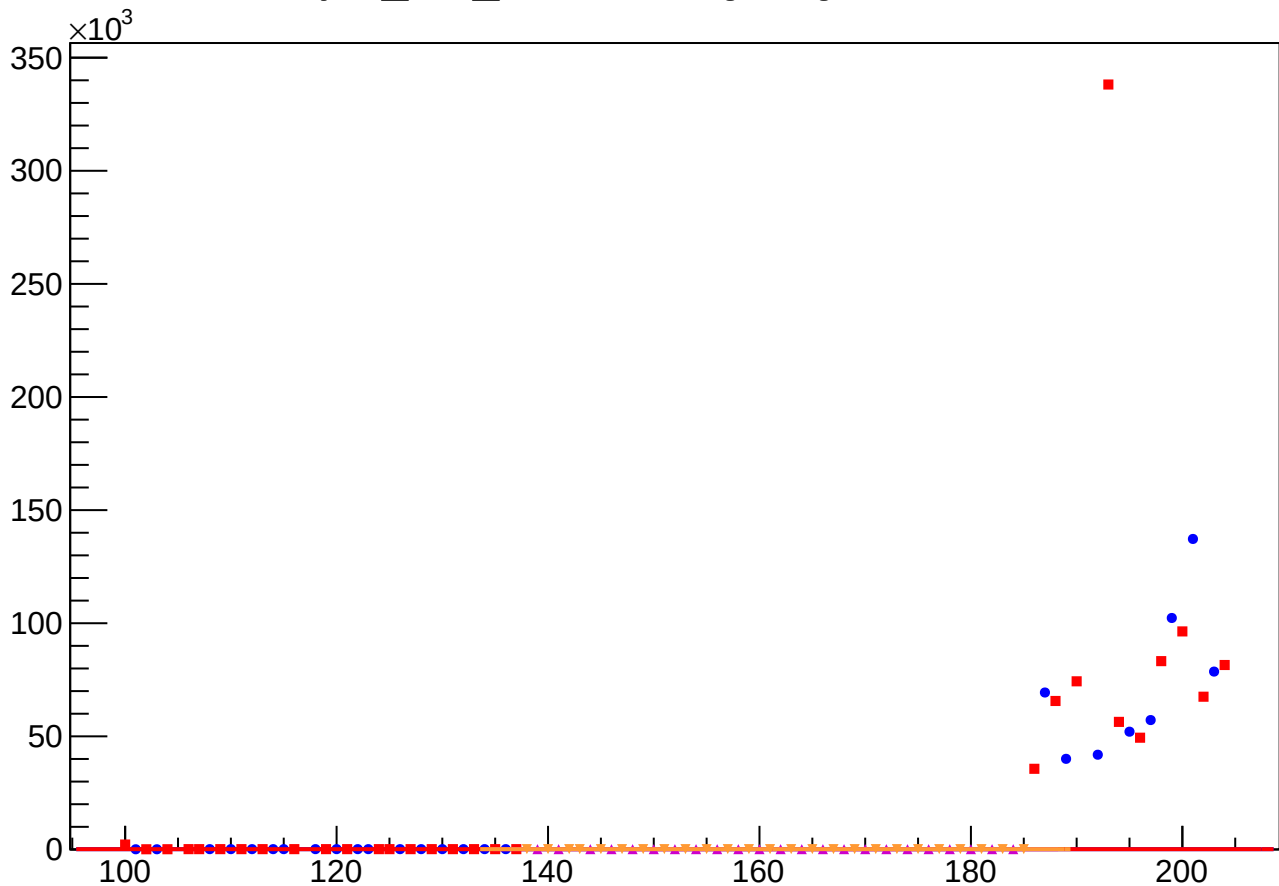
Right: 13.842 ± 33.456 χ^2/NDF : 39.4/52

In: -51.935 ± 26.954 χ^2/NDF : 37.1/47

Out: 7.637 ± 26.631 χ^2/NDF : 33.9/52

All: -21.790 ± 18.944 χ^2/NDF : 73.5/100

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.870 $\pm$ 0.033 χ^2 /NDF: 4417037.2/24

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

Right Out: 124.809 $\pm$ 0.034 χ^2 /NDF: 5278898.7/28

Left In: 137.843 $\pm$ 0.023 χ^2 /NDF:457.2/22

Left: 137.870 $\pm$ 0.016 χ^2 /NDF: 900.6/47

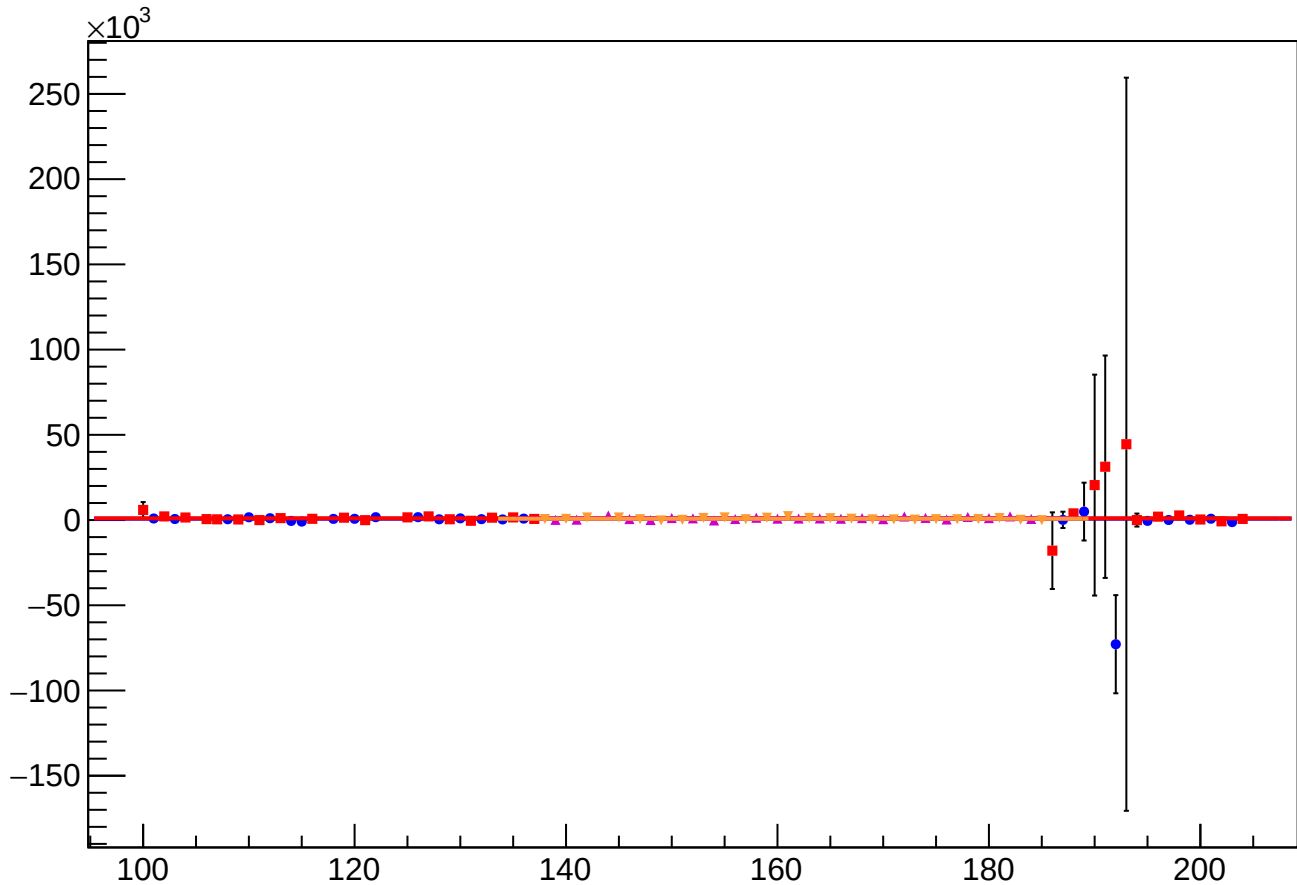
Right: 121.271 $\pm$ 0.024 χ^2 /NDF: 9717437.1/53

In: 131.233 $\pm$ 0.019 χ^2 /NDF:4660663.4/47

Out: 133.831 $\pm$ 0.019 χ^2 /NDF:5382738.3/53

All: 132.548 $\pm$ 0.013 χ^2 /NDF: 10052807.2/100

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 798.541 $\pm$ 211.663 χ^2 /NDF: 13.2/23

Left Out: 784.371 $\pm$ 134.054 χ^2 /NDF:19.2/23

Right Out: 1014.627 $\pm$ 208.260 χ^2 /NDF: 17.5/28

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

Left: 878.766 $\pm$ 95.099 χ^2 /NDF: 47.6/46

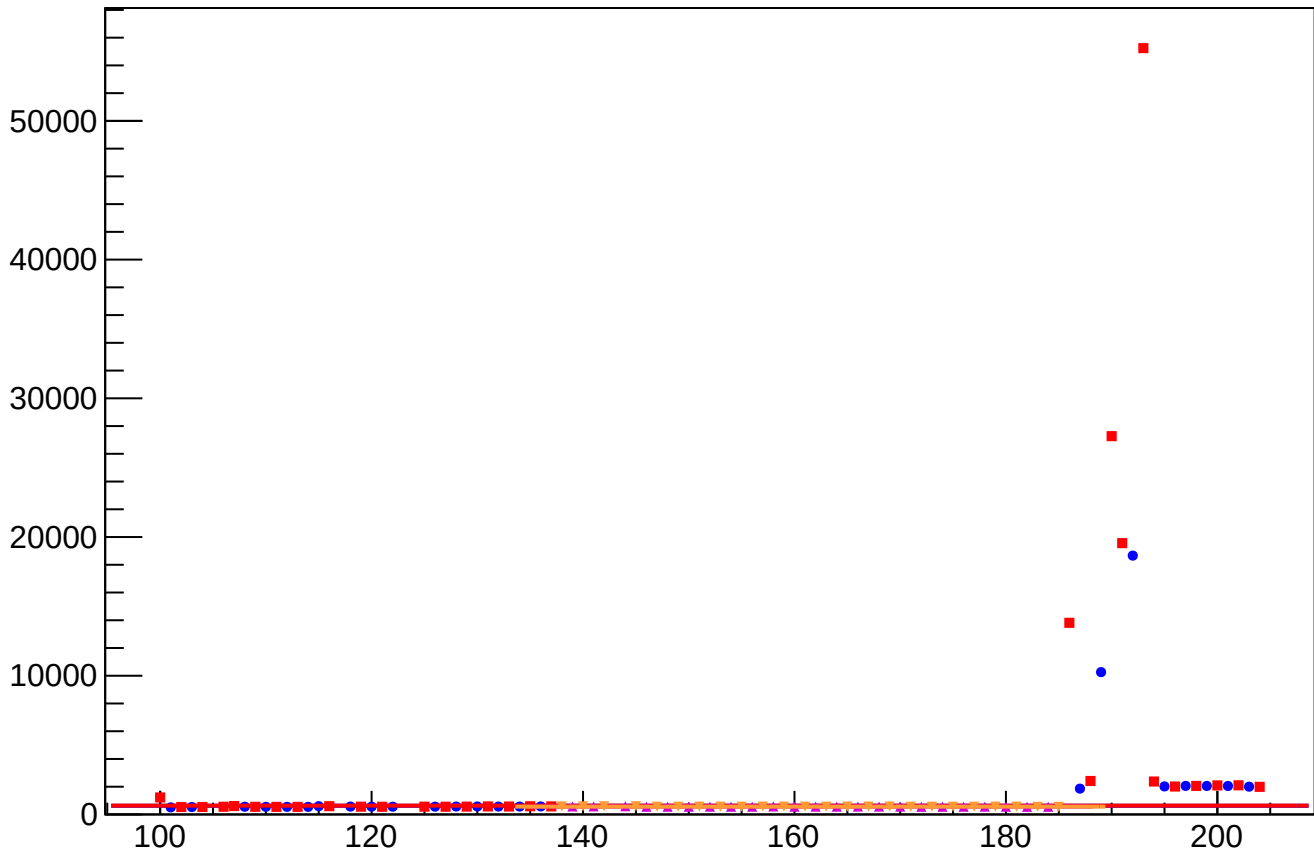
Right: 908.335 $\pm$ 148.450 χ^2 /NDF: 31.2/52

In: 923.586 $\pm$ 113.779 χ^2 /NDF:41.1/46

Out: 851.825 $\pm$ 112.721 χ^2 /NDF:37.5/52

All: 887.370 $\pm$ 80.077 χ^2 /NDF: 78.9/99

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 626.338+/-0.150 χ^2/NDF : 5661271.5/23

Left Out: 564.143+/-0.095 χ^2/NDF : 9594.1/23

Right Out: 635.797+/-0.147 χ^2/NDF : 6315588.7/28

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

Left: 564.262+/-0.067 χ^2/NDF : 18806.8/46

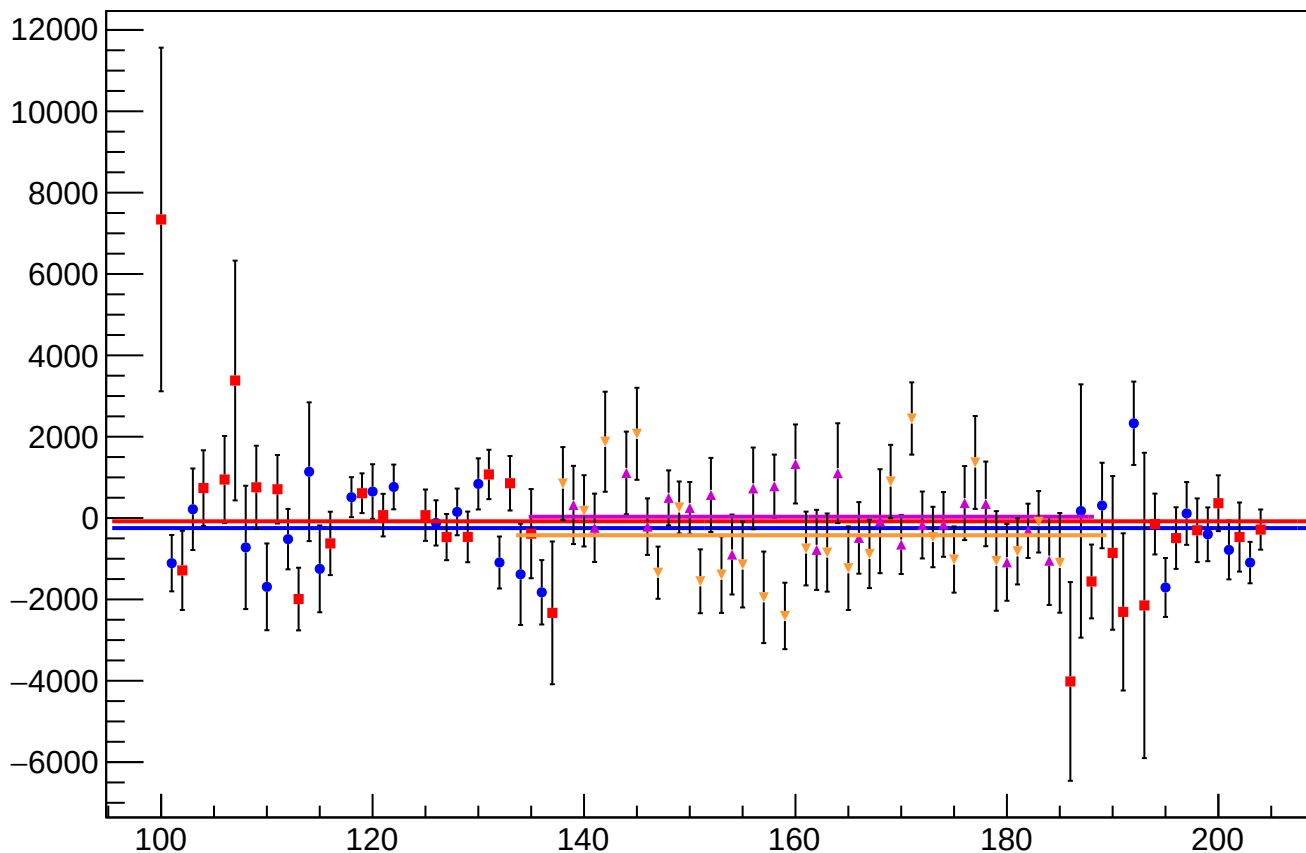
Right: 631.144+/-0.105 χ^2/NDF : 11978889.7/52

In: 582.285+/-0.080 χ^2/NDF : 5792320.2/46

Out: 585.134+/-0.080 χ^2/NDF : 6492578.3/52

All: 583.723+/-0.057 χ^2/NDF : 12285531.3/99

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -246.634 $\pm$ 150.422 χ^2 /NDF: 37.3/23

Left Out: -422.681 $\pm$ 180.610 χ^2 /NDF:43.2/23

Right Out: -79.784 $\pm$ 147.662 χ^2 /NDF: 34.4/28

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

Left: -193.644 $\pm$ 127.291 χ^2 /NDF: 58.6/46

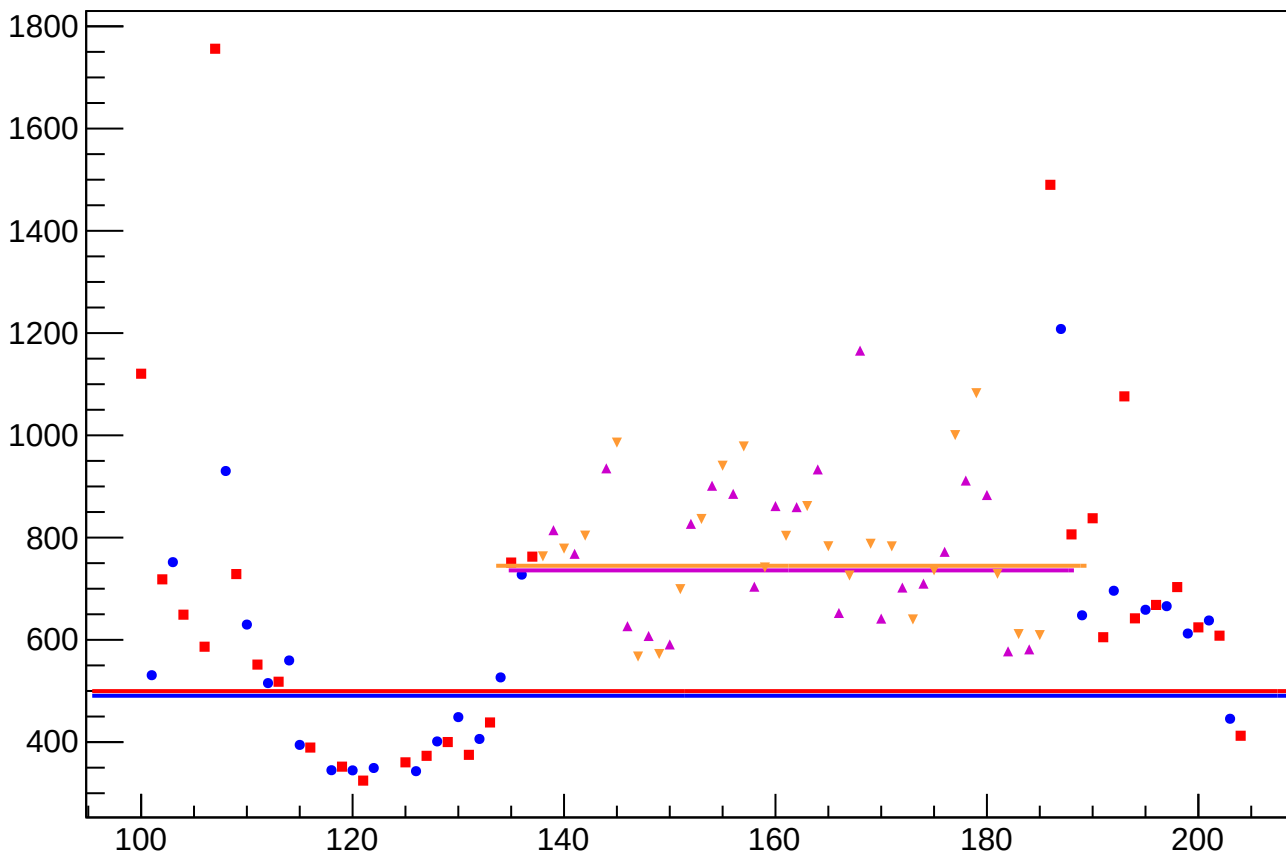
Right: -161.664 $\pm$ 105.375 χ^2 /NDF: 72.3/52

In: -131.464 $\pm$ 115.273 χ^2 /NDF:50.9/46

Out: -217.160 $\pm$ 114.318 χ^2 /NDF:79.8/52

All: -174.668 $\pm$ 81.171 χ^2 /NDF: 130.9/99

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 490.676+/-0.106 χ^2/NDF : 1791416.8/23

Left Out: 744.909+/-0.128 χ^2/NDF :1008847.7/23

Right Out: 499.747+/-0.104 χ^2/NDF : 2769208.8/28

Left In: 735.850+/-0.127 χ^2/NDF :1105405.5/22

Left: 740.350+/-0.090 χ^2/NDF : 2116785.5/46

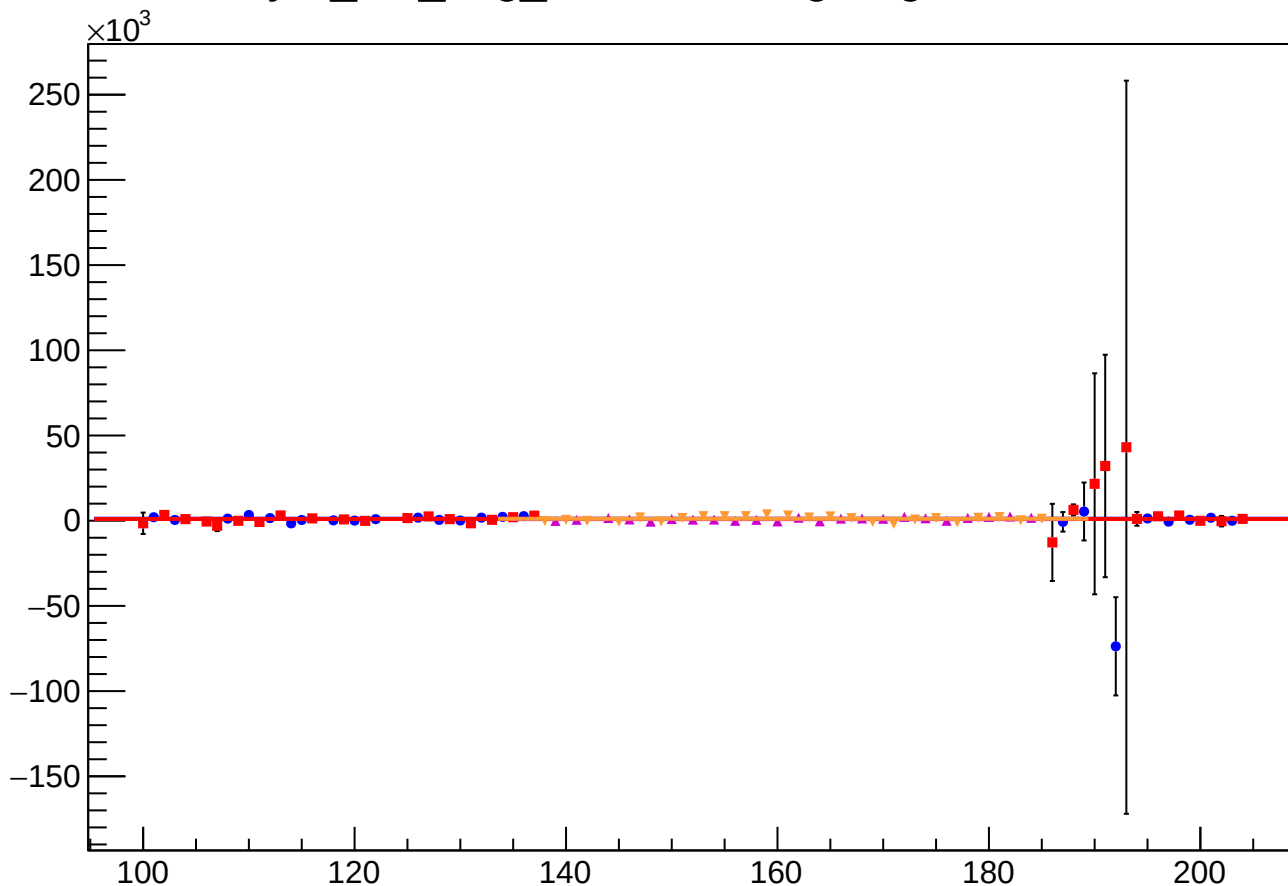
Right: 495.296+/-0.075 χ^2/NDF : 4564329.2/52

In: 591.867+/-0.082 χ^2/NDF :5089746.4/46

Out: 597.967+/-0.081 χ^2/NDF :5986804.6/52

All: 594.943+/-0.057 χ^2/NDF : 11079375.0/99

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1143.128 $\pm$ 284.826 χ^2 /NDF: 19.5/23

Left Out: 1137.936 $\pm$ 228.834 χ^2 /NDF:38.9/23

Right Out: 1013.242 $\pm$ 282.741 χ^2 /NDF: 28.2/28

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

Left: 1039.600 $\pm$ 161.629 χ^2 /NDF: 54.0/46

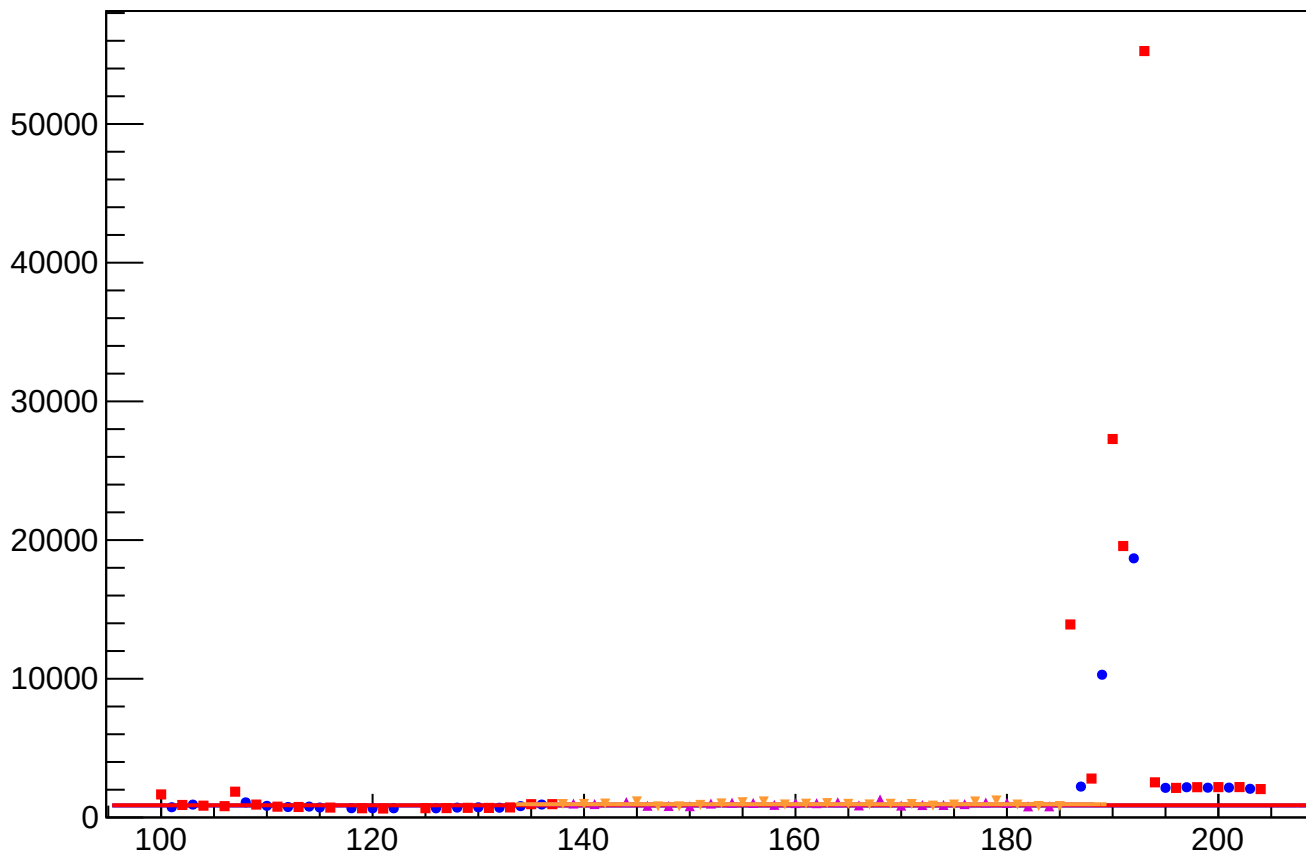
Right: 1077.708 $\pm$ 200.661 χ^2 /NDF: 47.8/52

In: 1020.502 $\pm$ 178.150 χ^2 /NDF:34.6/46

Out: 1088.584 $\pm$ 177.876 χ^2 /NDF:67.2/52

All: 1054.595 $\pm$ 125.874 χ^2 /NDF: 101.8/99

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 861.033+/-0.201 χ^2/NDF : 4881184.3/23

Left Out: 954.333+/-0.162 χ^2/NDF : 460147.5/23

Right Out: 877.740+/-0.200 χ^2/NDF : 5730206.4/28

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

Left: 950.444+/-0.114 χ^2/NDF : 962667.1/46

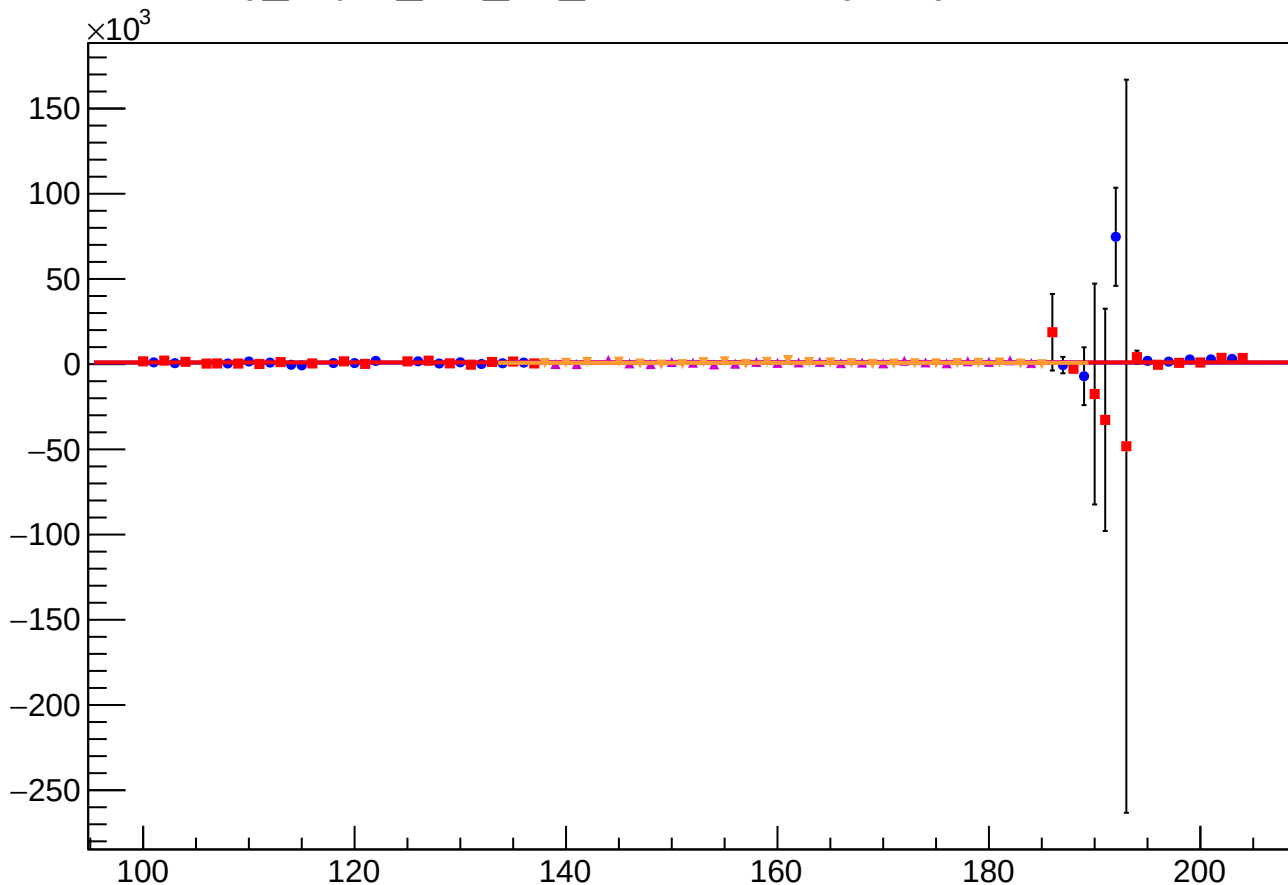
Right: 869.448+/-0.142 χ^2/NDF : 10614856.6/52

In: 913.109+/-0.126 χ^2/NDF : 5492369.9/46

Out: 924.019+/-0.126 χ^2/NDF : 6279035.0/52

All: 918.572+/-0.089 χ^2/NDF : 11775161.4/99

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 914.147 ± 211.520 χ^2/NDF : 15.6/23

Left Out: 757.642 ± 133.942 χ^2/NDF : 21.0/23

Right Out: 1032.887 ± 203.577 χ^2/NDF : 18.2/28

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

Left: 857.420 ± 95.022 χ^2/NDF : 49.0/46

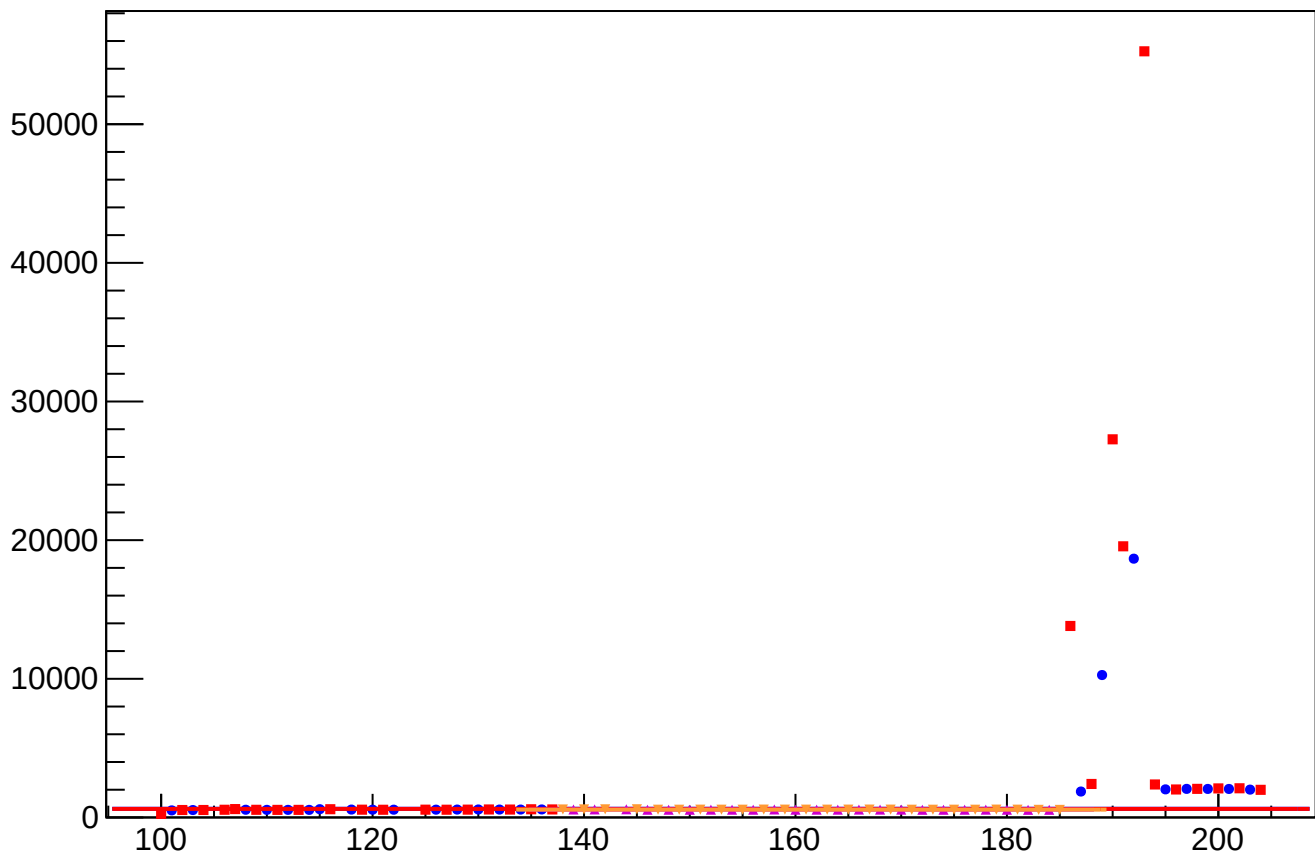
Right: 975.788 ± 146.679 χ^2/NDF : 34.0/52

In: 945.698 ± 113.692 χ^2/NDF : 42.5/46

Out: 840.796 ± 111.895 χ^2/NDF : 40.5/52

All: 892.411 ± 79.750 χ^2/NDF : 83.5/99

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 625.765+/-0.150 χ^2/NDF : 5670086.7/23

Left Out: 563.675+/-0.095 χ^2/NDF : 9542.9/23

Right Out: 616.900+/-0.144 χ^2/NDF : 6591465.5/28

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

Left: 563.803+/-0.067 χ^2/NDF : 18751.3/46

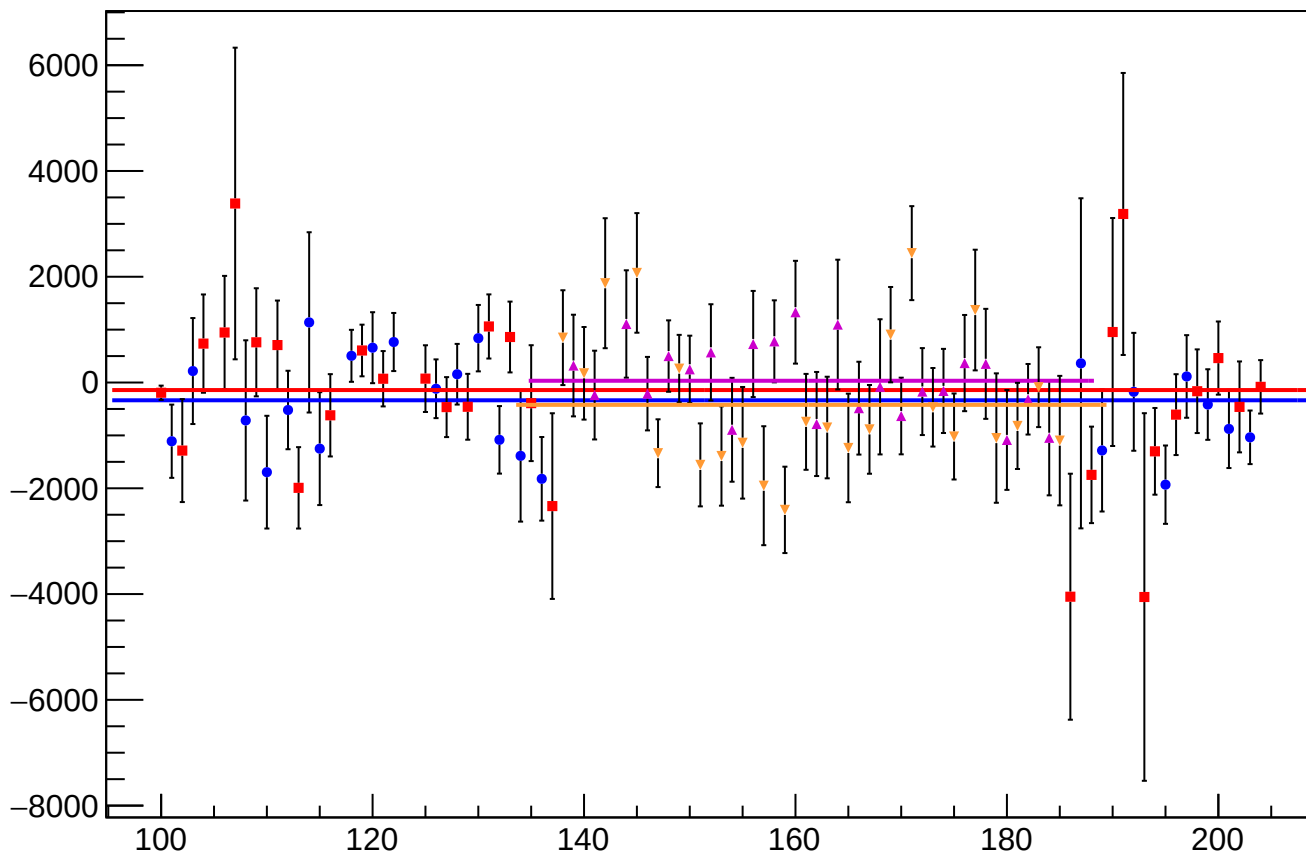
Right: 621.163+/-0.104 χ^2/NDF : 12263375.9/52

In: 581.797+/-0.080 χ^2/NDF : 5800816.9/46

Out: 579.755+/-0.079 χ^2/NDF : 6696420.3/52

All: 580.760+/-0.056 χ^2/NDF : 12497565.3/99

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -335.980 ± 151.247 $\chi^2/\text{NDF}: 32.1/23$

Left Out: -422.324 ± 180.531 $\chi^2/\text{NDF}: 43.3/23$

Right Out: -142.455 ± 100.025 $\chi^2/\text{NDF}: 36.1/28$

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

Left: -193.010 ± 127.237 $\chi^2/\text{NDF}: 58.6/46$

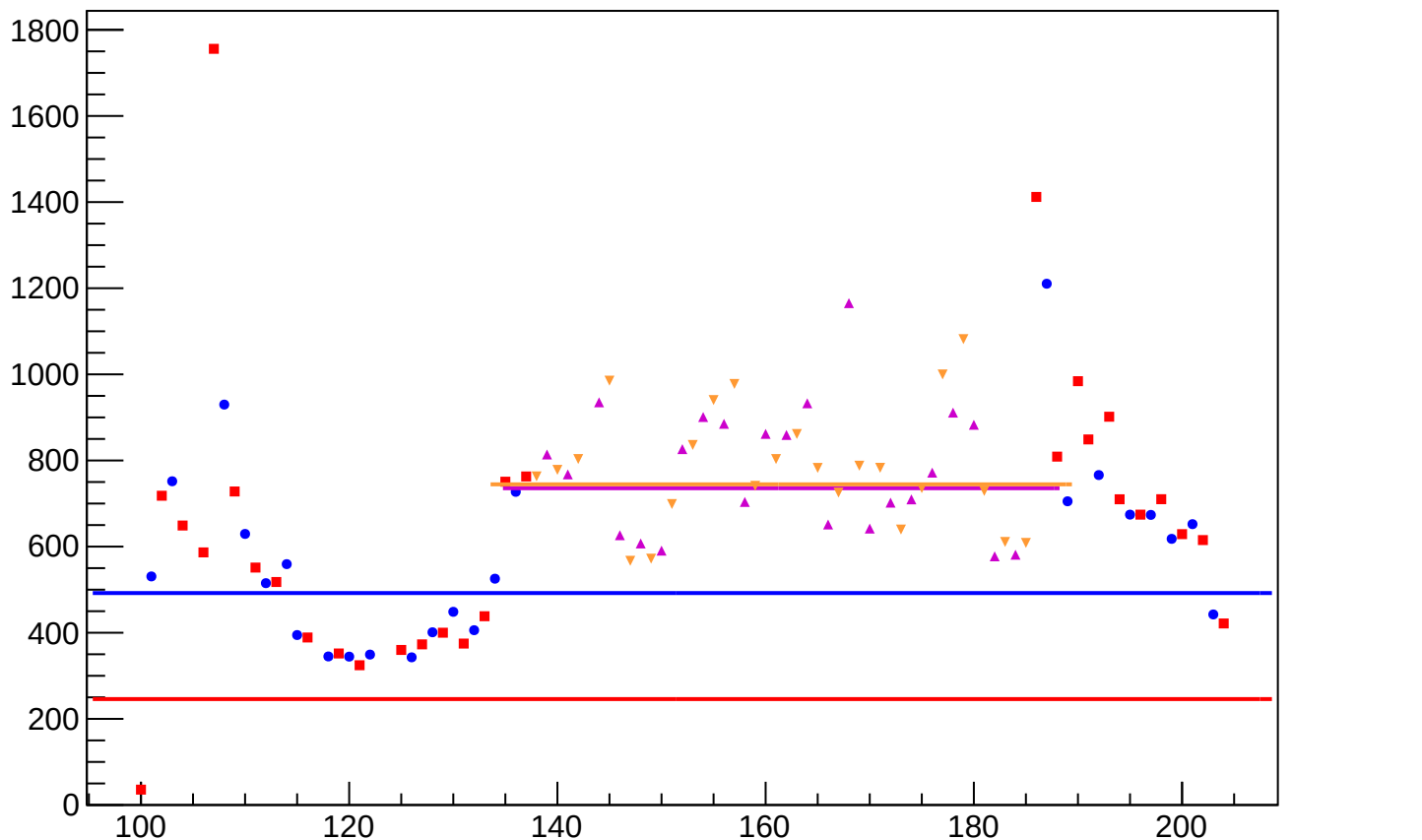
Right: -201.342 ± 83.430 $\chi^2/\text{NDF}: 69.4/52$

In: -182.501 ± 115.623 $\chi^2/\text{NDF}: 46.7/46$

Out: -208.190 ± 87.493 $\chi^2/\text{NDF}: 81.2/52$

All: -198.837 ± 69.769 $\chi^2/\text{NDF}: 128.0/99$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 492.144+/-0.107 χ^2/NDF : 1900594.7/23

Left Out: 744.597+/-0.128 χ^2/NDF :1009604.0/23

Right Out: 245.977+/-0.071 χ^2/NDF : 13588523.5/28

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

Left: 740.040+/-0.090 χ^2/NDF : 2117358.1/46

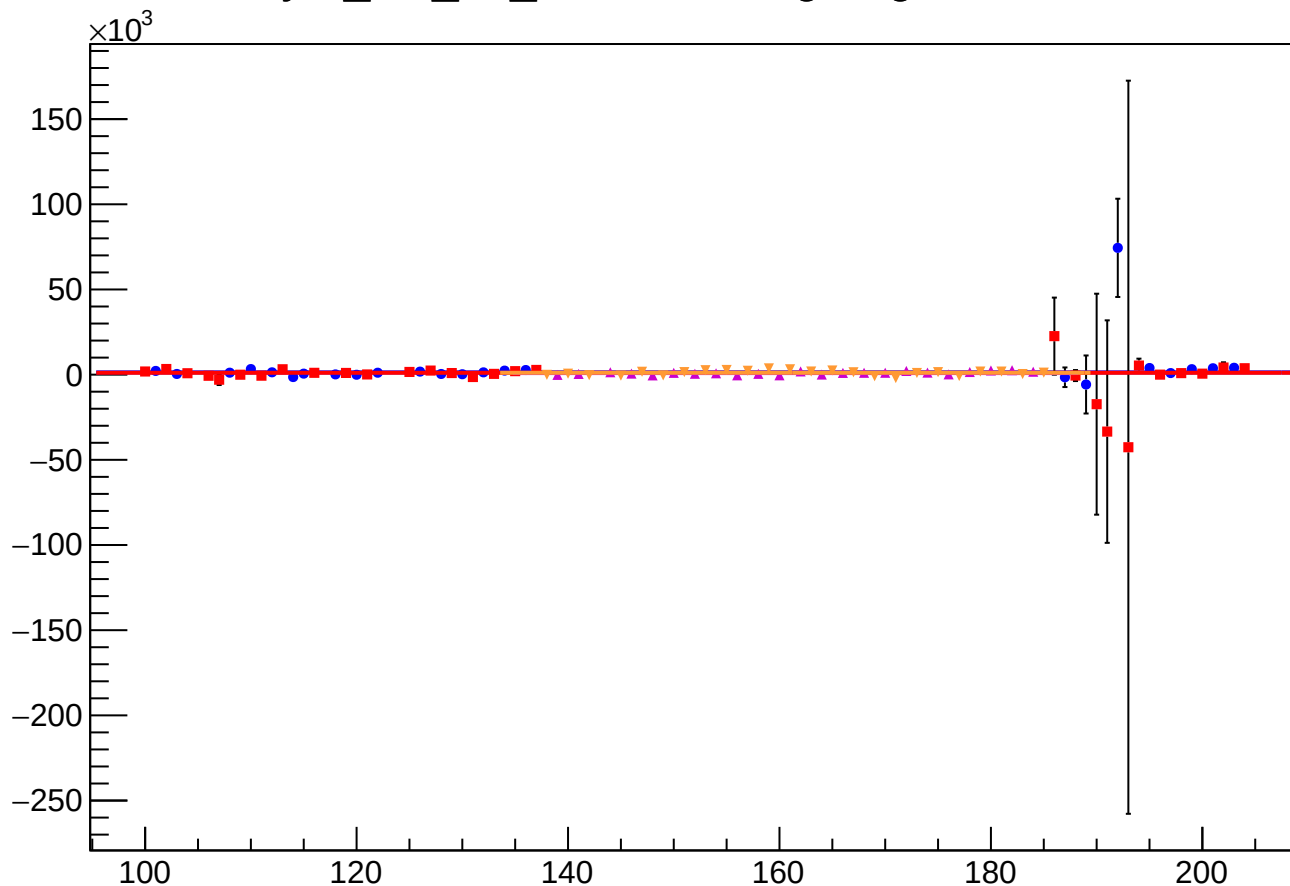
Right: 320.881+/-0.059 χ^2/NDF : 19175092.2/52

In: 593.297+/-0.082 χ^2/NDF :5158394.7/46

Out: 363.091+/-0.062 χ^2/NDF :26271483.5/52

All: 446.912+/-0.049 χ^2/NDF : 36471308.4/99

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1331.060 $\pm$ 284.702 χ^2 /NDF: 23.0/23

Left Out: 1105.144 $\pm$ 228.700 χ^2 /NDF:38.3/23

Right Out: 1096.155 $\pm$ 271.566 χ^2 /NDF: 27.6/28

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

Left: 1015.515 $\pm$ 161.537 χ^2 /NDF: 53.7/46

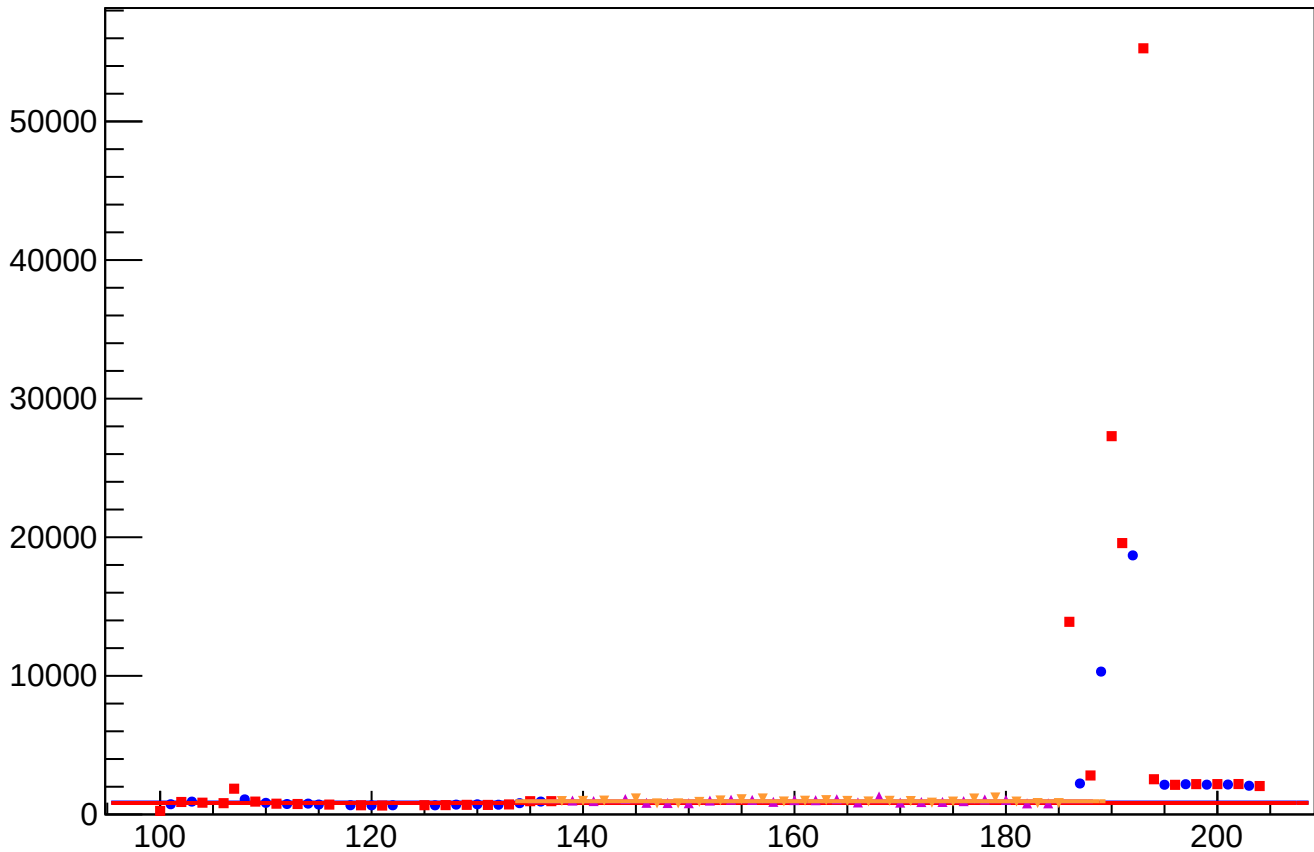
Right: 1208.063 $\pm$ 196.506 χ^2 /NDF: 50.9/52

In: 1084.611 $\pm$ 178.059 χ^2 /NDF:39.3/46

Out: 1101.414 $\pm$ 174.931 χ^2 /NDF:65.9/52

All: 1093.162 $\pm$ 124.786 χ^2 /NDF: 105.2/99

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 860.333+/-0.201 χ^2/NDF : 4895092.1/23

Left Out: 953.781+/-0.162 χ^2/NDF : 460211.0/23

Right Out: 826.853+/-0.192 χ^2/NDF : 6465180.2/28

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

Left: 949.902+/-0.114 χ^2/NDF : 962801.6/46

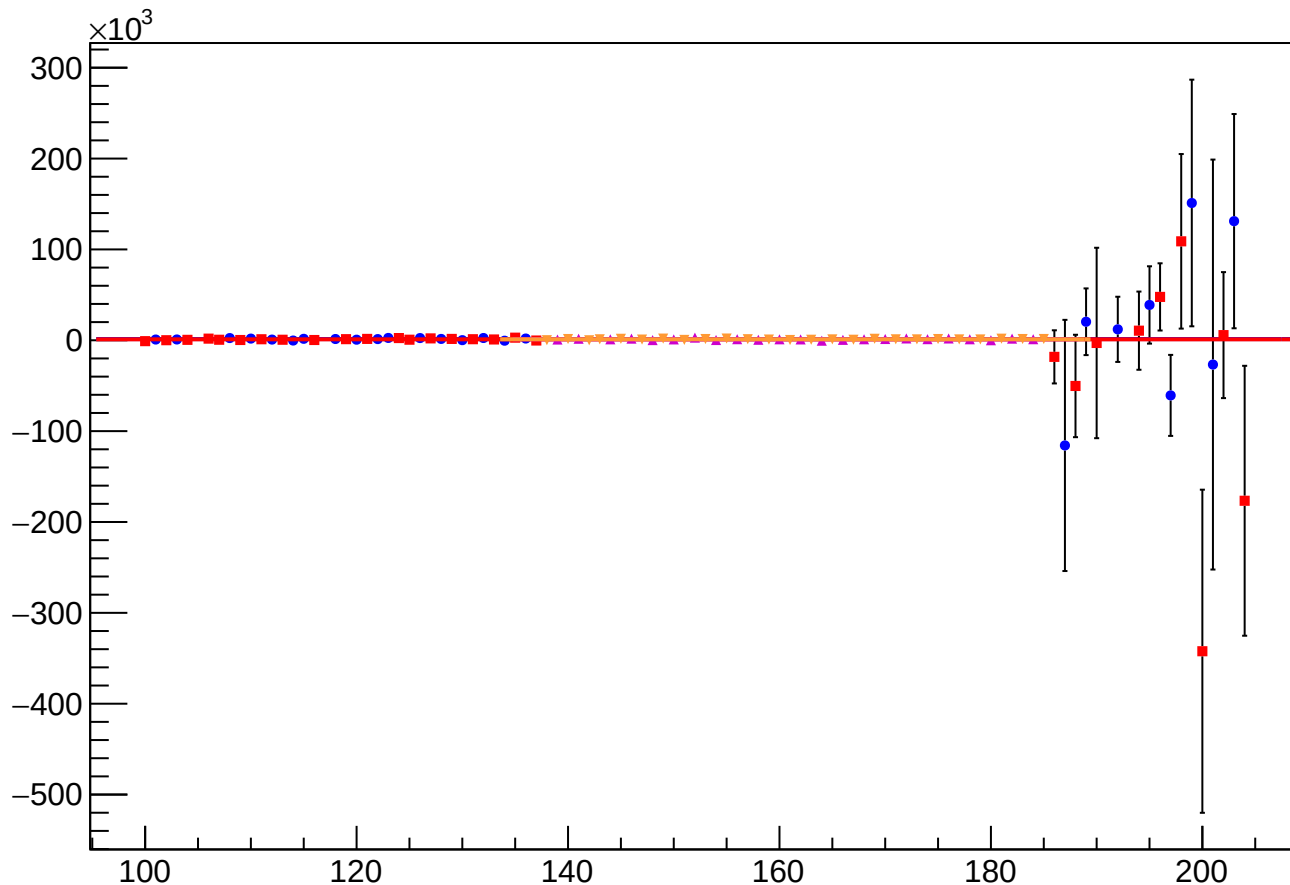
Right: 842.803+/-0.139 χ^2/NDF : 11374754.0/52

In: 912.516+/-0.126 χ^2/NDF : 5506892.0/46

Out: 901.114+/-0.124 χ^2/NDF : 7181012.9/52

All: 906.714+/-0.088 χ^2/NDF : 12692078.3/99

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.142 $\pm$ 218.585 χ^2 /NDF: 19.0/24

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

Right Out: 1040.229 $\pm$ 212.064 χ^2 /NDF: 22.8/27

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

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

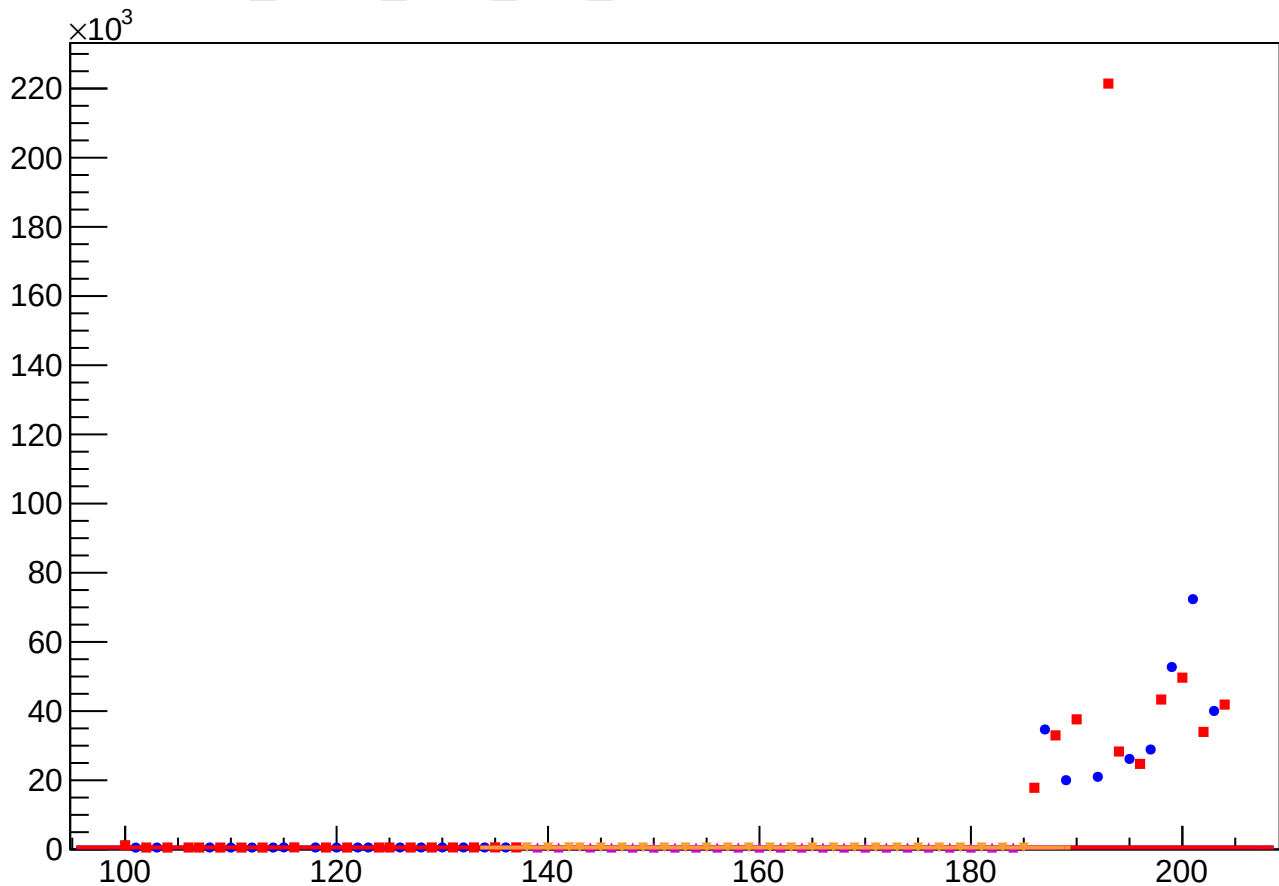
Right: 1178.372 $\pm$ 152.205 χ^2 /NDF: 42.7/52

In: 1178.339 $\pm$ 113.722 χ^2 /NDF:49.7/47

Out: 1064.535 $\pm$ 110.640 χ^2 /NDF:38.0/52

All: 1119.874 $\pm$ 79.301 χ^2 /NDF: 88.1/100

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 566.808 $\pm$ 0.155 χ^2 /NDF: 3711359.0/24

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

Right Out: 569.060 $\pm$ 0.150 χ^2 /NDF: 4720052.6/28

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

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

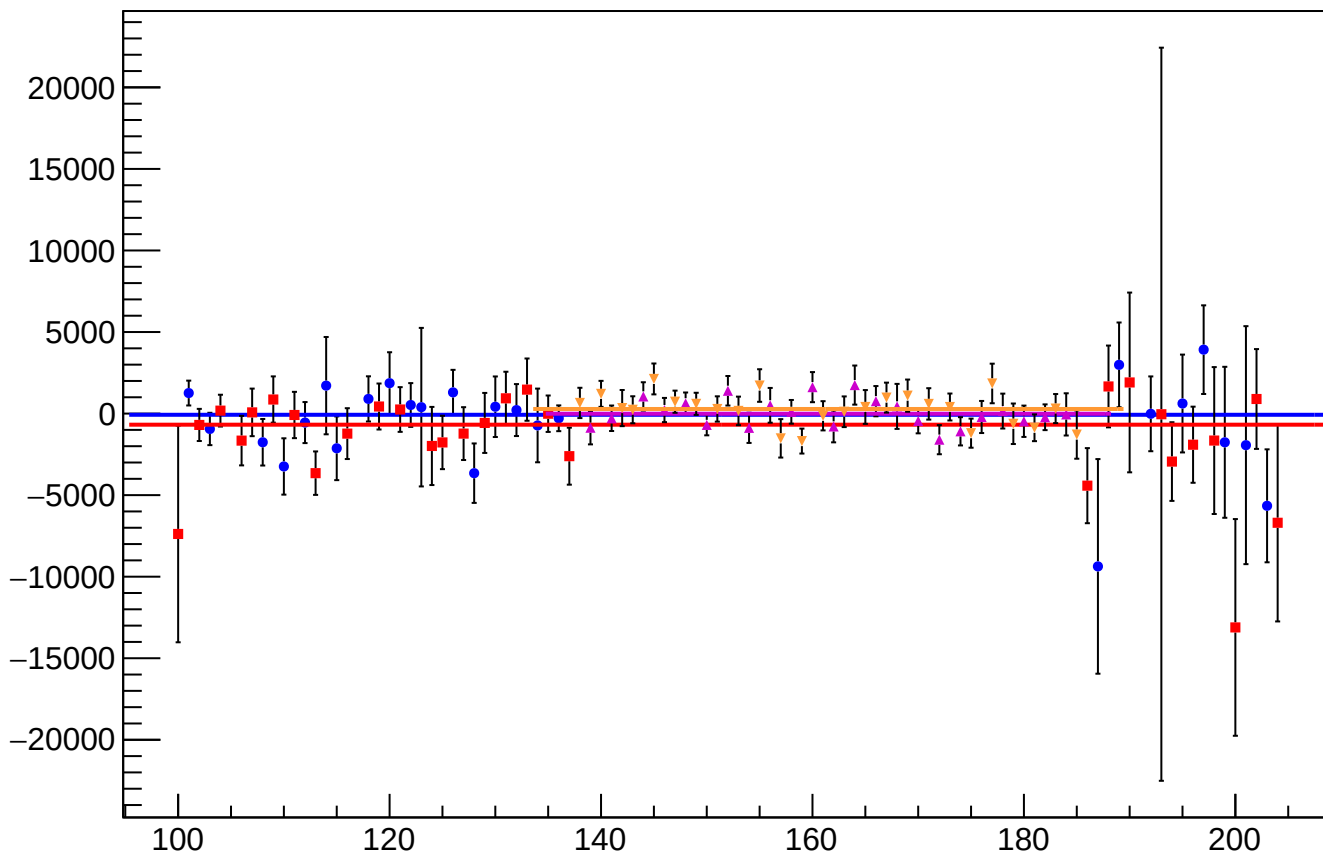
Right: 567.968 $\pm$ 0.108 χ^2 /NDF: 8431521.0/53

In: 559.632 $\pm$ 0.080 χ^2 /NDF:3725523.9/47

Out: 560.671 $\pm$ 0.078 χ^2 /NDF:4739105.2/53

All: 560.166 $\pm$ 0.056 χ^2 /NDF: 8464714.9/102

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -73.754 ± 315.645 $\chi^2/\text{NDF}: 25.4/24$

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

Right Out: -681.154 ± 316.805 $\chi^2/\text{NDF}: 24.4/28$

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

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

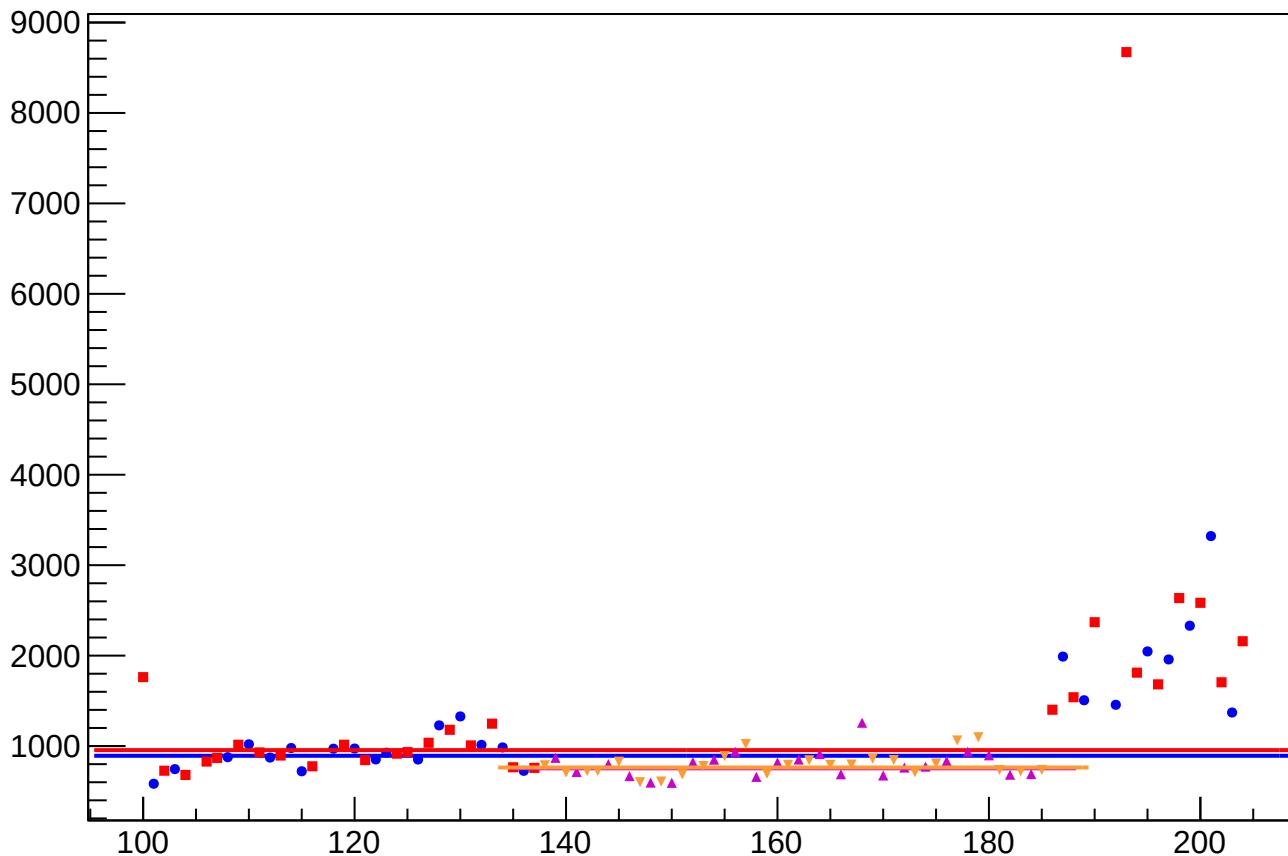
Right: -376.340 ± 223.604 $\chi^2/\text{NDF}: 51.7/53$

In: -24.751 ± 158.564 $\chi^2/\text{NDF}: 45.6/47$

Out: 46.022 ± 156.781 $\chi^2/\text{NDF}: 58.1/53$

All: 11.036 ± 111.486 $\chi^2/\text{NDF}: 103.9/101$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 892.576+/-0.223 χ^2/NDF : 2042085.1/24

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

Right Out: 955.129+/-0.224 χ^2/NDF : 2133382.5/28

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

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

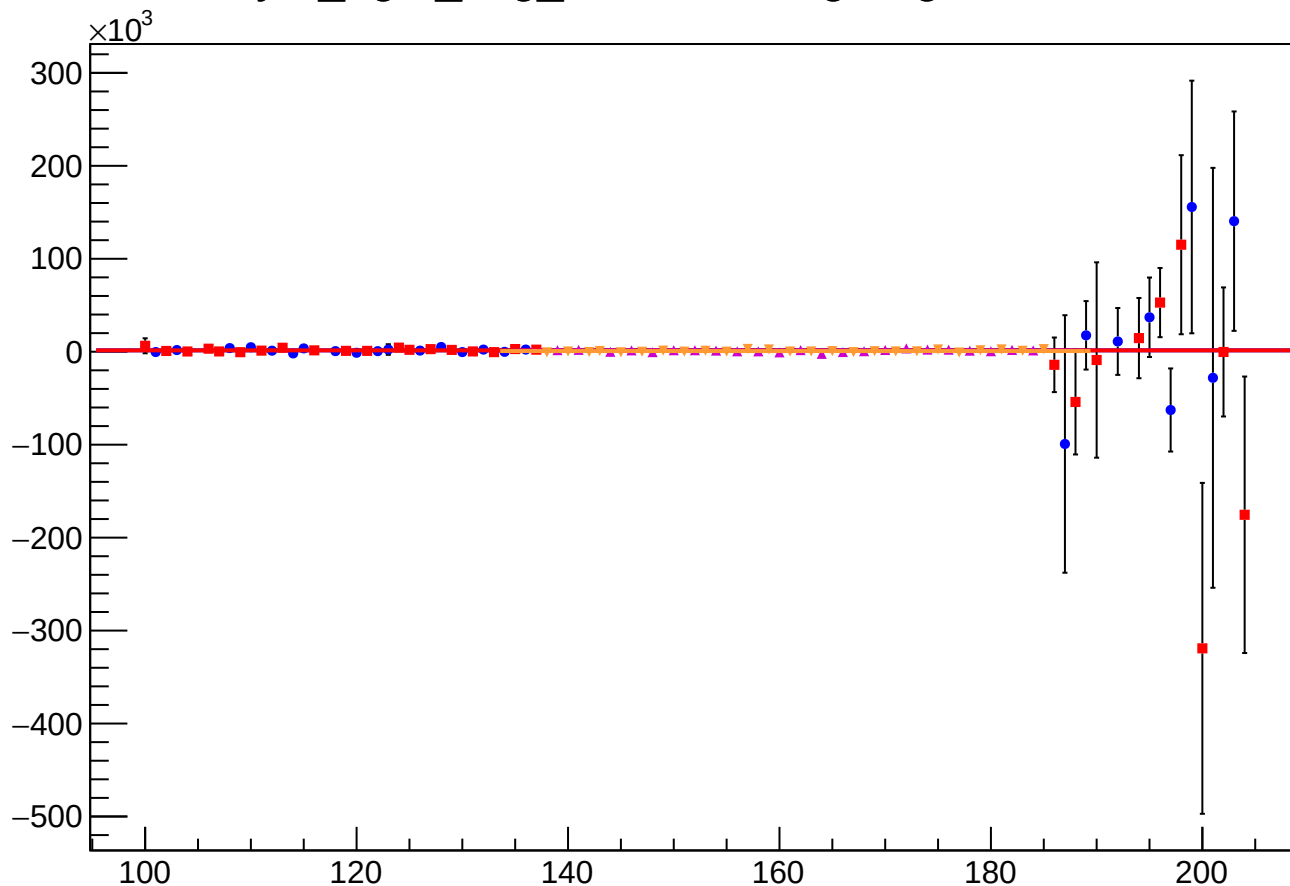
Right: 923.737+/-0.158 χ^2/NDF : 4214596.6/53

In: 789.044+/-0.112 χ^2/NDF : 3261710.7/47

Out: 810.118+/-0.111 χ^2/NDF : 3442026.1/53

All: 799.700+/-0.079 χ^2/NDF : 6721600.1/103

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.068 $\pm$ 402.577 χ^2/NDF : 23.3/24

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

Right Out: 1487.999 $\pm$ 400.615 χ^2/NDF : 21.3/27

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

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

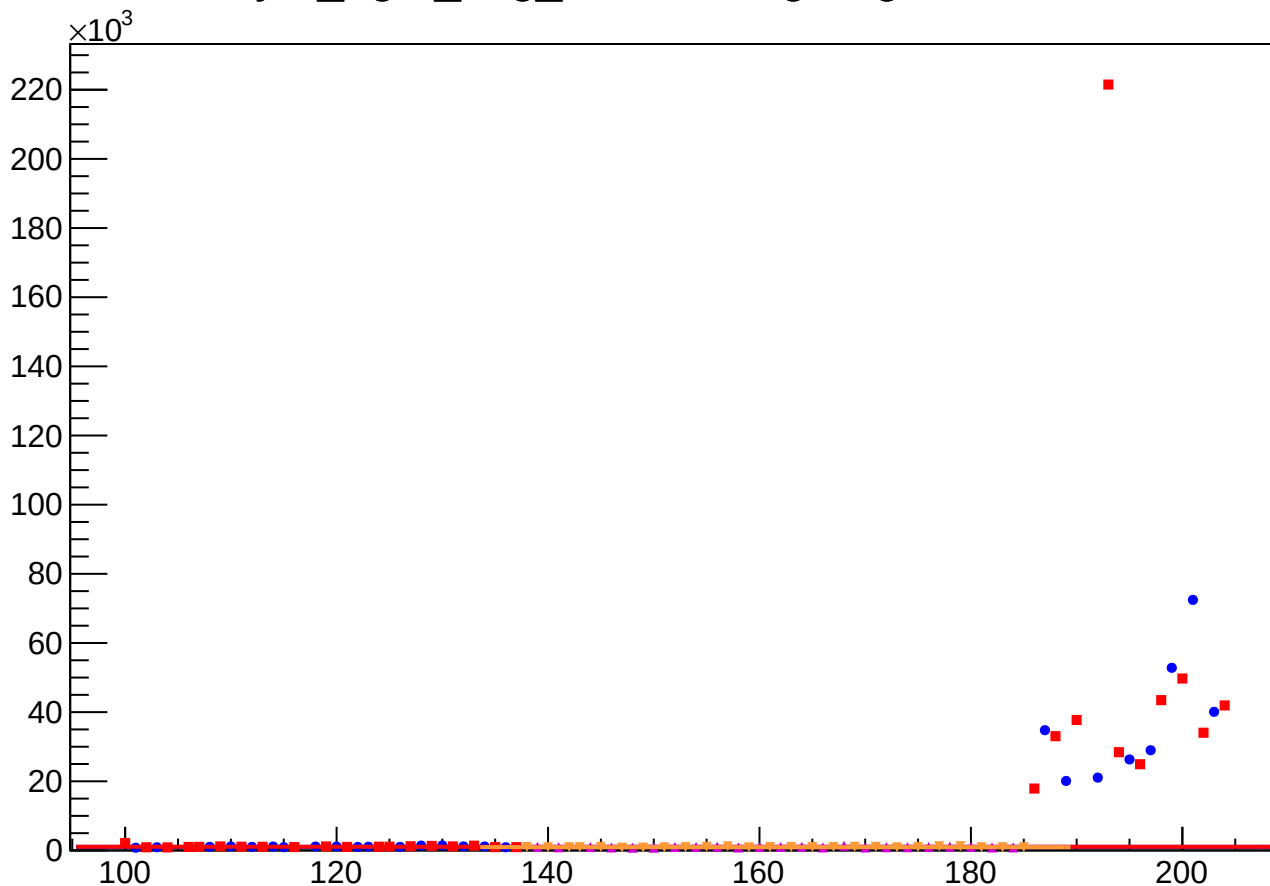
Right: 1494.501 $\pm$ 283.969 χ^2/NDF : 44.7/52

In: 1217.272 $\pm$ 199.748 χ^2/NDF : 49.4/47

Out: 919.743 $\pm$ 196.531 χ^2/NDF : 45.5/52

All: 1066.093 $\pm$ 140.092 χ^2/NDF : 96.0/100

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1032.920+/-0.285 χ^2/NDF : 3912738.9/24

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

Right Out: 1070.926+/-0.283 χ^2/NDF : 4746545.7/28

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

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

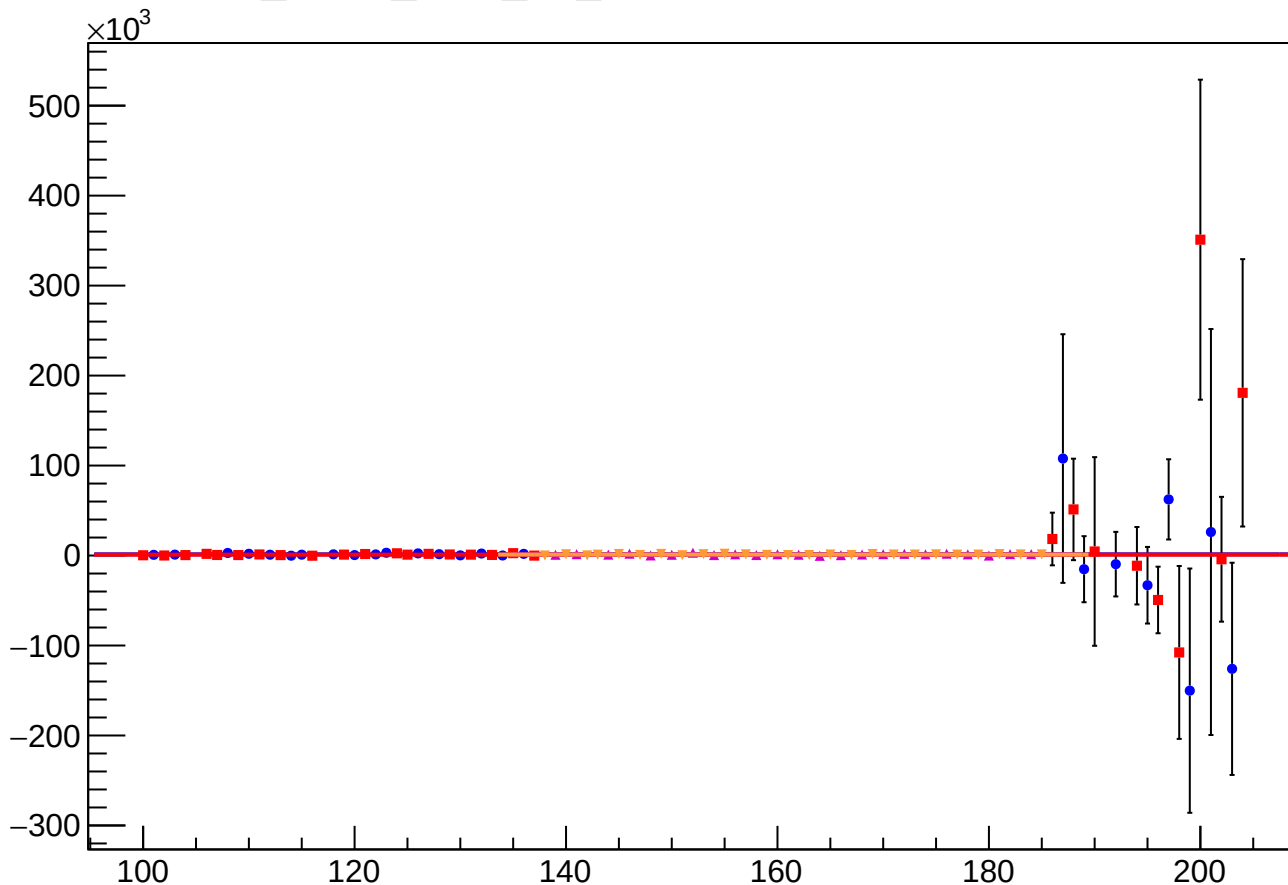
Right: 1052.016+/-0.201 χ^2/NDF : 8668240.7/53

In: 973.914+/-0.141 χ^2/NDF : 4413132.6/47

Out: 988.409+/-0.139 χ^2/NDF : 5221230.8/53

All: 981.279+/-0.099 χ^2/NDF : 9639714.4/102

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.428 $\pm$ 218.840 χ^2 /NDF: 17.8/24

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

Right Out: 965.412 $\pm$ 208.599 χ^2 /NDF: 21.9/27

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

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

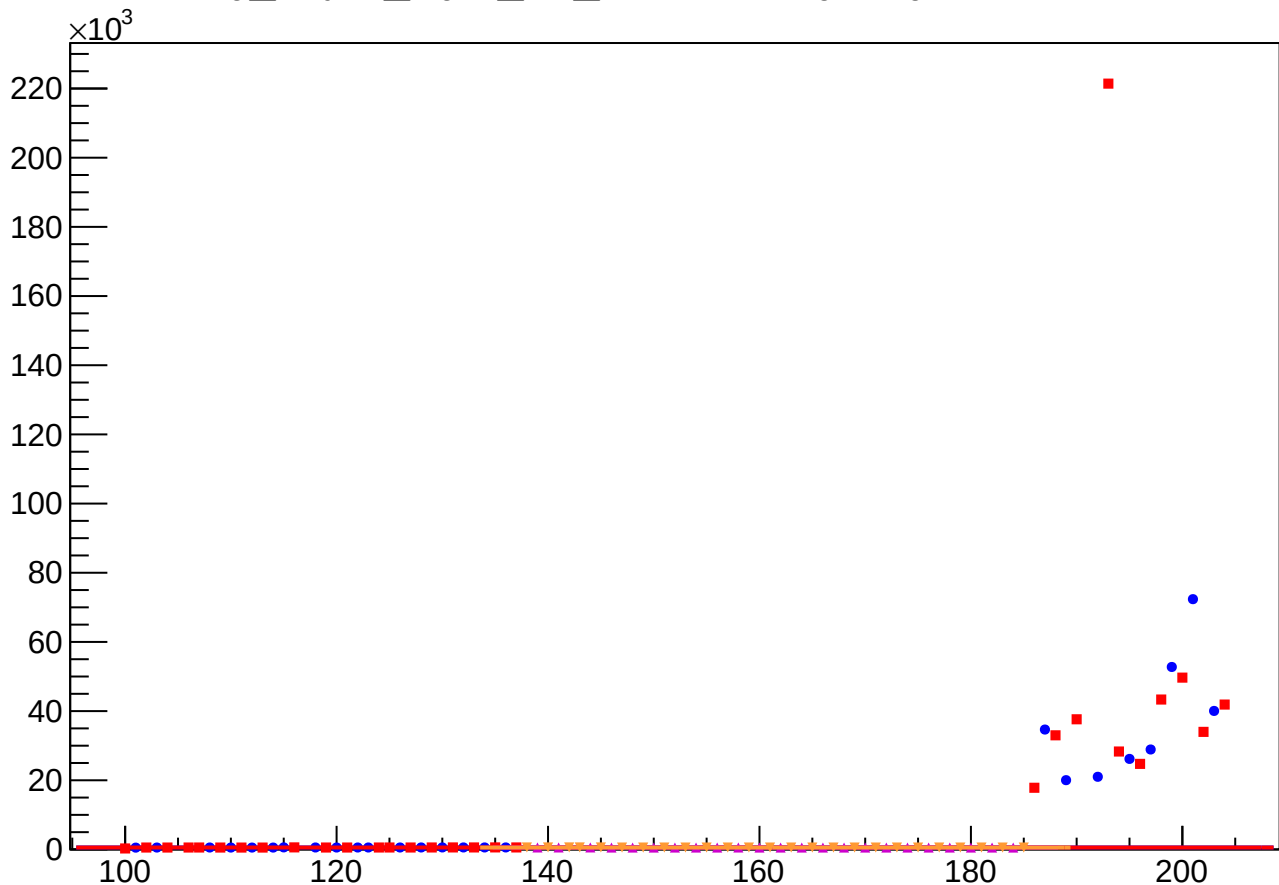
Right: 1145.845 $\pm$ 150.993 χ^2 /NDF: 41.3/52

In: 1231.419 $\pm$ 113.851 χ^2 /NDF:50.4/47

Out: 1053.506 $\pm$ 110.219 χ^2 /NDF:37.1/52

All: 1139.580 $\pm$ 79.190 χ^2 /NDF: 88.7/100

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 567.467 $\pm$ 0.155 χ^2 /NDF: 3711467.2/24

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

Right Out: 558.075 $\pm$ 0.148 χ^2 /NDF: 4807051.5/28

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

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

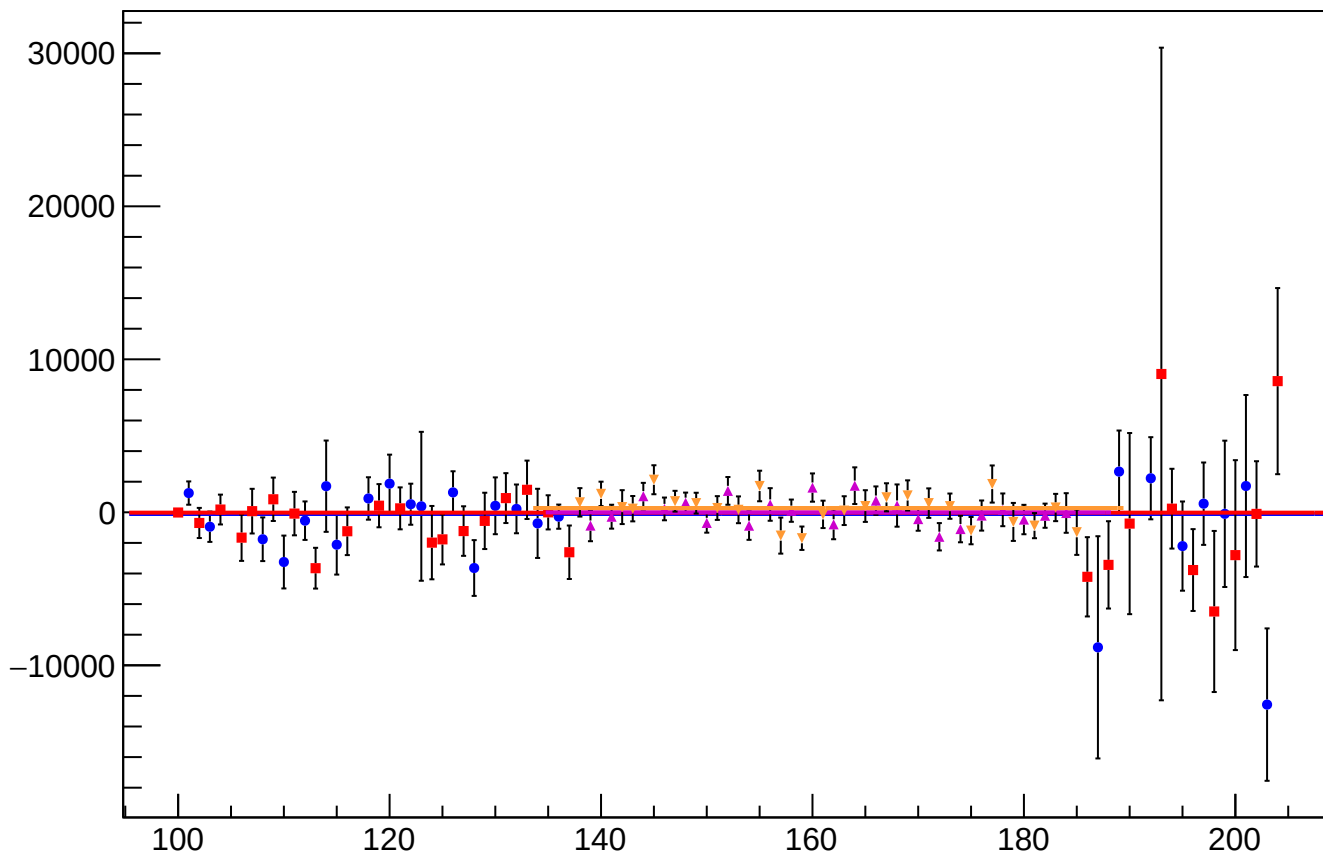
Right: 562.546 $\pm$ 0.107 χ^2 /NDF: 8520449.0/53

In: 560.268 $\pm$ 0.081 χ^2 /NDF: 3725711.7/47

Out: 558.092 $\pm$ 0.078 χ^2 /NDF: 4821836.7/53

All: 559.145 $\pm$ 0.056 χ^2 /NDF: 8547925.5/102

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -109.196 ± 317.202 χ^2/NDF : 27.2/24

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

Right Out: -22.523 ± 38.933 χ^2/NDF : 25.8/28

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

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

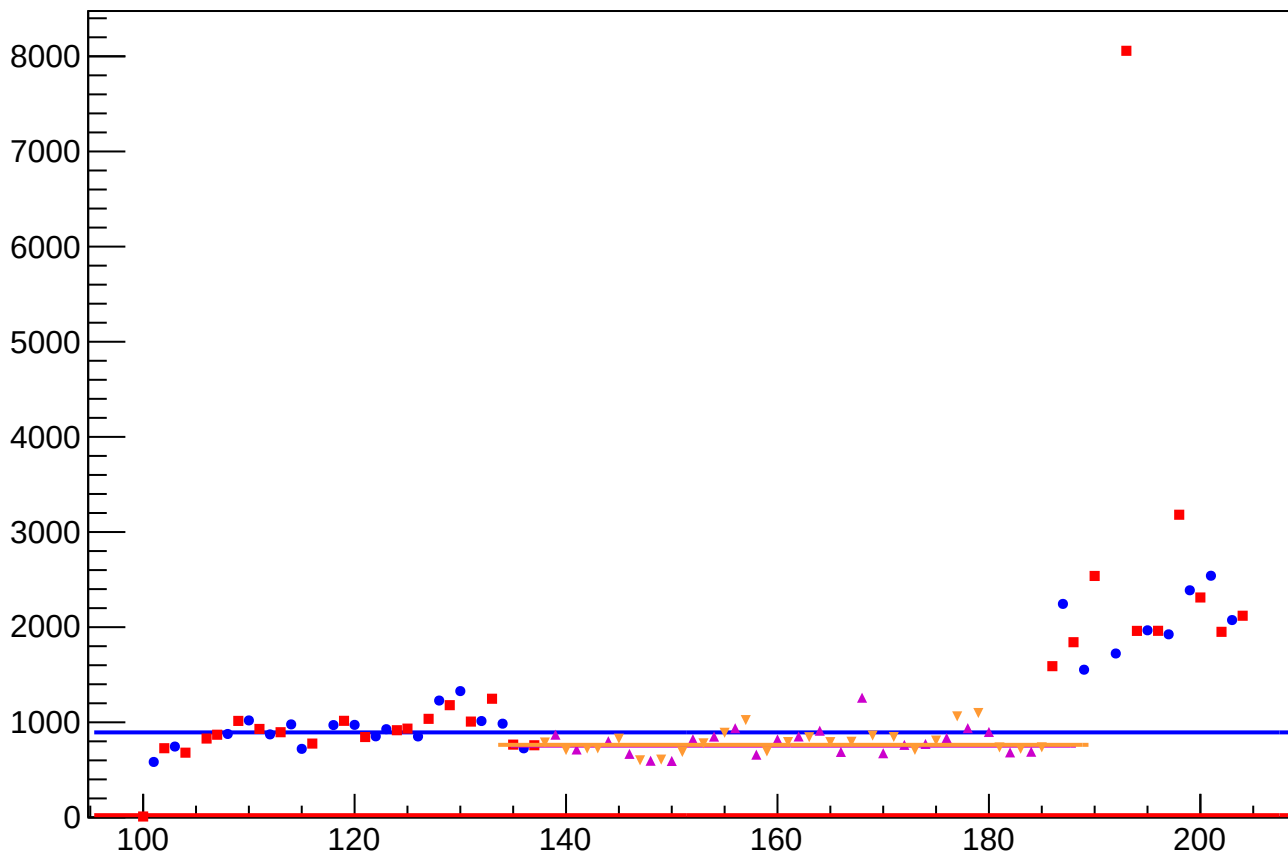
Right: -23.810 ± 38.643 χ^2/NDF : 53.1/53

In: -32.849 ± 158.819 χ^2/NDF : 47.4/47

Out: -9.009 ± 38.057 χ^2/NDF : 55.3/53

All: -10.304 ± 37.009 χ^2/NDF : 102.8/101

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 894.078+/-0.224 χ^2/NDF : 2105933.6/24

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

Right Out: 24.039+/-0.028 χ^2/NDF : 19683170.7/28

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

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

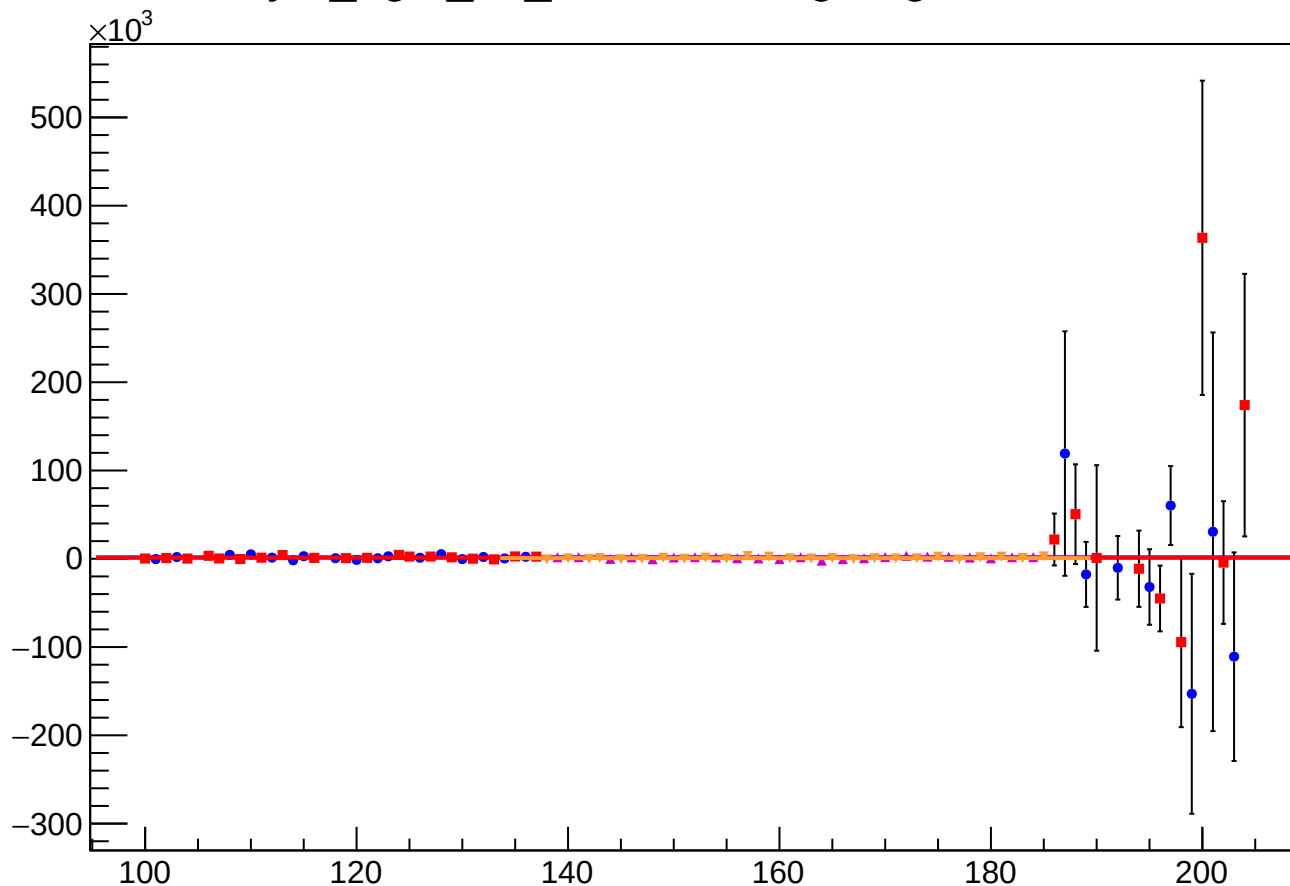
Right: 36.951+/-0.027 χ^2/NDF : 36612378.1/53

In: 789.478+/-0.112 χ^2/NDF : 3327713.0/47

Out: 56.911+/-0.027 χ^2/NDF : 52501878.8/53

All: 96.691+/-0.026 χ^2/NDF : 96070768.0/101

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.943 $\pm$ 402.800 χ^2 /NDF: 23.5/24

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

Right Out: 1288.513 $\pm$ 376.593 χ^2 /NDF: 21.7/27

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

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

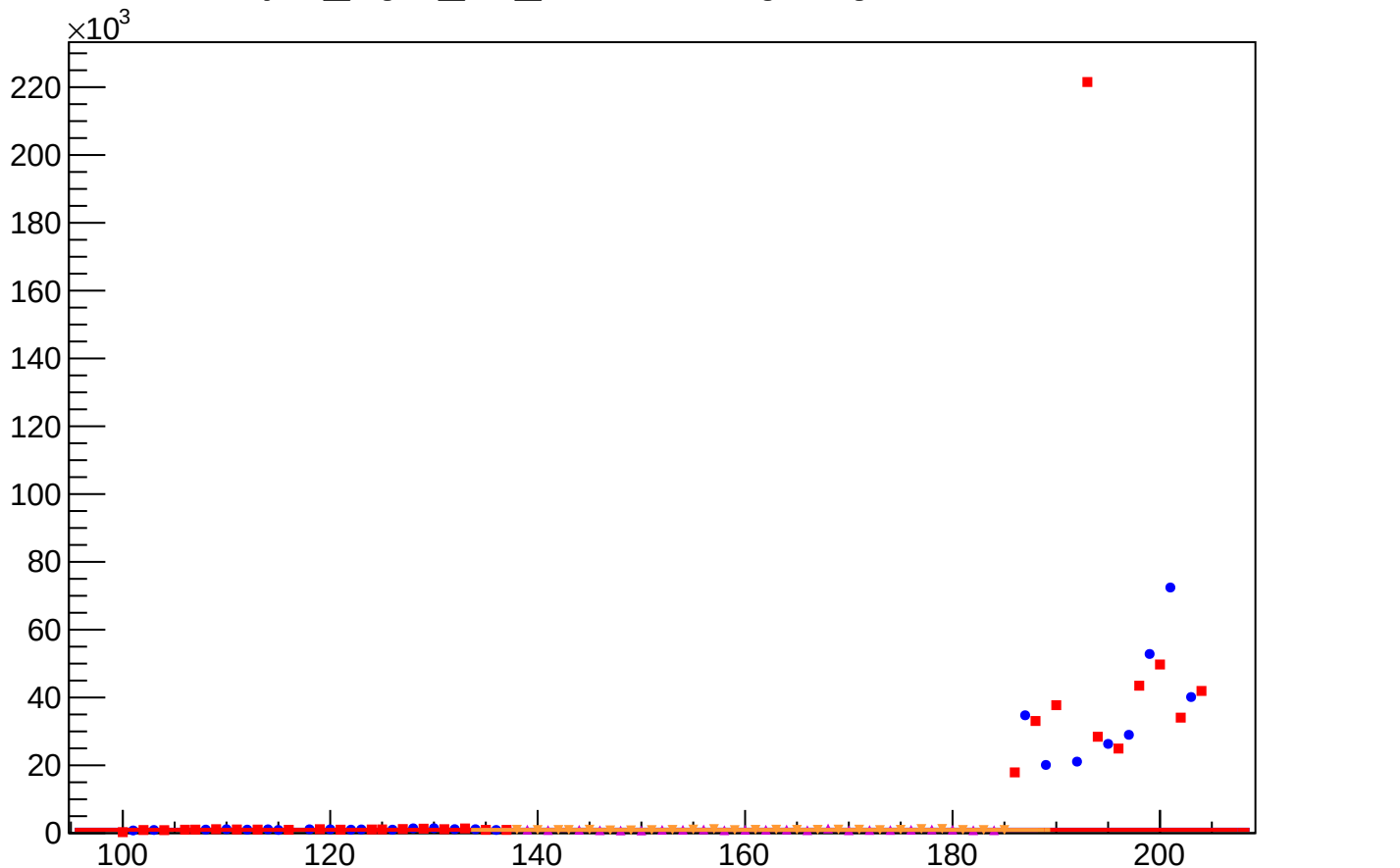
Right: 1394.589 $\pm$ 275.090 χ^2 /NDF: 45.3/52

In: 1259.927 $\pm$ 199.882 χ^2 /NDF: 48.2/47

Out: 886.991 $\pm$ 193.568 χ^2 /NDF: 43.5/52

All: 1067.475 $\pm$ 139.052 χ^2 /NDF: 93.5/100

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1033.499+/-0.285 χ^2/NDF : 3913052.7/24

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

Right Out: 975.697+/-0.266 χ^2/NDF : 5613462.6/28

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

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

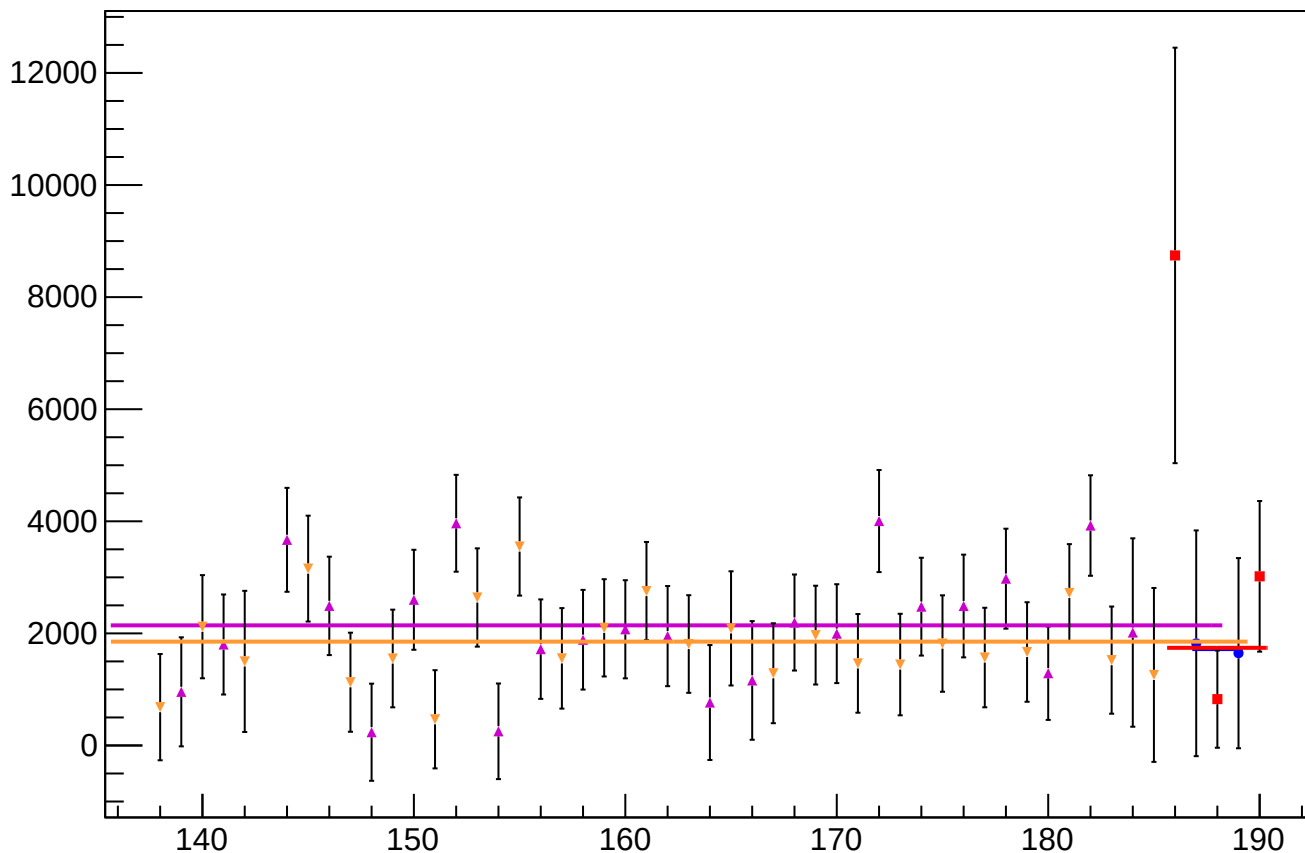
Right: 1002.657+/-0.195 χ^2/NDF : 9548491.0/53

In: 974.579+/-0.141 χ^2/NDF : 4412895.0/47

Out: 966.190+/-0.137 χ^2/NDF : 5978032.8/53

All: 970.250+/-0.098 χ^2/NDF : 10392745.9/100

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1852.926 $\pm$ 187.412 χ^2 /NDF:15.0/23

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

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

Left: 1995.990 $\pm$ 133.476 χ^2 /NDF: 48.5/46

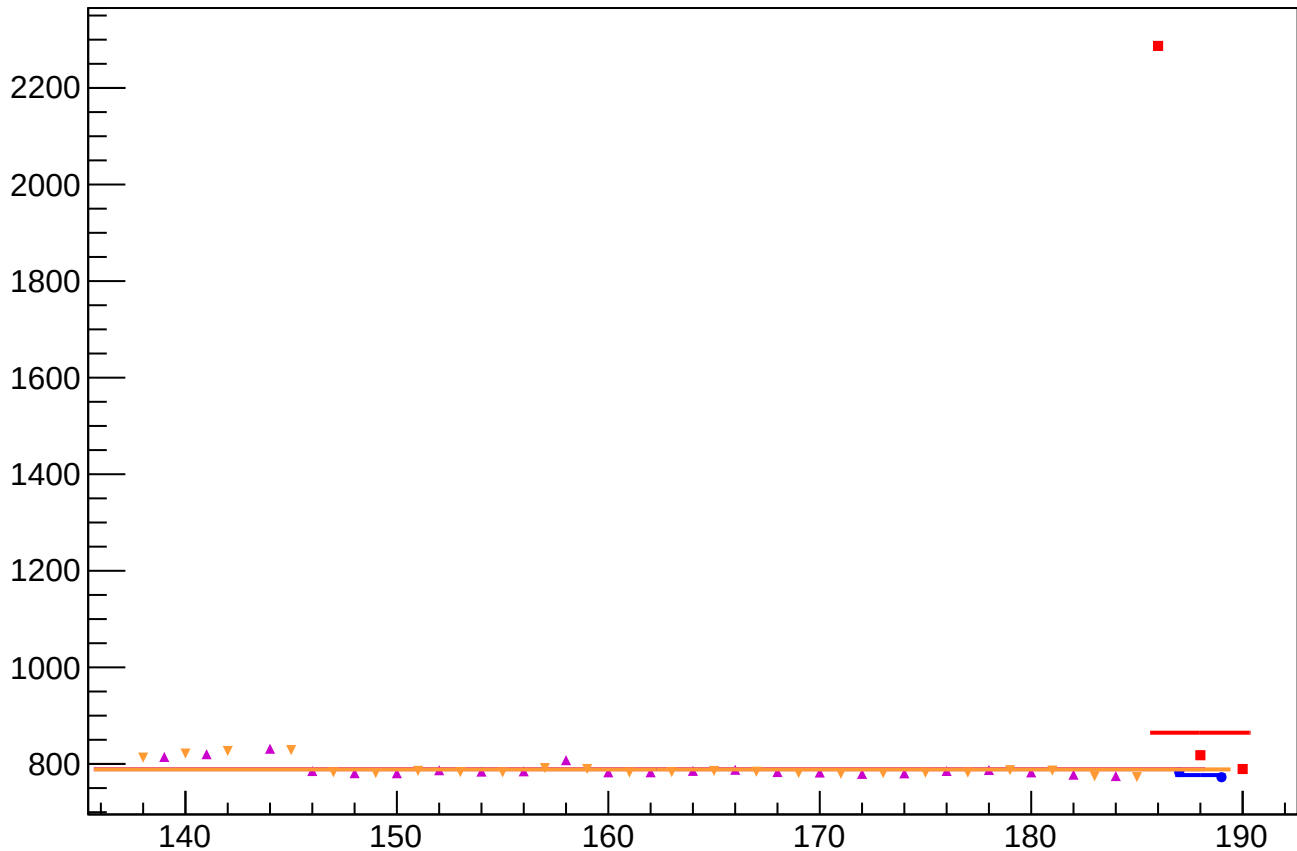
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

Out: 1845.825 $\pm$ 181.293 χ^2 /NDF:20.6/26

All: 1984.750 $\pm$ 130.545 χ^2 /NDF: 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

Left Out: 788.658+/-0.133 χ^2/NDF : 11499.7/23

Right Out: 864.658+/-0.506 χ^2/NDF : 306489.7/2

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

Left: 788.914+/-0.094 χ^2/NDF : 22367.7/46

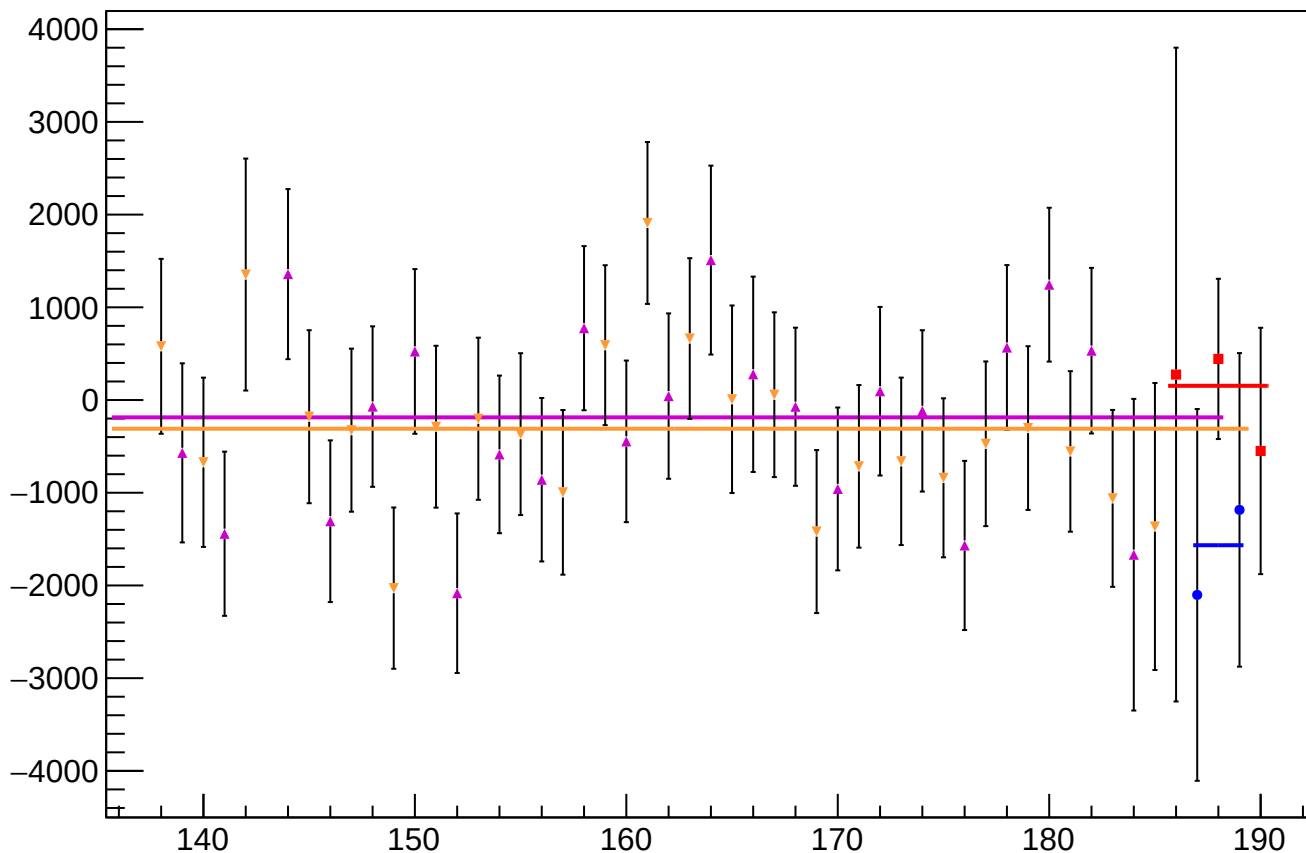
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

In: 788.918+/-0.133 χ^2/NDF : 11068.4/24

Out: 793.541+/-0.128 χ^2/NDF : 339118.2/26

All: 791.315+/-0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -309.656 $\pm$ 186.542 χ^2 /NDF:20.0/23

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

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

Left: -249.268 $\pm$ 132.858 χ^2 /NDF: 45.8/46

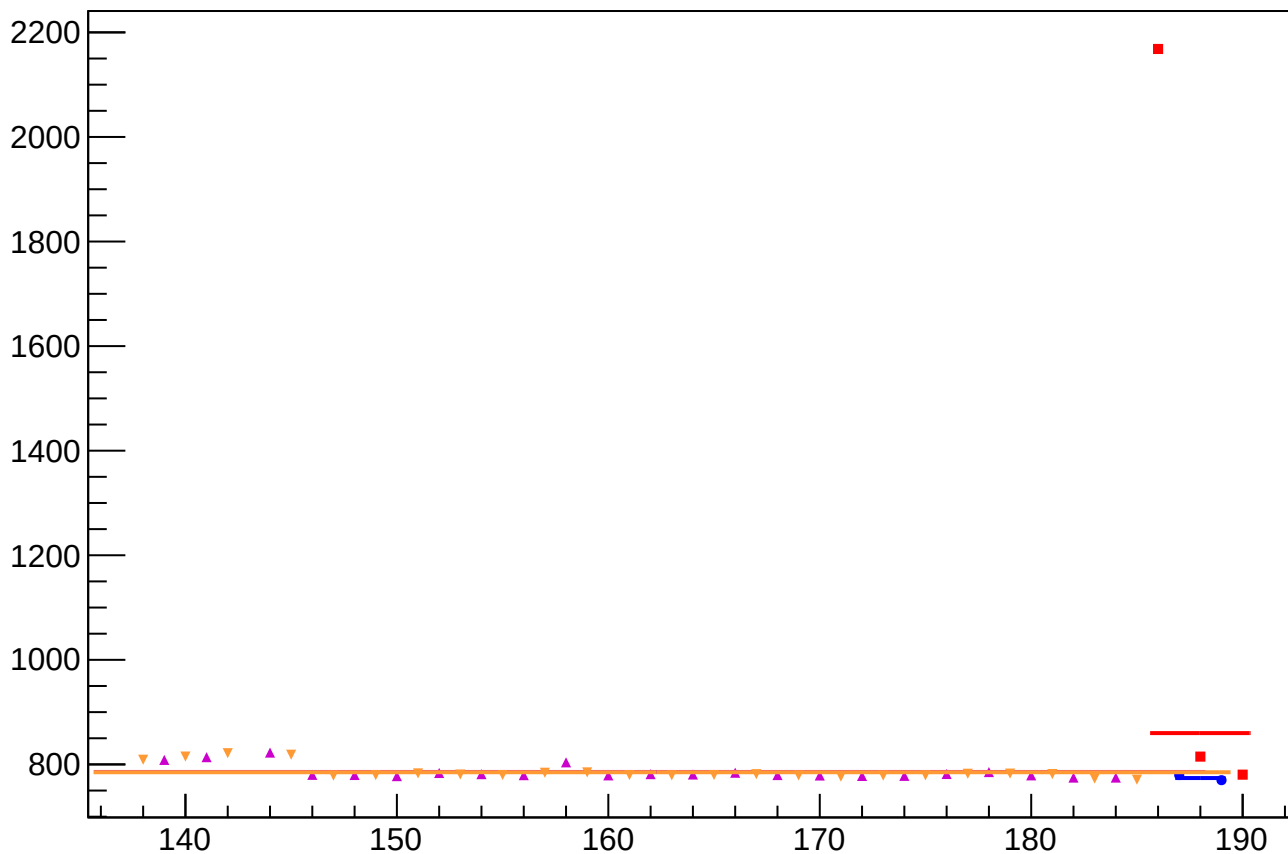
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

Out: -279.729 $\pm$ 180.413 χ^2 /NDF:20.8/26

All: -249.074 $\pm$ 129.927 χ^2 /NDF: 47.6/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

Left Out: 785.050 ± 0.132 χ^2/NDF : 9365.3/23

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

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

Left: 785.302 ± 0.094 χ^2/NDF : 18405.7/46

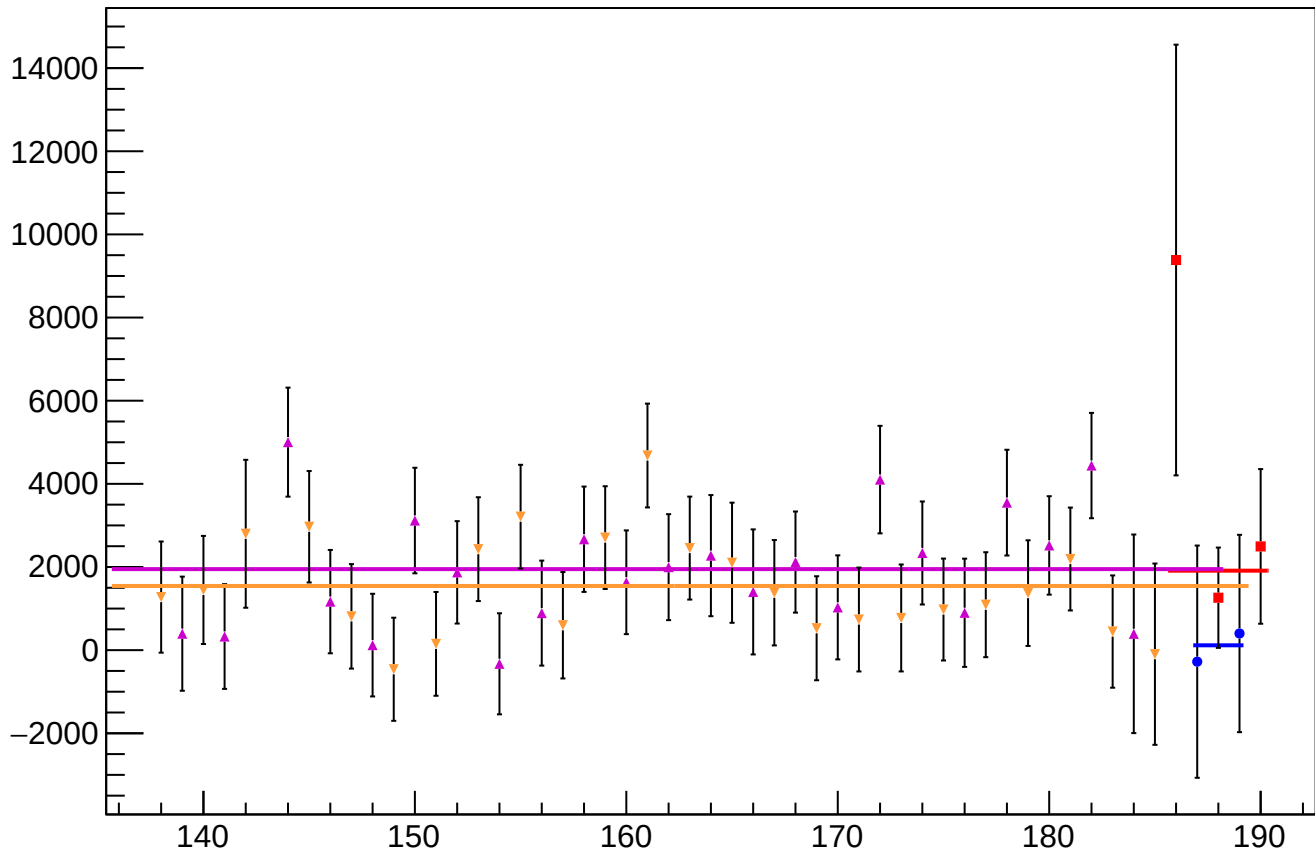
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

Out: 789.888 ± 0.128 χ^2/NDF : 318126.2/26

All: 787.688 ± 0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



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

Left Out: 1543.729 $\pm$ 266.278 χ^2 /NDF:19.9/23

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

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

Left: 1743.530 $\pm$ 189.617 χ^2 /NDF: 47.8/46

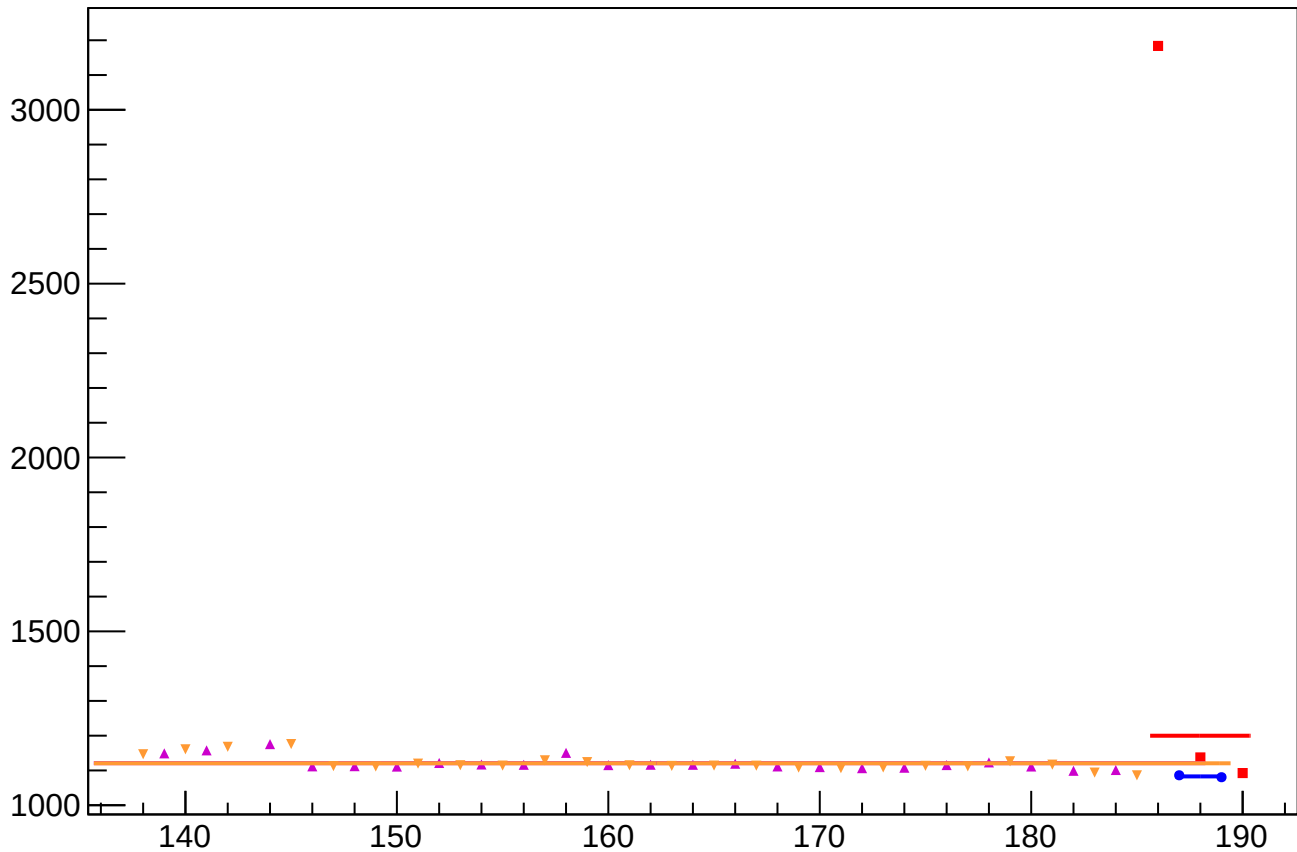
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

Out: 1568.402 $\pm$ 257.196 χ^2 /NDF:22.5/26

All: 1732.308 $\pm$ 185.274 χ^2 /NDF: 51.2/51

cor_asym_usl_rms vs Slug, Sign Corrected



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

Left Out: 1120.578+/-0.188 χ^2/NDF : 10264.0/23

Right Out: 1199.844+/-0.702 χ^2/NDF : 305356.1/2

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

Left: 1120.775+/-0.134 χ^2/NDF : 19525.9/46

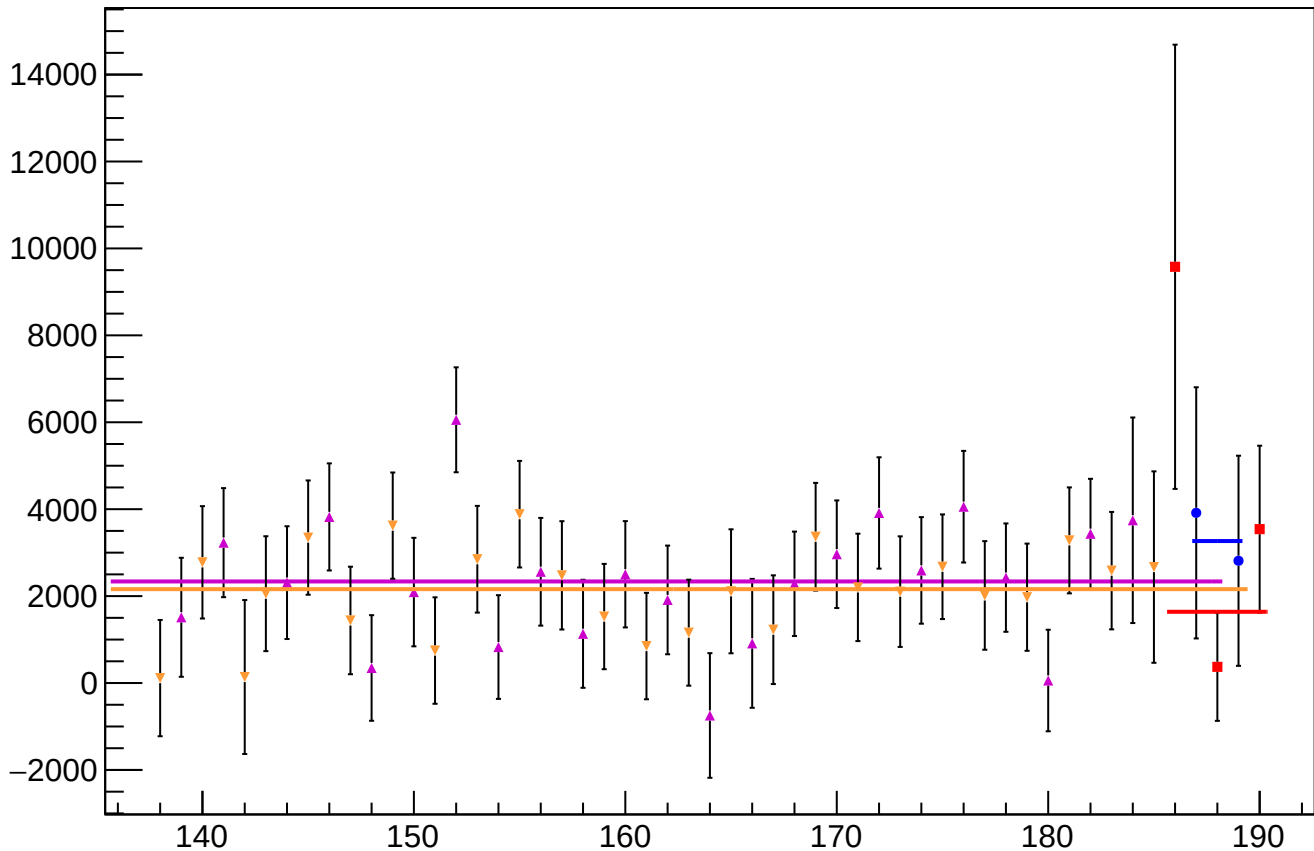
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

In: 1120.146+/-0.189 χ^2/NDF : 10132.9/24

Out: 1125.893+/-0.182 χ^2/NDF : 327503.8/26

All: 1123.129+/-0.131 χ^2/NDF : 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

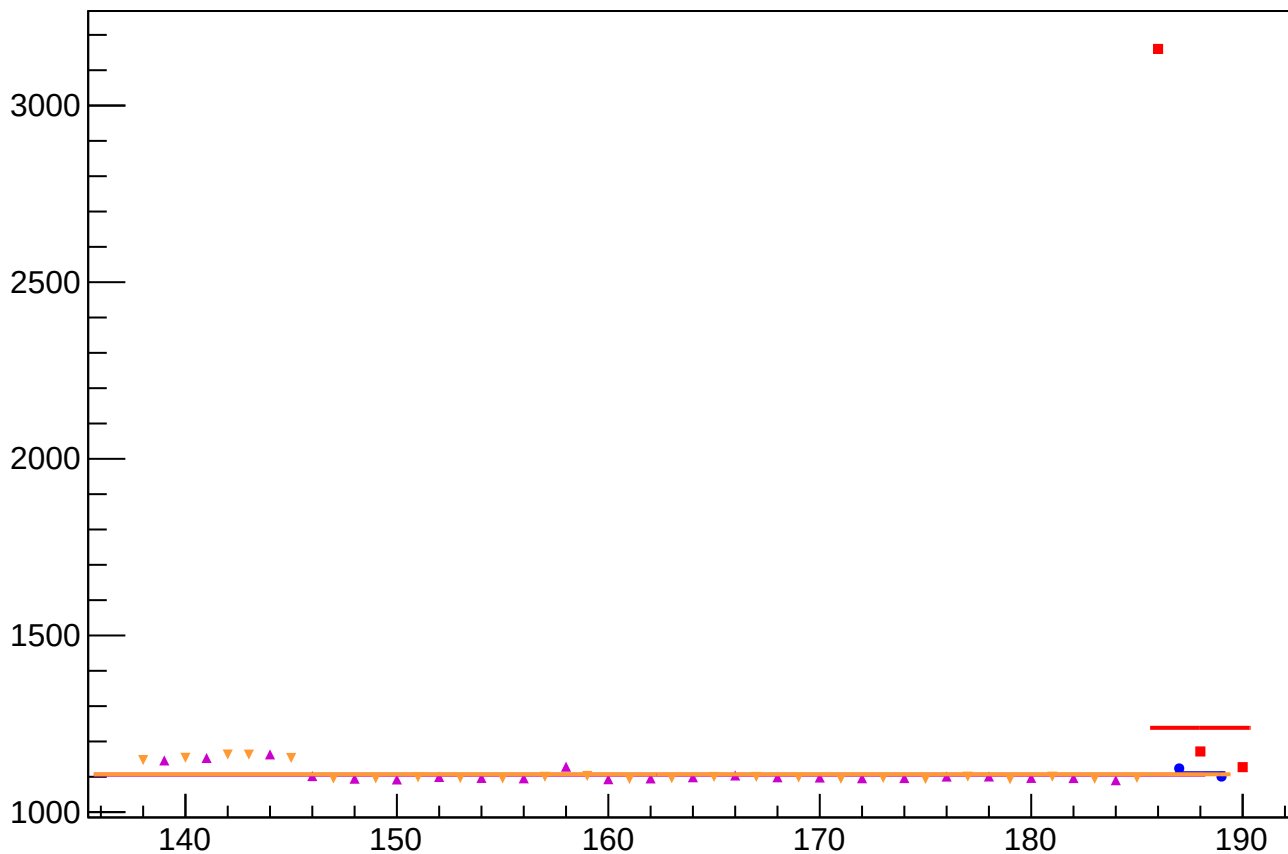
Right: 2018.696 $\pm$ 895.144 χ^2/NDF : 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

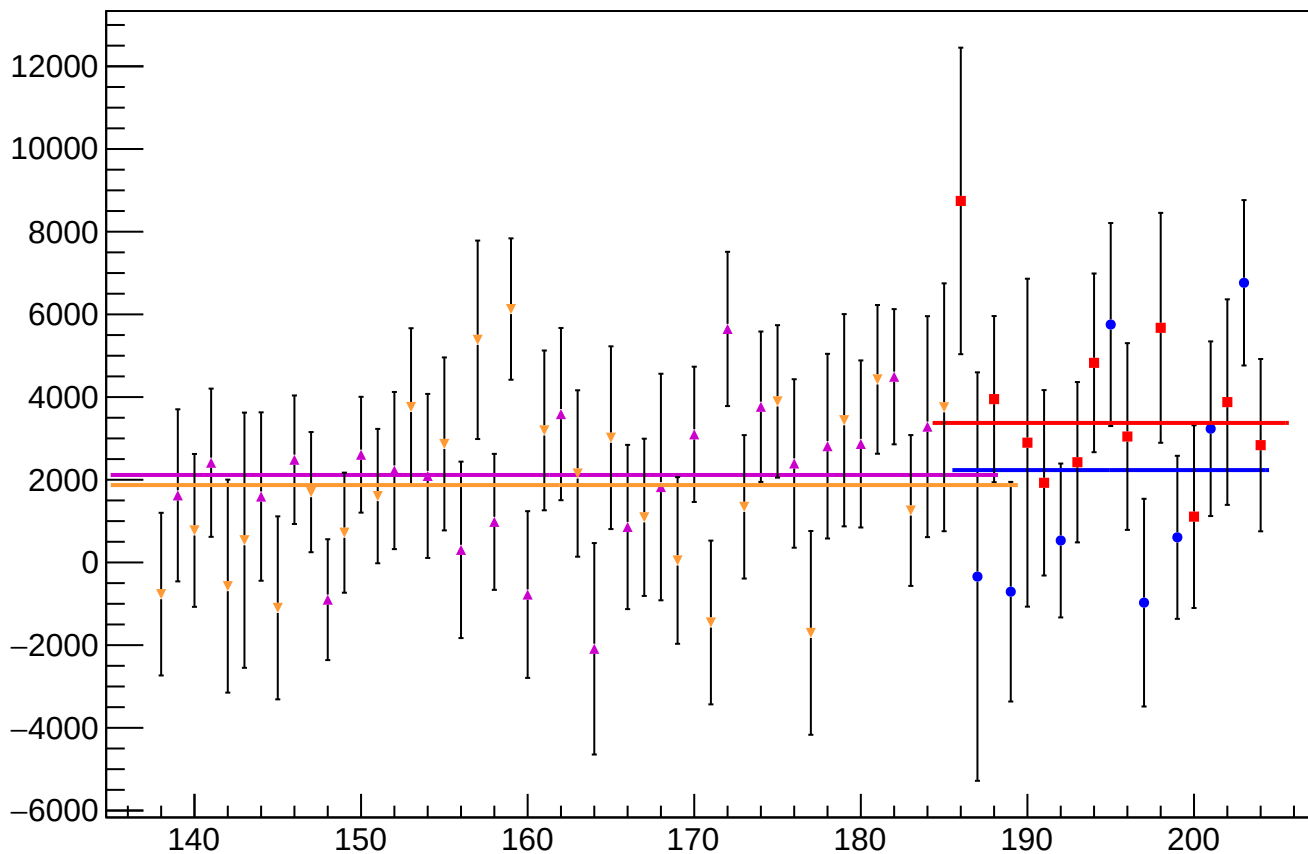
Right: 1208.687+/-0.633 χ^2 /NDF: 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2234.044 $\pm$ 809.218 χ^2 /NDF: 12.1/7

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

Right Out: 3374.768 $\pm$ 709.718 χ^2 /NDF: 5.2/10

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

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

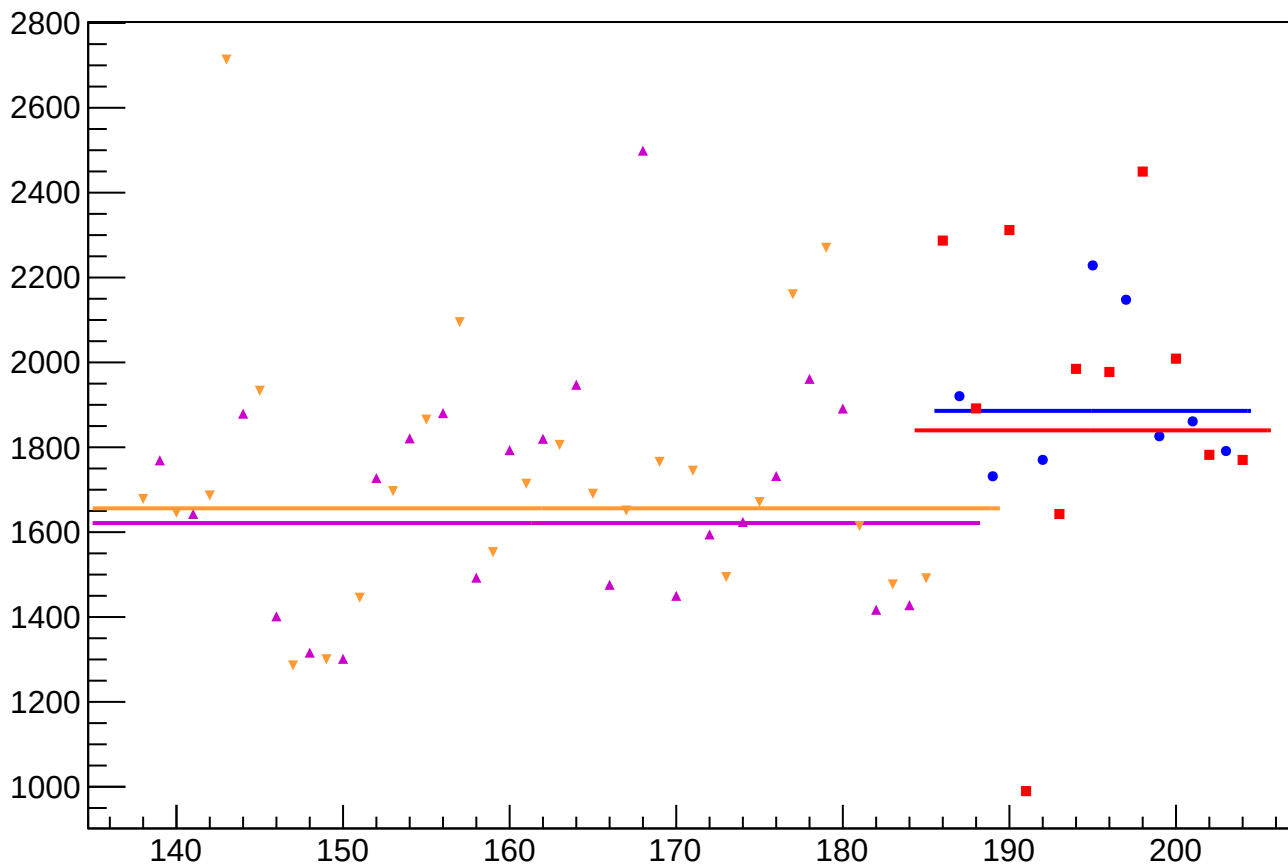
Right: 2878.812 $\pm$ 533.577 χ^2 /NDF: 18.3/18

In: 2138.620 $\pm$ 353.513 χ^2 /NDF:30.9/30

Out: 2222.572 $\pm$ 342.926 χ^2 /NDF:34.7/35

All: 2181.872 $\pm$ 246.143 χ^2 /NDF: 65.6/66

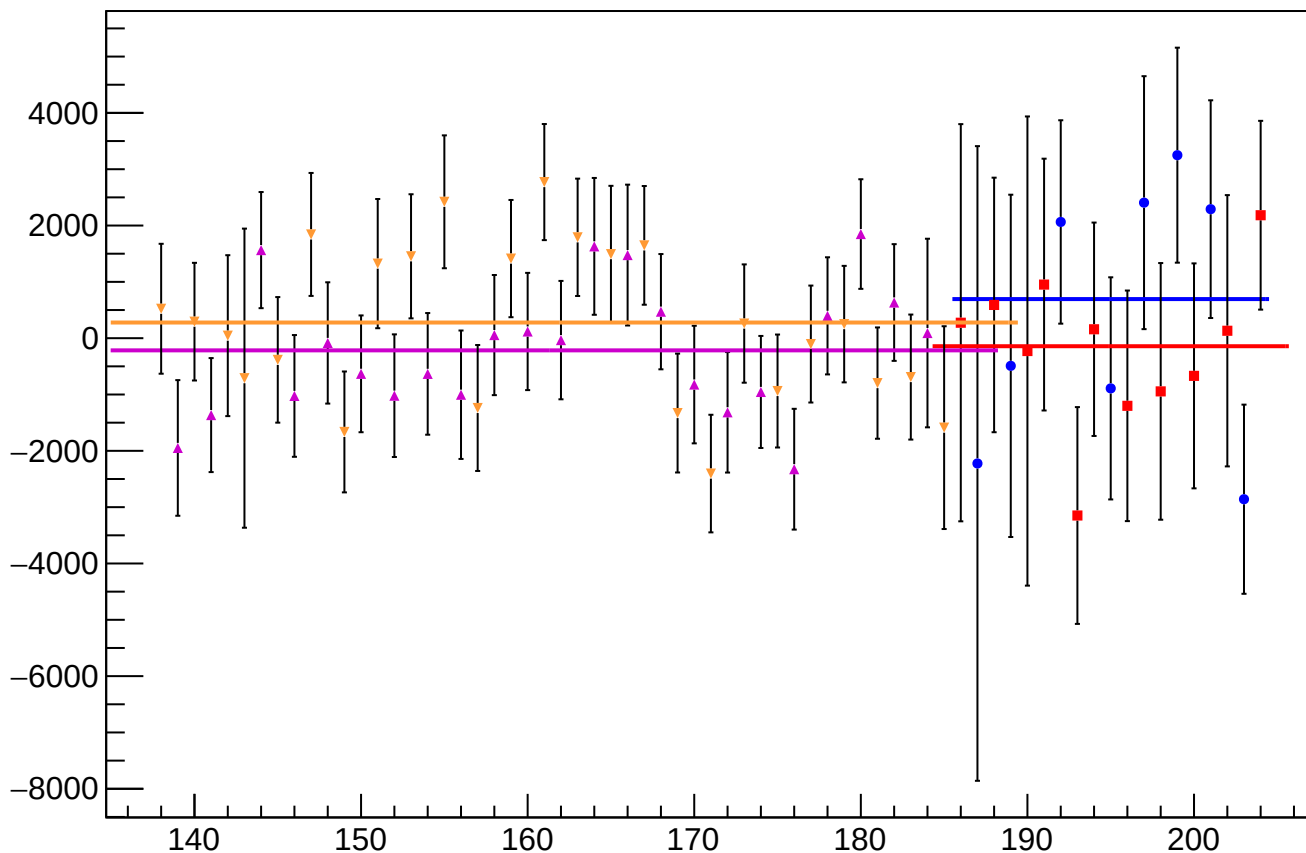
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1885.815 $\pm$ 0.572 χ^2/NDF : 81838.5/7
 Left Out: 1656.119 $\pm$ 0.277 χ^2/NDF : 910573.4/24
 Right Out: 1839.868 $\pm$ 0.502 χ^2/NDF : 494518.7/10
 Left In: 1621.417 $\pm$ 0.278 χ^2/NDF : 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2/NDF : 1693706.9/47
 Right: 1859.844 $\pm$ 0.377 χ^2/NDF : 580001.7/18
 In: 1671.876 $\pm$ 0.250 χ^2/NDF : 1029910.7/30
 Out: 1699.019 $\pm$ 0.242 χ^2/NDF : 1507854.6/35
 All: 1685.860 $\pm$ 0.174 χ^2/NDF : 2543839.8/60

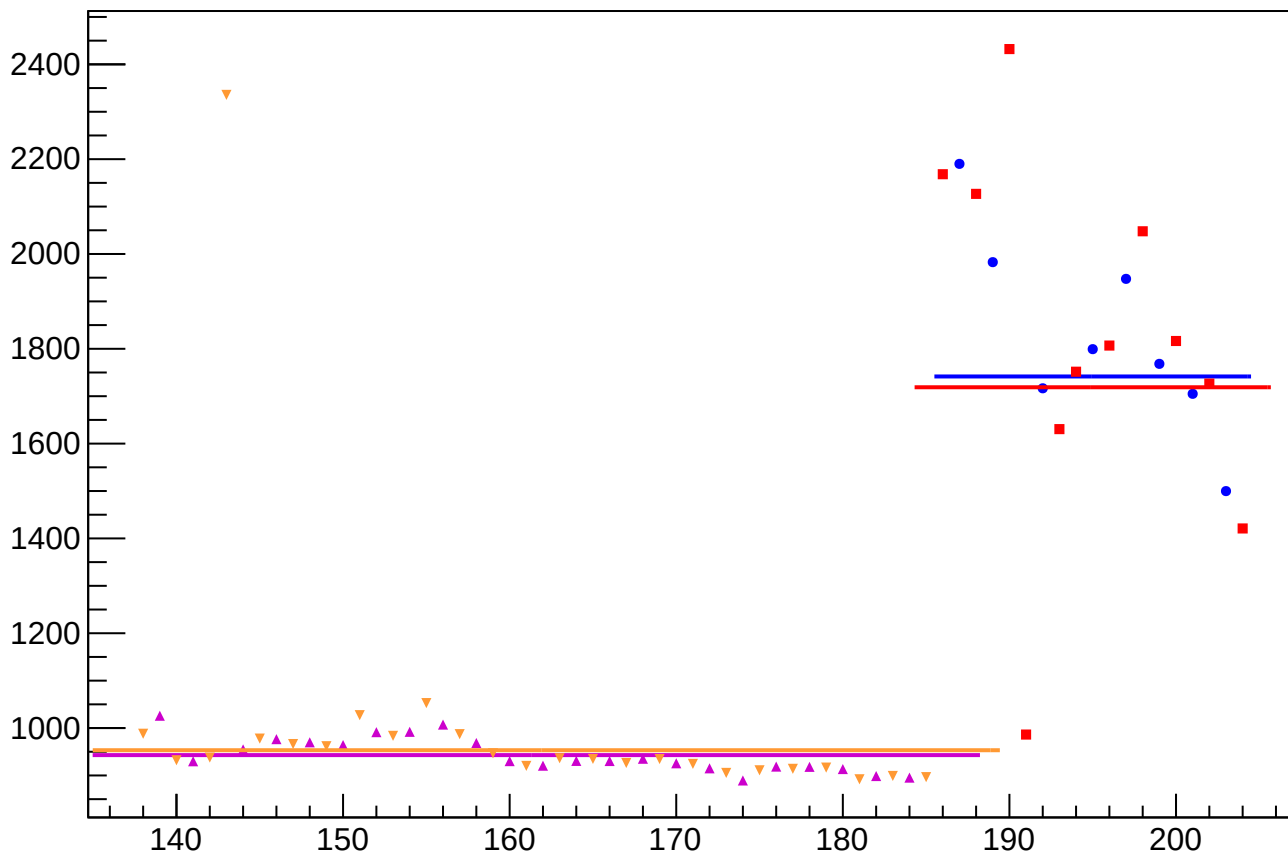
asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 694.408 ± 745.589 $\chi^2/\text{NDF}: 9.2/7$
 Left Out: 278.090 ± 223.581 $\chi^2/\text{NDF}: 38.4/24$
 Right Out: -142.632 ± 660.352 $\chi^2/\text{NDF}: 5.2/10$
 Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 33.207 ± 158.805 $\chi^2/\text{NDF}: 65.2/47$
 Right: 225.327 ± 494.340 $\chi^2/\text{NDF}: 15.1/18$
 In: -139.750 ± 215.932 $\chi^2/\text{NDF}: 35.0/30$
 Out: 234.821 ± 211.772 $\chi^2/\text{NDF}: 44.0/35$
 All: 51.179 ± 151.195 $\chi^2/\text{NDF}: 80.5/66$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1741.629+/-0.527 χ^2/NDF : 86748.2/7

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

Right Out: 1718.853+/-0.467 χ^2/NDF : 489356.0/10

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

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

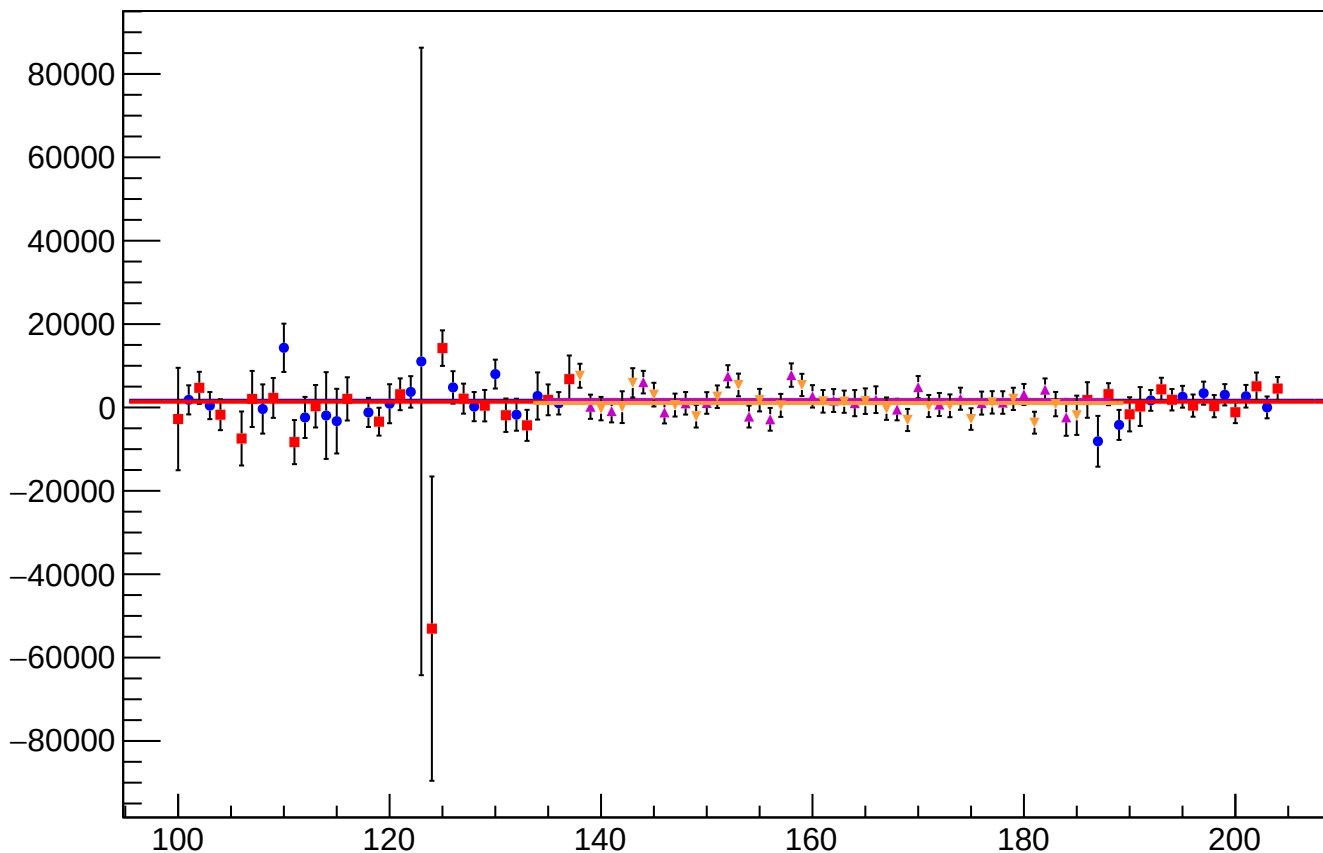
Right: 1728.865+/-0.350 χ^2/NDF : 577150.2/18

In: 1009.918+/-0.153 χ^2/NDF : 2237749.3/30

Out: 1031.963+/-0.150 χ^2/NDF : 3507680.3/35

All: 1021.155+/-0.107 χ^2/NDF : 5756054.8/66

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1614.927+/-716.908 χ^2/NDF : 18.9/24

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

Right Out: 1376.105+/-676.579 χ^2/NDF : 30.5/29

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

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

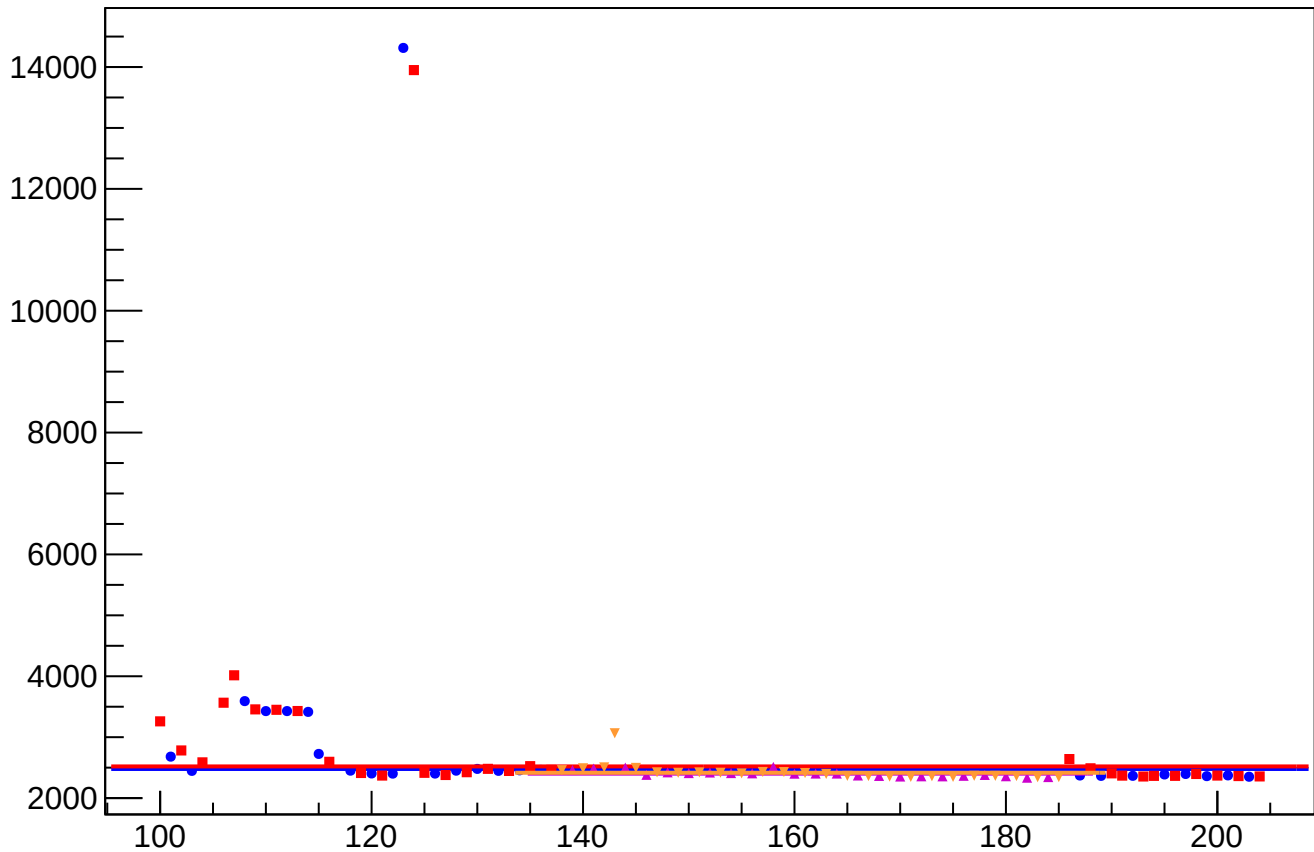
Right: 1488.610+/-492.053 χ^2/NDF : 49.4/54

In: 1713.495+/-448.974 χ^2/NDF : 43.0/47

Out: 1200.255+/-433.221 χ^2/NDF : 54.2/54

All: 1447.713+/-311.754 χ^2/NDF : 97.8/102

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2478.356 $\pm$ 0.507 χ^2 /NDF: 299333.4/24

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

Right Out: 2520.017 $\pm$ 0.478 χ^2 /NDF: 628006.0/29

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

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

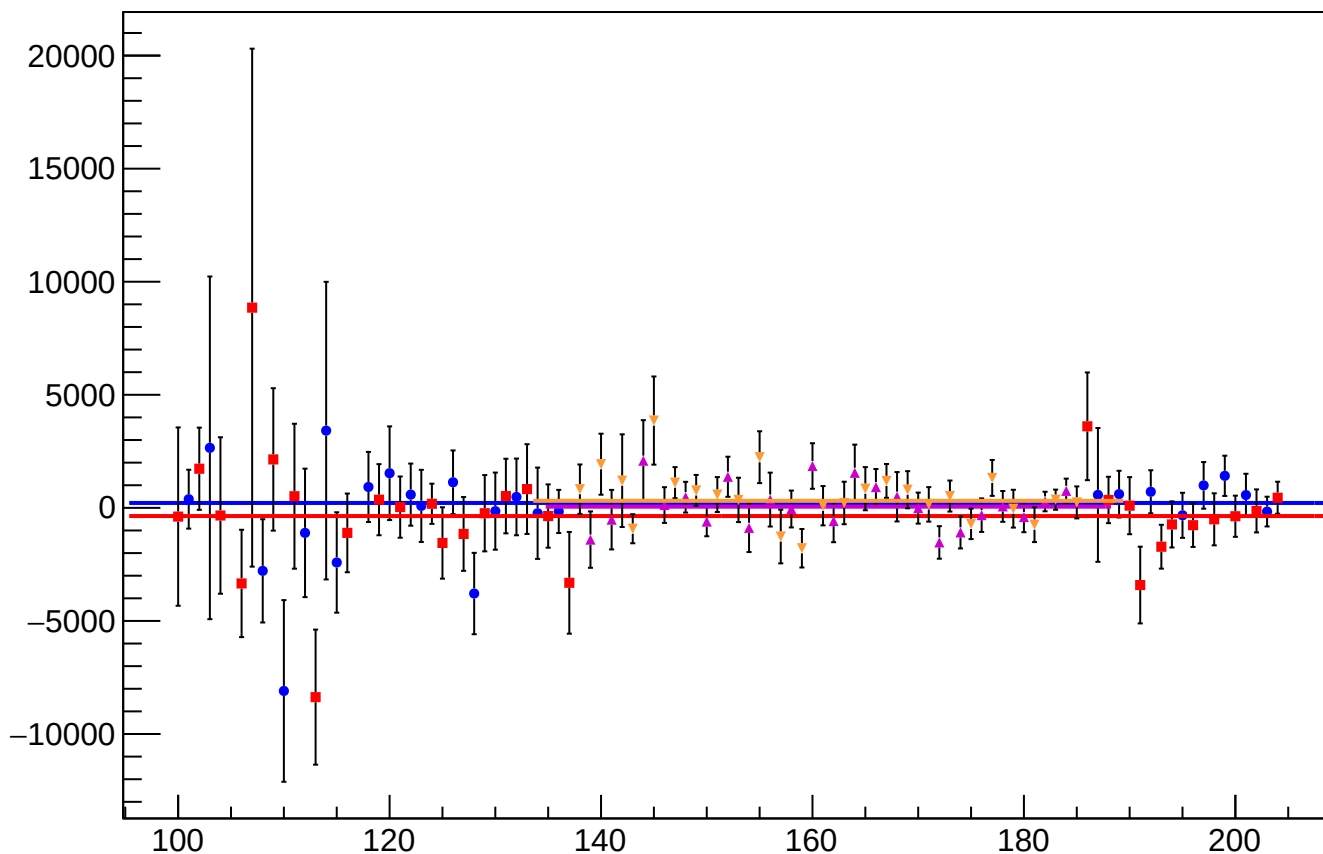
Right: 2500.391 $\pm$ 0.348 χ^2 /NDF: 930911.7/54

In: 2431.596 $\pm$ 0.317 χ^2 /NDF: 327080.0/47

Out: 2458.658 $\pm$ 0.306 χ^2 /NDF: 738522.0/54

All: 2445.610 $\pm$ 0.220 χ^2 /NDF: 1069364.9/100

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 216.821 $\pm$ 263.171 χ^2 /NDF: 17.9/24

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

Right Out: -362.299 $\pm$ 248.312 χ^2 /NDF: 25.7/29

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

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

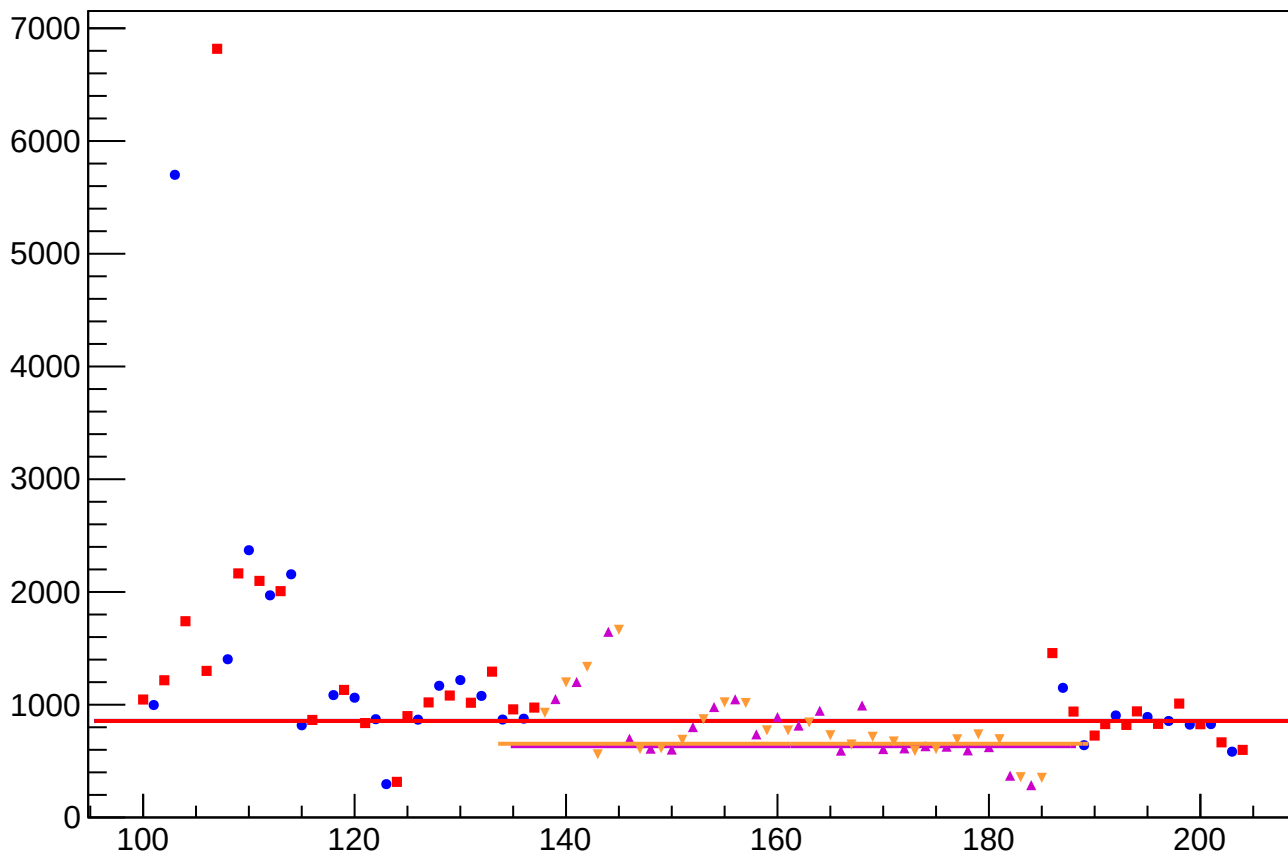
Right: -89.549 $\pm$ 180.608 χ^2 /NDF: 46.2/54

In: 96.792 $\pm$ 137.799 χ^2 /NDF:42.1/47

Out: 112.244 $\pm$ 134.883 χ^2 /NDF:60.7/54

All: 104.683 $\pm$ 96.391 χ^2 /NDF: 102.7/102

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 856.439 $\pm$ 0.186 χ^2 /NDF: 2585036.1/24

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

Right Out: 855.771 $\pm$ 0.176 χ^2 /NDF: 3320872.4/29

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

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

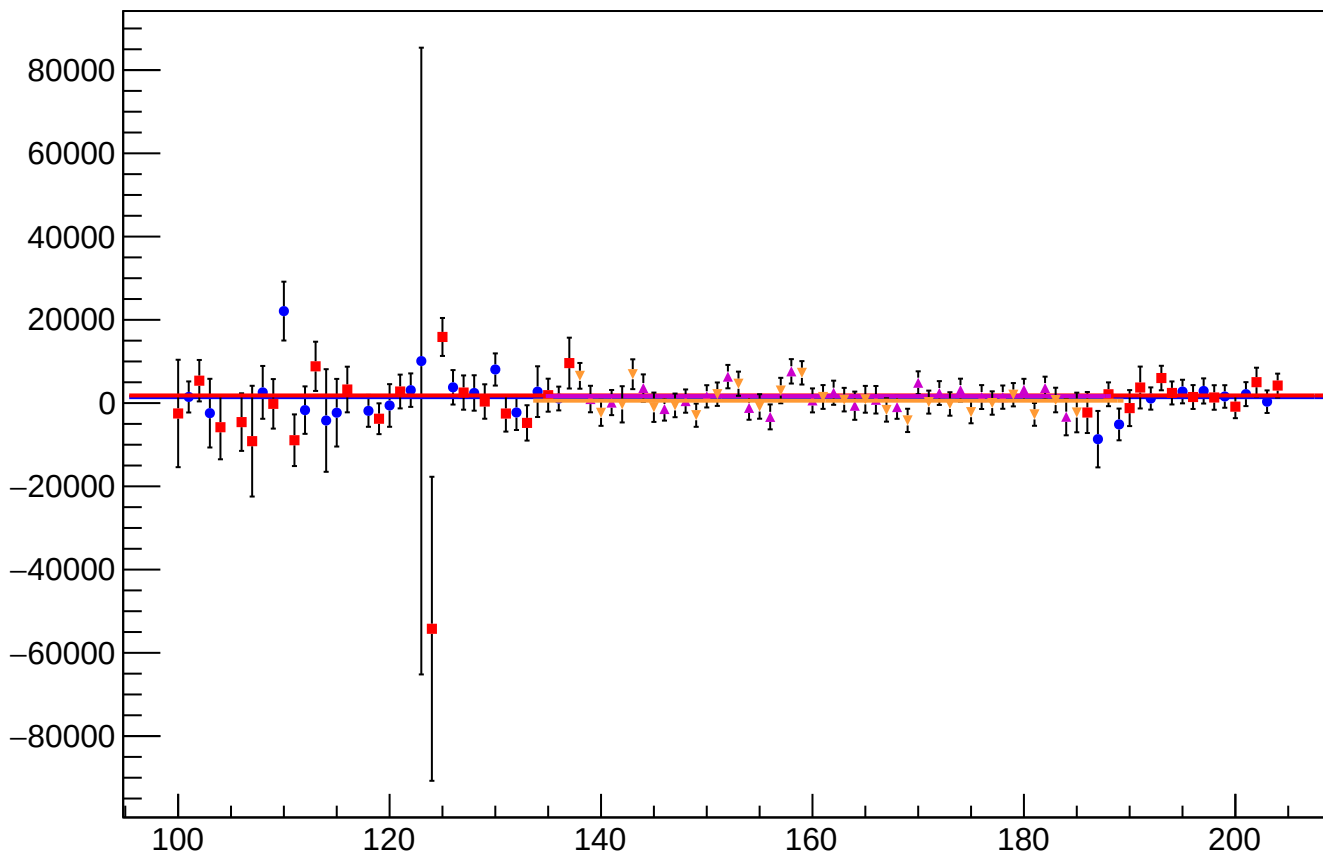
Right: 856.085 $\pm$ 0.128 χ^2 /NDF: 5905915.3/54

In: 693.573 $\pm$ 0.097 χ^2 /NDF: 7583206.3/47

Out: 713.396 $\pm$ 0.095 χ^2 /NDF: 7508282.5/54

All: 703.696 $\pm$ 0.068 χ^2 /NDF: 15112627.0/100

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1430.167+/-791.384 χ^2/NDF : 20.7/24

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

Right Out: 1834.244+/-749.641 χ^2/NDF : 33.0/29

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

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

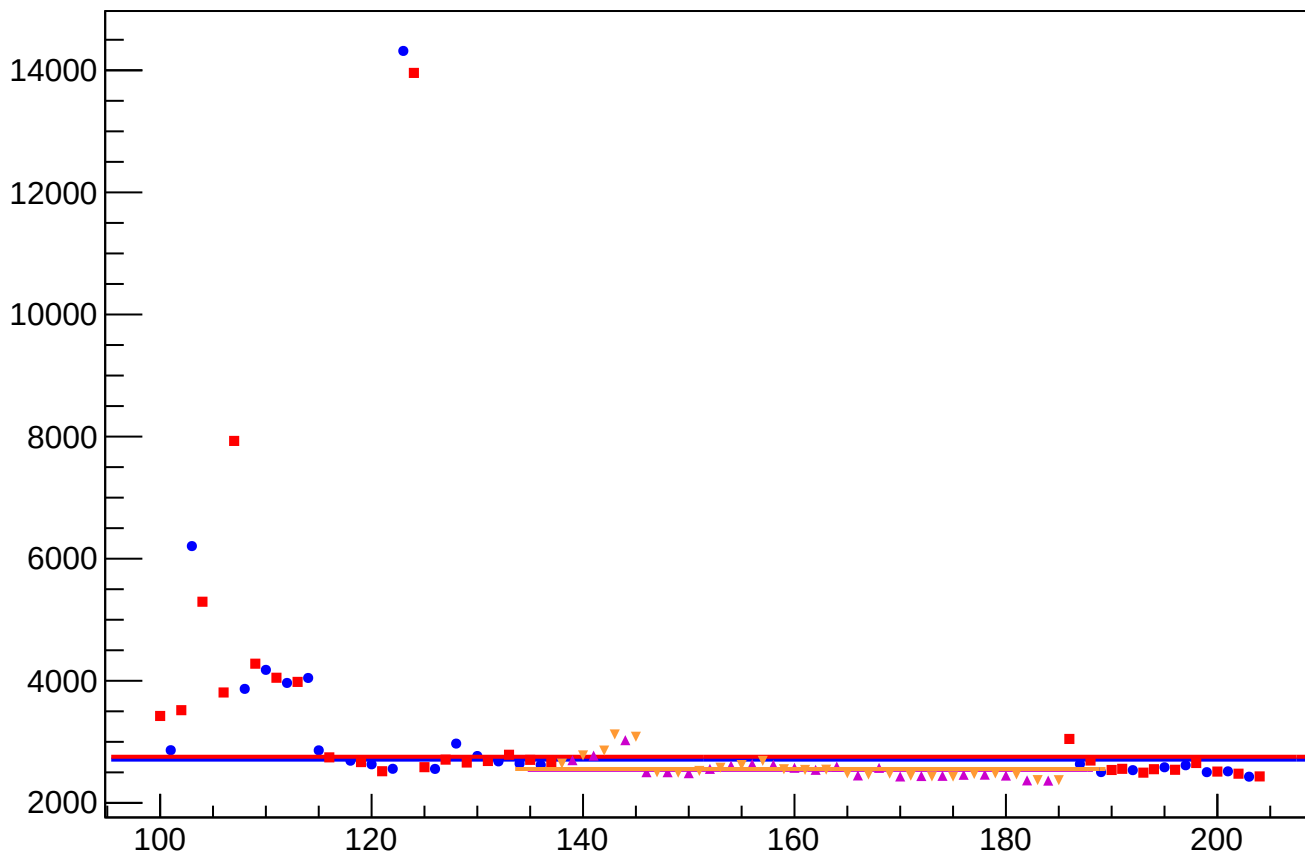
Right: 1643.143+/-544.235 χ^2/NDF : 53.8/54

In: 1586.598+/-483.189 χ^2/NDF : 38.9/47

Out: 1067.468+/-467.085 χ^2/NDF : 60.1/54

All: 1318.238+/-335.828 χ^2/NDF : 99.6/102

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2708.657+/-0.560 χ^2/NDF : 763103.7/24

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

Right Out: 2755.915+/-0.530 χ^2/NDF : 1233693.6/29

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

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

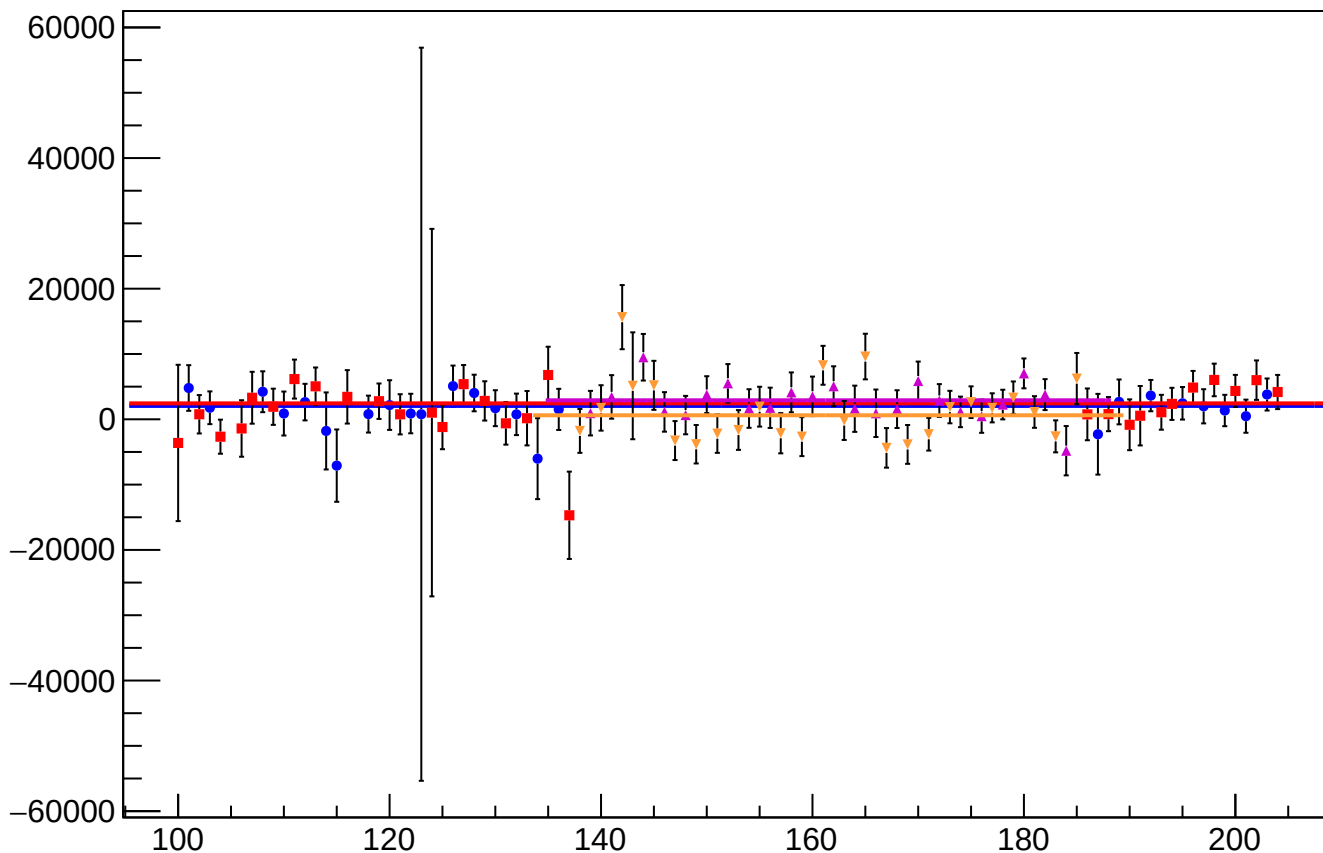
Right: 2733.565+/-0.385 χ^2/NDF : 2000556.3/54

In: 2603.492+/-0.342 χ^2/NDF :914169.5/47

Out: 2633.171+/-0.330 χ^2/NDF :1476083.1/54

All: 2618.835+/-0.237 χ^2/NDF : 2394153.3/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2051.134+/-620.424 χ^2/NDF : 10.1/24

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

Right Out: 2440.355+/-581.411 χ^2/NDF : 26.1/29

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

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

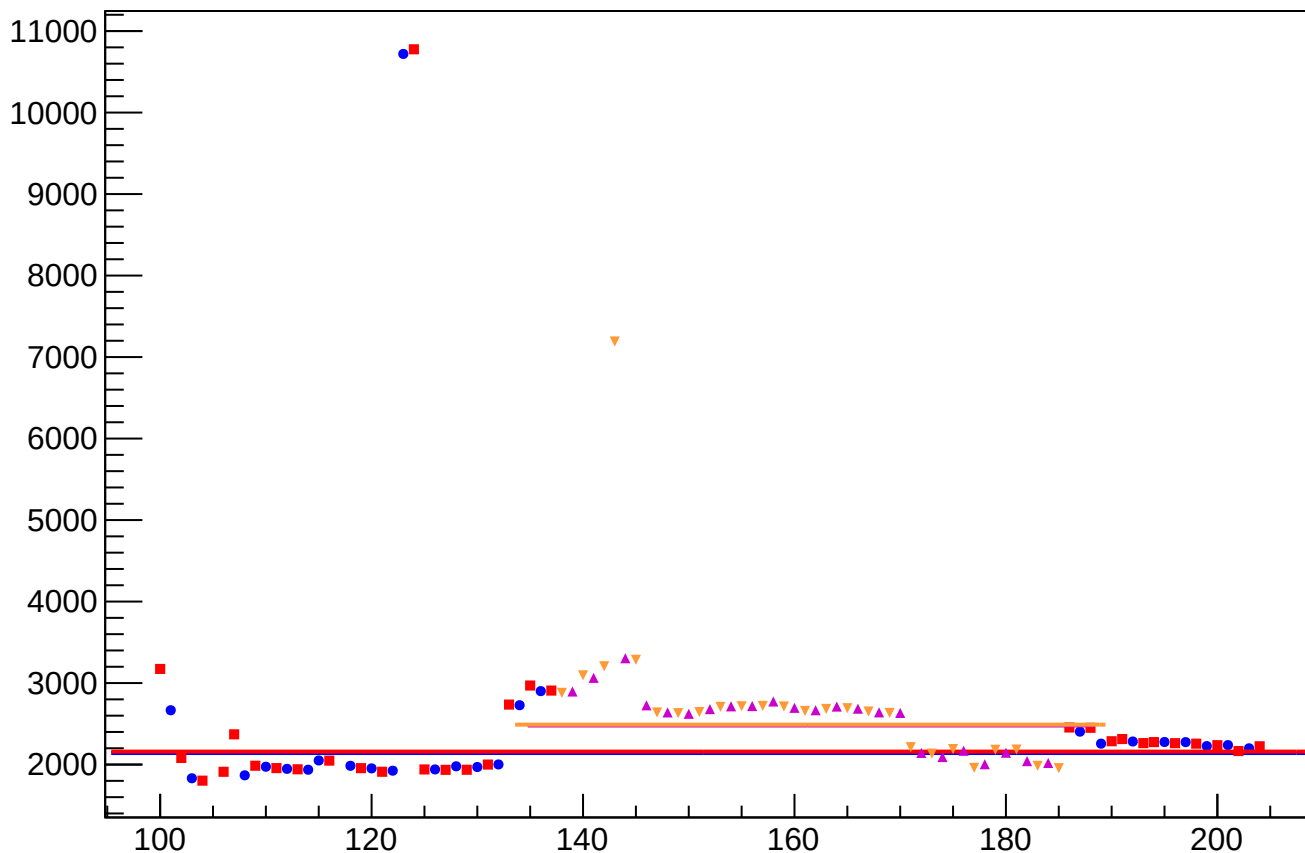
Right: 2258.365+/-424.242 χ^2/NDF : 36.3/54

In: 2494.708+/-431.182 χ^2/NDF : 28.4/47

Out: 1542.767+/-414.519 χ^2/NDF : 76.1/54

All: 1999.989+/-298.827 χ^2/NDF : 107.0/102

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2141.568 $\pm$ 0.439 χ^2 /NDF: 367873.7/24

Left Out: 2489.577 $\pm$ 0.418 χ^2 /NDF:1364203.3/24

Right Out: 2158.978 $\pm$ 0.411 χ^2 /NDF: 534013.1/29

Left In: 2479.348 $\pm$ 0.424 χ^2 /NDF:668398.2/22

Left: 2484.536 $\pm$ 0.298 χ^2 /NDF: 2032896.6/47

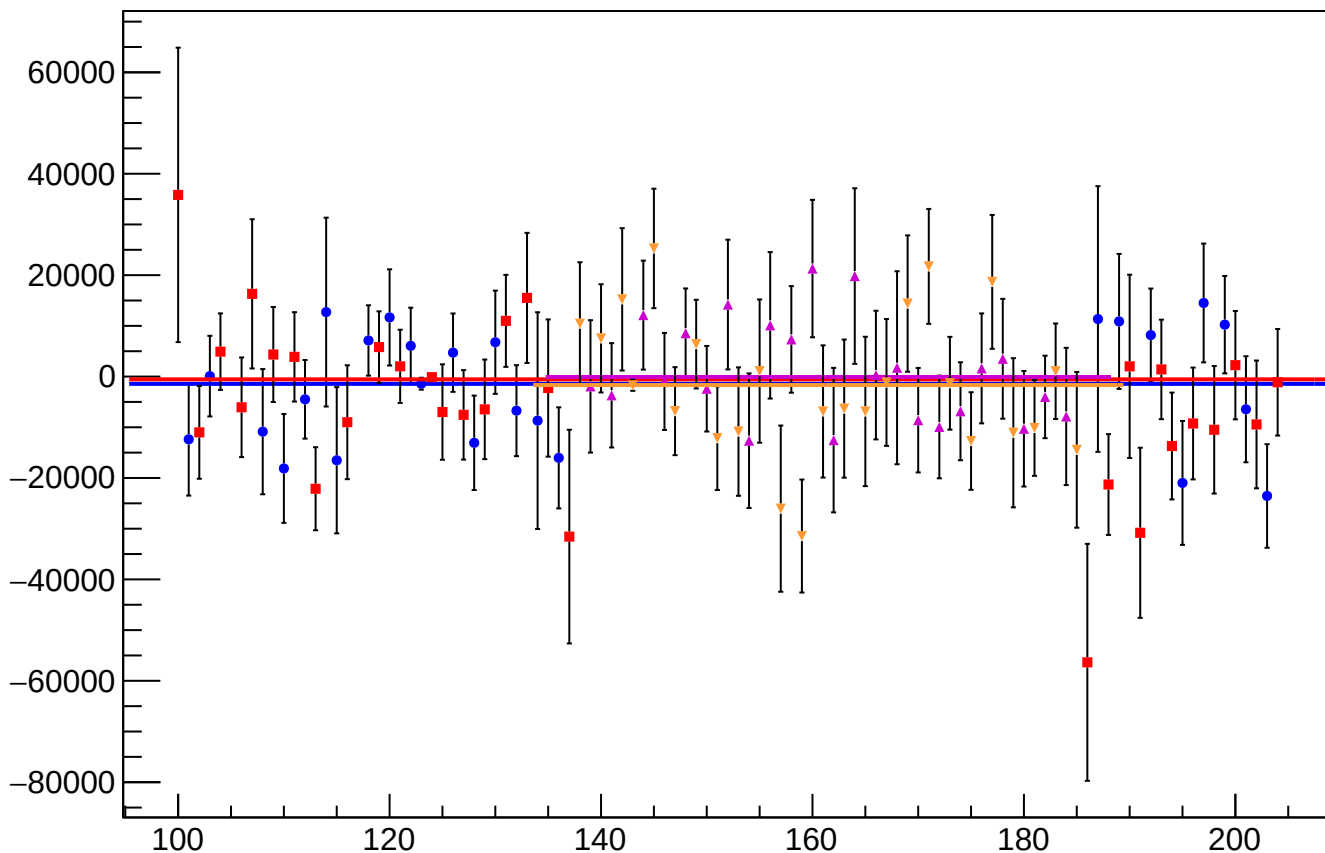
Right: 2150.837 $\pm$ 0.300 χ^2 /NDF: 902725.4/54

In: 2316.201 $\pm$ 0.305 χ^2 /NDF:1342761.5/47

Out: 2321.532 $\pm$ 0.293 χ^2 /NDF:2216170.8/54

All: 2318.971 $\pm$ 0.211 χ^2 /NDF: 3559091.1/100

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1437.333+/-1019.795 χ^2/NDF : 28.7/24

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

Right Out: -549.186+/-682.807 χ^2/NDF : 37.9/29

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

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

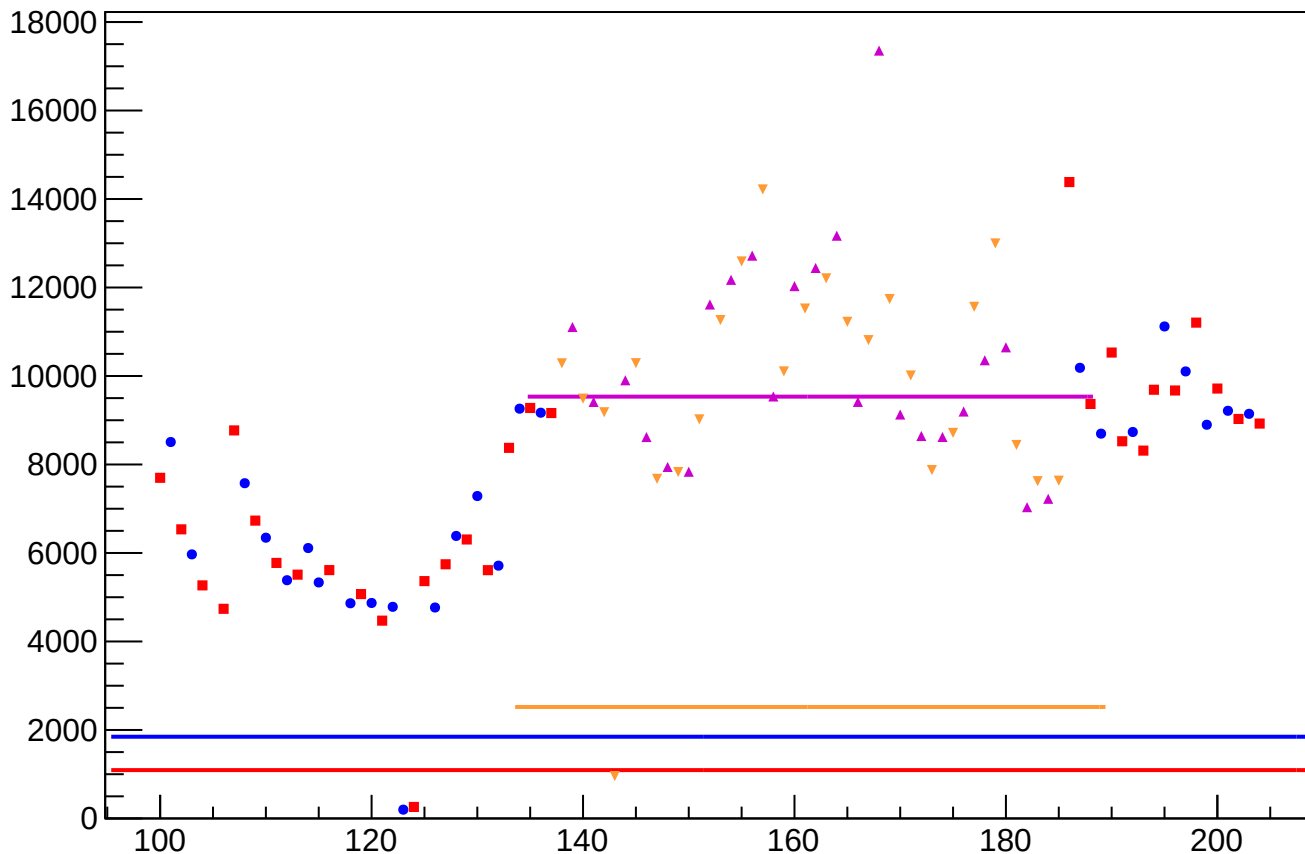
Right: -824.099+/-567.373 χ^2/NDF : 67.1/54

In: -1219.403+/-934.330 χ^2/NDF : 42.8/47

Out: -907.502+/-562.641 χ^2/NDF : 71.2/54

All: -990.506+/-481.995 χ^2/NDF : 114.0/102

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1847.261+/-0.721

χ^2/NDF : 17610762.7/24

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 1092.484+/-0.483

χ^2/NDF : 22906651.4/29

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

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

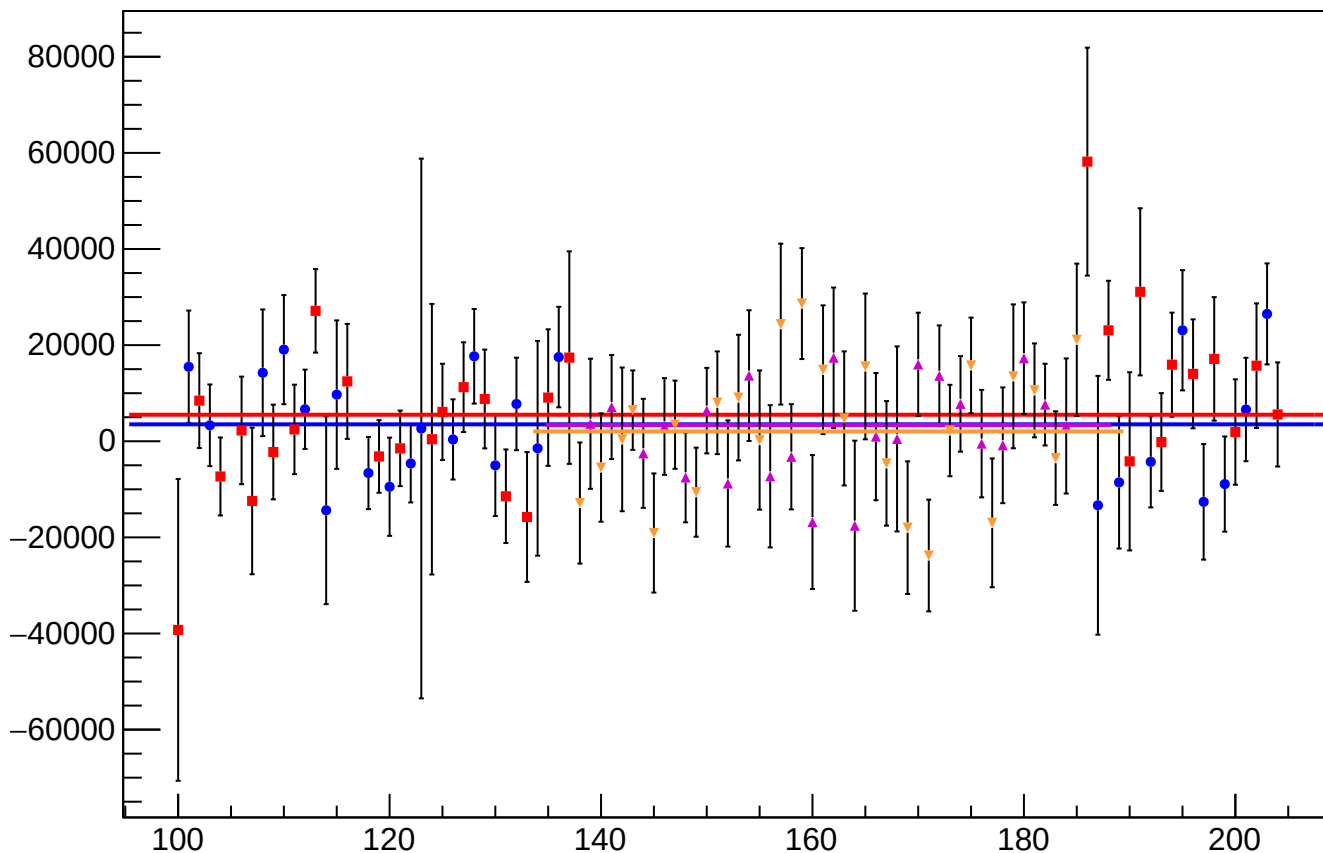
Right: 1326.114+/-0.401 χ^2/NDF : 41273867.2/54

In: 3081.602+/-0.661 χ^2/NDF : 37172945.2/47

Out: 1550.518+/-0.398 χ^2/NDF : 49352378.9/54

All: 1957.977+/-0.341 χ^2/NDF : 90466724.6/1

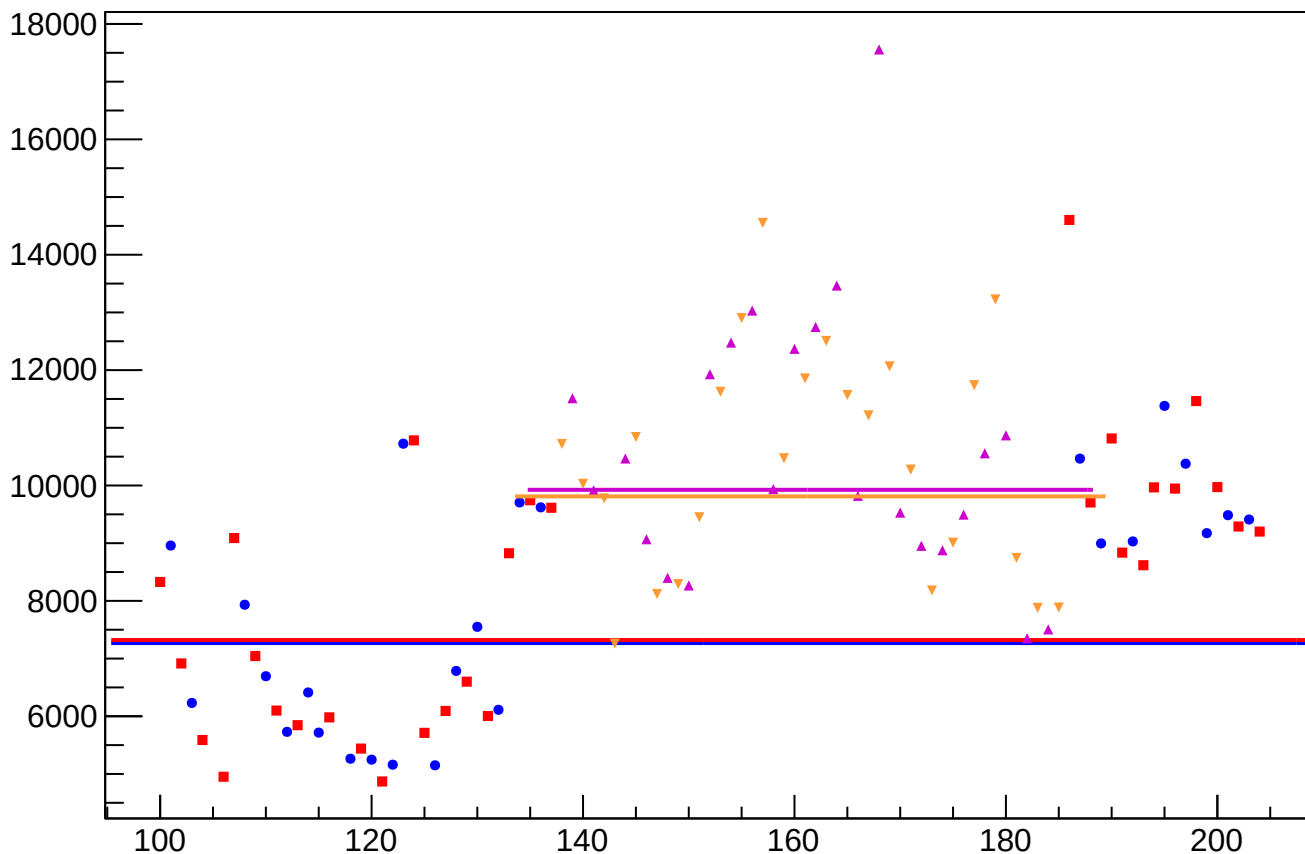
asym_atl2_mean vs Slug, Sign Corrected



Right In: 3521.199+/-2163.776 χ^2/NDF : 26.6/24
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 5519.738+/-2032.787 χ^2/NDF : 35.5/29
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 4582.789+/-1481.542 χ^2/NDF : 62.5/54
 In: 3454.981+/-1613.987 χ^2/NDF :39.7/47
 Out: 4025.270+/-1532.761 χ^2/NDF :67.5/54
 All: 3754.837+/-1111.432 χ^2/NDF : 107.2/102

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7268.944+/-1.530 χ^2/NDF : 1548600.5/24

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

Right Out: 7321.294+/-1.437 χ^2/NDF : 1990419.8/29

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

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

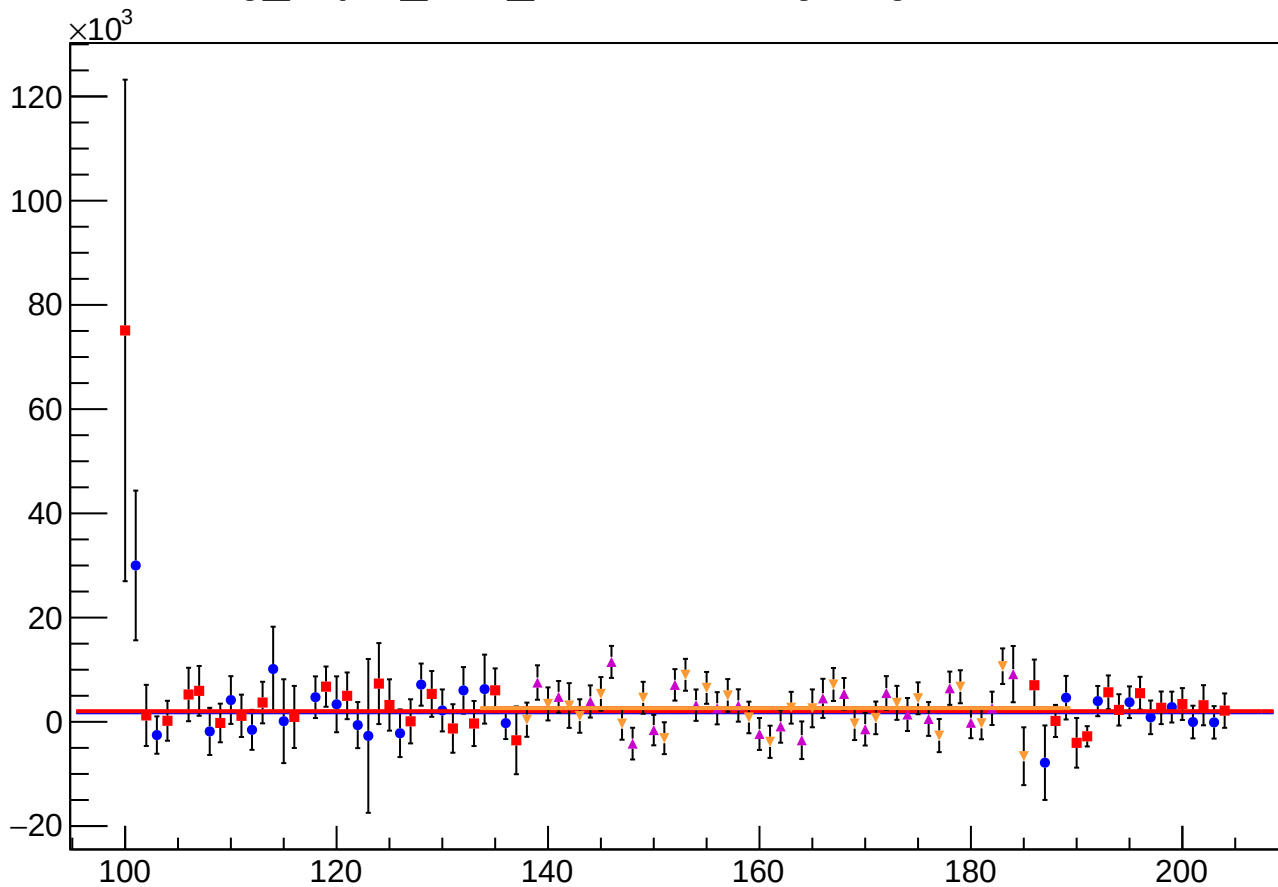
Right: 7296.752+/-1.048 χ^2/NDF : 3539642.1/54

In: 8447.356+/-1.141 χ^2/NDF : 4097359.5/47

Out: 8395.472+/-1.084 χ^2/NDF : 4498769.5/54

All: 8420.075+/-0.786 χ^2/NDF : 8597215.7/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1831.145+/-816.430 χ^2/NDF : 17.6/24

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

Right Out: 2042.496+/-707.841 χ^2/NDF : 21.8/29

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

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

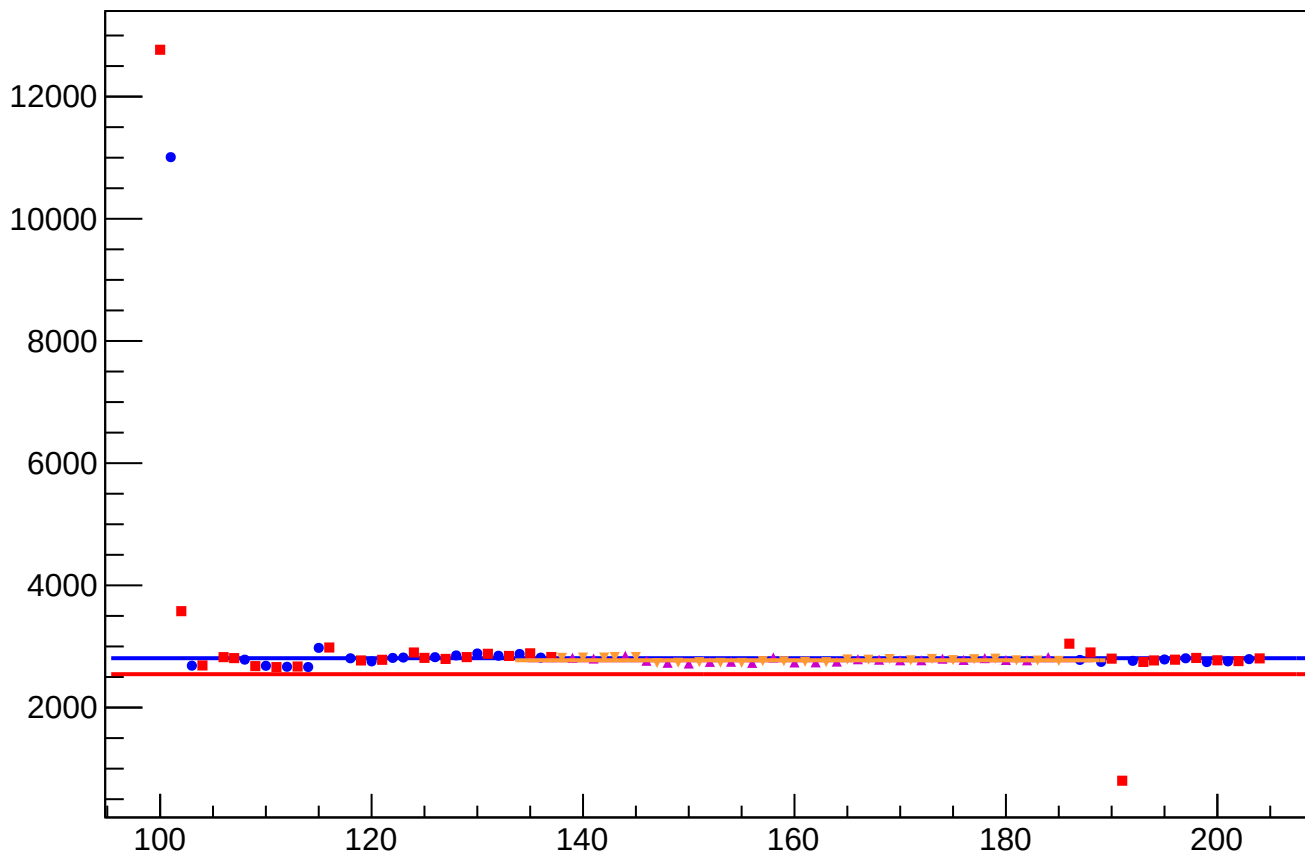
Right: 1951.801+/-534.821 χ^2/NDF : 39.5/54

In: 2316.811+/-515.404 χ^2/NDF : 53.4/47

Out: 2366.155+/-477.207 χ^2/NDF : 57.3/54

All: 2343.379+/-350.162 χ^2/NDF : 110.7/102

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2807.658 $\pm$ 0.577 χ^2 /NDF: 664287.6/24

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

Right Out: 2546.178 $\pm$ 0.501 χ^2 /NDF: 1987584.9/29

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

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

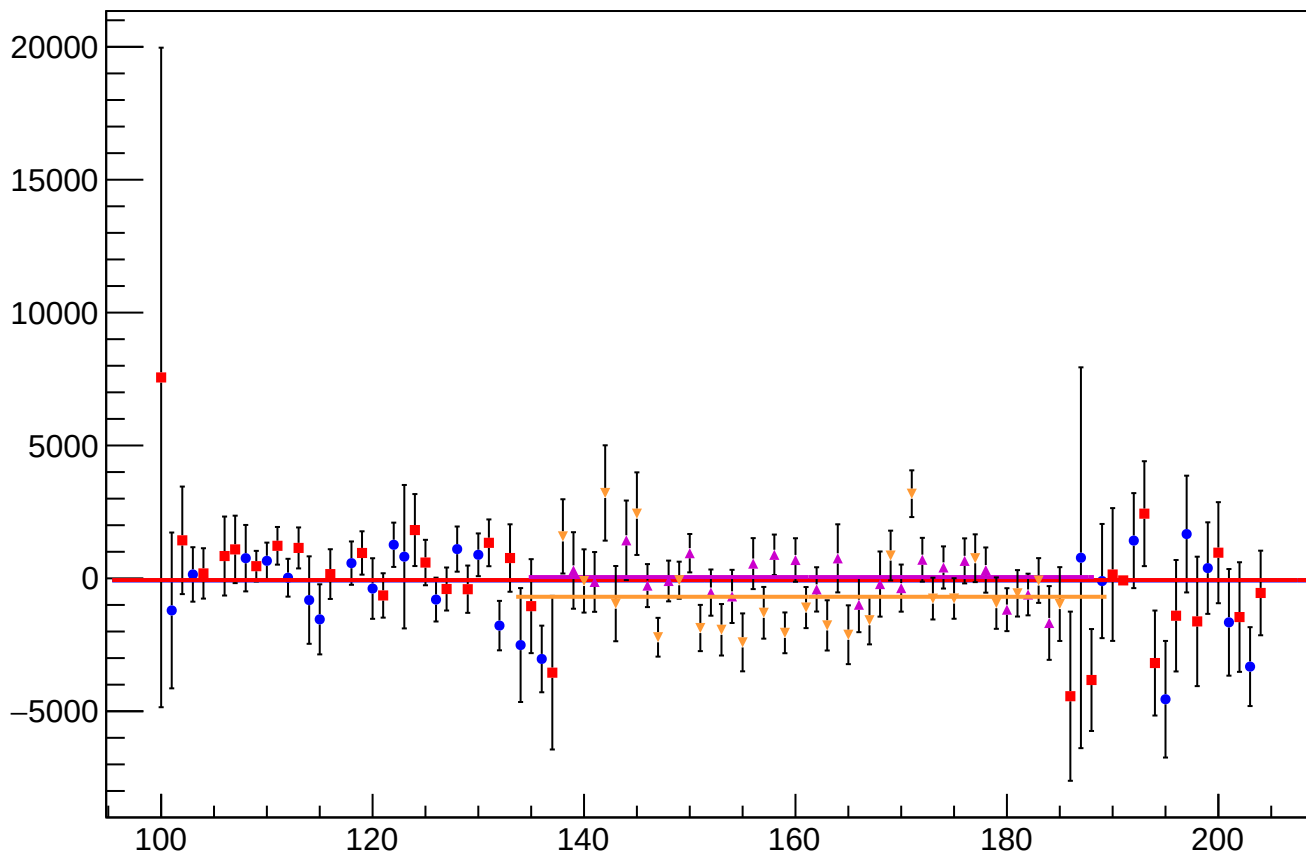
Right: 2658.384 $\pm$ 0.378 χ^2 /NDF: 2768988.0/54

In: 2787.435 $\pm$ 0.364 χ^2 /NDF: 671313.0/47

Out: 2670.296 $\pm$ 0.337 χ^2 /NDF: 2104932.3/54

All: 2724.365 $\pm$ 0.248 χ^2 /NDF: 2831869.2/100

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -79.495 ± 229.326 $\chi^2/\text{NDF}: 31.9/24$

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

Right Out: -63.234 ± 37.876 $\chi^2/\text{NDF}: 30.1/29$

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

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

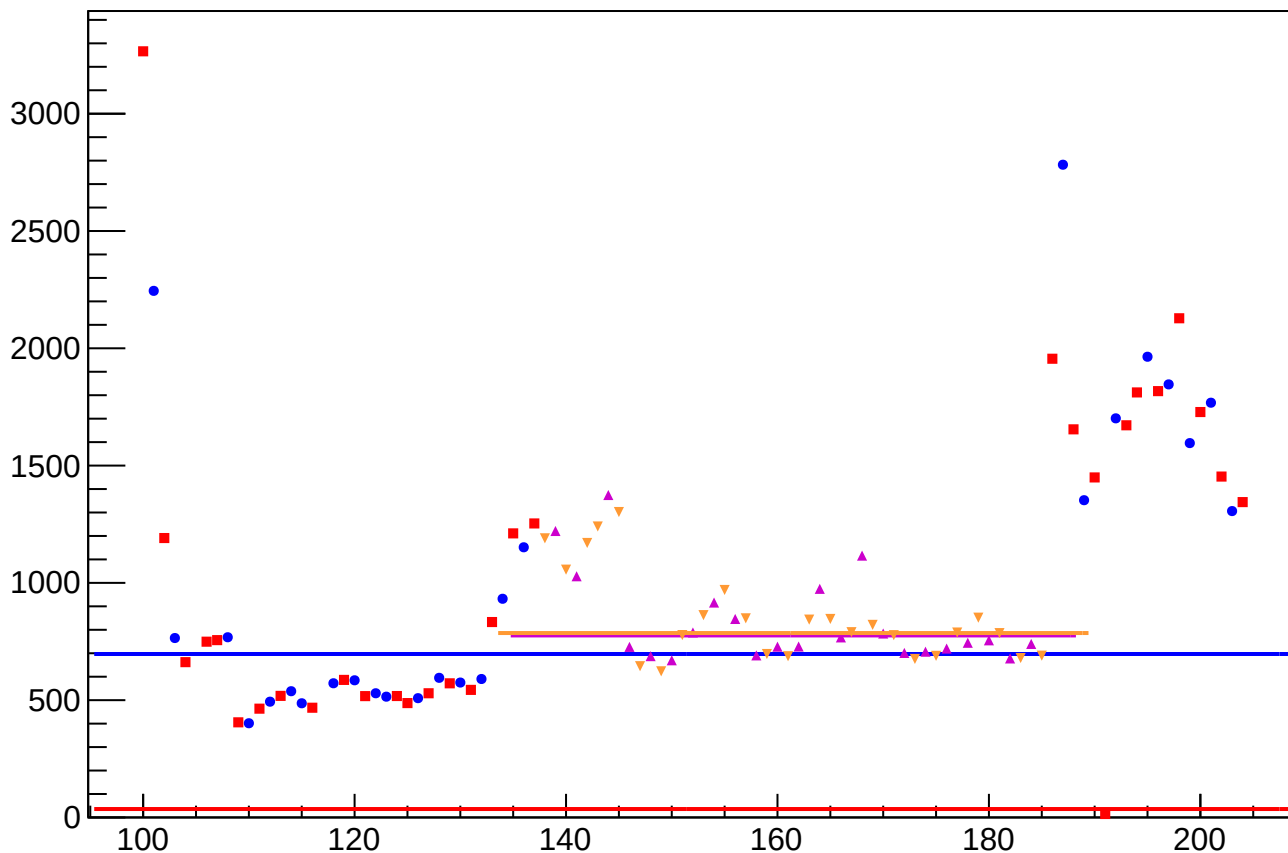
Right: -63.666 ± 37.370 $\chi^2/\text{NDF}: 62.0/54$

In: -2.892 ± 145.937 $\chi^2/\text{NDF}: 45.8/47$

Out: -87.969 ± 37.124 $\chi^2/\text{NDF}: 96.9/54$

All: -82.798 ± 35.979 $\chi^2/\text{NDF}: 143.0/102$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 696.801+/-0.162

χ^2/NDF : 5478415.3/24

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 35.938+/-0.027

χ^2/NDF : 25268617.2/29

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 53.487+/-0.026

χ^2/NDF : 46915033.2/54

In: 743.885+/-0.103

χ^2/NDF :6676870.6/47

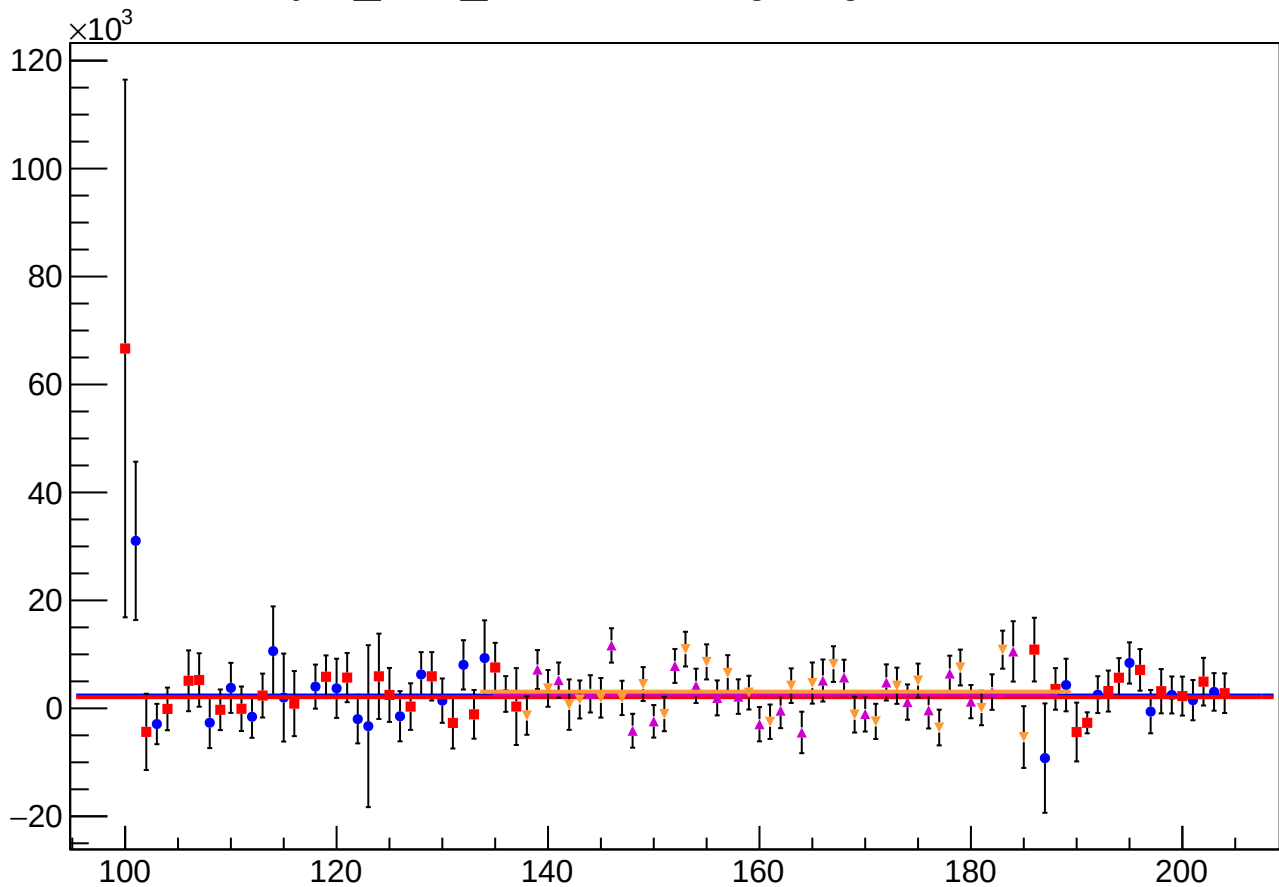
Out: 65.413+/-0.026

χ^2/NDF :57346833.5/54

All: 106.650+/-0.025

χ^2/NDF : 104623937.4/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2375.969+/-897.314 χ^2/NDF : 19.1/24

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

Right Out: 2067.512+/-772.823 χ^2/NDF : 23.0/29

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

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

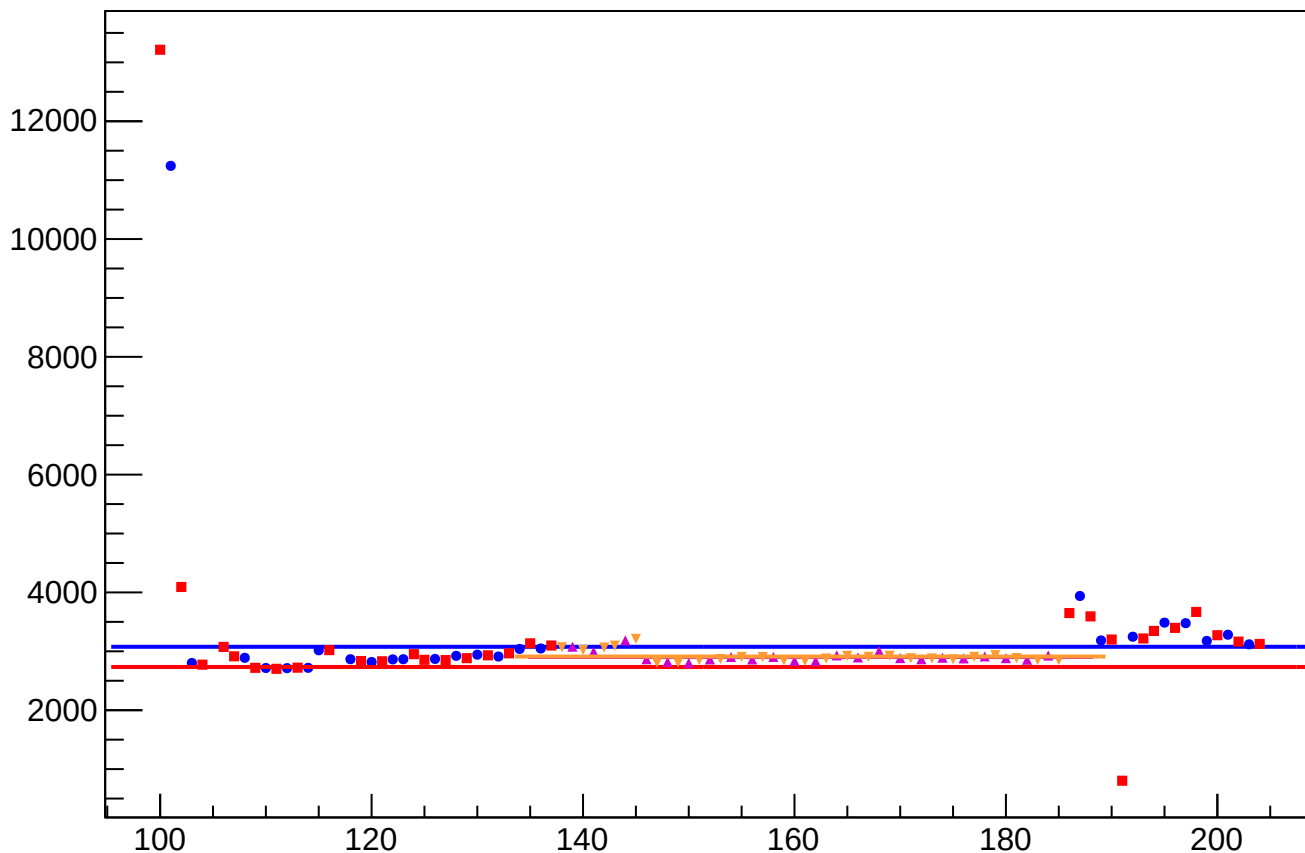
Right: 2198.875+/-585.577 χ^2/NDF : 42.2/54

In: 2499.130+/-549.855 χ^2/NDF :54.9/47

Out: 2647.646+/-509.881 χ^2/NDF :62.7/54

All: 2578.982+/-373.874 χ^2/NDF : 117.6/102

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3076.795+/-0.634 χ^2/NDF : 765022.8/24

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

Right Out: 2734.143+/-0.546 χ^2/NDF : 2680858.6/29

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

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

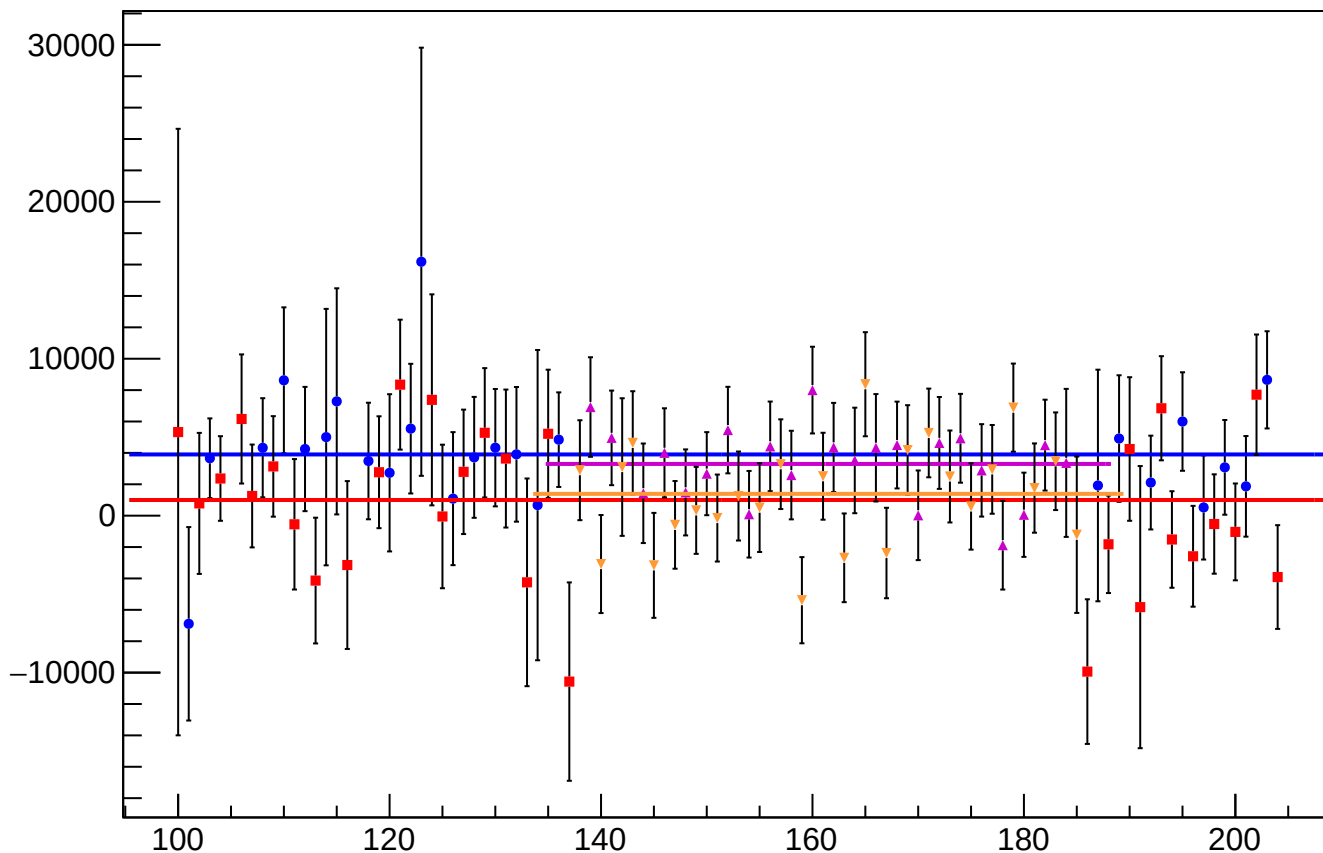
Right: 2880.069+/-0.414 χ^2/NDF : 3613320.4/54

In: 2968.516+/-0.389 χ^2/NDF :840494.3/47

Out: 2834.143+/-0.361 χ^2/NDF :2776802.4/54

All: 2896.268+/-0.264 χ^2/NDF : 3681516.5/10

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3901.224+/-774.448 χ^2/NDF : 10.9/24

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

Right Out: 998.610+/-715.667 χ^2/NDF : 34.3/29

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

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

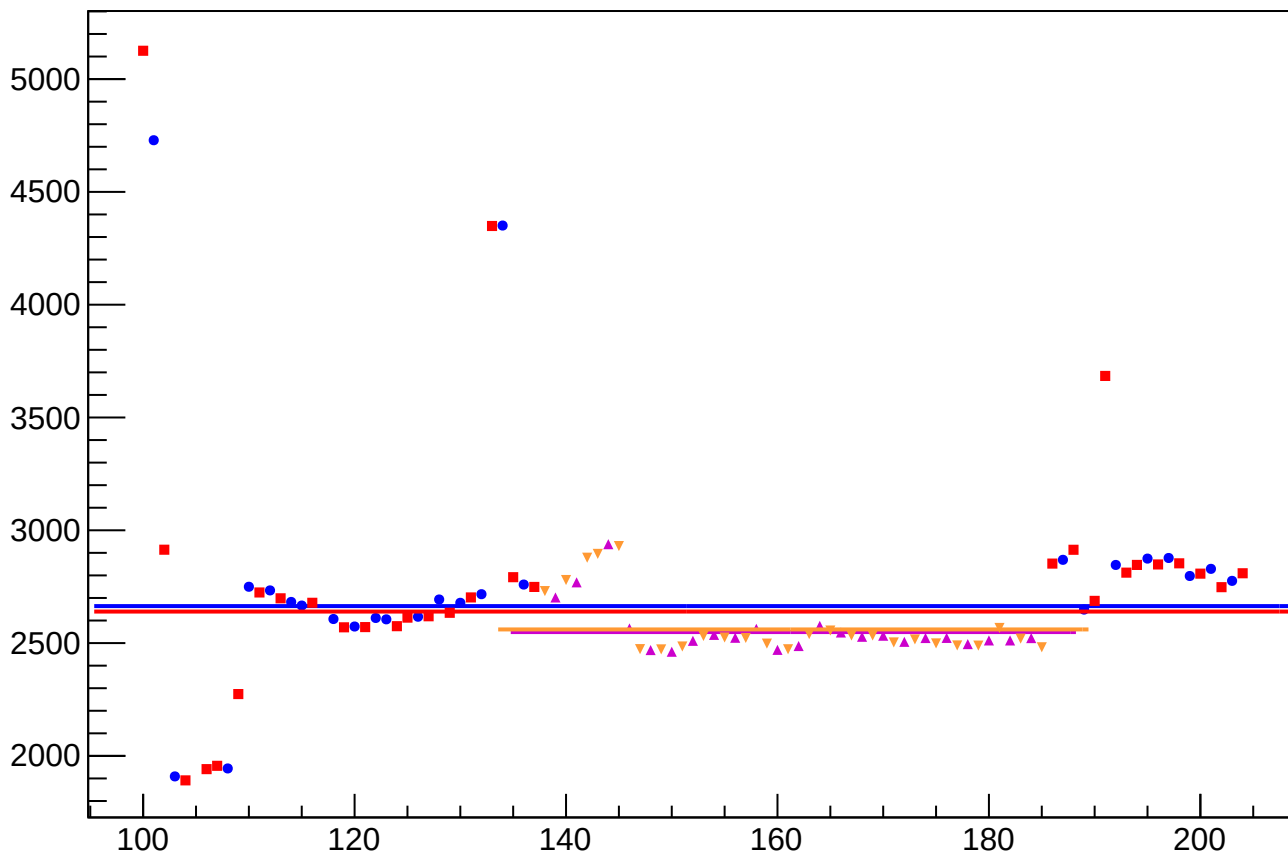
Right: 2335.594+/-525.607 χ^2/NDF : 52.7/54

In: 3527.327+/-479.197 χ^2/NDF : 26.1/47

Out: 1229.716+/-458.216 χ^2/NDF : 63.6/54

All: 2327.123+/-331.177 χ^2/NDF : 101.7/102

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2663.979 $\pm$ 0.548 χ^2 /NDF: 607177.2/24

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

Right Out: 2639.765 $\pm$ 0.506 χ^2 /NDF: 597496.3/29

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

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

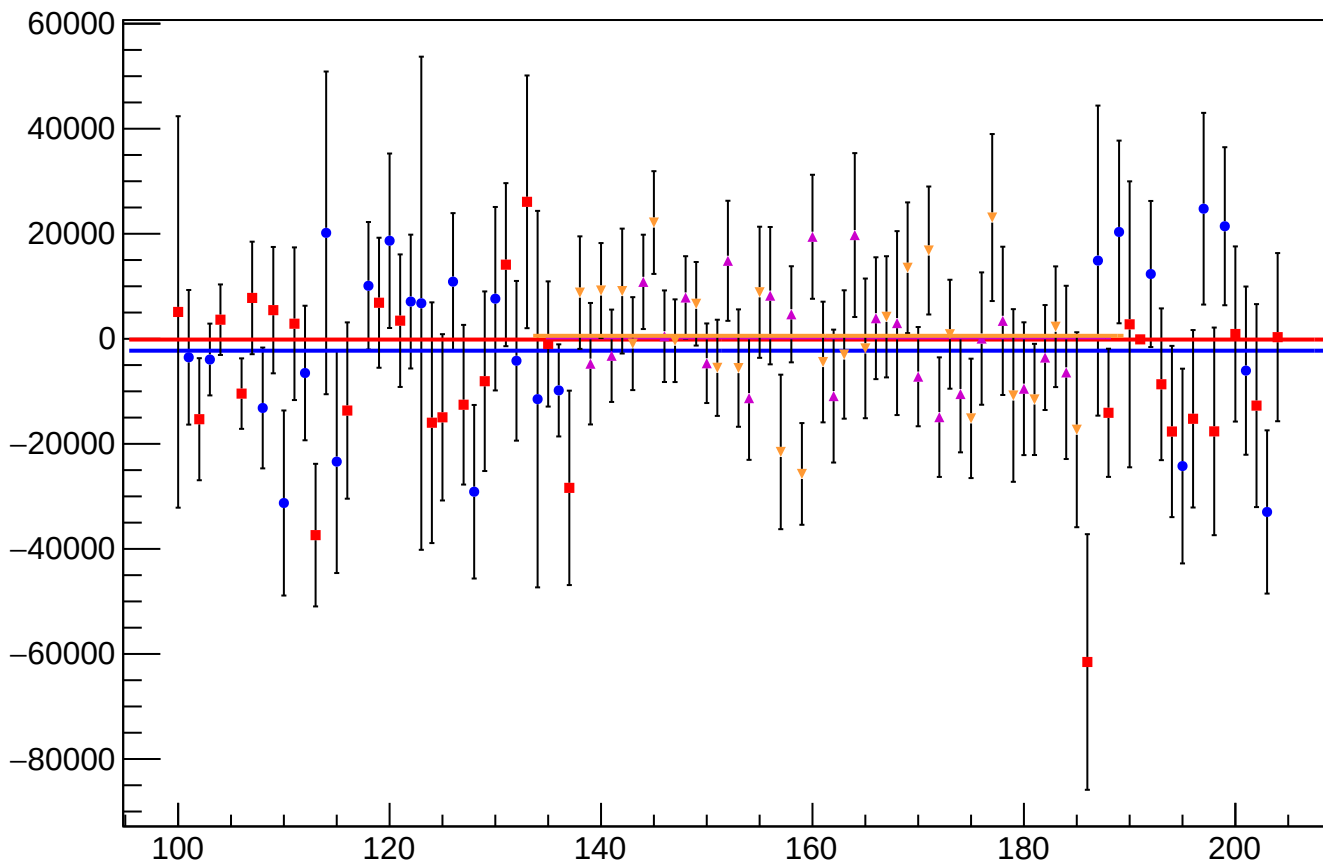
Right: 2650.919 $\pm$ 0.372 χ^2 /NDF: 1205728.0/54

In: 2592.941 $\pm$ 0.339 χ^2 /NDF: 689710.9/47

Out: 2593.013 $\pm$ 0.324 χ^2 /NDF: 698733.1/54

All: 2592.978 $\pm$ 0.234 χ^2 /NDF: 1388444.1/100

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2261.961 $\pm$ 2844.404 χ^2 /NDF: 26.5/24

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

Right Out: -141.005 $\pm$ 194.966 χ^2 /NDF: 31.6/29

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

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

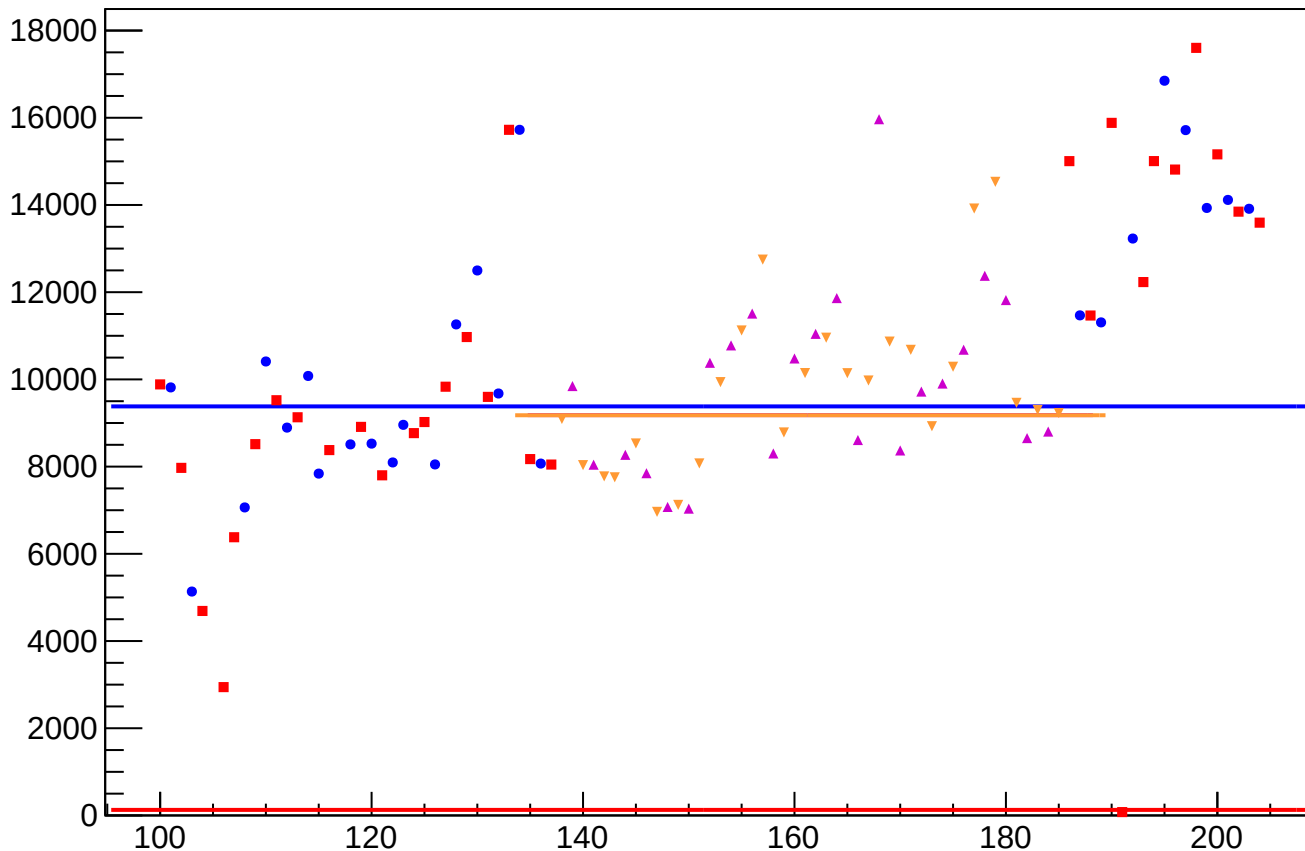
Right: -150.923 $\pm$ 194.510 χ^2 /NDF: 58.6/54

In: -697.549 $\pm$ 1761.190 χ^2 /NDF:42.7/47

Out: -135.366 $\pm$ 194.194 χ^2 /NDF:59.9/54

All: -142.119 $\pm$ 193.025 χ^2 /NDF: 102.7/102

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9380.766 $\pm$ 2.011

χ^2 /NDF: 2412944.2/24

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right Out: 127.624 $\pm$ 0.138

χ^2 /NDF: 26793225.8/29

Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Right: 170.894 $\pm$ 0.138

χ^2 /NDF: 50272564.0/54

In: 9257.743 $\pm$ 1.245

χ^2 /NDF: 3655481.3/47

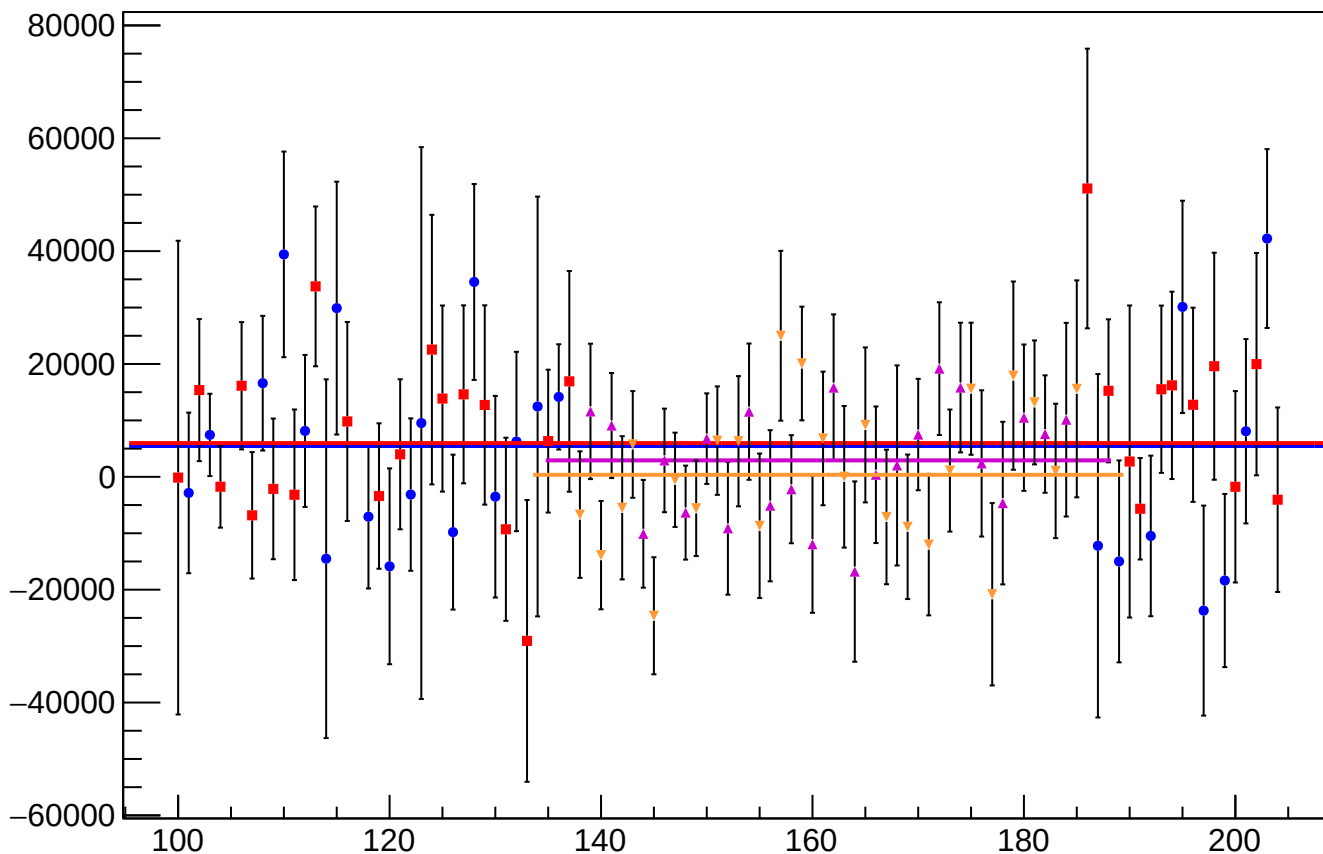
Out: 199.151 $\pm$ 0.137

χ^2 /NDF: 62028462.8/54

All: 307.962 $\pm$ 0.136

χ^2 /NDF: 117958537.6/100

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5467.808 $\pm$ 2982.172 χ^2 /NDF: 29.4/24

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

Right Out: 5981.069 $\pm$ 2629.220 χ^2 /NDF: 21.4/29

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

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

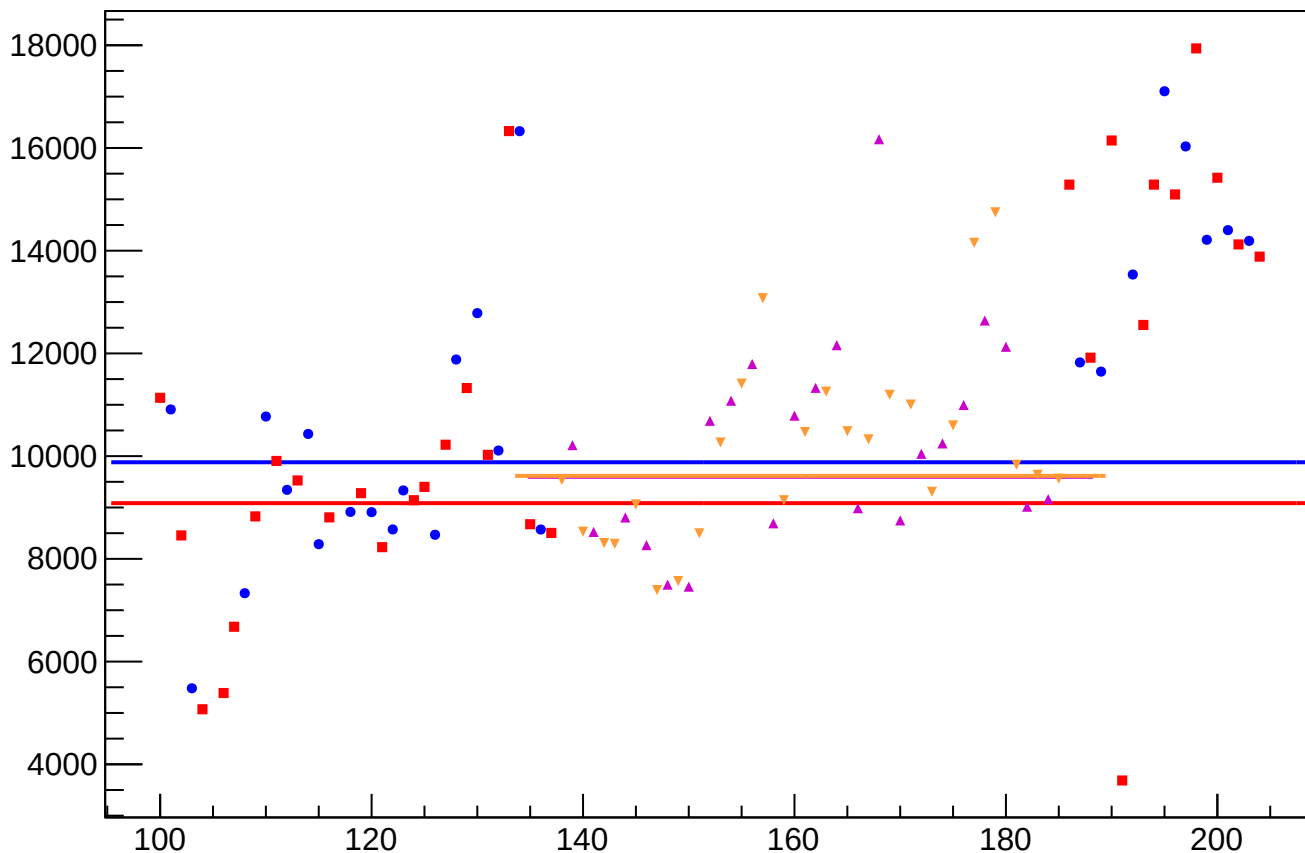
Right: 5756.595 $\pm$ 1972.180 χ^2 /NDF: 50.8/54

In: 3889.089 $\pm$ 1840.175 χ^2 /NDF:44.7/47

Out: 2772.279 $\pm$ 1723.261 χ^2 /NDF:50.3/54

All: 3294.081 $\pm$ 1257.832 χ^2 /NDF: 95.2/102

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9880.702 $\pm$ 2.109 χ^2/NDF : 2219427.2/24

Left Out: 9616.245 $\pm$ 1.613 χ^2/NDF : 1011665.6/24

Right Out: 9084.682 $\pm$ 1.859 χ^2/NDF : 3848763.3/29

Left In: 9598.531 $\pm$ 1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2/NDF : 2093896.0/47

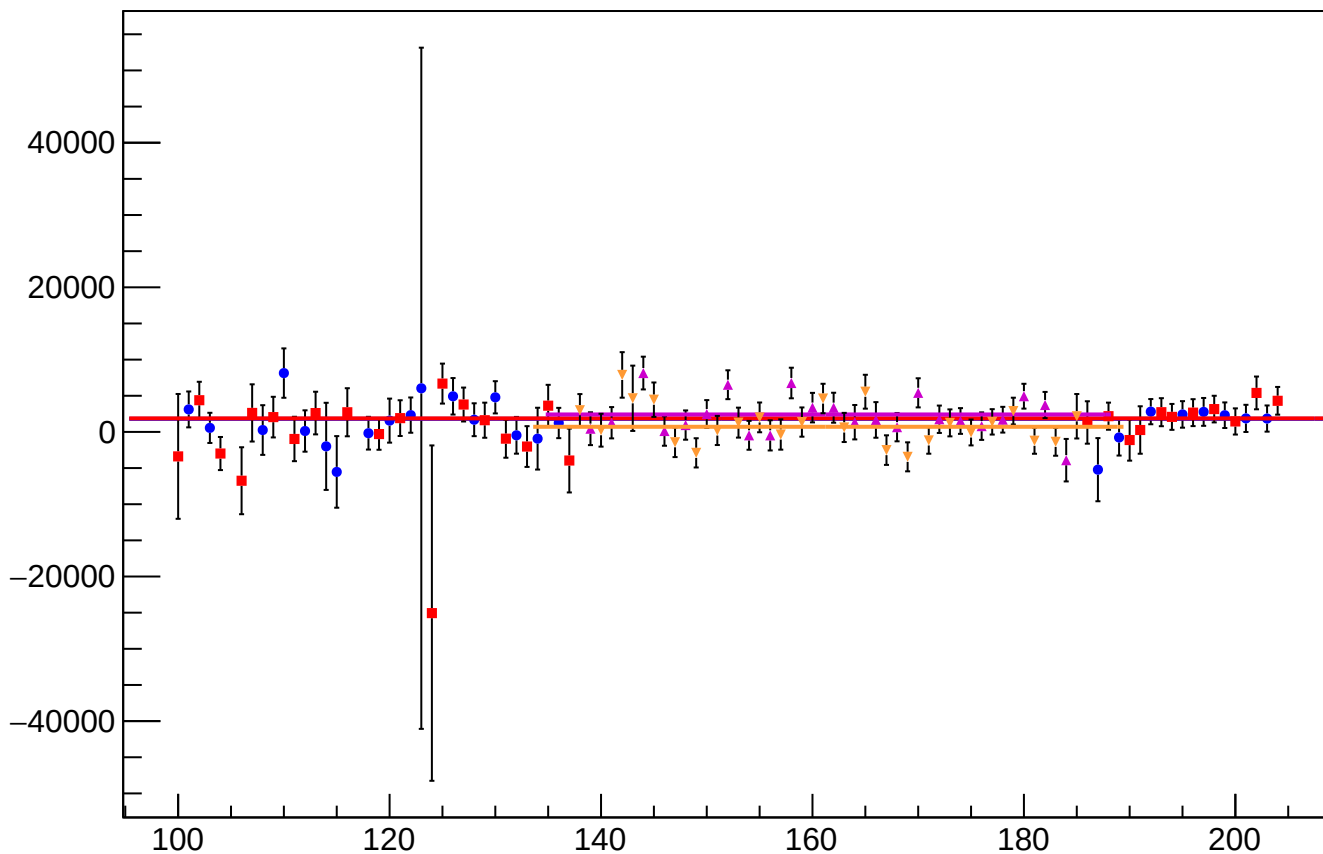
Right: 9432.807 $\pm$ 1.395 χ^2/NDF : 6148370.4/54

In: 9705.971 $\pm$ 1.301 χ^2/NDF : 3312686.7/47

Out: 9387.885 $\pm$ 1.219 χ^2/NDF : 4907062.1/54

All: 9536.501 $\pm$ 0.889 χ^2/NDF : 8251587.0/10

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1811.273+/-486.255 χ^2/NDF : 17.1/24

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

Right Out: 1869.262+/-458.523 χ^2/NDF : 27.9/29

Left In: 2414.749+/-423.472 χ^2/NDF :34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

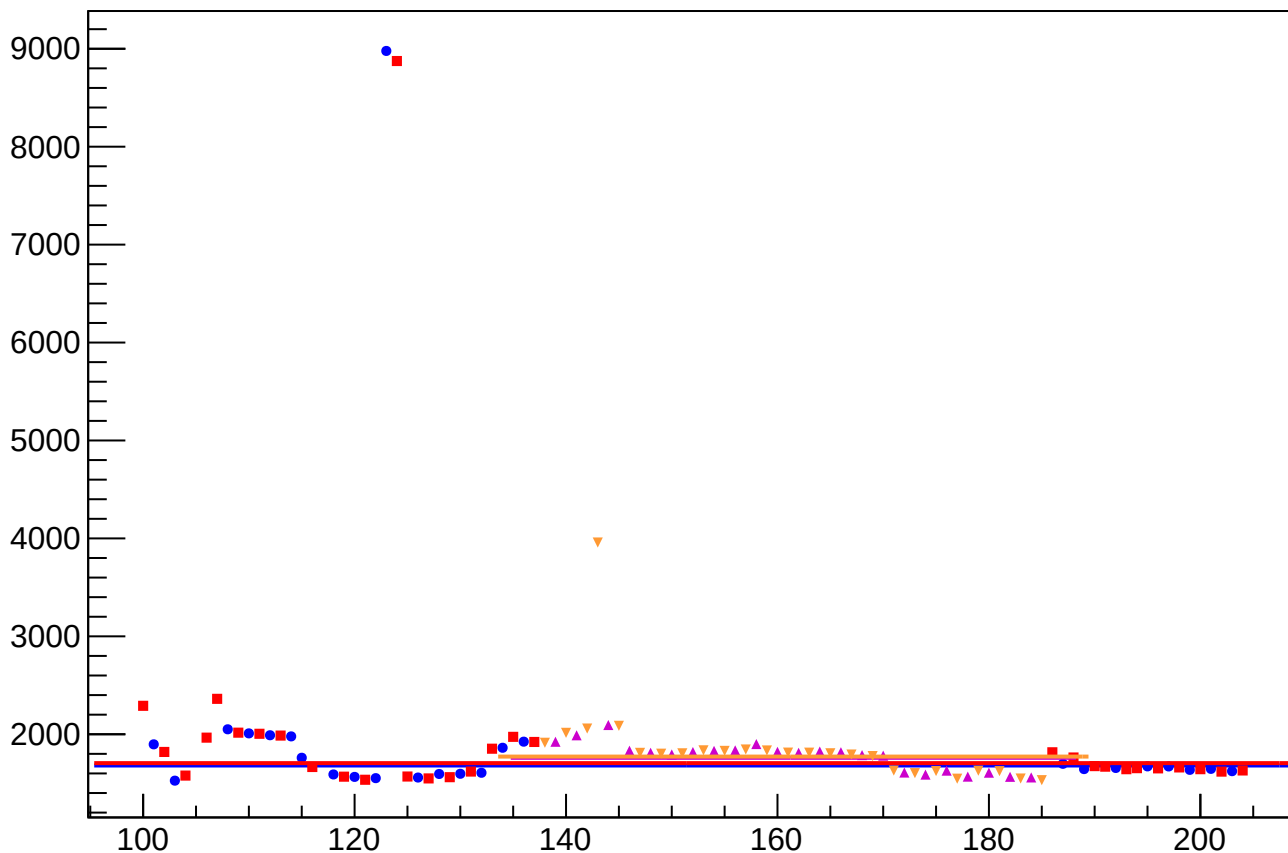
Right: 1841.968+/-333.598 χ^2/NDF : 45.0/54

In: 2154.461+/-319.345 χ^2/NDF :51.9/47

Out: 1235.142+/-308.654 χ^2/NDF :66.2/54

All: 1679.155+/-221.935 χ^2/NDF : 122.5/102

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1681.050+/-0.344 χ^2/NDF : 203985.0/24

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1705.316+/-0.324 χ^2/NDF : 424534.2/29

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

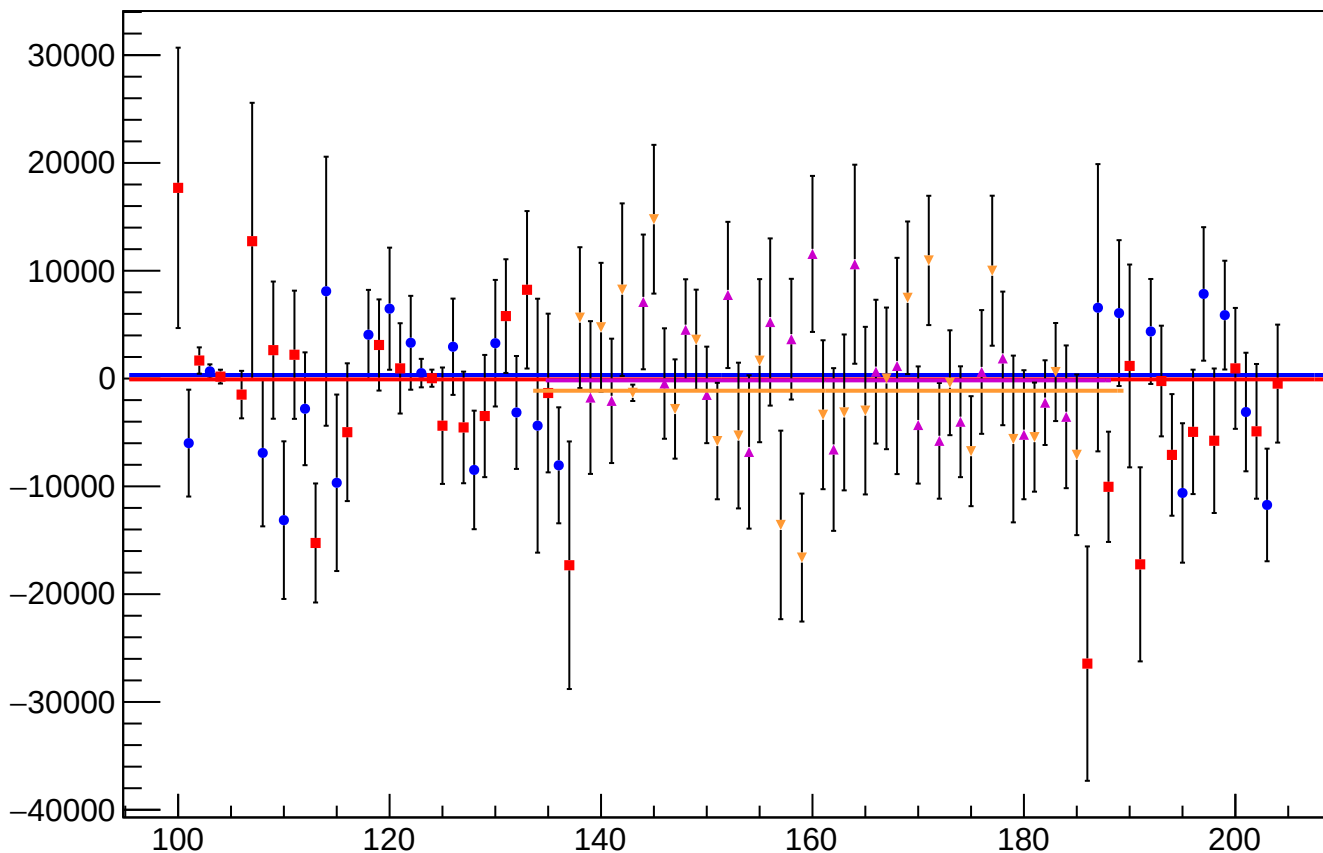
Right: 1693.920+/-0.236 χ^2/NDF : 631160.6/54

In: 1725.720+/-0.226 χ^2/NDF : 448556.0/47

Out: 1741.739+/-0.218 χ^2/NDF : 1150224.7/54

All: 1734.010+/-0.157 χ^2/NDF : 1601385.0/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 329.593+/-523.453 χ^2/NDF : 30.2/24

Left Out: -1129.807+/-647.600 χ^2/NDF :31.5/24

Right Out: -76.034+/-422.580 χ^2/NDF : 38.1/29

Left In: -168.182+/-1232.411 χ^2/NDF :14.2/22

Left: -921.734+/-573.272 χ^2/NDF : 46.1/47

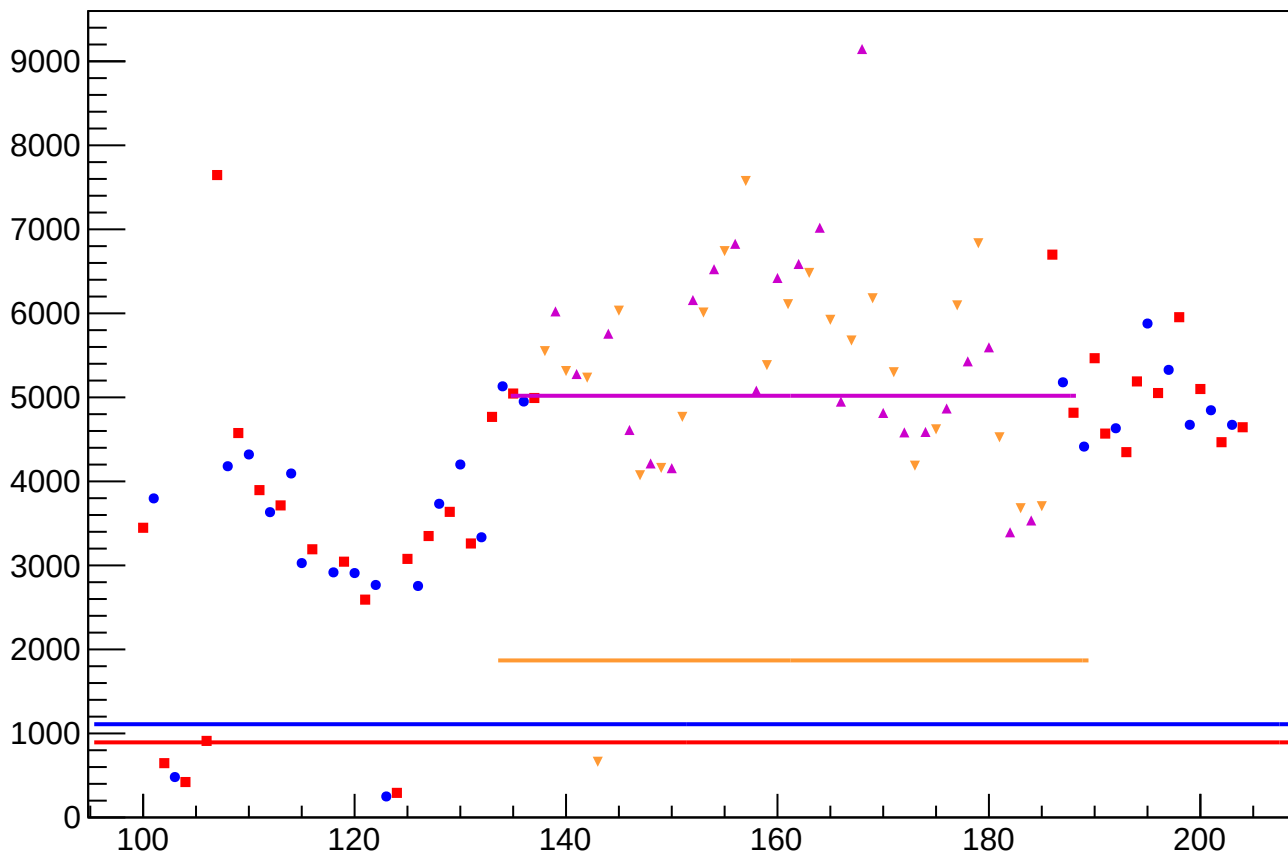
Right: 84.014+/-328.806 χ^2/NDF : 68.7/54

In: 253.517+/-481.795 χ^2/NDF :44.5/47

Out: -390.731+/-353.899 χ^2/NDF :71.5/54

All: -164.947+/-285.221 χ^2/NDF : 117.1/102

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1109.749+/-0.370

χ^2/NDF : 15139177.4/24

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 978.957+/-0.233

χ^2/NDF : 33717038.6/54

Right Out: 893.717+/-0.299

χ^2/NDF : 18371620.8/29

In: 1707.224+/-0.341

χ^2/NDF : 33757284.8/47

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

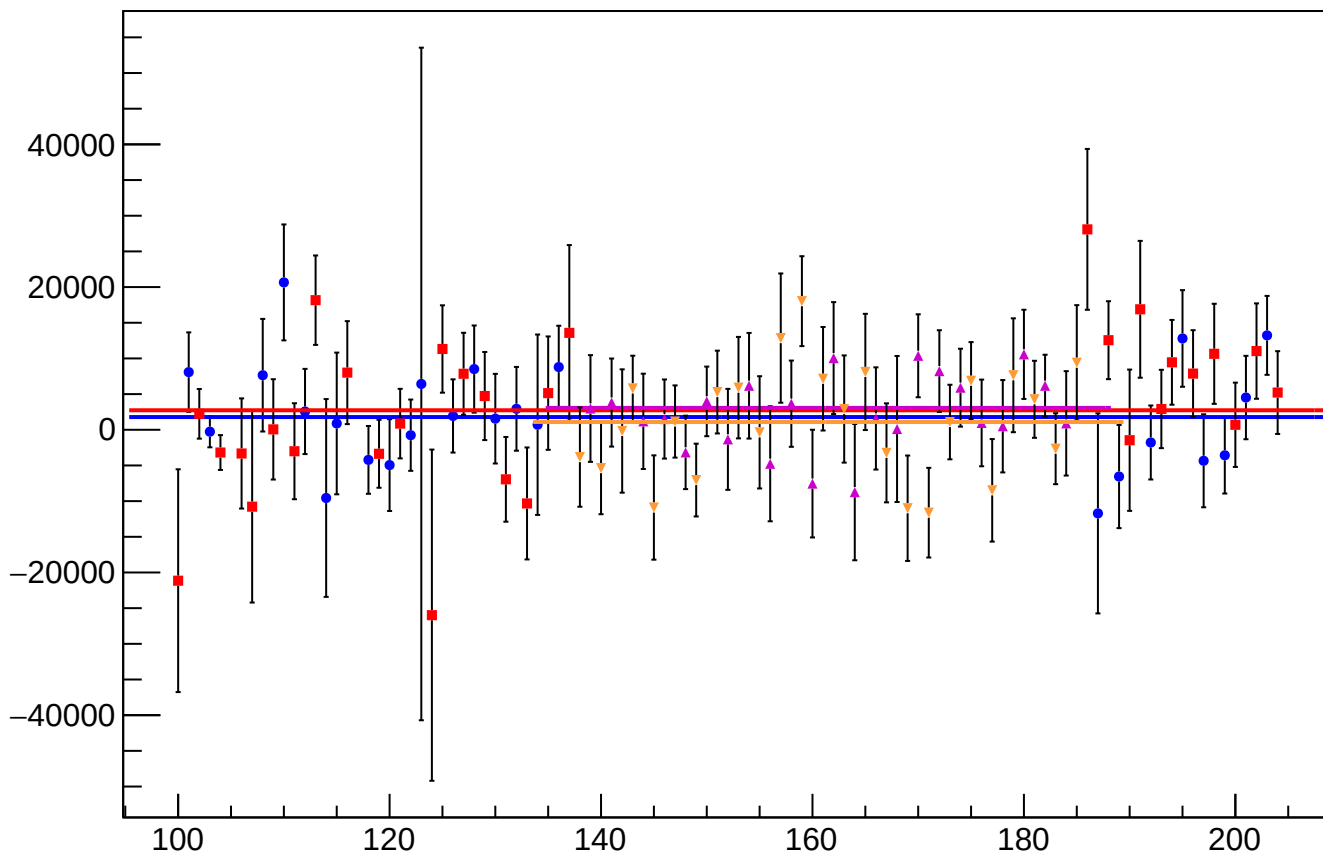
Out: 1184.969+/-0.250

χ^2/NDF : 41405340.4/54

All: 1367.999+/-0.202

χ^2/NDF : 76689051.5/1

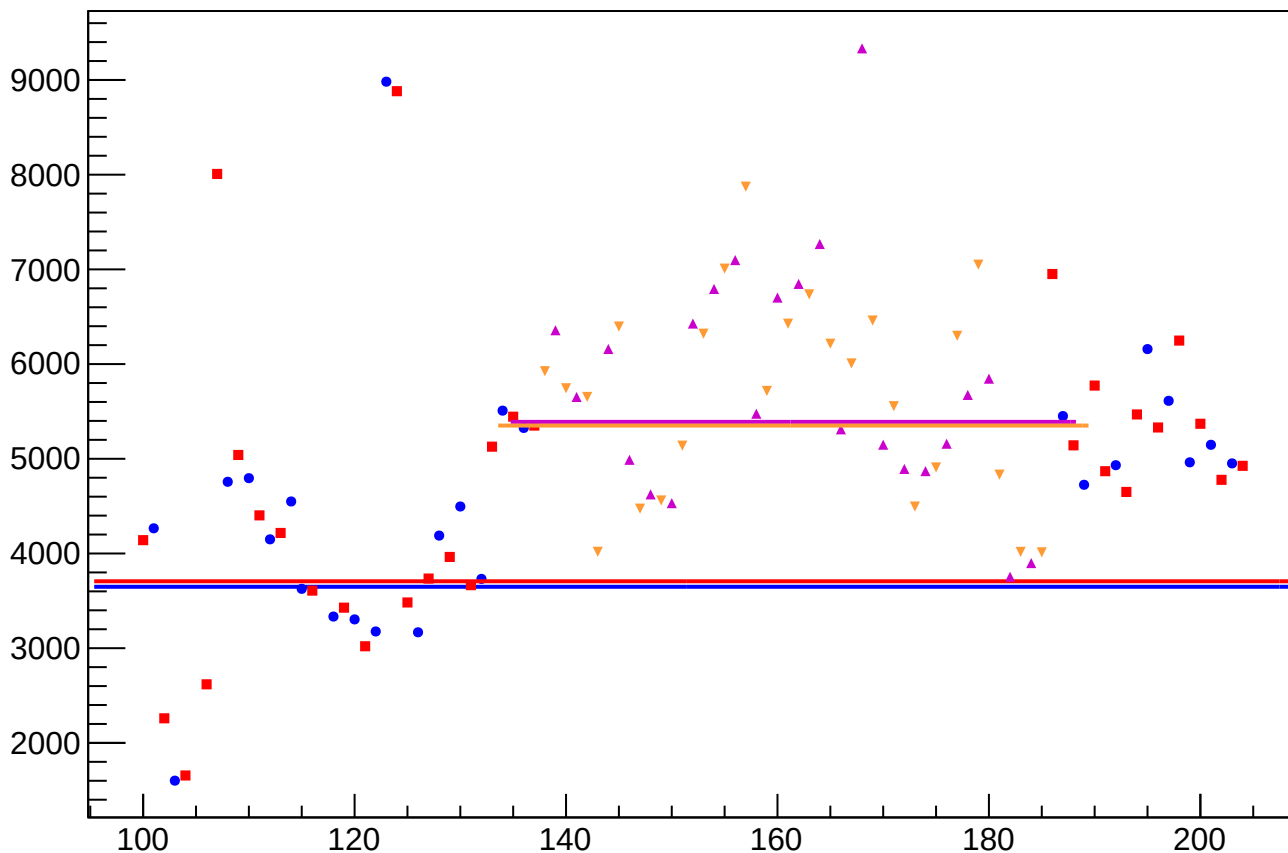
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1783.334 ± 1129.851 $\chi^2/\text{NDF}: 26.2/24$
Left Out: 1094.317 ± 1273.113 $\chi^2/\text{NDF}: 32.0/24$
Right Out: 2733.389 ± 1081.760 $\chi^2/\text{NDF}: 45.6/29$
Left In: 3064.775 ± 1318.173 $\chi^2/\text{NDF}: 12.6/22$

Left: 2045.291 ± 915.742 $\chi^2/\text{NDF}: 45.7/47$
Right: 2279.011 ± 781.368 $\chi^2/\text{NDF}: 72.2/54$
In: 2326.056 ± 857.851 $\chi^2/\text{NDF}: 39.4/47$
Out: 2046.167 ± 824.359 $\chi^2/\text{NDF}: 78.5/54$
All: 2180.541 ± 594.397 $\chi^2/\text{NDF}: 118.0/102$

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3648.499 $\pm$ 0.799 χ^2/NDF : 3234938.9/24

Left Out: 5350.804 $\pm$ 0.900 χ^2/NDF : 1241497.9/24

Right Out: 3706.514 $\pm$ 0.757 χ^2/NDF : 3861980.6/29

Left In: 5389.724 $\pm$ 0.932 χ^2/NDF : 1309863.0/22

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

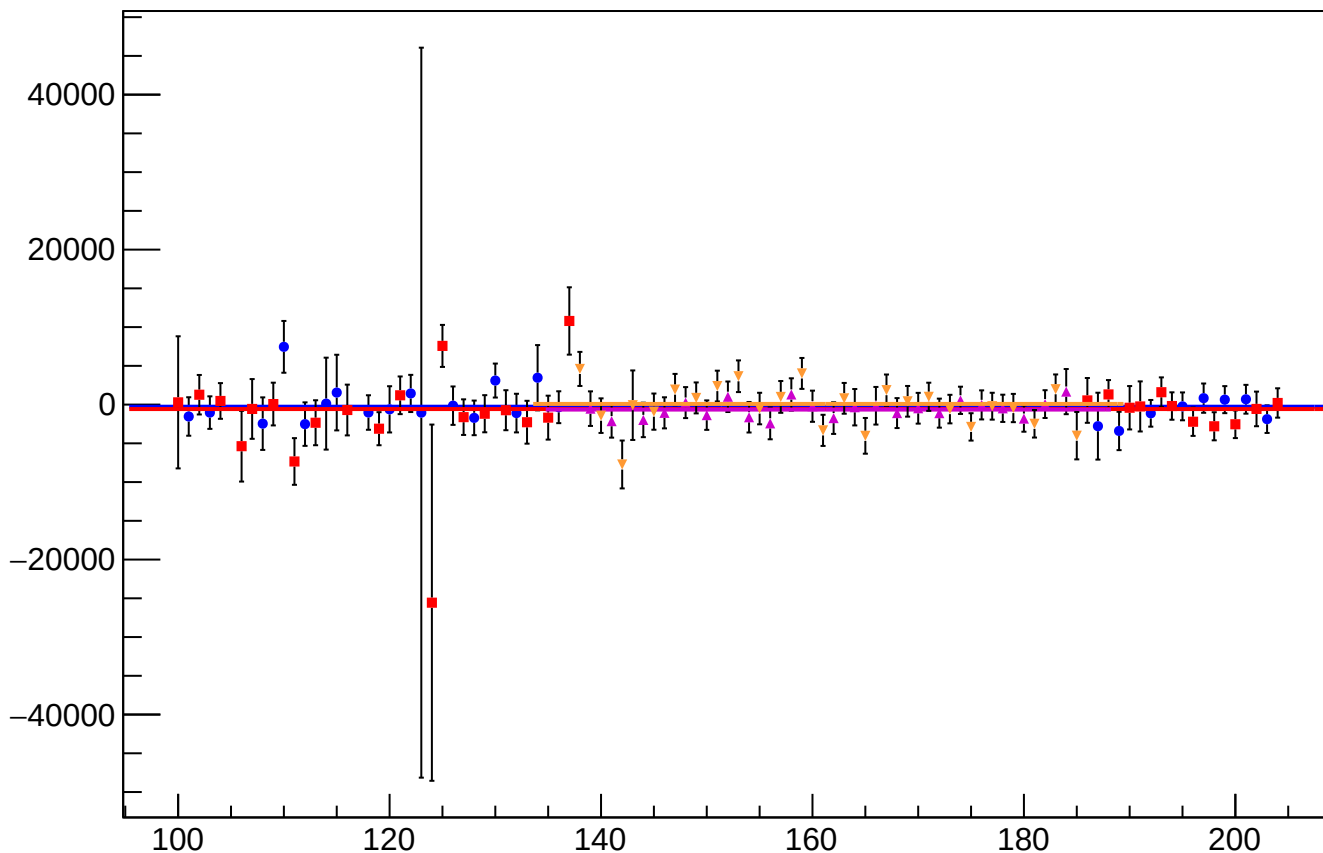
Right: 3679.067 $\pm$ 0.550 χ^2/NDF : 7099698.1/54

In: 4385.947 $\pm$ 0.607 χ^2/NDF : 6556566.6/47

Out: 4387.643 $\pm$ 0.579 χ^2/NDF : 7057700.0/54

All: 4386.834 $\pm$ 0.419 χ^2/NDF : 13614270.7/101

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -273.418 ± 479.302 χ^2/NDF : 15.1/24

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -575.726 ± 451.880 χ^2/NDF : 33.4/29

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

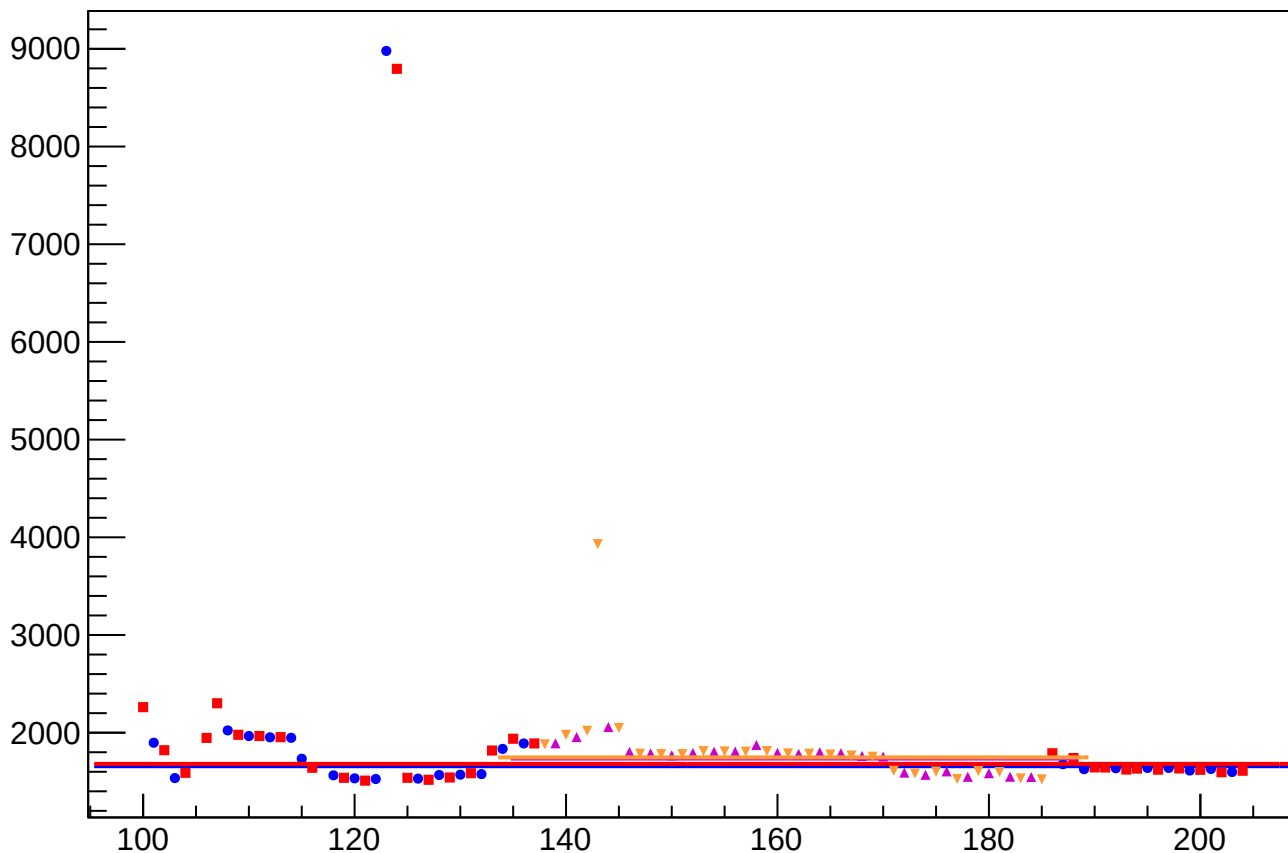
Right: -433.467 ± 328.794 χ^2/NDF : 48.7/54

In: -481.923 ± 314.877 χ^2/NDF : 21.6/47

Out: -213.889 ± 304.263 χ^2/NDF : 70.6/54

All: -343.312 ± 218.803 χ^2/NDF : 92.6/102

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.047+/-0.339 χ^2/NDF : 202490.1/24

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1680.874+/-0.319 χ^2/NDF : 420910.9/29

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

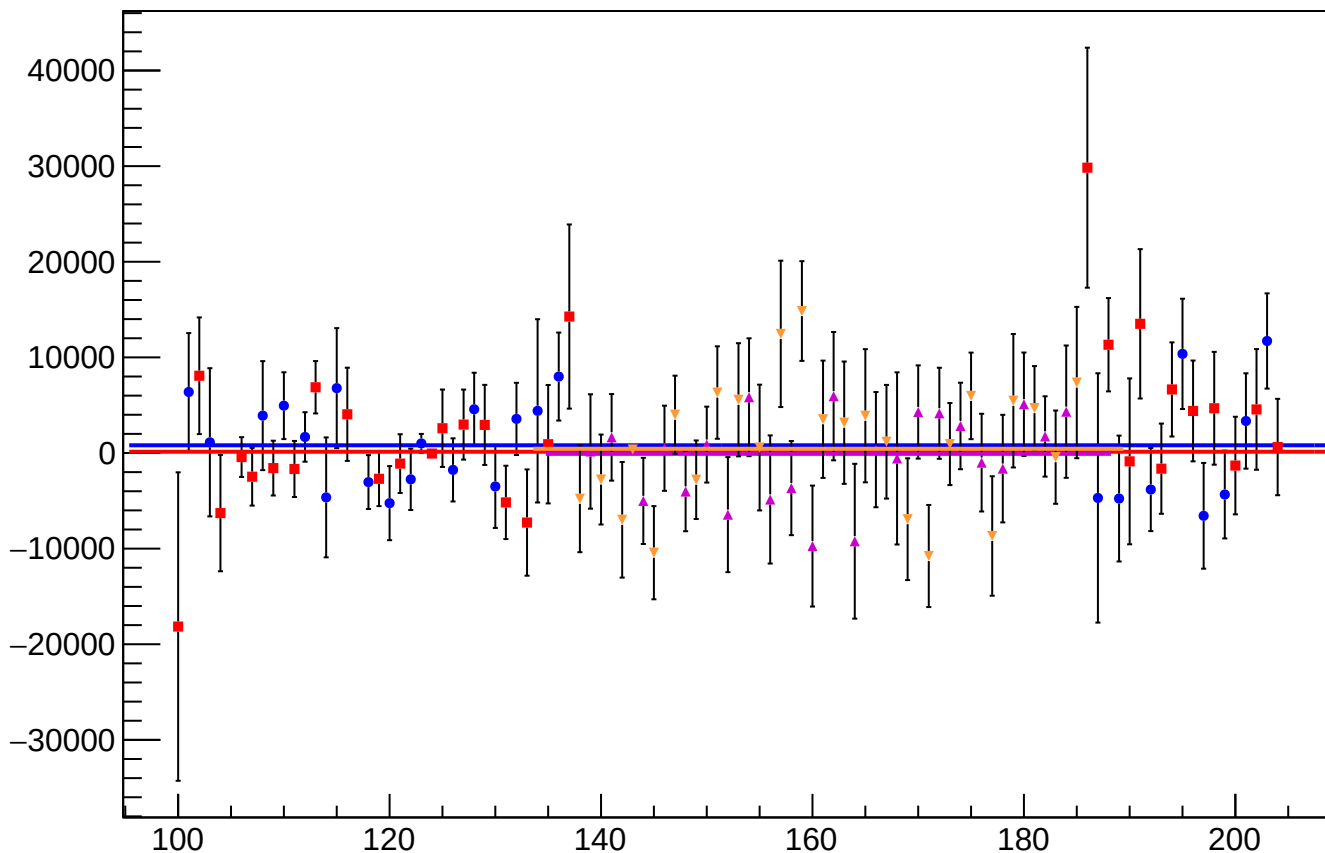
Right: 1669.686+/-0.232 χ^2/NDF : 626022.8/54

In: 1701.664+/-0.223 χ^2/NDF : 439746.0/47

Out: 1717.129+/-0.215 χ^2/NDF : 1142793.9/54

All: 1709.669+/-0.155 χ^2/NDF : 1585037.0/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 807.143+/-663.105 χ^2/NDF : 28.4/24

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 132.862+/-349.970 χ^2/NDF : 38.5/29

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

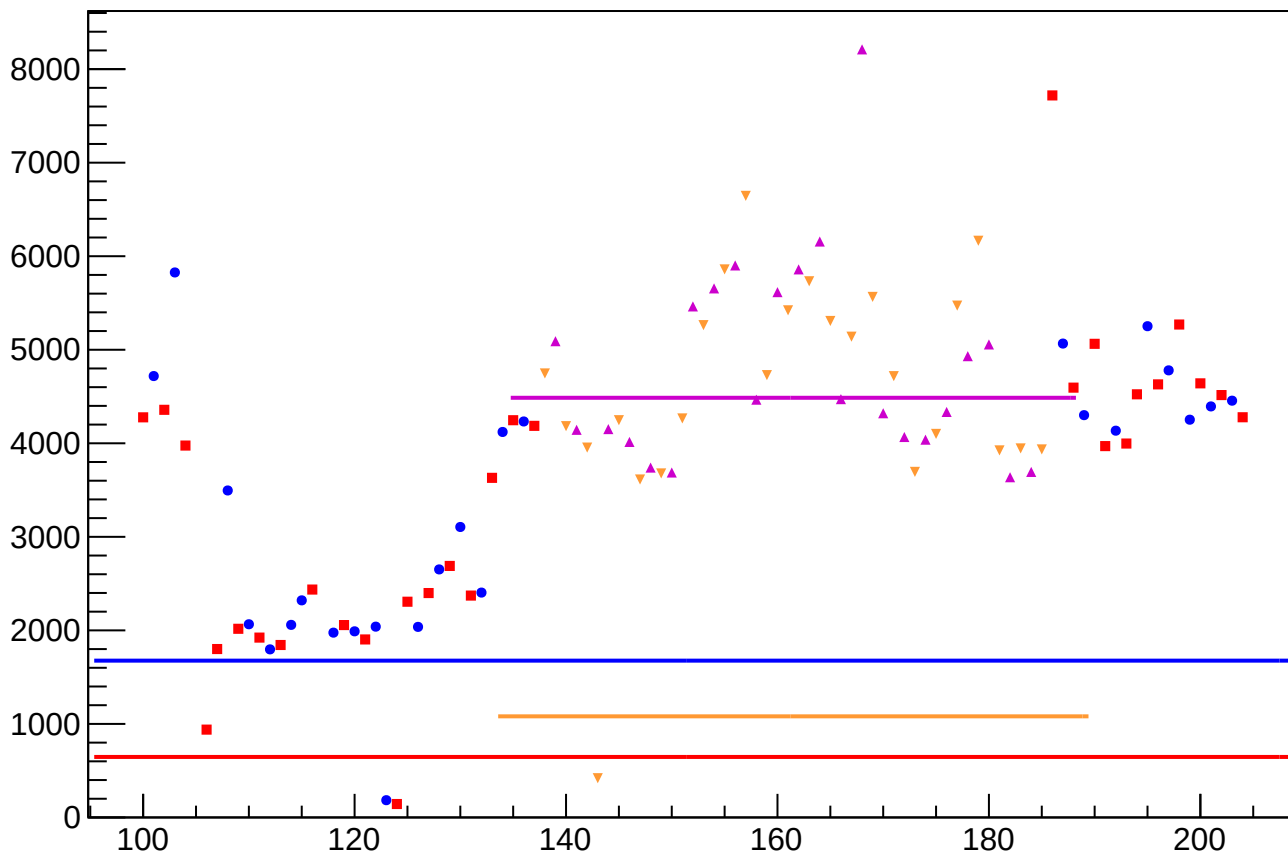
Right: 279.762+/-309.509 χ^2/NDF : 67.8/54

In: 566.768+/-567.186 χ^2/NDF :42.4/47

Out: 252.612+/-273.977 χ^2/NDF :72.7/54

All: 312.047+/-246.702 χ^2/NDF : 115.3/102

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1676.448 $\pm$ 0.469

χ^2 /NDF: 11430568.2/24

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right Out: 646.911 $\pm$ 0.247

χ^2 /NDF: 21011278.5/29

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Right: 871.208 $\pm$ 0.219

χ^2 /NDF: 36212641.3/54

In: 2430.629 $\pm$ 0.401

χ^2 /NDF: 22251920.7/47

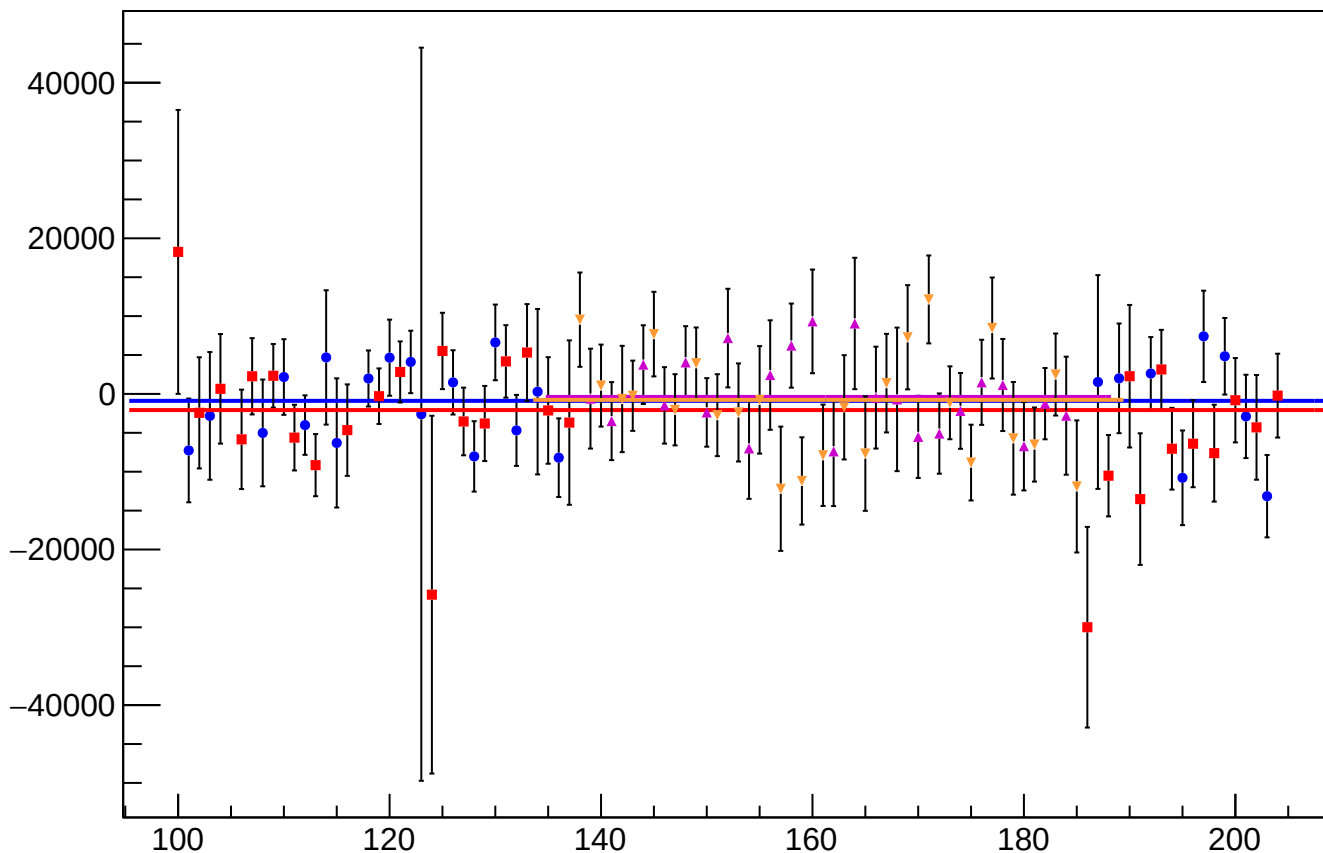
Out: 814.963 $\pm$ 0.194

χ^2 /NDF: 46658751.3/54

All: 1120.630 $\pm$ 0.174

χ^2 /NDF: 82069051.1/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -892.114 ± 1076.357 $\chi^2/\text{NDF}: 27.0/24$

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

Right Out: -2078.385 ± 1003.592 $\chi^2/\text{NDF}: 29.4/29$

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

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

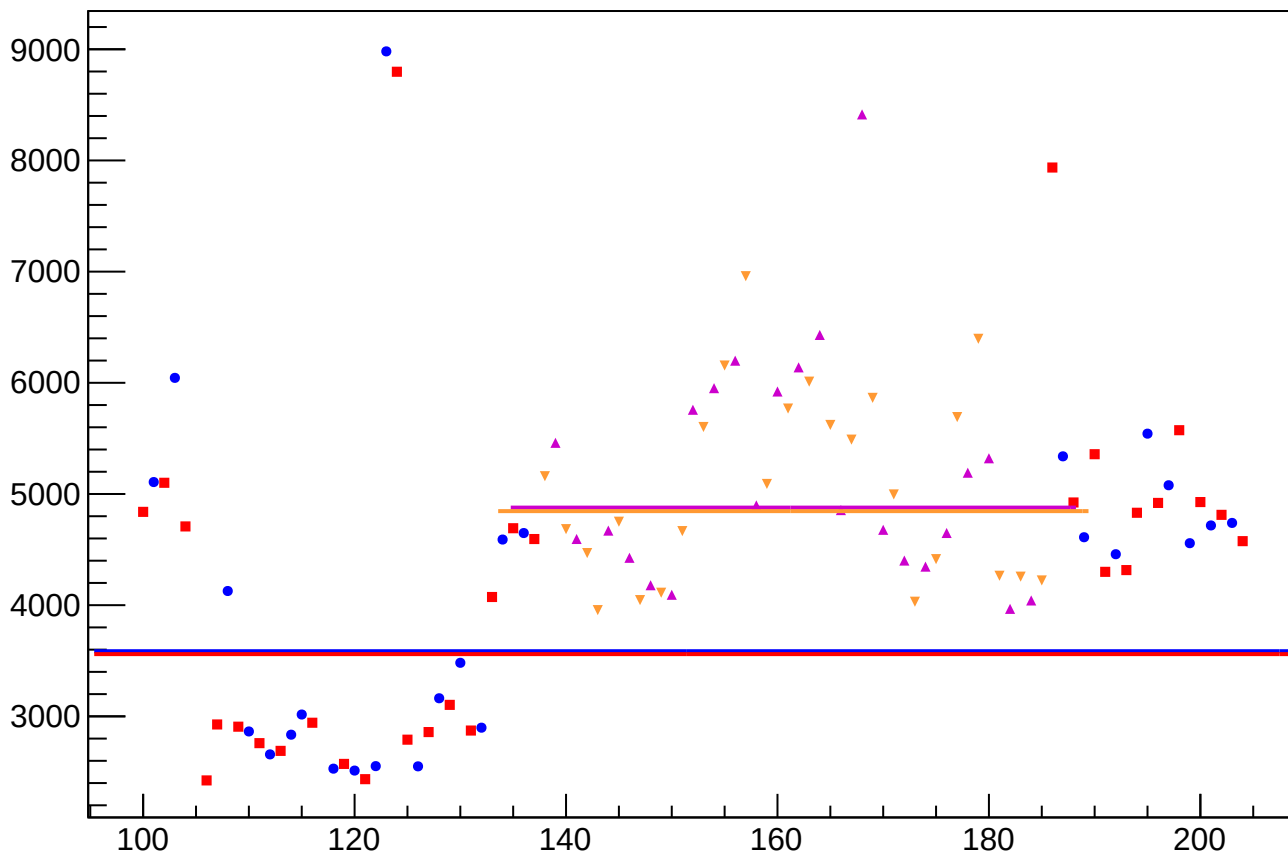
Right: -1526.699 ± 734.024 $\chi^2/\text{NDF}: 57.0/54$

In: -664.920 ± 797.141 $\chi^2/\text{NDF}: 41.2/47$

Out: -1509.531 ± 755.397 $\chi^2/\text{NDF}: 60.1/54$

All: -1109.919 ± 548.310 $\chi^2/\text{NDF}: 101.9/102$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3585.920+/-0.761 χ^2/NDF : 1948041.4/24

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3559.705+/-0.703 χ^2/NDF : 2425224.9/29

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

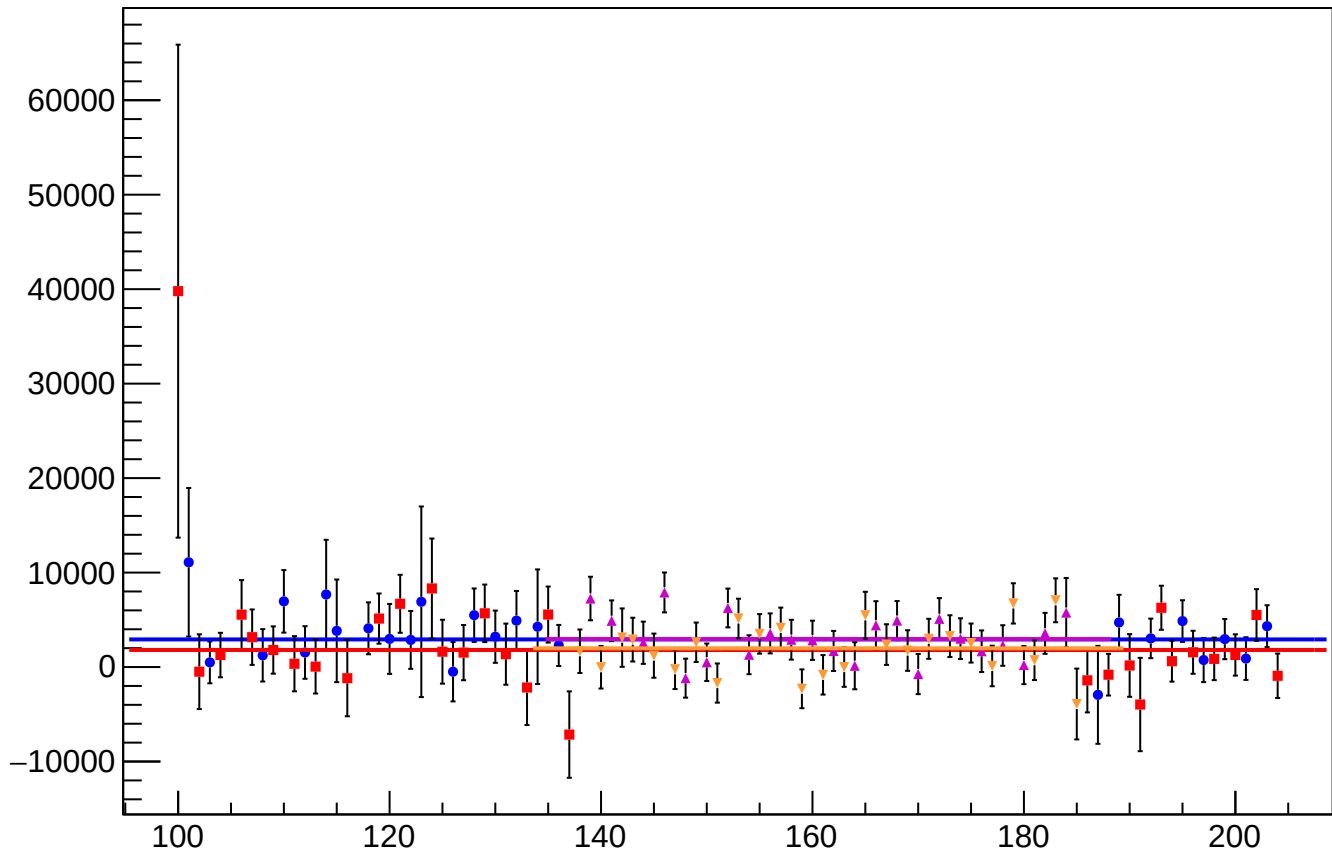
Right: 3571.780+/-0.517 χ^2/NDF : 4373906.2/54

In: 4169.077+/-0.564 χ^2/NDF : 4206871.9/47

Out: 4111.525+/-0.531 χ^2/NDF : 4769009.2/54

All: 4138.609+/-0.387 χ^2/NDF : 8981400.2/10

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2925.414+/-572.869 χ^2/NDF : 12.5/24

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1807.348+/-530.728 χ^2/NDF : 30.0/29

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

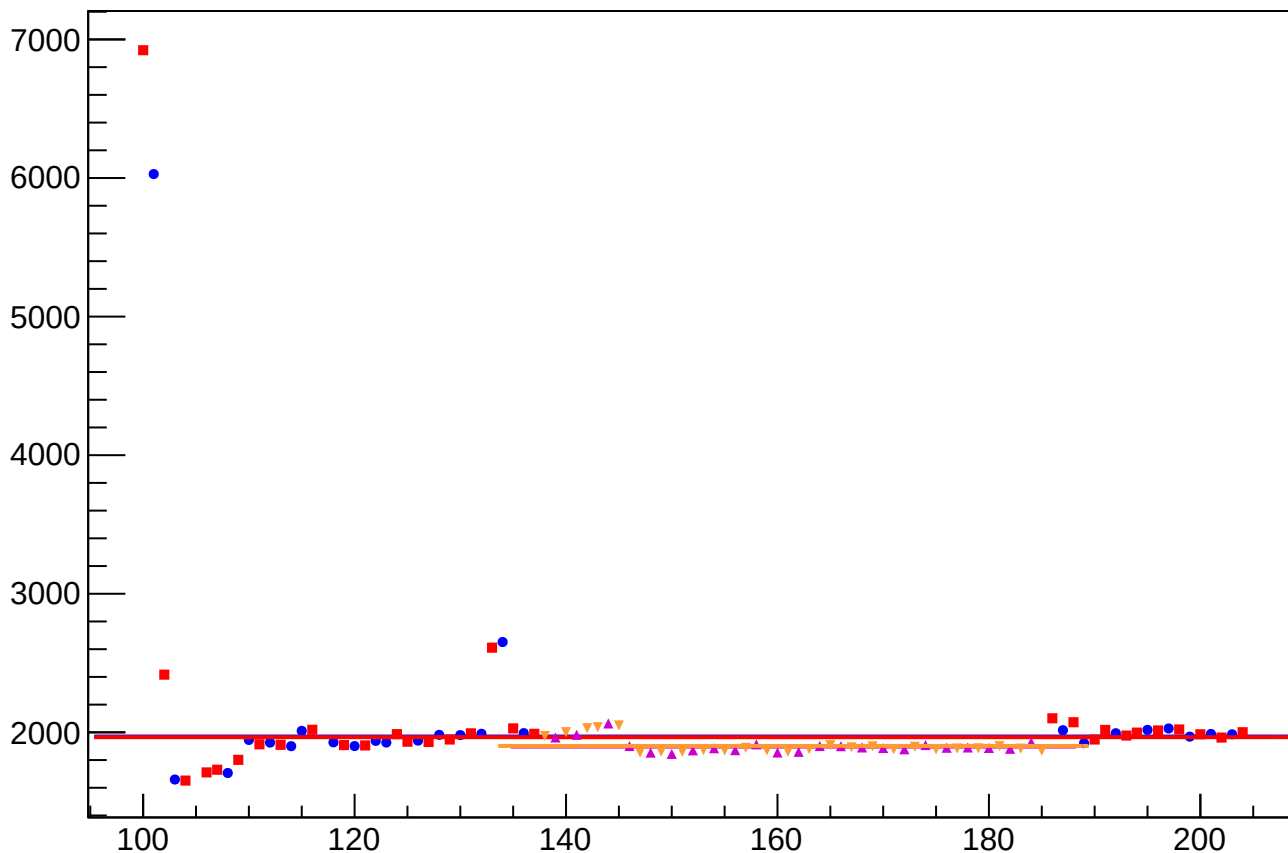
Right: 2323.750+/-389.328 χ^2/NDF : 44.5/54

In: 2944.122+/-356.077 χ^2/NDF : 40.9/47

Out: 1912.290+/-340.179 χ^2/NDF : 62.5/54

All: 2404.658+/-245.971 χ^2/NDF : 107.8/102

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1969.638+/-0.405 χ^2/NDF : 621799.8/24

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1965.008+/-0.375 χ^2/NDF : 235235.0/29

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

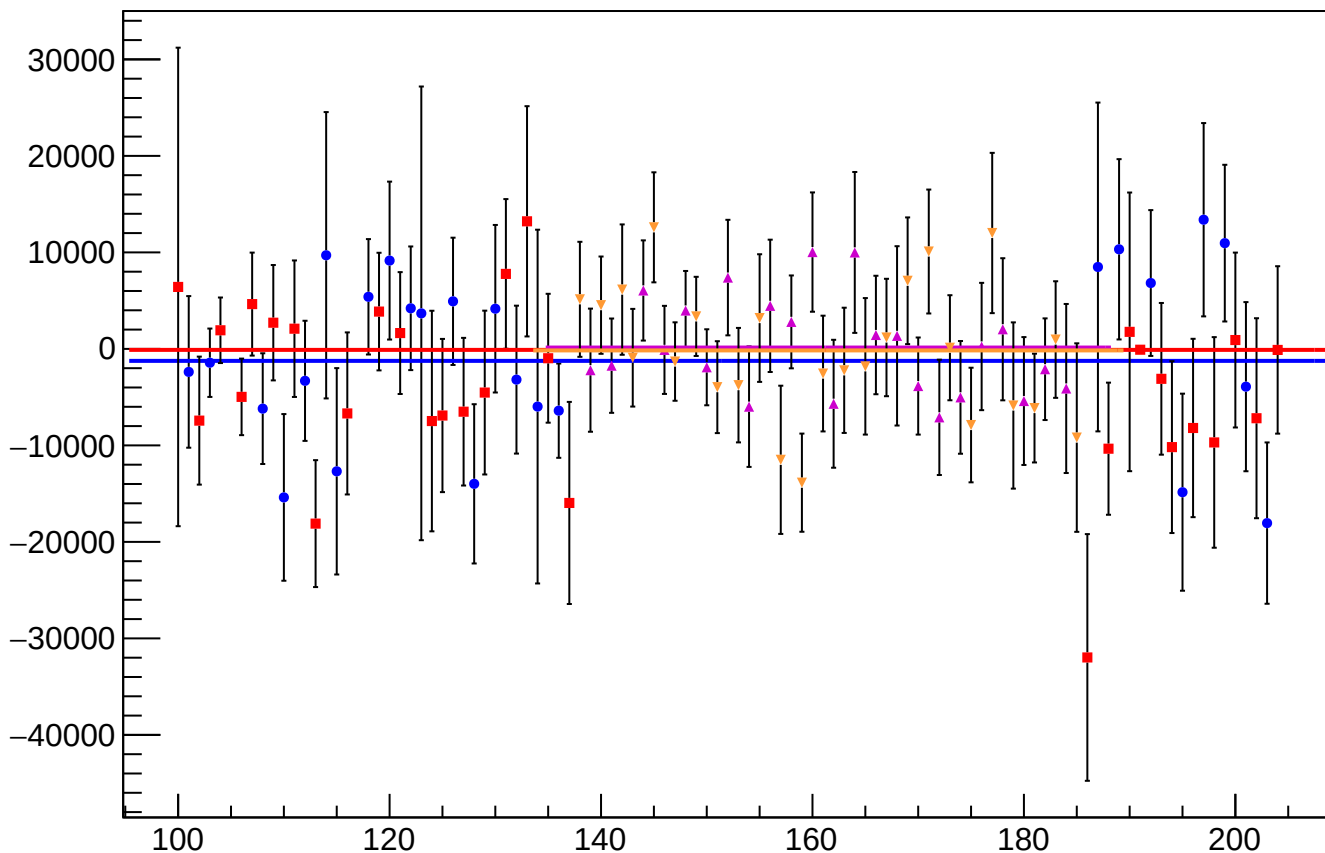
Right: 1967.144+/-0.275 χ^2/NDF : 857105.2/54

In: 1925.343+/-0.252 χ^2/NDF : 662464.8/47

Out: 1927.854+/-0.240 χ^2/NDF : 282374.7/54

All: 1926.657+/-0.174 χ^2/NDF : 944891.5/102

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1241.620 $\pm$ 1482.165 χ^2 /NDF: 27.1/24

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

Right Out: -102.884 $\pm$ 109.570 χ^2 /NDF: 31.5/29

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

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

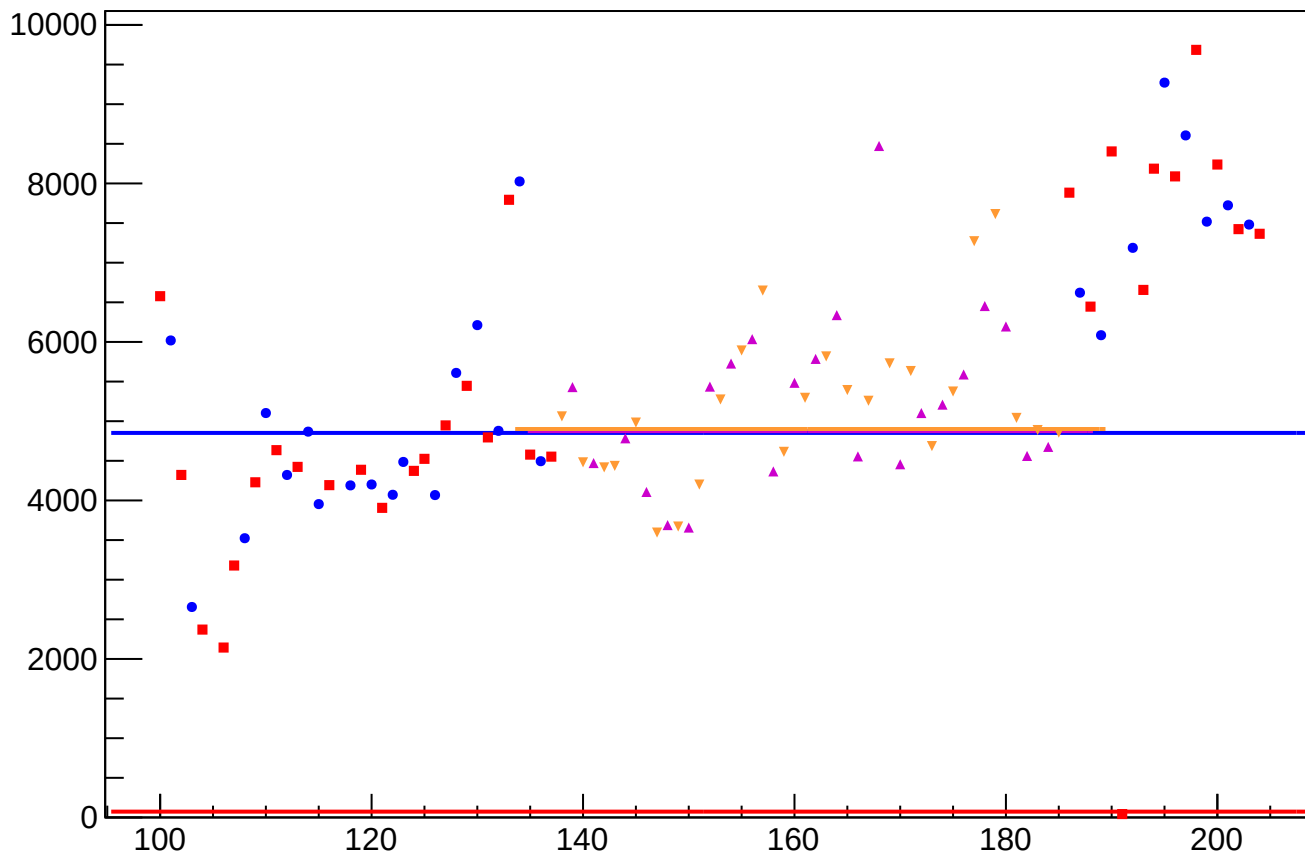
Right: -109.073 $\pm$ 109.271 χ^2 /NDF: 59.2/54

In: -402.633 $\pm$ 928.351 χ^2 /NDF:42.3/47

Out: -103.362 $\pm$ 109.089 χ^2 /NDF:61.0/54

All: -107.438 $\pm$ 108.343 χ^2 /NDF: 103.4/102

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4852.124+/-1.048 χ^2/NDF : 2714167.9/24

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 73.494+/-0.077 χ^2/NDF : 26834043.5/29

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

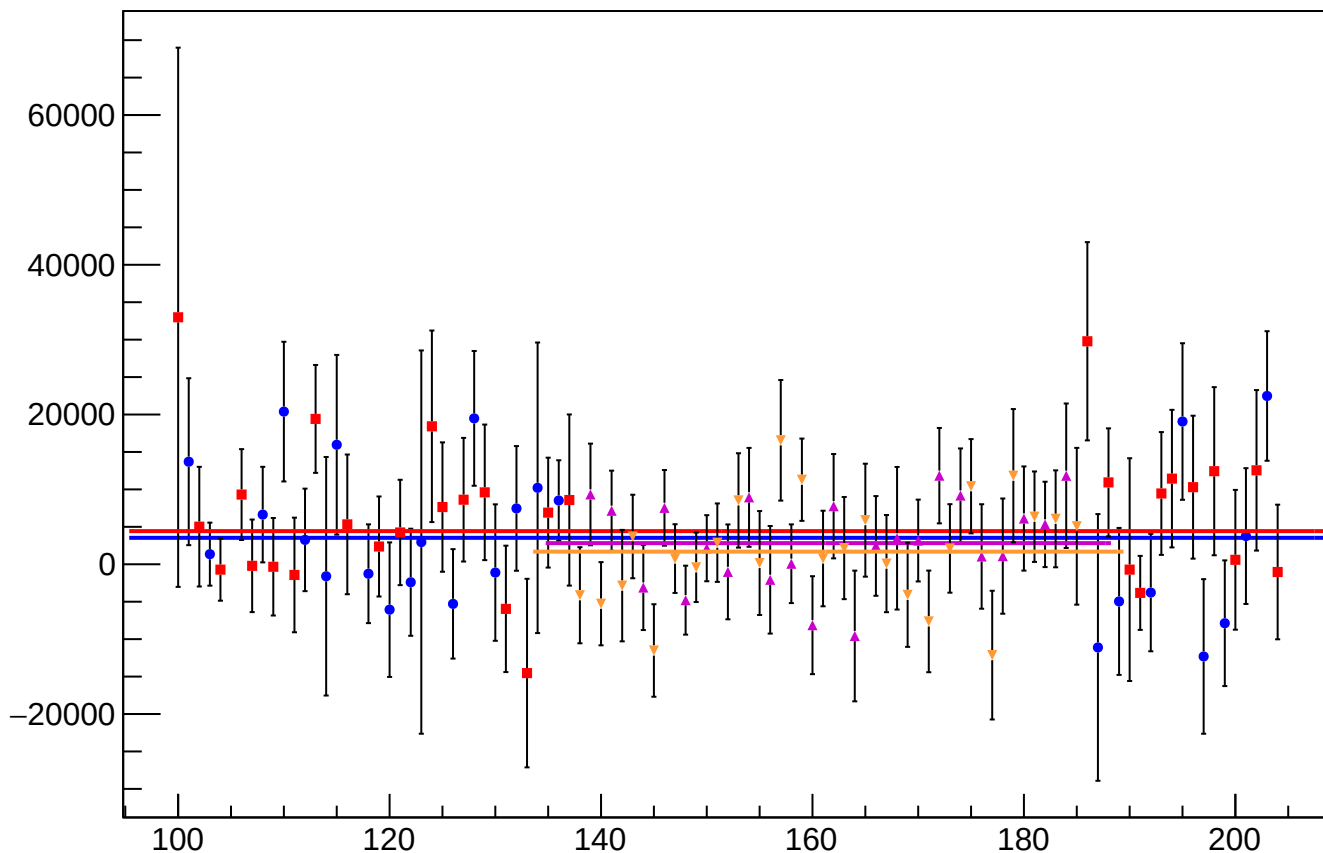
Right: 99.467+/-0.077 χ^2/NDF : 50224696.1/54

In: 4866.094+/-0.656 χ^2/NDF : 3943658.3/47

Out: 115.764+/-0.077 χ^2/NDF : 61967869.6/54

All: 180.464+/-0.077 χ^2/NDF : 117564777.2/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3533.178+/-1639.320 χ^2/NDF : 27.7/24

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4428.493+/-1438.453 χ^2/NDF : 25.2/29

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

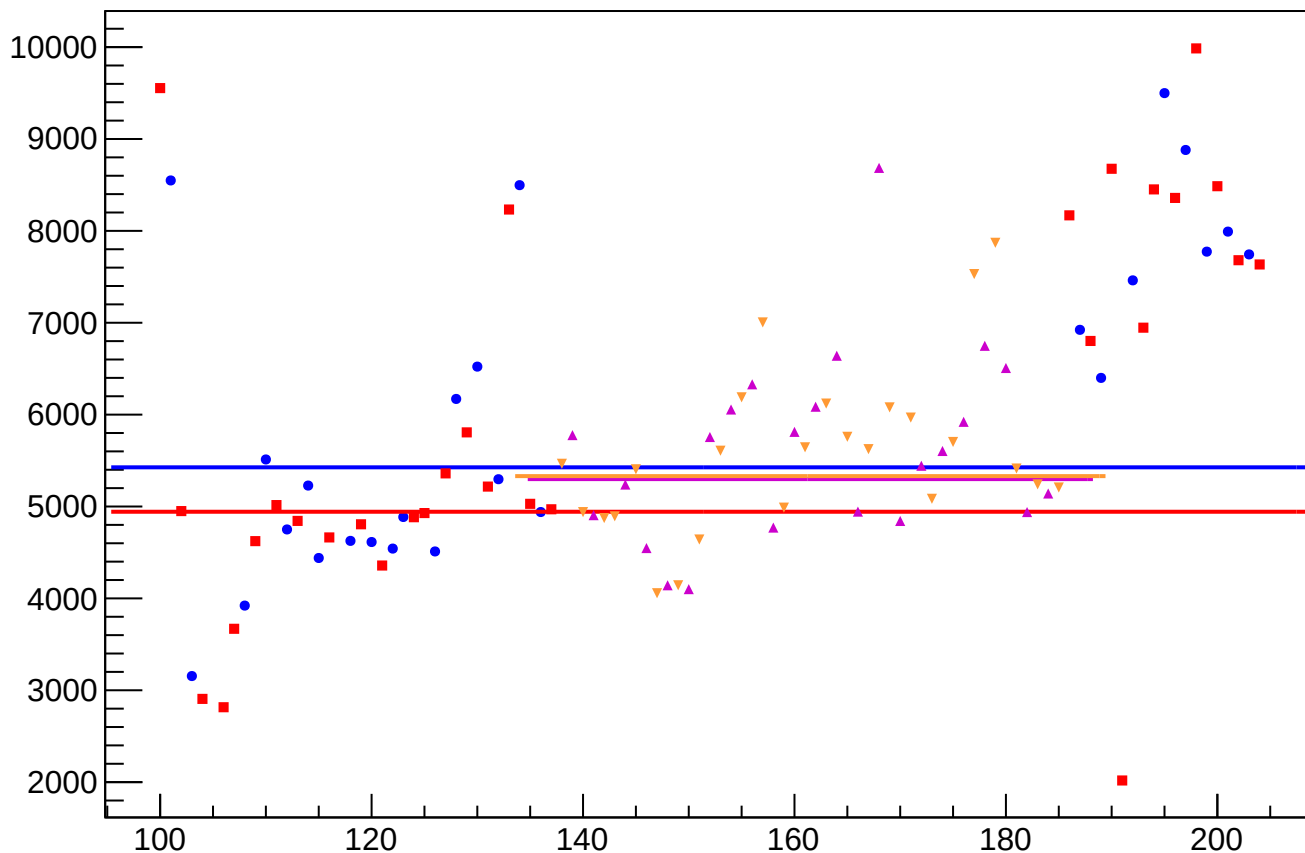
Right: 4039.019+/-1081.222 χ^2/NDF : 53.1/54

In: 3094.842+/-1012.991 χ^2/NDF : 45.8/47

Out: 2878.735+/-948.506 χ^2/NDF : 52.7/54

All: 2979.692+/-692.370 χ^2/NDF : 98.5/102

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5426.469+/-1.159 χ^2/NDF : 2258571.0/24

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 4943.037+/-1.013 χ^2/NDF : 3811068.9/29

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

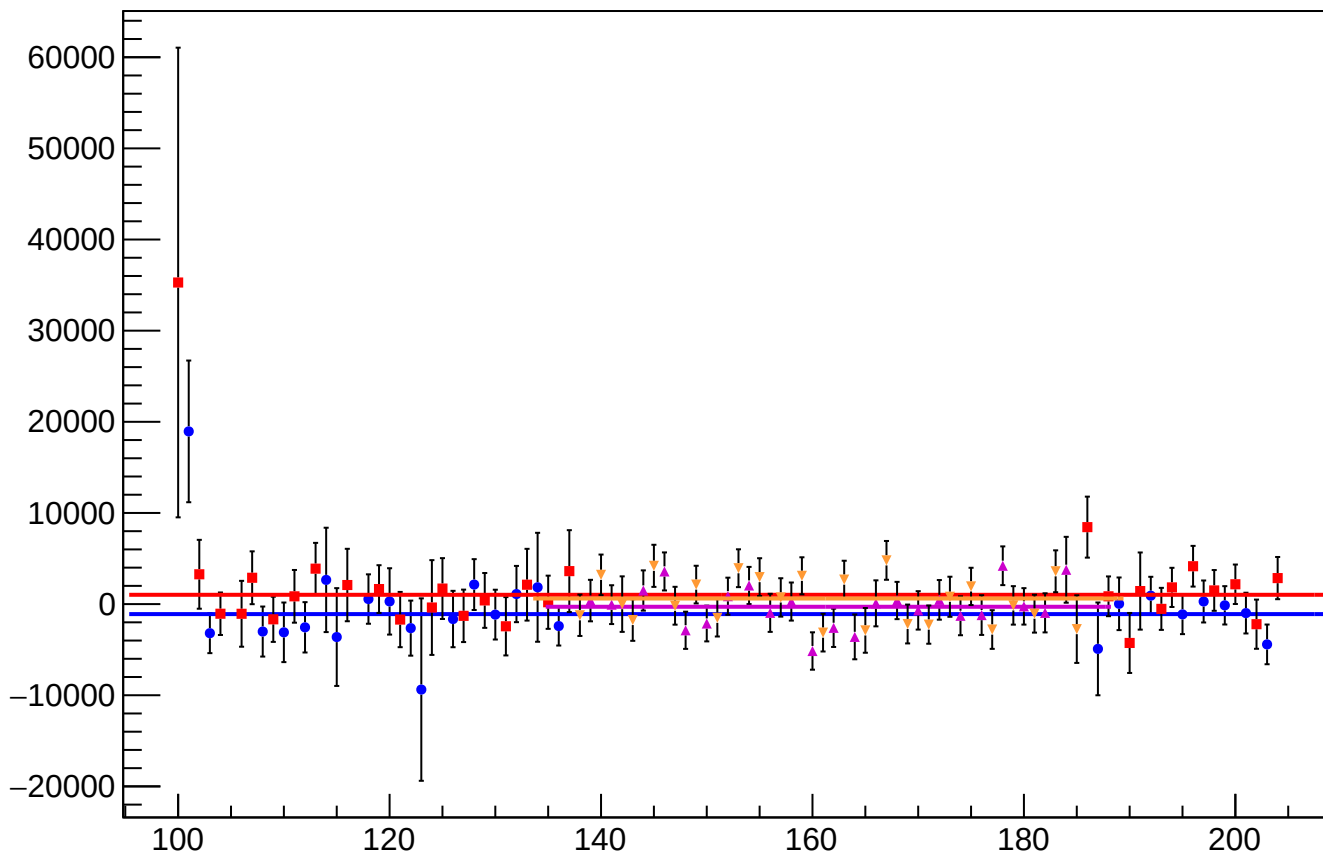
Right: 5152.378+/-0.763 χ^2/NDF : 6168252.5/54

In: 5347.258+/-0.716 χ^2/NDF : 3222146.5/47

Out: 5161.389+/-0.670 χ^2/NDF : 4761617.0/54

All: 5248.057+/-0.489 χ^2/NDF : 8019700.6/100

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1097.167 ± 565.440 $\chi^2/\text{NDF}: 17.9/24$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 1020.991 ± 523.149 $\chi^2/\text{NDF}: 21.7/29$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

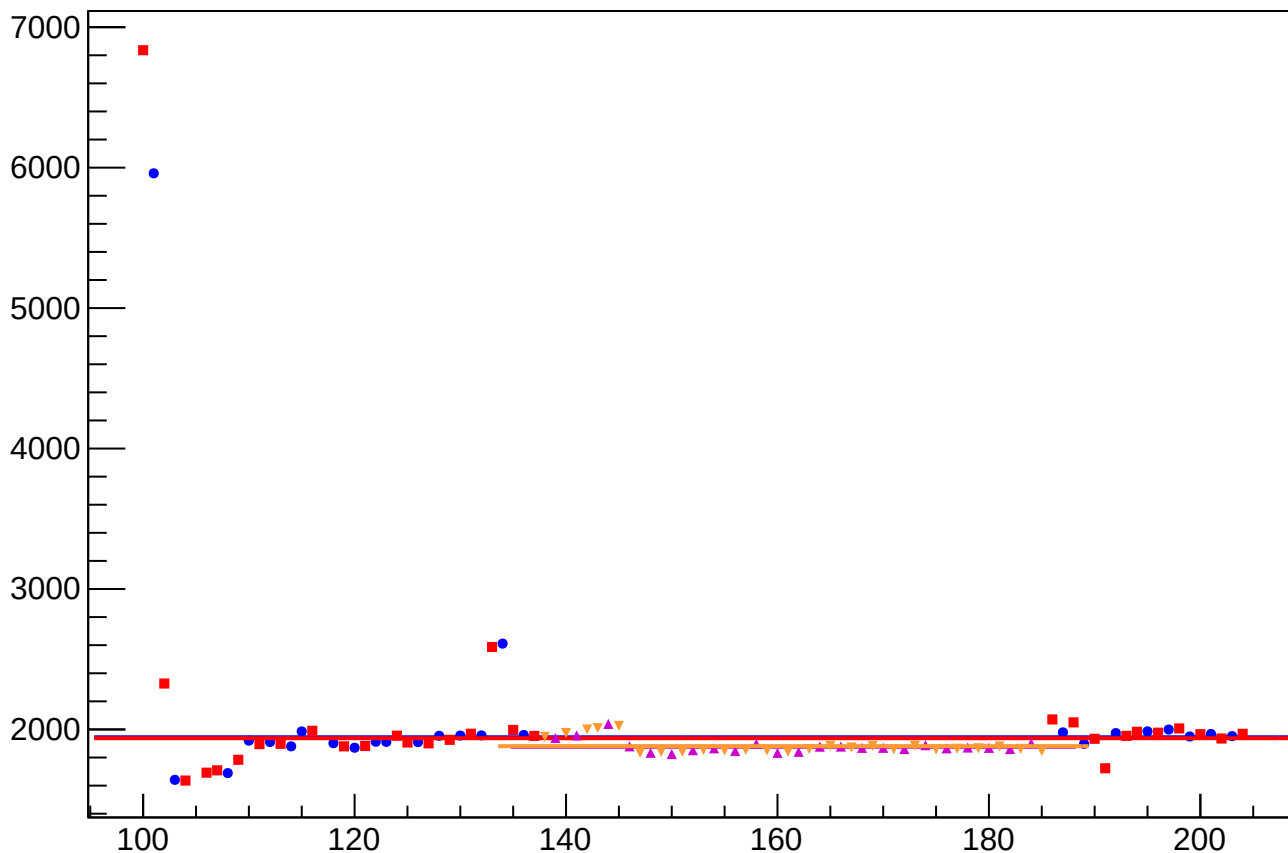
Right: 44.077 ± 384.004 $\chi^2/\text{NDF}: 47.2/54$

In: -604.473 ± 351.901 $\chi^2/\text{NDF}: 42.8/47$

Out: 780.849 ± 335.954 $\chi^2/\text{NDF}: 54.8/54$

All: 120.286 ± 242.997 $\chi^2/\text{NDF}: 105.6/102$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1944.186+/-0.400 χ^2/NDF : 620136.6/24

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1937.495+/-0.369 χ^2/NDF : 234164.3/29

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

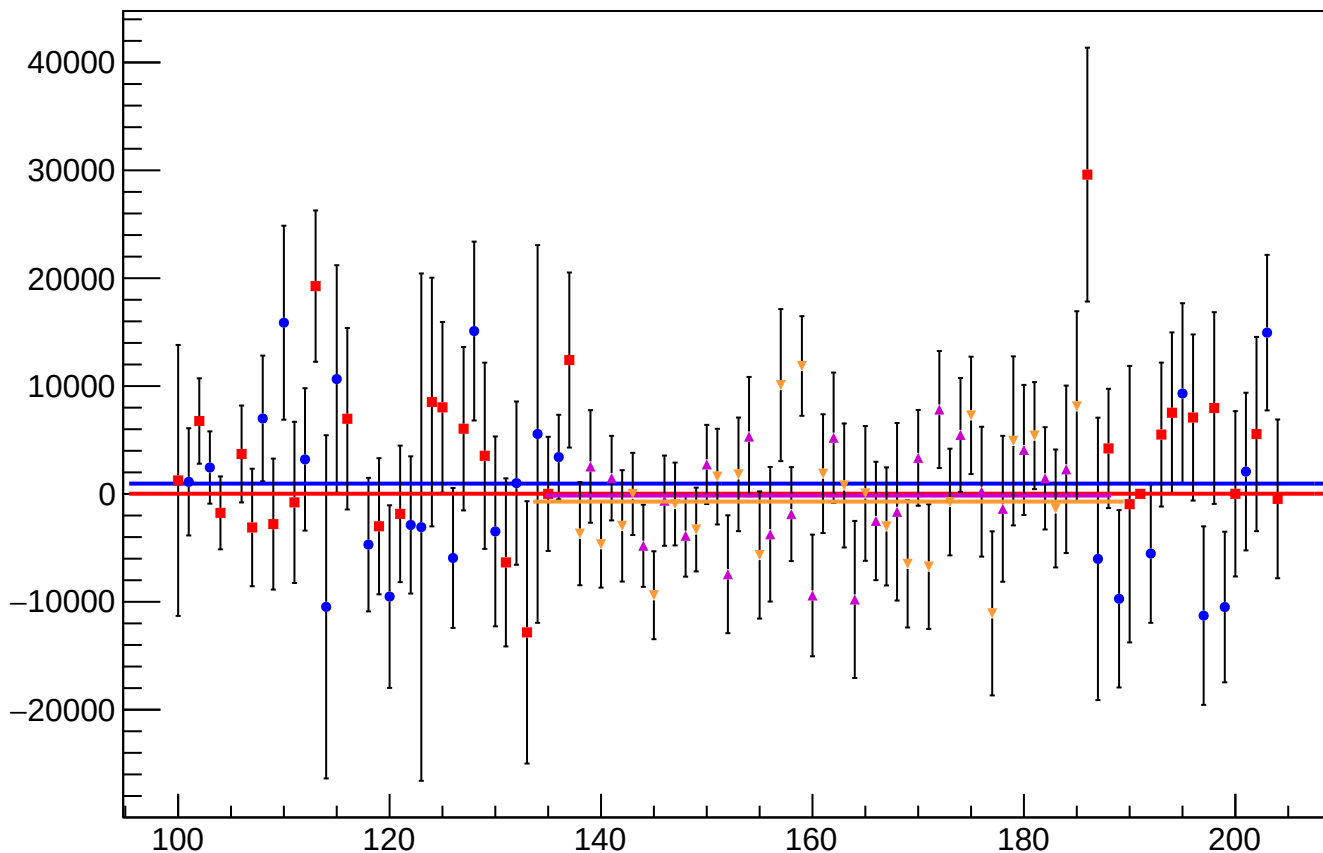
Right: 1940.577+/-0.271 χ^2/NDF : 854452.0/54

In: 1902.829+/-0.249 χ^2/NDF : 658099.2/47

Out: 1904.217+/-0.237 χ^2/NDF : 276637.1/54

All: 1903.556+/-0.172 χ^2/NDF : 934752.5/102

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 958.492 ± 1356.807 χ^2/NDF : 25.7/24

Left Out: -707.785 ± 1017.719 χ^2/NDF : 27.1/24

Right Out: 22.836 ± 85.804 χ^2/NDF : 30.1/29

Left In: -150.495 ± 1053.655 χ^2/NDF : 16.9/22

Left: -438.806 ± 732.011 χ^2/NDF : 44.2/47

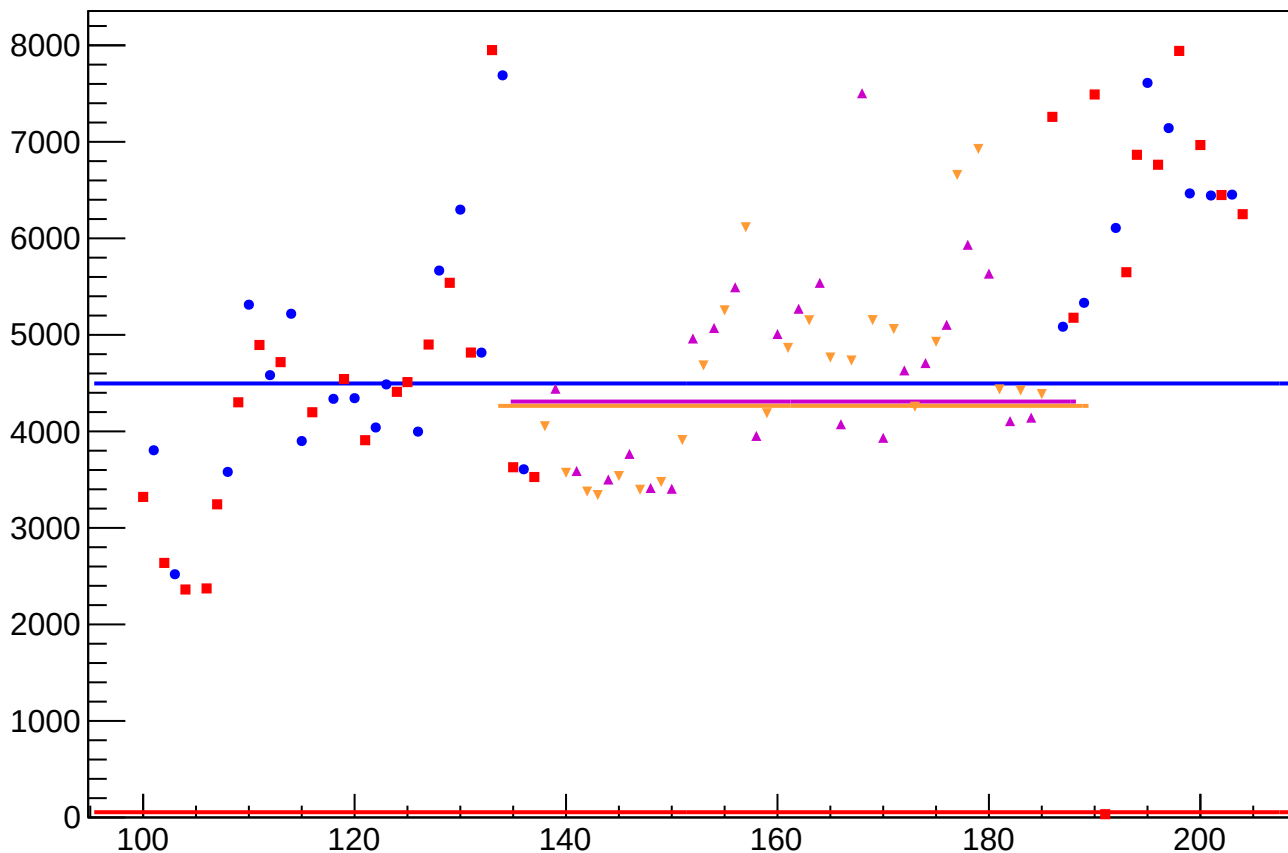
Right: 26.563 ± 85.633 χ^2/NDF : 56.2/54

In: 266.698 ± 832.192 χ^2/NDF : 43.0/47

Out: 17.679 ± 85.501 χ^2/NDF : 57.7/54

All: 20.280 ± 85.053 χ^2/NDF : 100.8/102

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4496.451 $\pm$ 0.959 χ^2 /NDF: 2213054.3/24

Left Out: 4264.433 $\pm$ 0.720 χ^2 /NDF: 1354900.8/24

Right Out: 54.331 $\pm$ 0.061 χ^2 /NDF: 26977567.1/29

Left In: 4309.034 $\pm$ 0.745 χ^2 /NDF: 1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2 /NDF: 2661888.1/47

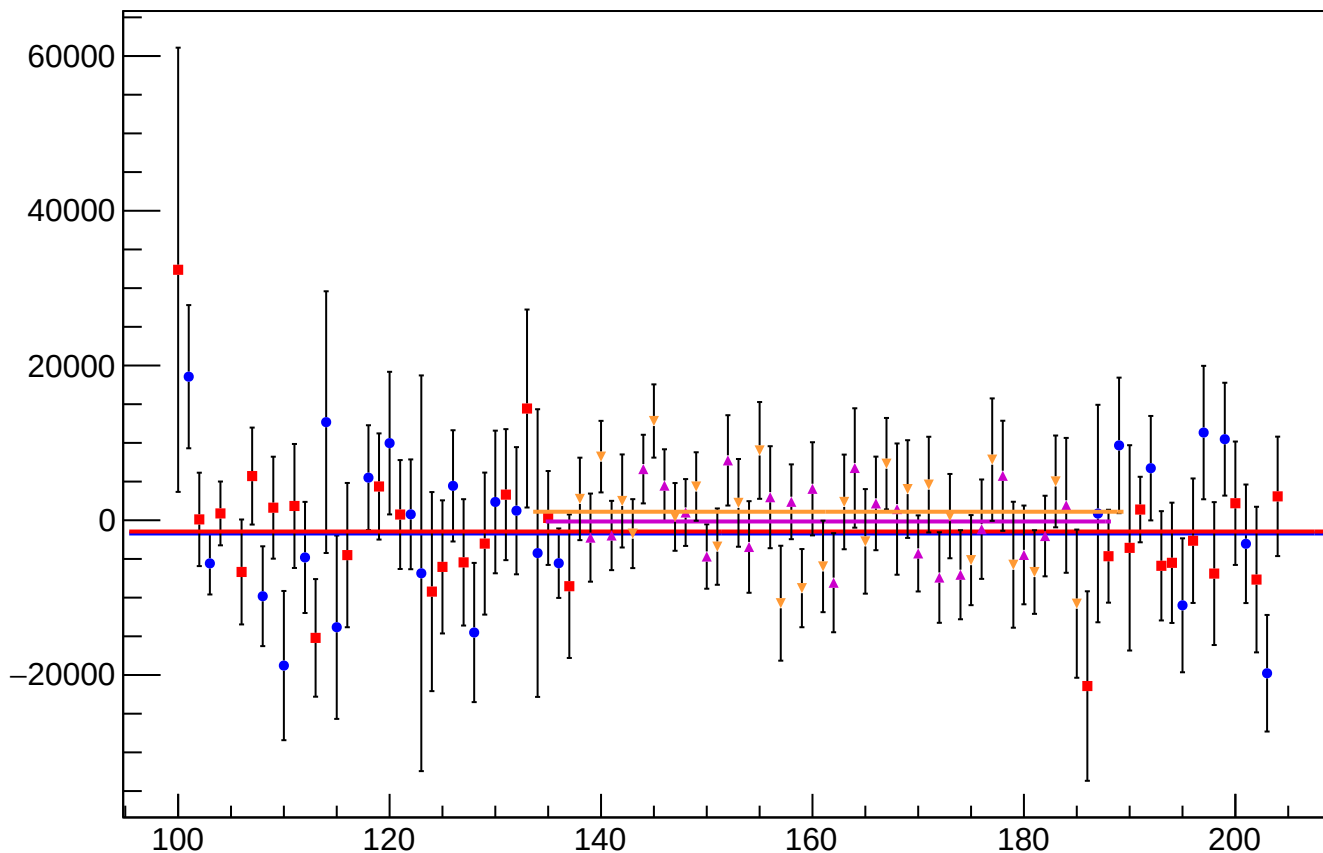
Right: 72.026 $\pm$ 0.061 χ^2 /NDF: 50542737.5/54

In: 4379.539 $\pm$ 0.588 χ^2 /NDF: 3541992.4/47

Out: 84.046 $\pm$ 0.060 χ^2 /NDF: 62317159.7/54

All: 128.915 $\pm$ 0.060 χ^2 /NDF: 118588030.9/54

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1708.866 ± 1535.005 $\chi^2/\text{NDF}: 34.4/24$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1455.058 ± 1345.631 $\chi^2/\text{NDF}: 17.1/29$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

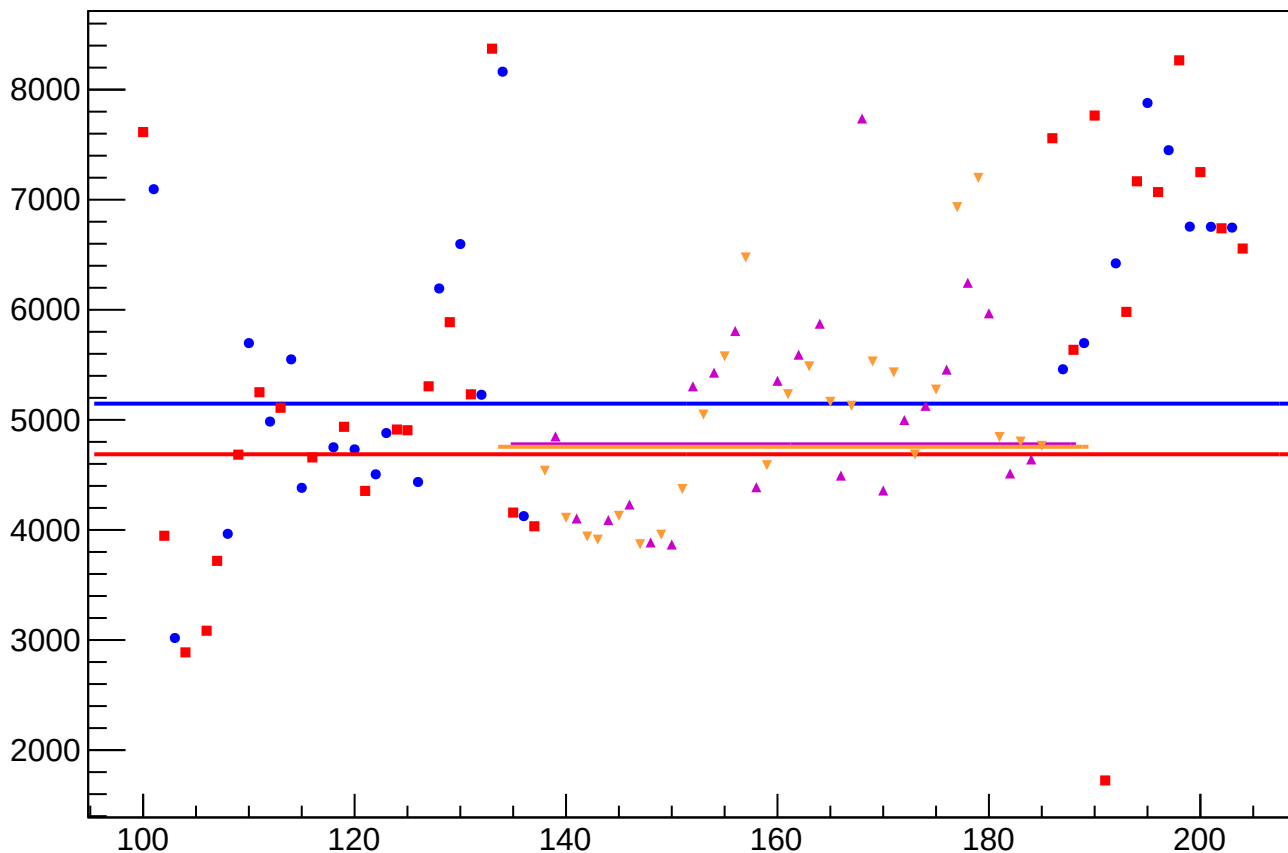
Right: -1565.349 ± 1011.873 $\chi^2/\text{NDF}: 51.6/54$

In: -723.098 ± 926.228 $\chi^2/\text{NDF}: 50.6/47$

Out: 48.303 ± 863.850 $\chi^2/\text{NDF}: 47.8/54$

All: -310.549 ± 631.736 $\chi^2/\text{NDF}: 98.8/102$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5147.364 ± 1.085 $\chi^2/\text{NDF}: 1711136.1/24$

Left Out: 4755.383 ± 0.797 $\chi^2/\text{NDF}: 953328.0/24$

Right Out: 4687.456 ± 0.948 $\chi^2/\text{NDF}: 3294299.5/29$

Left In: 4777.831 ± 0.821 $\chi^2/\text{NDF}: 950291.2/22$

Left: 4766.265 ± 0.572 $\chi^2/\text{NDF}: 1904004.1/47$

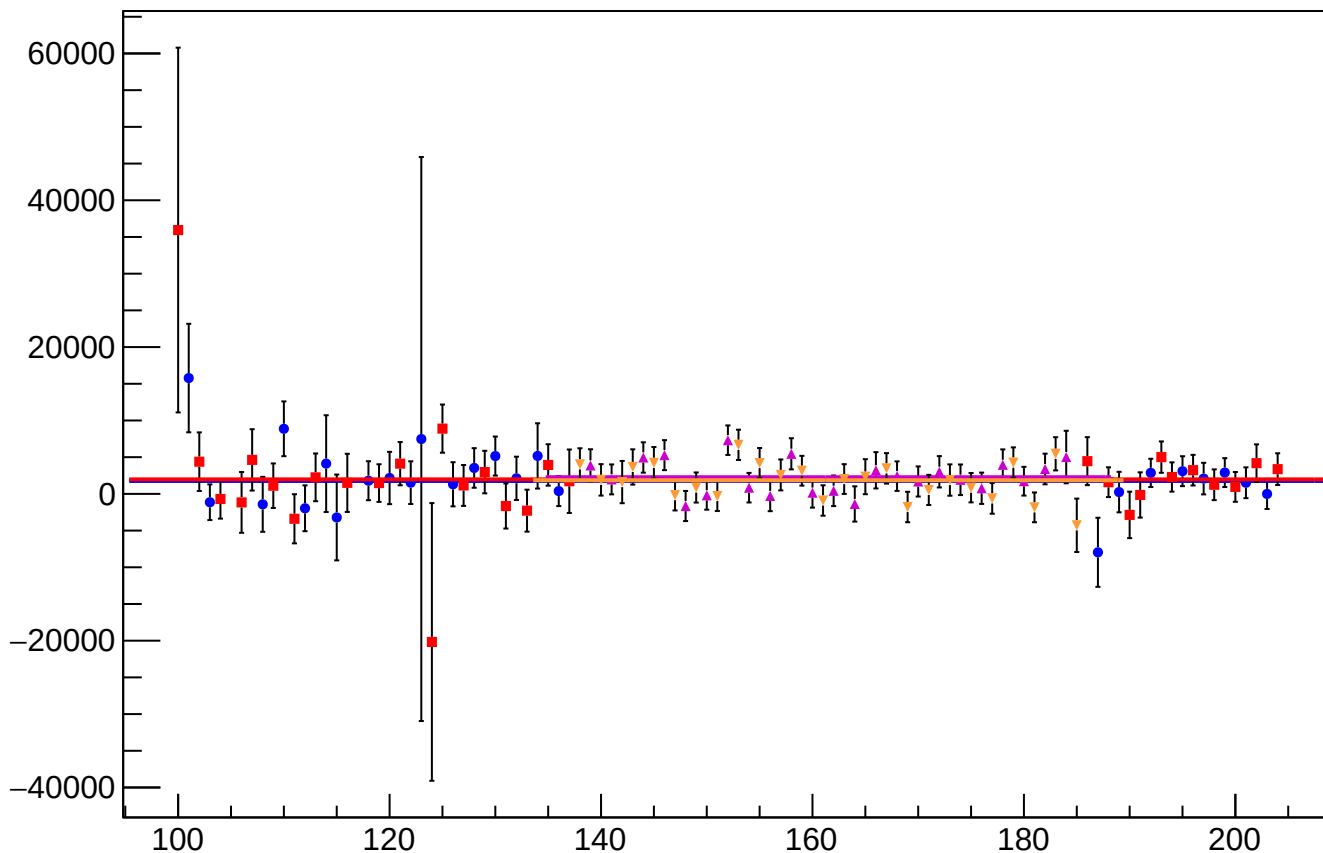
Right: 4886.508 ± 0.714 $\chi^2/\text{NDF}: 5107267.4/54$

In: 4912.376 ± 0.655 $\chi^2/\text{NDF}: 2735134.5/47$

Out: 4727.273 ± 0.610 $\chi^2/\text{NDF}: 4250636.0/54$

All: 4813.248 ± 0.446 $\chi^2/\text{NDF}: 7028547.4/100$

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1764.757+/-554.880 χ^2/NDF : 21.3/24

Left Out: 1856.570+/-430.977 χ^2/NDF : 30.0/24

Right Out: 1975.489+/-514.766 χ^2/NDF : 24.9/29

Left In: 2268.464+/-441.710 χ^2/NDF : 26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

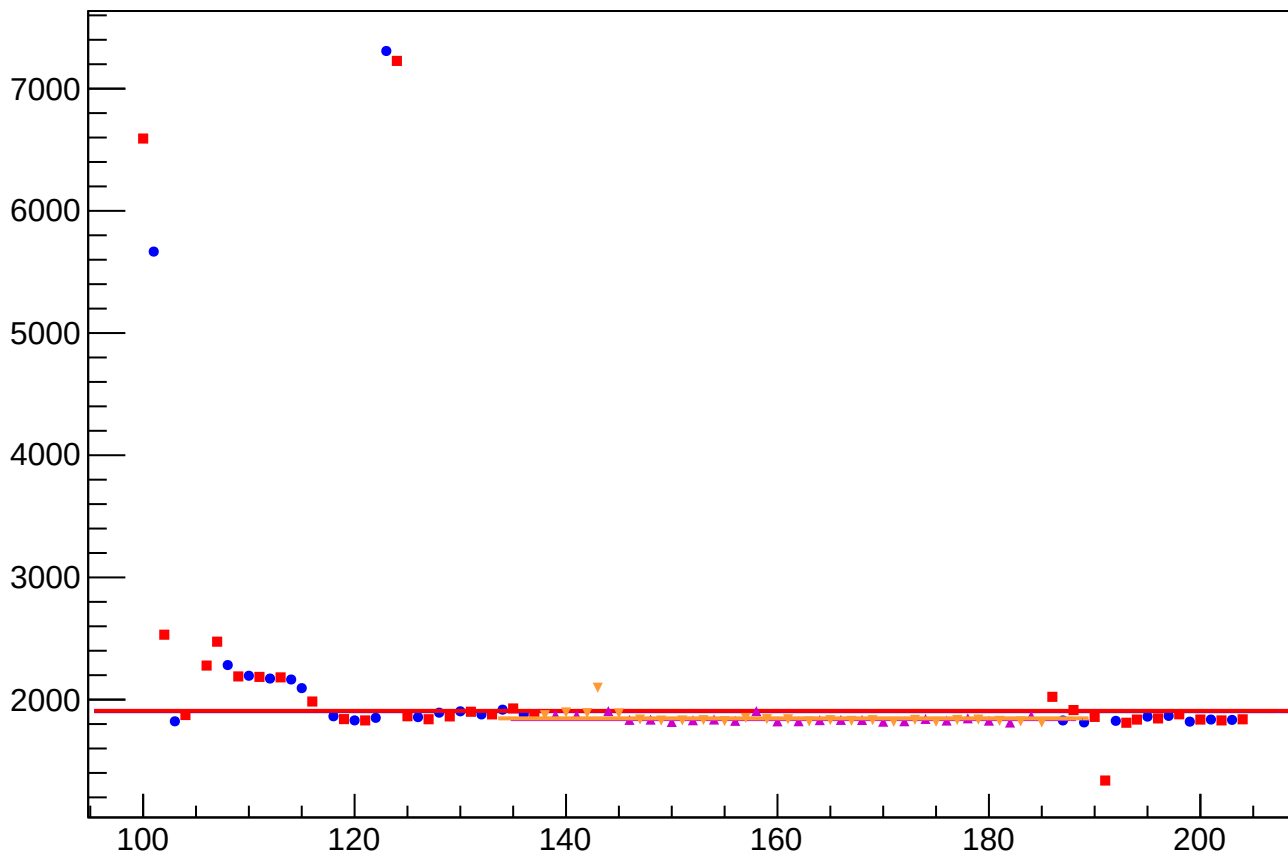
Right: 1878.014+/-377.380 χ^2/NDF : 46.3/54

In: 2073.082+/-345.583 χ^2/NDF : 48.6/47

Out: 1905.576+/-330.451 χ^2/NDF : 55.0/54

All: 1985.581+/-238.835 χ^2/NDF : 103.7/102

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1905.428+/-0.392 χ^2/NDF : 631113.6/24

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

Right Out: 1907.894+/-0.364 χ^2/NDF : 468938.0/29

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

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

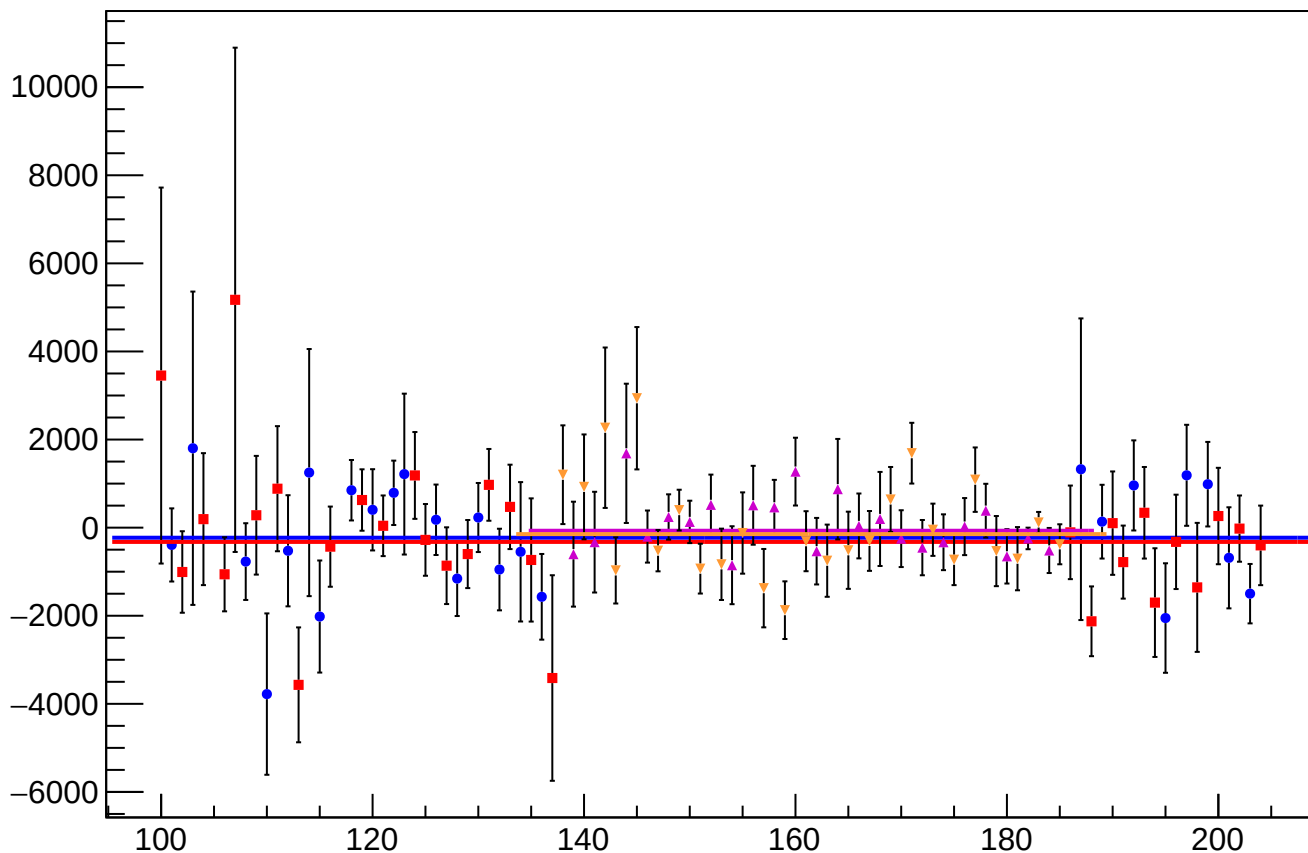
Right: 1906.753+/-0.267 χ^2/NDF : 1100072.7/54

In: 1865.710+/-0.244 χ^2/NDF : 654594.5/47

Out: 1871.860+/-0.234 χ^2/NDF : 512910.3/54

All: 1868.923+/-0.169 χ^2/NDF : 1167835.6/100

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -228.617 ± 199.577 χ^2/NDF : 27.4/24

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -323.855 ± 181.508 χ^2/NDF : 28.6/29

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

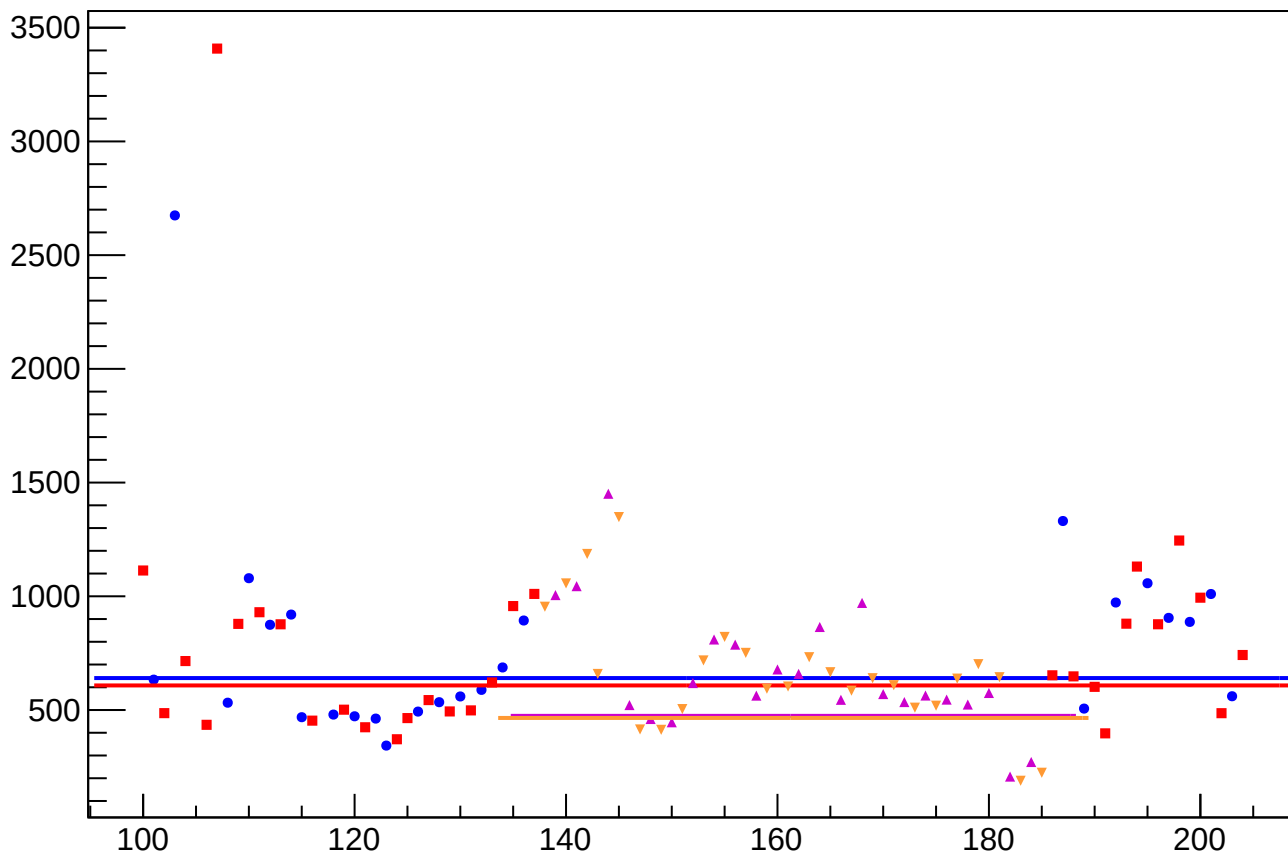
Right: -280.742 ± 134.280 χ^2/NDF : 56.1/54

In: -115.639 ± 106.769 χ^2/NDF : 40.1/47

Out: -202.025 ± 101.244 χ^2/NDF : 66.9/54

All: -161.124 ± 73.466 χ^2/NDF : 107.4/102

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 640.467+/-0.141 χ^2/NDF : 2580425.3/24

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 608.027+/-0.128 χ^2/NDF : 3087603.4/29

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

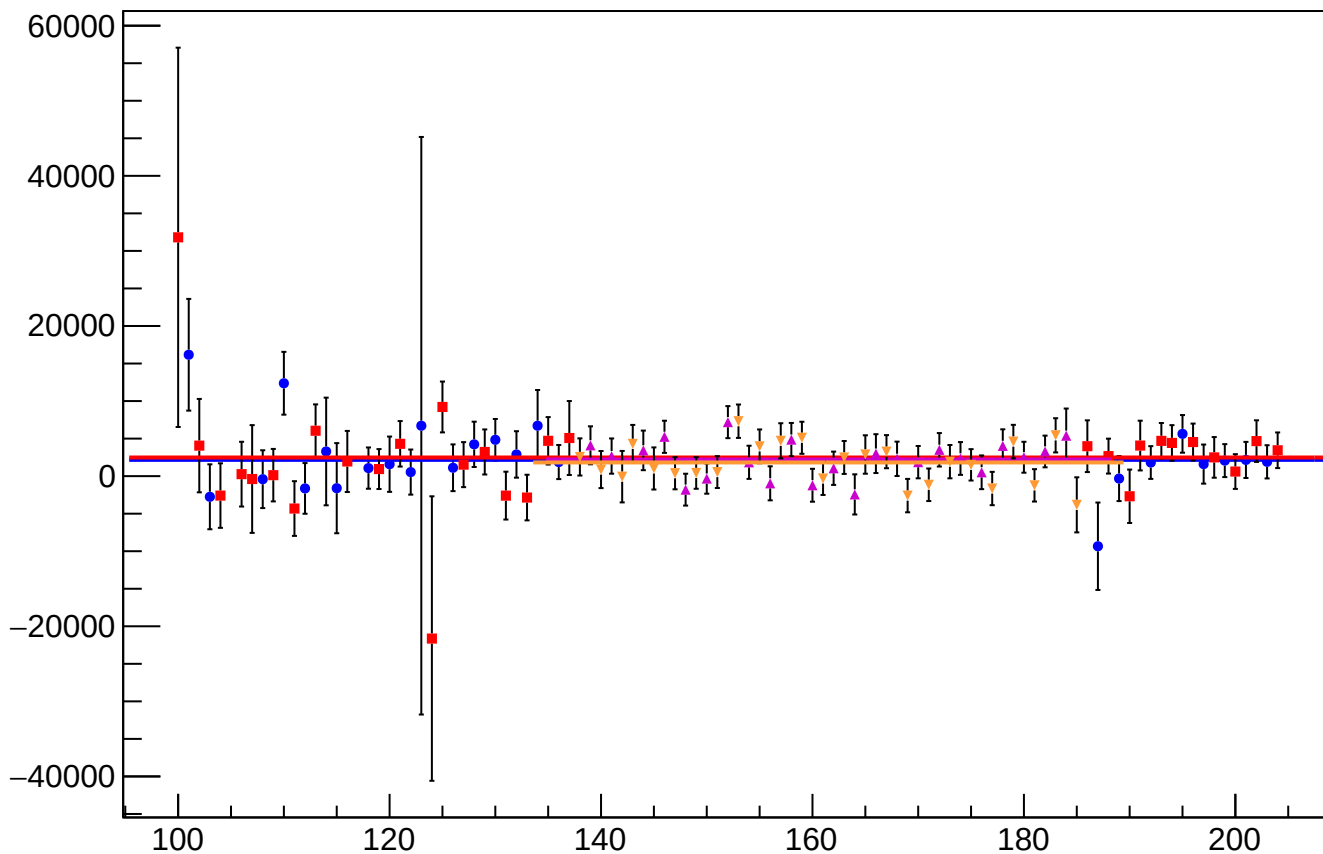
Right: 622.712+/-0.095 χ^2/NDF : 5696949.9/54

In: 521.830+/-0.075 χ^2/NDF : 9743608.1/47

Out: 509.556+/-0.072 χ^2/NDF : 11028251.3/54

All: 515.367+/-0.052 χ^2/NDF : 20785776.4/100

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2168.723+/-622.919 χ^2/NDF : 22.5/24

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2482.562+/-581.698 χ^2/NDF : 27.3/29

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

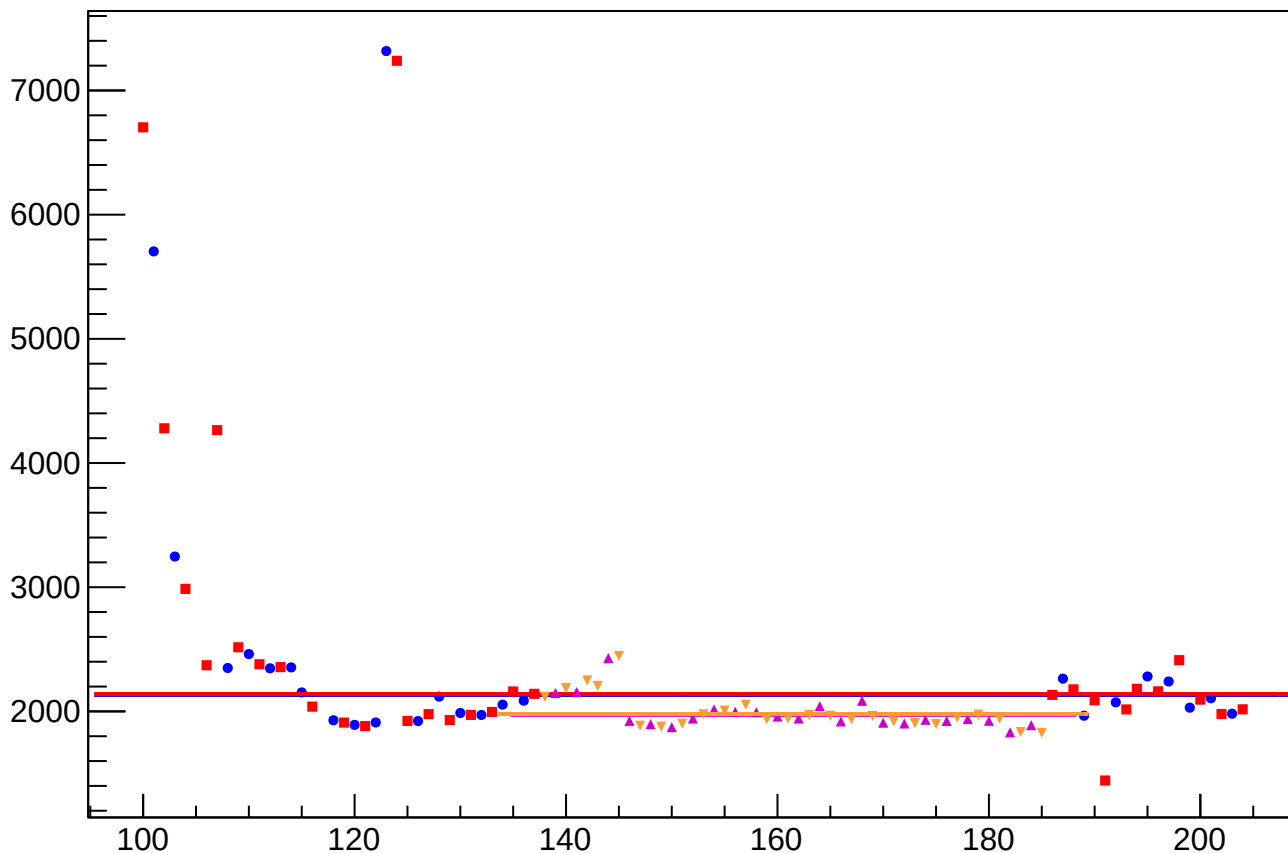
Right: 2336.369+/-425.149 χ^2/NDF : 49.9/54

In: 2193.667+/-377.236 χ^2/NDF : 47.9/47

Out: 2079.242+/-362.111 χ^2/NDF : 60.1/54

All: 2134.115+/-261.235 χ^2/NDF : 108.0/102

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2132.394+/-0.440 χ^2/NDF : 743928.8/24

Left Out: 1978.997+/-0.327 χ^2/NDF : 139299.8/24

Right Out: 2139.798+/-0.411 χ^2/NDF : 938596.7/29

Left In: 1972.166+/-0.335 χ^2/NDF : 116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

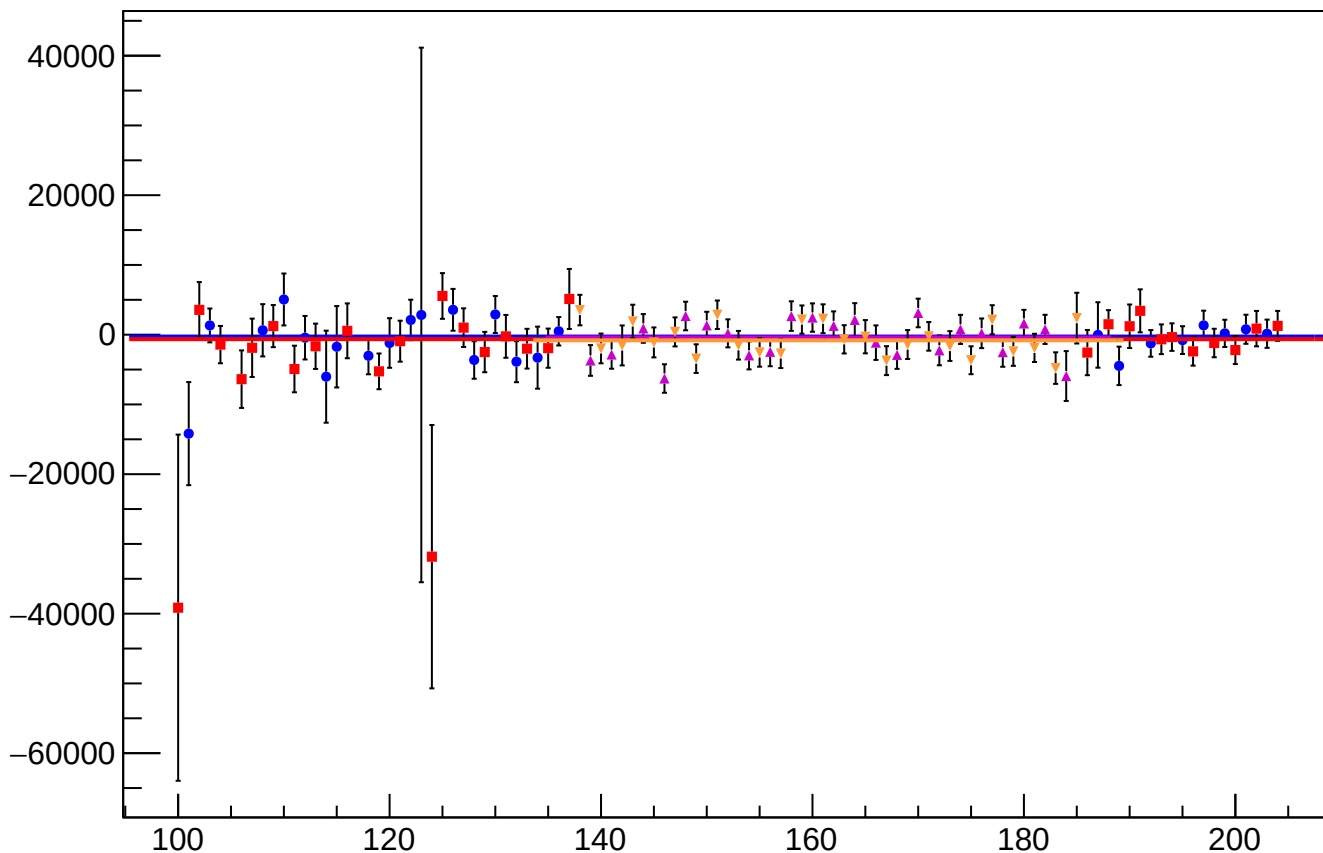
Right: 2136.349+/-0.301 χ^2/NDF : 1682676.5/54

In: 2030.929+/-0.267 χ^2/NDF : 944176.8/47

Out: 2041.310+/-0.256 χ^2/NDF : 1171503.6/54

All: 2036.332+/-0.185 χ^2/NDF : 2116468.6/100

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -268.212 $\pm$ 551.419 χ^2 /NDF: 19.0/24

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF:27.9/24

Right Out: -642.346 $\pm$ 511.359 χ^2 /NDF: 26.5/29

Left In: -398.797 $\pm$ 441.246 χ^2 /NDF:34.4/22

Left: -608.759 $\pm$ 308.066 χ^2 /NDF: 62.8/47

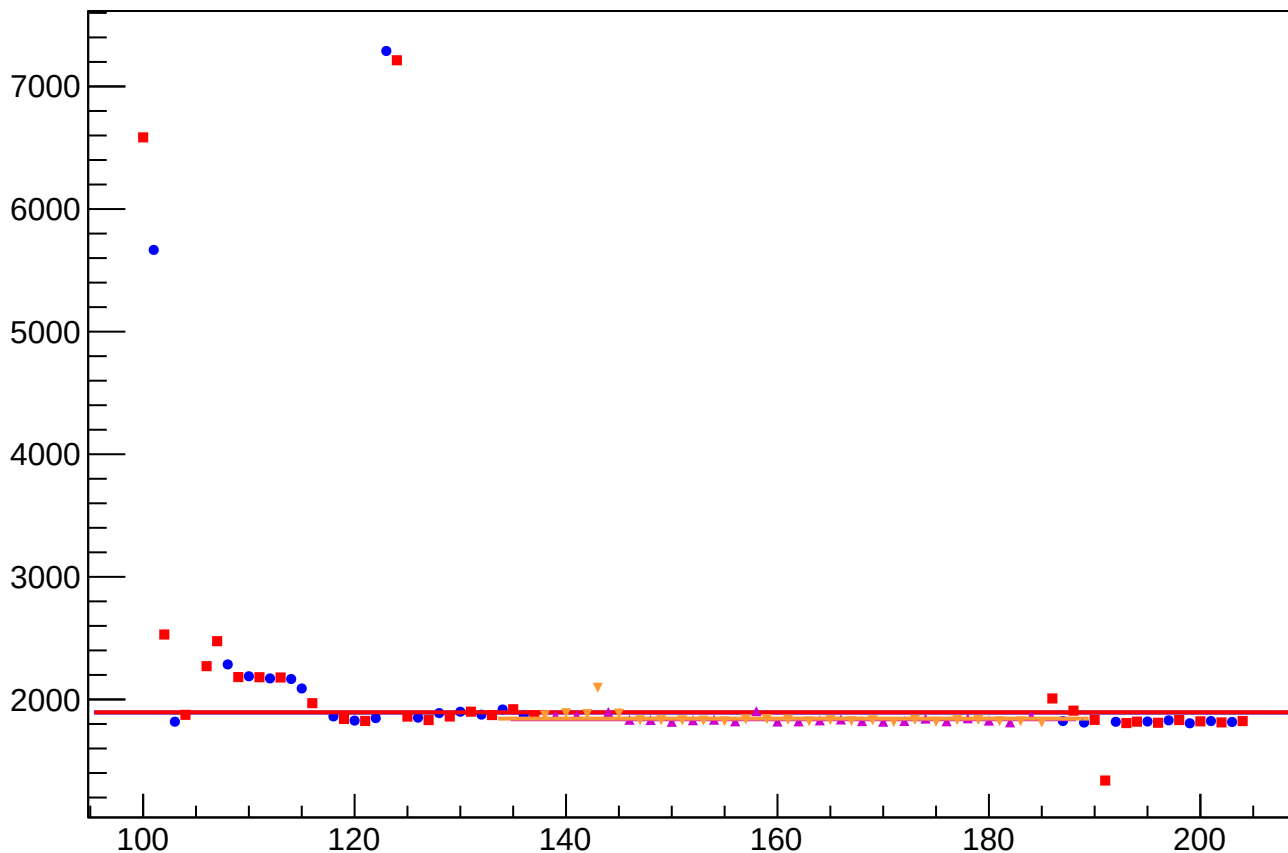
Right: -469.362 $\pm$ 374.949 χ^2 /NDF: 45.8/54

In: -347.822 $\pm$ 344.521 χ^2 /NDF:53.5/47

Out: -739.582 $\pm$ 329.244 χ^2 /NDF:54.5/54

All: -552.581 $\pm$ 238.028 χ^2 /NDF: 108.7/102

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1893.178 $\pm$ 0.390 χ^2 /NDF: 640061.5/24

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1895.054 $\pm$ 0.362 χ^2 /NDF: 475889.3/29

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

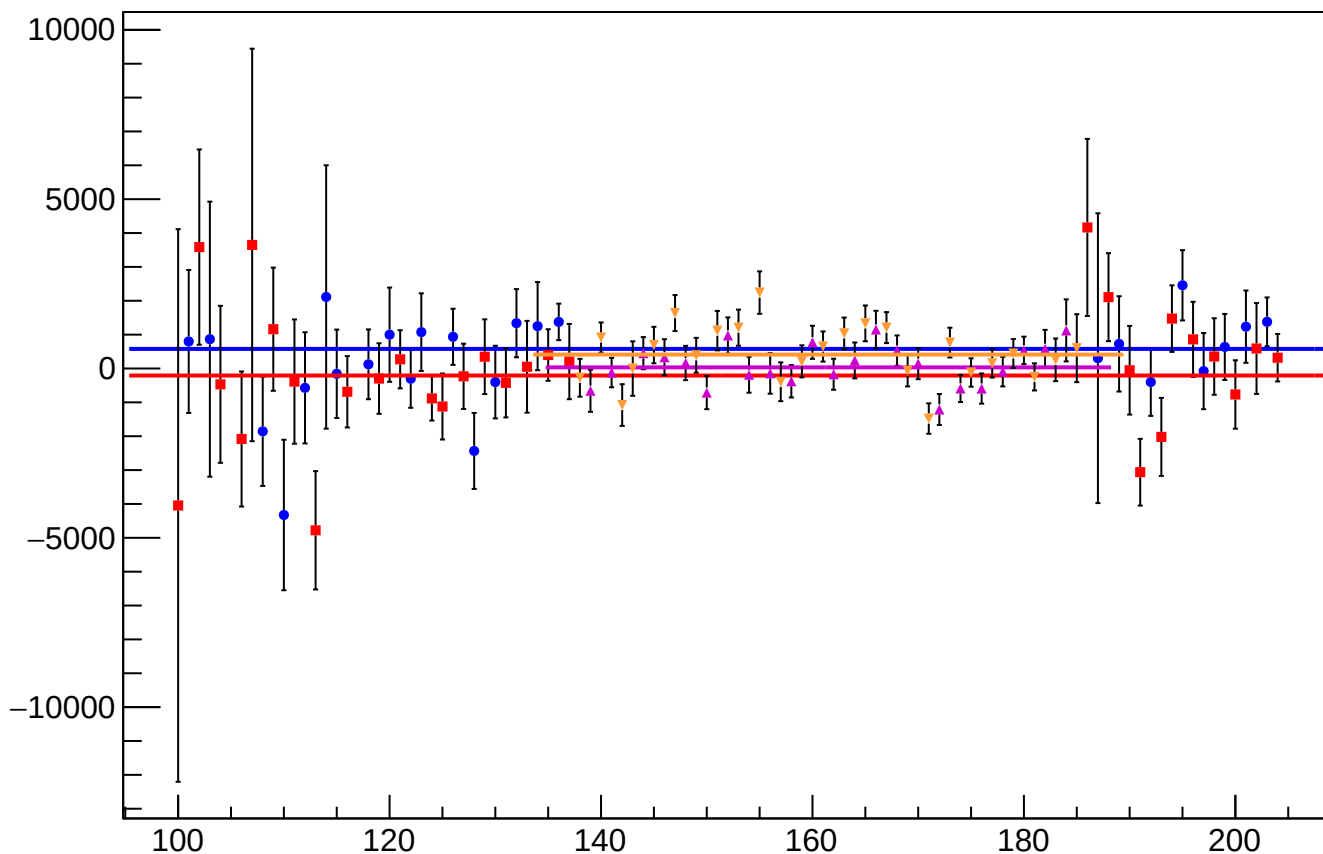
Right: 1894.187 $\pm$ 0.265 χ^2 /NDF: 1115963.3/54

In: 1859.912 $\pm$ 0.244 χ^2 /NDF: 658336.4/47

Out: 1865.017 $\pm$ 0.233 χ^2 /NDF: 514544.4/54

All: 1862.580 $\pm$ 0.168 χ^2 /NDF: 1173110.3/100

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 578.797 $\pm$ 219.508 χ^2 /NDF: 27.1/24

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -207.524 $\pm$ 206.965 χ^2 /NDF: 36.5/29

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF:32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

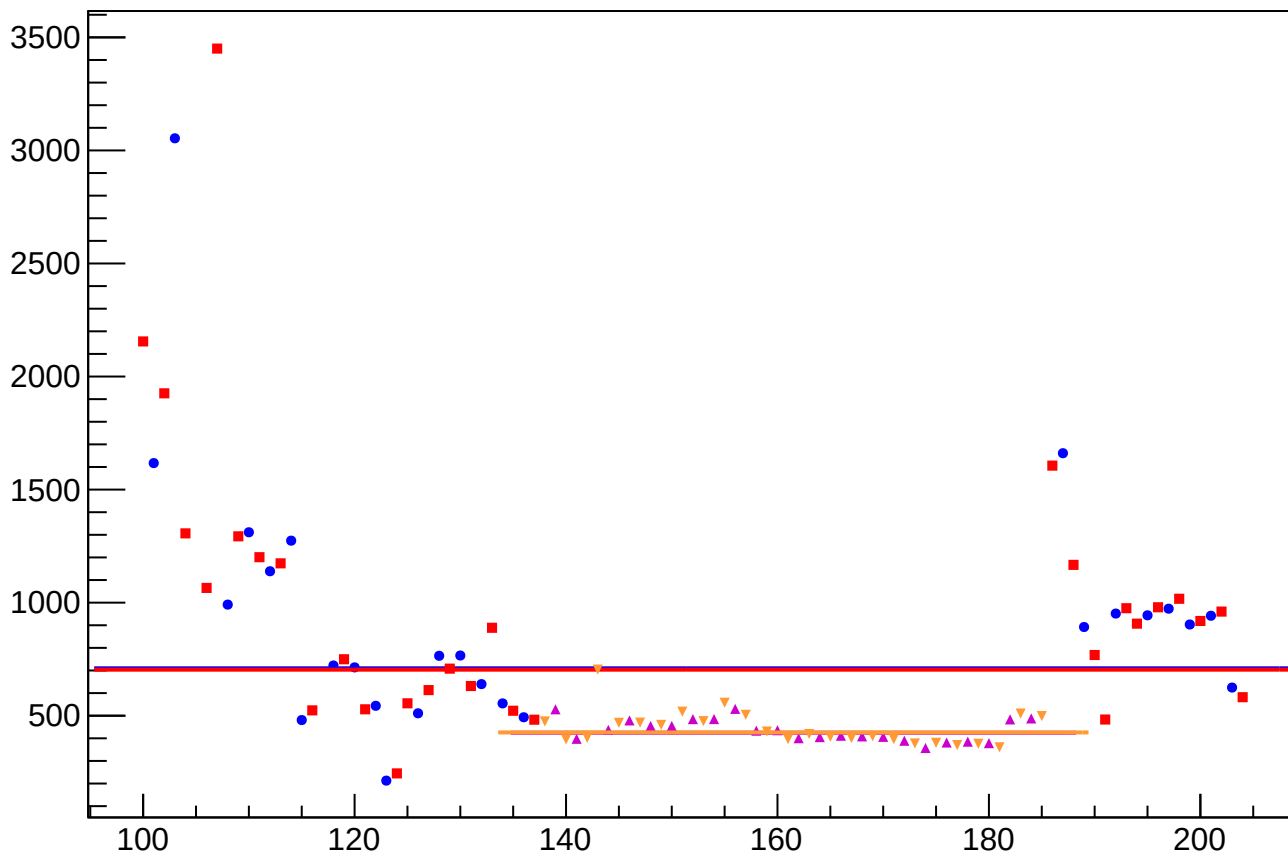
Right: 162.530 $\pm$ 150.585 χ^2 /NDF: 70.4/54

In: 130.107 $\pm$ 92.802 χ^2 /NDF:64.9/47

Out: 293.124 $\pm$ 90.373 χ^2 /NDF:104.9/54

All: 213.776 $\pm$ 64.745 χ^2 /NDF: 171.4/102

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 709.648 $\pm$ 0.155 χ^2 /NDF: 3085602.9/24

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 703.577 $\pm$ 0.146 χ^2 /NDF: 4307453.5/29

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF: 391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

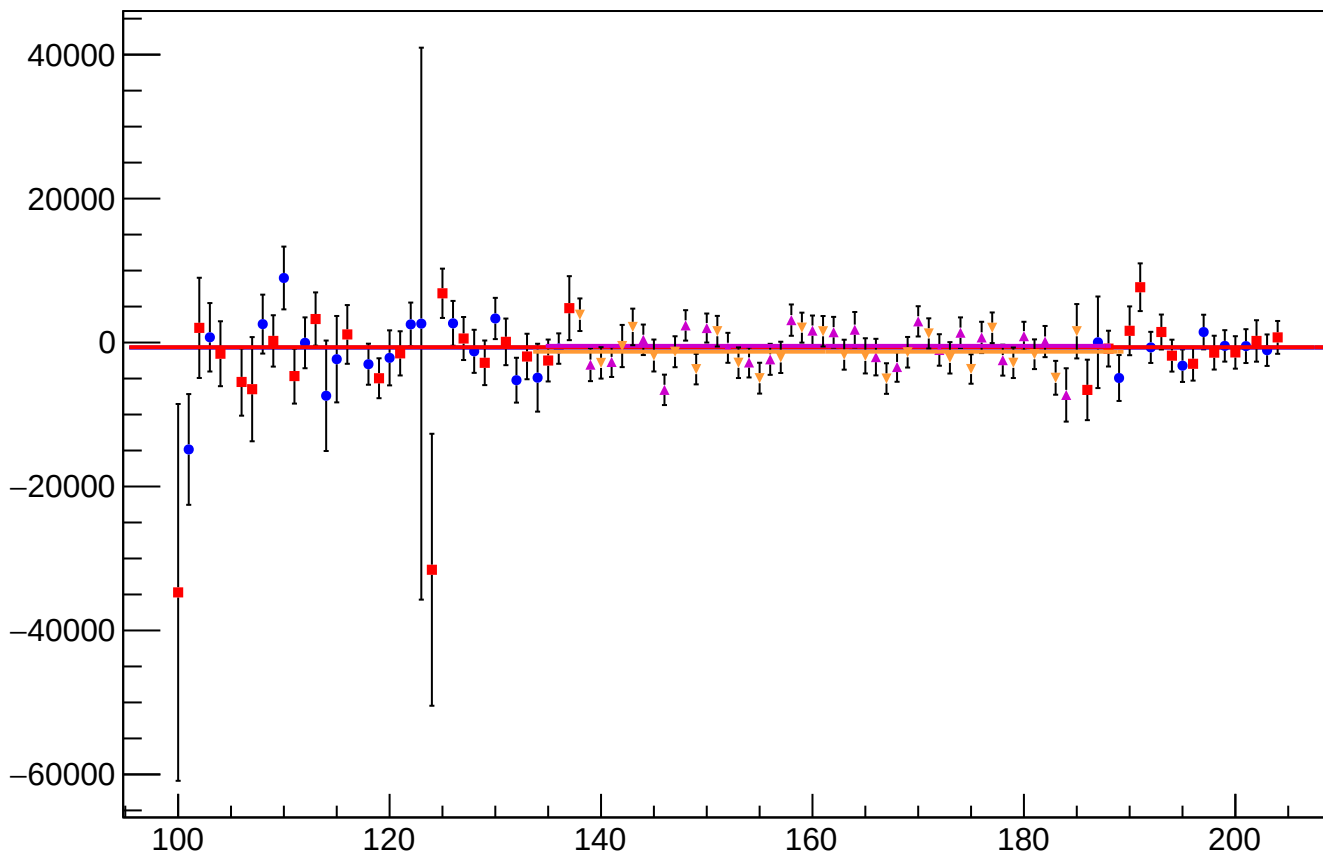
Right: 706.434 $\pm$ 0.106 χ^2 /NDF: 7393866.2/54

In: 475.580 $\pm$ 0.066 χ^2 /NDF: 6246267.0/47

Out: 478.948 $\pm$ 0.064 χ^2 /NDF: 7951542.0/54

All: 477.309 $\pm$ 0.046 χ^2 /NDF: 14199161.3/101

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -702.947+/-618.587 χ^2/NDF : 21.8/24

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -647.341+/-580.864 χ^2/NDF : 30.2/29

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

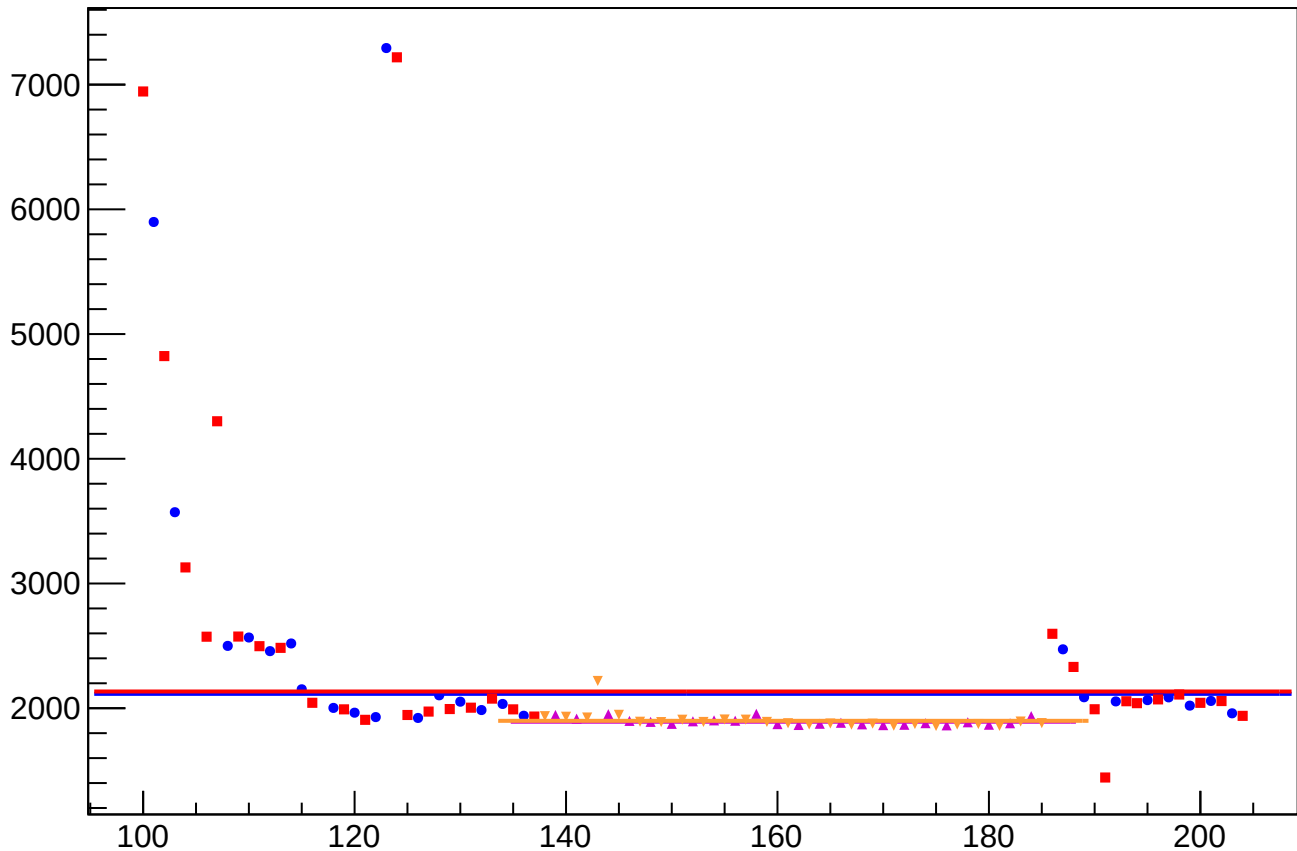
Right: -673.397+/-423.441 χ^2/NDF : 52.0/54

In: -546.728+/-365.976 χ^2/NDF :54.4/47

Out: -1039.539+/-352.358 χ^2/NDF :61.7/54

All: -802.472+/-253.833 χ^2/NDF : 117.1/102

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2115.148 $\pm$ 0.437 χ^2 /NDF: 836036.8/24

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF: 38680.4/24

Right Out: 2134.101 $\pm$ 0.411 χ^2 /NDF: 1071216.1/29

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF: 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

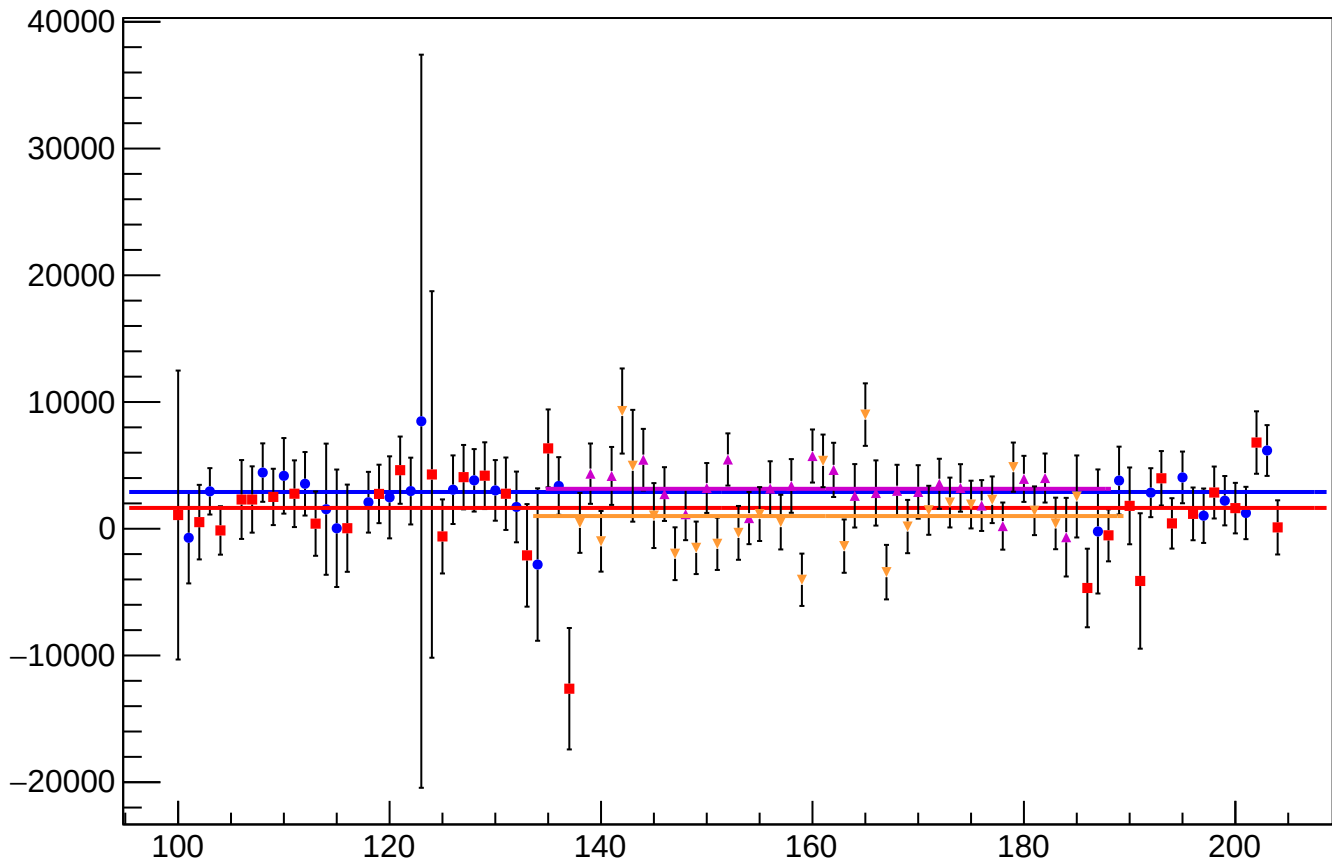
Right: 2125.220 $\pm$ 0.299 χ^2 /NDF: 1908250.7/54

In: 1969.908 $\pm$ 0.259 χ^2 /NDF: 1013088.1/47

Out: 1985.487 $\pm$ 0.249 χ^2 /NDF: 1317036.7/54

All: 1977.993 $\pm$ 0.179 χ^2 /NDF: 2332005.6/10

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2900.203 $\pm$ 512.117 χ^2 /NDF: 8.6/24

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1642.239 $\pm$ 478.047 χ^2 /NDF: 31.4/29

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

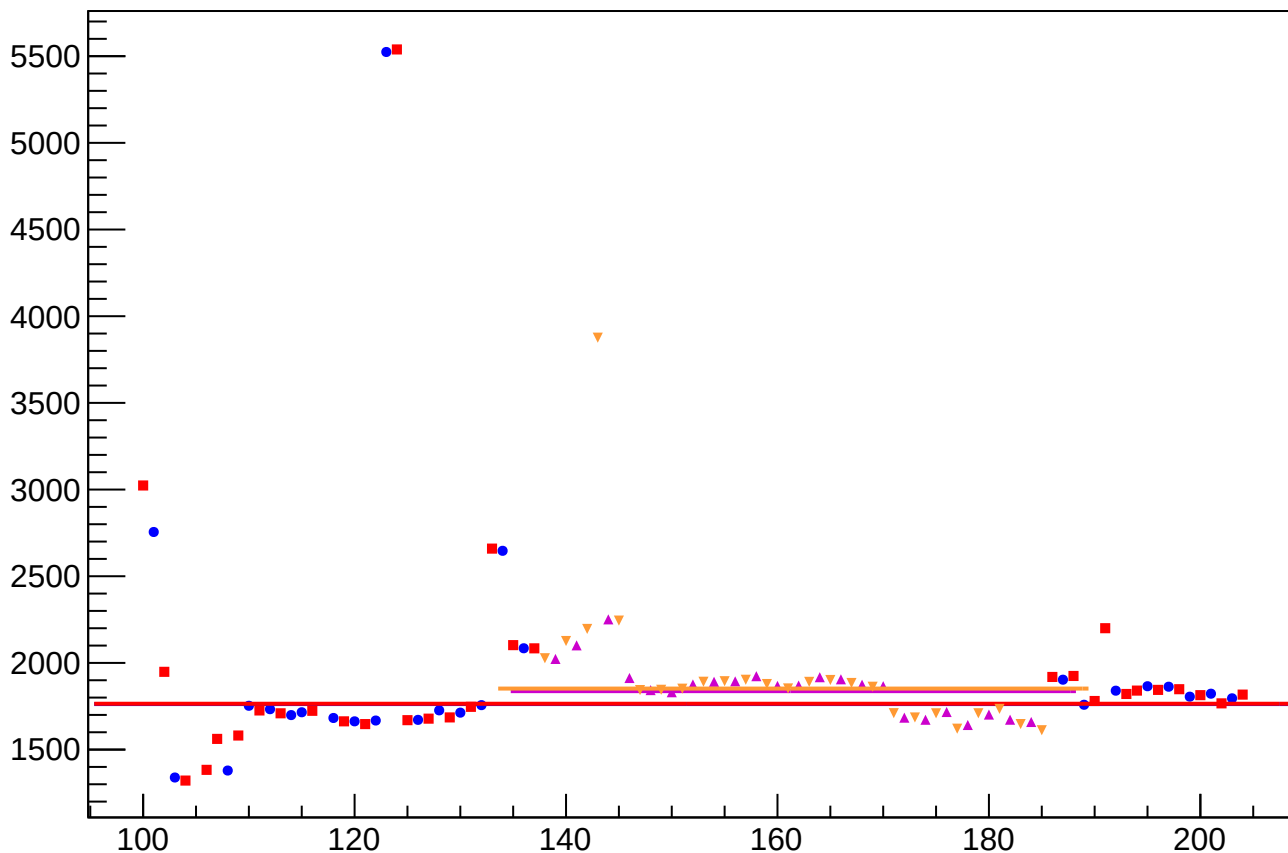
Right: 2227.988 $\pm$ 349.454 χ^2 /NDF: 43.2/54

In: 3043.847 $\pm$ 334.236 χ^2 /NDF:20.6/47

Out: 1291.779 $\pm$ 321.836 χ^2 /NDF:77.0/54

All: 2134.710 $\pm$ 231.832 χ^2 /NDF: 111.8/102

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1762.621 $\pm$ 0.362 χ^2 /NDF: 460163.6/24

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1764.446 $\pm$ 0.338 χ^2 /NDF: 521805.7/29

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

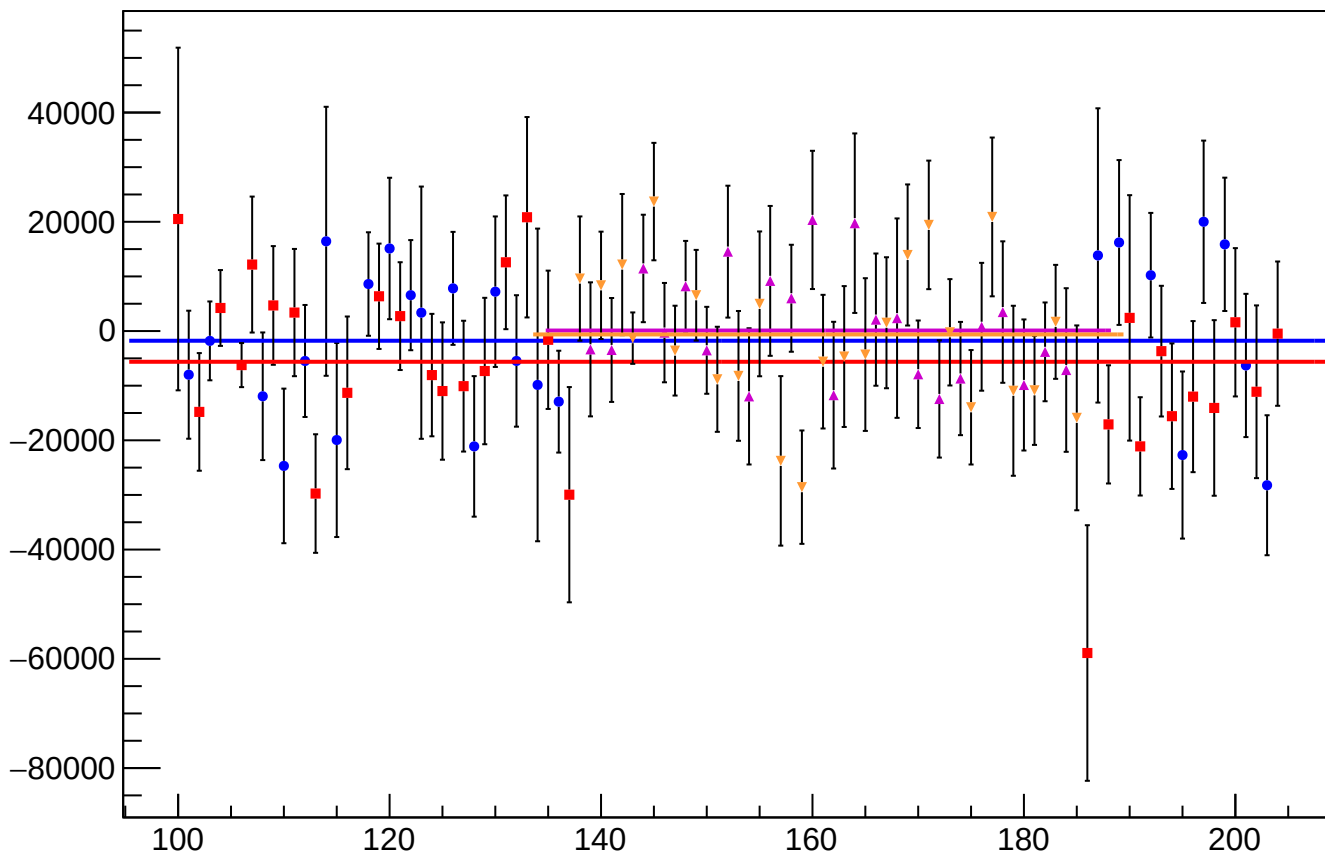
Right: 1763.596 $\pm$ 0.247 χ^2 /NDF: 981982.9/54

In: 1805.404 $\pm$ 0.236 χ^2 /NDF: 684993.9/47

Out: 1812.294 $\pm$ 0.228 χ^2 /NDF: 1207406.3/54

All: 1808.979 $\pm$ 0.164 χ^2 /NDF: 1892841.3/100

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1774.140+/-2475.742 χ^2/NDF : 27.5/24

Left Out: -619.372+/-2069.686 χ^2/NDF :30.1/24

Right Out: -5623.894+/-1977.571 χ^2/NDF : 31.7/29

Left In: 93.334+/-2293.826 χ^2/NDF :14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

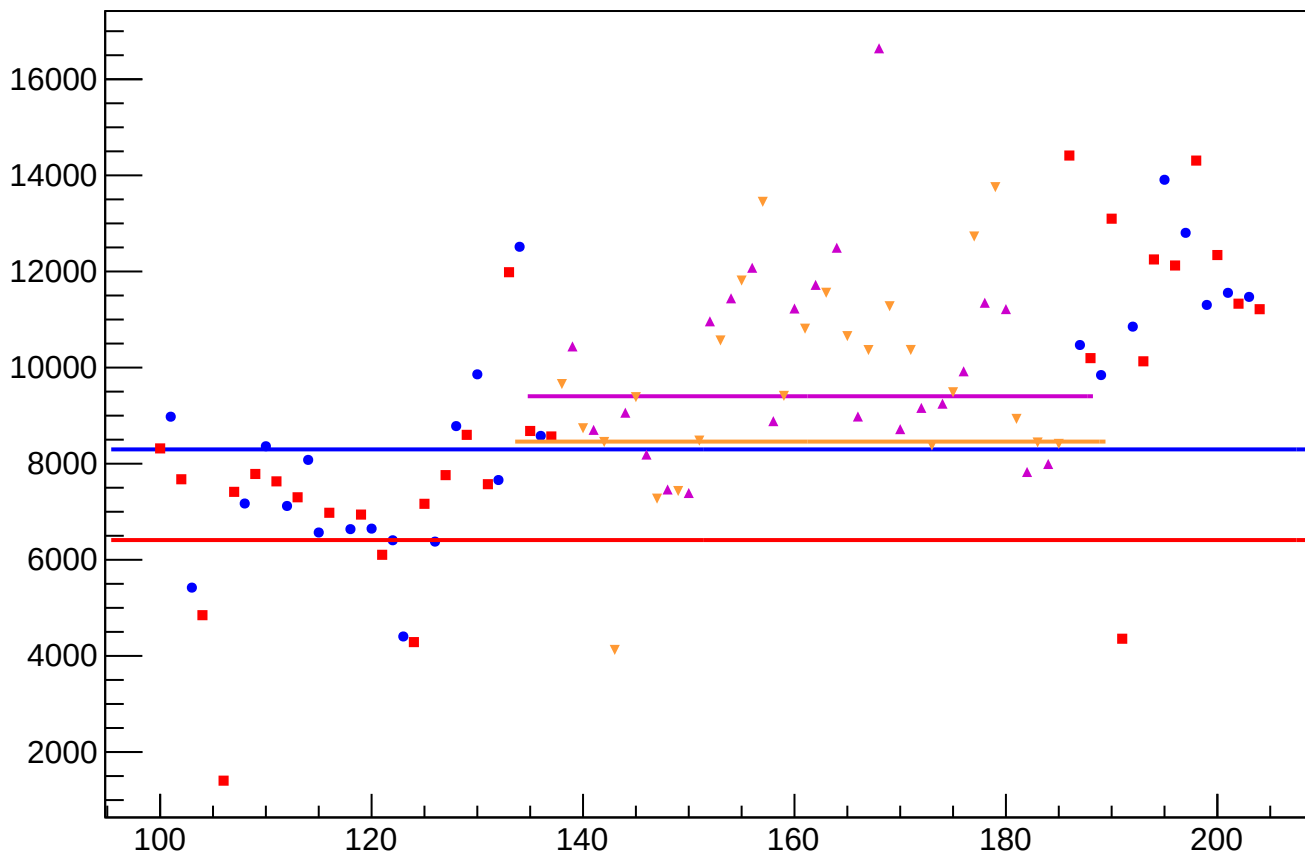
Right: -4124.348+/-1545.143 χ^2/NDF : 60.7/54

In: -769.279+/-1682.620 χ^2/NDF :42.5/47

Out: -3235.477+/-1429.810 χ^2/NDF :64.9/54

All: -2201.384+/-1089.562 χ^2/NDF : 108.6/100

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8297.487 $\pm$ 1.751 χ^2 /NDF: 1712929.6/24

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF:3087200.5/24

Right Out: 6410.817 $\pm$ 1.398 χ^2 /NDF: 6761655.1/29

Left In: 9403.481 $\pm$ 1.622 χ^2 /NDF:1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

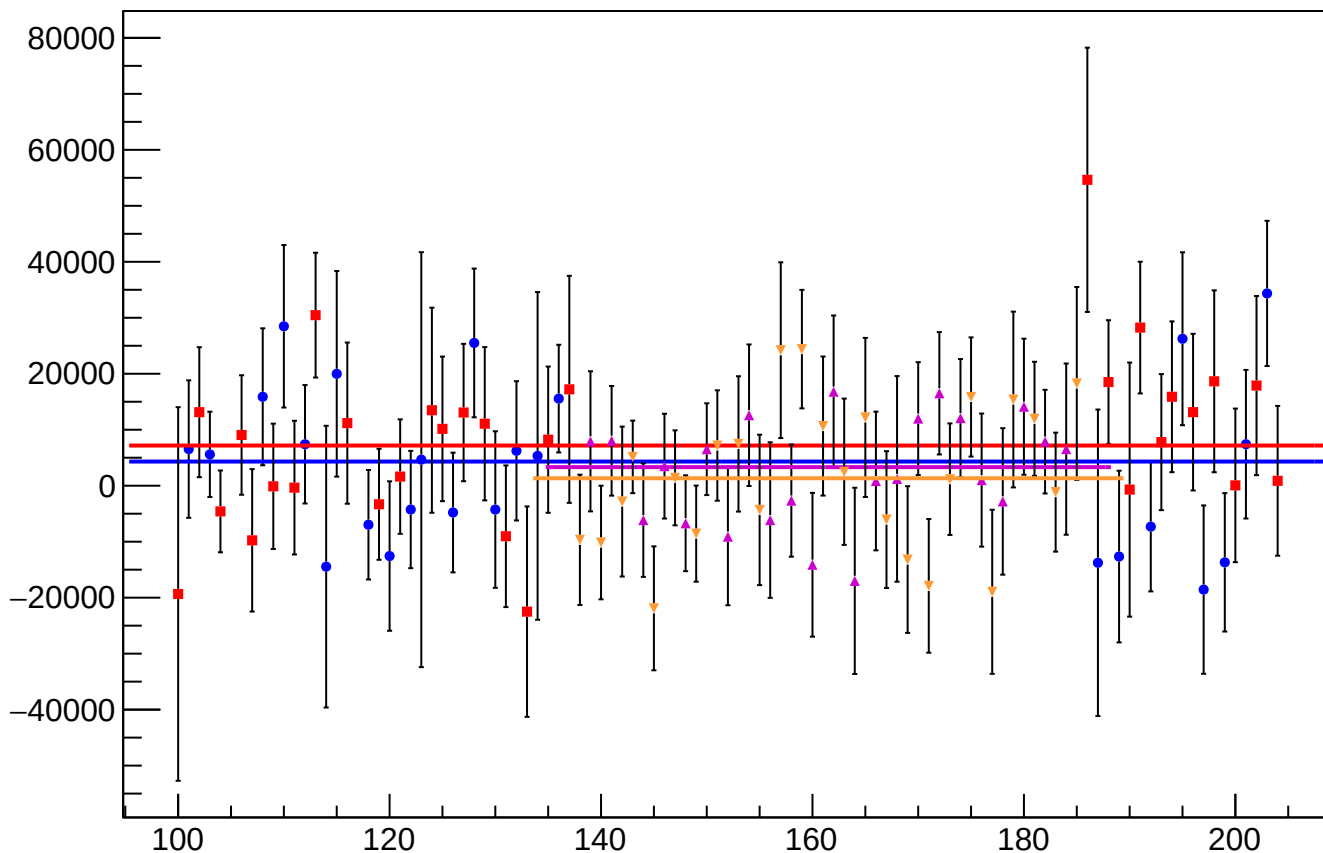
Right: 7145.708 $\pm$ 1.093 χ^2 /NDF: 9183646.6/54

In: 8892.606 $\pm$ 1.190 χ^2 /NDF:3070348.0/47

Out: 7388.775 $\pm$ 1.011 χ^2 /NDF:10873699.9/54

All: 8019.341 $\pm$ 0.770 χ^2 /NDF: 14871738.8/101

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4316.677+/-2560.984 χ^2/NDF : 28.3/24

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 7176.686+/-2337.242 χ^2/NDF : 27.3/29

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

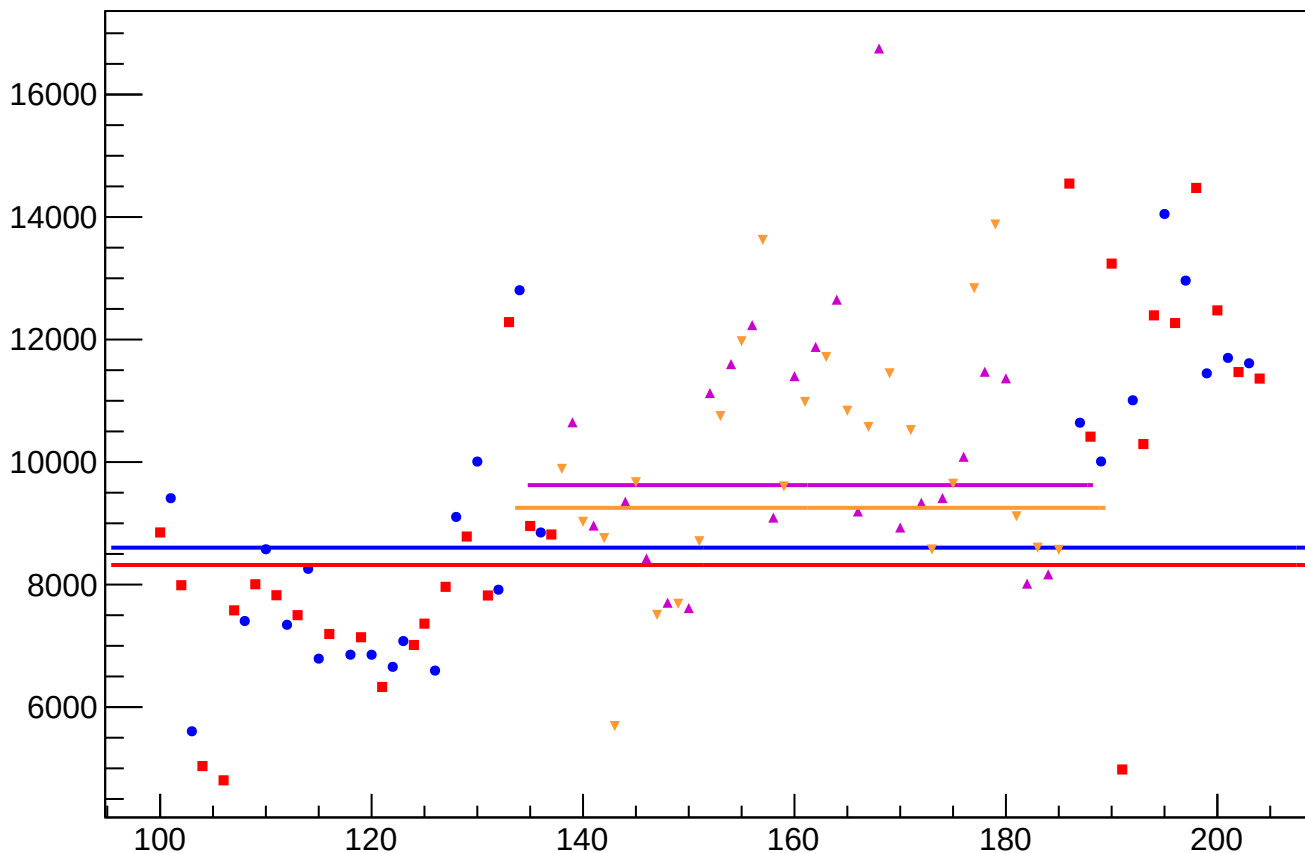
Right: 5877.050+/-1726.371 χ^2/NDF : 56.3/54

In: 3772.767+/-1729.307 χ^2/NDF : 42.1/47

Out: 4096.278+/-1607.236 χ^2/NDF : 58.6/54

All: 3946.342+/-1177.279 χ^2/NDF : 100.7/102

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8602.783+/-1.811 χ^2/NDF : 1551934.8/24

Left Out: 9252.712+/-1.565 χ^2/NDF : 1597668.9/24

Right Out: 8319.693+/-1.653 χ^2/NDF : 2398477.5/29

Left In: 9623.485+/-1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467+/-1.138 χ^2/NDF : 2694036.4/47

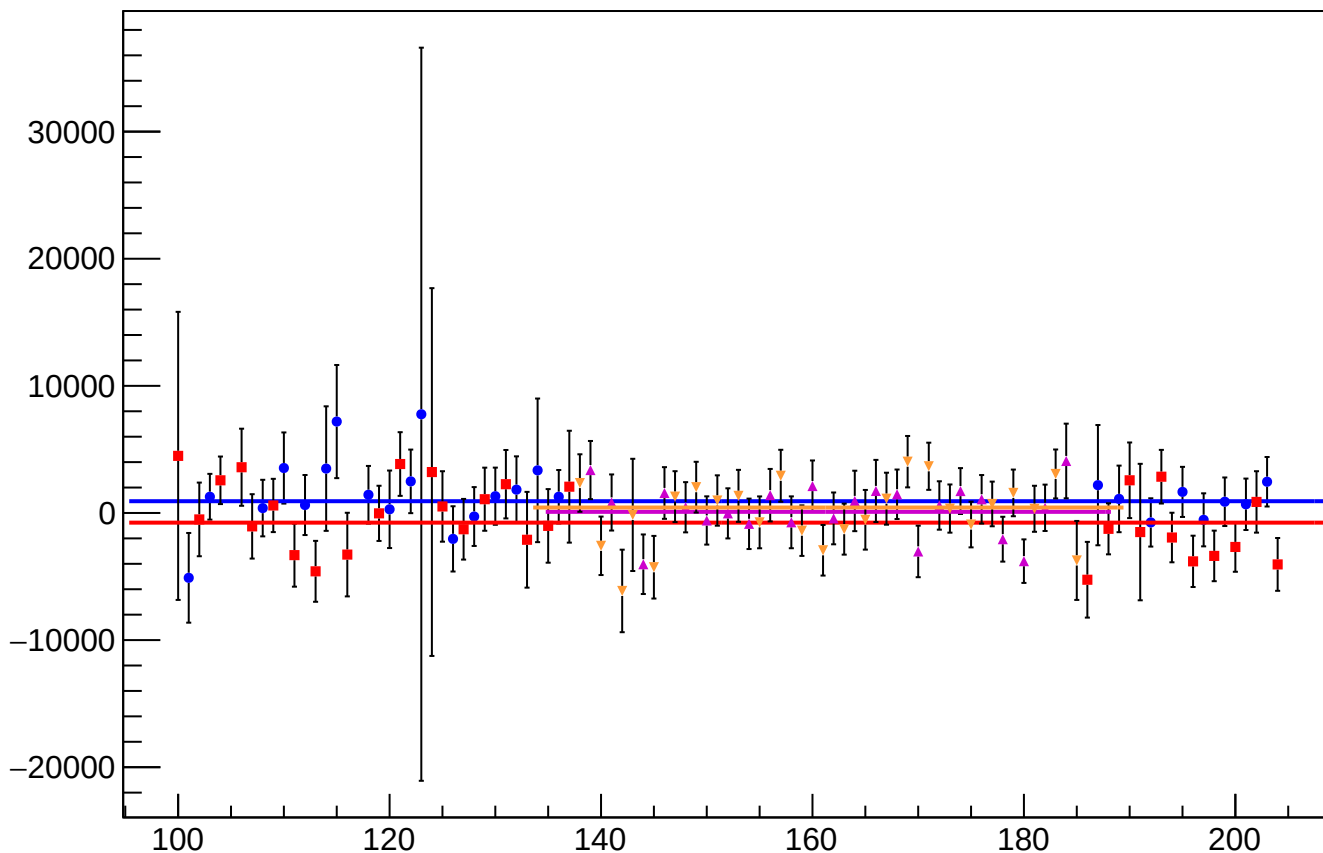
Right: 8448.324+/-1.221 χ^2/NDF : 3963746.7/54

In: 9158.072+/-1.223 χ^2/NDF : 2794701.6/47

Out: 8811.462+/-1.136 χ^2/NDF : 4164164.1/54

All: 8972.097+/-0.832 χ^2/NDF : 7001976.8/100

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 925.497 ± 492.088 $\chi^2/\text{NDF}: 10.8/24$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -760.967 ± 460.351 $\chi^2/\text{NDF}: 31.1/29$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

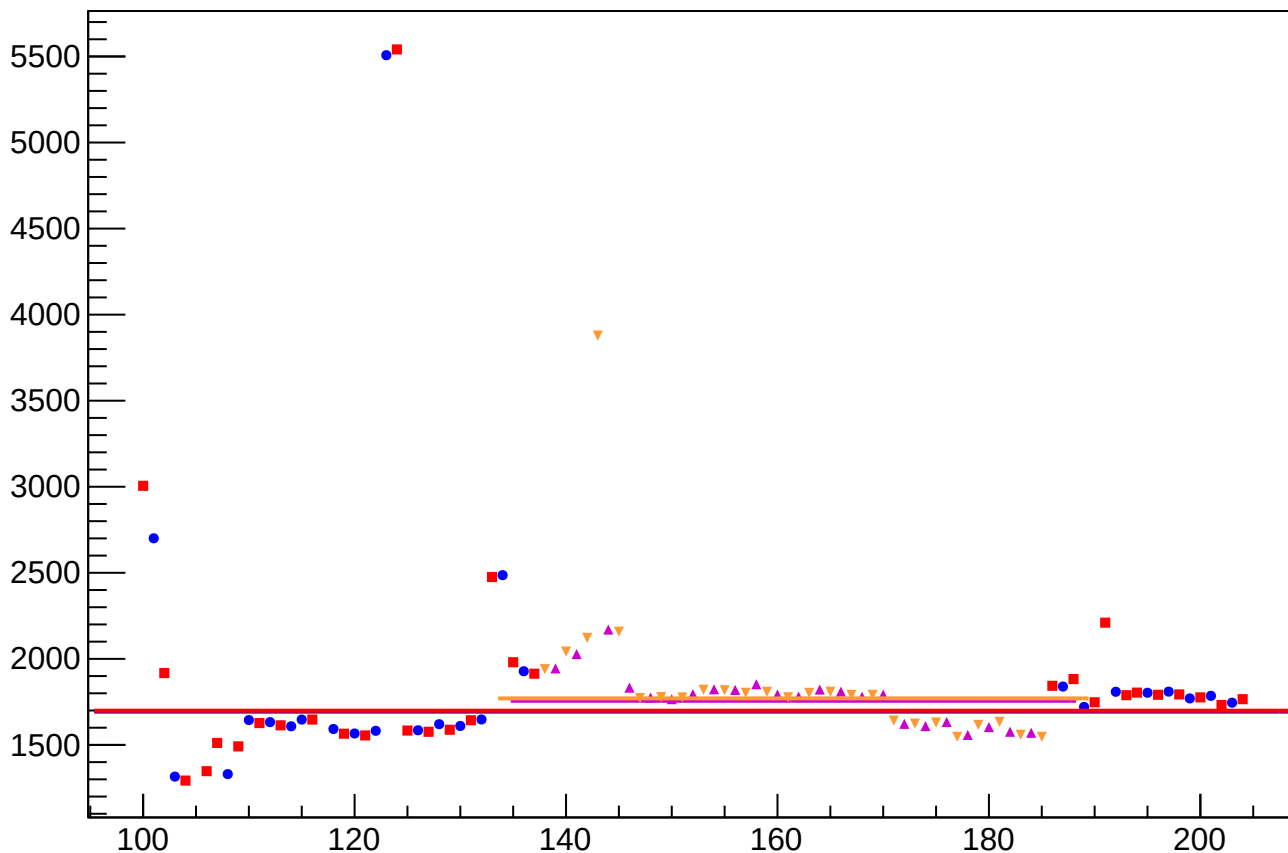
Right: 26.130 ± 336.178 $\chi^2/\text{NDF}: 48.2/54$

In: 443.081 ± 320.320 $\chi^2/\text{NDF}: 33.4/47$

Out: -106.204 ± 308.802 $\chi^2/\text{NDF}: 63.5/54$

All: 158.386 ± 222.317 $\chi^2/\text{NDF}: 98.4/102$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1693.663 $\pm$ 0.348 χ^2 /NDF: 457159.7/24

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1698.802 $\pm$ 0.326 χ^2 /NDF: 535733.6/29

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

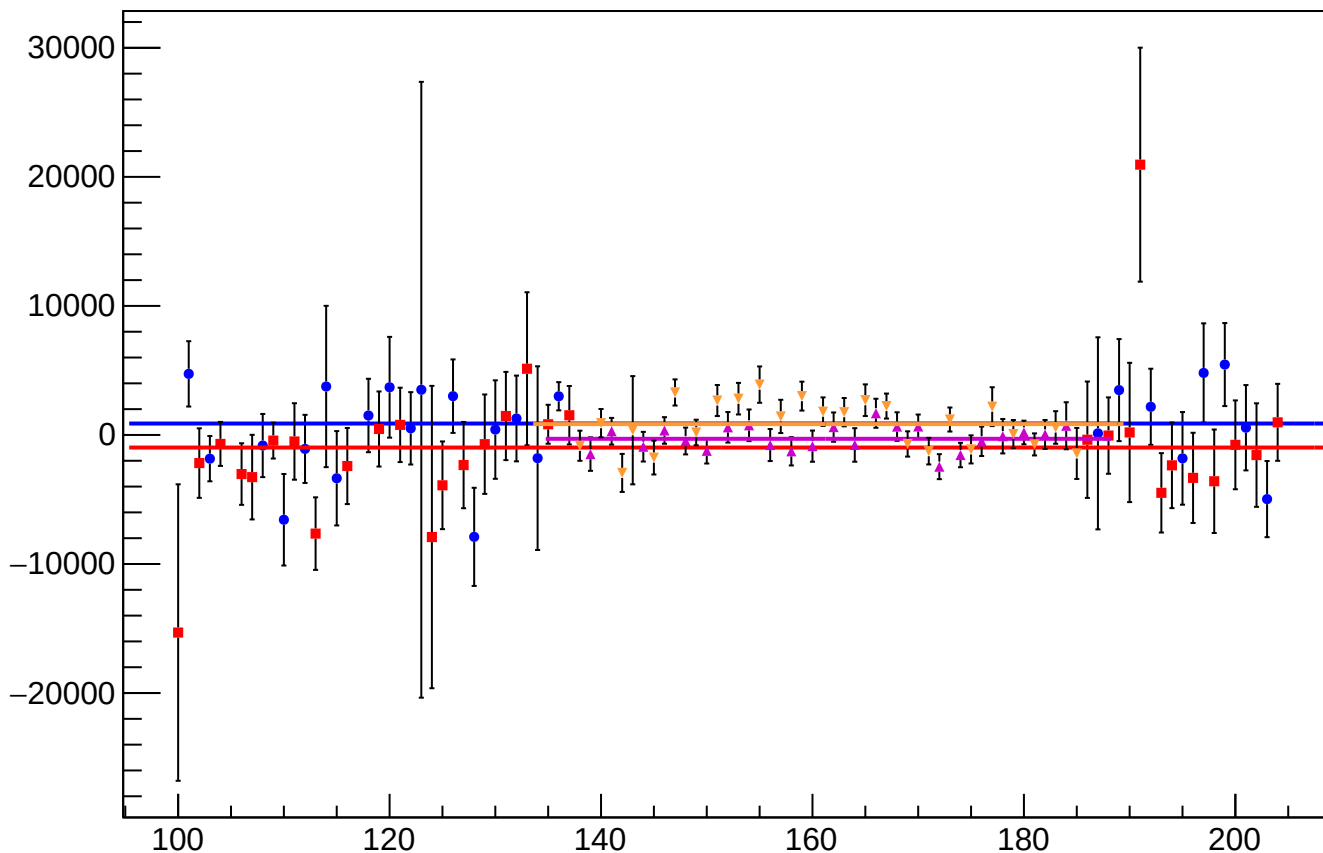
Right: 1696.404 $\pm$ 0.238 χ^2 /NDF: 993009.7/54

In: 1729.945 $\pm$ 0.227 χ^2 /NDF: 699104.5/47

Out: 1738.174 $\pm$ 0.218 χ^2 /NDF: 1261868.0/54

All: 1734.210 $\pm$ 0.157 χ^2 /NDF: 1961656.6/100

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 885.195 $\pm$ 564.090 χ^2 /NDF: 30.3/24

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF: 54.4/24

Right Out: -975.335 $\pm$ 521.457 χ^2 /NDF: 24.0/29

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF: 18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

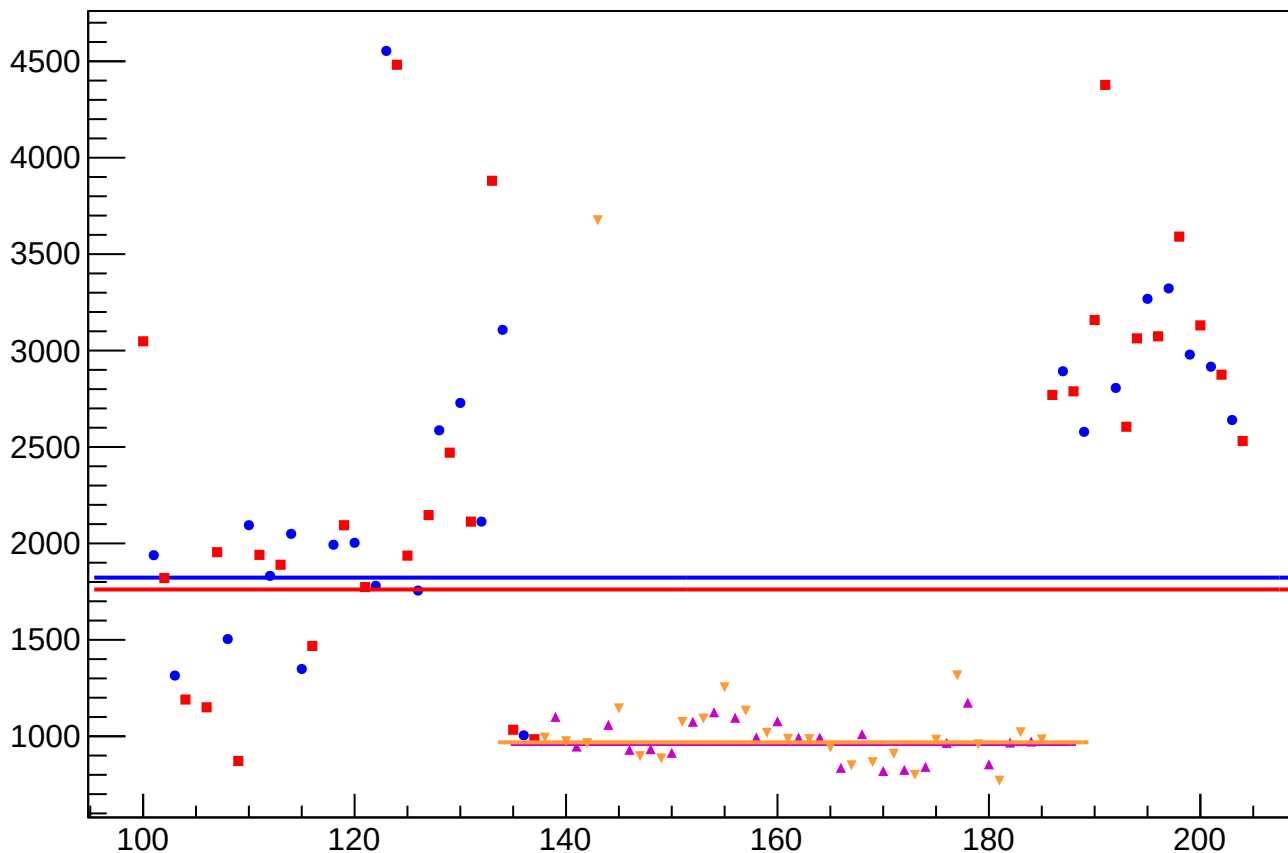
Right: -118.027 $\pm$ 382.912 χ^2 /NDF: 60.2/54

In: -128.259 $\pm$ 214.087 χ^2 /NDF: 52.4/47

Out: 542.803 $\pm$ 210.795 χ^2 /NDF: 88.5/54

All: 212.470 $\pm$ 150.205 χ^2 /NDF: 145.9/102

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1822.648 $\pm$ 0.399 χ^2 /NDF: 3282492.1/24

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1761.107 $\pm$ 0.369 χ^2 /NDF: 4851460.7/29

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

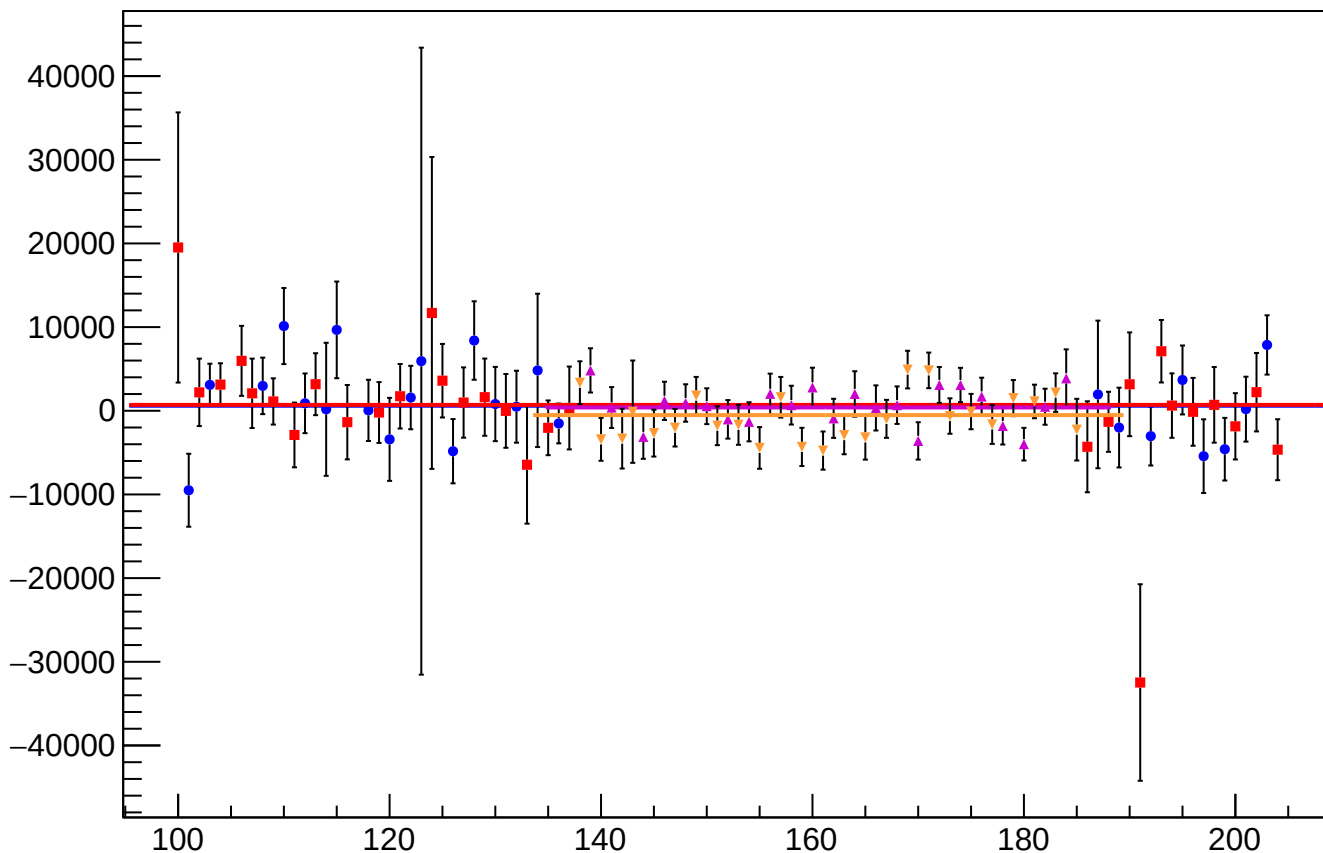
Right: 1789.464 $\pm$ 0.271 χ^2 /NDF: 8146788.6/54

In: 1084.088 $\pm$ 0.151 χ^2 /NDF: 7659141.6/47

Out: 1098.199 $\pm$ 0.149 χ^2 /NDF: 10108715.8/54

All: 1091.253 $\pm$ 0.106 χ^2 /NDF: 17772268.9/101

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 605.909 $\pm$ 809.130 χ^2 /NDF: 30.2/24

Left Out: -517.719 $\pm$ 481.486 χ^2 /NDF:34.0/24

Right Out: 703.092 $\pm$ 757.823 χ^2 /NDF: 23.4/29

Left In: 397.398 $\pm$ 485.048 χ^2 /NDF:21.8/22

Left: -63.533 $\pm$ 341.714 χ^2 /NDF: 57.7/47

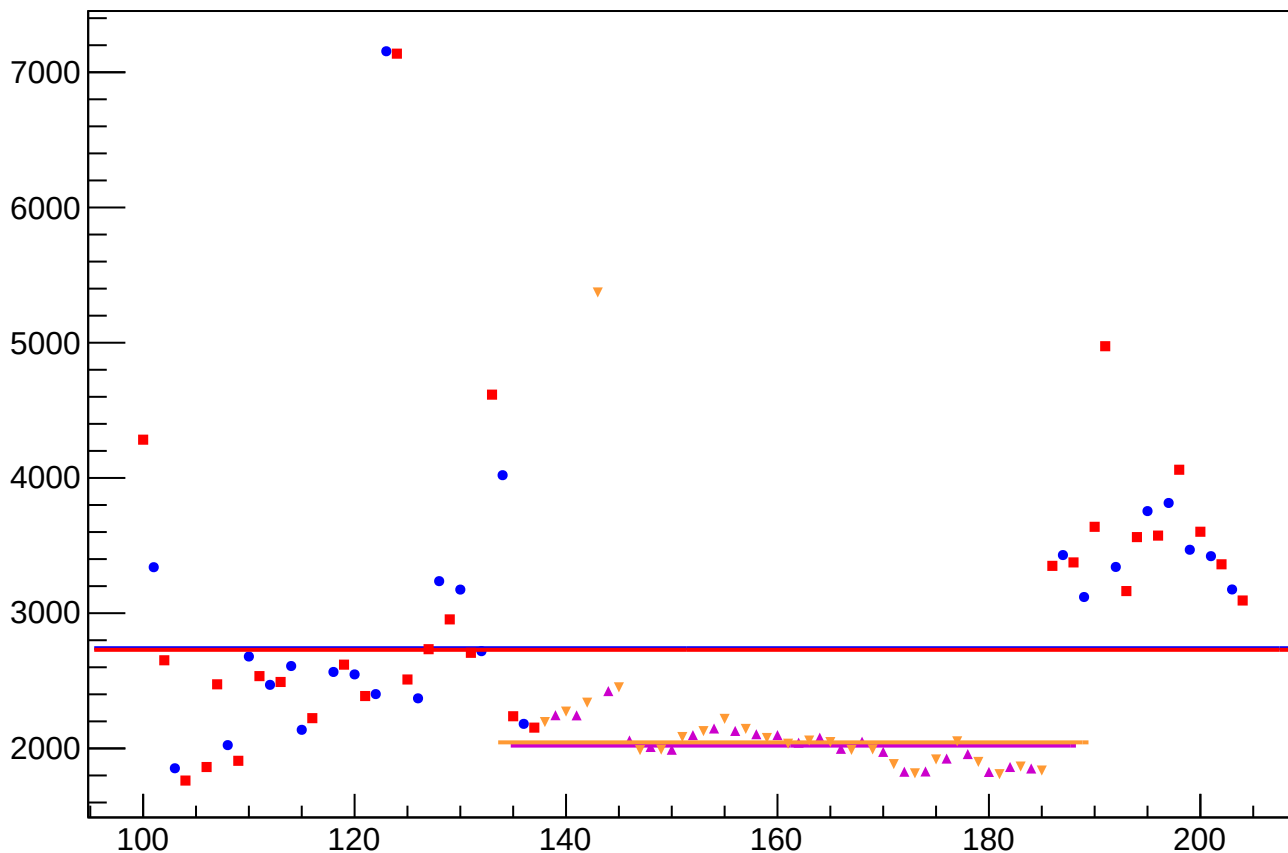
Right: 657.679 $\pm$ 553.111 χ^2 /NDF: 53.5/54

In: 452.520 $\pm$ 416.022 χ^2 /NDF:52.0/47

Out: -166.633 $\pm$ 406.397 χ^2 /NDF:59.2/54

All: 135.698 $\pm$ 290.709 χ^2 /NDF: 112.4/102

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2740.983 $\pm$ 0.572 χ^2 /NDF: 1160012.2/24

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2729.096 $\pm$ 0.536 χ^2 /NDF: 1712388.0/29

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

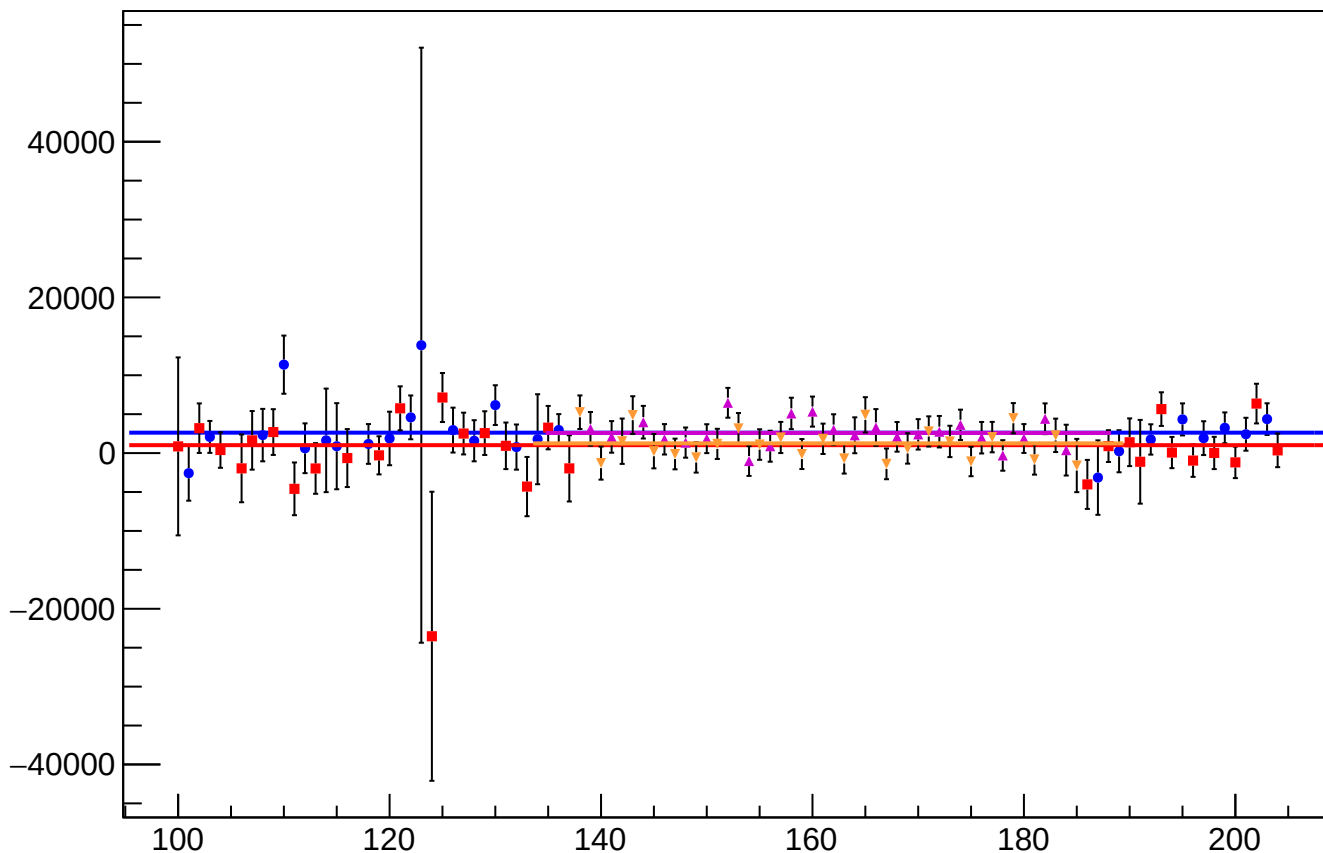
Right: 2734.651 $\pm$ 0.391 χ^2 /NDF: 2872630.1/54

In: 2211.190 $\pm$ 0.294 χ^2 /NDF: 2499097.8/47

Out: 2241.539 $\pm$ 0.287 χ^2 /NDF: 3663119.9/54

All: 2226.719 $\pm$ 0.206 χ^2 /NDF: 6167663.9/100

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2623.392 $\pm$ 541.196 χ^2 /NDF: 15.8/24

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 1017.299 $\pm$ 510.622 χ^2 /NDF: 31.9/29

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

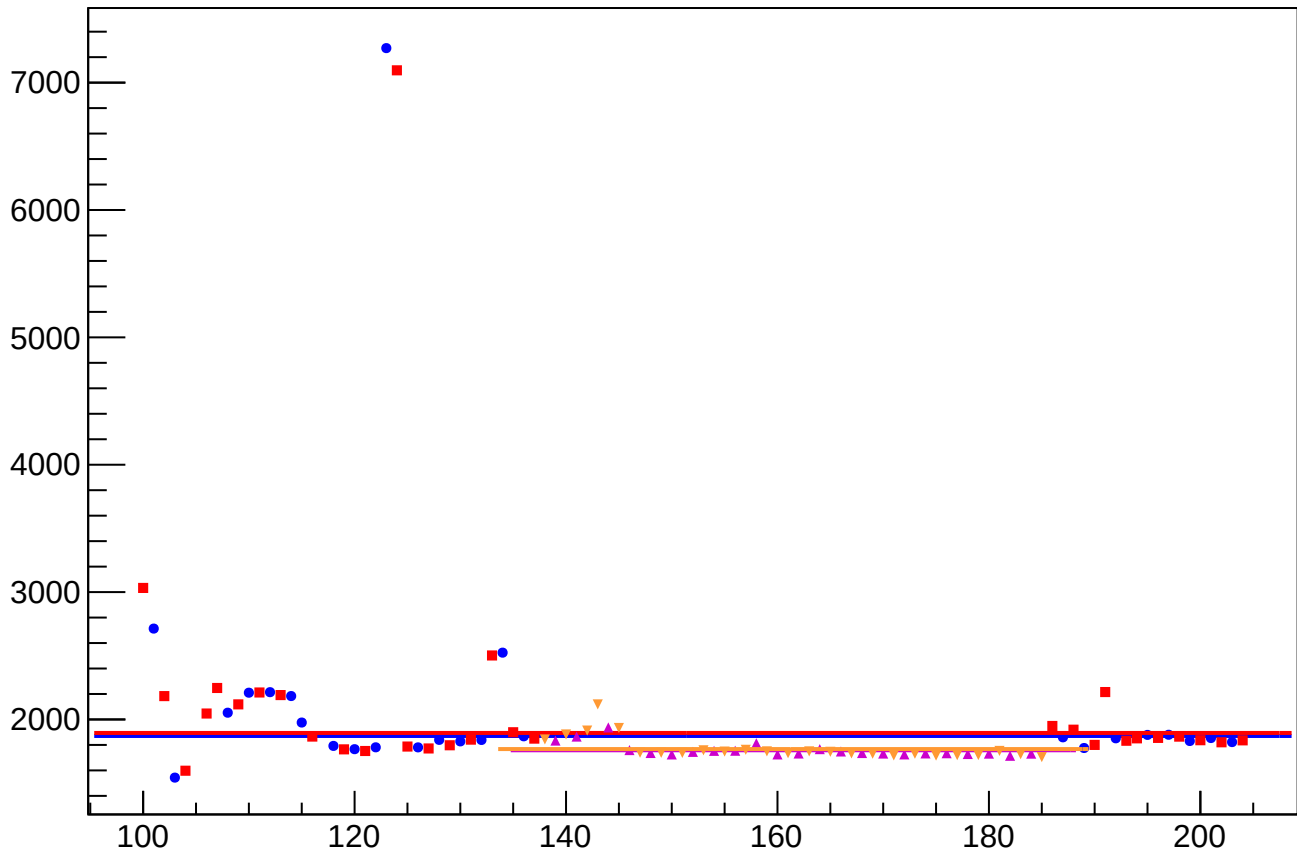
Right: 1773.699 $\pm$ 371.403 χ^2 /NDF: 52.3/54

In: 2600.702 $\pm$ 332.547 χ^2 /NDF:33.3/47

Out: 1158.061 $\pm$ 320.871 χ^2 /NDF:55.0/54

All: 1853.611 $\pm$ 230.908 χ^2 /NDF: 98.0/102

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1870.395+/-0.383 χ^2/NDF : 294198.1/24

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1894.086+/-0.361 χ^2/NDF : 382978.5/29

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

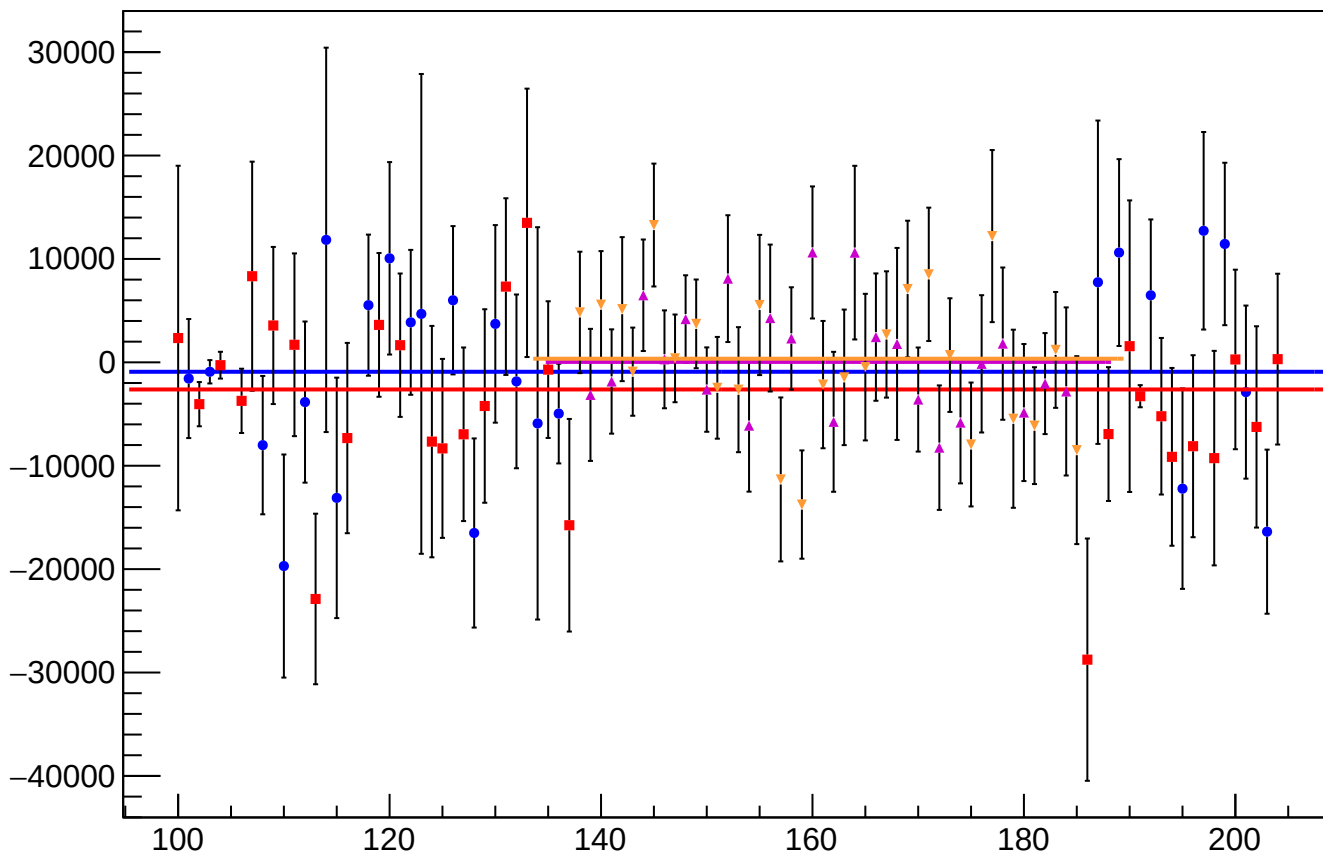
Right: 1882.937+/-0.263 χ^2/NDF : 679205.6/54

In: 1800.484+/-0.235 χ^2/NDF : 377622.7/47

Out: 1817.541+/-0.227 χ^2/NDF : 535079.1/54

All: 1809.320+/-0.163 χ^2/NDF : 915427.5/102

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -913.083+/-939.449 χ^2/NDF : 26.2/24

Left Out: 351.227+/-1170.051 χ^2/NDF : 27.8/24

Right Out: -2623.658+/-685.508 χ^2/NDF : 26.6/29

Left In: 40.618+/-1207.491 χ^2/NDF : 16.0/22

Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

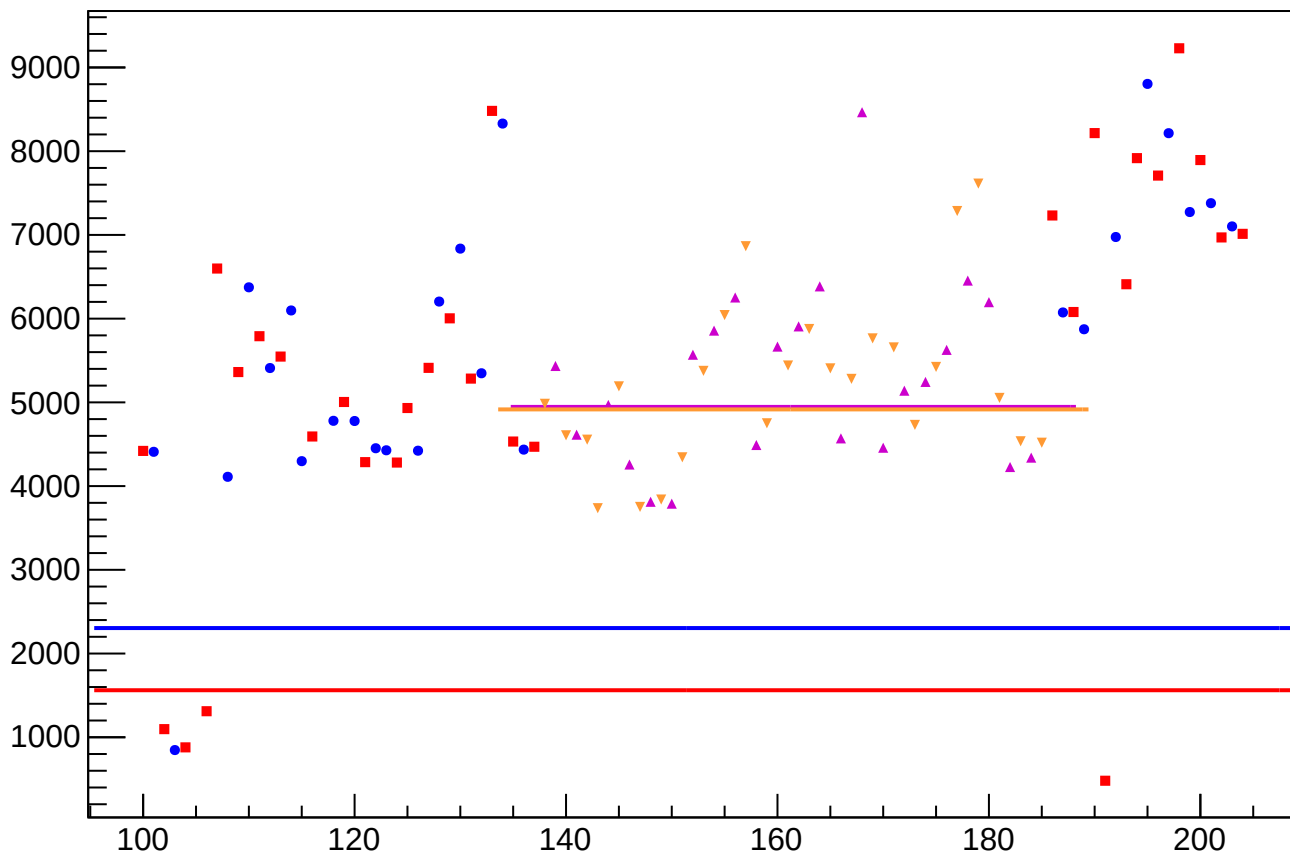
Right: -2029.318+/-553.757 χ^2/NDF : 55.0/54

In: -553.474+/-741.470 χ^2/NDF : 42.6/47

Out: -1863.459+/-591.471 χ^2/NDF : 59.2/54

All: -1354.038+/-462.380 χ^2/NDF : 103.8/102

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2304.332+/-0.664

χ^2/NDF : 12113505.1/24

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1819.728+/-0.392

χ^2/NDF : 29773266.2/54

Right Out: 1561.700+/-0.485

χ^2/NDF : 16844222.5/29

In: 3300.350+/-0.524

χ^2/NDF : 19263893.6/47

Out: 2418.821+/-0.418

χ^2/NDF : 30266456.9/54

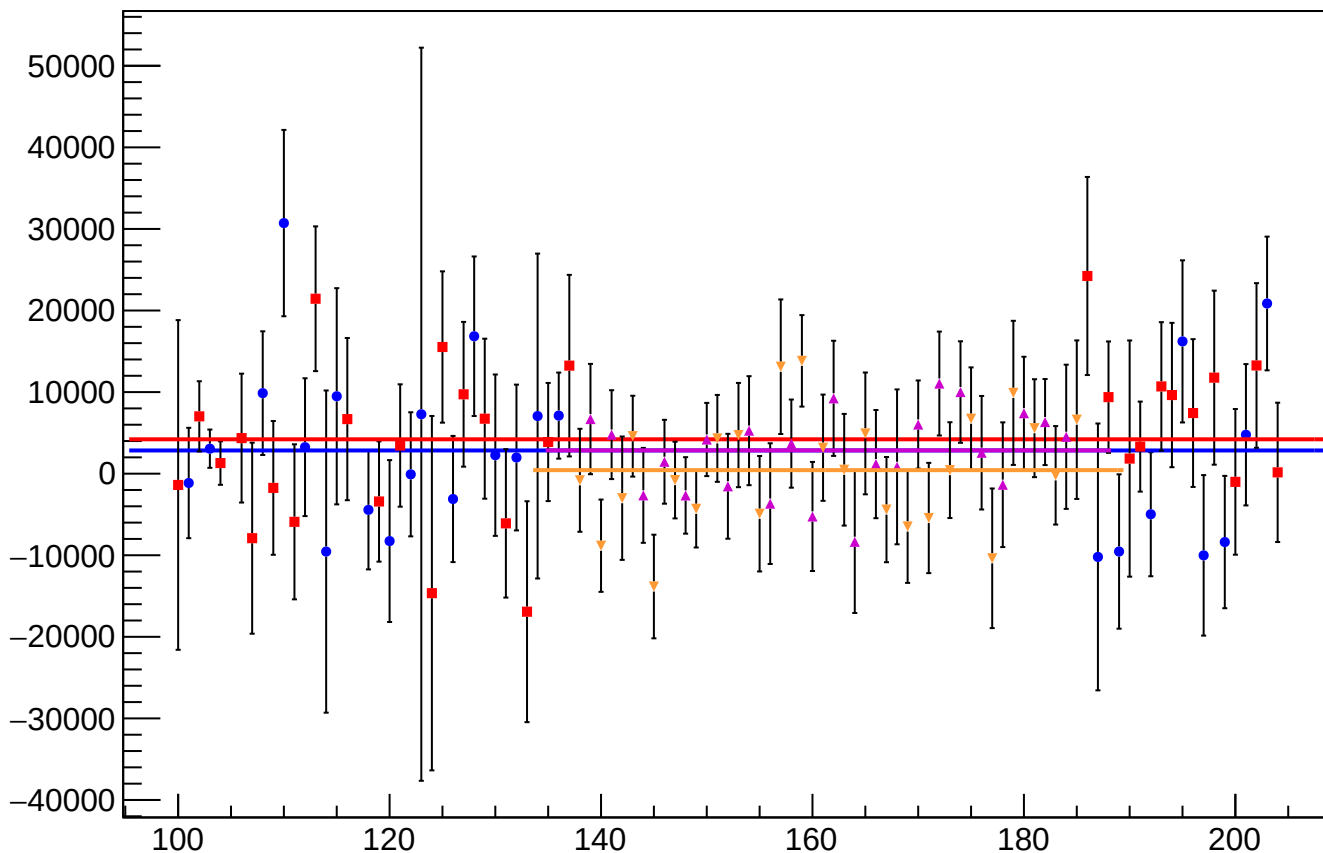
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2761.626+/-0.327

χ^2/NDF : 51257963.6/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2845.058+/-1440.040 χ^2/NDF : 27.3/24

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4213.981+/-1362.716 χ^2/NDF : 22.8/29

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

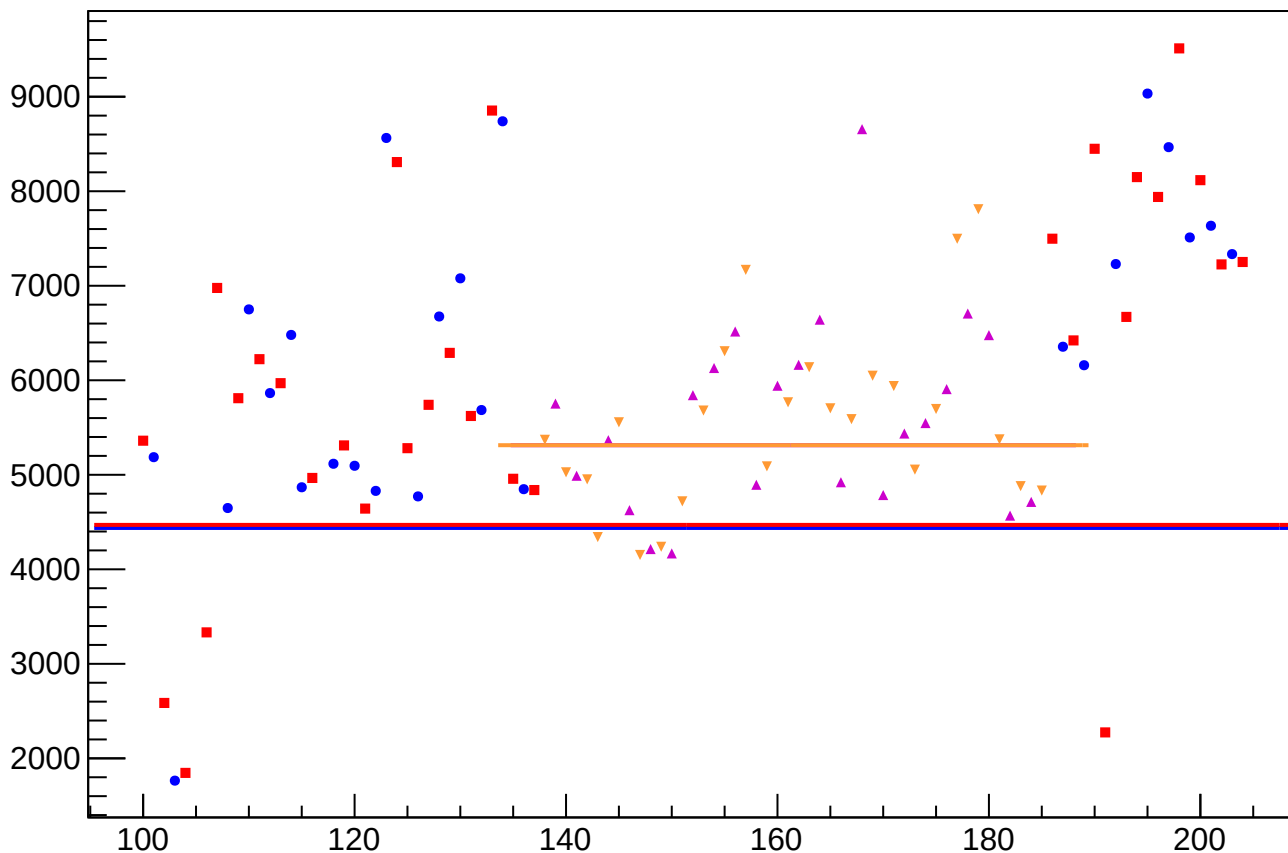
Right: 3567.257+/-989.793 χ^2/NDF : 50.6/54

In: 2853.474+/-961.811 χ^2/NDF : 40.2/47

Out: 2171.907+/-924.455 χ^2/NDF : 54.1/54

All: 2499.198+/-666.503 χ^2/NDF : 94.5/102

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4437.663+/-1.018 χ^2/NDF : 5168358.4/24

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4469.970+/-0.959 χ^2/NDF : 5812316.9/29

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

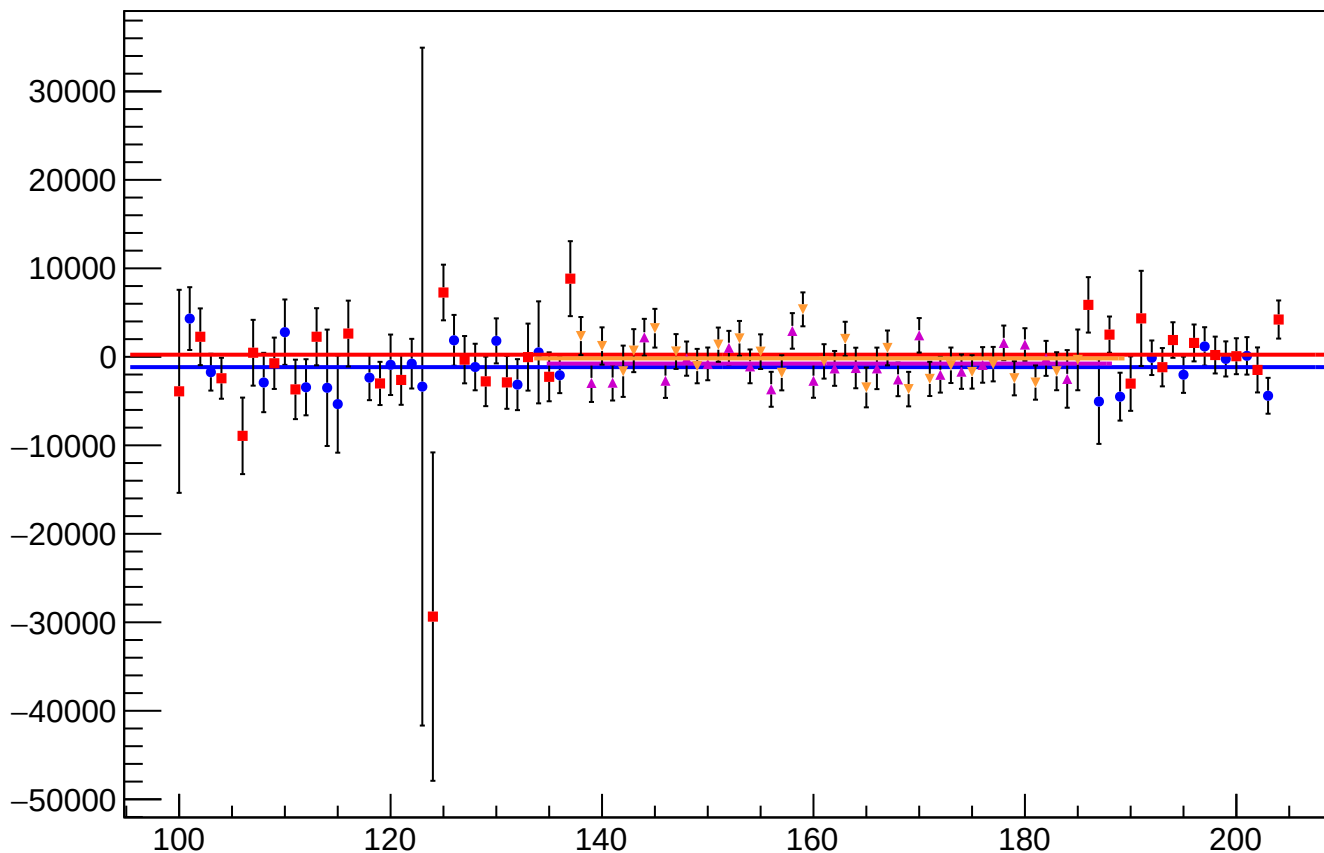
Right: 4454.785+/-0.698 χ^2/NDF : 10981208.8/54

In: 4922.437+/-0.680 χ^2/NDF : 6534950.8/47

Out: 4923.016+/-0.652 χ^2/NDF : 7122006.9/54

All: 4922.739+/-0.471 χ^2/NDF : 13656958.0/1

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1162.834 ± 540.310 χ^2/NDF : 15.5/24

Left Out: -179.794 ± 410.976 χ^2/NDF : 29.3/24

Right Out: 242.811 ± 510.079 χ^2/NDF : 37.8/29

Left In: -759.753 ± 419.905 χ^2/NDF : 20.3/22

Left: -463.542 ± 293.710 χ^2/NDF : 50.5/47

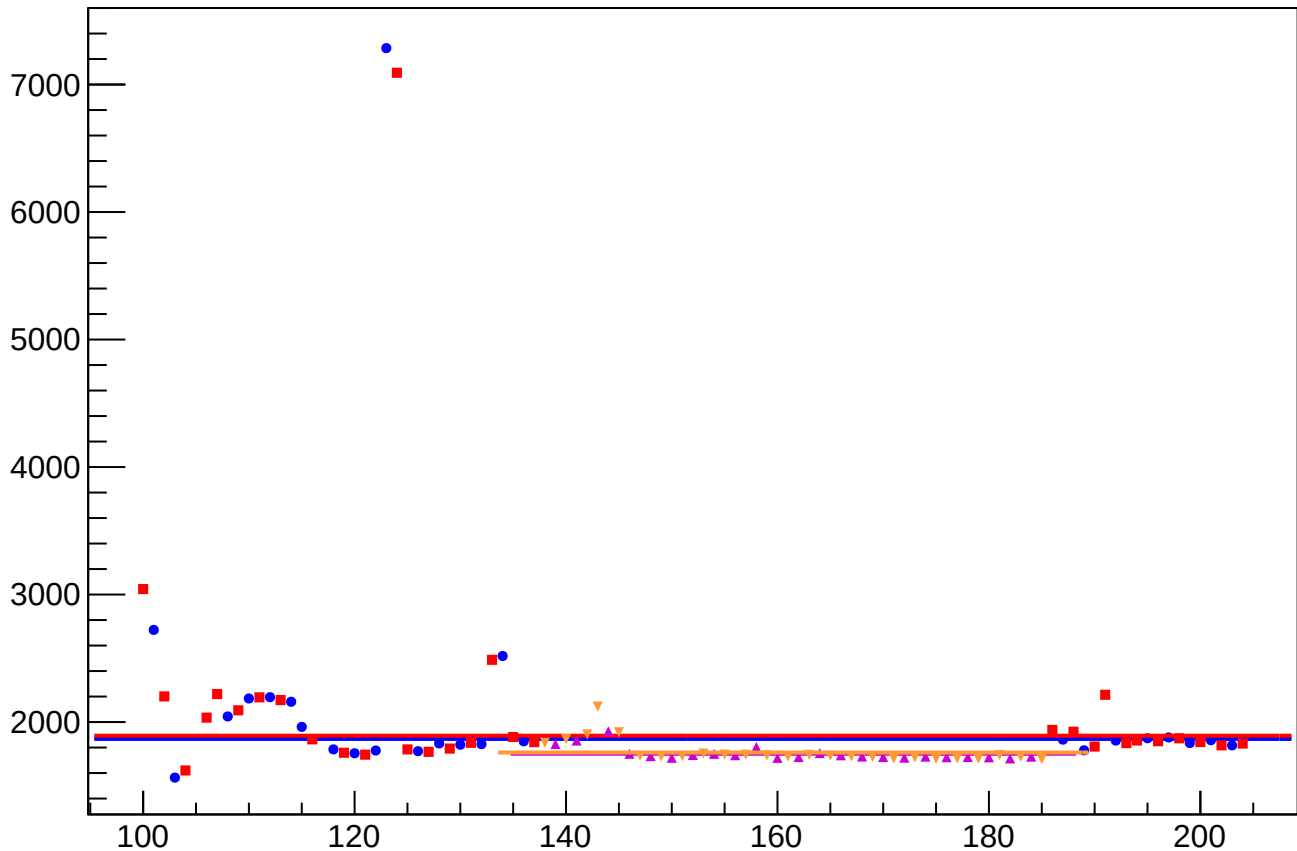
Right: -419.590 ± 370.907 χ^2/NDF : 56.9/54

In: -911.532 ± 331.553 χ^2/NDF : 36.1/47

Out: -13.442 ± 320.025 χ^2/NDF : 67.5/54

All: -446.603 ± 230.259 χ^2/NDF : 107.4/102

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1867.716 $\pm$ 0.382 χ^2 /NDF: 284678.3/24

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1892.729 $\pm$ 0.360 χ^2 /NDF: 370626.0/29

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

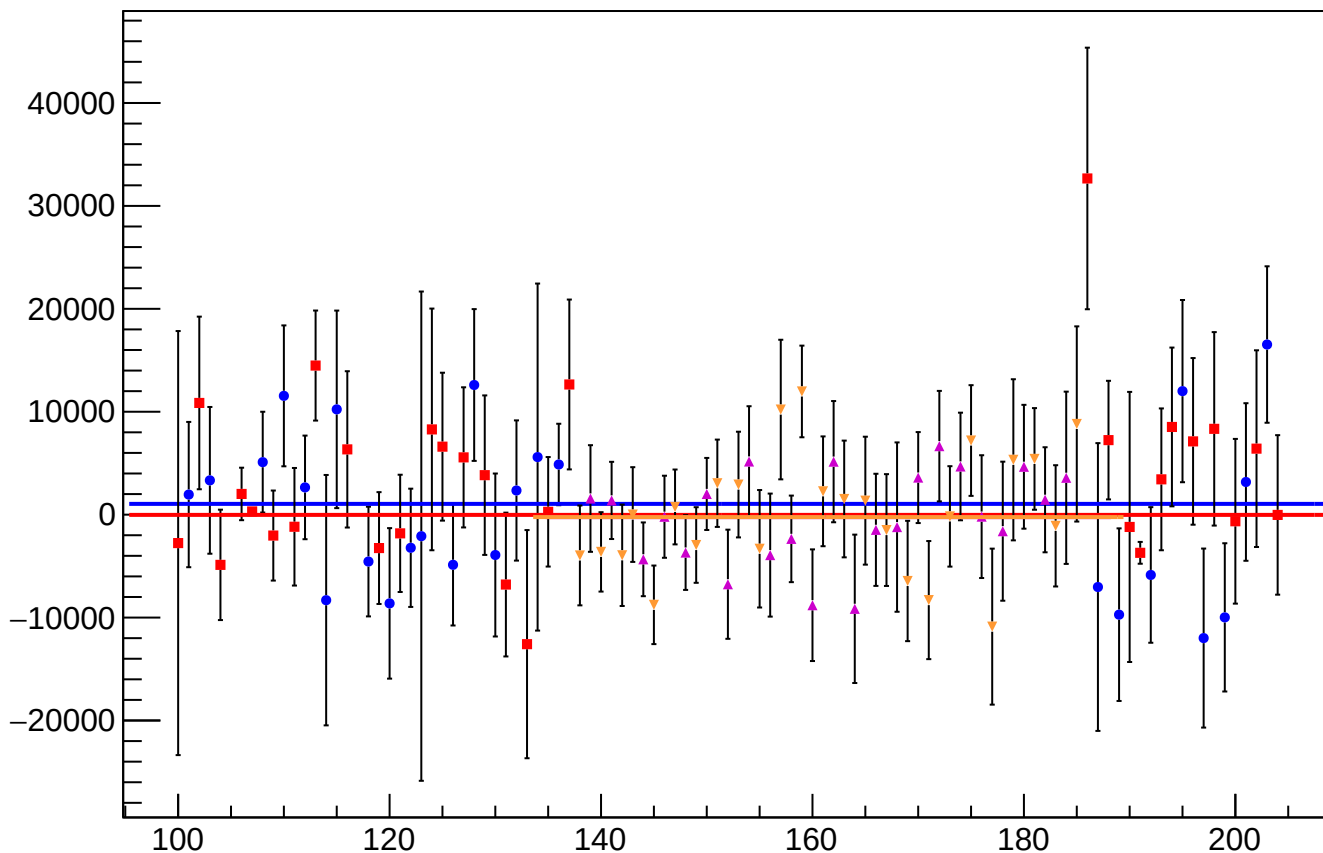
Right: 1880.951 $\pm$ 0.262 χ^2 /NDF: 657572.3/54

In: 1795.210 $\pm$ 0.234 χ^2 /NDF: 371026.3/47

Out: 1812.955 $\pm$ 0.226 χ^2 /NDF: 528939.0/54

All: 1804.399 $\pm$ 0.163 χ^2 /NDF: 902932.1/102

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1047.175+/-1386.880 χ^2/NDF : 26.5/24

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: -21.922+/-411.804 χ^2/NDF : 43.1/29

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

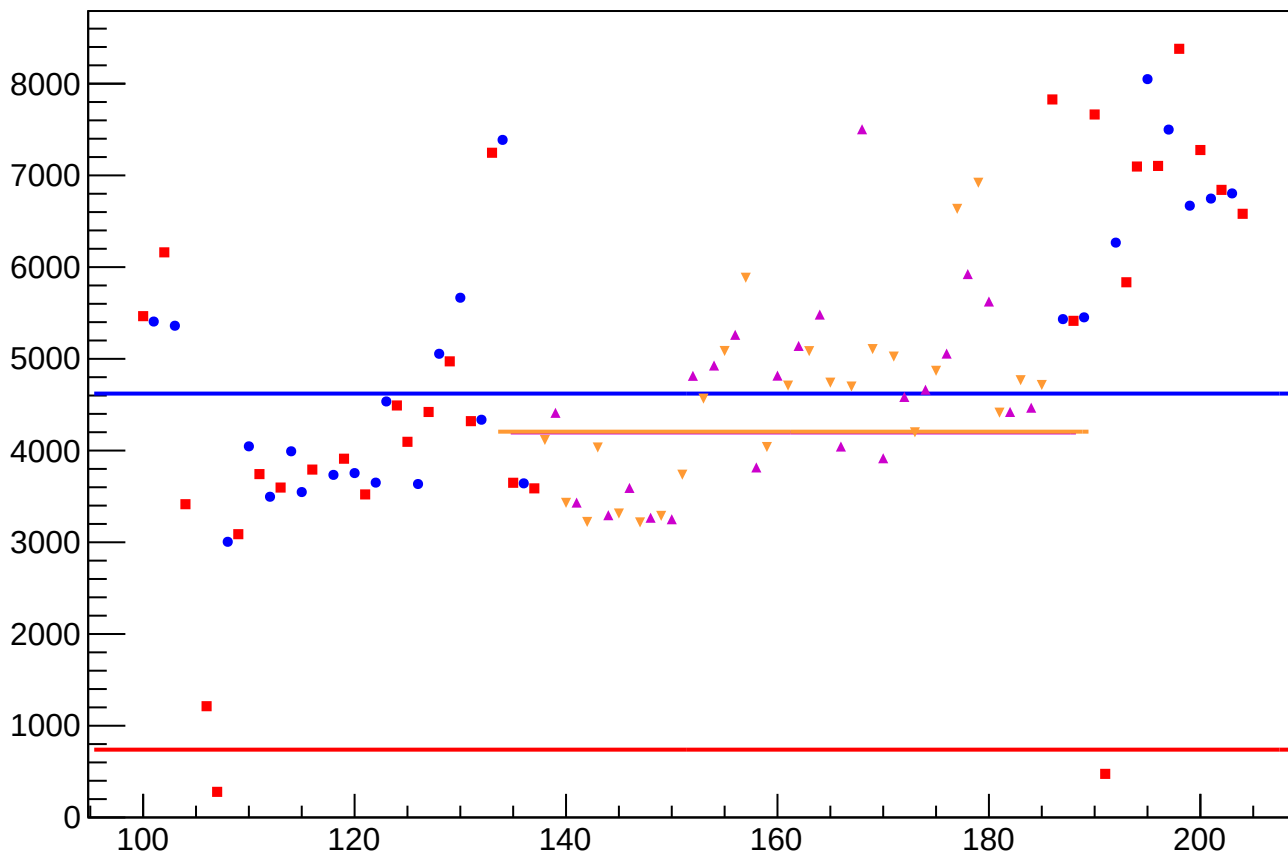
Right: 64.699+/-394.769 χ^2/NDF : 70.2/54

In: 217.438+/-826.320 χ^2/NDF : 42.4/47

Out: -52.663+/-381.063 χ^2/NDF : 72.0/54

All: -5.295+/-346.040 χ^2/NDF : 114.5/102

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4621.262 $\pm$ 0.981 χ^2 /NDF: 1977535.8/24

Left Out: 4206.076 $\pm$ 0.711 χ^2 /NDF: 1442269.3/24

Right Out: 739.208 $\pm$ 0.291 χ^2 /NDF: 21306475.3/29

Left In: 4197.267 $\pm$ 0.728 χ^2 /NDF: 1471012.9/22

Left: 4201.775 $\pm$ 0.508 χ^2 /NDF: 2913357.2/47

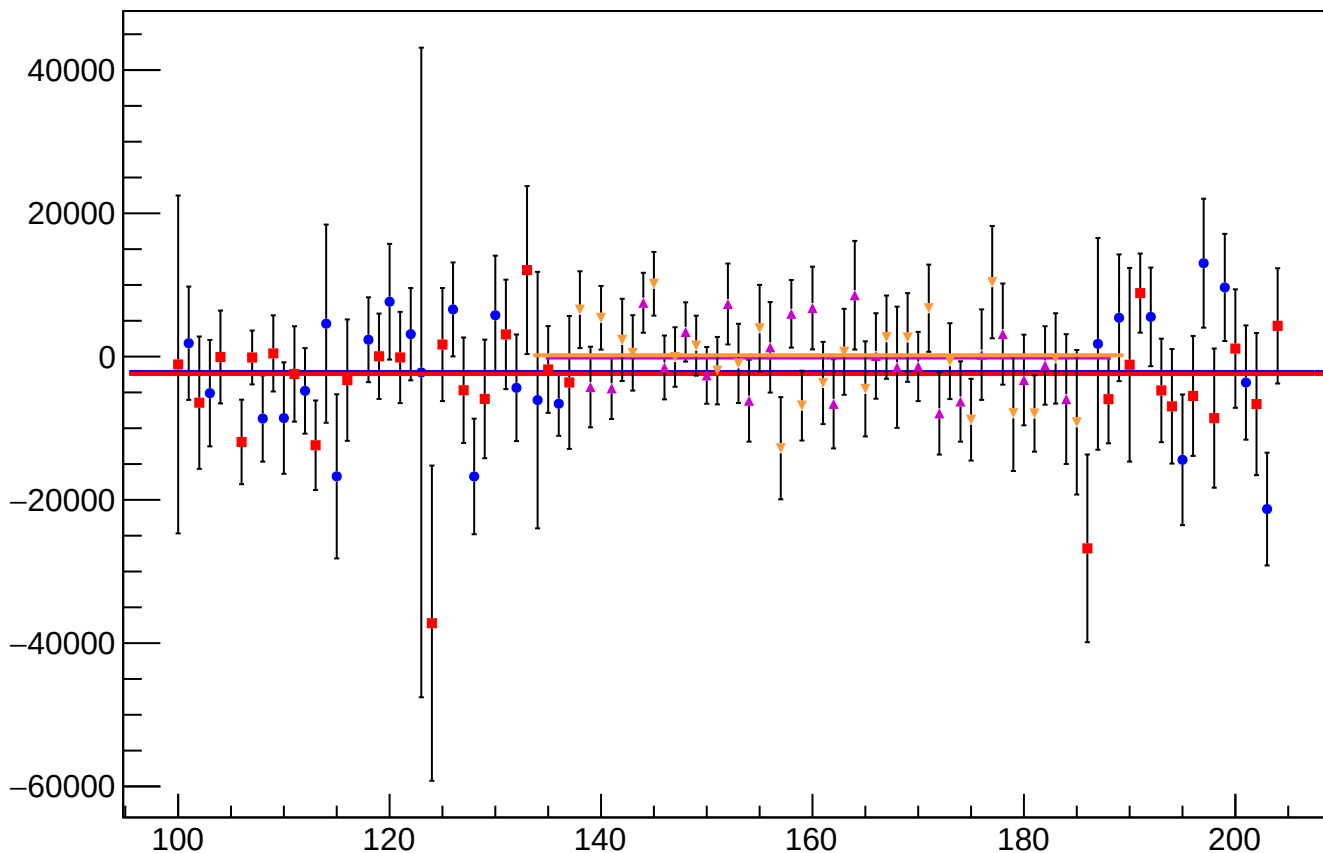
Right: 1053.743 $\pm$ 0.279 χ^2 /NDF: 37684602.2/54

In: 4347.782 $\pm$ 0.584 χ^2 /NDF: 3569118.5/47

Out: 1237.489 $\pm$ 0.269 χ^2 /NDF: 43122026.5/54

All: 1782.941 $\pm$ 0.245 χ^2 /NDF: 70057718.4/101

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2155.801+/-1535.400 χ^2/NDF : 29.2/24

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2425.948+/-1322.223 χ^2/NDF : 21.5/29

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

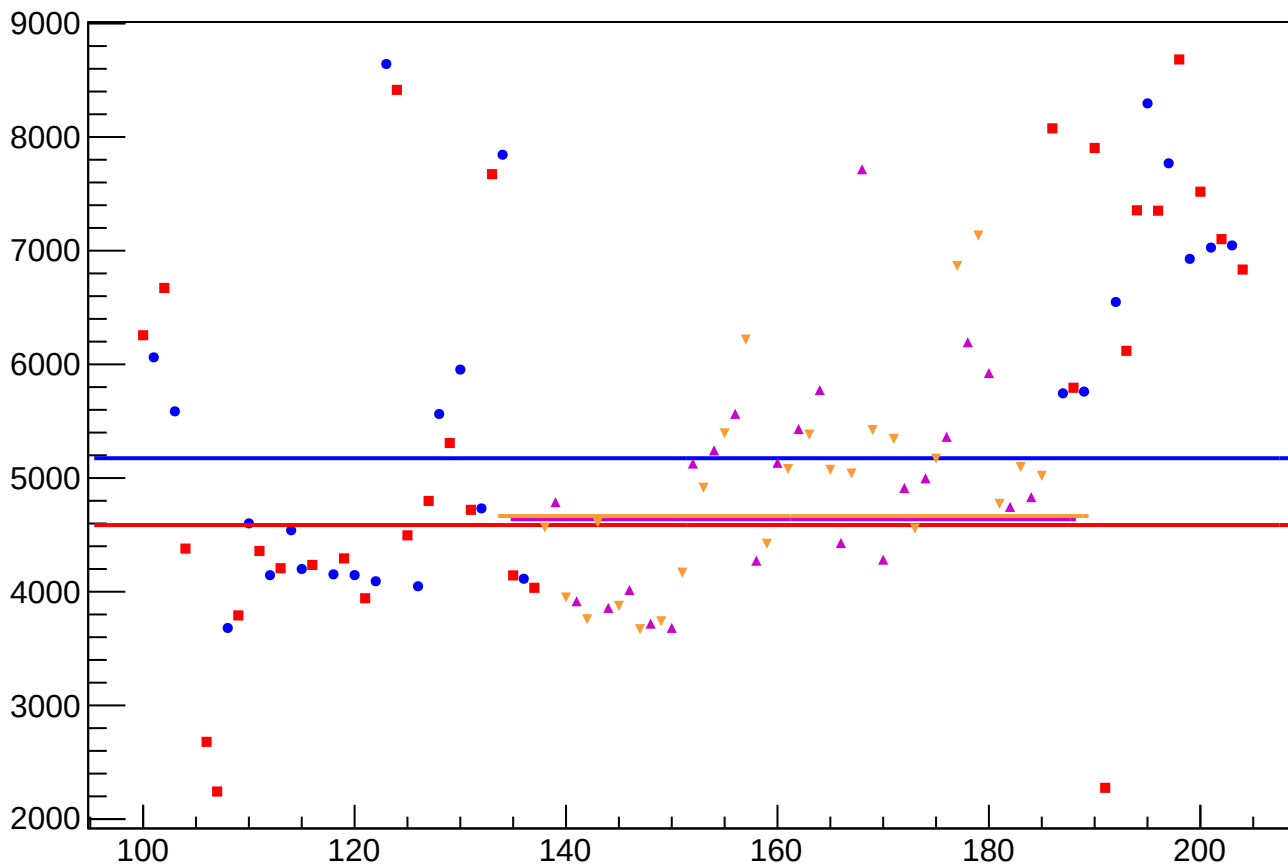
Right: -2310.916+/-1001.916 χ^2/NDF : 50.8/54

In: -846.319+/-909.914 χ^2/NDF : 49.0/47

Out: -888.007+/-848.726 χ^2/NDF : 48.8/54

All: -868.612+/-620.645 χ^2/NDF : 97.8/102

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5174.405+/-1.086

χ^2/NDF : 1471121.7/24

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

Right Out: 4586.590+/-0.931

χ^2/NDF : 3586768.0/29

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559

χ^2/NDF : 2083072.1/47

Right: 4835.589+/-0.707

χ^2/NDF : 5226852.5/54

In: 4826.243+/-0.643

χ^2/NDF : 2694843.5/47

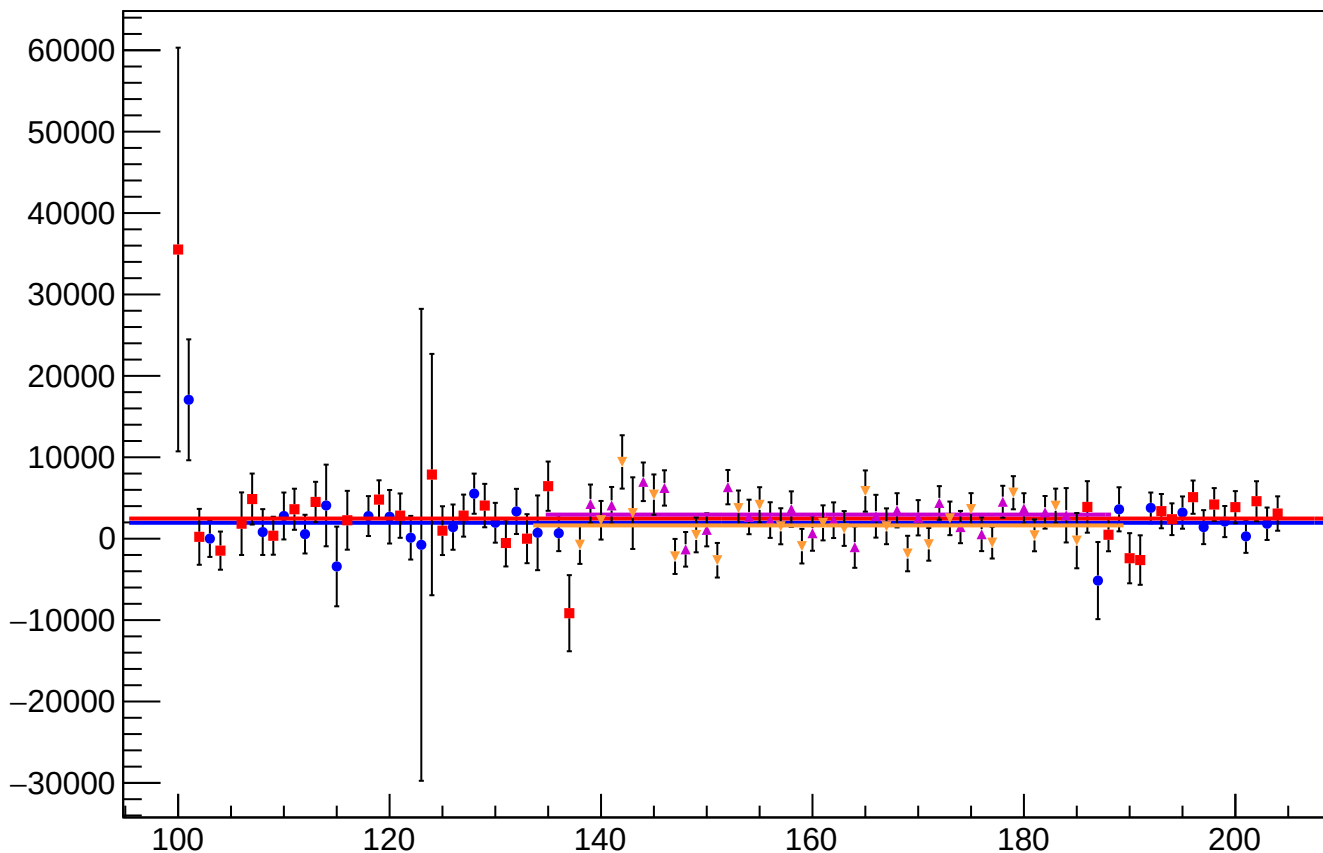
Out: 4632.884+/-0.599

χ^2/NDF : 4608226.4/54

All: 4722.664+/-0.438

χ^2/NDF : 7351449.6/100

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1955.871+/-521.156 χ^2/NDF : 15.0/24

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2474.386+/-482.091 χ^2/NDF : 29.2/29

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

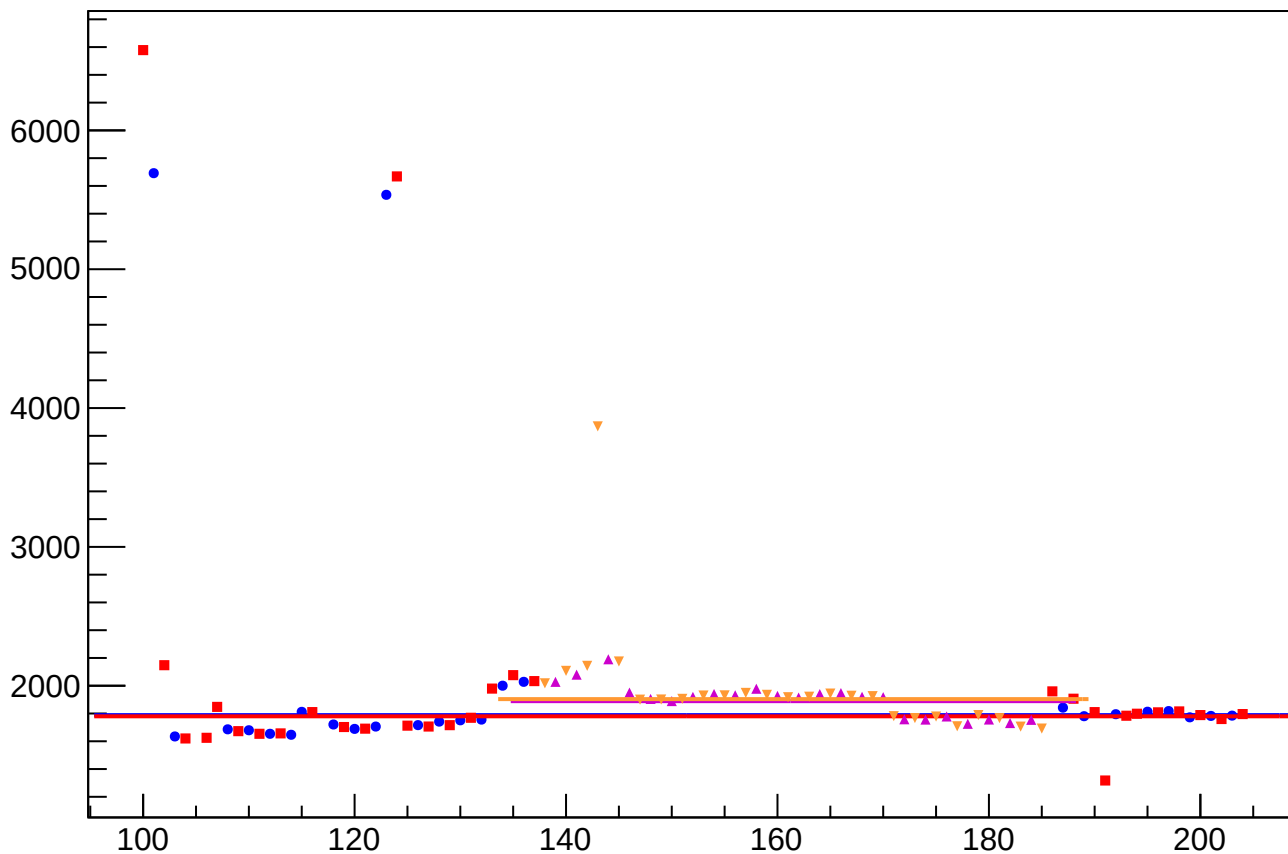
Right: 2235.289+/-353.895 χ^2/NDF : 44.7/54

In: 2526.314+/-342.190 χ^2/NDF : 37.5/47

Out: 2020.425+/-327.806 χ^2/NDF : 66.2/54

All: 2262.514+/-236.716 χ^2/NDF : 104.9/102

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1788.312+/-0.369 χ^2/NDF : 645877.7/24

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1779.723+/-0.340 χ^2/NDF : 368840.6/29

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

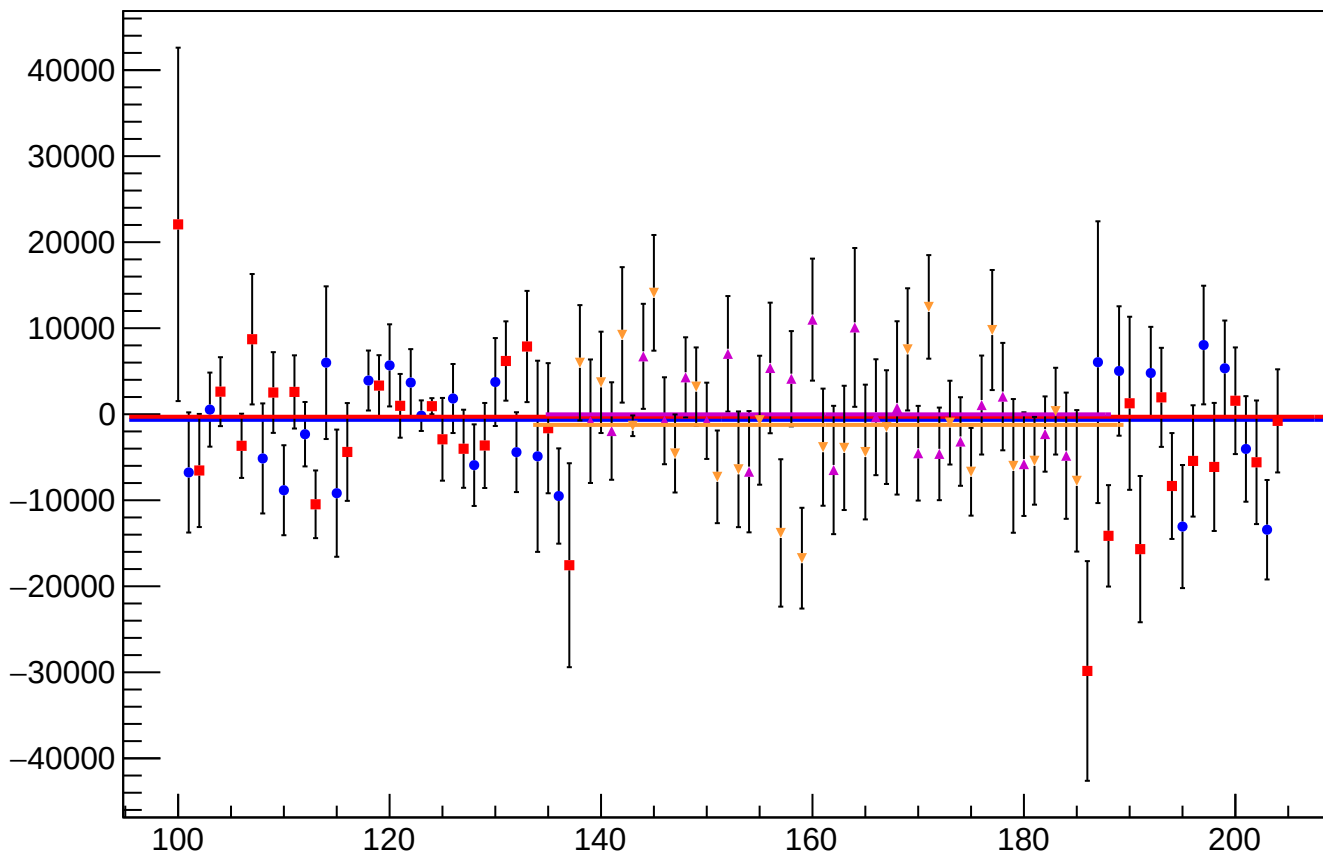
Right: 1783.669+/-0.250 χ^2/NDF : 1015012.0/54

In: 1845.550+/-0.242 χ^2/NDF : 814701.8/47

Out: 1846.124+/-0.231 χ^2/NDF : 981697.0/54

All: 1845.850+/-0.167 χ^2/NDF : 1796401.7/100

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -651.633+/-926.881 χ^2/NDF : 29.1/24

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: -293.423+/-685.470 χ^2/NDF : 40.8/29

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

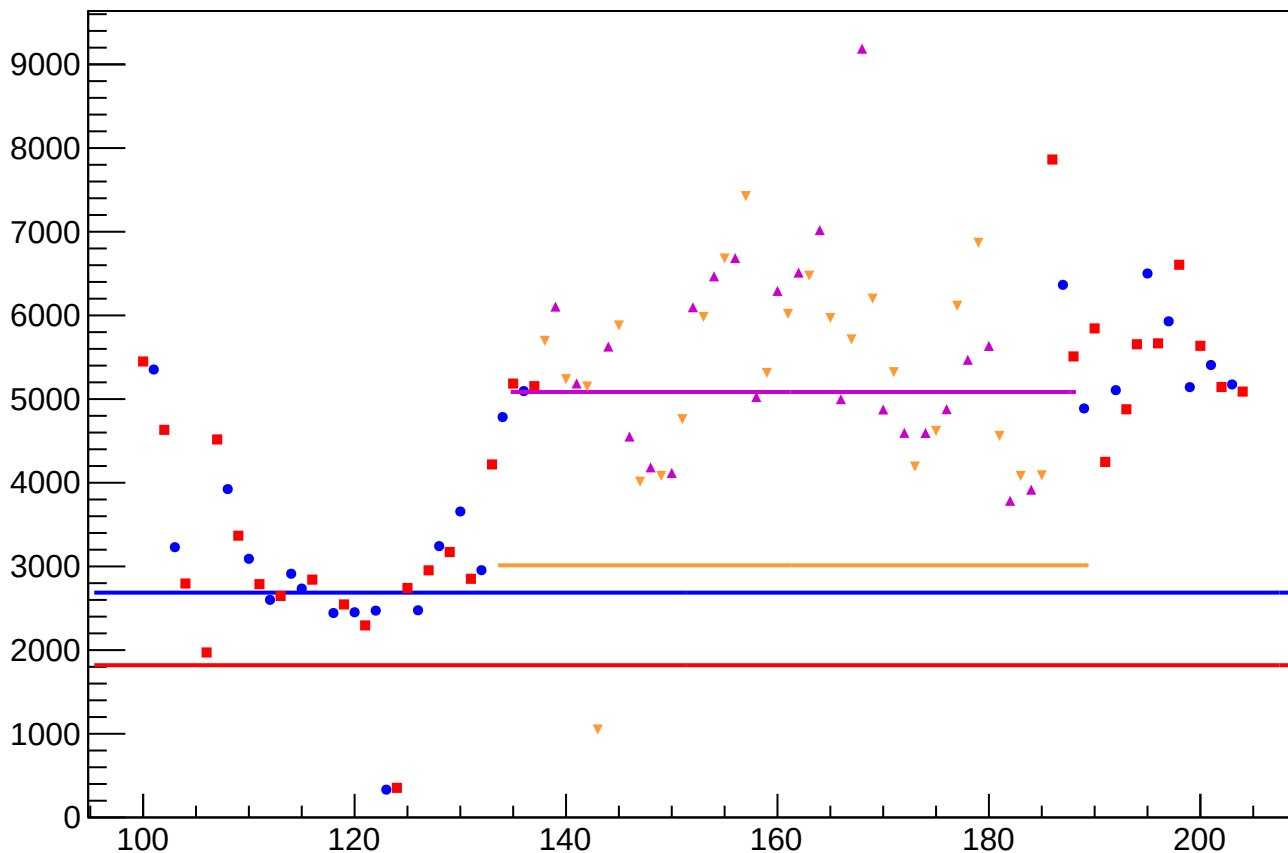
Right: -420.071+/-551.130 χ^2/NDF : 70.0/54

In: -424.520+/-743.110 χ^2/NDF : 42.5/47

Out: -658.388+/-537.283 χ^2/NDF : 75.5/54

All: -578.102+/-435.400 χ^2/NDF : 118.0/102

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2686.815 $\pm$ 0.655

χ^2 /NDF: 7345368.4/24

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

Right Out: 1819.609 $\pm$ 0.485

χ^2 /NDF: 13959307.4/29

Left In: 5084.645 $\pm$ 0.879

χ^2 /NDF: 1303587.7/22

Left: 3689.075 $\pm$ 0.502

χ^2 /NDF: 17314385.8/47

Right: 2126.216 $\pm$ 0.390

χ^2 /NDF: 22436441.6/54

In: 3543.381 $\pm$ 0.525

χ^2 /NDF: 13430426.4/47

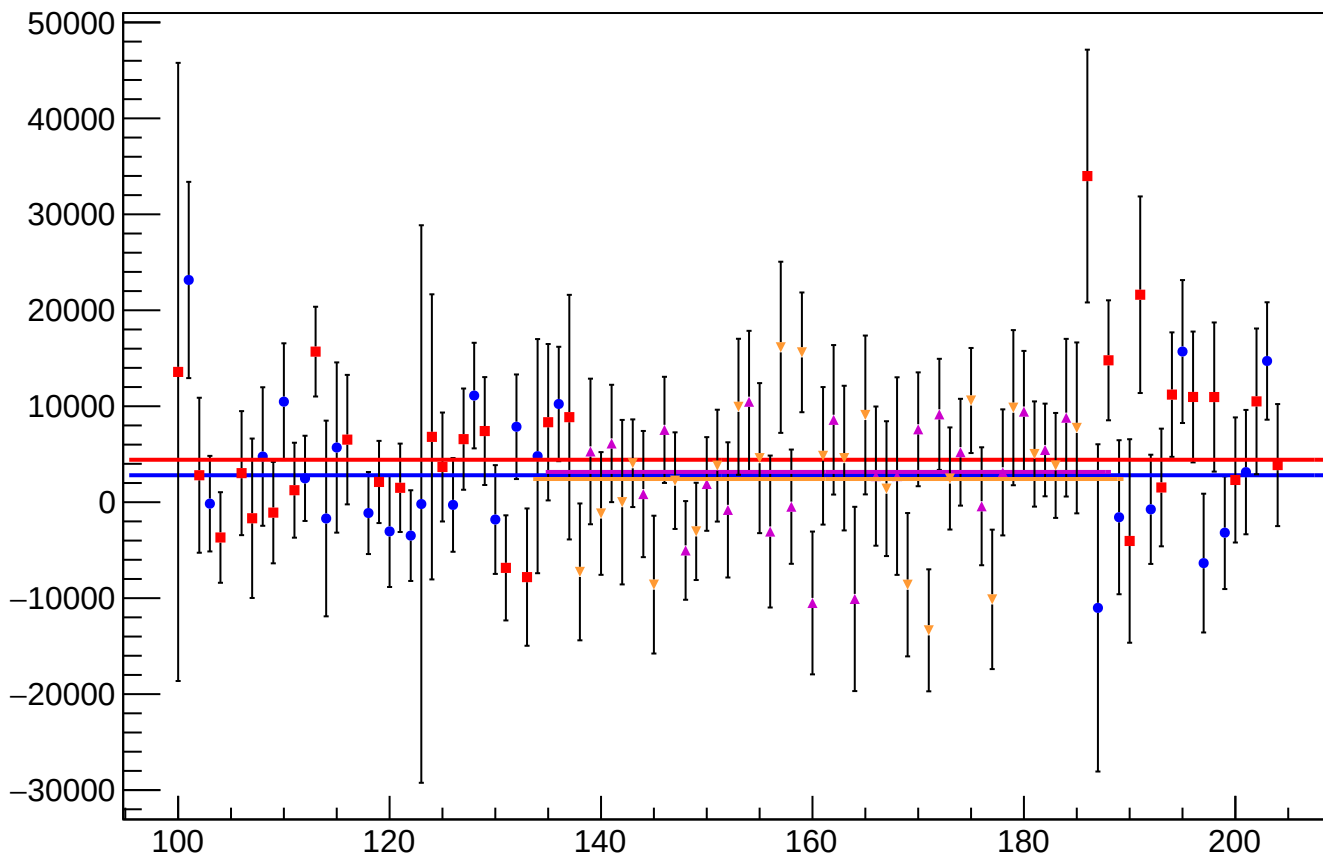
Out: 2279.922 $\pm$ 0.380

χ^2 /NDF: 28568819.0/54

All: 2713.663 $\pm$ 0.308

χ^2 /NDF: 45796025.3/101

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2809.627 $\pm$ 1249.291 χ^2 /NDF: 26.5/24

Left Out: 2417.210 $\pm$ 1286.482 χ^2 /NDF:29.9/24

Right Out: 4423.573 $\pm$ 1173.078 χ^2 /NDF: 34.7/29

Left In: 3153.449 $\pm$ 1337.378 χ^2 /NDF:15.5/22

Left: 2771.054 $\pm$ 927.151 χ^2 /NDF: 45.5/47

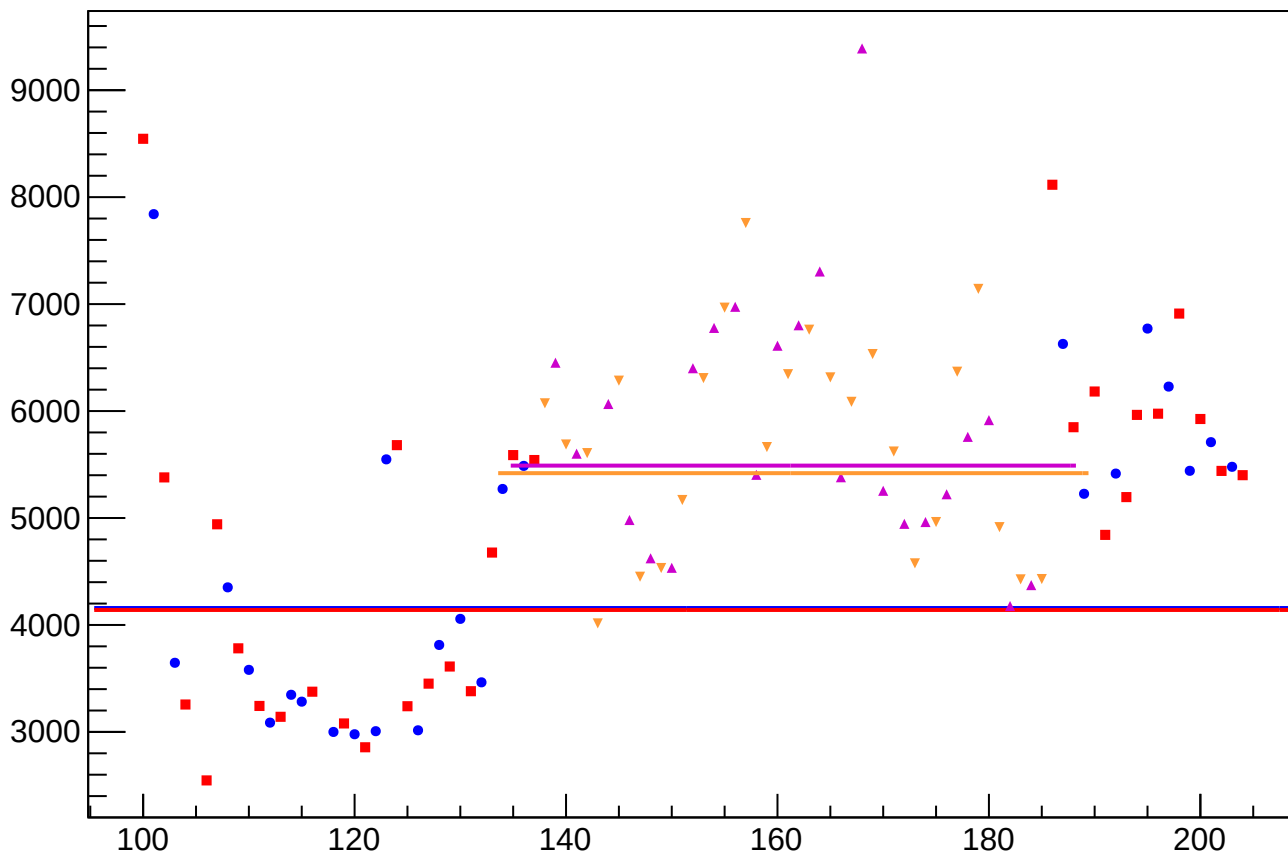
Right: 3667.329 $\pm$ 855.166 χ^2 /NDF: 62.1/54

In: 2969.843 $\pm$ 912.936 χ^2 /NDF:42.0/47

Out: 3512.704 $\pm$ 866.816 χ^2 /NDF:65.9/54

All: 3255.332 $\pm$ 628.604 χ^2 /NDF: 108.1/102

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4158.330+/-0.883 χ^2/NDF : 1956639.4/24

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4140.329+/-0.821 χ^2/NDF : 2420463.8/29

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

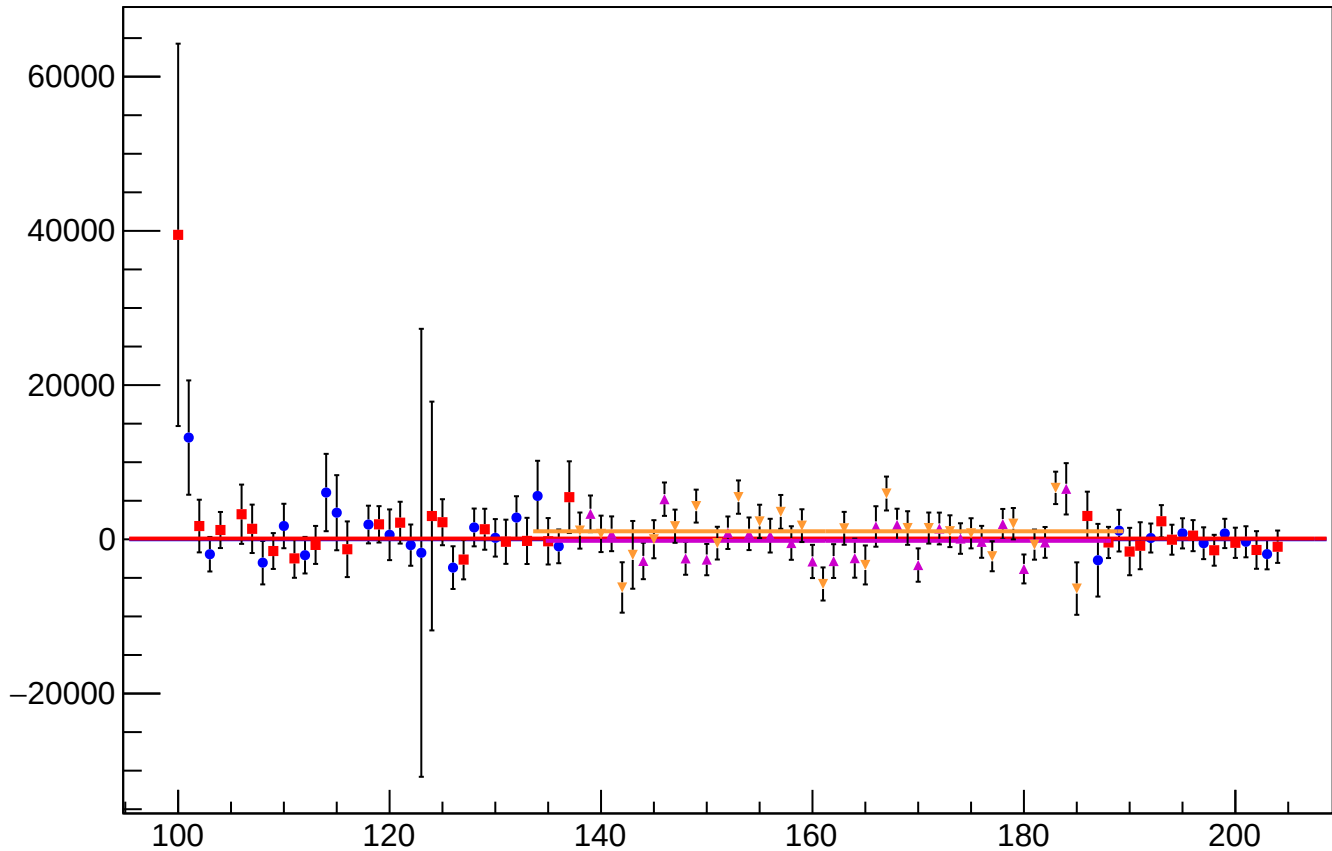
Right: 4148.672+/-0.601 χ^2/NDF : 4377326.0/54

In: 4778.812+/-0.646 χ^2/NDF : 4079747.0/47

Out: 4714.532+/-0.610 χ^2/NDF : 4619702.4/54

All: 4744.829+/-0.443 χ^2/NDF : 8704691.2/100

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 9.063 ± 518.552 χ^2/NDF : 15.6/24

Left Out: 1041.262 ± 446.249 χ^2/NDF : 48.6/24

Right Out: 96.985 ± 479.900 χ^2/NDF : 13.8/29

Left In: -191.966 ± 453.055 χ^2/NDF : 30.0/22

Left: 433.980 ± 317.925 χ^2/NDF : 82.3/47

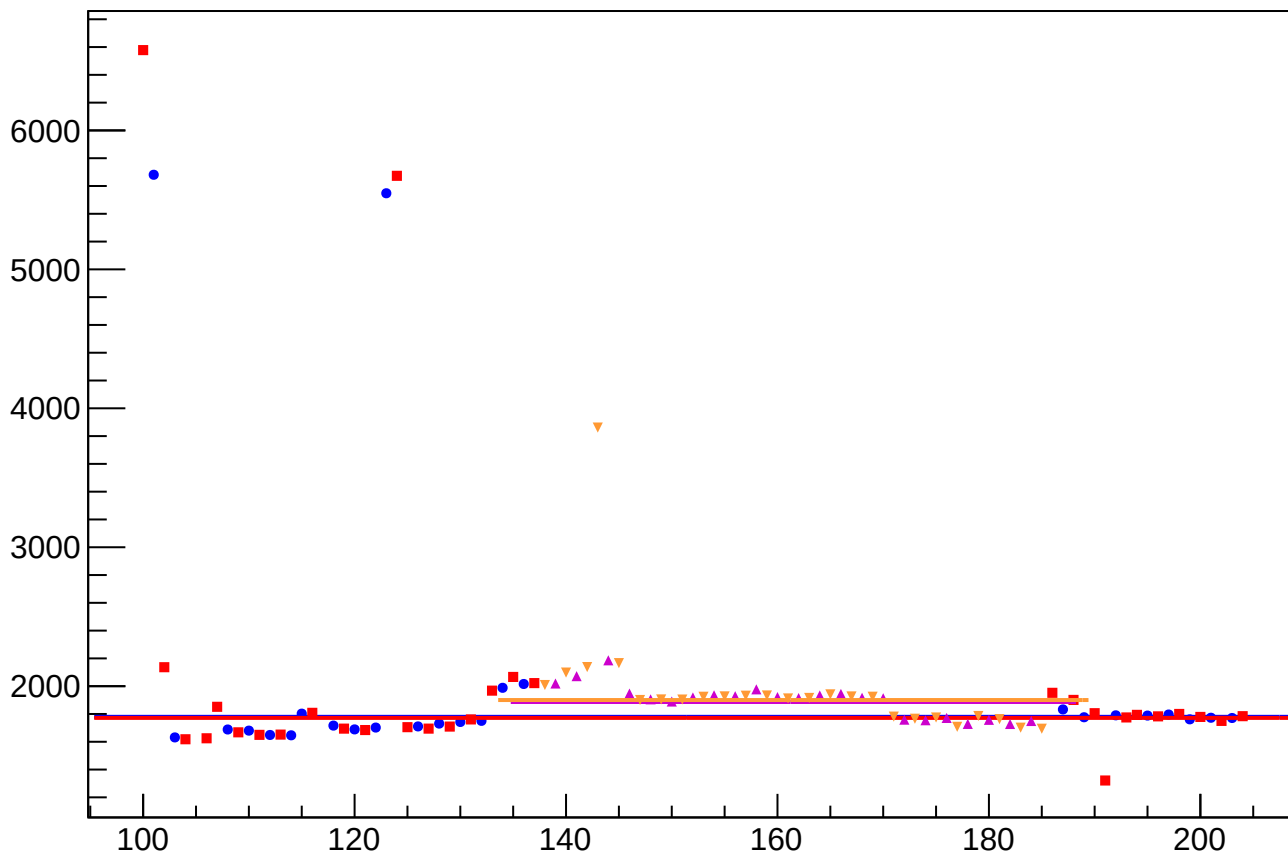
Right: 56.422 ± 352.213 χ^2/NDF : 29.5/54

In: -104.942 ± 341.180 χ^2/NDF : 45.7/47

Out: 603.387 ± 326.795 χ^2/NDF : 64.5/54

All: 264.469 ± 236.000 χ^2/NDF : 112.4/102

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1779.482+/-0.367 χ^2/NDF : 643722.6/24

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1771.858+/-0.338 χ^2/NDF : 365480.7/29

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

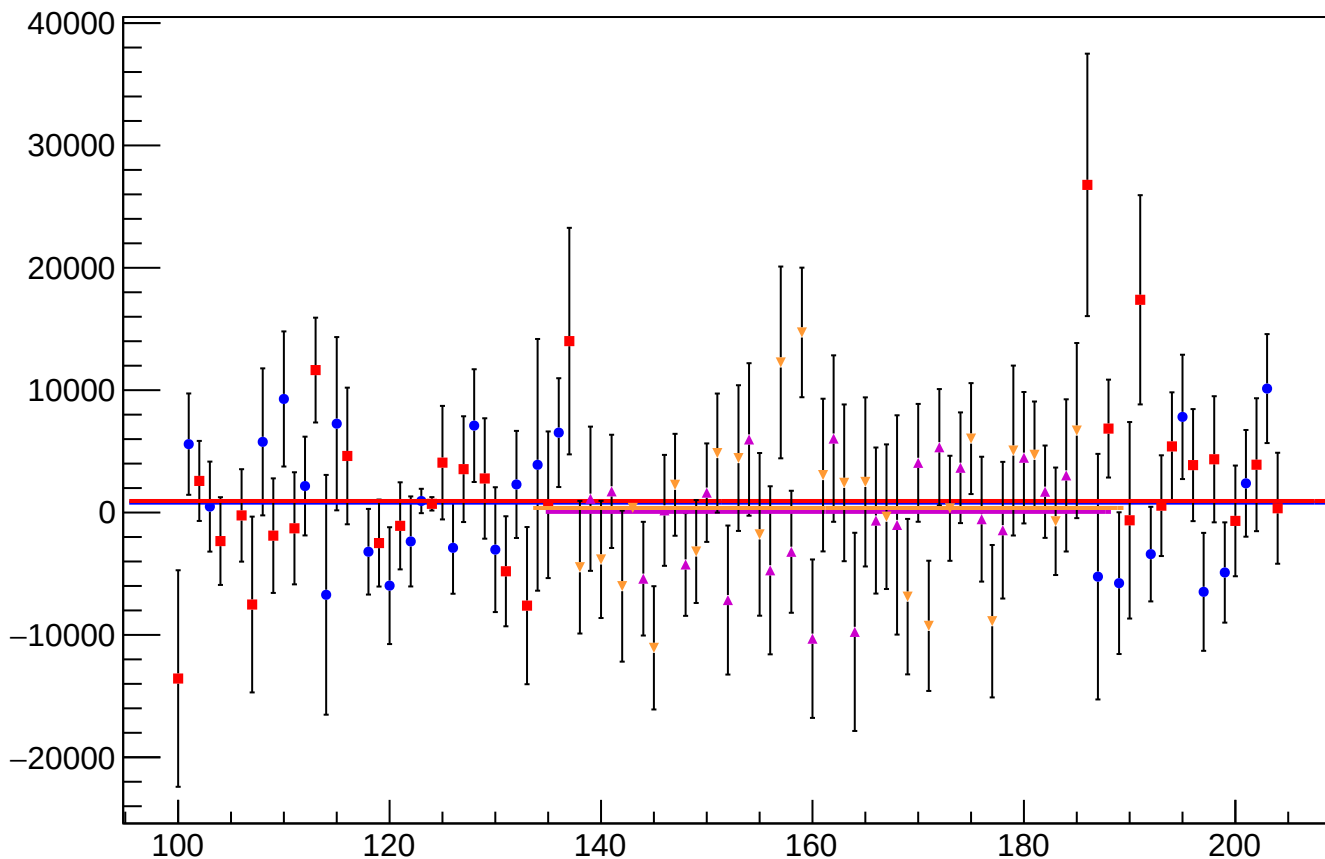
Right: 1775.362+/-0.249 χ^2/NDF : 1009436.9/54

In: 1840.103+/-0.241 χ^2/NDF : 815441.0/47

Out: 1840.520+/-0.231 χ^2/NDF : 980478.1/54

All: 1840.321+/-0.167 χ^2/NDF : 1795920.7/10

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 807.731+/-687.902 χ^2/NDF : 28.8/24

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 944.255+/-465.154 χ^2/NDF : 34.4/29

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

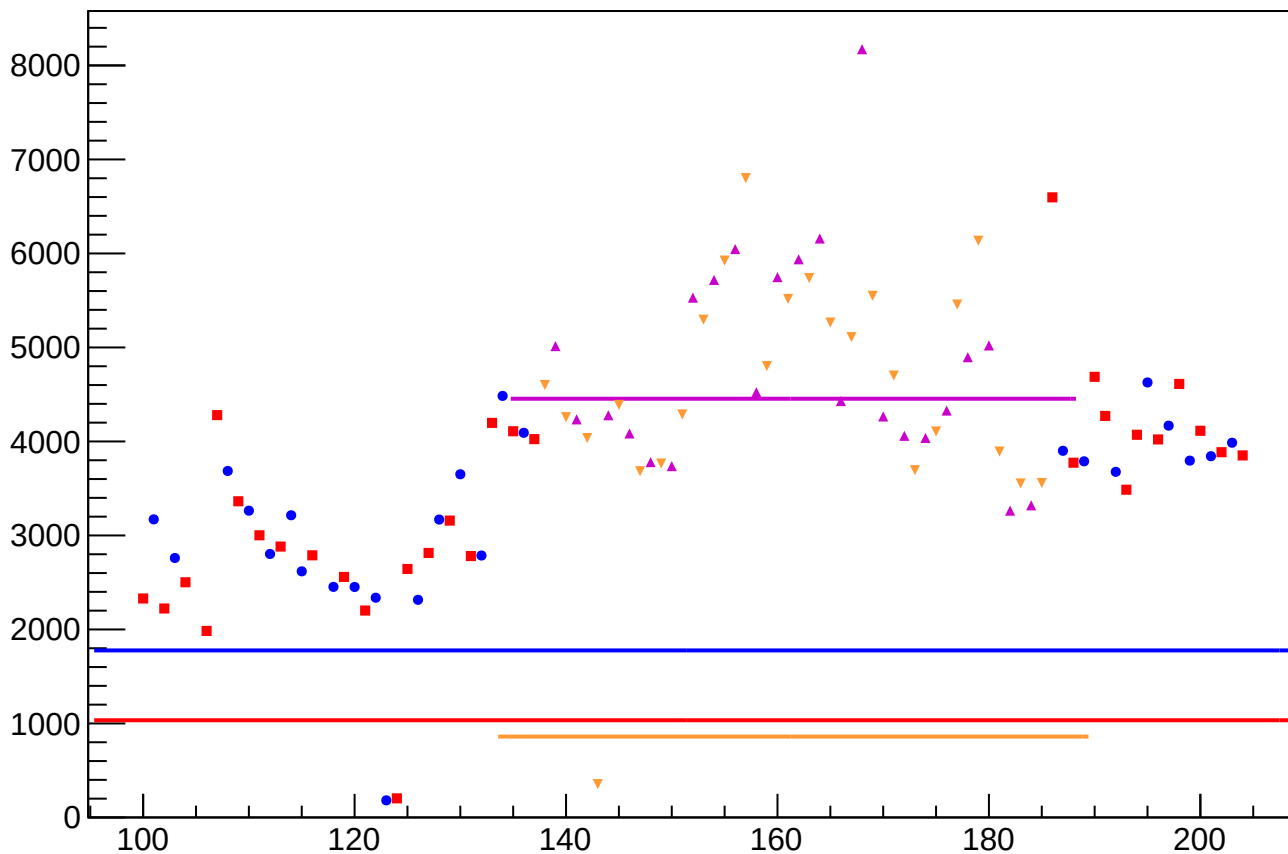
Right: 901.418+/-385.329 χ^2/NDF : 63.2/54

In: 592.749+/-581.722 χ^2/NDF :43.6/47

Out: 603.306+/-295.243 χ^2/NDF :66.1/54

All: 601.144+/-263.275 χ^2/NDF : 109.7/102

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1776.940 $\pm$ 0.486 χ^2 /NDF: 10858162.2/24

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1034.092 $\pm$ 0.329 χ^2 /NDF: 18161151.4/29

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

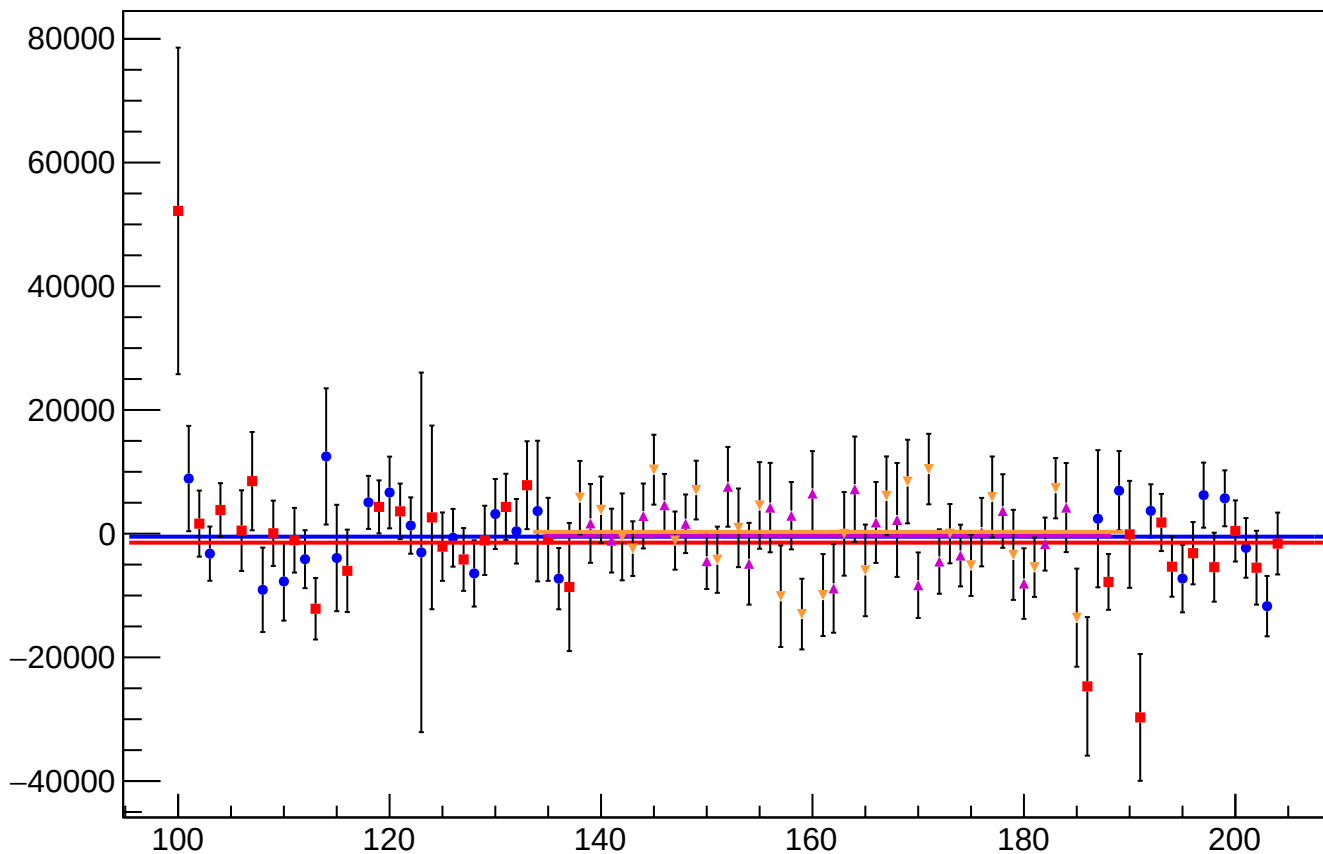
Right: 1267.175 $\pm$ 0.272 χ^2 /NDF: 30619779.1/54

In: 2539.704 $\pm$ 0.411 χ^2 /NDF: 20839491.5/47

Out: 930.462 $\pm$ 0.209 χ^2 /NDF: 44667499.5/54

All: 1260.080 $\pm$ 0.186 χ^2 /NDF: 77677354.3/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -485.013 ± 1117.811 $\chi^2/\text{NDF}: 26.5/24$

Left Out: 288.508 ± 1155.419 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -1448.194 ± 1046.881 $\chi^2/\text{NDF}: 35.9/29$

Left In: -332.488 ± 1196.011 $\chi^2/\text{NDF}: 14.7/22$

Left: -11.273 ± 830.984 $\chi^2/\text{NDF}: 47.2/47$

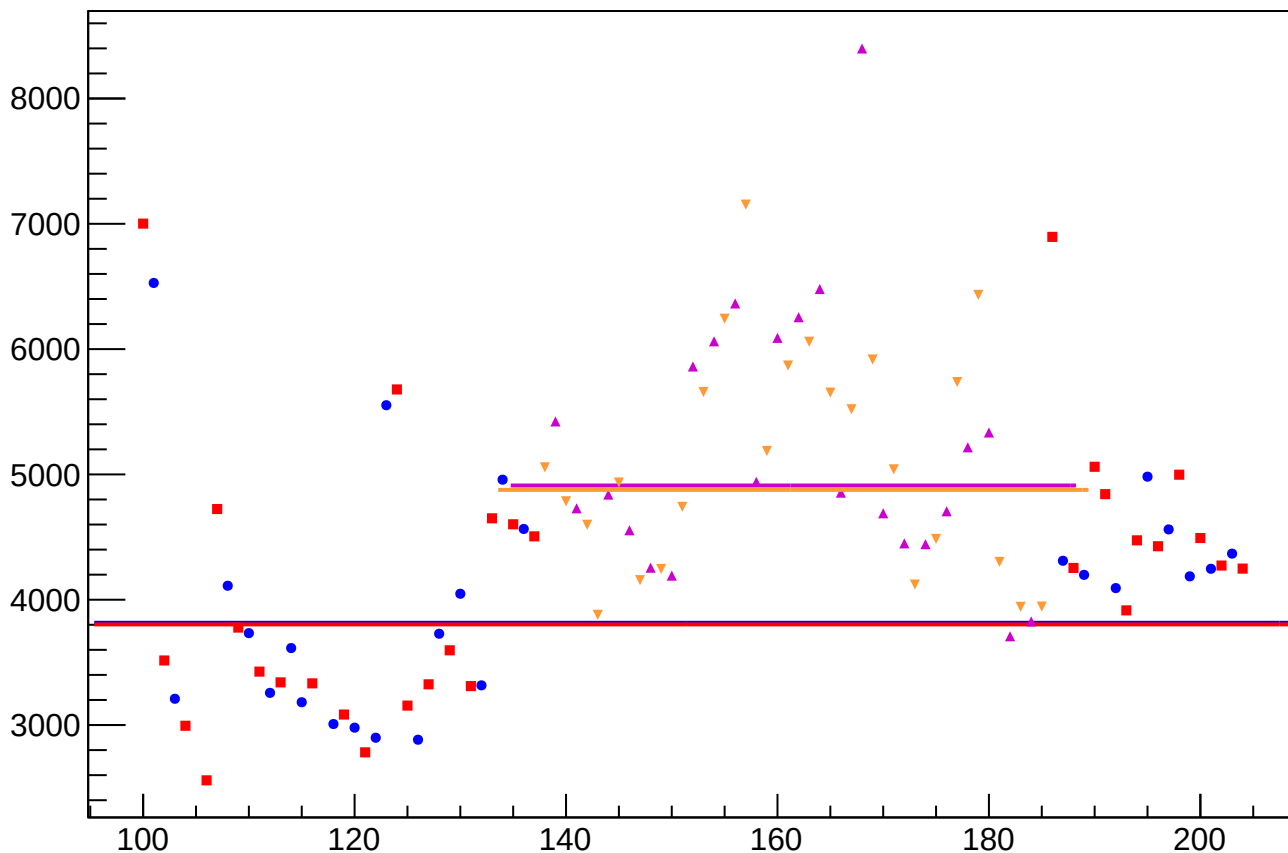
Right: -998.130 ± 764.102 $\chi^2/\text{NDF}: 62.8/54$

In: -413.900 ± 816.659 $\chi^2/\text{NDF}: 41.2/47$

Out: -665.227 ± 775.798 $\chi^2/\text{NDF}: 69.5/54$

All: -546.008 ± 562.463 $\chi^2/\text{NDF}: 110.8/102$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3815.911 $\pm$ 0.790 χ^2/NDF : 859589.8/24

Left Out: 4876.564 $\pm$ 0.817 χ^2/NDF : 972528.1/24

Right Out: 3803.174 $\pm$ 0.734 χ^2/NDF : 1075226.6/29

Left In: 4911.546 $\pm$ 0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2/NDF : 2016577.8/47

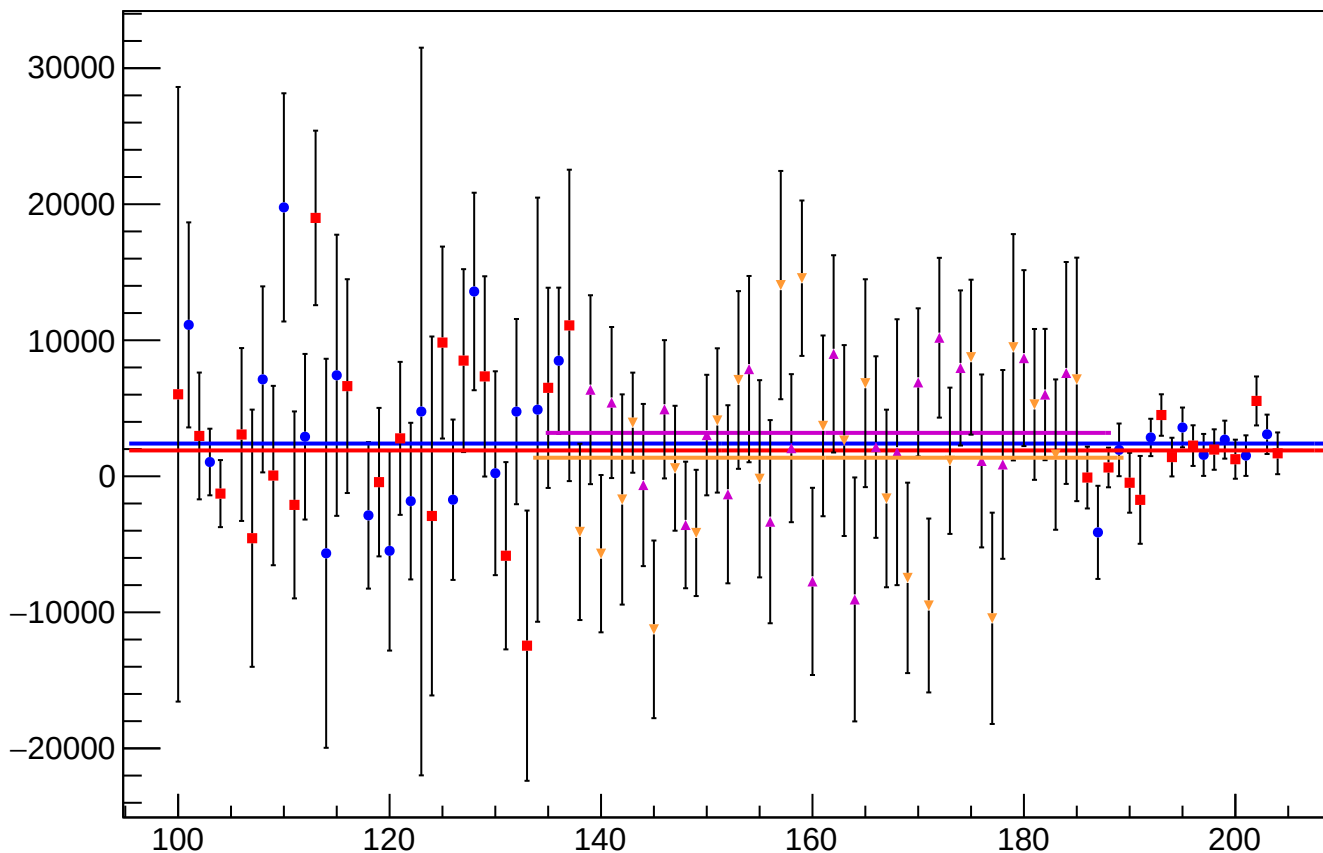
Right: 3809.074 $\pm$ 0.538 χ^2/NDF : 1934955.8/54

In: 4326.739 $\pm$ 0.577 χ^2/NDF : 2798610.7/47

Out: 4282.787 $\pm$ 0.546 χ^2/NDF : 3002598.2/54

All: 4303.538 $\pm$ 0.397 χ^2/NDF : 5804267.0/10

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2406.626+/-521.216 χ^2/NDF : 19.4/24

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1901.530+/-469.741 χ^2/NDF : 29.0/29

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

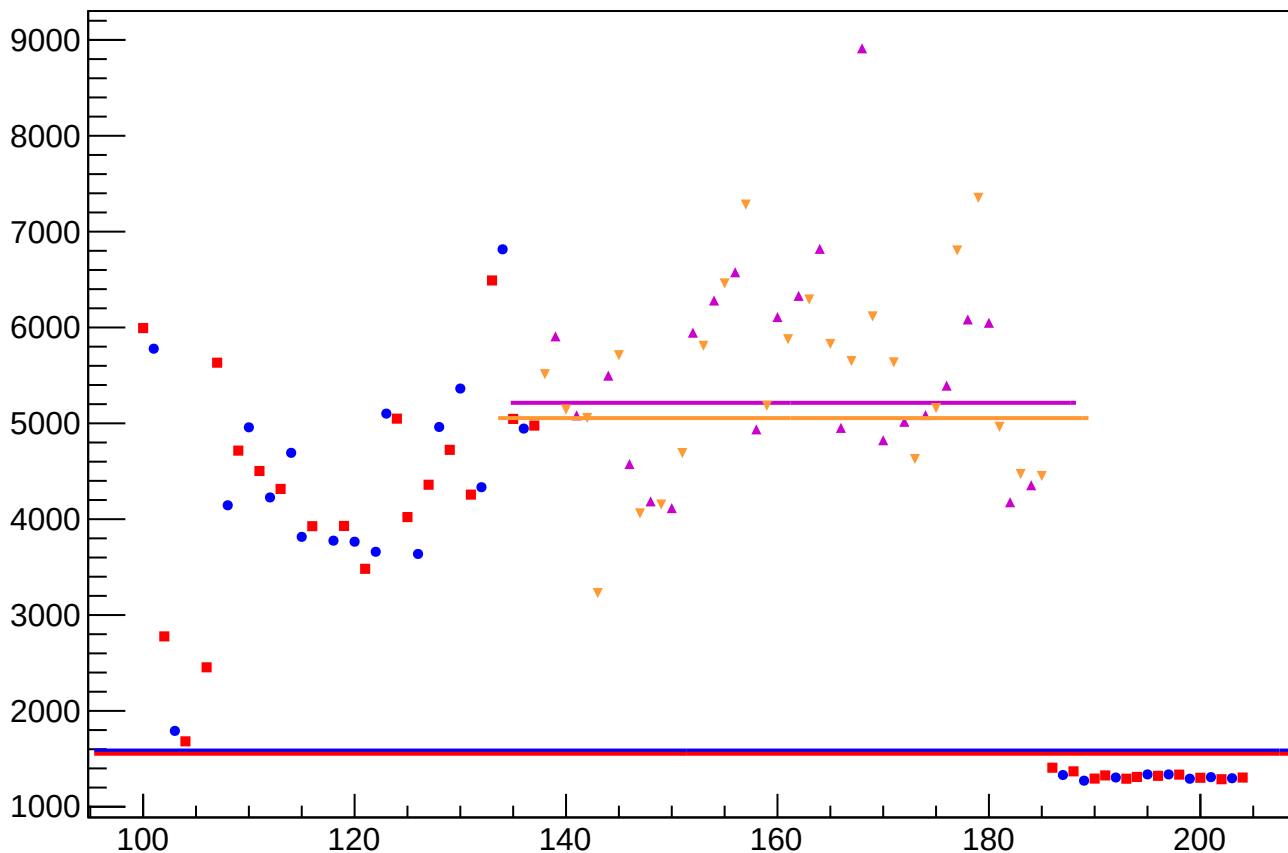
Right: 2127.912+/-348.940 χ^2/NDF : 48.8/54

In: 2519.716+/-482.188 χ^2/NDF : 33.7/47

Out: 1830.892+/-437.723 χ^2/NDF : 57.1/54

All: 2142.086+/-324.099 χ^2/NDF : 91.9/102

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1586.298 $\pm$ 0.369 χ^2 /NDF: 5611357.6/24

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1553.034 $\pm$ 0.332 χ^2 /NDF: 5624793.2/29

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

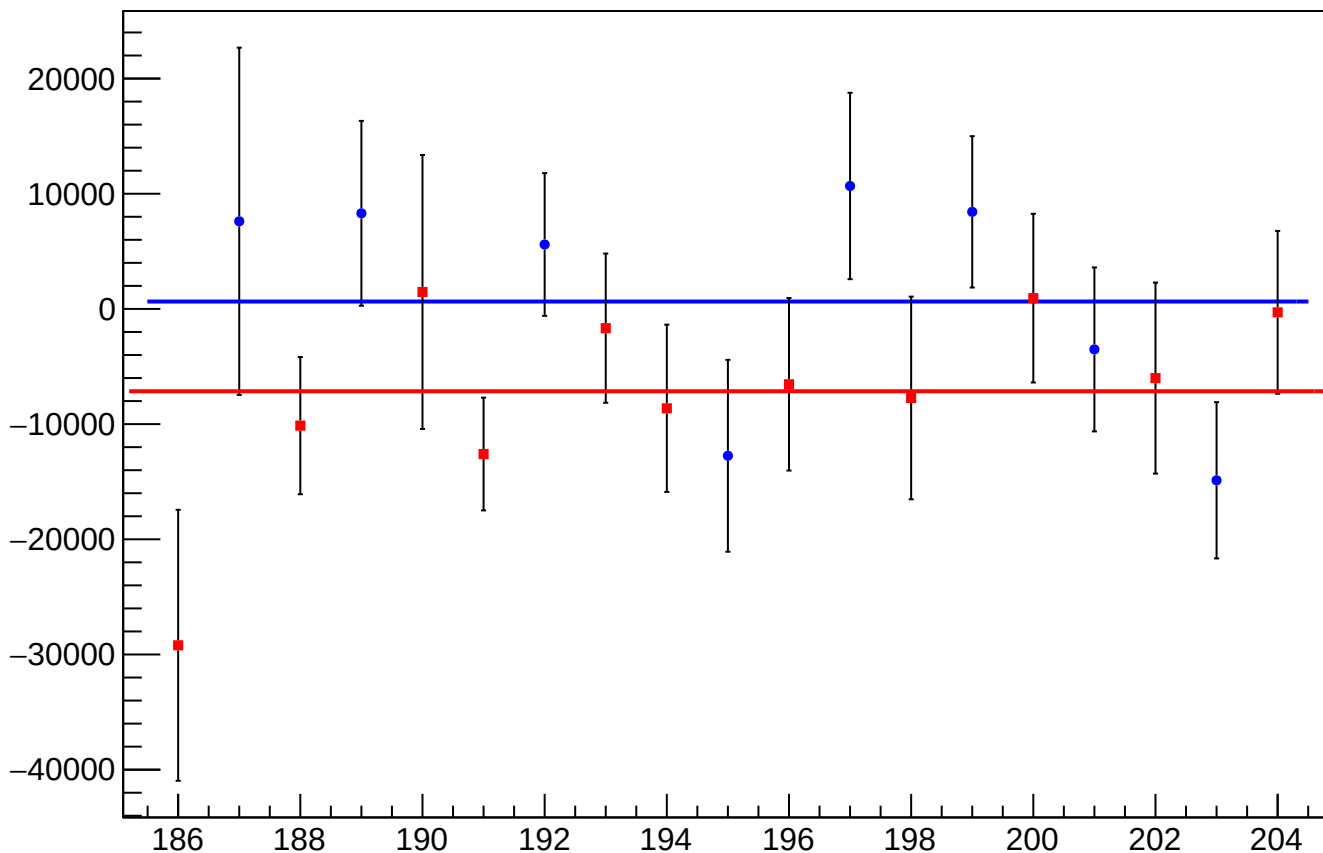
Right: 1567.925 $\pm$ 0.247 χ^2 /NDF: 11240650.3/54

In: 2109.242 $\pm$ 0.341 χ^2 /NDF:20630711.5/47

Out: 2013.269 $\pm$ 0.309 χ^2 /NDF:21700579.5/54

All: 2056.583 $\pm$ 0.229 χ^2 /NDF: 42374764.1/101

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 642.282+/-2669.617 χ^2/NDF : 12.9/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -7146.811+/-2176.904 χ^2/NDF : 8.5/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

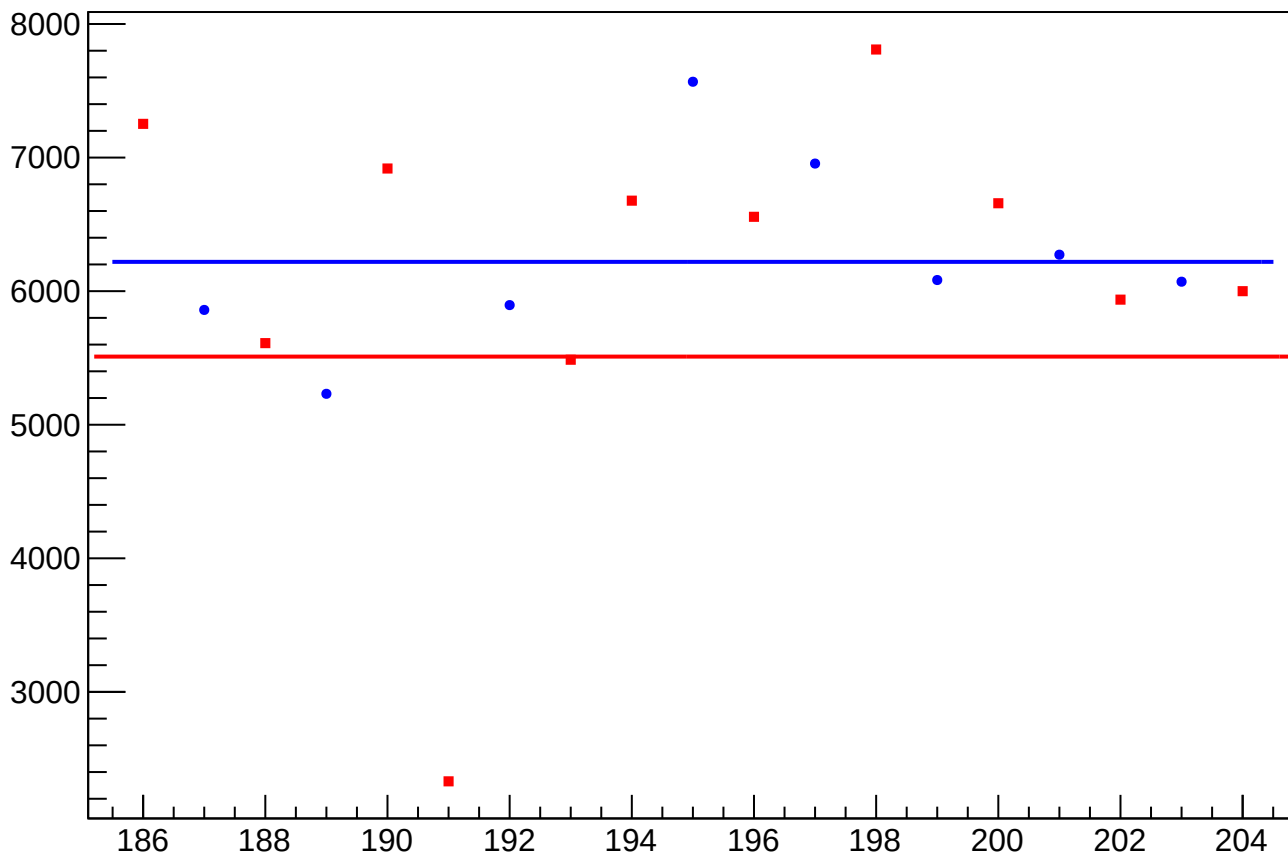
Right: -4036.029+/-1687.098 χ^2/NDF : 26.5/18

In: 642.282+/-2669.617 χ^2/NDF : 12.9/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -4036.029+/-1687.098 χ^2/NDF : 26.5/18

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6219.323+/-1.888 χ^2/NDF : 107797.6/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5510.136+/-1.539 χ^2/NDF : 1208200.1/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

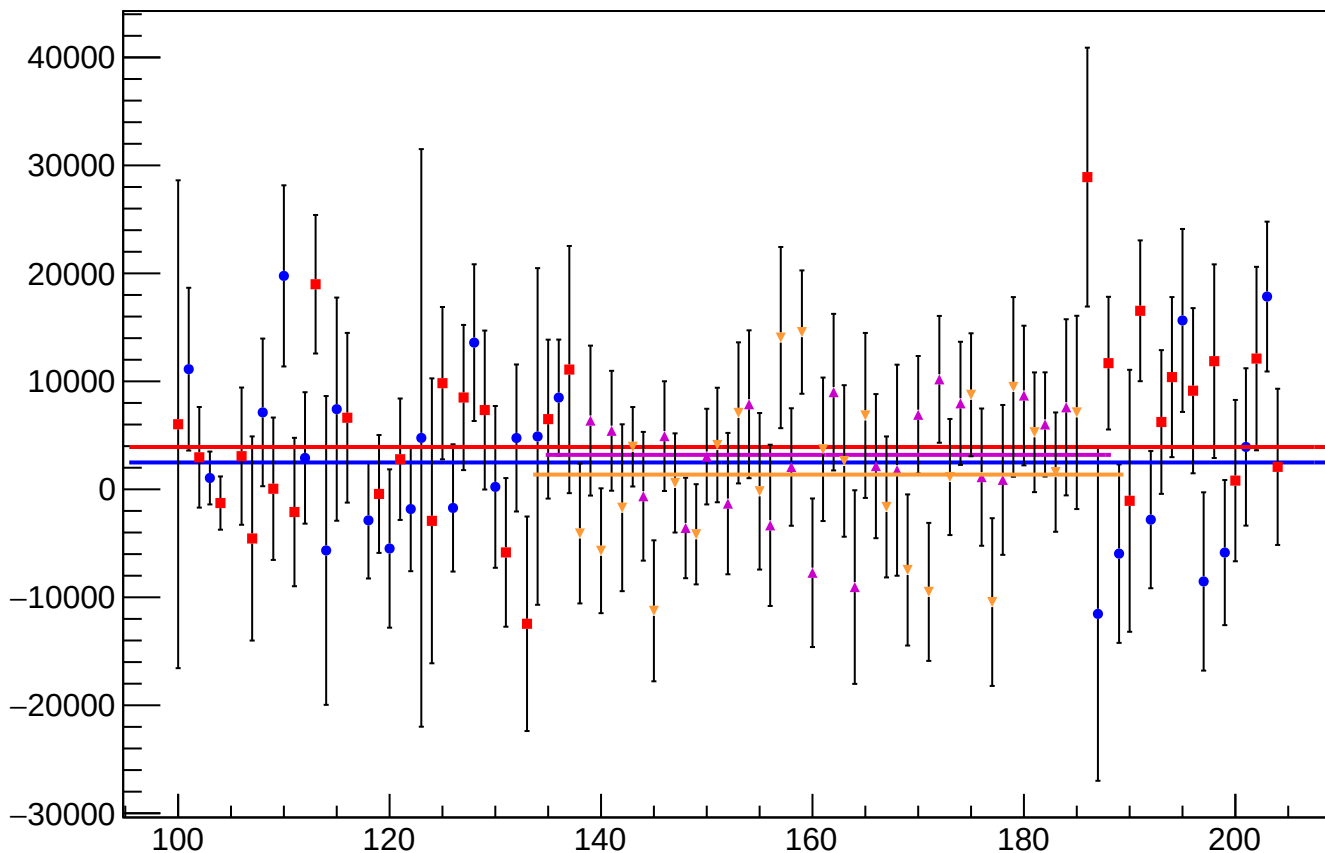
Right: 5793.368+/-1.193 χ^2/NDF : 1400770.4/18

In: 6219.323+/-1.888 χ^2/NDF : 107797.6/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5793.368+/-1.193 χ^2/NDF : 1400770.4/18

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2487.894+/-1284.906 χ^2/NDF : 27.2/24

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3919.315+/-1189.242 χ^2/NDF : 32.8/29

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

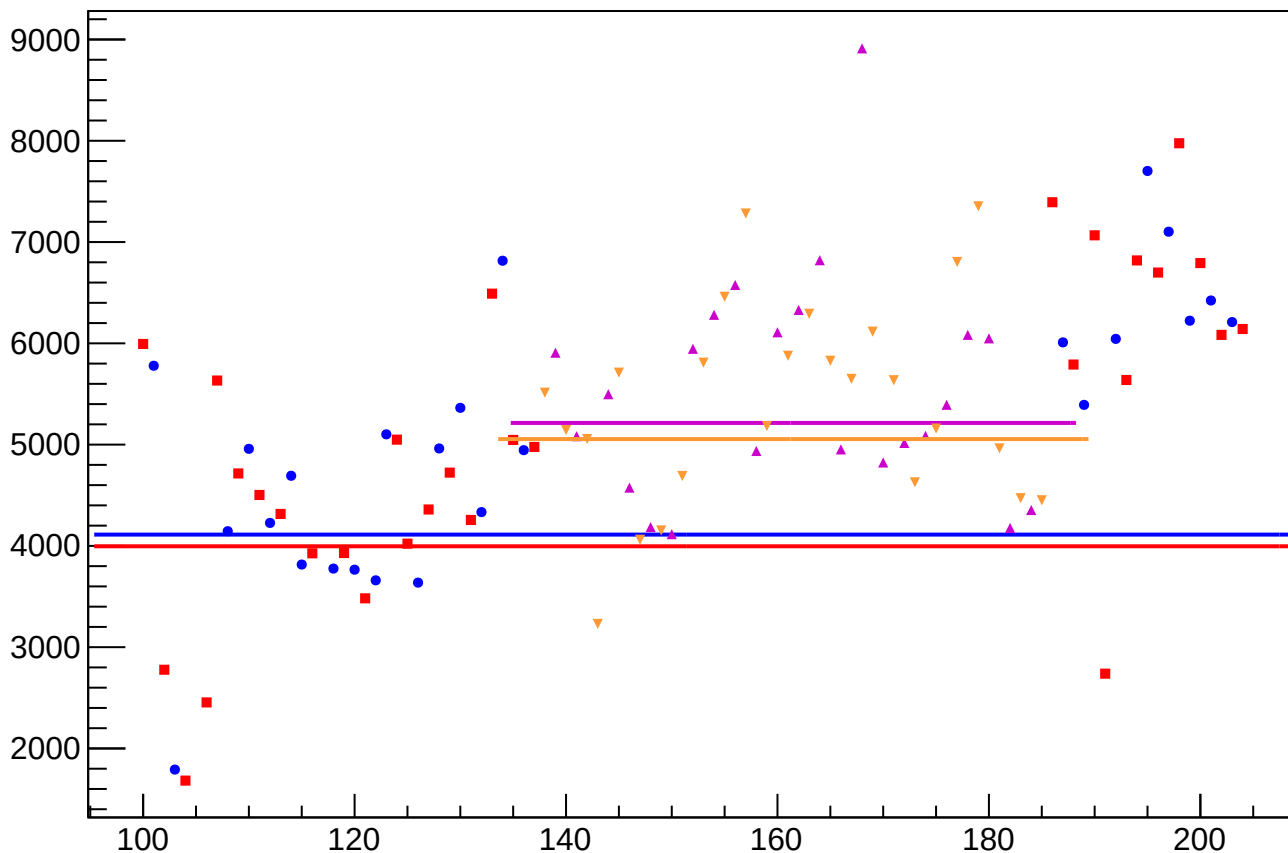
Right: 3258.868+/-872.784 χ^2/NDF : 60.7/54

In: 2843.624+/-903.257 χ^2/NDF : 41.4/47

Out: 2660.351+/-846.877 χ^2/NDF : 63.0/54

All: 2746.089+/-617.803 χ^2/NDF : 104.4/102

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4111.535 $\pm$ 0.909 χ^2/NDF : 3619923.2/24

Left Out: 5054.711 $\pm$ 0.853 χ^2/NDF : 1437224.7/24

Right Out: 3996.124 $\pm$ 0.835 χ^2/NDF : 4582855.9/29

Left In: 5214.120 $\pm$ 0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2/NDF : 2506291.2/47

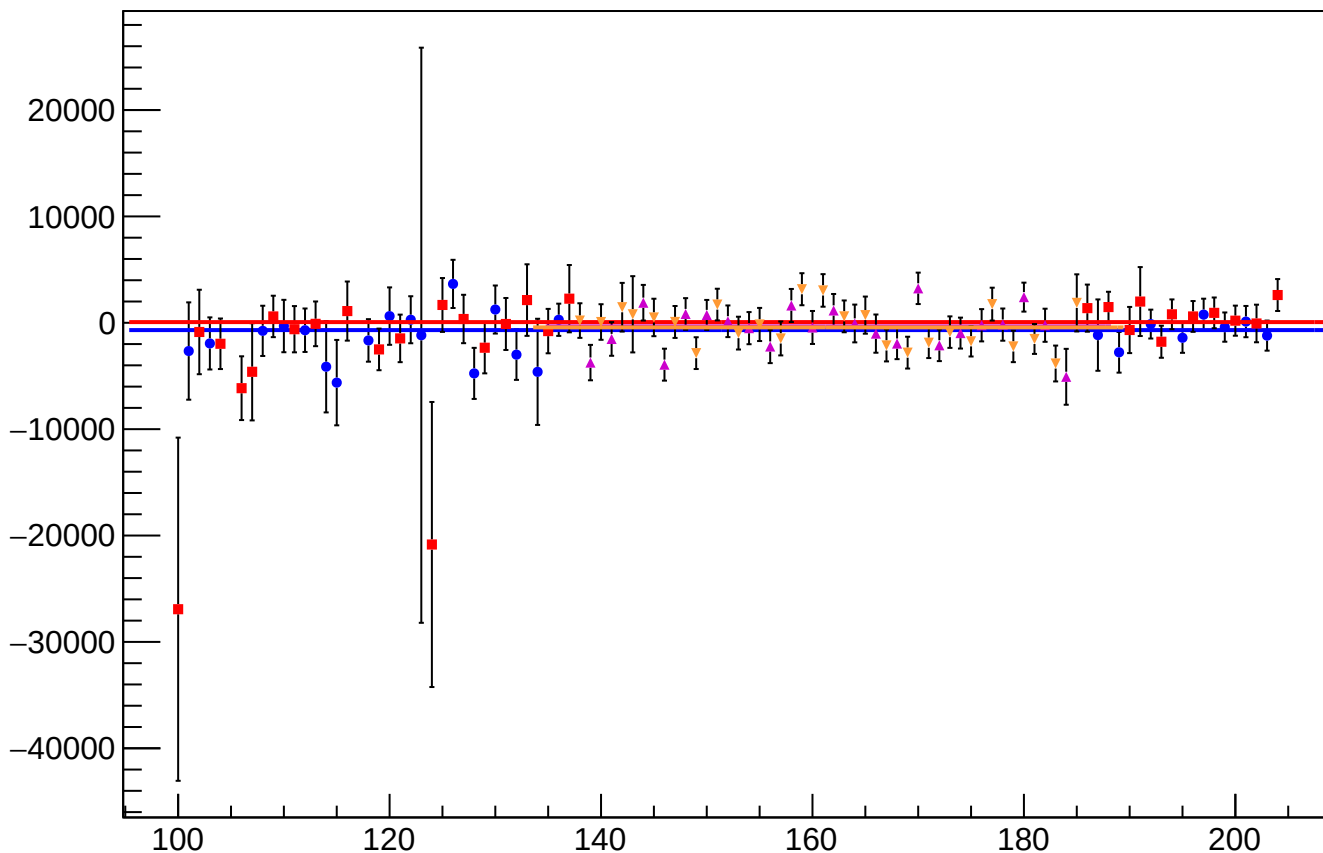
Right: 4048.984 $\pm$ 0.615 χ^2/NDF : 8211524.6/54

In: 4669.240 $\pm$ 0.639 χ^2/NDF : 5417364.0/47

Out: 4514.287 $\pm$ 0.597 χ^2/NDF : 6806409.1/54

All: 4586.510 $\pm$ 0.436 χ^2/NDF : 12255198.2/100

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -686.209+/-405.887 χ^2/NDF : 15.6/24

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 65.120+/-378.654 χ^2/NDF : 23.3/29

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

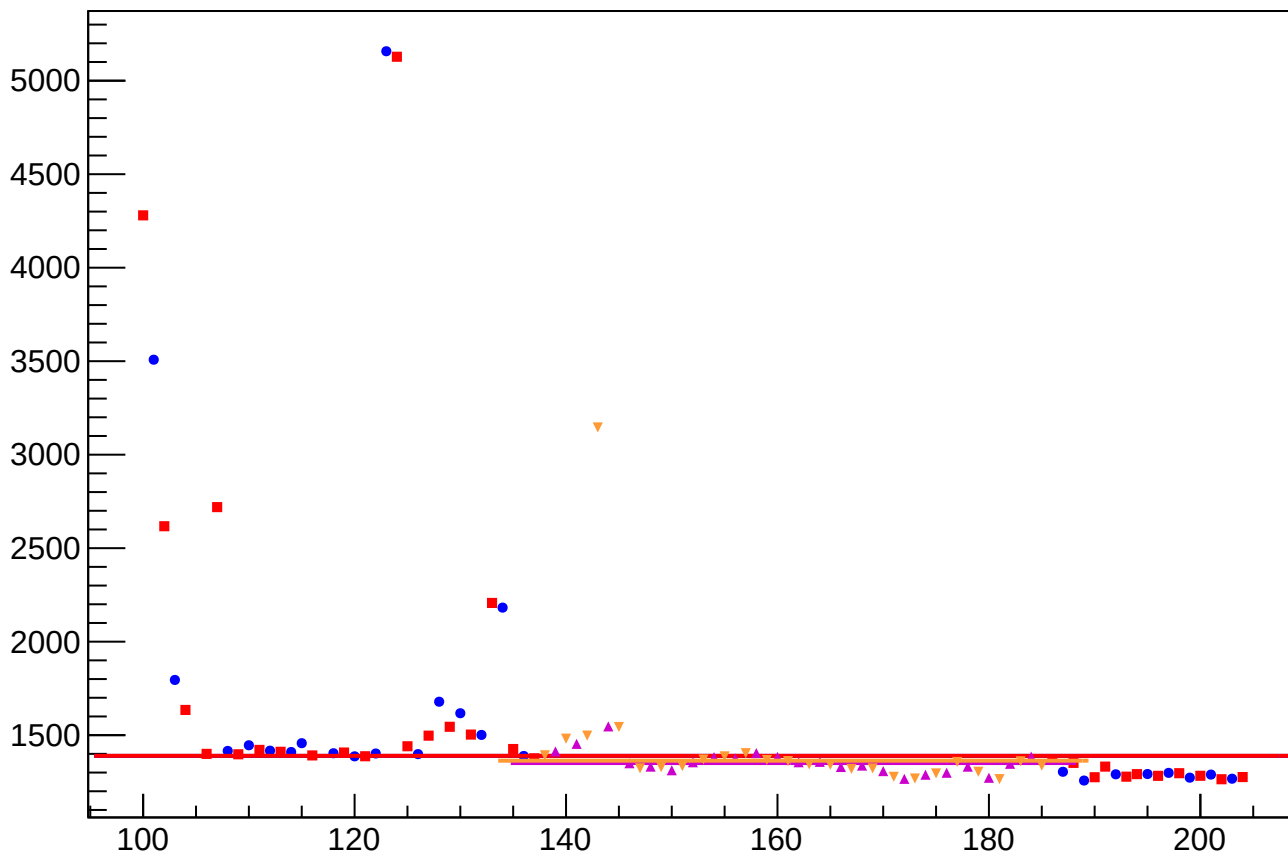
Right: -284.495+/-276.876 χ^2/NDF : 40.7/54

In: -477.213+/-253.393 χ^2/NDF :49.8/47

Out: -224.309+/-244.651 χ^2/NDF :57.3/54

All: -346.323+/-176.004 χ^2/NDF : 107.7/102

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1389.082 $\pm$ 0.287 χ^2 /NDF: 706439.2/24

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1389.458 $\pm$ 0.268 χ^2 /NDF: 820163.2/29

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

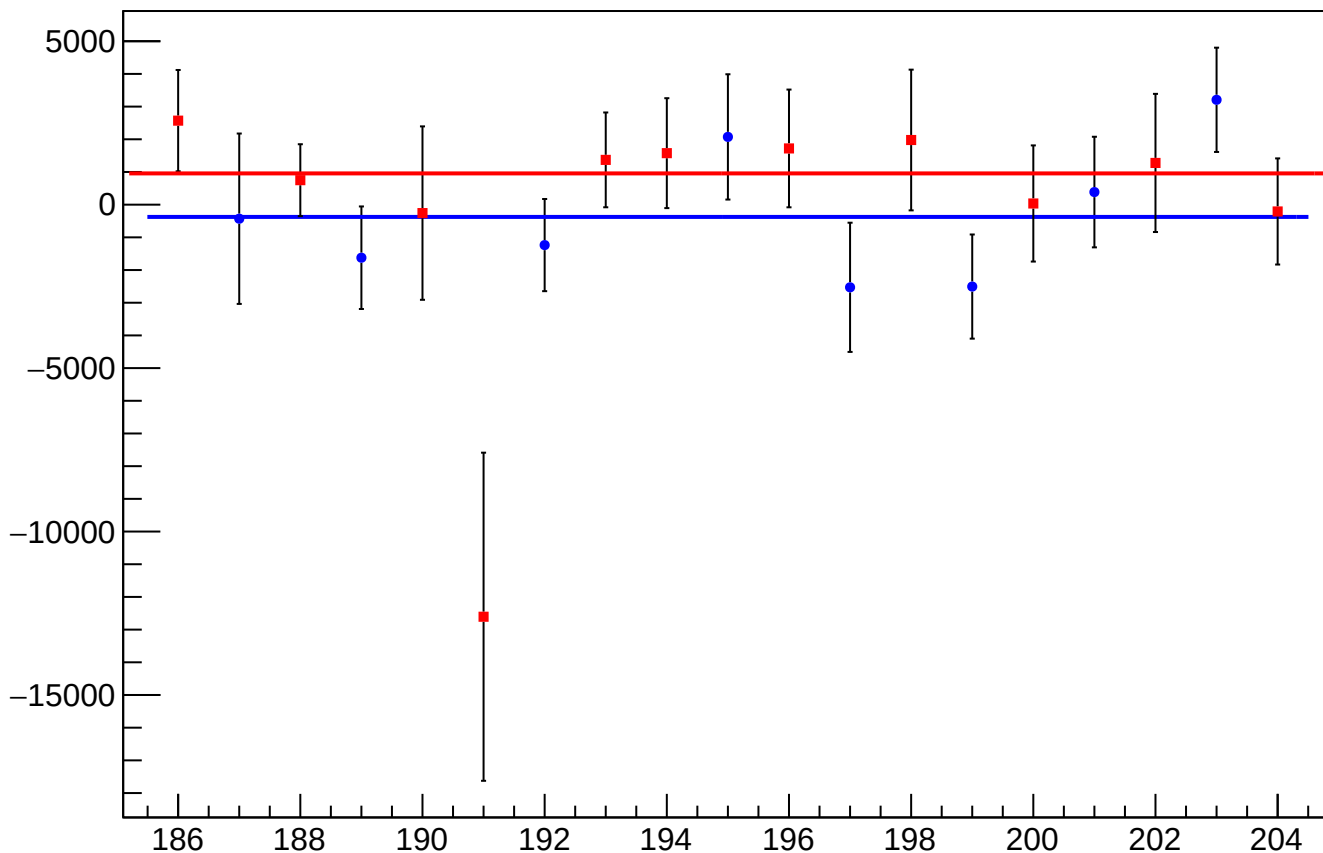
Right: 1389.283 $\pm$ 0.196 χ^2 /NDF: 1526603.4/54

In: 1365.787 $\pm$ 0.179 χ^2 /NDF: 784379.7/47

Out: 1374.372 $\pm$ 0.173 χ^2 /NDF: 1400839.7/54

All: 1370.230 $\pm$ 0.124 χ^2 /NDF: 2186407.6/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -374.869+/-606.181 χ^2/NDF : 10.9/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 956.295+/-519.962 χ^2/NDF : 10.1/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

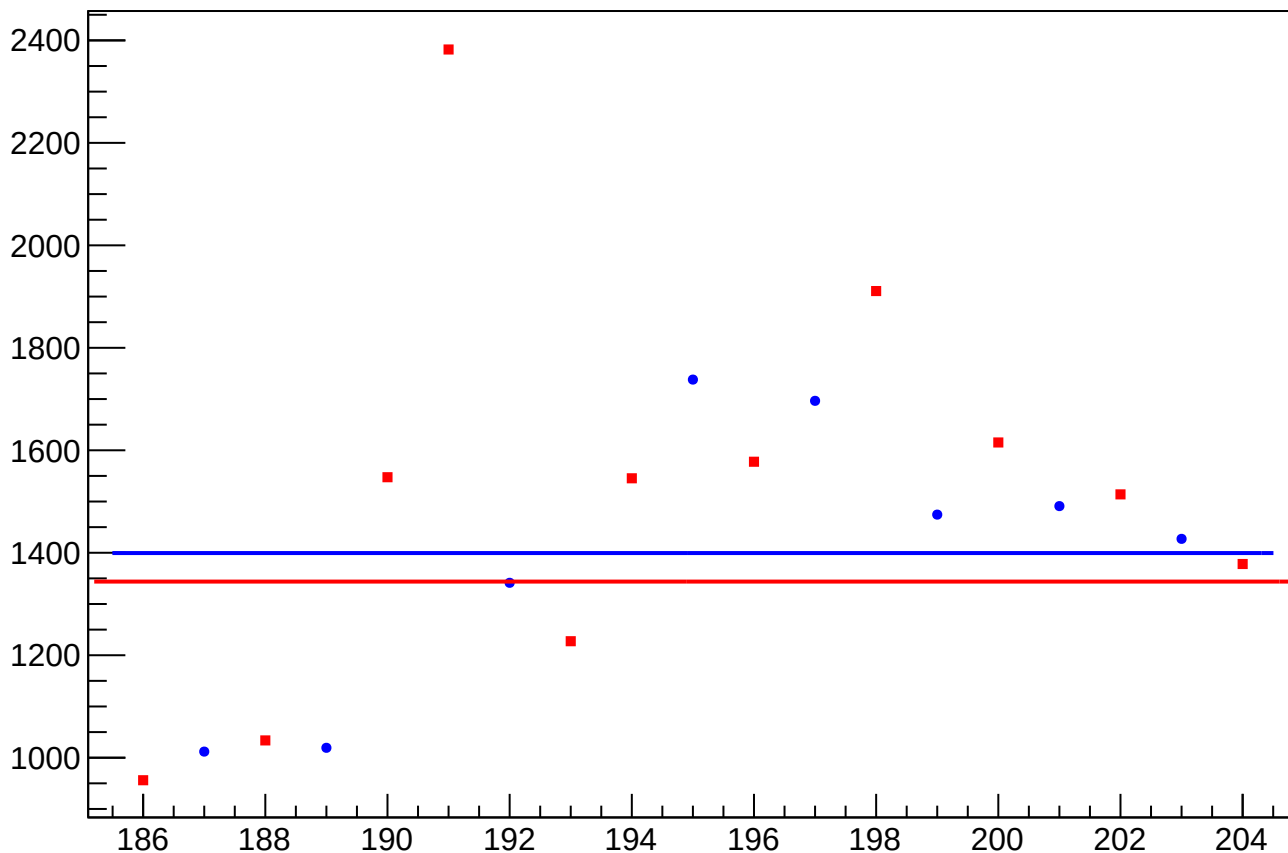
Right: 392.035+/-394.663 χ^2/NDF : 23.7/18

In: -374.869+/-606.181 χ^2/NDF : 10.9/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 392.035+/-394.663 χ^2/NDF : 23.7/18

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1399.431+/-0.429 χ^2/NDF : 283546.7/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1343.765+/-0.368 χ^2/NDF : 656276.8/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

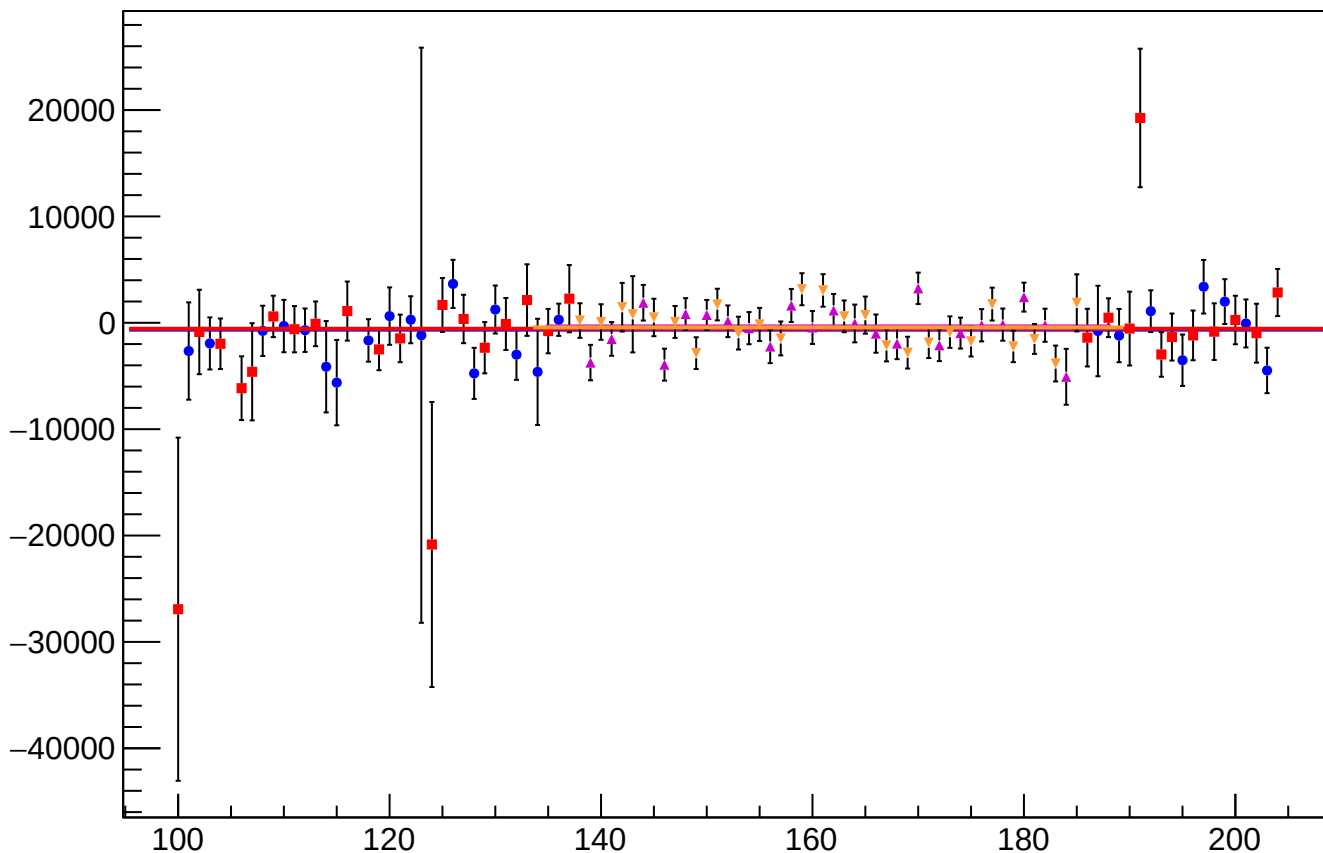
Right: 1367.361+/-0.279 χ^2/NDF : 949540.2/18

In: 1399.431+/-0.429 χ^2/NDF : 283546.7/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1367.361+/-0.279 χ^2/NDF : 949540.2/18

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -642.467+/-489.680 χ^2/NDF : 22.2/24

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -561.718+/-464.475 χ^2/NDF : 28.2/29

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

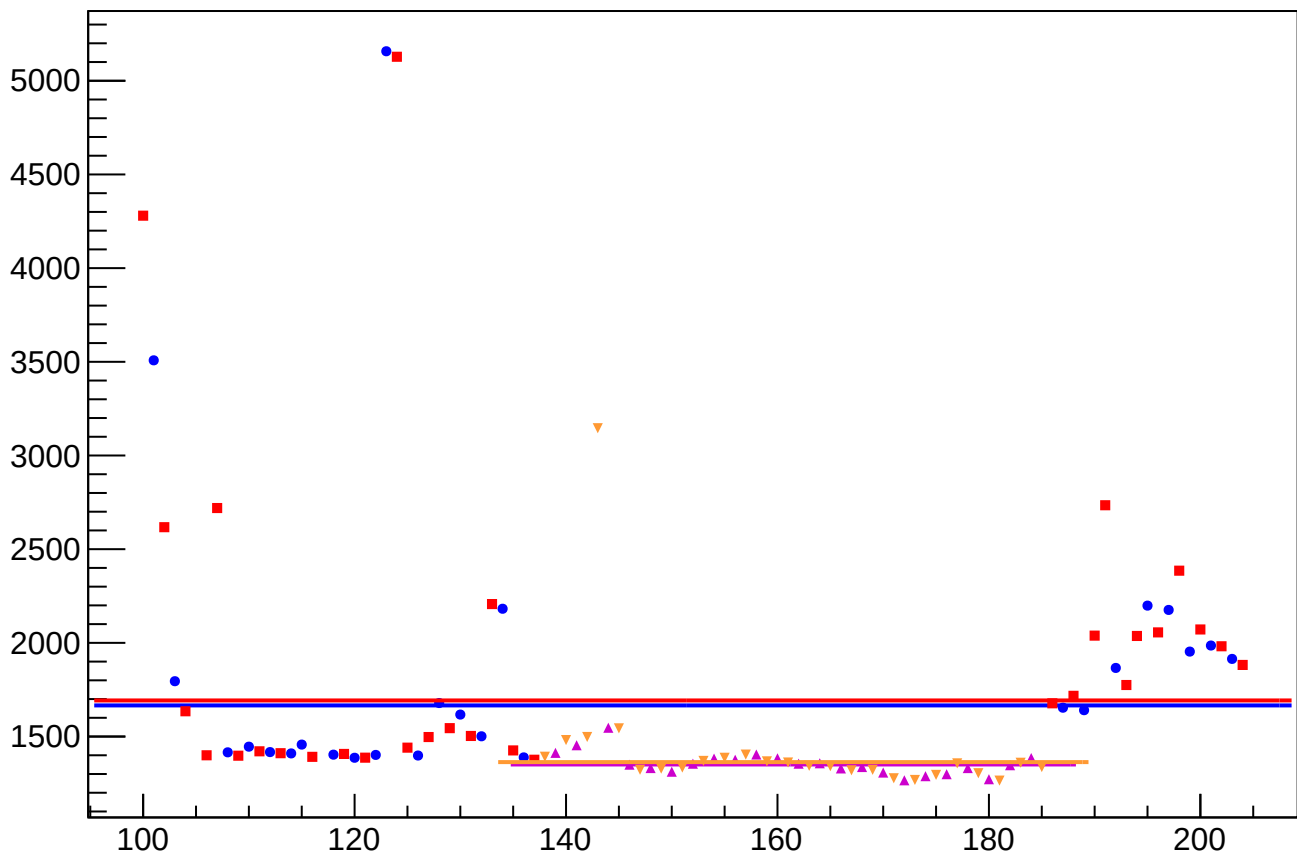
Right: -599.961+/-336.992 χ^2/NDF : 50.5/54

In: -434.841+/-270.421 χ^2/NDF : 56.3/47

Out: -473.655+/-263.816 χ^2/NDF : 61.3/54

All: -454.728+/-188.838 χ^2/NDF : 117.6/102

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1666.091+/-0.346 χ^2/NDF : 959811.8/24

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1692.635+/-0.328 χ^2/NDF : 1180919.2/29

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

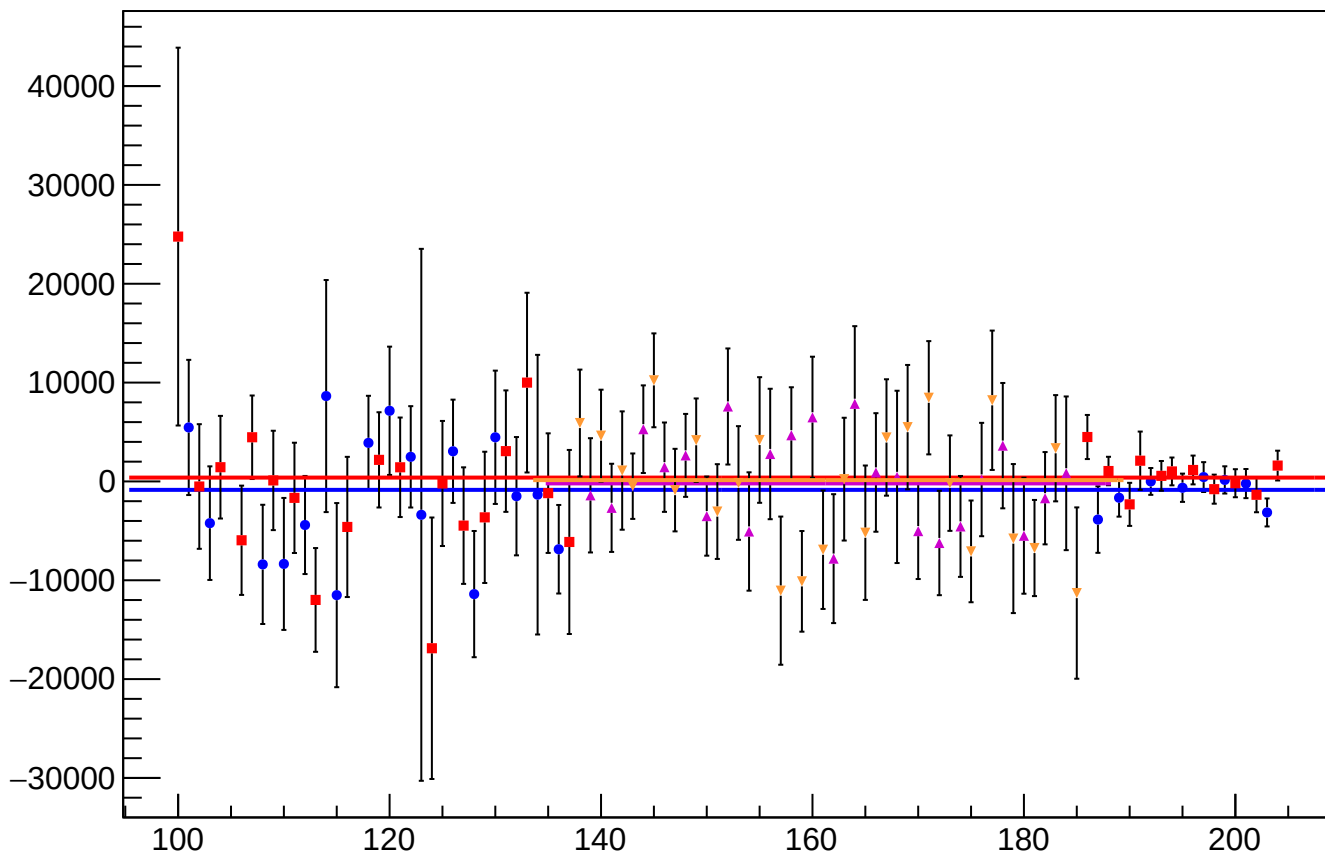
Right: 1680.063+/-0.238 χ^2/NDF : 2143824.6/54

In: 1447.030+/-0.191 χ^2/NDF : 1602838.0/47

Out: 1469.724+/-0.187 χ^2/NDF : 2436183.0/54

All: 1458.658+/-0.134 χ^2/NDF : 4046238.1/100

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -853.566 ± 516.284 χ^2/NDF : 20.6/24

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 388.284 ± 462.723 χ^2/NDF : 23.3/29

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

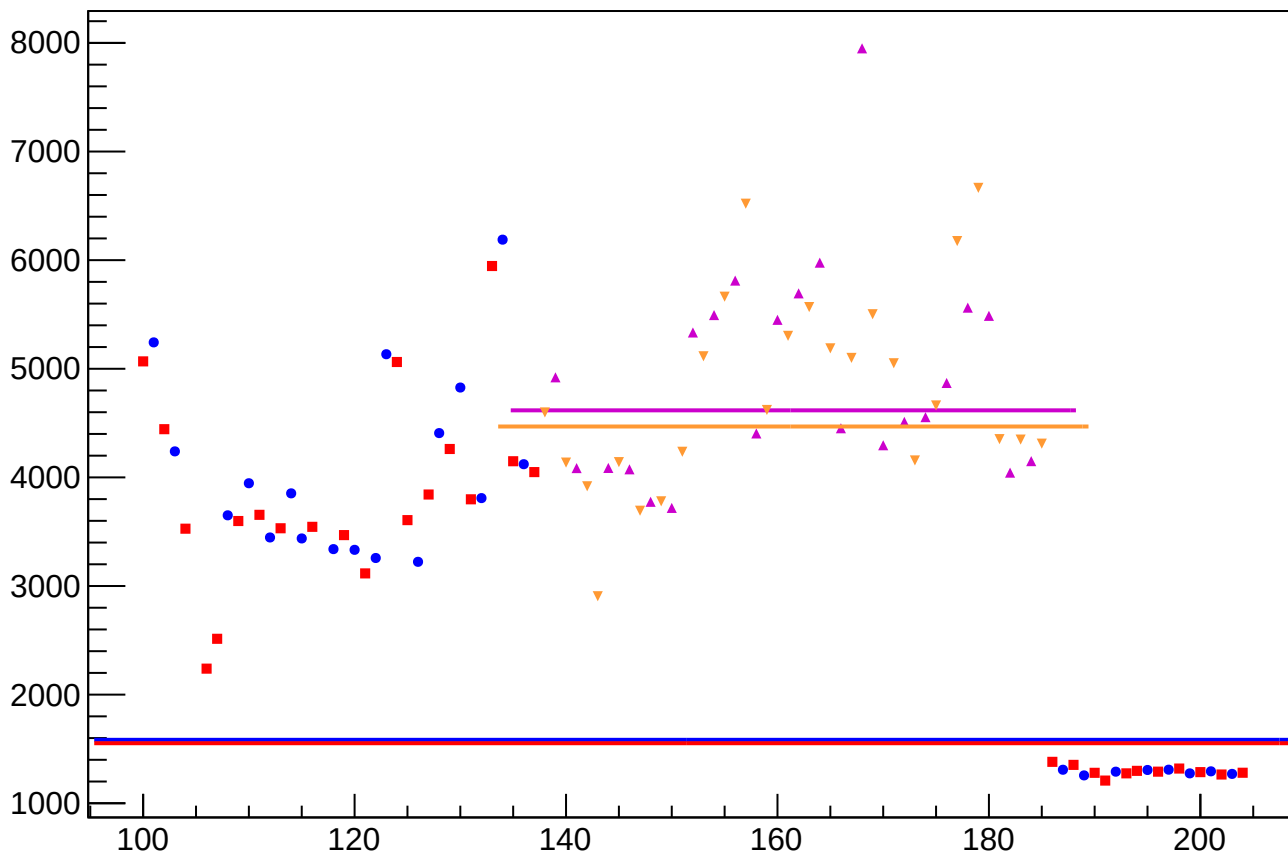
Right: -164.903 ± 344.580 χ^2/NDF : 47.1/54

In: -739.648 ± 469.122 χ^2/NDF : 35.6/47

Out: 347.644 ± 424.431 χ^2/NDF : 51.5/54

All: -141.756 ± 314.735 χ^2/NDF : 90.1/102

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1583.900 $\pm$ 0.365 χ^2 /NDF: 5350152.6/24

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 1552.619 $\pm$ 0.327 χ^2 /NDF: 5265271.6/29

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF: 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

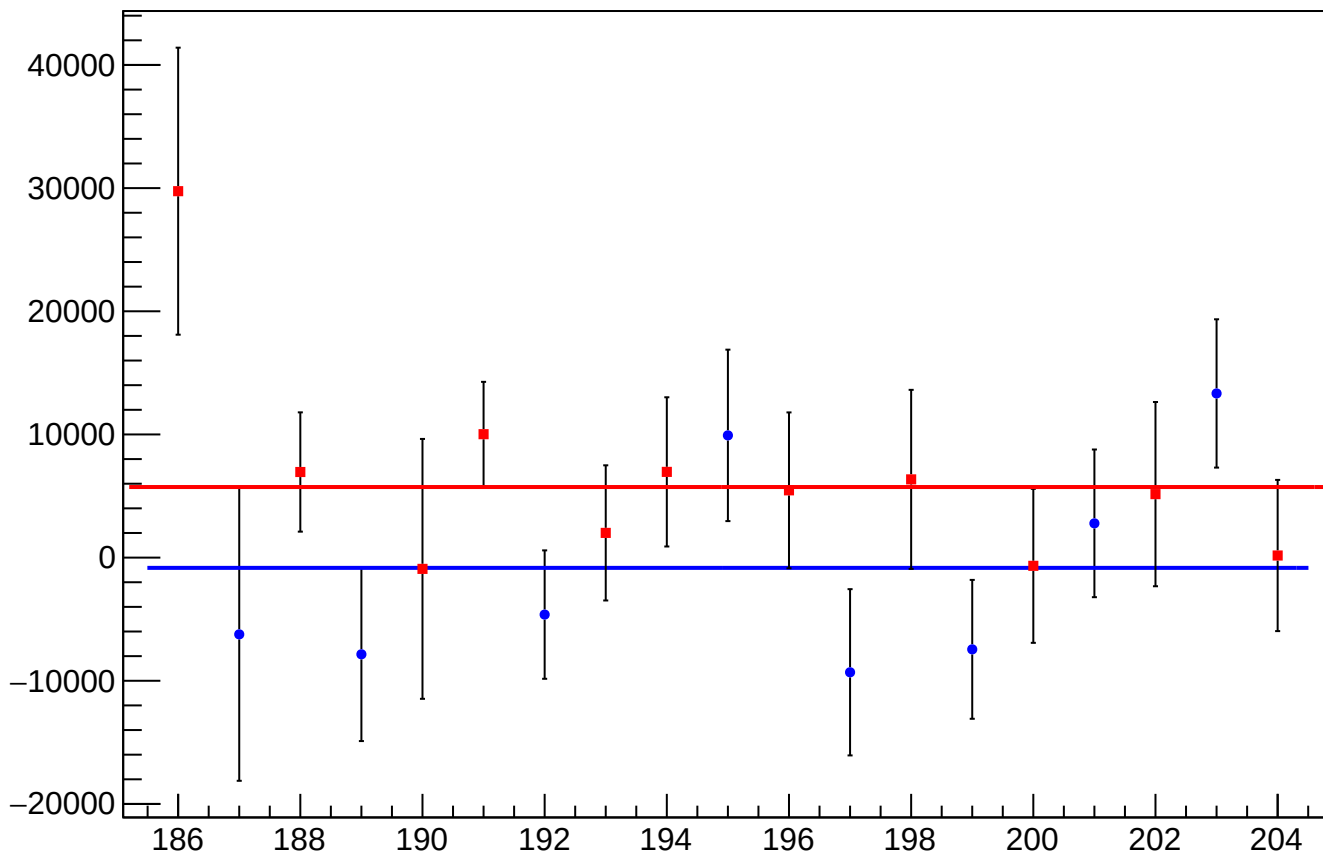
Right: 1566.537 $\pm$ 0.244 χ^2 /NDF: 10619499.4/54

In: 2112.775 $\pm$ 0.332 χ^2 /NDF: 18387277.9/47

Out: 2014.454 $\pm$ 0.300 χ^2 /NDF: 19250995.6/54

All: 2058.667 $\pm$ 0.222 χ^2 /NDF: 37686620.3/101

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -832.564+/-2273.541 χ^2/NDF : 13.0/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5731.208+/-1861.012 χ^2/NDF : 8.1/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

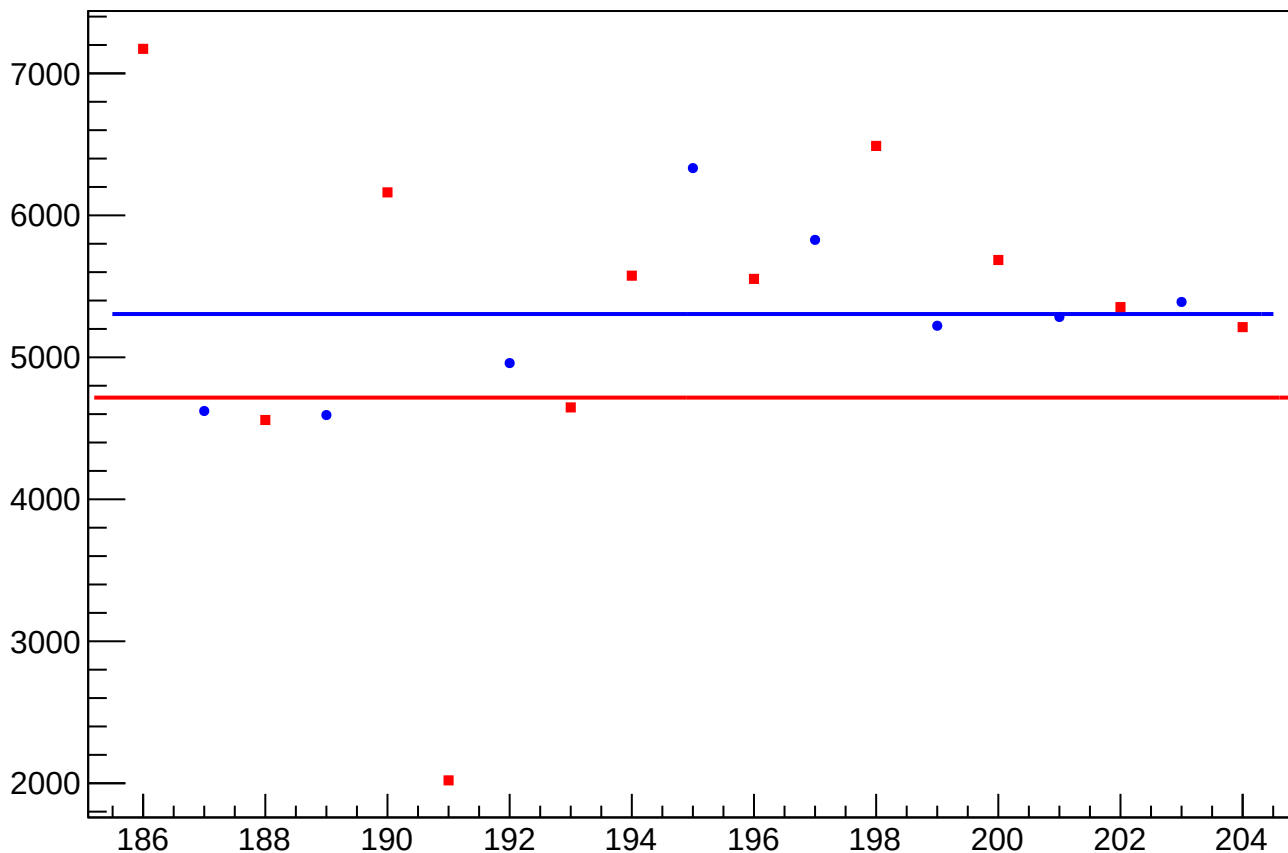
Right: 3097.774+/-1440.082 χ^2/NDF : 26.1/18

In: -832.564+/-2273.541 χ^2/NDF : 13.0/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 3097.774+/-1440.082 χ^2/NDF : 26.1/18

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5304.962 $\pm$ 1.608 χ^2 /NDF: 92227.8/7

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 4716.375 $\pm$ 1.316 χ^2 /NDF: 1203550.5/10

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

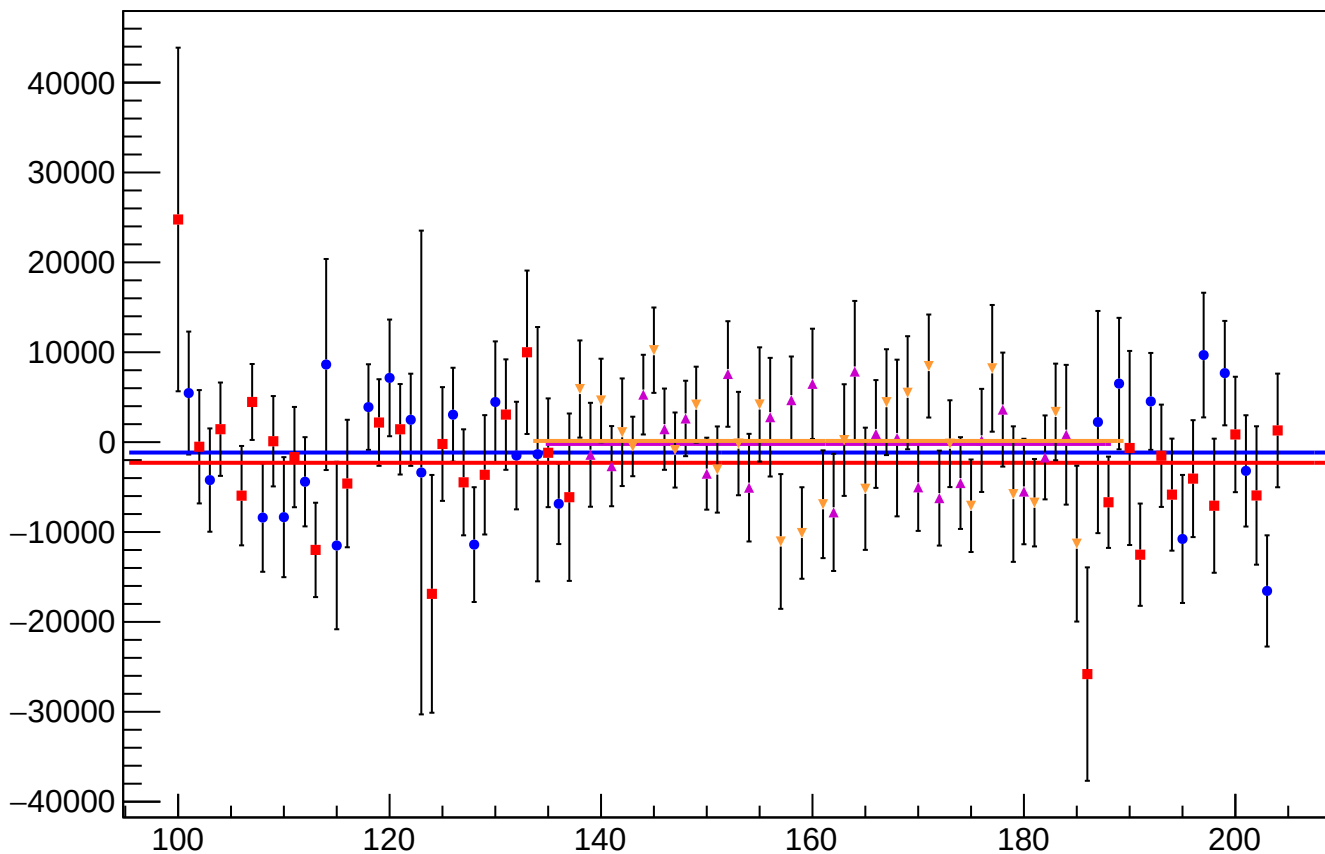
Right: 4952.520 $\pm$ 1.018 χ^2 /NDF: 1376042.5/18

In: 5304.962 $\pm$ 1.608 χ^2 /NDF:92227.8/7

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 4952.520 $\pm$ 1.018 χ^2 /NDF: 1376042.5/18

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1157.901 ± 1274.005 $\chi^2/\text{NDF}: 30.2/24$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -2298.533 ± 1137.082 $\chi^2/\text{NDF}: 24.6/29$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

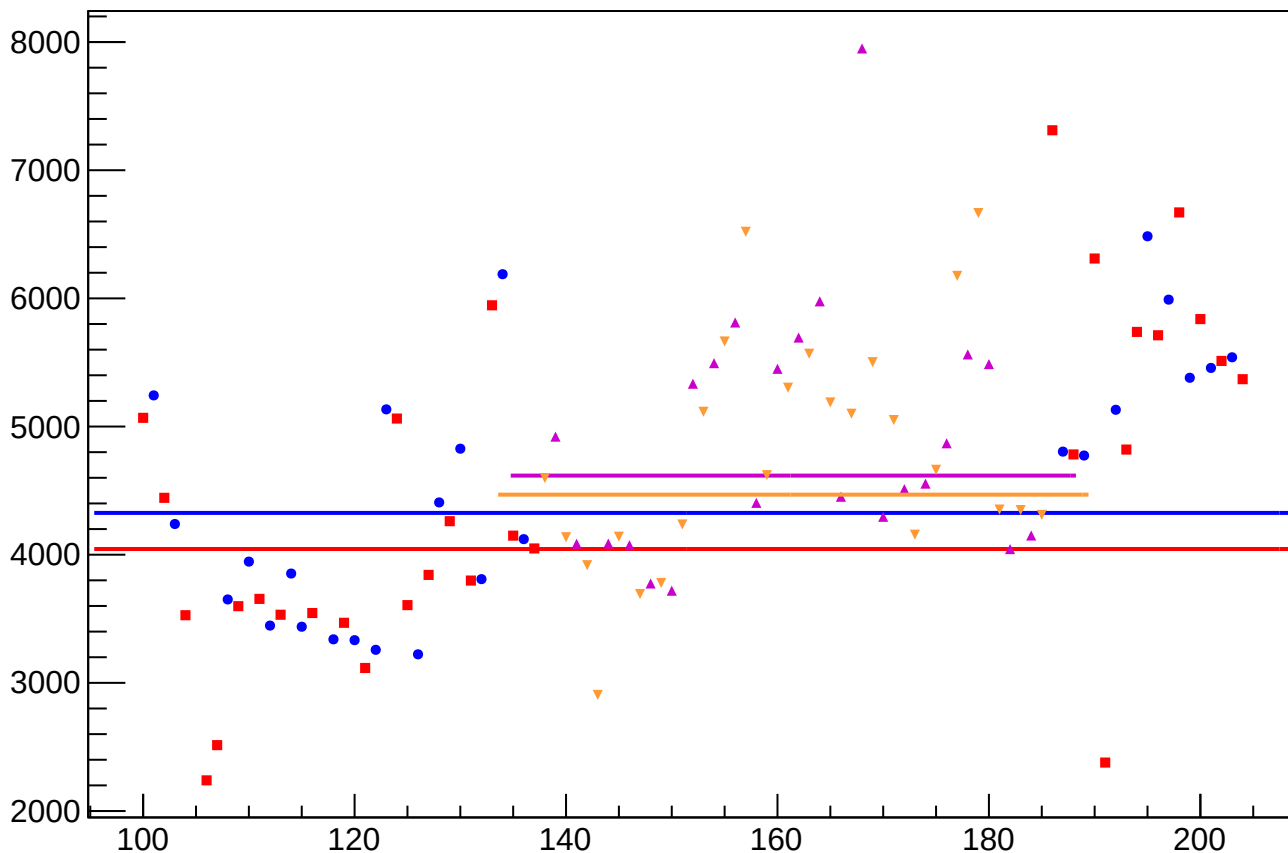
Right: -1792.784 ± 848.332 $\chi^2/\text{NDF}: 55.2/54$

In: -619.155 ± 842.647 $\chi^2/\text{NDF}: 45.2/47$

Out: -1004.333 ± 777.514 $\chi^2/\text{NDF}: 55.2/54$

All: -827.204 ± 571.426 $\chi^2/\text{NDF}: 100.5/102$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4326.069+/-0.901 χ^2/NDF : 1091285.7/24

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 4044.488+/-0.799 χ^2/NDF : 2174873.1/29

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

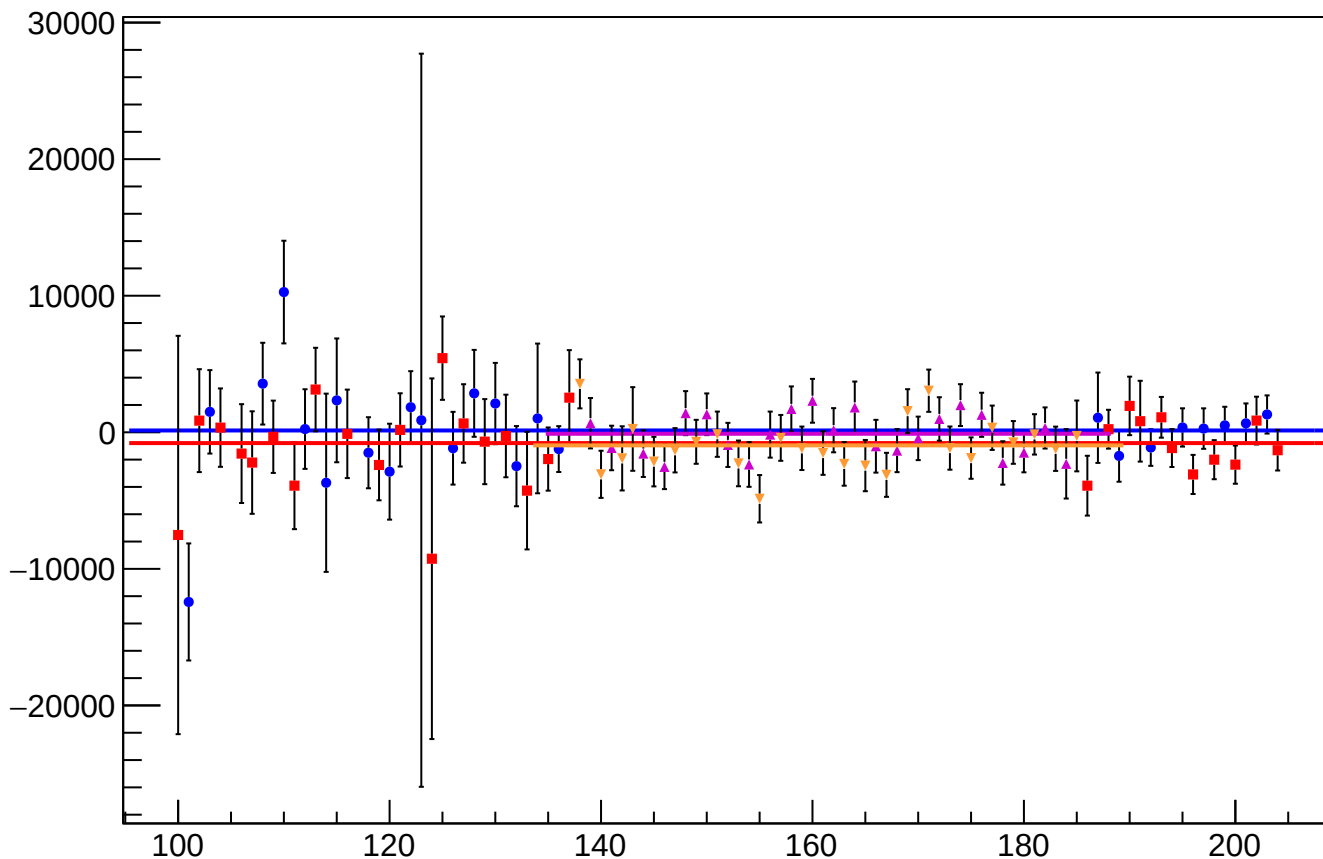
Right: 4168.477+/-0.598 χ^2/NDF : 3320840.4/54

In: 4489.889+/-0.596 χ^2/NDF : 2149674.6/47

Out: 4268.946+/-0.548 χ^2/NDF : 3704543.5/54

All: 4370.230+/-0.403 χ^2/NDF : 5928686.0/100

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 133.367 ± 439.440 $\chi^2/\text{NDF}: 25.2/24$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -790.438 ± 404.355 $\chi^2/\text{NDF}: 22.3/29$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

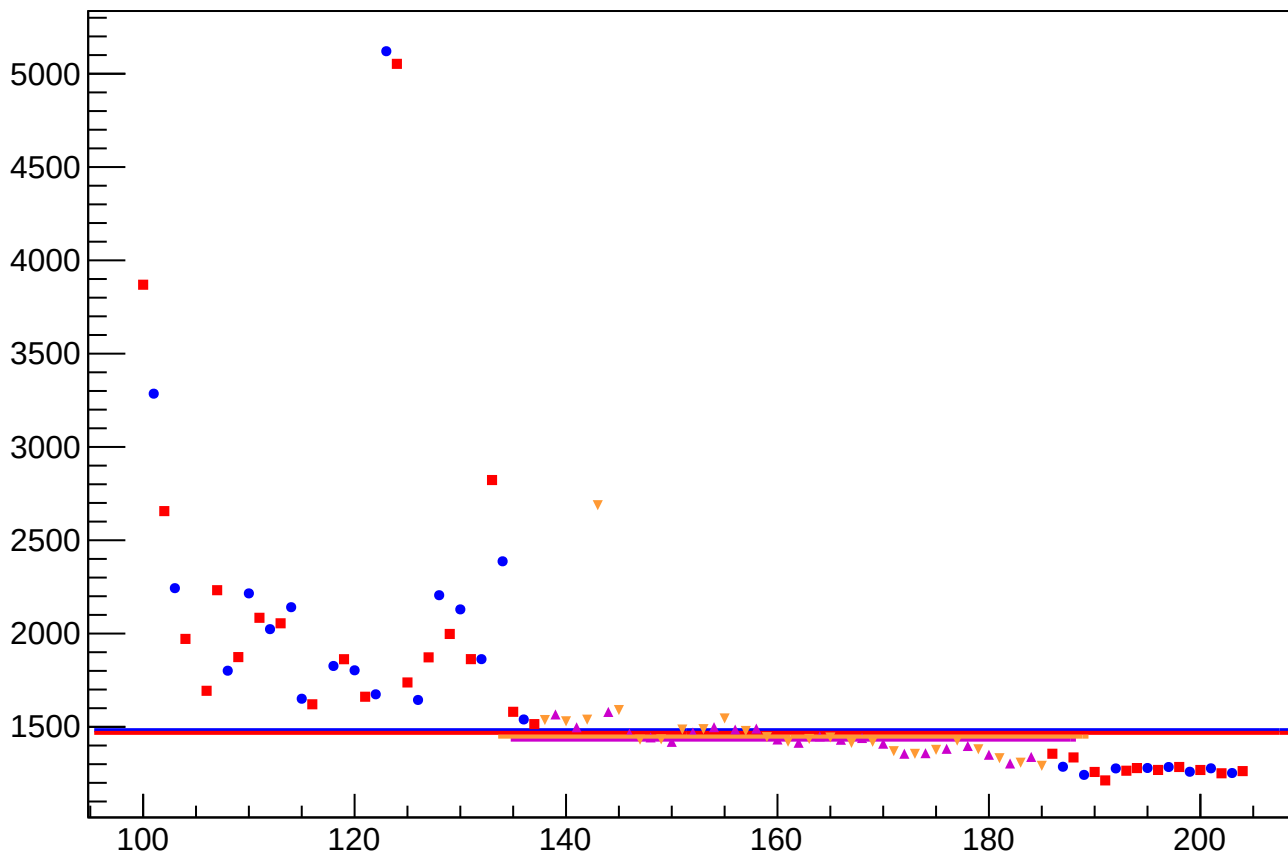
Right: -366.880 ± 297.554 $\chi^2/\text{NDF}: 49.9/54$

In: -16.099 ± 270.710 $\chi^2/\text{NDF}: 44.9/47$

Out: -888.959 ± 260.005 $\chi^2/\text{NDF}: 50.9/54$

All: -470.128 ± 187.522 $\chi^2/\text{NDF}: 101.2/102$

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1482.274+/-0.311 χ^2/NDF : 1374195.4/24

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1467.893+/-0.286 χ^2/NDF : 1471433.6/29

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

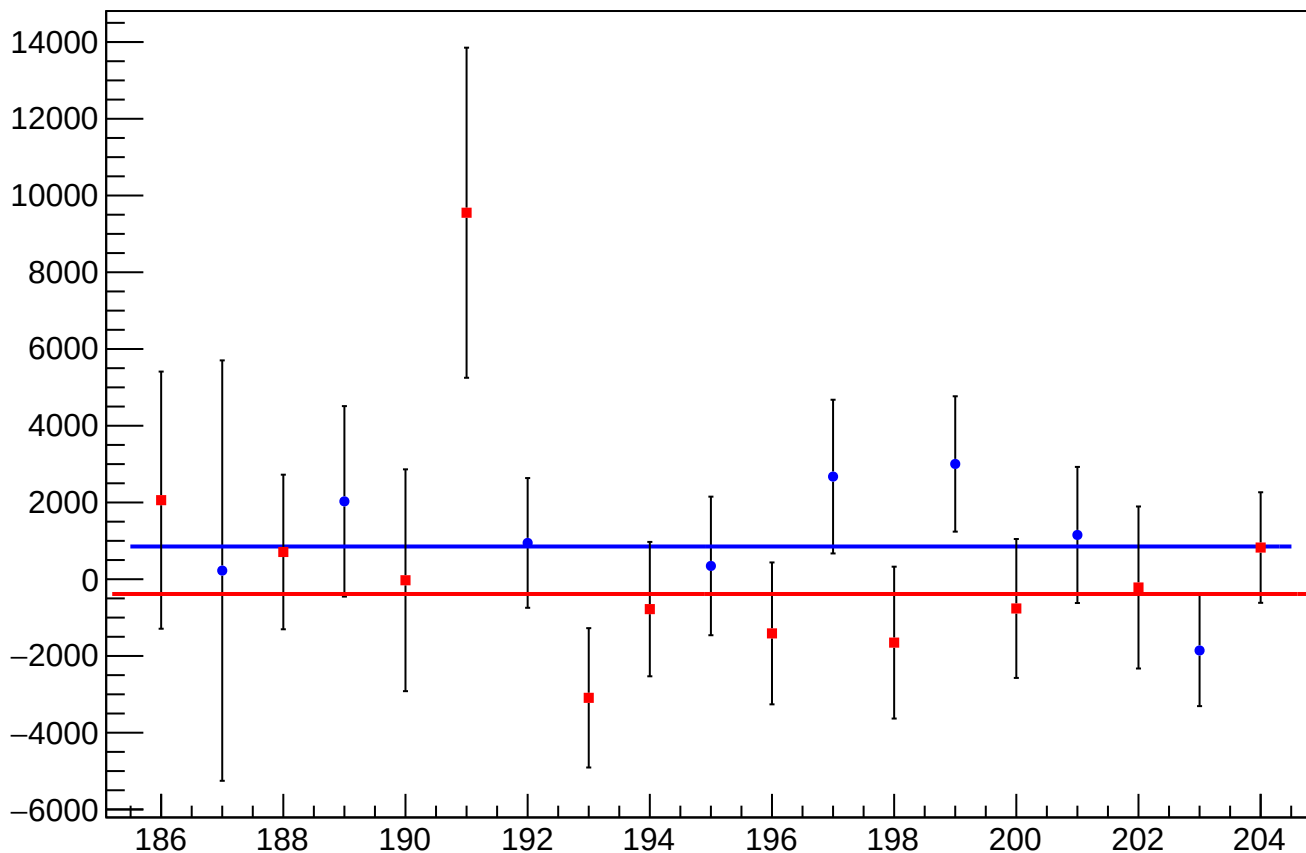
Right: 1474.487+/-0.210 χ^2/NDF : 2846788.8/54

In: 1450.741+/-0.191 χ^2/NDF : 1465922.6/47

Out: 1455.964+/-0.184 χ^2/NDF : 1893656.3/54

All: 1453.458+/-0.133 χ^2/NDF : 3359966.1/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 852.903+/-671.747 χ^2/NDF : 6.2/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -384.909+/-608.853 χ^2/NDF : 9.9/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

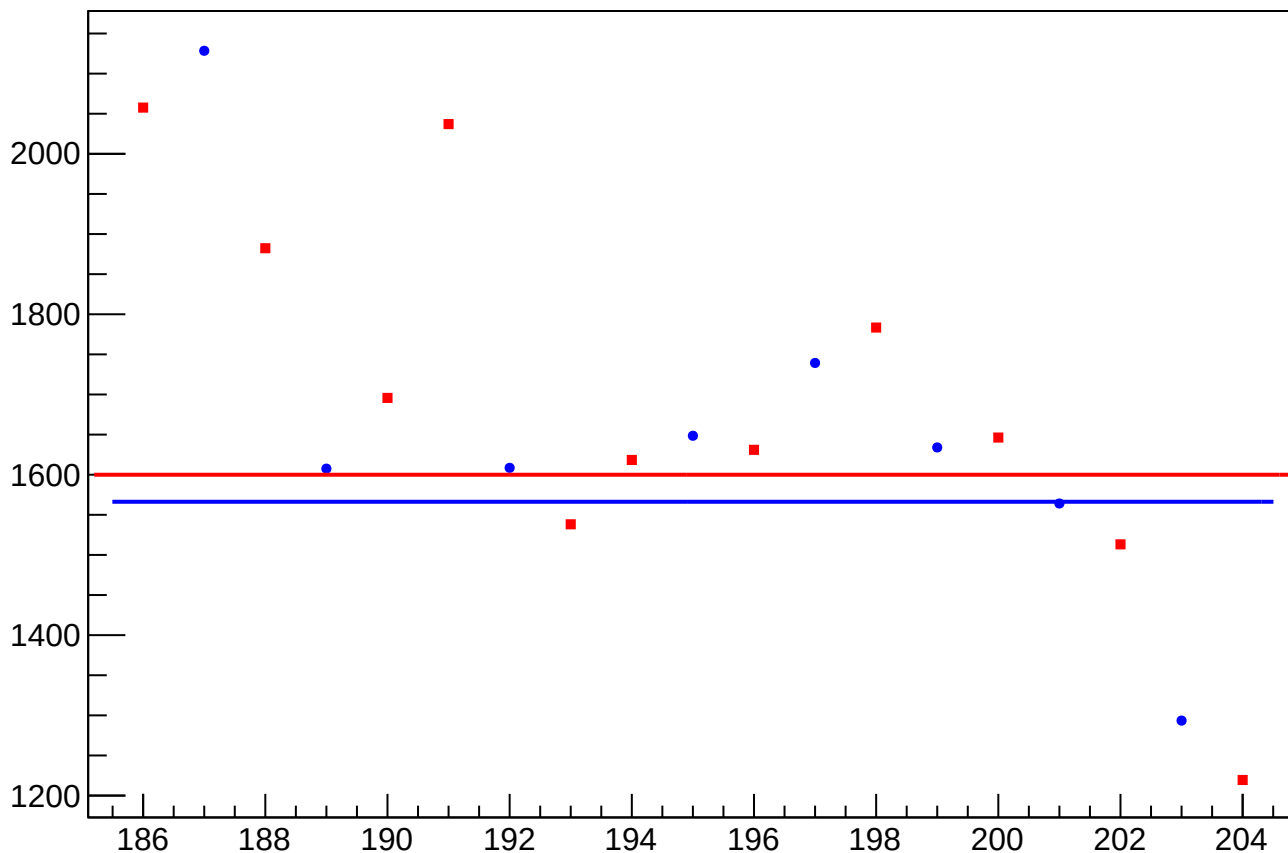
Right: 173.351+/-451.125 χ^2/NDF : 17.9/18

In: 852.903+/-671.747 χ^2/NDF : 6.2/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 173.351+/-451.125 χ^2/NDF : 17.9/18

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1566.274+/-0.475 χ^2/NDF : 115645.2/7

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1599.960+/-0.431 χ^2/NDF : 263938.0/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

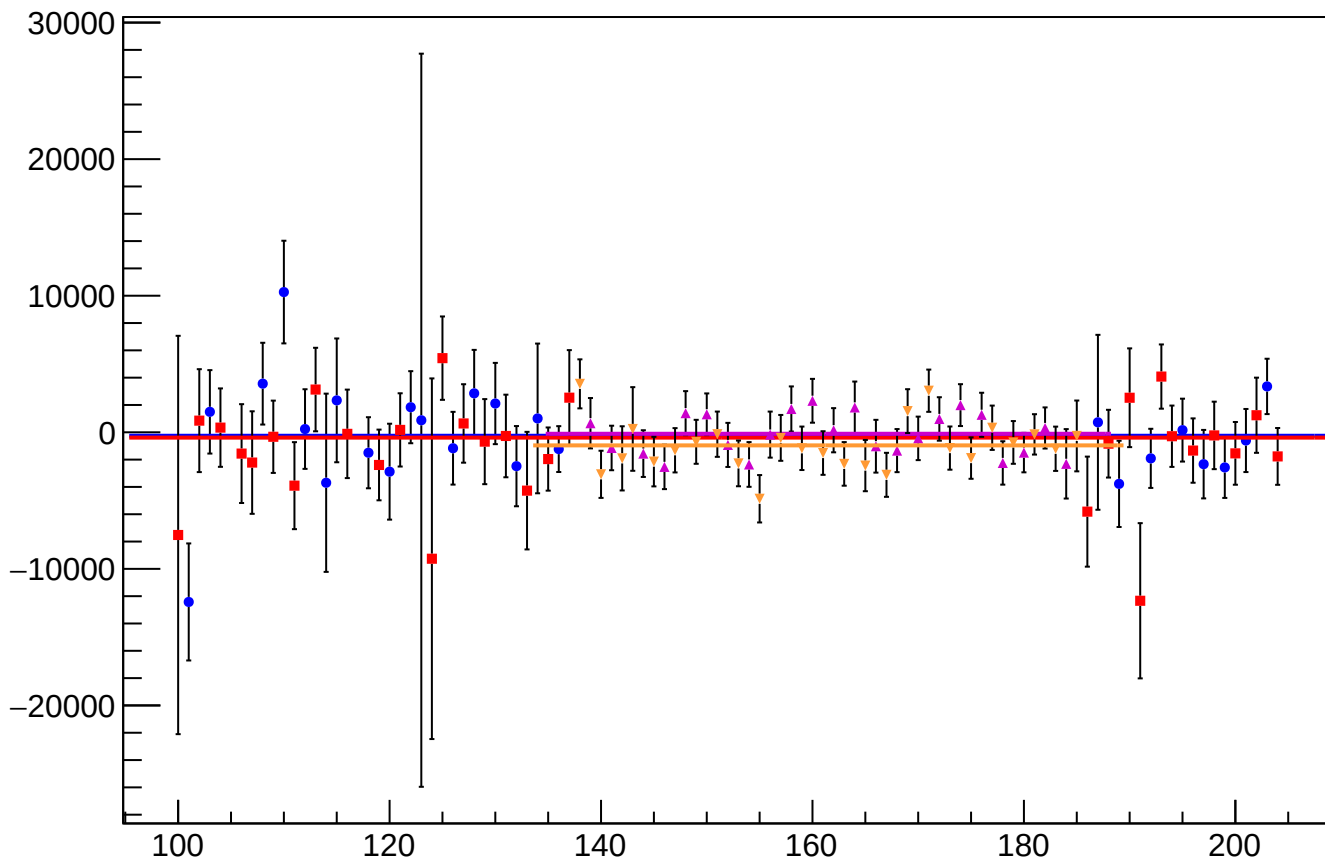
Right: 1584.768+/-0.319 χ^2/NDF : 382344.4/18

In: 1566.274+/-0.475 χ^2/NDF : 115645.2/7

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1584.768+/-0.319 χ^2/NDF : 382344.4/18

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -254.026+/-569.640 χ^2/NDF : 29.4/24

Left Out: -958.410+/-339.496 χ^2/NDF :28.5/24

Right Out: -390.102+/-538.116 χ^2/NDF : 21.9/29

Left In: -107.512+/-343.663 χ^2/NDF :19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

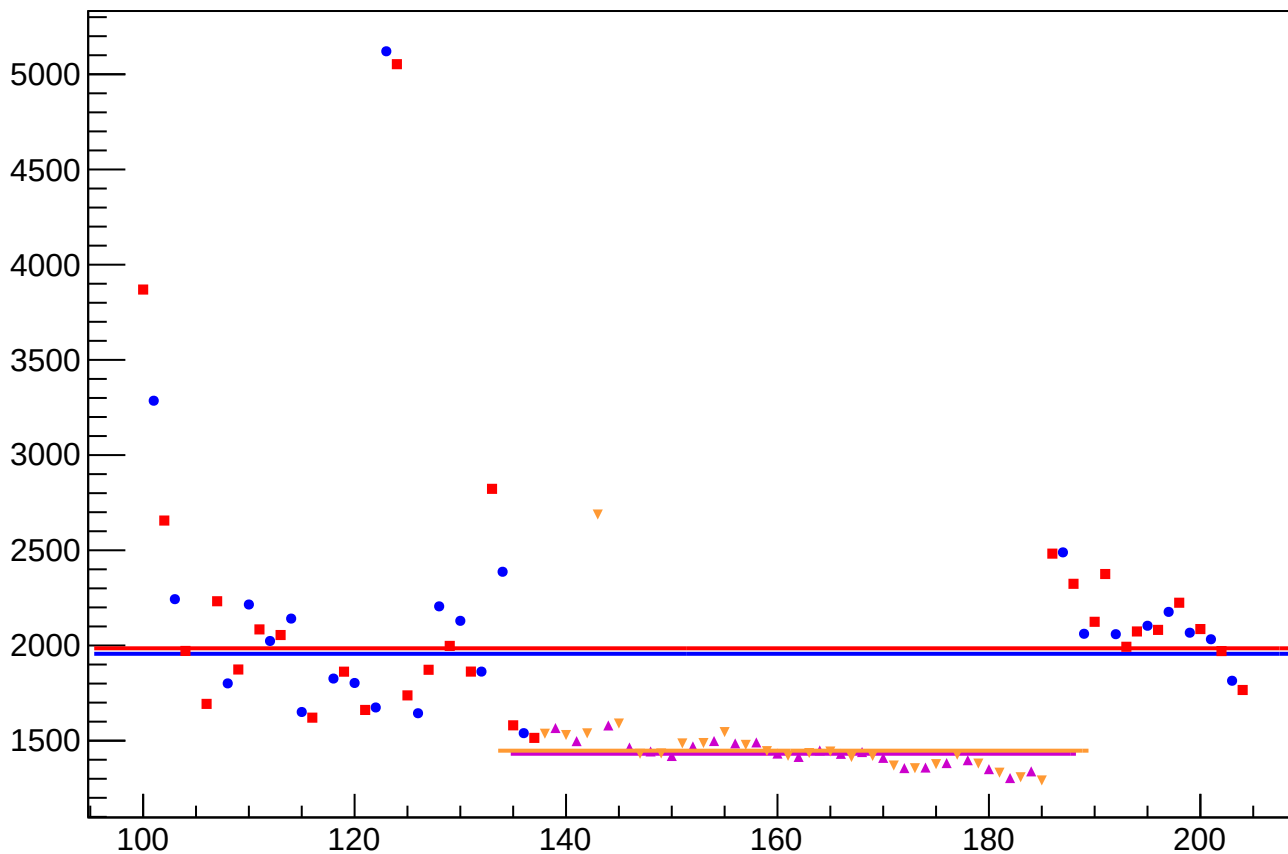
Right: -325.934+/-391.175 χ^2/NDF : 51.3/54

In: -146.609+/-294.259 χ^2/NDF :48.9/47

Out: -796.608+/-287.129 χ^2/NDF :51.2/54

All: -479.579+/-205.505 χ^2/NDF : 102.6/102

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1956.372 $\pm$ 0.403 χ^2 /NDF: 541325.3/24

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1985.169 $\pm$ 0.381 χ^2 /NDF: 616426.1/29

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

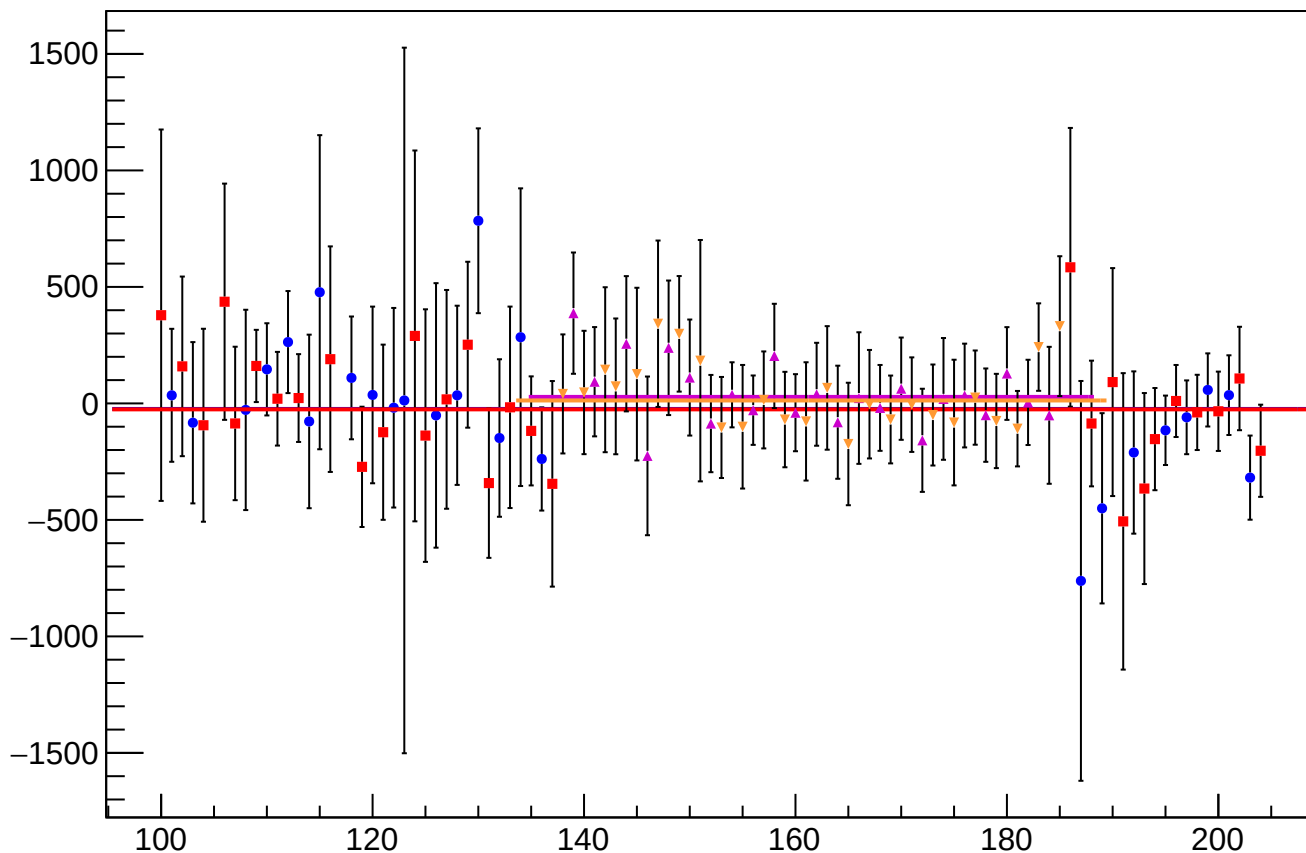
Right: 1971.590 $\pm$ 0.277 χ^2 /NDF: 1160452.3/54

In: 1571.528 $\pm$ 0.208 χ^2 /NDF: 1861564.9/47

Out: 1600.620 $\pm$ 0.203 χ^2 /NDF: 2463614.8/54

All: 1586.431 $\pm$ 0.145 χ^2 /NDF: 4335193.9/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -23.798 ± 52.496 $\chi^2/\text{NDF}: 14.5/24$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -25.575 ± 49.121 $\chi^2/\text{NDF}: 10.6/29$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

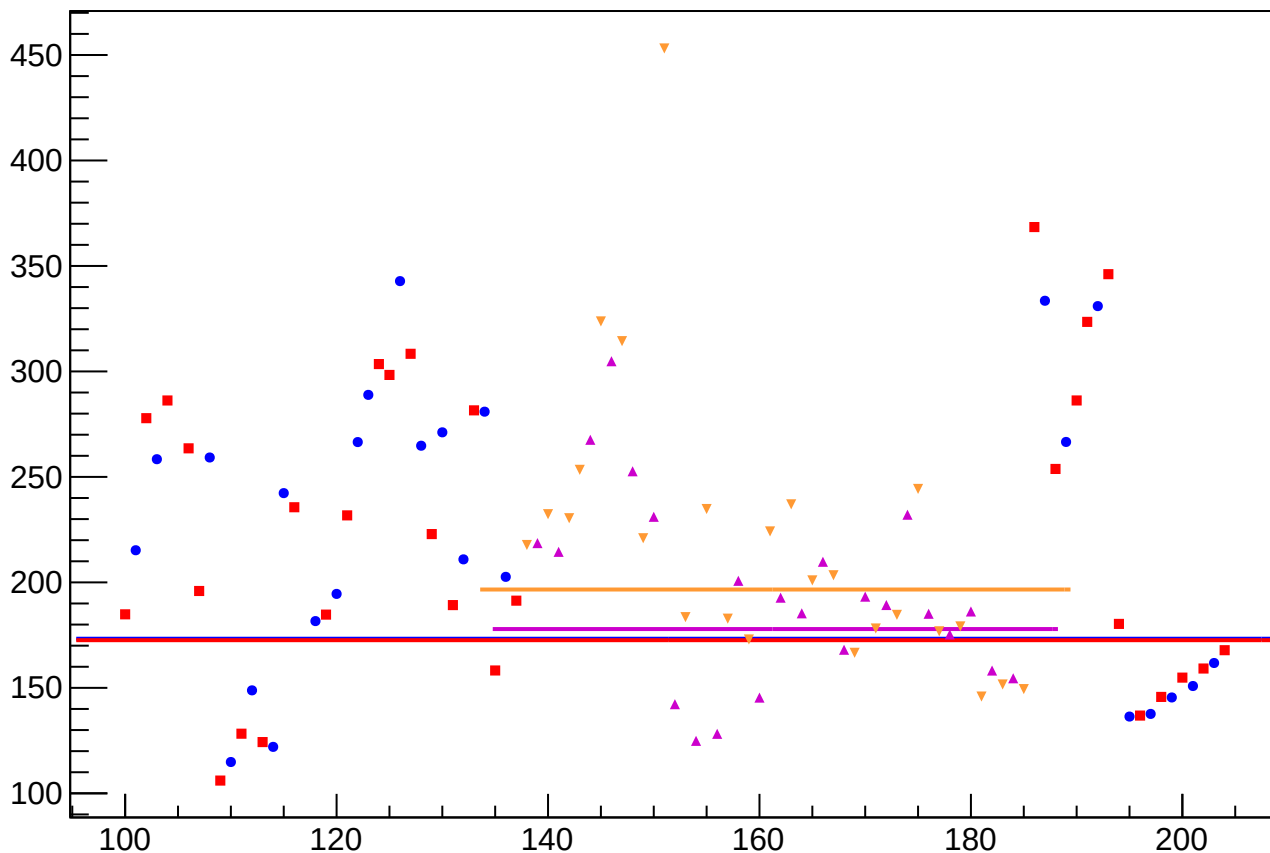
Right: -24.745 ± 35.867 $\chi^2/\text{NDF}: 25.0/54$

In: 6.283 ± 33.955 $\chi^2/\text{NDF}: 21.6/47$

Out: -5.832 ± 34.141 $\chi^2/\text{NDF}: 18.5/54$

All: 0.258 ± 24.075 $\chi^2/\text{NDF}: 40.2/102$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.287 $\pm$ 0.037 χ^2 /NDF: 2060406.4/24

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 172.599 $\pm$ 0.035 χ^2 /NDF: 2741179.2/29

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

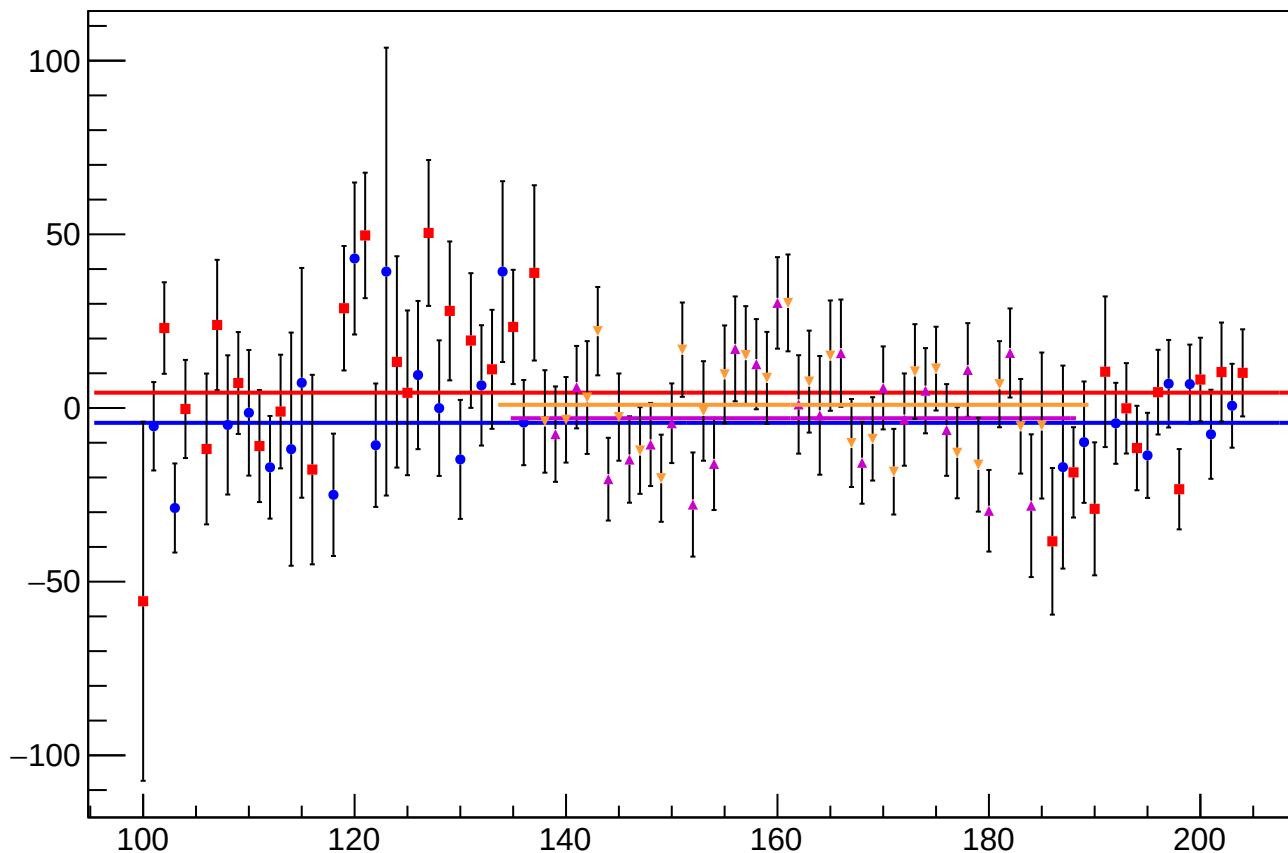
Right: 172.920 $\pm$ 0.025 χ^2 /NDF: 4801768.6/54

In: 175.957 $\pm$ 0.024 χ^2 /NDF:3713389.3/47

Out: 185.016 $\pm$ 0.024 χ^2 /NDF:4781907.3/54

All: 180.462 $\pm$ 0.017 χ^2 /NDF: 8566082.8/102

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.271 ± 3.194 χ^2/NDF : 18.2/24

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 4.413 ± 2.976 χ^2/NDF : 43.6/29

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

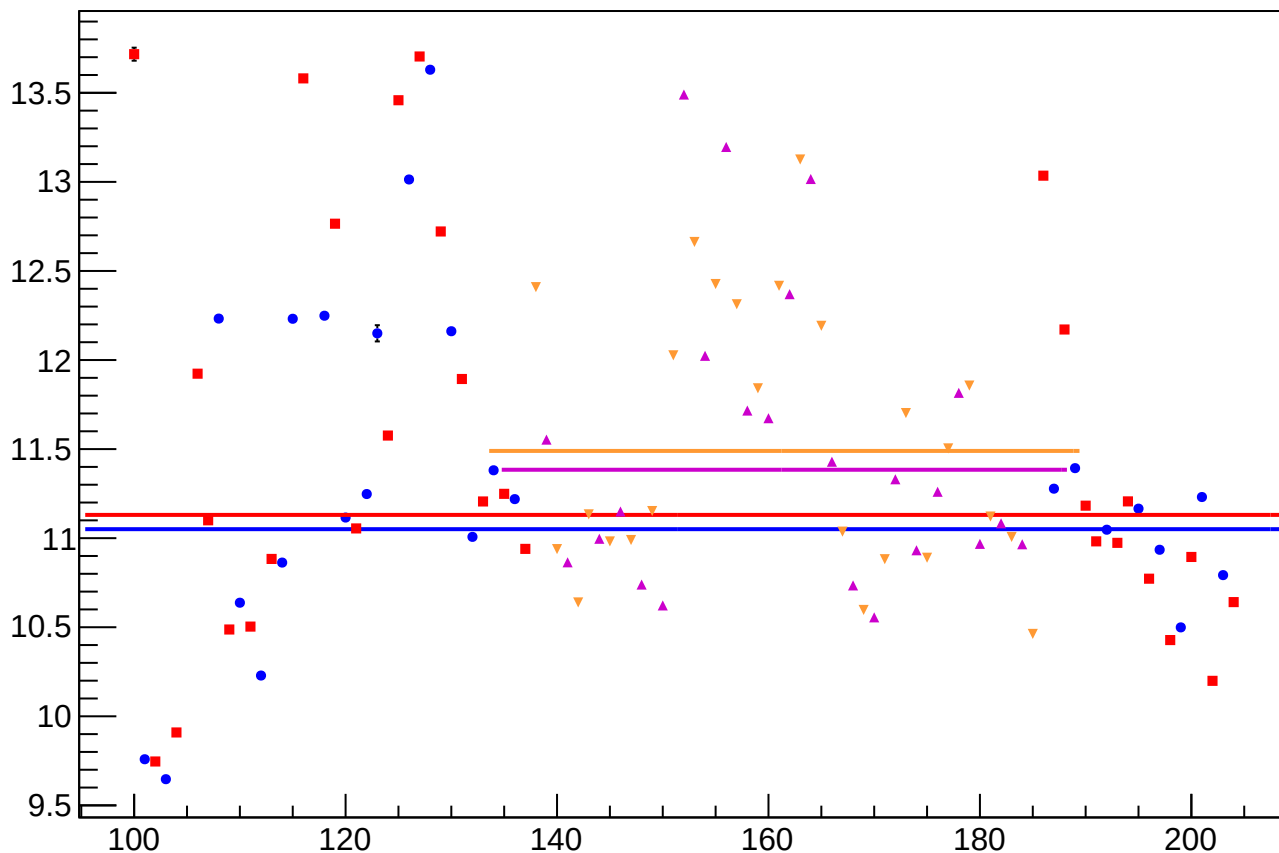
Right: 0.377 ± 2.177 χ^2/NDF : 65.7/54

In: -3.506 ± 2.082 χ^2/NDF : 49.3/47

Out: 2.494 ± 1.998 χ^2/NDF : 68.3/54

All: -0.383 ± 1.442 χ^2/NDF : 121.9/102

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.050+/-0.002 χ^2/NDF : 139679.4/24

Left Out: 11.490+/-0.002 χ^2/NDF : 132399.1/24

Right Out: 11.131+/-0.002 χ^2/NDF : 201615.5/29

Left In: 11.384+/-0.002 χ^2/NDF : 149799.6/22

Left: 11.438+/-0.001 χ^2/NDF : 283707.5/47

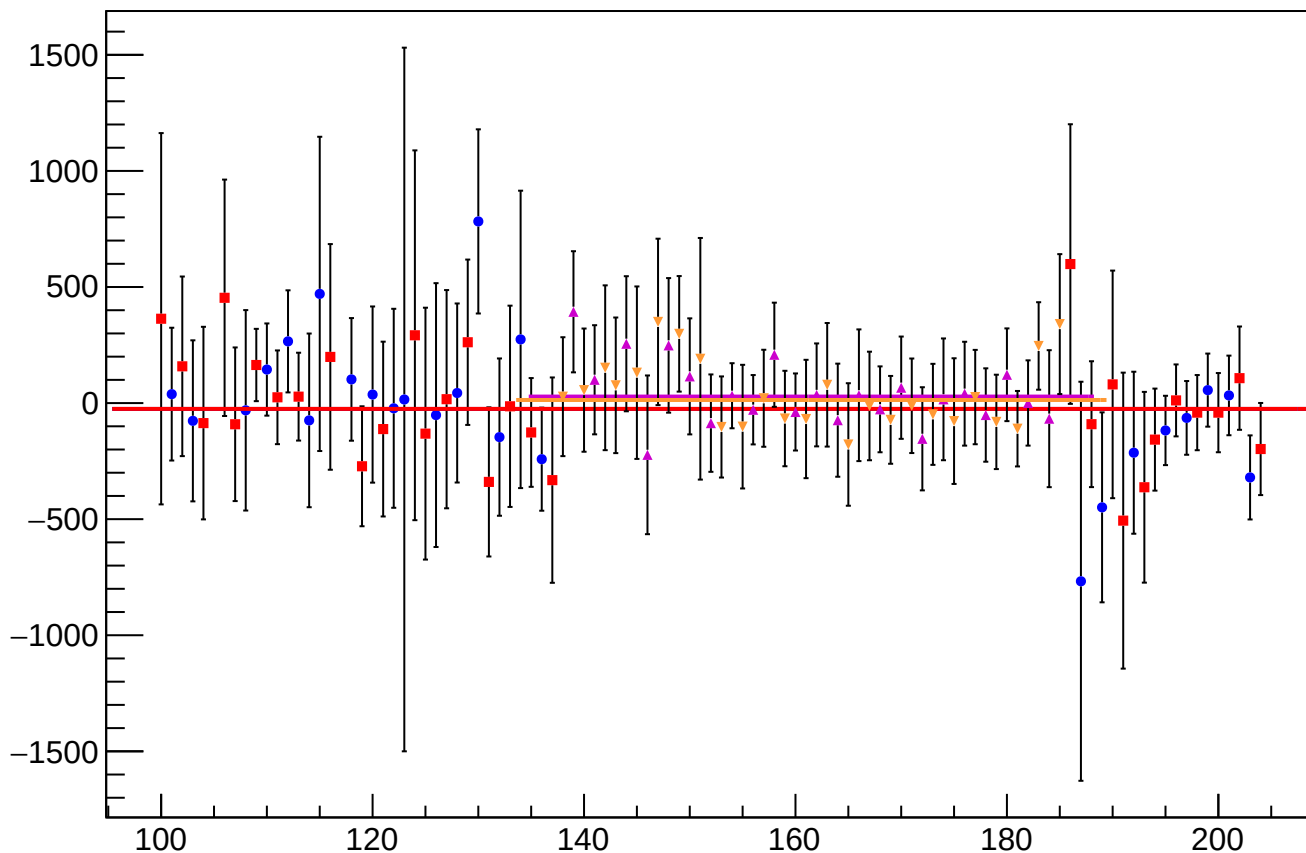
Right: 11.093+/-0.002 χ^2/NDF : 341968.5/54

In: 11.242+/-0.001 χ^2/NDF : 302028.4/47

Out: 11.328+/-0.001 χ^2/NDF : 350011.4/54

All: 11.287+/-0.001 χ^2/NDF : 653795.9/102

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -25.367 ± 52.633 $\chi^2/\text{NDF}: 14.4/24$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -25.010 ± 49.256 $\chi^2/\text{NDF}: 10.7/29$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

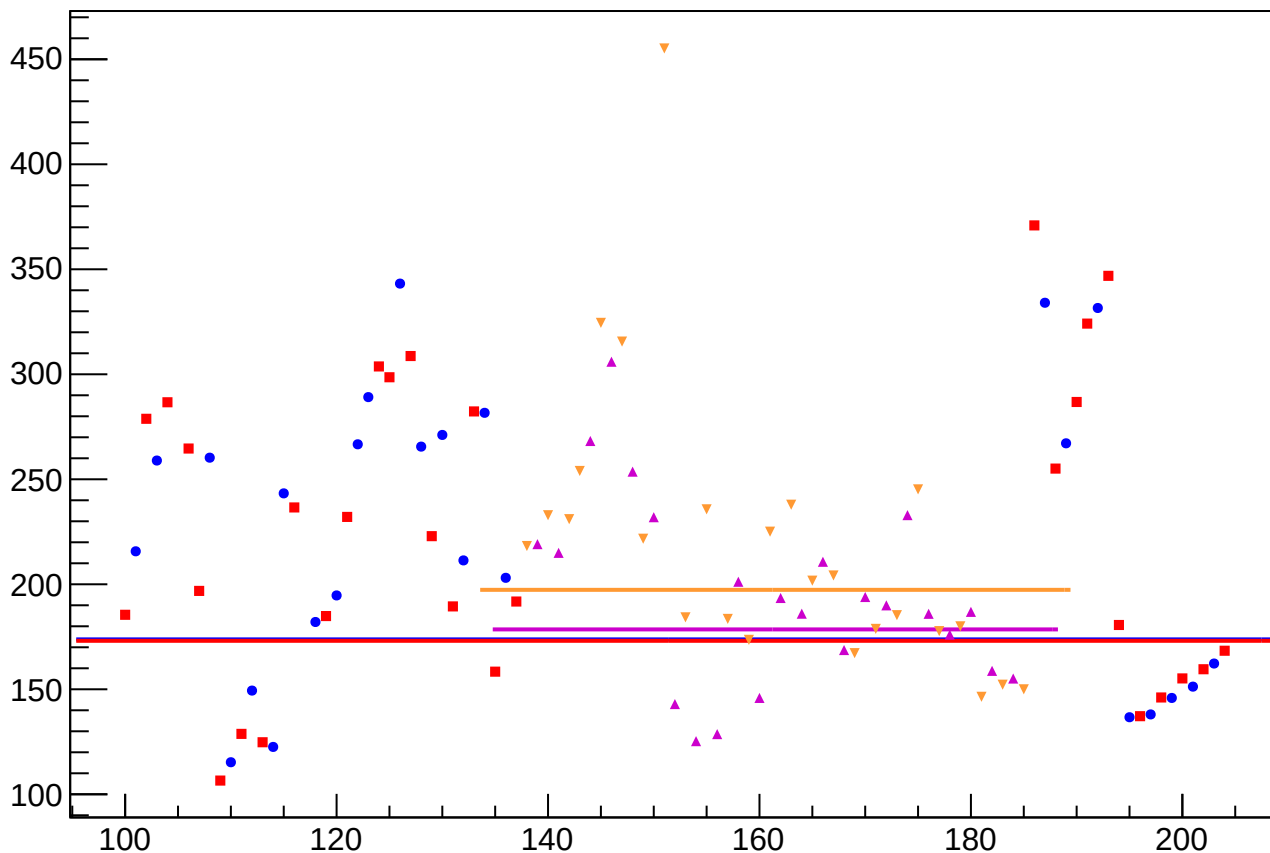
Right: -25.176 ± 35.964 $\chi^2/\text{NDF}: 25.1/54$

In: 5.677 ± 34.063 $\chi^2/\text{NDF}: 21.7/47$

Out: -5.213 ± 34.252 $\chi^2/\text{NDF}: 18.8/54$

All: 0.262 ± 24.153 $\chi^2/\text{NDF}: 40.6/102$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.761 $\pm$ 0.037 χ^2 /NDF: 2054988.7/24

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 173.091 $\pm$ 0.035 χ^2 /NDF: 2737109.6/29

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

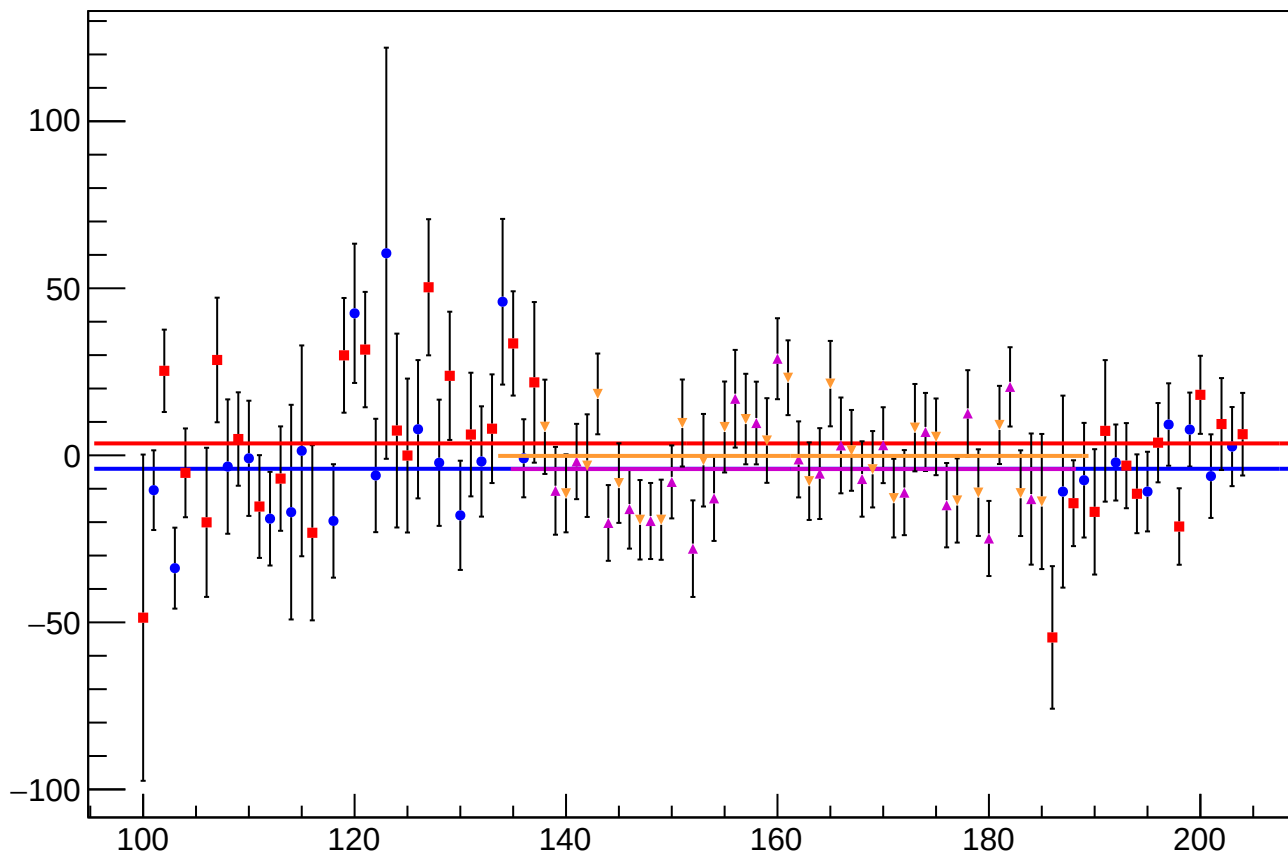
Right: 173.404 $\pm$ 0.025 χ^2 /NDF: 4792271.3/54

In: 176.522 $\pm$ 0.024 χ^2 /NDF:3706763.8/47

Out: 185.622 $\pm$ 0.024 χ^2 /NDF:4778589.4/54

All: 181.047 $\pm$ 0.017 χ^2 /NDF: 8556325.9/102

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.025 ± 3.081 $\chi^2/\text{NDF}: 22.9/24$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.568 ± 2.881 $\chi^2/\text{NDF}: 45.4/29$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

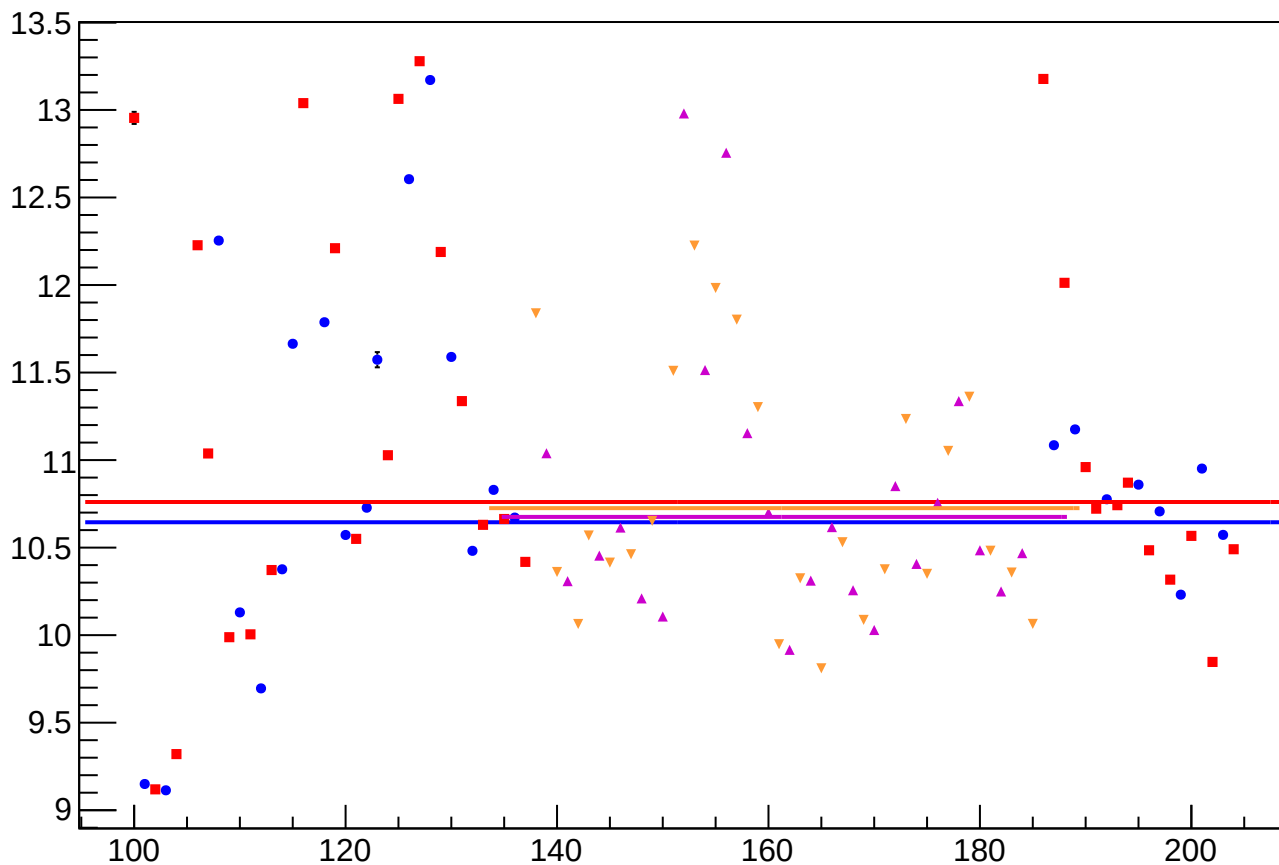
Right: 0.025 ± 2.104 $\chi^2/\text{NDF}: 71.5/54$

In: -4.073 ± 1.977 $\chi^2/\text{NDF}: 54.5/47$

Out: 1.450 ± 1.897 $\chi^2/\text{NDF}: 70.7/54$

All: -1.198 ± 1.369 $\chi^2/\text{NDF}: 129.2/102$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.645 $\pm$ 0.002 χ^2 /NDF: 167019.9/24

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.761 $\pm$ 0.002 χ^2 /NDF: 237651.1/29

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

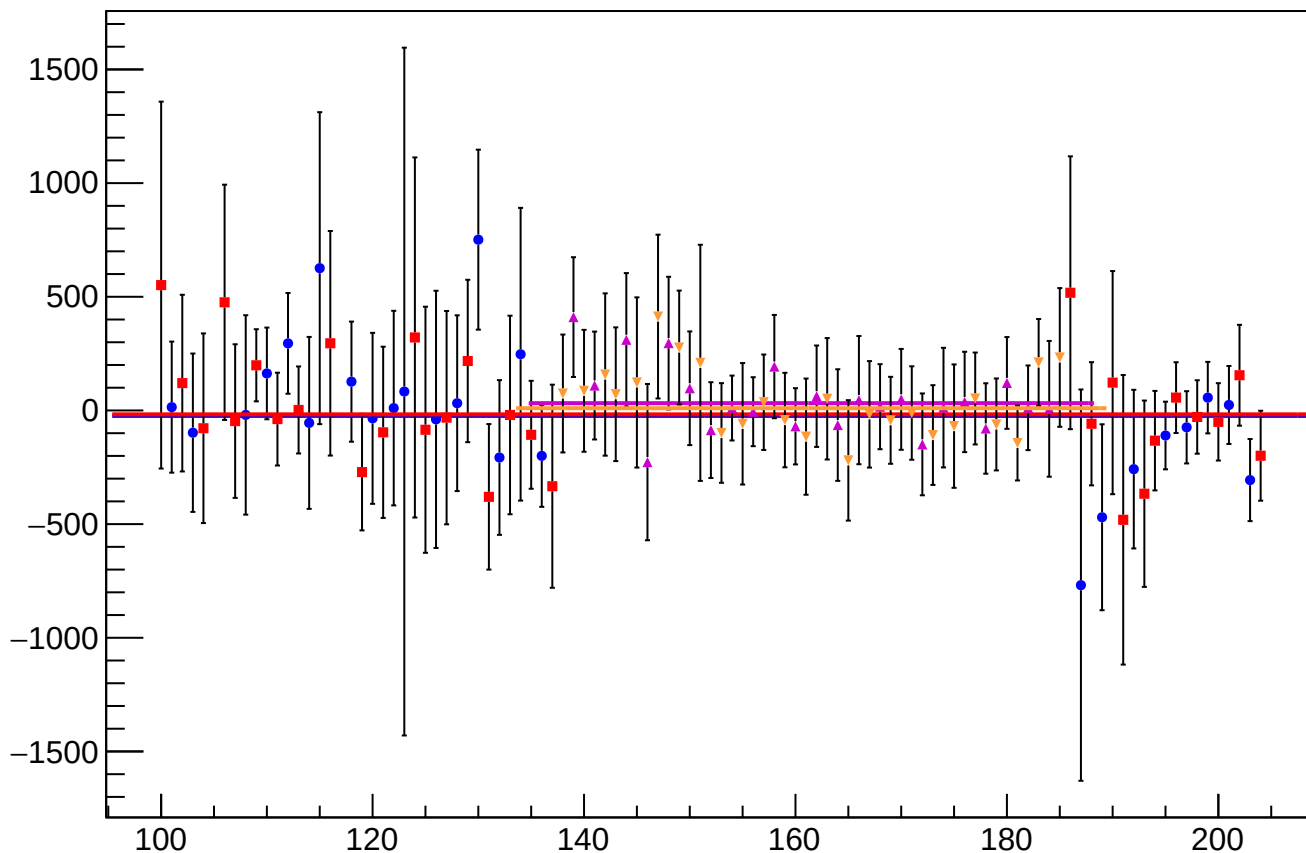
Right: 10.707 $\pm$ 0.001 χ^2 /NDF: 406175.8/54

In: 10.663 $\pm$ 0.001 χ^2 /NDF:313074.0/47

Out: 10.741 $\pm$ 0.001 χ^2 /NDF:369990.0/54

All: 10.703 $\pm$ 0.001 χ^2 /NDF: 684678.2/102

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -23.844 ± 52.748 $\chi^2/\text{NDF}: 14.8/24$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -17.189 ± 49.455 $\chi^2/\text{NDF}: 11.6/29$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

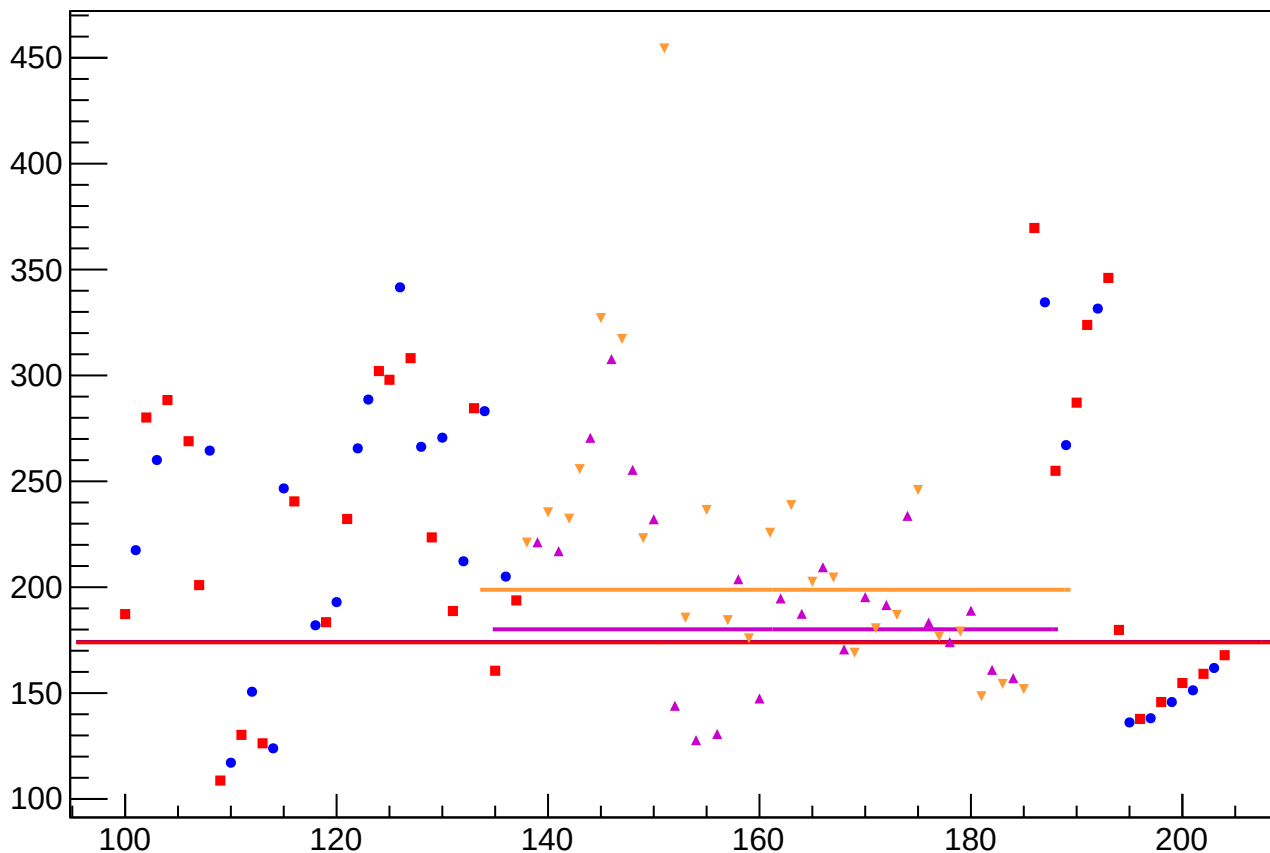
Right: -20.303 ± 36.078 $\chi^2/\text{NDF}: 26.4/54$

In: 8.447 ± 34.251 $\chi^2/\text{NDF}: 22.6/47$

Out: -3.285 ± 34.436 $\chi^2/\text{NDF}: 19.3/54$

All: 2.612 ± 24.285 $\chi^2/\text{NDF}: 41.9/102$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.147 $\pm$ 0.037 χ^2 /NDF: 2052365.5/24

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 173.975 $\pm$ 0.035 χ^2 /NDF: 2691937.3/29

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF:1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

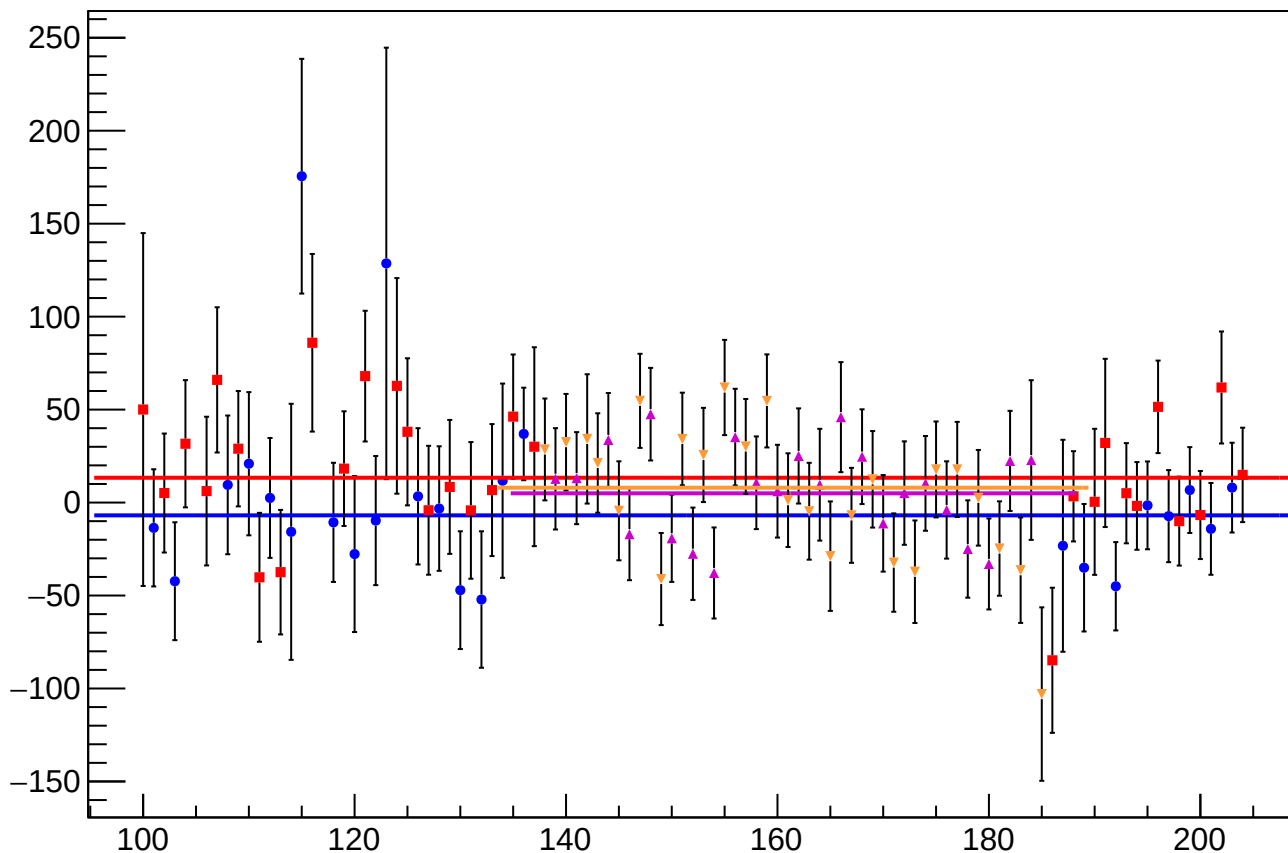
Right: 174.056 $\pm$ 0.026 χ^2 /NDF: 4744314.1/54

In: 177.603 $\pm$ 0.024 χ^2 /NDF:3661052.9/47

Out: 186.764 $\pm$ 0.024 χ^2 /NDF:4714659.1/54

All: 182.159 $\pm$ 0.017 χ^2 /NDF: 8446855.8/102

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.879 ± 6.427 $\chi^2/\text{NDF}: 22.7/24$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 13.346 ± 5.968 $\chi^2/\text{NDF}: 28.7/29$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

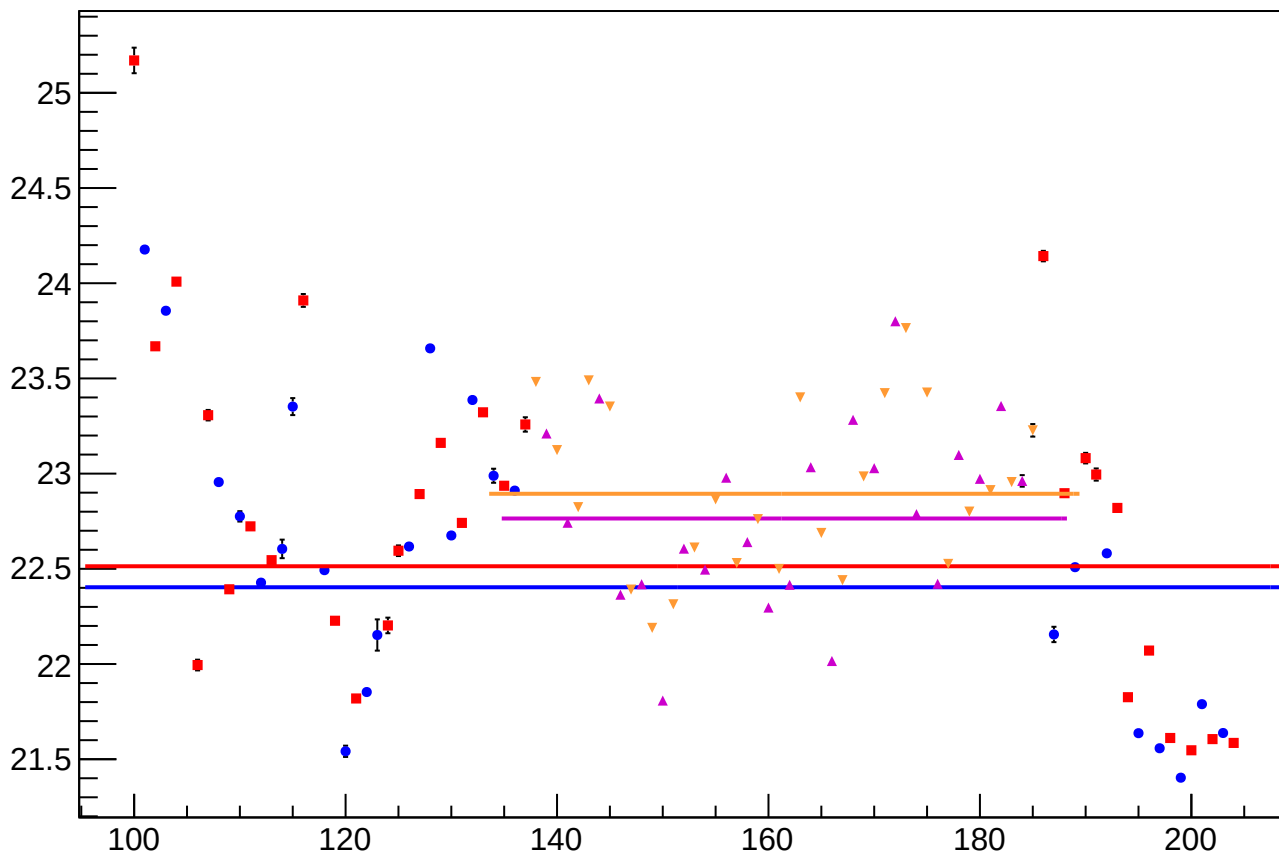
Right: 3.981 ± 4.373 $\chi^2/\text{NDF}: 56.7/54$

In: 0.021 ± 4.154 $\chi^2/\text{NDF}: 45.2/47$

Out: 10.365 ± 3.974 $\chi^2/\text{NDF}: 66.6/54$

All: 5.422 ± 2.872 $\chi^2/\text{NDF}: 115.0/102$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.403+/-0.005 χ^2/NDF : 30153.8/24

Left Out: 22.894+/-0.004 χ^2/NDF :13070.5/24

Right Out: 22.513+/-0.004 χ^2/NDF : 32585.0/29

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

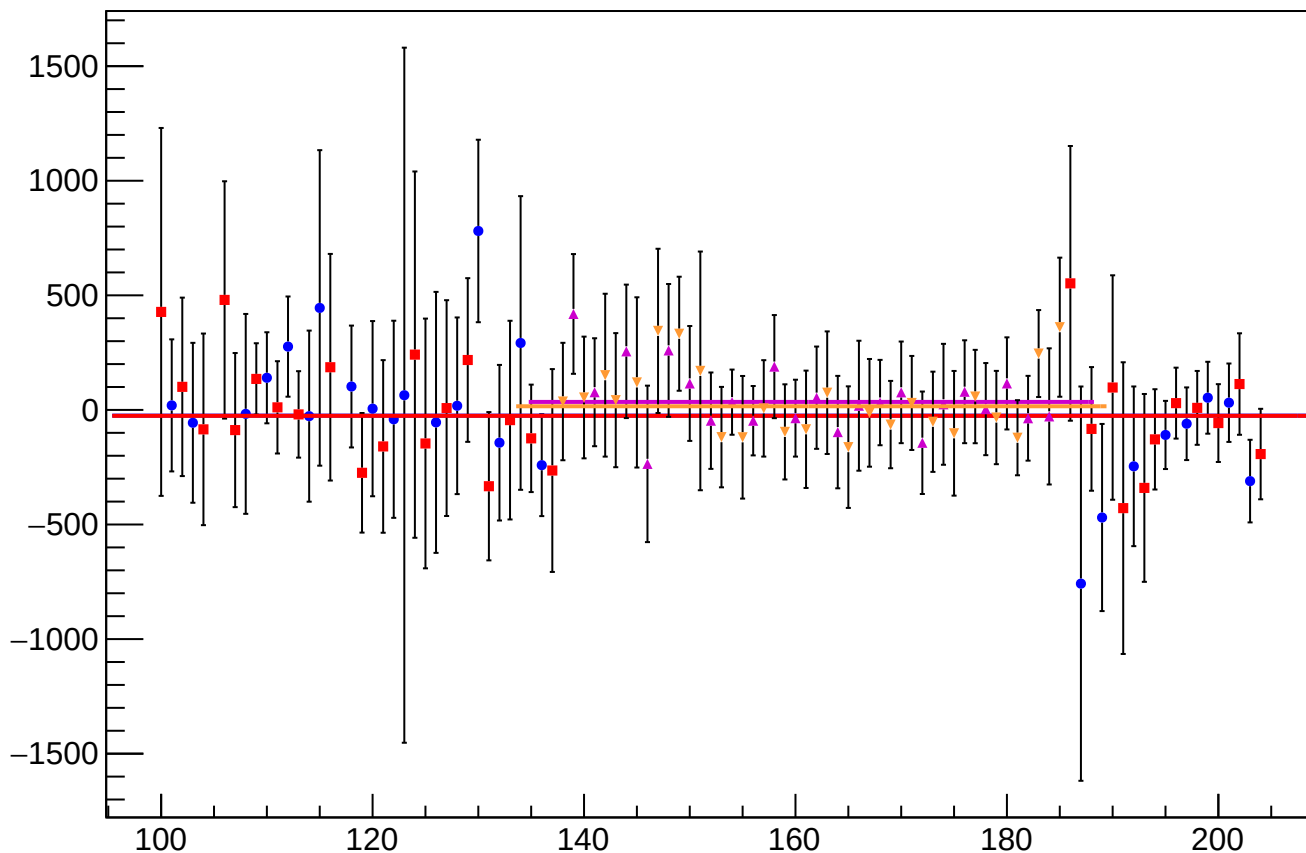
Right: 22.462+/-0.003 χ^2/NDF : 63055.0/54

In: 22.613+/-0.003 χ^2/NDF :48496.0/47

Out: 22.725+/-0.003 χ^2/NDF :50184.4/54

All: 22.672+/-0.002 χ^2/NDF : 99438.3/102

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -24.896 ± 52.592 $\chi^2/\text{NDF}: 14.3/24$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -25.770 ± 49.222 $\chi^2/\text{NDF}: 9.3/29$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

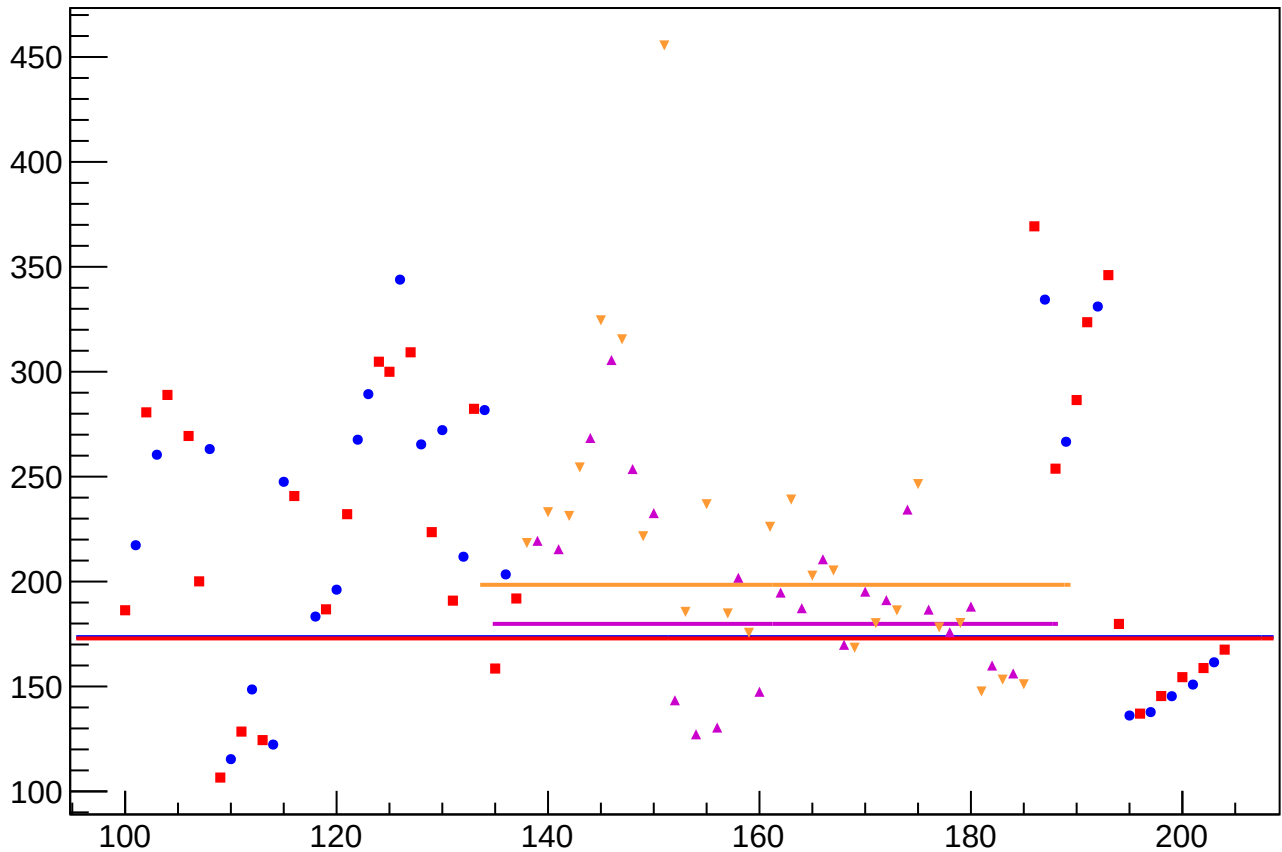
Right: -25.362 ± 35.937 $\chi^2/\text{NDF}: 23.6/54$

In: 9.656 ± 34.179 $\chi^2/\text{NDF}: 21.6/47$

Out: -4.365 ± 34.328 $\chi^2/\text{NDF}: 18.1/54$

All: 2.676 ± 24.221 $\chi^2/\text{NDF}: 39.8/102$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.525 $\pm$ 0.037 χ^2 /NDF: 2083405.1/24

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 172.898 $\pm$ 0.035 χ^2 /NDF: 2763371.3/29

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

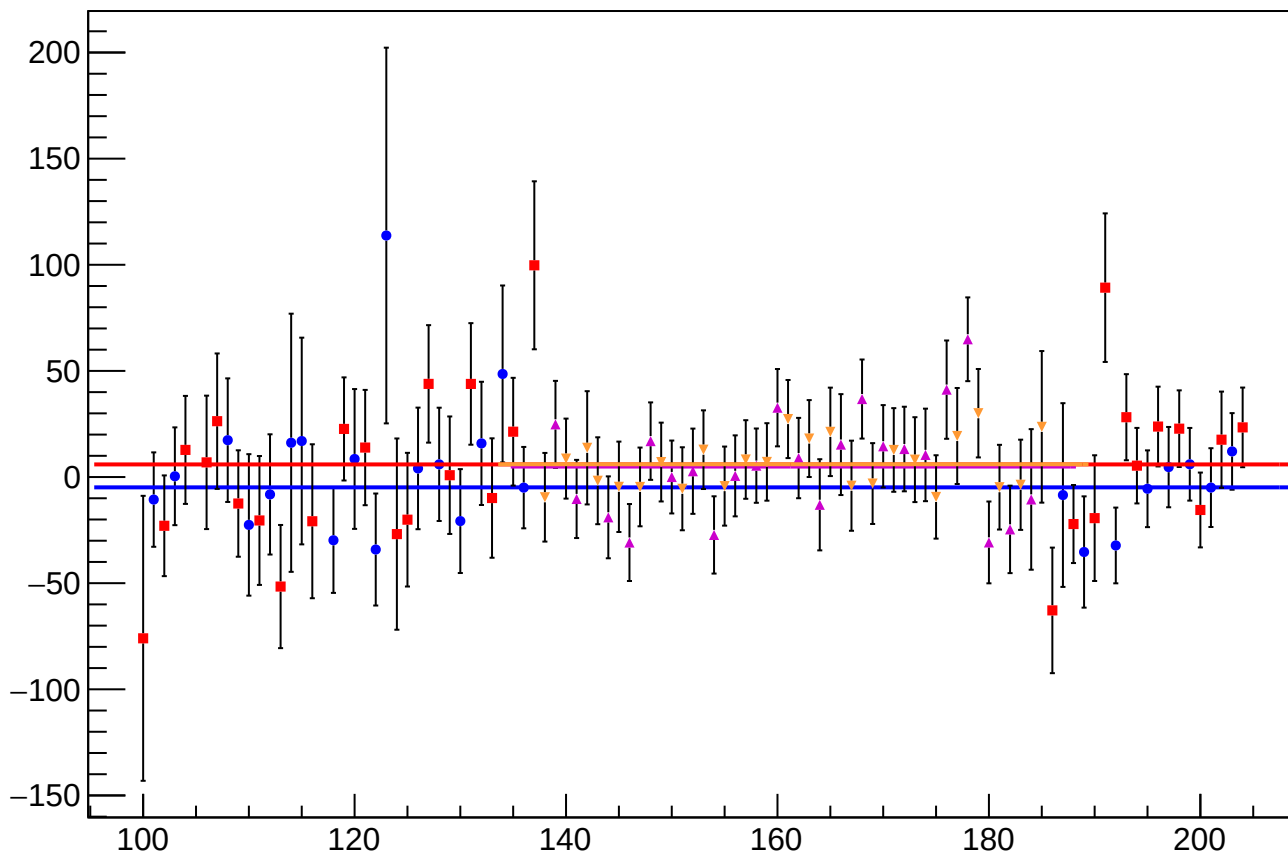
Right: 173.191 $\pm$ 0.025 χ^2 /NDF: 4846928.1/54

In: 177.172 $\pm$ 0.024 χ^2 /NDF:3688890.0/47

Out: 186.022 $\pm$ 0.024 χ^2 /NDF:4801631.0/54

All: 181.578 $\pm$ 0.017 χ^2 /NDF: 8557269.1/102

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.861 ± 4.927 χ^2/NDF : 13.6/24

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 5.947 ± 4.585 χ^2/NDF : 40.7/29

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

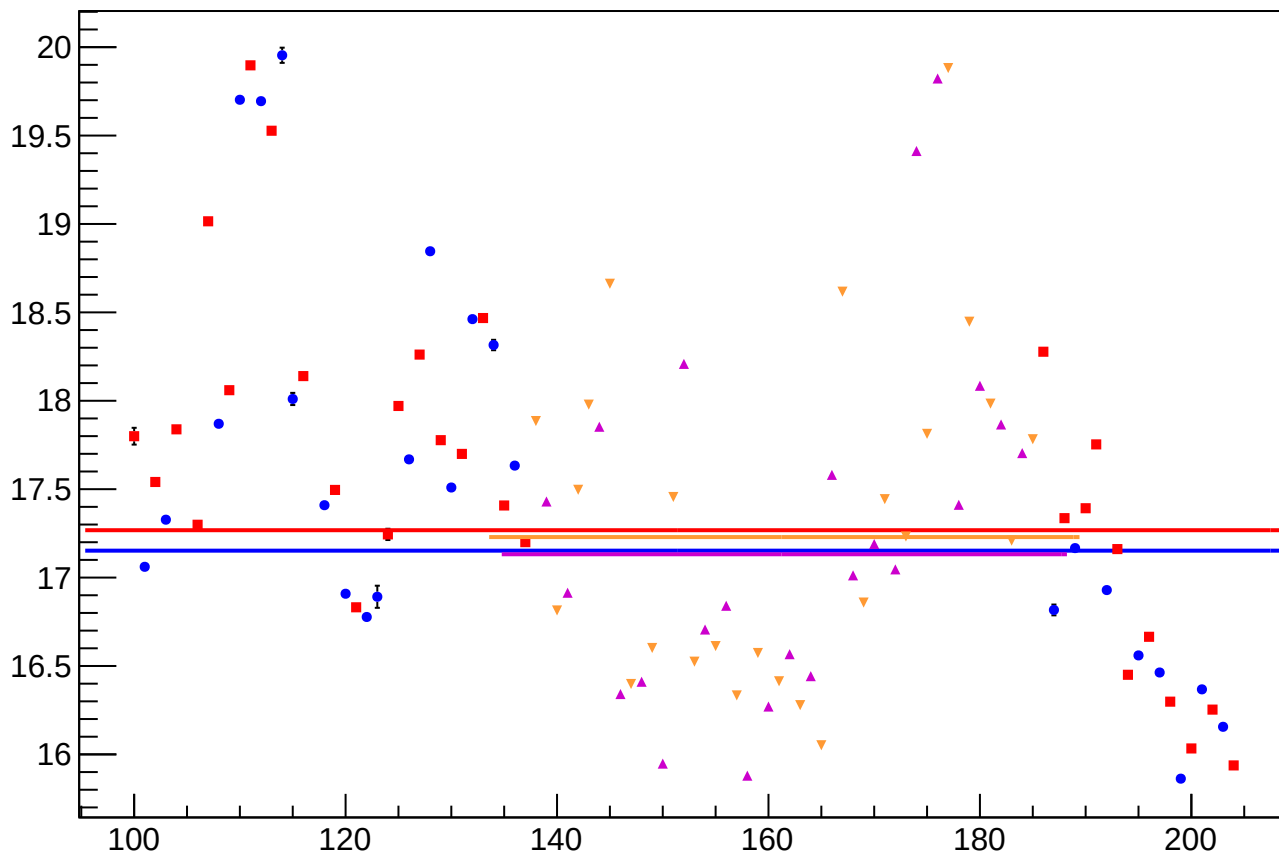
Right: 0.931 ± 3.357 χ^2/NDF : 56.9/54

In: 0.924 ± 3.155 χ^2/NDF : 50.8/47

Out: 5.988 ± 3.022 χ^2/NDF : 48.8/54

All: 3.565 ± 2.182 χ^2/NDF : 101.0/102

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.152 $\pm$ 0.003 χ^2 /NDF: 77082.9/24

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF: 98624.7/24

Right Out: 17.268 $\pm$ 0.003 χ^2 /NDF: 85540.2/29

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF: 103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

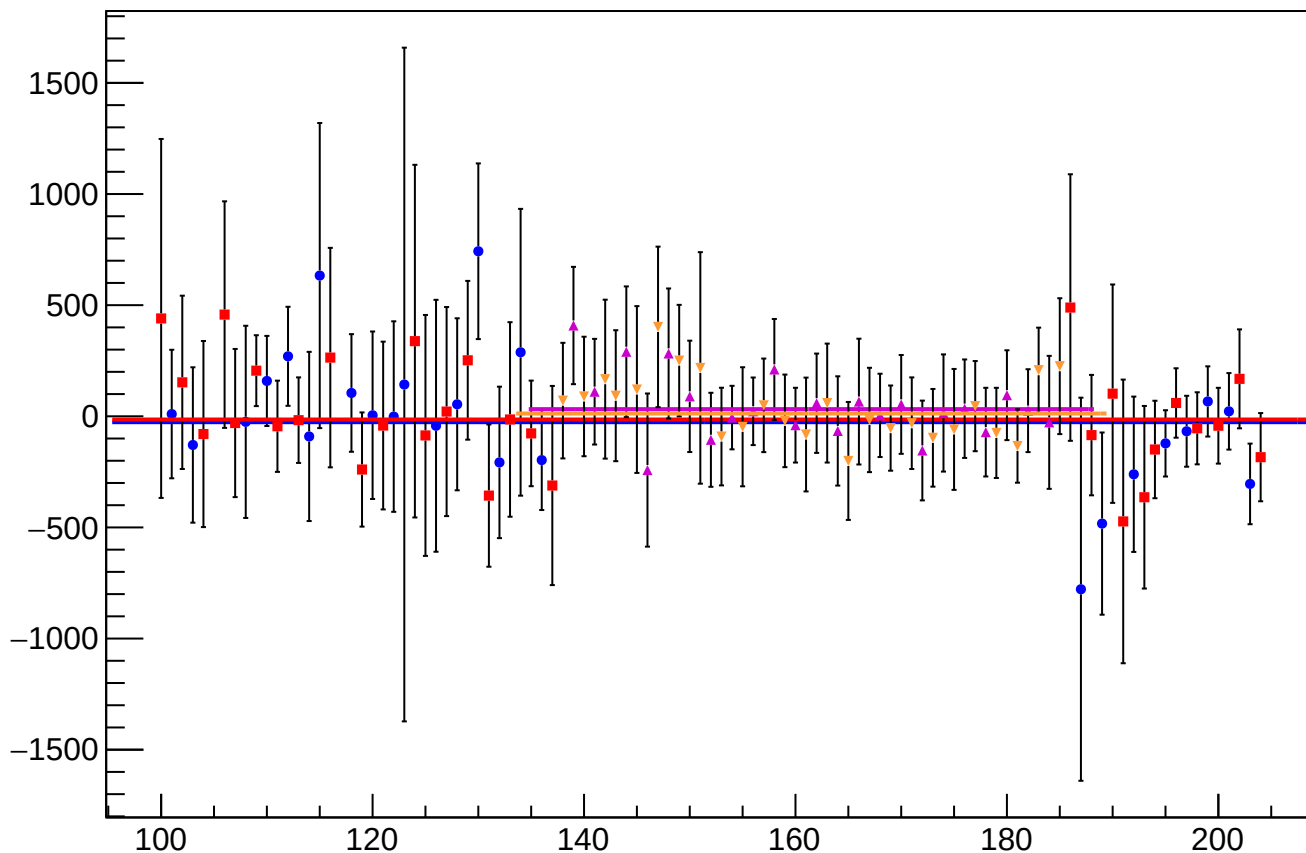
Right: 17.214 $\pm$ 0.002 χ^2 /NDF: 163213.5/54

In: 17.140 $\pm$ 0.002 χ^2 /NDF: 181100.6/47

Out: 17.246 $\pm$ 0.002 χ^2 /NDF: 184245.9/54

All: 17.195 $\pm$ 0.002 χ^2 /NDF: 366518.5/102

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -26.523 ± 52.908 χ^2/NDF : 14.6/24

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -14.423 ± 49.577 χ^2/NDF : 11.0/29

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

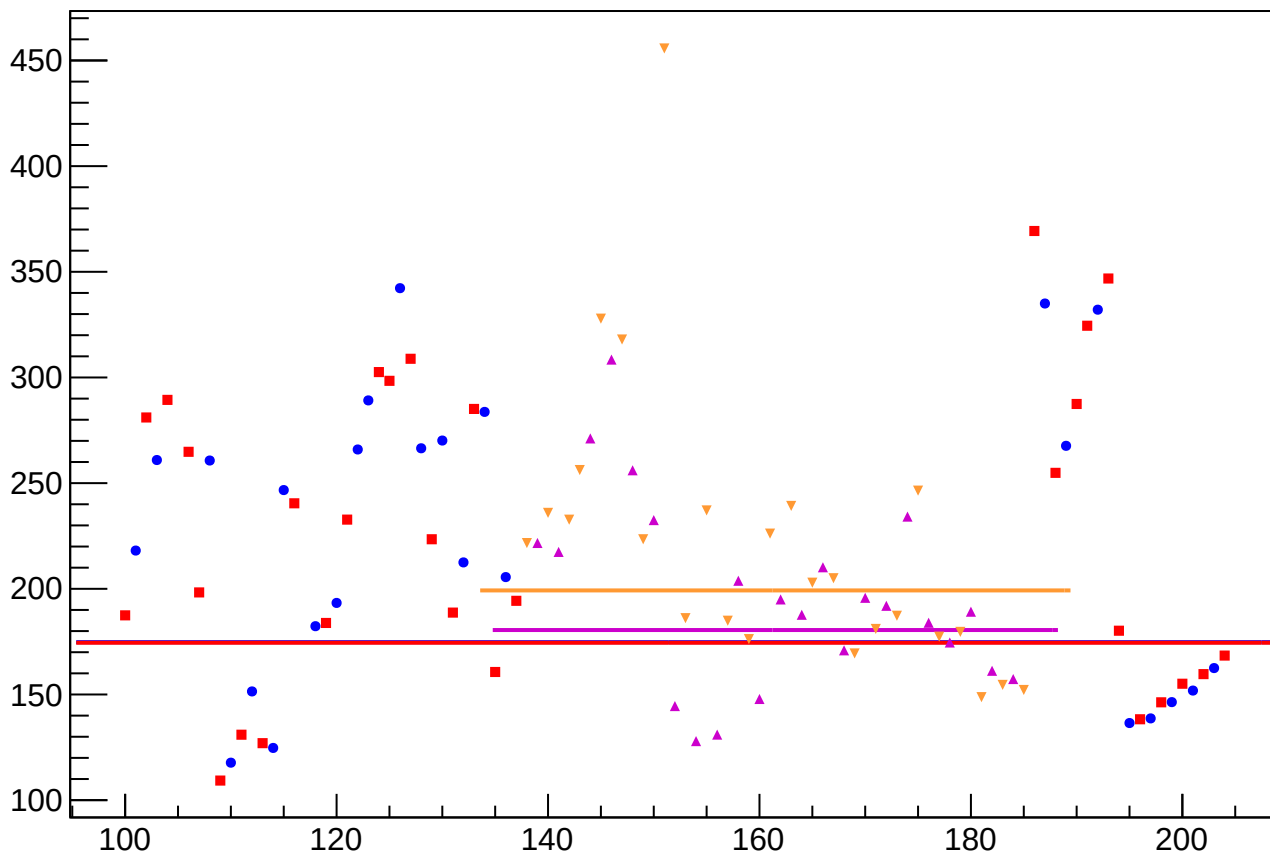
Right: -20.080 ± 36.177 χ^2/NDF : 25.6/54

In: 7.444 ± 34.336 χ^2/NDF : 22.2/47

Out: -0.563 ± 34.517 χ^2/NDF : 18.0/54

All: 3.461 ± 24.343 χ^2/NDF : 40.2/102

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.748 $\pm$ 0.037 χ^2 /NDF: 2033924.5/24

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 174.485 $\pm$ 0.035 χ^2 /NDF: 2667956.6/29

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

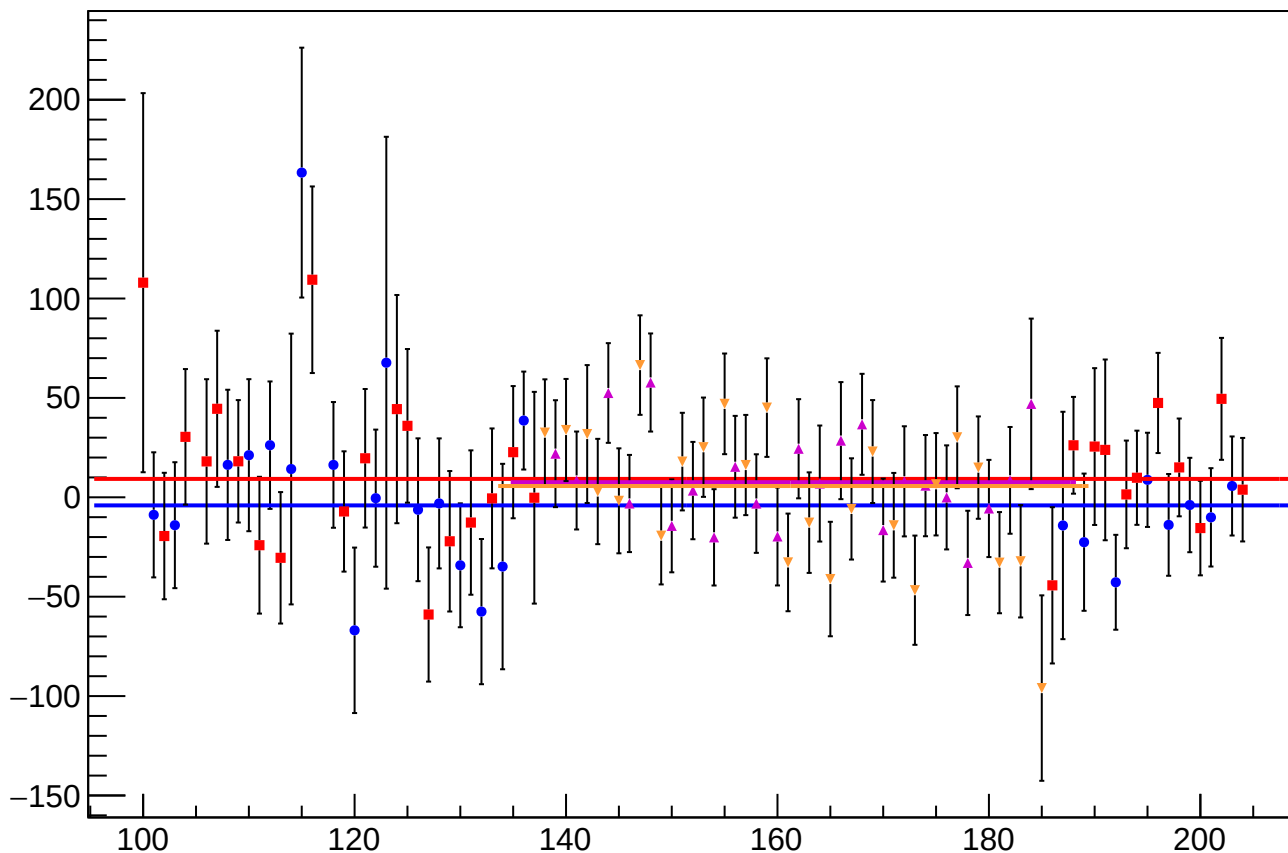
Right: 174.608 $\pm$ 0.026 χ^2 /NDF: 4701907.4/54

In: 178.074 $\pm$ 0.024 χ^2 /NDF:3641360.3/47

Out: 187.241 $\pm$ 0.024 χ^2 /NDF:4689009.6/54

All: 182.633 $\pm$ 0.017 χ^2 /NDF: 8401276.2/102

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.076 ± 6.446 χ^2/NDF : 22.0/24

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.252 ± 5.977 χ^2/NDF : 24.8/29

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

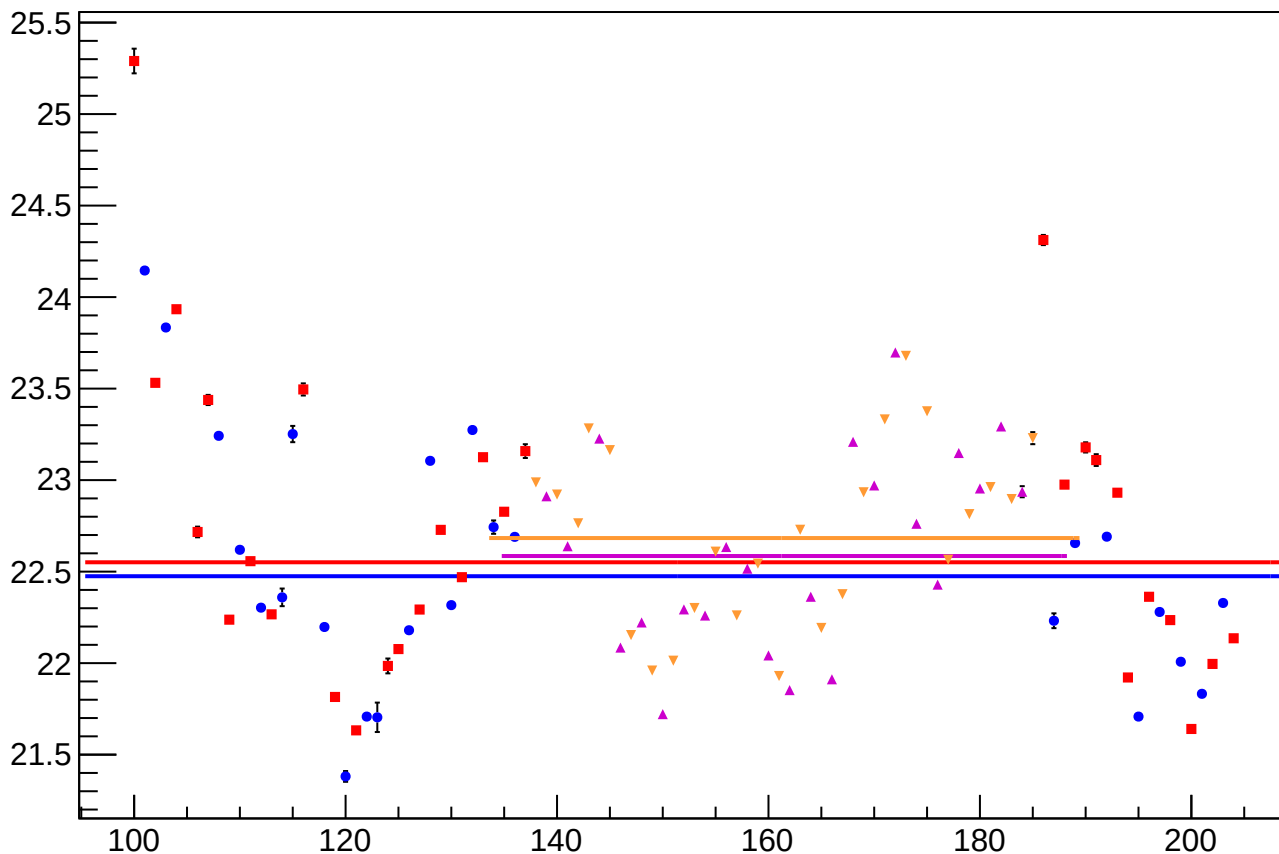
Right: 3.090 ± 4.383 χ^2/NDF : 49.1/54

In: 2.780 ± 4.140 χ^2/NDF : 42.3/47

Out: 7.241 ± 3.956 χ^2/NDF : 61.4/54

All: 5.112 ± 2.860 χ^2/NDF : 104.3/102

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.475+/-0.005 χ^2/NDF : 19907.7/24

Left Out: 22.683+/-0.004 χ^2/NDF : 16318.1/24

Right Out: 22.551+/-0.004 χ^2/NDF : 25005.0/29

Left In: 22.585+/-0.004 χ^2/NDF : 18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

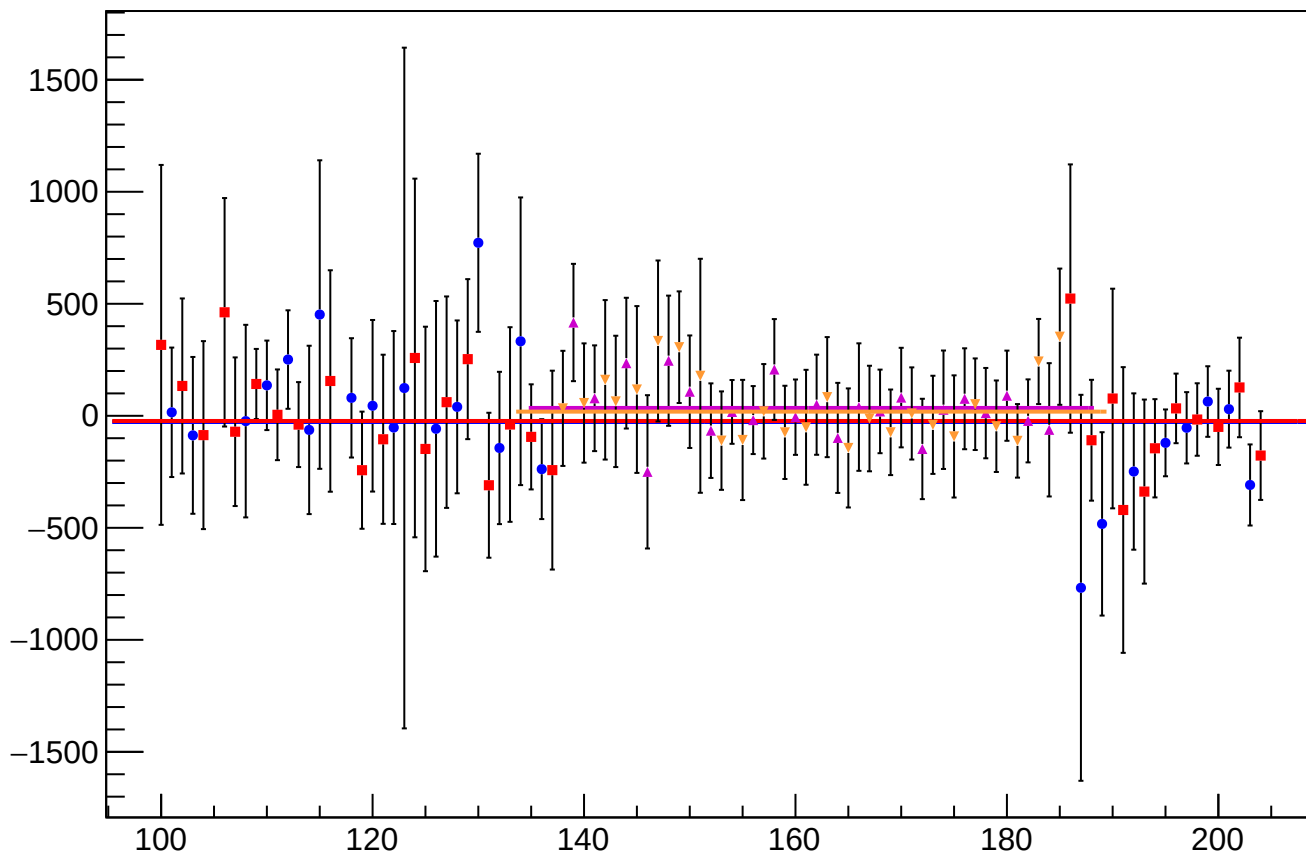
Right: 22.516+/-0.003 χ^2/NDF : 45062.7/54

In: 22.540+/-0.003 χ^2/NDF : 38339.6/47

Out: 22.625+/-0.003 χ^2/NDF : 41874.4/54

All: 22.585+/-0.002 χ^2/NDF : 80662.1/102

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.654 ± 52.753 $\chi^2/\text{NDF}: 14.1/24$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -23.071 ± 49.345 $\chi^2/\text{NDF}: 8.7/29$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

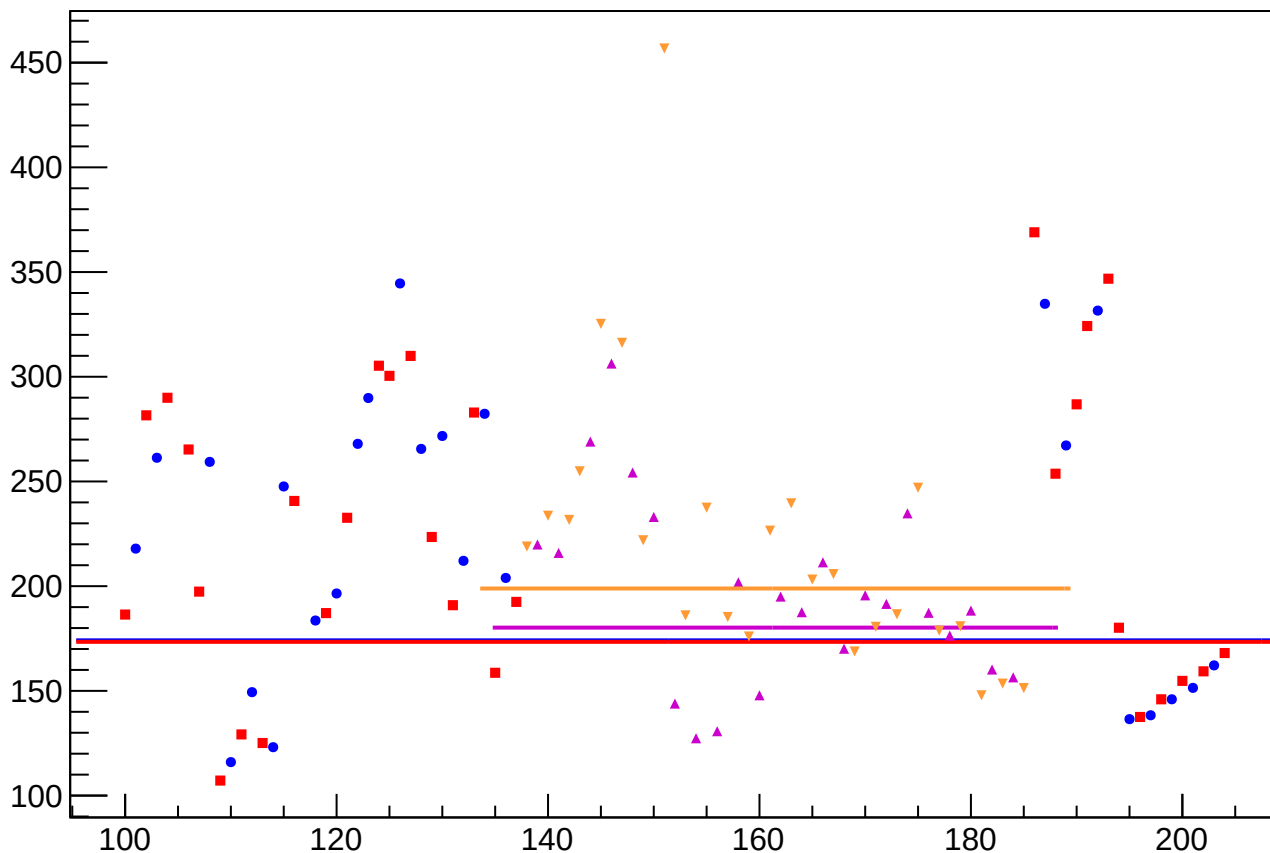
Right: -25.209 ± 36.037 $\chi^2/\text{NDF}: 22.8/54$

In: 8.595 ± 34.264 $\chi^2/\text{NDF}: 21.2/47$

Out: -1.645 ± 34.409 $\chi^2/\text{NDF}: 16.7/54$

All: 3.497 ± 24.279 $\chi^2/\text{NDF}: 37.9/102$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.132 $\pm$ 0.037 χ^2 /NDF: 2064361.0/24

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 173.417 $\pm$ 0.035 χ^2 /NDF: 2738419.2/29

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

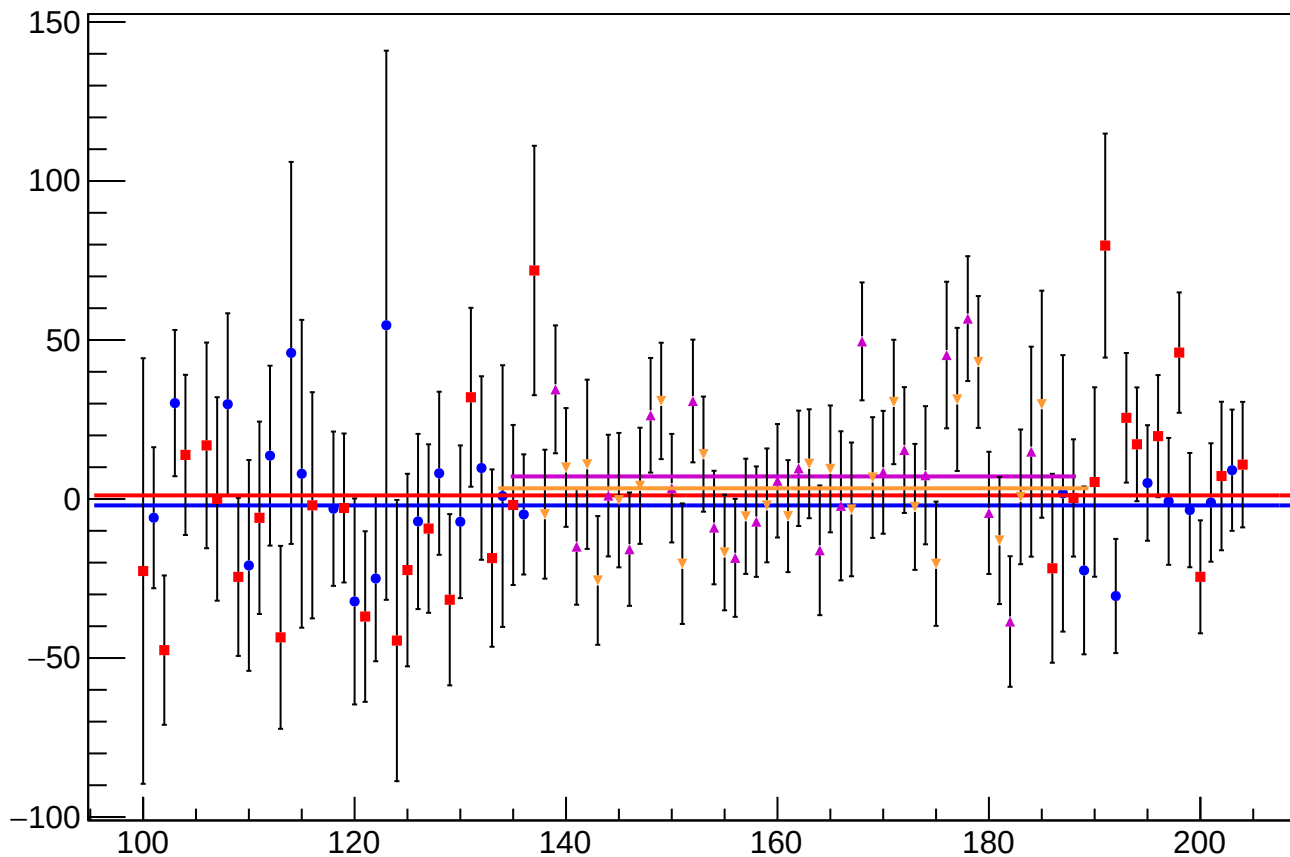
Right: 173.751 $\pm$ 0.025 χ^2 /NDF: 4802976.7/54

In: 177.644 $\pm$ 0.024 χ^2 /NDF:3668698.8/47

Out: 186.504 $\pm$ 0.024 χ^2 /NDF:4774709.9/54

All: 182.056 $\pm$ 0.017 χ^2 /NDF: 8509984.2/102

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.012 ± 4.952 $\chi^2/\text{NDF}: 10.7/24$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.140 ± 4.599 $\chi^2/\text{NDF}: 35.6/29$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

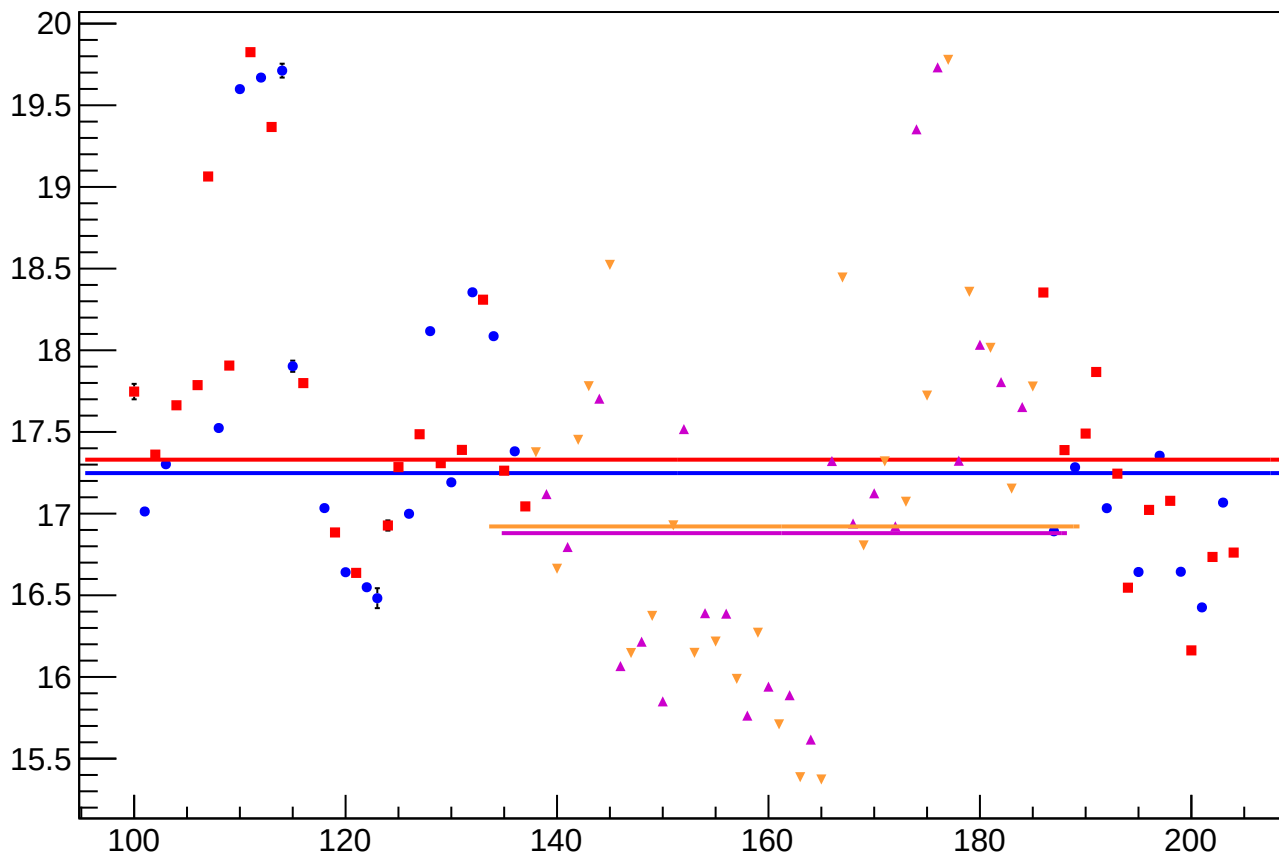
Right: -0.320 ± 3.370 $\chi^2/\text{NDF}: 46.5/54$

In: 3.450 ± 3.134 $\chi^2/\text{NDF}: 45.2/47$

Out: 2.425 ± 2.995 $\chi^2/\text{NDF}: 54.5/54$

All: 2.914 ± 2.165 $\chi^2/\text{NDF}: 99.8/102$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.248 $\pm$ 0.004 χ^2 /NDF: 46713.8/24

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.330 $\pm$ 0.003 χ^2 /NDF: 55914.7/29

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

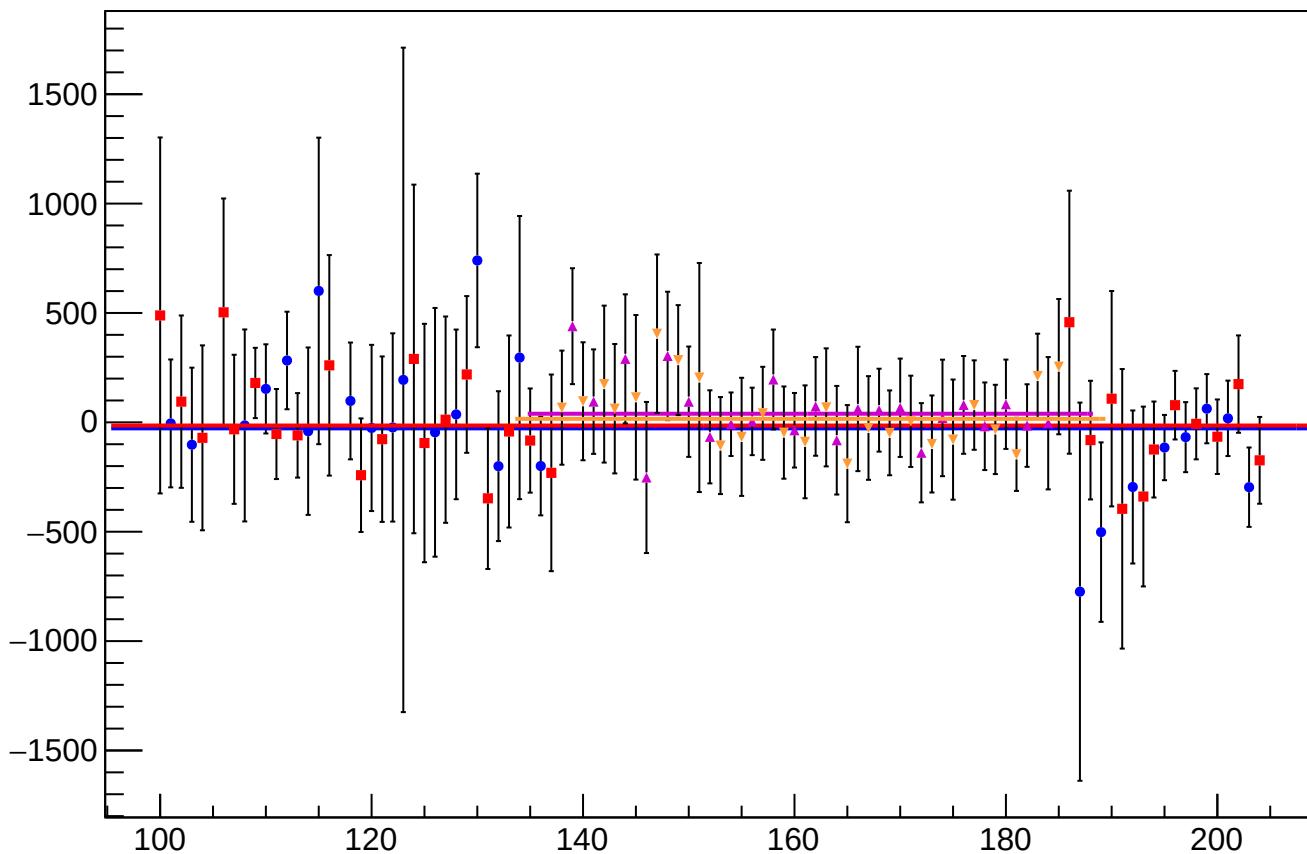
Right: 17.292 $\pm$ 0.002 χ^2 /NDF: 102924.5/54

In: 17.028 $\pm$ 0.002 χ^2 /NDF:175058.7/47

Out: 17.095 $\pm$ 0.002 χ^2 /NDF:204006.3/54

All: 17.063 $\pm$ 0.002 χ^2 /NDF: 379545.3/102

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.489 ± 53.087 $\chi^2/\text{NDF}: 14.3/24$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -14.531 ± 49.769 $\chi^2/\text{NDF}: 9.9/29$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

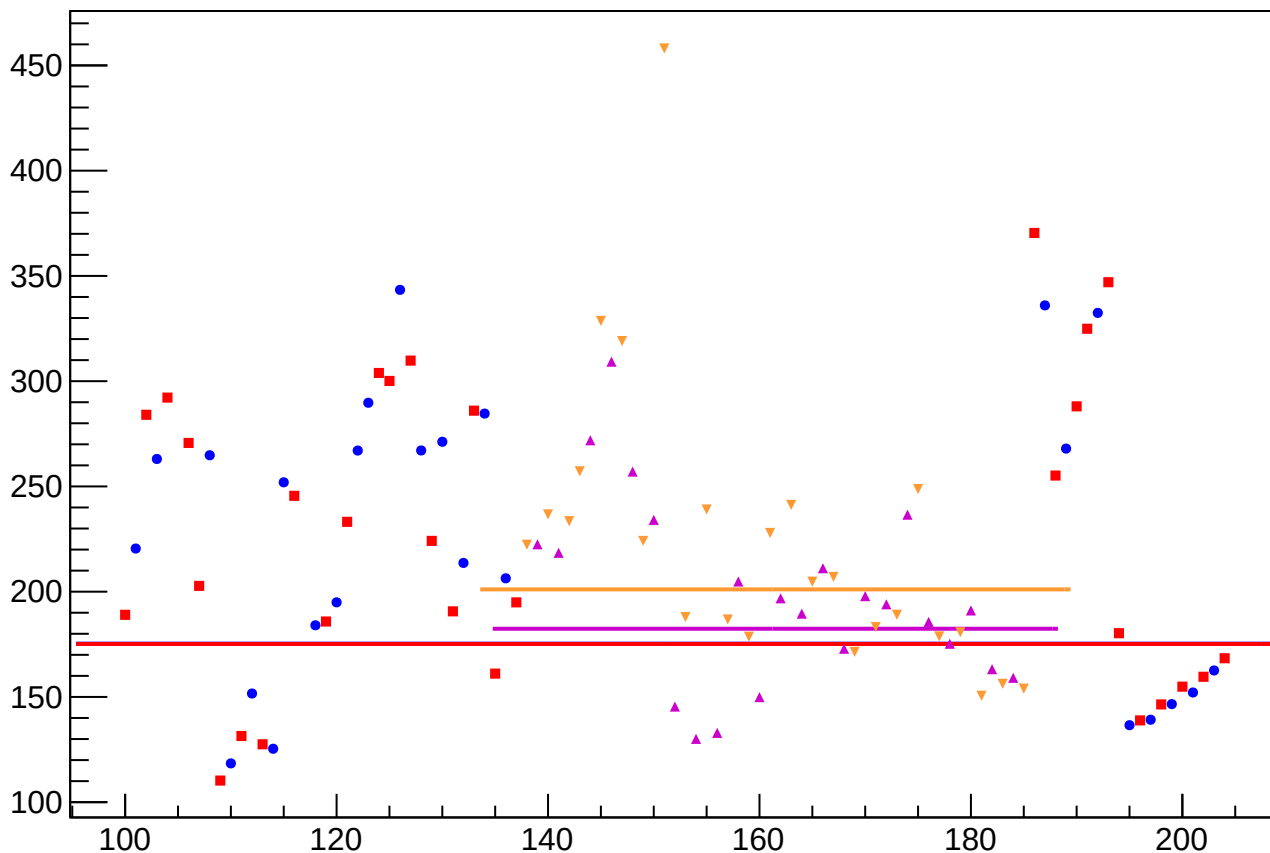
Right: -20.592 ± 36.308 $\chi^2/\text{NDF}: 24.2/54$

In: 11.009 ± 34.578 $\chi^2/\text{NDF}: 22.1/47$

Out: 1.112 ± 34.736 $\chi^2/\text{NDF}: 17.4/54$

All: 6.083 ± 24.506 $\chi^2/\text{NDF}: 39.6/102$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.298 $\pm$ 0.038 χ^2 /NDF: 2048082.8/24

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 175.163 $\pm$ 0.035 χ^2 /NDF: 2676490.1/29

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

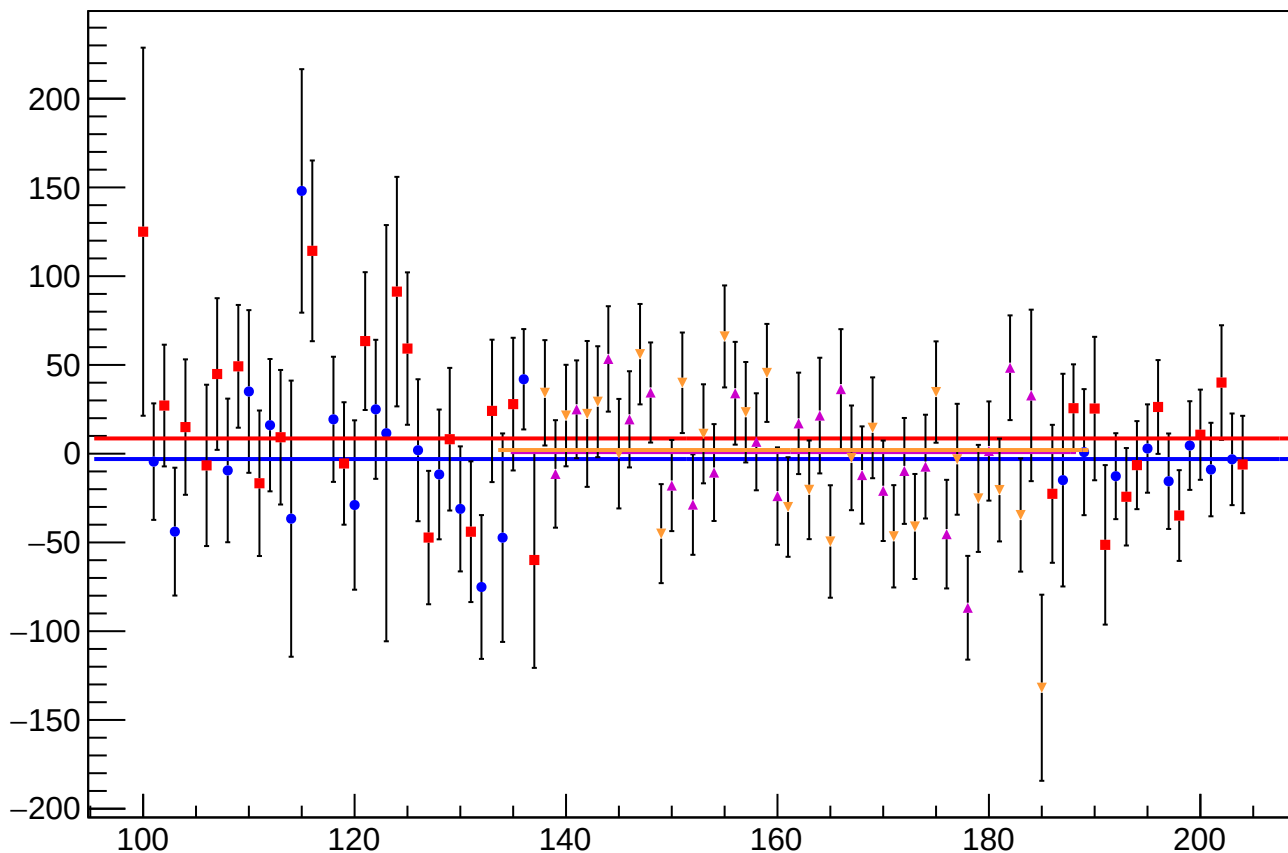
Right: 175.226 $\pm$ 0.026 χ^2 /NDF: 4724579.8/54

In: 179.384 $\pm$ 0.024 χ^2 /NDF:3617578.5/47

Out: 188.461 $\pm$ 0.025 χ^2 /NDF:4685960.8/54

All: 183.902 $\pm$ 0.017 χ^2 /NDF: 8372126.8/102

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.017 ± 6.983 χ^2/NDF : 16.1/24

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 8.585 ± 6.429 χ^2/NDF : 28.8/29

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

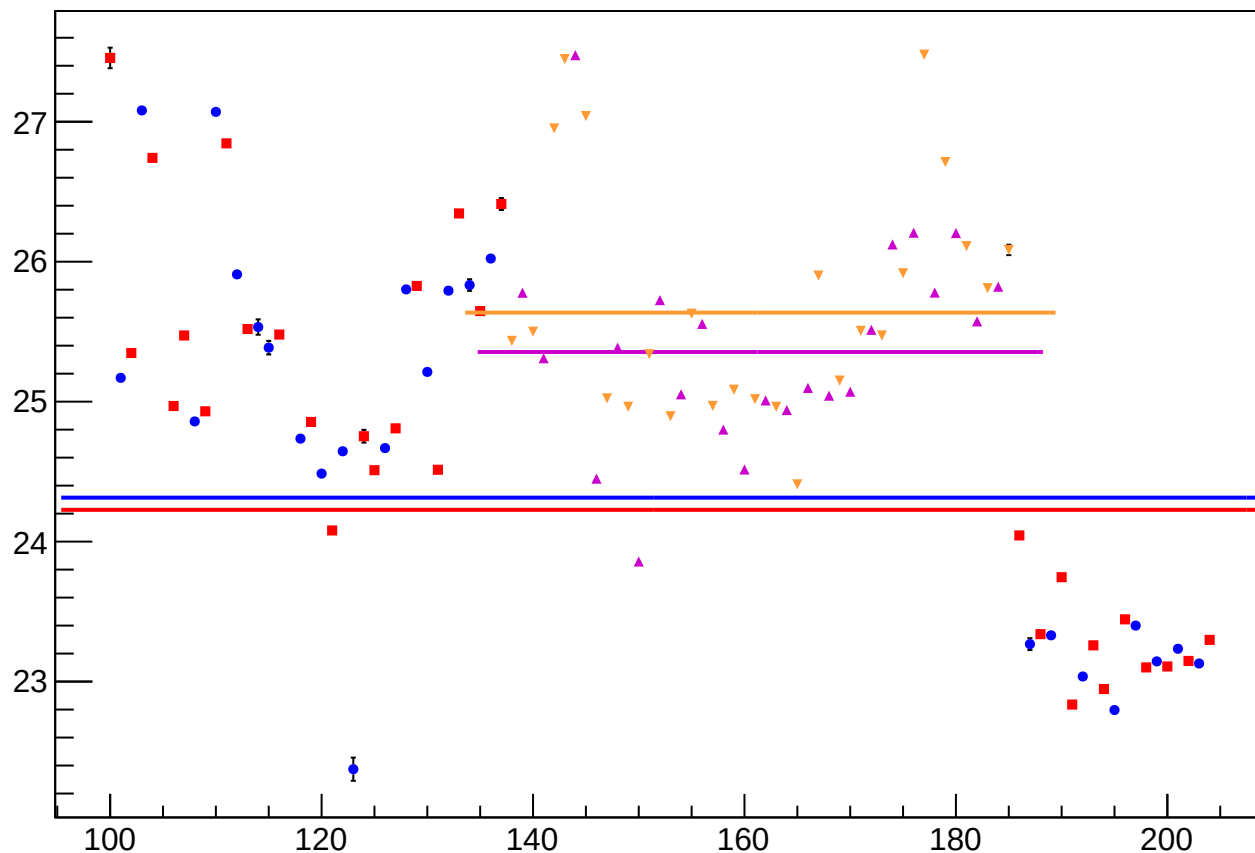
Right: 3.263 ± 4.730 χ^2/NDF : 46.4/54

In: -0.785 ± 4.581 χ^2/NDF : 43.4/47

Out: 5.078 ± 4.375 χ^2/NDF : 68.8/54

All: 2.281 ± 3.164 χ^2/NDF : 113.0/102

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.314 ± 0.005 $\chi^2/\text{NDF}: 71915.6/24$

Left Out: 25.636 ± 0.004 $\chi^2/\text{NDF}: 35130.7/24$

Right Out: 24.227 ± 0.005 $\chi^2/\text{NDF}: 69931.5/29$

Left In: 25.355 ± 0.004 $\chi^2/\text{NDF}: 29766.2/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 67081.3/47$

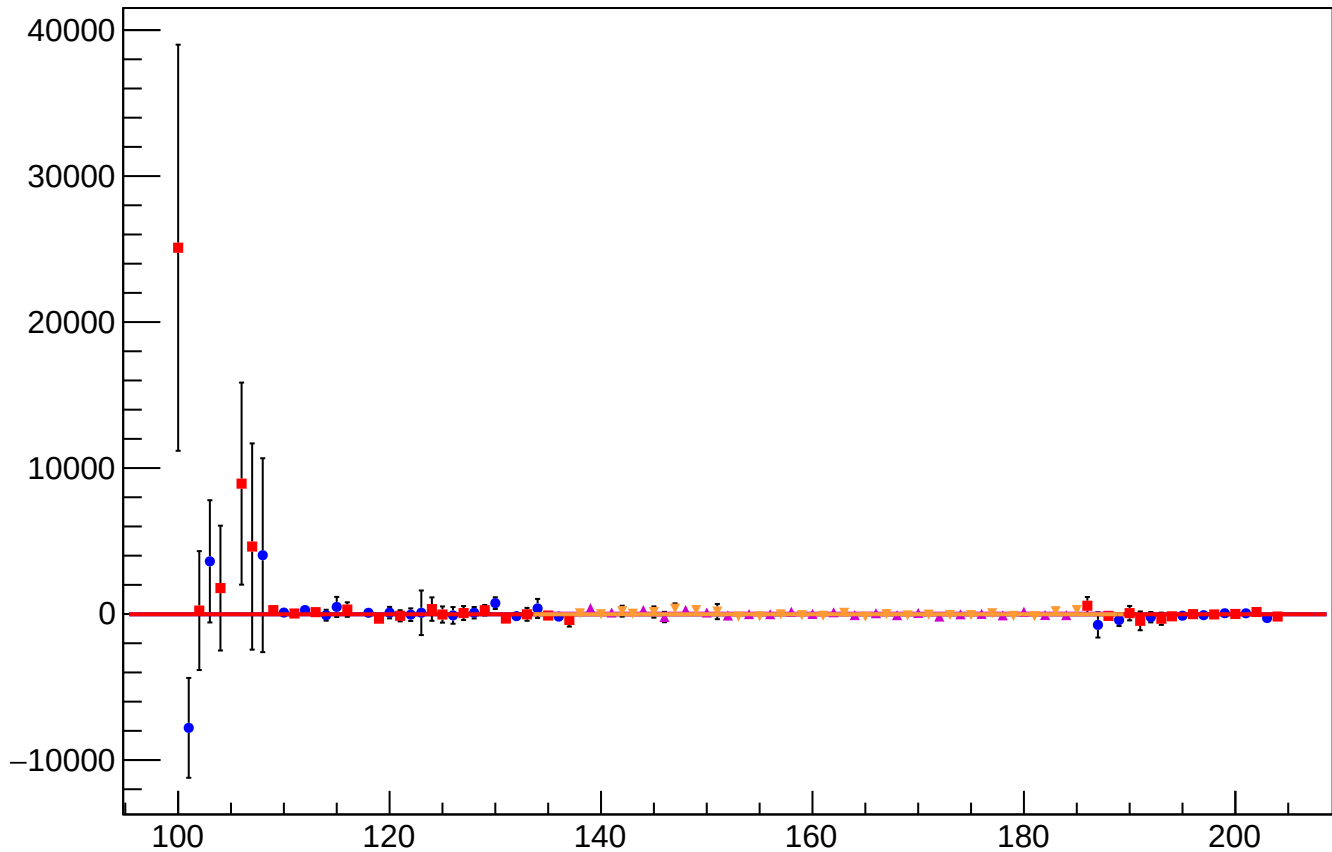
Right: 24.267 ± 0.003 $\chi^2/\text{NDF}: 142015.8/54$

In: 24.907 ± 0.003 $\chi^2/\text{NDF}: 126975.8/47$

Out: 24.984 ± 0.003 $\chi^2/\text{NDF}: 156650.9/54$

All: 24.947 ± 0.002 $\chi^2/\text{NDF}: 283919.4/102$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -17.257 ± 56.081 χ^2/NDF : 18.6/24

Left Out: -12.820 ± 48.216 χ^2/NDF : 7.9/24

Right Out: -14.898 ± 53.430 χ^2/NDF : 15.8/29

Left In: 26.836 ± 45.876 χ^2/NDF : 7.5/22

Left: 7.994 ± 33.236 χ^2/NDF : 15.7/47

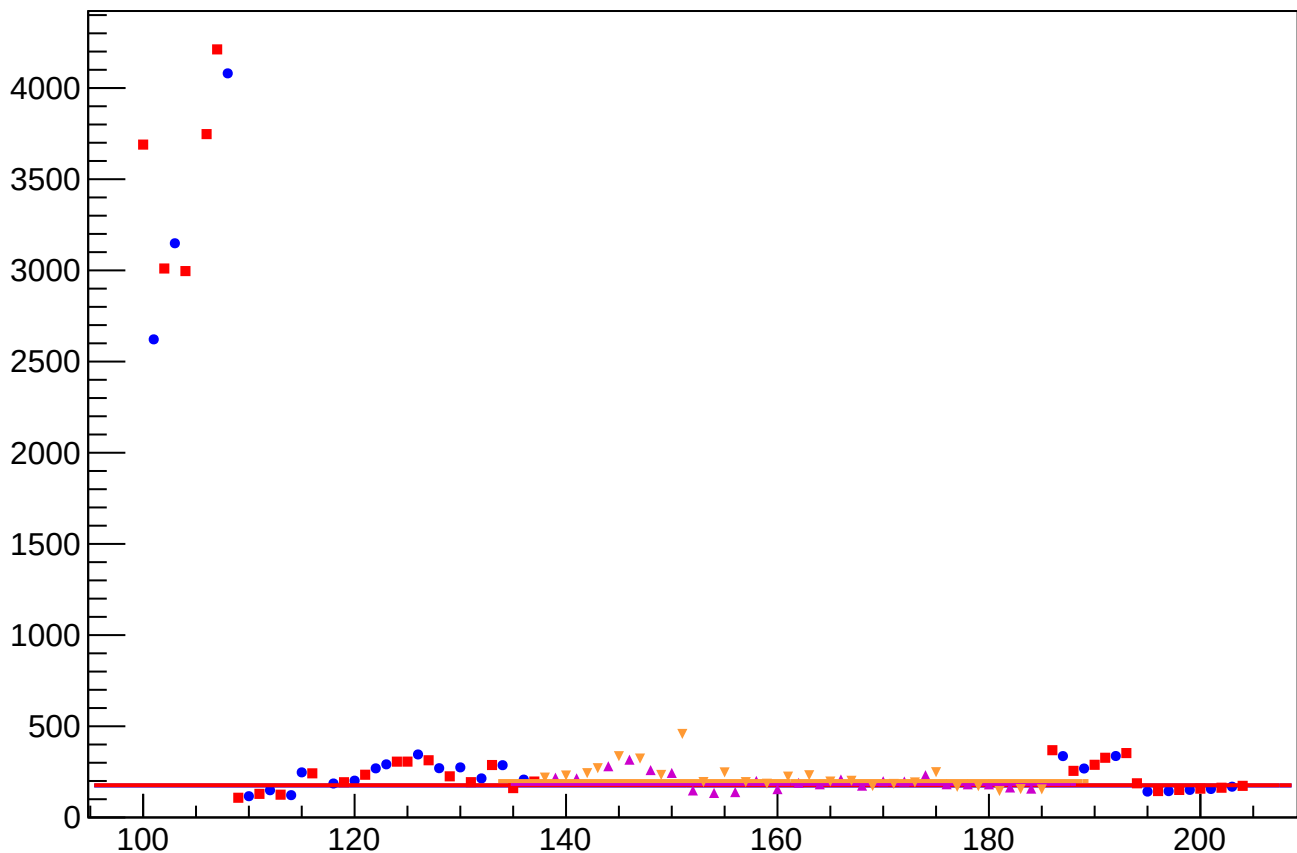
Right: -16.021 ± 38.684 χ^2/NDF : 34.4/54

In: 9.159 ± 35.509 χ^2/NDF : 26.5/47

Out: -13.753 ± 35.796 χ^2/NDF : 23.6/54

All: -2.204 ± 25.209 χ^2/NDF : 50.3/102

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.008+/-0.040 χ^2/NDF : 4465293.9/24

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 176.715+/-0.038 χ^2/NDF : 5308110.0/29

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

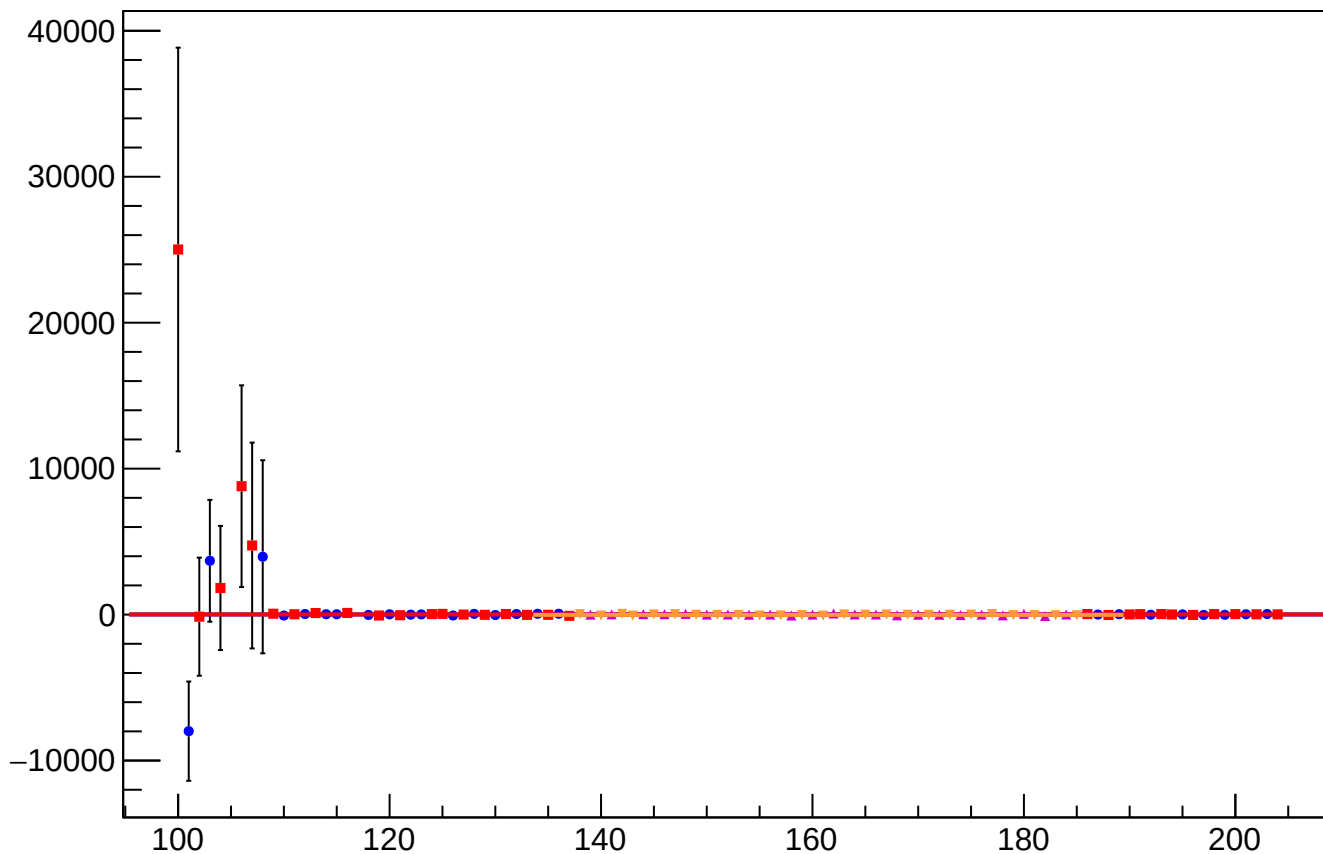
Right: 175.902+/-0.027 χ^2/NDF : 9774375.4/54

In: 180.414+/-0.025 χ^2/NDF :5919770.7/47

Out: 189.293+/-0.025 χ^2/NDF :7389752.2/54

All: 184.817+/-0.018 χ^2/NDF : 13371541.5/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.115+/-8.484 χ^2/NDF : 22.3/24

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 13.202+/-7.913 χ^2/NDF : 29.1/29

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

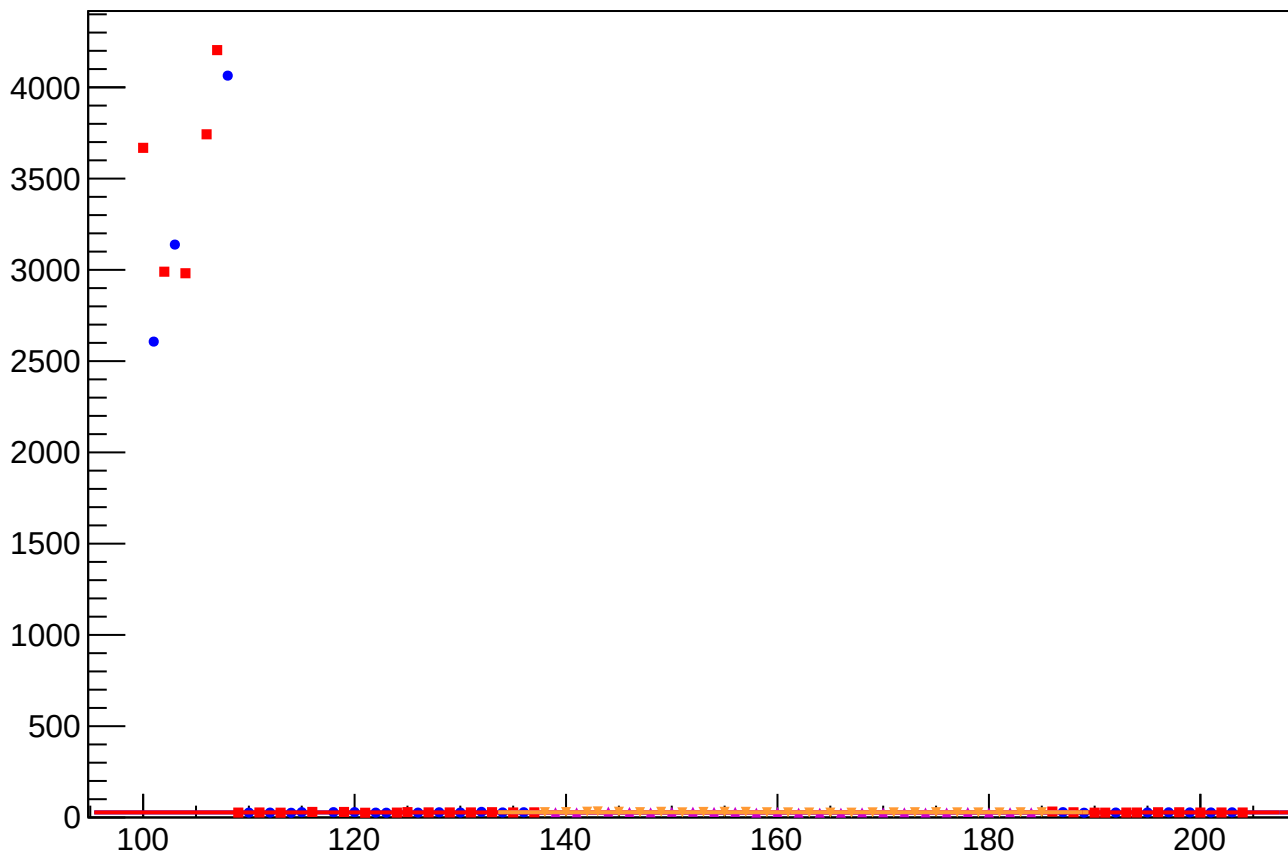
Right: 11.301+/-5.787 χ^2/NDF : 51.5/54

In: 4.242+/-5.344 χ^2/NDF :55.3/47

Out: -4.741+/-5.110 χ^2/NDF :60.2/54

All: -0.450+/-3.693 χ^2/NDF : 117.0/102

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.670 $\pm$ 0.006 χ^2 /NDF: 3035443.5/24

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.615 $\pm$ 0.006 χ^2 /NDF: 3503126.1/29

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF:124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

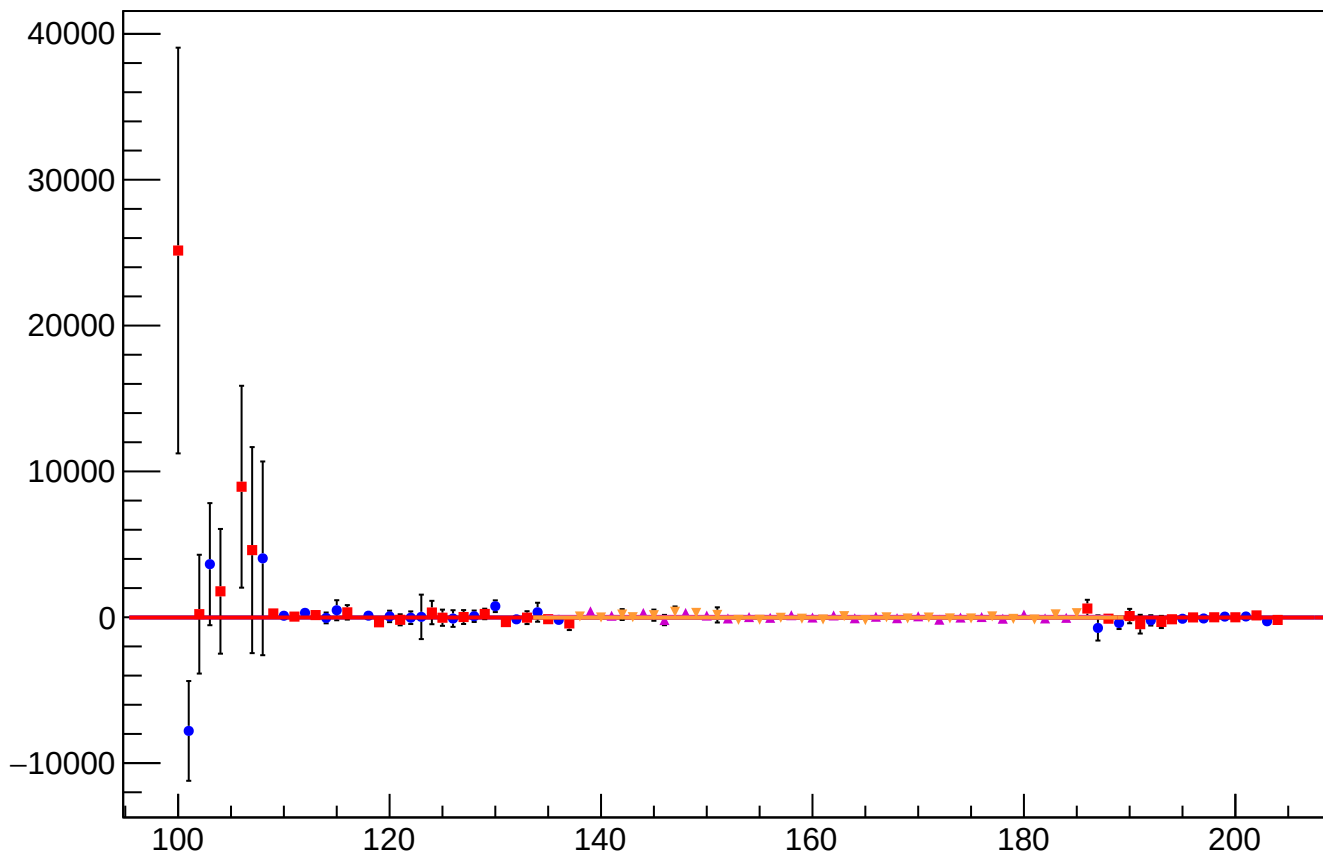
Right: 27.641 $\pm$ 0.004 χ^2 /NDF: 6538614.0/54

In: 28.275 $\pm$ 0.004 χ^2 /NDF:3177057.0/47

Out: 28.242 $\pm$ 0.004 χ^2 /NDF:3635151.7/54

All: 28.258 $\pm$ 0.003 χ^2 /NDF: 6812247.8/102

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -15.069+/-55.901 χ^2/NDF : 18.8/24

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -17.155+/-53.278 χ^2/NDF : 16.5/29

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

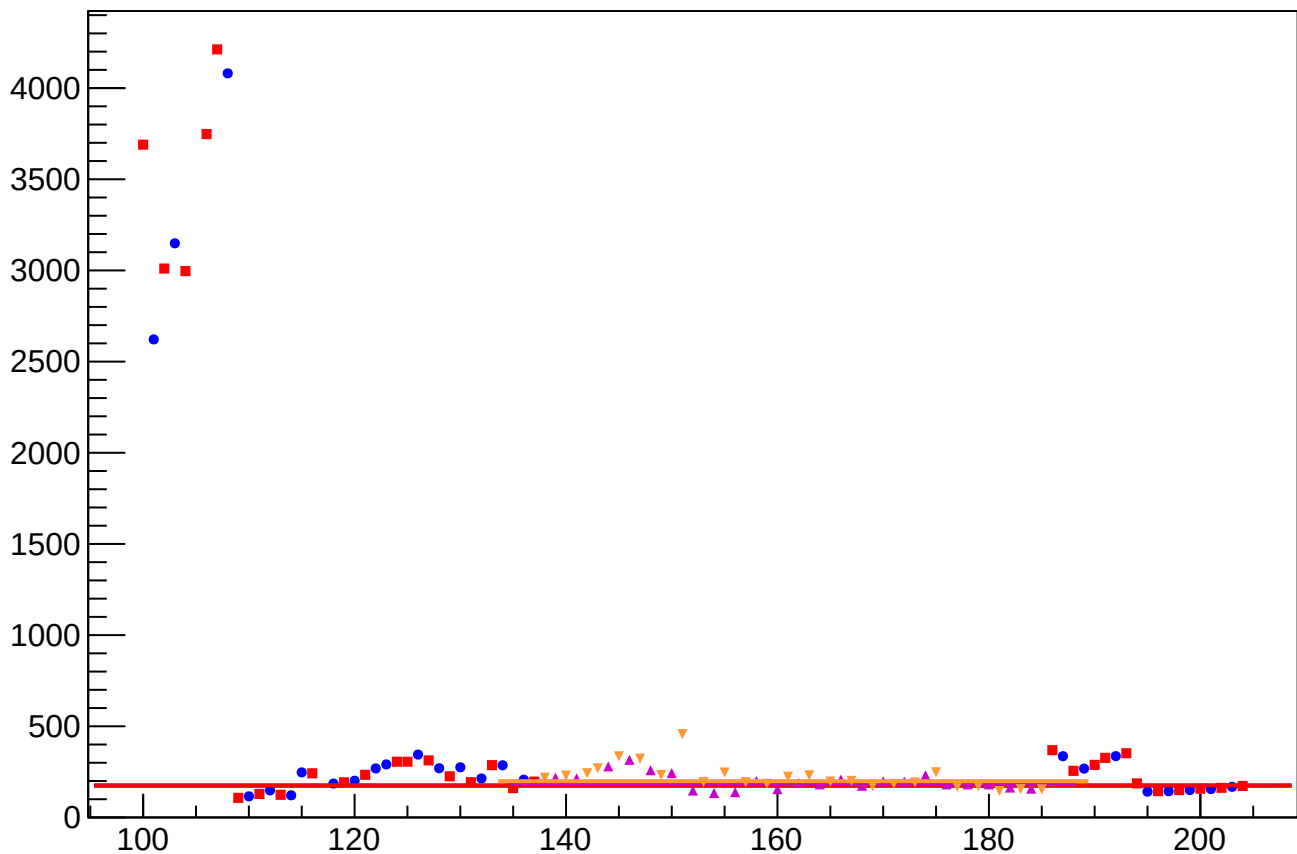
Right: -16.162+/-38.567 χ^2/NDF : 35.3/54

In: 10.116+/-35.421 χ^2/NDF : 27.0/47

Out: -16.234+/-35.706 χ^2/NDF : 25.2/54

All: -2.953+/-25.147 χ^2/NDF : 52.4/102

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.388 $\pm$ 0.040 χ^2 /NDF: 4478860.5/24

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 176.146 $\pm$ 0.038 χ^2 /NDF: 5325599.1/29

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

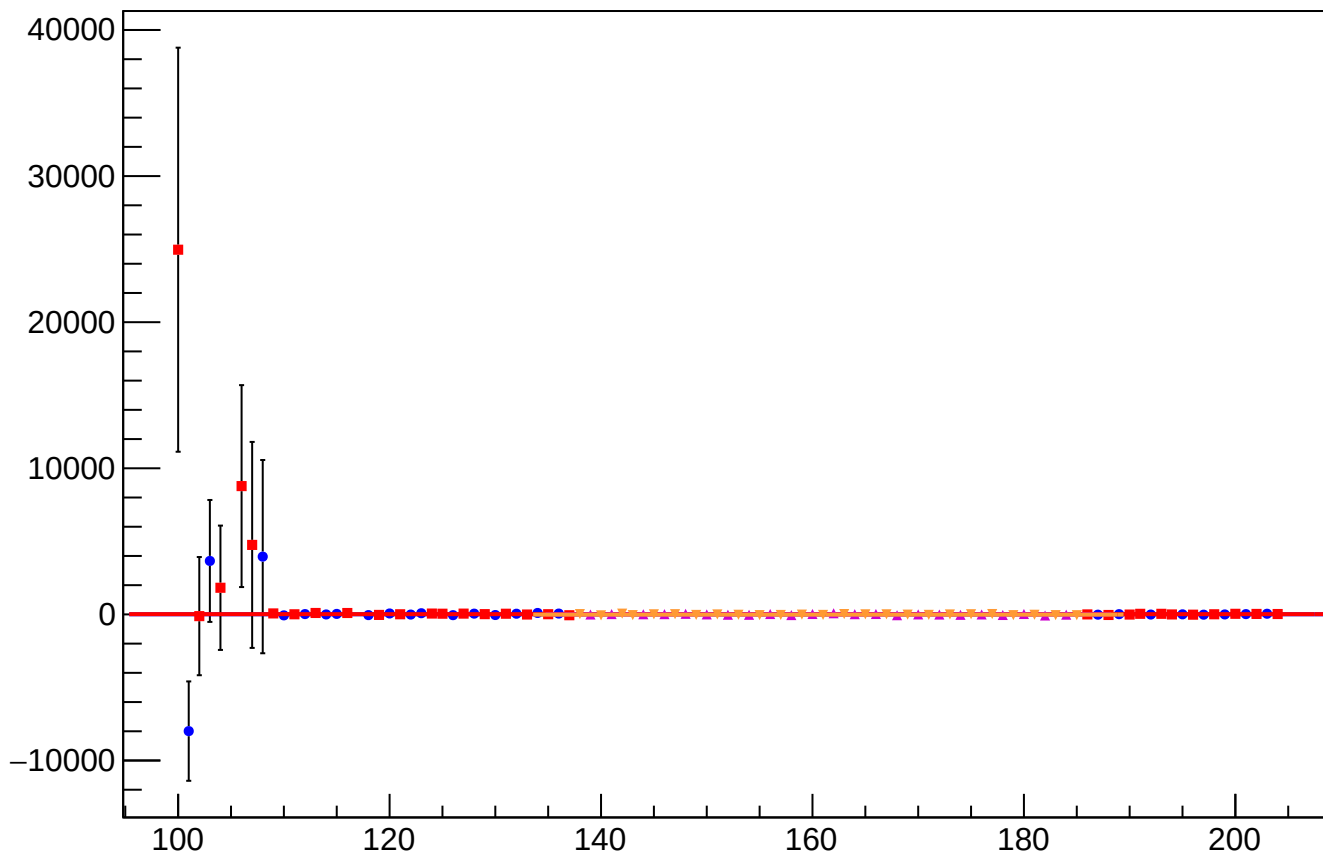
Right: 175.309 $\pm$ 0.027 χ^2 /NDF: 9805496.6/54

In: 179.942 $\pm$ 0.025 χ^2 /NDF:5934742.3/47

Out: 188.787 $\pm$ 0.025 χ^2 /NDF:7410329.1/54

All: 184.329 $\pm$ 0.018 χ^2 /NDF: 13406931.6/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.922 ± 8.476 χ^2/NDF : 25.8/24

Left Out: -15.006 ± 6.723 χ^2/NDF : 17.5/24

Right Out: 16.978 ± 7.909 χ^2/NDF : 24.8/29

Left In: -0.702 ± 6.909 χ^2/NDF : 26.4/22

Left: -8.049 ± 4.819 χ^2/NDF : 46.0/47

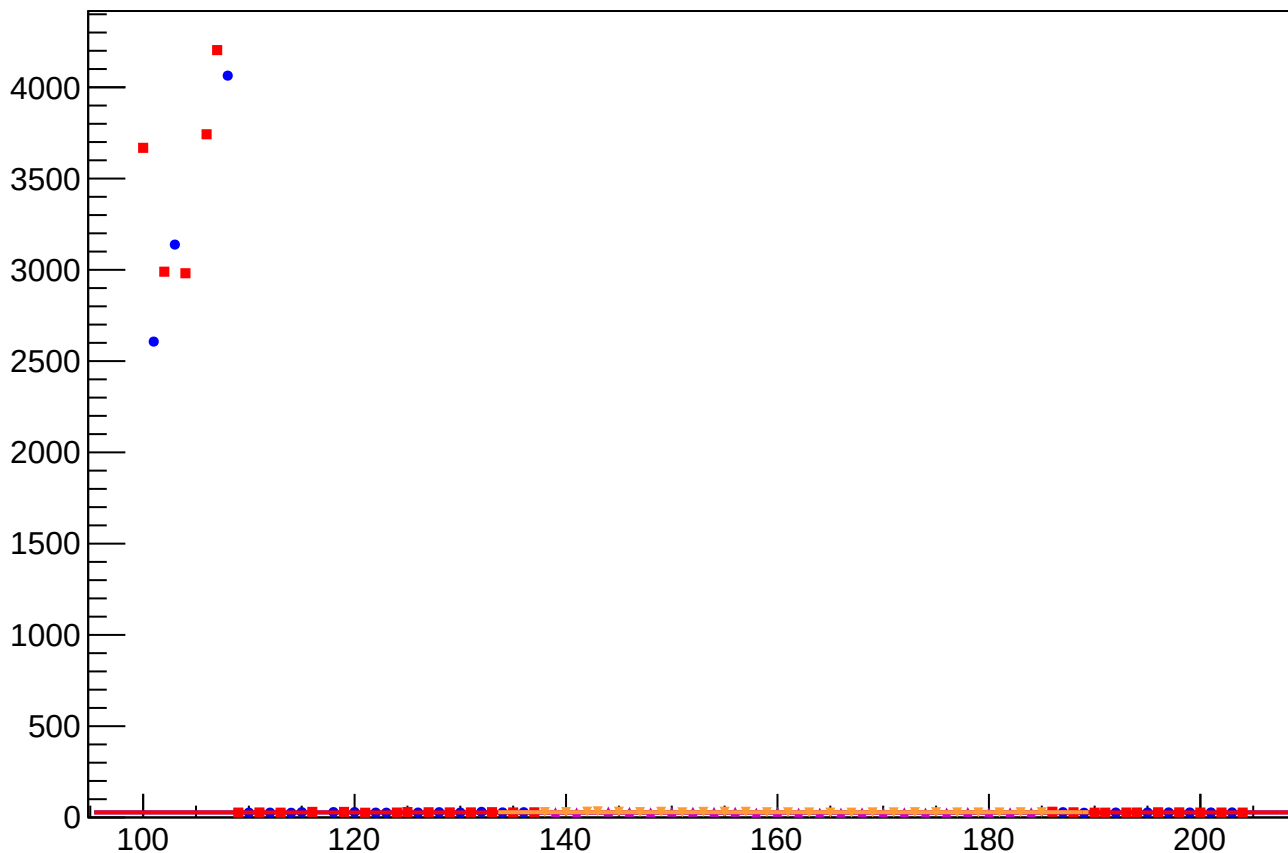
Right: 12.297 ± 5.783 χ^2/NDF : 51.4/54

In: 2.341 ± 5.355 χ^2/NDF : 52.7/47

Out: -1.589 ± 5.123 χ^2/NDF : 51.8/54

All: 0.289 ± 3.702 χ^2/NDF : 104.7/102

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.641 $\pm$ 0.006 χ^2 /NDF: 3037186.5/24

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.600 $\pm$ 0.006 χ^2 /NDF: 3502838.0/29

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

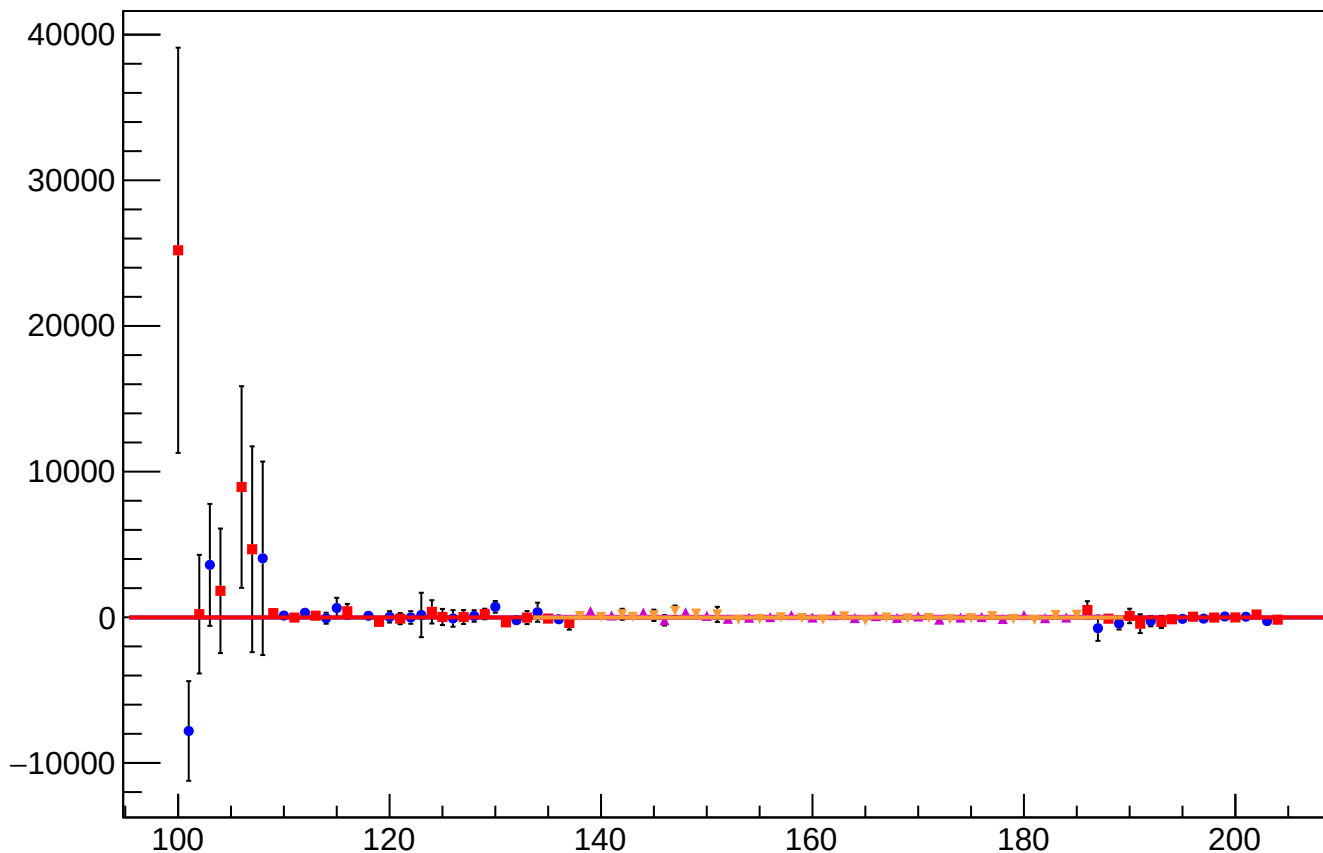
Right: 27.619 $\pm$ 0.004 χ^2 /NDF: 6540049.8/54

In: 28.333 $\pm$ 0.004 χ^2 /NDF: 3188737.4/47

Out: 28.304 $\pm$ 0.004 χ^2 /NDF: 3652098.2/54

All: 28.318 $\pm$ 0.003 χ^2 /NDF: 6840866.1/102

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -15.823+/-56.318 χ^2/NDF : 19.0/24

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -10.533+/-53.703 χ^2/NDF : 16.0/29

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

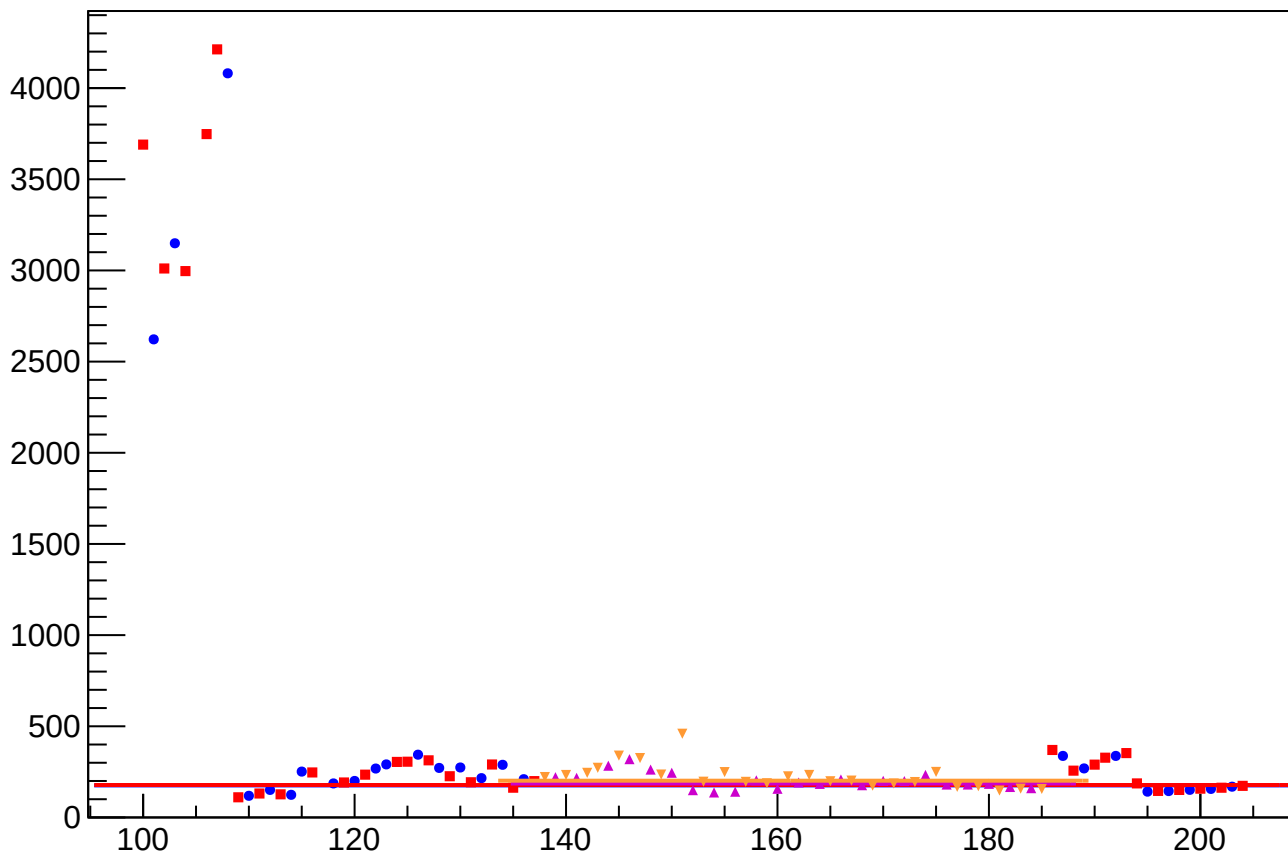
Right: -13.052+/-38.865 χ^2/NDF : 34.9/54

In: 12.189+/-35.792 χ^2/NDF : 27.5/47

Out: -13.285+/-36.071 χ^2/NDF : 24.0/54

All: -0.450+/-25.407 χ^2/NDF : 51.8/102

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.828 $\pm$ 0.040 χ^2 /NDF: 4445663.4/24

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 177.820 $\pm$ 0.038 χ^2 /NDF: 5263515.5/29

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

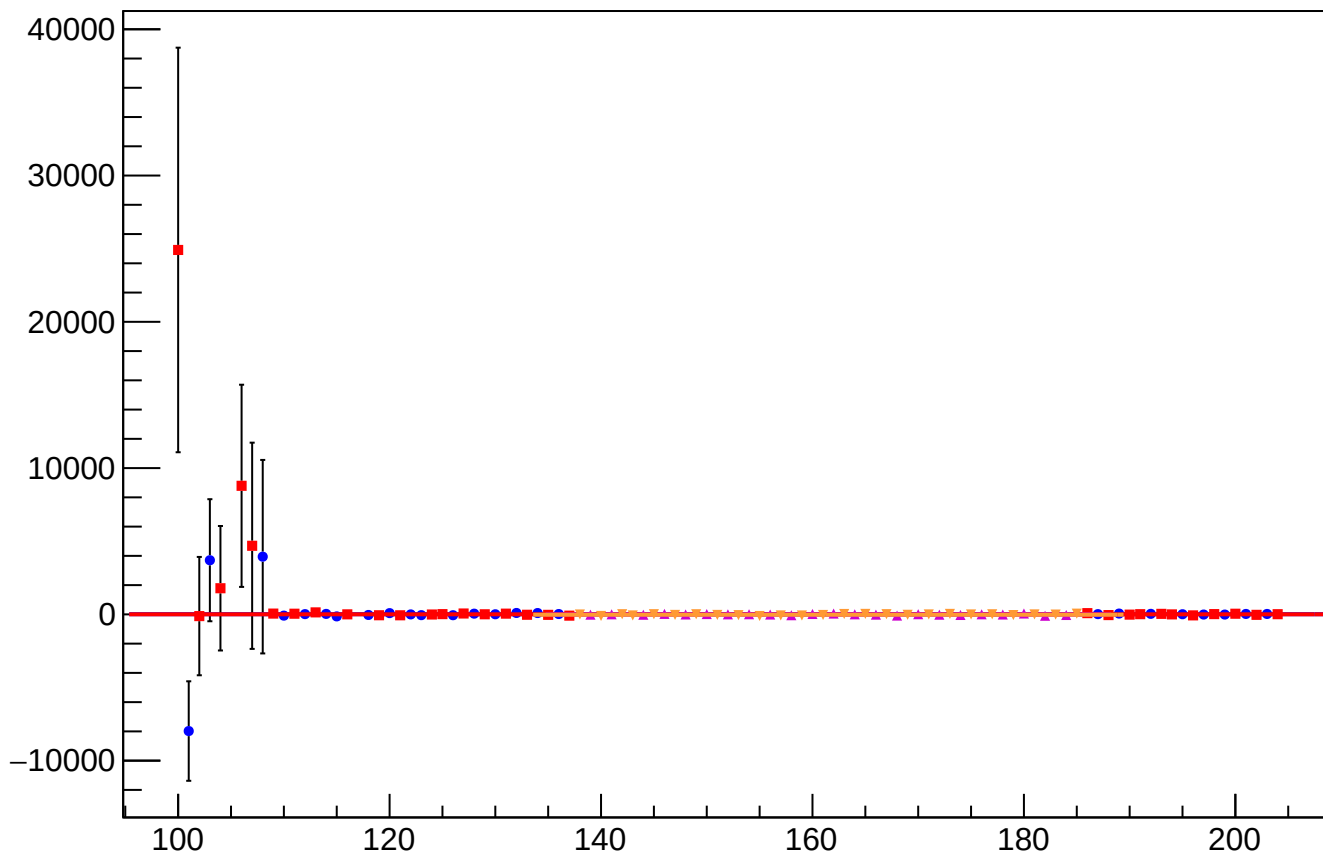
Right: 176.872 $\pm$ 0.027 χ^2 /NDF: 9710489.4/54

In: 181.955 $\pm$ 0.025 χ^2 /NDF:5876701.9/47

Out: 190.872 $\pm$ 0.026 χ^2 /NDF:7336204.2/54

All: 186.379 $\pm$ 0.018 χ^2 /NDF: 13274487.9/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.385+/-10.333 χ^2/NDF : 22.8/24

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 4.792+/-9.639 χ^2/NDF : 31.9/29

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

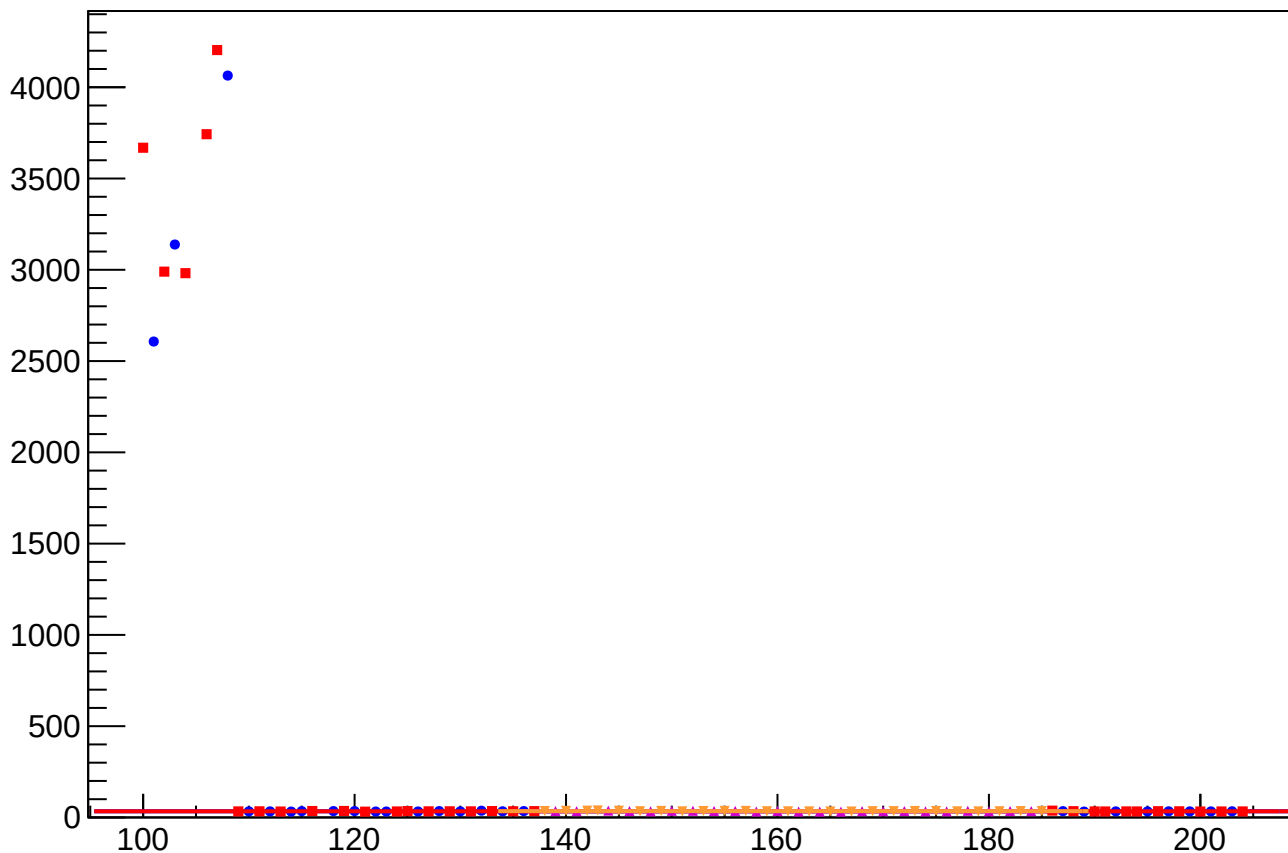
Right: 8.325+/-7.048 χ^2/NDF : 55.1/54

In: 1.219+/-6.475 χ^2/NDF : 45.9/47

Out: -11.768+/-6.185 χ^2/NDF : 62.8/54

All: -5.572+/-4.472 χ^2/NDF : 110.8/102

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.719 $\pm$ 0.007 χ^2 /NDF: 3012042.9/24

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.685 $\pm$ 0.007 χ^2 /NDF: 3466395.0/29

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

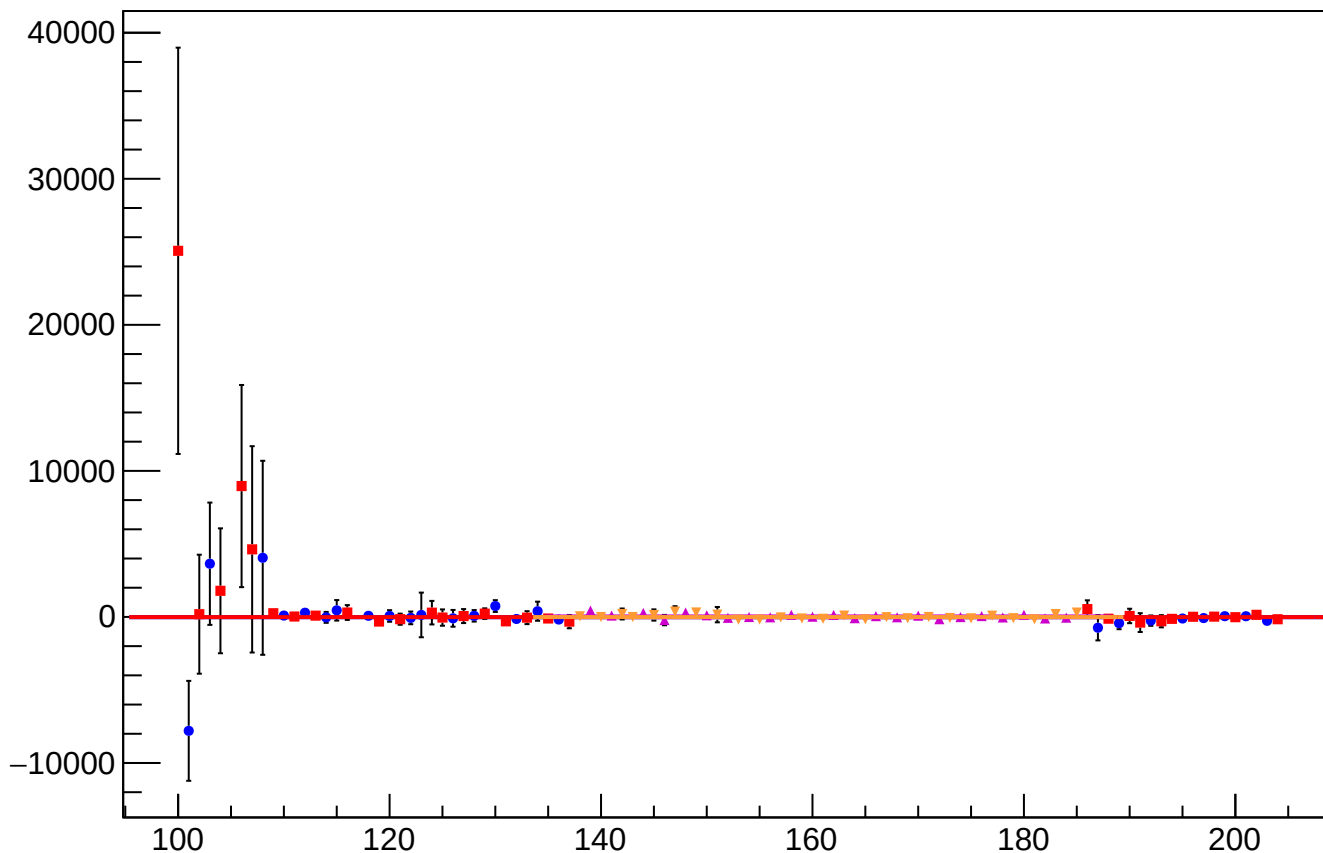
Right: 33.701 $\pm$ 0.005 χ^2 /NDF: 6478448.8/54

In: 34.305 $\pm$ 0.005 χ^2 /NDF: 3082985.7/47

Out: 34.232 $\pm$ 0.004 χ^2 /NDF: 3535267.0/54

All: 34.267 $\pm$ 0.003 χ^2 /NDF: 6618387.8/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -18.706 $\pm$ 56.145 χ^2 /NDF: 18.6/24

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: -13.361 $\pm$ 53.484 χ^2 /NDF: 14.3/29

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF:7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

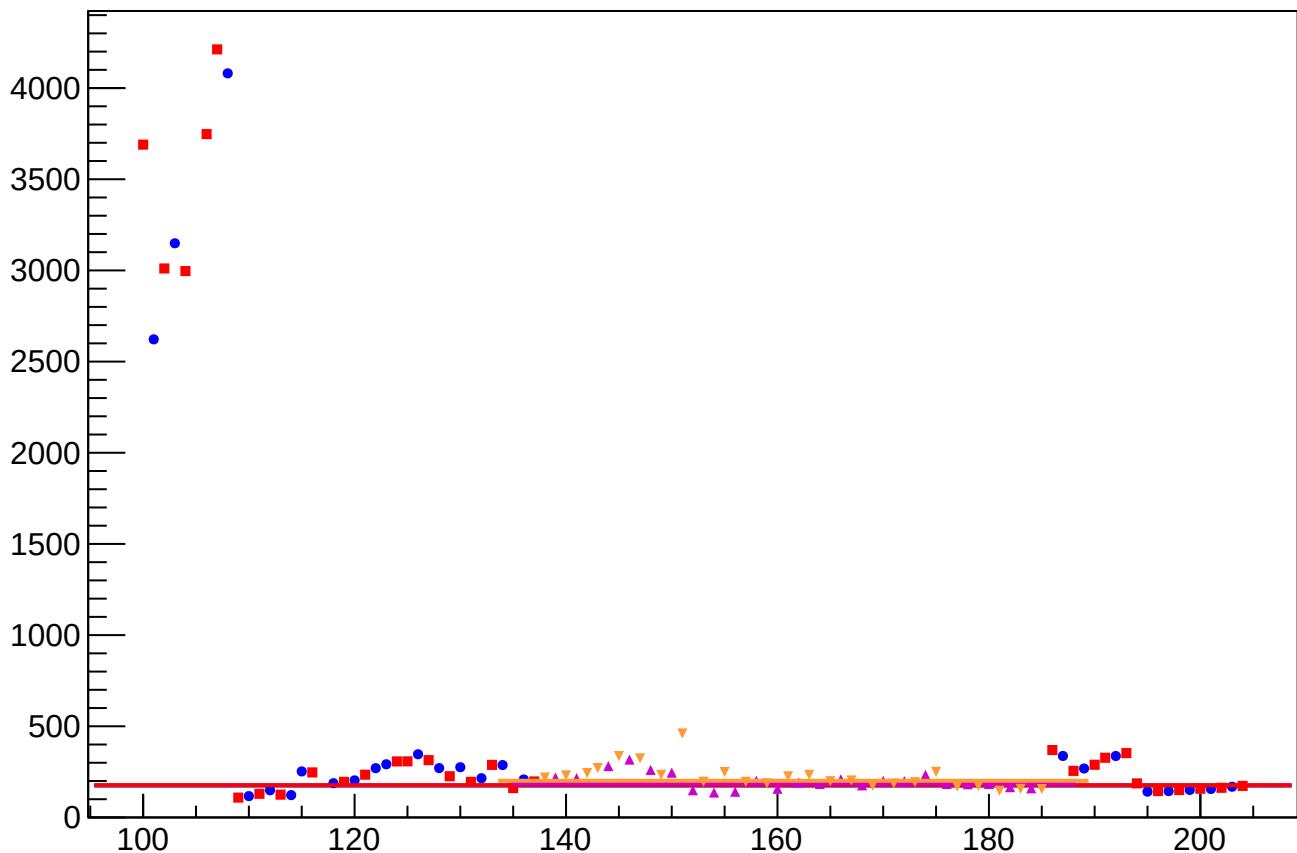
Right: -15.904 $\pm$ 38.726 χ^2 /NDF: 32.9/54

In: 12.744 $\pm$ 35.719 χ^2 /NDF:26.5/47

Out: -10.927 $\pm$ 35.975 χ^2 /NDF:22.9/54

All: 0.993 $\pm$ 25.347 χ^2 /NDF: 49.7/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.170+/-0.040 χ^2/NDF : 4475379.1/24

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 176.886+/-0.038 χ^2/NDF : 5313784.4/29

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

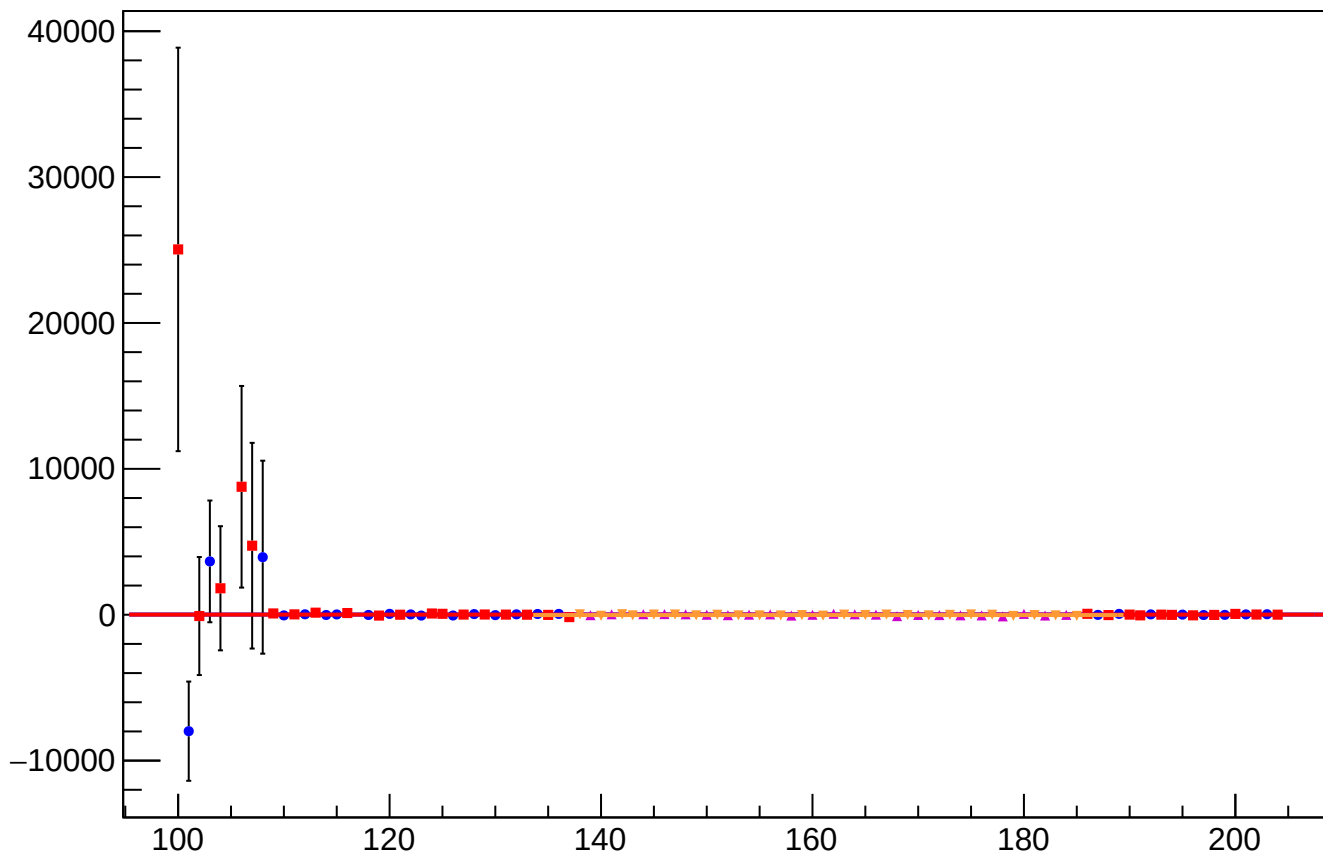
Right: 176.070+/-0.027 χ^2/NDF : 9790143.9/54

In: 181.529+/-0.025 χ^2/NDF :5900264.0/47

Out: 190.253+/-0.025 χ^2/NDF :7393039.2/54

All: 185.860+/-0.018 χ^2/NDF : 13352522.5/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 13.080+/-9.368 χ^2/NDF : 17.7/24

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 9.413+/-8.735 χ^2/NDF : 36.6/29

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

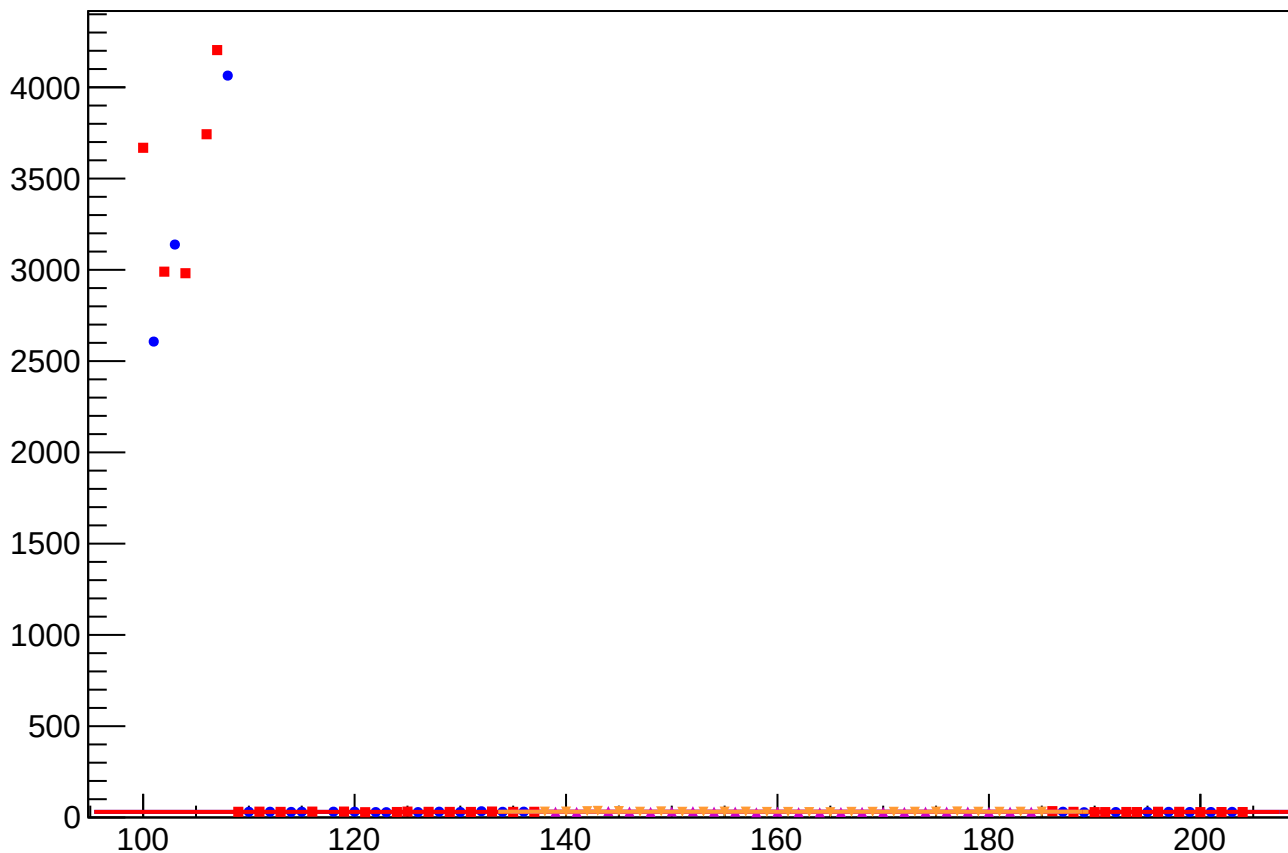
Right: 11.119+/-6.389 χ^2/NDF : 54.3/54

In: 1.547+/-5.878 χ^2/NDF : 58.5/47

Out: -9.513+/-5.619 χ^2/NDF : 63.3/54

All: -4.232+/-4.062 χ^2/NDF : 123.7/102

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.562 $\pm$ 0.007 χ^2 /NDF: 3025770.5/24

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.501 $\pm$ 0.006 χ^2 /NDF: 3482160.7/29

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

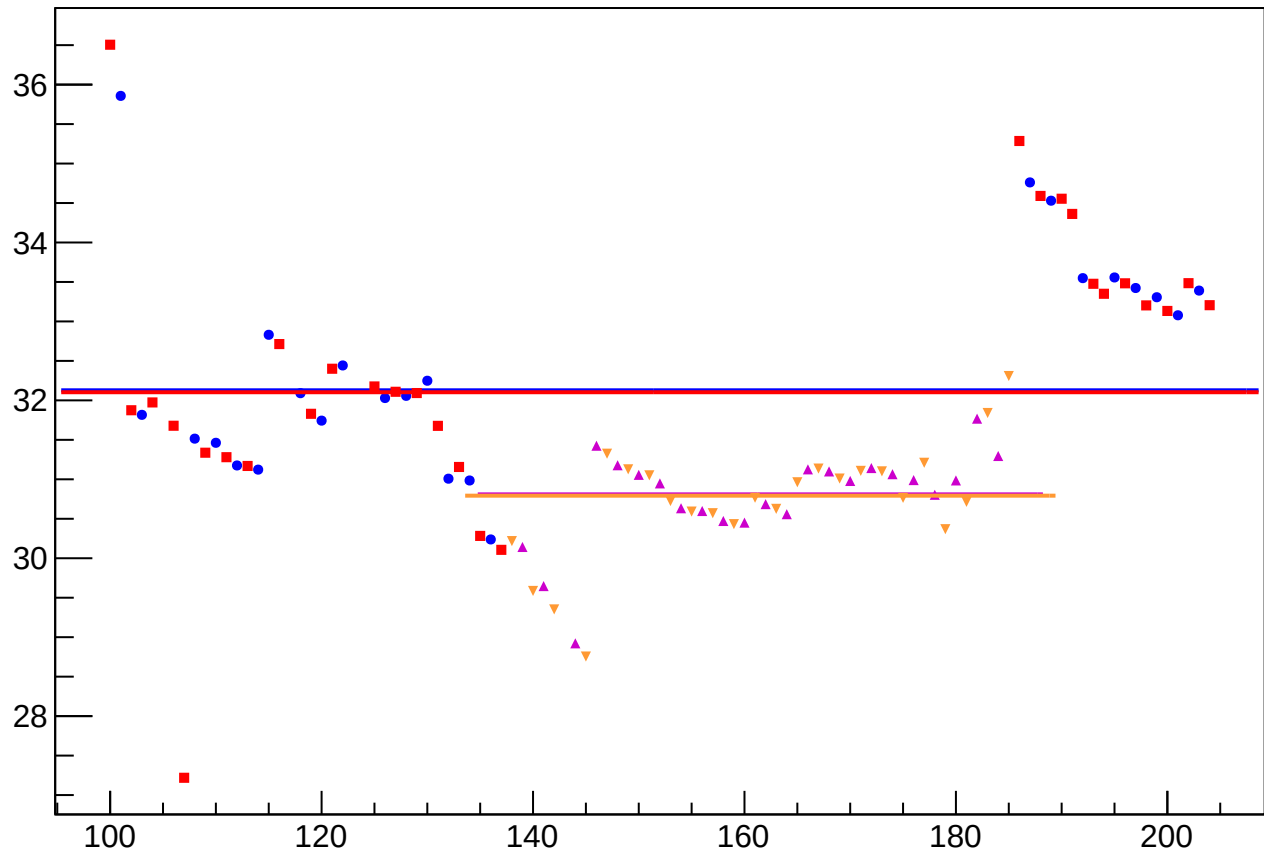
Right: 30.529 $\pm$ 0.005 χ^2 /NDF: 6507976.1/54

In: 31.121 $\pm$ 0.004 χ^2 /NDF:3125516.2/47

Out: 31.076 $\pm$ 0.004 χ^2 /NDF:3579377.1/54

All: 31.097 $\pm$ 0.003 χ^2 /NDF: 6704955.3/102

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.128+/-0.000 χ^2/NDF : 2225799765.4/23

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.103+/-0.000 χ^2/NDF : 2118101008.1/28

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

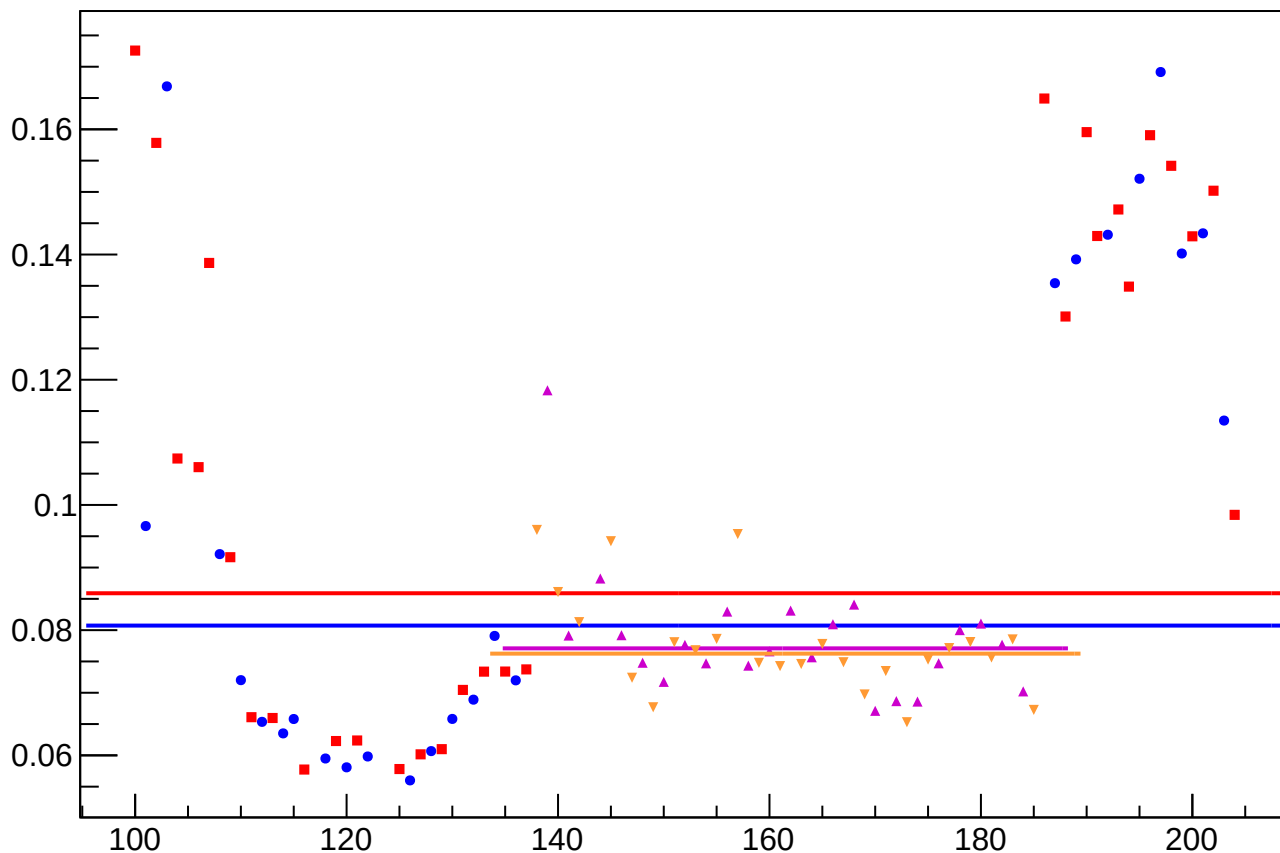
Right: 32.115+/-0.000 χ^2/NDF : 4344357570.0/52

In: 31.286+/-0.000 χ^2/NDF : 4724856632.7/46

Out: 31.264+/-0.000 χ^2/NDF : 4828349428.1/52

All: 31.275+/-0.000 χ^2/NDF : 9554308587.4/95

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.081+/-0.000 χ^2/NDF : 3023711.4/23

Left Out: 0.076+/-0.000 χ^2/NDF :277876.5/23

Right Out: 0.086+/-0.000 χ^2/NDF : 3550156.7/28

Left In: 0.077+/-0.000 χ^2/NDF :325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

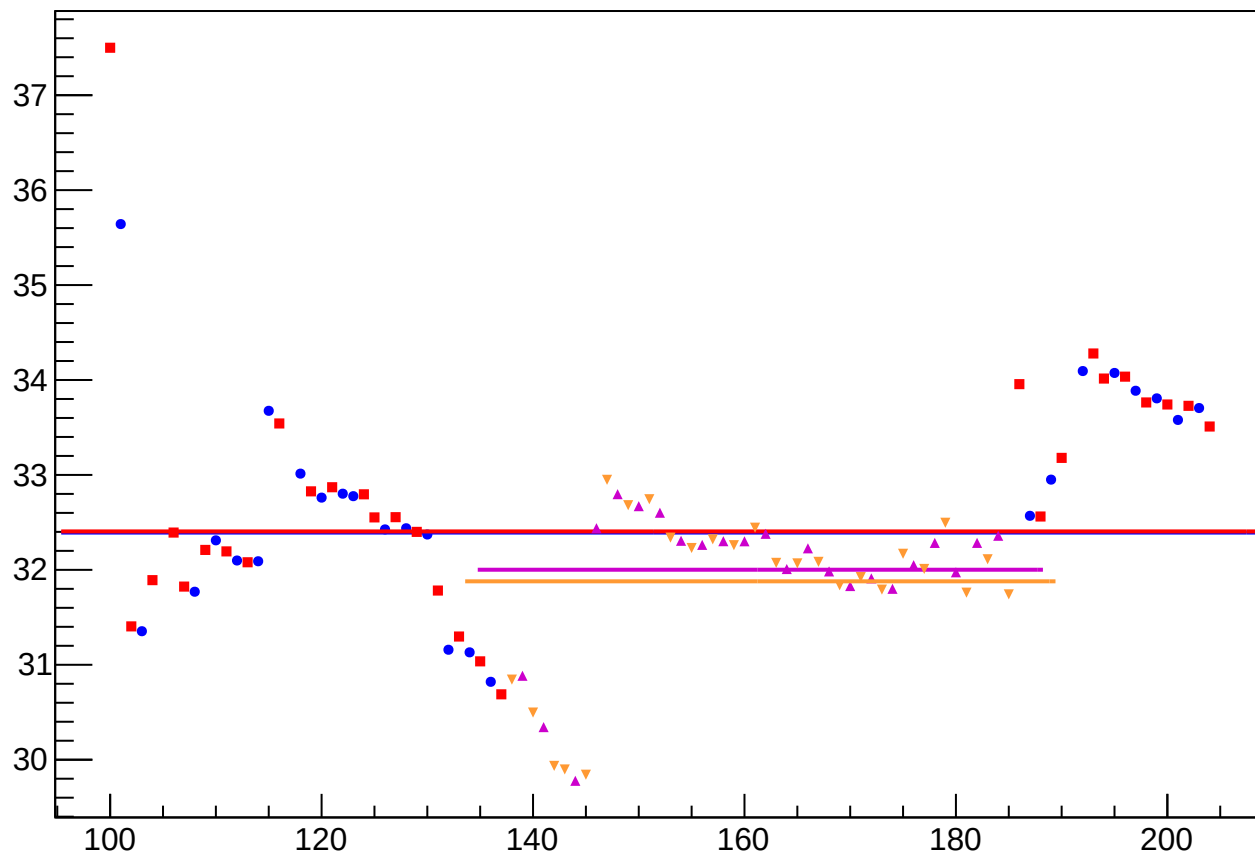
Right: 0.083+/-0.000 χ^2/NDF : 6614678.2/52

In: 0.078+/-0.000 χ^2/NDF :3375113.4/46

Out: 0.080+/-0.000 χ^2/NDF :4012574.1/52

All: 0.079+/-0.000 χ^2/NDF : 7394934.4/99

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.393+/-0.000 χ^2/NDF : 1255940083.2/24

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.405+/-0.000 χ^2/NDF : 775015602.2/28

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

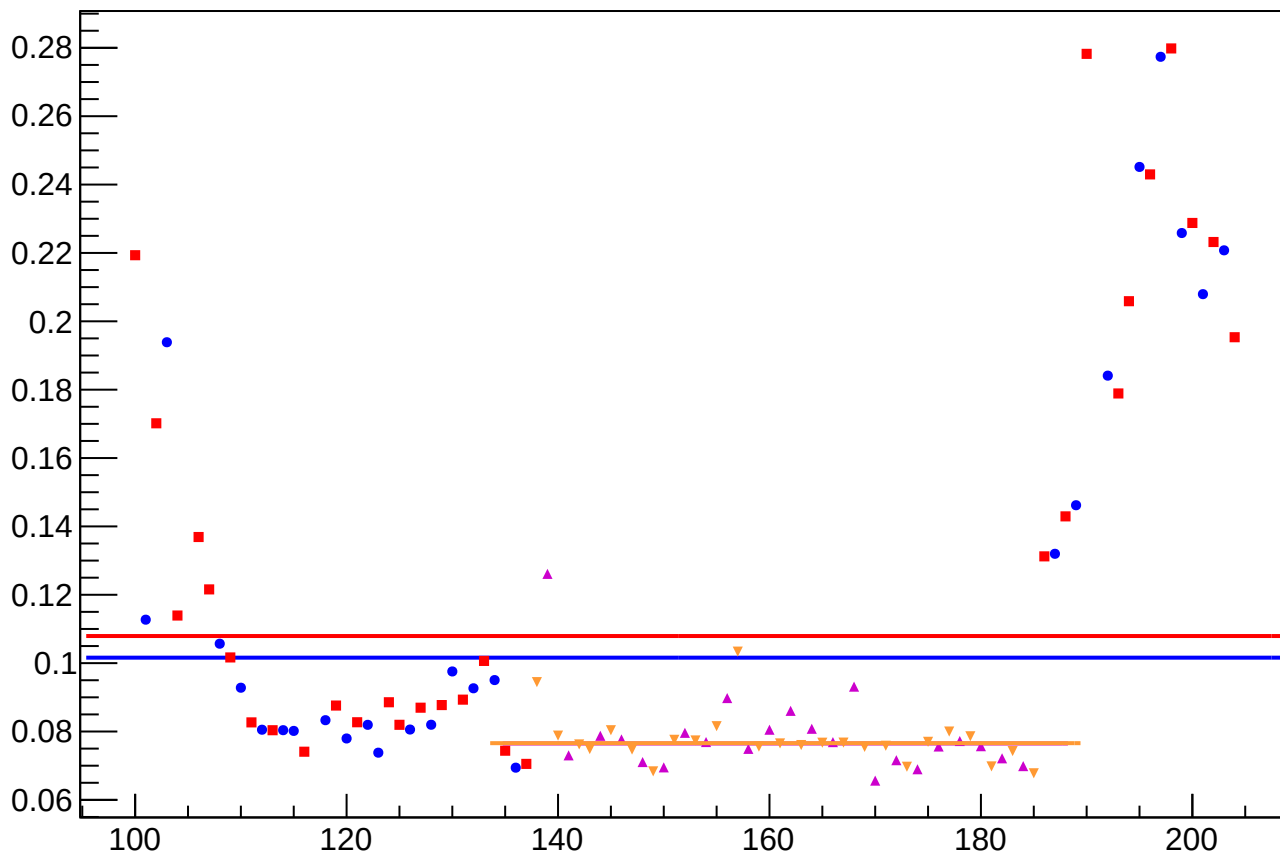
Right: 32.399+/-0.000 χ^2/NDF : 2031023281.7/53

In: 32.099+/-0.000 χ^2/NDF : 2771595920.8/47

Out: 32.008+/-0.000 χ^2/NDF : 2946583681.9/53

All: 32.052+/-0.000 χ^2/NDF : 5733388859.5/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.102 $\pm$ 0.000 χ^2 /NDF: 3832032.7/24

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.108 $\pm$ 0.000 χ^2 /NDF: 4056878.4/28

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

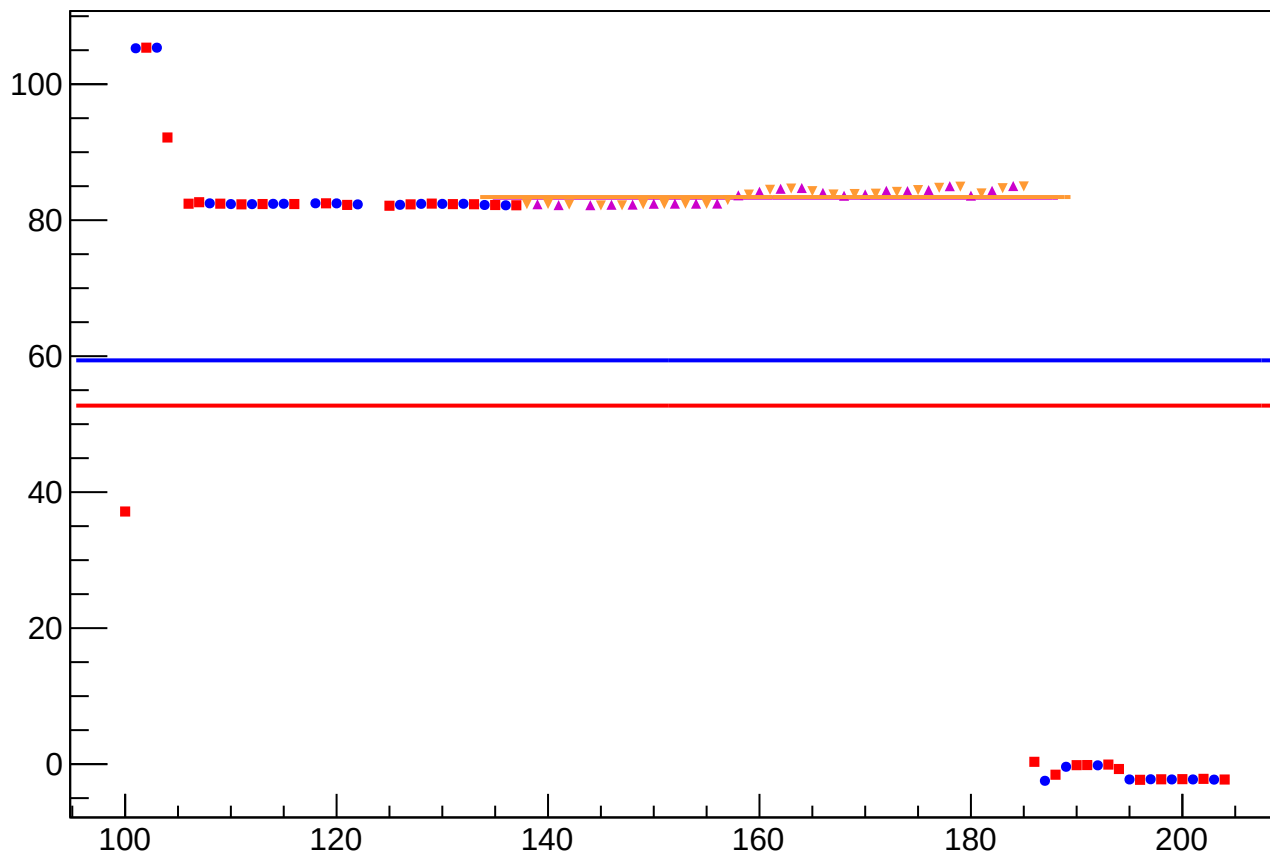
Right: 0.105 $\pm$ 0.000 χ^2 /NDF: 7925817.8/53

In: 0.083 $\pm$ 0.000 χ^2 /NDF:5124624.0/47

Out: 0.084 $\pm$ 0.000 χ^2 /NDF:5654635.1/53

All: 0.084 $\pm$ 0.000 χ^2 /NDF: 10788277.8/101

yield_dsl_mean vs Slug, Sign Corrected



Right In: 59.383+/-0.000 χ^2/NDF : 9261203658941.2/23

Left Out: 83.402+/-0.000 χ^2/NDF : 8756634444.3/23

Right Out: 52.728+/-0.000 χ^2/NDF : 10972487161792.2/28

Left In: 83.309+/-0.000 χ^2/NDF : 8421247810.9/22

Left: 83.355+/-0.000 χ^2/NDF : 17213898269.1/46

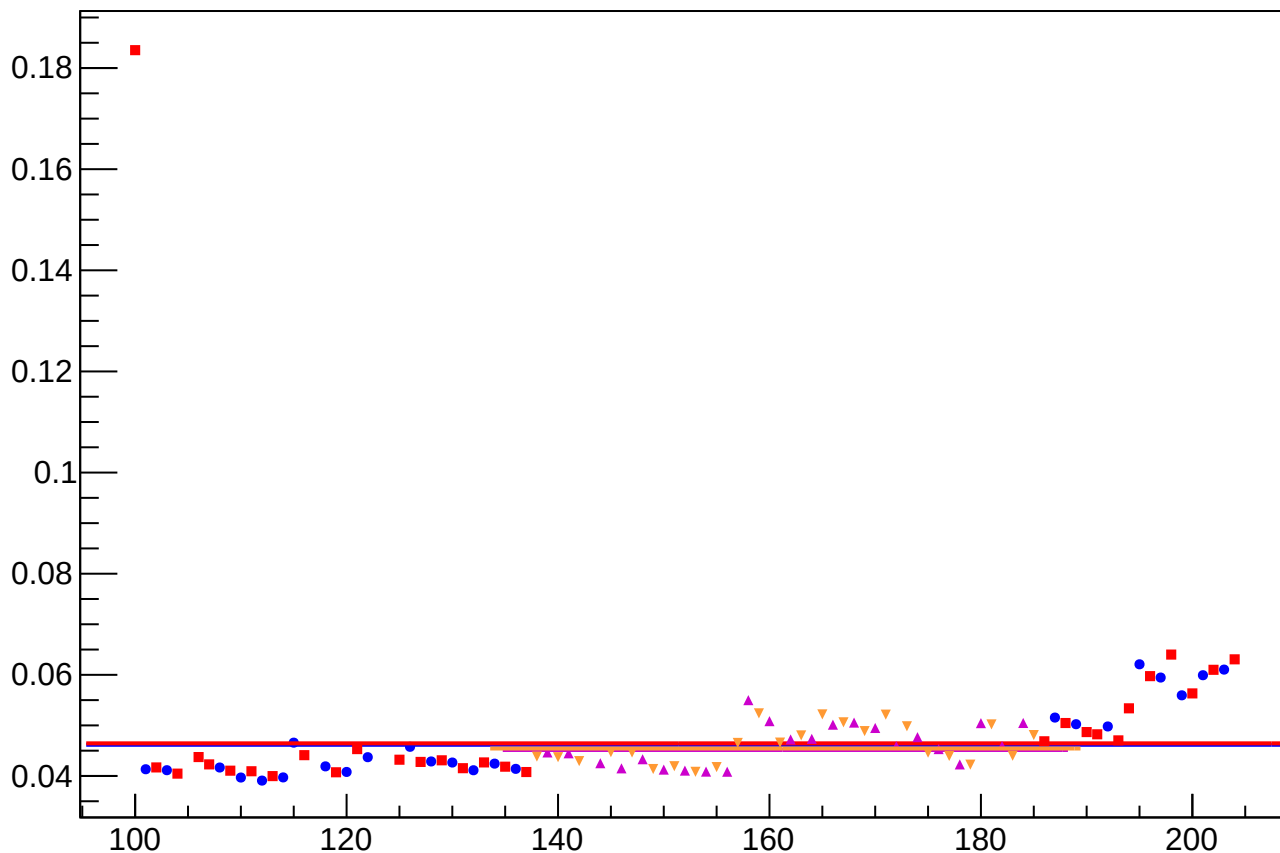
Right: 55.830+/-0.000 χ^2/NDF : 20362011946312.4/46

In: 73.862+/-0.000 χ^2/NDF : 11149880081545.4/46

Out: 70.256+/-0.000 χ^2/NDF : 14322816989952.7/52

All: 72.011+/-0.000 χ^2/NDF : 2556445194460.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.046+/-0.000 χ^2/NDF : 582807.9/23

Left Out: 0.045+/-0.000 χ^2/NDF : 206685.9/23

Right Out: 0.046+/-0.000 χ^2/NDF : 680316.3/28

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

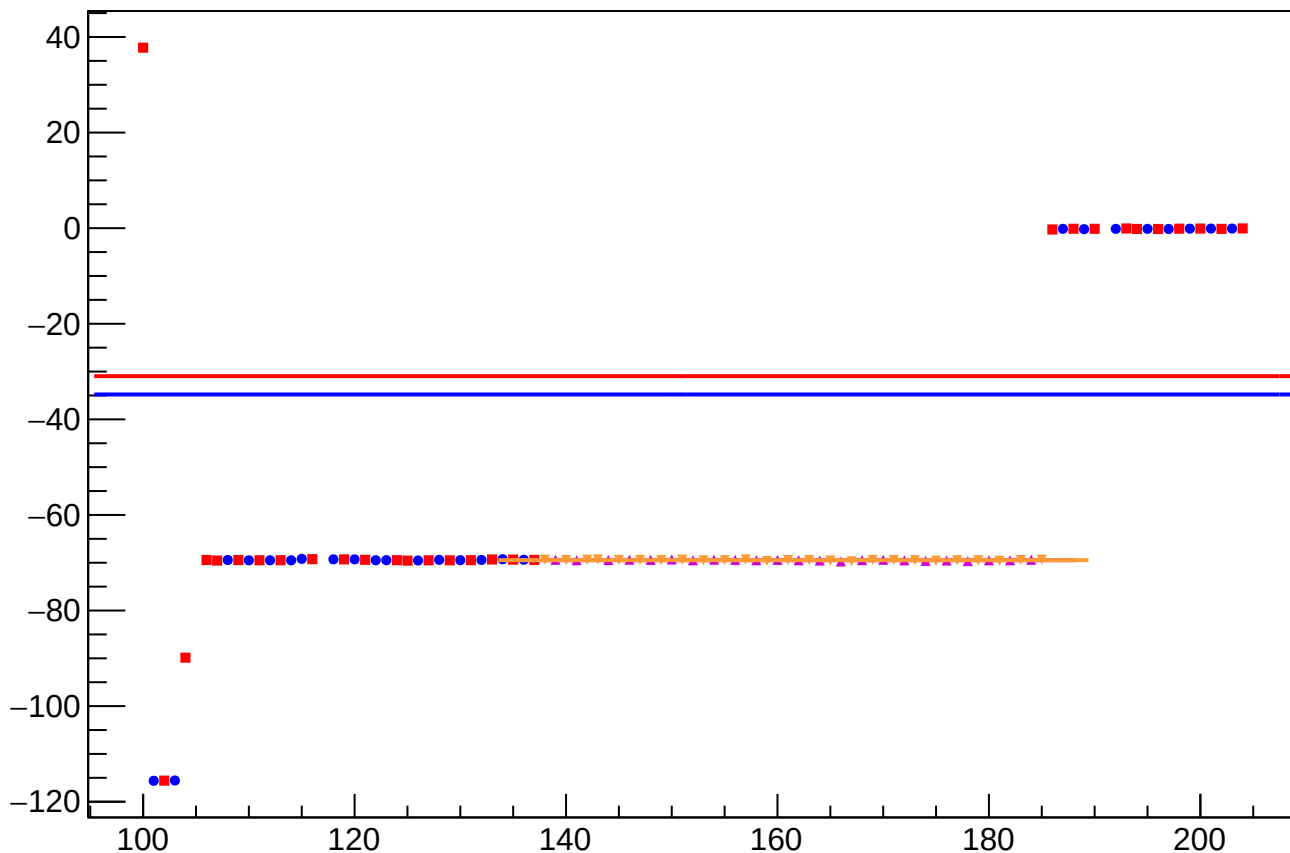
Right: 0.046+/-0.000 χ^2/NDF : 1263603.6/52

In: 0.046+/-0.000 χ^2/NDF : 832568.3/46

Out: 0.046+/-0.000 χ^2/NDF : 894435.2/52

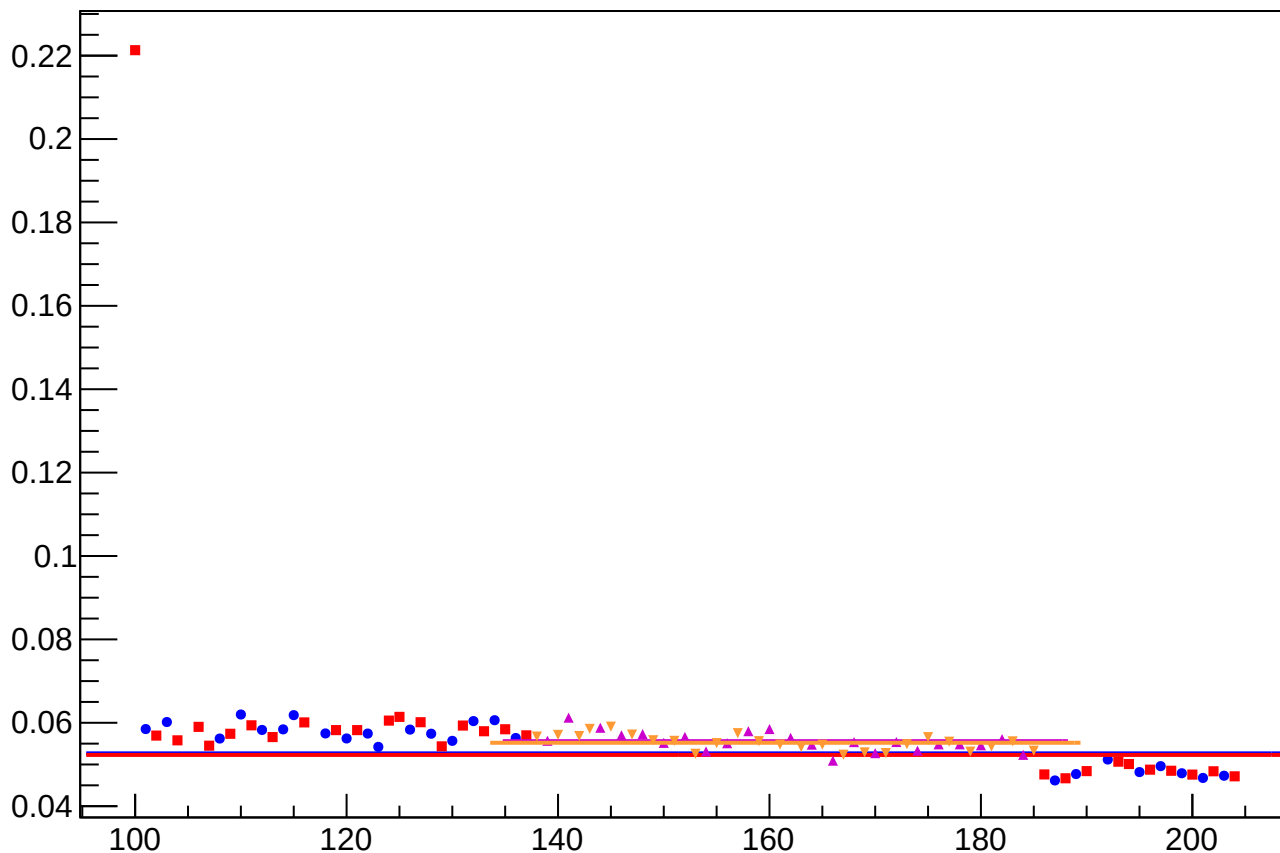
All: 0.046+/-0.000 χ^2/NDF : 1728468.5/99

yield_dsr_mean vs Slug, Sign Corrected



Right In: -34.795+/-0.000	χ^2/NDF : 6779485823818.9/24	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -32.739+/-0.000	χ^2/NDF : 13802830433117.7
Right Out: -30.970+/-0.000	χ^2/NDF : 6990030254211.6/28	In: -54.296+/-0.000	χ^2/NDF : 9643862063288.2/47
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -51.840+/-0.000	χ^2/NDF : 10944657828218.2/47
		All: -53.004+/-0.000	χ^2/NDF : 206192740018.2/47

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 217916.6/24

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.052+/-0.000 χ^2/NDF : 313760.1/28

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

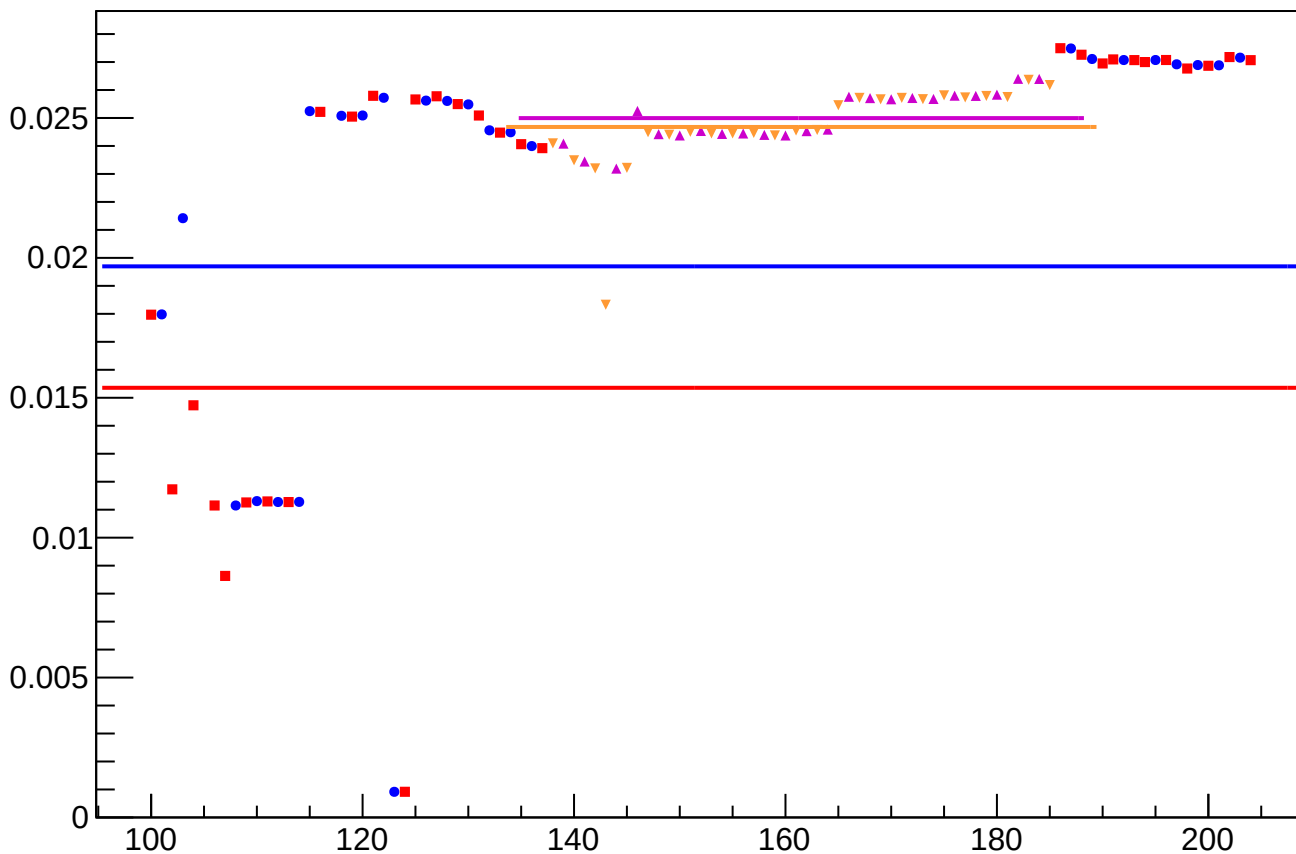
Right: 0.052+/-0.000 χ^2/NDF : 532310.1/53

In: 0.054+/-0.000 χ^2/NDF : 310982.8/47

Out: 0.054+/-0.000 χ^2/NDF : 397933.2/53

All: 0.054+/-0.000 χ^2/NDF : 710879.1/101

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 173386037482.7/24

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.017+/-0.000

χ^2/NDF : 585266361746.8/54

Right Out: 0.015+/-0.000

χ^2/NDF : 386506079505.6/29

In: 0.023+/-0.000

χ^2/NDF : 215054782713.8/47

Out: 0.020+/-0.000

χ^2/NDF : 546202539047.6/54

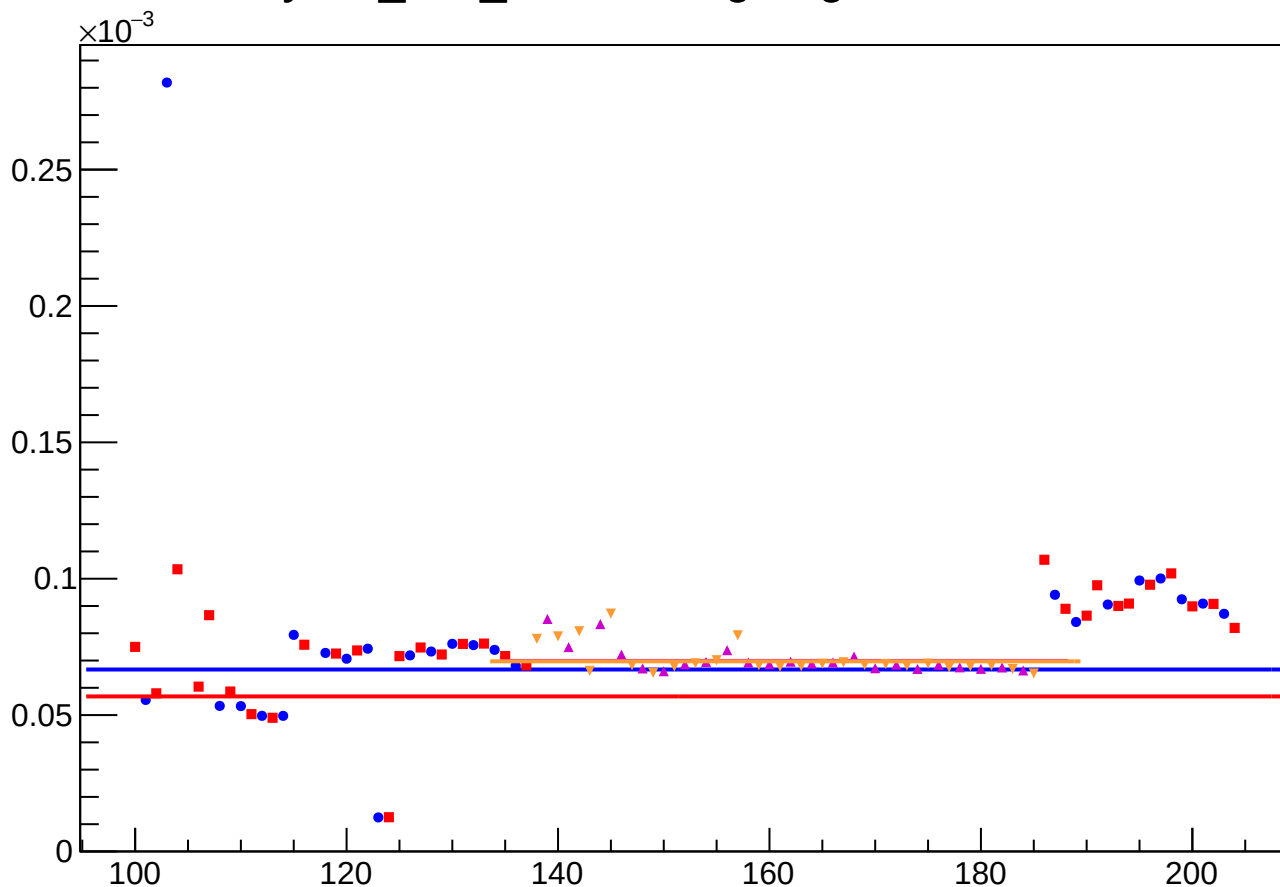
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 781769544163.3

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3162949.5/24

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6350631.8/29

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

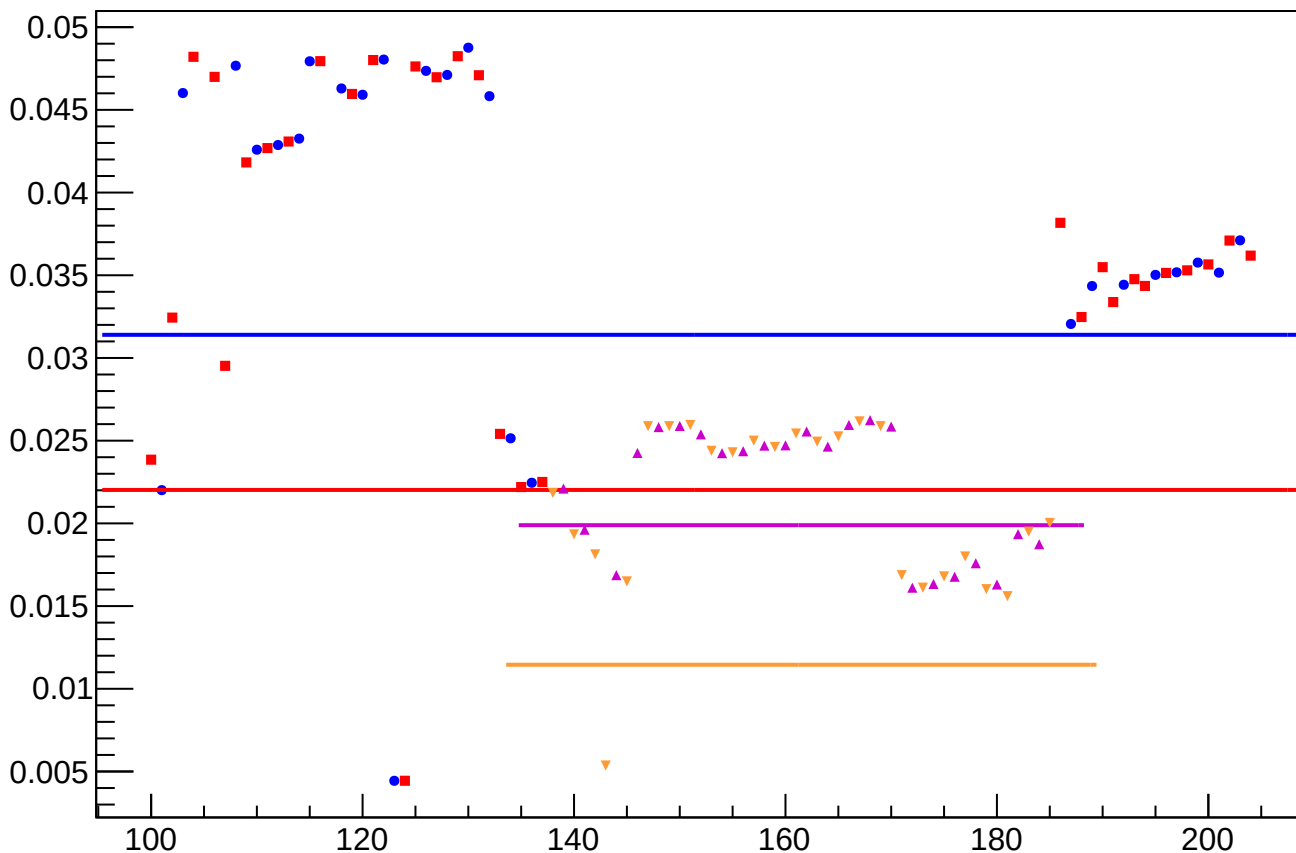
Right: 0.000+/-0.000 χ^2/NDF : 9776123.2/54

In: 0.000+/-0.000 χ^2/NDF :3319812.6/47

Out: 0.000+/-0.000 χ^2/NDF :7080928.9/54

All: 0.000+/-0.000 χ^2/NDF : 10551267.2/102

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031 $\pm$ 0.000

χ^2/NDF : 21302752814.7/24

Left: 0.014 $\pm$ 0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011 $\pm$ 0.000

χ^2/NDF : 40294472965.0/24

Right: 0.026 $\pm$ 0.000

χ^2/NDF : 69239333533.9/54

Right Out: 0.022 $\pm$ 0.000

χ^2/NDF : 43351152718.3/29

In: 0.022 $\pm$ 0.000

χ^2/NDF : 34438099673.5/47

Out: 0.013 $\pm$ 0.000

χ^2/NDF : 96440369078.2/54

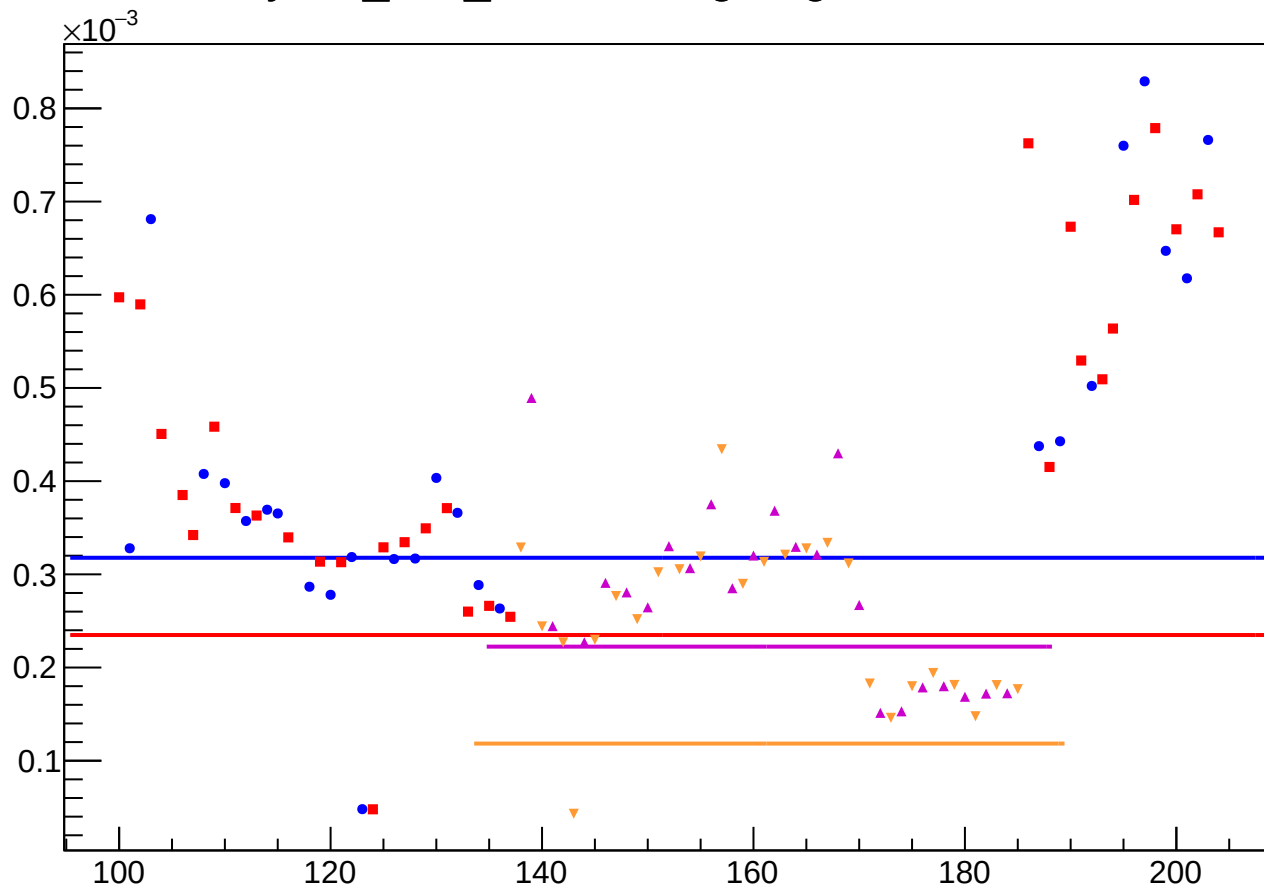
Left In: 0.020 $\pm$ 0.000

χ^2/NDF : 4458790813.3/22

All: 0.016 $\pm$ 0.000

χ^2/NDF : 153593667604.9

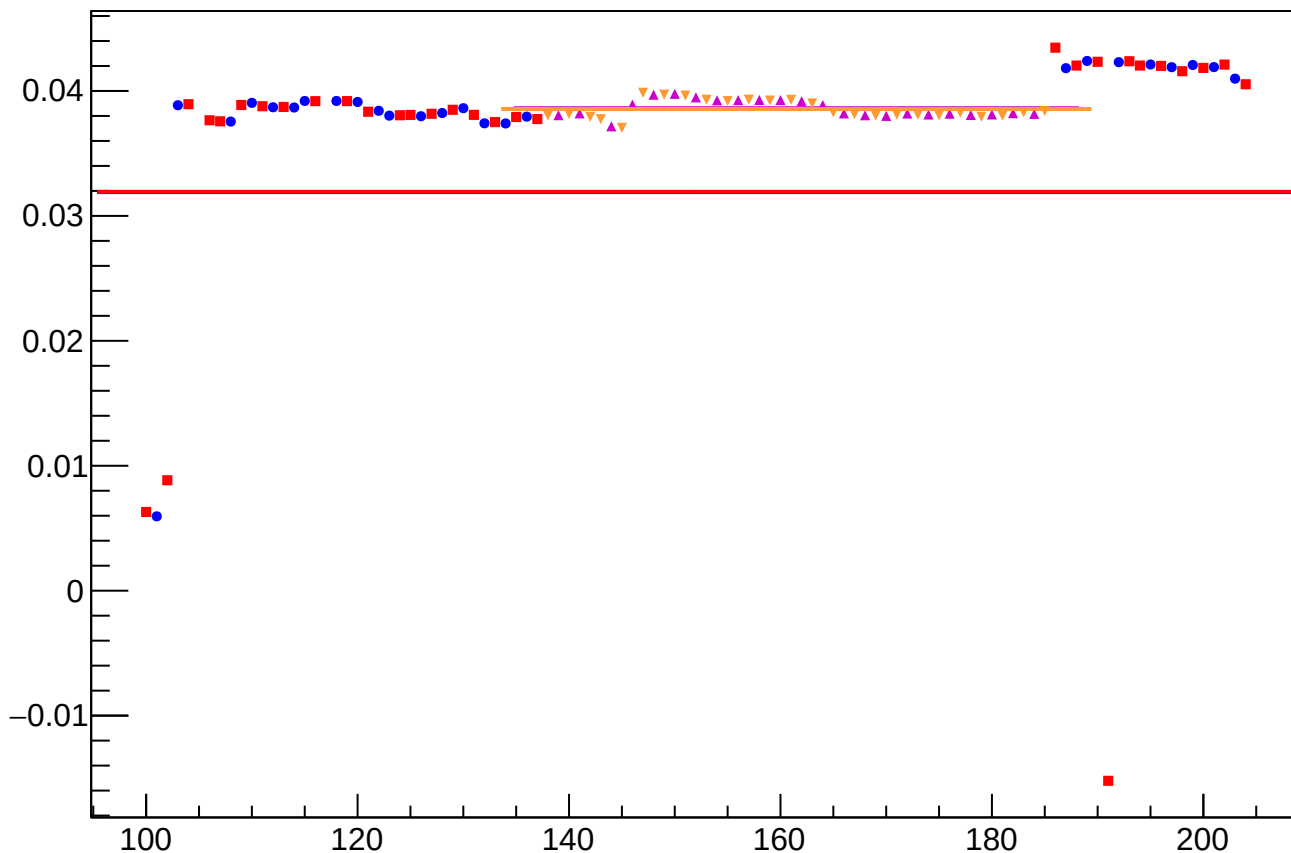
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5466889.6/24
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 11182008.6/29
 Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47
 Right: 0.000+/-0.000 χ^2/NDF : 17365559.4/54
 In: 0.000+/-0.000 χ^2/NDF :9939141.9/47
 Out: 0.000+/-0.000 χ^2/NDF :27853739.0/54
 All: 0.000+/-0.000 χ^2/NDF : 43747425.3/102

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 109115208556.7/24

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.032+/-0.000

χ^2/NDF : 285911809699.7/54

Right Out: 0.032+/-0.000

χ^2/NDF : 176796450693.9/29

In: 0.036+/-0.000

χ^2/NDF : 126071406274.4/47

Out: 0.036+/-0.000

χ^2/NDF : 194628588750.9/54

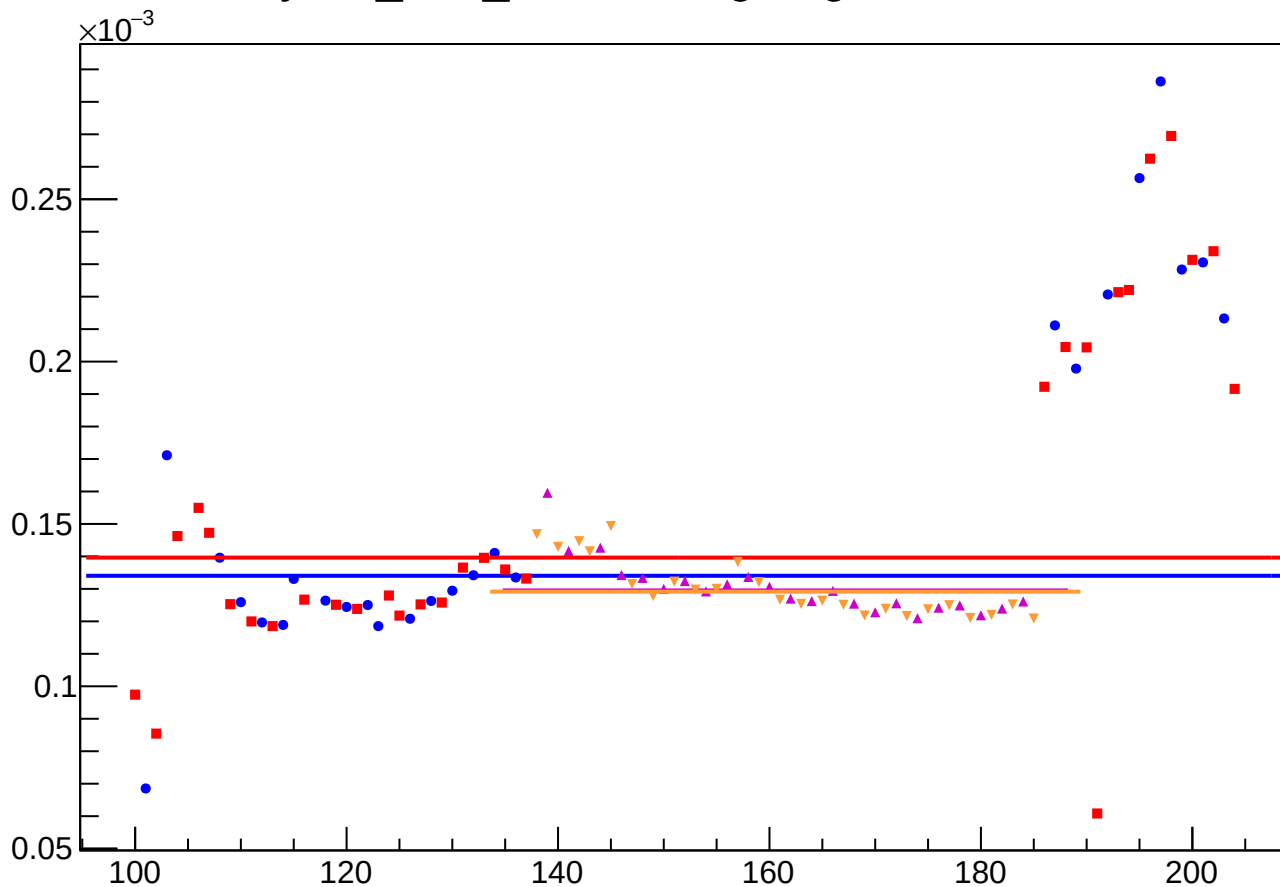
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 320702924793.4

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3090641.2/24

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3028985.3/29

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

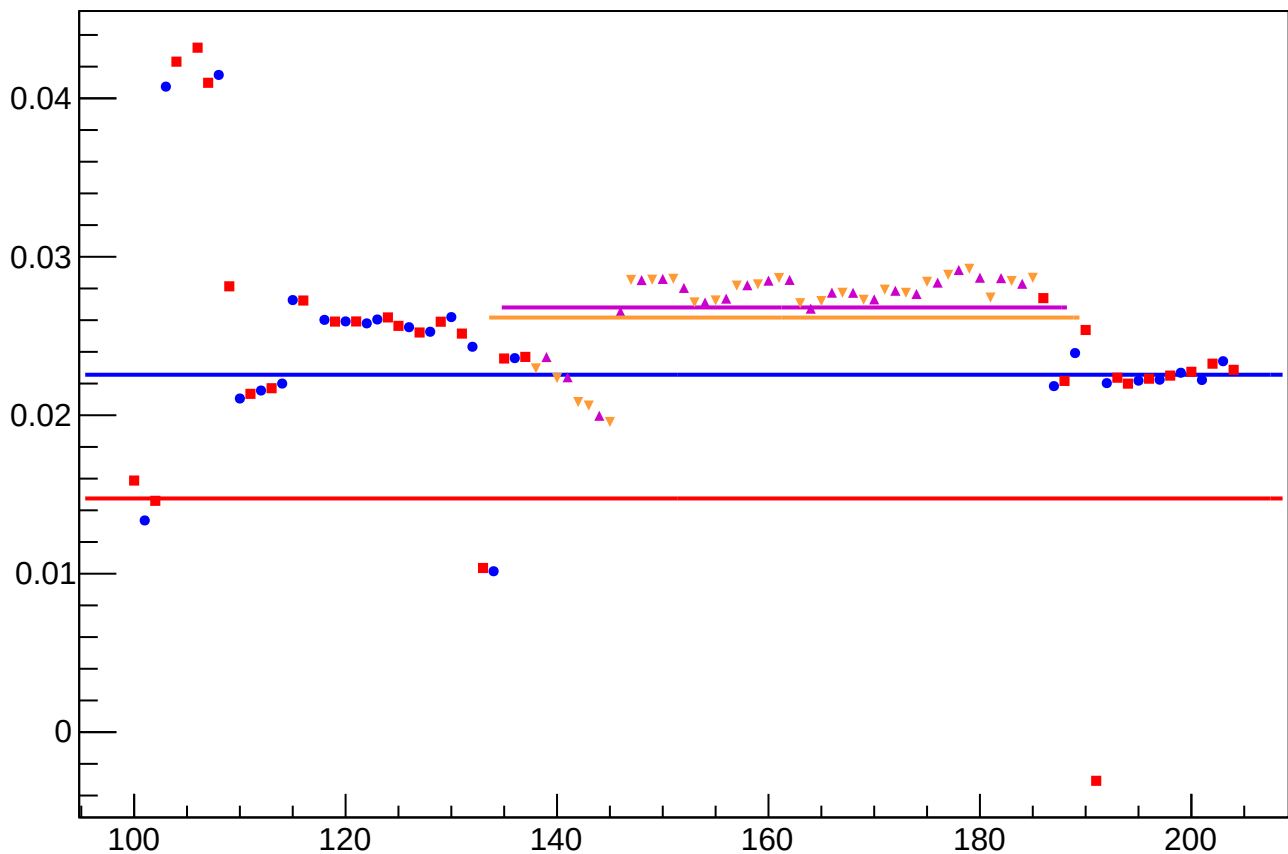
Right: 0.000+/-0.000 χ^2/NDF : 6138304.2/54

In: 0.000+/-0.000 χ^2/NDF :3220248.1/47

Out: 0.000+/-0.000 χ^2/NDF :3245851.8/54

All: 0.000+/-0.000 χ^2/NDF : 6471545.6/102

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.000 χ^2 /NDF: 4245546475.8/24

Left Out: 0.026 $\pm$ 0.000 χ^2 /NDF:2056710635.1/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 31063095227.3/29

Left In: 0.027 $\pm$ 0.000 χ^2 /NDF:1332033607.7/22

Left: 0.026 $\pm$ 0.000 χ^2 /NDF: 3427924441.4/47

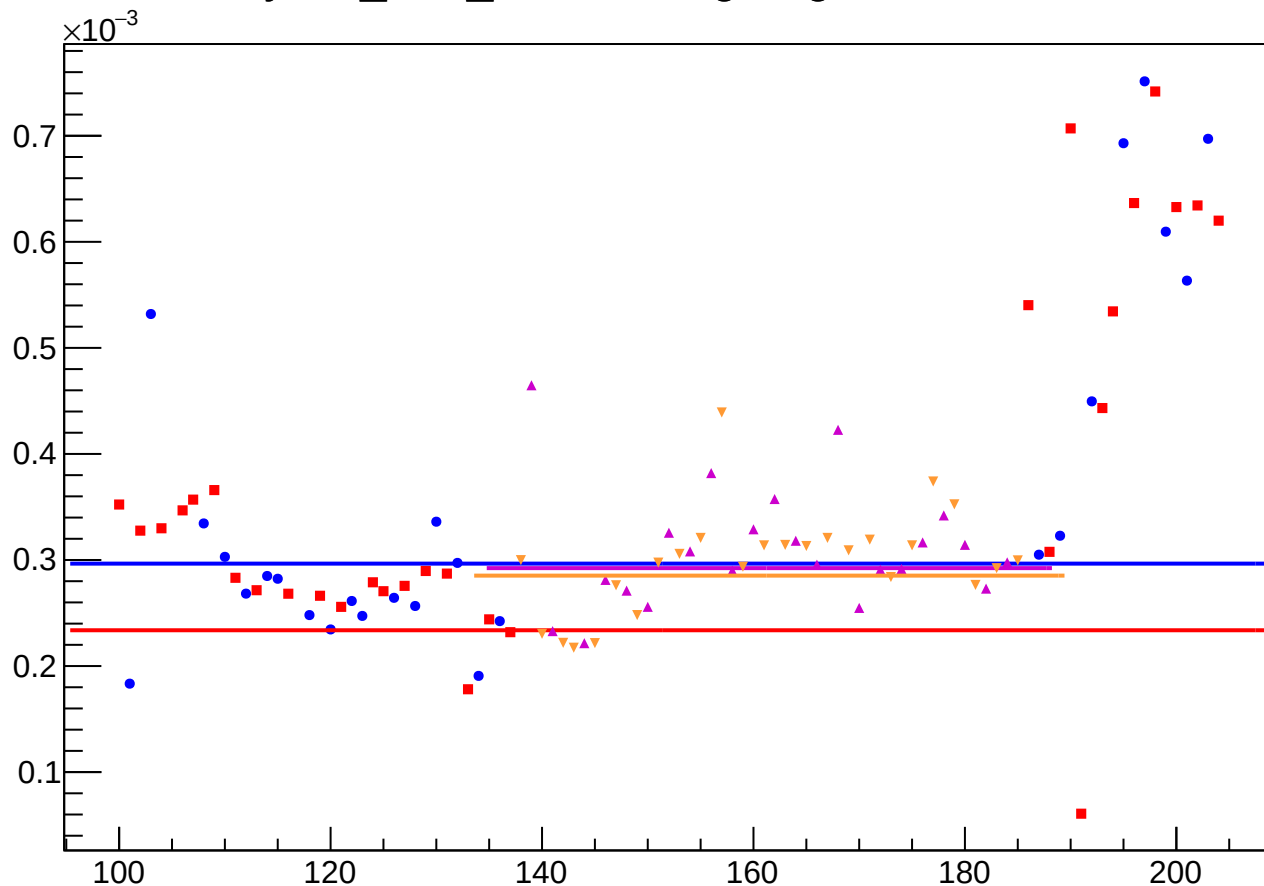
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 39273336647.8/54

In: 0.025 $\pm$ 0.000 χ^2 /NDF:6805998422.3/47

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:44877327404.7/54

All: 0.023 $\pm$ 0.000 χ^2 /NDF: 54527547919.5/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3450297.2/24

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8158220.4/29

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

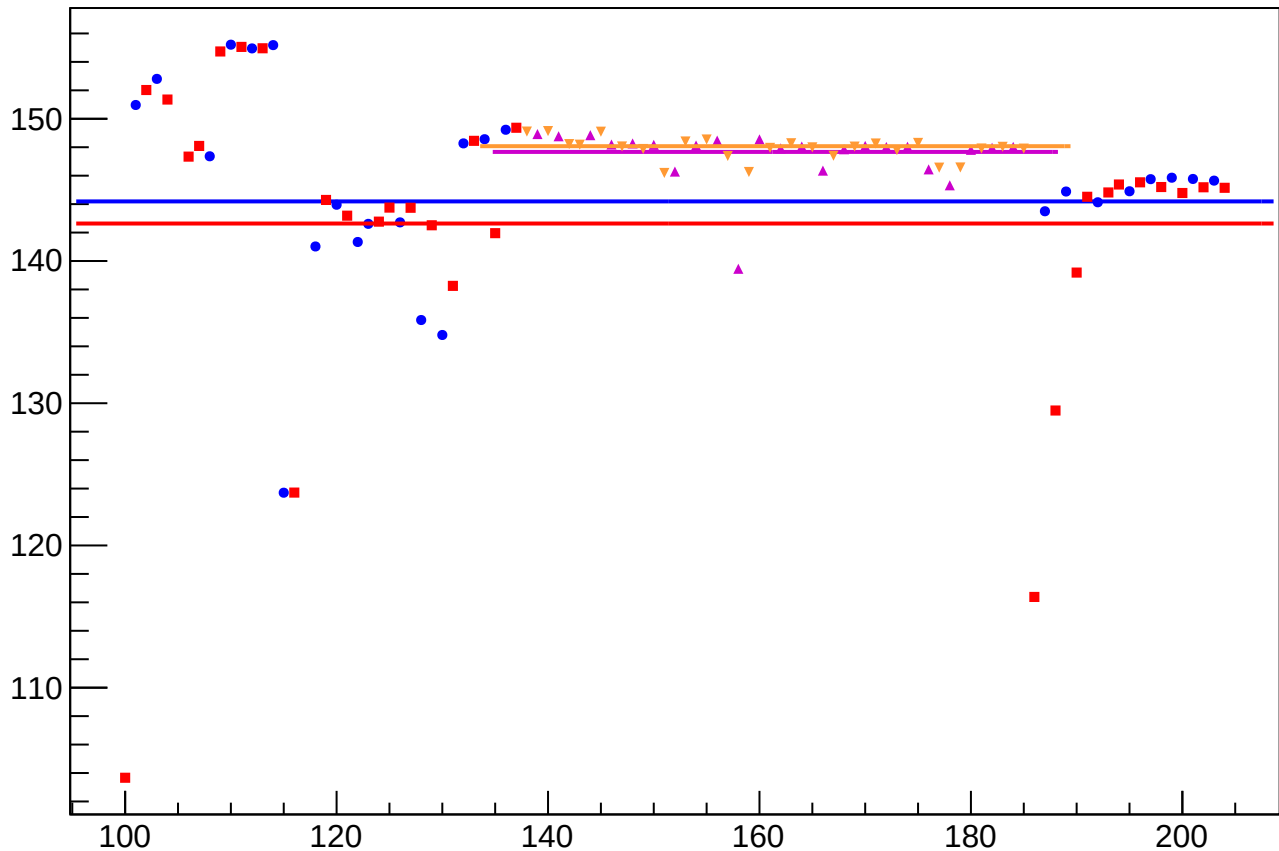
Right: 0.000+/-0.000 χ^2/NDF : 12121973.3/54

In: 0.000+/-0.000 χ^2/NDF :4351522.4/47

Out: 0.000+/-0.000 χ^2/NDF :9450628.3/54

All: 0.000+/-0.000 χ^2/NDF : 14128833.2/102

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.191 $\pm$ 0.000 χ^2 /NDF: 3485277708.2/24

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.635 $\pm$ 0.000 χ^2 /NDF: 7392386246.4/29

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

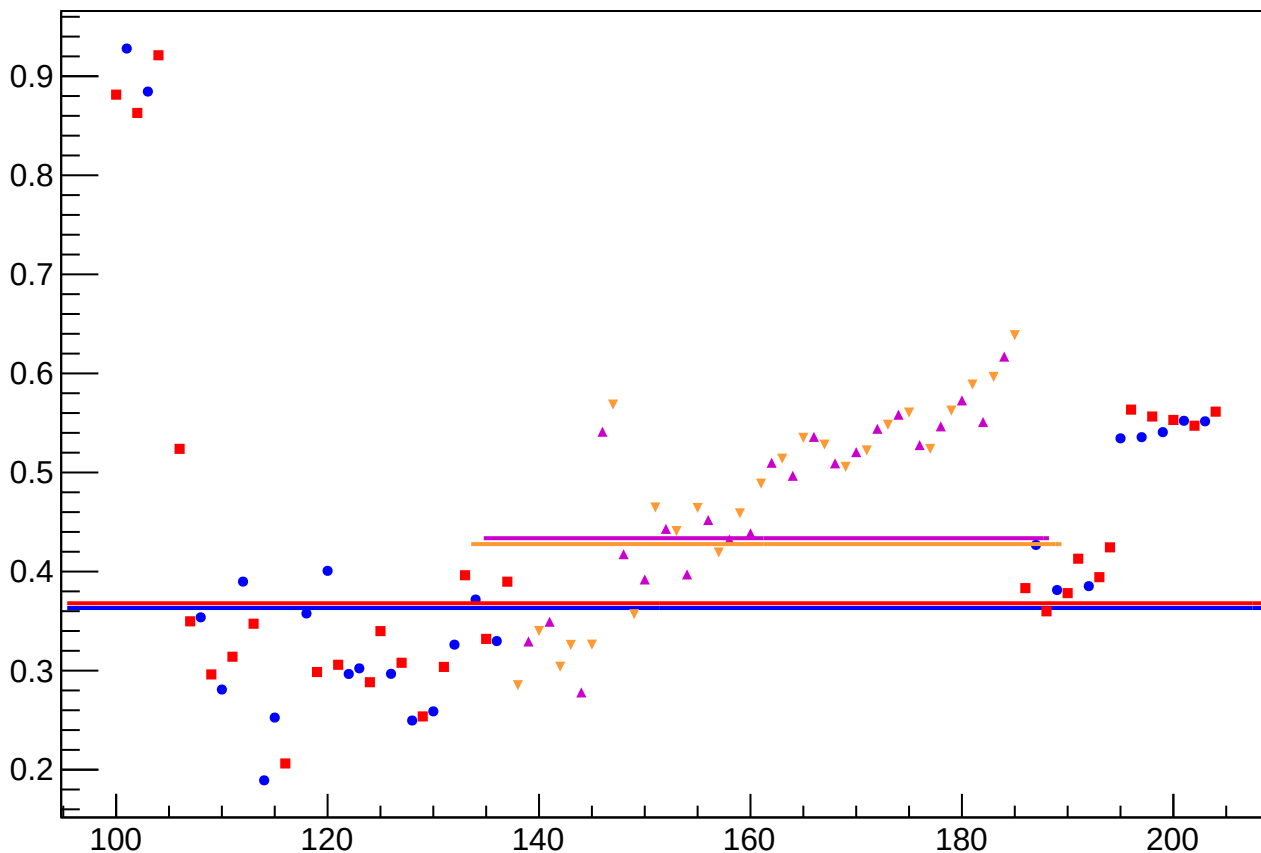
Right: 143.356 $\pm$ 0.000 χ^2 /NDF: 10978481176.1/54

In: 146.025 $\pm$ 0.000 χ^2 /NDF: 4325644331.9/47

Out: 145.396 $\pm$ 0.000 χ^2 /NDF: 8808878001.3/54

All: 145.693 $\pm$ 0.000 χ^2 /NDF: 13168727600.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.363 $\pm$ 0.000 χ^2/NDF : 2350626.7/24

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1896808.7/24

Right Out: 0.368 $\pm$ 0.000 χ^2/NDF : 2327903.0/29

Left In: 0.434 $\pm$ 0.000 χ^2/NDF :1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2/NDF : 3396308.8/47

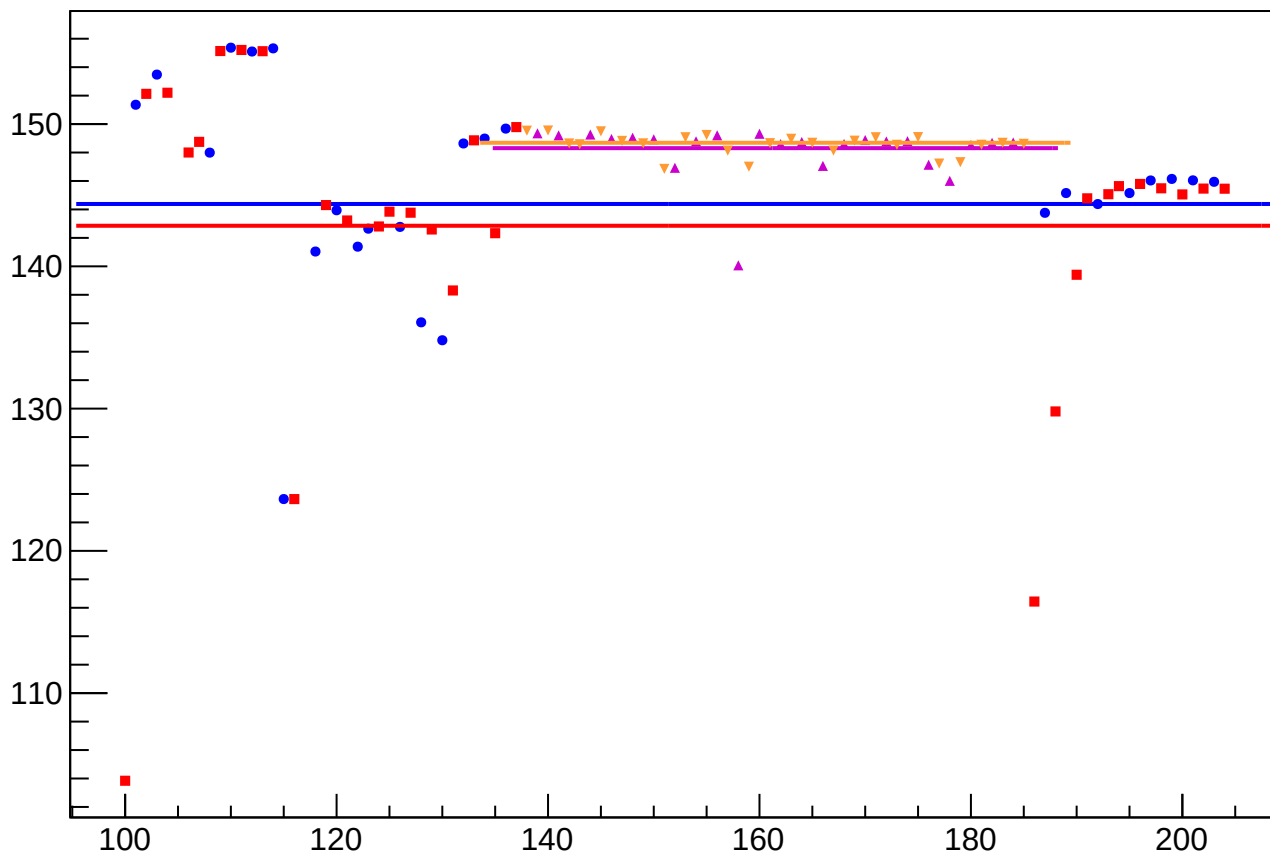
Right: 0.366 $\pm$ 0.000 χ^2/NDF : 4680466.8/54

In: 0.400 $\pm$ 0.000 χ^2/NDF :4253464.3/47

Out: 0.398 $\pm$ 0.000 χ^2/NDF :4550800.0/54

All: 0.399 $\pm$ 0.000 χ^2/NDF : 8804961.3/102

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.383 $\pm$ 0.000 χ^2 /NDF: 3533773027.3/24

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.853 $\pm$ 0.000 χ^2 /NDF: 7340406111.5/29

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

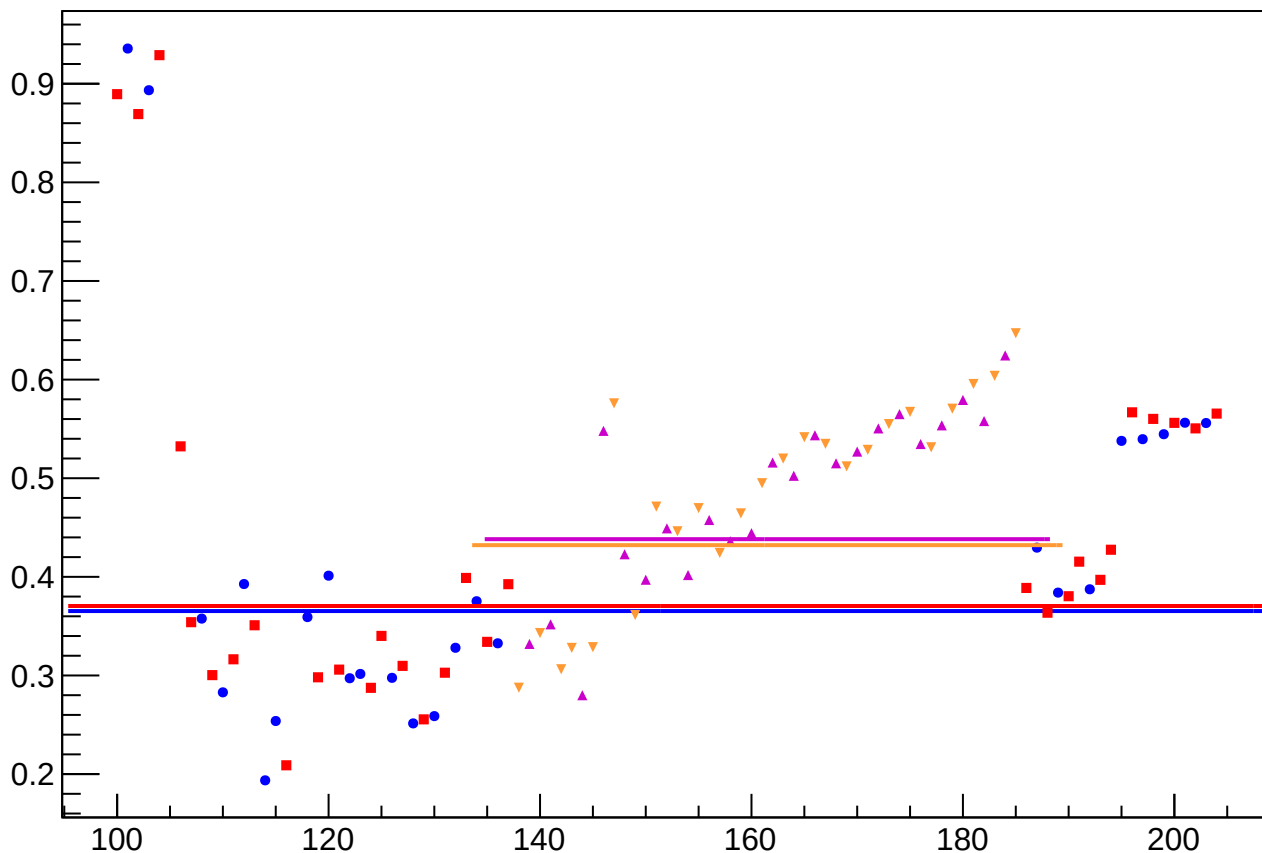
Right: 143.562 $\pm$ 0.000 χ^2 /NDF: 10970534063.7/54

In: 146.442 $\pm$ 0.000 χ^2 /NDF: 4486684316.7/47

Out: 145.802 $\pm$ 0.000 χ^2 /NDF: 8920446125.1/54

All: 146.105 $\pm$ 0.000 χ^2 /NDF: 13441884948.2/100

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.365+/-0.000 χ^2/NDF : 2357398.7/24

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.370+/-0.000 χ^2/NDF : 2331912.0/29

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

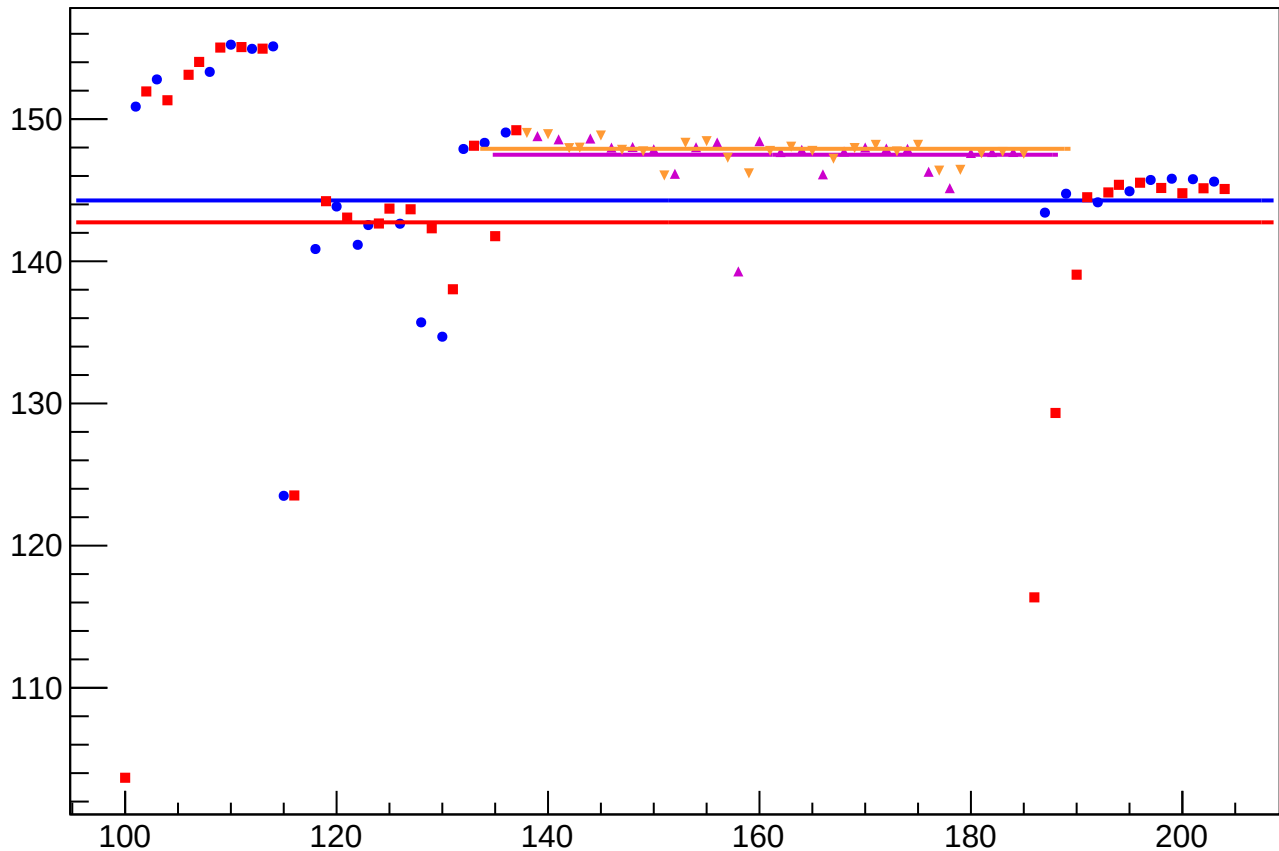
Right: 0.368+/-0.000 χ^2/NDF : 4691471.9/54

In: 0.404+/-0.000 χ^2/NDF :4306704.4/47

Out: 0.402+/-0.000 χ^2/NDF :4602651.5/54

All: 0.403+/-0.000 χ^2/NDF : 8909986.4/102

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.279 $\pm$ 0.000 χ^2 /NDF: 3692559709.9/24

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.739 $\pm$ 0.000 χ^2 /NDF: 7771665368.9/29

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

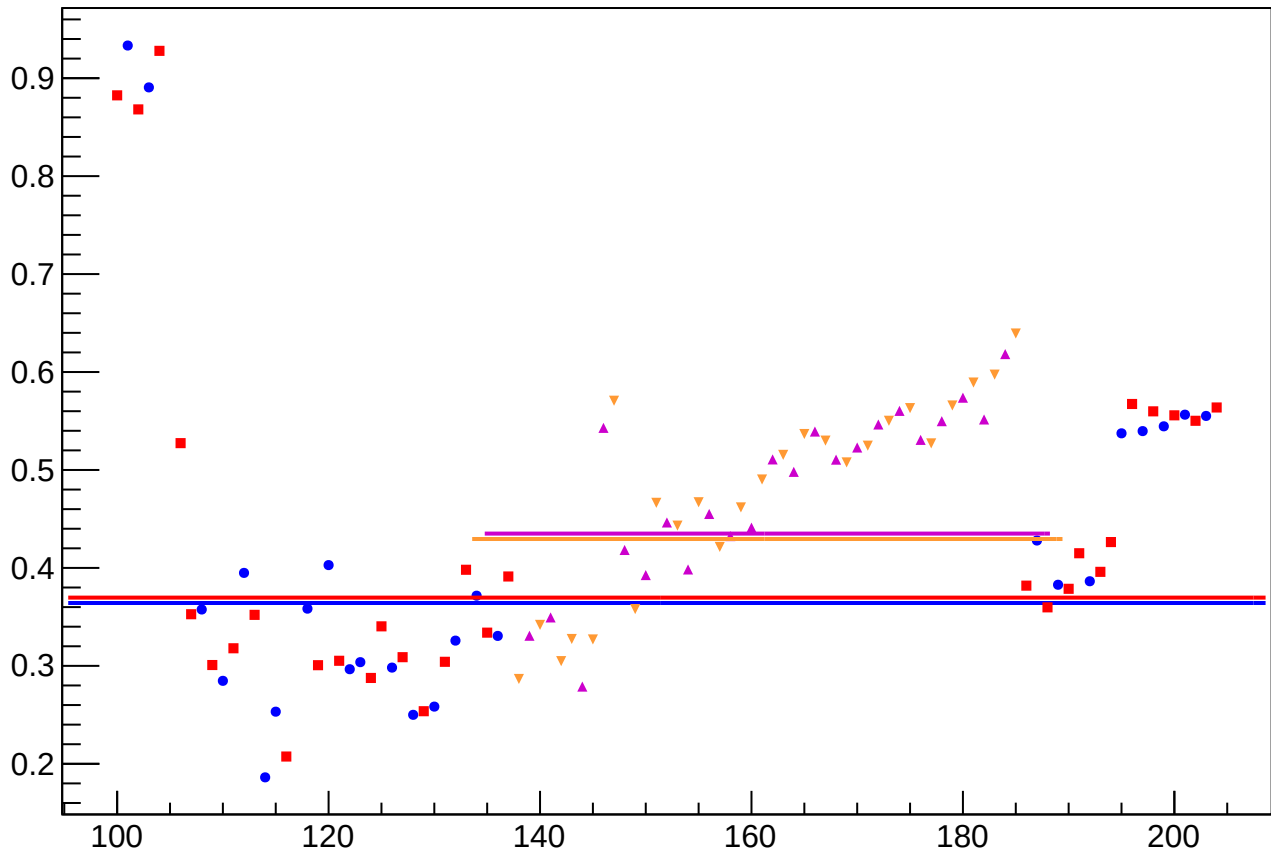
Right: 143.452 $\pm$ 0.000 χ^2 /NDF: 11562261629.4/54

In: 145.973 $\pm$ 0.000 χ^2 /NDF: 4456244344.7/47

Out: 145.365 $\pm$ 0.000 χ^2 /NDF: 9047827745.7/54

All: 145.653 $\pm$ 0.000 χ^2 /NDF: 13535796228.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.364 $\pm$ 0.000 χ^2 /NDF: 2380997.0/24

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.370 $\pm$ 0.000 χ^2 /NDF: 2332052.7/29

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

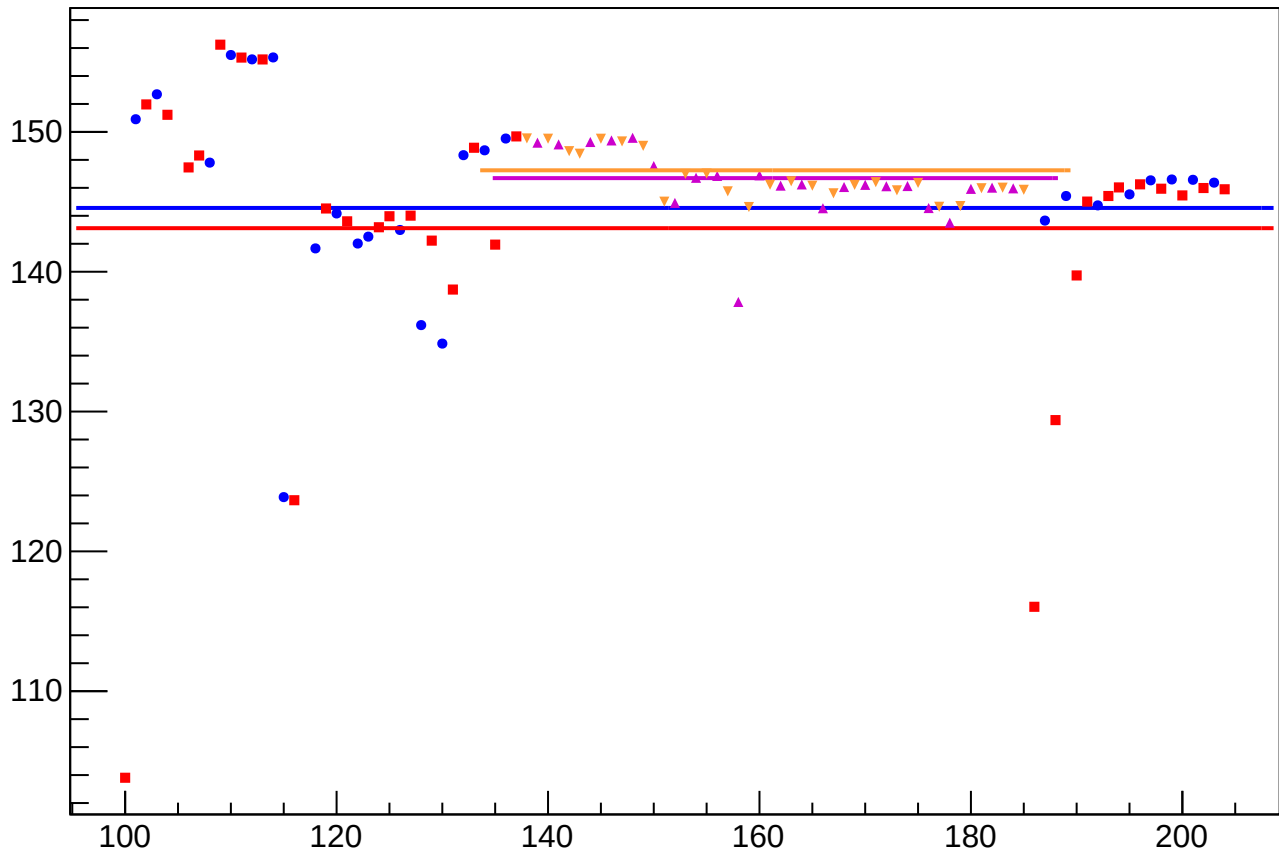
Right: 0.367 $\pm$ 0.000 χ^2 /NDF: 4715544.4/54

In: 0.402 $\pm$ 0.000 χ^2 /NDF:4291563.3/47

Out: 0.400 $\pm$ 0.000 χ^2 /NDF:4552028.8/54

All: 0.401 $\pm$ 0.000 χ^2 /NDF: 8843967.4/102

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.563 $\pm$ 0.000 χ^2/NDF : 3215474192.9/24

Left Out: 147.255 $\pm$ 0.000 χ^2/NDF : 262138049.8/24

Right Out: 143.116 $\pm$ 0.000 χ^2/NDF : 7104873543.8/29

Left In: 146.695 $\pm$ 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2/NDF : 833217060.4/47

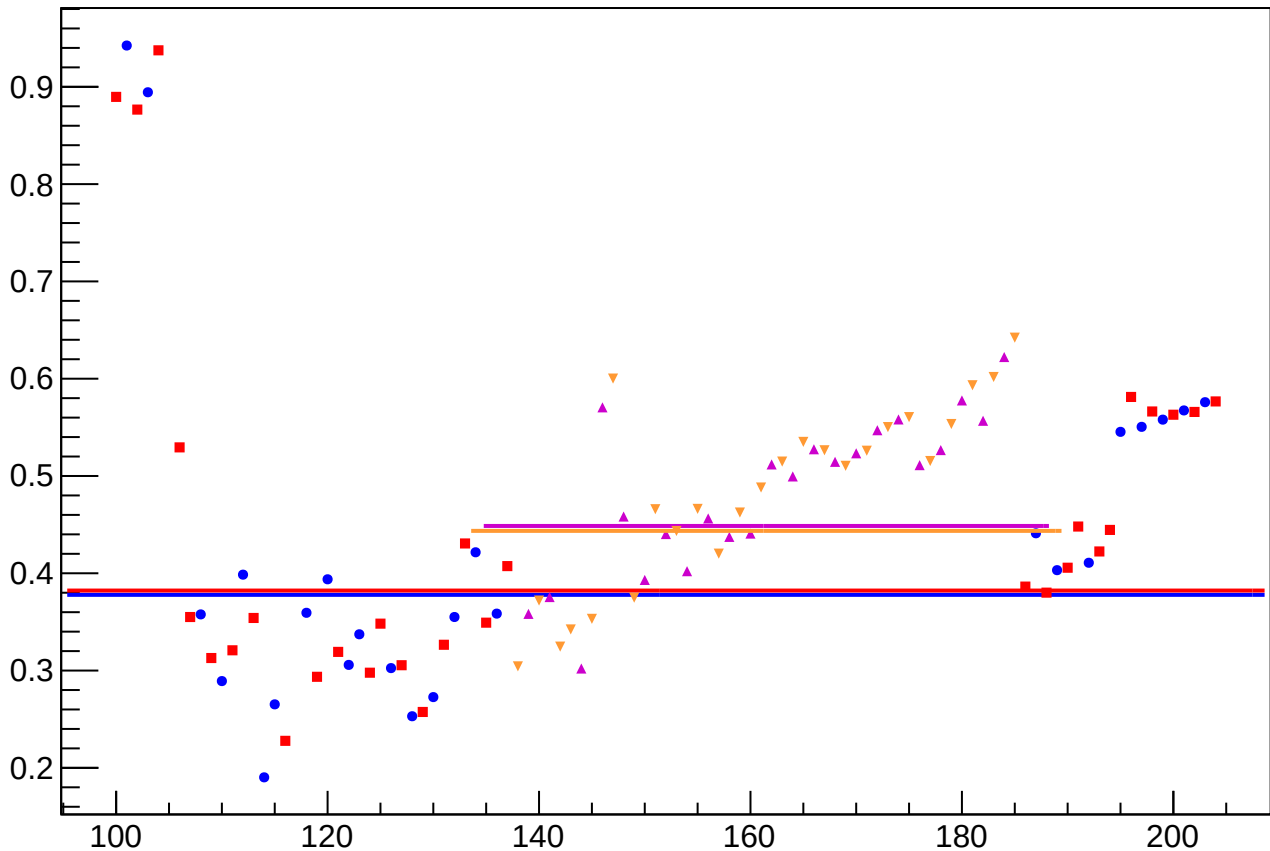
Right: 143.784 $\pm$ 0.000 χ^2/NDF : 10400945955.5/54

In: 145.700 $\pm$ 0.000 χ^2/NDF : 3946643238.4/47

Out: 145.232 $\pm$ 0.000 χ^2/NDF : 8096350463.8/54

All: 145.453 $\pm$ 0.000 χ^2/NDF : 12060653022.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Left: 0.446 ± 0.000 $\chi^2/\text{NDF}: 2618207.6/47$

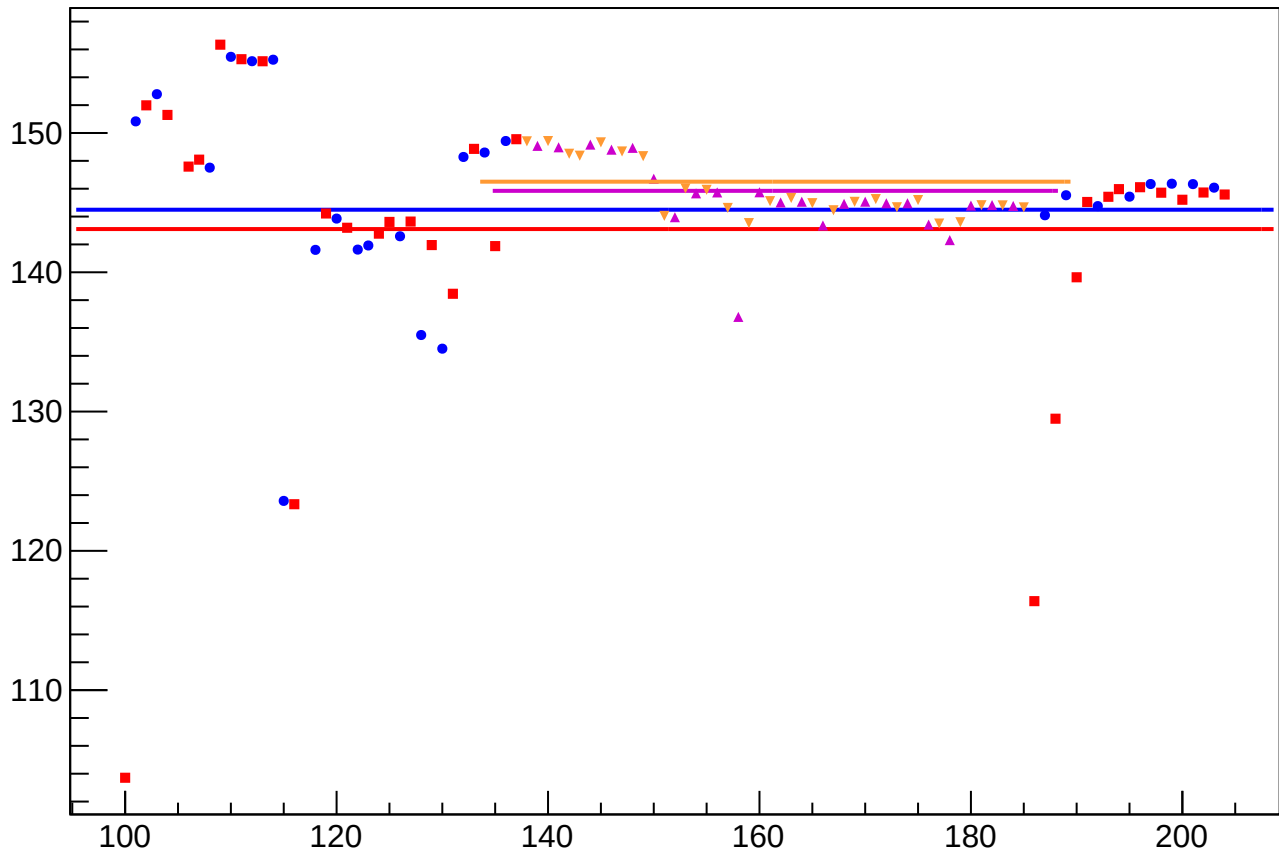
Right: 0.380 ± 0.000 $\chi^2/\text{NDF}: 4604763.4/54$

In: 0.416 ± 0.000 $\chi^2/\text{NDF}: 3842645.6/47$

Out: 0.414 ± 0.000 $\chi^2/\text{NDF}: 4079165.4/54$

All: 0.415 ± 0.000 $\chi^2/\text{NDF}: 7922437.6/102$

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.492 $\pm$ 0.000 χ^2 /NDF: 3327477449.2/24

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.103 $\pm$ 0.000 χ^2 /NDF: 7062574685.5/29

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

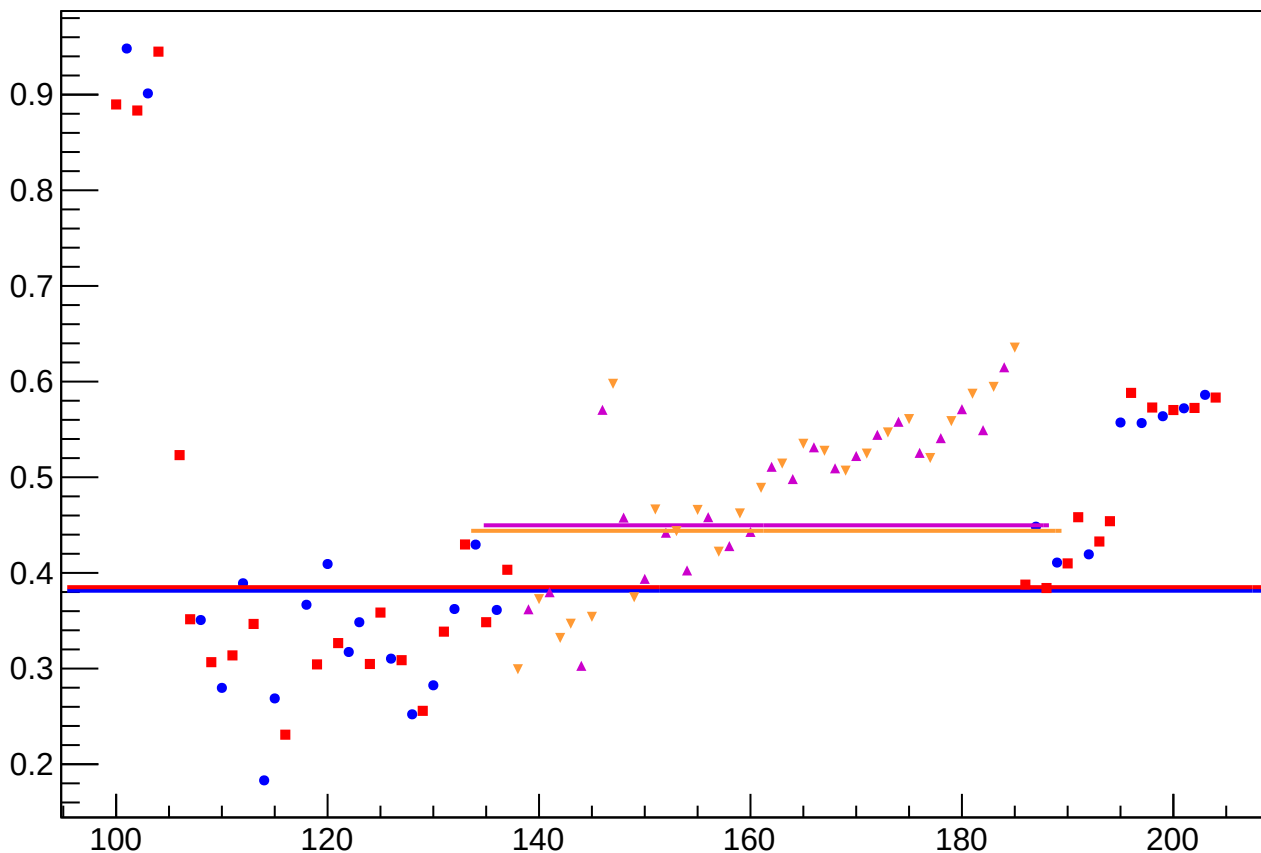
Right: 143.743 $\pm$ 0.000 χ^2 /NDF: 10462693093.2/54

In: 145.220 $\pm$ 0.000 χ^2 /NDF: 4091184250.6/47

Out: 144.856 $\pm$ 0.000 χ^2 /NDF: 7951770795.8/54

All: 145.028 $\pm$ 0.000 χ^2 /NDF: 12053515470.0/147

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.381 $\pm$ 0.000 χ^2 /NDF: 2370075.9/24

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 2299488.5/29

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

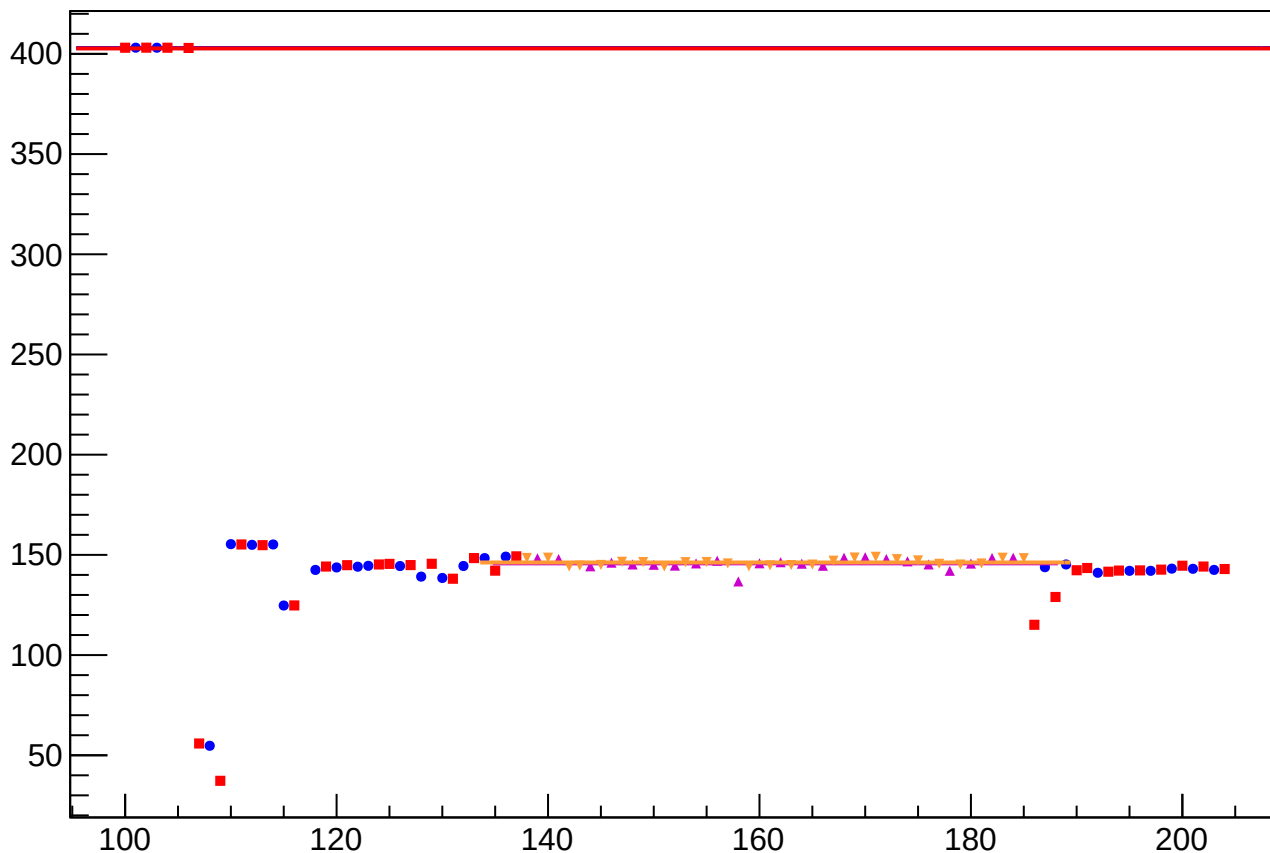
Right: 0.383 $\pm$ 0.000 χ^2 /NDF: 4670607.5/54

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3826753.6/47

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:4055147.5/54

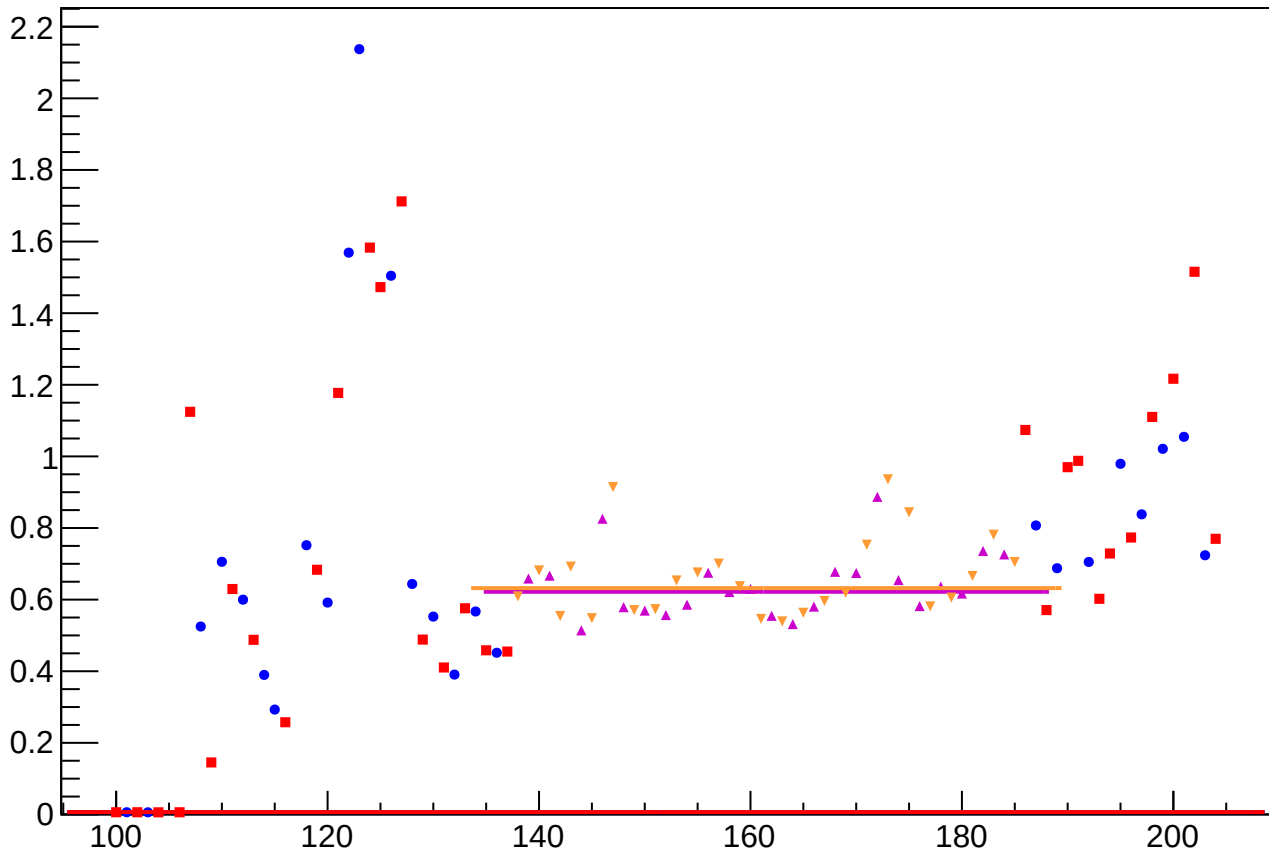
All: 0.417 $\pm$ 0.000 χ^2 /NDF: 7883049.8/102

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.906 $\pm$ 0.000	χ^2 /NDF: 1514540528543.9/24	Left: 145.990 $\pm$ 0.000	χ^2 /NDF: 297342055.1/47
Left Out: 146.205 $\pm$ 0.000	χ^2 /NDF: 86658381.3/24	Right: 402.811 $\pm$ 0.000	χ^2 /NDF: 5275769072553.5
Right Out: 402.728 $\pm$ 0.000	χ^2 /NDF: 3760706892873.7/29	In: 402.613 $\pm$ 0.000	χ^2 /NDF: 3863627312356.8/47
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.467 $\pm$ 0.000	χ^2 /NDF: 6128786229819.2/5
		All: 402.535 $\pm$ 0.000	χ^2 /NDF: 999276704120

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 17511185.1/24

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 20755355.3/29

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

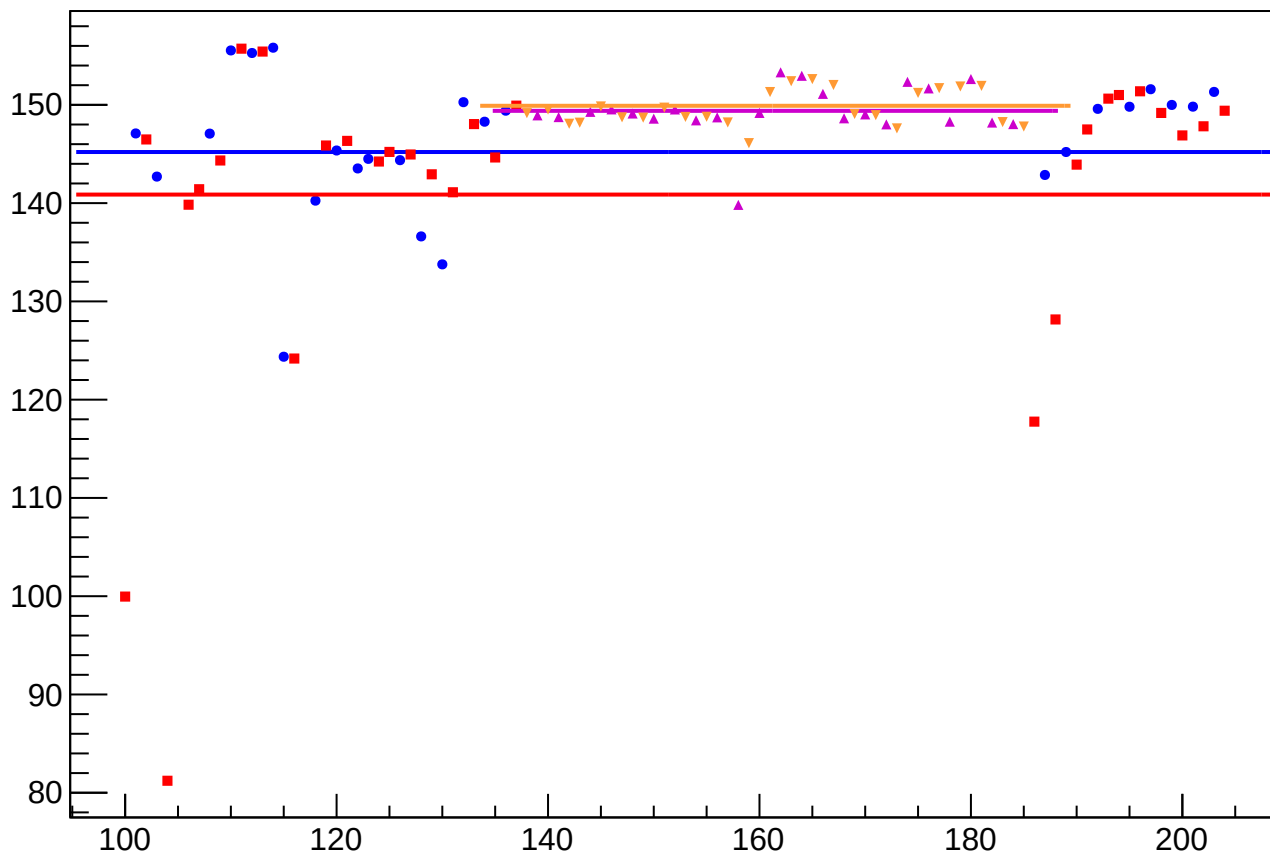
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 38266567.9/54

In: 0.007 $\pm$ 0.000 χ^2 /NDF:44827680.4/47

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:49535678.5/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 94363398.7/102

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.201+/-0.000 χ^2/NDF : 1299654700.5/24

Left Out: 149.906+/-0.000 χ^2/NDF : 163261802.4/24

Right Out: 140.870+/-0.000 χ^2/NDF : 3145293208.3/29

Left In: 149.391+/-0.000 χ^2/NDF : 437129920.4/22

Left: 149.657+/-0.000 χ^2/NDF : 606930259.3/47

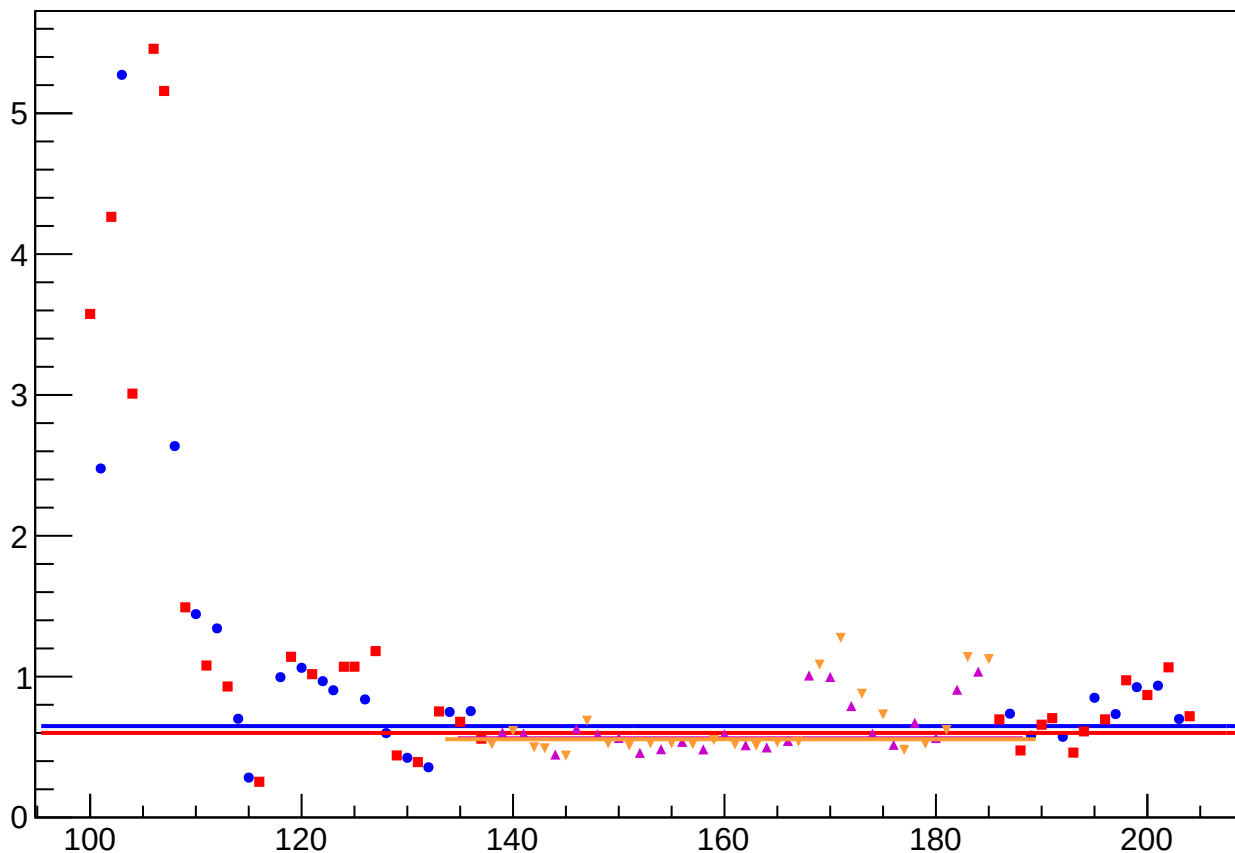
Right: 142.716+/-0.000 χ^2/NDF : 4643854039.2/54

In: 148.219+/-0.000 χ^2/NDF : 1970430536.5/47

Out: 146.940+/-0.000 χ^2/NDF : 4673220764.1/54

All: 147.536+/-0.000 χ^2/NDF : 6701365503.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.649 $\pm$ 0.000 χ^2 /NDF: 3940493.0/24

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.600 $\pm$ 0.000 χ^2 /NDF: 5485819.8/29

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

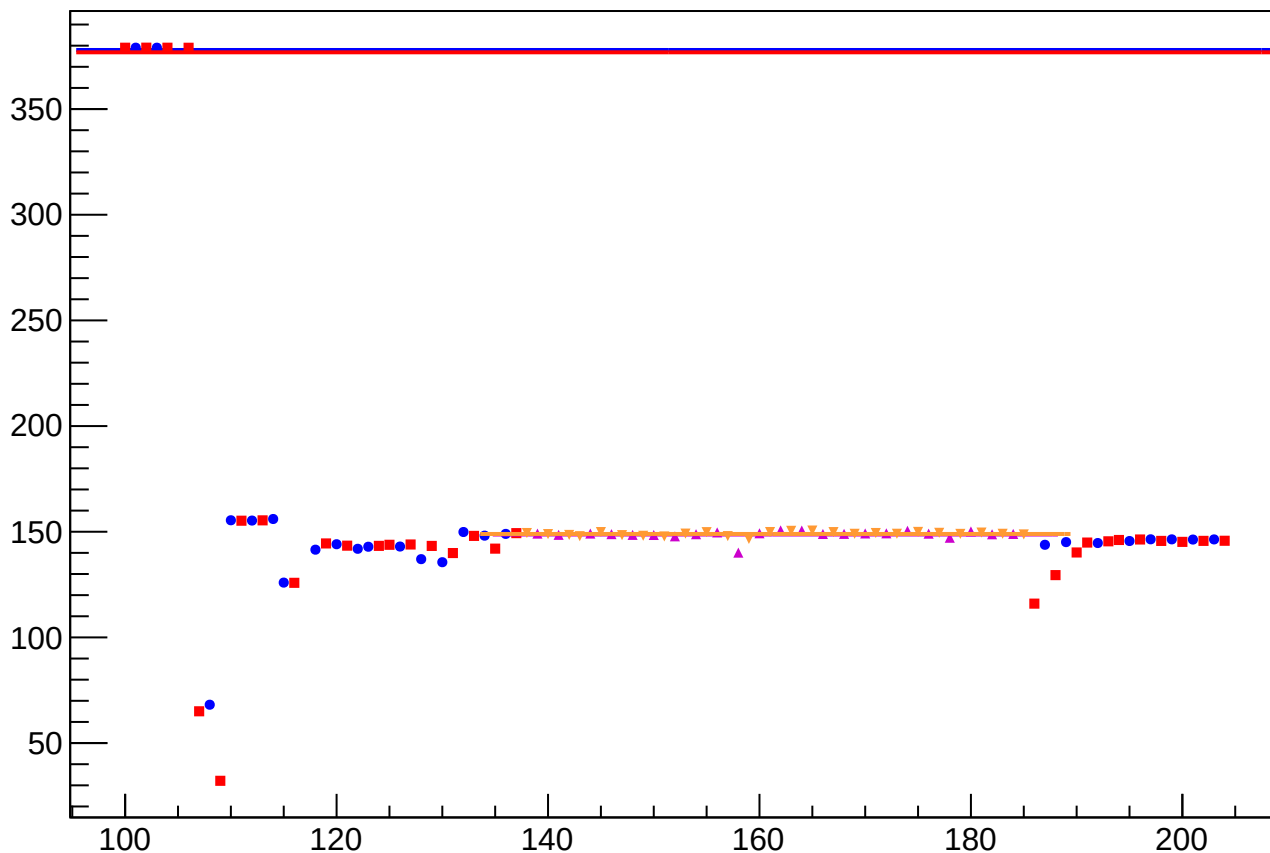
Right: 0.621 $\pm$ 0.000 χ^2 /NDF: 9476275.8/54

In: 0.586 $\pm$ 0.000 χ^2 /NDF:5451307.5/47

Out: 0.570 $\pm$ 0.000 χ^2 /NDF:7326145.6/54

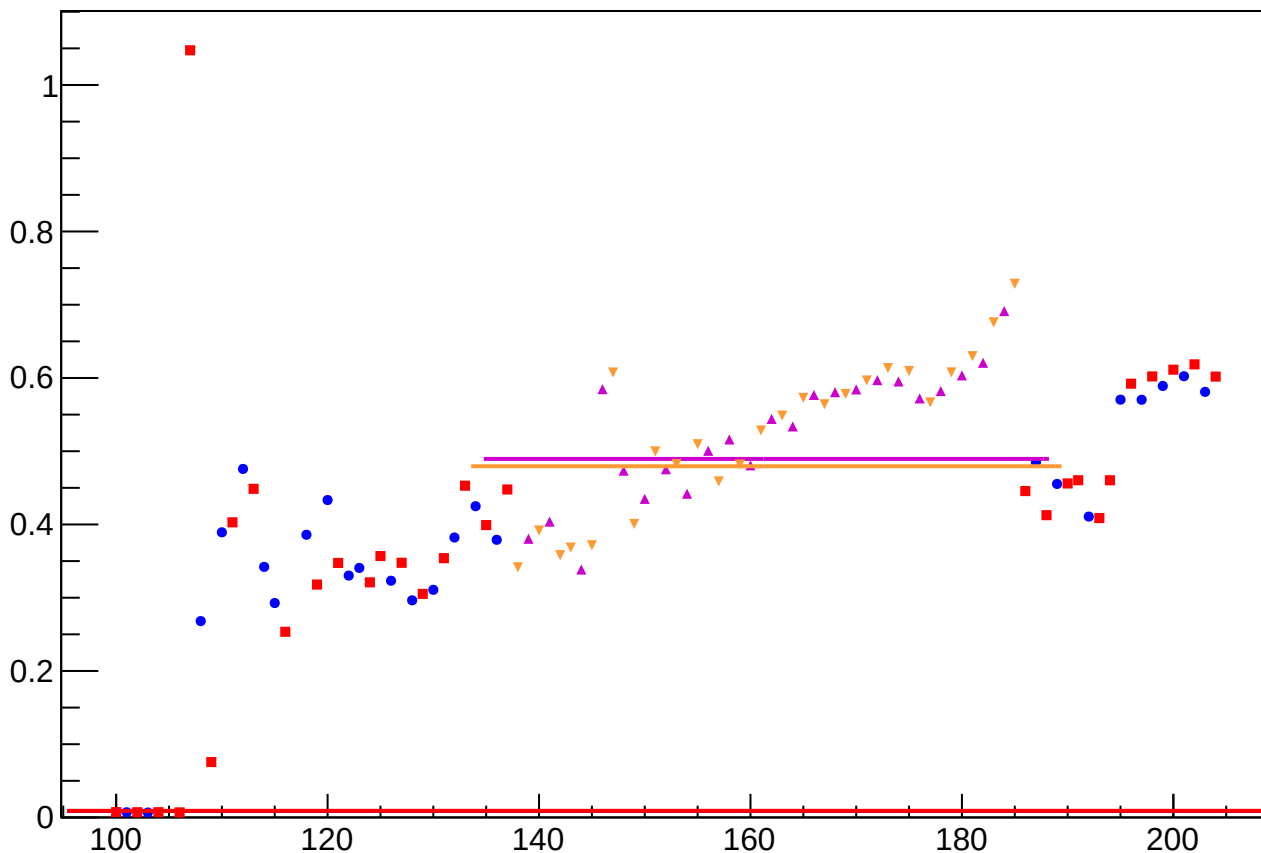
All: 0.578 $\pm$ 0.000 χ^2 /NDF: 12796004.1/102

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.959+/-0.000	χ^2/NDF : 3511779278726.4/24	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.374+/-0.000	χ^2/NDF : 13341877248694.7
Right Out: 376.861+/-0.000	χ^2/NDF : 9821537877269.8/29	In: 376.780+/-0.000	χ^2/NDF : 7115757919450.4/47
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.745+/-0.000	χ^2/NDF : 13691168784659.0
		All: 376.228+/-0.000	χ^2/NDF : 208145784995.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 19899830.7/24

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 22781647.6/29

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

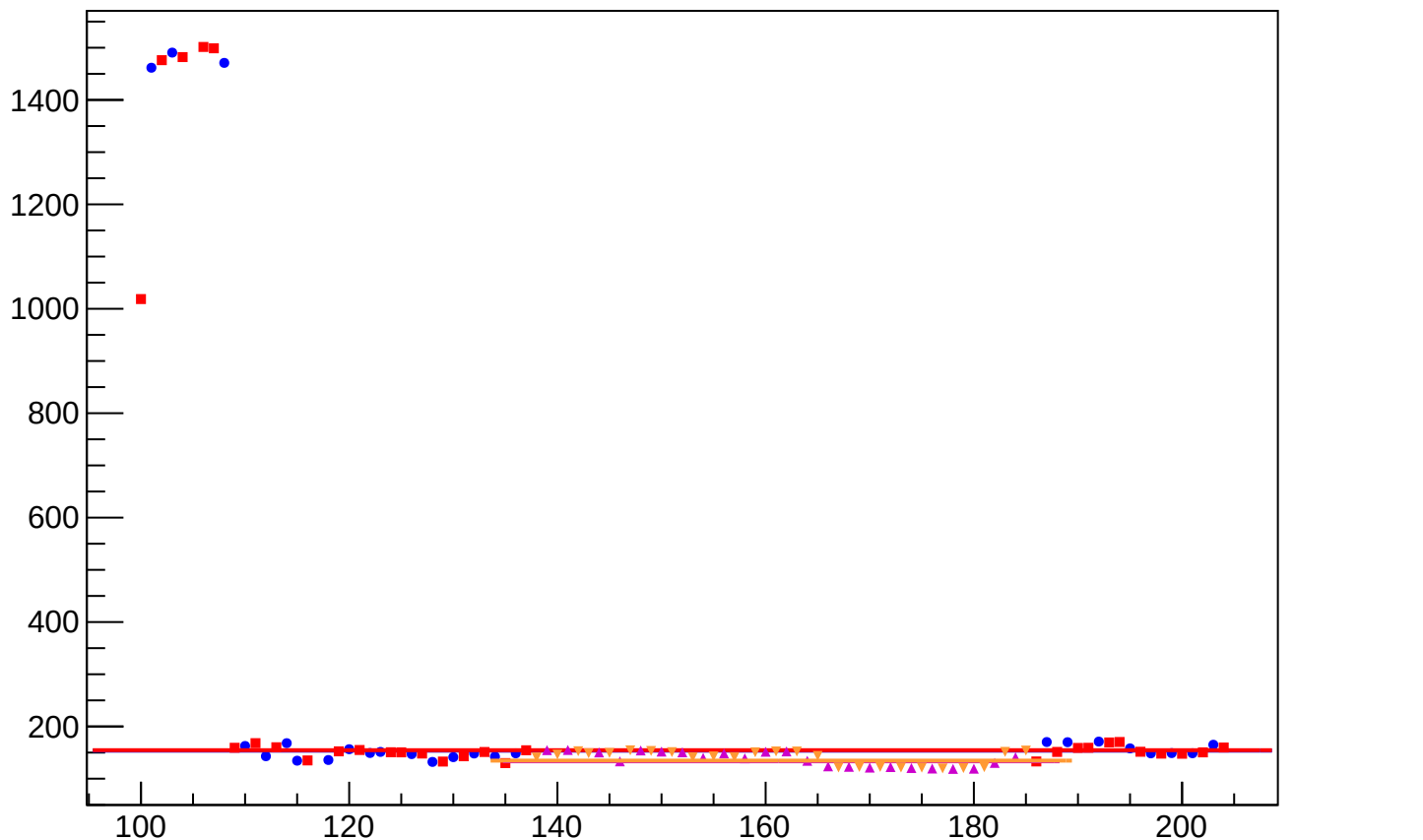
Right: 0.009+/-0.000 χ^2/NDF : 42681925.5/54

In: 0.011+/-0.000 χ^2/NDF :52669241.3/47

Out: 0.011+/-0.000 χ^2/NDF :57277715.8/54

All: 0.011+/-0.000 χ^2/NDF : 109946958.6/102

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.721+/-0.000

χ^2/NDF : 25609388091.3/24

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

Right: 154.189+/-0.000

χ^2/NDF : 60470918450.0/54

Right Out: 154.571+/-0.000

χ^2/NDF : 34855808820.8/29

In: 141.174+/-0.000

χ^2/NDF : 33646305771.0/47

Out: 143.093+/-0.000

χ^2/NDF : 43280241522.5/54

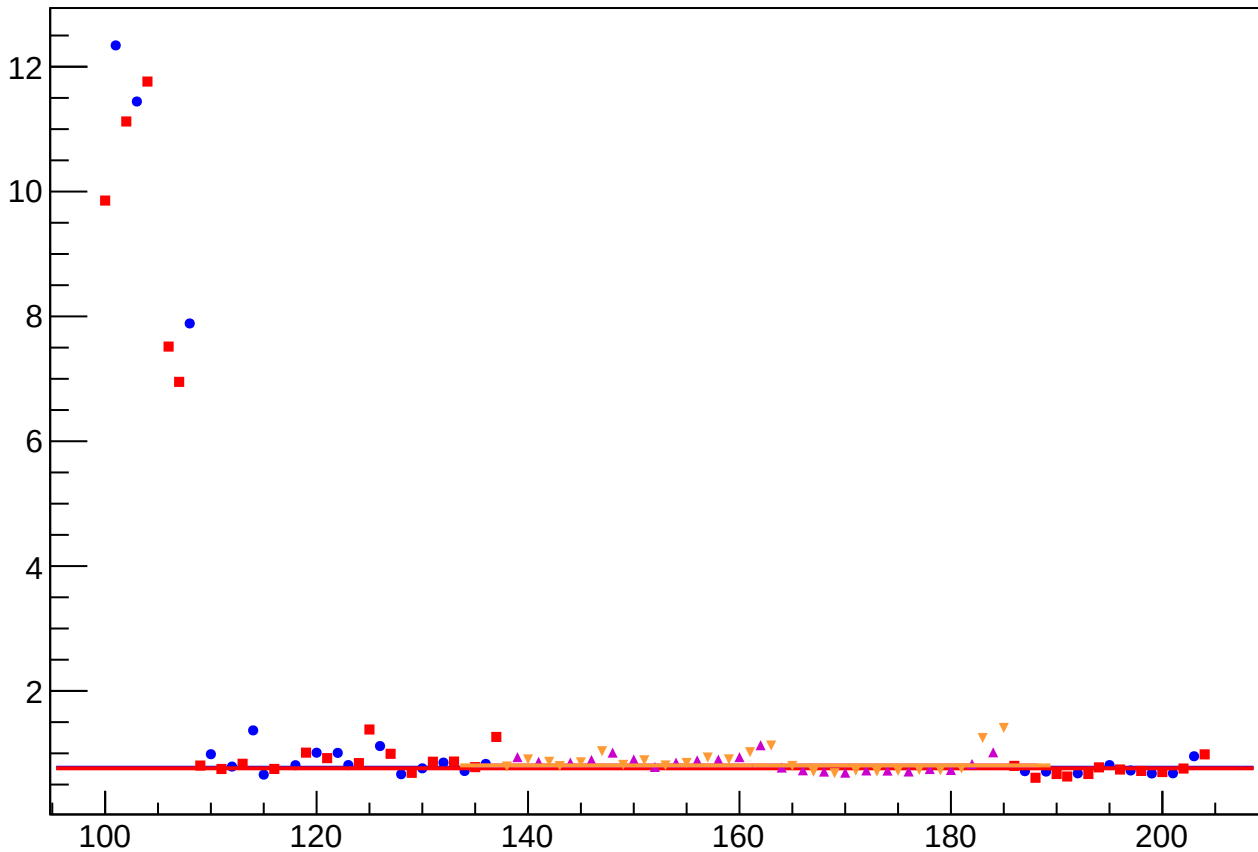
Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

All: 142.183+/-0.000

χ^2/NDF : 76998805368.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.769 $\pm$ 0.000 χ^2 /NDF: 2878123.5/24

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.760 $\pm$ 0.000 χ^2 /NDF: 3199691.9/29

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

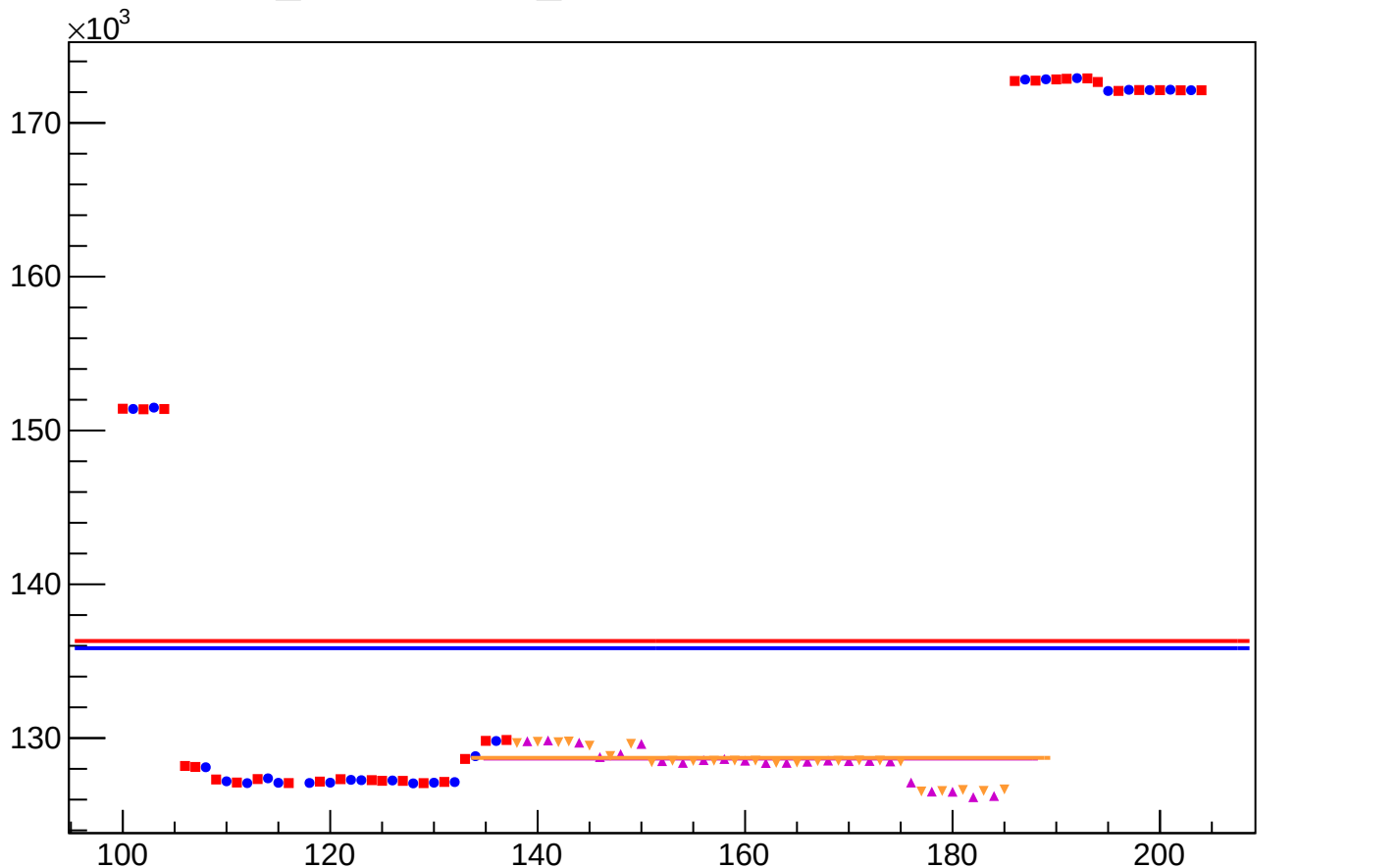
Right: 0.764 $\pm$ 0.000 χ^2 /NDF: 6079117.7/54

In: 0.791 $\pm$ 0.000 χ^2 /NDF:3379642.4/47

Out: 0.787 $\pm$ 0.000 χ^2 /NDF:3947273.4/54

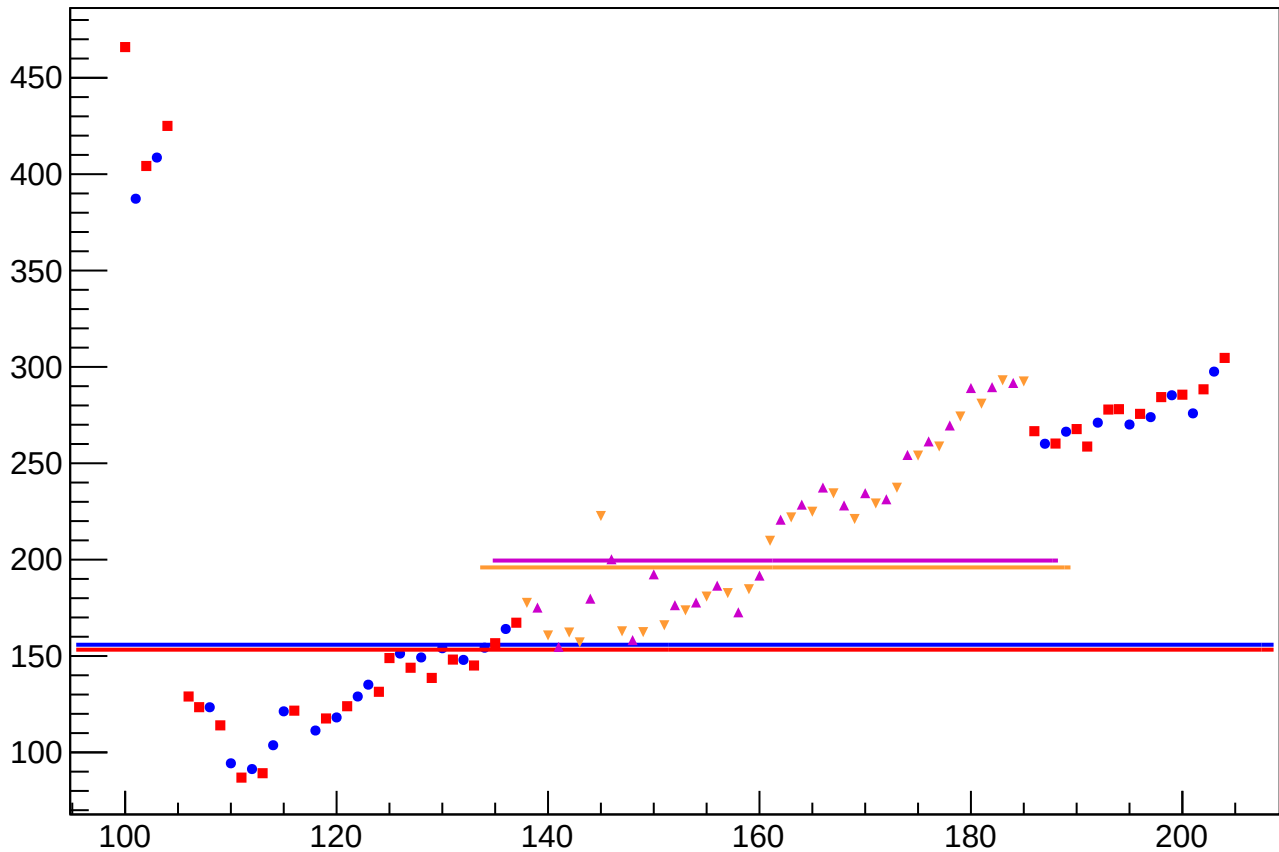
All: 0.789 $\pm$ 0.000 χ^2 /NDF: 7327561.4/102

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 135846.004 $\pm$ 0.050 χ^2 /NDF: 120435949476.2/24
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 136312.479 $\pm$ 0.045 χ^2 /NDF: 150855776987.3/29
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 136099.762 $\pm$ 0.033 χ^2 /NDF: 271339882695
 In: 132203.704 $\pm$ 0.035 χ^2 /NDF: 131403843109.1
 Out: 132617.026 $\pm$ 0.033 χ^2 /NDF: 164831963669.
 All: 132424.209 $\pm$ 0.024 χ^2 /NDF: 296311102

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 155.851 $\pm$ 0.035 χ^2 /NDF: 4044361.6/24

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 153.284 $\pm$ 0.032 χ^2 /NDF: 5039666.9/29

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

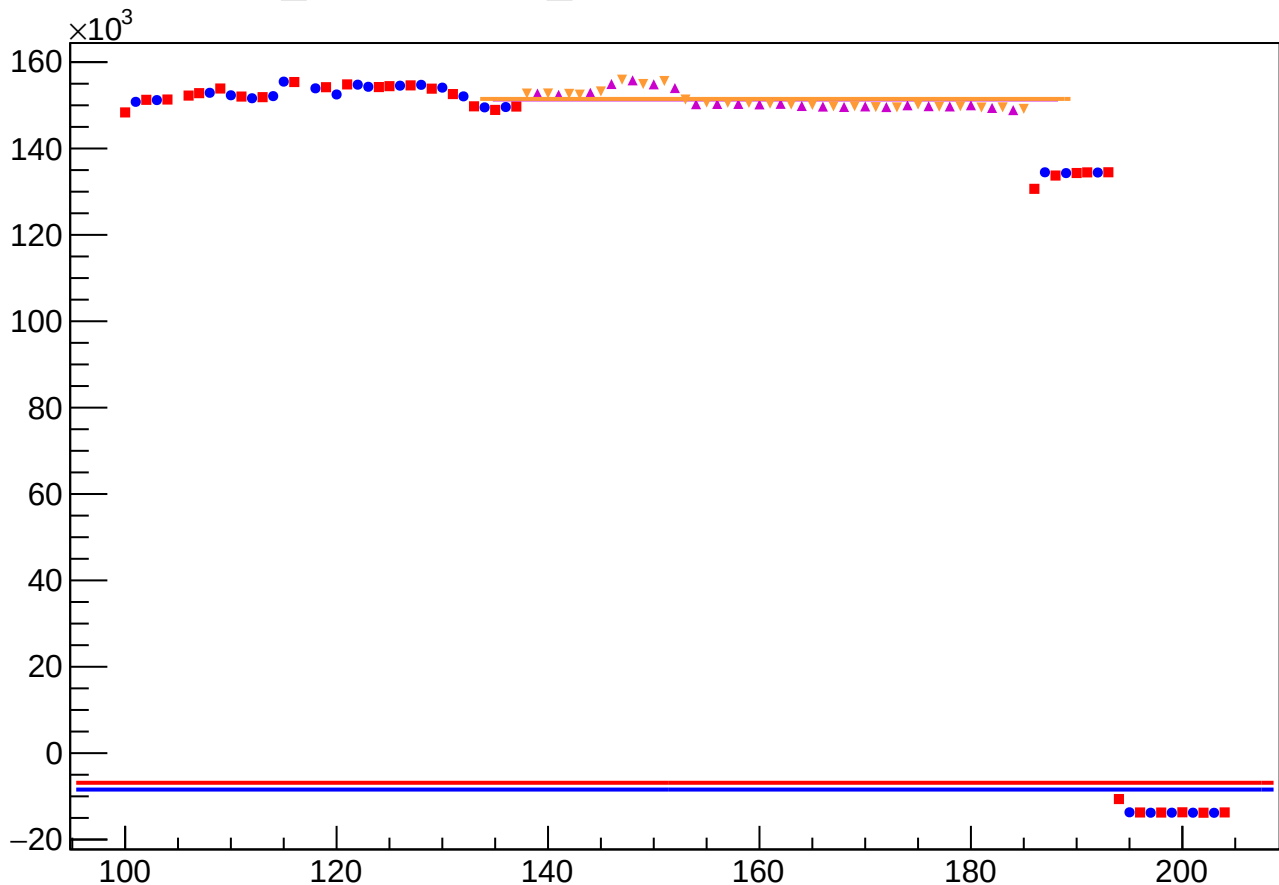
Right: 154.454 $\pm$ 0.024 χ^2 /NDF: 9086945.2/54

In: 178.022 $\pm$ 0.025 χ^2 /NDF:6007669.7/47

Out: 174.040 $\pm$ 0.023 χ^2 /NDF:7215634.6/54

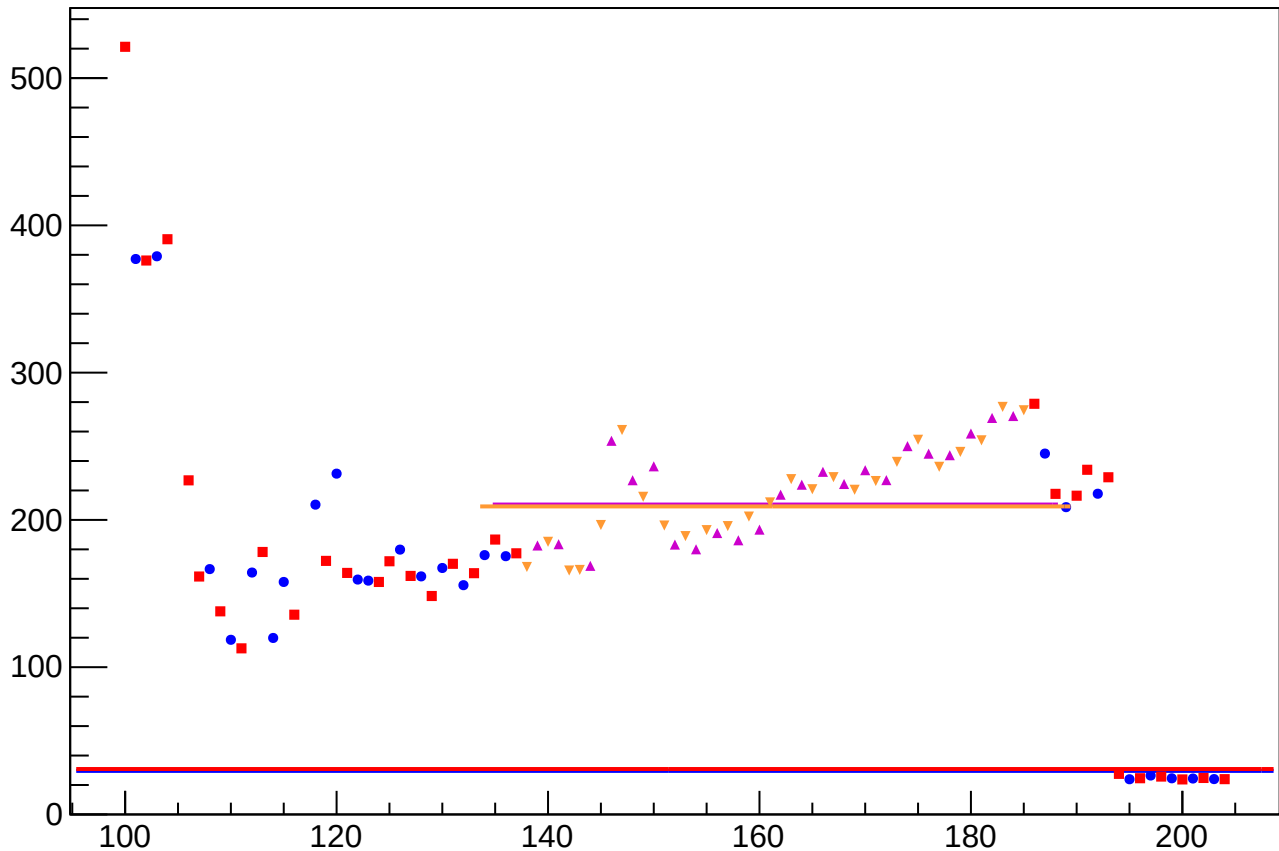
All: 175.898 $\pm$ 0.017 χ^2 /NDF: 13237278.2/100

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -8433.038 ± 0.012 $\chi^2/\text{NDF}: 5778815558680.6/24$ Left: 151423.440 ± 0.036 $\chi^2/\text{NDF}: 2913216467.1/24$
 Left Out: 151480.339 ± 0.049 $\chi^2/\text{NDF}: 1483692735.3/24$ Right: -7646.985 ± 0.009 $\chi^2/\text{NDF}: 1286092503400.0/24$
 Right Out: -6859.244 ± 0.012 $\chi^2/\text{NDF}: 7073672048768.4/29$ In: 23.721 ± 0.012 $\chi^2/\text{NDF}: 14997010885665.1/47$
 Left In: 151362.440 ± 0.051 $\chi^2/\text{NDF}: 1426782789.9/22$ Out: 2108.297 ± 0.012 $\chi^2/\text{NDF}: 16738815639309.0/29$
 All: 1066.938 ± 0.008 $\chi^2/\text{NDF}: 31751487438.0/29$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 29.588+/-0.009 χ^2/NDF : 11244833.4/24

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 30.849+/-0.009 χ^2/NDF : 13302899.9/29

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

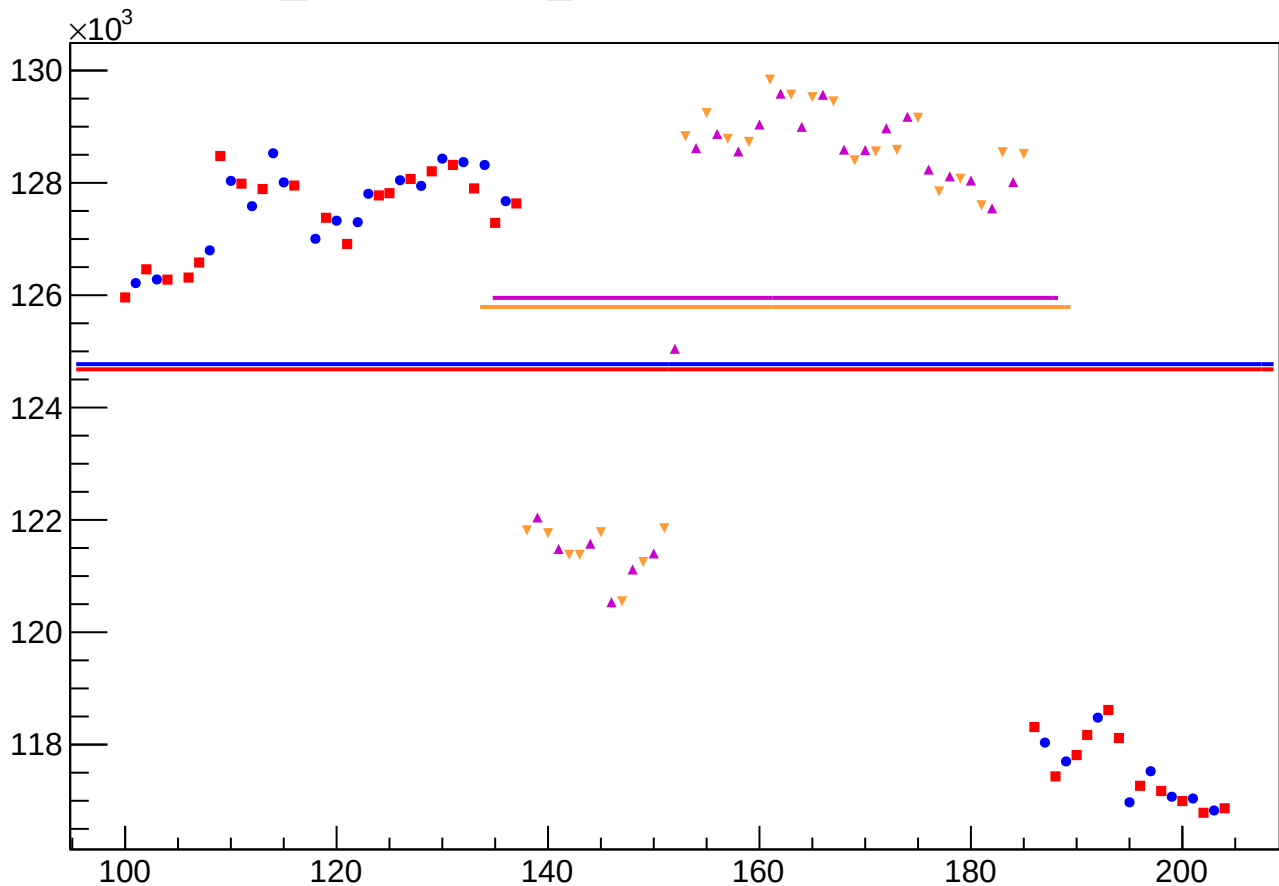
Right: 30.218+/-0.006 χ^2/NDF : 24558567.9/54

In: 39.159+/-0.008 χ^2/NDF : 35538006.2/47

Out: 40.948+/-0.008 χ^2/NDF : 38522049.7/54

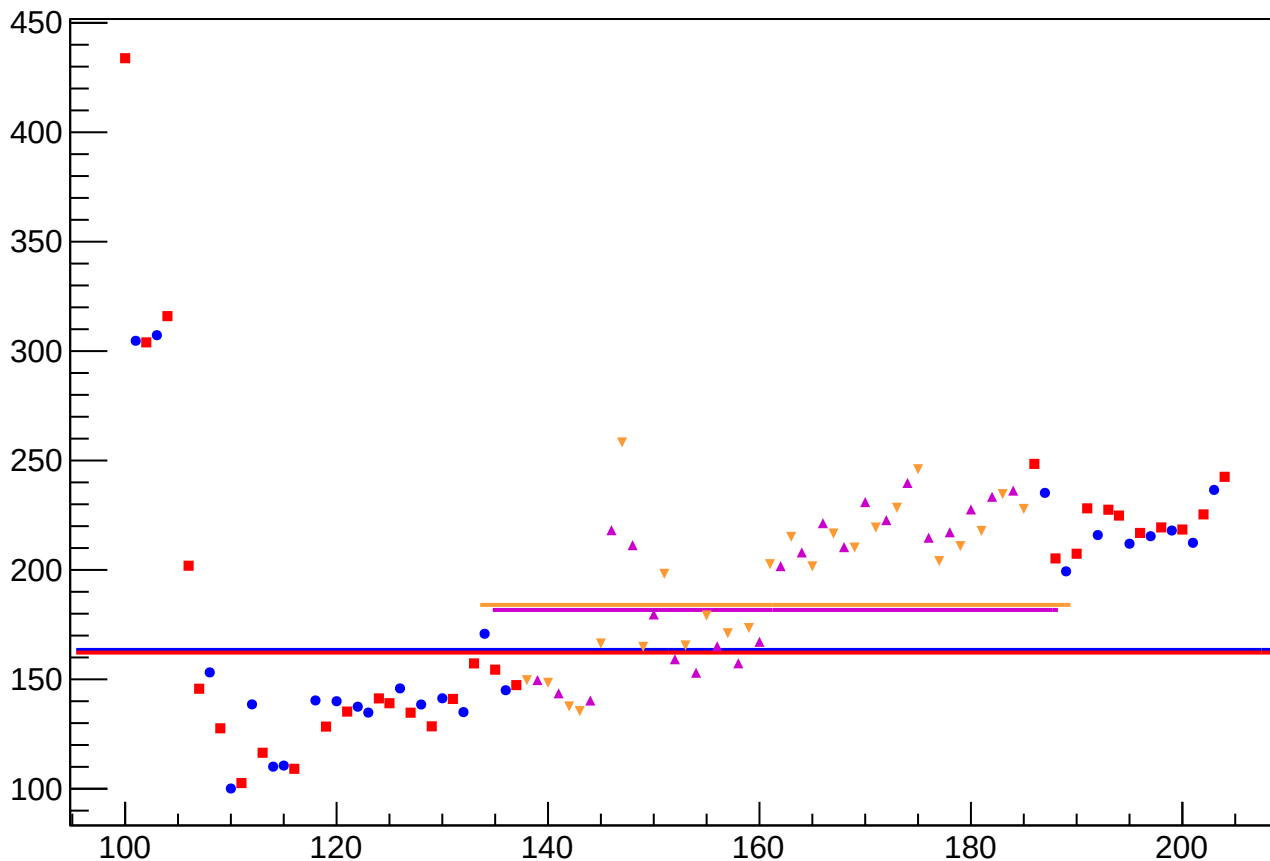
All: 40.054+/-0.006 χ^2/NDF : 74083119.9/102

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124772.654 $\pm$ 0.049	χ^2 /NDF: 9034334239.8/24	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/24
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 124723.055 $\pm$ 0.034	χ^2 /NDF: 19642845423.1/24
Right Out: 124680.580 $\pm$ 0.046	χ^2 /NDF: 10606638377.3/29	In: 125421.592 $\pm$ 0.033	χ^2 /NDF: 15190106872.1/24
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125256.824 $\pm$ 0.032	χ^2 /NDF: 17657131586.8/24
		All: 125335.541 $\pm$ 0.023	χ^2 /NDF: 328601608.0/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 163.441 $\pm$ 0.035 χ^2 /NDF: 1777697.1/24

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 162.228 $\pm$ 0.032 χ^2 /NDF: 2430250.4/29

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF: 1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

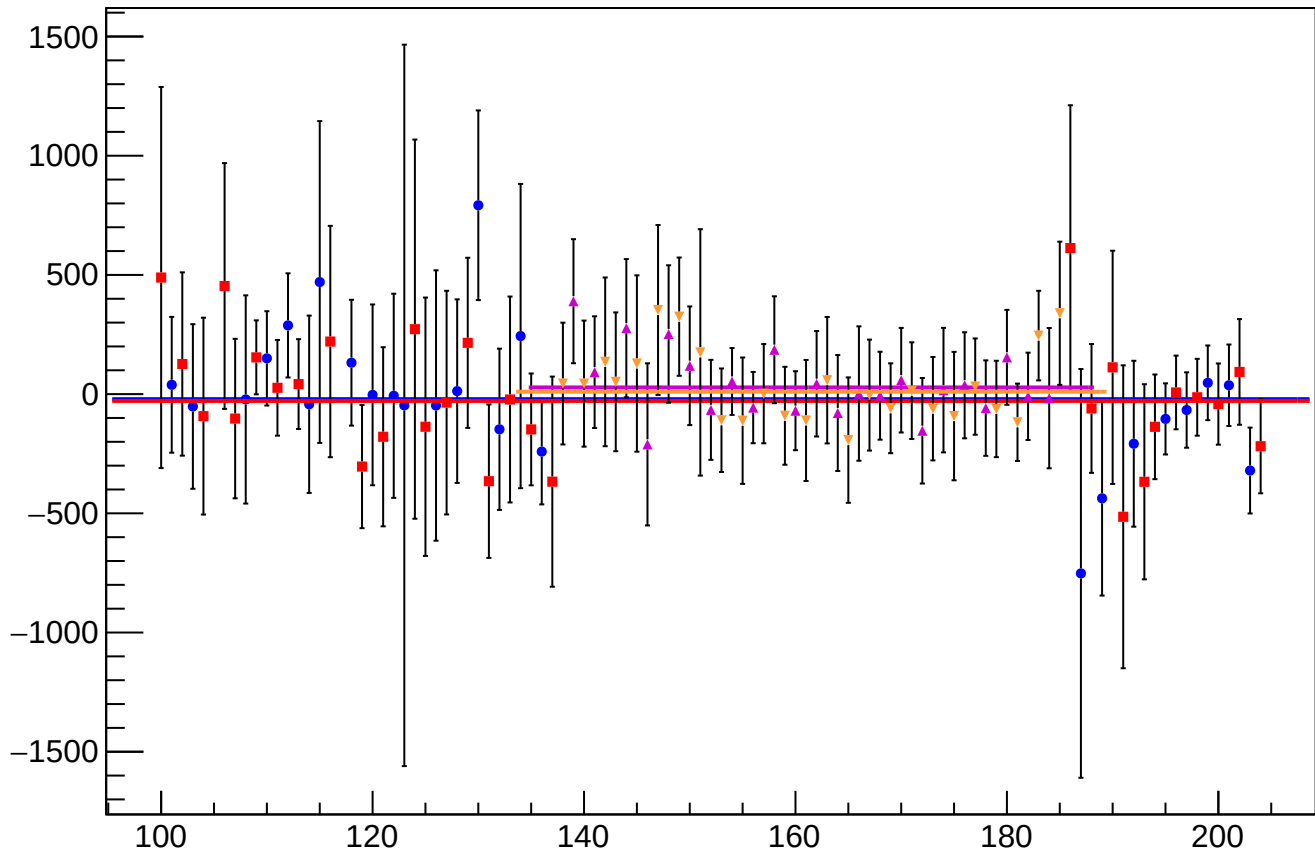
Right: 162.788 $\pm$ 0.024 χ^2 /NDF: 4208598.0/54

In: 173.492 $\pm$ 0.023 χ^2 /NDF: 3044467.8/47

Out: 173.550 $\pm$ 0.022 χ^2 /NDF: 3793263.4/54

All: 173.523 $\pm$ 0.016 χ^2 /NDF: 6837734.5/102

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -21.208 ± 52.463 $\chi^2/\text{NDF}: 14.7/24$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -28.514 ± 49.139 $\chi^2/\text{NDF}: 11.3/29$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

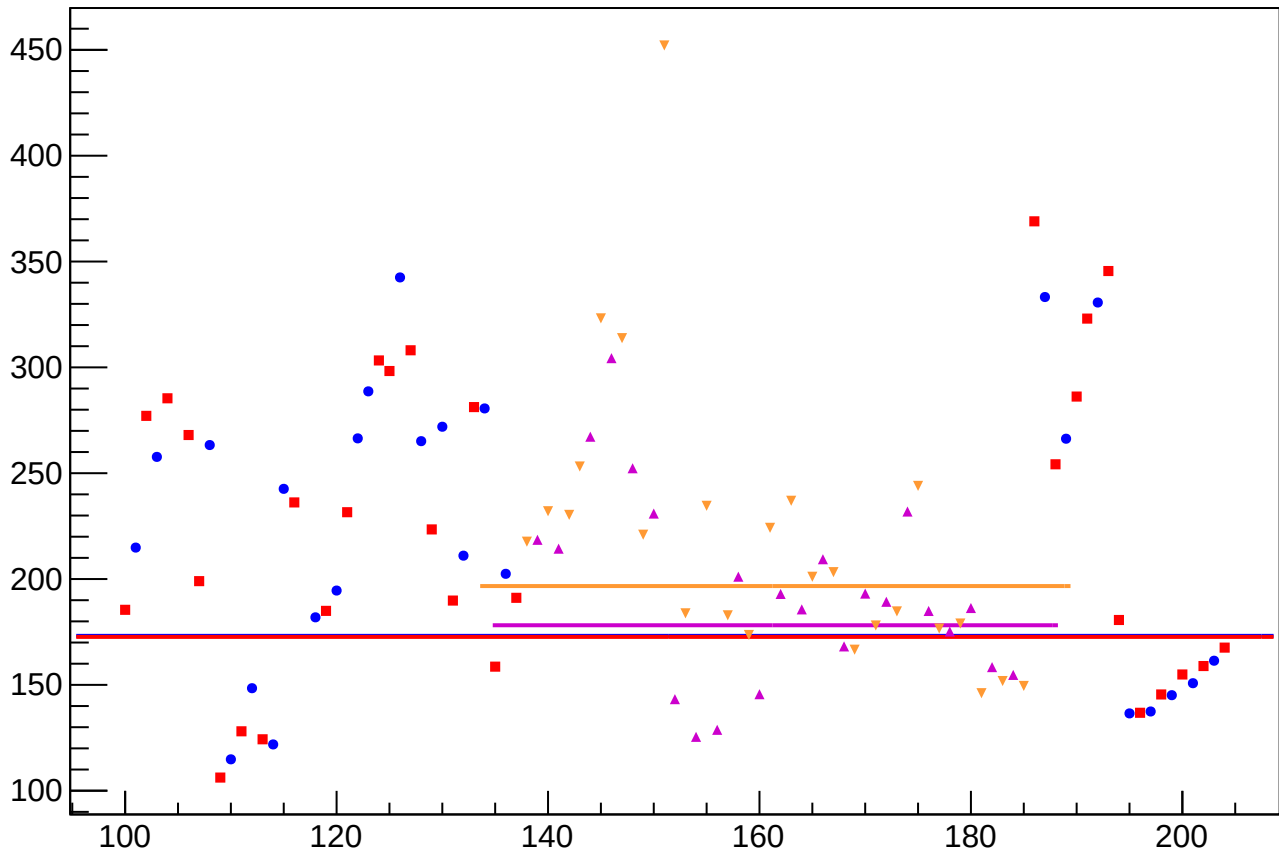
Right: -25.100 ± 35.864 $\chi^2/\text{NDF}: 26.0/54$

In: 7.400 ± 33.968 $\chi^2/\text{NDF}: 22.2/47$

Out: -8.559 ± 34.148 $\chi^2/\text{NDF}: 20.1/54$

All: -0.538 ± 24.082 $\chi^2/\text{NDF}: 42.4/102$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.156 $\pm$ 0.037 χ^2 /NDF: 2068387.2/24

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 172.667 $\pm$ 0.035 χ^2 /NDF: 2746481.5/29

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

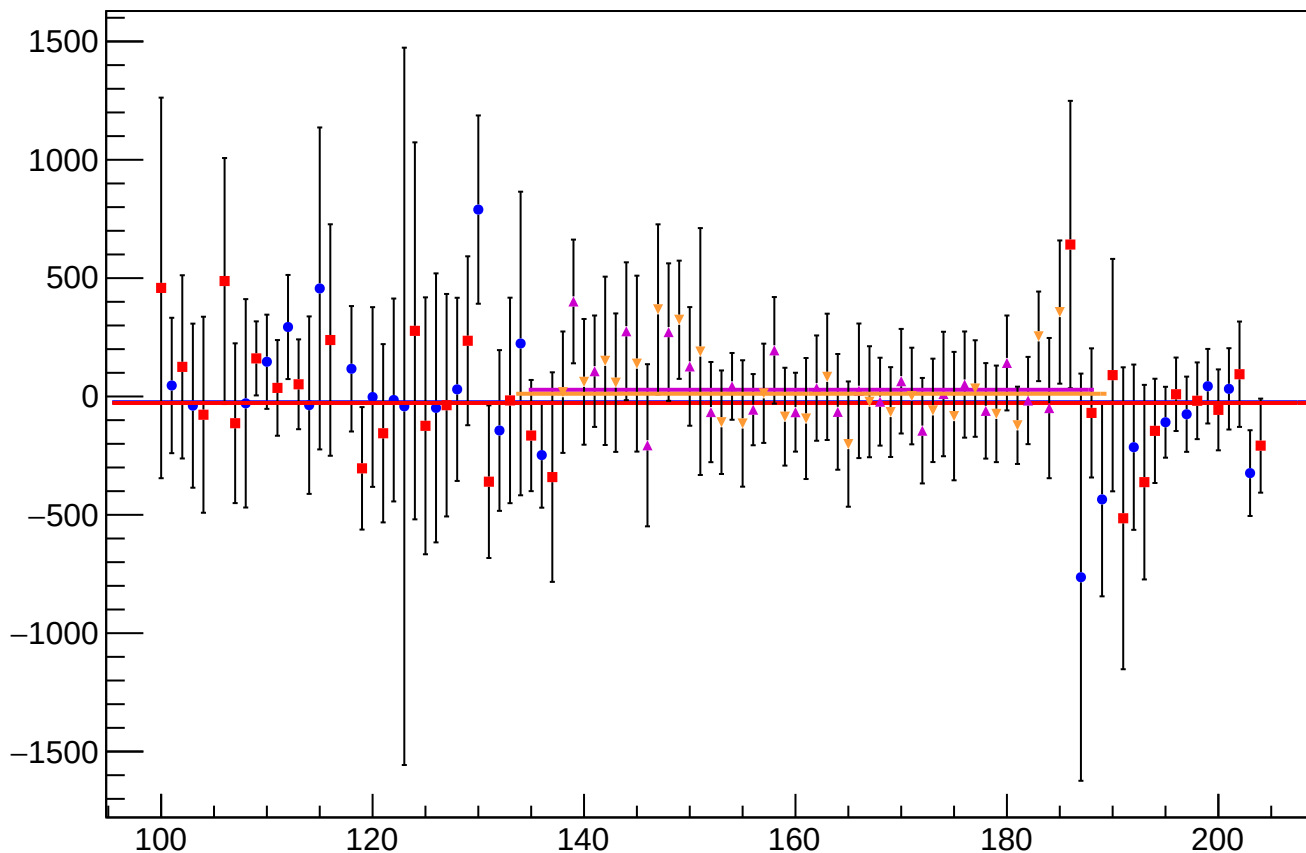
Right: 172.896 $\pm$ 0.025 χ^2 /NDF: 4814961.3/54

In: 176.066 $\pm$ 0.024 χ^2 /NDF:3697944.5/47

Out: 185.085 $\pm$ 0.024 χ^2 /NDF:4776186.6/54

All: 180.551 $\pm$ 0.017 χ^2 /NDF: 8544254.5/102

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -24.304 ± 52.721 χ^2/NDF : 14.7/24

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -27.394 ± 49.392 χ^2/NDF : 11.5/29

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

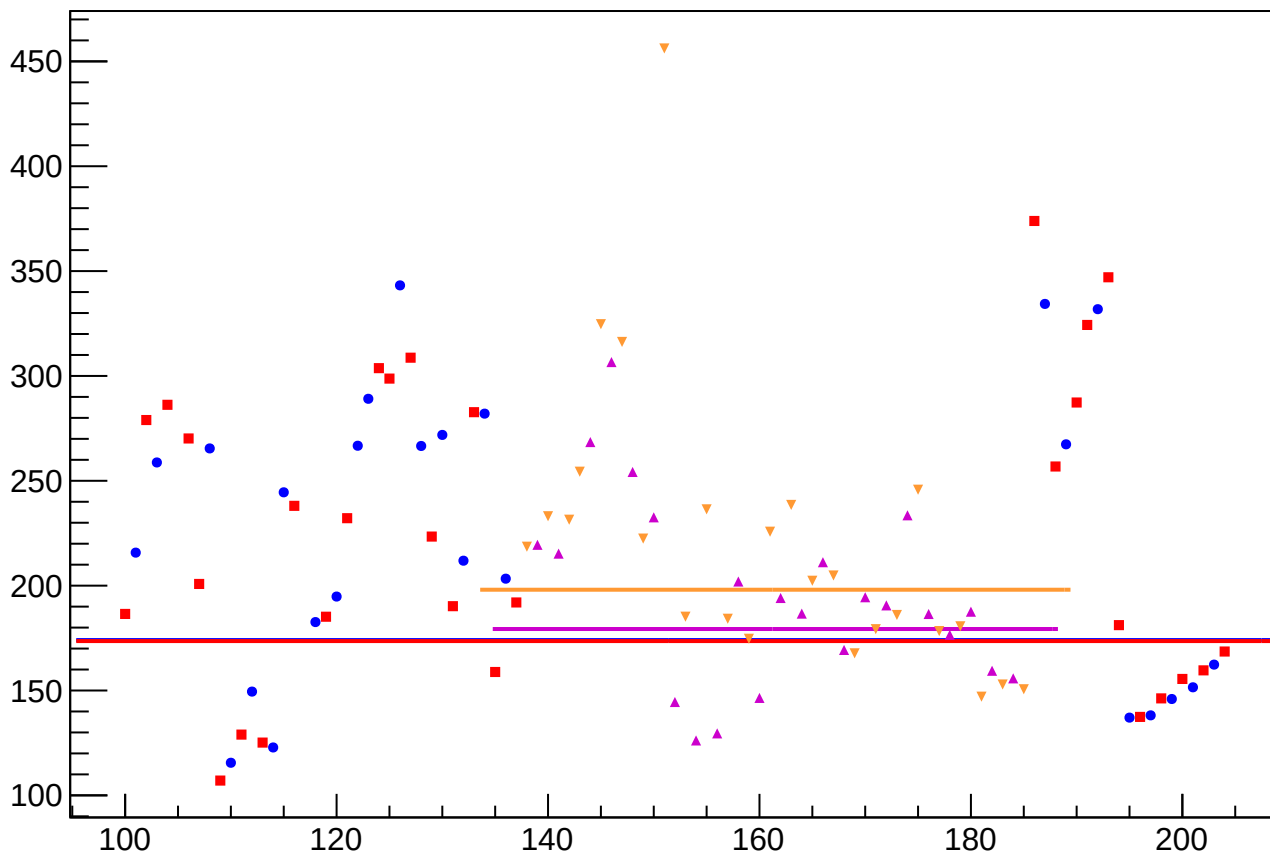
Right: -25.950 ± 36.045 χ^2/NDF : 26.2/54

In: 6.195 ± 34.167 χ^2/NDF : 22.3/47

Out: -7.329 ± 34.356 χ^2/NDF : 20.7/54

All: -0.530 ± 24.226 χ^2/NDF : 43.1/102

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.045 ± 0.037 $\chi^2/\text{NDF}: 2058784.3/24$

Left Out: 198.059 ± 0.034 $\chi^2/\text{NDF}: 1778526.5/24$

Right Out: 173.572 ± 0.035 $\chi^2/\text{NDF}: 2741095.5/29$

Left In: 179.324 ± 0.032 $\chi^2/\text{NDF}: 1618266.2/22$

Left: 188.094 ± 0.023 $\chi^2/\text{NDF}: 3560073.1/47$

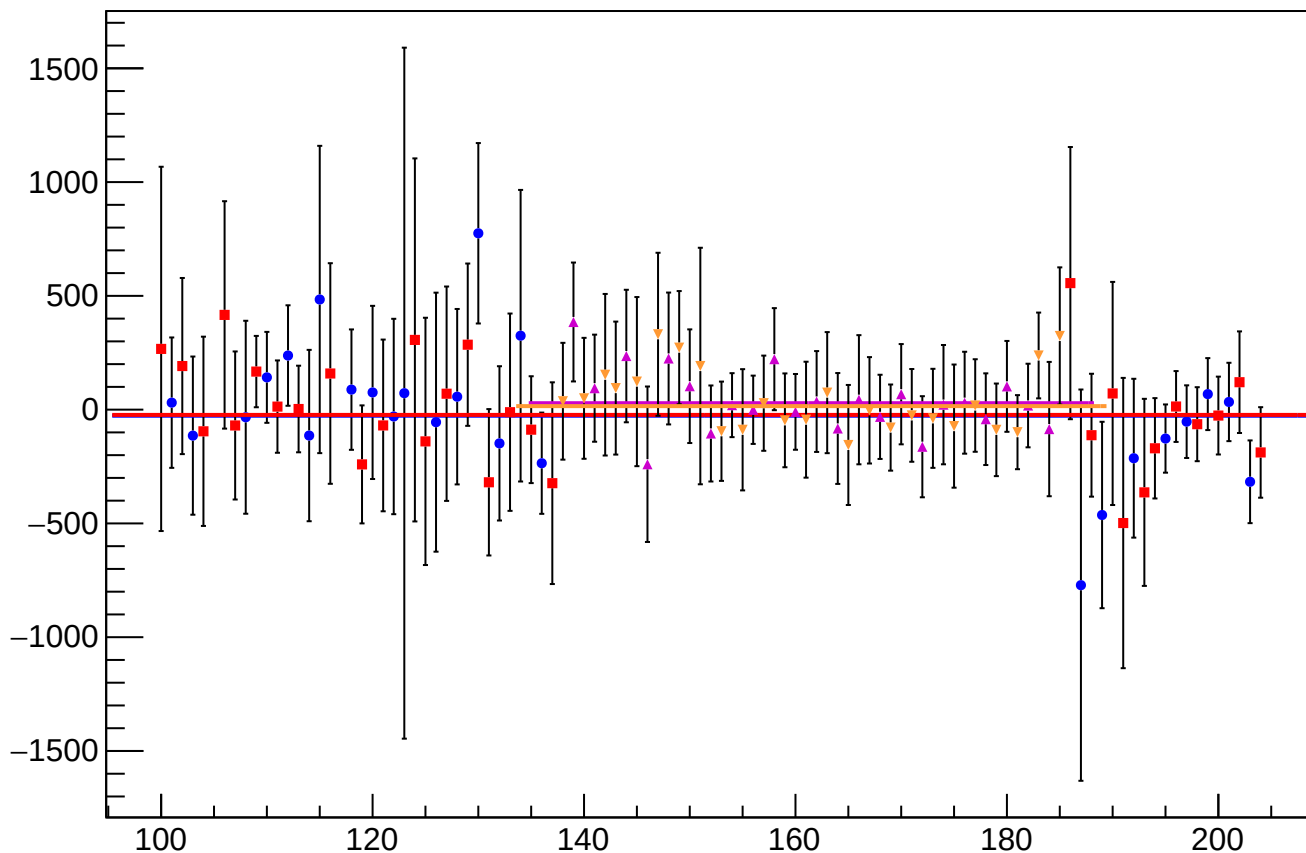
Right: 173.793 ± 0.025 $\chi^2/\text{NDF}: 4799965.5/54$

In: 177.107 ± 0.024 $\chi^2/\text{NDF}: 3688679.0/47$

Out: 186.212 ± 0.024 $\chi^2/\text{NDF}: 4773353.9/54$

All: 181.634 ± 0.017 $\chi^2/\text{NDF}: 8532650.9/102$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -26.589 ± 52.803 χ^2/NDF : 14.3/24

Left Out: 15.437 ± 47.695 χ^2/NDF : 7.0/24

Right Out: -23.130 ± 49.389 χ^2/NDF : 10.0/29

Left In: 28.277 ± 44.743 χ^2/NDF : 6.4/22

Left: 22.267 ± 32.632 χ^2/NDF : 13.4/47

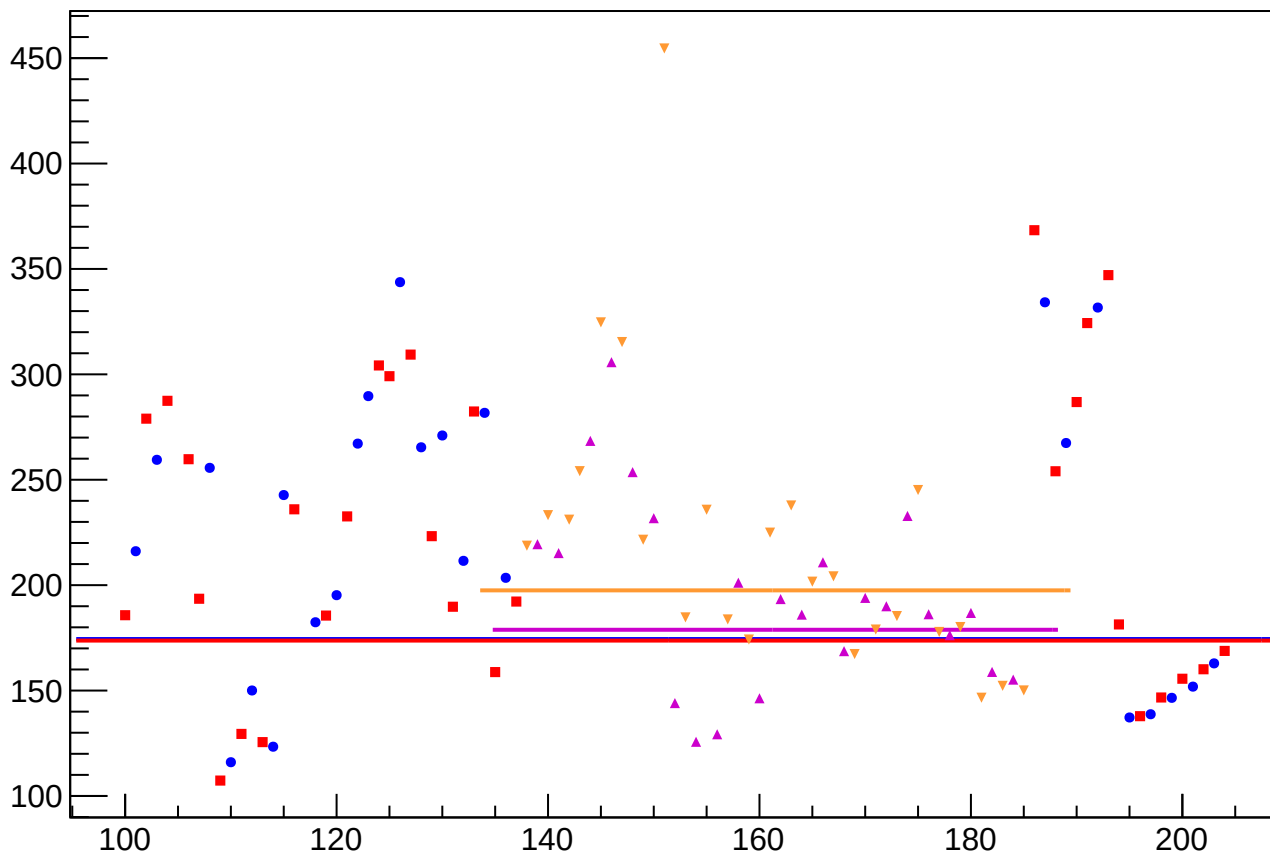
Right: -24.744 ± 36.070 χ^2/NDF : 24.3/54

In: 5.346 ± 34.136 χ^2/NDF : 21.3/47

Out: -3.174 ± 34.308 χ^2/NDF : 17.3/54

All: 1.108 ± 24.199 χ^2/NDF : 38.6/102

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.438 $\pm$ 0.037 χ^2 /NDF: 2027530.0/24

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 173.711 $\pm$ 0.035 χ^2 /NDF: 2696891.6/29

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

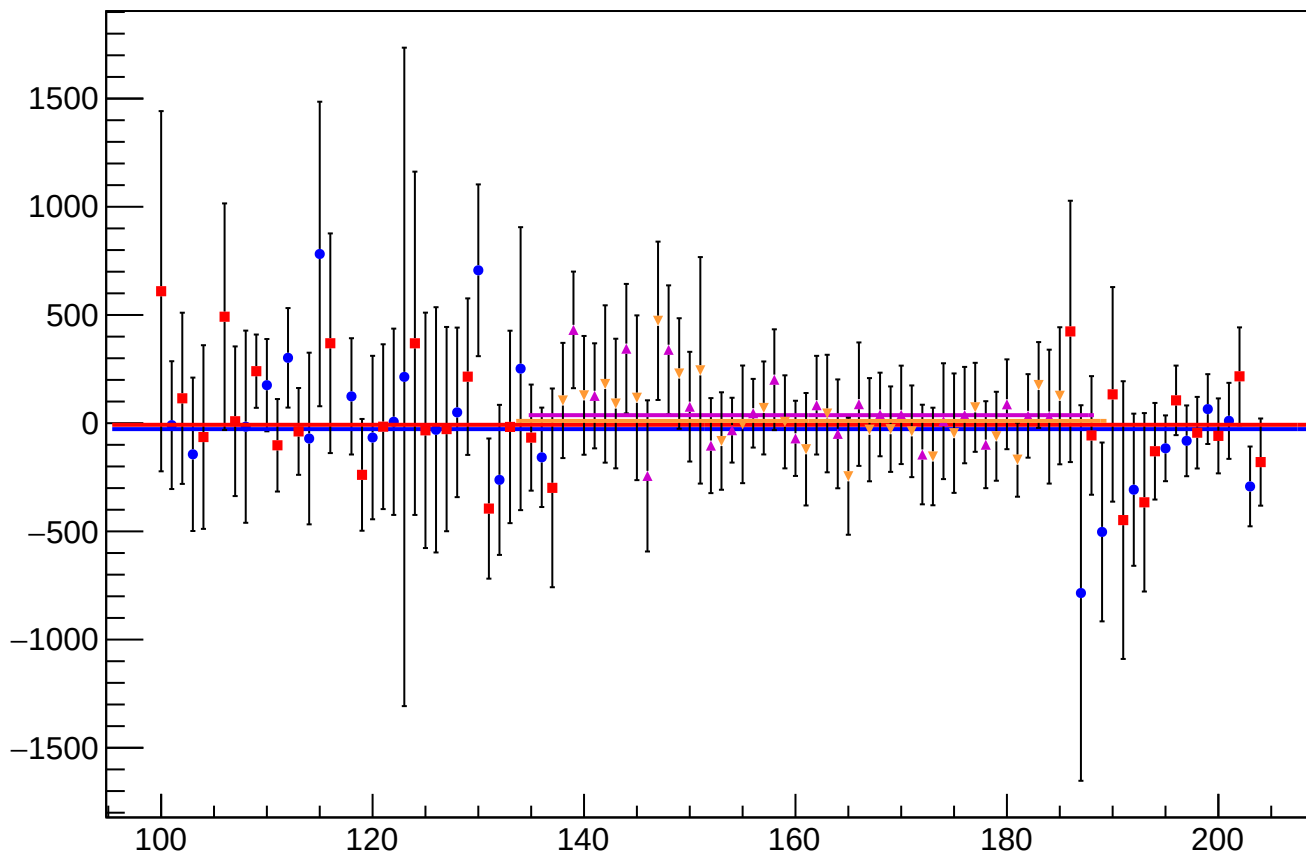
Right: 174.050 $\pm$ 0.026 χ^2 /NDF: 4724624.1/54

In: 176.998 $\pm$ 0.024 χ^2 /NDF:3657871.6/47

Out: 186.034 $\pm$ 0.024 χ^2 /NDF:4721777.6/54

All: 181.493 $\pm$ 0.017 χ^2 /NDF: 8449374.6/102

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -27.480 ± 54.054 $\chi^2/\text{NDF}: 14.8/24$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -7.451 ± 50.822 $\chi^2/\text{NDF}: 12.3/29$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

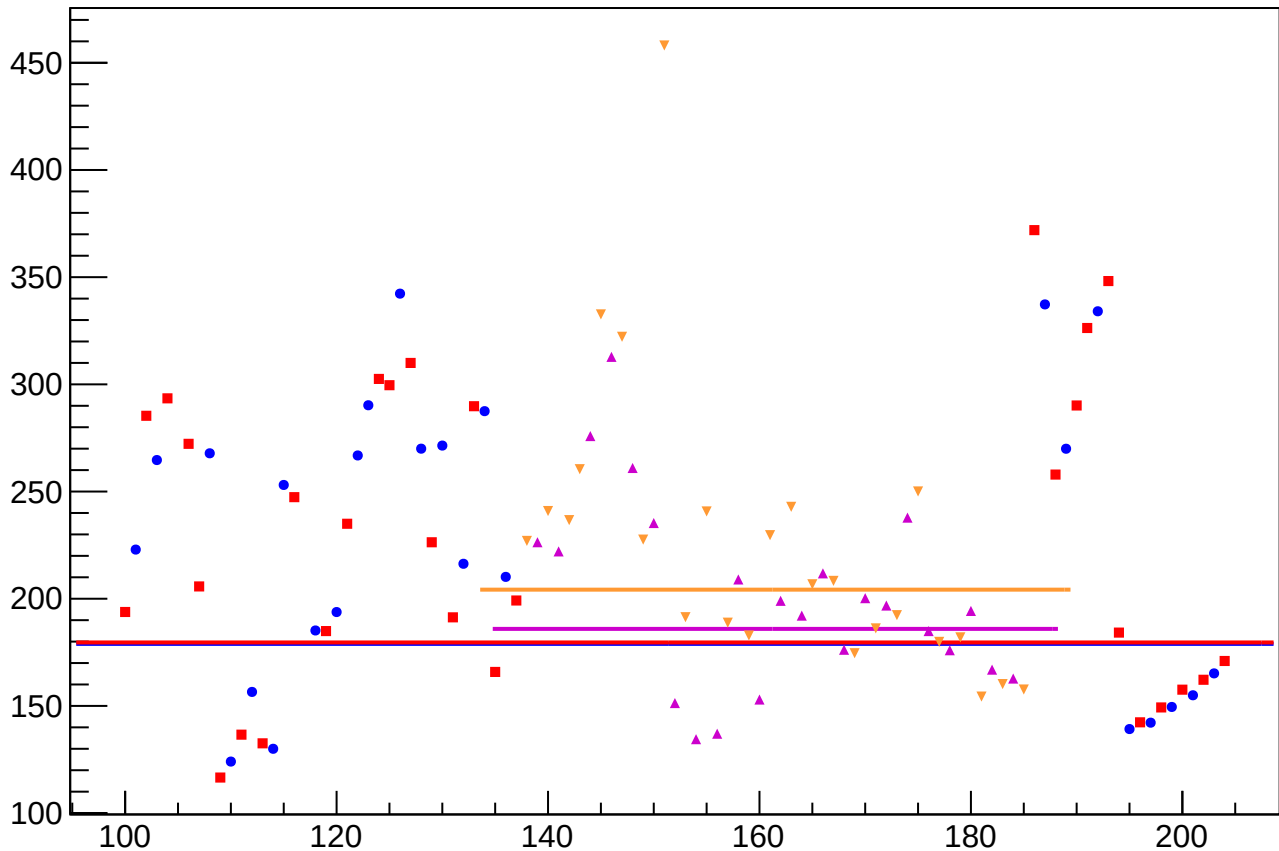
Right: -16.849 ± 37.026 $\chi^2/\text{NDF}: 27.1/54$

In: 9.673 ± 35.189 $\chi^2/\text{NDF}: 23.5/47$

Out: 1.834 ± 35.348 $\chi^2/\text{NDF}: 19.8/54$

All: 5.771 ± 24.938 $\chi^2/\text{NDF}: 43.3/102$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 178.935 $\pm$ 0.038 χ^2 /NDF: 1948273.2/24

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 179.603 $\pm$ 0.036 χ^2 /NDF: 2503015.5/29

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

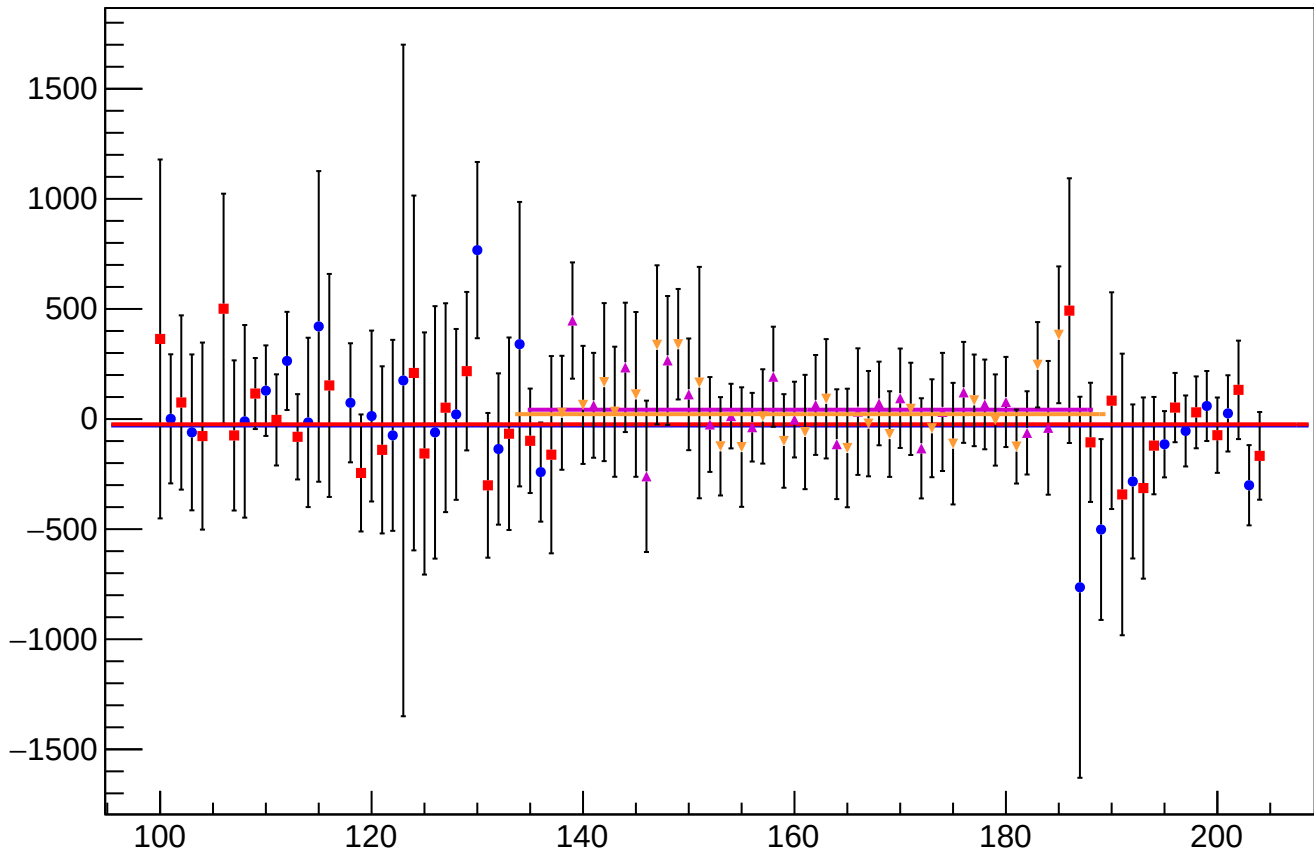
Right: 179.290 $\pm$ 0.026 χ^2 /NDF: 4451451.0/54

In: 182.966 $\pm$ 0.025 χ^2 /NDF:3427645.2/47

Out: 192.320 $\pm$ 0.025 χ^2 /NDF:4421233.8/54

All: 187.622 $\pm$ 0.018 χ^2 /NDF: 7919213.1/102

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -29.285 ± 53.372 $\chi^2/\text{NDF}: 13.8/24$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -23.814 ± 50.000 $\chi^2/\text{NDF}: 7.9/29$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

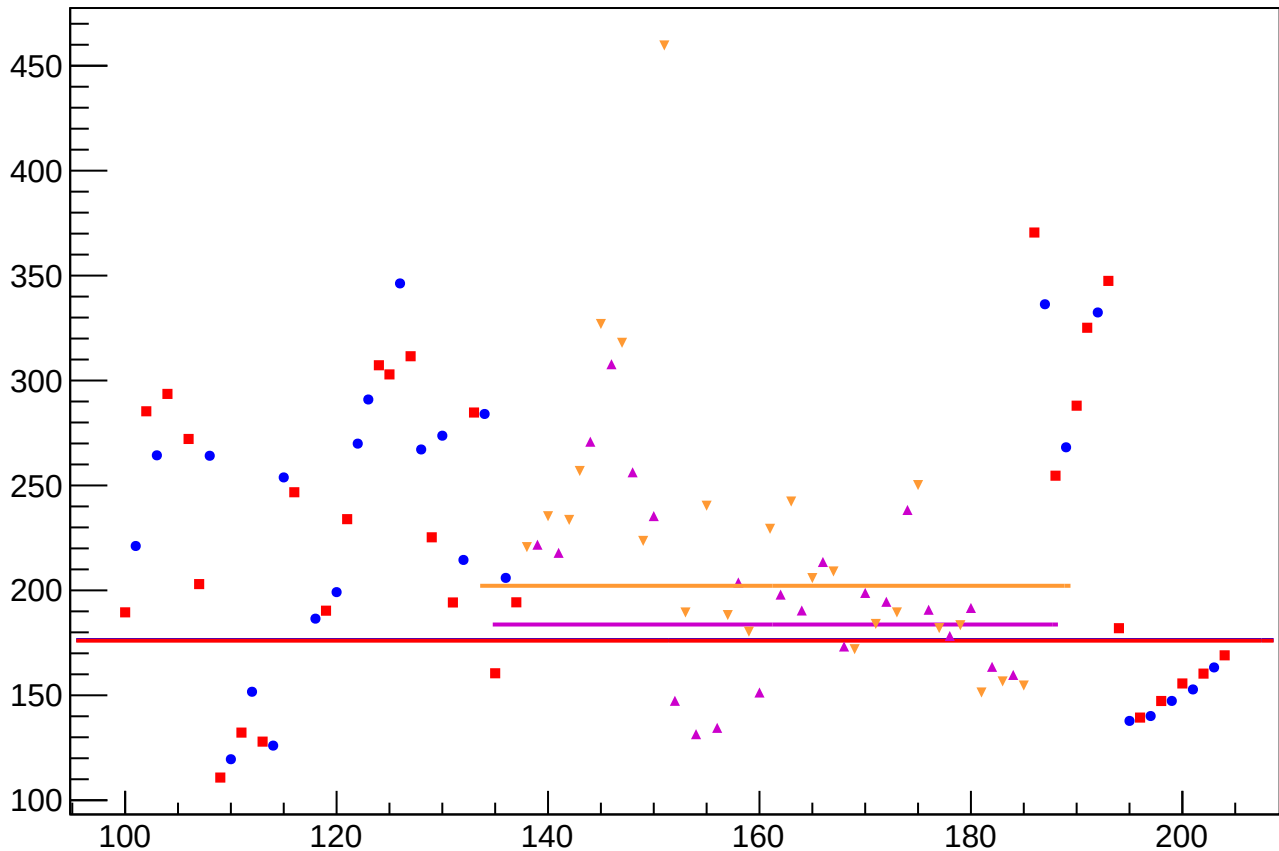
Right: -26.371 ± 36.489 $\chi^2/\text{NDF}: 21.6/54$

In: 11.979 ± 34.783 $\chi^2/\text{NDF}: 21.5/47$

Out: -0.225 ± 34.901 $\chi^2/\text{NDF}: 16.7/54$

All: 5.897 ± 24.637 $\chi^2/\text{NDF}: 38.3/102$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.347 ± 0.038 $\chi^2/\text{NDF}: 2031564.5/24$

Left Out: 202.186 ± 0.034 $\chi^2/\text{NDF}: 1696571.9/24$

Right Out: 176.048 ± 0.035 $\chi^2/\text{NDF}: 2669991.6/29$

Left In: 183.732 ± 0.032 $\chi^2/\text{NDF}: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/\text{NDF}: 3344580.1/47$

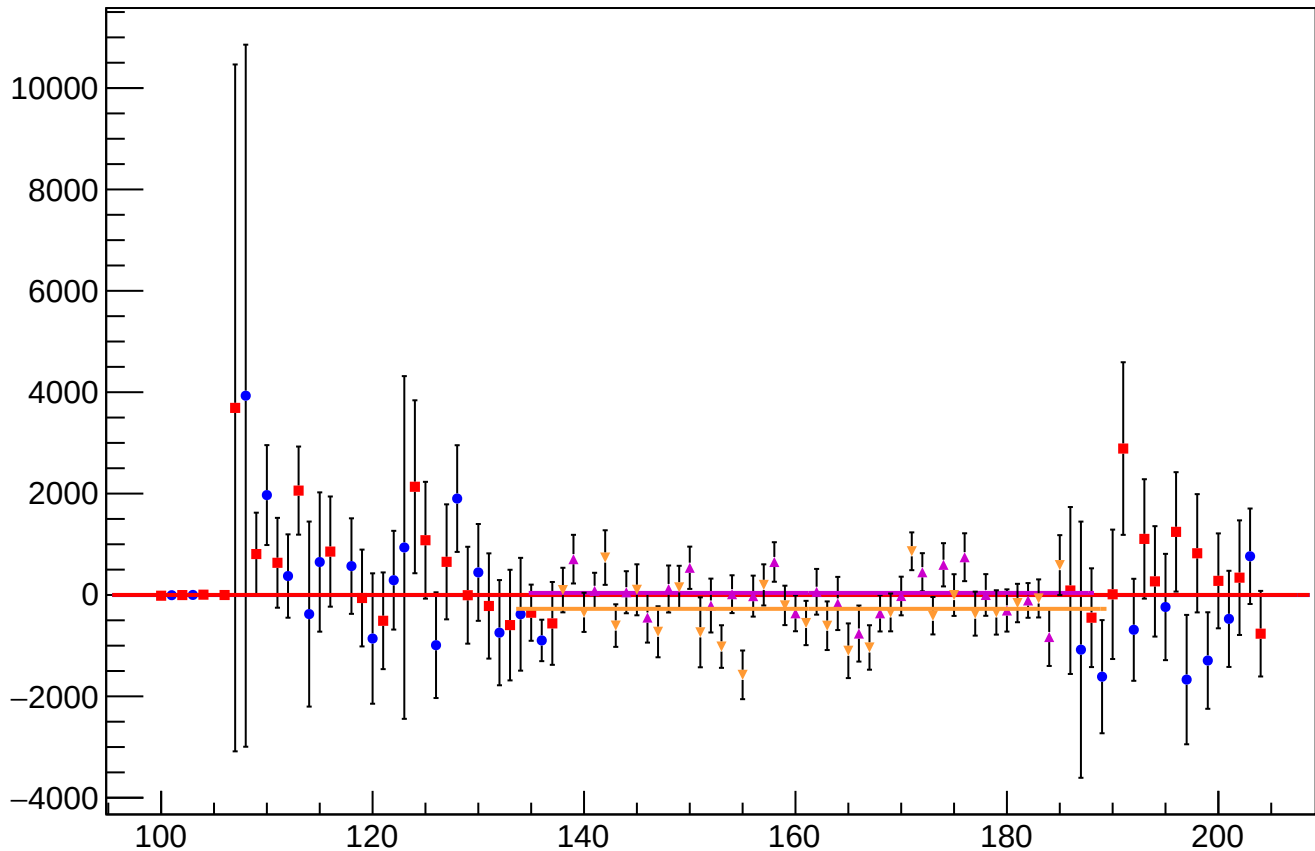
Right: 176.188 ± 0.026 $\chi^2/\text{NDF}: 4701589.6/54$

In: 180.596 ± 0.025 $\chi^2/\text{NDF}: 3549522.1/47$

Out: 189.451 ± 0.025 $\chi^2/\text{NDF}: 4646834.6/54$

All: 185.008 ± 0.017 $\chi^2/\text{NDF}: 8260950.9/102$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.551 ± 2.251 χ^2/NDF : 24.1/24

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.742 ± 2.111 χ^2/NDF : 24.9/29

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

Right: -0.331 ± 1.540 χ^2/NDF : 49.6/54

In: -1.523 ± 2.251 χ^2/NDF : 44.5/47

Out: 0.580 ± 2.110 χ^2/NDF : 73.1/54

All: -0.404 ± 1.540 χ^2/NDF : 118.2/102

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.486+/-0.002 χ^2/NDF : 21476497.6/24

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.471+/-0.001 χ^2/NDF : 25073263.2/29

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

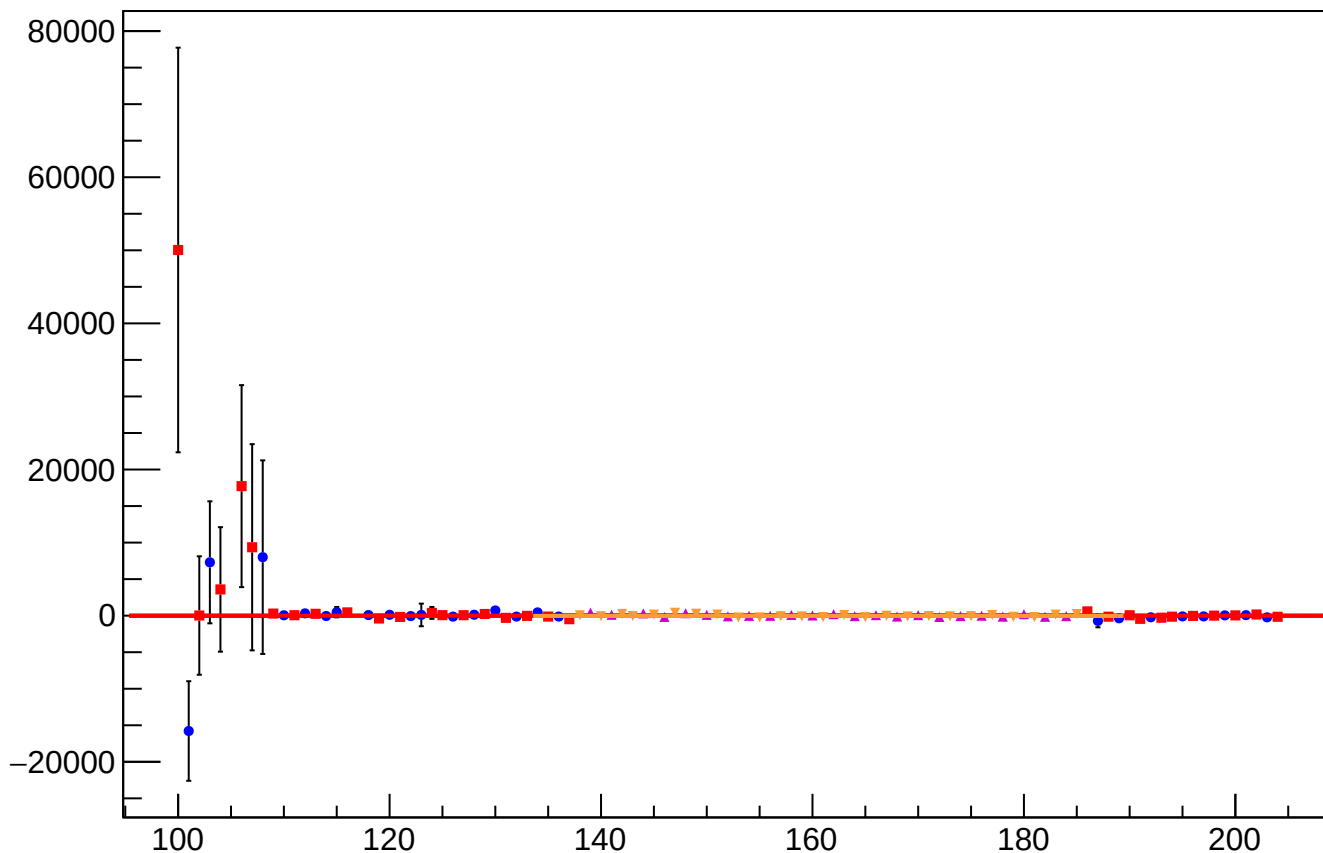
Right: 2.478+/-0.001 χ^2/NDF : 46549810.8/54

In: 2.724+/-0.002 χ^2/NDF : 55394779.4/47

Out: 2.687+/-0.001 χ^2/NDF : 61183512.5/54

All: 2.704+/-0.001 χ^2/NDF : 116578571.5/102

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -7.310 ± 58.910 $\chi^2/\text{NDF}: 17.1/24$

Left Out: -39.036 ± 49.576 $\chi^2/\text{NDF}: 9.1/24$

Right Out: 1.292 ± 56.013 $\chi^2/\text{NDF}: 17.7/29$

Left In: 28.062 ± 48.032 $\chi^2/\text{NDF}: 9.6/22$

Left: -4.426 ± 34.497 $\chi^2/\text{NDF}: 19.7/47$

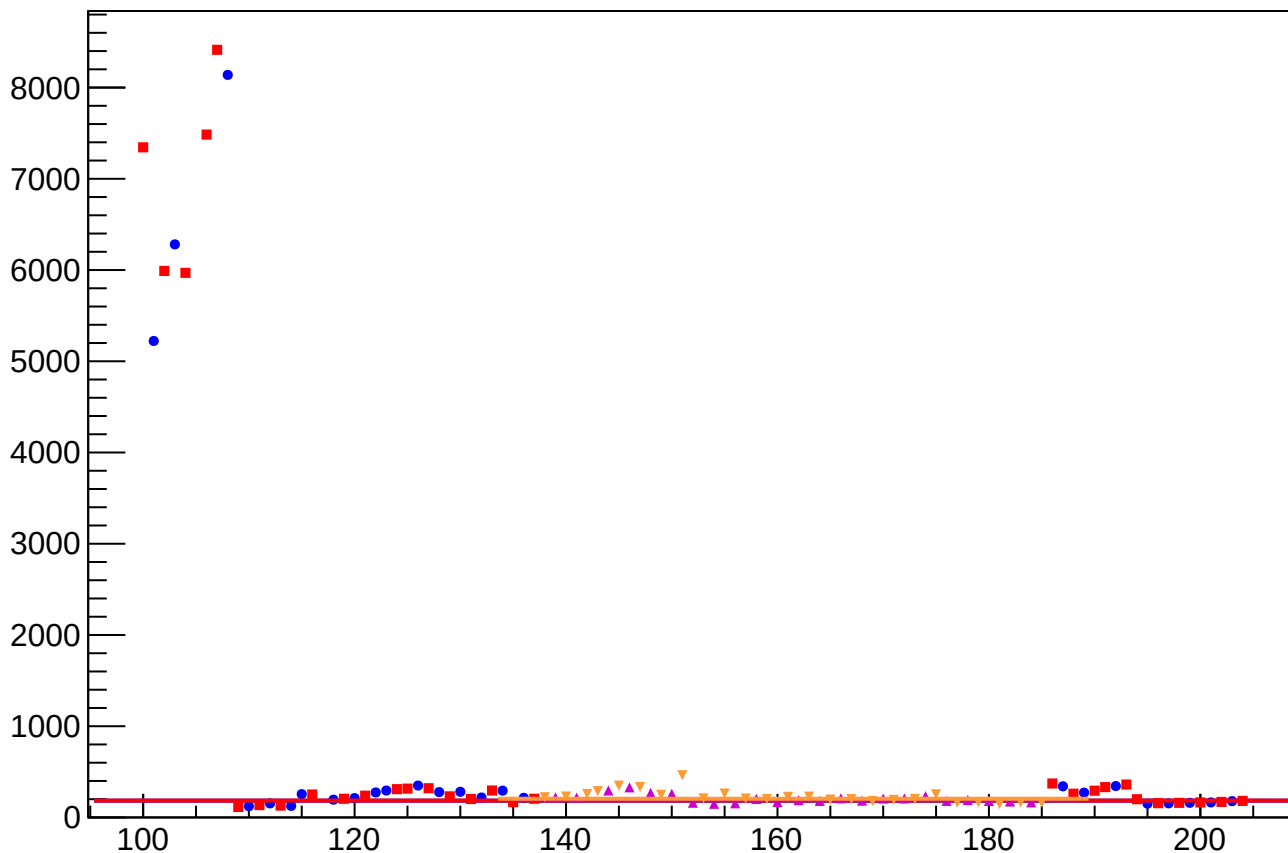
Right: -2.793 ± 40.593 $\chi^2/\text{NDF}: 34.9/54$

In: 13.937 ± 37.226 $\chi^2/\text{NDF}: 26.9/47$

Out: -21.321 ± 37.124 $\chi^2/\text{NDF}: 27.2/54$

All: -3.741 ± 26.287 $\chi^2/\text{NDF}: 54.5/102$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 183.820 $\pm$ 0.042 χ^2 /NDF: 4481416.4/24

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 185.336 $\pm$ 0.040 χ^2 /NDF: 5330820.6/29

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

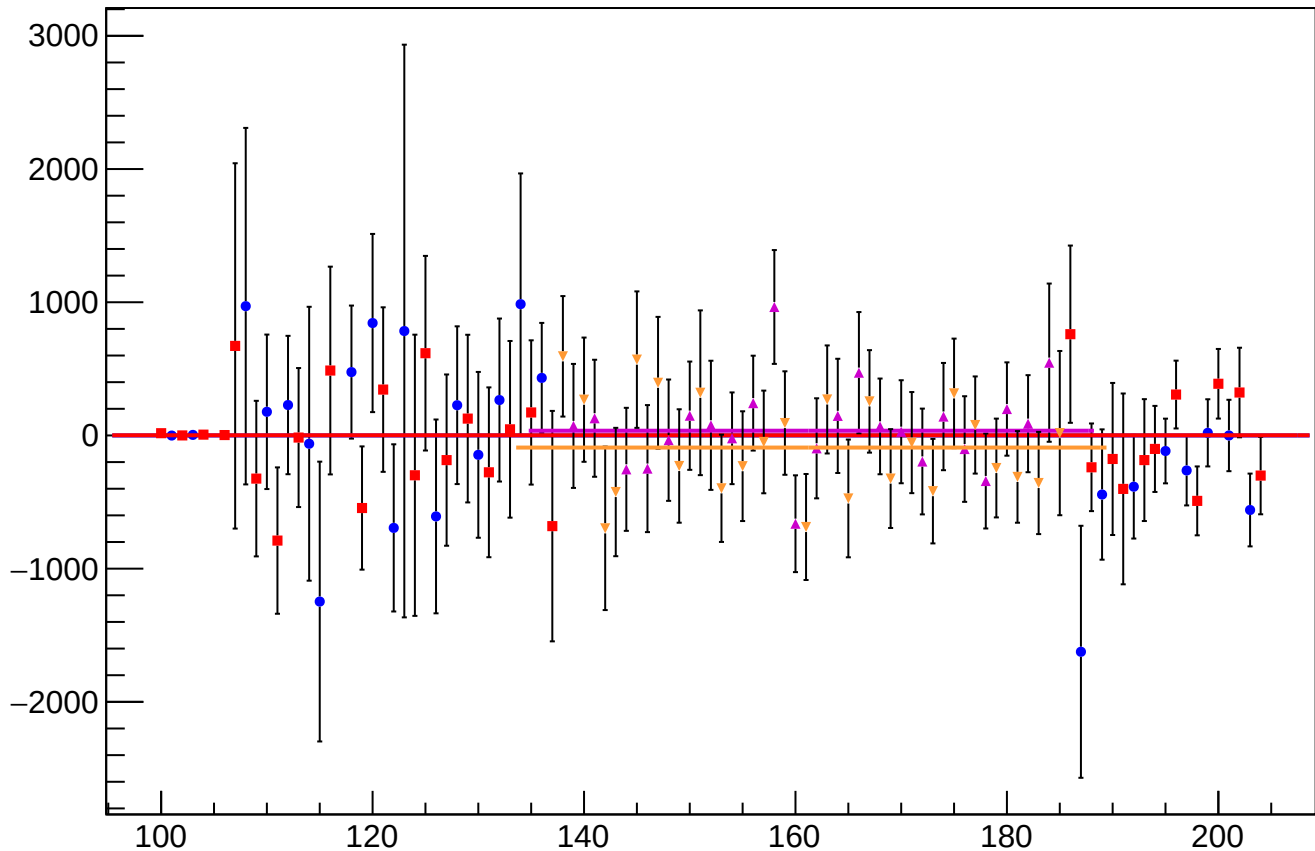
Right: 184.617 $\pm$ 0.029 χ^2 /NDF: 9812932.5/54

In: 189.705 $\pm$ 0.026 χ^2 /NDF:5694104.2/47

Out: 196.426 $\pm$ 0.026 χ^2 /NDF:7428118.7/54

All: 193.075 $\pm$ 0.019 χ^2 /NDF: 13154916.6/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.199 ± 1.736 χ^2/NDF : 20.3/24

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.319 ± 1.622 χ^2/NDF : 21.0/29

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

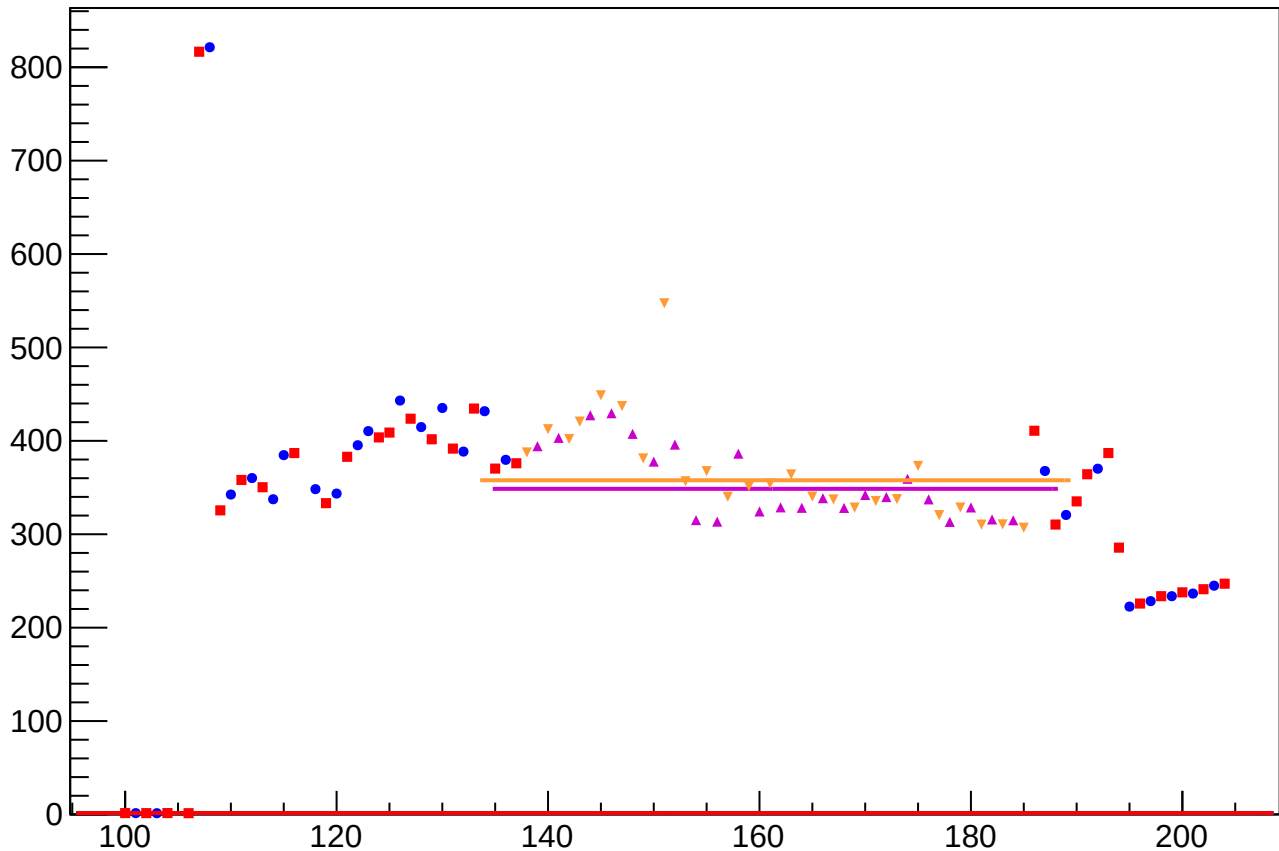
Right: 0.612 ± 1.185 χ^2/NDF : 41.7/54

In: -0.183 ± 1.736 χ^2/NDF : 33.9/47

Out: 1.285 ± 1.622 χ^2/NDF : 38.7/54

All: 0.600 ± 1.185 χ^2/NDF : 73.0/102

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.517+/-0.001 χ^2/NDF : 21692395.5/24

Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24

Right Out: 1.518+/-0.001 χ^2/NDF : 24760366.3/29

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

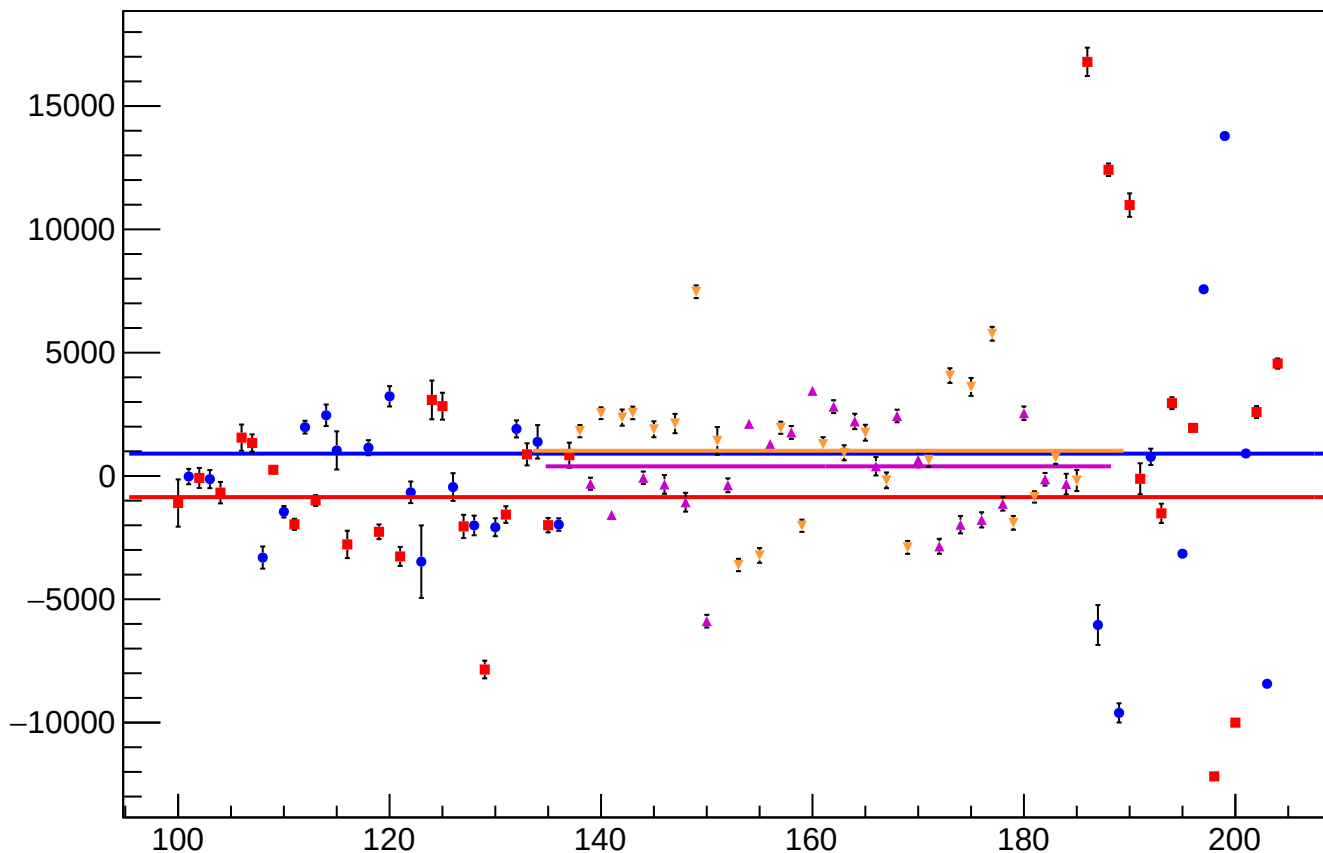
Right: 1.517+/-0.001 χ^2/NDF : 46452762.6/54

In: 1.663+/-0.001 χ^2/NDF : 55879946.1/47

Out: 1.651+/-0.001 χ^2/NDF : 61207504.0/54

All: 1.657+/-0.001 χ^2/NDF : 117087508.3/102

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 905.518+/-58.407 χ^2/NDF : 10777.7/24

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: -857.455+/-54.186 χ^2/NDF : 12630.4/29

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

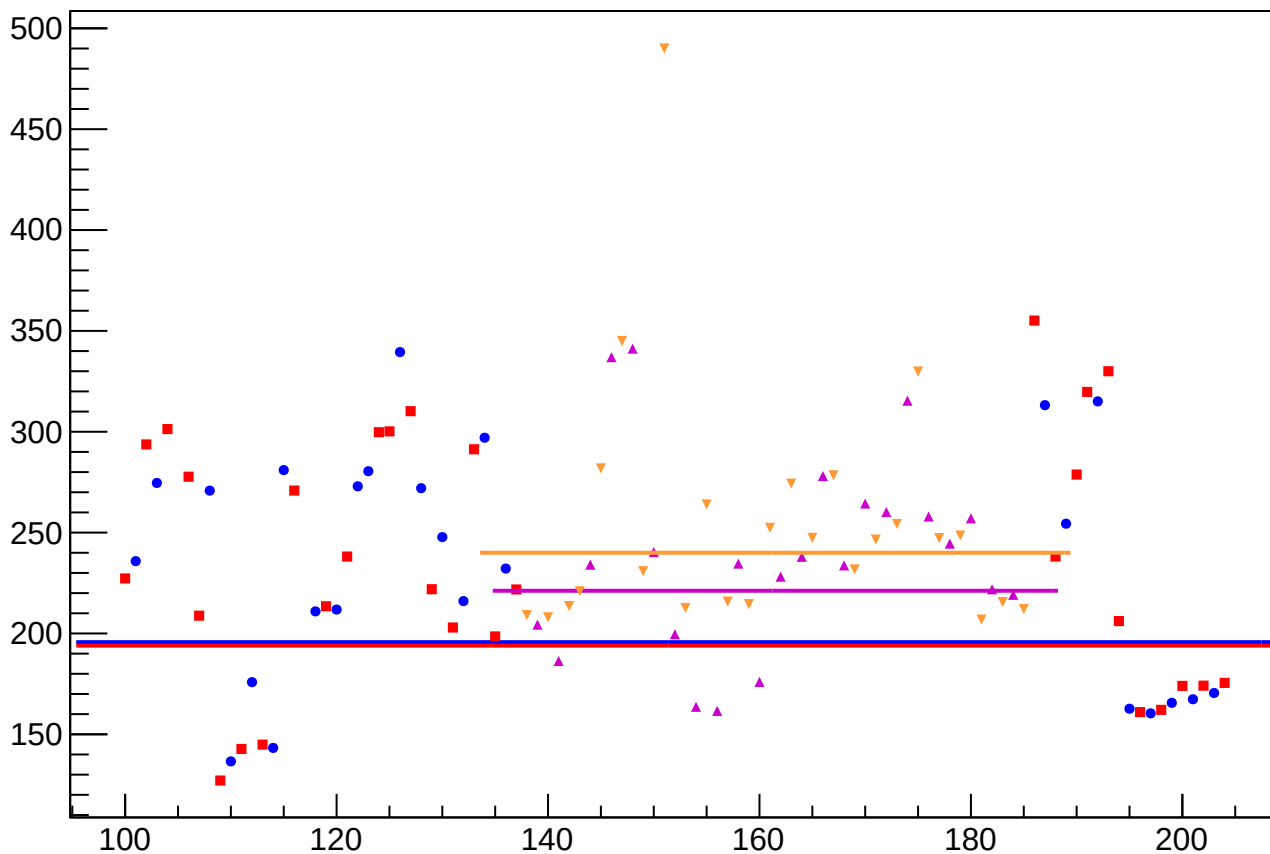
Right: -41.967+/-39.724 χ^2/NDF : 23897.8/54

In: 632.088+/-40.015 χ^2/NDF : 12404.0/47

Out: 29.882+/-39.383 χ^2/NDF : 15508.2/54

All: 326.191+/-28.069 χ^2/NDF : 28027.2/102

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 195.677 $\pm$ 0.041 χ^2 /NDF: 1413725.6/24

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 193.972 $\pm$ 0.038 χ^2 /NDF: 1978858.5/29

Left In: 221.173 $\pm$ 0.039 χ^2 /NDF:1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2 /NDF: 2457612.6/47

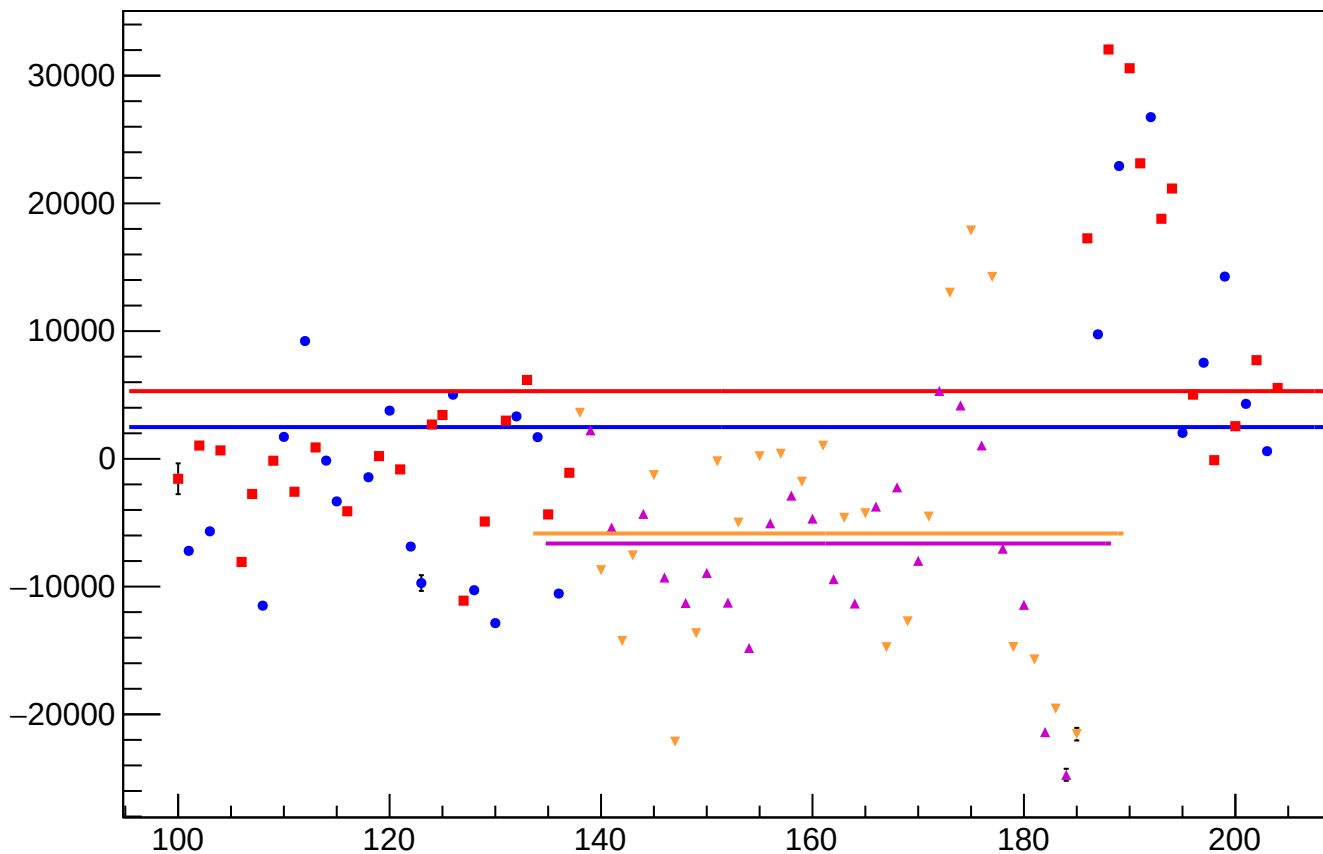
Right: 194.761 $\pm$ 0.028 χ^2 /NDF: 3393500.1/54

In: 209.206 $\pm$ 0.028 χ^2 /NDF:2958466.2/47

Out: 215.695 $\pm$ 0.028 χ^2 /NDF:3662648.8/54

All: 212.502 $\pm$ 0.020 χ^2 /NDF: 6647833.1/102

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2486.213 $\pm$ 38.144

χ^2/NDF : 77374.1/24

Left: -6220.862 $\pm$ -25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 $\pm$ -35.848

χ^2/NDF :63397.3/24

Right: 4008.723 $\pm$ -25.848

χ^2/NDF : 181749.3/54

Right Out: 5301.523 $\pm$ -35.149

χ^2/NDF : 101429.3/29

In: -2190.211 $\pm$ -26.617

χ^2/NDF :128406.7/47

Out: -160.459 $\pm$ -25.098

χ^2/NDF :214089.8/54

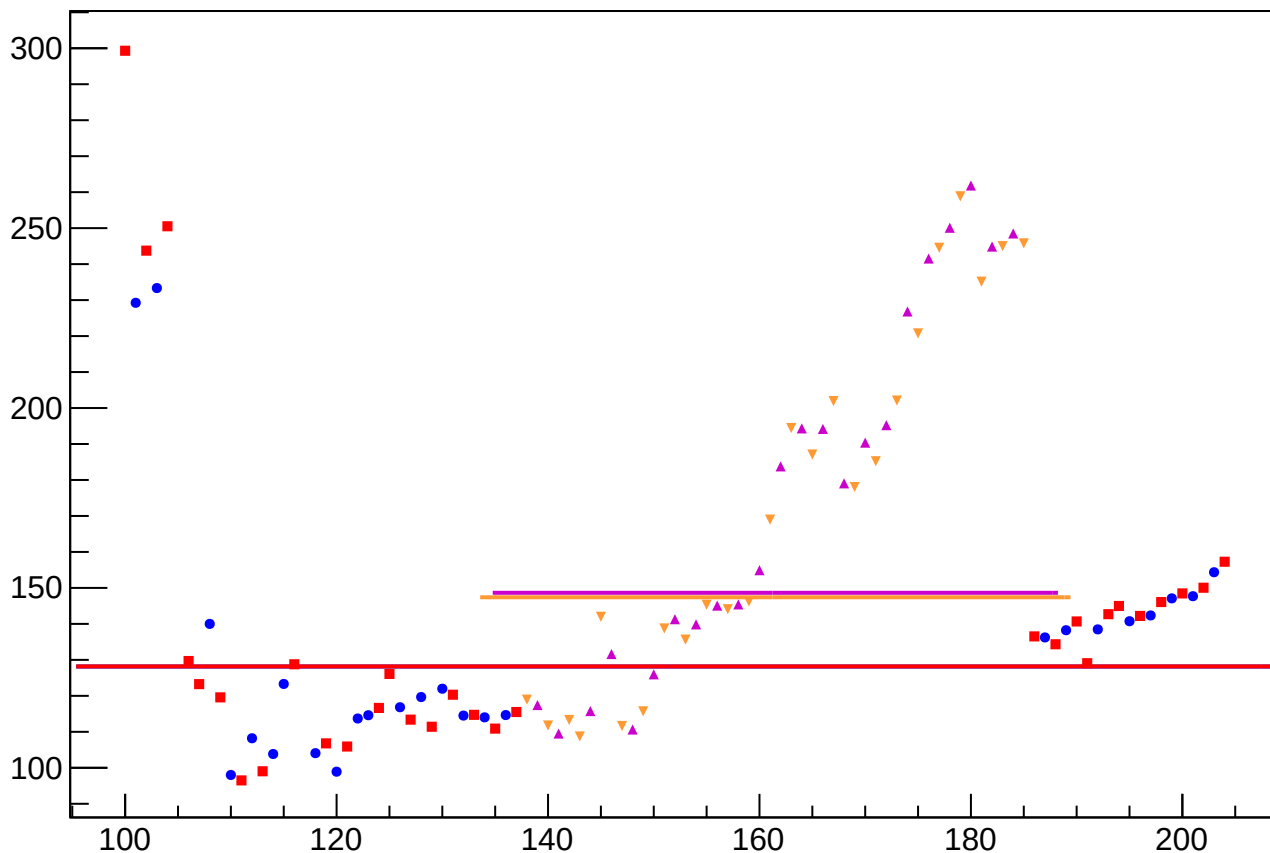
Left In: -6628.388 $\pm$ -37.160

χ^2/NDF :21738.0/22

All: -1115.737 $\pm$ -18.260

χ^2/NDF : 345574.8/1

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 128.151+/-0.027 χ^2/NDF : 865105.4/24

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 128.180+/-0.025 χ^2/NDF : 998753.8/29

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

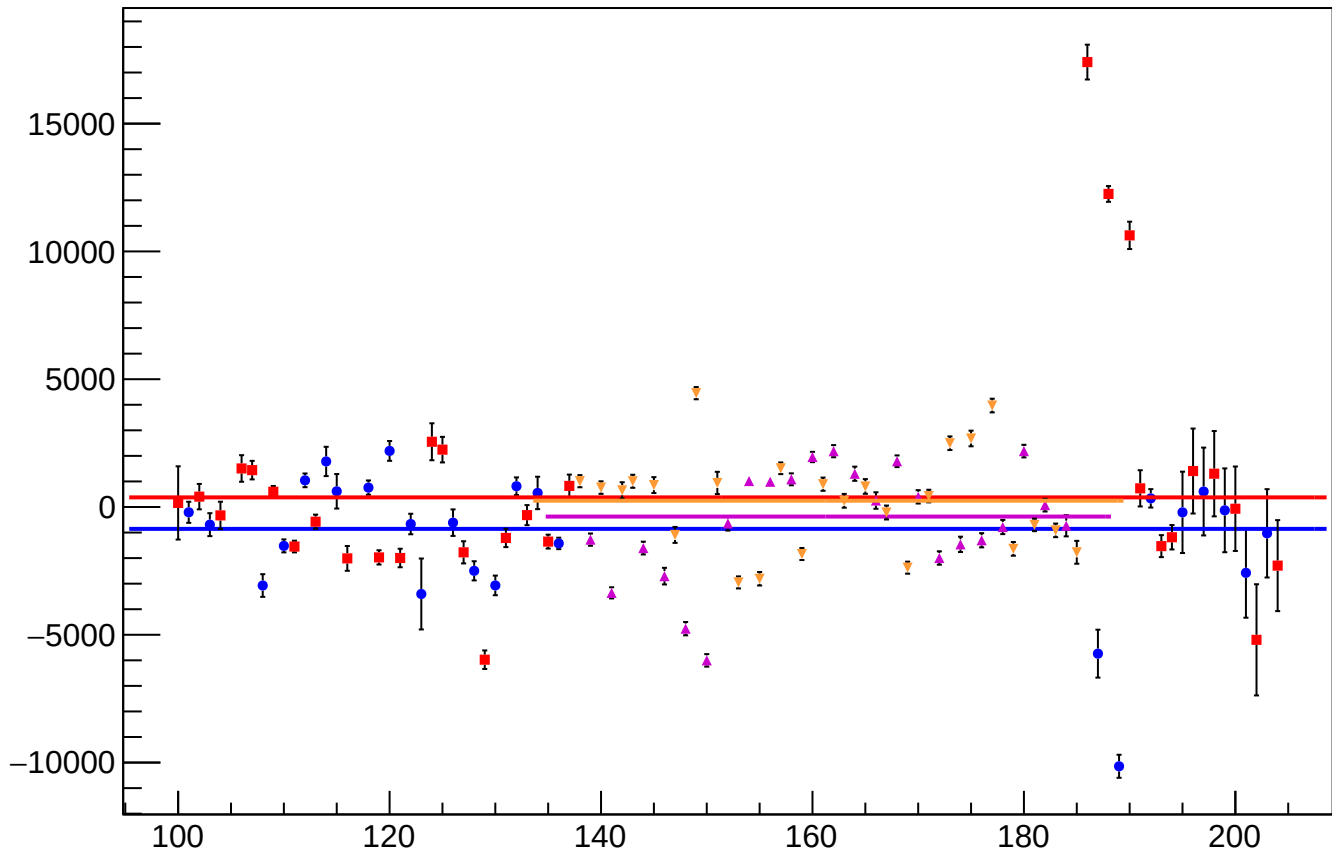
Right: 128.167+/-0.018 χ^2/NDF : 1863859.8/54

In: 138.664+/-0.019 χ^2/NDF : 3576763.6/47

Out: 137.599+/-0.018 χ^2/NDF : 3808840.6/54

All: 138.101+/-0.013 χ^2/NDF : 7387299.1/102

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -856.223 $\pm$ 84.323 χ^2/NDF : 761.4/24

Left Out: 246.120 $\pm$ 53.492 χ^2/NDF :1354.8/24

Right Out: 376.092 $\pm$ 75.096 χ^2/NDF : 3169.7/29

Left In: -374.465 $\pm$ 51.892 χ^2/NDF :1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2/NDF : 3222.4/47

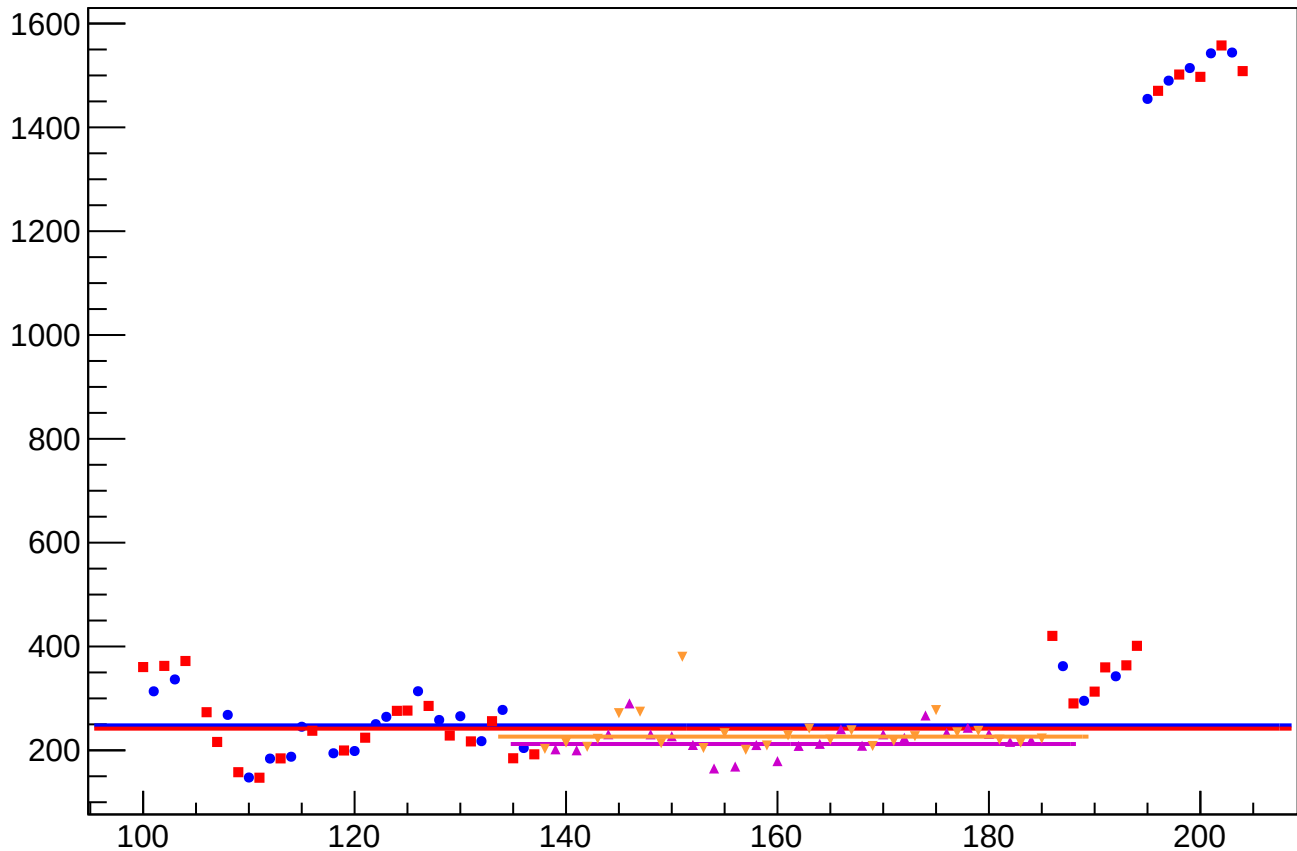
Right: -168.977 $\pm$ 56.081 χ^2/NDF : 4050.2/54

In: -506.797 $\pm$ 44.194 χ^2/NDF :2583.4/47

Out: 289.868 $\pm$ 43.569 χ^2/NDF :4526.5/54

All: -102.786 $\pm$ 31.027 χ^2/NDF : 7274.7/102

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 248.059 $\pm$ 0.060 χ^2 /NDF: 6610910.7/24

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 241.742 $\pm$ 0.053 χ^2 /NDF: 6981457.3/29

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

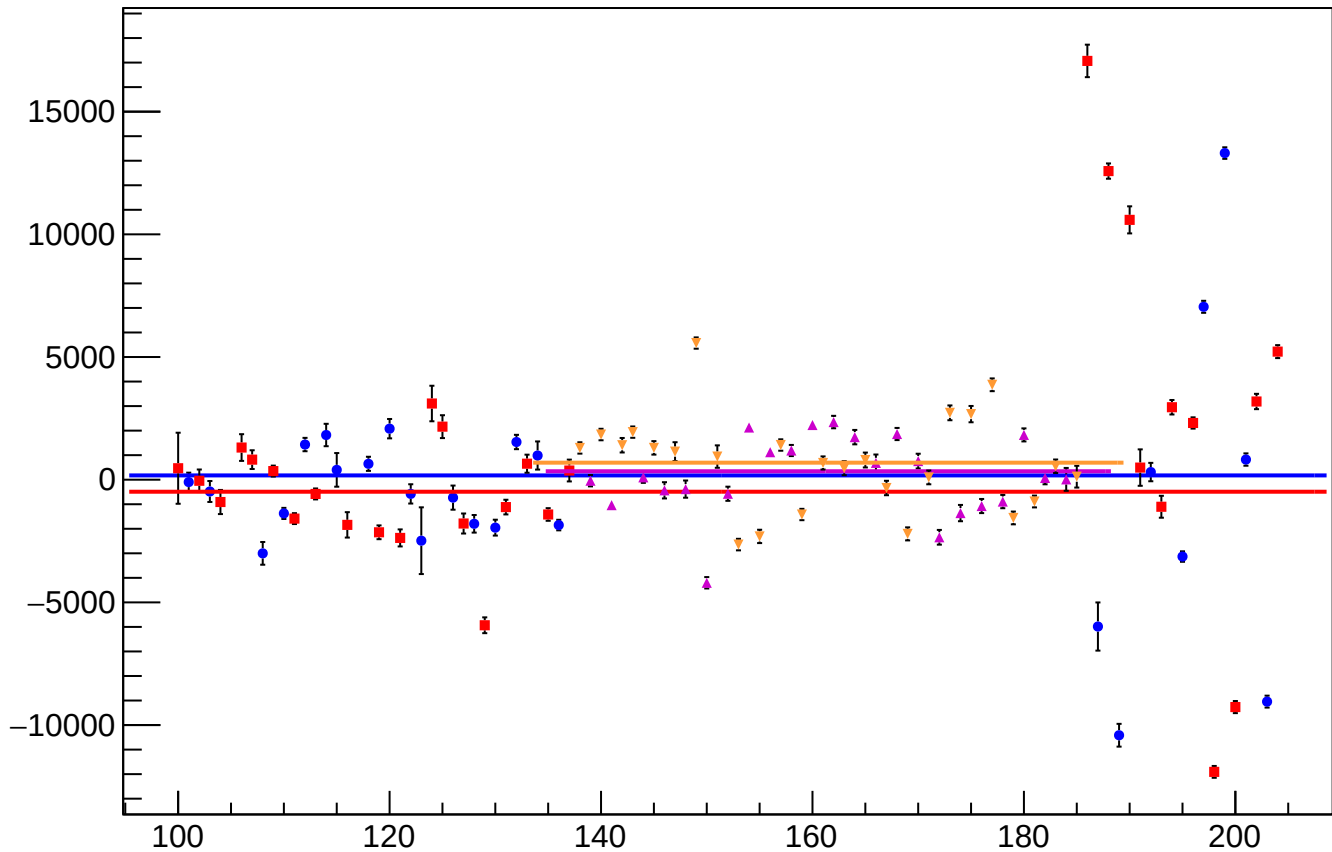
Right: 244.536 $\pm$ 0.040 χ^2 /NDF: 13598627.5/54

In: 222.010 $\pm$ 0.031 χ^2 /NDF: 7465756.8/47

Out: 231.548 $\pm$ 0.031 χ^2 /NDF: 7558784.6/54

All: 226.847 $\pm$ 0.022 χ^2 /NDF: 15071782.7/100

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 174.837 $\pm$ 64.223 χ^2 /NDF: 6501.1/24

Left Out: 694.326 $\pm$ 54.246 χ^2 /NDF:1422.1/24

Right Out: -489.959 $\pm$ 60.098 χ^2 /NDF: 7773.7/29

Left In: 344.578 $\pm$ 52.954 χ^2 /NDF:985.0/22

Left: 515.236 $\pm$ 37.893 χ^2 /NDF: 2428.4/47

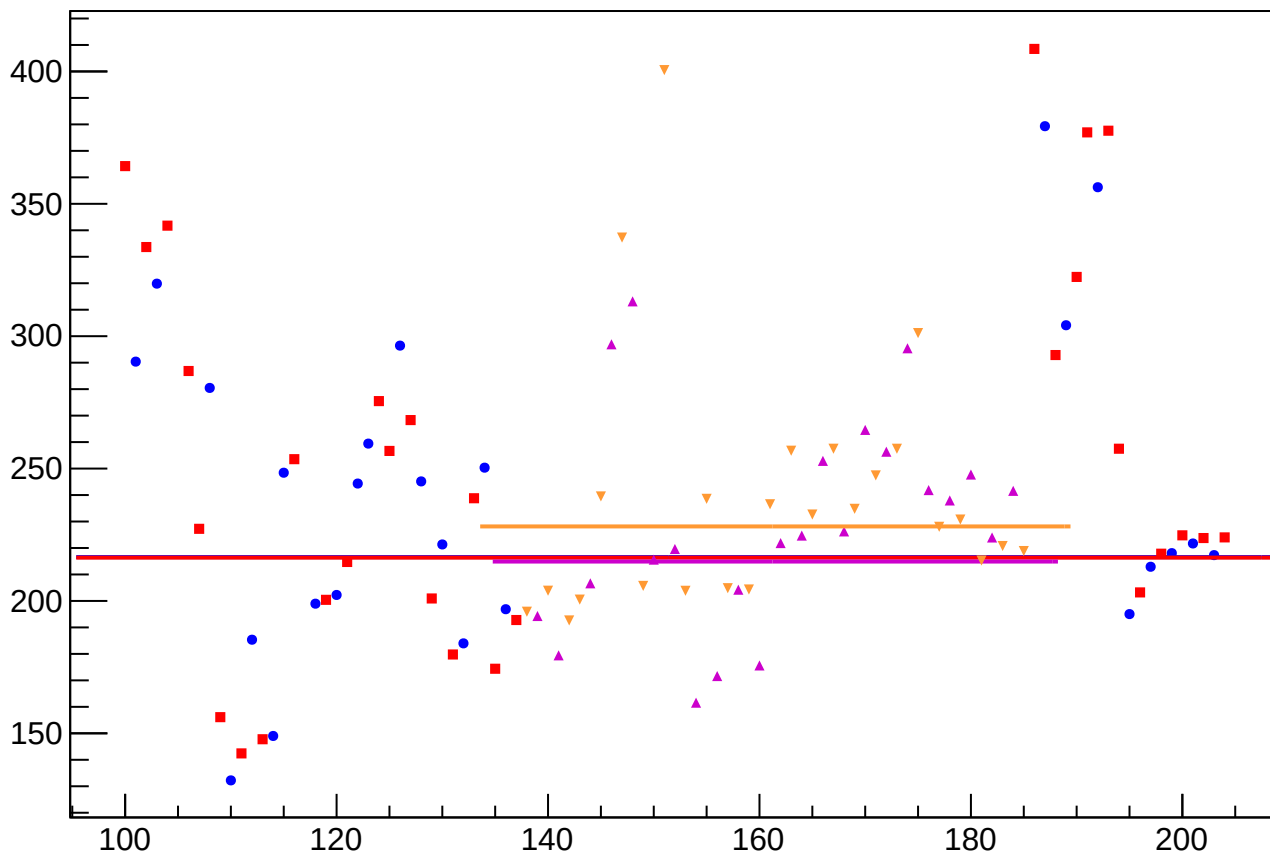
Right: -179.595 $\pm$ 43.882 χ^2 /NDF: 14332.0/54

In: 275.882 $\pm$ 40.857 χ^2 /NDF:7490.3/47

Out: 162.630 $\pm$ 40.268 χ^2 /NDF:9409.8/54

All: 218.434 $\pm$ 28.680 χ^2 /NDF: 16904.0/102

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.556 $\pm$ 0.045 χ^2/NDF : 1143829.5/24

Left Out: 228.144 $\pm$ 0.038 χ^2/NDF : 828399.3/24

Right Out: 216.364 $\pm$ 0.042 χ^2/NDF : 1819584.3/29

Left In: 214.878 $\pm$ 0.037 χ^2/NDF : 1037509.6/22

Left: 221.351 $\pm$ 0.027 χ^2/NDF : 1927151.4/47

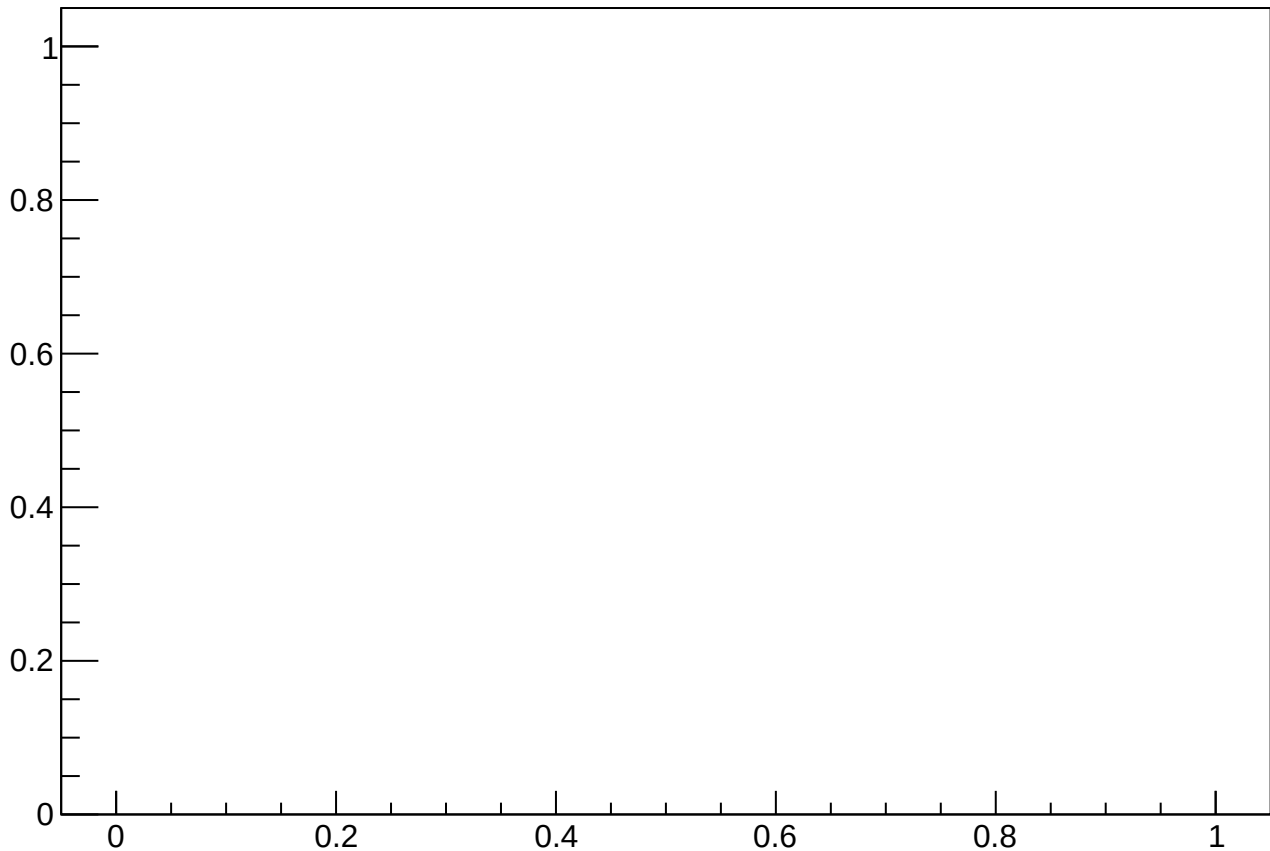
Right: 216.454 $\pm$ 0.031 χ^2/NDF : 2963423.3/54

In: 215.557 $\pm$ 0.029 χ^2/NDF : 2182151.7/47

Out: 222.855 $\pm$ 0.028 χ^2/NDF : 2690323.0/54

All: 219.259 $\pm$ 0.020 χ^2/NDF : 4904844.3/102

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

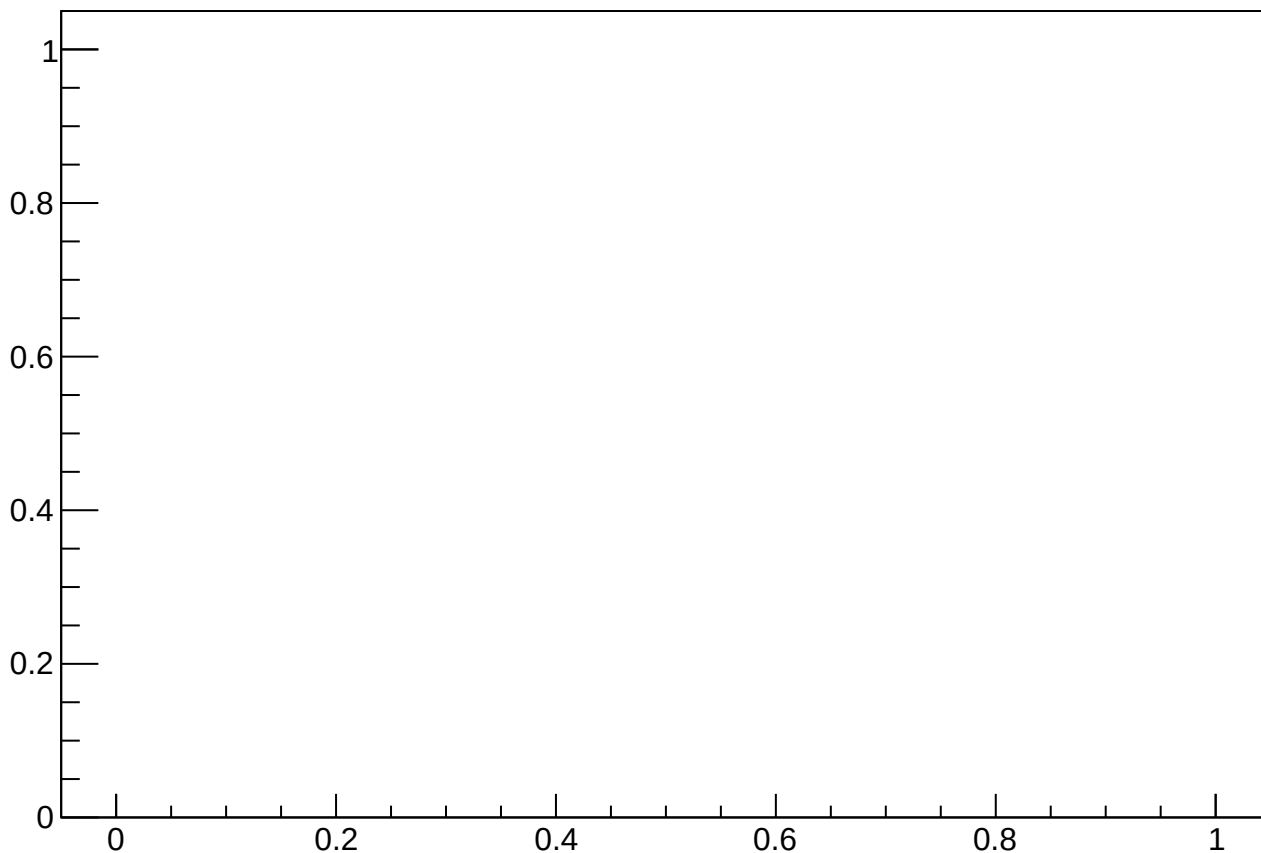
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

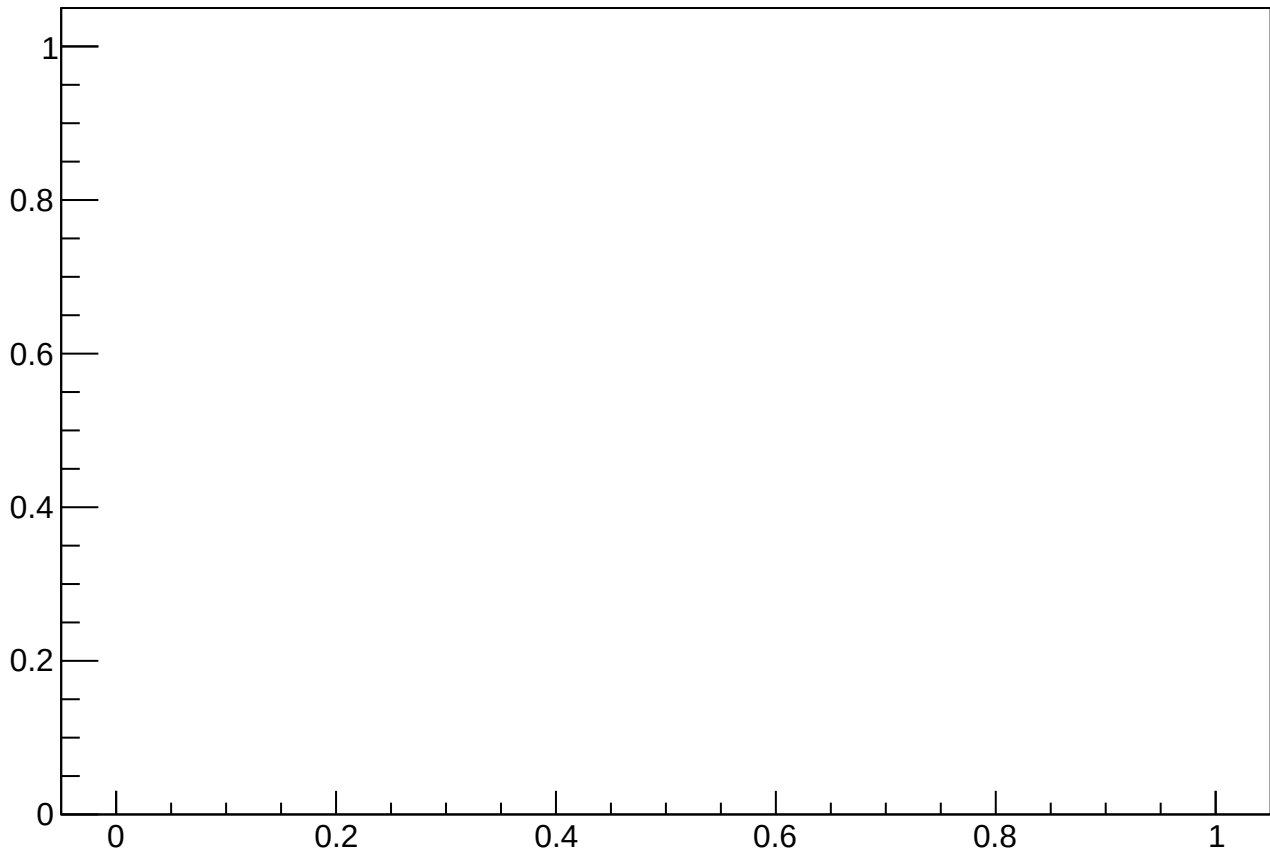
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

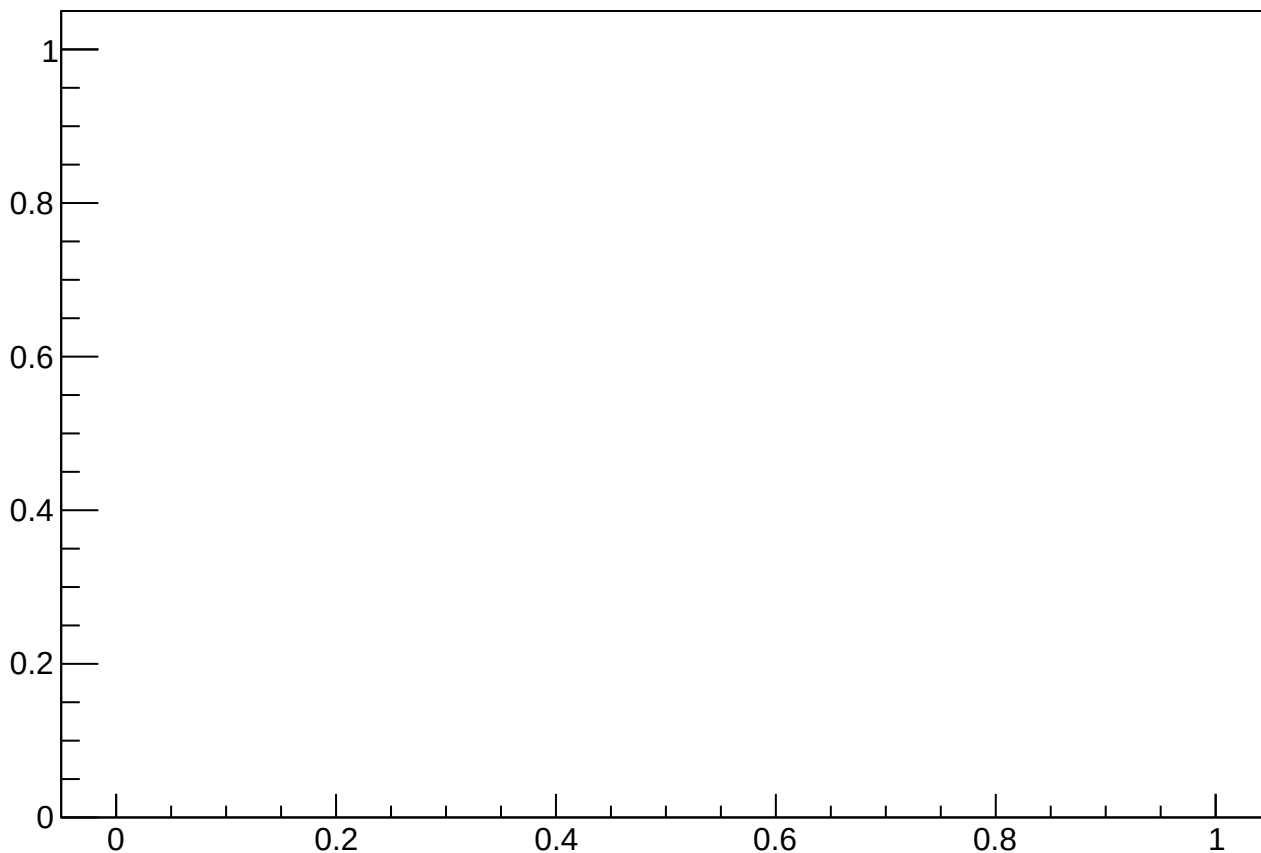
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

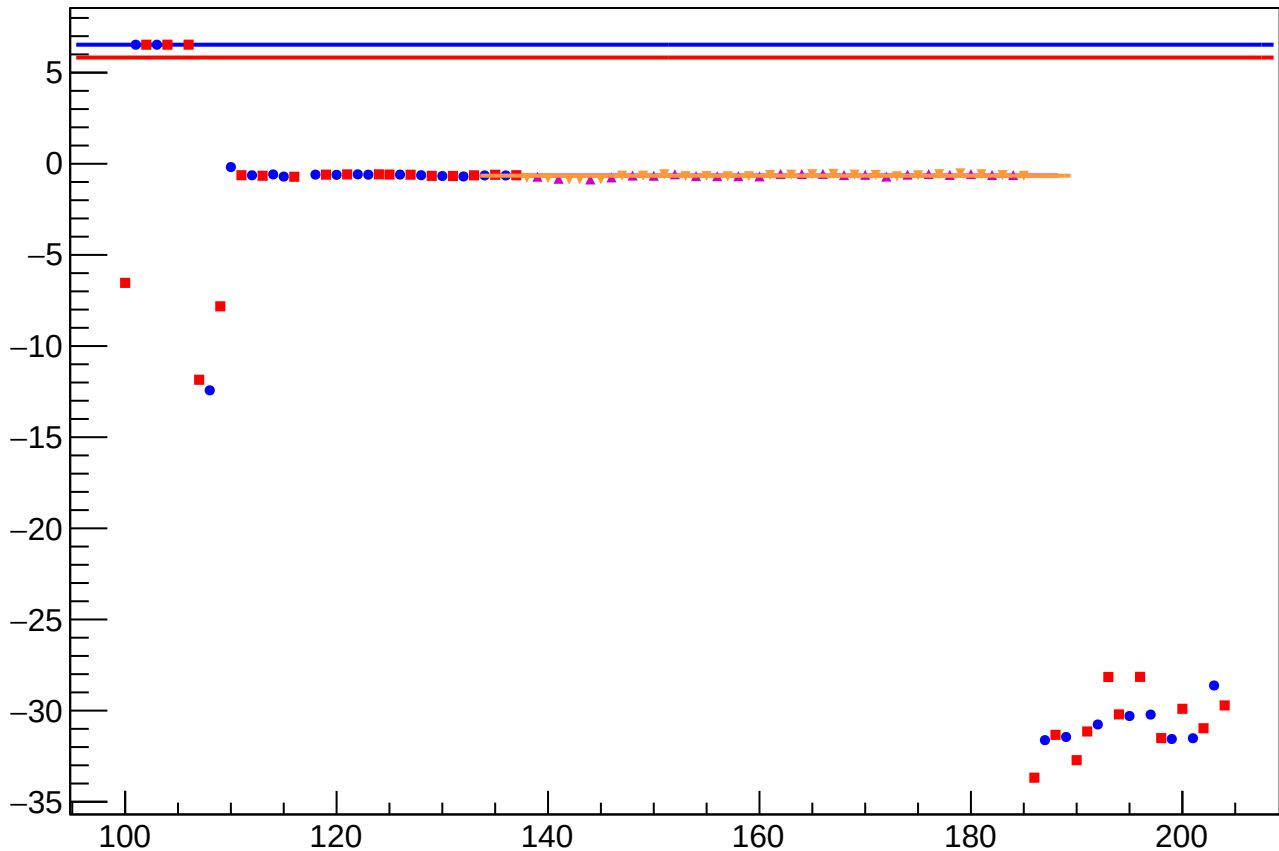
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127966013198.3/24

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962385560825.8/29

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

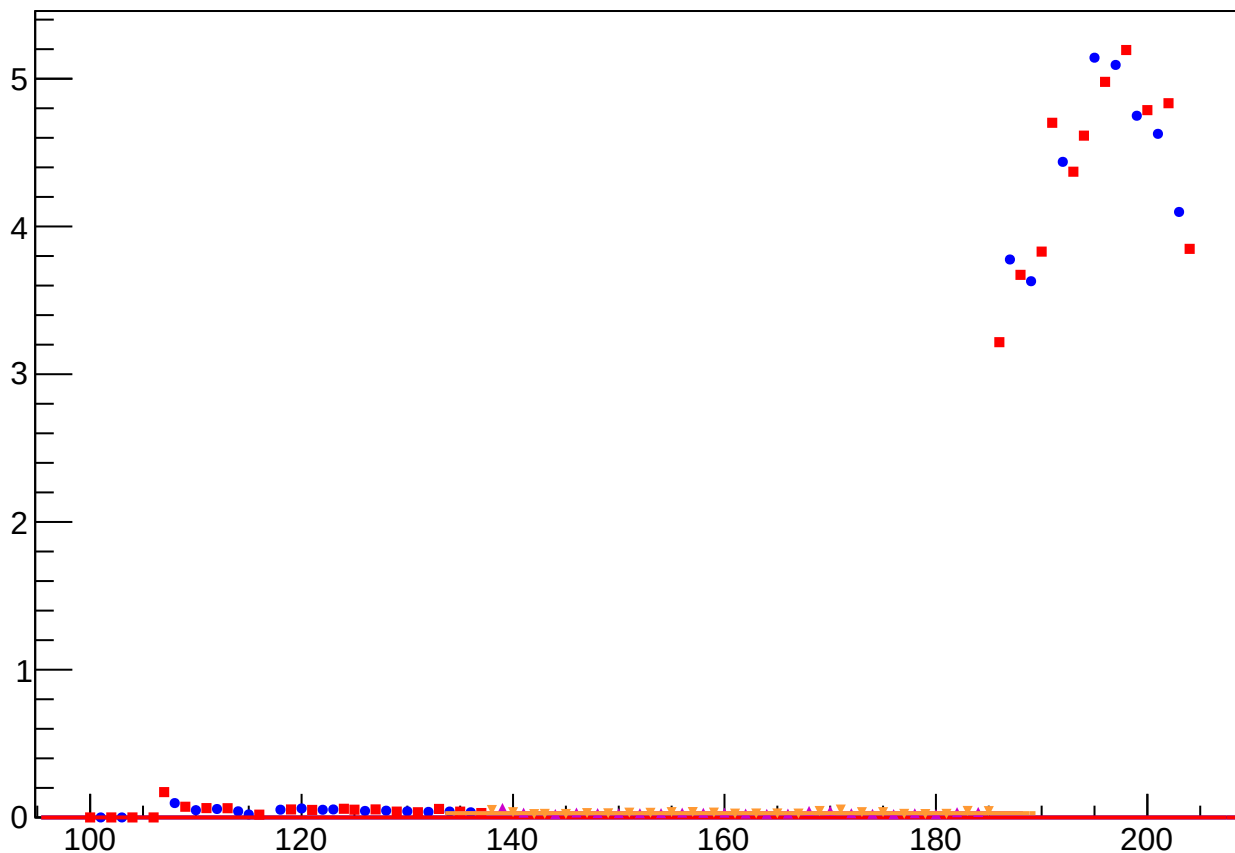
Right: 6.155+/-0.000 χ^2/NDF : 776094315957126.9/47

In: 6.530+/-0.000 χ^2/NDF : 962084594256.7/47

Out: 5.826+/-0.000 χ^2/NDF : 756673402444883.6/50

All: 6.153+/-0.000 χ^2/NDF : 77762774782602.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19570834.6/24

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23149482.6/29

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

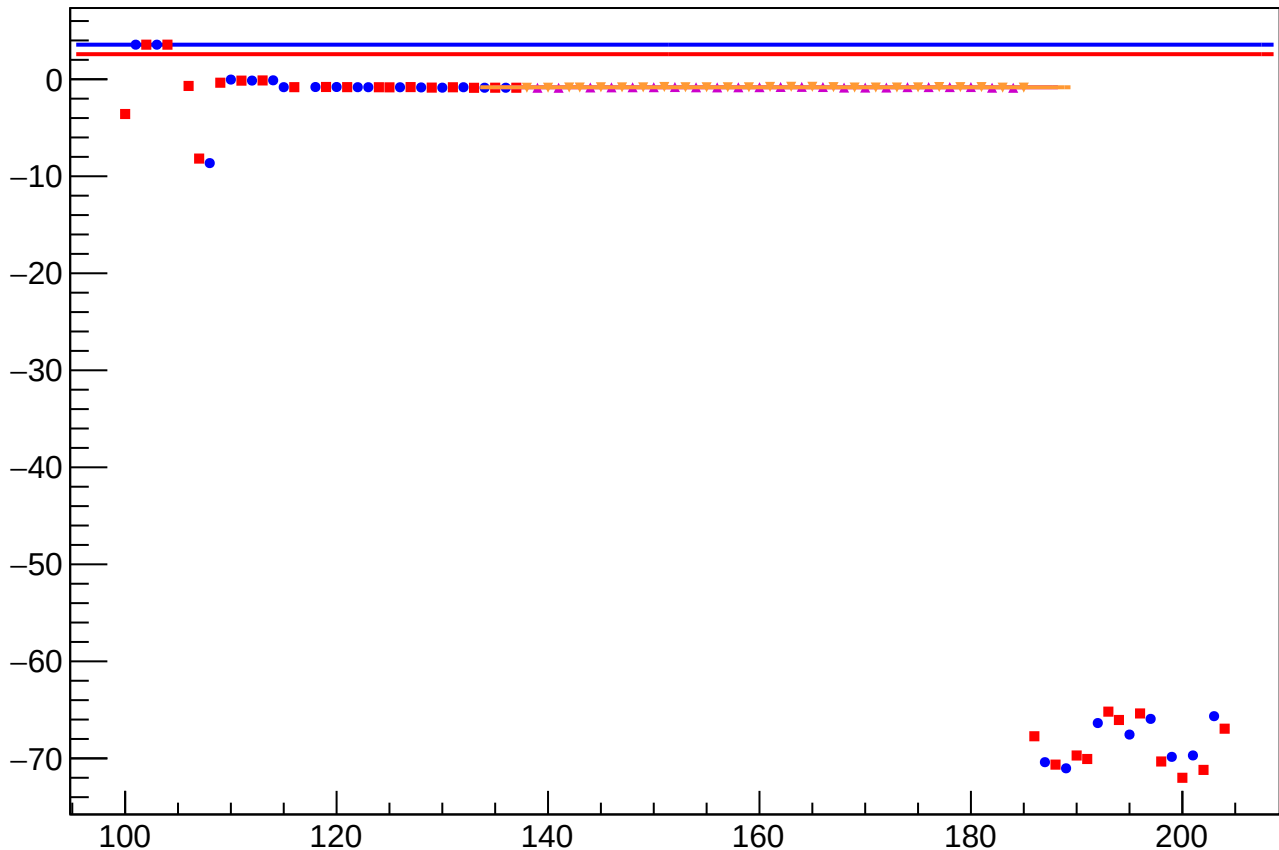
Right: 0.000+/-0.000 χ^2/NDF : 42720564.7/54

In: 0.000+/-0.000 χ^2/NDF :47748630.8/47

Out: 0.000+/-0.000 χ^2/NDF :53117512.3/54

All: 0.000+/-0.000 χ^2/NDF : 100866568.5/102

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 500922409017.3/24

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253526729506367.5/29

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

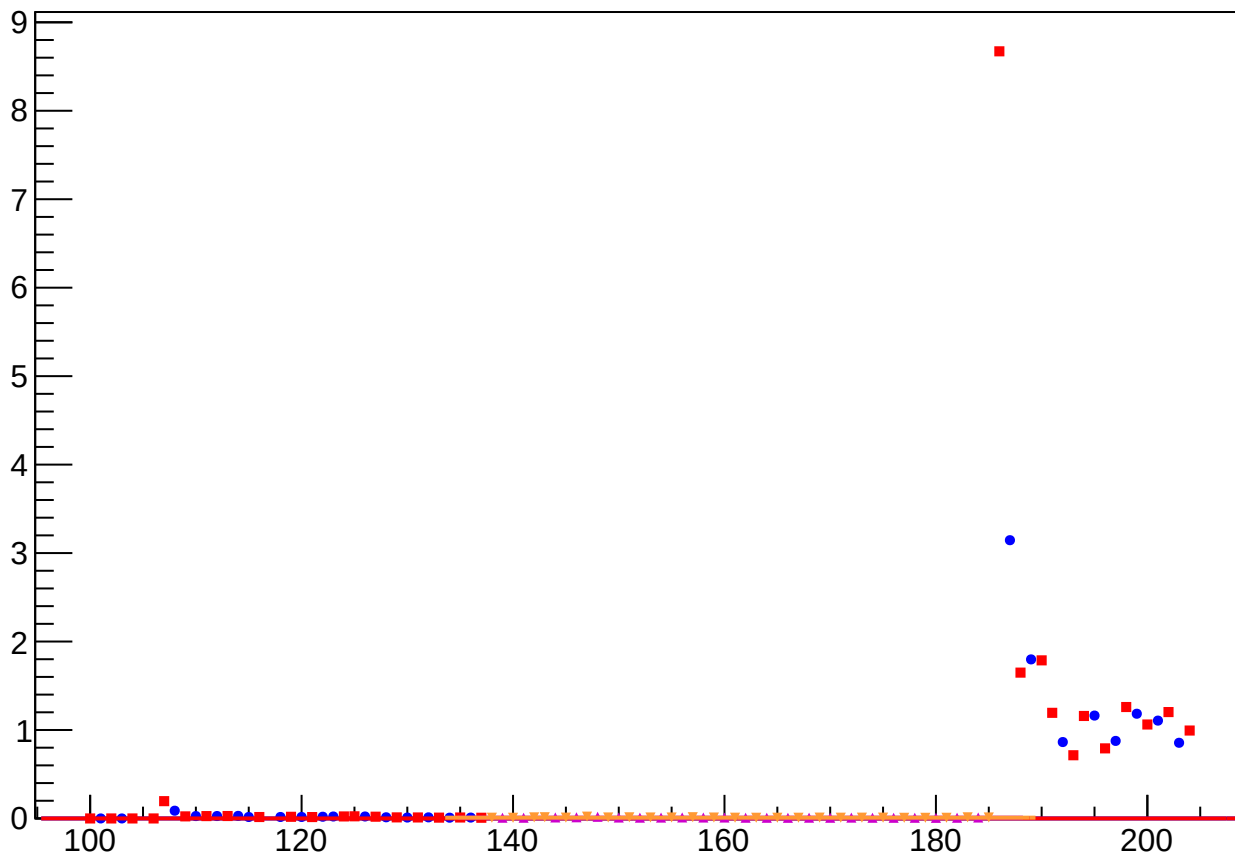
Right: 3.040+/-0.000 χ^2/NDF : 1382298780235714.8

In: 3.560+/-0.000 χ^2/NDF : 4181482776523.2/47

Out: 2.581+/-0.000 χ^2/NDF : 1255757630065084.2

All: 3.038+/-0.000 χ^2/NDF : 13880233403936

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18414326.3/24

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21598322.8/29

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

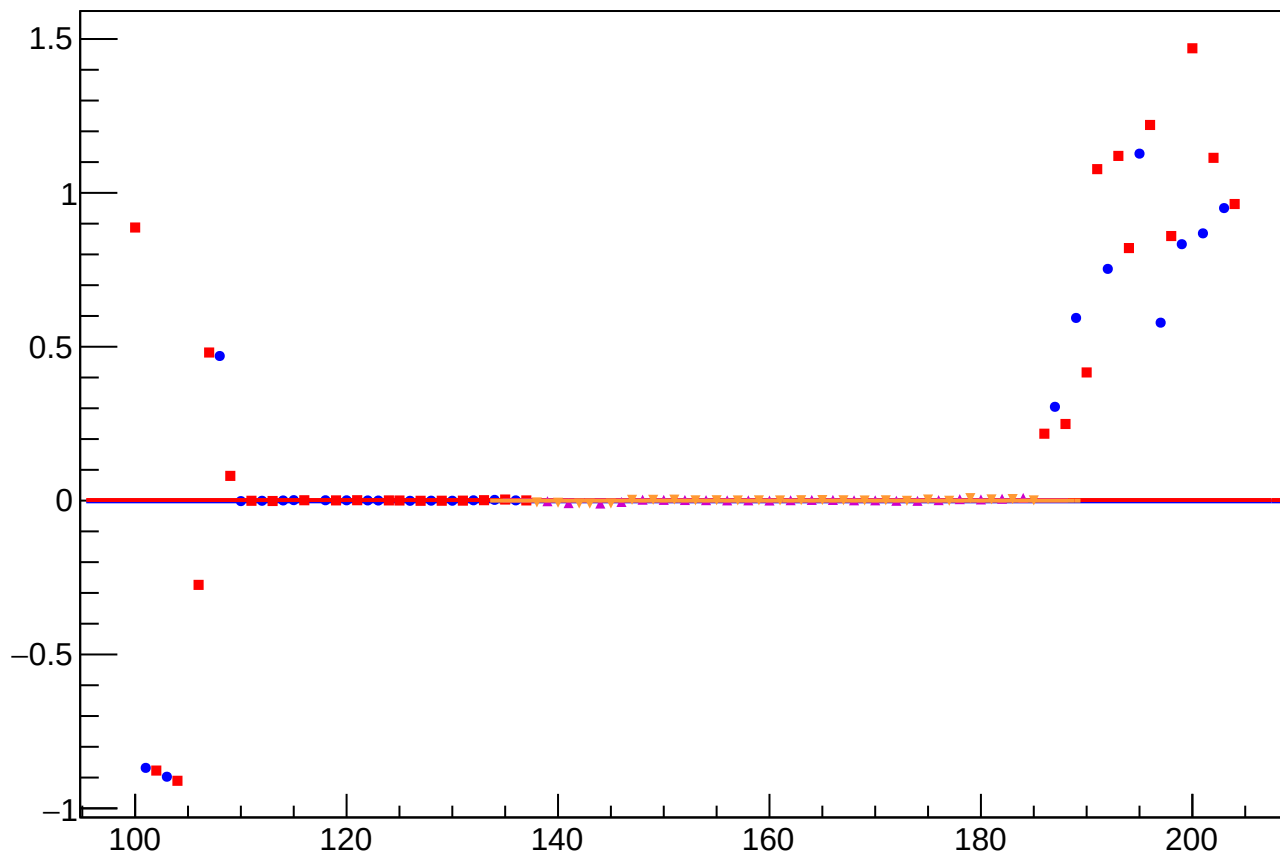
Right: 0.000+/-0.000 χ^2/NDF : 40012922.5/54

In: 0.000+/-0.000 χ^2/NDF :48211458.2/47

Out: 0.000+/-0.000 χ^2/NDF :53116443.1/54

All: 0.000+/-0.000 χ^2/NDF : 101328679.0/102

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796187181.9/24

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043570700.1/29

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12853906725.8/54

In: -0.000+/-0.000

χ^2/NDF : 9909096478.9/47

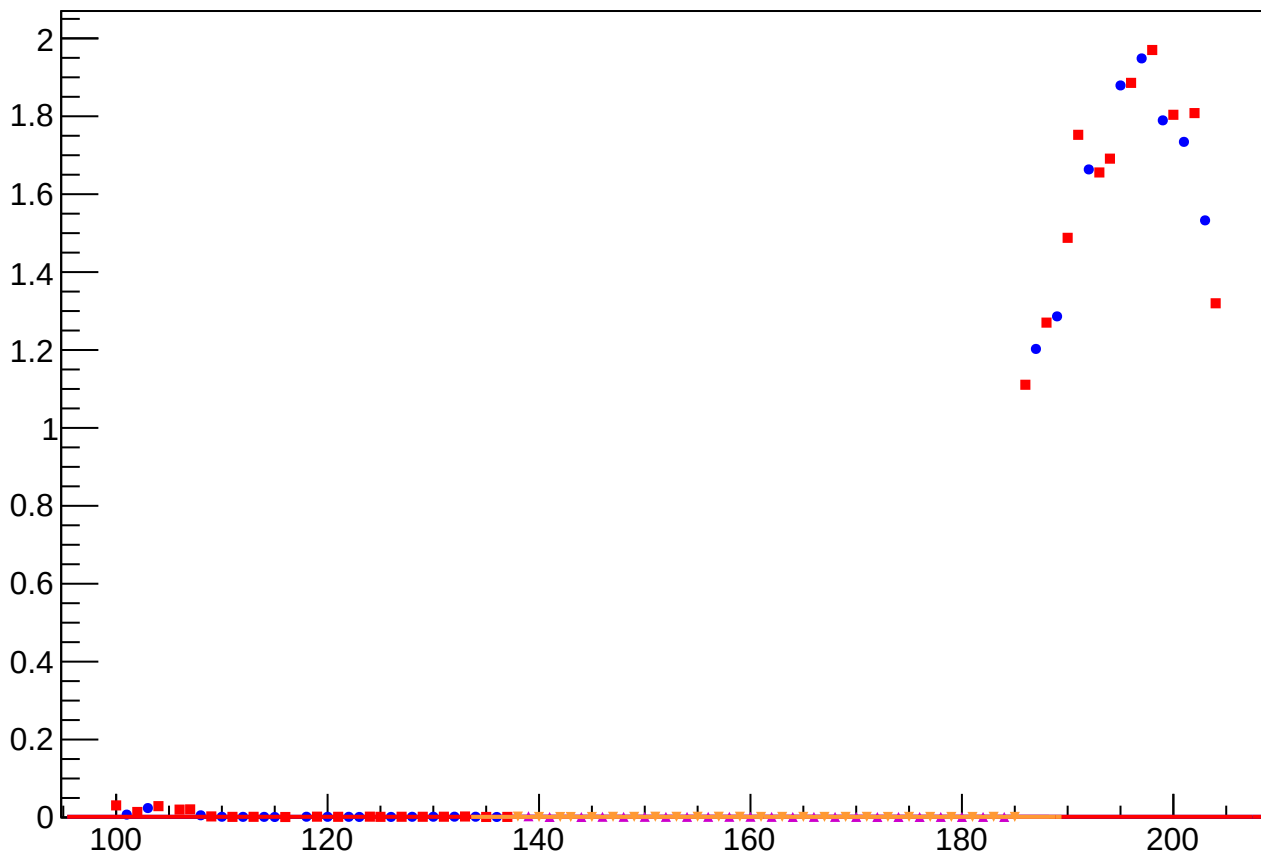
Out: 0.000+/-0.000

χ^2/NDF : 3199808080.2/54

All: 0.000+/-0.000

χ^2/NDF : 13109276162.6/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 12606936.9/24

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16806340.5/29

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

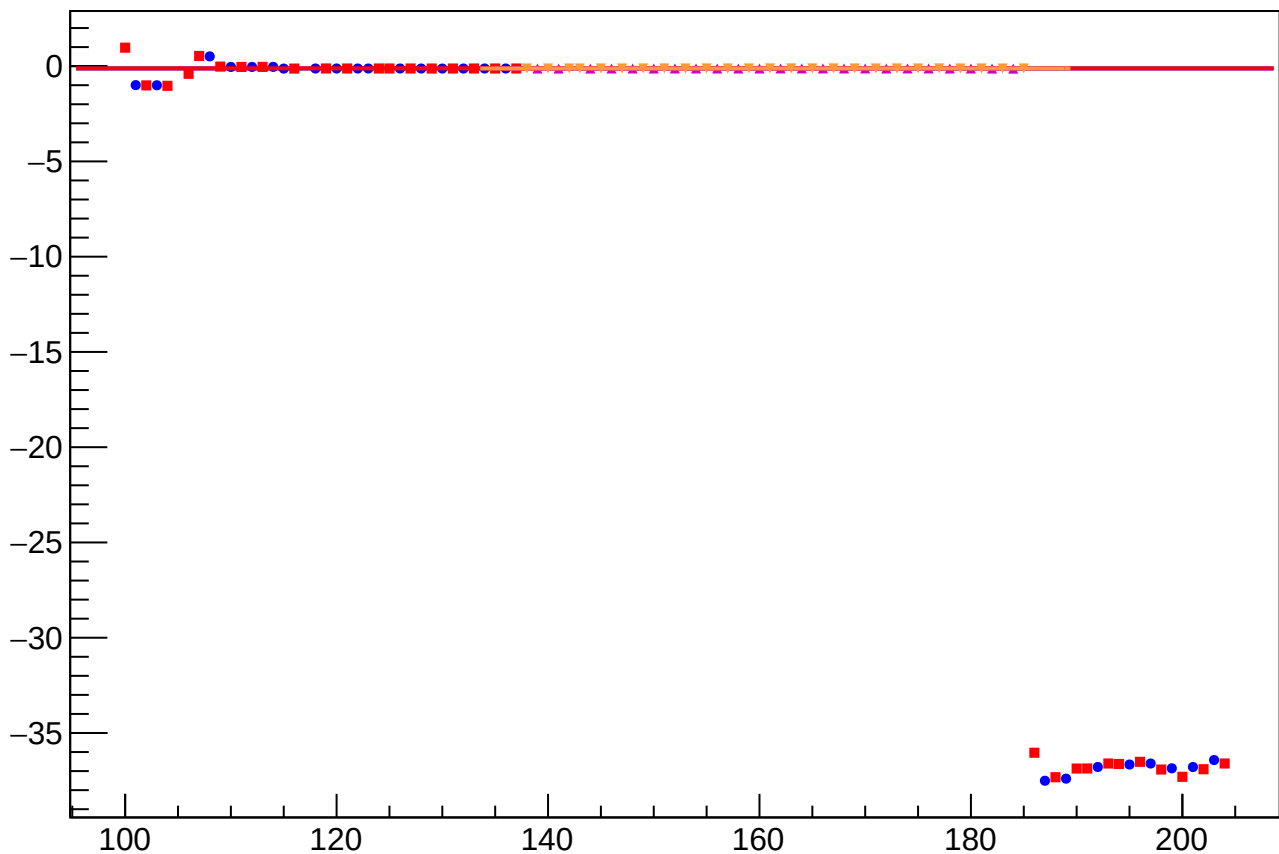
Right: 0.002+/-0.000 χ^2/NDF : 29421317.2/54

In: 0.002+/-0.000 χ^2/NDF : 13318875.0/47

Out: 0.002+/-0.000 χ^2/NDF : 17481591.5/54

All: 0.002+/-0.000 χ^2/NDF : 30801086.6/102

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 50446421815.4/24

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 59986649327.4/29

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

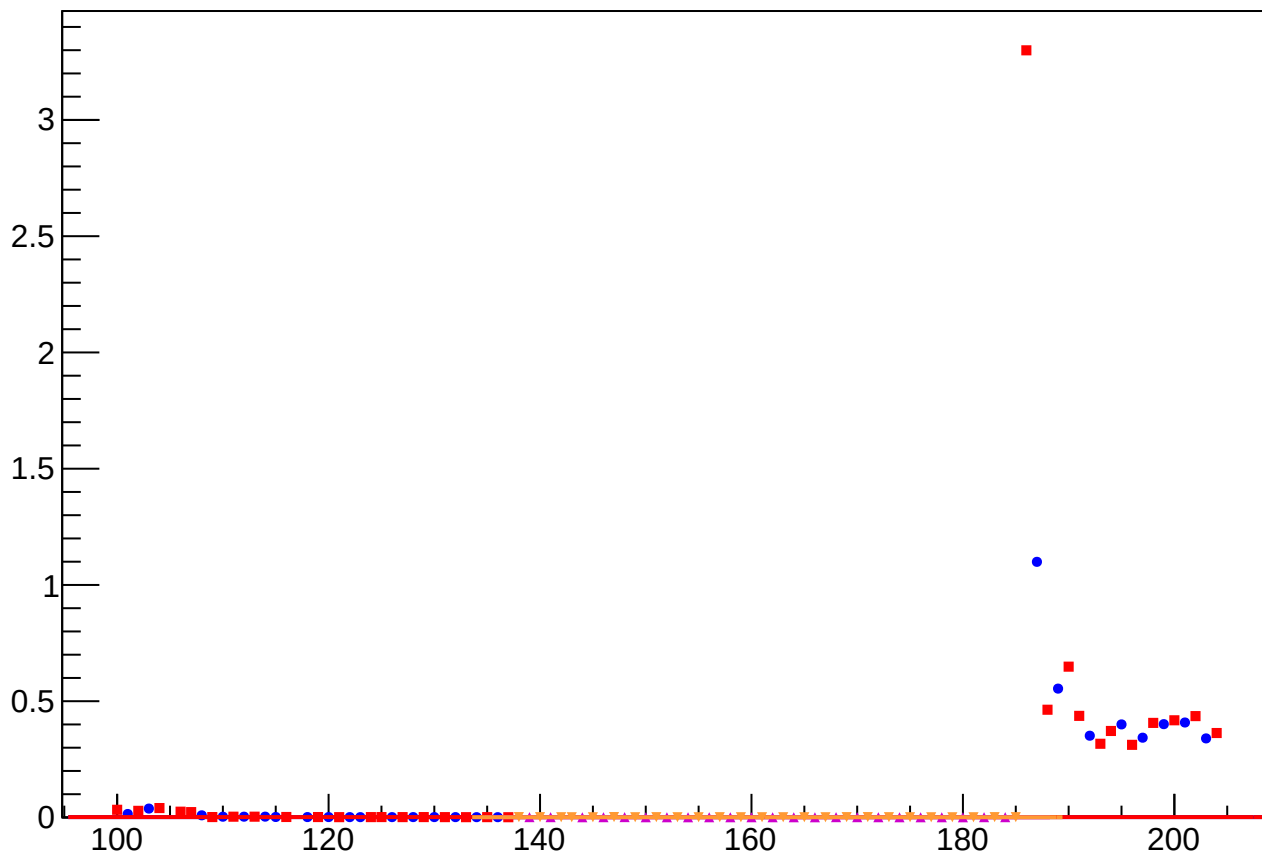
Right: -0.119+/-0.000 χ^2/NDF : 110454477264.7/54

In: -0.121+/-0.000 χ^2/NDF : 50499565442.7/47

Out: -0.121+/-0.000 χ^2/NDF : 60085357174.7/54

All: -0.121+/-0.000 χ^2/NDF : 110585811911.6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 13066461.1/24

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16793895.5/29

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

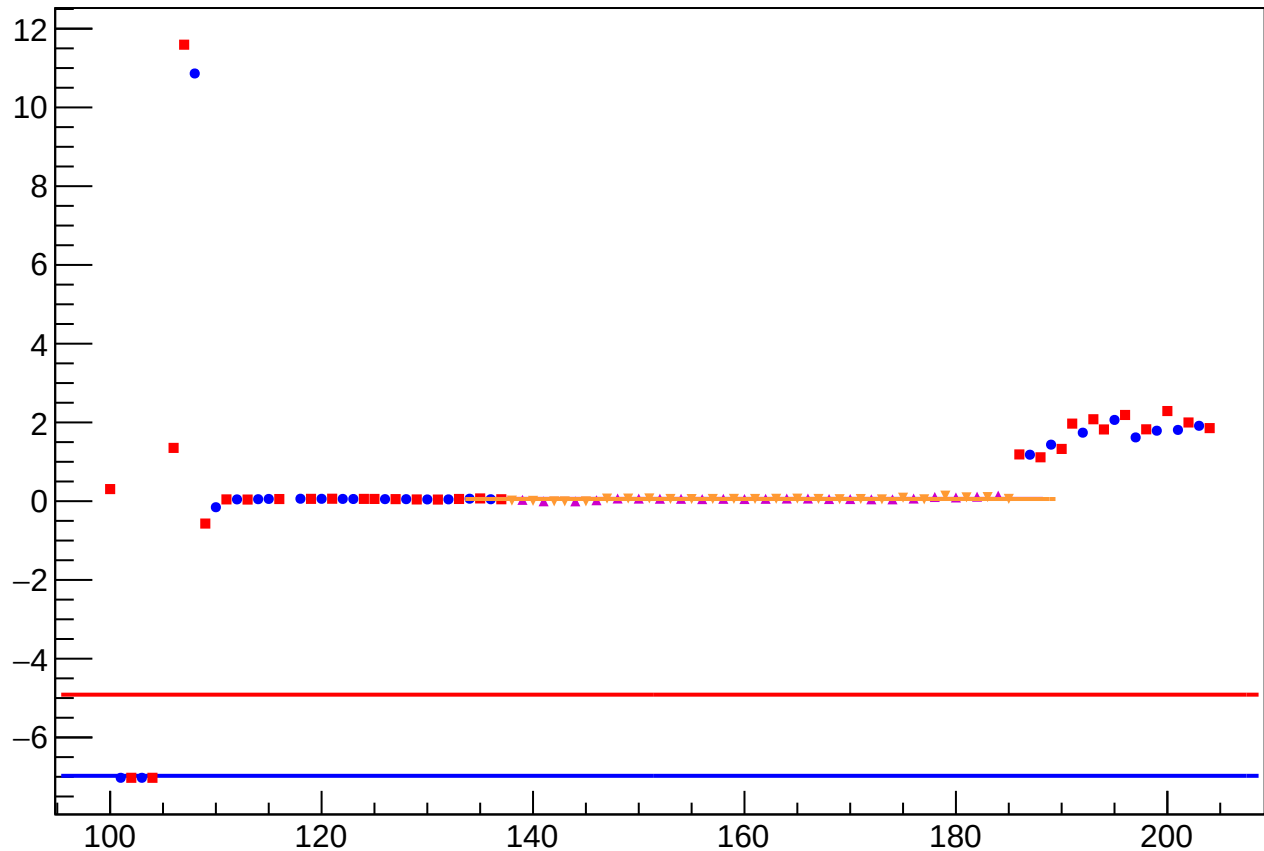
Right: 0.002+/-0.000 χ^2/NDF : 29860382.2/54

In: 0.001+/-0.000 χ^2/NDF :15183960.4/47

Out: 0.001+/-0.000 χ^2/NDF :19332101.6/54

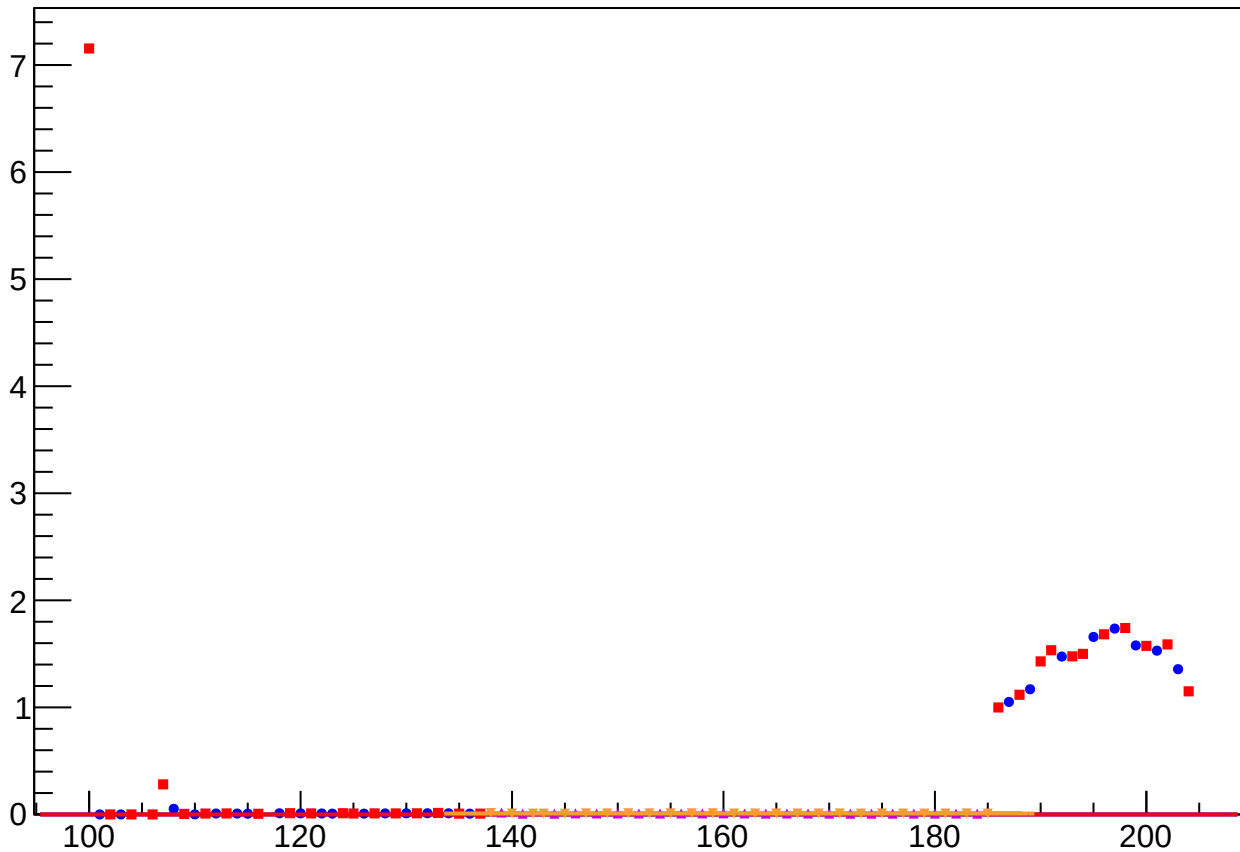
All: 0.001+/-0.000 χ^2/NDF : 34518154.1/102

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762635676721.8/24$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303542716958.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348691877174.2/29$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605162493185.9/47$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175378402255.8/29$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435815064333.0/100$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18932222.9/24

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 22561612.9/29

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

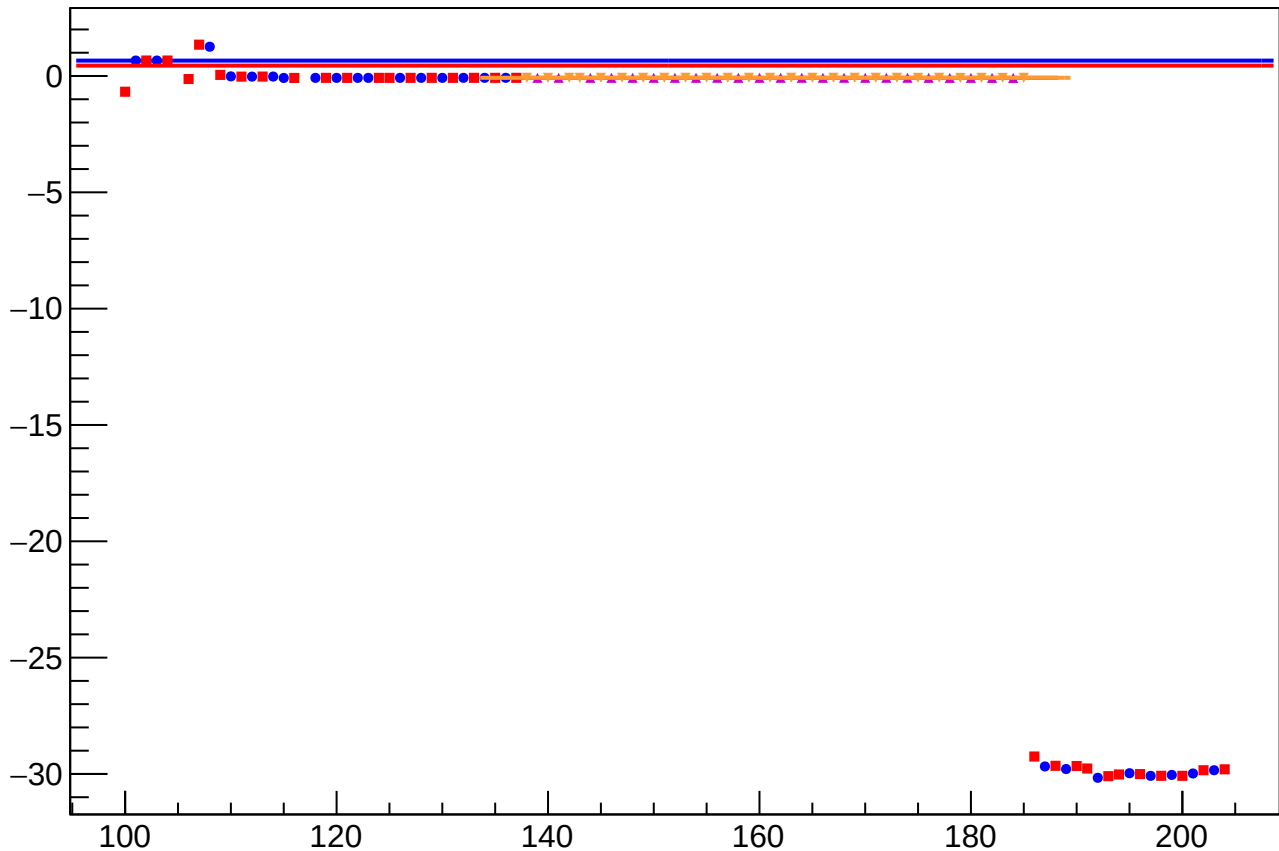
Right: 0.000+/-0.000 χ^2/NDF : 41494137.6/54

In: 0.000+/-0.000 χ^2/NDF : 46568975.1/47

Out: 0.000+/-0.000 χ^2/NDF : 51589543.2/54

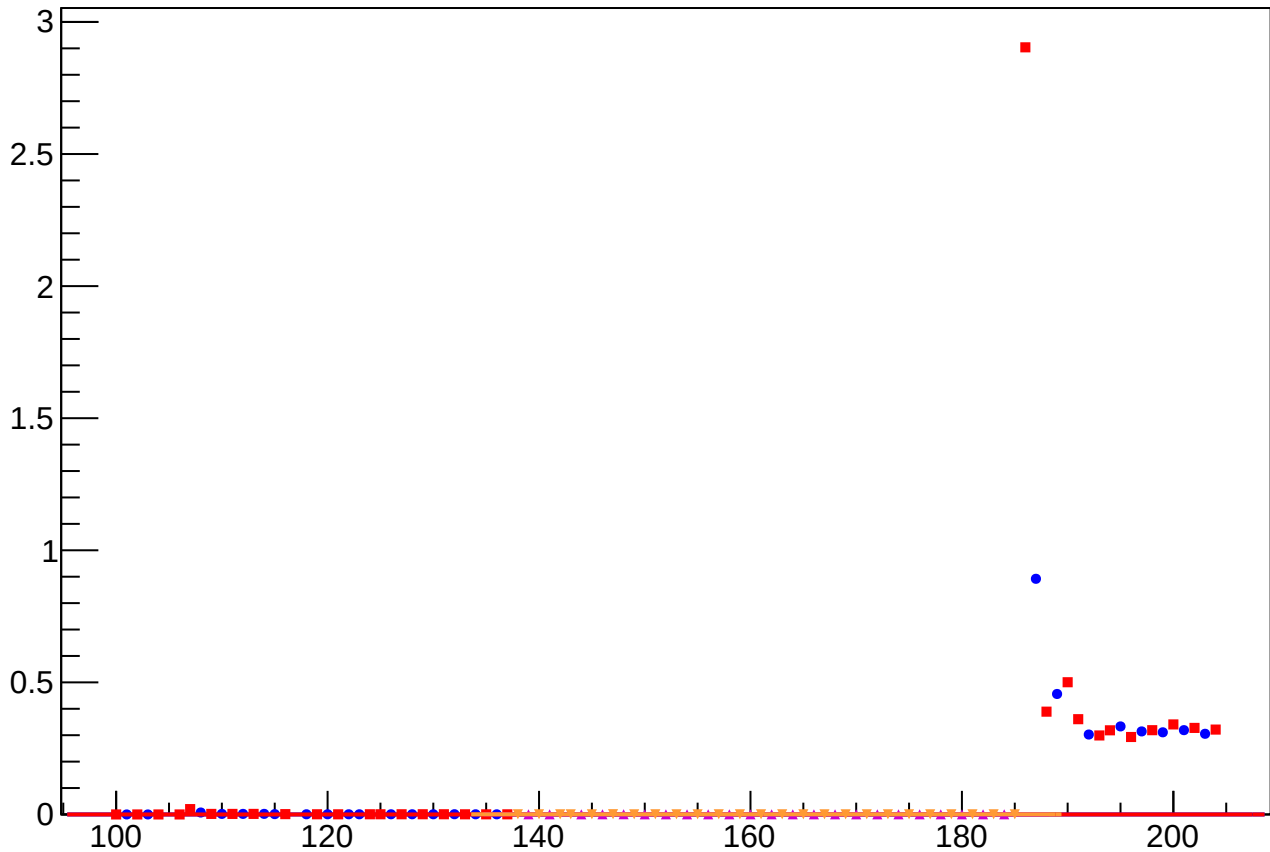
All: 0.000+/-0.000 χ^2/NDF : 98159002.3/102

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5632486329600.8/24	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474033448269786.3
Right Out: 0.446+/-0.000	χ^2/NDF : 405471724743346.2/29	In: 0.647+/-0.000	χ^2/NDF : 33892432564787.0/47
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420666295068515.3/5
		All: 0.537+/-0.000	χ^2/NDF : 51608342485502

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20398240.3/24

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23104447.1/29

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

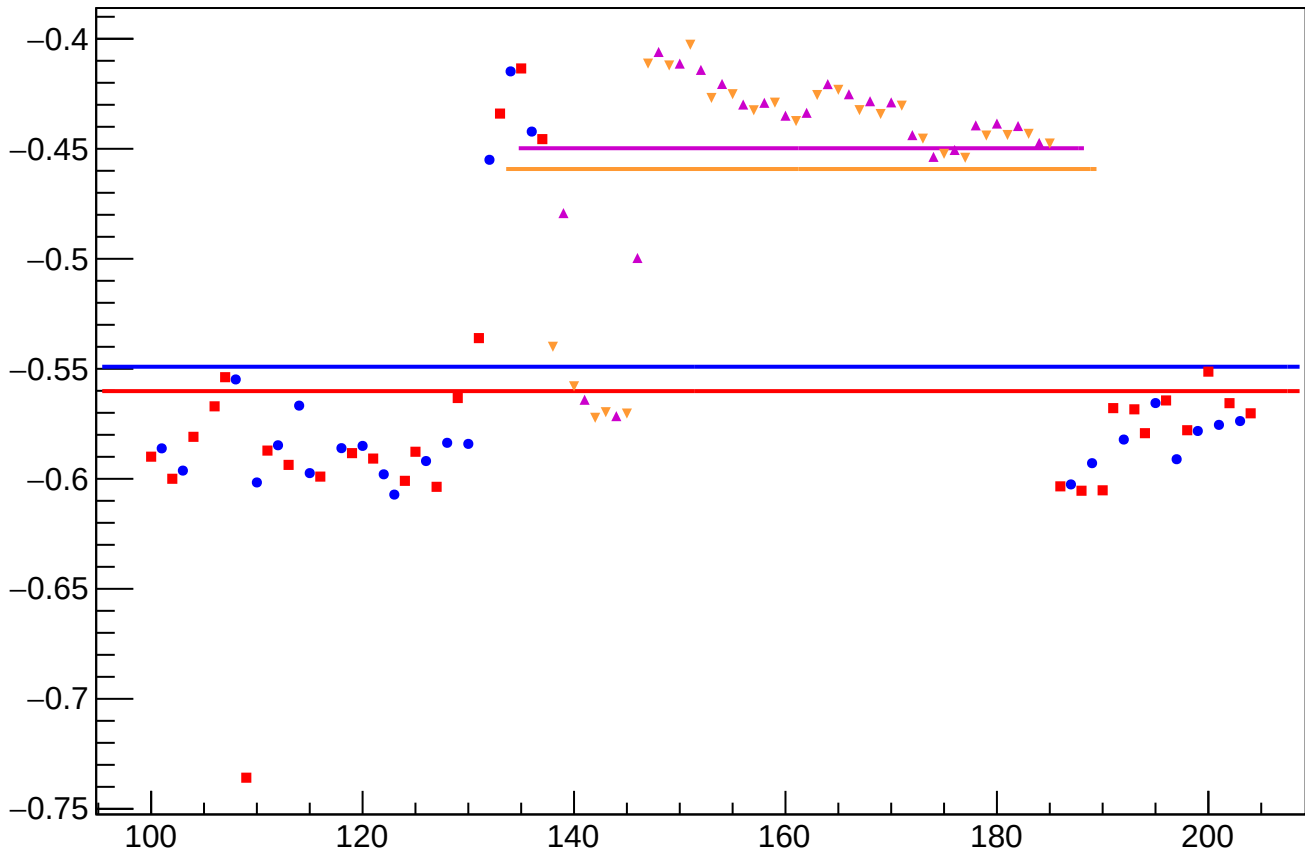
Right: 0.000+/-0.000 χ^2/NDF : 43502693.6/54

In: 0.000+/-0.000 χ^2/NDF : 51376586.4/47

Out: 0.000+/-0.000 χ^2/NDF : 55818225.2/54

All: 0.000+/-0.000 χ^2/NDF : 107195209.5/102

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.549+/-0.000 χ^2/NDF : 47812829.1/24

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65324359.2/29

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

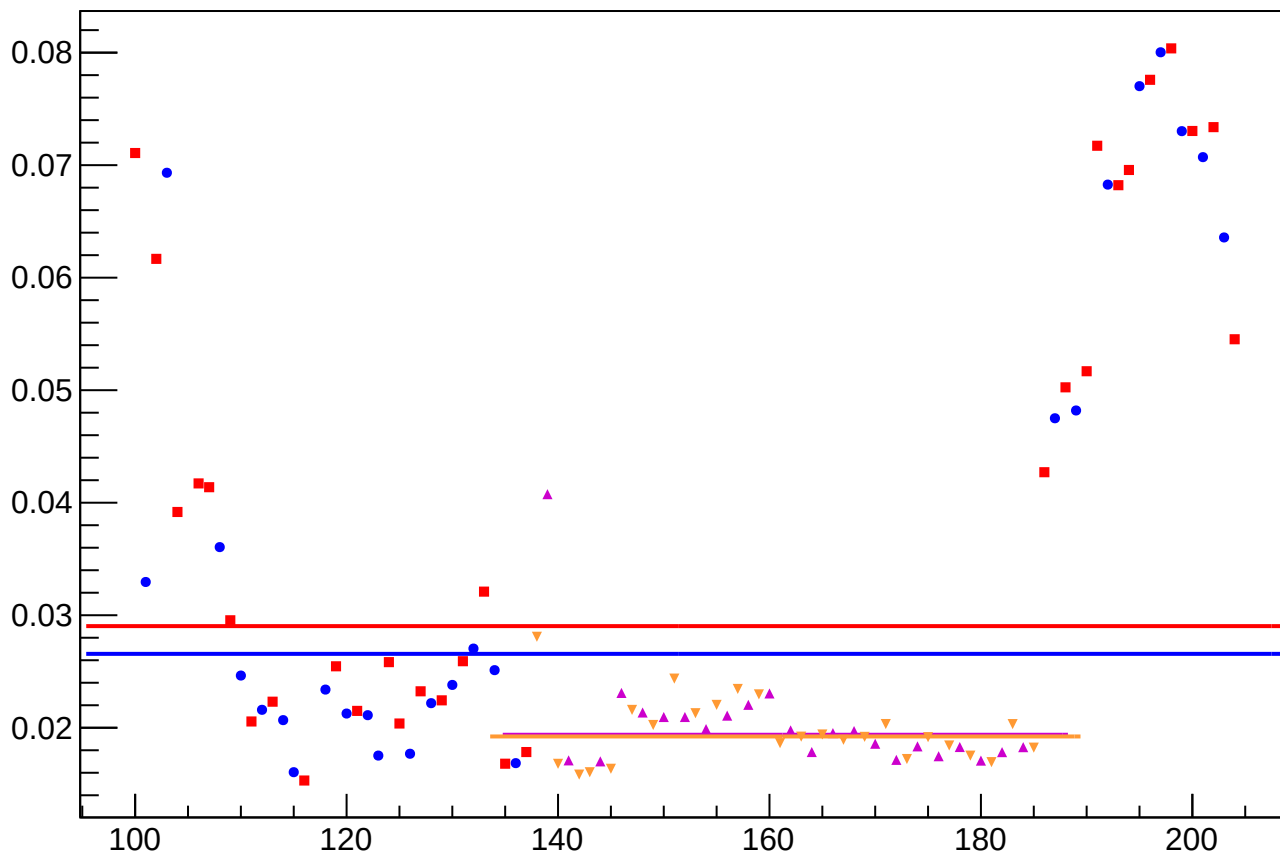
Right: -0.555+/-0.000 χ^2/NDF : 113847781.4/54

In: -0.473+/-0.000 χ^2/NDF : 211043692.4/47

Out: -0.482+/-0.000 χ^2/NDF : 270782003.3/54

All: -0.478+/-0.000 χ^2/NDF : 483669494.5/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5416075.3/24

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6040190.7/29

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

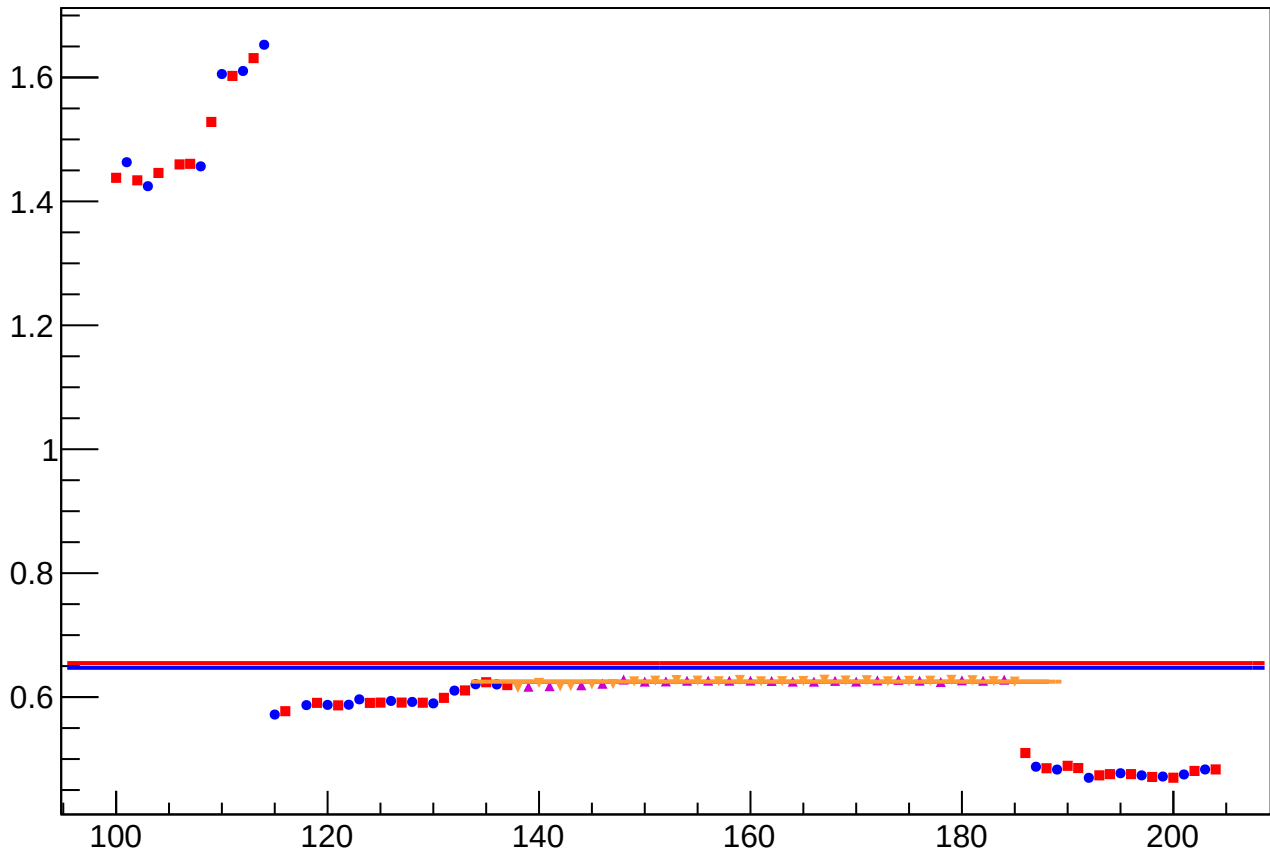
Right: 0.028+/-0.000 χ^2/NDF : 11526589.0/54

In: 0.021+/-0.000 χ^2/NDF : 6985238.2/47

Out: 0.021+/-0.000 χ^2/NDF : 8271376.9/54

All: 0.021+/-0.000 χ^2/NDF : 15262531.2/102

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.647 $\pm$ 0.000 χ^2 /NDF: 4842980443.9/24

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.655 $\pm$ 0.000 χ^2 /NDF: 5937281902.9/29

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

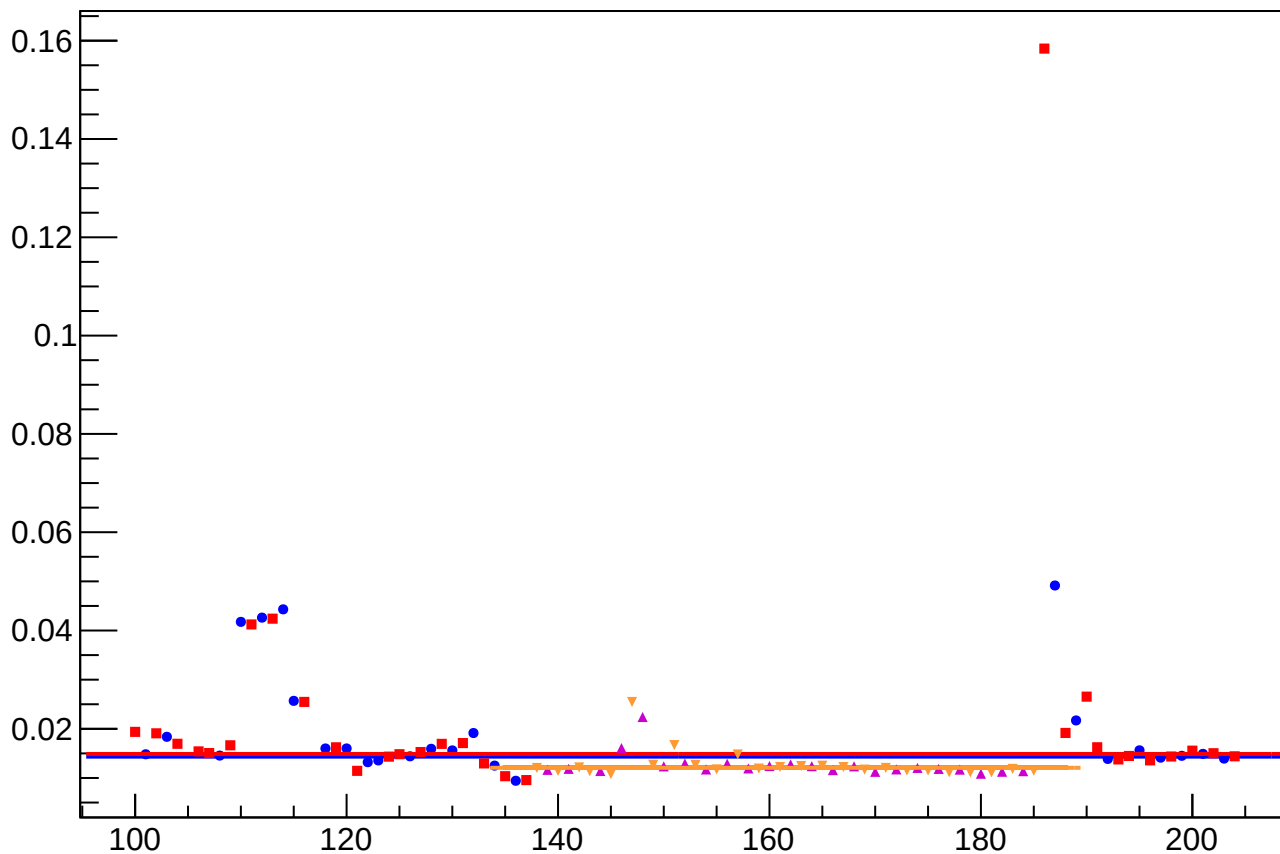
Right: 0.651 $\pm$ 0.000 χ^2 /NDF: 10781831798.9/54

In: 0.632 $\pm$ 0.000 χ^2 /NDF:4862161577.0/47

Out: 0.634 $\pm$ 0.000 χ^2 /NDF:5973177603.7/54

All: 0.633 $\pm$ 0.000 χ^2 /NDF: 10835874425.9/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1643105.6/24

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2073748.1/29

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488249.4/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146144.5/47

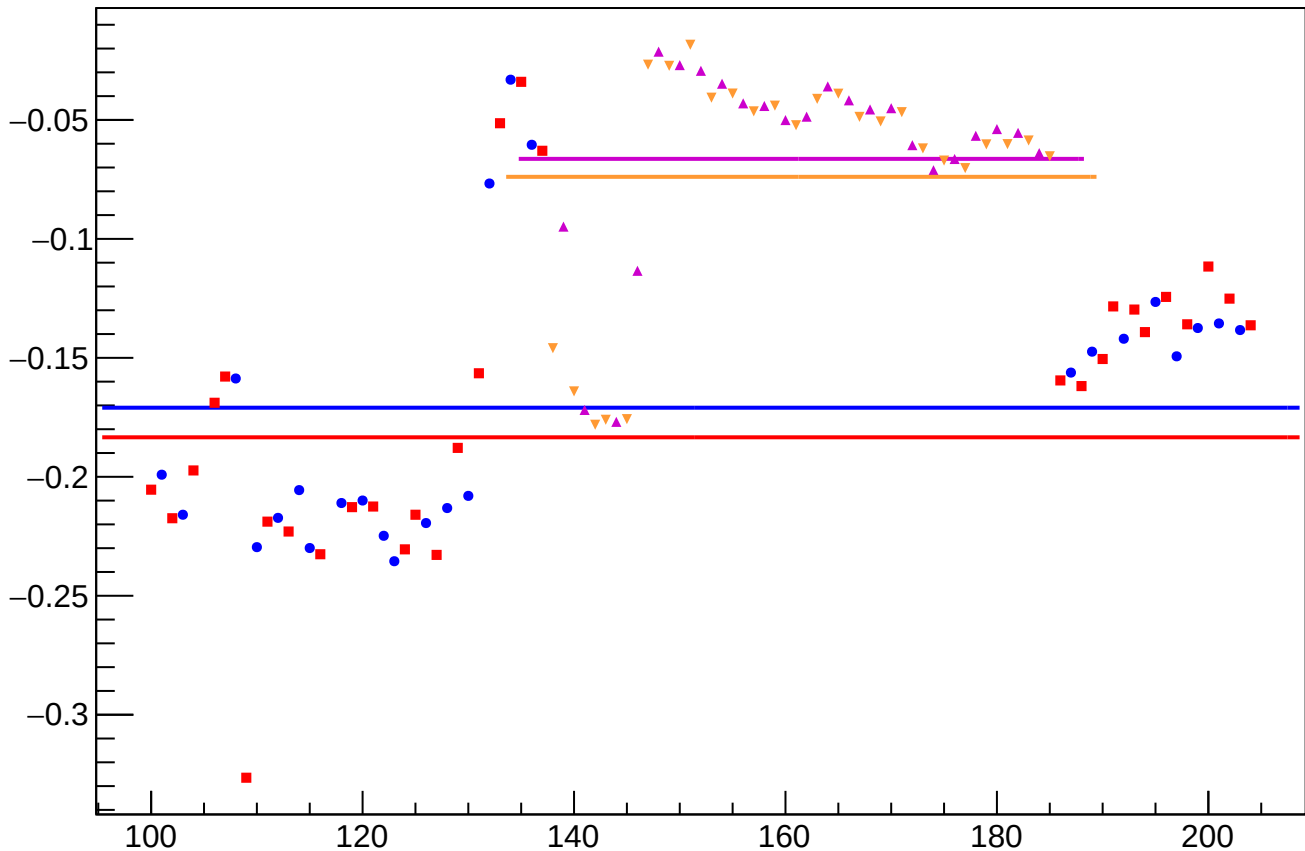
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3732605.4/54

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2480803.7/47

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3336352.3/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5820134.3/102

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68172301.1/24

Left Out: -0.074+/-0.000 χ^2/NDF :107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85774322.1/29

Left In: -0.066+/-0.000 χ^2/NDF :76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

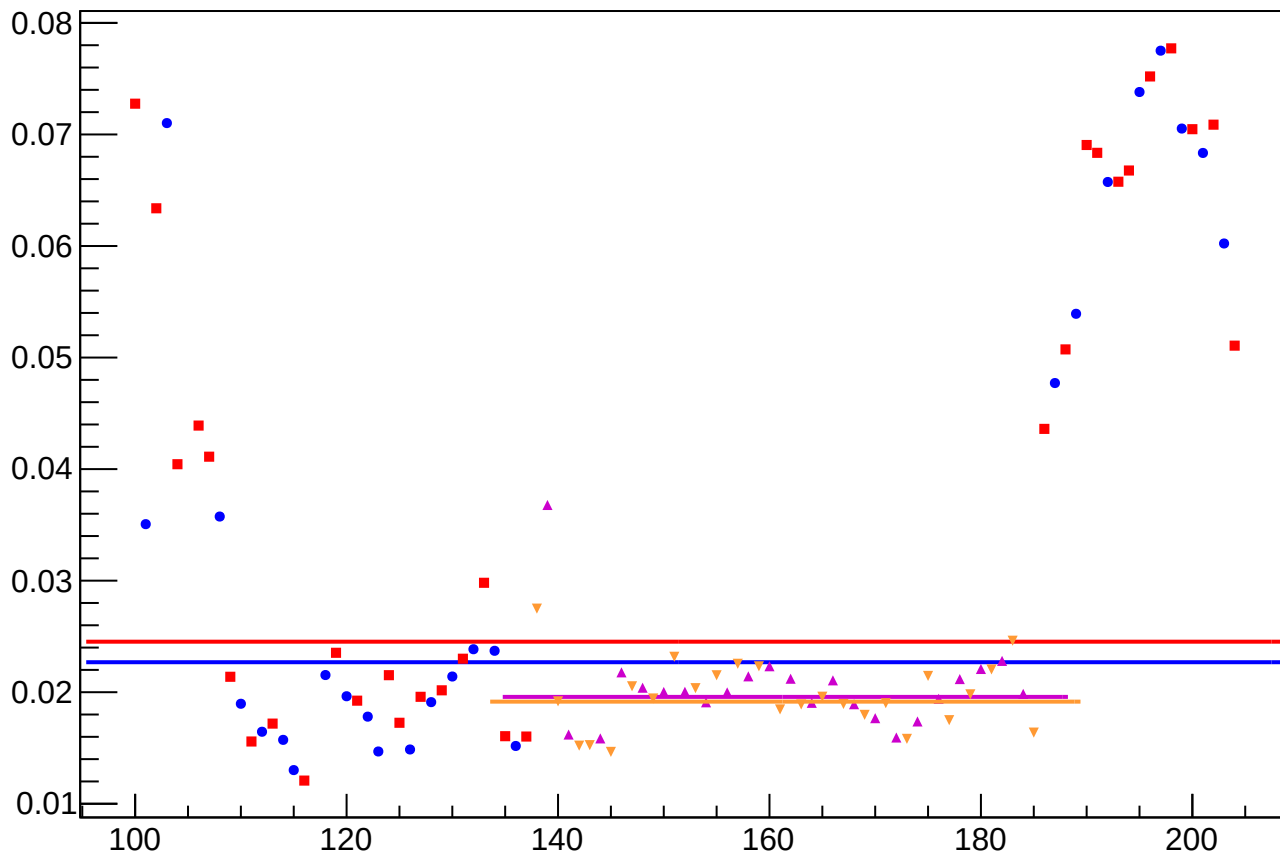
Right: -0.177+/-0.000 χ^2/NDF : 155117007.1/54

In: -0.096+/-0.000 χ^2/NDF :261924777.3/47

Out: -0.103+/-0.000 χ^2/NDF :326641049.1/54

All: -0.100+/-0.000 χ^2/NDF : 589914745.7/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6289071.5/24

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7334496.1/29

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

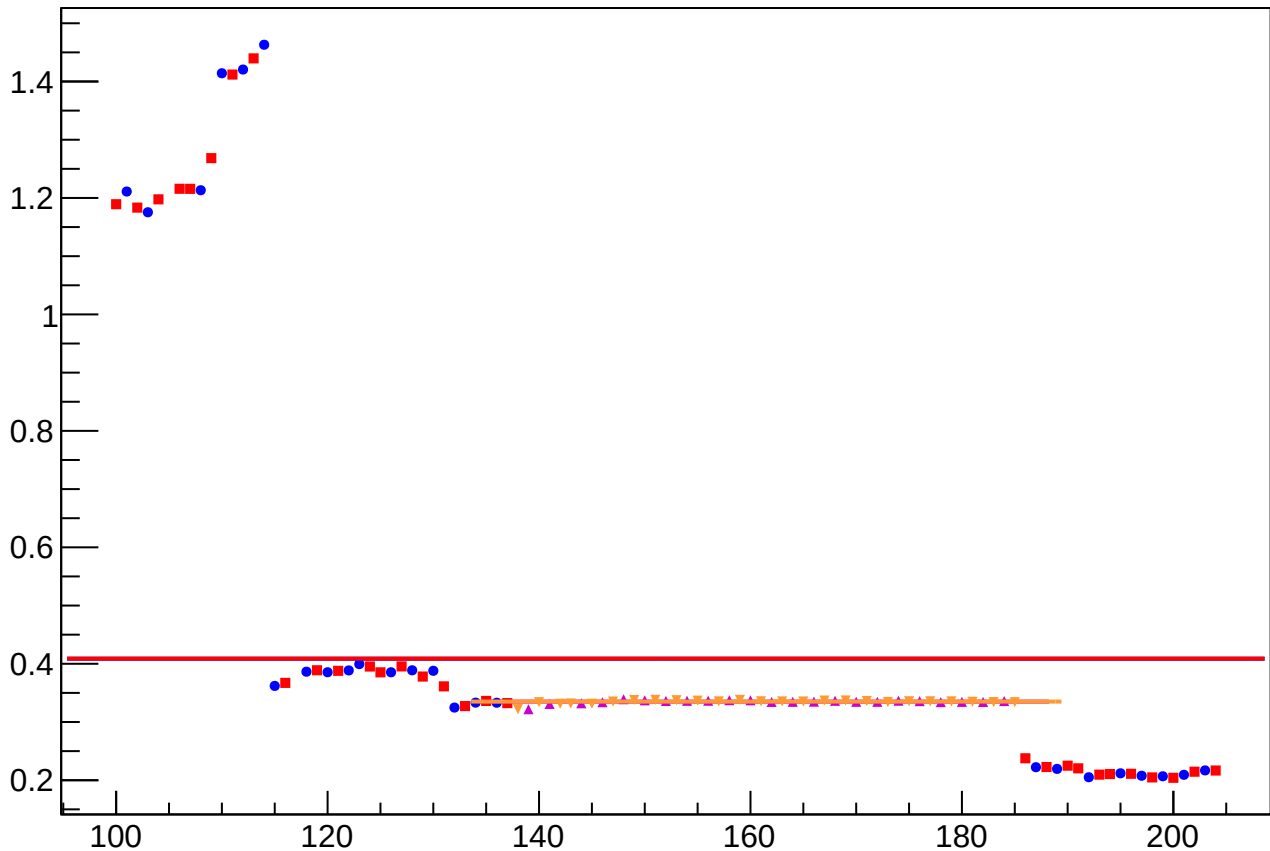
Right: 0.024+/-0.000 χ^2/NDF : 13674805.7/54

In: 0.020+/-0.000 χ^2/NDF : 7147821.8/47

Out: 0.021+/-0.000 χ^2/NDF : 8616490.5/54

All: 0.021+/-0.000 χ^2/NDF : 15765237.6/102

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.409+/-0.000 χ^2/NDF : 7151950786.5/24

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.409+/-0.000 χ^2/NDF : 8380390045.3/29

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

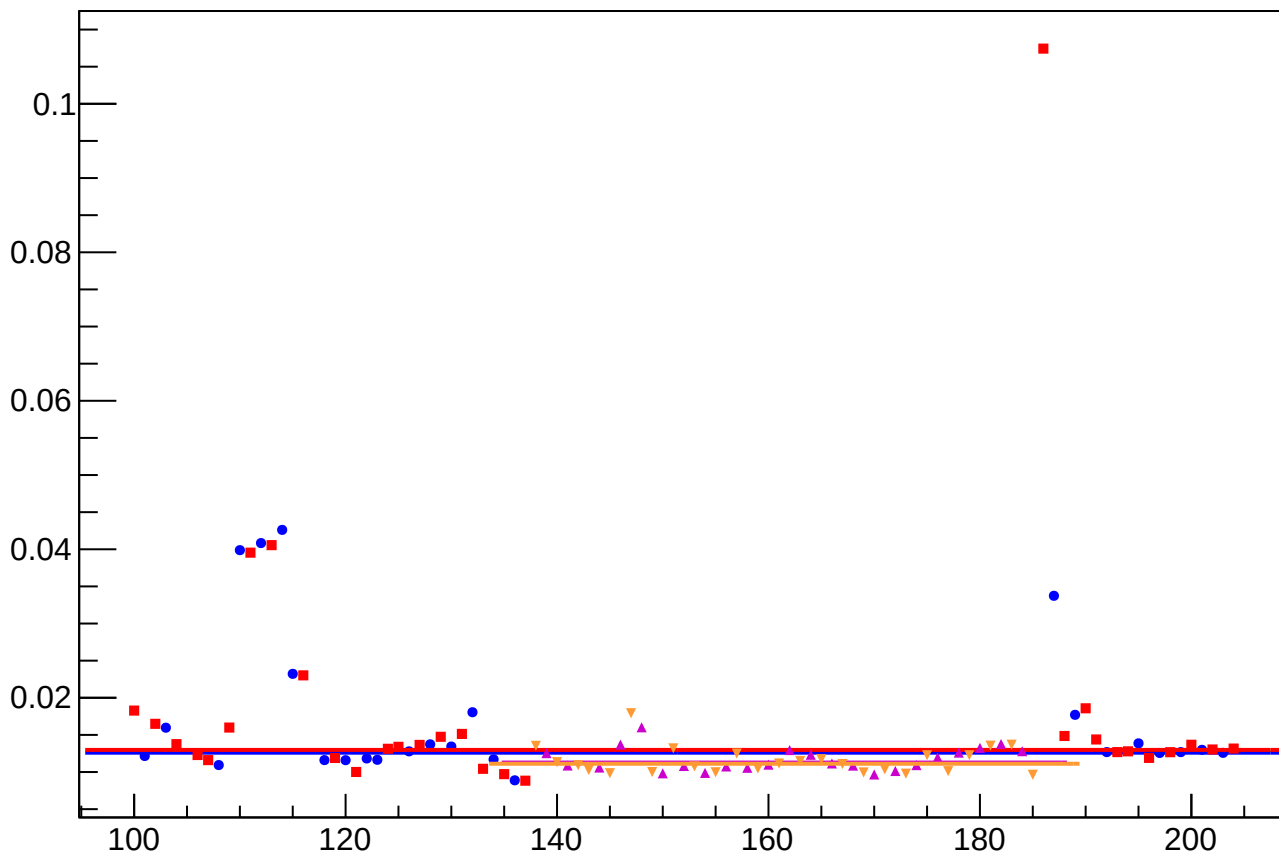
Right: 0.409+/-0.000 χ^2/NDF : 15532341902.6/54

In: 0.360+/-0.000 χ^2/NDF :7395459483.5/47

Out: 0.360+/-0.000 χ^2/NDF :8644619749.7/54

All: 0.360+/-0.000 χ^2/NDF : 16040080596.4/101

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1510264.5/24

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1933627.5/29

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

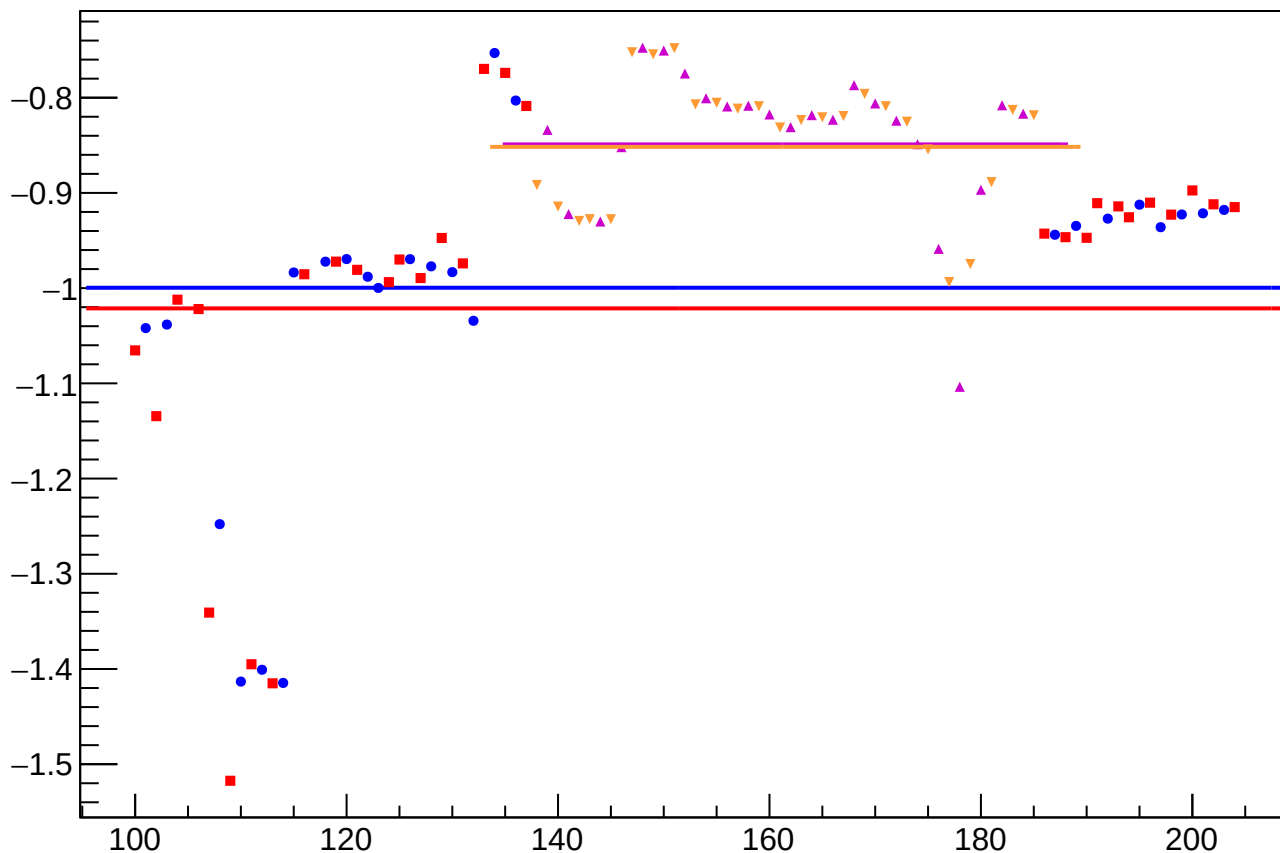
Right: 0.013+/-0.000 χ^2/NDF : 3453689.6/54

In: 0.012+/-0.000 χ^2/NDF : 2170730.9/47

Out: 0.012+/-0.000 χ^2/NDF : 2877242.8/54

All: 0.012+/-0.000 χ^2/NDF : 5048083.3/102

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.000 $\pm$ 0.000 χ^2 /NDF: 400796473.5/24

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.021 $\pm$ 0.000 χ^2 /NDF: 554974677.3/29

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

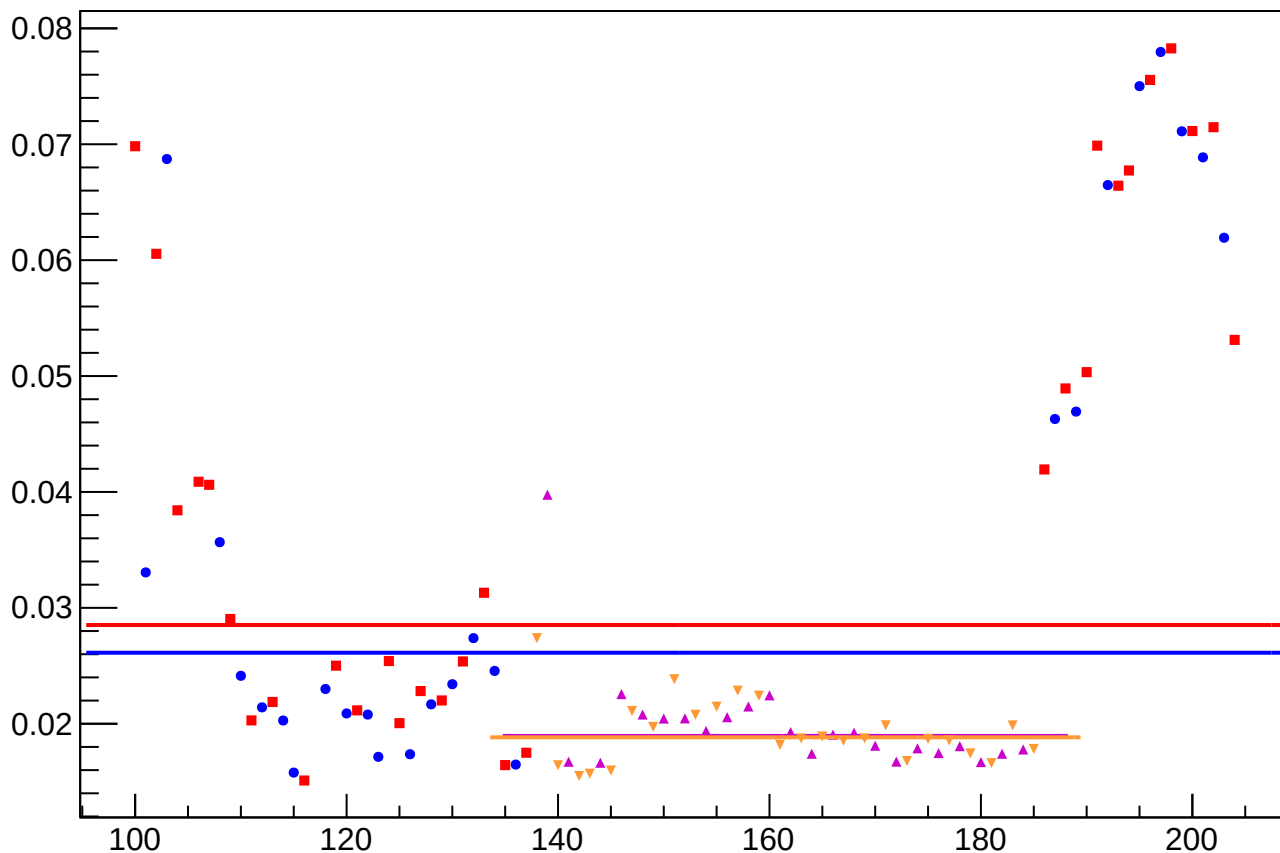
Right: -1.010 $\pm$ 0.000 χ^2 /NDF: 958593708.2/54

In: -0.884 $\pm$ 0.000 χ^2 /NDF:864949343.0/47

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1013131847.7/54

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1878769383.2/100

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 5395274.5/24

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 490084.5/24

Right Out: 0.029 $\pm$ 0.000 χ^2 /NDF: 5984076.0/29

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

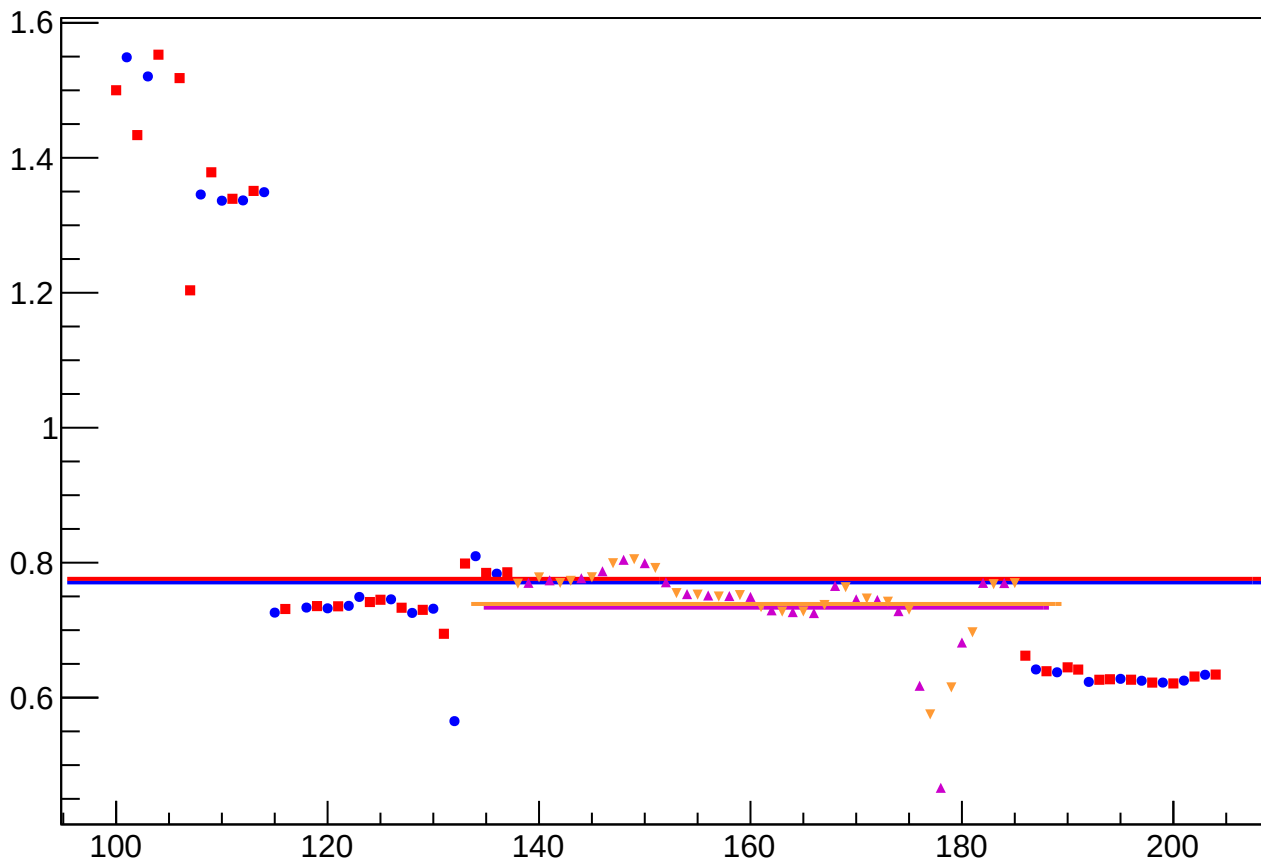
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 11447910.7/54

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 6984876.8/47

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 8228896.4/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 15220418.4/102

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.771 $\pm$ 0.000 χ^2/NDF : 3315716894.6/24

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF :333086309.0/24

Right Out: 0.776 $\pm$ 0.000 χ^2/NDF : 3681962782.6/29

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 905100069.4/47

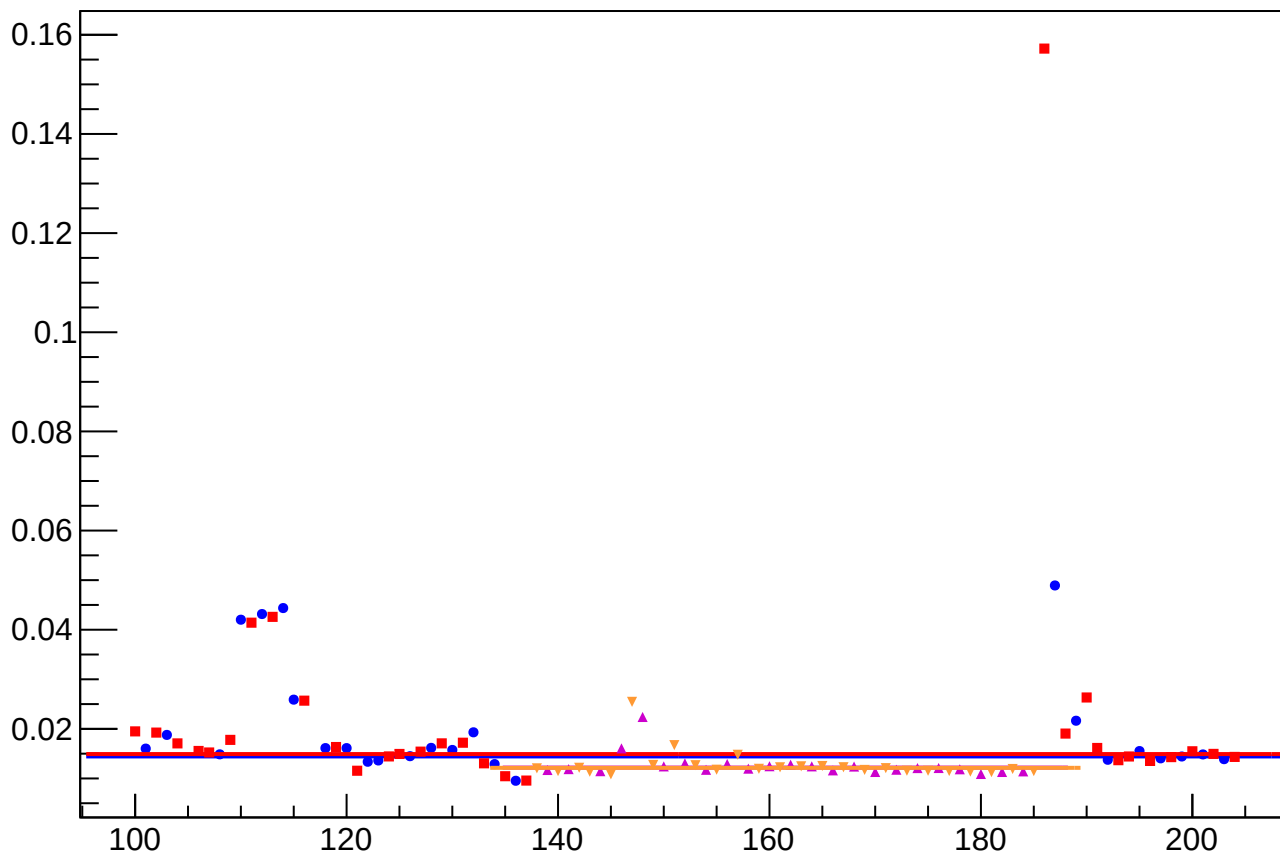
Right: 0.774 $\pm$ 0.000 χ^2/NDF : 6998427278.5/54

In: 0.745 $\pm$ 0.000 χ^2/NDF :3935419996.3/47

Out: 0.751 $\pm$ 0.000 χ^2/NDF :4067637993.2/54

All: 0.748 $\pm$ 0.000 χ^2/NDF : 8005721202.3/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1644508.7/24

Left Out: 0.012+/-0.000 χ^2/NDF :638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2078113.9/29

Left In: 0.012+/-0.000 χ^2/NDF :481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

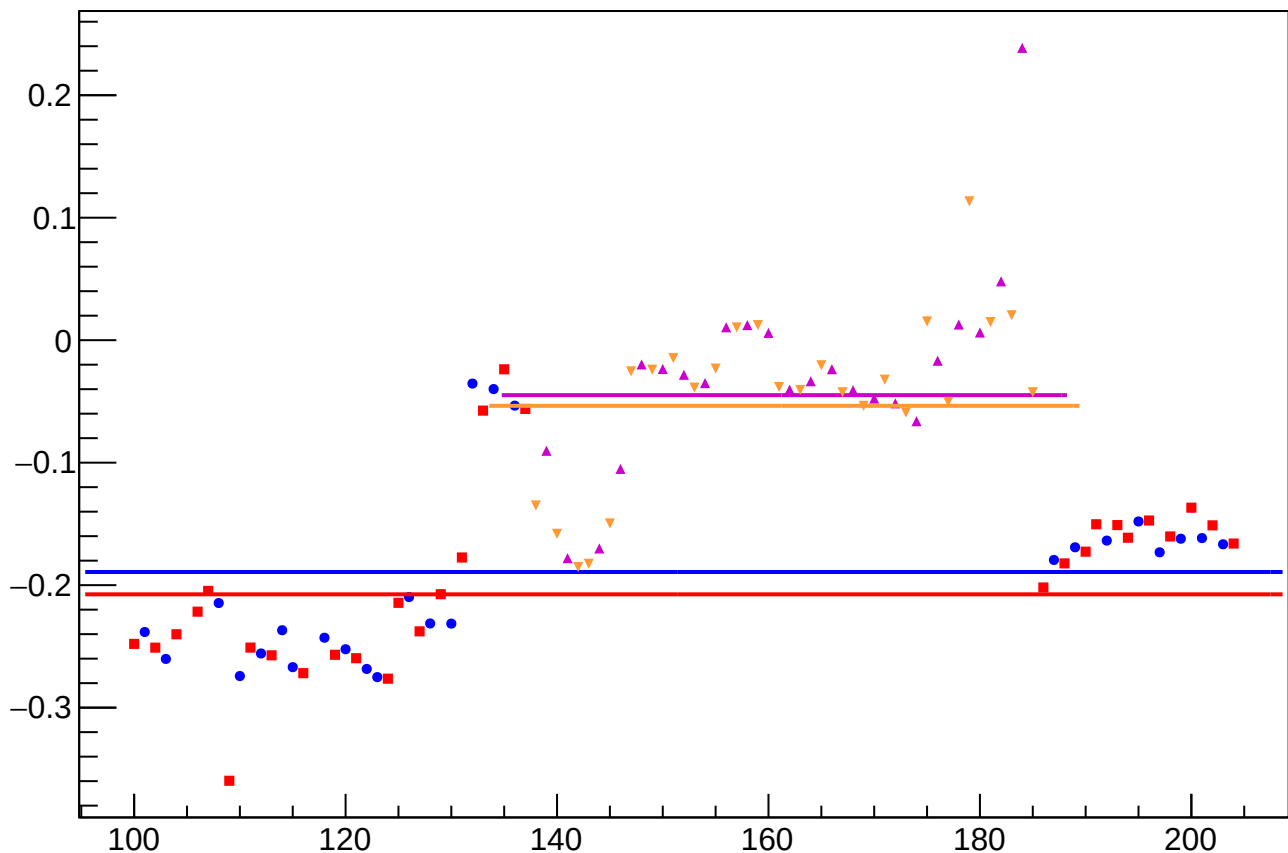
Right: 0.015+/-0.000 χ^2/NDF : 3734848.2/54

In: 0.013+/-0.000 χ^2/NDF :2483556.8/47

Out: 0.013+/-0.000 χ^2/NDF :3301724.7/54

All: 0.013+/-0.000 χ^2/NDF : 5788099.6/102

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189 ± 0.000 $\chi^2/\text{NDF}: 106843158.1/24$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 113729247.2/29$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

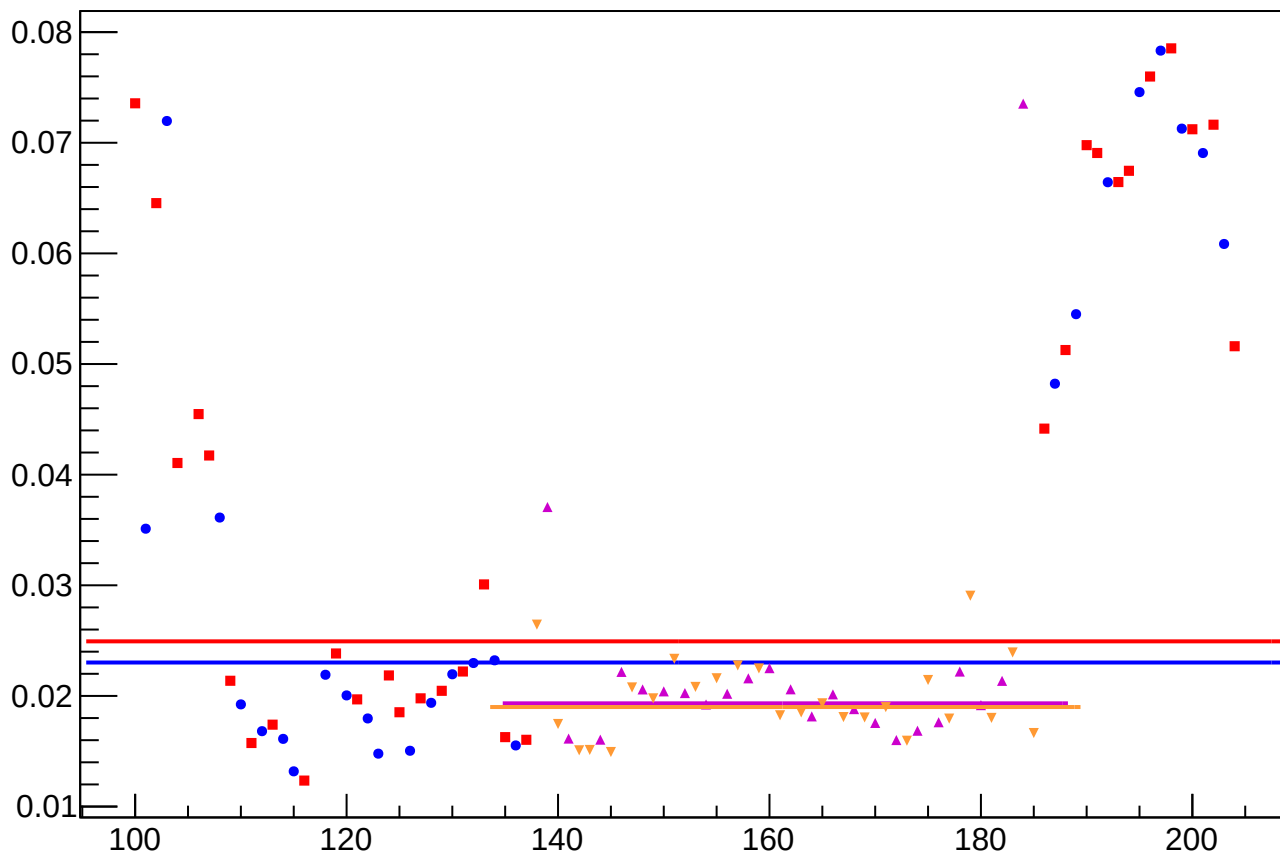
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 223016313.1/54$

In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 453495438.5/47$

Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 537387820.4/54$

All: -0.090 ± 0.000 $\chi^2/\text{NDF}: 993027840.7/10$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.000 χ^2 /NDF: 6241773.4/24

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7291278.1/29

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

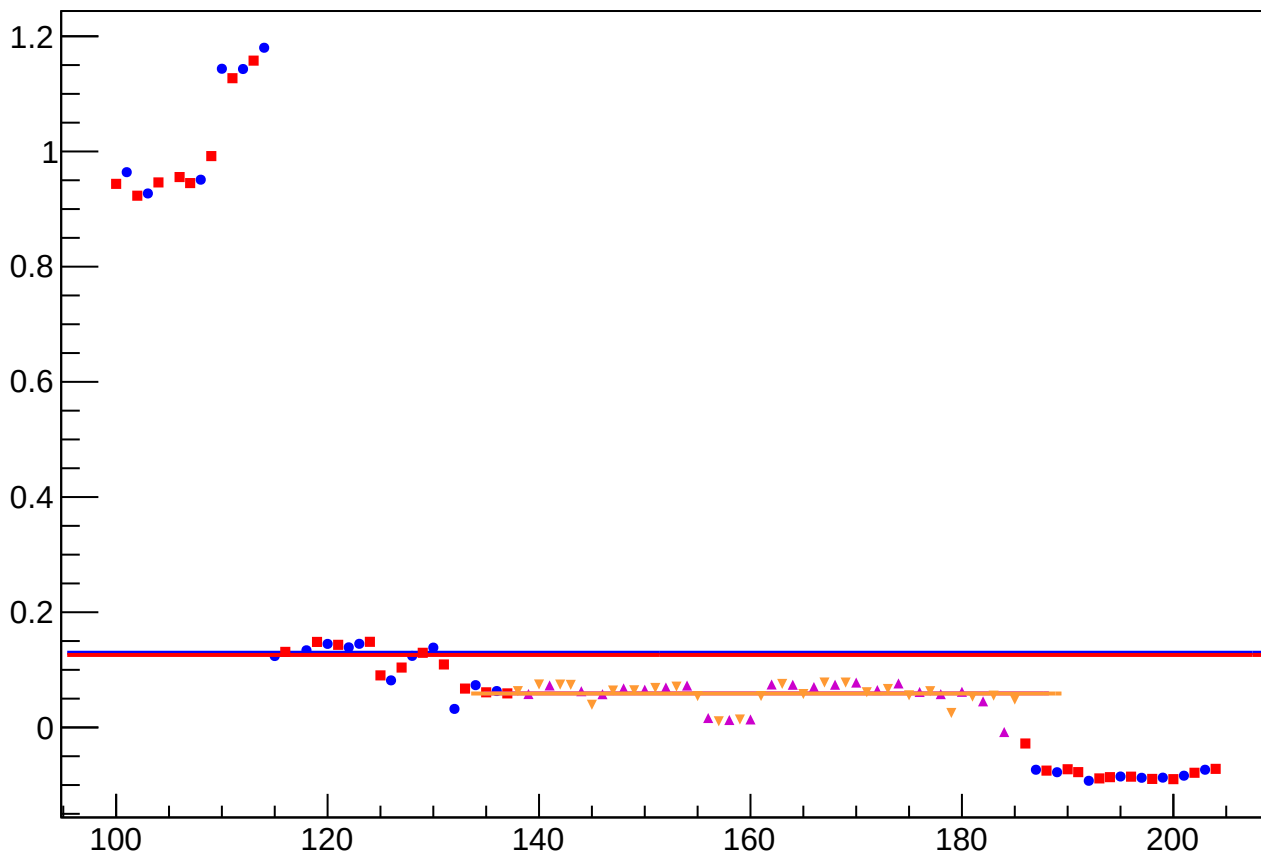
Right: 0.024 $\pm$ 0.000 χ^2 /NDF: 13586761.2/54

In: 0.020 $\pm$ 0.000 χ^2 /NDF:7421179.3/47

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:8751578.4/54

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 16175014.9/102

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.130+/-0.000 χ^2/NDF : 7695201125.7/24

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.126+/-0.000 χ^2/NDF : 8817932921.6/29

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

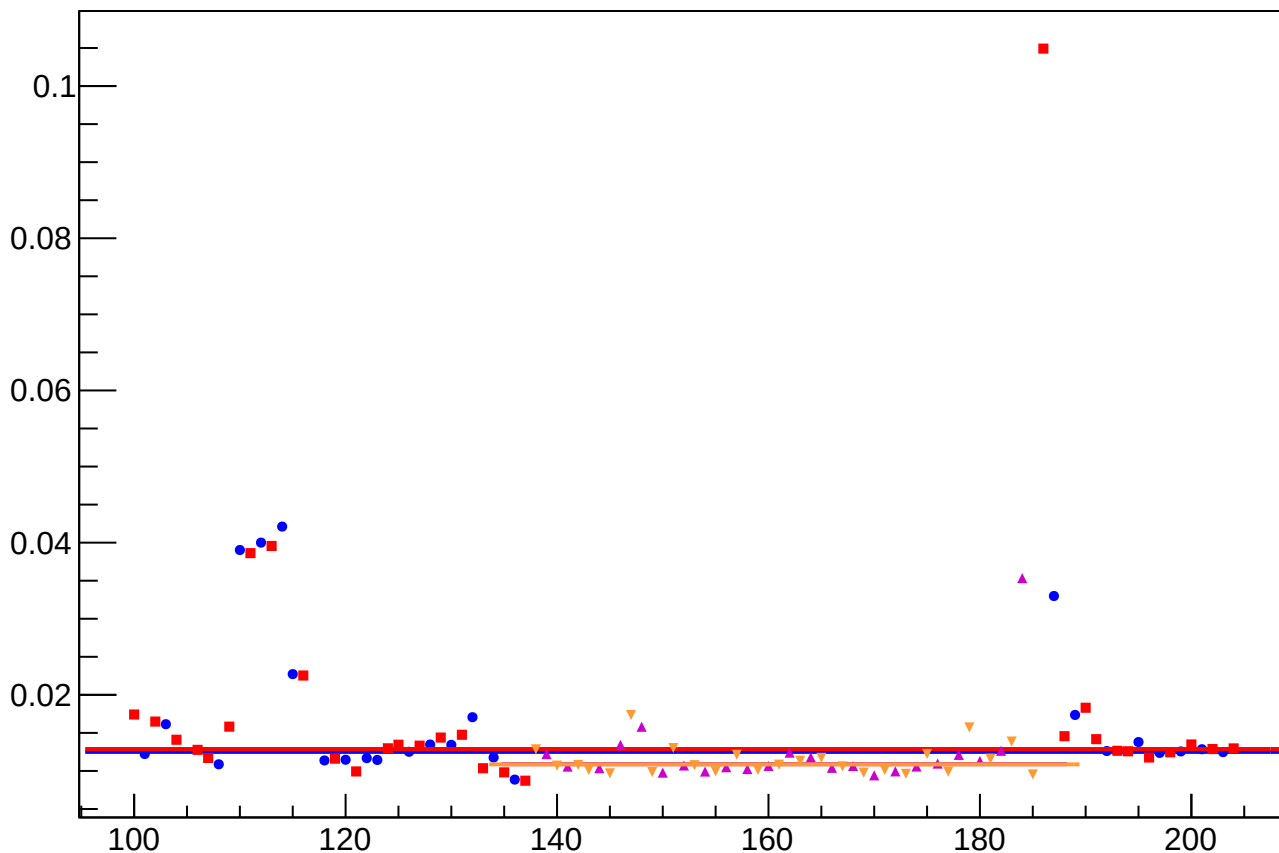
Right: 0.128+/-0.000 χ^2/NDF : 16513648168.6/54

In: 0.083+/-0.000 χ^2/NDF : 7981527850.5/47

Out: 0.082+/-0.000 χ^2/NDF : 9085361538.6/54

All: 0.082+/-0.000 χ^2/NDF : 17067007702.1/101

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1477135.4/24

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1891196.5/29

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

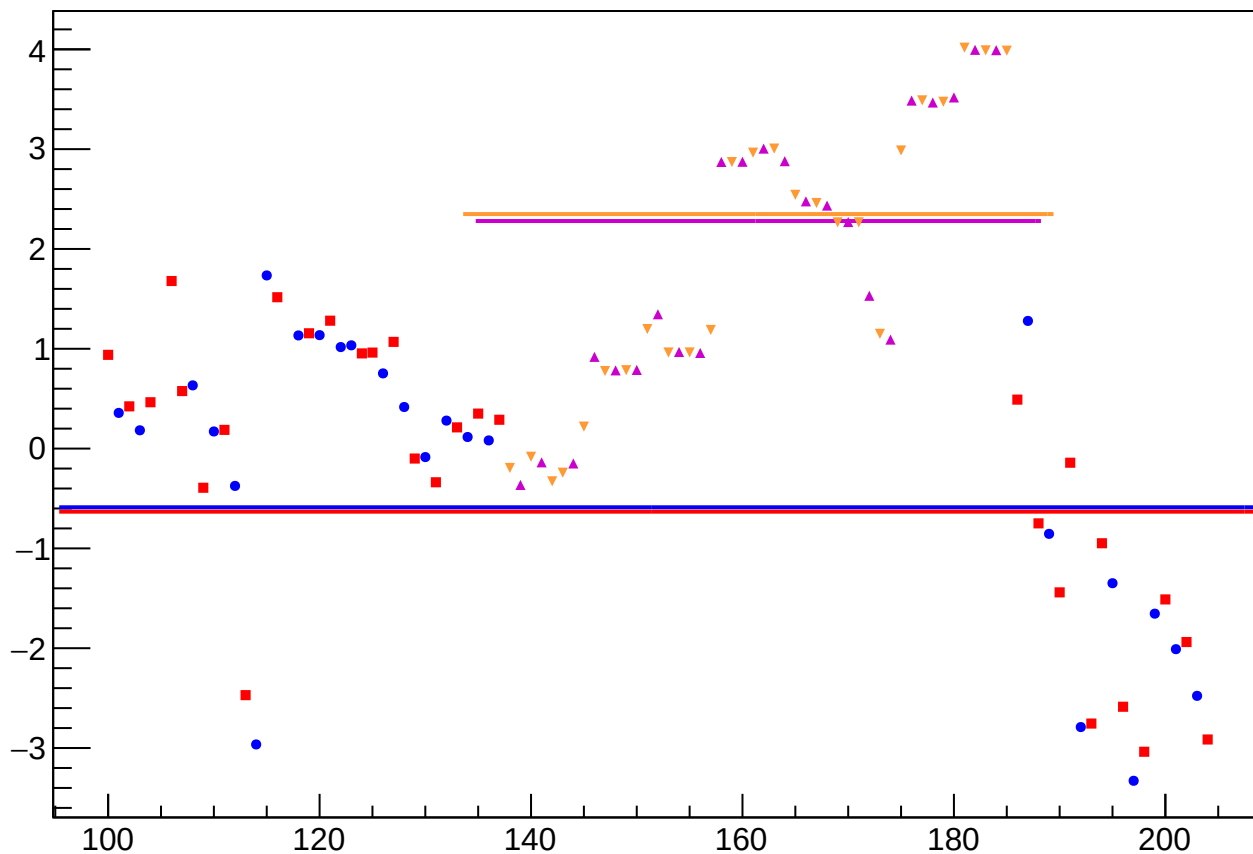
Right: 0.013+/-0.000 χ^2/NDF : 3378305.1/54

In: 0.011+/-0.000 χ^2/NDF : 2246040.1/47

Out: 0.012+/-0.000 χ^2/NDF : 2896017.4/54

All: 0.011+/-0.000 χ^2/NDF : 5145053.7/102

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.588+/-0.000 χ^2/NDF : 5572300161.9/24

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.632+/-0.000 χ^2/NDF : 7052651478.7/29

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

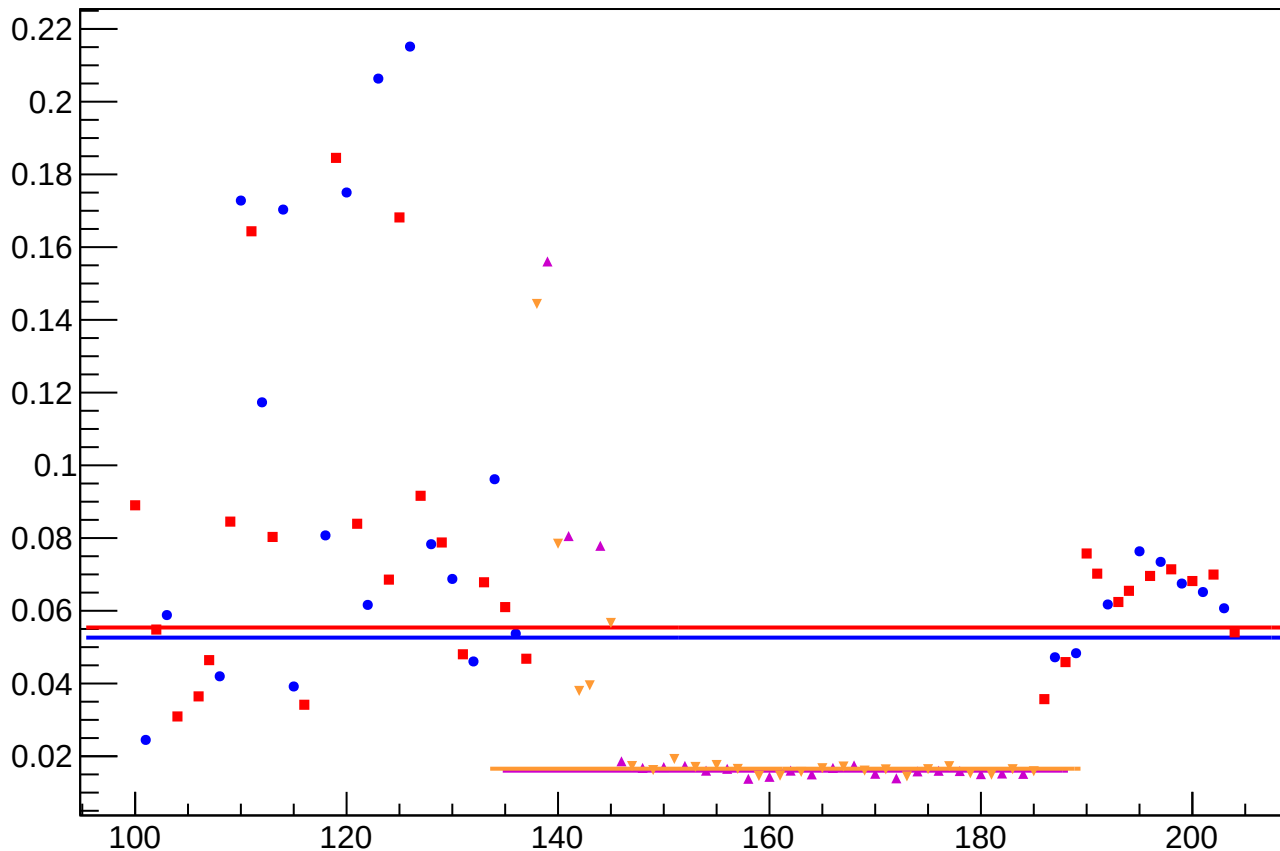
Right: -0.611+/-0.000 χ^2/NDF : 12628043457.0/54

In: 2.123+/-0.000 χ^2/NDF : 90478347736.8/47

Out: 2.163+/-0.000 χ^2/NDF : 99108417240.5/54

All: 2.143+/-0.000 χ^2/NDF : 189629300324.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3458900.5/24

Left Out: 0.017+/-0.000 χ^2/NDF :2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2837195.4/29

Left In: 0.016+/-0.000 χ^2/NDF :2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

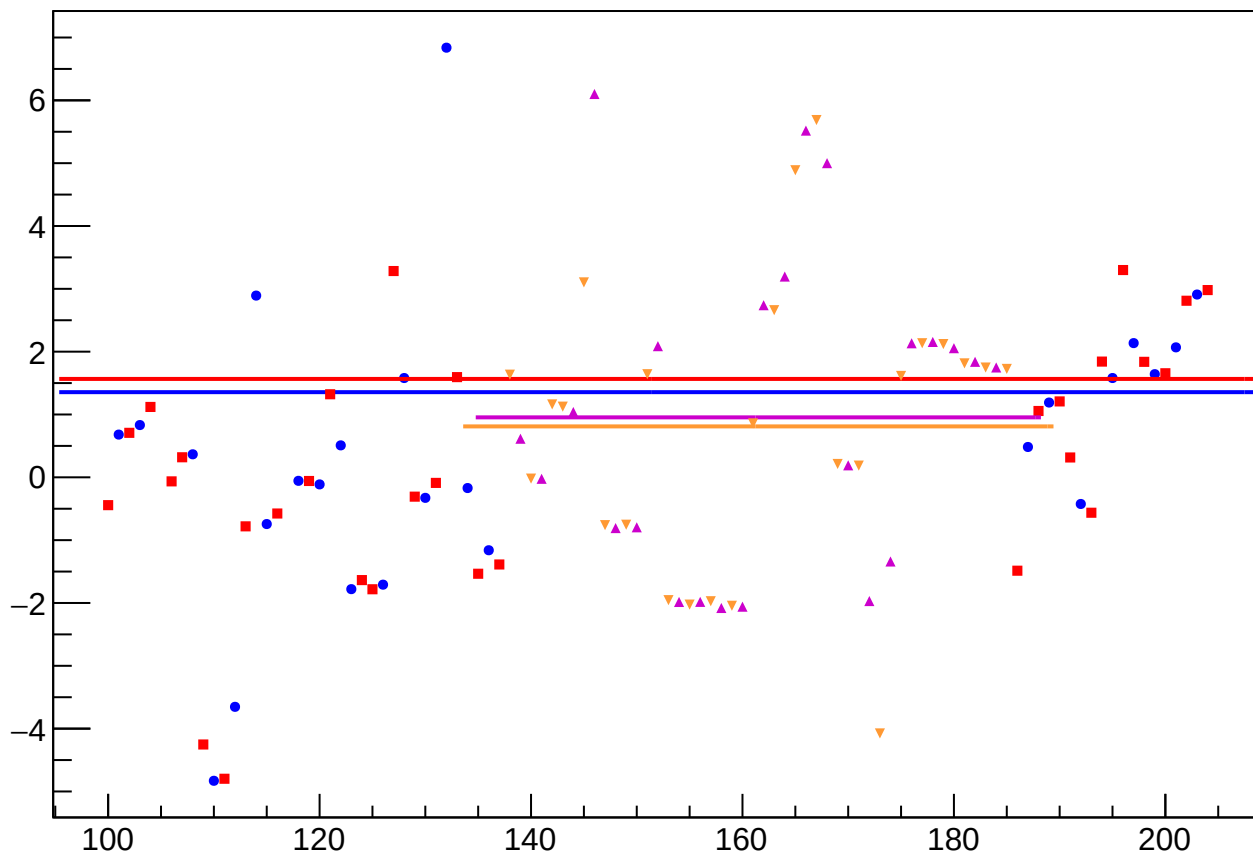
Right: 0.054+/-0.000 χ^2/NDF : 6320854.3/54

In: 0.018+/-0.000 χ^2/NDF :13560680.0/47

Out: 0.019+/-0.000 χ^2/NDF :15112700.1/54

All: 0.019+/-0.000 χ^2/NDF : 28725845.4/102

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.355+/-0.000

χ^2/NDF : 26255500102.2/24

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.469+/-0.000 χ^2/NDF : 58089616182.5/54

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.018+/-0.000 χ^2/NDF : 603244652710.0/47

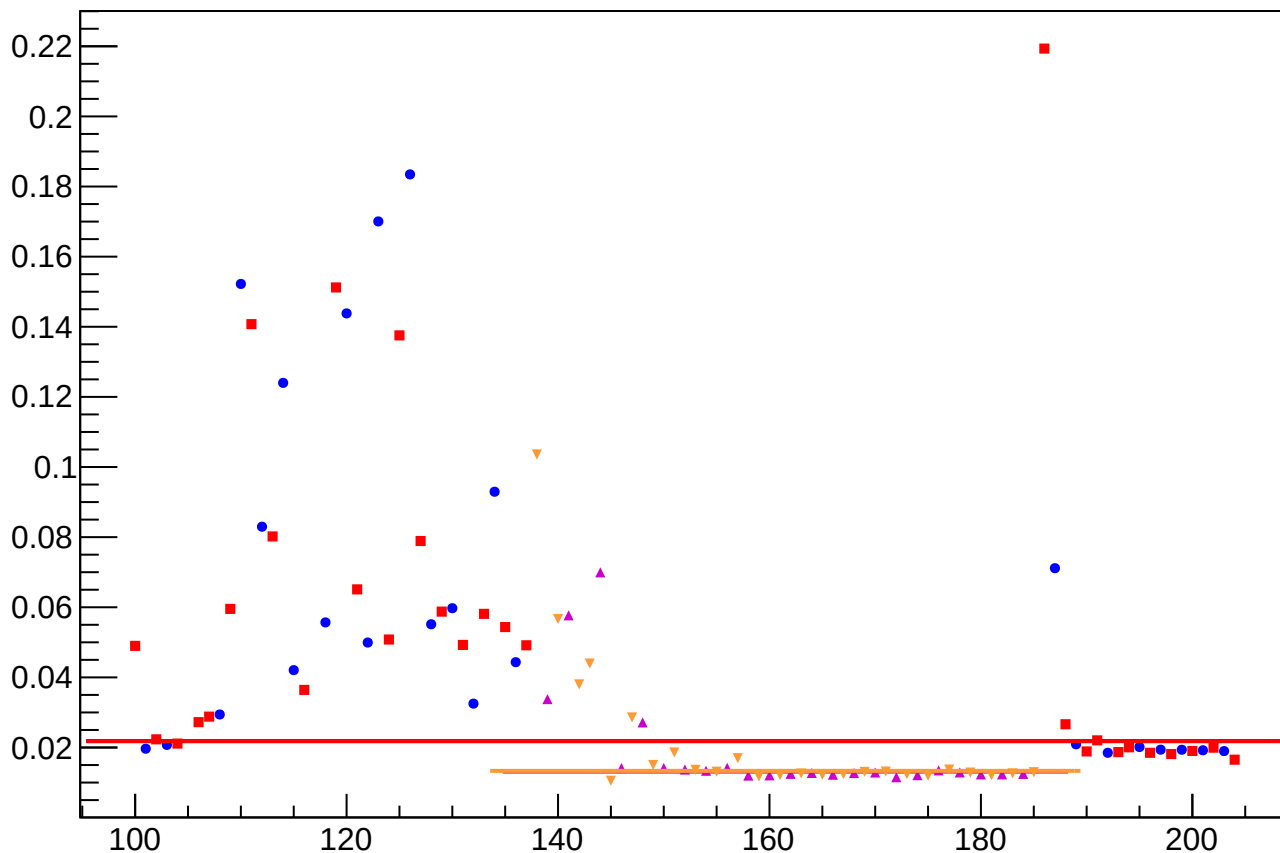
Right Out: 1.566+/-0.000 χ^2/NDF : 31445504250.1/29

Out: 0.949+/-0.000 χ^2/NDF : 547917888278.8/54

Left In: 0.954+/-0.000 χ^2/NDF : 574792794608.3/22

All: 0.983+/-0.000 χ^2/NDF : 1151412226405.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 3705923.9/24

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4918160.8/29

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

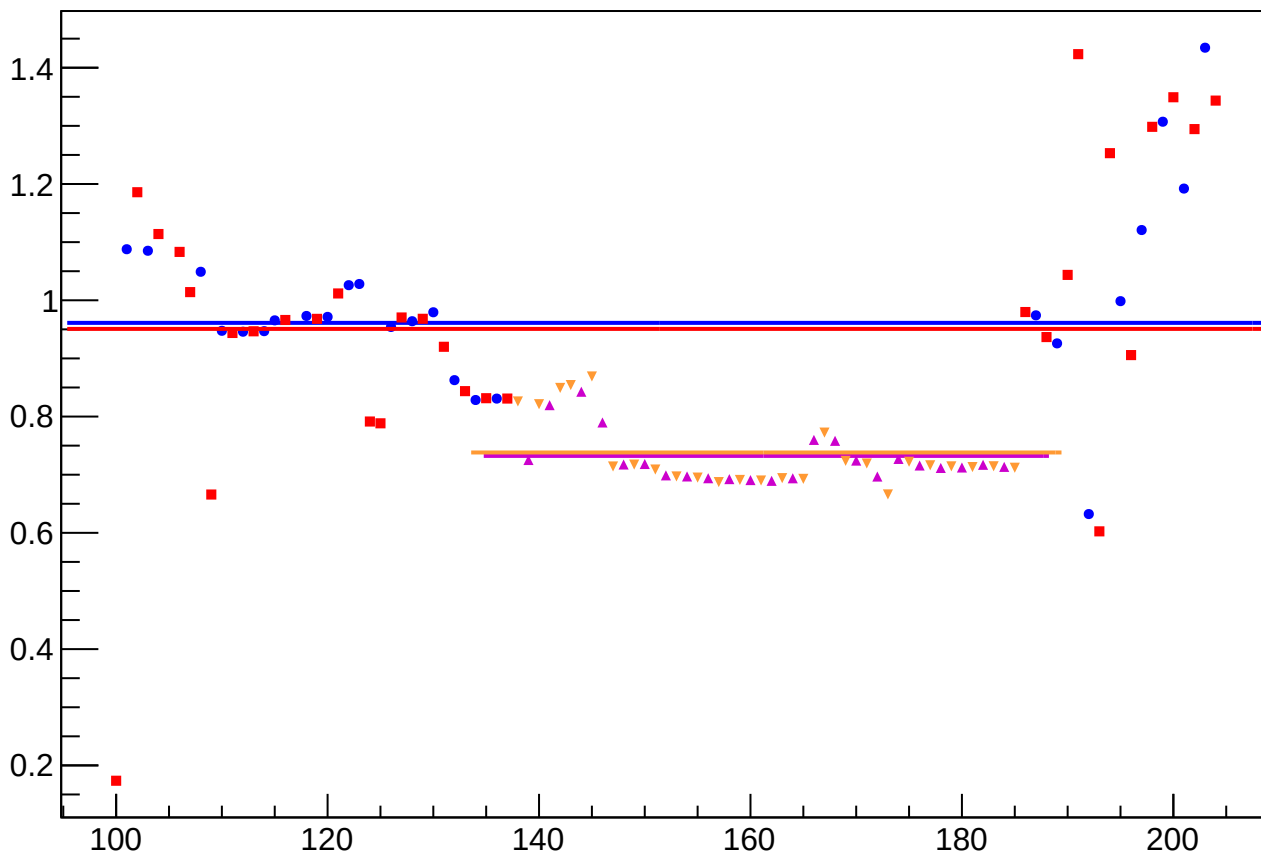
Right: 0.022+/-0.000 χ^2/NDF : 8624091.1/54

In: 0.015+/-0.000 χ^2/NDF :7741081.6/47

Out: 0.015+/-0.000 χ^2/NDF :9984727.2/54

All: 0.015+/-0.000 χ^2/NDF : 17739892.8/102

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961 $\pm$ 0.000 χ^2 /NDF: 566152926.3/24

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.951 $\pm$ 0.000 χ^2 /NDF: 995102043.3/29

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

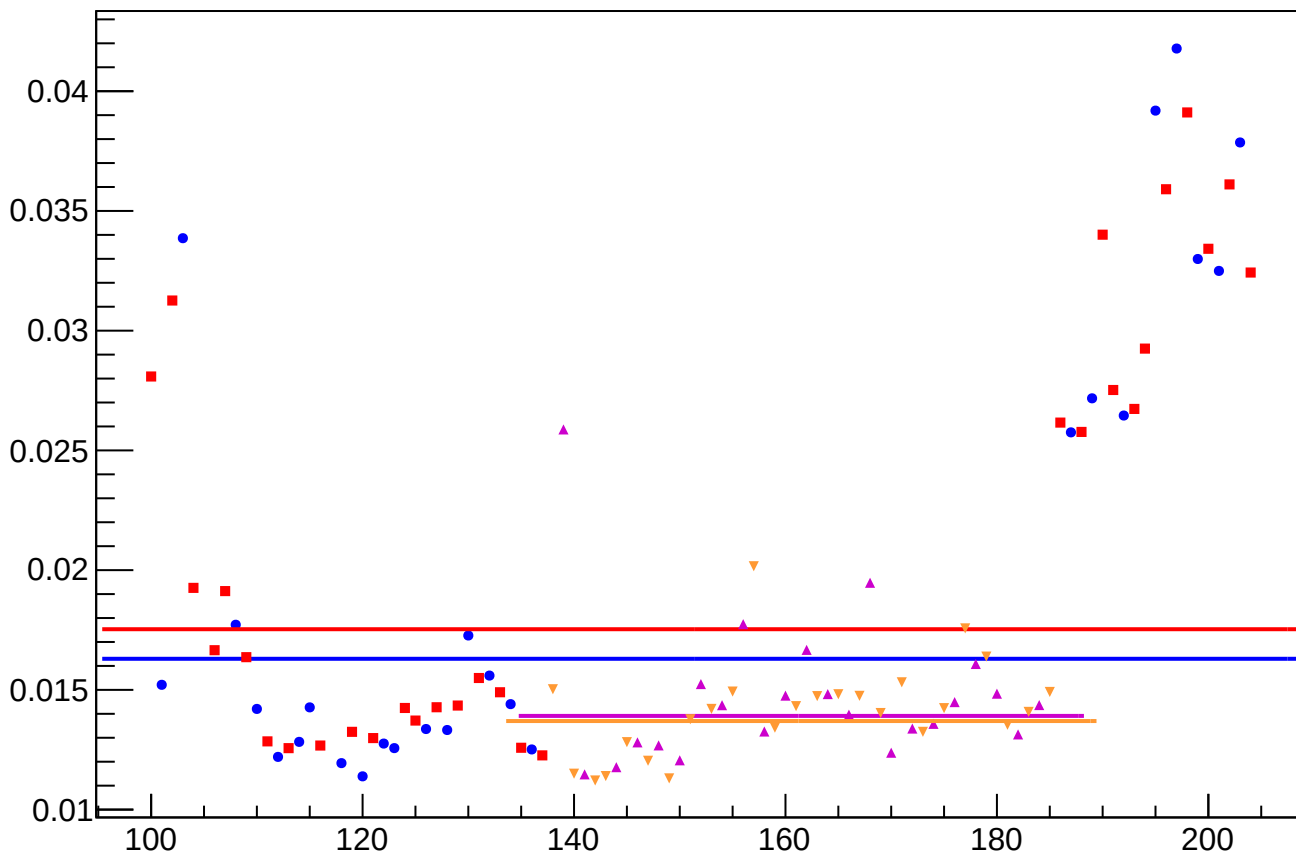
Right: 0.956 $\pm$ 0.000 χ^2 /NDF: 1563175990.6/54

In: 0.802 $\pm$ 0.000 χ^2 /NDF:2017567955.2/47

Out: 0.801 $\pm$ 0.000 χ^2 /NDF:2462007513.8/54

All: 0.802 $\pm$ 0.000 χ^2 /NDF: 4479615590.3/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3636196.2/24

Left Out: 0.014+/-0.000 χ^2/NDF :530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 3709005.7/29

Left In: 0.014+/-0.000 χ^2/NDF :794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

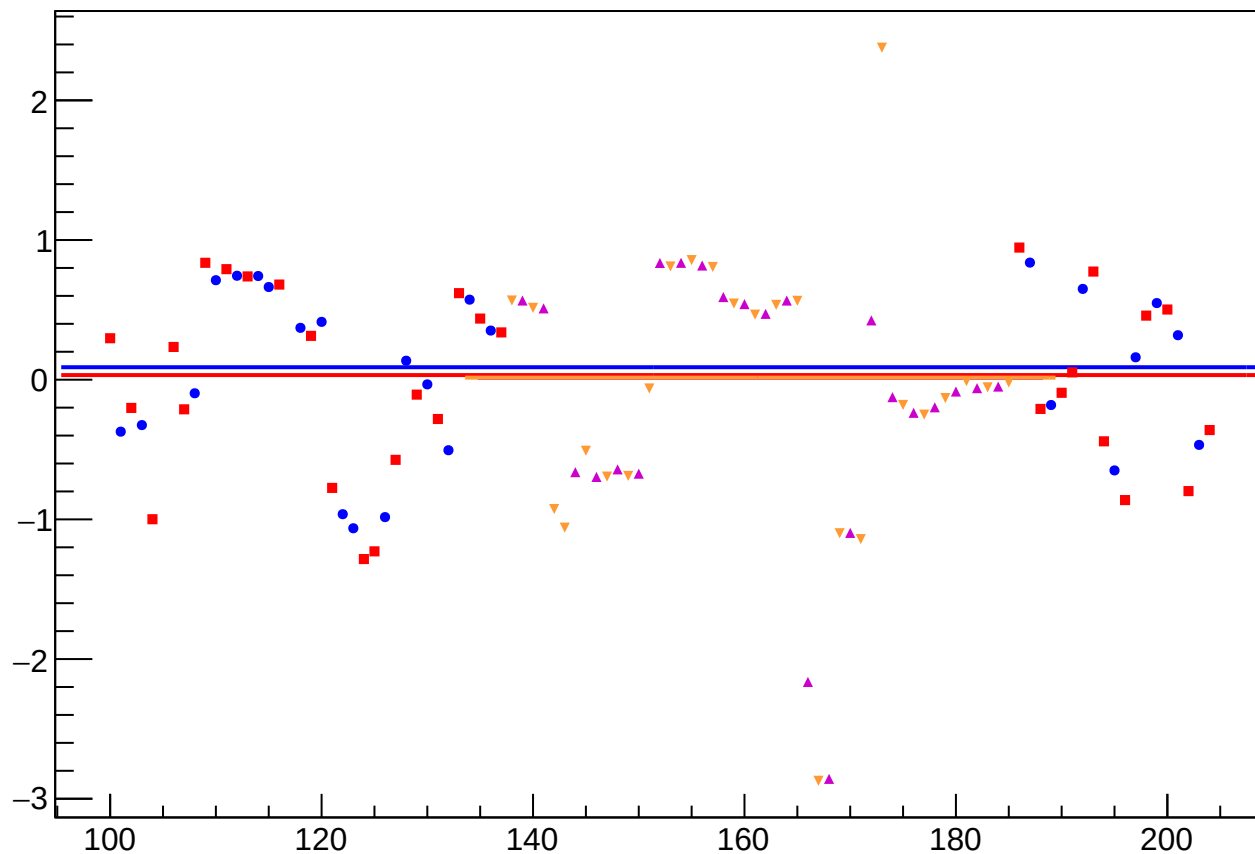
Right: 0.017+/-0.000 χ^2/NDF : 7399706.4/54

In: 0.015+/-0.000 χ^2/NDF :4709023.4/47

Out: 0.015+/-0.000 χ^2/NDF :4992587.2/54

All: 0.015+/-0.000 χ^2/NDF : 9706107.9/102

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.089+/-0.000

χ^2/NDF : 15748205179.4/24

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

Right: 0.058+/-0.000 χ^2/NDF : 44008079602.0/54

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

In: 0.041+/-0.000 χ^2/NDF : 95419523342.1/47

Right Out: 0.033+/-0.000 χ^2/NDF : 28153369353.8/29

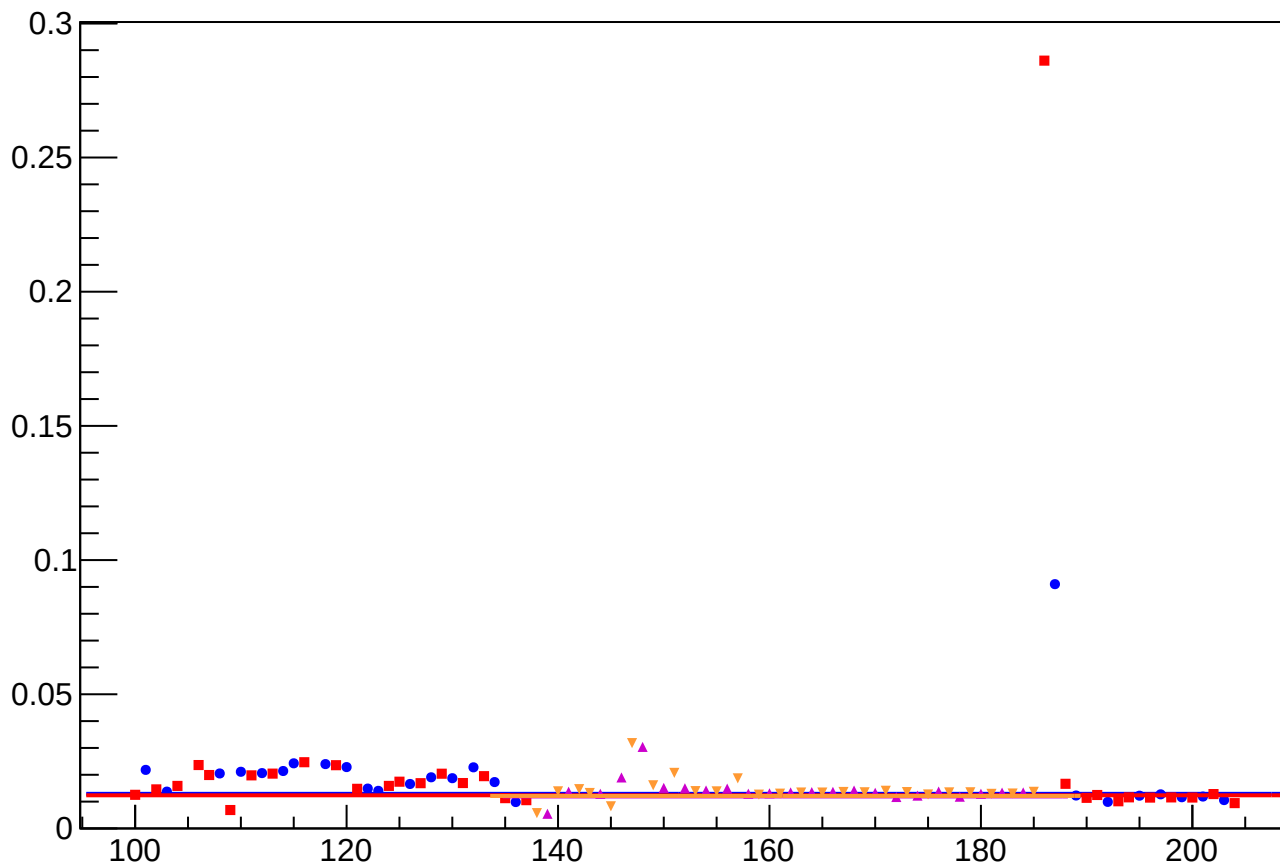
Out: 0.022+/-0.000 χ^2/NDF : 124256225078.6/54

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.031+/-0.000 χ^2/NDF : 219706089472.3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1909272.9/24

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3107648.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 2657790.1/29

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3105948.8/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6217411.2/47

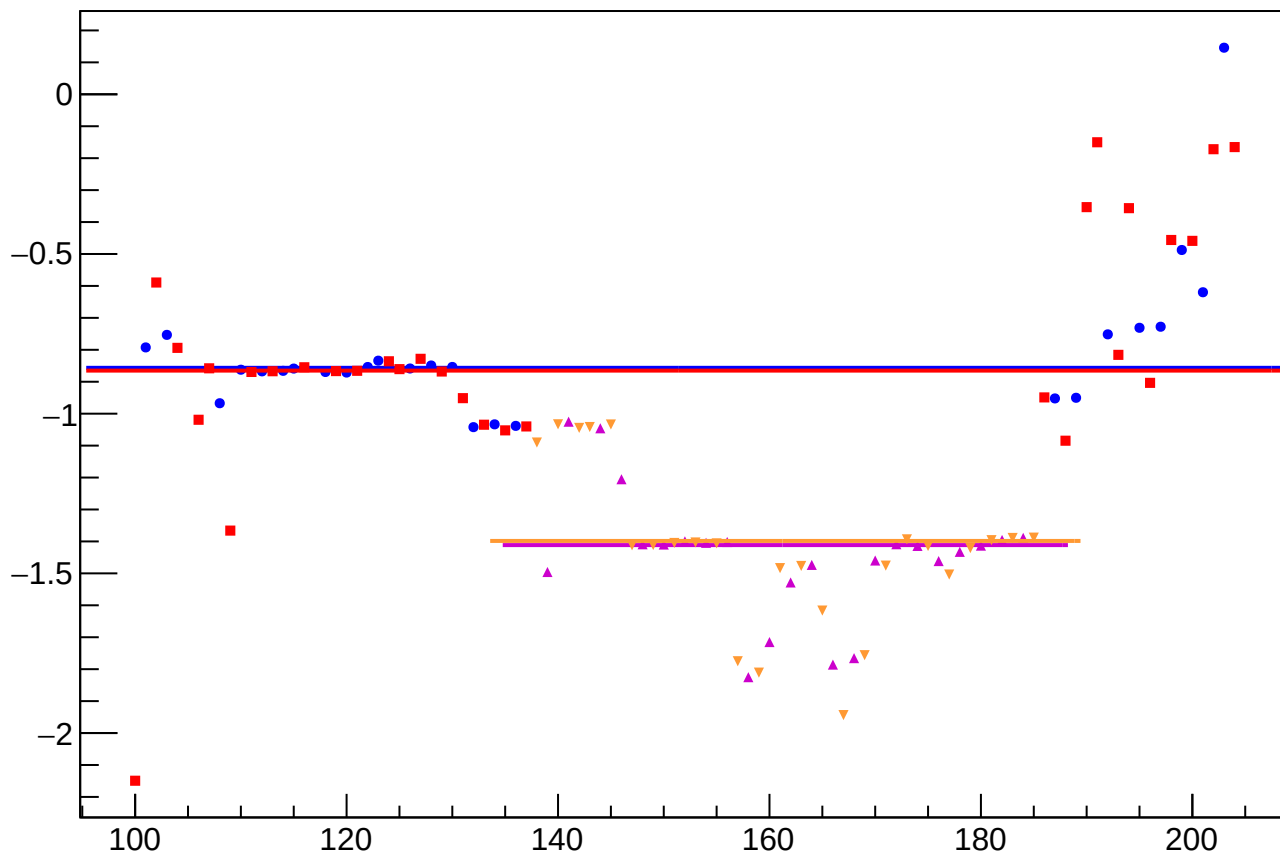
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4586896.5/54

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5088596.7/47

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:5770678.1/54

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 10860075.2/102

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.856 ± 0.000 $\chi^2/\text{NDF}: 168337313.6/24$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.865 ± 0.000 $\chi^2/\text{NDF}: 368233790.7/29$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

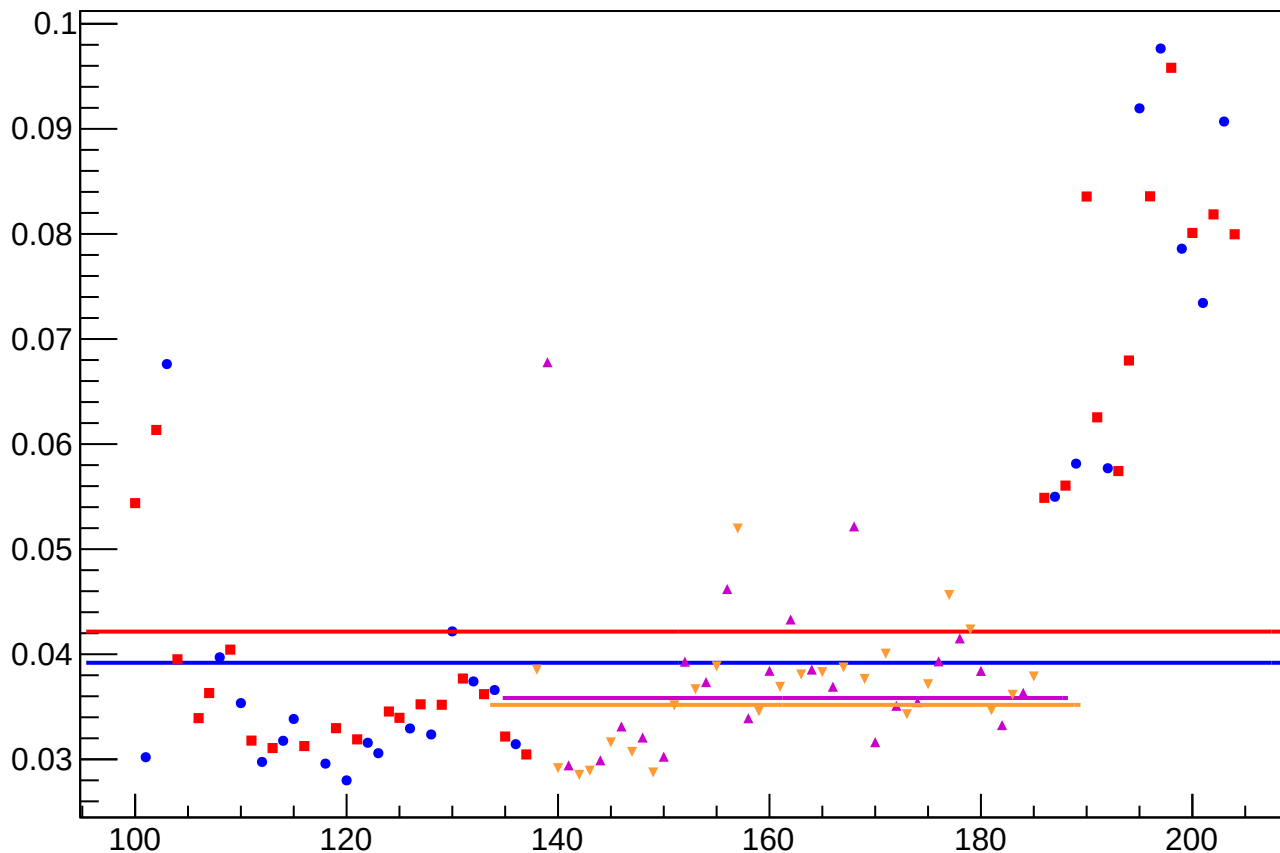
Right: -0.861 ± 0.000 $\chi^2/\text{NDF}: 536810651.8/54$

In: -1.222 ± 0.000 $\chi^2/\text{NDF}: 1941157347.2/47$

Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 2323150324.8/54$

All: -1.222 ± 0.000 $\chi^2/\text{NDF}: 4264308479.8/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.039 $\pm$ 0.000 χ^2 /NDF: 3273015.5/24

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 3207143.9/29

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

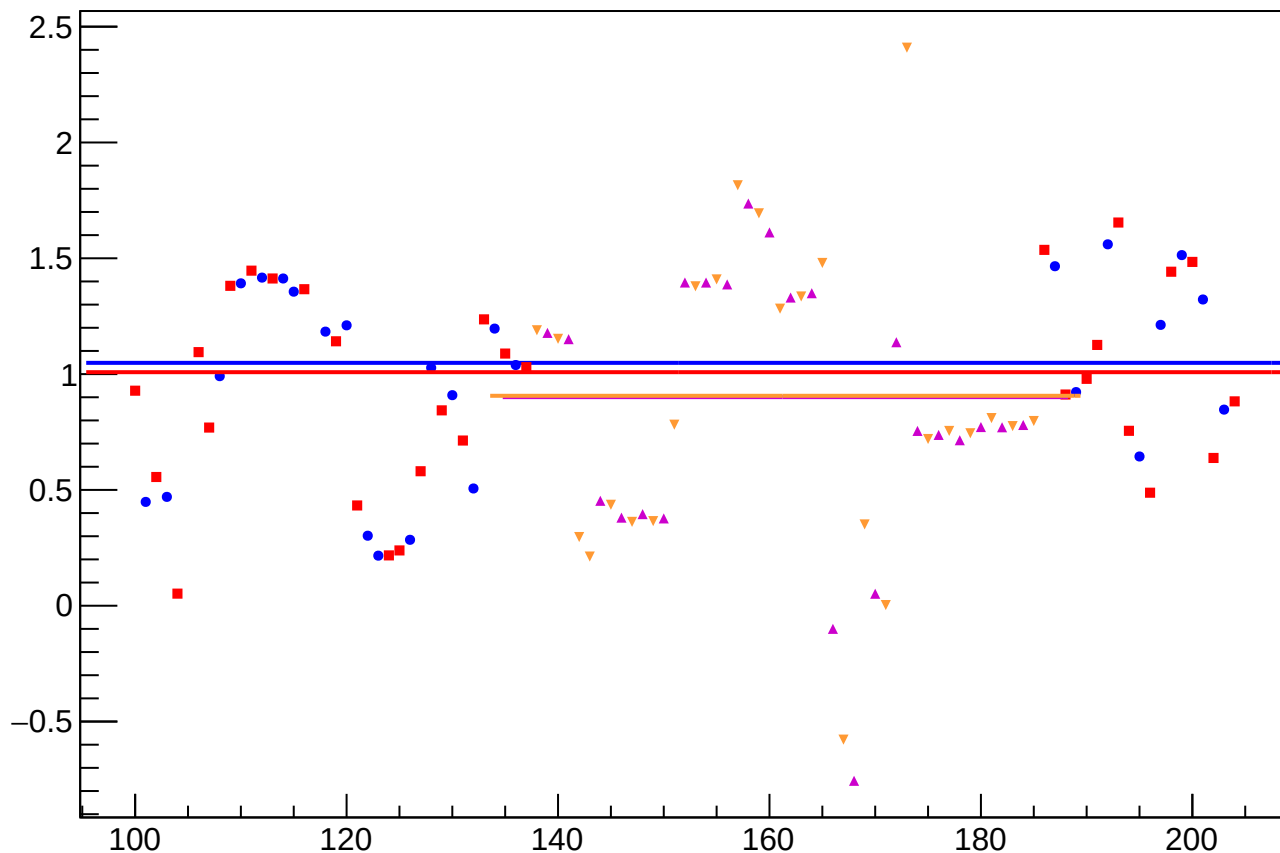
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 6535681.0/54

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4255888.9/47

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:4222521.3/54

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 8483163.3/102

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.049 $\pm$ 0.000 χ^2 /NDF: 18945672541.0/24

Left Out: 0.906 $\pm$ 0.000 χ^2 /NDF: 84108410196.2/24

Right Out: 1.008 $\pm$ 0.000 χ^2 /NDF: 25333357631.8/29

Left In: 0.901 $\pm$ 0.000 χ^2 /NDF: 66932223067.8/22

Left: 0.904 $\pm$ 0.000 χ^2 /NDF: 151044220035.9/47

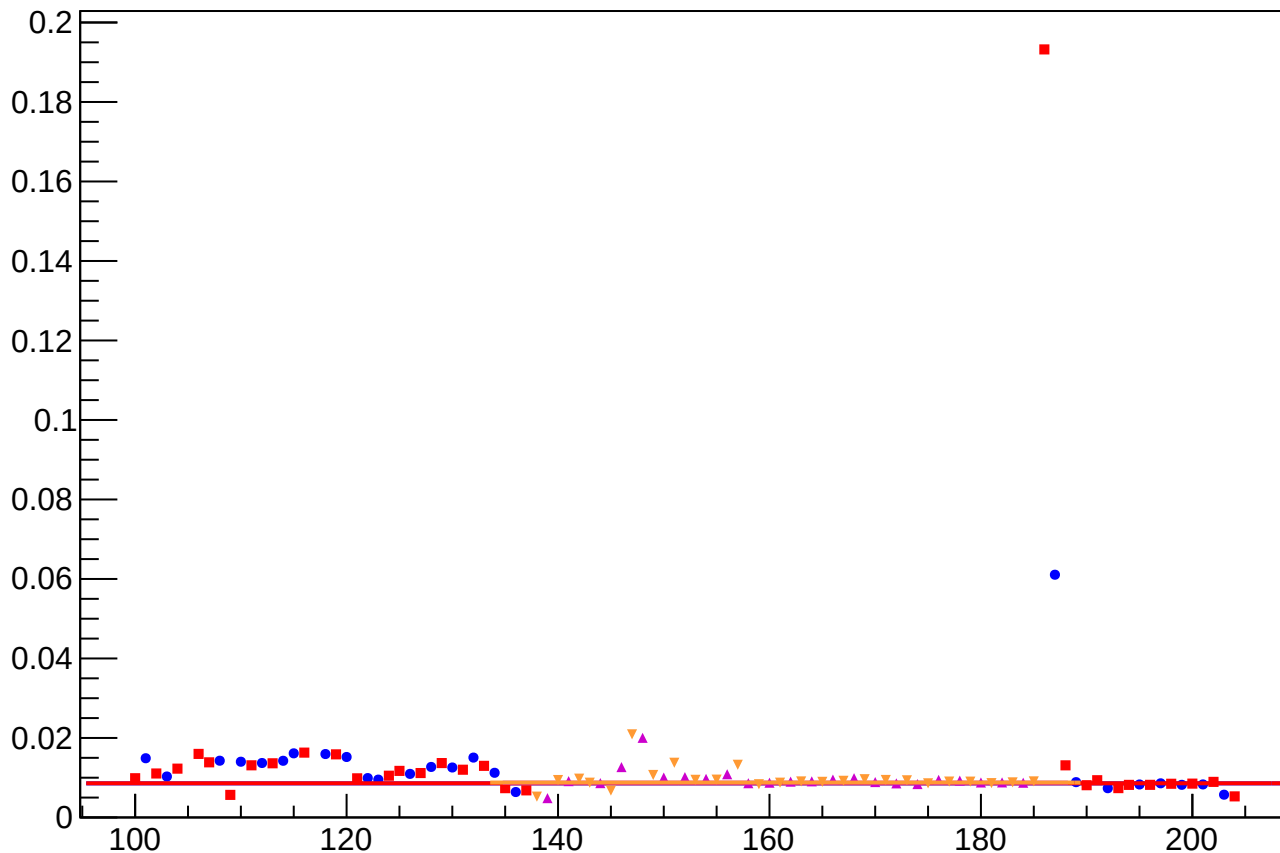
Right: 1.027 $\pm$ 0.000 χ^2 /NDF: 44398483578.5/54

In: 0.960 $\pm$ 0.000 χ^2 /NDF: 87698577878.3/47

Out: 0.949 $\pm$ 0.000 χ^2 /NDF: 110391014309.9/54

All: 0.954 $\pm$ 0.000 χ^2 /NDF: 198110811622.4

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2132231.5/24

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2795965.3/29

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

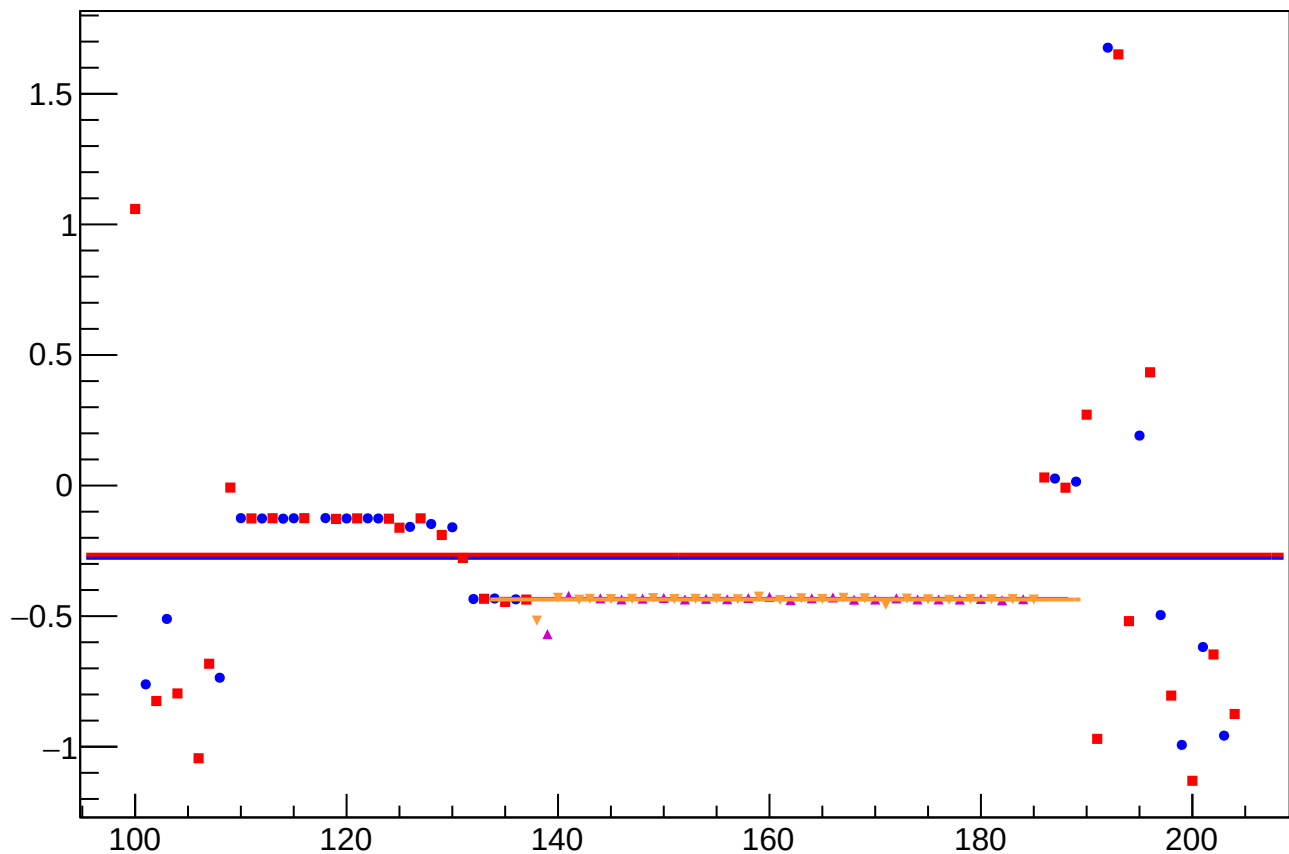
Right: 0.009+/-0.000 χ^2/NDF : 4928309.9/54

In: 0.009+/-0.000 χ^2/NDF :3806784.5/47

Out: 0.009+/-0.000 χ^2/NDF :4500846.2/54

All: 0.009+/-0.000 χ^2/NDF : 8308120.1/102

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.276+/-0.000 χ^2/NDF : 2131298257.4/24

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.265+/-0.000 χ^2/NDF : 2155928926.4/29

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

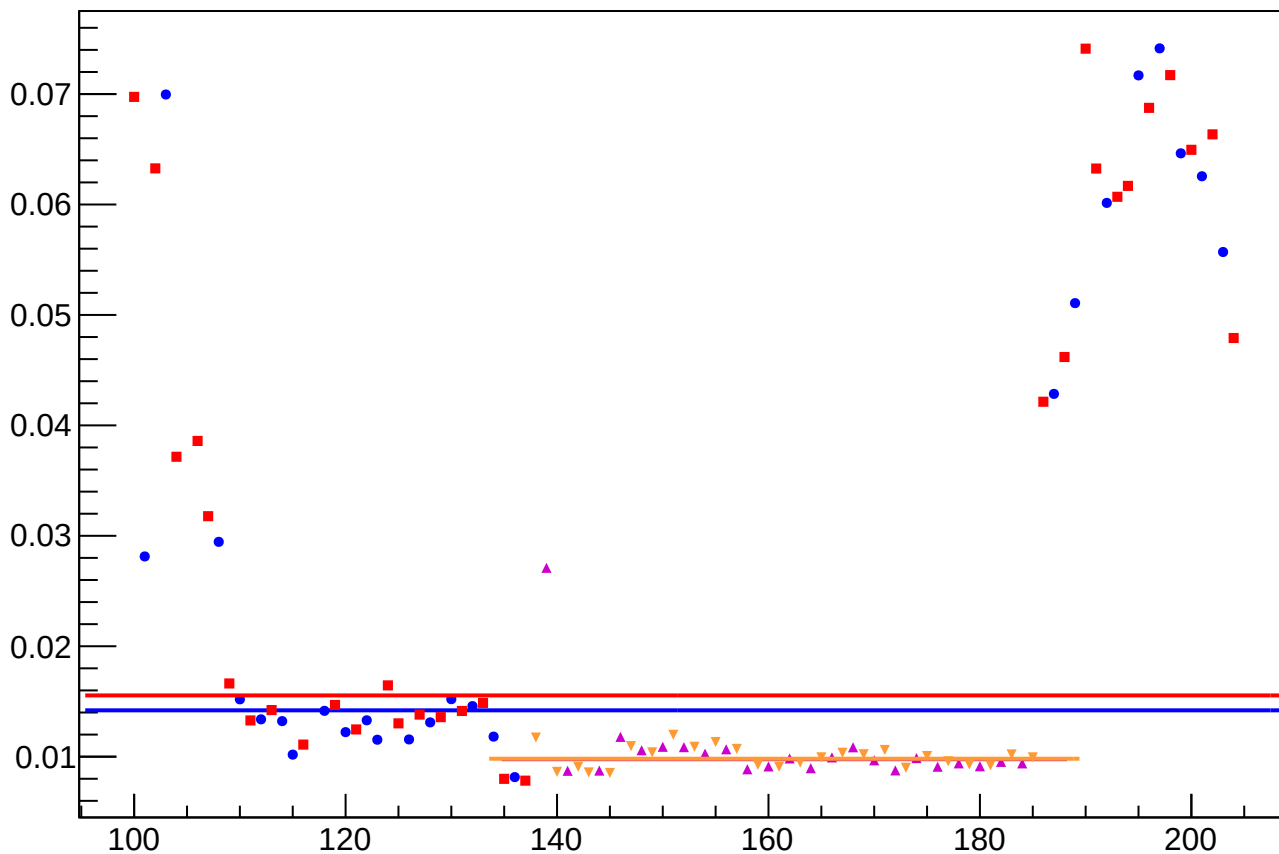
Right: -0.271+/-0.000 χ^2/NDF : 4289469932.9/54

In: -0.406+/-0.000 χ^2/NDF : 2823865727.7/47

Out: -0.408+/-0.000 χ^2/NDF : 2966887662.4/54

All: -0.407+/-0.000 χ^2/NDF : 5791125071.7/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 8235026.4/24

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.016+/-0.000 χ^2/NDF : 9828554.4/29

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

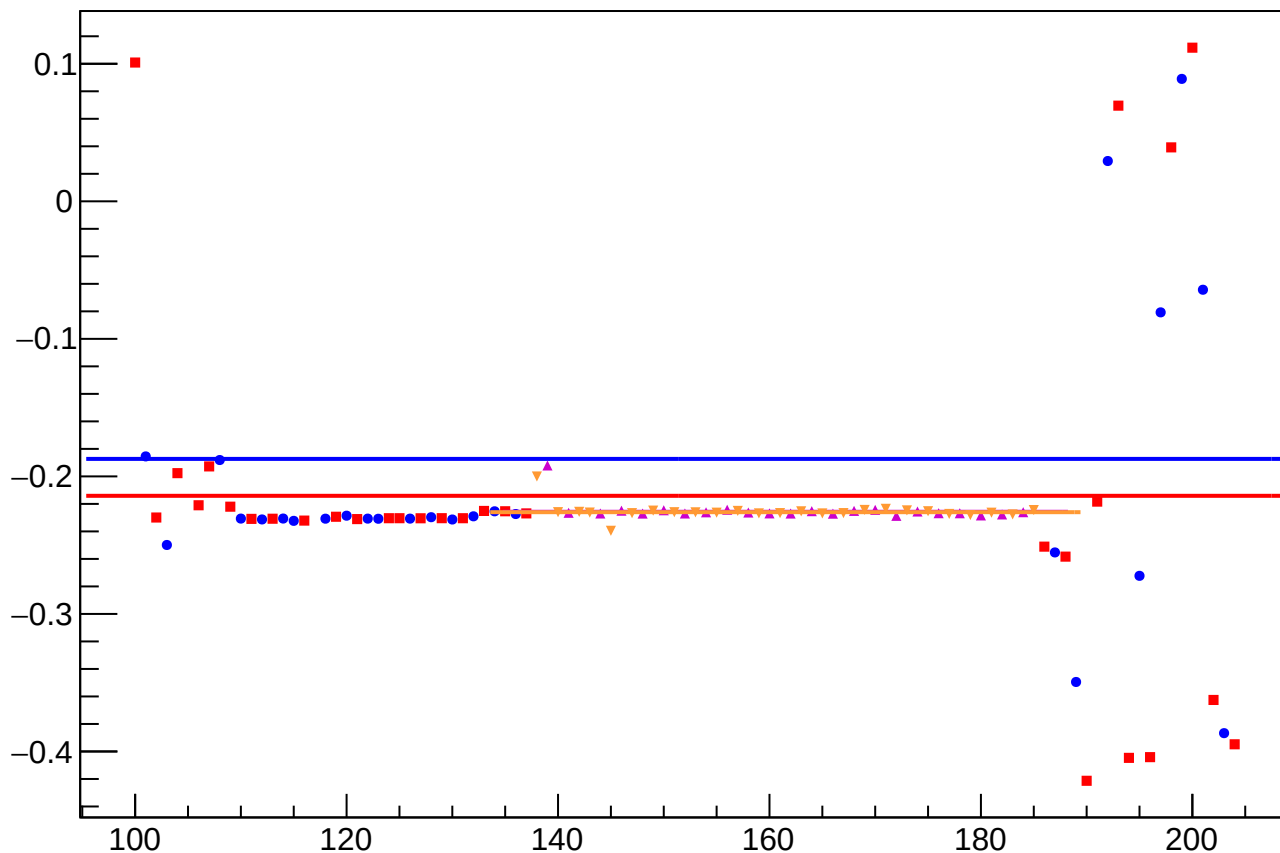
Right: 0.015+/-0.000 χ^2/NDF : 18122491.2/54

In: 0.011+/-0.000 χ^2/NDF : 10081856.6/47

Out: 0.011+/-0.000 χ^2/NDF : 11846073.4/54

All: 0.011+/-0.000 χ^2/NDF : 21935419.7/102

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.187+/-0.000 χ^2/NDF : 5299441278.7/24

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.214+/-0.000 χ^2/NDF : 8458087722.1/29

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

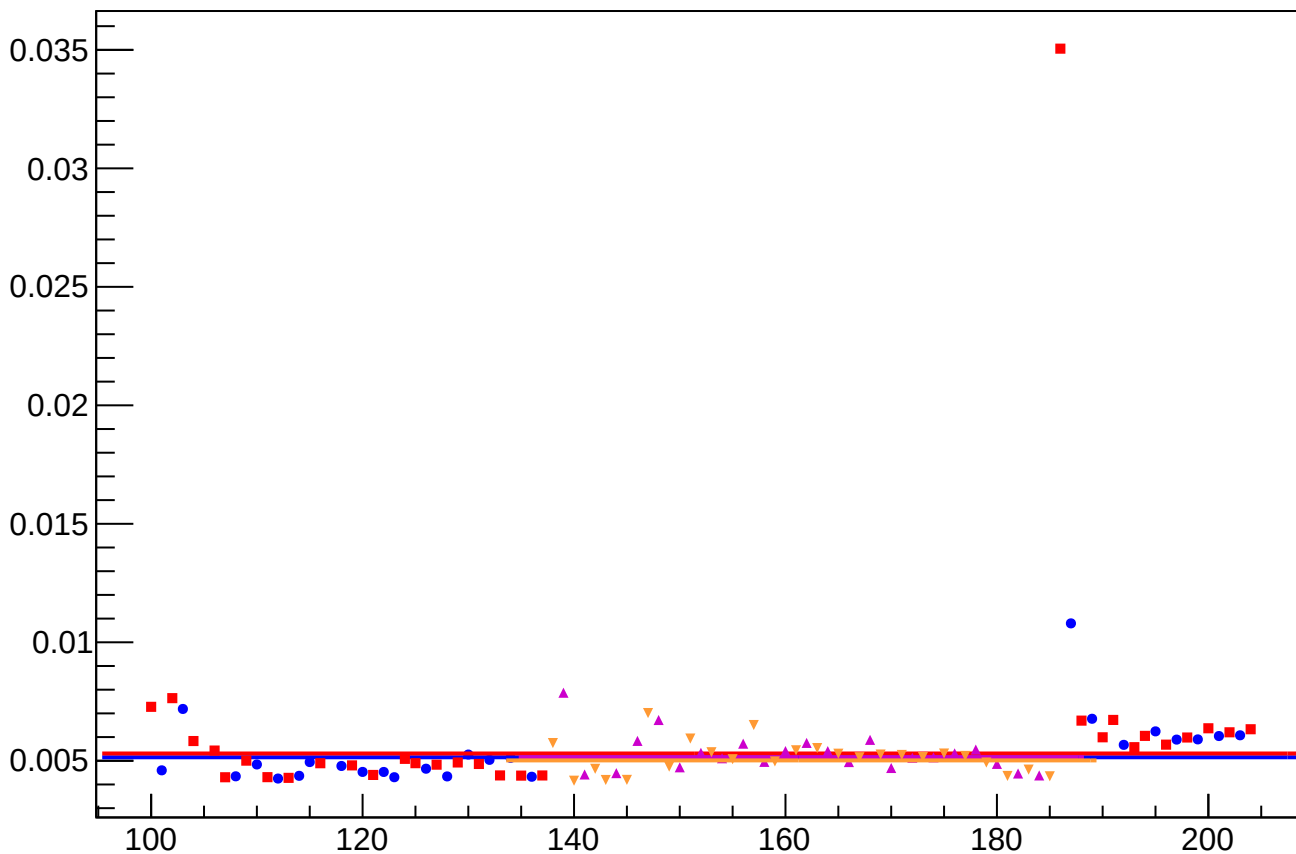
Right: -0.201+/-0.000 χ^2/NDF : 13912792759.5/54

In: -0.210+/-0.000 χ^2/NDF : 5679819138.3/47

Out: -0.221+/-0.000 χ^2/NDF : 8517785081.0/54

All: -0.216+/-0.000 χ^2/NDF : 14262955408.2/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 601953.9/24

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1168203.0/29

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

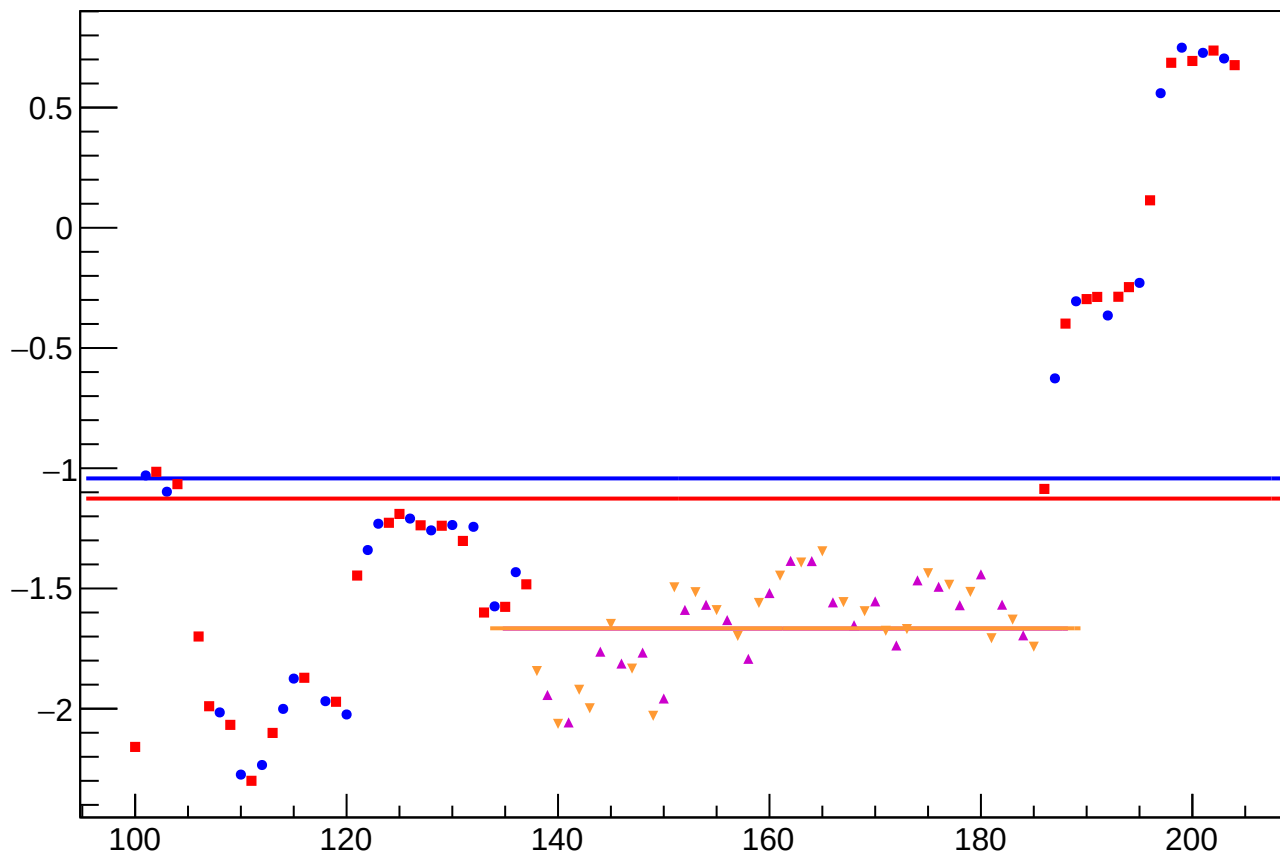
Right: 0.005+/-0.000 χ^2/NDF : 1781155.0/54

In: 0.005+/-0.000 χ^2/NDF : 1105996.1/47

Out: 0.005+/-0.000 χ^2/NDF : 1746966.1/54

All: 0.005+/-0.000 χ^2/NDF : 2853288.3/102

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.042+/-0.000

χ^2/NDF : 143487994168.4/24

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -1.088+/-0.000

χ^2/NDF : 321956026140.1/54

Right Out: -1.126+/-0.000

χ^2/NDF : 177744312026.9/29

In: -1.472+/-0.000

χ^2/NDF : 208412229261.9/47

Out: -1.482+/-0.000

χ^2/NDF : 239960563282.5/54

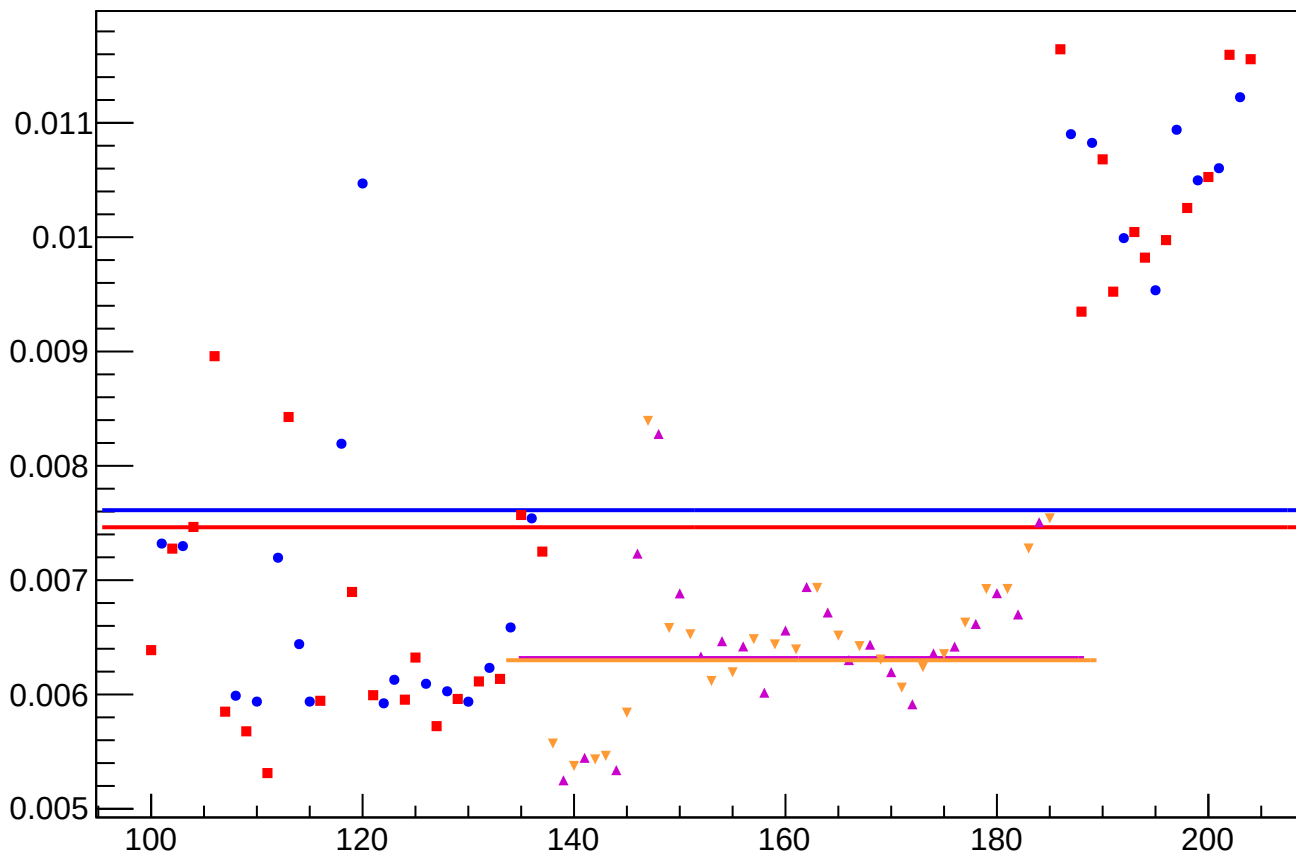
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.477+/-0.000

χ^2/NDF : 448400884514.0

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1284493.9/24

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1722067.4/29

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

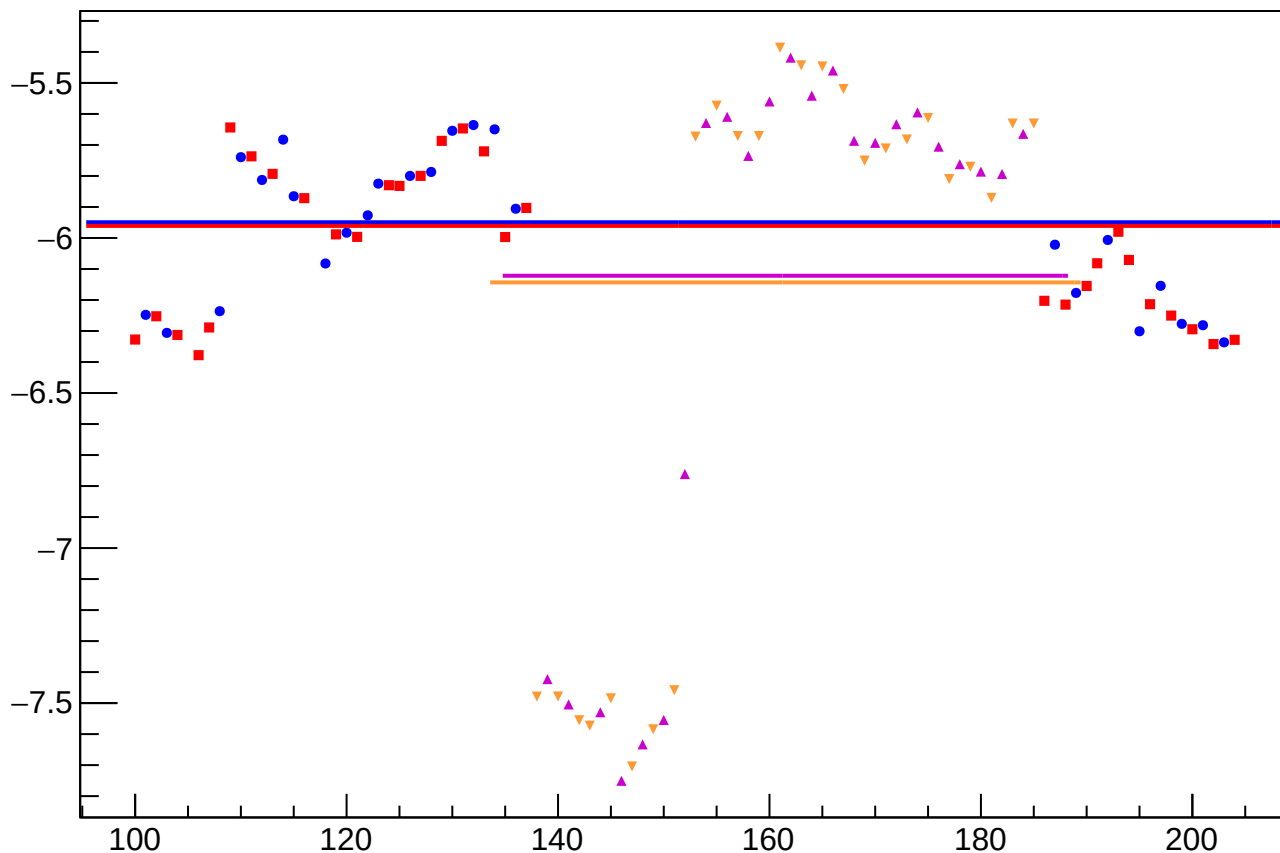
Right: 0.008+/-0.000 χ^2/NDF : 3011151.2/54

In: 0.007+/-0.000 χ^2/NDF :2050240.9/47

Out: 0.007+/-0.000 χ^2/NDF :2442635.6/54

All: 0.007+/-0.000 χ^2/NDF : 4493292.8/102

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.949+/-0.000

χ^2/NDF : 13884911764.2/24

Left Out: -6.143+/-0.000

χ^2/NDF : 185721259239.3/24

Right Out: -5.961+/-0.000

χ^2/NDF : 15797814150.6/29

Left In: -6.122+/-0.000

χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000

χ^2/NDF : 345689393988.1/47

Right: -5.956+/-0.000

χ^2/NDF : 29699604826.5/54

In: -6.039+/-0.000

χ^2/NDF : 177367254728.1/47

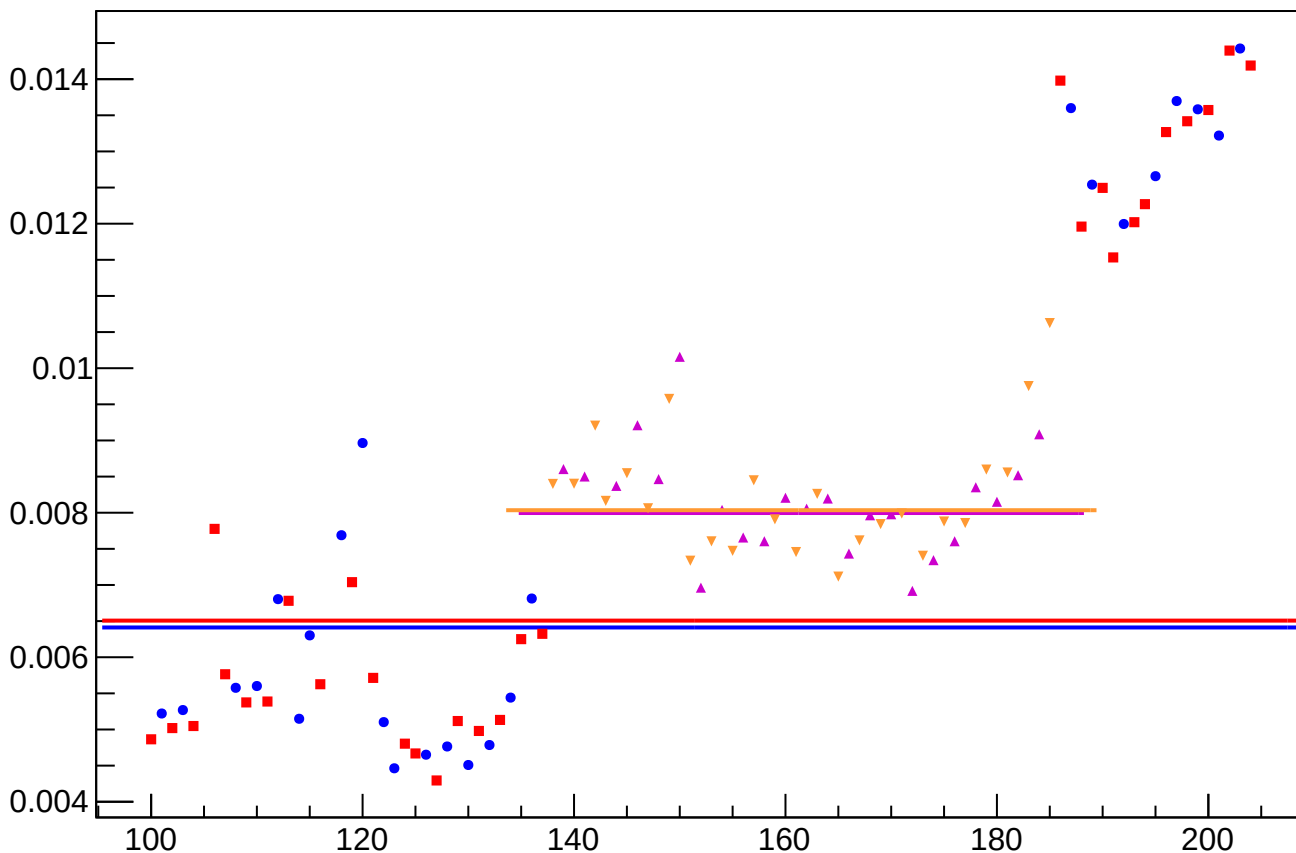
Out: -6.051+/-0.000

χ^2/NDF : 205849724269.0/54

All: -6.045+/-0.000

χ^2/NDF : 383256382453.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 3566692.4/24

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:205976.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 4254120.7/29

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:220203.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 426558.9/47

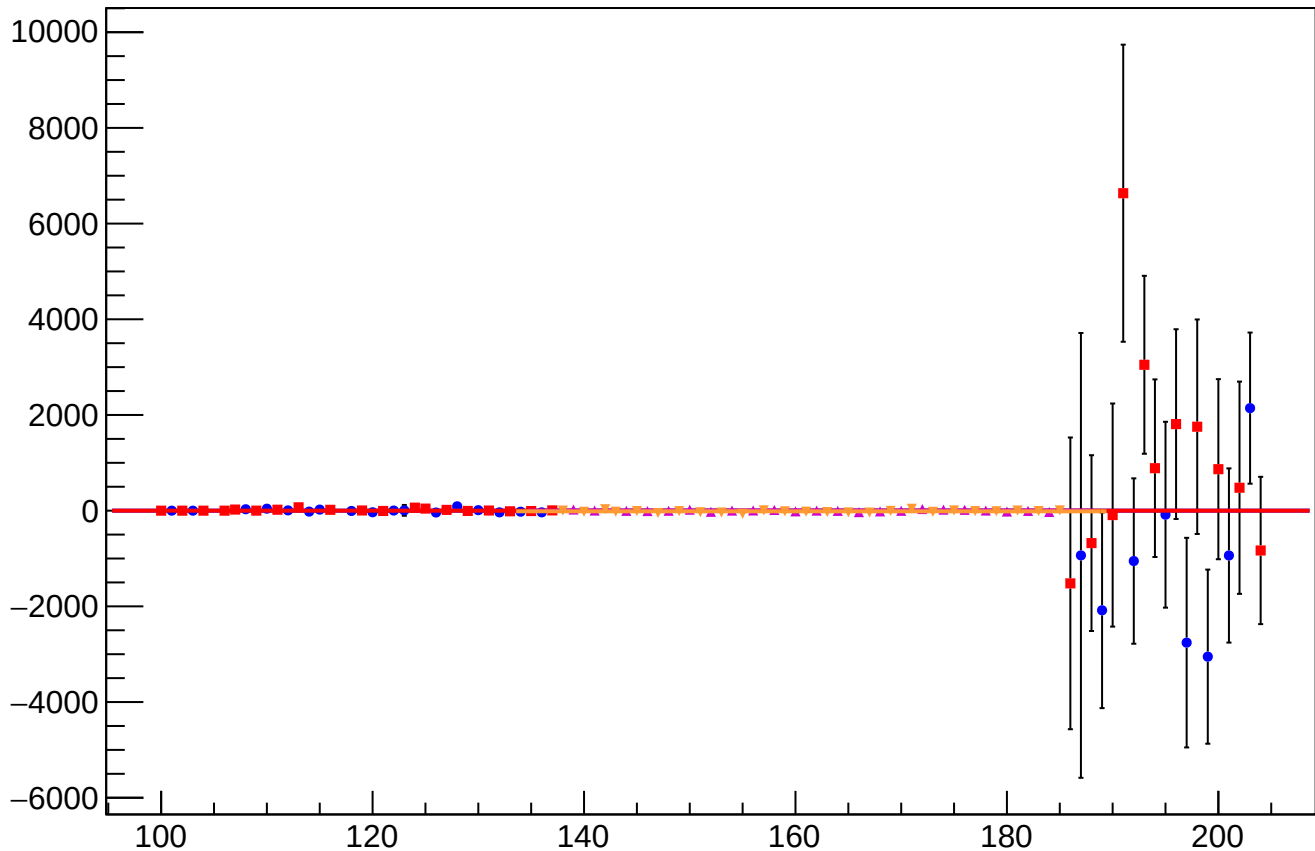
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 7823040.1/54

In: 0.007 $\pm$ 0.000 χ^2 /NDF:4389737.1/47

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5068481.3/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 9458681.4/102

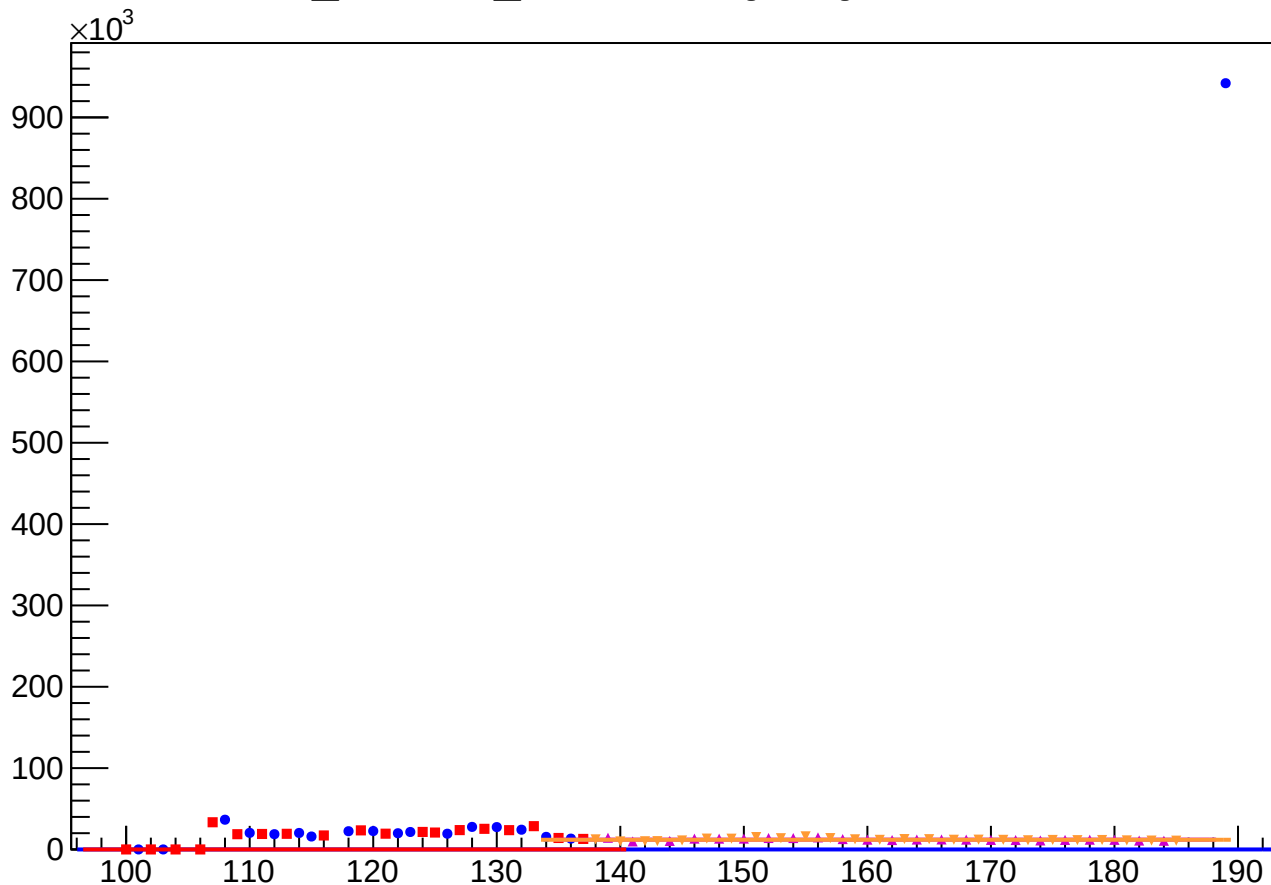
diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 24.2/24$
Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$
Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 24.8/29$
Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 49.5/54$
In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 52.9/47$
Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 106.5/54$
All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 159.9/102$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

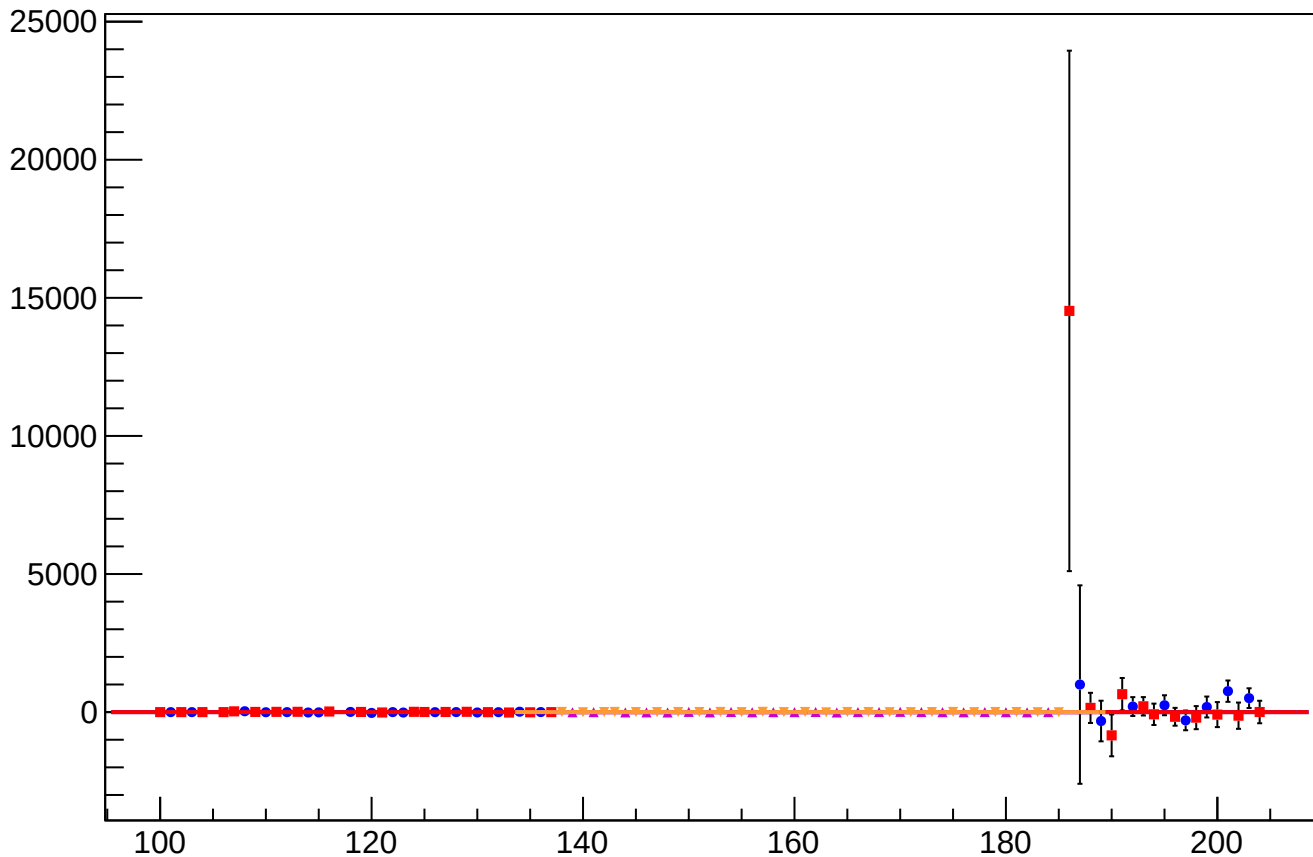
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 22.5/24

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF: 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.6/29

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF: 35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

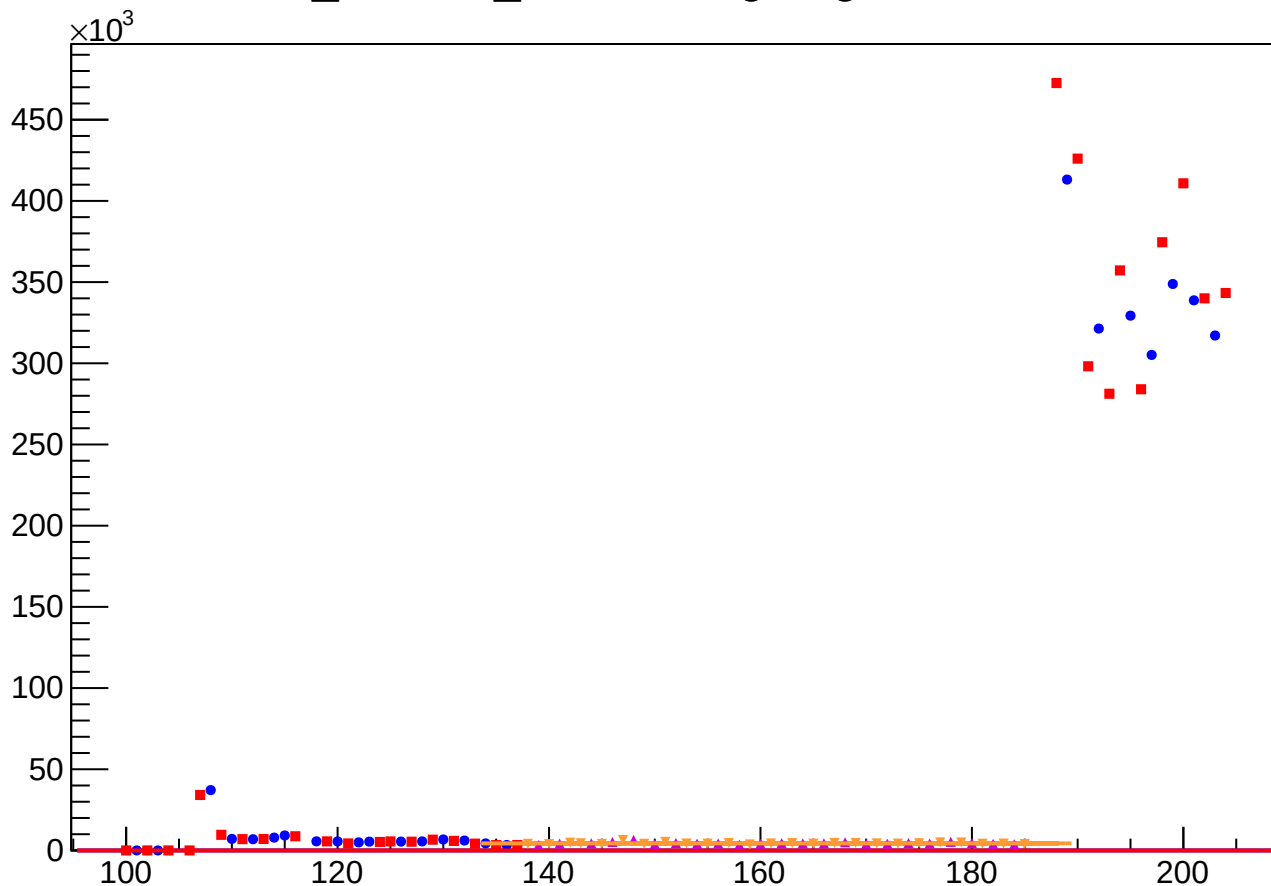
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 48.5/54

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 58.9/47

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 45.2/54

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 105.4/102

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 21246590.4/23

Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24

Right Out: 9.855 ± 0.006 χ^2/NDF : 24095410.5/28

Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47

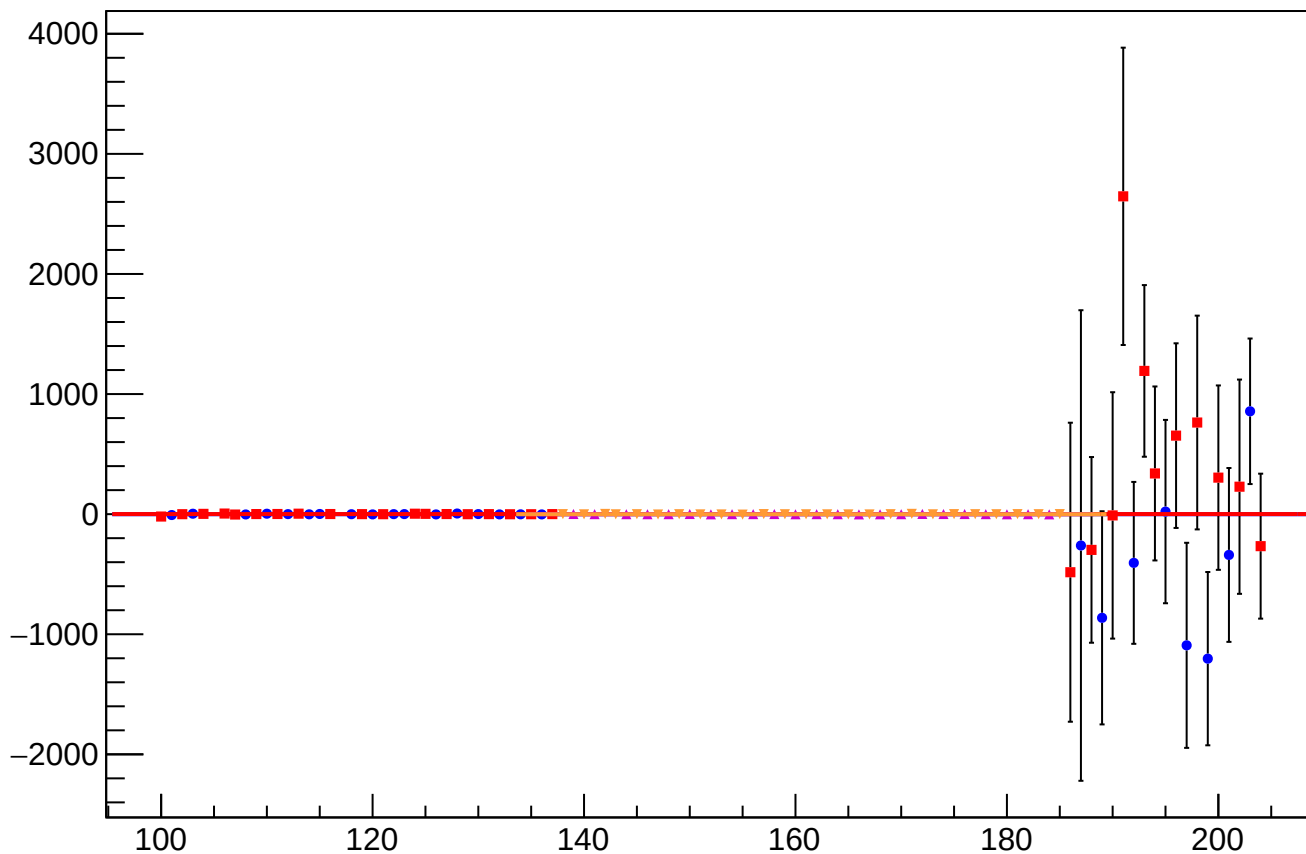
Right: 9.895 ± 0.004 χ^2/NDF : 45342088.7/52

In: 10.274 ± 0.007 χ^2/NDF : 55842602.1/46

Out: 10.167 ± 0.006 χ^2/NDF : 60625120.4/53

All: 10.217 ± 0.004 χ^2/NDF : 116467866.4/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 ± 0.485 χ^2/NDF : 30.5/24

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 ± 0.502 χ^2/NDF : 21.5/29

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

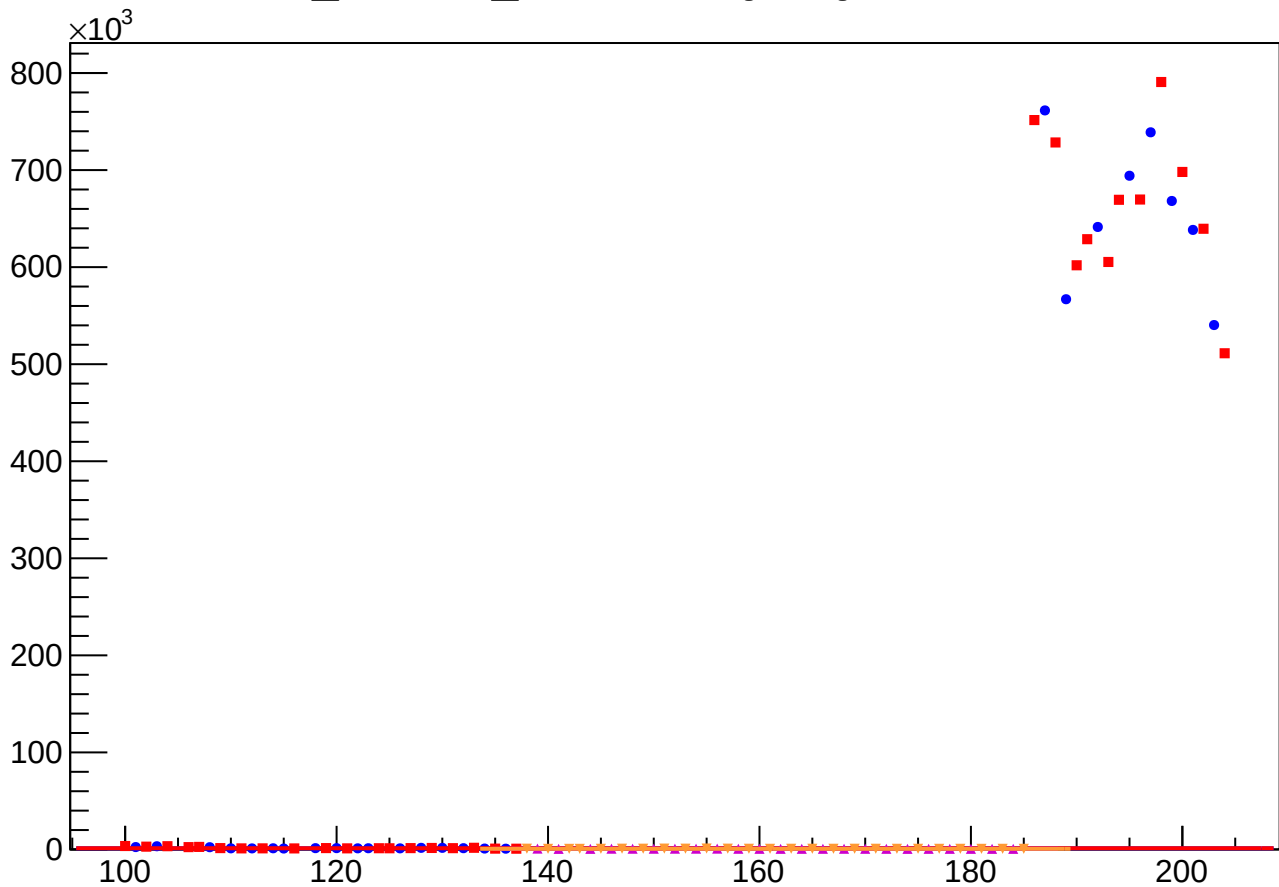
Right: 0.004 ± 0.349 χ^2/NDF : 56.4/54

In: -0.059 ± 0.161 χ^2/NDF : 61.7/47

Out: -0.626 ± 0.156 χ^2/NDF : 88.3/54

All: -0.350 ± 0.112 χ^2/NDF : 156.4/102

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1166.208 $\pm$ 0.343 χ^2/NDF : 12481161.7/24

Left Out: 700.797 $\pm$ 0.116 χ^2/NDF : 392521.4/24

Right Out: 1251.942 $\pm$ 0.355 χ^2/NDF : 15565964.7/29

Left In: 706.950 $\pm$ 0.120 χ^2/NDF : 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2/NDF : 732052.1/47

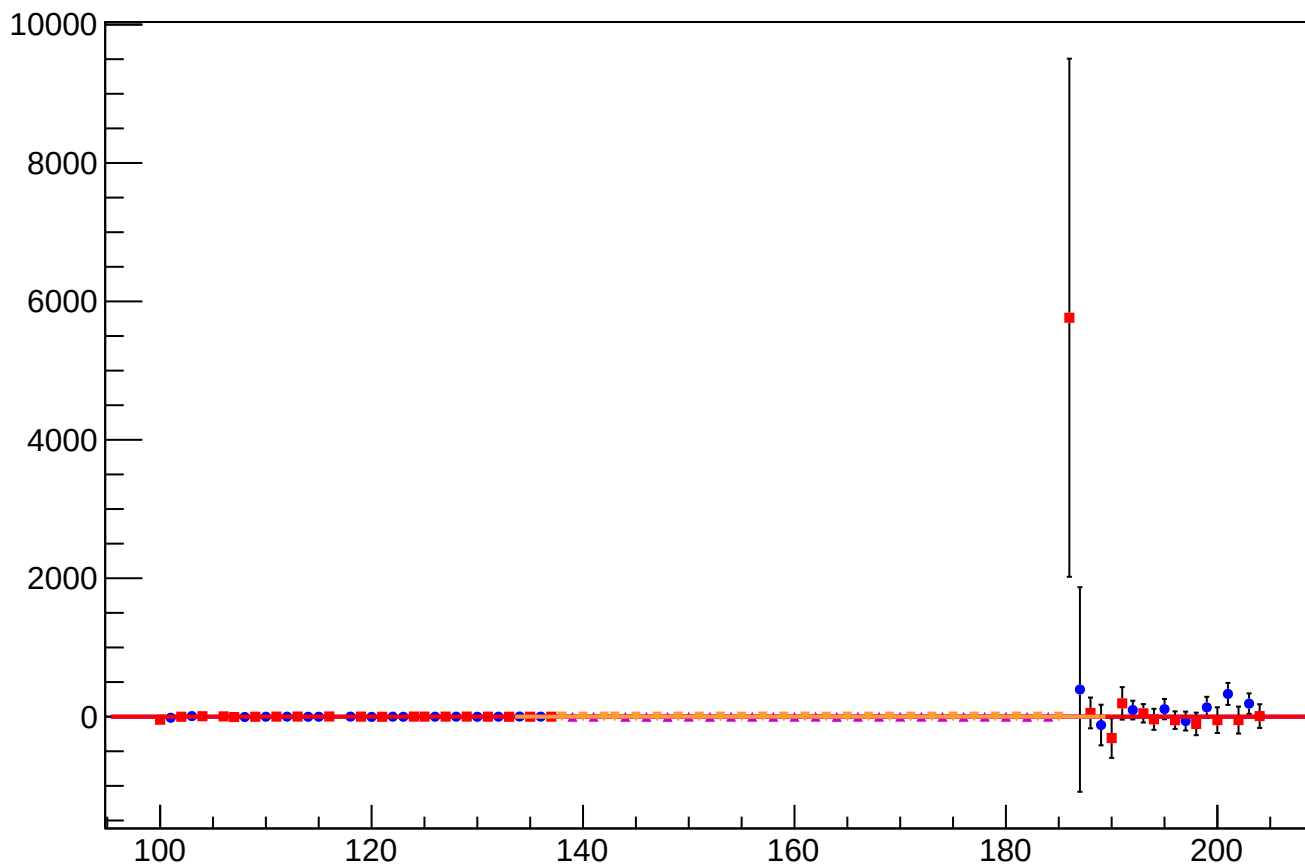
Right: 1207.592 $\pm$ 0.247 χ^2/NDF : 28077291.4/54

In: 757.263 $\pm$ 0.114 χ^2/NDF : 14416120.4/47

Out: 754.106 $\pm$ 0.110 χ^2/NDF : 18135259.6/54

All: 755.641 $\pm$ 0.079 χ^2/NDF : 32551777.4/100

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.271 χ^2/NDF : 29.1/24

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 25.9/29

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

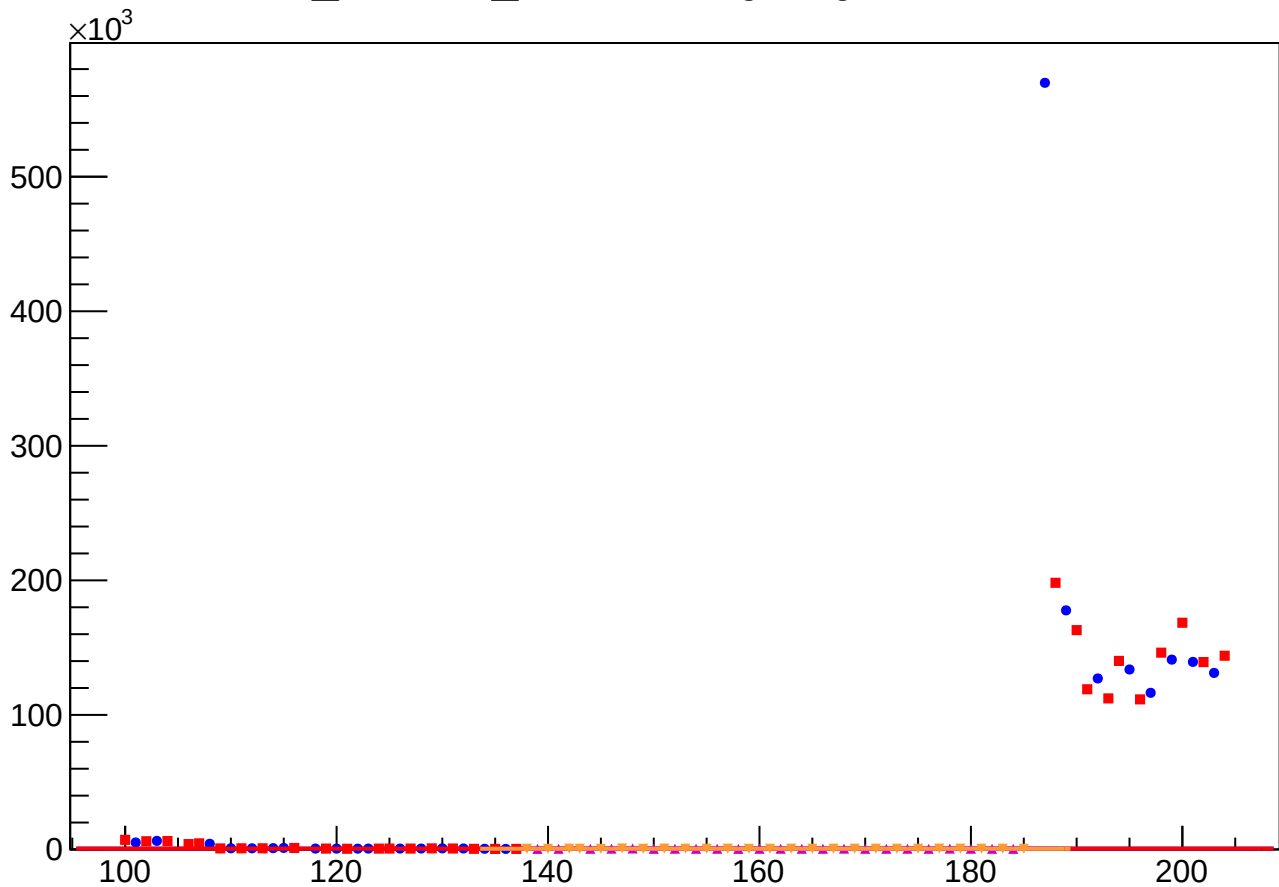
Right: -0.153 ± 0.189 χ^2/NDF : 55.2/54

In: -0.105 ± 0.114 χ^2/NDF : 64.1/47

Out: 0.151 ± 0.111 χ^2/NDF : 46.2/54

All: 0.026 ± 0.080 χ^2/NDF : 112.9/102

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 611.456 $\pm$ 0.191 χ^2/NDF : 13784204.6/24

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 602.961 $\pm$ 0.187 χ^2/NDF : 16552818.3/28

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

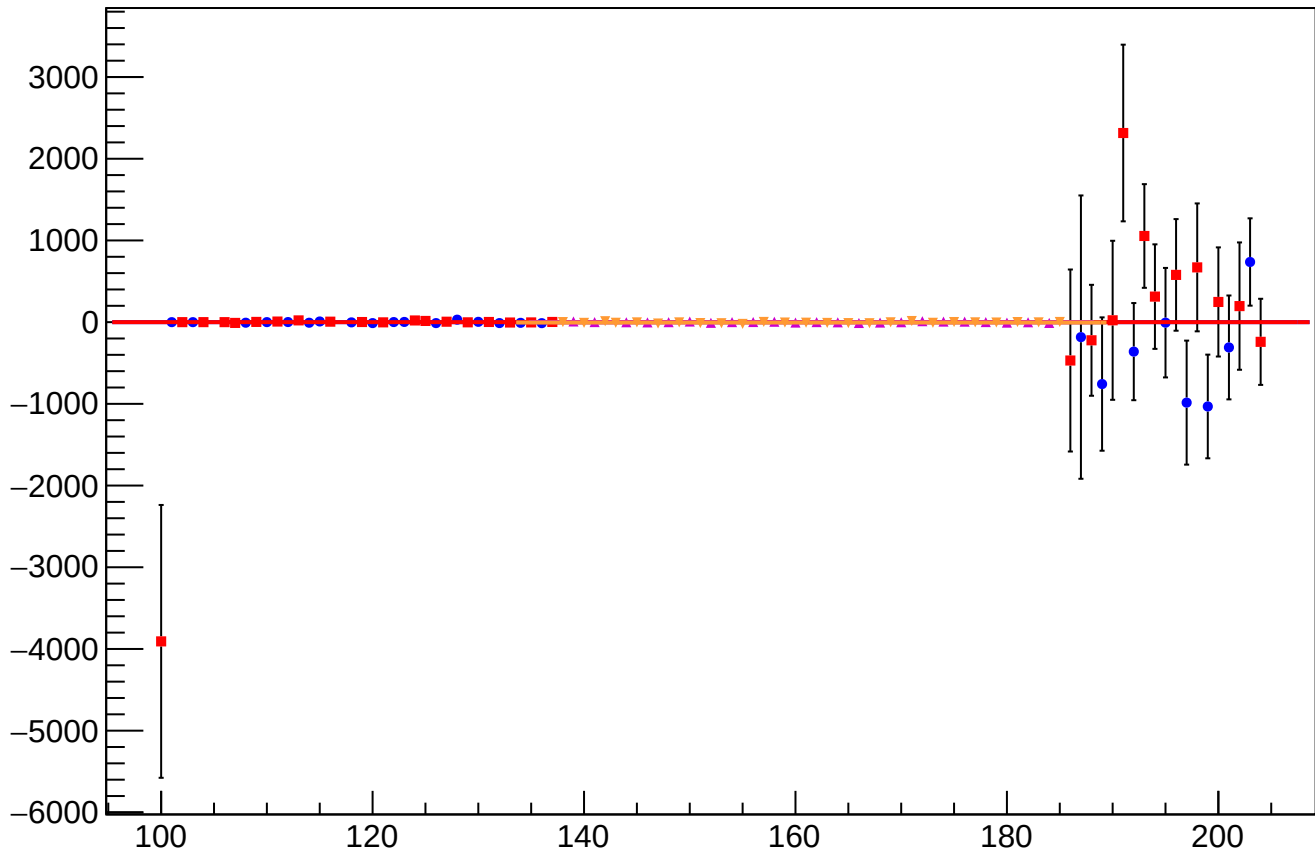
Right: 607.118 $\pm$ 0.134 χ^2/NDF : 30338029.9/53

In: 536.117 $\pm$ 0.081 χ^2/NDF : 14417383.5/47

Out: 536.608 $\pm$ 0.079 χ^2/NDF : 17036776.9/53

All: 536.368 $\pm$ 0.056 χ^2/NDF : 31454179.4/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 23.3/24

Left Out: -4.474 $\pm$ 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 26.5/29

Left In: 0.193 $\pm$ 0.990 χ^2/NDF : 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2/NDF : 99.0/47

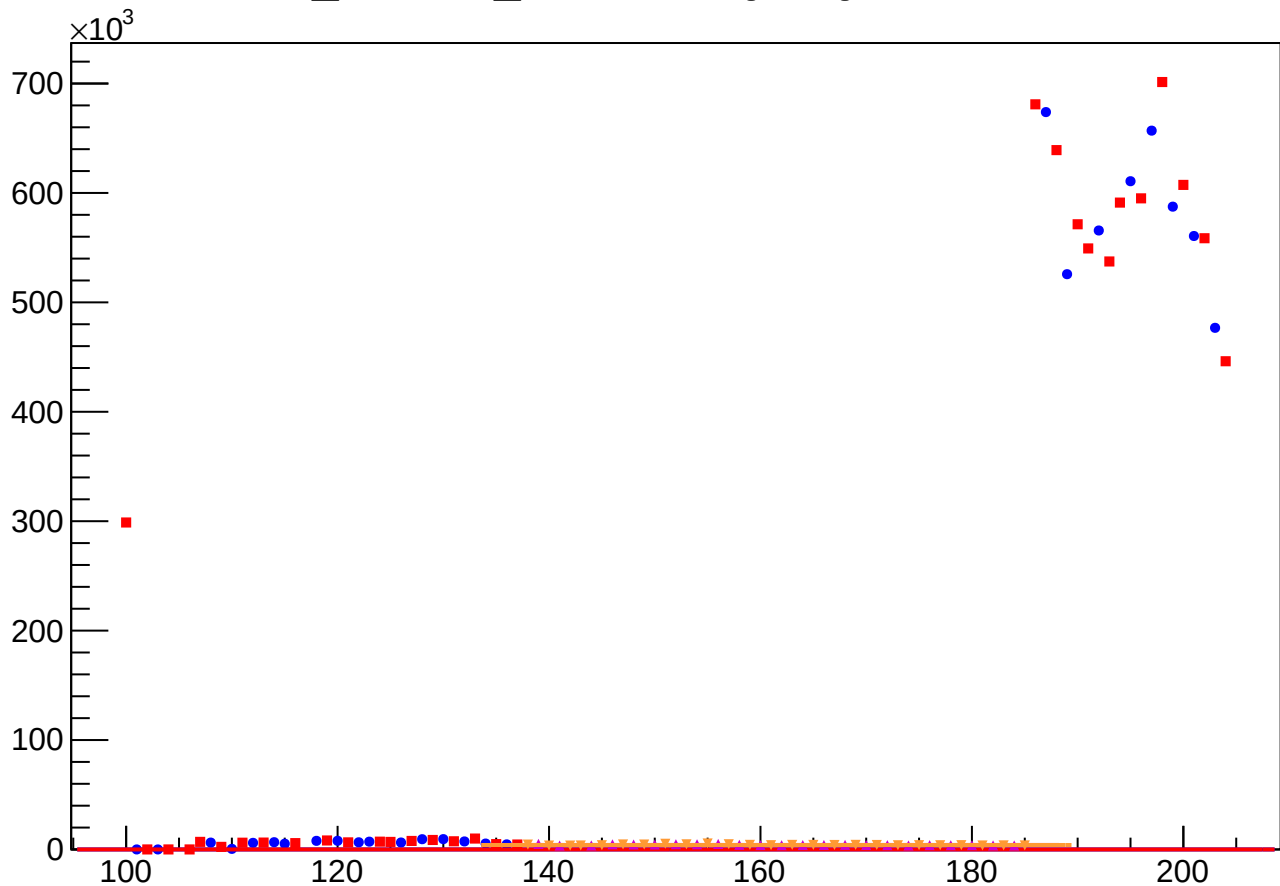
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 52.7/54

In: -0.022 $\pm$ 0.021 χ^2/NDF : 52.6/47

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 106.9/54

All: 0.003 $\pm$ 0.014 χ^2/NDF : 162.2/102

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340+/-0.015 χ^2 /NDF: 21279861.0/24

Left Out: 4074.257+/-0.676 χ^2 /NDF: 416916.0/24

Right Out: 17.272+/-0.014 χ^2 /NDF: 24844920.3/29

Left In: 4113.744+/-0.700 χ^2 /NDF: 354965.8/22

Left: 4093.298+/-0.486 χ^2 /NDF: 773528.6/47

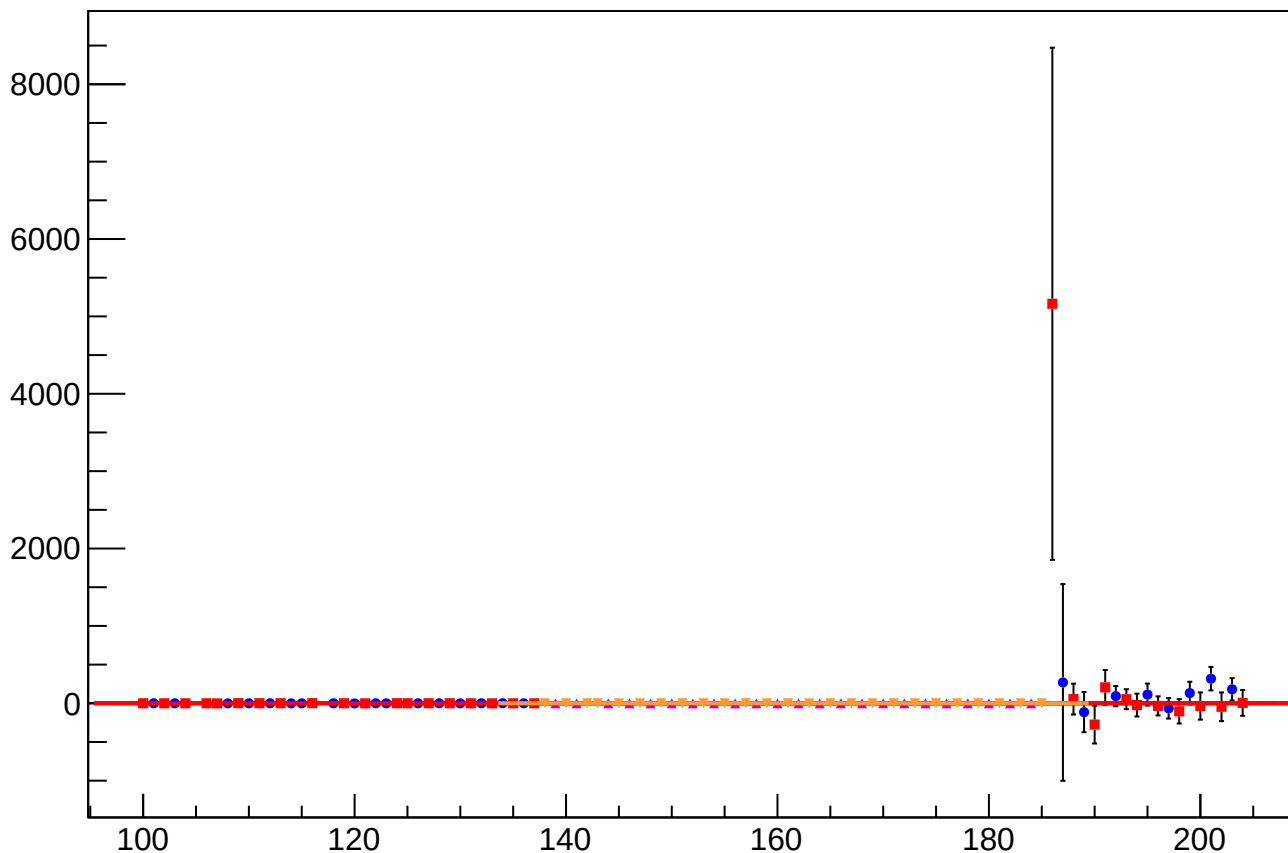
Right: 17.304+/-0.010 χ^2 /NDF: 46124792.5/54

In: 19.145+/-0.015 χ^2 /NDF: 55849039.9/47

Out: 19.009+/-0.014 χ^2 /NDF: 61297831.9/54

All: 19.074+/-0.010 χ^2 /NDF: 117146917.1/100

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 23.7/24

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.5/29

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

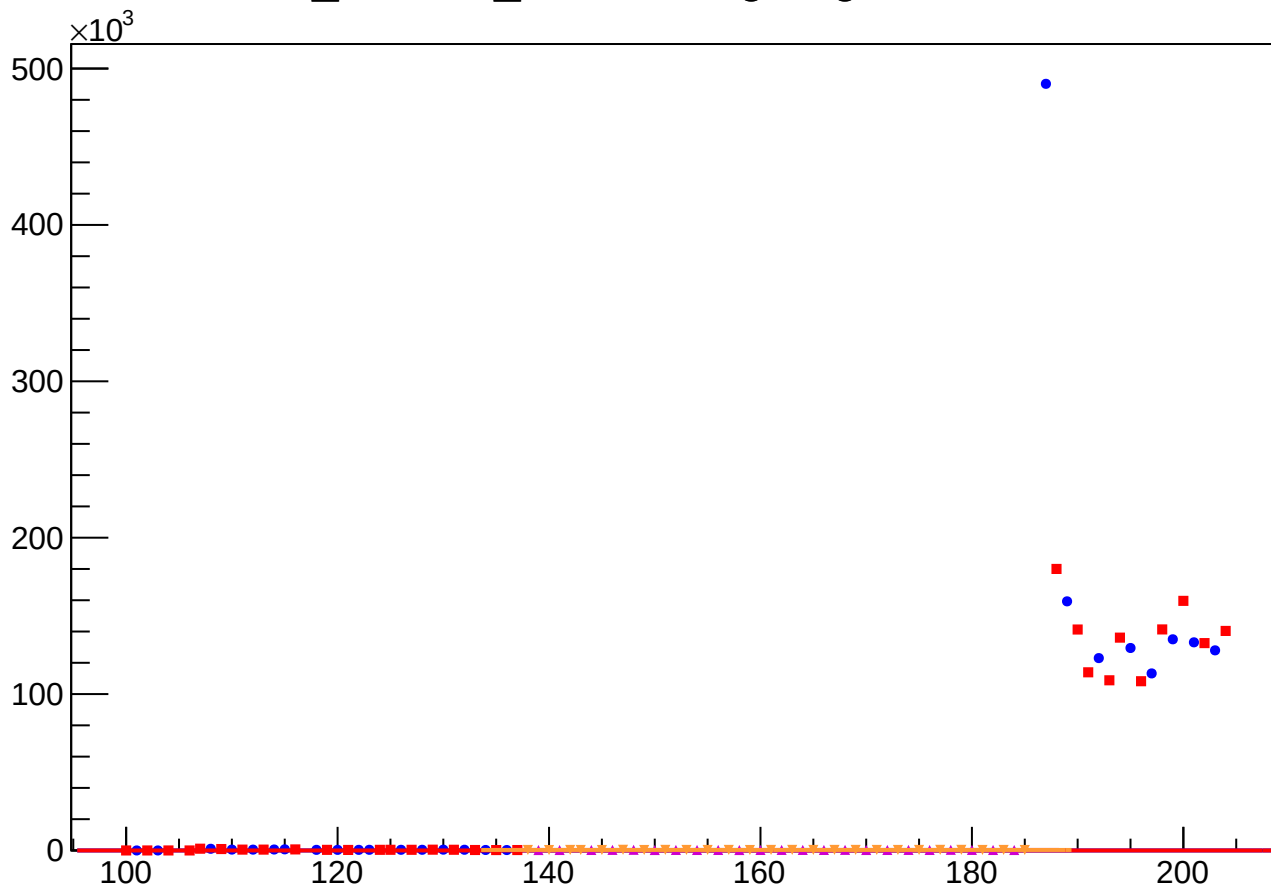
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 47.4/54

In: 0.000 $\pm$ 0.002 χ^2 /NDF:59.4/47

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.2/54

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 103.8/102

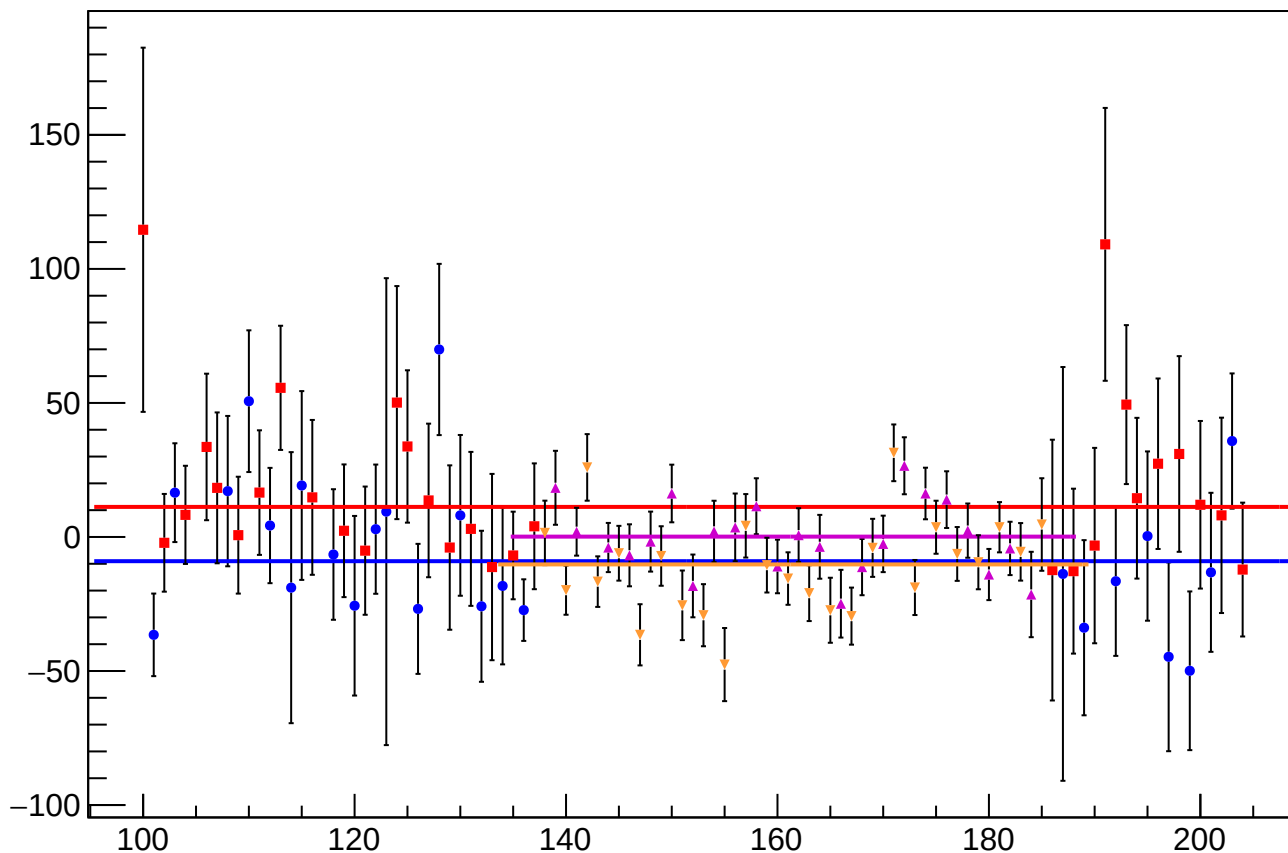
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 21629411.7/24
 Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 23863976.0/28
 Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47
 Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 45493614.9/53
 In: 1.914 $\pm$ 0.001 χ^2 /NDF:56032842.3/47
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:60171789.1/53
 All: 1.926 $\pm$ 0.001 χ^2 /NDF: 116204769.4/101

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.032 ± 5.031 χ^2/NDF : 29.5/24

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 11.217 ± 4.948 χ^2/NDF : 19.5/29

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

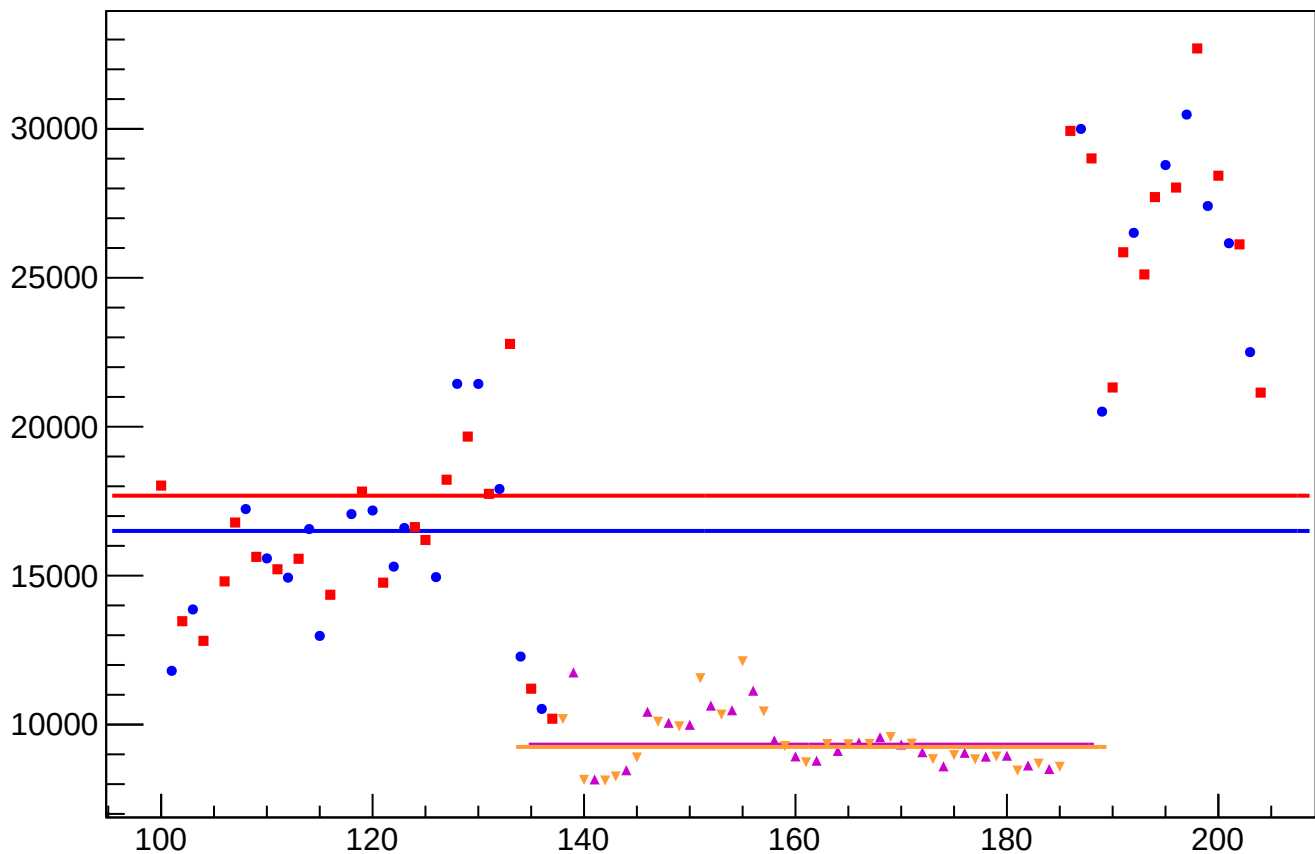
Right: 1.262 ± 3.528 χ^2/NDF : 57.2/54

In: -1.388 ± 2.048 χ^2/NDF : 62.1/47

Out: -6.783 ± 1.985 χ^2/NDF : 93.3/54

All: -4.170 ± 1.425 χ^2/NDF : 158.9/102

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16500.786 $\pm$ 3.558 χ^2 /NDF: 2530610.0/24

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17683.987 $\pm$ 3.499 χ^2 /NDF: 2713814.0/29

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

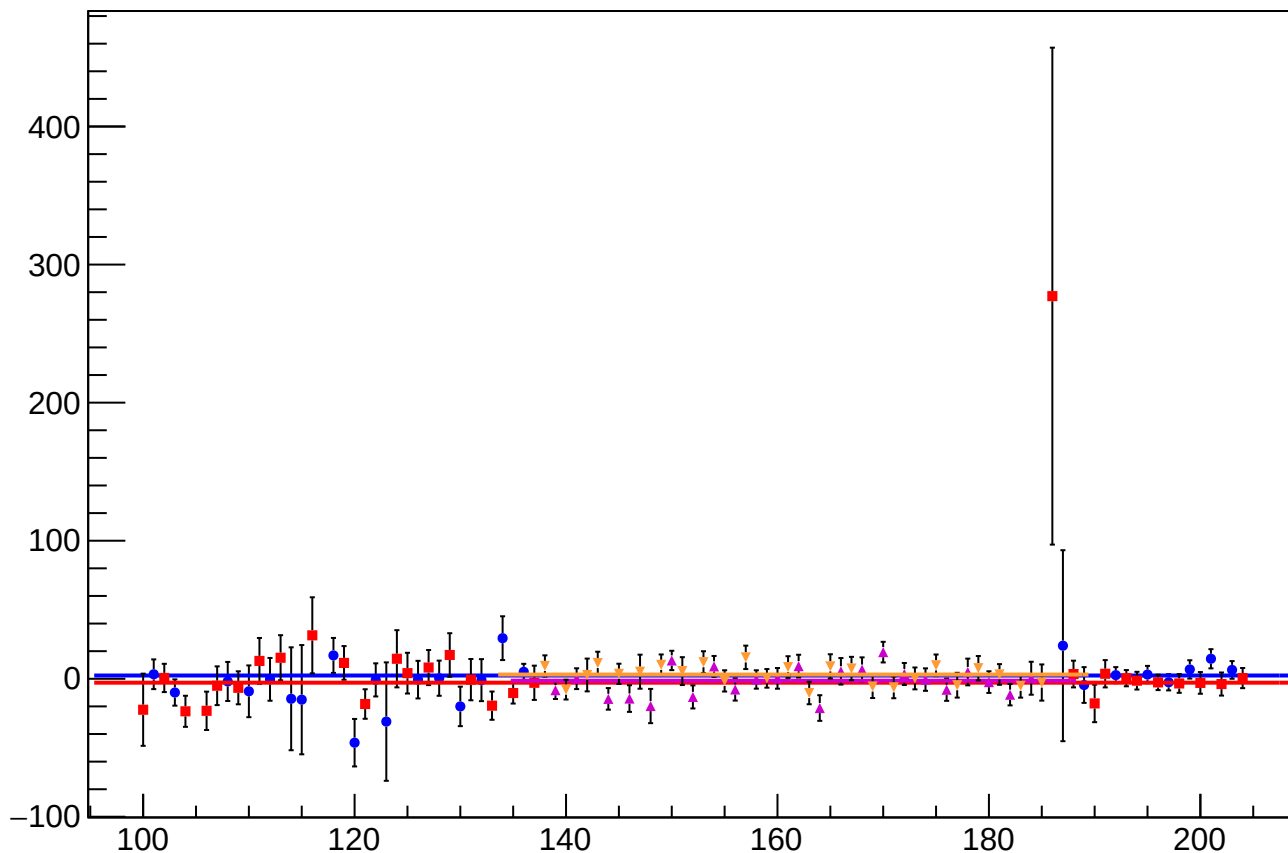
Right: 17102.293 $\pm$ 2.494 χ^2 /NDF: 5300654.8/54

In: 10514.114 $\pm$ 1.448 χ^2 /NDF:6205627.5/47

Out: 10606.552 $\pm$ 1.403 χ^2 /NDF:7922933.6/54

All: 10561.784 $\pm$ 1.008 χ^2 /NDF: 14130662.2

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.372 ± 1.952 $\chi^2/\text{NDF}: 23.2/24$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -2.819 ± 1.832 $\chi^2/\text{NDF}: 25.5/29$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

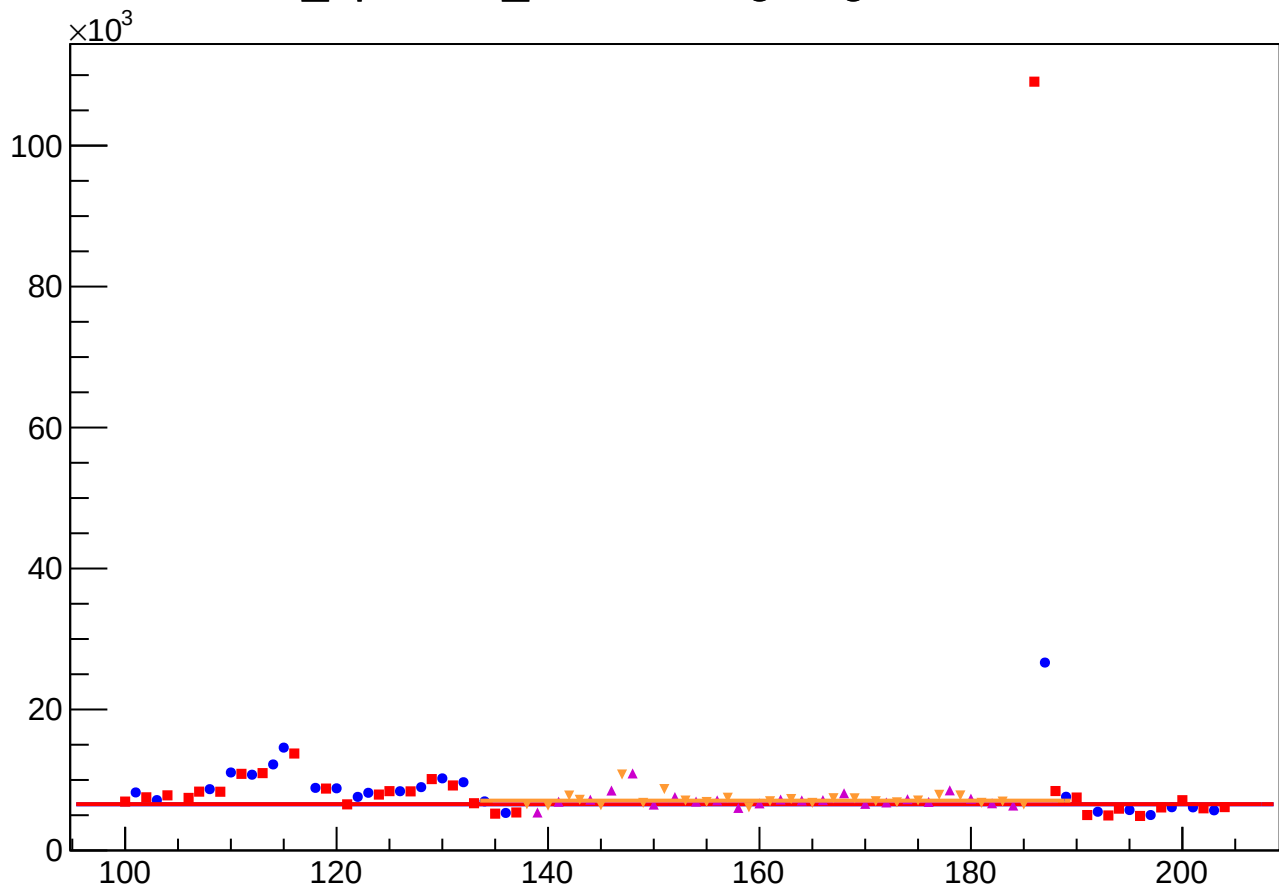
Right: -0.388 ± 1.336 $\chi^2/\text{NDF}: 52.5/54$

In: 0.223 ± 1.279 $\chi^2/\text{NDF}: 60.7/47$

Out: 0.413 ± 1.230 $\chi^2/\text{NDF}: 49.4/54$

All: 0.321 ± 0.886 $\chi^2/\text{NDF}: 110.1/102$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6543.377 ± 1.380 $\chi^2/\text{NDF}: 1501801.1/24$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6570.706 ± 1.296 $\chi^2/\text{NDF}: 2099361.9/29$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

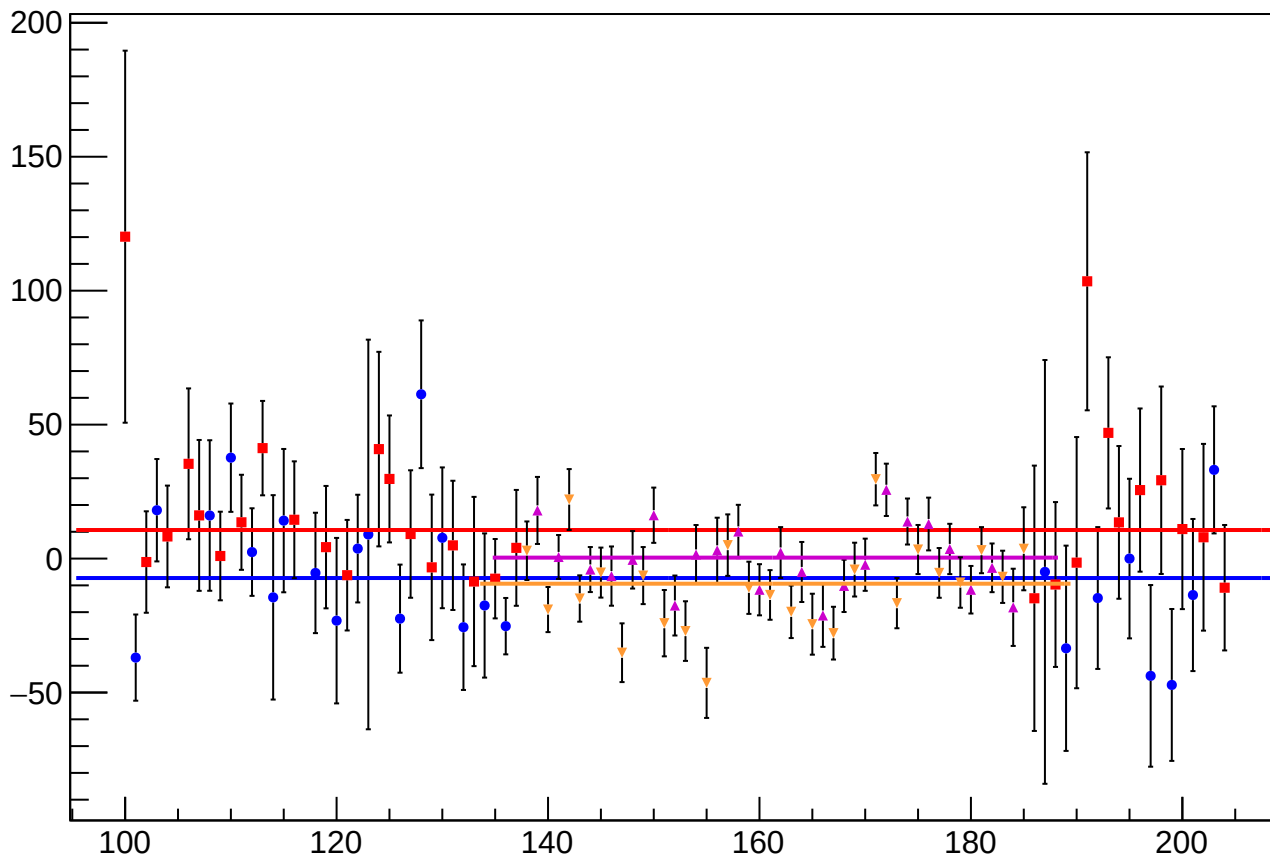
Right: 6557.905 ± 0.945 $\chi^2/\text{NDF}: 3601371.5/54$

In: 6804.237 ± 0.904 $\chi^2/\text{NDF}: 2114433.0/47$

Out: 6843.339 ± 0.870 $\chi^2/\text{NDF}: 2567398.0/54$

All: 6824.557 ± 0.627 $\chi^2/\text{NDF}: 4682802.4/100$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.258 ± 4.573 $\chi^2/\text{NDF}: 29.9/24$

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

Right Out: 10.664 ± 4.459 $\chi^2/\text{NDF}: 19.0/29$

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

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

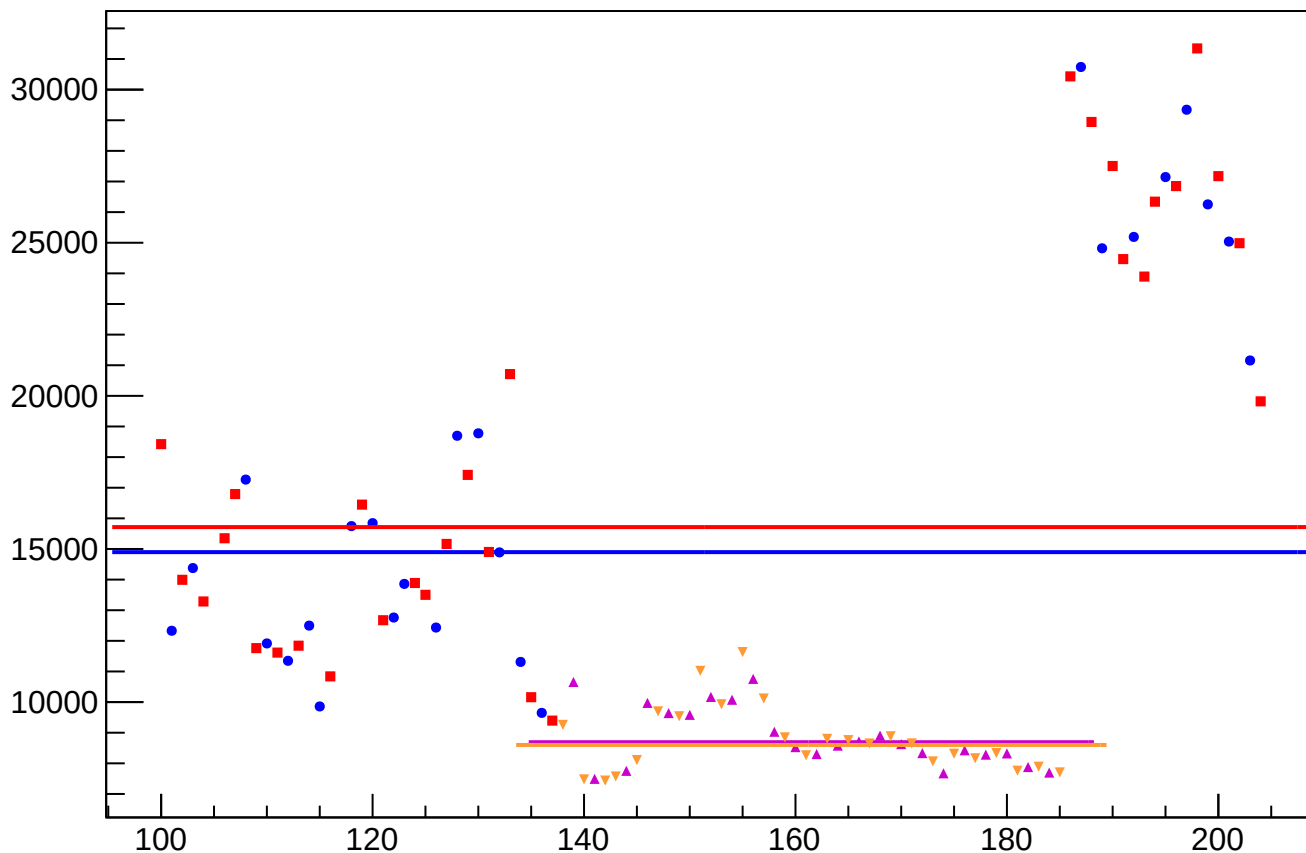
Right: 1.929 ± 3.193 $\chi^2/\text{NDF}: 56.8/54$

In: -0.964 ± 1.903 $\chi^2/\text{NDF}: 61.8/47$

Out: -5.970 ± 1.838 $\chi^2/\text{NDF}: 94.2/54$

All: -3.553 ± 1.322 $\chi^2/\text{NDF}: 159.6/102$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14896.800 $\pm$ 3.234 χ^2 /NDF: 2888697.4/24

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

Right Out: 15714.590 $\pm$ 3.153 χ^2 /NDF: 3403254.3/29

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

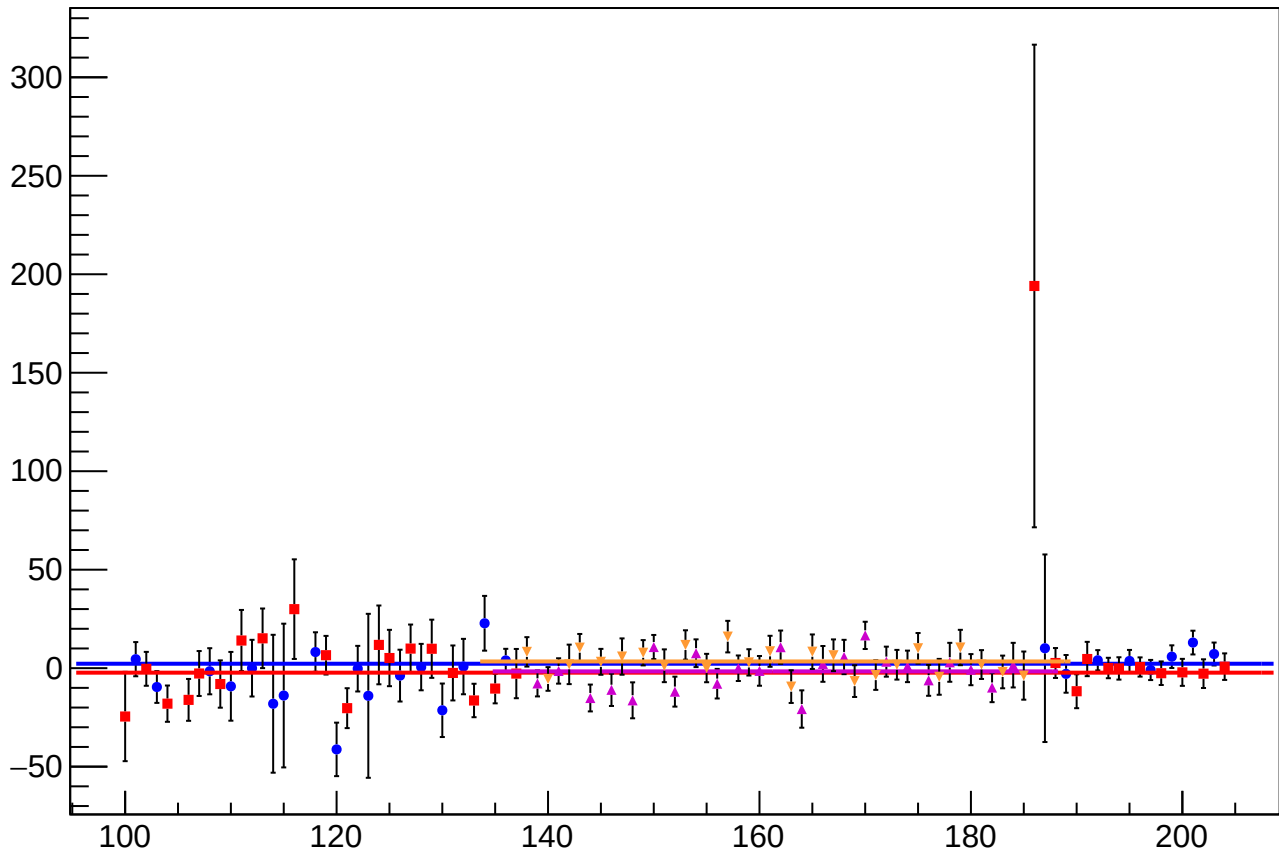
Right: 15316.030 $\pm$ 2.258 χ^2 /NDF: 6324736.7/54

In: 9764.407 $\pm$ 1.345 χ^2 /NDF:6305694.5/47

Out: 9809.568 $\pm$ 1.300 χ^2 /NDF:8067026.5/54

All: 9787.763 $\pm$ 0.935 χ^2 /NDF: 14373303.8/101

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.250 ± 1.732 χ^2/NDF : 24.8/24

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.283 ± 1.607 χ^2/NDF : 26.0/29

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

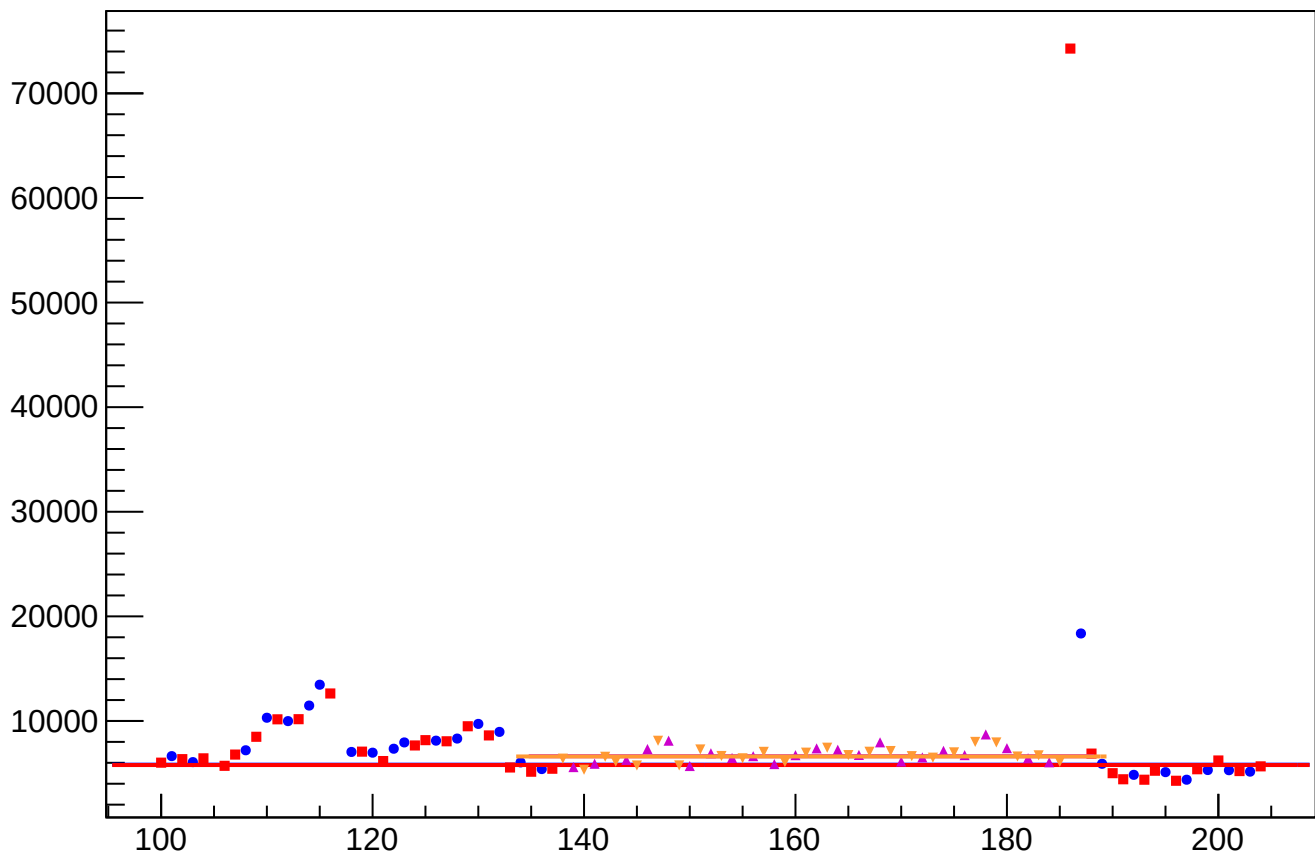
Right: -0.186 ± 1.178 χ^2/NDF : 54.5/54

In: 0.157 ± 1.175 χ^2/NDF : 61.0/47

Out: 0.664 ± 1.116 χ^2/NDF : 49.3/54

All: 0.423 ± 0.809 χ^2/NDF : 110.4/102

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5822.436+/-1.225 χ^2/NDF : 1454206.5/24

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5786.821+/-1.137 χ^2/NDF : 2129275.0/29

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

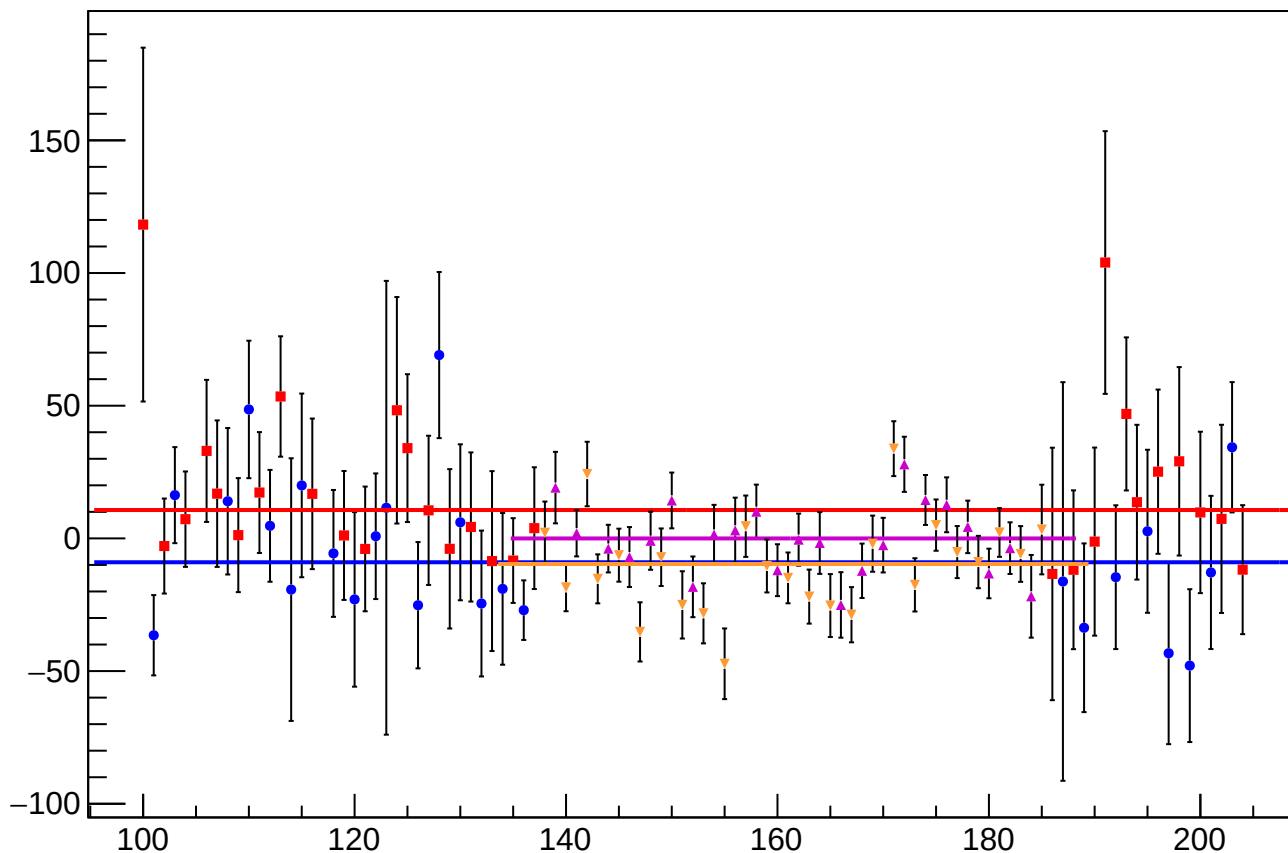
Right: 5803.298+/-0.833 χ^2/NDF : 3583935.7/54

In: 6257.739+/-0.831 χ^2/NDF : 2118372.7/47

Out: 6211.745+/-0.789 χ^2/NDF : 2797506.7/54

All: 6233.556+/-0.572 χ^2/NDF : 4917490.6/100

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.996 ± 4.924 $\chi^2/\text{NDF}: 29.2/24$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 10.693 ± 4.842 $\chi^2/\text{NDF}: 19.4/29$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

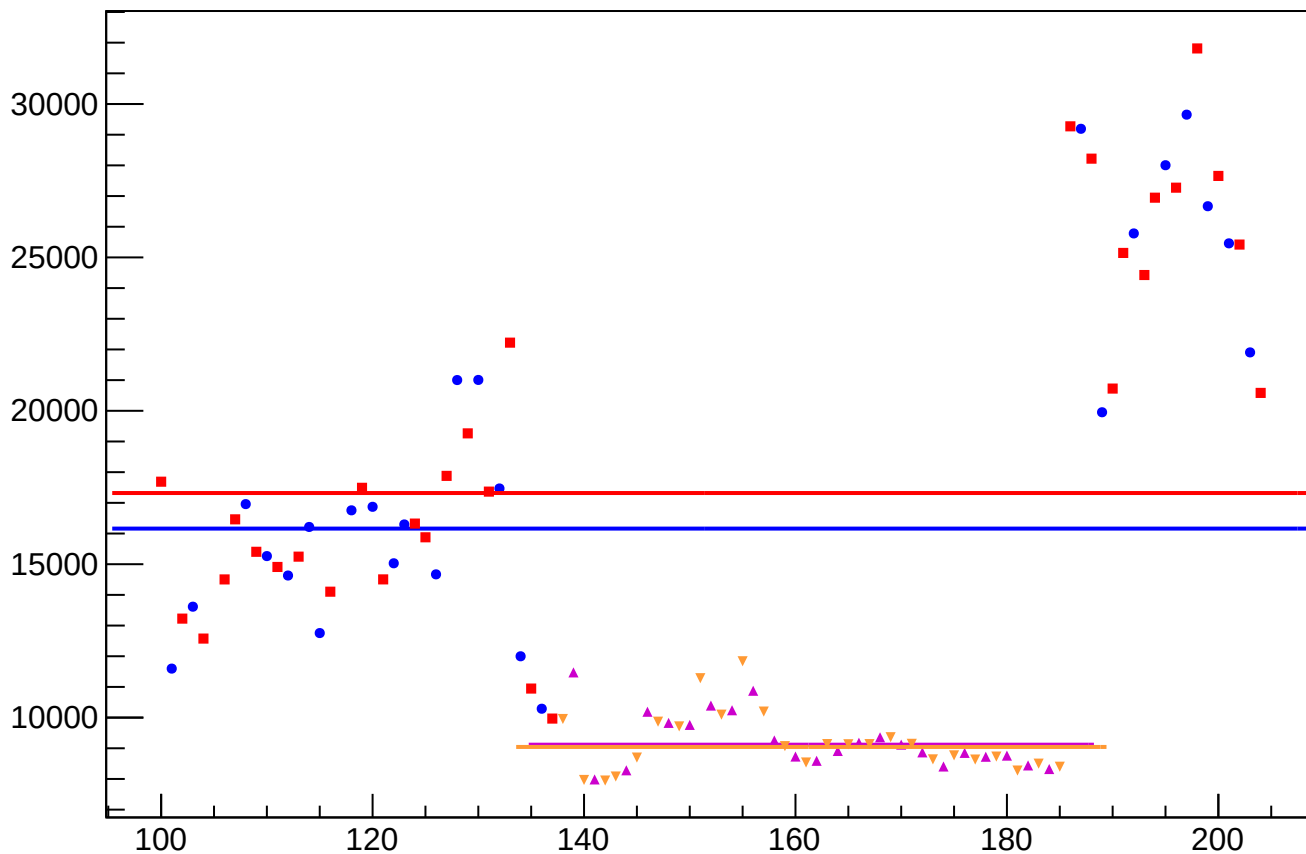
Right: 1.014 ± 3.452 $\chi^2/\text{NDF}: 56.8/54$

In: -1.504 ± 2.003 $\chi^2/\text{NDF}: 62.6/47$

Out: -6.381 ± 1.941 $\chi^2/\text{NDF}: 94.0/54$

All: -4.019 ± 1.394 $\chi^2/\text{NDF}: 159.7/102$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16160.735 $\pm$ 3.482 χ^2 /NDF: 2497824.9/24

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 17320.048 $\pm$ 3.424 χ^2 /NDF: 2670211.3/29

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF: 277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

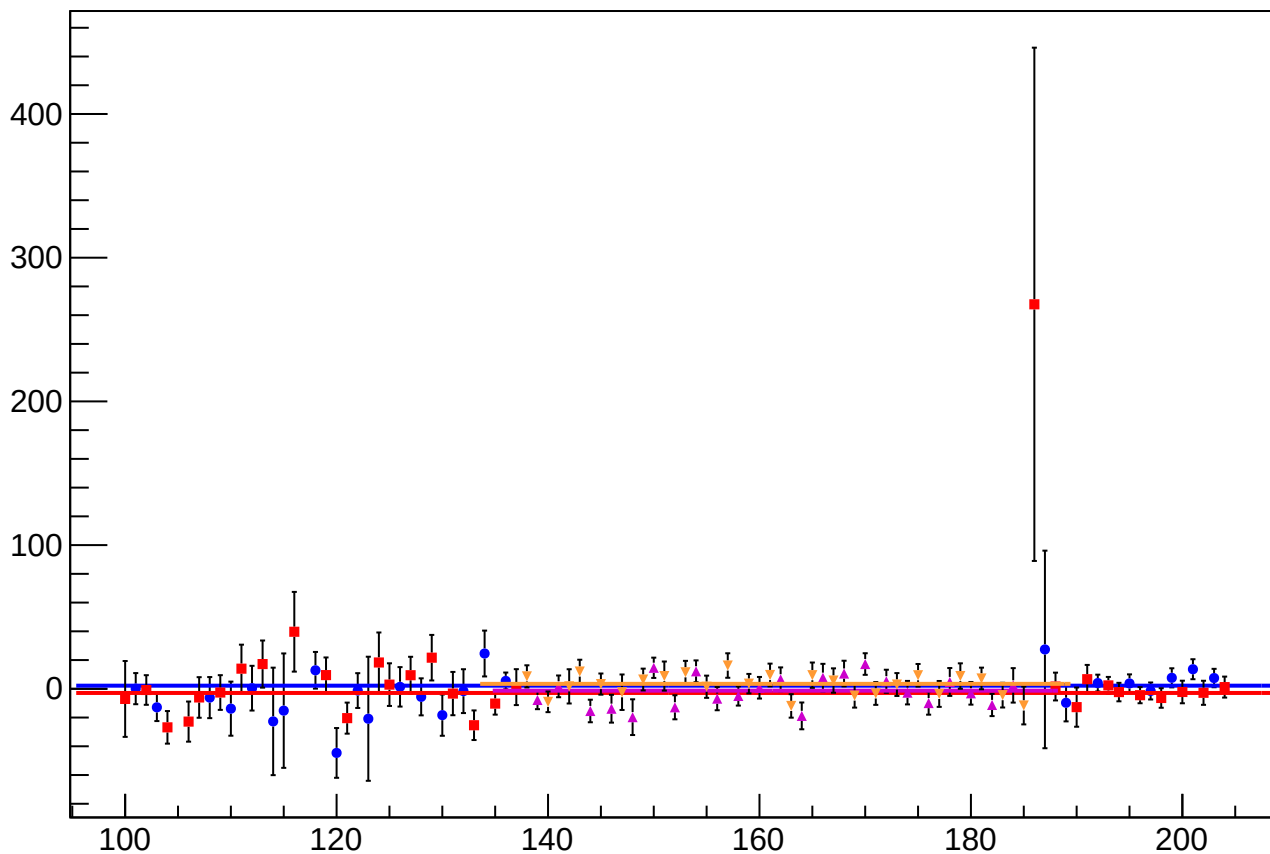
Right: 16750.135 $\pm$ 2.441 χ^2 /NDF: 5224404.6/54

In: 10282.006 $\pm$ 1.416 χ^2 /NDF: 6191409.7/47

Out: 10373.129 $\pm$ 1.372 χ^2 /NDF: 7903745.2/54

All: 10328.997 $\pm$ 0.985 χ^2 /NDF: 14097290.4

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 2.177 $\pm$ 1.960 χ^2/NDF : 22.9/24

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

Right Out: -2.891 $\pm$ 1.840 χ^2/NDF : 30.9/29

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

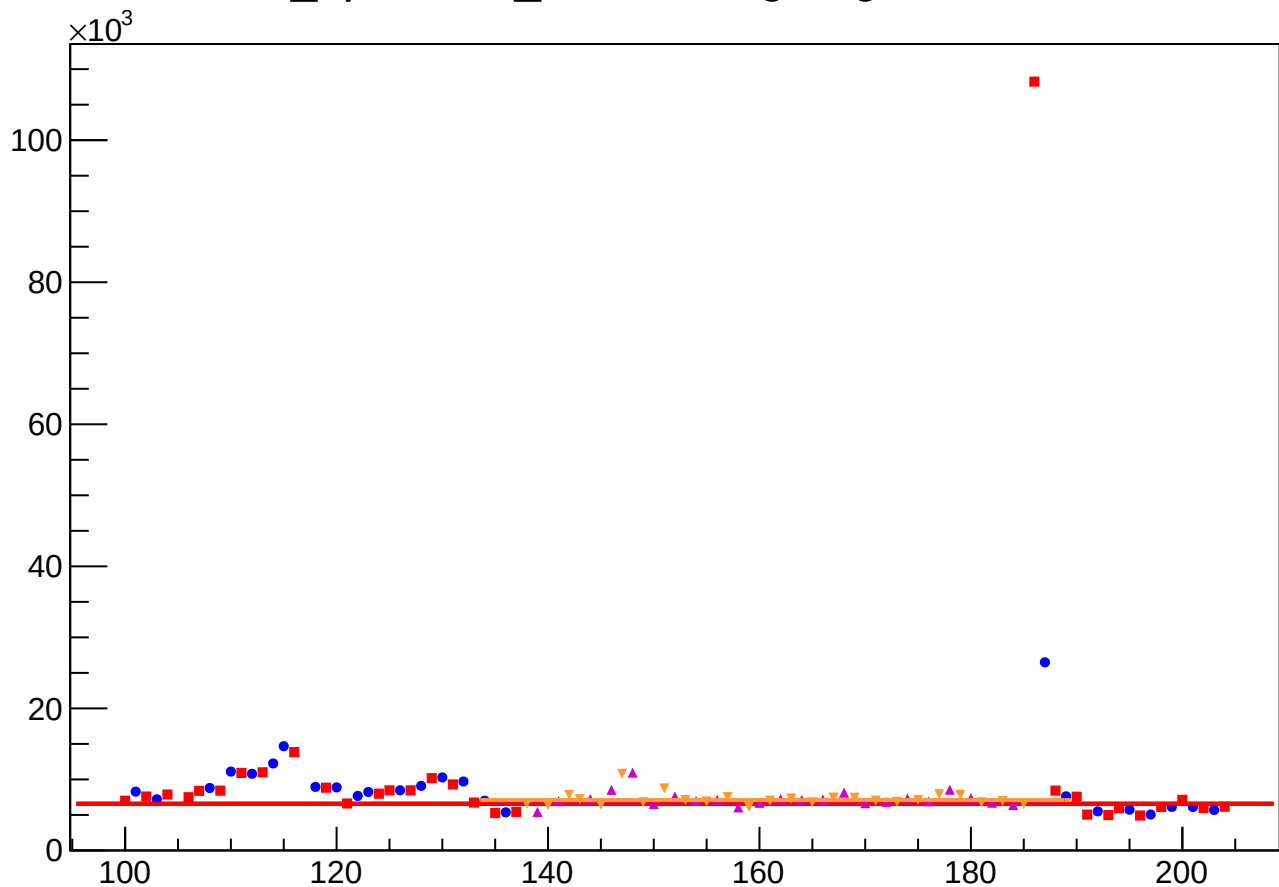
Right: -0.517 $\pm$ 1.341 χ^2/NDF : 57.4/54

In: 0.199 $\pm$ 1.285 χ^2/NDF : 61.3/47

Out: 0.588 $\pm$ 1.235 χ^2/NDF : 56.3/54

All: 0.401 $\pm$ 0.890 χ^2/NDF : 117.6/102

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6569.657 $\pm$ 1.386 χ^2 /NDF: 1511444.6/24

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

Right Out: 6599.754 $\pm$ 1.301 χ^2 /NDF: 2104286.6/29

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

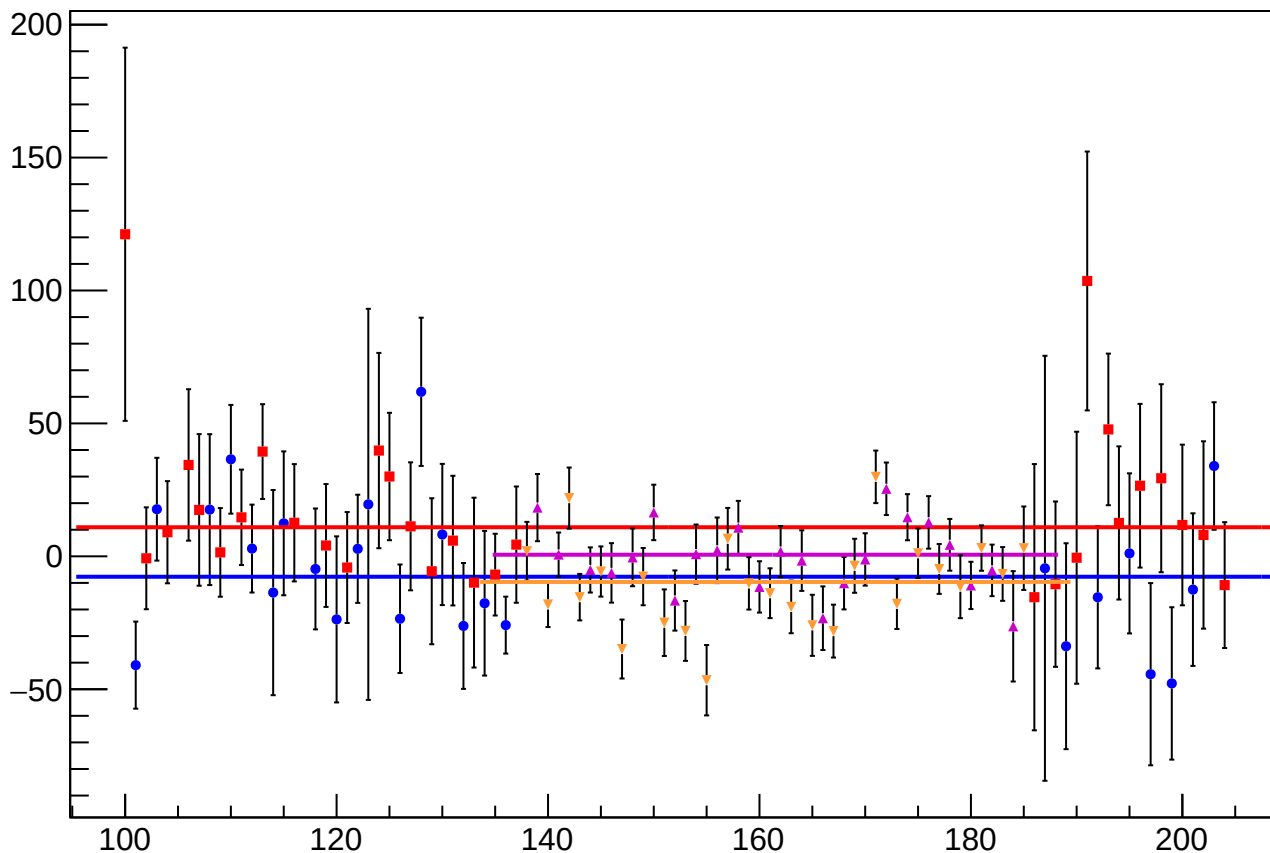
Right: 6585.653 $\pm$ 0.949 χ^2 /NDF: 3615981.9/54

In: 6834.342 $\pm$ 0.908 χ^2 /NDF: 2116435.7/47

Out: 6873.939 $\pm$ 0.873 χ^2 /NDF: 2567650.3/54

All: 6854.918 $\pm$ 0.630 χ^2 /NDF: 4685073.5/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.680 $\pm$ 4.633 χ^2/NDF : 30.6/24

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

Right Out: 10.942 $\pm$ 4.519 χ^2/NDF : 18.1/29

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

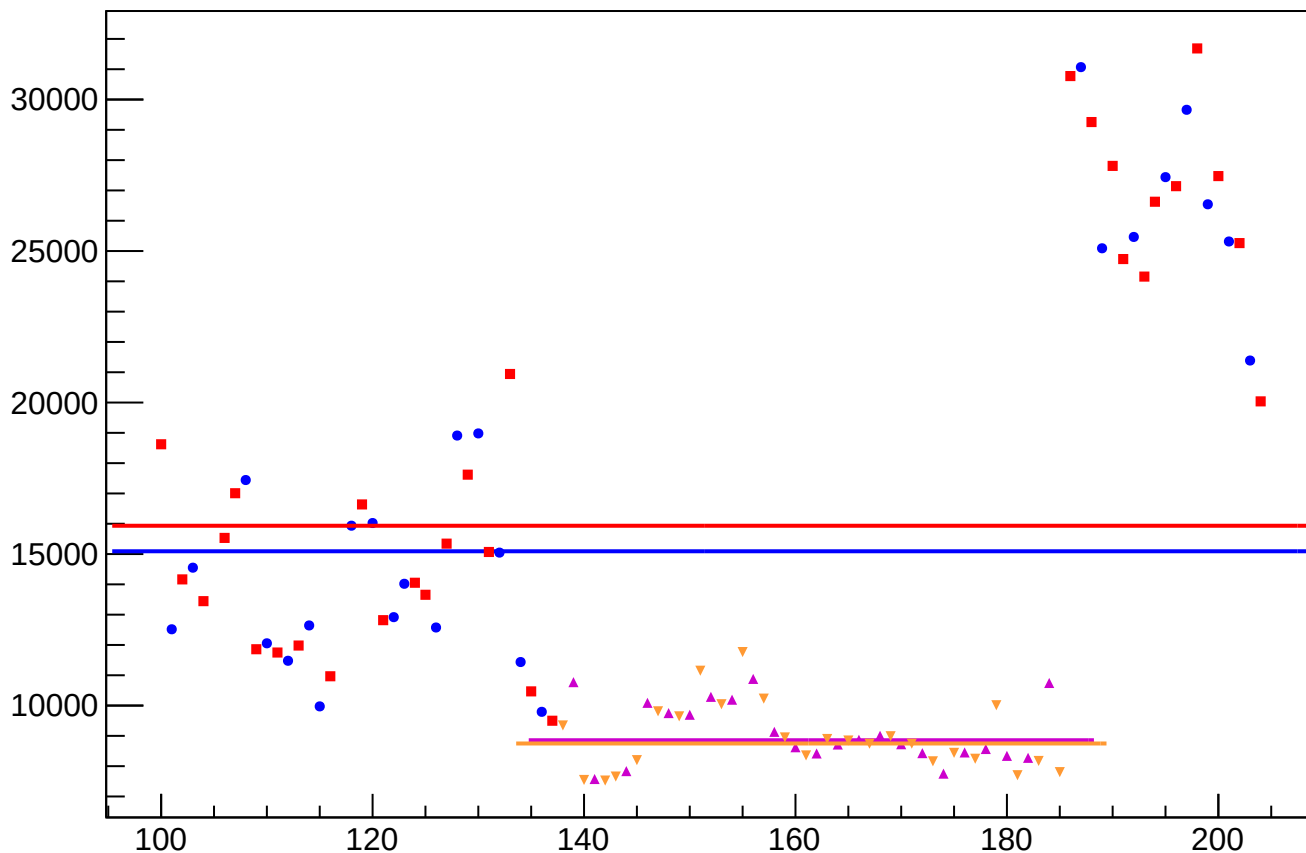
Right: 1.861 $\pm$ 3.235 χ^2/NDF : 57.0/54

In: -0.851 $\pm$ 1.939 χ^2/NDF : 62.9/47

Out: -6.107 $\pm$ 1.872 χ^2/NDF : 92.9/54

All: -3.571 $\pm$ 1.347 χ^2/NDF : 159.6/102

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15092.051+/-3.276 χ^2/NDF : 2870574.8/24

Left Out: 8748.407+/-1.455 χ^2/NDF : 463394.1/24

Right Out: 15934.026+/-3.196 χ^2/NDF : 3369806.4/29

Left In: 8855.591+/-1.510 χ^2/NDF : 367542.7/22

Left: 8800.011+/-1.048 χ^2/NDF : 833550.6/47

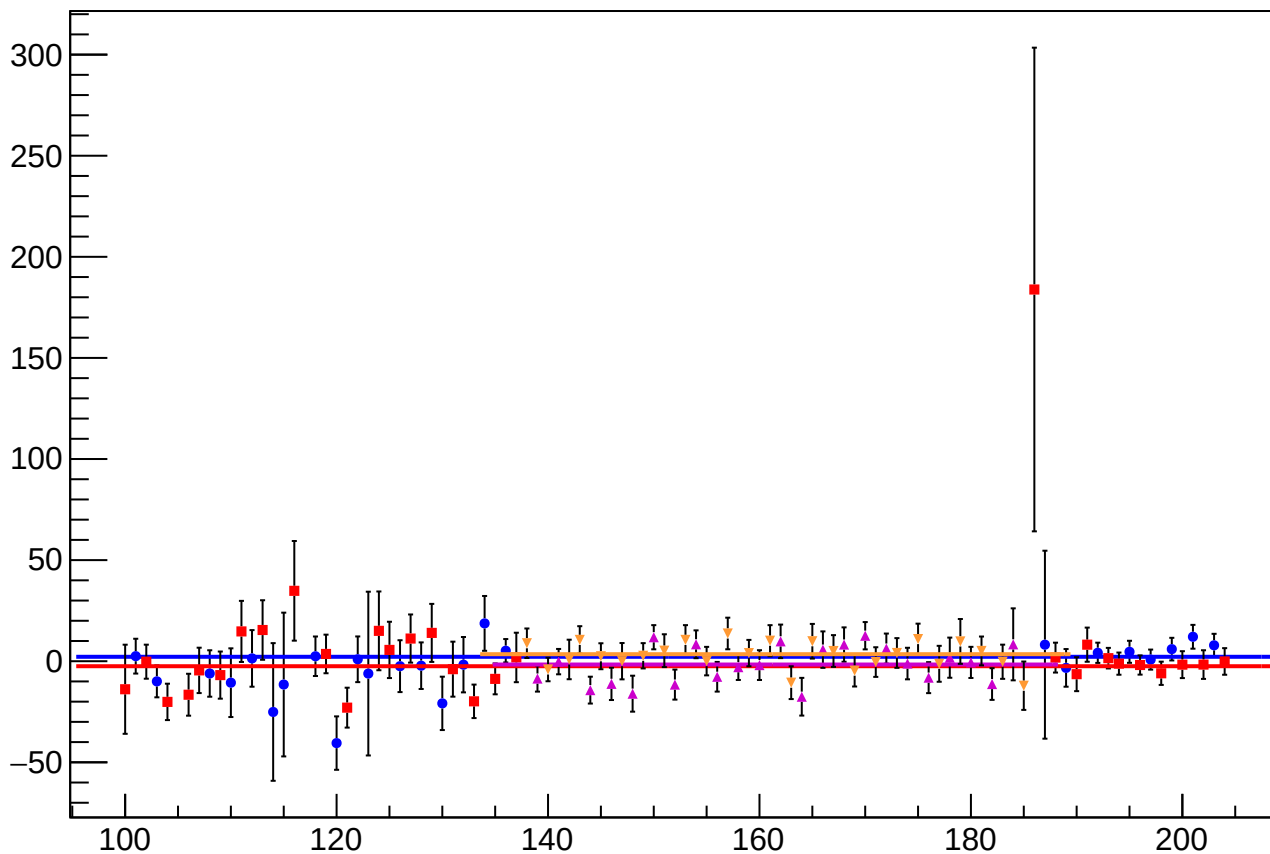
Right: 15523.446+/-2.288 χ^2/NDF : 6274230.5/54

In: 9948.151+/-1.371 χ^2/NDF : 6227658.8/47

Out: 9981.750+/-1.324 χ^2/NDF : 8021124.7/54

All: 9965.537+/-0.952 χ^2/NDF : 14249094.2/101

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.187 ± 1.690 $\chi^2/\text{NDF}: 25.0/24$

Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$

Right Out: -2.475 ± 1.567 $\chi^2/\text{NDF}: 30.8/29$

Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$

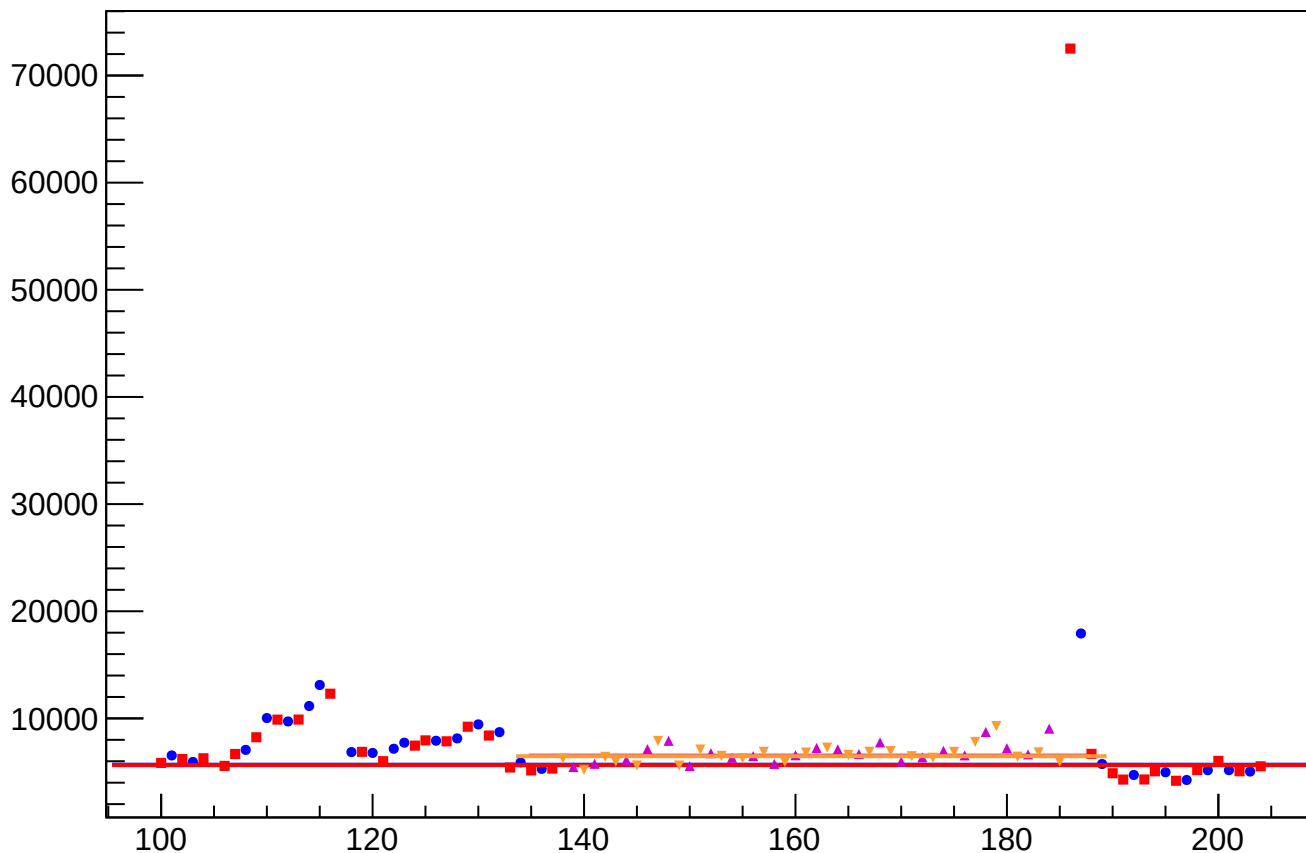
Right: -0.320 ± 1.149 $\chi^2/\text{NDF}: 59.8/54$

In: 0.143 ± 1.153 $\chi^2/\text{NDF}: 61.5/47$

Out: 0.582 ± 1.093 $\chi^2/\text{NDF}: 53.9/54$

All: 0.374 ± 0.793 $\chi^2/\text{NDF}: 115.5/102$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5676.444+/-1.195 χ^2/NDF : 1461406.3/24

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5639.855+/-1.108 χ^2/NDF : 2120071.4/29

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

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

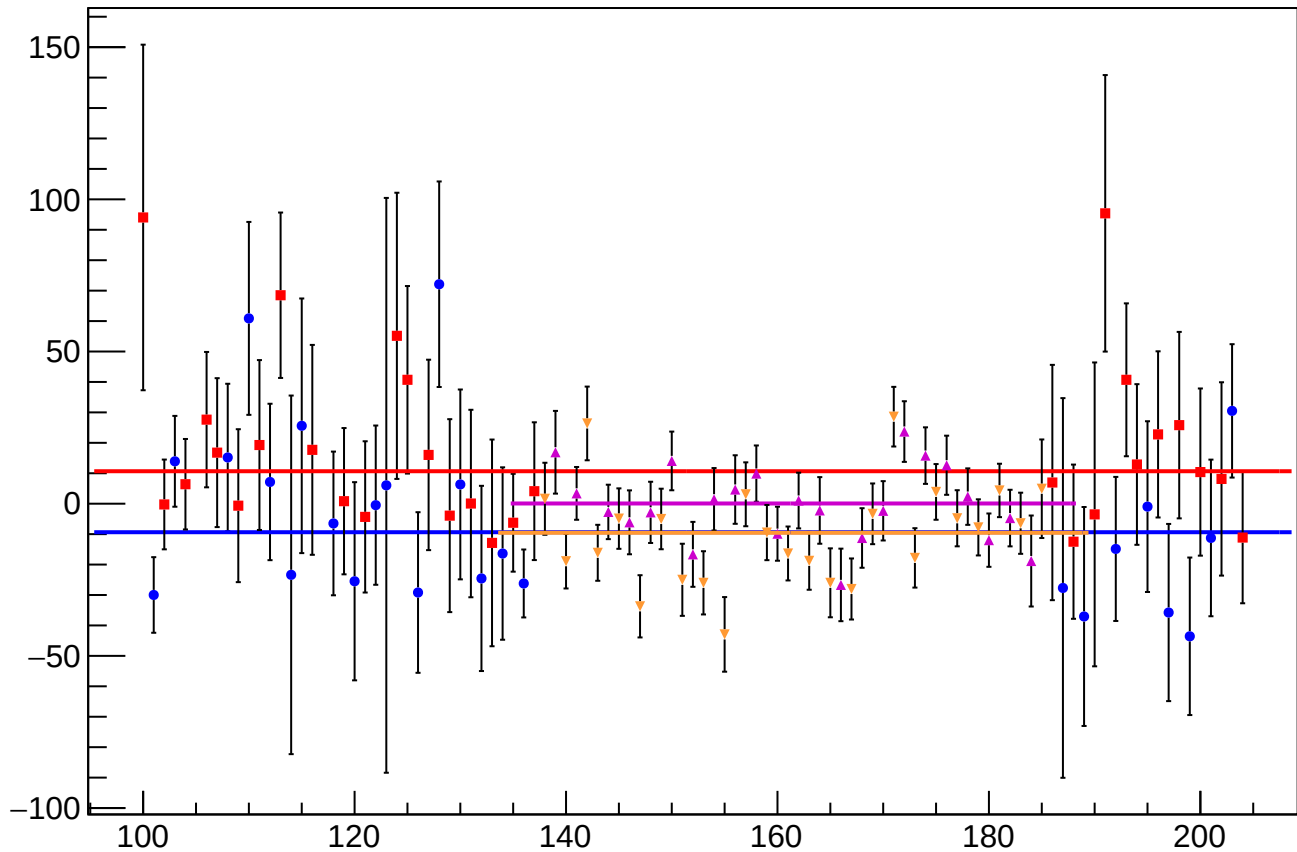
Right: 5656.773+/-0.813 χ^2/NDF : 3581981.8/54

In: 6128.182+/-0.816 χ^2/NDF : 2208914.1/47

Out: 6067.477+/-0.773 χ^2/NDF : 2900084.4/54

All: 6096.192+/-0.561 χ^2/NDF : 5111918.3/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.371 ± 4.745 χ^2/NDF : 28.6/24

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 10.668 ± 4.672 χ^2/NDF : 20.0/29

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

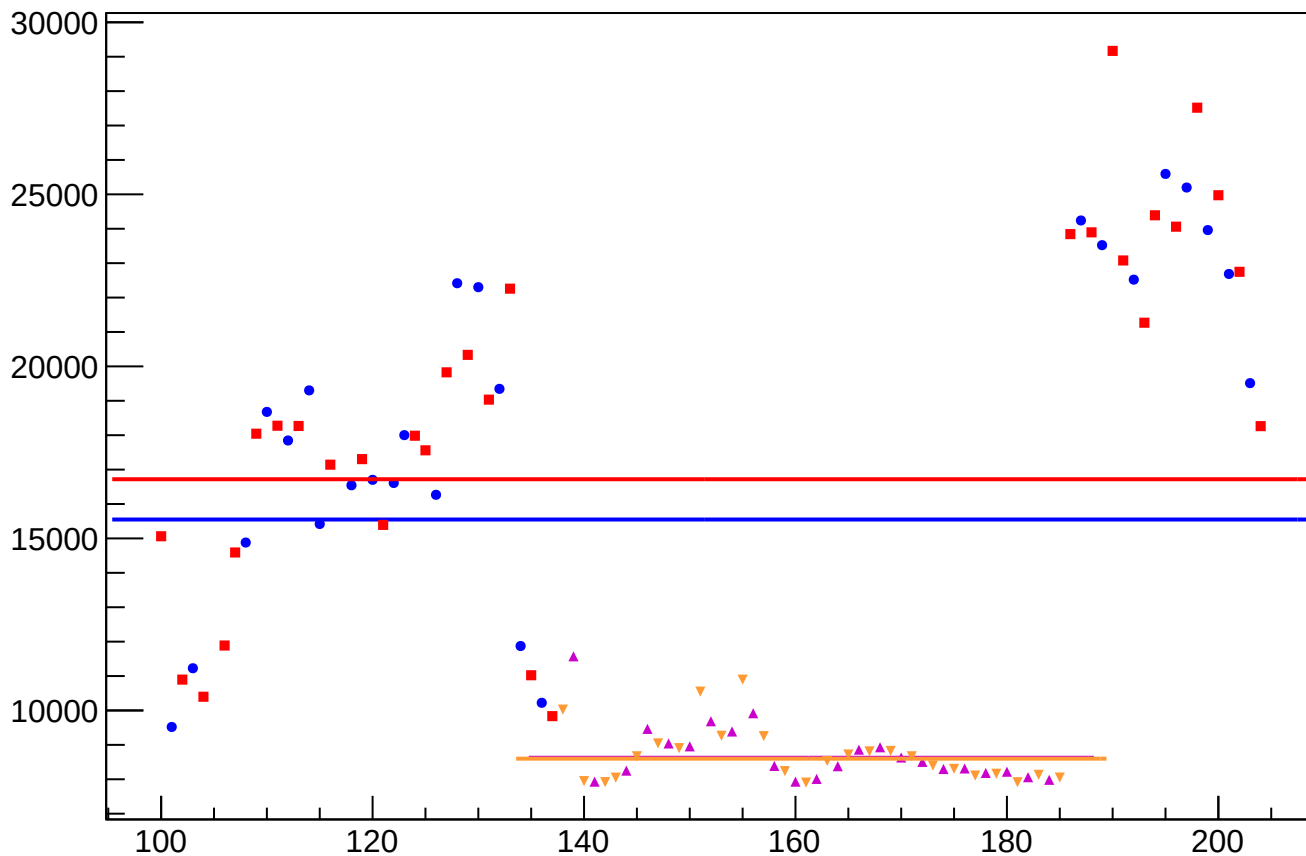
Right: 0.804 ± 3.329 χ^2/NDF : 57.7/54

In: -1.441 ± 1.899 χ^2/NDF : 61.8/47

Out: -6.391 ± 1.848 χ^2/NDF : 95.4/54

All: -3.985 ± 1.324 χ^2/NDF : 160.6/102

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15549.315+/-3.355 χ^2/NDF : 2610844.9/24

Left Out: 8598.983+/-1.423 χ^2/NDF : 249070.5/24

Right Out: 16720.042+/-3.304 χ^2/NDF : 2642130.5/29

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

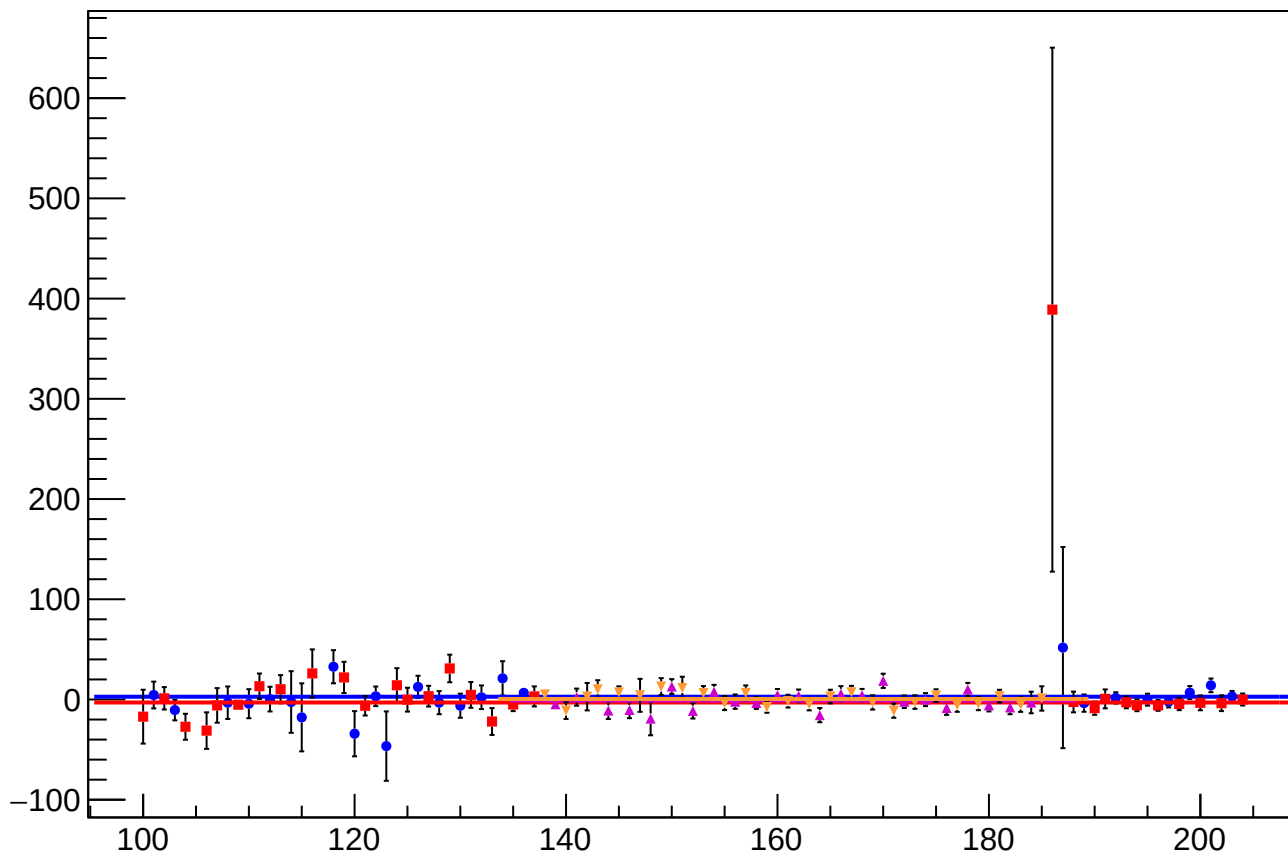
Right: 16143.764+/-2.354 χ^2/NDF : 5314788.7/54

In: 9734.647+/-1.343 χ^2/NDF : 6424171.3/47

Out: 9869.159+/-1.307 χ^2/NDF : 7988661.5/54

All: 9803.758+/-0.937 χ^2/NDF : 14417986.2/100

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.756 ± 1.789 $\chi^2/\text{NDF}: 18.9/24$

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

Right Out: -3.004 ± 1.599 $\chi^2/\text{NDF}: 27.6/29$

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

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

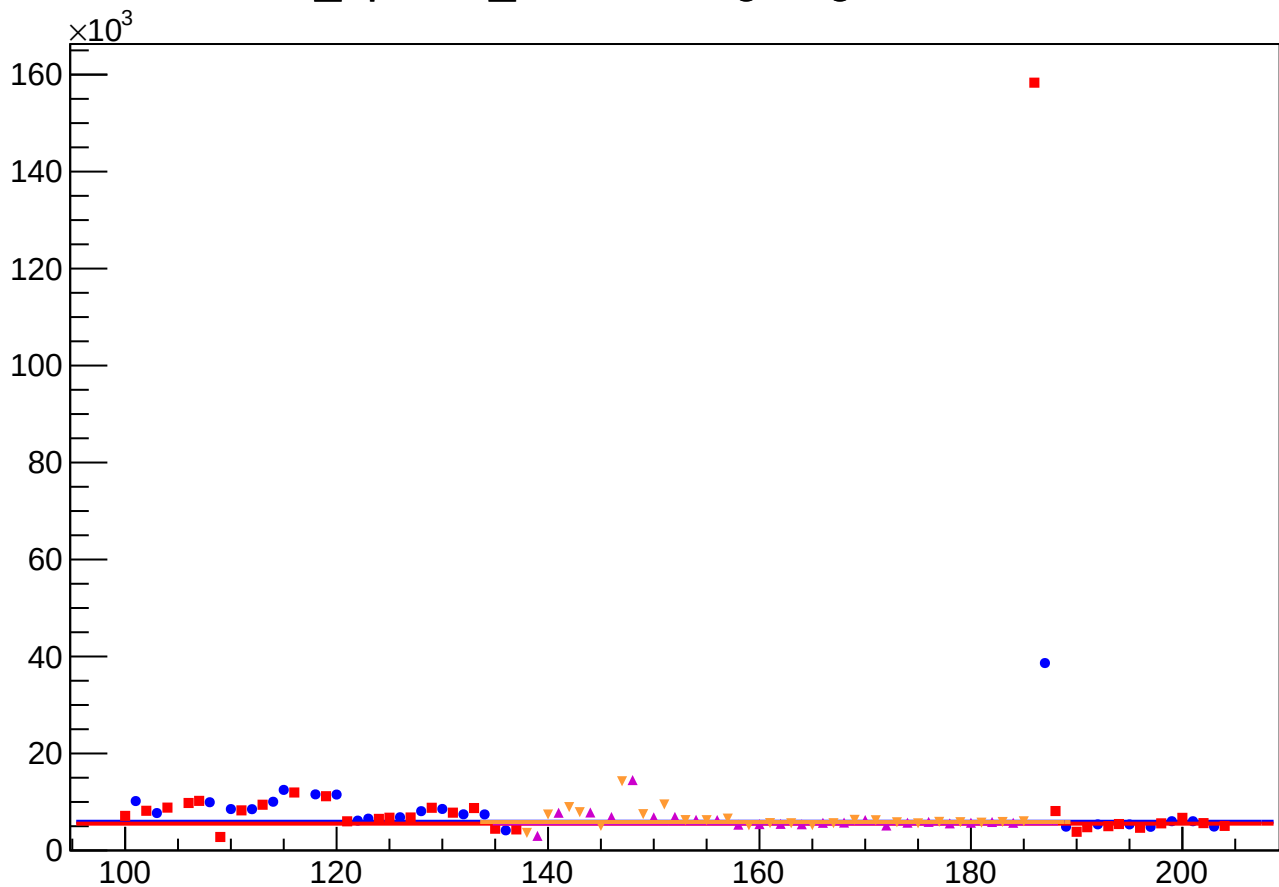
Right: -0.445 ± 1.192 $\chi^2/\text{NDF}: 52.3/54$

In: 0.390 ± 1.100 $\chi^2/\text{NDF}: 54.3/47$

Out: -1.026 ± 1.061 $\chi^2/\text{NDF}: 49.8/54$

All: -0.344 ± 0.764 $\chi^2/\text{NDF}: 104.9/102$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5919.717 $\pm$ 1.265 χ^2/NDF : 1959060.3/24

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

Right Out: 5525.818 $\pm$ 1.131 χ^2/NDF : 3398288.4/29

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

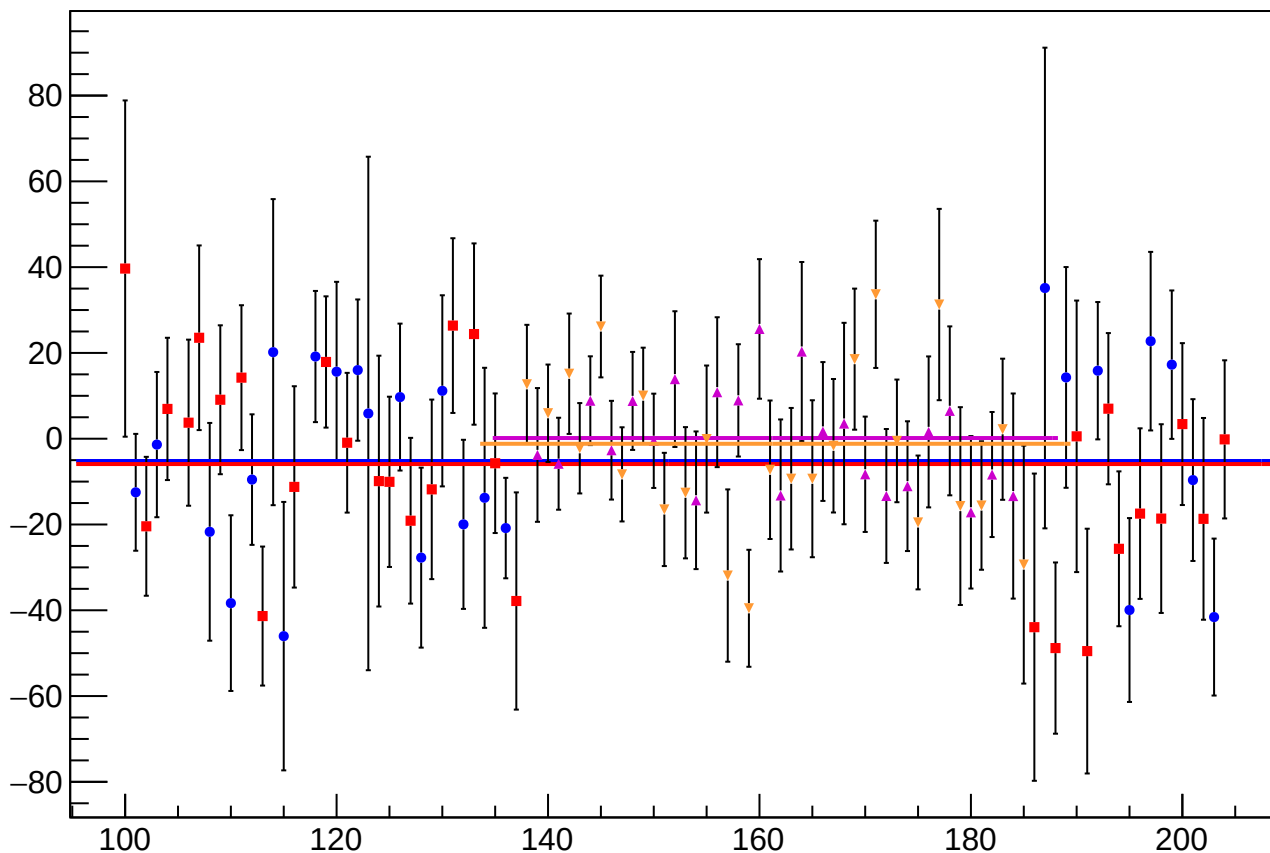
Right: 5700.813 $\pm$ 0.843 χ^2/NDF : 5411240.4/54

In: 5703.141 $\pm$ 0.778 χ^2/NDF : 4169006.7/47

Out: 5713.311 $\pm$ 0.750 χ^2/NDF : 5137413.1/54

All: 5708.412 $\pm$ 0.540 χ^2/NDF : 9306508.4/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.198 ± 3.850 χ^2/NDF : 28.7/24

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

Right Out: -5.910 ± 3.627 χ^2/NDF : 32.3/29

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

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

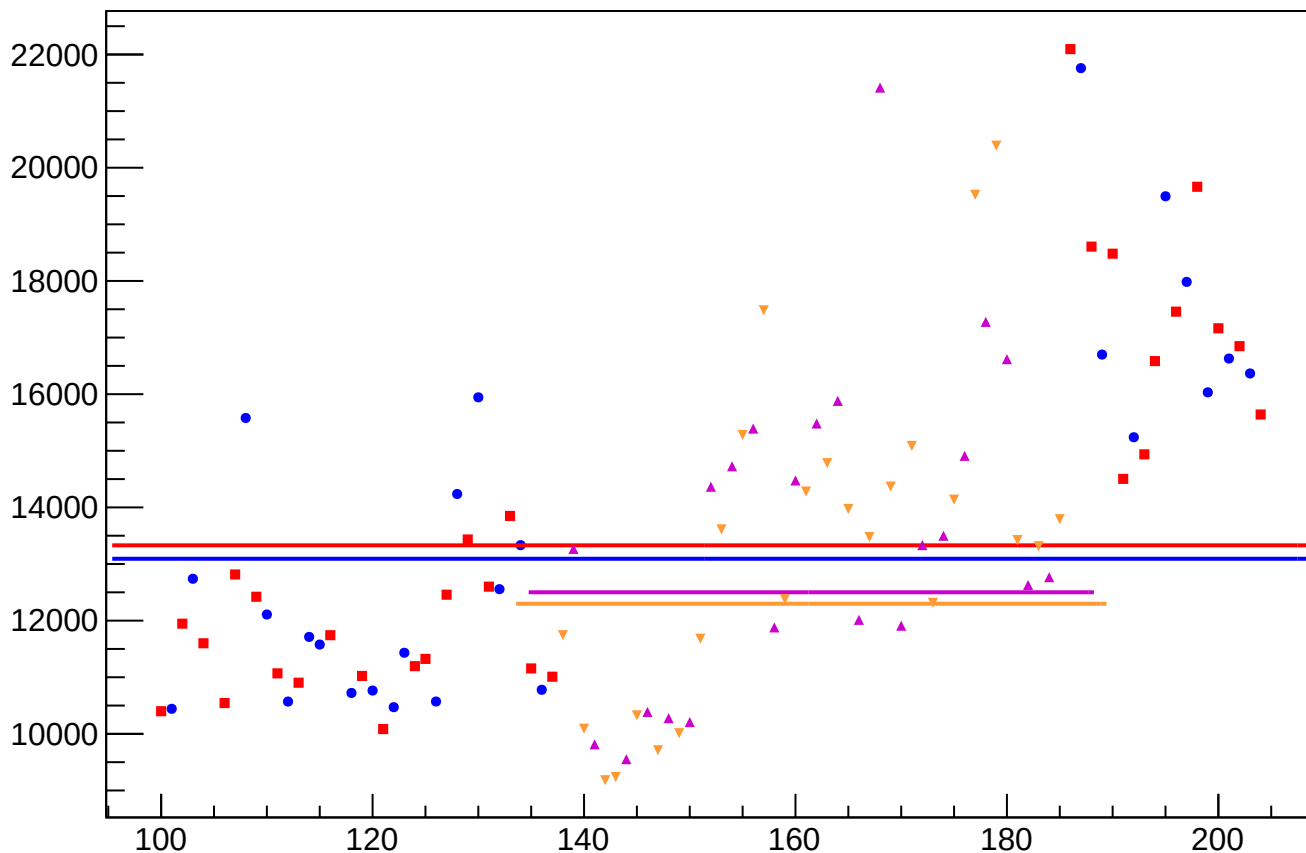
Right: -5.575 ± 2.640 χ^2/NDF : 61.0/54

In: -1.914 ± 2.395 χ^2/NDF : 41.4/47

Out: -3.056 ± 2.283 χ^2/NDF : 67.0/54

All: -2.512 ± 1.653 χ^2/NDF : 108.6/102

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13092.906+/-2.722

χ^2/NDF : 1053782.0/24

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 13218.521+/-1.867 χ^2/NDF : 2267693.0/54

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 12729.836+/-1.693 χ^2/NDF : 2440675.5/47

Right Out: 13329.986+/-2.565

χ^2/NDF : 1209893.0/29

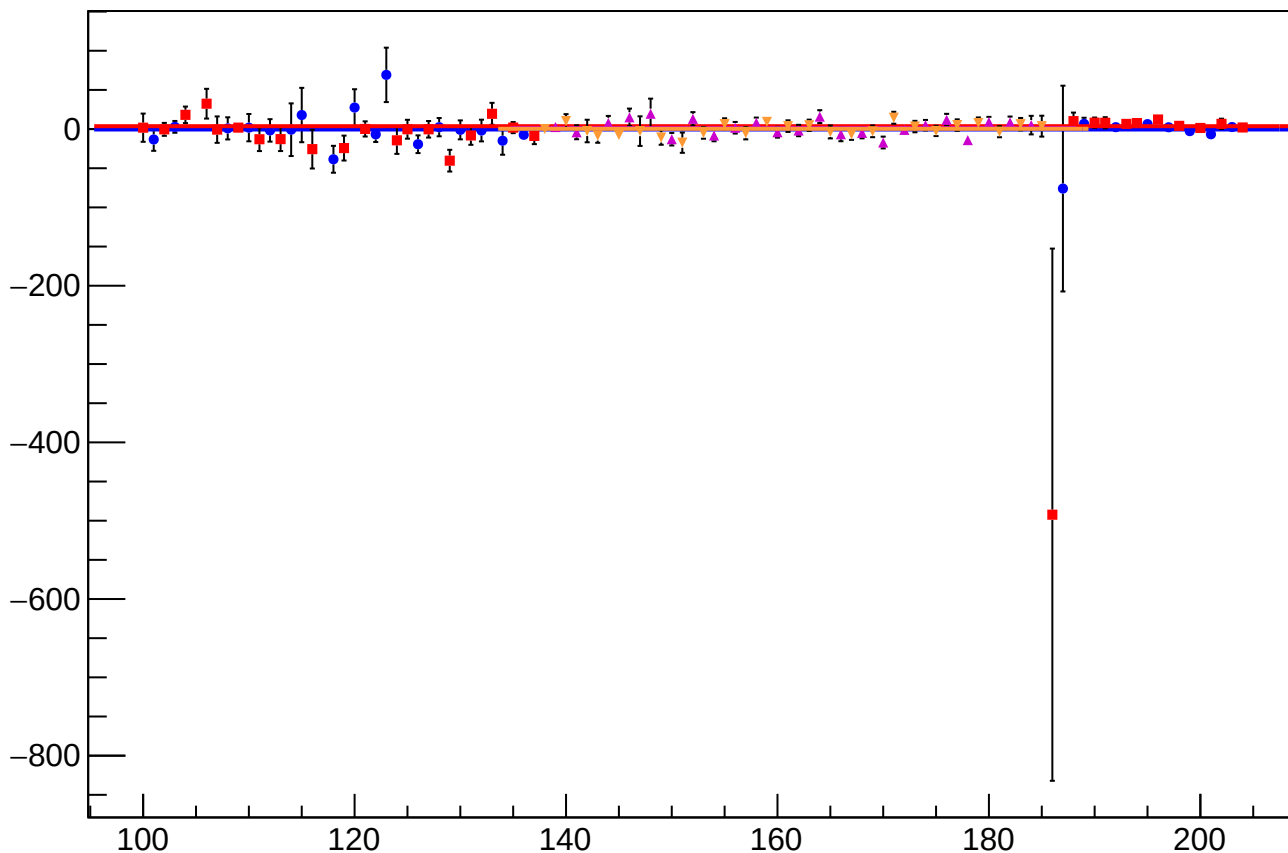
Out: 12707.437+/-1.615 χ^2/NDF : 2813538.8/54

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 12718.104+/-1.168 χ^2/NDF : 5254306.0/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.533 ± 1.579 χ^2/NDF : 23.4/24

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: 3.678 ± 1.410 χ^2/NDF : 34.6/29

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

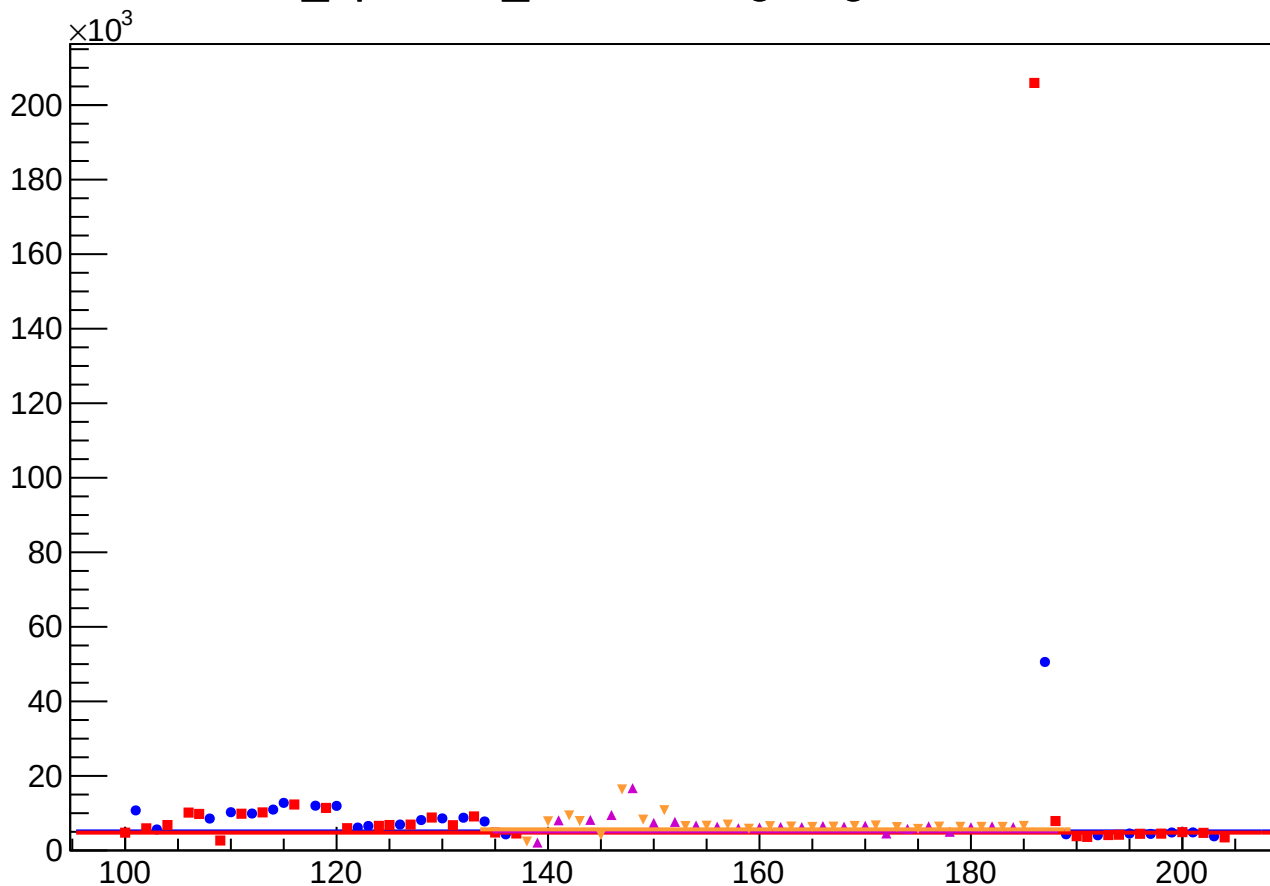
Right: 1.809 ± 1.052 χ^2/NDF : 61.9/54

In: 0.435 ± 1.035 χ^2/NDF : 57.6/47

Out: 2.043 ± 1.005 χ^2/NDF : 56.4/54

All: 1.262 ± 0.721 χ^2/NDF : 115.3/102

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5112.454 $\pm$ 1.116 χ^2/NDF : 2741772.9/24

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

Right Out: 4782.680 $\pm$ 0.997 χ^2/NDF : 3707938.2/29

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

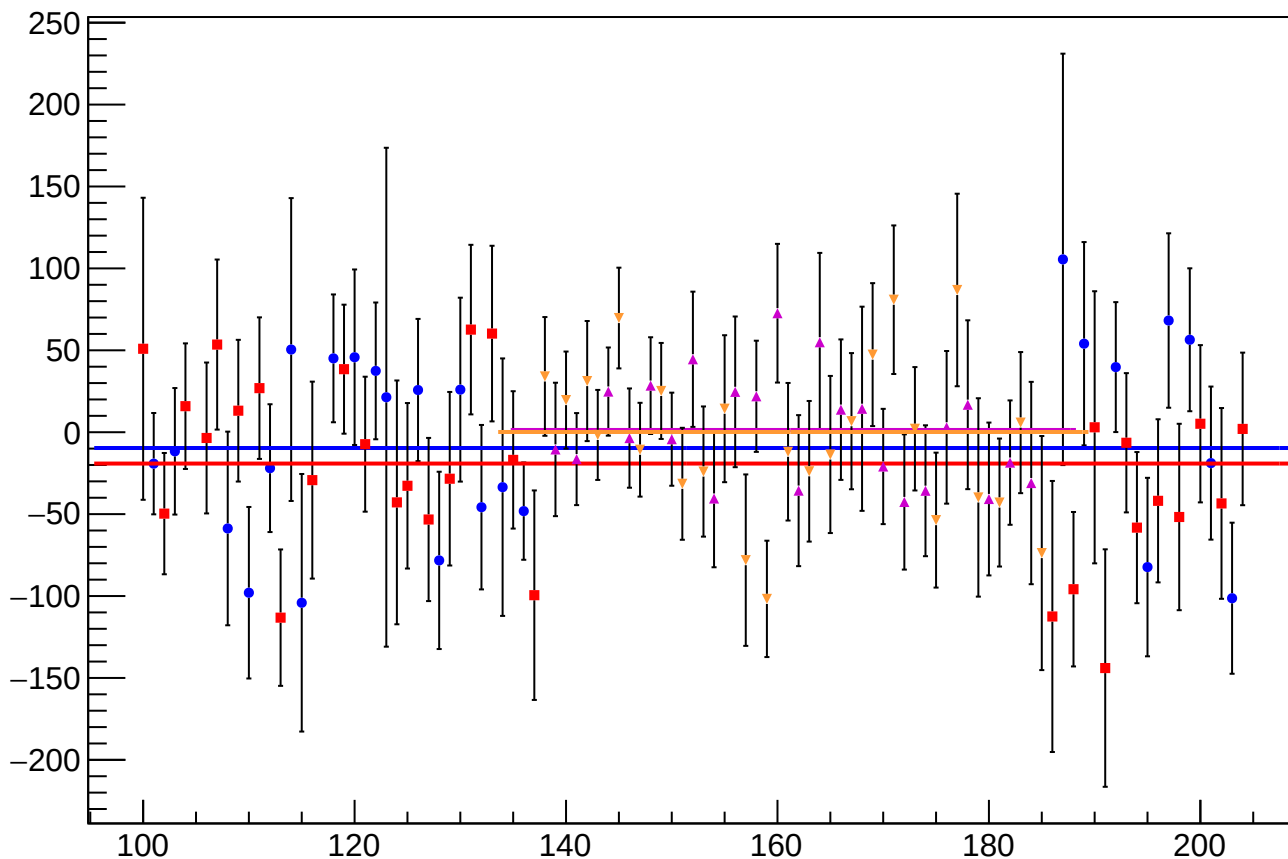
Right: 4929.042 $\pm$ 0.744 χ^2/NDF : 6498247.1/54

In: 5126.883 $\pm$ 0.732 χ^2/NDF : 8237675.8/47

Out: 5213.933 $\pm$ 0.711 χ^2/NDF : 8216739.6/54

All: 5171.688 $\pm$ 0.510 χ^2/NDF : 16461692.8/101

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.636 $\pm$ 9.574 χ^2/NDF : 28.6/24

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

Right Out: -19.130 $\pm$ 9.034 χ^2/NDF : 29.1/29

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

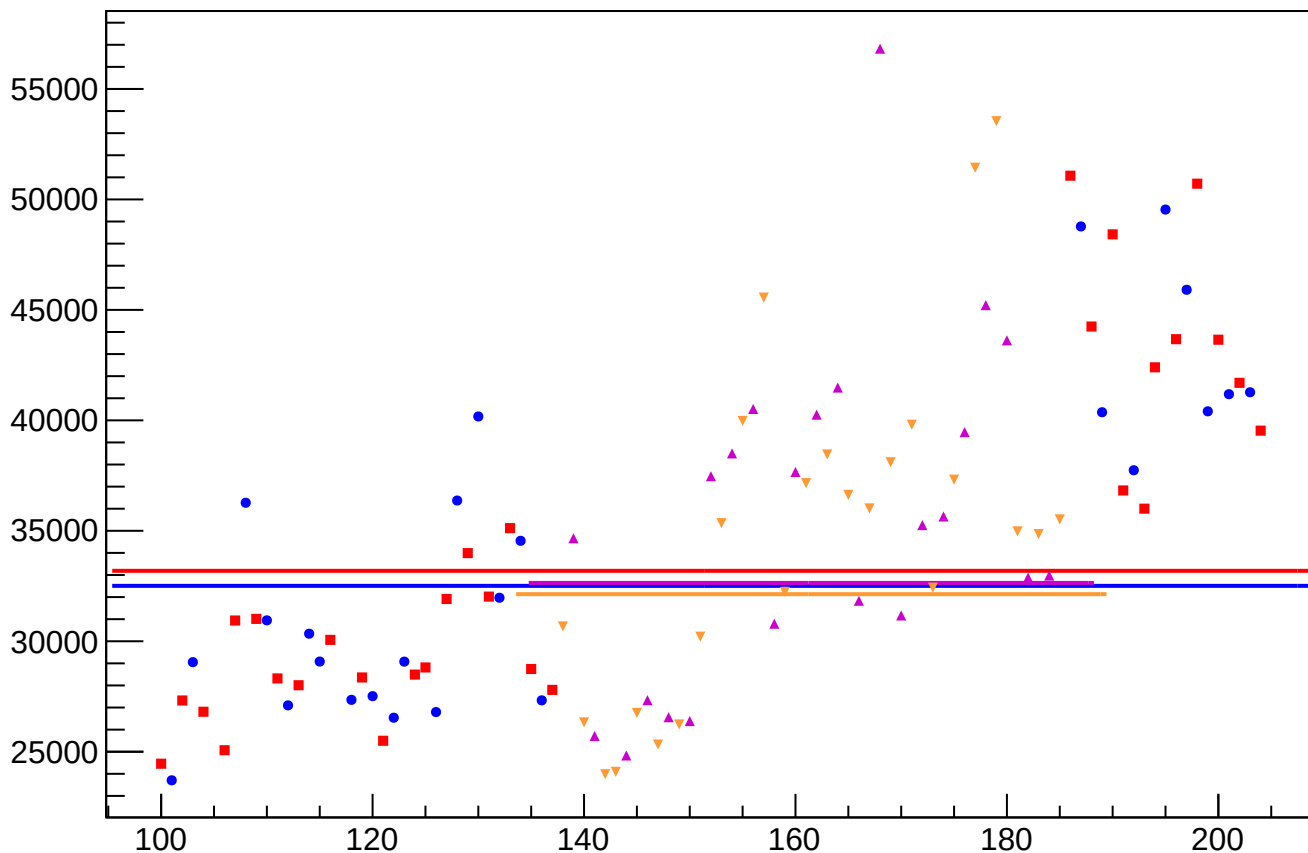
Right: -14.658 $\pm$ 6.571 χ^2/NDF : 58.2/54

In: -3.146 $\pm$ 6.134 χ^2/NDF : 42.6/47

Out: -7.946 $\pm$ 5.853 χ^2/NDF : 63.0/54

All: -5.659 $\pm$ 4.235 χ^2/NDF : 106.0/102

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32508.310+/-6.770

χ^2/NDF : 1099630.2/24

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 33189.275+/-6.388

χ^2/NDF : 1238764.2/29

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

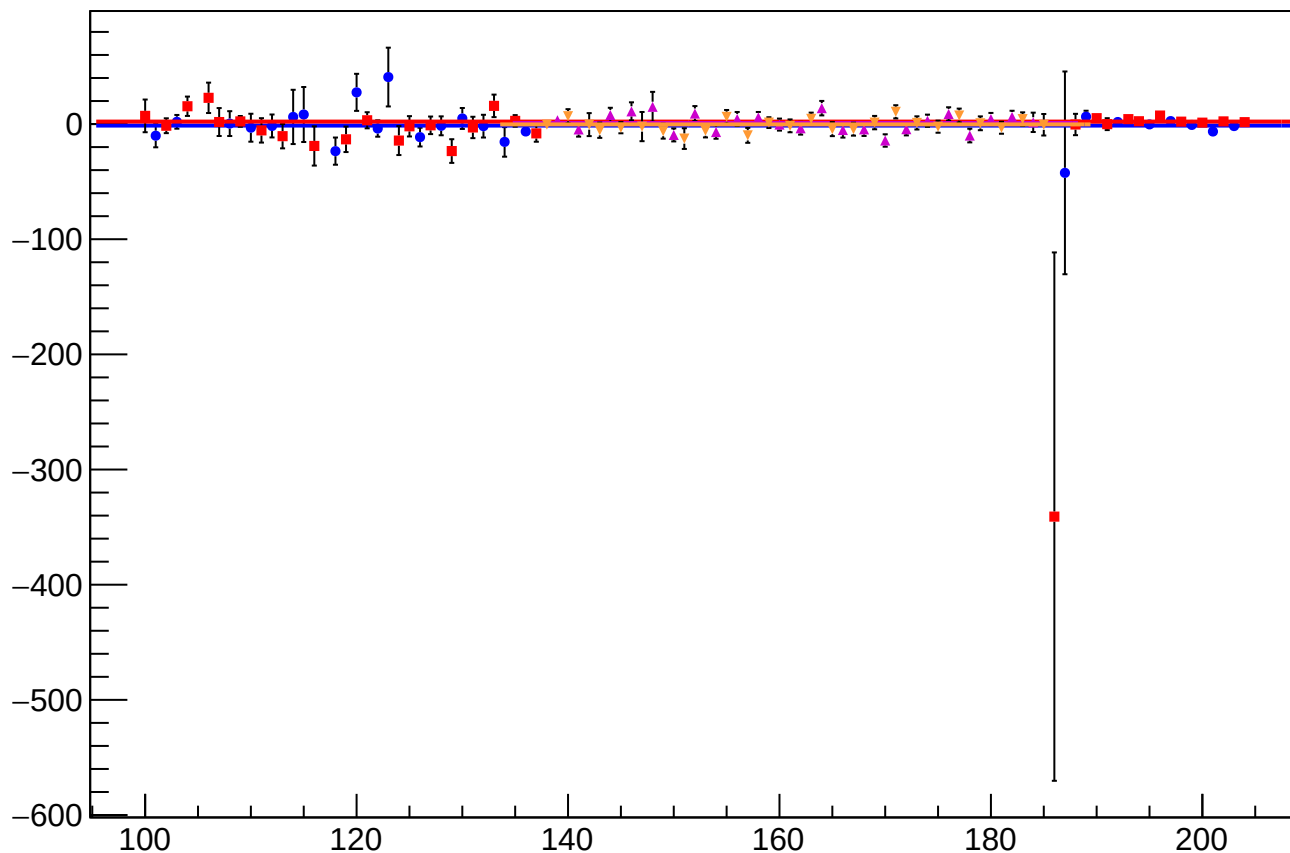
Right: 32868.523+/-4.646 χ^2/NDF : 2343746.8/54

In: 32586.617+/-4.338 χ^2/NDF : 2502019.6/47

Out: 32575.937+/-4.139 χ^2/NDF : 2794729.5/54

All: 32581.026+/-2.994 χ^2/NDF : 5296752.2/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.315 ± 1.056 χ^2/NDF : 23.4/24

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.141 ± 0.980 χ^2/NDF : 29.6/29

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

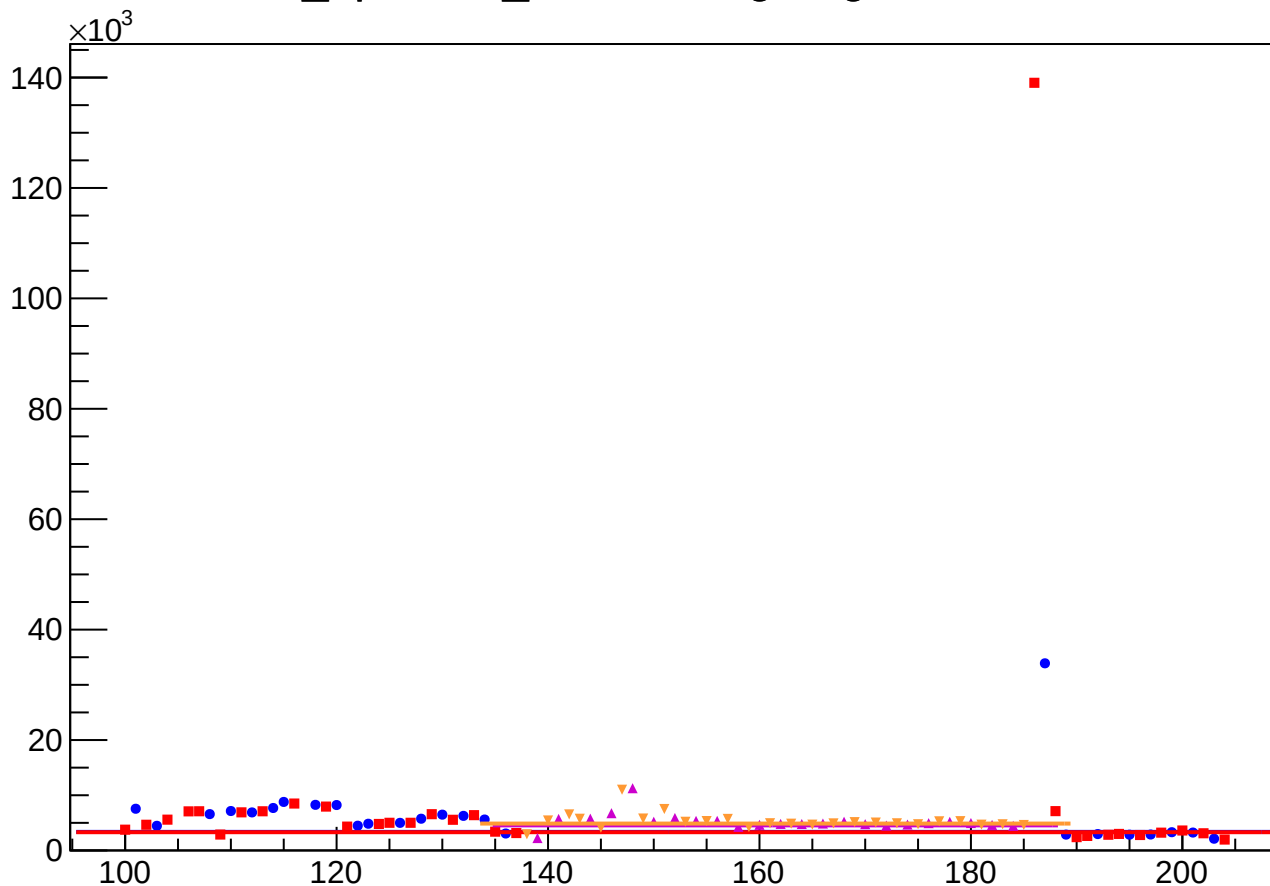
Right: 0.543 ± 0.718 χ^2/NDF : 58.8/54

In: -0.290 ± 0.776 χ^2/NDF : 61.6/47

Out: 1.132 ± 0.752 χ^2/NDF : 49.8/54

All: 0.443 ± 0.540 χ^2/NDF : 113.2/102

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3363.773 ± 0.747 $\chi^2/\text{NDF}: 3433993.4/24$

Left Out: 4868.567 ± 0.829 $\chi^2/\text{NDF}: 1511151.0/24$

Right Out: 3306.243 ± 0.693 $\chi^2/\text{NDF}: 4332840.0/29$

Left In: 4544.337 ± 0.808 $\chi^2/\text{NDF}: 2634314.4/22$

Left: 4702.320 ± 0.578 $\chi^2/\text{NDF}: 4223993.0/47$

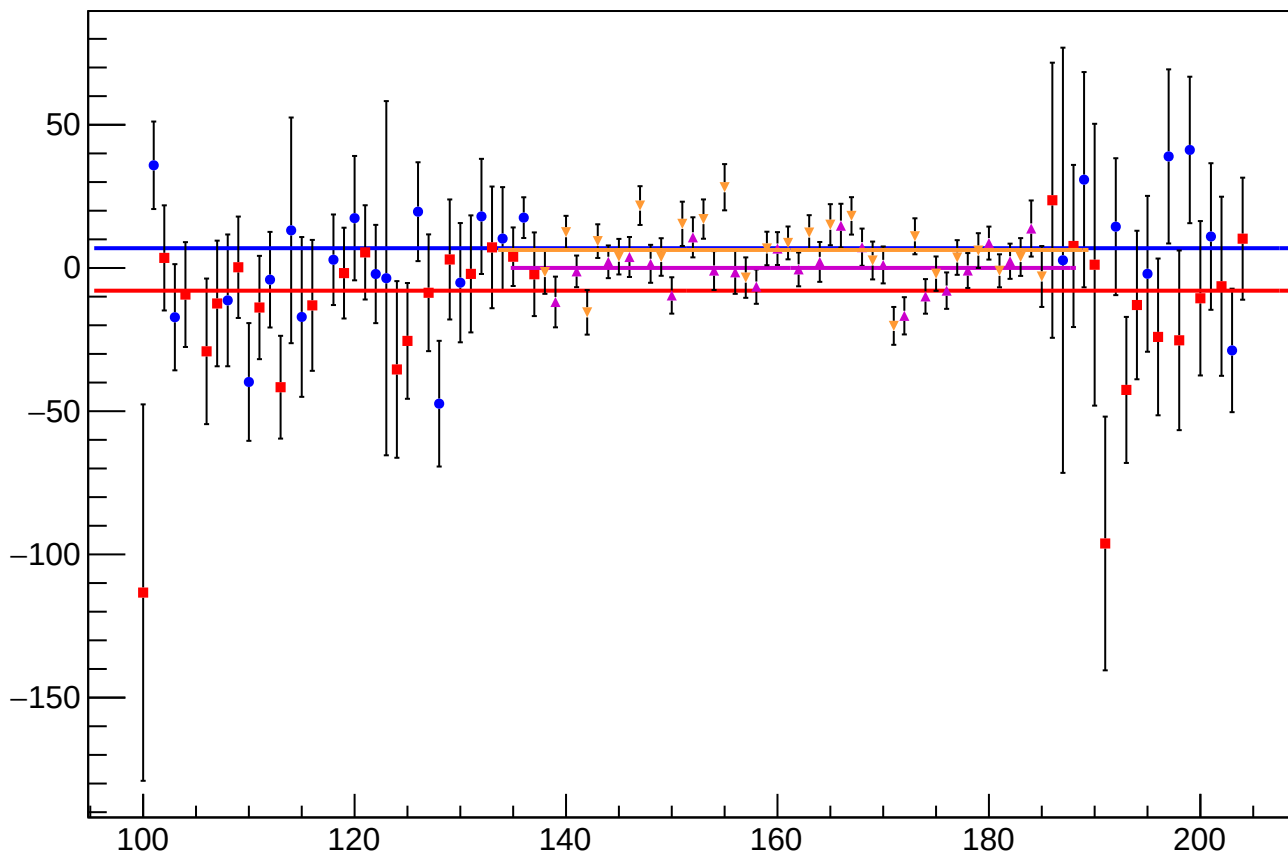
Right: 3332.846 ± 0.508 $\chi^2/\text{NDF}: 7770022.2/54$

In: 3908.032 ± 0.548 $\chi^2/\text{NDF}: 7219932.7/47$

Out: 3949.122 ± 0.531 $\chi^2/\text{NDF}: 7936702.1/54$

All: 3929.220 ± 0.382 $\chi^2/\text{NDF}: 15159530.1/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.913 ± 3.777 χ^2/NDF : 28.8/24

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

Right Out: -7.923 ± 3.823 χ^2/NDF : 20.3/29

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

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

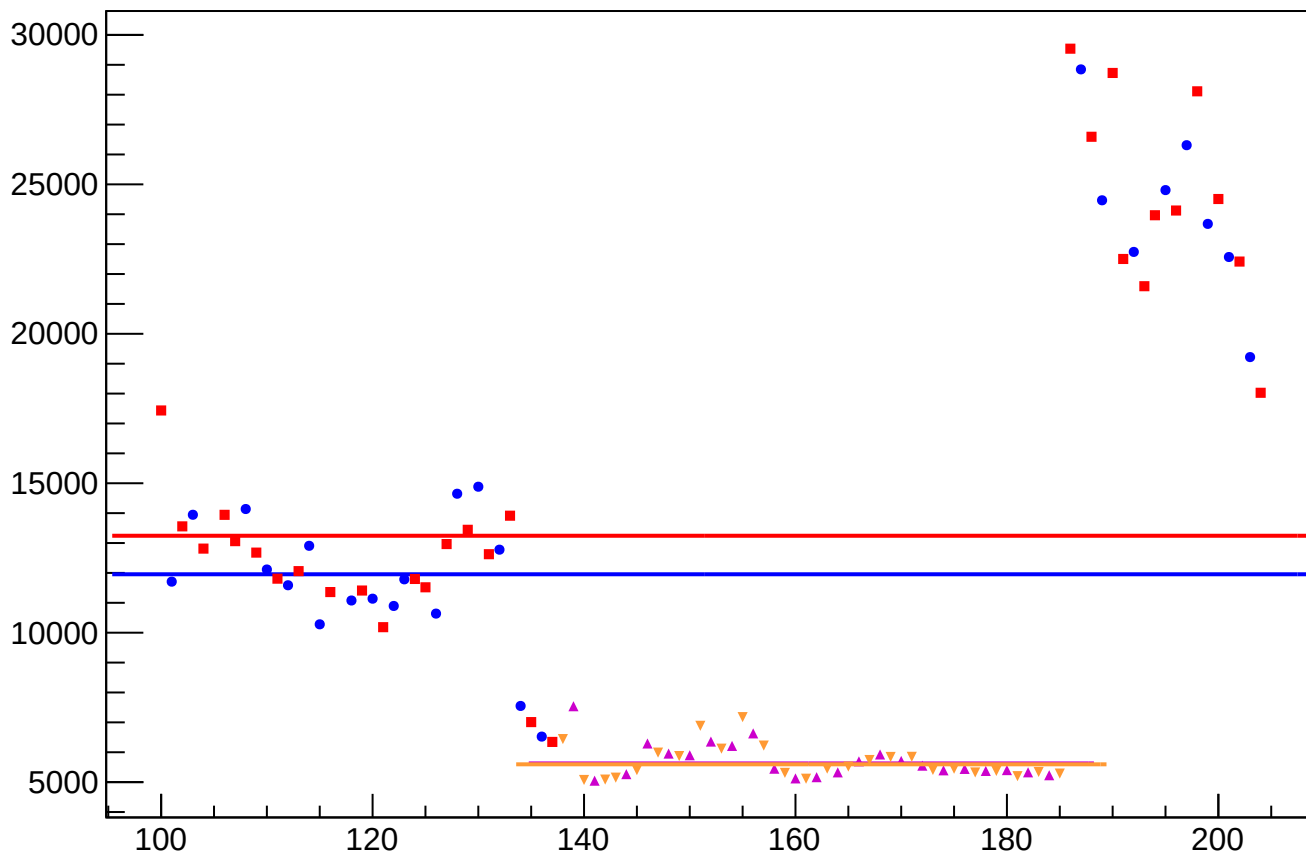
Right: -0.414 ± 2.687 χ^2/NDF : 56.7/54

In: 0.804 ± 1.274 χ^2/NDF : 61.6/47

Out: 4.801 ± 1.239 χ^2/NDF : 89.2/54

All: 2.858 ± 0.888 χ^2/NDF : 155.9/102

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11954.767 $\pm$ 2.671 χ^2 /NDF: 4055048.3/24

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13243.421 $\pm$ 2.703 χ^2 /NDF: 4262616.1/29

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

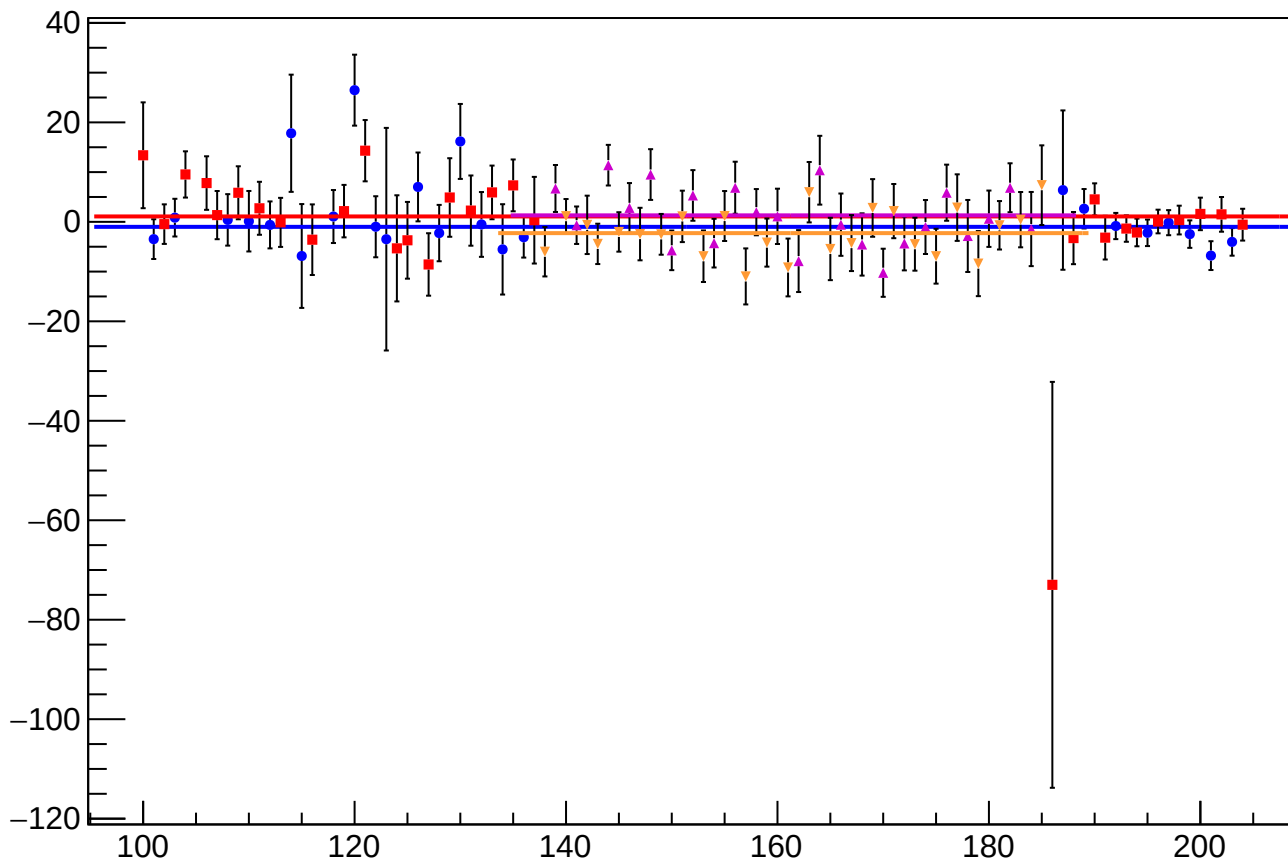
Right: 12591.209 $\pm$ 1.900 χ^2 /NDF: 8432660.4/54

In: 6347.050 $\pm$ 0.901 χ^2 /NDF: 9309499.8/47

Out: 6400.014 $\pm$ 0.876 χ^2 /NDF: 11706791.6/54

All: 6374.256 $\pm$ 0.628 χ^2 /NDF: 21018067.5/101

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.004 ± 0.846 χ^2/NDF : 32.5/24

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

Right Out: 1.087 ± 0.794 χ^2/NDF : 26.8/29

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

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

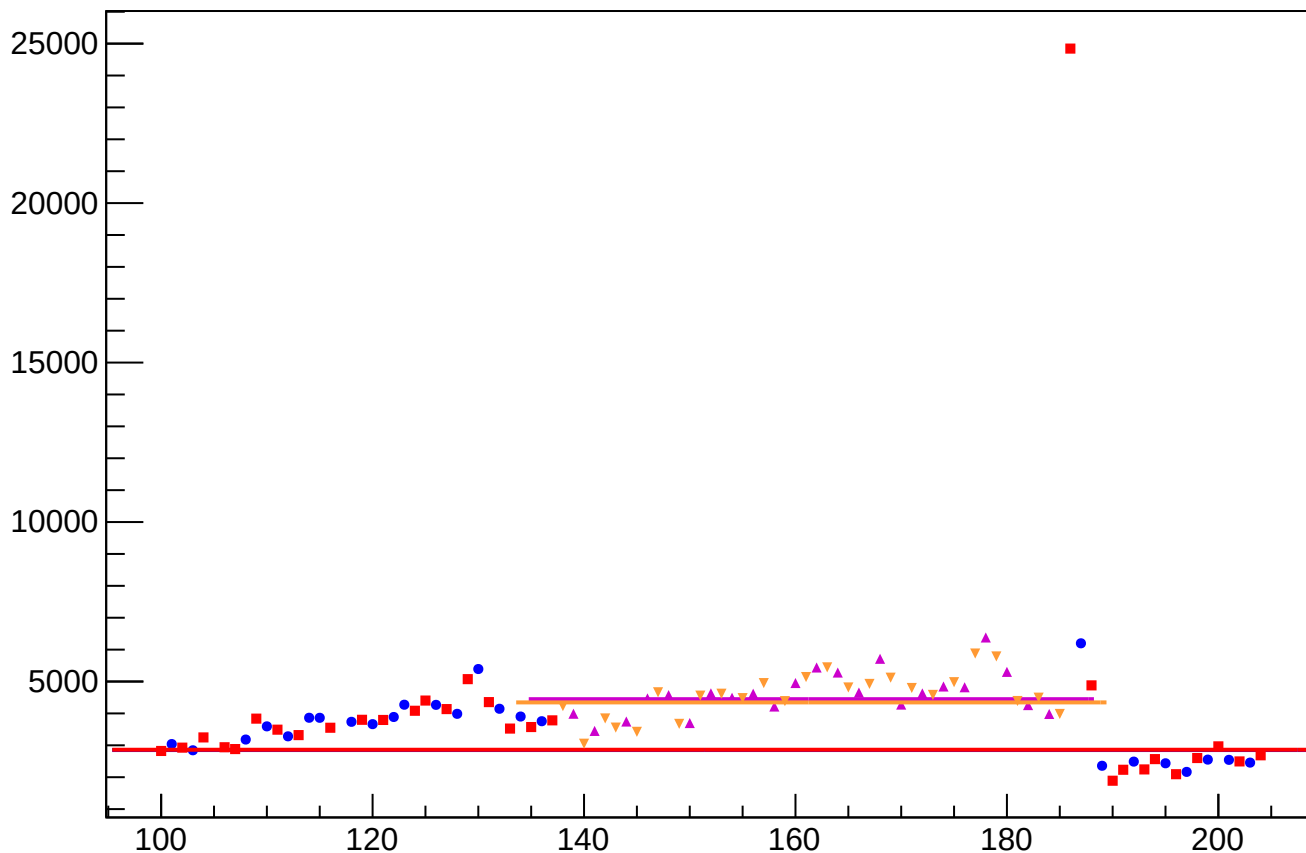
Right: 0.108 ± 0.579 χ^2/NDF : 62.6/54

In: -0.123 ± 0.665 χ^2/NDF : 66.2/47

Out: -0.164 ± 0.629 χ^2/NDF : 48.8/54

All: -0.145 ± 0.457 χ^2/NDF : 115.0/102

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2851.657+/-0.598

χ^2/NDF : 1271824.5/24

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right Out: 2860.756+/-0.561

χ^2/NDF : 2263754.2/29

Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

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

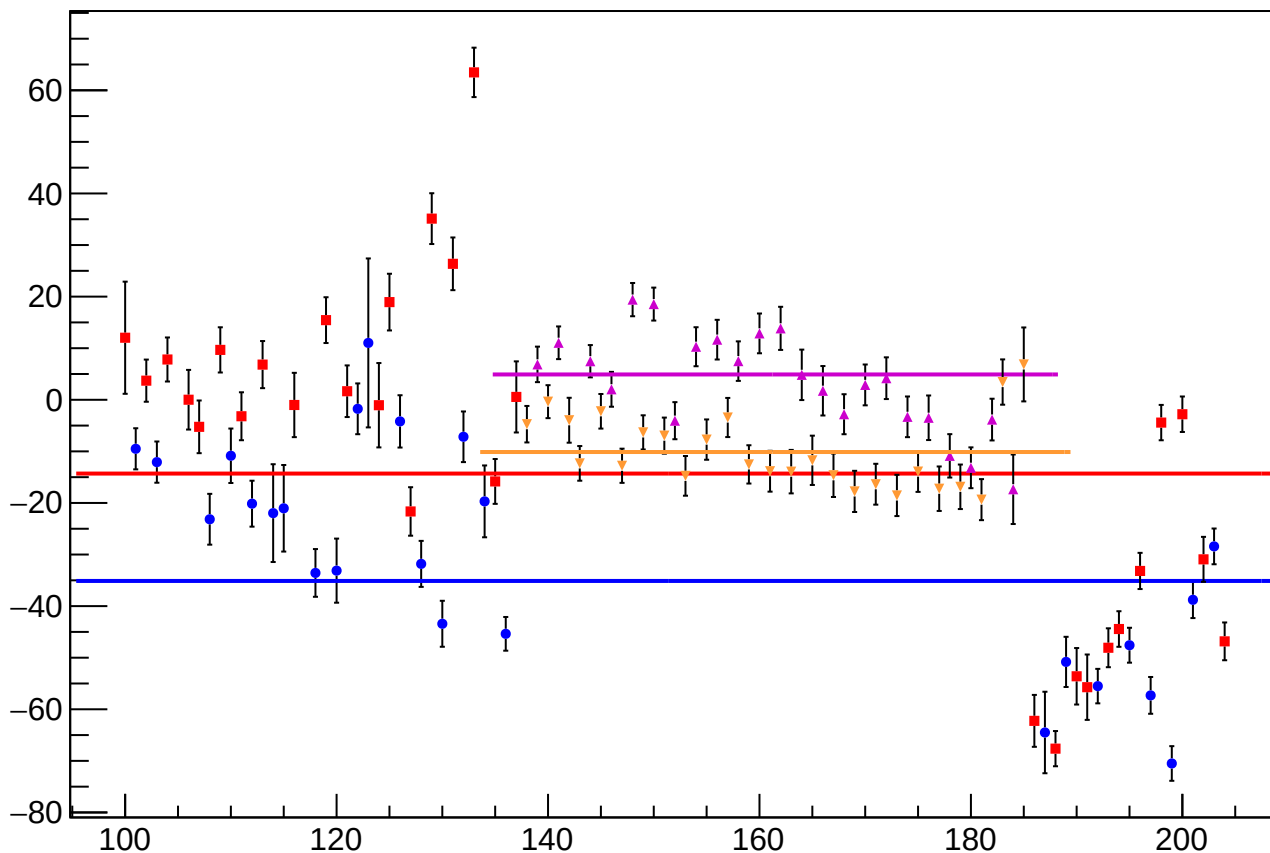
Right: 2856.498+/-0.409 χ^2/NDF : 3535701.6/54

In: 3460.382+/-0.471 χ^2/NDF : 4684655.6/47

Out: 3414.429+/-0.445 χ^2/NDF : 5872790.7/54

All: 3436.099+/-0.323 χ^2/NDF : 10562485.6/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.120 ± 0.892 $\chi^2/\text{NDF}: 489.8/24$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -14.303 ± 0.827 $\chi^2/\text{NDF}: 1379.6/29$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

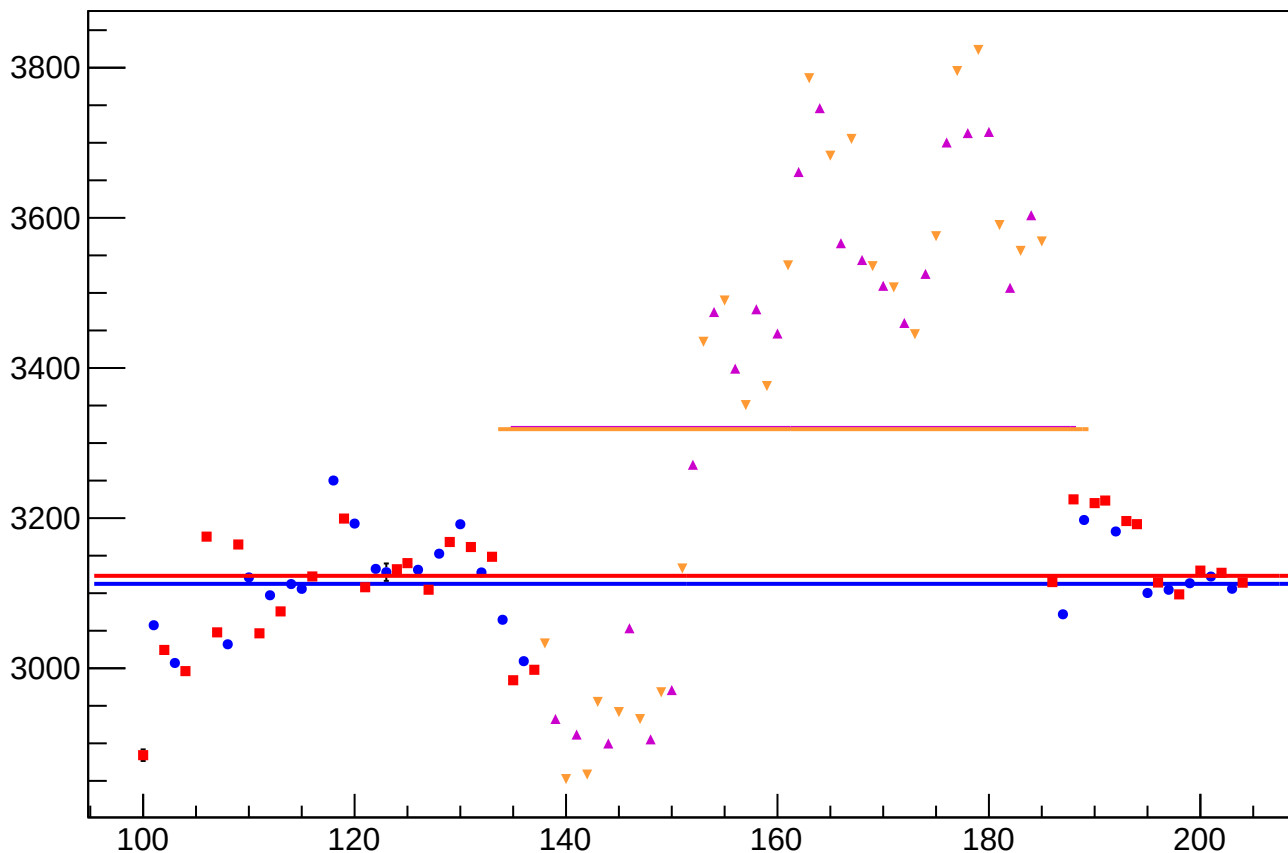
Right: -23.932 ± 0.607 $\chi^2/\text{NDF}: 2162.1/54$

In: -12.866 ± 0.594 $\chi^2/\text{NDF}: 1737.7/47$

Out: -12.078 ± 0.566 $\chi^2/\text{NDF}: 1461.1/54$

All: -12.453 ± 0.410 $\chi^2/\text{NDF}: 3199.7/102$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.457 $\pm$ 0.631 χ^2 /NDF: 8996.9/24

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

Right Out: 3123.155 $\pm$ 0.585 χ^2 /NDF: 13741.5/29

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

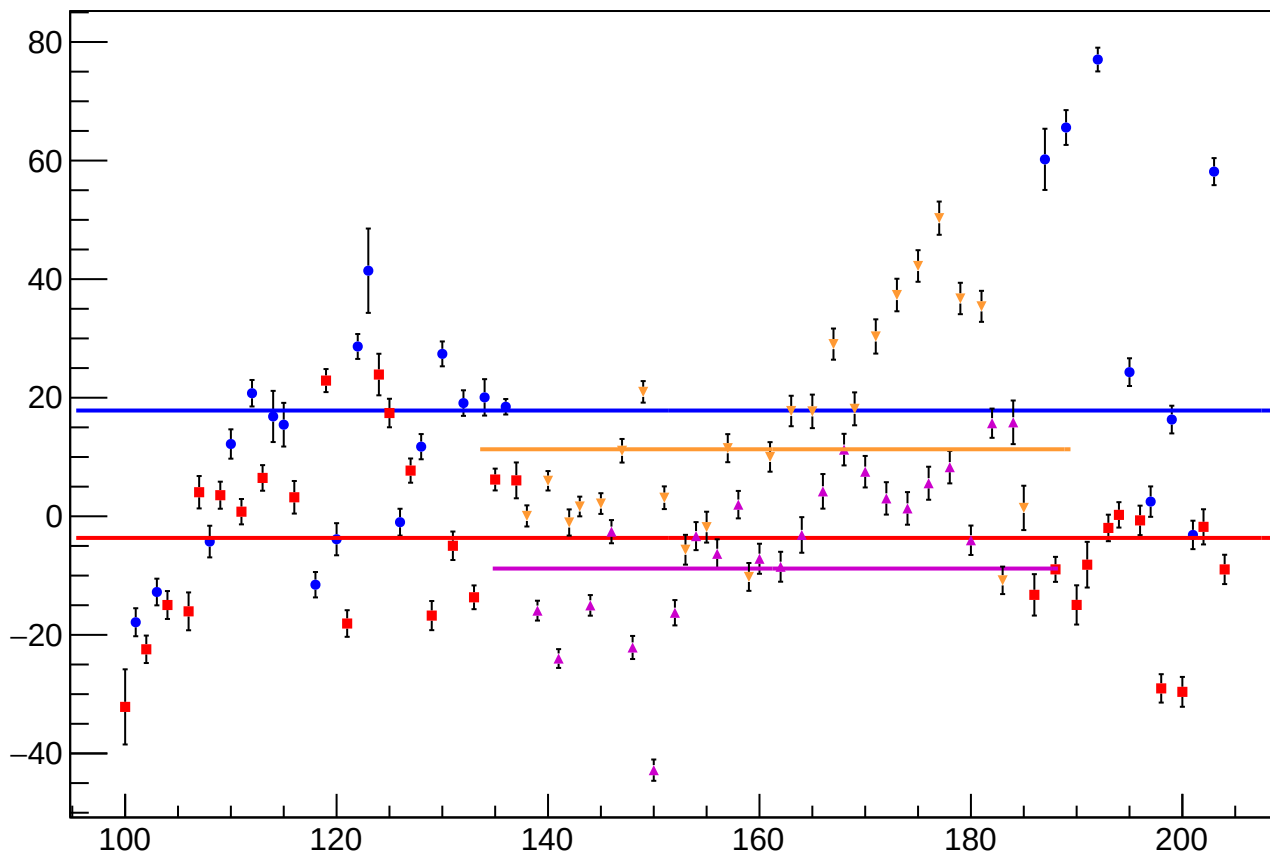
Right: 3118.206 $\pm$ 0.429 χ^2 /NDF: 22893.0/54

In: 3227.928 $\pm$ 0.420 χ^2 /NDF:356938.8/47

Out: 3227.158 $\pm$ 0.400 χ^2 /NDF:410787.1/54

All: 3227.524 $\pm$ 0.290 χ^2 /NDF: 767727.6/102

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.840 $\pm$ 0.474 χ^2/NDF : 2516.4/24

Left Out: 11.305 $\pm$ 0.454 χ^2/NDF :1144.3/24

Right Out: -3.648 $\pm$ 0.448 χ^2/NDF : 919.9/29

Left In: -8.815 $\pm$ 0.475 χ^2/NDF :942.2/22

Left: 1.711 $\pm$ 0.328 χ^2/NDF : 3023.6/47

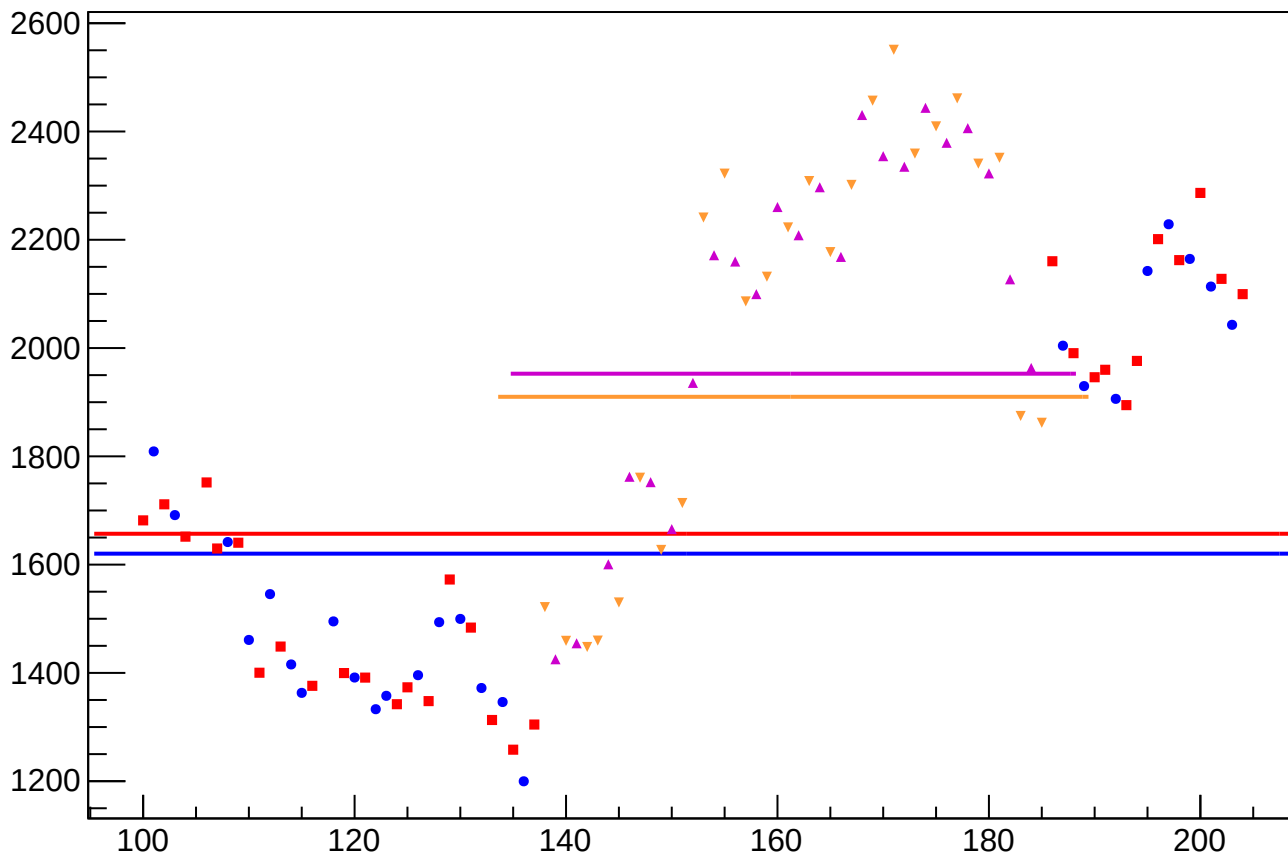
Right: 6.482 $\pm$ 0.326 χ^2/NDF : 4521.3/54

In: 4.543 $\pm$ 0.336 χ^2/NDF :5034.2/47

Out: 3.730 $\pm$ 0.319 χ^2/NDF :2614.1/54

All: 4.115 $\pm$ 0.231 χ^2/NDF : 7651.4/102

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1620.248 $\pm$ 0.335 χ^2/NDF : 931684.8/24

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF :1399467.7/24

Right Out: 1657.005 $\pm$ 0.317 χ^2/NDF : 1027532.2/29

Left In: 1952.637 $\pm$ 0.336 χ^2/NDF :1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2/NDF : 2473233.3/47

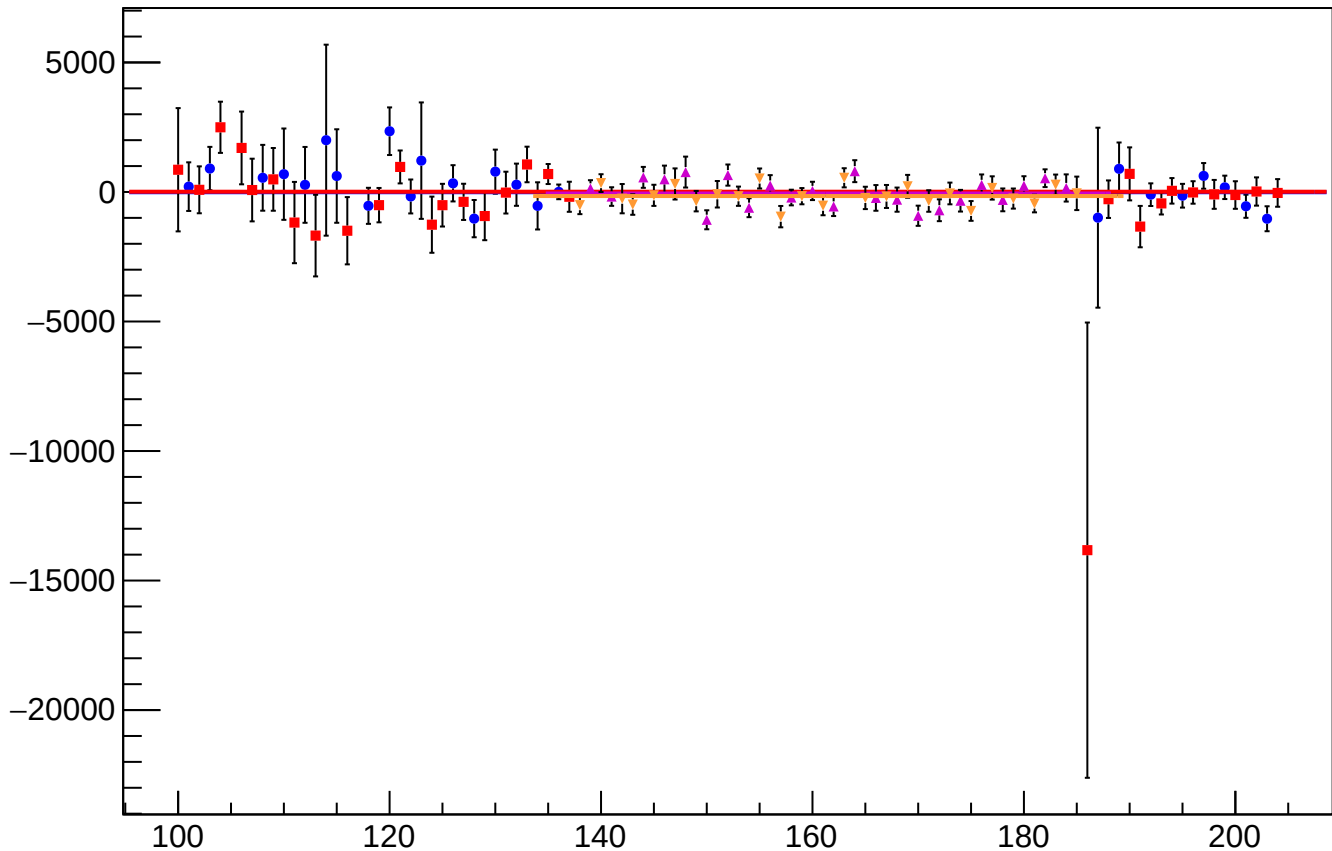
Right: 1639.678 $\pm$ 0.230 χ^2/NDF : 1965566.7/54

In: 1786.064 $\pm$ 0.237 χ^2/NDF :2487047.7/47

Out: 1781.815 $\pm$ 0.225 χ^2/NDF :2741751.3/54

All: 1783.829 $\pm$ 0.163 χ^2/NDF : 5228967.5/100

asym_sam1_mean vs Slug, Sign Corrected



Right In: -10.241 ± 129.084 χ^2/NDF : 21.9/24

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

Right Out: 10.105 ± 126.753 χ^2/NDF : 29.9/29

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

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

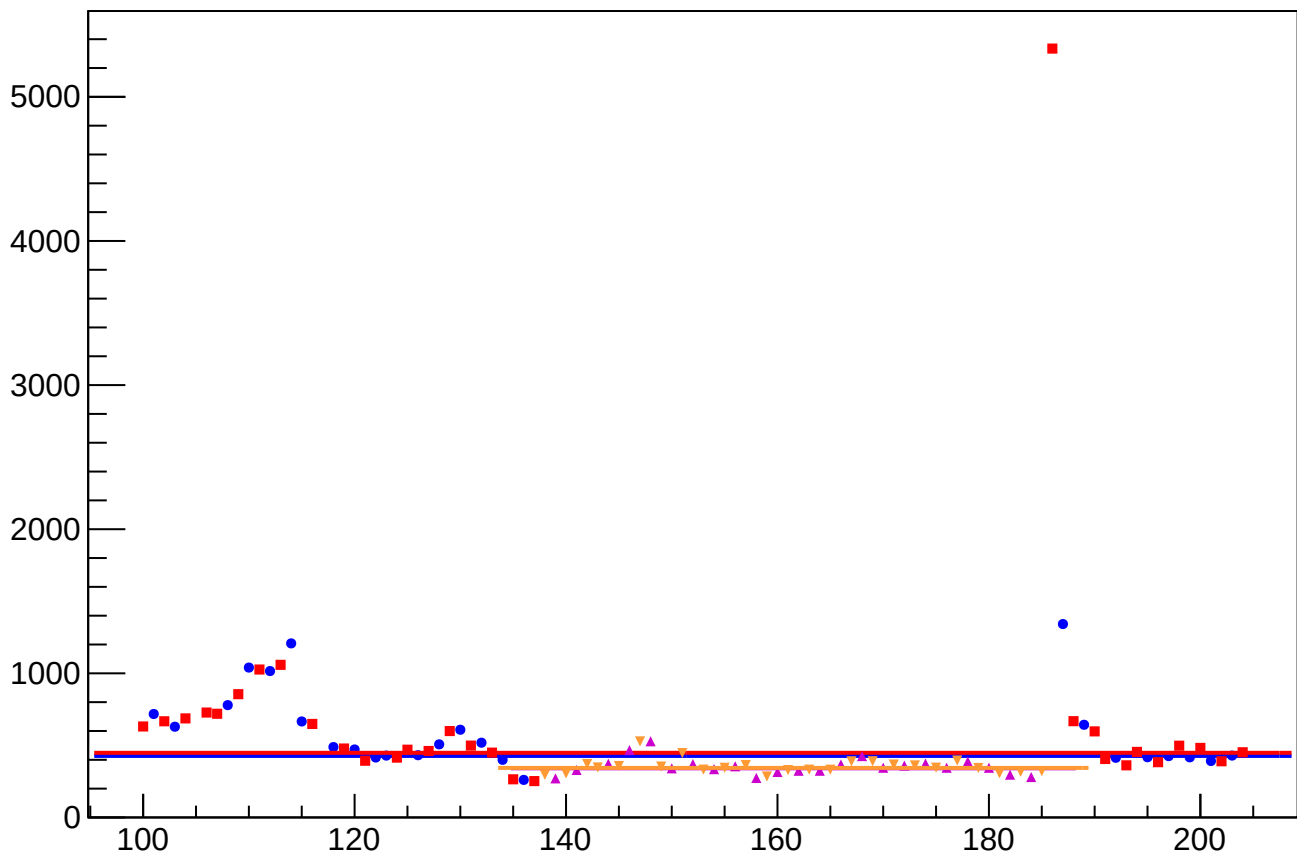
Right: 0.117 ± 90.440 χ^2/NDF : 51.8/54

In: -44.792 ± 69.566 χ^2/NDF : 60.6/47

Out: -108.892 ± 68.131 χ^2/NDF : 53.2/54

All: -77.509 ± 48.675 χ^2/NDF : 114.1/102

asym_sam1_rms vs Slug, Sign Corrected



Right In: 426.927+/-0.091 χ^2/NDF : 2252153.5/24

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

Right Out: 448.625+/-0.090 χ^2/NDF : 3058772.7/29

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

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

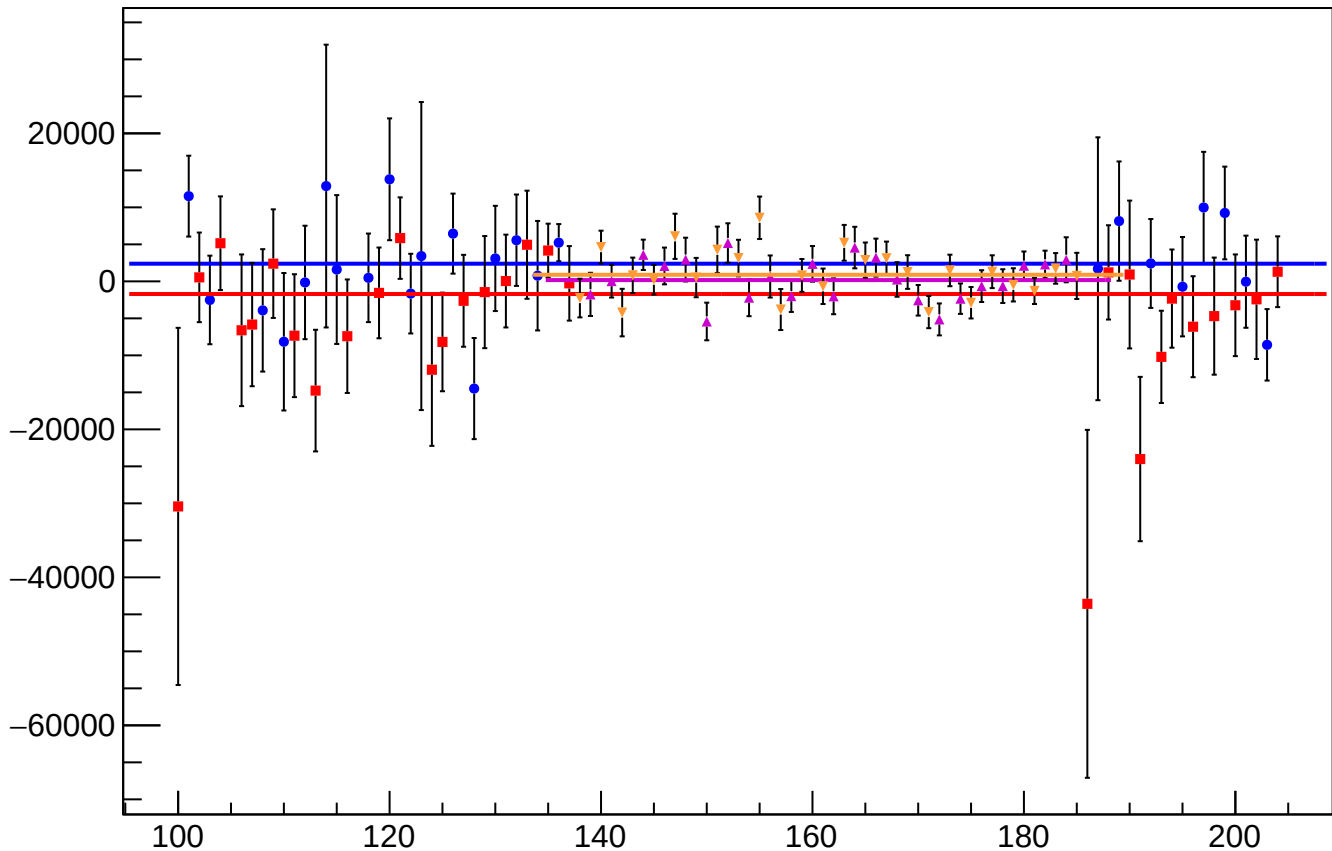
Right: 437.974+/-0.064 χ^2/NDF : 5339696.2/54

In: 365.868+/-0.049 χ^2/NDF : 3607485.8/47

Out: 374.091+/-0.048 χ^2/NDF : 4570753.4/54

All: 370.065+/-0.034 χ^2/NDF : 8192501.9/102

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2386.396 $\pm$ 1235.169 χ^2 /NDF: 24.9/24

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

Right Out: -1710.219 $\pm$ 1242.448 χ^2 /NDF: 24.9/29

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

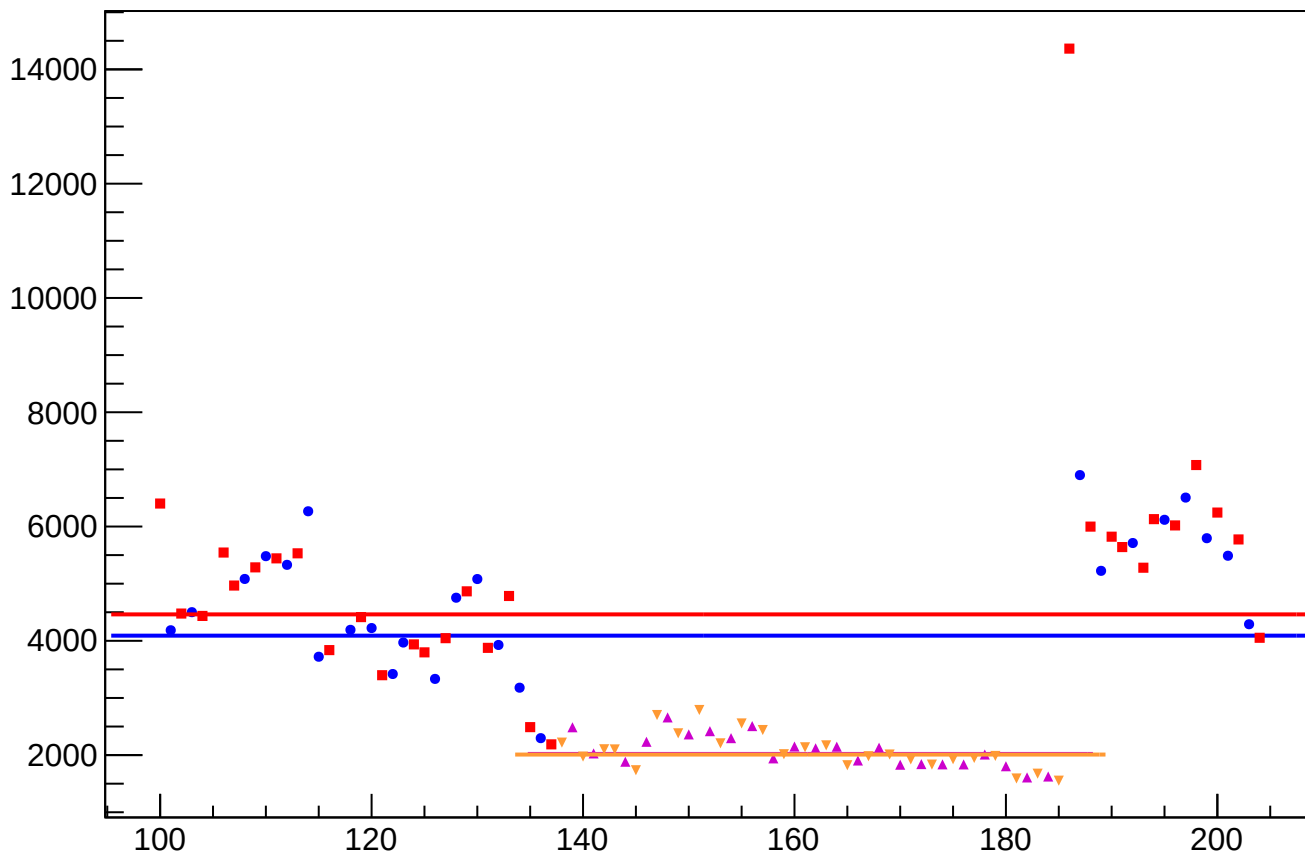
Right: 350.125 $\pm$ 875.959 χ^2 /NDF: 55.2/54

In: 471.394 $\pm$ 453.916 χ^2 /NDF:60.8/47

Out: 560.875 $\pm$ 442.264 χ^2 /NDF:66.6/54

All: 517.298 $\pm$ 316.767 χ^2 /NDF: 127.5/102

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4090.377 $\pm$ 0.873 χ^2 /NDF: 2221872.6/24

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

Right Out: 4462.617 $\pm$ 0.879 χ^2 /NDF: 2492884.4/29

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

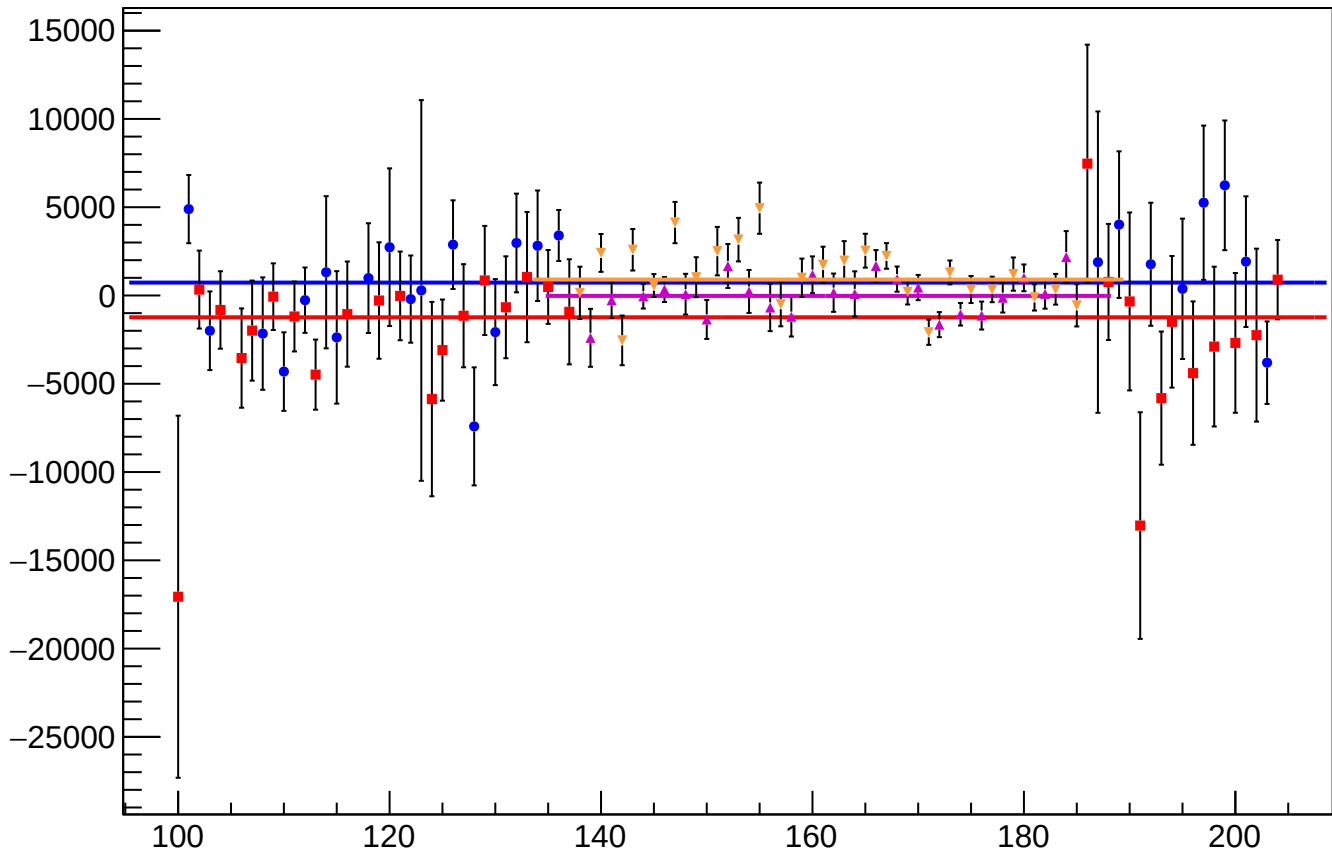
Right: 4275.404 $\pm$ 0.619 χ^2 /NDF: 4805045.6/54

In: 2299.922 $\pm$ 0.321 χ^2 /NDF: 7653982.7/47

Out: 2320.445 $\pm$ 0.313 χ^2 /NDF: 10010911.0/54

All: 2310.451 $\pm$ 0.224 χ^2 /NDF: 17666991.2/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 730.094 ± 560.745 χ^2/NDF : 33.4/24

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

Right Out: -1235.245 ± 536.712 χ^2/NDF : 18.5/29

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

Left: 444.940 ± 132.217 χ^2/NDF : 104.0/47

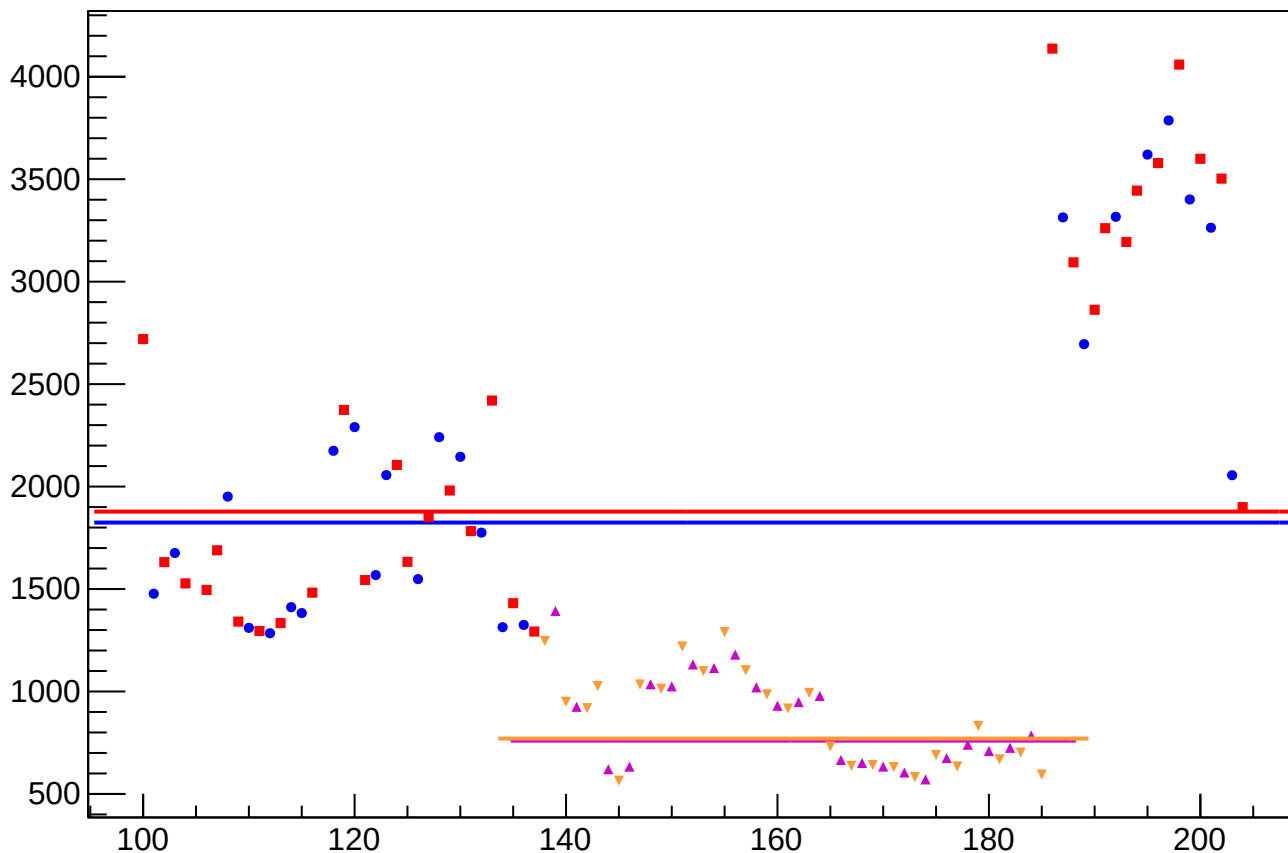
Right: -295.595 ± 387.731 χ^2/NDF : 58.3/54

In: 52.721 ± 178.365 χ^2/NDF : 63.2/47

Out: 673.250 ± 175.619 χ^2/NDF : 96.2/54

All: 367.799 ± 125.141 χ^2/NDF : 165.6/102

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1824.460+/-0.397 χ^2/NDF : 2857771.7/24

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1877.978+/-0.380 χ^2/NDF : 3649379.5/29

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

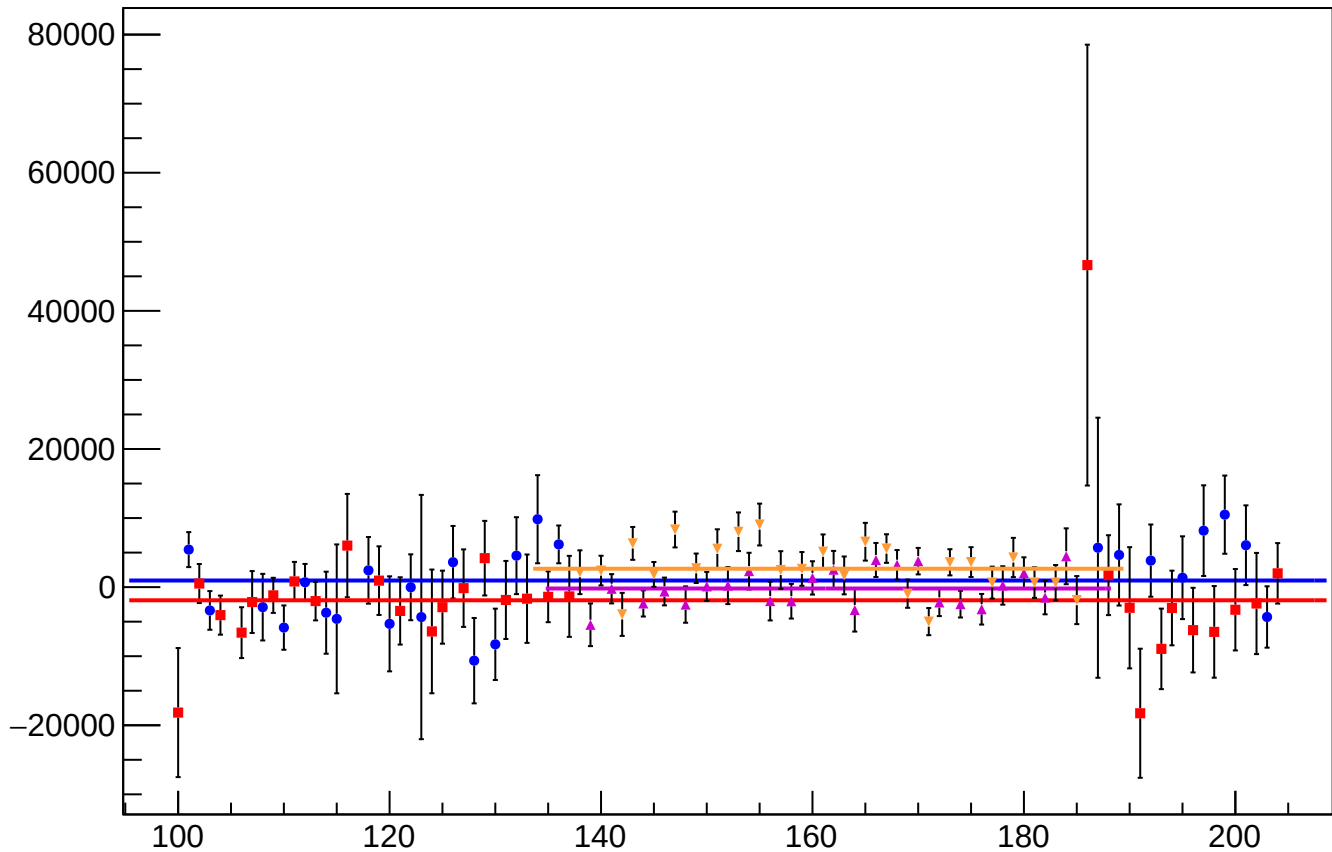
Right: 1852.391+/-0.274 χ^2/NDF : 6516658.9/54

In: 868.017+/-0.126 χ^2/NDF : 11318089.5/47

Out: 888.915+/-0.124 χ^2/NDF : 13543407.4/54

All: 878.628+/-0.088 χ^2/NDF : 24875437.7/10

asym_sam4_mean vs Slug, Sign Corrected



Right In: 958.819 ± 903.547 χ^2/NDF : 32.5/24

Left Out: 2665.587 ± 479.773 χ^2/NDF : 49.2/24

Right Out: -1904.206 ± 834.881 χ^2/NDF : 19.3/29

Left In: -199.371 ± 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 ± 343.520 χ^2/NDF : 92.4/47

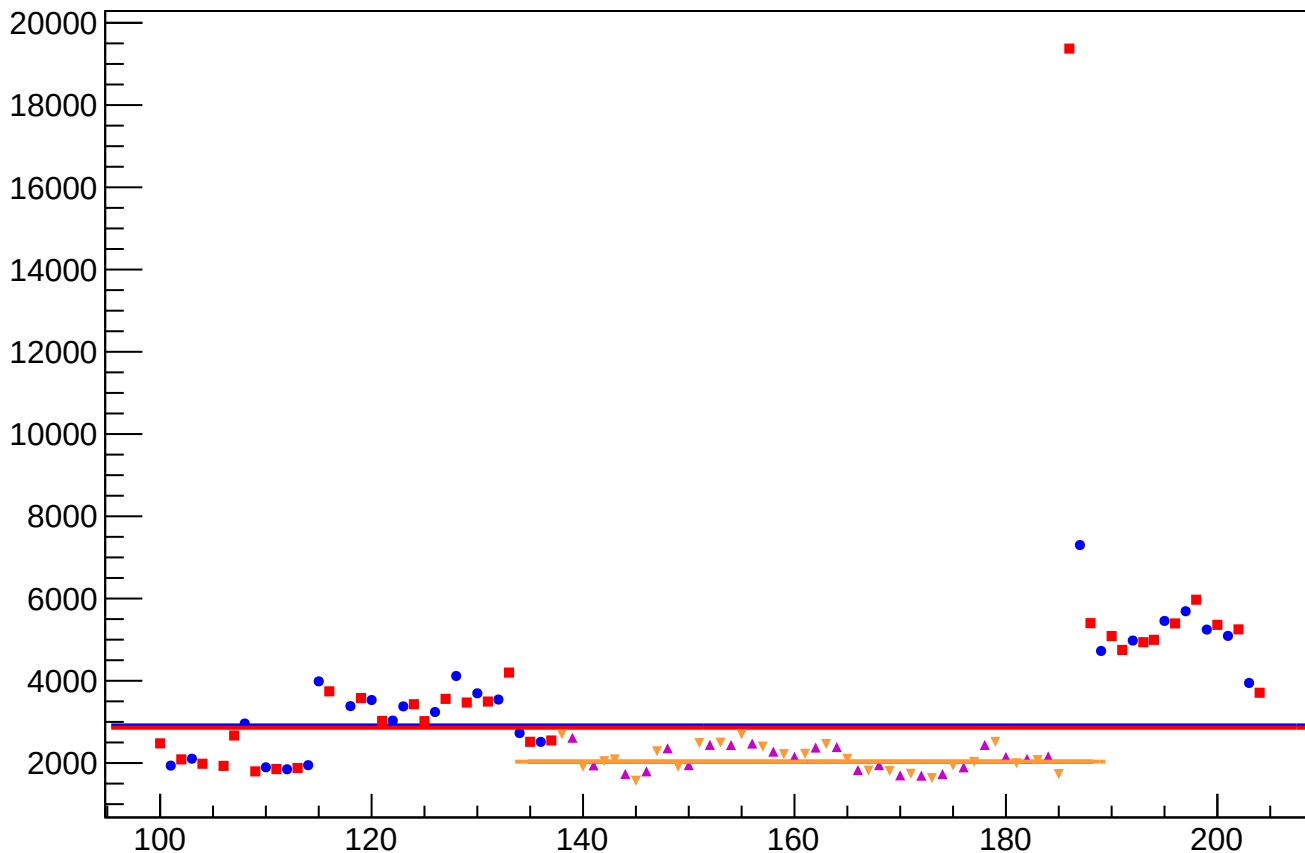
Right: -585.604 ± 613.190 χ^2/NDF : 57.2/54

In: 65.569 ± 432.150 χ^2/NDF : 59.5/47

Out: 1531.123 ± 415.979 χ^2/NDF : 91.1/54

All: 826.278 ± 299.695 χ^2/NDF : 156.6/102

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2914.659+/-0.639 χ^2/NDF : 3289657.3/24

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2857.996+/-0.590 χ^2/NDF : 4729764.6/29

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

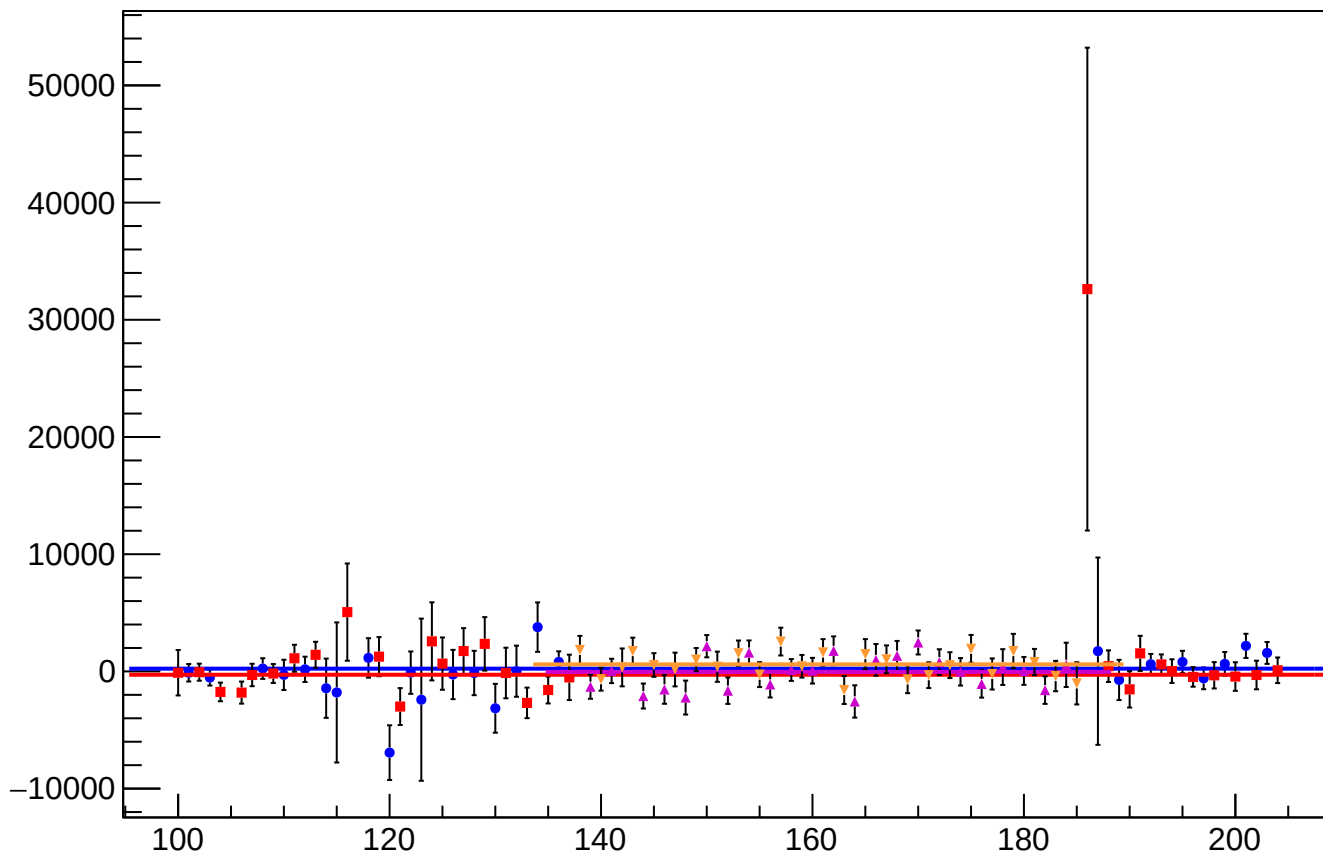
Right: 2884.093+/-0.434 χ^2/NDF : 8023664.8/54

In: 2234.416+/-0.306 χ^2/NDF : 5412237.8/47

Out: 2238.061+/-0.294 χ^2/NDF : 7020730.7/54

All: 2236.308+/-0.212 χ^2/NDF : 12433042.3/101

asym_sam5_mean vs Slug, Sign Corrected



Right In: 233.755 ± 241.503 χ^2/NDF : 25.6/24

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

Right Out: -285.140 ± 220.001 χ^2/NDF : 29.8/29

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

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

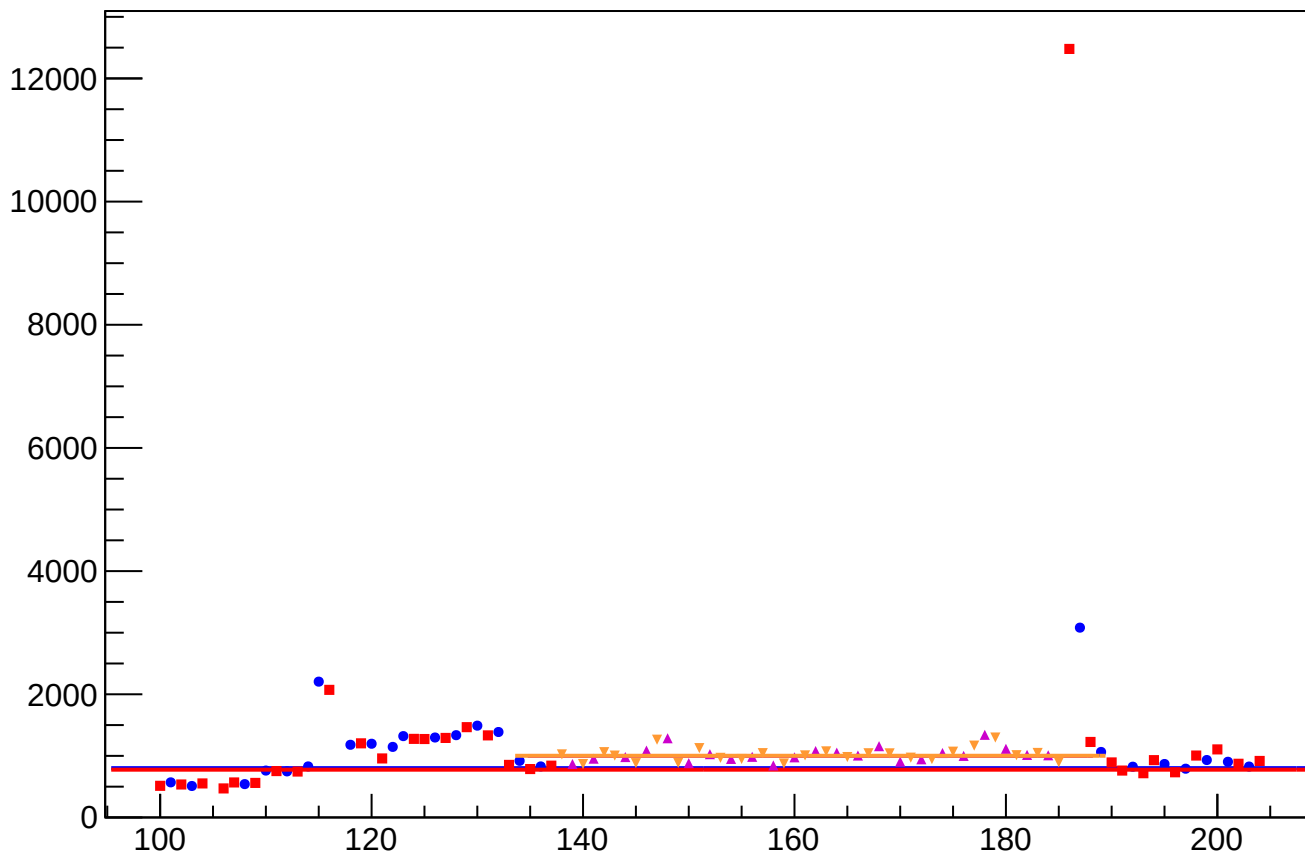
Right: -49.816 ± 162.635 χ^2/NDF : 57.9/54

In: 95.701 ± 170.522 χ^2/NDF : 62.6/47

Out: 128.345 ± 160.595 χ^2/NDF : 55.9/54

All: 113.001 ± 116.910 χ^2/NDF : 118.5/102

asym_sam5_rms vs Slug, Sign Corrected



Right In: 800.864 $\pm$ 0.171 χ^2 /NDF: 2010223.0/24

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 775.698 $\pm$ 0.156 χ^2 /NDF: 3042052.7/29

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

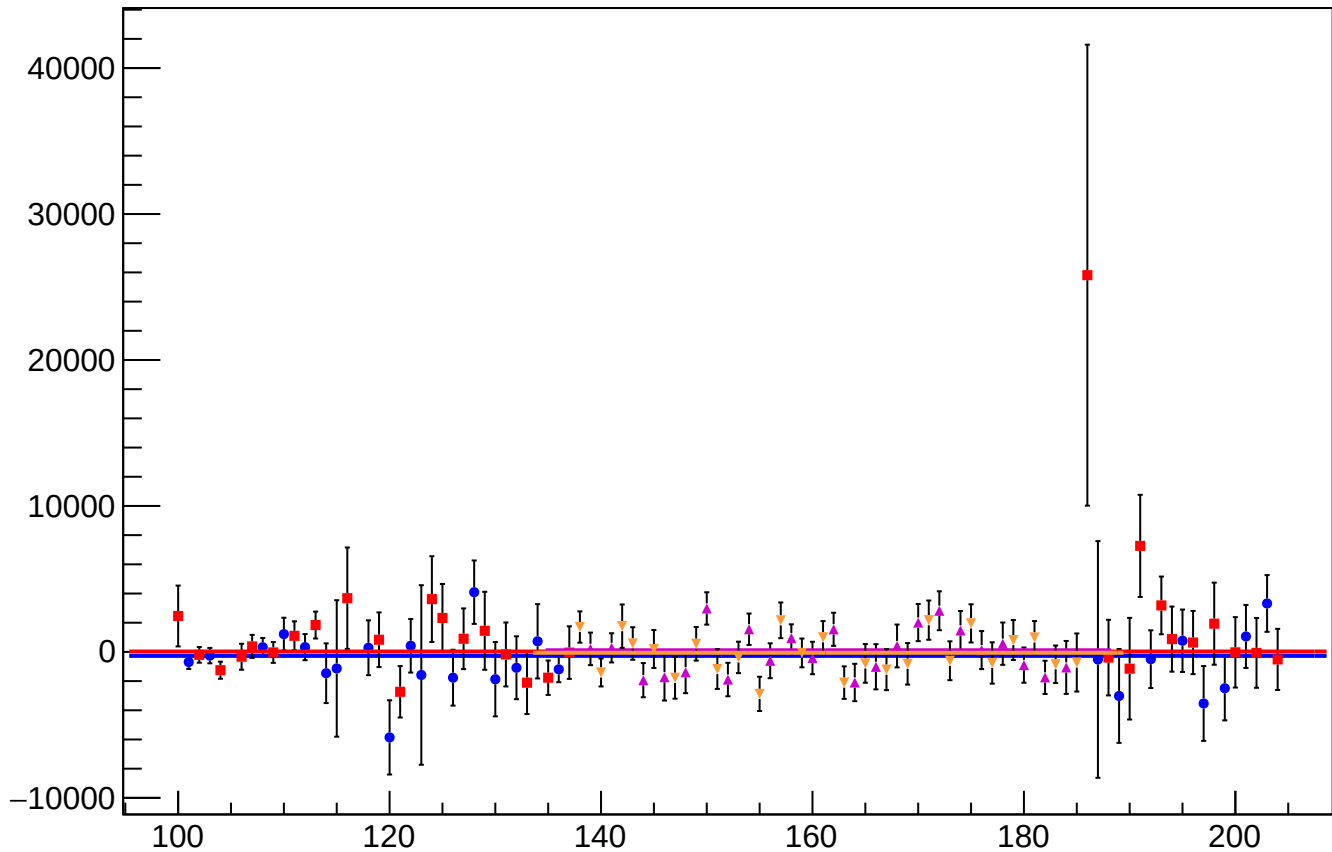
Right: 787.111 $\pm$ 0.115 χ^2 /NDF: 5064144.6/54

In: 899.741 $\pm$ 0.121 χ^2 /NDF: 3083466.0/47

Out: 881.165 $\pm$ 0.114 χ^2 /NDF: 4396305.2/54

All: 889.897 $\pm$ 0.083 χ^2 /NDF: 7492349.4/102

asym_sam6_mean vs Slug, Sign Corrected



Right In: -271.731 ± 240.163 χ^2/NDF : 23.2/24

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

Right Out: 27.612 ± 234.497 χ^2/NDF : 32.1/29

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

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

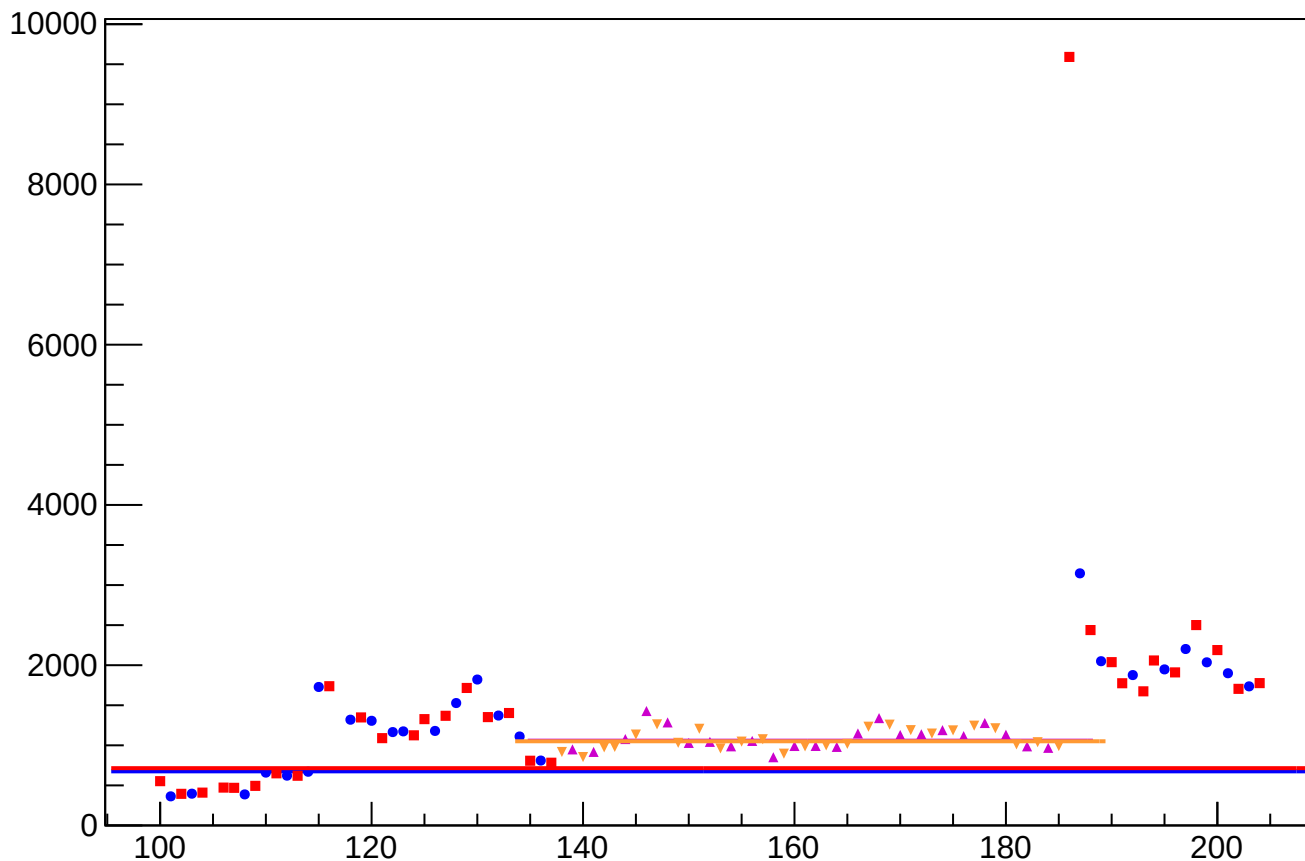
Right: -118.487 ± 167.782 χ^2/NDF : 56.1/54

In: -91.473 ± 174.963 χ^2/NDF : 59.3/47

Out: -13.927 ± 169.900 χ^2/NDF : 63.2/54

All: -51.562 ± 121.888 χ^2/NDF : 122.5/102

asym_sam6_rms vs Slug, Sign Corrected



Right In: 675.266+/-0.170 χ^2/NDF : 8336219.7/24

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

Right Out: 714.916+/-0.166 χ^2/NDF : 9585108.6/29

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

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

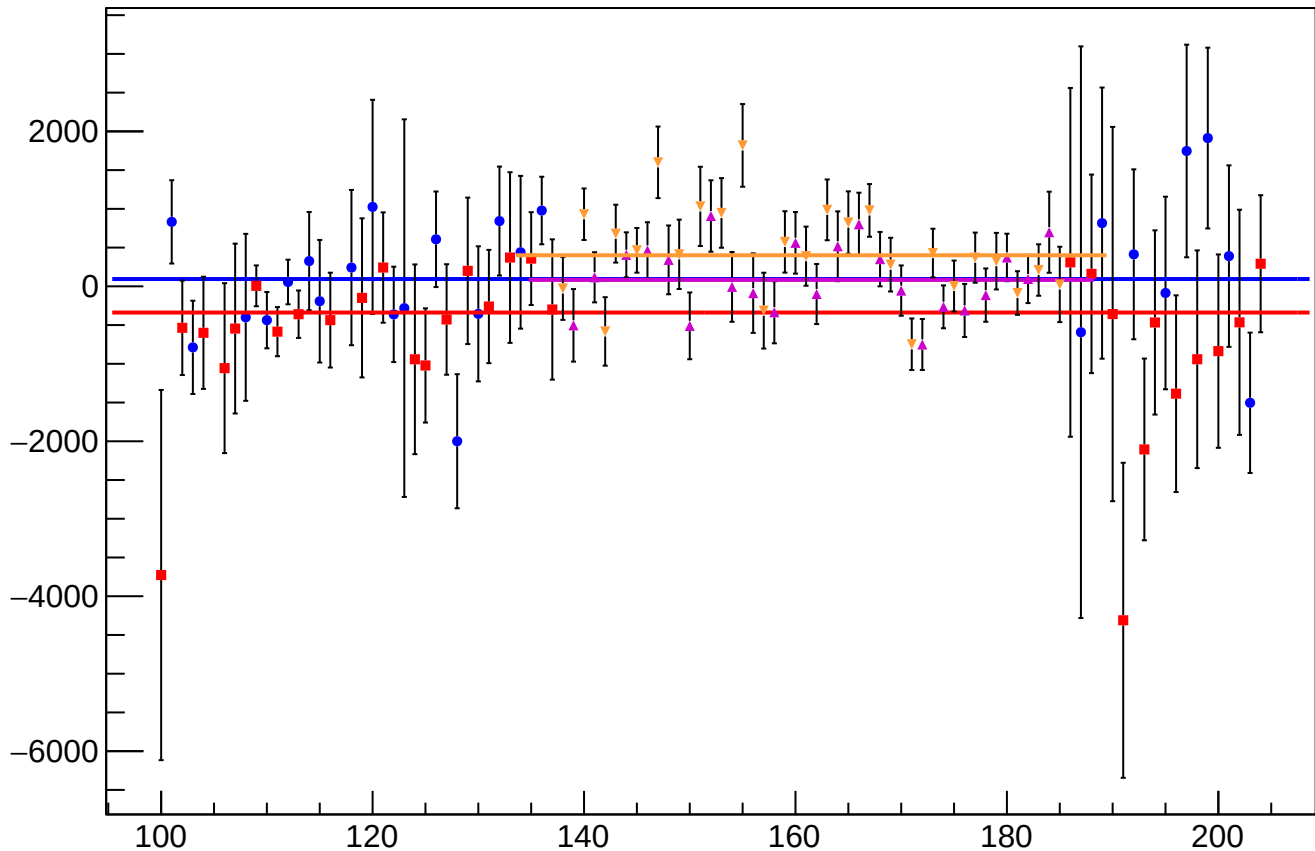
Right: 695.564+/-0.119 χ^2/NDF : 17949236.3/54

In: 854.915+/-0.124 χ^2/NDF : 11249584.6/47

Out: 874.408+/-0.120 χ^2/NDF : 12015797.1/54

All: 864.947+/-0.086 χ^2/NDF : 23278158.7/10

asym_sam7_mean vs Slug, Sign Corrected



Right In: 94.162+/-136.322 χ^2/NDF : 27.3/24

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -338.272+/-123.545 χ^2/NDF : 16.8/29

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

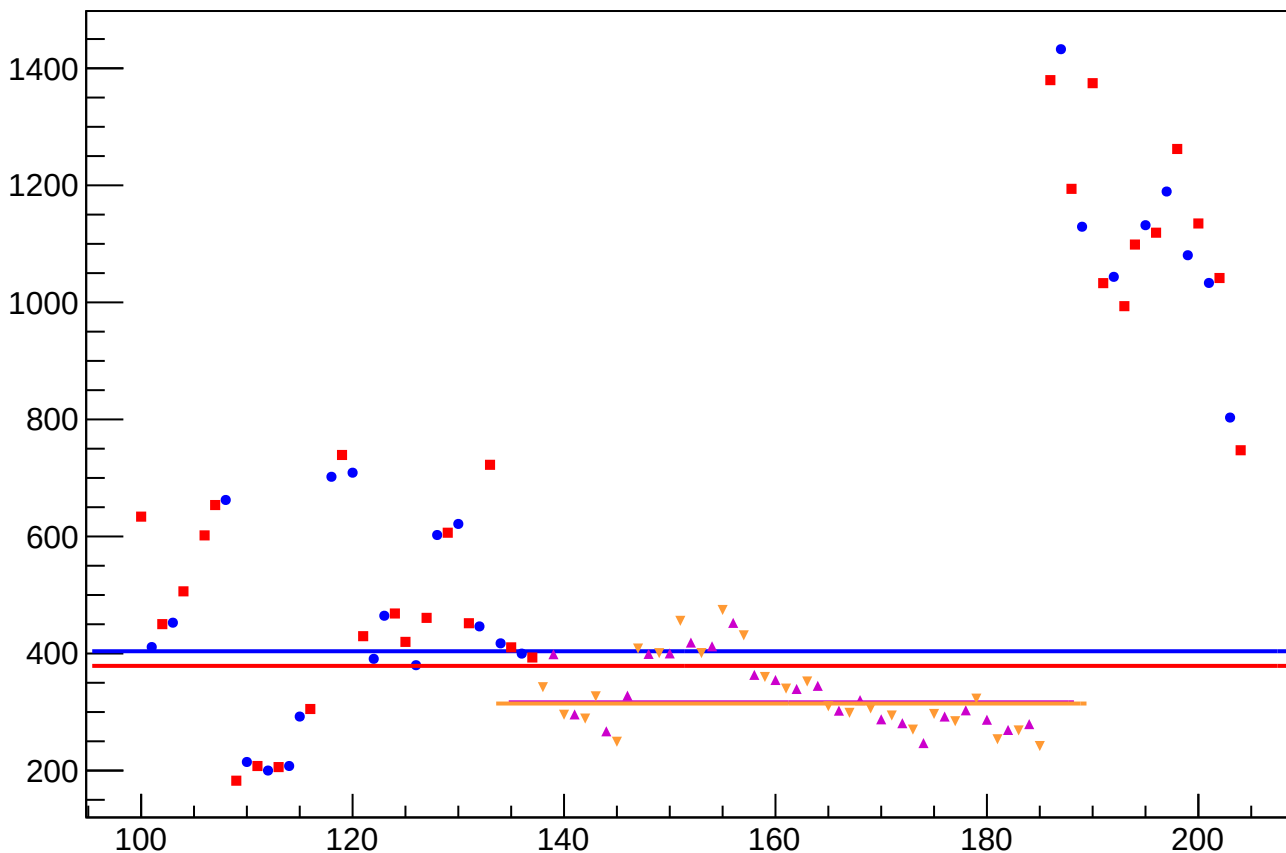
Right: -143.264+/-91.544 χ^2/NDF : 49.6/54

In: 85.611+/-66.981 χ^2/NDF : 56.2/47

Out: 203.674+/-63.827 χ^2/NDF : 95.2/54

All: 147.487+/-46.207 χ^2/NDF : 153.0/102

asym_sam7_rms vs Slug, Sign Corrected



Right In: 403.884 $\pm$ 0.096 χ^2 /NDF: 6581619.4/24

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 378.866 $\pm$ 0.087 χ^2 /NDF: 9316299.3/29

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

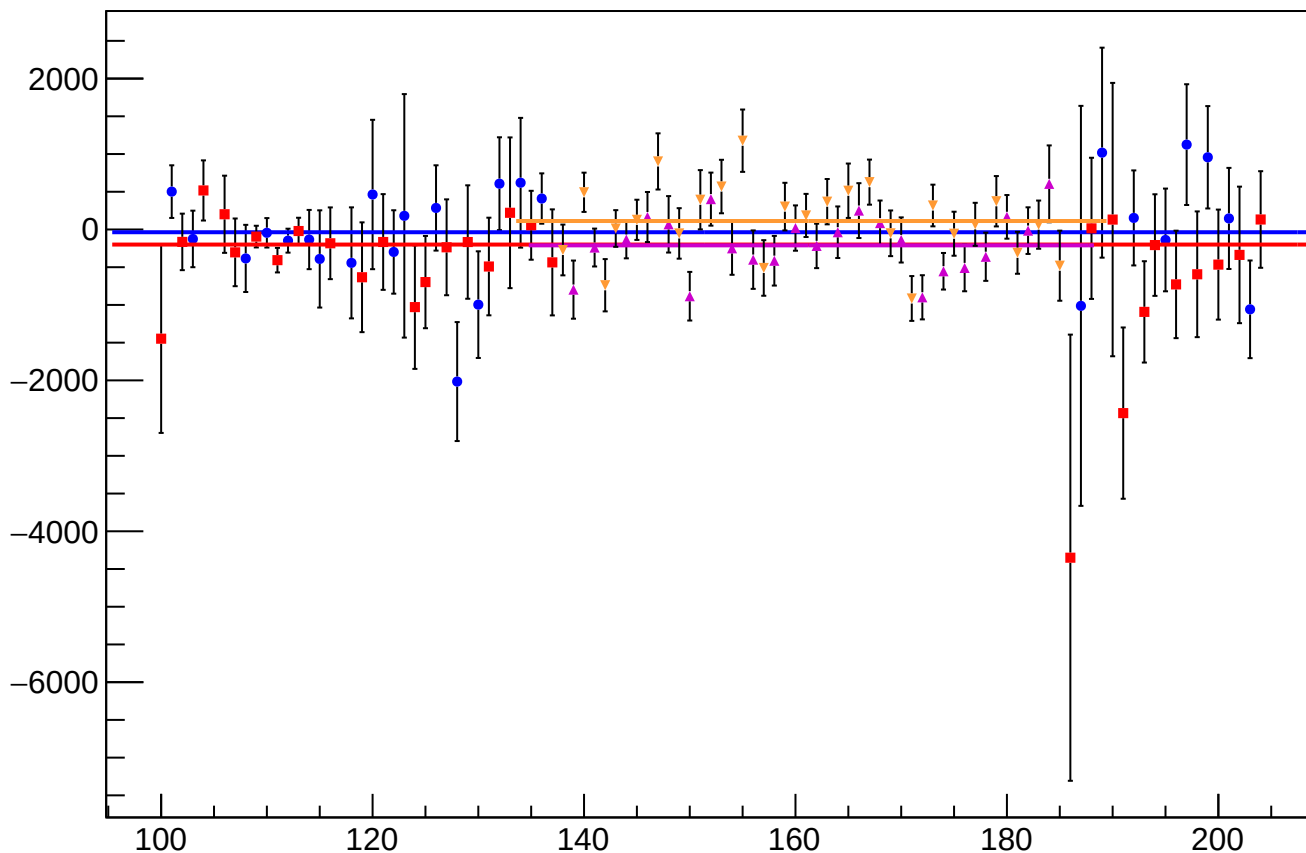
Right: 390.148 $\pm$ 0.065 χ^2 /NDF: 15934903.0/54

In: 337.708 $\pm$ 0.047 χ^2 /NDF: 8123807.2/47

Out: 331.708 $\pm$ 0.045 χ^2 /NDF: 10826247.3/54

All: 334.563 $\pm$ 0.033 χ^2 /NDF: 18958464.5/100

asym_sam8_mean vs Slug, Sign Corrected



Right In: -36.442 ± 85.983 χ^2/NDF : 24.3/24

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -199.844 ± 73.617 χ^2/NDF : 19.9/29

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

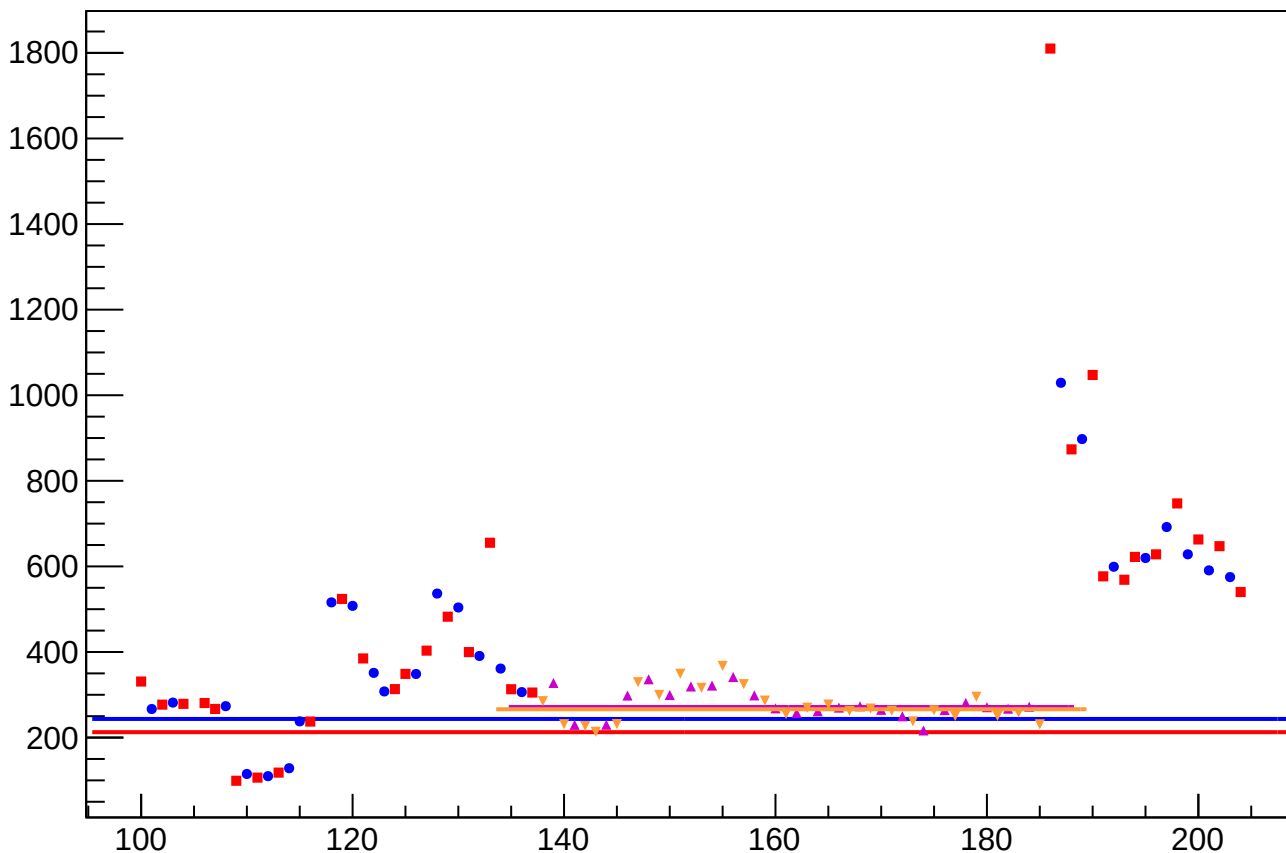
Right: -130.729 ± 55.921 χ^2/NDF : 46.2/54

In: -146.542 ± 52.109 χ^2/NDF : 56.0/47

Out: -18.829 ± 47.708 χ^2/NDF : 79.4/54

All: -77.066 ± 35.188 χ^2/NDF : 138.7/102

asym_sam8_rms vs Slug, Sign Corrected



Right In: 243.541 $\pm$ 0.061 χ^2 /NDF: 8035679.4/24

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 212.627 $\pm$ 0.052 χ^2 /NDF: 11419969.6/29

Left In: 271.415 $\pm$ 0.046 χ^2 /NDF: 521877.7/22

Left: 268.695 $\pm$ 0.032 χ^2 /NDF: 1178109.8/47

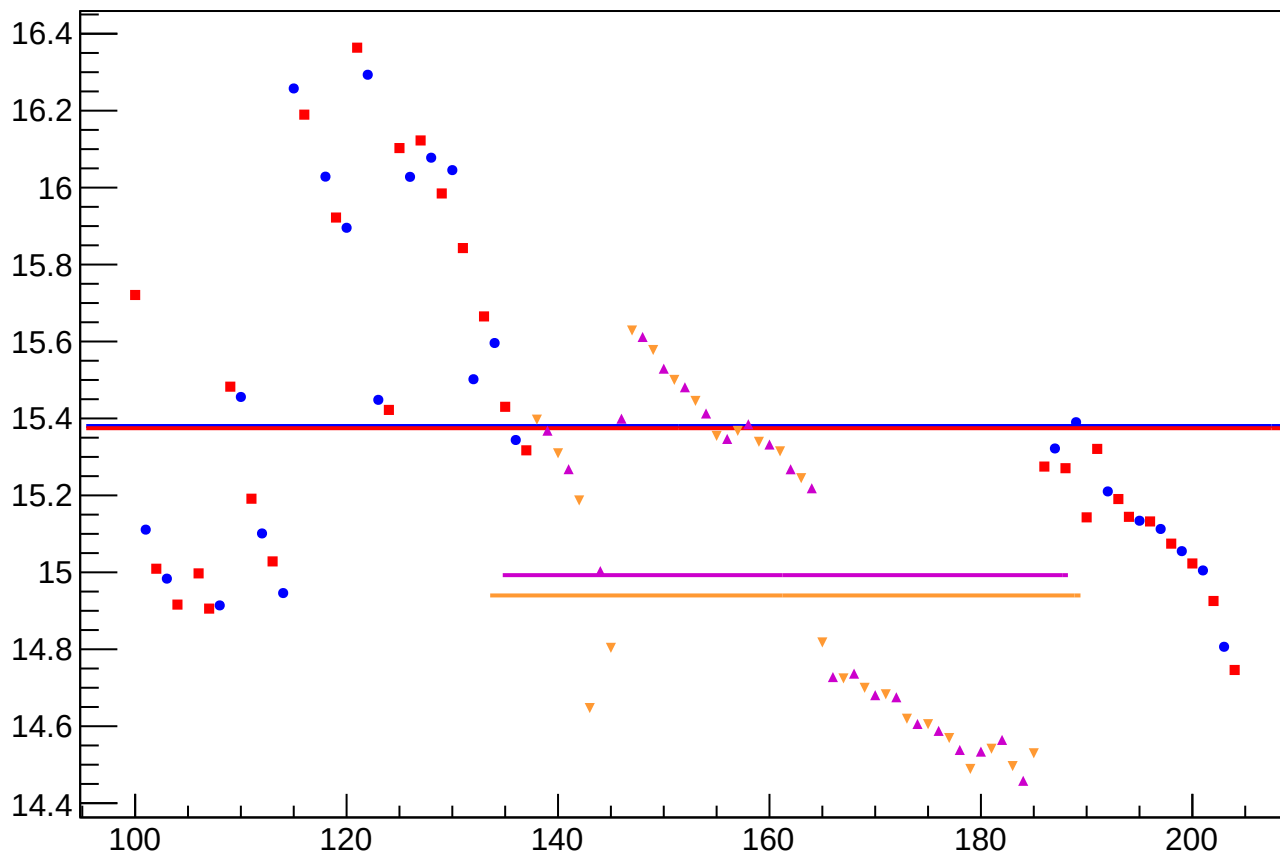
Right: 225.703 $\pm$ 0.040 χ^2 /NDF: 19604822.1/54

In: 261.177 $\pm$ 0.037 χ^2 /NDF: 8690544.2/47

Out: 243.705 $\pm$ 0.034 χ^2 /NDF: 12684089.9/54

All: 251.672 $\pm$ 0.025 χ^2 /NDF: 21496961.7/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.380 $\pm$ 0.000 χ^2 /NDF: 11038064954.2/24

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.375 $\pm$ 0.000 χ^2 /NDF: 11736482117.4/29

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

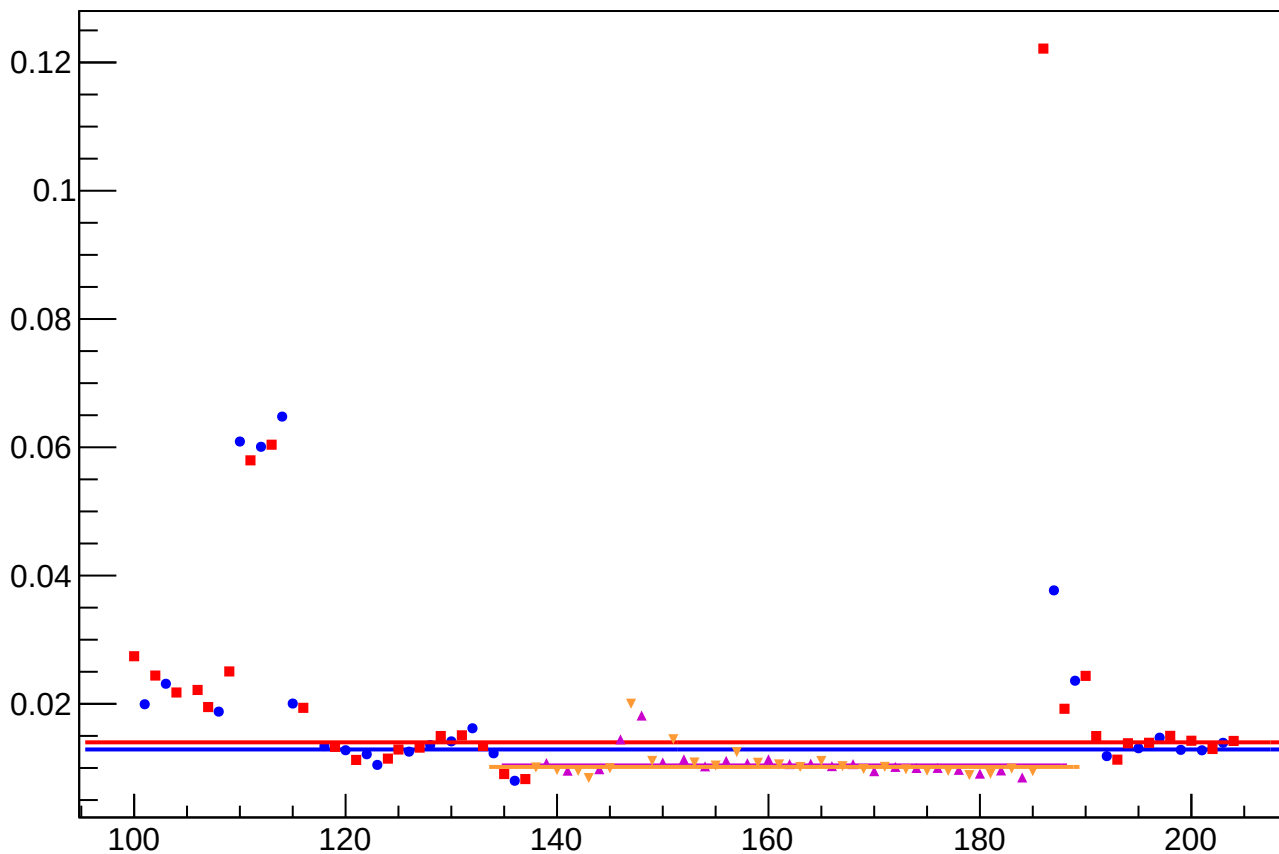
Right: 15.377 $\pm$ 0.000 χ^2 /NDF: 22775554840.3/54

In: 15.105 $\pm$ 0.000 χ^2 /NDF: 39694801462.2/47

Out: 15.056 $\pm$ 0.000 χ^2 /NDF: 44352400850.8/54

All: 15.080 $\pm$ 0.000 χ^2 /NDF: 84317854099.2

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2493195.8/24

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

Right Out: 0.014+/-0.000 χ^2/NDF : 2987929.1/29

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

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

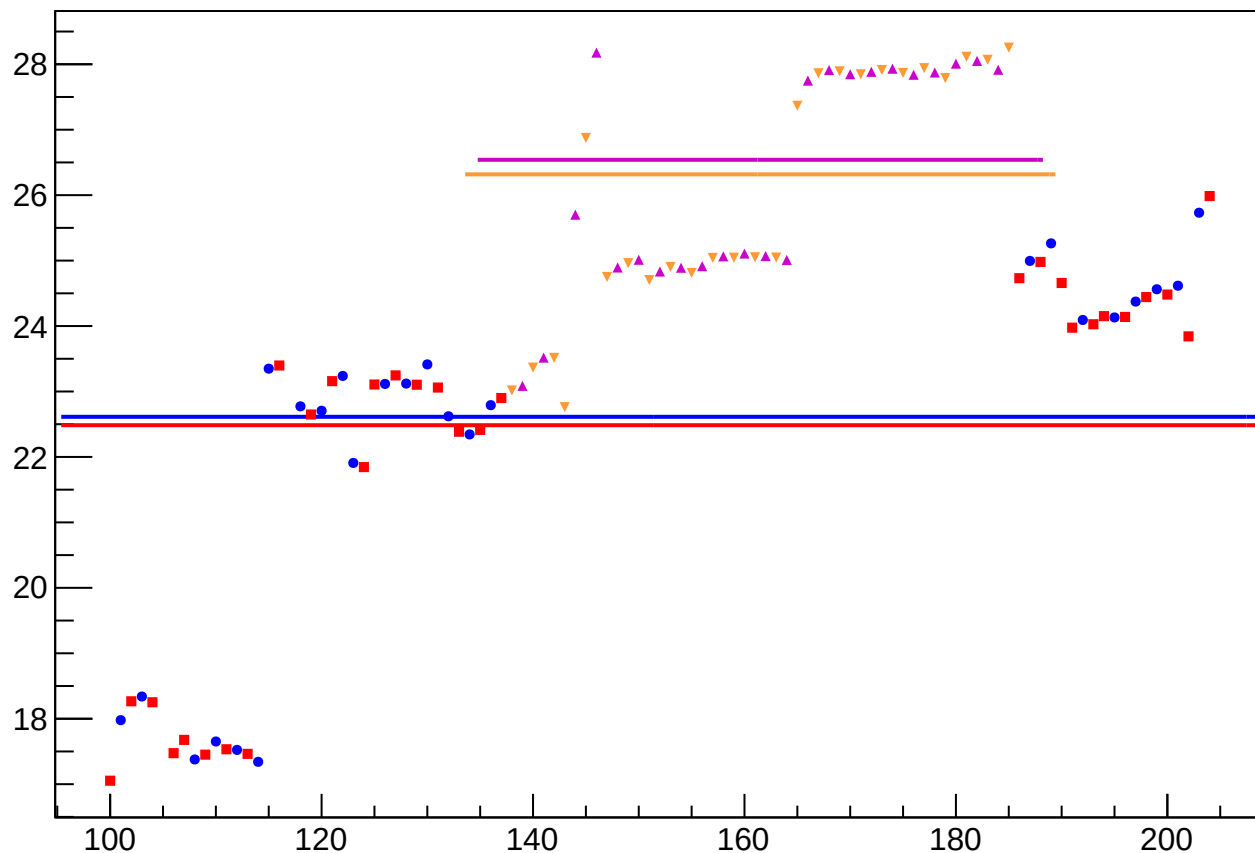
Right: 0.013+/-0.000 χ^2/NDF : 5556821.7/54

In: 0.011+/-0.000 χ^2/NDF : 3585070.5/47

Out: 0.011+/-0.000 χ^2/NDF : 5015049.6/54

All: 0.011+/-0.000 χ^2/NDF : 8601038.3/102

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.613+/-0.000

χ^2/NDF : 1197102569.2/24

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.551+/-0.000

χ^2/NDF : 2660769225.6/54

Right Out: 22.485+/-0.000

χ^2/NDF : 1460806967.4/29

In: 25.689+/-0.000

χ^2/NDF : 8839382896.7/47

Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

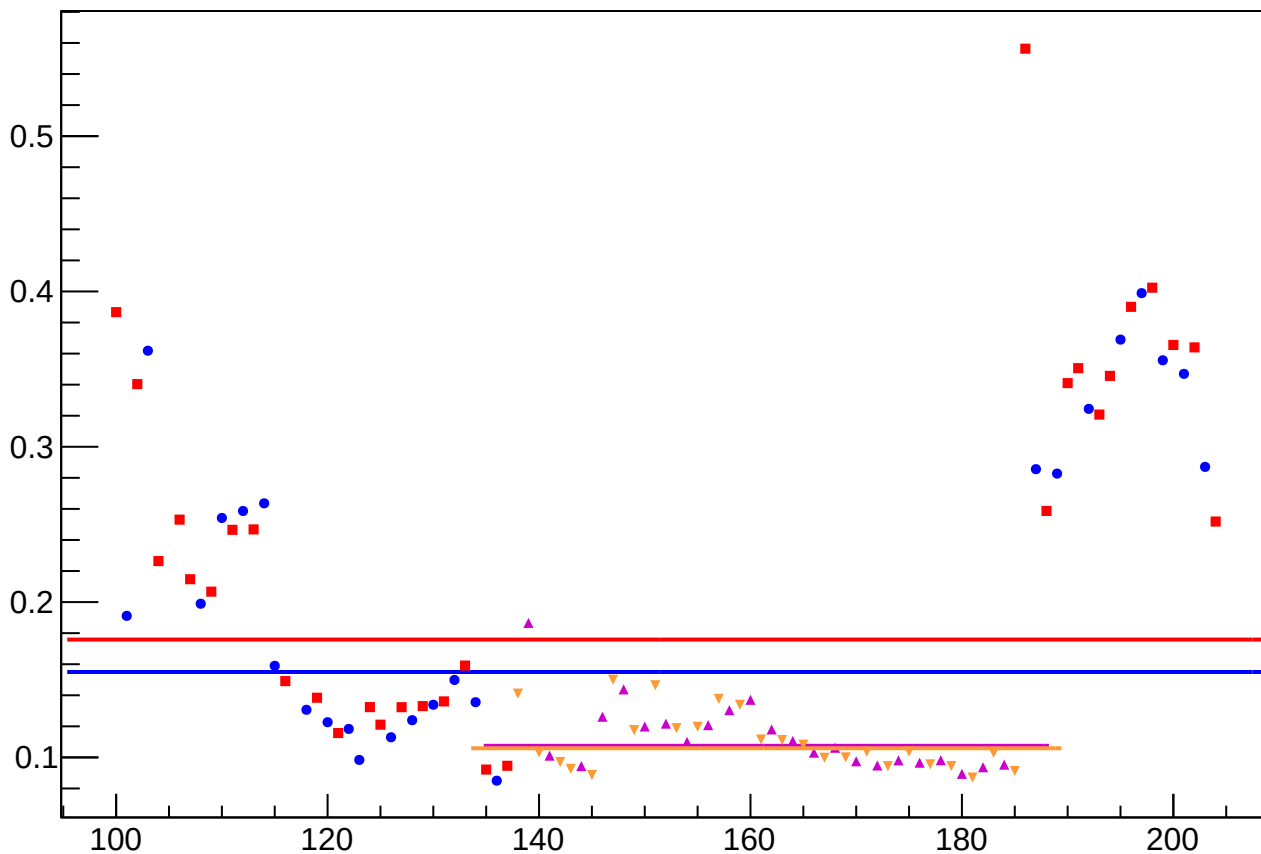
Out: 25.576+/-0.000

χ^2/NDF : 10184668898.3/54

All: 25.631+/-0.000

χ^2/NDF : 19034821106.9

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.155+/-0.000 χ^2/NDF : 5104429.1/24

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

Right Out: 0.176+/-0.000 χ^2/NDF : 5406110.9/29

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

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

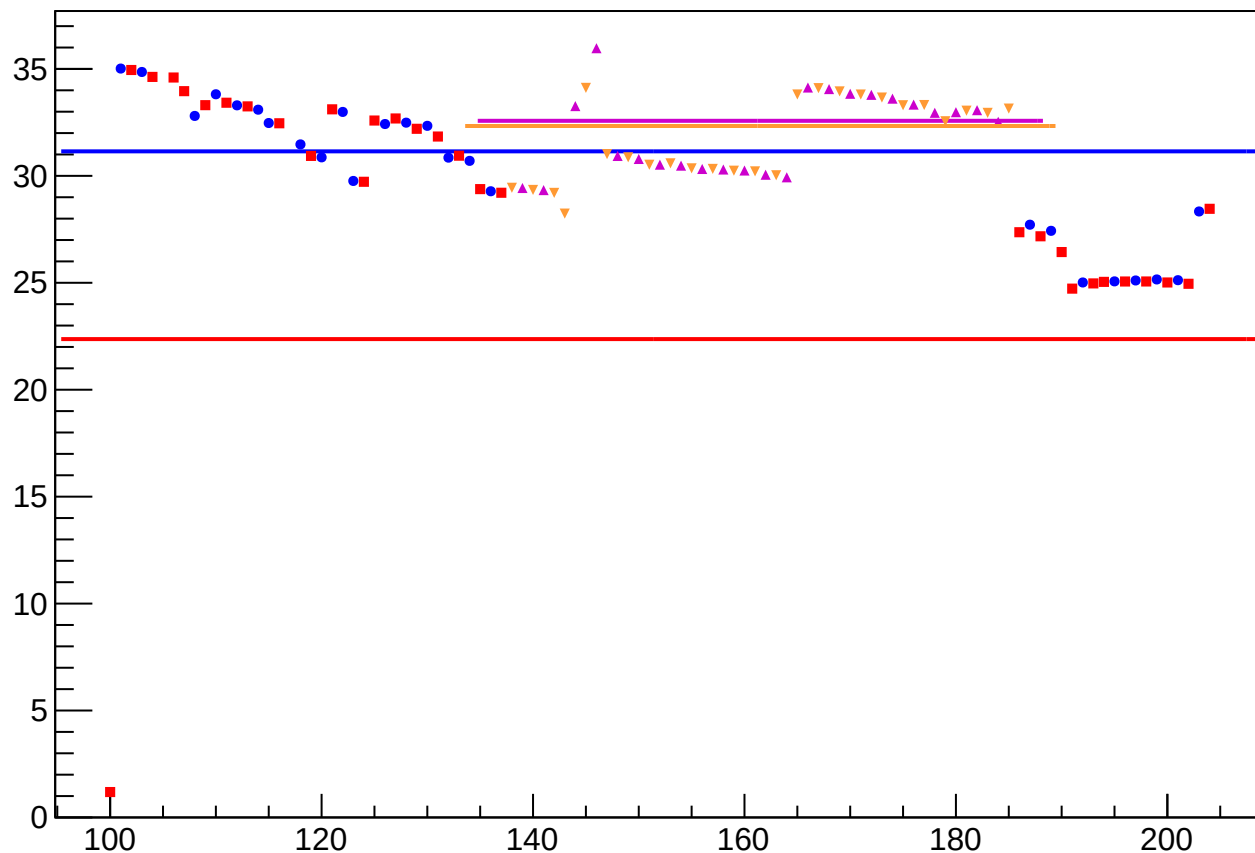
Right: 0.165+/-0.000 χ^2/NDF : 10662164.1/54

In: 0.118+/-0.000 χ^2/NDF : 7145167.6/47

Out: 0.119+/-0.000 χ^2/NDF : 8812262.3/54

All: 0.119+/-0.000 χ^2/NDF : 15962039.8/102

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.146+/-0.000

χ^2/NDF : 5014543942.3/24

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right: 25.918+/-0.000

χ^2/NDF : 274765206456.2/54

Right Out: 22.367+/-0.000

χ^2/NDF : 232003625199.4/29

In: 32.326+/-0.000

χ^2/NDF : 18199807017.8/47

Out: 30.057+/-0.000

χ^2/NDF : 337654818017.8/54

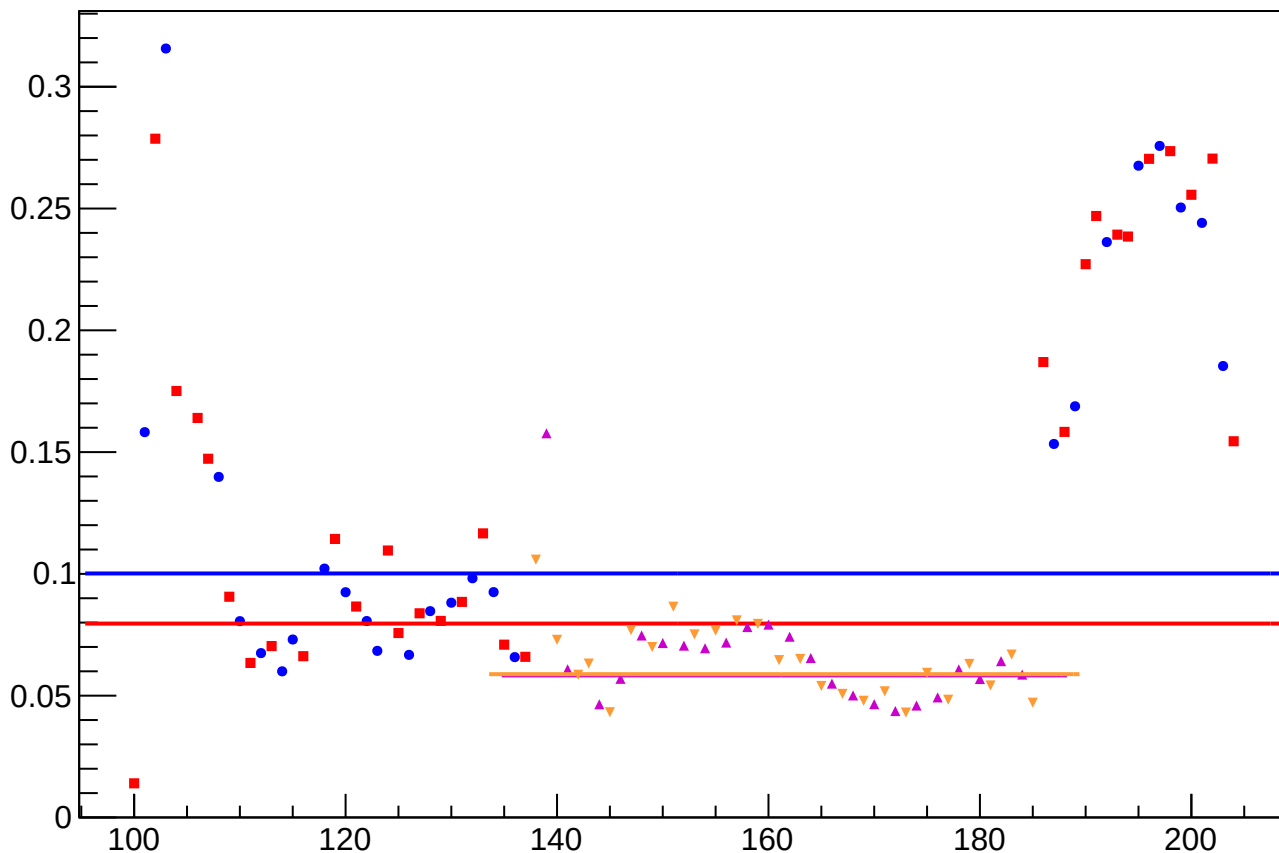
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.128+/-0.000

χ^2/NDF : 368749006273.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.100 $\pm$ 0.000 χ^2 /NDF: 5061685.4/24

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

Right Out: 0.080 $\pm$ 0.000 χ^2 /NDF: 10011220.1/29

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

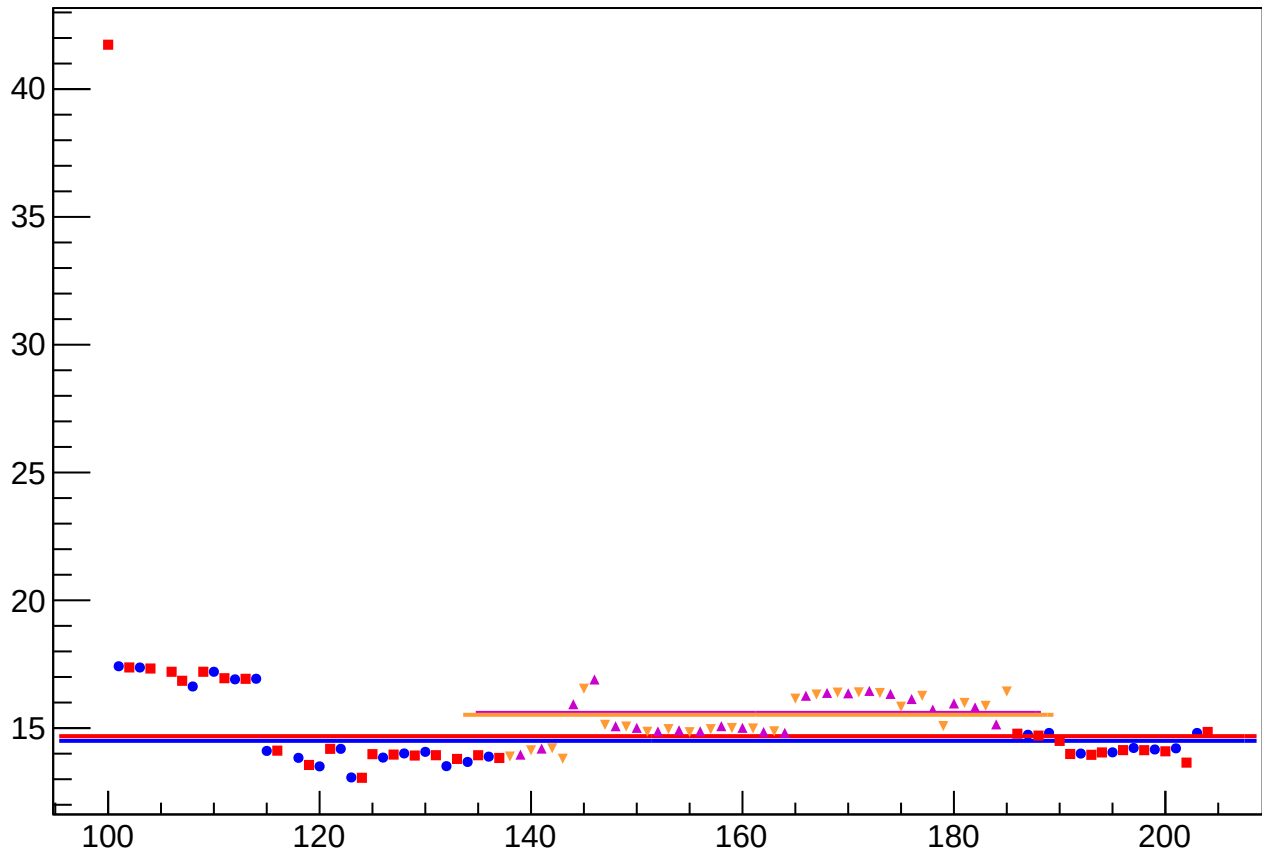
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 15487768.4/54

In: 0.066 $\pm$ 0.000 χ^2 /NDF:8970005.1/47

Out: 0.064 $\pm$ 0.000 χ^2 /NDF:12220356.5/54

All: 0.065 $\pm$ 0.000 χ^2 /NDF: 21210539.6/102

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.502+/-0.000

χ^2/NDF : 1502285247.5/24

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right Out: 14.686+/-0.000

χ^2/NDF : 1954088979.2/29

Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Right: 14.593+/-0.000

χ^2/NDF : 3472919119.5/54

In: 15.352+/-0.000

χ^2/NDF : 4324983251.8/47

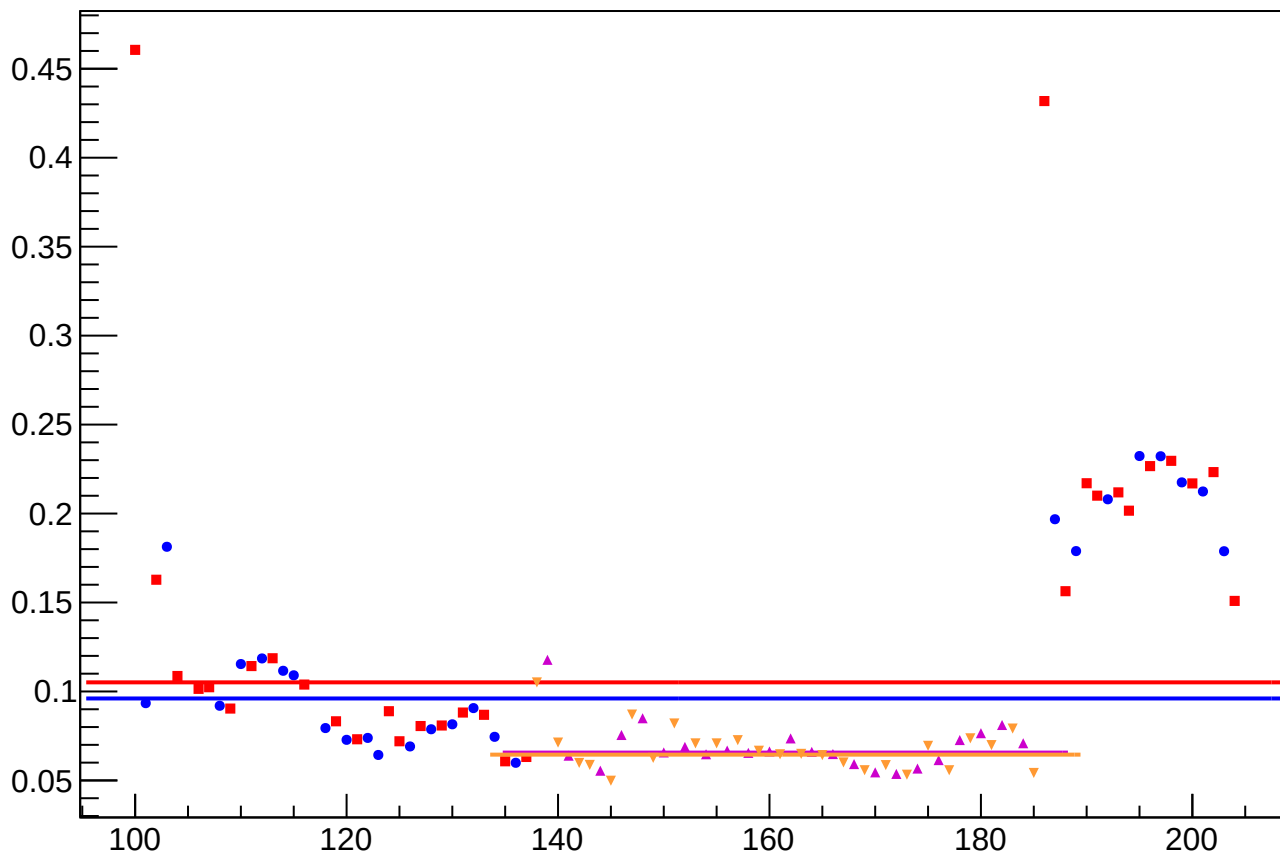
Out: 15.349+/-0.000

χ^2/NDF : 5085174866.4/54

All: 15.350+/-0.000

χ^2/NDF : 9410185738.6/131

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.096 $\pm$ 0.000 χ^2 /NDF: 4339149.6/24

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

Right Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 4738529.0/29

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

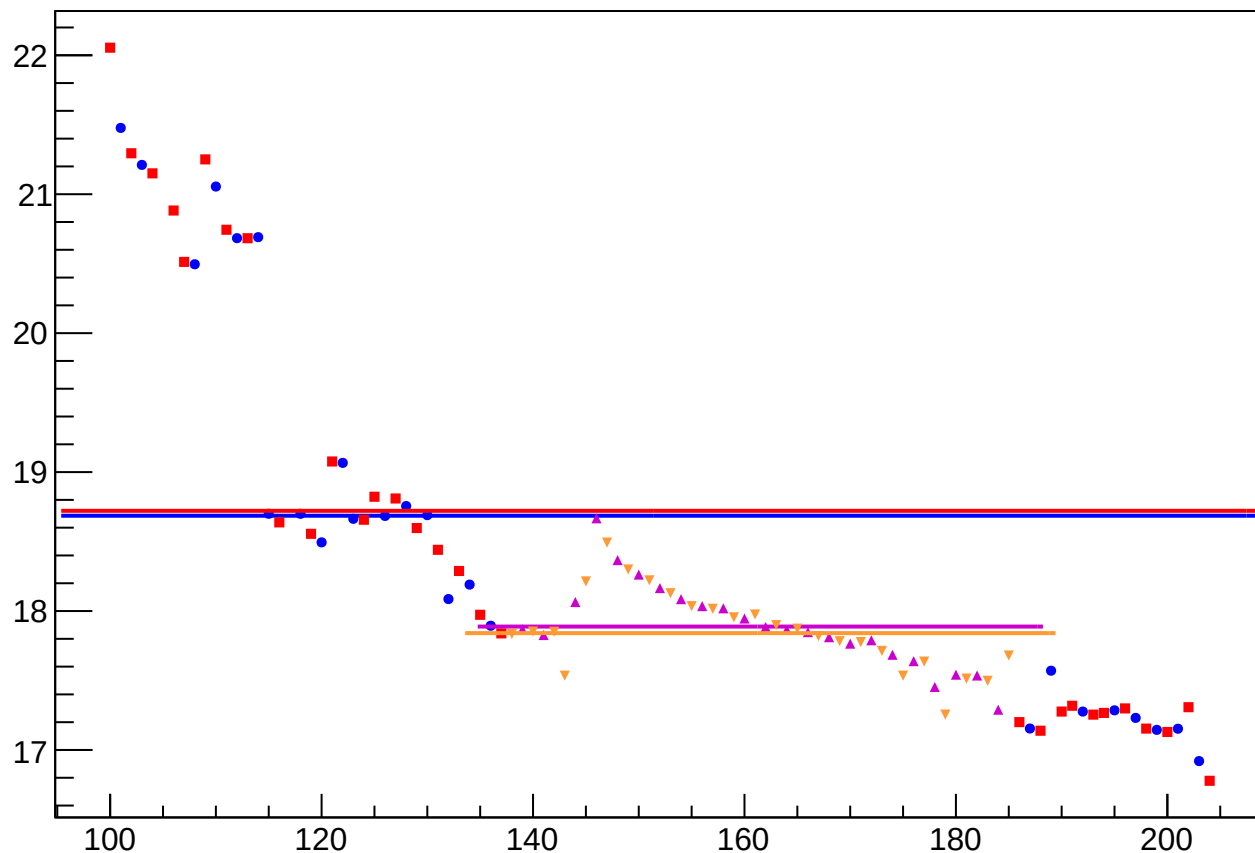
Right: 0.101 $\pm$ 0.000 χ^2 /NDF: 9157928.4/54

In: 0.072 $\pm$ 0.000 χ^2 /NDF: 6467732.4/47

Out: 0.073 $\pm$ 0.000 χ^2 /NDF: 8052294.8/54

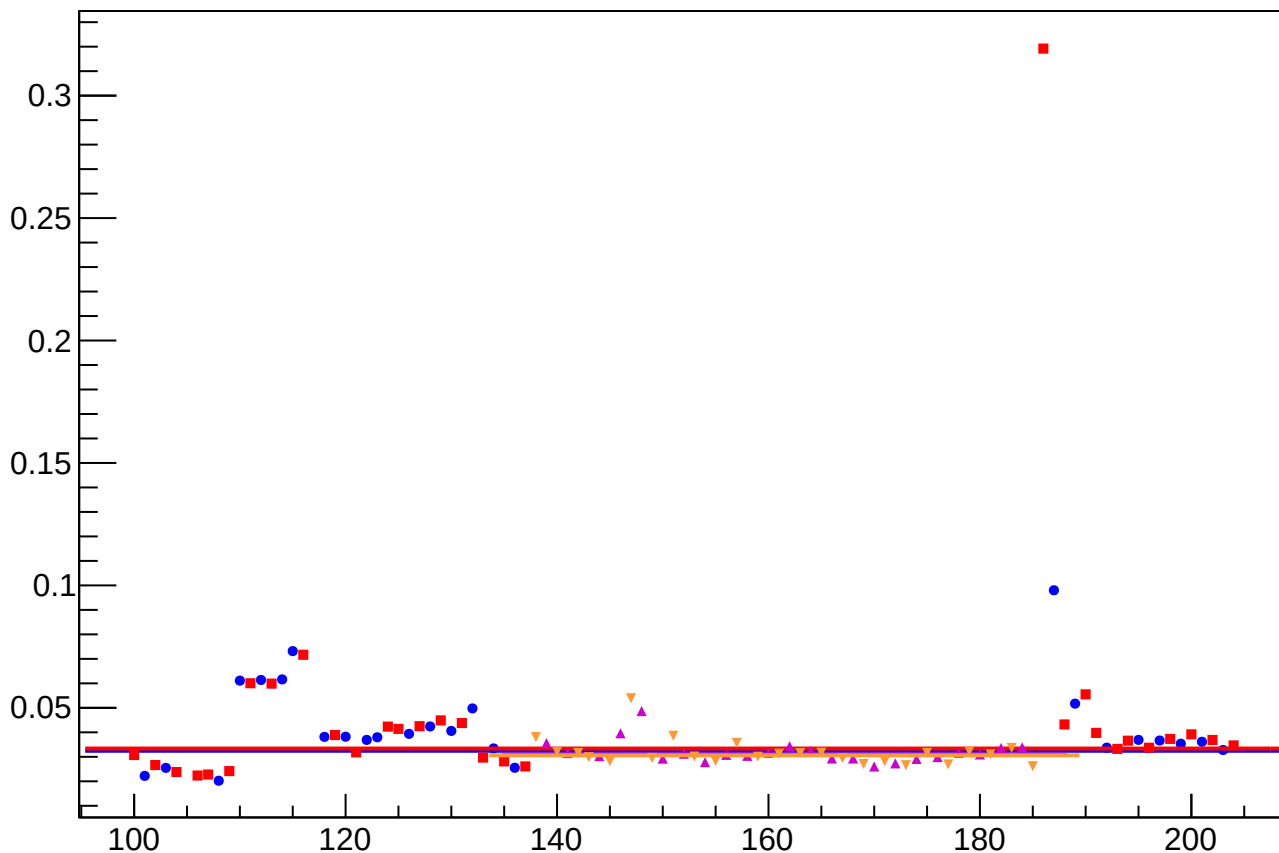
All: 0.073 $\pm$ 0.000 χ^2 /NDF: 14521012.7/102

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.686+/-0.000	χ^2/NDF : 27528614618.8/24	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.704+/-0.000	χ^2/NDF : 58531833011.7/54
Right Out: 18.721+/-0.000	χ^2/NDF : 30996643107.8/29	In: 18.182+/-0.000	χ^2/NDF : 32799470778.3/47
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.167+/-0.000	χ^2/NDF : 37635144823.5/54
		All: 18.174+/-0.000	χ^2/NDF : 70437638898.1

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 1690163.6/24

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

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 2133277.1/29

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

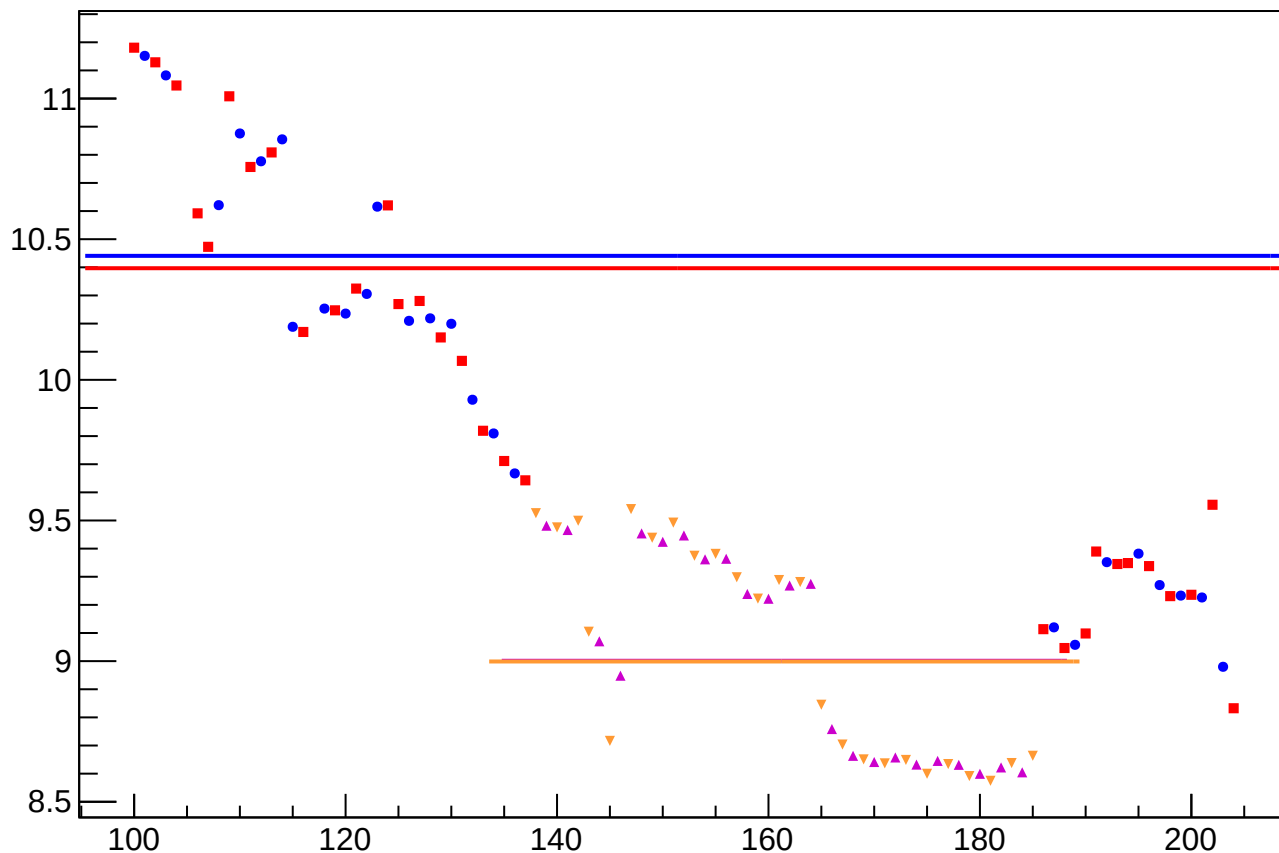
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3832002.2/54

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2175485.4/47

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2829998.9/54

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5006155.1/102

yield_sam6_mean vs Slug, Sign Corrected



Left: 9.000 ± 0.000 $\chi^2/\text{NDF}: 11707260677.5/47$

Right: 10.419 ± 0.000 $\chi^2/\text{NDF}: 24756005211.4/54$

In: 9.583 ± 0.000 $\chi^2/\text{NDF}: 53723687379.0/47$

Out: 9.533 ± 0.000 $\chi^2/\text{NDF}: 53669741681.0/54$

Right In: 10.441 ± 0.000 $\chi^2/\text{NDF}: 12549180995.1/24$

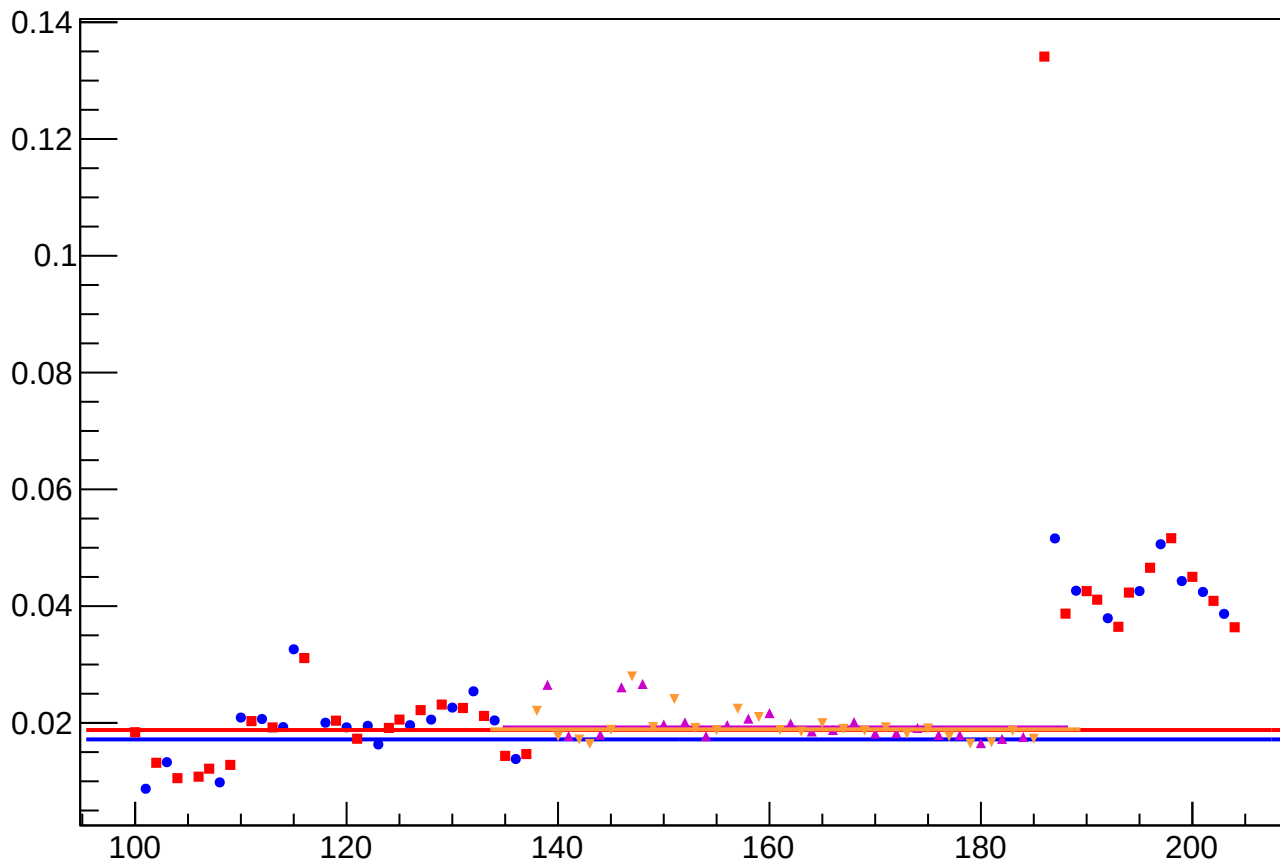
Left Out: 8.999 ± 0.000 $\chi^2/\text{NDF}: 6392583736.5/24$

Right Out: 10.397 ± 0.000 $\chi^2/\text{NDF}: 12178726060.7/29$

Left In: 9.001 ± 0.000 $\chi^2/\text{NDF}: 5314536205.4/22$

All: 9.557 ± 0.000 $\chi^2/\text{NDF}: 107486018862.2$

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 5673402.7/24

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

Right Out: 0.019+/-0.000 χ^2/NDF : 6194271.6/29

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

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

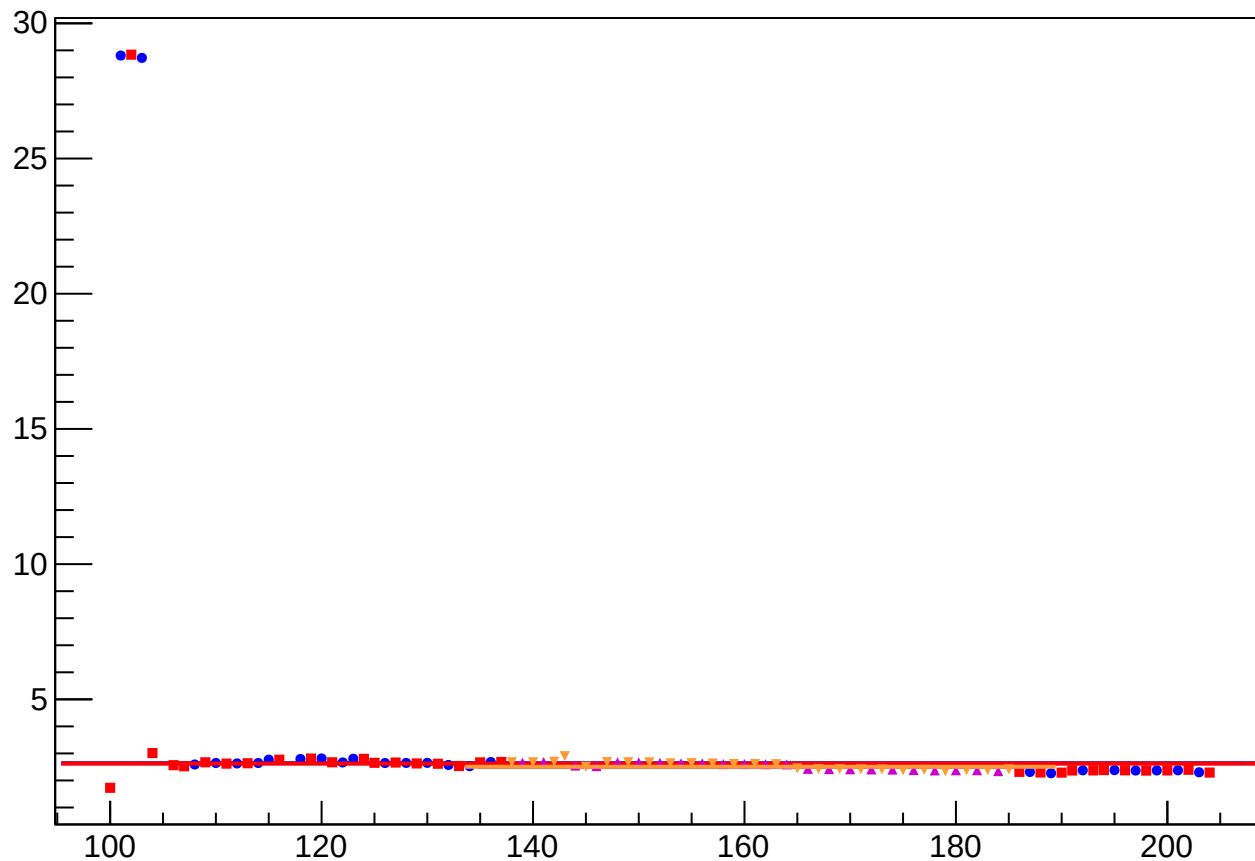
Right: 0.018+/-0.000 χ^2/NDF : 11942409.2/54

In: 0.018+/-0.000 χ^2/NDF : 6300331.5/47

Out: 0.019+/-0.000 χ^2/NDF : 6622926.6/54

All: 0.019+/-0.000 χ^2/NDF : 12938603.6/102

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.637 $\pm$ 0.000 χ^2/NDF : 174706140448.5/24

Left Out: 2.507 $\pm$ 0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.625 $\pm$ 0.000 χ^2/NDF : 87264375749.6/29

Left In: 2.505 $\pm$ 0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2/NDF : 107174595641.7/47

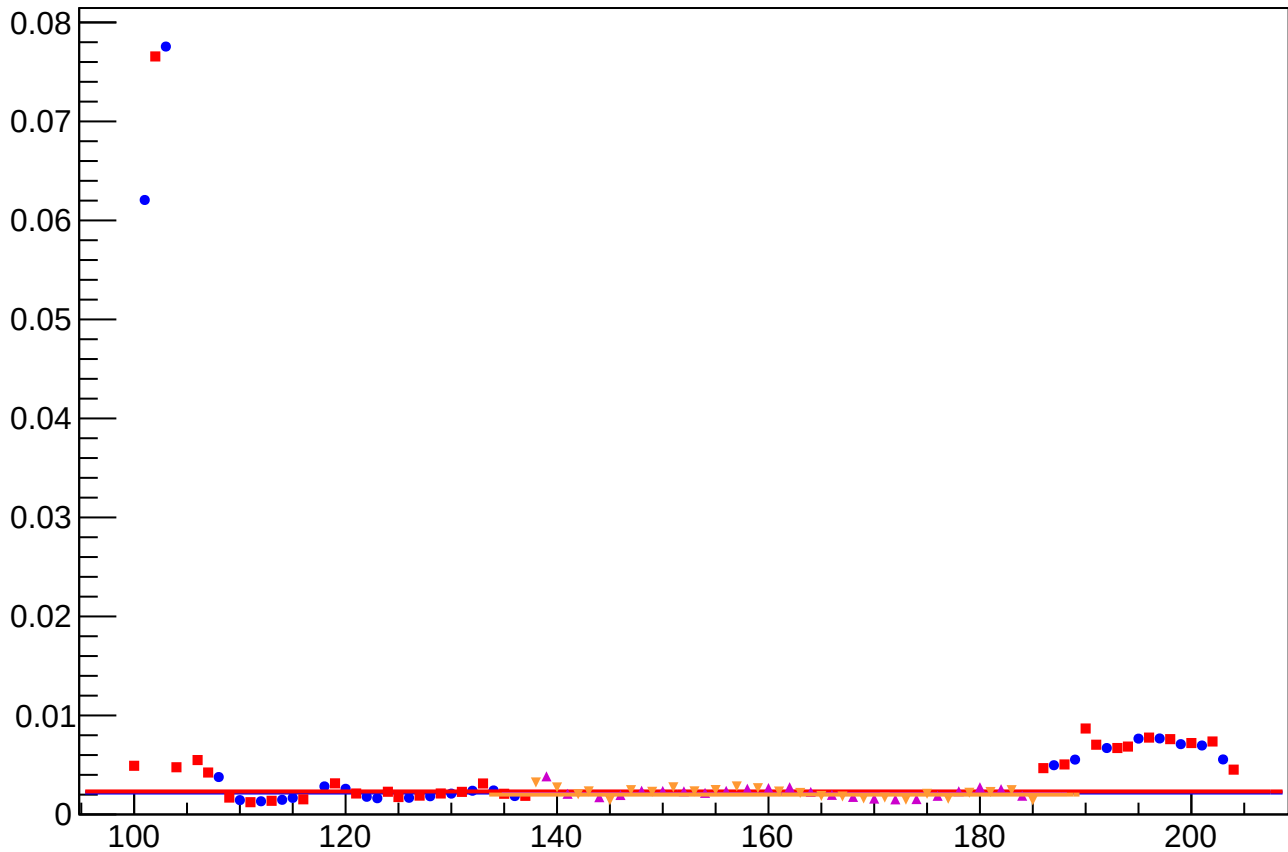
Right: 2.631 $\pm$ 0.000 χ^2/NDF : 262094918969.0/54

In: 2.546 $\pm$ 0.000 χ^2/NDF : 235327072469.0/47

Out: 2.542 $\pm$ 0.000 χ^2/NDF : 166944008901.8/54

All: 2.544 $\pm$ 0.000 χ^2/NDF : 402303352949.6

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 7873926.4/24

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 8623453.7/29

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1303230.9/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2781893.0/47

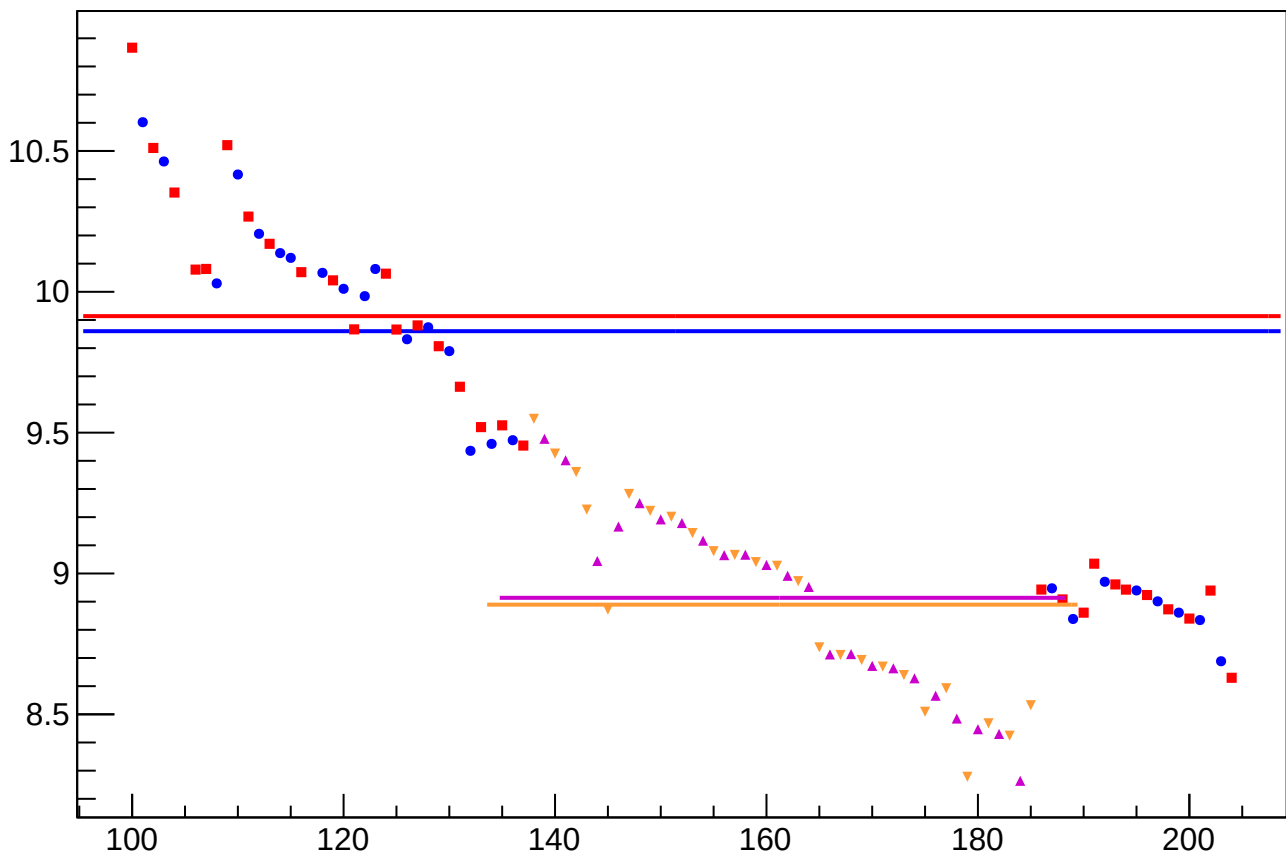
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 16516570.3/54

In: 0.002 $\pm$ 0.000 χ^2 /NDF:9224021.1/47

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:10314229.3/54

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 19538309.5/102

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.860 $\pm$ 0.000

χ^2 /NDF: 45226346592.5/24

Left: 8.901 $\pm$ 0.000

χ^2 /NDF: 63312247922.6/47

Left Out: 8.889 $\pm$ 0.000

χ^2 /NDF: 34704694045.9/24

Right: 9.888 $\pm$ 0.000

χ^2 /NDF: 99278626680.1/54

Right Out: 9.914 $\pm$ 0.000

χ^2 /NDF: 53749006760.5/29

In: 9.264 $\pm$ 0.000

χ^2 /NDF: 189188583740.5/47

Out: 9.253 $\pm$ 0.000

χ^2 /NDF: 238358519220.8/54

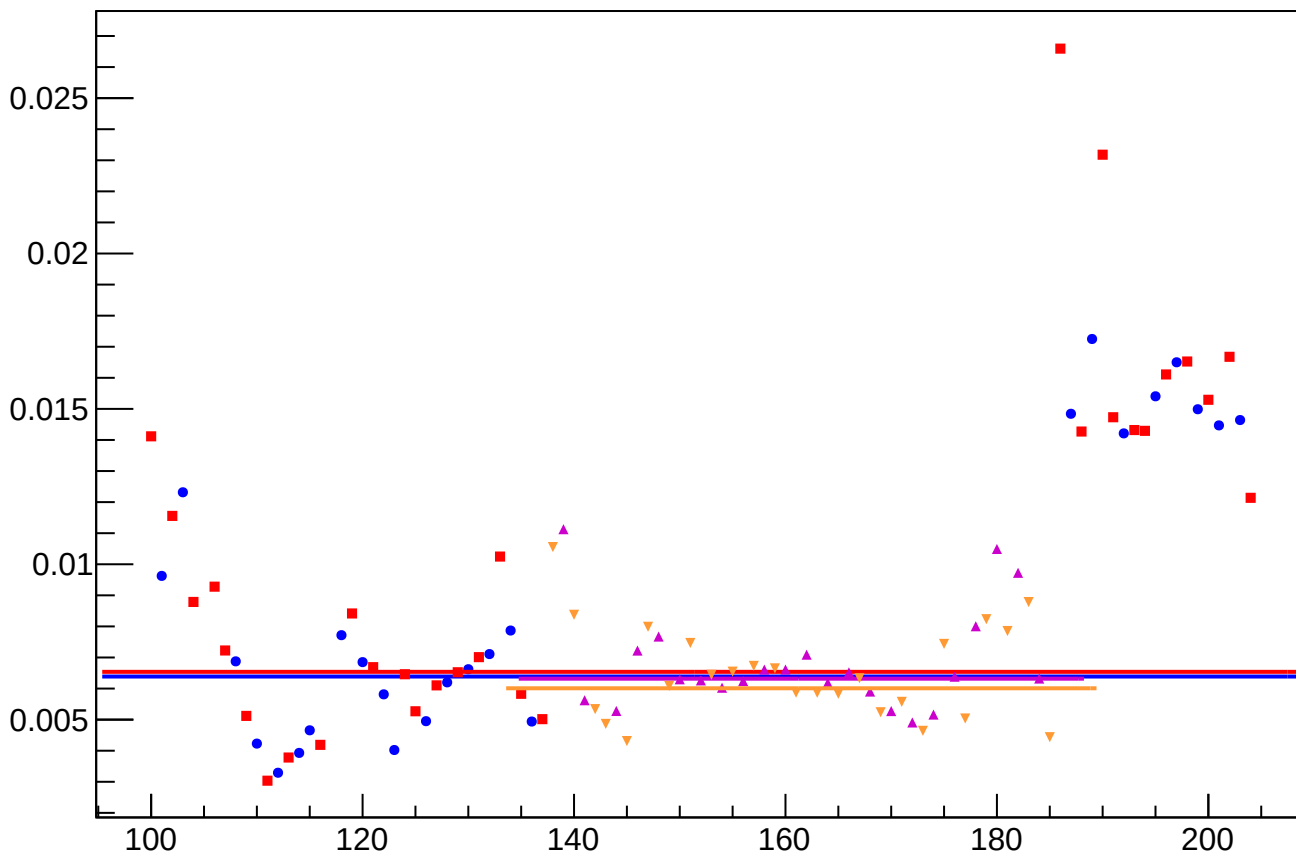
Left In: 8.914 $\pm$ 0.000

χ^2 /NDF: 28497227562.7/22

All: 9.258 $\pm$ 0.000

χ^2 /NDF: 427583718233.5

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 5278287.2/24

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6982878.2/29

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

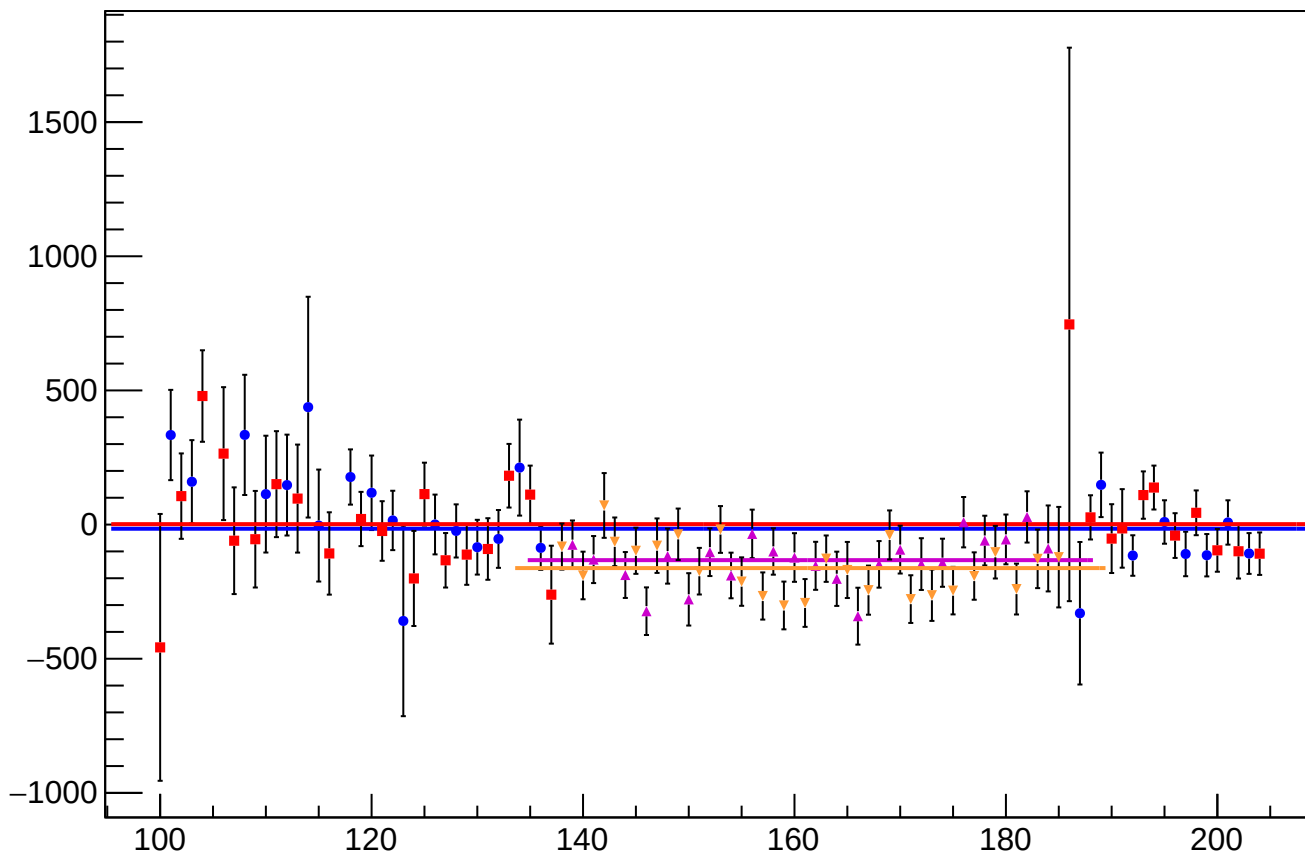
Right: 0.006+/-0.000 χ^2/NDF : 12266012.9/54

In: 0.006+/-0.000 χ^2/NDF :6366575.7/47

Out: 0.006+/-0.000 χ^2/NDF :8375431.3/54

All: 0.006+/-0.000 χ^2/NDF : 14754639.2/102

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -15.499 ± 22.401 χ^2/NDF : 28.3/24

Left Out: -162.161 ± 18.745 χ^2/NDF : 25.7/24

Right Out: 1.585 ± 21.322 χ^2/NDF : 32.9/29

Left In: -132.557 ± 19.403 χ^2/NDF : 20.7/22

Left: -147.870 ± 13.481 χ^2/NDF : 47.6/47

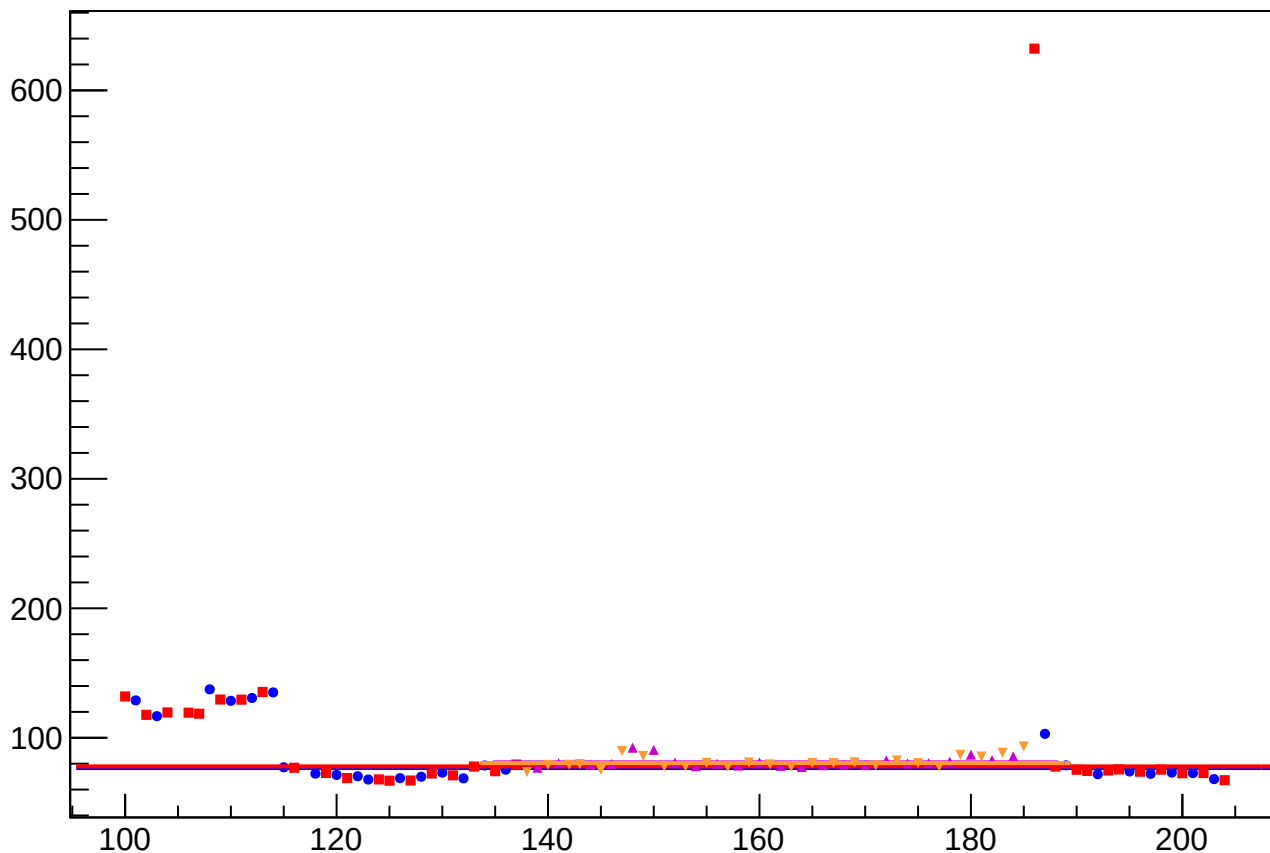
Right: -6.536 ± 15.444 χ^2/NDF : 61.5/54

In: -82.379 ± 14.666 χ^2/NDF : 64.6/47

Out: -90.776 ± 14.078 χ^2/NDF : 91.9/54

All: -86.749 ± 10.156 χ^2/NDF : 156.7/102

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 76.632 $\pm$ 0.016 χ^2 /NDF: 910554.3/24

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 77.911 $\pm$ 0.015 χ^2 /NDF: 1592589.2/29

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

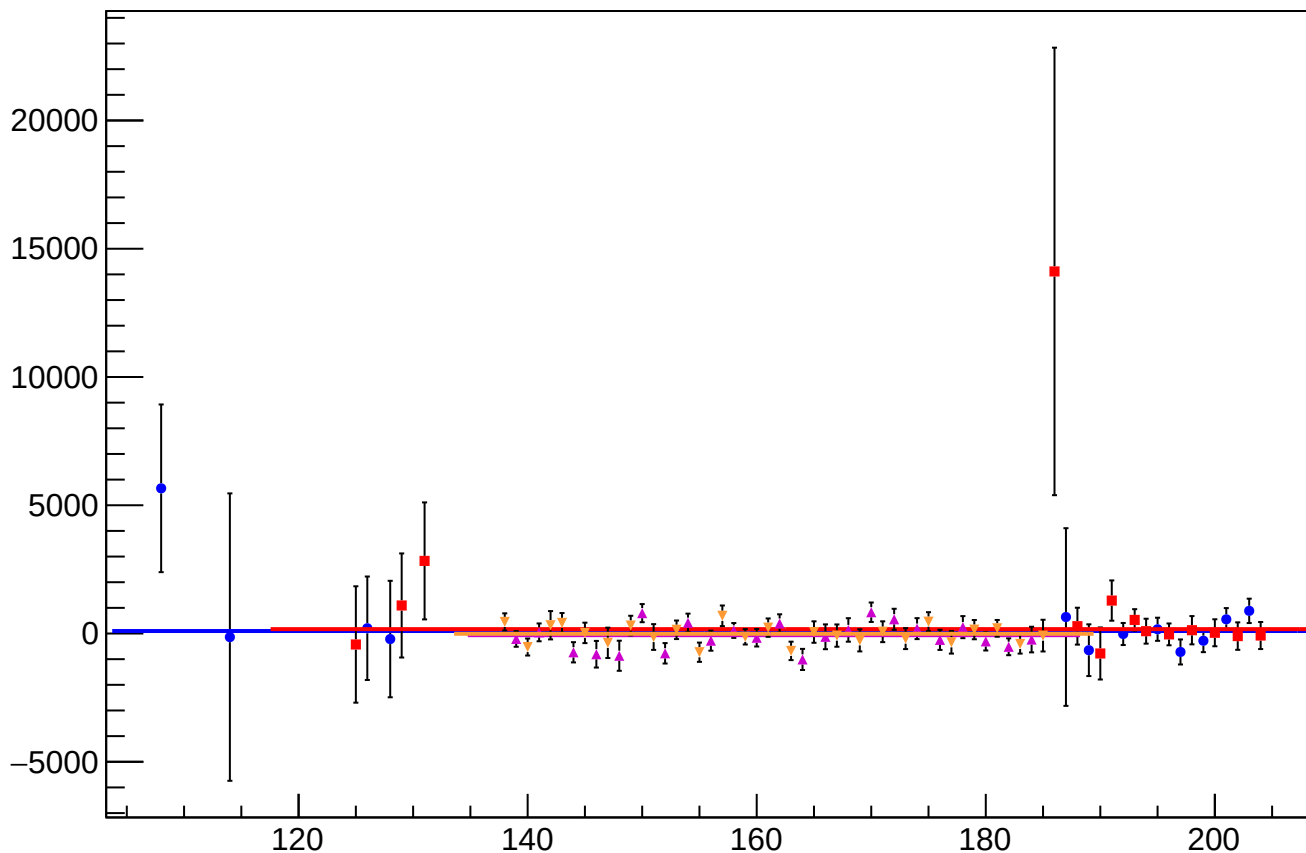
Right: 77.303 $\pm$ 0.011 χ^2 /NDF: 2506564.1/54

In: 79.135 $\pm$ 0.010 χ^2 /NDF: 1026535.1/47

Out: 79.348 $\pm$ 0.010 χ^2 /NDF: 1698643.9/54

All: 79.246 $\pm$ 0.007 χ^2 /NDF: 2725397.5/102

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 97.429 ± 180.002 χ^2/NDF : 10.9/11

Left Out: -10.486 ± 78.391 χ^2/NDF : 22.5/24

Right Out: 171.160 ± 169.901 χ^2/NDF : 8.7/13

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

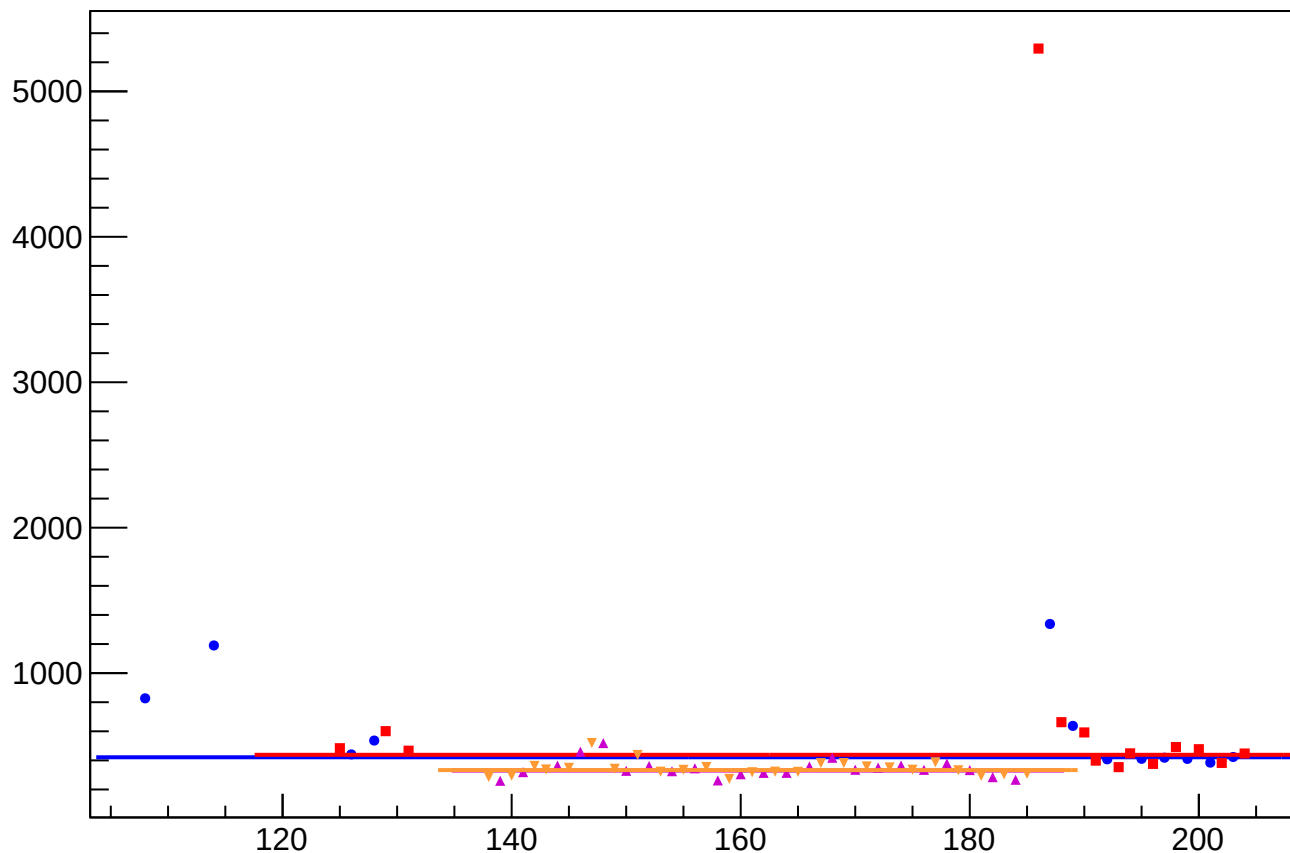
Right: 136.422 ± 123.555 χ^2/NDF : 19.7/25

In: -37.841 ± 73.141 χ^2/NDF : 49.0/34

Out: 21.396 ± 71.180 χ^2/NDF : 32.2/38

All: -7.418 ± 51.011 χ^2/NDF : 81.5/73

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 421.399+/-0.127 χ^2/NDF : 324145.0/11

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

Right Out: 438.405+/-0.120 χ^2/NDF : 1057277.7/13

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

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

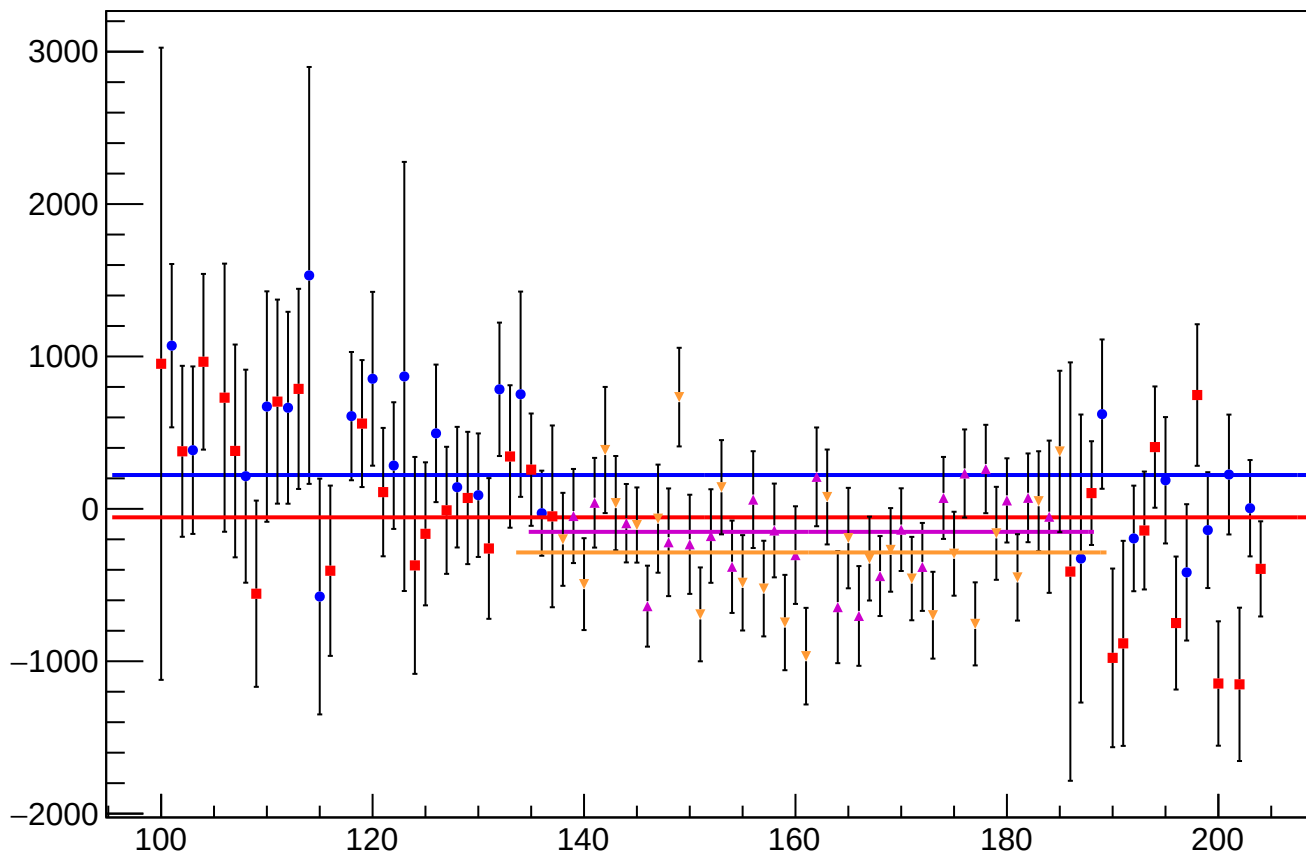
Right: 430.393+/-0.087 χ^2/NDF : 1390863.3/25

In: 345.078+/-0.052 χ^2/NDF : 1550769.2/34

Out: 351.693+/-0.050 χ^2/NDF : 2281257.1/38

All: 348.475+/-0.036 χ^2/NDF : 3840426.7/73

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 222.051 $\pm$ 92.929 χ^2/NDF : 17.2/24

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: -55.609 $\pm$ 89.094 χ^2/NDF : 37.7/29

Left In: -150.920 $\pm$ 62.818 χ^2/NDF :18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

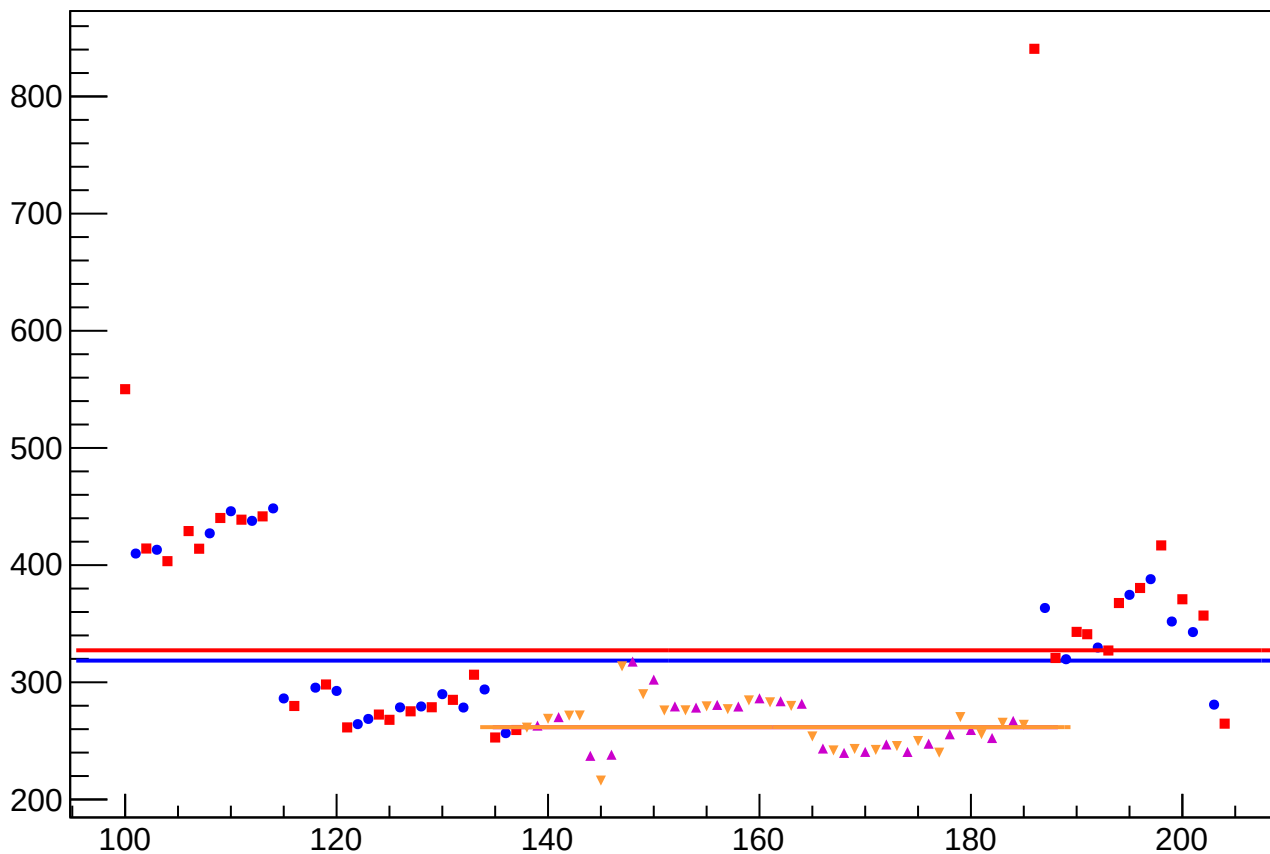
Right: 77.374 $\pm$ 64.312 χ^2/NDF : 59.5/54

In: -33.945 $\pm$ 52.043 χ^2/NDF :46.9/47

Out: -212.334 $\pm$ 50.386 χ^2/NDF :78.8/54

All: -126.024 $\pm$ 36.200 χ^2/NDF : 131.8/102

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 318.514 $\pm$ 0.066 χ^2 /NDF: 668445.2/24

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF: 233222.6/24

Right Out: 327.299 $\pm$ 0.063 χ^2 /NDF: 1166743.8/29

Left In: 261.637 $\pm$ 0.044 χ^2 /NDF: 228241.3/22

Left: 261.680 $\pm$ 0.031 χ^2 /NDF: 461465.7/47

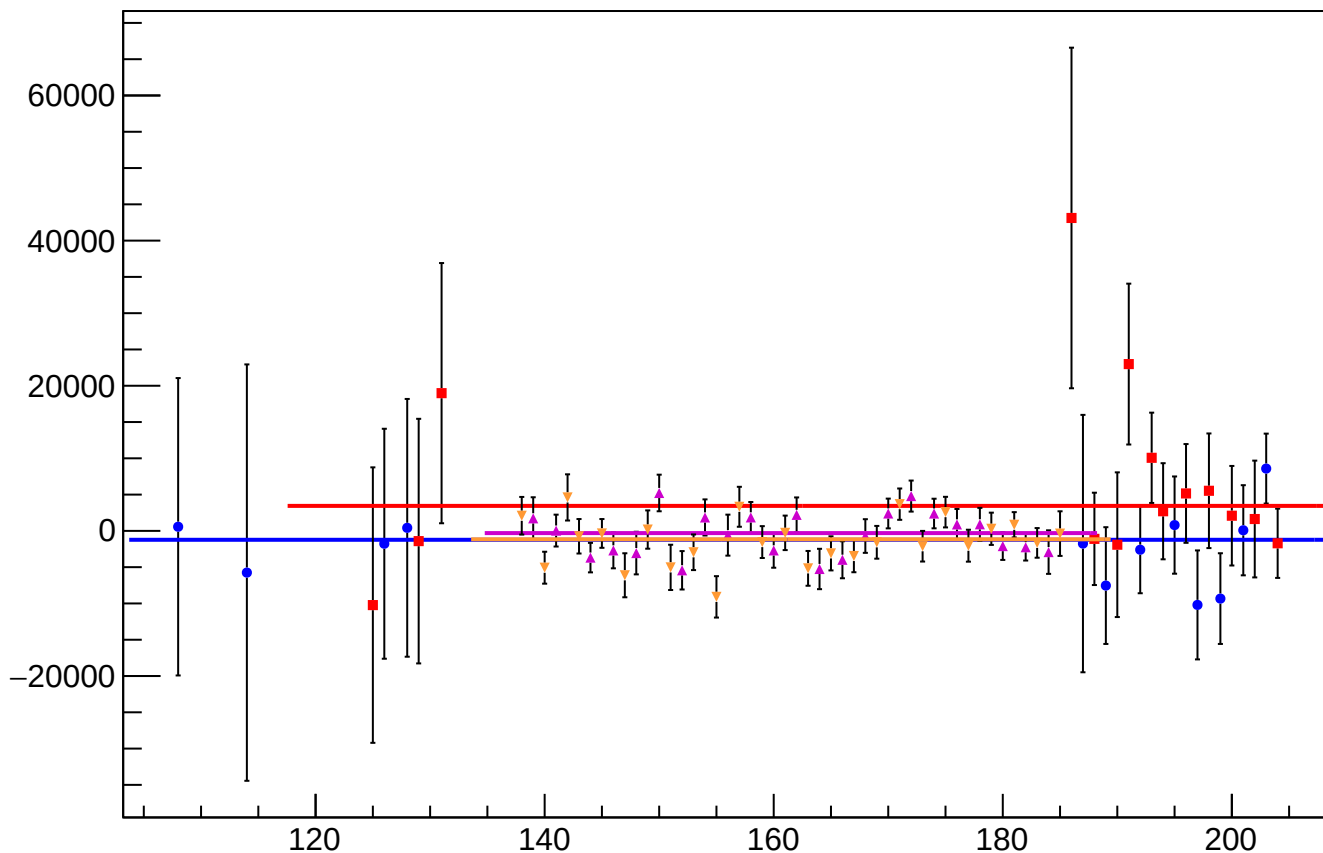
Right: 323.092 $\pm$ 0.045 χ^2 /NDF: 1844501.4/54

In: 279.475 $\pm$ 0.037 χ^2 /NDF: 1410930.8/47

Out: 282.695 $\pm$ 0.036 χ^2 /NDF: 2136946.5/54

All: 281.137 $\pm$ 0.026 χ^2 /NDF: 3551829.8/102

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -1227.168 $\pm$ 2283.158 χ^2 /NDF: 8.1/11

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 3445.025 $\pm$ 2127.287 χ^2 /NDF: 10.7/13

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

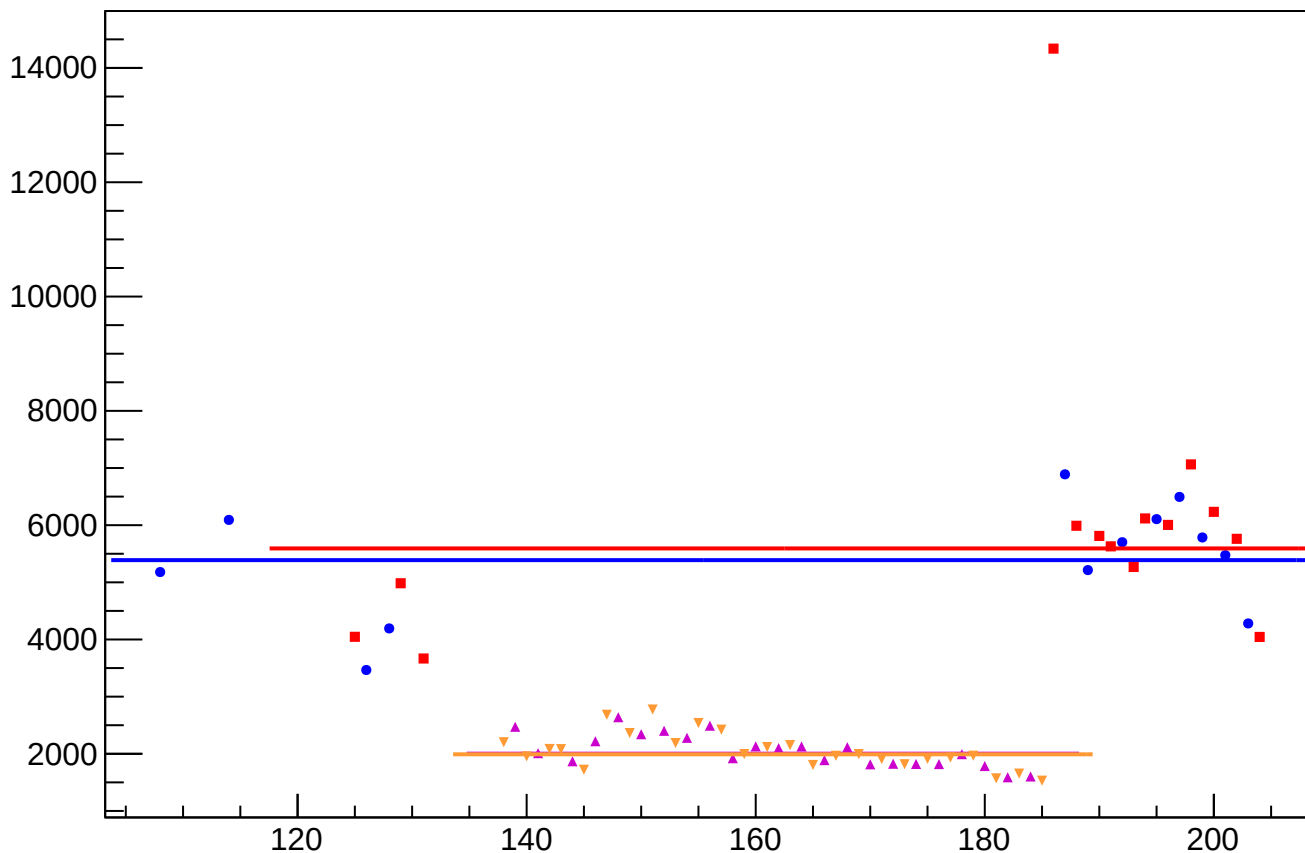
Right: 1273.844 $\pm$ 1556.409 χ^2 /NDF: 21.0/25

In: -344.017 $\pm$ 473.271 χ^2 /NDF:43.6/34

Out: -947.886 $\pm$ 458.035 χ^2 /NDF:53.9/38

All: -655.828 $\pm$ 329.134 χ^2 /NDF: 98.3/73

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5388.347 $\pm$ 1.614 χ^2 /NDF: 241158.6/11

Left Out: 1991.105 $\pm$ 0.332 χ^2 /NDF: 726310.6/24

Right Out: 5593.225 $\pm$ 1.504 χ^2 /NDF: 648951.2/13

Left In: 2002.154 $\pm$ 0.342 χ^2 /NDF: 585947.4/22

Left: 1996.458 $\pm$ 0.238 χ^2 /NDF: 1312795.7/47

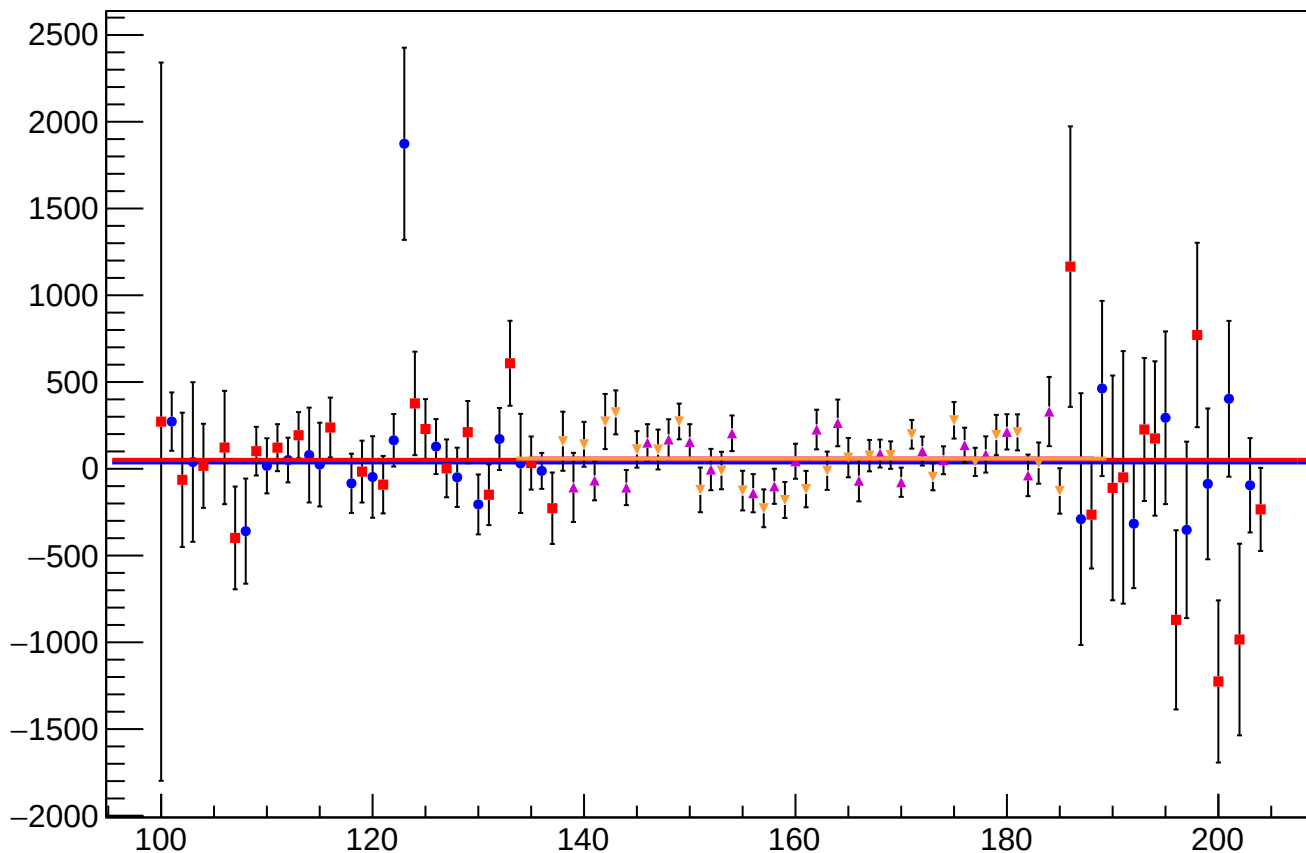
Right: 5498.017 $\pm$ 1.101 χ^2 /NDF: 898730.5/25

In: 2147.652 $\pm$ 0.335 χ^2 /NDF: 5037354.8/34

Out: 2158.099 $\pm$ 0.324 χ^2 /NDF: 6843890.3/38

All: 2153.047 $\pm$ 0.233 χ^2 /NDF: 11881748.3/71

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 36.515 ± 41.884 χ^2/NDF : 23.1/24

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 51.610 ± 40.988 χ^2/NDF : 38.2/29

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

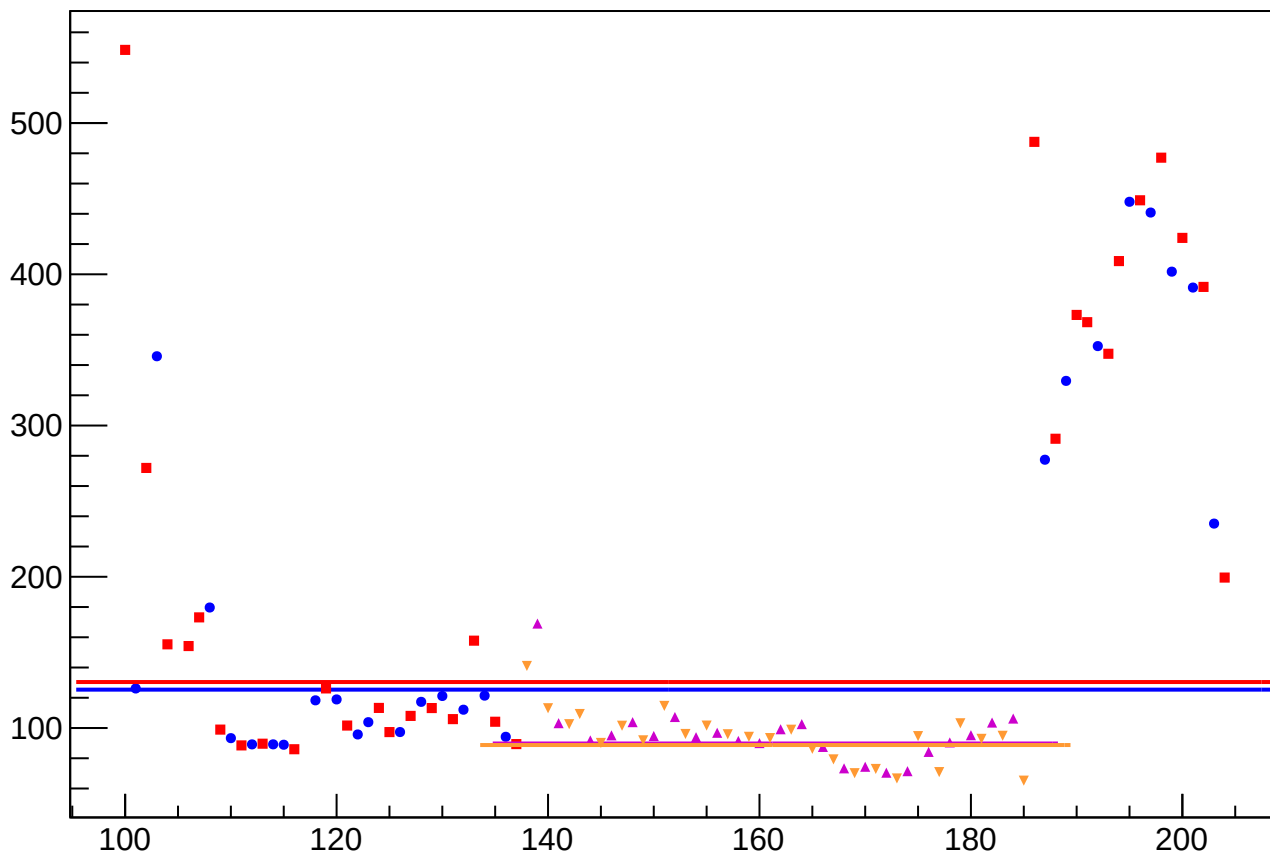
Right: 44.226 ± 29.294 χ^2/NDF : 61.3/54

In: 54.349 ± 19.422 χ^2/NDF : 52.7/47

Out: 57.434 ± 18.786 χ^2/NDF : 85.2/54

All: 55.943 ± 13.503 χ^2/NDF : 137.9/102

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 125.372 $\pm$ 0.030 χ^2 /NDF: 5799585.1/24

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 130.403 $\pm$ 0.029 χ^2 /NDF: 7211232.5/29

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF: 885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

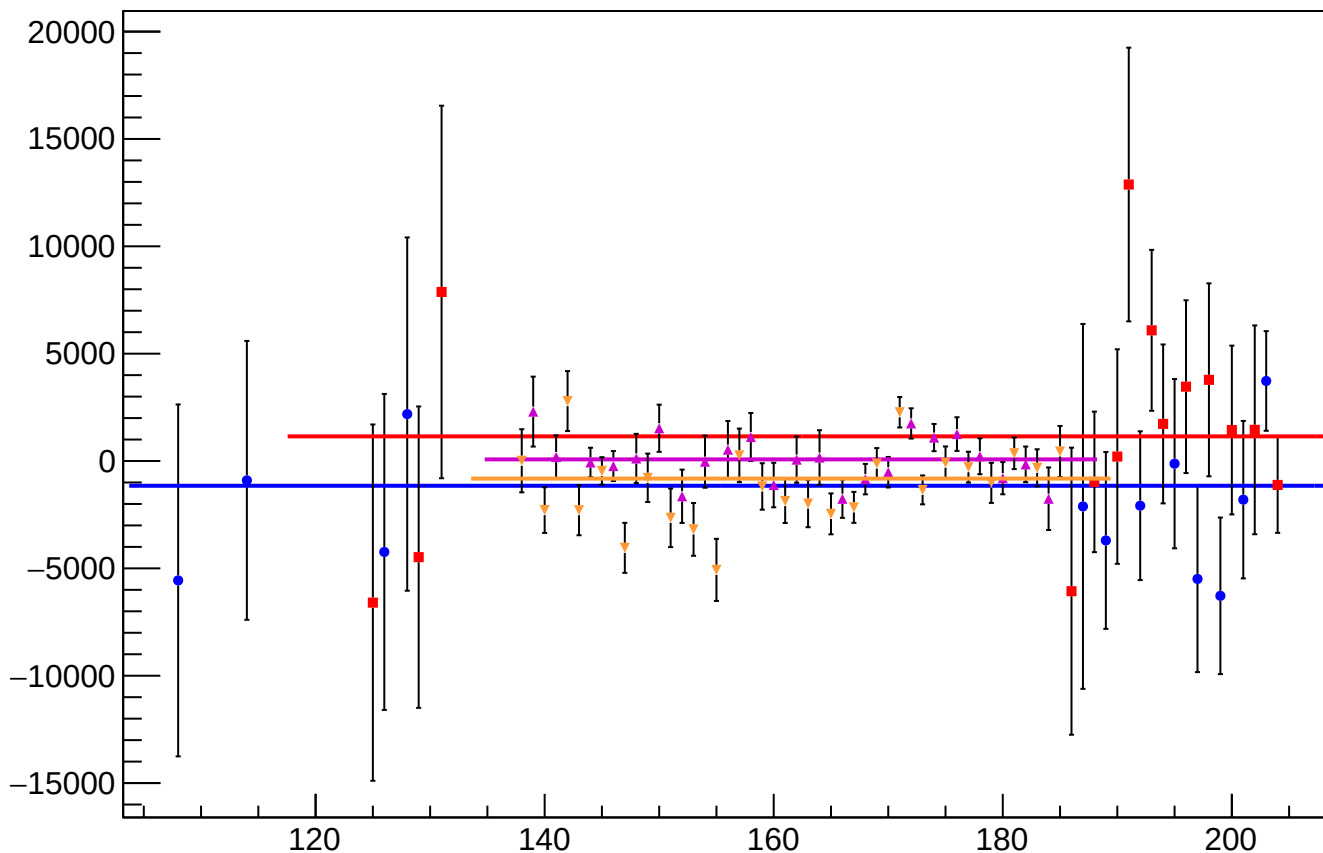
Right: 127.942 $\pm$ 0.021 χ^2 /NDF: 13025563.2/54

In: 97.422 $\pm$ 0.014 χ^2 /NDF: 7819964.5/47

Out: 97.499 $\pm$ 0.013 χ^2 /NDF: 9922304.0/54

All: 97.462 $\pm$ 0.010 χ^2 /NDF: 17742284.8/102

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -1152.544 ± 1212.155 χ^2/NDF : 8.6/11

Left Out: -818.877 ± 184.464 χ^2/NDF : 68.2/24

Right Out: 1147.783 ± 1123.851 χ^2/NDF : 10.6/13

Left In: 76.204 ± 186.651 χ^2/NDF : 28.3/22

Left: -376.610 ± 131.202 χ^2/NDF : 108.1/47

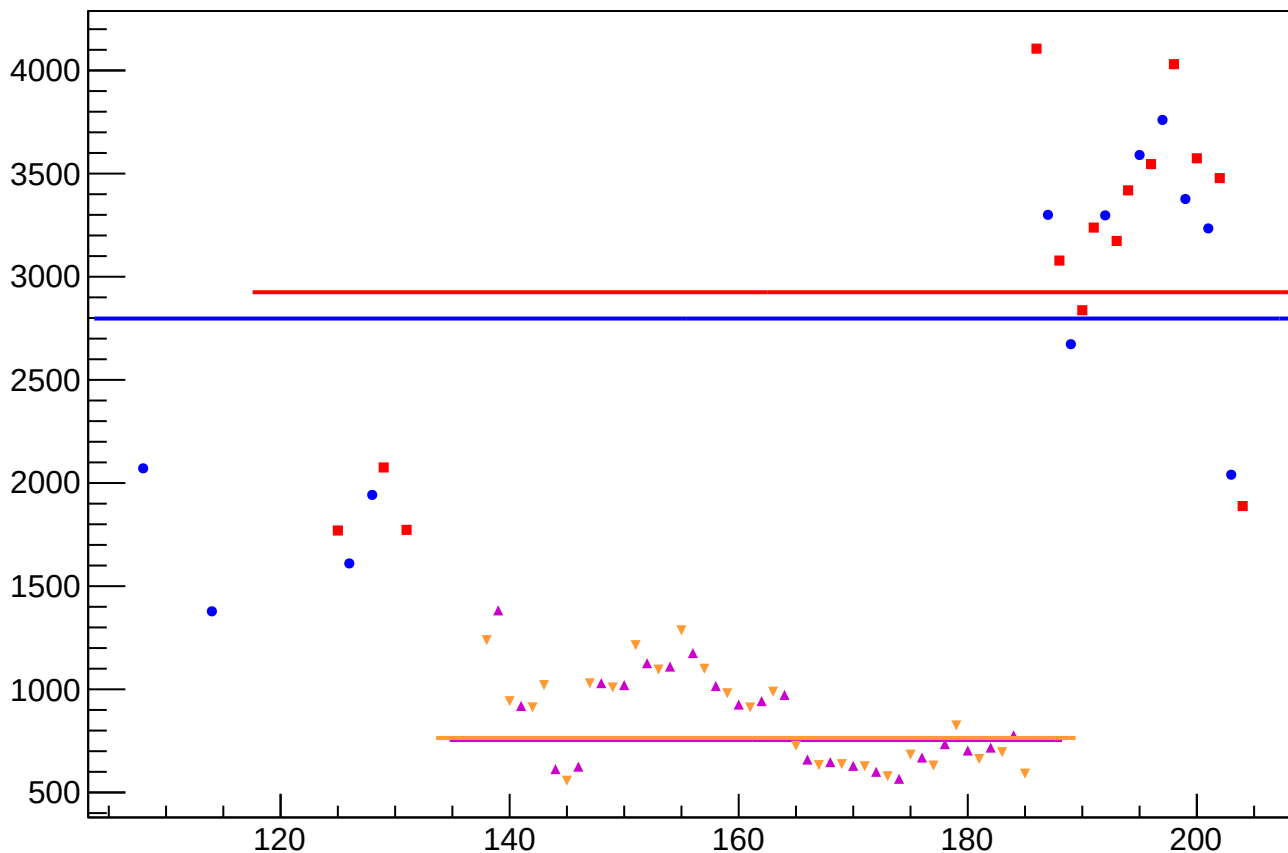
Right: 84.451 ± 824.134 χ^2/NDF : 21.1/25

In: 47.745 ± 184.477 χ^2/NDF : 37.9/34

Out: -767.284 ± 182.028 χ^2/NDF : 81.8/38

All: -365.214 ± 129.570 χ^2/NDF : 129.6/73

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2797.345 $\pm$ 0.857 χ^2 /NDF: 706346.1/11

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

Right Out: 2924.849 $\pm$ 0.795 χ^2 /NDF: 900327.8/13

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

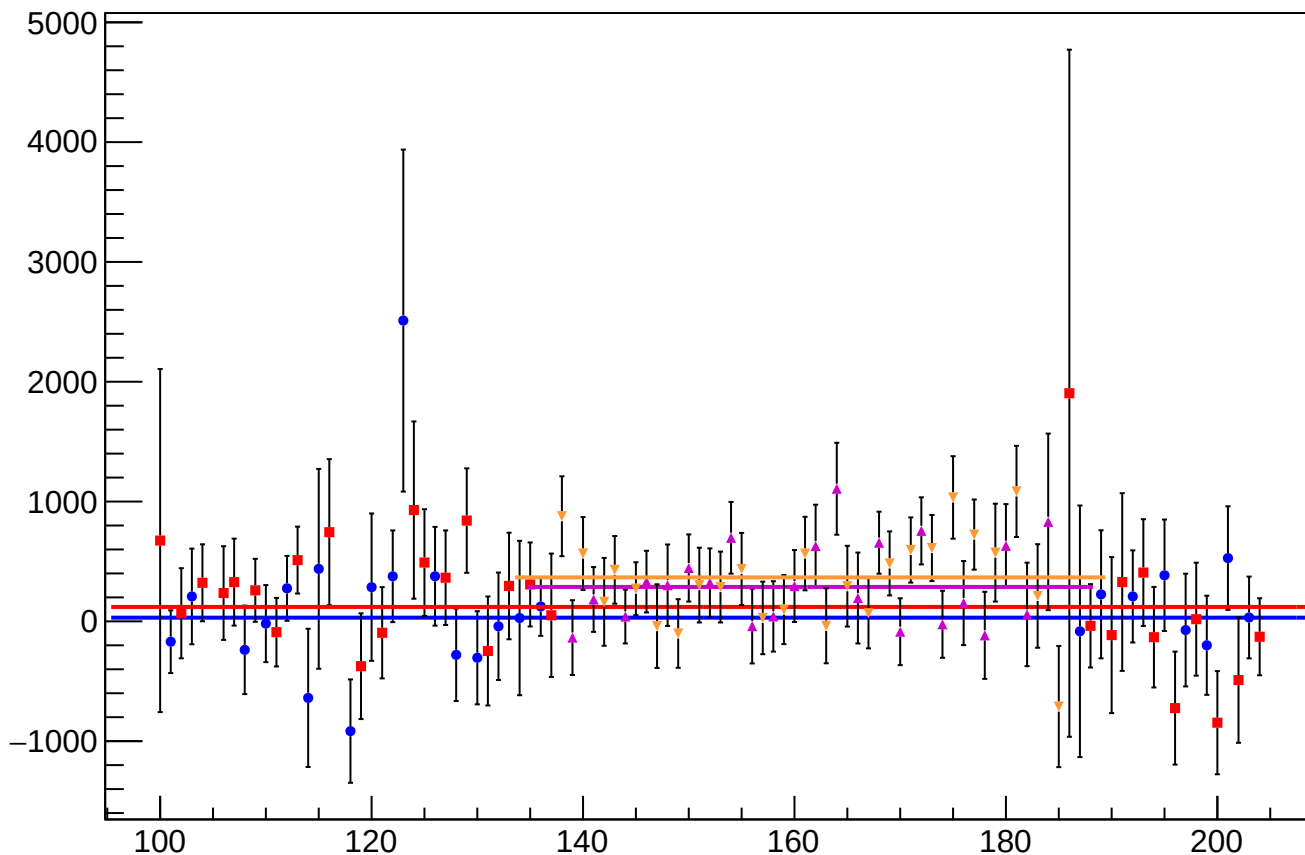
Right: 2865.910 $\pm$ 0.583 χ^2 /NDF: 1618573.7/25

In: 801.353 $\pm$ 0.130 χ^2 /NDF:8271207.2/34

Out: 820.959 $\pm$ 0.129 χ^2 /NDF:10414181.4/38

All: 811.287 $\pm$ 0.092 χ^2 /NDF: 18696835.3/73

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 30.807 ± 80.434 $\chi^2/\text{NDF}: 17.4/24$

Left Out: 367.028 ± 61.943 $\chi^2/\text{NDF}: 28.2/24$

Right Out: 120.316 ± 75.177 $\chi^2/\text{NDF}: 24.3/29$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

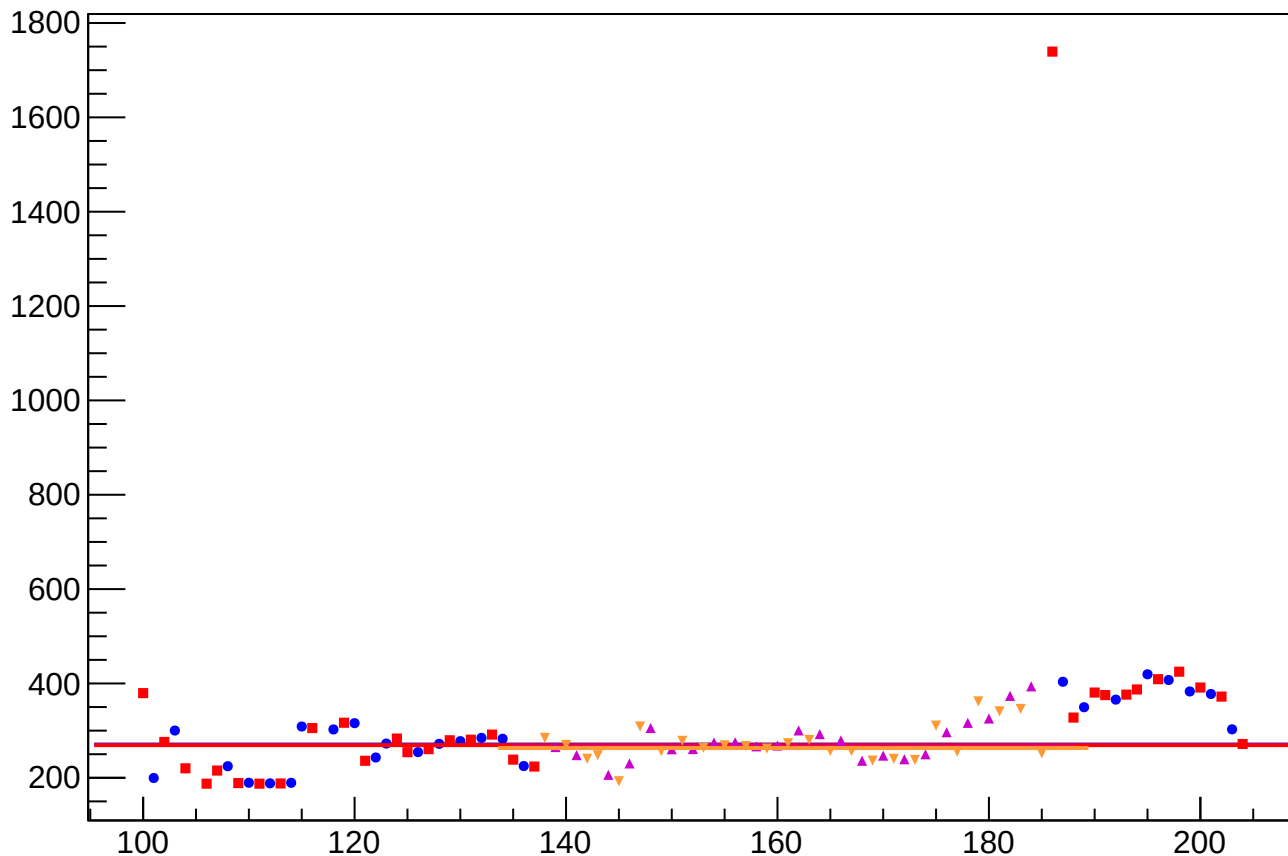
Right: 78.582 ± 54.923 $\chi^2/\text{NDF}: 42.4/54$

In: 187.564 ± 50.148 $\chi^2/\text{NDF}: 47.5/47$

Out: 267.263 ± 47.806 $\chi^2/\text{NDF}: 59.0/54$

All: 229.318 ± 34.602 $\chi^2/\text{NDF}: 107.8/102$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 270.450 $\pm$ 0.057 χ^2 /NDF: 1512409.2/24

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

Right Out: 269.267 $\pm$ 0.053 χ^2 /NDF: 2384675.5/29

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

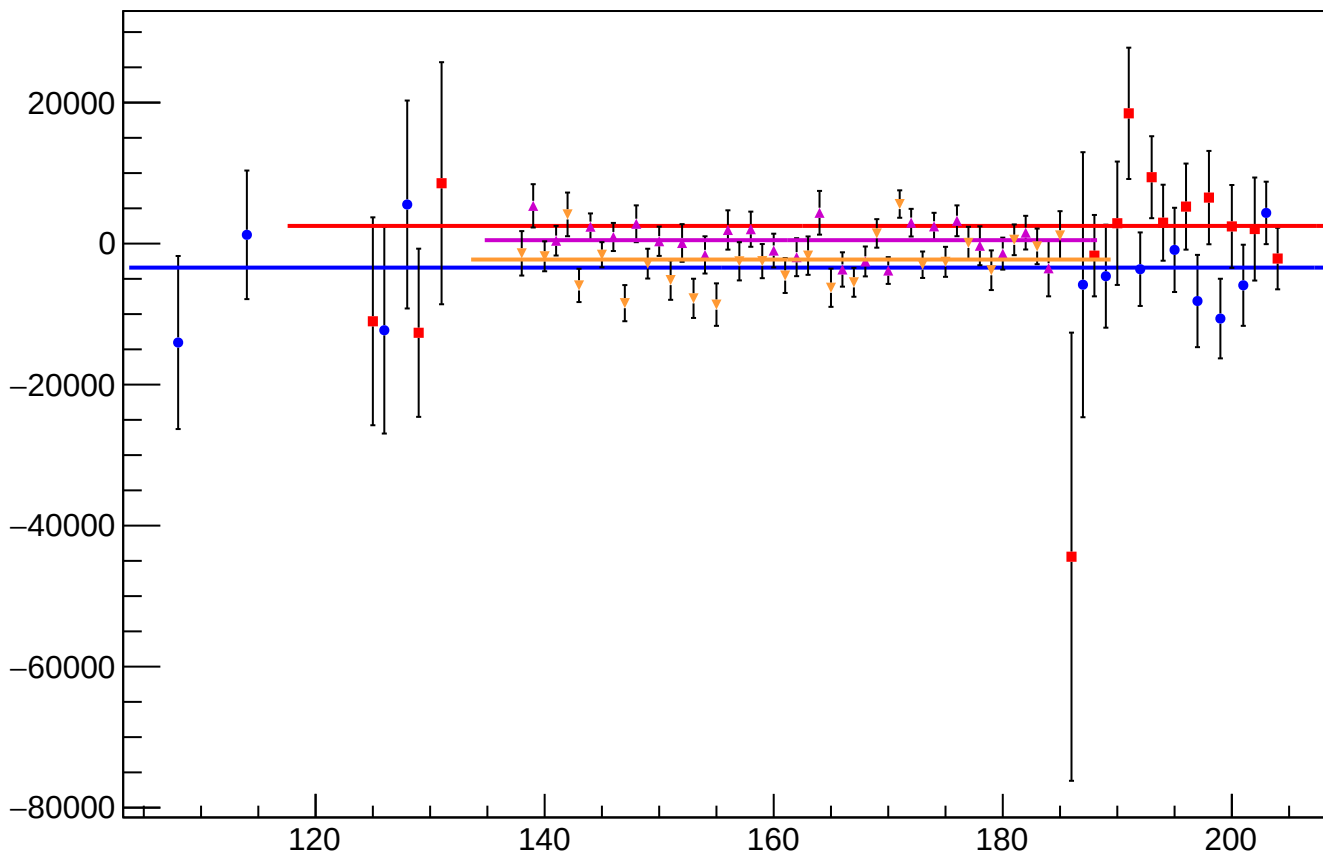
Right: 269.819 $\pm$ 0.039 χ^2 /NDF: 3897315.3/54

In: 267.071 $\pm$ 0.035 χ^2 /NDF: 2127205.5/47

Out: 265.596 $\pm$ 0.034 χ^2 /NDF: 3034911.2/54

All: 266.298 $\pm$ 0.024 χ^2 /NDF: 5163023.9/102

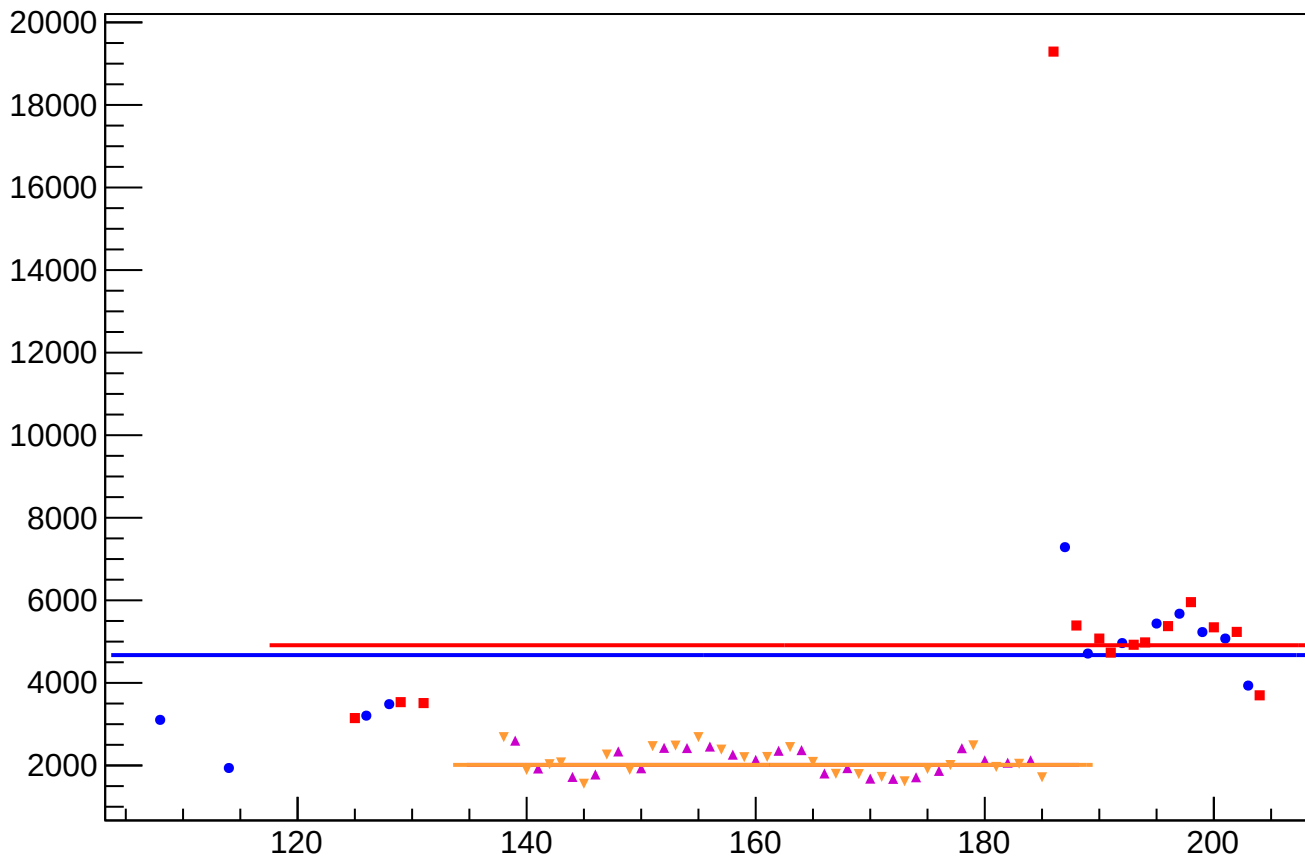
asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3406.259 ± 1999.173 $\chi^2/\text{NDF}: 7.4/11$
 Left Out: -2260.196 ± 475.336 $\chi^2/\text{NDF}: 52.3/24$
 Right Out: 2507.024 ± 1874.993 $\chi^2/\text{NDF}: 11.4/13$
 Left In: 485.590 ± 487.465 $\chi^2/\text{NDF}: 24.8/22$

Left: -921.890 ± 340.321 $\chi^2/\text{NDF}: 93.4/47$
 Right: -260.271 ± 1367.615 $\chi^2/\text{NDF}: 23.4/25$
 In: 267.186 ± 473.590 $\chi^2/\text{NDF}: 35.7/34$
 Out: -1972.314 ± 460.760 $\chi^2/\text{NDF}: 69.8/38$
 All: -883.310 ± 330.249 $\chi^2/\text{NDF}: 117.0/73$

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4673.450+/-1.414 χ^2/NDF : 455096.8/11

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

Right Out: 4912.210+/-1.326 χ^2/NDF : 724035.0/13

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

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

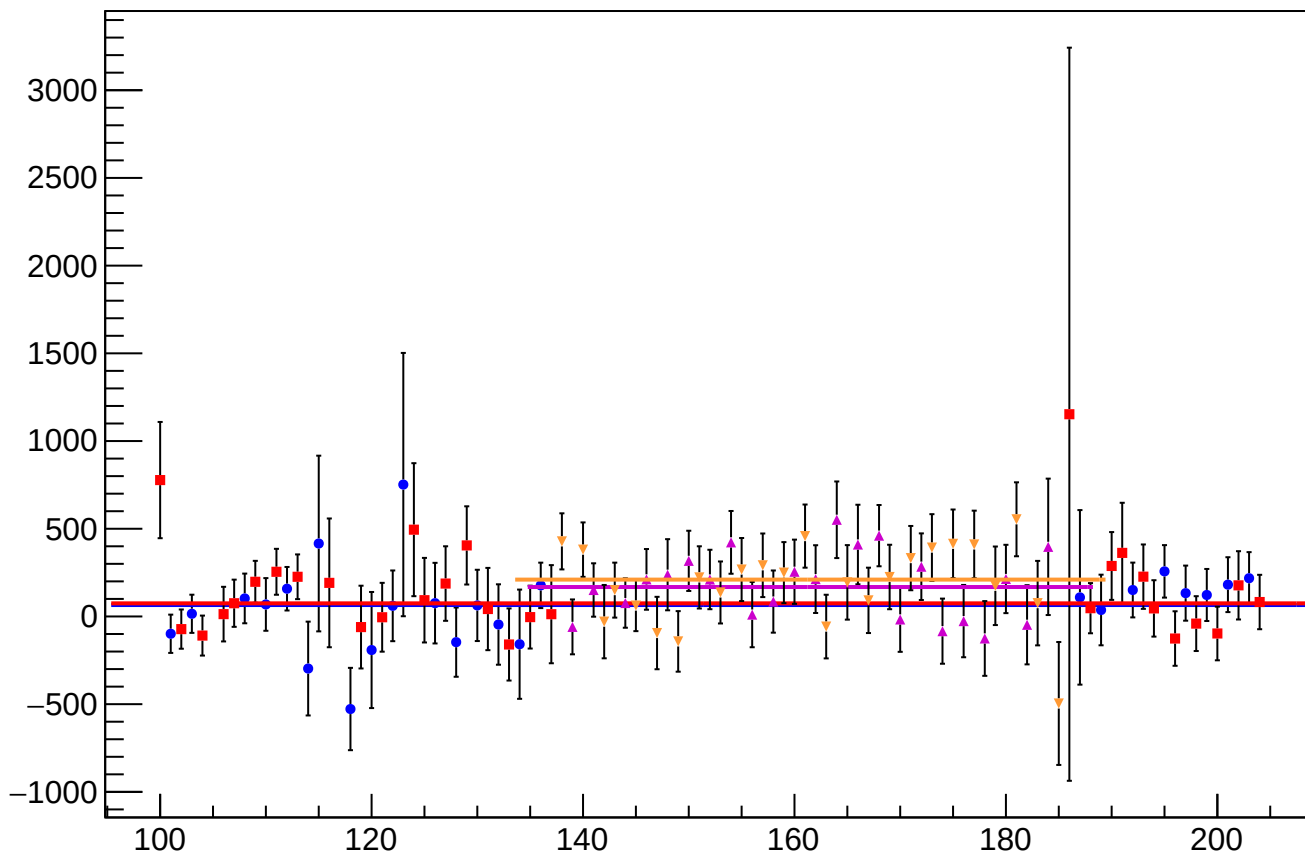
Right: 4800.476+/-0.967 χ^2/NDF : 1194308.6/25

In: 2162.531+/-0.335 χ^2/NDF : 4459716.5/34

Out: 2189.116+/-0.326 χ^2/NDF : 6049288.8/38

All: 2176.189+/-0.234 χ^2/NDF : 10512242.9/71

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 65.152+/-34.428 χ^2/NDF : 19.8/24

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

Right Out: 74.755+/-31.531 χ^2/NDF : 26.2/29

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

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

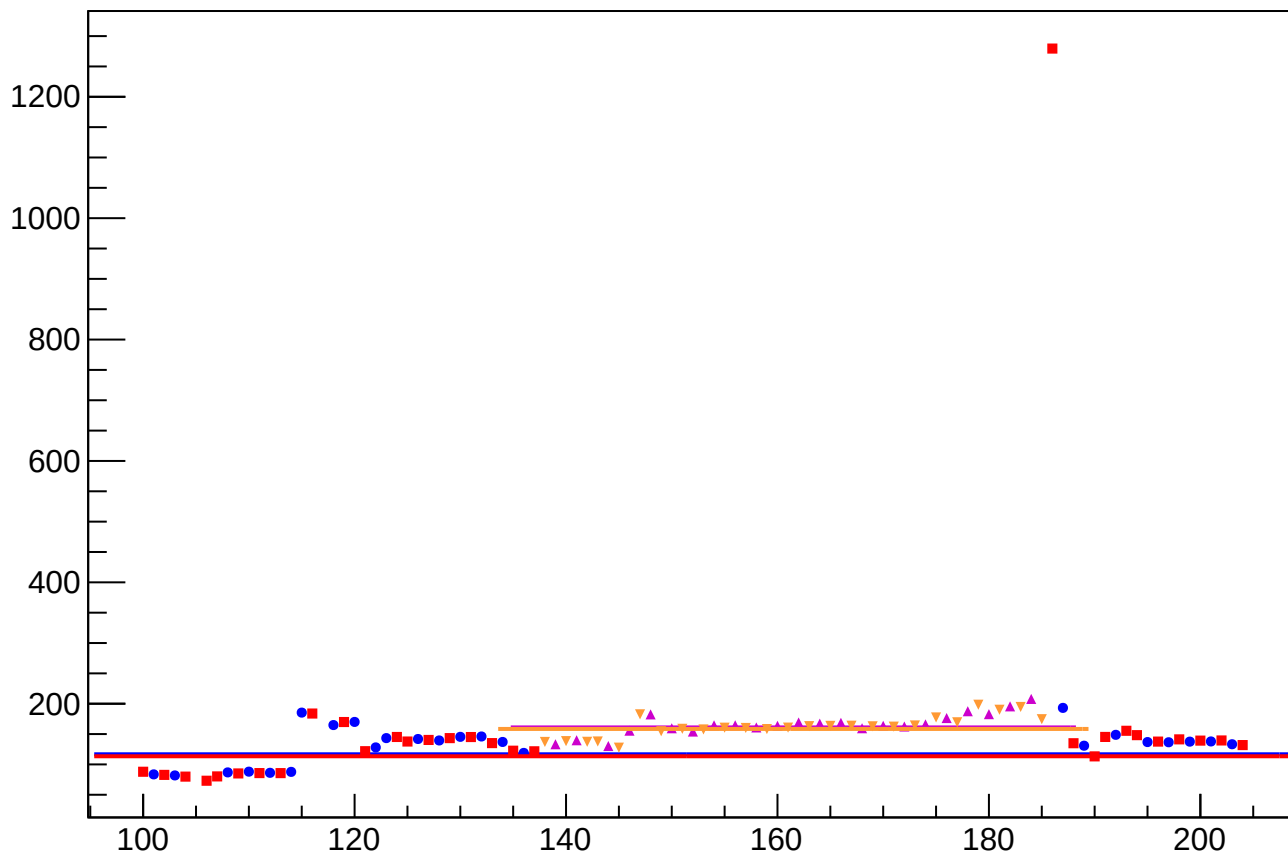
Right: 70.374+/-23.253 χ^2/NDF : 46.1/54

In: 110.486+/-25.728 χ^2/NDF :44.9/47

Out: 131.523+/-24.024 χ^2/NDF :61.5/54

All: 121.724+/-17.559 χ^2/NDF : 106.7/102

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 116.668 $\pm$ 0.024 χ^2 /NDF: 1320586.1/24

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

Right Out: 113.404 $\pm$ 0.022 χ^2 /NDF: 2371597.9/29

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

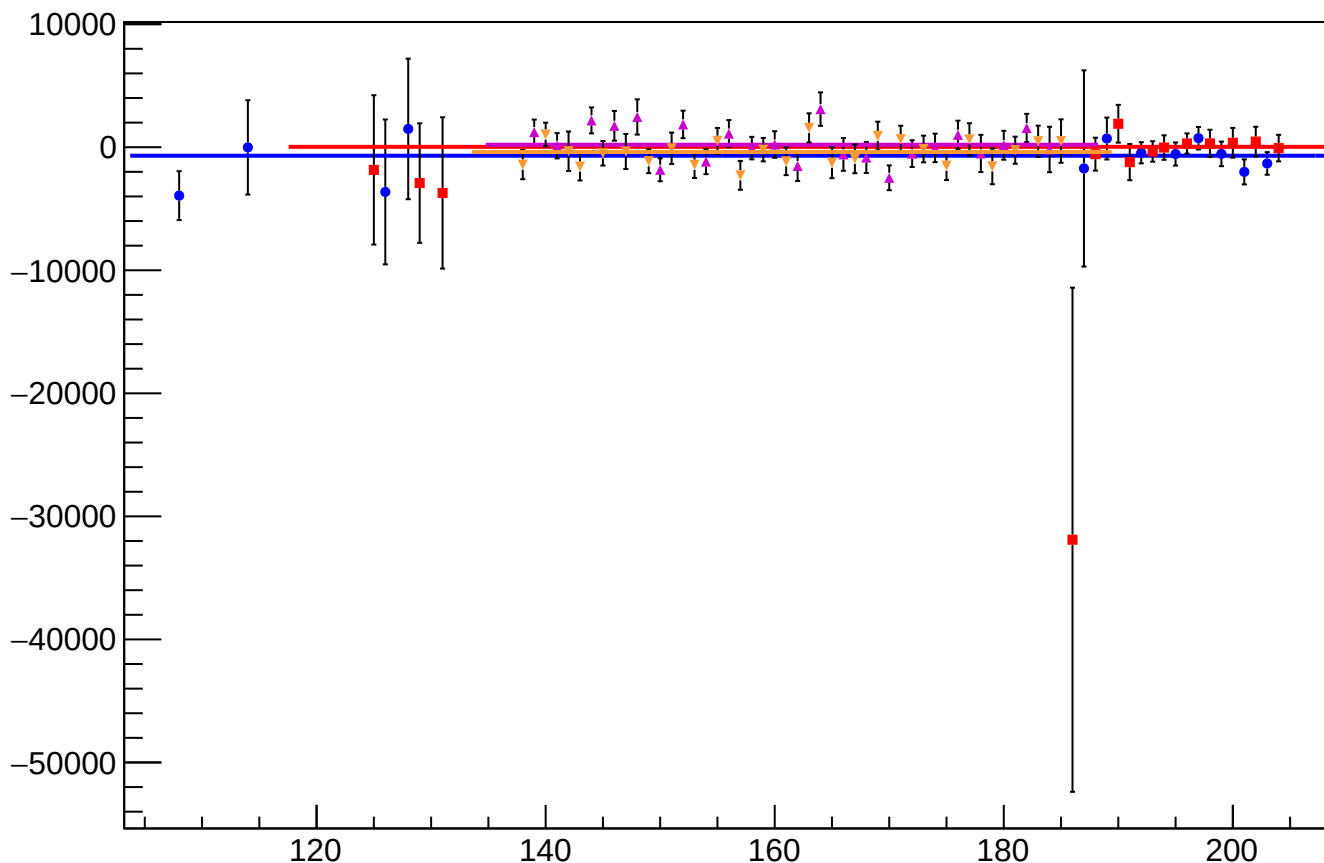
Right: 114.893 $\pm$ 0.016 χ^2 /NDF: 3701960.6/54

In: 136.219 $\pm$ 0.018 χ^2 /NDF: 3161130.1/47

Out: 132.295 $\pm$ 0.017 χ^2 /NDF: 4517441.6/54

All: 134.123 $\pm$ 0.012 χ^2 /NDF: 7703423.4/102

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -689.929+/-363.507 χ^2/NDF : 8.5/11

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

Right Out: 31.718+/-342.264 χ^2/NDF : 6.3/13

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

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

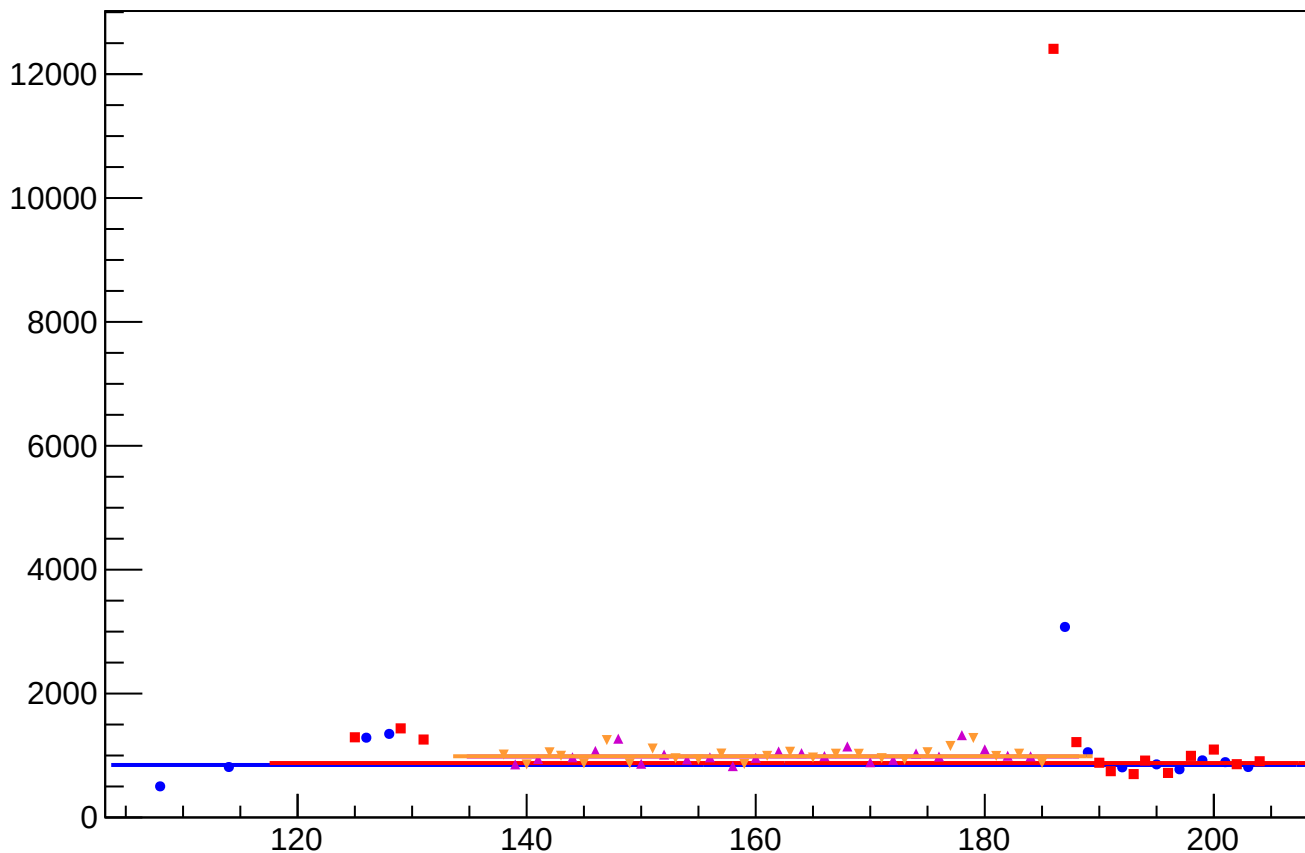
Right: -307.405+/-249.189 χ^2/NDF : 16.8/25

In: -64.609+/-198.801 χ^2/NDF : 48.2/34

Out: -253.952+/-191.945 χ^2/NDF : 25.3/38

All: -162.602+/-138.086 χ^2/NDF : 74.0/73

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 847.220 $\pm$ 0.257 χ^2 /NDF: 306158.5/11

Left Out: 987.869 $\pm$ 0.164 χ^2 /NDF: 376958.5/24

Right Out: 878.554 $\pm$ 0.242 χ^2 /NDF: 1079992.2/13

Left In: 983.893 $\pm$ 0.168 χ^2 /NDF: 416265.7/22

Left: 985.929 $\pm$ 0.117 χ^2 /NDF: 793511.2/47

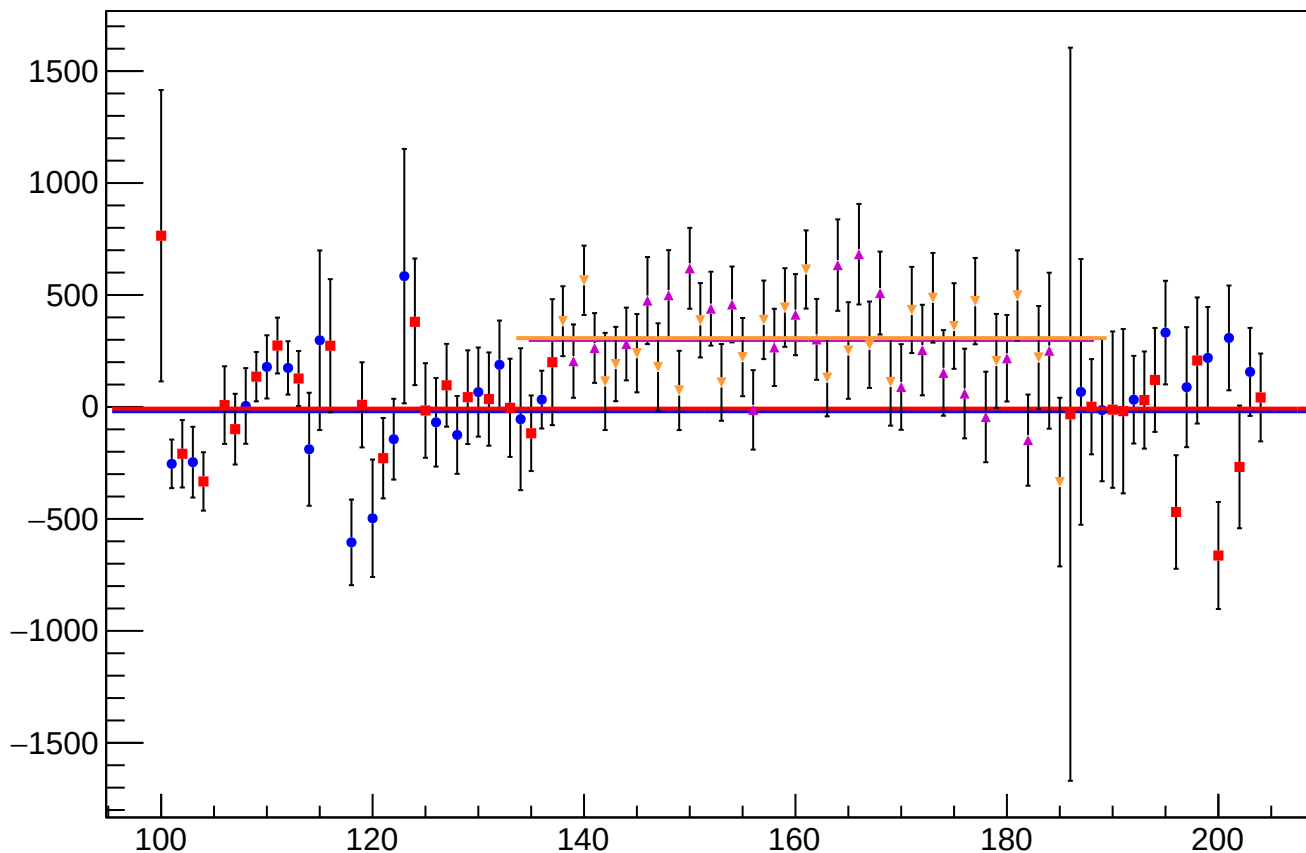
Right: 863.829 $\pm$ 0.176 χ^2 /NDF: 1394028.1/25

In: 943.015 $\pm$ 0.141 χ^2 /NDF: 920590.5/34

Out: 953.489 $\pm$ 0.136 χ^2 /NDF: 1596801.8/38

All: 948.435 $\pm$ 0.098 χ^2 /NDF: 2520265.4/73

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -19.080 ± 37.988 $\chi^2/\text{NDF}: 35.1/24$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -7.390 ± 35.293 $\chi^2/\text{NDF}: 36.2/29$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

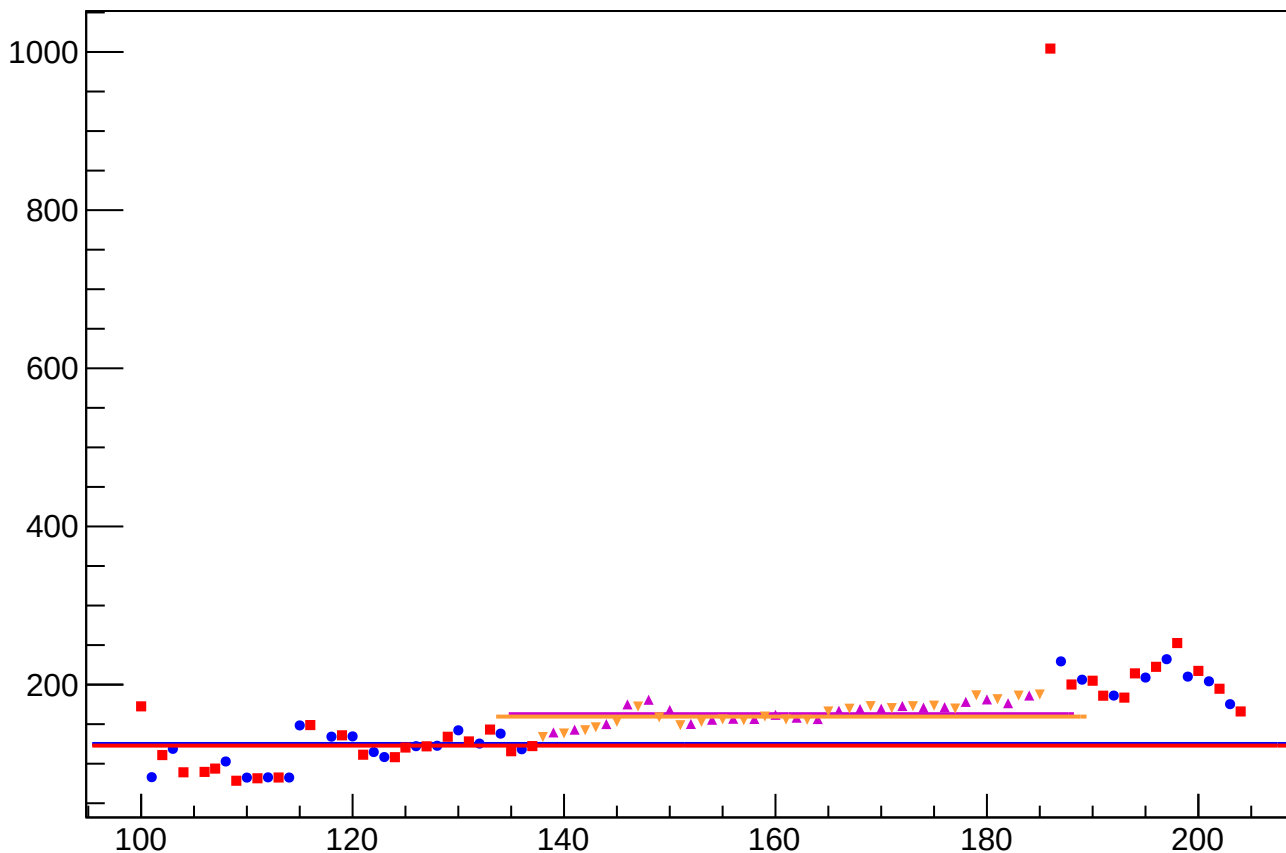
Right: -12.806 ± 25.856 $\chi^2/\text{NDF}: 71.3/54$

In: 135.835 ± 27.215 $\chi^2/\text{NDF}: 97.8/47$

Out: 141.446 ± 25.629 $\chi^2/\text{NDF}: 94.5/54$

All: 138.809 ± 18.658 $\chi^2/\text{NDF}: 192.3/102$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 124.955 $\pm$ 0.027 χ^2 /NDF: 2487964.4/24

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 122.895 $\pm$ 0.025 χ^2 /NDF: 3884971.7/29

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

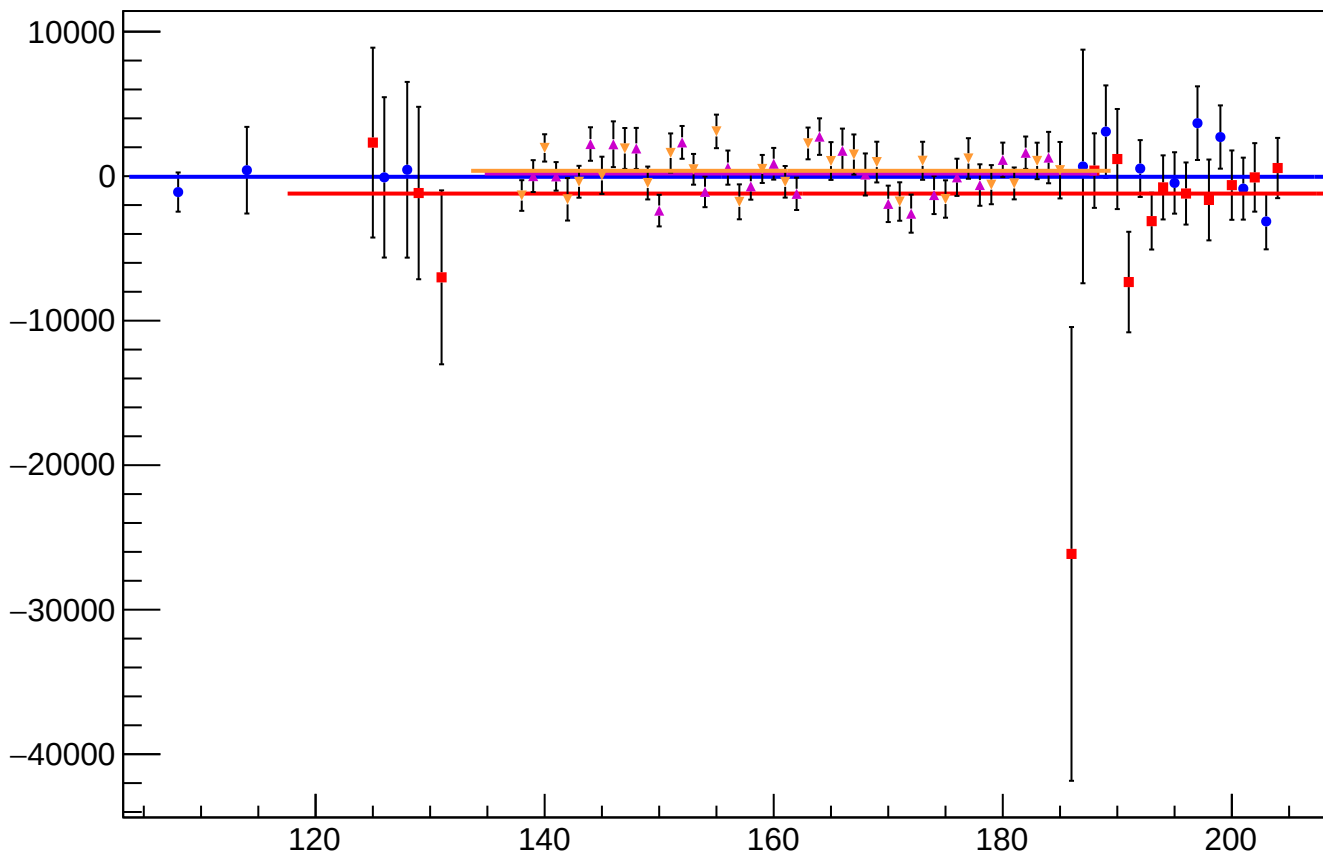
Right: 123.849 $\pm$ 0.018 χ^2 /NDF: 6376092.3/54

In: 143.281 $\pm$ 0.019 χ^2 /NDF:3643846.6/47

Out: 140.230 $\pm$ 0.018 χ^2 /NDF:5193464.7/54

All: 141.664 $\pm$ 0.013 χ^2 /NDF: 8850638.0/102

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -44.194 ± 681.200 χ^2/NDF : 8.1/11

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

Right Out: -1205.420 ± 747.917 χ^2/NDF : 9.7/13

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

Left: 279.847 ± 175.203 χ^2/NDF : 67.2/47

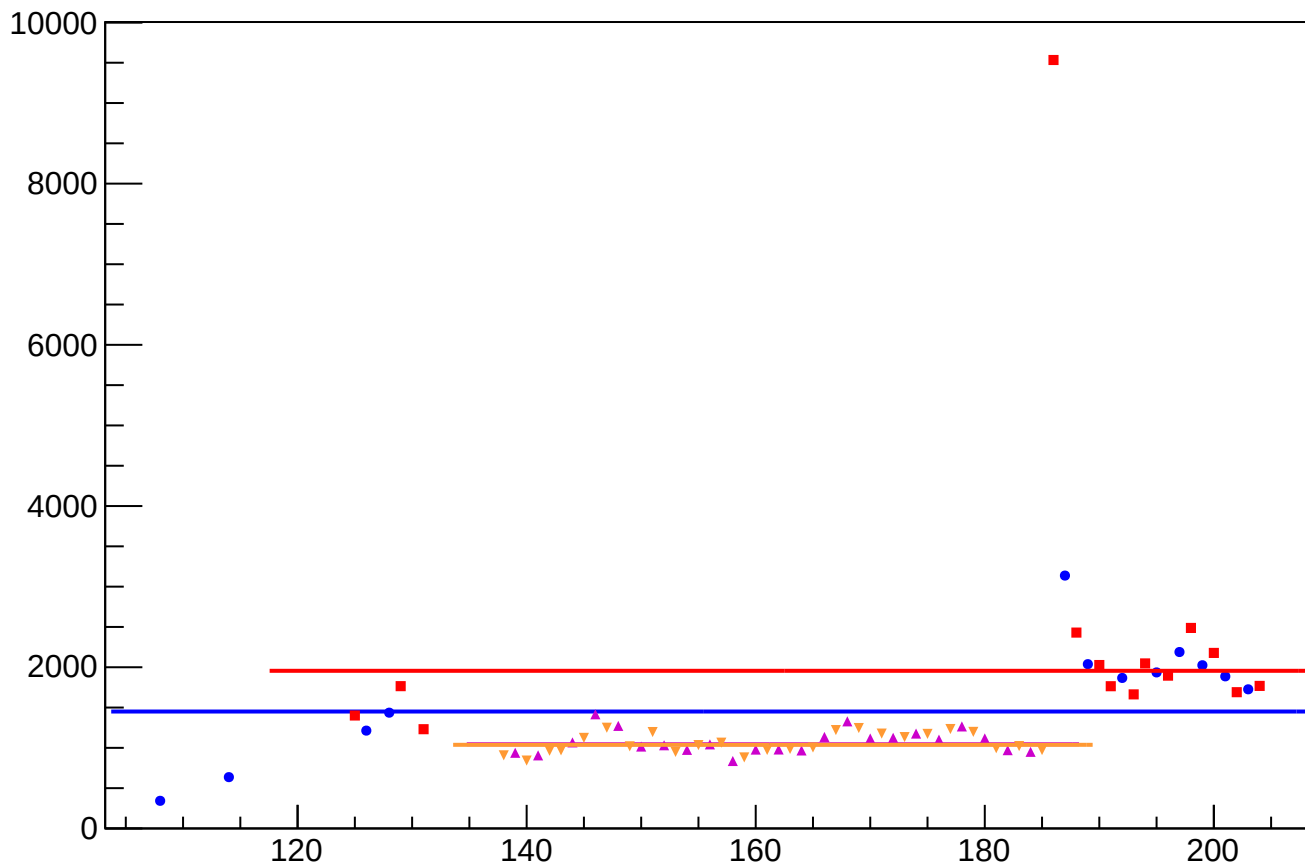
Right: -570.714 ± 503.620 χ^2/NDF : 19.1/25

In: 155.696 ± 236.559 χ^2/NDF : 44.7/34

Out: 218.993 ± 231.556 χ^2/NDF : 44.2/38

All: 188.021 ± 165.475 χ^2/NDF : 88.9/73

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1450.728 $\pm$ 0.482 χ^2/NDF : 2261996.3/11

Left Out: 1037.689 $\pm$ 0.172 χ^2/NDF : 494981.4/24

Right Out: 1955.886 $\pm$ 0.529 χ^2/NDF : 765559.3/13

Left In: 1044.746 $\pm$ 0.178 χ^2/NDF : 543315.5/22

Left: 1041.093 $\pm$ 0.124 χ^2/NDF : 1039107.0/47

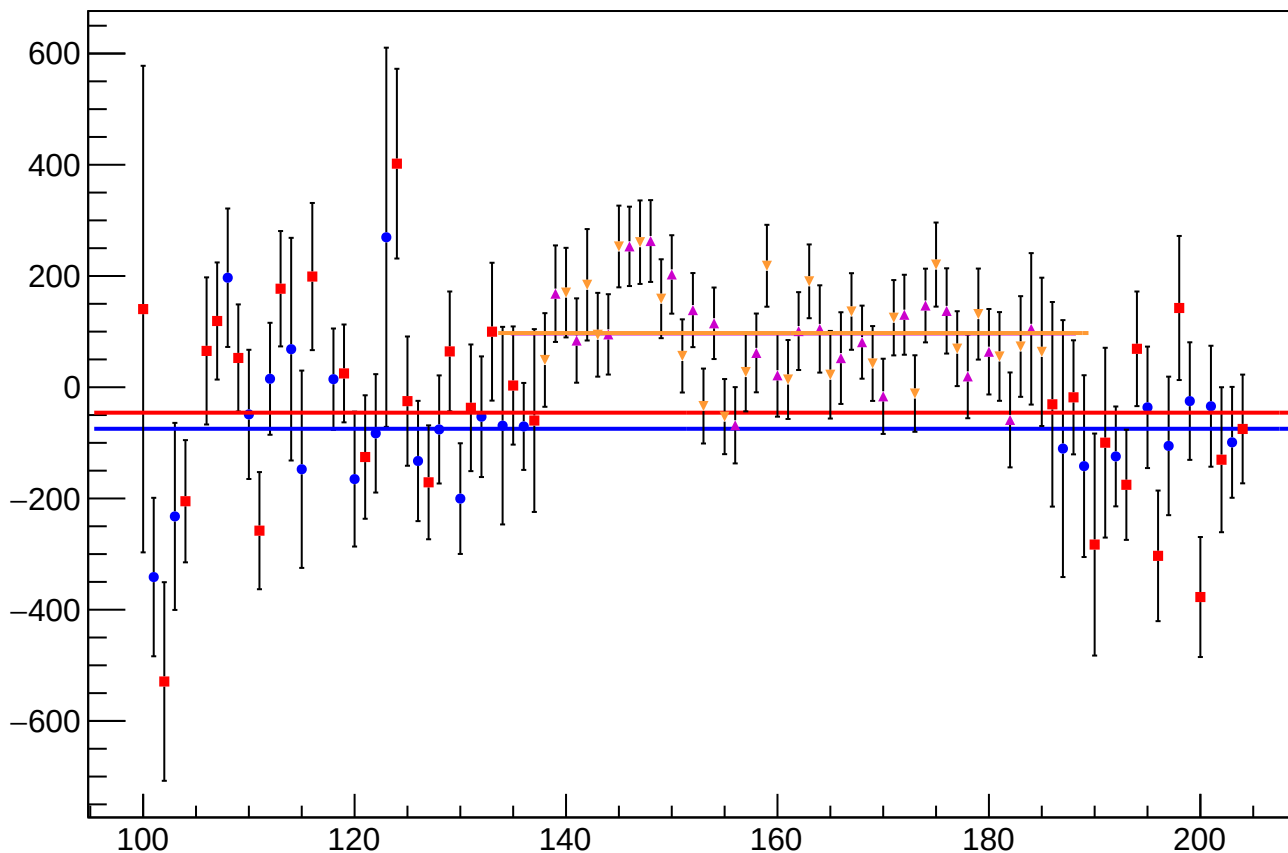
Right: 1679.775 $\pm$ 0.356 χ^2/NDF : 3526248.2/25

In: 1093.705 $\pm$ 0.167 χ^2/NDF : 3430028.1/34

Out: 1125.701 $\pm$ 0.164 χ^2/NDF : 3985959.6/38

All: 1110.045 $\pm$ 0.117 χ^2/NDF : 7434672.3/73

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -74.701 ± 23.312 $\chi^2/\text{NDF}: 16.2/24$

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

Right Out: -45.745 ± 21.593 $\chi^2/\text{NDF}: 59.5/29$

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

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

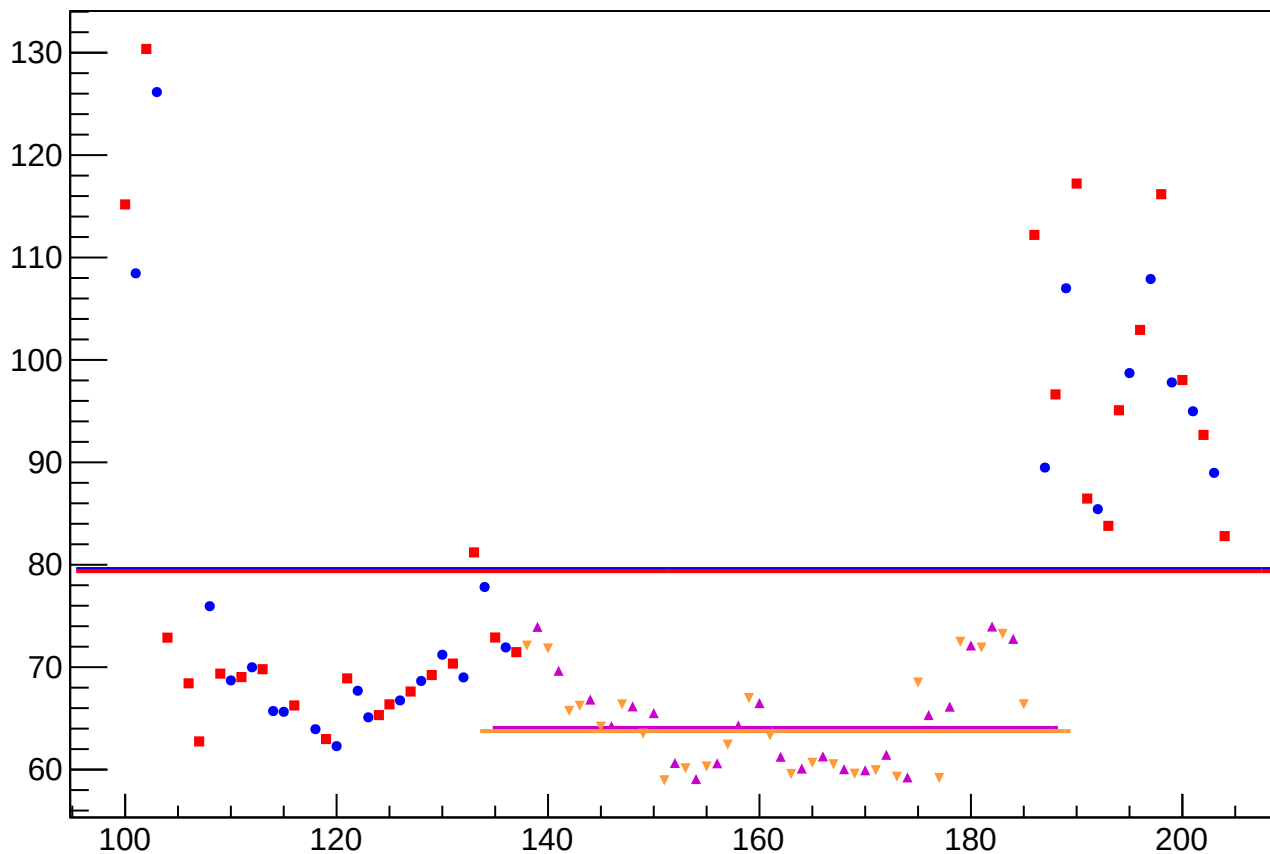
Right: -59.116 ± 15.841 $\chi^2/\text{NDF}: 76.6/54$

In: 44.773 ± 12.832 $\chi^2/\text{NDF}: 83.1/47$

Out: 51.341 ± 12.252 $\chi^2/\text{NDF}: 125.4/54$

All: 48.209 ± 8.861 $\chi^2/\text{NDF}: 208.6/102$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 79.583 $\pm$ 0.016 χ^2 /NDF: 879660.1/24

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

Right Out: 79.377 $\pm$ 0.015 χ^2 /NDF: 1091071.4/29

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

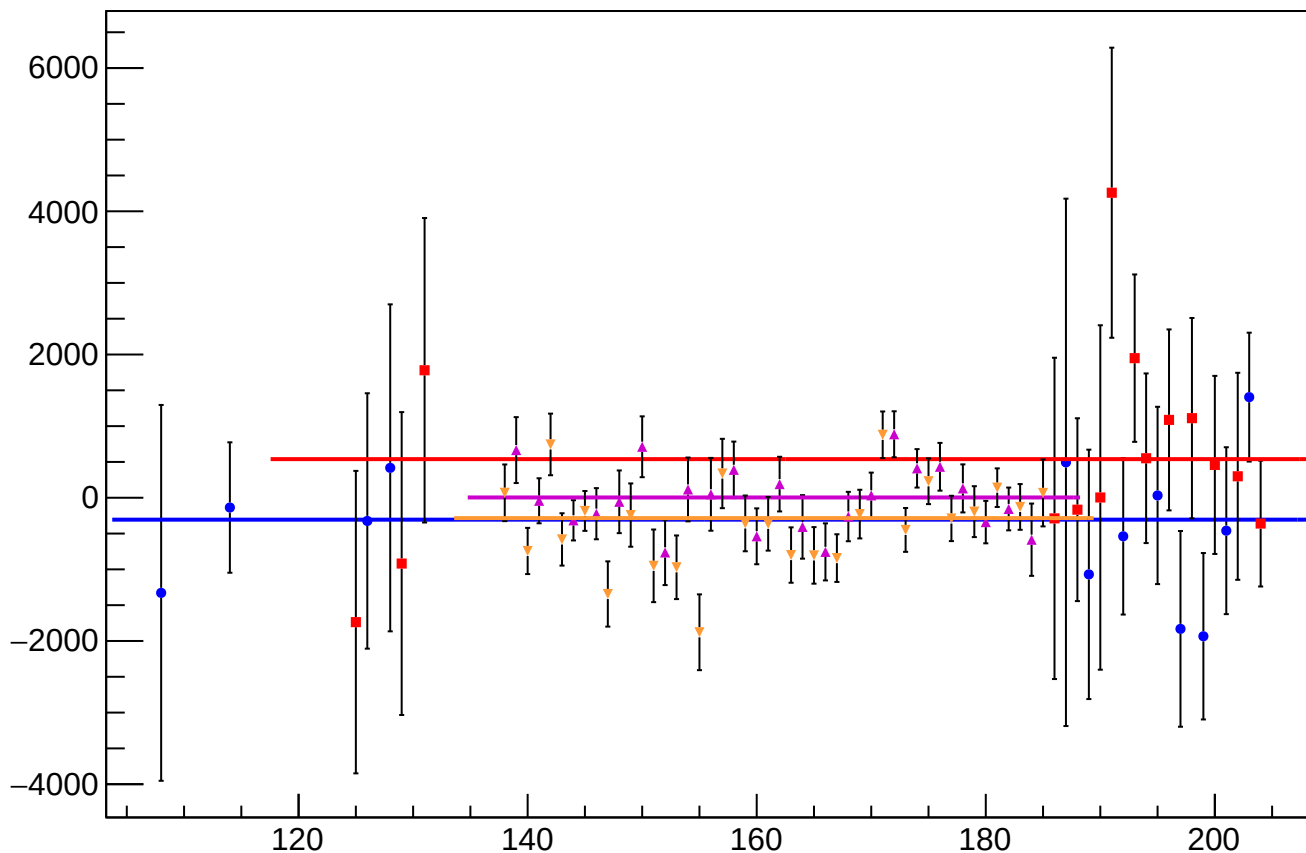
Right: 79.472 $\pm$ 0.011 χ^2 /NDF: 1970814.9/54

In: 68.769 $\pm$ 0.009 χ^2 /NDF: 1661732.8/47

Out: 68.789 $\pm$ 0.009 χ^2 /NDF: 1993152.9/54

All: 68.780 $\pm$ 0.006 χ^2 /NDF: 3654888.4/102

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -305.993 ± 377.989 $\chi^2/\text{NDF}: 7.5/11$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 539.202 ± 380.677 $\chi^2/\text{NDF}: 8.7/13$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

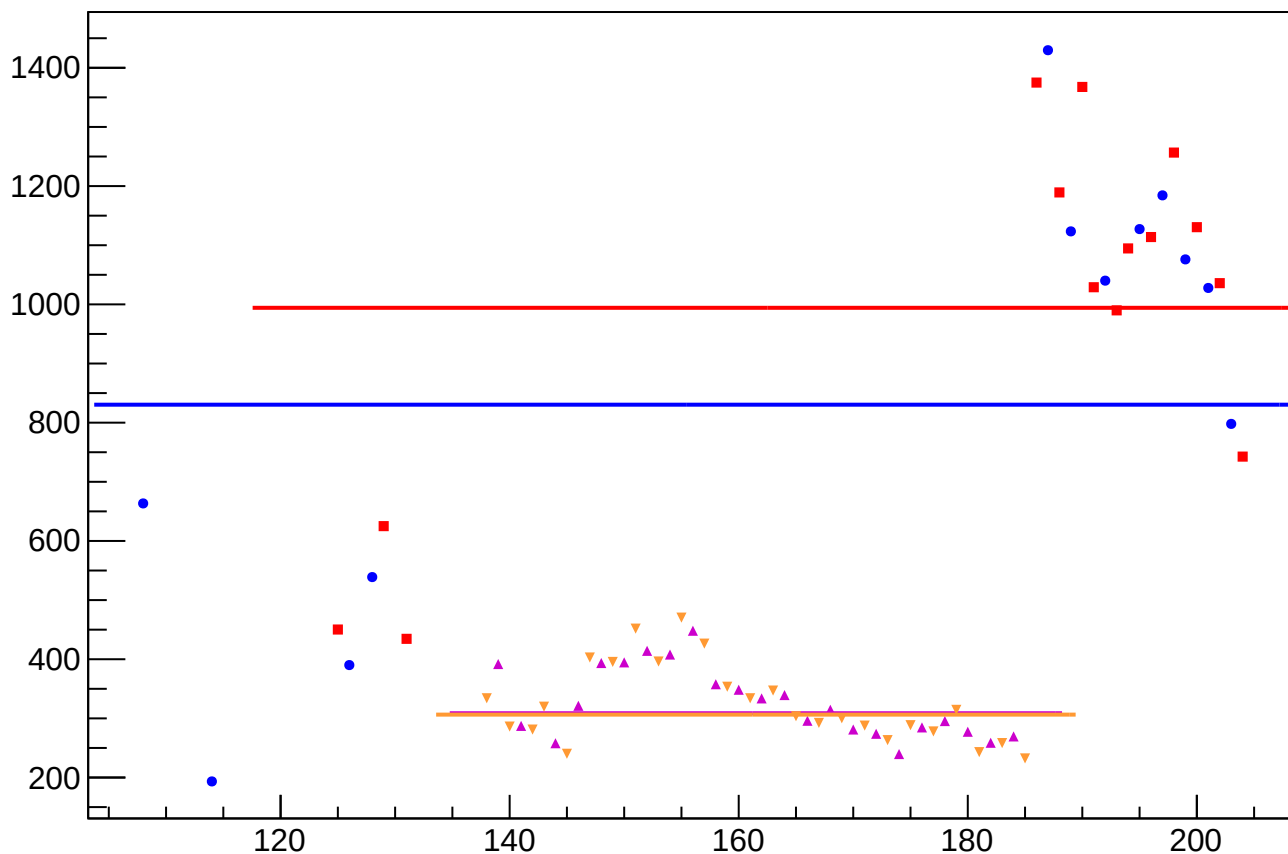
Right: 113.611 ± 268.224 $\chi^2/\text{NDF}: 18.7/25$

In: -7.732 ± 73.645 $\chi^2/\text{NDF}: 40.5/34$

Out: -255.301 ± 71.440 $\chi^2/\text{NDF}: 68.3/38$

All: -135.278 ± 51.278 $\chi^2/\text{NDF}: 114.6/73$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 830.391+/-0.267 χ^2/NDF : 1723319.3/11

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

Right Out: 994.203+/-0.269 χ^2/NDF : 777758.4/13

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

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

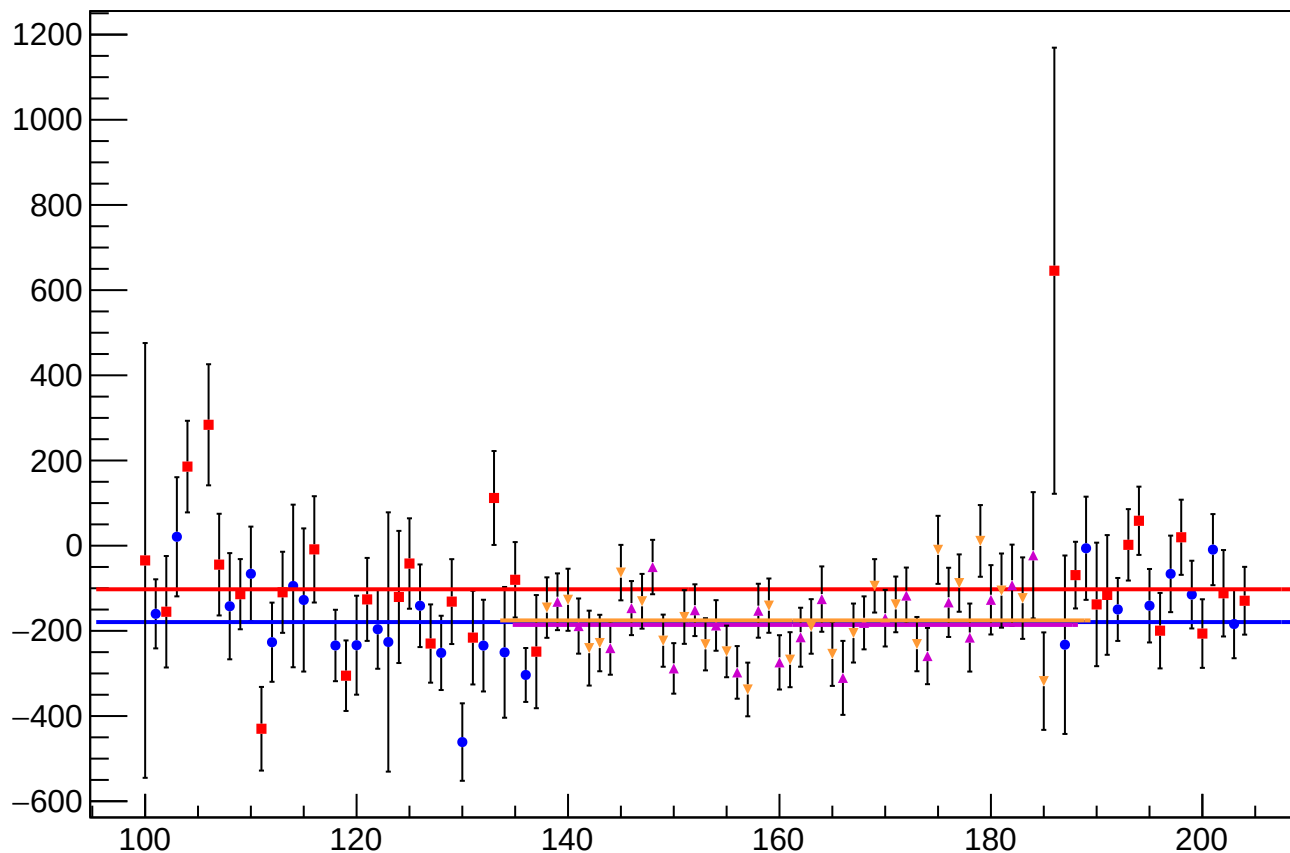
Right: 911.716+/-0.190 χ^2/NDF : 2687563.2/25

In: 328.529+/-0.052 χ^2/NDF :6391022.9/34

Out: 330.588+/-0.051 χ^2/NDF :8293145.2/38

All: 329.590+/-0.036 χ^2/NDF : 14684973.0/73

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -179.361 ± 19.624 $\chi^2/\text{NDF}: 28.1/24$

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

Right Out: -102.391 ± 18.661 $\chi^2/\text{NDF}: 54.0/29$

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

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

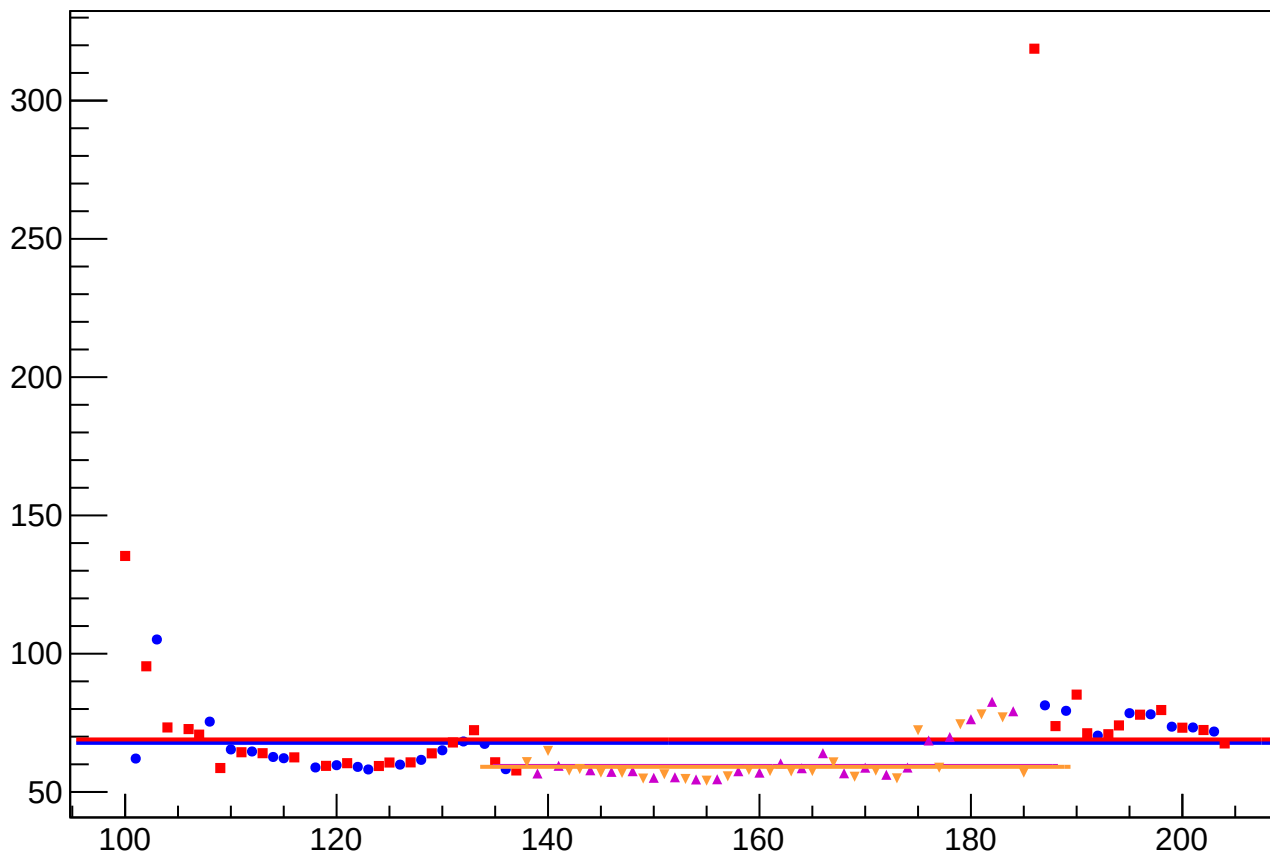
Right: -138.942 ± 13.523 $\chi^2/\text{NDF}: 90.2/54$

In: -183.725 ± 11.565 $\chi^2/\text{NDF}: 51.8/47$

Out: -149.524 ± 11.119 $\chi^2/\text{NDF}: 98.5/54$

All: -165.952 ± 8.015 $\chi^2/\text{NDF}: 154.8/102$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.767 $\pm$ 0.014 χ^2 /NDF: 400293.3/24

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

Right Out: 68.991 $\pm$ 0.013 χ^2 /NDF: 839531.3/29

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

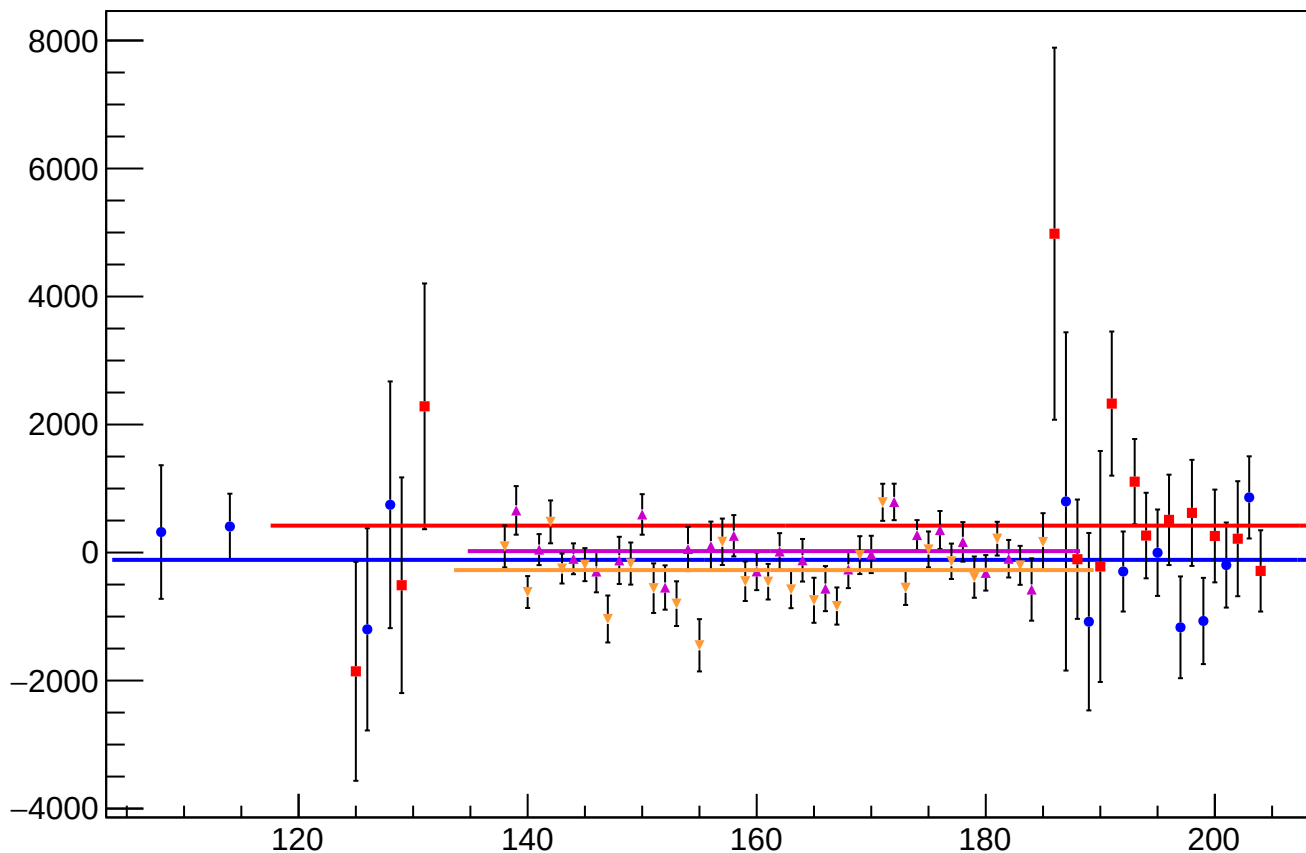
Right: 68.410 $\pm$ 0.010 χ^2 /NDF: 1243914.1/54

In: 62.313 $\pm$ 0.008 χ^2 /NDF: 1010039.4/47

Out: 62.611 $\pm$ 0.008 χ^2 /NDF: 1571762.4/54

All: 62.468 $\pm$ 0.006 χ^2 /NDF: 2582495.2/102

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -114.170 ± 227.676 χ^2/NDF : 8.7/11

Left Out: -274.091 ± 60.799 χ^2/NDF : 53.9/24

Right Out: 420.655 ± 243.187 χ^2/NDF : 11.3/13

Left In: 22.631 ± 63.643 χ^2/NDF : 28.9/22

Left: -132.507 ± 43.963 χ^2/NDF : 94.2/47

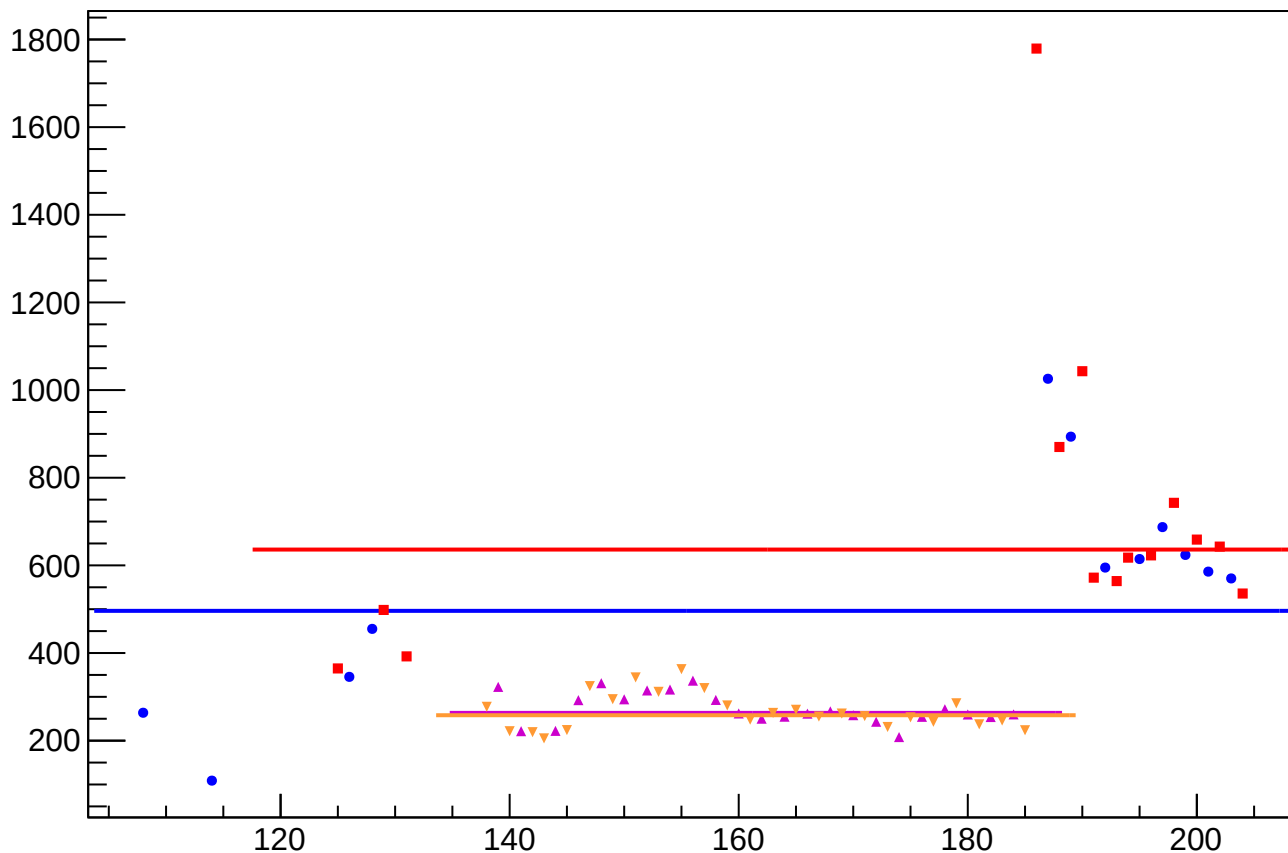
Right: 135.644 ± 166.205 χ^2/NDF : 22.6/25

In: 12.716 ± 61.293 χ^2/NDF : 37.9/34

Out: -233.220 ± 58.984 χ^2/NDF : 72.9/38

All: -114.973 ± 42.501 χ^2/NDF : 119.2/73

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 496.216+/-0.161 χ^2/NDF : 1868409.0/11

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

Right Out: 636.081+/-0.172 χ^2/NDF : 750359.7/13

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

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

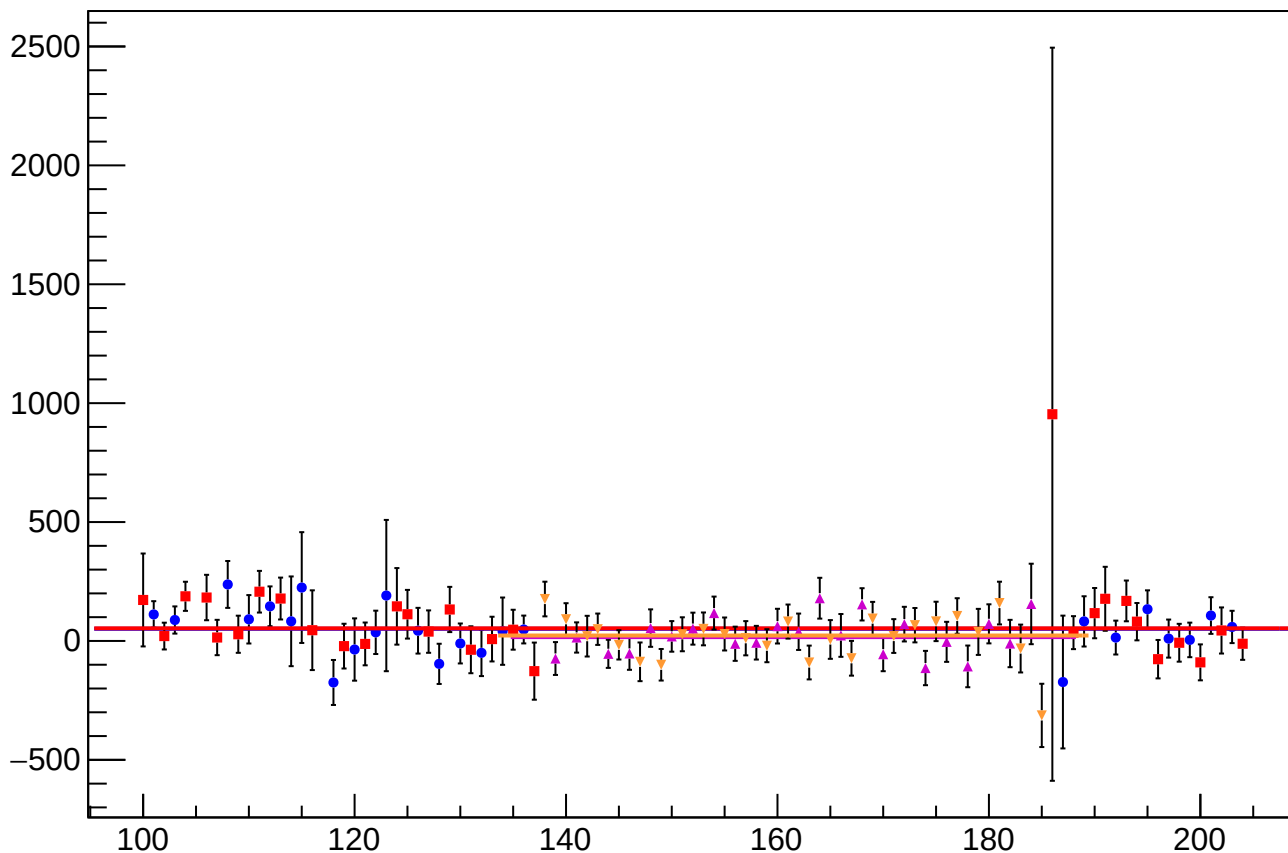
Right: 561.547+/-0.118 χ^2/NDF : 2971314.8/25

In: 280.270+/-0.043 χ^2/NDF : 4393819.6/34

Out: 280.280+/-0.042 χ^2/NDF : 6023972.7/38

All: 280.275+/-0.030 χ^2/NDF : 10417792.3/73

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 51.151 $\pm$ 17.295 χ^2 /NDF: 21.5/24

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

Right Out: 52.988 $\pm$ 16.107 χ^2 /NDF: 30.0/29

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

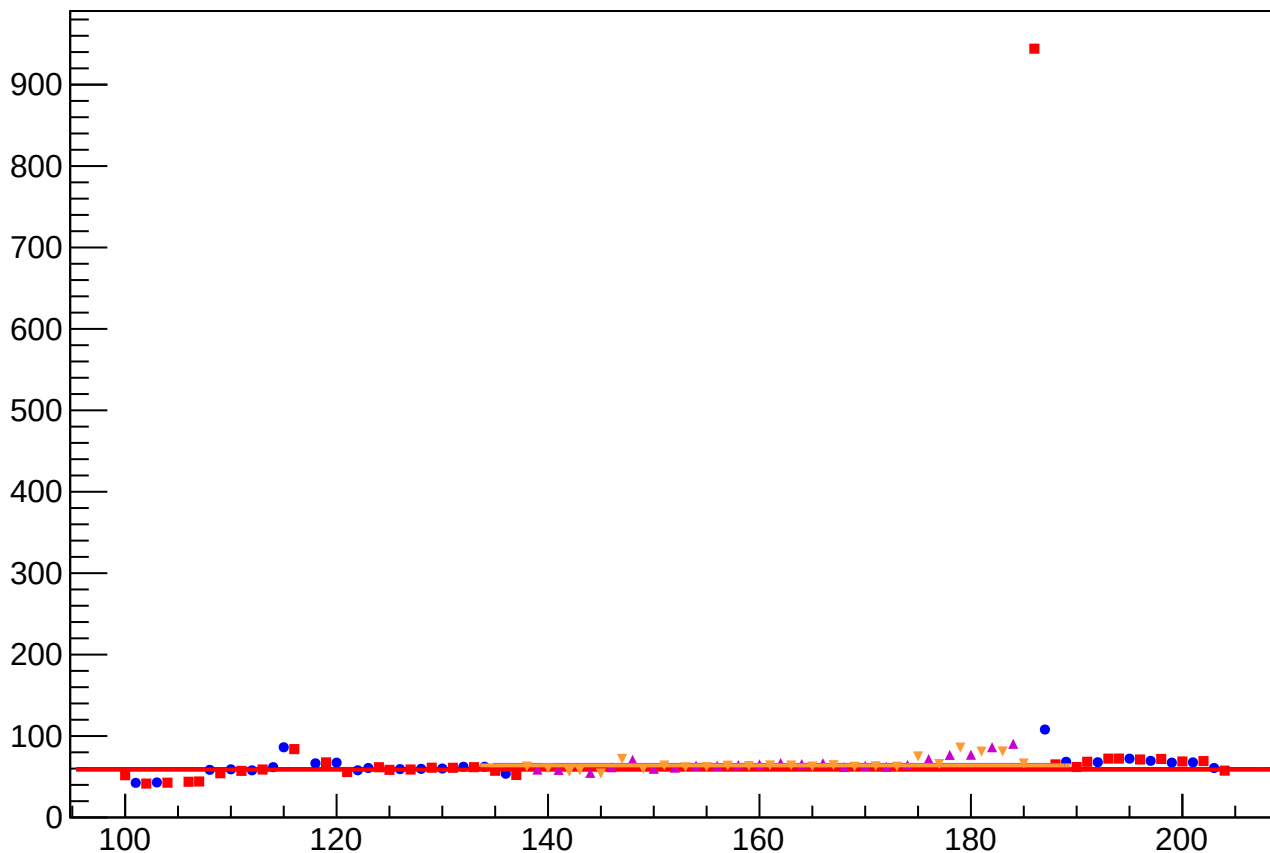
Right: 52.135 $\pm$ 11.787 χ^2 /NDF: 51.5/54

In: 31.801 $\pm$ 11.555 χ^2 /NDF:47.1/47

Out: 36.827 $\pm$ 10.965 χ^2 /NDF:60.8/54

All: 34.446 $\pm$ 7.954 χ^2 /NDF: 108.0/102

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.287+/-0.012 χ^2/NDF : 650862.5/24

Left Out: 63.920+/-0.011 χ^2/NDF : 395410.4/24

Right Out: 58.728+/-0.011 χ^2/NDF : 1493814.3/29

Left In: 64.511+/-0.011 χ^2/NDF : 370515.2/22

Left: 64.204+/-0.008 χ^2/NDF : 767426.6/47

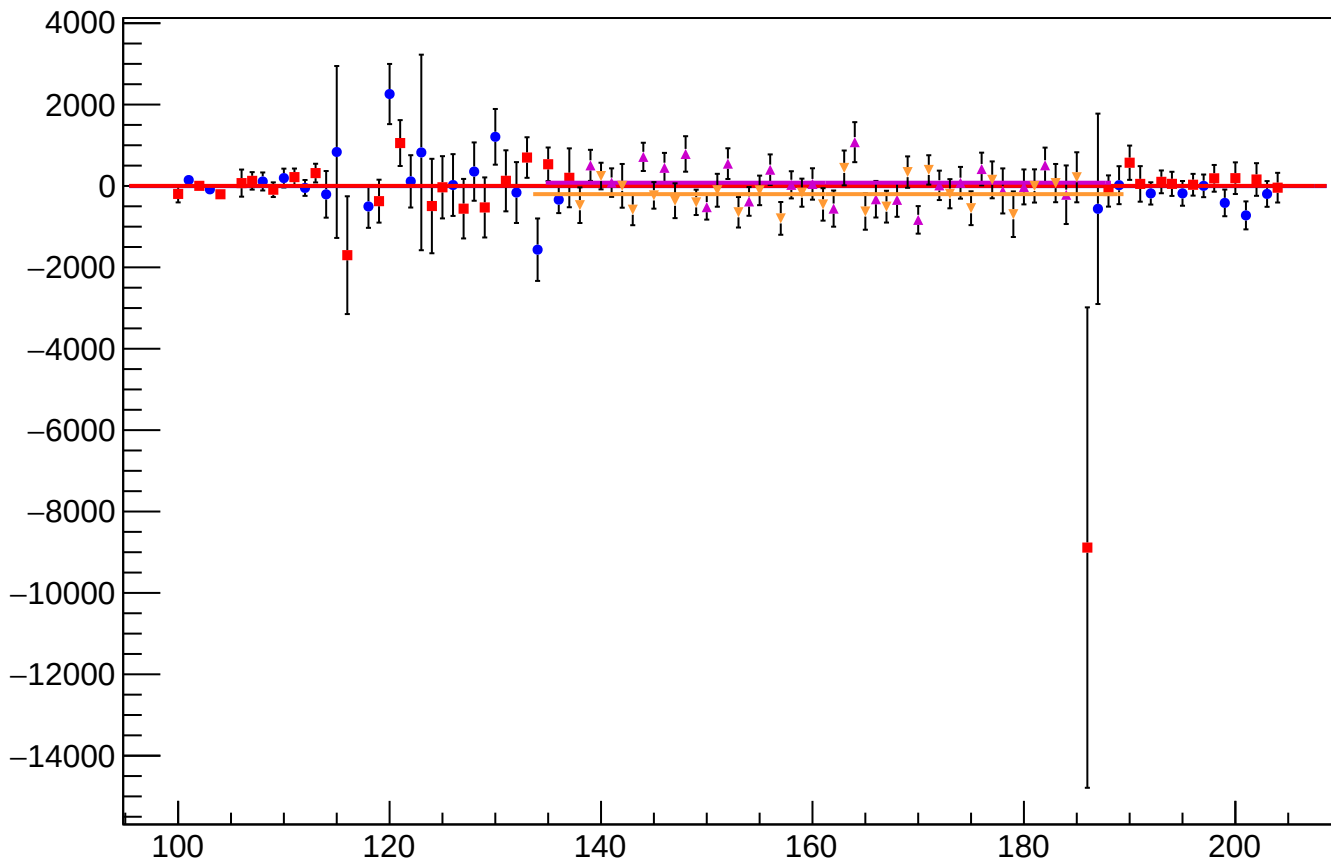
Right: 58.987+/-0.008 χ^2/NDF : 2145795.6/54

In: 62.179+/-0.008 χ^2/NDF : 1122392.9/47

Out: 61.514+/-0.008 χ^2/NDF : 2000741.8/54

All: 61.829+/-0.006 χ^2/NDF : 3126618.2/102

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -3.794 ± 47.361 χ^2/NDF : 31.7/24

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

Right Out: 1.832 ± 47.804 χ^2/NDF : 24.1/29

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

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

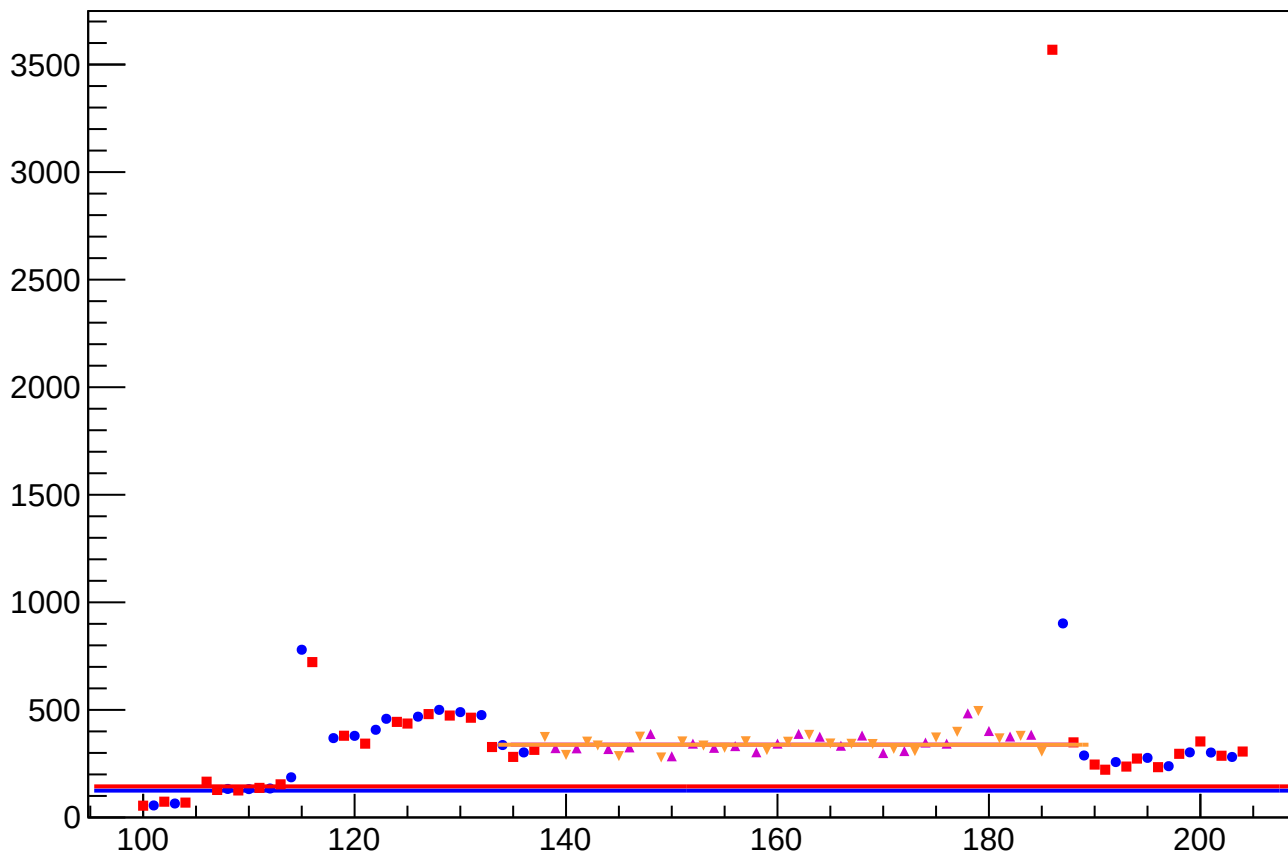
Right: -1.007 ± 33.645 χ^2/NDF : 55.8/54

In: 17.247 ± 40.984 χ^2/NDF : 65.9/47

Out: -52.005 ± 40.975 χ^2/NDF : 48.5/54

All: -17.387 ± 28.977 χ^2/NDF : 115.8/102

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 124.814+/-0.033 χ^2/NDF : 9766403.2/24

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 144.454+/-0.034 χ^2/NDF : 9621651.7/29

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

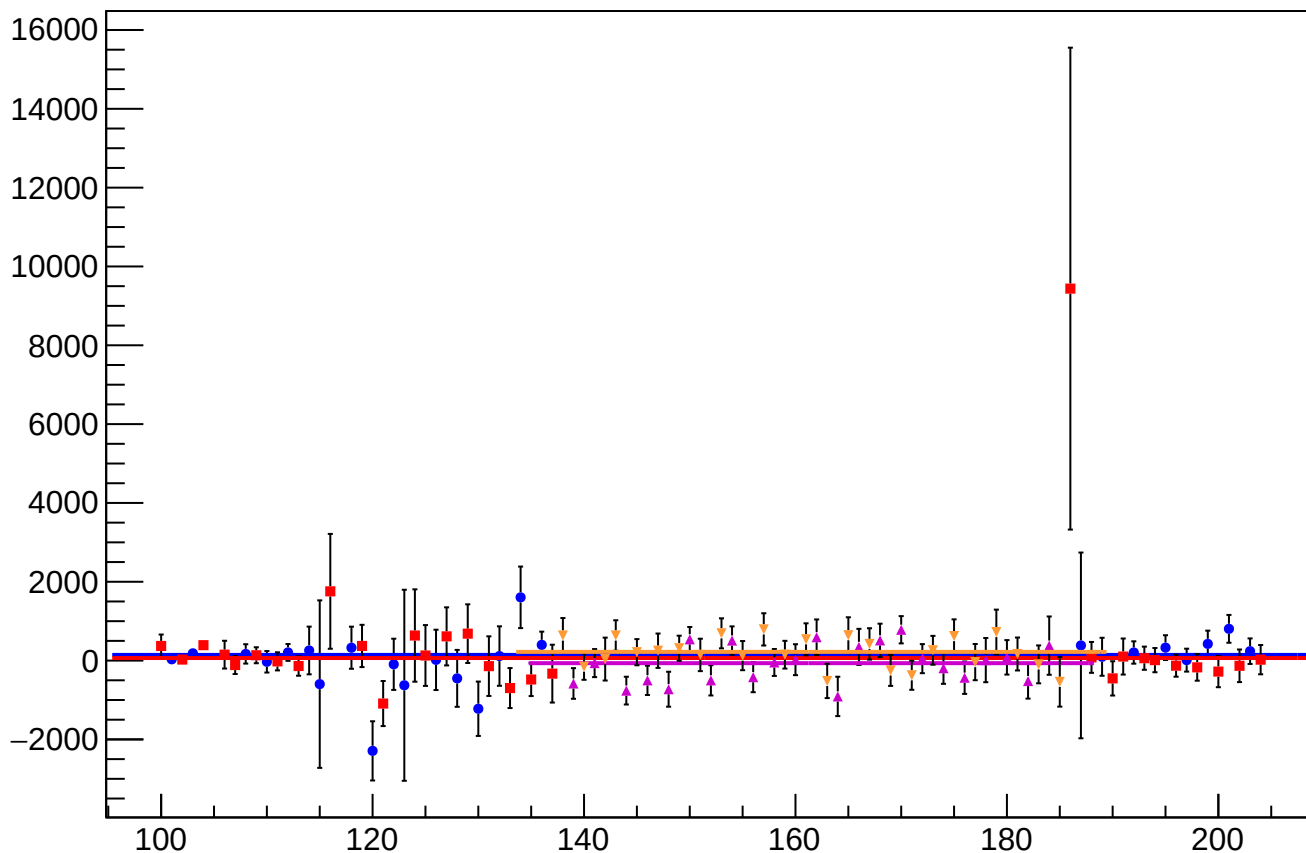
Right: 134.542+/-0.024 χ^2/NDF : 19558420.0/54

In: 178.497+/-0.029 χ^2/NDF : 20434983.2/47

Out: 195.839+/-0.029 χ^2/NDF : 18830190.2/54

All: 187.170+/-0.020 χ^2/NDF : 39444268.3/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 143.989 $\pm$ 56.276 χ^2 /NDF: 26.3/24

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

Right Out: 64.989 $\pm$ 53.487 χ^2 /NDF: 27.4/29

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

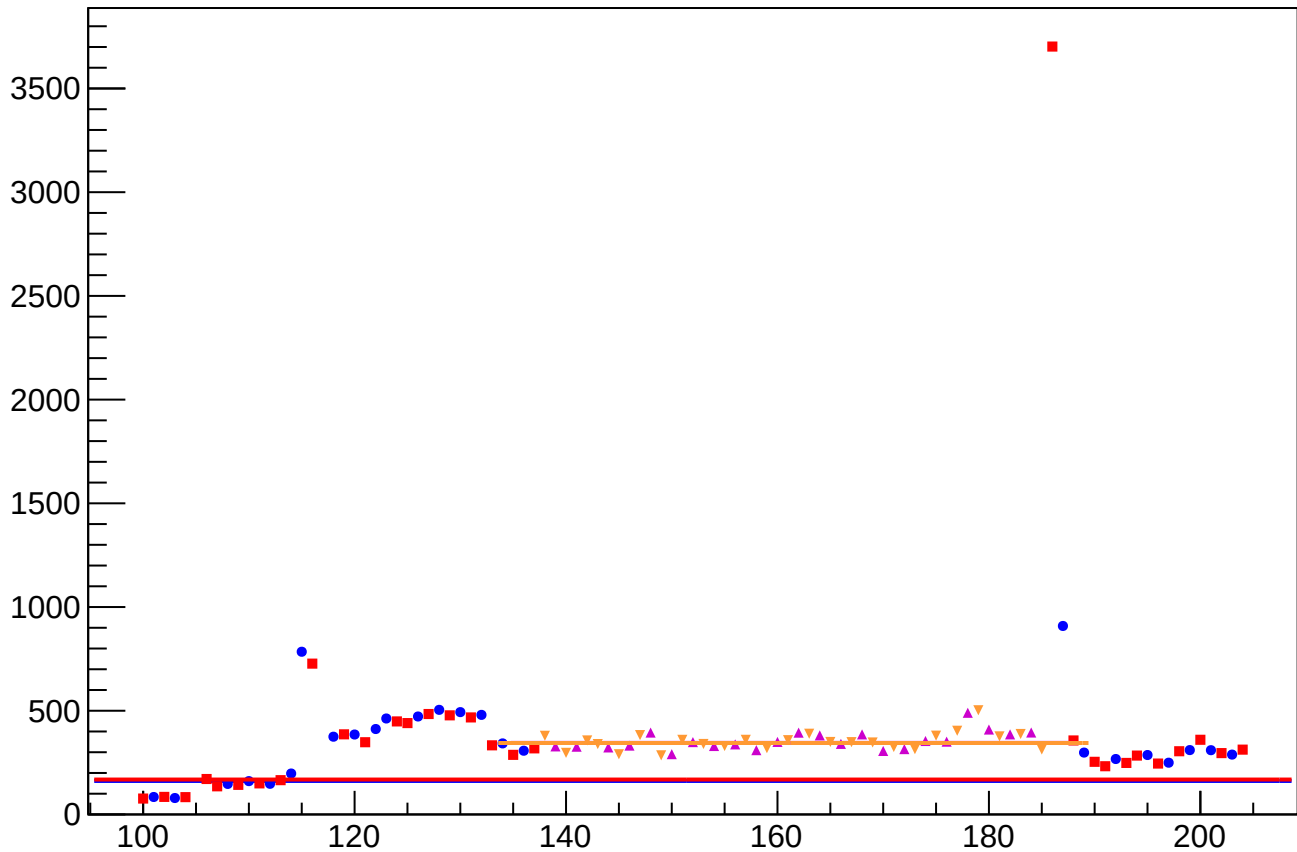
Right: 102.483 $\pm$ 38.770 χ^2 /NDF: 54.8/54

In: 78.356 $\pm$ 46.635 χ^2 /NDF:64.6/47

Out: 112.371 $\pm$ 44.637 χ^2 /NDF:49.7/54

All: 96.108 $\pm$ 32.246 χ^2 /NDF: 114.6/102

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 161.570+/-0.040 χ^2/NDF : 7470154.5/24

Left Out: 344.506+/-0.057 χ^2/NDF :488323.4/24

Right Out: 168.330+/-0.038 χ^2/NDF : 8120933.2/29

Left In: 345.039+/-0.059 χ^2/NDF :427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

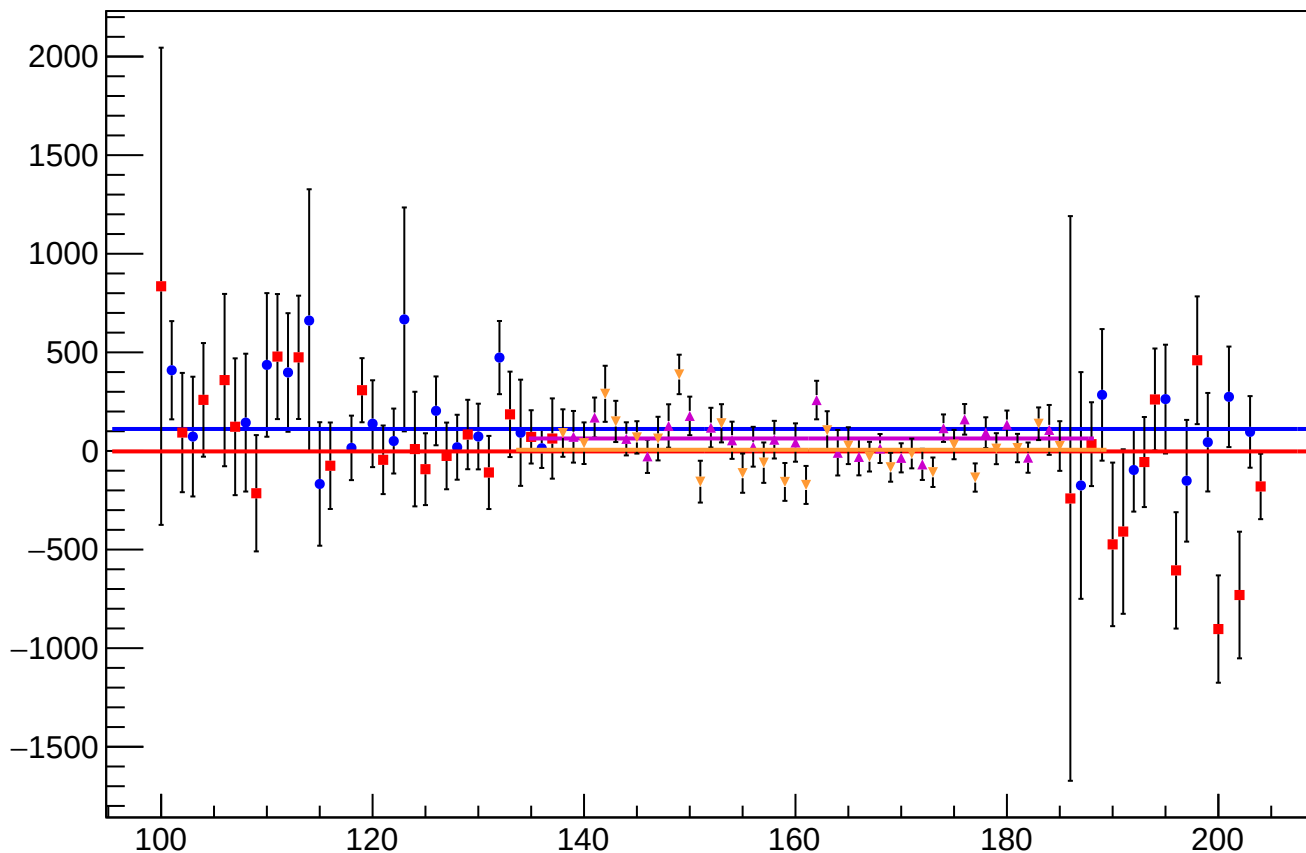
Right: 165.122+/-0.027 χ^2/NDF : 15606248.5/54

In: 219.048+/-0.033 χ^2/NDF :14557103.7/47

Out: 221.807+/-0.032 χ^2/NDF :15195674.5/54

All: 220.488+/-0.023 χ^2/NDF : 29756431.3/10

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 111.481 ± 43.317 $\chi^2/\text{NDF}: 14.5/24$

Left Out: 6.020 ± 17.910 $\chi^2/\text{NDF}: 46.0/24$

Right Out: -2.301 ± 42.715 $\chi^2/\text{NDF}: 40.0/29$

Left In: 63.279 ± 18.447 $\chi^2/\text{NDF}: 19.8/22$

Left: 33.804 ± 12.850 $\chi^2/\text{NDF}: 70.8/47$

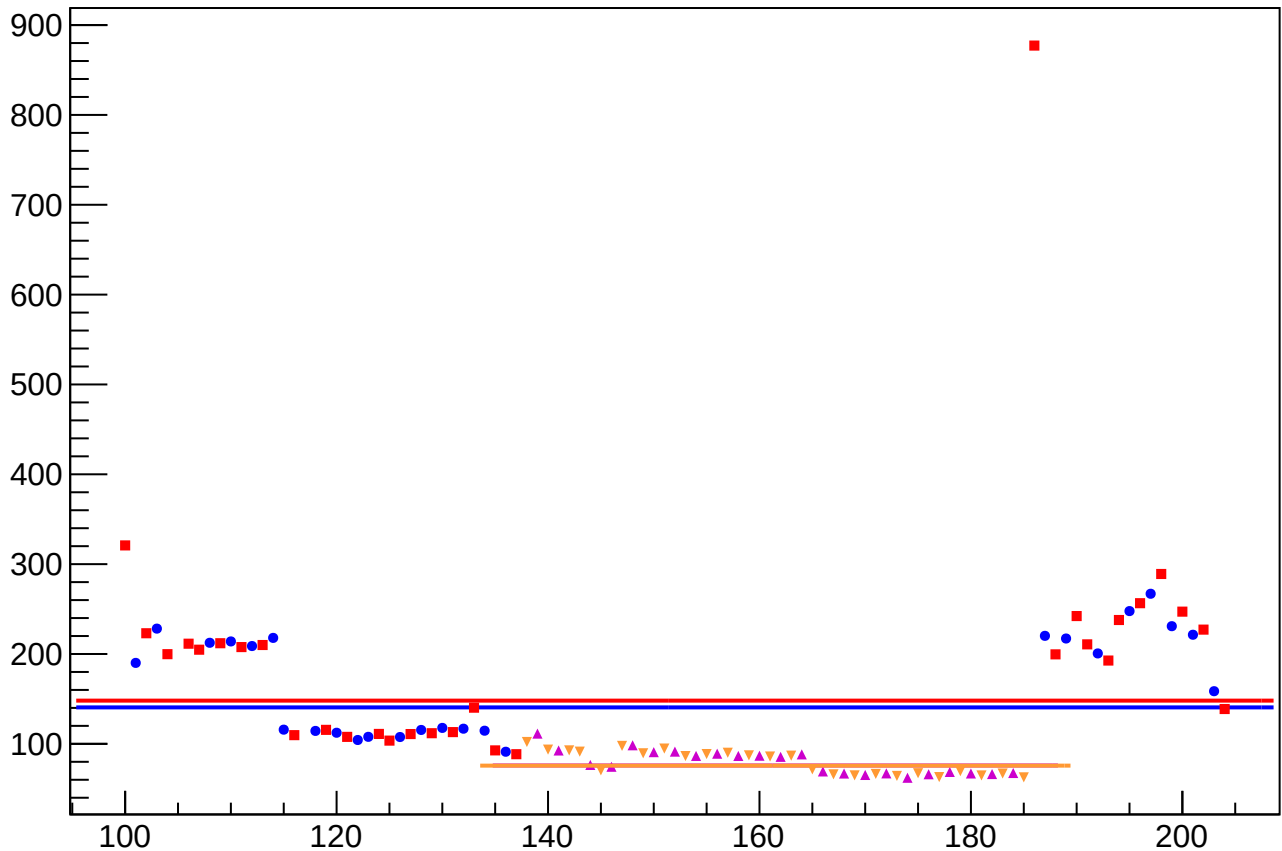
Right: 53.795 ± 30.415 $\chi^2/\text{NDF}: 58.0/54$

In: 70.679 ± 16.972 $\chi^2/\text{NDF}: 35.4/47$

Out: 4.775 ± 16.517 $\chi^2/\text{NDF}: 86.1/54$

All: 36.832 ± 11.837 $\chi^2/\text{NDF}: 129.2/102$

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.558 $\pm$ 0.031 χ^2 /NDF: 2864014.3/24

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

Right Out: 148.097 $\pm$ 0.030 χ^2 /NDF: 3874053.2/29

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

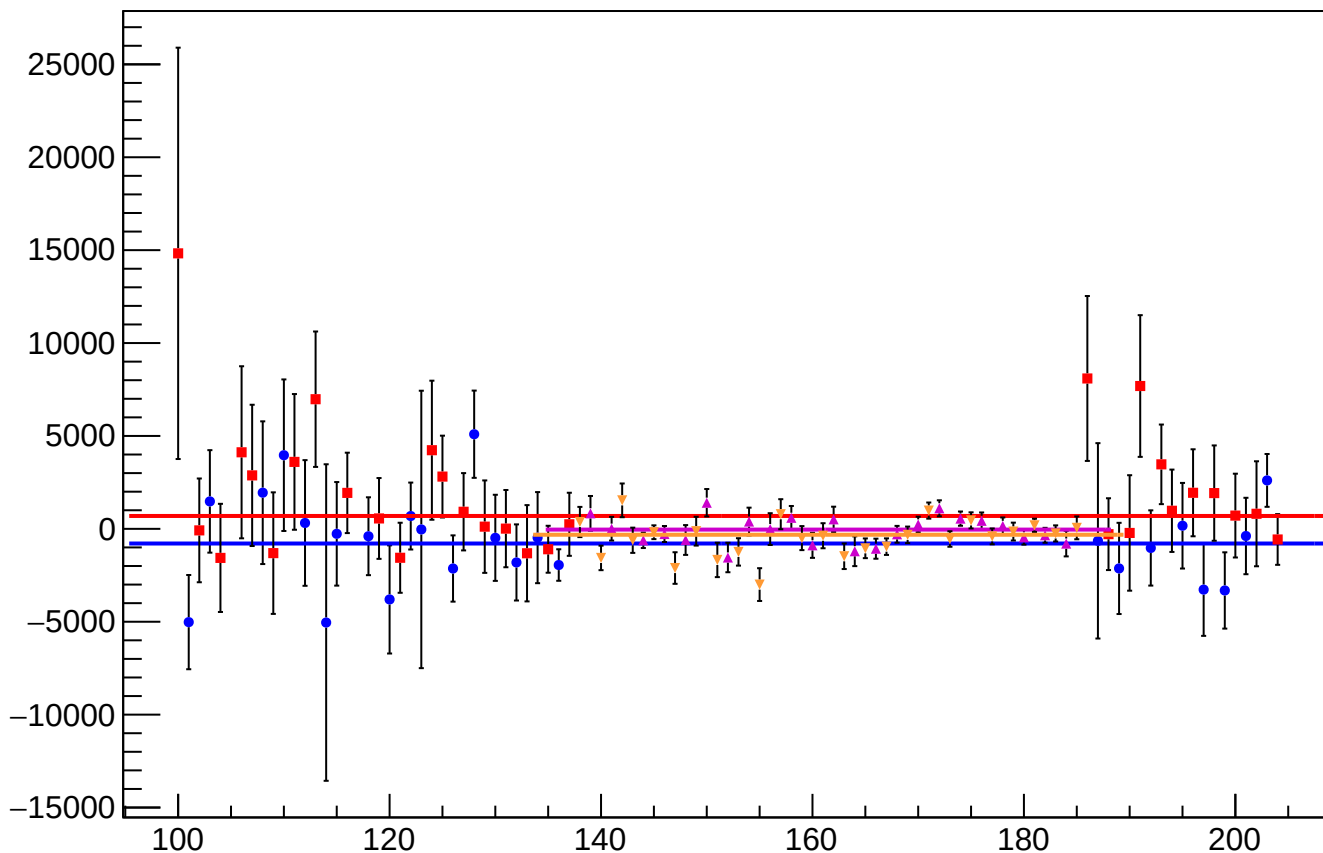
Right: 144.380 $\pm$ 0.022 χ^2 /NDF: 6768781.5/54

In: 85.834 $\pm$ 0.012 χ^2 /NDF: 7466456.5/47

Out: 86.561 $\pm$ 0.012 χ^2 /NDF: 9692332.2/54

All: 86.207 $\pm$ 0.008 χ^2 /NDF: 17160673.4/102

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -789.422+/-424.173 χ^2/NDF : 25.2/24

Left Out: -318.064+/-108.014 χ^2/NDF : 50.0/24

Right Out: 693.101+/-428.345 χ^2/NDF : 23.2/29

Left In: -40.473+/-110.252 χ^2/NDF : 34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

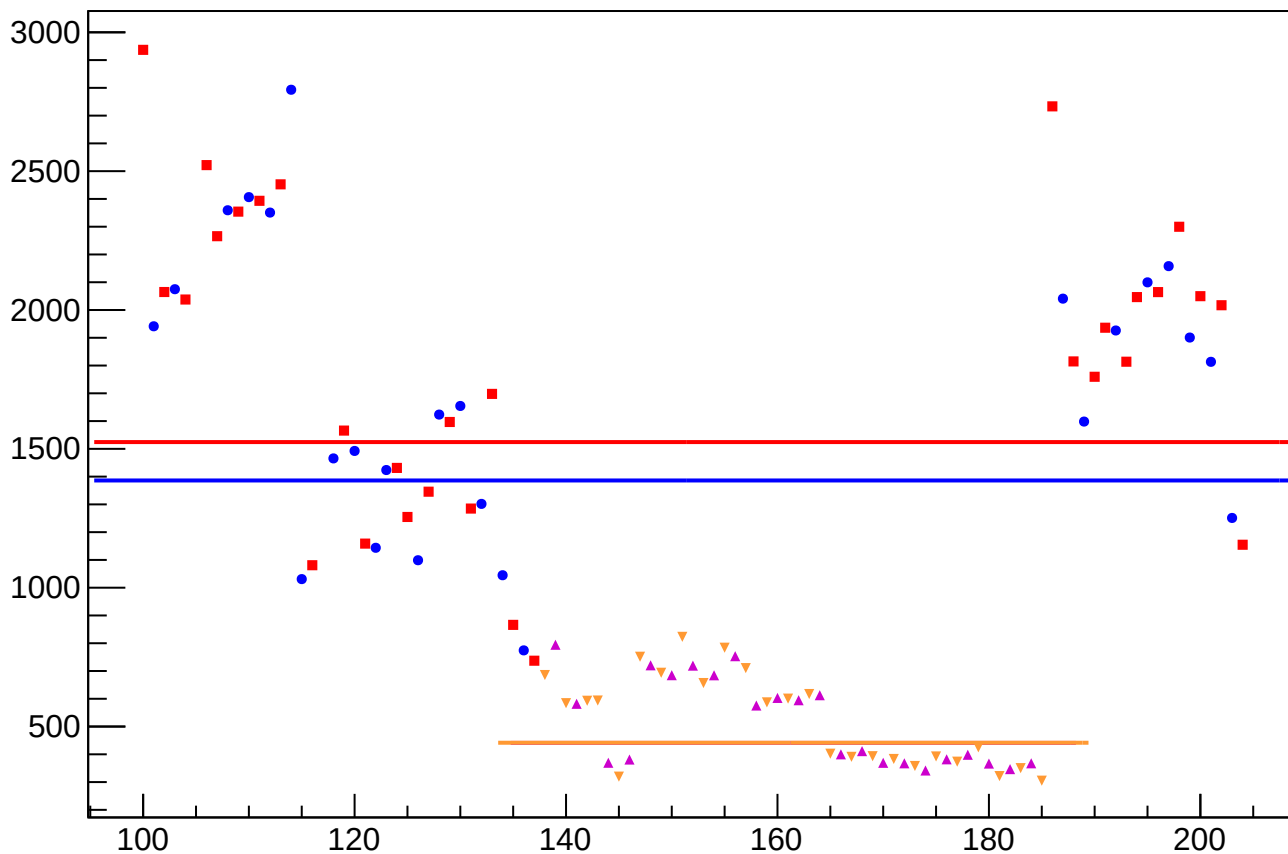
Right: -55.416+/-301.400 χ^2/NDF : 54.4/54

In: -87.870+/-106.707 χ^2/NDF : 62.9/47

Out: -257.611+/-104.735 χ^2/NDF : 78.4/54

All: -174.323+/-74.746 χ^2/NDF : 142.6/102

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1386.139+/-0.300 χ^2/NDF : 2750332.5/24

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

Right Out: 1524.401+/-0.303 χ^2/NDF : 2907862.9/29

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

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

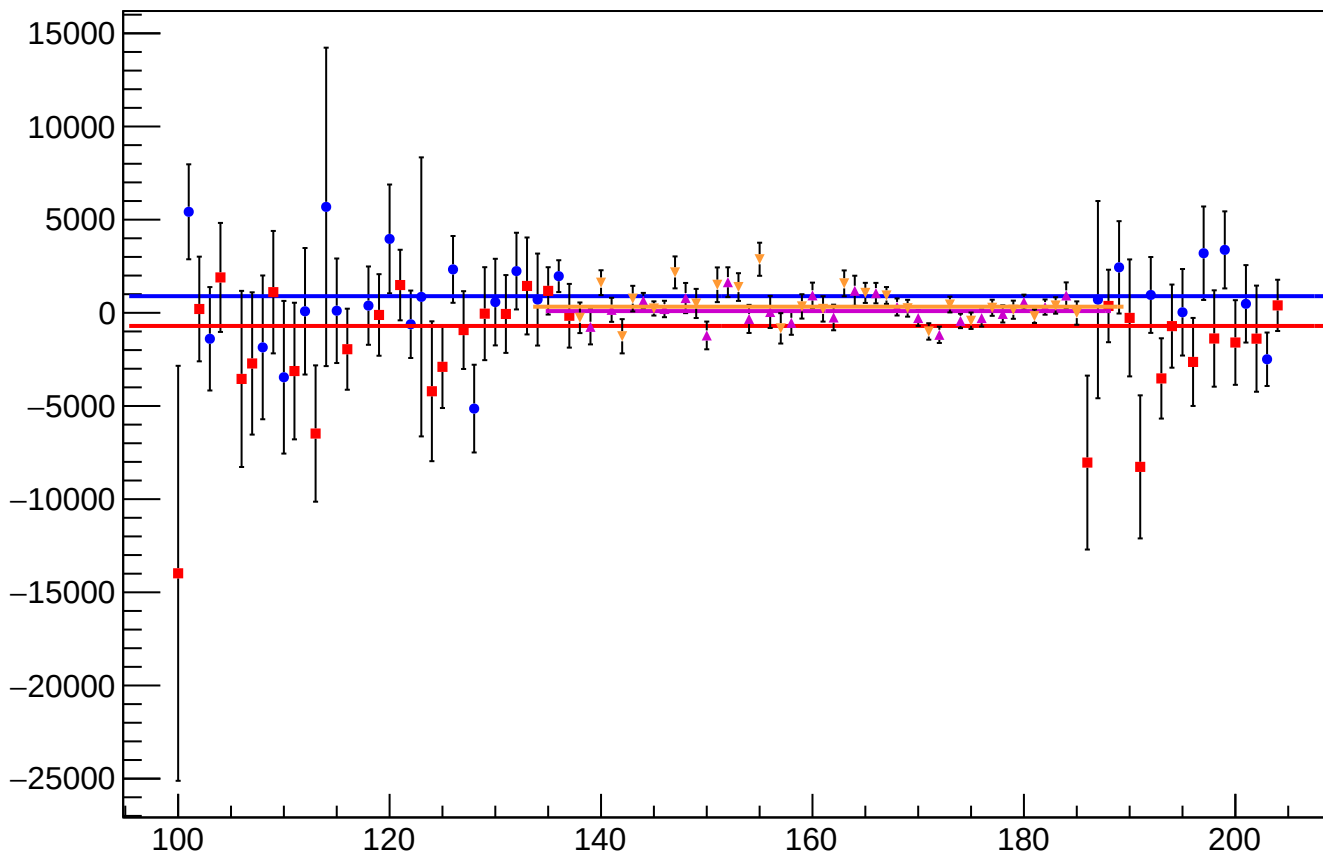
Right: 1454.593+/-0.213 χ^2/NDF : 5763403.0/54

In: 500.821+/-0.075 χ^2/NDF : 14648481.3/47

Out: 506.415+/-0.074 χ^2/NDF : 18091322.9/54

All: 503.670+/-0.053 χ^2/NDF : 32742604.3/100

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 893.965 ± 426.931 χ^2/NDF : 25.5/24

Left Out: 328.599 ± 109.668 χ^2/NDF : 47.7/24

Right Out: -704.706 ± 431.121 χ^2/NDF : 22.9/29

Left In: 93.310 ± 111.960 χ^2/NDF : 33.3/22

Left: 213.387 ± 78.345 χ^2/NDF : 83.3/47

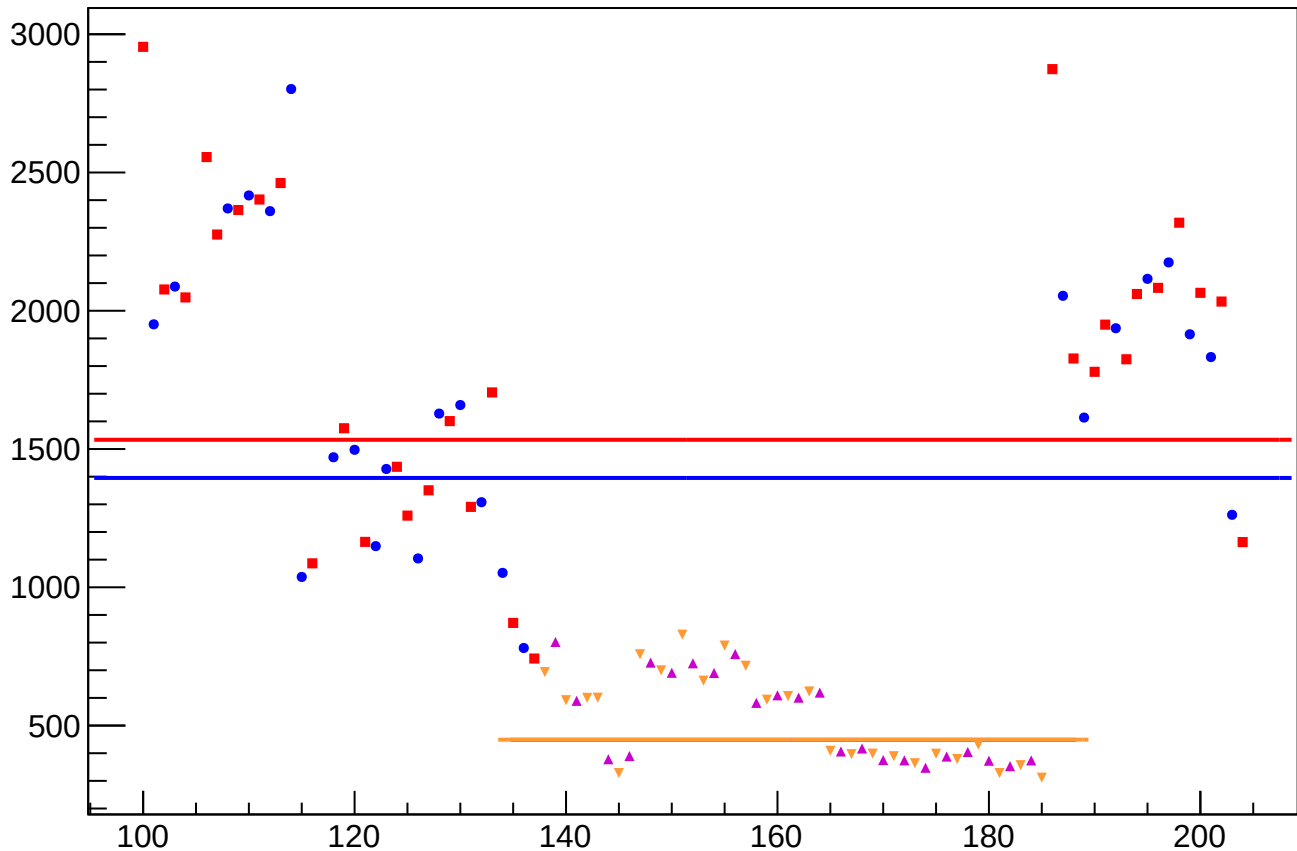
Right: 102.437 ± 303.356 χ^2/NDF : 55.3/54

In: 144.830 ± 108.298 χ^2/NDF : 62.1/47

Out: 265.799 ± 106.283 χ^2/NDF : 76.0/54

All: 206.450 ± 75.856 χ^2/NDF : 138.8/102

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1395.426 $\pm$ 0.302 χ^2 /NDF: 2742436.5/24

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF: 3090476.2/24

Right Out: 1533.457 $\pm$ 0.305 χ^2 /NDF: 2927750.4/29

Left In: 448.307 $\pm$ 0.079 χ^2 /NDF: 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2 /NDF: 5627893.2/47

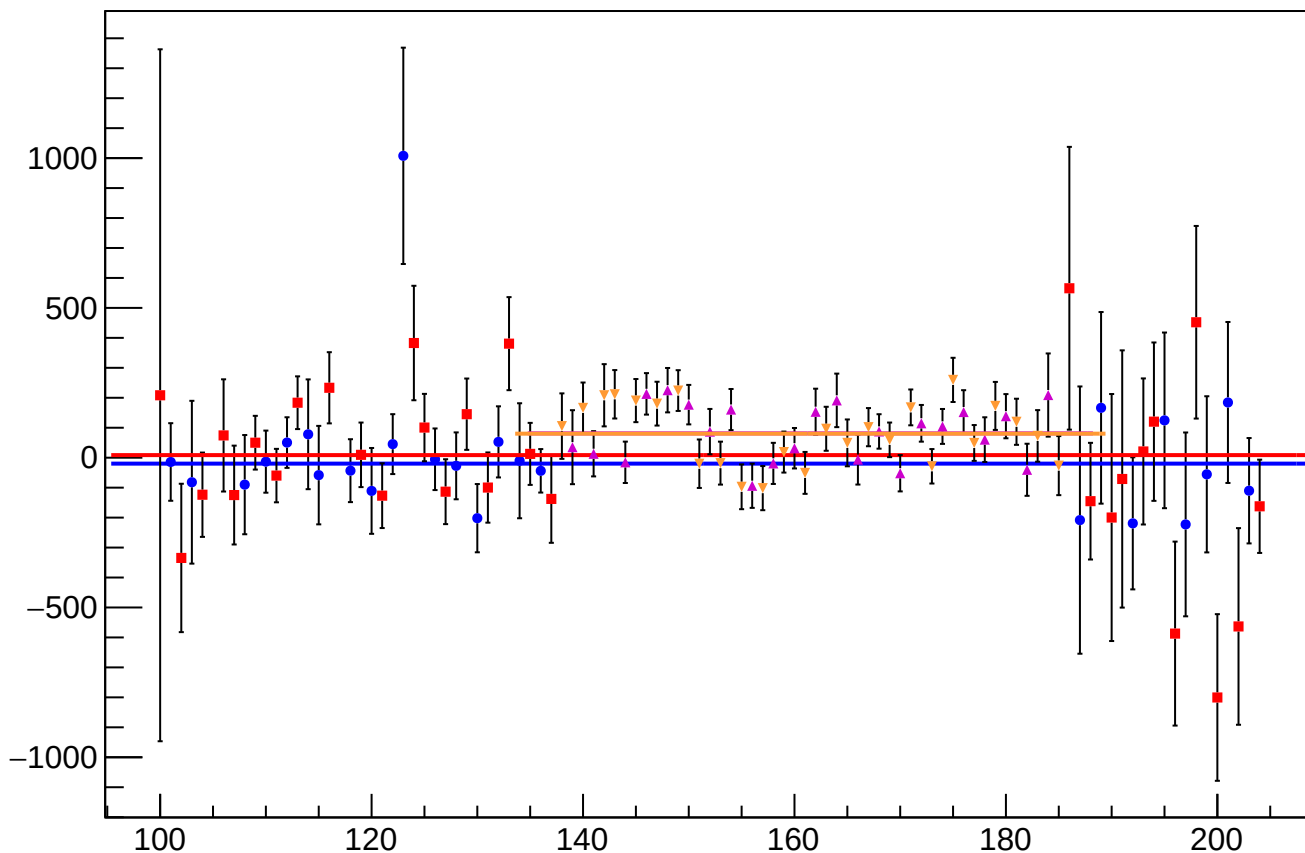
Right: 1463.768 $\pm$ 0.215 χ^2 /NDF: 5773695.3/54

In: 509.251 $\pm$ 0.077 χ^2 /NDF: 14489391.1/47

Out: 514.924 $\pm$ 0.075 χ^2 /NDF: 17903571.4/54

All: 512.141 $\pm$ 0.054 χ^2 /NDF: 32395758.6/100

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -19.817 ± 27.573 χ^2/NDF : 16.2/24

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 8.619 ± 26.462 χ^2/NDF : 49.0/29

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

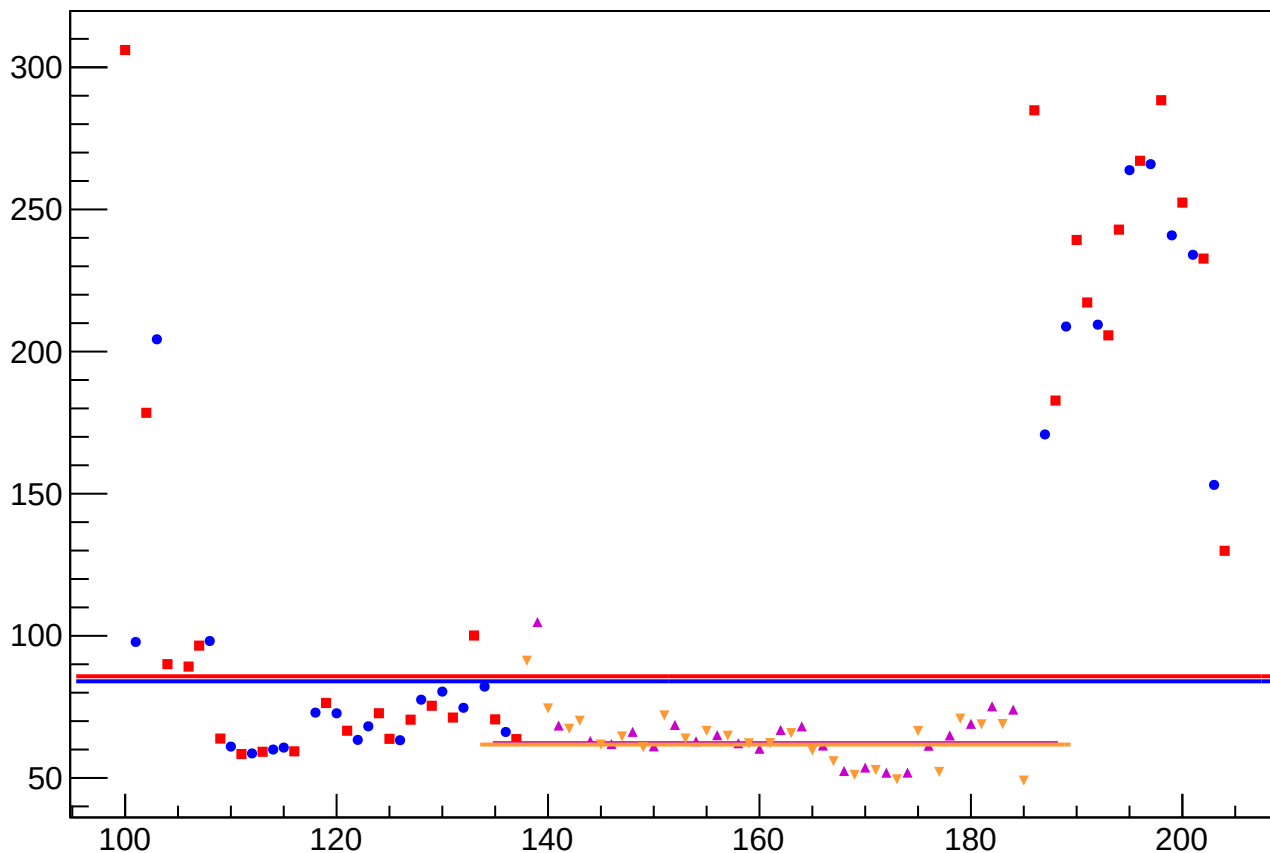
Right: -5.015 ± 19.092 χ^2/NDF : 65.8/54

In: 57.847 ± 13.248 χ^2/NDF : 61.8/47

Out: 63.486 ± 12.778 χ^2/NDF : 103.2/54

All: 60.769 ± 9.197 χ^2/NDF : 165.1/102

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 84.004 $\pm$ 0.019 χ^2 /NDF: 5269819.2/24

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 85.775 $\pm$ 0.019 χ^2 /NDF: 6586874.1/29

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

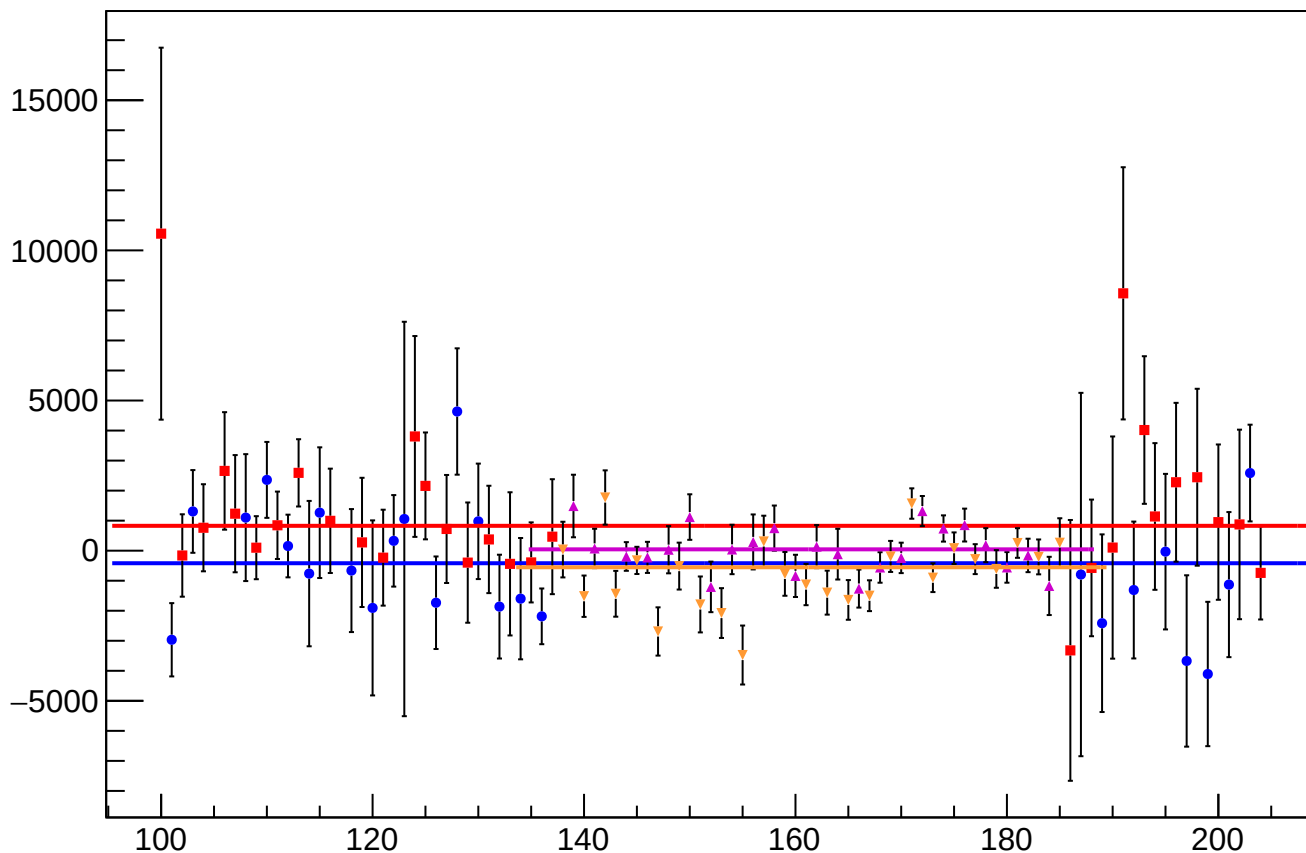
Right: 84.926 $\pm$ 0.014 χ^2 /NDF: 11860987.9/54

In: 67.272 $\pm$ 0.009 χ^2 /NDF: 6818465.2/47

Out: 67.361 $\pm$ 0.009 χ^2 /NDF: 8495400.3/54

All: 67.318 $\pm$ 0.007 χ^2 /NDF: 15313912.0/102

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -417.808 ± 350.193 $\chi^2/\text{NDF}: 32.3/24$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 827.943 ± 334.904 $\chi^2/\text{NDF}: 18.4/29$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

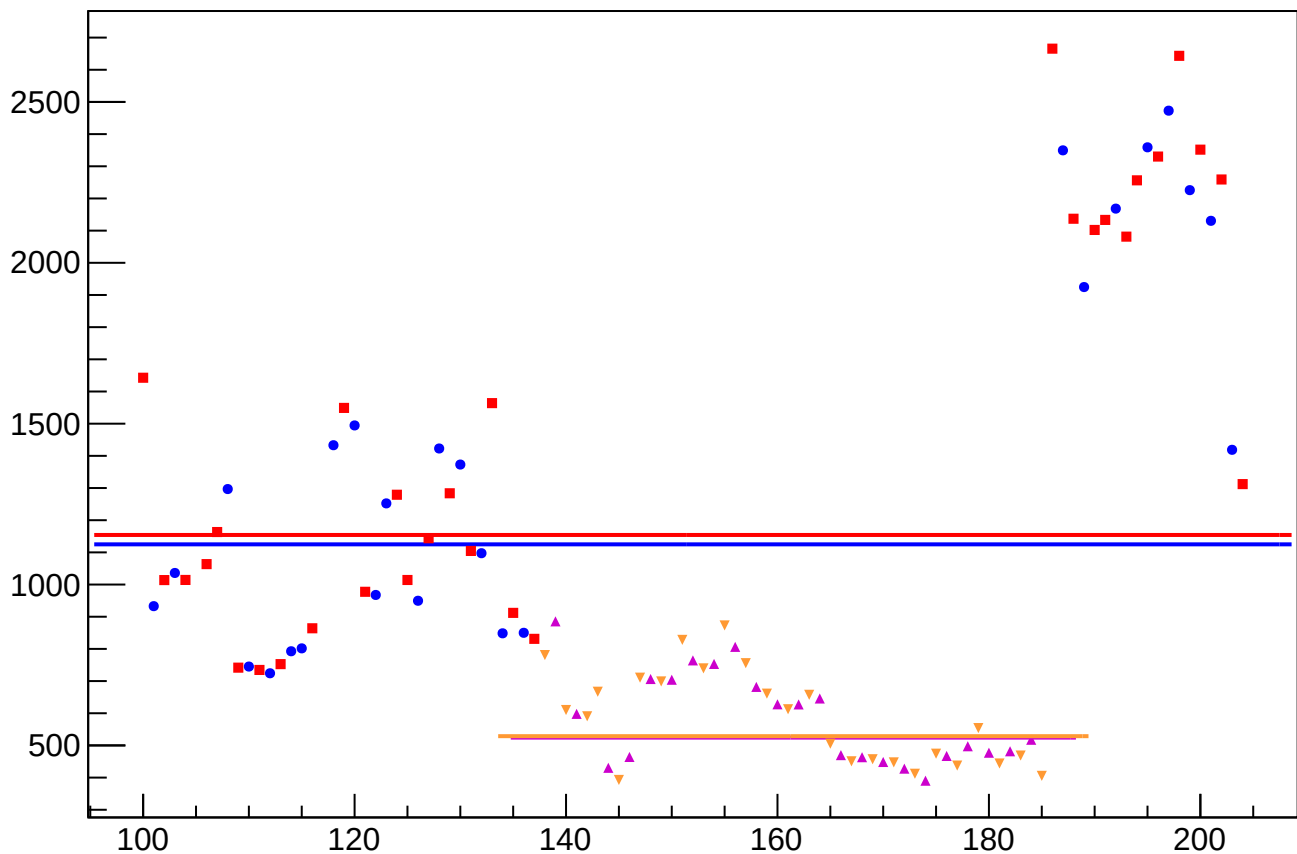
Right: 232.855 ± 242.038 $\chi^2/\text{NDF}: 57.3/54$

In: -10.740 ± 121.126 $\chi^2/\text{NDF}: 63.4/47$

Out: -379.001 ± 118.733 $\chi^2/\text{NDF}: 98.5/54$

All: -198.545 ± 84.790 $\chi^2/\text{NDF}: 166.6/102$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1124.956+/-0.248 χ^2/NDF : 3421434.1/24

Left Out: 528.736+/-0.090 χ^2/NDF :1983697.7/24

Right Out: 1154.124+/-0.237 χ^2/NDF : 4405537.6/29

Left In: 524.268+/-0.091 χ^2/NDF :1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

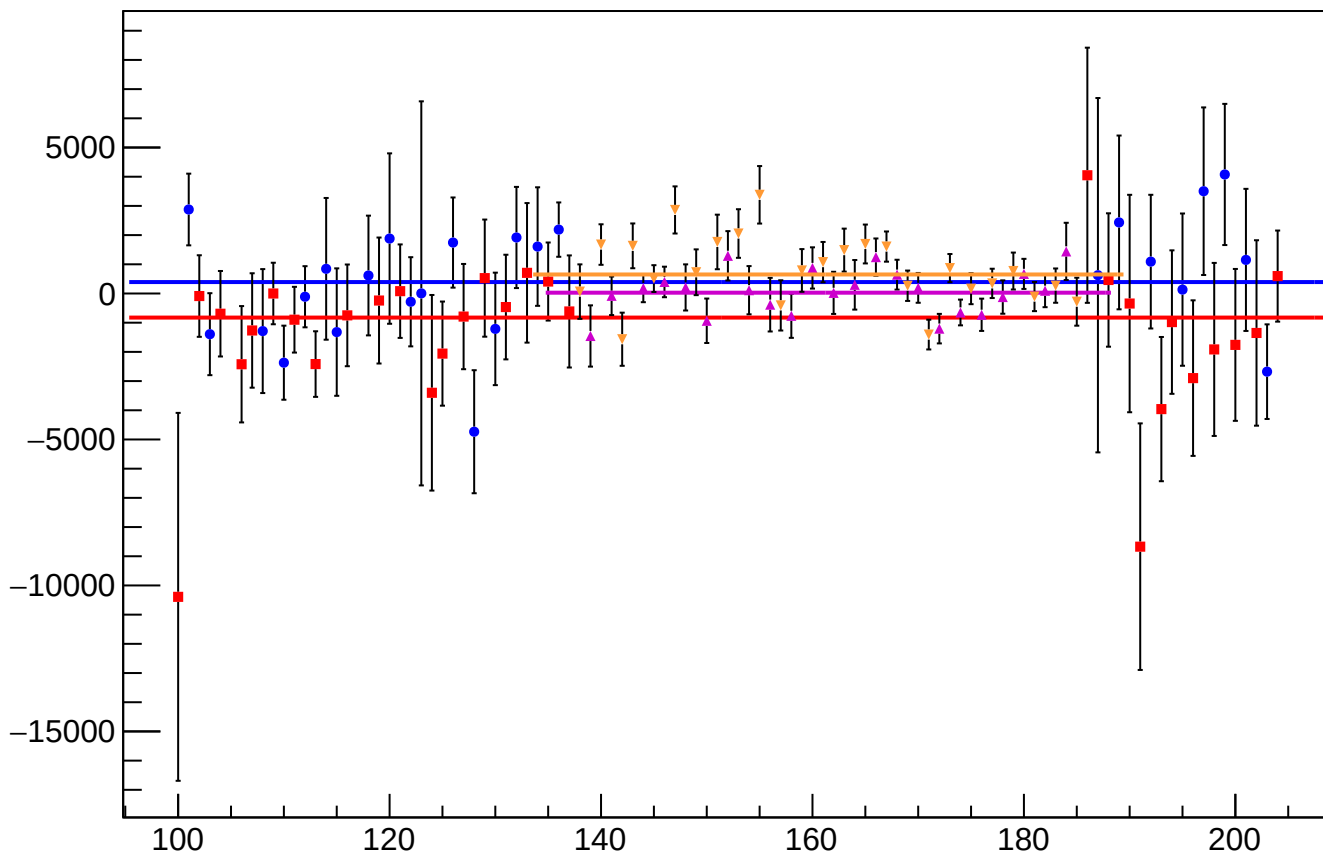
Right: 1140.191+/-0.171 χ^2/NDF : 7834218.5/54

In: 596.132+/-0.086 χ^2/NDF :10318220.1/47

Out: 607.341+/-0.084 χ^2/NDF :12486755.6/54

All: 601.848+/-0.060 χ^2/NDF : 22813710.0/100

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 391.564+/-351.877 χ^2/NDF : 32.4/24

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -824.996+/-336.637 χ^2/NDF : 17.5/29

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

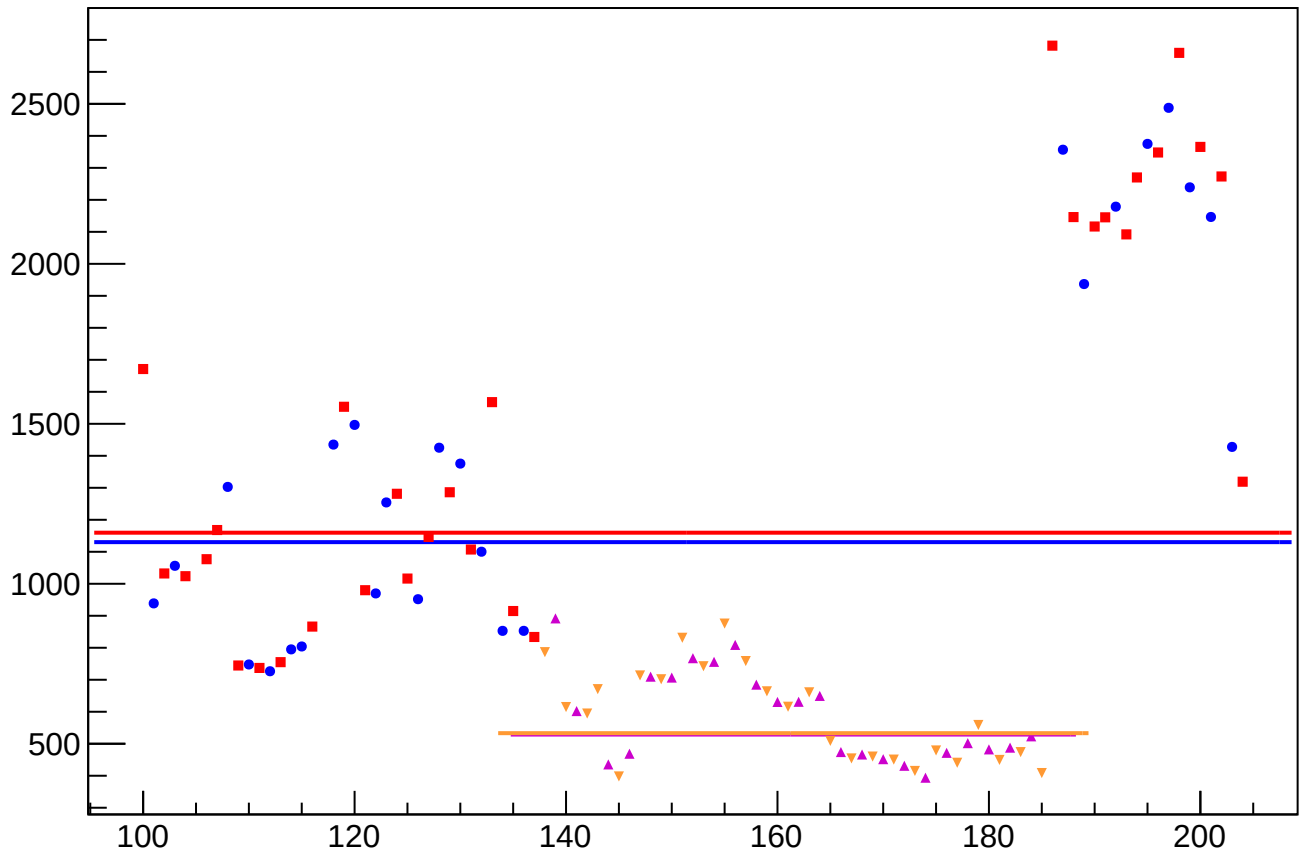
Right: -243.631+/-243.247 χ^2/NDF : 56.2/54

In: 71.284+/-122.049 χ^2/NDF : 61.8/47

Out: 465.149+/-119.611 χ^2/NDF : 95.4/54

All: 272.188+/-85.427 χ^2/NDF : 162.6/102

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1130.151+/-0.249 χ^2/NDF : 3429452.0/24

Left Out: 533.060+/-0.090 χ^2/NDF : 1951536.4/24

Right Out: 1159.664+/-0.238 χ^2/NDF : 4415866.4/29

Left In: 528.694+/-0.092 χ^2/NDF : 1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

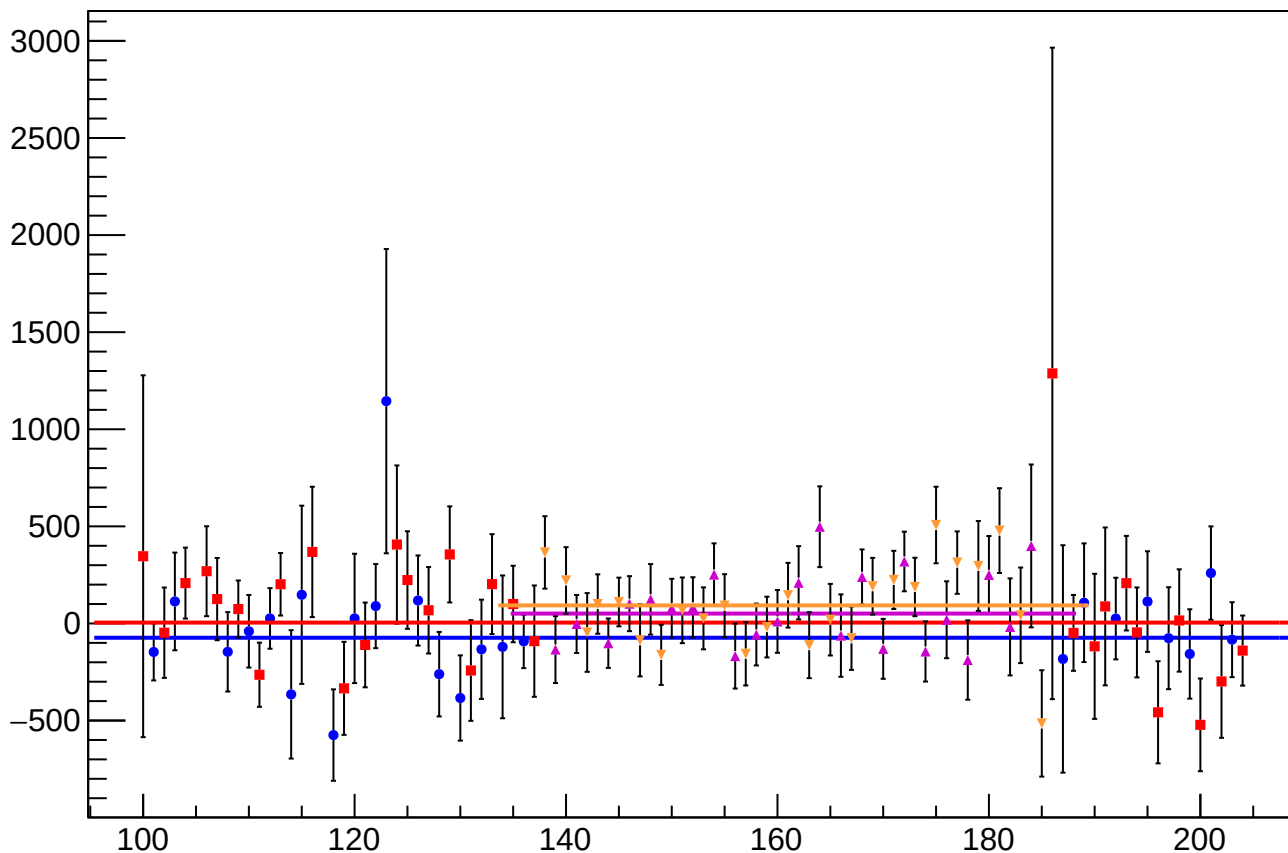
Right: 1145.561+/-0.172 χ^2/NDF : 7852664.4/54

In: 601.052+/-0.086 χ^2/NDF : 10258286.3/47

Out: 612.167+/-0.085 χ^2/NDF : 12421950.1/54

All: 606.722+/-0.060 χ^2/NDF : 22688696.9/100

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -73.632 ± 45.435 χ^2/NDF : 16.7/24

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 4.433 ± 42.644 χ^2/NDF : 27.8/29

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

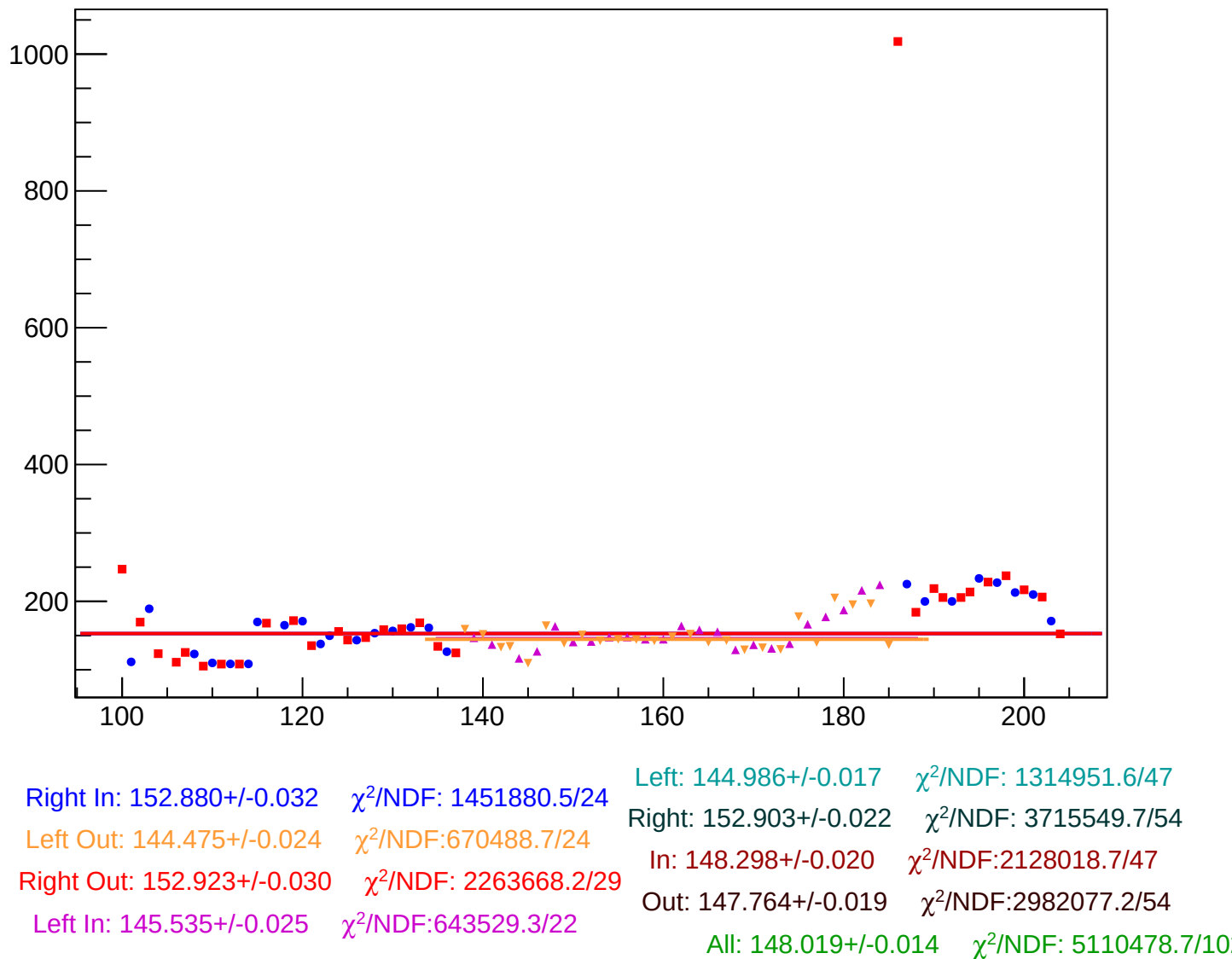
Right: -32.129 ± 31.094 χ^2/NDF : 46.0/54

In: 4.055 ± 27.865 χ^2/NDF : 44.8/47

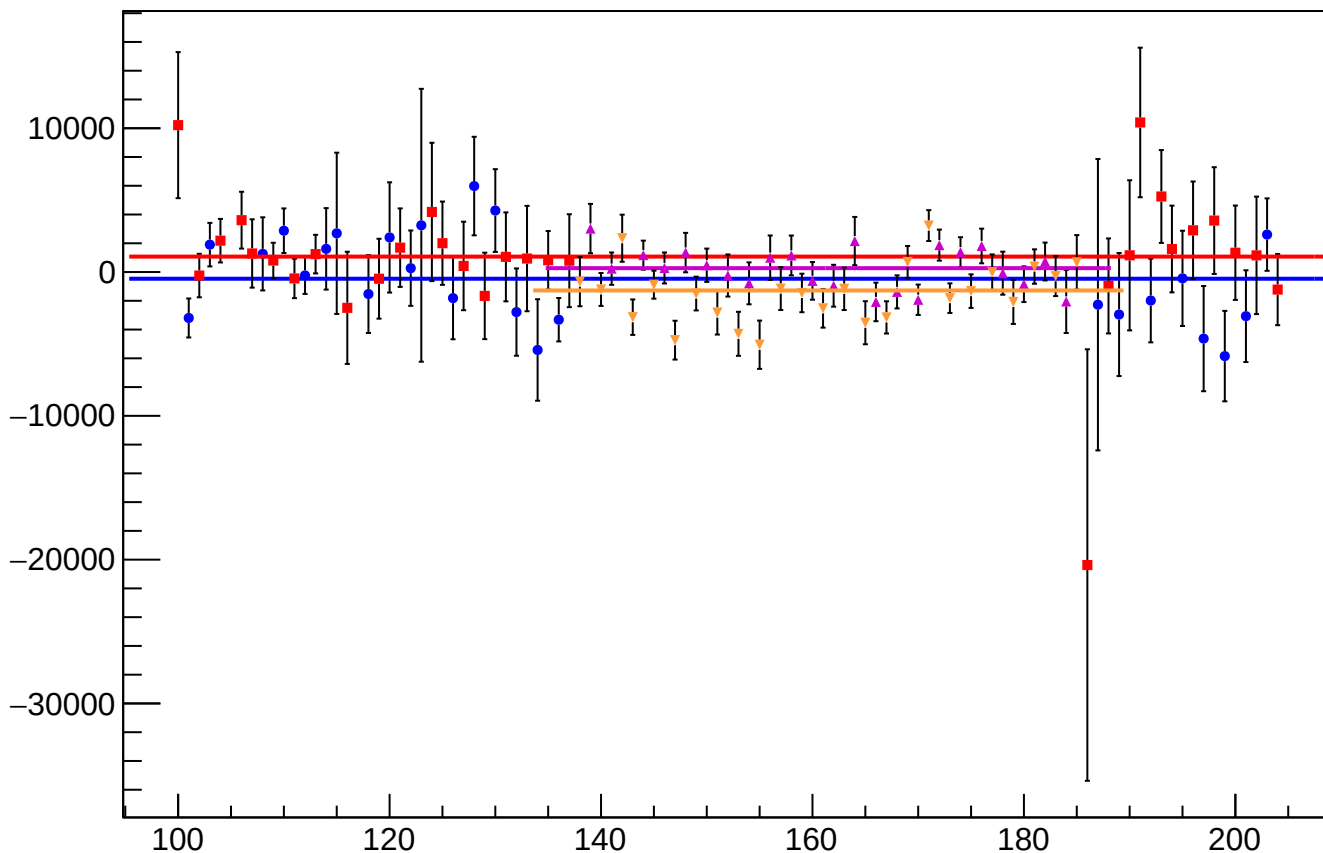
Out: 58.509 ± 26.610 χ^2/NDF : 59.9/54

All: 32.536 ± 19.245 χ^2/NDF : 106.7/102

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



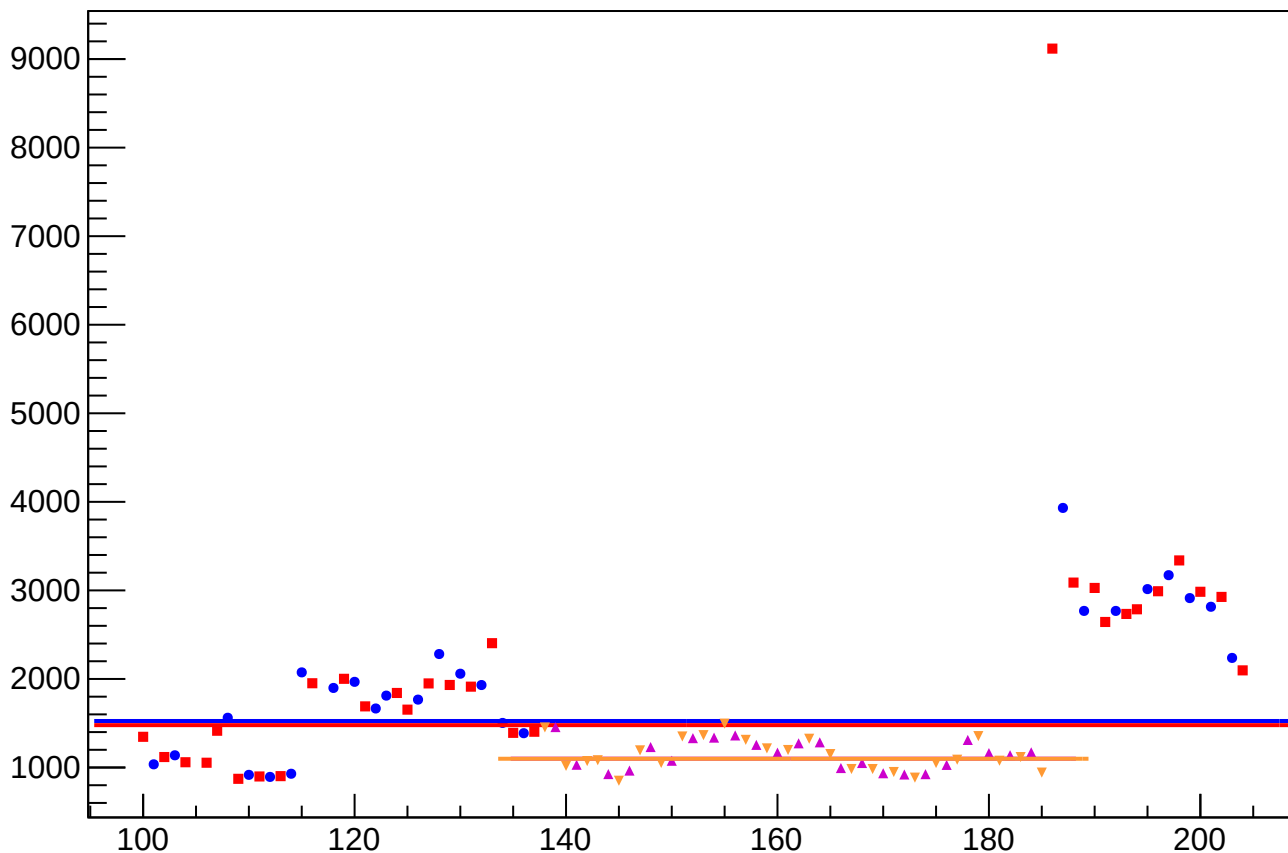
Right In: -465.422 ± 480.286 $\chi^2/\text{NDF}: 33.0/24$
 Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$
 Right Out: 1074.672 ± 440.103 $\chi^2/\text{NDF}: 19.0/29$
 Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$
 Right: 371.735 ± 324.477 $\chi^2/\text{NDF}: 57.7/54$

In: 97.091 ± 232.860 $\chi^2/\text{NDF}: 59.1/47$
 Out: -672.745 ± 223.407 $\chi^2/\text{NDF}: 96.2/54$

All: -303.770 ± 161.211 $\chi^2/\text{NDF}: 161.0/102$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1525.346 $\pm$ 0.340 χ^2 /NDF: 3927881.7/24

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1478.457 $\pm$ 0.311 χ^2 /NDF: 5609195.4/29

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

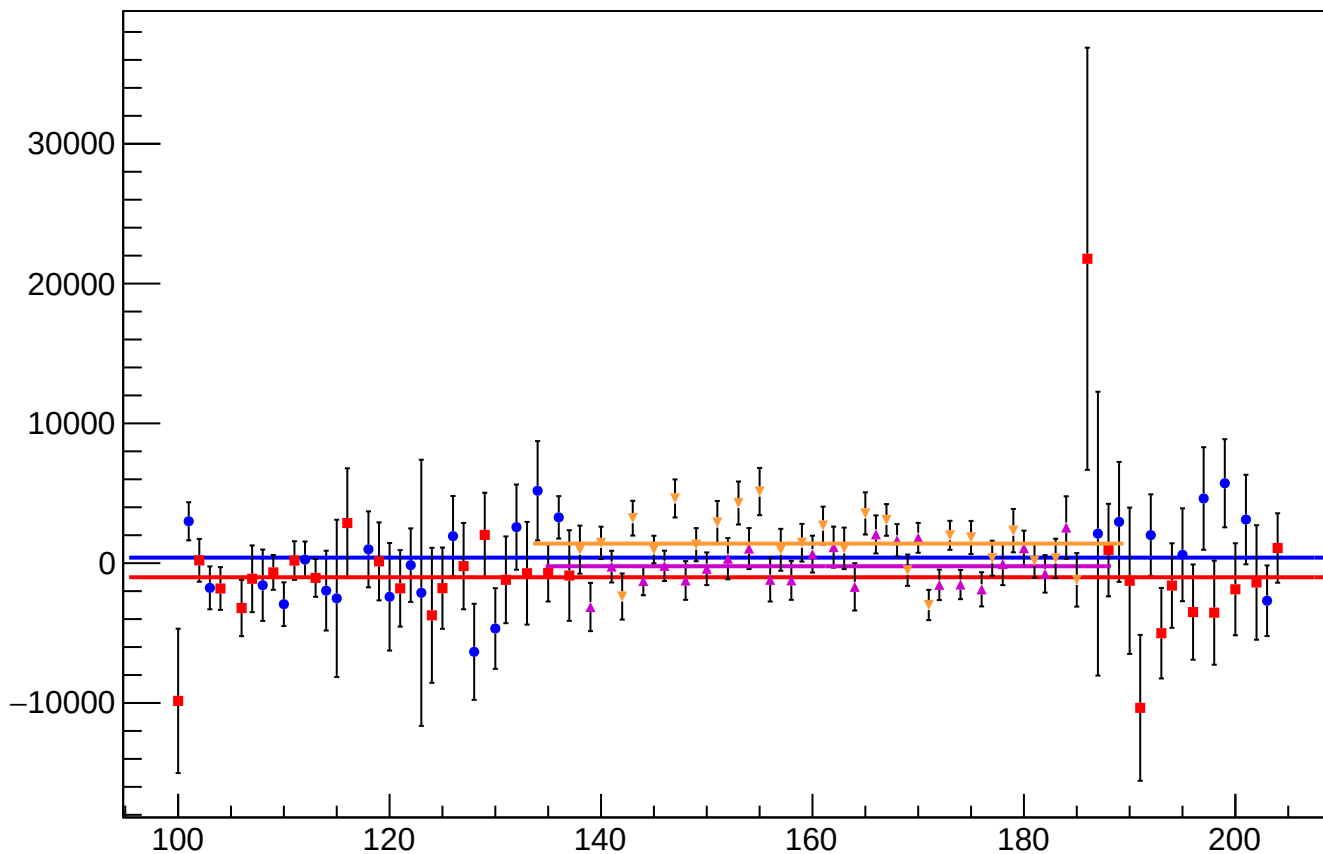
Right: 1499.858 $\pm$ 0.229 χ^2 /NDF: 9547439.0/54

In: 1199.667 $\pm$ 0.165 χ^2 /NDF: 5810007.0/47

Out: 1196.712 $\pm$ 0.158 χ^2 /NDF: 7537717.4/54

All: 1198.128 $\pm$ 0.114 χ^2 /NDF: 13347892.2/101

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 398.006 $\pm$ 483.131 χ^2/NDF : 32.7/24

Left Out: 1400.458 $\pm$ 261.804 χ^2/NDF : 52.2/24

Right Out: -1005.646 $\pm$ 443.120 χ^2/NDF : 17.8/29

Left In: -219.393 $\pm$ 268.852 χ^2/NDF : 25.0/22

Left: 612.044 $\pm$ 187.566 χ^2/NDF : 95.9/47

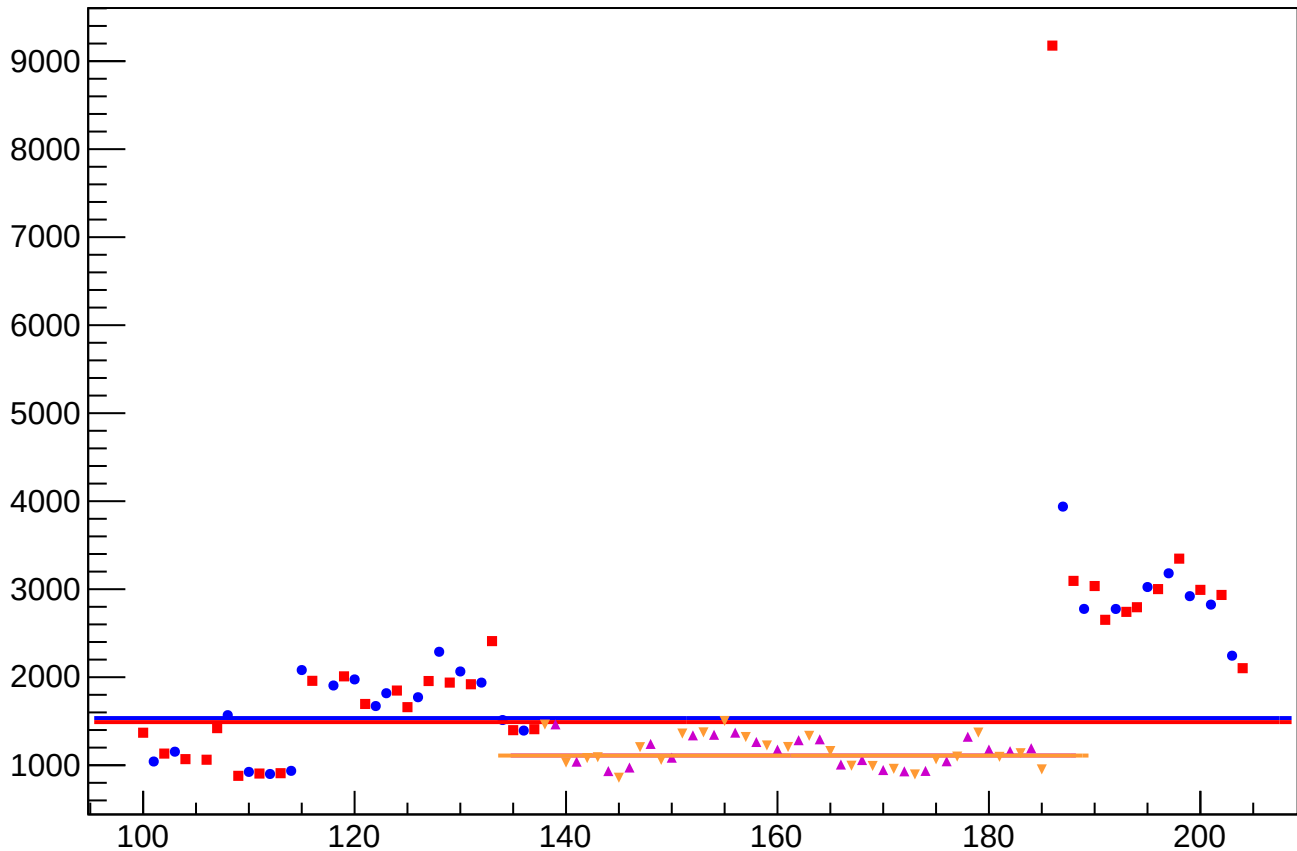
Right: -364.340 $\pm$ 326.564 χ^2/NDF : 55.0/54

In: -73.410 $\pm$ 234.927 χ^2/NDF : 58.9/47

Out: 777.885 $\pm$ 225.403 χ^2/NDF : 91.9/54

All: 369.843 $\pm$ 162.647 χ^2/NDF : 157.6/102

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1535.747+/-0.342 χ^2/NDF : 3893259.3/24

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1489.861+/-0.313 χ^2/NDF : 5561294.3/29

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

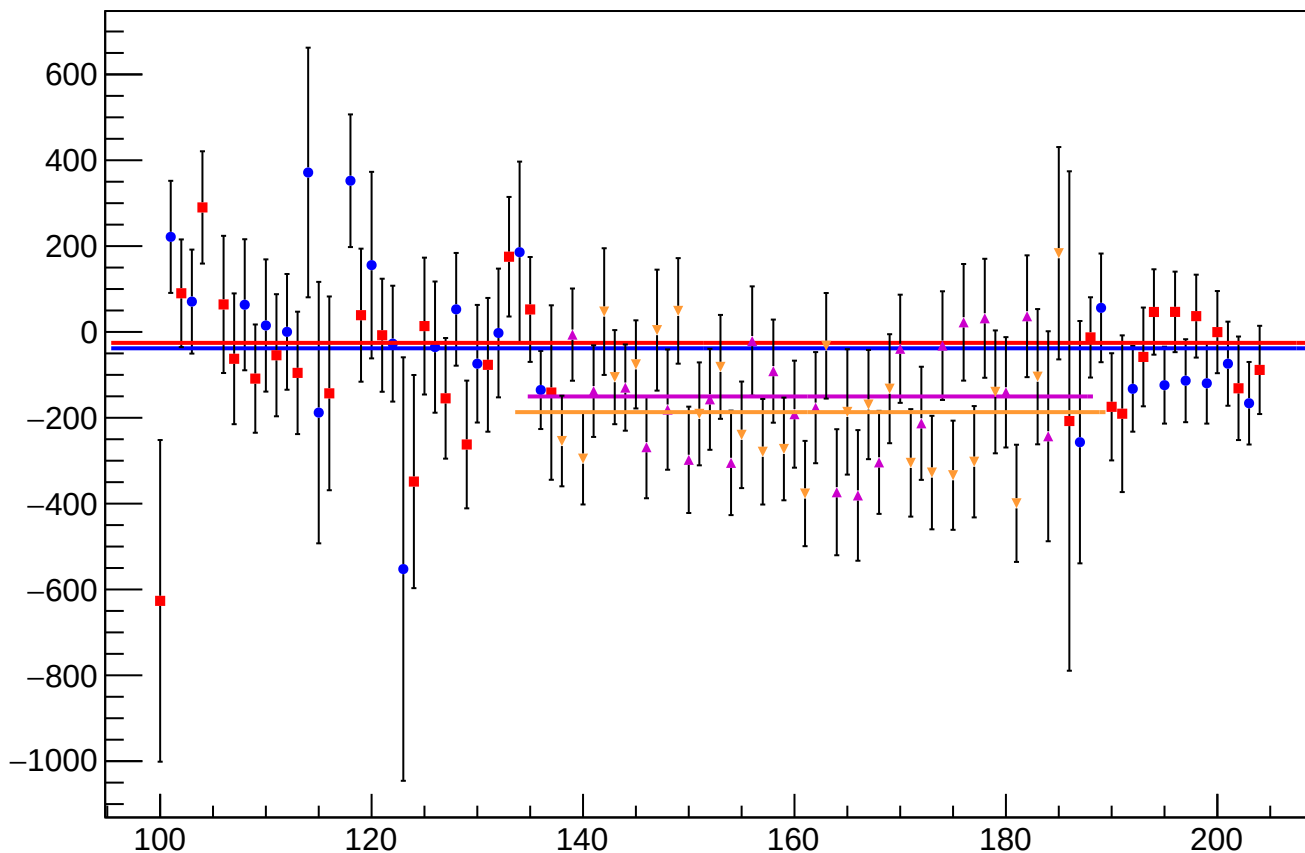
Right: 1510.826+/-0.231 χ^2/NDF : 9464351.9/54

In: 1211.081+/-0.166 χ^2/NDF : 5746055.5/47

Out: 1208.111+/-0.159 χ^2/NDF : 7464278.6/54

All: 1209.535+/-0.115 χ^2/NDF : 13210500.5/101

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -38.150 ± 25.944 $\chi^2/\text{NDF}: 25.0/24$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -25.457 ± 24.194 $\chi^2/\text{NDF}: 24.0/29$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

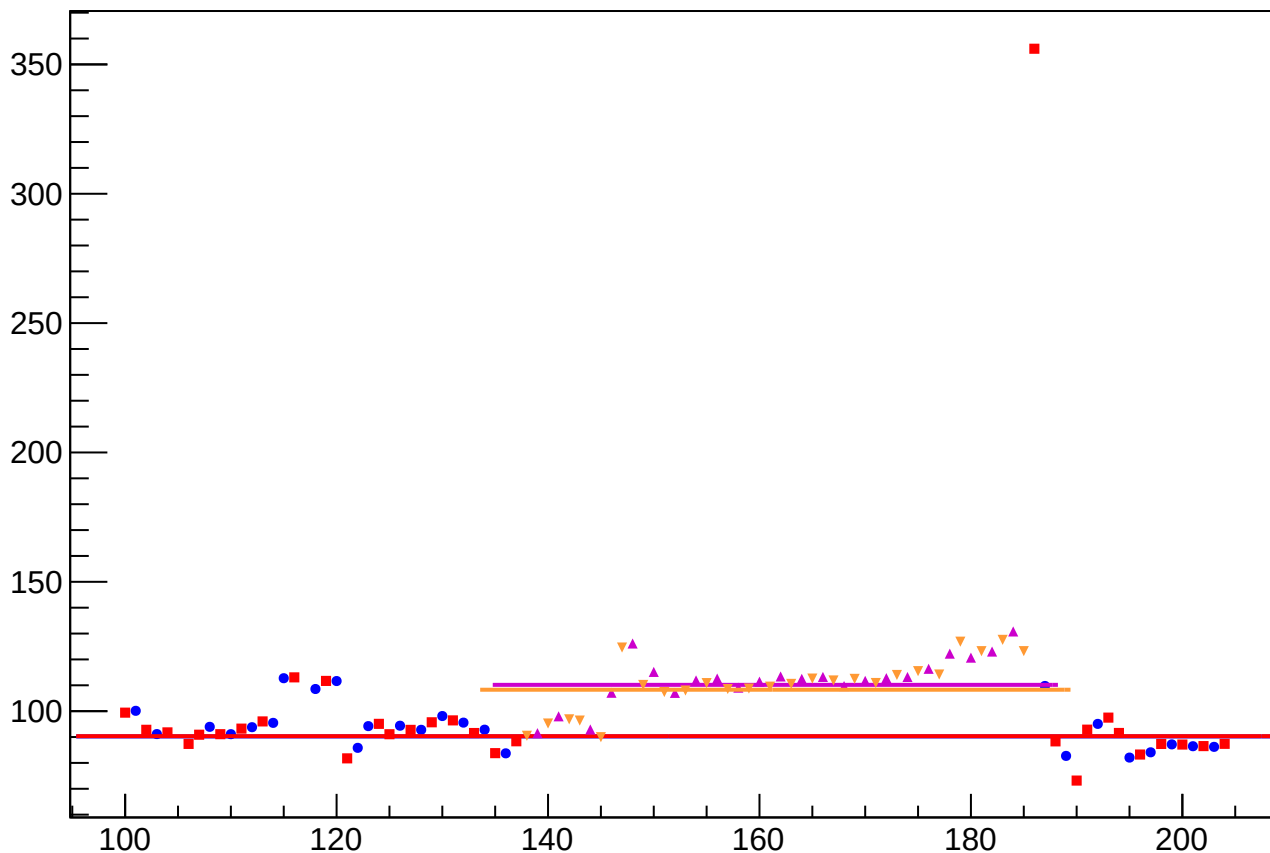
Right: -31.361 ± 17.694 $\chi^2/\text{NDF}: 49.2/54$

In: -93.161 ± 18.520 $\chi^2/\text{NDF}: 54.9/47$

Out: -102.517 ± 17.488 $\chi^2/\text{NDF}: 71.9/54$

All: -98.107 ± 12.715 $\chi^2/\text{NDF}: 126.9/102$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 90.231+/-0.018 χ^2/NDF : 152361.2/24

Left Out: 108.287+/-0.018 χ^2/NDF : 330693.5/24

Right Out: 90.334+/-0.017 χ^2/NDF : 570681.5/29

Left In: 110.173+/-0.019 χ^2/NDF : 246967.7/22

Left: 109.189+/-0.013 χ^2/NDF : 582969.0/47

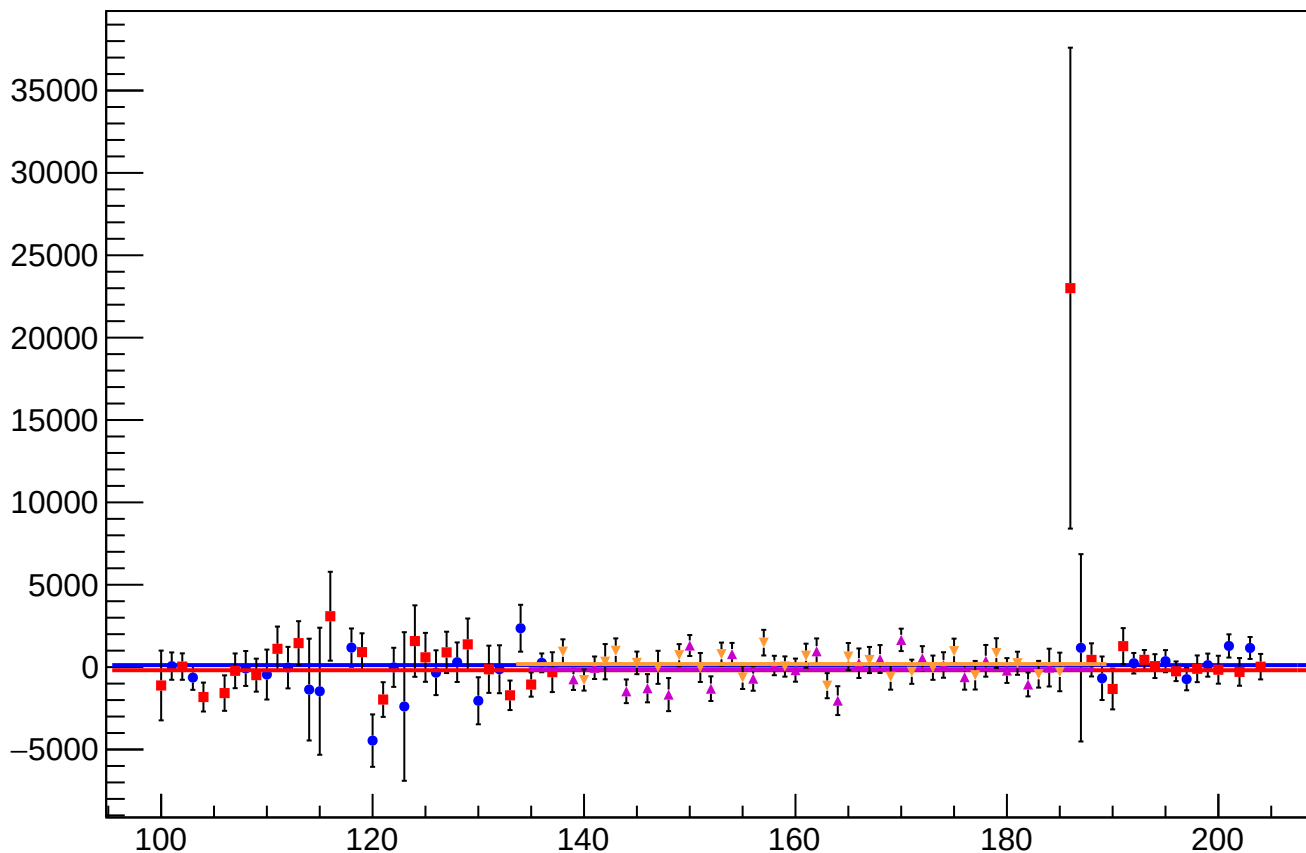
Right: 90.286+/-0.013 χ^2/NDF : 723059.4/54

In: 100.012+/-0.013 χ^2/NDF : 978849.6/47

Out: 98.907+/-0.012 χ^2/NDF : 1427283.4/54

All: 99.427+/-0.009 χ^2/NDF : 2409896.9/102

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 120.995+/-192.802 χ^2/NDF : 23.4/24

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -188.394+/-180.369 χ^2/NDF : 27.1/29

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

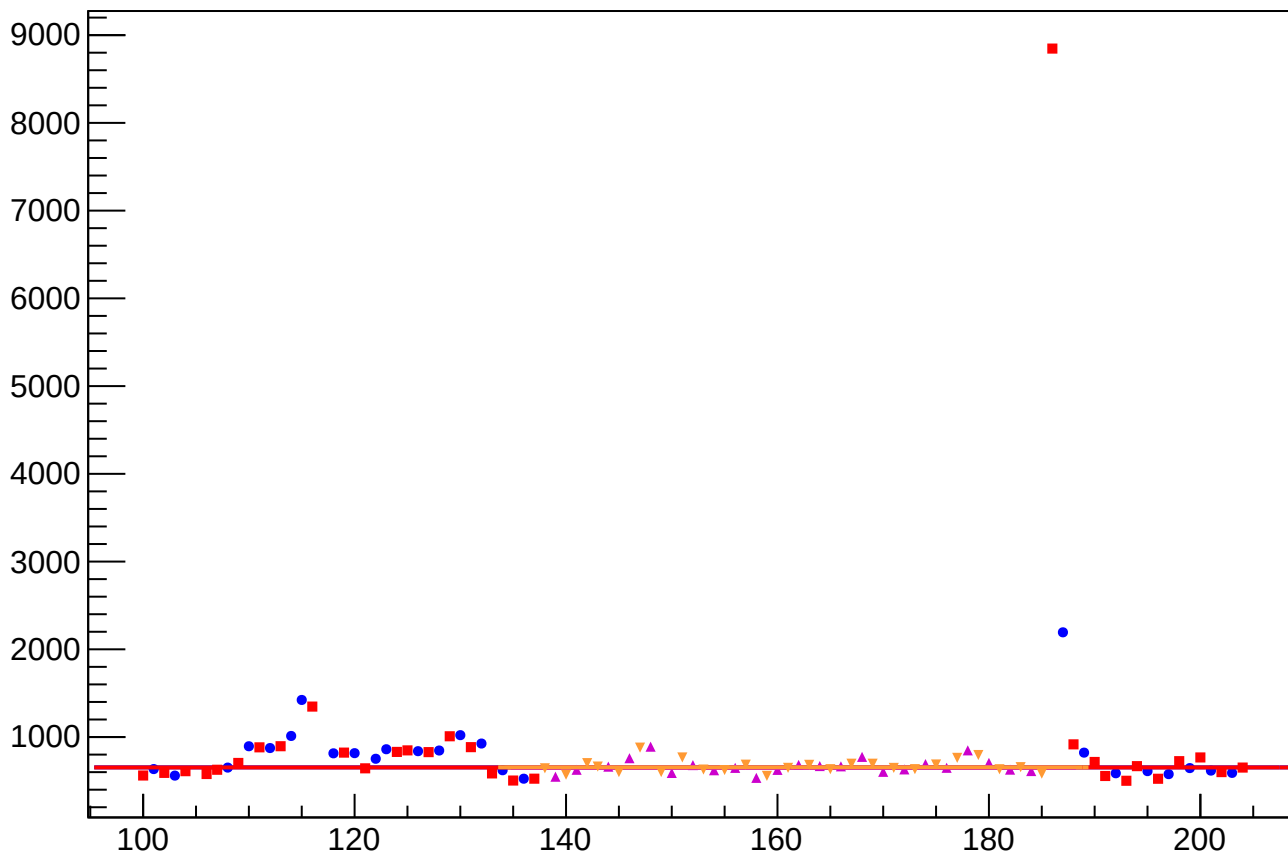
Right: -43.996+/-131.716 χ^2/NDF : 51.8/54

In: -29.074+/-121.815 χ^2/NDF : 60.6/47

Out: 28.170+/-116.979 χ^2/NDF : 47.9/54

All: 0.707+/-84.374 χ^2/NDF : 108.6/102

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 654.488 $\pm$ 0.136 χ^2 /NDF: 980025.4/24

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.604 $\pm$ 0.128 χ^2 /NDF: 1765609.7/29

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

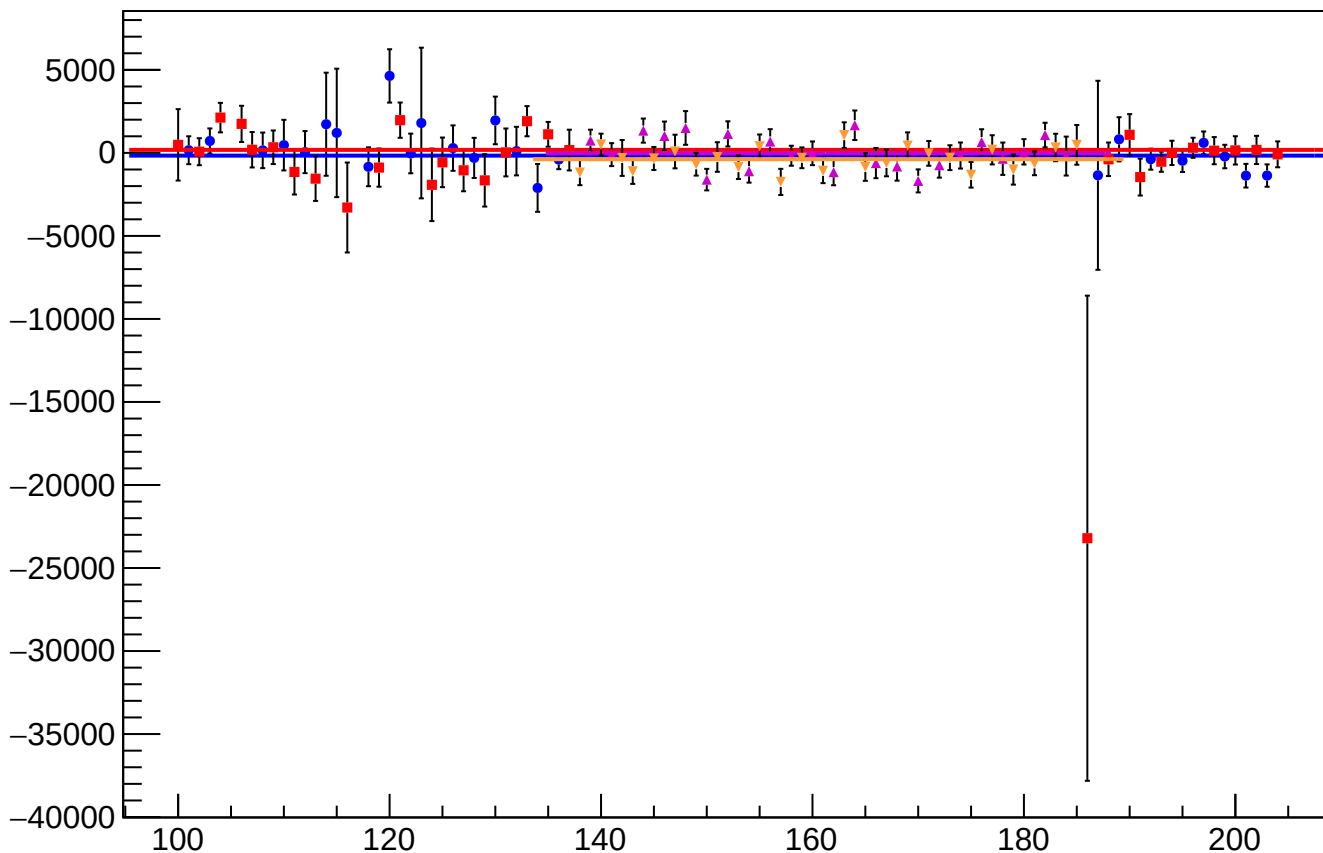
Right: 654.017 $\pm$ 0.093 χ^2 /NDF: 2745657.5/54

In: 652.322 $\pm$ 0.086 χ^2 /NDF: 1446562.1/47

Out: 654.503 $\pm$ 0.083 χ^2 /NDF: 2133045.2/54

All: 653.457 $\pm$ 0.060 χ^2 /NDF: 3579940.8/102

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -164.355 ± 194.804 χ^2/NDF : 24.3/24

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 181.161 ± 182.335 χ^2/NDF : 30.8/29

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

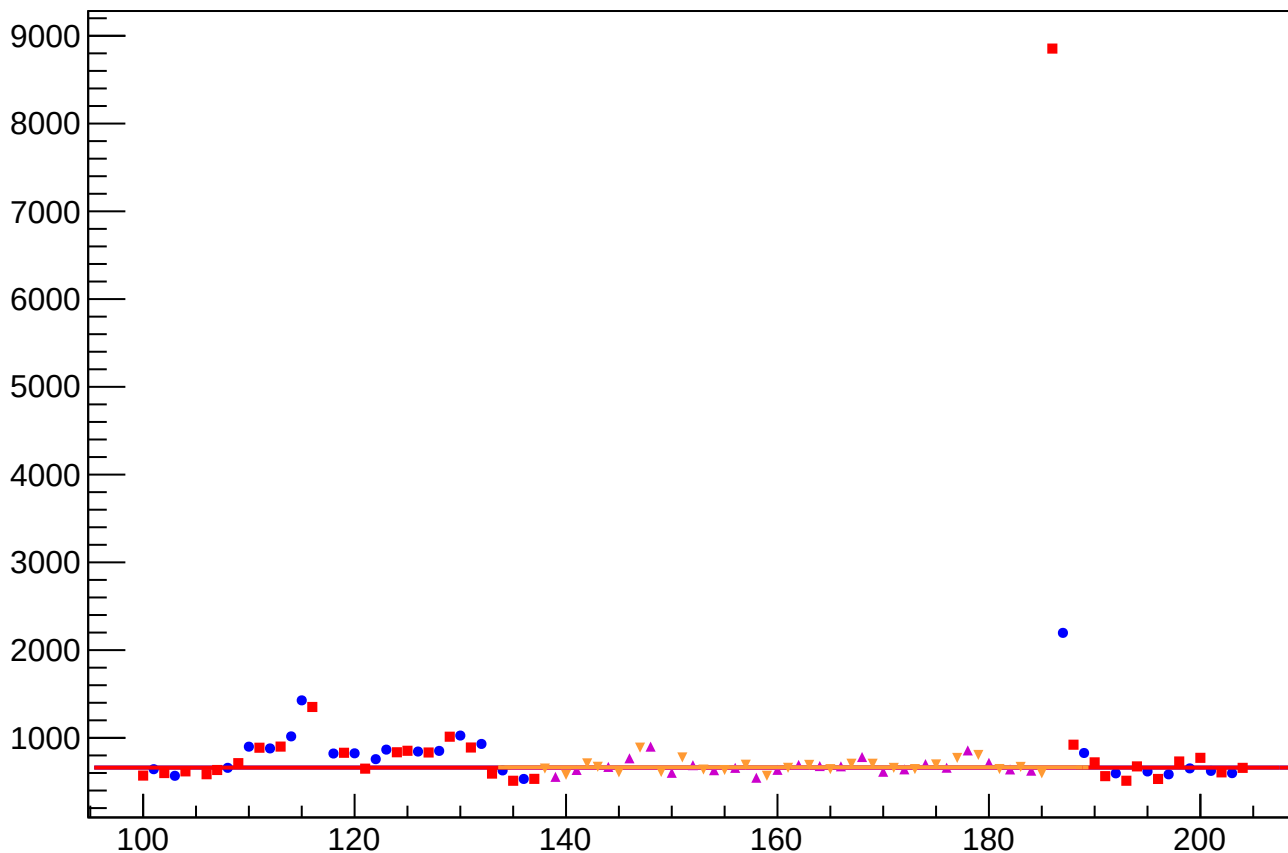
Right: 19.815 ± 133.120 χ^2/NDF : 56.8/54

In: -74.808 ± 123.417 χ^2/NDF : 61.9/47

Out: -142.718 ± 118.489 χ^2/NDF : 55.1/54

All: -110.146 ± 85.473 χ^2/NDF : 117.1/102

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 661.731+/-0.138 χ^2/NDF : 958676.3/24

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.342+/-0.129 χ^2/NDF : 1729247.8/29

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

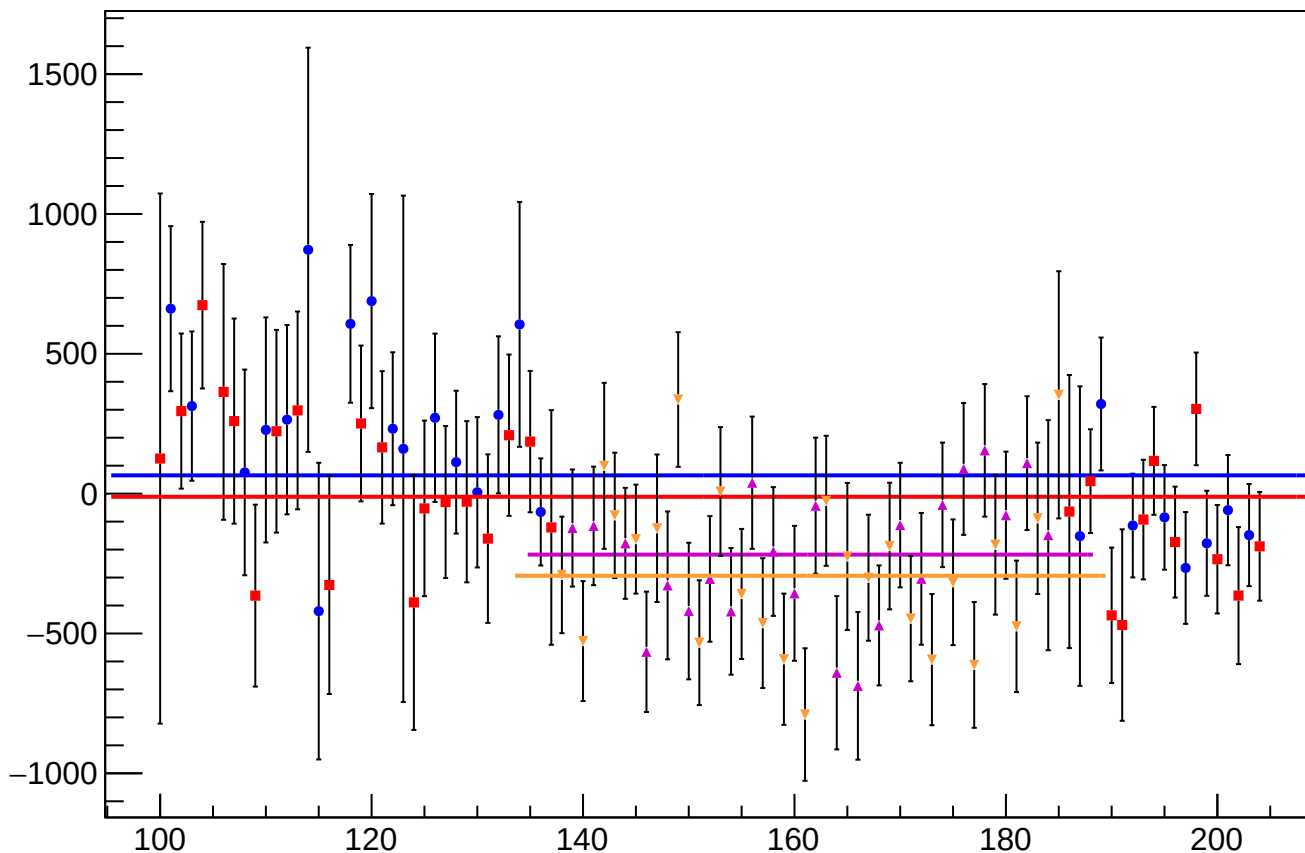
Right: 661.523+/-0.094 χ^2/NDF : 2687928.3/54

In: 661.228+/-0.087 χ^2/NDF : 1407878.6/47

Out: 663.324+/-0.084 χ^2/NDF : 2086710.6/54

All: 662.318+/-0.060 χ^2/NDF : 3494889.4/102

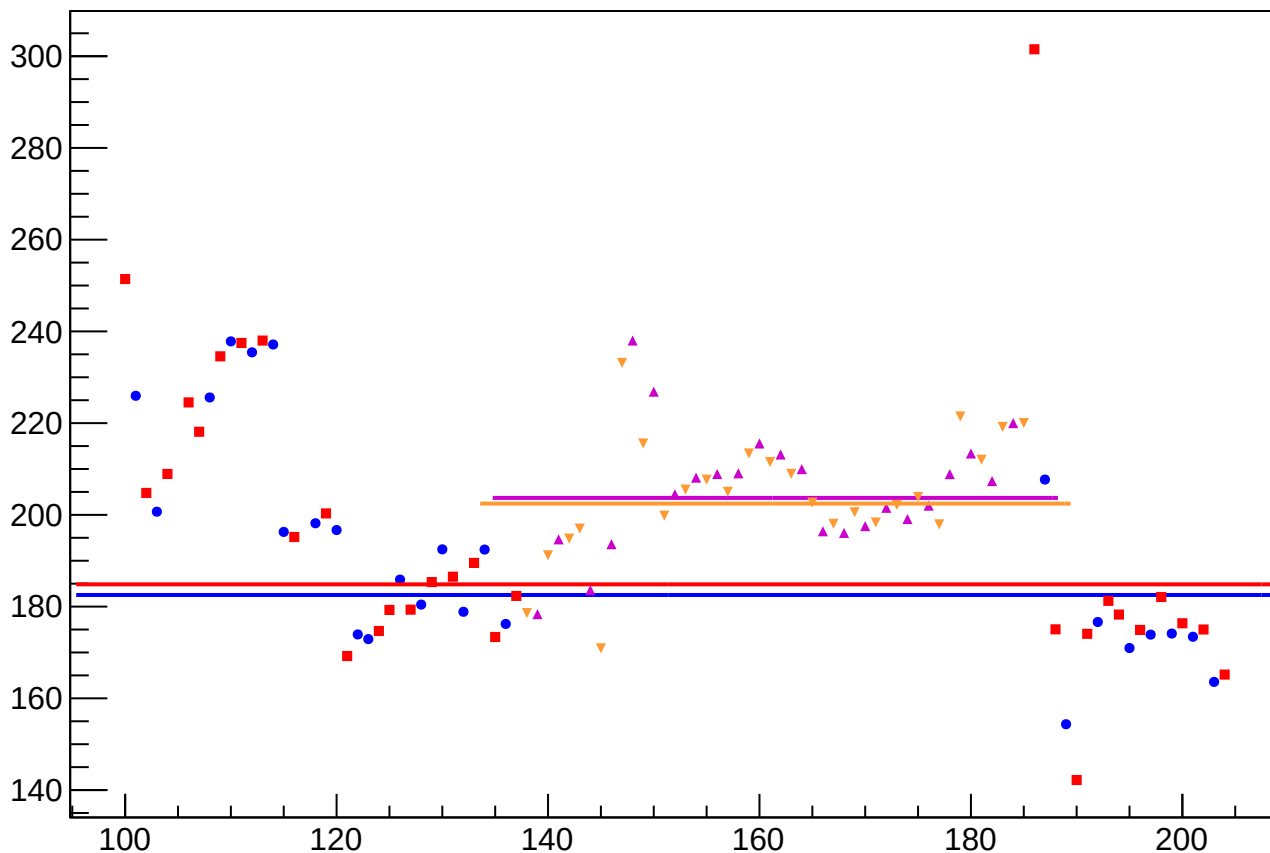
reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 65.384 ± 52.663 $\chi^2/\text{NDF}: 26.5/24$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: -11.117 ± 49.516 $\chi^2/\text{NDF}: 27.2/29$
 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: 24.780 ± 36.074 $\chi^2/\text{NDF}: 54.8/54$
 In: -87.007 ± 35.802 $\chi^2/\text{NDF}: 63.3/47$
 Out: -159.106 ± 34.166 $\chi^2/\text{NDF}: 74.5/54$
 All: -124.741 ± 24.717 $\chi^2/\text{NDF}: 140.0/102$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 182.533 $\pm$ 0.037 χ^2 /NDF: 272887.0/24

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 184.849 $\pm$ 0.035 χ^2 /NDF: 439921.5/29

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

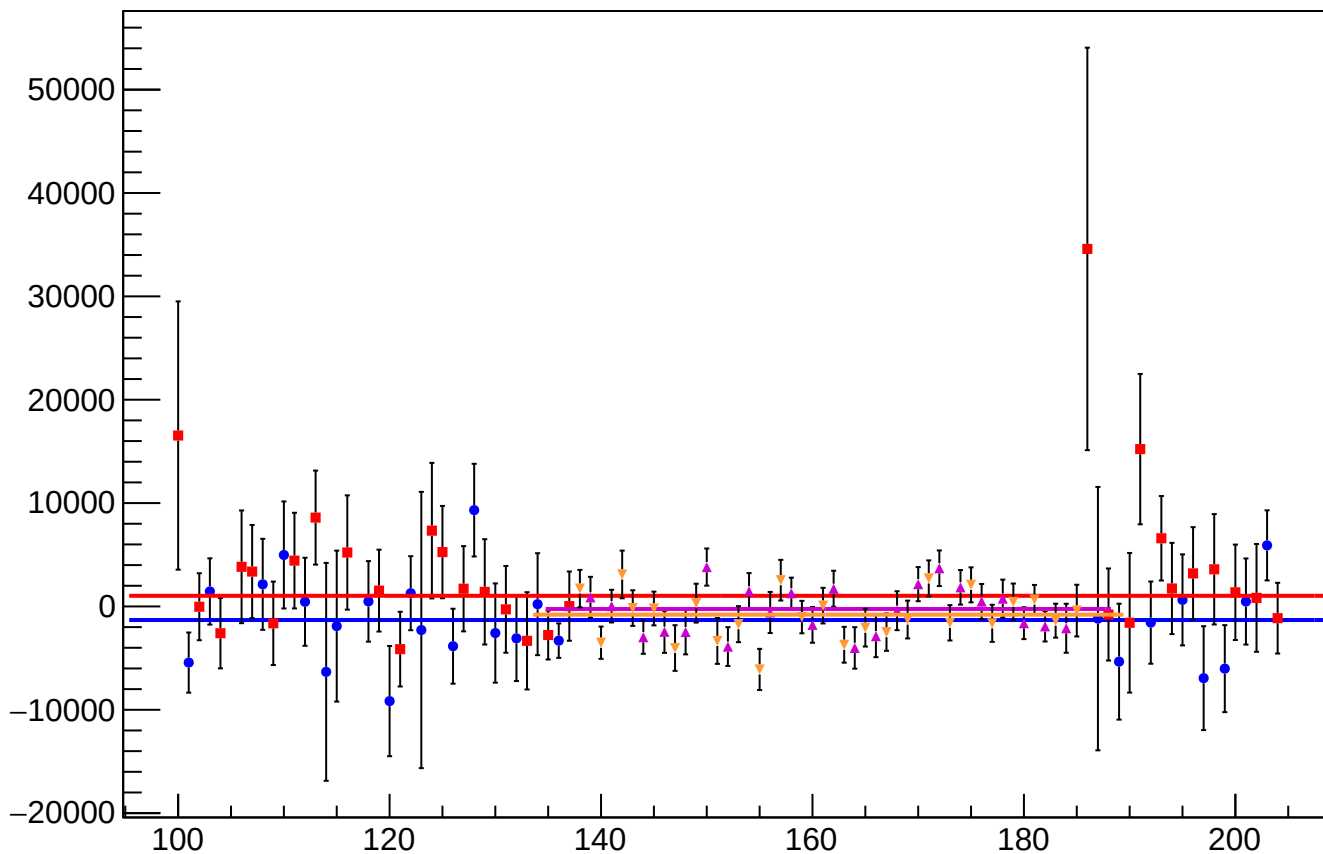
Right: 183.762 $\pm$ 0.026 χ^2 /NDF: 714863.2/54

In: 193.916 $\pm$ 0.025 χ^2 /NDF:582840.0/47

Out: 194.075 $\pm$ 0.024 χ^2 /NDF:731018.4/54

All: 193.999 $\pm$ 0.017 χ^2 /NDF: 1313878.9/102

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1313.847 ± 791.985 $\chi^2/\text{NDF}: 24.0/24$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1029.888 ± 790.719 $\chi^2/\text{NDF}: 24.9/29$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

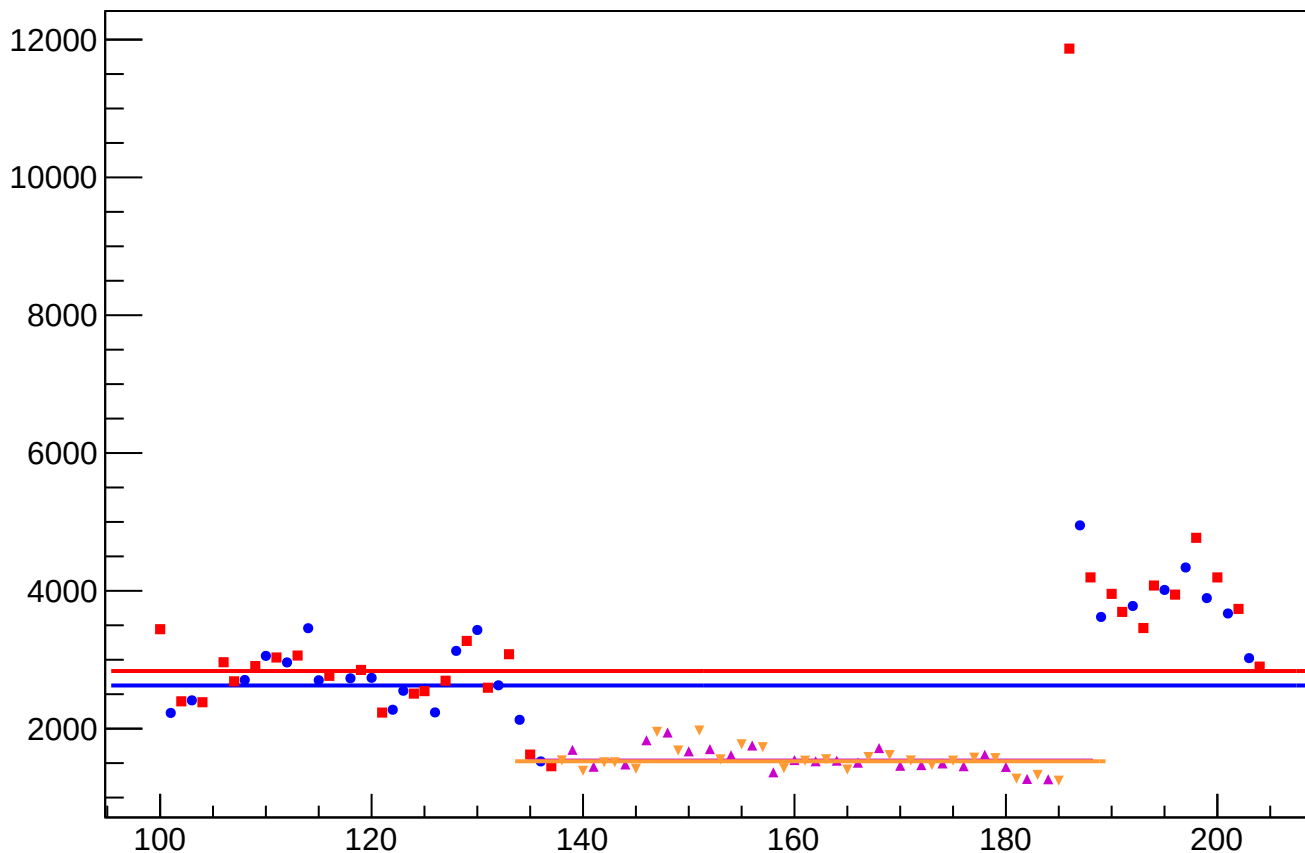
Right: -140.104 ± 559.570 $\chi^2/\text{NDF}: 53.3/54$

In: -436.443 ± 335.107 $\chi^2/\text{NDF}: 61.2/47$

Out: -486.044 ± 326.018 $\chi^2/\text{NDF}: 65.1/54$

All: -461.925 ± 233.677 $\chi^2/\text{NDF}: 126.2/102$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2626.545 $\pm$ 0.560 χ^2 /NDF: 2170502.2/24

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2836.453 $\pm$ 0.559 χ^2 /NDF: 2576119.2/29

Left In: 1536.538 $\pm$ 0.262 χ^2 /NDF: 350373.3/22

Left: 1531.463 $\pm$ 0.182 χ^2 /NDF: 745995.2/47

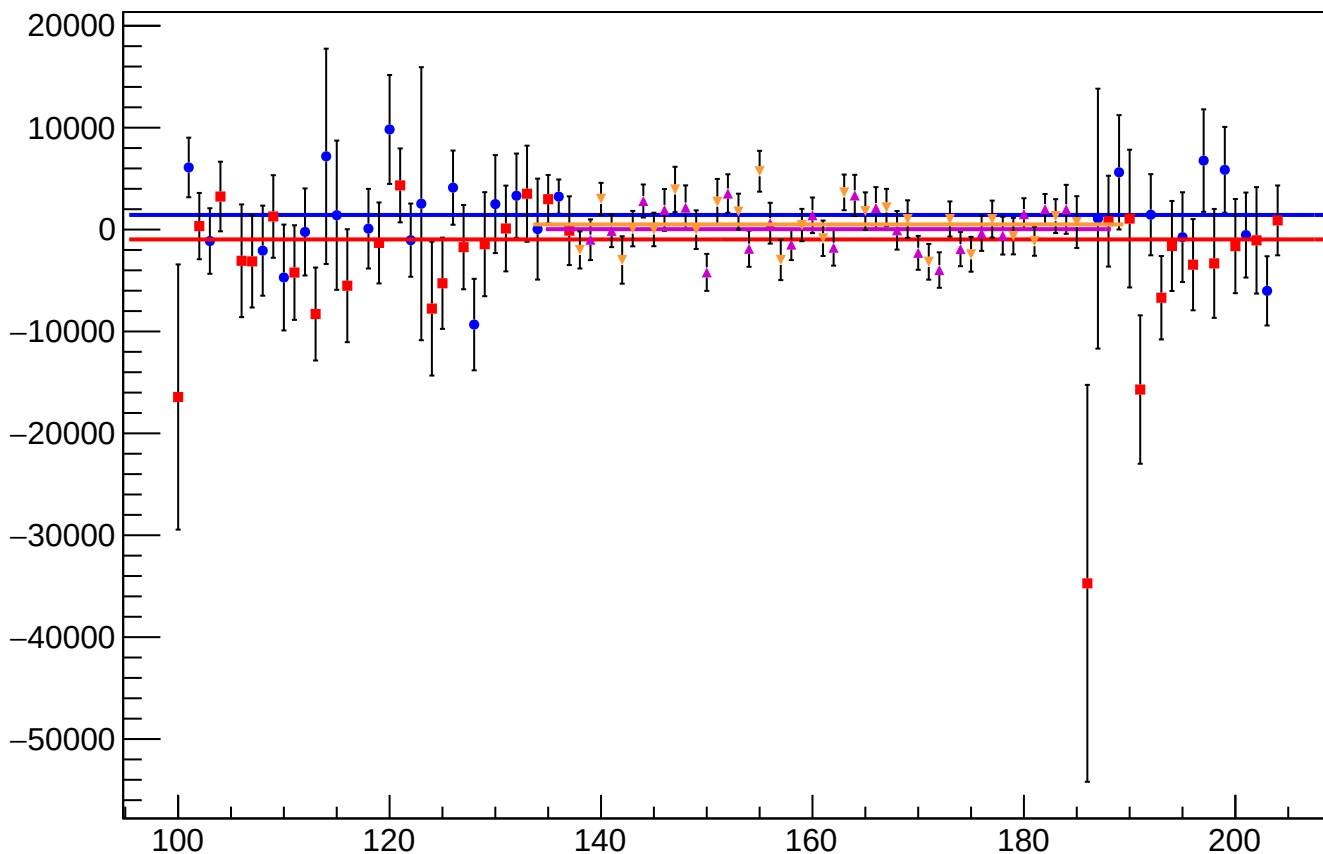
Right: 2731.667 $\pm$ 0.396 χ^2 /NDF: 4816980.7/54

In: 1731.685 $\pm$ 0.237 χ^2 /NDF: 5631014.6/47

Out: 1749.363 $\pm$ 0.231 χ^2 /NDF: 7525474.9/54

All: 1740.767 $\pm$ 0.165 χ^2 /NDF: 13159349.0/101

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1434.327+/-794.838 χ^2/NDF : 24.5/24

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -966.667+/-793.277 χ^2/NDF : 25.6/29

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

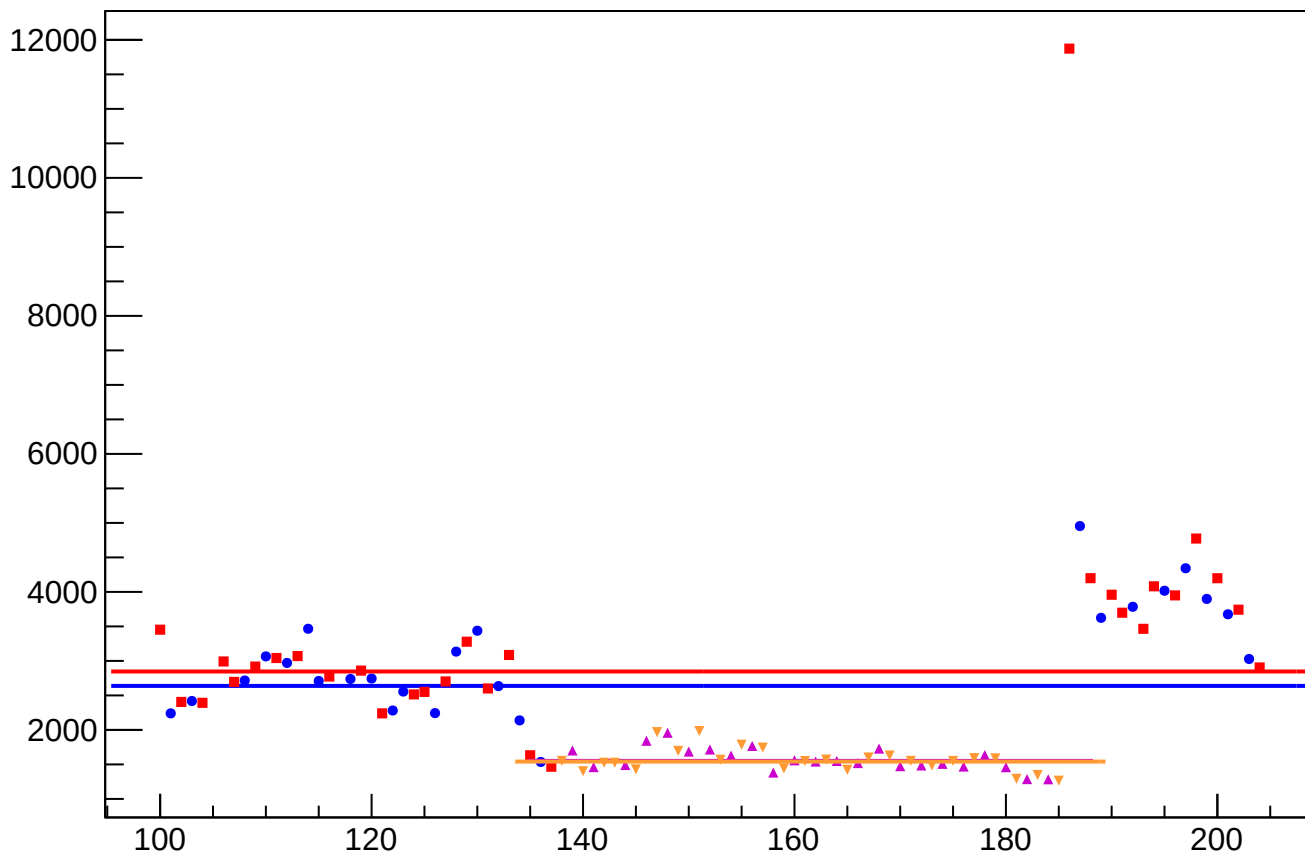
Right: 231.469+/-561.483 χ^2/NDF : 54.7/54

In: 291.998+/-337.861 χ^2/NDF : 60.7/47

Out: 254.786+/-328.707 χ^2/NDF : 63.9/54

All: 272.881+/-235.601 χ^2/NDF : 124.5/102

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2637.814 $\pm$ 0.562 χ^2/NDF : 2141865.4/24

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF : 382045.4/24

Right Out: 2846.727 $\pm$ 0.561 χ^2/NDF : 2551560.0/29

Left In: 1551.063 $\pm$ 0.264 χ^2/NDF : 338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2/NDF : 721657.1/47

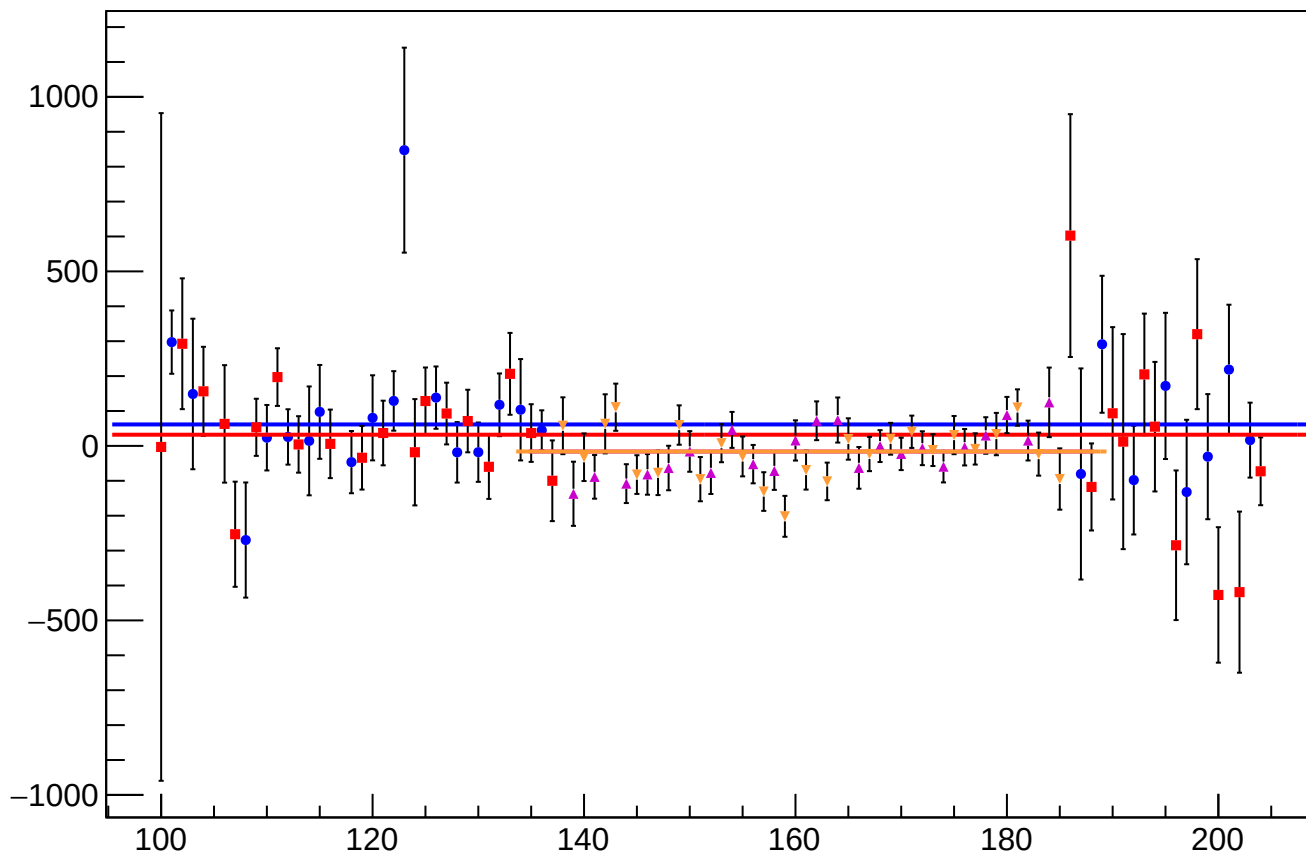
Right: 2742.476 $\pm$ 0.397 χ^2/NDF : 4762645.0/54

In: 1747.422 $\pm$ 0.239 χ^2/NDF : 5544021.3/47

Out: 1765.406 $\pm$ 0.232 χ^2/NDF : 7420043.2/54

All: 1756.661 $\pm$ 0.167 χ^2/NDF : 12966975.8/101

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 61.470 ± 22.155 $\chi^2/\text{NDF}: 28.7/24$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 32.042 ± 21.658 $\chi^2/\text{NDF}: 37.3/29$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

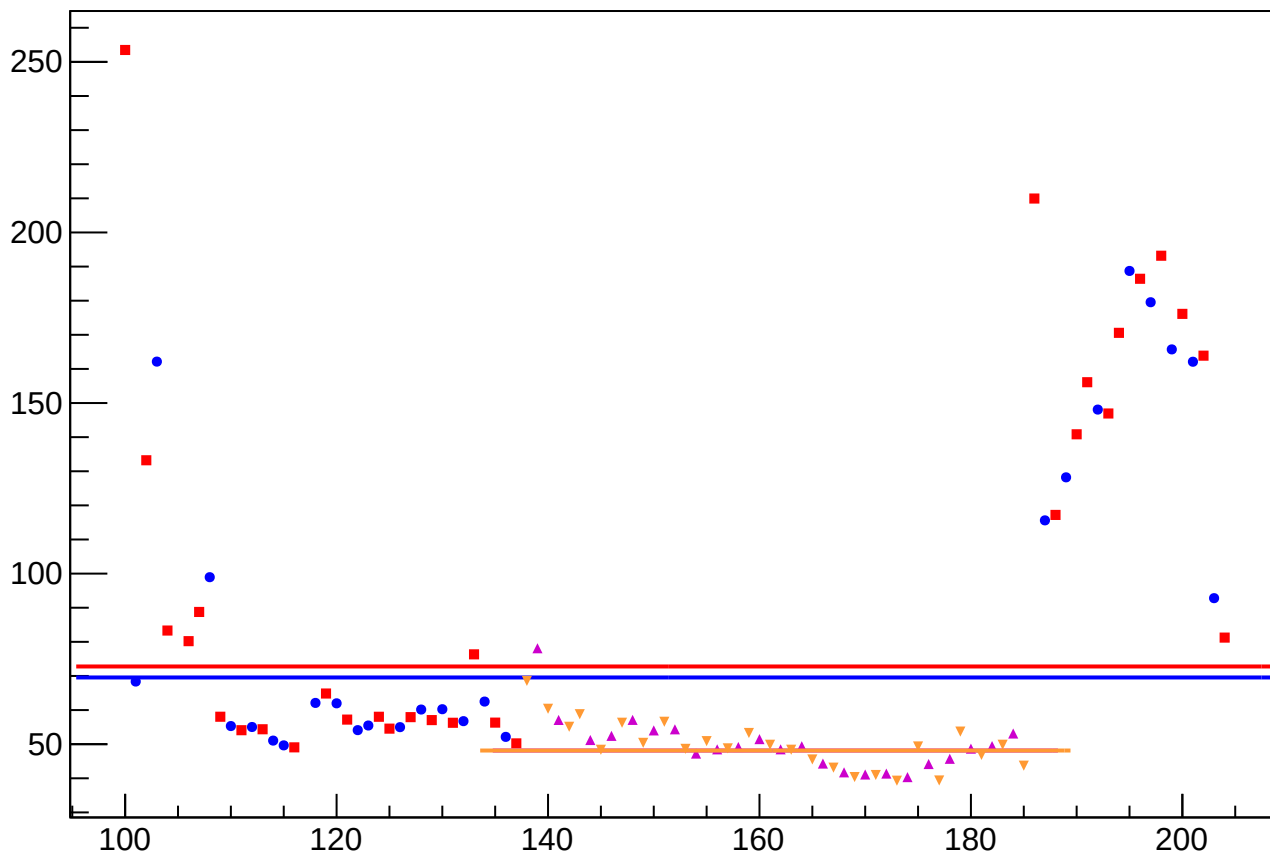
Right: 46.423 ± 15.487 $\chi^2/\text{NDF}: 67.0/54$

In: 0.653 ± 10.311 $\chi^2/\text{NDF}: 63.6/47$

Out: -5.702 ± 10.046 $\chi^2/\text{NDF}: 80.9/54$

All: -2.607 ± 7.196 $\chi^2/\text{NDF}: 144.7/102$

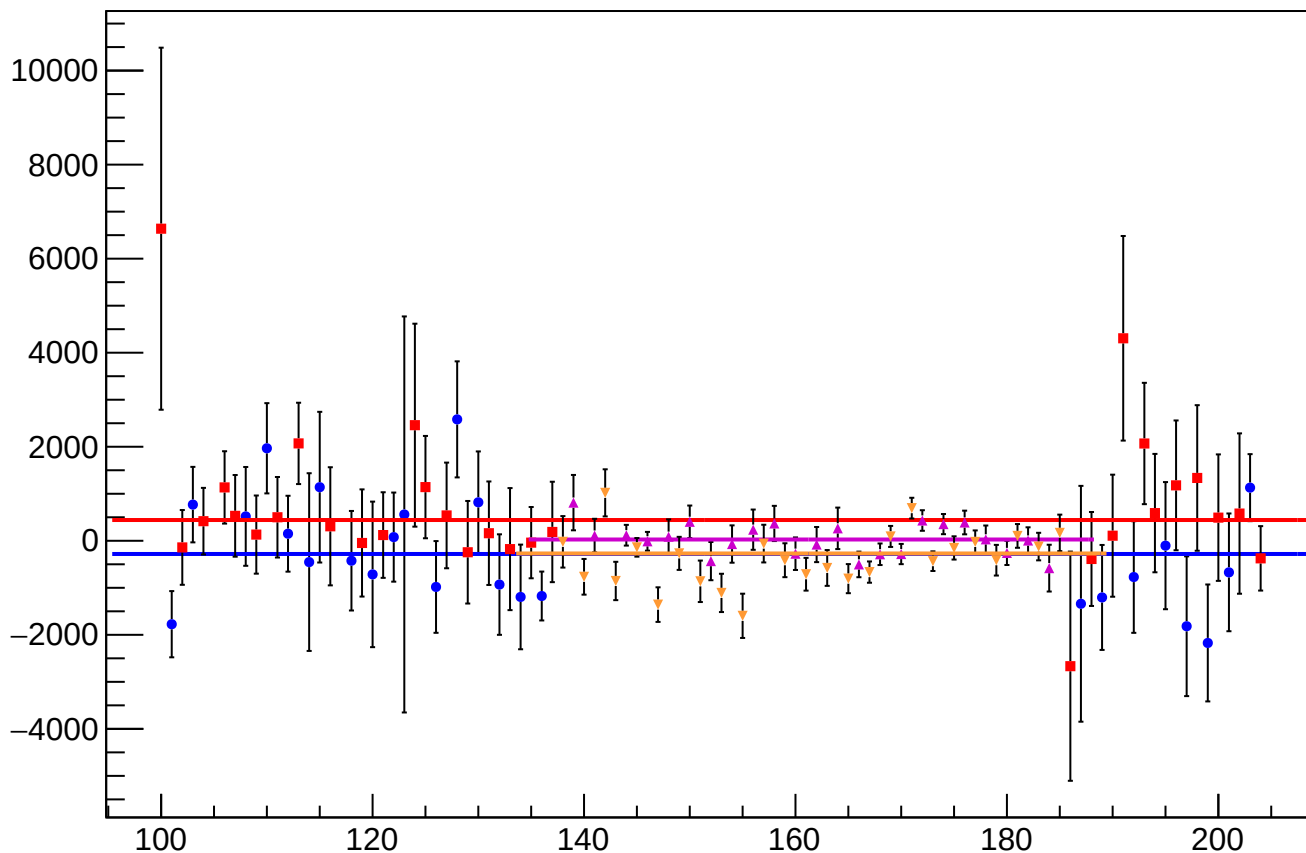
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 69.557 $\pm$ 0.016 χ^2 /NDF: 4151917.2/24
 Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF:655250.3/24
 Right Out: 72.779 $\pm$ 0.015 χ^2 /NDF: 5073568.6/29
 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: 71.204 $\pm$ 0.011 χ^2 /NDF: 9247110.7/54
 In: 52.778 $\pm$ 0.007 χ^2 /NDF:6191256.2/47
 Out: 53.442 $\pm$ 0.007 χ^2 /NDF:7760163.0/54
 All: 53.119 $\pm$ 0.005 χ^2 /NDF: 13955667.9/102

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -280.631 $\pm$ 203.632 χ^2 /NDF: 33.0/24

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 441.634 $\pm$ 191.316 χ^2 /NDF: 19.6/29

Left In: 27.271 $\pm$ 60.430 χ^2 /NDF:25.1/22

Left: -122.095 $\pm$ 42.641 χ^2 /NDF: 107.3/47

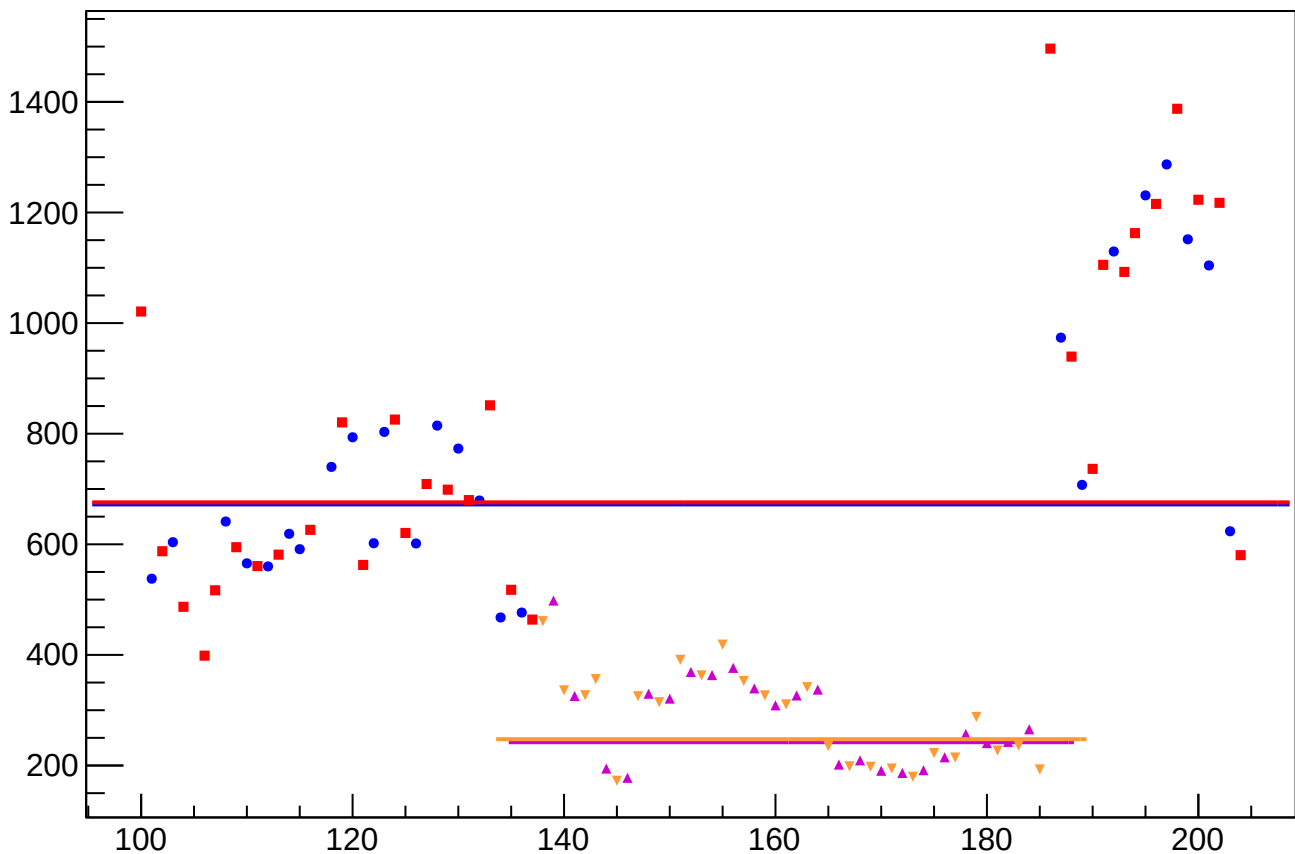
Right: 103.002 $\pm$ 139.432 χ^2 /NDF: 59.3/54

In: 2.350 $\pm$ 57.933 χ^2 /NDF:60.2/47

Out: -206.126 $\pm$ 57.405 χ^2 /NDF:102.3/54

All: -102.843 $\pm$ 40.777 χ^2 /NDF: 169.0/102

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 672.106+/-0.144 χ^2/NDF : 2154303.0/24

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 675.839+/-0.135 χ^2/NDF : 3131001.5/29

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

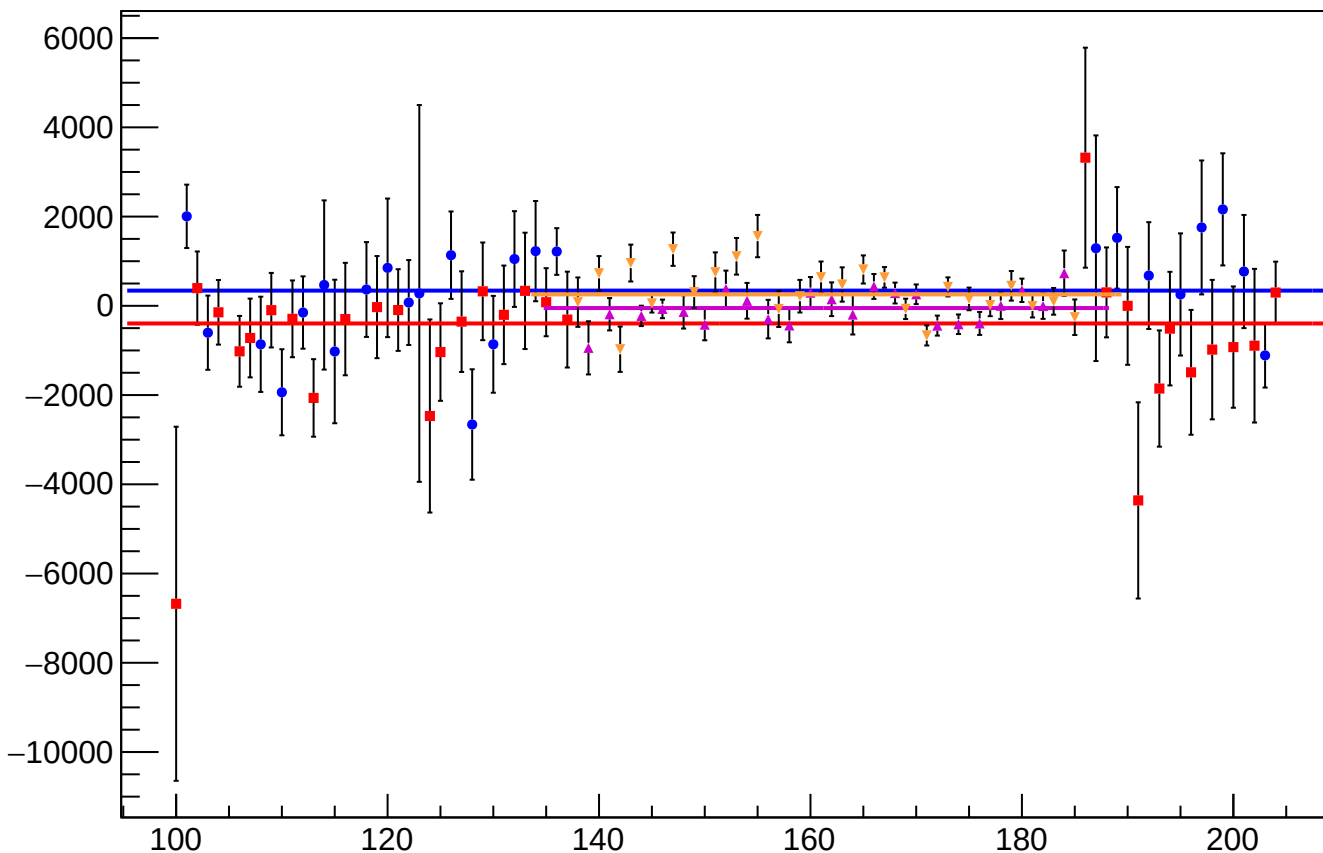
Right: 674.089+/-0.099 χ^2/NDF : 5285661.6/54

In: 276.920+/-0.041 χ^2/NDF : 12816275.0/47

Out: 286.128+/-0.041 χ^2/NDF : 15031747.1/54

All: 281.566+/-0.029 χ^2/NDF : 27873515.8/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 340.800 $\pm$ 205.552 χ^2 /NDF: 35.0/24

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -395.209 $\pm$ 193.486 χ^2 /NDF: 20.1/29

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

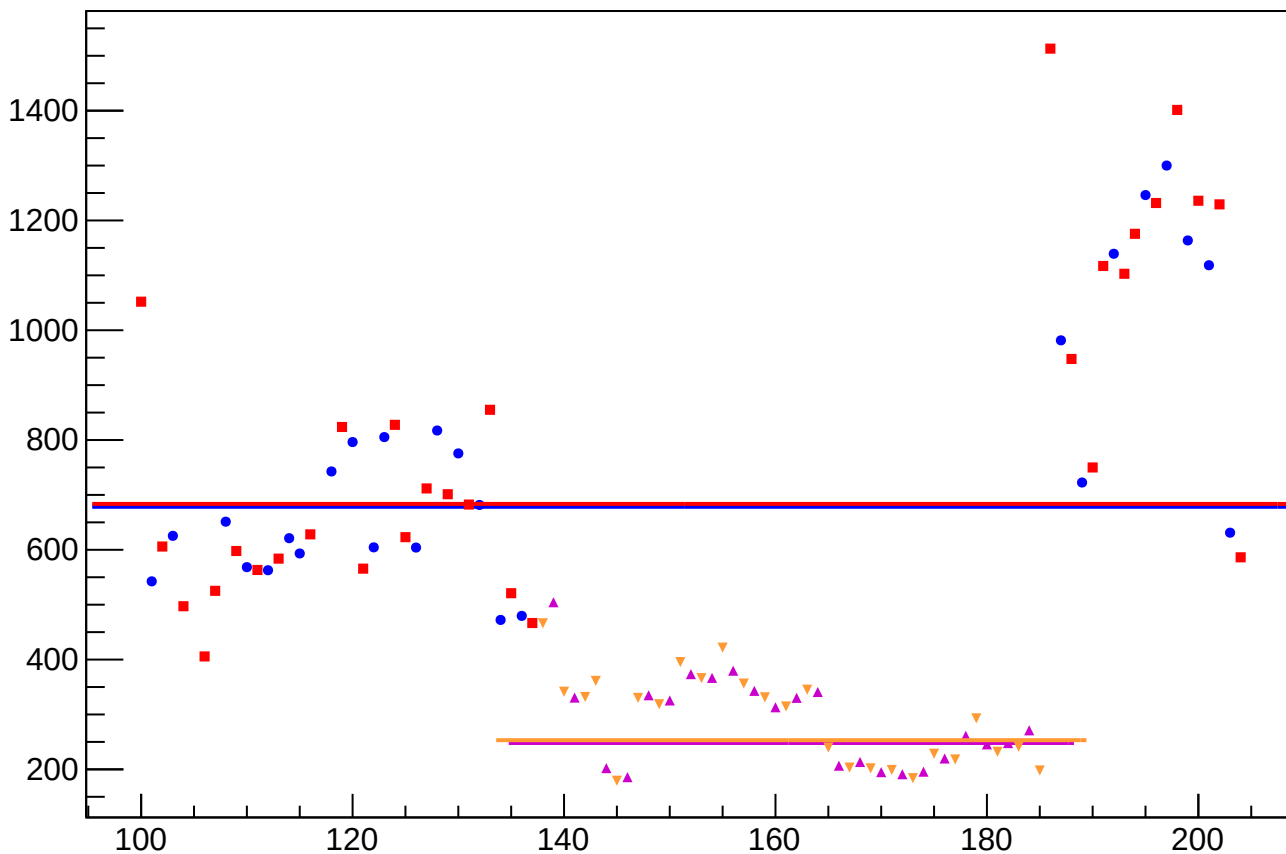
Right: -49.440 $\pm$ 140.888 χ^2 /NDF: 61.9/54

In: -17.467 $\pm$ 59.166 χ^2 /NDF:65.8/47

Out: 196.385 $\pm$ 58.540 χ^2 /NDF:94.0/54

All: 90.597 $\pm$ 41.614 χ^2 /NDF: 166.5/102

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 678.392 $\pm$ 0.145 χ^2 /NDF: 2161226.3/24

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 683.595 $\pm$ 0.137 χ^2 /NDF: 3107037.4/29

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF: 2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

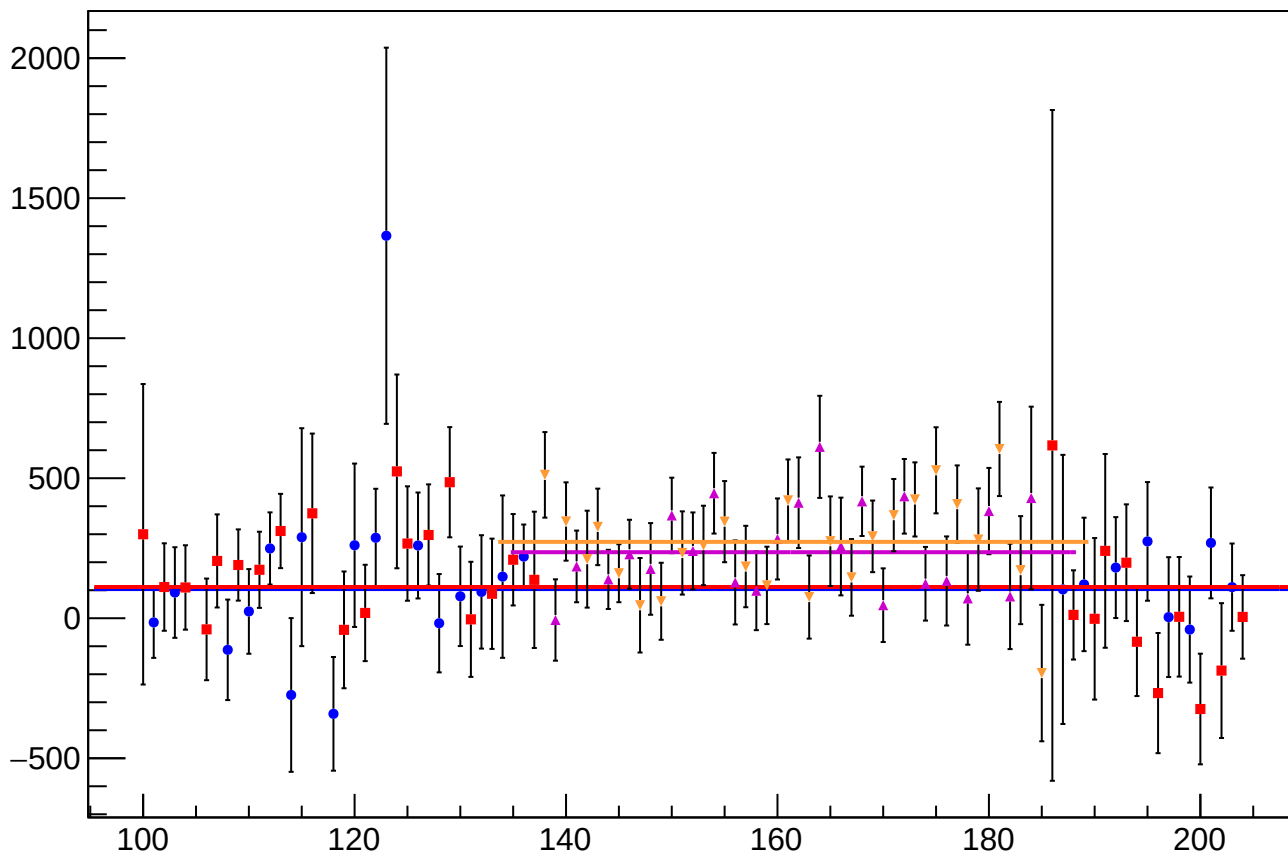
Right: 681.151 $\pm$ 0.100 χ^2 /NDF: 5268943.1/54

In: 283.722 $\pm$ 0.042 χ^2 /NDF: 12543785.2/47

Out: 292.540 $\pm$ 0.041 χ^2 /NDF: 14765906.8/54

All: 288.178 $\pm$ 0.029 χ^2 /NDF: 27332142.4/100

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 104.186 $\pm$ 37.205 χ^2 /NDF: 20.3/24

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 111.547 $\pm$ 34.684 χ^2 /NDF: 25.4/29

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

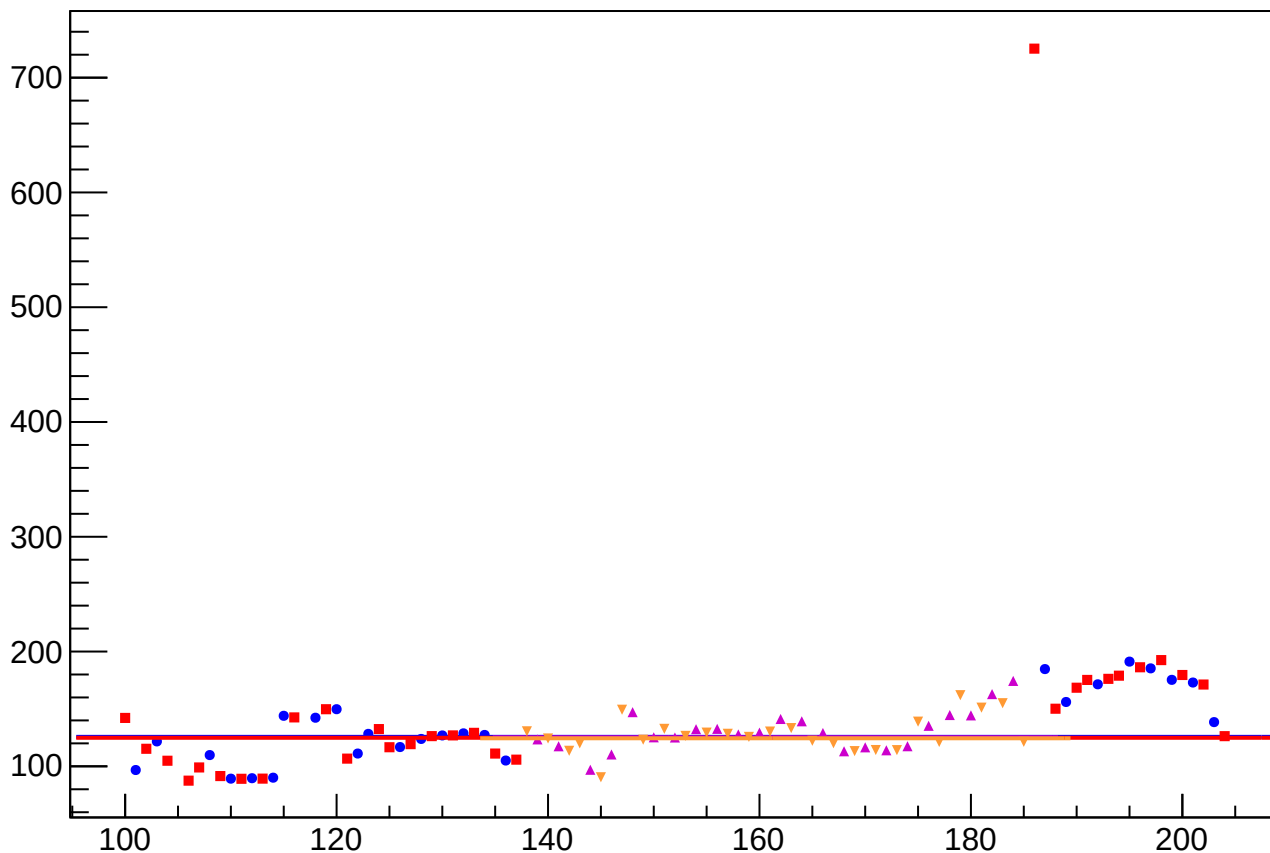
Right: 108.124 $\pm$ 25.370 χ^2 /NDF: 45.7/54

In: 183.459 $\pm$ 23.462 χ^2 /NDF:52.5/47

Out: 205.790 $\pm$ 22.347 χ^2 /NDF:65.4/54

All: 195.168 $\pm$ 16.182 χ^2 /NDF: 118.4/102

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 125.669 $\pm$ 0.026 χ^2 /NDF: 1346777.1/24

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 124.863 $\pm$ 0.025 χ^2 /NDF: 2201348.6/29

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

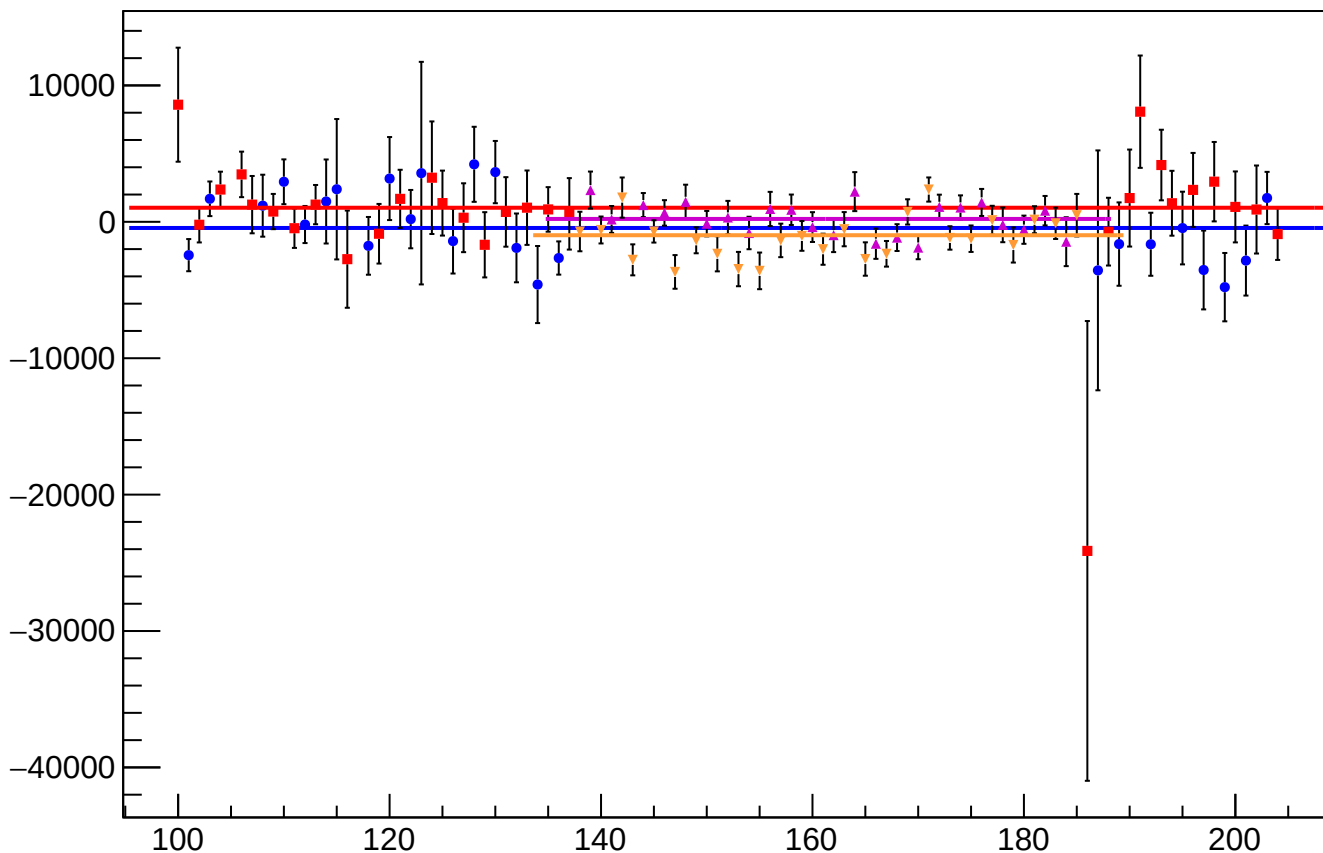
Right: 125.238 $\pm$ 0.018 χ^2 /NDF: 3548628.8/54

In: 125.390 $\pm$ 0.017 χ^2 /NDF: 1848352.8/47

Out: 124.609 $\pm$ 0.016 χ^2 /NDF: 2741263.5/54

All: 124.980 $\pm$ 0.011 χ^2 /NDF: 4590777.9/102

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -450.457+/-416.609 χ^2/NDF : 32.2/24

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1032.436+/-387.178 χ^2/NDF : 21.1/29

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

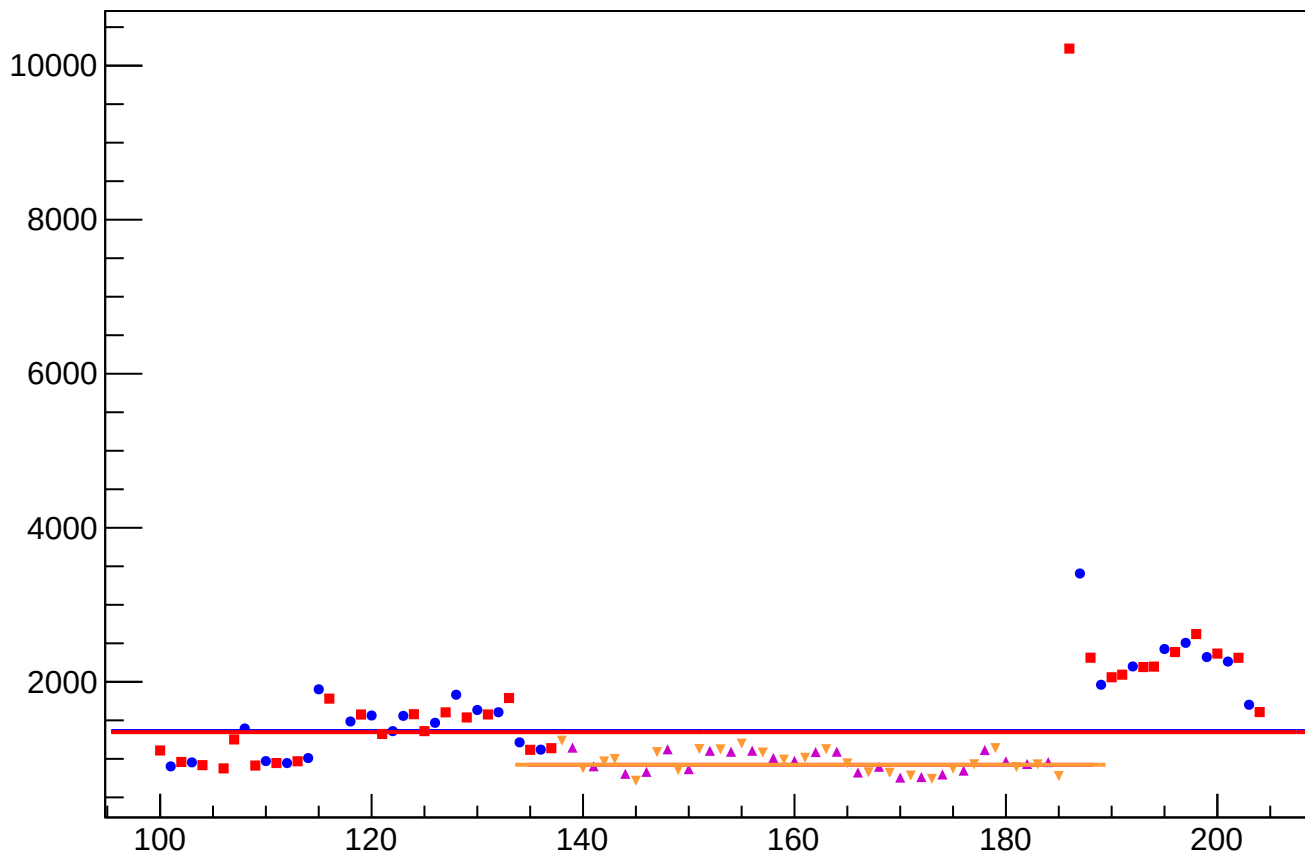
Right: 345.214+/-283.611 χ^2/NDF : 60.1/54

In: 63.710+/-196.809 χ^2/NDF : 59.8/47

Out: -497.666+/-189.973 χ^2/NDF : 88.9/54

All: -226.897+/-136.684 χ^2/NDF : 152.9/102

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1360.932+/-0.295 χ^2/NDF : 2754474.4/24

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1346.725+/-0.274 χ^2/NDF : 3966521.8/29

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

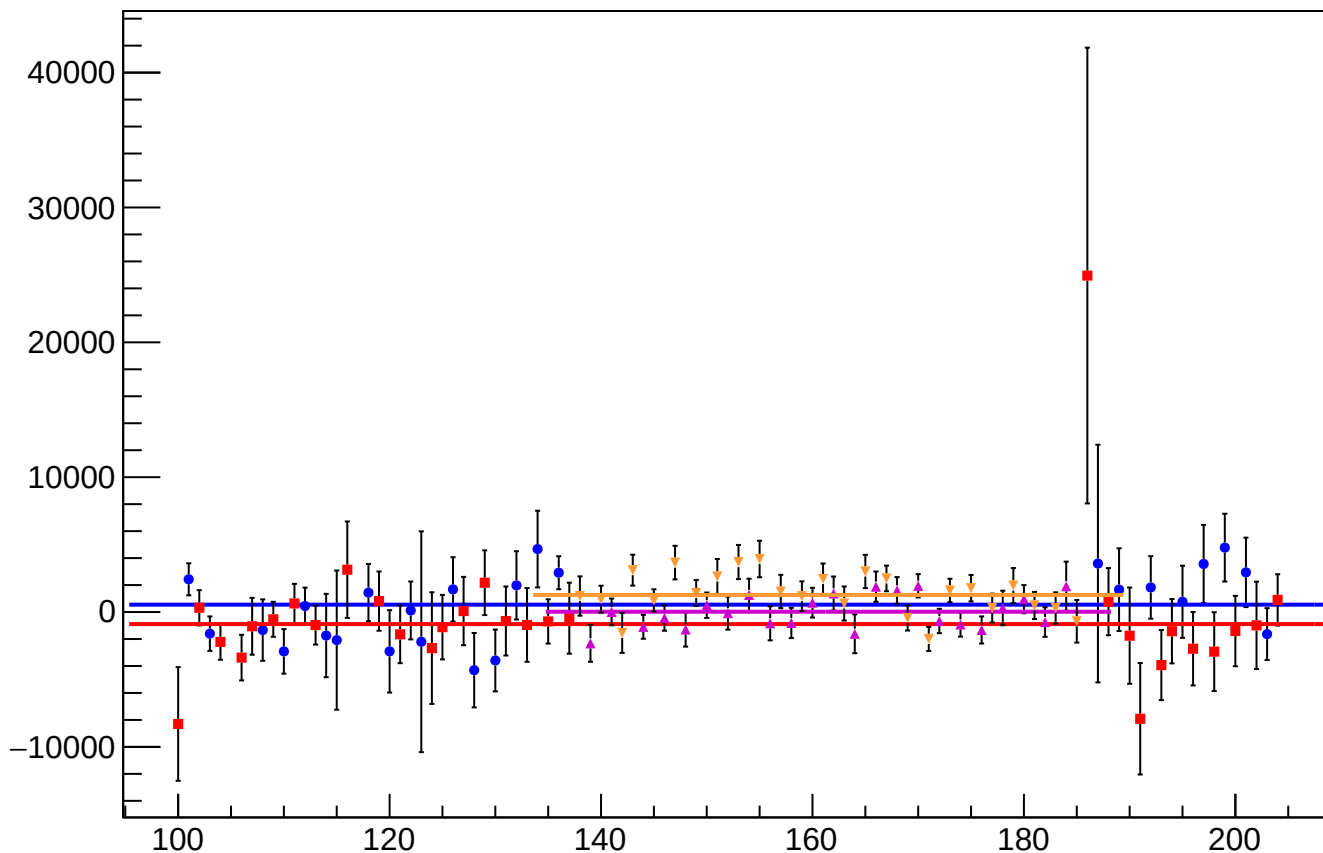
Right: 1353.309+/-0.201 χ^2/NDF : 6722244.2/54

In: 1020.146+/-0.139 χ^2/NDF : 5111883.6/47

Out: 1025.456+/-0.134 χ^2/NDF : 6622957.1/54

All: 1022.895+/-0.097 χ^2/NDF : 11735594.2/100

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 546.493 ± 418.513 $\chi^2/\text{NDF}: 32.3/24$

Left Out: 1267.344 ± 220.133 $\chi^2/\text{NDF}: 44.9/24$

Right Out: -894.114 ± 389.103 $\chi^2/\text{NDF}: 21.4/29$

Left In: 23.478 ± 225.490 $\chi^2/\text{NDF}: 27.2/22$

Left: 660.362 ± 157.518 $\chi^2/\text{NDF}: 87.7/47$

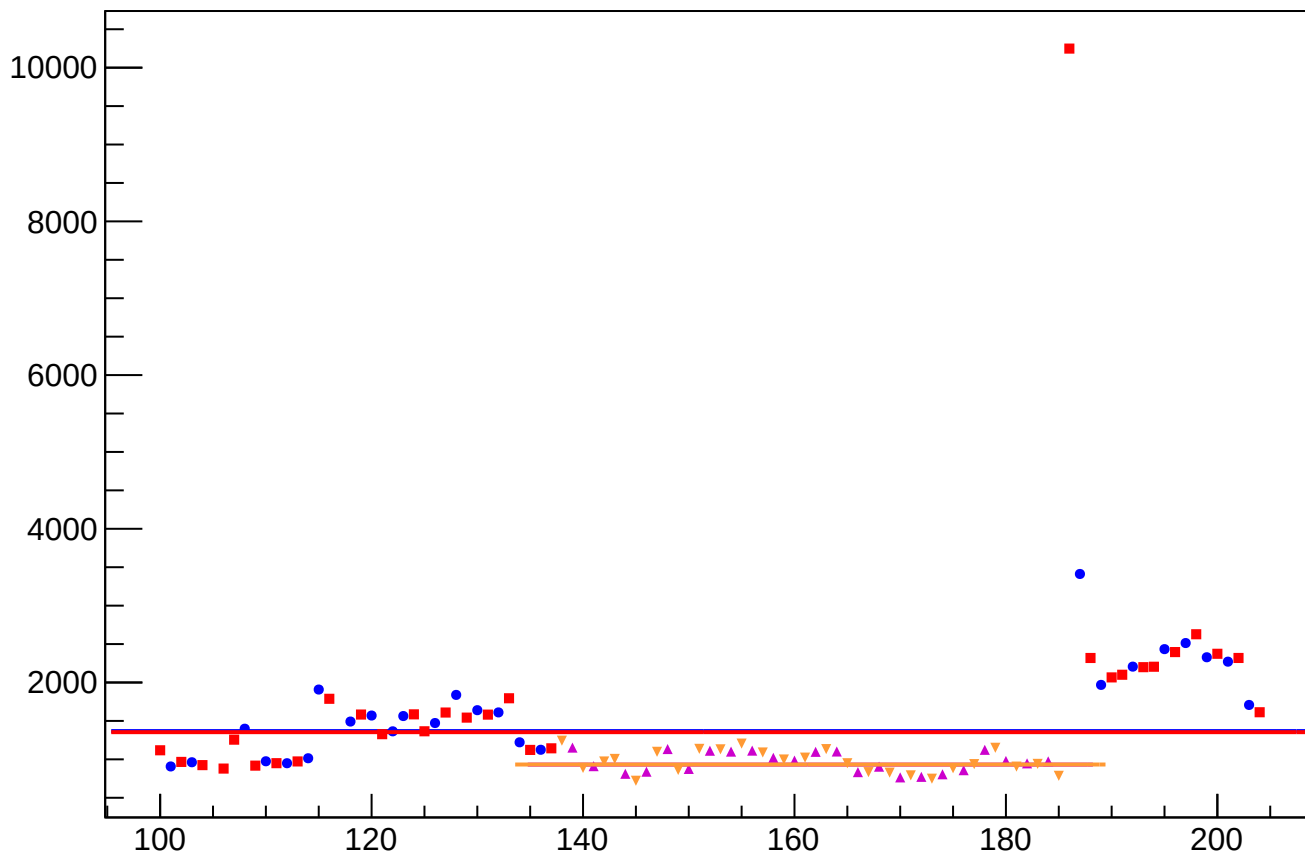
Right: -226.202 ± 284.968 $\chi^2/\text{NDF}: 60.0/54$

In: 141.147 ± 198.511 $\chi^2/\text{NDF}: 60.6/47$

Out: 743.269 ± 191.596 $\chi^2/\text{NDF}: 89.7/54$

All: 452.877 ± 137.859 $\chi^2/\text{NDF}: 155.0/102$

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1367.686 $\pm$ 0.296 χ^2 /NDF: 2739038.6/24

Left Out: 932.764 $\pm$ 0.156 χ^2 /NDF: 829798.4/24

Right Out: 1353.789 $\pm$ 0.275 χ^2 /NDF: 3945844.3/29

Left In: 931.493 $\pm$ 0.159 χ^2 /NDF: 624436.4/22

Left: 932.144 $\pm$ 0.111 χ^2 /NDF: 1454267.3/47

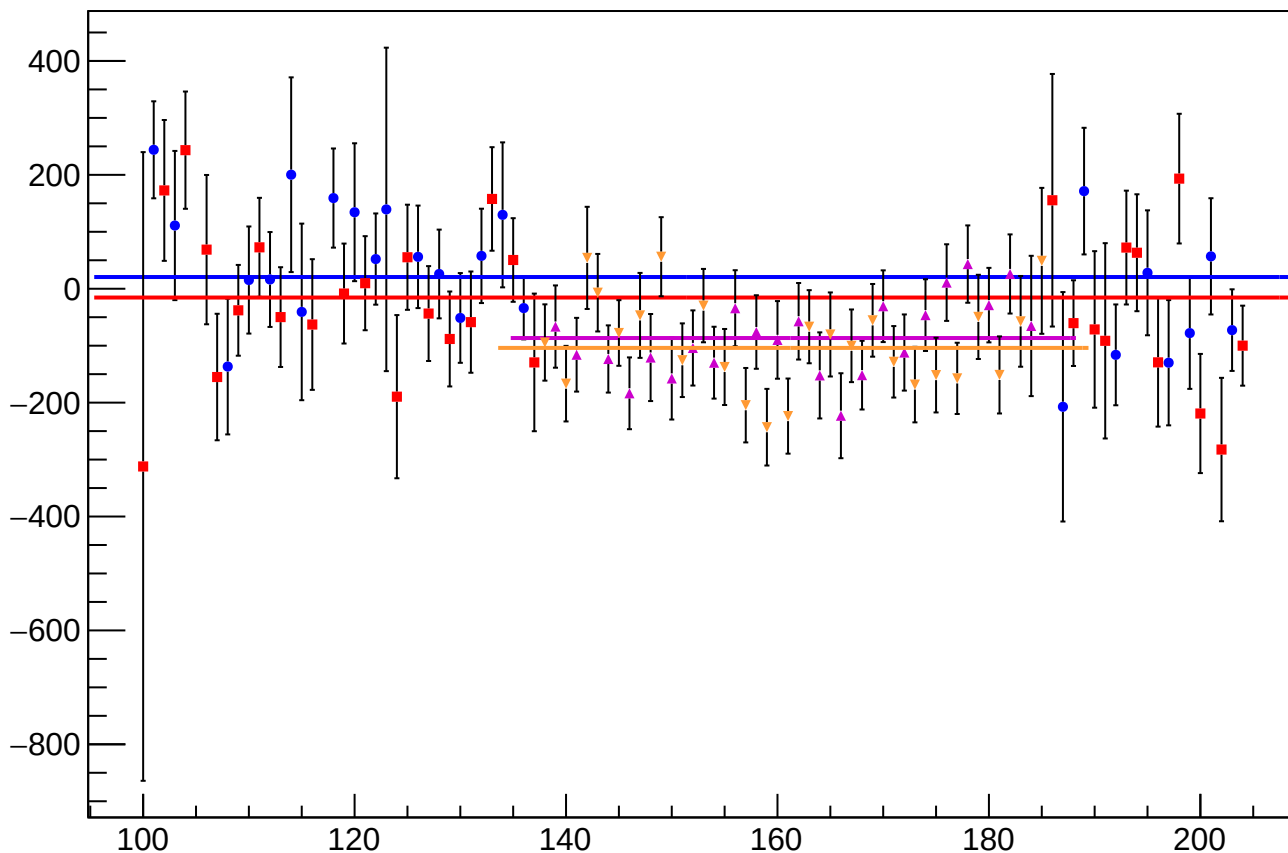
Right: 1360.232 $\pm$ 0.202 χ^2 /NDF: 6686065.7/54

In: 1029.629 $\pm$ 0.140 χ^2 /NDF: 5047240.0/47

Out: 1034.847 $\pm$ 0.135 χ^2 /NDF: 6549509.0/54

All: 1032.330 $\pm$ 0.097 χ^2 /NDF: 11597464.6/101

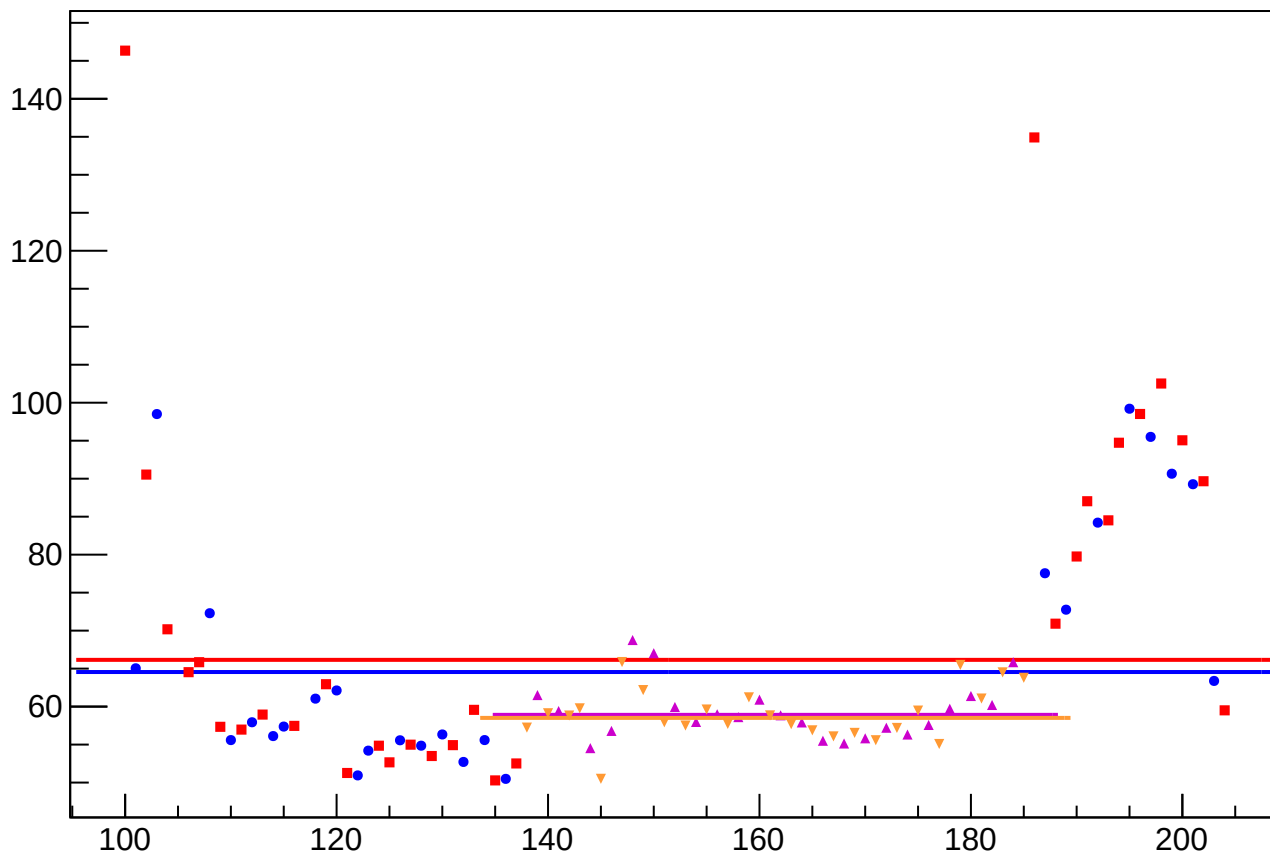
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 20.571 ± 19.072 $\chi^2/\text{NDF}: 27.2/24$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: -15.439 ± 18.191 $\chi^2/\text{NDF}: 37.7/29$
 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: 1.716 ± 13.163 $\chi^2/\text{NDF}: 66.8/54$
 In: -48.618 ± 11.348 $\chi^2/\text{NDF}: 69.0/47$
 Out: -72.058 ± 10.914 $\chi^2/\text{NDF}: 82.8/54$
 All: -60.795 ± 7.866 $\chi^2/\text{NDF}: 154.0/102$

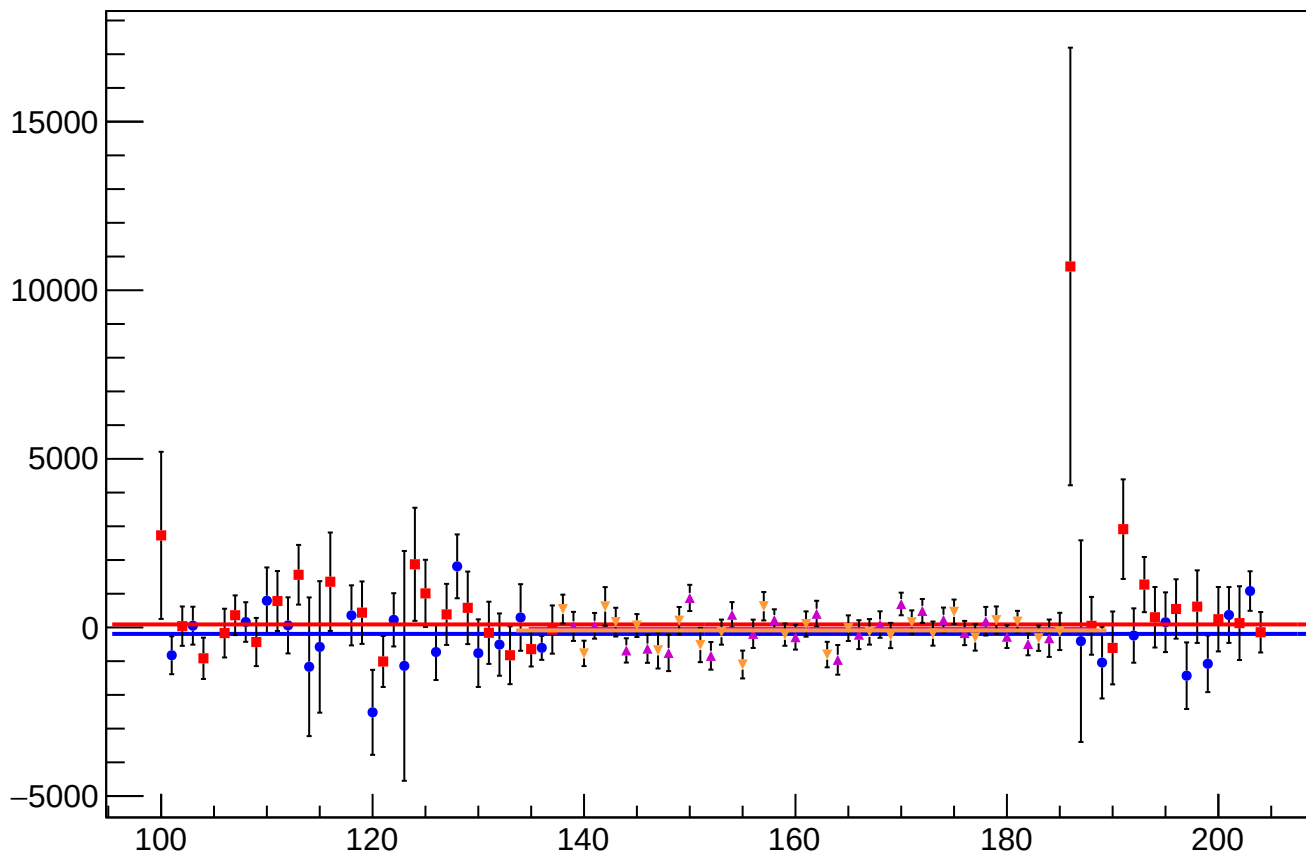
reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.551+/-0.013 χ^2/NDF : 1237197.4/24
 Left Out: 58.513+/-0.010 χ^2/NDF :123221.6/24
 Right Out: 66.153+/-0.013 χ^2/NDF : 1641912.8/29
 Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47
 Right: 65.390+/-0.009 χ^2/NDF : 2886495.7/54
 In: 60.909+/-0.008 χ^2/NDF :1460050.6/47
 Out: 61.263+/-0.008 χ^2/NDF :1990907.0/54
 All: 61.093+/-0.006 χ^2/NDF : 3451965.4/102

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -191.348 ± 158.068 $\chi^2/\text{NDF}: 22.9/24$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 89.805 ± 153.506 $\chi^2/\text{NDF}: 26.2/29$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

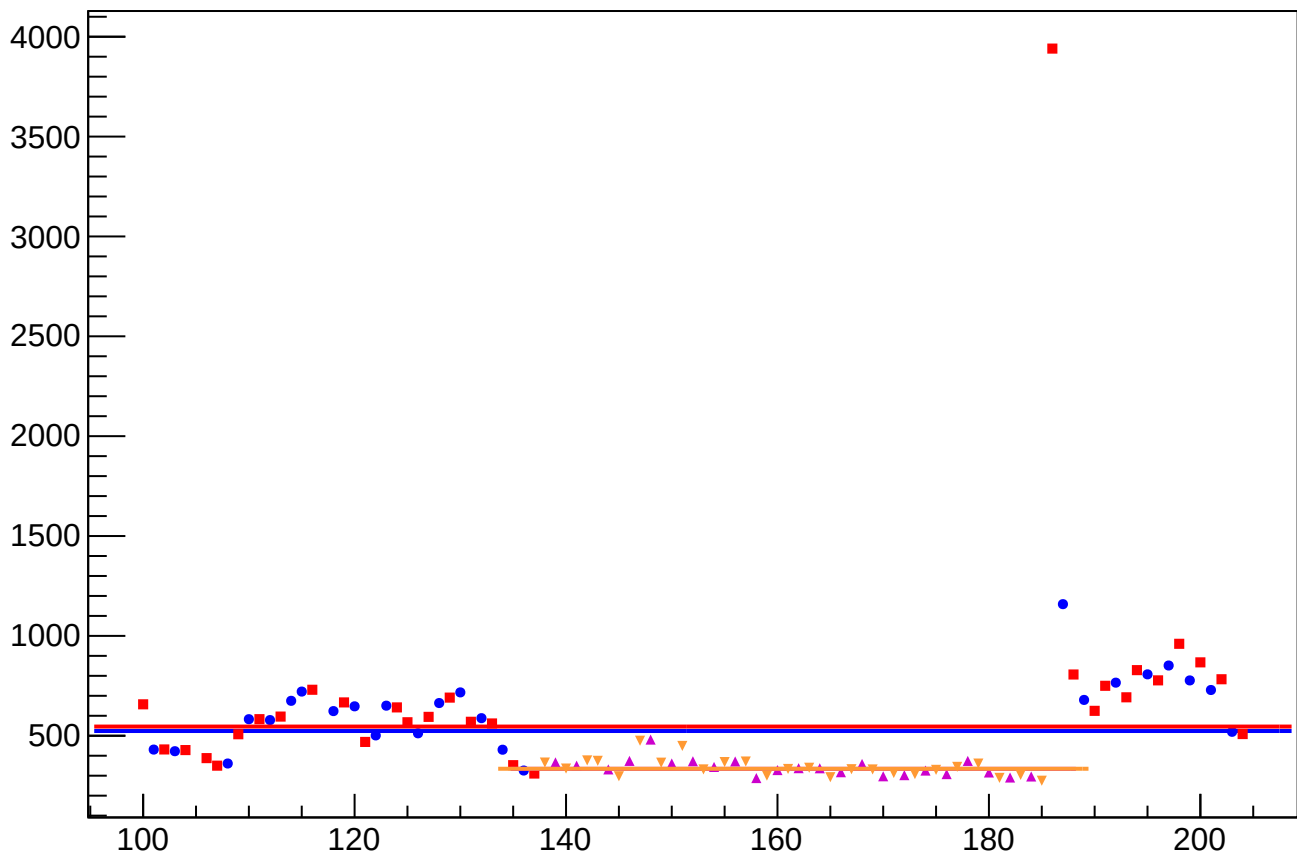
Right: -46.657 ± 110.123 $\chi^2/\text{NDF}: 50.7/54$

In: -78.139 ± 71.767 $\chi^2/\text{NDF}: 58.8/47$

Out: -50.670 ± 69.931 $\chi^2/\text{NDF}: 55.0/54$

All: -64.049 ± 50.085 $\chi^2/\text{NDF}: 114.0/102$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 523.723+/-0.112 χ^2/NDF : 2175678.1/24

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 545.973+/-0.109 χ^2/NDF : 2928804.6/29

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

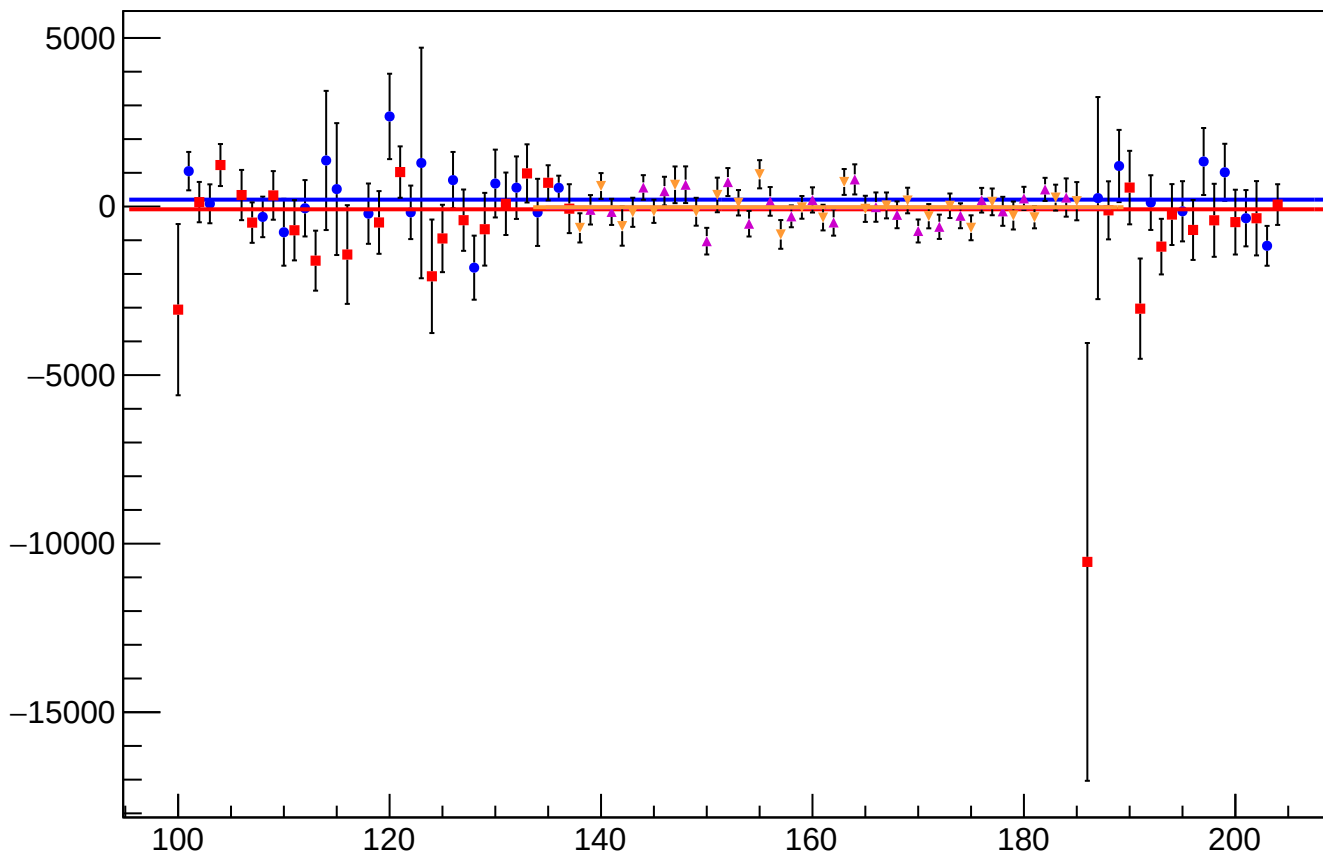
Right: 535.174+/-0.078 χ^2/NDF : 5124877.3/54

In: 373.226+/-0.051 χ^2/NDF : 4856667.9/47

Out: 378.585+/-0.049 χ^2/NDF : 6421036.1/54

All: 375.975+/-0.035 χ^2/NDF : 11283424.5/100

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 204.540 $\pm$ 159.742 χ^2 /NDF: 24.2/24

Left Out: -20.895 $\pm$ 79.812 χ^2 /NDF:27.2/24

Right Out: -82.358 $\pm$ 155.157 χ^2 /NDF: 29.5/29

Left In: -31.800 $\pm$ 81.839 χ^2 /NDF:34.0/22

Left: -26.211 $\pm$ 57.139 χ^2 /NDF: 61.3/47

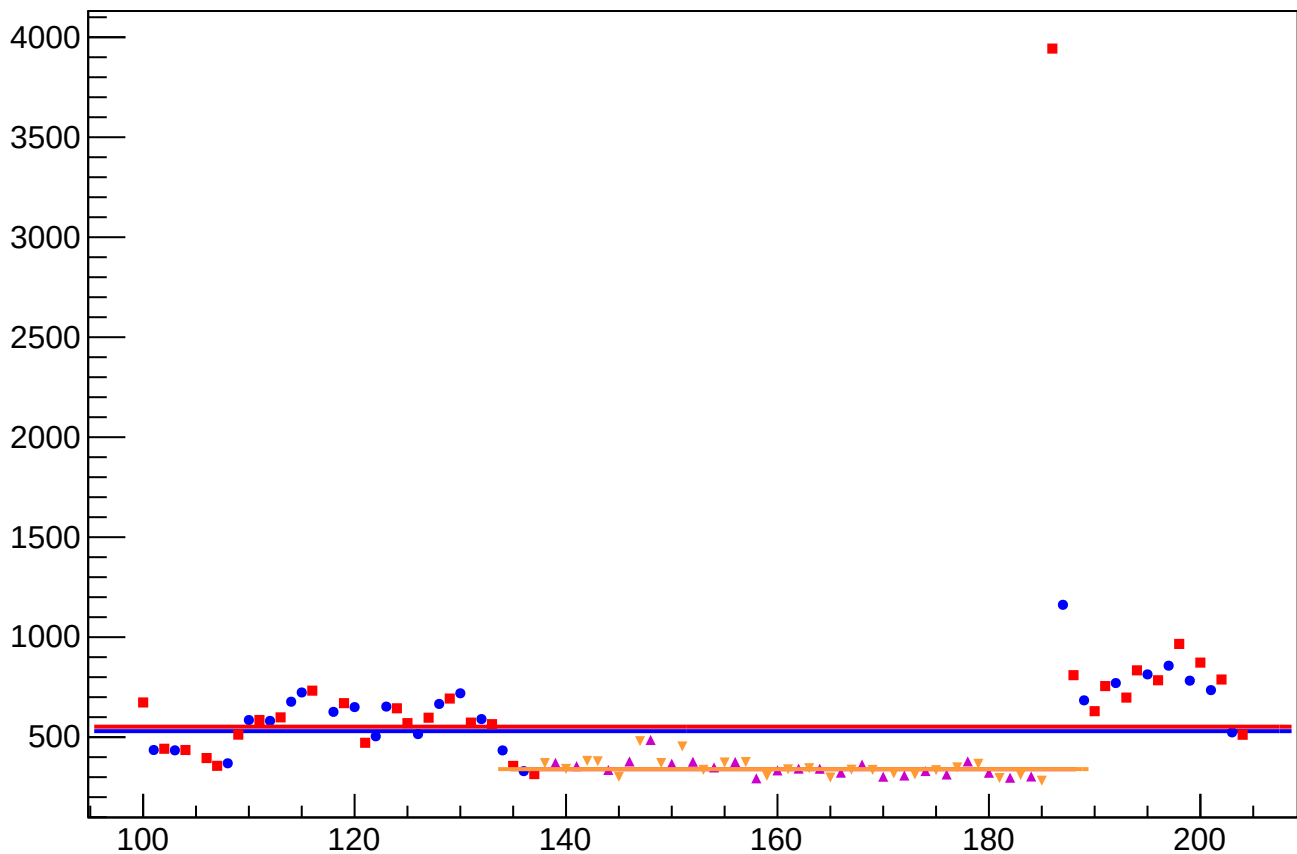
Right: 56.914 $\pm$ 111.298 χ^2 /NDF: 55.4/54

In: 17.336 $\pm$ 72.837 χ^2 /NDF:60.0/47

Out: -33.755 $\pm$ 70.973 χ^2 /NDF:56.8/54

All: -8.872 $\pm$ 50.832 χ^2 /NDF: 117.1/102

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 529.971 $\pm$ 0.113 χ^2 /NDF: 2120724.9/24

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 552.430 $\pm$ 0.110 χ^2 /NDF: 2867441.5/29

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

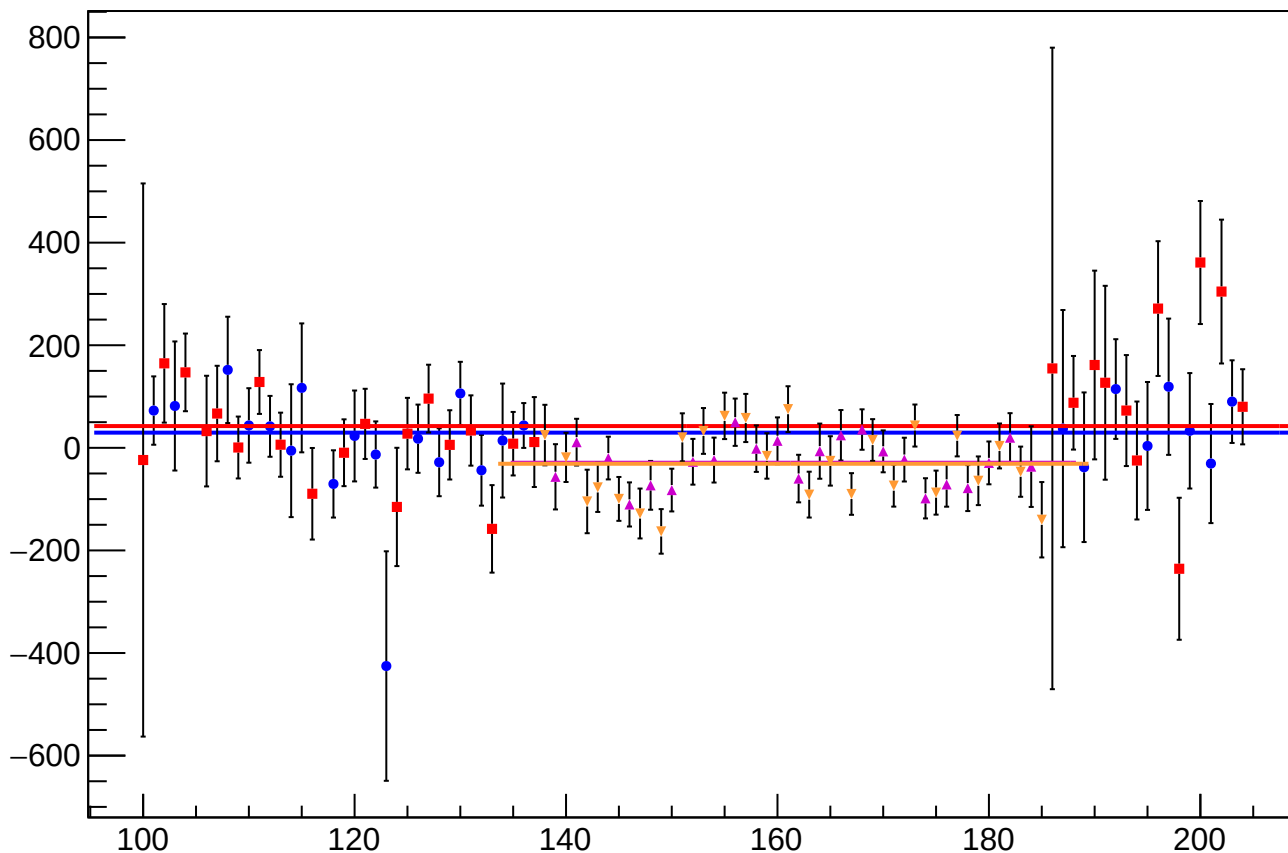
Right: 541.527 $\pm$ 0.079 χ^2 /NDF: 5008508.6/54

In: 379.196 $\pm$ 0.052 χ^2 /NDF: 4749959.3/47

Out: 384.636 $\pm$ 0.050 χ^2 /NDF: 6294254.2/54

All: 381.986 $\pm$ 0.036 χ^2 /NDF: 11049937.2/100

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 29.609+/-16.372 χ^2/NDF : 15.4/24

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 42.417+/-15.718 χ^2/NDF : 36.7/29

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

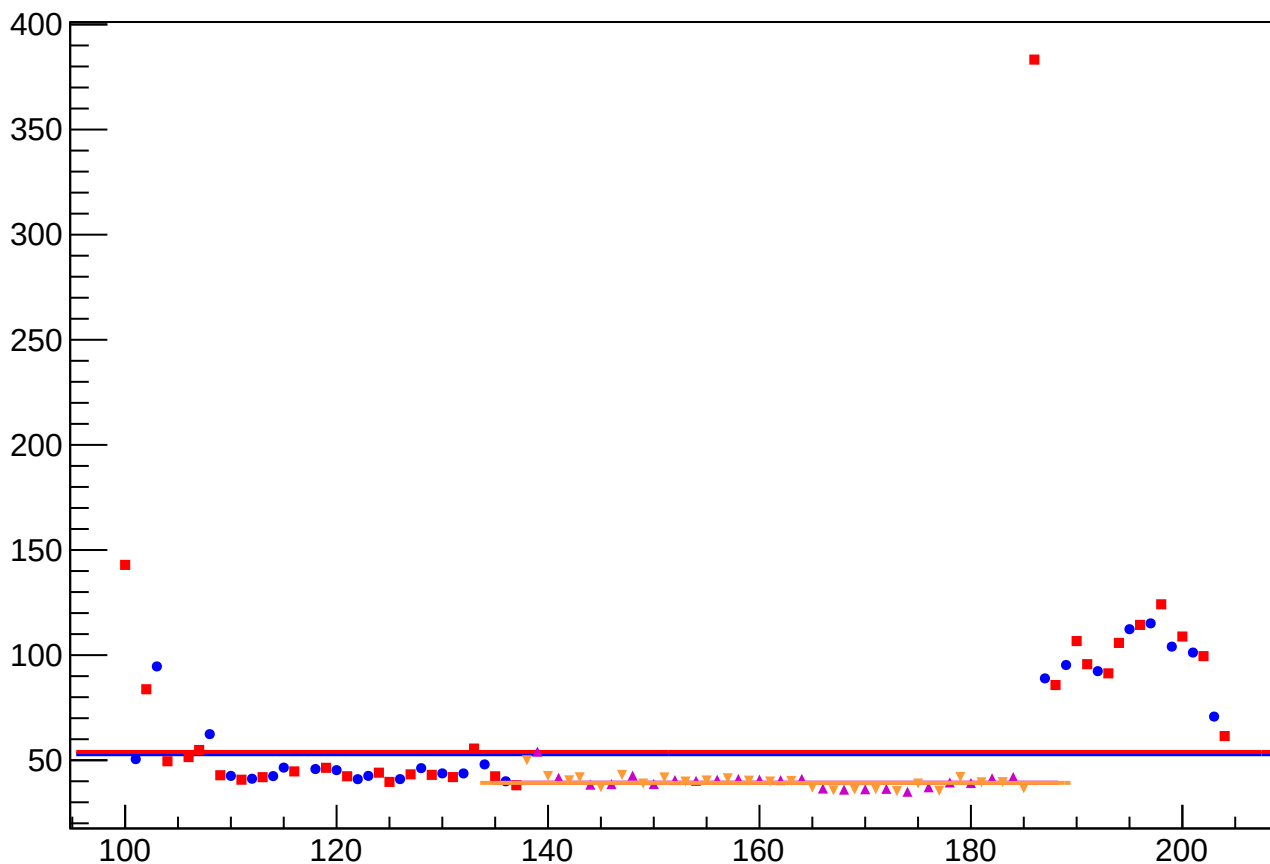
Right: 36.274+/-11.339 χ^2/NDF : 52.5/54

In: -14.396+/-8.184 χ^2/NDF : 47.5/47

Out: -12.406+/-7.920 χ^2/NDF : 105.6/54

All: -13.368+/-5.692 χ^2/NDF : 153.2/102

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 52.865 $\pm$ 0.012 χ^2 /NDF: 3126740.1/24

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 53.953 $\pm$ 0.011 χ^2 /NDF: 4227970.4/29

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

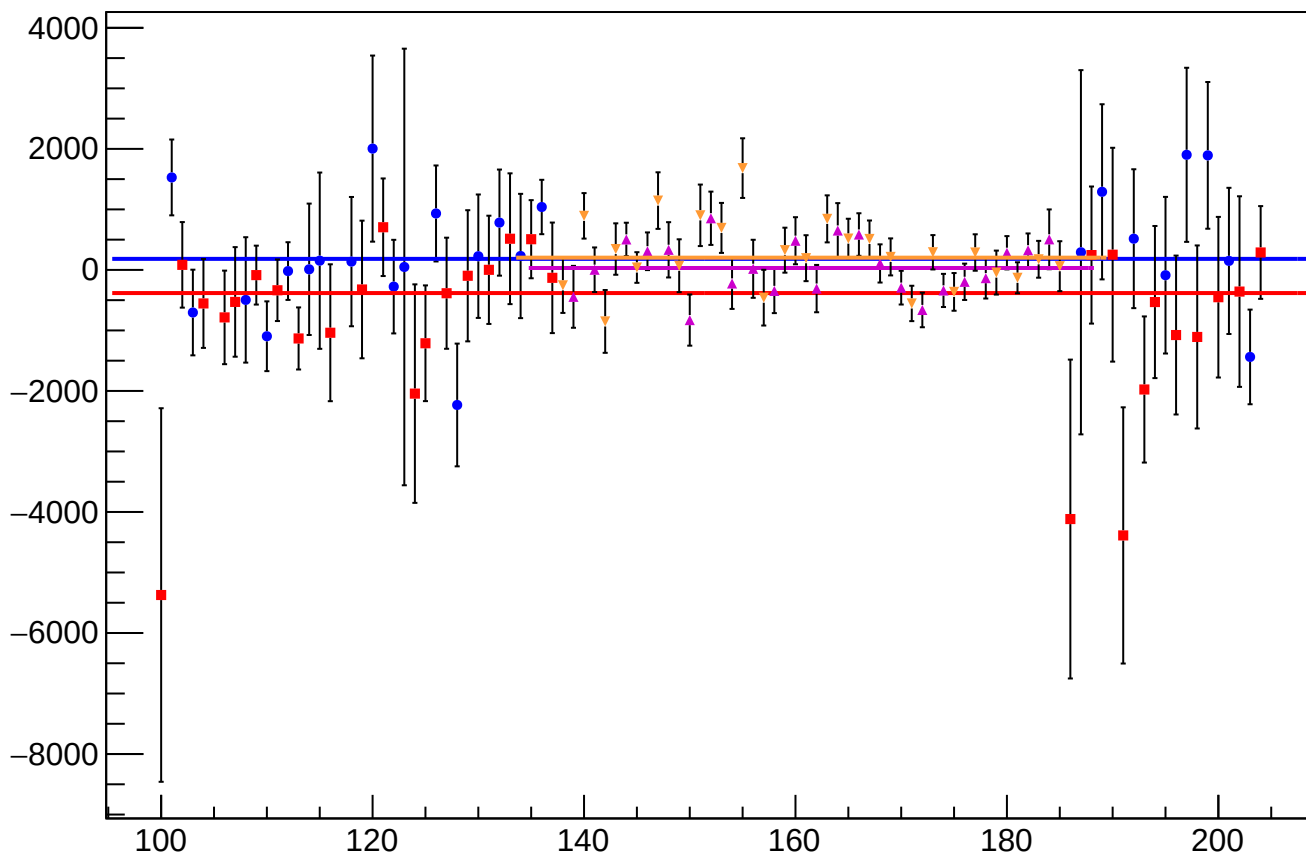
Right: 53.431 $\pm$ 0.008 χ^2 /NDF: 7359307.7/54

In: 42.718 $\pm$ 0.006 χ^2 /NDF: 4366444.9/47

Out: 42.972 $\pm$ 0.006 χ^2 /NDF: 5738152.8/54

All: 42.849 $\pm$ 0.004 χ^2 /NDF: 10105589.8/102

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 182.457 $\pm$ 173.003 χ^2 /NDF: 32.6/24

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -382.537 $\pm$ 163.414 χ^2 /NDF: 21.7/29

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

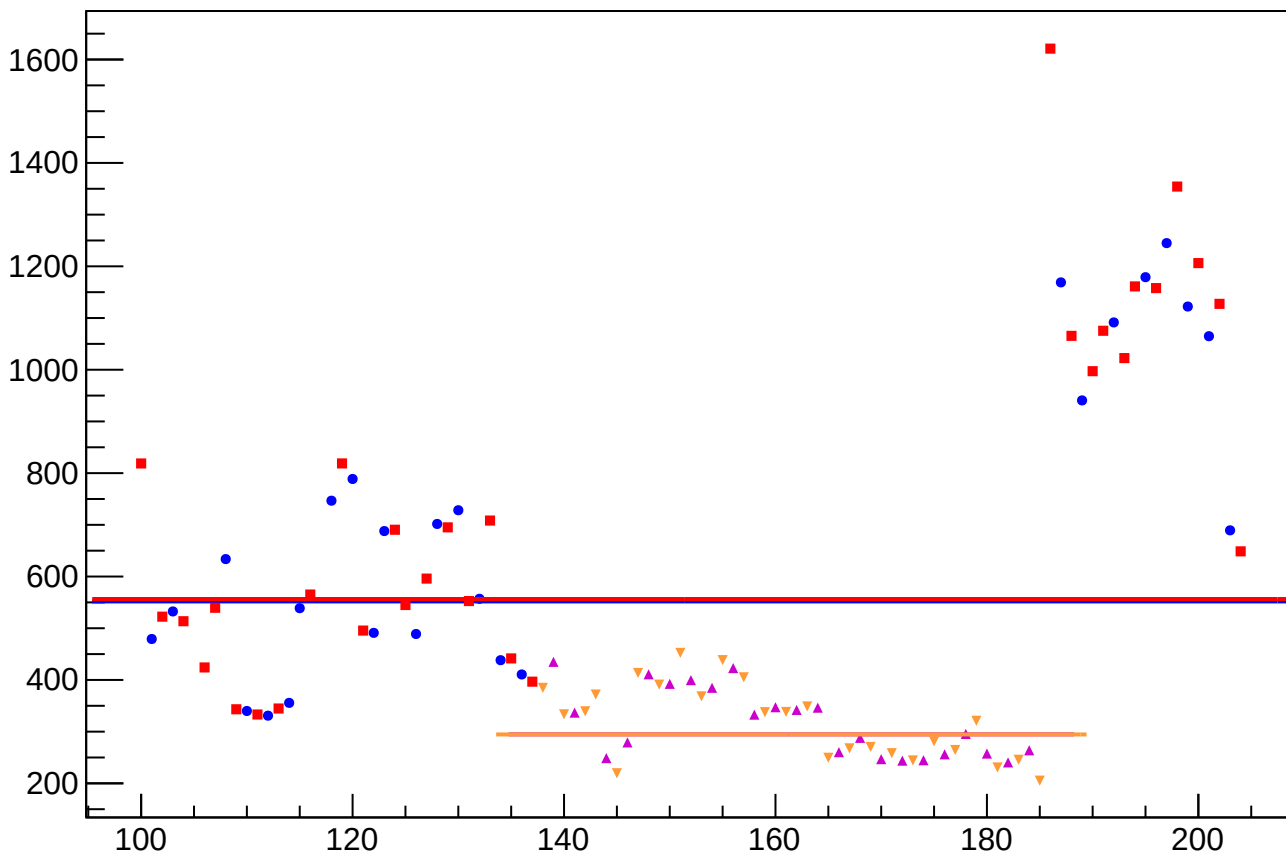
Right: -116.131 $\pm$ 118.796 χ^2 /NDF: 59.9/54

In: 53.880 $\pm$ 66.552 χ^2 /NDF:66.6/47

Out: 110.750 $\pm$ 64.675 χ^2 /NDF:77.3/54

All: 83.128 $\pm$ 46.382 χ^2 /NDF: 144.3/102

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 551.909+/-0.122 χ^2/NDF : 3744083.5/24

Left Out: 294.591+/-0.050 χ^2/NDF :1680474.5/24

Right Out: 556.528+/-0.116 χ^2/NDF : 5008083.0/29

Left In: 294.722+/-0.051 χ^2/NDF :1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

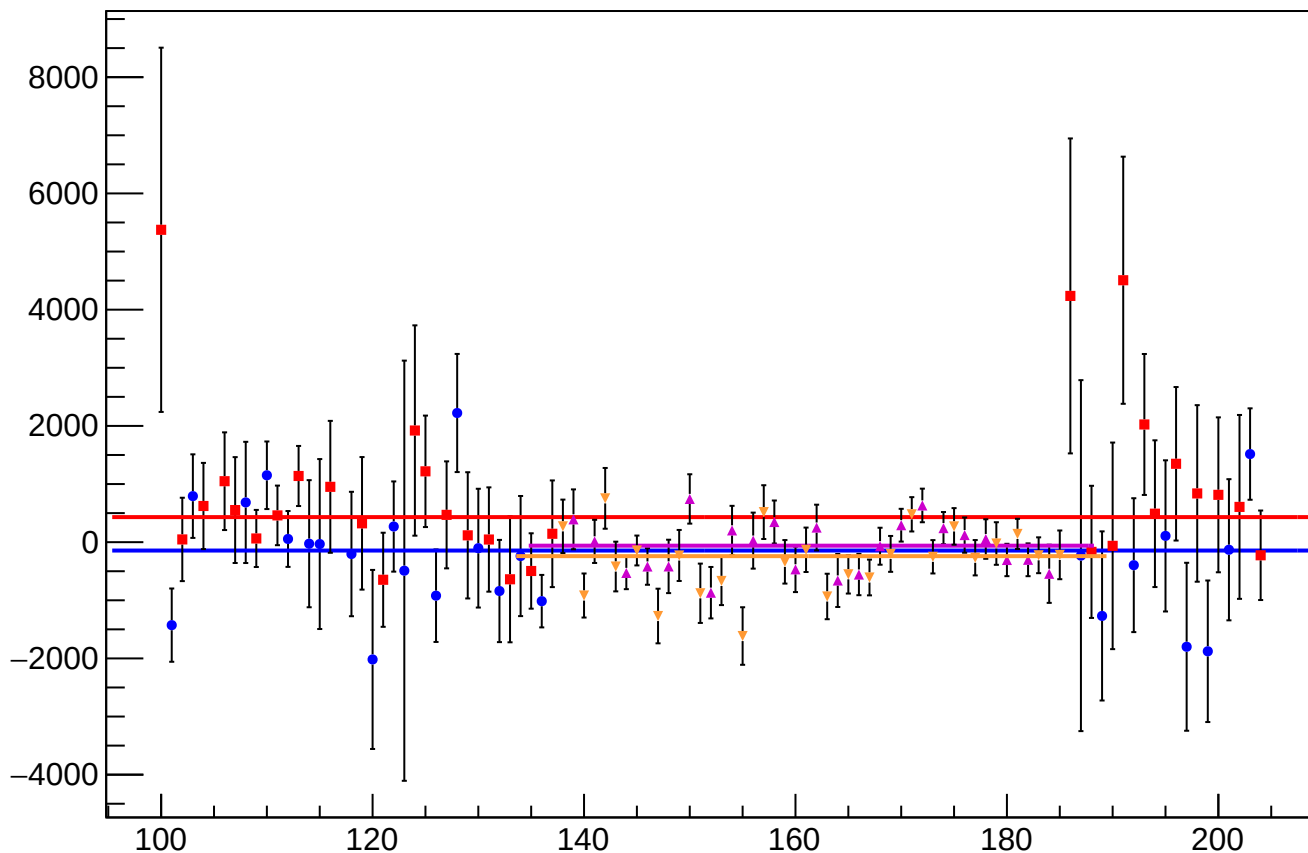
Right: 554.350+/-0.084 χ^2/NDF : 8752919.9/54

In: 332.781+/-0.047 χ^2/NDF :8807298.6/47

Out: 335.621+/-0.046 χ^2/NDF :11022241.8/54

All: 334.242+/-0.033 χ^2/NDF : 19831413.2/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -144.063 ± 174.039 χ^2/NDF : 32.6/24

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 431.165 ± 164.972 χ^2/NDF : 21.7/29

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

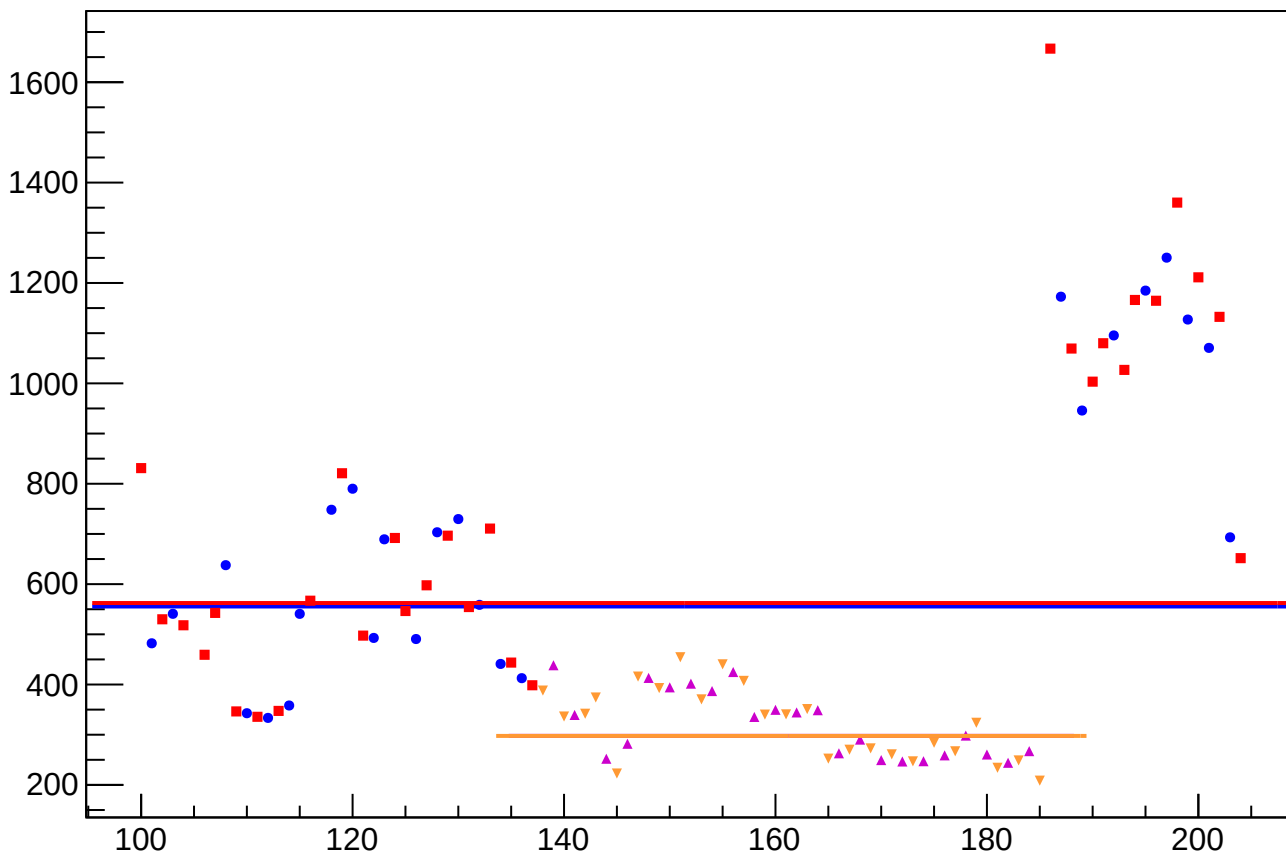
Right: 158.925 ± 119.730 χ^2/NDF : 60.0/54

In: -72.795 ± 67.152 χ^2/NDF : 63.7/47

Out: -135.163 ± 65.294 χ^2/NDF : 78.6/54

All: -104.854 ± 46.813 χ^2/NDF : 142.7/102

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 555.475+/-0.123 χ^2/NDF : 3726161.8/24

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 562.364+/-0.117 χ^2/NDF : 4960477.8/29

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

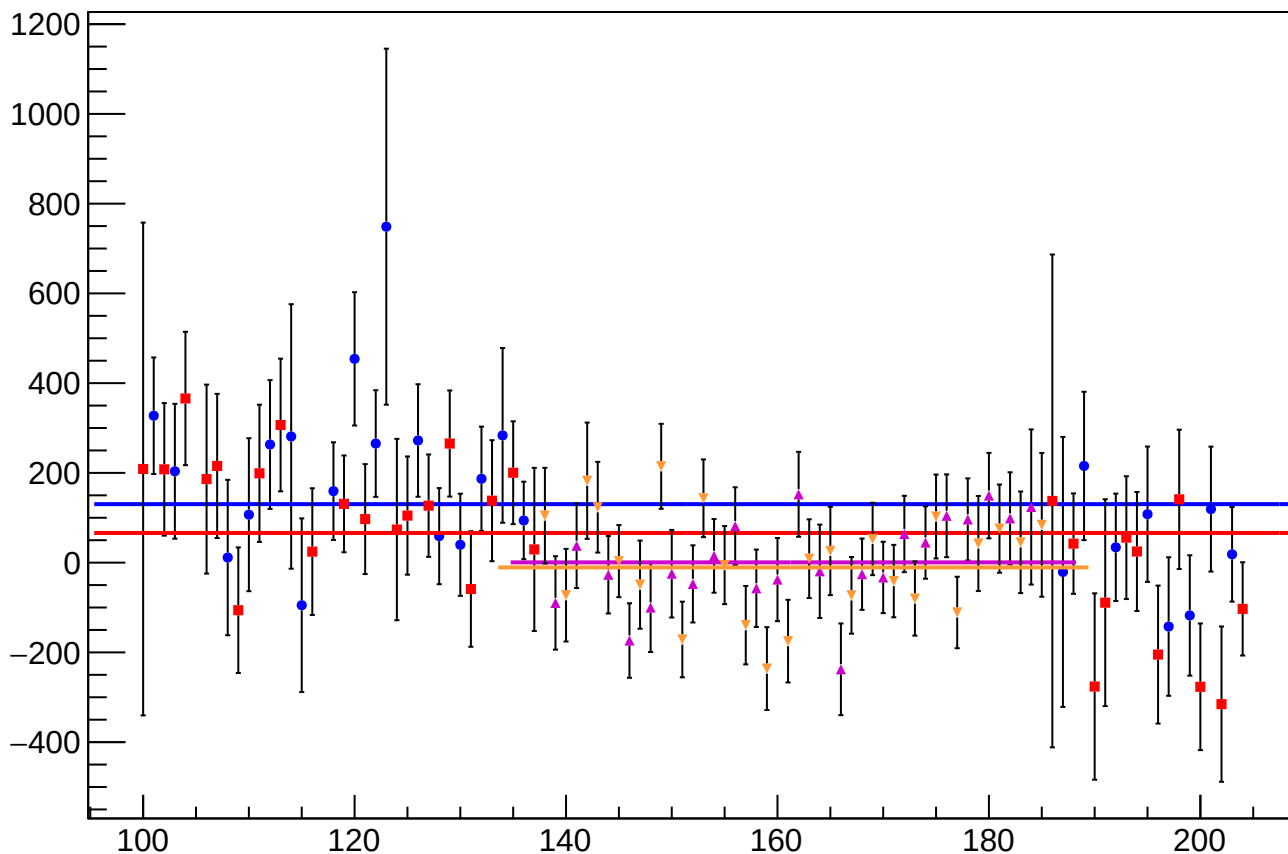
Right: 559.103+/-0.085 χ^2/NDF : 8688290.3/54

In: 336.075+/-0.047 χ^2/NDF : 8726791.7/47

Out: 339.086+/-0.046 χ^2/NDF : 10942258.9/54

All: 337.623+/-0.033 χ^2/NDF : 19671117.4/100

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 130.338 $\pm$ 27.437 χ^2/NDF : 26.3/24

Left Out: -10.667 $\pm$ 18.610 χ^2/NDF :36.3/24

Right Out: 66.120 $\pm$ 26.298 χ^2/NDF : 37.6/29

Left In: 0.575 $\pm$ 19.091 χ^2/NDF :23.8/22

Left: -5.190 $\pm$ 13.326 χ^2/NDF : 60.3/47

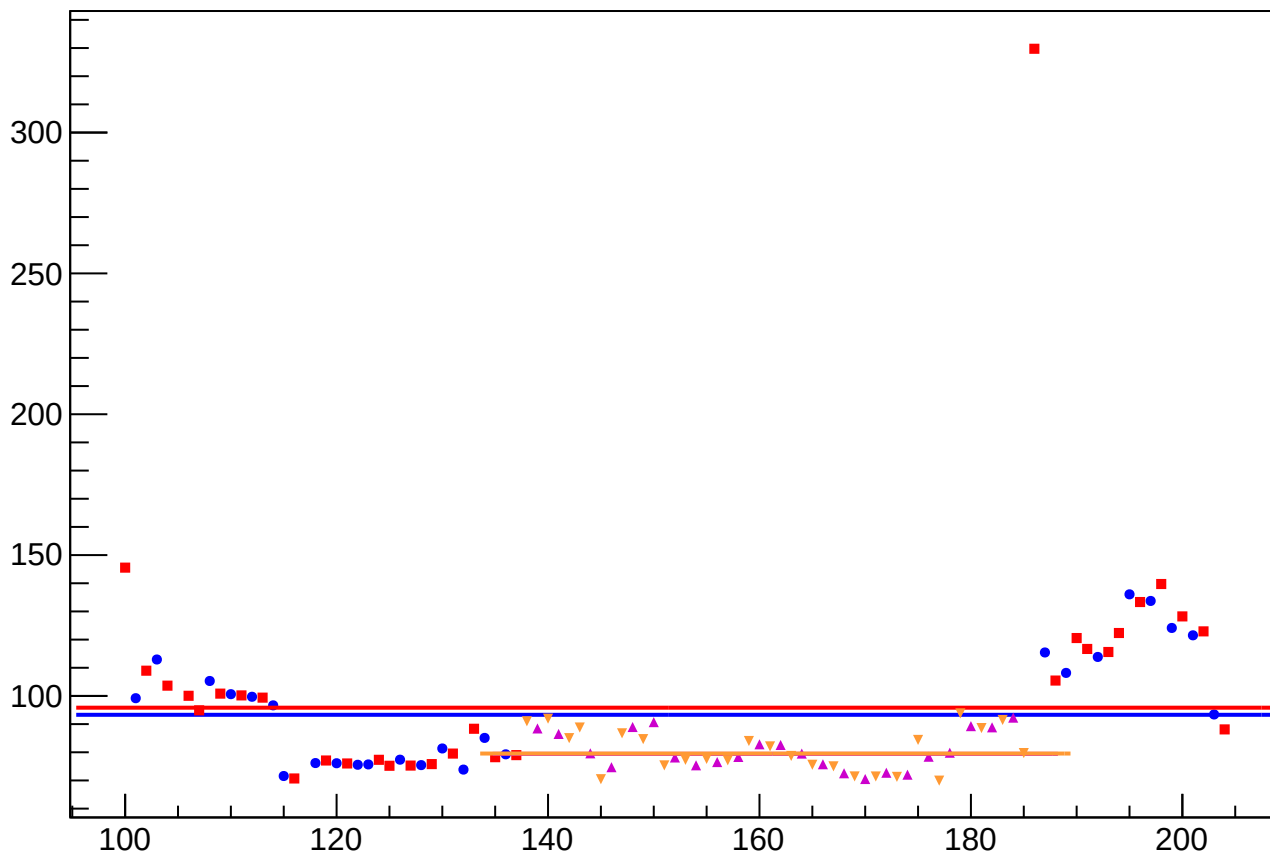
Right: 96.868 $\pm$ 18.985 χ^2/NDF : 66.8/54

In: 42.907 $\pm$ 15.671 χ^2/NDF :65.1/47

Out: 14.955 $\pm$ 15.191 χ^2/NDF :79.6/54

All: 28.496 $\pm$ 10.907 χ^2/NDF : 146.4/102

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 93.304+/-0.019 χ^2/NDF : 1000023.9/24

Left Out: 79.551+/-0.013 χ^2/NDF :309075.2/24

Right Out: 95.831+/-0.019 χ^2/NDF : 1499236.6/29

Left In: 79.436+/-0.013 χ^2/NDF :212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

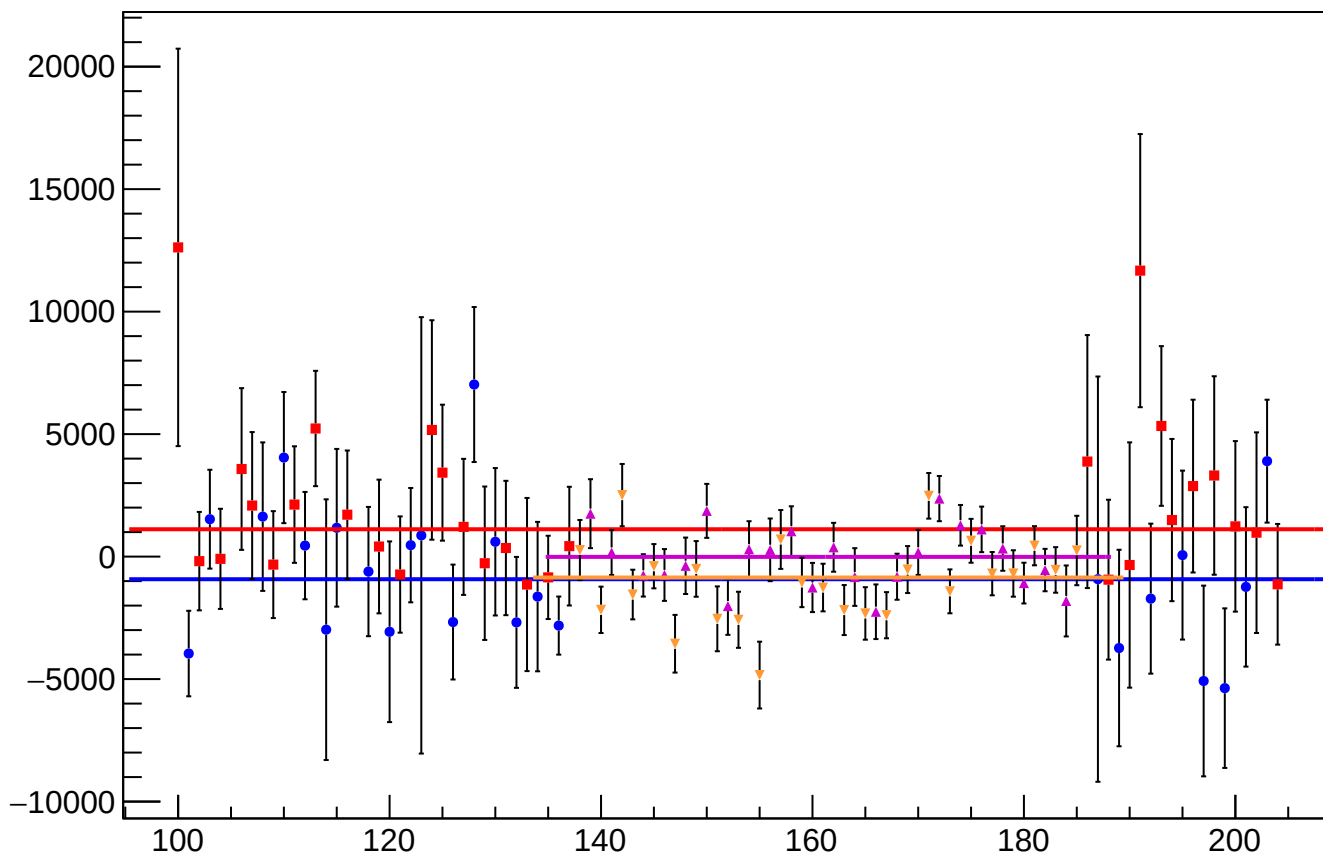
Right: 94.621+/-0.013 χ^2/NDF : 2508105.4/54

In: 83.960+/-0.011 χ^2/NDF :1556701.2/47

Out: 84.983+/-0.011 χ^2/NDF :2319040.6/54

All: 84.488+/-0.008 χ^2/NDF : 3880135.8/102

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -923.303 ± 526.453 $\chi^2/\text{NDF}: 27.9/24$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1116.586 ± 519.309 $\chi^2/\text{NDF}: 18.9/29$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

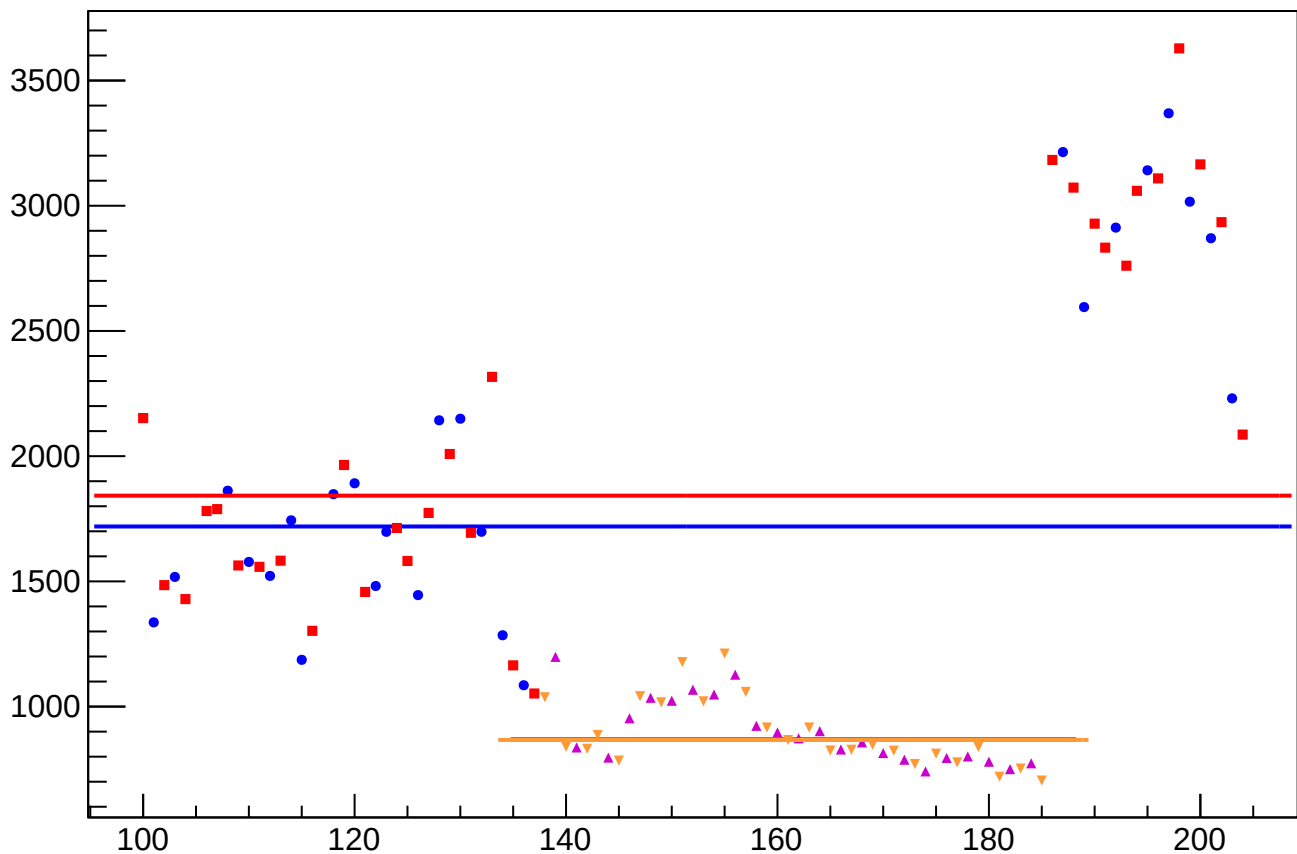
Right: 110.576 ± 369.707 $\chi^2/\text{NDF}: 54.3/54$

In: -136.905 ± 195.113 $\chi^2/\text{NDF}: 61.7/47$

Out: -590.472 ± 189.948 $\chi^2/\text{NDF}: 87.3/54$

All: -369.771 ± 136.103 $\chi^2/\text{NDF}: 151.8/102$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1719.220+/-0.372 χ^2/NDF : 2758580.4/24

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1842.336+/-0.367 χ^2/NDF : 3077635.4/29

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

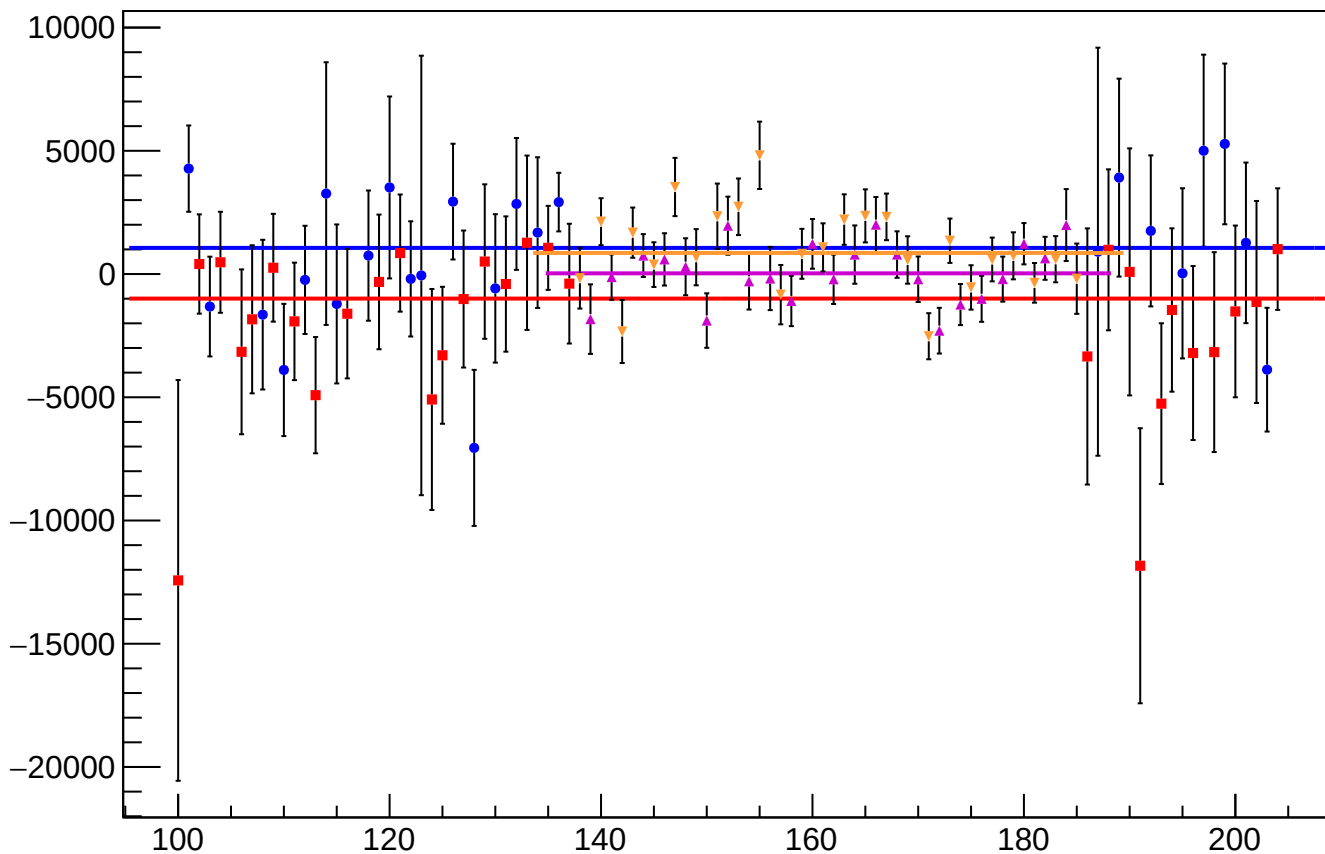
Right: 1781.619+/-0.261 χ^2/NDF : 5891652.5/54

In: 986.275+/-0.138 χ^2/NDF : 7834786.9/47

Out: 997.396+/-0.134 χ^2/NDF : 9851662.5/54

All: 991.984+/-0.096 χ^2/NDF : 17689785.0/10

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1060.910 ± 527.429 χ^2/NDF : 28.4/24

Left Out: 855.664 ± 205.047 χ^2/NDF : 54.1/24

Right Out: -995.736 ± 520.342 χ^2/NDF : 18.6/29

Left In: 28.553 ± 211.034 χ^2/NDF : 29.7/22

Left: 454.007 ± 147.061 χ^2/NDF : 91.7/47

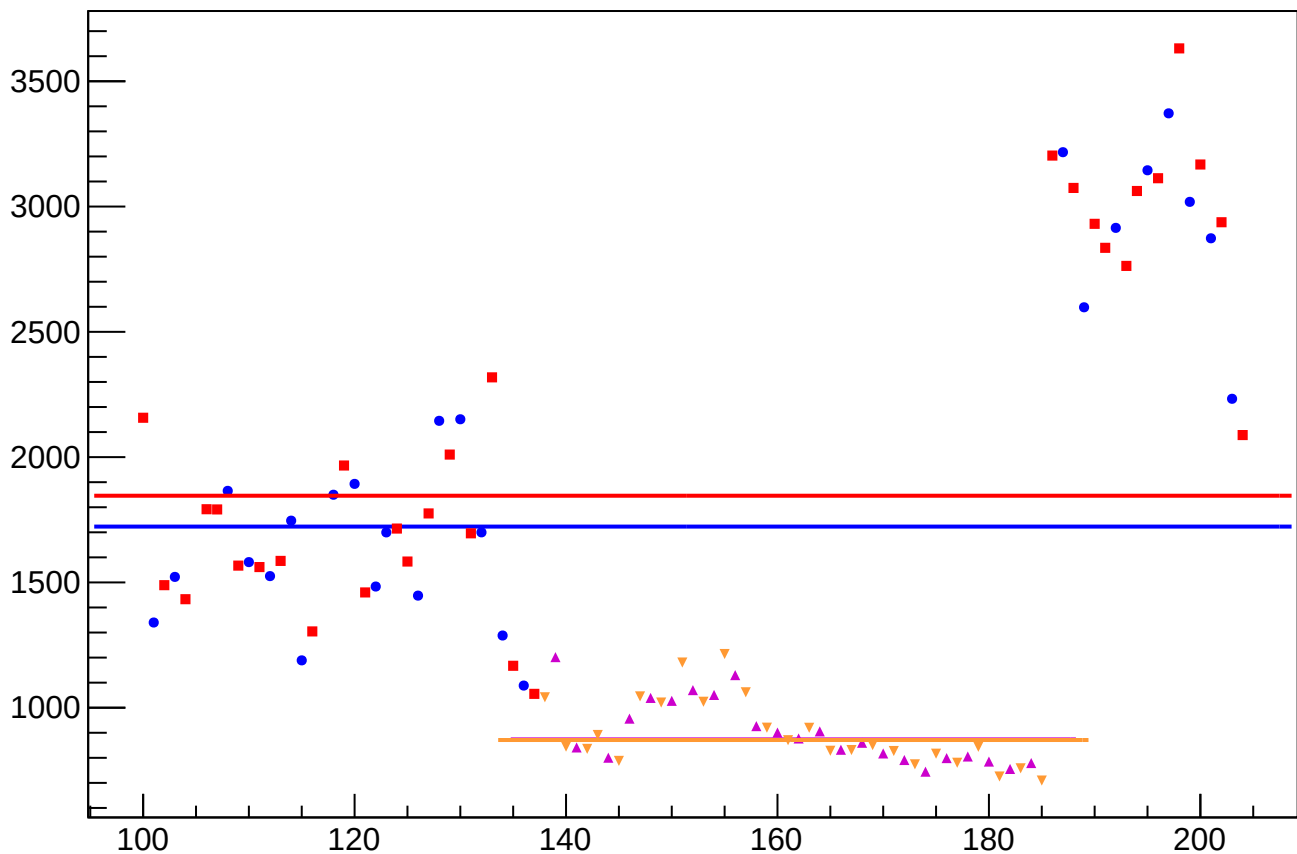
Right: 18.677 ± 370.418 χ^2/NDF : 54.7/54

In: 171.019 ± 195.932 χ^2/NDF : 61.4/47

Out: 606.813 ± 190.769 χ^2/NDF : 83.7/54

All: 394.733 ± 136.683 χ^2/NDF : 147.6/102

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1722.842 $\pm$ 0.373 χ^2 /NDF: 2748520.1/24

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1845.994 $\pm$ 0.368 χ^2 /NDF: 3070196.1/29

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

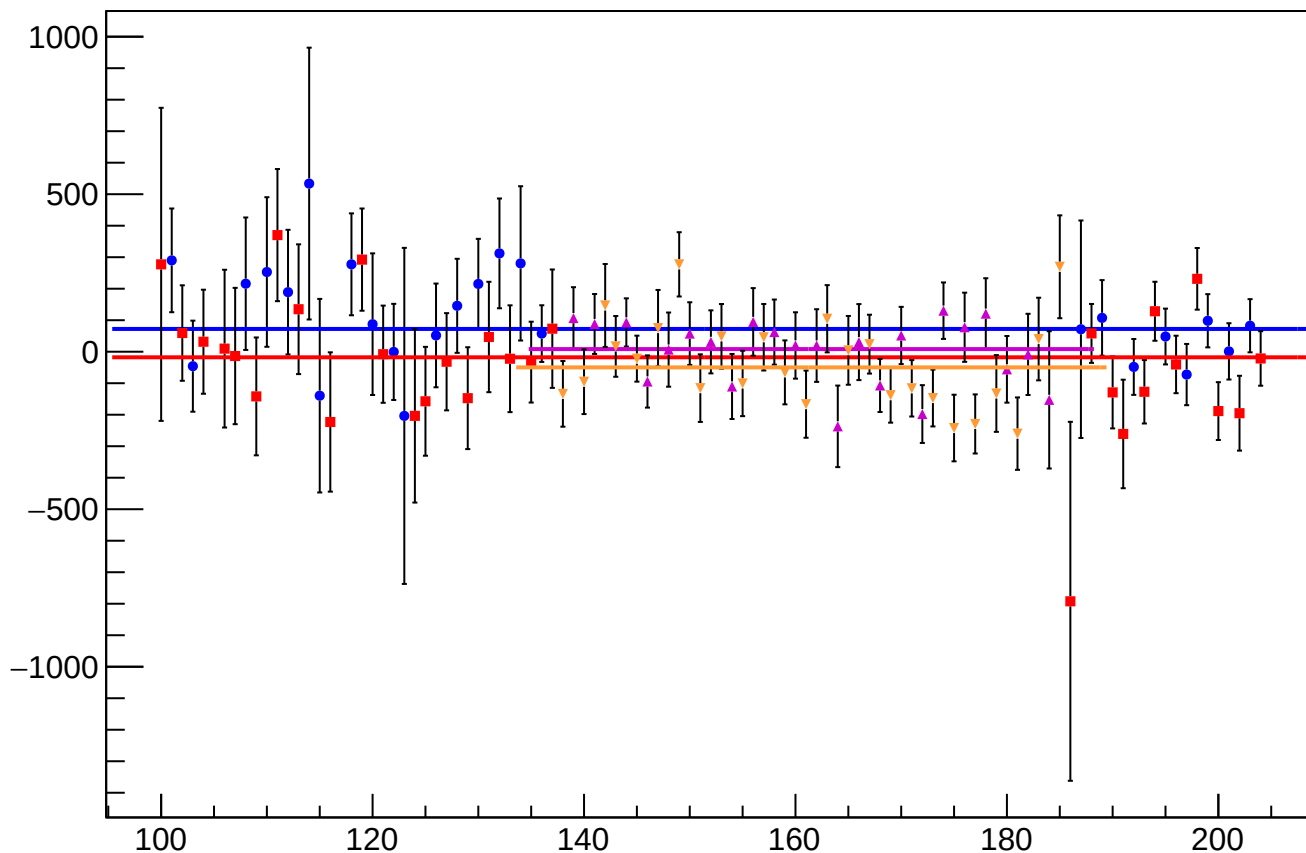
Right: 1785.251 $\pm$ 0.262 χ^2 /NDF: 5873974.1/54

In: 990.861 $\pm$ 0.139 χ^2 /NDF: 7791179.6/47

Out: 1002.146 $\pm$ 0.135 χ^2 /NDF: 9798676.2/54

All: 996.654 $\pm$ 0.097 χ^2 /NDF: 17593261.5/100

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 72.295+/-26.548 χ^2/NDF : 16.4/24

Left Out: -49.717+/-20.580 χ^2/NDF : 39.4/24

Right Out: -17.738+/-25.249 χ^2/NDF : 33.1/29

Left In: 8.343+/-21.271 χ^2/NDF : 22.0/22

Left: -21.646+/-14.791 χ^2/NDF : 65.3/47

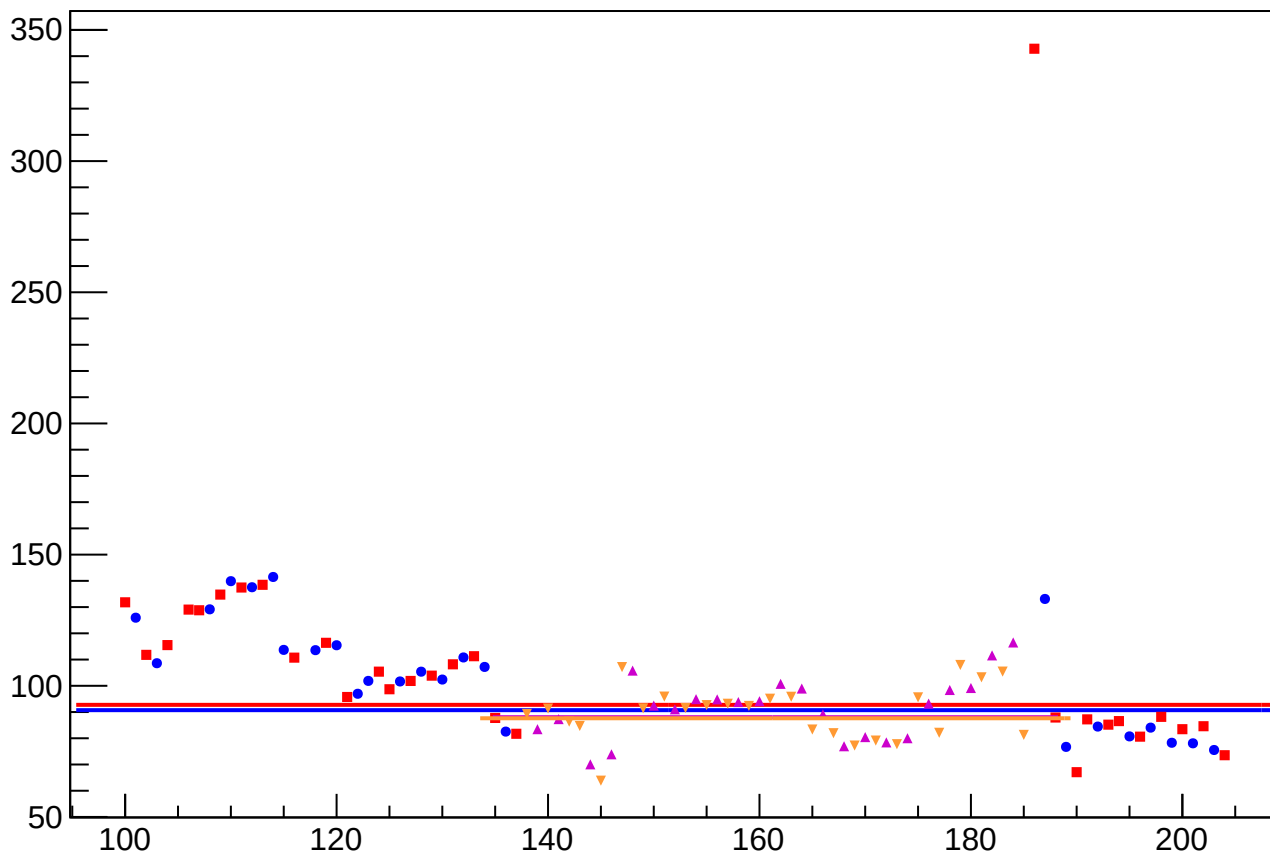
Right: 25.024+/-18.296 χ^2/NDF : 55.5/54

In: 33.347+/-16.600 χ^2/NDF : 41.9/47

Out: -36.952+/-15.952 χ^2/NDF : 73.5/54

All: -3.200+/-11.502 χ^2/NDF : 124.7/102

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 90.712 $\pm$ 0.019 χ^2 /NDF: 838291.7/24

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 92.742 $\pm$ 0.018 χ^2 /NDF: 1280740.4/29

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

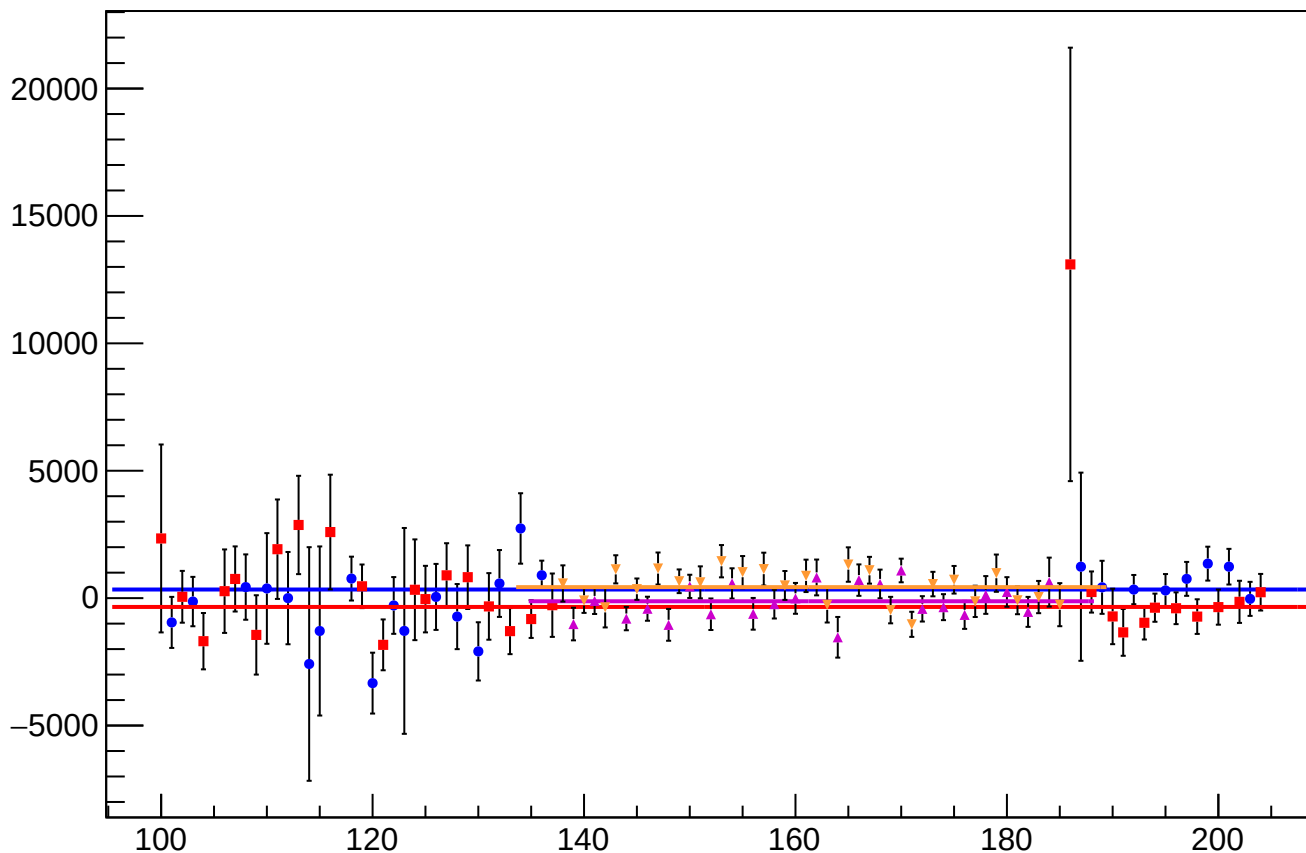
Right: 91.777 $\pm$ 0.013 χ^2 /NDF: 2125172.5/54

In: 89.080 $\pm$ 0.012 χ^2 /NDF: 1374410.1/47

Out: 89.668 $\pm$ 0.011 χ^2 /NDF: 1884767.4/54

All: 89.385 $\pm$ 0.008 χ^2 /NDF: 3260481.5/102

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 338.400 $\pm$ 190.263 χ^2 /NDF: 26.8/24

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -345.752 $\pm$ 176.339 χ^2 /NDF: 22.3/29

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

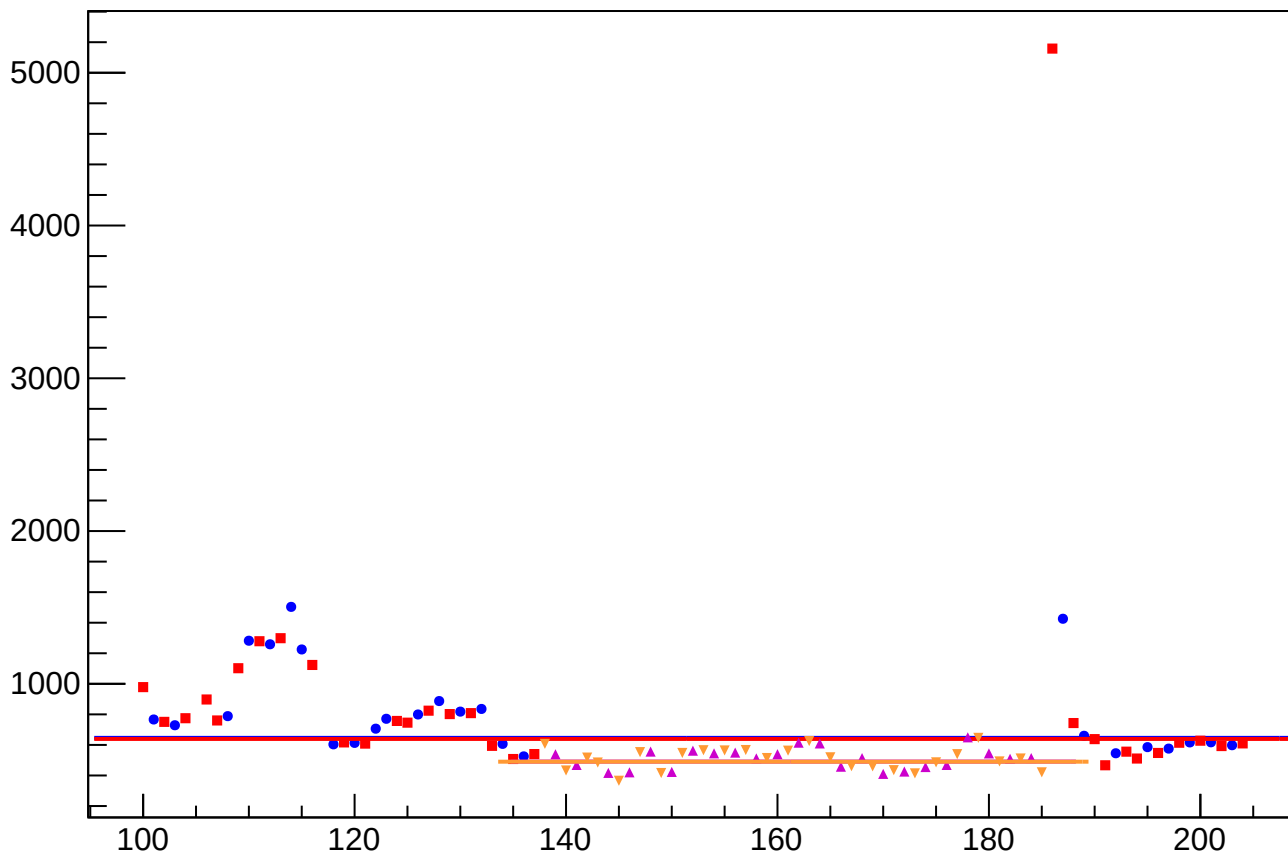
Right: -29.624 $\pm$ 129.333 χ^2 /NDF: 56.0/54

In: 6.493 $\pm$ 100.799 χ^2 /NDF:60.2/47

Out: 197.686 $\pm$ 96.740 χ^2 /NDF:66.3/54

All: 106.017 $\pm$ 69.796 χ^2 /NDF: 128.4/102

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 646.179+/-0.135 χ^2/NDF : 1099566.8/24

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 639.264+/-0.125 χ^2/NDF : 1935426.6/29

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

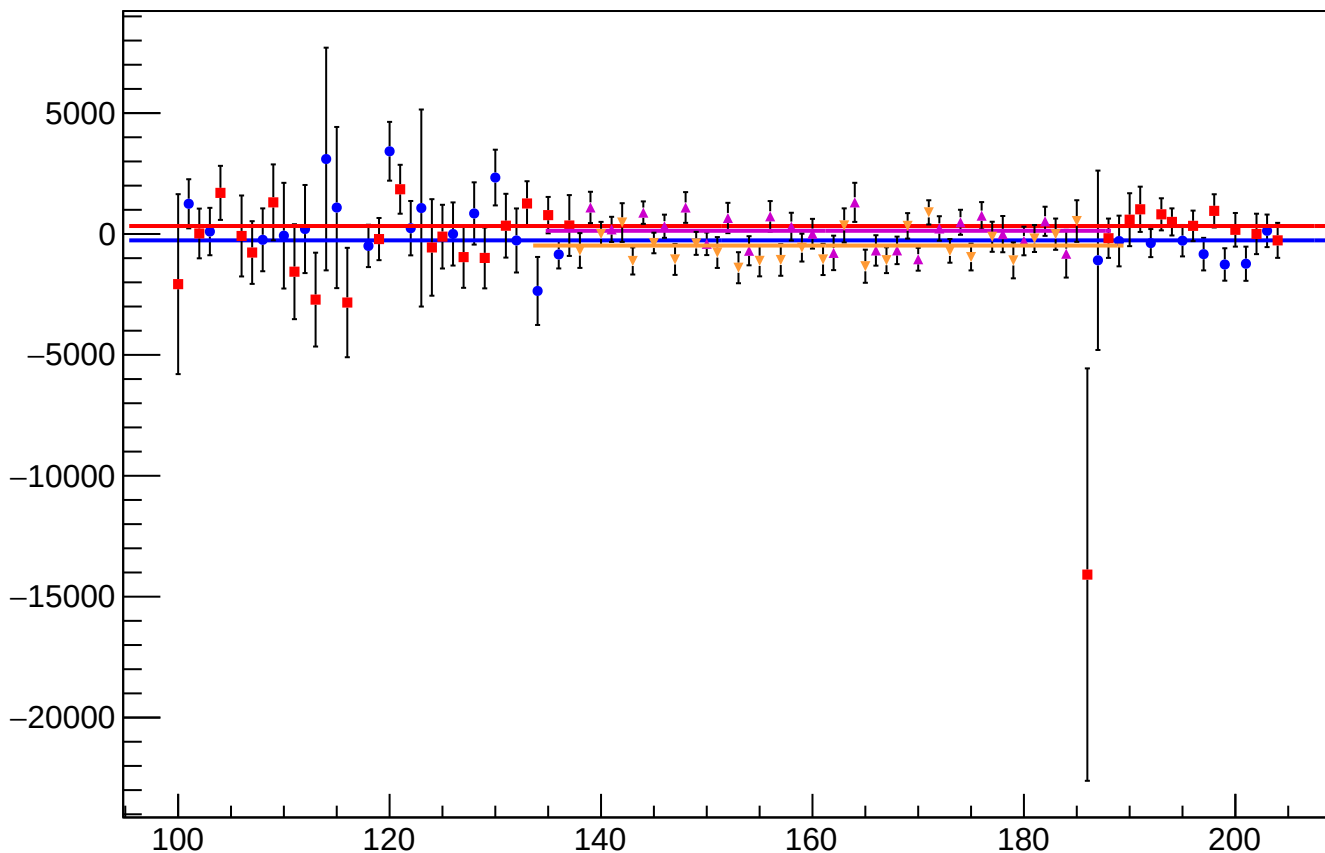
Right: 642.459+/-0.091 χ^2/NDF : 3036414.7/54

In: 534.490+/-0.071 χ^2/NDF : 2646915.1/47

Out: 535.109+/-0.068 χ^2/NDF : 3683834.2/54

All: 534.812+/-0.049 χ^2/NDF : 6330788.6/102

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -263.740+/-192.332 χ^2/NDF : 27.0/24

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 329.885+/-178.424 χ^2/NDF : 21.2/29

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

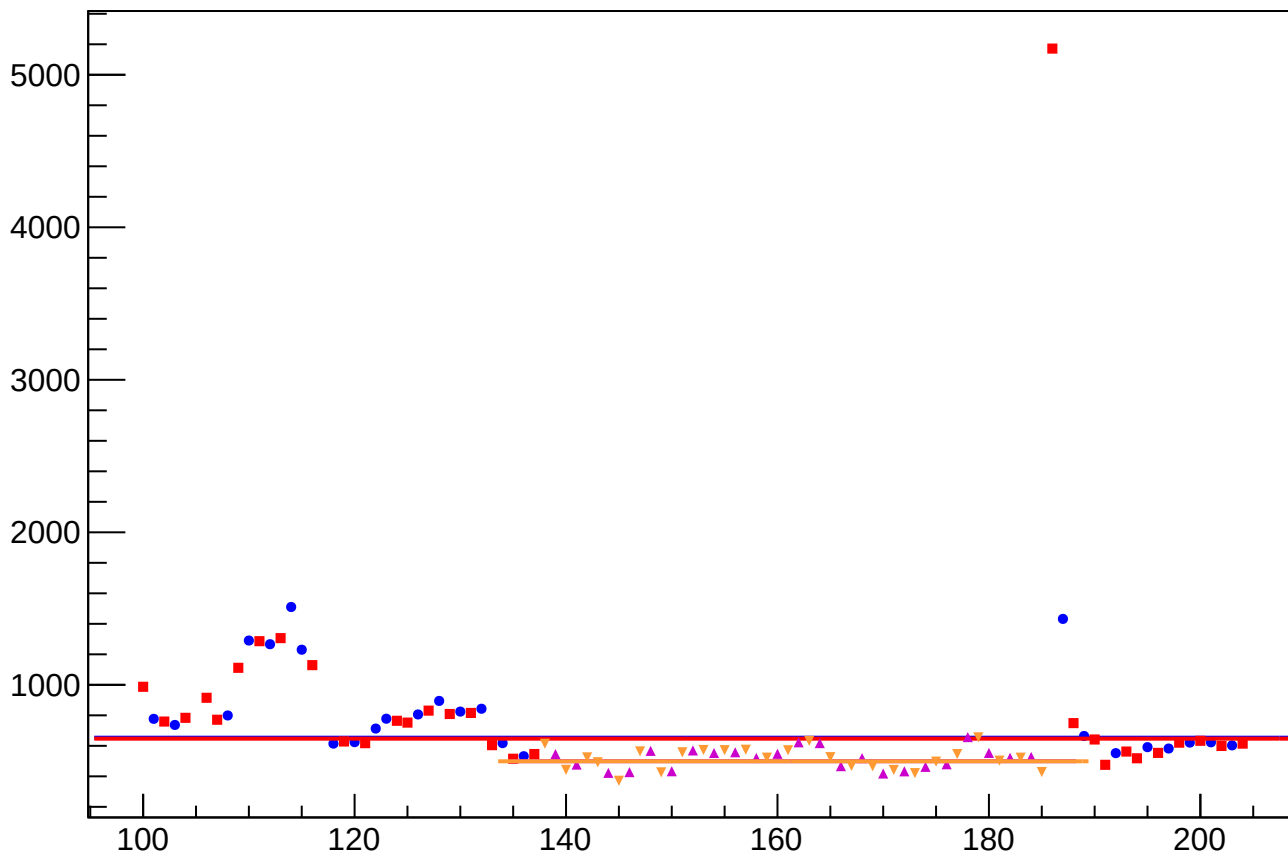
Right: 55.310+/-130.806 χ^2/NDF : 53.3/54

In: 20.351+/-102.336 χ^2/NDF : 59.6/47

Out: -233.296+/-98.225 χ^2/NDF : 63.2/54

All: -111.670+/-70.864 χ^2/NDF : 126.1/102

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 653.411+/-0.136 χ^2/NDF : 1088508.0/24

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 647.121+/-0.126 χ^2/NDF : 1914101.4/29

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

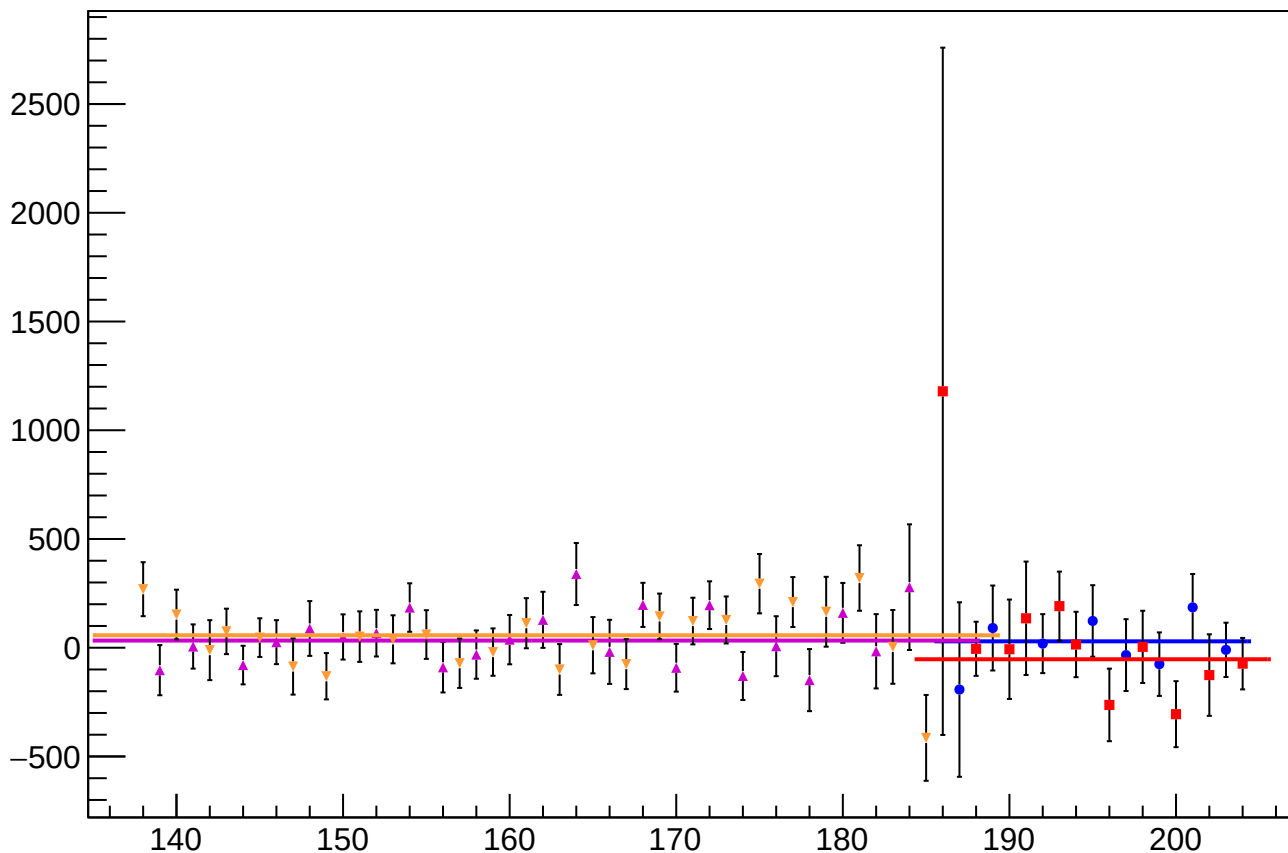
Right: 650.030+/-0.092 χ^2/NDF : 3003759.1/54

In: 542.997+/-0.072 χ^2/NDF : 2584478.3/47

Out: 543.719+/-0.069 χ^2/NDF : 3612202.0/54

All: 543.373+/-0.050 χ^2/NDF : 6196732.2/102

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 29.413 ± 56.437 $\chi^2/\text{NDF}: 2.5/7$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -53.022 ± 50.105 $\chi^2/\text{NDF}: 8.5/10$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

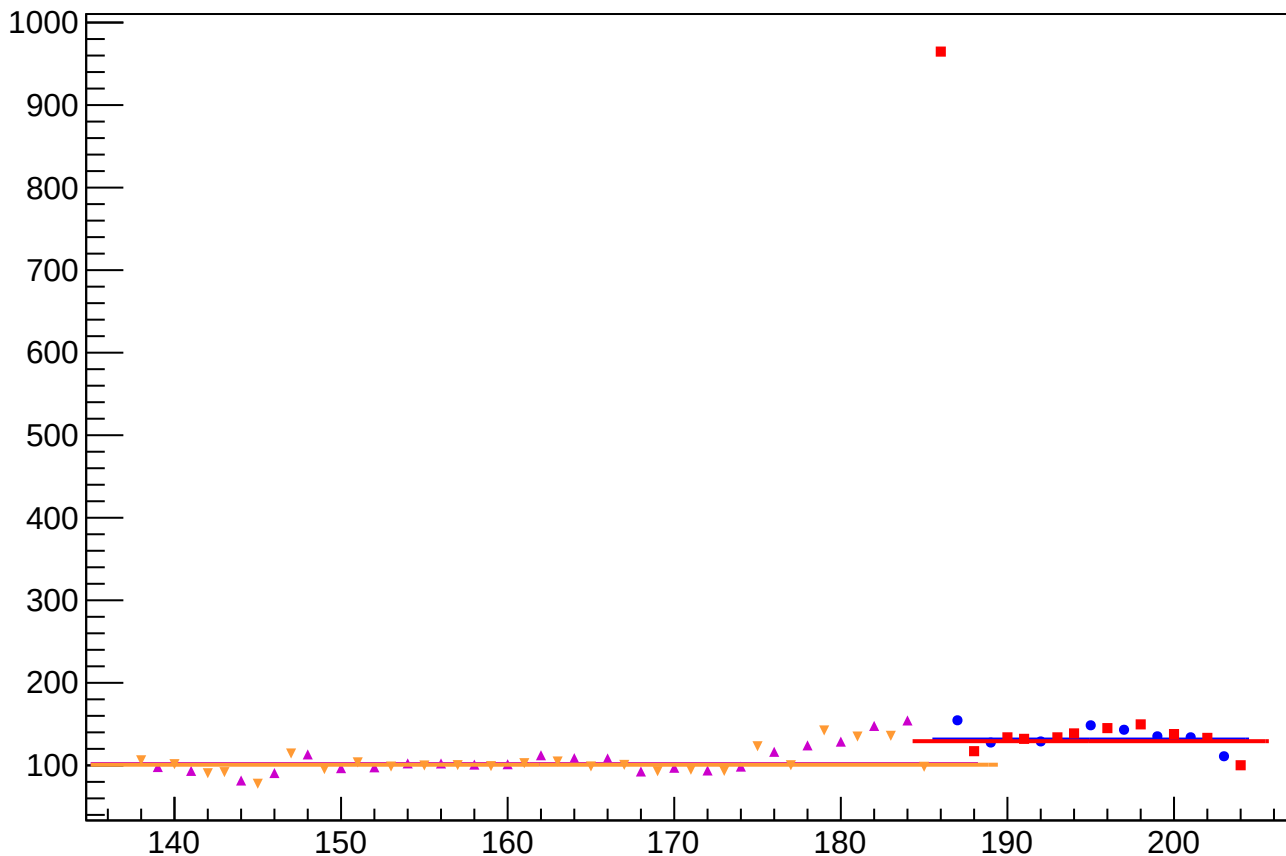
Right: -16.686 ± 37.469 $\chi^2/\text{NDF}: 12.3/18$

In: 32.384 ± 22.541 $\chi^2/\text{NDF}: 26.1/30$

Out: 37.038 ± 21.434 $\chi^2/\text{NDF}: 41.7/35$

All: 34.828 ± 15.533 $\chi^2/\text{NDF}: 67.9/66$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 131.289 $\pm$ 0.040 χ^2/NDF : 95061.1/7

Left Out: 100.801 $\pm$ 0.017 χ^2/NDF : 600502.4/24

Right Out: 129.302 $\pm$ 0.035 χ^2/NDF : 765699.0/10

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

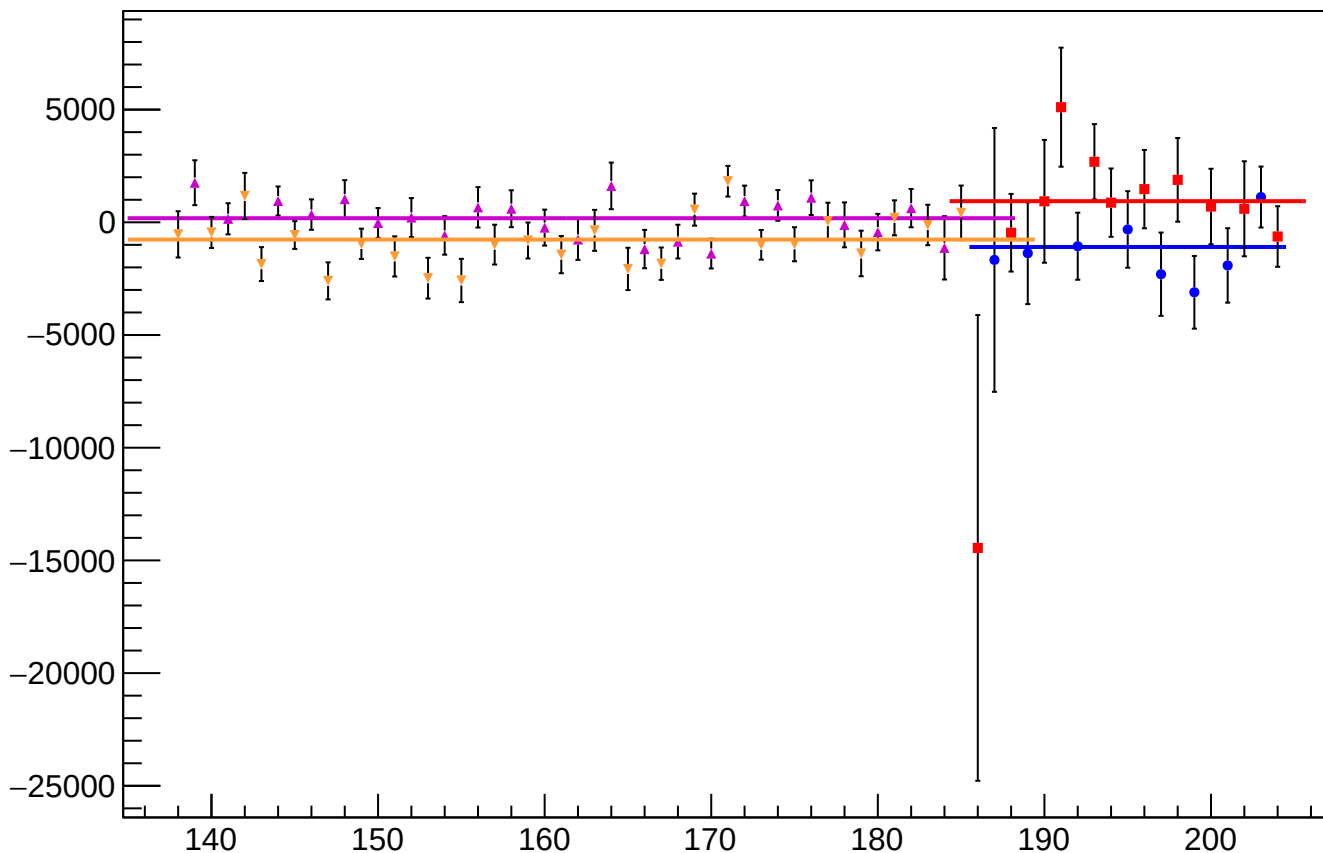
Right: 130.177 $\pm$ 0.026 χ^2/NDF : 862146.4/18

In: 106.354 $\pm$ 0.016 χ^2/NDF : 1141879.5/30

Out: 106.016 $\pm$ 0.015 χ^2/NDF : 1894902.8/35

All: 106.177 $\pm$ 0.011 χ^2/NDF : 3037018.4/66

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1094.817 $\pm$ 618.425 χ^2/NDF : 5.1/7

Left Out: -766.358 $\pm$ 161.066 χ^2/NDF : 46.5/24

Right Out: 938.544 $\pm$ 561.206 χ^2/NDF : 8.2/10

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

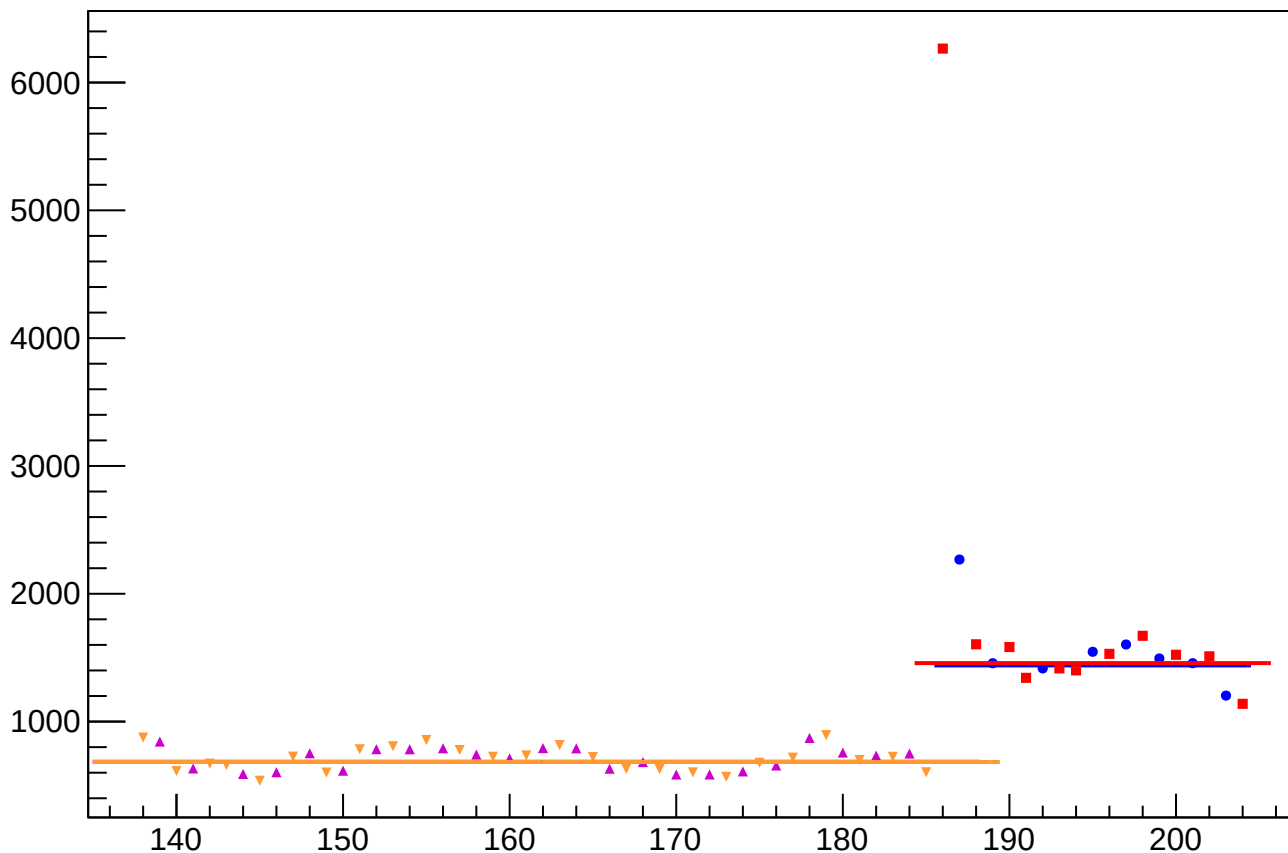
Right: 20.261 $\pm$ 415.593 χ^2/NDF : 19.3/18

In: 96.115 $\pm$ 160.028 χ^2/NDF : 34.1/30

Out: -636.613 $\pm$ 154.816 χ^2/NDF : 63.3/35

All: -282.375 $\pm$ 111.269 χ^2/NDF : 108.2/66

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1439.459+/-0.437 χ^2/NDF : 127738.0/7

Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24

Right Out: 1457.559+/-0.397 χ^2/NDF : 606580.3/10

Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47

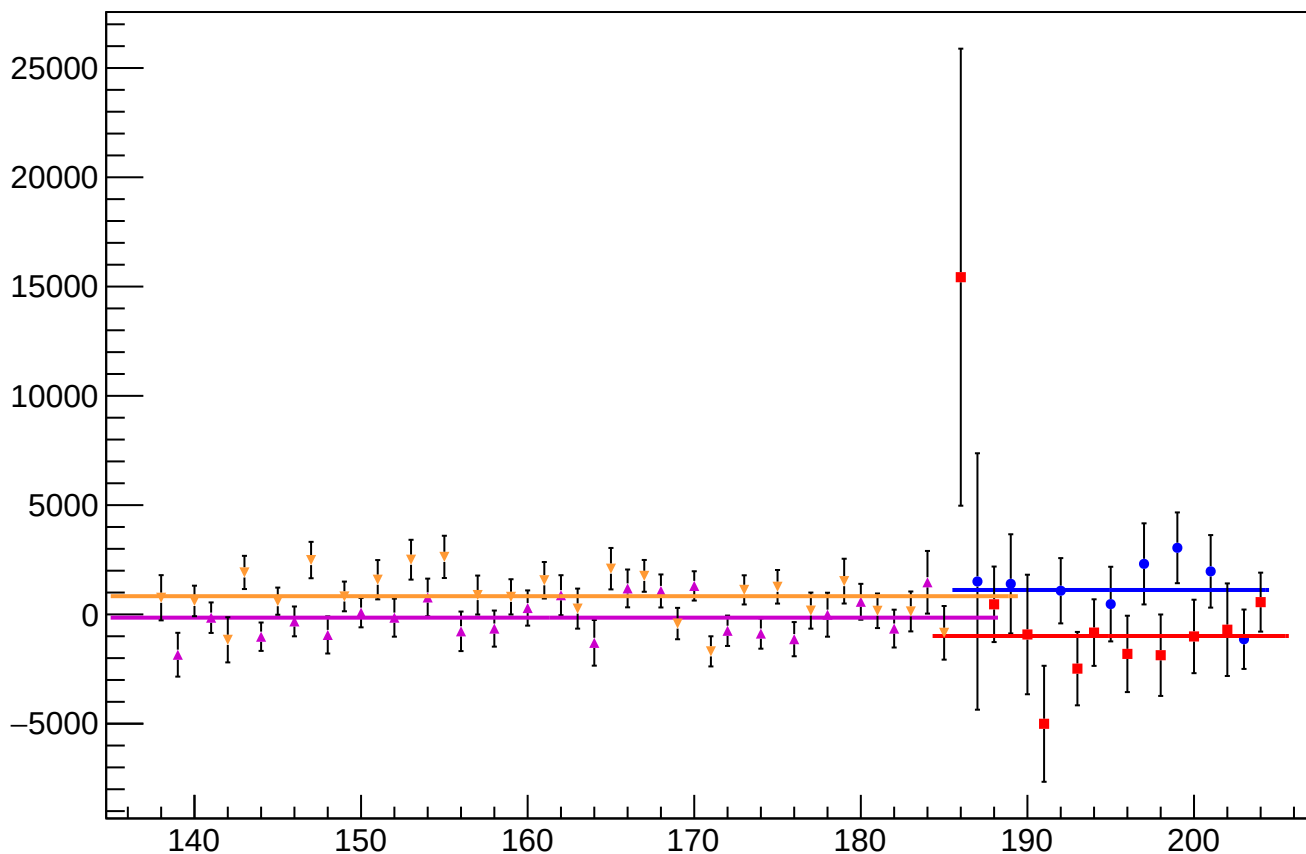
Right: 1449.385+/-0.294 χ^2/NDF : 735257.7/18

In: 736.072+/-0.113 χ^2/NDF : 3430064.6/30

Out: 742.762+/-0.109 χ^2/NDF : 4785510.1/35

All: 739.528+/-0.079 χ^2/NDF : 8217380.0/66

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1117.347 $\pm$ 621.144 χ^2 /NDF: 5.0/7

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -988.210 $\pm$ 563.634 χ^2 /NDF: 8.0/10

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

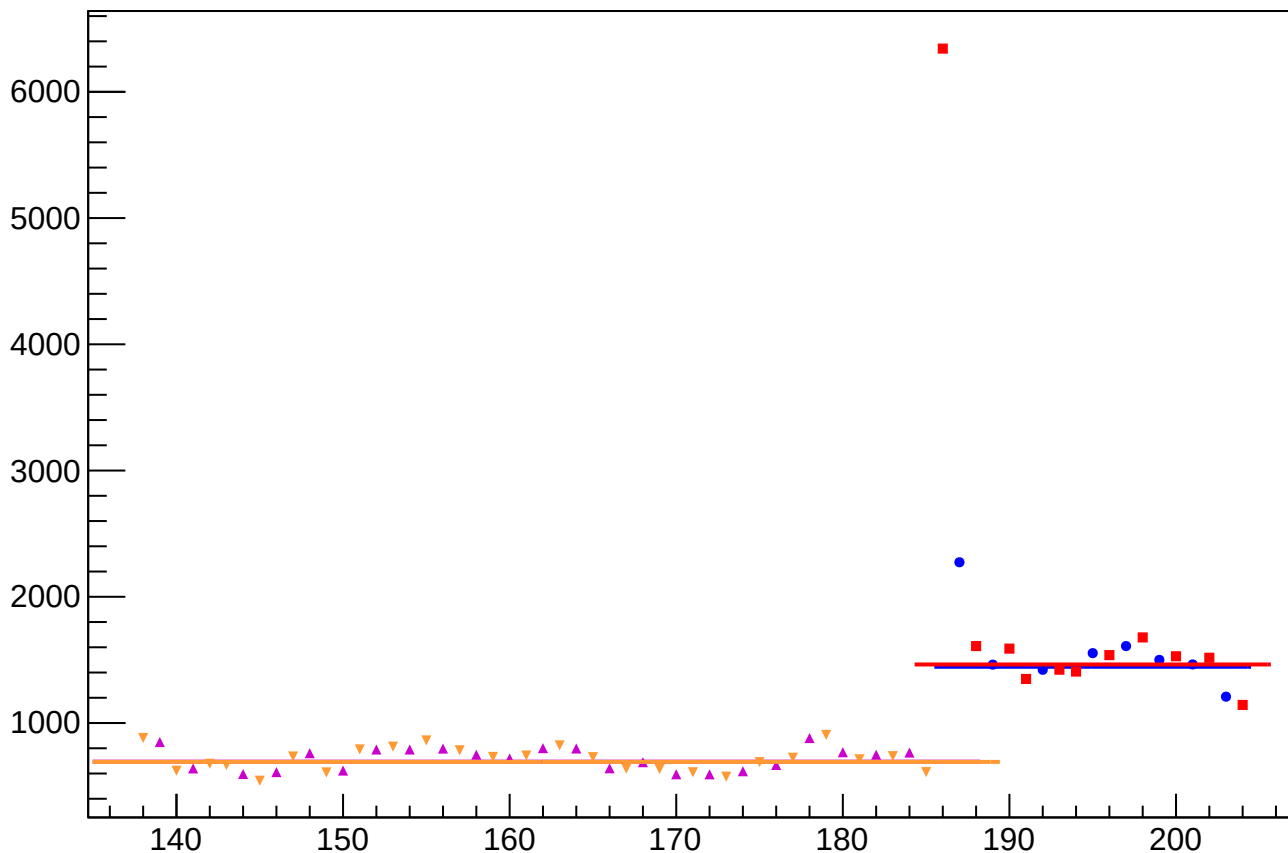
Right: -37.396 $\pm$ 417.404 χ^2 /NDF: 19.4/18

In: -62.845 $\pm$ 161.853 χ^2 /NDF:34.9/30

Out: 692.861 $\pm$ 156.553 χ^2 /NDF:60.9/35

All: 327.584 $\pm$ 112.527 χ^2 /NDF: 107.1/66

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1445.827 $\pm$ 0.439 χ^2/NDF : 127518.9/7

Left Out: 692.097 $\pm$ 0.115 χ^2/NDF : 657259.6/24

Right Out: 1463.807 $\pm$ 0.399 χ^2/NDF : 608736.3/10

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

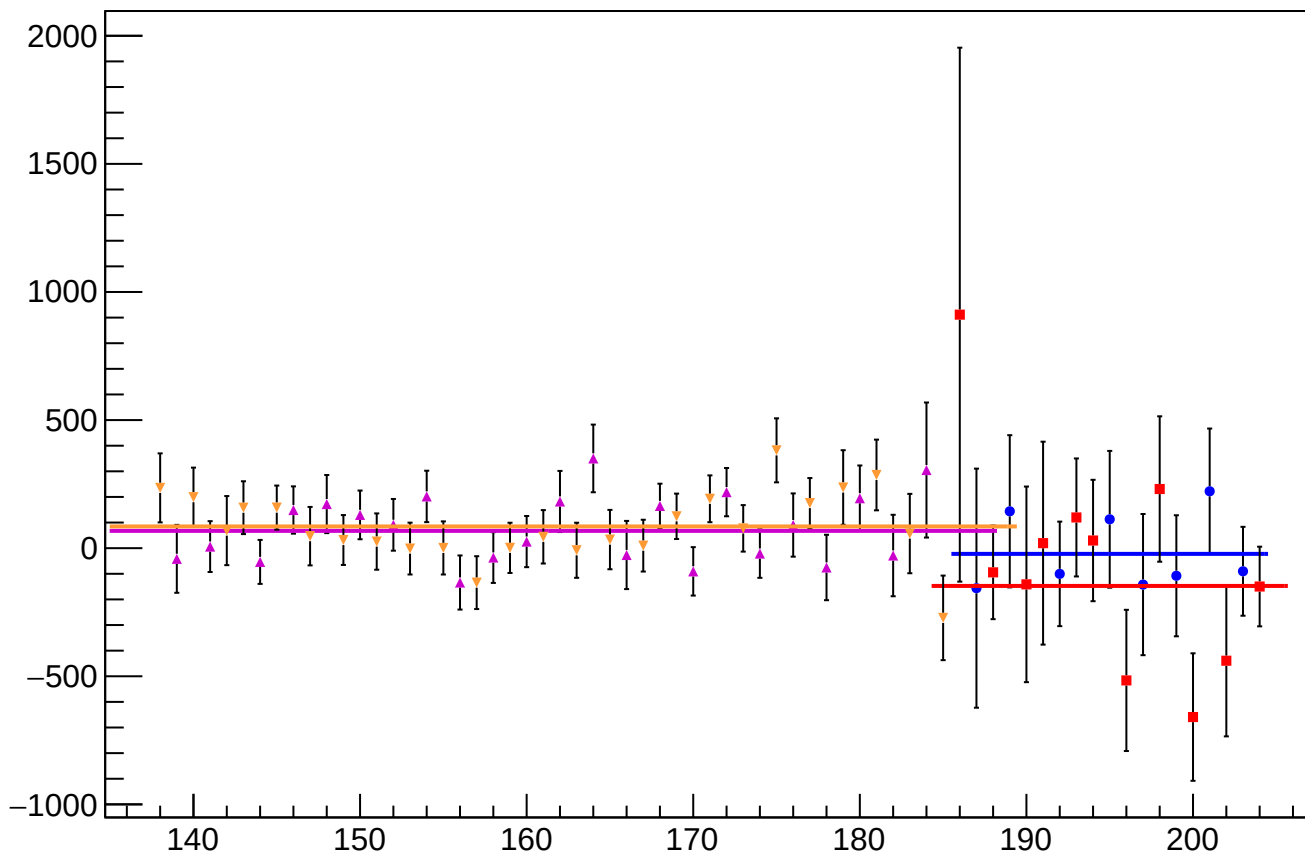
Right: 1455.688 $\pm$ 0.295 χ^2/NDF : 737174.3/18

In: 744.923 $\pm$ 0.114 χ^2/NDF : 3381684.3/30

Out: 751.633 $\pm$ 0.111 χ^2/NDF : 4725995.2/35

All: 748.390 $\pm$ 0.080 χ^2/NDF : 8109455.0/66

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -22.252 ± 86.068 χ^2/NDF : 2.3/7

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -147.359 ± 75.515 χ^2/NDF : 12.0/10

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

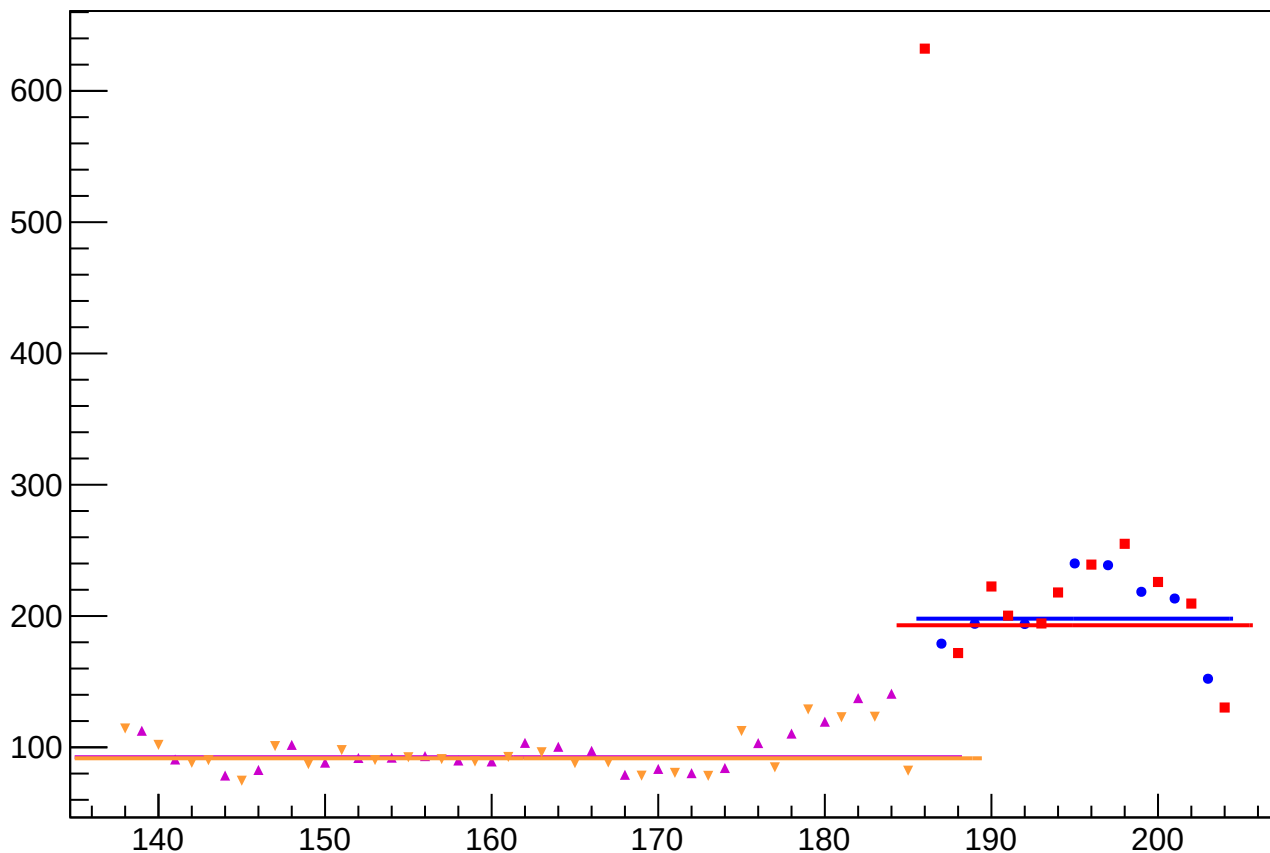
Right: -92.941 ± 56.764 χ^2/NDF : 15.4/18

In: 61.832 ± 21.722 χ^2/NDF : 32.1/30

Out: 67.233 ± 20.805 χ^2/NDF : 49.2/35

All: 64.649 ± 15.025 χ^2/NDF : 81.4/66

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 197.987 $\pm$ 0.061 χ^2 /NDF: 259885.3/7

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 192.961 $\pm$ 0.053 χ^2 /NDF: 935208.9/10

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

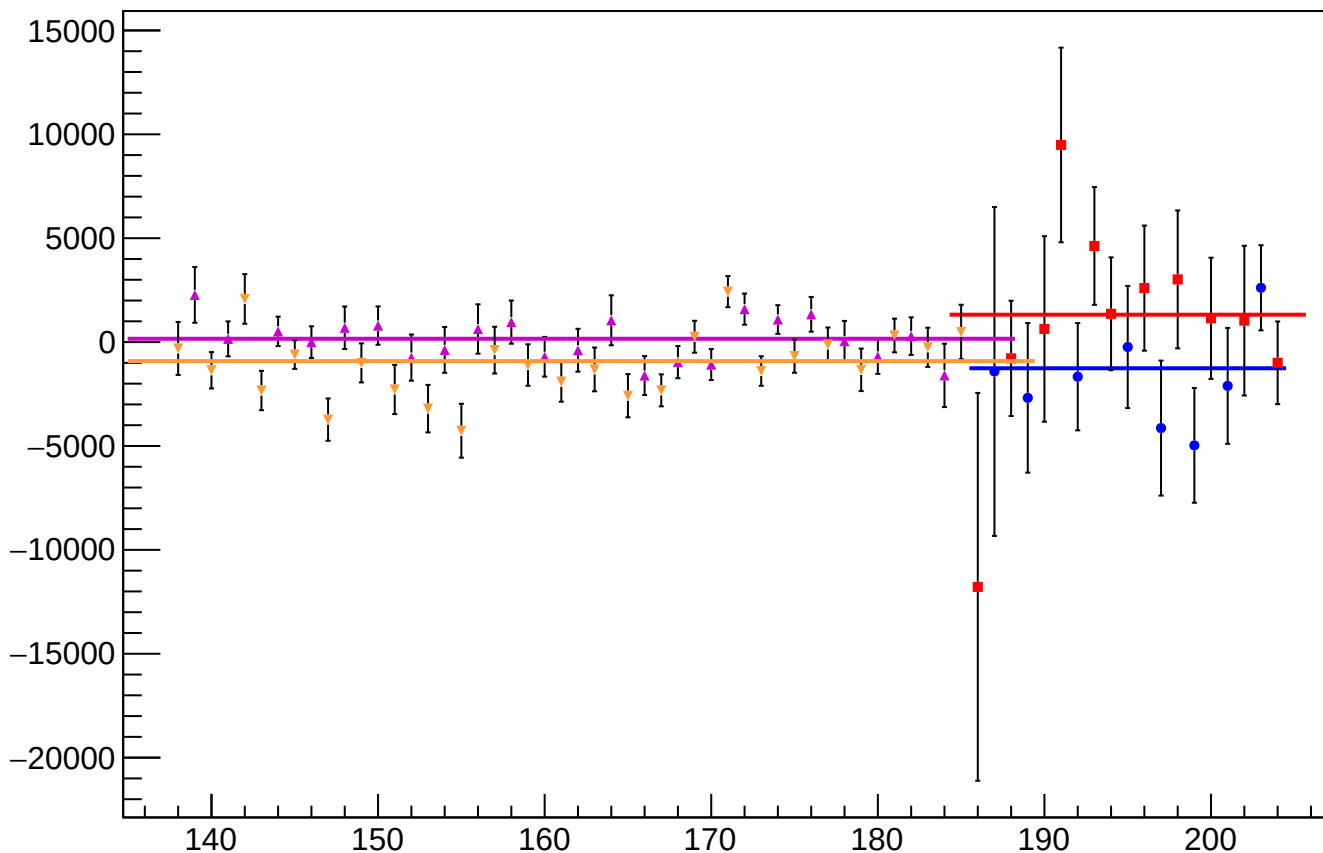
Right: 195.147 $\pm$ 0.040 χ^2 /NDF: 1198946.6/18

In: 99.187 $\pm$ 0.015 χ^2 /NDF: 3730299.5/30

Out: 99.324 $\pm$ 0.015 χ^2 /NDF: 4955998.3/35

All: 99.259 $\pm$ 0.011 χ^2 /NDF: 8686339.1/66

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1259.739 $\pm$ 1024.970 χ^2 /NDF: 6.6/7

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF: 64.2/24

Right Out: 1319.134 $\pm$ 934.214 χ^2 /NDF: 8.8/10

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF: 25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

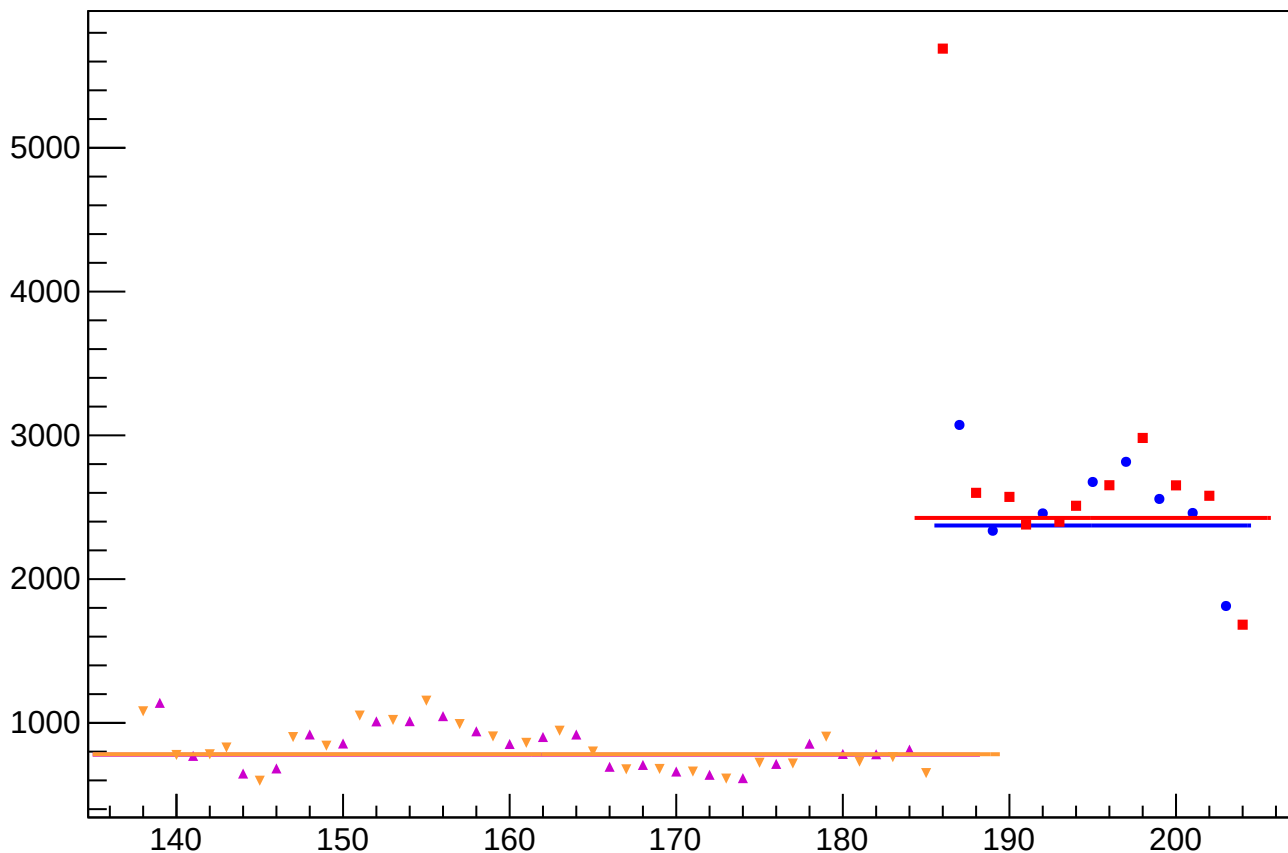
Right: 148.903 $\pm$ 690.449 χ^2 /NDF: 18.8/18

In: 114.120 $\pm$ 186.333 χ^2 /NDF: 33.5/30

Out: -830.125 $\pm$ 181.798 χ^2 /NDF: 78.5/35

All: -369.634 $\pm$ 130.124 χ^2 /NDF: 125.1/66

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2373.004 $\pm$ 0.725 χ^2 /NDF: 236742.9/7

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2425.642 $\pm$ 0.661 χ^2 /NDF: 618983.3/10

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

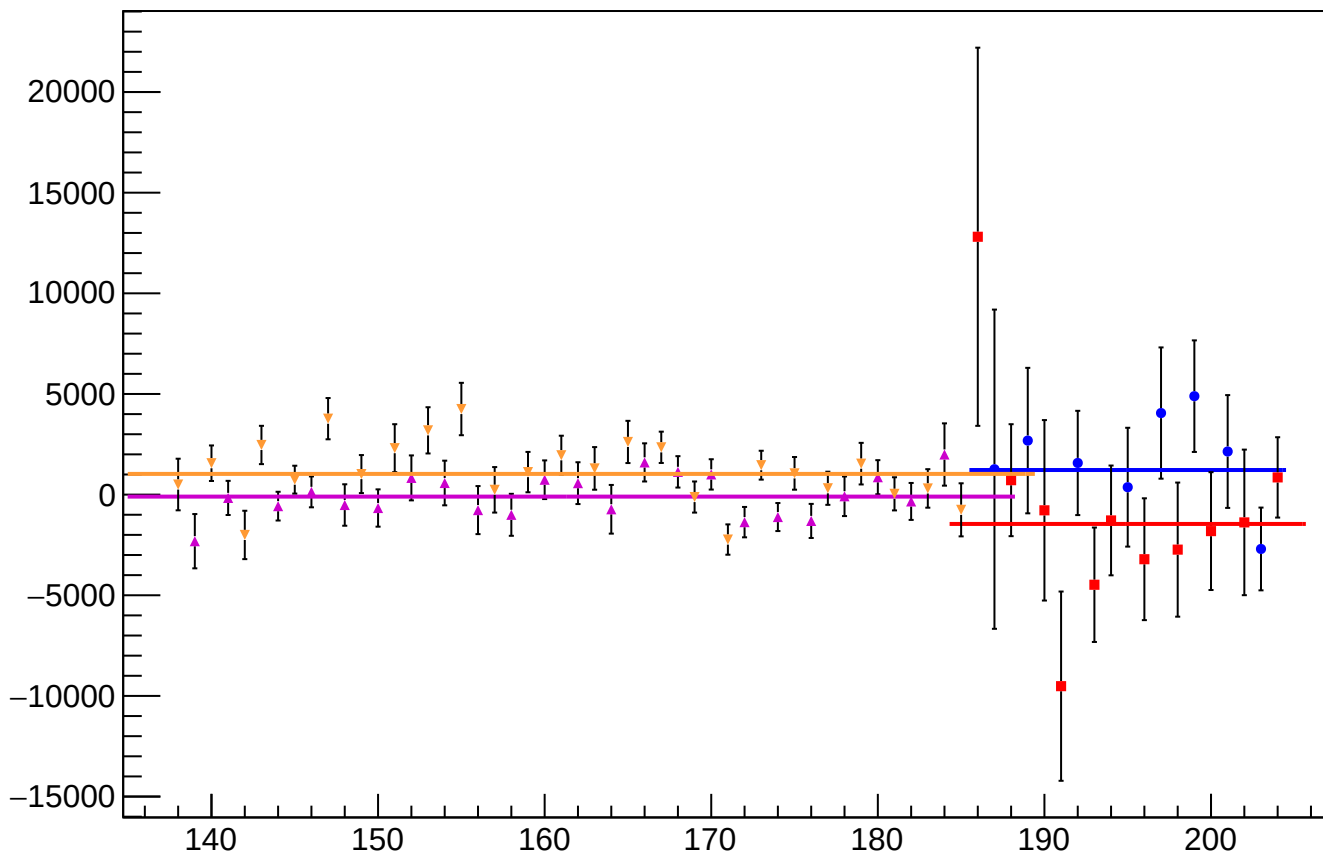
Right: 2401.756 $\pm$ 0.488 χ^2 /NDF: 858607.3/18

In: 831.675 $\pm$ 0.132 χ^2 /NDF: 5894275.3/30

Out: 844.283 $\pm$ 0.129 χ^2 /NDF: 7706087.4/35

All: 838.134 $\pm$ 0.092 χ^2 /NDF: 13605054.0/60

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1222.483 $\pm$ 1028.904 χ^2 /NDF: 6.5/7

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF: 60.2/24

Right Out: -1456.730 $\pm$ 937.589 χ^2 /NDF: 8.9/10

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

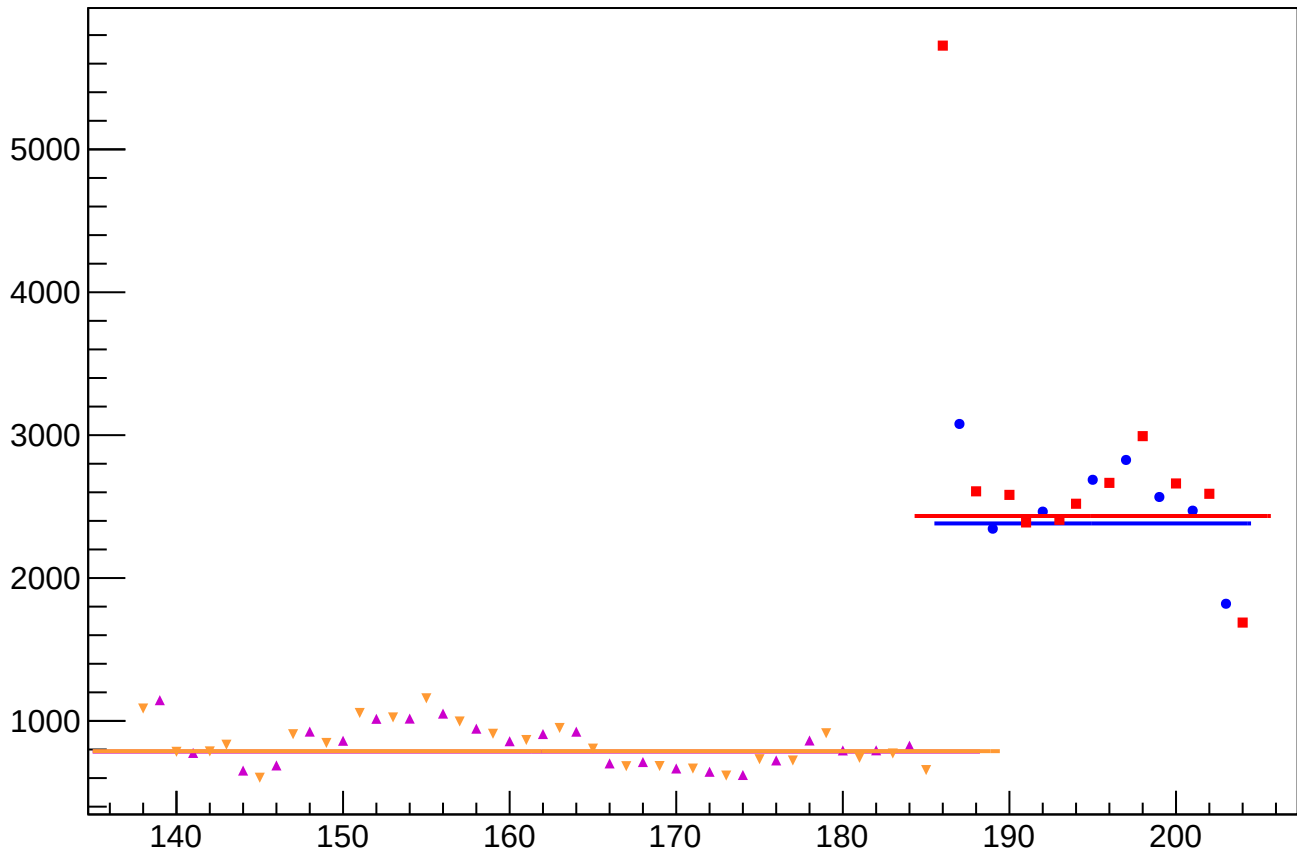
Right: -241.266 $\pm$ 693.014 χ^2 /NDF: 19.1/18

In: -54.668 $\pm$ 187.817 χ^2 /NDF: 33.5/30

Out: 933.957 $\pm$ 183.209 χ^2 /NDF: 75.8/35

All: 451.922 $\pm$ 131.147 χ^2 /NDF: 123.5/66

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2382.123+/-0.728 χ^2/NDF : 236719.8/7

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2434.235+/-0.663 χ^2/NDF : 621073.5/10

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

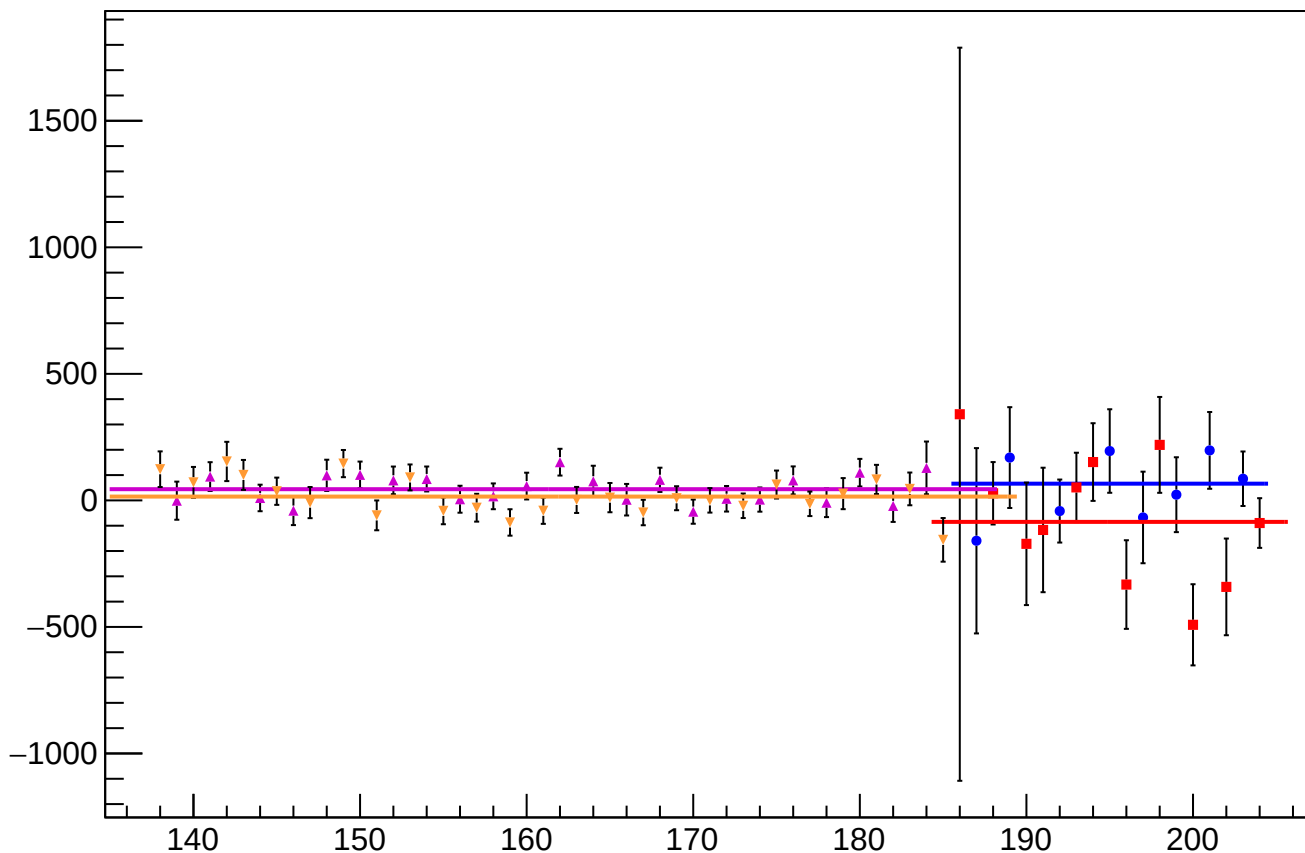
Right: 2410.593+/-0.490 χ^2/NDF : 860596.2/18

In: 838.692+/-0.133 χ^2/NDF : 5857621.9/30

Out: 851.283+/-0.130 χ^2/NDF : 7661992.1/35

All: 845.144+/-0.093 χ^2/NDF : 13524219.6/60

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 66.089 ± 54.241 χ^2/NDF : 3.4/7

Left Out: 15.099 ± 11.154 χ^2/NDF : 34.2/24

Right Out: -84.899 ± 48.443 χ^2/NDF : 17.3/10

Left In: 44.297 ± 11.530 χ^2/NDF : 22.3/22

Left: 29.215 ± 8.017 χ^2/NDF : 59.8/47

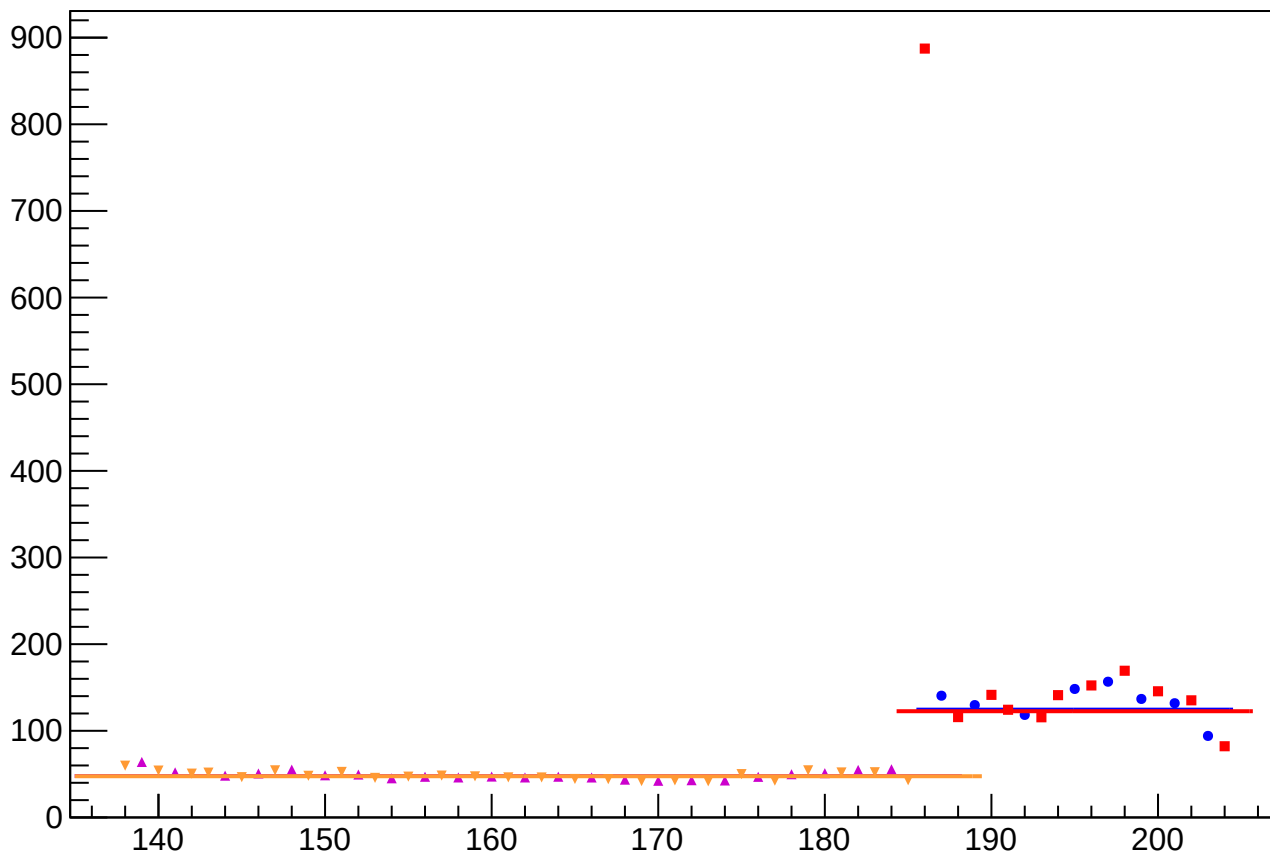
Right: -17.903 ± 36.131 χ^2/NDF : 25.0/18

In: 45.239 ± 11.278 χ^2/NDF : 25.9/30

Out: 10.064 ± 10.870 χ^2/NDF : 55.5/35

All: 27.004 ± 7.826 χ^2/NDF : 86.4/66

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 124.412 $\pm$ 0.038 χ^2 /NDF: 292771.6/7

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 122.606 $\pm$ 0.034 χ^2 /NDF: 1178740.4/10

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

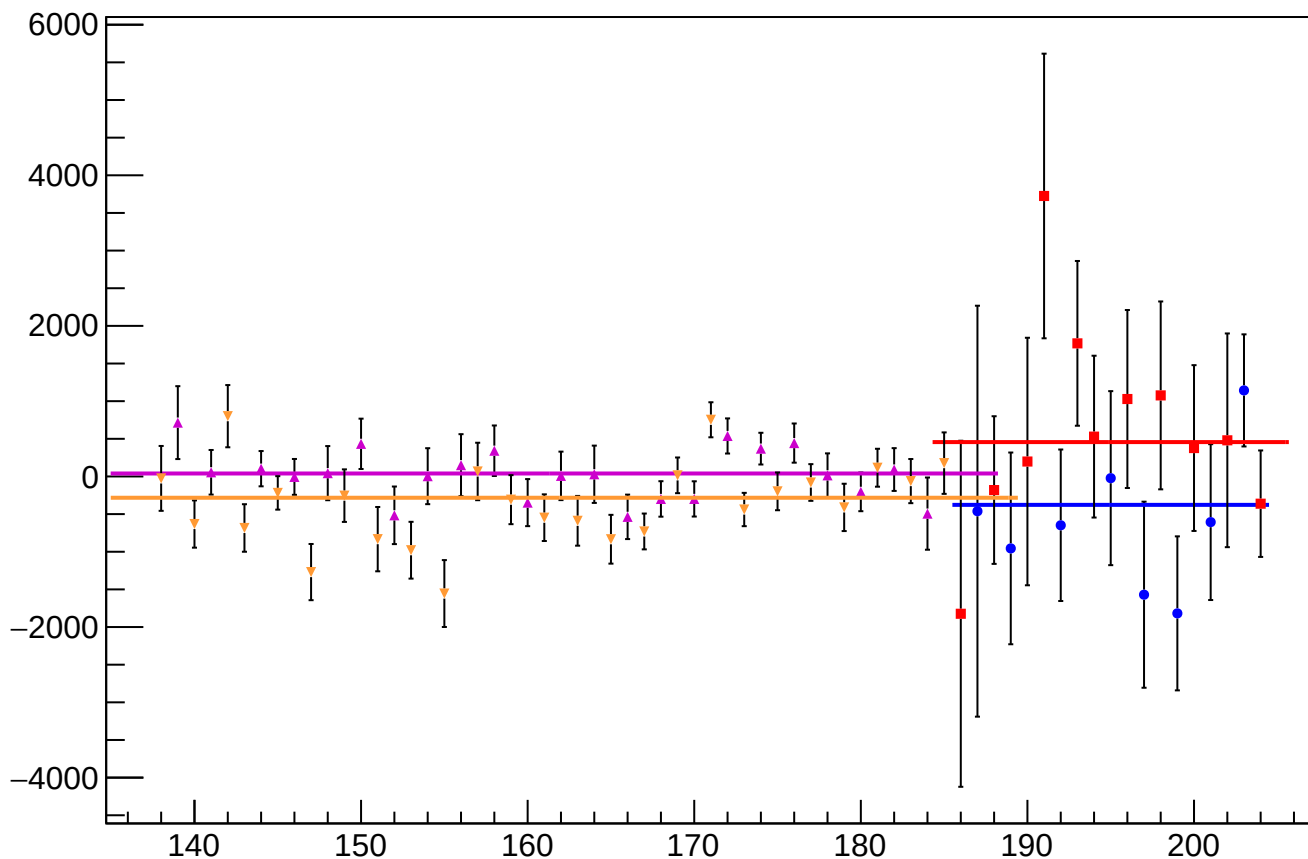
Right: 123.407 $\pm$ 0.026 χ^2 /NDF: 1472745.4/18

In: 51.156 $\pm$ 0.008 χ^2 /NDF: 4387417.5/30

Out: 51.363 $\pm$ 0.008 χ^2 /NDF: 6046483.4/35

All: 51.263 $\pm$ 0.006 χ^2 /NDF: 10434251.2/66

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -377.264 ± 382.460 χ^2/NDF : 7.5/7

Left Out: -282.798 ± 59.690 χ^2/NDF : 66.5/24

Right Out: 456.529 ± 347.930 χ^2/NDF : 7.7/10

Left In: 39.432 ± 60.759 χ^2/NDF : 27.5/22

Left: -124.543 ± 42.580 χ^2/NDF : 108.4/47

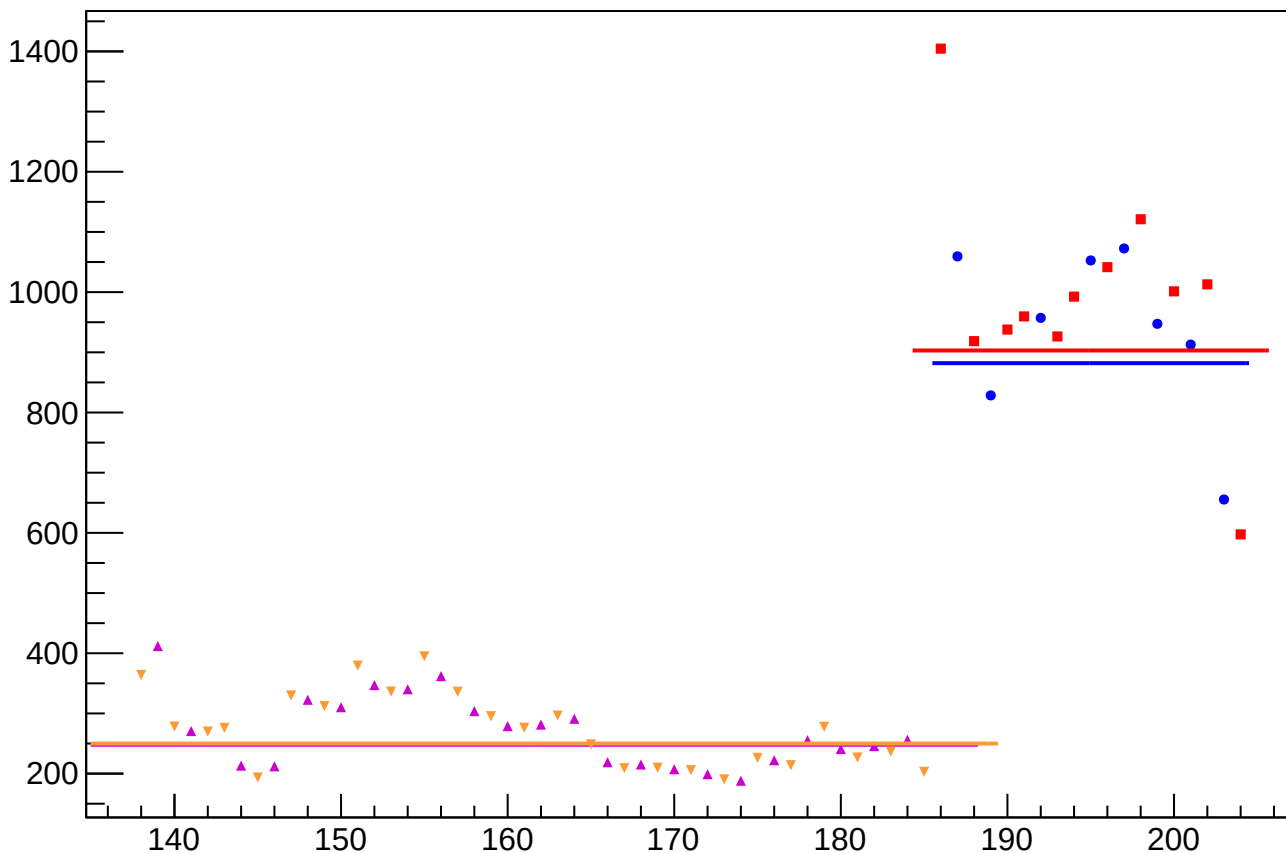
Right: 78.963 ± 257.367 χ^2/NDF : 17.8/18

In: 29.174 ± 60.006 χ^2/NDF : 36.2/30

Out: -261.661 ± 58.830 χ^2/NDF : 78.6/35

All: -119.121 ± 42.009 χ^2/NDF : 126.8/66

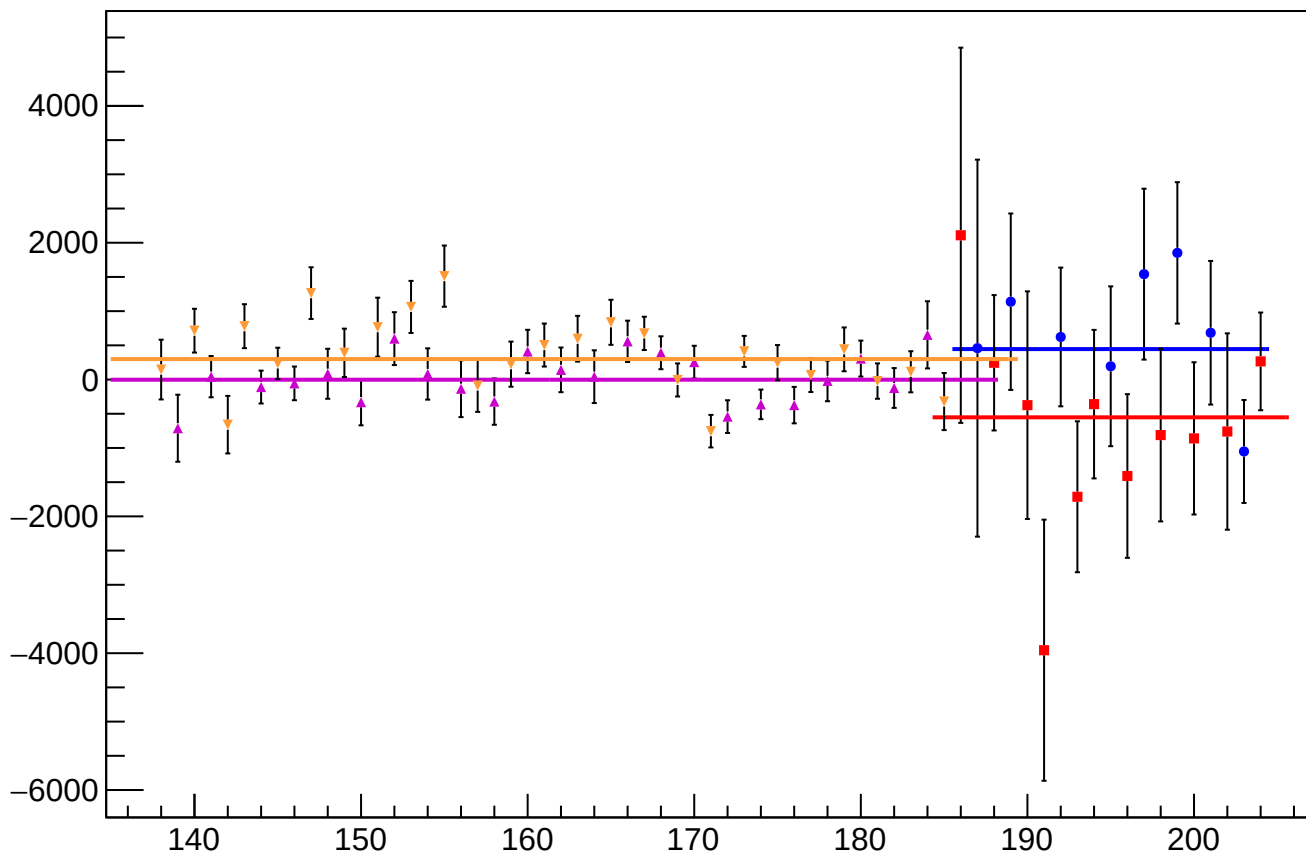
asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 882.022+/-0.270 χ^2/NDF : 309561.2/7
 Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24
 Right Out: 903.081+/-0.246 χ^2/NDF : 603154.8/10
 Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47
 Right: 893.545+/-0.182 χ^2/NDF : 916033.9/18
 In: 263.526+/-0.042 χ^2/NDF : 7082771.3/30
 Out: 268.630+/-0.042 χ^2/NDF : 9063434.0/35
 All: 266.128+/-0.030 χ^2/NDF : 16153581.3/60

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 445.473+/-386.687 χ^2/NDF : 7.0/7

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -552.111+/-352.648 χ^2/NDF : 7.9/10

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

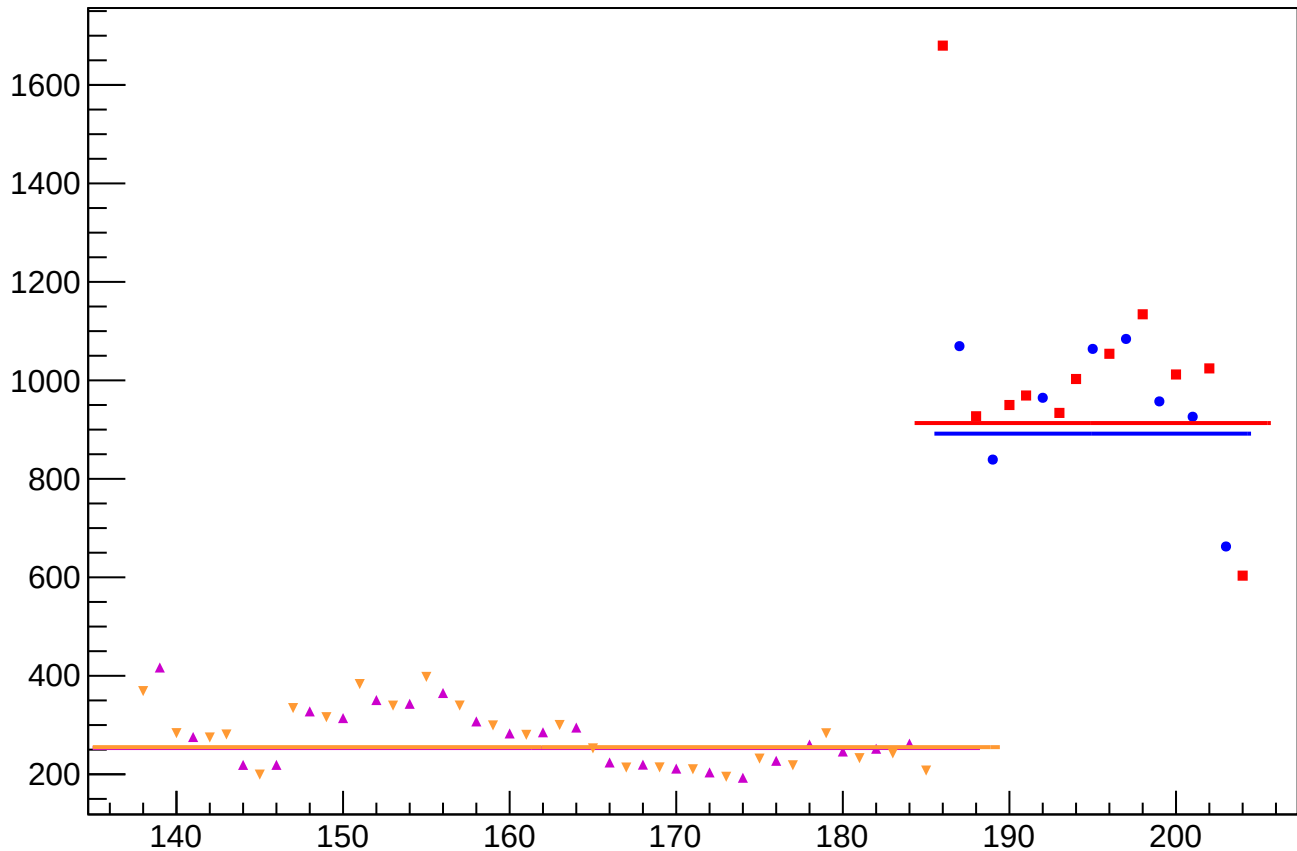
Right: -99.151+/-260.564 χ^2/NDF : 18.5/18

In: 9.036+/-61.223 χ^2/NDF : 37.5/30

Out: 274.930+/-59.973 χ^2/NDF : 76.0/35

All: 144.724+/-42.842 χ^2/NDF : 123.1/66

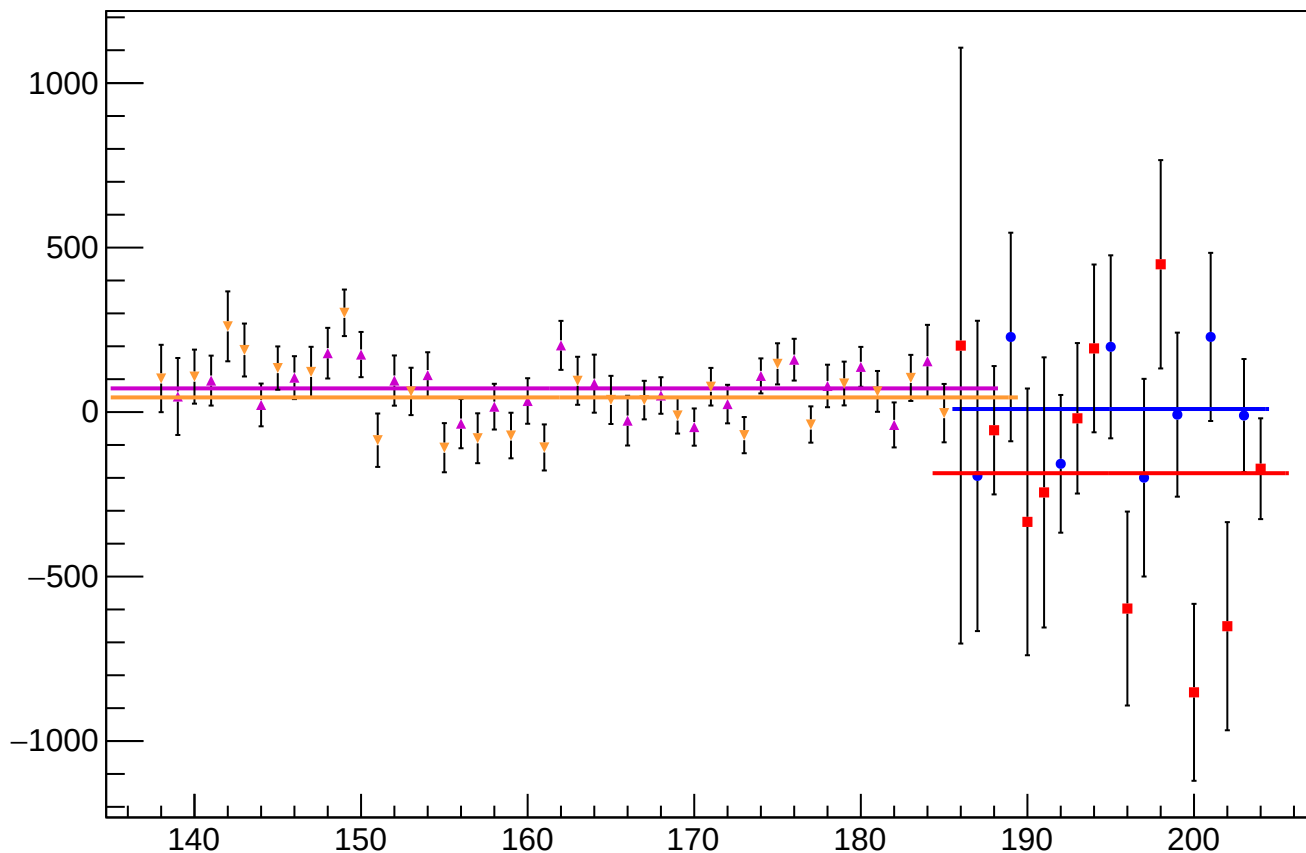
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 891.806 $\pm$ 0.273 χ^2 /NDF: 308375.7/7
 Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24
 Right Out: 913.328 $\pm$ 0.249 χ^2 /NDF: 666865.5/10
 Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47
 Right: 903.556 $\pm$ 0.184 χ^2 /NDF: 978623.6/18
 In: 269.293 $\pm$ 0.043 χ^2 /NDF:6966623.6/30
 Out: 274.172 $\pm$ 0.042 χ^2 /NDF:8974516.2/35
 All: 271.783 $\pm$ 0.030 χ^2 /NDF: 15947620.1/60

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 9.321 ± 88.892 $\chi^2/\text{NDF}: 3.0/7$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -185.764 ± 78.591 $\chi^2/\text{NDF}: 17.8/10$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

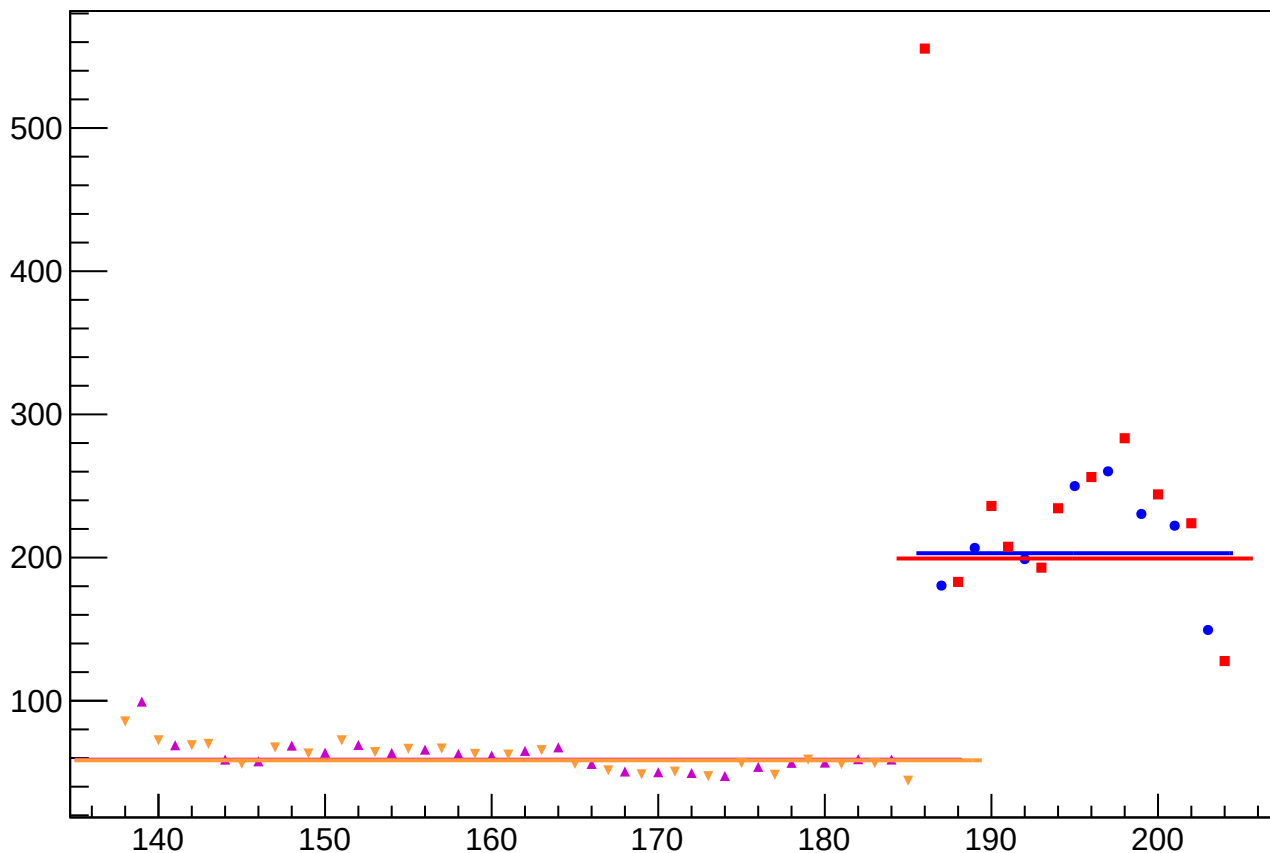
Right: -100.174 ± 58.879 $\chi^2/\text{NDF}: 23.5/18$

In: 70.456 ± 14.115 $\chi^2/\text{NDF}: 28.8/30$

Out: 37.688 ± 13.615 $\chi^2/\text{NDF}: 80.1/35$

All: 53.481 ± 9.799 $\chi^2/\text{NDF}: 111.6/66$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 203.042 $\pm$ 0.063 χ^2 /NDF: 365213.5/7

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 199.359 $\pm$ 0.056 χ^2 /NDF: 1099580.9/10

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

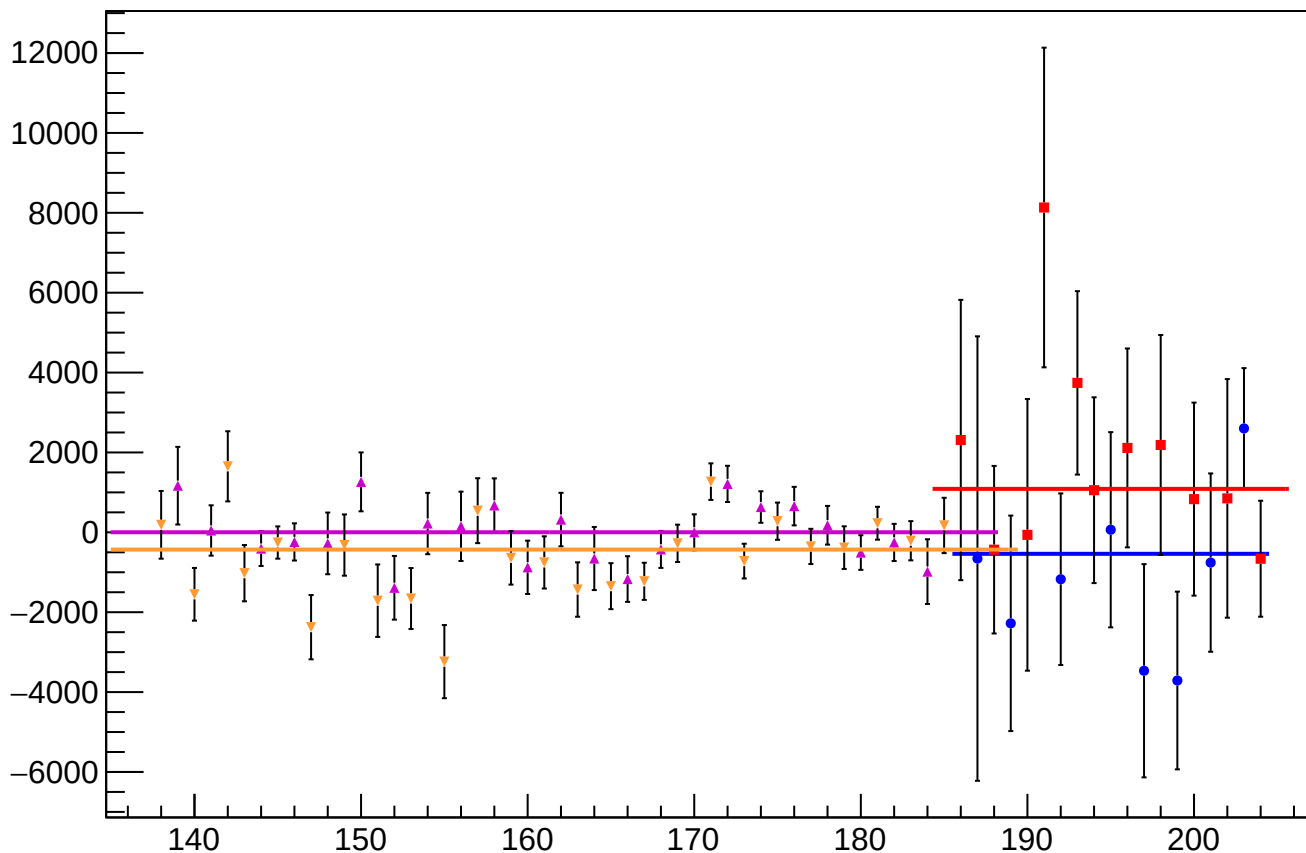
Right: 200.975 $\pm$ 0.042 χ^2 /NDF: 1466720.8/18

In: 62.476 $\pm$ 0.010 χ^2 /NDF: 6175628.7/30

Out: 62.653 $\pm$ 0.010 χ^2 /NDF: 8128382.9/35

All: 62.567 $\pm$ 0.007 χ^2 /NDF: 14304174.7/66

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -537.918 $\pm$ 807.139 χ^2 /NDF: 8.1/7

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1088.142 $\pm$ 728.769 χ^2 /NDF: 7.0/10

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

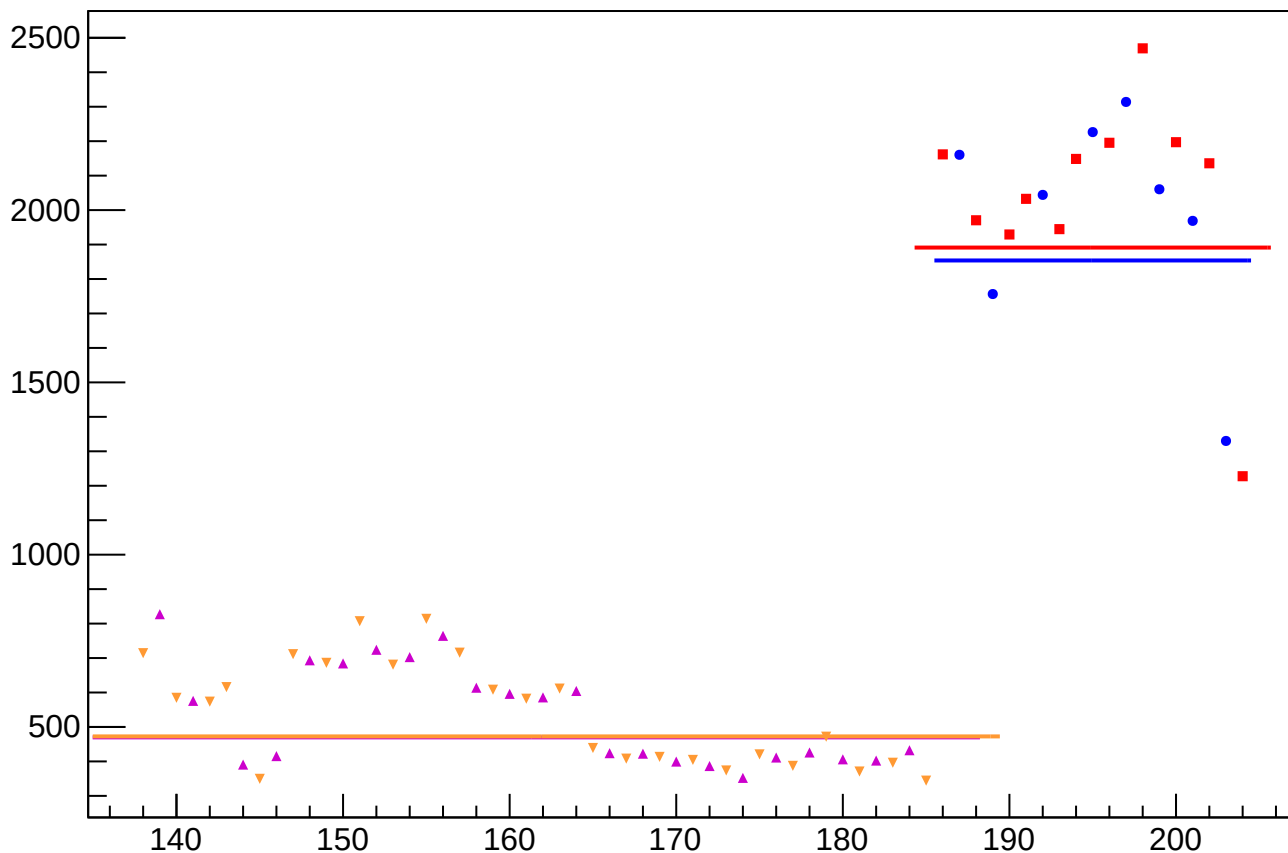
Right: 357.867 $\pm$ 540.908 χ^2 /NDF: 17.4/18

In: -9.182 $\pm$ 115.265 χ^2 /NDF:40.9/30

Out: -395.759 $\pm$ 113.024 χ^2 /NDF:70.6/35

All: -206.266 $\pm$ 80.701 χ^2 /NDF: 117.2/66

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1853.818 $\pm$ 0.571 χ^2 /NDF: 393240.1/7

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 1891.262 $\pm$ 0.515 χ^2 /NDF: 624399.9/10

Left In: 469.761 $\pm$ 0.082 χ^2 /NDF: 2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2 /NDF: 4625646.2/47

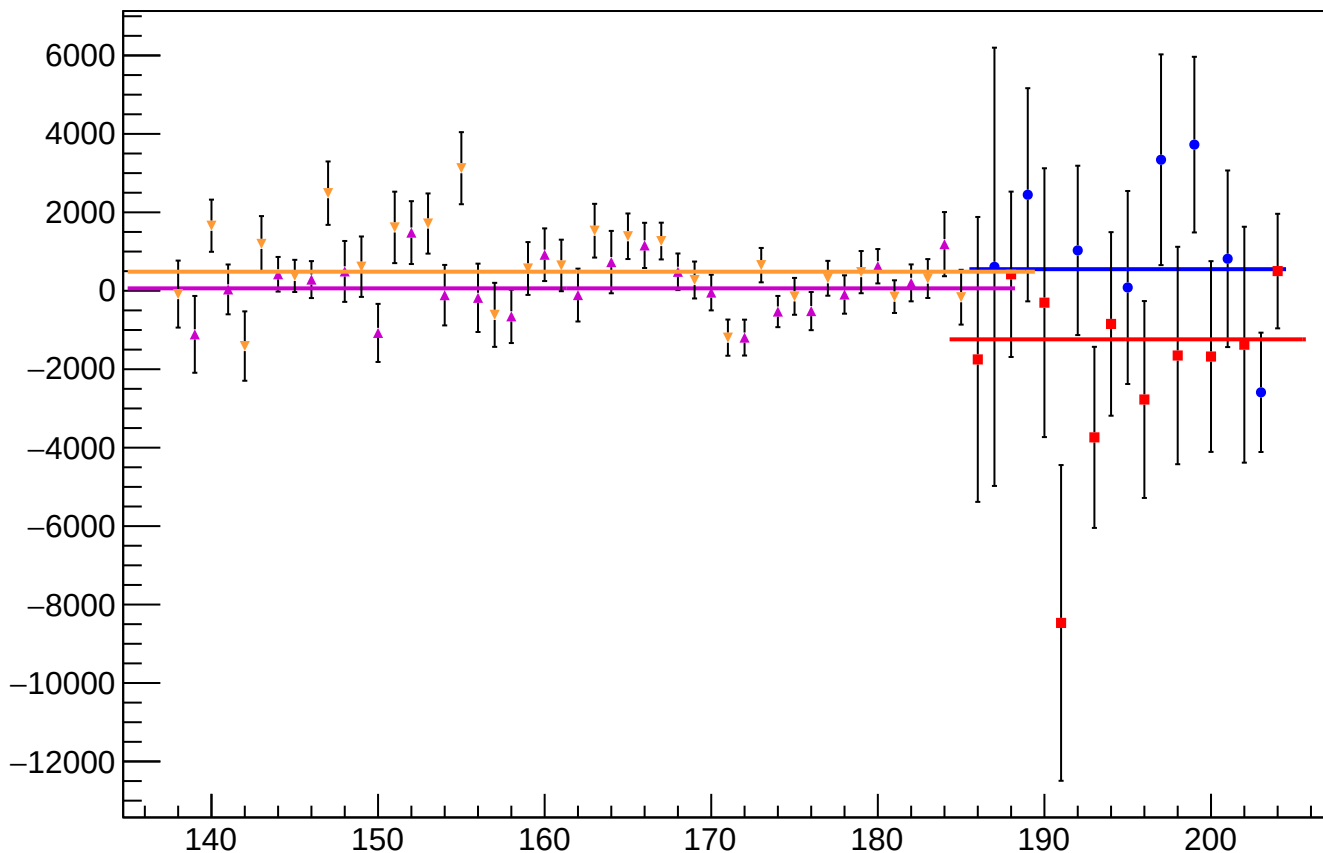
Right: 1874.445 $\pm$ 0.382 χ^2 /NDF: 1020011.1/18

In: 497.988 $\pm$ 0.082 χ^2 /NDF: 8271055.3/30

Out: 506.692 $\pm$ 0.080 χ^2 /NDF: 10529532.8/35

All: 502.425 $\pm$ 0.057 χ^2 /NDF: 18806402.8/66

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 550.735 $\pm$ 812.550 χ^2 /NDF: 7.9/7

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1237.876 $\pm$ 734.126 χ^2 /NDF: 7.0/10

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

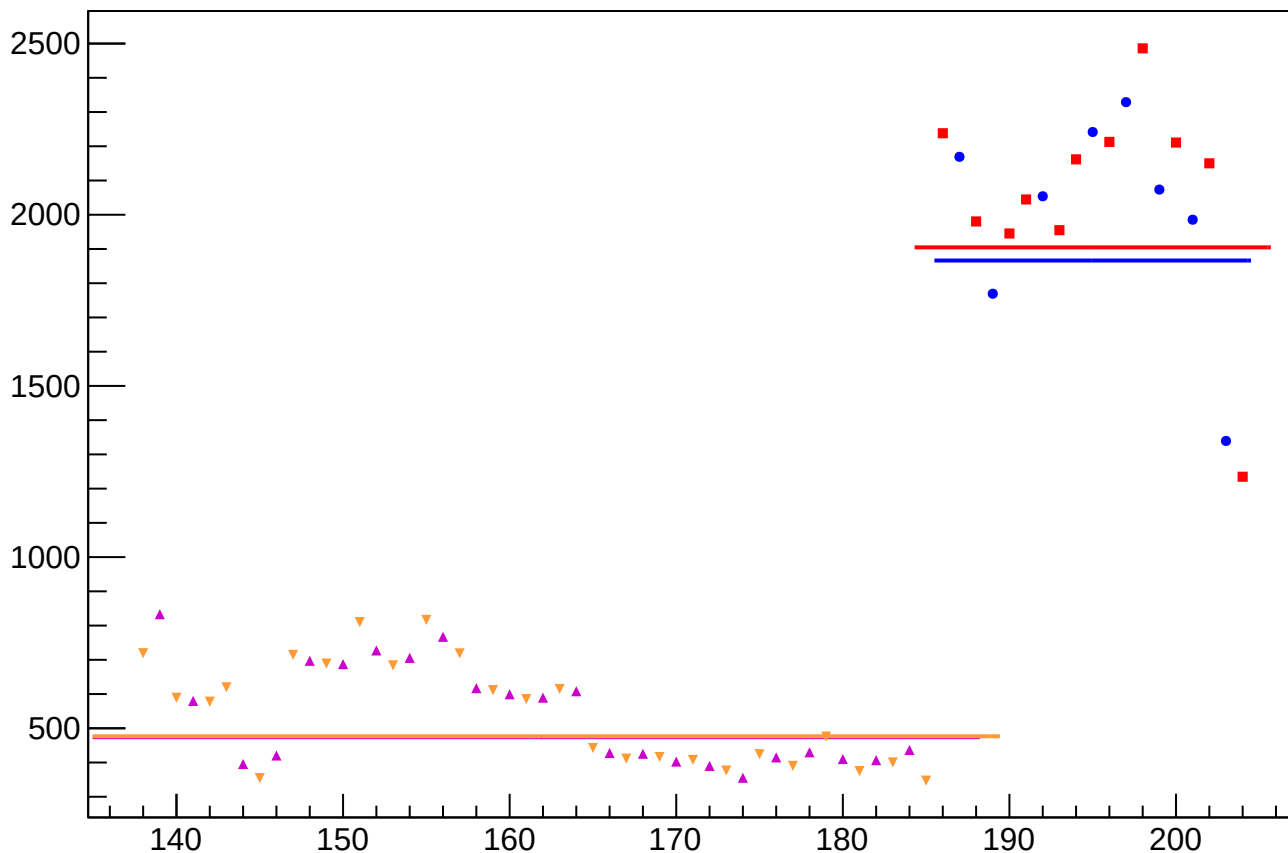
Right: -434.028 $\pm$ 544.727 χ^2 /NDF: 17.6/18

In: 71.782 $\pm$ 116.241 χ^2 /NDF:39.4/30

Out: 445.098 $\pm$ 113.948 χ^2 /NDF:68.4/35

All: 262.157 $\pm$ 81.372 χ^2 /NDF: 113.1/66

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1866.319+/-0.575 χ^2/NDF : 392146.1/7

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1904.750+/-0.519 χ^2/NDF : 631264.6/10

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

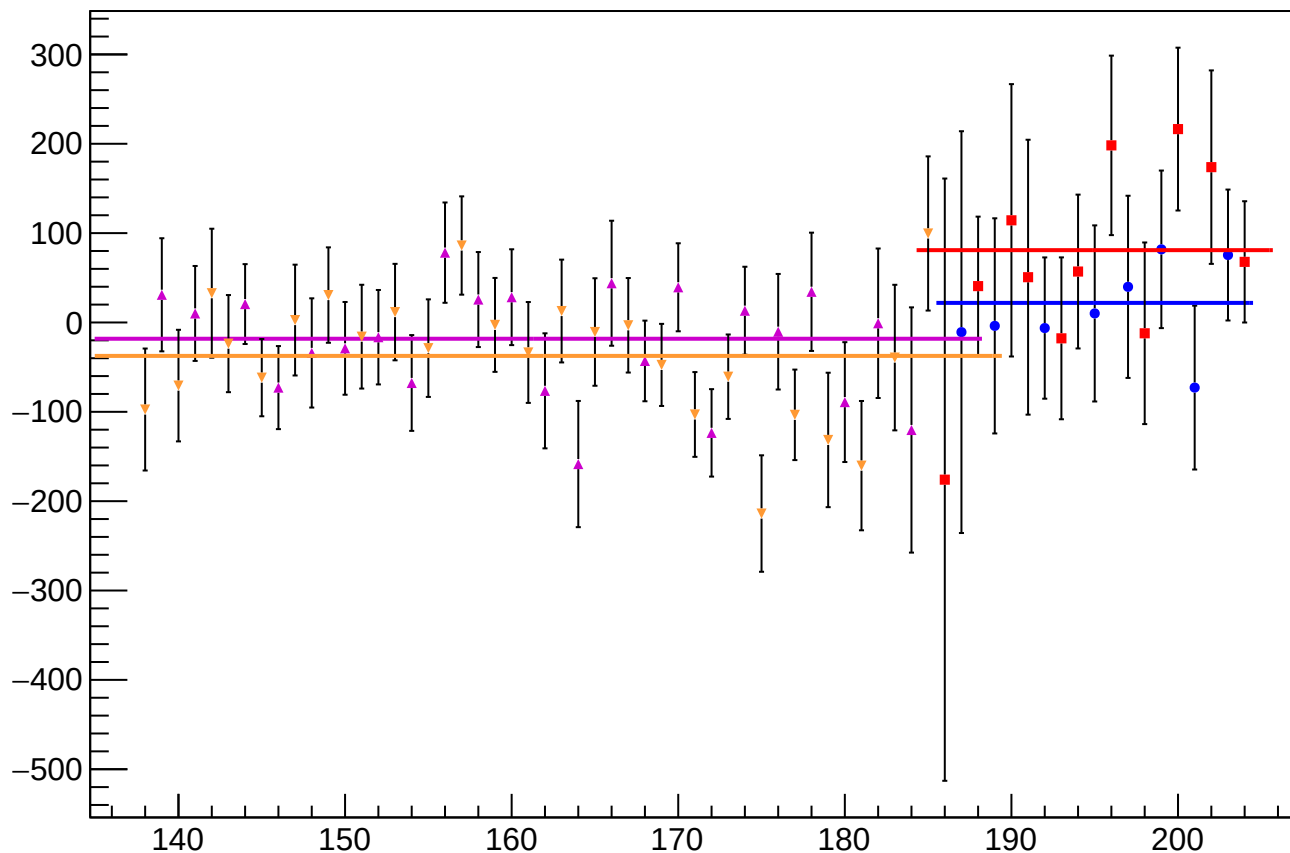
Right: 1887.478+/-0.385 χ^2/NDF : 1025874.0/18

In: 502.478+/-0.082 χ^2/NDF : 8231514.7/30

Out: 511.095+/-0.081 χ^2/NDF : 10489680.9/35

All: 506.872+/-0.058 χ^2/NDF : 18726800.3/66

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 21.917 $\pm$ 33.675 χ^2 /NDF: 2.3/7

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 80.936 $\pm$ 29.681 χ^2 /NDF: 7.4/10

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

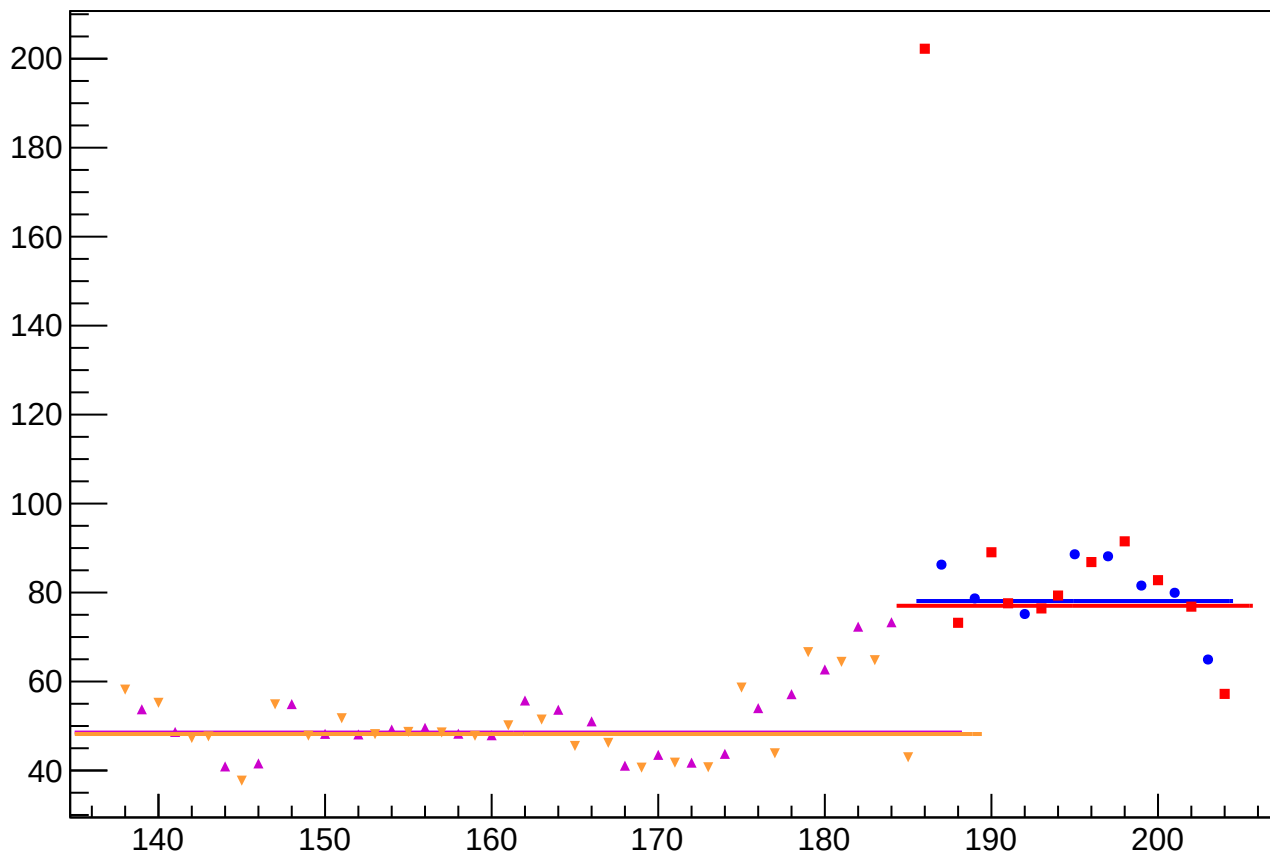
Right: 55.132 $\pm$ 22.266 χ^2 /NDF: 11.4/18

In: -13.830 $\pm$ 11.126 χ^2 /NDF:26.6/30

Out: -22.222 $\pm$ 10.634 χ^2 /NDF:51.7/35

All: -18.216 $\pm$ 7.687 χ^2 /NDF: 78.6/66

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 78.097 $\pm$ 0.024 χ^2 /NDF: 115961.4/7

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 77.027 $\pm$ 0.021 χ^2 /NDF: 533084.0/10

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

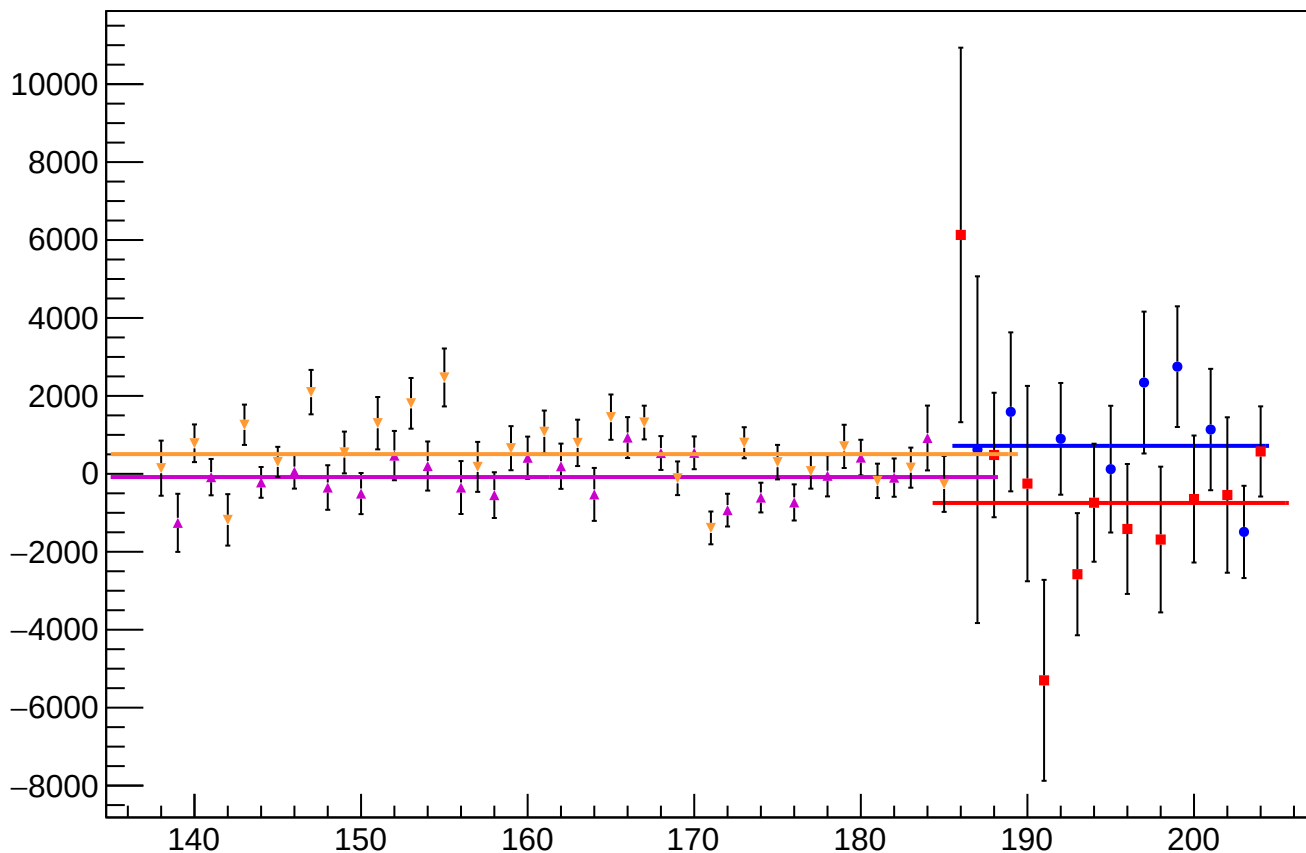
Right: 77.495 $\pm$ 0.016 χ^2 /NDF: 650183.1/18

In: 51.755 $\pm$ 0.008 χ^2 /NDF: 2165150.6/30

Out: 51.900 $\pm$ 0.008 χ^2 /NDF: 2927695.9/35

All: 51.830 $\pm$ 0.005 χ^2 /NDF: 5093024.3/66

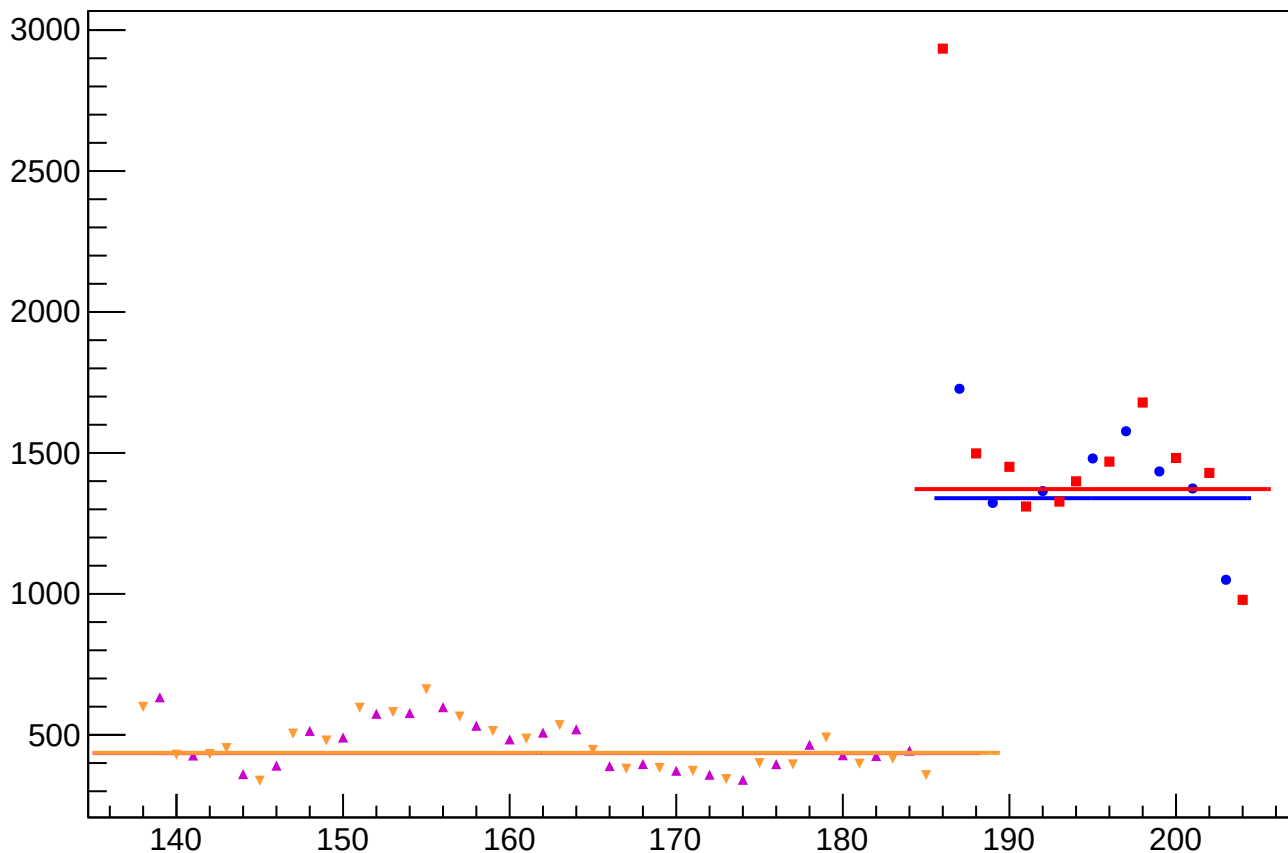
asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 718.246 $\pm$ 577.319 χ^2 /NDF: 6.4/7
 Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24
 Right Out: -746.771 $\pm$ 526.384 χ^2 /NDF: 8.9/10
 Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47
 Right: -81.727 $\pm$ 388.973 χ^2 /NDF: 18.8/18
 In: -56.340 $\pm$ 104.196 χ^2 /NDF:33.6/30
 Out: 459.595 $\pm$ 101.525 χ^2 /NDF:80.1/35
 All: 208.324 $\pm$ 72.715 χ^2 /NDF: 126.2/66

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1339.514+/-0.408 χ^2/NDF : 193070.8/7

Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24

Right Out: 1371.747+/-0.372 χ^2/NDF : 531668.6/10

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

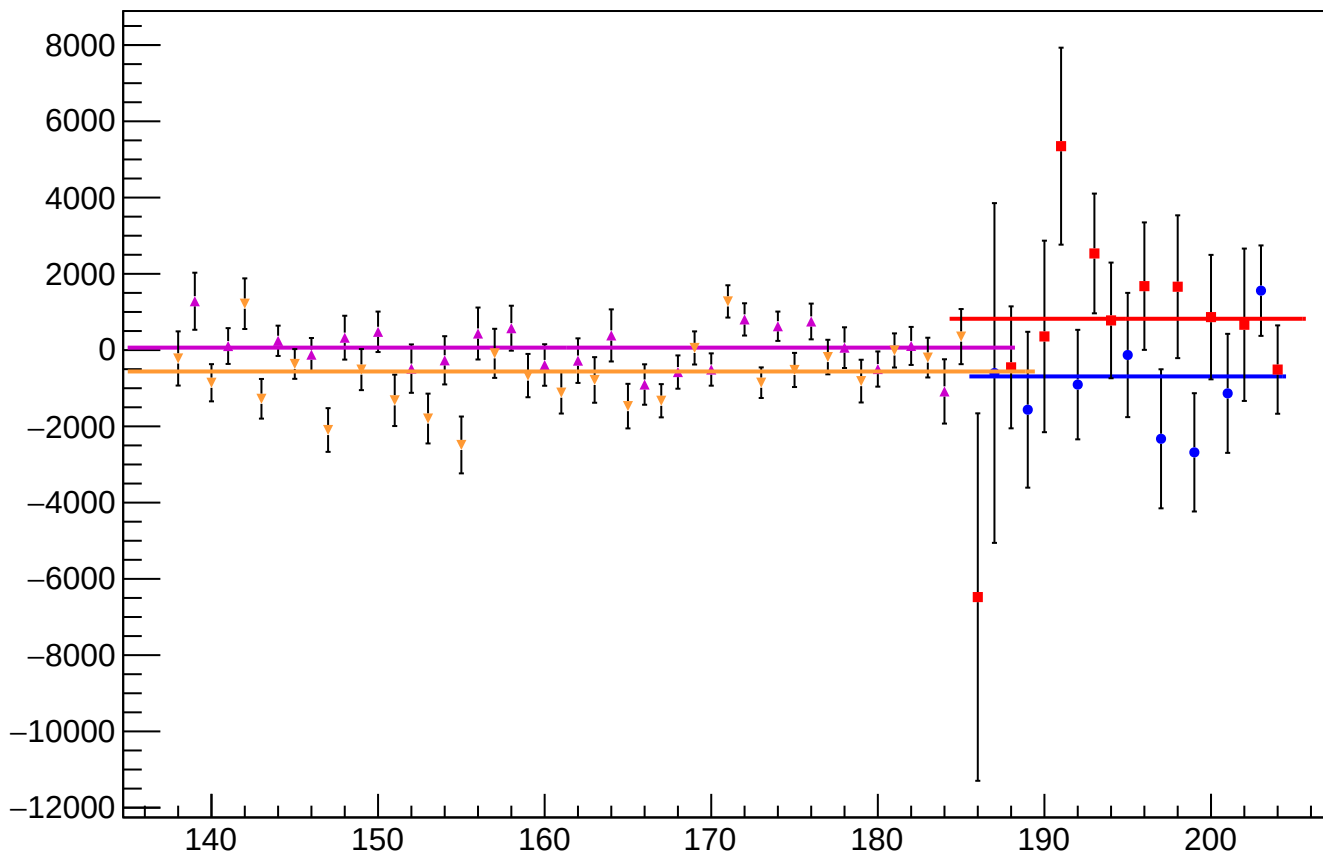
Right: 1357.115+/-0.275 χ^2/NDF : 728143.8/18

In: 464.729+/-0.074 χ^2/NDF :5967385.1/30

Out: 471.100+/-0.072 χ^2/NDF :7792331.8/35

All: 467.997+/-0.051 χ^2/NDF : 13763551.8/66

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -690.399+/-578.390 χ^2/NDF : 6.5/7

Left Out: -560.684+/-104.207 χ^2/NDF : 61.8/24

Right Out: 821.534+/-527.303 χ^2/NDF : 9.0/10

Left In: 64.594+/-106.708 χ^2/NDF : 25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

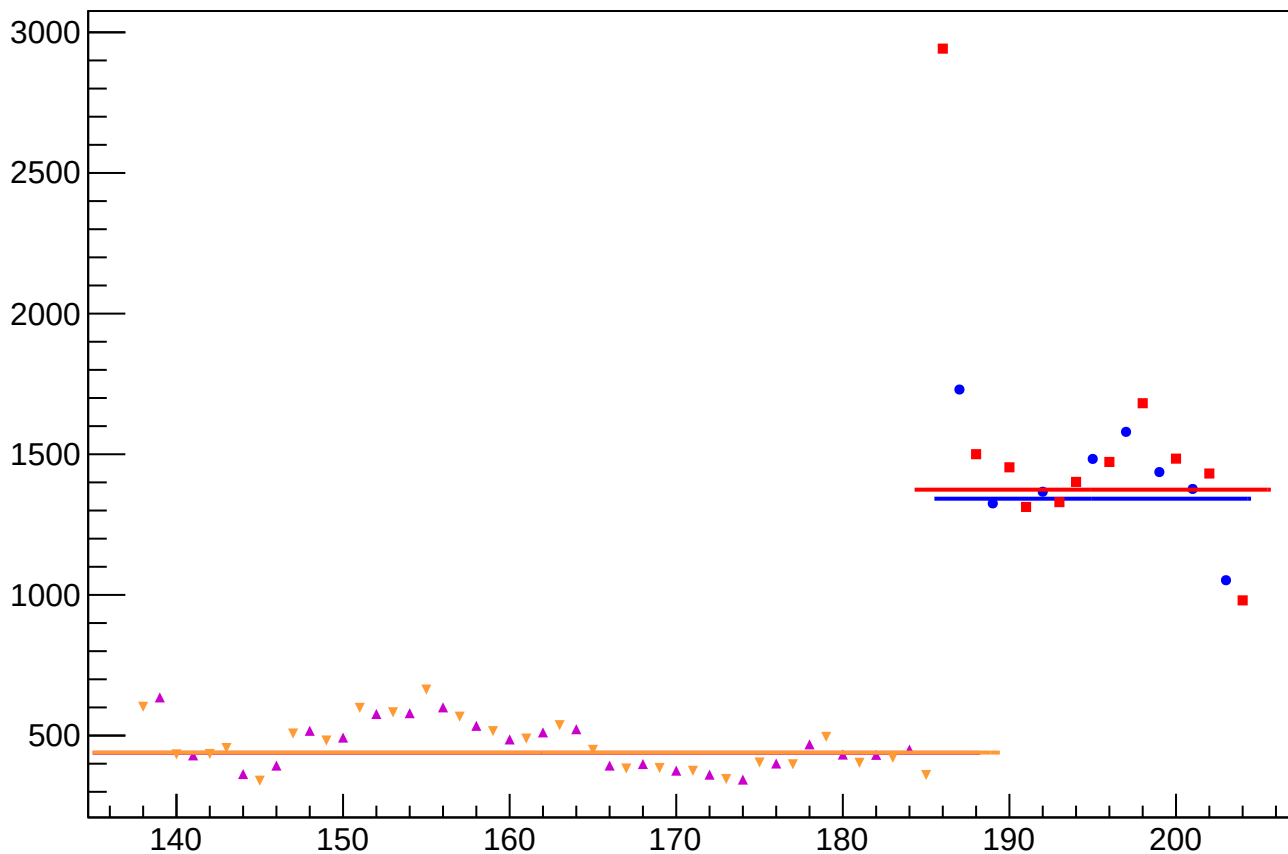
Right: 135.276+/-389.671 χ^2/NDF : 19.2/18

In: 39.743+/-104.937 χ^2/NDF : 33.3/30

Out: -508.731+/-102.230 χ^2/NDF : 77.4/35

All: -241.659+/-73.226 χ^2/NDF : 124.7/66

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1342.028+/-0.409 χ^2/NDF : 192732.0/7

Left Out: 439.527+/-0.074 χ^2/NDF : 1163352.8/24

Right Out: 1374.137+/-0.373 χ^2/NDF : 531797.2/10

Left In: 438.548+/-0.075 χ^2/NDF : 1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

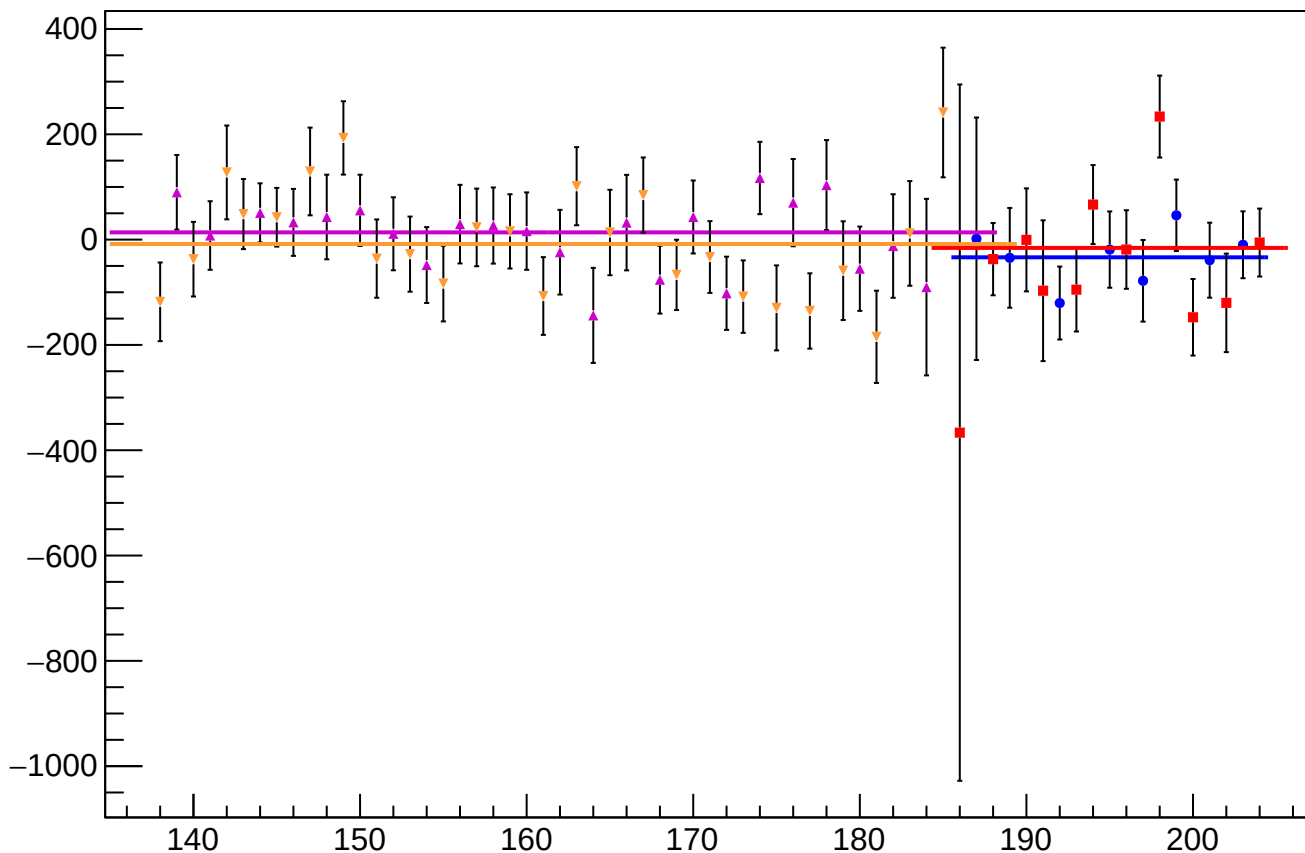
Right: 1359.563+/-0.276 χ^2/NDF : 727895.3/18

In: 468.287+/-0.074 χ^2/NDF : 5925241.6/30

Out: 474.656+/-0.072 χ^2/NDF : 7742053.7/35

All: 471.555+/-0.052 χ^2/NDF : 13671075.3/60

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -33.620 ± 27.135 $\chi^2/\text{NDF}: 3.5/7$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: -15.751 ± 25.001 $\chi^2/\text{NDF}: 17.8/10$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

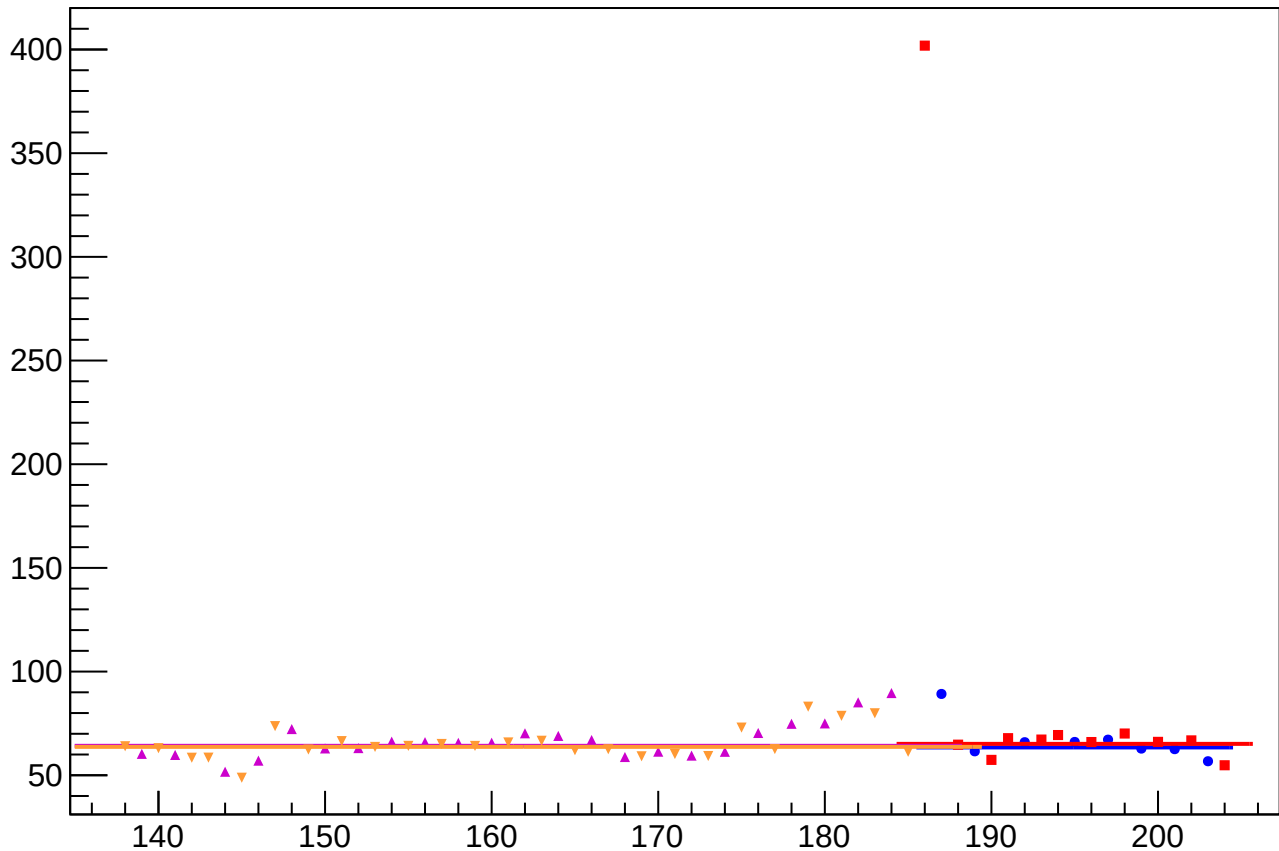
Right: -23.955 ± 18.386 $\chi^2/\text{NDF}: 21.5/18$

In: 2.101 ± 13.445 $\chi^2/\text{NDF}: 22.1/30$

Out: -10.345 ± 12.821 $\chi^2/\text{NDF}: 59.5/35$

All: -4.417 ± 9.279 $\chi^2/\text{NDF}: 82.0/66$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 63.415 $\pm$ 0.019 χ^2 /NDF: 58288.2/7

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 65.134 $\pm$ 0.018 χ^2 /NDF: 600549.9/10

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

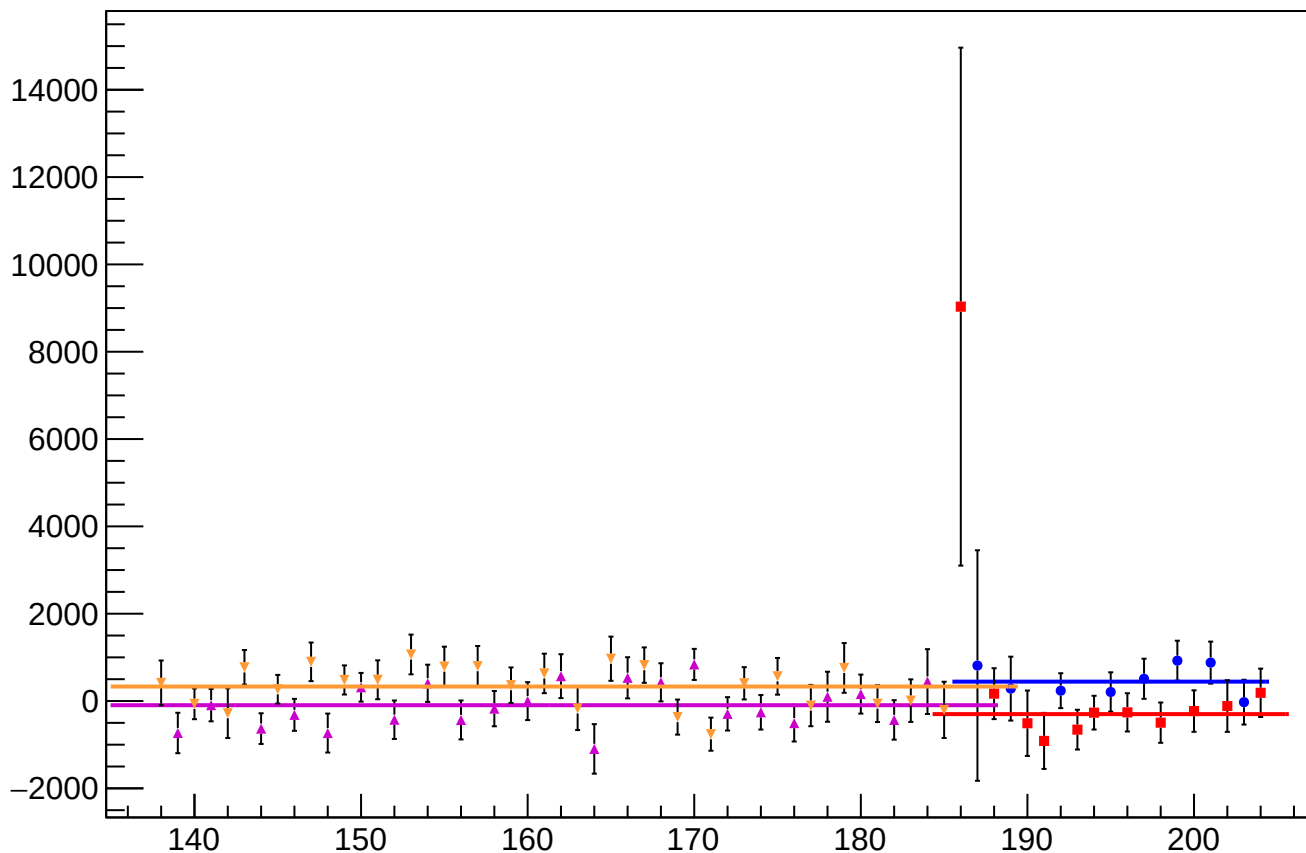
Right: 64.344 $\pm$ 0.013 χ^2 /NDF: 663181.2/18

In: 63.999 $\pm$ 0.010 χ^2 /NDF: 489188.2/30

Out: 64.074 $\pm$ 0.009 χ^2 /NDF: 1053865.1/35

All: 64.038 $\pm$ 0.007 χ^2 /NDF: 1543086.0/66

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 444.181+/-180.062 χ^2/NDF : 3.4/7

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -299.652+/-159.871 χ^2/NDF : 5.8/10

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

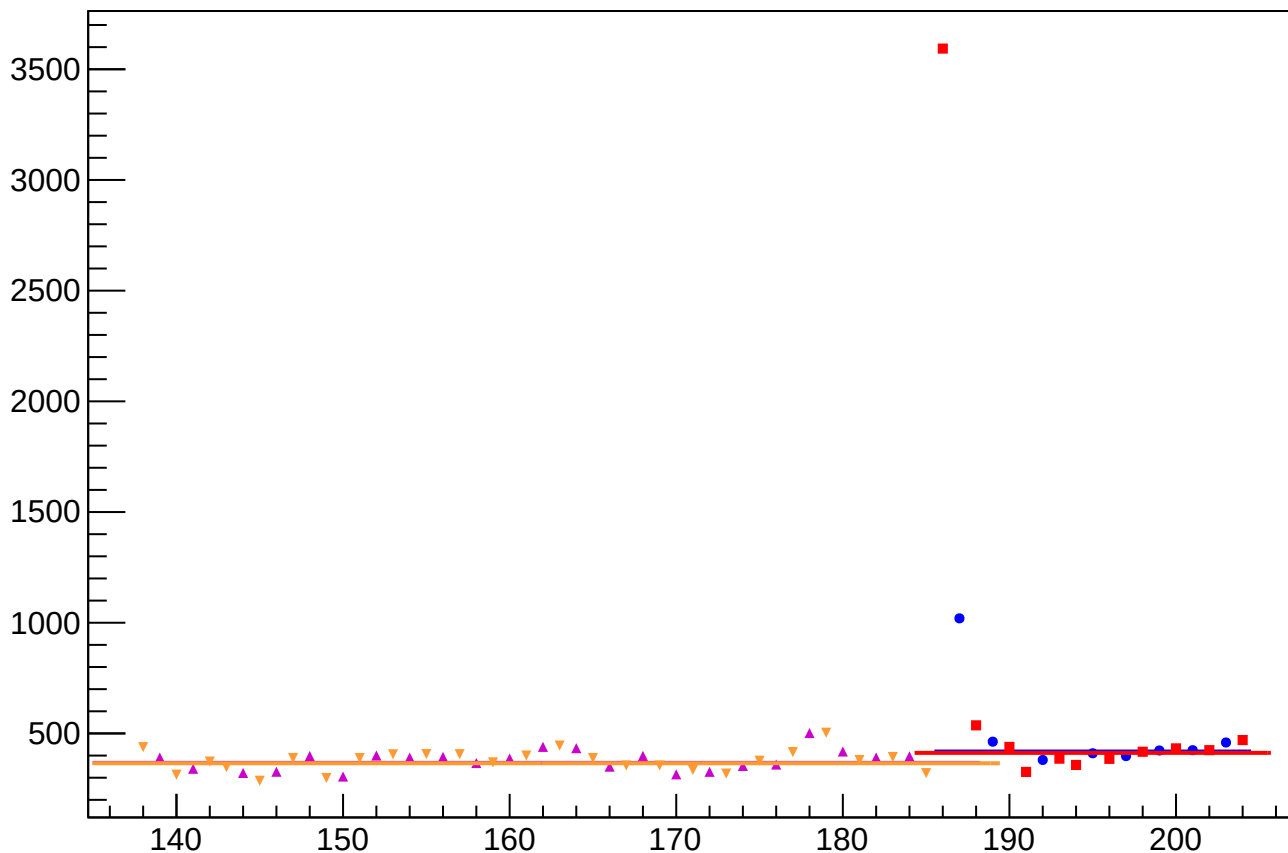
Right: 28.238+/-119.550 χ^2/NDF : 18.8/18

In: 9.473+/-79.538 χ^2/NDF : 39.3/30

Out: 189.855+/-75.786 χ^2/NDF : 47.8/35

All: 104.019+/-54.867 χ^2/NDF : 89.8/66

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 418.255+/-0.127 χ^2/NDF : 147065.0/7

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 412.212+/-0.113 χ^2/NDF : 785522.1/10

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

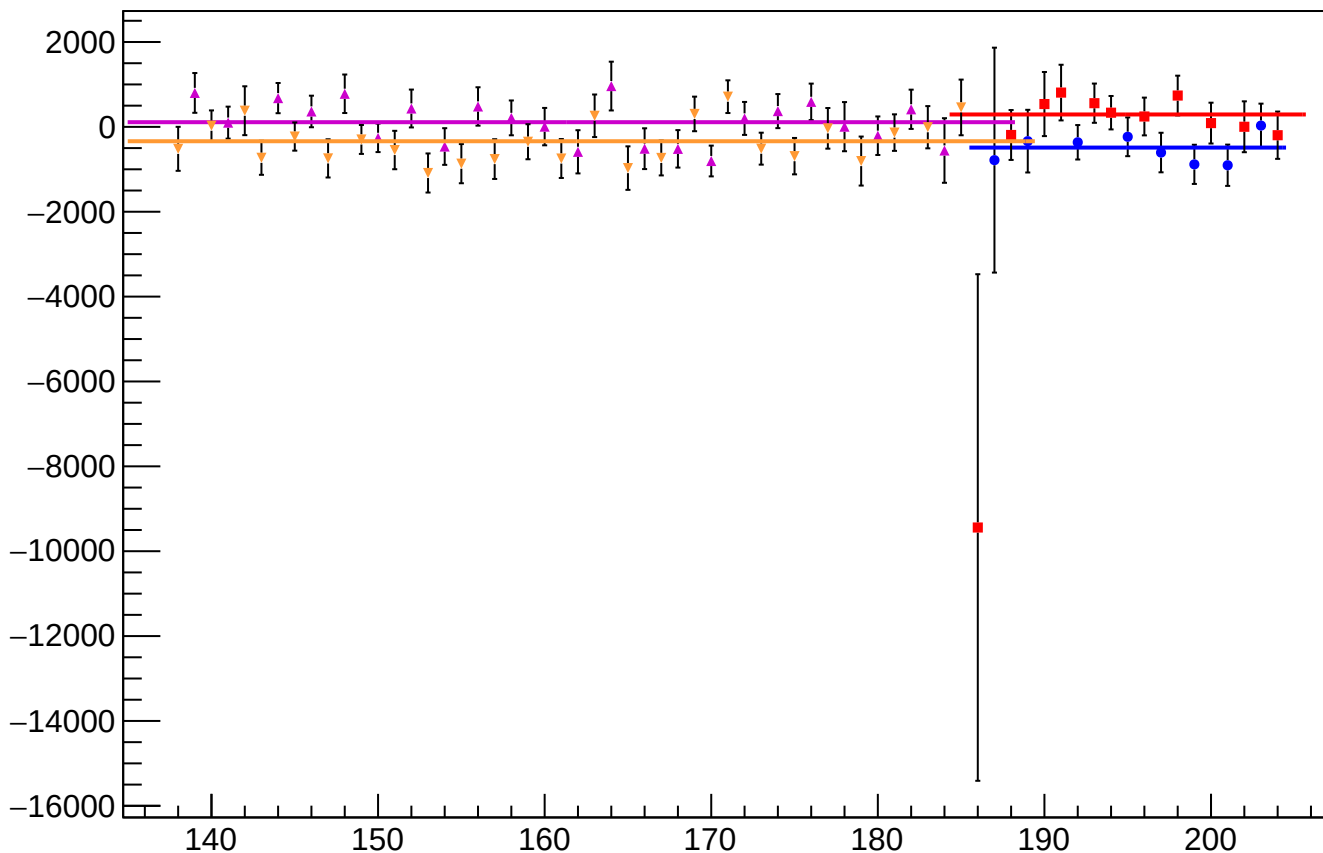
Right: 414.876+/-0.085 χ^2/NDF : 933847.0/18

In: 376.940+/-0.056 χ^2/NDF : 755964.5/30

Out: 375.885+/-0.054 χ^2/NDF : 1537170.5/35

All: 376.387+/-0.039 χ^2/NDF : 2293319.6/66

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -488.016 $\pm$ 182.278 χ^2 /NDF: 3.0/7

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 292.393 $\pm$ 162.109 χ^2 /NDF: 6.5/10

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

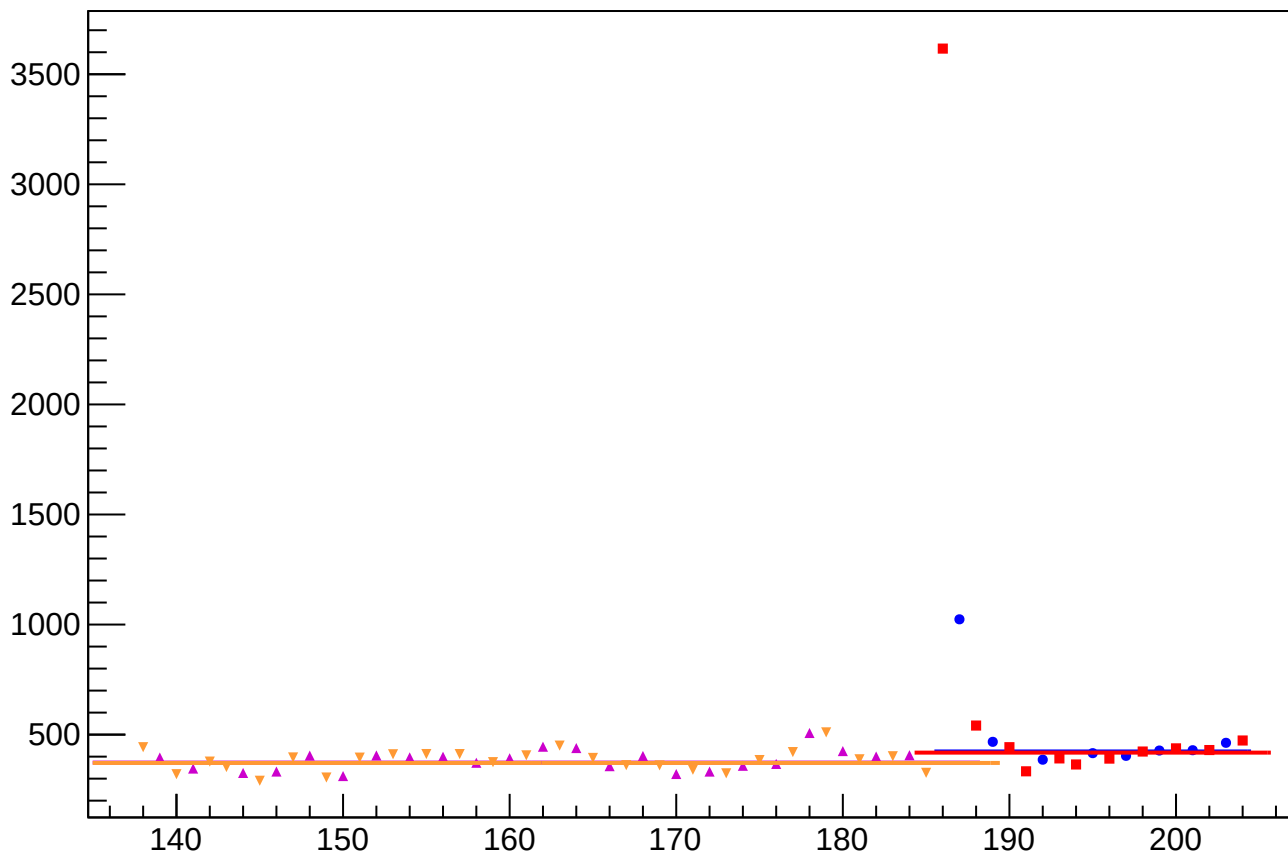
Right: -52.262 $\pm$ 121.134 χ^2 /NDF: 19.7/18

In: -7.116 $\pm$ 80.760 χ^2 /NDF:40.9/30

Out: -196.311 $\pm$ 76.966 χ^2 /NDF:46.4/35

All: -106.262 $\pm$ 55.716 χ^2 /NDF: 90.2/66

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 423.526+/-0.129 χ^2/NDF : 142866.6/7

Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24

Right Out: 418.239+/-0.115 χ^2/NDF : 772430.3/10

Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

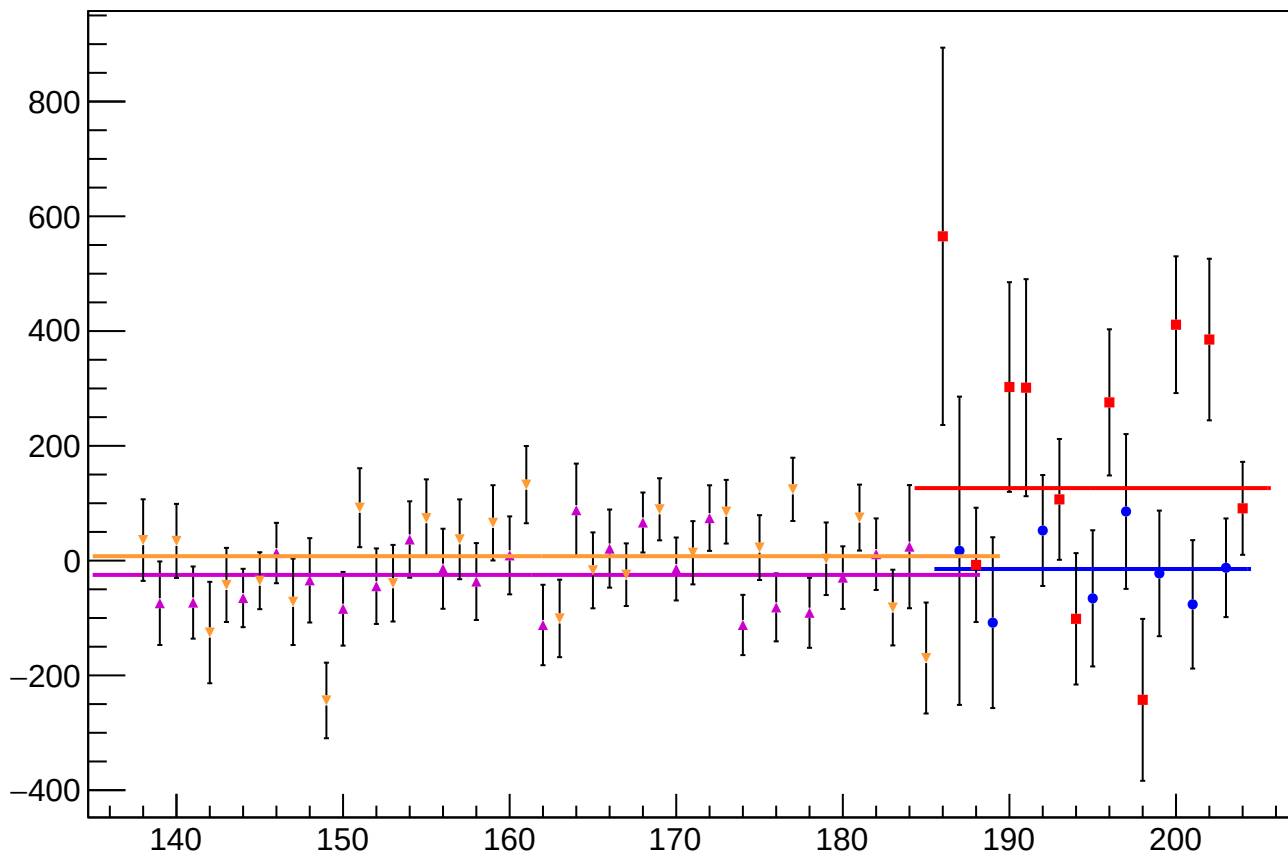
Right: 420.574+/-0.086 χ^2/NDF : 916236.6/18

In: 382.868+/-0.057 χ^2/NDF : 734018.5/30

Out: 381.924+/-0.054 χ^2/NDF : 1506072.6/35

All: 382.373+/-0.039 χ^2/NDF : 2240234.5/66

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -14.592 ± 41.145 $\chi^2/\text{NDF}: 1.9/7$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 126.371 ± 37.275 $\chi^2/\text{NDF}: 26.9/10$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

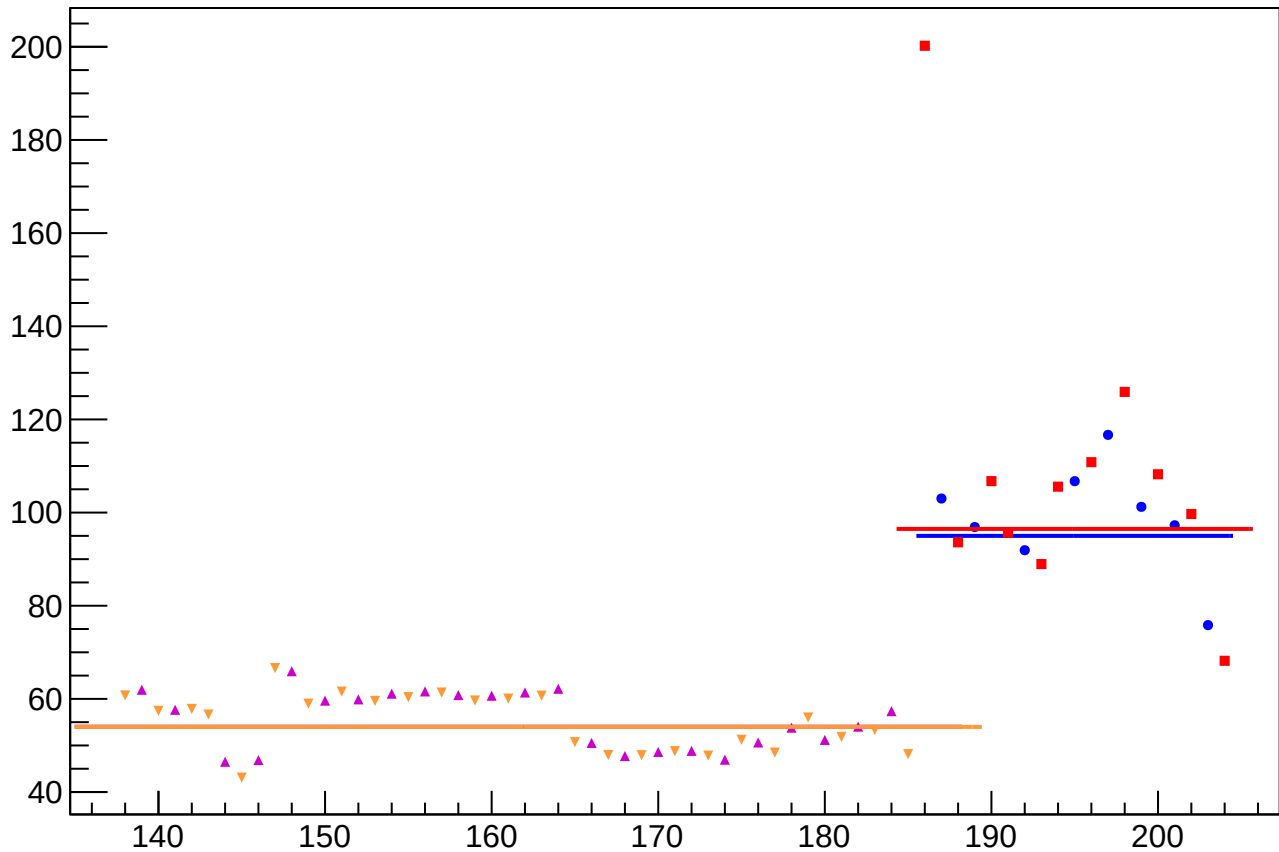
Right: 62.829 ± 27.624 $\chi^2/\text{NDF}: 35.2/18$

In: -23.949 ± 12.421 $\chi^2/\text{NDF}: 21.7/30$

Out: 19.987 ± 11.984 $\chi^2/\text{NDF}: 81.4/35$

All: -1.194 ± 8.624 $\chi^2/\text{NDF}: 109.6/66$

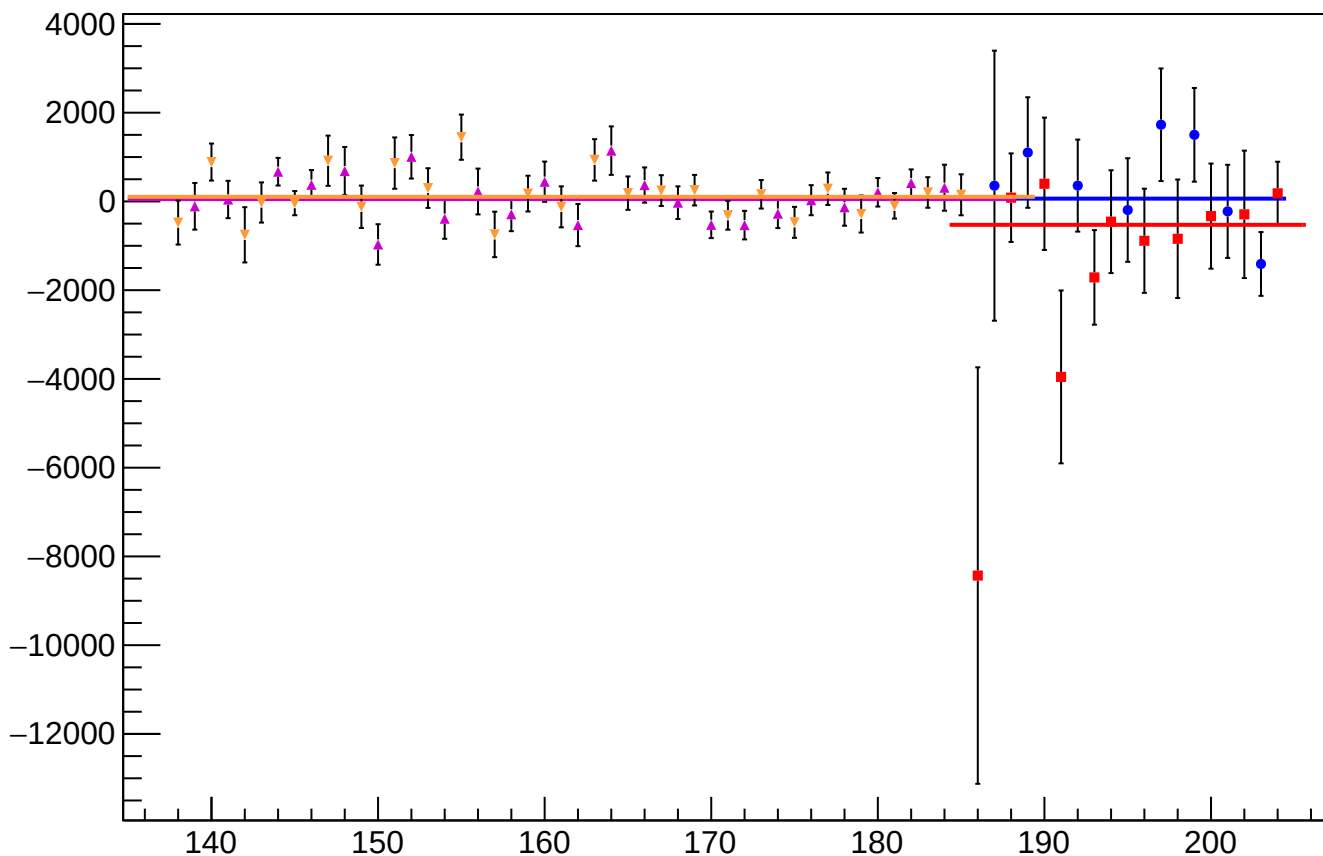
reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 95.000 +/- 0.029 χ^2/NDF : 182120.8/7
 Left Out: 53.984 +/- 0.009 χ^2/NDF : 458972.1/24
 Right Out: 96.491 +/- 0.026 χ^2/NDF : 607064.7/10
 Left In: 54.028 +/- 0.009 χ^2/NDF : 443819.5/22

Left: 54.005 +/- 0.006 χ^2/NDF : 902803.3/47
 Right: 95.819 +/- 0.020 χ^2/NDF : 790628.5/18
 In: 57.762 +/- 0.009 χ^2/NDF : 2428473.8/30
 Out: 58.377 +/- 0.008 χ^2/NDF : 3398153.5/35
 All: 58.081 +/- 0.006 χ^2/NDF : 5829172.4/66

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 63.241+/-384.091 χ^2 /NDF: 8.7/7

Left Out: 103.768+/-79.344 χ^2 /NDF:31.0/24

Right Out: -527.189+/-356.938 χ^2 /NDF: 9.1/10

Left In: 53.493+/-81.201 χ^2 /NDF:34.1/22

Left: 79.212+/-56.750 χ^2 /NDF: 65.3/47

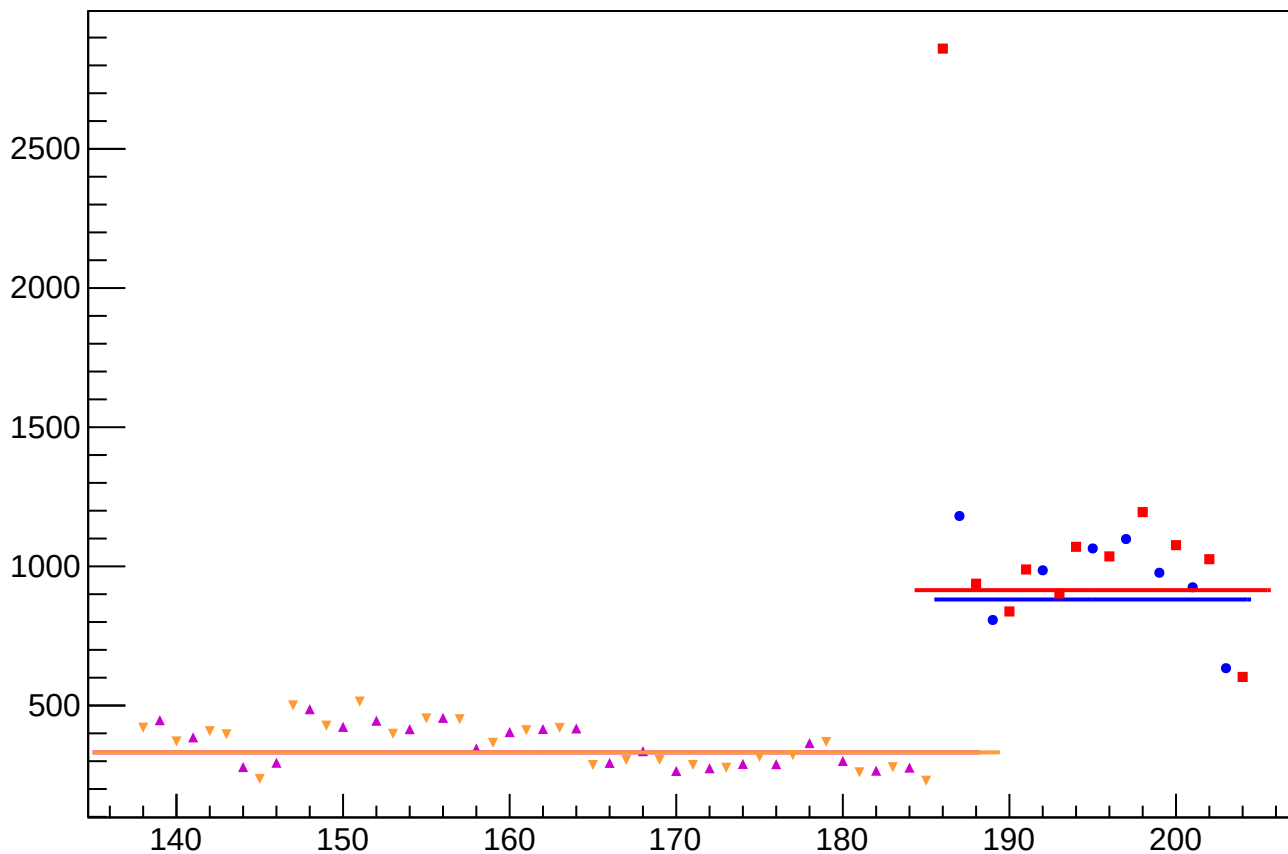
Right: -253.579+/-261.466 χ^2 /NDF: 19.1/18

In: 53.910+/-79.445 χ^2 /NDF:42.8/30

Out: 74.058+/-77.454 χ^2 /NDF:43.1/35

All: 64.240+/-55.459 χ^2 /NDF: 85.9/66

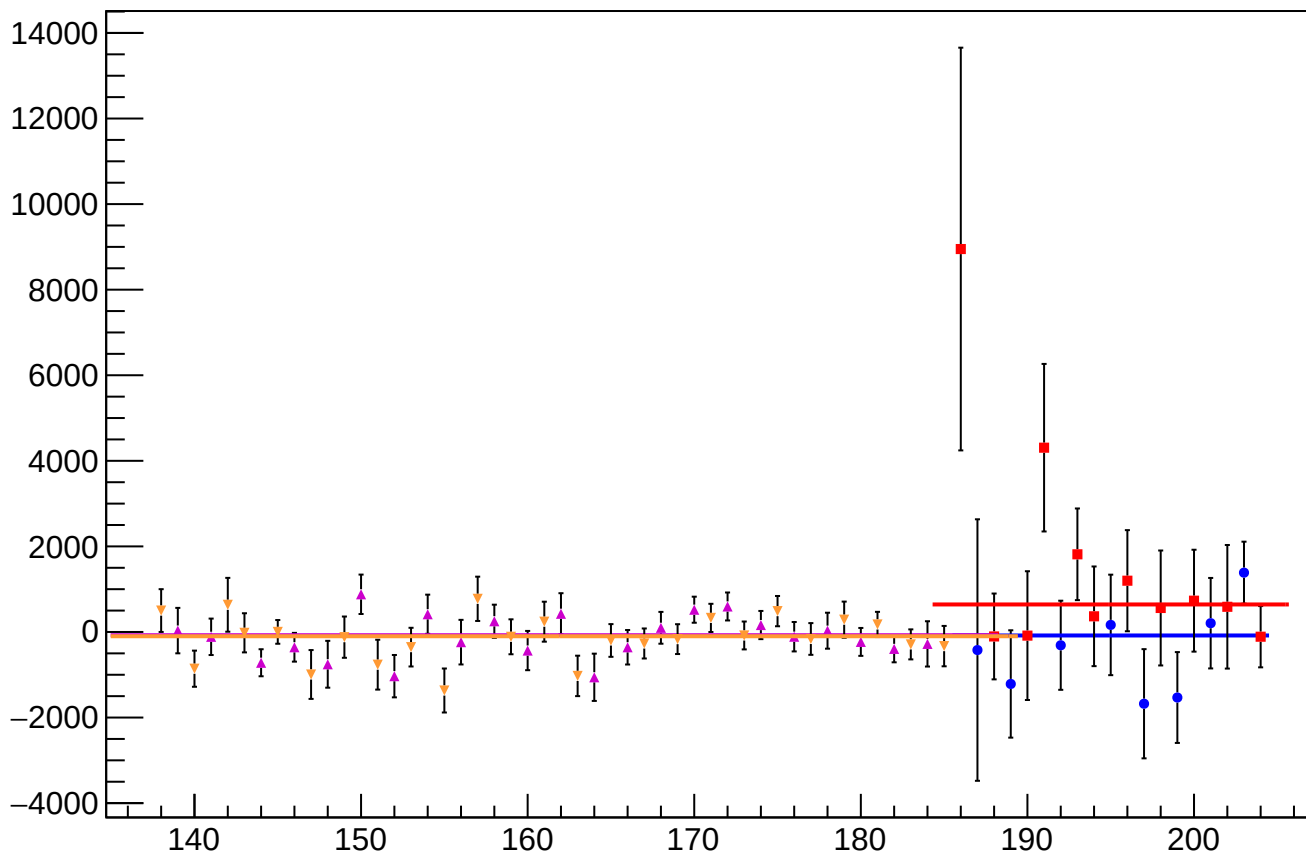
asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 880.993+/-0.272 χ^2/NDF : 410776.8/7
 Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24
 Right Out: 914.518+/-0.252 χ^2/NDF : 932770.8/10
 Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47
 Right: 898.982+/-0.185 χ^2/NDF : 1351723.8/18
 In: 355.167+/-0.056 χ^2/NDF : 5629902.0/30
 Out: 359.210+/-0.055 χ^2/NDF : 7724432.0/35
 All: 357.240+/-0.039 χ^2/NDF : 13356989.0/60

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -81.761 ± 386.557 χ^2/NDF : 8.5/7

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 643.164 ± 359.082 χ^2/NDF : 10.0/10

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

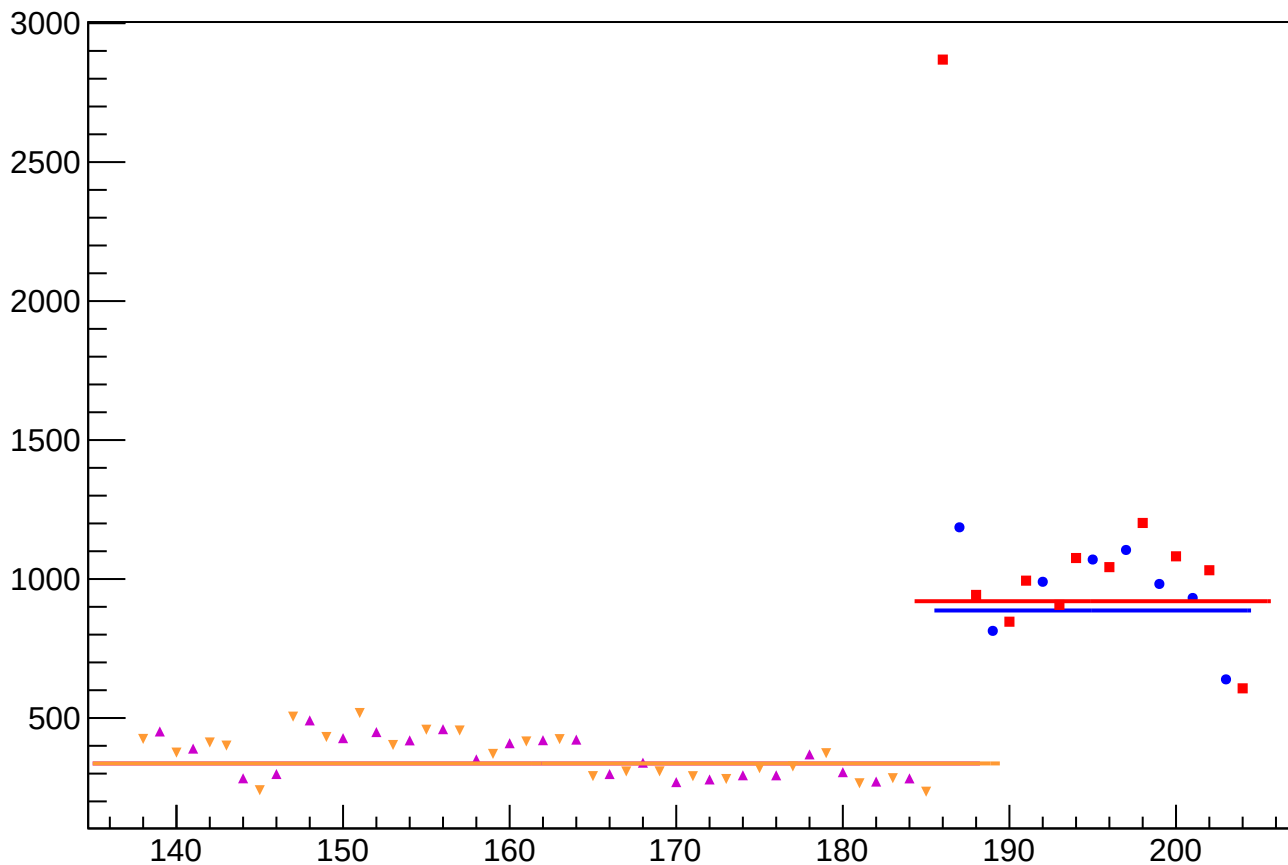
Right: 307.377 ± 263.087 χ^2/NDF : 20.4/18

In: -75.847 ± 80.513 χ^2/NDF : 40.6/30

Out: -64.293 ± 78.483 χ^2/NDF : 44.7/35

All: -69.923 ± 56.200 χ^2/NDF : 85.4/66

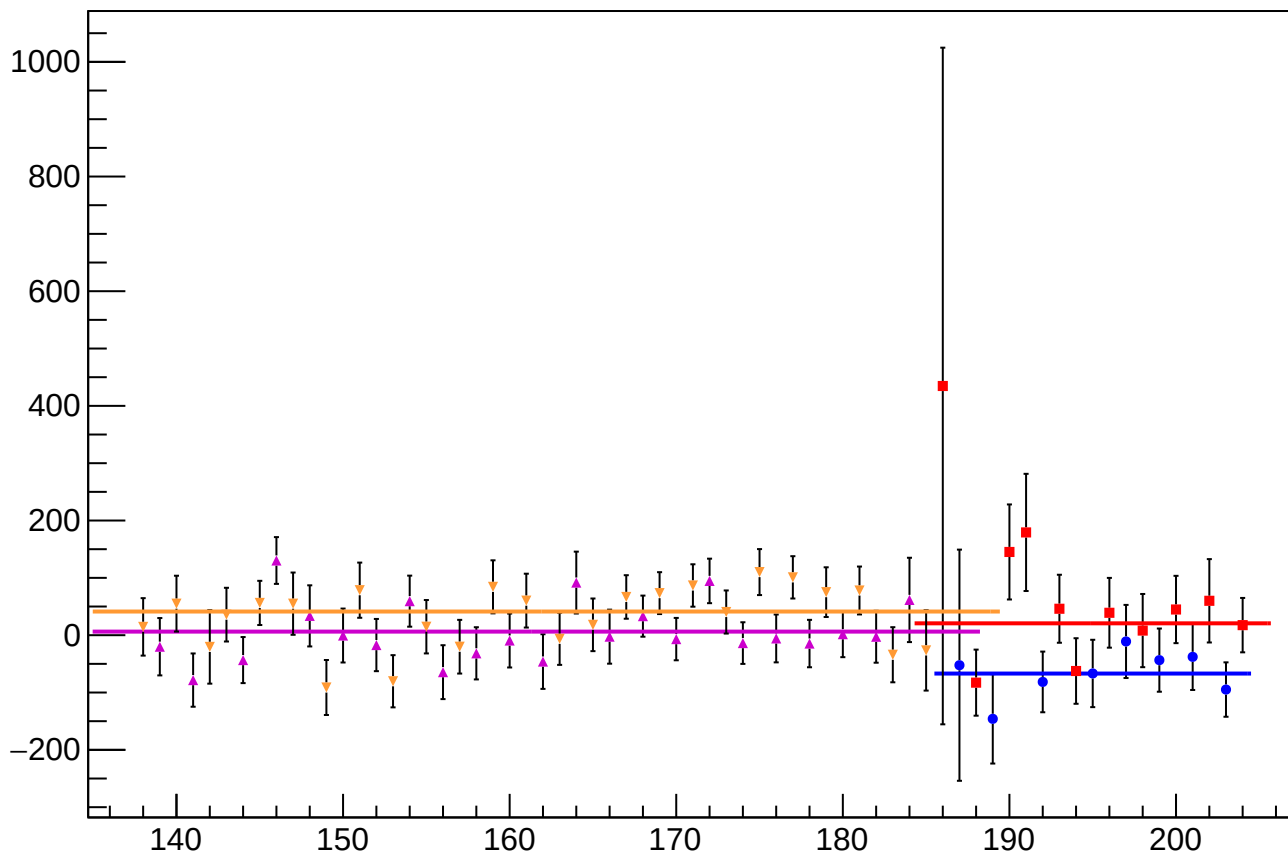
asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 886.831+/-0.273 χ^2/NDF : 406665.5/7
 Left Out: 336.557+/-0.057 χ^2/NDF : 1665919.4/24
 Right Out: 920.210+/-0.254 χ^2/NDF : 928757.7/10
 Left In: 336.439+/-0.058 χ^2/NDF : 1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47
 Right: 904.749+/-0.186 χ^2/NDF : 1343427.9/18
 In: 360.316+/-0.057 χ^2/NDF : 5554425.5/30
 Out: 364.439+/-0.055 χ^2/NDF : 7626123.9/35
 All: 362.431+/-0.040 χ^2/NDF : 13183238.6/60

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -66.915 ± 21.540 $\chi^2/\text{NDF}: 2.7/7$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 20.694 ± 19.708 $\chi^2/\text{NDF}: 11.3/10$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

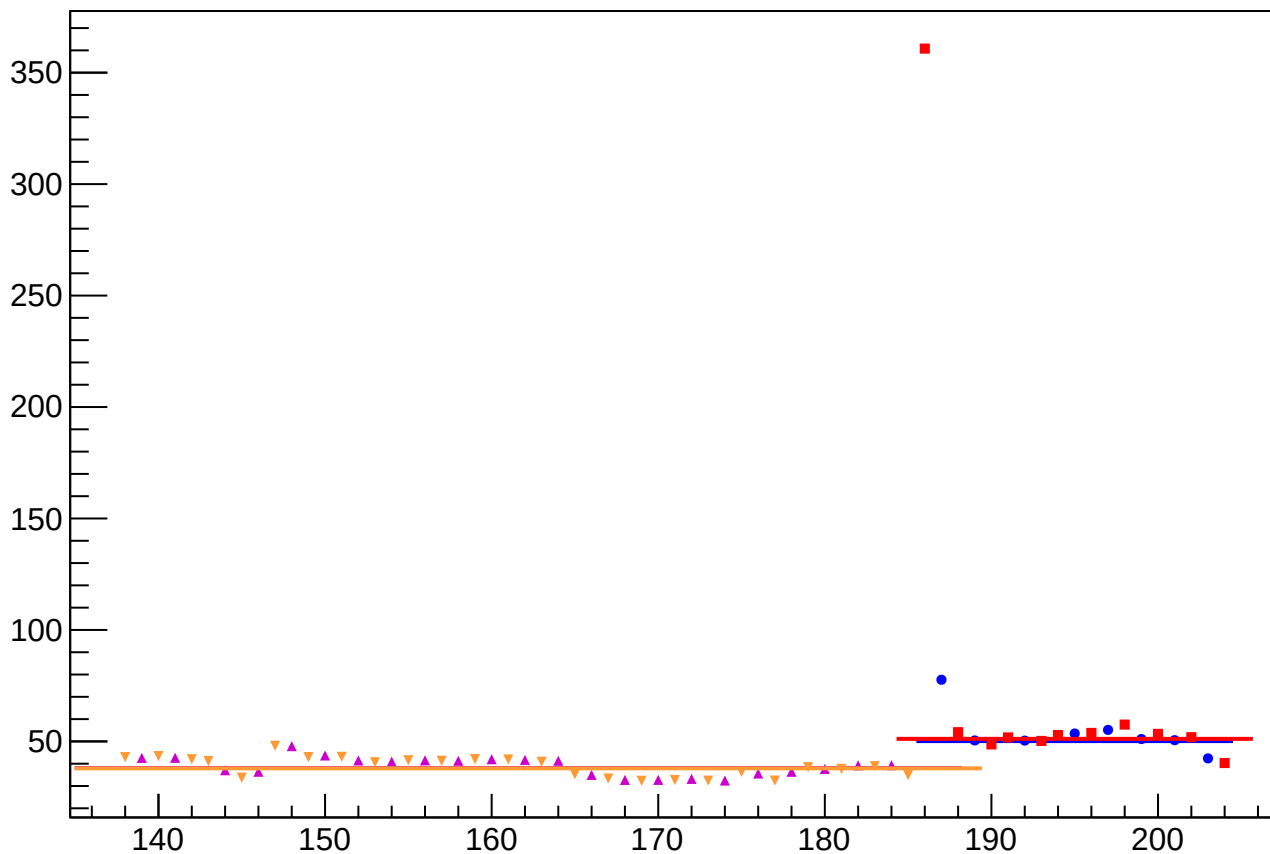
Right: -19.226 ± 14.540 $\chi^2/\text{NDF}: 22.9/18$

In: -4.982 ± 8.441 $\chi^2/\text{NDF}: 42.7/30$

Out: 37.803 ± 8.103 $\chi^2/\text{NDF}: 46.6/35$

All: 17.284 ± 5.846 $\chi^2/\text{NDF}: 102.6/66$

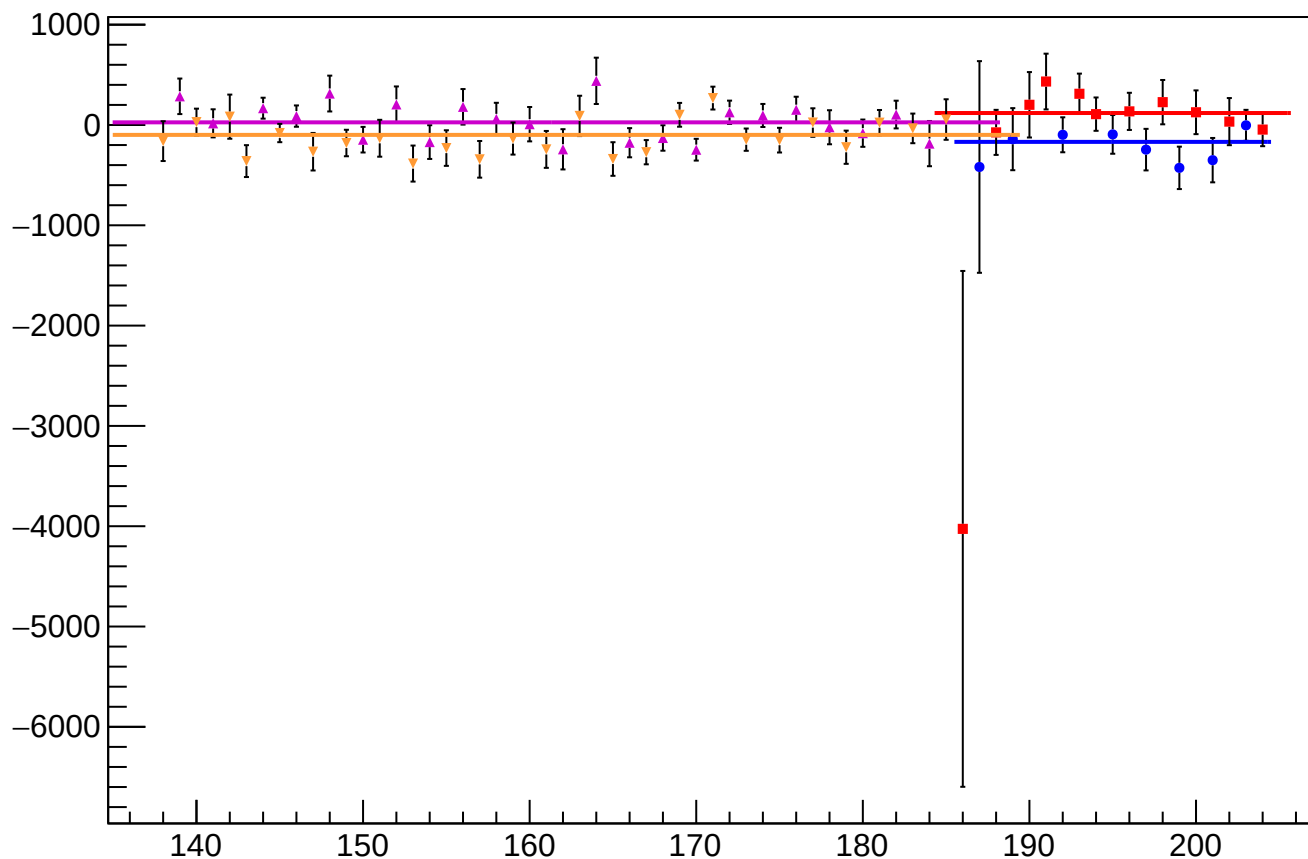
reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 50.142 $\pm$ 0.015 χ^2 /NDF: 110612.3/7
 Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24
 Right Out: 51.143 $\pm$ 0.014 χ^2 /NDF: 691733.1/10
 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: 50.687 $\pm$ 0.010 χ^2 /NDF: 804693.9/18
 In: 39.938 $\pm$ 0.006 χ^2 /NDF: 1037155.3/30
 Out: 40.160 $\pm$ 0.006 χ^2 /NDF: 1926338.5/35
 All: 40.053 $\pm$ 0.004 χ^2 /NDF: 2964208.1/66

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -168.412 $\pm$ 74.694 χ^2 /NDF: 3.8/7

Left Out: -98.741 $\pm$ 29.095 χ^2 /NDF:32.7/24

Right Out: 119.305 $\pm$ 66.141 χ^2 /NDF: 7.0/10

Left In: 26.223 $\pm$ 29.676 χ^2 /NDF:30.7/22

Left: -37.493 $\pm$ 20.776 χ^2 /NDF: 72.5/47

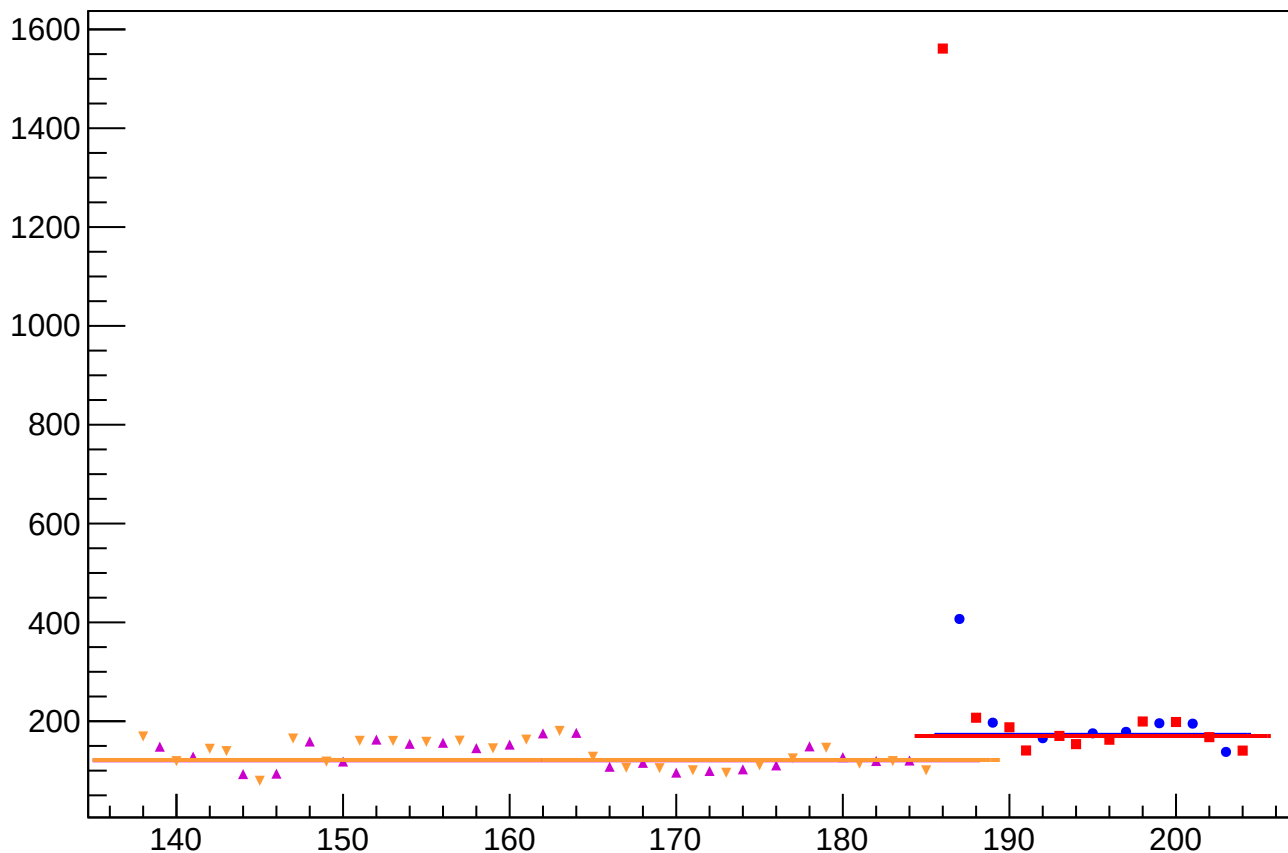
Right: -7.146 $\pm$ 49.518 χ^2 /NDF: 19.1/18

In: -0.311 $\pm$ 27.579 χ^2 /NDF:40.4/30

Out: -63.388 $\pm$ 26.632 χ^2 /NDF:48.8/35

All: -32.951 $\pm$ 19.158 χ^2 /NDF: 91.9/66

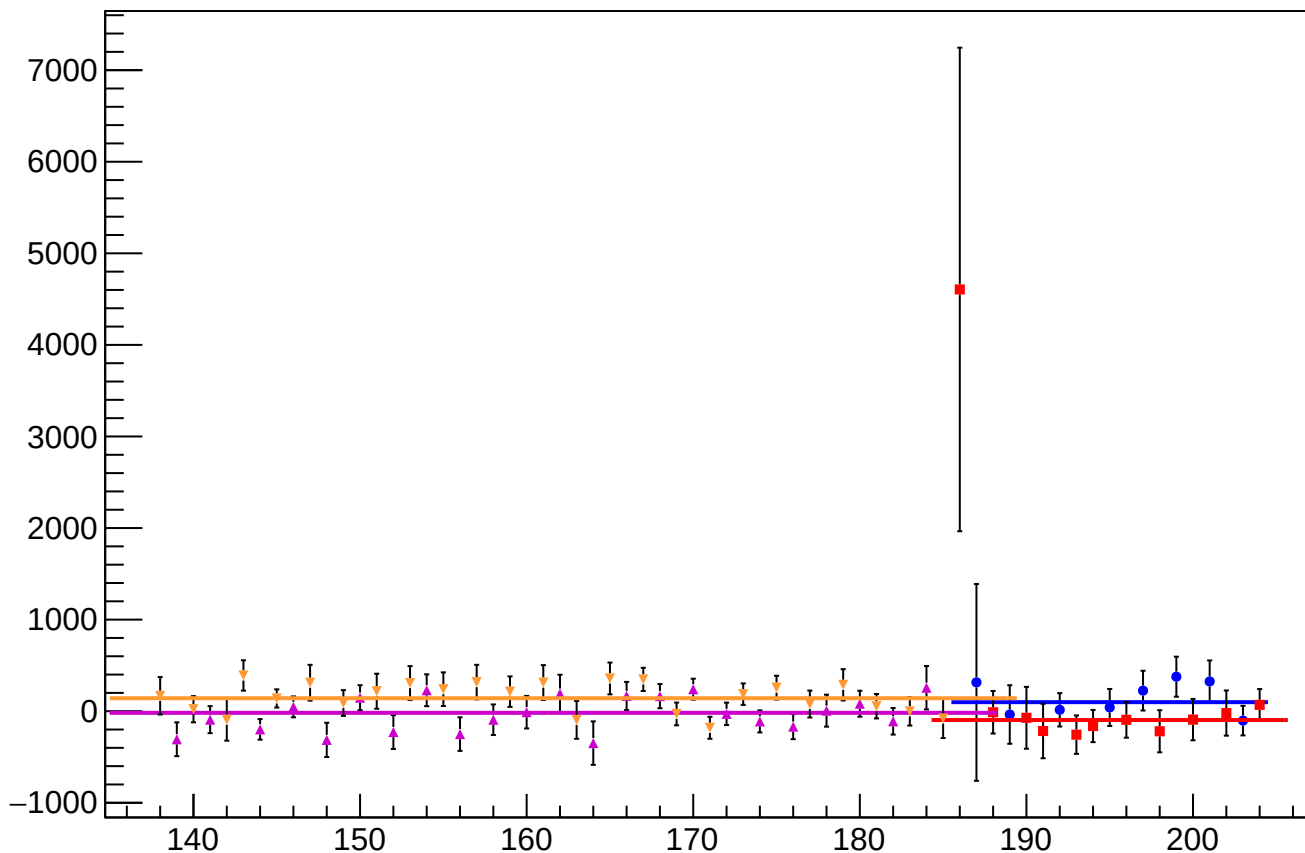
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 172.444+/-0.053 χ^2/NDF : 262403.4/7
 Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24
 Right Out: 170.054+/-0.047 χ^2/NDF : 823562.1/10
 Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47
 Right: 171.104+/-0.035 χ^2/NDF : 1087112.9/18
 In: 127.950+/-0.020 χ^2/NDF : 2466954.8/30
 Out: 129.449+/-0.019 χ^2/NDF : 3434607.2/35
 All: 128.726+/-0.014 χ^2/NDF : 5904620.6/66

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 98.815 $\pm$ 77.918 χ^2 /NDF: 5.0/7

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF: 26.9/24

Right Out: -96.245 $\pm$ 69.253 χ^2 /NDF: 5.5/10

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF: 30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

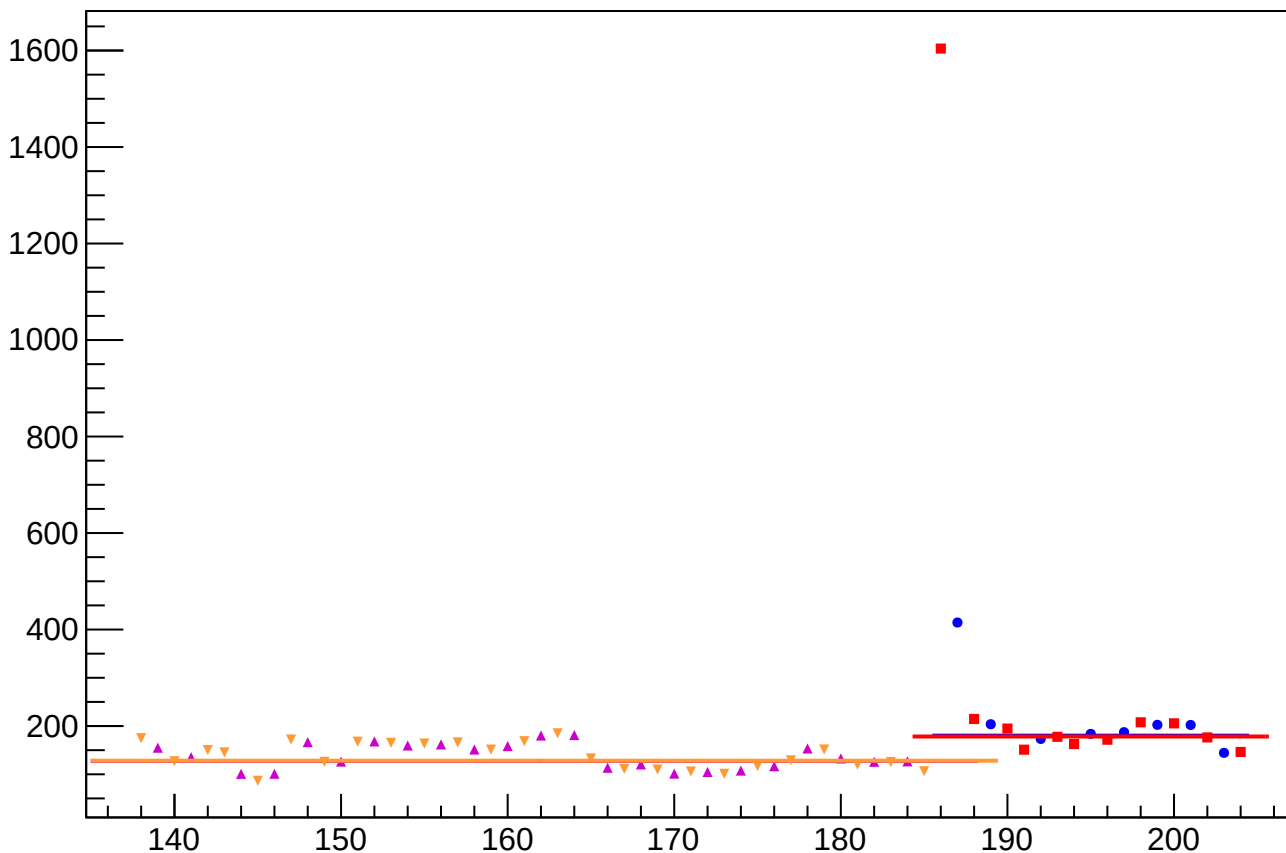
Right: -10.160 $\pm$ 51.763 χ^2 /NDF: 14.0/18

In: -1.574 $\pm$ 28.971 χ^2 /NDF: 37.1/30

Out: 103.150 $\pm$ 27.970 χ^2 /NDF: 42.3/35

All: 52.629 $\pm$ 20.122 χ^2 /NDF: 86.1/66

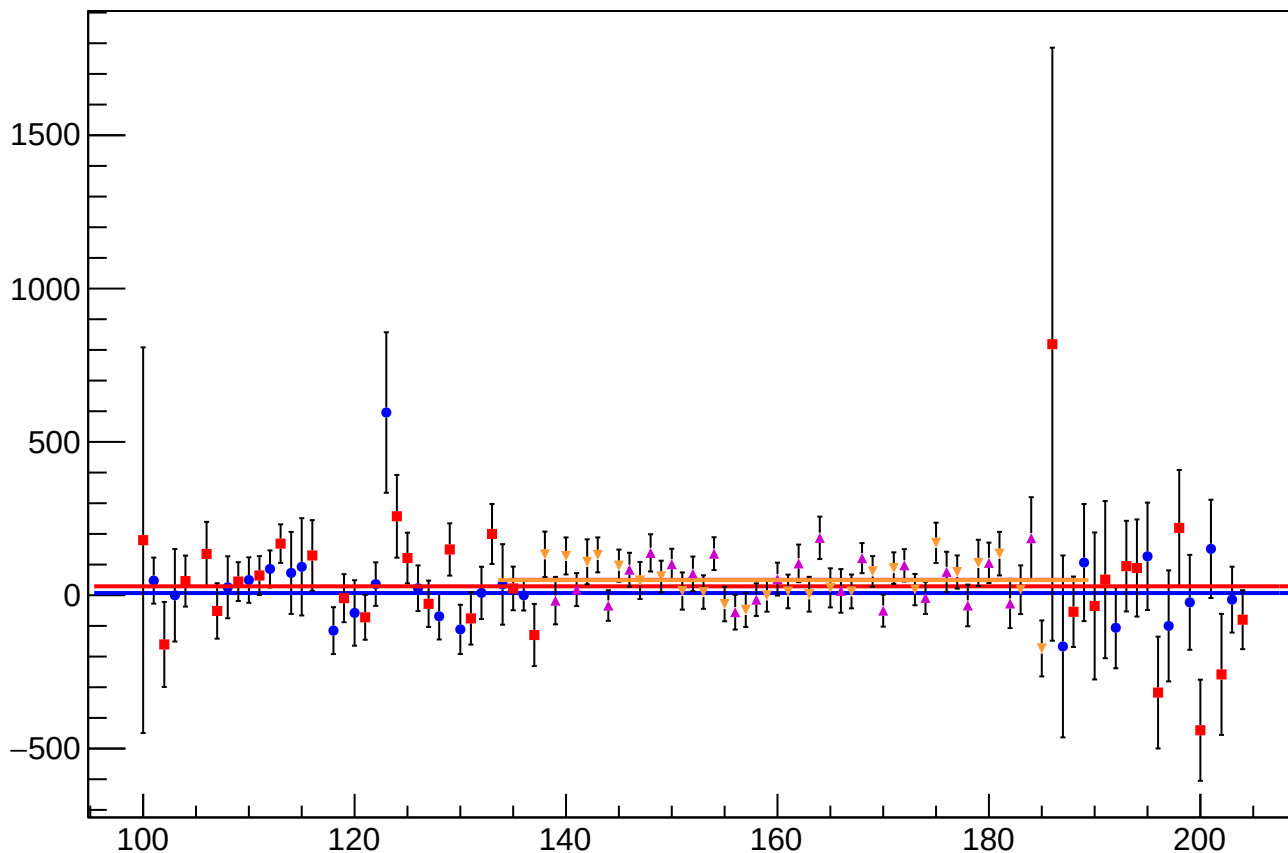
asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 180.056 $\pm$ 0.055 χ^2 /NDF: 249050.6/7
 Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24
 Right Out: 178.315 $\pm$ 0.049 χ^2 /NDF: 802535.3/10
 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: 179.084 $\pm$ 0.037 χ^2 /NDF: 1052143.6/18
 In: 134.803 $\pm$ 0.020 χ^2 /NDF:2267581.2/30
 Out: 136.354 $\pm$ 0.020 χ^2 /NDF:3212848.4/35
 All: 135.606 $\pm$ 0.014 χ^2 /NDF: 5483394.4/66

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 7.108 ± 18.963 $\chi^2/\text{NDF}: 17.4/24$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 29.092 ± 18.063 $\chi^2/\text{NDF}: 43.4/29$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

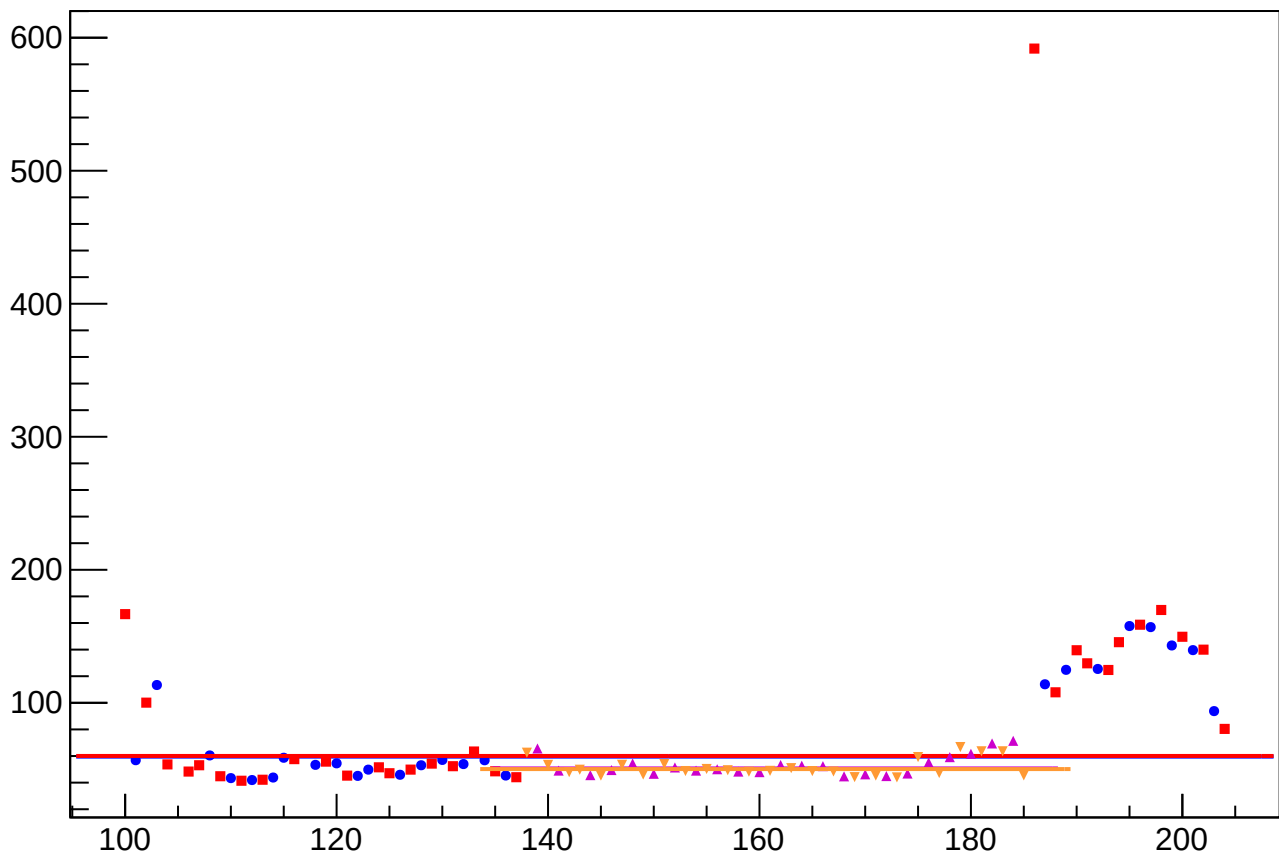
Right: 18.634 ± 13.079 $\chi^2/\text{NDF}: 61.5/54$

In: 37.599 ± 10.292 $\chi^2/\text{NDF}: 53.3/47$

Out: 43.323 ± 9.882 $\chi^2/\text{NDF}: 72.4/54$

All: 40.577 ± 7.128 $\chi^2/\text{NDF}: 125.8/102$

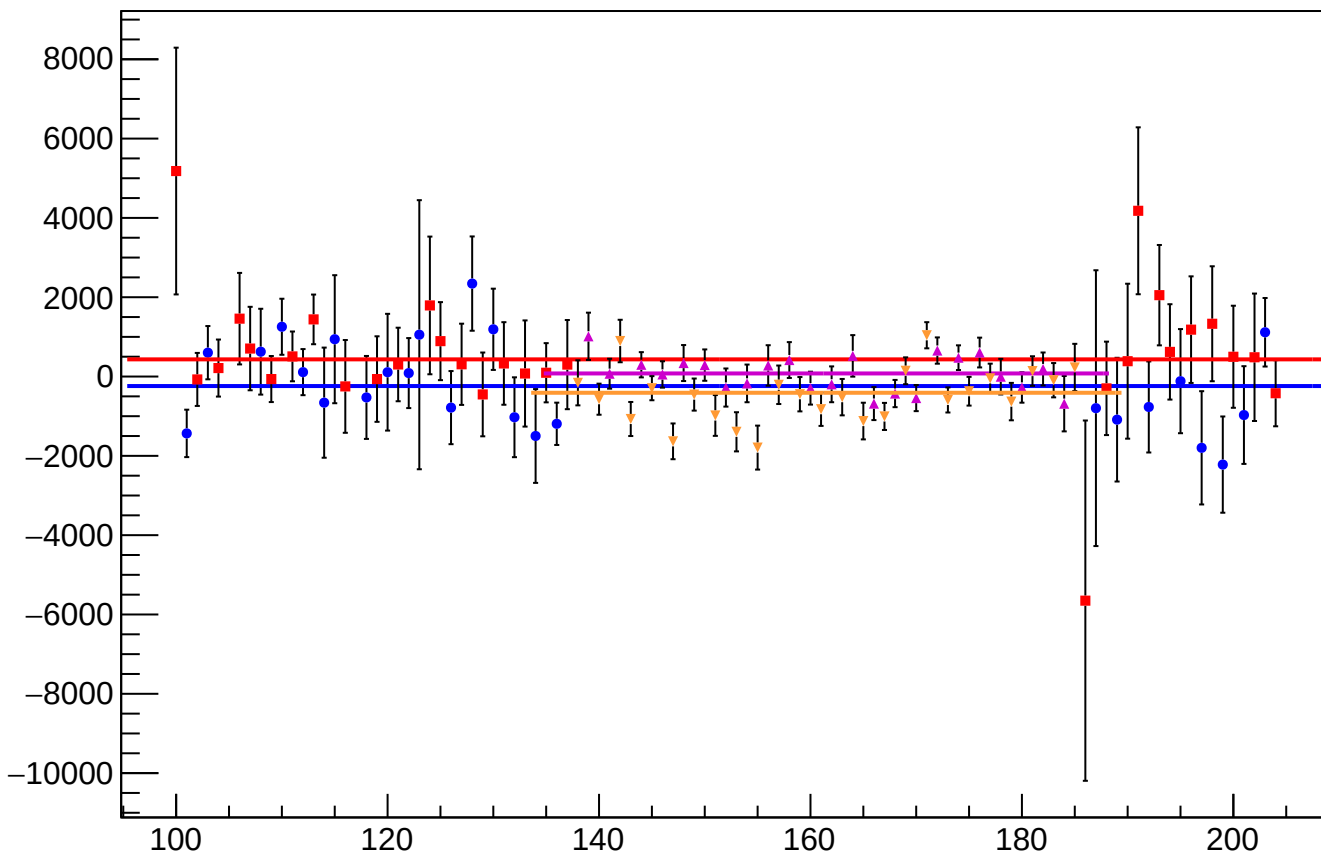
reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 59.573 $\pm$ 0.013 χ^2 /NDF: 4202485.5/24
 Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24
 Right Out: 60.051 $\pm$ 0.013 χ^2 /NDF: 5591261.1/29
 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: 59.824 $\pm$ 0.009 χ^2 /NDF: 9794414.5/54
 In: 53.302 $\pm$ 0.007 χ^2 /NDF: 4981856.8/47
 Out: 53.141 $\pm$ 0.007 χ^2 /NDF: 6476703.7/54
 All: 53.218 $\pm$ 0.005 χ^2 /NDF: 11458812.9/102

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -239.849 ± 190.582 χ^2/NDF : 31.2/24

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 433.016 ± 182.414 χ^2/NDF : 18.4/29

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

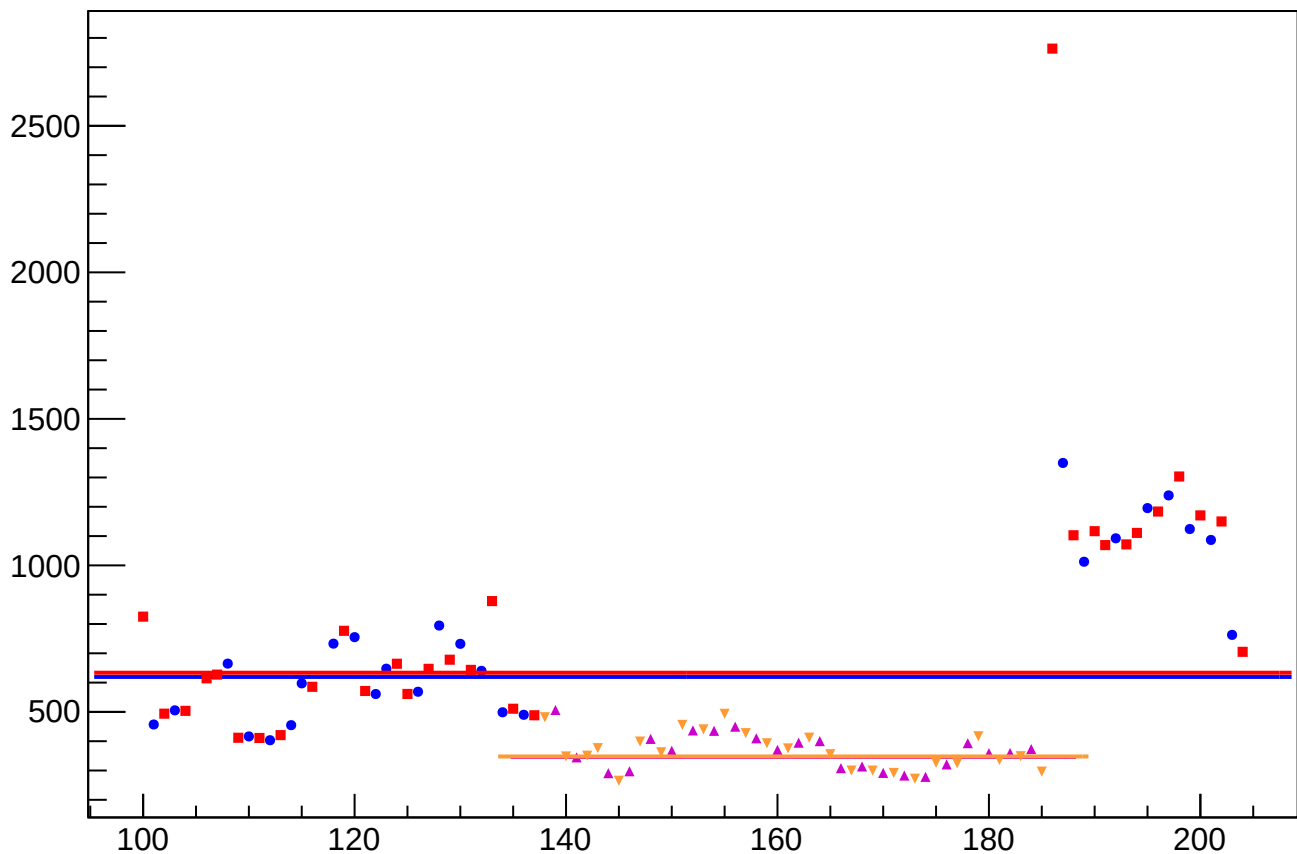
Right: 111.311 ± 131.779 χ^2/NDF : 56.1/54

In: 26.115 ± 76.920 χ^2/NDF : 58.4/47

Out: -266.589 ± 75.055 χ^2/NDF : 97.7/54

All: -123.829 ± 53.719 χ^2/NDF : 163.6/102

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 619.379 ± 0.135 $\chi^2/\text{NDF}: 2946121.1/24$

Left Out: 347.875 ± 0.058 $\chi^2/\text{NDF}: 1044096.7/24$

Right Out: 633.774 ± 0.129 $\chi^2/\text{NDF}: 4003697.1/29$

Left In: 345.954 ± 0.059 $\chi^2/\text{NDF}: 900847.0/22$

Left: 346.935 ± 0.042 $\chi^2/\text{NDF}: 1945476.7/47$

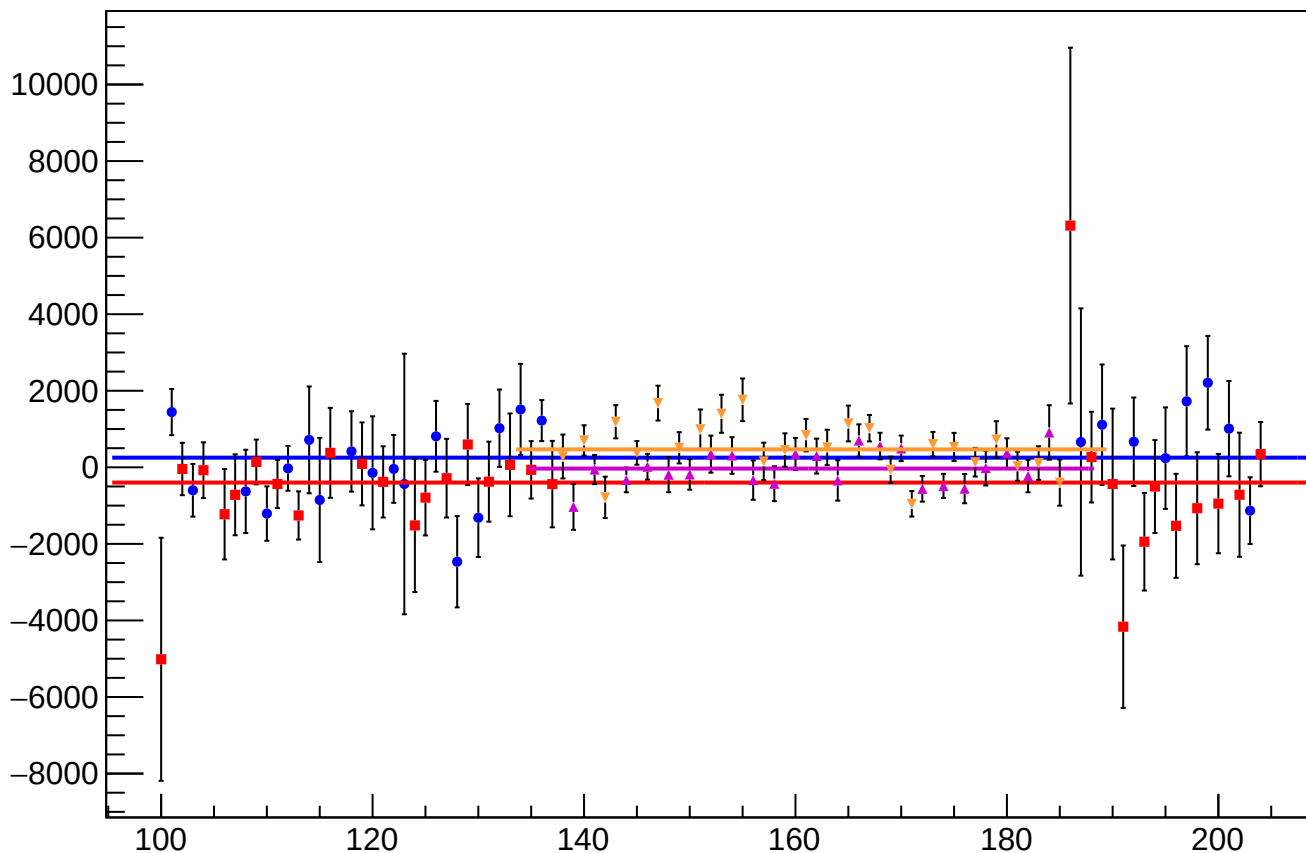
Right: 626.892 ± 0.093 $\chi^2/\text{NDF}: 6955773.2/54$

In: 390.495 ± 0.054 $\chi^2/\text{NDF}: 7293003.7/47$

Out: 396.276 ± 0.053 $\chi^2/\text{NDF}: 9128970.3/54$

All: 393.456 ± 0.038 $\chi^2/\text{NDF}: 16427761.3/100$

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 252.509 $\pm$ 191.967 χ^2 /NDF: 31.2/24

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -398.387 $\pm$ 183.830 χ^2 /NDF: 17.2/29

Left In: -32.801 $\pm$ 85.064 χ^2 /NDF:25.7/22

Left: 223.299 $\pm$ 59.514 χ^2 /NDF: 100.9/47

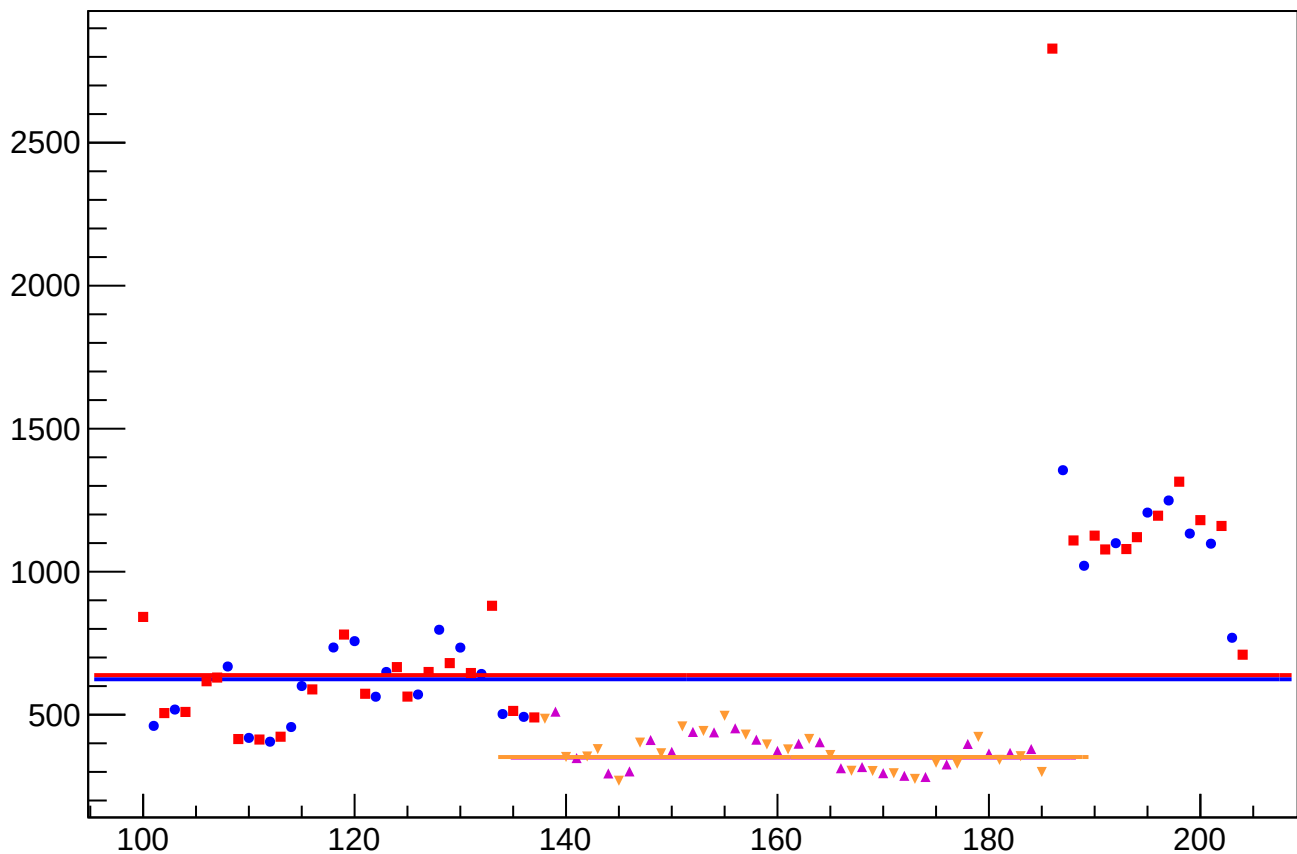
Right: -87.027 $\pm$ 132.771 χ^2 /NDF: 54.4/54

In: 14.025 $\pm$ 77.770 χ^2 /NDF:58.7/47

Out: 321.137 $\pm$ 75.870 χ^2 /NDF:93.2/54

All: 171.379 $\pm$ 54.308 χ^2 /NDF: 159.9/102

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 623.931 ± 0.136 $\chi^2/\text{NDF}: 2943559.1/24$

Left Out: 352.015 ± 0.059 $\chi^2/\text{NDF}: 1017195.6/24$

Right Out: 638.408 ± 0.130 $\chi^2/\text{NDF}: 4005874.4/29$

Left In: 350.160 ± 0.060 $\chi^2/\text{NDF}: 878380.0/22$

Left: 351.107 ± 0.042 $\chi^2/\text{NDF}: 1896060.8/47$

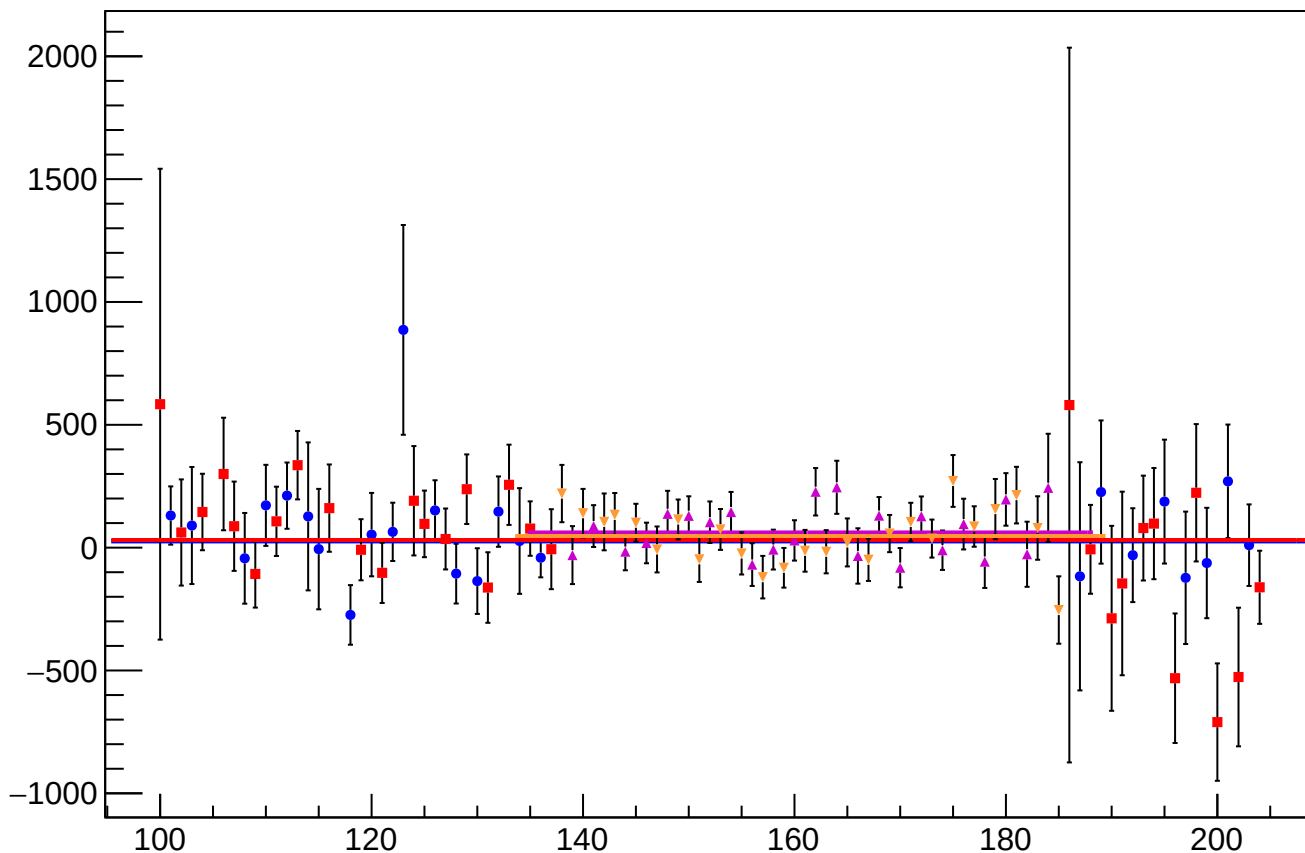
Right: 631.483 ± 0.094 $\chi^2/\text{NDF}: 6955366.8/54$

In: 395.093 ± 0.055 $\chi^2/\text{NDF}: 7222026.6/47$

Out: 400.798 ± 0.054 $\chi^2/\text{NDF}: 9050465.0/54$

All: 398.016 ± 0.038 $\chi^2/\text{NDF}: 16278006.7/100$

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 25.389 $\pm$ 31.917 χ^2 /NDF: 21.9/24

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 31.164 $\pm$ 31.390 χ^2 /NDF: 38.6/29

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

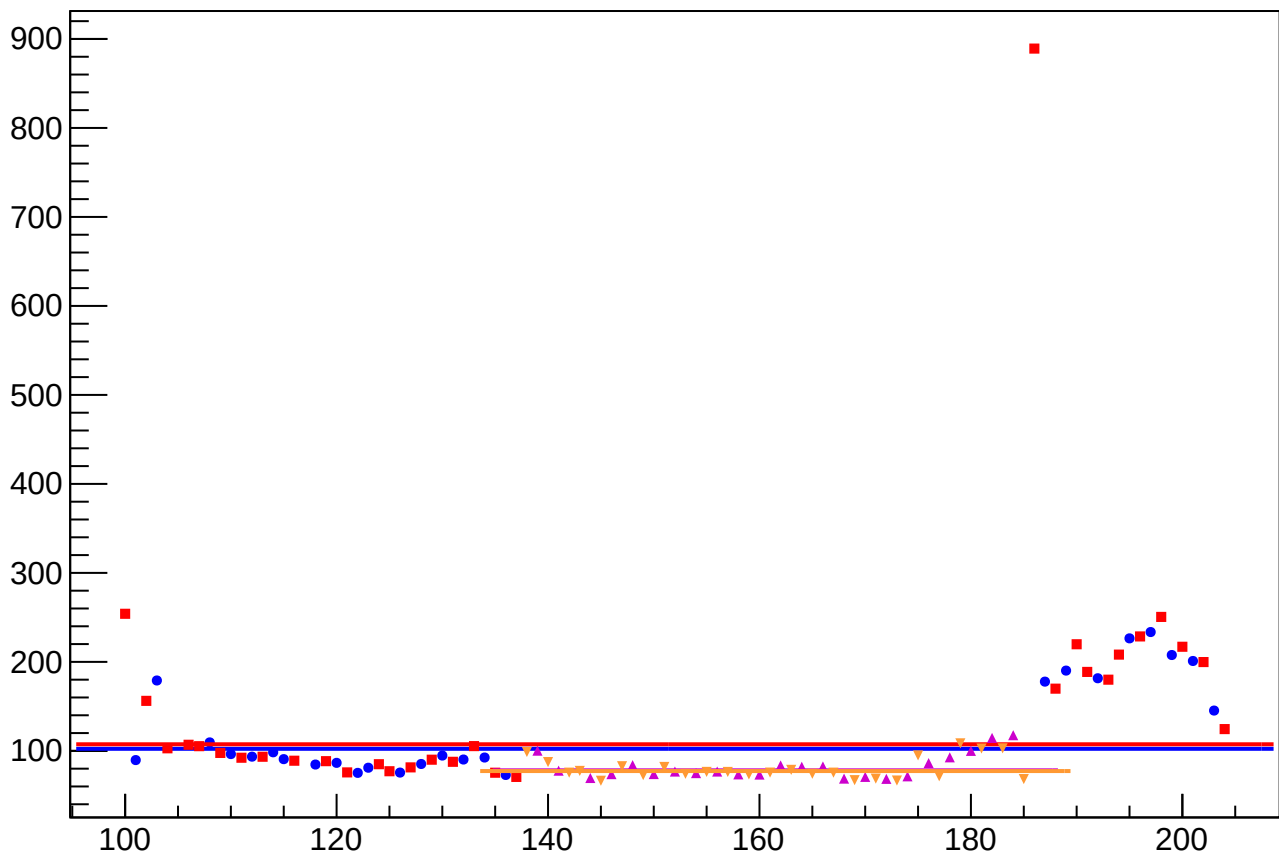
Right: 28.325 $\pm$ 22.380 χ^2 /NDF: 60.5/54

In: 52.326 $\pm$ 16.299 χ^2 /NDF:46.8/47

Out: 43.317 $\pm$ 15.779 χ^2 /NDF:68.2/54

All: 47.675 $\pm$ 11.337 χ^2 /NDF: 115.1/102

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 102.321+/-0.023 χ^2/NDF : 3324411.6/24

Left Out: 77.316+/-0.013 χ^2/NDF : 635622.3/24

Right Out: 107.408+/-0.022 χ^2/NDF : 4274422.3/29

Left In: 78.139+/-0.013 χ^2/NDF : 582108.1/22

Left: 77.712+/-0.009 χ^2/NDF : 1219684.1/47

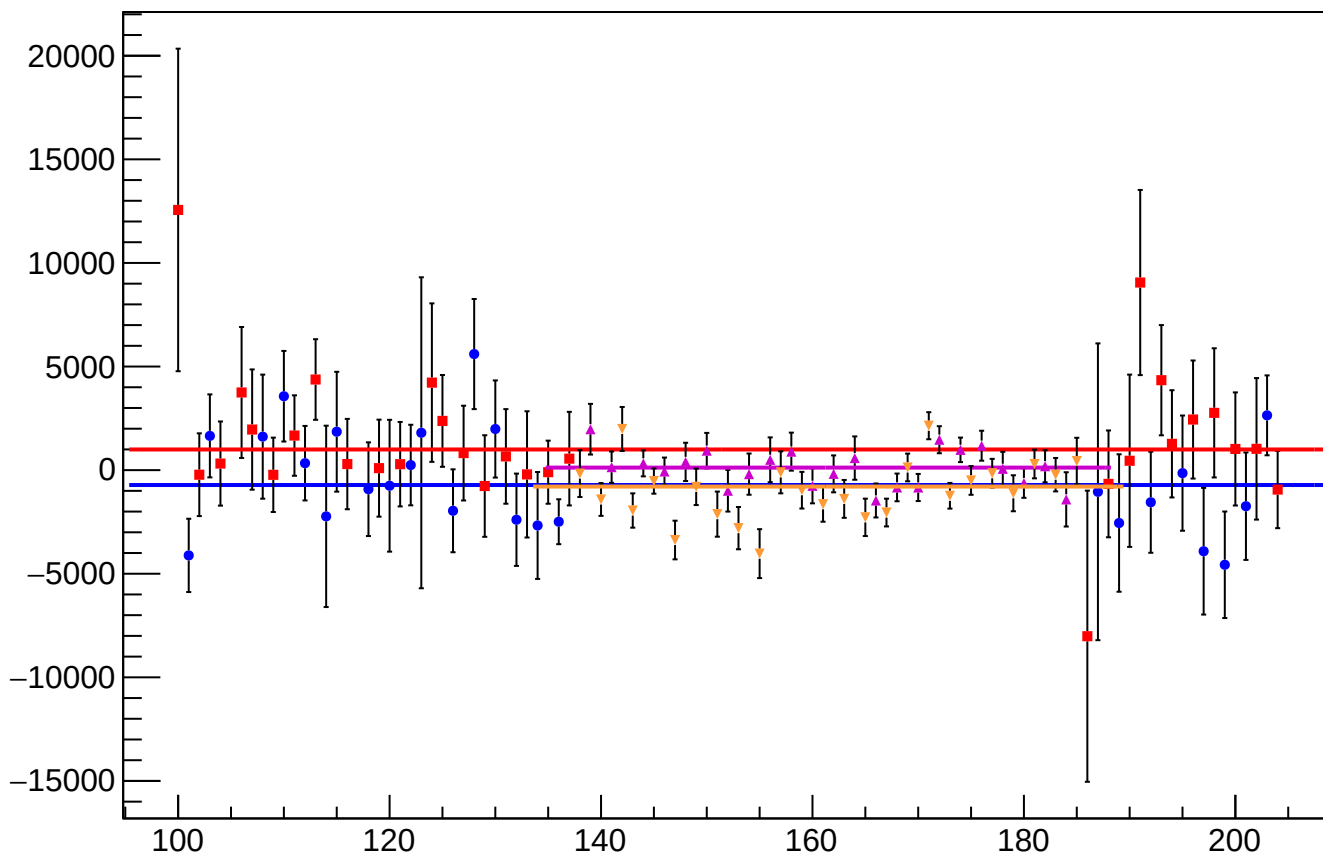
Right: 104.907+/-0.016 χ^2/NDF : 7624665.4/54

In: 84.445+/-0.012 χ^2/NDF : 4755176.7/47

Out: 84.920+/-0.011 χ^2/NDF : 6283630.1/54

All: 84.690+/-0.008 χ^2/NDF : 11039683.3/102

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -718.071 $\pm$ 456.069 χ^2/NDF : 29.3/24

Left Out: -792.776 $\pm$ 162.659 χ^2/NDF : 66.6/24

Right Out: 997.335 $\pm$ 444.434 χ^2/NDF : 18.5/29

Left In: 122.198 $\pm$ 166.193 χ^2/NDF : 25.9/22

Left: -345.122 $\pm$ 116.247 χ^2/NDF : 108.0/47

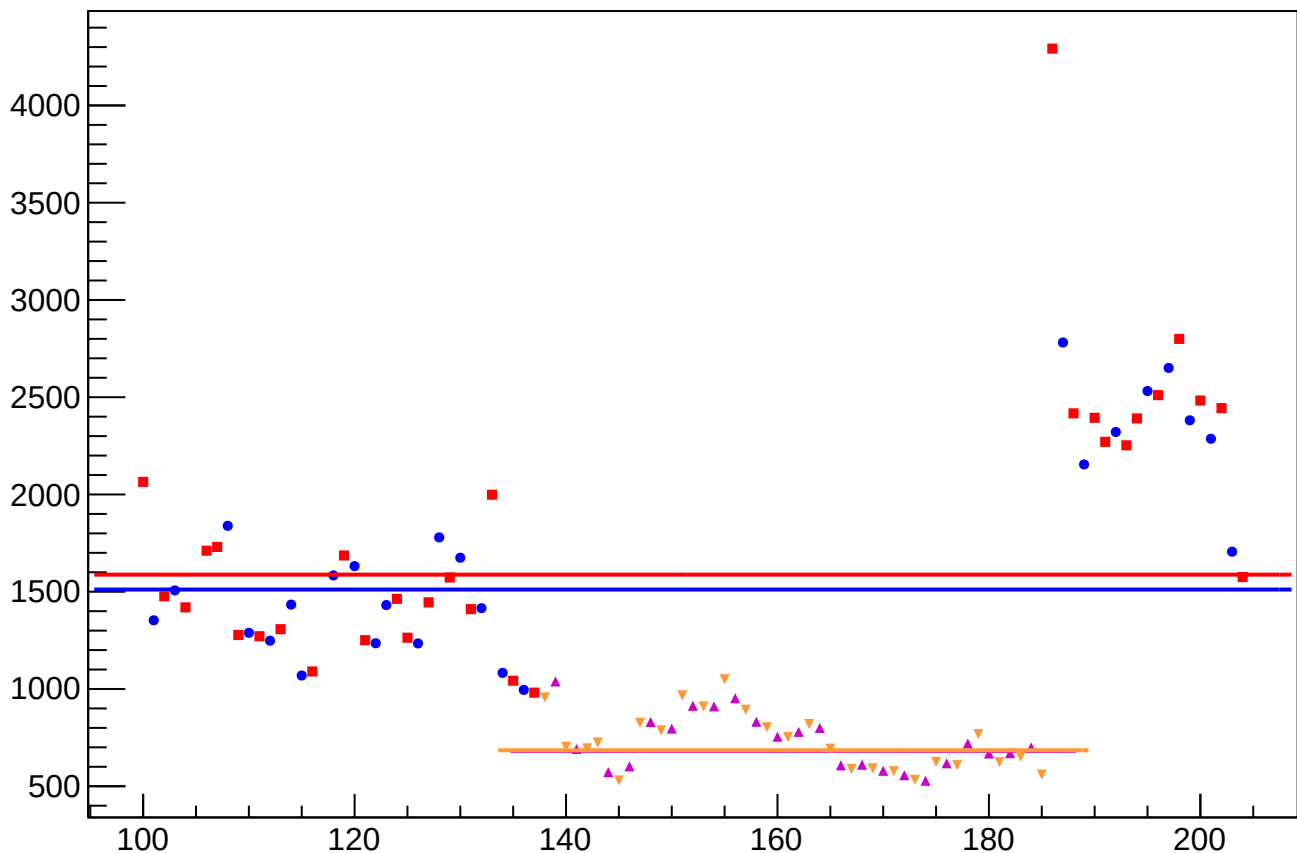
Right: 161.793 $\pm$ 318.296 χ^2/NDF : 55.1/54

In: 23.698 $\pm$ 156.149 χ^2/NDF : 58.3/47

Out: -581.316 $\pm$ 152.750 χ^2/NDF : 99.4/54

All: -285.466 $\pm$ 109.192 χ^2/NDF : 165.3/102

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1511.306+/-0.322 χ^2/NDF : 2110786.0/24

Left Out: 684.785+/-0.115 χ^2/NDF :1280146.2/24

Right Out: 1587.924+/-0.314 χ^2/NDF : 2650238.6/29

Left In: 681.712+/-0.118 χ^2/NDF :1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

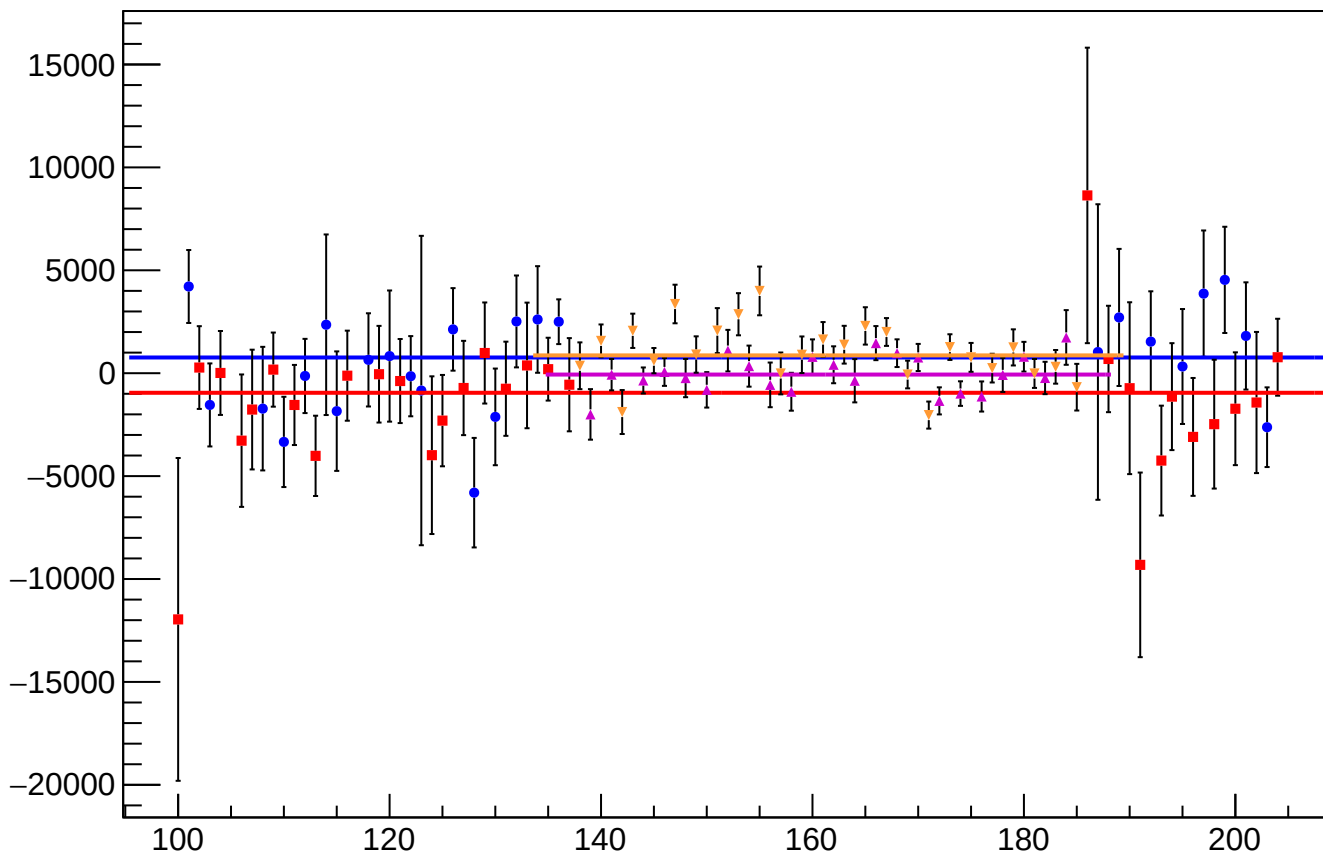
Right: 1550.605+/-0.225 χ^2/NDF : 4789976.6/54

In: 778.960+/-0.110 χ^2/NDF :9072272.5/47

Out: 791.470+/-0.108 χ^2/NDF :11213743.2/54

All: 785.353+/-0.077 χ^2/NDF : 20292574.5/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 763.552 $\pm$ 457.490 χ^2 /NDF: 29.3/24

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF: 62.8/24

Right Out: -951.397 $\pm$ 445.989 χ^2 /NDF: 17.9/29

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF: 26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

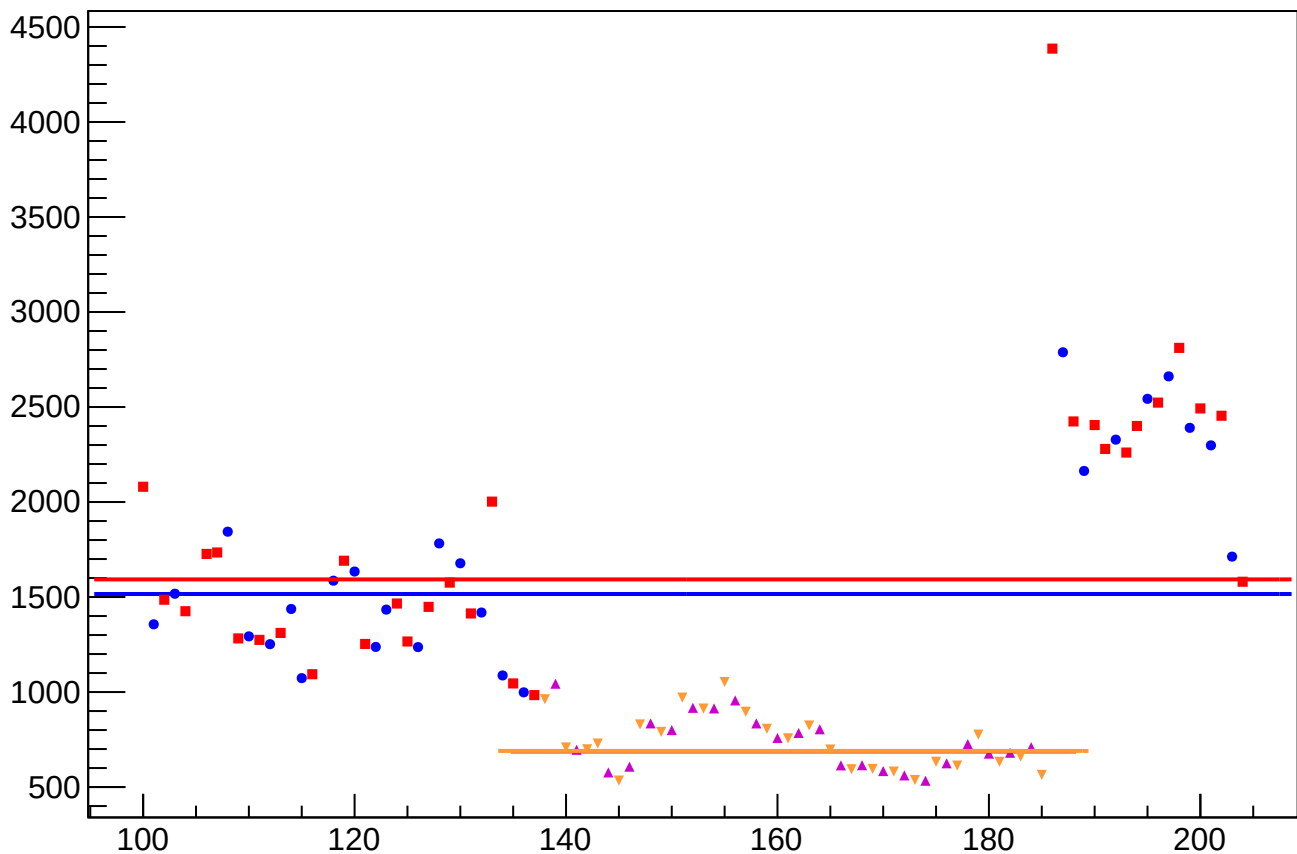
Right: -115.750 $\pm$ 319.350 χ^2 /NDF: 54.4/54

In: 32.108 $\pm$ 157.276 χ^2 /NDF: 58.6/47

Out: 649.435 $\pm$ 153.828 χ^2 /NDF: 95.3/54

All: 347.613 $\pm$ 109.972 χ^2 /NDF: 161.8/102

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1515.872 $\pm$ 0.323 χ^2 /NDF: 2115210.9/24

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF:1258158.2/24

Right Out: 1592.786 $\pm$ 0.315 χ^2 /NDF: 2662912.1/29

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF:1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

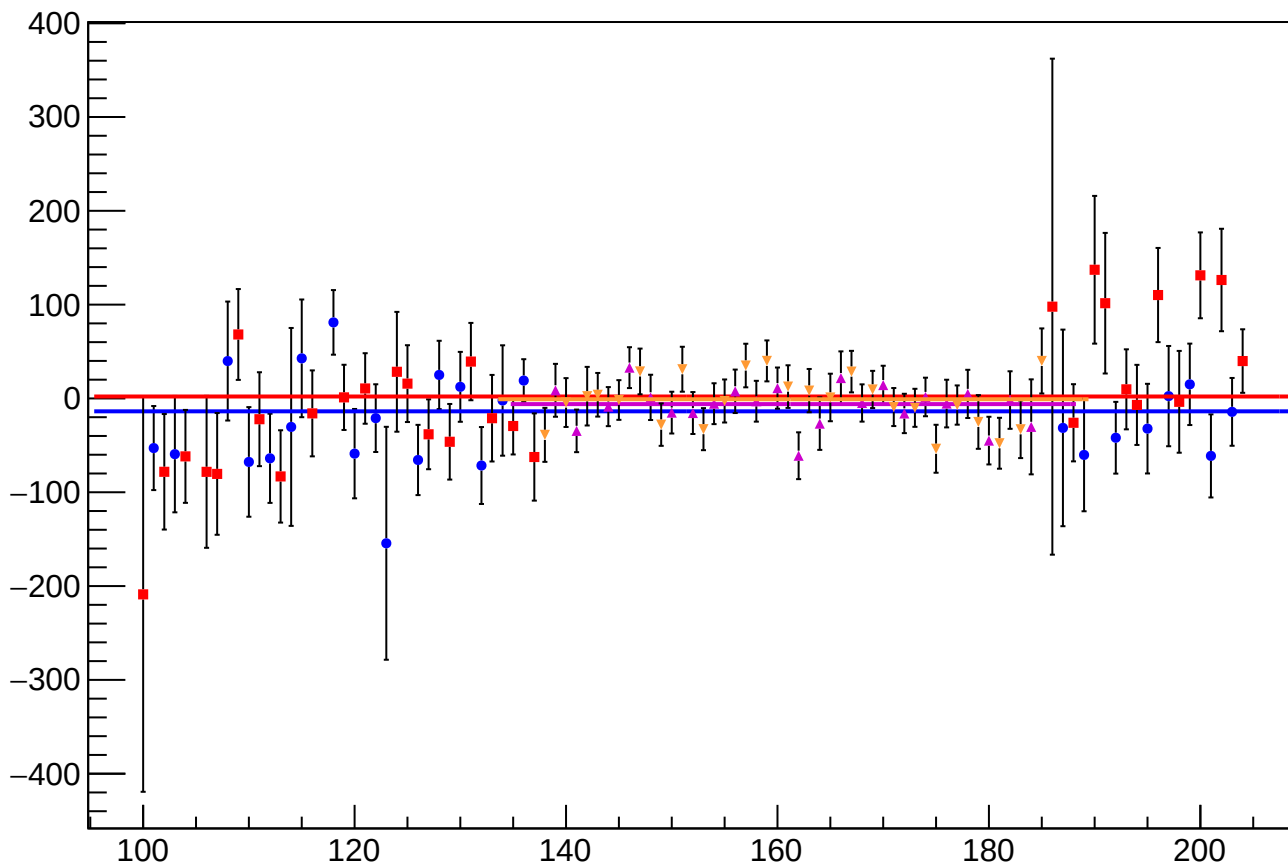
Right: 1555.308 $\pm$ 0.226 χ^2 /NDF: 4807107.7/54

In: 785.151 $\pm$ 0.111 χ^2 /NDF:9001102.6/47

Out: 797.548 $\pm$ 0.109 χ^2 /NDF:11138526.0/54

All: 791.487 $\pm$ 0.078 χ^2 /NDF: 20145978.9/10

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.735 ± 8.821 χ^2/NDF : 25.3/24

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 2.072 ± 8.579 χ^2/NDF : 43.6/29

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

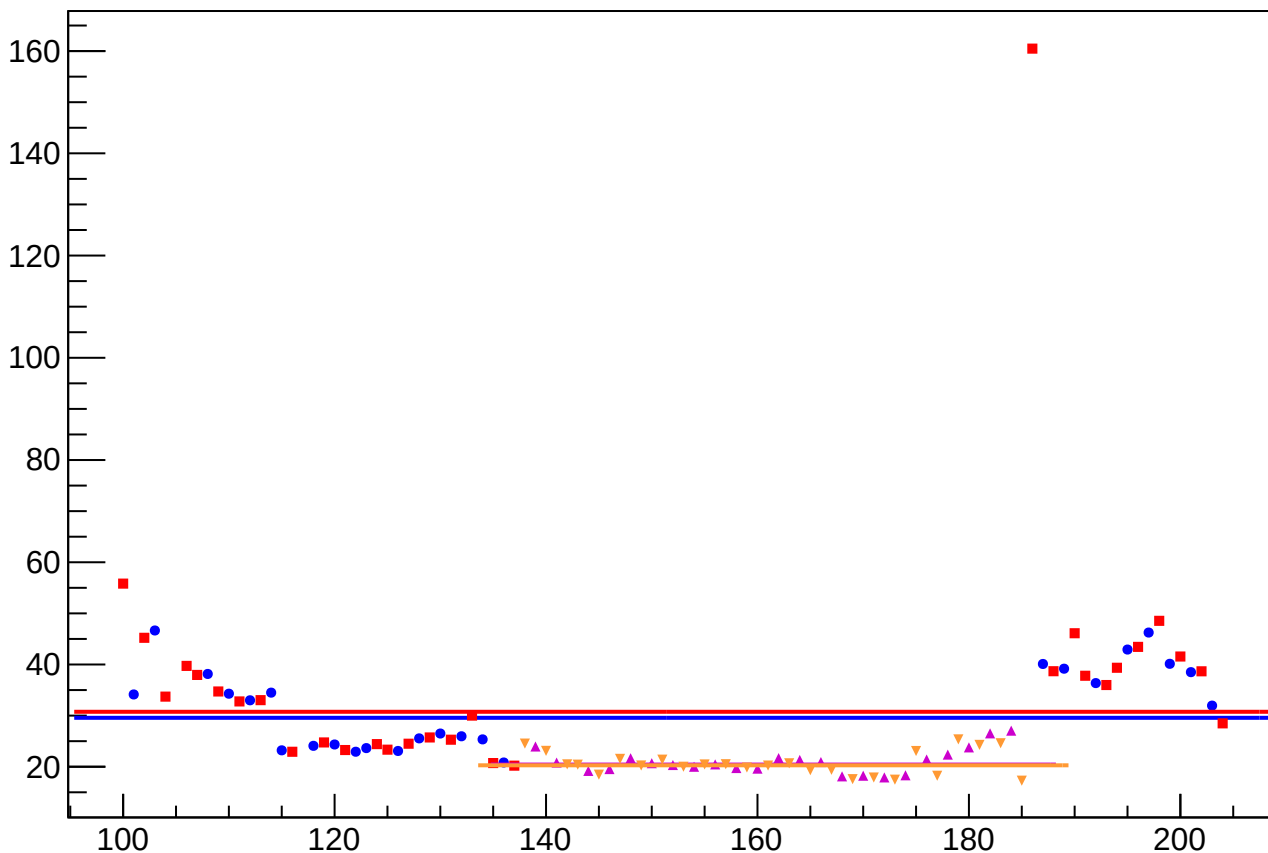
Right: -5.612 ± 6.150 χ^2/NDF : 70.6/54

In: -7.870 ± 4.300 χ^2/NDF : 42.8/47

Out: -0.171 ± 4.162 χ^2/NDF : 71.6/54

All: -3.895 ± 2.991 χ^2/NDF : 116.1/102

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.570 $\pm$ 0.006 χ^2 /NDF: 1517428.7/24

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 30.750 $\pm$ 0.006 χ^2 /NDF: 2210672.2/29

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

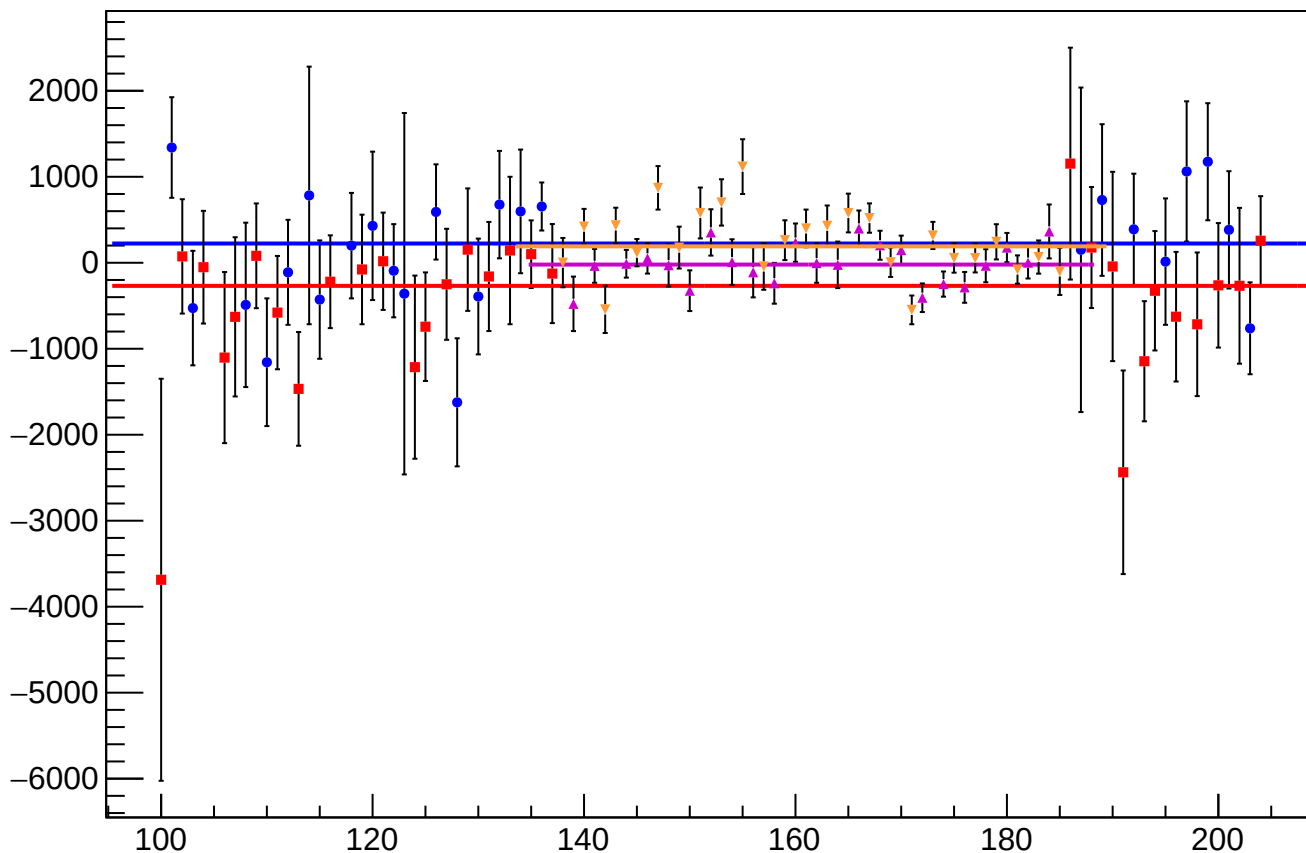
Right: 30.177 $\pm$ 0.004 χ^2 /NDF: 3746488.5/54

In: 22.598 $\pm$ 0.003 χ^2 /NDF: 3480178.3/47

Out: 22.744 $\pm$ 0.003 χ^2 /NDF: 4895810.4/54

All: 22.673 $\pm$ 0.002 χ^2 /NDF: 8377189.1/102

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 223.923 $\pm$ 128.404 χ^2 /NDF: 28.3/24

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -268.548 $\pm$ 126.379 χ^2 /NDF: 18.5/29

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

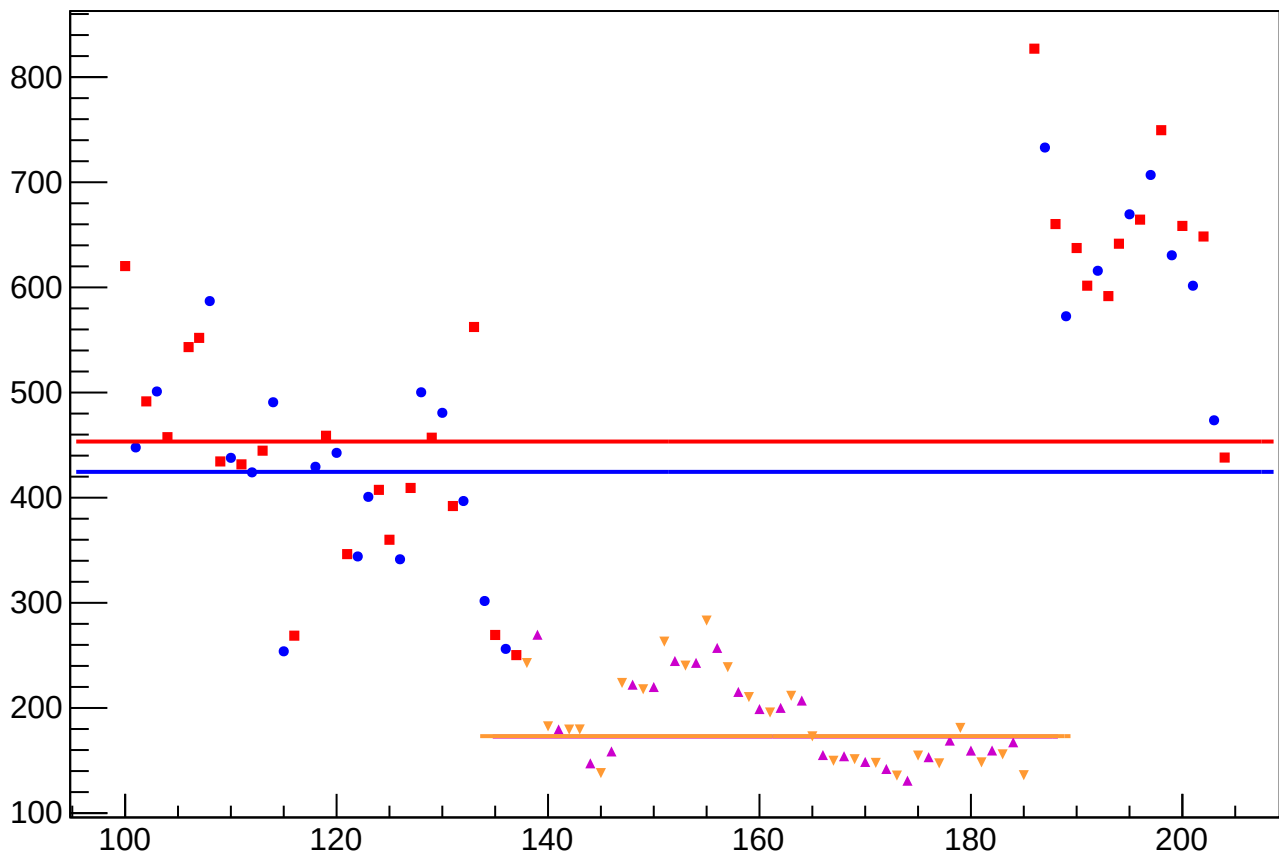
Right: -26.227 $\pm$ 90.071 χ^2 /NDF: 54.2/54

In: 2.970 $\pm$ 40.168 χ^2 /NDF: 59.3/47

Out: 146.511 $\pm$ 39.269 χ^2 /NDF: 98.3/54

All: 76.365 $\pm$ 28.080 χ^2 /NDF: 164.1/102

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 424.555 $\pm$ 0.091 χ^2 /NDF: 2209425.4/24

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF: 1561250.6/24

Right Out: 453.399 $\pm$ 0.089 χ^2 /NDF: 2462115.2/29

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF: 1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

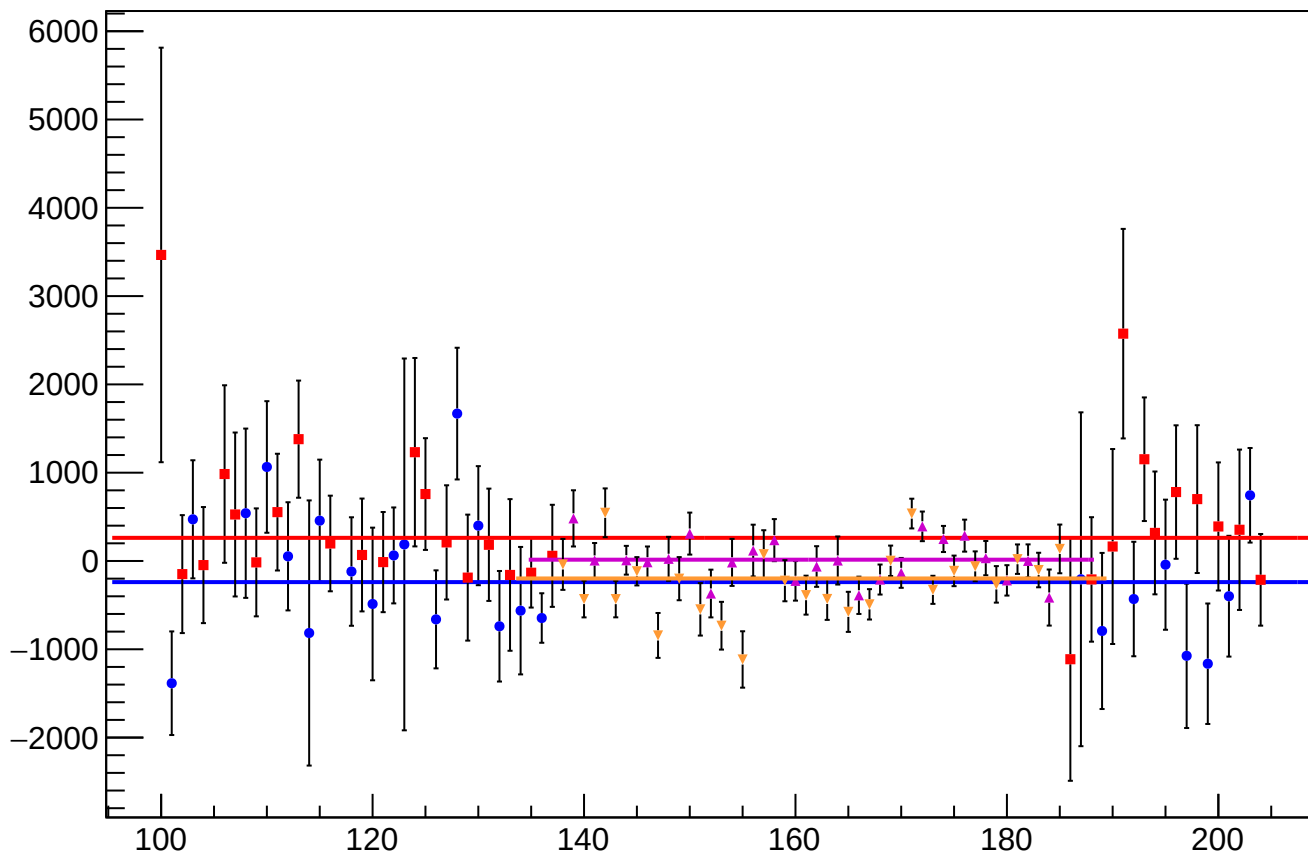
Right: 439.207 $\pm$ 0.064 χ^2 /NDF: 4722804.1/54

In: 197.462 $\pm$ 0.028 χ^2 /NDF: 10515895.3/47

Out: 200.262 $\pm$ 0.028 χ^2 /NDF: 12904885.5/54

All: 198.893 $\pm$ 0.020 χ^2 /NDF: 23425749.9/100

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -239.280 ± 128.759 $\chi^2/\text{NDF}: 28.3/24$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 262.073 ± 126.749 $\chi^2/\text{NDF}: 18.4/29$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

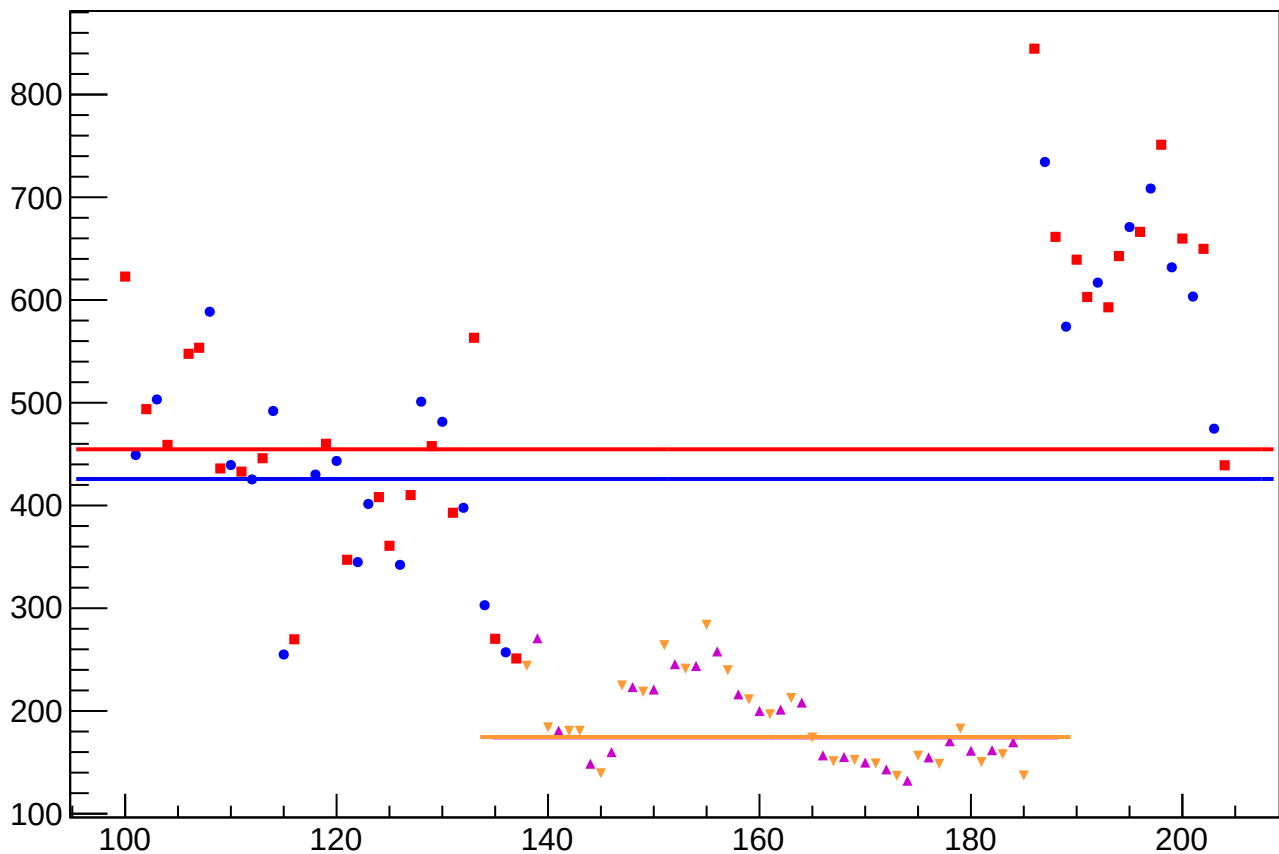
Right: 15.342 ± 90.327 $\chi^2/\text{NDF}: 54.4/54$

In: -10.465 ± 40.469 $\chi^2/\text{NDF}: 59.6/47$

Out: -153.112 ± 39.558 $\chi^2/\text{NDF}: 94.5/54$

All: -83.412 ± 28.288 $\chi^2/\text{NDF}: 160.4/102$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 425.795 $\pm$ 0.091 χ^2 /NDF: 2203332.4/24

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 454.679 $\pm$ 0.090 χ^2 /NDF: 2465271.5/29

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

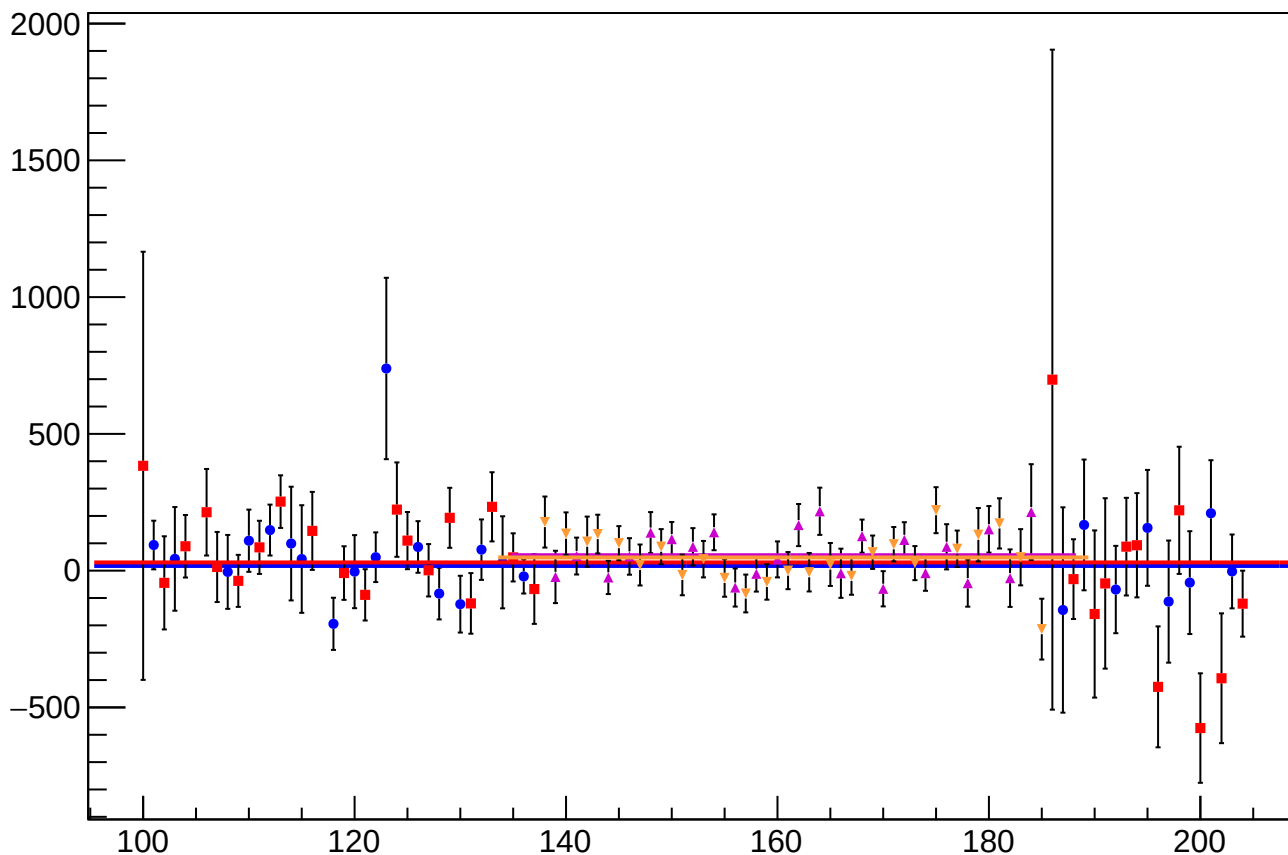
Right: 440.464 $\pm$ 0.064 χ^2 /NDF: 4719718.6/54

In: 199.133 $\pm$ 0.029 χ^2 /NDF: 10425115.4/47

Out: 201.925 $\pm$ 0.028 χ^2 /NDF: 12808751.9/54

All: 200.561 $\pm$ 0.020 χ^2 /NDF: 23238734.2/100

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 17.185 $\pm$ 24.594 χ^2 /NDF: 20.3/24

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 30.064 $\pm$ 24.005 χ^2 /NDF: 39.7/29

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

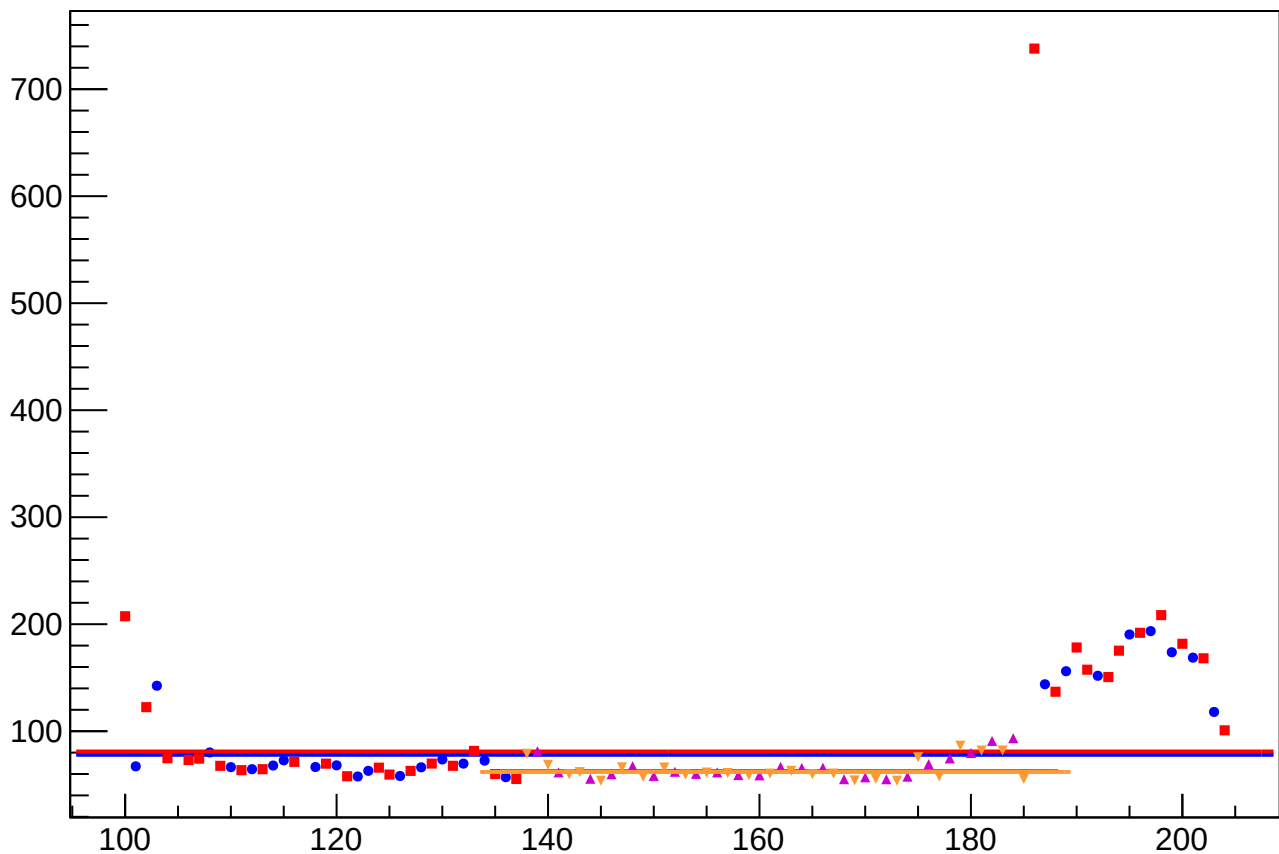
Right: 23.781 $\pm$ 17.178 χ^2 /NDF: 60.2/54

In: 45.582 $\pm$ 12.919 χ^2 /NDF:49.6/47

Out: 43.319 $\pm$ 12.484 χ^2 /NDF:69.4/54

All: 44.412 $\pm$ 8.977 χ^2 /NDF: 119.1/102

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 77.991+/-0.017 χ^2/NDF : 3770282.1/24

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 81.037+/-0.017 χ^2/NDF : 4863466.7/29

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

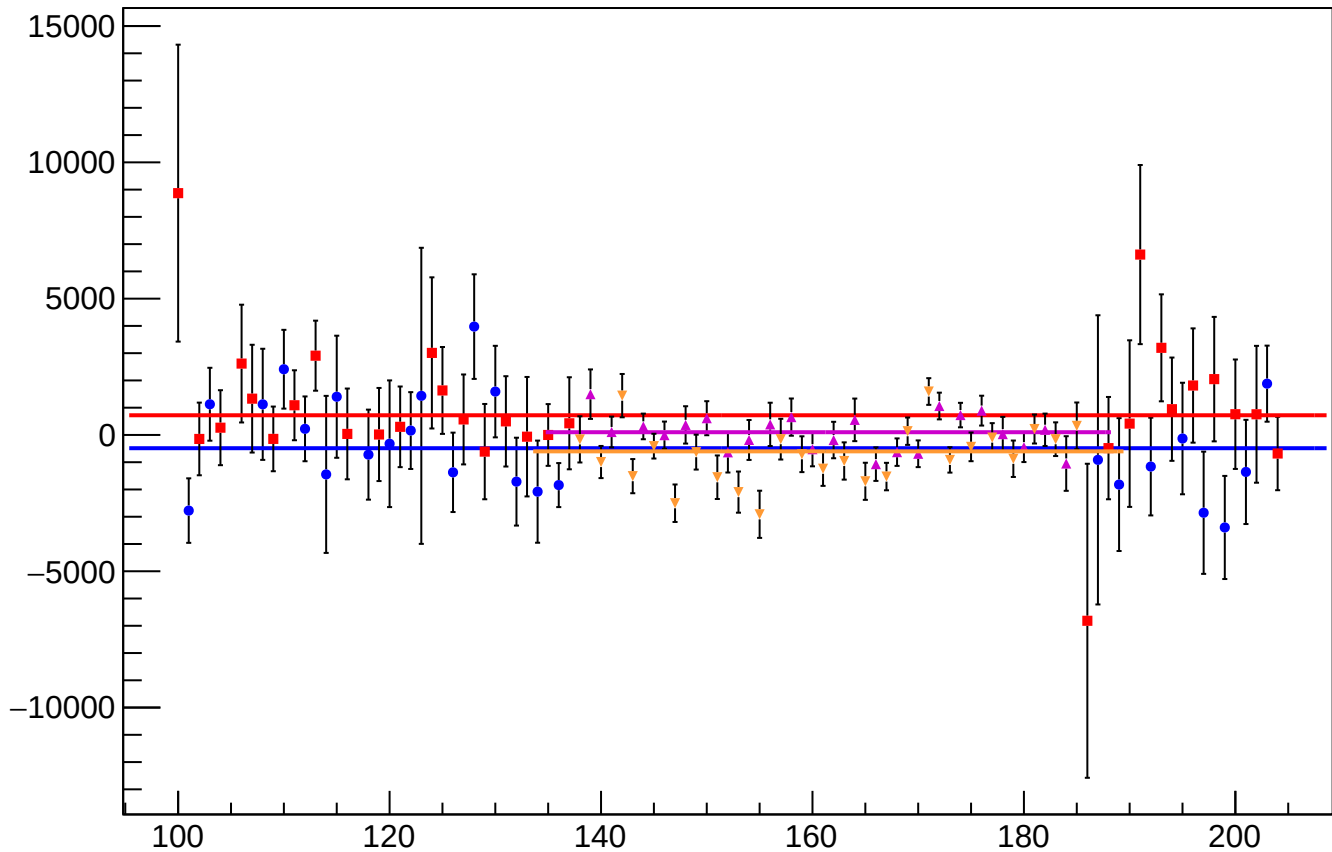
Right: 79.551+/-0.012 χ^2/NDF : 8649459.5/54

In: 66.852+/-0.009 χ^2/NDF : 4912427.5/47

Out: 67.110+/-0.009 χ^2/NDF : 6391304.7/54

All: 66.985+/-0.006 χ^2/NDF : 11304143.8/102

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -486.161 $\pm$ 325.603 χ^2 /NDF: 29.8/24

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 722.190 $\pm$ 315.725 χ^2 /NDF: 18.4/29

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

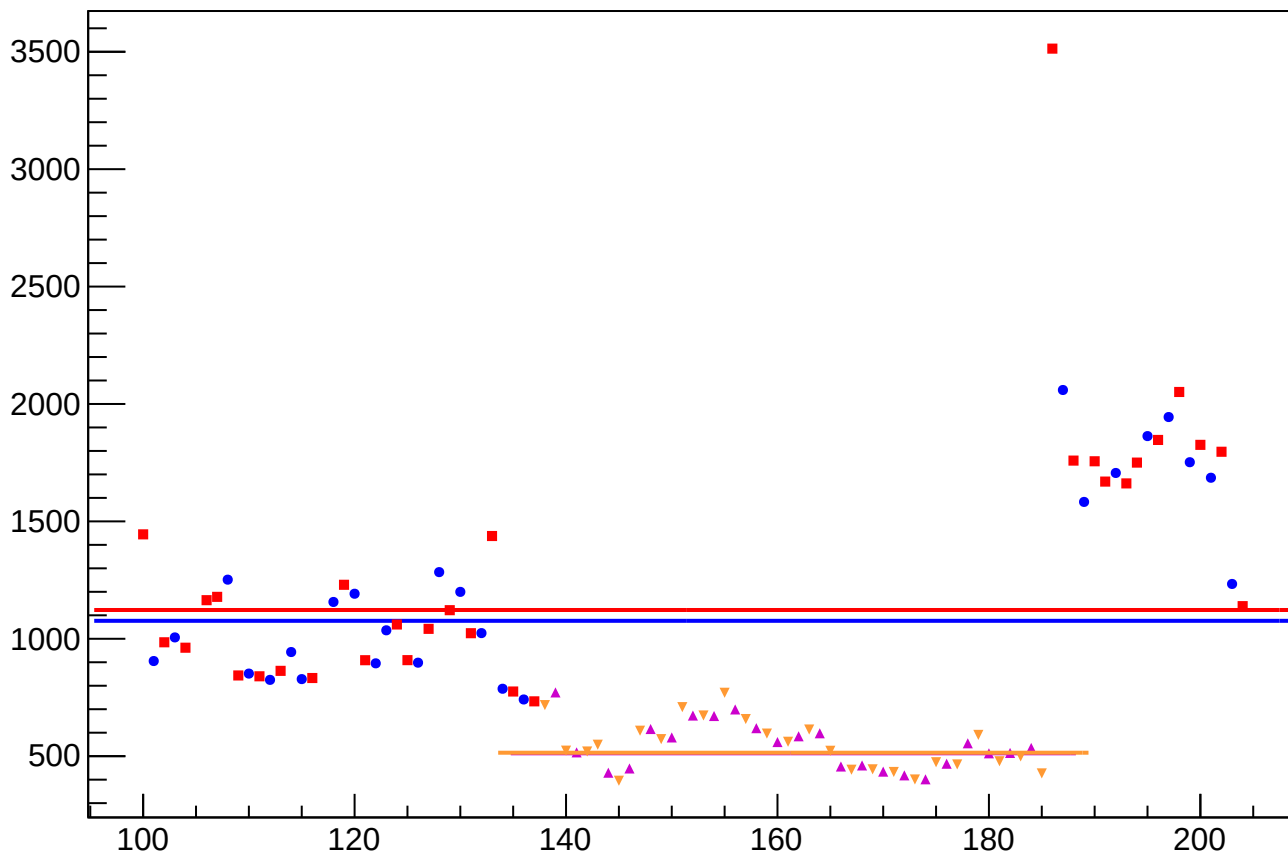
Right: 136.623 $\pm$ 226.663 χ^2 /NDF: 55.3/54

In: 25.474 $\pm$ 116.472 χ^2 /NDF:58.1/47

Out: -429.228 $\pm$ 113.896 χ^2 /NDF:99.1/54

All: -206.961 $\pm$ 81.432 χ^2 /NDF: 165.0/102

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1076.495+/-0.230 χ^2/NDF : 2211032.0/24

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1122.587+/-0.223 χ^2/NDF : 2887182.6/29

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

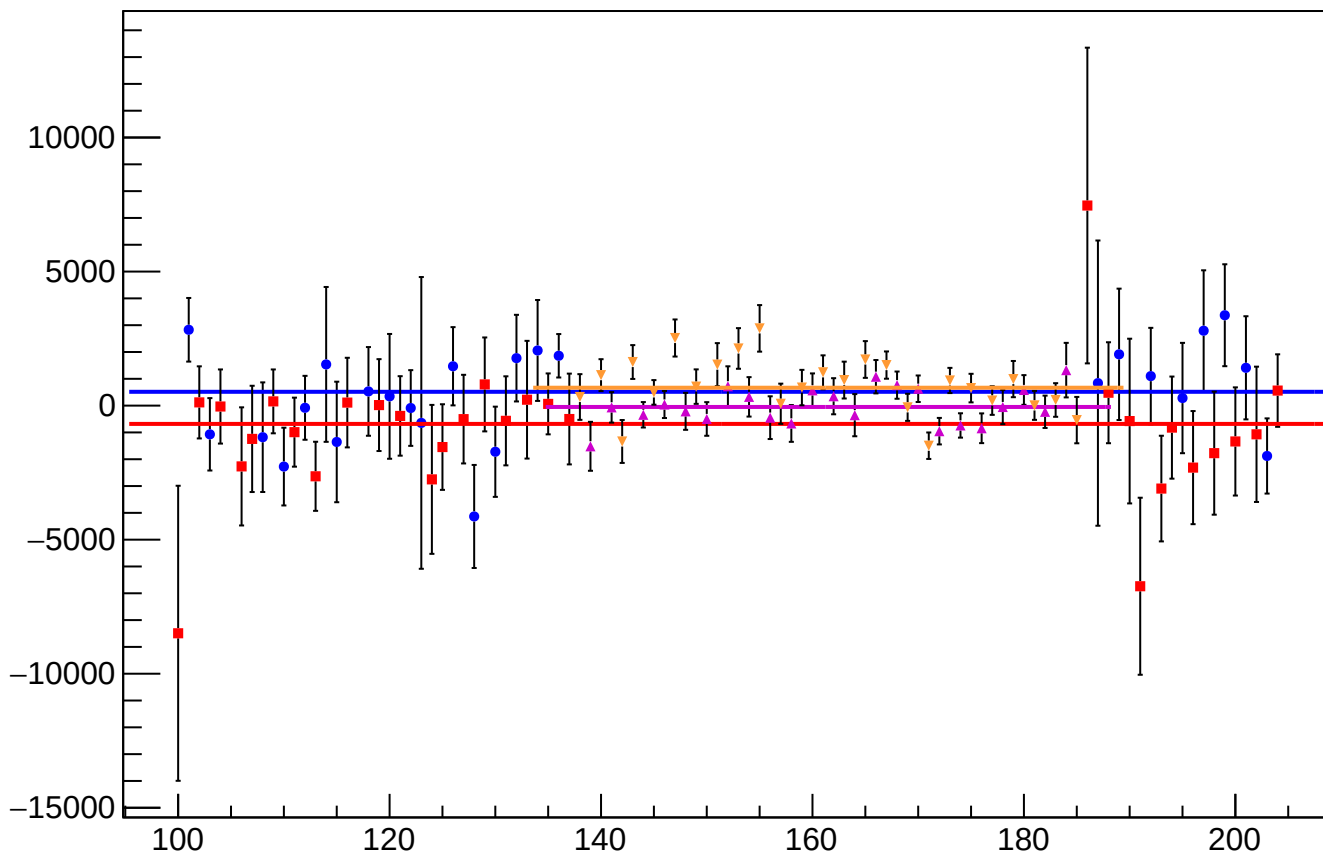
Right: 1100.251+/-0.160 χ^2/NDF : 5118869.9/54

In: 584.405+/-0.082 χ^2/NDF :8490804.0/47

Out: 593.858+/-0.081 χ^2/NDF :10530160.3/54

All: 589.237+/-0.058 χ^2/NDF : 19027699.1/100

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 515.443+/-326.834 χ^2/NDF : 29.8/24

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -682.356+/-317.060 χ^2/NDF : 17.6/29

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

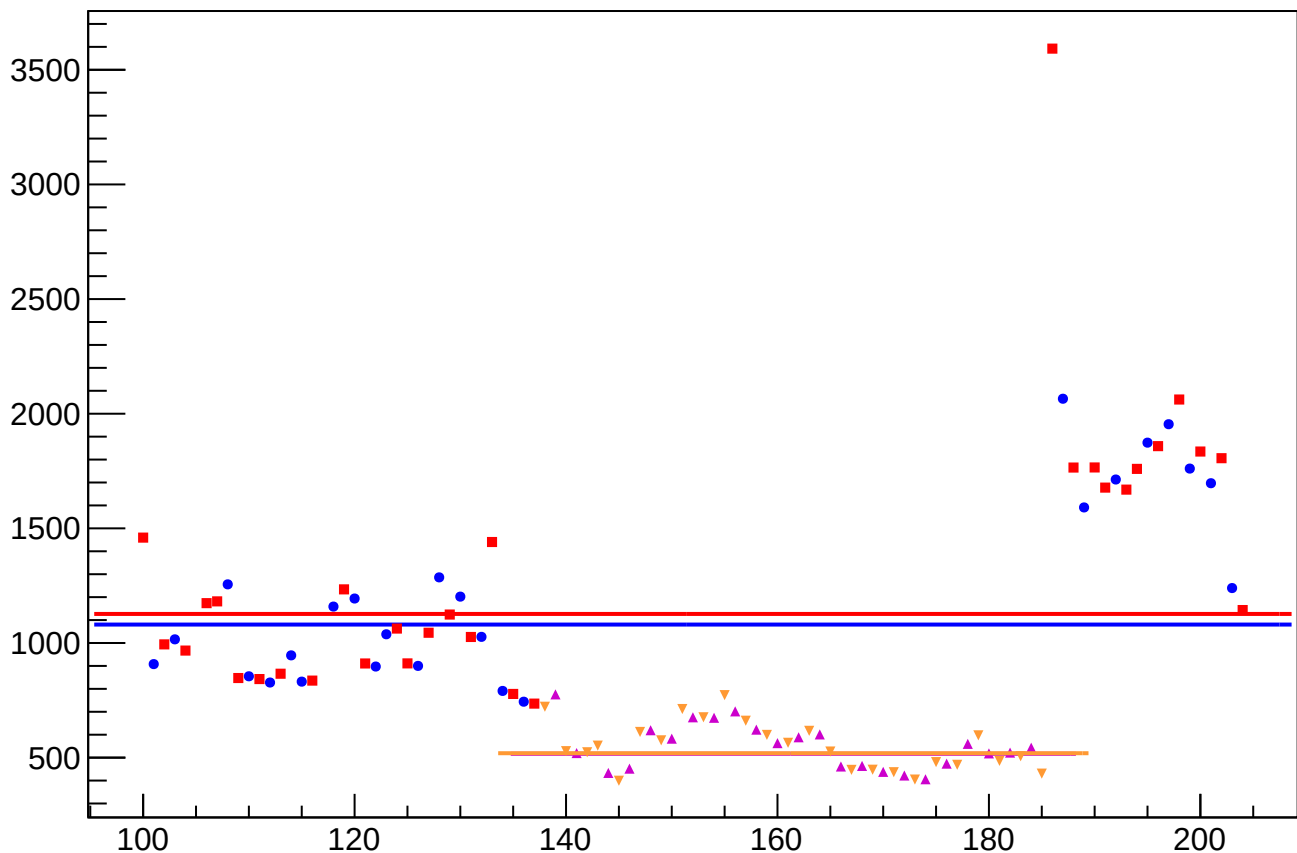
Right: -101.635+/-227.572 χ^2/NDF : 54.3/54

In: 22.898+/-117.407 χ^2/NDF : 58.5/47

Out: 490.670+/-114.791 χ^2/NDF : 94.9/54

All: 262.054+/-82.079 χ^2/NDF : 161.5/102

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1080.397 $\pm$ 0.231 χ^2 /NDF: 2218132.3/24

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1126.720 $\pm$ 0.224 χ^2 /NDF: 2901807.8/29

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

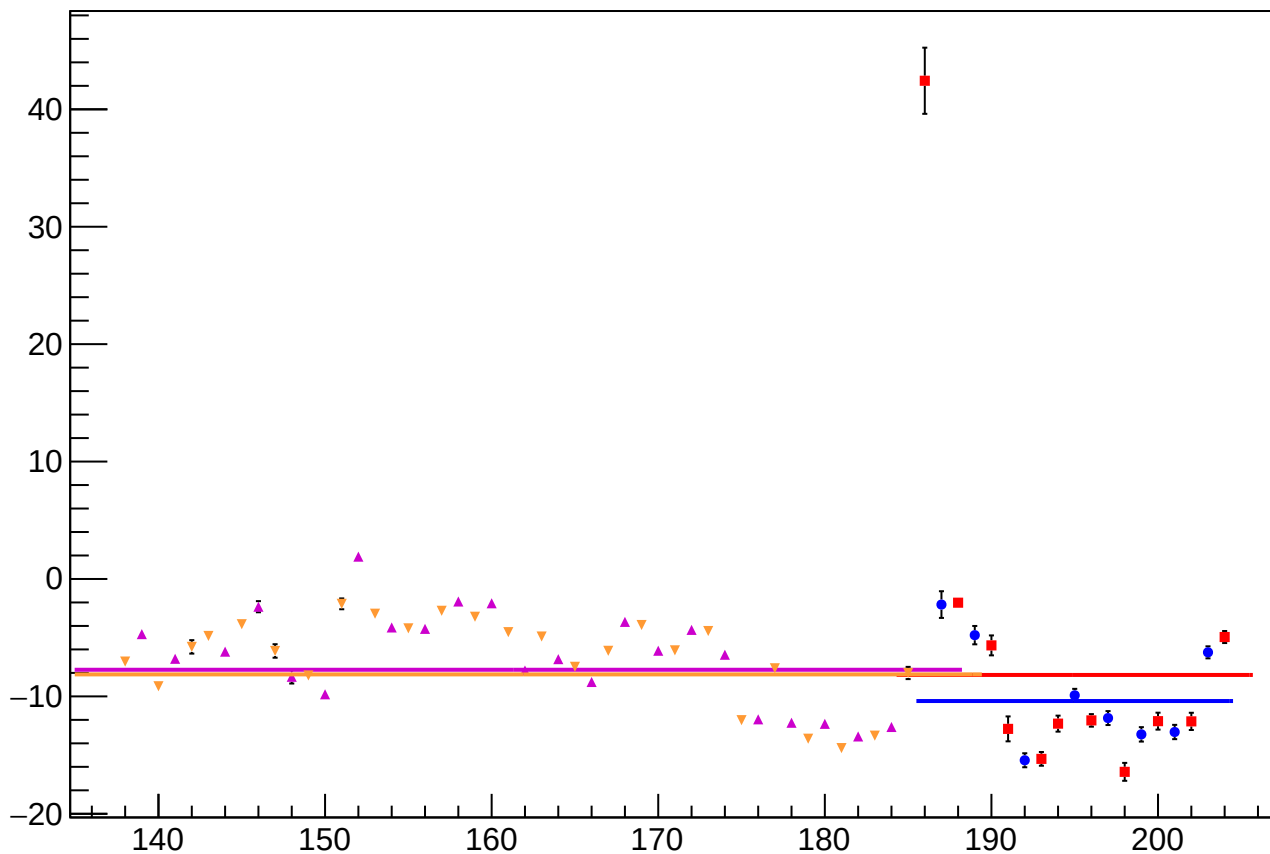
Right: 1104.261 $\pm$ 0.161 χ^2 /NDF: 5140637.9/54

In: 589.522 $\pm$ 0.083 χ^2 /NDF:8419407.9/47

Out: 598.880 $\pm$ 0.081 χ^2 /NDF:10453498.6/54

All: 594.306 $\pm$ 0.058 χ^2 /NDF: 18879403.7/10

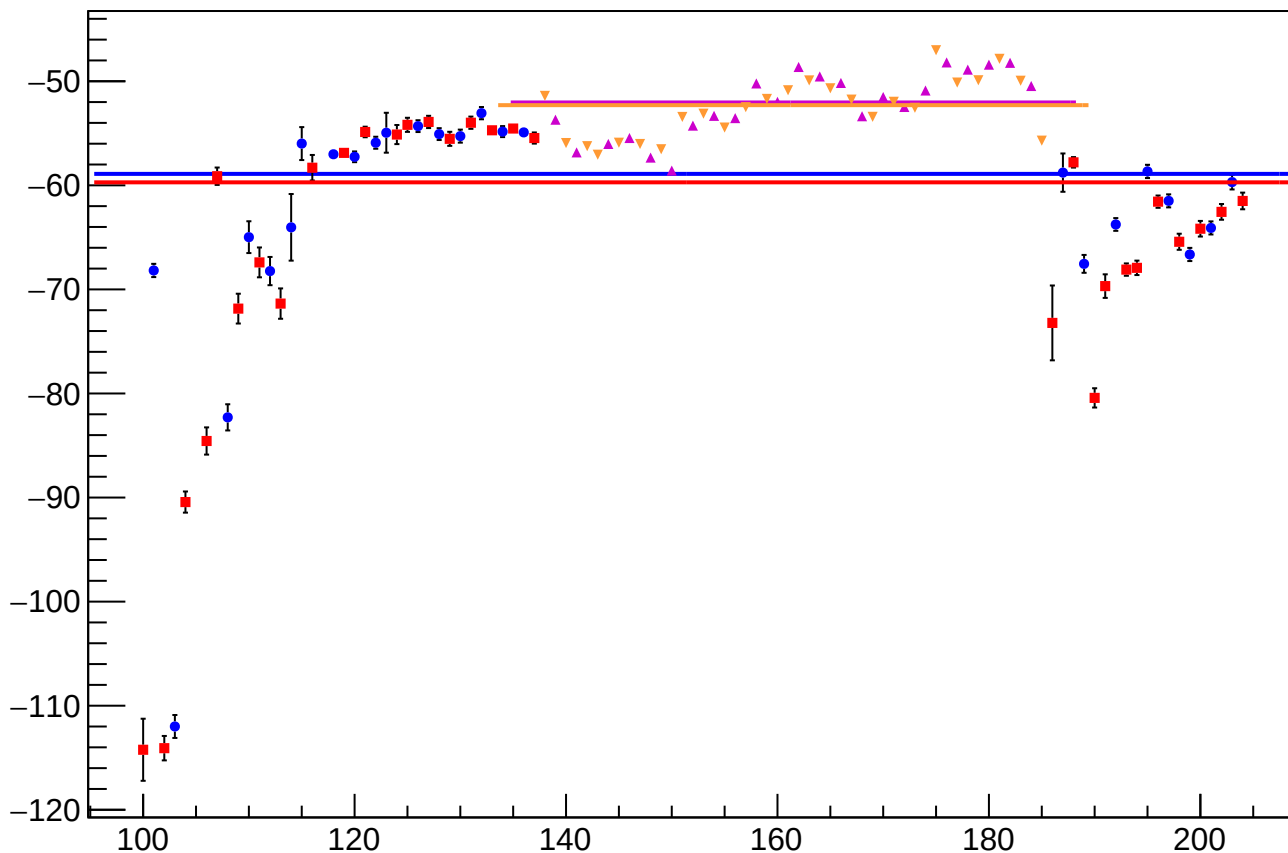
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.395 ± 0.221 $\chi^2/\text{NDF}: 287.6/7$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -8.174 ± 0.185 $\chi^2/\text{NDF}: 1140.4/10$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: -9.091 ± 0.142 $\chi^2/\text{NDF}: 1487.4/18$
 In: -7.968 ± 0.066 $\chi^2/\text{NDF}: 4139.2/30$
 Out: -8.133 ± 0.063 $\chi^2/\text{NDF}: 4776.0/35$
 All: -8.053 ± 0.046 $\chi^2/\text{NDF}: 8918.4/66$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.900 $\pm$ 0.124 χ^2 /NDF: 3944.5/24

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -59.713 $\pm$ 0.120 χ^2 /NDF: 5957.5/29

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF: 3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

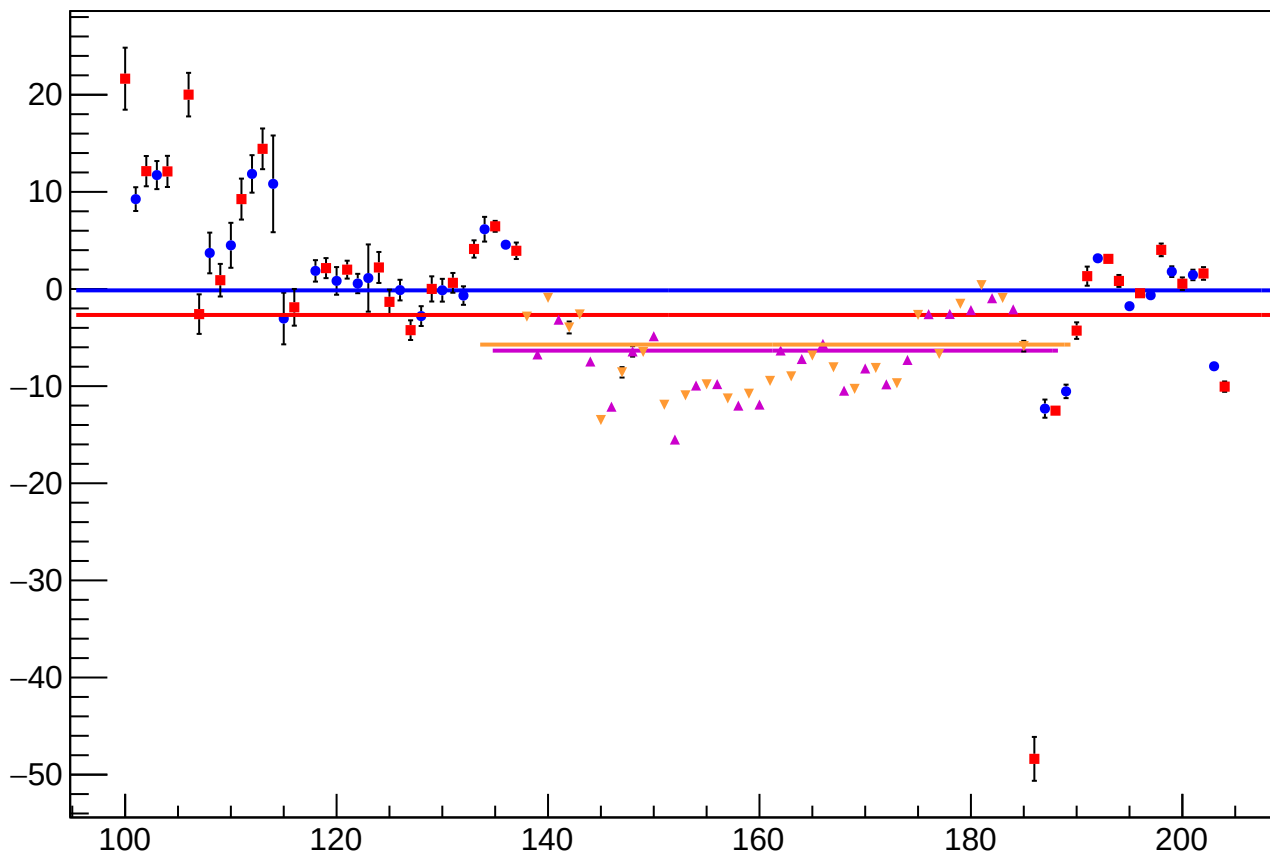
Right: -59.319 $\pm$ 0.086 χ^2 /NDF: 9924.1/54

In: -53.241 $\pm$ 0.052 χ^2 /NDF: 9653.0/47

Out: -53.584 $\pm$ 0.050 χ^2 /NDF: 11764.6/54

All: -53.419 $\pm$ 0.036 χ^2 /NDF: 21440.2/102

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.140 ± 0.157 χ^2/NDF : 1047.0/24

Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24

Right Out: -2.672 ± 0.139 χ^2/NDF : 3183.3/29

Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47

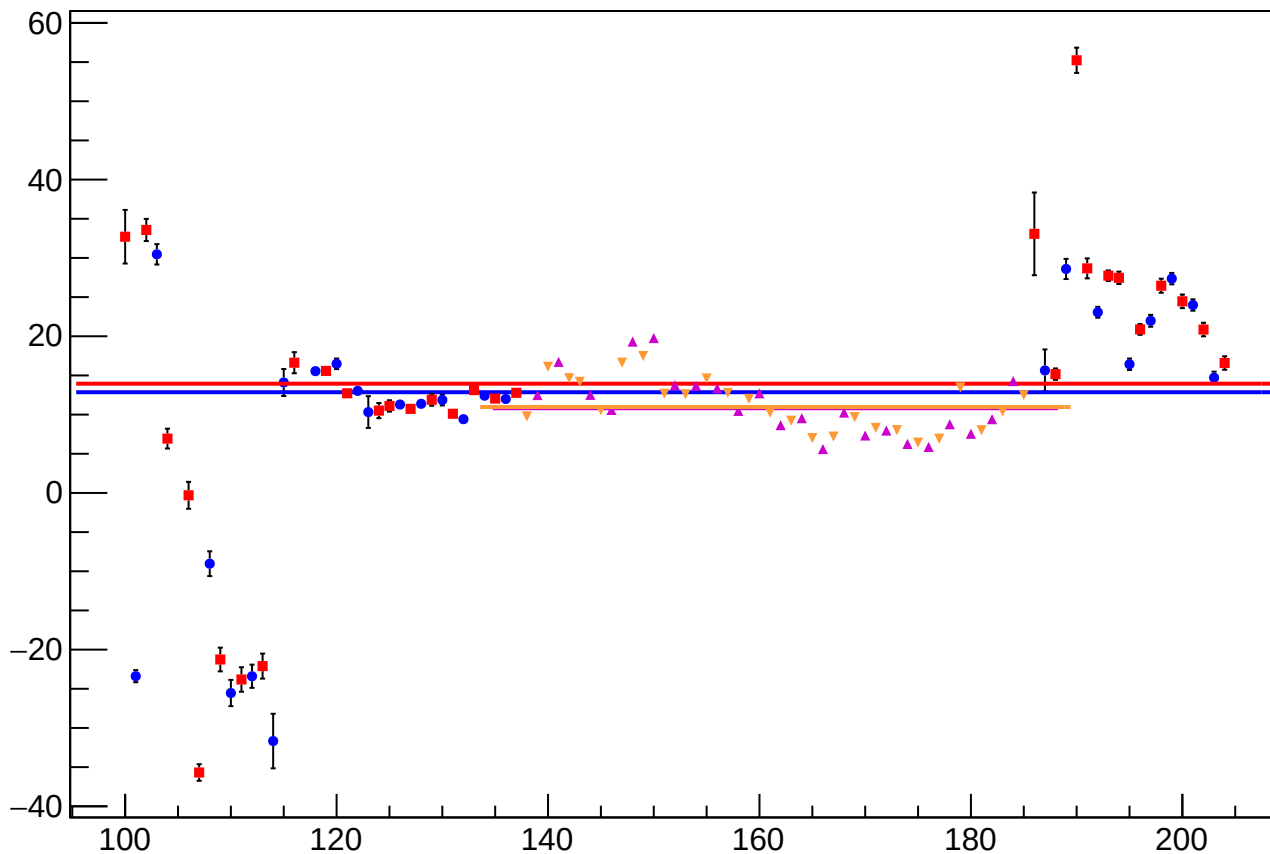
Right: -1.559 ± 0.104 χ^2/NDF : 4376.8/54

In: -5.345 ± 0.063 χ^2/NDF : 5746.9/47

Out: -5.136 ± 0.061 χ^2/NDF : 7557.2/54

All: -5.237 ± 0.044 χ^2/NDF : 13309.8/102

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.858 $\pm$ 0.139 χ^2 /NDF: 5136.0/24

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.947 $\pm$ 0.137 χ^2 /NDF: 6346.0/29

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

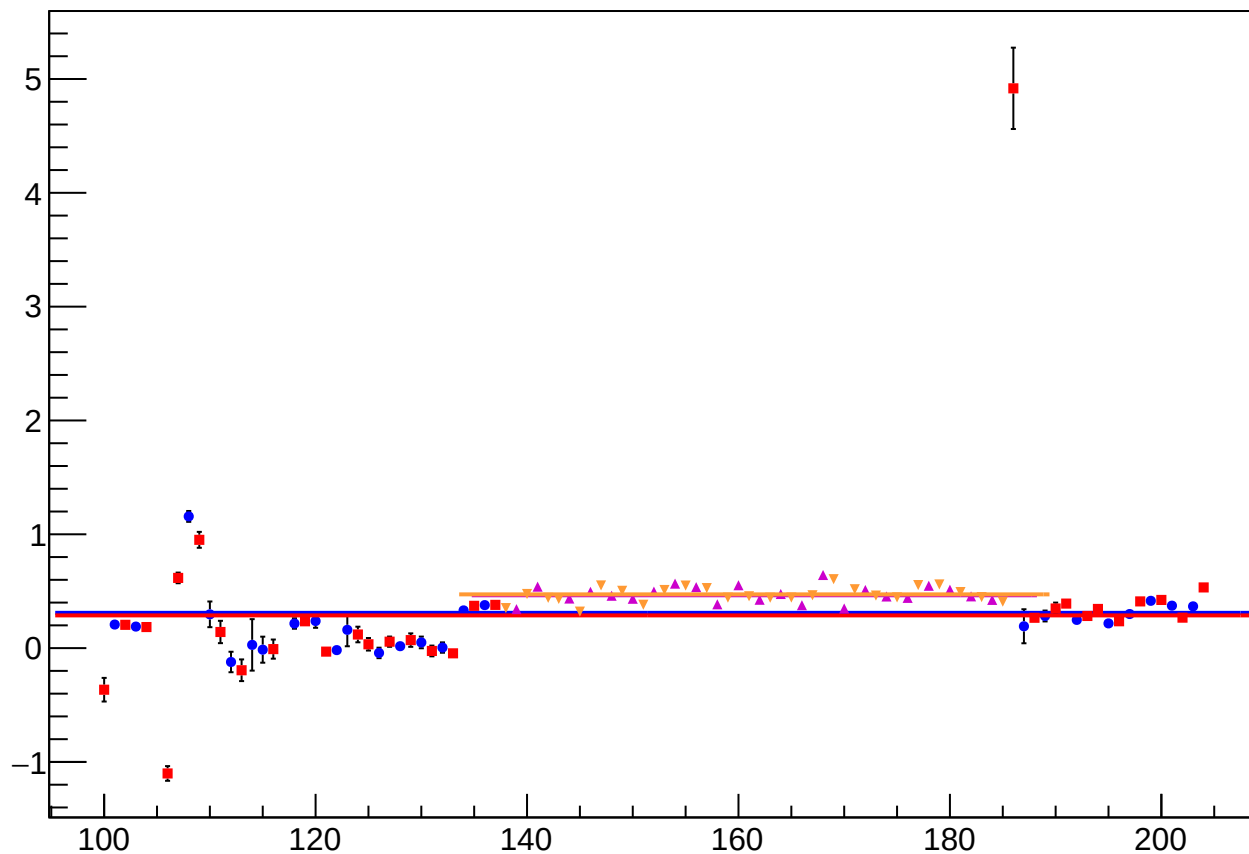
Right: 13.408 $\pm$ 0.098 χ^2 /NDF: 11513.1/54

In: 11.163 $\pm$ 0.057 χ^2 /NDF: 8862.3/47

Out: 11.463 $\pm$ 0.056 χ^2 /NDF: 9376.1/54

All: 11.317 $\pm$ 0.040 χ^2 /NDF: 18252.5/102

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 $\pm$ 0.006 χ^2 /NDF: 714.4/24

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.288 $\pm$ 0.006 χ^2 /NDF: 1299.2/29

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

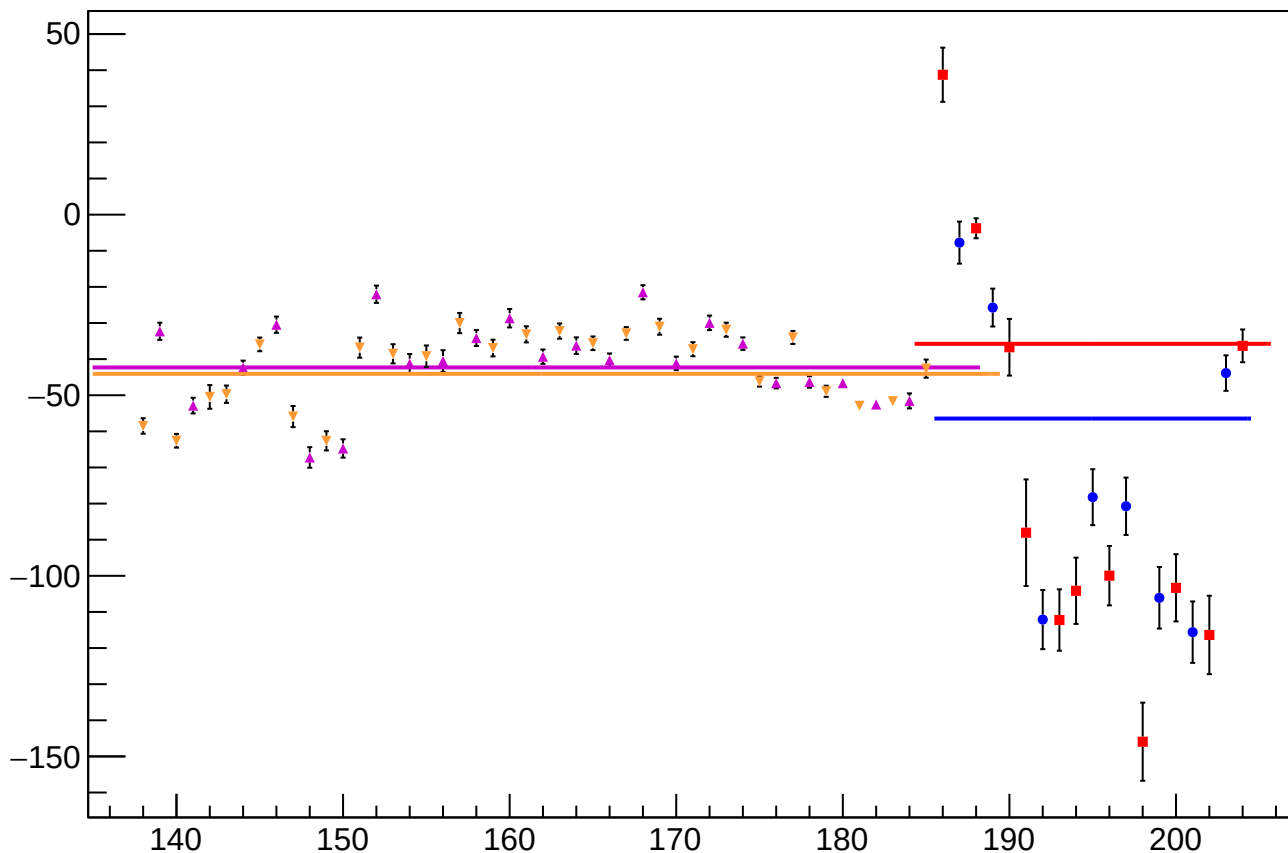
Right: 0.299 $\pm$ 0.004 χ^2 /NDF: 2020.5/54

In: 0.437 $\pm$ 0.003 χ^2 /NDF: 1982.2/47

Out: 0.440 $\pm$ 0.003 χ^2 /NDF: 2597.5/54

All: 0.439 $\pm$ 0.002 χ^2 /NDF: 4580.2/102

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



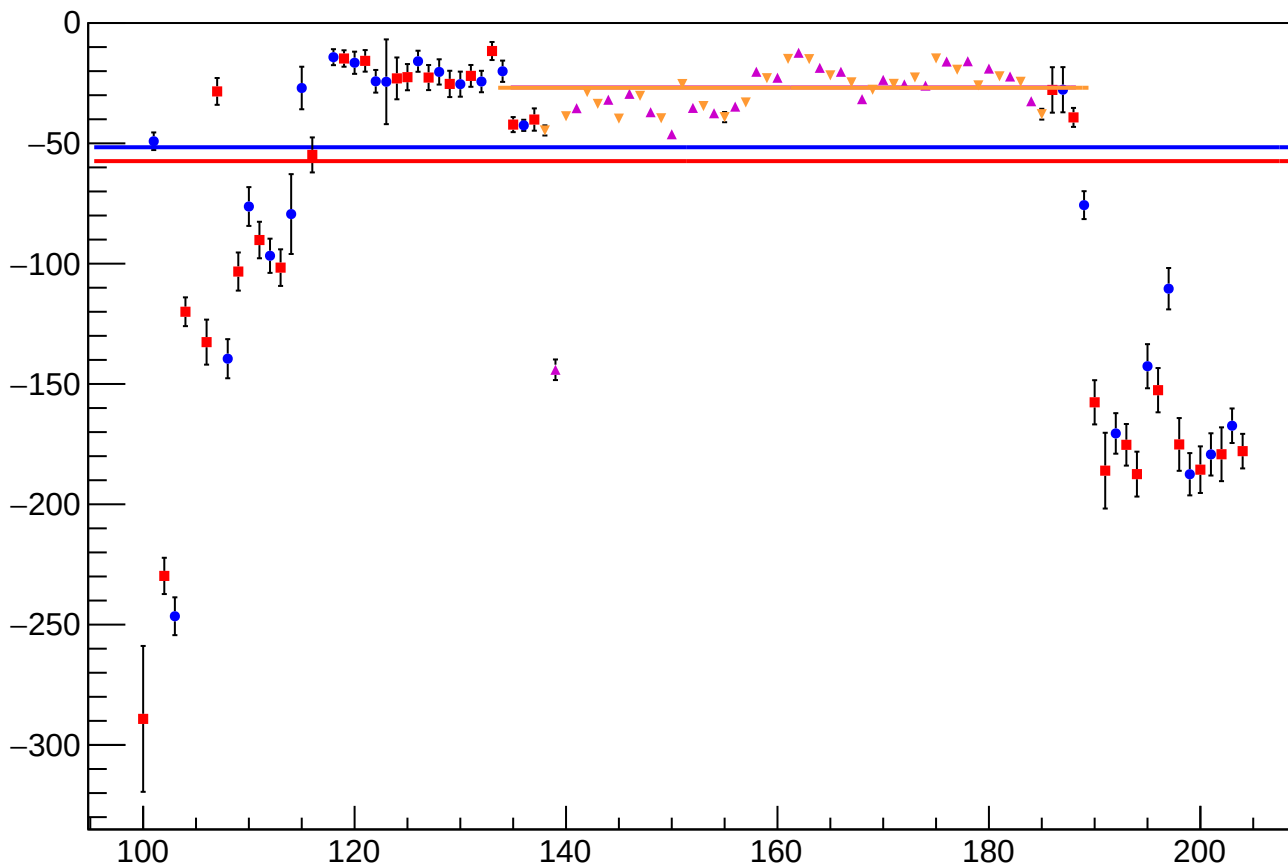
Right In: -56.456 ± 2.341 χ^2/NDF : 256.8/7
 Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24
 Right Out: -35.756 ± 1.866 χ^2/NDF : 653.9/10
 Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47
 Right: -43.803 ± 1.459 χ^2/NDF : 958.6/18

In: -42.704 ± 0.393 χ^2/NDF : 933.0/30
 Out: -43.732 ± 0.380 χ^2/NDF : 1305.5/35

All: -43.235 ± 0.274 χ^2/NDF : 2242.0/66

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -51.625 ± 1.064 $\chi^2/\text{NDF}: 2324.4/24$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -57.393 ± 1.081 $\chi^2/\text{NDF}: 2889.5/29$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

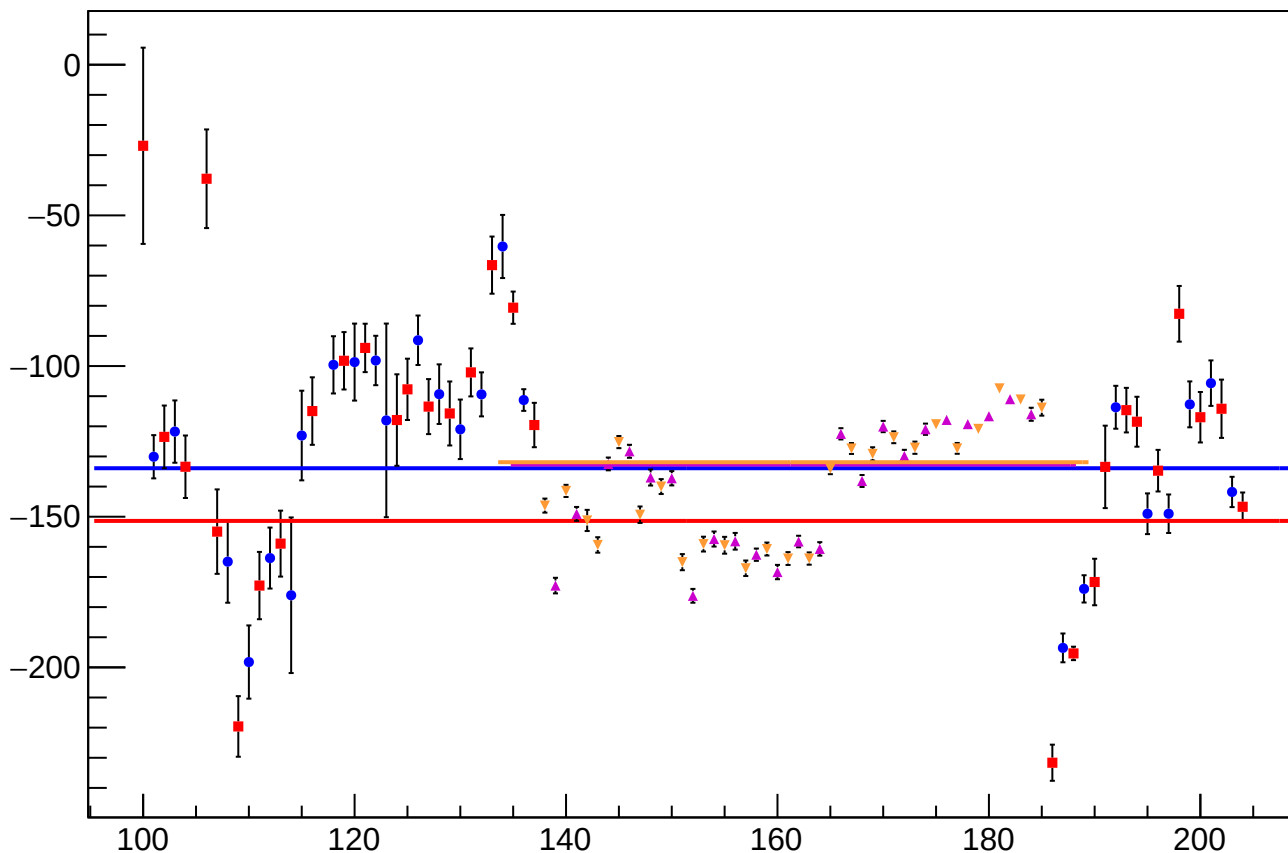
Right: -54.464 ± 0.759 $\chi^2/\text{NDF}: 5228.3/54$

In: -28.909 ± 0.312 $\chi^2/\text{NDF}: 4217.2/47$

Out: -29.305 ± 0.304 $\chi^2/\text{NDF}: 4253.0/54$

All: -29.112 ± 0.218 $\chi^2/\text{NDF}: 8471.0/102$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -133.912 ± 1.469 $\chi^2/\text{NDF}: 498.2/24$

Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$

Right Out: -151.393 ± 1.302 $\chi^2/\text{NDF}: 1290.9/29$

Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$

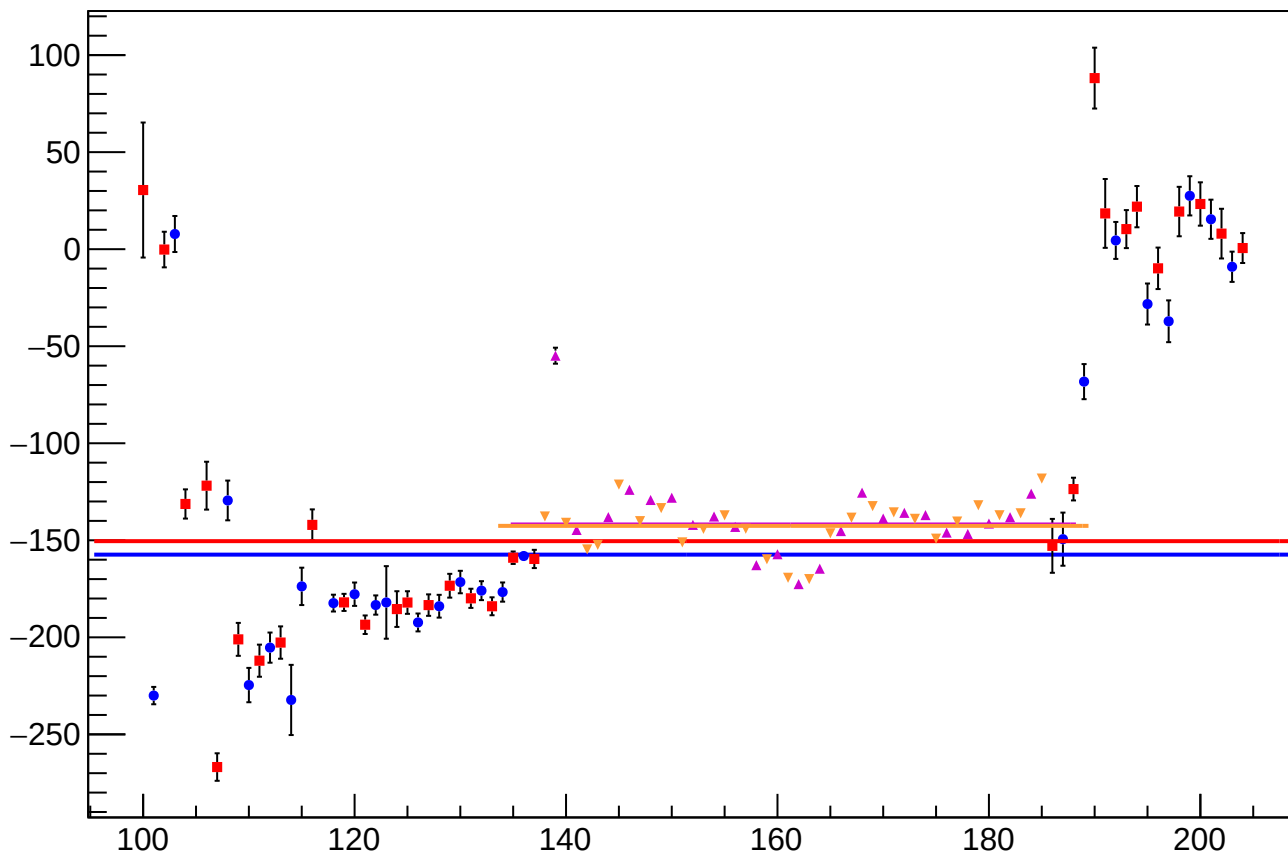
Right: -143.706 ± 0.974 $\chi^2/\text{NDF}: 1868.5/54$

In: -132.774 ± 0.385 $\chi^2/\text{NDF}: 2979.1/47$

Out: -133.528 ± 0.375 $\chi^2/\text{NDF}: 3935.7/54$

All: -133.161 ± 0.269 $\chi^2/\text{NDF}: 6916.8/102$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -157.387 ± 1.201 χ^2/NDF : 2542.2/24

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -150.443 ± 1.242 χ^2/NDF : 3038.7/29

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

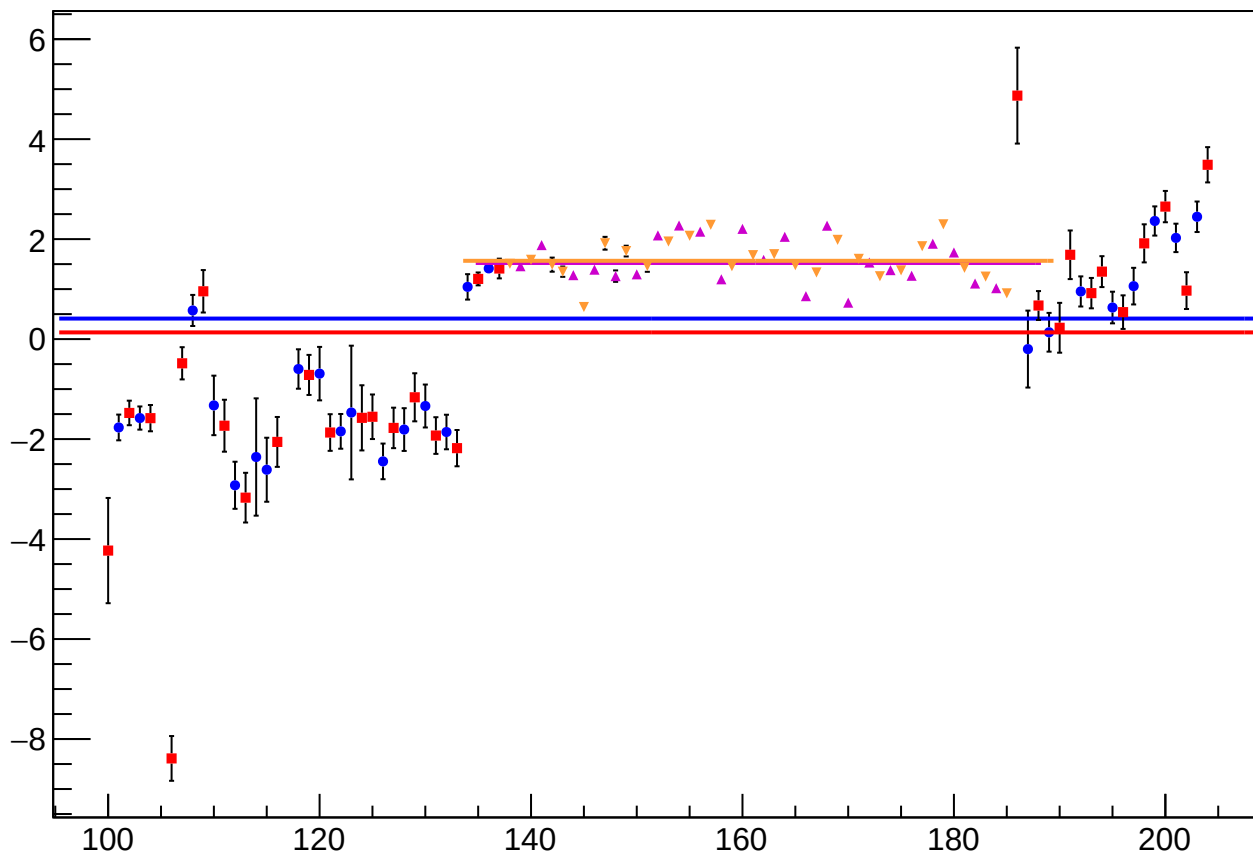
Right: -154.032 ± 0.863 χ^2/NDF : 5597.1/54

In: -143.162 ± 0.348 χ^2/NDF : 4239.8/47

Out: -143.156 ± 0.340 χ^2/NDF : 4223.6/54

All: -143.159 ± 0.243 χ^2/NDF : 8463.4/102

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.411 ± 0.058 χ^2/NDF : 679.9/24

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.134 ± 0.060 χ^2/NDF : 1060.9/29

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

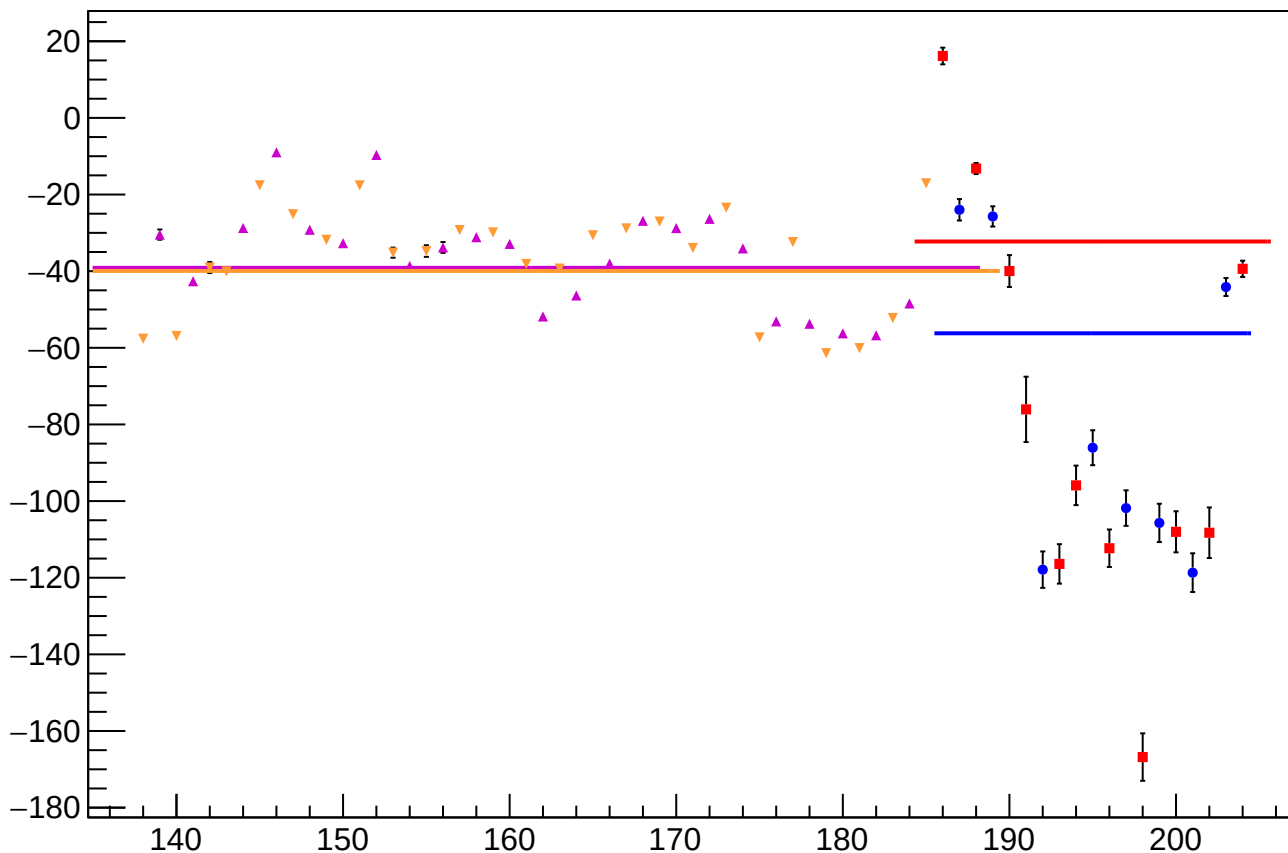
Right: 0.276 ± 0.042 χ^2/NDF : 1751.7/54

In: 1.441 ± 0.016 χ^2/NDF : 1754.2/47

Out: 1.468 ± 0.016 χ^2/NDF : 2138.9/54

All: 1.455 ± 0.011 χ^2/NDF : 3894.7/102

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -56.211 ± 1.219 $\chi^2/\text{NDF}: 852.1/7$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -32.259 ± 0.917 $\chi^2/\text{NDF}: 2205.1/10$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

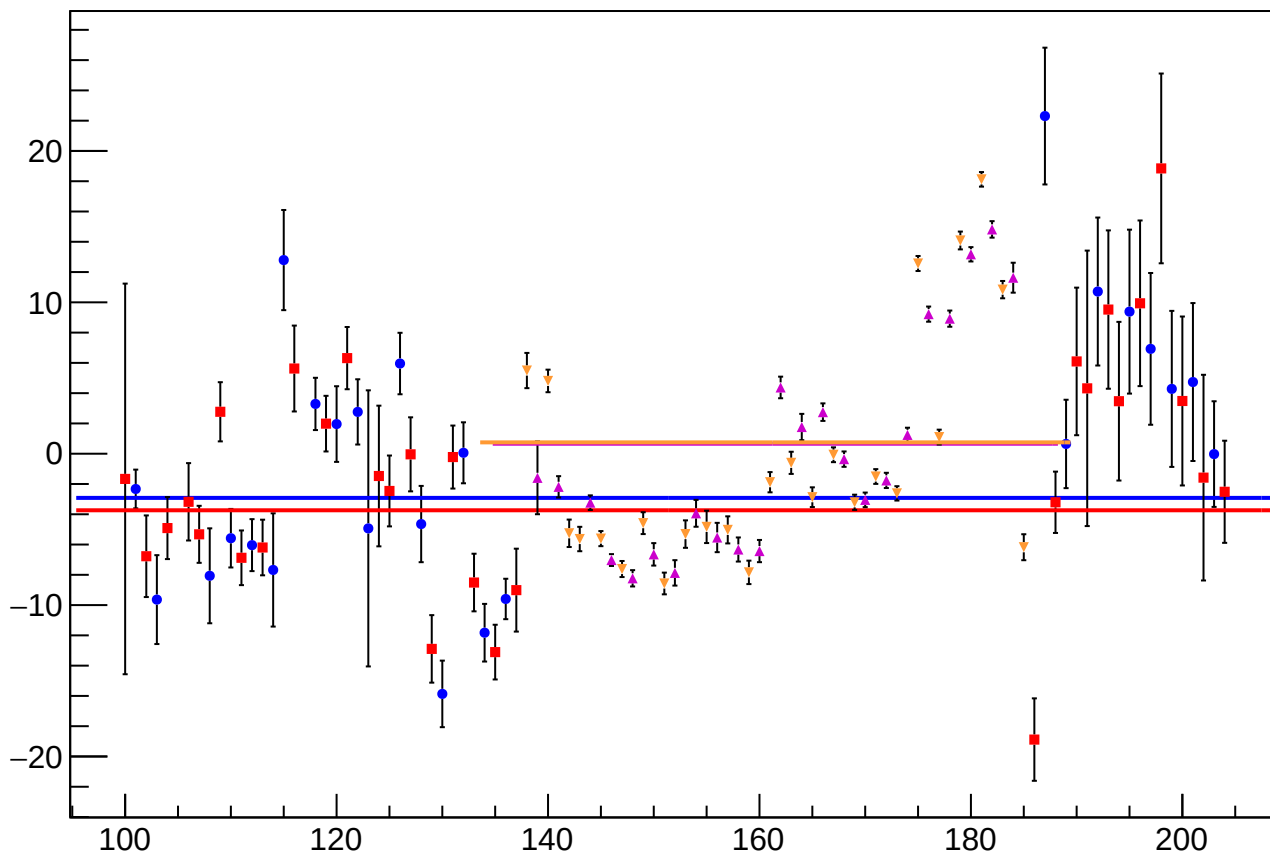
Right: -40.908 ± 0.733 $\chi^2/\text{NDF}: 3303.8/18$

In: -39.407 ± 0.153 $\chi^2/\text{NDF}: 9579.6/30$

Out: -39.726 ± 0.151 $\chi^2/\text{NDF}: 12079.8/35$

All: -39.569 ± 0.108 $\chi^2/\text{NDF}: 21661.7/66$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.918 ± 0.474 $\chi^2/\text{NDF}: 218.9/24$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.737 ± 0.467 $\chi^2/\text{NDF}: 187.5/29$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

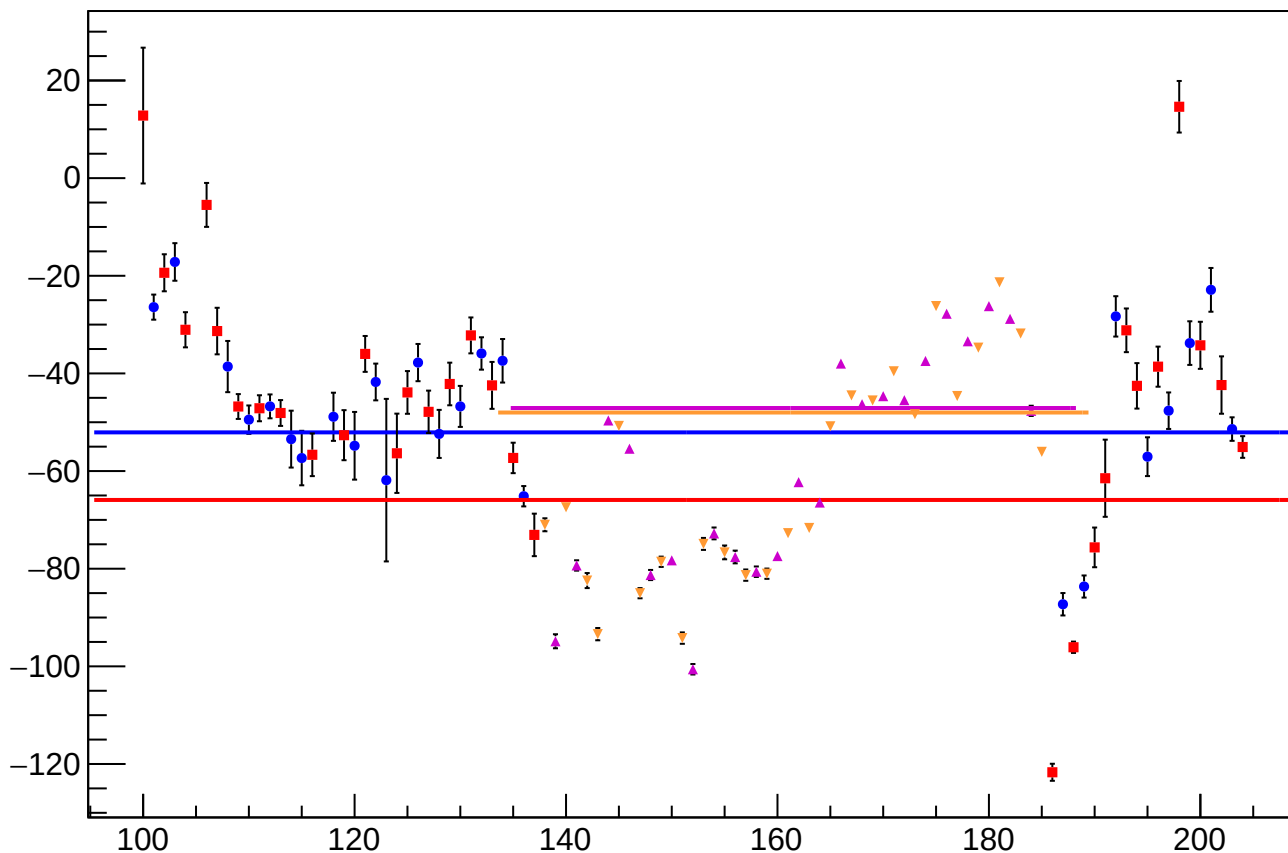
Right: -3.334 ± 0.333 $\chi^2/\text{NDF}: 407.9/54$

In: 0.430 ± 0.120 $\chi^2/\text{NDF}: 3610.0/47$

Out: 0.453 ± 0.120 $\chi^2/\text{NDF}: 4244.6/54$

All: 0.441 ± 0.085 $\chi^2/\text{NDF}: 7854.6/102$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected

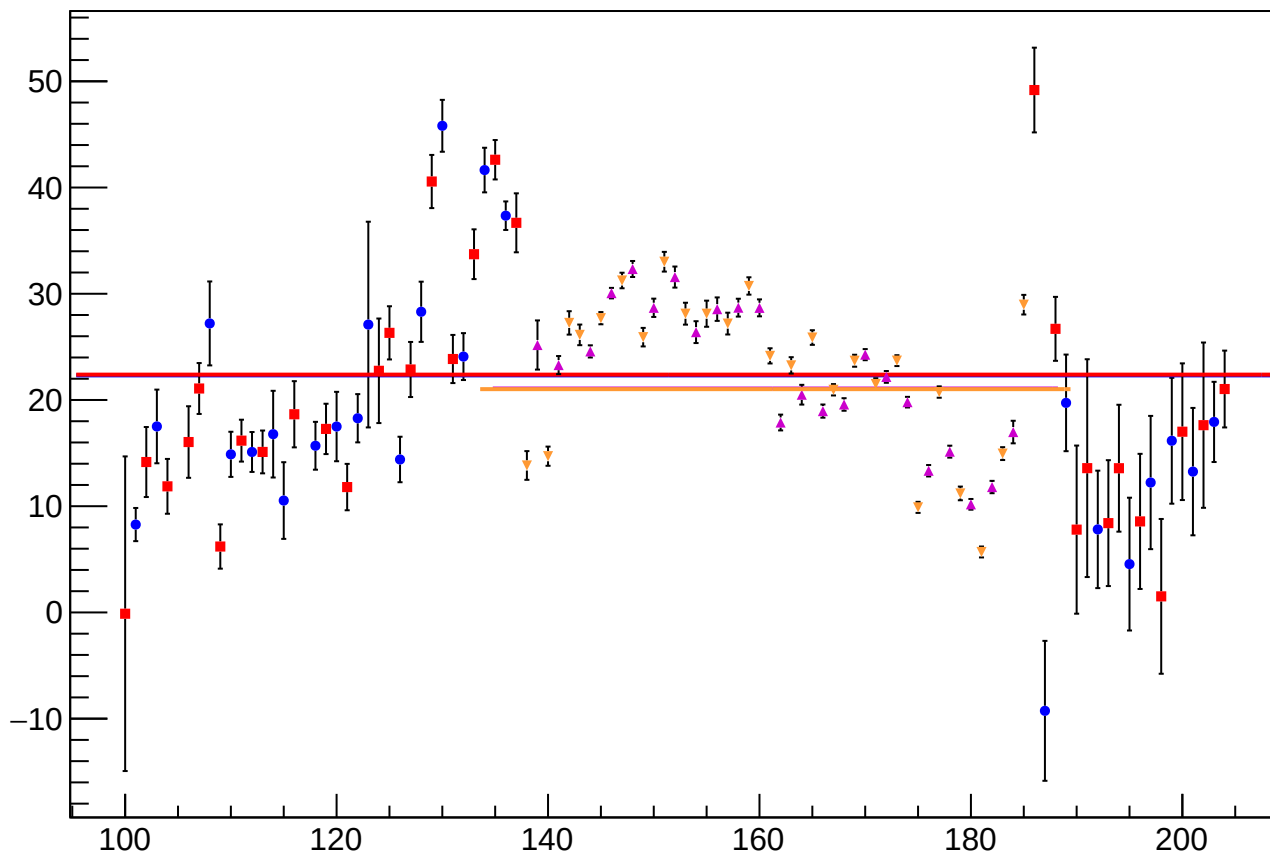


Right In: -52.076 ± 0.686 χ^2/NDF : 817.9/24
 Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24
 Right Out: -65.918 ± 0.586 χ^2/NDF : 3080.5/29
 Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47
 Right: -60.071 ± 0.446 χ^2/NDF : 4133.8/54
 In: -47.329 ± 0.152 χ^2/NDF : 16383.5/47
 Out: -49.173 ± 0.150 χ^2/NDF : 20902.9/54

All: -48.263 ± 0.106 χ^2/NDF : 37361.5/102

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.316 $\pm$ 0.537 χ^2 /NDF: 504.9/24

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.387 $\pm$ 0.538 χ^2 /NDF: 439.5/29

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

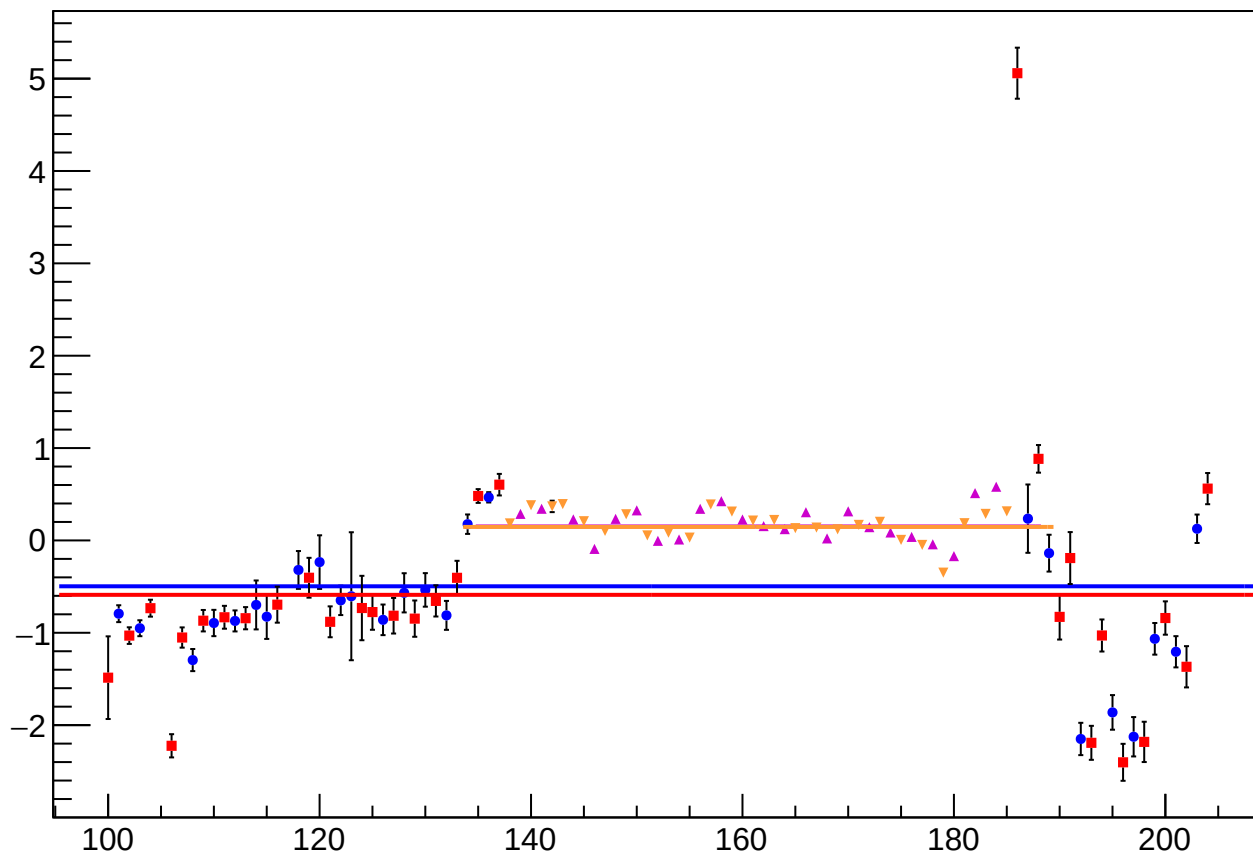
Right: 22.351 $\pm$ 0.380 χ^2 /NDF: 944.4/54

In: 21.157 $\pm$ 0.135 χ^2 /NDF:2683.1/47

Out: 21.105 $\pm$ 0.134 χ^2 /NDF:3244.8/54

All: 21.131 $\pm$ 0.095 χ^2 /NDF: 5928.0/102

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.497 ± 0.027 $\chi^2/\text{NDF}: 706.6/24$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.589 ± 0.027 $\chi^2/\text{NDF}: 1347.1/29$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

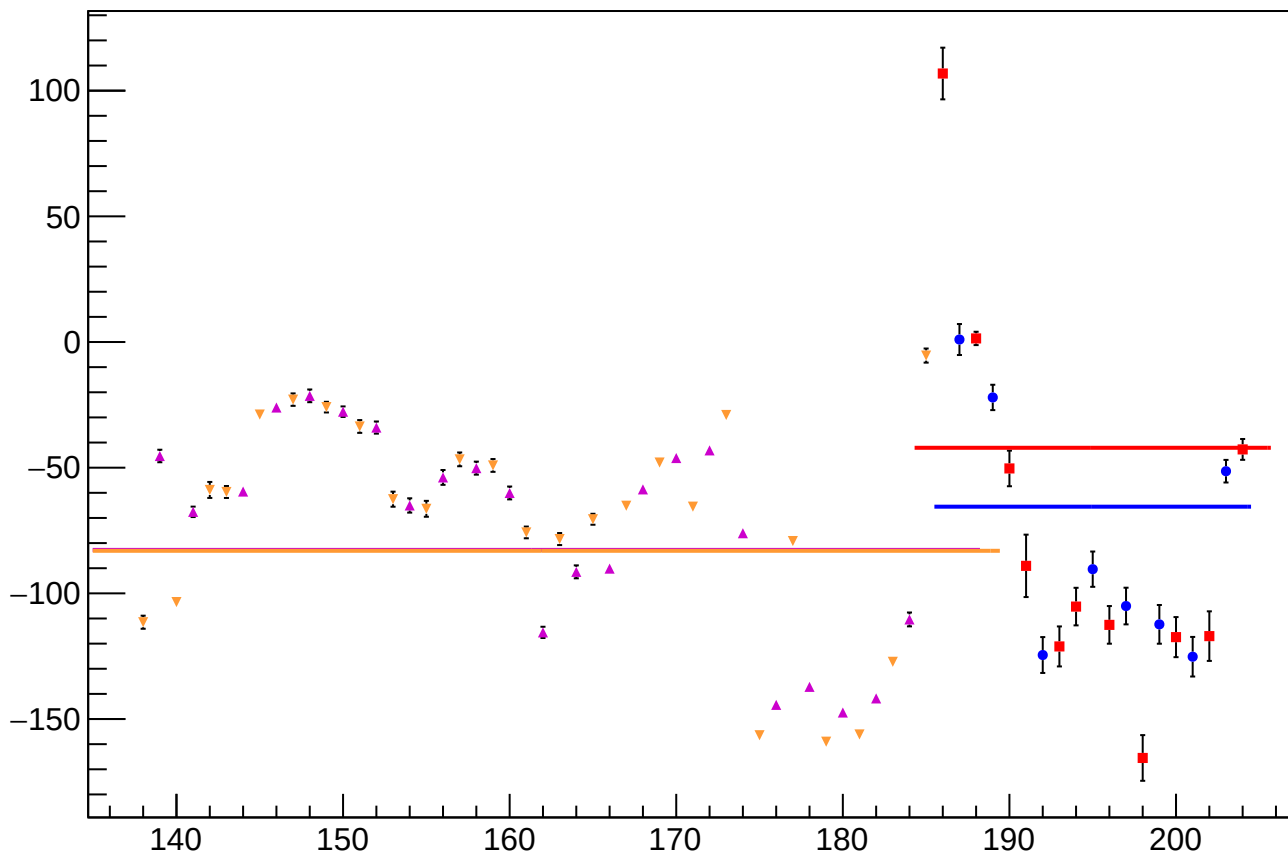
Right: -0.544 ± 0.019 $\chi^2/\text{NDF}: 2059.5/54$

In: 0.118 ± 0.006 $\chi^2/\text{NDF}: 2104.3/47$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2661.7/54$

All: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4767.3/102$

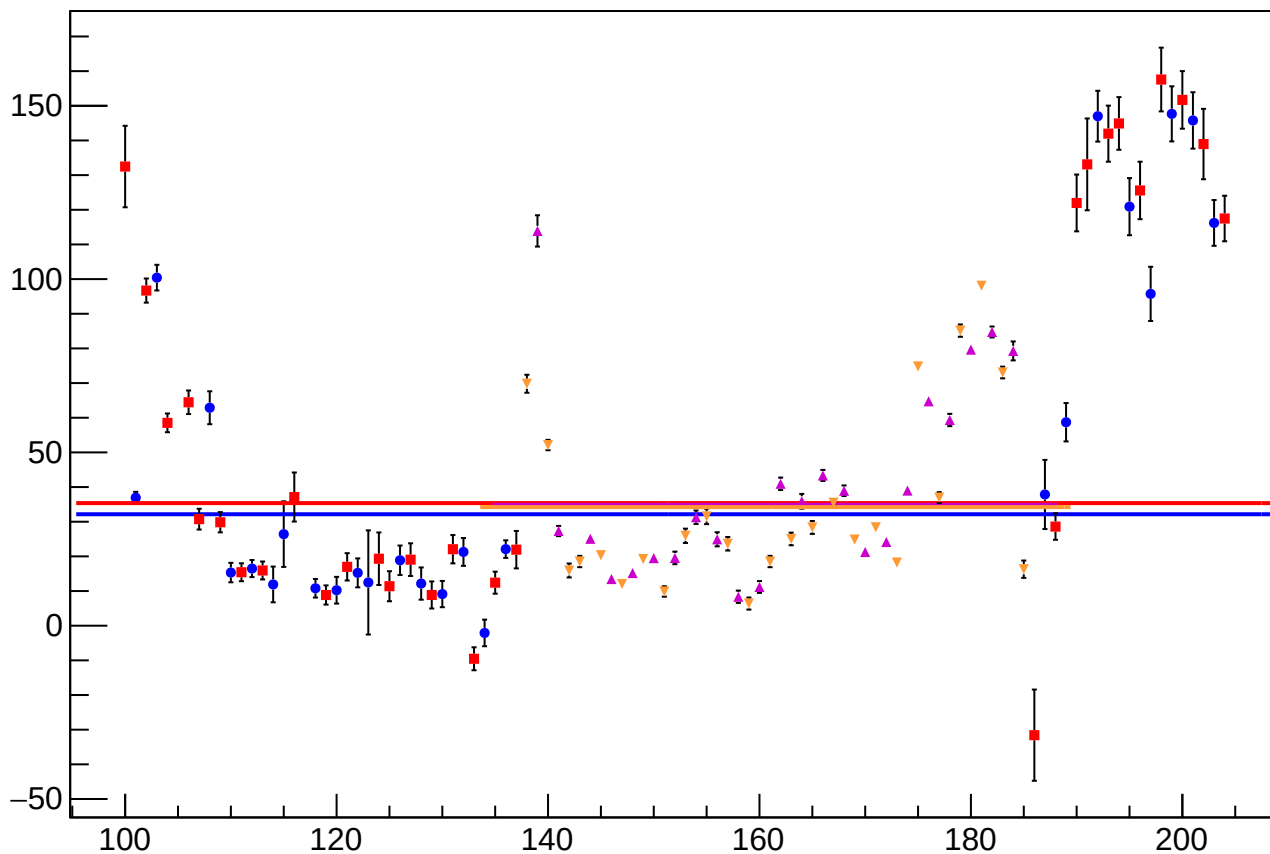
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -65.514 ± 2.199 $\chi^2/\text{NDF}: 405.3/7$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -42.081 ± 1.752 $\chi^2/\text{NDF}: 1084.3/10$
 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: -51.181 ± 1.370 $\chi^2/\text{NDF}: 1559.1/18$
 In: -82.119 ± 0.408 $\chi^2/\text{NDF}: 11305.7/30$
 Out: -80.976 ± 0.396 $\chi^2/\text{NDF}: 15421.0/35$
 All: -81.530 ± 0.284 $\chi^2/\text{NDF}: 26730.8/66$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.156 $\pm$ 0.772 χ^2 /NDF: 1782.5/24

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 35.371 $\pm$ 0.762 χ^2 /NDF: 2434.3/29

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

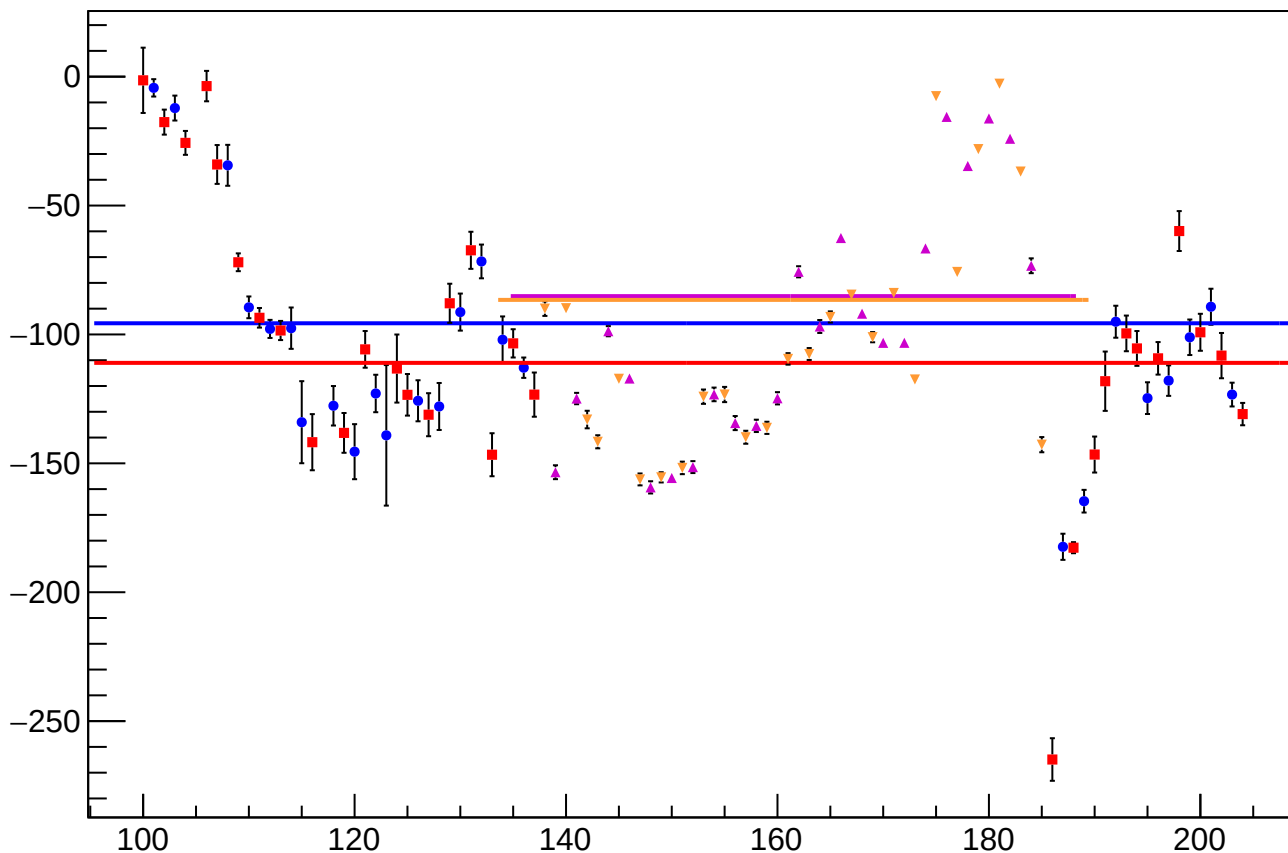
Right: 33.784 $\pm$ 0.542 χ^2 /NDF: 4225.6/54

In: 34.452 $\pm$ 0.303 χ^2 /NDF:6509.1/47

Out: 34.392 $\pm$ 0.295 χ^2 /NDF:8628.9/54

All: 34.421 $\pm$ 0.211 χ^2 /NDF: 15138.0/102

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -95.666 ± 1.149 χ^2/NDF : 1830.1/24

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -111.026 ± 1.012 χ^2/NDF : 3040.2/29

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

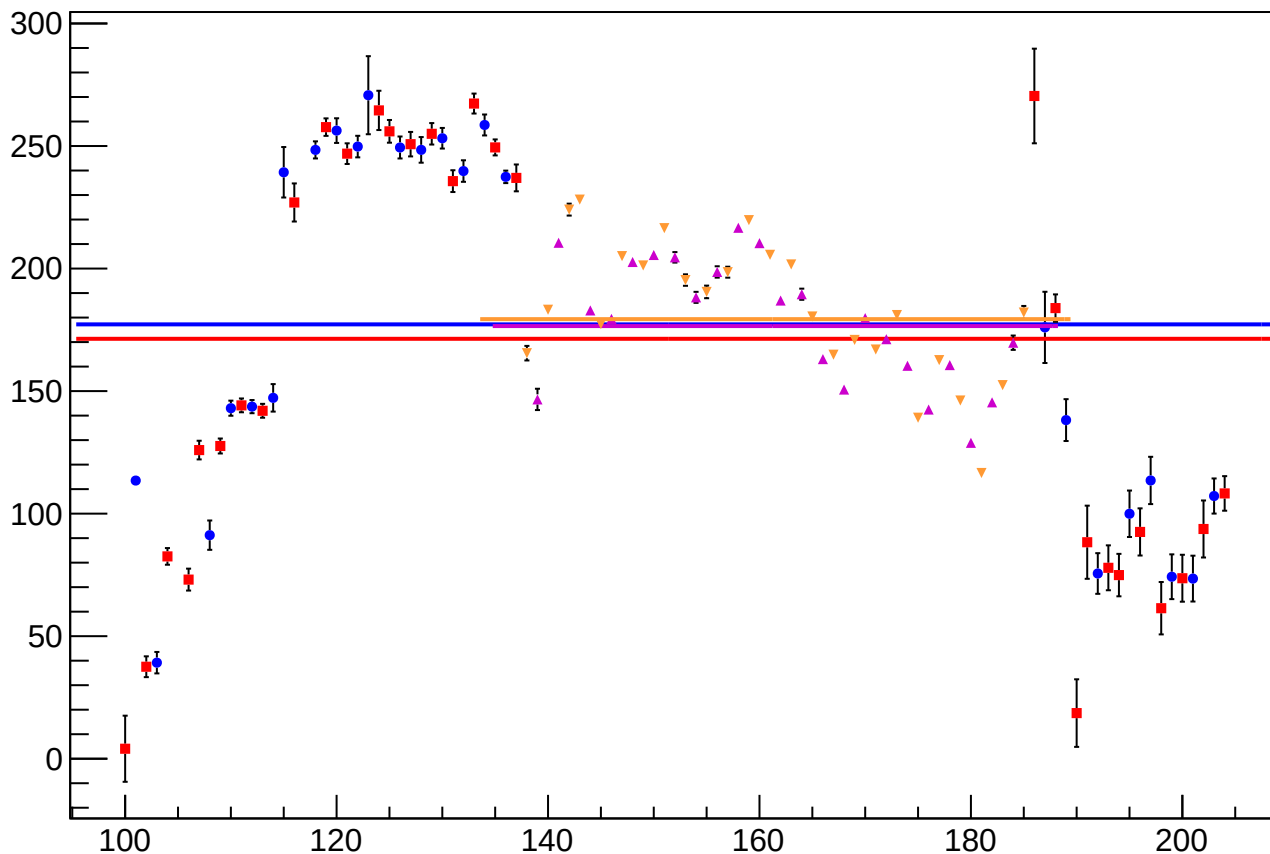
Right: -104.316 ± 0.760 χ^2/NDF : 4970.8/54

In: -86.349 ± 0.390 χ^2/NDF : 14745.7/47

Out: -90.015 ± 0.379 χ^2/NDF : 18056.7/54

All: -88.237 ± 0.272 χ^2/NDF : 32847.9/102

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 177.226 $\pm$ 0.884 χ^2 /NDF: 5990.7/24

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF:5982.2/24

Right Out: 171.339 $\pm$ 0.878 χ^2 /NDF: 7200.8/29

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

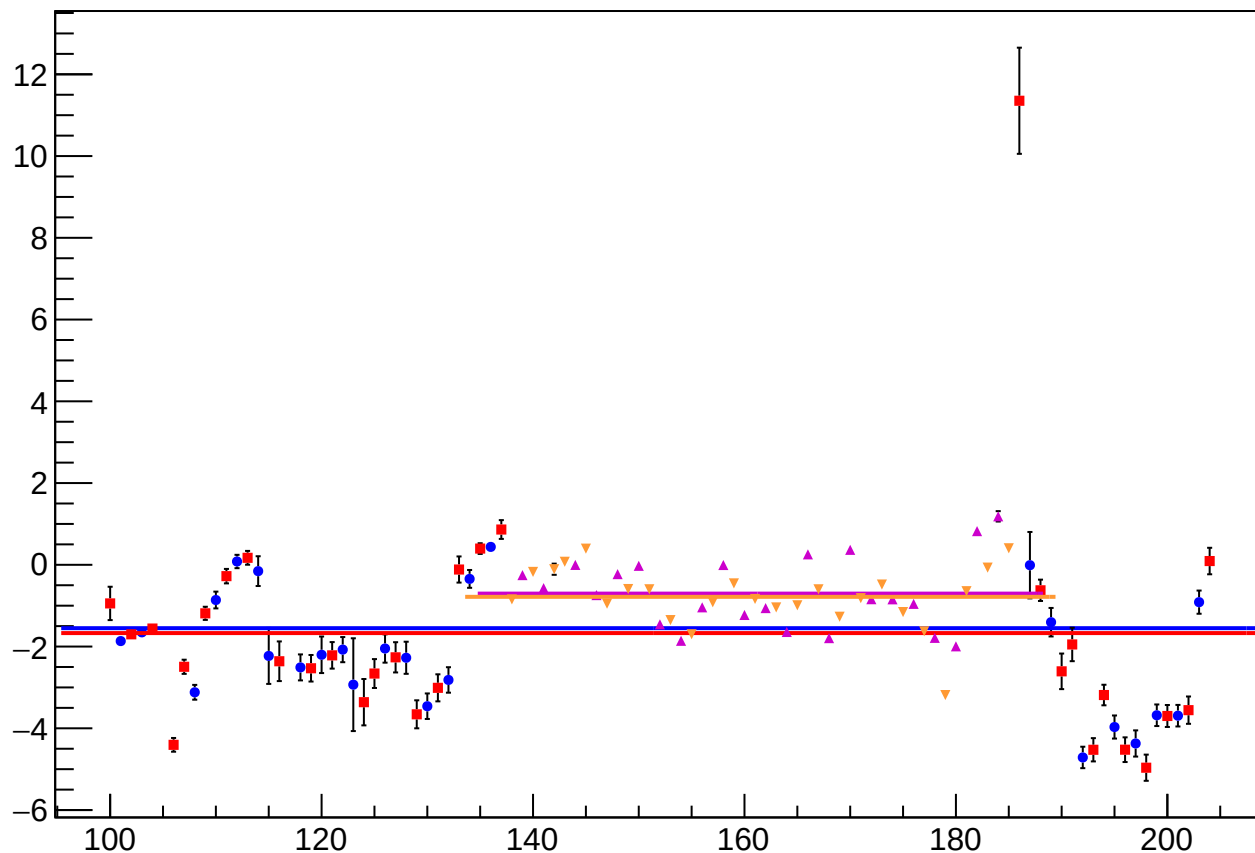
Right: 174.262 $\pm$ 0.623 χ^2 /NDF: 13213.9/54

In: 176.635 $\pm$ 0.342 χ^2 /NDF:10417.2/47

Out: 178.195 $\pm$ 0.335 χ^2 /NDF:13254.4/54

All: 177.433 $\pm$ 0.239 χ^2 /NDF: 23682.2/102

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.550 ± 0.044 $\chi^2/\text{NDF}: 1110.9/24$

Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$

Right Out: -1.670 ± 0.041 $\chi^2/\text{NDF}: 1529.6/29$

Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$

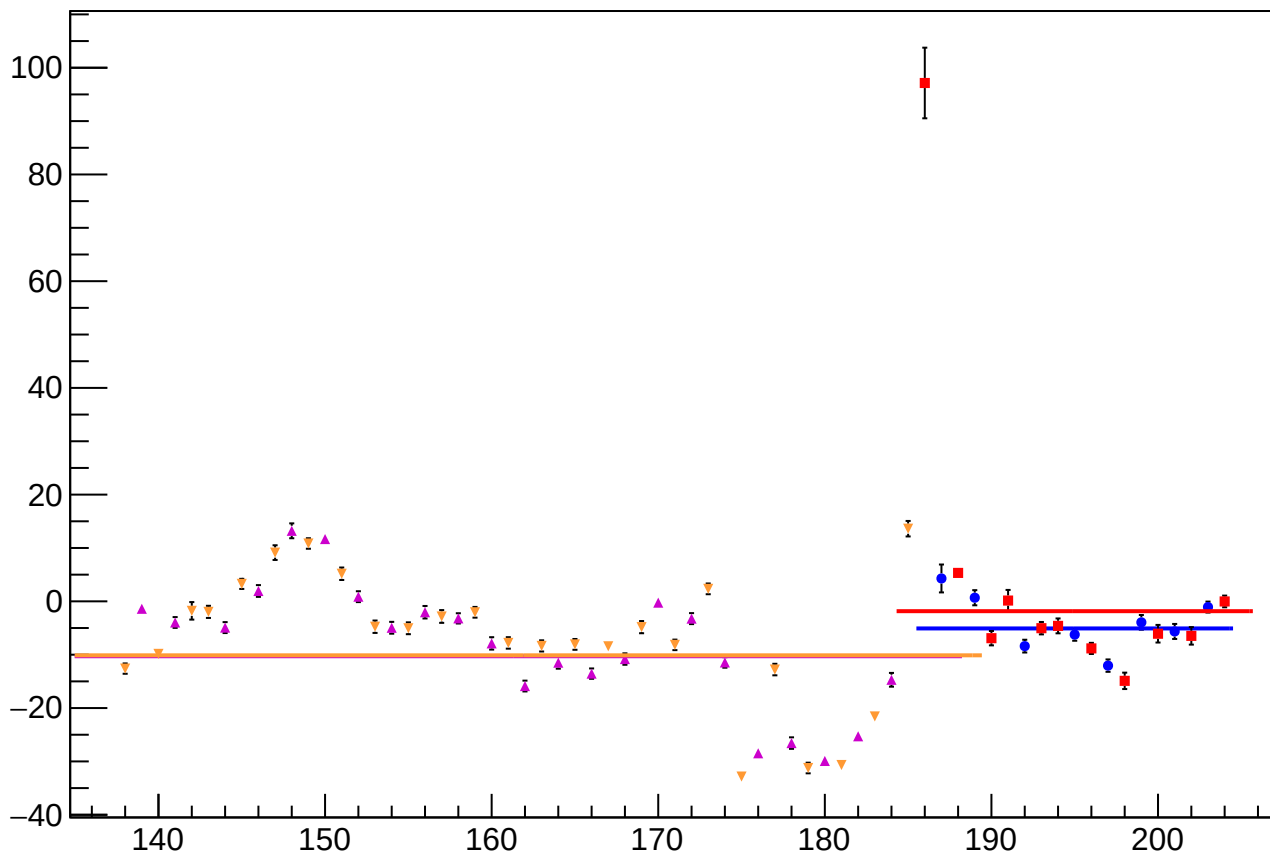
Right: -1.614 ± 0.030 $\chi^2/\text{NDF}: 2644.4/54$

In: -0.814 ± 0.016 $\chi^2/\text{NDF}: 3841.1/47$

Out: -0.906 ± 0.015 $\chi^2/\text{NDF}: 3696.4/54$

All: -0.861 ± 0.011 $\chi^2/\text{NDF}: 7555.0/102$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.080 ± 0.456 $\chi^2/\text{NDF}: 90.0/7$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.844 ± 0.367 $\chi^2/\text{NDF}: 510.1/10$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

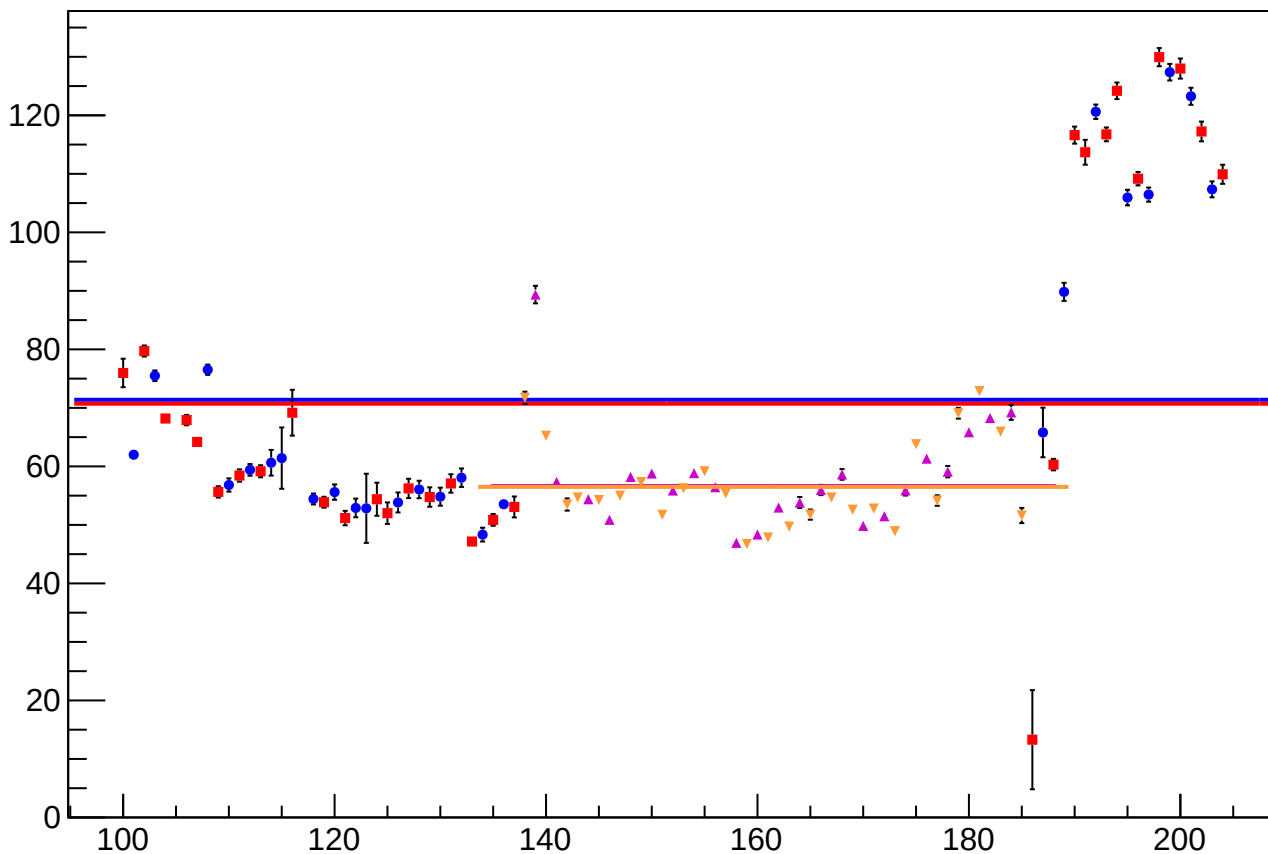
Right: -3.115 ± 0.286 $\chi^2/\text{NDF}: 630.7/18$

In: -9.411 ± 0.187 $\chi^2/\text{NDF}: 3649.5/30$

Out: -8.199 ± 0.177 $\chi^2/\text{NDF}: 5039.4/35$

All: -8.769 ± 0.128 $\chi^2/\text{NDF}: 8711.1/66$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 71.383+/-0.234 χ^2/NDF : 9384.6/24

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 70.709+/-0.216 χ^2/NDF : 12930.8/29

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

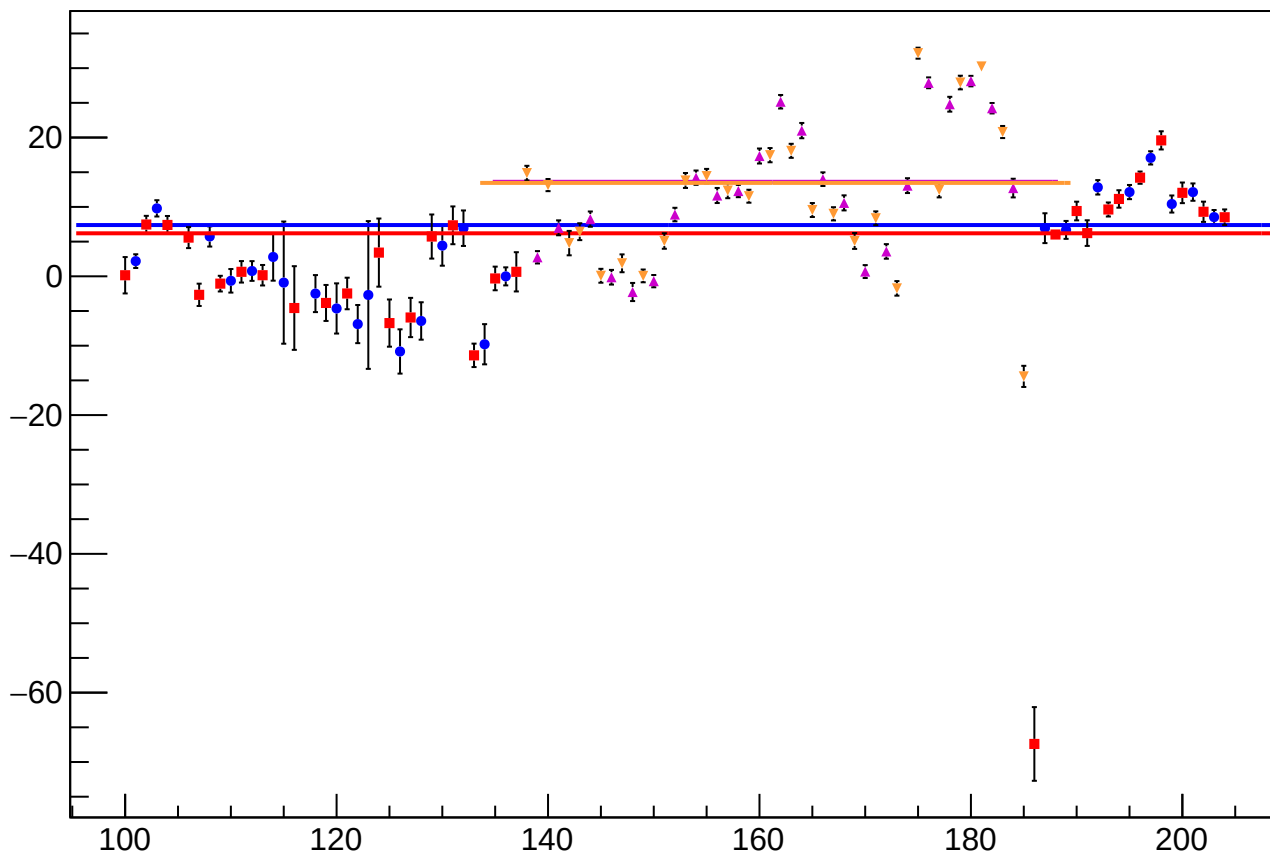
Right: 71.019+/-0.159 χ^2/NDF : 22319.9/54

In: 61.547+/-0.135 χ^2/NDF :13649.4/47

Out: 61.493+/-0.128 χ^2/NDF :17712.8/54

All: 61.519+/-0.093 χ^2/NDF : 31362.3/102

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.388 ± 0.305 χ^2/NDF : 433.4/24

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.198 ± 0.256 χ^2/NDF : 737.5/29

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

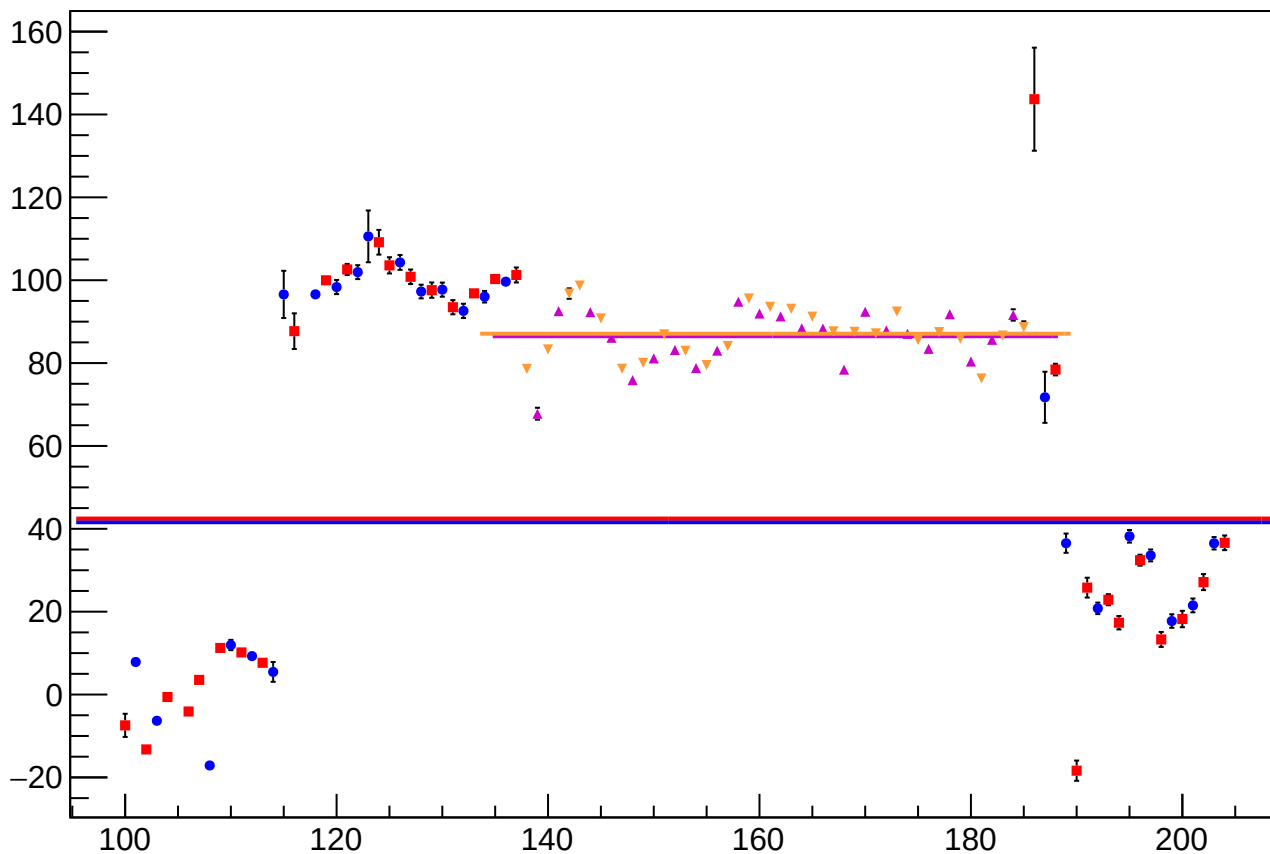
Right: 6.689 ± 0.196 χ^2/NDF : 1179.9/54

In: 11.684 ± 0.170 χ^2/NDF : 3037.4/47

Out: 10.677 ± 0.158 χ^2/NDF : 3972.1/54

All: 11.146 ± 0.116 χ^2/NDF : 7028.3/102

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.592 ± 0.271 $\chi^2/\text{NDF}: 25470.5/24$

Left Out: 87.087 ± 0.179 $\chi^2/\text{NDF}: 1085.8/24$

Right Out: 42.476 ± 0.255 $\chi^2/\text{NDF}: 30756.8/29$

Left In: 86.482 ± 0.185 $\chi^2/\text{NDF}: 1003.2/22$

Left: 86.794 ± 0.129 $\chi^2/\text{NDF}: 2094.5/47$

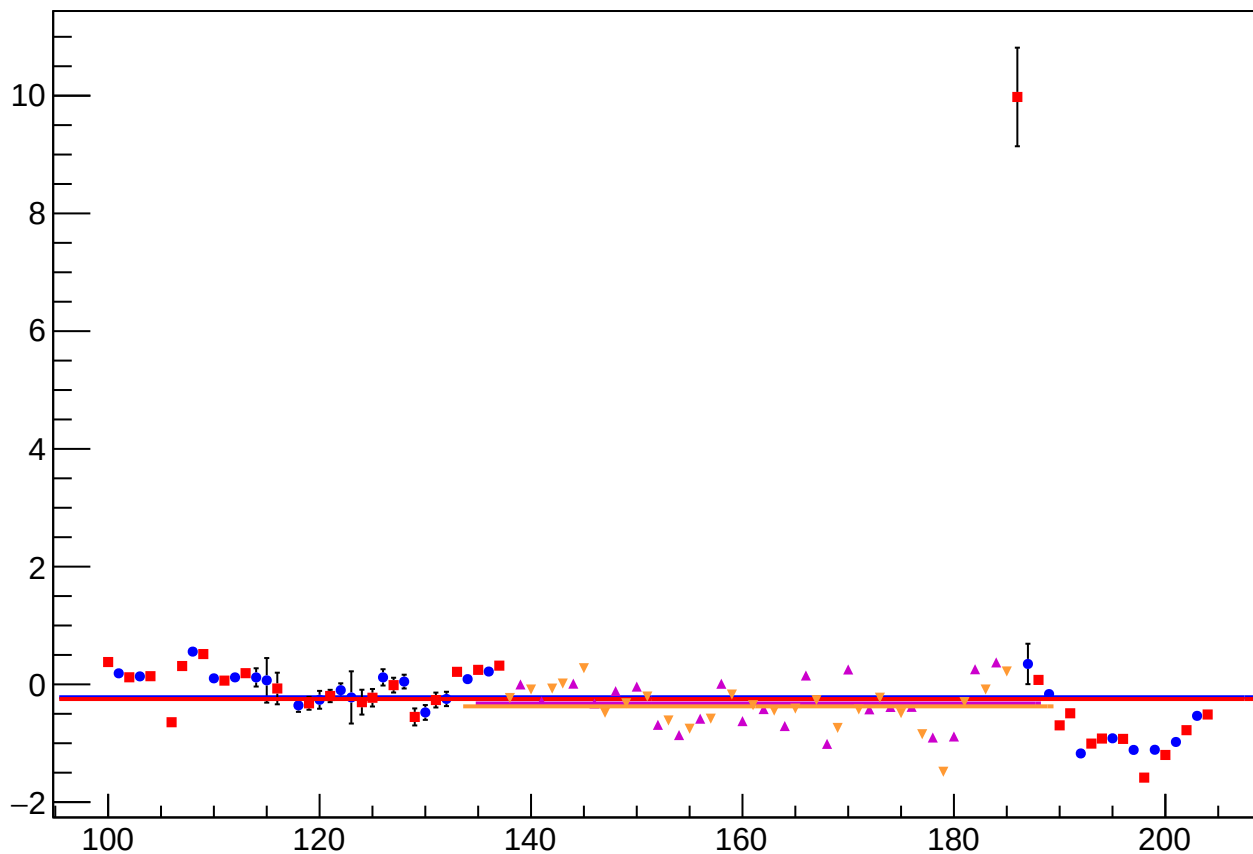
Right: 42.062 ± 0.186 $\chi^2/\text{NDF}: 56233.0/54$

In: 72.286 ± 0.153 $\chi^2/\text{NDF}: 45171.8/47$

Out: 72.315 ± 0.146 $\chi^2/\text{NDF}: 52390.8/54$

All: 72.301 ± 0.106 $\chi^2/\text{NDF}: 97562.6/102$

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.219 ± 0.011 χ^2/NDF : 2876.8/24

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.249 ± 0.010 χ^2/NDF : 3328.1/29

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

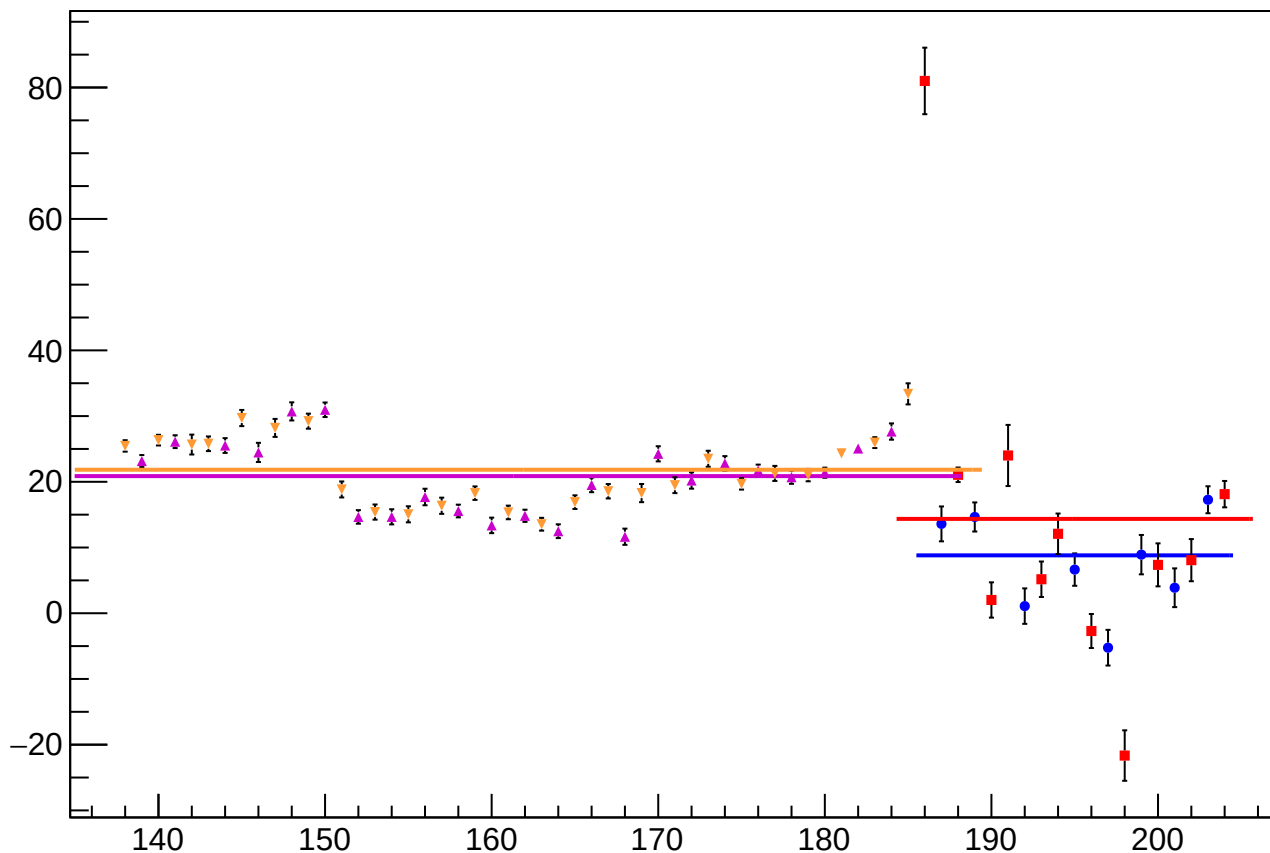
Right: -0.235 ± 0.008 χ^2/NDF : 6208.9/54

In: -0.288 ± 0.007 χ^2/NDF : 5219.7/47

Out: -0.326 ± 0.006 χ^2/NDF : 5085.8/54

All: -0.308 ± 0.005 χ^2/NDF : 10322.7/102

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.808 ± 0.895 $\chi^2/\text{NDF}: 65.7/7$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 14.357 ± 0.718 $\chi^2/\text{NDF}: 390.9/10$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

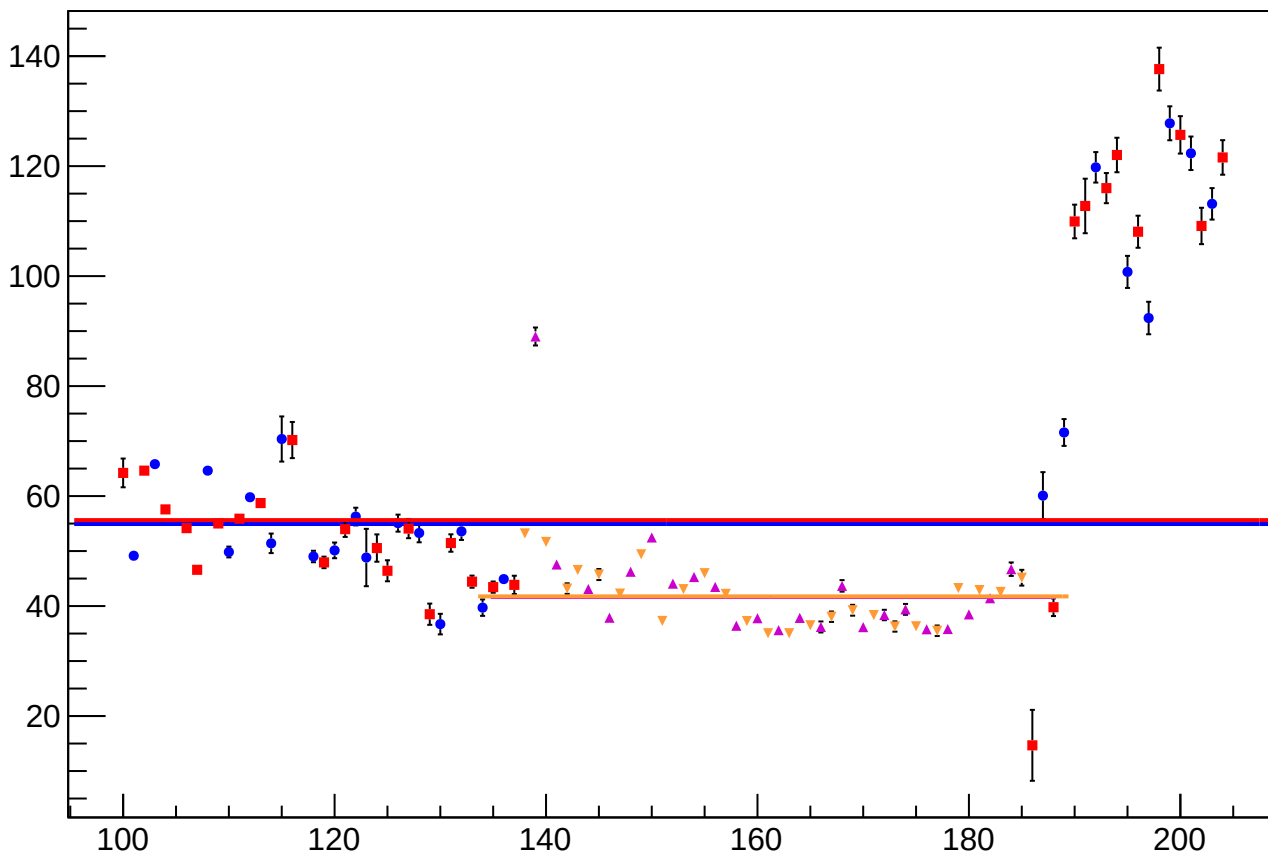
Right: 12.184 ± 0.560 $\chi^2/\text{NDF}: 480.0/18$

In: 20.199 ± 0.211 $\chi^2/\text{NDF}: 813.9/30$

Out: 21.248 ± 0.201 $\chi^2/\text{NDF}: 1015.1/35$

All: 20.747 ± 0.146 $\chi^2/\text{NDF}: 1842.0/66$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 54.920+/-0.207 χ^2 /NDF: 3745.6/24

Left Out: 41.757+/-0.165 χ^2 /NDF:1015.7/24

Right Out: 55.630+/-0.220 χ^2 /NDF: 4391.7/29

Left In: 41.643+/-0.174 χ^2 /NDF:1611.0/22

Left: 41.703+/-0.120 χ^2 /NDF: 2626.9/47

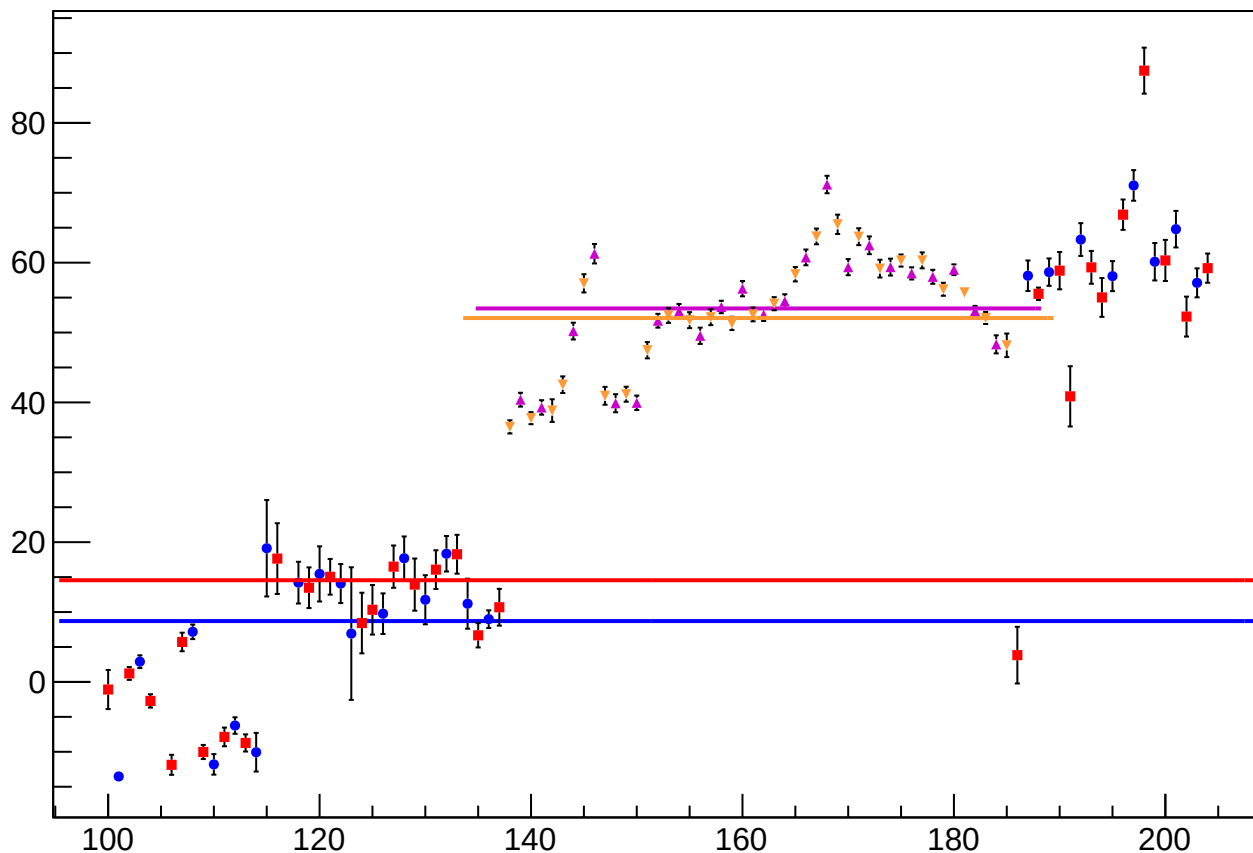
Right: 55.253+/-0.151 χ^2 /NDF: 8142.8/54

In: 47.136+/-0.133 χ^2 /NDF:7771.7/47

Out: 46.770+/-0.132 χ^2 /NDF:7950.7/54

All: 46.952+/-0.094 χ^2 /NDF: 15726.2/102

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 8.708 ± 0.331 $\chi^2/\text{NDF}: 6174.6/24$

Left Out: 52.076 ± 0.210 $\chi^2/\text{NDF}: 1450.9/24$

Right Out: 14.553 ± 0.322 $\chi^2/\text{NDF}: 7163.5/29$

Left In: 53.447 ± 0.215 $\chi^2/\text{NDF}: 1169.0/22$

Left: 52.744 ± 0.150 $\chi^2/\text{NDF}: 2640.6/47$

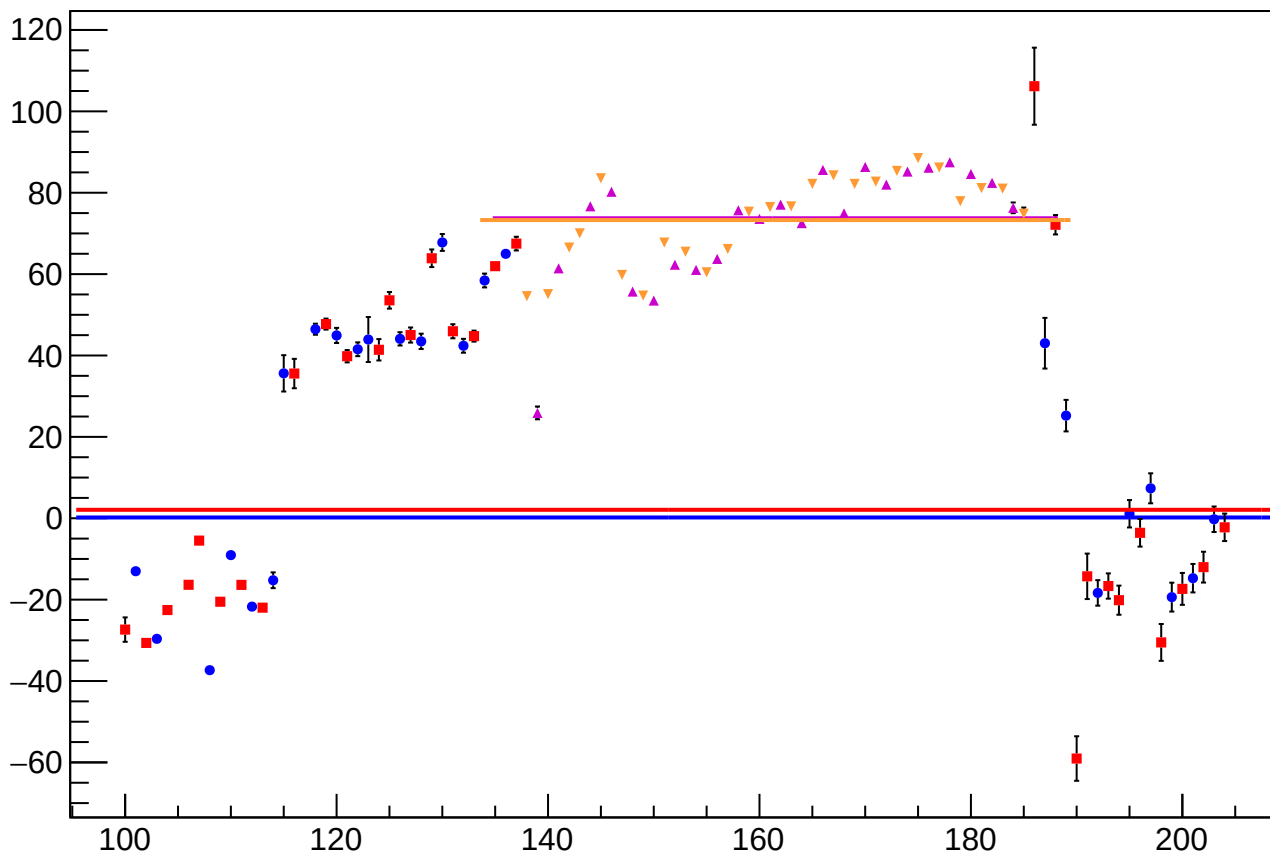
Right: 11.709 ± 0.231 $\chi^2/\text{NDF}: 13498.0/54$

In: 40.153 ± 0.181 $\chi^2/\text{NDF}: 20167.8/47$

Out: 40.900 ± 0.176 $\chi^2/\text{NDF}: 18123.5/54$

All: 40.536 ± 0.126 $\chi^2/\text{NDF}: 38300.0/102$

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.194+/-0.243 χ^2/NDF : 18396.6/24

Left Out: 73.284+/-0.187 χ^2/NDF : 3144.2/24

Right Out: 2.079+/-0.260 χ^2/NDF : 16701.6/29

Left In: 73.730+/-0.194 χ^2/NDF : 3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

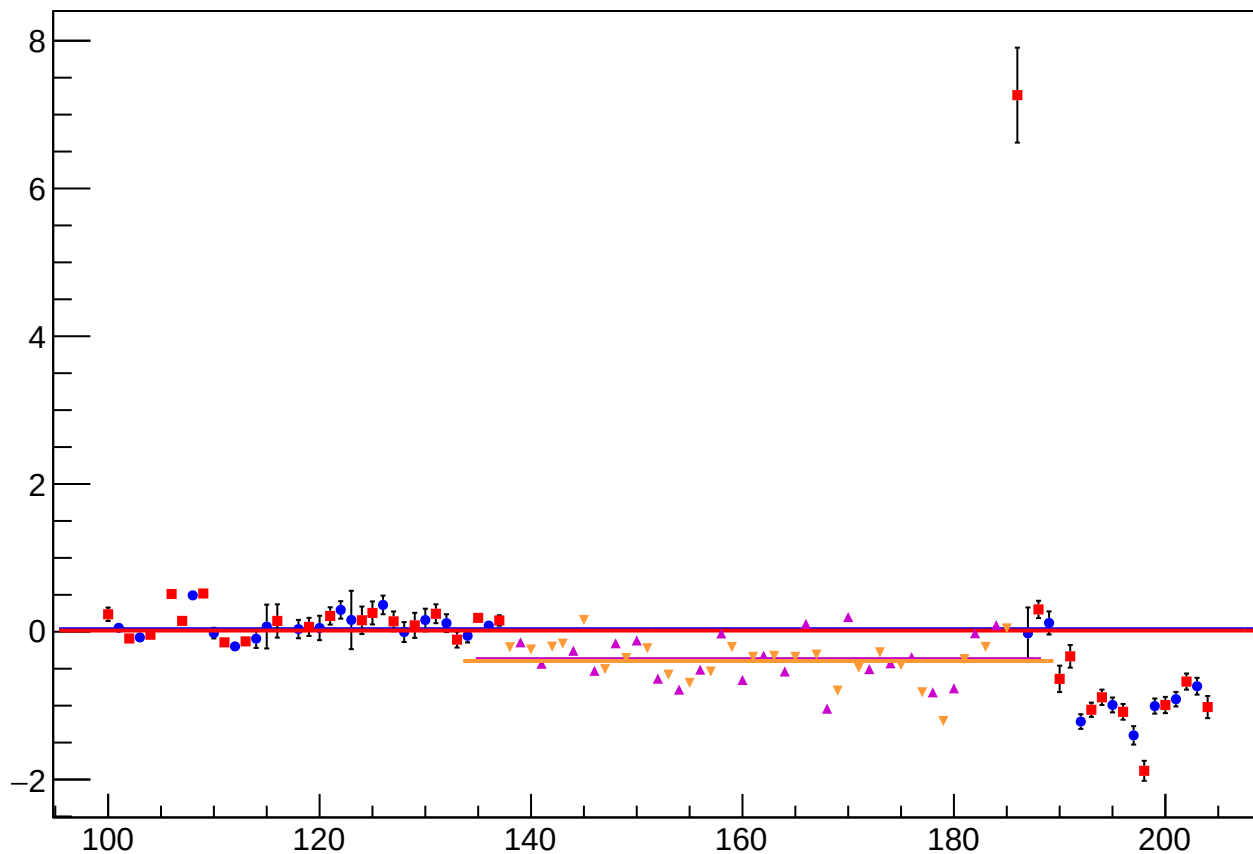
Right: 1.075+/-0.177 χ^2/NDF : 35126.2/54

In: 45.055+/-0.152 χ^2/NDF : 78006.1/47

Out: 48.980+/-0.152 χ^2/NDF : 69416.2/54

All: 47.019+/-0.107 χ^2/NDF : 147756.9/102

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.035 ± 0.011 χ^2/NDF : 1078.4/24

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: 0.017 ± 0.011 χ^2/NDF : 1259.2/29

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

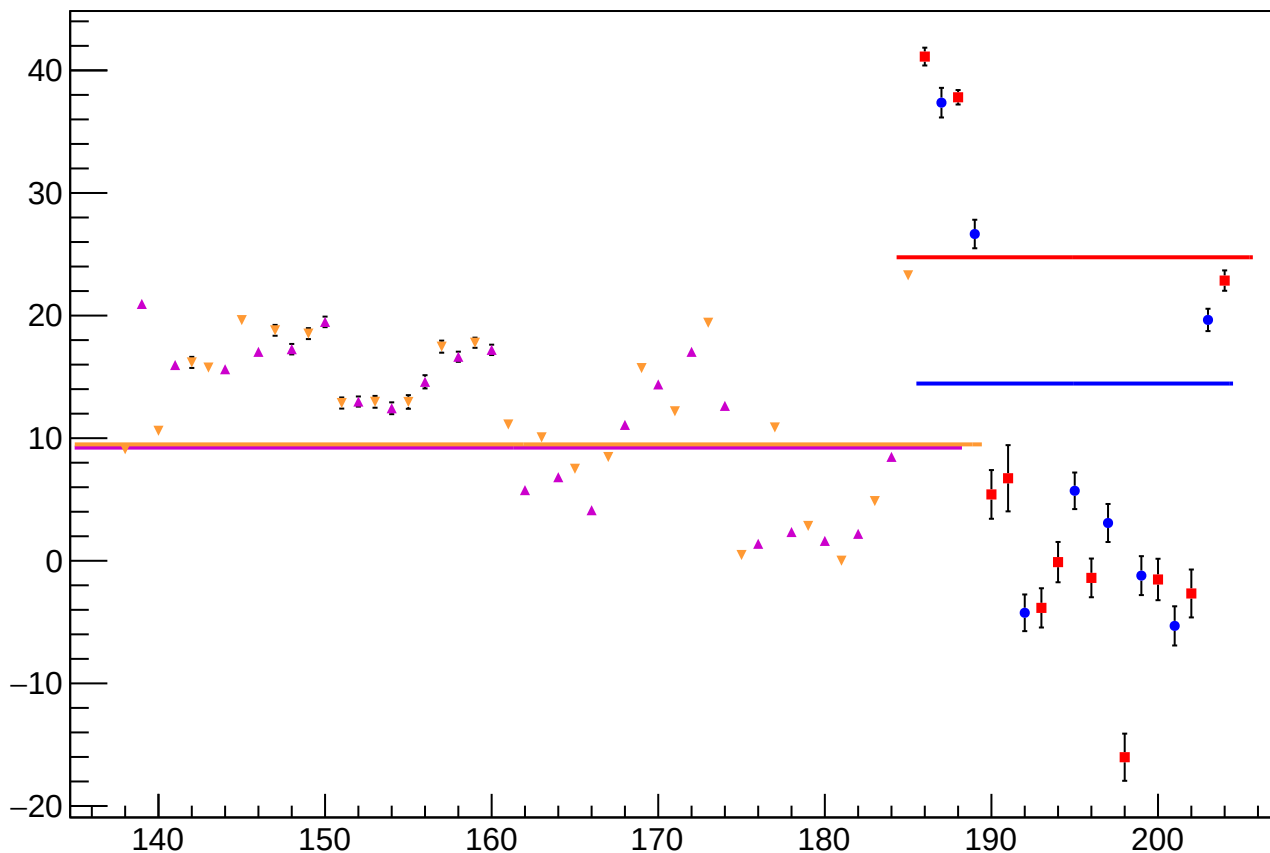
Right: 0.026 ± 0.008 χ^2/NDF : 2339.1/54

In: -0.209 ± 0.007 χ^2/NDF : 3259.3/47

Out: -0.233 ± 0.007 χ^2/NDF : 3129.4/54

All: -0.221 ± 0.005 χ^2/NDF : 6395.2/102

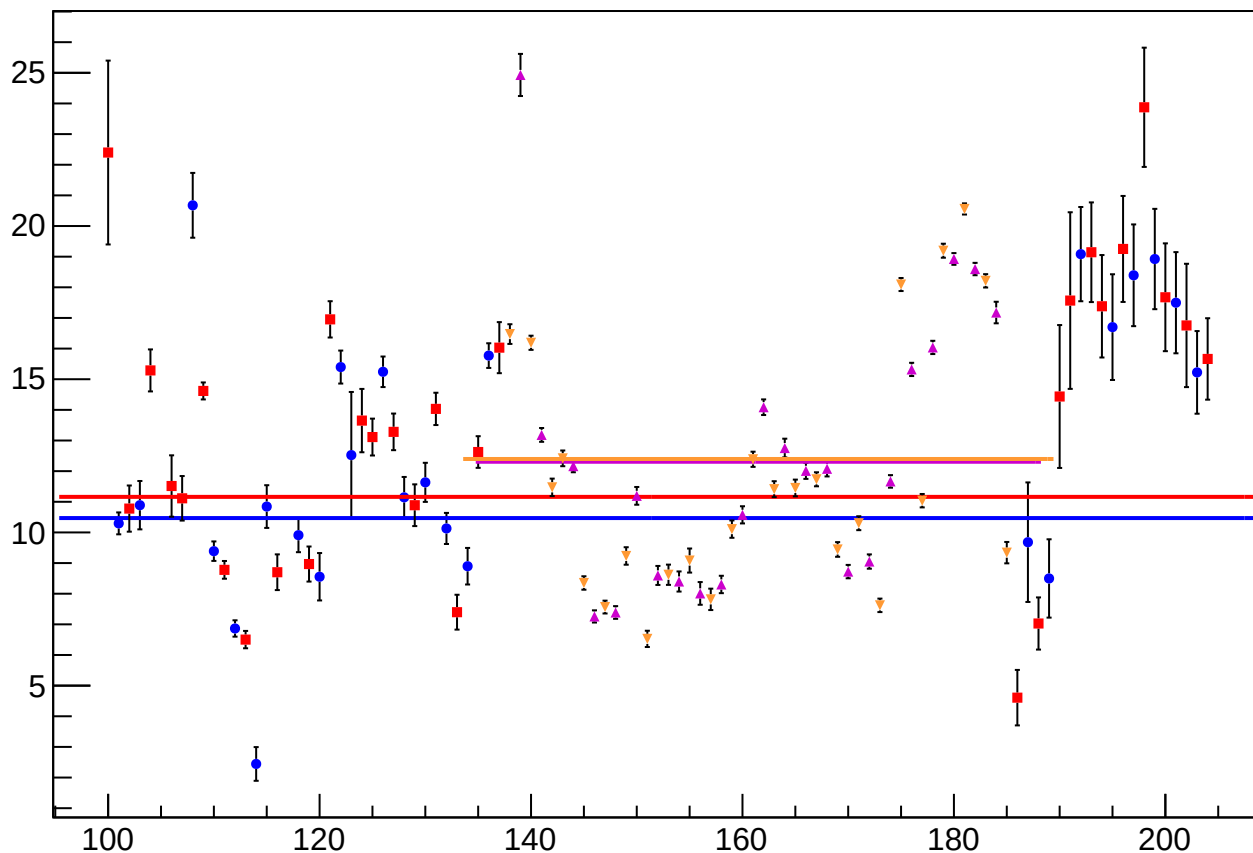
reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.457 ± 0.460 $\chi^2/\text{NDF}: 996.8/7$
 Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$
 Right Out: 24.755 ± 0.340 $\chi^2/\text{NDF}: 2849.9/10$
 Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$
 Right: 21.111 ± 0.273 $\chi^2/\text{NDF}: 4170.9/18$
 In: 9.327 ± 0.062 $\chi^2/\text{NDF}: 11859.7/30$
 Out: 9.974 ± 0.060 $\chi^2/\text{NDF}: 17407.7/35$
 All: 9.662 ± 0.043 $\chi^2/\text{NDF}: 29322.9/66$

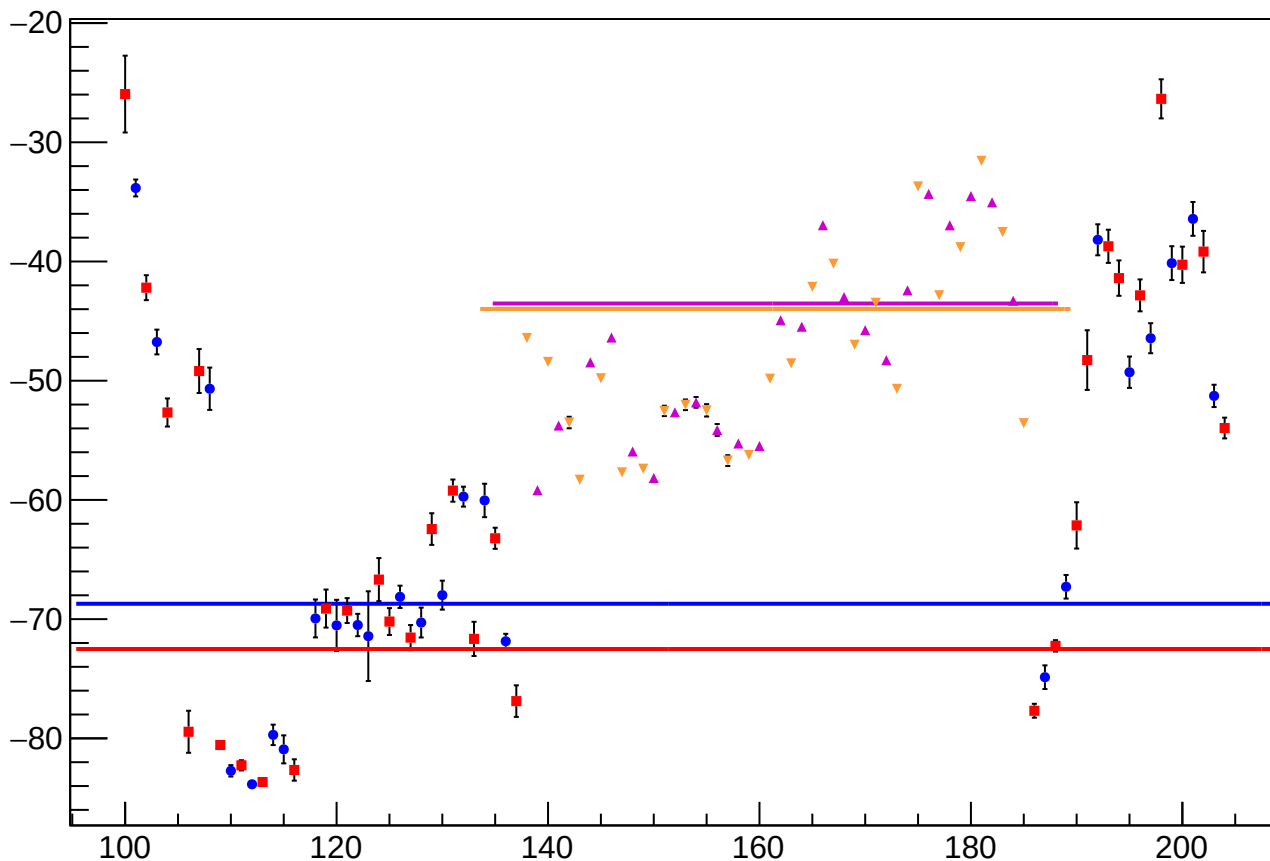
reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.469 ± 0.117 $\chi^2/\text{NDF}: 996.5/24$
 Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$
 Right Out: 11.161 ± 0.112 $\chi^2/\text{NDF}: 1035.3/29$
 Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$
 Right: 10.828 ± 0.081 $\chi^2/\text{NDF}: 2050.0/54$
 In: 12.011 ± 0.047 $\chi^2/\text{NDF}: 6805.6/47$
 Out: 12.195 ± 0.045 $\chi^2/\text{NDF}: 8679.2/54$
 All: 12.106 ± 0.033 $\chi^2/\text{NDF}: 15492.8/102$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.710 ± 0.179 χ^2/NDF : 8264.6/24

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -72.506 ± 0.154 χ^2/NDF : 7618.5/29

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

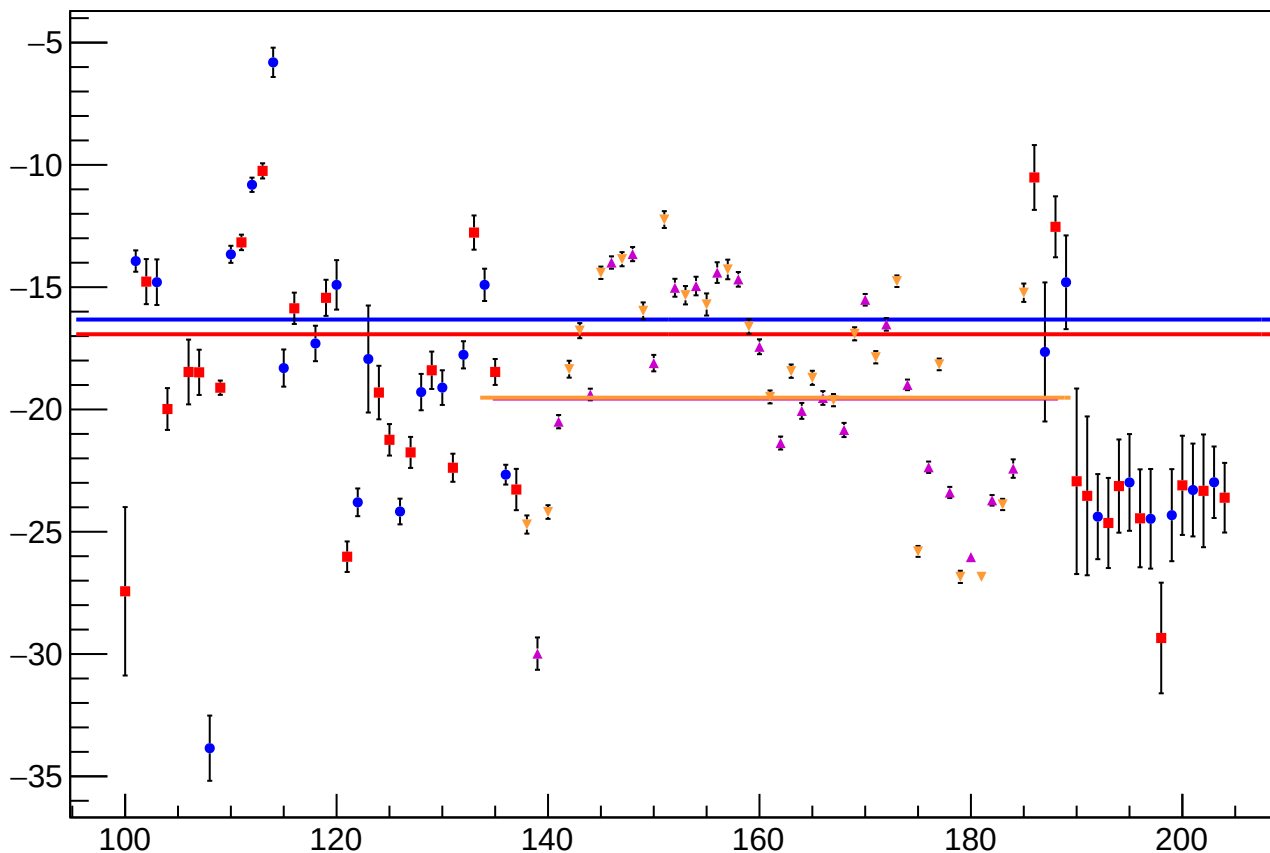
Right: -70.887 ± 0.117 χ^2/NDF : 16142.3/54

In: -46.337 ± 0.060 χ^2/NDF : 41205.8/47

Out: -47.955 ± 0.057 χ^2/NDF : 54899.8/54

All: -47.177 ± 0.041 χ^2/NDF : 96487.2/102

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected

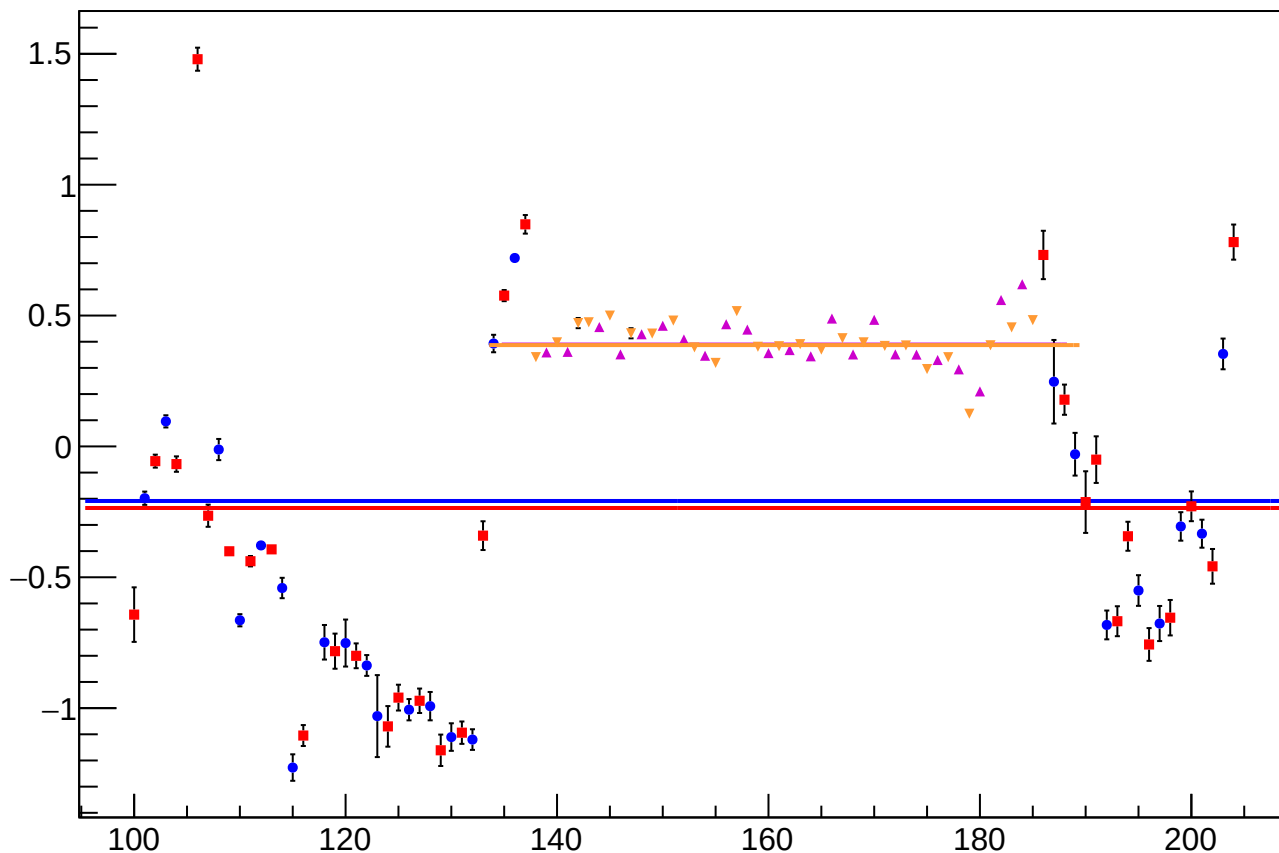


Right In: -16.323 ± 0.130 $\chi^2/\text{NDF}: 1725.8/24$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.925 ± 0.125 $\chi^2/\text{NDF}: 1366.4/29$
 Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$
 Right: -16.637 ± 0.090 $\chi^2/\text{NDF}: 3103.3/54$
 In: -19.030 ± 0.052 $\chi^2/\text{NDF}: 6552.4/47$
 Out: -19.087 ± 0.051 $\chi^2/\text{NDF}: 8243.5/54$

All: -19.059 ± 0.037 $\chi^2/\text{NDF}: 14796.5/102$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.209 ± 0.007 χ^2/NDF : 6589.6/24

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.235 ± 0.007 χ^2/NDF : 6751.4/29

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

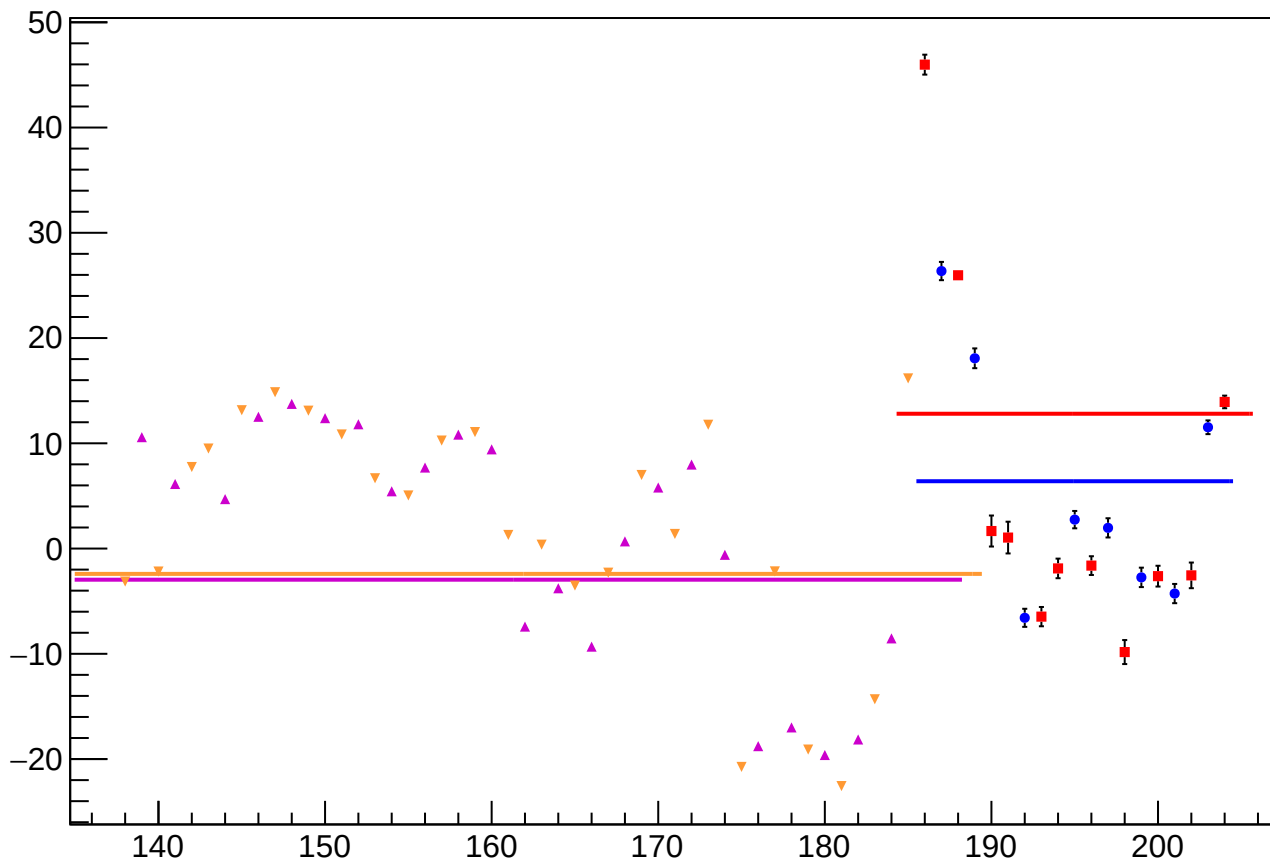
Right: -0.223 ± 0.005 χ^2/NDF : 13348.4/54

In: 0.319 ± 0.002 χ^2/NDF : 13995.4/47

Out: 0.309 ± 0.002 χ^2/NDF : 15151.8/54

All: 0.314 ± 0.002 χ^2/NDF : 29154.6/102

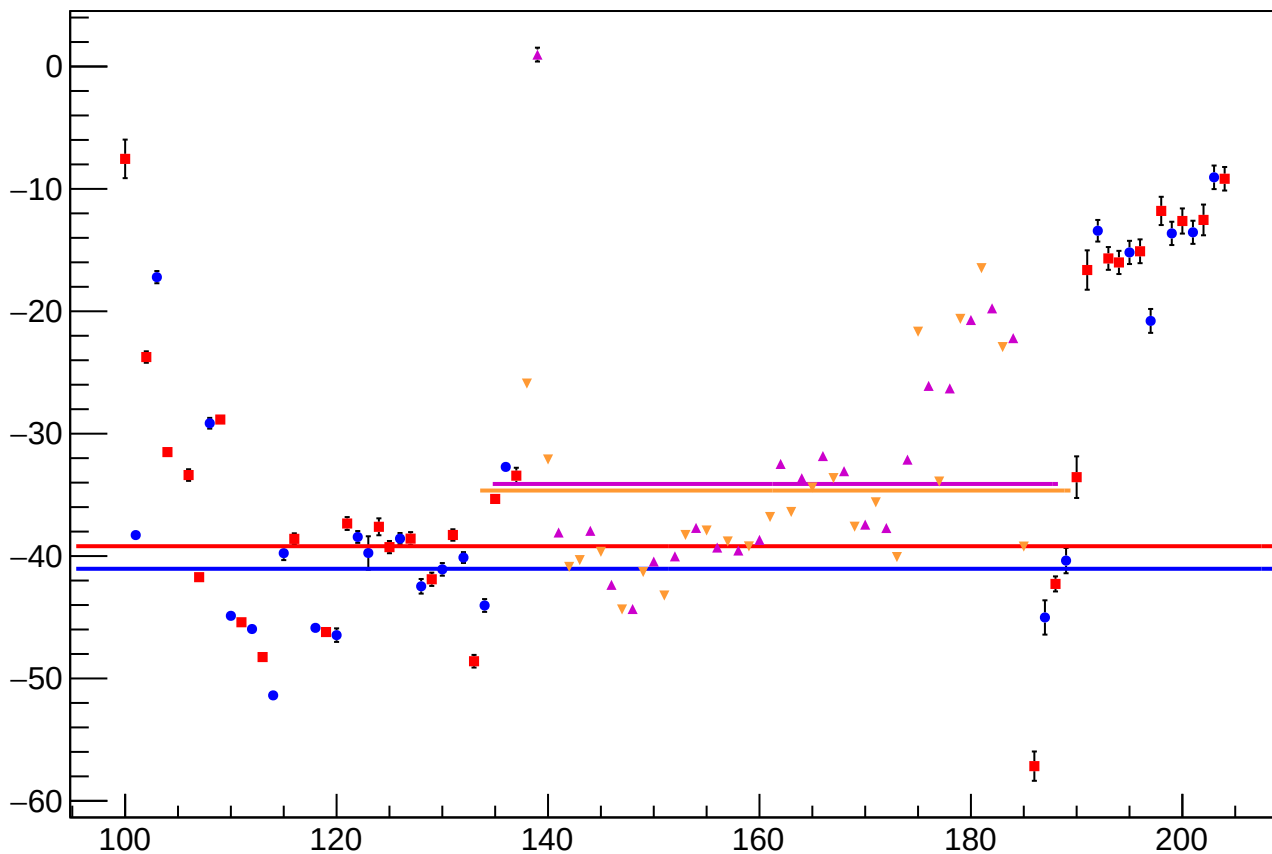
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.397 ± 0.299 $\chi^2/\text{NDF}: 1250.9/7$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 12.808 ± 0.247 $\chi^2/\text{NDF}: 4044.6/10$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 10.200 ± 0.191 $\chi^2/\text{NDF}: 5568.7/18$
 In: -2.654 ± 0.054 $\chi^2/\text{NDF}: 48122.2/30$
 Out: -1.745 ± 0.052 $\chi^2/\text{NDF}: 64029.9/35$
 All: -2.179 ± 0.037 $\chi^2/\text{NDF}: 112300.4/66$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: -34.390 ± 0.030 $\chi^2/\text{NDF} = 63806.0/47$

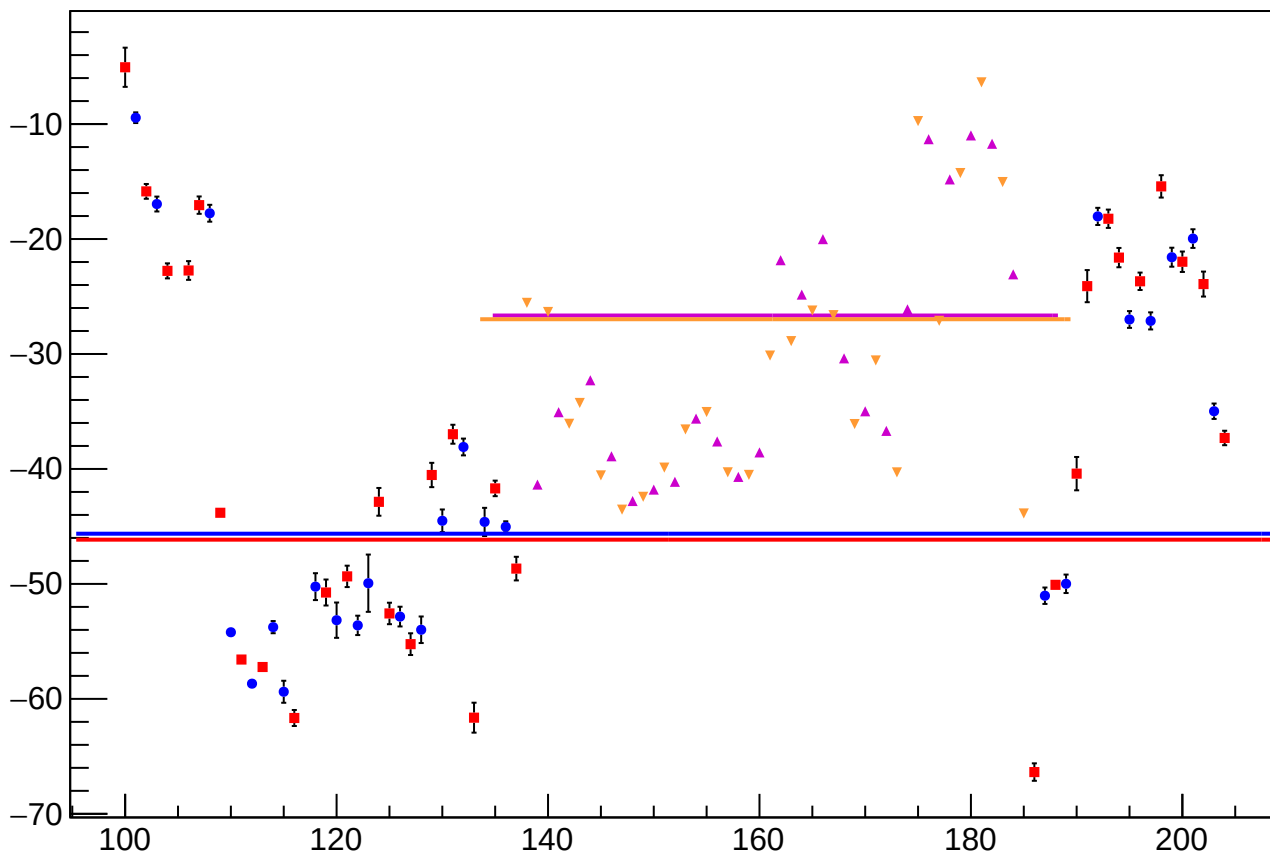
Right: -40.048 ± 0.052 $\chi^2/\text{NDF} = 28430.7/54$

In: -35.836 ± 0.038 $\chi^2/\text{NDF} = 46938.7/47$

Out: -35.820 ± 0.036 $\chi^2/\text{NDF} = 54163.3/54$

All: -35.828 ± 0.026 $\chi^2/\text{NDF} = 101102.1/102$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.633 ± 0.113 χ^2/NDF : 20103.2/24

Left Out: -26.978 ± 0.053 χ^2/NDF : 49361.1/24

Right Out: -46.151 ± 0.096 χ^2/NDF : 18479.4/29

Left In: -26.654 ± 0.055 χ^2/NDF : 42106.8/22

Left: -26.821 ± 0.038 χ^2/NDF : 91485.8/47

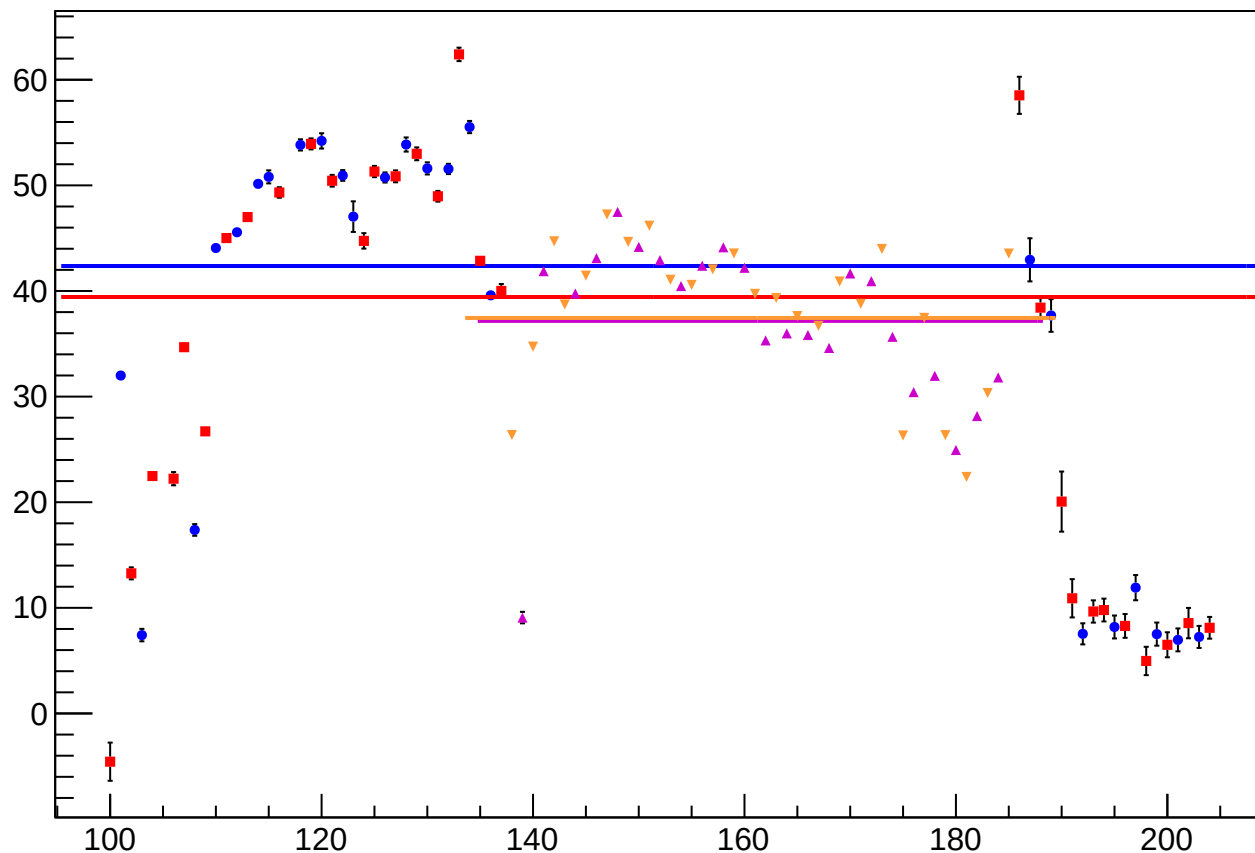
Right: -45.933 ± 0.073 χ^2/NDF : 38594.7/54

In: -30.285 ± 0.049 χ^2/NDF : 85045.5/47

Out: -31.478 ± 0.047 χ^2/NDF : 98339.5/54

All: -30.917 ± 0.034 χ^2/NDF : 183694.0/102

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.365 $\pm$ 0.085 χ^2 /NDF: 16880.6/24

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 39.430 $\pm$ 0.078 χ^2 /NDF: 23311.9/29

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

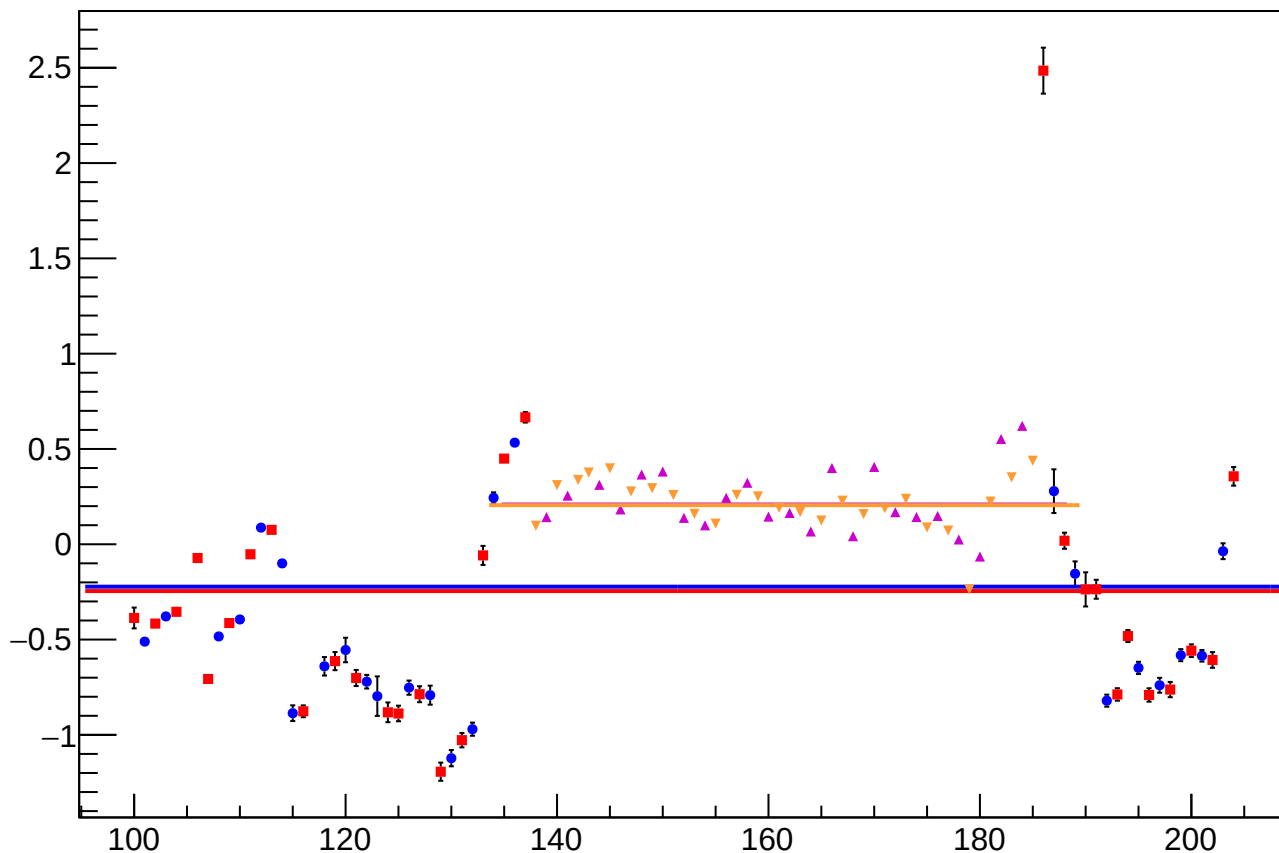
Right: 40.777 $\pm$ 0.058 χ^2 /NDF: 40834.7/54

In: 38.472 $\pm$ 0.043 χ^2 /NDF:36905.5/47

Out: 37.973 $\pm$ 0.040 χ^2 /NDF:45352.3/54

All: 38.209 $\pm$ 0.029 χ^2 /NDF: 82329.8/102

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.223 ± 0.005 χ^2/NDF : 8460.8/24

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.246 ± 0.004 χ^2/NDF : 9060.3/29

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

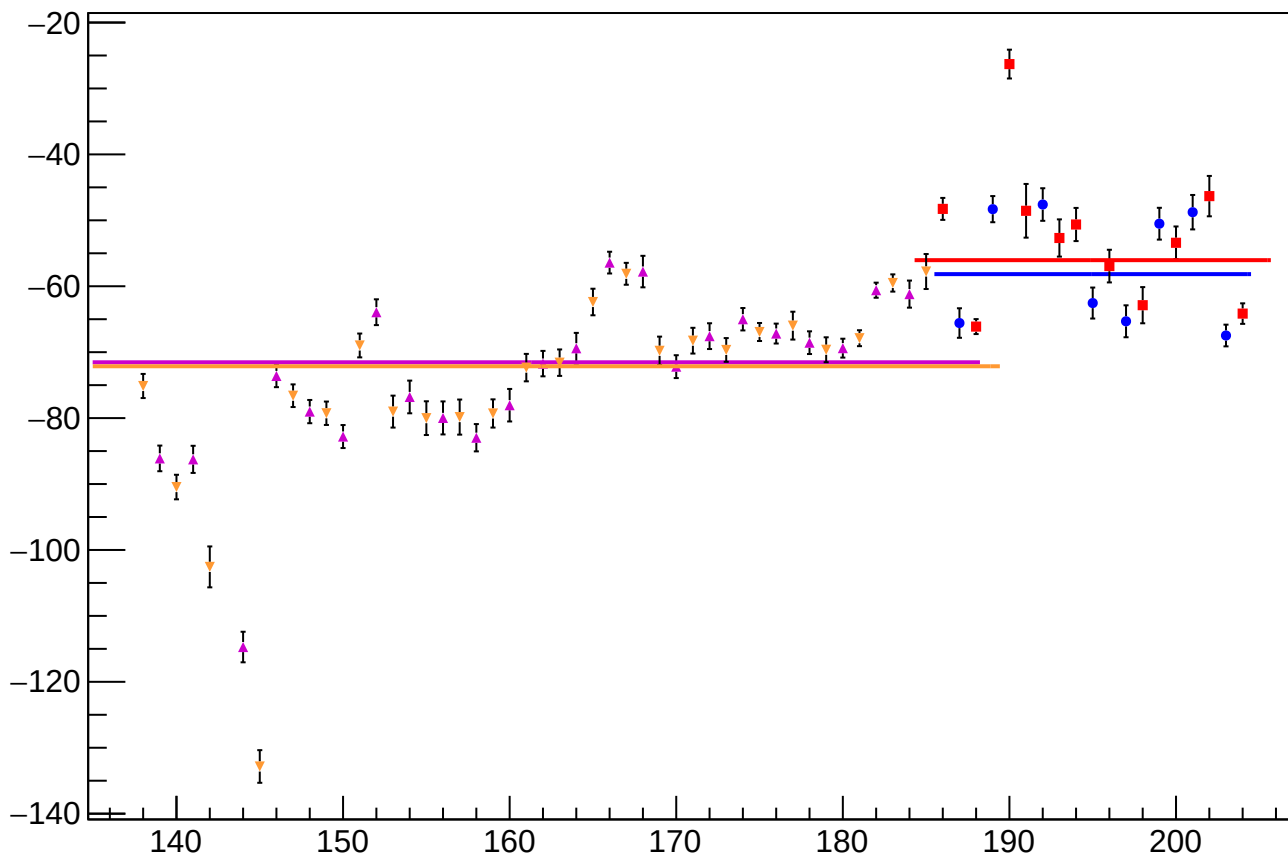
Right: -0.235 ± 0.003 χ^2/NDF : 17535.3/54

In: 0.124 ± 0.002 χ^2/NDF : 20752.7/47

Out: 0.105 ± 0.002 χ^2/NDF : 22429.2/54

All: 0.114 ± 0.001 χ^2/NDF : 43230.0/102

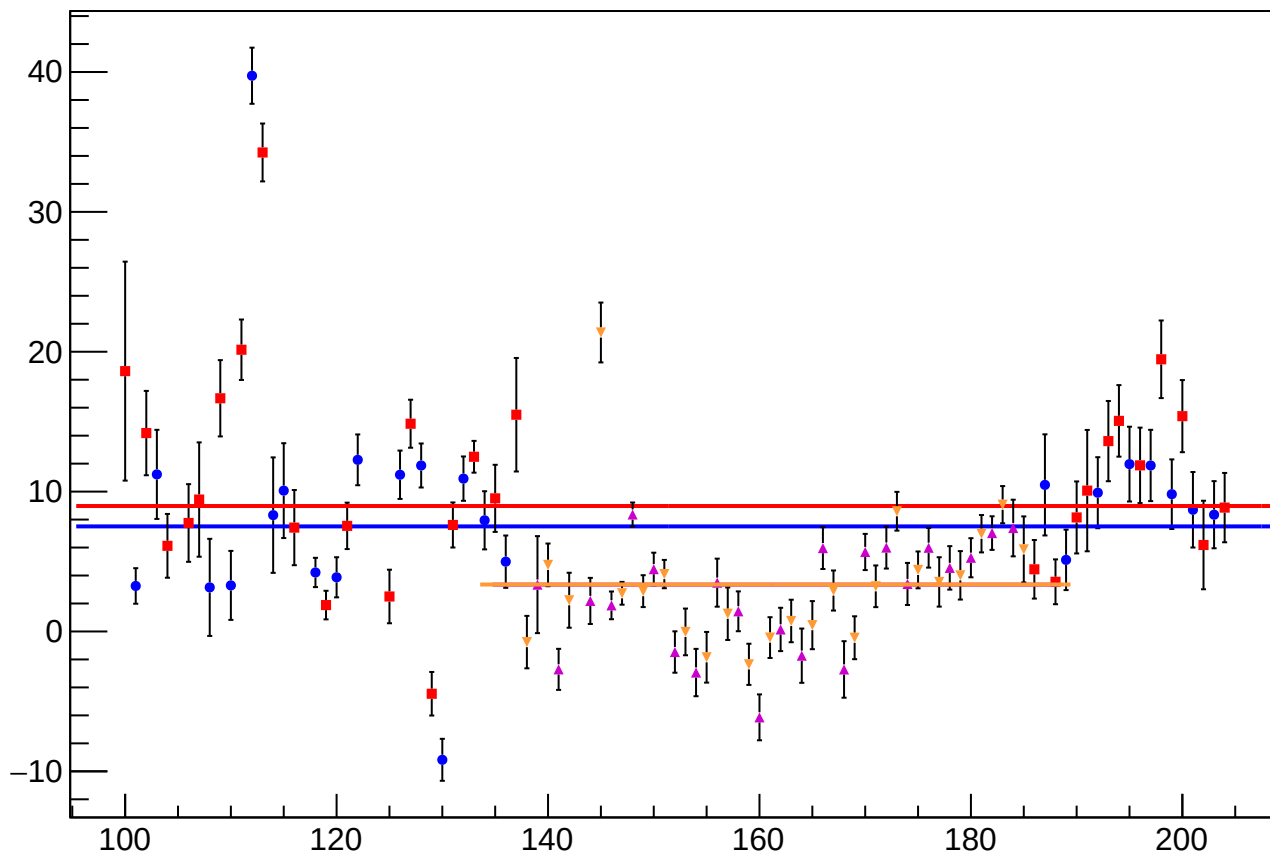
reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.162 ± 0.777 $\chi^2/\text{NDF}: 121.1/7$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -56.043 ± 0.612 $\chi^2/\text{NDF}: 339.8/10$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -56.855 ± 0.481 $\chi^2/\text{NDF}: 465.5/18$
 In: -68.935 ± 0.343 $\chi^2/\text{NDF}: 1211.1/30$
 Out: -67.613 ± 0.325 $\chi^2/\text{NDF}: 1958.0/34$
 All: -68.238 ± 0.236 $\chi^2/\text{NDF}: 3177.0/65$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.512 ± 0.396 χ^2/NDF : 450.9/23

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 8.969 ± 0.385 χ^2/NDF : 396.8/28

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

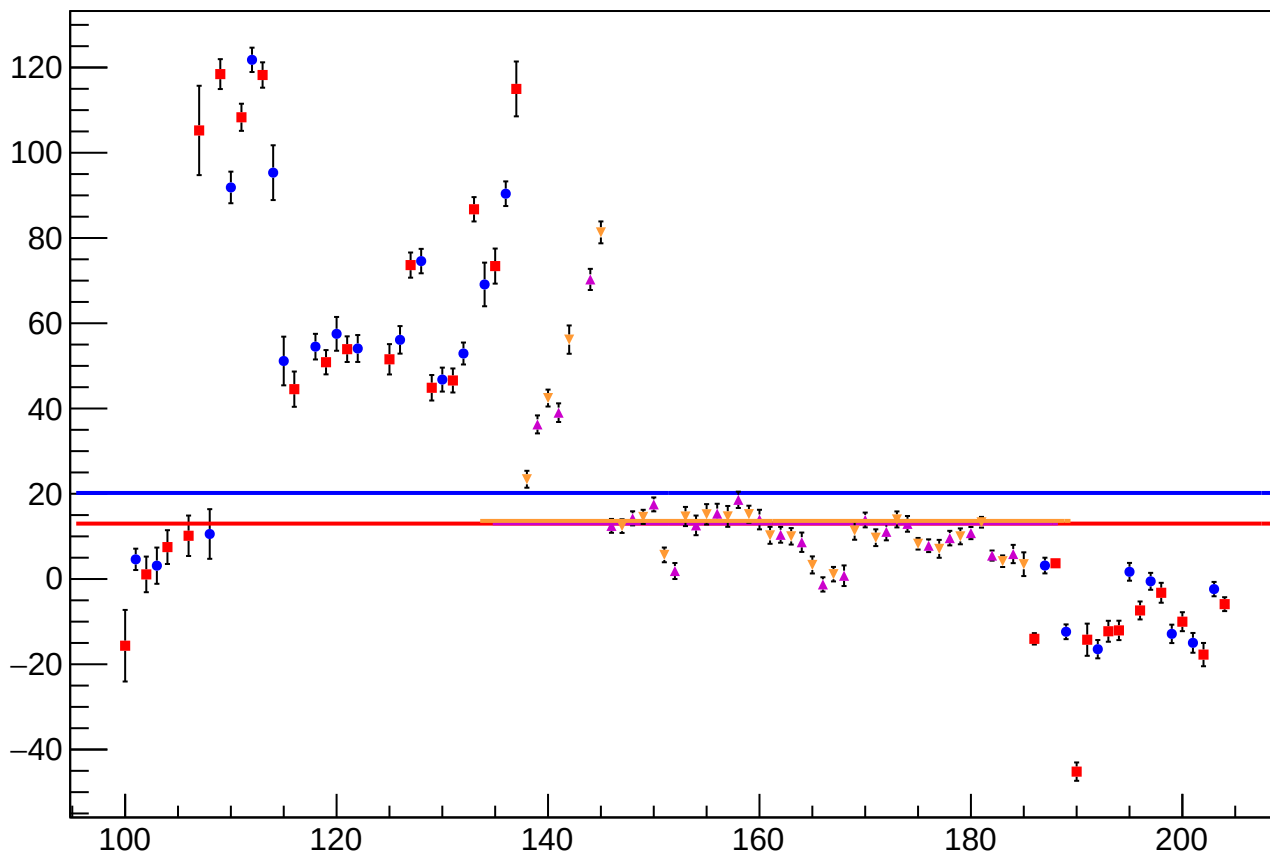
Right: 8.261 ± 0.276 χ^2/NDF : 854.7/52

In: 4.855 ± 0.238 χ^2/NDF : 684.9/46

Out: 5.431 ± 0.234 χ^2/NDF : 698.4/52

All: 5.148 ± 0.167 χ^2/NDF : 1386.3/99

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 20.191+/-0.534 χ^2/NDF : 5176.6/23

Left Out: 13.632+/-0.382 χ^2/NDF :1300.0/23

Right Out: 12.999+/-0.451 χ^2/NDF : 7530.4/28

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.344+/-0.269 χ^2/NDF : 2325.9/46

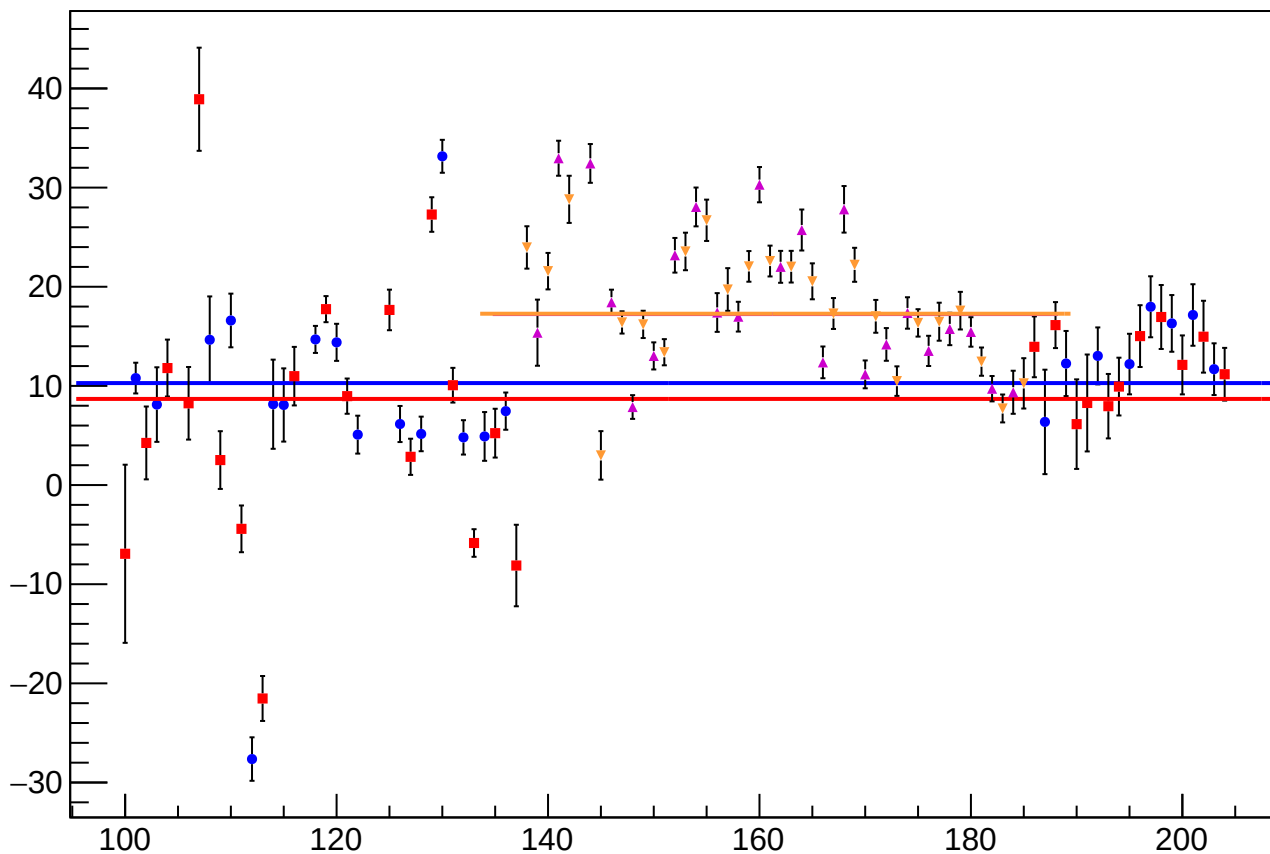
Right: 15.991+/-0.345 χ^2/NDF : 12812.8/52

In: 15.452+/-0.310 χ^2/NDF :6319.8/46

Out: 13.368+/-0.291 χ^2/NDF :8831.5/52

All: 14.347+/-0.212 χ^2/NDF : 15175.4/99

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.285 $\pm$ 0.460 χ^2 /NDF: 567.7/23

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.686 $\pm$ 0.453 χ^2 /NDF: 602.1/28

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

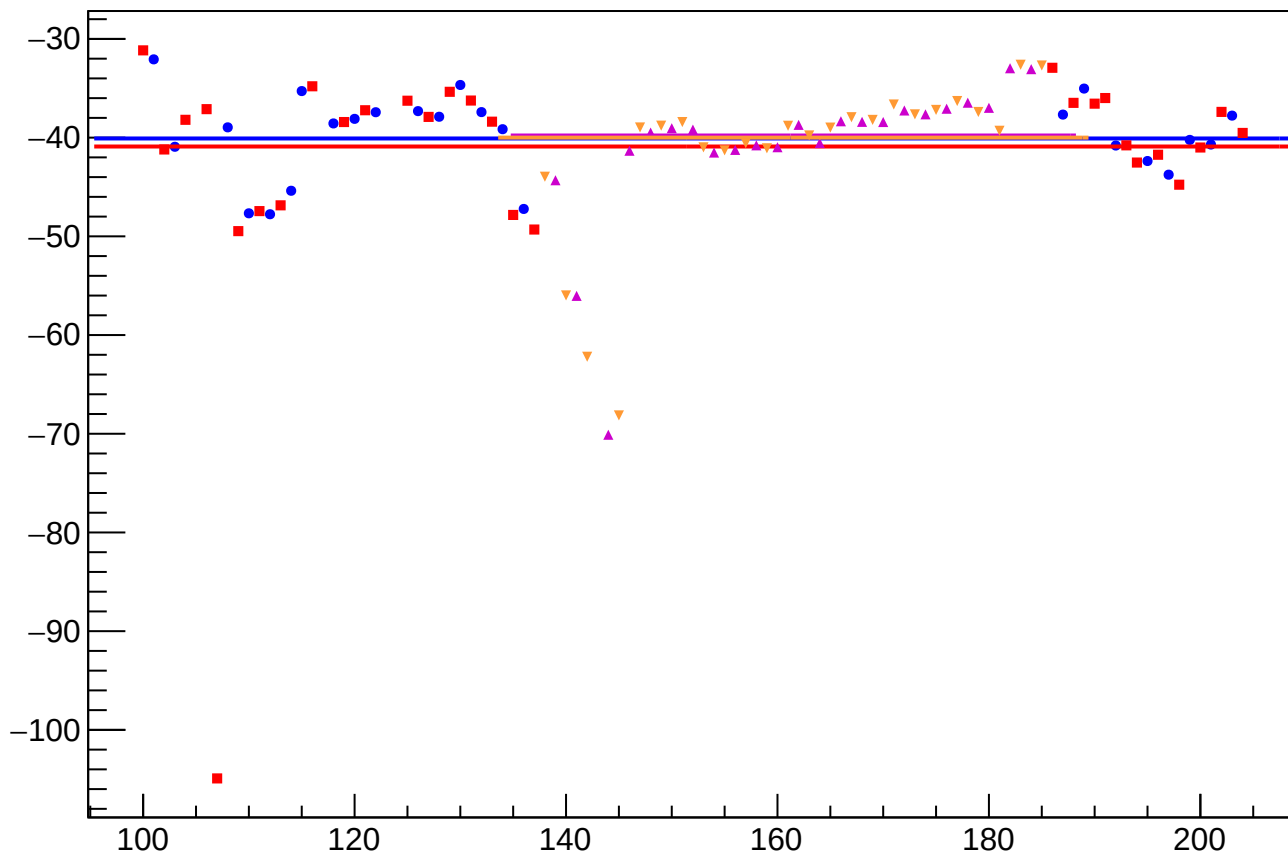
Right: 9.472 $\pm$ 0.323 χ^2 /NDF: 1175.9/52

In: 14.795 $\pm$ 0.273 χ^2 /NDF:1156.5/46

Out: 14.214 $\pm$ 0.270 χ^2 /NDF:1077.8/52

All: 14.501 $\pm$ 0.192 χ^2 /NDF: 2236.6/99

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.085 ± 0.023 χ^2/NDF : 30374.6/23

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.899 ± 0.022 χ^2/NDF : 103796.6/28

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

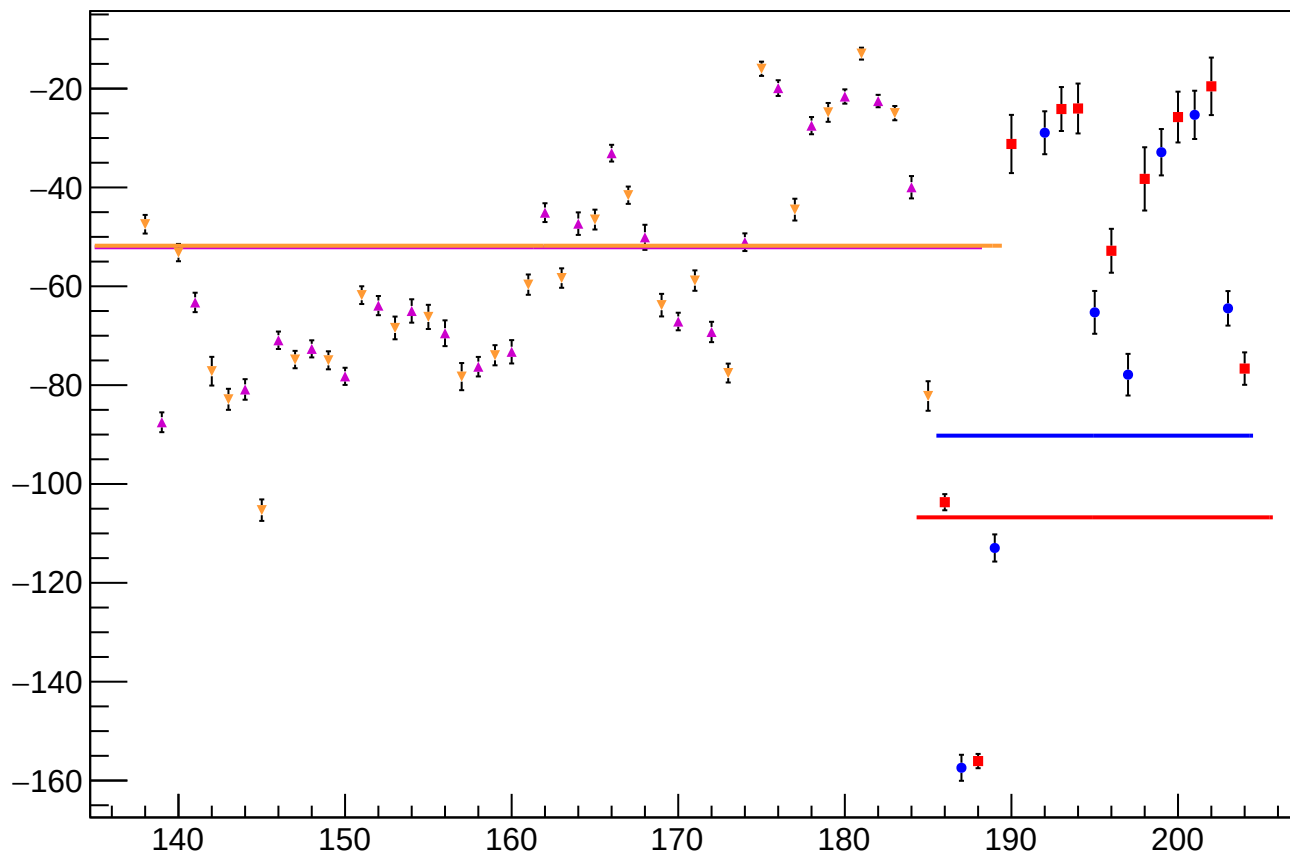
Right: -40.512 ± 0.016 χ^2/NDF : 134800.9/52

In: -39.877 ± 0.013 χ^2/NDF : 174982.4/46

Out: -40.298 ± 0.013 χ^2/NDF : 277142.2/52

All: -40.090 ± 0.009 χ^2/NDF : 452651.9/99

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -90.219 ± 1.282 χ^2/NDF : 1341.6/7

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -106.749 ± 0.910 χ^2/NDF : 2764.4/9

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

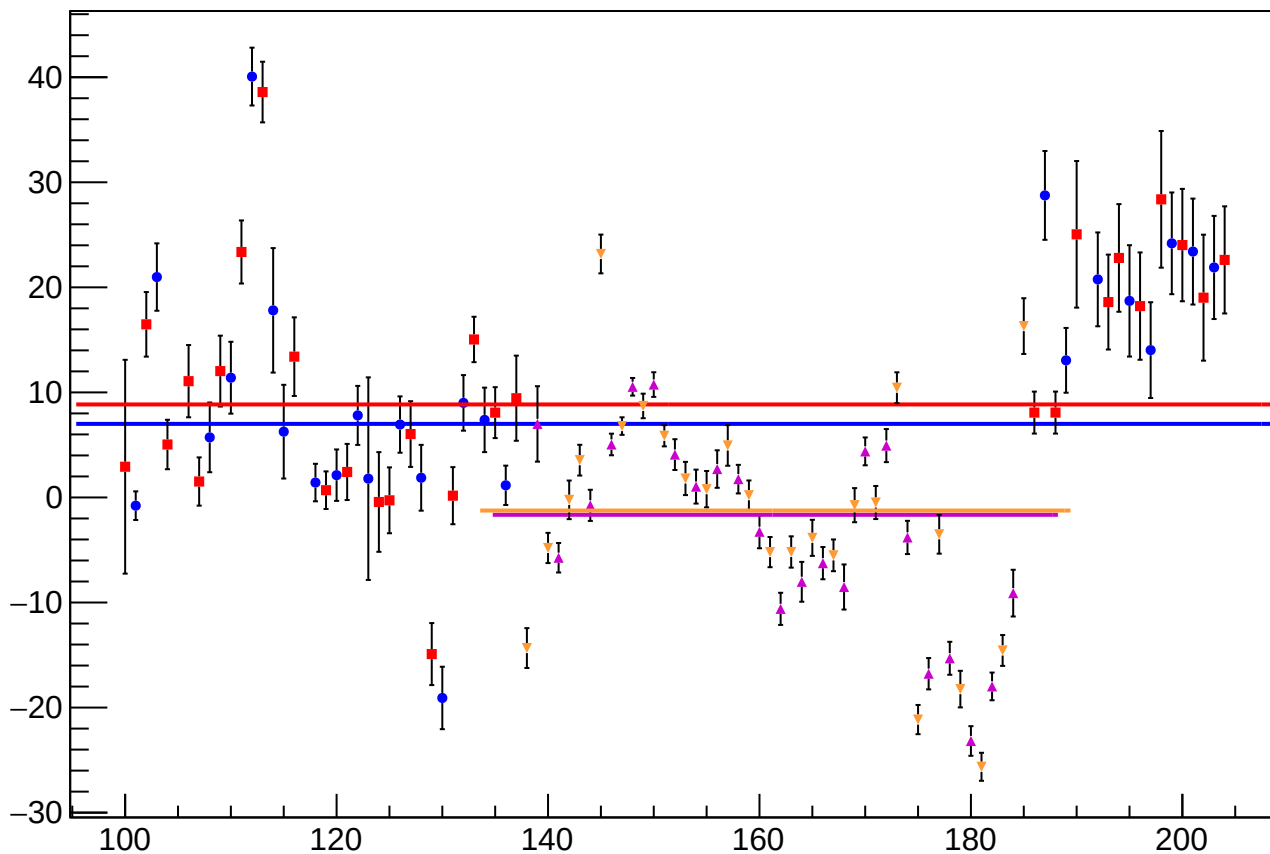
Right: -101.211 ± 0.742 χ^2/NDF : 4216.5/17

In: -55.313 ± 0.372 χ^2/NDF : 5431.5/30

Out: -60.047 ± 0.353 χ^2/NDF : 10030.0/34

All: -57.805 ± 0.256 χ^2/NDF : 15546.9/65

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.004 ± 0.582 $\chi^2/\text{NDF}: 384.8/24$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 8.854 ± 0.565 $\chi^2/\text{NDF}: 323.0/28$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

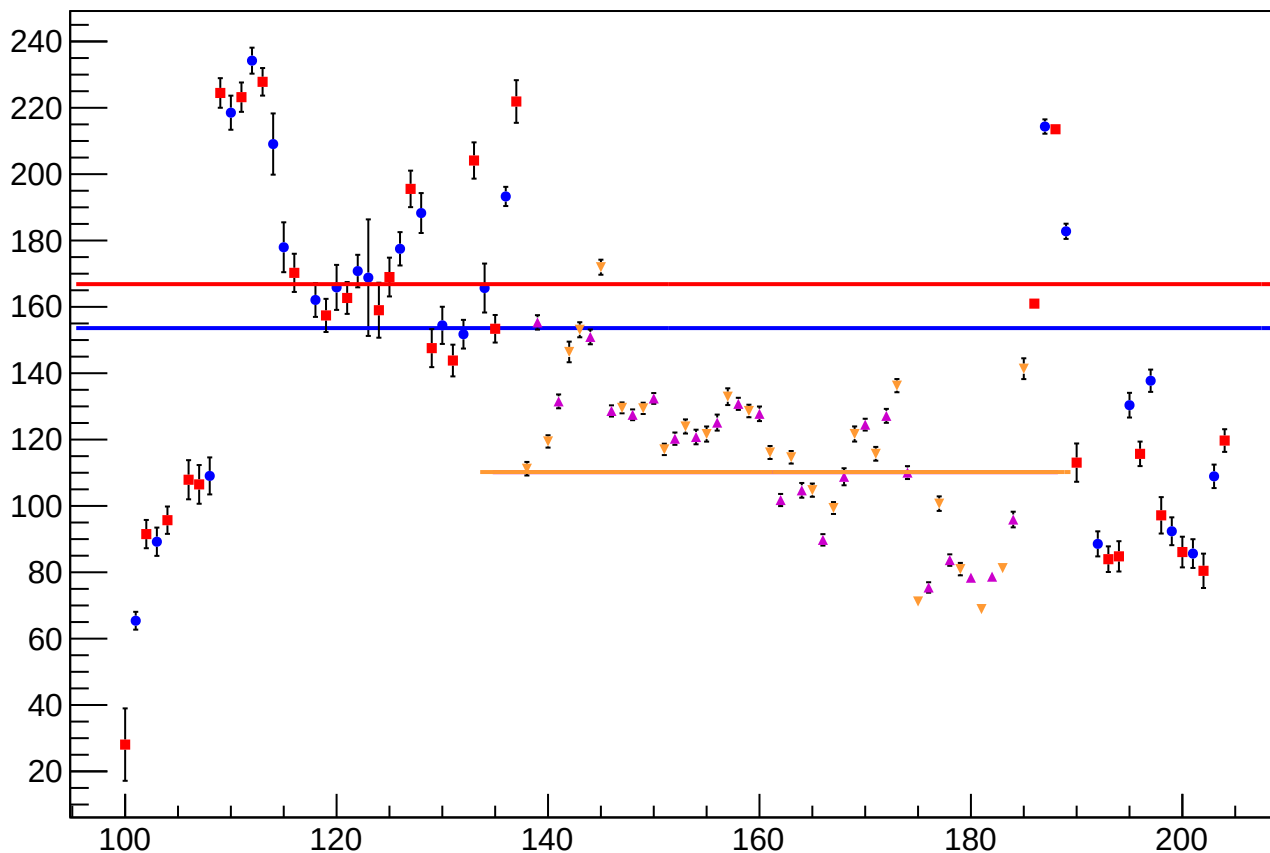
Right: 7.956 ± 0.406 $\chi^2/\text{NDF}: 713.0/53$

In: 0.166 ± 0.267 $\chi^2/\text{NDF}: 1651.5/47$

Out: 0.878 ± 0.259 $\chi^2/\text{NDF}: 1897.6/53$

All: 0.532 ± 0.186 $\chi^2/\text{NDF}: 3552.8/101$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 153.601 $\pm$ 0.796 χ^2 /NDF: 4194.3/24

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 166.848 $\pm$ 0.636 χ^2 /NDF: 5355.4/28

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

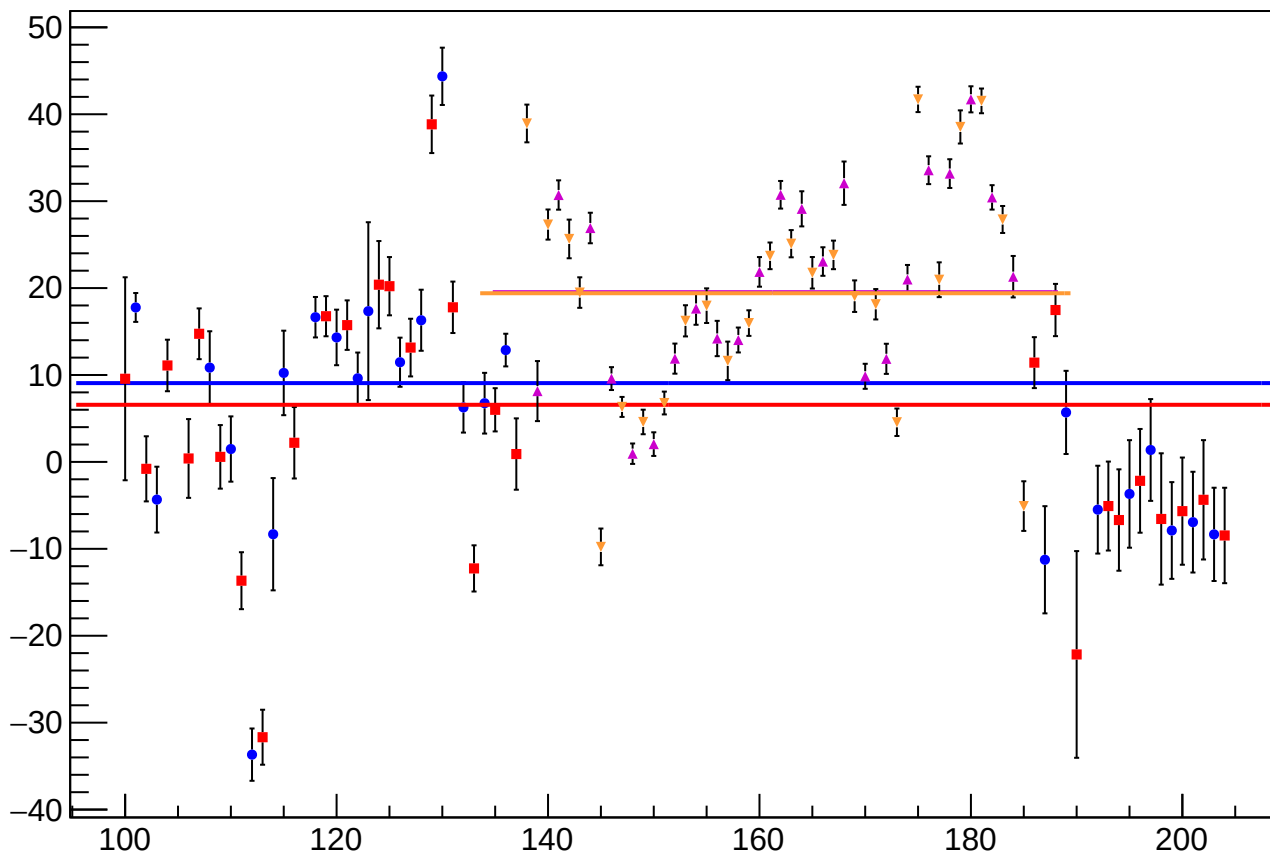
Right: 161.684 $\pm$ 0.497 χ^2 /NDF: 9718.7/53

In: 118.440 $\pm$ 0.347 χ^2 /NDF:10307.3/47

Out: 125.223 $\pm$ 0.328 χ^2 /NDF:15773.9/53

All: 122.030 $\pm$ 0.238 χ^2 /NDF: 26283.1/101

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.067 $\pm$ 0.676 χ^2 /NDF: 445.5/24

Left Out: 19.405 $\pm$ 0.335 χ^2 /NDF:1453.4/24

Right Out: 6.572 $\pm$ 0.672 χ^2 /NDF: 474.9/28

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

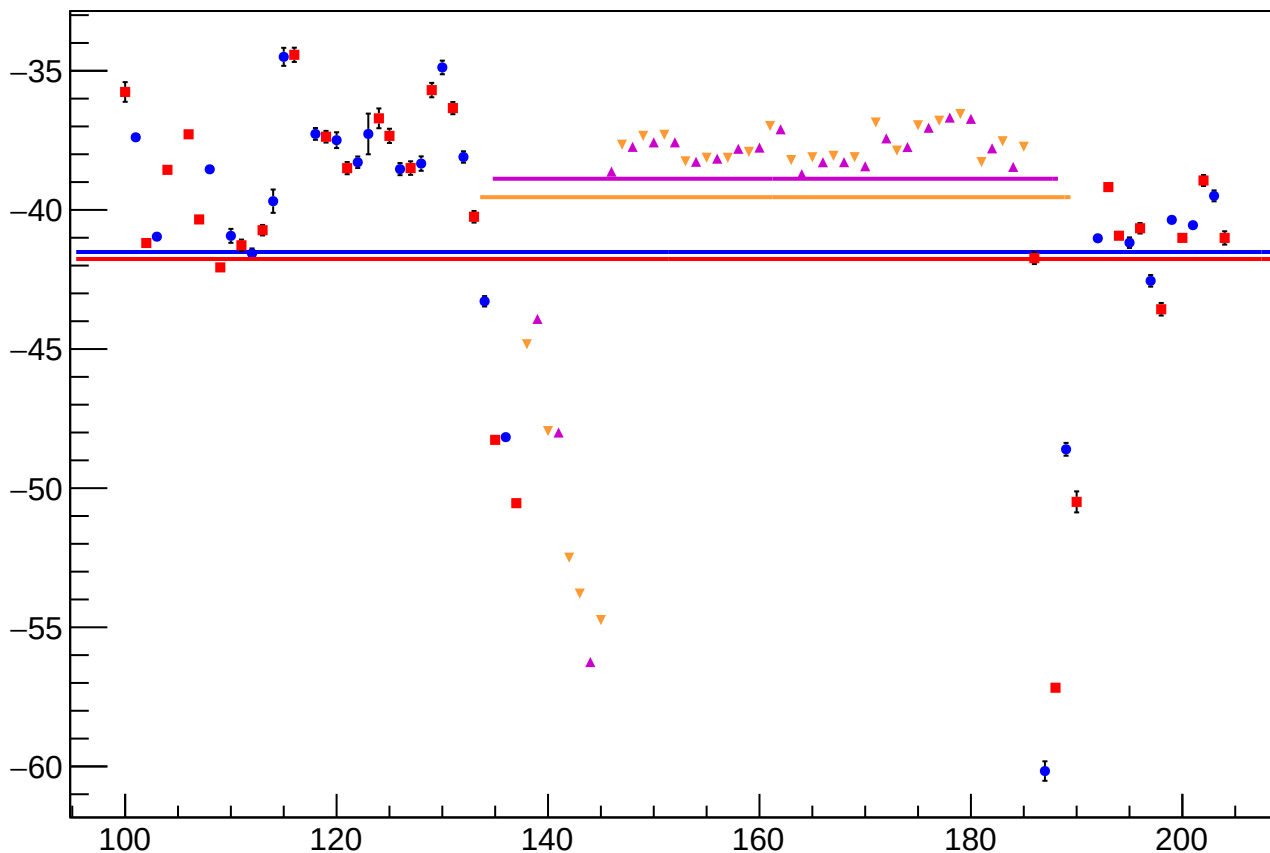
Right: 7.812 $\pm$ 0.477 χ^2 /NDF: 927.3/53

In: 17.394 $\pm$ 0.306 χ^2 /NDF:1817.4/47

Out: 16.856 $\pm$ 0.300 χ^2 /NDF:2220.3/53

All: 17.120 $\pm$ 0.214 χ^2 /NDF: 4039.3/101

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.513 ± 0.034 $\chi^2/\text{NDF}: 16548.3/24$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.763 ± 0.033 $\chi^2/\text{NDF}: 22862.3/28$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

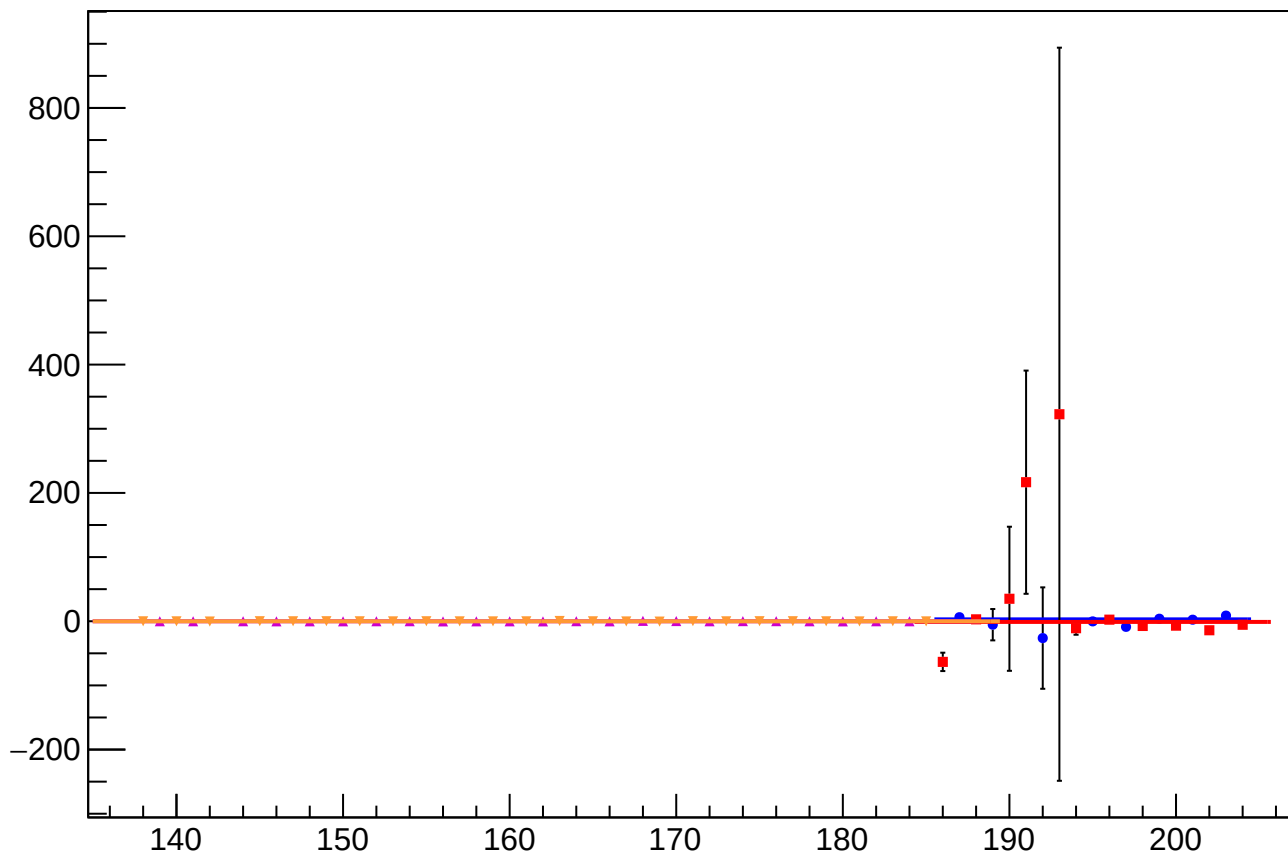
Right: -41.641 ± 0.023 $\chi^2/\text{NDF}: 39439.2/53$

In: -39.361 ± 0.014 $\chi^2/\text{NDF}: 74995.0/47$

Out: -39.959 ± 0.014 $\chi^2/\text{NDF}: 118634.4/53$

All: -39.664 ± 0.010 $\chi^2/\text{NDF}: 194509.3/101$

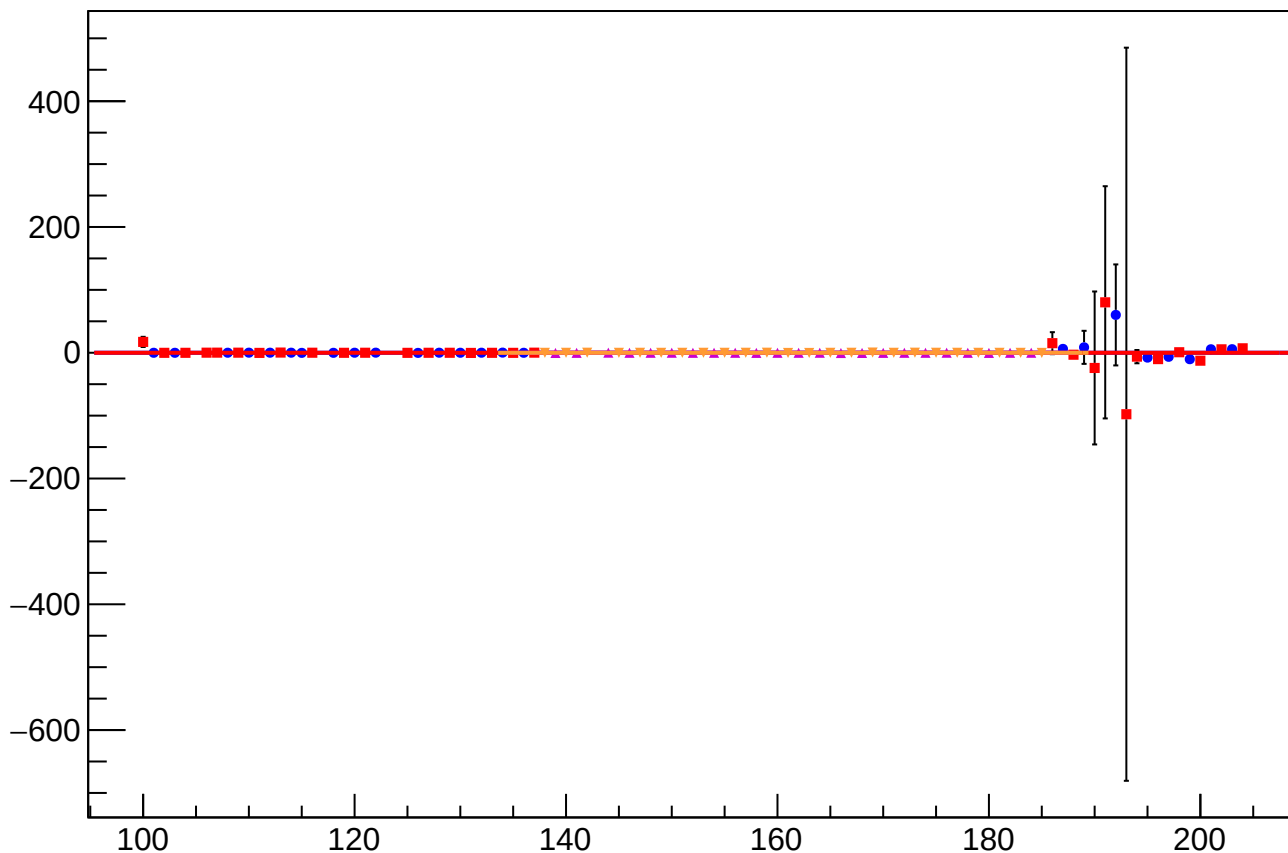
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.914 ± 1.813 $\chi^2/\text{NDF}: 9.8/7$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -1.047 ± 1.513 $\chi^2/\text{NDF}: 32.5/10$
 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: 0.580 ± 1.162 $\chi^2/\text{NDF}: 45.1/18$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 45.7/30$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 72.6/34$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 122.5/65$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 22.8/23

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.051 ± 0.029 χ^2/NDF : 36.4/28

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

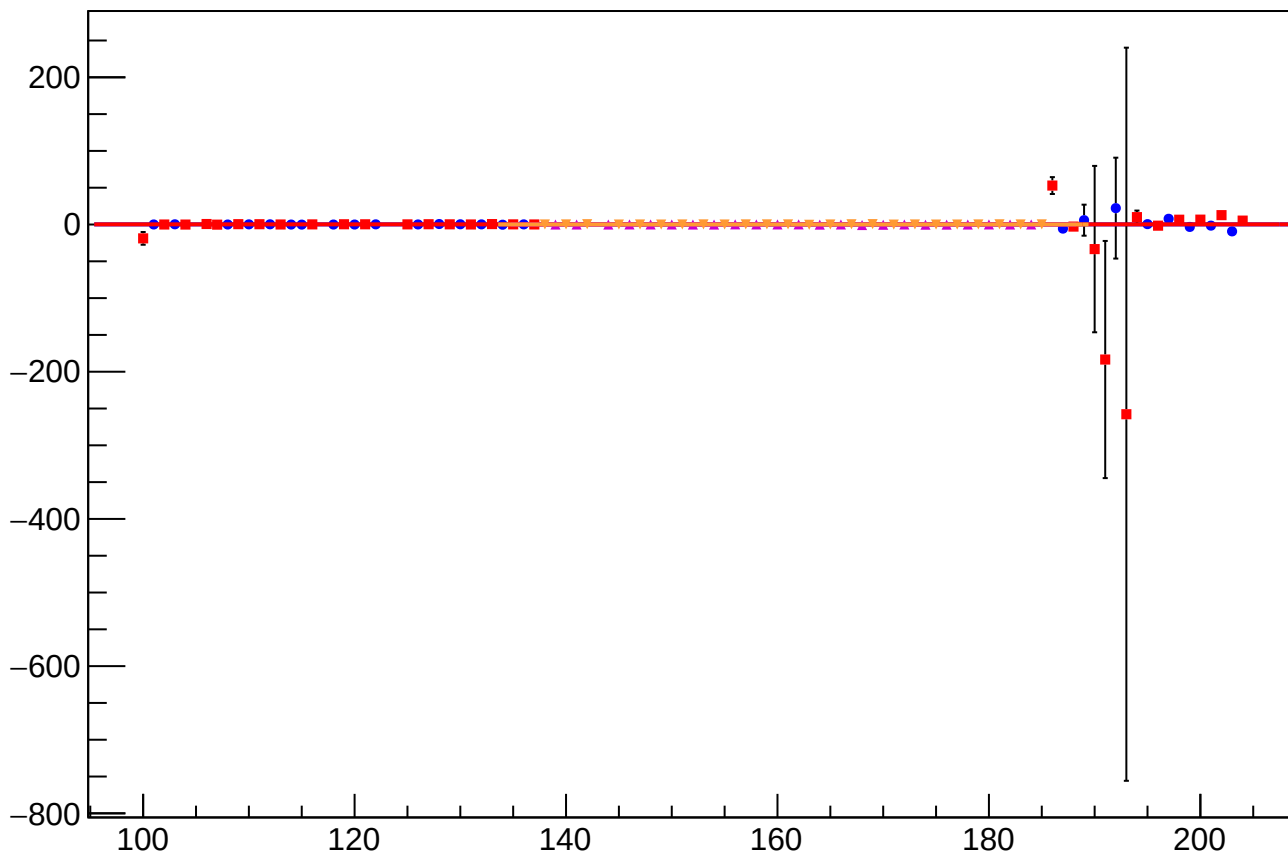
Right: -0.026 ± 0.020 χ^2/NDF : 60.7/52

In: -0.038 ± 0.015 χ^2/NDF : 56.7/46

Out: -0.073 ± 0.015 χ^2/NDF : 63.1/52

All: -0.056 ± 0.011 χ^2/NDF : 122.5/99

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.171 $\pm$ 0.053 χ^2 /NDF: 26.9/23

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 56.9/28

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

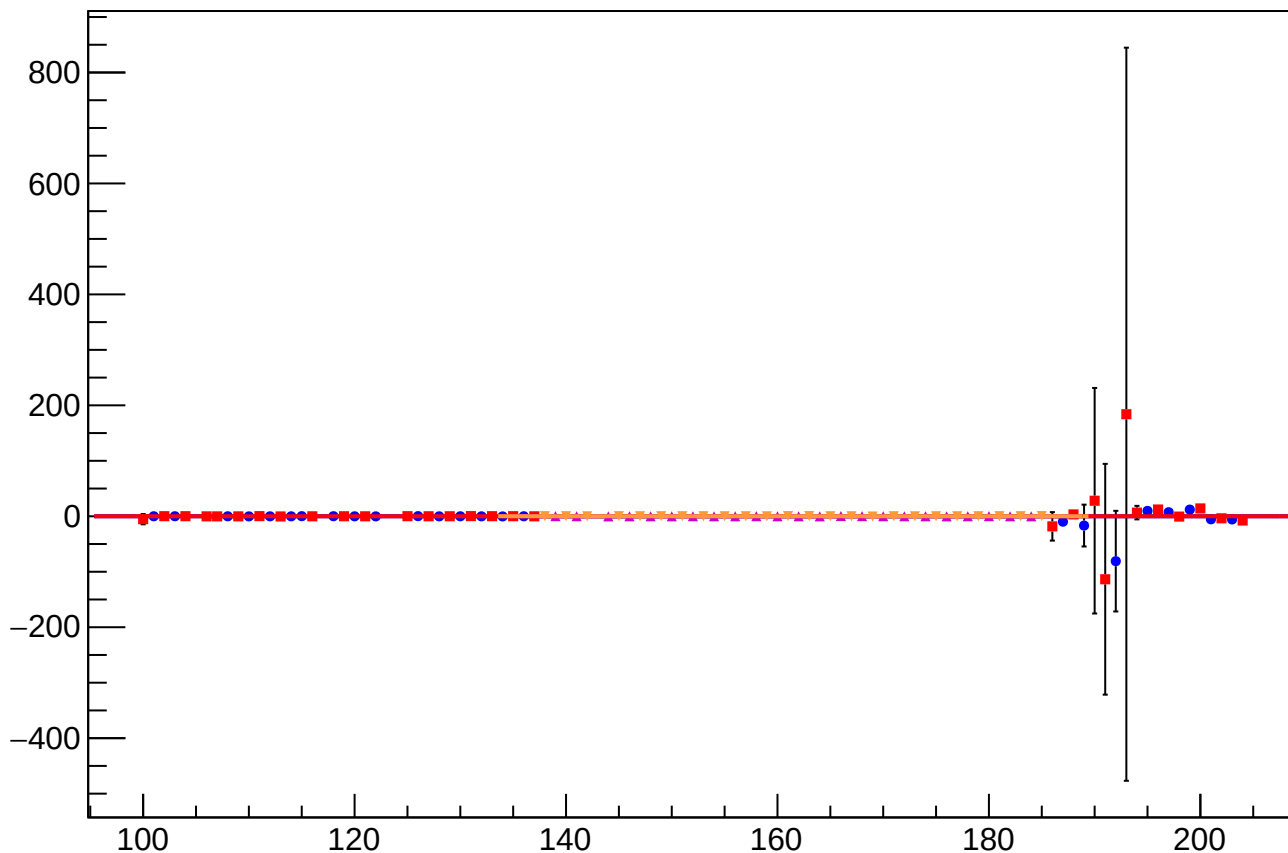
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 84.5/52

In: 0.043 $\pm$ 0.020 χ^2 /NDF:69.4/46

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:102.4/52

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 176.2/99

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 $\chi^2/\text{NDF}: 24.6/23$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.058 ± 0.034 $\chi^2/\text{NDF}: 30.3/28$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

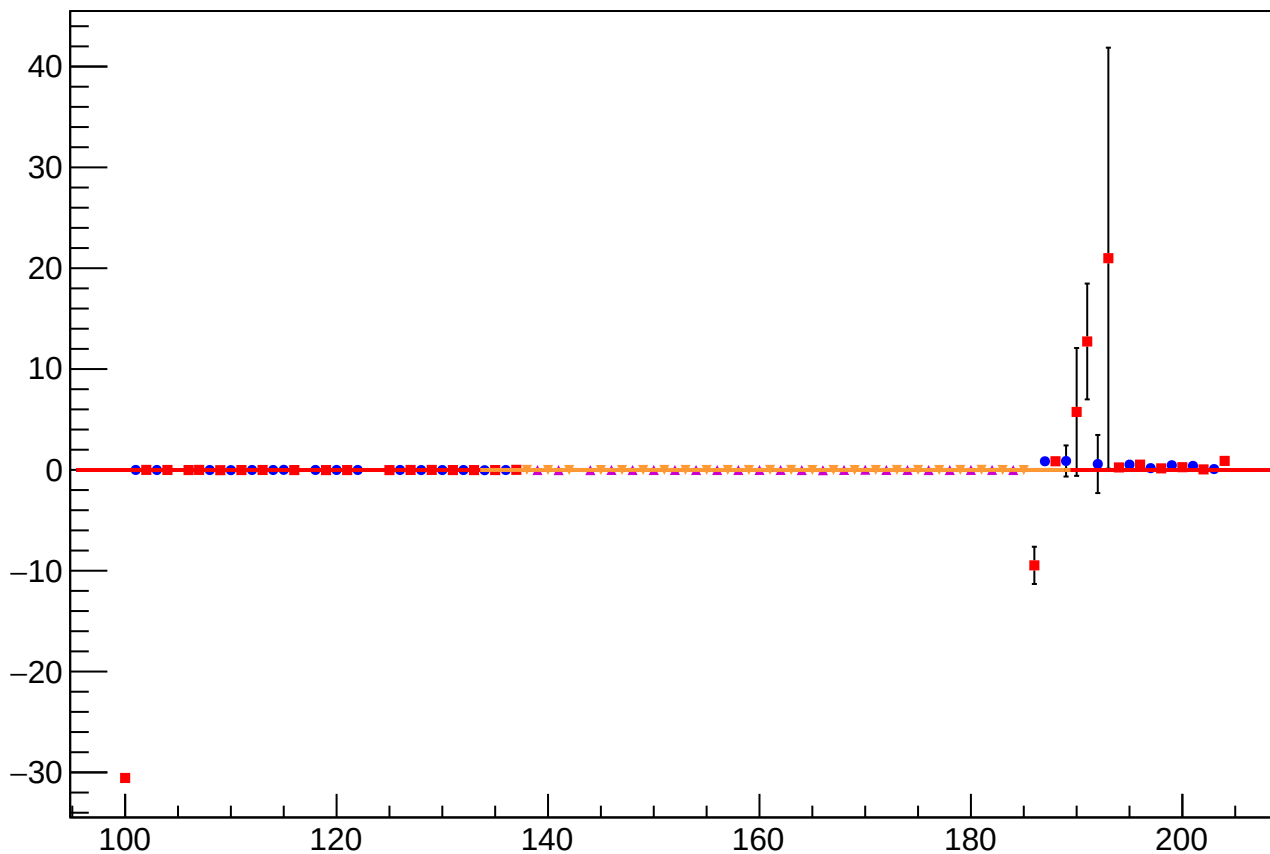
Right: 0.025 ± 0.024 $\chi^2/\text{NDF}: 56.7/52$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 59.8/46$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 61.2/52$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 124.4/99$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 35.3/23

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.3/28

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

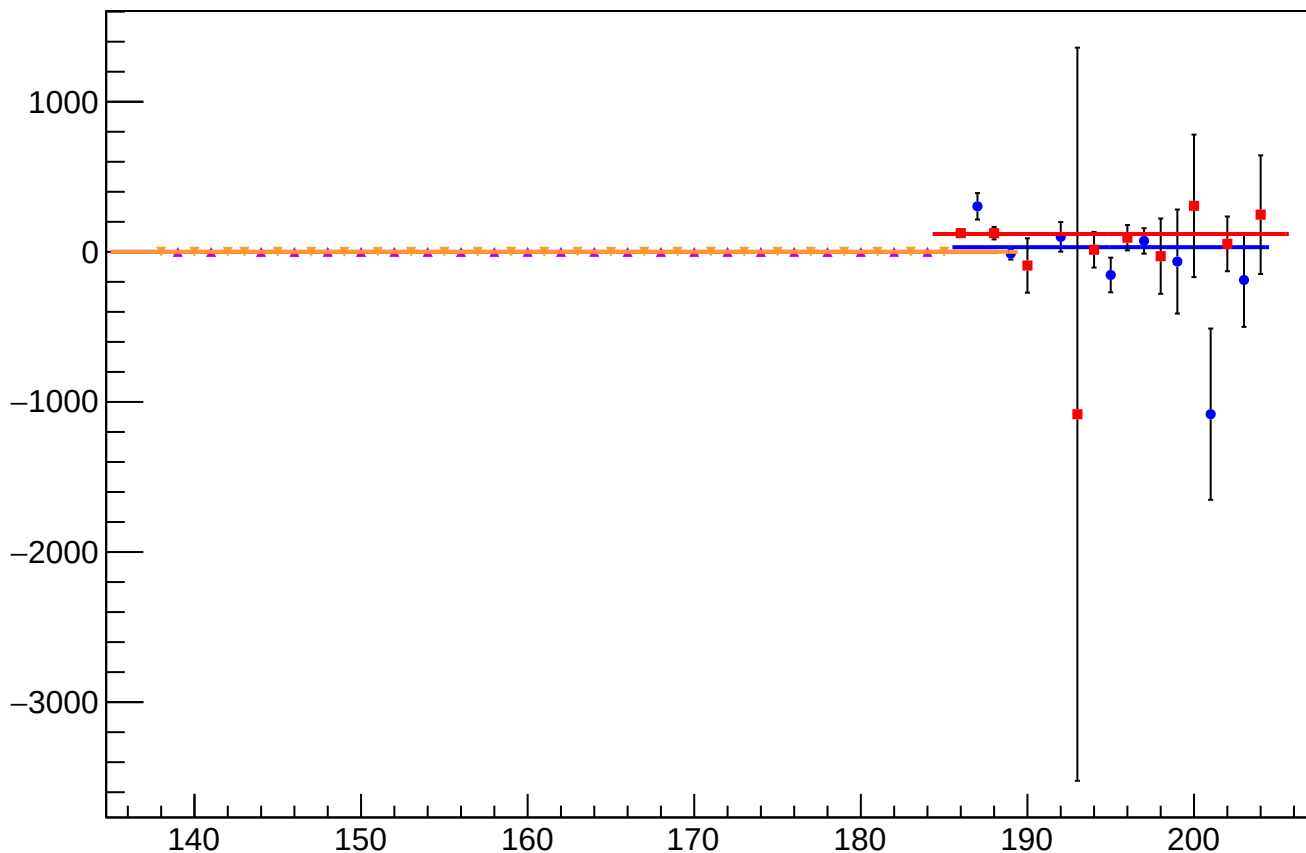
Right: -0.012 ± 0.001 χ^2/NDF : 11989.6/52

In: -0.009 ± 0.001 χ^2/NDF : 78.3/46

Out: -0.009 ± 0.001 χ^2/NDF : 11988.2/52

All: -0.009 ± 0.001 χ^2/NDF : 12066.8/99

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 31.040 $\pm$ 30.015 χ^2 /NDF: 18.4/7

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 118.743 $\pm$ 16.444 χ^2 /NDF: 3.3/9

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

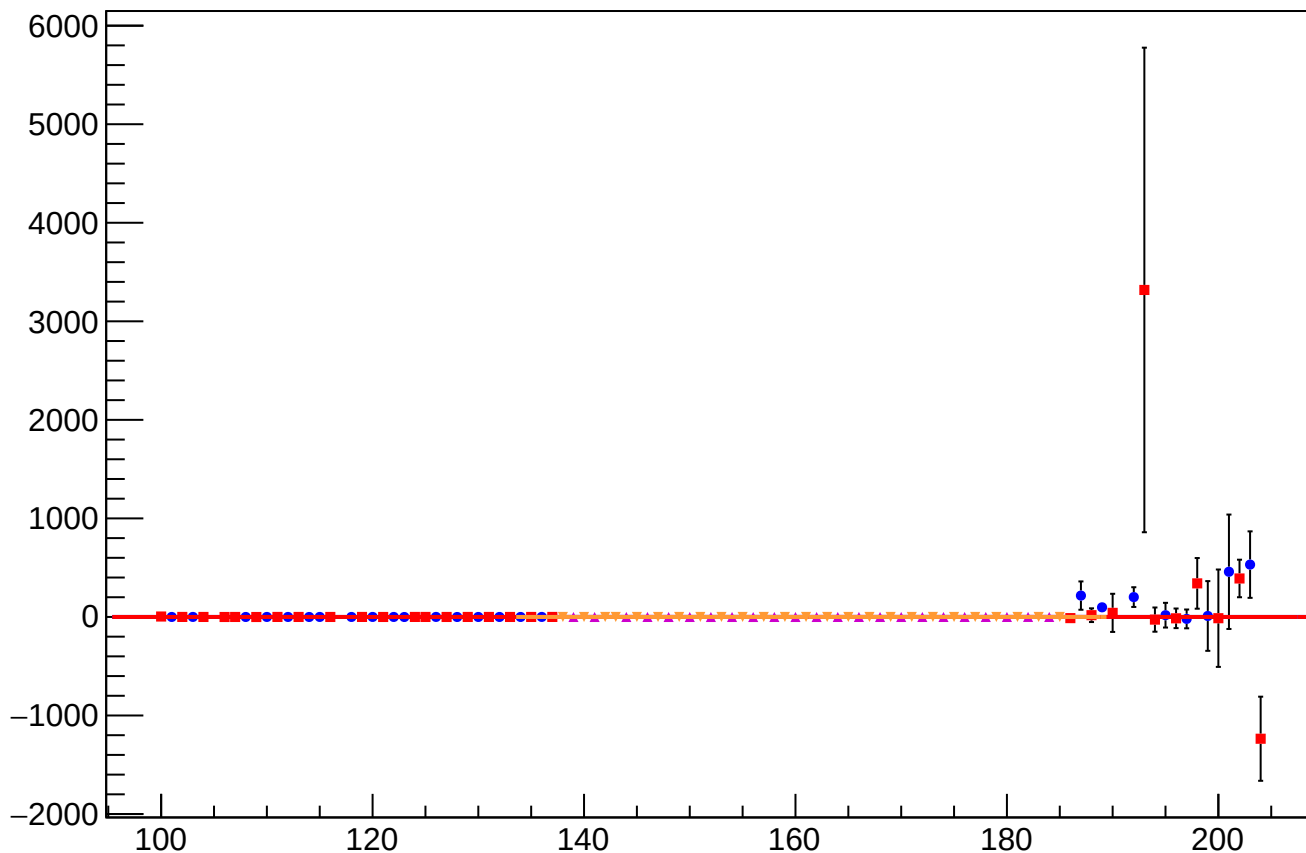
Right: 98.496 $\pm$ 14.422 χ^2 /NDF: 28.3/17

In: 0.002 $\pm$ 0.028 χ^2 /NDF:48.5/30

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:86.4/34

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 135.0/65

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 37.2/24$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 35.1/28$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

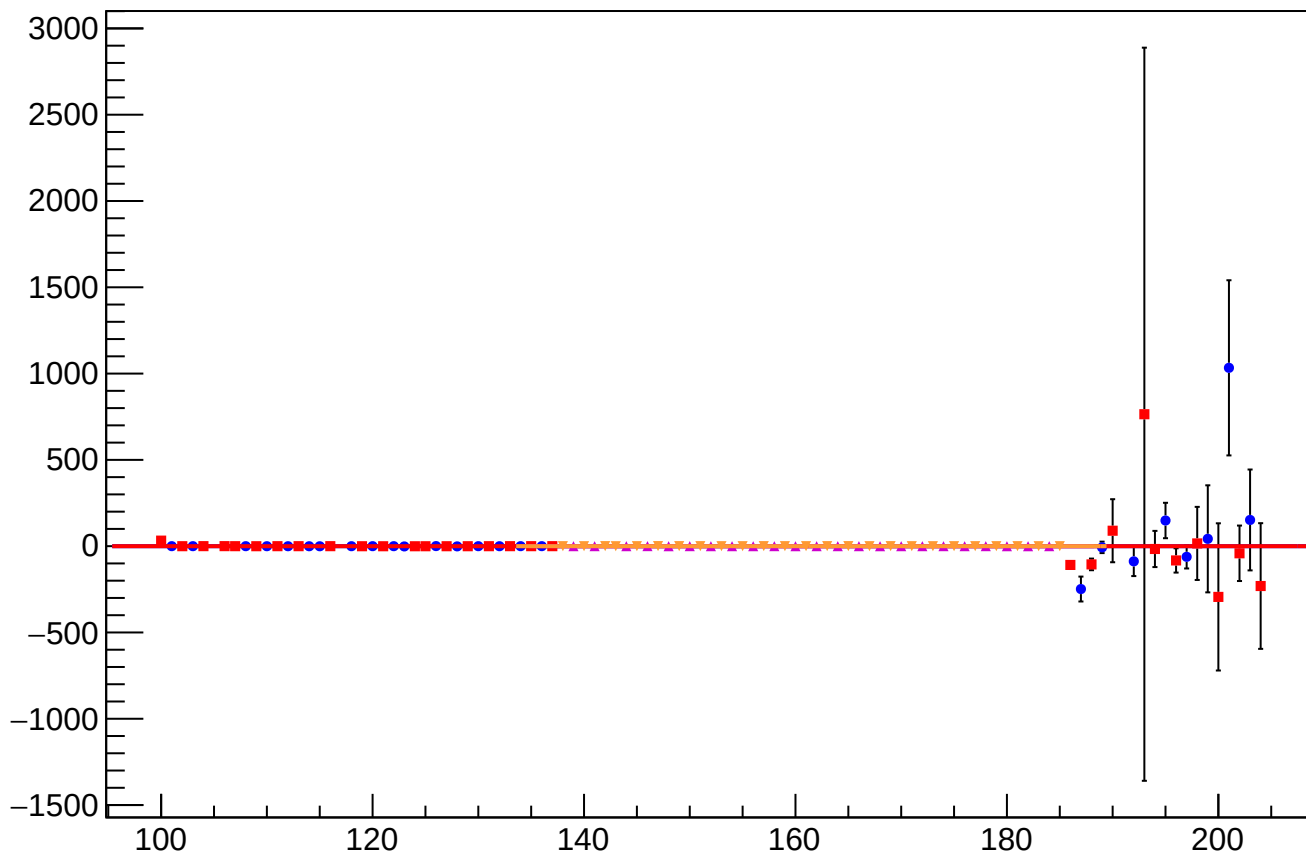
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 75.6/53$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 87.5/47$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 61.6/53$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 149.3/101$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135+/-0.067 χ^2/NDF : 45.1/24

Left Out: -0.018+/-0.027 χ^2/NDF : 29.0/24

Right Out: -0.167+/-0.071 χ^2/NDF : 78.6/28

Left In: -0.033+/-0.027 χ^2/NDF : 28.5/22

Left: -0.025+/-0.019 χ^2/NDF : 57.6/47

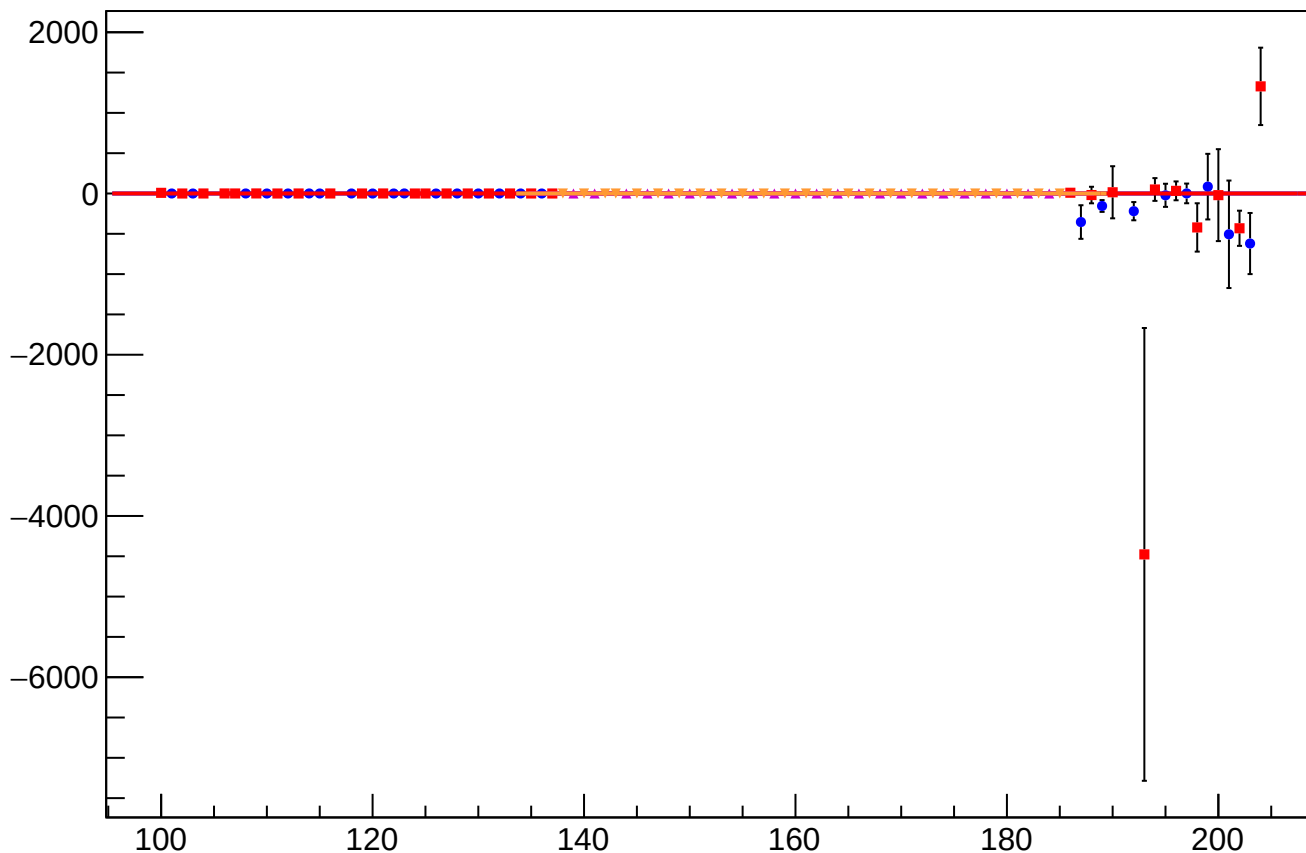
Right: -0.150+/-0.049 χ^2/NDF : 123.7/53

In: -0.047+/-0.025 χ^2/NDF : 75.5/47

Out: -0.037+/-0.025 χ^2/NDF : 111.4/53

All: -0.042+/-0.018 χ^2/NDF : 187.0/101

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 36.1/24

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 33.2/28

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

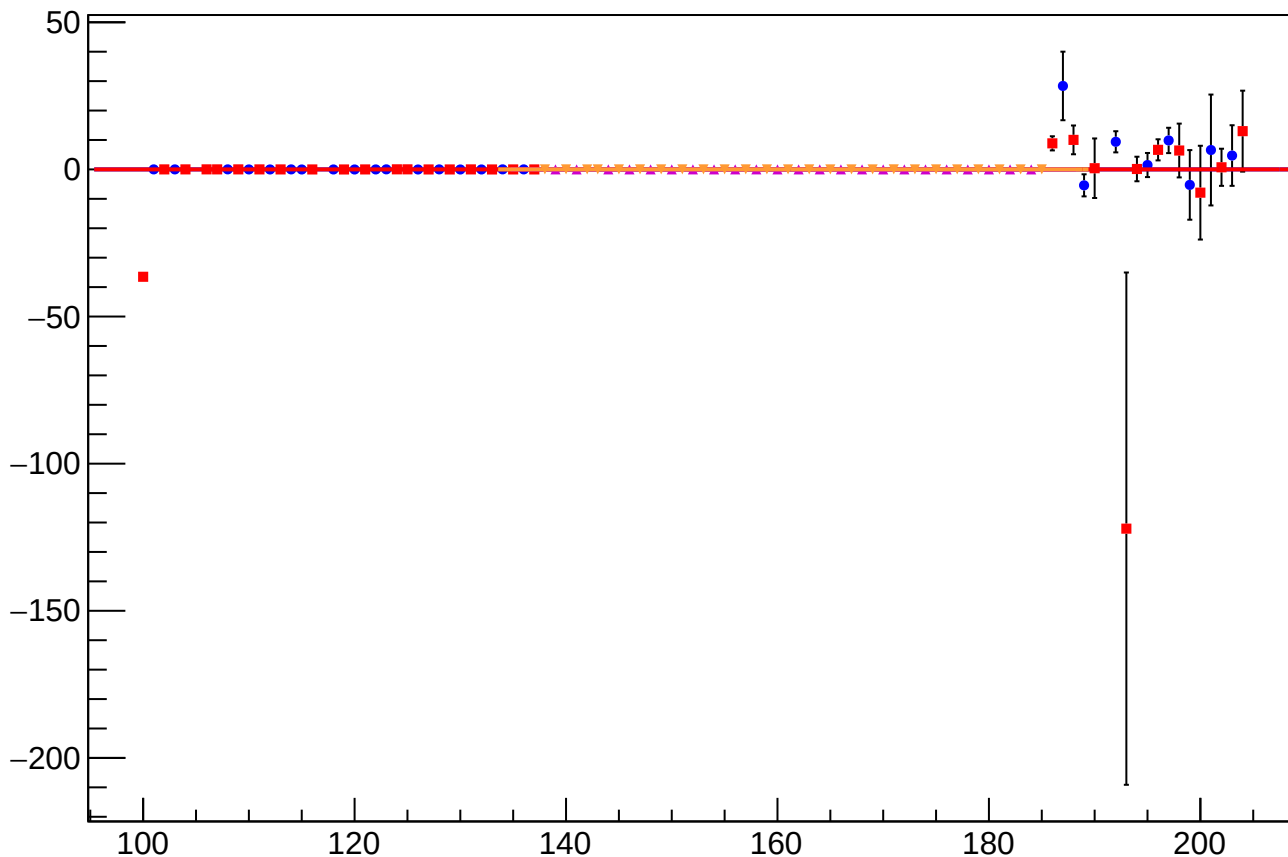
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 73.3/53

In: 0.056 $\pm$ 0.021 χ^2 /NDF:88.9/47

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:60.3/53

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 149.9/101

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 51.2/24

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10474.0/28

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

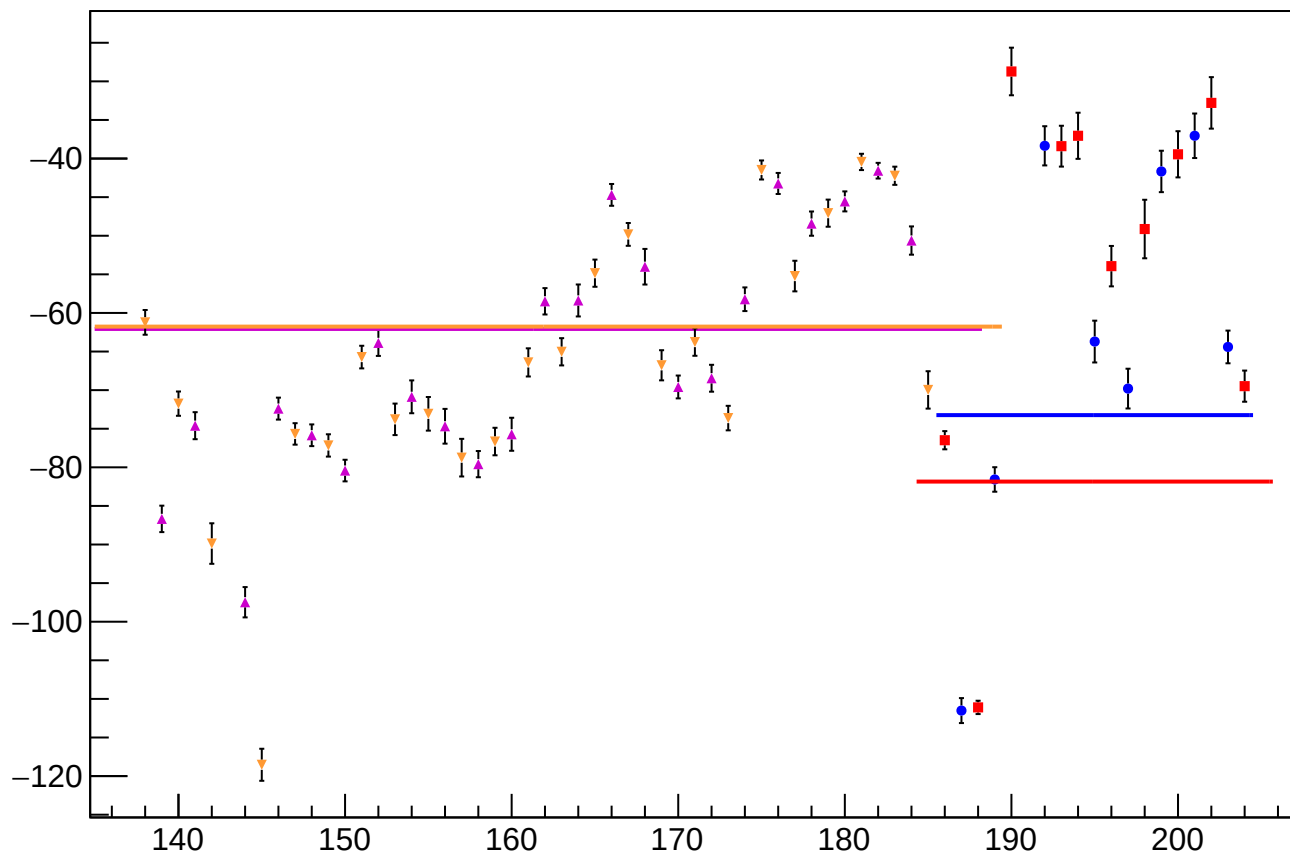
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10525.2/53

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 75.7/47

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10509.2/53

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10585.0/101

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -73.237 ± 0.766 χ^2/NDF : 1103.9/7

Left Out: -61.771 ± 0.334 χ^2/NDF : 2504.9/23

Right Out: -81.846 ± 0.570 χ^2/NDF : 2600.7/9

Left In: -62.073 ± 0.332 χ^2/NDF : 2192.0/22

Left: -61.923 ± 0.236 χ^2/NDF : 4697.3/46

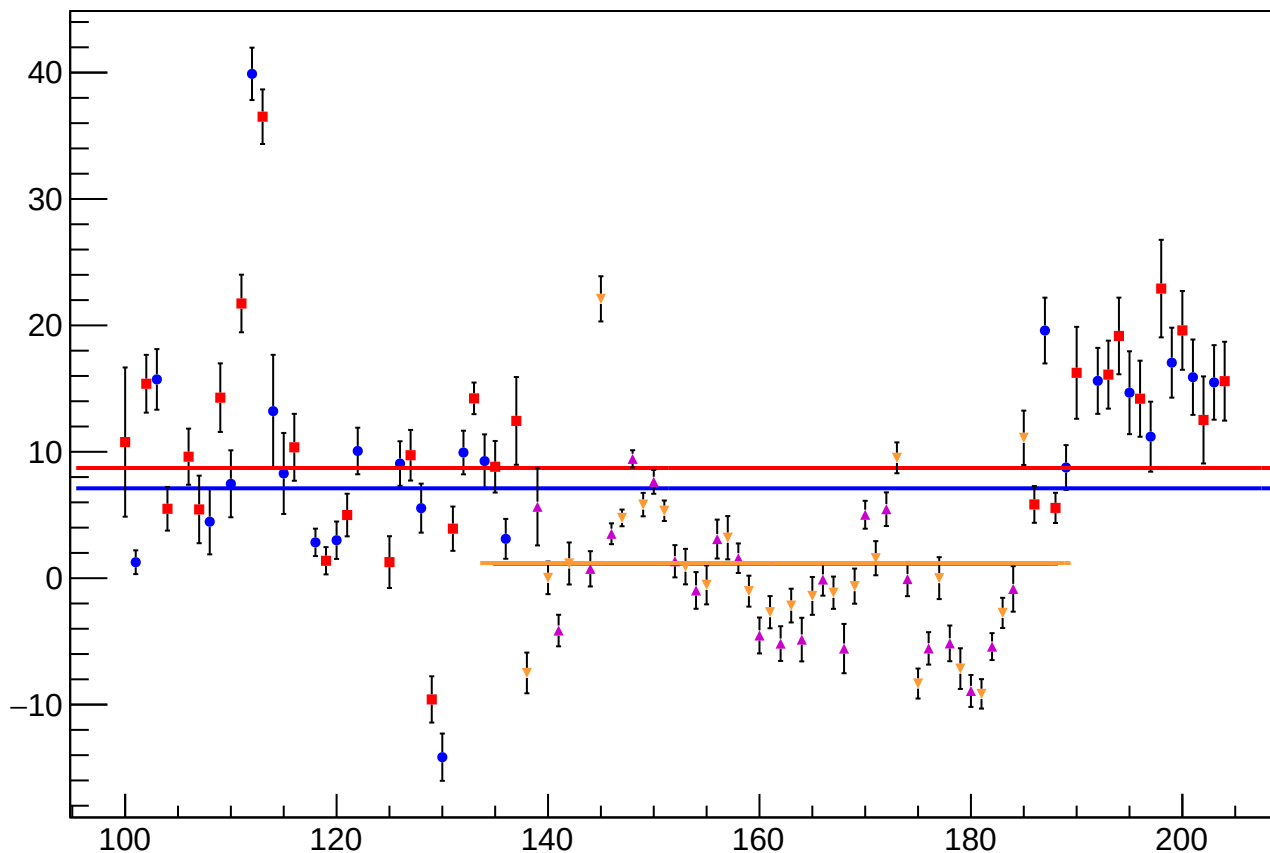
Right: -78.781 ± 0.457 χ^2/NDF : 3785.9/17

In: -63.841 ± 0.305 χ^2/NDF : 3474.5/30

Out: -66.905 ± 0.288 χ^2/NDF : 6030.1/33

All: -65.460 ± 0.209 χ^2/NDF : 9557.9/64

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.111 ± 0.389 $\chi^2/\text{NDF}: 543.8/23$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.717 ± 0.383 $\chi^2/\text{NDF}: 479.1/27$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

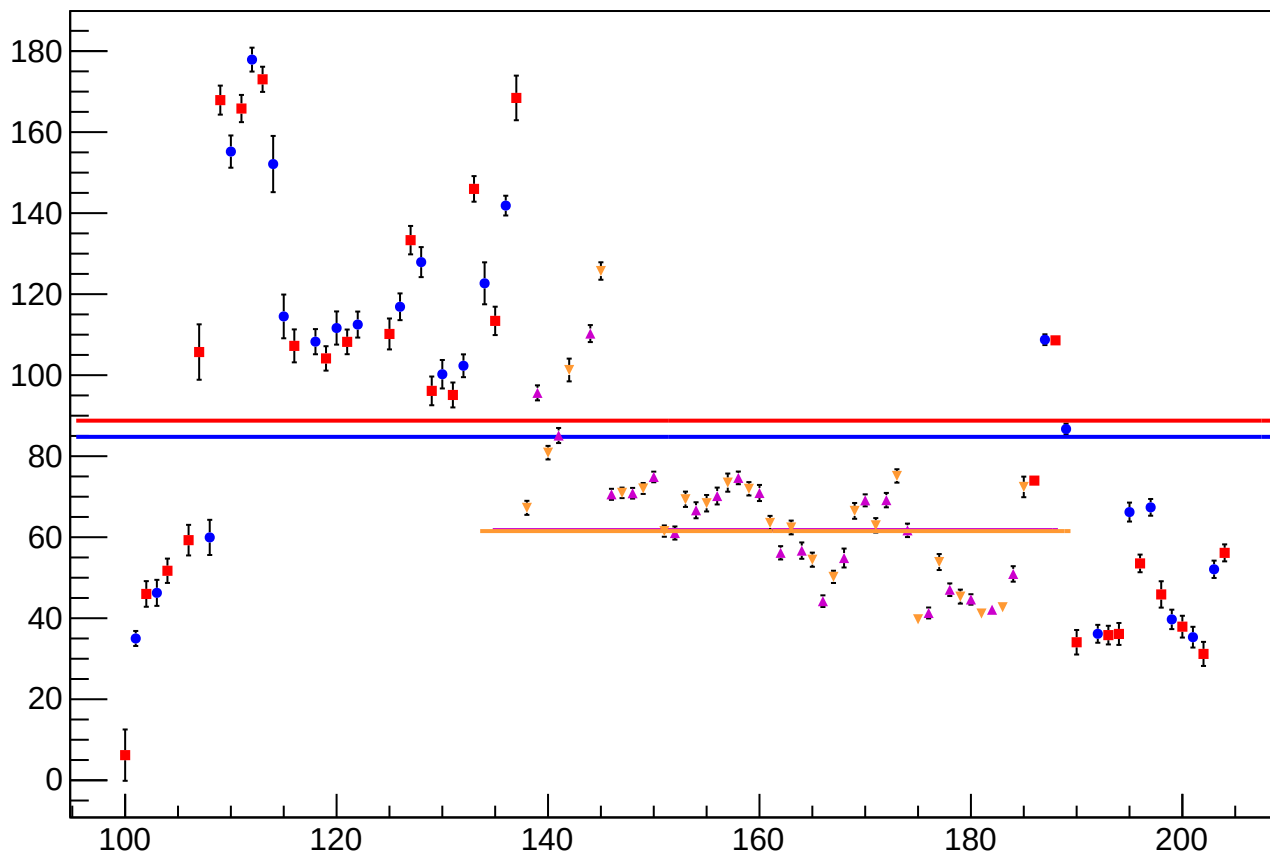
Right: 7.928 ± 0.273 $\chi^2/\text{NDF}: 1031.5/51$

In: 2.942 ± 0.213 $\chi^2/\text{NDF}: 1171.1/46$

Out: 3.480 ± 0.211 $\chi^2/\text{NDF}: 1274.4/51$

All: 3.215 ± 0.150 $\chi^2/\text{NDF}: 2448.7/98$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 84.775+/-0.512 χ^2/NDF : 5303.0/23

Left Out: 61.512+/-0.332 χ^2/NDF : 2606.0/23

Right Out: 88.775+/-0.414 χ^2/NDF : 6902.4/27

Left In: 61.762+/-0.330 χ^2/NDF : 2418.2/22

Left: 61.638+/-0.234 χ^2/NDF : 5024.5/46

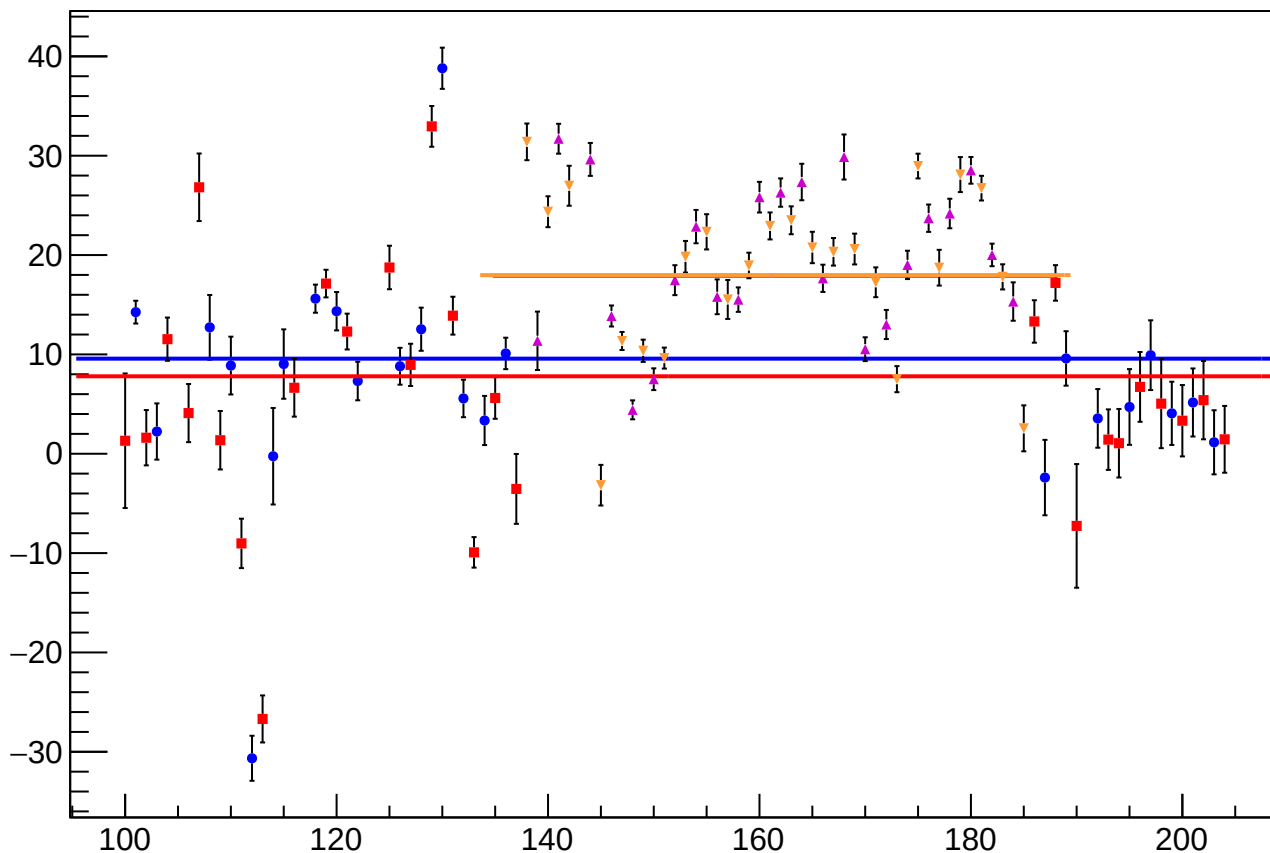
Right: 87.197+/-0.322 χ^2/NDF : 12242.4/51

In: 68.507+/-0.277 χ^2/NDF : 9147.0/46

Out: 72.208+/-0.259 χ^2/NDF : 12148.9/51

All: 70.484+/-0.189 χ^2/NDF : 21391.0/98

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.573 ± 0.458 χ^2/NDF : 608.3/23

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.796 ± 0.459 χ^2/NDF : 741.2/27

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

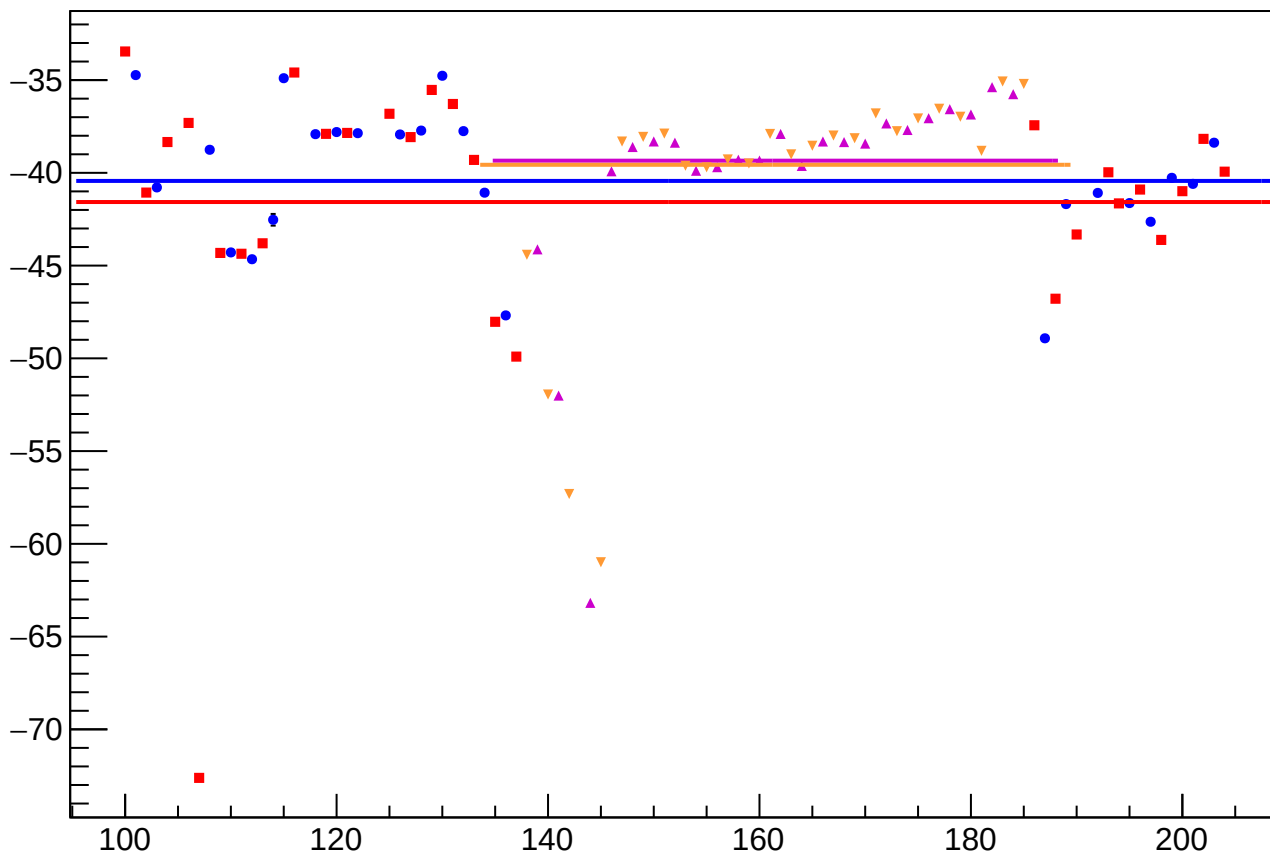
Right: 8.687 ± 0.324 χ^2/NDF : 1357.0/51

In: 15.498 ± 0.246 χ^2/NDF : 1570.9/46

Out: 15.060 ± 0.246 χ^2/NDF : 1767.1/51

All: 15.278 ± 0.174 χ^2/NDF : 3339.5/98

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.436 ± 0.023 $\chi^2/\text{NDF}: 27656.9/23$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.573 ± 0.022 $\chi^2/\text{NDF}: 67325.6/27$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

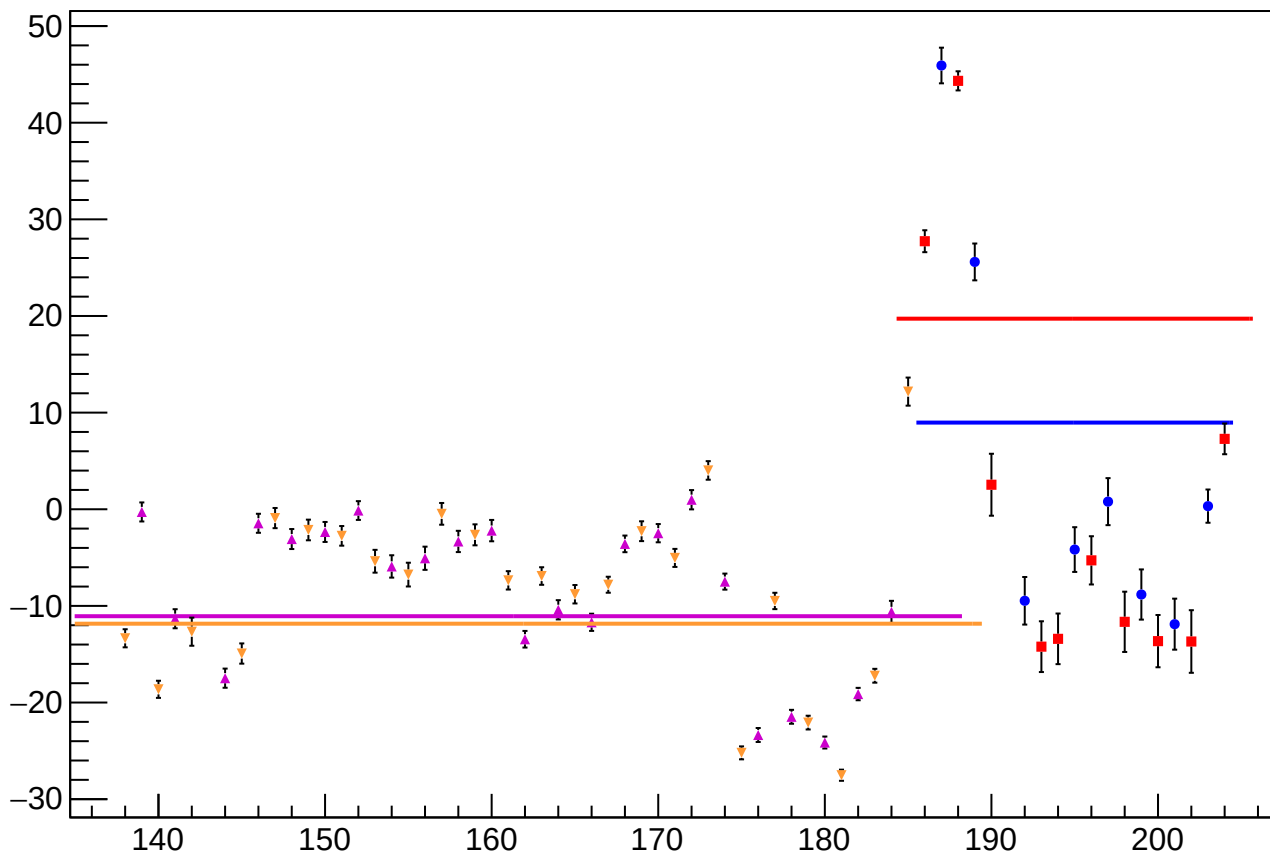
Right: -41.018 ± 0.016 $\chi^2/\text{NDF}: 96232.1/51$

In: -39.626 ± 0.012 $\chi^2/\text{NDF}: 145938.6/46$

Out: -40.112 ± 0.012 $\chi^2/\text{NDF}: 214332.0/51$

All: -39.869 ± 0.008 $\chi^2/\text{NDF}: 361130.9/98$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



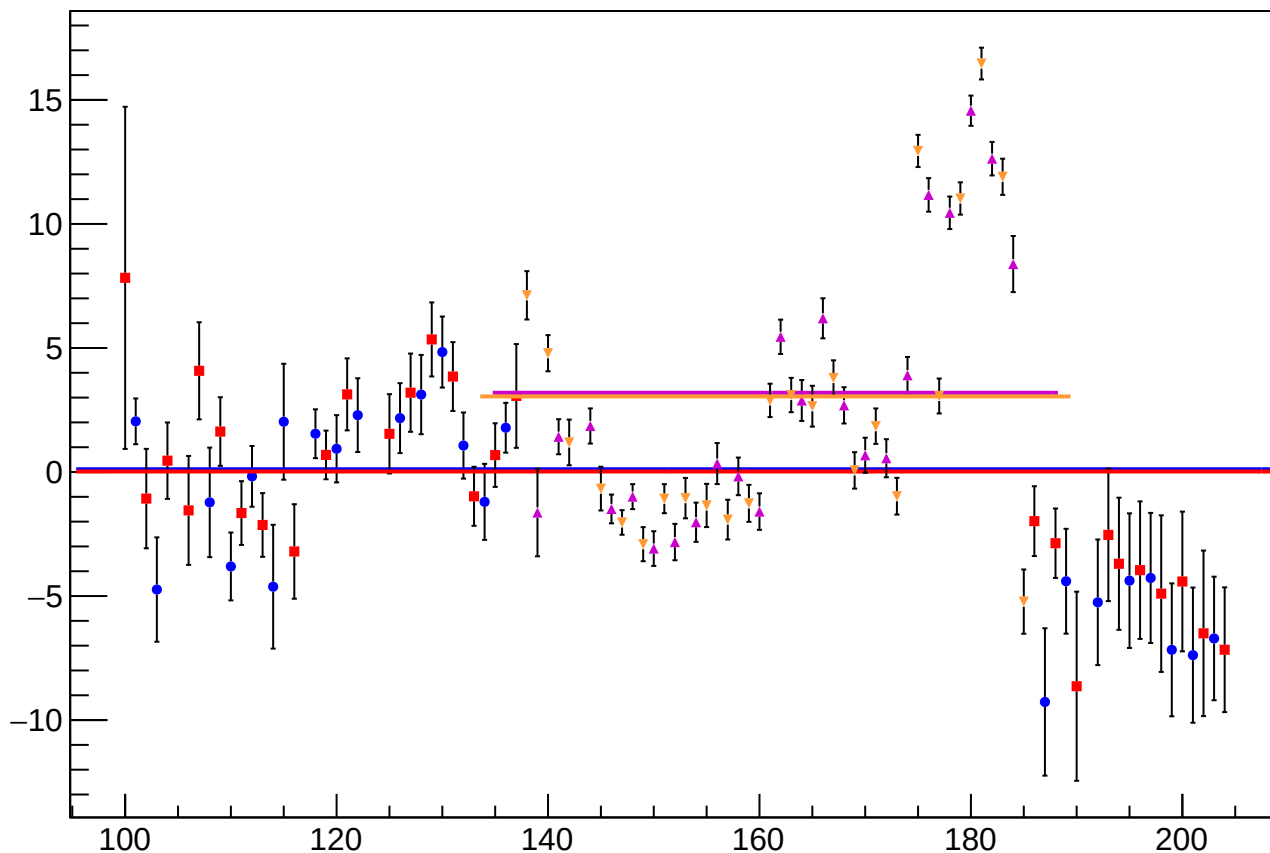
Right In: 8.969 ± 0.763 $\chi^2/\text{NDF}: 711.5/7$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 19.721 ± 0.570 $\chi^2/\text{NDF}: 1544.8/9$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 15.866 ± 0.457 $\chi^2/\text{NDF}: 2383.8/17$

In: -9.919 ± 0.183 $\chi^2/\text{NDF}: 3467.1/30$
 Out: -8.782 ± 0.178 $\chi^2/\text{NDF}: 7052.2/33$

All: -9.335 ± 0.127 $\chi^2/\text{NDF}: 10539.2/64$

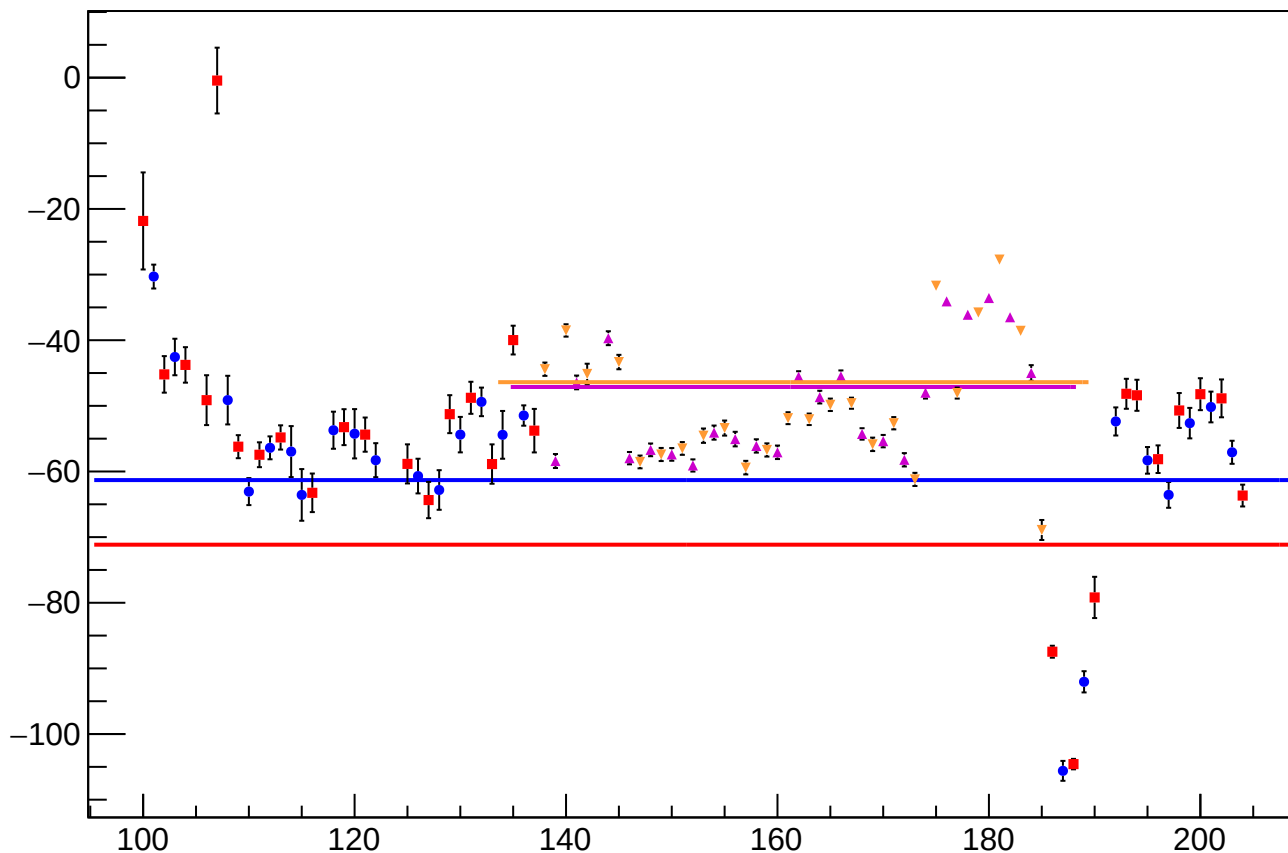
reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.111 ± 0.320 $\chi^2/\text{NDF}: 94.8/23$
 Left Out: 3.047 ± 0.148 $\chi^2/\text{NDF}: 1457.2/23$
 Right Out: 0.020 ± 0.317 $\chi^2/\text{NDF}: 81.9/27$
 Left In: 3.194 ± 0.150 $\chi^2/\text{NDF}: 1295.0/22$

Left: 3.119 ± 0.105 $\chi^2/\text{NDF}: 2752.7/46$
 Right: 0.065 ± 0.225 $\chi^2/\text{NDF}: 176.8/51$
 In: 2.640 ± 0.136 $\chi^2/\text{NDF}: 1465.8/46$
 Out: 2.506 ± 0.134 $\chi^2/\text{NDF}: 1614.1/51$
 All: 2.572 ± 0.095 $\chi^2/\text{NDF}: 3080.4/98$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -61.310 ± 0.453 χ^2/NDF : 1728.6/23

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -71.151 ± 0.381 χ^2/NDF : 3704.8/27

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

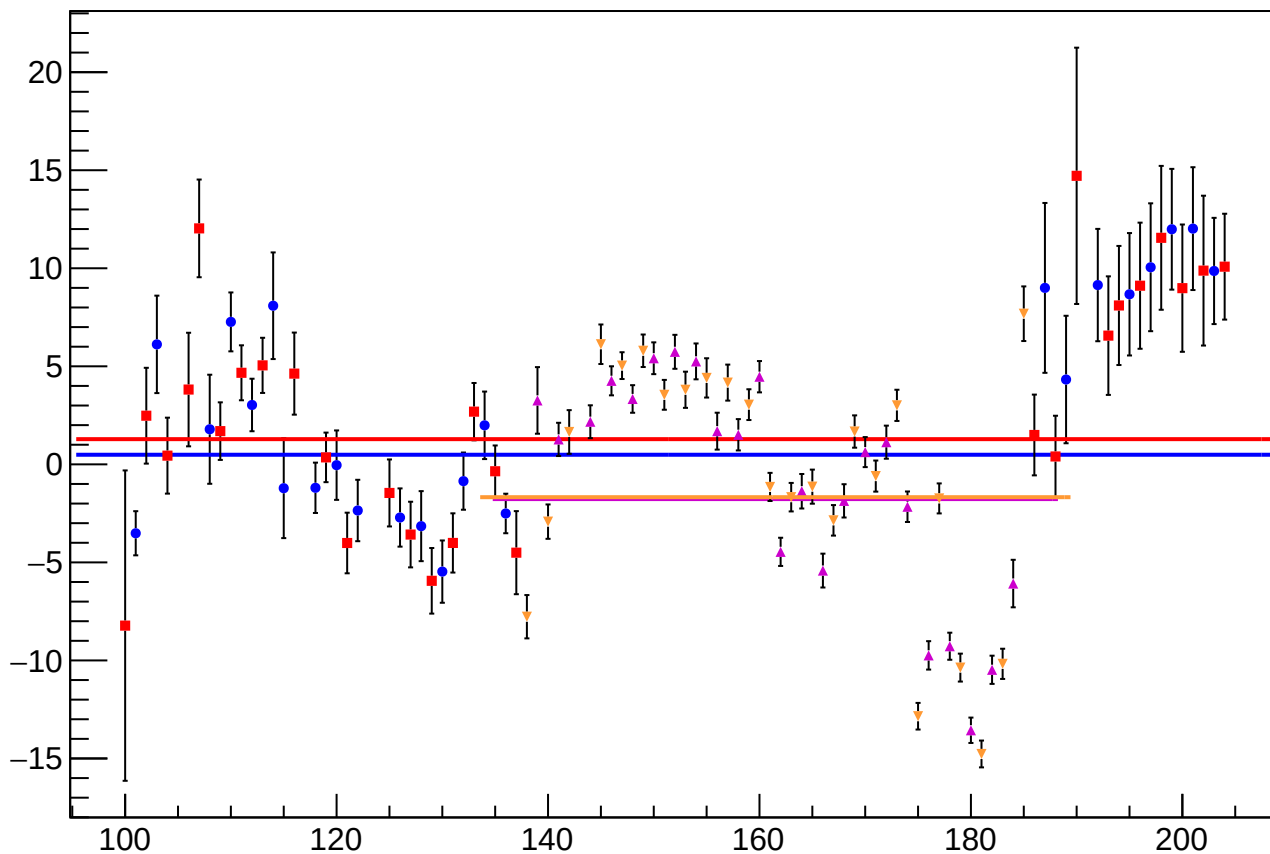
Right: -67.079 ± 0.292 χ^2/NDF : 5709.7/51

In: -49.194 ± 0.173 χ^2/NDF : 5081.0/46

Out: -51.184 ± 0.168 χ^2/NDF : 10399.8/51

All: -50.221 ± 0.120 χ^2/NDF : 15549.1/98

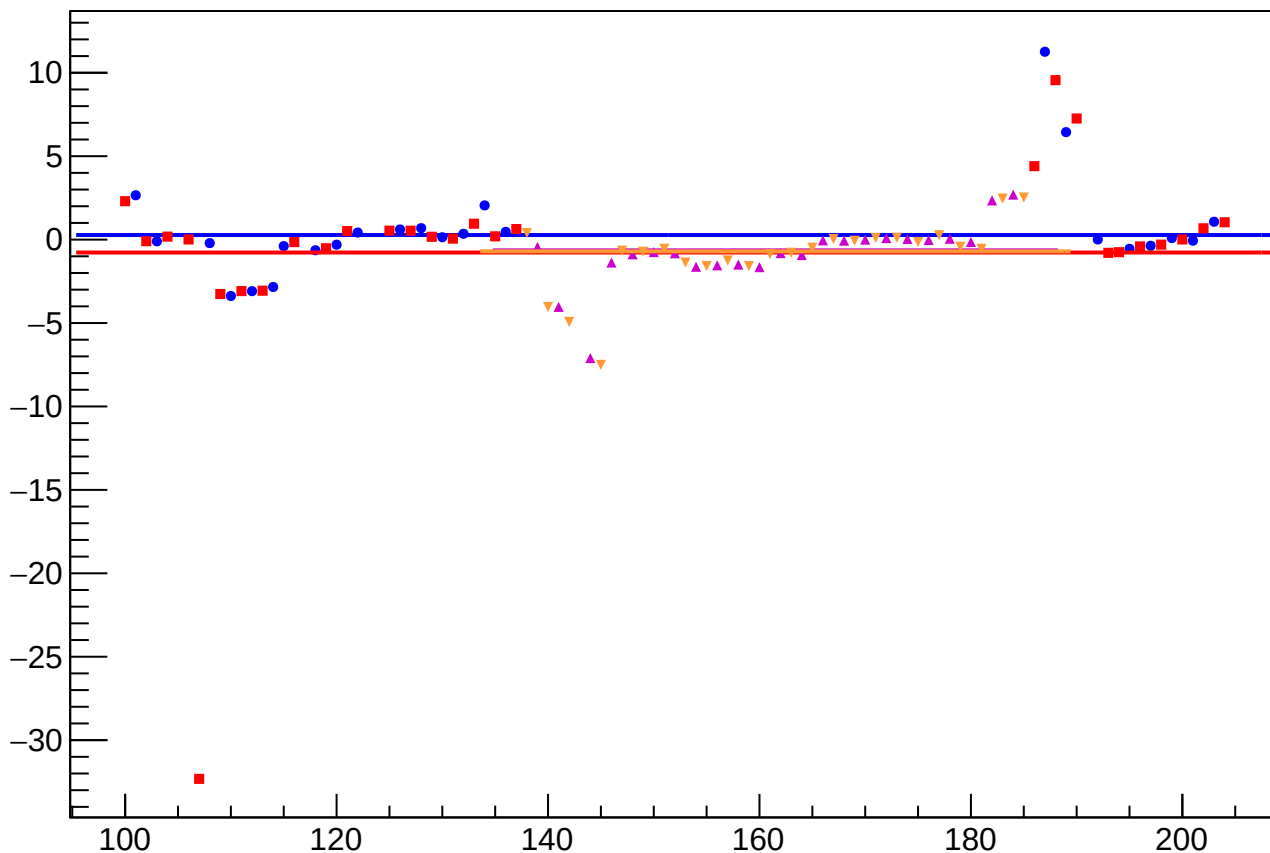
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.490 ± 0.366 χ^2/NDF : 158.0/23
 Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23
 Right Out: 1.285 ± 0.367 χ^2/NDF : 148.6/27
 Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46
 Right: 0.886 ± 0.259 χ^2/NDF : 308.9/51
 In: -1.374 ± 0.153 χ^2/NDF : 1440.7/46
 Out: -1.167 ± 0.152 χ^2/NDF : 1686.3/51
 All: -1.270 ± 0.108 χ^2/NDF : 3127.9/98

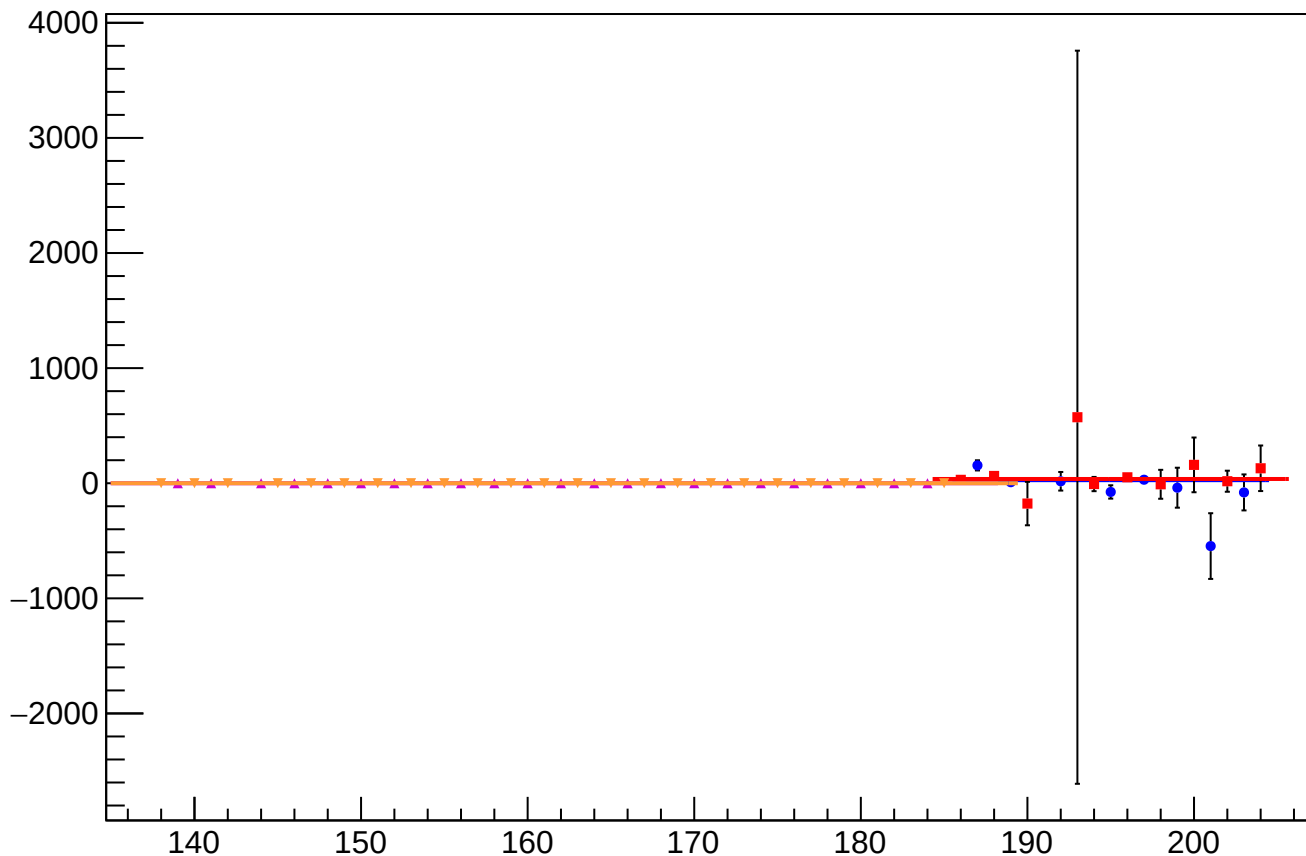
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.275 ± 0.019 $\chi^2/\text{NDF}: 9304.8/23$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.773 ± 0.018 $\chi^2/\text{NDF}: 92798.3/27$
 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: -0.255 ± 0.013 $\chi^2/\text{NDF}: 103703.7/51$
 In: -0.511 ± 0.007 $\chi^2/\text{NDF}: 55554.8/46$
 Out: -0.712 ± 0.007 $\chi^2/\text{NDF}: 146645.8/51$
 All: -0.612 ± 0.005 $\chi^2/\text{NDF}: 202605.7/98$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 26.613+/-18.647 χ^2/NDF : 16.6/7

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 36.949+/-9.899 χ^2/NDF : 4.6/9

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

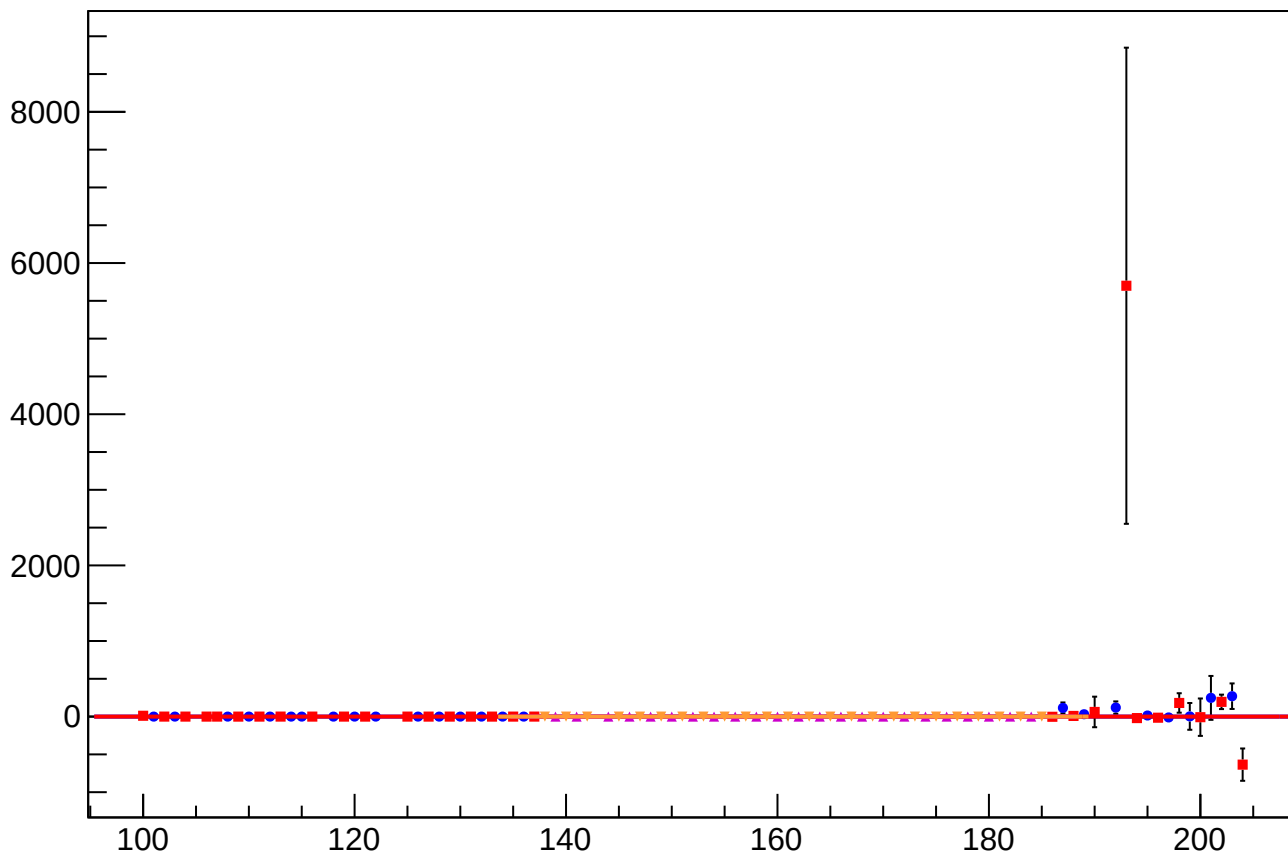
Right: 34.677+/-8.744 χ^2/NDF : 21.4/17

In: -0.010+/-0.018 χ^2/NDF : 53.8/30

Out: -0.037+/-0.018 χ^2/NDF : 53.9/33

All: -0.024+/-0.013 χ^2/NDF : 108.9/64

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 21.1/23$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 31.5/27$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

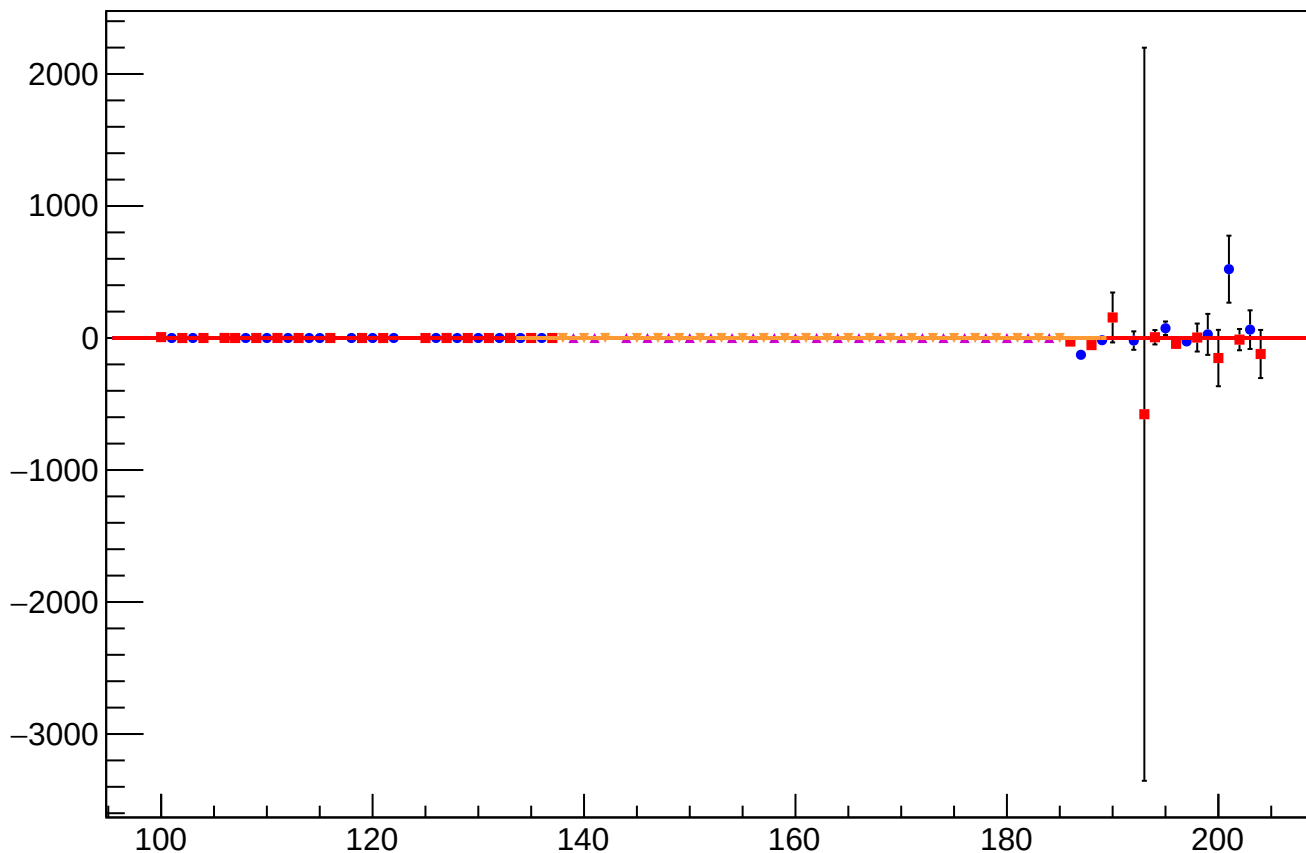
Right: -0.049 ± 0.017 $\chi^2/\text{NDF}: 57.3/51$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 65.5/46$

Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 59.6/51$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 127.4/98$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 29.1/23

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 30.2/27

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

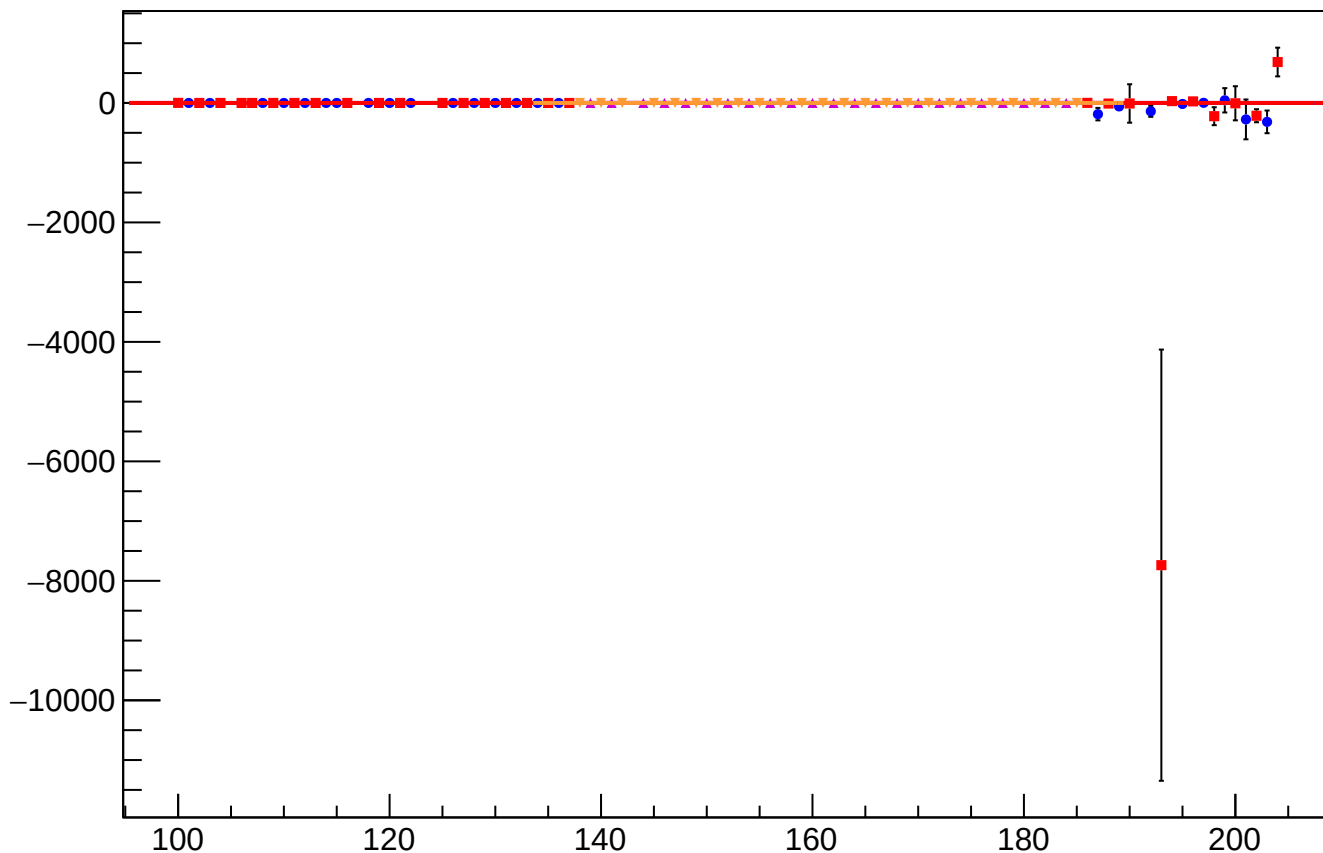
Right: 0.023+/-0.031 χ^2/NDF : 59.4/51

In: -0.005+/-0.017 χ^2/NDF :66.3/46

Out: 0.035+/-0.017 χ^2/NDF :62.4/51

All: 0.015+/-0.012 χ^2/NDF : 131.5/98

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 22.1/23

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 27.3/27

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

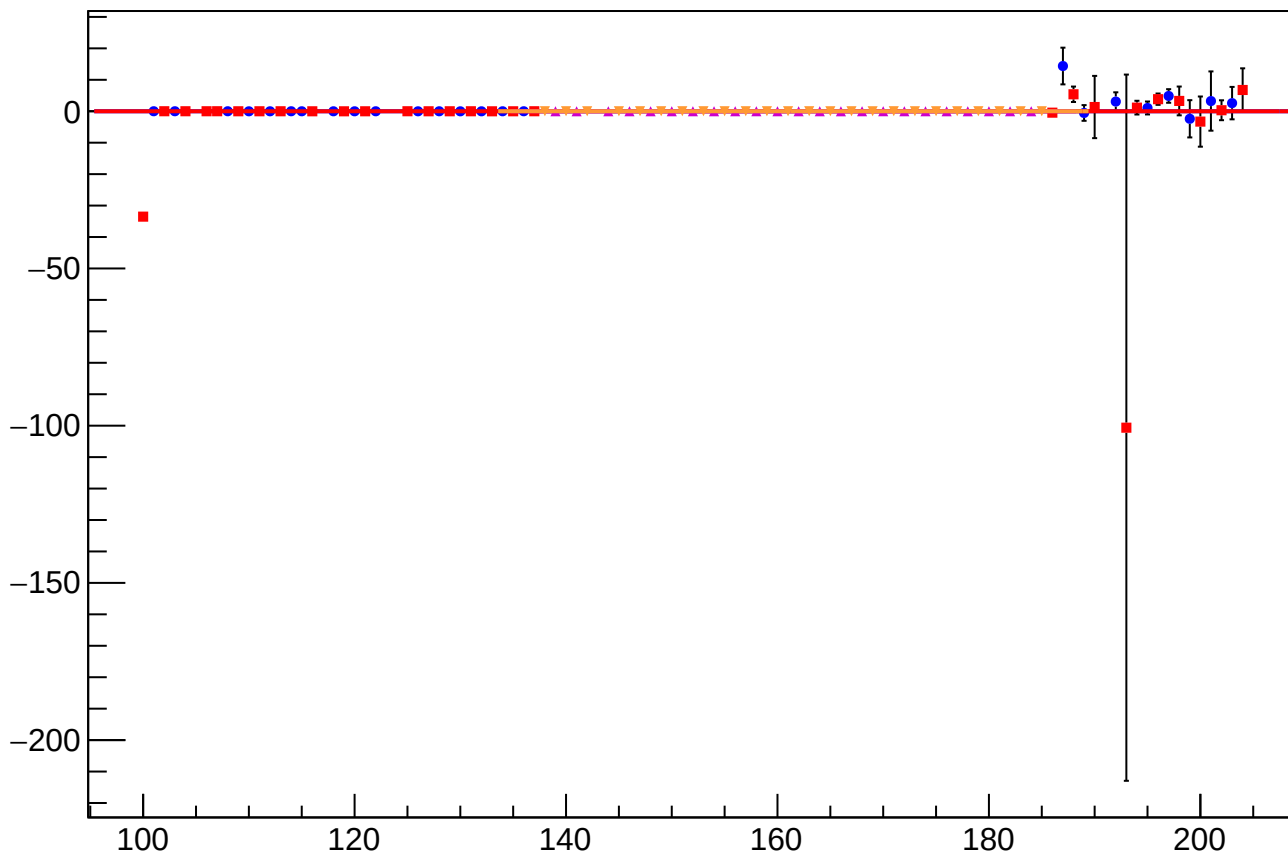
Right: 0.054+/-0.020 χ^2/NDF : 55.4/51

In: 0.053+/-0.014 χ^2/NDF : 70.6/46

Out: 0.091+/-0.014 χ^2/NDF : 55.3/51

All: 0.072+/-0.010 χ^2/NDF : 129.5/98

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001 χ^2 /NDF: 34.6/23

Left Out: 0.000 $\pm$ 0.001 χ^2 /NDF:23.6/23

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 26521.2/27

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

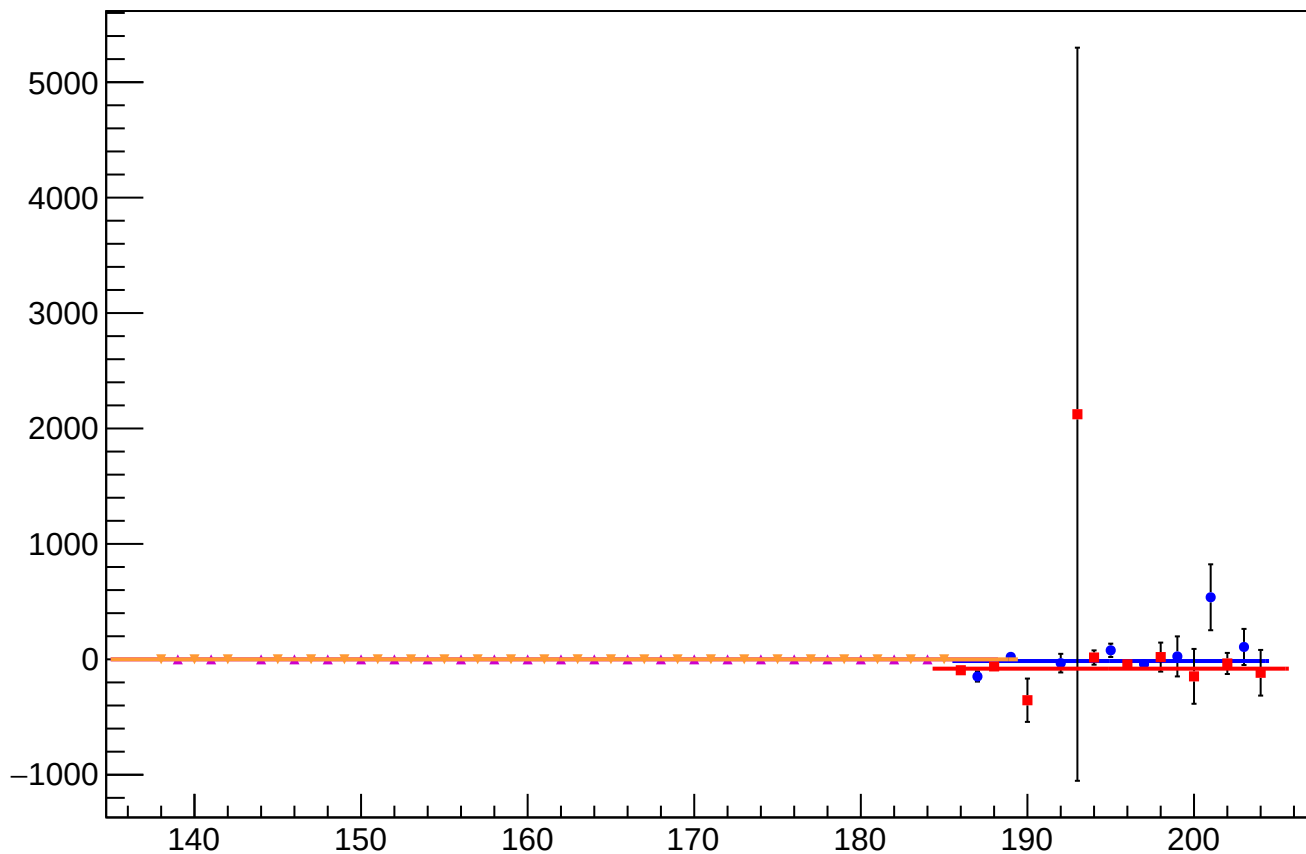
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 26555.9/51

In: -0.001 $\pm$ 0.001 χ^2 /NDF:68.6/46

Out: -0.001 $\pm$ 0.001 χ^2 /NDF:26559.9/51

All: -0.001 $\pm$ 0.000 χ^2 /NDF: 26628.5/98

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.648 ± 18.638 $\chi^2/\text{NDF}: 18.3/7$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -80.807 ± 9.902 $\chi^2/\text{NDF}: 9.0/9$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

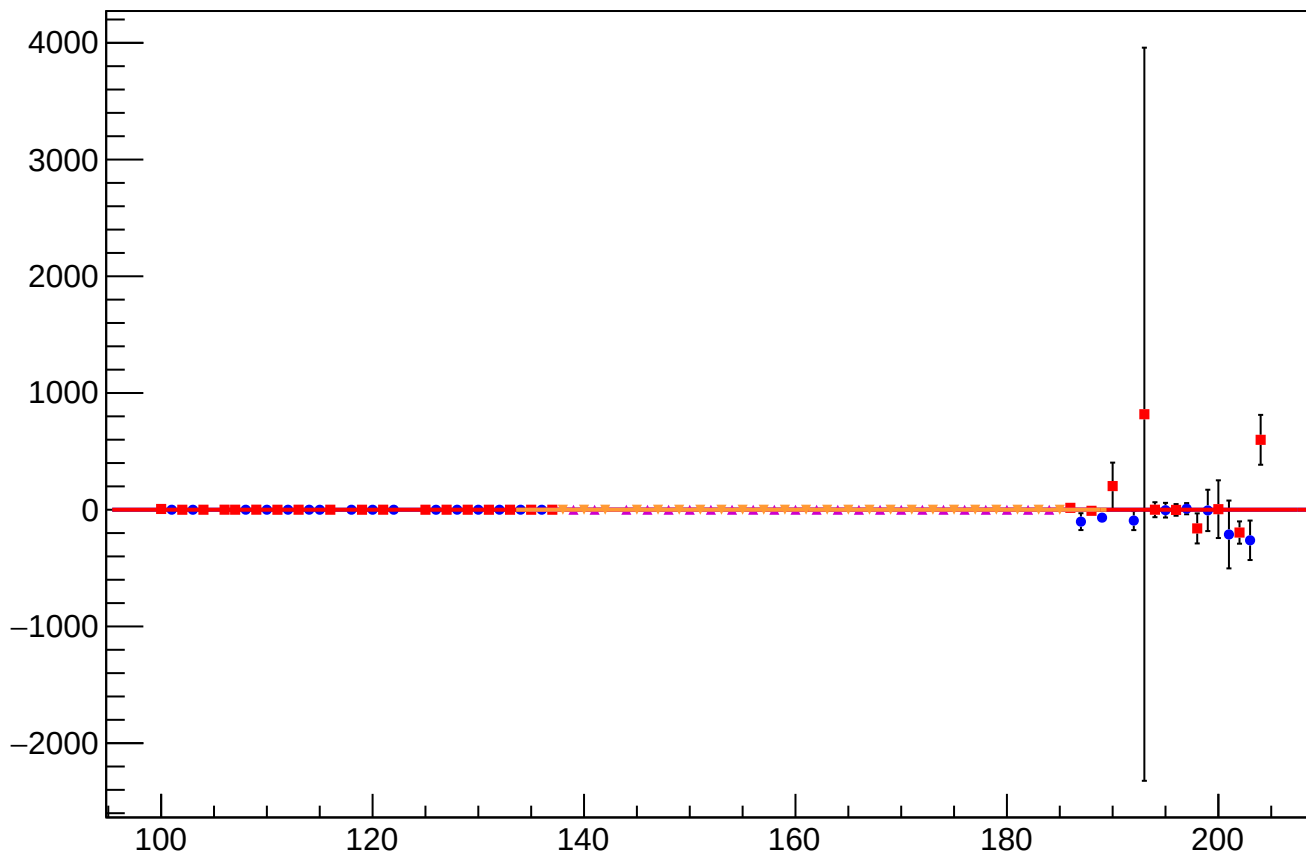
Right: -66.244 ± 8.744 $\chi^2/\text{NDF}: 37.1/17$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 54.0/30$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 112.9/33$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 169.7/64$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023 χ^2 /NDF: 36.0/23

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 44.6/27

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

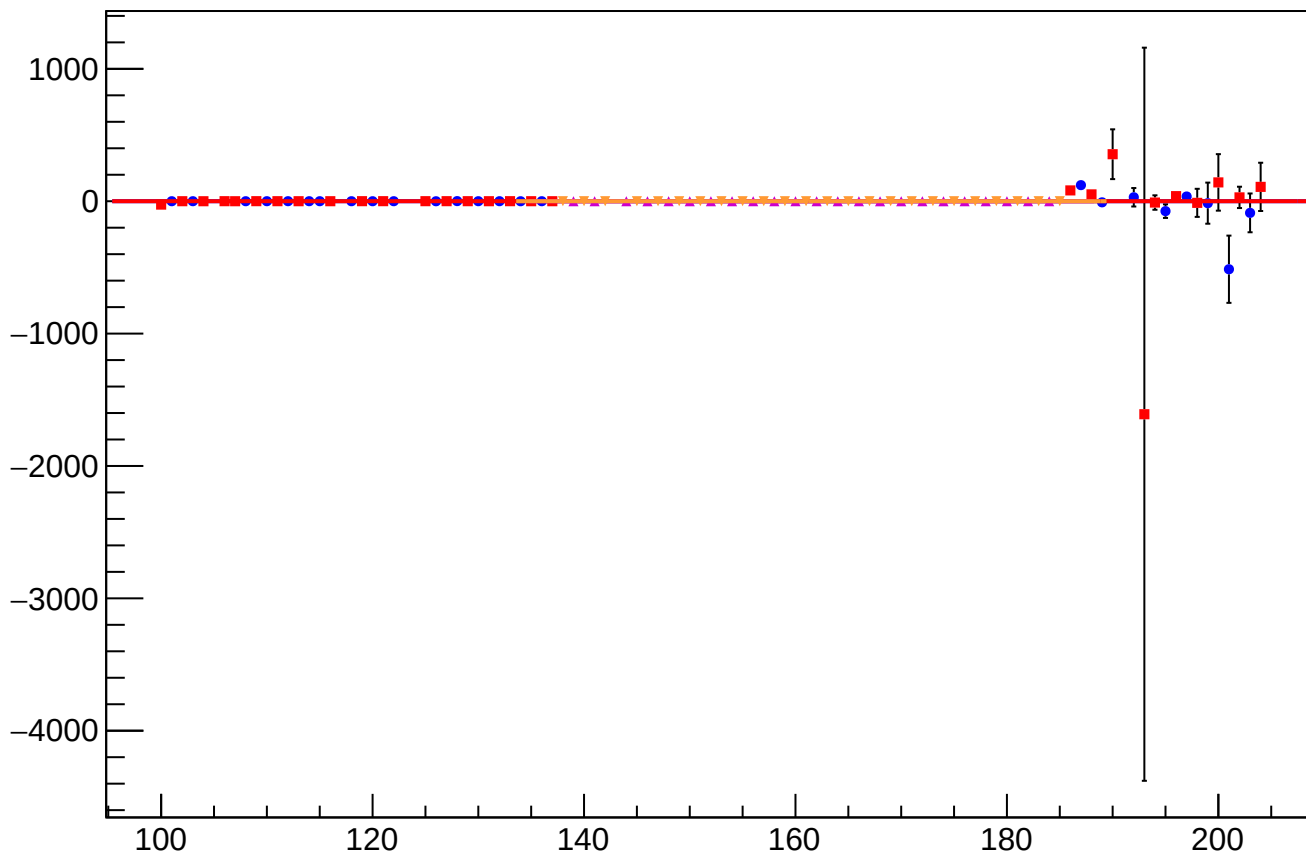
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 81.3/51

In: 0.006 $\pm$ 0.012 χ^2 /NDF:85.5/46

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:77.0/51

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 162.6/98

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 49.0/23

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.0/27

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

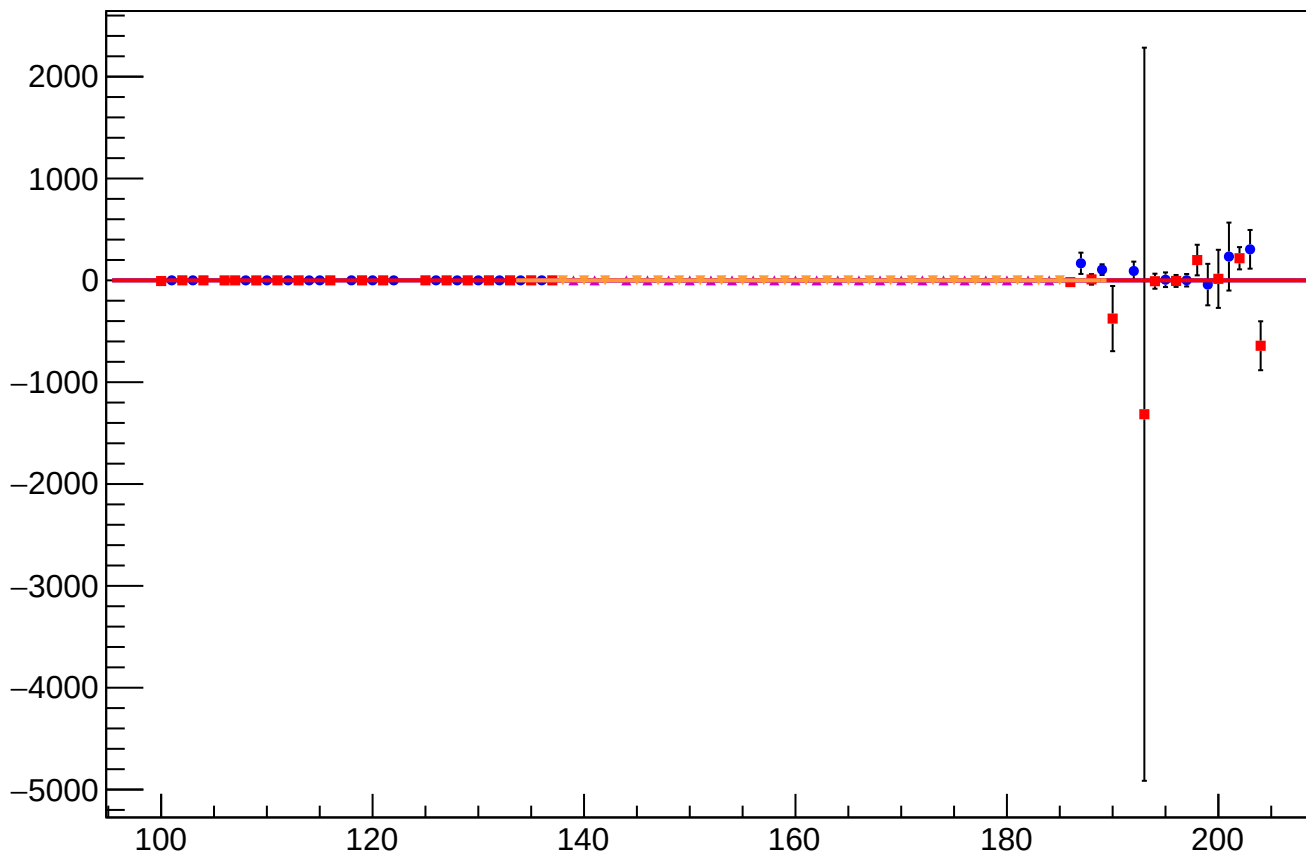
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 157.4/51

In: 0.040 $\pm$ 0.017 χ^2 /NDF:93.4/46

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:152.9/51

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 247.7/98

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 35.4/23

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 41.3/27

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

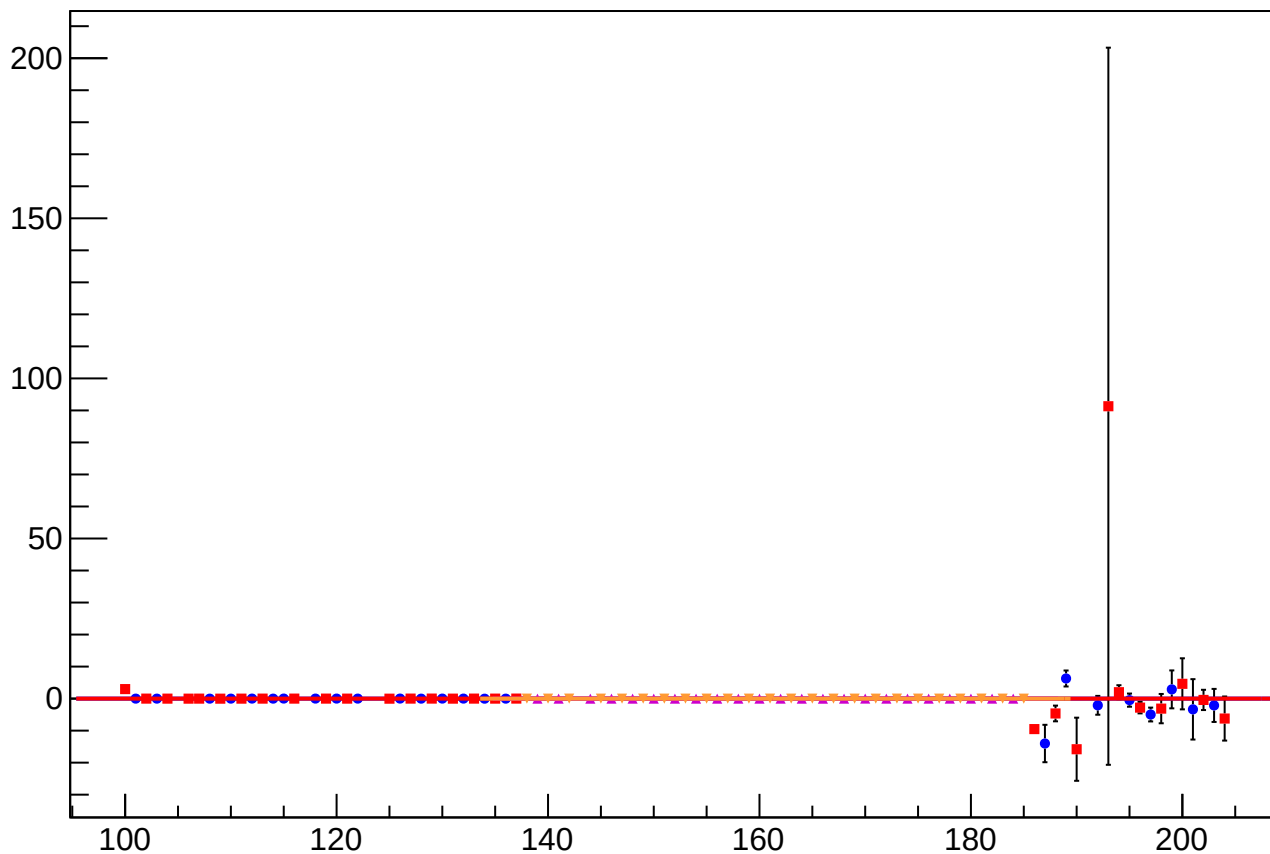
Right: -0.027 ± 0.020 χ^2/NDF : 77.5/51

In: 0.002 ± 0.014 χ^2/NDF : 85.7/46

Out: 0.005 ± 0.014 χ^2/NDF : 78.9/51

All: 0.004 ± 0.010 χ^2/NDF : 164.7/98

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 45.9/23

Left Out: -0.008+/-0.001 χ^2/NDF :32.0/23

Right Out: -0.006+/-0.001 χ^2/NDF : 214.6/27

Left In: -0.009+/-0.001 χ^2/NDF :37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

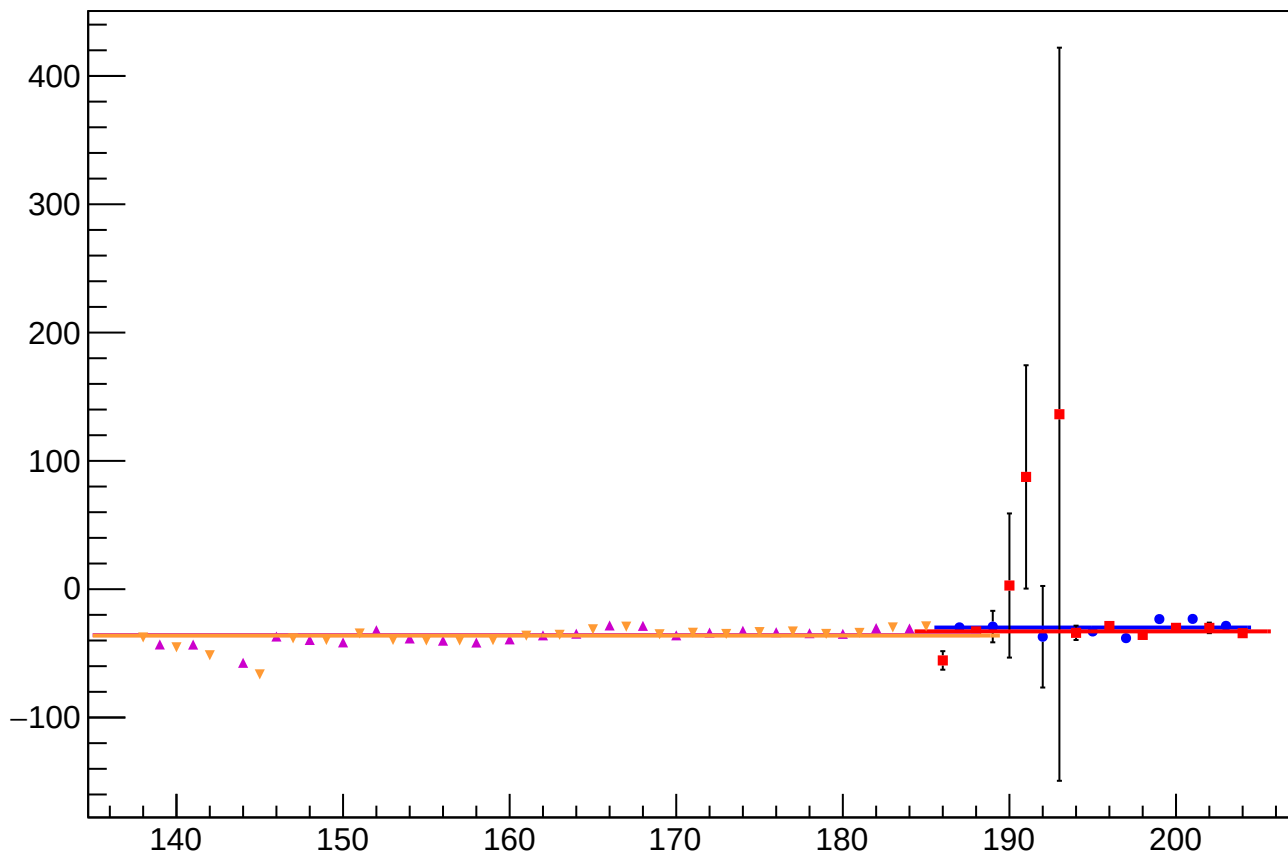
Right: -0.006+/-0.001 χ^2/NDF : 260.5/51

In: -0.008+/-0.001 χ^2/NDF :85.7/46

Out: -0.008+/-0.001 χ^2/NDF :248.6/51

All: -0.008+/-0.000 χ^2/NDF : 334.5/98

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.897 ± 1.040 $\chi^2/\text{NDF}: 19.4/7$

Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$

Right Out: -32.884 ± 0.870 $\chi^2/\text{NDF}: 16.9/10$

Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$

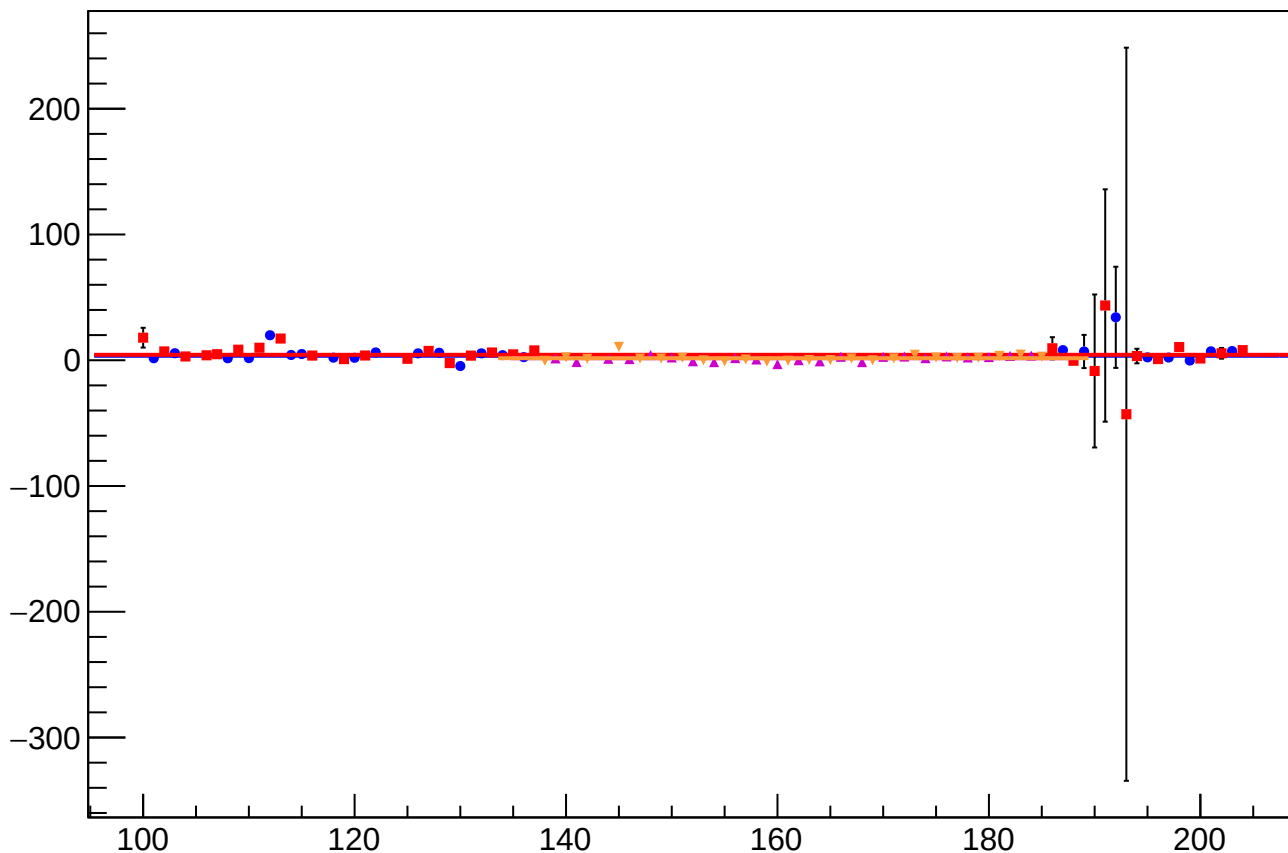
Right: -31.654 ± 0.667 $\chi^2/\text{NDF}: 41.2/18$

In: -35.587 ± 0.188 $\chi^2/\text{NDF}: 904.5/30$

Out: -35.970 ± 0.187 $\chi^2/\text{NDF}: 1145.0/34$

All: -35.779 ± 0.133 $\chi^2/\text{NDF}: 2051.6/65$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.576+/-0.218 χ^2/NDF : 446.8/23

Left Out: 1.634+/-0.148 χ^2/NDF :166.5/23

Right Out: 4.325+/-0.221 χ^2/NDF : 366.6/28

Left In: 1.641+/-0.150 χ^2/NDF :163.2/22

Left: 1.638+/-0.105 χ^2/NDF : 329.7/46

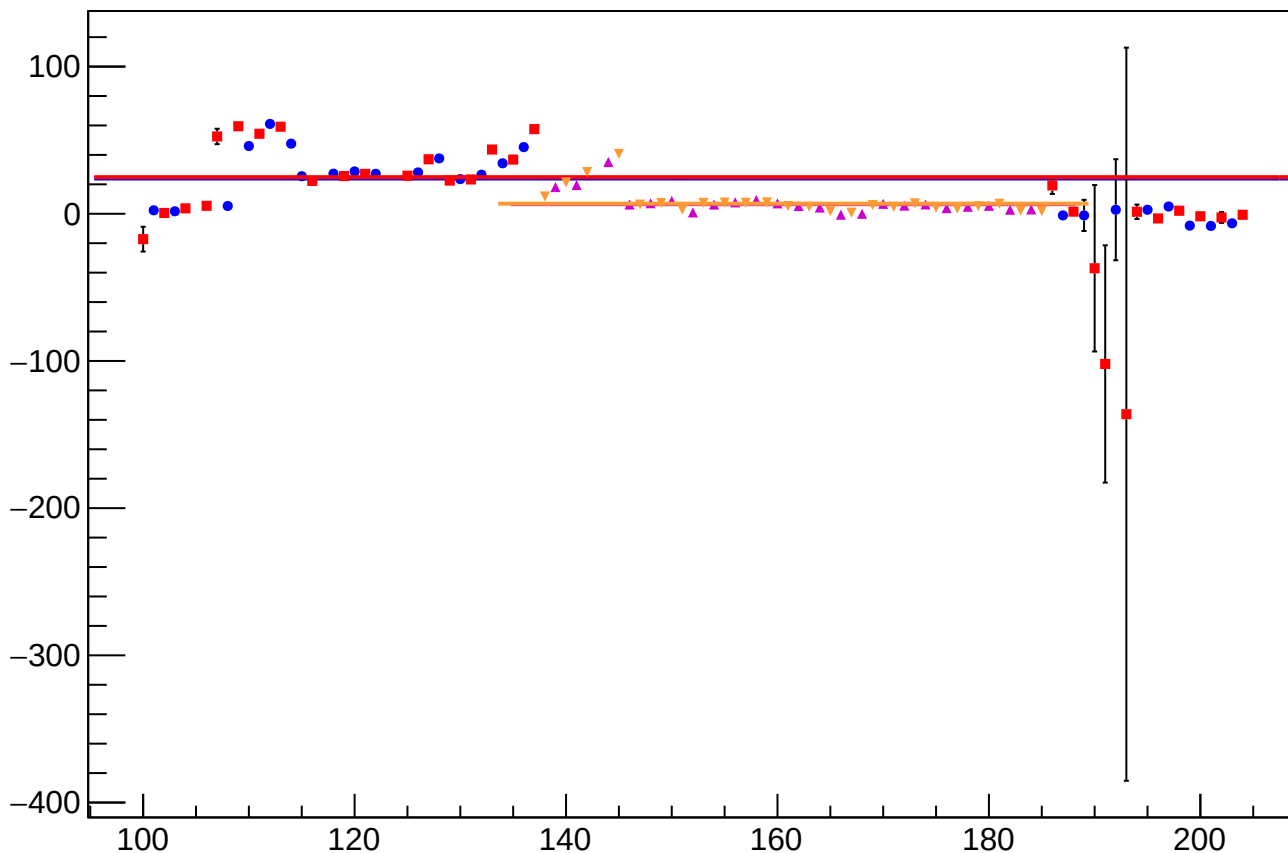
Right: 3.944+/-0.155 χ^2/NDF : 819.2/52

In: 2.262+/-0.123 χ^2/NDF :663.7/46

Out: 2.465+/-0.123 χ^2/NDF :635.4/52

All: 2.364+/-0.087 χ^2/NDF : 1300.5/99

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.959 $\pm$ 0.381 χ^2 /NDF: 2491.3/23

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 24.863 $\pm$ 0.367 χ^2 /NDF: 3093.6/28

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

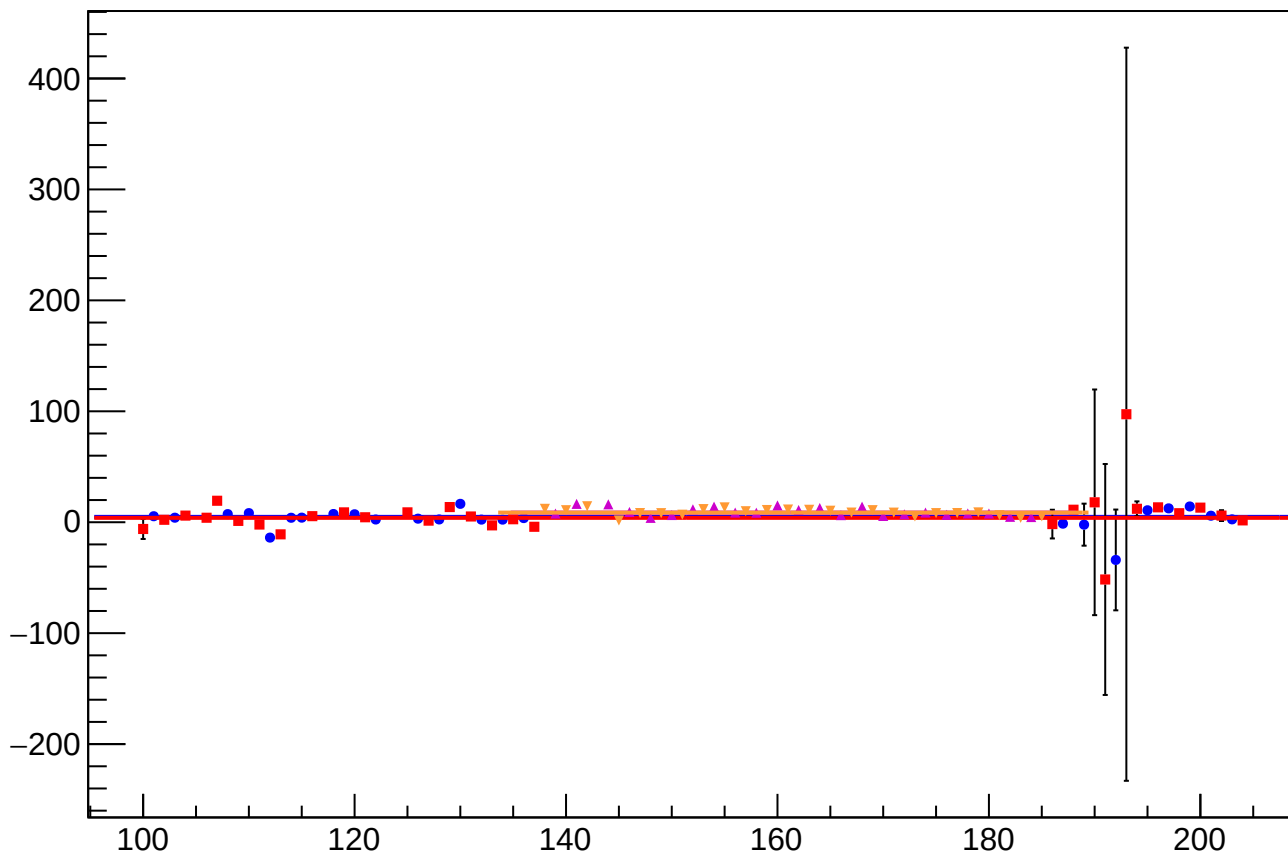
Right: 24.428 $\pm$ 0.265 χ^2 /NDF: 5587.8/52

In: 10.015 $\pm$ 0.170 χ^2 /NDF:5188.7/46

Out: 10.706 $\pm$ 0.170 χ^2 /NDF:6276.2/52

All: 10.362 $\pm$ 0.120 χ^2 /NDF: 11473.1/99

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.831 $\pm$ 0.251 χ^2 /NDF: 563.3/23

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.960 $\pm$ 0.255 χ^2 /NDF: 587.6/28

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

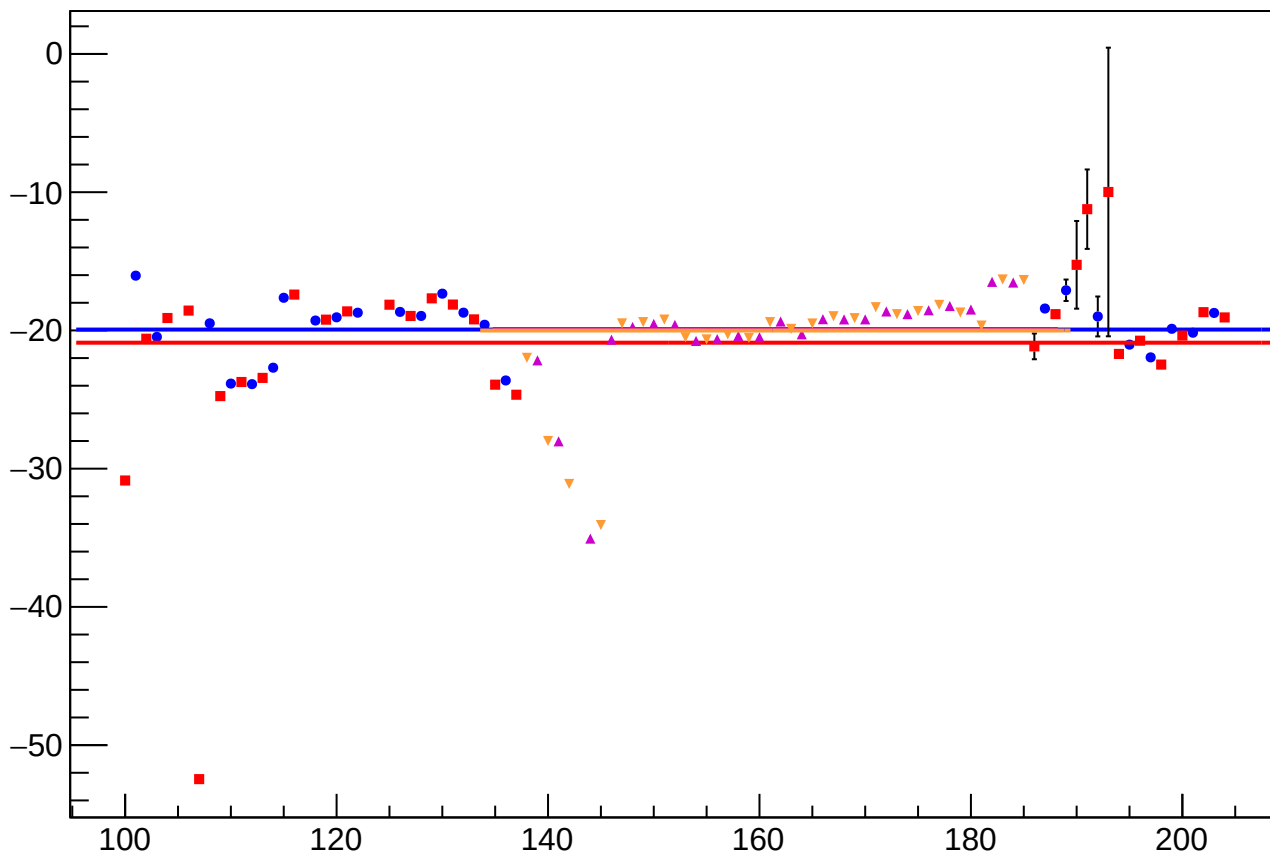
Right: 4.402 $\pm$ 0.179 χ^2 /NDF: 1156.8/52

In: 7.461 $\pm$ 0.141 χ^2 /NDF:1160.0/46

Out: 7.250 $\pm$ 0.141 χ^2 /NDF:1068.0/52

All: 7.356 $\pm$ 0.100 χ^2 /NDF: 2229.1/99

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.937 $\pm$ 0.015 χ^2 /NDF: 26524.3/23

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF: 171763.9/23

Right Out: -20.887 $\pm$ 0.015 χ^2 /NDF: 94815.9/28

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

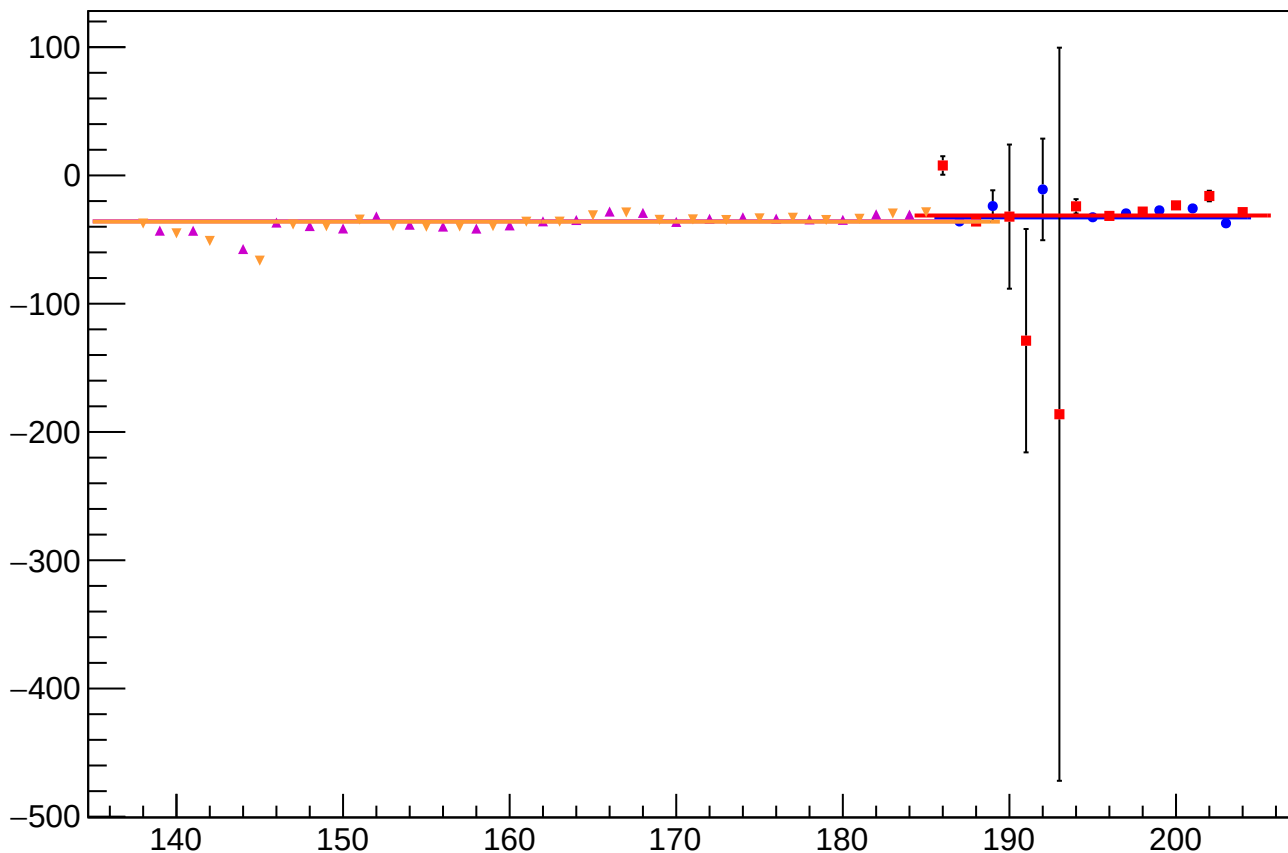
Right: -20.410 $\pm$ 0.011 χ^2 /NDF: 123344.7/52

In: -19.906 $\pm$ 0.007 χ^2 /NDF: 170721.6/46

Out: -20.196 $\pm$ 0.007 χ^2 /NDF: 269274.7/52

All: -20.050 $\pm$ 0.005 χ^2 /NDF: 440860.8/99

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

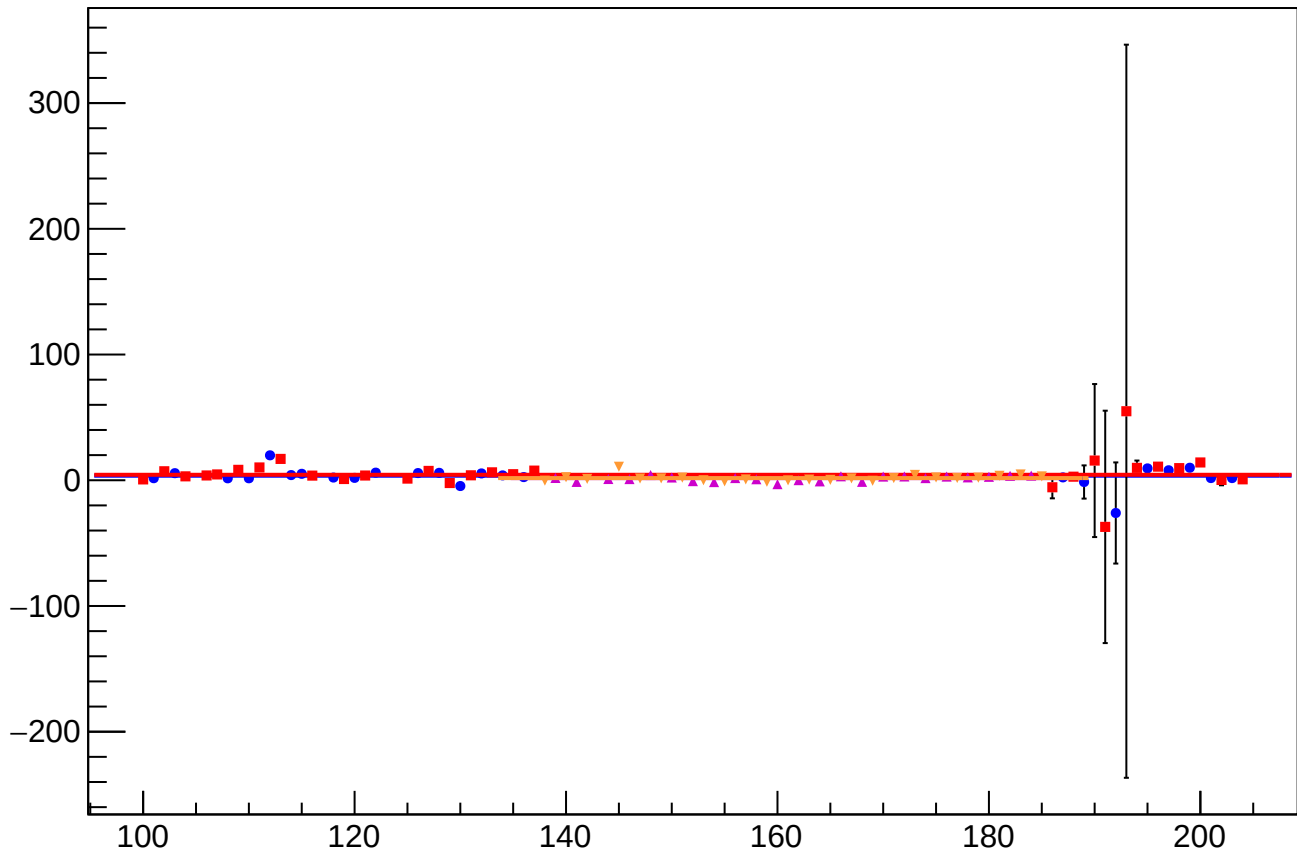


Right In: -32.718 ± 1.043 $\chi^2/\text{NDF}: 16.1/7$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -31.246 ± 0.872 $\chi^2/\text{NDF}: 69.6/10$
 Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$
 Right: -31.852 ± 0.669 $\chi^2/\text{NDF}: 86.9/18$
 In: -35.667 ± 0.188 $\chi^2/\text{NDF}: 866.9/30$
 Out: -35.810 ± 0.187 $\chi^2/\text{NDF}: 1219.6/34$

All: -35.739 ± 0.133 $\chi^2/\text{NDF}: 2086.8/65$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.616 $\pm$ 0.217 χ^2 /NDF: 448.0/23

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.358 $\pm$ 0.218 χ^2 /NDF: 372.0/28

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

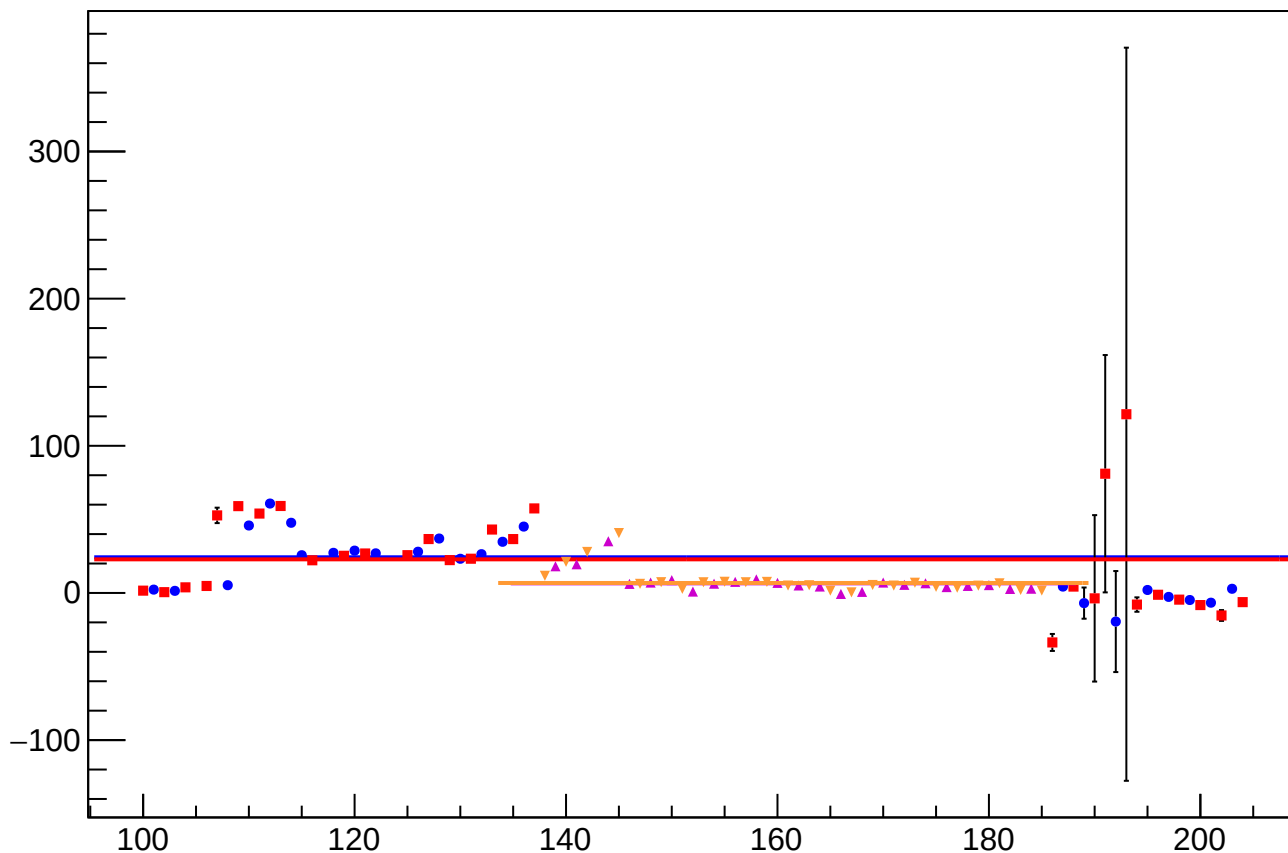
Right: 3.987 $\pm$ 0.154 χ^2 /NDF: 825.7/52

In: 2.318 $\pm$ 0.123 χ^2 /NDF:663.4/46

Out: 2.555 $\pm$ 0.122 χ^2 /NDF:640.5/52

All: 2.437 $\pm$ 0.087 χ^2 /NDF: 1305.7/99

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 24.233+/-0.381 χ^2/NDF : 2333.3/23

Left Out: 6.779+/-0.191 χ^2/NDF :1297.7/23

Right Out: 22.841+/-0.354 χ^2/NDF : 3486.8/28

Left In: 6.532+/-0.190 χ^2/NDF :1018.2/22

Left: 6.655+/-0.135 χ^2/NDF : 2316.7/46

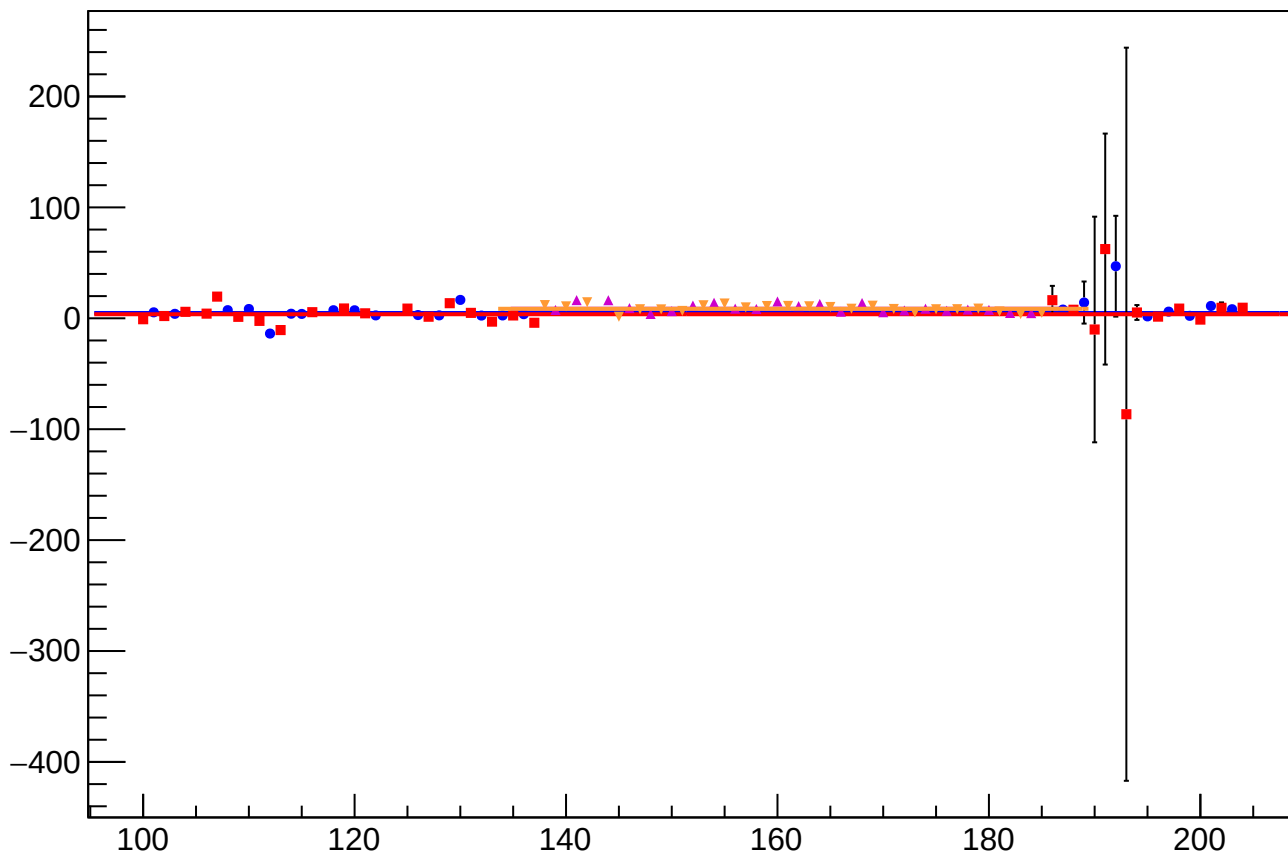
Right: 23.486+/-0.259 χ^2/NDF : 5827.3/52

In: 10.064+/-0.170 χ^2/NDF :5078.0/46

Out: 10.408+/-0.168 χ^2/NDF :6377.5/52

All: 10.238+/-0.120 χ^2/NDF : 11457.6/99

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.784 $\pm$ 0.251 χ^2 /NDF: 549.3/23

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.647 $\pm$ 0.251 χ^2 /NDF: 581.2/28

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

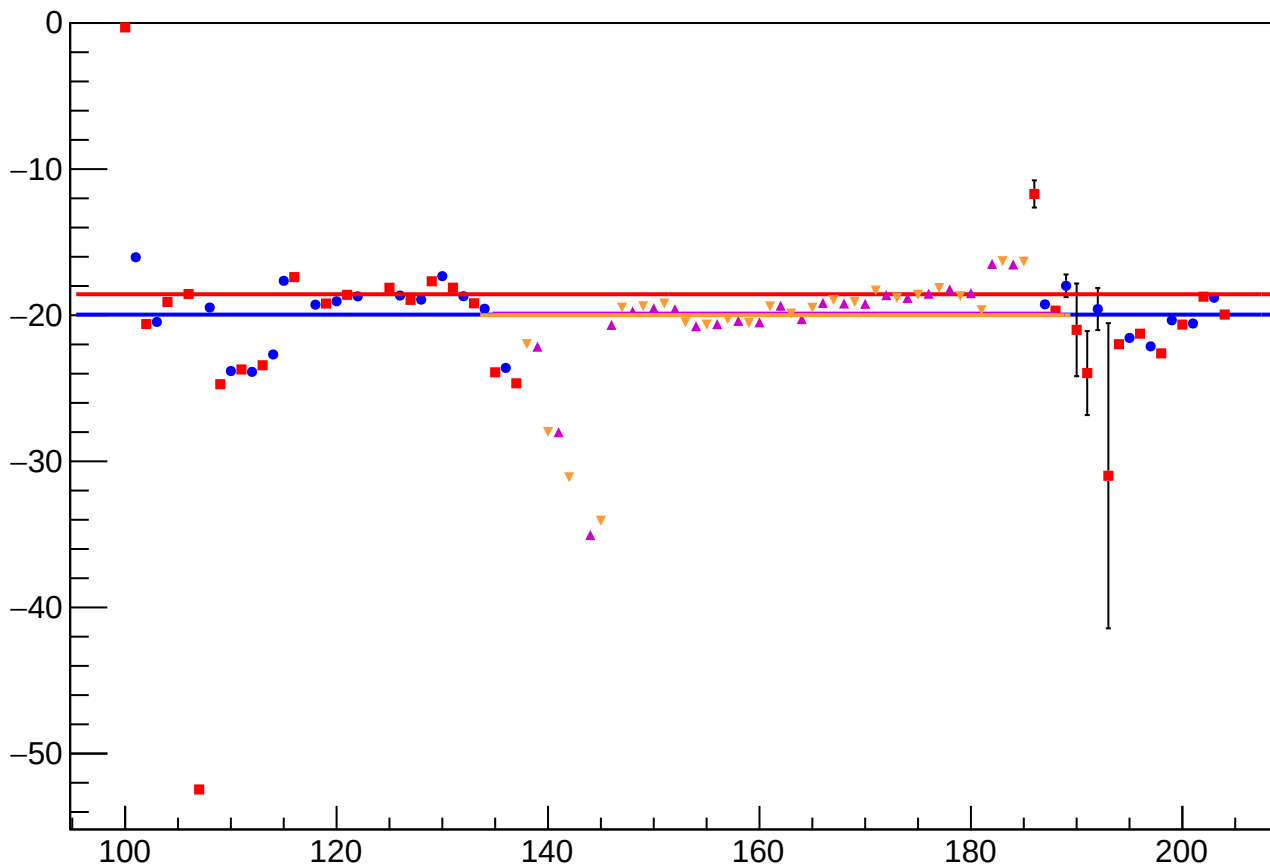
Right: 4.215 $\pm$ 0.177 χ^2 /NDF: 1140.8/52

In: 7.389 $\pm$ 0.141 χ^2 /NDF:1148.2/46

Out: 7.045 $\pm$ 0.140 χ^2 /NDF:1093.5/52

All: 7.216 $\pm$ 0.099 χ^2 /NDF: 2244.7/99

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.958 $\pm$ 0.015 χ^2 /NDF: 26675.7/23

Left Out: -19.998 $\pm$ 0.008 χ^2 /NDF: 171944.6/23

Right Out: -18.563 $\pm$ 0.014 χ^2 /NDF: 303716.5/28

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

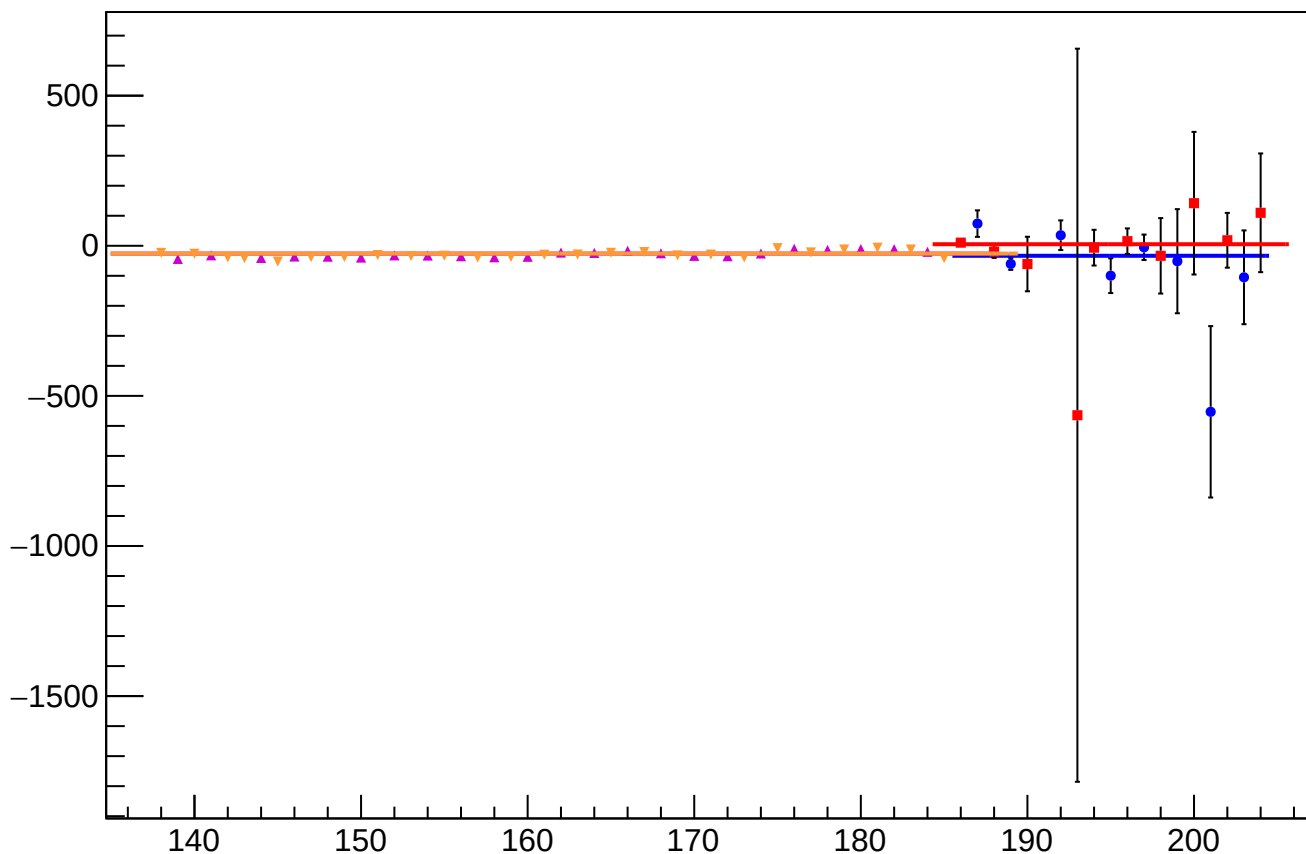
Right: -19.223 $\pm$ 0.010 χ^2 /NDF: 334970.3/52

In: -19.905 $\pm$ 0.007 χ^2 /NDF: 170747.2/46

Out: -19.659 $\pm$ 0.007 χ^2 /NDF: 483479.0/52

All: -19.781 $\pm$ 0.005 χ^2 /NDF: 654859.3/99

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.338 ± 15.048 $\chi^2/\text{NDF}: 15.0/7$

Left Out: -25.884 ± 0.192 $\chi^2/\text{NDF}: 4158.0/24$

Right Out: 5.194 ± 8.251 $\chi^2/\text{NDF}: 3.3/9$

Left In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3279.5/22$

Left: -25.967 ± 0.137 $\chi^2/\text{NDF}: 7437.8/47$

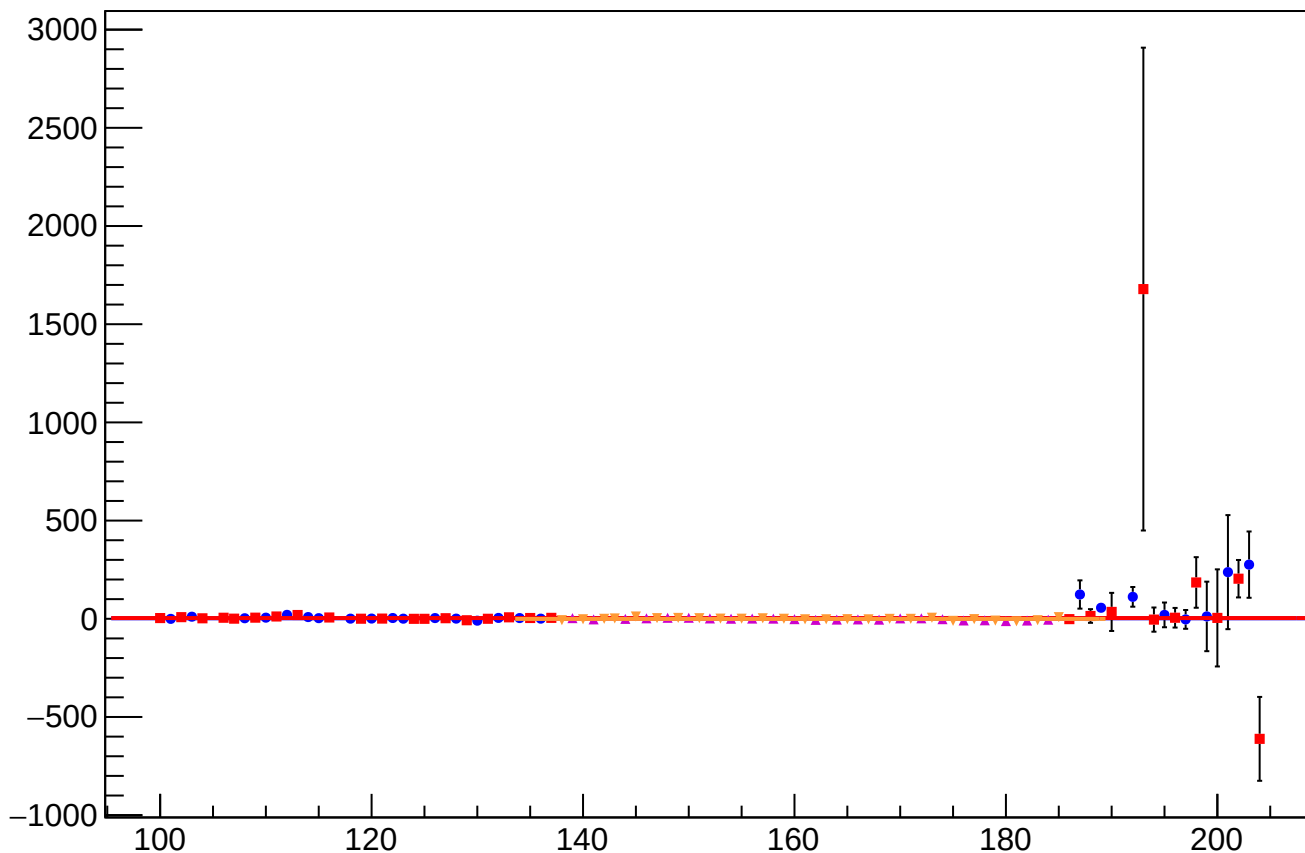
Right: -3.712 ± 7.235 $\chi^2/\text{NDF}: 23.3/17$

In: -26.053 ± 0.195 $\chi^2/\text{NDF}: 3294.7/30$

Out: -25.868 ± 0.192 $\chi^2/\text{NDF}: 4175.4/34$

All: -25.959 ± 0.137 $\chi^2/\text{NDF}: 7470.6/65$

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.473 ± 0.315 $\chi^2/\text{NDF}: 310.9/24$

Left Out: -0.654 ± 0.146 $\chi^2/\text{NDF}: 1320.8/24$

Right Out: 3.713 ± 0.327 $\chi^2/\text{NDF}: 286.1/28$

Left In: -0.863 ± 0.150 $\chi^2/\text{NDF}: 1066.5/22$

Left: -0.756 ± 0.105 $\chi^2/\text{NDF}: 2388.3/47$

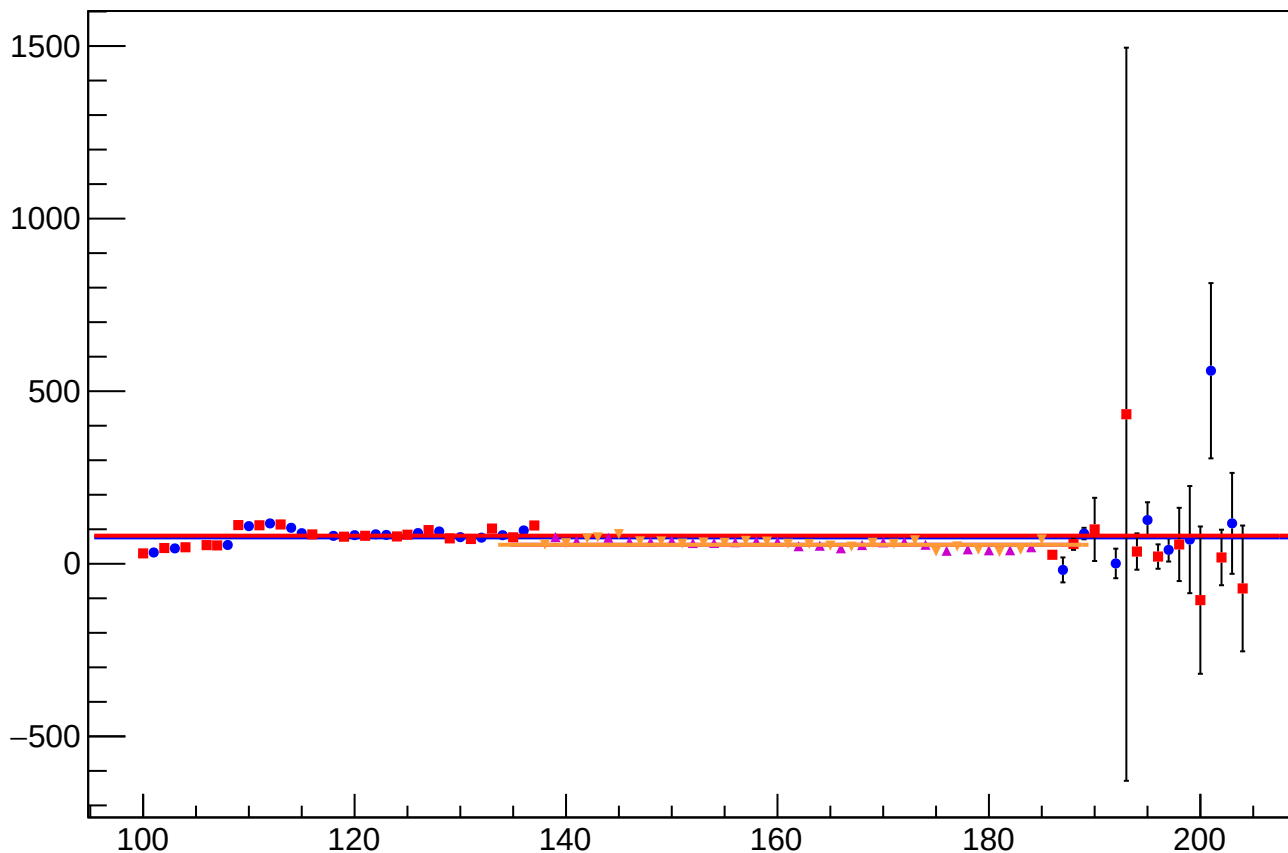
Right: 3.070 ± 0.227 $\chi^2/\text{NDF}: 604.5/53$

In: -0.243 ± 0.136 $\chi^2/\text{NDF}: 1468.9/47$

Out: 0.075 ± 0.133 $\chi^2/\text{NDF}: 1755.8/53$

All: -0.081 ± 0.095 $\chi^2/\text{NDF}: 3227.5/101$

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.529 $\pm$ 0.576 χ^2 /NDF: 2268.9/24

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.488 $\pm$ 0.591 χ^2 /NDF: 1632.6/28

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

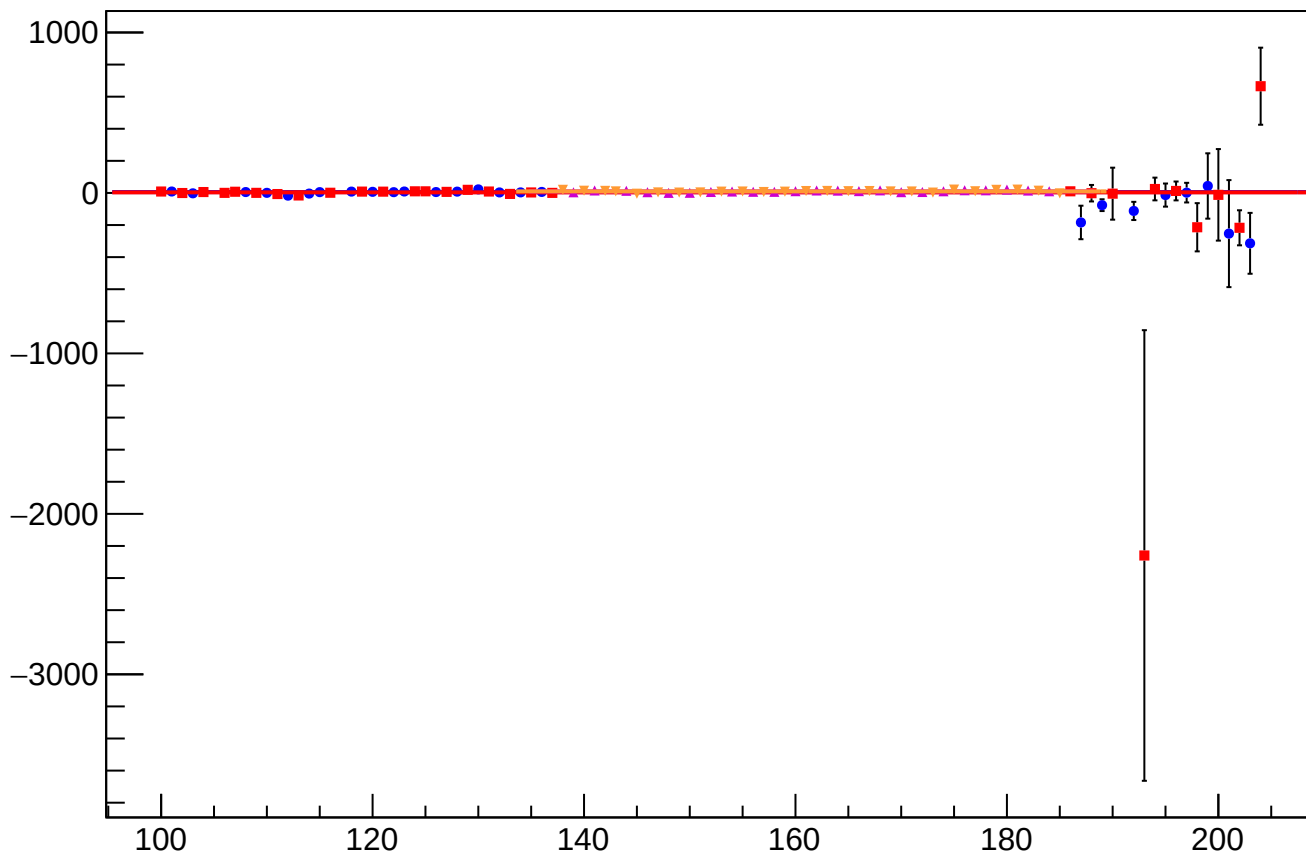
Right: 78.948 $\pm$ 0.412 χ^2 /NDF: 3937.6/53

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7217.7/47

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.0/53

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15238.7/101

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.411+/-0.361 χ^2/NDF : 401.7/24

Left Out: 9.737+/-0.168 χ^2/NDF :1450.2/24

Right Out: 3.583+/-0.375 χ^2/NDF : 438.2/28

Left In: 9.803+/-0.172 χ^2/NDF :1158.7/22

Left: 9.769+/-0.120 χ^2/NDF : 2609.0/47

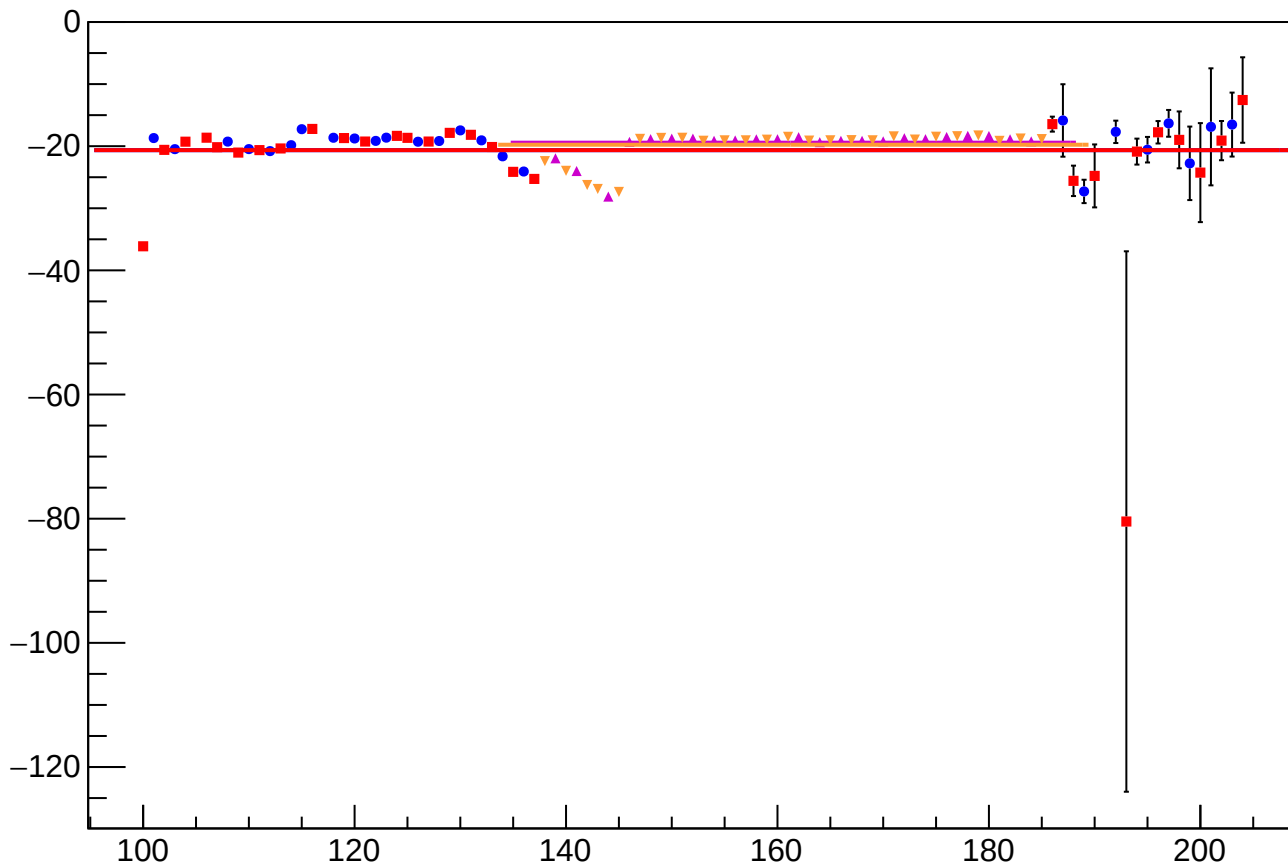
Right: 4.533+/-0.260 χ^2/NDF : 852.3/53

In: 8.993+/-0.155 χ^2/NDF :1681.3/47

Out: 8.713+/-0.153 χ^2/NDF :2112.4/53

All: 8.851+/-0.109 χ^2/NDF : 3795.3/101

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12444.9/24

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13809.1/28

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

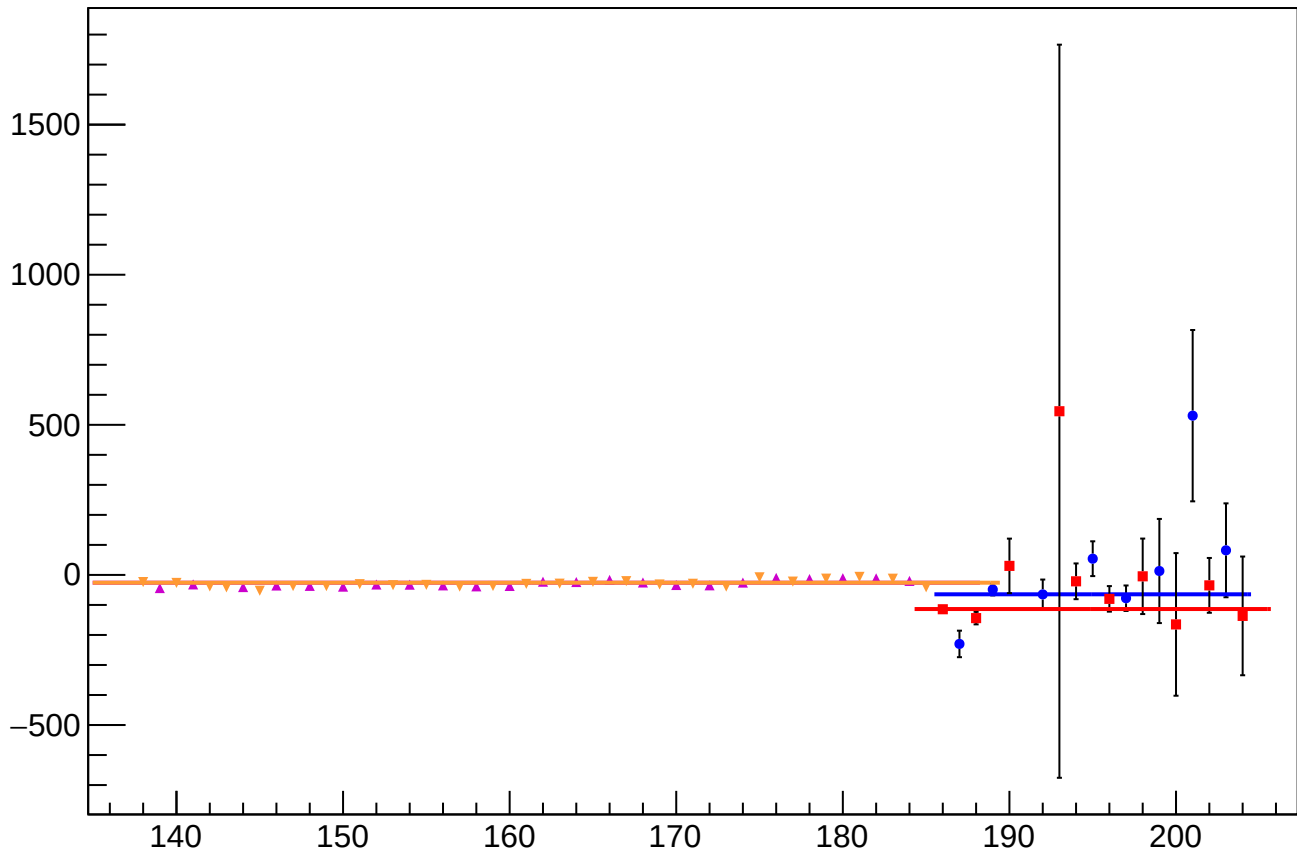
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26254.0/53

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68953.0/47

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107149.2/53

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176830.9/101

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -64.552 ± 15.061 χ^2/NDF : 24.4/7

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -113.624 ± 8.257 χ^2/NDF : 9.5/9

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

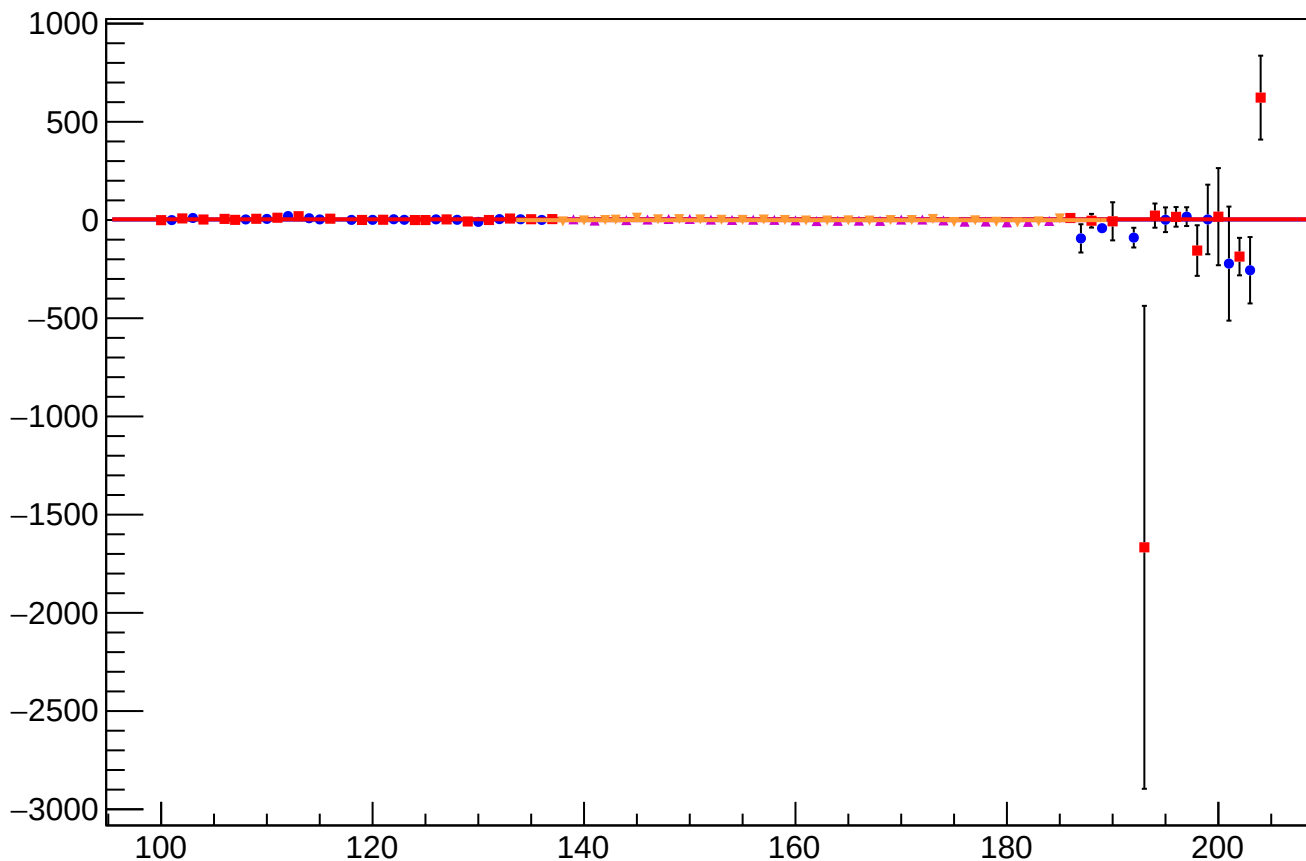
Right: -102.284 ± 7.240 χ^2/NDF : 42.0/17

In: -26.052 ± 0.195 χ^2/NDF : 3277.6/30

Out: -25.946 ± 0.192 χ^2/NDF : 4249.9/34

All: -25.999 ± 0.137 χ^2/NDF : 7527.7/65

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.441 ± 0.315 $\chi^2/\text{NDF}: 304.3/24$

Left Out: -0.596 ± 0.146 $\chi^2/\text{NDF}: 1310.7/24$

Right Out: 3.595 ± 0.318 $\chi^2/\text{NDF}: 296.3/28$

Left In: -0.795 ± 0.151 $\chi^2/\text{NDF}: 1106.3/22$

Left: -0.693 ± 0.105 $\chi^2/\text{NDF}: 2417.9/47$

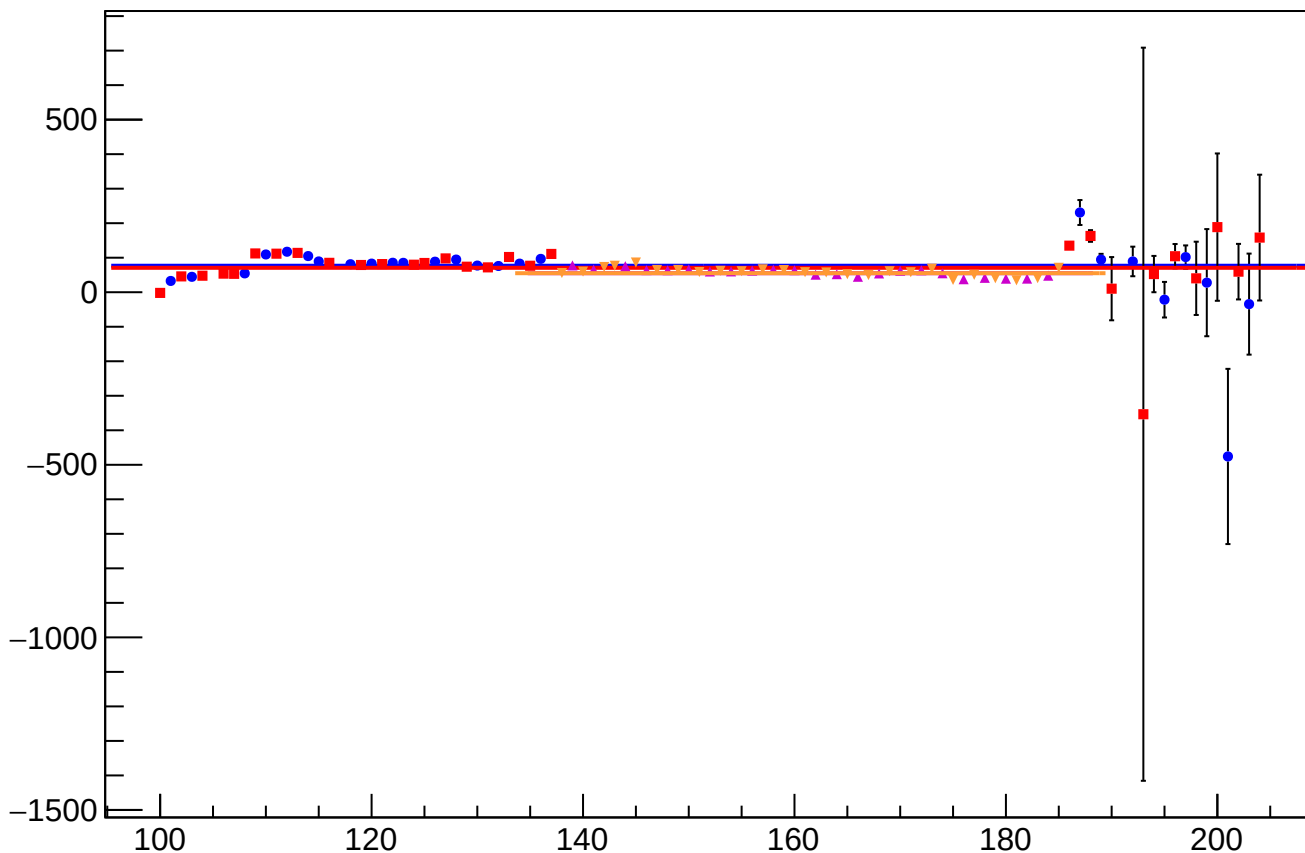
Right: 3.012 ± 0.224 $\chi^2/\text{NDF}: 607.3/53$

In: -0.193 ± 0.136 $\chi^2/\text{NDF}: 1496.5/47$

Out: 0.136 ± 0.133 $\chi^2/\text{NDF}: 1750.4/53$

All: -0.025 ± 0.095 $\chi^2/\text{NDF}: 3250.0/101$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.727 $\pm$ 0.577 χ^2 /NDF: 2293.9/24

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.756 $\pm$ 0.549 χ^2 /NDF: 4491.4/28

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

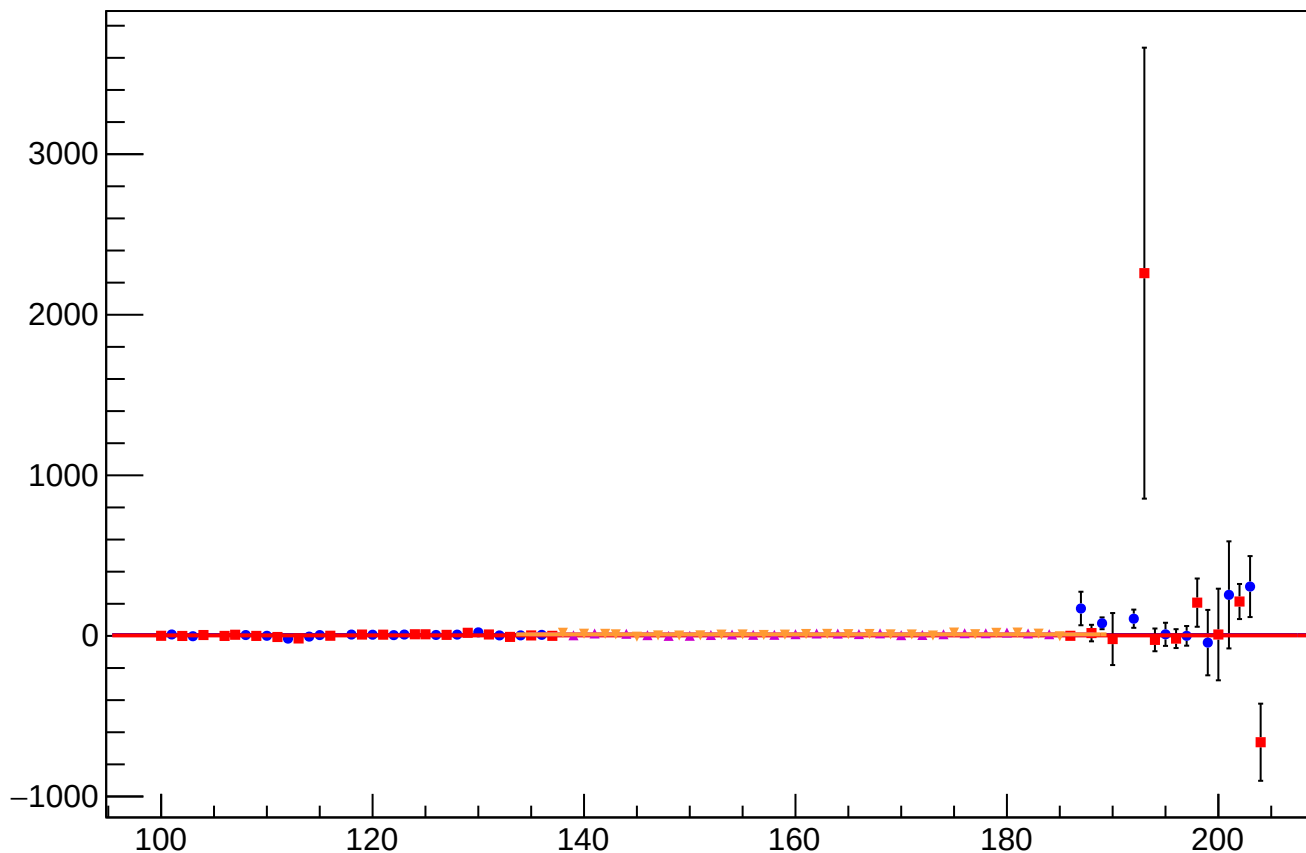
Right: 73.593 $\pm$ 0.397 χ^2 /NDF: 6841.6/53

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7223.4/47

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9776.3/53

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 17003.1/101

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443 $\pm$ 0.361 χ^2 /NDF: 397.0/24

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.280 $\pm$ 0.365 χ^2 /NDF: 441.3/28

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

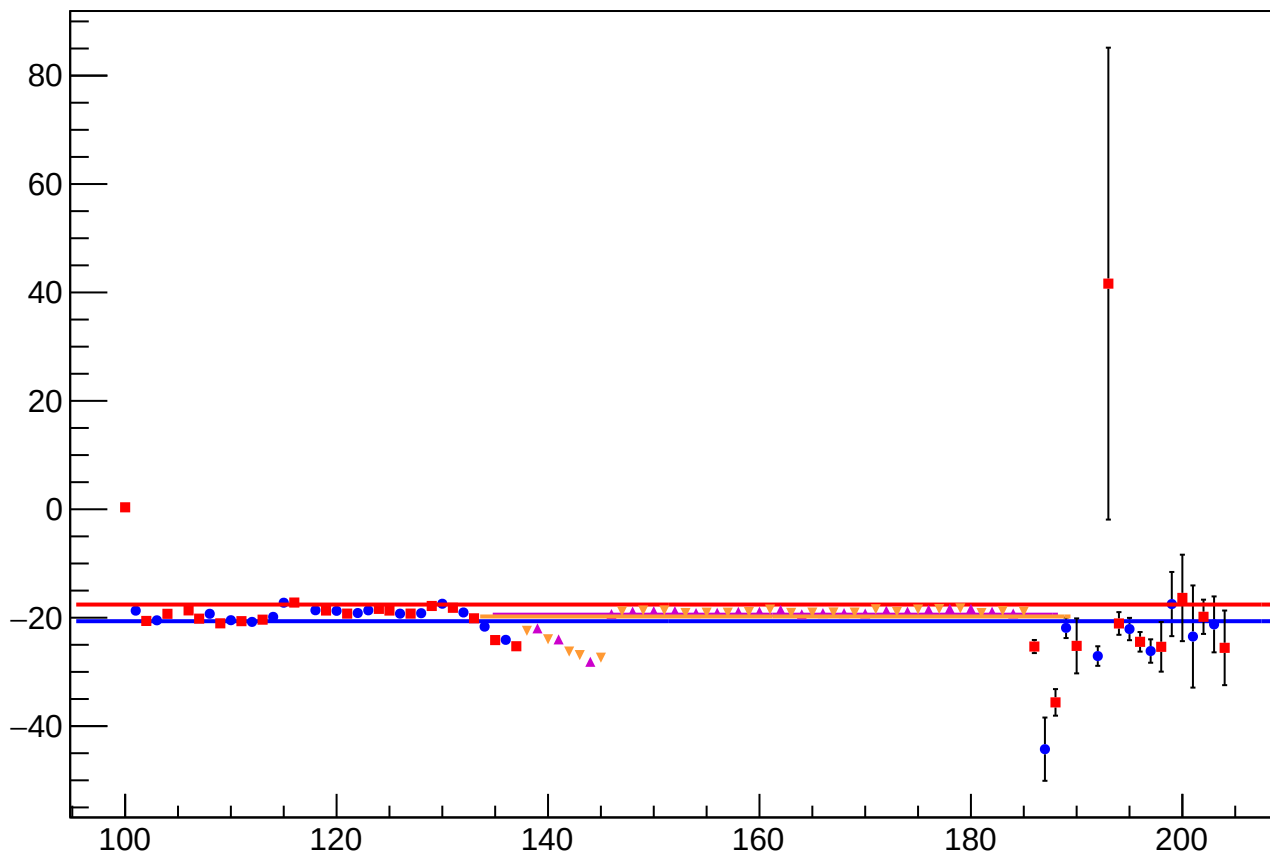
Right: 4.374 $\pm$ 0.257 χ^2 /NDF: 856.0/53

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1703.6/47

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2135.5/53

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3842.1/101

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12499.6/24$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178439.6/28$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

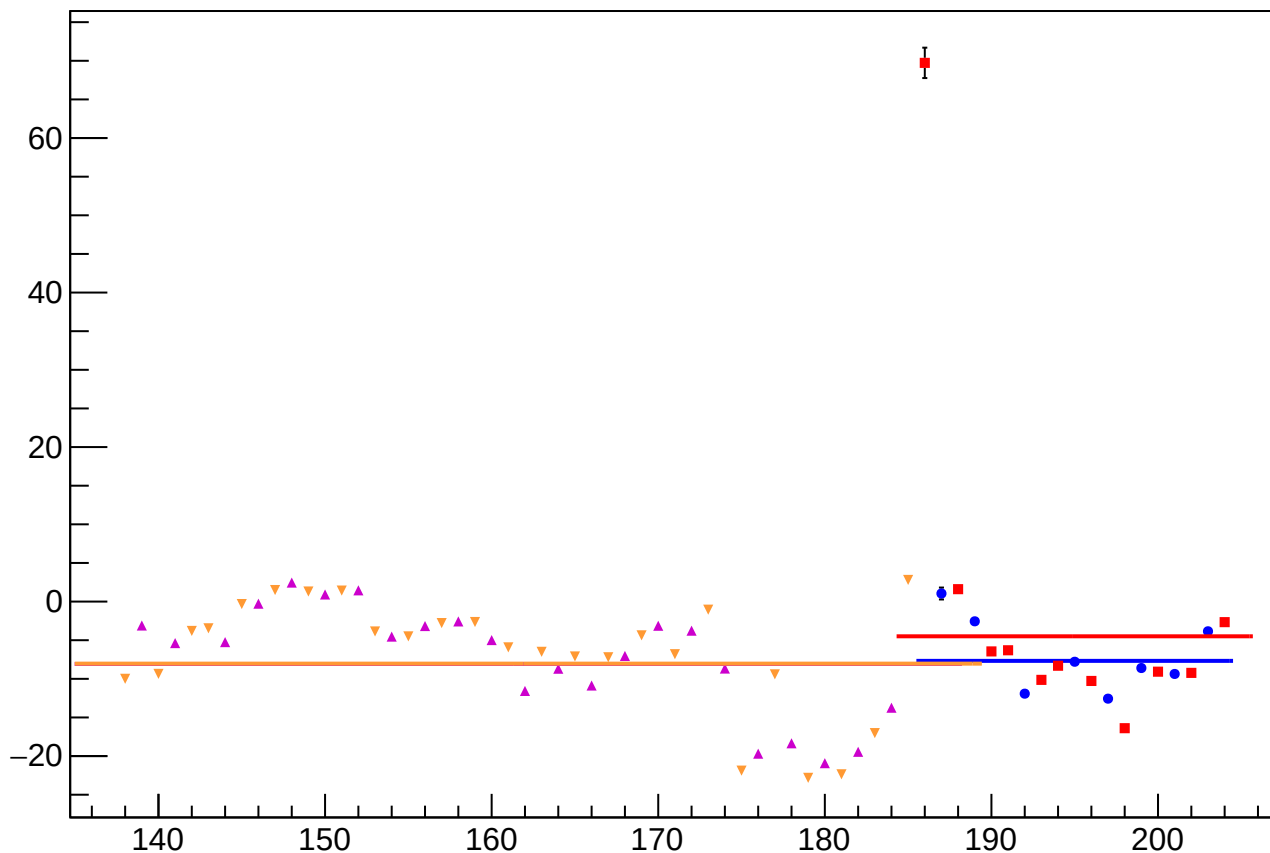
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204412.1/53$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68922.2/47$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282428.6/53$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351714.0/101$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.674 ± 0.147 $\chi^2/\text{NDF}: 728.9/7$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -4.495 ± 0.113 $\chi^2/\text{NDF}: 3923.9/10$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$

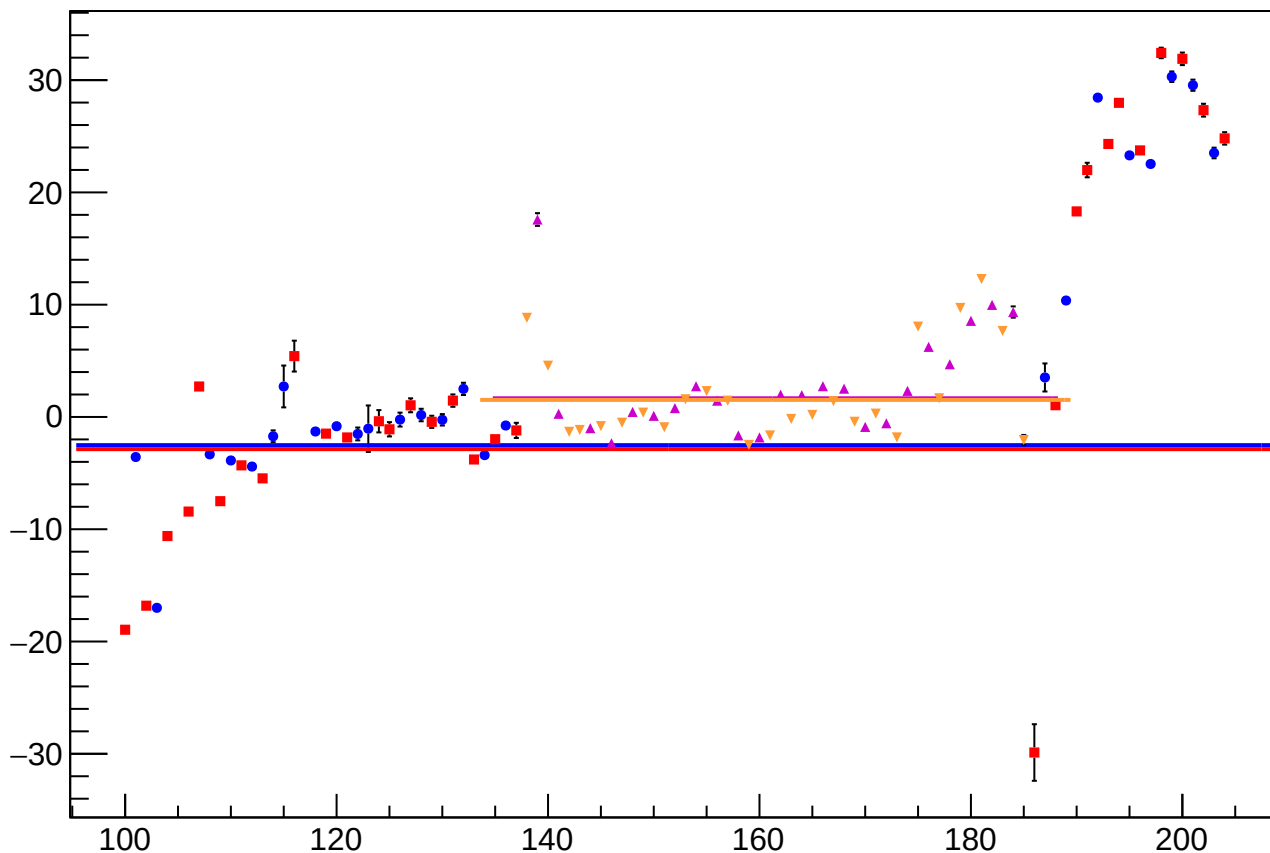
Right: -5.678 ± 0.090 $\chi^2/\text{NDF}: 4946.7/18$

In: -8.000 ± 0.065 $\chi^2/\text{NDF}: 11276.5/30$

Out: -7.047 ± 0.060 $\chi^2/\text{NDF}: 17198.3/35$

All: -7.486 ± 0.044 $\chi^2/\text{NDF}: 28592.0/66$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.511 ± 0.052 χ^2/NDF : 38893.7/24

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.867 ± 0.054 χ^2/NDF : 51240.7/29

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

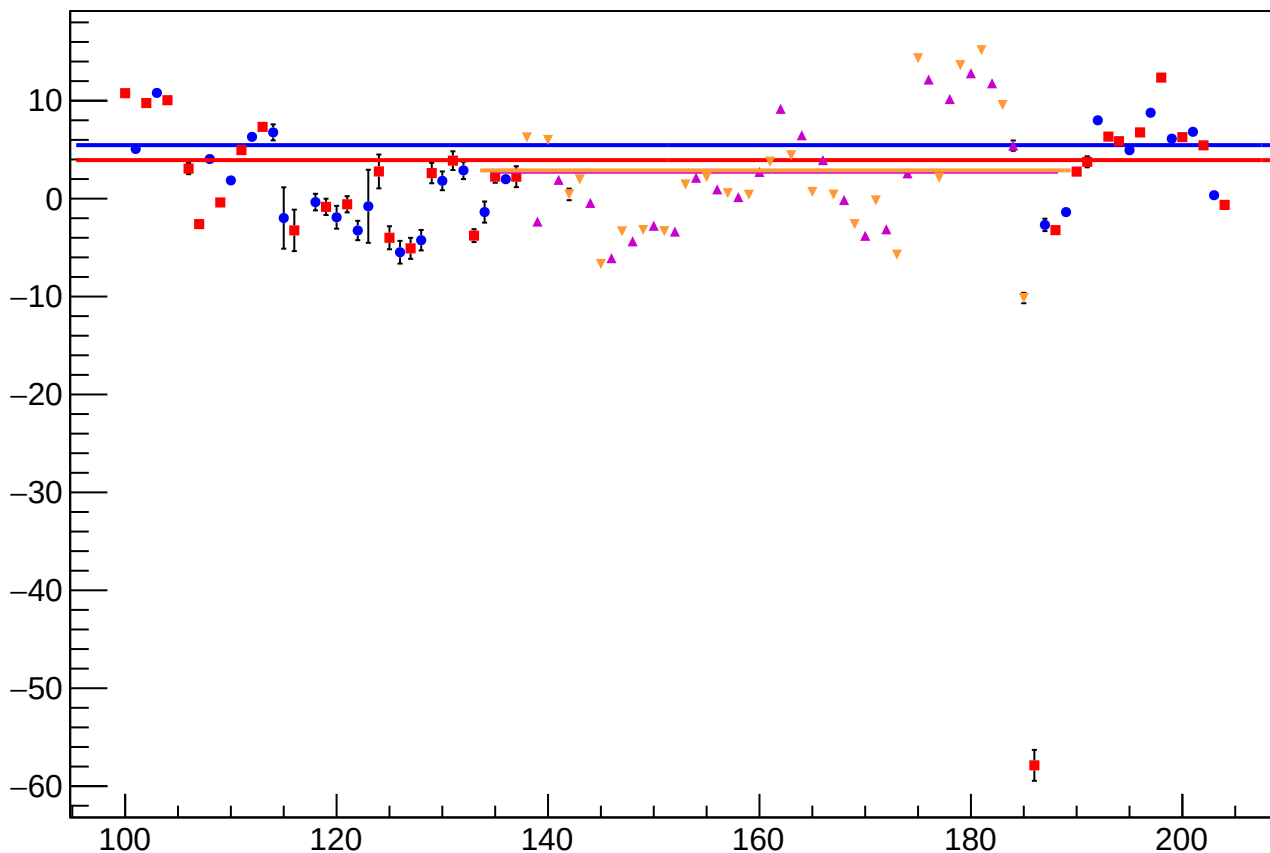
Right: -2.682 ± 0.038 χ^2/NDF : 90156.9/54

In: -0.599 ± 0.038 χ^2/NDF : 45876.0/47

Out: -0.682 ± 0.038 χ^2/NDF : 59353.3/54

All: -0.640 ± 0.027 χ^2/NDF : 105231.7/102

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.465 ± 0.074 $\chi^2/\text{NDF}: 2374.0/24$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.932 ± 0.068 $\chi^2/\text{NDF}: 7777.0/29$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

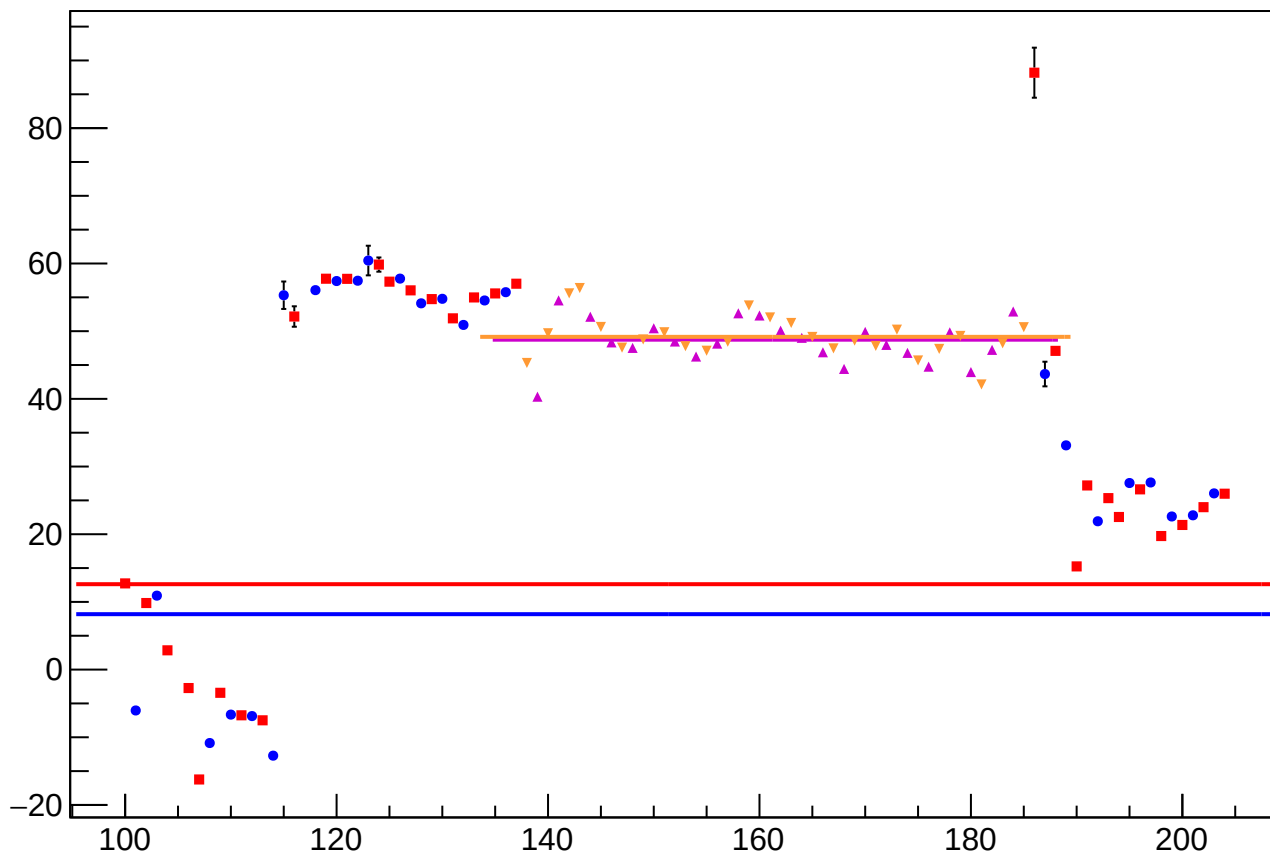
Right: 4.631 ± 0.050 $\chi^2/\text{NDF}: 10384.6/54$

In: 4.058 ± 0.051 $\chi^2/\text{NDF}: 10256.1/47$

Out: 3.427 ± 0.049 $\chi^2/\text{NDF}: 16785.5/54$

All: 3.726 ± 0.035 $\chi^2/\text{NDF}: 27120.8/102$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.188 ± 0.062 χ^2/NDF : 130164.3/24

Left Out: 49.163 ± 0.062 χ^2/NDF : 2259.9/24

Right Out: 12.618 ± 0.064 χ^2/NDF : 134499.9/29

Left In: 48.744 ± 0.064 χ^2/NDF : 2097.7/22

Left: 48.960 ± 0.044 χ^2/NDF : 4380.0/47

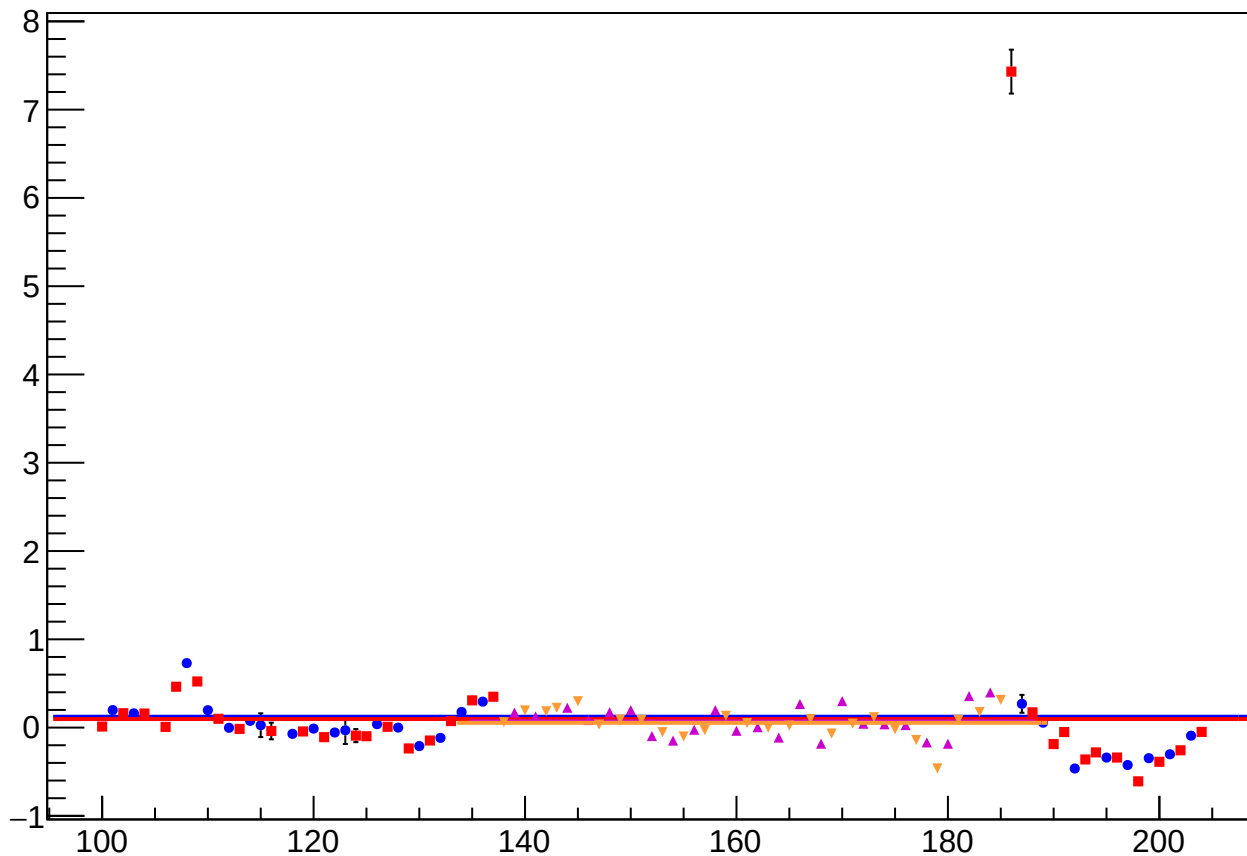
Right: 10.298 ± 0.045 χ^2/NDF : 267135.0/54

In: 27.736 ± 0.044 χ^2/NDF : 341798.4/47

Out: 31.686 ± 0.045 χ^2/NDF : 304315.3/54

All: 29.696 ± 0.031 χ^2/NDF : 650066.0/102

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.123+/-0.003 χ^2/NDF : 10946.6/24

Left Out: 0.054+/-0.003 χ^2/NDF :2379.8/24

Right Out: 0.097+/-0.002 χ^2/NDF : 10609.8/29

Left In: 0.070+/-0.003 χ^2/NDF :3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

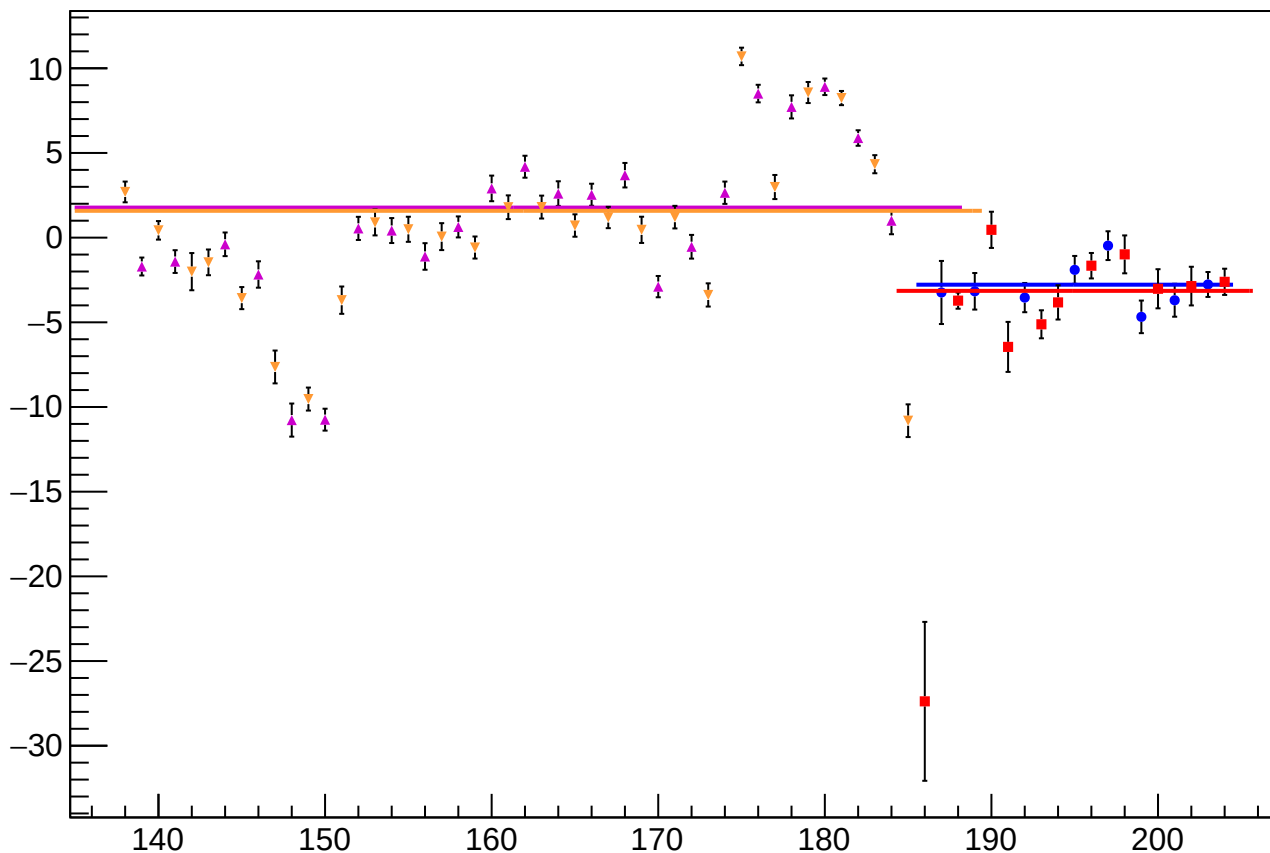
Right: 0.109+/-0.002 χ^2/NDF : 21611.3/54

In: 0.100+/-0.002 χ^2/NDF :14369.5/47

Out: 0.079+/-0.002 χ^2/NDF :13123.5/54

All: 0.089+/-0.001 χ^2/NDF : 27556.8/102

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.779 ± 0.327 χ^2/NDF : 14.2/7

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.143 ± 0.268 χ^2/NDF : 58.8/10

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

Right: -2.997 ± 0.207 χ^2/NDF : 73.8/18

In: 1.110 ± 0.125 χ^2/NDF : 1476.9/30

Out: 0.651 ± 0.119 χ^2/NDF : 1768.1/35

All: 0.869 ± 0.086 χ^2/NDF : 3252.0/66

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.525 $\pm$ 0.192 χ^2 /NDF: 6374.3/24

Left Out: -54.707 $\pm$ 0.106 χ^2 /NDF:1126.0/24

Right Out: -67.420 $\pm$ 0.177 χ^2 /NDF: 9452.5/29

Left In: -54.650 $\pm$ 0.110 χ^2 /NDF:1077.1/22

Left: -54.680 $\pm$ 0.076 χ^2 /NDF: 2203.2/47

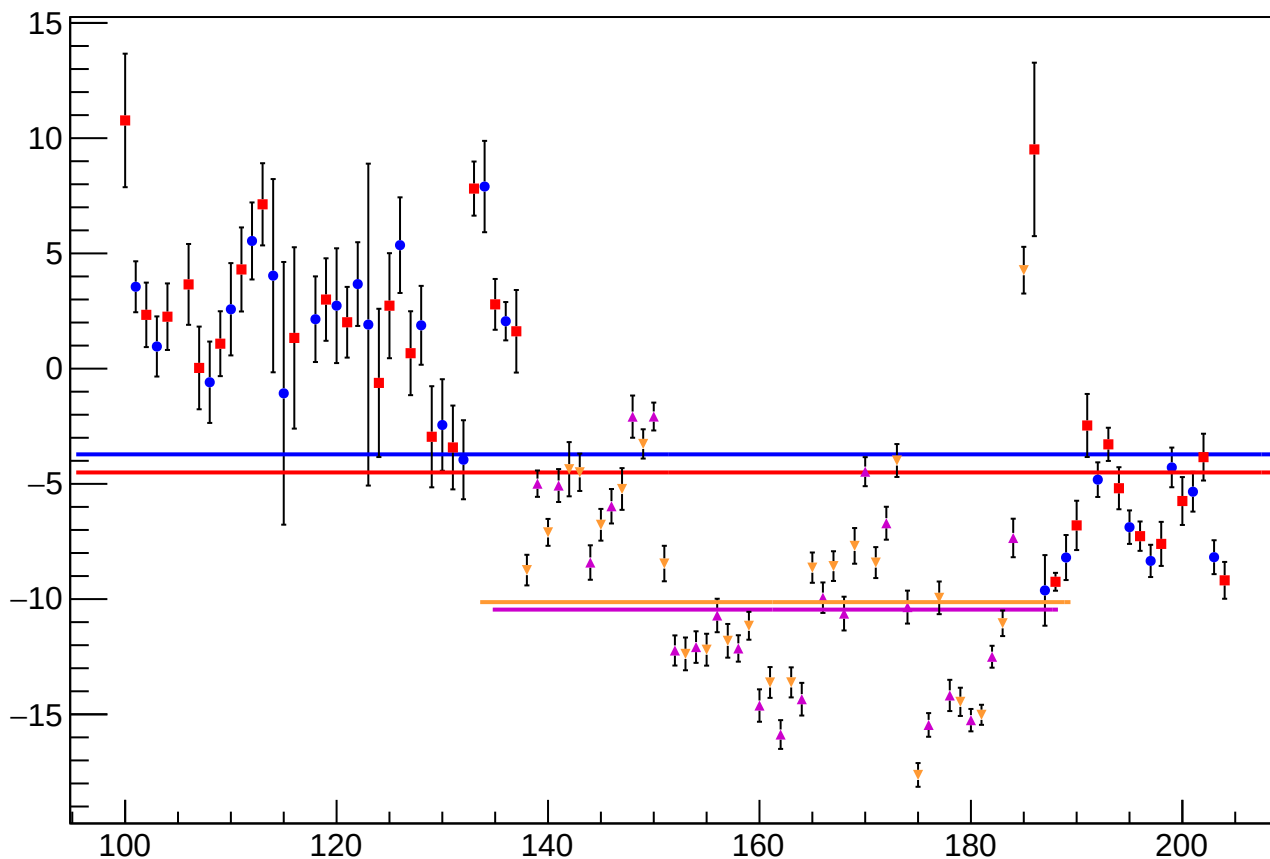
Right: -67.468 $\pm$ 0.130 χ^2 /NDF: 15827.0/54

In: -57.832 $\pm$ 0.095 χ^2 /NDF:10850.9/47

Out: -58.059 $\pm$ 0.091 χ^2 /NDF:14392.5/54

All: -57.951 $\pm$ 0.066 χ^2 /NDF: 25246.4/102

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

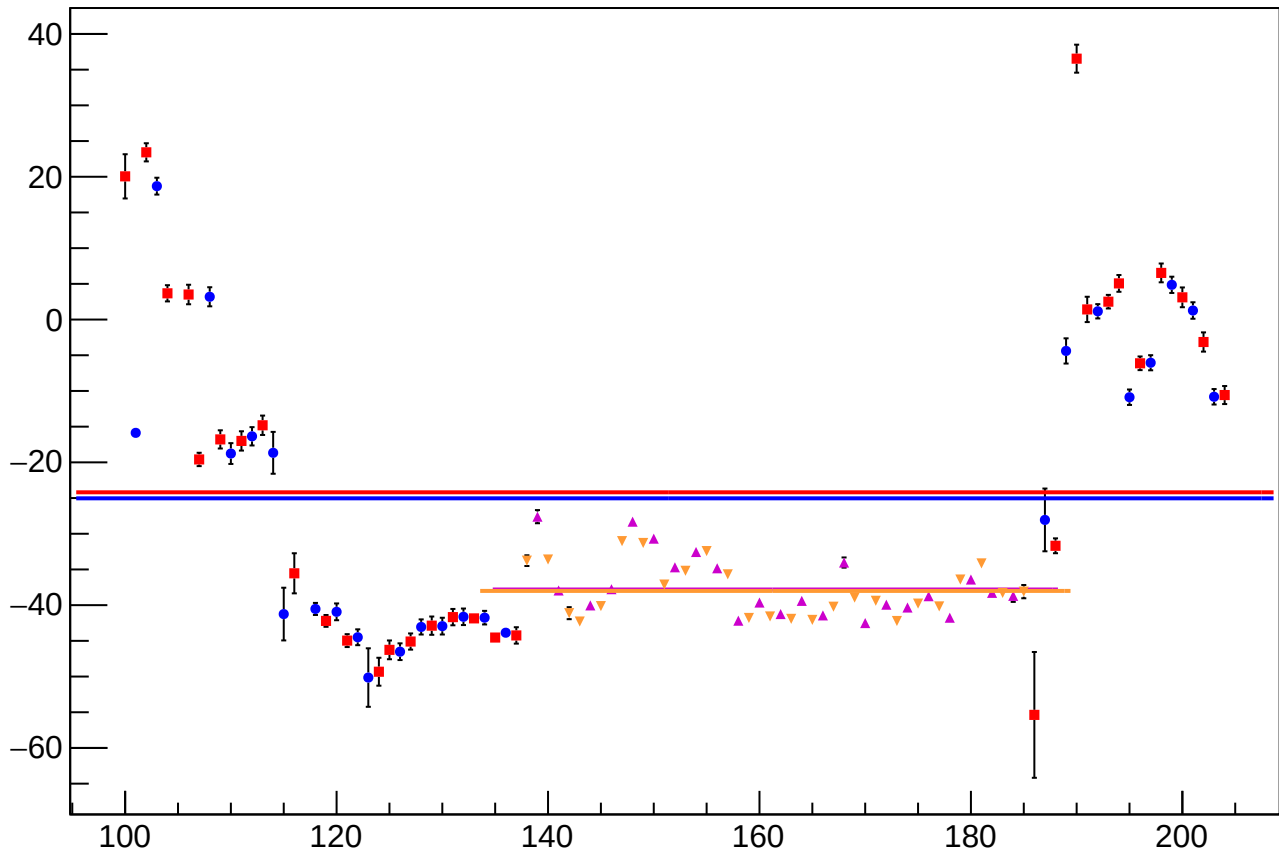


Right In: -3.720 ± 0.237 χ^2/NDF : 391.7/24
 Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24
 Right Out: -4.505 ± 0.200 χ^2/NDF : 646.7/29
 Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47
 Right: -4.178 ± 0.153 χ^2/NDF : 1044.7/54
 In: -8.813 ± 0.117 χ^2/NDF : 2004.8/47
 Out: -8.413 ± 0.111 χ^2/NDF : 2250.1/54

All: -8.602 ± 0.080 χ^2/NDF : 4261.1/102

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.039 $\pm$ 0.220 χ^2 /NDF: 8222.9/24

Left Out: -38.006 $\pm$ 0.119 χ^2 /NDF:946.0/24

Right Out: -24.196 $\pm$ 0.206 χ^2 /NDF: 11488.3/29

Left In: -37.809 $\pm$ 0.122 χ^2 /NDF:1039.9/22

Left: -37.910 $\pm$ 0.085 χ^2 /NDF: 1987.2/47

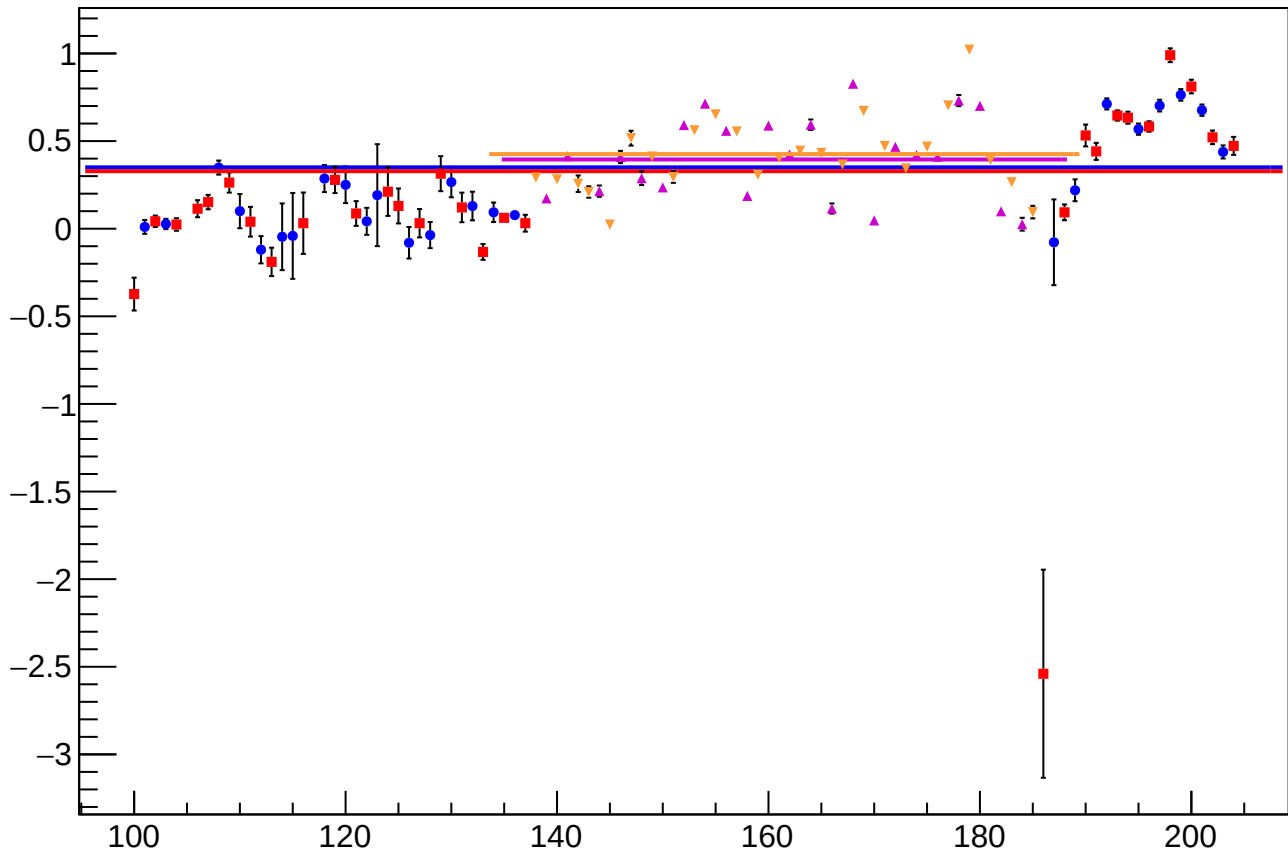
Right: -24.591 $\pm$ 0.150 χ^2 /NDF: 19719.0/54

In: -34.786 $\pm$ 0.107 χ^2 /NDF:11843.4/47

Out: -34.573 $\pm$ 0.103 χ^2 /NDF:15797.2/54

All: -34.676 $\pm$ 0.074 χ^2 /NDF: 27642.7/102

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.350 ± 0.009 χ^2/NDF : 1055.1/24

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.328 ± 0.009 χ^2/NDF : 1384.4/29

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

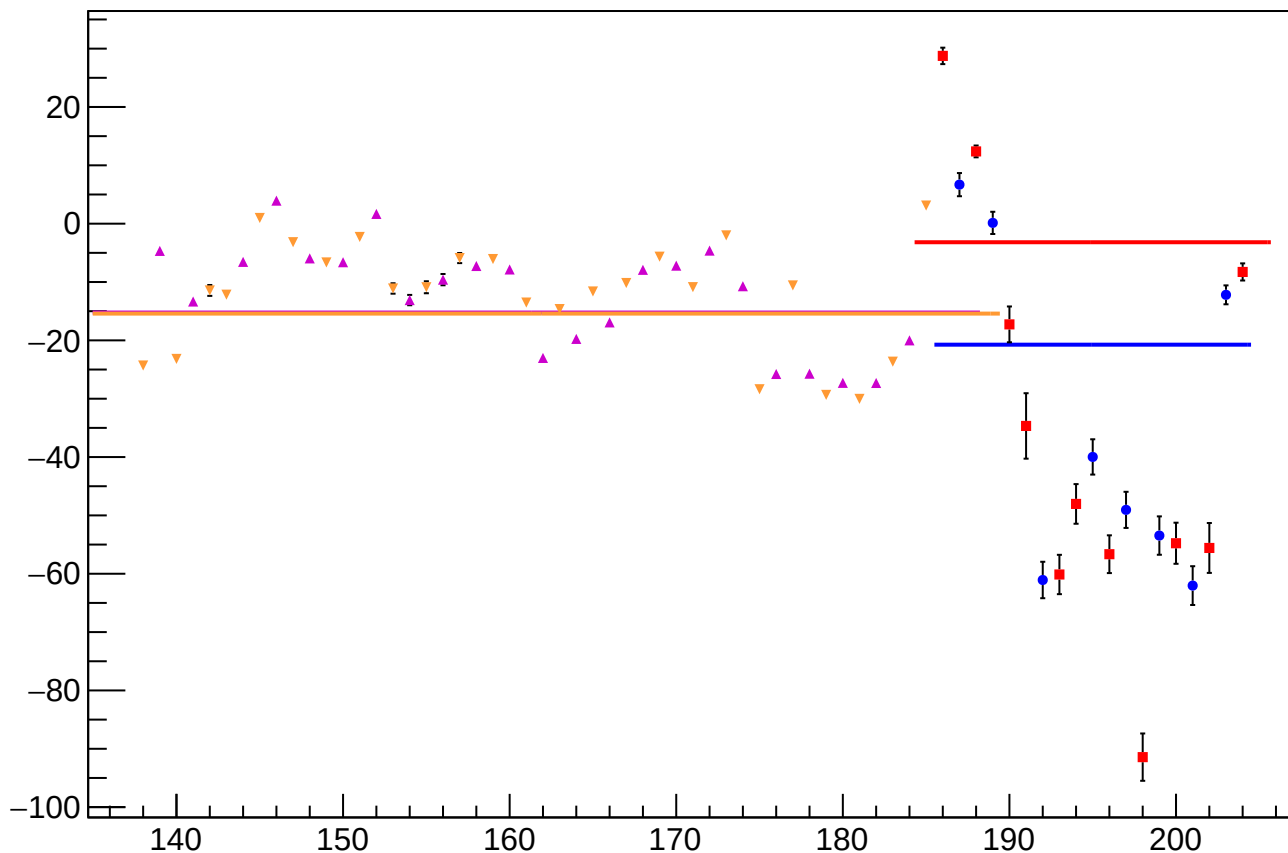
Right: 0.339 ± 0.006 χ^2/NDF : 2442.6/54

In: 0.383 ± 0.005 χ^2/NDF : 2871.0/47

Out: 0.399 ± 0.005 χ^2/NDF : 2780.2/54

All: 0.391 ± 0.003 χ^2/NDF : 5656.6/102

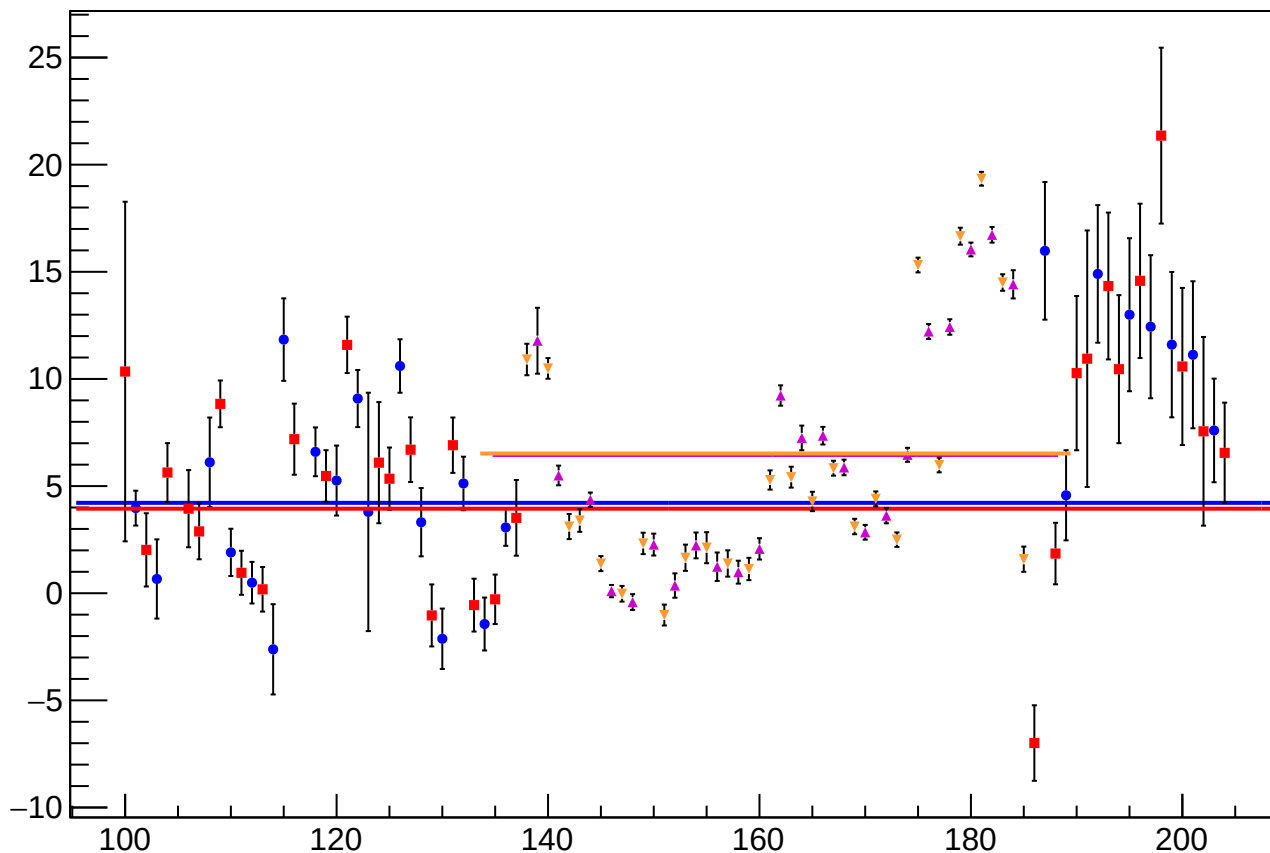
reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.739 ± 0.842 $\chi^2/\text{NDF}: 882.7/7$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -3.183 ± 0.627 $\chi^2/\text{NDF}: 2385.2/10$
 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: -9.437 ± 0.503 $\chi^2/\text{NDF}: 3547.4/18$
 In: -15.316 ± 0.106 $\chi^2/\text{NDF}: 9582.1/30$
 Out: -15.077 ± 0.104 $\chi^2/\text{NDF}: 13264.6/35$
 All: -15.194 ± 0.074 $\chi^2/\text{NDF}: 22849.4/66$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.218 $\pm$ 0.298 χ^2 /NDF: 185.4/24

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.946 $\pm$ 0.295 χ^2 /NDF: 223.5/29

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

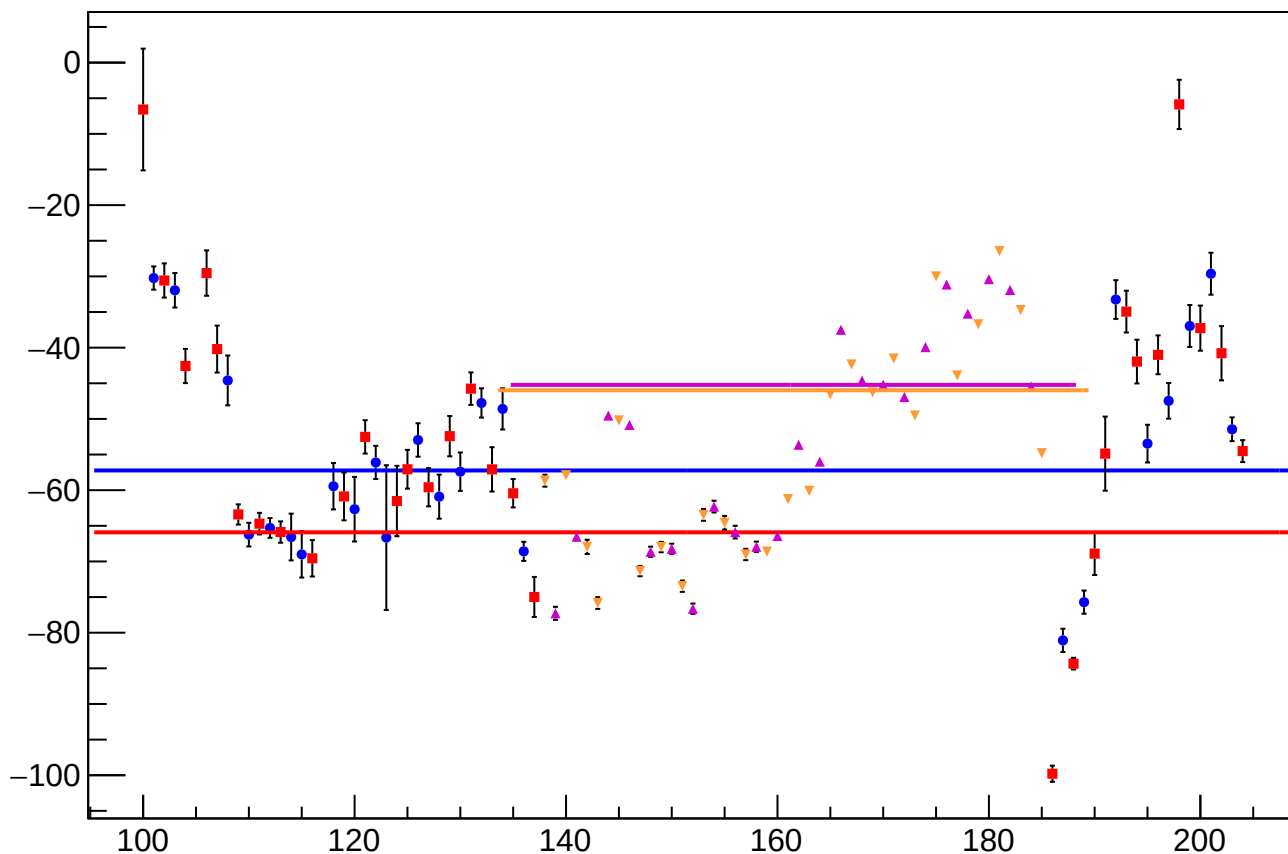
Right: 4.081 $\pm$ 0.210 χ^2 /NDF: 409.3/54

In: 6.280 $\pm$ 0.083 χ^2 /NDF:4185.4/47

Out: 6.322 $\pm$ 0.082 χ^2 /NDF:5279.0/54

All: 6.301 $\pm$ 0.058 χ^2 /NDF: 9464.5/102

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.232 ± 0.440 $\chi^2/\text{NDF}: 1174.8/24$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -65.913 ± 0.380 $\chi^2/\text{NDF}: 2883.0/29$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

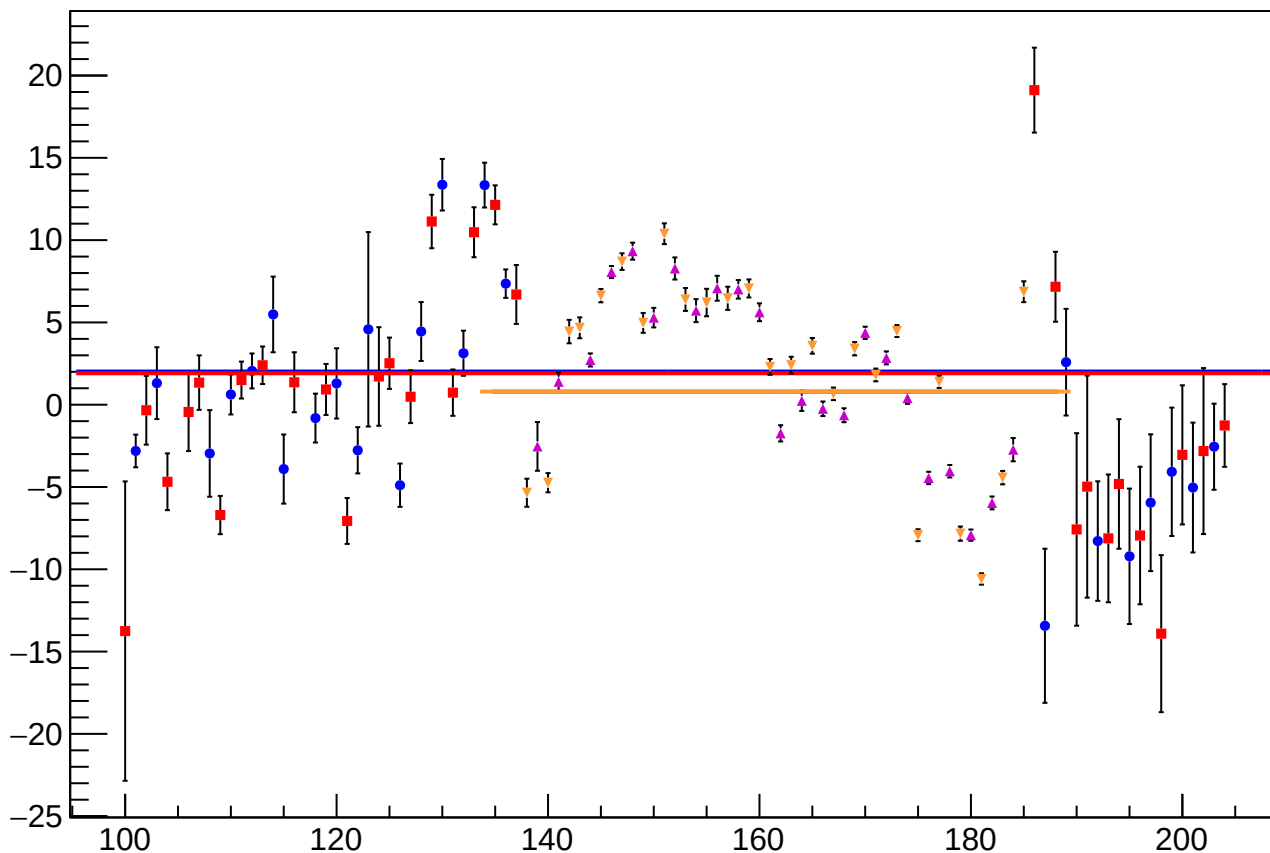
Right: -62.209 ± 0.288 $\chi^2/\text{NDF}: 4280.6/54$

In: -45.894 ± 0.104 $\chi^2/\text{NDF}: 17477.1/47$

Out: -47.428 ± 0.102 $\chi^2/\text{NDF}: 22795.8/54$

All: -46.674 ± 0.073 $\chi^2/\text{NDF}: 40383.4/102$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.016 ± 0.336 χ^2/NDF : 283.0/24

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.910 ± 0.337 χ^2/NDF : 348.8/29

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

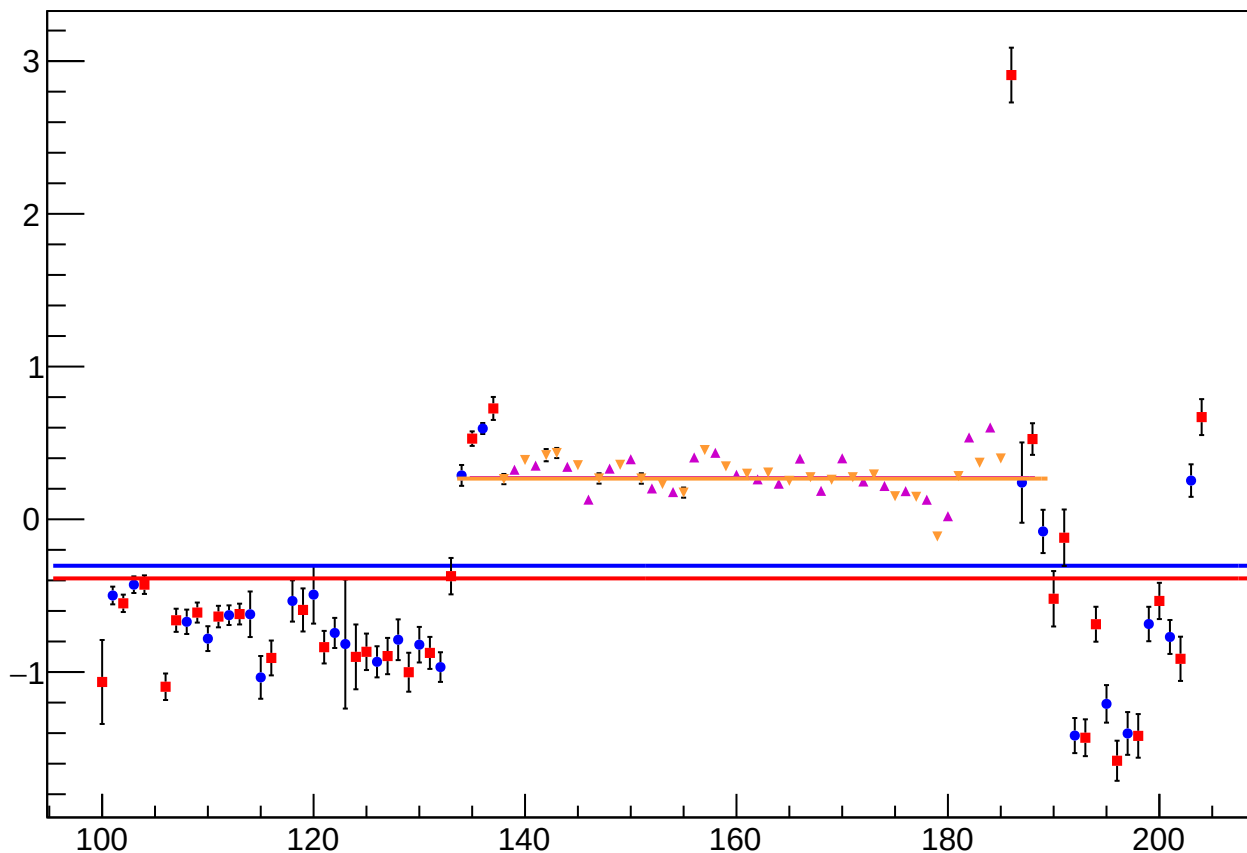
Right: 1.963 ± 0.238 χ^2/NDF : 631.9/54

In: 0.886 ± 0.093 χ^2/NDF : 2987.8/47

Out: 0.880 ± 0.092 χ^2/NDF : 4118.9/54

All: 0.883 ± 0.065 χ^2/NDF : 7106.7/102

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.304 ± 0.017 χ^2/NDF : 1243.8/24

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.387 ± 0.017 χ^2/NDF : 1574.4/29

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

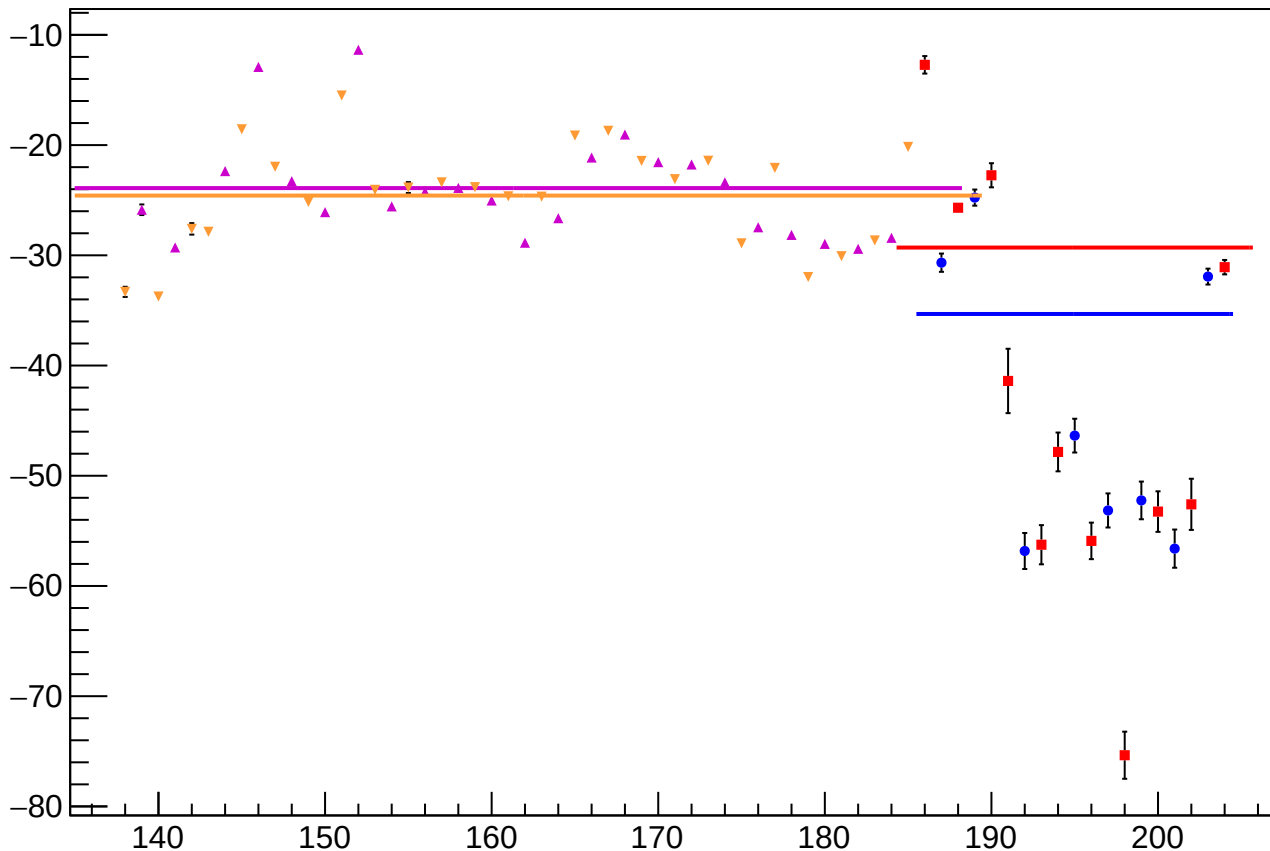
Right: -0.346 ± 0.012 χ^2/NDF : 2829.7/54

In: 0.235 ± 0.004 χ^2/NDF : 3235.9/47

Out: 0.227 ± 0.004 χ^2/NDF : 3636.7/54

All: 0.231 ± 0.003 χ^2/NDF : 6874.5/102

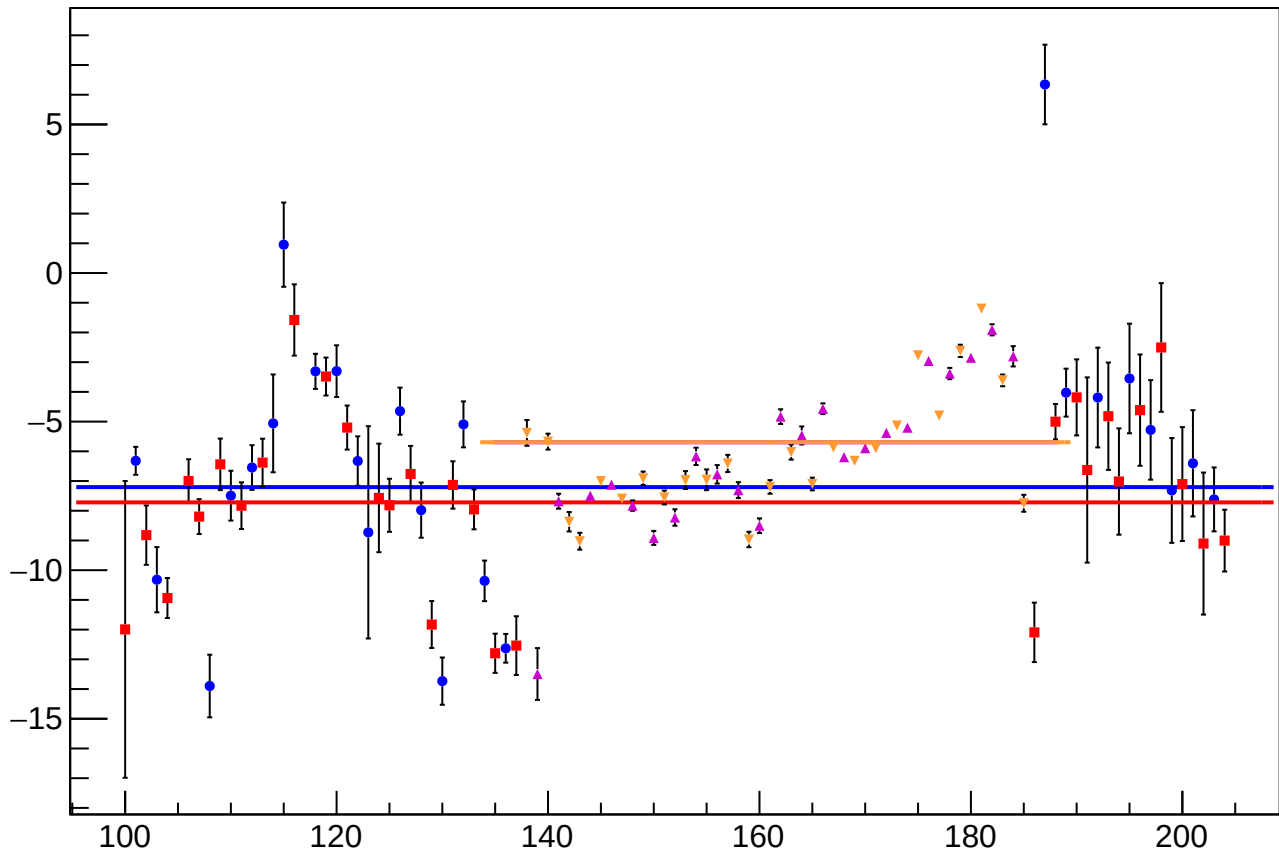
reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.322 ± 0.374 $\chi^2/\text{NDF}: 869.8/7$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -29.296 ± 0.289 $\chi^2/\text{NDF}: 1900.4/10$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$
 Right: -31.550 ± 0.229 $\chi^2/\text{NDF}: 2932.7/18$
 In: -24.110 ± 0.051 $\chi^2/\text{NDF}: 10940.3/30$
 Out: -24.720 ± 0.050 $\chi^2/\text{NDF}: 10749.3/35$
 All: -24.418 ± 0.036 $\chi^2/\text{NDF}: 21762.6/66$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.205 ± 0.174 χ^2/NDF : 512.7/24

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.718 ± 0.167 χ^2/NDF : 286.0/29

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

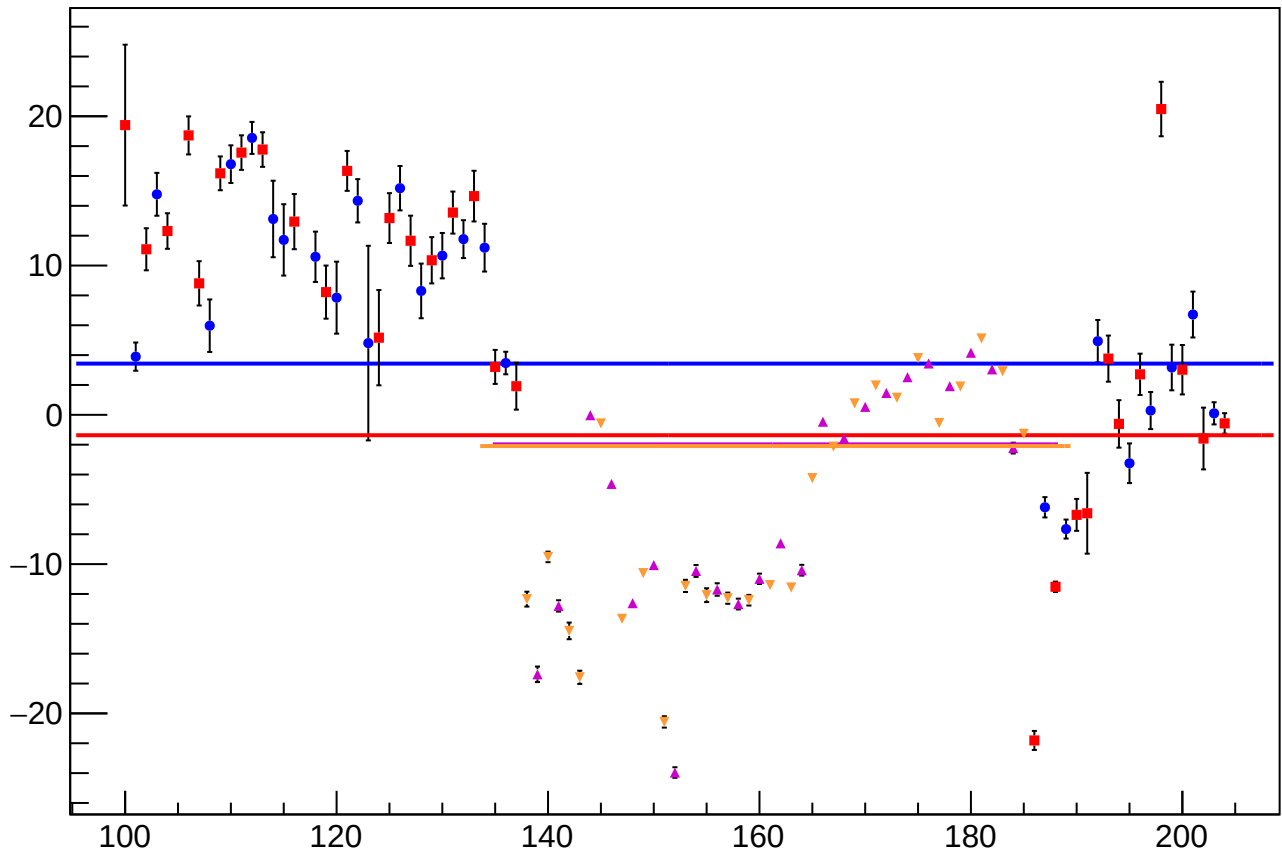
Right: -7.472 ± 0.120 χ^2/NDF : 803.2/54

In: -5.775 ± 0.040 χ^2/NDF : 2893.8/47

Out: -5.810 ± 0.040 χ^2/NDF : 2683.0/54

All: -5.792 ± 0.028 χ^2/NDF : 5577.2/102

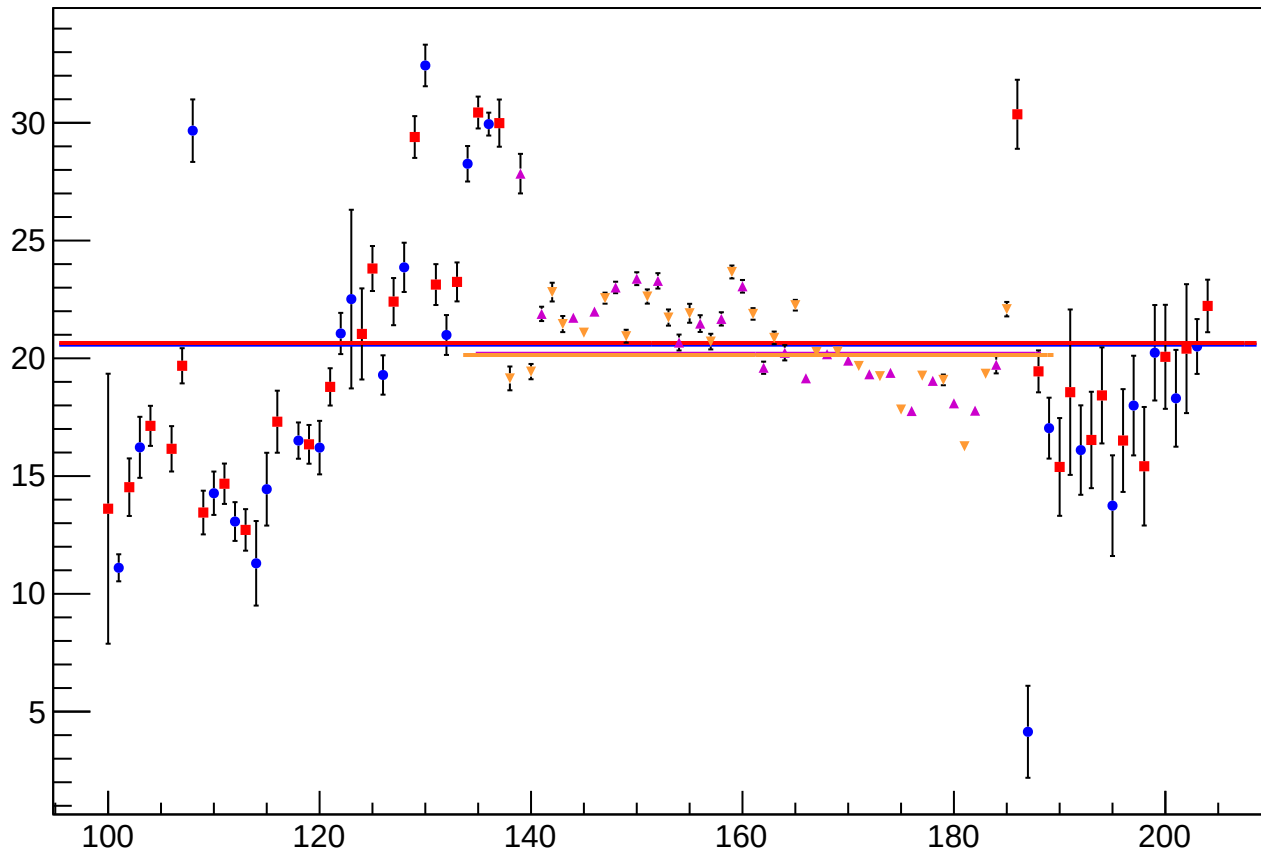
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.431 ± 0.237 $\chi^2/\text{NDF}: 1200.1/24$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.366 ± 0.199 $\chi^2/\text{NDF}: 4074.4/29$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.615 ± 0.153 $\chi^2/\text{NDF}: 5514.0/54$
 In: -1.739 ± 0.050 $\chi^2/\text{NDF}: 17078.5/47$
 Out: -2.047 ± 0.050 $\chi^2/\text{NDF}: 20392.2/54$
 All: -1.894 ± 0.035 $\chi^2/\text{NDF}: 37489.6/102$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.580 $\pm$ 0.199 χ^2 /NDF: 1311.1/24

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.651 $\pm$ 0.196 χ^2 /NDF: 789.4/29

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

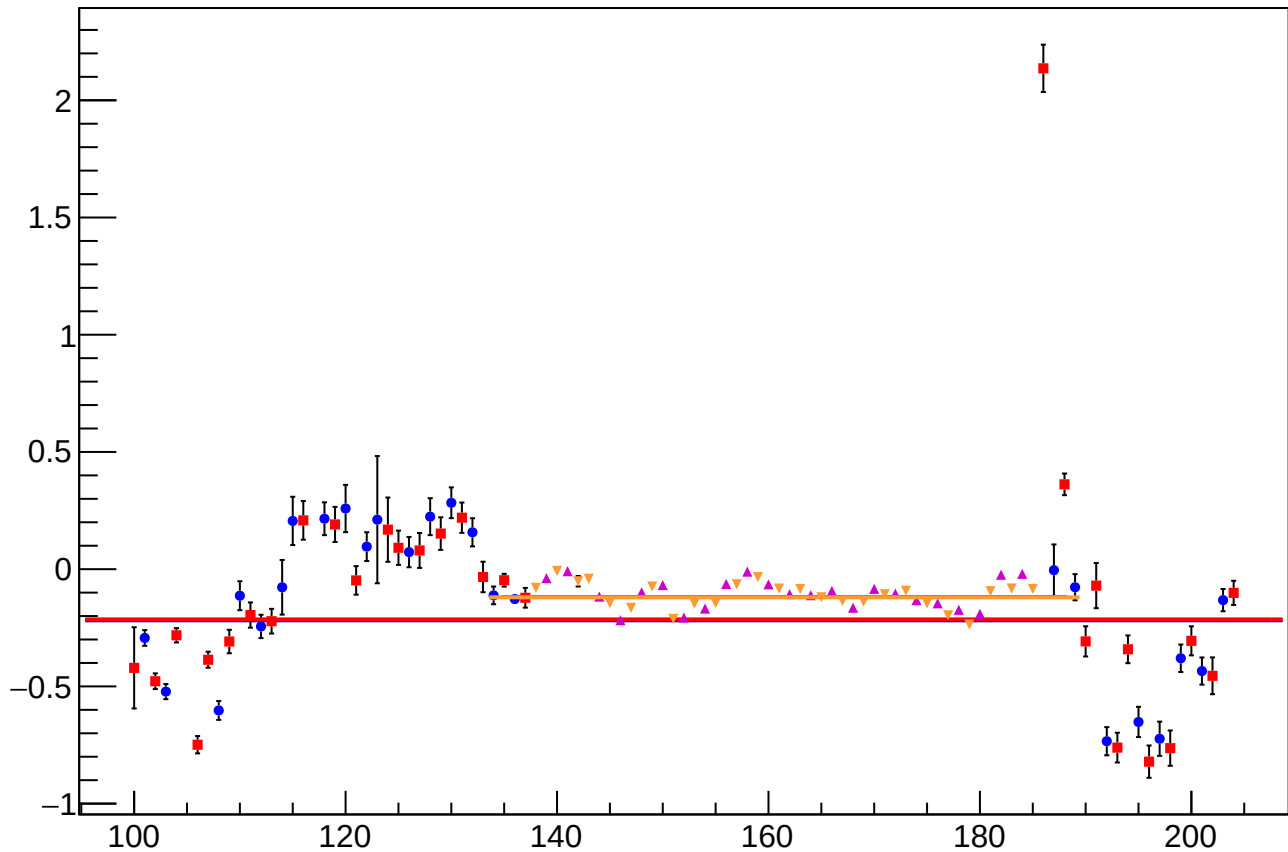
Right: 20.616 $\pm$ 0.140 χ^2 /NDF: 2100.5/54

In: 20.213 $\pm$ 0.045 χ^2 /NDF:2762.0/47

Out: 20.167 $\pm$ 0.045 χ^2 /NDF:2215.0/54

All: 20.190 $\pm$ 0.032 χ^2 /NDF: 4977.5/102

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.218 ± 0.010 $\chi^2/\text{NDF}: 675.5/24$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.214 ± 0.010 $\chi^2/\text{NDF}: 1461.7/29$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

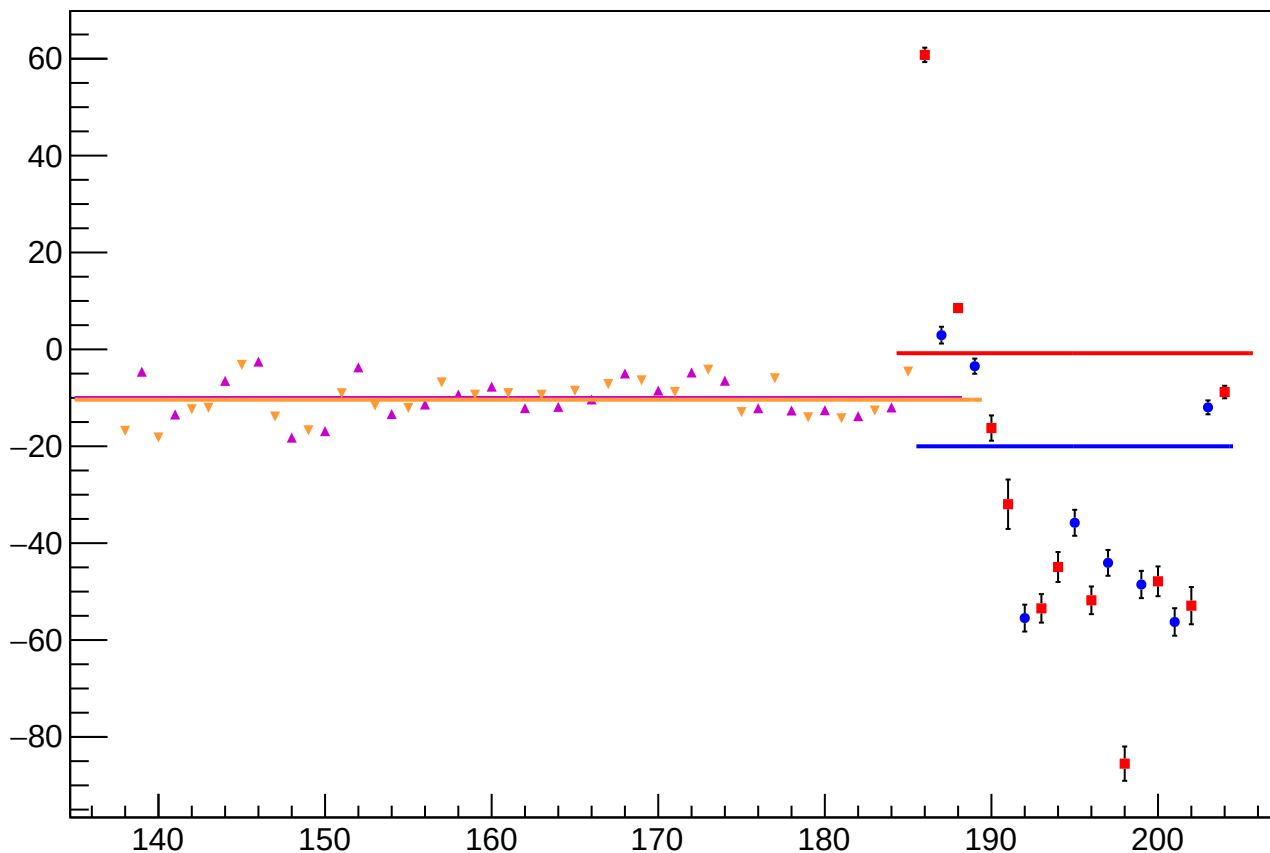
Right: -0.216 ± 0.007 $\chi^2/\text{NDF}: 2137.2/54$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1492.8/47$

Out: -0.124 ± 0.002 $\chi^2/\text{NDF}: 2084.6/54$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3577.7/102$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.009 ± 0.728 $\chi^2/\text{NDF}: 863.3/7$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: -0.791 ± 0.560 $\chi^2/\text{NDF}: 3780.7/10$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

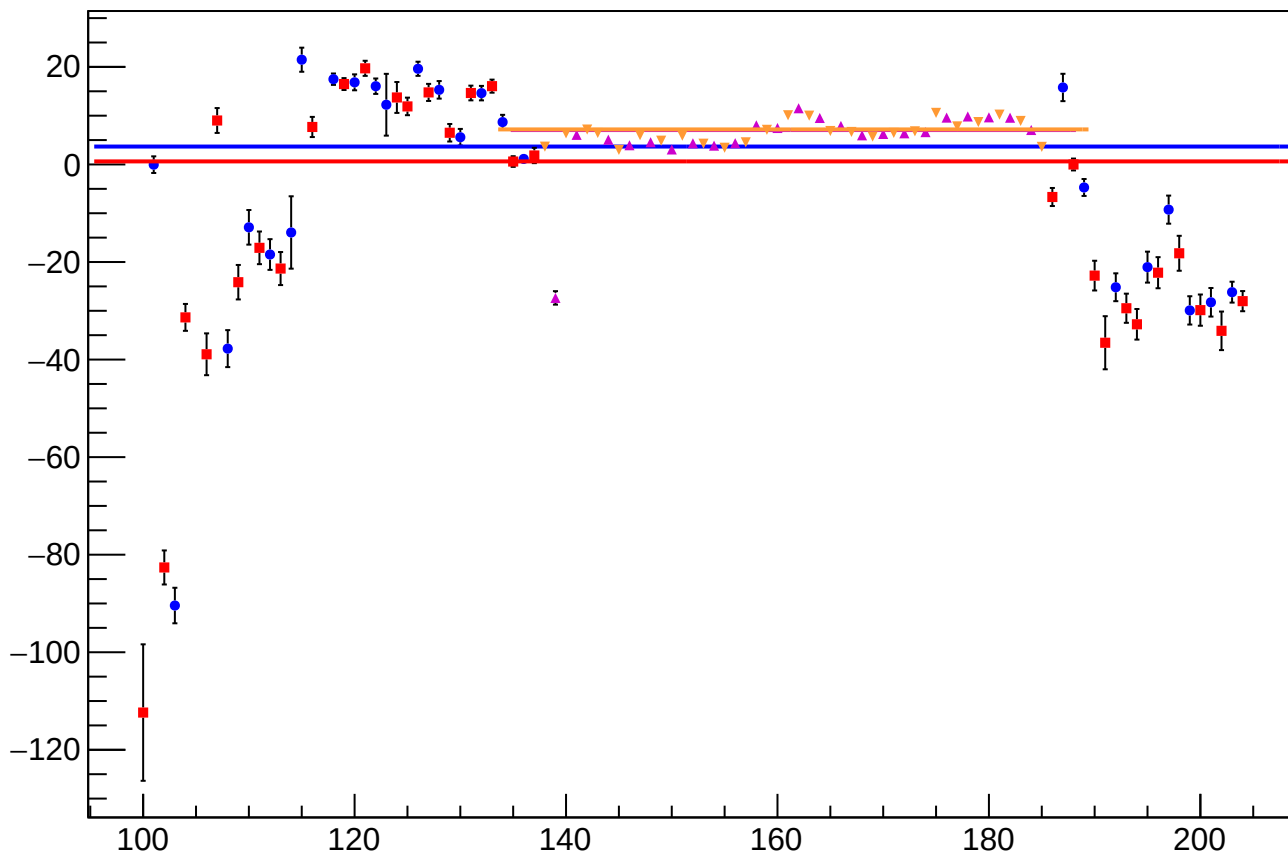
Right: -7.937 ± 0.444 $\chi^2/\text{NDF}: 5081.4/18$

In: -10.184 ± 0.089 $\chi^2/\text{NDF}: 2806.7/30$

Out: -10.161 ± 0.087 $\chi^2/\text{NDF}: 6178.8/35$

All: -10.172 ± 0.062 $\chi^2/\text{NDF}: 8985.5/66$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.672 ± 0.370 χ^2/NDF : 2100.8/24

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 0.627 ± 0.373 χ^2/NDF : 2443.4/29

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

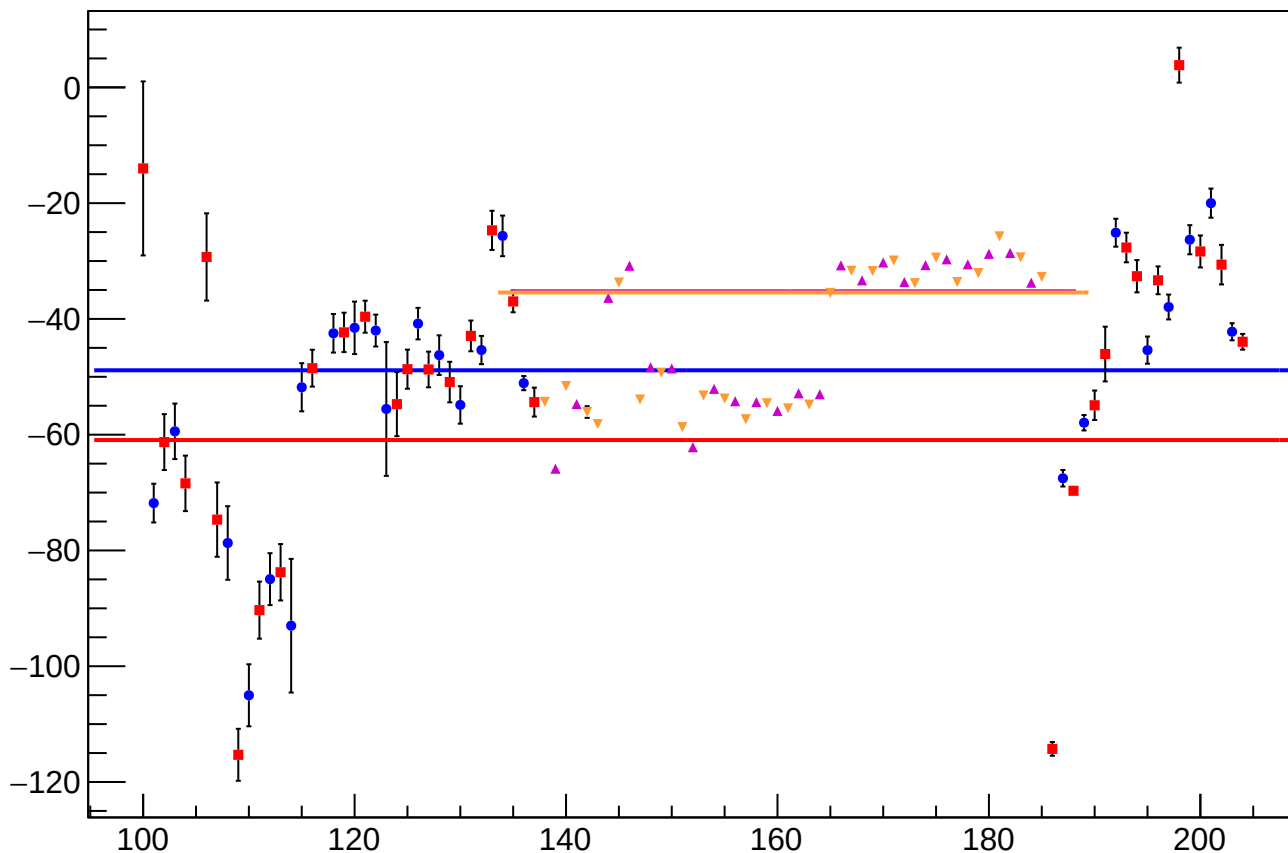
Right: 2.161 ± 0.263 χ^2/NDF : 4577.8/54

In: 6.922 ± 0.073 χ^2/NDF : 3716.7/47

Out: 6.939 ± 0.072 χ^2/NDF : 3658.1/54

All: 6.931 ± 0.051 χ^2/NDF : 7374.8/102

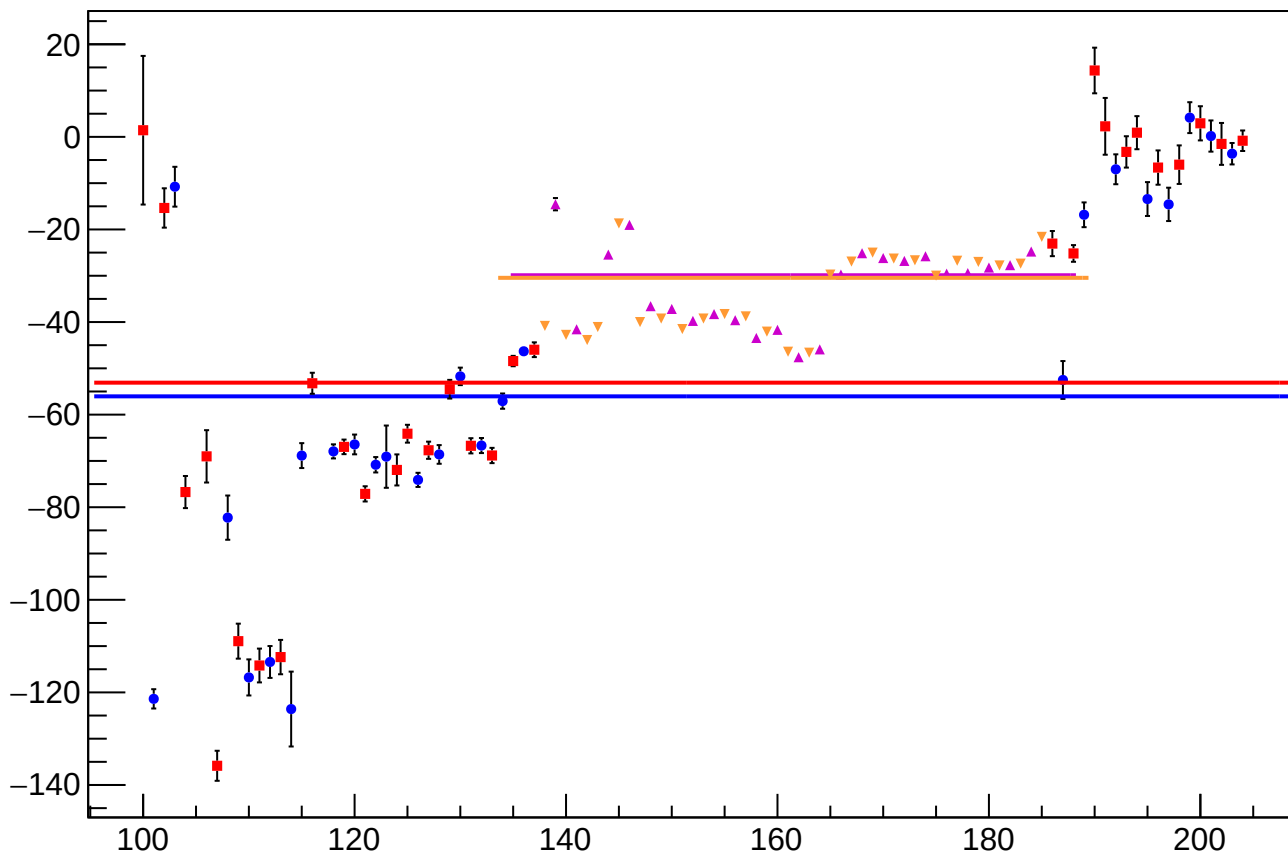
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.874 ± 0.487 χ^2/NDF : 913.1/24
 Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24
 Right Out: -60.927 ± 0.412 χ^2/NDF : 4142.8/29
 Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47
 Right: -55.894 ± 0.315 χ^2/NDF : 5412.5/54
 In: -35.680 ± 0.089 χ^2/NDF : 13274.7/47
 Out: -36.569 ± 0.087 χ^2/NDF : 20575.9/54
 All: -36.133 ± 0.062 χ^2/NDF : 33901.8/102

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -56.051 $\pm$ 0.416 χ^2 /NDF: 4112.7/24

Left Out: -30.448 $\pm$ 0.082 χ^2 /NDF: 8167.7/24

Right Out: -53.094 $\pm$ 0.430 χ^2 /NDF: 4440.8/29

Left In: -29.892 $\pm$ 0.083 χ^2 /NDF: 7115.0/22

Left: -30.174 $\pm$ 0.058 χ^2 /NDF: 15305.7/47

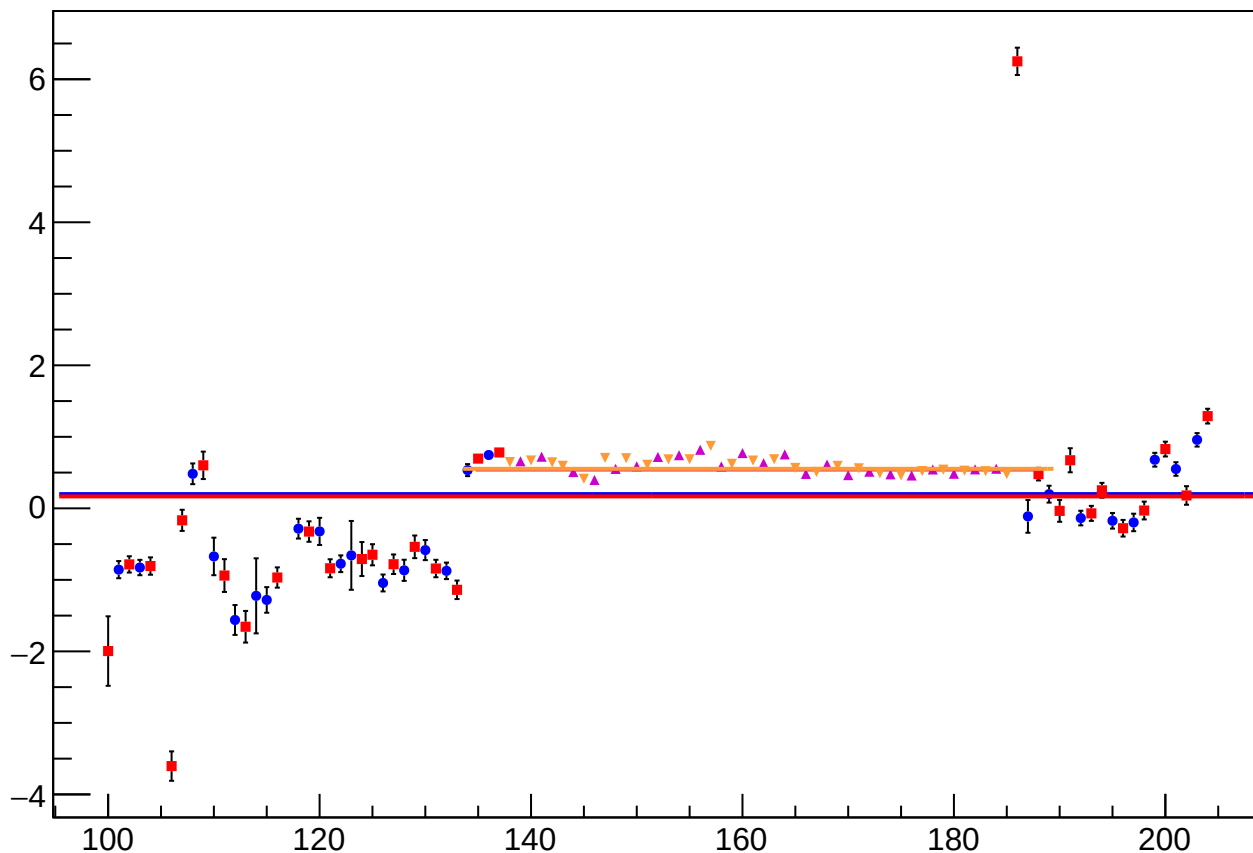
Right: -54.621 $\pm$ 0.299 χ^2 /NDF: 8577.9/54

In: -30.882 $\pm$ 0.081 χ^2 /NDF: 15024.8/47

Out: -31.233 $\pm$ 0.080 χ^2 /NDF: 15284.2/54

All: -31.060 $\pm$ 0.057 χ^2 /NDF: 30318.5/102

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.199 ± 0.020 $\chi^2/\text{NDF}: 1129.3/24$

Left Out: 0.553 ± 0.004 $\chi^2/\text{NDF}: 542.1/24$

Right Out: 0.167 ± 0.021 $\chi^2/\text{NDF}: 2450.7/29$

Left In: 0.544 ± 0.004 $\chi^2/\text{NDF}: 655.9/22$

Left: 0.548 ± 0.003 $\chi^2/\text{NDF}: 1200.9/47$

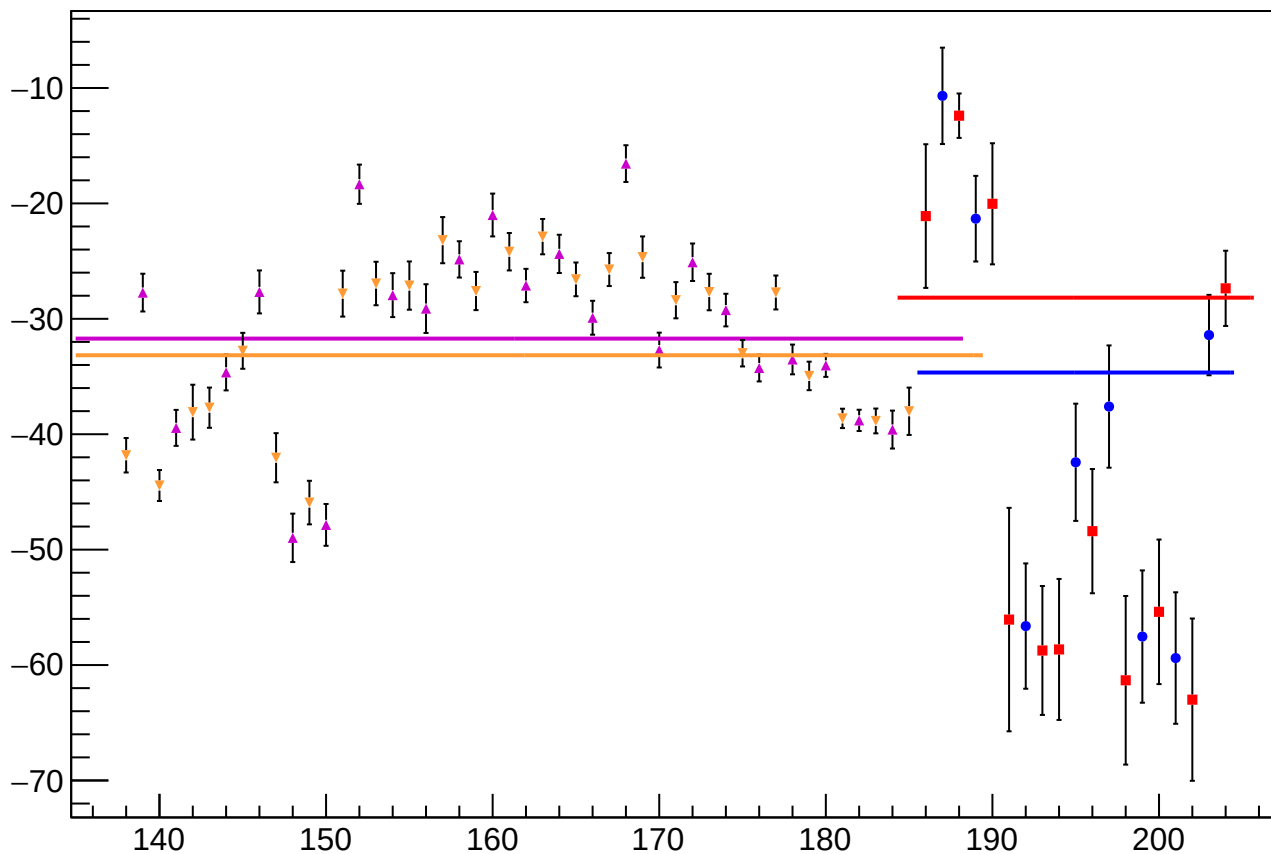
Right: 0.183 ± 0.015 $\chi^2/\text{NDF}: 3581.3/54$

In: 0.532 ± 0.004 $\chi^2/\text{NDF}: 2060.6/47$

Out: 0.541 ± 0.004 $\chi^2/\text{NDF}: 3317.3/54$

All: 0.537 ± 0.003 $\chi^2/\text{NDF}: 5380.9/102$

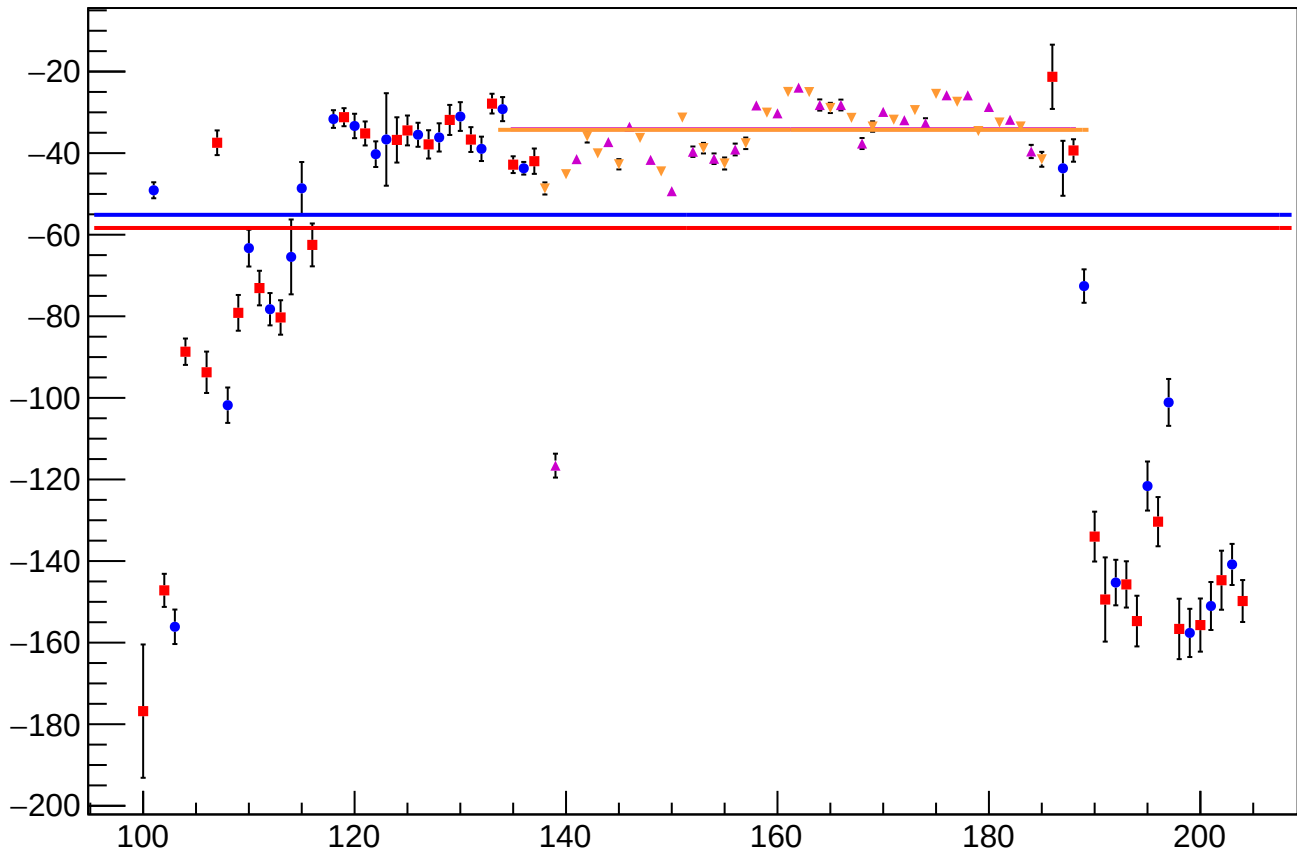
reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.654 ± 1.618 $\chi^2/\text{NDF}: 100.6/7$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -28.166 ± 1.296 $\chi^2/\text{NDF}: 212.2/10$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -30.703 ± 1.012 $\chi^2/\text{NDF}: 322.6/18$
 In: -31.818 ± 0.303 $\chi^2/\text{NDF}: 646.0/30$
 Out: -32.903 ± 0.292 $\chi^2/\text{NDF}: 726.4/35$
 All: -32.380 ± 0.211 $\chi^2/\text{NDF}: 1379.0/66$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -55.123 ± 0.683 χ^2/NDF : 2536.9/24

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -58.348 ± 0.694 χ^2/NDF : 3209.2/29

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

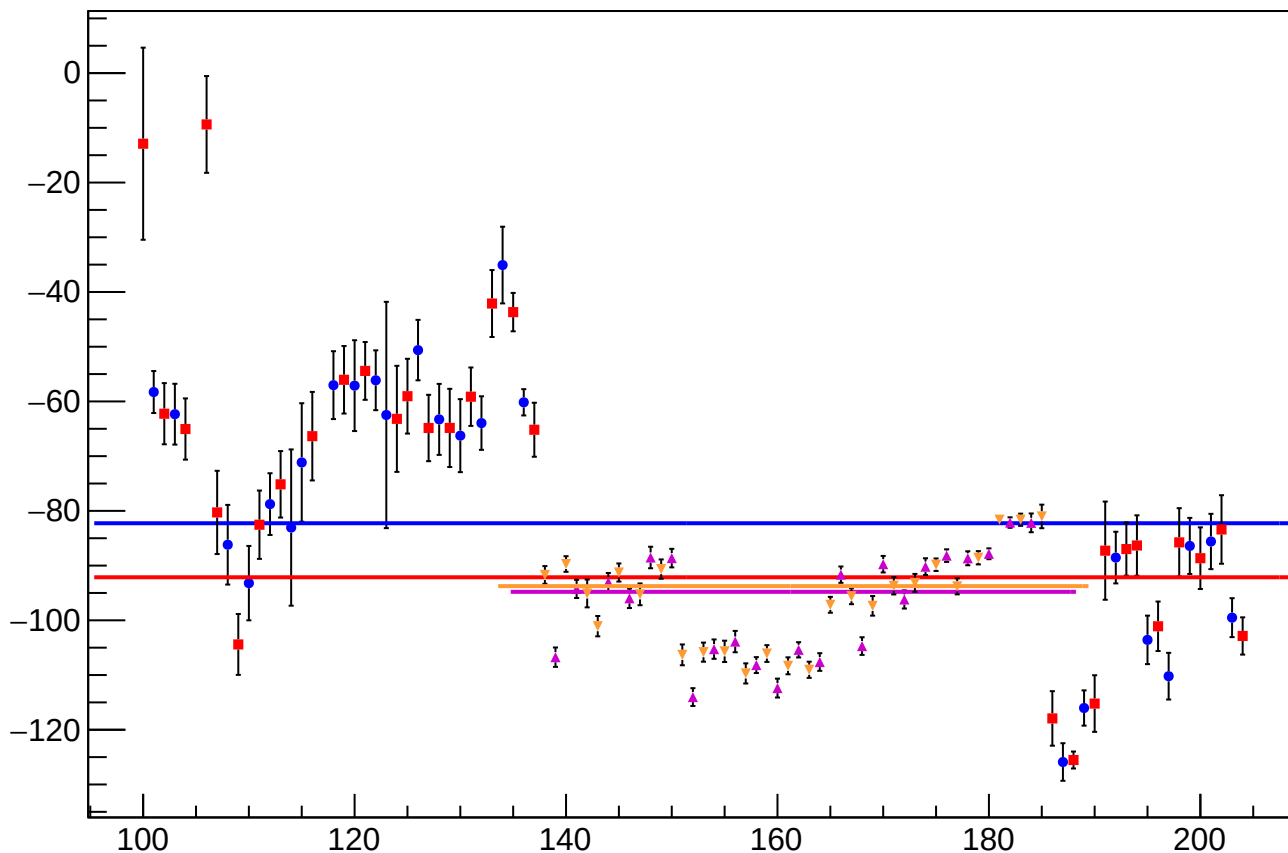
Right: -56.711 ± 0.487 χ^2/NDF : 5757.0/54

In: -36.637 ± 0.235 χ^2/NDF : 4820.4/47

Out: -36.888 ± 0.228 χ^2/NDF : 4977.6/54

All: -36.766 ± 0.164 χ^2/NDF : 9798.6/102

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.259 ± 0.969 χ^2/NDF : 660.6/24

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -92.134 ± 0.870 χ^2/NDF : 1196.0/29

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

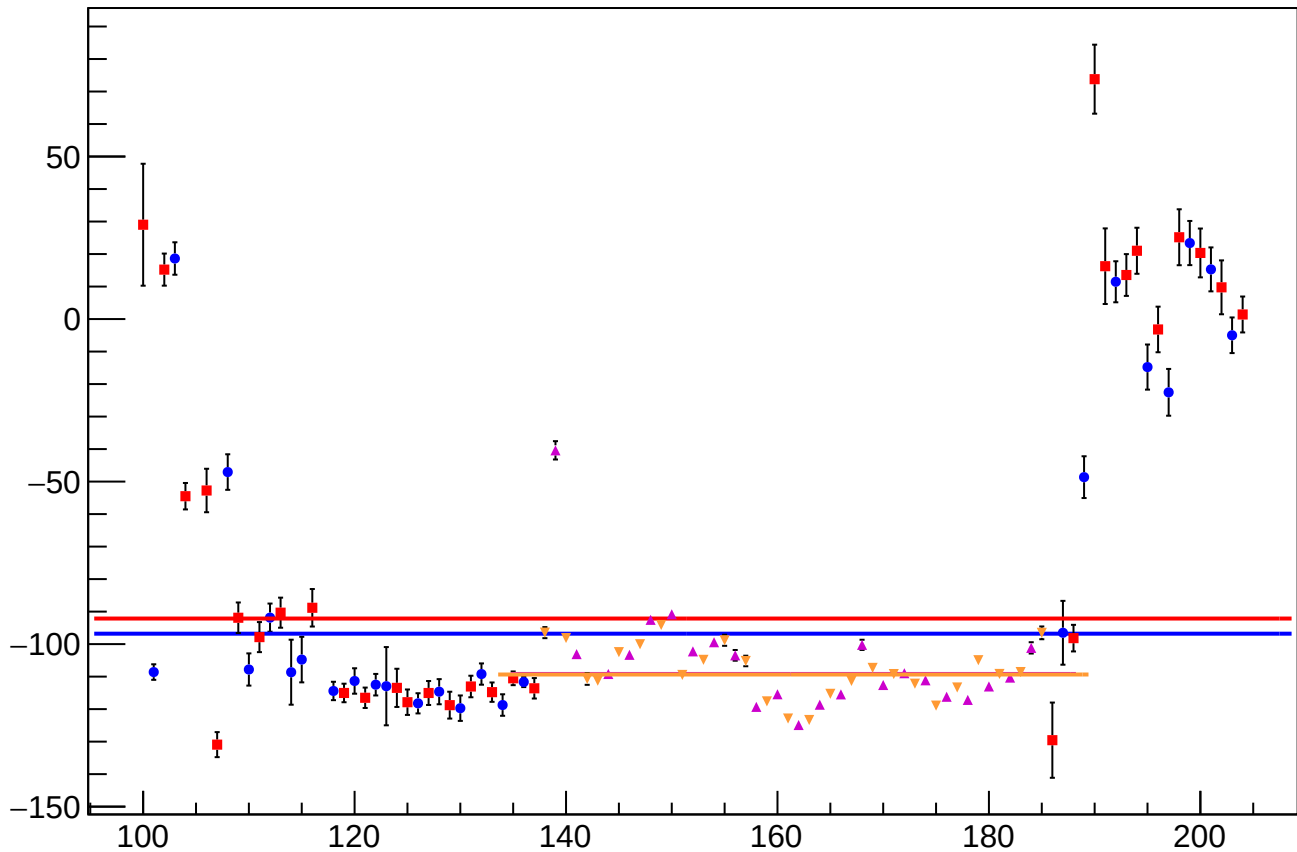
Right: -87.729 ± 0.647 χ^2/NDF : 1914.1/54

In: -93.643 ± 0.294 χ^2/NDF : 1787.2/47

Out: -93.580 ± 0.285 χ^2/NDF : 2082.2/54

All: -93.611 ± 0.205 χ^2/NDF : 3869.5/102

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -96.793 ± 0.774 χ^2/NDF : 2444.9/24

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -92.134 ± 0.798 χ^2/NDF : 3098.3/29

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

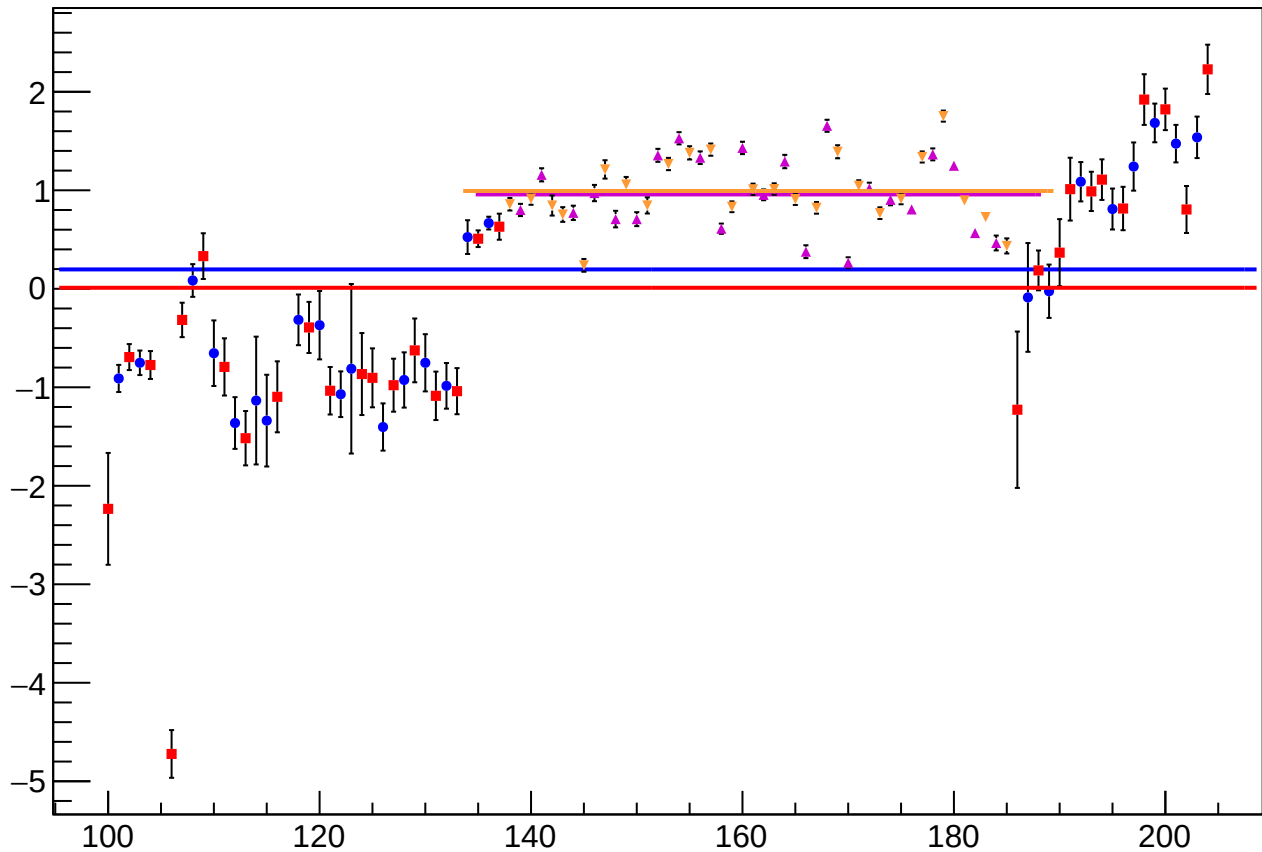
Right: -94.535 ± 0.556 χ^2/NDF : 5560.7/54

In: -107.750 ± 0.263 χ^2/NDF : 4172.8/47

Out: -107.568 ± 0.257 χ^2/NDF : 4342.4/54

All: -107.657 ± 0.184 χ^2/NDF : 8515.4/102

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.197 ± 0.037 χ^2/NDF : 561.6/24

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.010 ± 0.038 χ^2/NDF : 957.2/29

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

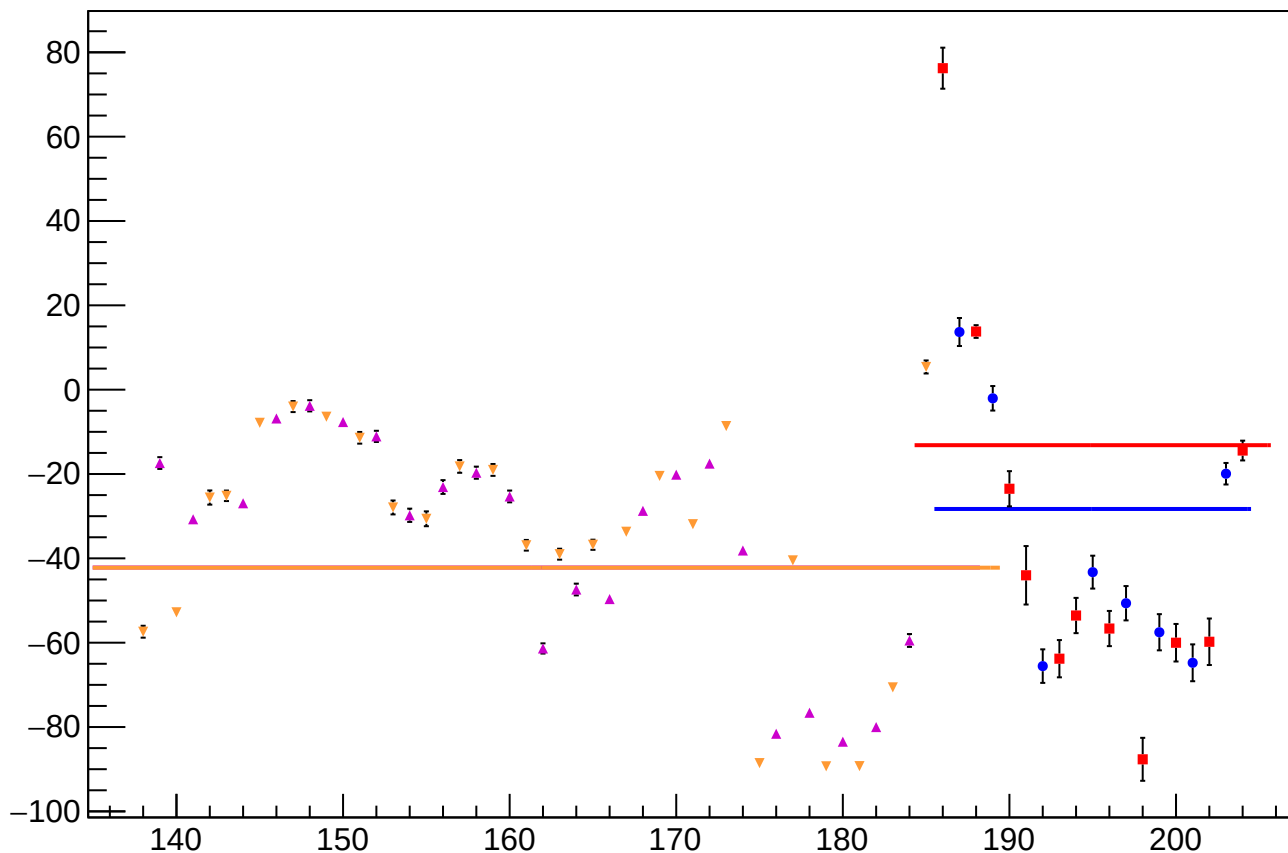
Right: 0.105 ± 0.027 χ^2/NDF : 1531.1/54

In: 0.880 ± 0.012 χ^2/NDF : 1828.8/47

Out: 0.897 ± 0.012 χ^2/NDF : 2206.3/54

All: 0.889 ± 0.008 χ^2/NDF : 4036.2/102

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected

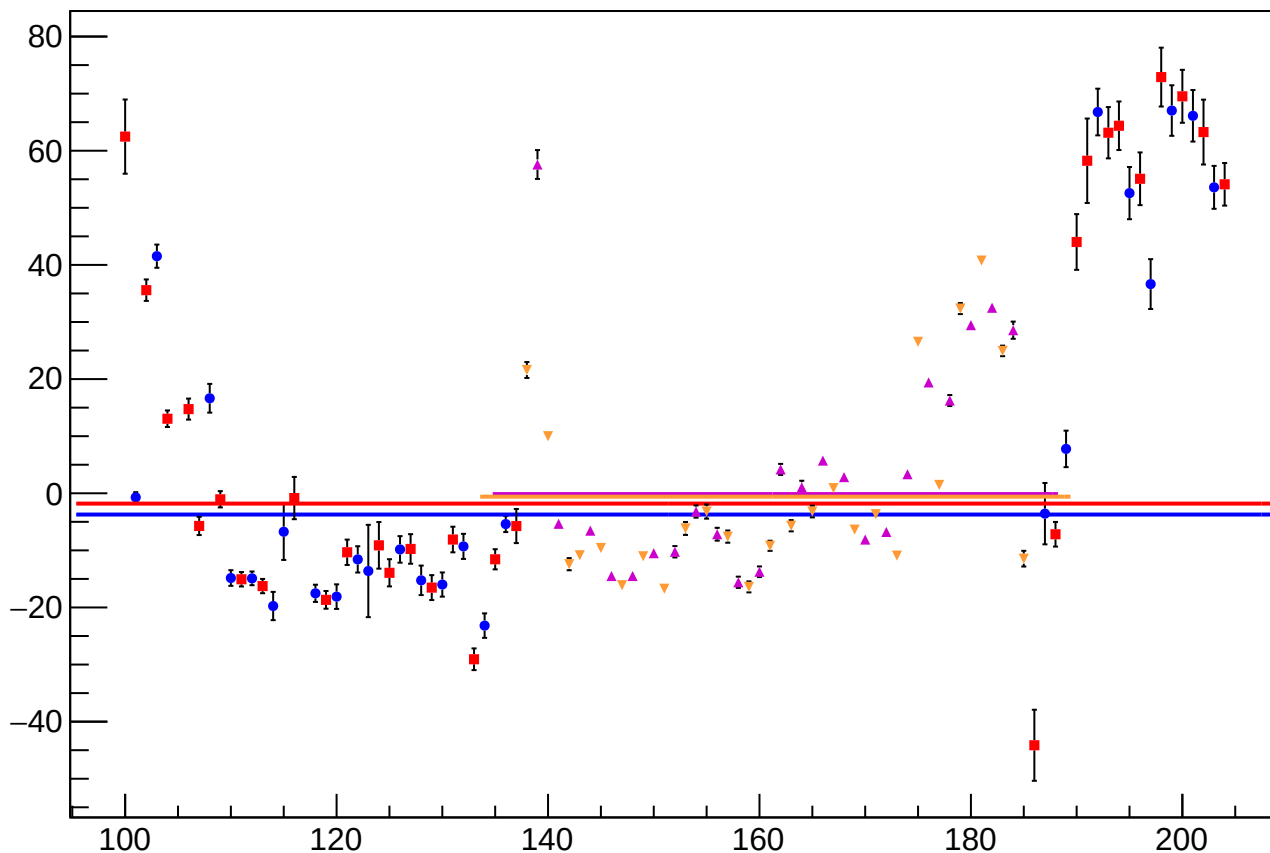


Right In: -28.291 $\pm$ 1.233 χ^2 /NDF: 500.4/7
 Left Out: -42.213 $\pm$ 0.222 χ^2 /NDF:18309.1/24
 Right Out: -13.164 $\pm$ 0.985 χ^2 /NDF: 1412.3/10
 Left In: -42.176 $\pm$ 0.227 χ^2 /NDF:14575.9/22

Left: -42.195 $\pm$ 0.159 χ^2 /NDF: 32885.0/47
 Right: -19.063 $\pm$ 0.770 χ^2 /NDF: 2004.6/18
 In: -41.720 $\pm$ 0.223 χ^2 /NDF:15199.1/30
 Out: -40.810 $\pm$ 0.217 χ^2 /NDF:20548.4/35

All: -41.251 $\pm$ 0.155 χ^2 /NDF: 35756.0/66

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

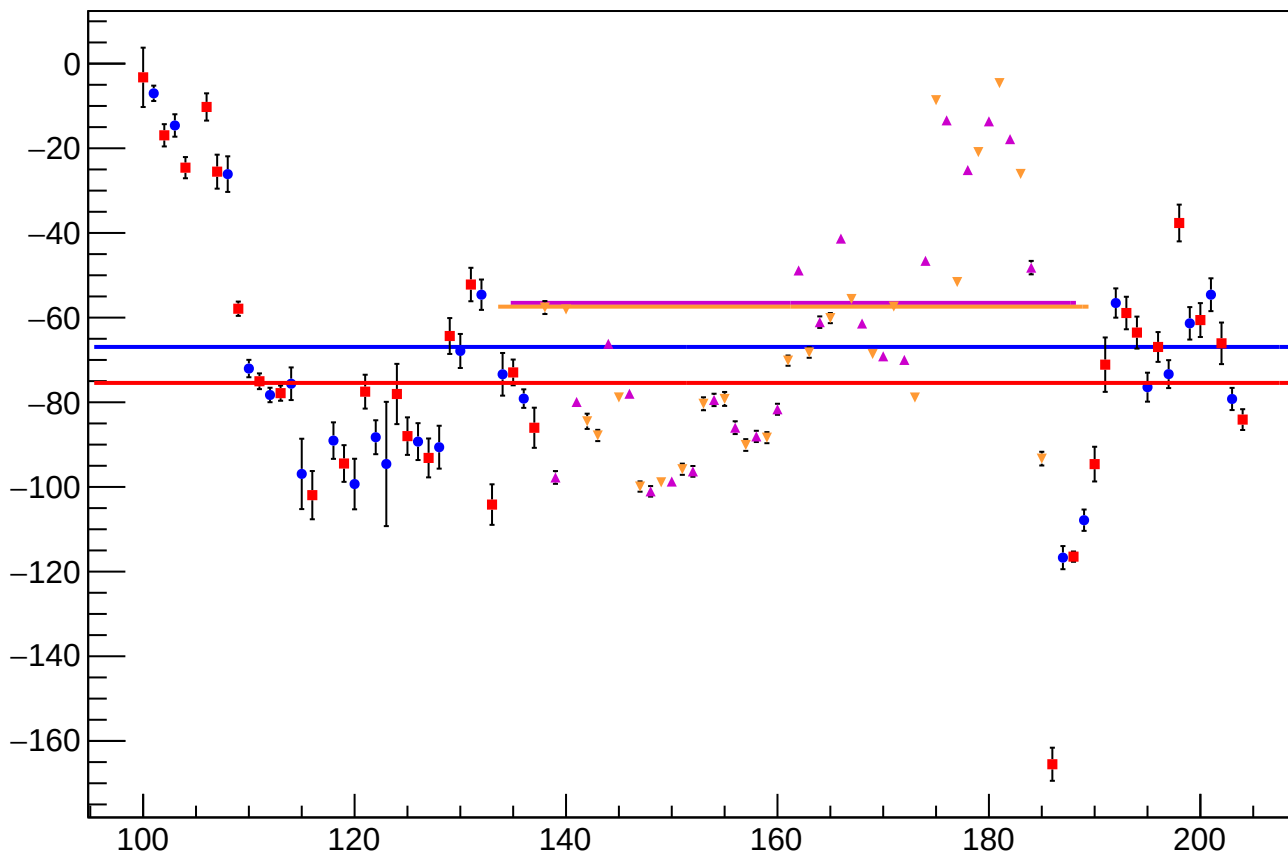


Right In: -3.724 ± 0.413 $\chi^2/\text{NDF}: 2334.7/24$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -1.807 ± 0.406 $\chi^2/\text{NDF}: 3004.9/29$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -2.749 ± 0.290 $\chi^2/\text{NDF}: 5350.5/54$
 In: -0.708 ± 0.164 $\chi^2/\text{NDF}: 9260.4/47$
 Out: -0.779 ± 0.160 $\chi^2/\text{NDF}: 11763.4/54$

All: -0.745 ± 0.115 $\chi^2/\text{NDF}: 21023.9/102$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.927 $\pm$ 0.617 χ^2 /NDF: 2471.4/24

Left Out: -57.413 $\pm$ 0.223 χ^2 /NDF:18604.1/24

Right Out: -75.427 $\pm$ 0.544 χ^2 /NDF: 3661.8/29

Left In: -56.519 $\pm$ 0.227 χ^2 /NDF:16352.6/22

Left: -56.974 $\pm$ 0.159 χ^2 /NDF: 34964.5/47

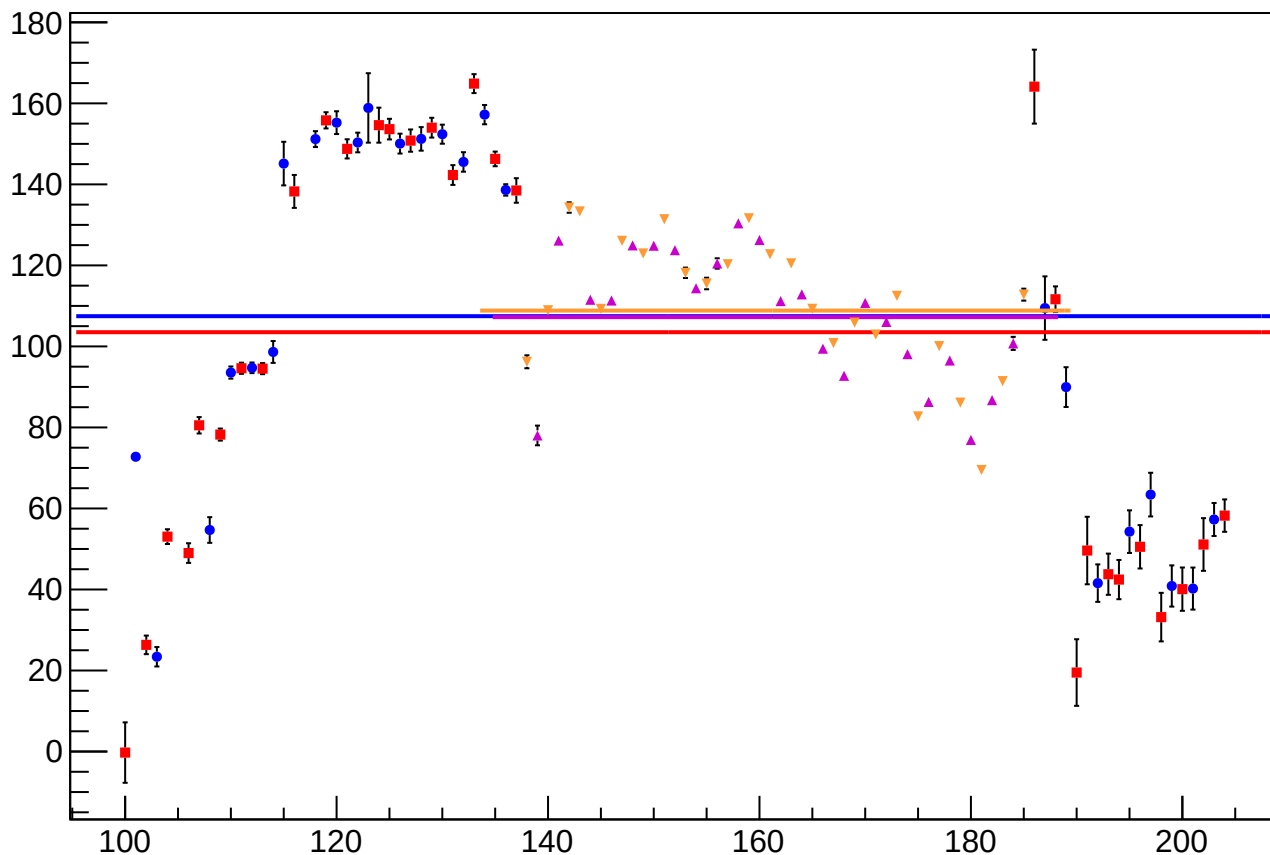
Right: -71.709 $\pm$ 0.408 χ^2 /NDF: 6239.9/54

In: -57.759 $\pm$ 0.213 χ^2 /NDF:19074.4/47

Out: -60.007 $\pm$ 0.207 χ^2 /NDF:23203.6/54

All: -58.918 $\pm$ 0.148 χ^2 /NDF: 42335.4/102

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 107.466 $\pm$ 0.473 χ^2 /NDF: 6795.7/24

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 103.510 $\pm$ 0.466 χ^2 /NDF: 8163.3/29

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

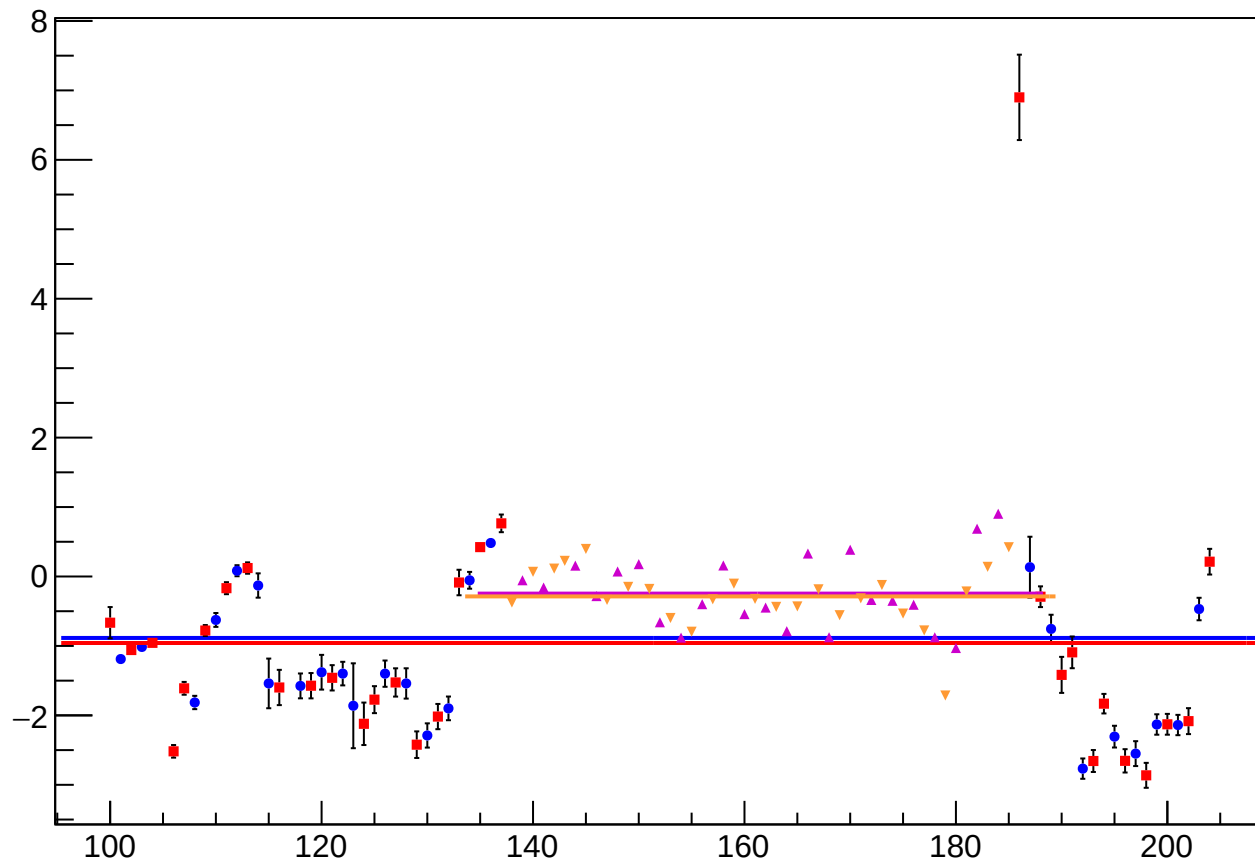
Right: 105.461 $\pm$ 0.332 χ^2 /NDF: 14994.5/54

In: 107.262 $\pm$ 0.186 χ^2 /NDF: 12361.2/47

Out: 108.036 $\pm$ 0.182 χ^2 /NDF: 15674.7/54

All: 107.658 $\pm$ 0.130 χ^2 /NDF: 28044.7/102

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.885 ± 0.024 χ^2/NDF : 1536.9/24

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.958 ± 0.022 χ^2/NDF : 2029.8/29

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

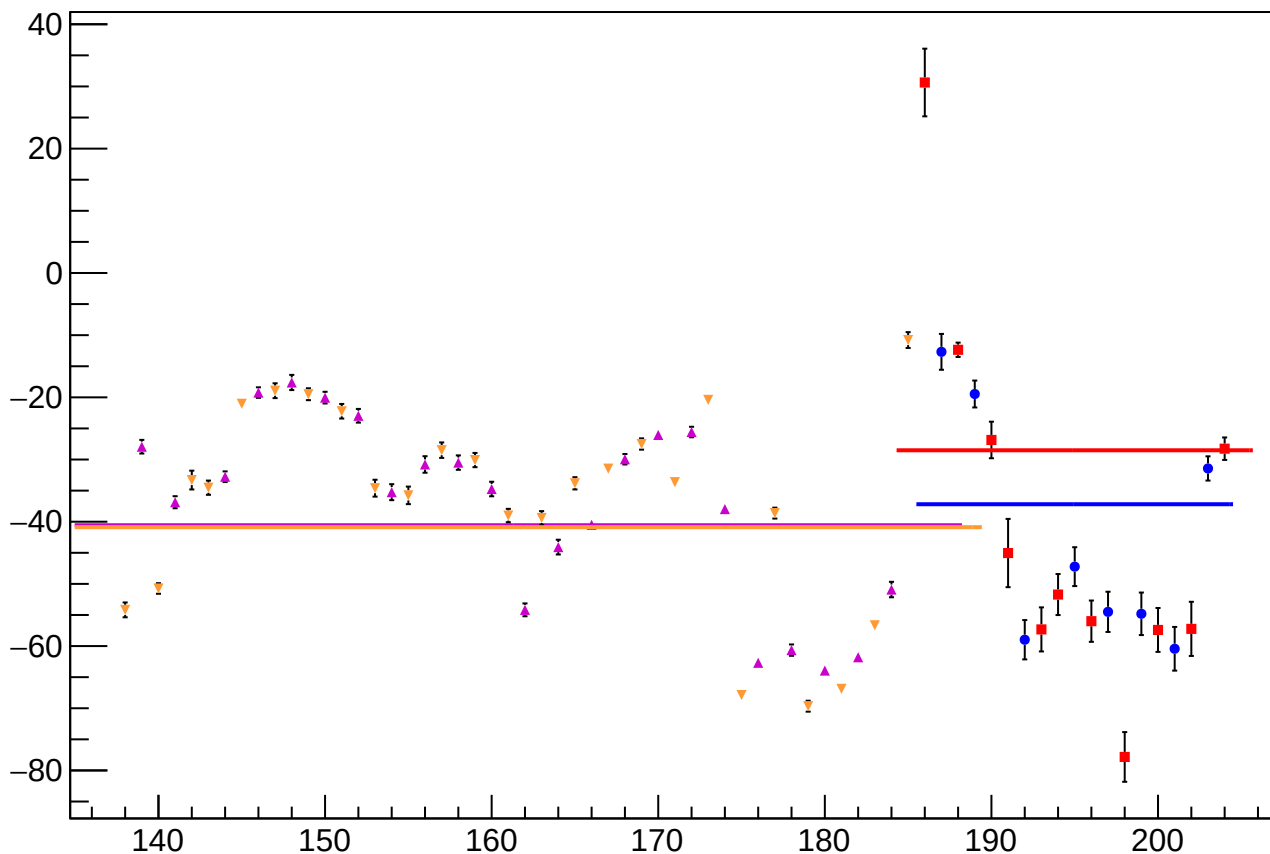
Right: -0.924 ± 0.016 χ^2/NDF : 3571.8/54

In: -0.331 ± 0.009 χ^2/NDF : 4957.7/47

Out: -0.383 ± 0.008 χ^2/NDF : 4863.1/54

All: -0.357 ± 0.006 χ^2/NDF : 9839.3/102

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



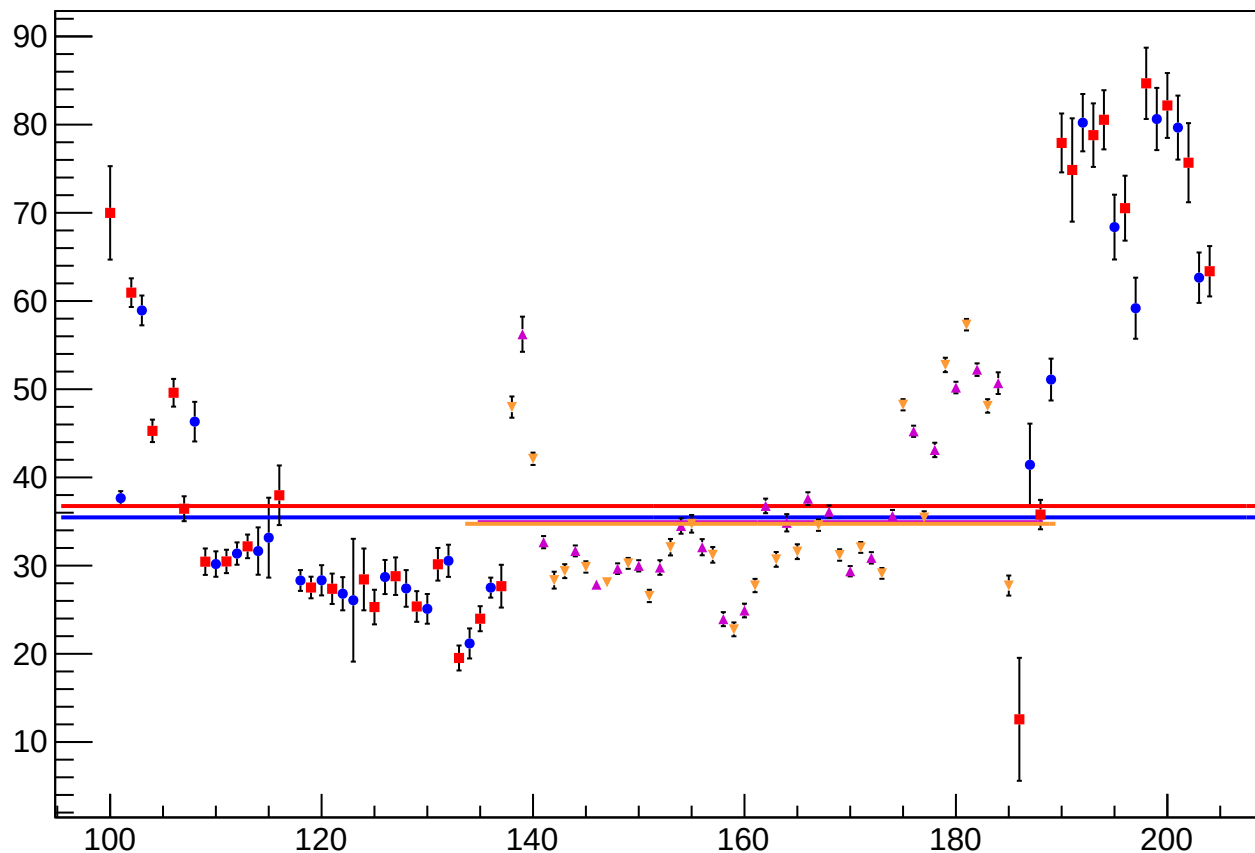
Right In: -37.188 ± 0.971 χ^2/NDF : 304.9/7
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -28.513 ± 0.768 χ^2/NDF : 770.0/10
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -31.852 ± 0.602 χ^2/NDF : 1124.1/18

In: -40.442 ± 0.186 χ^2/NDF : 7271.4/30
 Out: -40.193 ± 0.181 χ^2/NDF : 10138.3/35

All: -40.314 ± 0.130 χ^2/NDF : 17410.6/66

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.469+/-0.357 χ^2/NDF : 1283.6/24

Left Out: 34.741+/-0.147 χ^2/NDF : 3693.2/24

Right Out: 36.754+/-0.354 χ^2/NDF : 1916.8/29

Left In: 34.922+/-0.152 χ^2/NDF : 2672.9/22

Left: 34.829+/-0.106 χ^2/NDF : 6366.8/47

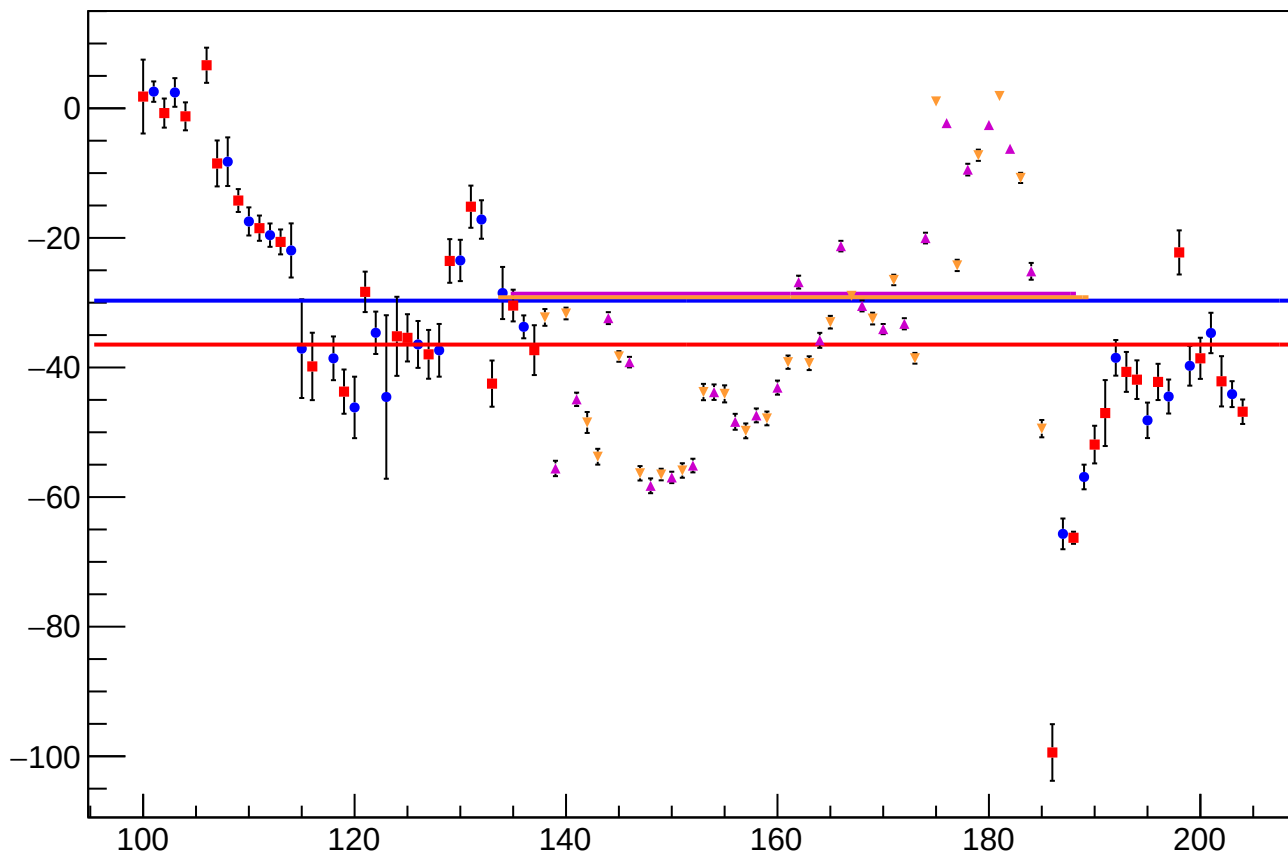
Right: 36.119+/-0.251 χ^2/NDF : 3207.0/54

In: 35.006+/-0.140 χ^2/NDF : 3958.5/47

Out: 35.039+/-0.136 χ^2/NDF : 5637.6/54

All: 35.023+/-0.097 χ^2/NDF : 9596.1/102

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.684 ± 0.530 $\chi^2/\text{NDF}: 1376.8/24$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -36.464 ± 0.464 $\chi^2/\text{NDF}: 2587.3/29$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

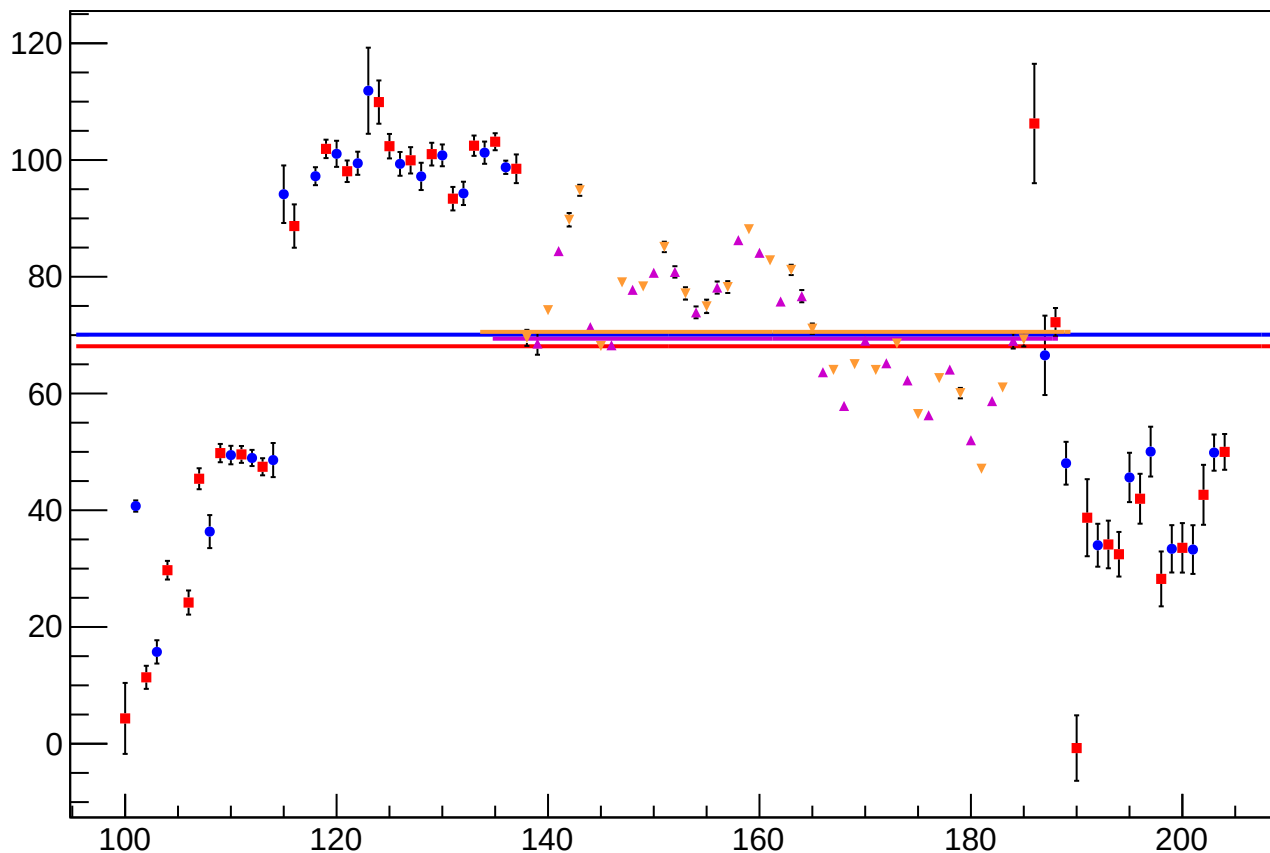
Right: -33.520 ± 0.349 $\chi^2/\text{NDF}: 4056.8/54$

In: -28.738 ± 0.179 $\chi^2/\text{NDF}: 10421.3/47$

Out: -30.183 ± 0.173 $\chi^2/\text{NDF}: 12926.2/54$

All: -29.482 ± 0.124 $\chi^2/\text{NDF}: 23381.1/102$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 70.080 ± 0.410 $\chi^2/\text{NDF}: 5095.2/24$

Left Out: 70.563 ± 0.166 $\chi^2/\text{NDF}: 4589.1/24$

Right Out: 68.093 ± 0.409 $\chi^2/\text{NDF}: 6111.6/29$

Left In: 69.387 ± 0.170 $\chi^2/\text{NDF}: 3321.8/22$

Left: 69.989 ± 0.119 $\chi^2/\text{NDF}: 7935.4/47$

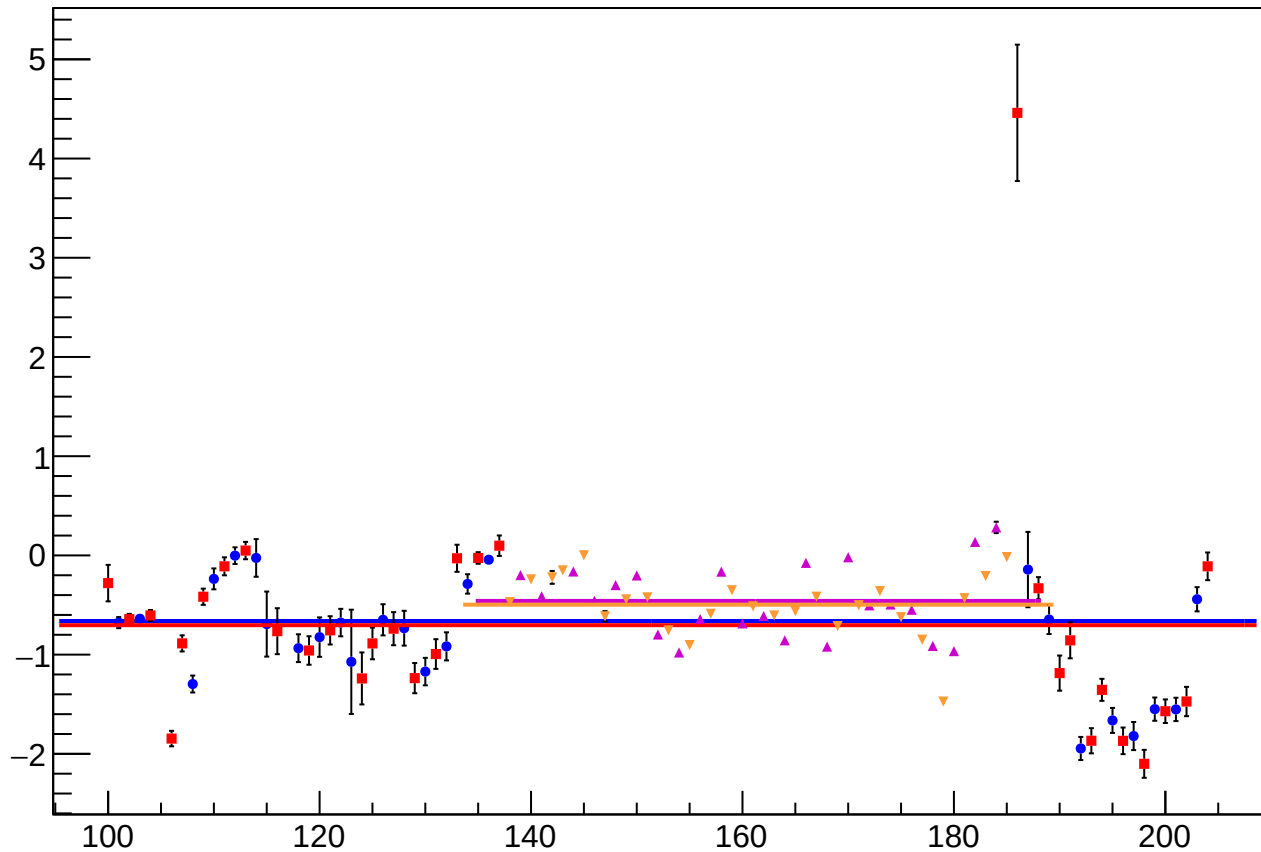
Right: 69.083 ± 0.290 $\chi^2/\text{NDF}: 11218.6/54$

In: 69.489 ± 0.157 $\chi^2/\text{NDF}: 8419.4/47$

Out: 70.213 ± 0.154 $\chi^2/\text{NDF}: 10732.0/54$

All: 69.858 ± 0.110 $\chi^2/\text{NDF}: 19162.3/102$

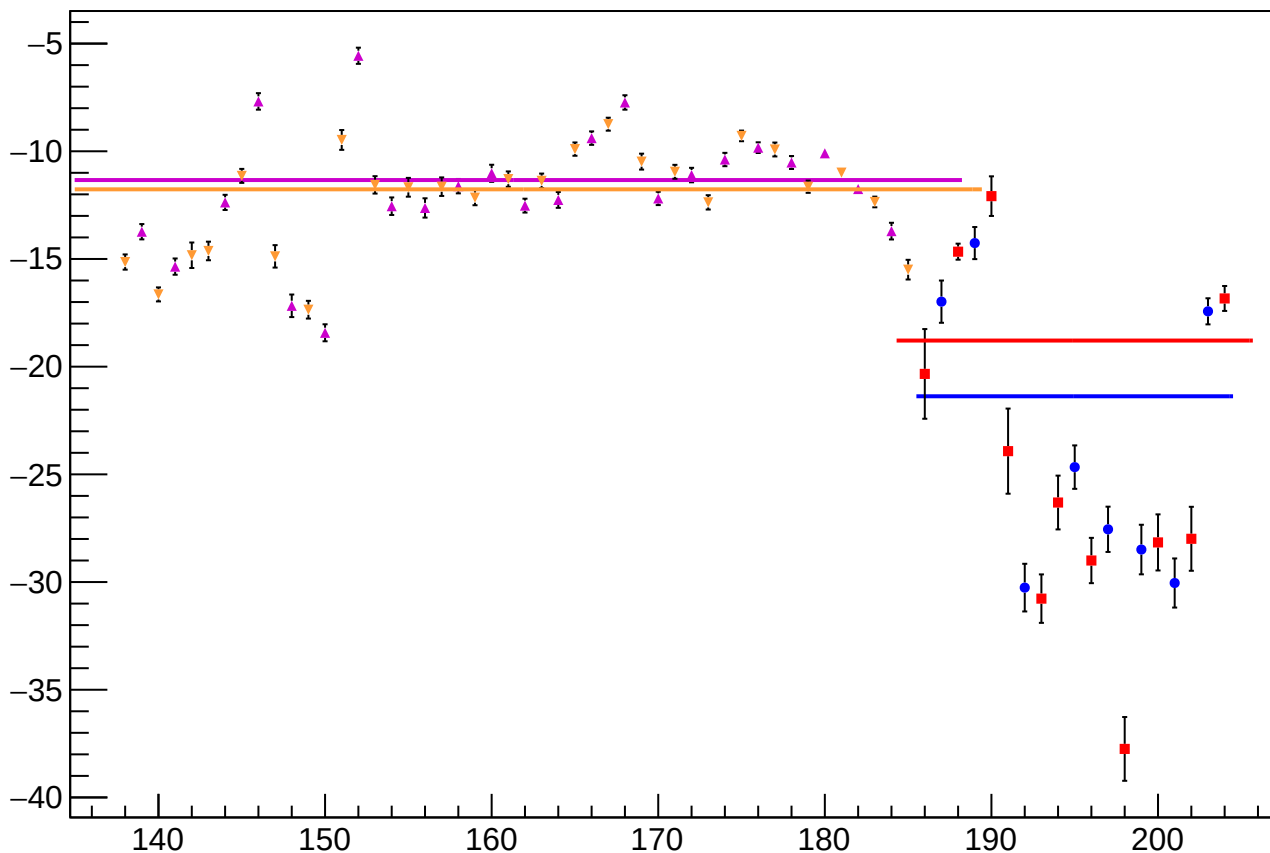
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.661 ± 0.020 χ^2/NDF : 727.3/24
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.703 ± 0.019 χ^2/NDF : 1070.4/29
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.683 ± 0.014 χ^2/NDF : 1799.9/54
 In: -0.485 ± 0.007 χ^2/NDF : 2773.5/47
 Out: -0.525 ± 0.007 χ^2/NDF : 2620.4/54
 All: -0.505 ± 0.005 χ^2/NDF : 5409.7/102

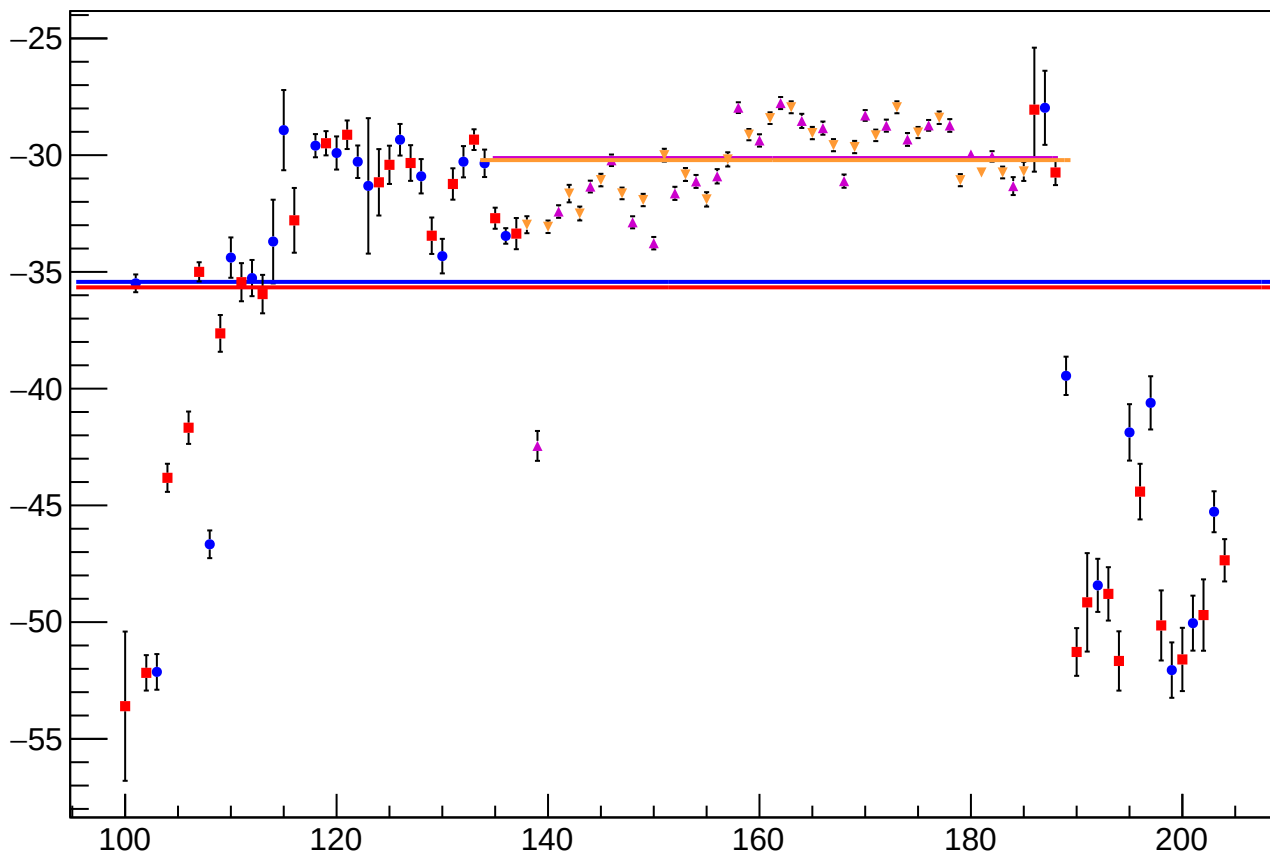
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -21.375 ± 0.320 $\chi^2/\text{NDF}: 359.2/7$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.788 ± 0.252 $\chi^2/\text{NDF}: 692.9/10$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$
 Right: -19.781 ± 0.198 $\chi^2/\text{NDF}: 1092.5/18$
 In: -11.771 ± 0.067 $\chi^2/\text{NDF}: 2572.7/30$
 Out: -12.225 ± 0.064 $\chi^2/\text{NDF}: 2437.3/35$
 All: -12.005 ± 0.046 $\chi^2/\text{NDF}: 5034.0/66$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.427 ± 0.141 χ^2/NDF : 2100.6/24

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -35.662 ± 0.137 χ^2/NDF : 2634.9/29

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

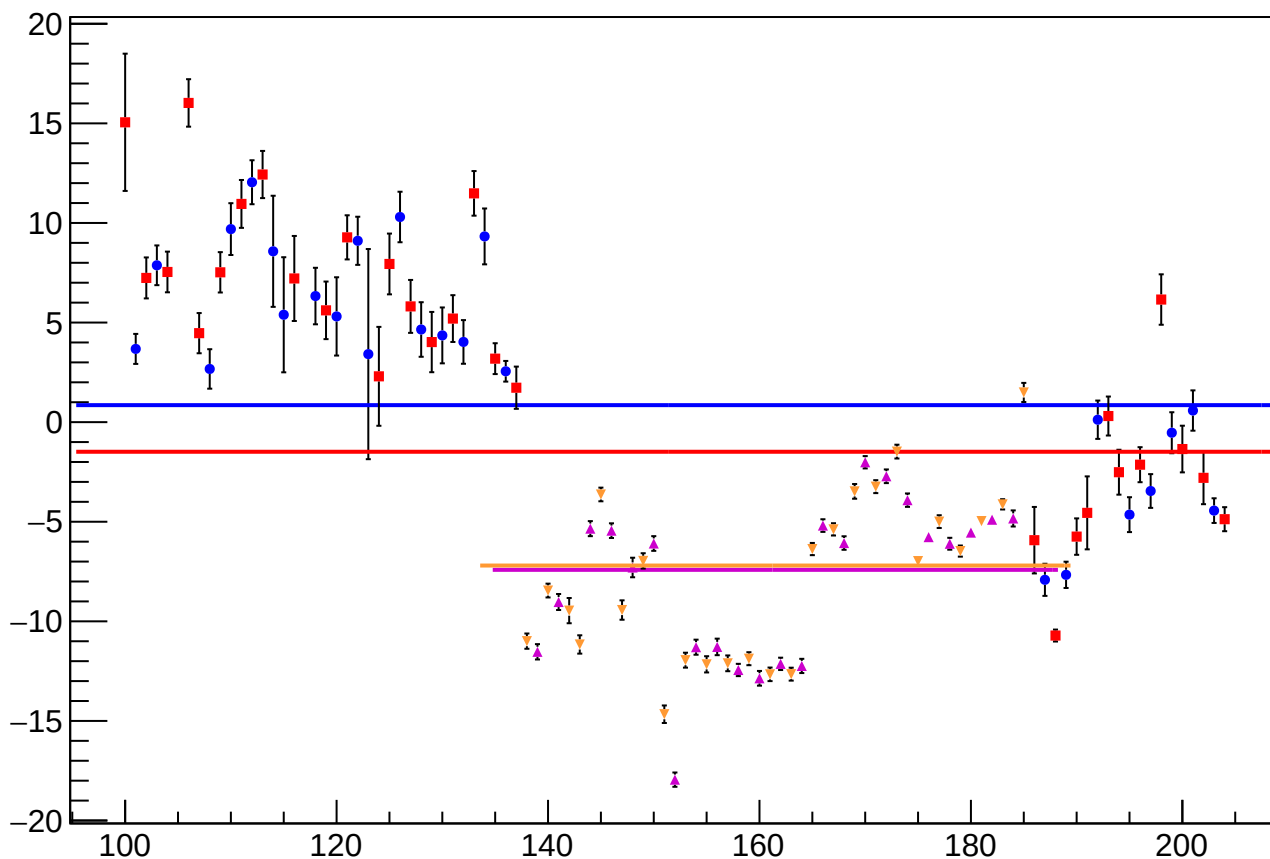
Right: -35.548 ± 0.098 χ^2/NDF : 4737.0/54

In: -30.834 ± 0.052 χ^2/NDF : 4548.6/47

Out: -30.942 ± 0.050 χ^2/NDF : 4740.7/54

All: -30.890 ± 0.036 χ^2/NDF : 9291.5/102

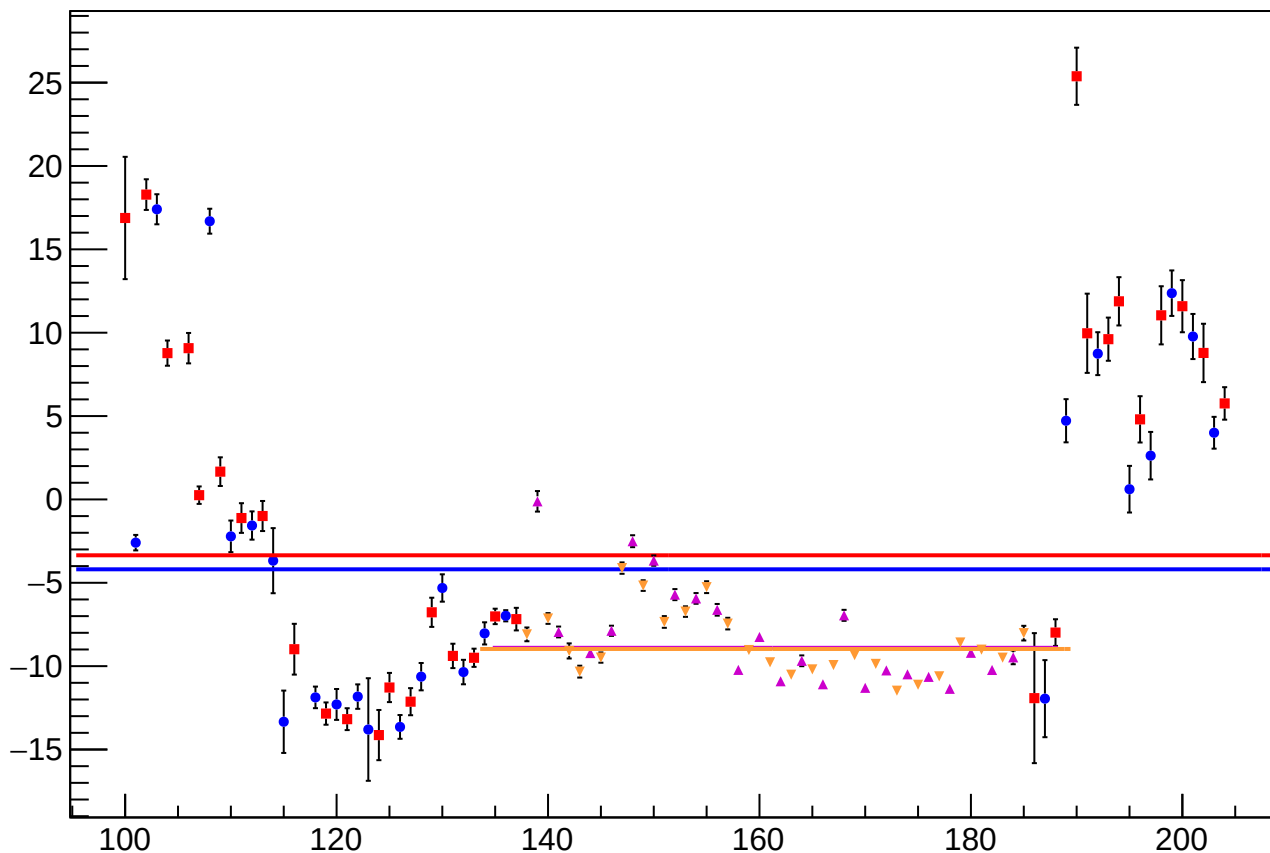
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.854 ± 0.197 $\chi^2/\text{NDF}: 843.9/24$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.486 ± 0.172 $\chi^2/\text{NDF}: 2229.0/29$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -0.477 ± 0.129 $\chi^2/\text{NDF}: 3153.3/54$
 In: -6.537 ± 0.064 $\chi^2/\text{NDF}: 5543.2/47$
 Out: -6.445 ± 0.062 $\chi^2/\text{NDF}: 6228.9/54$
 All: -6.490 ± 0.045 $\chi^2/\text{NDF}: 11773.1/102$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.192 ± 0.161 χ^2/NDF : 2673.2/24

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -3.351 ± 0.160 χ^2/NDF : 3007.5/29

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

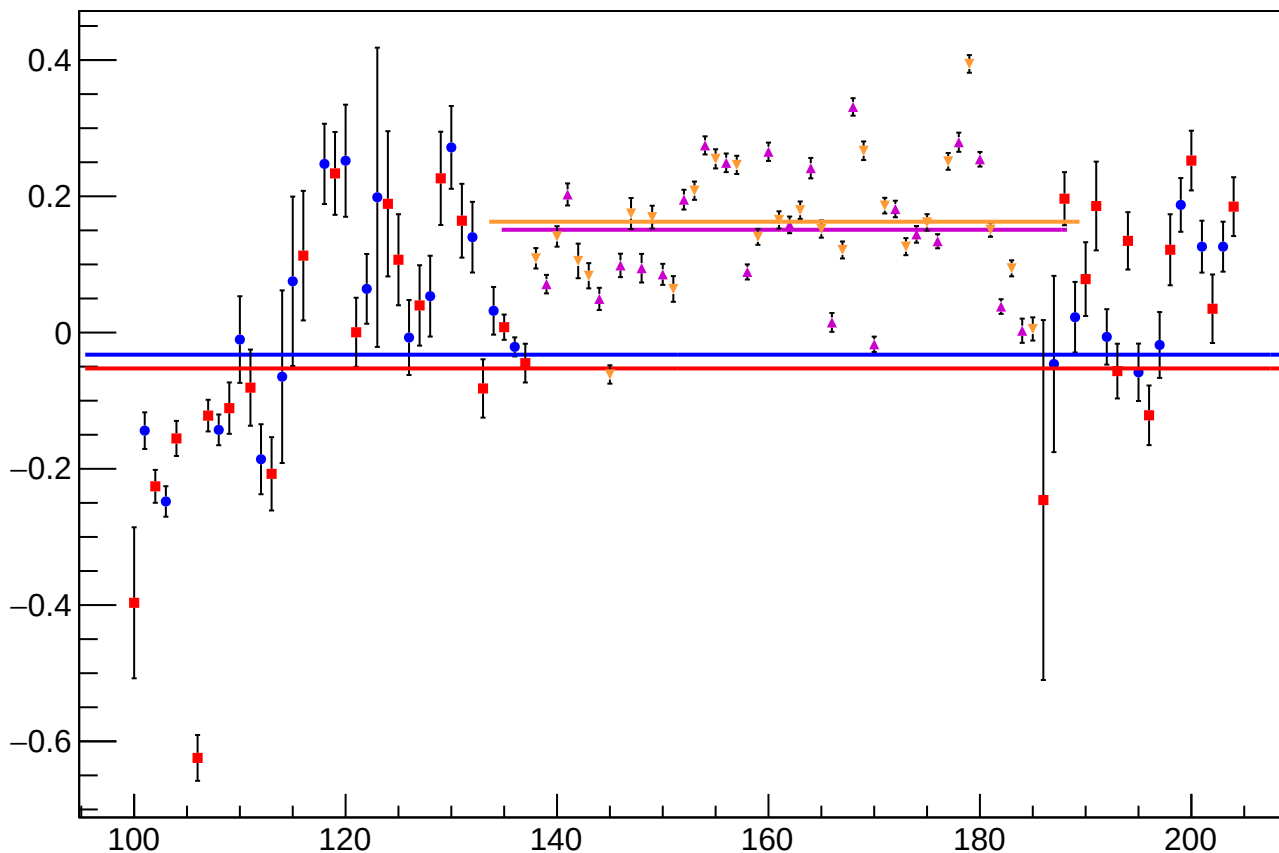
Right: -3.769 ± 0.113 χ^2/NDF : 5694.5/54

In: -8.296 ± 0.058 χ^2/NDF : 4955.9/47

Out: -8.272 ± 0.056 χ^2/NDF : 4970.3/54

All: -8.283 ± 0.040 χ^2/NDF : 9926.3/102

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.032 ± 0.007 χ^2/NDF : 294.7/24

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.053 ± 0.007 χ^2/NDF : 645.3/29

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

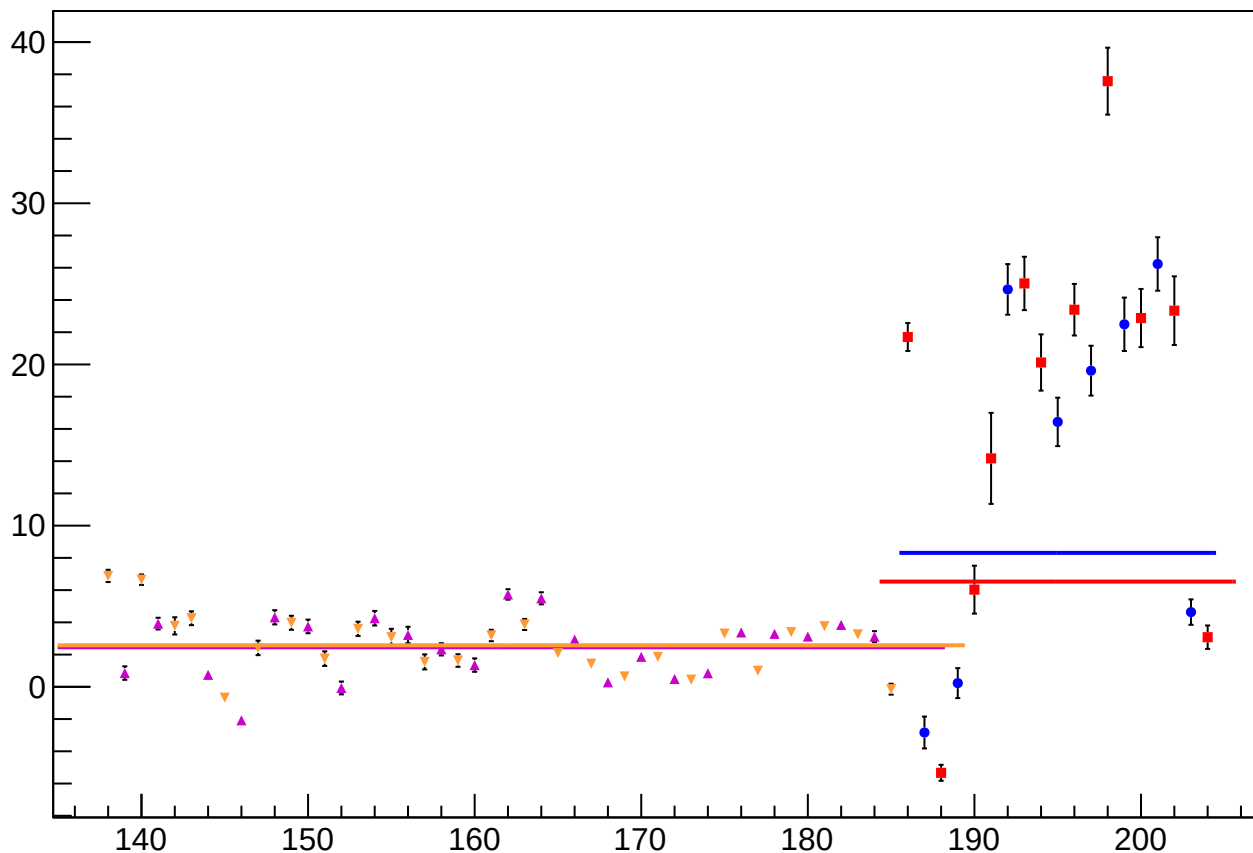
Right: -0.043 ± 0.005 χ^2/NDF : 943.7/54

In: 0.128 ± 0.003 χ^2/NDF : 2119.5/47

Out: 0.136 ± 0.003 χ^2/NDF : 2428.2/54

All: 0.132 ± 0.002 χ^2/NDF : 4552.4/102

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected

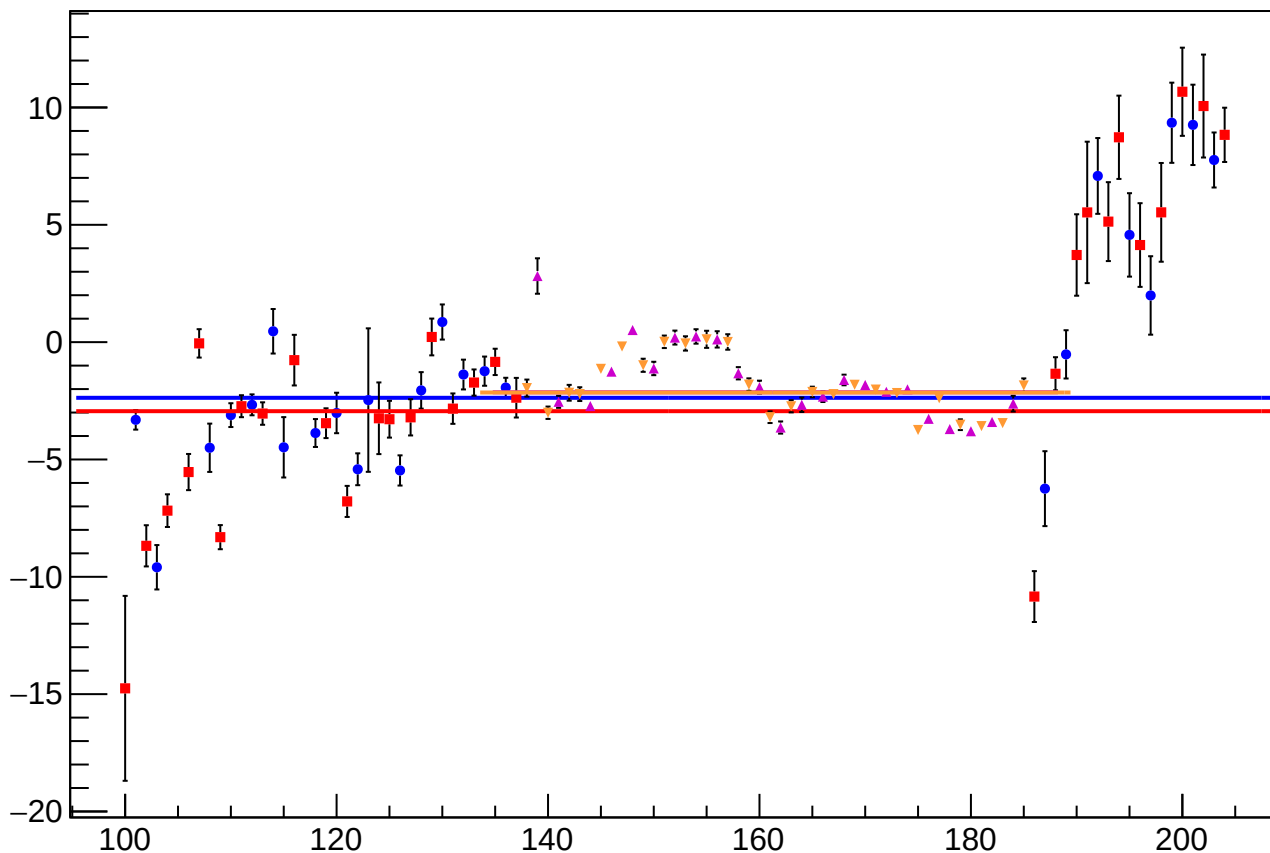


Right In: 8.311 ± 0.416 $\chi^2/\text{NDF}: 605.3/7$
 Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$
 Right Out: 6.529 ± 0.321 $\chi^2/\text{NDF}: 1572.5/10$
 Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$
 Right: 7.194 ± 0.254 $\chi^2/\text{NDF}: 2189.3/18$
 In: 2.569 ± 0.059 $\chi^2/\text{NDF}: 1670.9/30$
 Out: 2.703 ± 0.057 $\chi^2/\text{NDF}: 2586.7/35$

All: 2.638 ± 0.041 $\chi^2/\text{NDF}: 4260.2/66$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.372 ± 0.148 χ^2/NDF : 391.1/24

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -2.942 ± 0.145 χ^2/NDF : 677.1/29

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

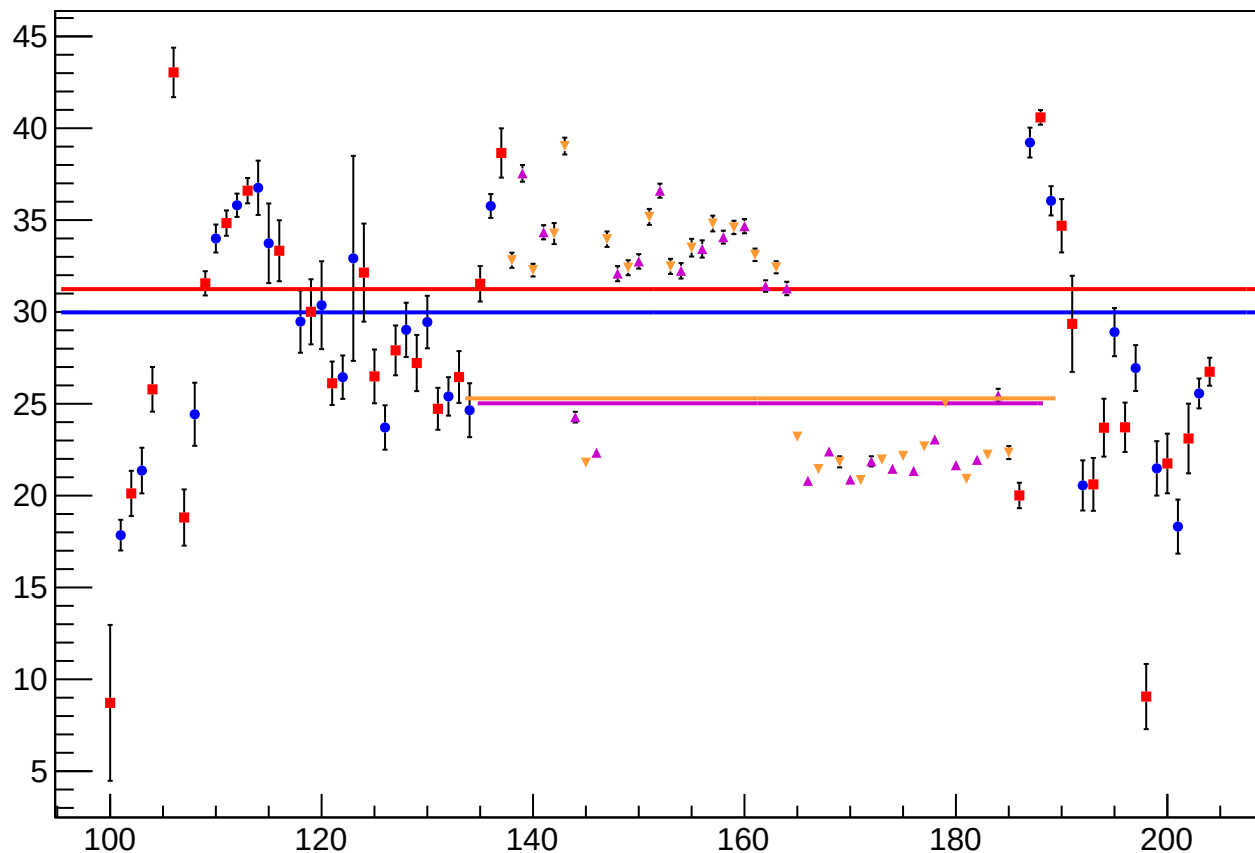
Right: -2.663 ± 0.104 χ^2/NDF : 1075.7/54

In: -2.159 ± 0.046 χ^2/NDF : 1084.6/47

Out: -2.223 ± 0.045 χ^2/NDF : 1277.7/54

All: -2.192 ± 0.032 χ^2/NDF : 2363.2/102

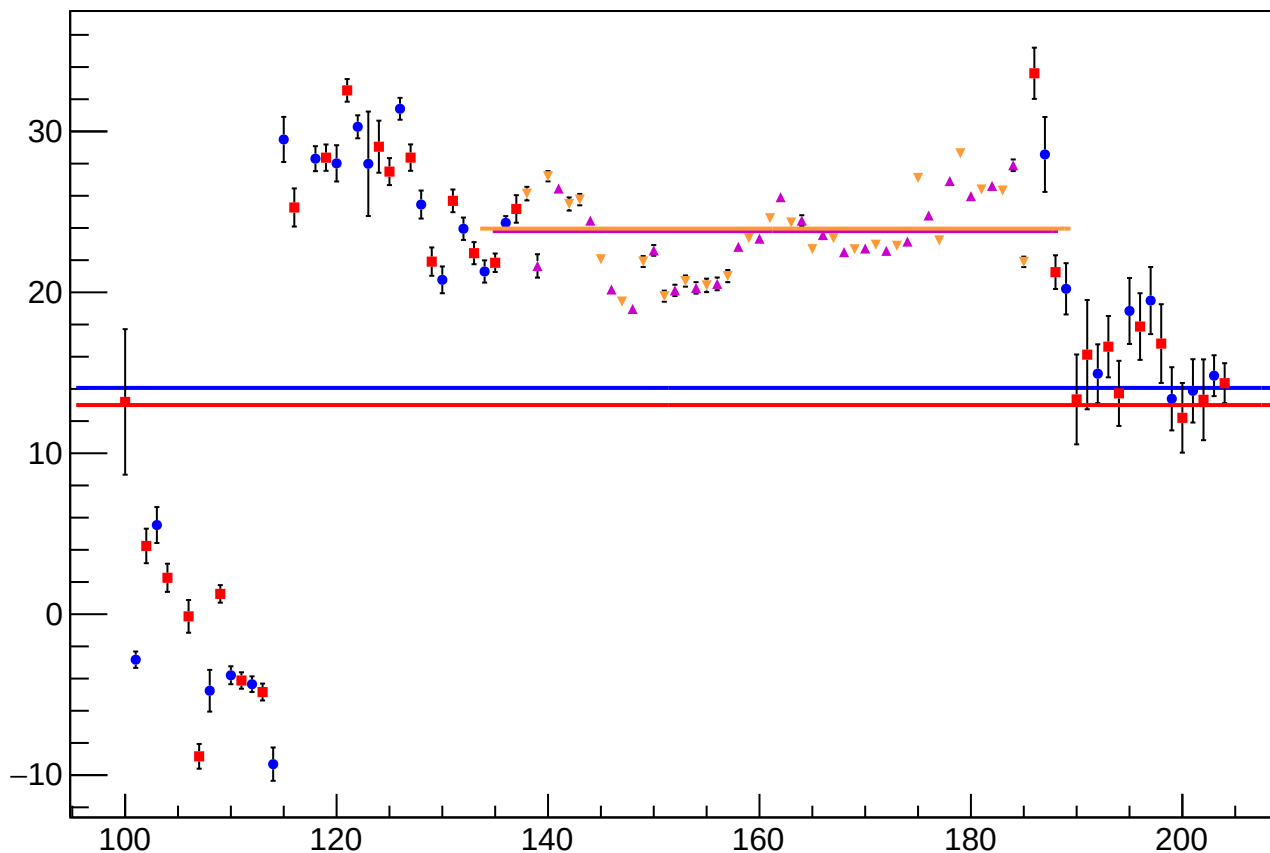
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.976 ± 0.217 χ^2/NDF : 921.0/24
 Left Out: 25.296 ± 0.059 χ^2/NDF : 8272.3/24
 Right Out: 31.242 ± 0.190 χ^2/NDF : 1646.6/29
 Left In: 25.025 ± 0.060 χ^2/NDF : 7610.5/22

Left: 25.162 ± 0.042 χ^2/NDF : 15893.3/47
 Right: 30.694 ± 0.143 χ^2/NDF : 2586.9/54
 In: 25.372 ± 0.057 χ^2/NDF : 9015.4/47
 Out: 25.818 ± 0.056 χ^2/NDF : 10816.4/54
 All: 25.600 ± 0.040 χ^2/NDF : 19862.6/102

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.061 $\pm$ 0.167 χ^2 /NDF: 7343.4/24

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.996 $\pm$ 0.166 χ^2 /NDF: 7208.7/29

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

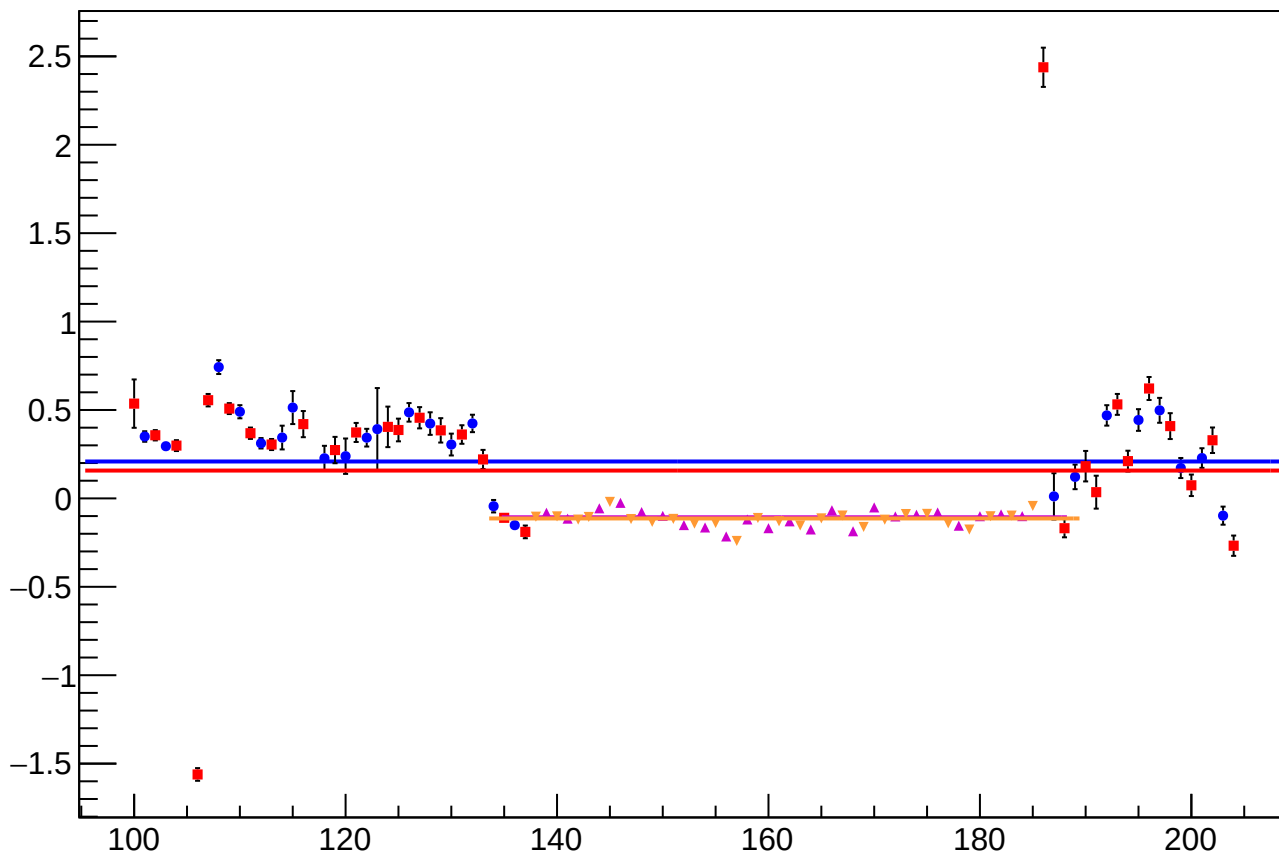
Right: 13.524 $\pm$ 0.118 χ^2 /NDF: 14572.6/54

In: 22.881 $\pm$ 0.051 χ^2 /NDF:12188.8/47

Out: 22.937 $\pm$ 0.051 χ^2 /NDF:13109.5/54

All: 22.909 $\pm$ 0.036 χ^2 /NDF: 25298.9/102

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.009 χ^2 /NDF: 938.8/24

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.157 $\pm$ 0.008 χ^2 /NDF: 3647.8/29

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

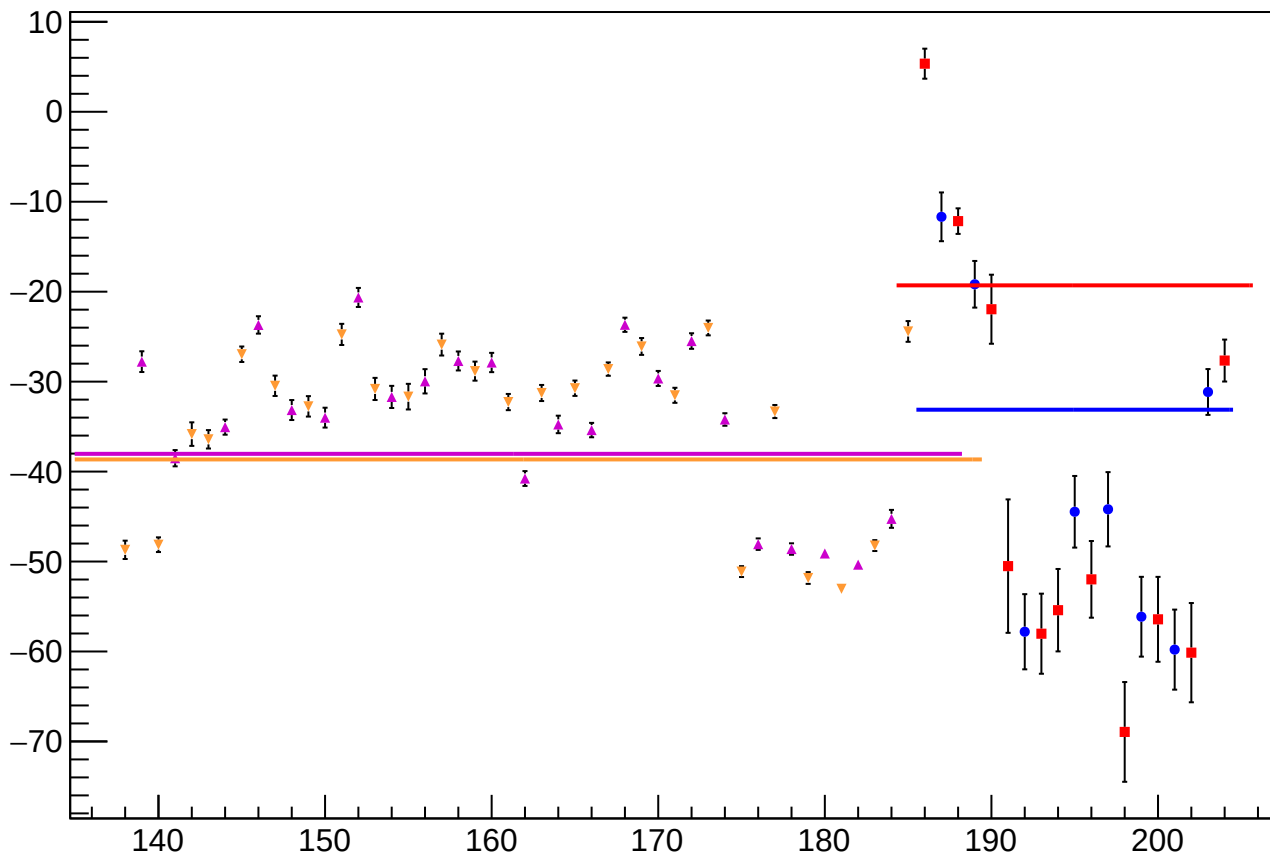
Right: 0.182 $\pm$ 0.006 χ^2 /NDF: 4604.8/54

In: -0.083 $\pm$ 0.002 χ^2 /NDF: 2494.1/47

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4903.3/54

All: -0.088 $\pm$ 0.002 χ^2 /NDF: 7405.8/102

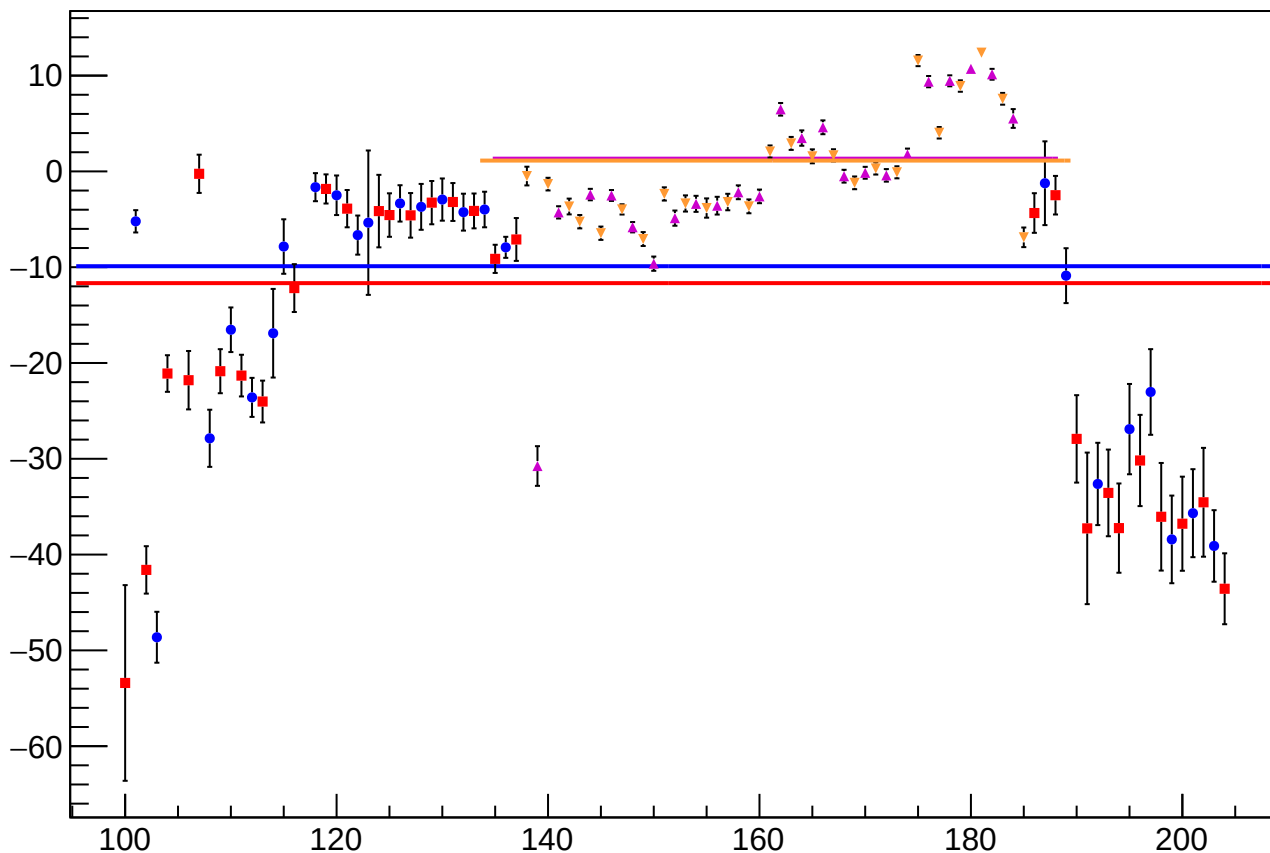
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.122 ± 1.179 χ^2/NDF : 205.1/7
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -19.298 ± 0.849 χ^2/NDF : 667.7/10
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.017 ± 0.689 χ^2/NDF : 963.4/18
 In: -37.924 ± 0.171 χ^2/NDF : 3314.0/30
 Out: -37.911 ± 0.166 χ^2/NDF : 5244.7/35
 All: -37.917 ± 0.119 χ^2/NDF : 8558.7/66

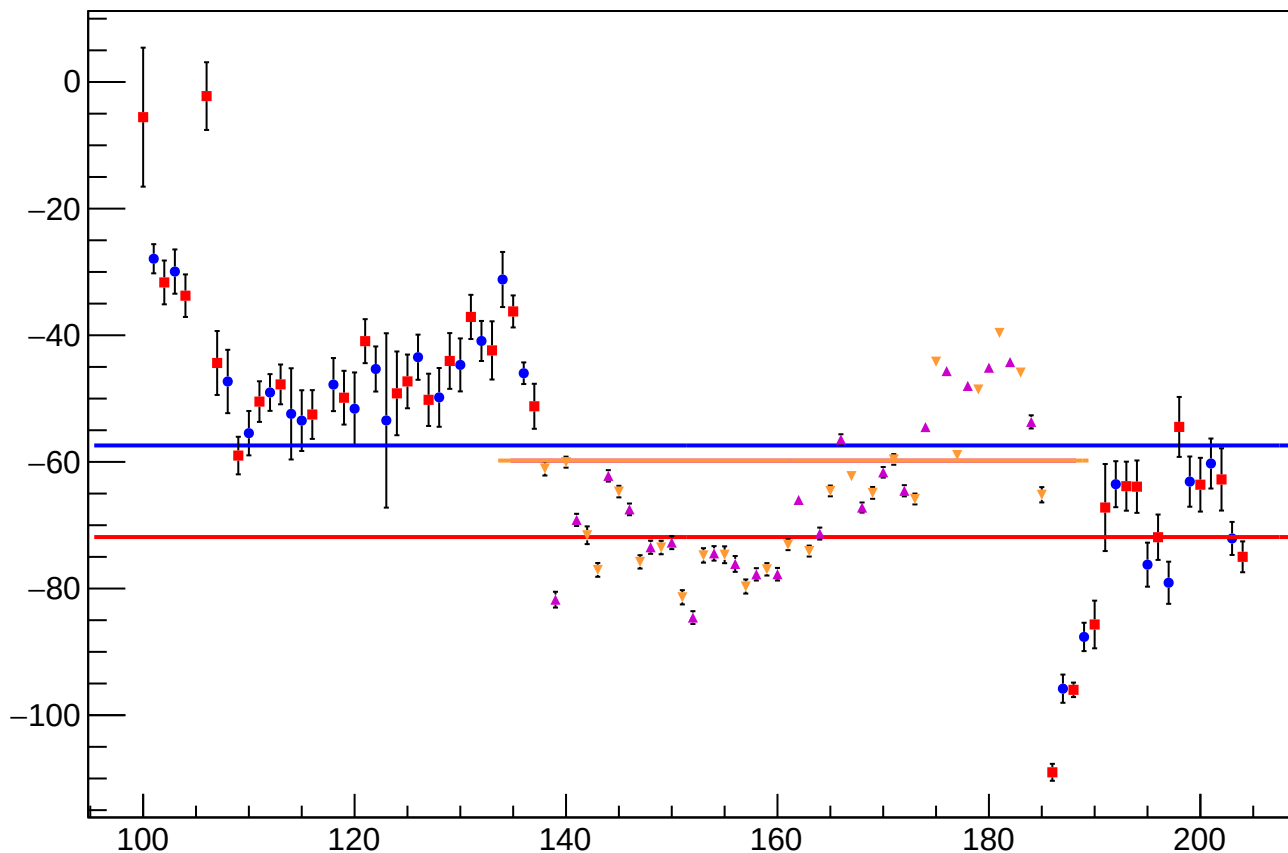
reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.897 +/- 0.444 χ^2/NDF : 604.4/24
 Left Out: 1.130 +/- 0.136 χ^2/NDF : 1799.3/24
 Right Out: -11.664 +/- 0.447 χ^2/NDF : 696.8/29
 Left In: 1.329 +/- 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 +/- 0.097 χ^2/NDF : 3848.4/47
 Right: -10.773 +/- 0.315 χ^2/NDF : 1309.1/54
 In: 0.314 +/- 0.133 χ^2/NDF : 3235.2/47
 Out: 0.048 +/- 0.130 χ^2/NDF : 3244.9/54
 All: 0.178 +/- 0.093 χ^2/NDF : 6482.2/102

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.403 ± 0.653 $\chi^2/\text{NDF}: 981.4/24$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -71.869 ± 0.555 $\chi^2/\text{NDF}: 2497.3/29$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

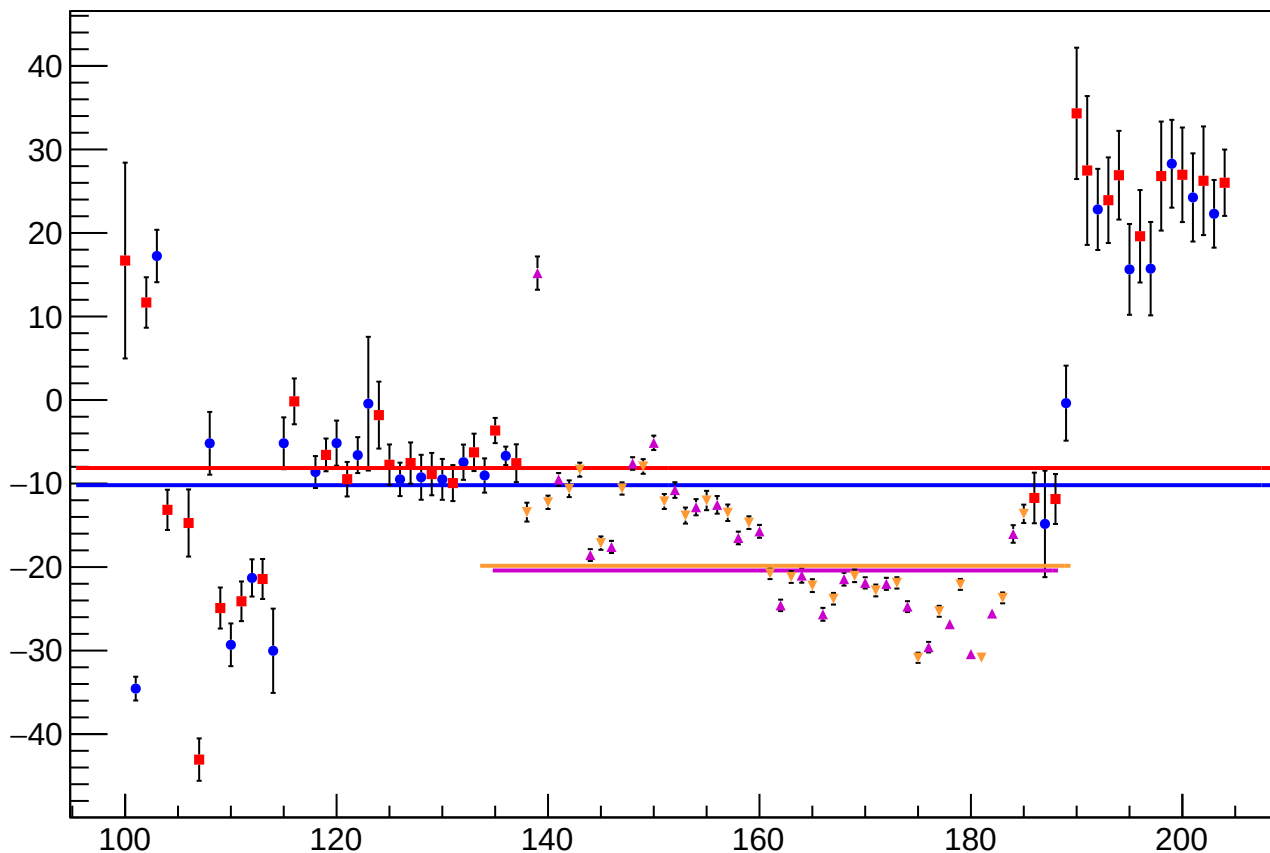
Right: -65.804 ± 0.423 $\chi^2/\text{NDF}: 3763.8/54$

In: -59.644 ± 0.167 $\chi^2/\text{NDF}: 6211.5/47$

Out: -60.828 ± 0.163 $\chi^2/\text{NDF}: 8768.6/54$

All: -60.253 ± 0.117 $\chi^2/\text{NDF}: 15005.8/102$

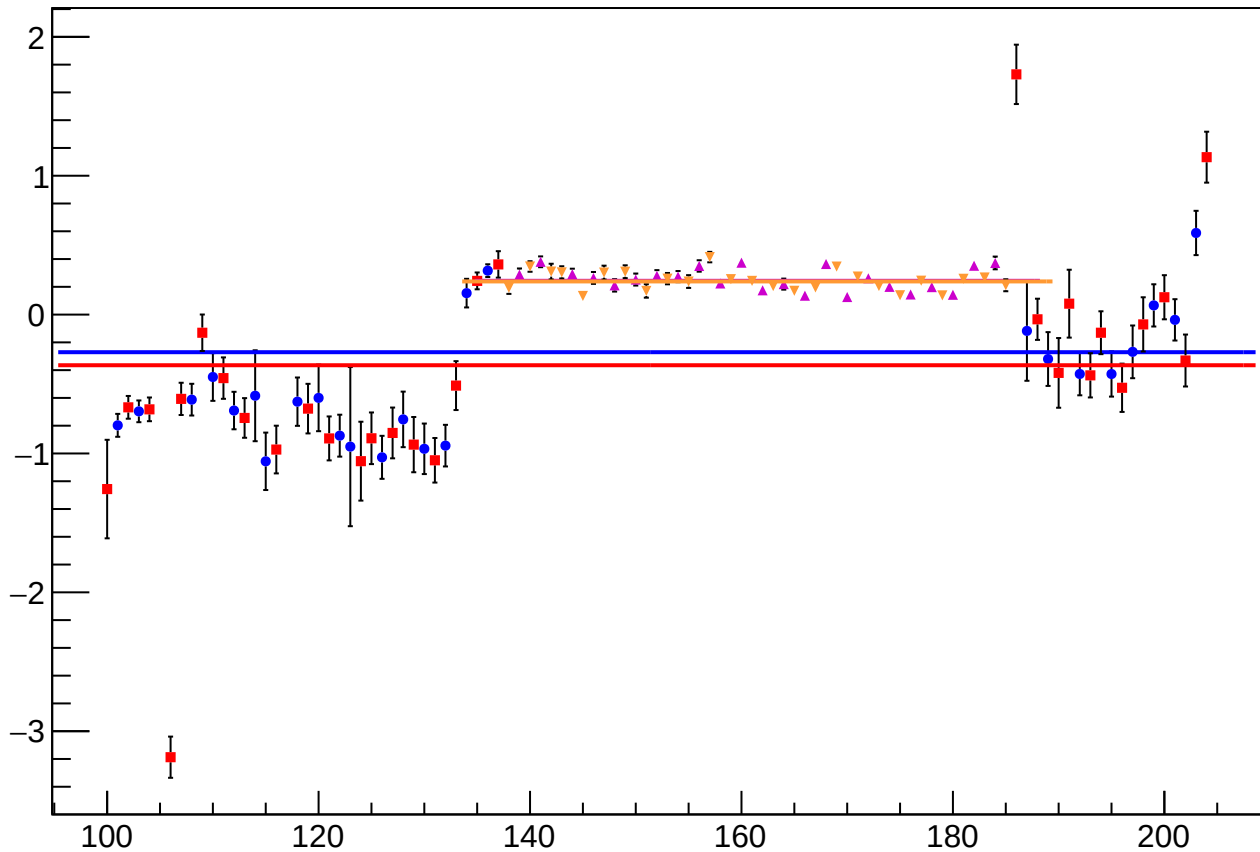
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.196 ± 0.503 $\chi^2/\text{NDF}: 747.3/24$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -8.142 ± 0.517 $\chi^2/\text{NDF}: 713.6/29$
 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: -9.197 ± 0.360 $\chi^2/\text{NDF}: 1469.0/54$
 In: -19.505 ± 0.150 $\chi^2/\text{NDF}: 3425.9/47$
 Out: -18.906 ± 0.146 $\chi^2/\text{NDF}: 3117.1/54$
 All: -19.199 ± 0.105 $\chi^2/\text{NDF}: 6551.2/102$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.271 ± 0.025 χ^2/NDF : 411.9/24

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.365 ± 0.025 χ^2/NDF : 830.4/29

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

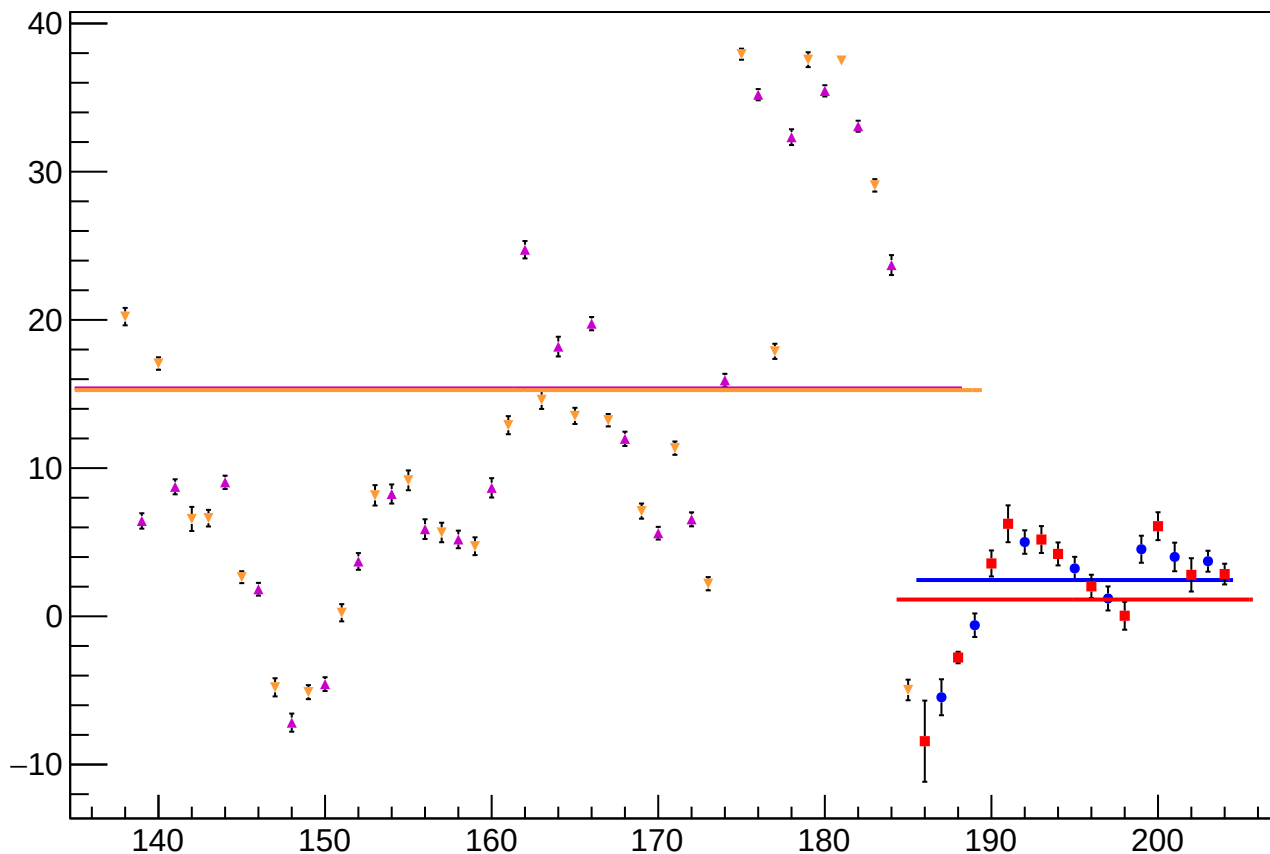
Right: -0.317 ± 0.018 χ^2/NDF : 1249.2/54

In: 0.205 ± 0.007 χ^2/NDF : 937.1/47

Out: 0.196 ± 0.007 χ^2/NDF : 1450.8/54

All: 0.200 ± 0.005 χ^2/NDF : 2388.8/102

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.448 $\pm$ 0.298 χ^2 /NDF: 82.0/7

Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24

Right Out: 1.133 $\pm$ 0.234 χ^2 /NDF: 212.2/10

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

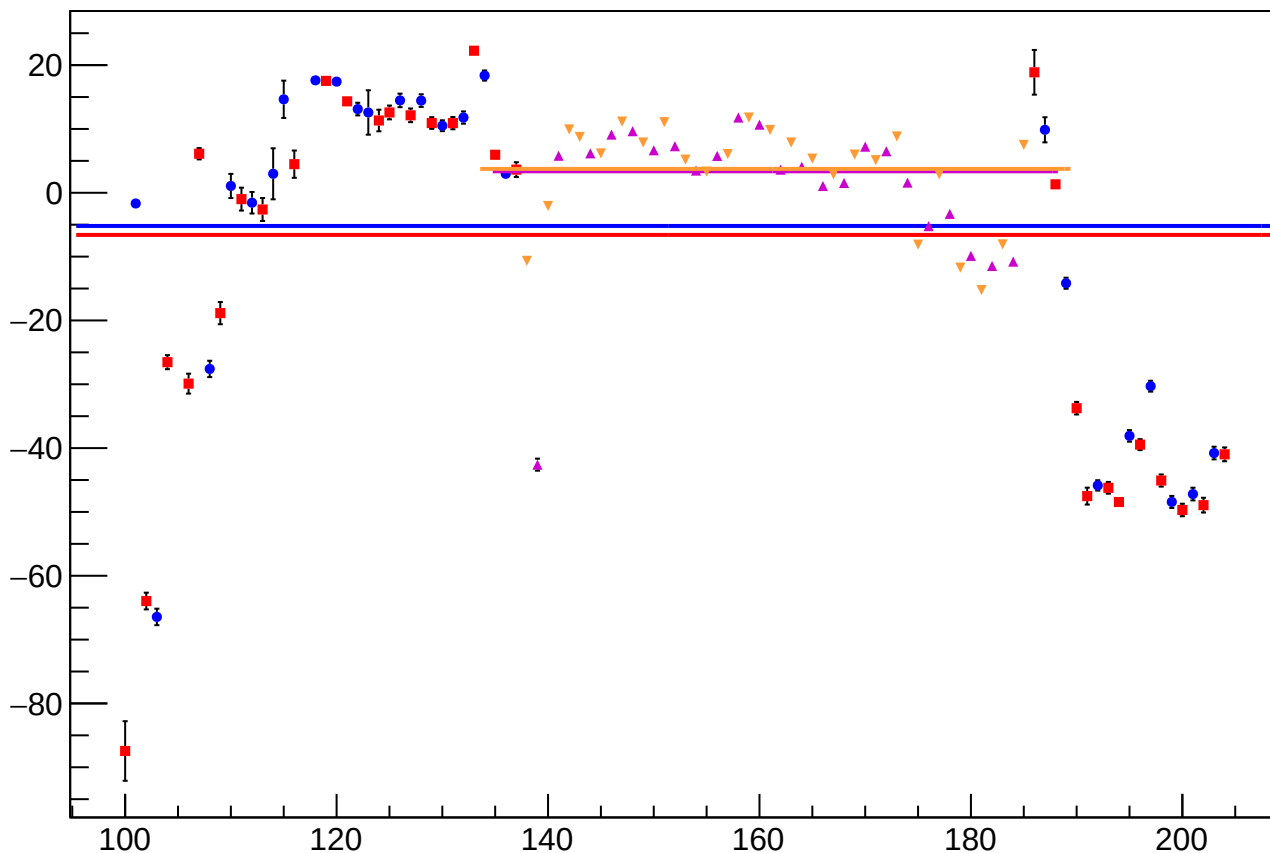
Right: 1.635 $\pm$ 0.184 χ^2 /NDF: 306.3/18

In: 13.999 $\pm$ 0.097 χ^2 /NDF:18038.0/30

Out: 13.061 $\pm$ 0.092 χ^2 /NDF:22468.7/35

All: 13.506 $\pm$ 0.067 χ^2 /NDF: 40555.7/66

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.195 ± 0.183 $\chi^2/\text{NDF}: 18831.2/24$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -6.601 ± 0.170 $\chi^2/\text{NDF}: 25731.2/29$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

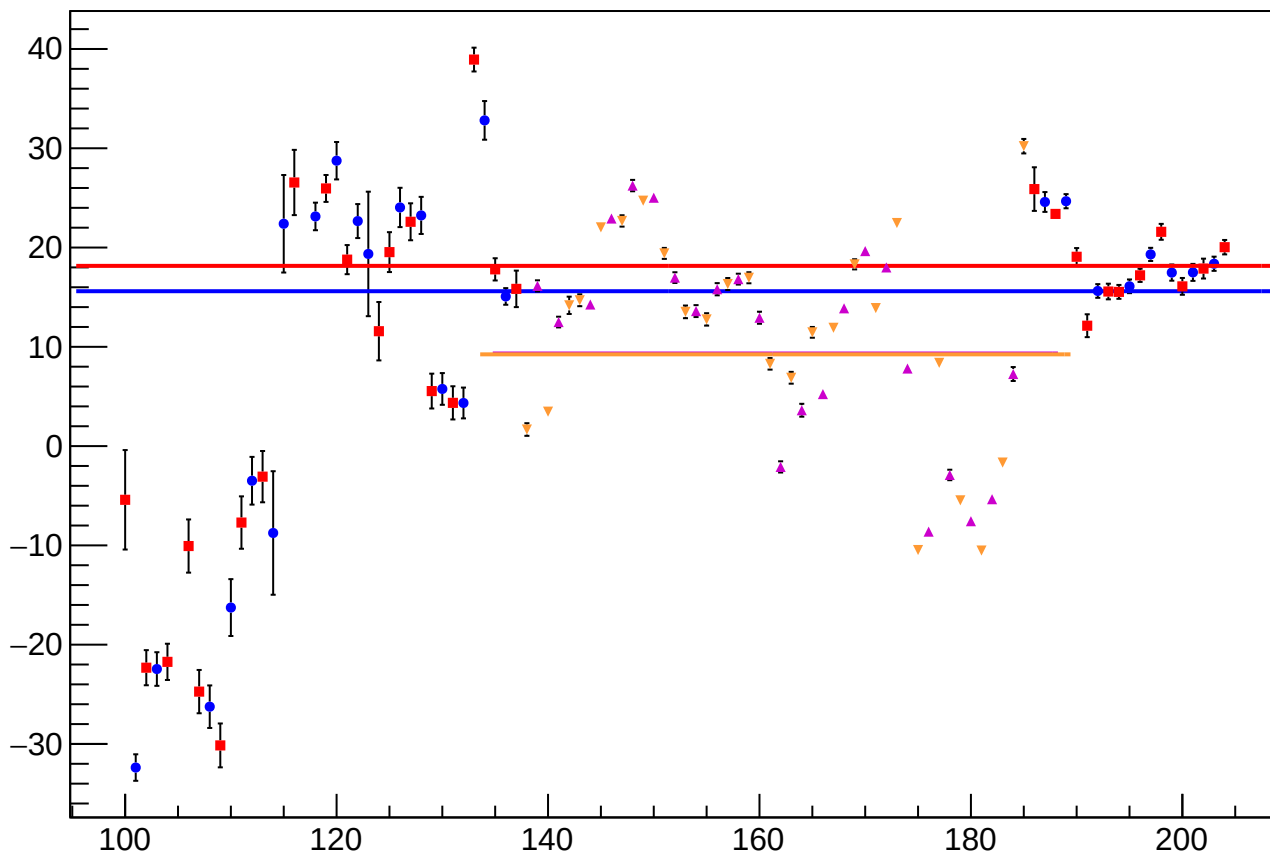
Right: -5.950 ± 0.125 $\chi^2/\text{NDF}: 44594.1/54$

In: 1.957 ± 0.074 $\chi^2/\text{NDF}: 29184.5/47$

Out: 1.920 ± 0.071 $\chi^2/\text{NDF}: 38025.6/54$

All: 1.938 ± 0.051 $\chi^2/\text{NDF}: 67210.2/102$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.602 $\pm$ 0.022 χ^2 /NDF: 2981.7/24

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.155 $\pm$ 0.183 χ^2 /NDF: 3009.2/29

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

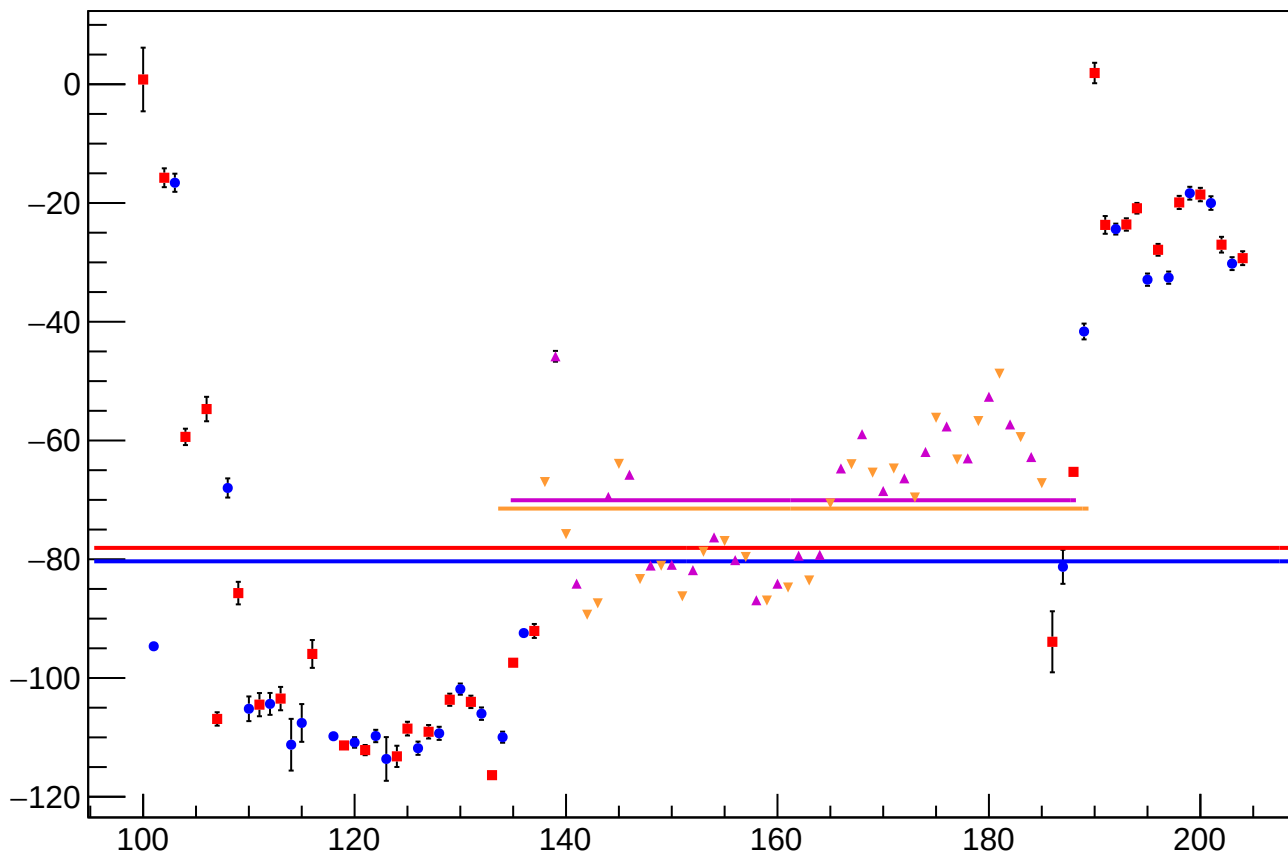
Right: 17.131 $\pm$ 0.142 χ^2 /NDF: 6068.8/54

In: 10.417 $\pm$ 0.093 χ^2 /NDF:15599.5/47

Out: 11.317 $\pm$ 0.088 χ^2 /NDF:18458.9/54

All: 10.891 $\pm$ 0.064 χ^2 /NDF: 34107.6/102

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -80.348 ± 0.213 $\chi^2/\text{NDF}: 27860.1/24$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -78.086 ± 0.201 $\chi^2/\text{NDF}: 37657.5/29$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

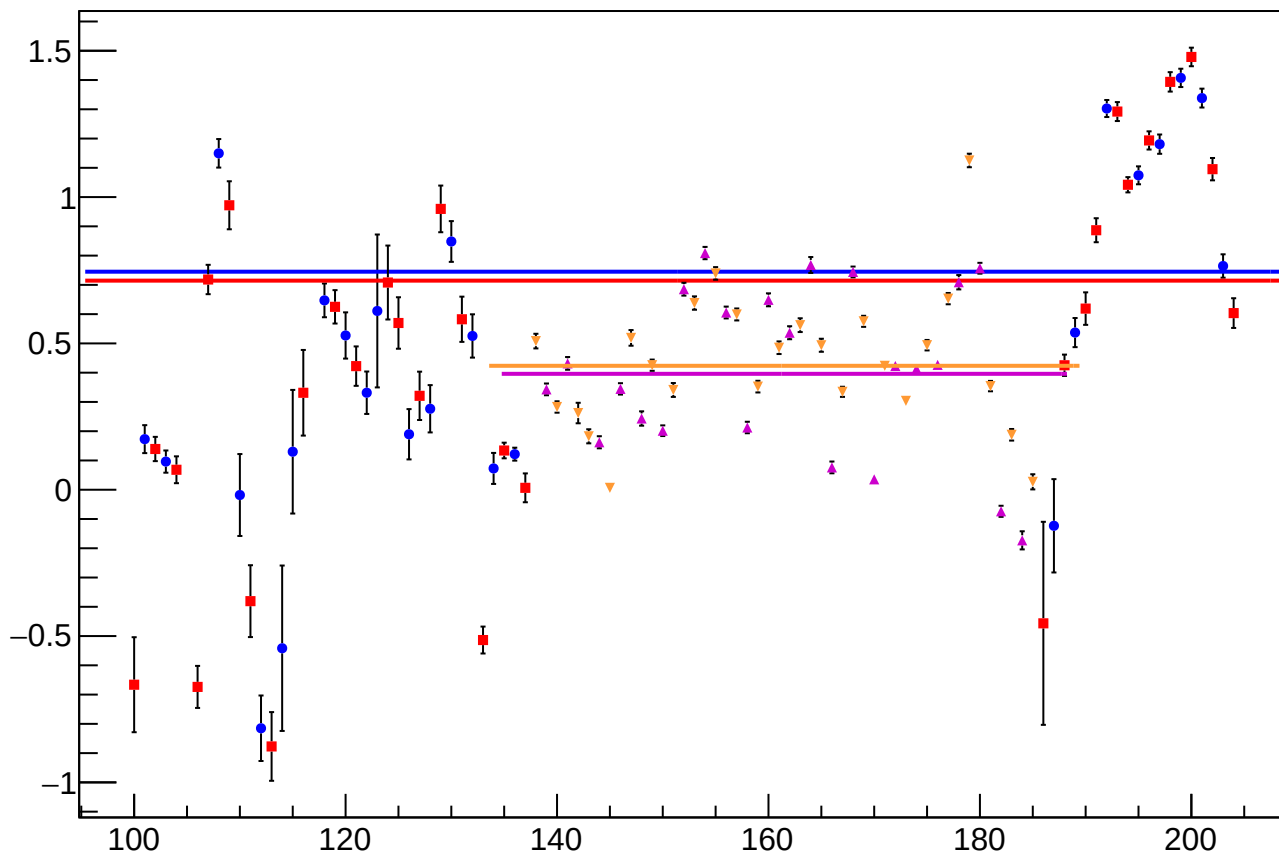
Right: -79.152 ± 0.146 $\chi^2/\text{NDF}: 65577.4/54$

In: -71.673 ± 0.084 $\chi^2/\text{NDF}: 42889.3/47$

Out: -72.558 ± 0.082 $\chi^2/\text{NDF}: 54974.7/54$

All: -72.129 ± 0.059 $\chi^2/\text{NDF}: 97921.0/102$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.745 $\pm$ 0.009 χ^2 /NDF: 3335.3/24

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.715 $\pm$ 0.009 χ^2 /NDF: 4478.6/29

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

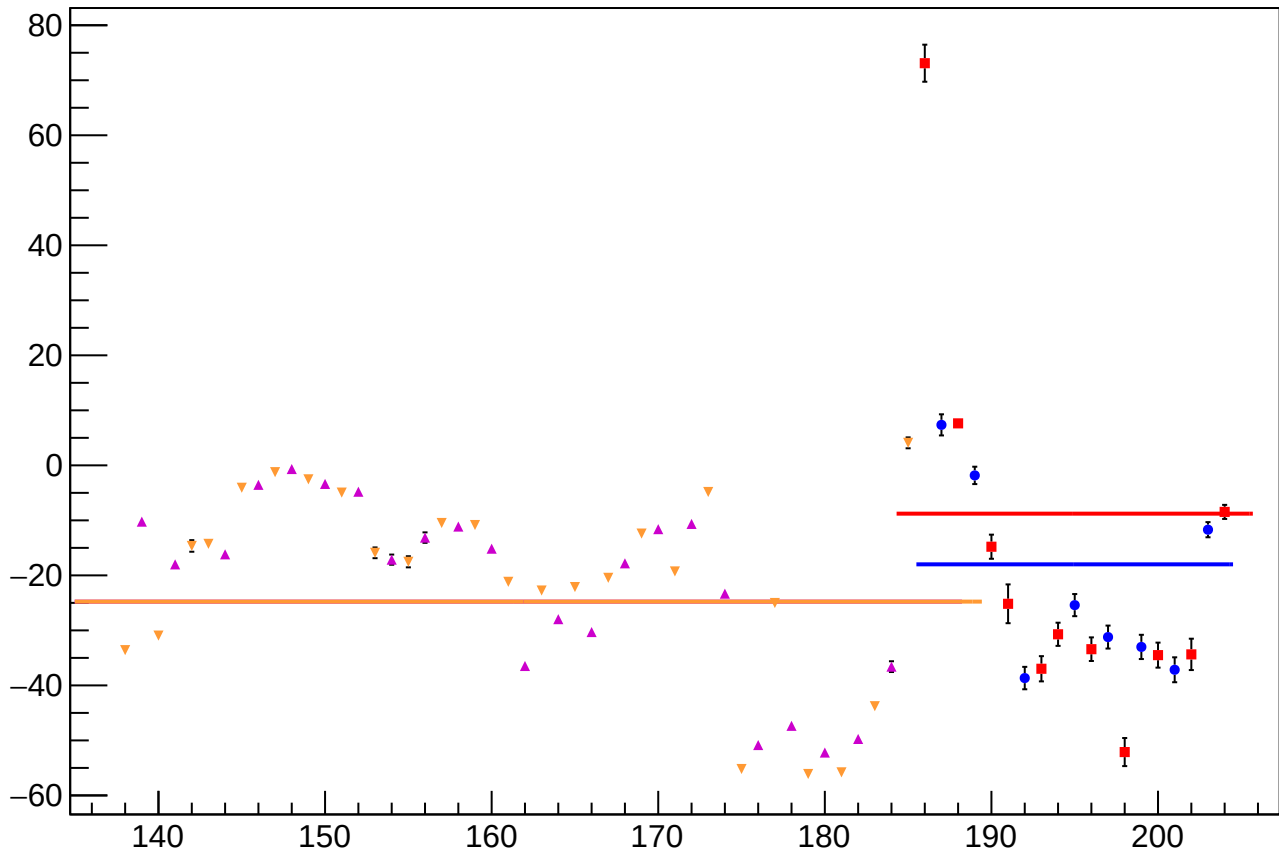
Right: 0.729 $\pm$ 0.006 χ^2 /NDF: 7819.8/54

In: 0.455 $\pm$ 0.004 χ^2 /NDF:8569.8/47

Out: 0.478 $\pm$ 0.004 χ^2 /NDF:8301.8/54

All: 0.467 $\pm$ 0.003 χ^2 /NDF: 16889.9/102

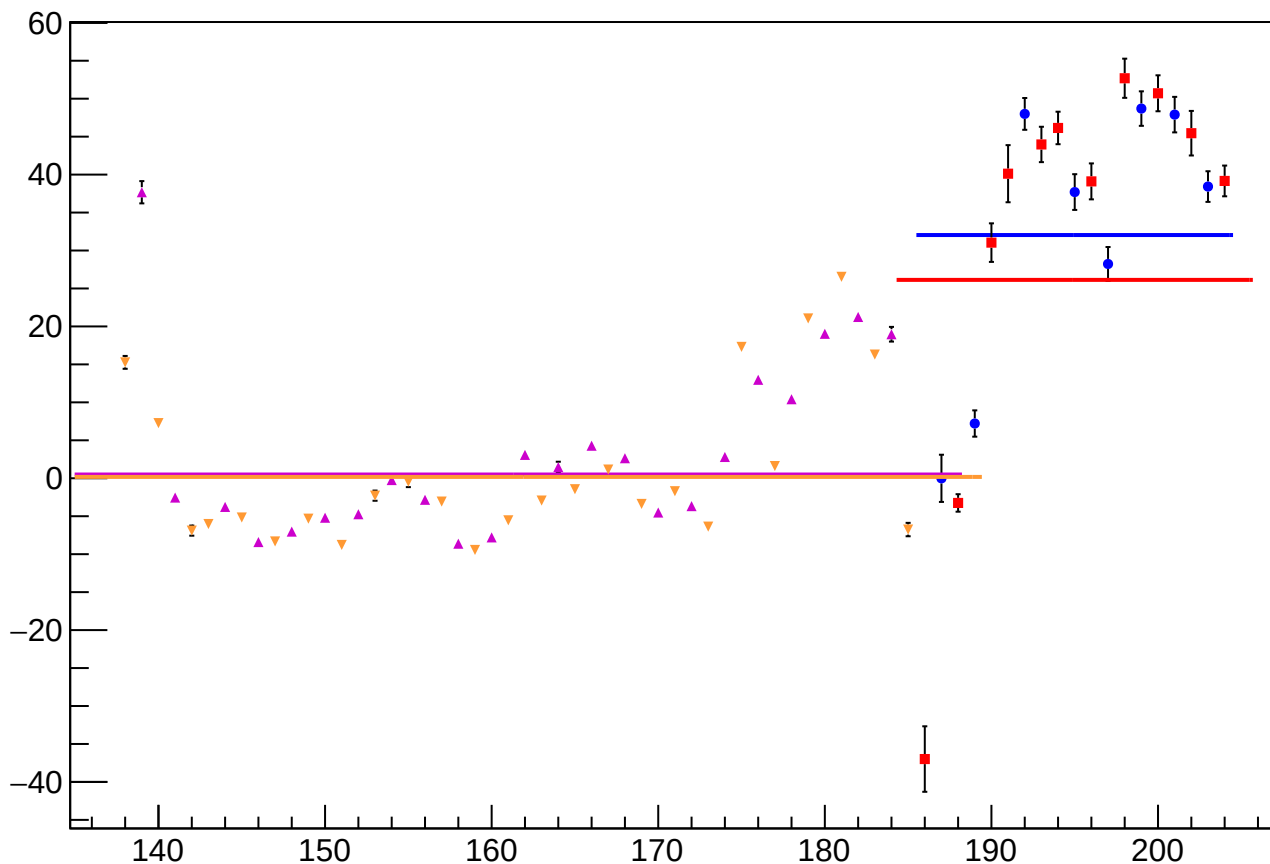
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.994 ± 0.657 $\chi^2/\text{NDF}: 574.6/7$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -8.781 ± 0.523 $\chi^2/\text{NDF}: 1928.7/10$
 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: -12.358 ± 0.409 $\chi^2/\text{NDF}: 2623.6/18$
 In: -24.469 ± 0.140 $\chi^2/\text{NDF}: 15483.7/30$
 Out: -23.710 ± 0.135 $\chi^2/\text{NDF}: 21118.9/35$
 All: -24.076 ± 0.097 $\chi^2/\text{NDF}: 36617.9/66$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.039+/-0.774 χ^2/NDF : 488.0/7

Left Out: 0.177+/-0.109 χ^2/NDF : 8295.6/24

Right Out: 26.132+/-0.659 χ^2/NDF : 1356.0/10

Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47

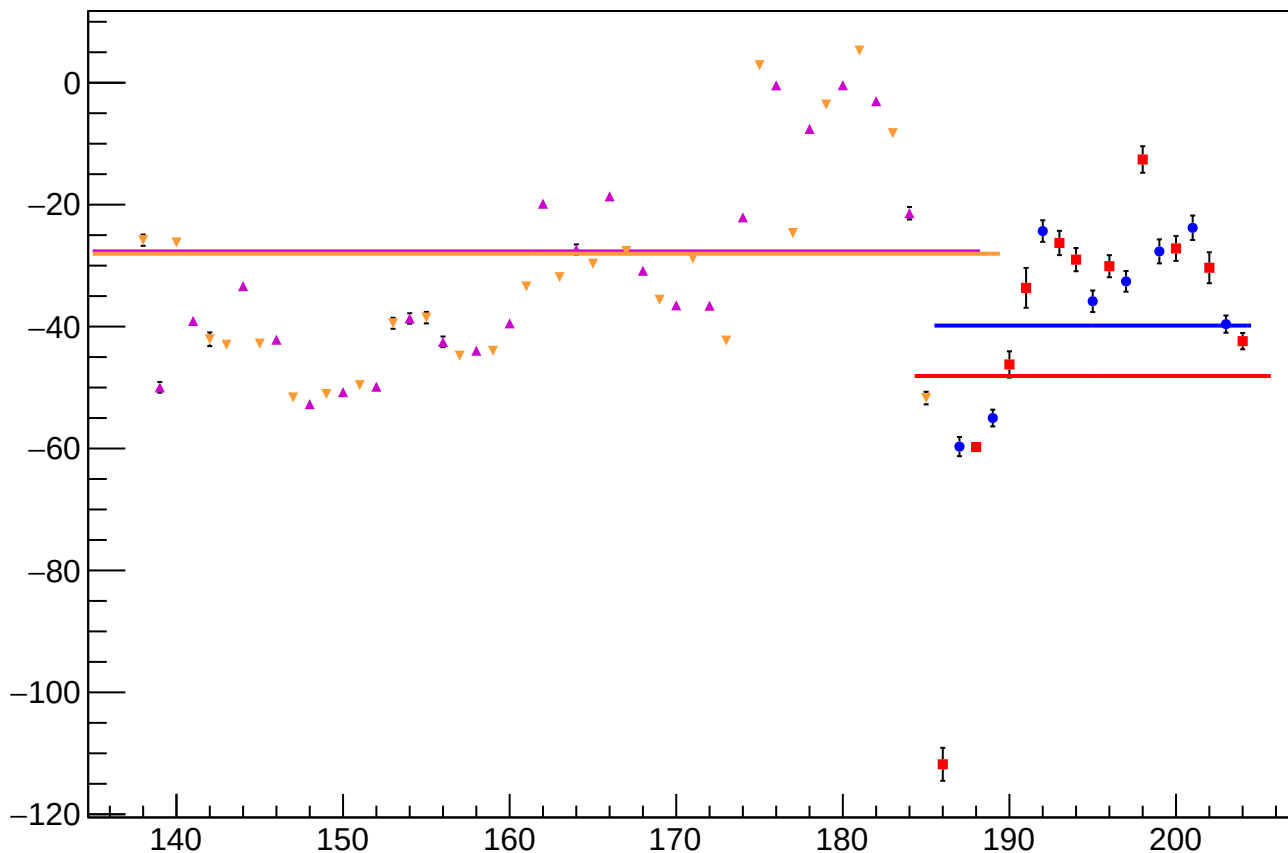
Right: 28.614+/-0.502 χ^2/NDF : 1877.8/18

In: 1.141+/-0.111 χ^2/NDF : 8668.8/30

Out: 0.862+/-0.107 χ^2/NDF : 11160.9/35

All: 0.997+/-0.077 χ^2/NDF : 19832.9/66

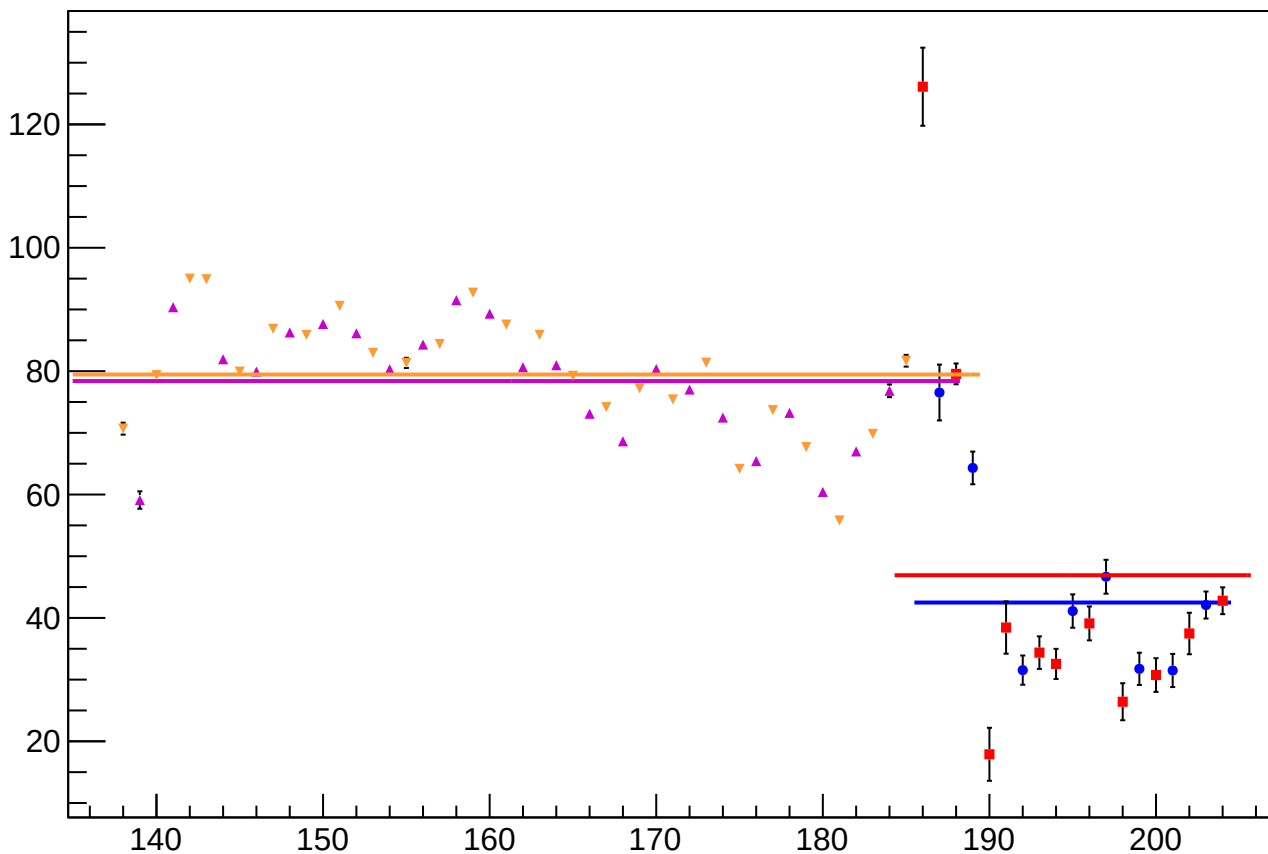
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.836 ± 0.585 $\chi^2/\text{NDF}: 481.4/7$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -48.104 ± 0.455 $\chi^2/\text{NDF}: 1657.4/10$
 Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$
 Right: -44.986 ± 0.359 $\chi^2/\text{NDF}: 2263.3/18$
 In: -28.348 ± 0.138 $\chi^2/\text{NDF}: 15893.2/30$
 Out: -29.781 ± 0.134 $\chi^2/\text{NDF}: 20576.1/35$
 All: -29.089 ± 0.096 $\chi^2/\text{NDF}: 36524.8/66$

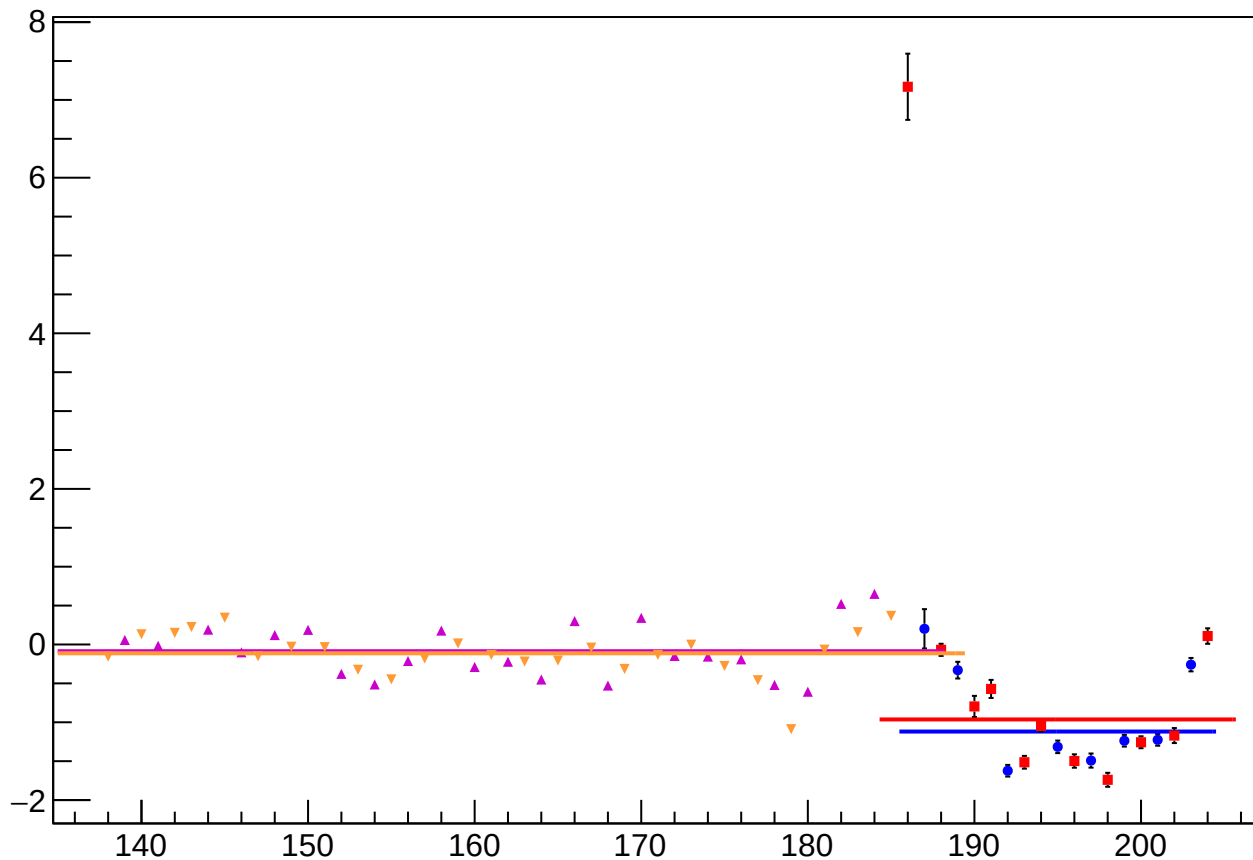
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.495+/-0.940 χ^2/NDF : 182.0/7
 Left Out: 79.456+/-0.123 χ^2/NDF : 6077.1/24
 Right Out: 46.921+/-0.823 χ^2/NDF : 739.6/10
 Left In: 78.396+/-0.127 χ^2/NDF : 4707.3/22

Left: 78.941+/-0.088 χ^2/NDF : 10820.4/47
 Right: 45.000+/-0.619 χ^2/NDF : 934.2/18
 In: 77.755+/-0.126 χ^2/NDF : 6322.4/30
 Out: 78.743+/-0.122 χ^2/NDF : 8345.0/35
 All: 78.264+/-0.087 χ^2/NDF : 14699.3/66

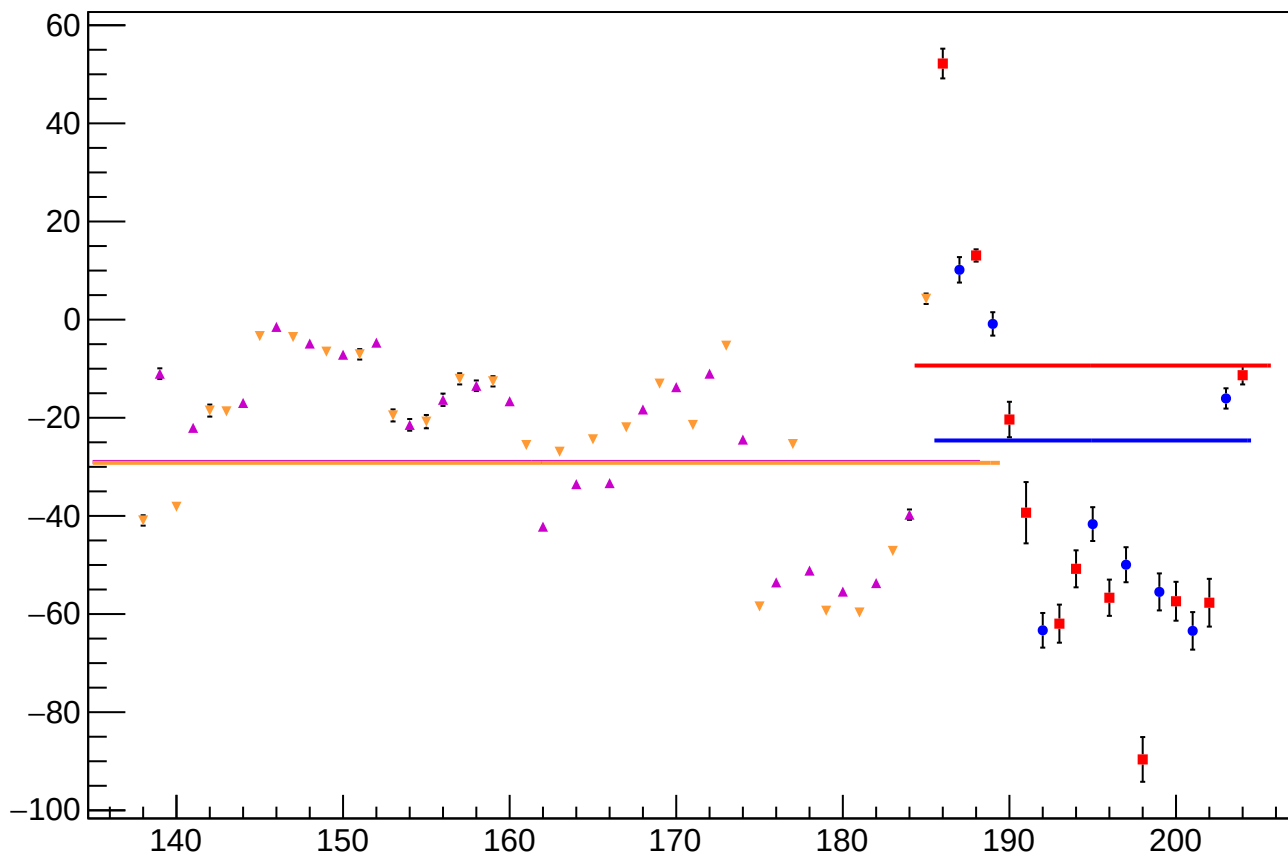
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.119 ± 0.031 χ^2/NDF : 253.0/7
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.964 ± 0.028 χ^2/NDF : 805.0/10
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -1.033 ± 0.021 χ^2/NDF : 1071.9/18
 In: -0.121 ± 0.006 χ^2/NDF : 4457.4/30
 Out: -0.147 ± 0.006 χ^2/NDF : 3999.1/35
 All: -0.134 ± 0.004 χ^2/NDF : 8467.2/66

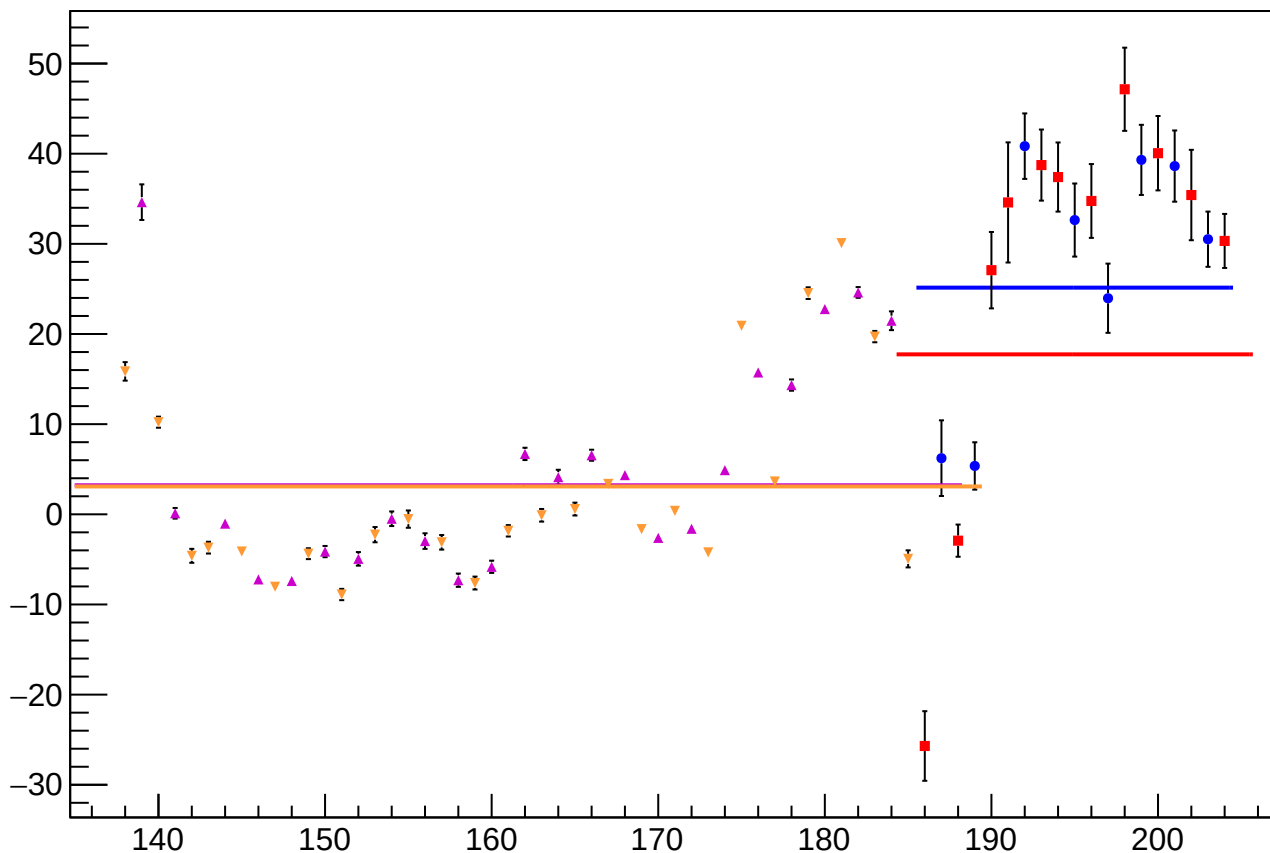
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.626 ± 1.032 $\chi^2/\text{NDF}: 660.4/7$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -9.355 ± 0.818 $\chi^2/\text{NDF}: 1791.3/10$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -15.248 ± 0.641 $\chi^2/\text{NDF}: 2586.3/18$
 In: -28.900 ± 0.158 $\chi^2/\text{NDF}: 14094.8/30$
 Out: -28.477 ± 0.154 $\chi^2/\text{NDF}: 19270.6/35$
 All: -28.683 ± 0.110 $\chi^2/\text{NDF}: 33369.0/66$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.142 $\pm$ 1.247 χ^2 /NDF: 127.2/7

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 17.742 $\pm$ 1.049 χ^2 /NDF: 443.8/10

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

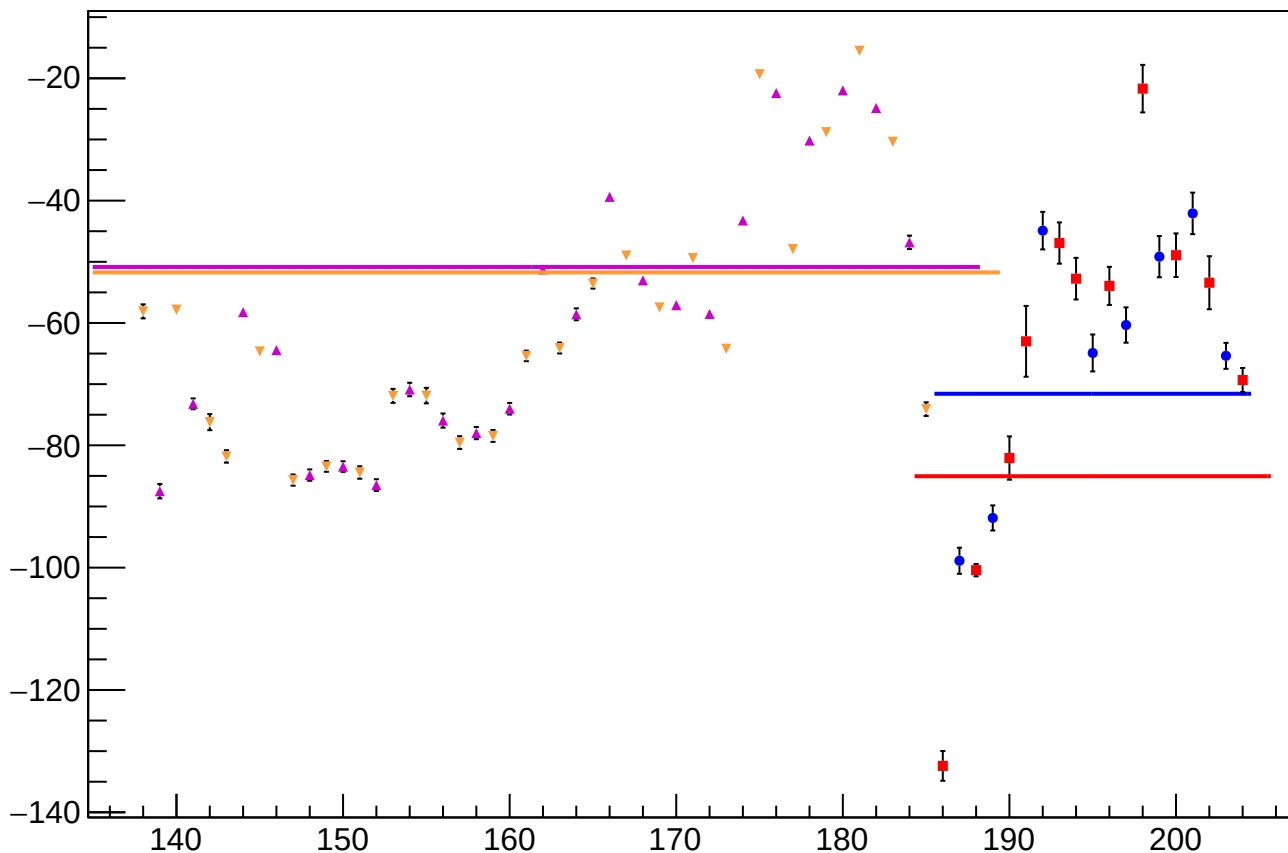
Right: 20.810 $\pm$ 0.803 χ^2 /NDF: 591.6/18

In: 3.446 $\pm$ 0.126 χ^2 /NDF: 6670.6/30

Out: 3.294 $\pm$ 0.124 χ^2 /NDF: 8720.0/35

All: 3.368 $\pm$ 0.088 χ^2 /NDF: 15391.4/66

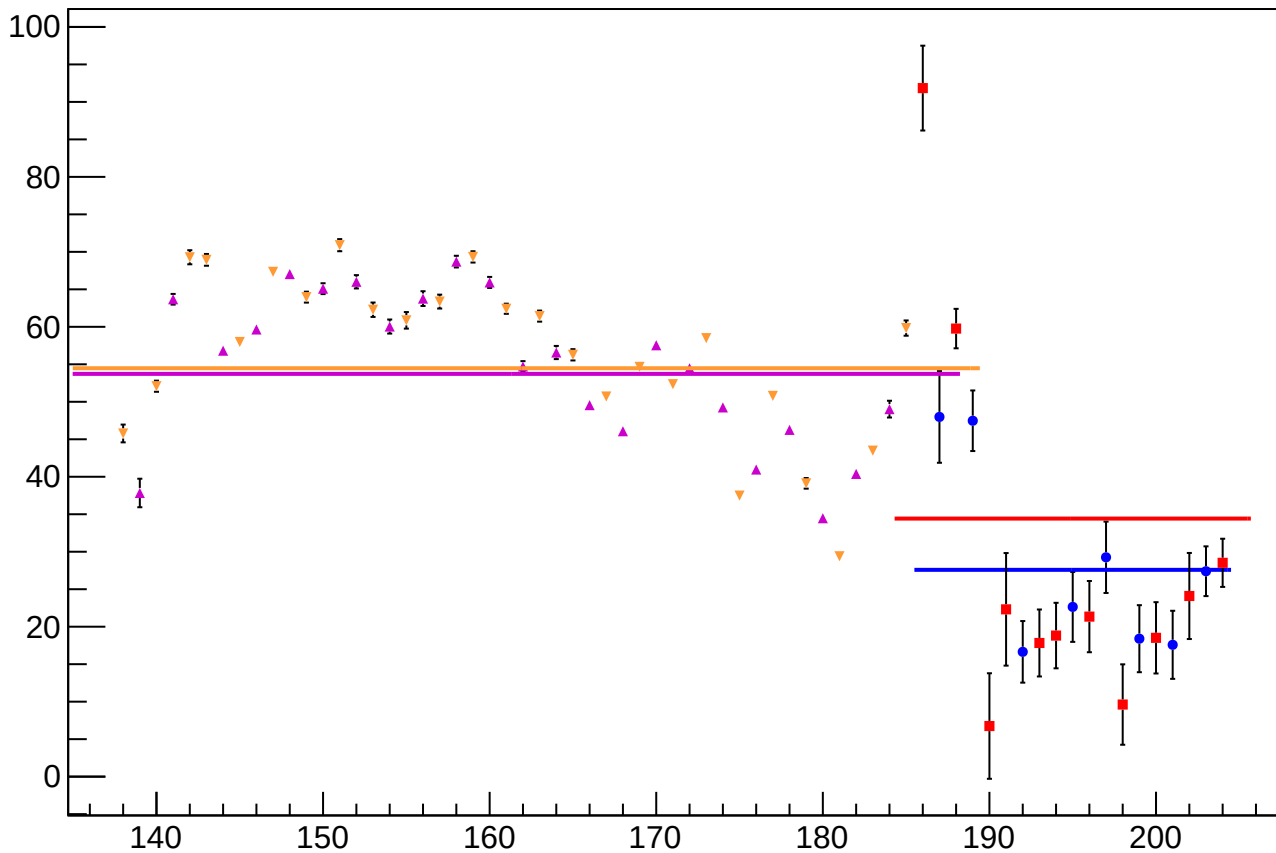
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.573 ± 0.917 χ^2/NDF : 485.1/7
 Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24
 Right Out: -85.053 ± 0.709 χ^2/NDF : 1427.6/10
 Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47
 Right: -80.012 ± 0.561 χ^2/NDF : 2047.9/18
 In: -51.457 ± 0.158 χ^2/NDF : 18252.9/30
 Out: -53.304 ± 0.154 χ^2/NDF : 23071.3/35
 All: -52.402 ± 0.110 χ^2/NDF : 41394.3/66

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 27.585 $\pm$ 1.531 χ^2 /NDF: 52.8/7

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.422 $\pm$ 1.329 χ^2 /NDF: 287.1/10

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

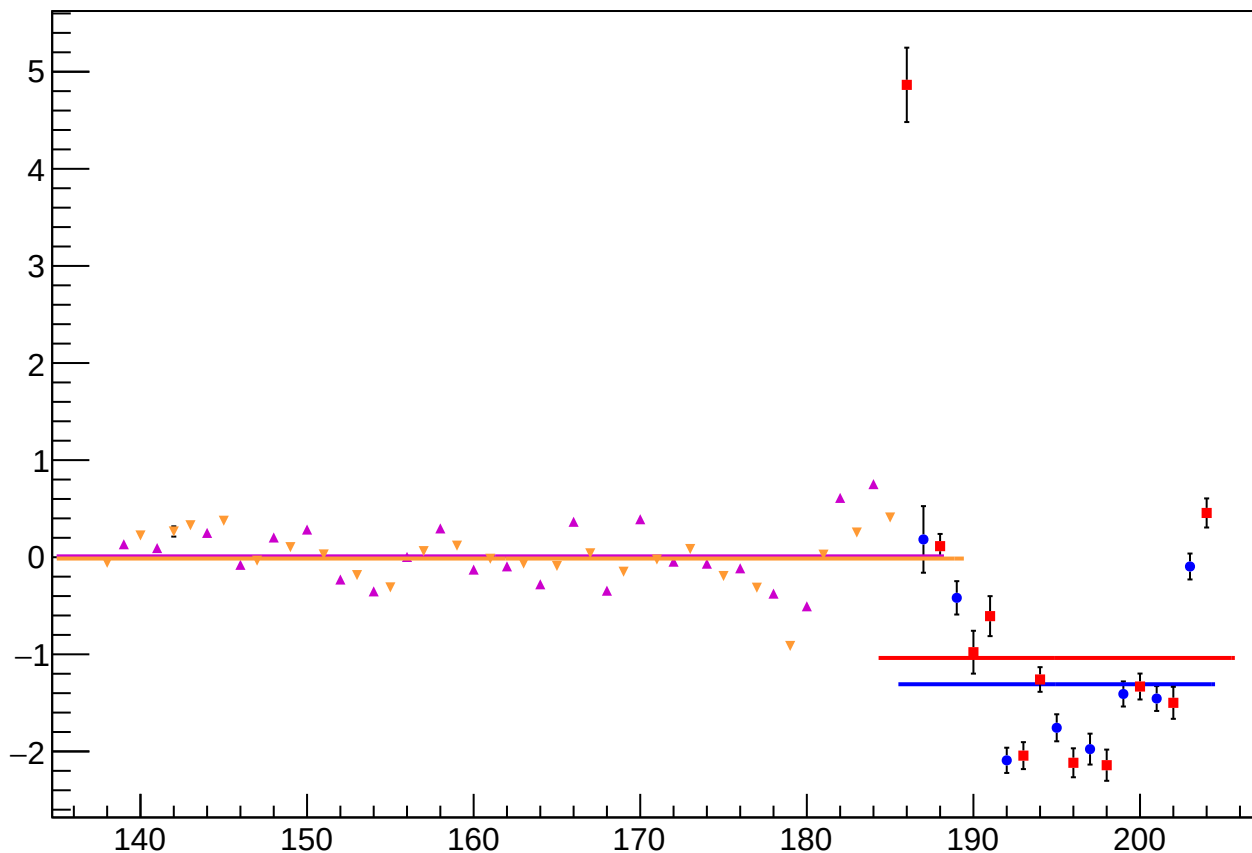
Right: 31.484 $\pm$ 1.003 χ^2 /NDF: 351.2/18

In: 53.497 $\pm$ 0.142 χ^2 /NDF: 4927.5/30

Out: 54.255 $\pm$ 0.139 χ^2 /NDF: 6779.3/35

All: 53.884 $\pm$ 0.100 χ^2 /NDF: 11721.3/66

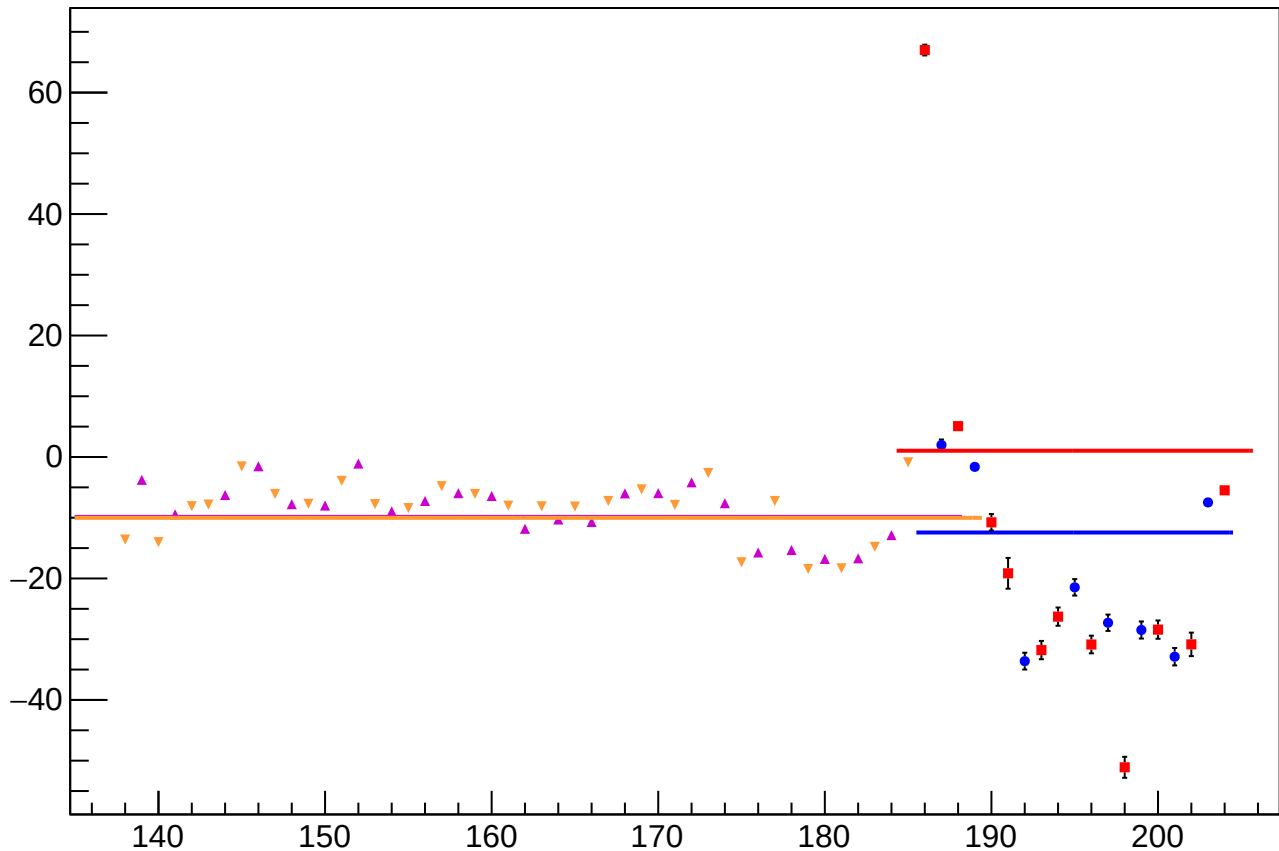
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.308+/-0.052 χ^2/NDF : 194.6/7
 Left Out: -0.014+/-0.006 χ^2/NDF :1654.7/24
 Right Out: -1.037+/-0.047 χ^2/NDF : 593.0/10
 Left In: 0.009+/-0.007 χ^2/NDF :2220.5/22

Left: -0.003+/-0.005 χ^2/NDF : 3881.4/47
 Right: -1.160+/-0.035 χ^2/NDF : 802.5/18
 In: -0.012+/-0.007 χ^2/NDF :3046.6/30
 Out: -0.032+/-0.006 χ^2/NDF :2710.1/35
 All: -0.022+/-0.005 χ^2/NDF : 5761.9/66

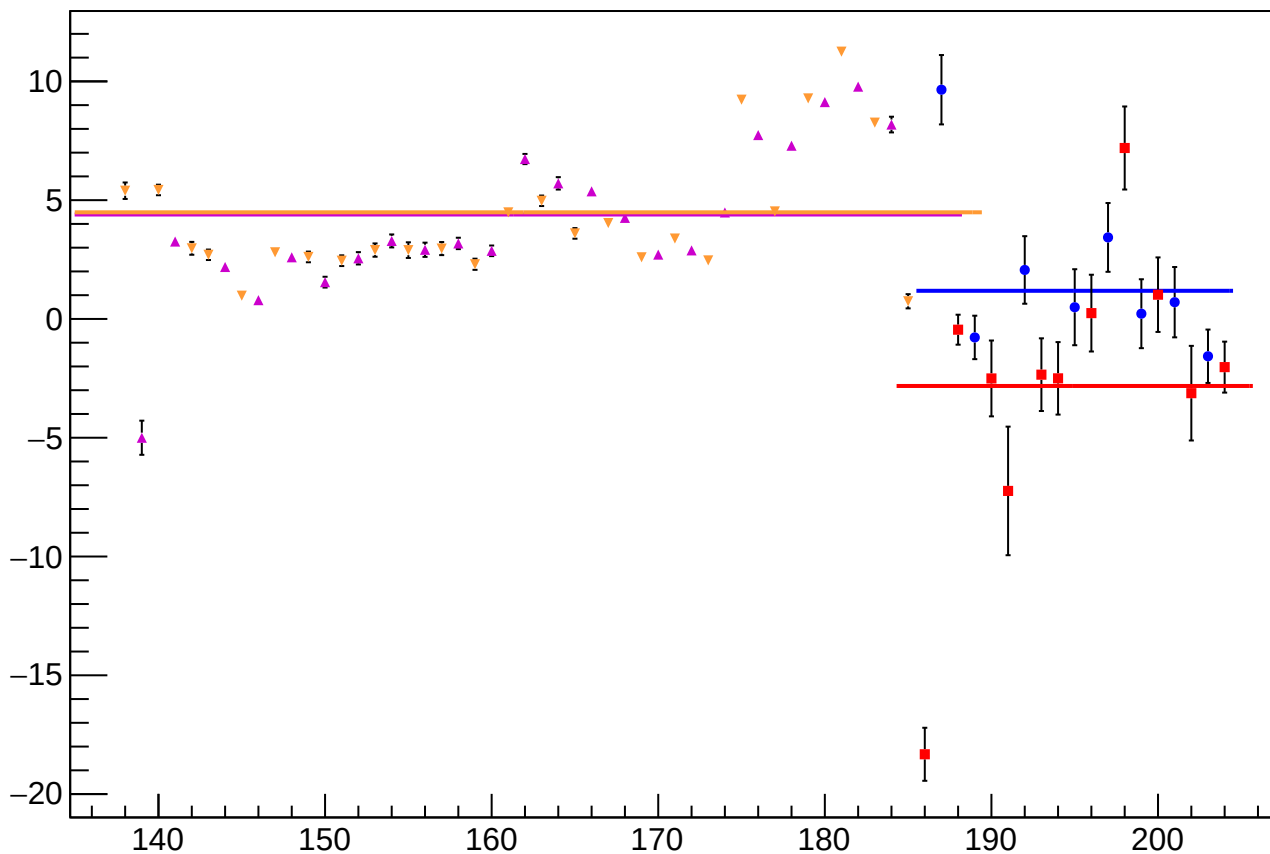
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.435 ± 0.376 $\chi^2/\text{NDF}: 1203.8/7$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: 1.031 ± 0.293 $\chi^2/\text{NDF}: 8726.9/10$
 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: -4.061 ± 0.231 $\chi^2/\text{NDF}: 10728.1/18$
 In: -9.912 ± 0.051 $\chi^2/\text{NDF}: 10595.0/30$
 Out: -9.697 ± 0.050 $\chi^2/\text{NDF}: 22657.9/35$
 All: -9.802 ± 0.036 $\chi^2/\text{NDF}: 33262.1/66$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.185 ± 0.459 $\chi^2/\text{NDF}: 47.8/7$

Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$

Right Out: -2.821 ± 0.380 $\chi^2/\text{NDF}: 252.9/10$

Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$

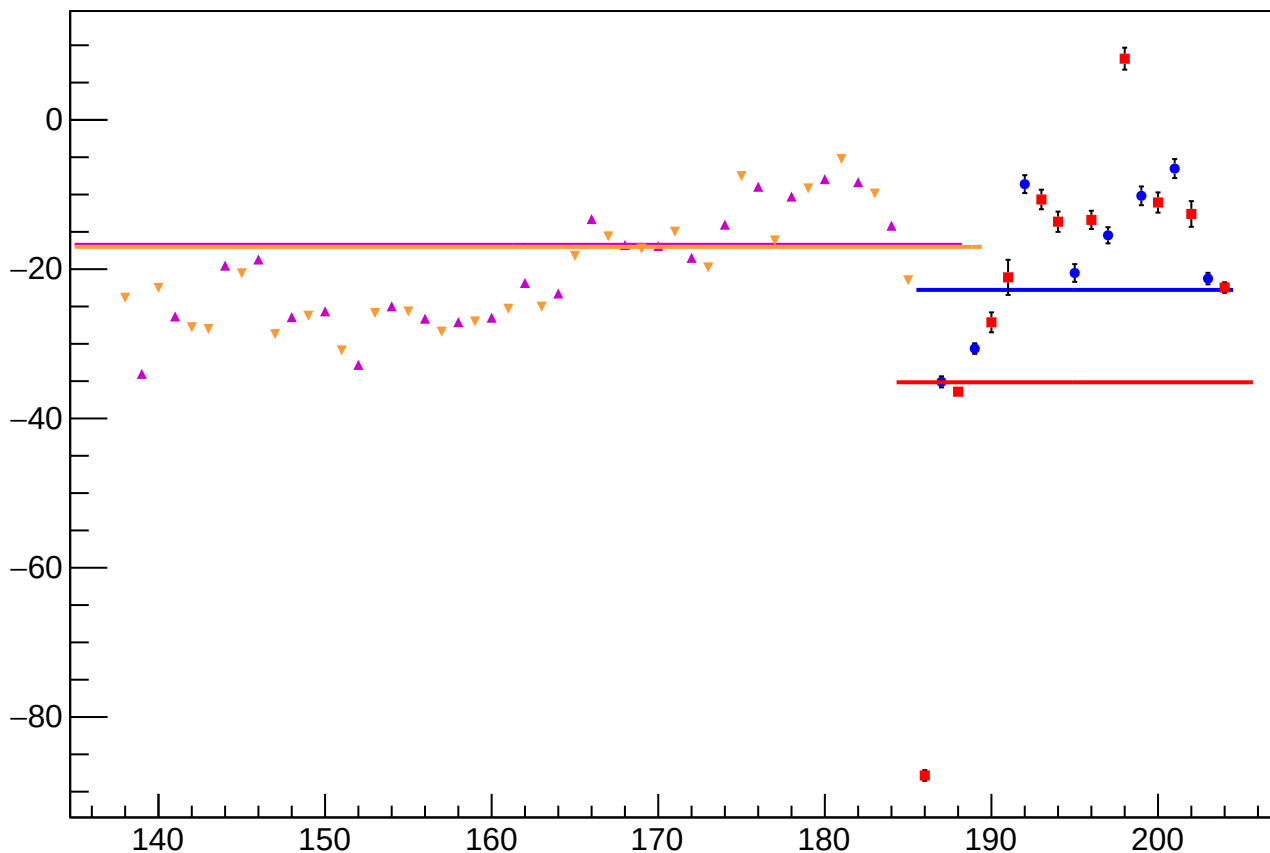
Right: -1.193 ± 0.292 $\chi^2/\text{NDF}: 345.9/18$

In: 4.370 ± 0.041 $\chi^2/\text{NDF}: 4326.7/30$

Out: 4.406 ± 0.040 $\chi^2/\text{NDF}: 5451.9/35$

All: 4.388 ± 0.029 $\chi^2/\text{NDF}: 9779.0/66$

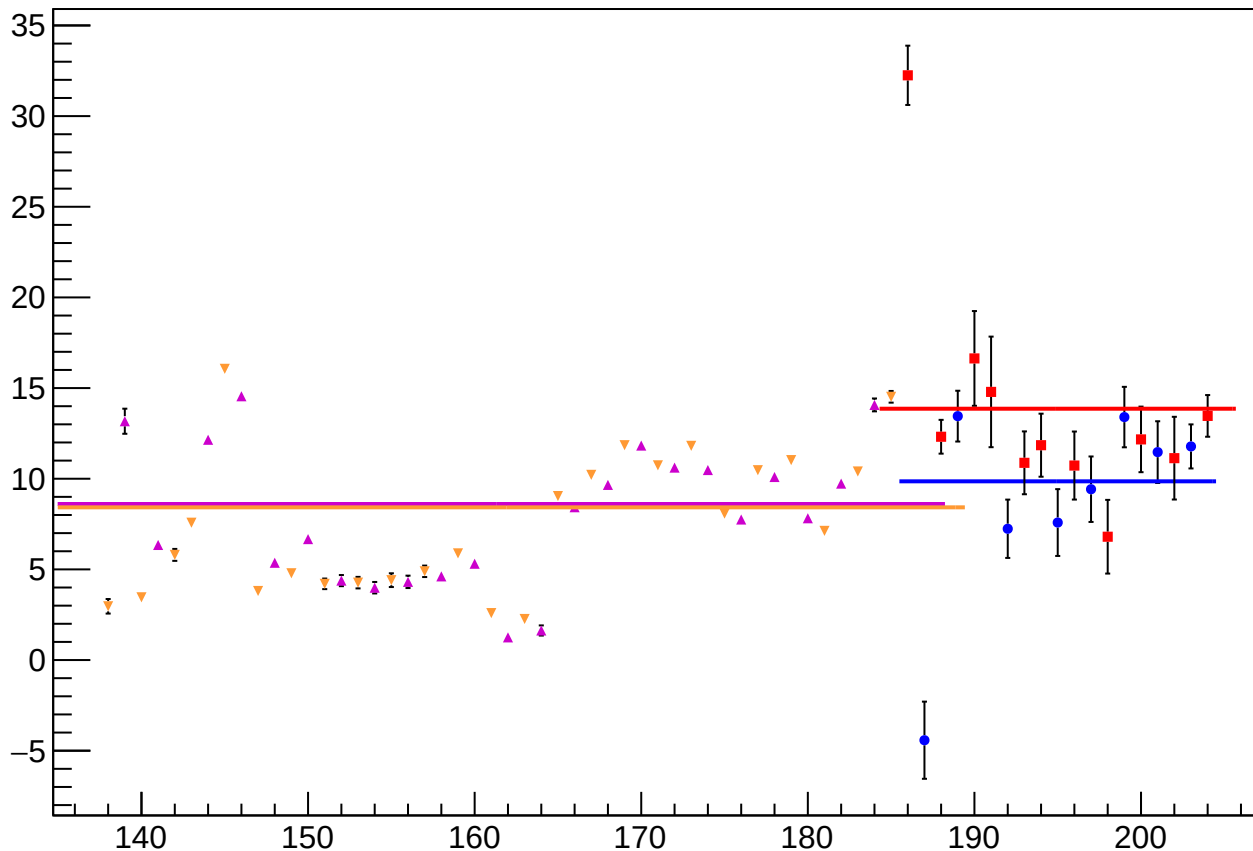
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -22.775+/-0.333 χ^2/NDF : 855.5/7
 Left Out: -17.008+/-0.051 χ^2/NDF :22094.7/24
 Right Out: -35.152+/-0.253 χ^2/NDF : 8173.6/10
 Left In: -16.732+/-0.052 χ^2/NDF :18777.2/22

Left: -16.871+/-0.036 χ^2/NDF : 40886.5/47
 Right: -30.629+/-0.202 χ^2/NDF : 9903.5/18
 In: -16.873+/-0.051 χ^2/NDF :19953.5/30
 Out: -17.718+/-0.050 χ^2/NDF :35208.6/35
 All: -17.303+/-0.036 χ^2/NDF : 55302.4/66

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.857 ± 0.568 χ^2/NDF : 63.8/7

Left Out: 8.422 ± 0.046 χ^2/NDF : 6470.1/24

Right Out: 13.861 ± 0.486 χ^2/NDF : 152.0/10

Left In: 8.606 ± 0.046 χ^2/NDF : 5504.2/22

Left: 8.513 ± 0.032 χ^2/NDF : 11982.4/47

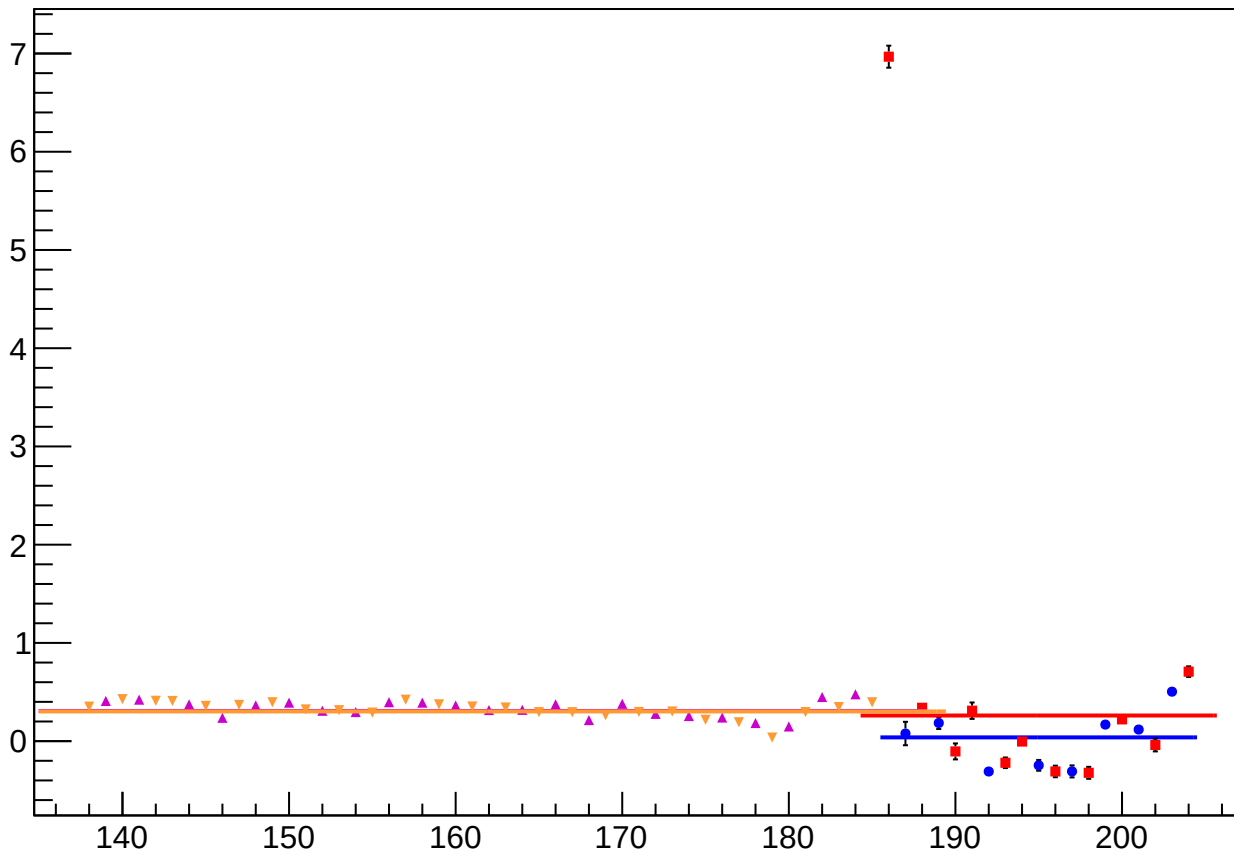
Right: 12.167 ± 0.369 χ^2/NDF : 244.4/18

In: 8.615 ± 0.046 χ^2/NDF : 5572.8/30

Out: 8.469 ± 0.045 χ^2/NDF : 6746.1/35

All: 8.541 ± 0.032 χ^2/NDF : 12323.9/66

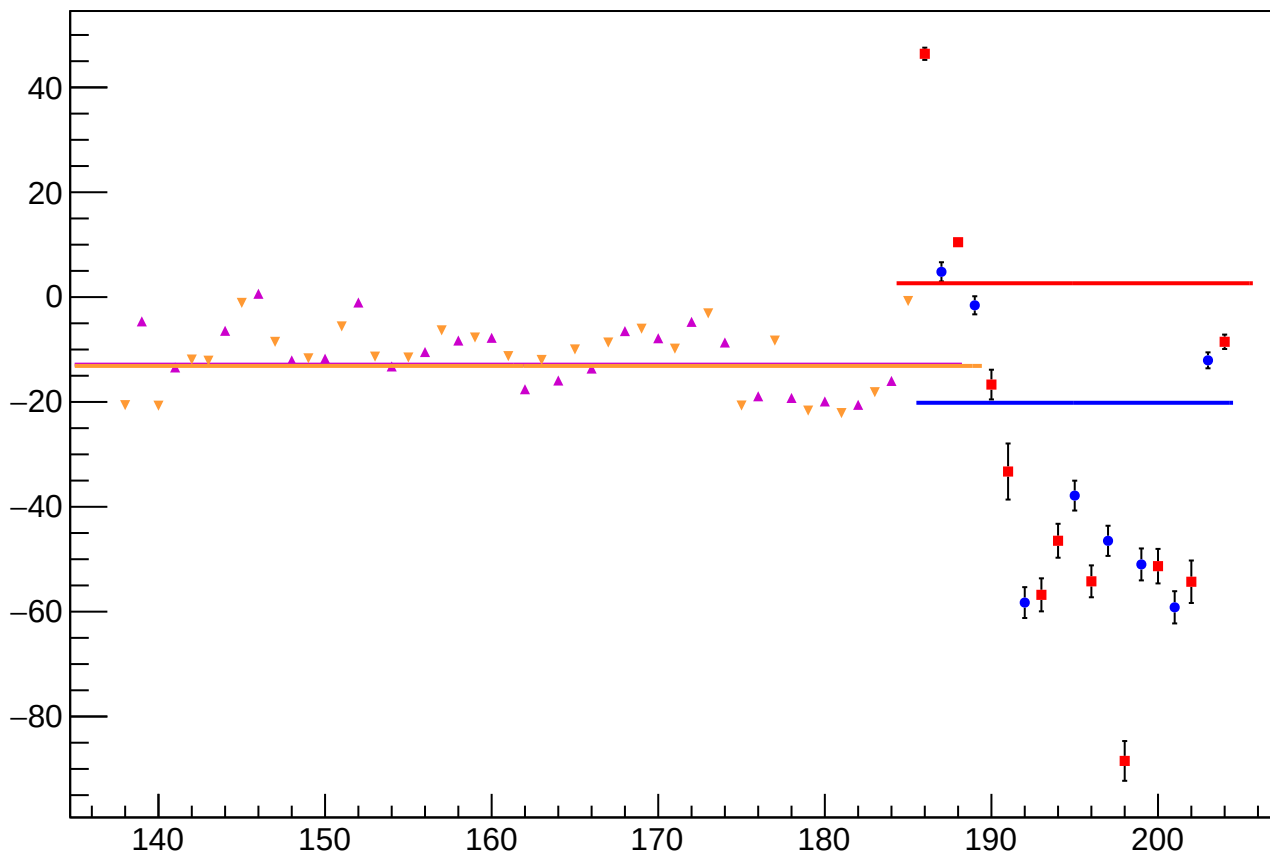
reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.038 ± 0.020 χ^2/NDF : 209.2/7
 Left Out: 0.302 ± 0.002 χ^2/NDF : 1590.9/24
 Right Out: 0.261 ± 0.018 χ^2/NDF : 3979.6/10
 Left In: 0.307 ± 0.002 χ^2/NDF : 1699.5/22

Left: 0.305 ± 0.001 χ^2/NDF : 3293.0/47
 Right: 0.160 ± 0.013 χ^2/NDF : 4259.0/18
 In: 0.304 ± 0.002 χ^2/NDF : 2094.0/30
 Out: 0.302 ± 0.002 χ^2/NDF : 5575.8/35
 All: 0.303 ± 0.001 χ^2/NDF : 7670.4/66

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.158 ± 0.781 $\chi^2/\text{NDF}: 884.4/7$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 2.641 ± 0.568 $\chi^2/\text{NDF}: 3615.0/10$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

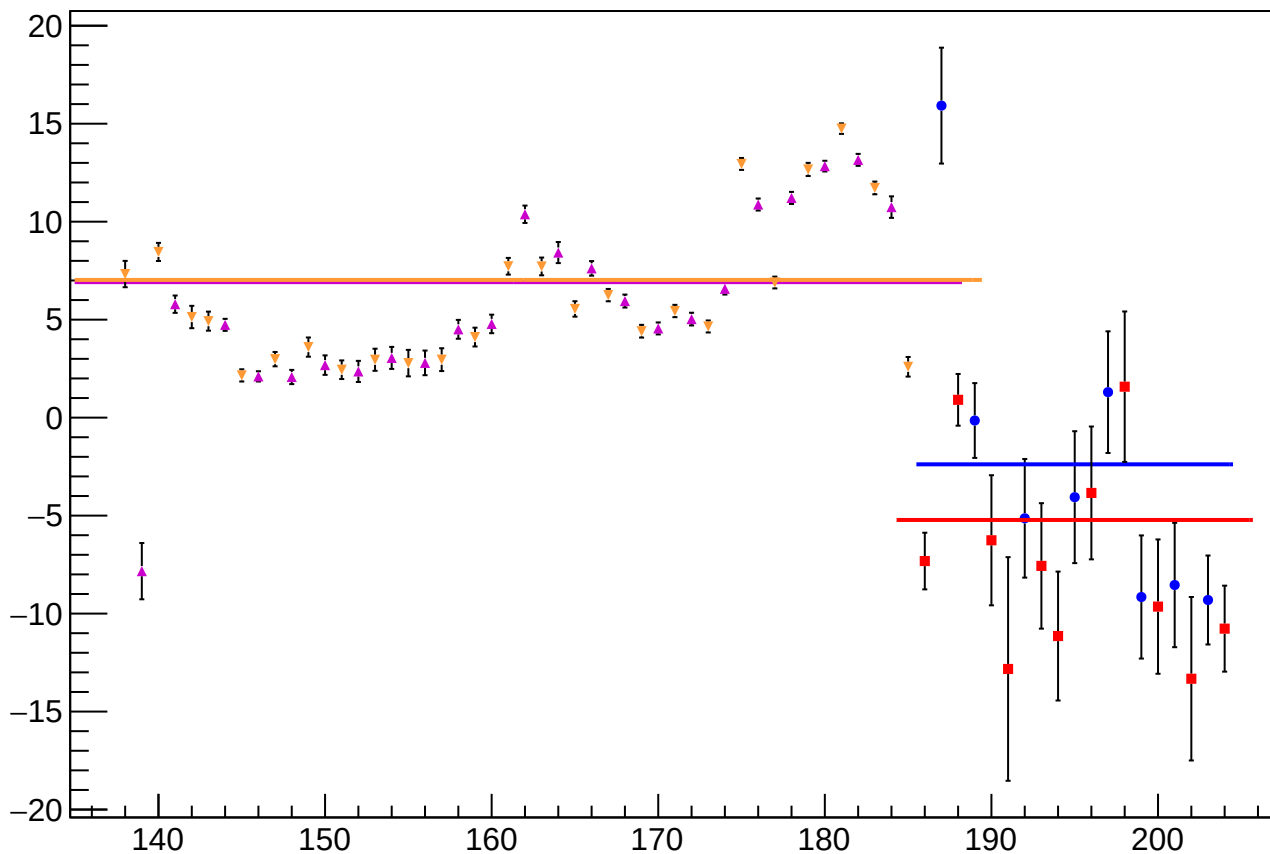
Right: -5.244 ± 0.459 $\chi^2/\text{NDF}: 5057.0/18$

In: -12.992 ± 0.094 $\chi^2/\text{NDF}: 5746.0/30$

Out: -12.707 ± 0.092 $\chi^2/\text{NDF}: 10343.1/35$

All: -12.846 ± 0.066 $\chi^2/\text{NDF}: 16093.8/66$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.383 ± 0.960 $\chi^2/\text{NDF}: 59.9/7$

Left Out: 7.028 ± 0.077 $\chi^2/\text{NDF}: 2665.3/24$

Right Out: -5.222 ± 0.731 $\chi^2/\text{NDF}: 44.5/10$

Left In: 6.914 ± 0.078 $\chi^2/\text{NDF}: 2428.2/22$

Left: 6.971 ± 0.055 $\chi^2/\text{NDF}: 5094.6/47$

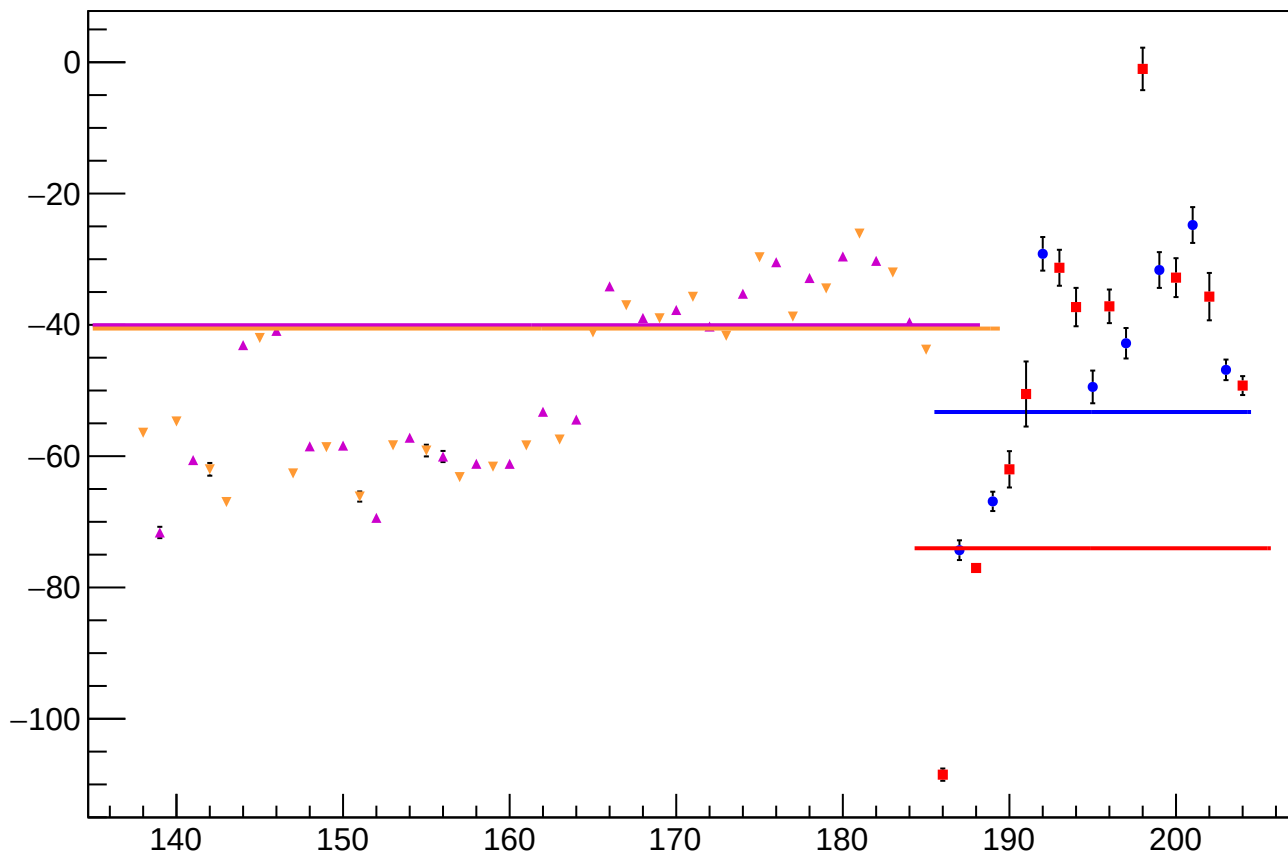
Right: -4.179 ± 0.582 $\chi^2/\text{NDF}: 109.9/18$

In: 6.853 ± 0.077 $\chi^2/\text{NDF}: 2581.3/30$

Out: 6.893 ± 0.077 $\chi^2/\text{NDF}: 2987.2/35$

All: 6.873 ± 0.055 $\chi^2/\text{NDF}: 5568.6/66$

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.273 ± 0.693 χ^2/NDF : 581.7/7

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.027 ± 0.485 χ^2/NDF : 3136.0/10

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

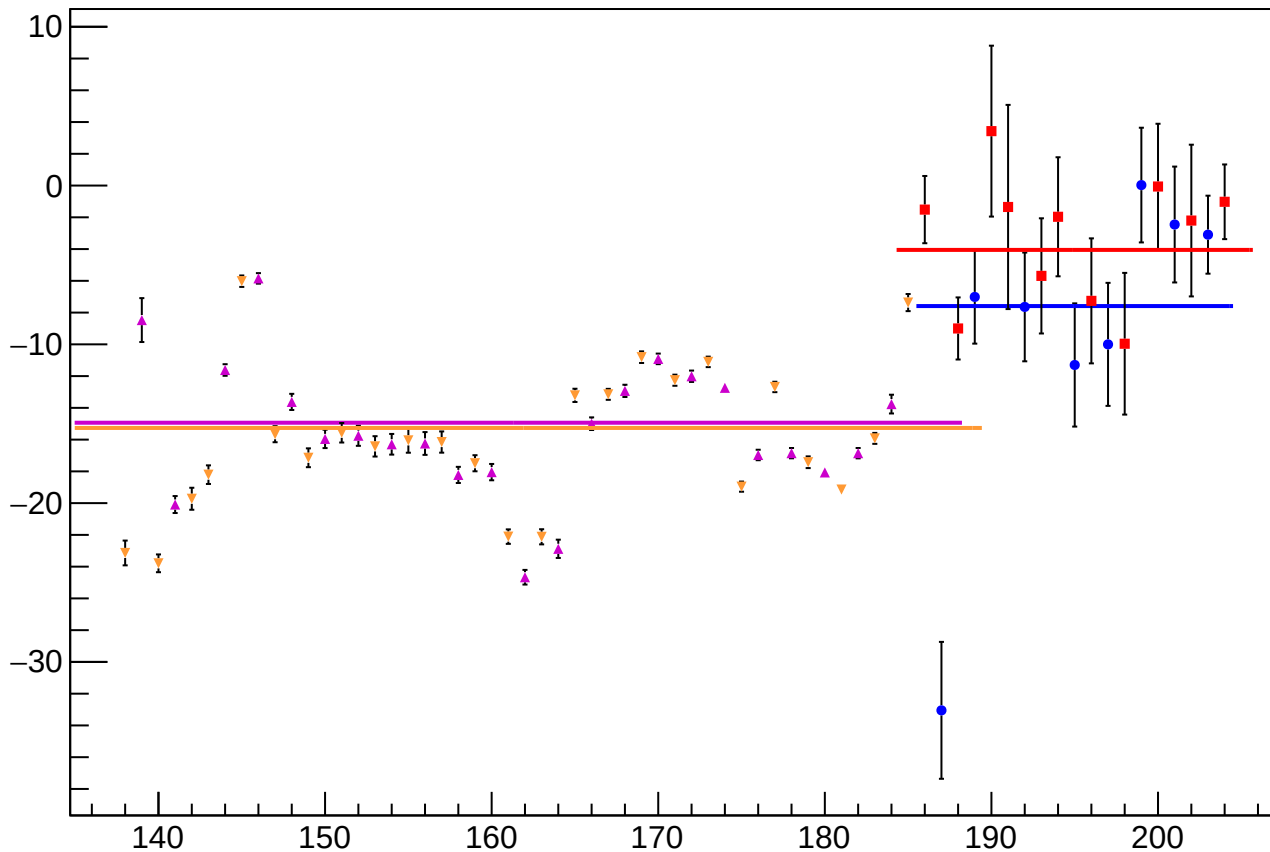
Right: -67.213 ± 0.397 χ^2/NDF : 4319.6/18

In: -40.300 ± 0.095 χ^2/NDF : 14865.8/30

Out: -41.794 ± 0.093 χ^2/NDF : 23363.9/35

All: -41.061 ± 0.066 χ^2/NDF : 38356.3/66

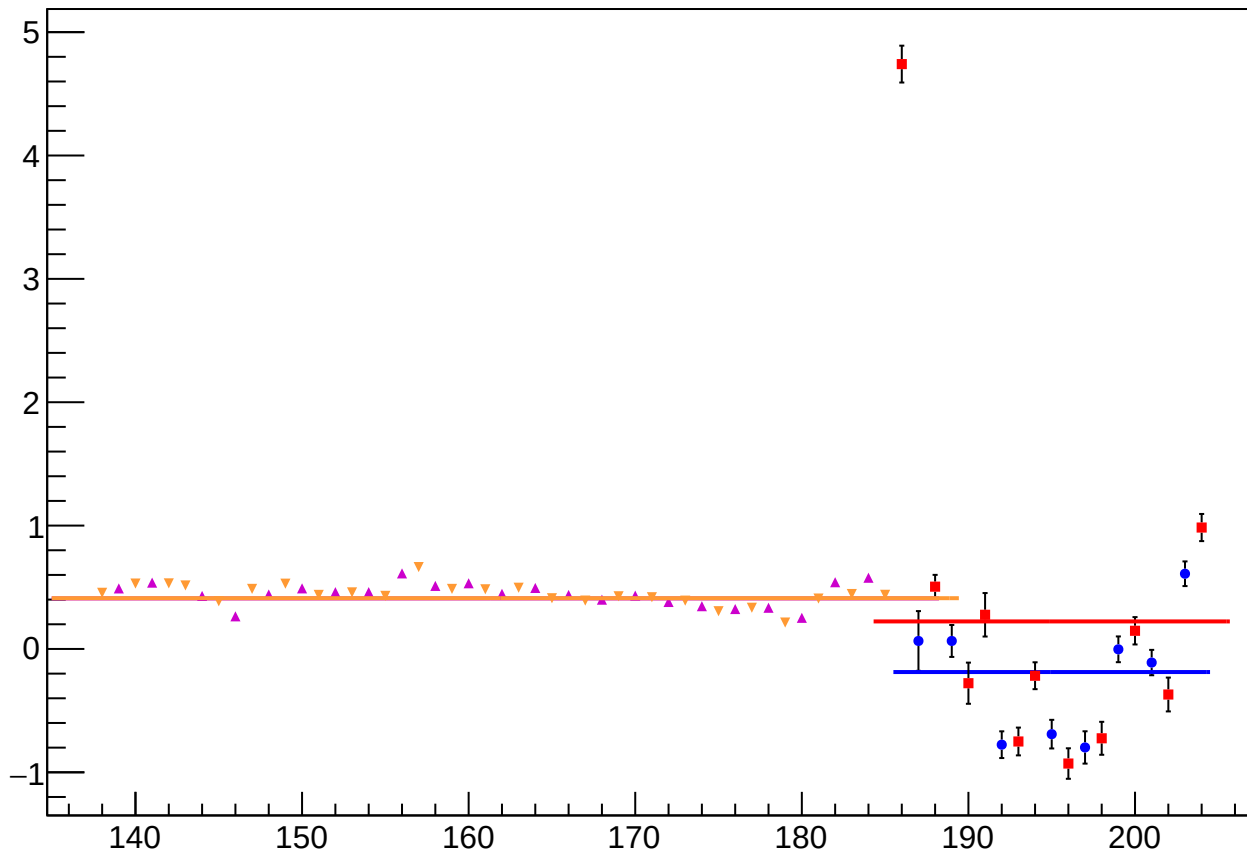
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.589 ± 1.191 $\chi^2/\text{NDF}: 46.0/7$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -4.052 ± 0.956 $\chi^2/\text{NDF}: 15.7/10$
 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: -5.439 ± 0.745 $\chi^2/\text{NDF}: 67.1/18$
 In: -14.897 ± 0.087 $\chi^2/\text{NDF}: 2283.6/30$
 Out: -15.176 ± 0.086 $\chi^2/\text{NDF}: 2747.6/35$
 All: -15.038 ± 0.061 $\chi^2/\text{NDF}: 5036.4/66$

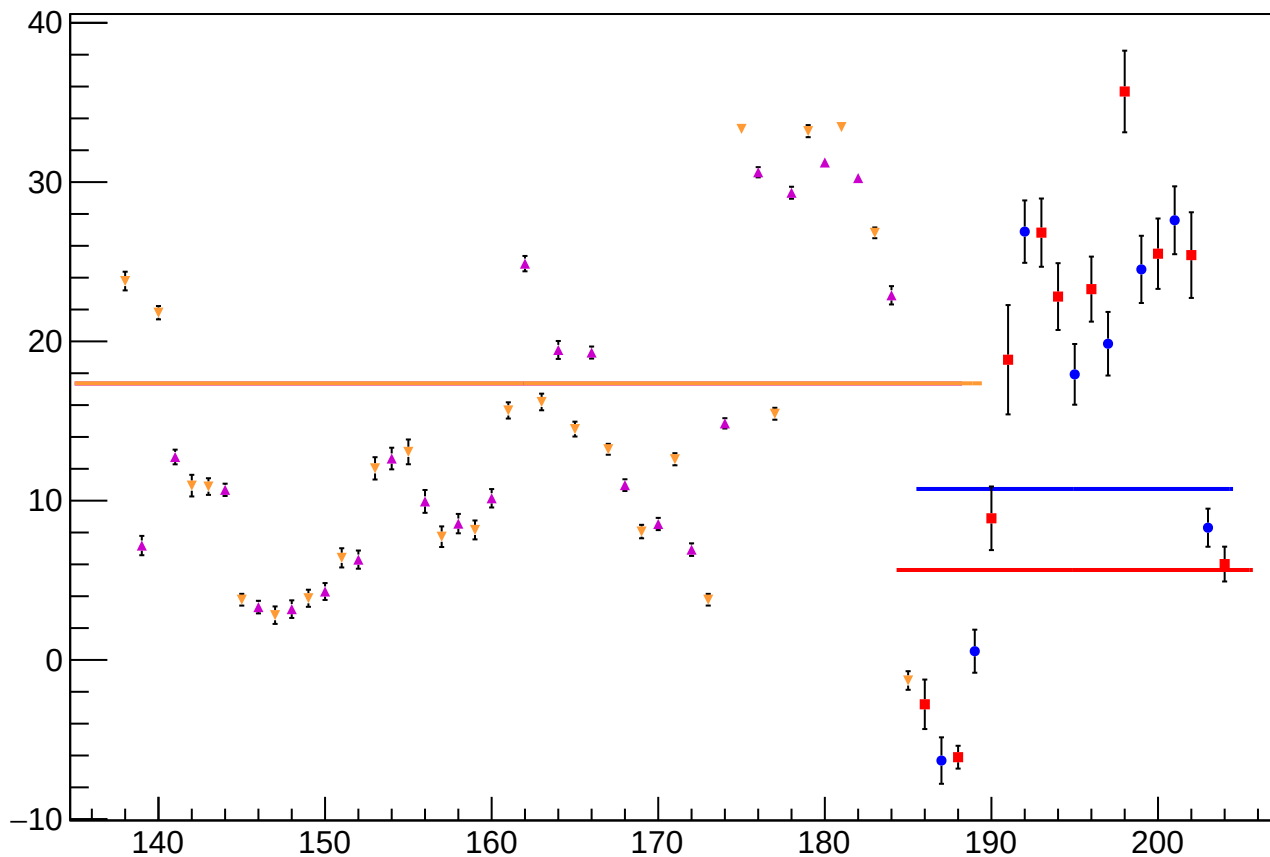
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.187 ± 0.041 $\chi^2/\text{NDF}: 142.2/7$
 Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$
 Right Out: 0.223 ± 0.037 $\chi^2/\text{NDF}: 1227.6/10$
 Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$
 Right: 0.040 ± 0.028 $\chi^2/\text{NDF}: 1424.0/18$
 In: 0.404 ± 0.004 $\chi^2/\text{NDF}: 904.9/30$
 Out: 0.409 ± 0.004 $\chi^2/\text{NDF}: 1681.6/35$
 All: 0.407 ± 0.003 $\chi^2/\text{NDF}: 2587.5/66$

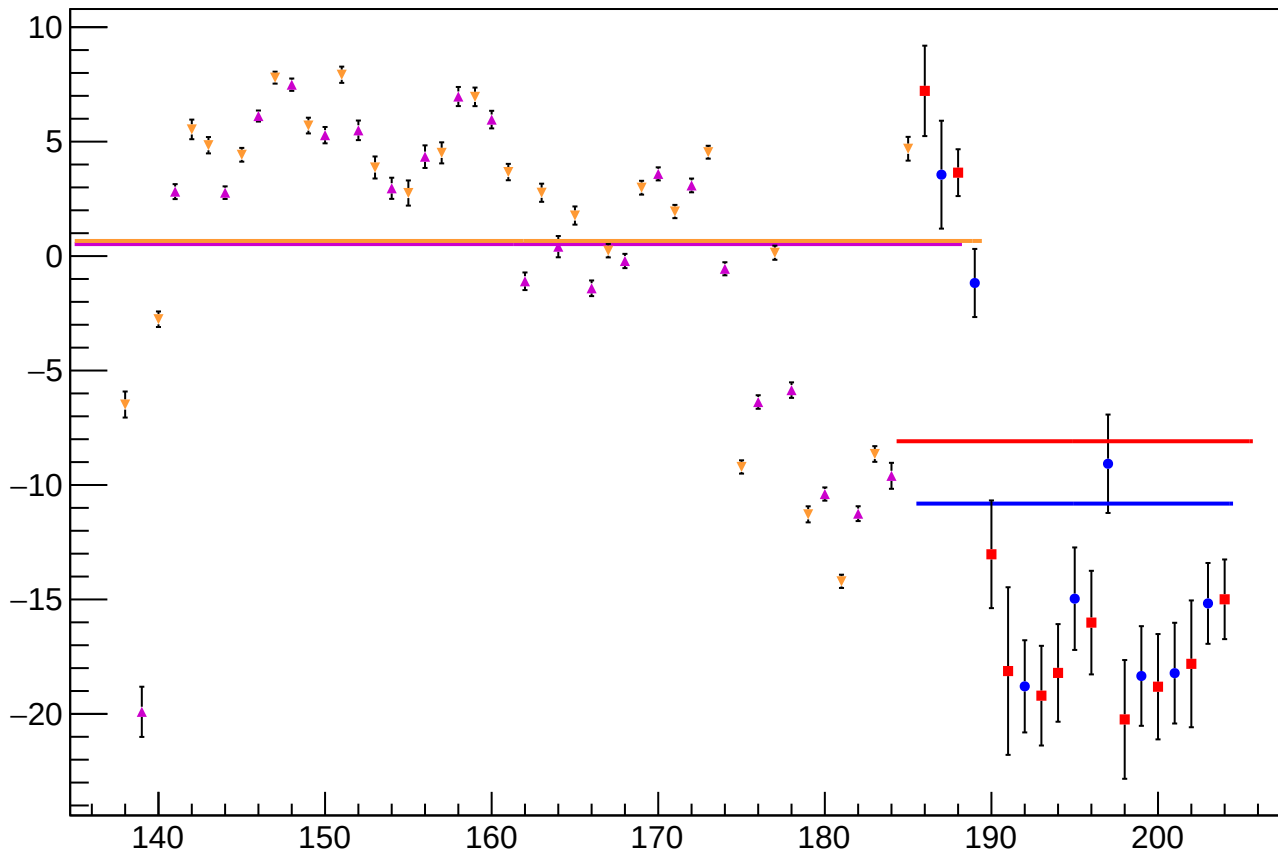
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.734 $\pm$ 0.582 χ^2 /NDF: 406.1/7
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 5.647 $\pm$ 0.461 χ^2 /NDF: 827.4/10
 Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47
 Right: 7.605 $\pm$ 0.361 χ^2 /NDF: 1280.4/18
 In: 17.204 $\pm$ 0.088 χ^2 /NDF:13277.5/30
 Out: 16.963 $\pm$ 0.086 χ^2 /NDF:17790.2/35
 All: 17.080 $\pm$ 0.061 χ^2 /NDF: 31071.6/66

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.813 ± 0.701 χ^2/NDF : 128.3/7

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -8.089 ± 0.588 χ^2/NDF : 336.1/10

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

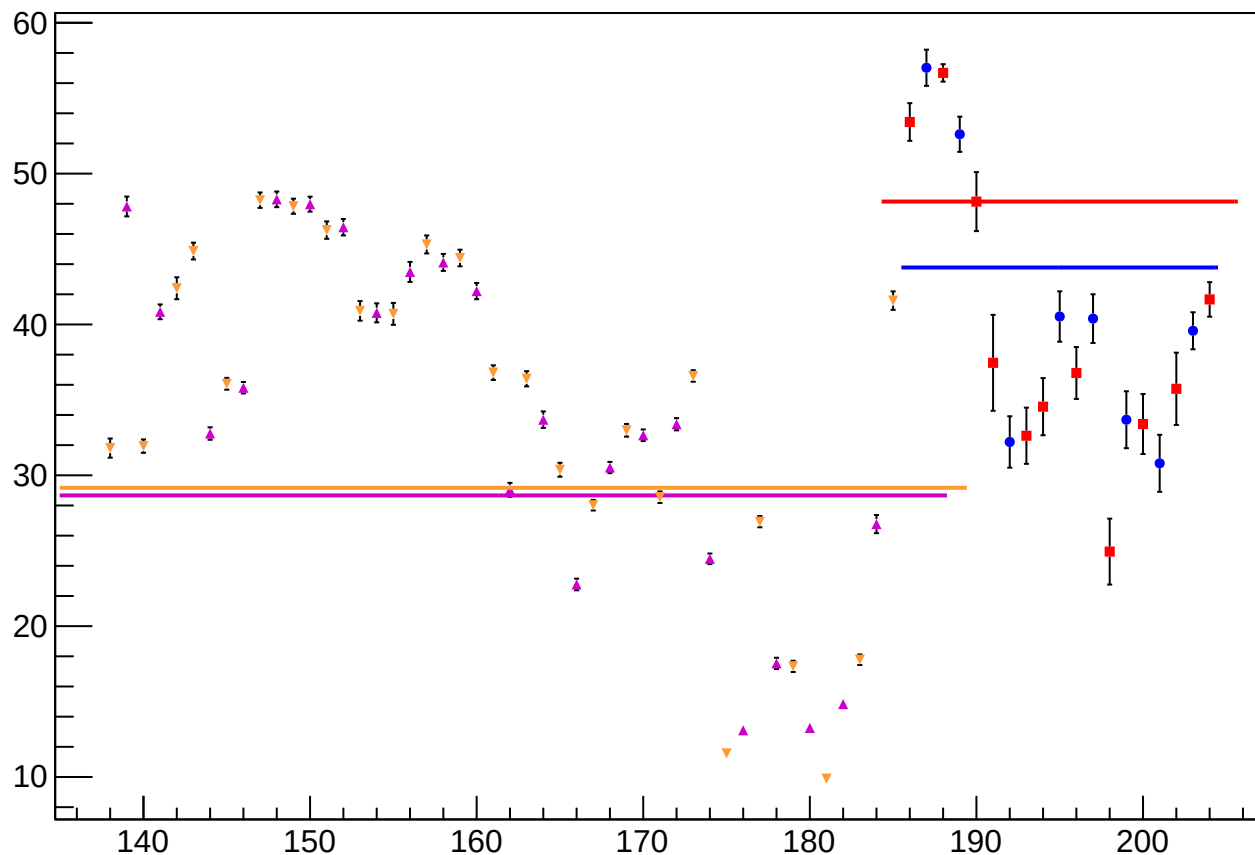
Right: -9.213 ± 0.451 χ^2/NDF : 473.3/18

In: 0.410 ± 0.070 χ^2/NDF : 7116.6/30

Out: 0.541 ± 0.069 χ^2/NDF : 9108.4/35

All: 0.477 ± 0.049 χ^2/NDF : 16226.7/66

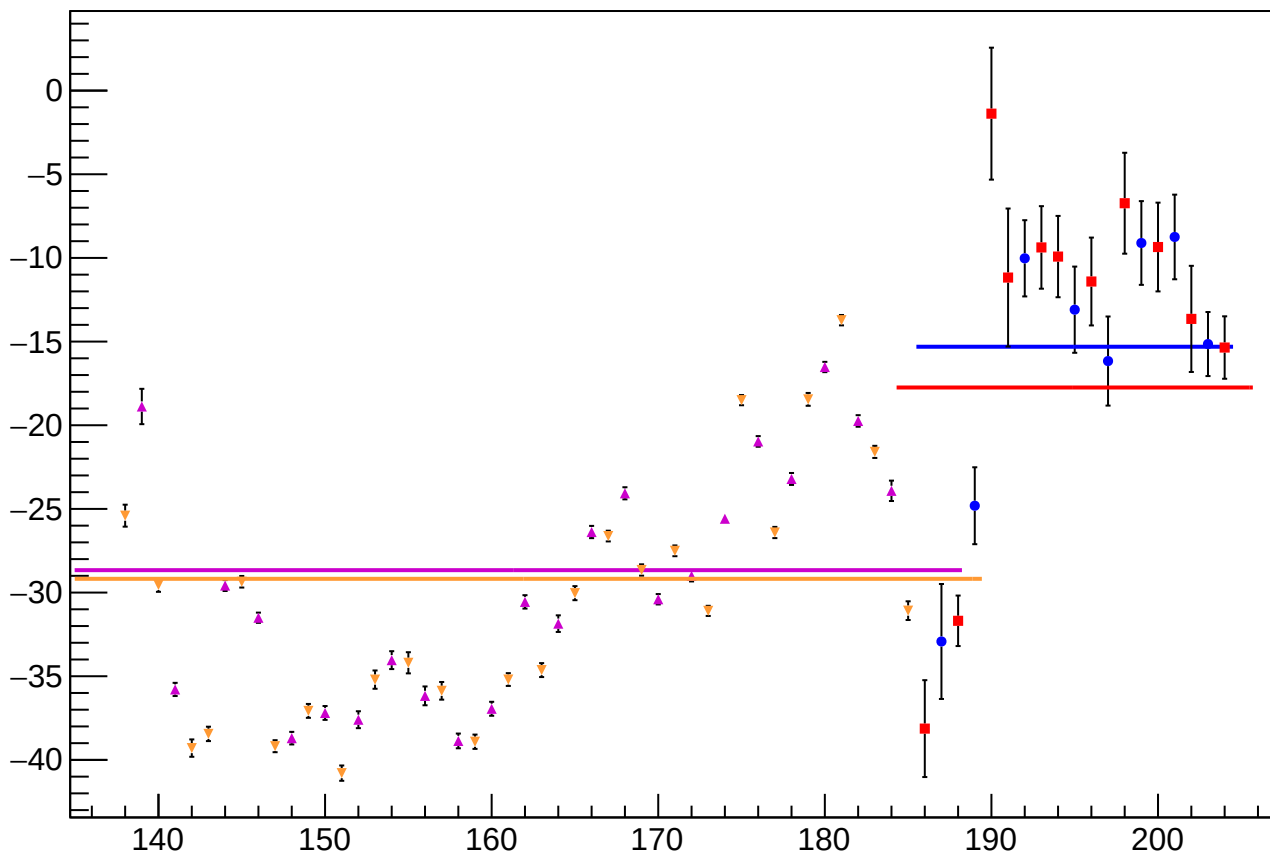
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 43.777 $\pm$ 0.517 χ^2 /NDF: 321.0/7
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 48.148 $\pm$ 0.399 χ^2 /NDF: 637.9/10
 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: 46.519 $\pm$ 0.316 χ^2 /NDF: 1003.8/18
 In: 29.103 $\pm$ 0.088 χ^2 /NDF:17997.7/30
 Out: 30.049 $\pm$ 0.086 χ^2 /NDF:21774.6/35
 All: 29.587 $\pm$ 0.061 χ^2 /NDF: 39831.7/66

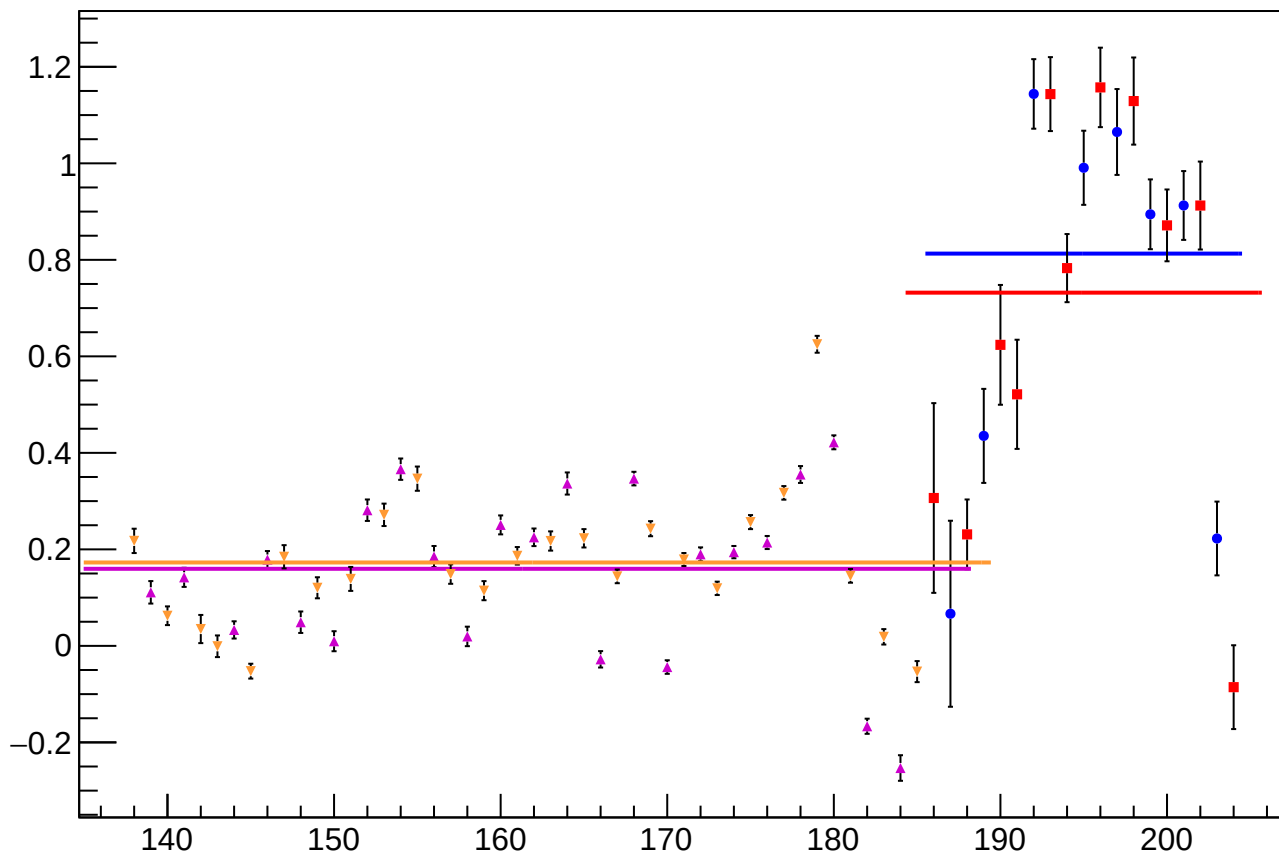
reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.308 ± 0.861 $\chi^2/\text{NDF}: 62.5/7$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -17.744 ± 0.746 $\chi^2/\text{NDF}: 209.1/10$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -16.701 ± 0.564 $\chi^2/\text{NDF}: 276.1/18$
 In: -28.547 ± 0.079 $\chi^2/\text{NDF}: 6970.8/30$
 Out: -29.054 ± 0.078 $\chi^2/\text{NDF}: 9523.1/35$
 All: -28.806 ± 0.056 $\chi^2/\text{NDF}: 16514.7/66$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.813 ± 0.029 χ^2/NDF : 127.4/7

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.732 ± 0.026 χ^2/NDF : 228.3/10

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

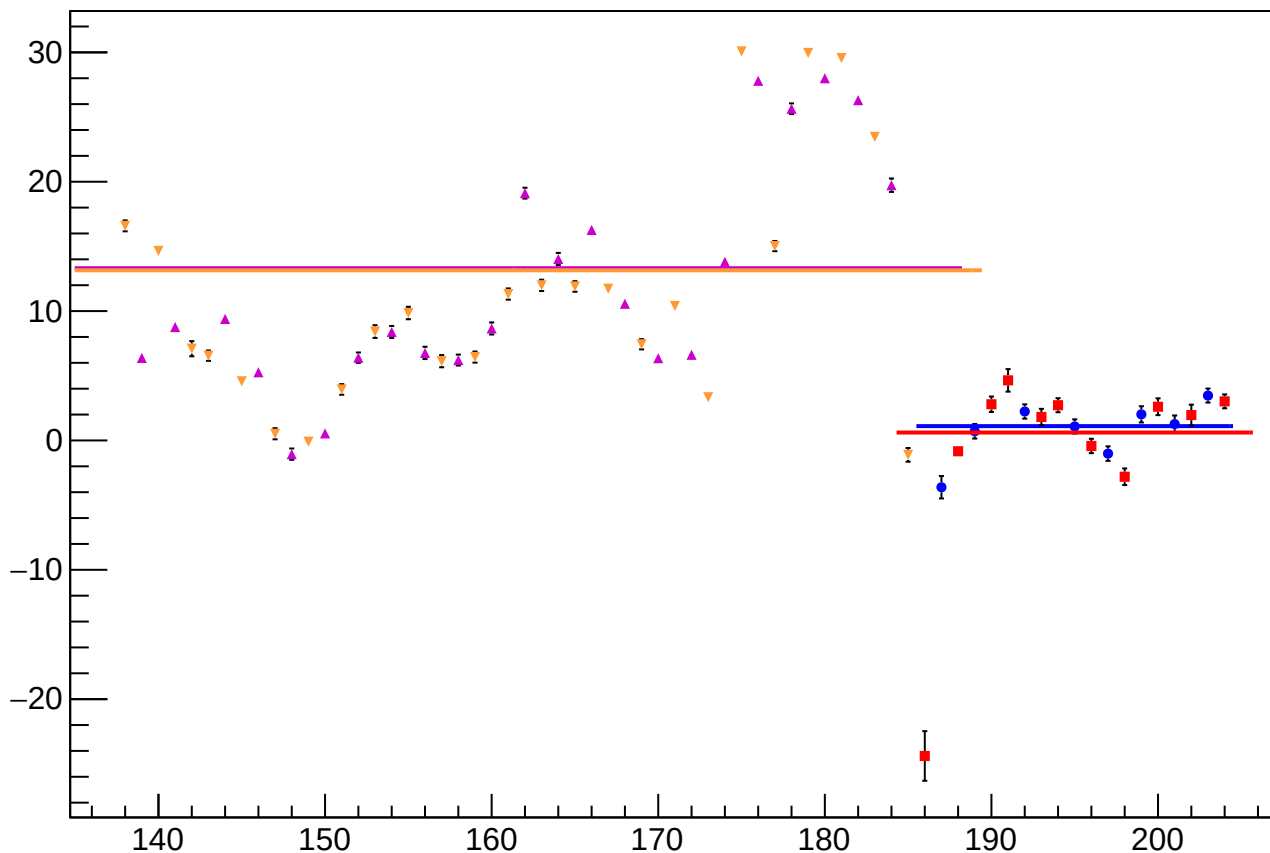
Right: 0.769 ± 0.020 χ^2/NDF : 359.9/18

In: 0.170 ± 0.004 χ^2/NDF : 2680.8/30

Out: 0.183 ± 0.004 χ^2/NDF : 2147.2/35

All: 0.177 ± 0.003 χ^2/NDF : 4834.7/66

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.107 $\pm$ 0.211 χ^2 /NDF: 69.8/7

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.613 $\pm$ 0.167 χ^2 /NDF: 313.6/10

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

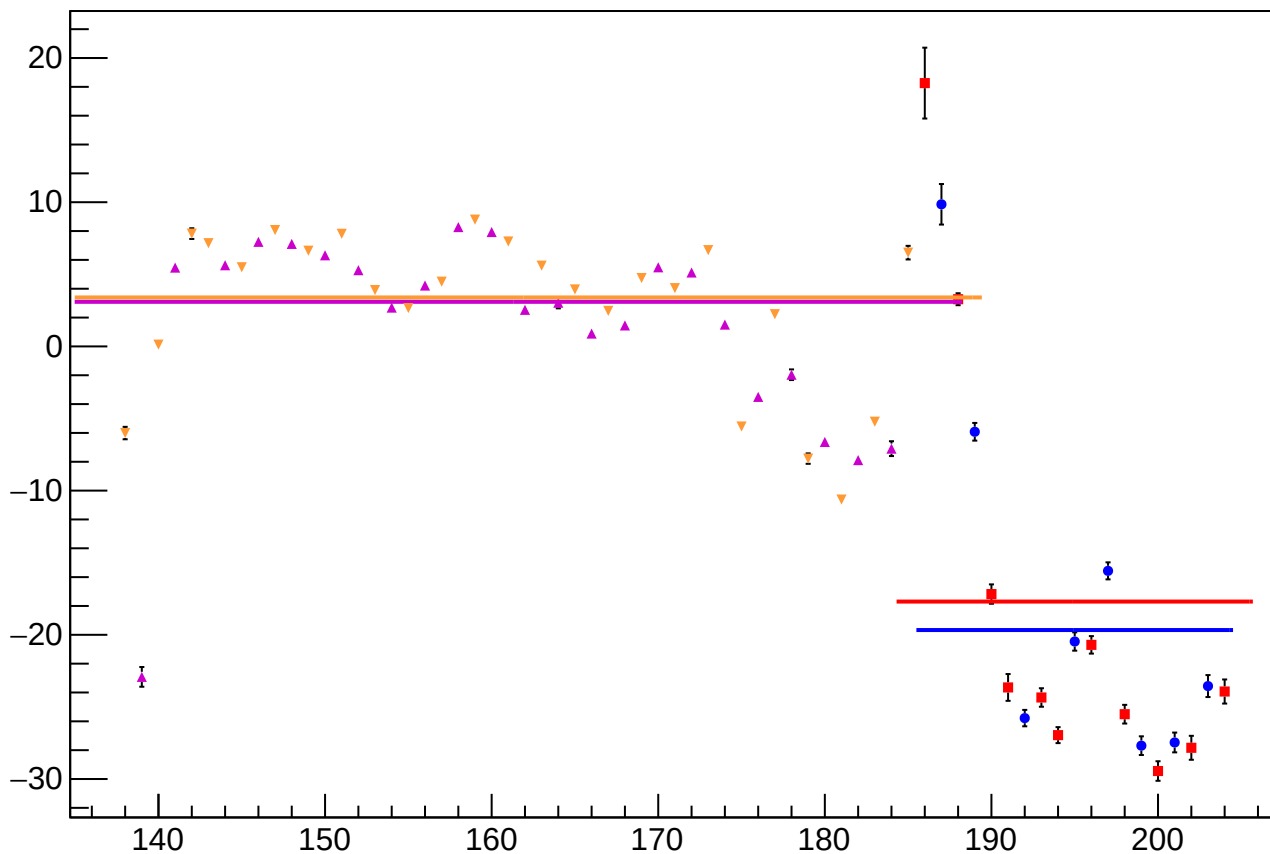
Right: 0.803 $\pm$ 0.131 χ^2 /NDF: 386.7/18

In: 11.879 $\pm$ 0.072 χ^2 /NDF:16995.4/30

Out: 11.037 $\pm$ 0.069 χ^2 /NDF:22083.4/35

All: 11.435 $\pm$ 0.050 χ^2 /NDF: 39150.1/66

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -19.670 ± 0.237 $\chi^2/\text{NDF}: 1416.1/7$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -17.695 ± 0.199 $\chi^2/\text{NDF}: 3877.7/10$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

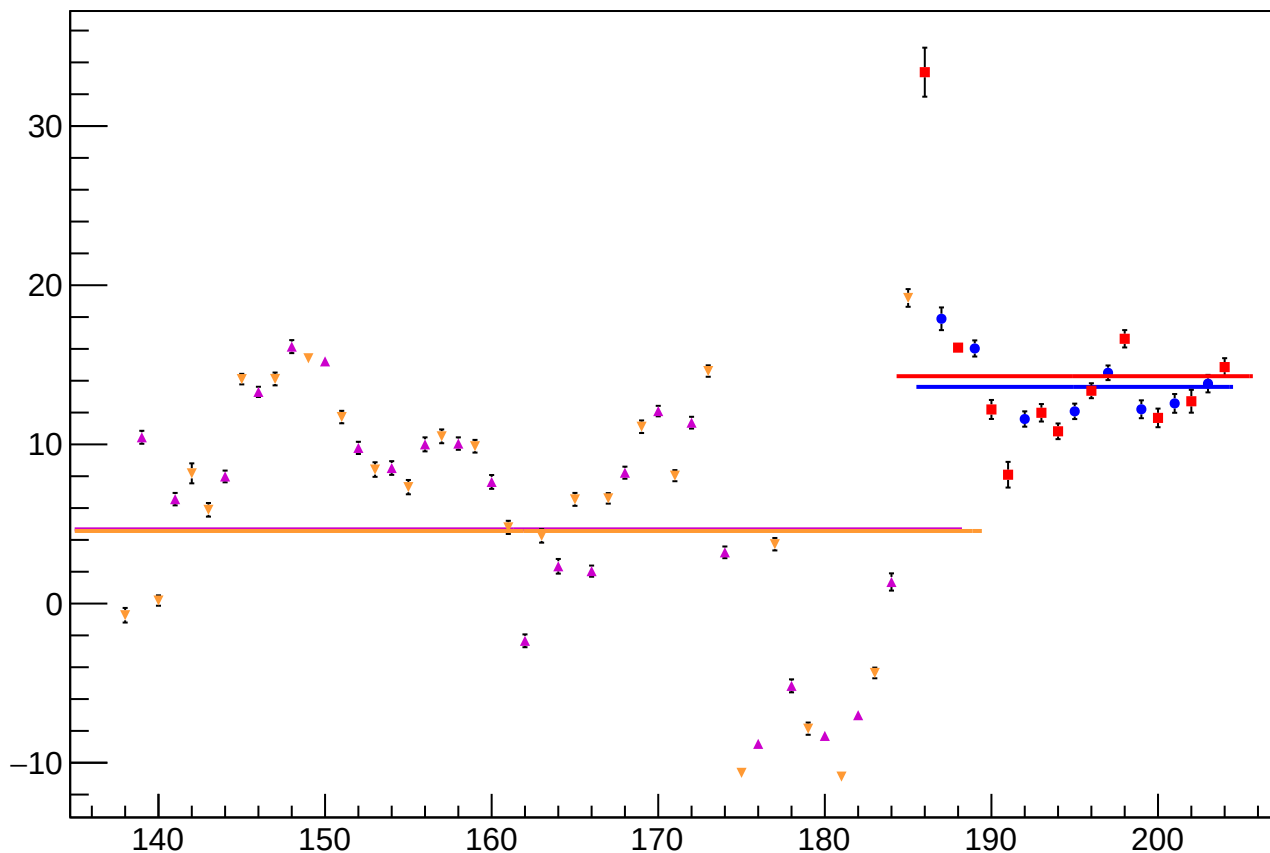
Right: -18.513 ± 0.152 $\chi^2/\text{NDF}: 5334.5/18$

In: 1.695 ± 0.059 $\chi^2/\text{NDF}: 17186.8/30$

Out: 1.727 ± 0.056 $\chi^2/\text{NDF}: 22307.4/35$

All: 1.712 ± 0.041 $\chi^2/\text{NDF}: 39494.3/66$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.613+/-0.187 χ^2/NDF : 99.4/7

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 14.285+/-0.145 χ^2/NDF : 401.8/10

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

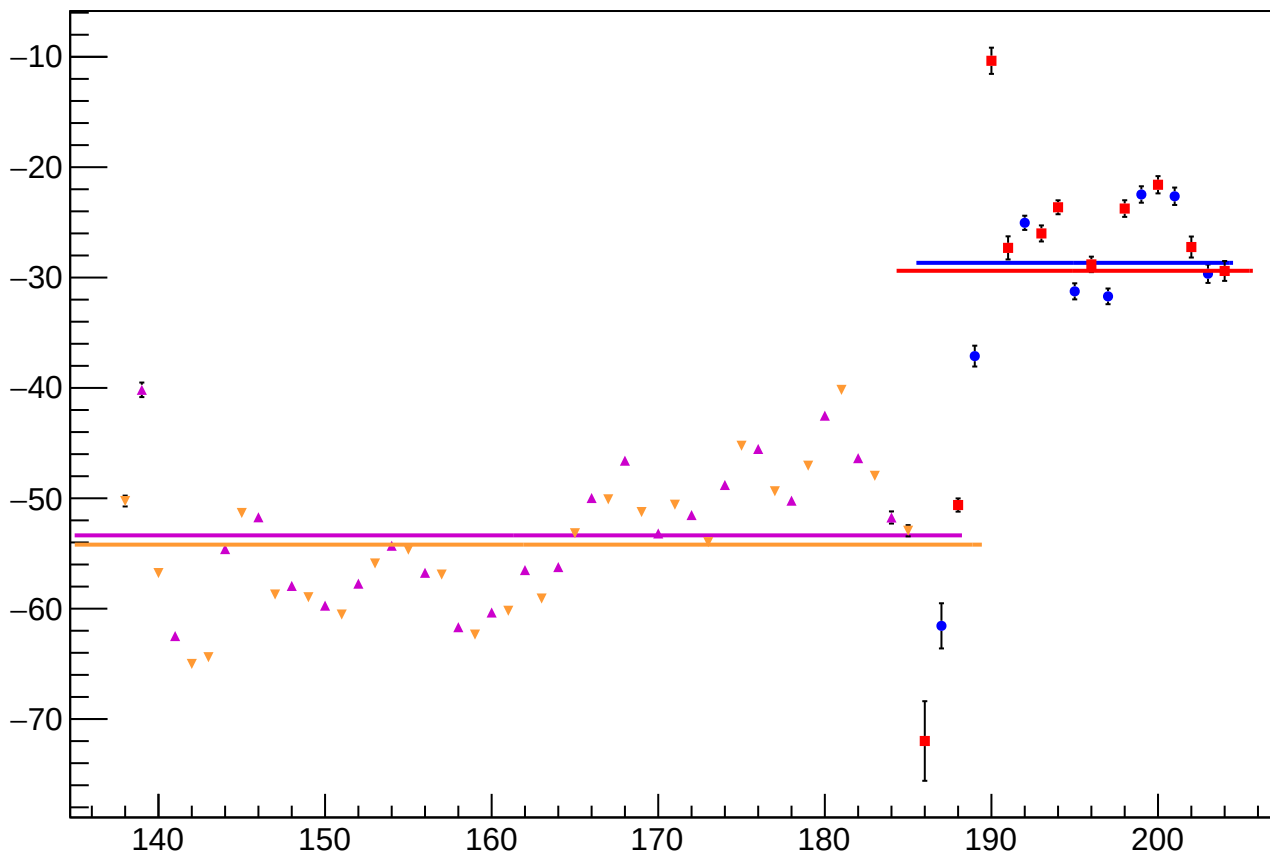
Right: 14.032+/-0.115 χ^2/NDF : 509.2/18

In: 5.950+/-0.071 χ^2/NDF :13335.4/30

Out: 6.620+/-0.067 χ^2/NDF :17517.7/35

All: 6.305+/-0.049 χ^2/NDF : 30900.2/66

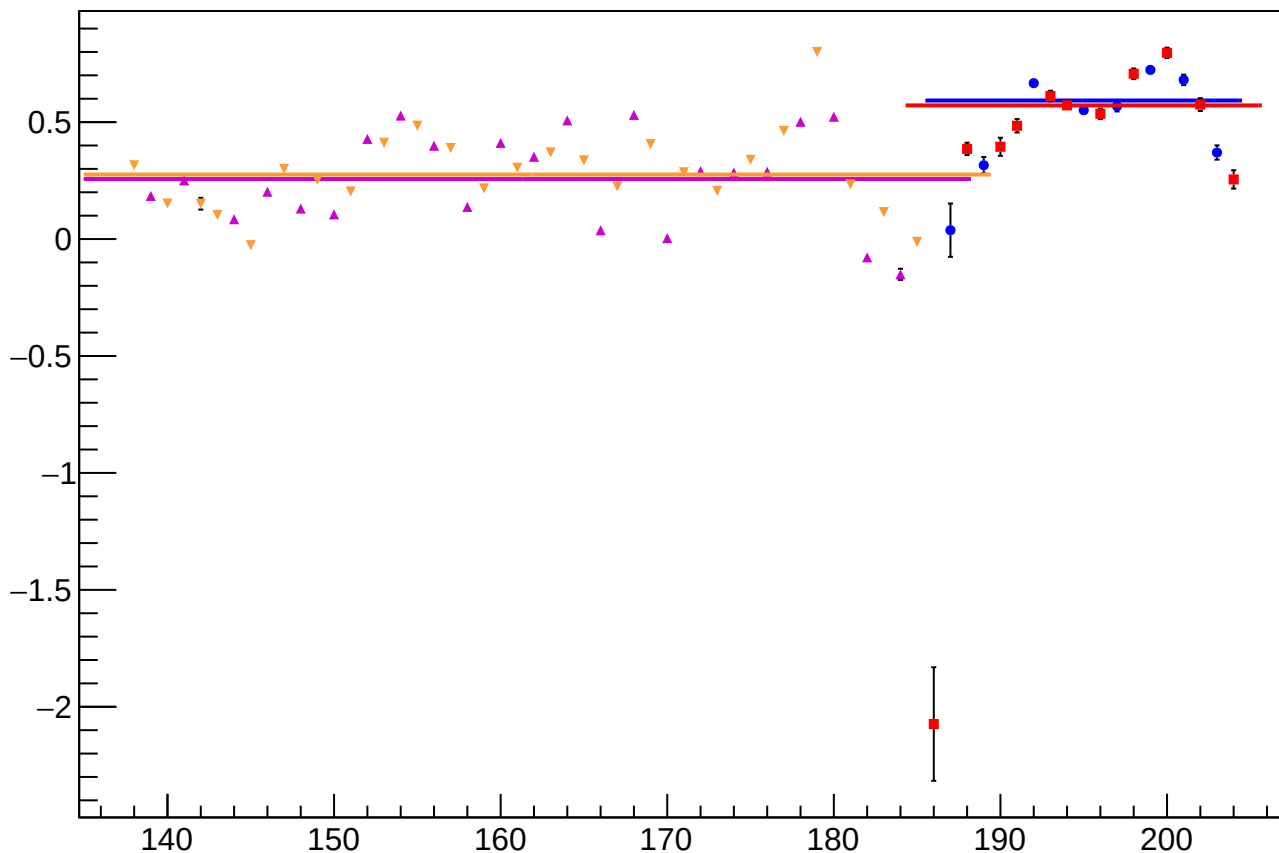
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.666 ± 0.283 $\chi^2/\text{NDF}: 529.8/7$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.387 ± 0.245 $\chi^2/\text{NDF}: 1921.3/10$
 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: -29.078 ± 0.185 $\chi^2/\text{NDF}: 2454.9/18$
 In: -51.993 ± 0.067 $\chi^2/\text{NDF}: 14605.0/30$
 Out: -52.502 ± 0.064 $\chi^2/\text{NDF}: 19928.2/35$
 All: -52.257 ± 0.046 $\chi^2/\text{NDF}: 34563.5/66$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.592 ± 0.009 χ^2/NDF : 209.6/7

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.571 ± 0.008 χ^2/NDF : 410.4/10

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

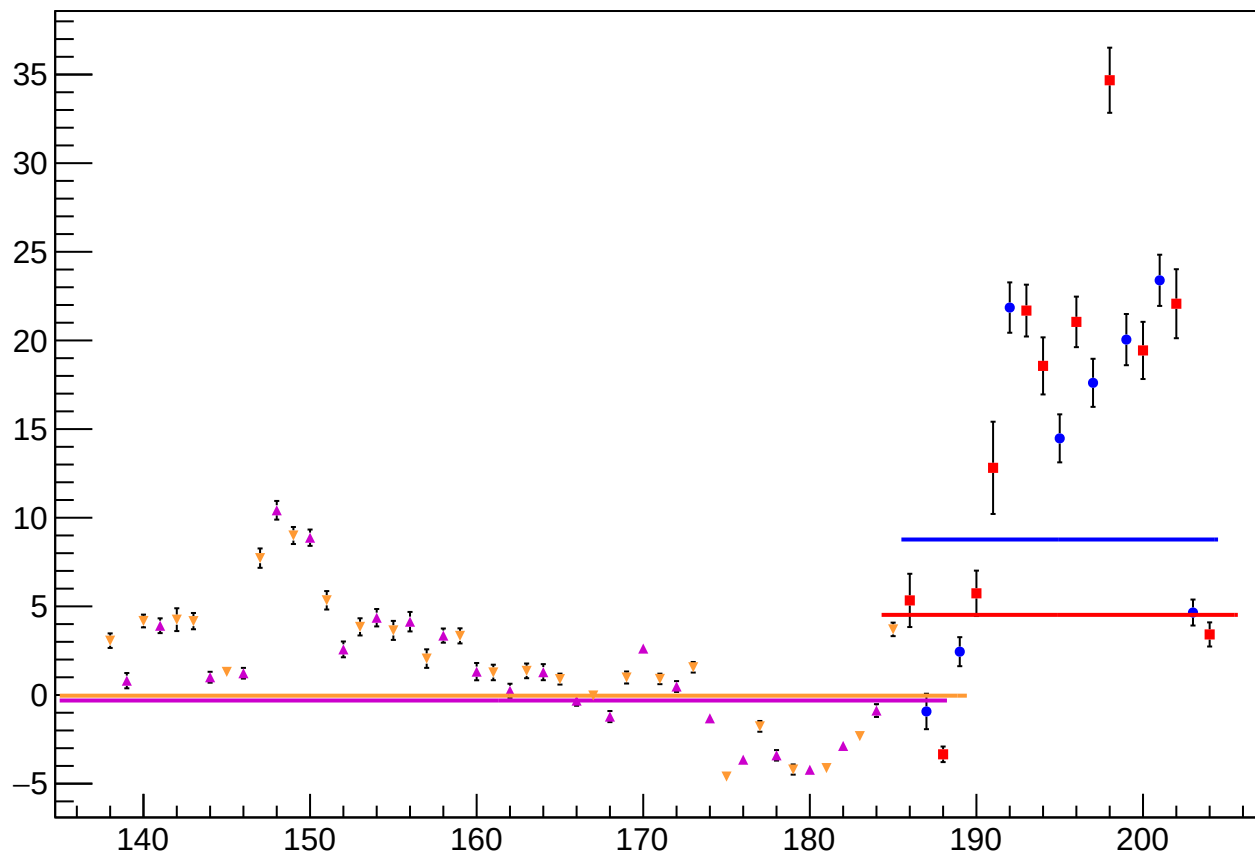
Right: 0.581 ± 0.006 χ^2/NDF : 623.1/18

In: 0.293 ± 0.003 χ^2/NDF : 5102.7/30

Out: 0.315 ± 0.003 χ^2/NDF : 4274.9/35

All: 0.304 ± 0.002 χ^2/NDF : 9406.3/66

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.771 ± 0.381 $\chi^2/\text{NDF}: 494.0/7$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 4.520 ± 0.304 $\chi^2/\text{NDF}: 1119.8/10$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

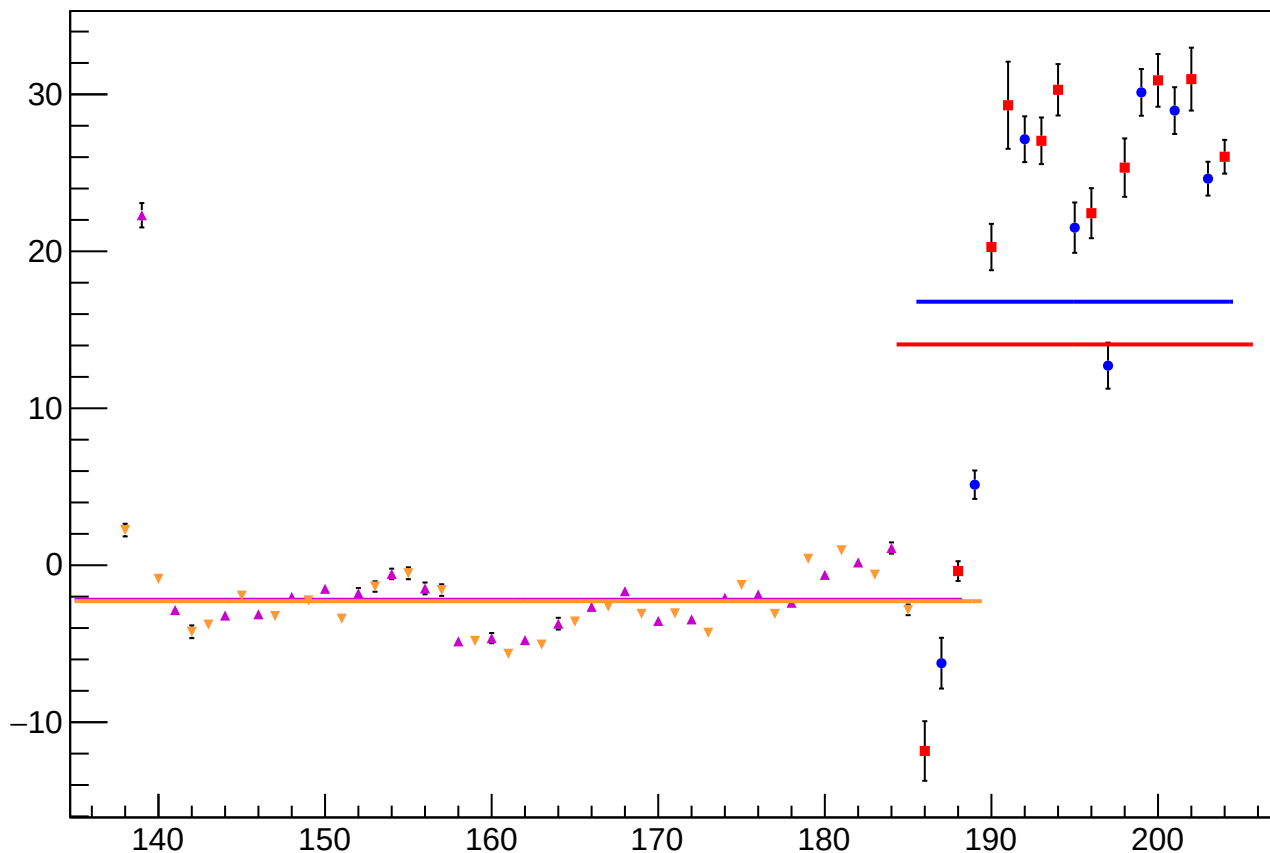
Right: 6.174 ± 0.237 $\chi^2/\text{NDF}: 1690.0/18$

In: -0.035 ± 0.066 $\chi^2/\text{NDF}: 3296.4/30$

Out: 0.168 ± 0.064 $\chi^2/\text{NDF}: 3972.4/35$

All: 0.070 ± 0.046 $\chi^2/\text{NDF}: 7273.7/66$

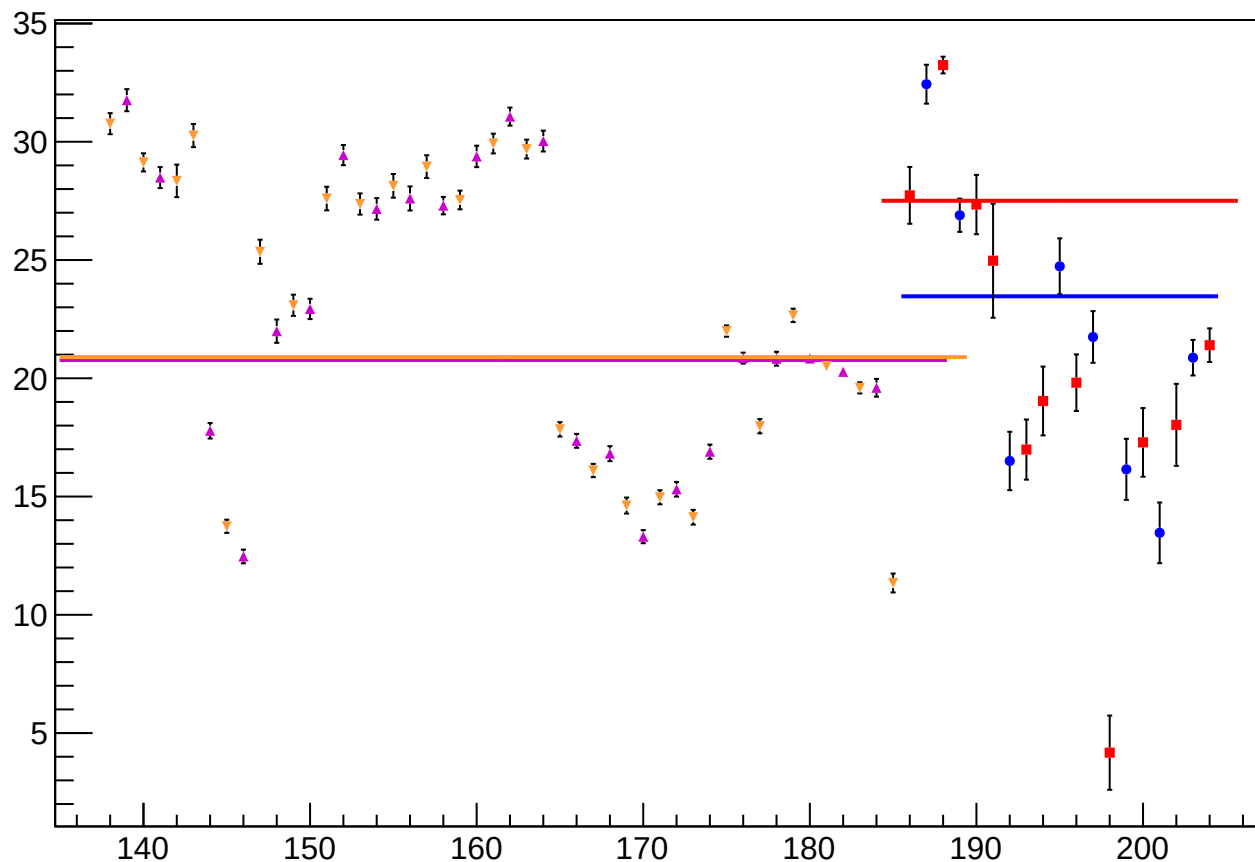
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.791 ± 0.462 $\chi^2/\text{NDF}: 634.8/7$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 14.068 ± 0.396 $\chi^2/\text{NDF}: 1296.9/10$
 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: 15.221 ± 0.301 $\chi^2/\text{NDF}: 1951.7/18$
 In: -1.931 ± 0.055 $\chi^2/\text{NDF}: 3974.7/30$
 Out: -1.988 ± 0.054 $\chi^2/\text{NDF}: 4110.3/35$
 All: -1.960 ± 0.038 $\chi^2/\text{NDF}: 8085.6/66$

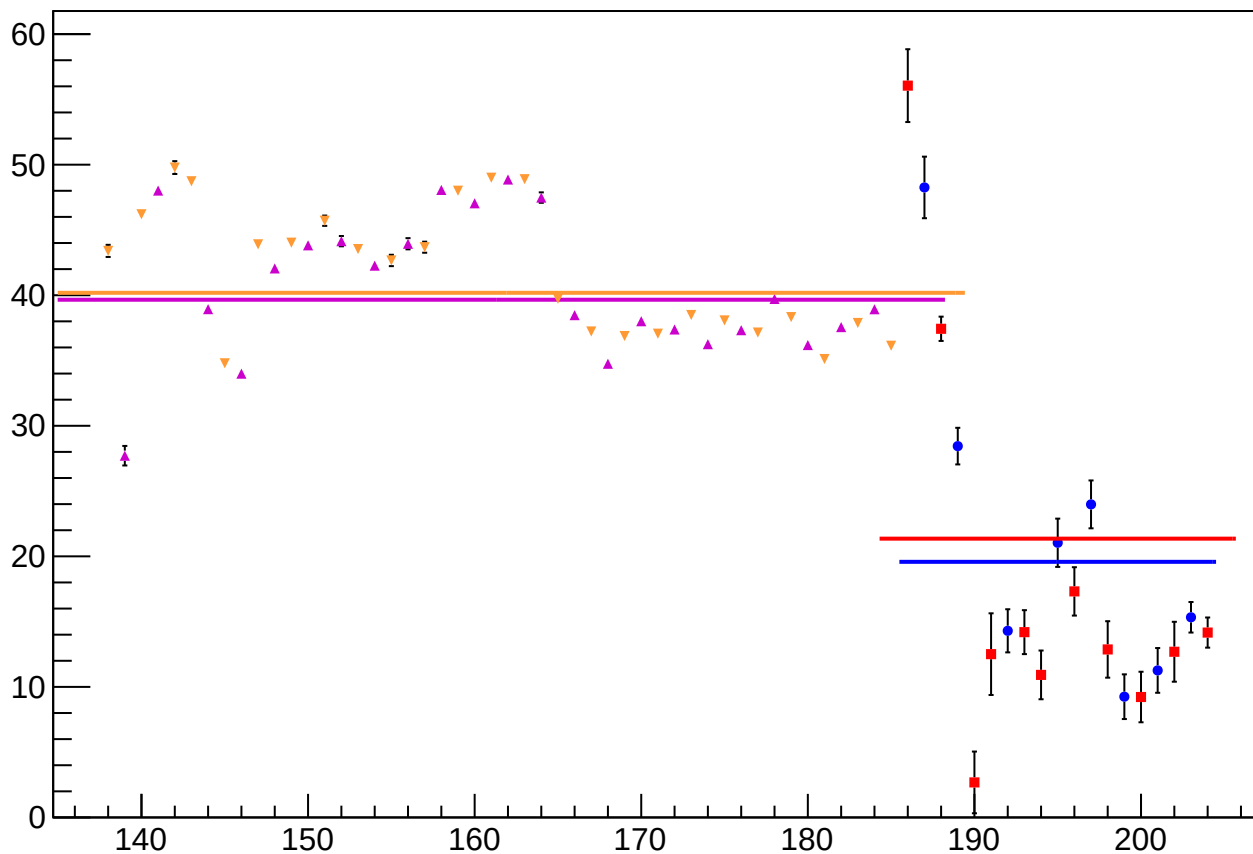
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.466 $\pm$ 0.339 χ^2 /NDF: 283.0/7
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF: 6655.4/24
 Right Out: 27.505 $\pm$ 0.263 χ^2 /NDF: 781.8/10
 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: 25.990 $\pm$ 0.208 χ^2 /NDF: 1153.3/18
 In: 20.877 $\pm$ 0.066 χ^2 /NDF: 6271.3/30
 Out: 21.294 $\pm$ 0.065 χ^2 /NDF: 8031.1/35
 All: 21.090 $\pm$ 0.046 χ^2 /NDF: 14322.7/66

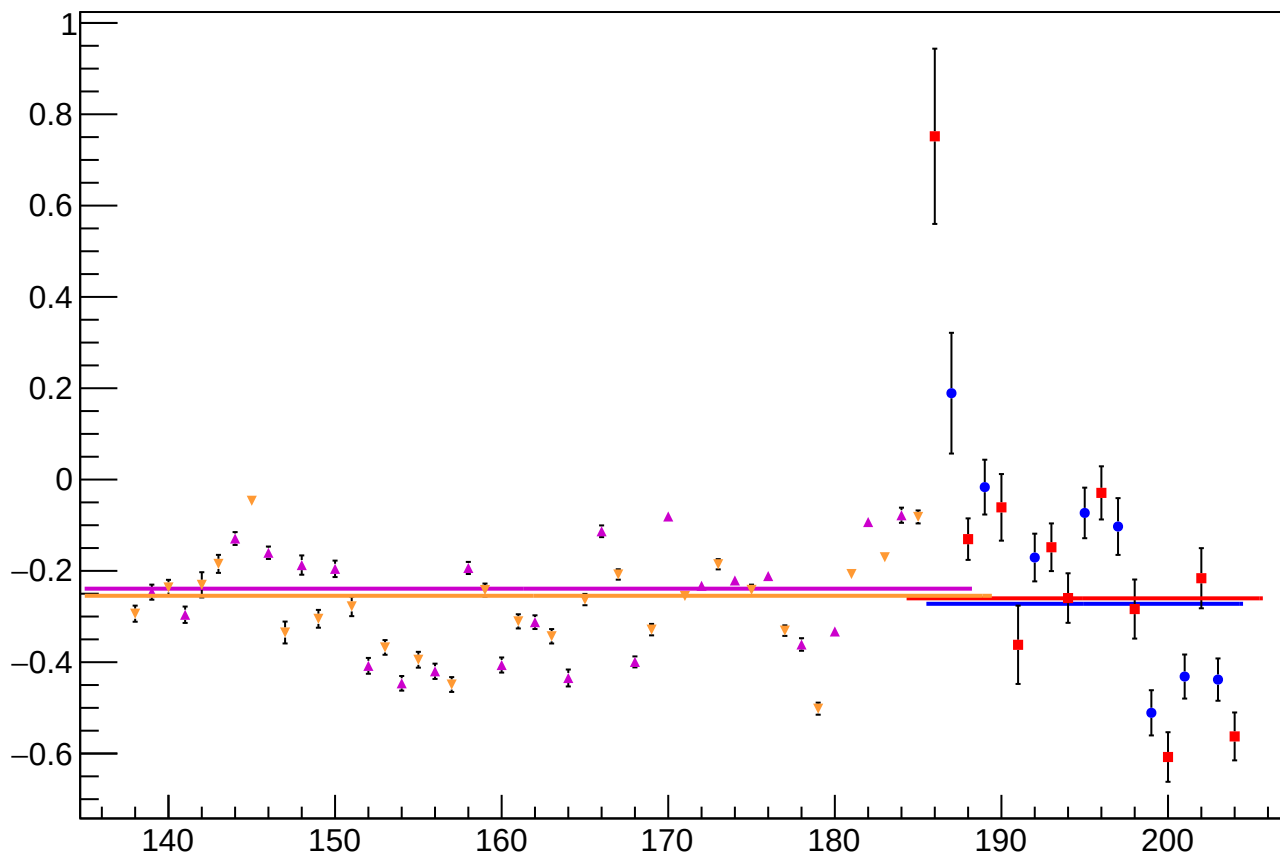
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.580 ± 0.572 $\chi^2/\text{NDF}: 277.6/7$
 Left Out: 40.186 ± 0.060 $\chi^2/\text{NDF}: 5932.7/24$
 Right Out: 21.355 ± 0.505 $\chi^2/\text{NDF}: 685.8/10$
 Left In: 39.655 ± 0.061 $\chi^2/\text{NDF}: 5298.6/22$

Left: 39.925 ± 0.043 $\chi^2/\text{NDF}: 11269.2/47$
 Right: 20.577 ± 0.379 $\chi^2/\text{NDF}: 968.8/18$
 In: 39.426 ± 0.061 $\chi^2/\text{NDF}: 6794.4/30$
 Out: 39.921 ± 0.060 $\chi^2/\text{NDF}: 7988.3/35$
 All: 39.678 ± 0.043 $\chi^2/\text{NDF}: 14816.1/66$

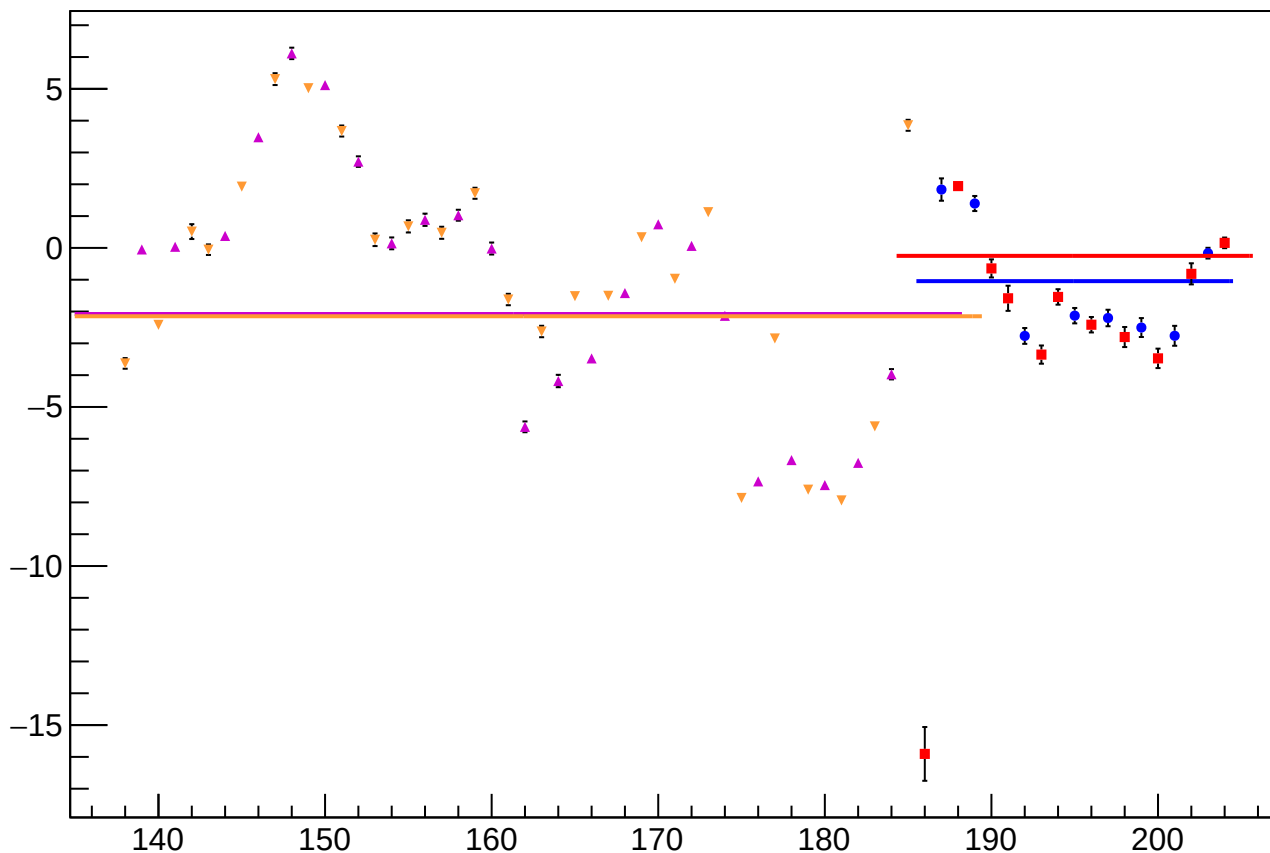
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.020 $\chi^2/\text{NDF}: 101.4/7$
 Left Out: -0.255 ± 0.003 $\chi^2/\text{NDF}: 1420.4/24$
 Right Out: -0.260 ± 0.018 $\chi^2/\text{NDF}: 139.9/10$
 Left In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1750.5/22$

Left: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3186.7/47$
 Right: -0.266 ± 0.013 $\chi^2/\text{NDF}: 241.5/18$
 In: -0.240 ± 0.003 $\chi^2/\text{NDF}: 1854.6/30$
 Out: -0.255 ± 0.003 $\chi^2/\text{NDF}: 1560.4/35$
 All: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3430.2/66$

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

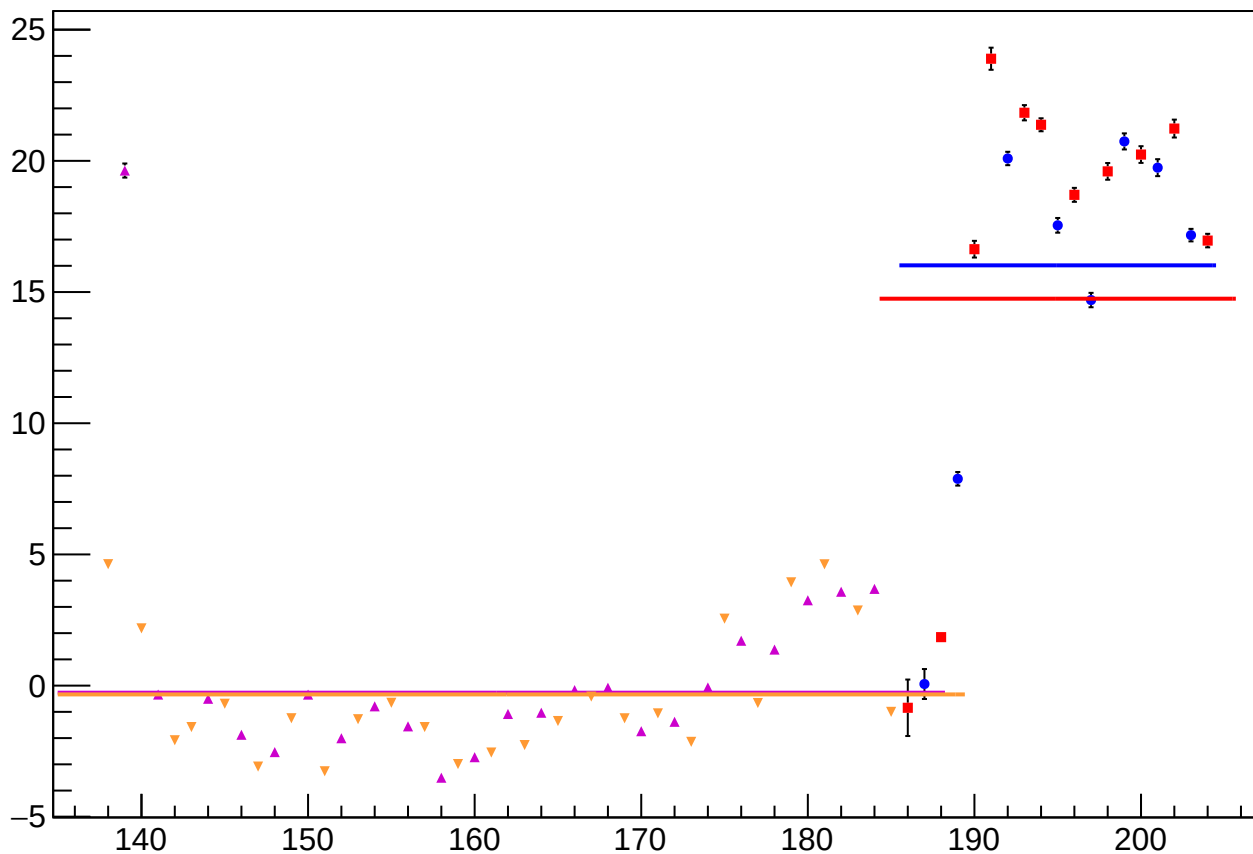


Right In: -1.044 ± 0.088 χ^2/NDF : 342.2/7
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.250 ± 0.068 χ^2/NDF : 1166.6/10
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.550 ± 0.054 χ^2/NDF : 1560.1/18
 In: -1.994 ± 0.025 χ^2/NDF : 23716.1/30
 Out: -1.914 ± 0.024 χ^2/NDF : 26381.7/35

All: -1.952 ± 0.017 χ^2/NDF : 50103.1/66

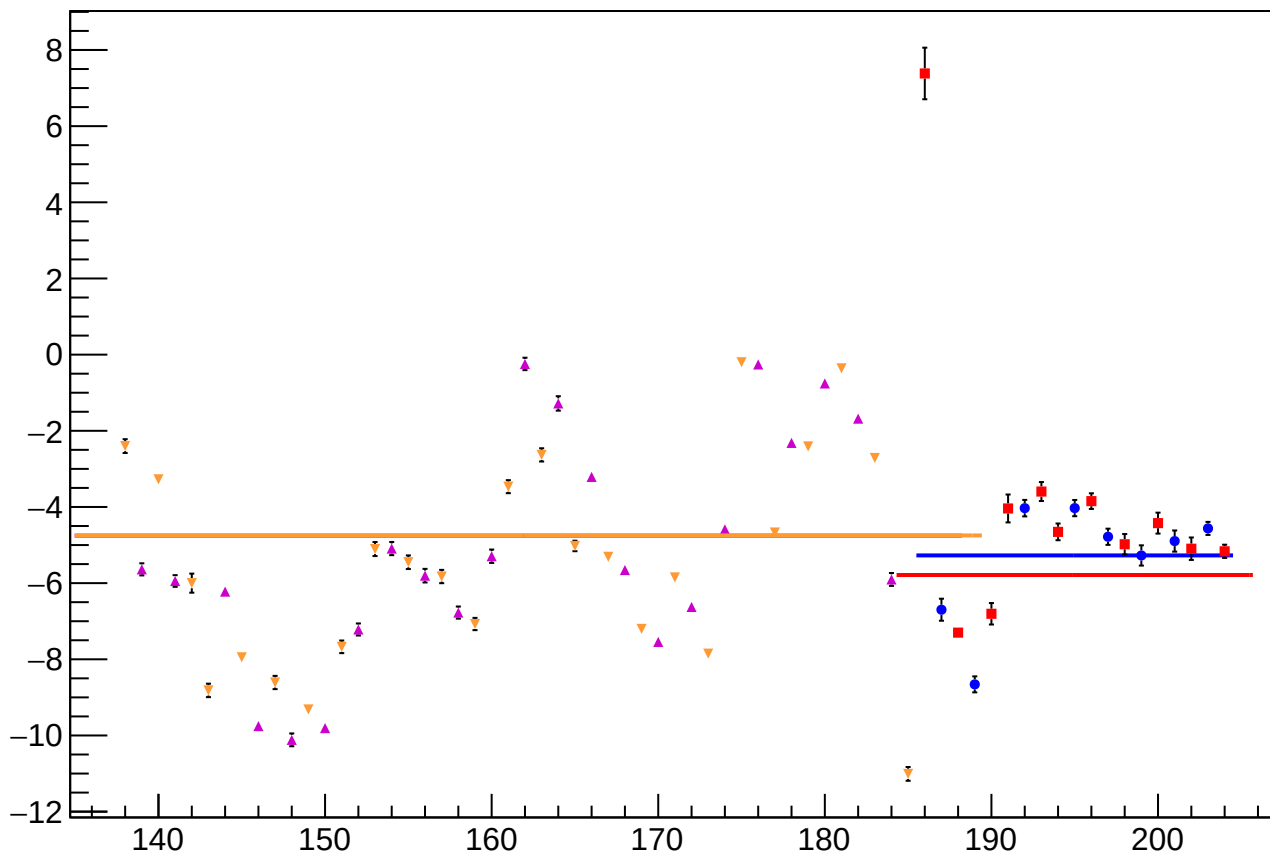
reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.018 ± 0.102 $\chi^2/\text{NDF}: 2466.8/7$
 Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$
 Right Out: 14.747 ± 0.084 $\chi^2/\text{NDF}: 9597.8/10$
 Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$
 Right: 15.266 ± 0.065 $\chi^2/\text{NDF}: 12157.2/18$
 In: 0.395 ± 0.021 $\chi^2/\text{NDF}: 40468.3/30$
 Out: 0.511 ± 0.020 $\chi^2/\text{NDF}: 52312.3/35$
 All: 0.455 ± 0.014 $\chi^2/\text{NDF}: 92796.9/66$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.272 ± 0.079 χ^2/NDF : 374.6/7
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.786 ± 0.060 χ^2/NDF : 948.8/10
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47

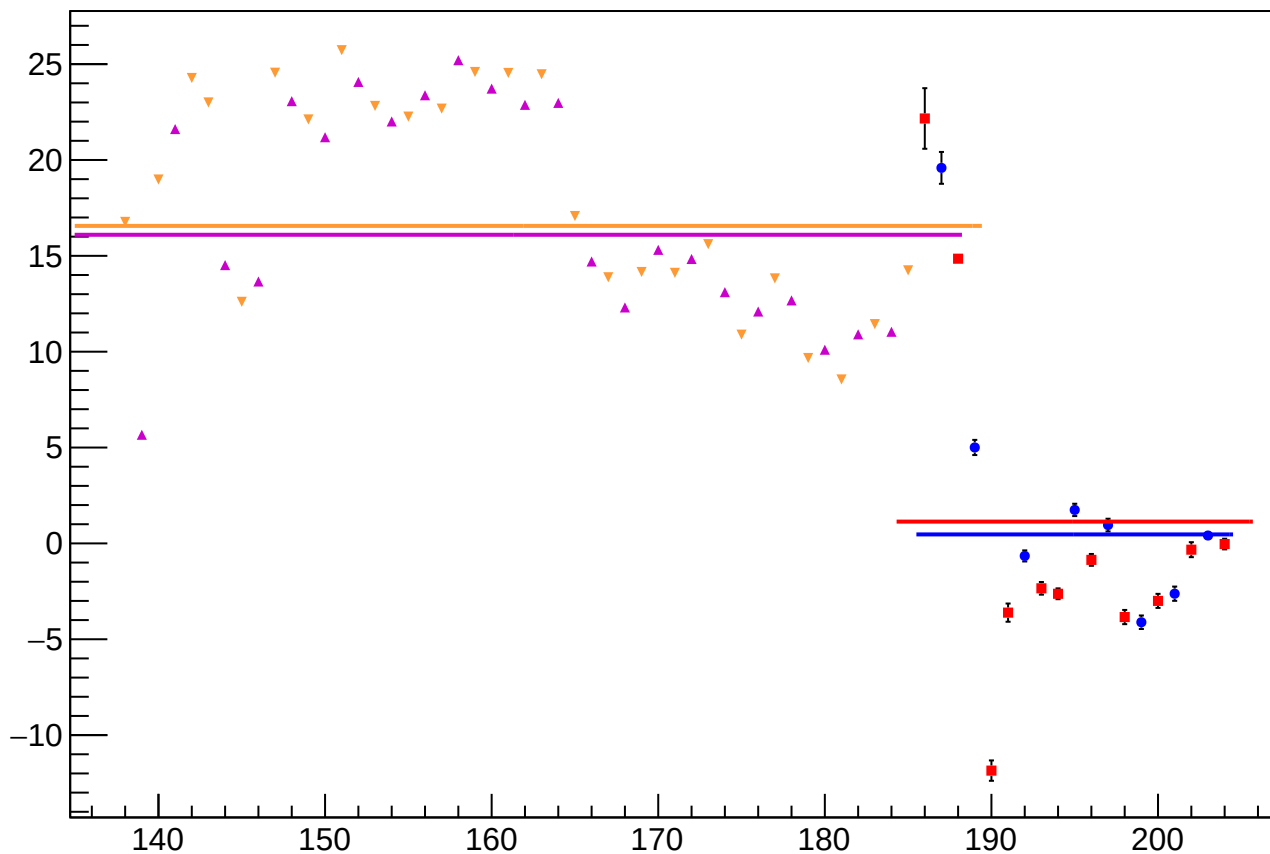
Right: -5.599 ± 0.048 χ^2/NDF : 1350.6/18

In: -4.805 ± 0.025 χ^2/NDF : 14532.9/30

Out: -4.912 ± 0.024 χ^2/NDF : 14493.7/35

All: -4.861 ± 0.017 χ^2/NDF : 29036.4/66

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.469 ± 0.121 $\chi^2/\text{NDF}: 931.6/7$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.137 ± 0.104 $\chi^2/\text{NDF}: 4981.5/10$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

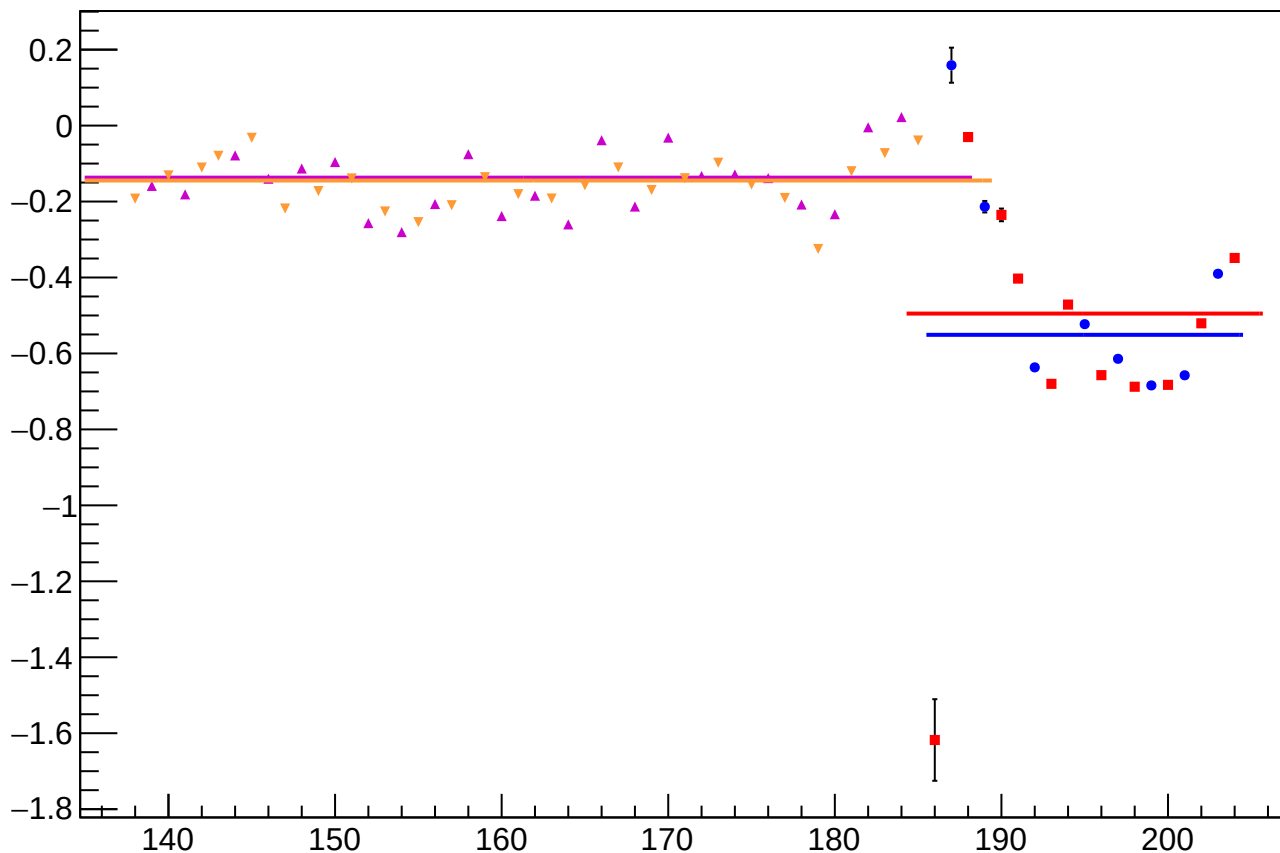
Right: 0.853 ± 0.079 $\chi^2/\text{NDF}: 5930.8/18$

In: 15.525 ± 0.023 $\chi^2/\text{NDF}: 59428.8/30$

Out: 15.830 ± 0.023 $\chi^2/\text{NDF}: 79940.8/35$

All: 15.681 ± 0.016 $\chi^2/\text{NDF}: 139458.7/66$

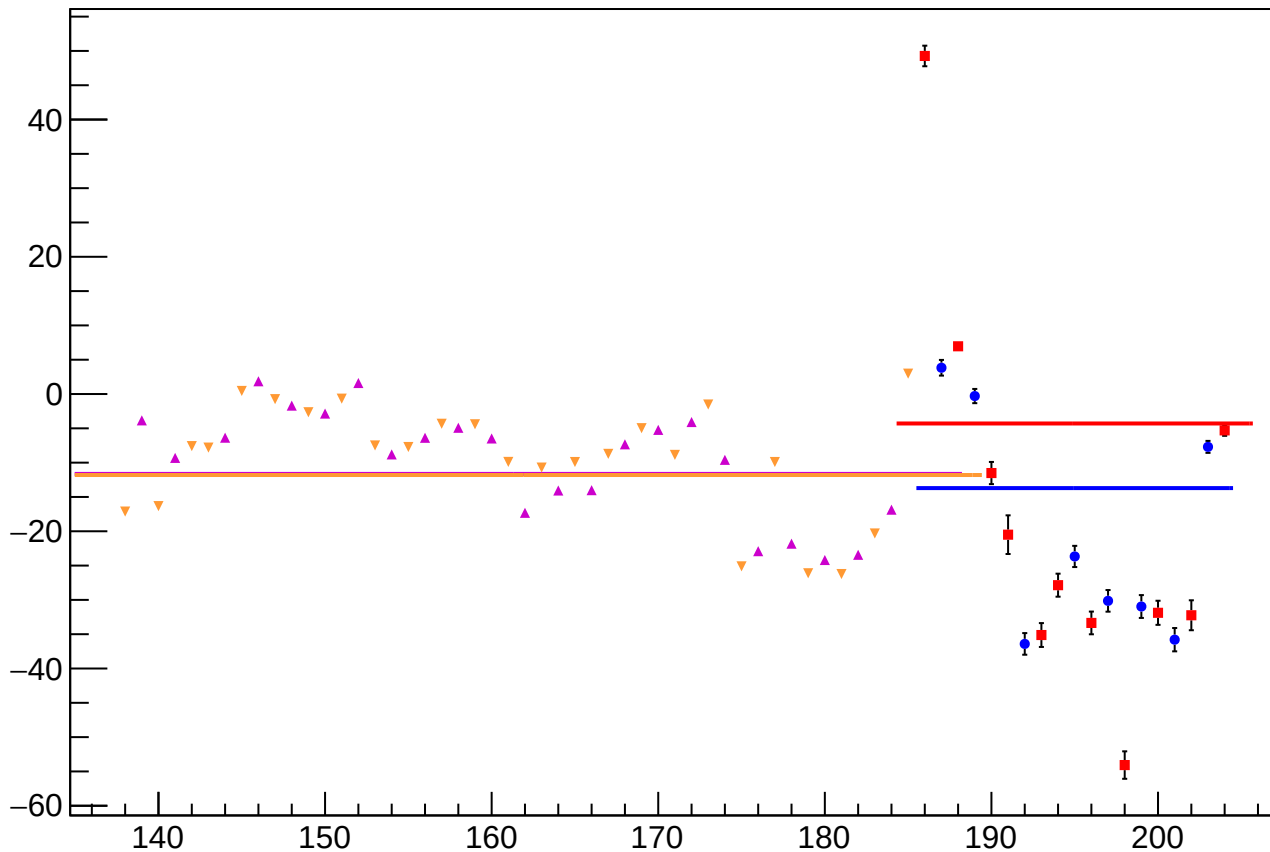
reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.551 ± 0.004 $\chi^2/\text{NDF}: 1417.2/7$
 Left Out: -0.145 ± 0.001 $\chi^2/\text{NDF}: 3769.7/24$
 Right Out: -0.495 ± 0.003 $\chi^2/\text{NDF}: 3799.1/10$
 Left In: -0.137 ± 0.001 $\chi^2/\text{NDF}: 5392.6/22$

Left: -0.141 ± 0.001 $\chi^2/\text{NDF}: 9187.6/47$
 Right: -0.519 ± 0.003 $\chi^2/\text{NDF}: 5333.5/18$
 In: -0.166 ± 0.001 $\chi^2/\text{NDF}: 17343.7/30$
 Out: -0.175 ± 0.001 $\chi^2/\text{NDF}: 17241.9/35$
 All: -0.171 ± 0.001 $\chi^2/\text{NDF}: 34624.8/66$

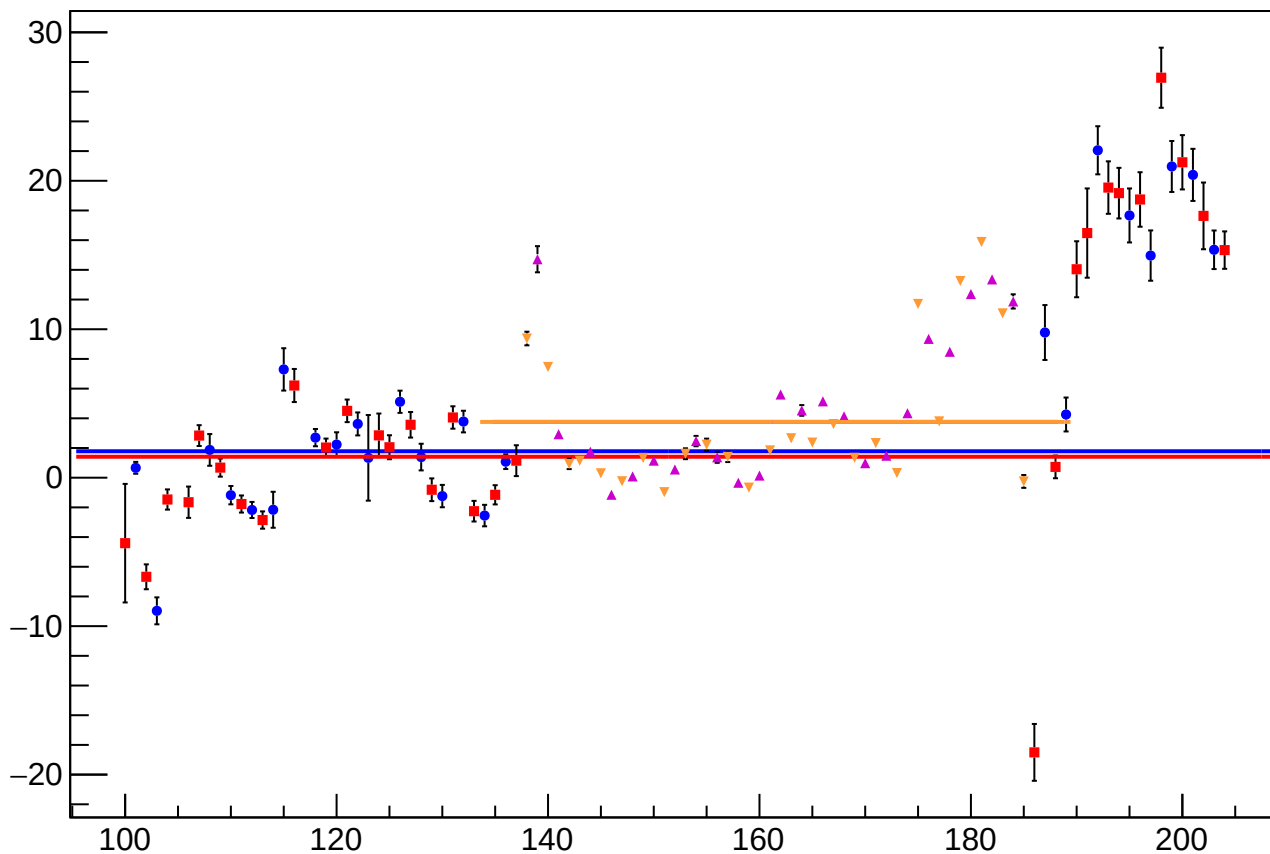
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.709 ± 0.450 $\chi^2/\text{NDF}: 1084.6/7$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.292 ± 0.357 $\chi^2/\text{NDF}: 3618.3/10$
 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: -7.928 ± 0.280 $\chi^2/\text{NDF}: 4971.9/18$
 In: -11.693 ± 0.071 $\chi^2/\text{NDF}: 15226.4/30$
 Out: -11.521 ± 0.069 $\chi^2/\text{NDF}: 21353.1/35$
 All: -11.605 ± 0.049 $\chi^2/\text{NDF}: 36582.5/66$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.780 ± 0.163 $\chi^2/\text{NDF}: 1003.3/24$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.413 ± 0.163 $\chi^2/\text{NDF}: 1252.0/29$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

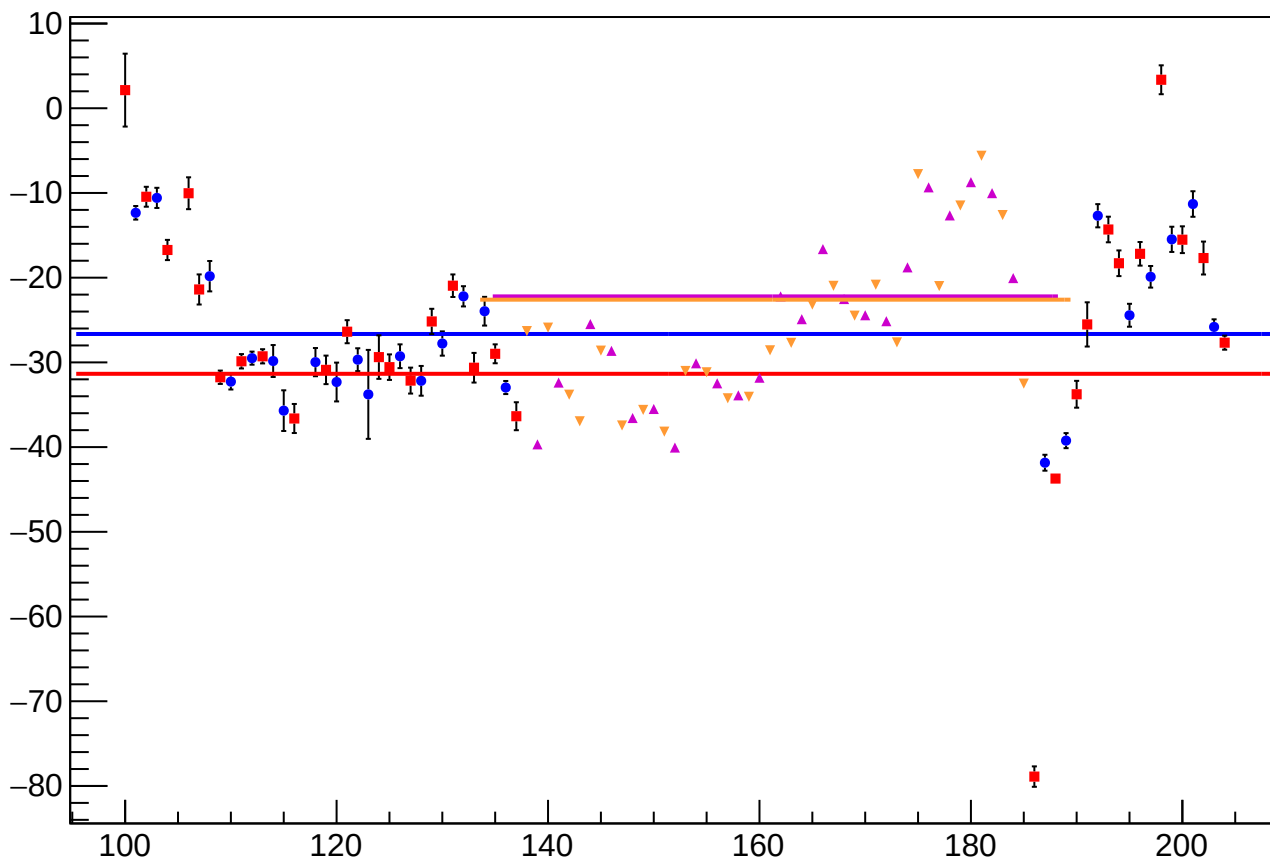
Right: 1.597 ± 0.115 $\chi^2/\text{NDF}: 2257.8/54$

In: 3.544 ± 0.053 $\chi^2/\text{NDF}: 6764.4/47$

Out: 3.514 ± 0.053 $\chi^2/\text{NDF}: 8886.9/54$

All: 3.529 ± 0.037 $\chi^2/\text{NDF}: 15651.4/102$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -22.406 ± 0.050 $\chi^2/\text{NDF} = 37575.6/47$

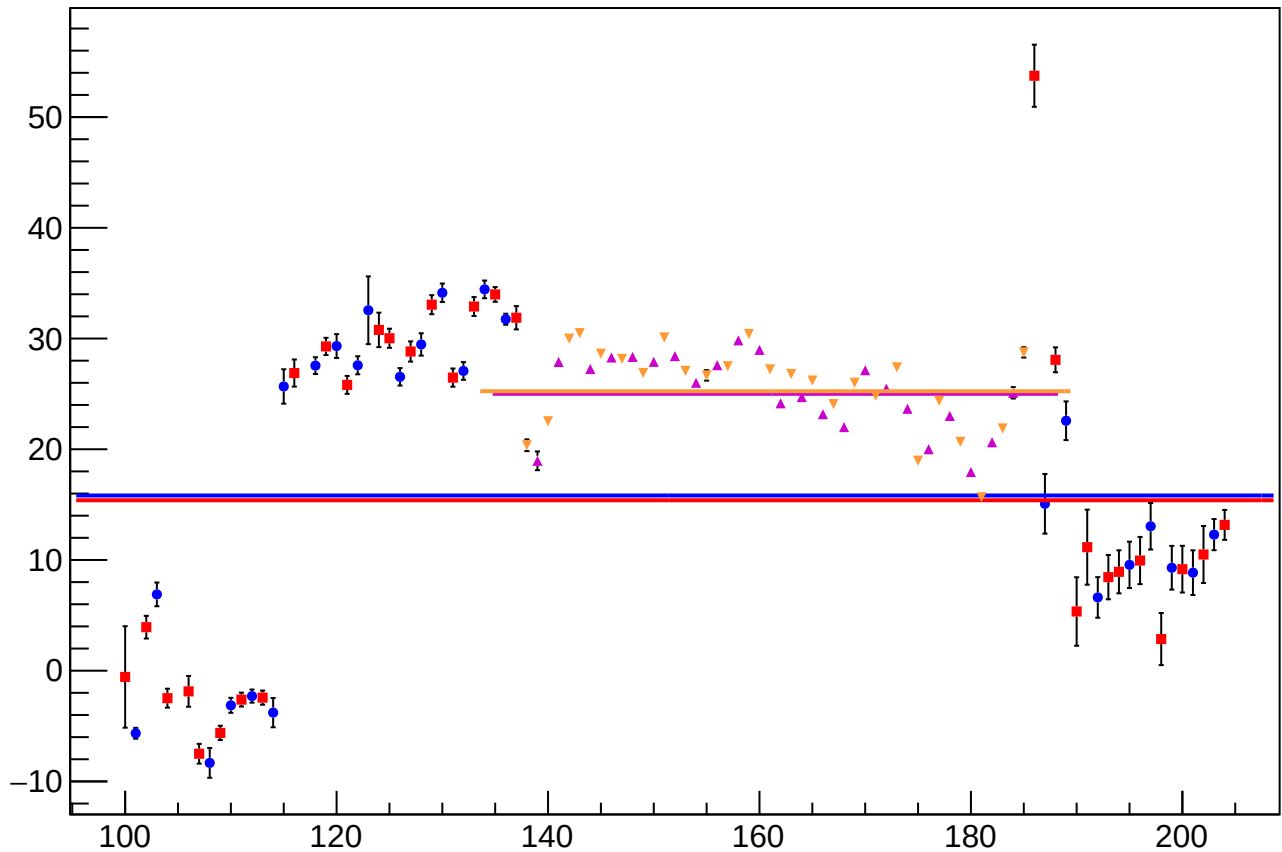
Right: -29.264 ± 0.160 $\chi^2/\text{NDF} = 5743.2/54$

In: -22.570 ± 0.069 $\chi^2/\text{NDF} = 19393.1/47$

Out: -23.453 ± 0.067 $\chi^2/\text{NDF} = 25507.9/54$

All: -23.021 ± 0.048 $\chi^2/\text{NDF} = 44985.5/102$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.824 $\pm$ 0.185 χ^2 /NDF: 7624.5/24

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF: 3786.5/24

Right Out: 15.393 $\pm$ 0.187 χ^2 /NDF: 7660.8/29

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF: 2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

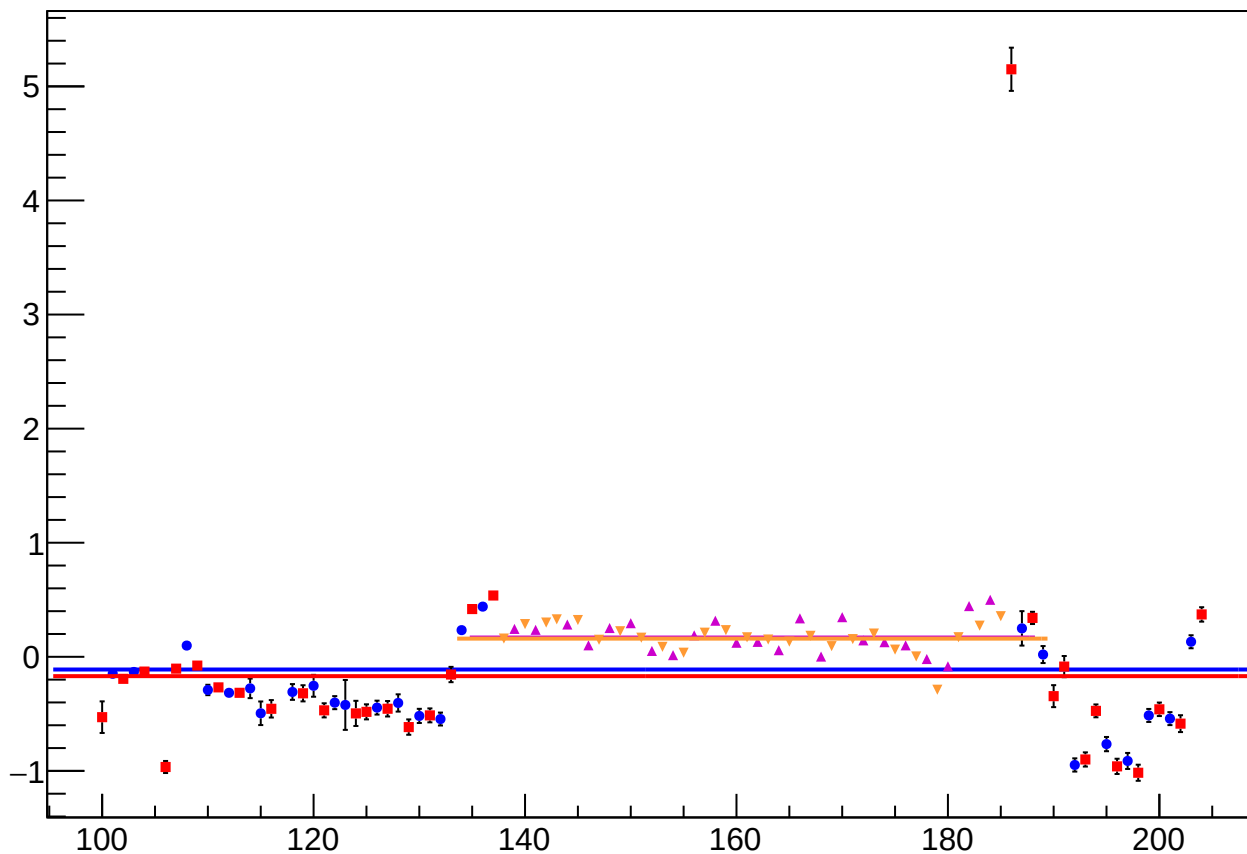
Right: 15.611 $\pm$ 0.131 χ^2 /NDF: 15288.0/54

In: 24.031 $\pm$ 0.060 χ^2 /NDF: 12550.7/47

Out: 24.248 $\pm$ 0.059 χ^2 /NDF: 13943.1/54

All: 24.141 $\pm$ 0.042 χ^2 /NDF: 26500.4/102

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.111 ± 0.009 χ^2/NDF : 1648.9/24

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.170 ± 0.009 χ^2/NDF : 2636.4/29

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

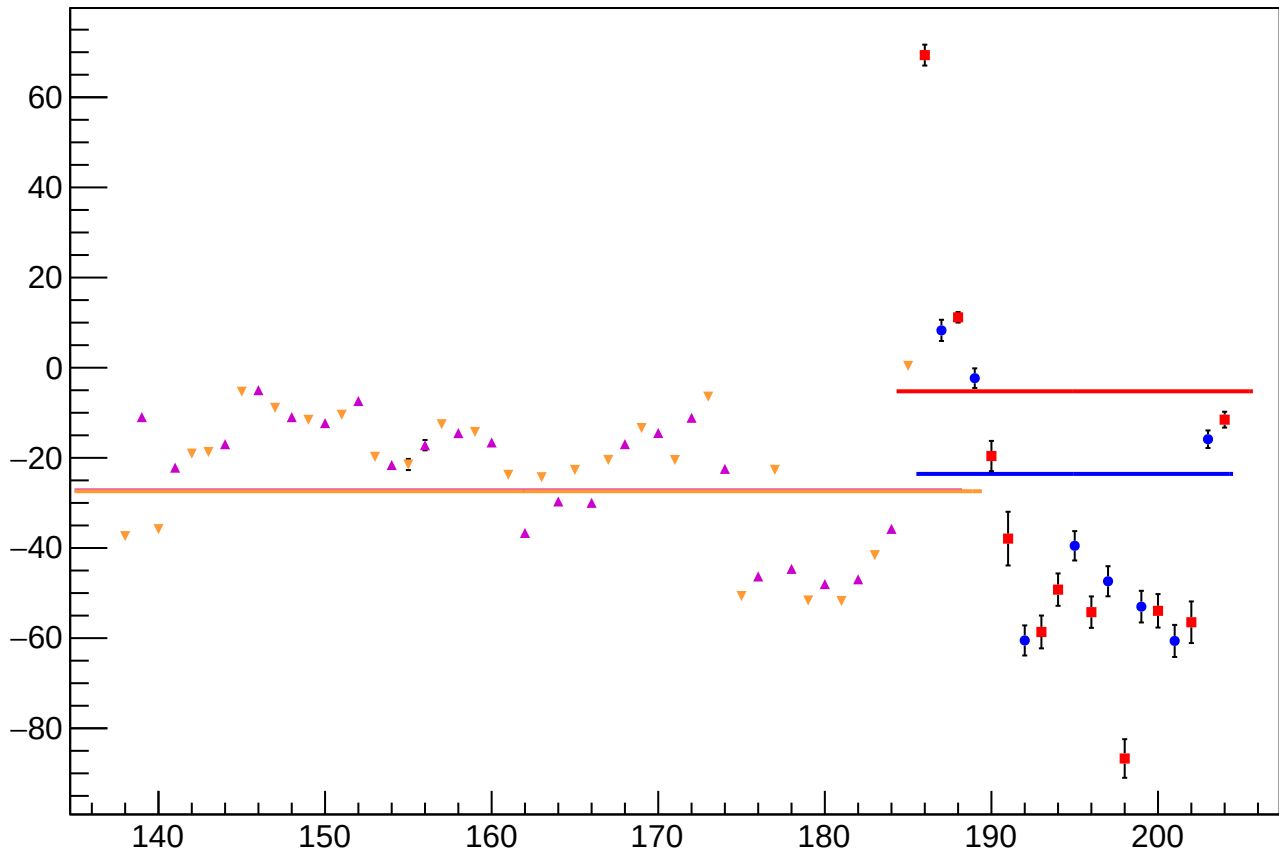
Right: -0.141 ± 0.007 χ^2/NDF : 4304.6/54

In: 0.144 ± 0.003 χ^2/NDF : 4874.5/47

Out: 0.131 ± 0.003 χ^2/NDF : 5645.3/54

All: 0.137 ± 0.002 χ^2/NDF : 10532.1/102

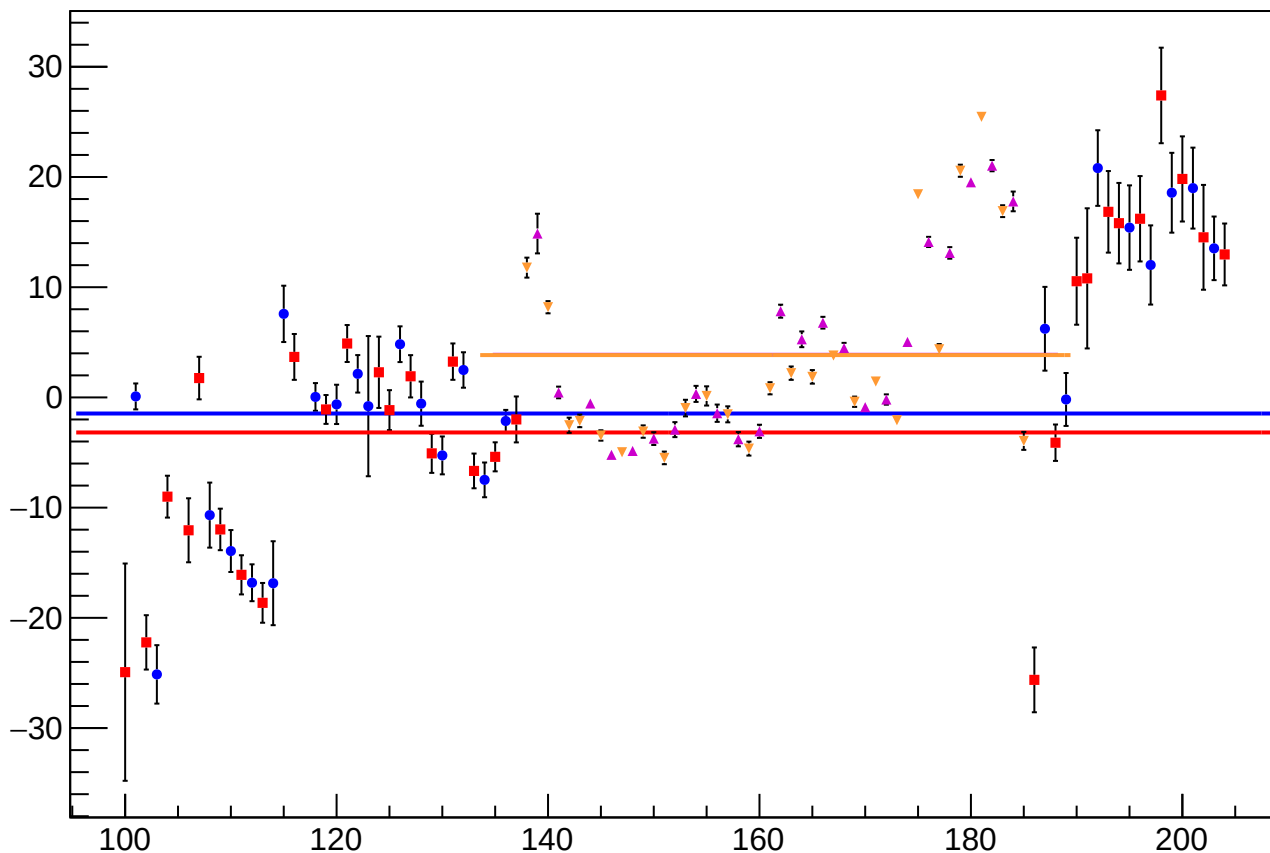
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.562 ± 0.958 $\chi^2/\text{NDF}: 670.7/7$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.237 ± 0.750 $\chi^2/\text{NDF}: 2516.1/10$
 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: -12.207 ± 0.591 $\chi^2/\text{NDF}: 3413.7/18$
 In: -27.167 ± 0.138 $\chi^2/\text{NDF}: 11990.4/30$
 Out: -26.694 ± 0.135 $\chi^2/\text{NDF}: 18211.8/35$
 All: -26.925 ± 0.096 $\chi^2/\text{NDF}: 30208.2/66$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.460 ± 0.388 $\chi^2/\text{NDF}: 463.3/24$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -3.180 ± 0.390 $\chi^2/\text{NDF}: 599.0/29$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

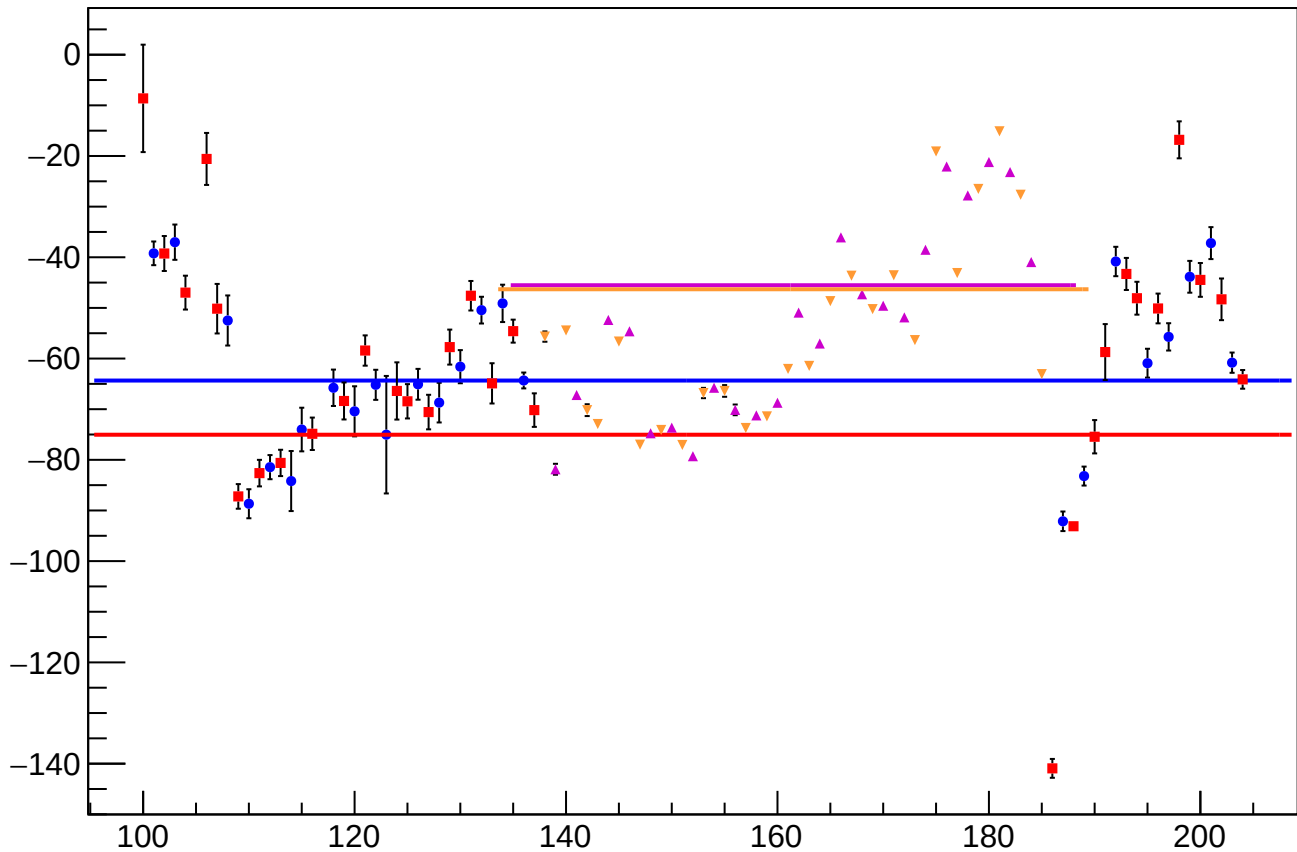
Right: -2.314 ± 0.275 $\chi^2/\text{NDF}: 1072.0/54$

In: 3.462 ± 0.107 $\chi^2/\text{NDF}: 6061.5/47$

Out: 3.332 ± 0.105 $\chi^2/\text{NDF}: 7838.0/54$

All: 3.396 ± 0.075 $\chi^2/\text{NDF}: 13900.3/102$

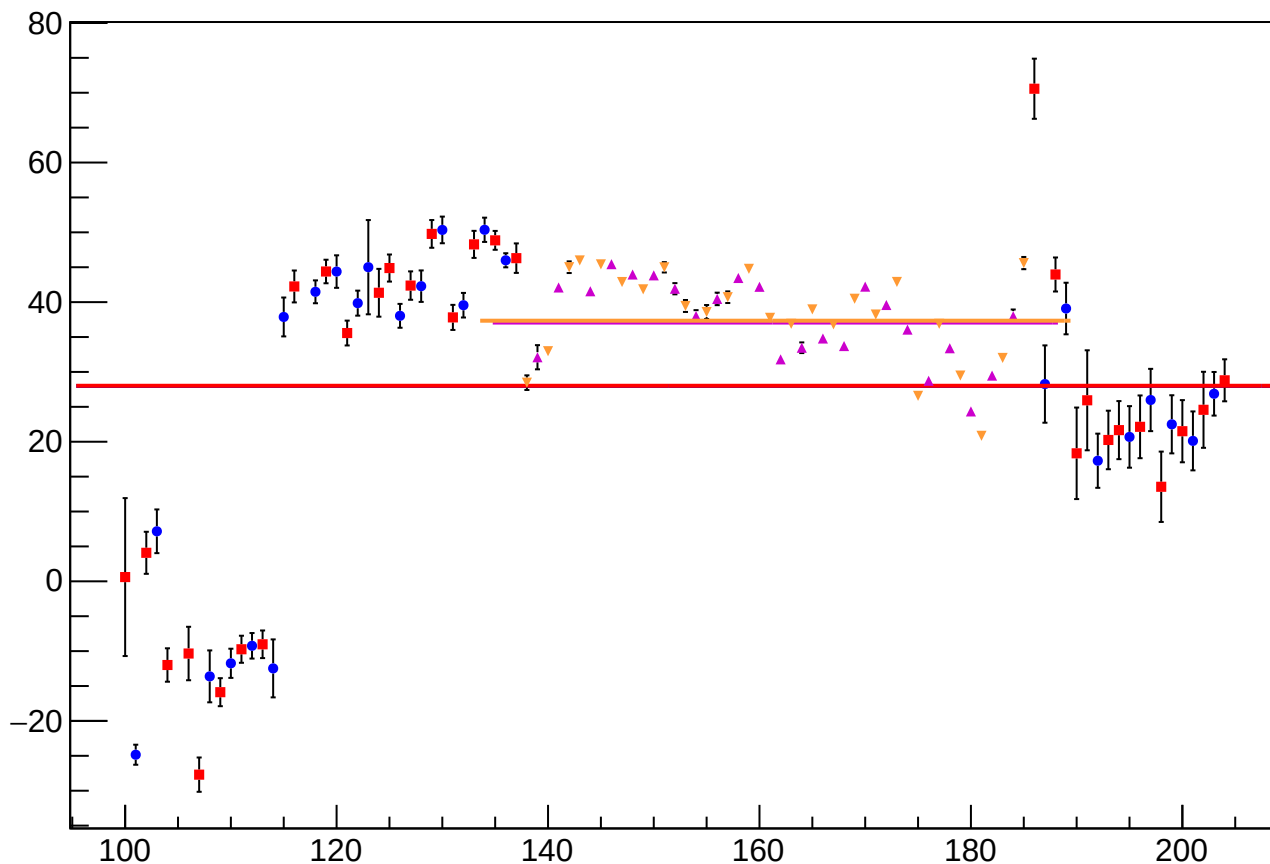
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.344 ± 0.559 χ^2/NDF : 877.5/24
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -75.042 ± 0.491 χ^2/NDF : 2928.4/29
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -70.379 ± 0.369 χ^2/NDF : 4012.7/54
 In: -46.630 ± 0.136 χ^2/NDF : 19470.6/47
 Out: -48.417 ± 0.133 χ^2/NDF : 26232.9/54
 All: -47.542 ± 0.095 χ^2/NDF : 45792.2/102

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 27.984+/-0.439 χ^2/NDF : 3336.1/24

Left Out: 37.340+/-0.123 χ^2/NDF :3149.1/24

Right Out: 28.017+/-0.447 χ^2/NDF : 3194.1/29

Left In: 37.074+/-0.125 χ^2/NDF :2397.3/22

Left: 37.209+/-0.088 χ^2/NDF : 5548.7/47

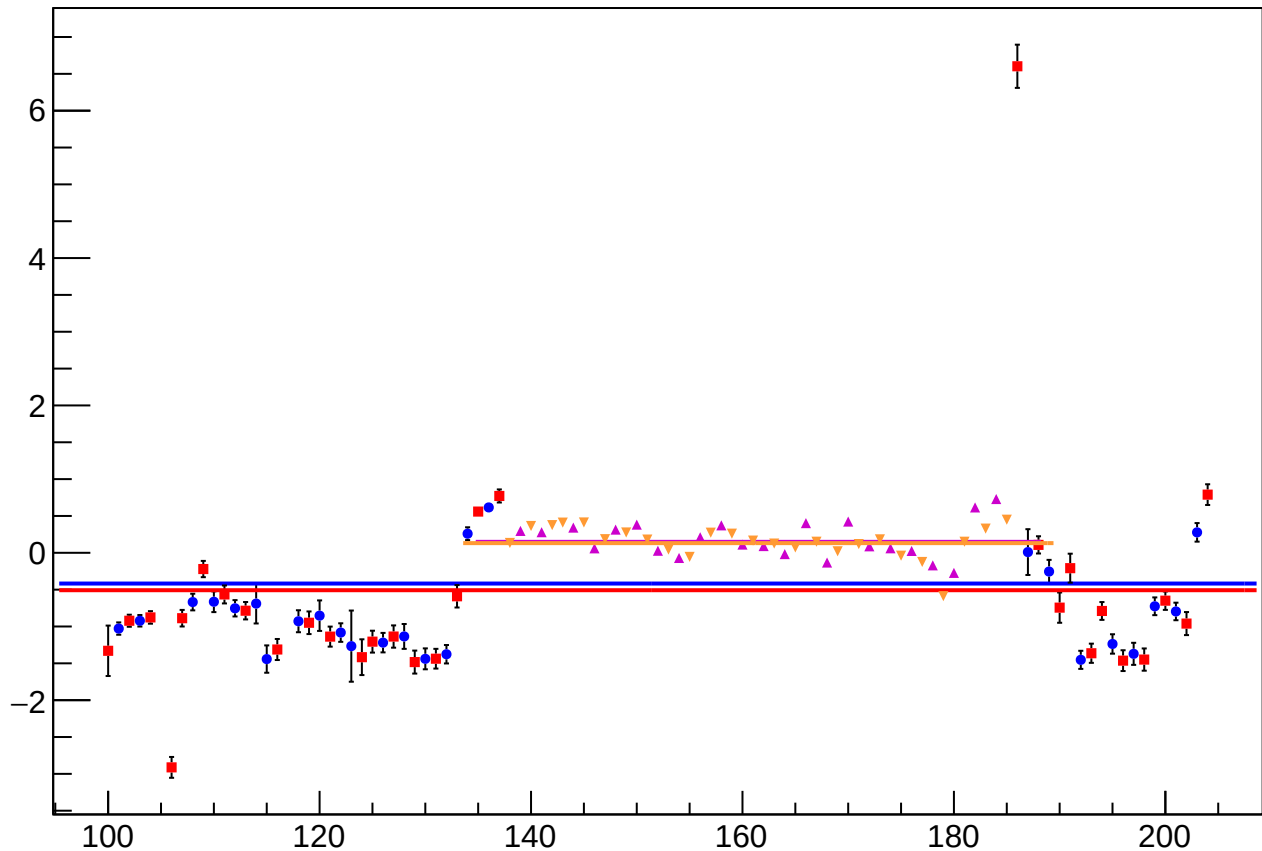
Right: 28.000+/-0.313 χ^2/NDF : 6530.2/54

In: 36.389+/-0.120 χ^2/NDF :6130.6/47

Out: 36.684+/-0.118 χ^2/NDF :6748.1/54

All: 36.539+/-0.084 χ^2/NDF : 12881.7/102

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.417 ± 0.022 $\chi^2/\text{NDF}: 1225.0/24$

Left Out: 0.131 ± 0.006 $\chi^2/\text{NDF}: 1426.3/24$

Right Out: -0.508 ± 0.022 $\chi^2/\text{NDF}: 2006.8/29$

Left In: 0.149 ± 0.006 $\chi^2/\text{NDF}: 1803.6/22$

Left: 0.140 ± 0.004 $\chi^2/\text{NDF}: 3234.6/47$

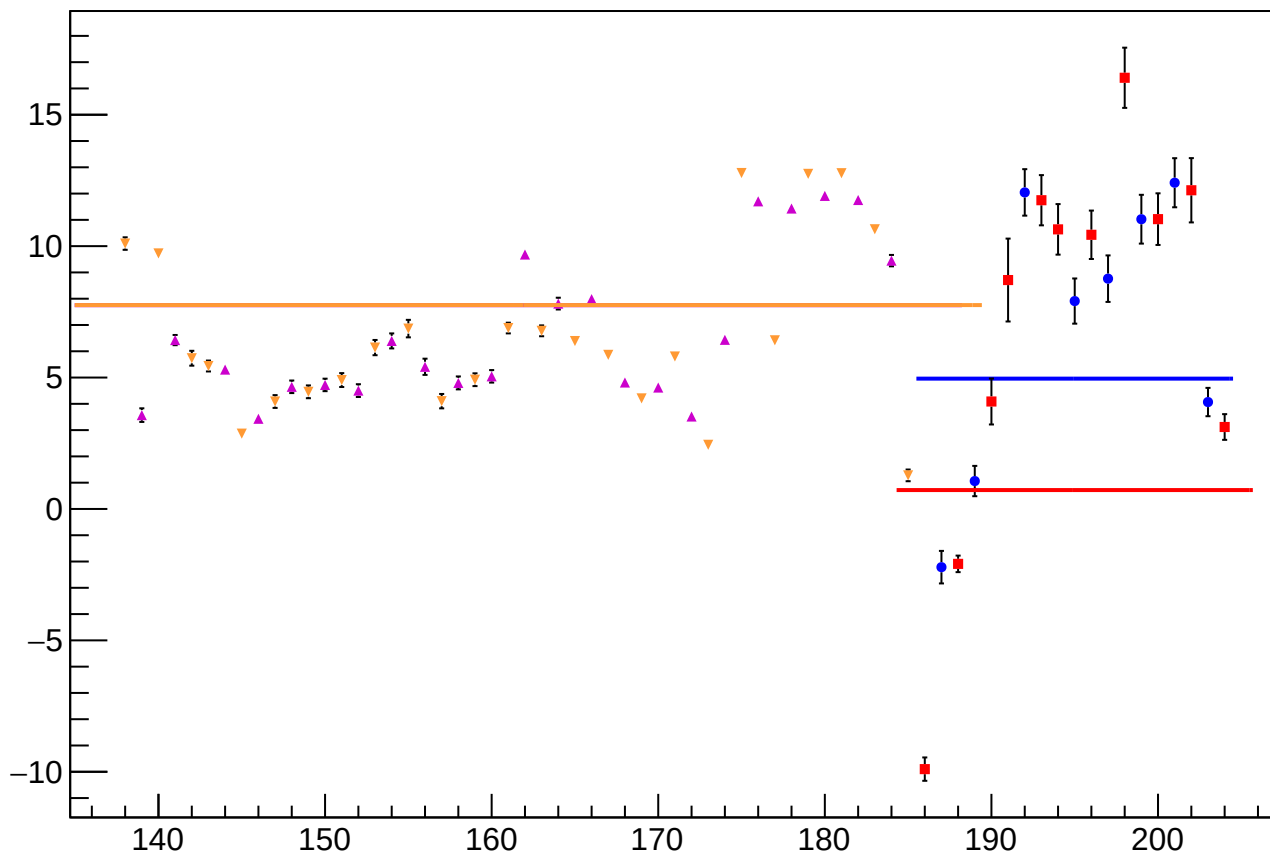
Right: -0.462 ± 0.016 $\chi^2/\text{NDF}: 3240.0/54$

In: 0.113 ± 0.006 $\chi^2/\text{NDF}: 3636.4/47$

Out: 0.093 ± 0.005 $\chi^2/\text{NDF}: 4206.7/54$

All: 0.103 ± 0.004 $\chi^2/\text{NDF}: 7850.0/102$

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.959 ± 0.256 $\chi^2/\text{NDF}: 383.6/7$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 0.719 ± 0.193 $\chi^2/\text{NDF}: 1451.1/10$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

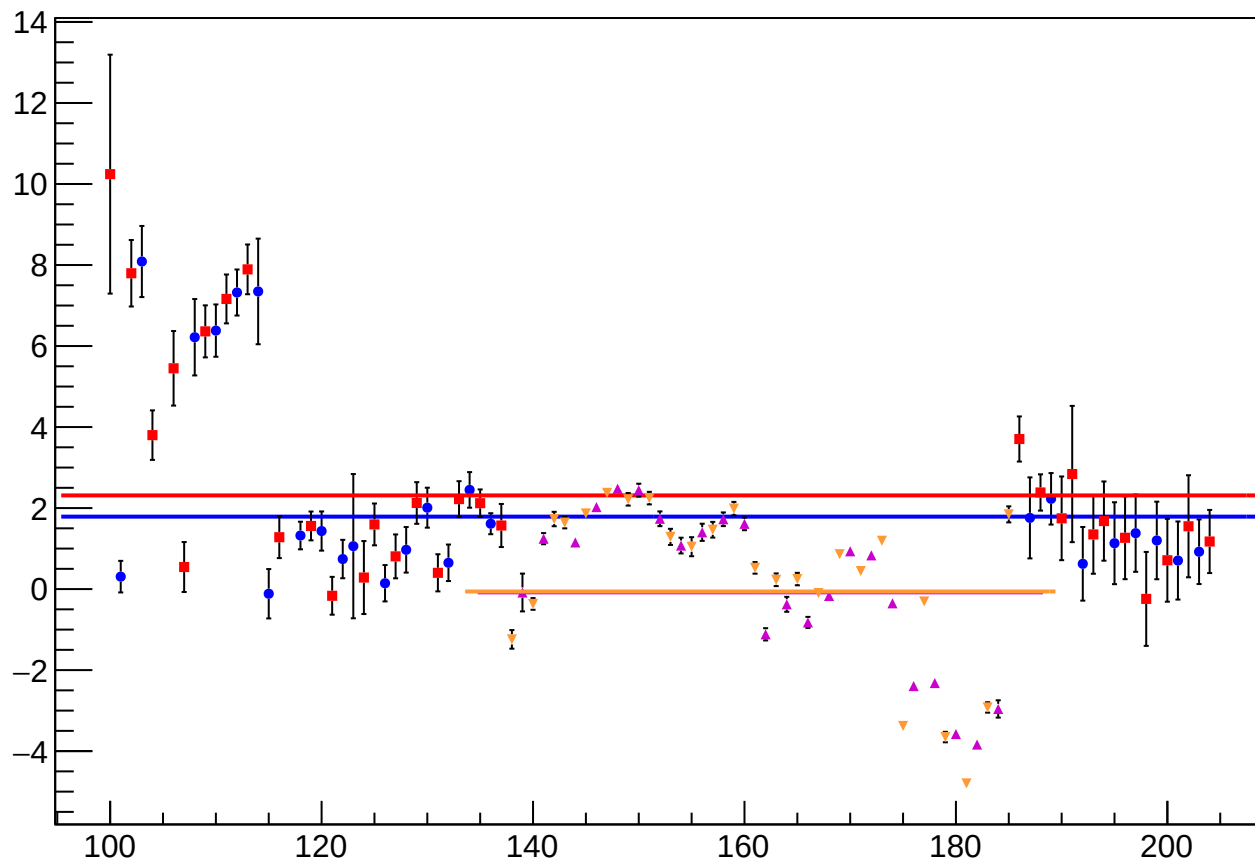
Right: 2.255 ± 0.154 $\chi^2/\text{NDF}: 2009.8/18$

In: 7.701 ± 0.035 $\chi^2/\text{NDF}: 8845.8/30$

Out: 7.541 ± 0.034 $\chi^2/\text{NDF}: 14470.5/35$

All: 7.619 ± 0.024 $\chi^2/\text{NDF}: 23327.2/66$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.789 ± 0.110 $\chi^2/\text{NDF}: 299.1/24$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.312 ± 0.110 $\chi^2/\text{NDF}: 354.7/29$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

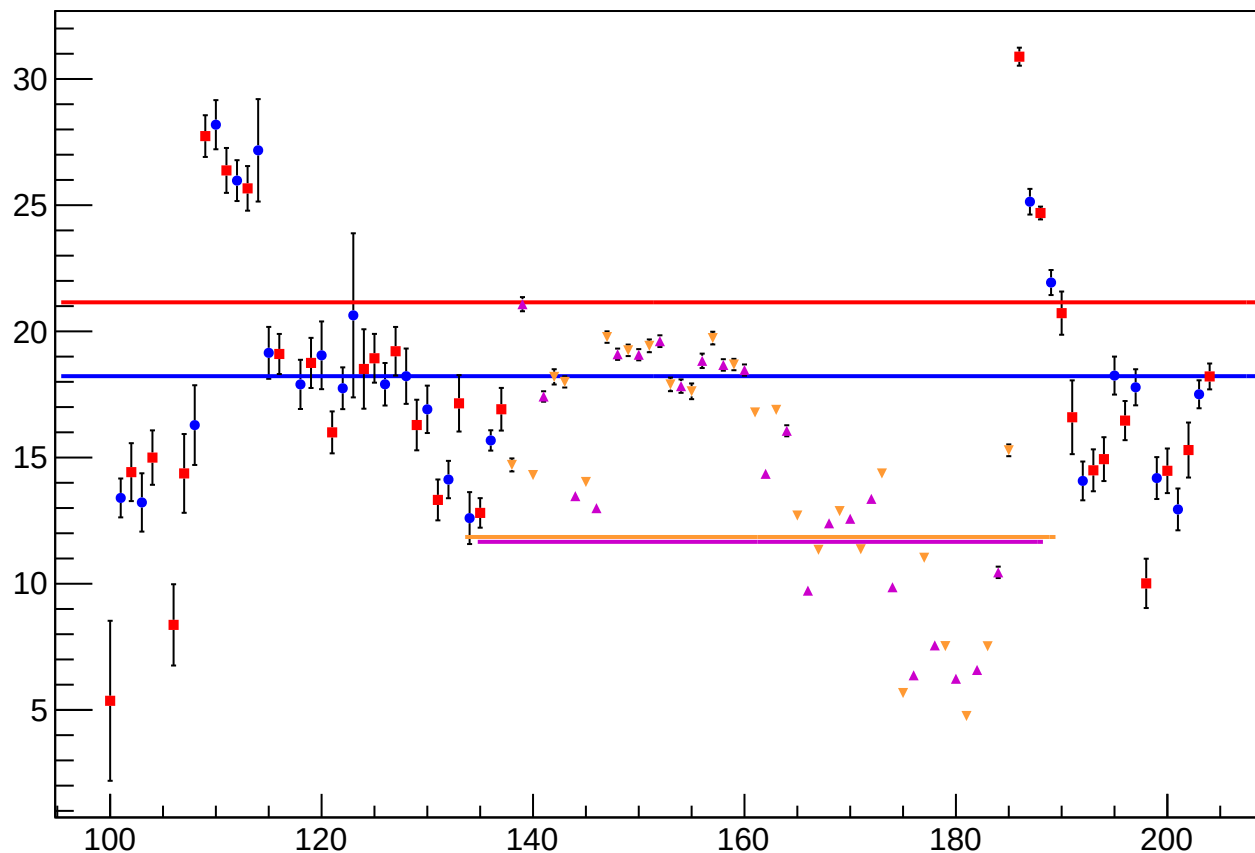
Right: 2.050 ± 0.078 $\chi^2/\text{NDF}: 665.2/54$

In: 0.036 ± 0.027 $\chi^2/\text{NDF}: 5551.0/47$

Out: 0.083 ± 0.027 $\chi^2/\text{NDF}: 6862.0/54$

All: 0.060 ± 0.019 $\chi^2/\text{NDF}: 12414.5/102$

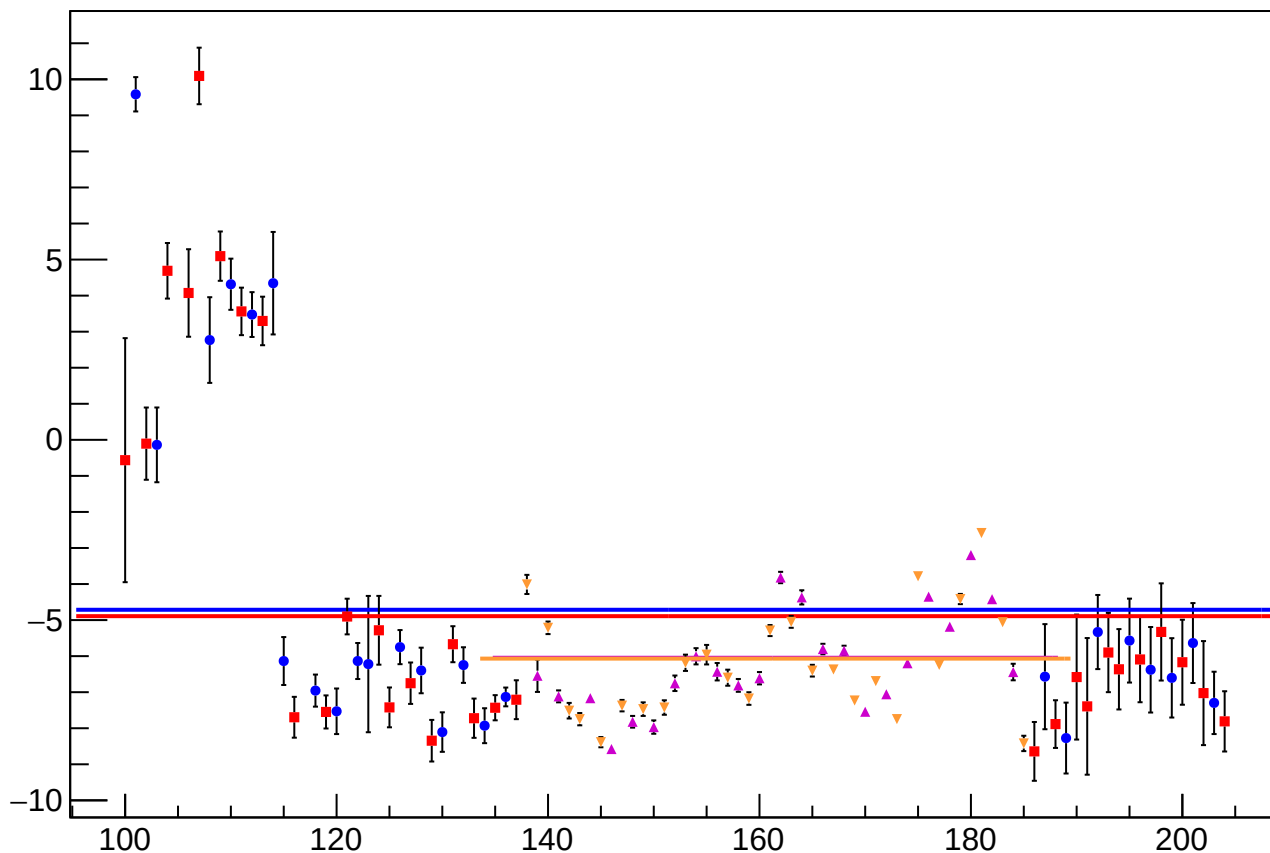
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.225 ± 0.155 χ^2/NDF : 716.0/24
 Left Out: 11.853 ± 0.035 χ^2/NDF : 19149.4/24
 Right Out: 21.150 ± 0.132 χ^2/NDF : 2067.3/29
 Left In: 11.660 ± 0.035 χ^2/NDF : 16710.2/22

Left: 11.758 ± 0.025 χ^2/NDF : 35874.9/47
 Right: 19.921 ± 0.101 χ^2/NDF : 2989.6/54
 In: 11.981 ± 0.034 χ^2/NDF : 19130.2/47
 Out: 12.453 ± 0.034 χ^2/NDF : 25856.7/54
 All: 12.223 ± 0.024 χ^2/NDF : 45083.4/102

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.714 ± 0.124 χ^2/NDF : 1615.8/24

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -4.891 ± 0.126 χ^2/NDF : 1414.0/29

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

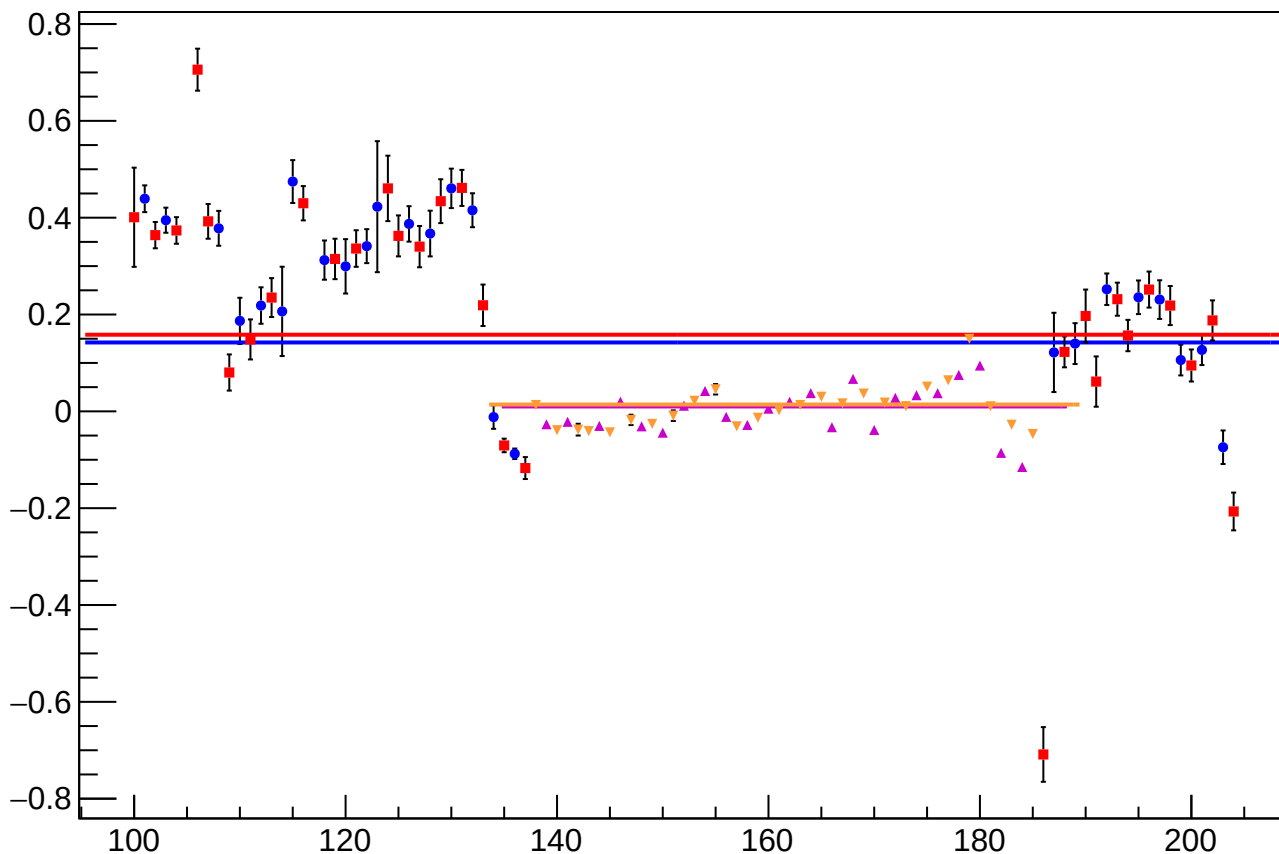
Right: -4.801 ± 0.088 χ^2/NDF : 3030.8/54

In: -5.963 ± 0.031 χ^2/NDF : 4018.4/47

Out: -6.001 ± 0.030 χ^2/NDF : 4168.1/54

All: -5.982 ± 0.022 χ^2/NDF : 8187.3/102

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.006 χ^2 /NDF: 1121.9/24

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.158 $\pm$ 0.006 χ^2 /NDF: 1355.8/29

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

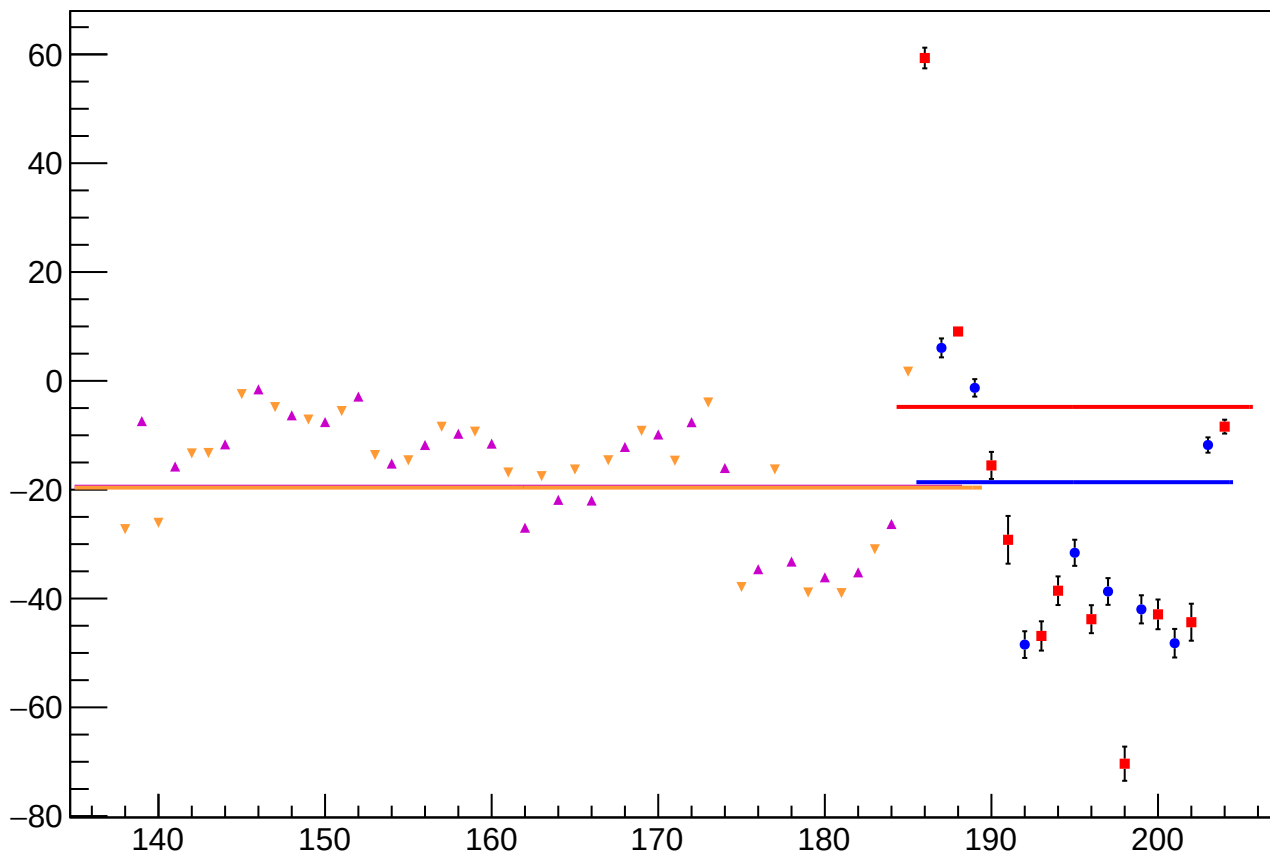
Right: 0.150 $\pm$ 0.004 χ^2 /NDF: 2481.0/54

In: 0.017 $\pm$ 0.001 χ^2 /NDF: 2767.7/47

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2816.1/54

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5588.2/102

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.620 ± 0.703 χ^2/NDF : 793.5/7
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: -4.786 ± 0.554 χ^2/NDF : 2868.8/10
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47

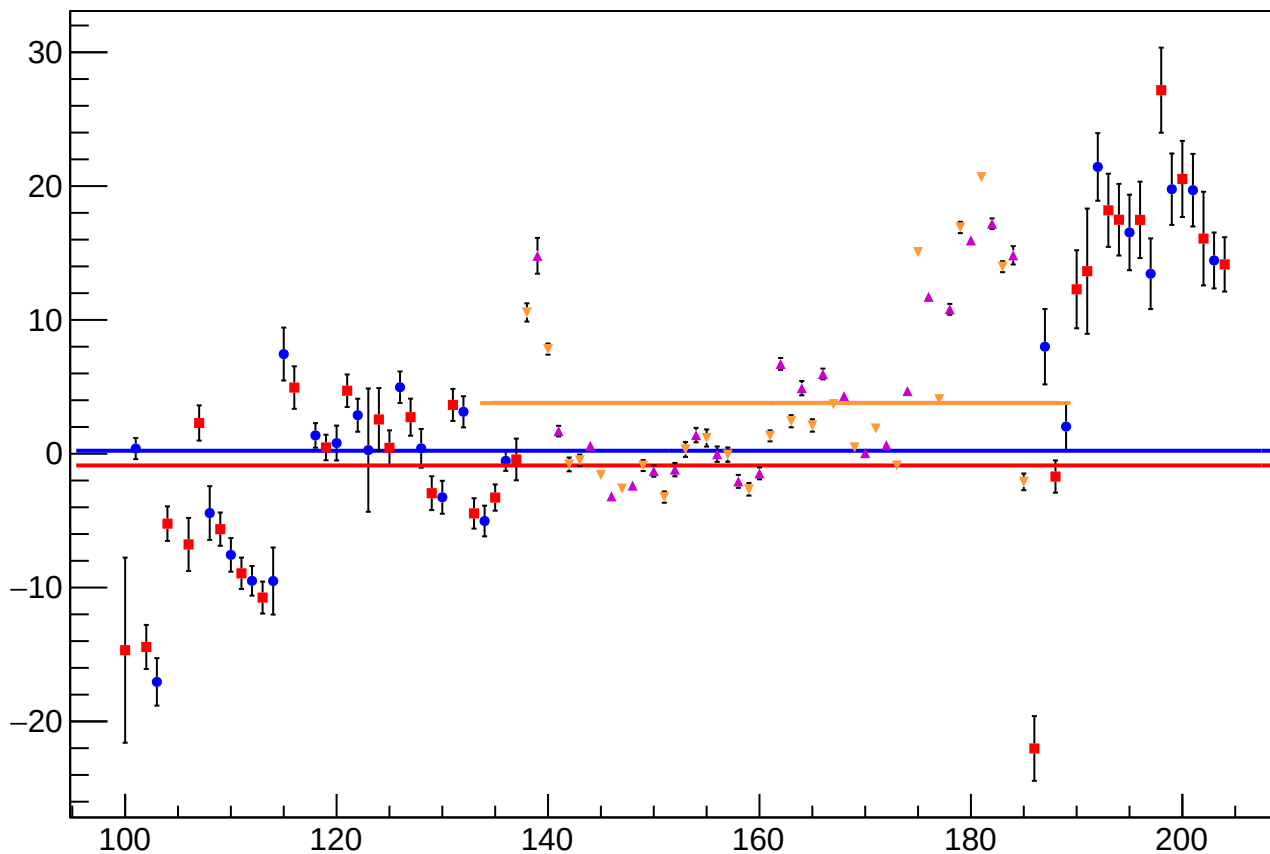
Right: -10.091 ± 0.435 χ^2/NDF : 3901.1/18

In: -19.432 ± 0.104 χ^2/NDF : 13078.0/30

Out: -19.116 ± 0.101 χ^2/NDF : 19321.3/35

All: -19.270 ± 0.073 χ^2/NDF : 32404.1/66

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.224 ± 0.277 χ^2/NDF : 592.0/24

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -0.873 ± 0.279 χ^2/NDF : 764.2/29

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

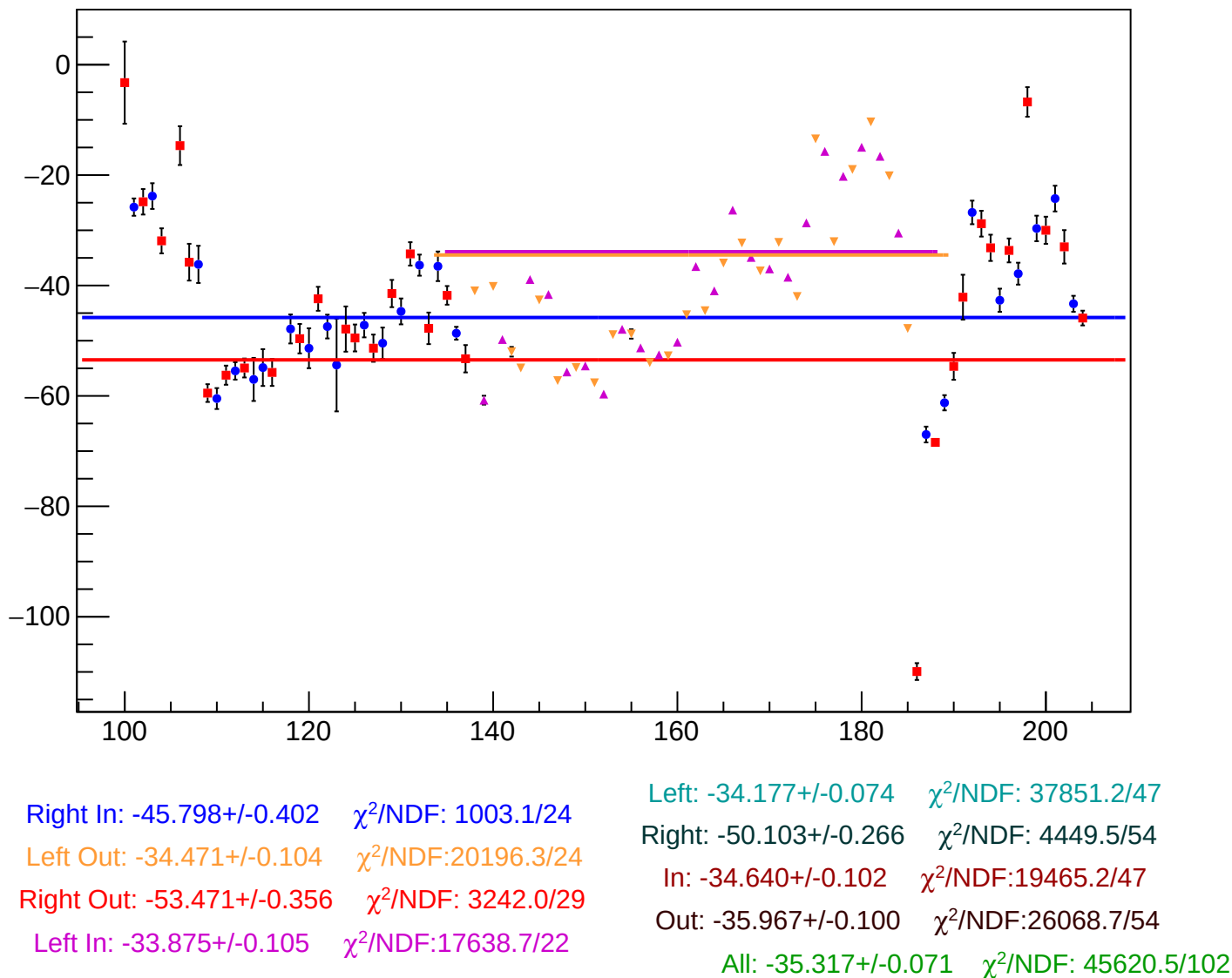
Right: -0.321 ± 0.196 χ^2/NDF : 1364.0/54

In: 3.500 ± 0.080 χ^2/NDF : 6261.6/47

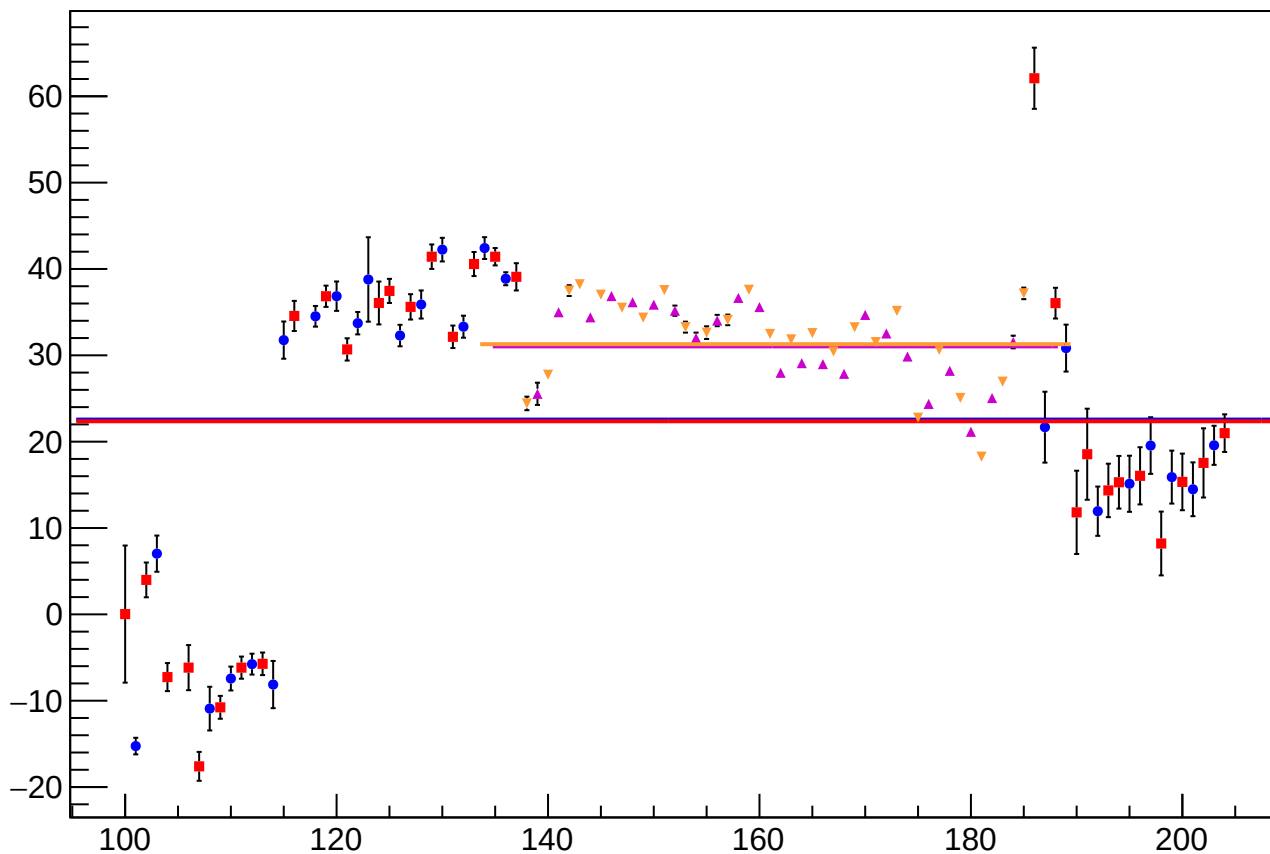
Out: 3.416 ± 0.079 χ^2/NDF : 8172.1/54

All: 3.458 ± 0.056 χ^2/NDF : 14434.2/102

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.557 $\pm$ 0.314 χ^2 /NDF: 4360.7/24

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.361 $\pm$ 0.319 χ^2 /NDF: 4257.5/29

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

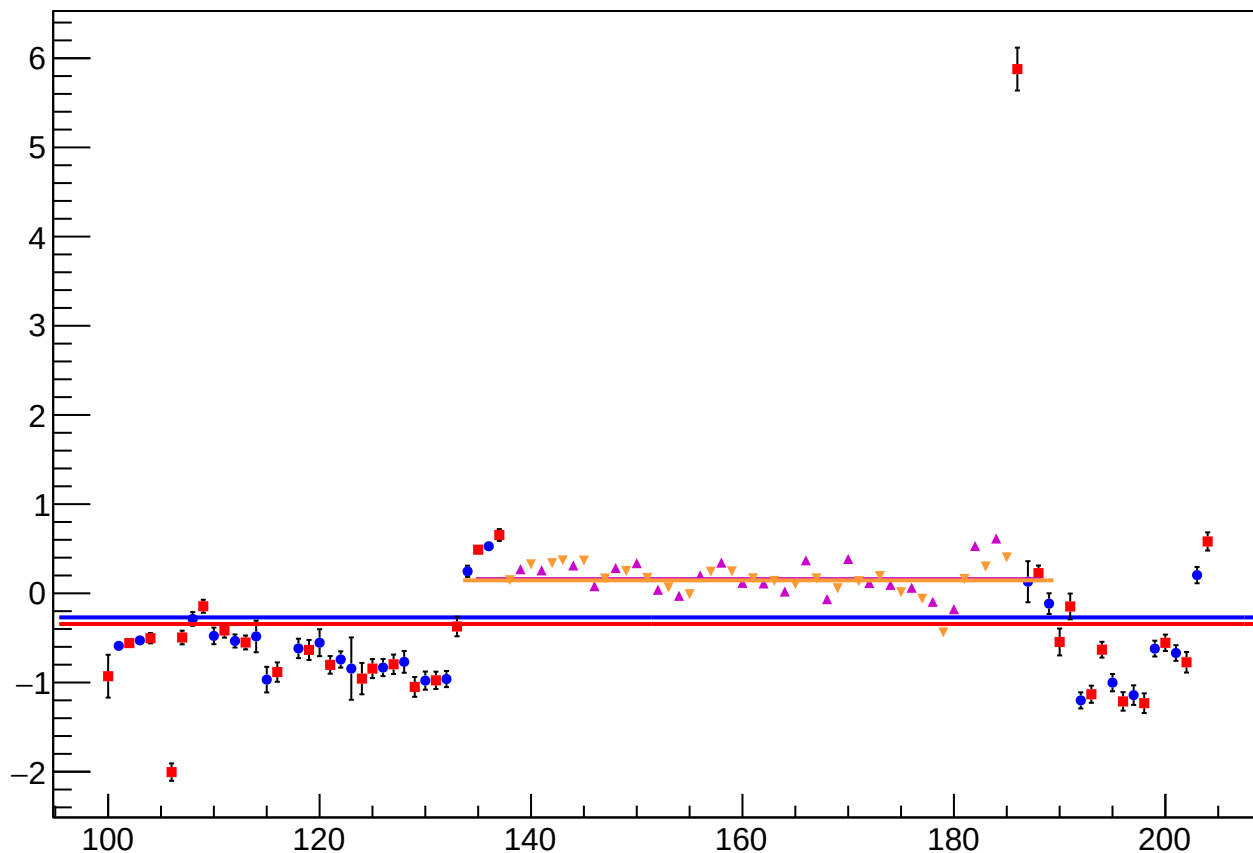
Right: 22.461 $\pm$ 0.224 χ^2 /NDF: 8618.5/54

In: 30.337 $\pm$ 0.090 χ^2 /NDF:7511.8/47

Out: 30.595 $\pm$ 0.089 χ^2 /NDF:8326.3/54

All: 30.468 $\pm$ 0.063 χ^2 /NDF: 15842.2/102

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.270 ± 0.016 $\chi^2/\text{NDF}: 1314.4/24$

Left Out: 0.145 ± 0.004 $\chi^2/\text{NDF}: 1579.6/24$

Right Out: -0.344 ± 0.016 $\chi^2/\text{NDF}: 2207.6/29$

Left In: 0.159 ± 0.004 $\chi^2/\text{NDF}: 2009.8/22$

Left: 0.152 ± 0.003 $\chi^2/\text{NDF}: 3594.3/47$

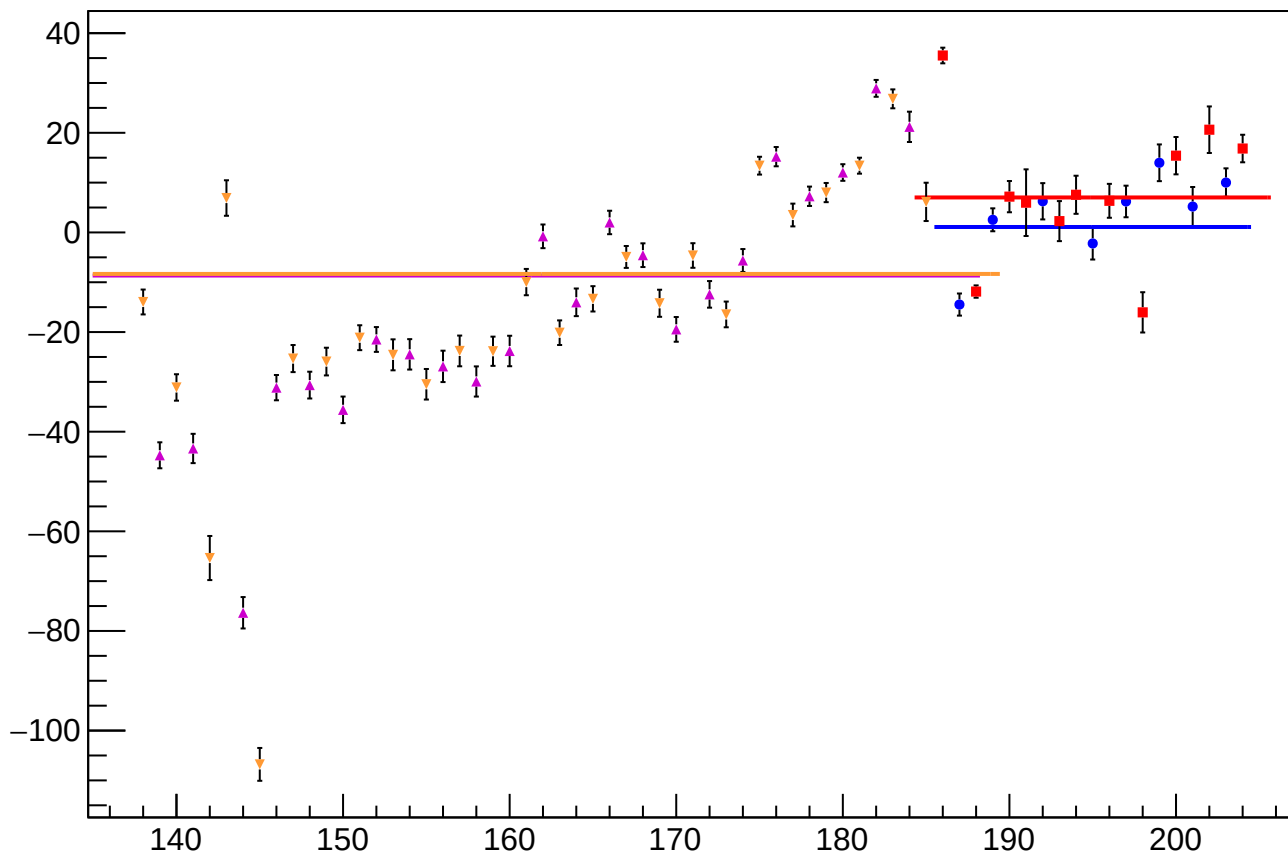
Right: -0.307 ± 0.011 $\chi^2/\text{NDF}: 3533.0/54$

In: 0.130 ± 0.004 $\chi^2/\text{NDF}: 3999.1/47$

Out: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4673.5/54$

All: 0.121 ± 0.003 $\chi^2/\text{NDF}: 8680.8/102$

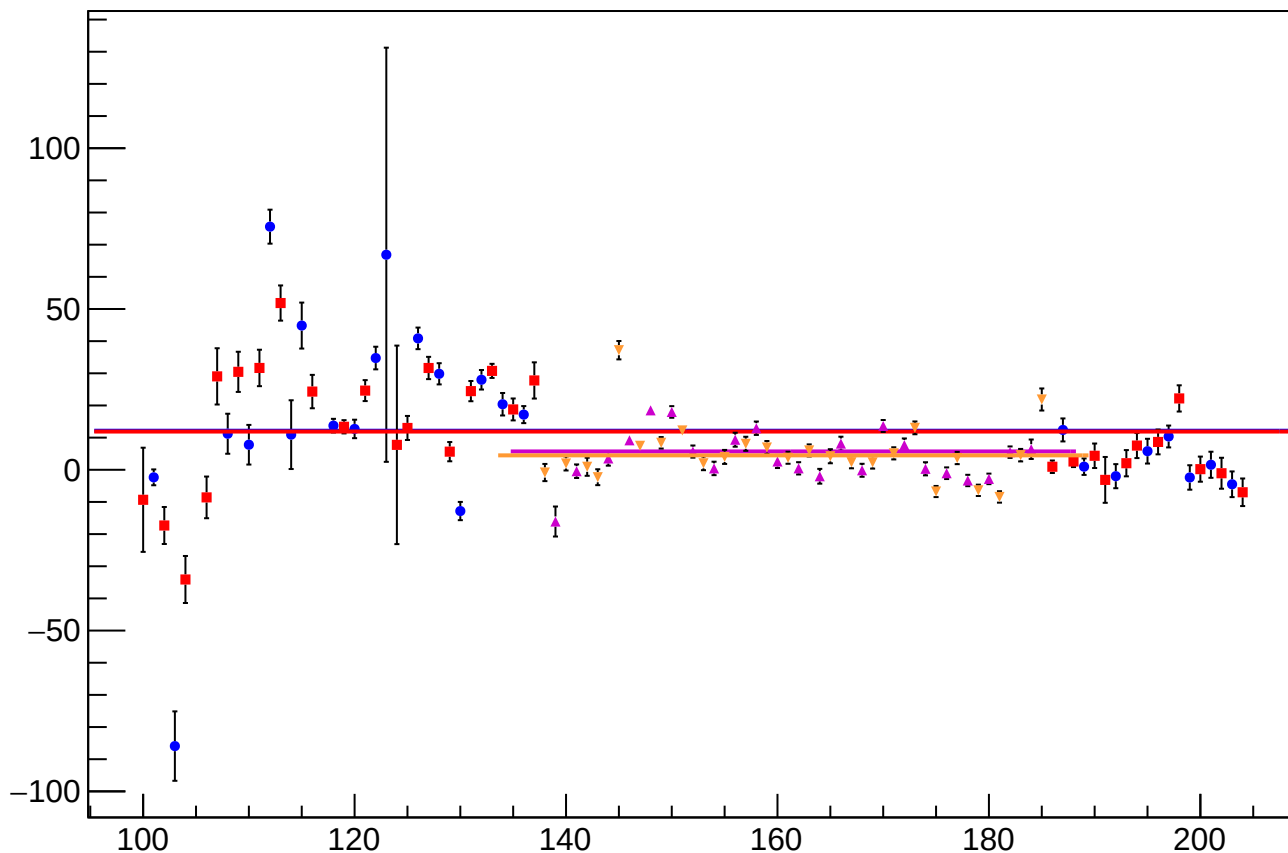
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.092 ± 1.040 $\chi^2/\text{NDF}: 78.3/7$
 Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$
 Right Out: 7.021 ± 0.766 $\chi^2/\text{NDF}: 621.6/10$
 Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$
 Right: 4.938 ± 0.617 $\chi^2/\text{NDF}: 721.0/18$
 In: -6.781 ± 0.456 $\chi^2/\text{NDF}: 2373.0/30$
 Out: -3.746 ± 0.418 $\chi^2/\text{NDF}: 3129.9/35$
 All: -5.134 ± 0.308 $\chi^2/\text{NDF}: 5527.0/66$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.145 $\pm$ 0.707 χ^2 /NDF: 616.4/24

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 11.892 $\pm$ 0.653 χ^2 /NDF: 434.7/29

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

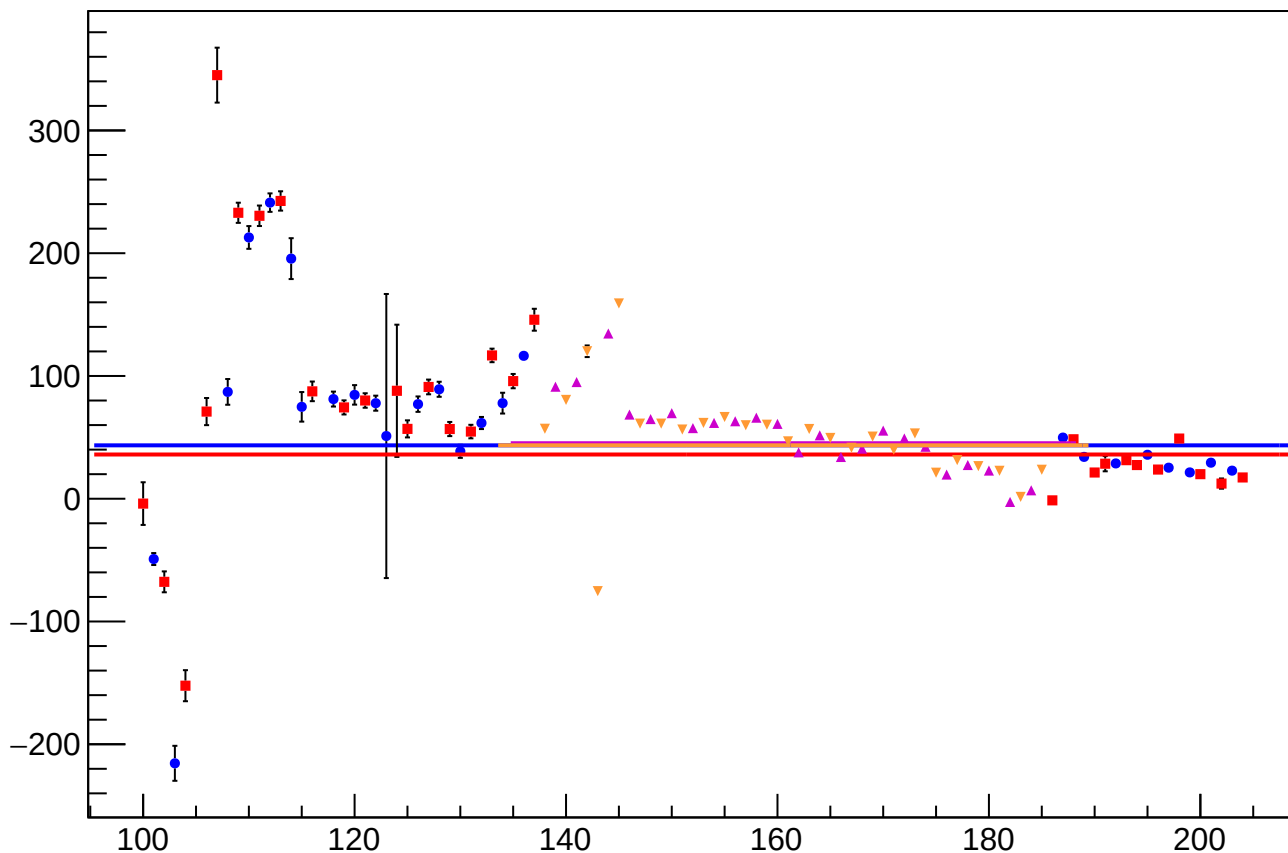
Right: 12.009 $\pm$ 0.480 χ^2 /NDF: 1051.2/54

In: 7.292 $\pm$ 0.351 χ^2 /NDF: 1003.0/47

Out: 6.447 $\pm$ 0.336 χ^2 /NDF: 901.2/54

All: 6.851 $\pm$ 0.243 χ^2 /NDF: 1907.2/102

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 43.492 ± 0.788 χ^2/NDF : 2582.8/24

Left Out: 43.524 ± 0.498 χ^2/NDF : 3830.7/24

Right Out: 36.029 ± 0.603 χ^2/NDF : 4313.2/29

Left In: 45.211 ± 0.504 χ^2/NDF : 3048.5/22

Left: 44.358 ± 0.354 χ^2/NDF : 6884.8/47

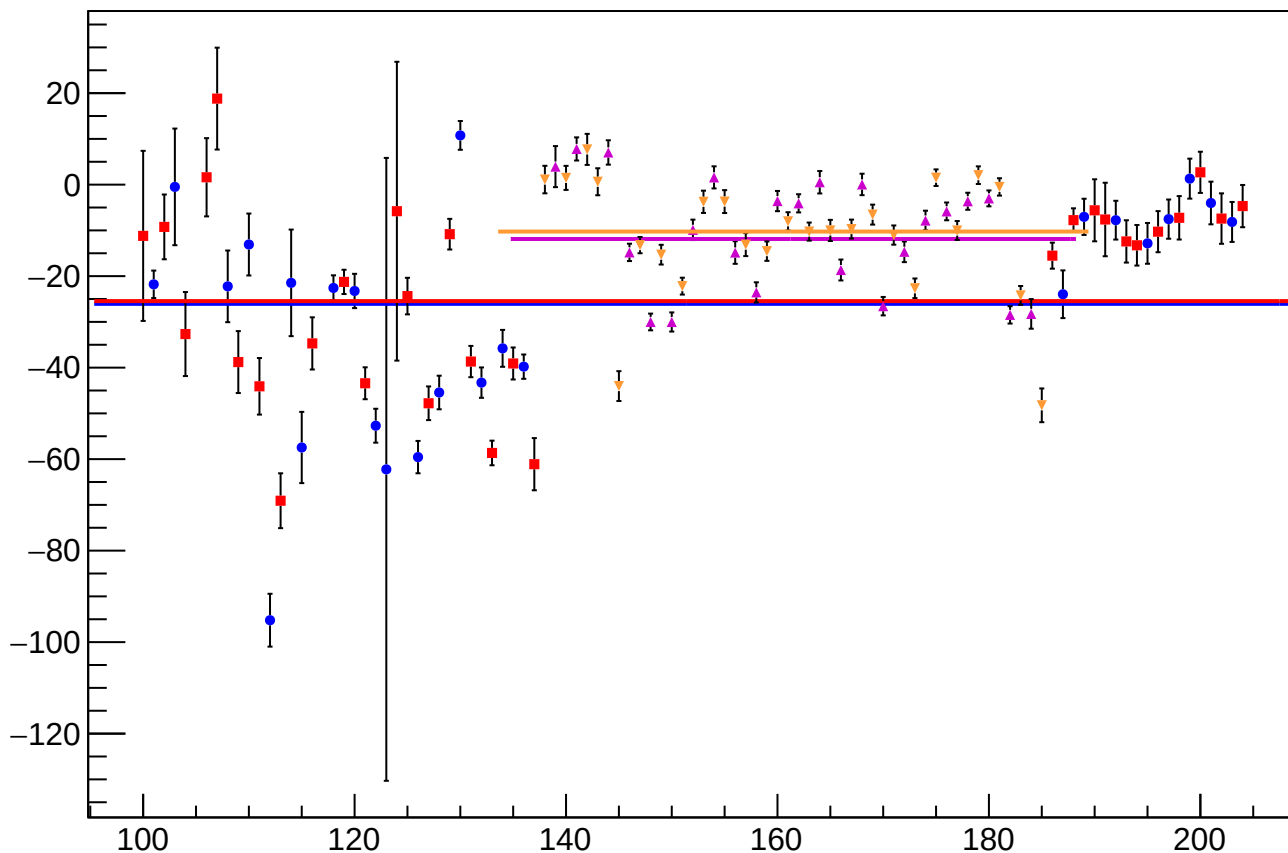
Right: 38.784 ± 0.479 χ^2/NDF : 6952.5/54

In: 44.712 ± 0.425 χ^2/NDF : 5634.6/47

Out: 40.481 ± 0.384 χ^2/NDF : 8235.7/54

All: 42.385 ± 0.285 χ^2/NDF : 13924.9/102

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.054 ± 0.832 χ^2/NDF : 685.6/24

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -25.457 ± 0.795 χ^2/NDF : 591.9/29

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

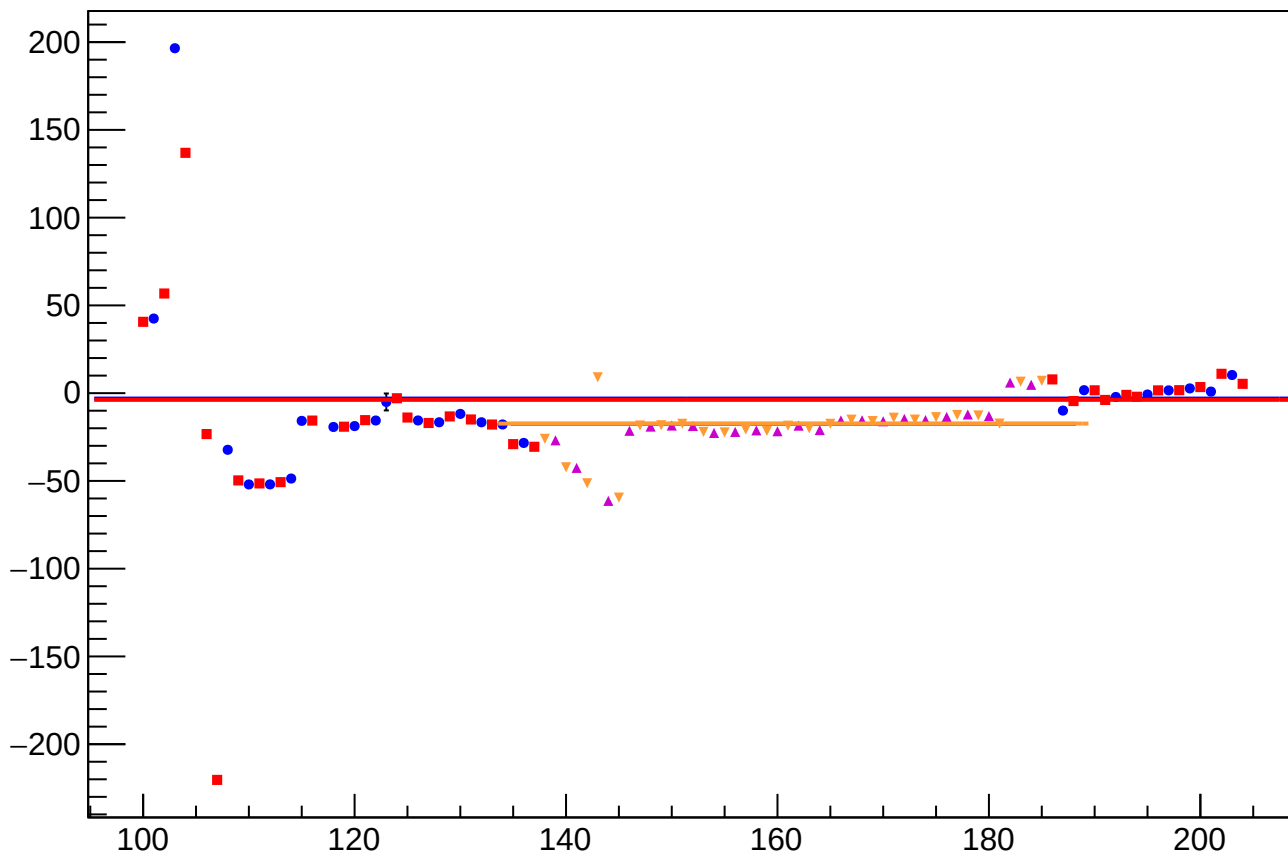
Right: -25.743 ± 0.575 χ^2/NDF : 1277.8/54

In: -15.154 ± 0.400 χ^2/NDF : 1575.2/47

Out: -13.872 ± 0.388 χ^2/NDF : 1422.8/54

All: -14.493 ± 0.278 χ^2/NDF : 3003.3/102

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -3.087 ± 0.039 $\chi^2/\text{NDF}: 597061.6/24$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -3.804 ± 0.037 $\chi^2/\text{NDF}: 602313.4/29$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

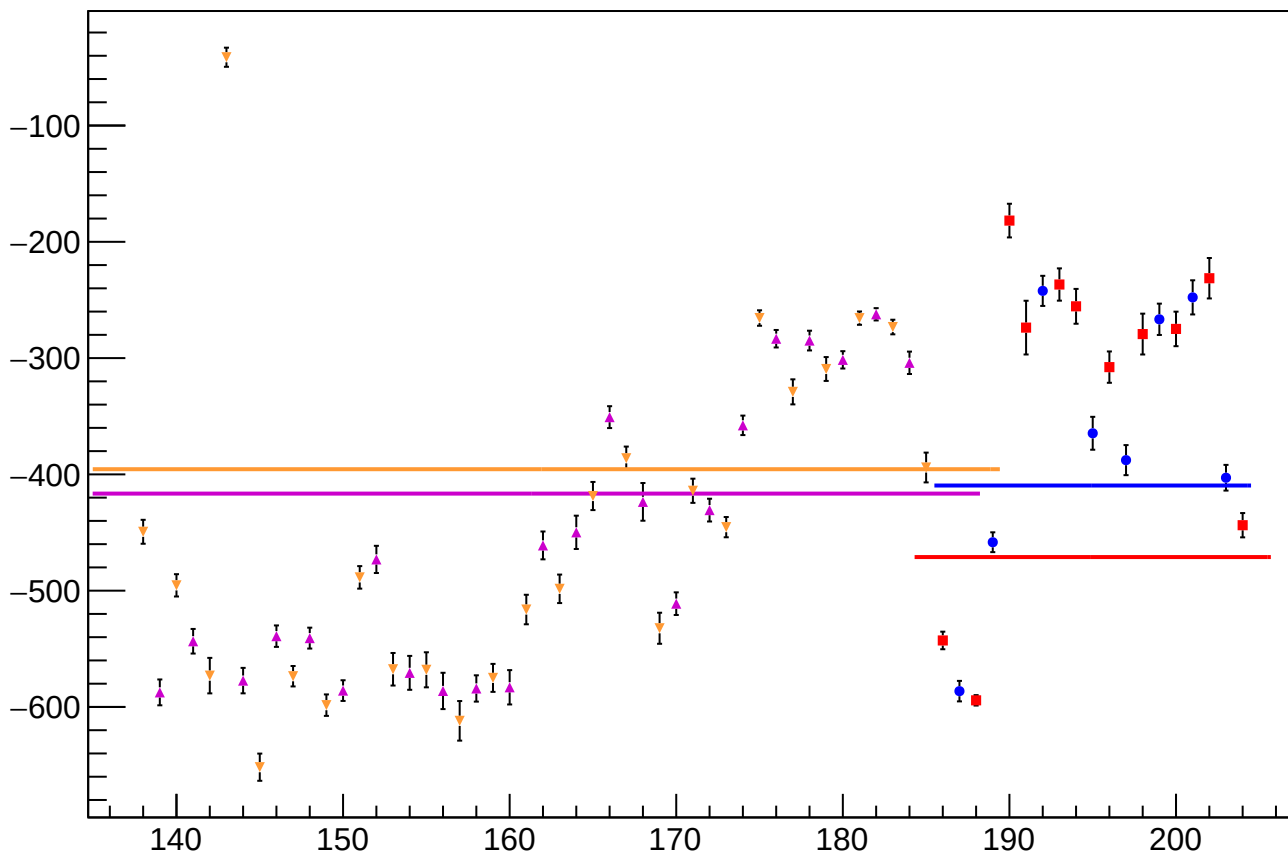
Right: -3.466 ± 0.027 $\chi^2/\text{NDF}: 1199550.0/54$

In: -14.378 ± 0.018 $\chi^2/\text{NDF}: 961151.0/47$

Out: -14.210 ± 0.018 $\chi^2/\text{NDF}: 1029033.8/54$

All: -14.292 ± 0.013 $\chi^2/\text{NDF}: 1990228.3/102$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -409.574 ± 4.019 $\chi^2/\text{NDF}: 849.3/7$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -471.100 ± 3.025 $\chi^2/\text{NDF}: 2447.4/10$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

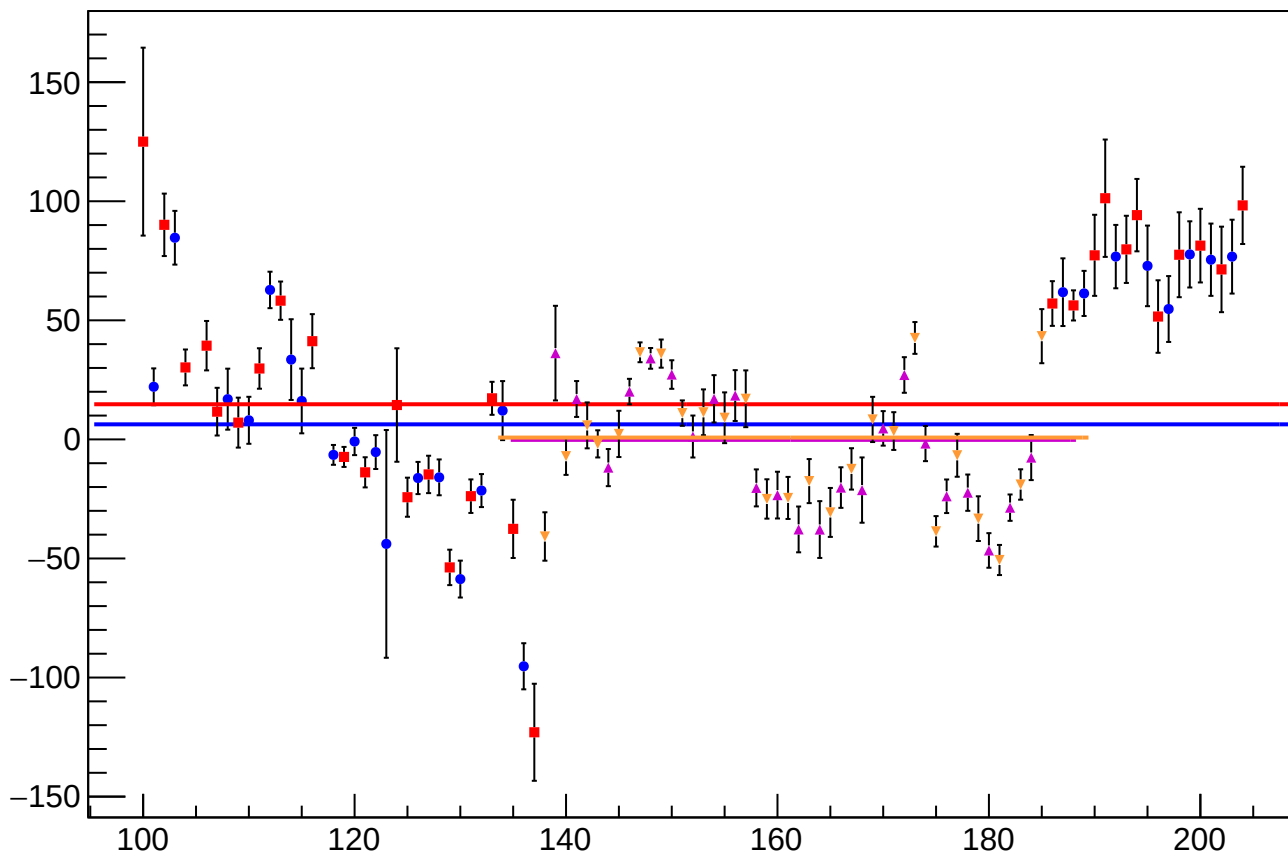
Right: -448.850 ± 2.417 $\chi^2/\text{NDF}: 3446.3/18$

In: -415.137 ± 1.794 $\chi^2/\text{NDF}: 4768.7/30$

Out: -417.782 ± 1.641 $\chi^2/\text{NDF}: 8834.1/35$

All: -416.577 ± 1.211 $\chi^2/\text{NDF}: 13604.0/66$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.324 ± 1.786 χ^2/NDF : 514.5/24

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 14.756 ± 1.711 χ^2/NDF : 563.9/29

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

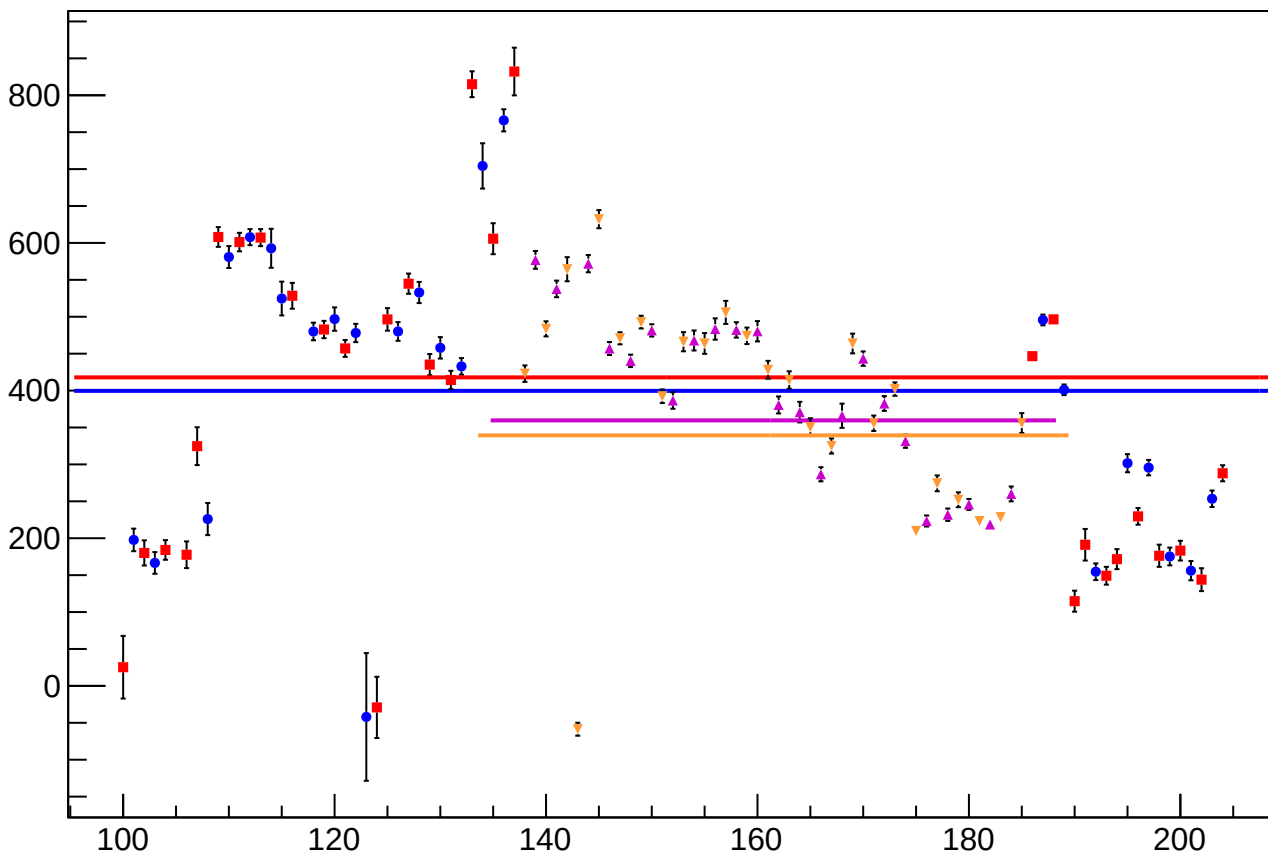
Right: 10.719 ± 1.236 χ^2/NDF : 1090.1/54

In: 2.653 ± 1.181 χ^2/NDF : 782.8/47

Out: 6.857 ± 1.129 χ^2/NDF : 951.7/54

All: 4.850 ± 0.816 χ^2/NDF : 1741.2/102

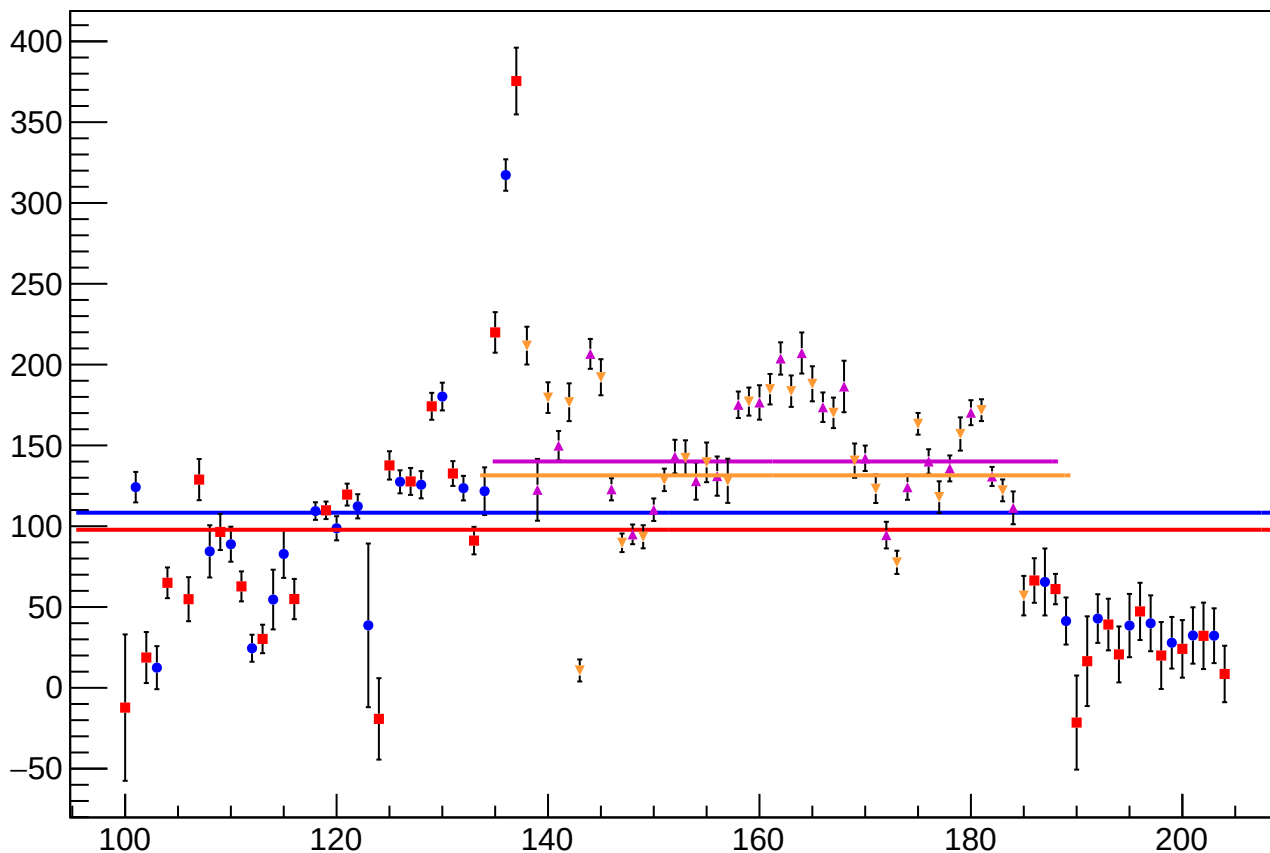
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 399.626 $\pm$ 2.524 χ^2/NDF : 3763.7/24
 Left Out: 339.355 $\pm$ 1.963 χ^2/NDF :5502.5/24
 Right Out: 417.895 $\pm$ 2.068 χ^2/NDF : 5724.5/29
 Left In: 359.609 $\pm$ 2.003 χ^2/NDF :3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2/NDF : 8953.2/47
 Right: 410.557 $\pm$ 1.599 χ^2/NDF : 9519.6/54
 In: 375.073 $\pm$ 1.569 χ^2/NDF :7316.5/47
 Out: 376.580 $\pm$ 1.423 χ^2/NDF :11986.0/54
 All: 375.899 $\pm$ 1.054 χ^2/NDF : 19303.1/102

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 108.354 ± 2.089 $\chi^2/\text{NDF}: 861.2/24$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 97.807 ± 2.018 $\chi^2/\text{NDF}: 749.6/29$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

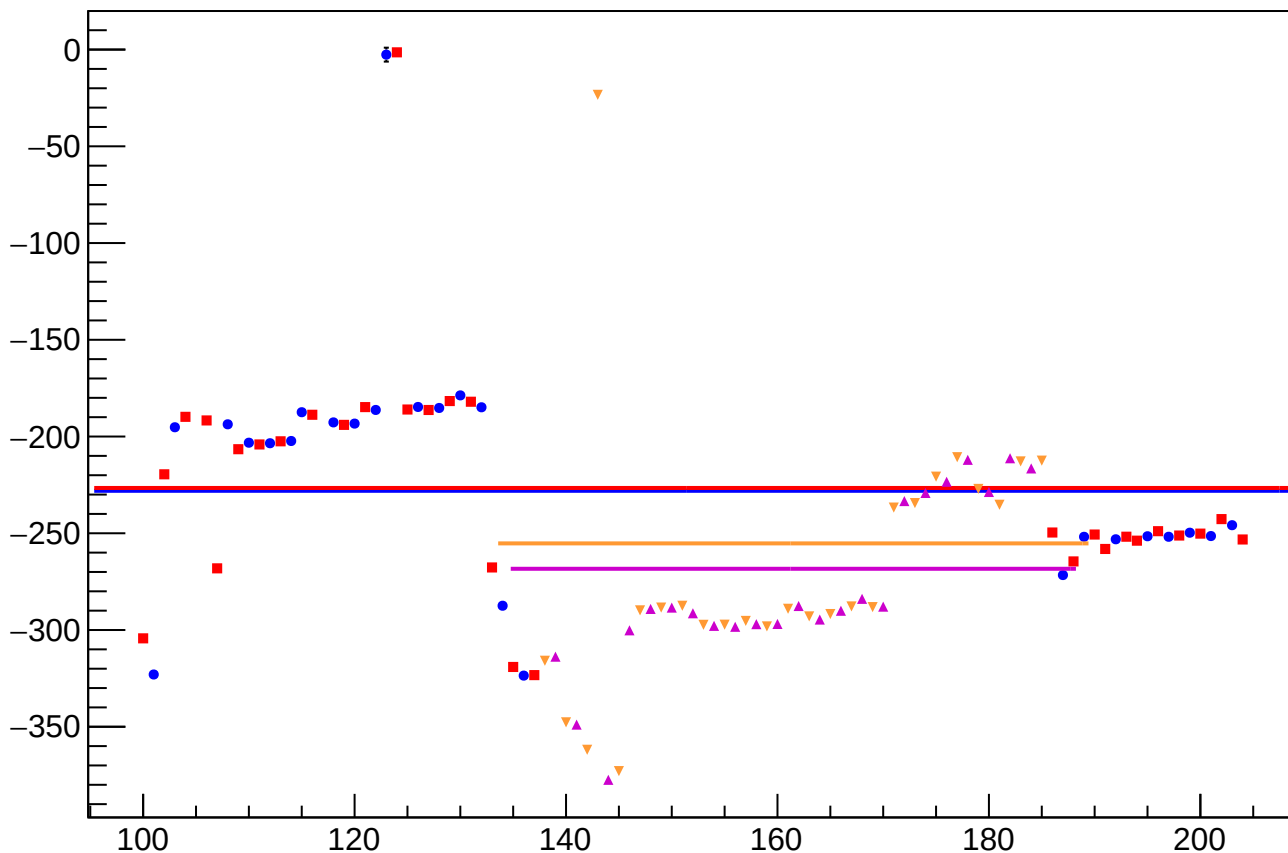
Right: 102.898 ± 1.452 $\chi^2/\text{NDF}: 1623.9/54$

In: 126.600 ± 1.362 $\chi^2/\text{NDF}: 1310.3/47$

Out: 117.232 ± 1.312 $\chi^2/\text{NDF}: 1719.4/54$

All: 121.744 ± 0.945 $\chi^2/\text{NDF}: 3054.2/102$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.049+/-0.113 χ^2/NDF : 166745.2/24

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -226.583+/-0.106 χ^2/NDF : 149153.1/29

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

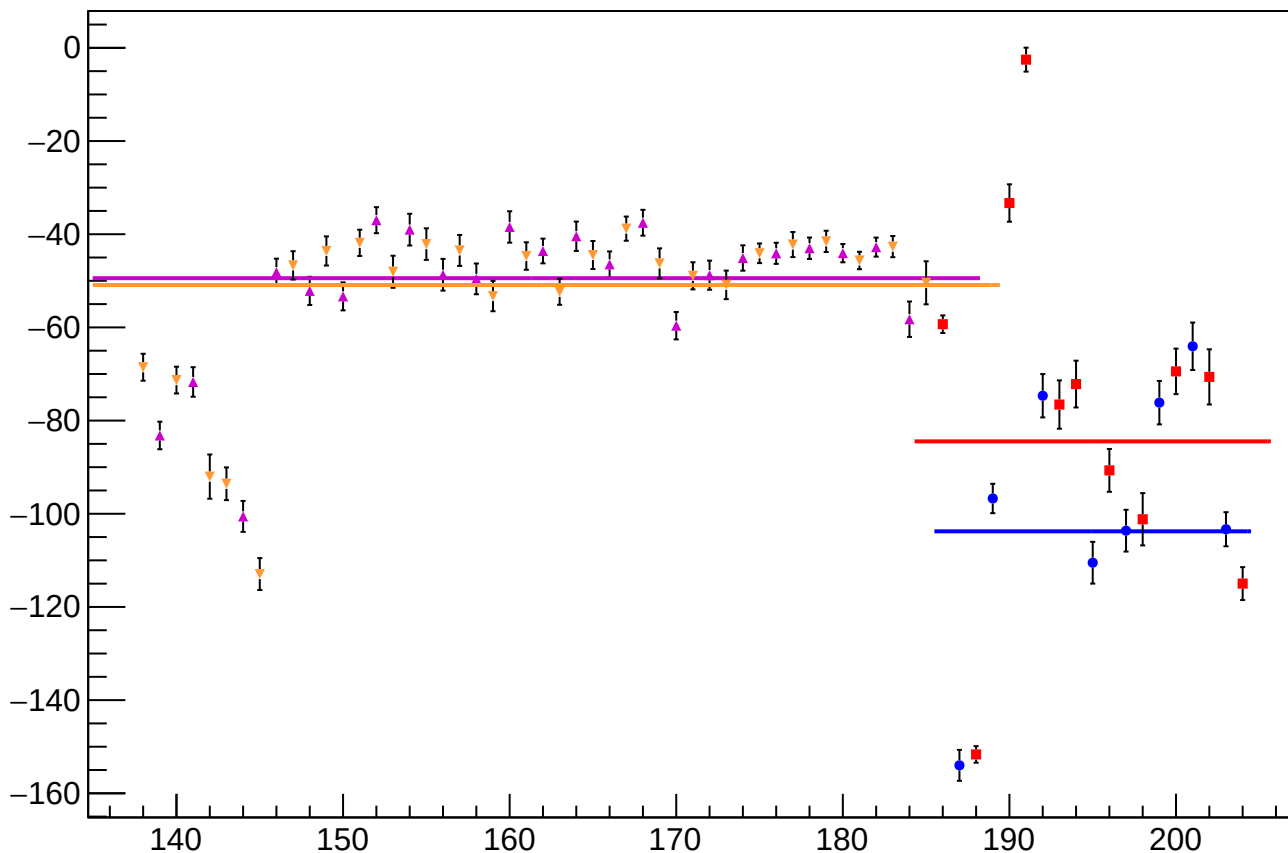
Right: -227.265+/-0.077 χ^2/NDF : 315988.1/54

In: -254.109+/-0.067 χ^2/NDF : 511319.7/47

Out: -244.452+/-0.065 χ^2/NDF : 923144.9/54

All: -249.097+/-0.047 χ^2/NDF : 1445171.0/100

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -103.768 ± 1.419 $\chi^2/\text{NDF}: 371.5/7$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -84.462 ± 0.946 $\chi^2/\text{NDF}: 2890.8/10$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

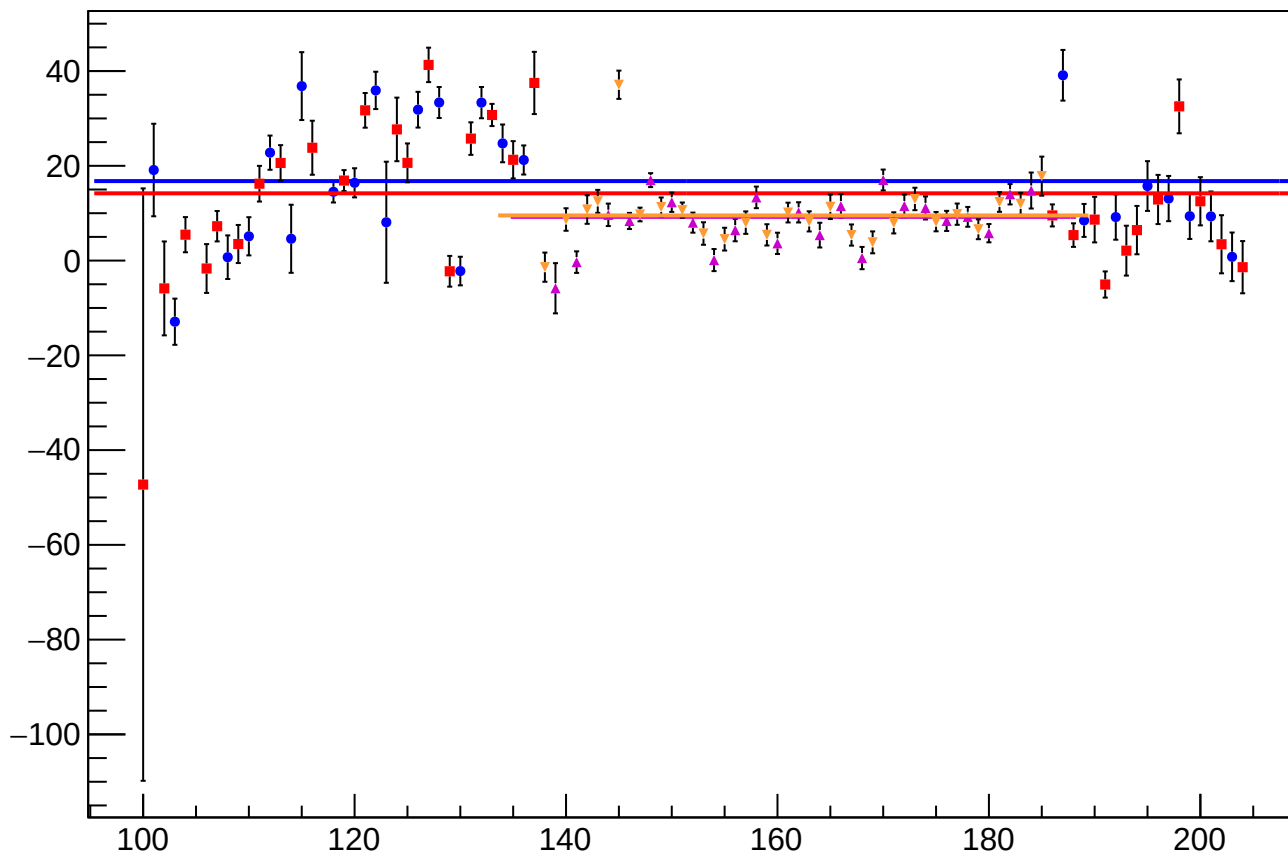
Right: -90.406 ± 0.787 $\chi^2/\text{NDF}: 3390.5/18$

In: -57.302 ± 0.540 $\chi^2/\text{NDF}: 2169.2/30$

Out: -59.897 ± 0.490 $\chi^2/\text{NDF}: 4572.8/35$

All: -58.726 ± 0.363 $\chi^2/\text{NDF}: 6754.6/66$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.777 $\pm$ 0.805 χ^2 /NDF: 249.2/24

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 14.196 $\pm$ 0.690 χ^2 /NDF: 322.8/29

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

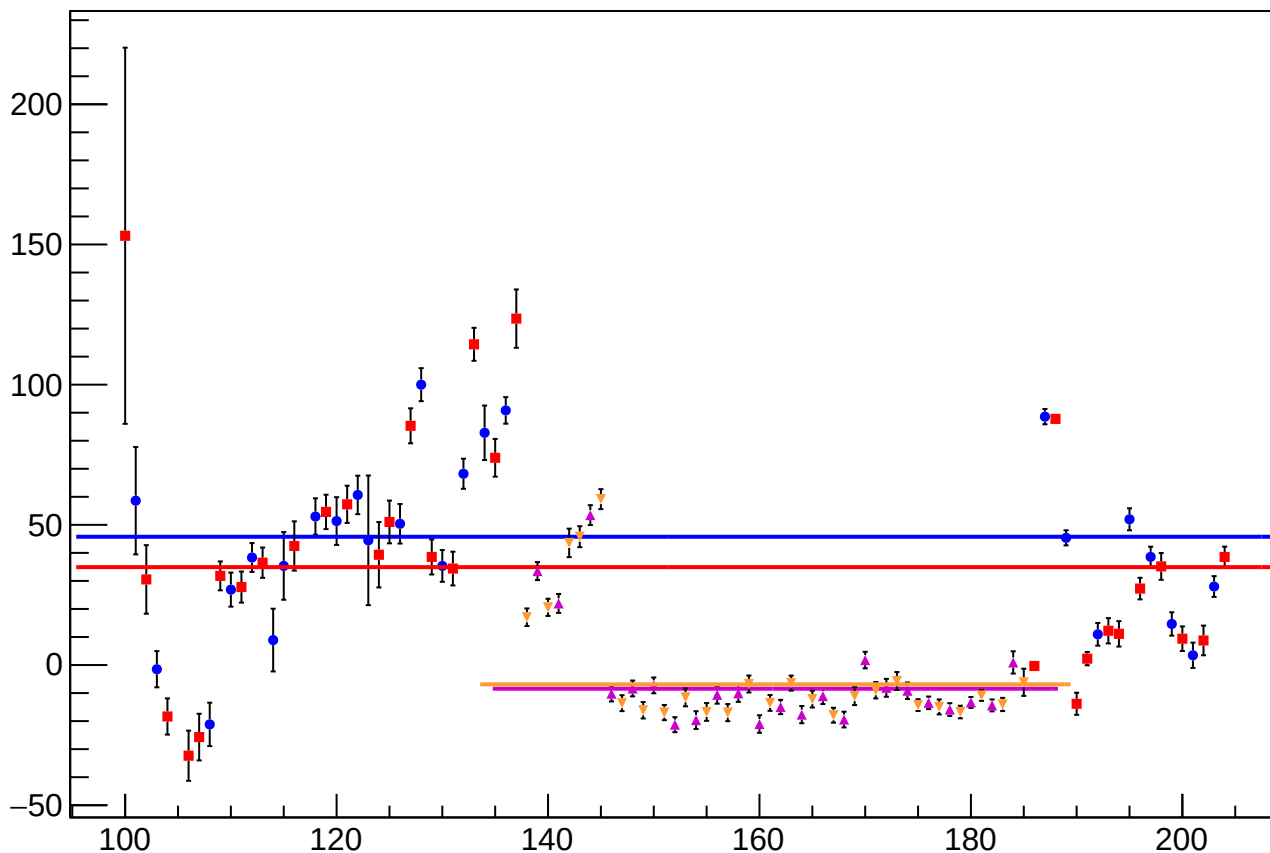
Right: 15.289 $\pm$ 0.524 χ^2 /NDF: 578.0/54

In: 11.100 $\pm$ 0.400 χ^2 /NDF:439.3/47

Out: 10.905 $\pm$ 0.374 χ^2 /NDF:489.5/54

All: 10.996 $\pm$ 0.274 χ^2 /NDF: 928.9/102

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.756 $\pm$ 0.996 χ^2 /NDF: 863.4/24

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 34.919 $\pm$ 0.721 χ^2 /NDF: 2922.9/29

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

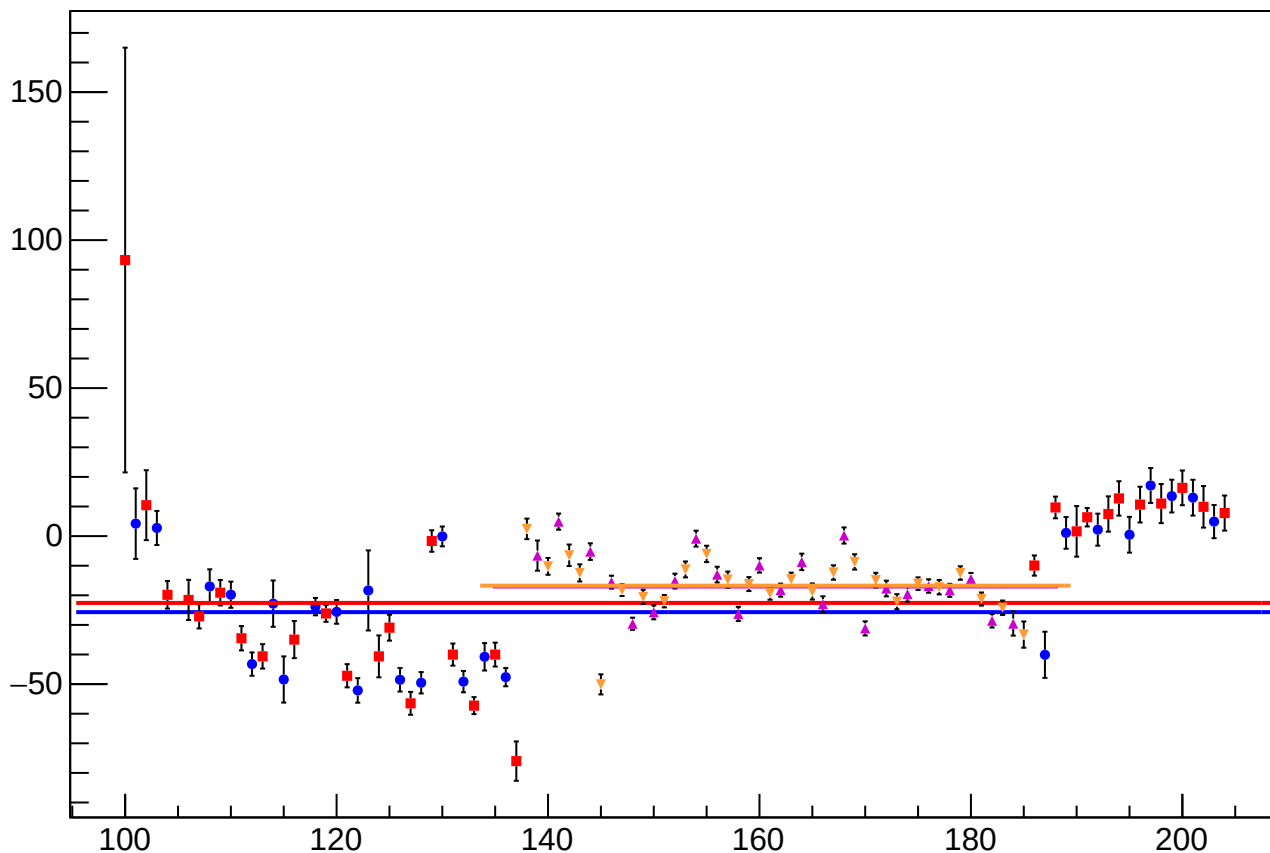
Right: 38.645 $\pm$ 0.584 χ^2 /NDF: 3864.0/54

In: 5.266 $\pm$ 0.501 χ^2 /NDF: 3764.0/47

Out: 9.221 $\pm$ 0.448 χ^2 /NDF: 5902.9/54

All: 7.466 $\pm$ 0.334 χ^2 /NDF: 9701.6/102

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.685 ± 0.933 $\chi^2/\text{NDF}: 590.9/24$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -22.572 ± 0.823 $\chi^2/\text{NDF}: 852.4/29$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

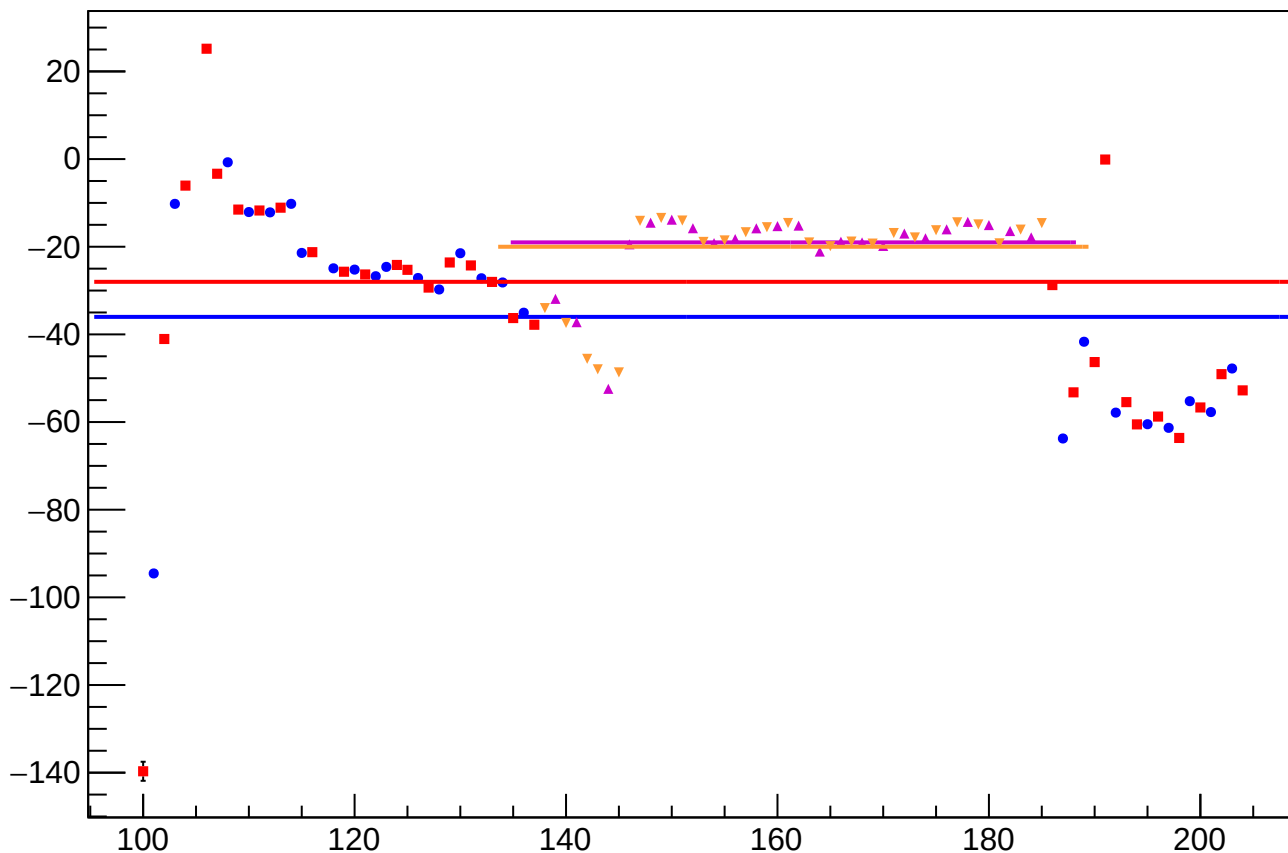
Right: -23.934 ± 0.617 $\chi^2/\text{NDF}: 1449.5/54$

In: -19.087 ± 0.455 $\chi^2/\text{NDF}: 984.1/47$

Out: -18.339 ± 0.431 $\chi^2/\text{NDF}: 1112.2/54$

All: -18.693 ± 0.313 $\chi^2/\text{NDF}: 2097.7/102$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -36.006 ± 0.045 $\chi^2/\text{NDF}: 199956.3/24$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -28.006 ± 0.038 $\chi^2/\text{NDF}: 408819.5/29$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

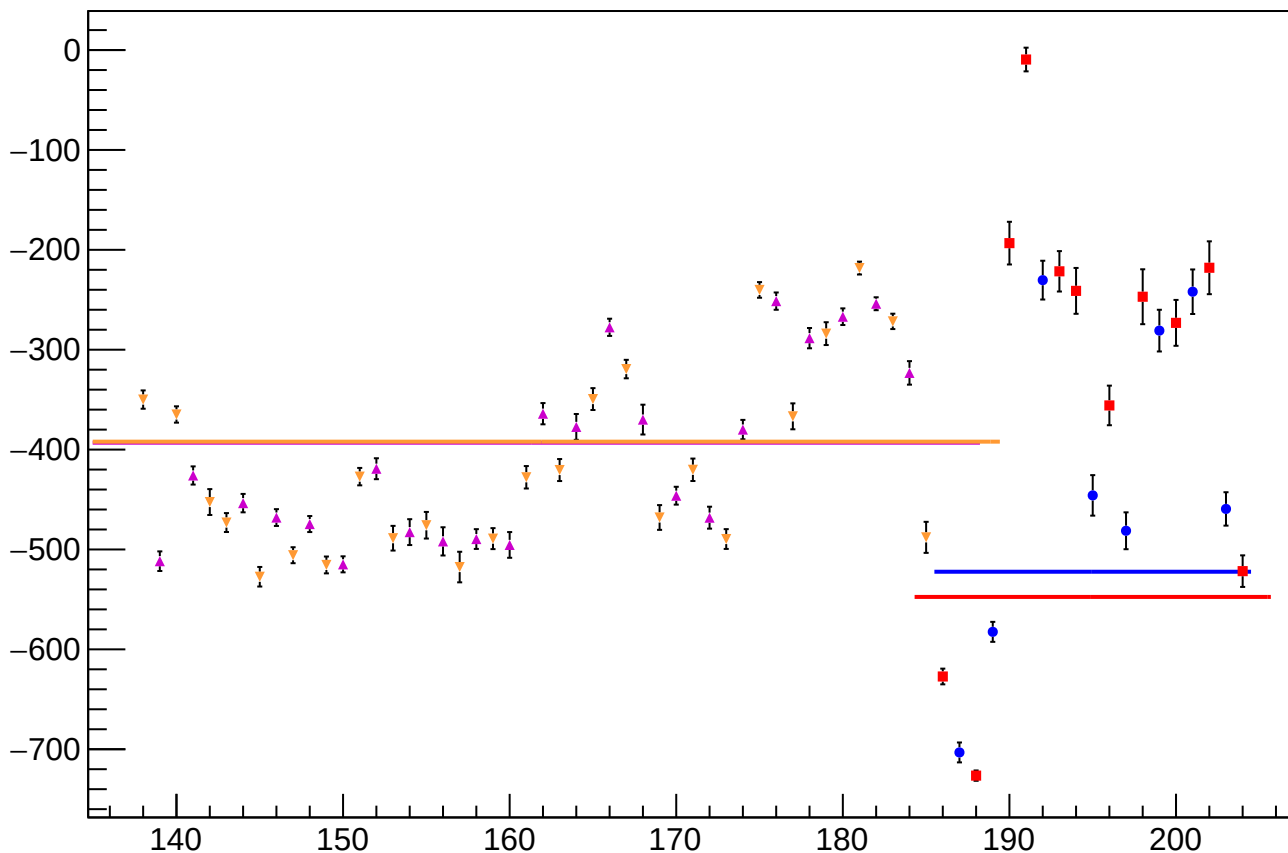
Right: -31.345 ± 0.029 $\chi^2/\text{NDF}: 627405.0/54$

In: -22.726 ± 0.021 $\chi^2/\text{NDF}: 403606.5/47$

Out: -22.203 ± 0.020 $\chi^2/\text{NDF}: 586823.2/54$

All: -22.450 ± 0.014 $\chi^2/\text{NDF}: 990758.6/102$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -522.293+/-5.272 χ^2/NDF : 917.1/7

Left Out: -392.054+/-1.967 χ^2/NDF :2717.2/24

Right Out: -547.512+/-3.573 χ^2/NDF : 4581.8/10

Left In: -393.113+/-2.006 χ^2/NDF :2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

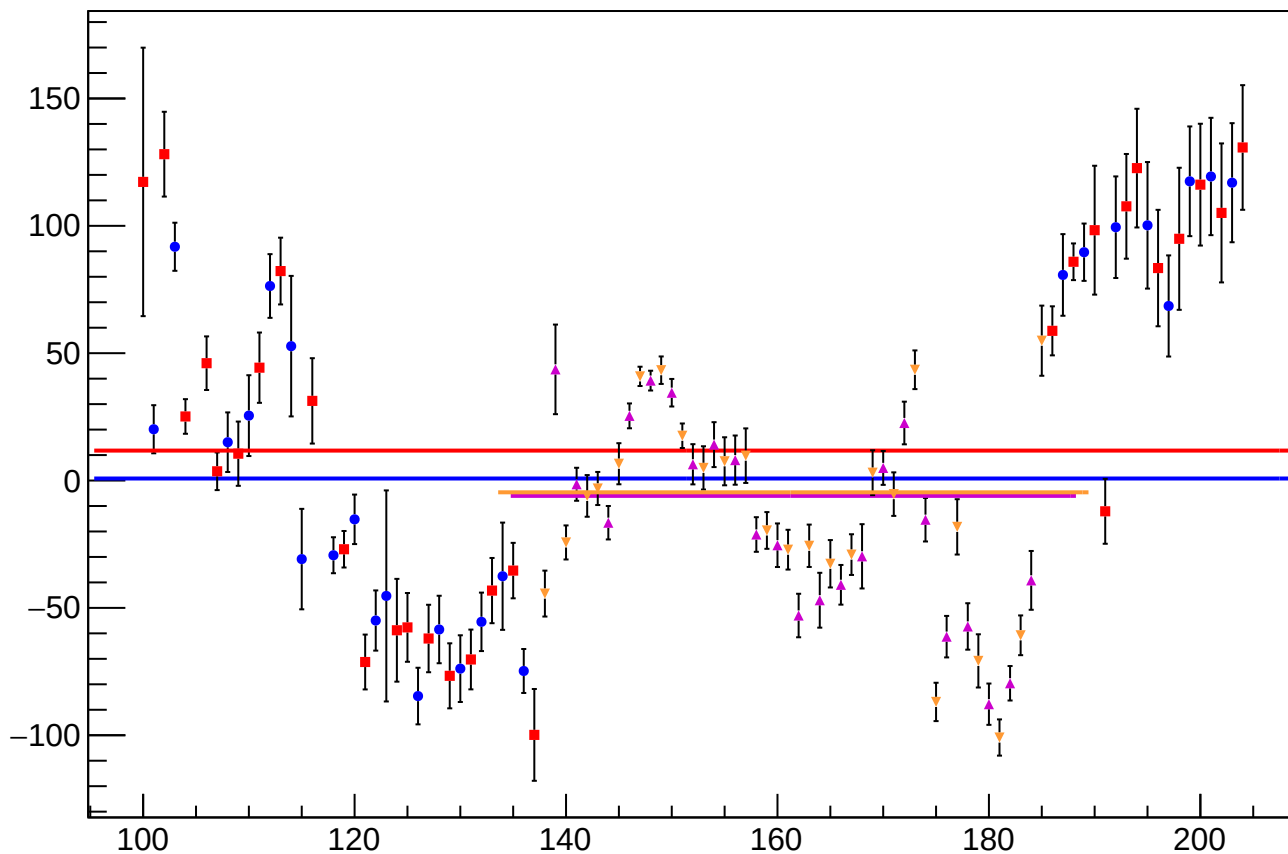
Right: -539.573+/-2.958 χ^2/NDF : 5514.5/18

In: -409.441+/-1.874 χ^2/NDF :3694.8/30

Out: -428.191+/-1.723 χ^2/NDF :8751.5/35

All: -419.605+/-1.268 χ^2/NDF : 12500.6/66

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.796 $\pm$ 2.586 χ^2 /NDF: 623.5/24

Left Out: -4.624 $\pm$ 1.462 χ^2 /NDF:772.9/24

Right Out: 11.758 $\pm$ 2.255 χ^2 /NDF: 697.7/29

Left In: -6.019 $\pm$ 1.516 χ^2 /NDF:654.1/22

Left: -5.296 $\pm$ 1.053 χ^2 /NDF: 1427.4/47

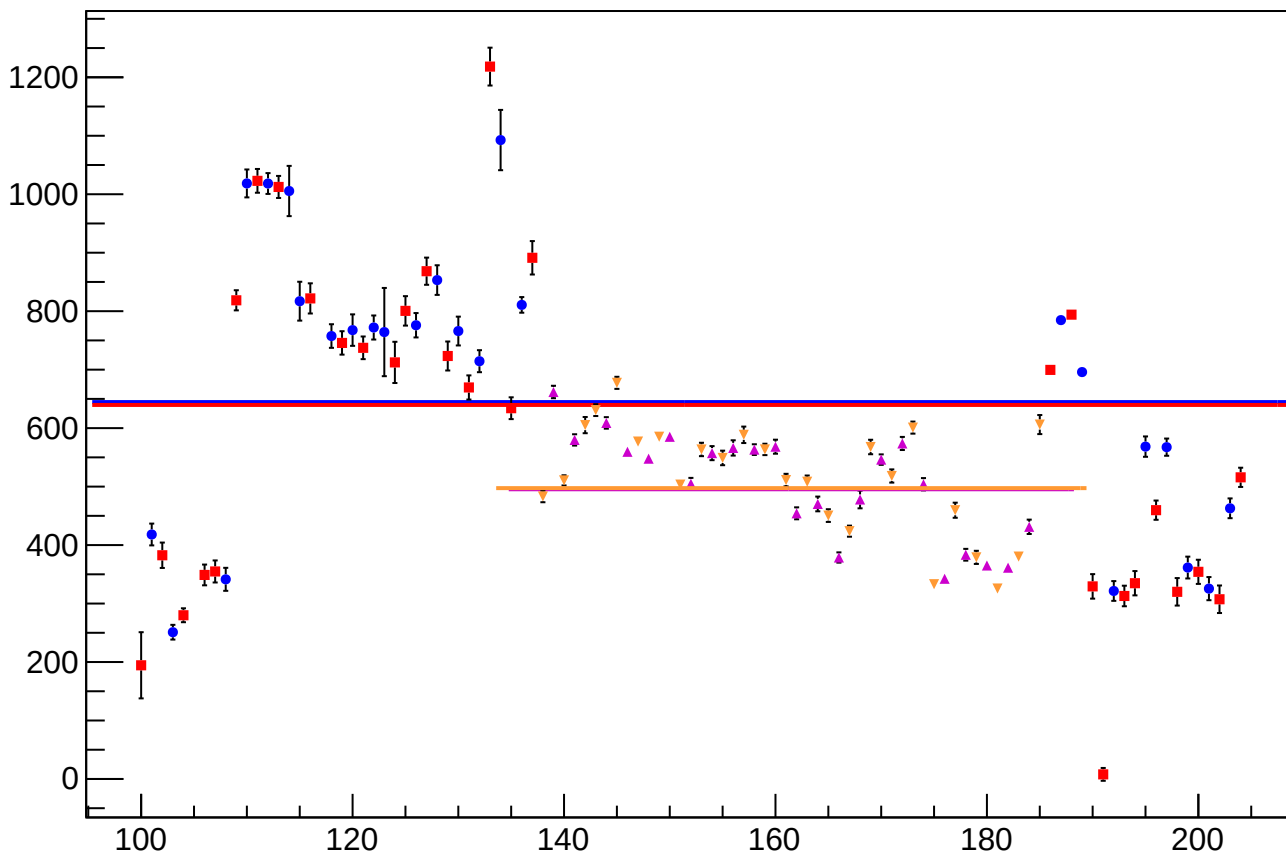
Right: 7.021 $\pm$ 1.700 χ^2 /NDF: 1331.4/54

In: -4.275 $\pm$ 1.308 χ^2 /NDF:1282.8/47

Out: 0.224 $\pm$ 1.227 χ^2 /NDF:1507.7/54

All: -1.882 $\pm$ 0.895 χ^2 /NDF: 2796.8/102

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 644.532 $\pm$ 3.360 χ^2 /NDF: 3964.8/24

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 639.665 $\pm$ 2.525 χ^2 /NDF: 9432.5/29

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

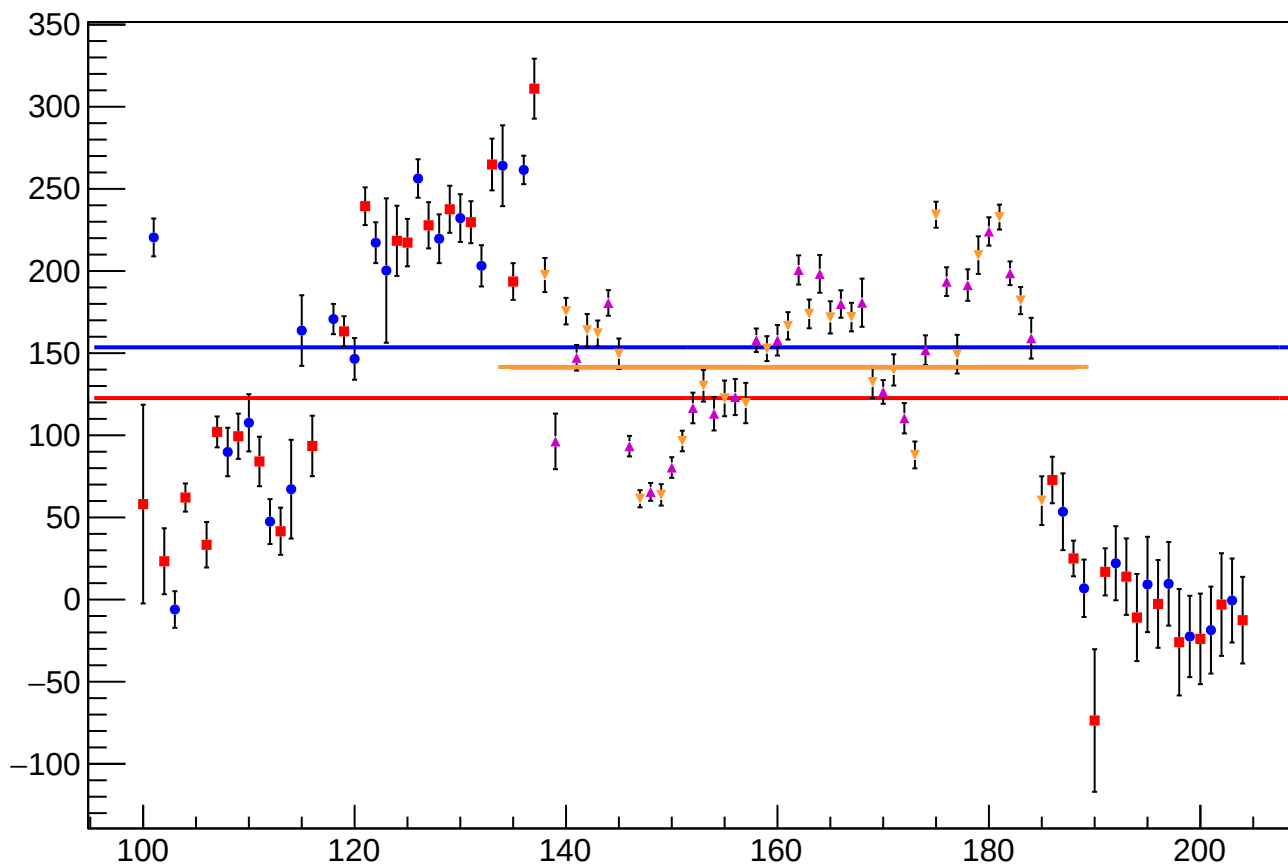
Right: 641.422 $\pm$ 2.019 χ^2 /NDF: 13398.7/54

In: 534.235 $\pm$ 1.714 χ^2 /NDF:7675.4/47

Out: 551.067 $\pm$ 1.551 χ^2 /NDF:14023.6/54

All: 543.486 $\pm$ 1.150 χ^2 /NDF: 21752.0/102

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 153.557 $\pm$ 3.024 χ^2 /NDF: 989.8/24

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 122.672 $\pm$ 2.711 χ^2 /NDF: 1099.6/29

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

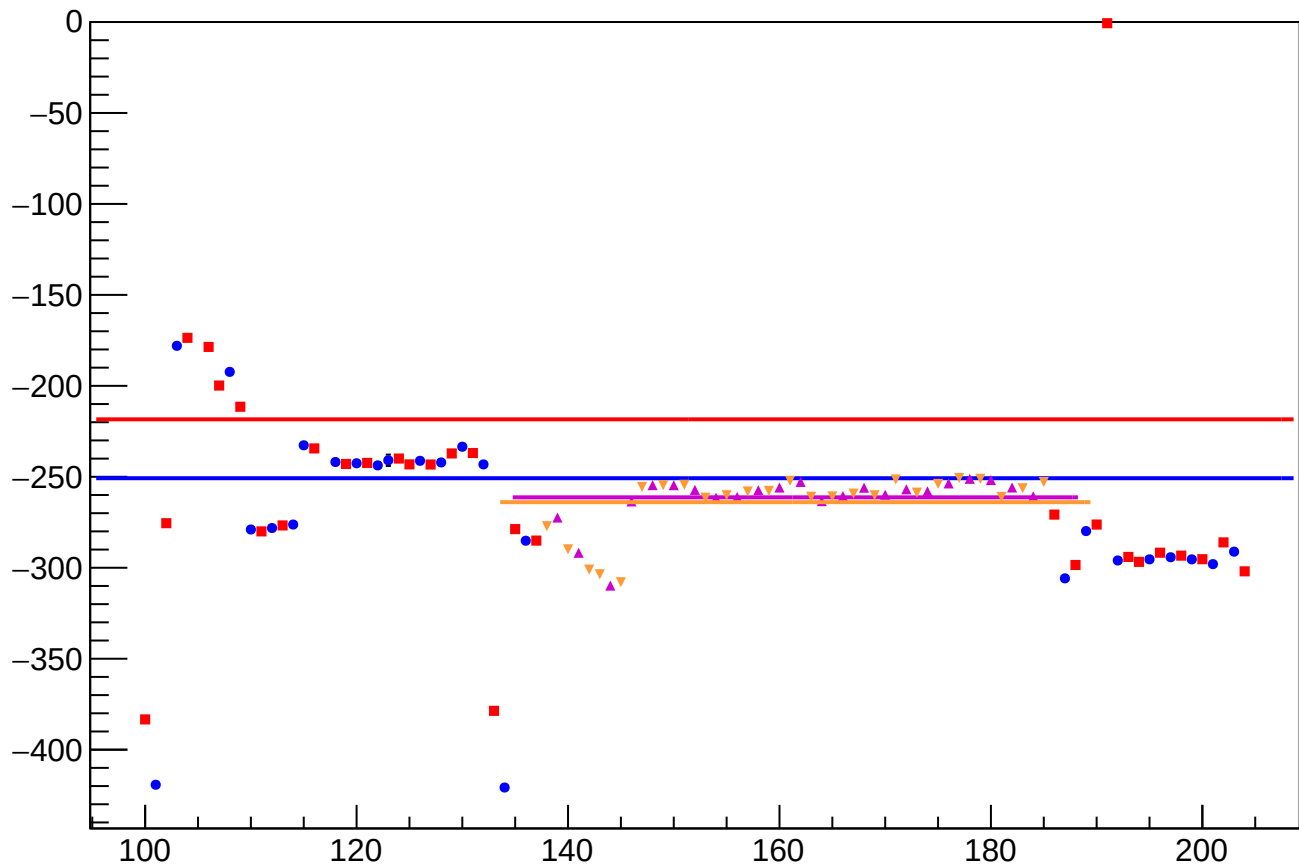
Right: 136.433 $\pm$ 2.019 χ^2 /NDF: 2147.2/54

In: 144.414 $\pm$ 1.513 χ^2 /NDF:1743.3/47

Out: 136.257 $\pm$ 1.439 χ^2 /NDF:2094.1/54

All: 140.131 $\pm$ 1.043 χ^2 /NDF: 3852.6/102

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -250.776+/-0.141 χ^2 /NDF: 194733.1/24

Left Out: -263.943+/-0.081 χ^2 /NDF:39085.0/24

Right Out: -218.412+/-0.125 χ^2 /NDF: 490875.9/29

Left In: -261.286+/-0.082 χ^2 /NDF:23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

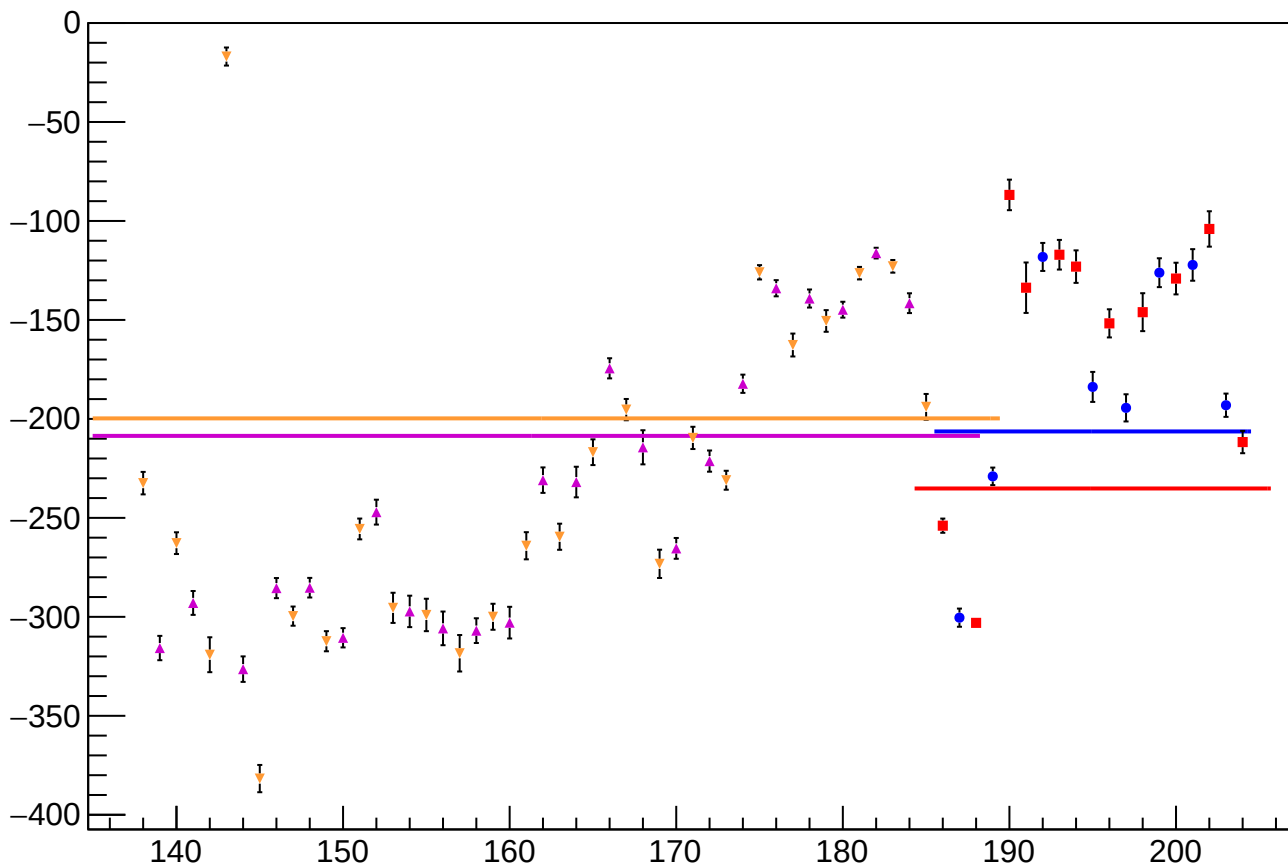
Right: -232.578+/-0.094 χ^2 /NDF: 715087.1/54

In: -258.641+/-0.071 χ^2 /NDF:222218.6/47

Out: -250.377+/-0.068 χ^2 /NDF:623536.6/54

All: -254.340+/-0.049 χ^2 /NDF: 852823.9/102

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -206.337 ± 2.130 χ^2/NDF : 850.3/7

Left Out: -199.741 ± 1.061 χ^2/NDF : 6361.5/24

Right Out: -235.153 ± 1.578 χ^2/NDF : 2347.6/10

Left In: -208.579 ± 1.082 χ^2/NDF : 4805.1/22

Left: -204.073 ± 0.758 χ^2/NDF : 11200.6/47

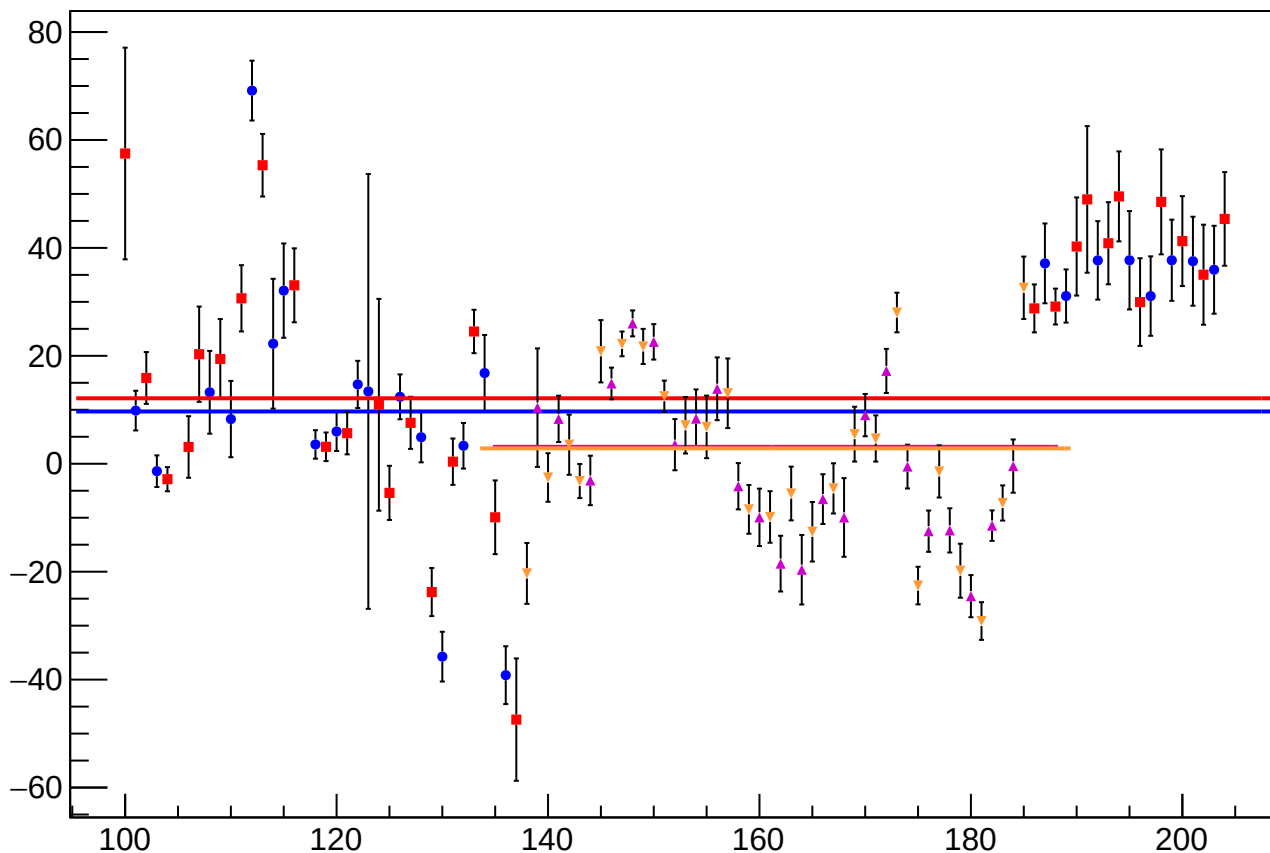
Right: -224.943 ± 1.268 χ^2/NDF : 3316.1/18

In: -208.119 ± 0.965 χ^2/NDF : 5656.3/30

Out: -210.768 ± 0.881 χ^2/NDF : 9055.9/35

All: -209.564 ± 0.650 χ^2/NDF : 14716.3/66

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.690 ± 1.014 χ^2/NDF : 431.0/24

Left Out: 2.853 ± 0.820 χ^2/NDF : 419.8/24

Right Out: 12.133 ± 0.941 χ^2/NDF : 419.4/29

Left In: 3.136 ± 0.857 χ^2/NDF : 319.8/22

Left: 2.988 ± 0.592 χ^2/NDF : 739.7/47

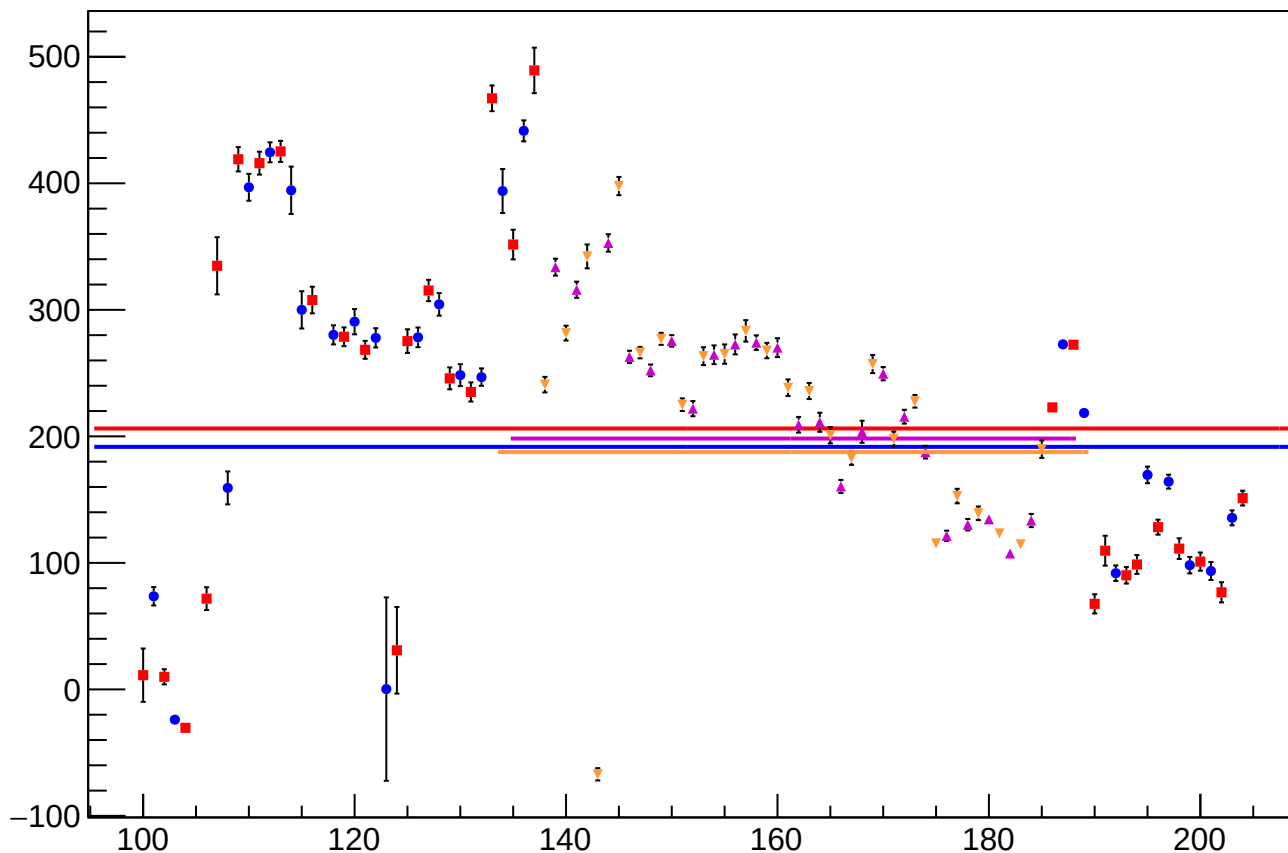
Right: 11.002 ± 0.690 χ^2/NDF : 853.5/54

In: 5.864 ± 0.654 χ^2/NDF : 775.1/47

Out: 6.857 ± 0.618 χ^2/NDF : 894.5/54

All: 6.389 ± 0.449 χ^2/NDF : 1670.9/102

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 191.696 $\pm$ 1.349 χ^2 /NDF: 8035.9/24

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 206.222 $\pm$ 1.091 χ^2 /NDF: 11317.3/29

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

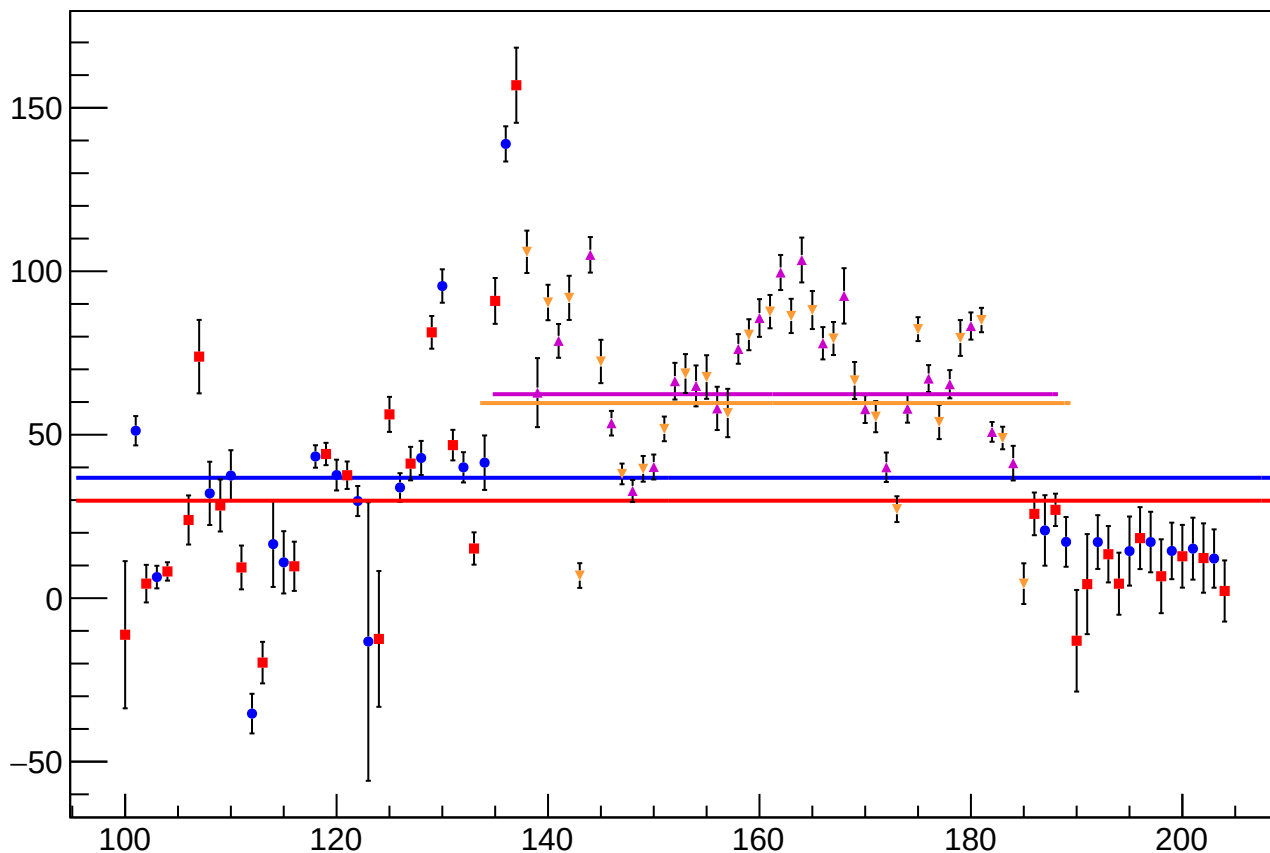
Right: 200.476 $\pm$ 0.849 χ^2 /NDF: 19423.3/54

In: 195.697 $\pm$ 0.844 χ^2 /NDF: 12566.1/47

Out: 196.672 $\pm$ 0.763 χ^2 /NDF: 18548.9/54

All: 196.234 $\pm$ 0.566 χ^2 /NDF: 31115.7/102

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.827 ± 1.192 $\chi^2/\text{NDF}: 784.0/24$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 29.820 ± 1.129 $\chi^2/\text{NDF}: 597.9/29$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

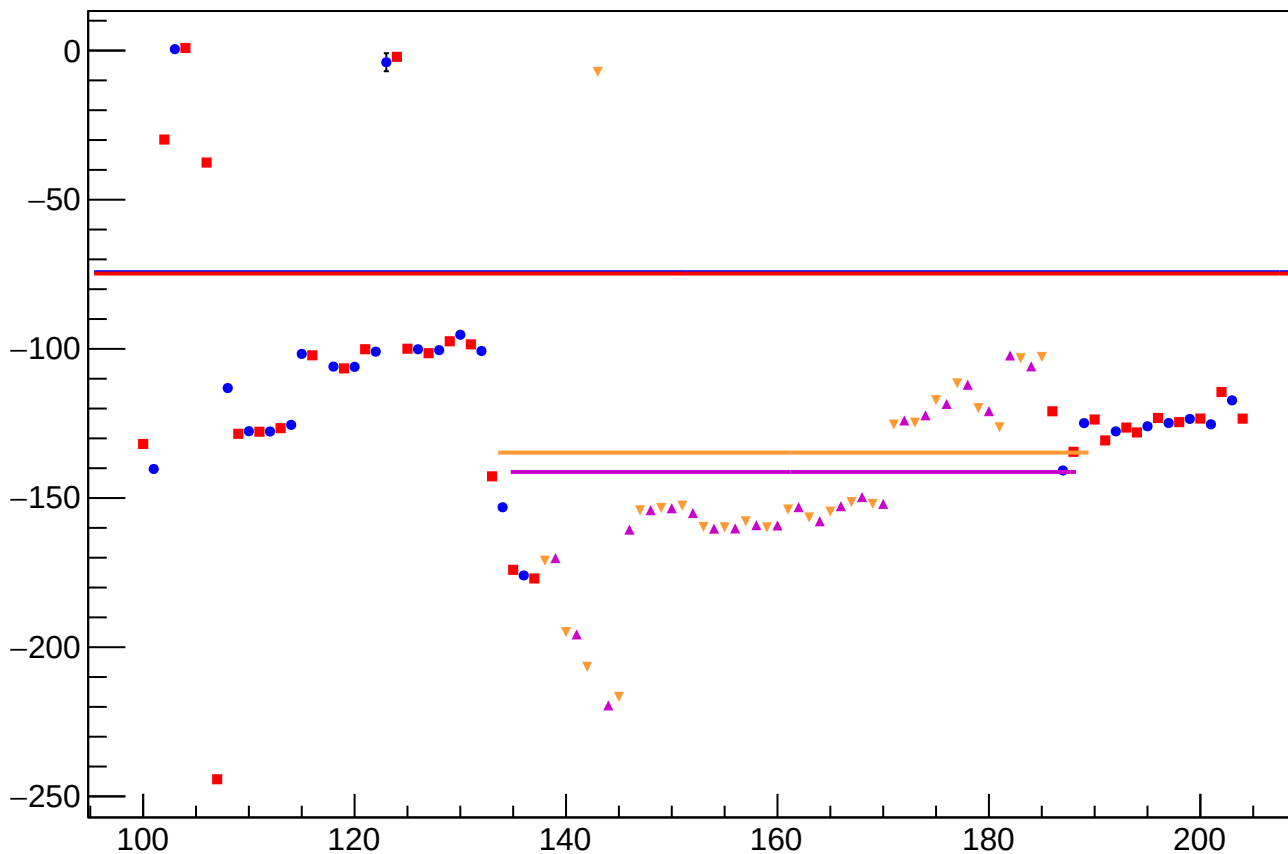
Right: 33.132 ± 0.820 $\chi^2/\text{NDF}: 1400.2/54$

In: 52.163 ± 0.754 $\chi^2/\text{NDF}: 1466.2/47$

Out: 47.442 ± 0.723 $\chi^2/\text{NDF}: 1768.5/54$

All: 49.701 ± 0.522 $\chi^2/\text{NDF}: 3255.2/102$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -74.291 ± 0.054 $\chi^2/\text{NDF}: 1392341.7/24$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -74.749 ± 0.051 $\chi^2/\text{NDF}: 1391829.0/29$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

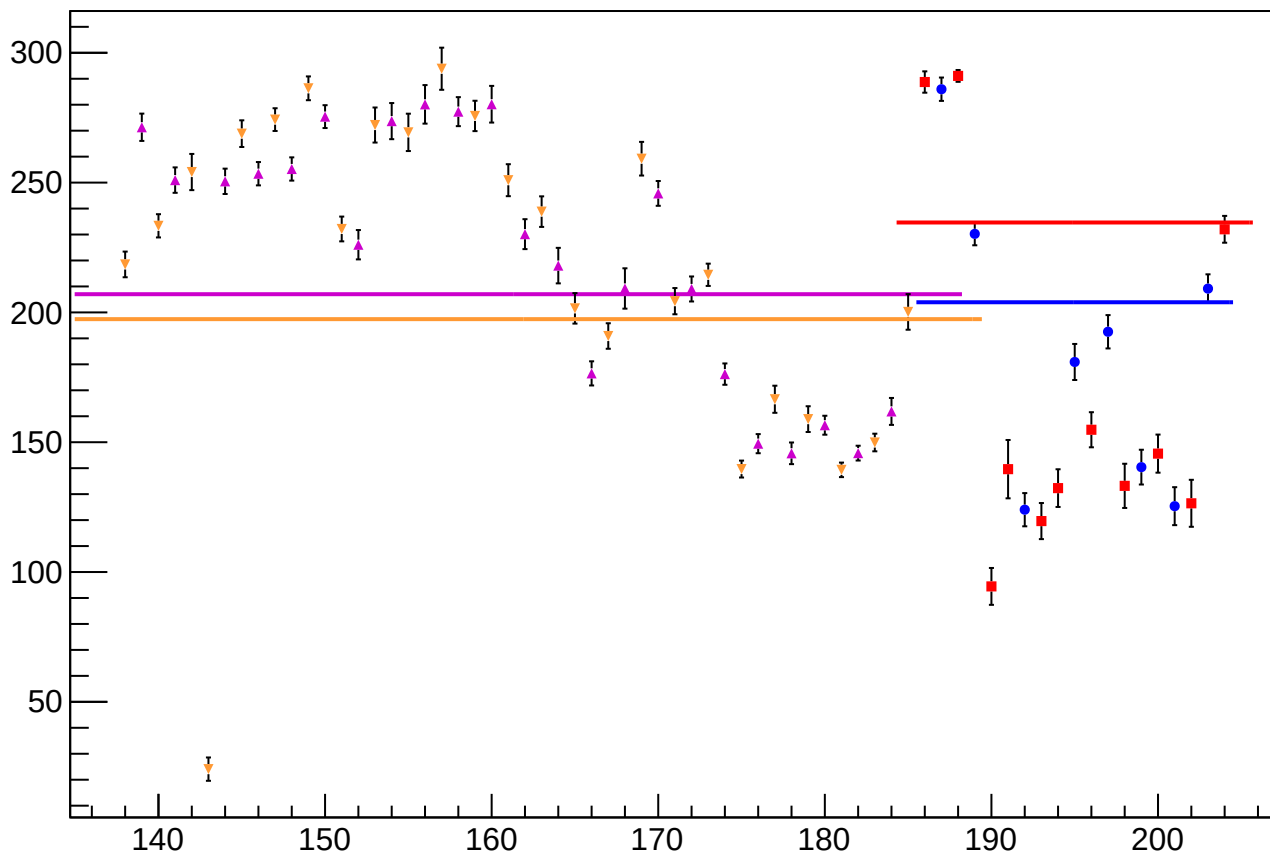
Right: -74.532 ± 0.037 $\chi^2/\text{NDF}: 2784209.0/54$

In: -113.411 ± 0.035 $\chi^2/\text{NDF}: 2648575.0/47$

Out: -108.858 ± 0.034 $\chi^2/\text{NDF}: 2982300.6/54$

All: -111.063 ± 0.024 $\chi^2/\text{NDF}: 5639796.5/100$

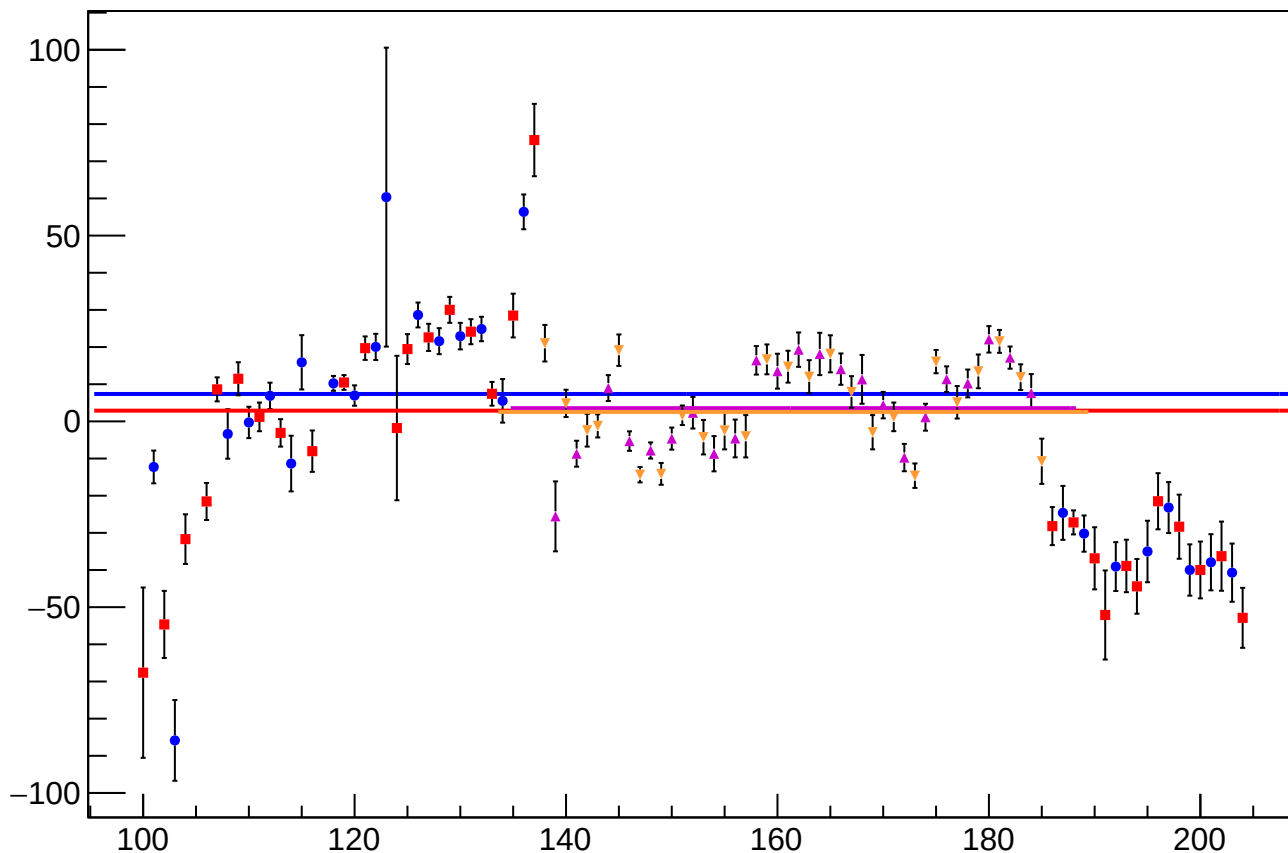
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 203.912 ± 2.022 $\chi^2/\text{NDF}: 745.1/7$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 234.635 ± 1.538 $\chi^2/\text{NDF}: 2292.1/10$
 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: 223.379 ± 1.224 $\chi^2/\text{NDF}: 3183.5/18$
 In: 206.414 ± 0.889 $\chi^2/\text{NDF}: 3358.5/30$
 Out: 207.895 ± 0.816 $\chi^2/\text{NDF}: 7097.4/35$
 All: 207.218 ± 0.601 $\chi^2/\text{NDF}: 10457.4/66$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.376 ± 0.873 χ^2/NDF : 633.2/24

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 2.887 ± 0.827 χ^2/NDF : 743.6/29

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

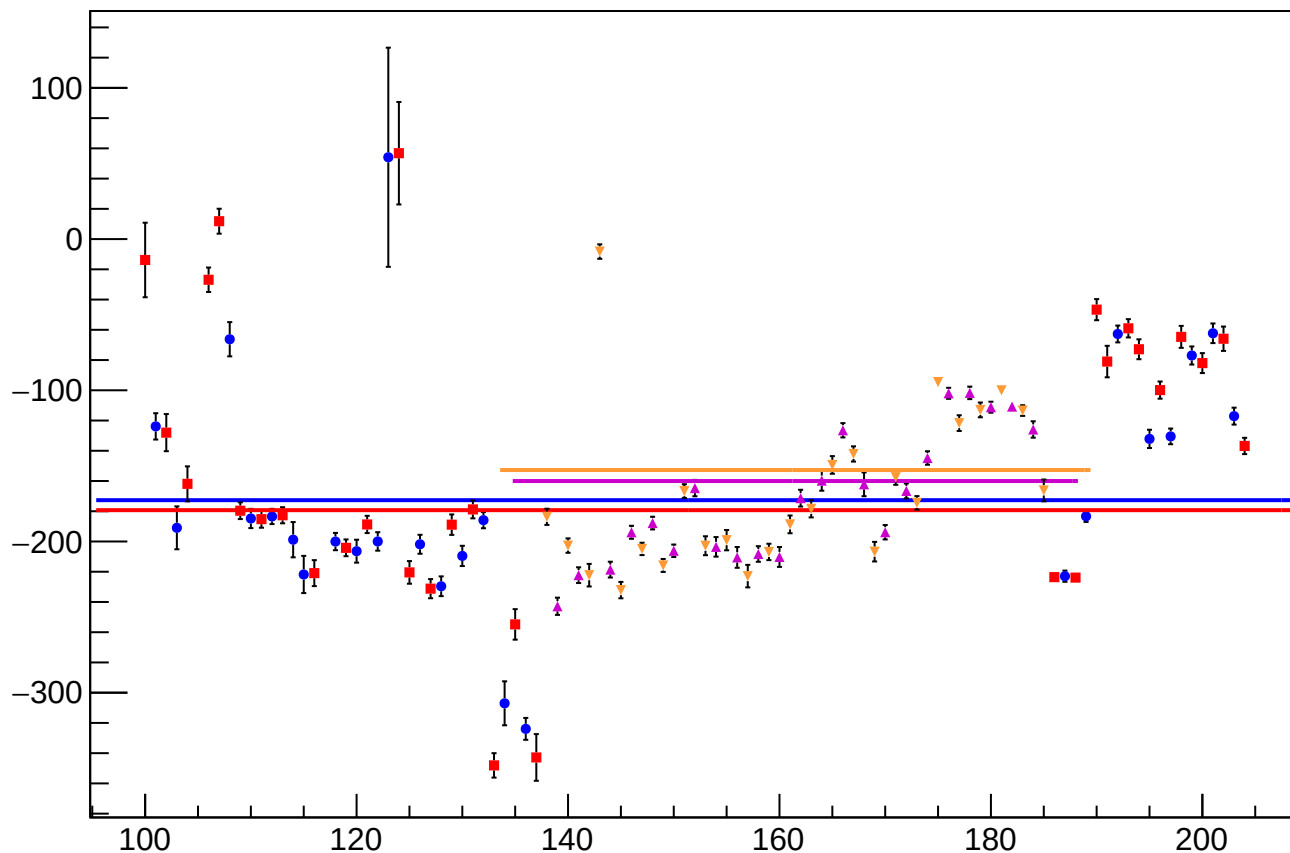
Right: 5.008 ± 0.600 χ^2/NDF : 1390.7/54

In: 5.238 ± 0.579 χ^2/NDF : 835.9/47

Out: 2.699 ± 0.552 χ^2/NDF : 1019.1/54

All: 3.907 ± 0.399 χ^2/NDF : 1865.1/102

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -172.676 ± 1.255 $\chi^2/\text{NDF}: 2216.3/24$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -179.286 ± 1.033 $\chi^2/\text{NDF}: 4558.9/29$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

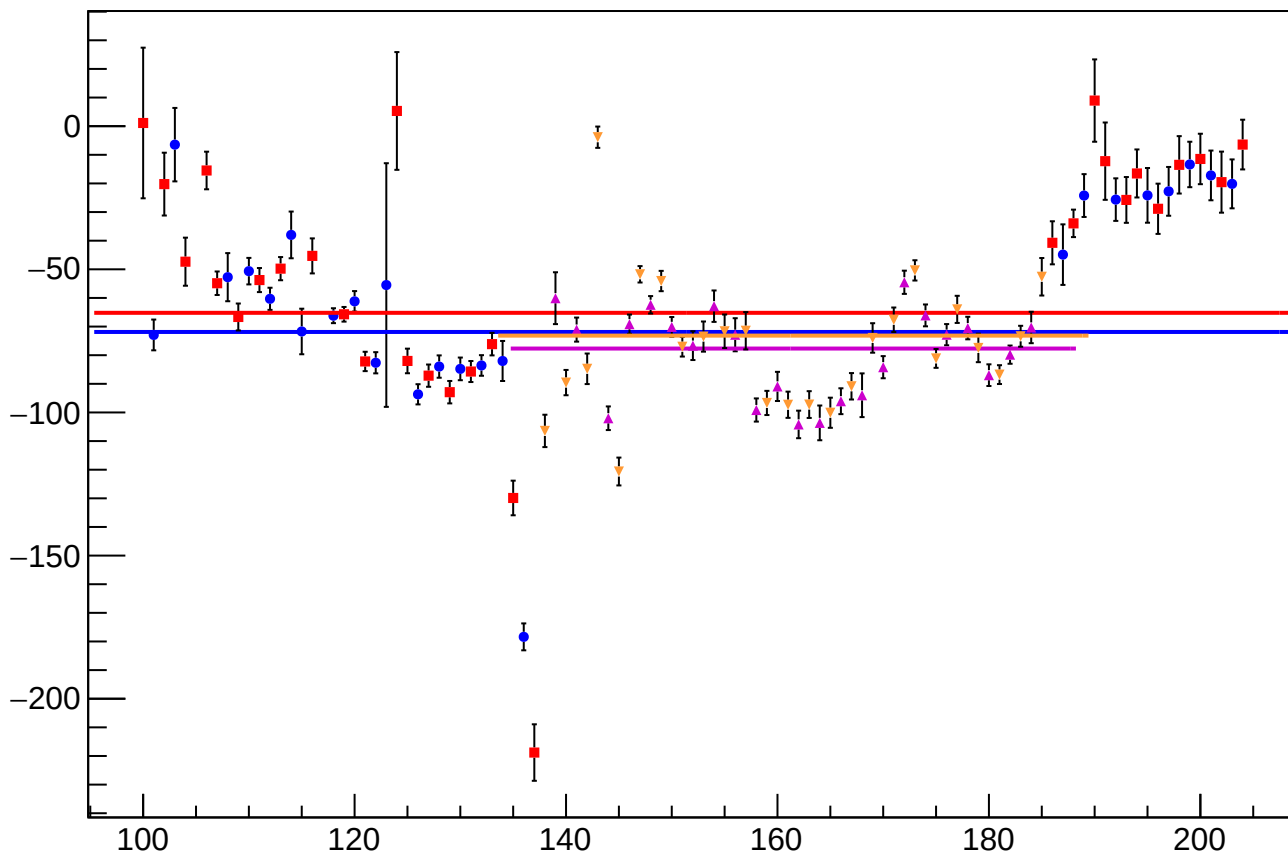
Right: -176.616 ± 0.798 $\chi^2/\text{NDF}: 6791.7/54$

In: -164.867 ± 0.777 $\chi^2/\text{NDF}: 4303.4/47$

Out: -165.135 ± 0.706 $\chi^2/\text{NDF}: 7988.7/54$

All: -165.014 ± 0.522 $\chi^2/\text{NDF}: 12292.1/102$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -71.883 ± 1.019 $\chi^2/\text{NDF}: 959.9/24$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -65.197 ± 0.971 $\chi^2/\text{NDF}: 951.9/29$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

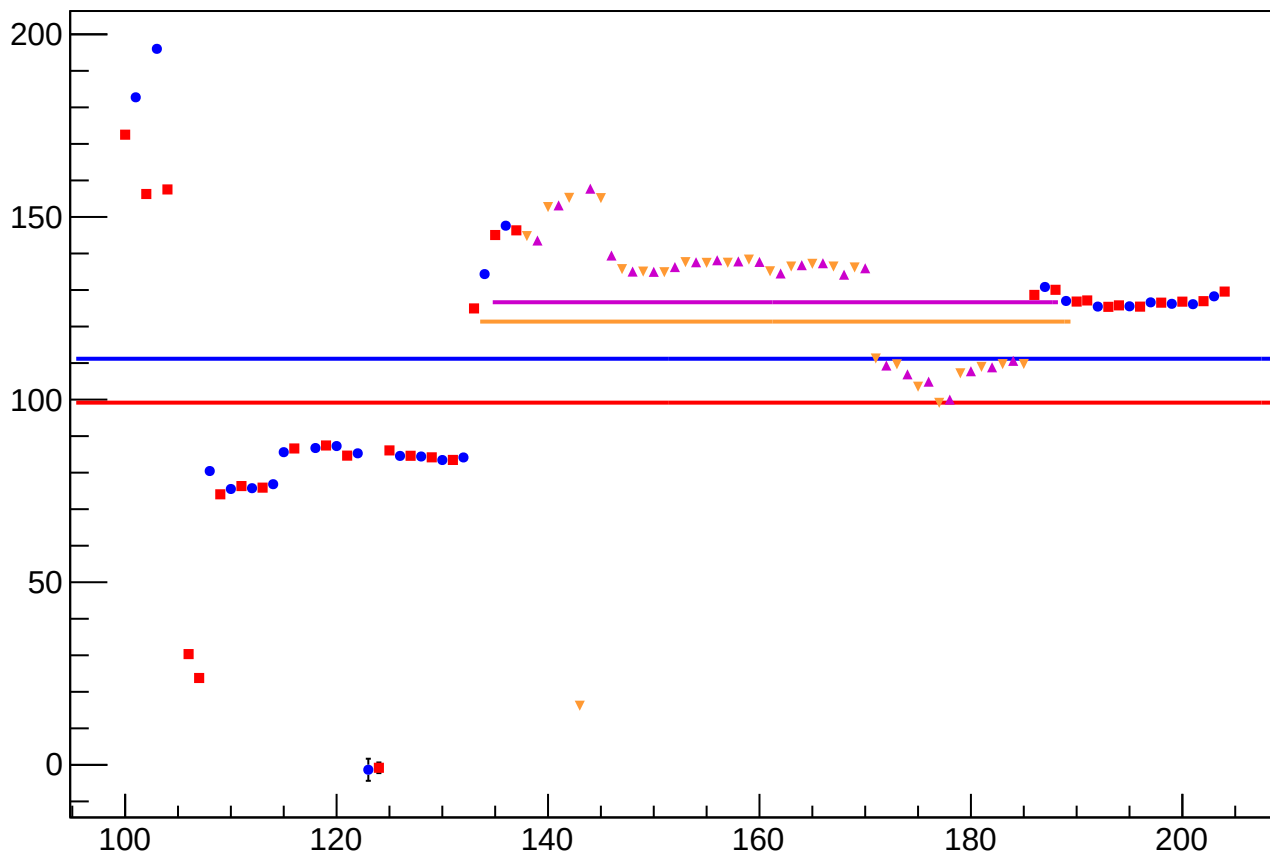
Right: -68.381 ± 0.703 $\chi^2/\text{NDF}: 1934.3/54$

In: -75.192 ± 0.667 $\chi^2/\text{NDF}: 1226.6/47$

Out: -69.704 ± 0.640 $\chi^2/\text{NDF}: 1778.5/54$

All: -72.335 ± 0.462 $\chi^2/\text{NDF}: 3040.4/102$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.183+/-0.058 χ^2/NDF : 307513.9/24

Left Out: 121.356+/-0.040 χ^2/NDF : 481977.3/24

Right Out: 99.167+/-0.052 χ^2/NDF : 568262.4/29

Left In: 126.653+/-0.041 χ^2/NDF : 163046.1/22

Left: 123.954+/-0.029 χ^2/NDF : 653496.6/47

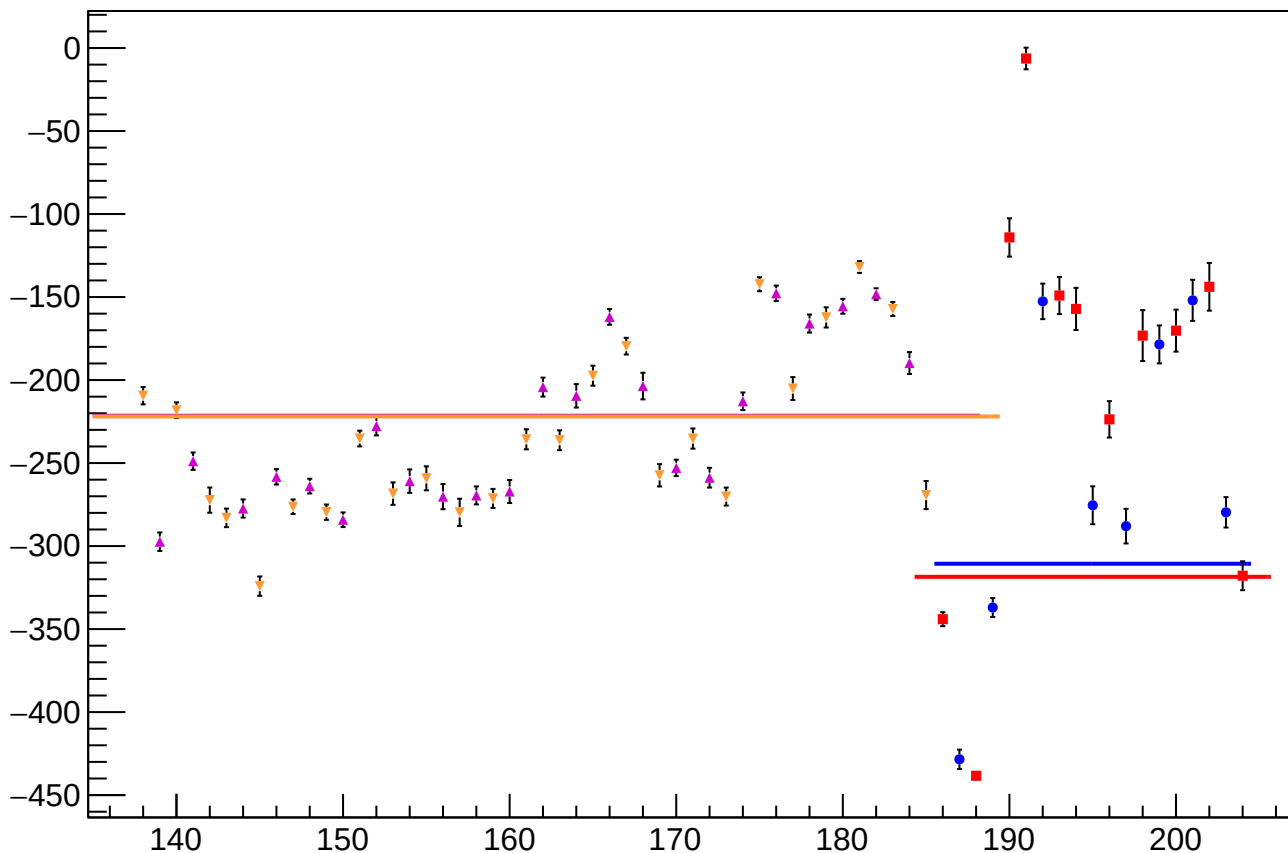
Right: 104.529+/-0.039 χ^2/NDF : 899614.1/54

In: 121.476+/-0.034 χ^2/NDF : 518023.3/47

Out: 113.027+/-0.032 χ^2/NDF : 1164012.5/54

All: 117.038+/-0.023 χ^2/NDF : 1715436.9/102

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -310.637 $\pm$ 2.988 χ^2 /NDF: 971.3/7

Left Out: -221.934 $\pm$ 1.084 χ^2 /NDF:2578.4/24

Right Out: -318.518 $\pm$ 2.012 χ^2 /NDF: 5043.2/10

Left In: -221.483 $\pm$ 1.102 χ^2 /NDF:2149.8/22

Left: -221.712 $\pm$ 0.773 χ^2 /NDF: 4728.2/47

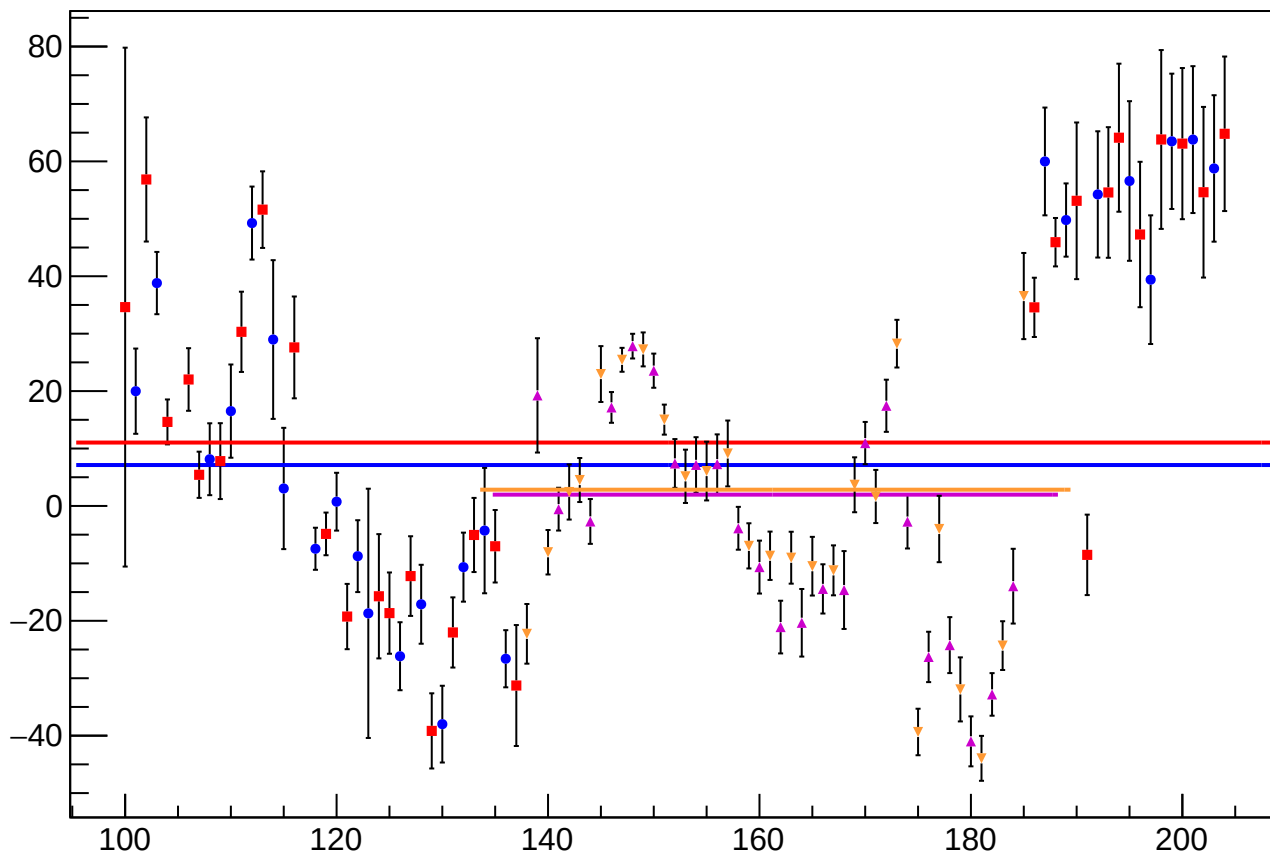
Right: -316.060 $\pm$ 1.669 χ^2 /NDF: 6019.3/18

In: -232.160 $\pm$ 1.034 χ^2 /NDF:3904.6/30

Out: -243.683 $\pm$ 0.955 χ^2 /NDF:9407.8/35

All: -238.382 $\pm$ 0.701 χ^2 /NDF: 13379.5/66

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.126 ± 1.416 χ^2/NDF : 430.6/24

Left Out: 2.832 ± 0.807 χ^2/NDF : 686.9/24

Right Out: 11.040 ± 1.223 χ^2/NDF : 471.9/29

Left In: 1.969 ± 0.835 χ^2/NDF : 589.1/22

Left: 2.415 ± 0.580 χ^2/NDF : 1276.5/47

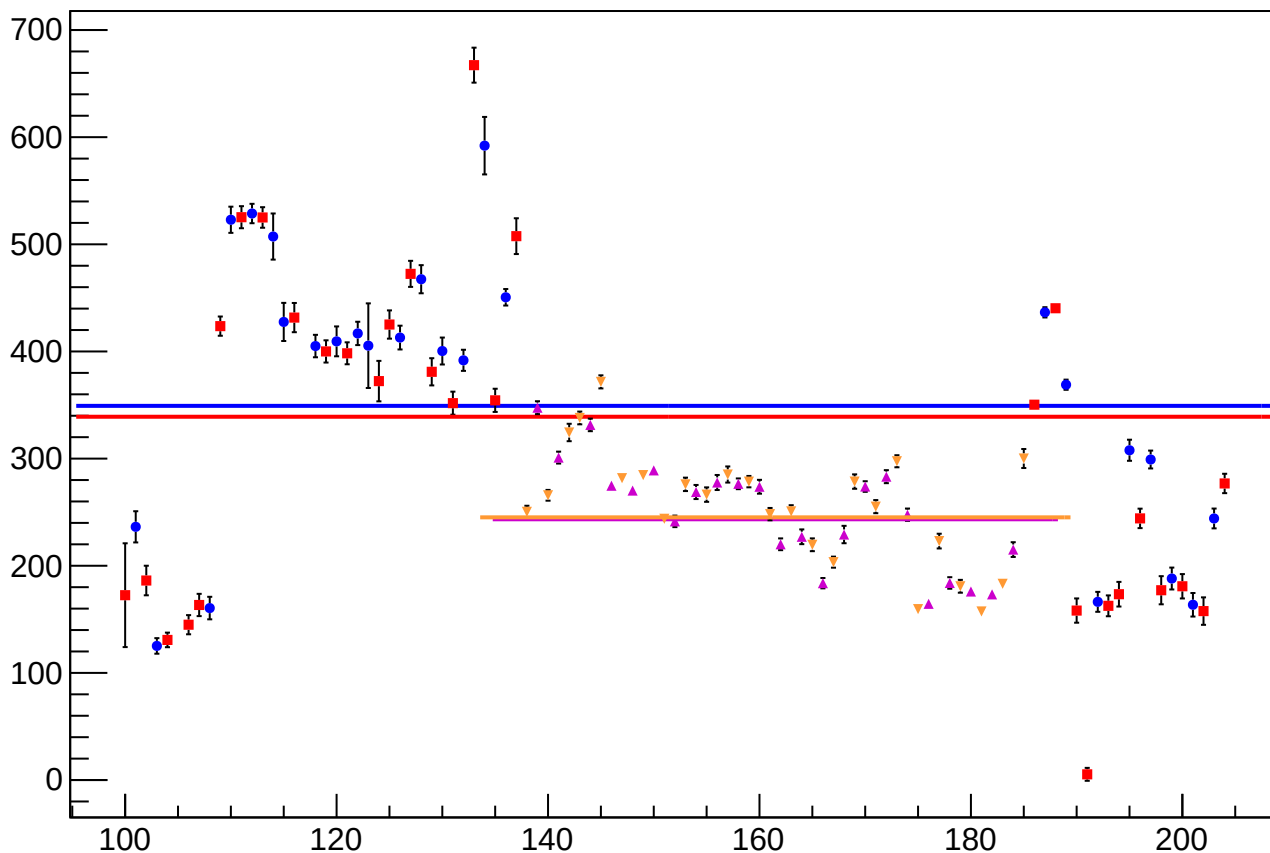
Right: 9.368 ± 0.925 χ^2/NDF : 906.9/54

In: 3.299 ± 0.719 χ^2/NDF : 1029.6/47

Out: 5.323 ± 0.674 χ^2/NDF : 1190.2/54

All: 4.377 ± 0.492 χ^2/NDF : 2224.0/102

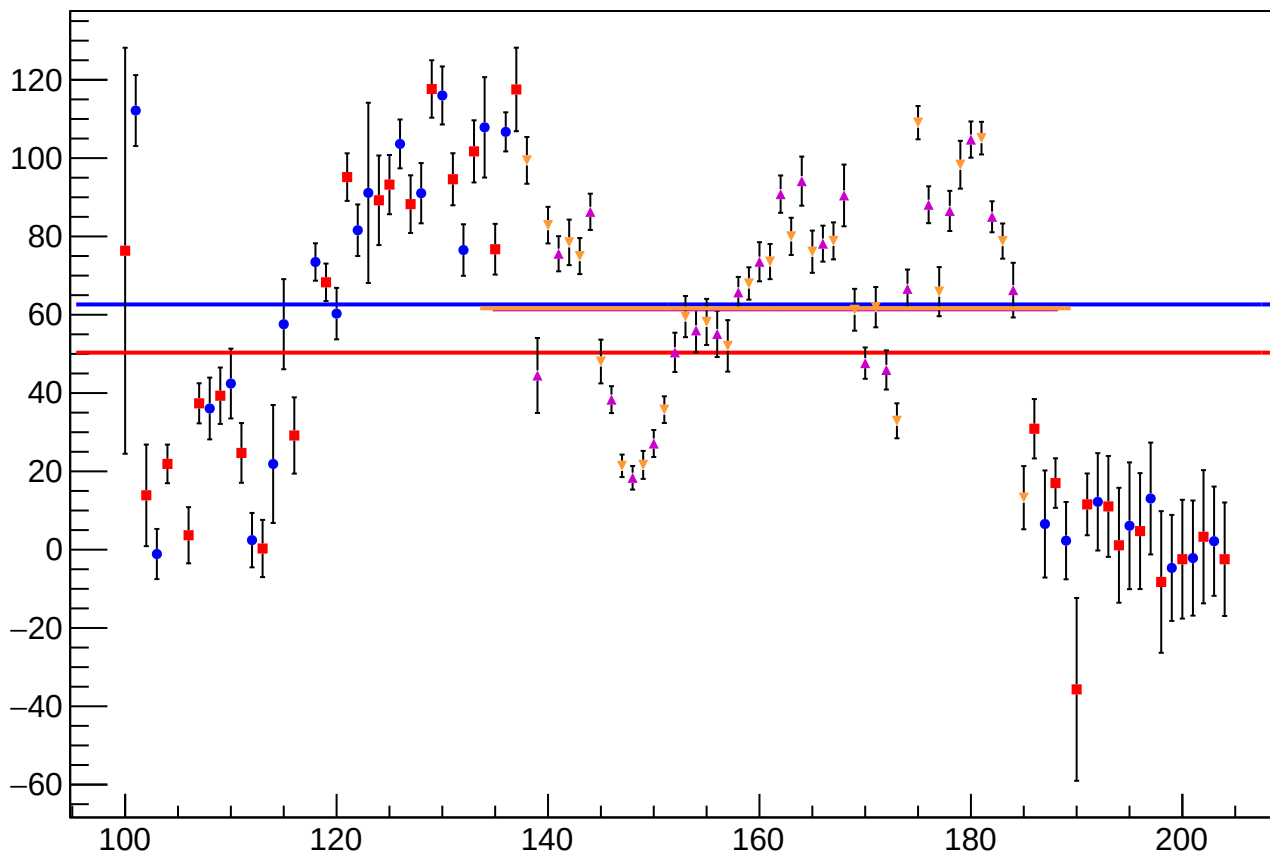
reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 349.234+/-1.881 χ^2/NDF : 3948.3/24
 Left Out: 245.179+/-1.082 χ^2/NDF : 2597.4/24
 Right Out: 339.074+/-1.406 χ^2/NDF : 9702.7/29
 Left In: 243.366+/-1.094 χ^2/NDF : 2236.7/22

Left: 244.282+/-0.769 χ^2/NDF : 4835.5/47
 Right: 342.716+/-1.126 χ^2/NDF : 13669.8/54
 In: 270.123+/-0.945 χ^2/NDF : 8553.4/47
 Out: 280.117+/-0.857 χ^2/NDF : 15102.0/54
 All: 275.606+/-0.635 χ^2/NDF : 23716.8/102

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 62.631 ± 1.653 $\chi^2/\text{NDF}: 604.3/24$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 50.323 ± 1.465 $\chi^2/\text{NDF}: 666.6/29$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

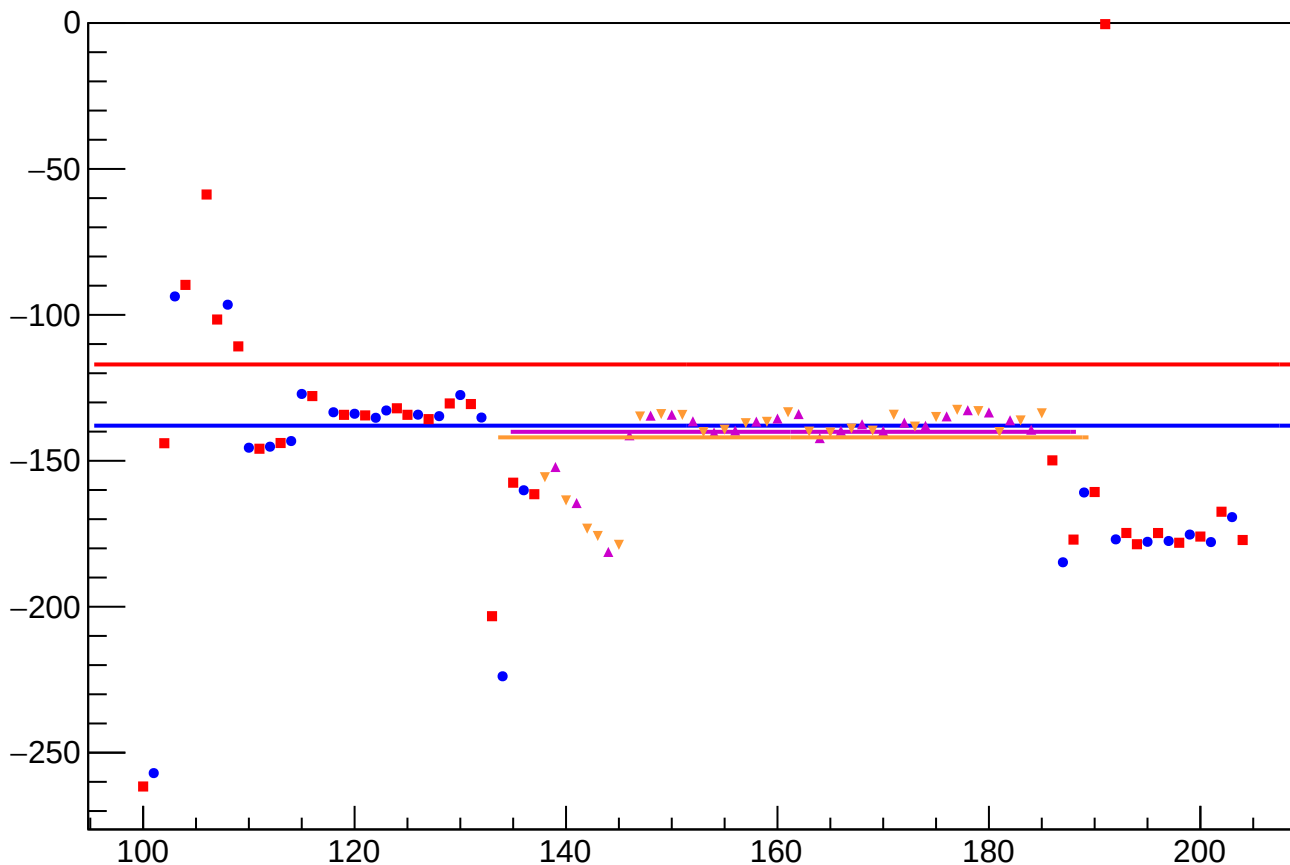
Right: 55.737 ± 1.096 $\chi^2/\text{NDF}: 1301.9/54$

In: 61.693 ± 0.831 $\chi^2/\text{NDF}: 1304.4/47$

Out: 58.363 ± 0.789 $\chi^2/\text{NDF}: 1580.6/54$

All: 59.942 ± 0.572 $\chi^2/\text{NDF}: 2893.4/102$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -137.960 ± 0.079 $\chi^2/\text{NDF}: 232588.5/24$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -116.988 ± 0.069 $\chi^2/\text{NDF}: 606804.1/29$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

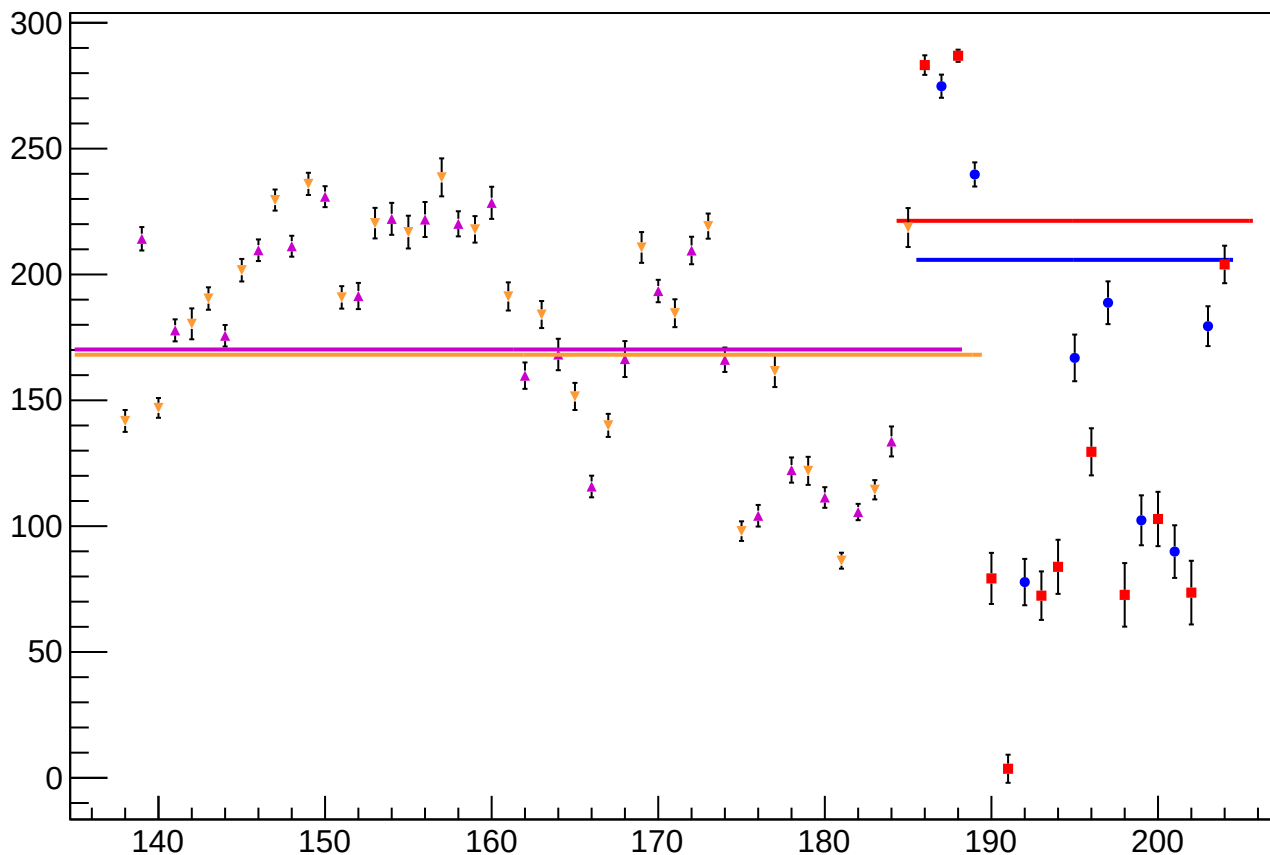
Right: -126.017 ± 0.052 $\chi^2/\text{NDF}: 879674.7/54$

In: -139.550 ± 0.039 $\chi^2/\text{NDF}: 281158.6/47$

Out: -134.518 ± 0.037 $\chi^2/\text{NDF}: 780210.0/54$

All: -136.926 ± 0.027 $\chi^2/\text{NDF}: 1070011.8/10$

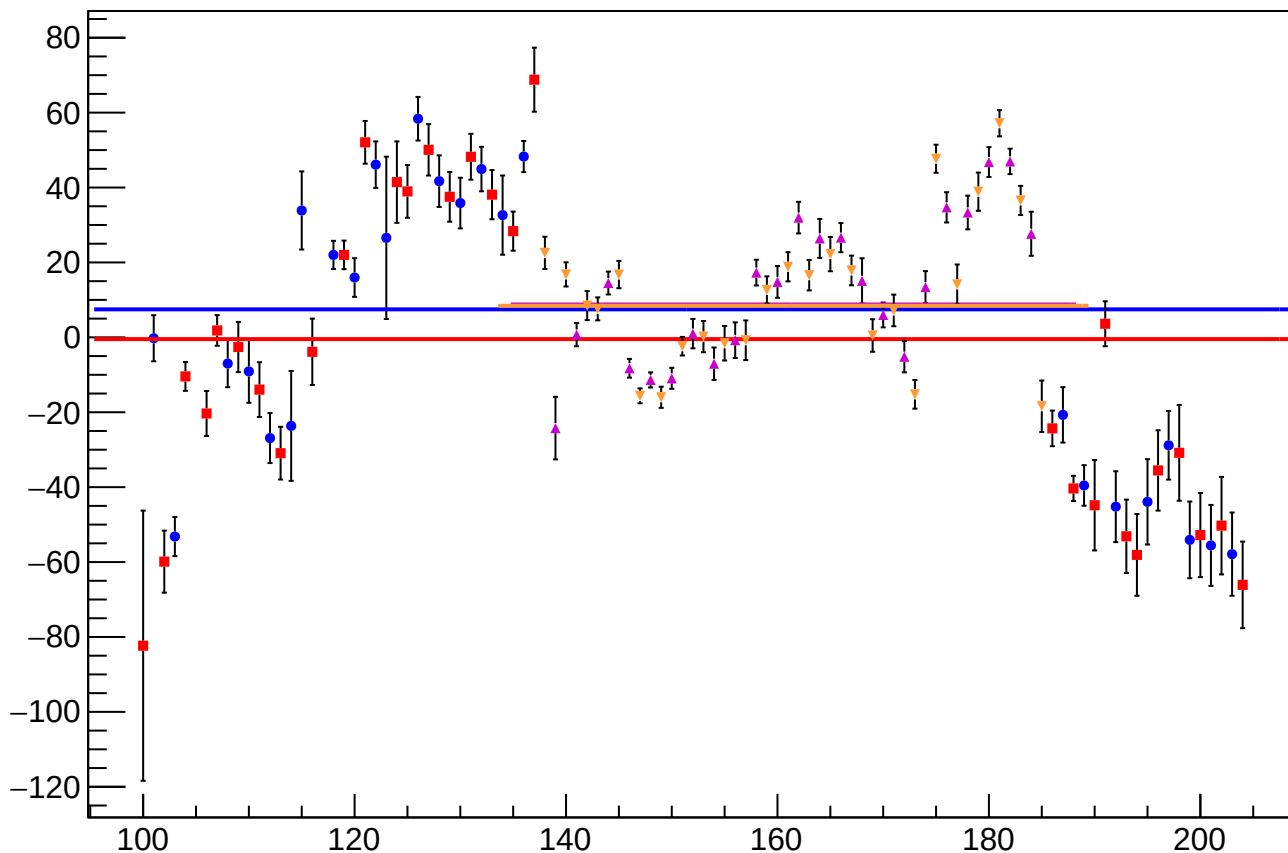
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 205.814 $\pm$ 2.476 χ^2 /NDF: 732.4/7
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 221.324 $\pm$ 1.690 χ^2 /NDF: 3609.1/10
 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: 216.393 $\pm$ 1.396 χ^2 /NDF: 4368.3/18
 In: 175.155 $\pm$ 0.924 χ^2 /NDF:2935.1/30
 Out: 181.296 $\pm$ 0.841 χ^2 /NDF:6823.6/35
 All: 178.510 $\pm$ 0.622 χ^2 /NDF: 9782.8/66

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.475 ± 1.346 $\chi^2/\text{NDF}: 762.2/24$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -0.466 ± 1.164 $\chi^2/\text{NDF}: 864.6/29$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

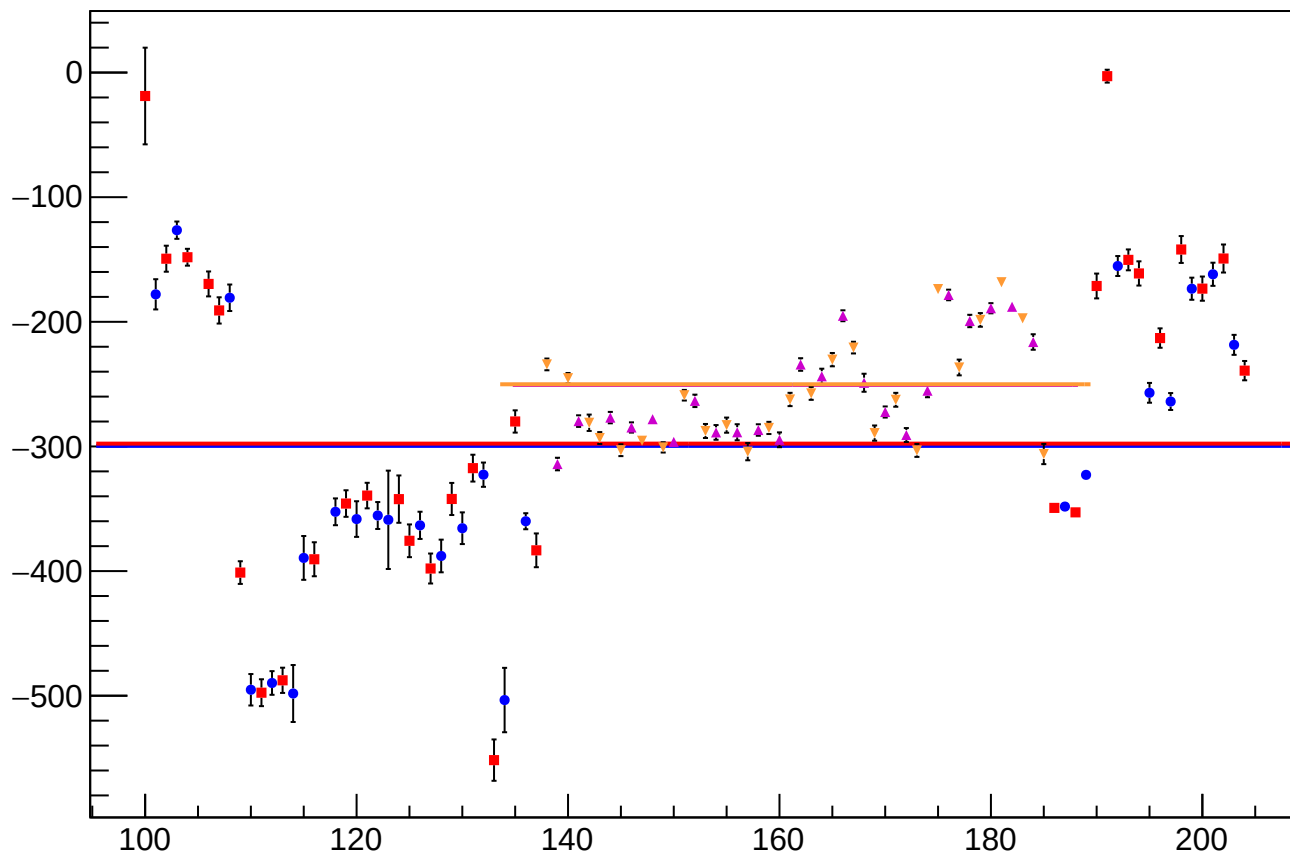
Right: 2.931 ± 0.880 $\chi^2/\text{NDF}: 1646.7/54$

In: 8.457 ± 0.661 $\chi^2/\text{NDF}: 1389.8/47$

Out: 5.932 ± 0.617 $\chi^2/\text{NDF}: 1658.7/54$

All: 7.109 ± 0.451 $\chi^2/\text{NDF}: 3056.2/102$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -299.530+/-1.656 χ^2/NDF : 3030.0/24

Left Out: -250.119+/-0.972 χ^2/NDF :2246.9/24

Right Out: -297.737+/-1.230 χ^2/NDF : 8052.0/29

Left In: -250.628+/-0.990 χ^2/NDF :1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

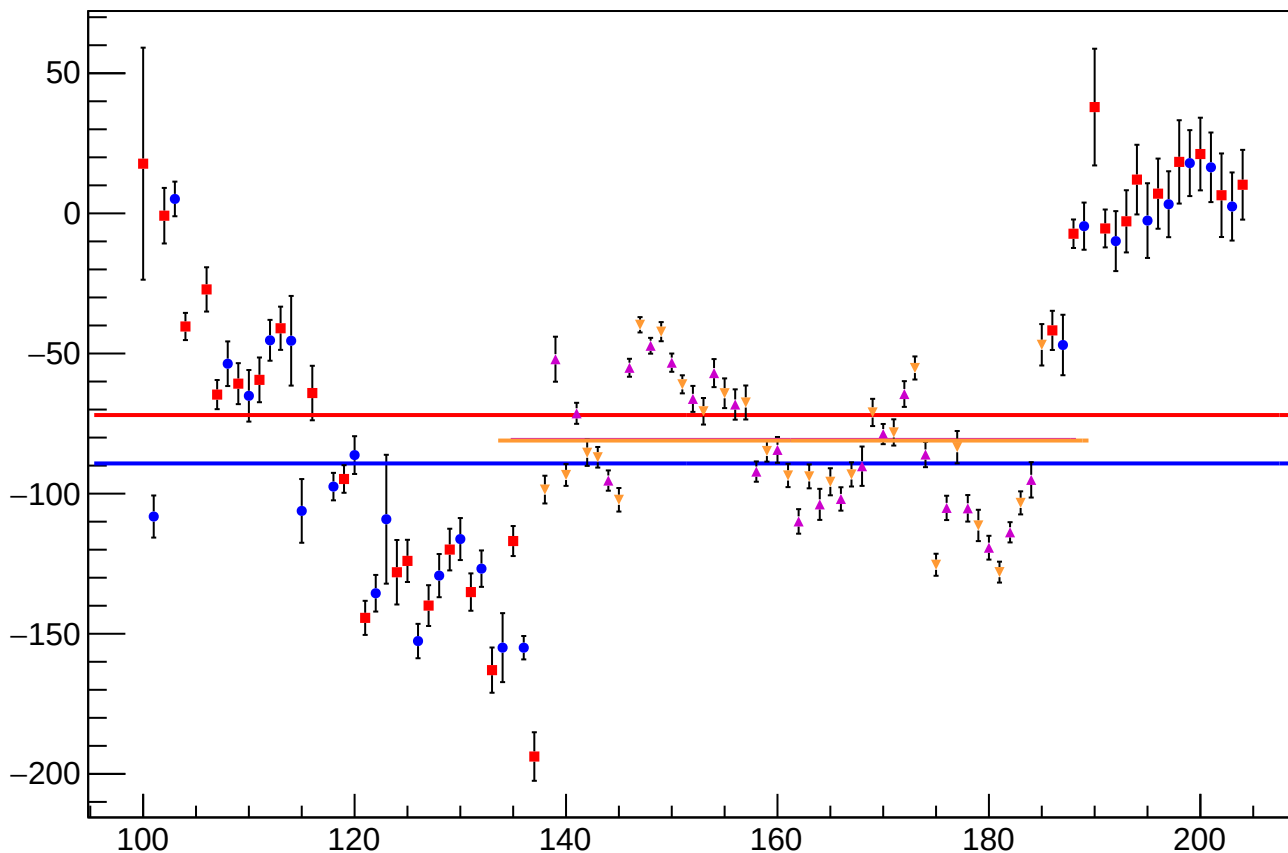
Right: -298.375+/-0.988 χ^2/NDF : 11082.7/54

In: -263.516+/-0.850 χ^2/NDF :5609.7/47

Out: -268.423+/-0.763 χ^2/NDF :11220.9/54

All: -266.234+/-0.568 χ^2/NDF : 16849.0/102

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -89.225 $\pm$ 1.572 χ^2/NDF : 1311.2/24

Left Out: -81.057 $\pm$ 0.843 χ^2/NDF : 913.0/24

Right Out: -71.959 $\pm$ 1.400 χ^2/NDF : 1592.9/29

Left In: -80.834 $\pm$ 0.872 χ^2/NDF : 693.1/22

Left: -80.949 $\pm$ 0.606 χ^2/NDF : 1606.2/47

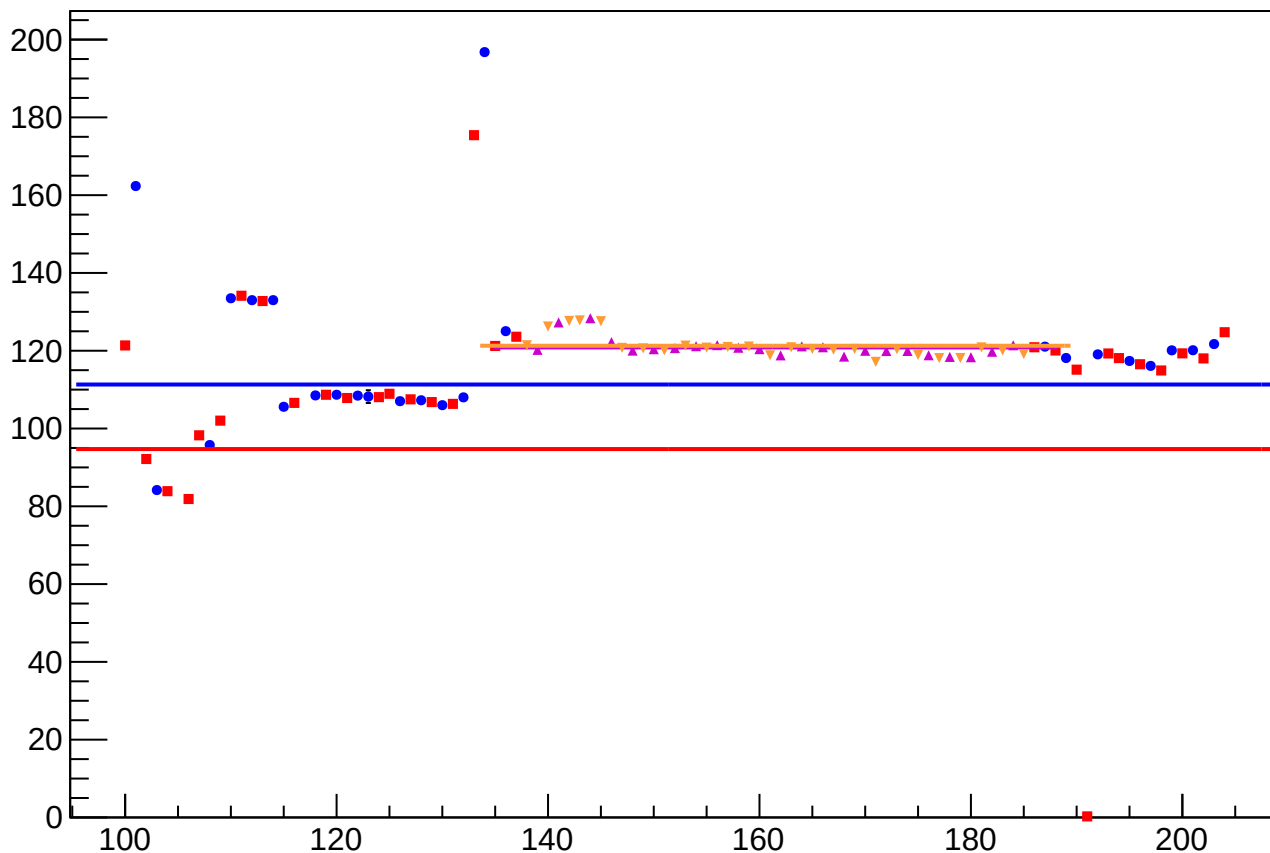
Right: -79.593 $\pm$ 1.045 χ^2/NDF : 2971.4/54

In: -82.807 $\pm$ 0.762 χ^2/NDF : 2026.1/47

Out: -78.635 $\pm$ 0.722 χ^2/NDF : 2537.0/54

All: -80.608 $\pm$ 0.524 χ^2/NDF : 4578.9/102

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.315 $\pm$ 0.073 χ^2 /NDF: 77632.7/24

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 94.717 $\pm$ 0.063 χ^2 /NDF: 359649.8/29

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

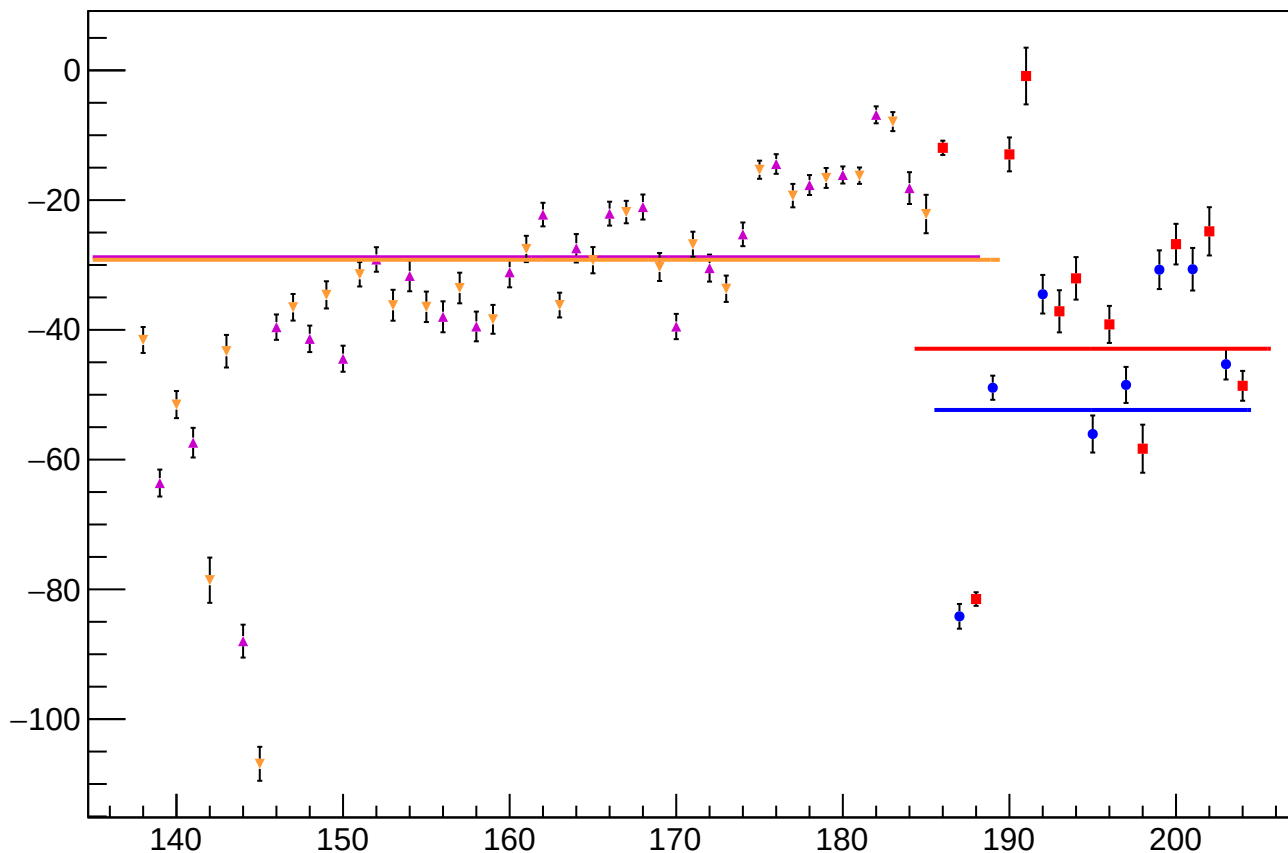
Right: 101.853 $\pm$ 0.048 χ^2 /NDF: 466914.4/54

In: 118.574 $\pm$ 0.036 χ^2 /NDF: 94053.2/47

Out: 113.661 $\pm$ 0.034 χ^2 /NDF: 490497.6/54

All: 116.001 $\pm$ 0.025 χ^2 /NDF: 594574.6/102

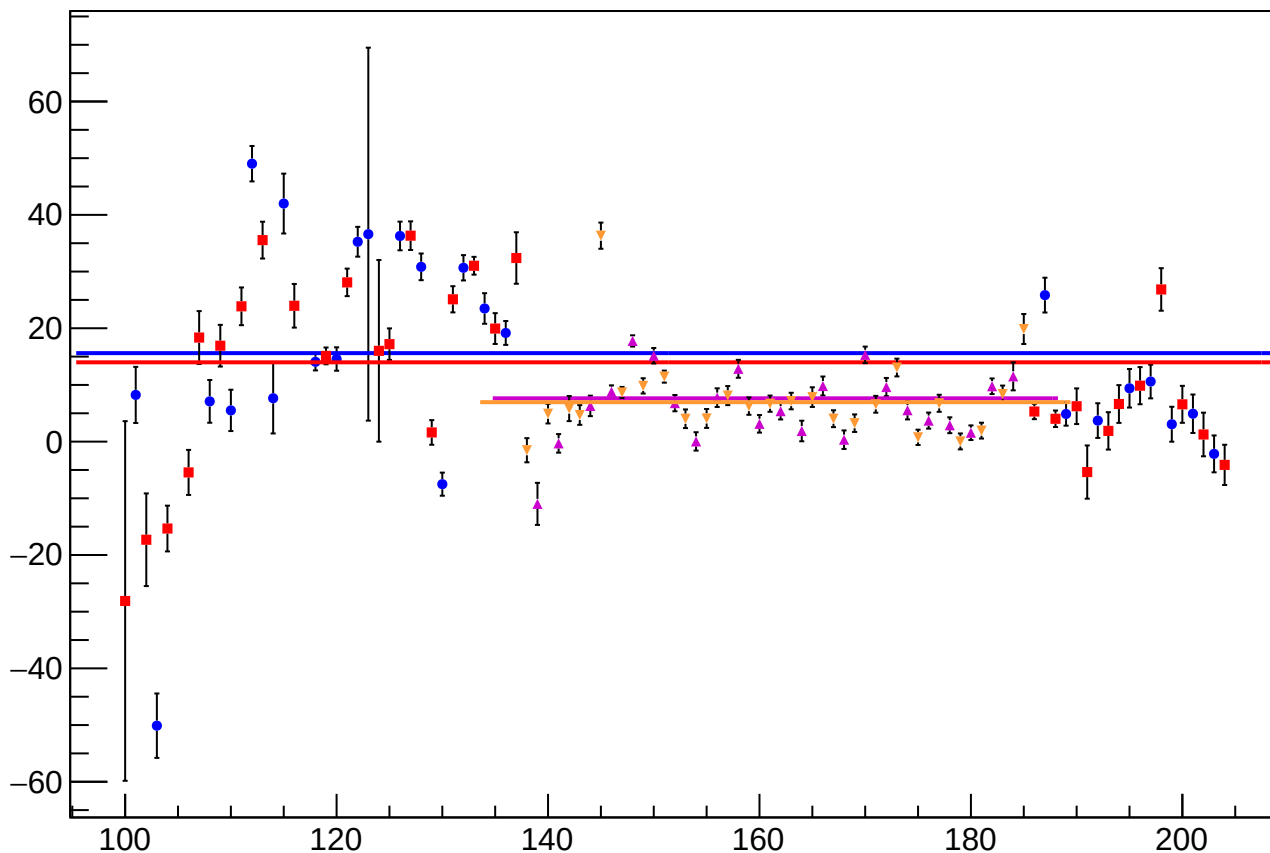
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -52.347 ± 0.872 $\chi^2/\text{NDF}: 426.5/7$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -42.909 ± 0.610 $\chi^2/\text{NDF}: 2461.1/10$
 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: -46.012 ± 0.500 $\chi^2/\text{NDF}: 2966.2/18$
 In: -32.821 ± 0.360 $\chi^2/\text{NDF}: 2794.4/30$
 Out: -33.152 ± 0.328 $\chi^2/\text{NDF}: 4701.6/35$
 All: -33.002 ± 0.242 $\chi^2/\text{NDF}: 7496.5/66$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.611 ± 0.553 χ^2/NDF : 757.7/24

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 13.989 ± 0.490 χ^2/NDF : 647.7/29

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

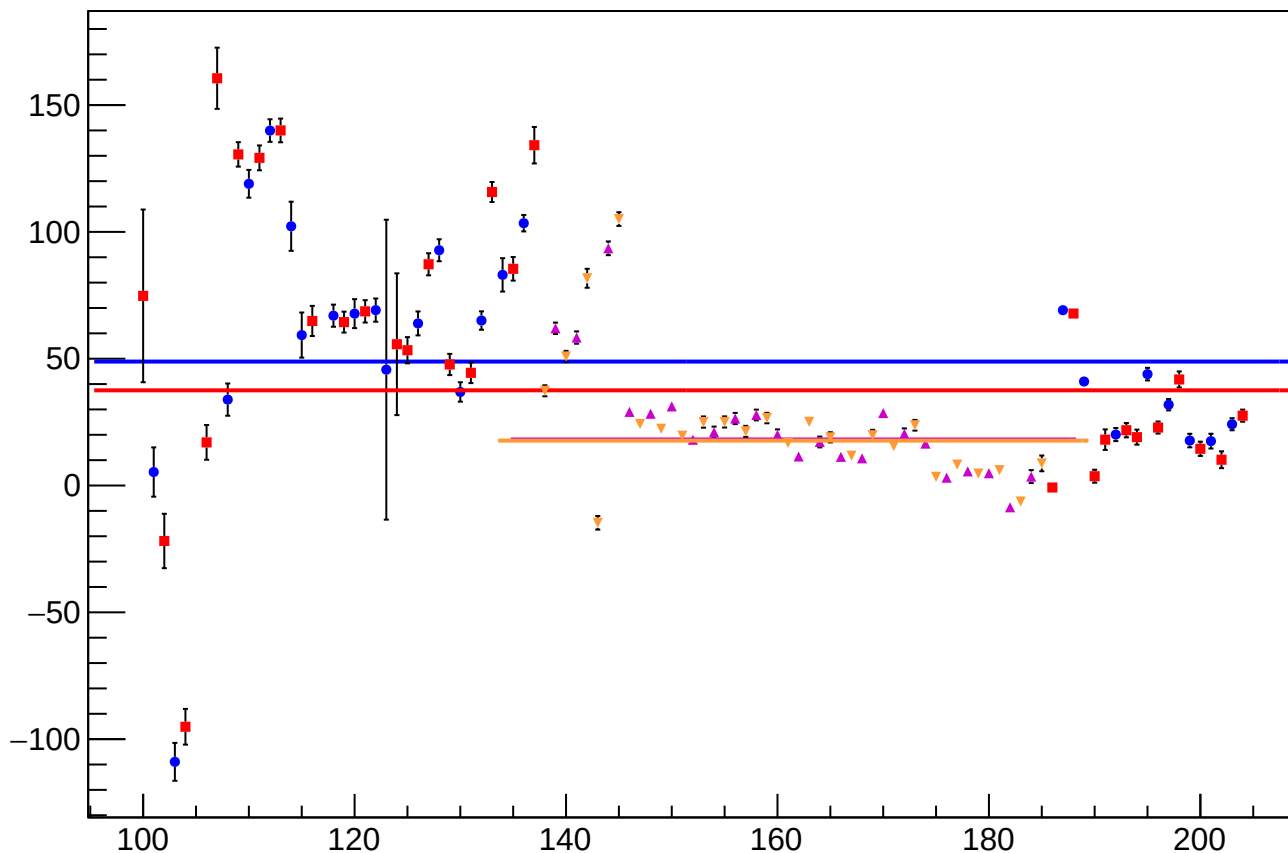
Right: 14.702 ± 0.366 χ^2/NDF : 1410.2/54

In: 9.578 ± 0.273 χ^2/NDF : 1252.8/47

Out: 8.907 ± 0.258 χ^2/NDF : 1118.1/54

All: 9.223 ± 0.187 χ^2/NDF : 2374.1/102

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 48.872 $\pm$ 0.644 χ^2 /NDF: 2323.0/24

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF: 2432.2/24

Right Out: 37.534 $\pm$ 0.472 χ^2 /NDF: 6292.8/29

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

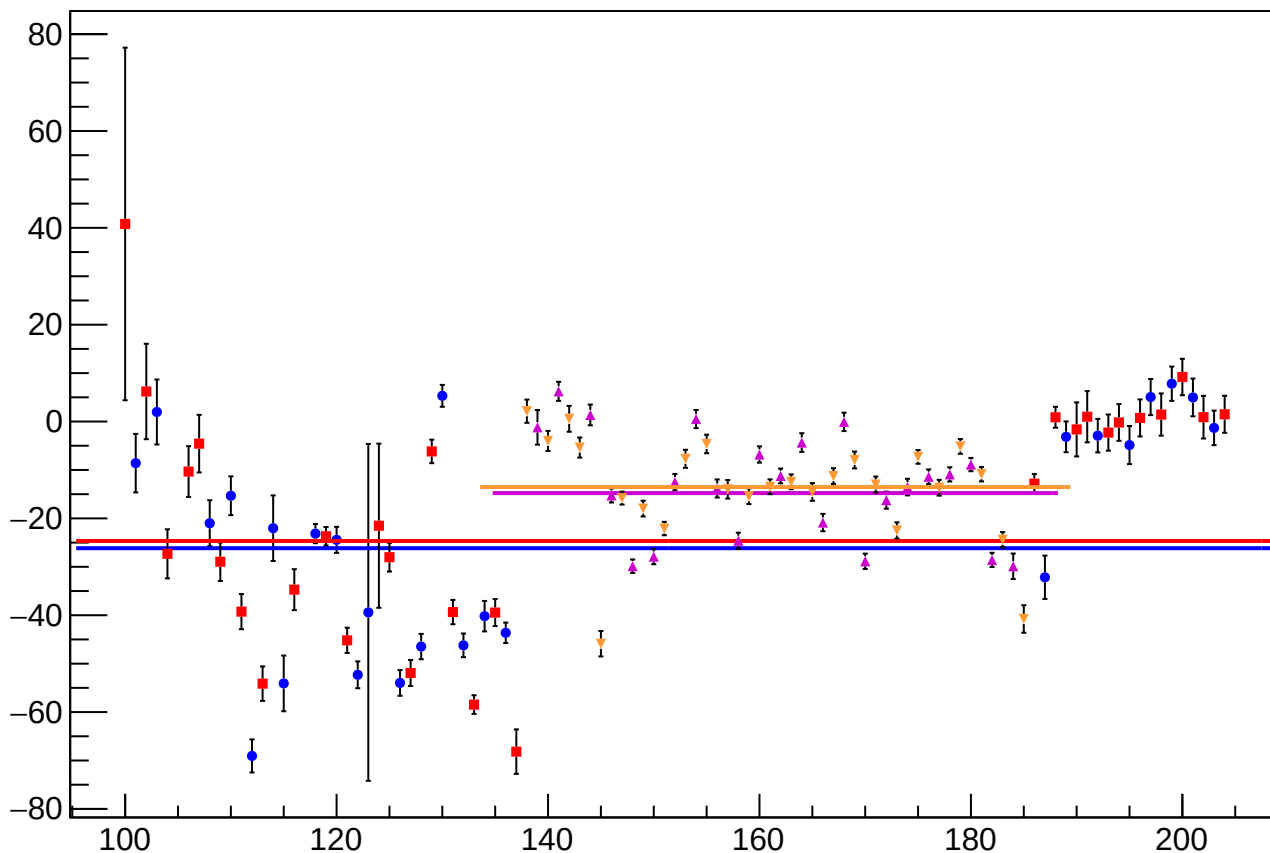
Right: 41.496 $\pm$ 0.381 χ^2 /NDF: 8817.3/54

In: 26.470 $\pm$ 0.335 χ^2 /NDF: 6320.8/47

Out: 25.679 $\pm$ 0.299 χ^2 /NDF: 9779.5/54

All: 26.030 $\pm$ 0.223 χ^2 /NDF: 16103.4/102

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.157 ± 0.647 $\chi^2/\text{NDF}: 1231.3/24$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -24.663 ± 0.594 $\chi^2/\text{NDF}: 1343.9/29$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

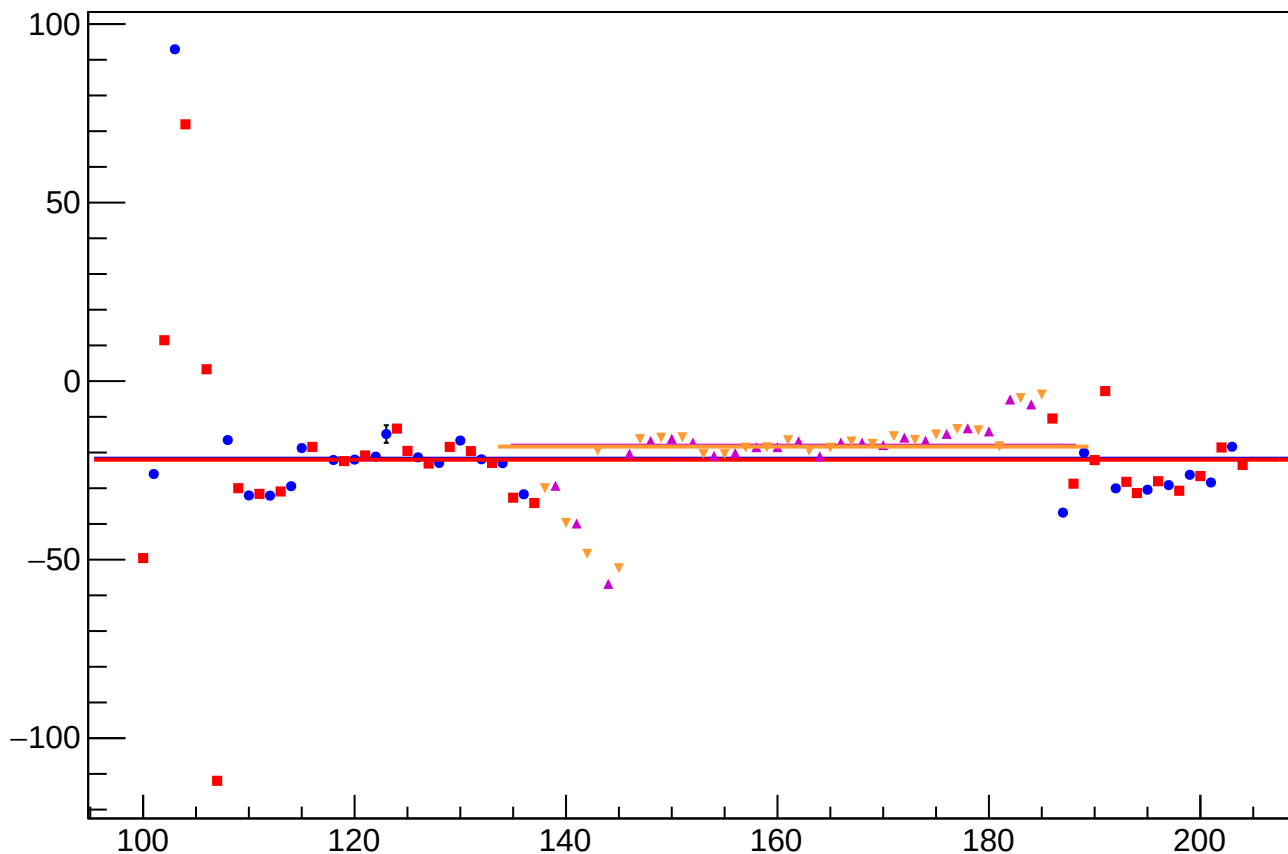
Right: -25.347 ± 0.438 $\chi^2/\text{NDF}: 2578.1/54$

In: -17.401 ± 0.311 $\chi^2/\text{NDF}: 2307.4/47$

Out: -16.325 ± 0.298 $\chi^2/\text{NDF}: 2179.4/54$

All: -16.840 ± 0.215 $\chi^2/\text{NDF}: 4493.1/102$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.729 ± 0.031 $\chi^2/\text{NDF}: 513257.9/24$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -22.005 ± 0.029 $\chi^2/\text{NDF}: 486484.6/29$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

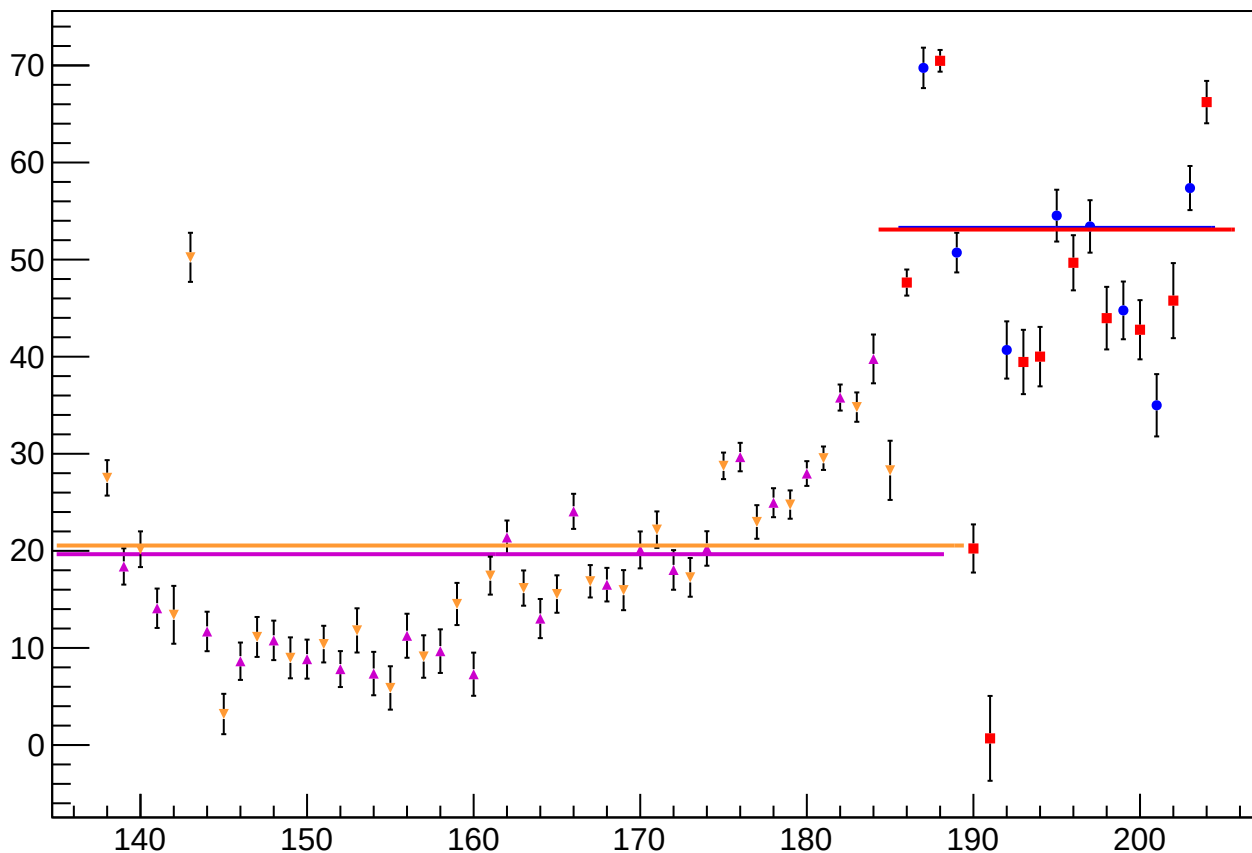
Right: -21.877 ± 0.021 $\chi^2/\text{NDF}: 999784.1/54$

In: -18.846 ± 0.014 $\chi^2/\text{NDF}: 765955.5/47$

Out: -19.171 ± 0.014 $\chi^2/\text{NDF}: 782884.5/54$

All: -19.013 ± 0.010 $\chi^2/\text{NDF}: 1549105.4/102$

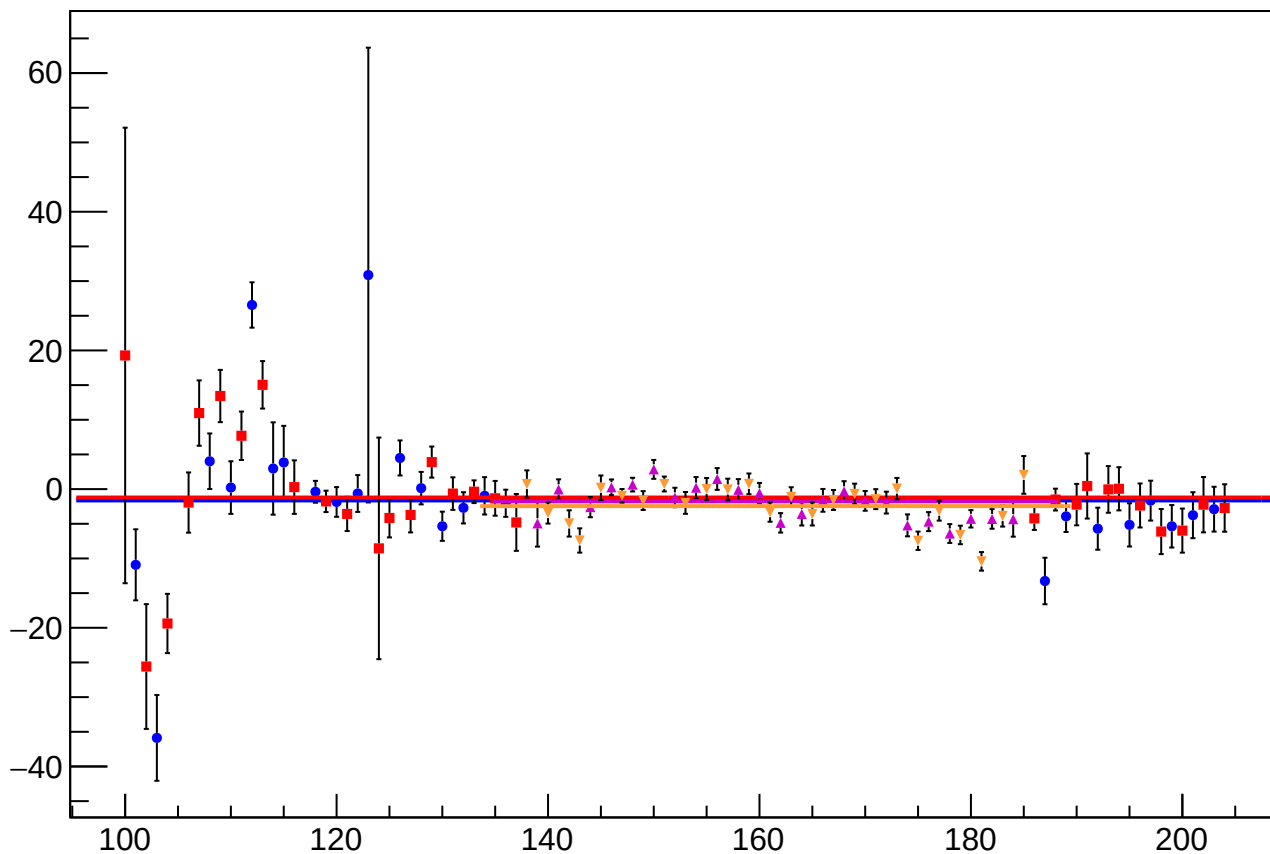
reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 53.267 $\pm$ 0.888 χ^2 /NDF: 126.5/7
 Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24
 Right Out: 53.095 $\pm$ 0.649 χ^2 /NDF: 673.3/10
 Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47
 Right: 53.155 $\pm$ 0.524 χ^2 /NDF: 799.8/18
 In: 24.863 $\pm$ 0.350 χ^2 /NDF: 1907.8/30
 Out: 28.625 $\pm$ 0.323 χ^2 /NDF: 3187.9/35
 All: 26.890 $\pm$ 0.237 χ^2 /NDF: 5158.1/66

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.631 ± 0.560 χ^2/NDF : 141.7/24

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.213 ± 0.508 χ^2/NDF : 95.2/29

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

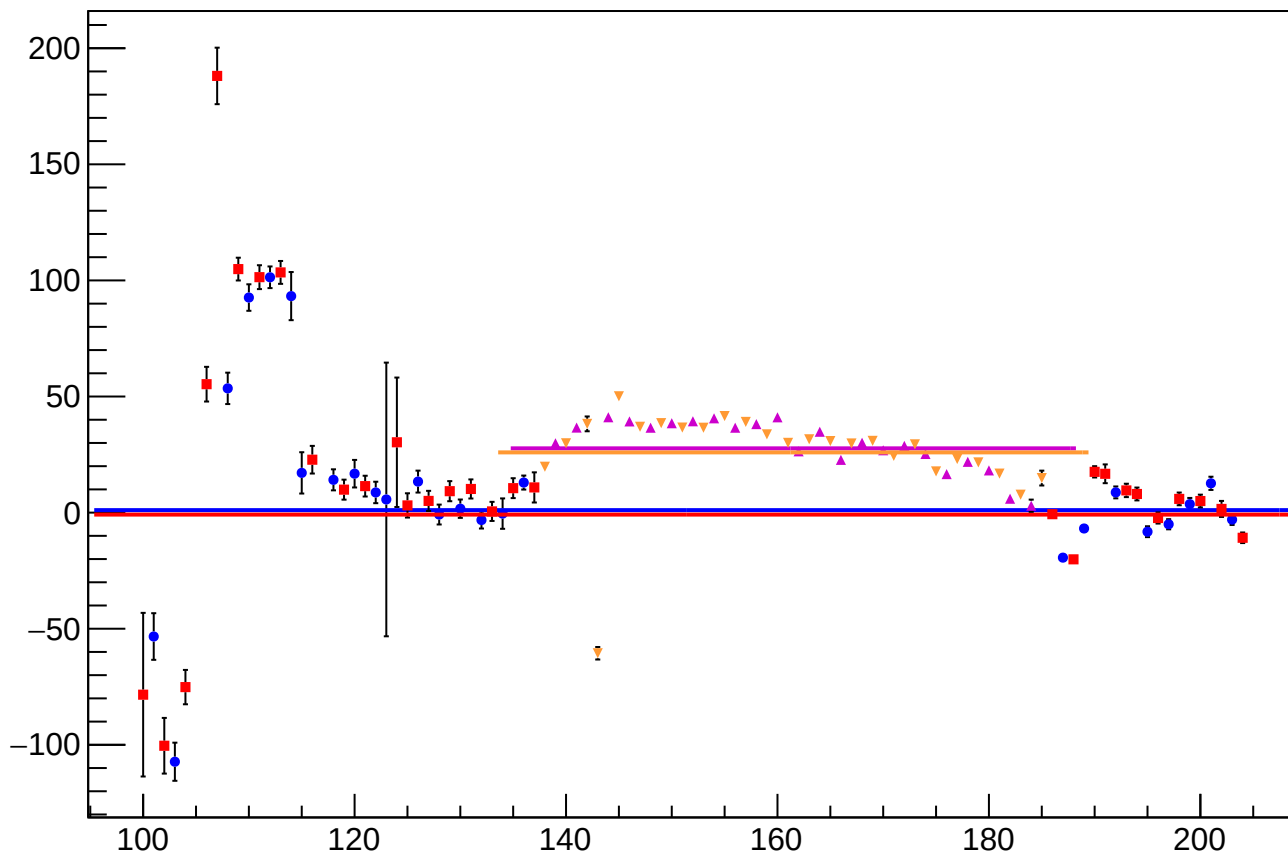
Right: -1.401 ± 0.377 χ^2/NDF : 237.2/54

In: -1.729 ± 0.266 χ^2/NDF : 209.2/47

Out: -2.146 ± 0.253 χ^2/NDF : 205.6/54

All: -1.948 ± 0.183 χ^2/NDF : 416.1/102

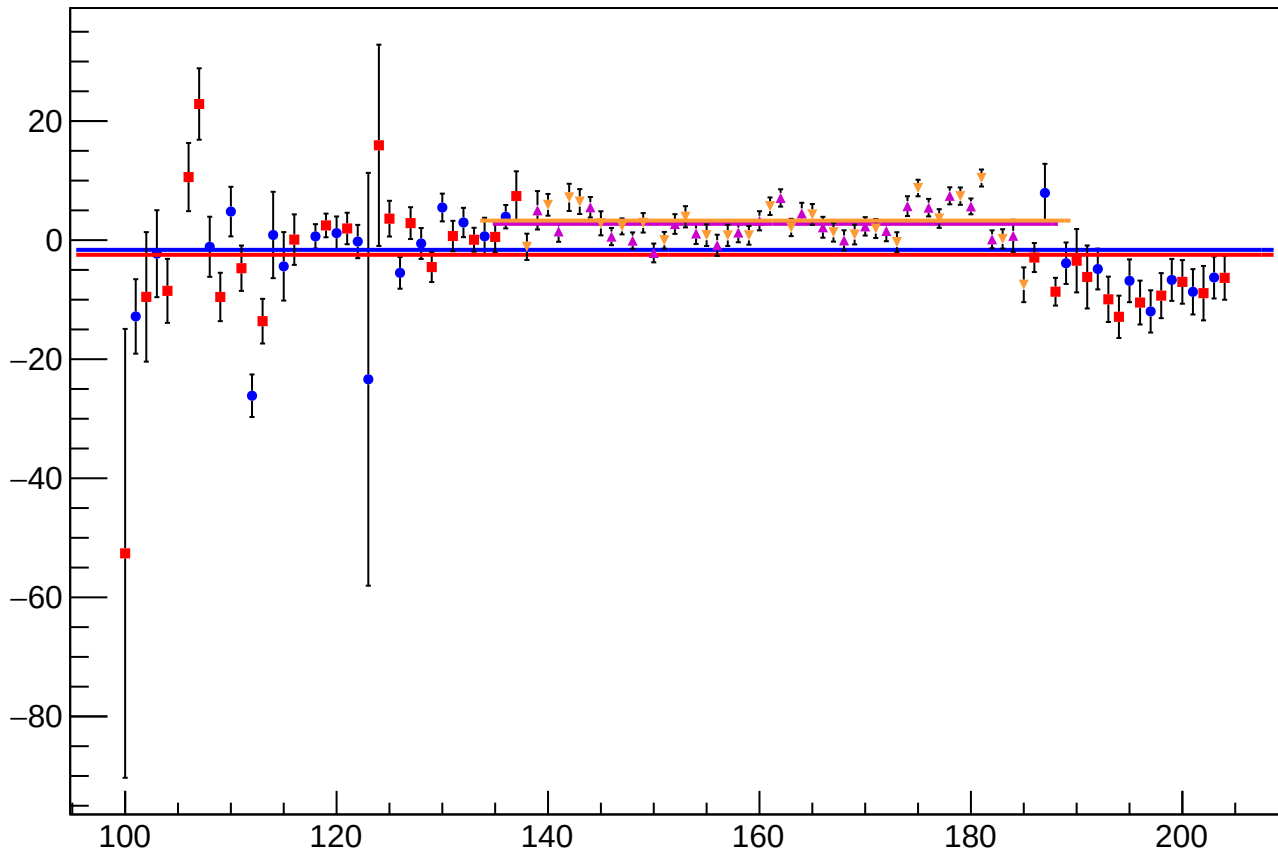
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.071 ± 0.658 $\chi^2/\text{NDF}: 1324.2/24$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -0.846 ± 0.504 $\chi^2/\text{NDF}: 2423.7/29$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: -0.138 ± 0.400 $\chi^2/\text{NDF}: 3753.3/54$
 In: 21.076 ± 0.328 $\chi^2/\text{NDF}: 3355.8/47$
 Out: 16.480 ± 0.299 $\chi^2/\text{NDF}: 5962.7/54$
 All: 18.569 ± 0.221 $\chi^2/\text{NDF}: 9425.6/102$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.630 ± 0.651 χ^2/NDF : 102.3/24

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.462 ± 0.610 χ^2/NDF : 100.8/29

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

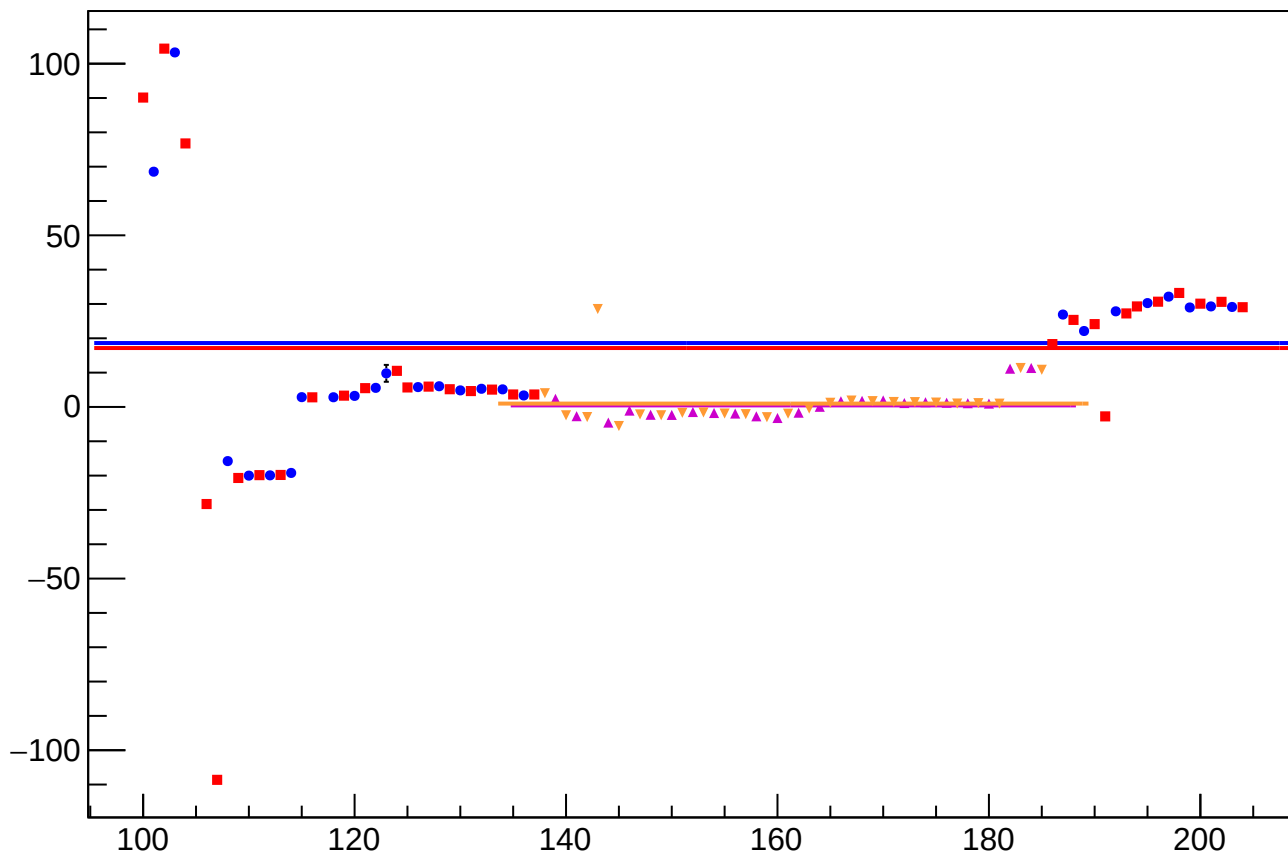
Right: -2.073 ± 0.445 χ^2/NDF : 204.0/54

In: 1.797 ± 0.302 χ^2/NDF : 202.1/47

Out: 1.973 ± 0.291 χ^2/NDF : 271.6/54

All: 1.888 ± 0.210 χ^2/NDF : 473.9/102

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 18.620 $\pm$ 0.031 χ^2 /NDF: 477943.2/24

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 17.162 $\pm$ 0.029 χ^2 /NDF: 712285.1/29

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

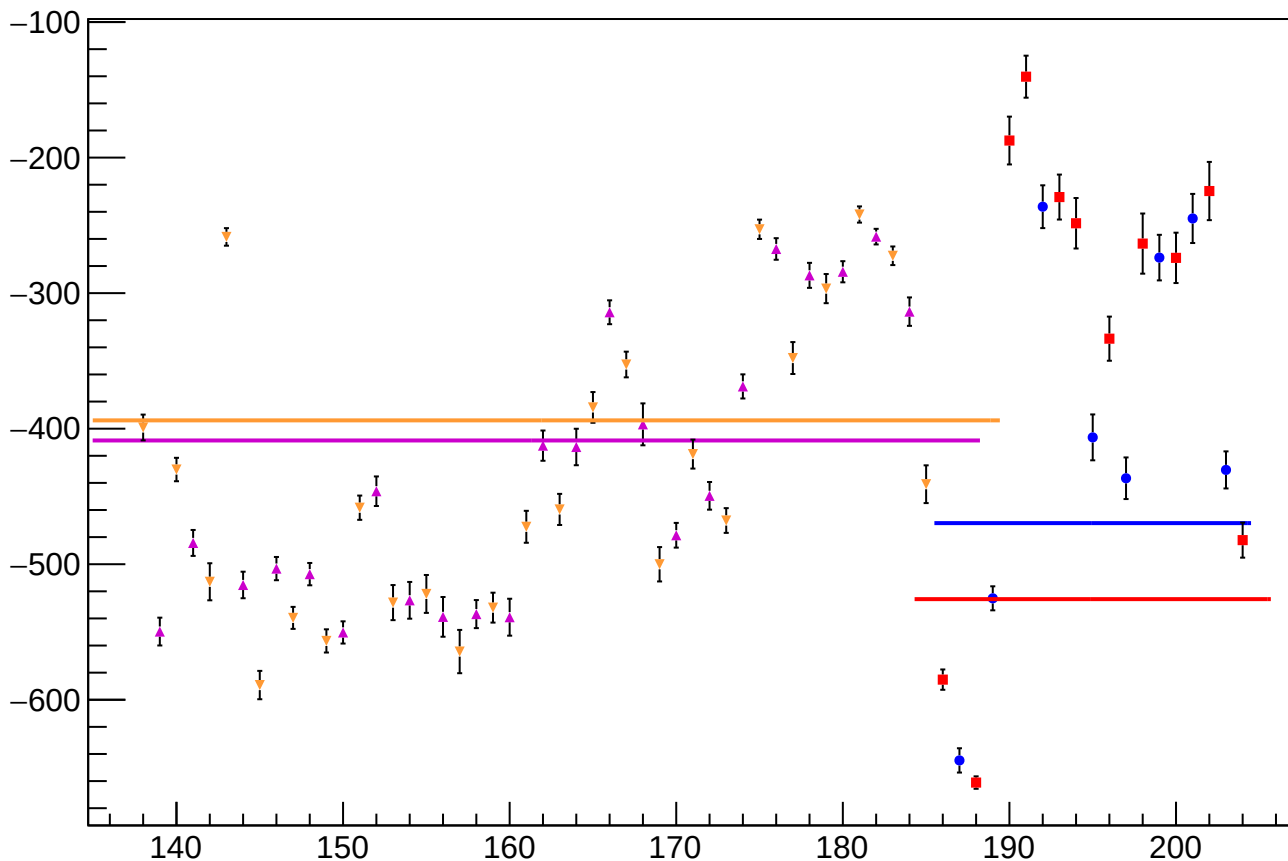
Right: 17.846 $\pm$ 0.021 χ^2 /NDF: 1191405.8/54

In: 4.064 $\pm$ 0.014 χ^2 /NDF: 804341.3/47

Out: 4.445 $\pm$ 0.013 χ^2 /NDF: 1072776.0/54

All: 4.260 $\pm$ 0.010 χ^2 /NDF: 1877507.6/102

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -469.676+/-4.525 χ^2/NDF : 955.6/7

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -525.758+/-3.229 χ^2/NDF : 3129.0/10

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

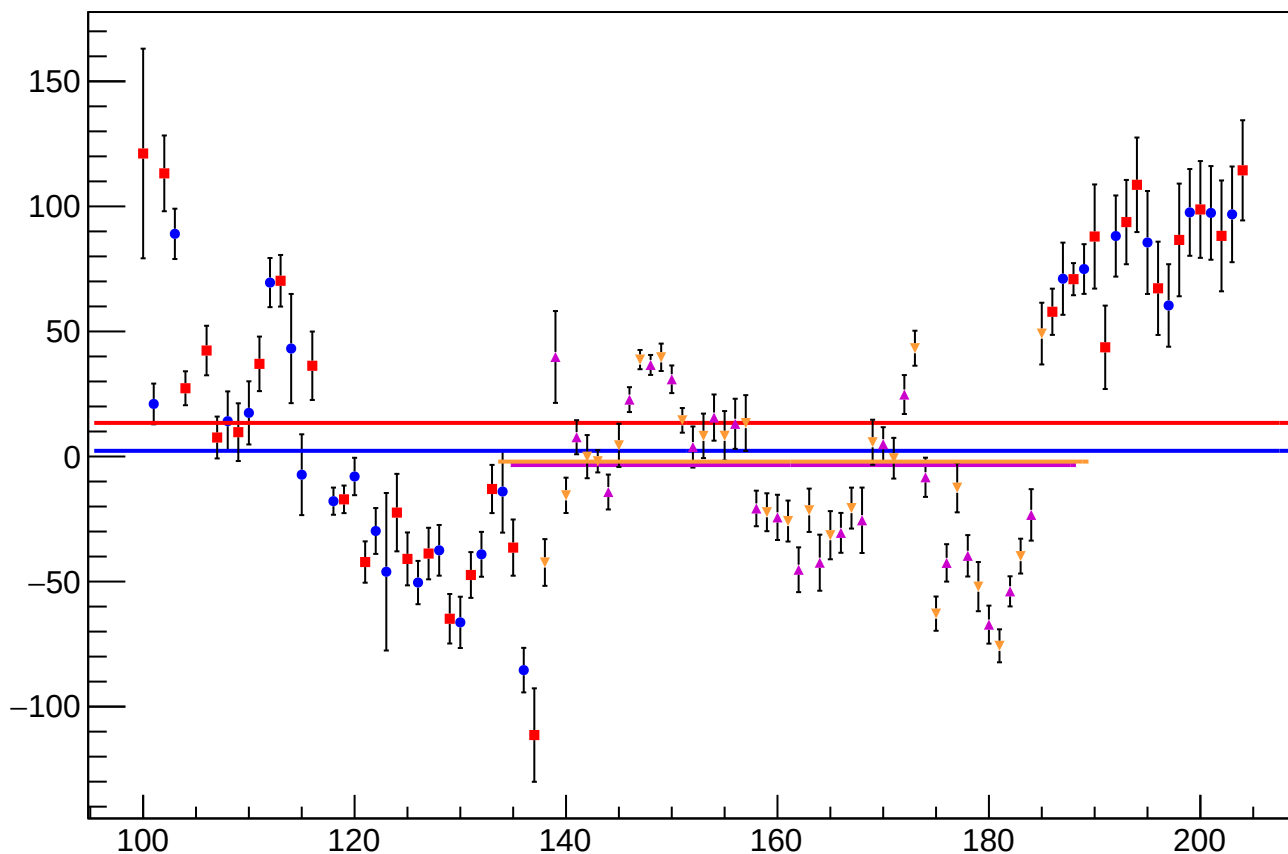
Right: -506.834+/-2.628 χ^2/NDF : 4186.4/18

In: -418.489+/-1.813 χ^2/NDF : 4171.0/30

Out: -427.713+/-1.636 χ^2/NDF : 8142.0/35

All: -423.574+/-1.214 χ^2/NDF : 12327.2/66

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.269 ± 2.160 $\chi^2/\text{NDF}: 593.1/24$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 13.439 ± 1.977 $\chi^2/\text{NDF}: 655.7/29$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

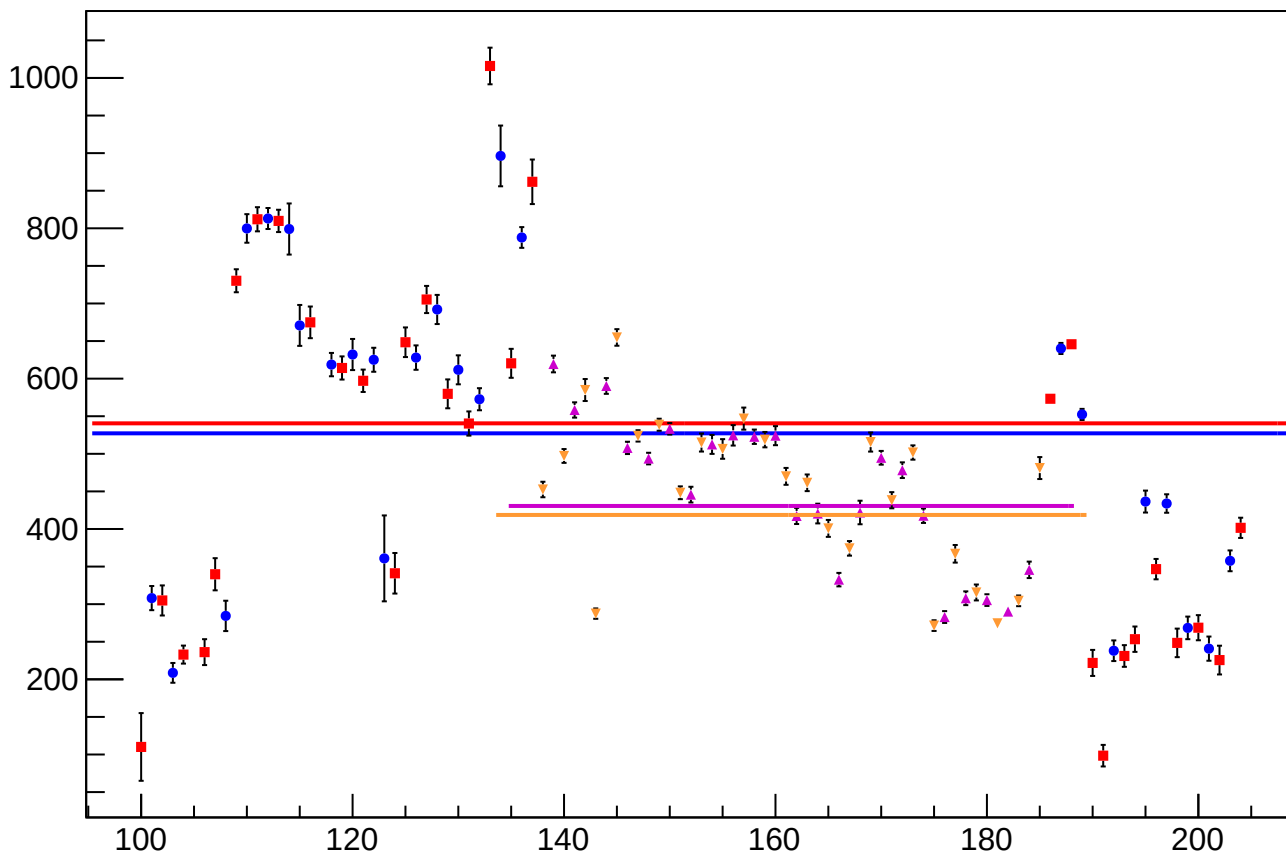
Right: 8.347 ± 1.459 $\chi^2/\text{NDF}: 1263.3/54$

In: -1.536 ± 1.243 $\chi^2/\text{NDF}: 1048.7/47$

Out: 3.249 ± 1.156 $\chi^2/\text{NDF}: 1259.8/54$

All: 1.031 ± 0.846 $\chi^2/\text{NDF}: 2316.4/102$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 527.245 $\pm$ 2.894 χ^2 /NDF: 3869.2/24

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 540.538 $\pm$ 2.258 χ^2 /NDF: 6787.5/29

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

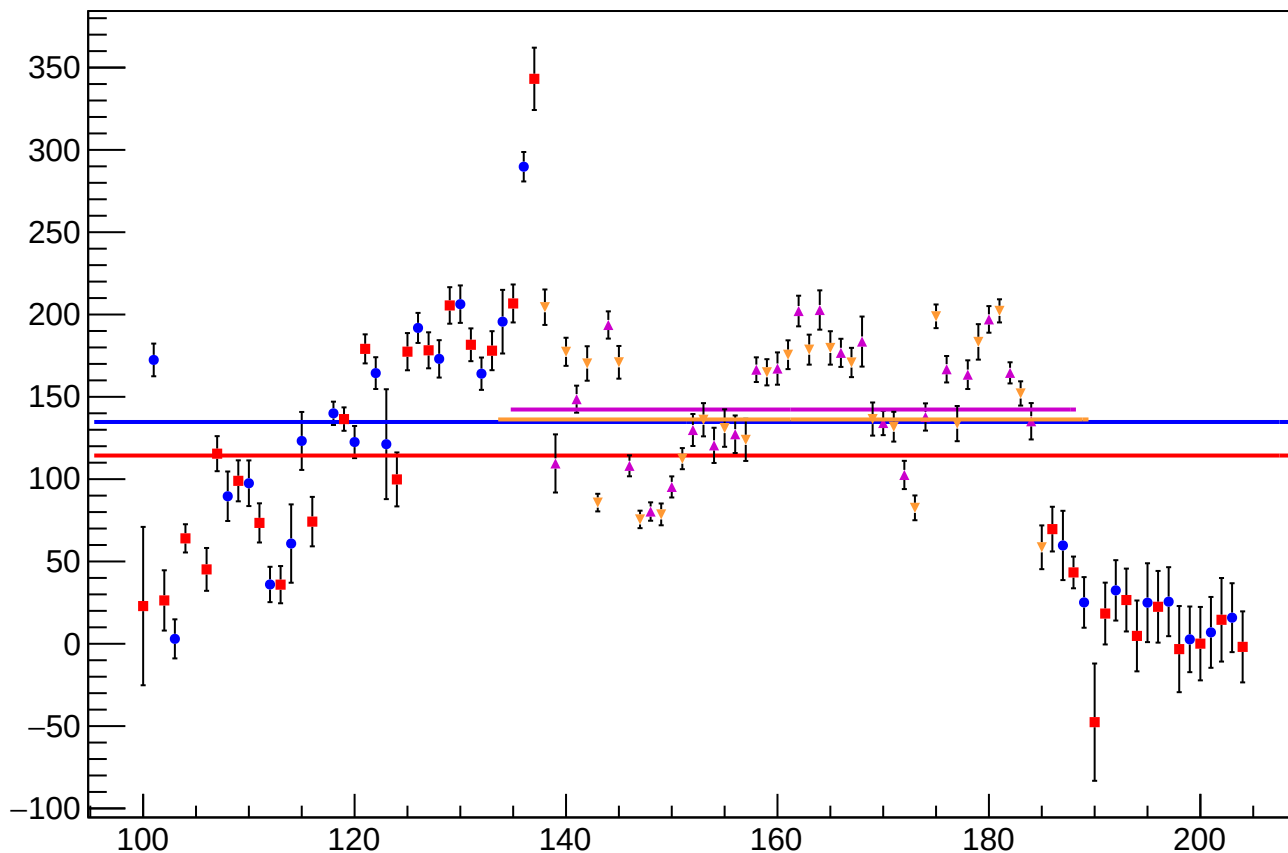
Right: 535.508 $\pm$ 1.780 χ^2 /NDF: 10669.8/54

In: 461.251 $\pm$ 1.629 χ^2 /NDF:7481.2/47

Out: 469.354 $\pm$ 1.456 χ^2 /NDF:11785.8/54

All: 465.755 $\pm$ 1.085 χ^2 /NDF: 19280.7/102

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 134.725 ± 2.531 $\chi^2/\text{NDF}: 923.9/24$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 114.348 ± 2.359 $\chi^2/\text{NDF}: 907.8/29$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

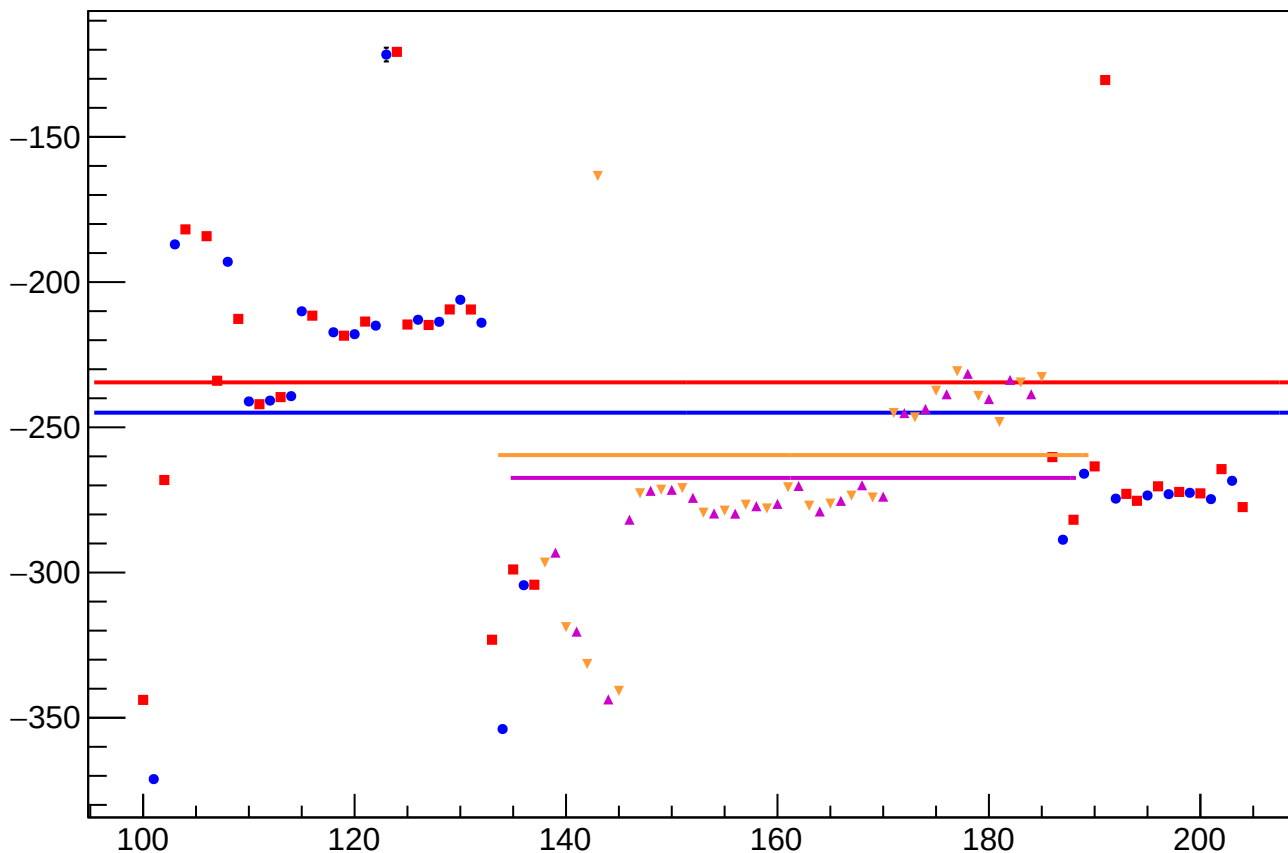
Right: 123.820 ± 1.726 $\chi^2/\text{NDF}: 1866.4/54$

In: 139.858 ± 1.437 $\chi^2/\text{NDF}: 1389.7/47$

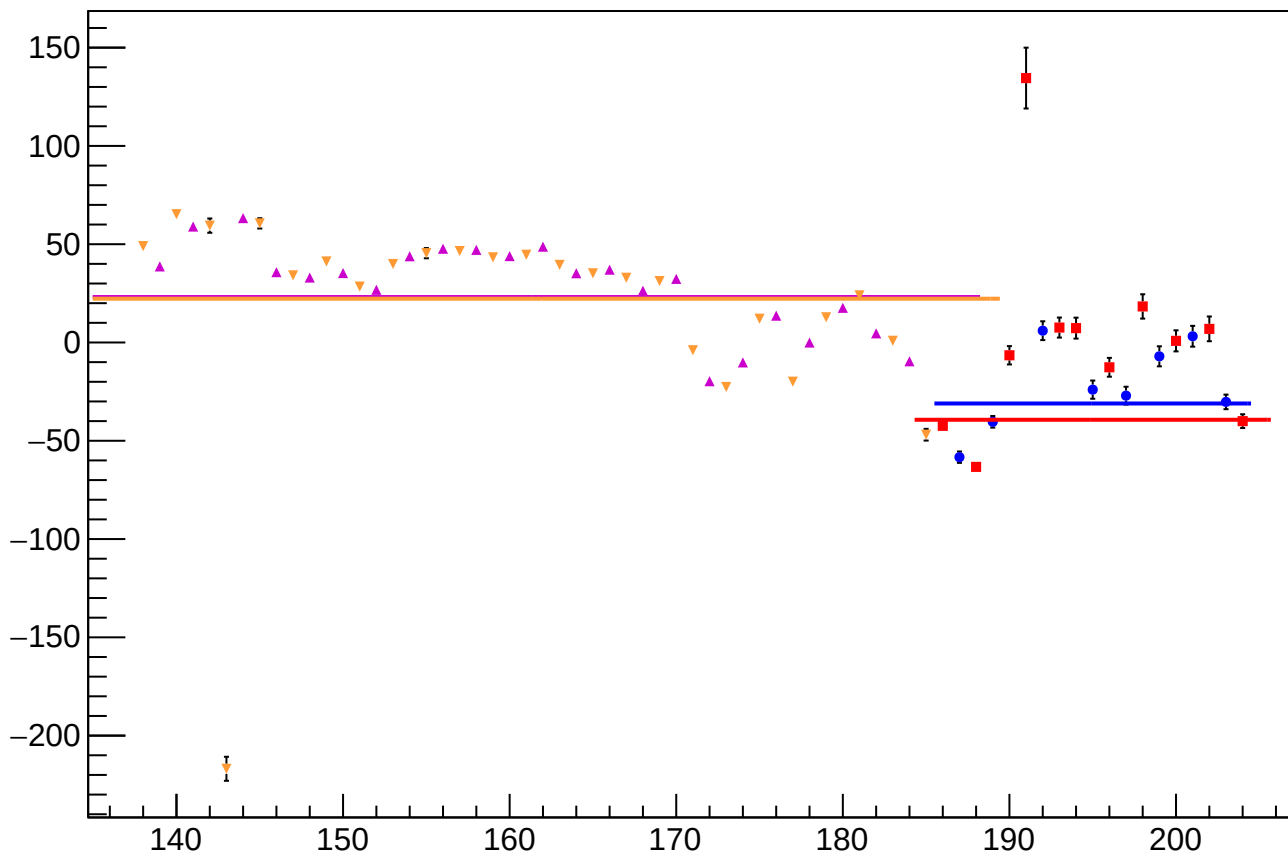
Out: 129.054 ± 1.353 $\chi^2/\text{NDF}: 1724.0/54$

All: 134.131 ± 0.985 $\chi^2/\text{NDF}: 3143.7/102$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



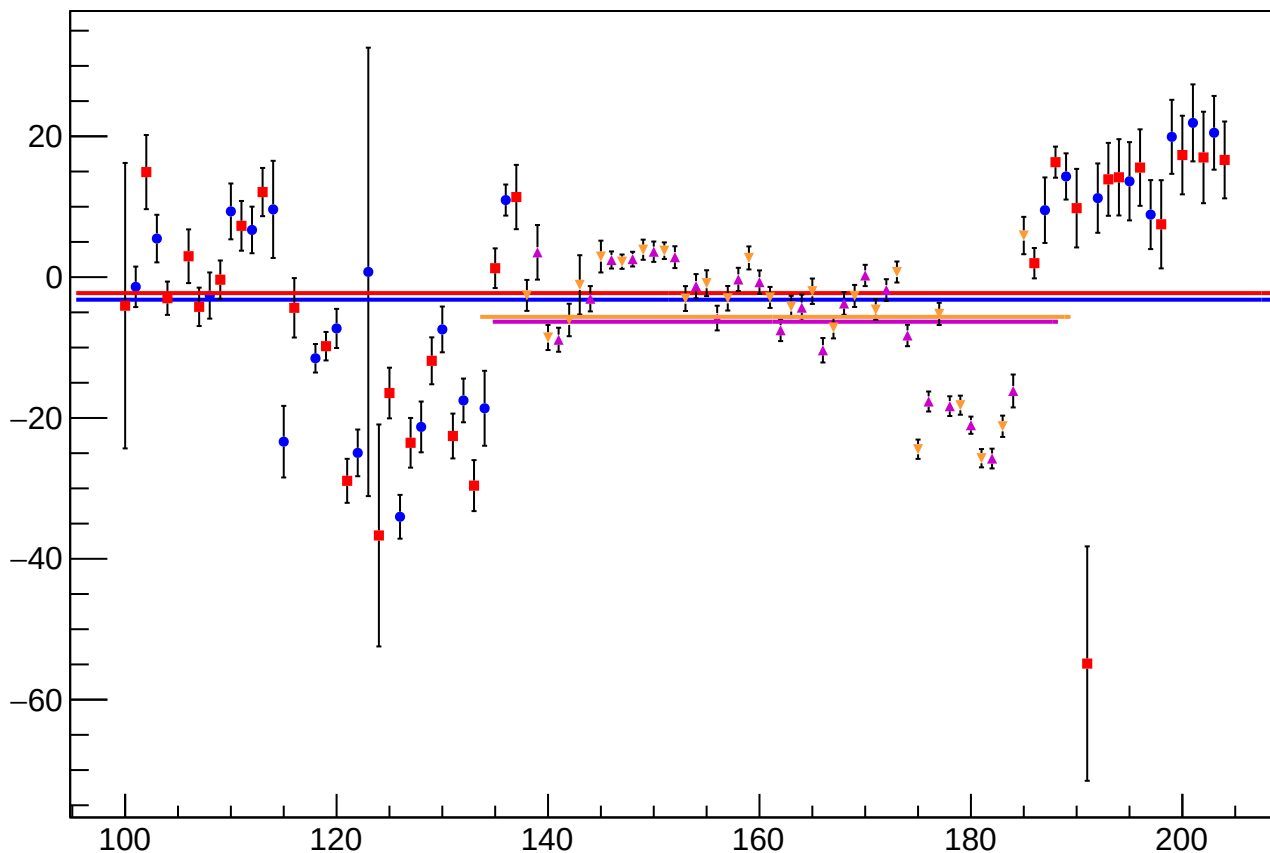
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.032 ± 1.386 $\chi^2/\text{NDF}: 226.2/7$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -39.314 ± 0.965 $\chi^2/\text{NDF}: 804.0/10$
 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: -36.611 ± 0.792 $\chi^2/\text{NDF}: 1054.2/18$
 In: 18.945 ± 0.386 $\chi^2/\text{NDF}: 4379.7/30$
 Out: 13.292 ± 0.369 $\chi^2/\text{NDF}: 9456.2/35$
 All: 15.990 ± 0.266 $\chi^2/\text{NDF}: 13948.1/66$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.205 ± 0.714 $\chi^2/\text{NDF}: 423.8/24$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -2.264 ± 0.646 $\chi^2/\text{NDF}: 453.2/29$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

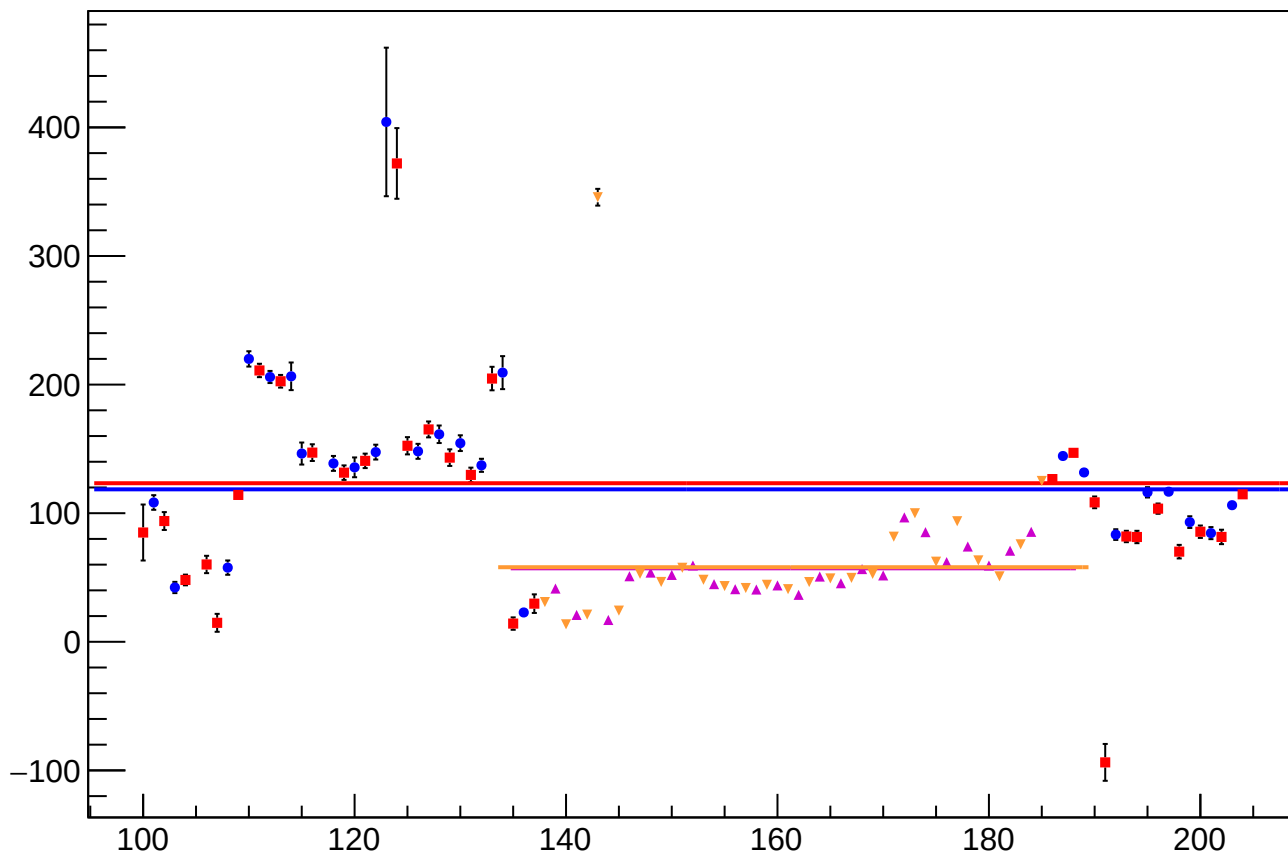
Right: -2.687 ± 0.479 $\chi^2/\text{NDF}: 878.0/54$

In: -5.810 ± 0.293 $\chi^2/\text{NDF}: 1222.7/47$

Out: -4.991 ± 0.283 $\chi^2/\text{NDF}: 1369.0/54$

All: -5.387 ± 0.204 $\chi^2/\text{NDF}: 2595.8/102$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 118.547 ± 0.916 χ^2/NDF : 2473.5/24

Left Out: 57.990 ± 0.398 χ^2/NDF : 4635.7/24

Right Out: 123.302 ± 0.694 χ^2/NDF : 3178.3/29

Left In: 57.139 ± 0.400 χ^2/NDF : 1803.4/22

Left: 57.566 ± 0.282 χ^2/NDF : 6441.4/47

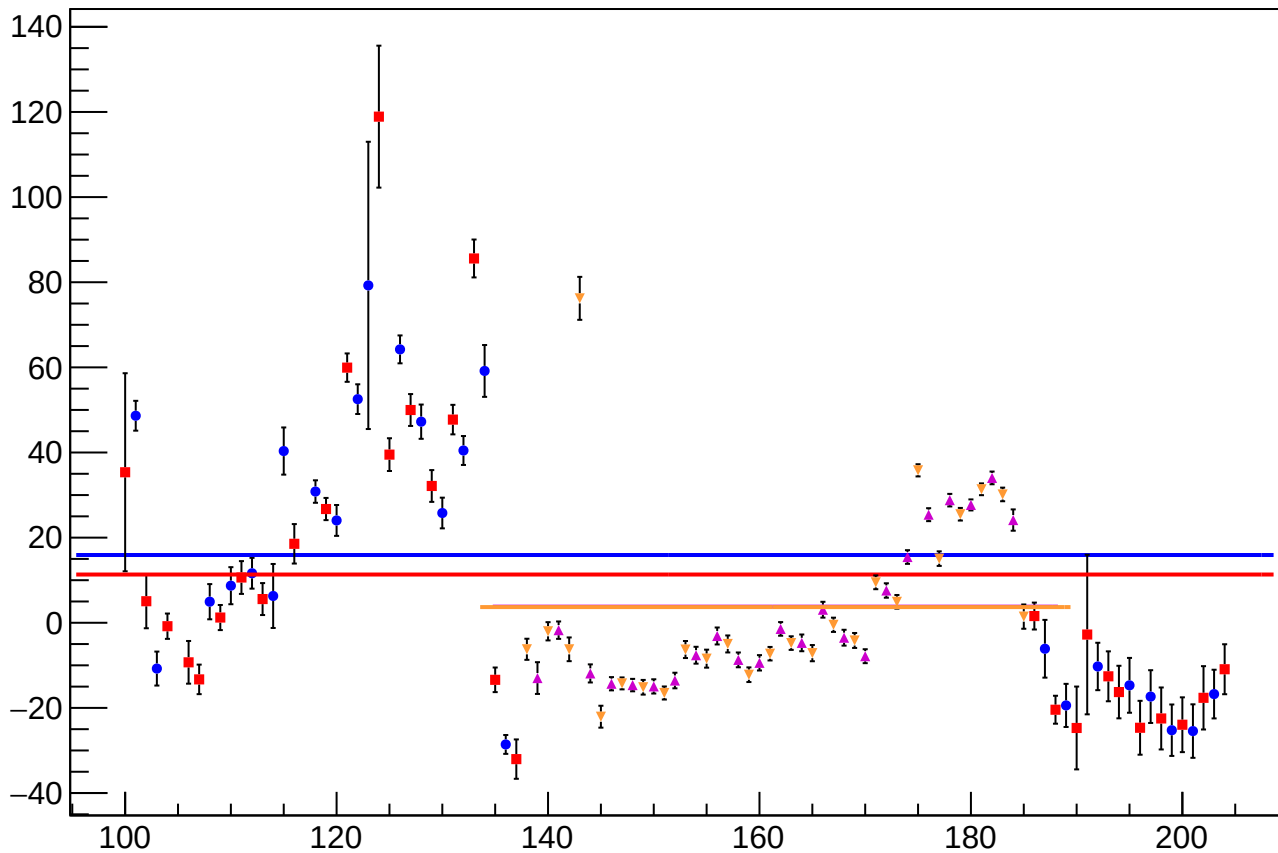
Right: 121.566 ± 0.553 χ^2/NDF : 5668.9/54

In: 66.964 ± 0.366 χ^2/NDF : 8056.1/47

Out: 74.151 ± 0.345 χ^2/NDF : 14479.1/54

All: 70.769 ± 0.251 χ^2/NDF : 22739.2/102

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.919 $\pm$ 0.828 χ^2 /NDF: 1361.7/24

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 11.333 $\pm$ 0.769 χ^2 /NDF: 1399.8/29

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

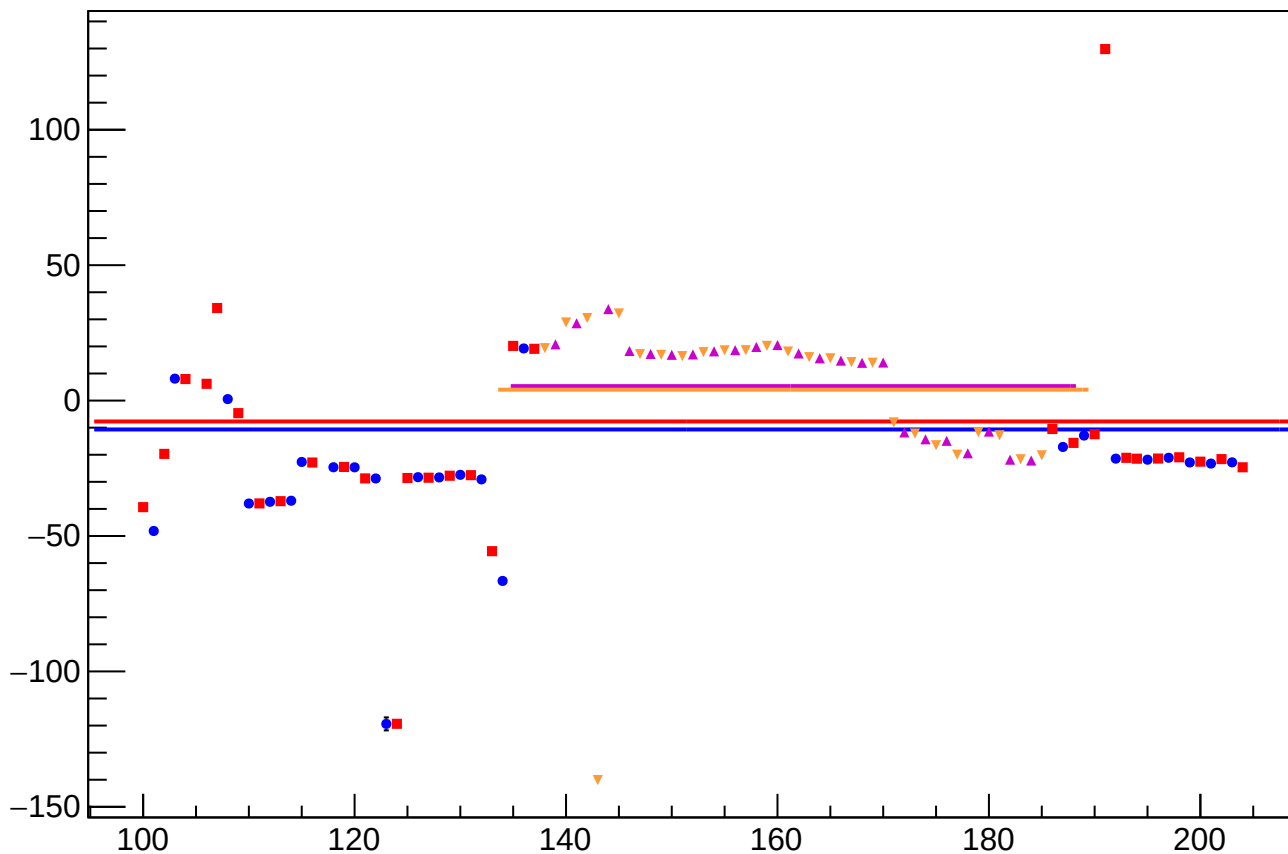
Right: 13.458 $\pm$ 0.563 χ^2 /NDF: 2778.0/54

In: 5.733 $\pm$ 0.331 χ^2 /NDF:3741.0/47

Out: 5.038 $\pm$ 0.324 χ^2 /NDF:4022.8/54

All: 5.377 $\pm$ 0.232 χ^2 /NDF: 7766.1/102

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.665 ± 0.039 χ^2/NDF : 295929.1/24

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -7.710 ± 0.037 χ^2/NDF : 385724.8/29

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

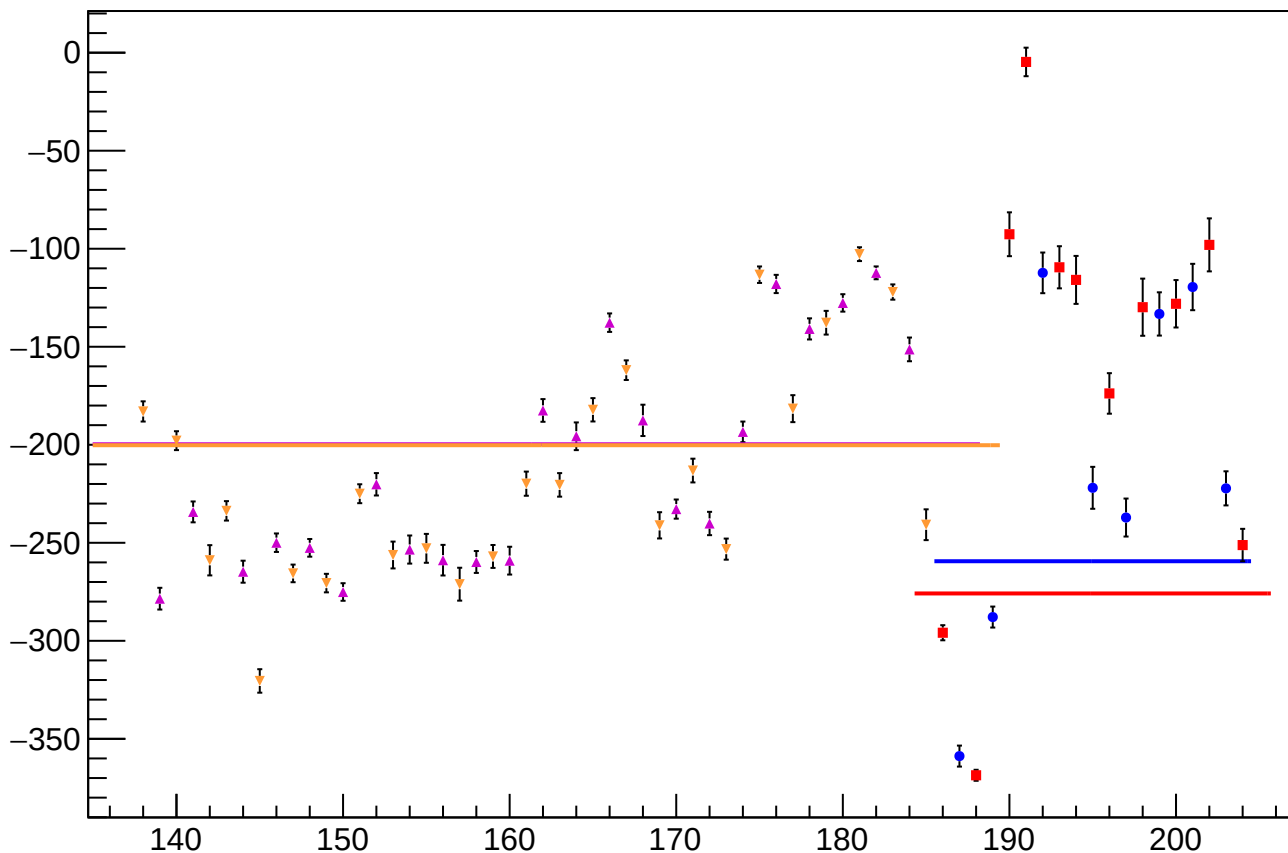
Right: -9.118 ± 0.027 χ^2/NDF : 684663.2/54

In: 2.921 ± 0.015 χ^2/NDF : 1516931.5/47

Out: 2.121 ± 0.015 χ^2/NDF : 1852346.3/54

All: 2.517 ± 0.011 χ^2/NDF : 3370690.2/102

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -259.405 $\pm$ 2.805 χ^2/NDF : 880.3/7

Left Out: -200.228 $\pm$ 1.078 χ^2/NDF :3225.0/24

Right Out: -275.842 $\pm$ 1.900 χ^2/NDF : 3710.2/10

Left In: -199.739 $\pm$ 1.097 χ^2/NDF :2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2/NDF : 6193.2/47

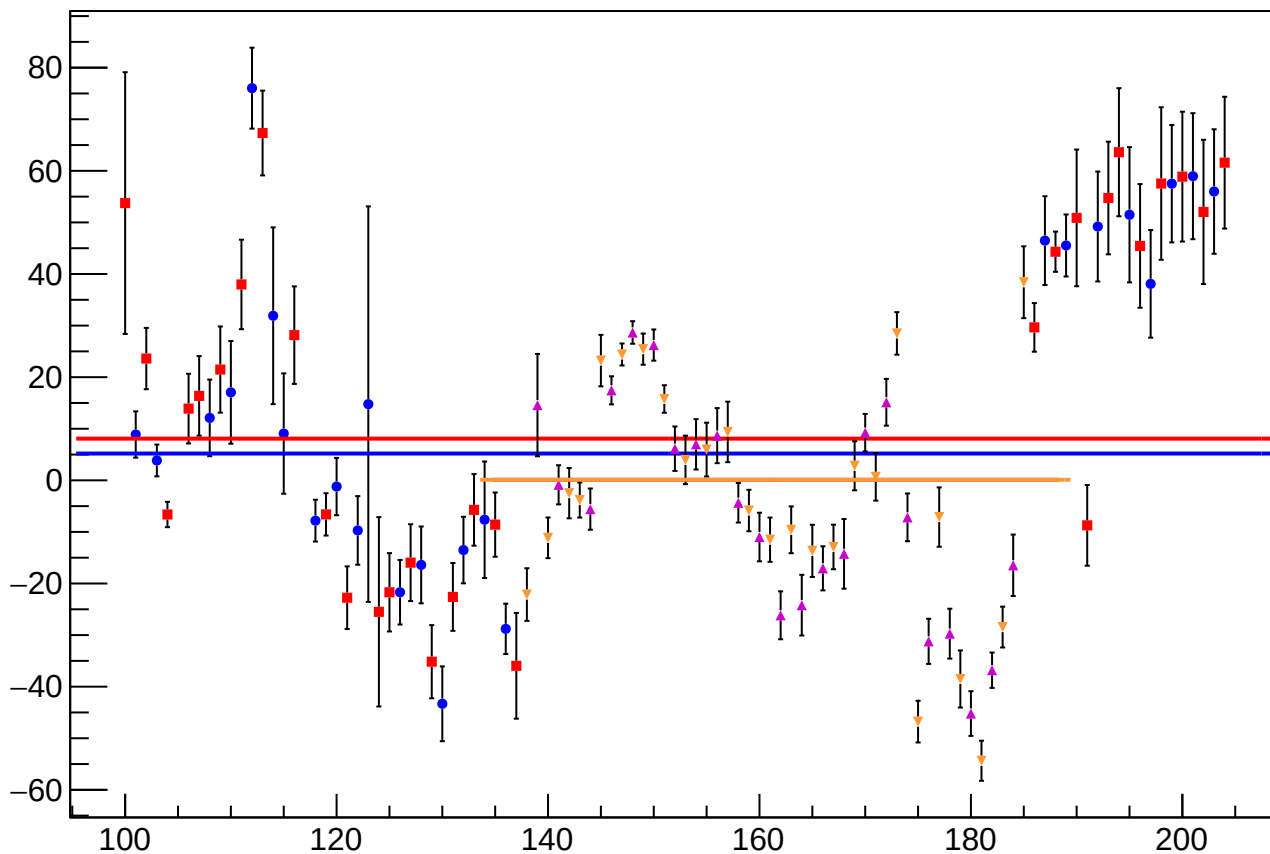
Right: -270.672 $\pm$ 1.573 χ^2/NDF : 4614.1/18

In: -207.658 $\pm$ 1.022 χ^2/NDF :4240.7/30

Out: -218.631 $\pm$ 0.938 χ^2/NDF :8133.1/35

All: -213.616 $\pm$ 0.691 χ^2/NDF : 12436.4/66

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.194 $\pm$ 1.349 χ^2 /NDF: 399.4/24

Left Out: 0.109 $\pm$ 0.807 χ^2 /NDF:831.2/24

Right Out: 8.089 $\pm$ 1.205 χ^2 /NDF: 500.2/29

Left In: 0.097 $\pm$ 0.838 χ^2 /NDF:715.5/22

Left: 0.103 $\pm$ 0.581 χ^2 /NDF: 1546.7/47

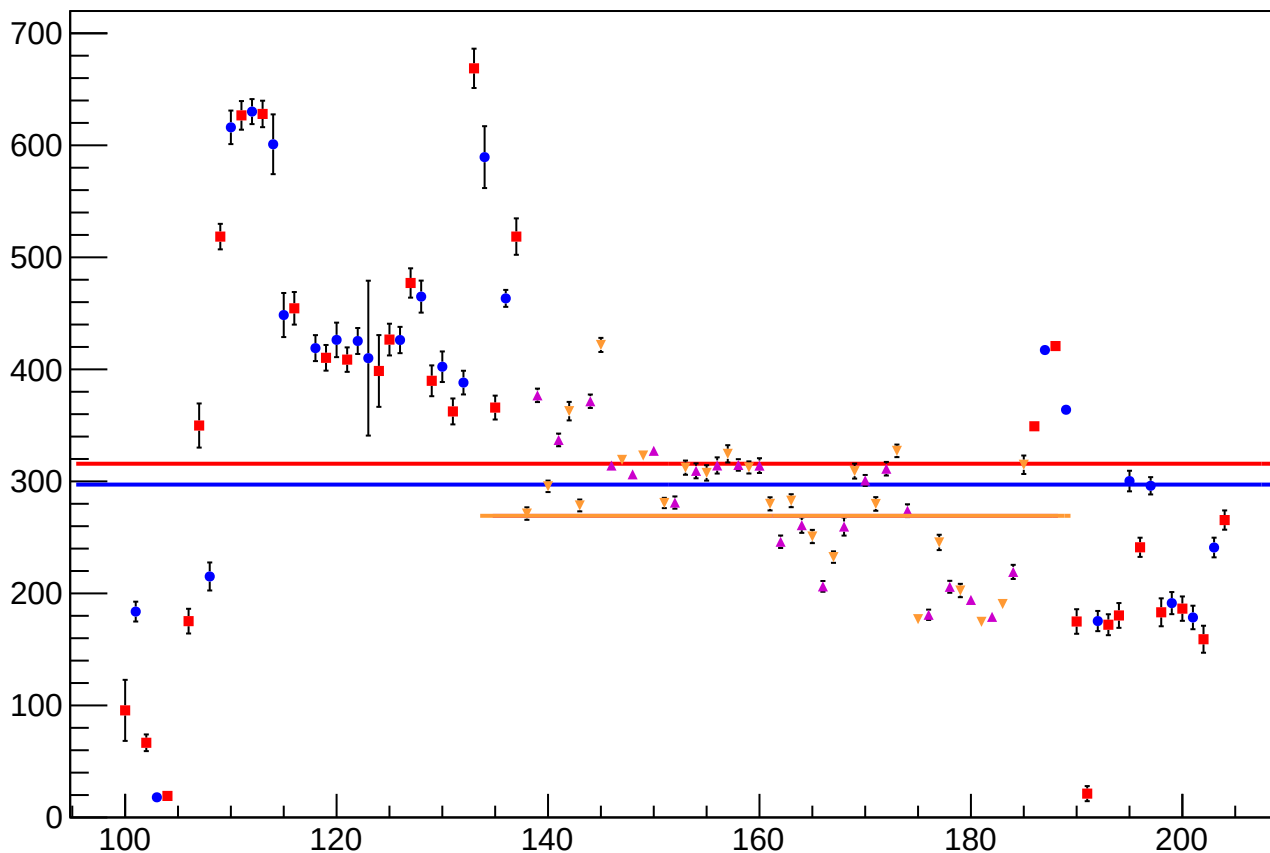
Right: 6.804 $\pm$ 0.899 χ^2 /NDF: 902.2/54

In: 1.516 $\pm$ 0.712 χ^2 /NDF:1125.1/47

Out: 2.580 $\pm$ 0.671 χ^2 /NDF:1361.8/54

All: 2.080 $\pm$ 0.488 χ^2 /NDF: 2488.1/102

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 297.143+/-1.724 χ^2/NDF : 9218.7/24

Left Out: 269.278+/-1.078 χ^2/NDF :3146.7/24

Right Out: 315.760+/-1.329 χ^2/NDF : 13965.2/29

Left In: 269.191+/-1.091 χ^2/NDF :3170.2/22

Left: 269.235+/-0.767 χ^2/NDF : 6316.9/47

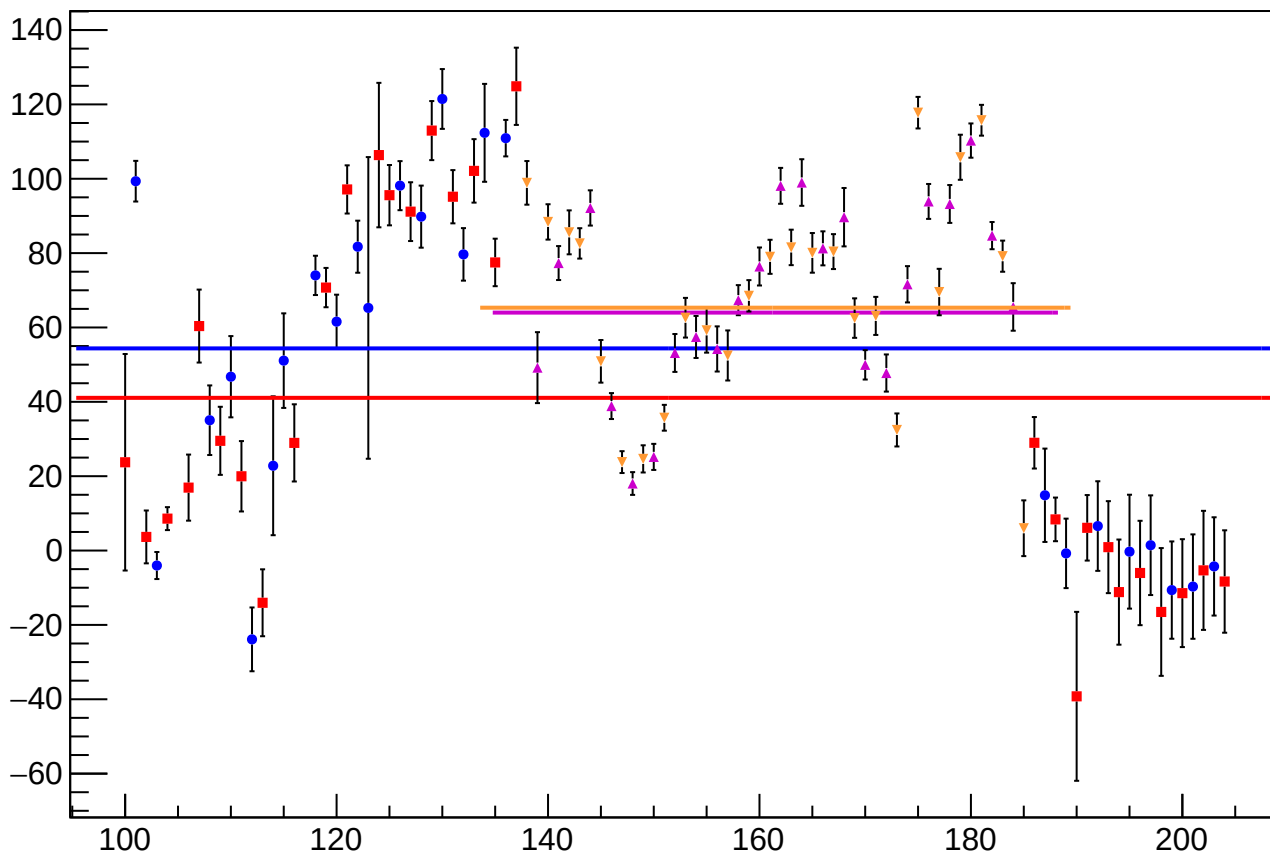
Right: 308.818+/-1.053 χ^2/NDF : 23257.0/54

In: 277.181+/-0.922 χ^2/NDF :12576.6/47

Out: 287.712+/-0.837 χ^2/NDF :17849.8/54

All: 282.952+/-0.620 χ^2/NDF : 30498.0/102

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 54.373 ± 1.584 $\chi^2/\text{NDF}: 897.1/24$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 41.073 ± 1.461 $\chi^2/\text{NDF}: 829.4/29$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

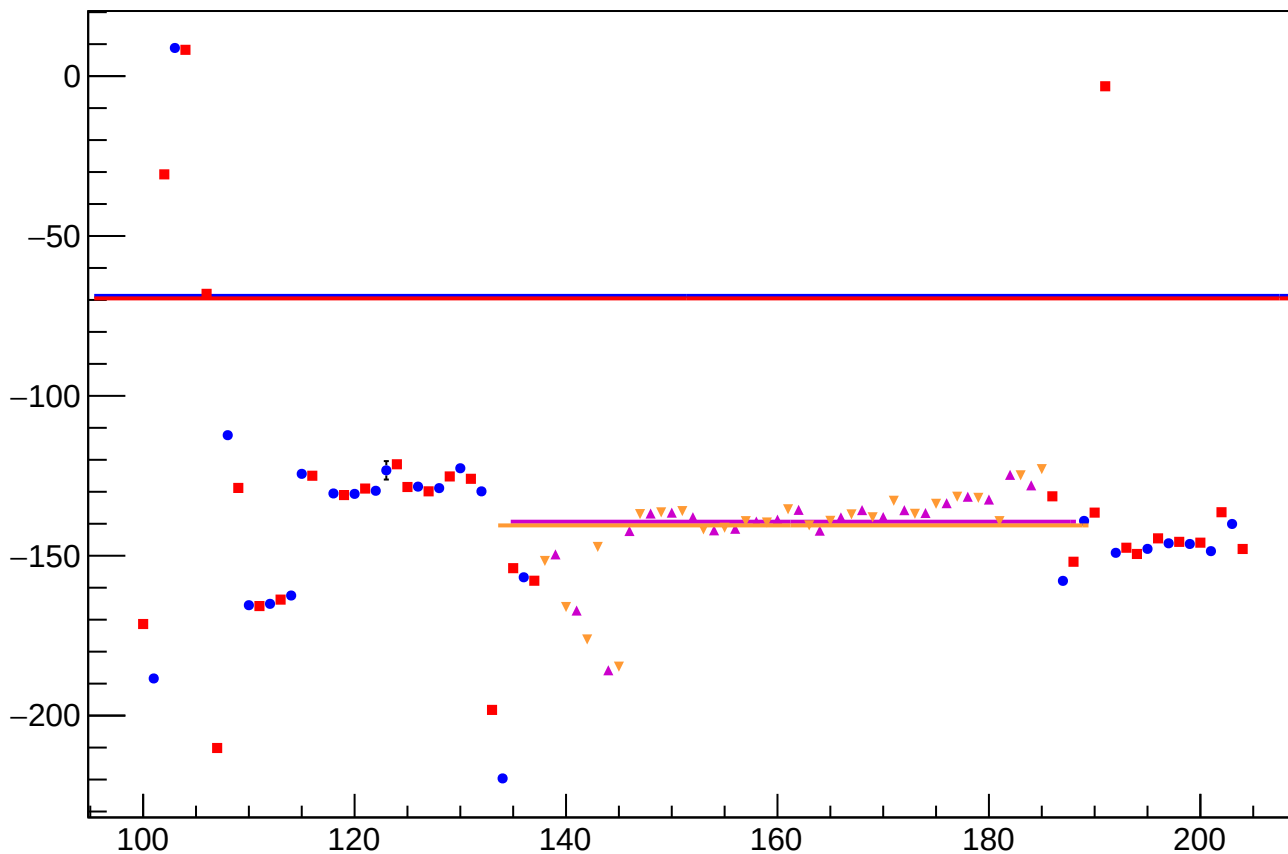
Right: 47.185 ± 1.074 $\chi^2/\text{NDF}: 1764.6/54$

In: 61.402 ± 0.823 $\chi^2/\text{NDF}: 1723.5/47$

Out: 58.279 ± 0.787 $\chi^2/\text{NDF}: 2032.1/54$

All: 59.772 ± 0.569 $\chi^2/\text{NDF}: 3763.1/102$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -68.734 ± 0.064 $\chi^2/\text{NDF}: 1516757.1/24$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -69.519 ± 0.062 $\chi^2/\text{NDF}: 1376566.1/29$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

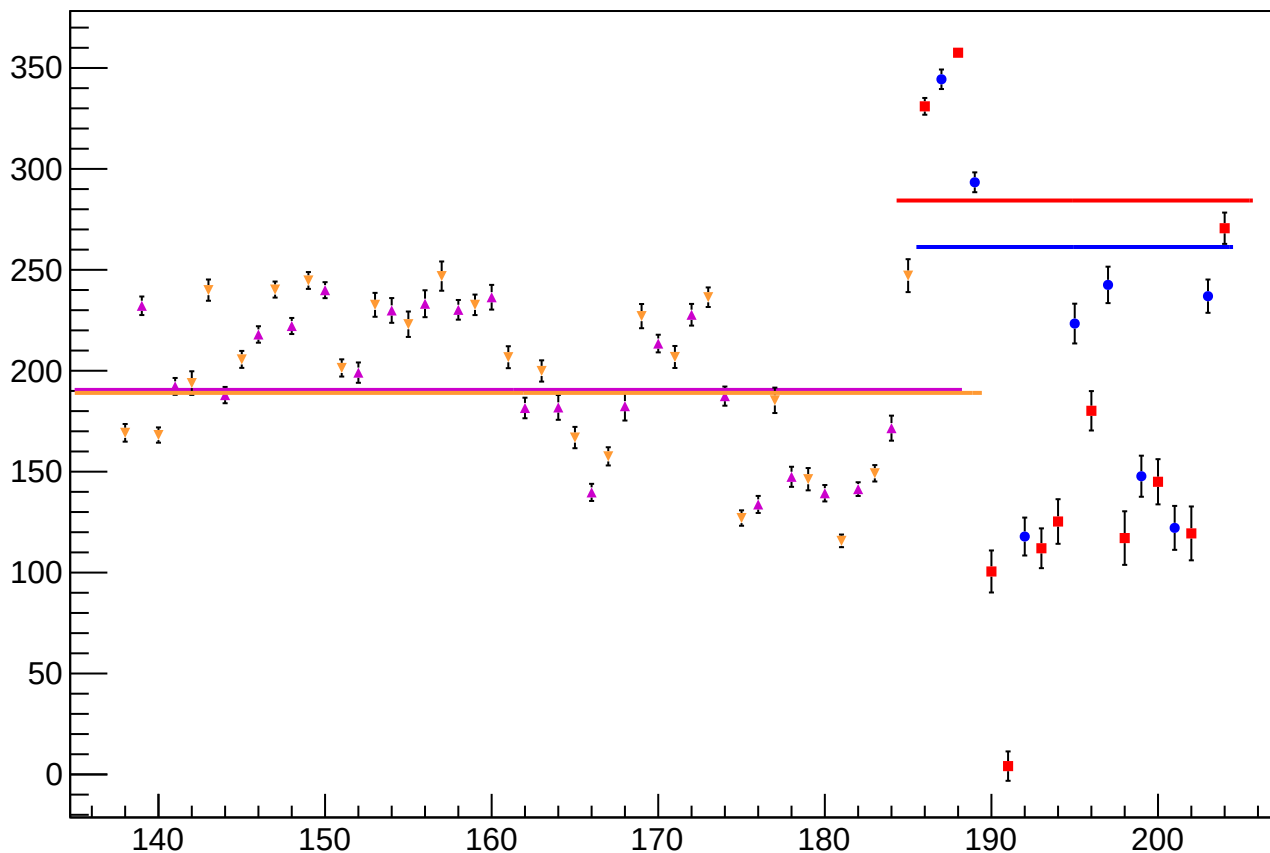
Right: -69.142 ± 0.045 $\chi^2/\text{NDF}: 2893400.6/54$

In: -116.133 ± 0.037 $\chi^2/\text{NDF}: 2388953.8/47$

Out: -116.267 ± 0.036 $\chi^2/\text{NDF}: 2321500.0/54$

All: -116.201 ± 0.026 $\chi^2/\text{NDF}: 4710460.6/100$

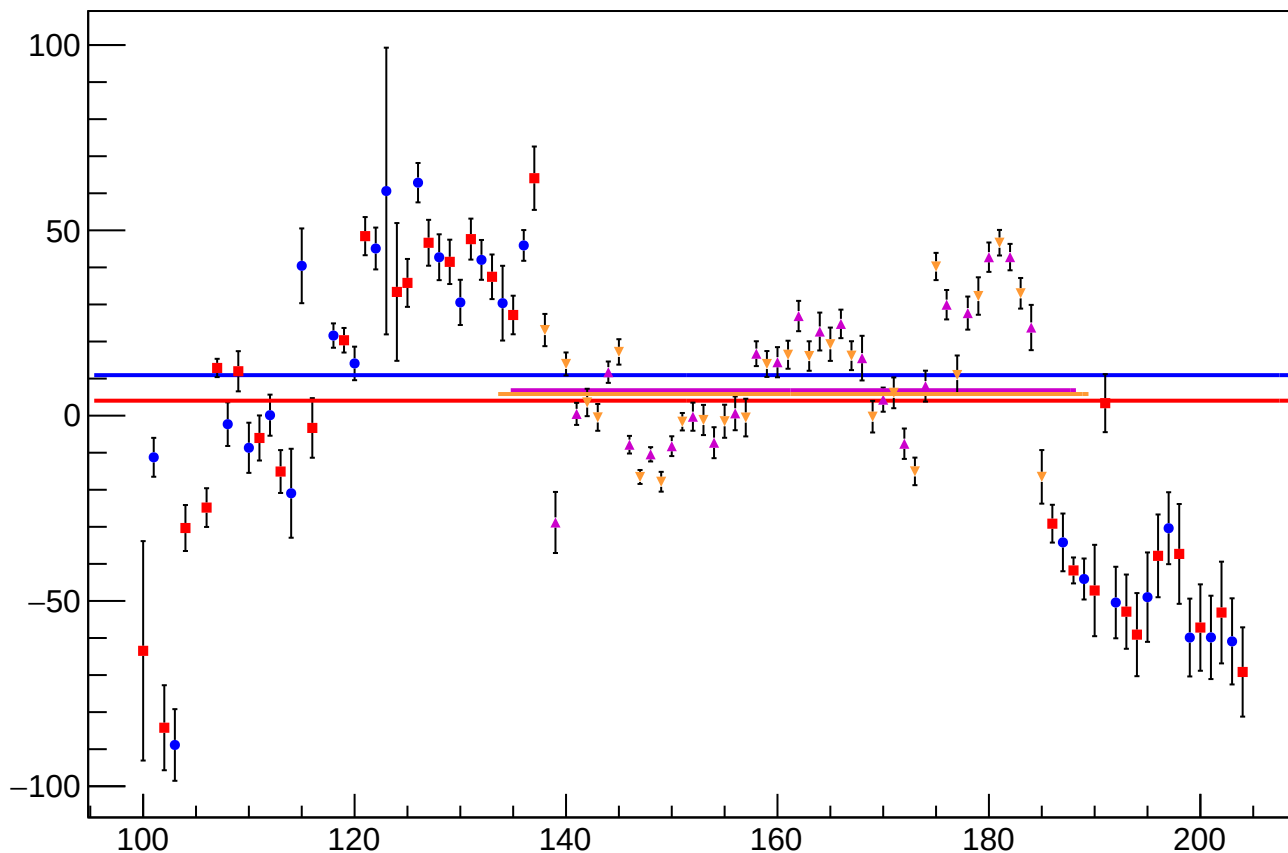
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 261.306 ± 2.575 $\chi^2/\text{NDF}: 886.3/7$
 Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$
 Right Out: 284.339 ± 1.795 $\chi^2/\text{NDF}: 3869.9/10$
 Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$
 Right: 276.805 ± 1.473 $\chi^2/\text{NDF}: 4810.0/18$
 In: 199.384 ± 0.912 $\chi^2/\text{NDF}: 2960.1/30$
 Out: 210.079 ± 0.844 $\chi^2/\text{NDF}: 8046.5/35$
 All: 205.146 ± 0.619 $\chi^2/\text{NDF}: 11080.6/66$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.928 ± 1.277 $\chi^2/\text{NDF}: 786.3/24$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 4.037 ± 1.081 $\chi^2/\text{NDF}: 928.9/29$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

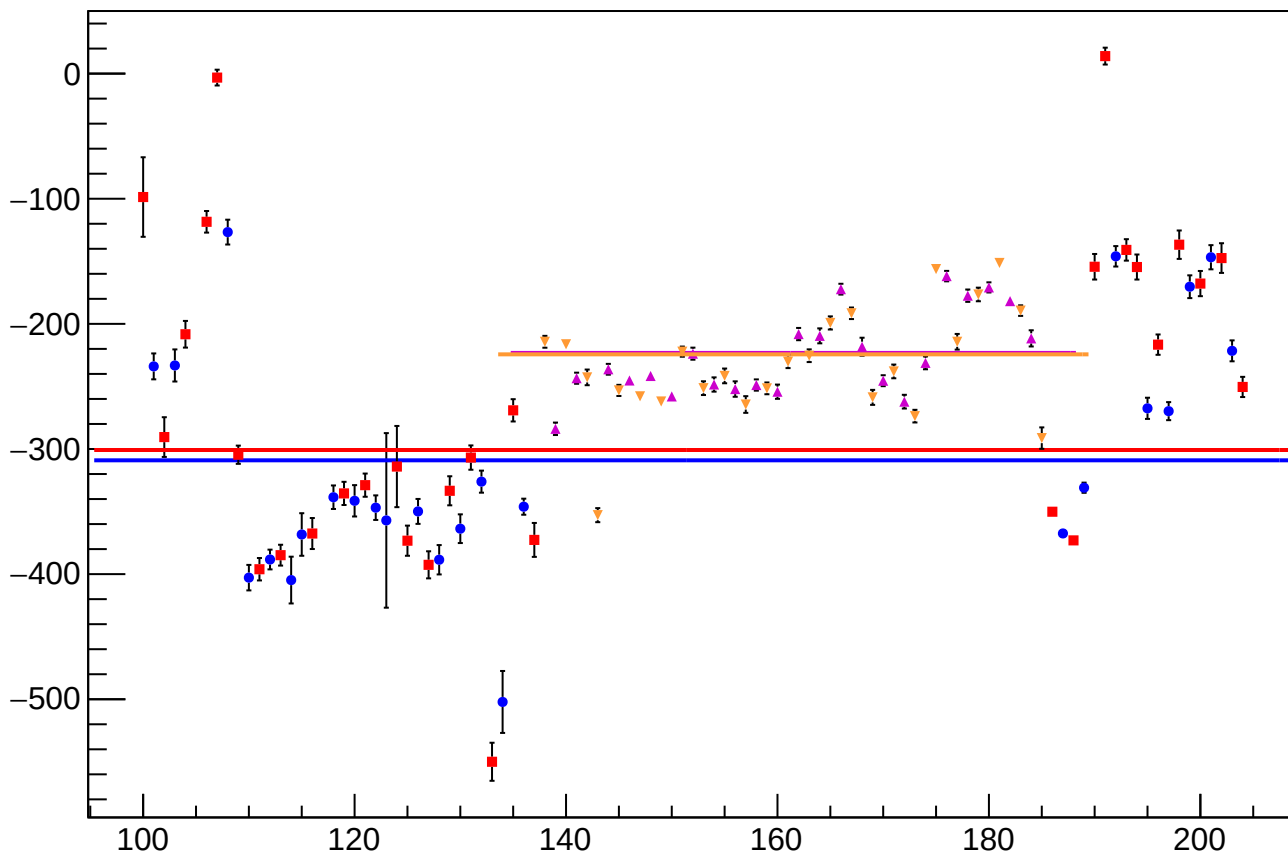
Right: 6.912 ± 0.825 $\chi^2/\text{NDF}: 1732.2/54$

In: 7.876 ± 0.638 $\chi^2/\text{NDF}: 1316.6/47$

Out: 5.290 ± 0.595 $\chi^2/\text{NDF}: 1583.1/54$

All: 6.493 ± 0.435 $\chi^2/\text{NDF}: 2908.5/102$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -309.049+/-1.670 χ^2/NDF : 2185.4/24

Left Out: -224.364+/-0.956 χ^2/NDF : 2103.2/24

Right Out: -300.806+/-1.257 χ^2/NDF : 8631.0/29

Left In: -223.223+/-0.969 χ^2/NDF : 1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

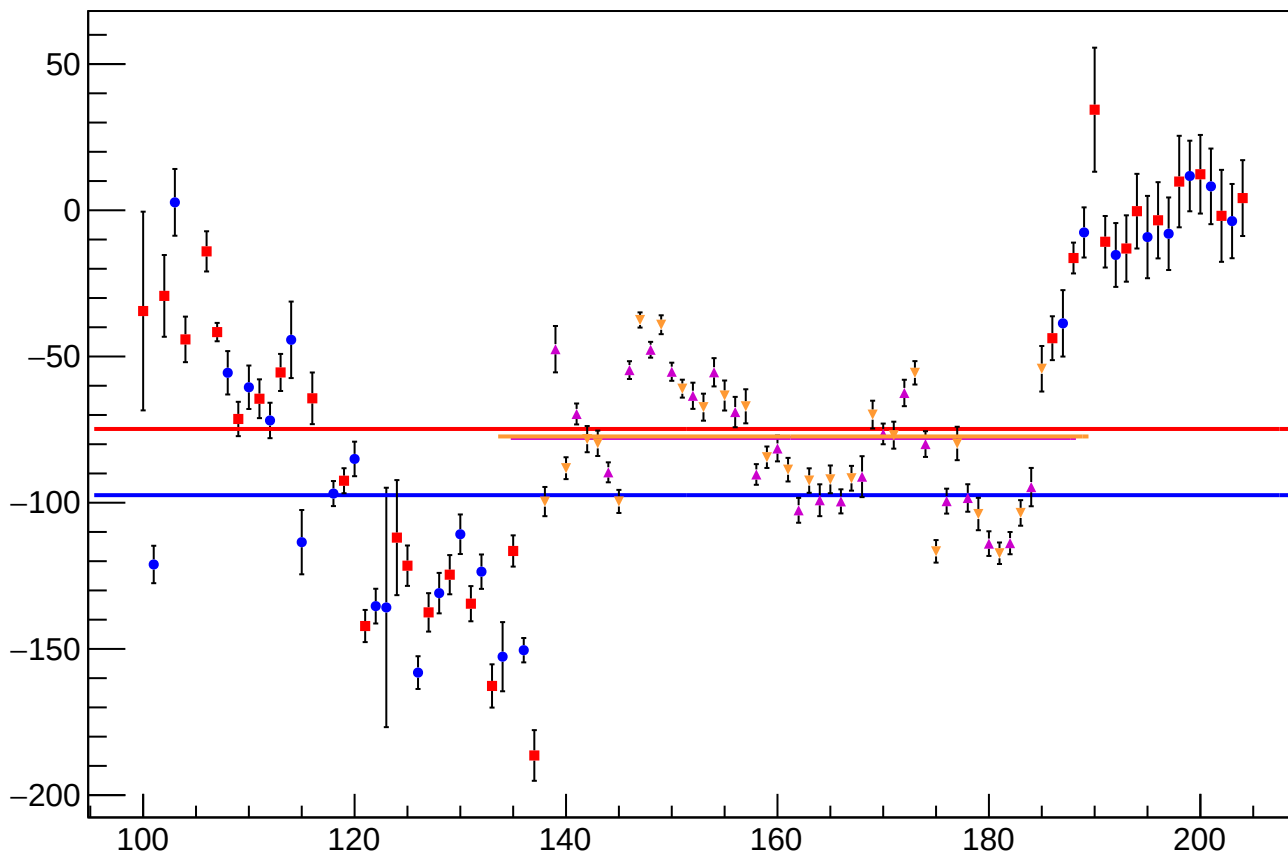
Right: -303.786+/-1.004 χ^2/NDF : 10832.0/54

In: -244.841+/-0.838 χ^2/NDF : 5430.0/47

Out: -252.386+/-0.761 χ^2/NDF : 13077.9/54

All: -248.978+/-0.563 χ^2/NDF : 18552.3/102

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.419 ± 1.490 $\chi^2/\text{NDF}: 1065.5/24$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -74.781 ± 1.298 $\chi^2/\text{NDF}: 1503.0/29$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

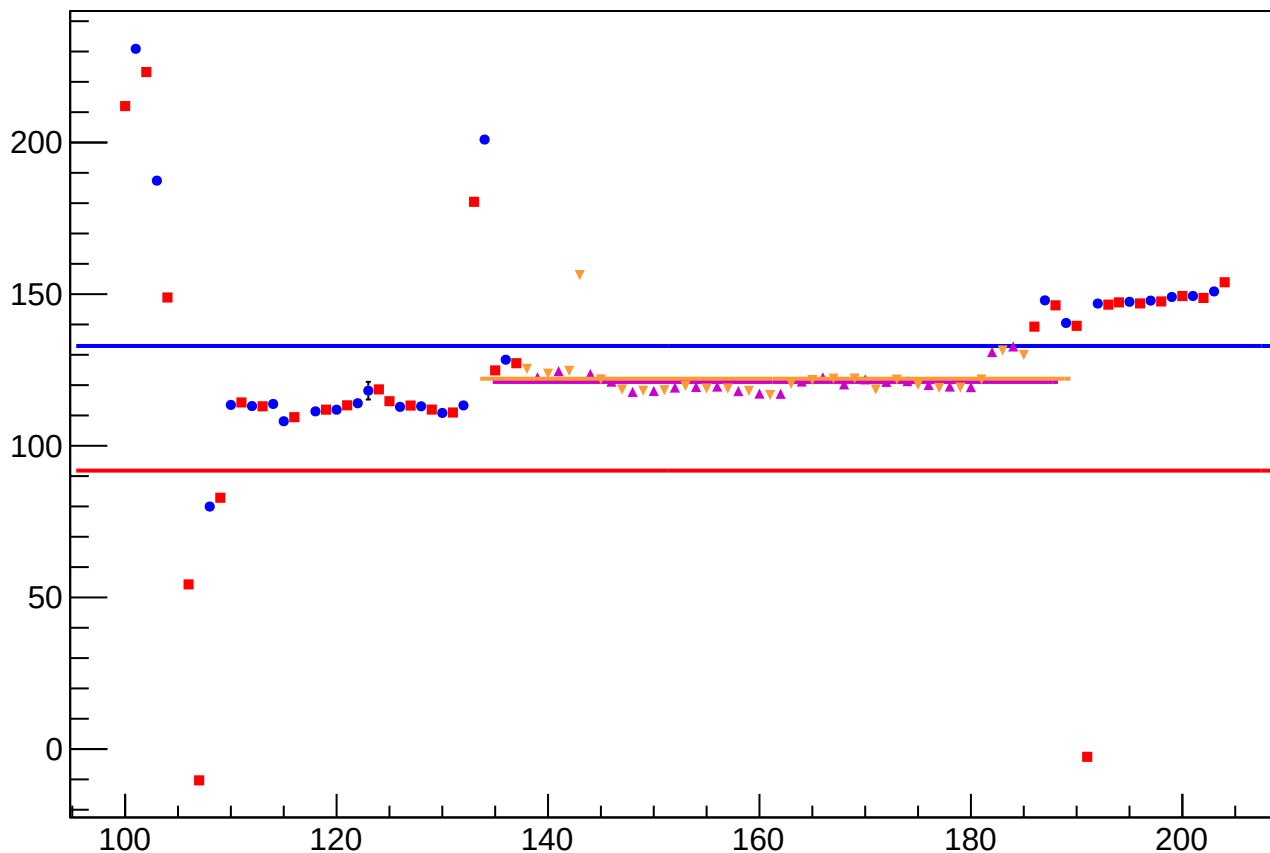
Right: -84.547 ± 0.979 $\chi^2/\text{NDF}: 2699.8/54$

In: -82.636 ± 0.737 $\chi^2/\text{NDF}: 1818.7/47$

Out: -76.604 ± 0.697 $\chi^2/\text{NDF}: 2352.0/54$

All: -79.451 ± 0.507 $\chi^2/\text{NDF}: 4206.0/102$

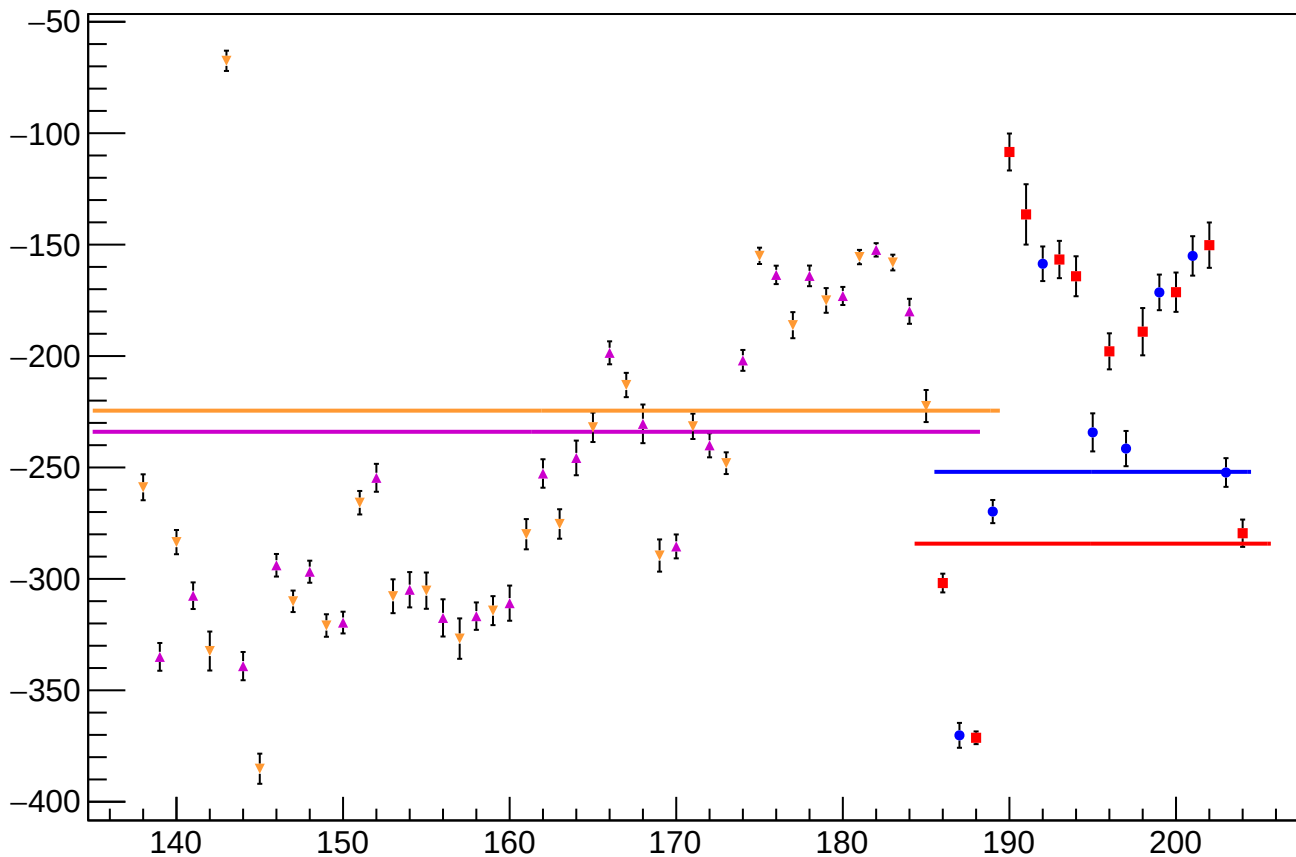
reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 132.909 $\pm$ 0.076 χ^2 /NDF: 202086.0/24
 Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24
 Right Out: 91.819 $\pm$ 0.063 χ^2 /NDF: 1112102.6/29
 Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47
 Right: 108.492 $\pm$ 0.049 χ^2 /NDF: 1486724.8/54
 In: 123.586 $\pm$ 0.035 χ^2 /NDF:229022.5/47
 Out: 113.599 $\pm$ 0.033 χ^2 /NDF:1308778.2/54
 All: 118.328 $\pm$ 0.024 χ^2 /NDF: 1580098.2/102

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -251.965 $\pm$ 2.440 χ^2/NDF : 832.5/7

Left Out: -224.501 $\pm$ 1.079 χ^2/NDF : 4870.6/24

Right Out: -284.189 $\pm$ 1.827 χ^2/NDF : 2461.7/10

Left In: -233.988 $\pm$ 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 $\pm$ 0.773 χ^2/NDF : 8446.6/47

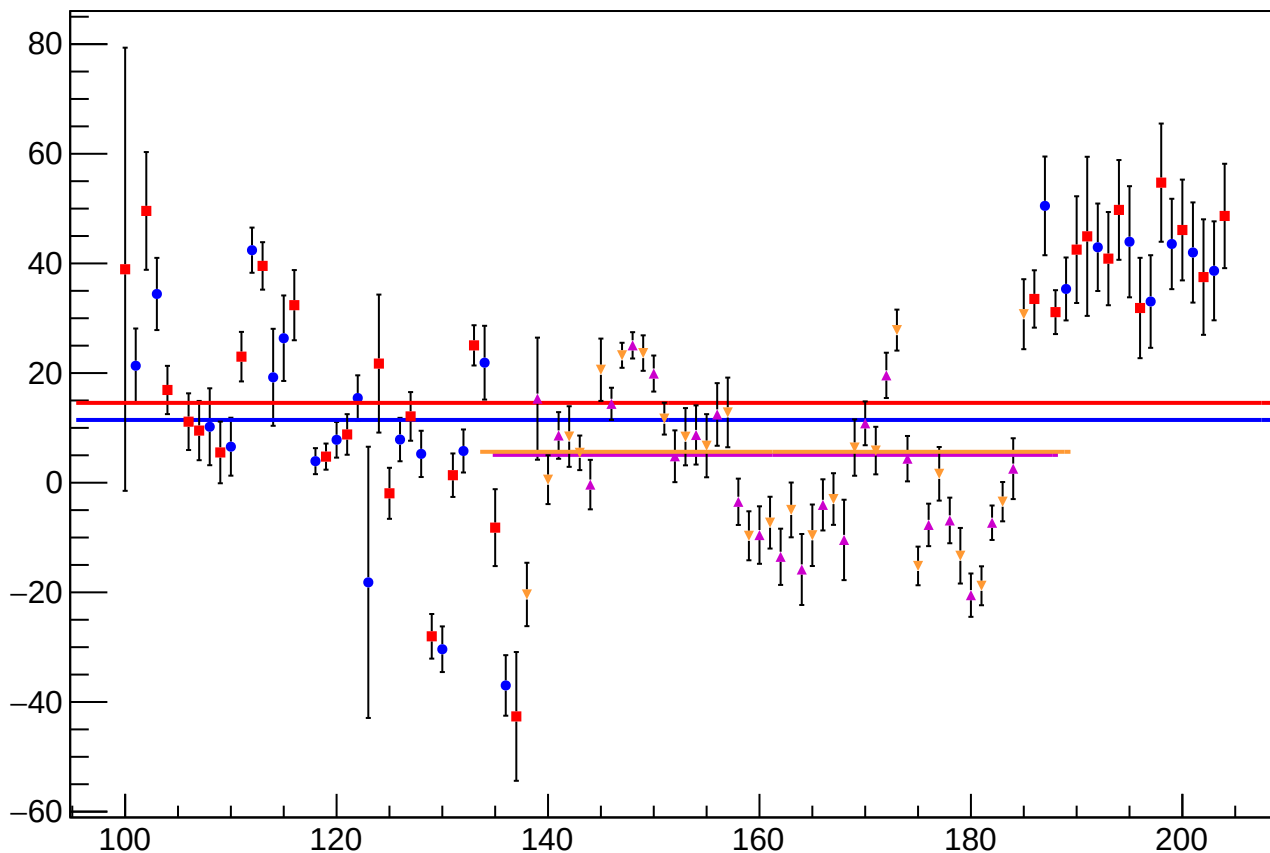
Right: -272.613 $\pm$ 1.463 χ^2/NDF : 3405.9/18

In: -237.063 $\pm$ 1.009 χ^2/NDF : 4415.9/30

Out: -239.935 $\pm$ 0.929 χ^2/NDF : 8123.5/35

All: -238.617 $\pm$ 0.684 χ^2/NDF : 12543.7/66

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.448 $\pm$ 1.031 χ^2 /NDF: 379.0/24

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 14.562 $\pm$ 0.971 χ^2 /NDF: 369.4/29

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

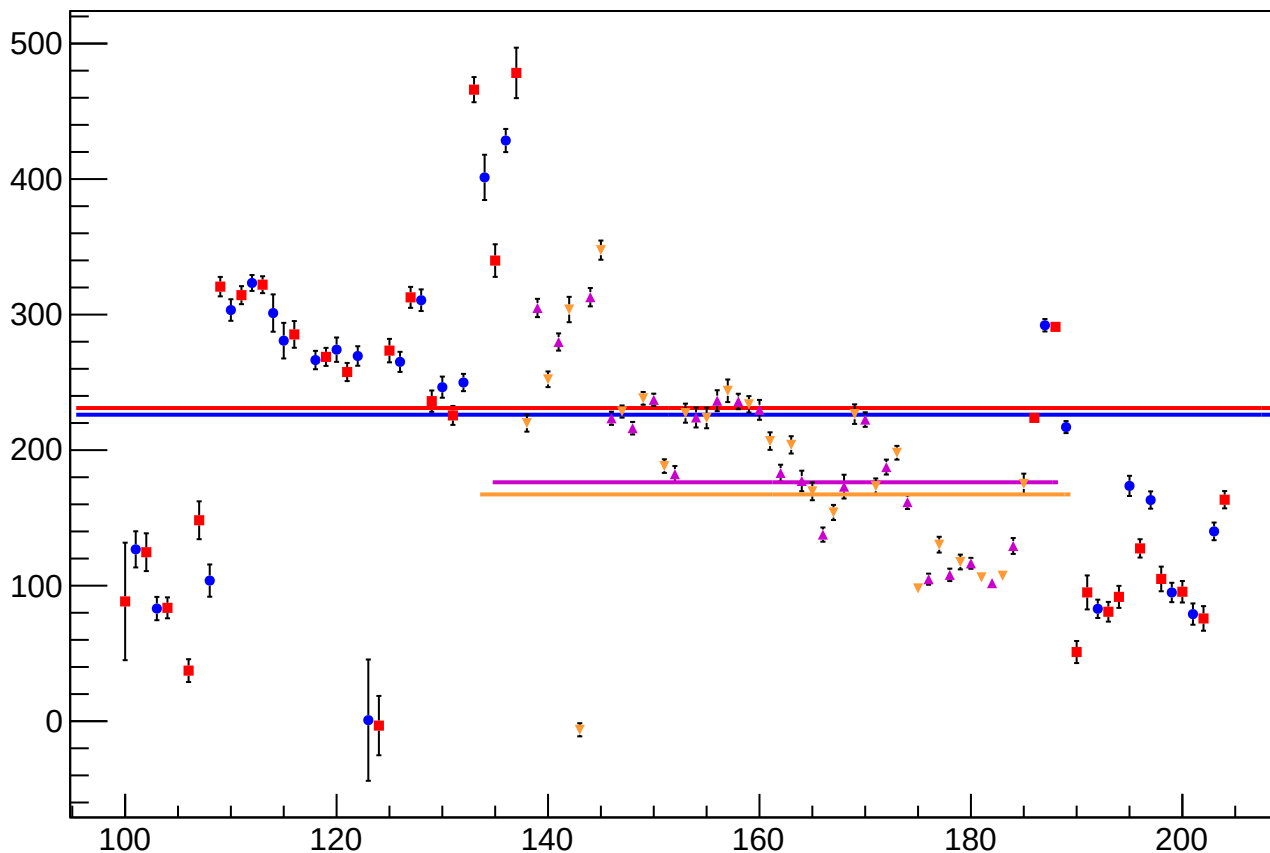
Right: 13.099 $\pm$ 0.707 χ^2 /NDF: 753.2/54

In: 7.722 $\pm$ 0.665 χ^2 /NDF:641.0/47

Out: 9.396 $\pm$ 0.630 χ^2 /NDF:731.9/54

All: 8.604 $\pm$ 0.457 χ^2 /NDF: 1376.3/102

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 226.134 $\pm$ 1.490 χ^2 /NDF: 3479.3/24

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 231.065 $\pm$ 1.218 χ^2 /NDF: 5884.0/29

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

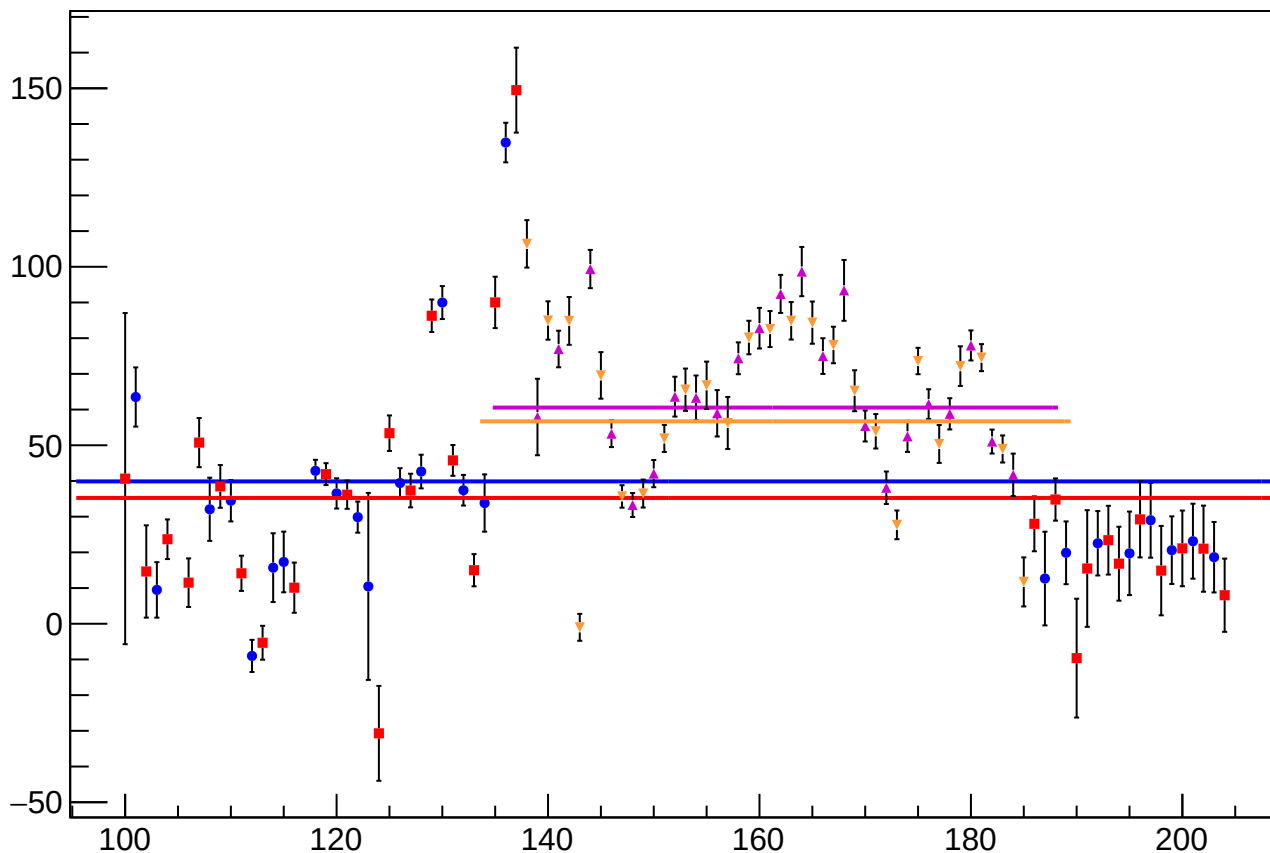
Right: 229.091 $\pm$ 0.943 χ^2 /NDF: 9369.8/54

In: 193.975 $\pm$ 0.888 χ^2 /NDF:7370.8/47

Out: 195.459 $\pm$ 0.809 χ^2 /NDF:11868.6/54

All: 194.786 $\pm$ 0.598 χ^2 /NDF: 19241.0/102

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.875 $\pm$ 1.203 χ^2 /NDF: 605.1/24

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF:690.4/24

Right Out: 35.243 $\pm$ 1.142 χ^2 /NDF: 500.8/29

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF:335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

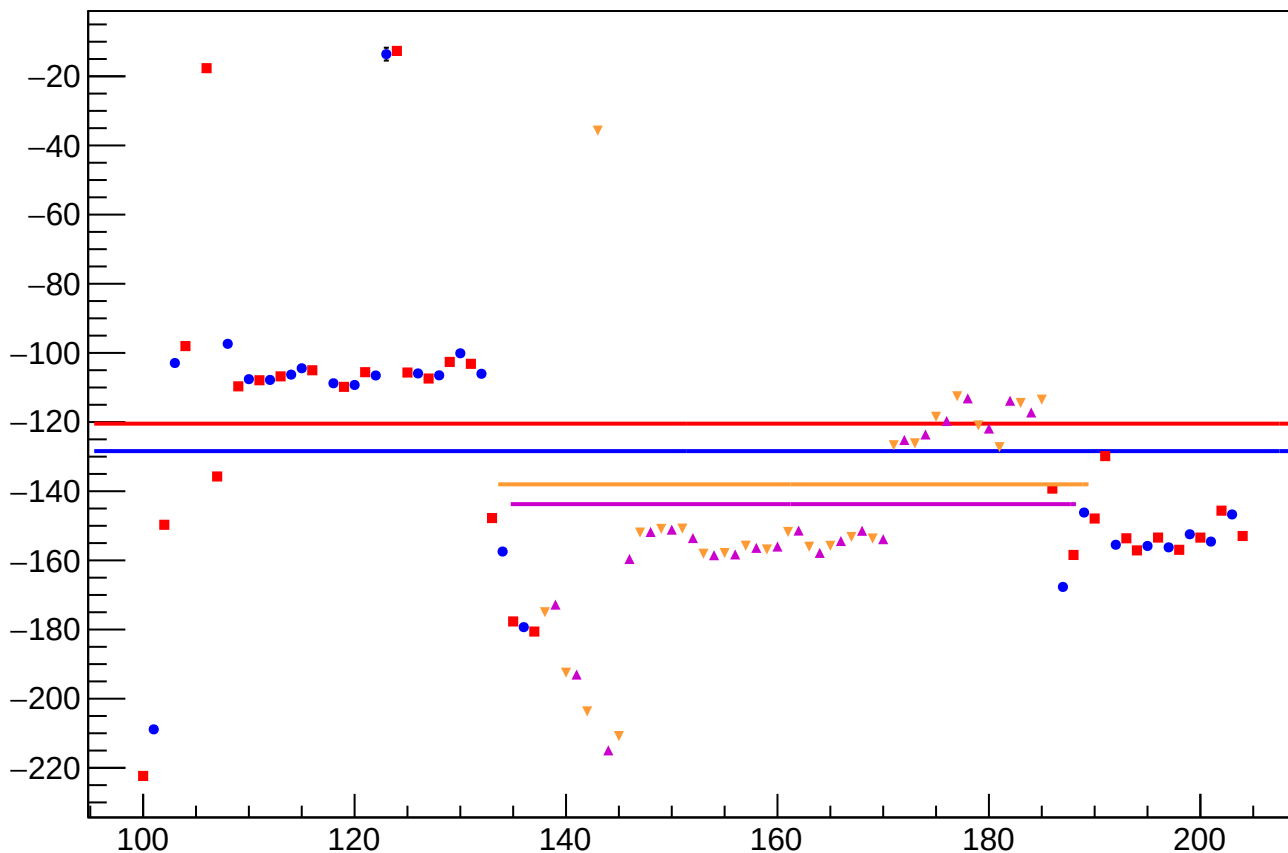
Right: 37.439 $\pm$ 0.828 χ^2 /NDF: 1113.7/54

In: 52.200 $\pm$ 0.764 χ^2 /NDF:1117.0/47

Out: 47.900 $\pm$ 0.731 χ^2 /NDF:1399.5/54

All: 49.954 $\pm$ 0.528 χ^2 /NDF: 2532.9/102

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.397 ± 0.066 $\chi^2/\text{NDF}: 205000.4/24$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -120.460 ± 0.060 $\chi^2/\text{NDF}: 455053.7/29$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

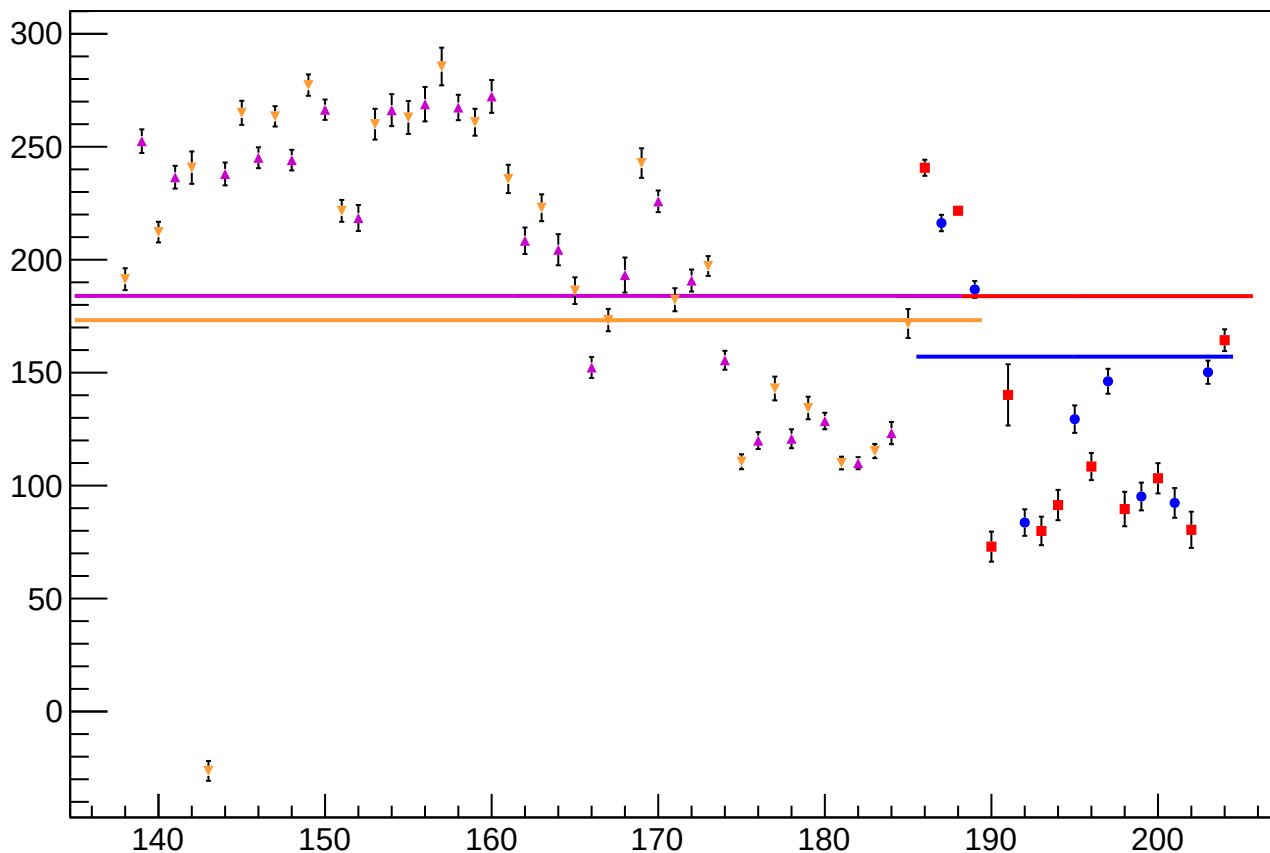
Right: -124.082 ± 0.044 $\chi^2/\text{NDF}: 667976.1/54$

In: -138.680 ± 0.038 $\chi^2/\text{NDF}: 499897.4/47$

Out: -131.700 ± 0.036 $\chi^2/\text{NDF}: 1075174.5/54$

All: -135.036 ± 0.026 $\chi^2/\text{NDF}: 1592919.4/100$

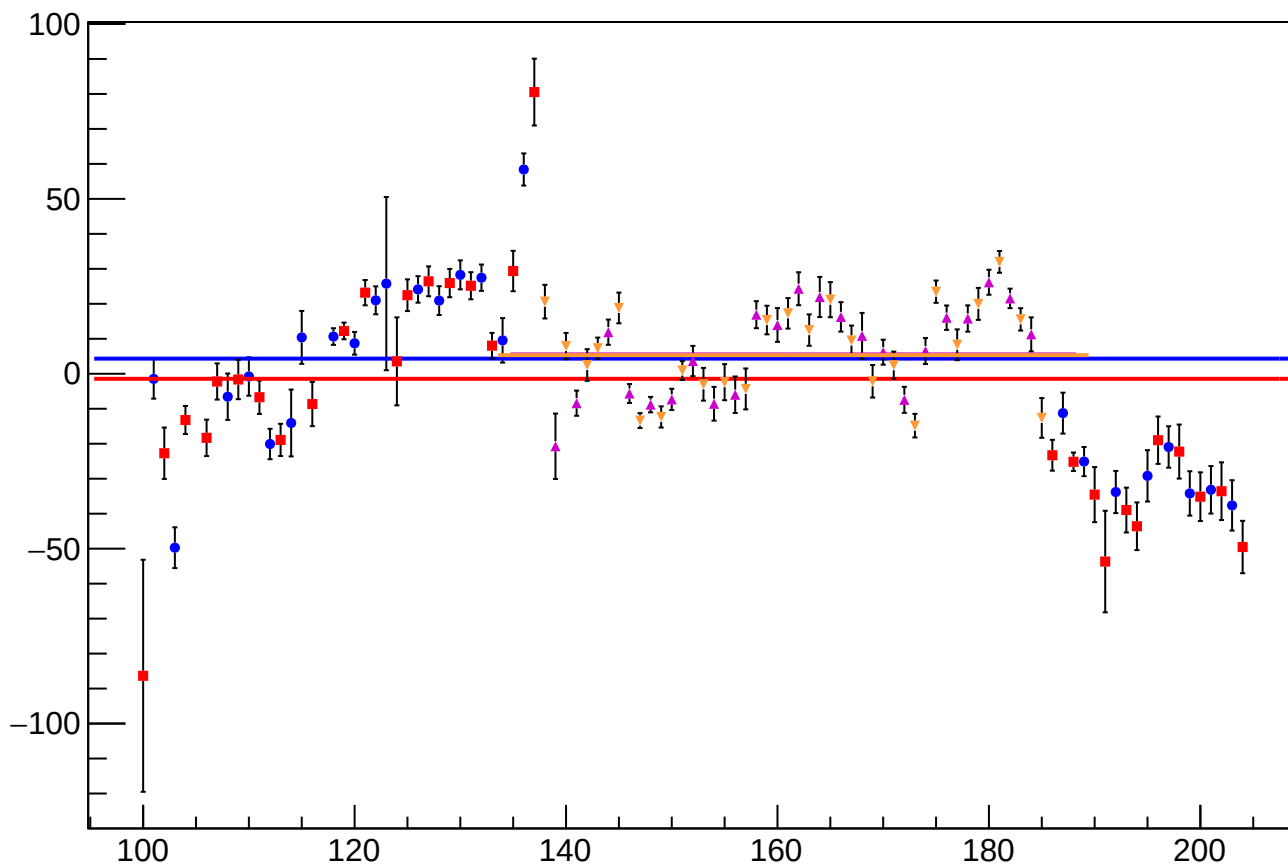
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 157.086 ± 1.755 $\chi^2/\text{NDF}: 710.7/7$
 Left Out: 173.229 ± 0.966 $\chi^2/\text{NDF}: 5846.0/24$
 Right Out: 183.879 ± 1.327 $\chi^2/\text{NDF}: 2053.7/10$
 Left In: 183.984 ± 0.991 $\chi^2/\text{NDF}: 3613.7/22$

Left: 178.467 ± 0.692 $\chi^2/\text{NDF}: 9520.1/47$
 Right: 174.133 ± 1.058 $\chi^2/\text{NDF}: 2912.7/18$
 In: 177.481 ± 0.863 $\chi^2/\text{NDF}: 4502.5/30$
 Out: 176.916 ± 0.781 $\chi^2/\text{NDF}: 7941.8/35$
 All: 177.171 ± 0.579 $\chi^2/\text{NDF}: 12444.5/66$

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.326 ± 0.957 χ^2/NDF : 644.8/24

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -1.440 ± 0.890 χ^2/NDF : 704.7/29

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

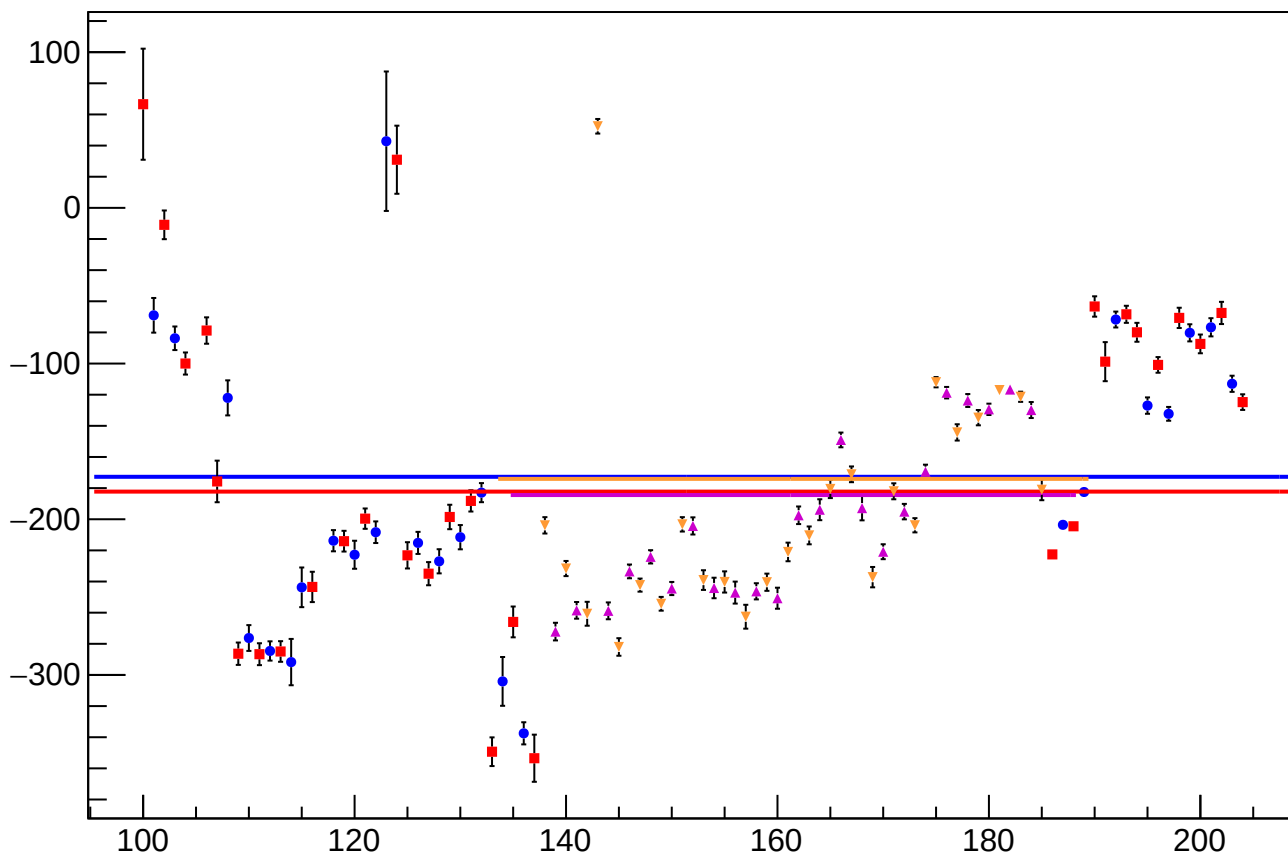
Right: 1.234 ± 0.652 χ^2/NDF : 1369.0/54

In: 5.047 ± 0.605 χ^2/NDF : 902.1/47

Out: 2.526 ± 0.572 χ^2/NDF : 1084.1/54

All: 3.717 ± 0.416 χ^2/NDF : 1995.3/102

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -172.730 ± 1.209 χ^2/NDF : 3013.4/24

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -182.243 ± 0.963 χ^2/NDF : 4827.0/29

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

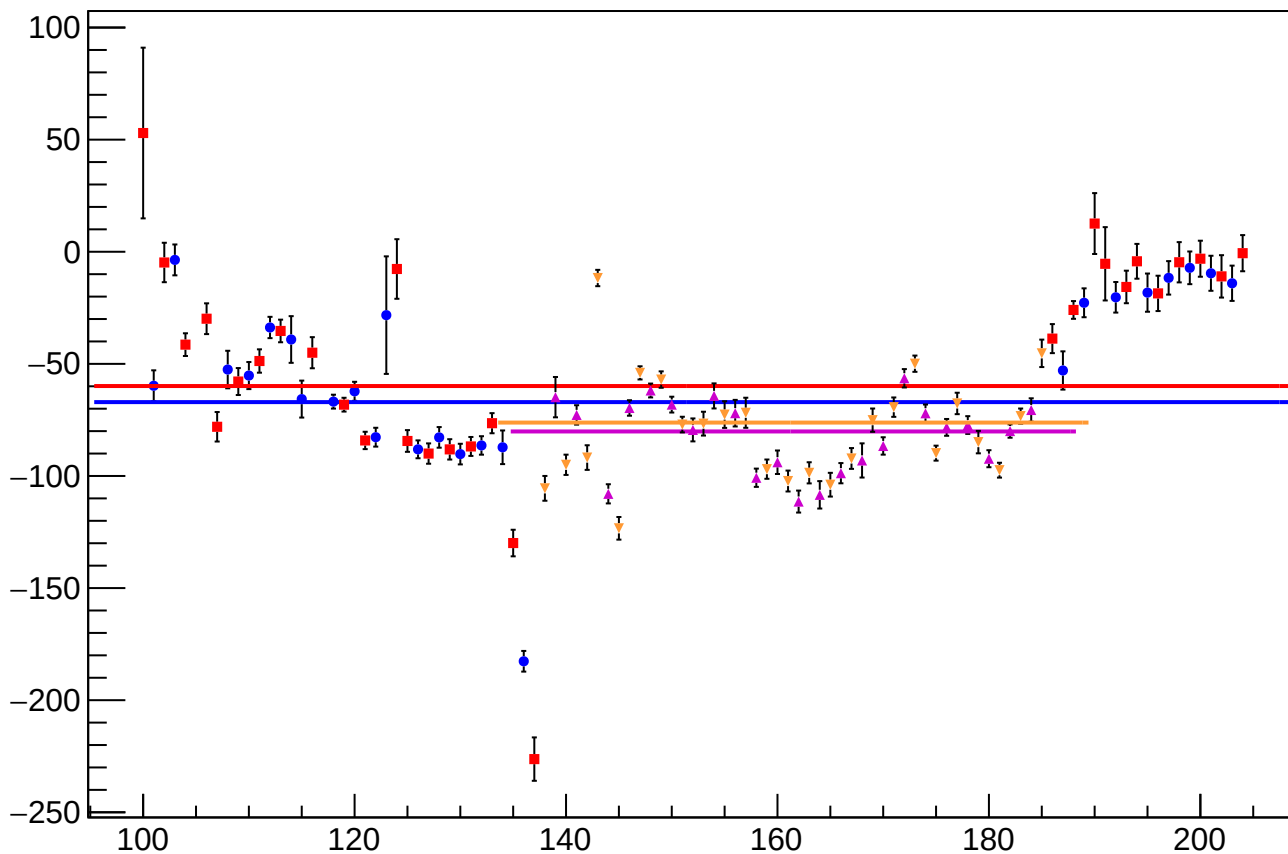
Right: -178.549 ± 0.753 χ^2/NDF : 7878.2/54

In: -179.746 ± 0.766 χ^2/NDF : 6121.3/47

Out: -178.185 ± 0.684 χ^2/NDF : 10306.0/54

All: -178.877 ± 0.510 χ^2/NDF : 16429.6/102

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.058 ± 1.123 $\chi^2/\text{NDF}: 1240.7/24$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -59.889 ± 1.061 $\chi^2/\text{NDF}: 1189.8/29$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

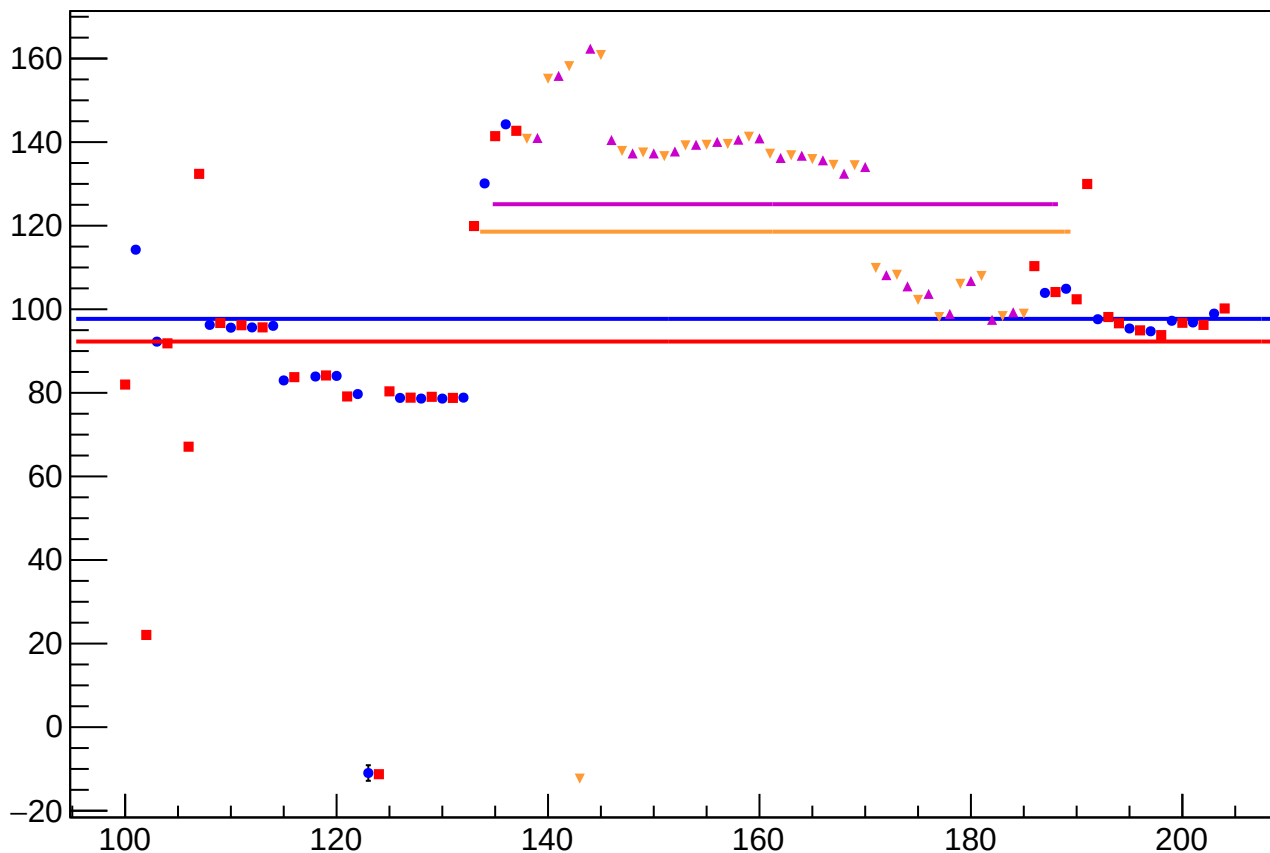
Right: -63.273 ± 0.771 $\chi^2/\text{NDF}: 2452.0/54$

In: -75.103 ± 0.697 $\chi^2/\text{NDF}: 1607.5/47$

Out: -69.749 ± 0.667 $\chi^2/\text{NDF}: 2133.4/54$

All: -72.308 ± 0.482 $\chi^2/\text{NDF}: 3771.7/102$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.703 $\pm$ 0.057 χ^2 /NDF: 94881.5/24

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.279 $\pm$ 0.052 χ^2 /NDF: 241063.5/29

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

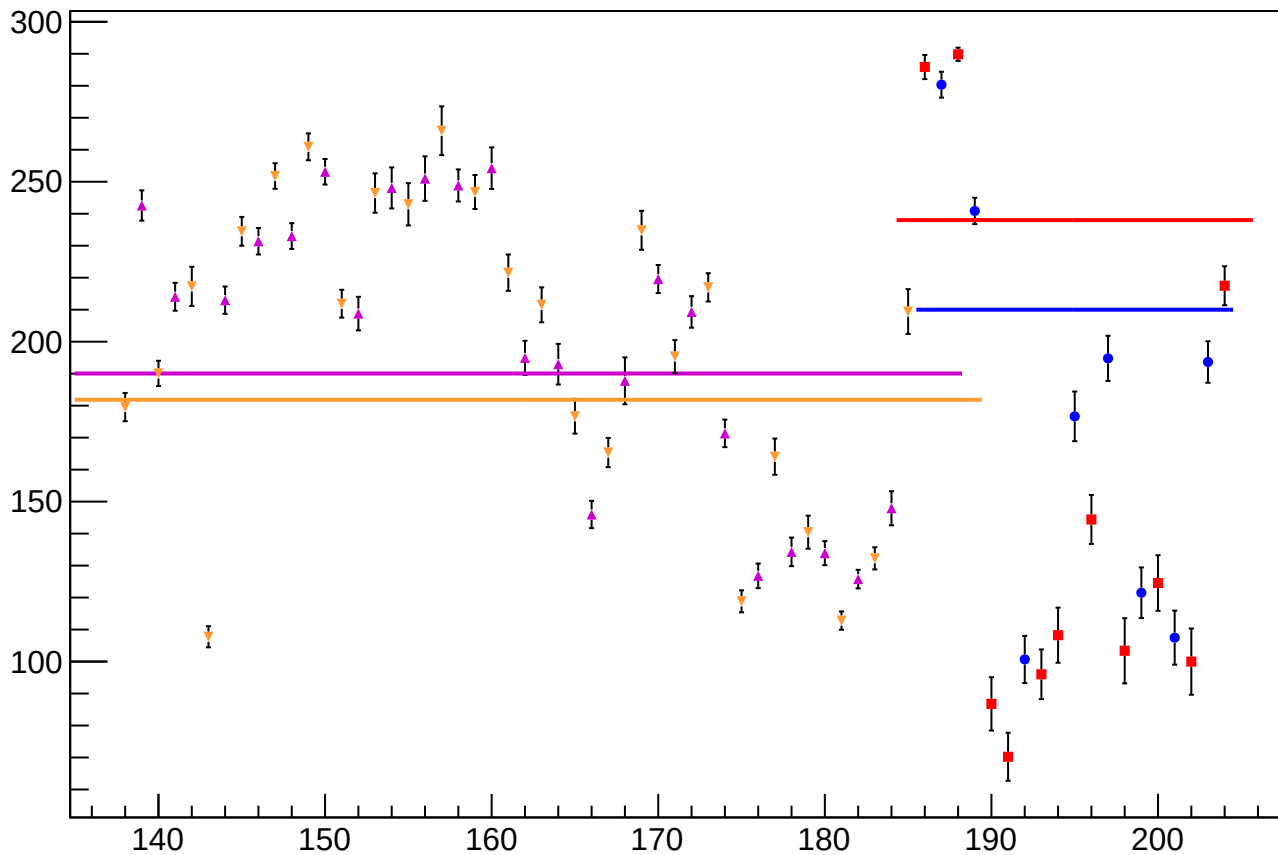
Right: 94.756 $\pm$ 0.039 χ^2 /NDF: 340826.8/54

In: 115.748 $\pm$ 0.033 χ^2 /NDF: 466994.3/47

Out: 108.752 $\pm$ 0.032 χ^2 /NDF: 1127151.0/54

All: 112.098 $\pm$ 0.023 χ^2 /NDF: 1616925.9/102

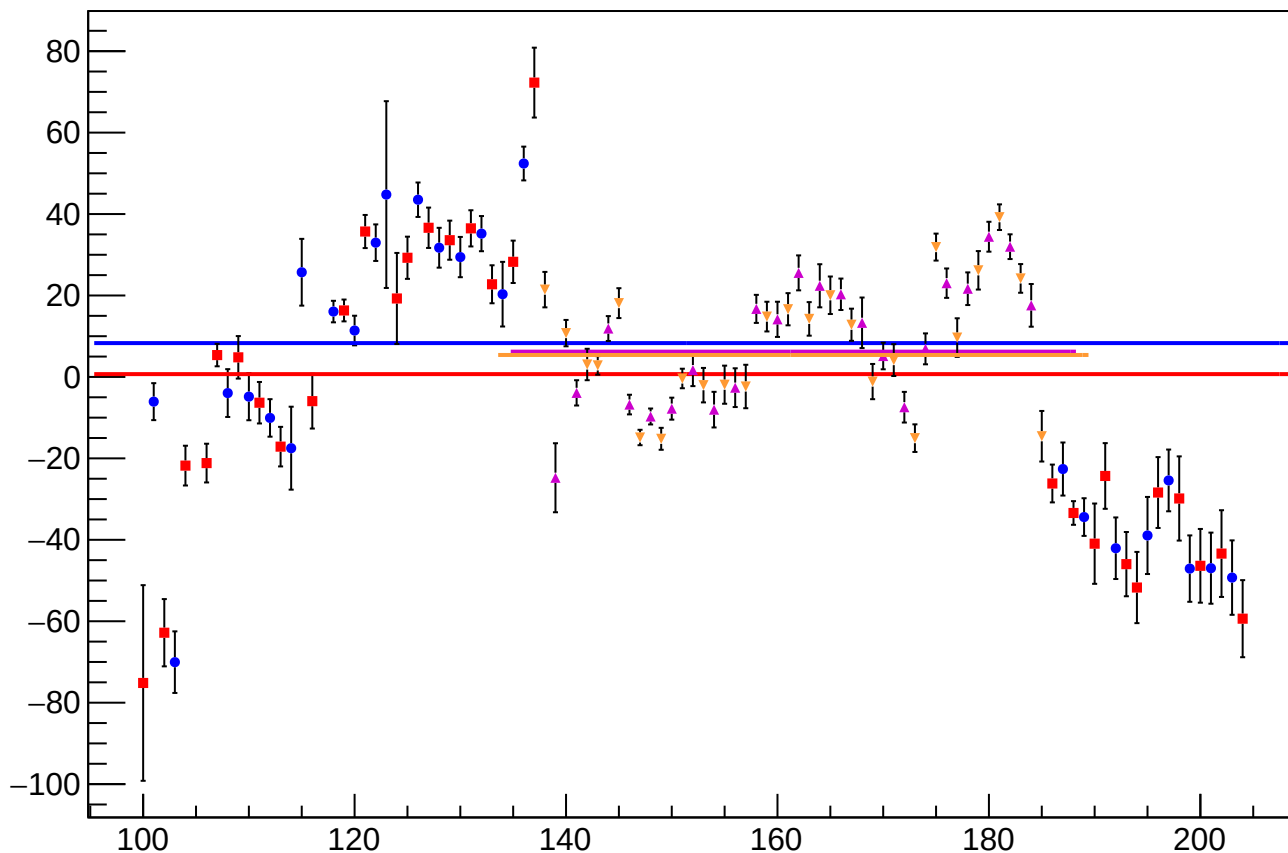
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 209.998 $\pm$ 2.089 χ^2 /NDF: 881.1/7
 Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24
 Right Out: 238.003 $\pm$ 1.503 χ^2 /NDF: 2863.8/10
 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: 228.453 $\pm$ 1.220 χ^2 /NDF: 3863.3/18
 In: 193.483 $\pm$ 0.867 χ^2 /NDF:3394.9/30
 Out: 196.995 $\pm$ 0.781 χ^2 /NDF:7186.6/35
 All: 195.422 $\pm$ 0.580 χ^2 /NDF: 10590.6/66

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.308 ± 1.060 $\chi^2/\text{NDF}: 783.2/24$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: 0.690 ± 0.943 $\chi^2/\text{NDF}: 930.9/29$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

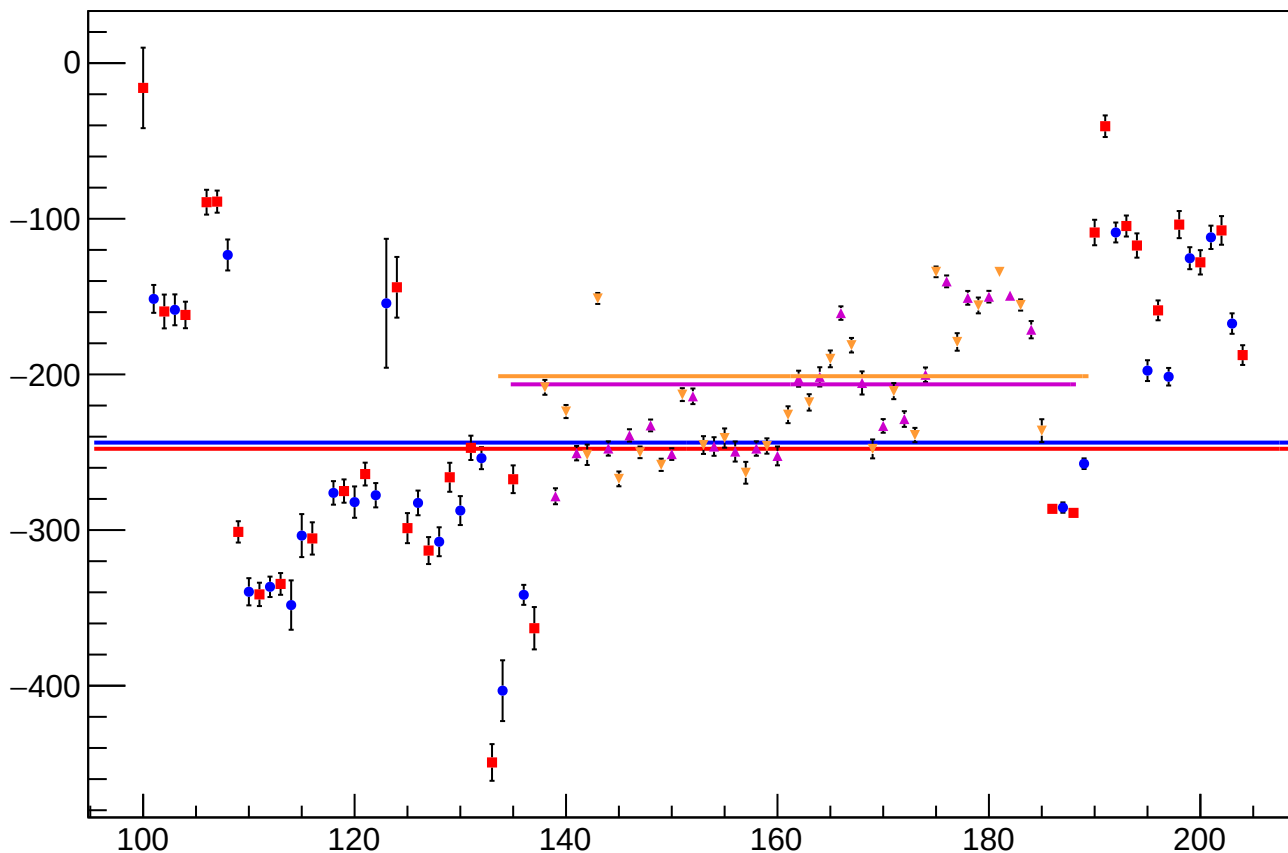
Right: 4.055 ± 0.705 $\chi^2/\text{NDF}: 1742.9/54$

In: 6.884 ± 0.602 $\chi^2/\text{NDF}: 1193.4/47$

Out: 3.760 ± 0.556 $\chi^2/\text{NDF}: 1473.7/54$

All: 5.197 ± 0.408 $\chi^2/\text{NDF}: 2681.6/102$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -243.801 $\pm$ 1.382 χ^2 /NDF: 2606.7/24

Left Out: -201.144 $\pm$ 0.918 χ^2 /NDF:2488.8/24

Right Out: -247.779 $\pm$ 1.065 χ^2 /NDF: 5759.7/29

Left In: -206.379 $\pm$ 0.950 χ^2 /NDF:2111.6/22

Left: -203.672 $\pm$ 0.660 χ^2 /NDF: 4616.1/47

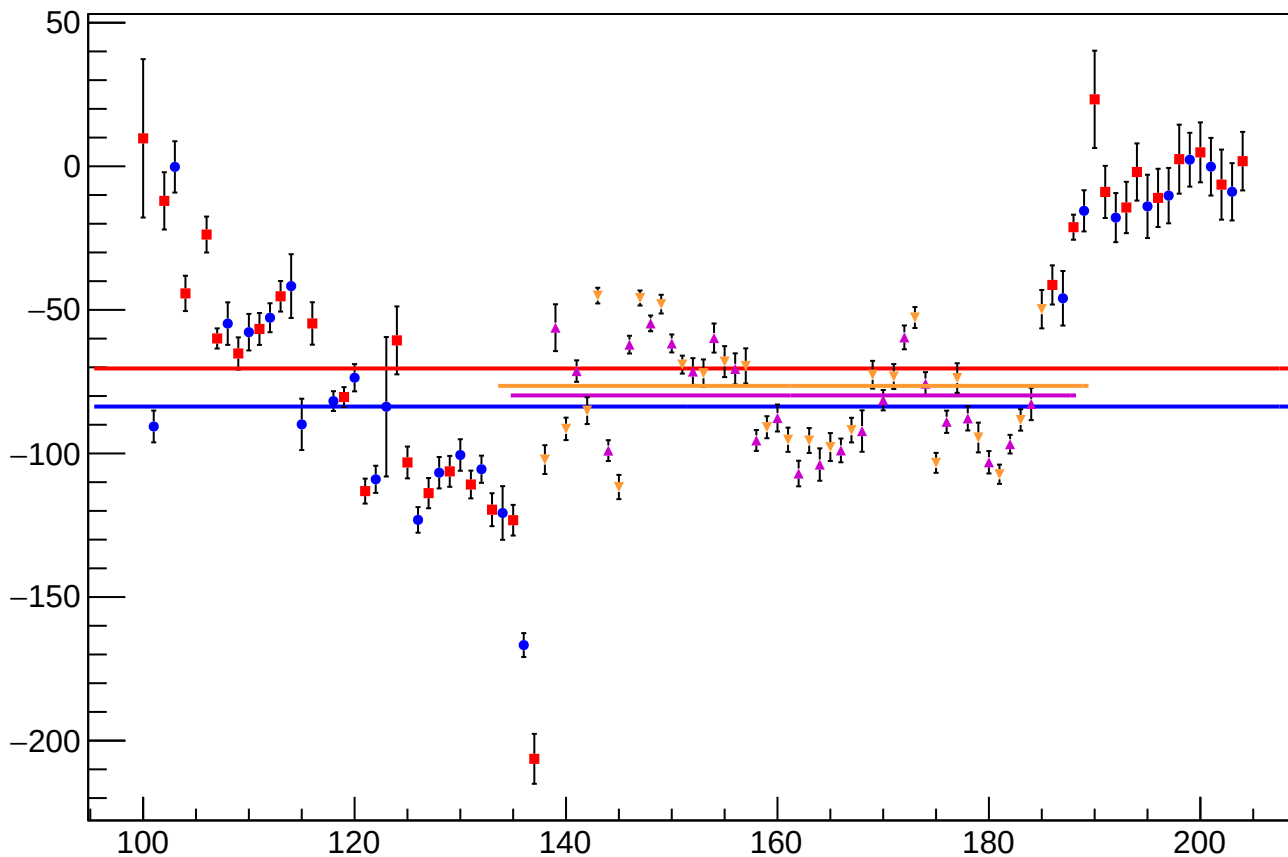
Right: -246.297 $\pm$ 0.843 χ^2 /NDF: 8371.6/54

In: -218.386 $\pm$ 0.783 χ^2 /NDF:5216.5/47

Out: -221.026 $\pm$ 0.695 χ^2 /NDF:9349.2/54

All: -219.862 $\pm$ 0.520 χ^2 /NDF: 14572.1/102

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -83.663 ± 1.242 $\chi^2/\text{NDF}: 1219.9/24$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -70.401 ± 1.128 $\chi^2/\text{NDF}: 1406.4/29$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

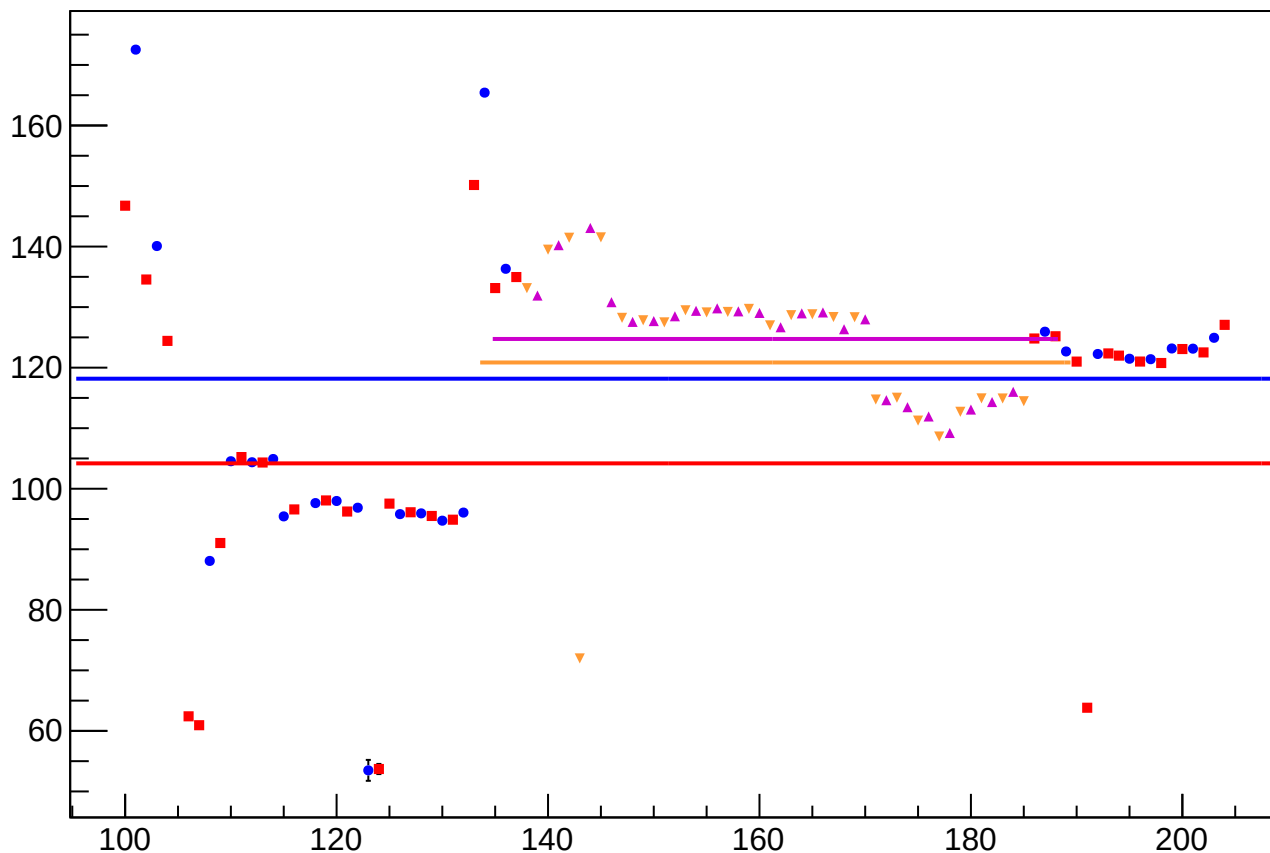
Right: -76.399 ± 0.835 $\chi^2/\text{NDF}: 2688.8/54$

In: -81.007 ± 0.696 $\chi^2/\text{NDF}: 1638.8/47$

Out: -74.444 ± 0.651 $\chi^2/\text{NDF}: 2207.0/54$

All: -77.507 ± 0.475 $\chi^2/\text{NDF}: 3893.3/102$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.175 $\pm$ 0.065 χ^2 /NDF: 108217.1/24

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 104.190 $\pm$ 0.056 χ^2 /NDF: 238372.0/29

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

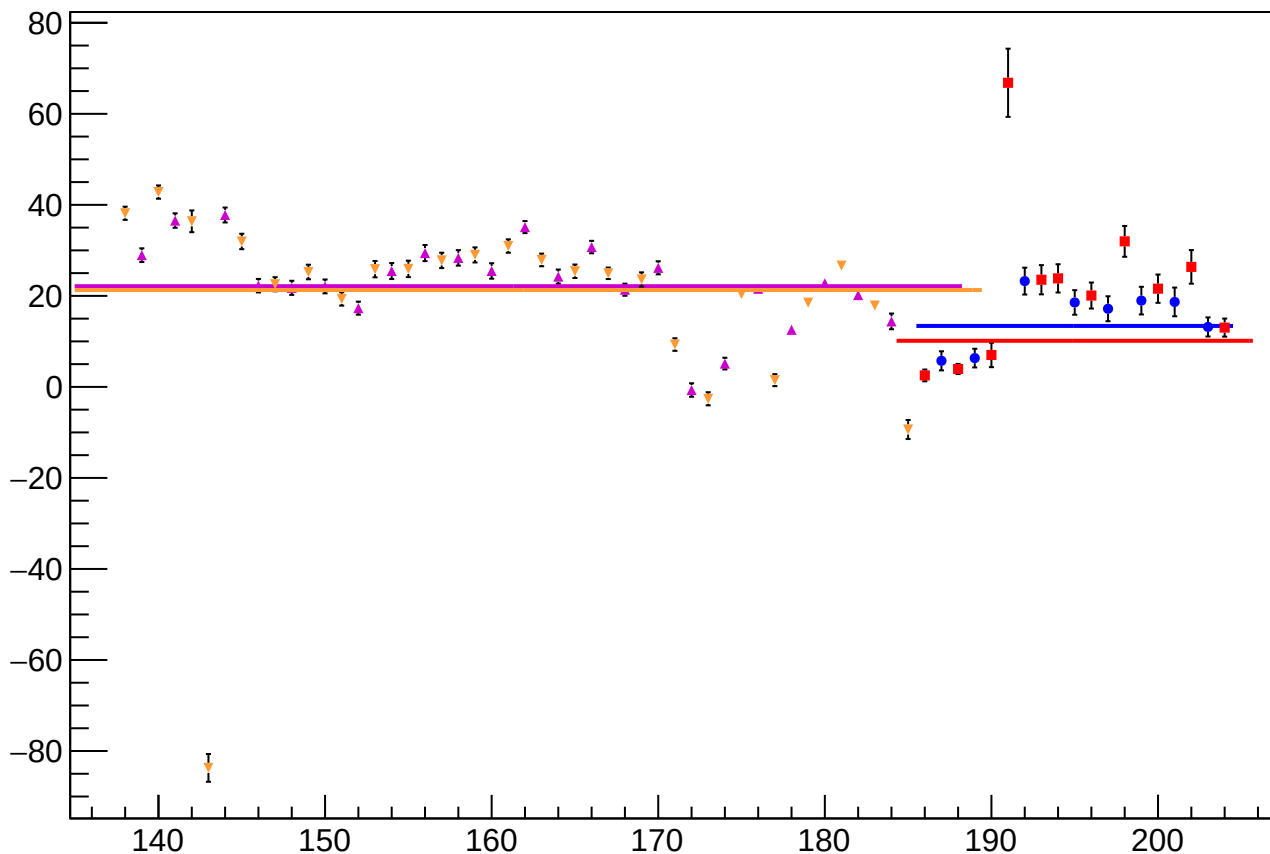
Right: 110.143 $\pm$ 0.042 χ^2 /NDF: 373388.5/54

In: 122.974 $\pm$ 0.034 χ^2 /NDF:167029.2/47

Out: 115.557 $\pm$ 0.031 χ^2 /NDF:482103.1/54

All: 119.022 $\pm$ 0.023 χ^2 /NDF: 675154.1/102

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.396 $\pm$ 0.882 χ^2 /NDF: 48.1/7

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 10.134 $\pm$ 0.645 χ^2 /NDF: 249.8/10

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

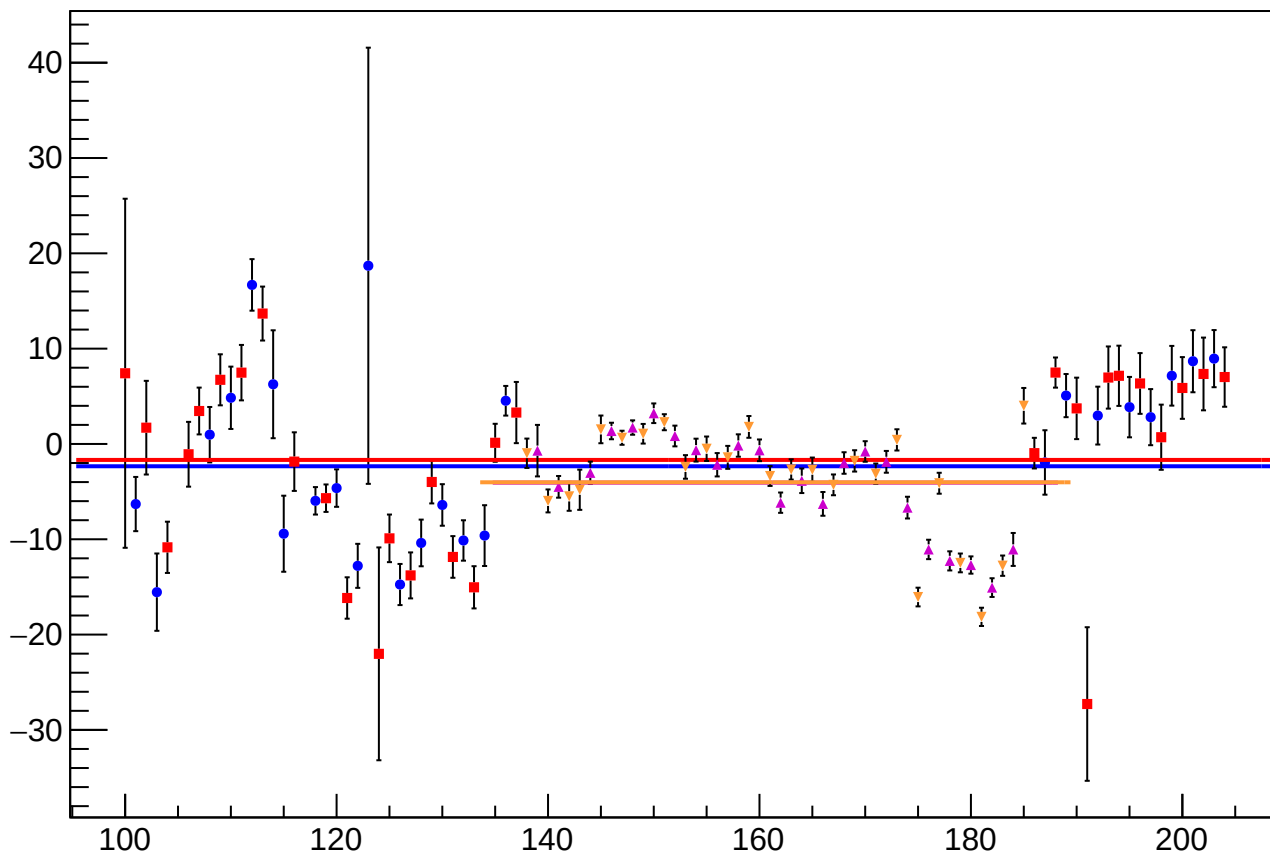
Right: 11.272 $\pm$ 0.521 χ^2 /NDF: 306.8/18

In: 21.299 $\pm$ 0.272 χ^2 /NDF:1037.0/30

Out: 19.490 $\pm$ 0.259 χ^2 /NDF:3100.7/35

All: 20.351 $\pm$ 0.187 χ^2 /NDF: 4160.9/66

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.340 ± 0.513 χ^2/NDF : 243.7/24

Left Out: -4.022 ± 0.223 χ^2/NDF : 734.1/24

Right Out: -1.675 ± 0.473 χ^2/NDF : 307.2/29

Left In: -4.059 ± 0.228 χ^2/NDF : 577.2/22

Left: -4.040 ± 0.159 χ^2/NDF : 1311.4/47

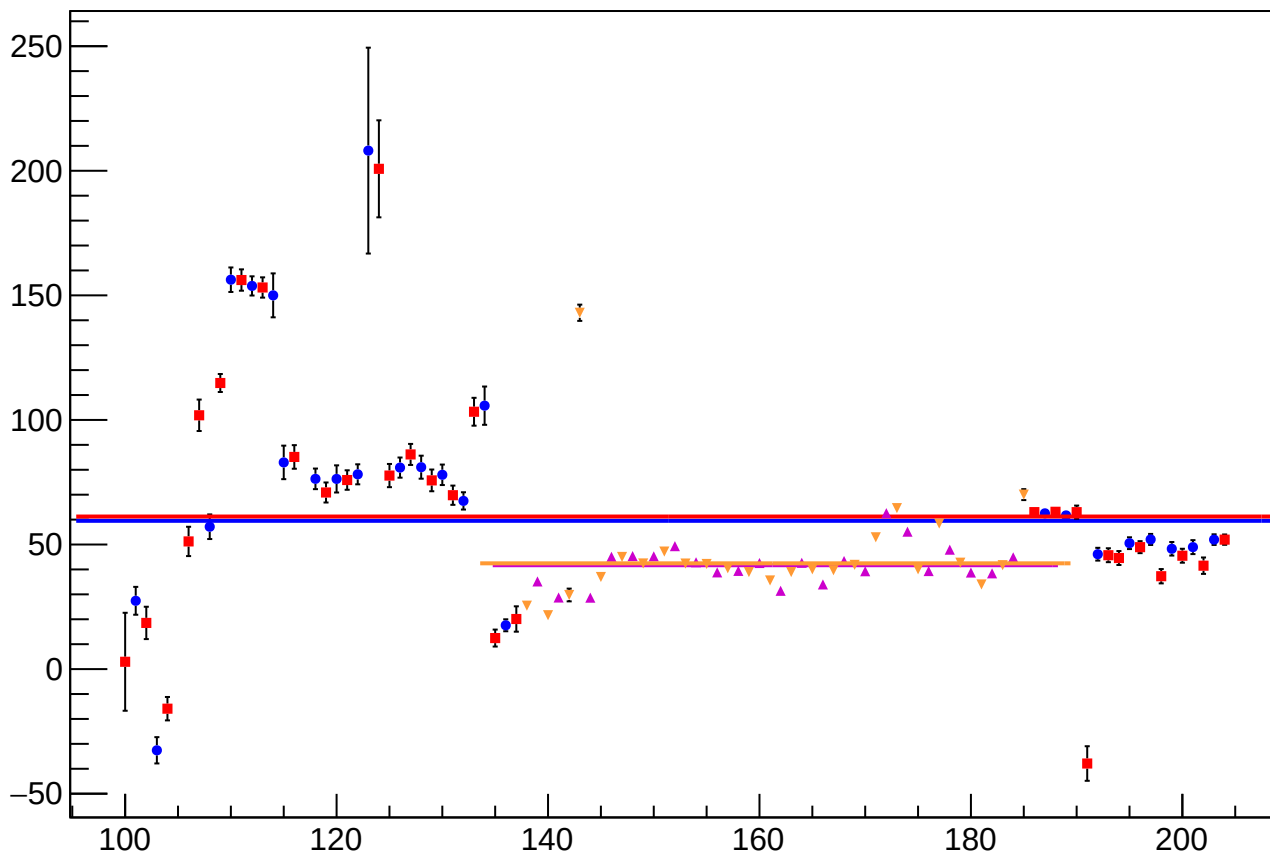
Right: -1.981 ± 0.348 χ^2/NDF : 551.8/54

In: -3.775 ± 0.208 χ^2/NDF : 830.3/47

Out: -3.595 ± 0.202 χ^2/NDF : 1061.4/54

All: -3.682 ± 0.145 χ^2/NDF : 1892.1/102

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 59.516 $\pm$ 0.629 χ^2 /NDF: 2020.4/24

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 61.235 $\pm$ 0.488 χ^2 /NDF: 2535.1/29

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF:630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

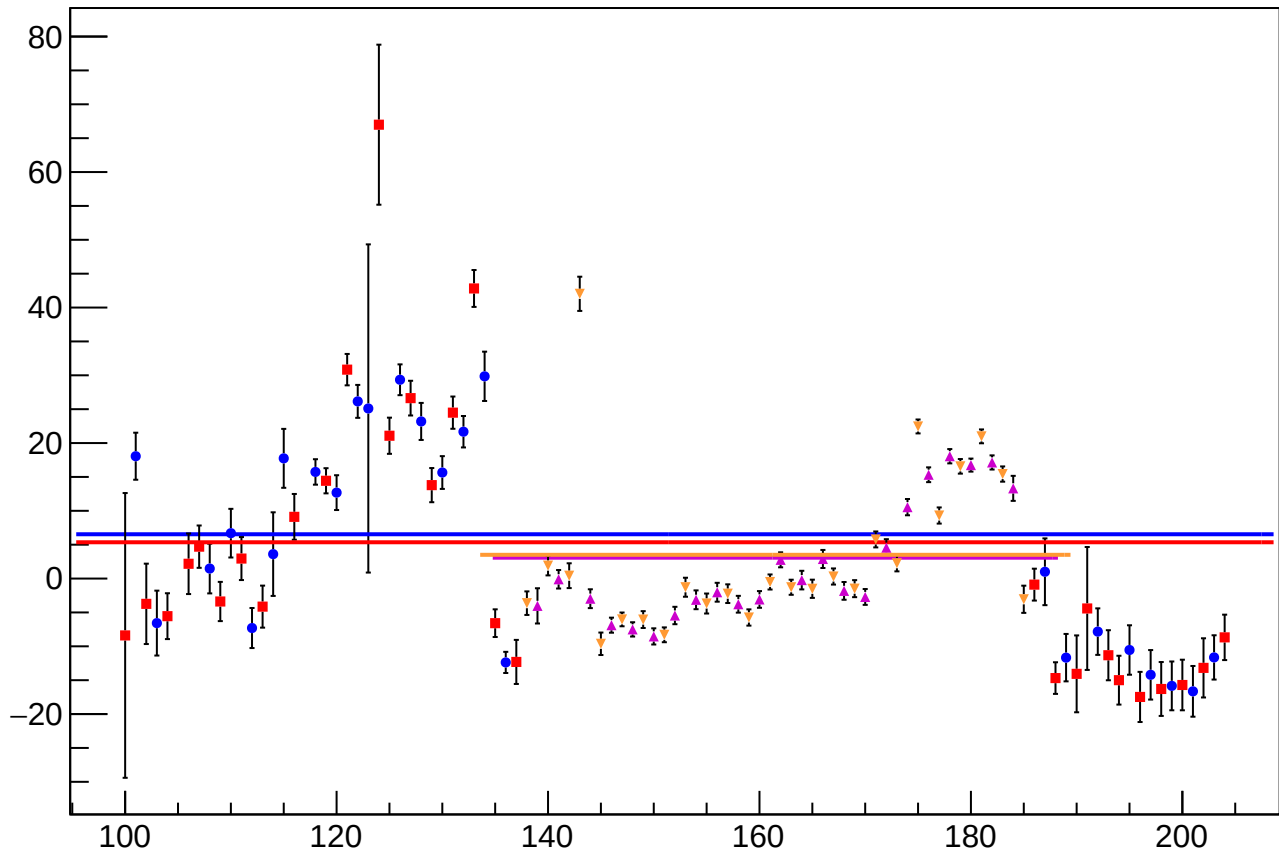
Right: 60.590 $\pm$ 0.386 χ^2 /NDF: 4560.1/54

In: 44.712 $\pm$ 0.259 χ^2 /NDF:3316.6/47

Out: 47.156 $\pm$ 0.244 χ^2 /NDF:5662.5/54

All: 46.006 $\pm$ 0.178 χ^2 /NDF: 9026.3/102

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.540 $\pm$ 0.593 χ^2 /NDF: 734.8/24

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 5.357 $\pm$ 0.562 χ^2 /NDF: 919.5/29

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

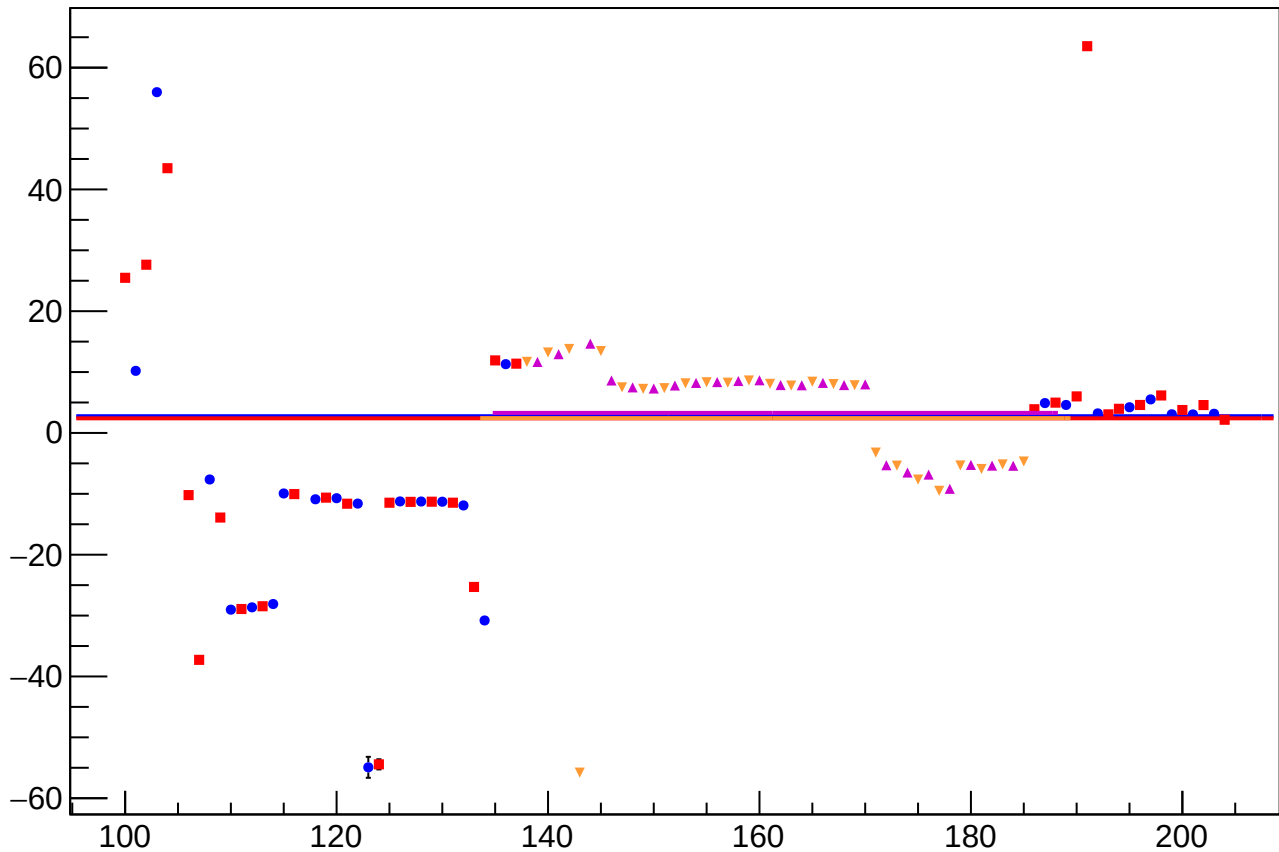
Right: 5.917 $\pm$ 0.408 χ^2 /NDF: 1656.4/54

In: 3.629 $\pm$ 0.236 χ^2 /NDF:2029.1/47

Out: 3.816 $\pm$ 0.230 χ^2 /NDF:2619.9/54

All: 3.725 $\pm$ 0.165 χ^2 /NDF: 4649.3/102

reg_asym_atl_dd_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.748 $\pm$ 0.028 χ^2 /NDF: 359221.4/24

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.399 $\pm$ 0.027 χ^2 /NDF: 431245.4/29

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

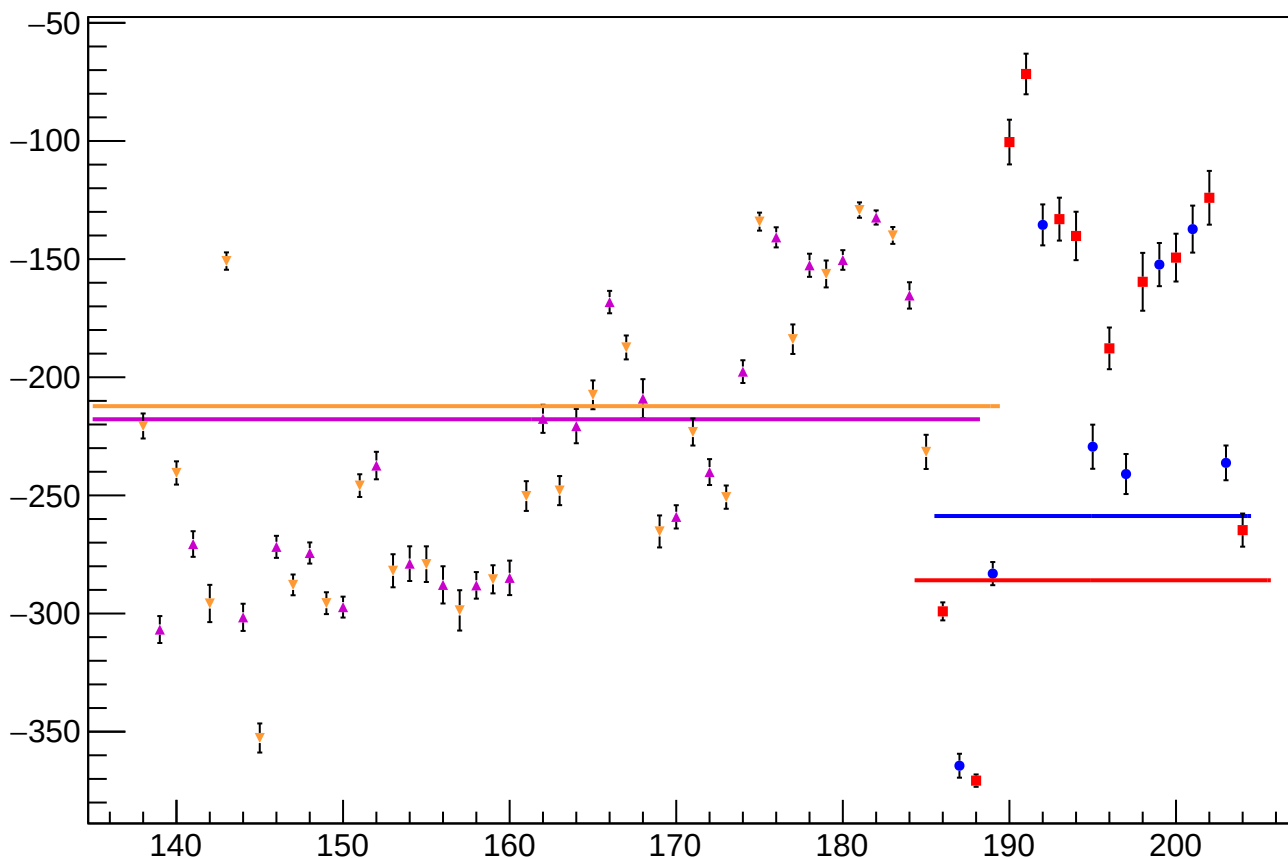
Right: 2.565 $\pm$ 0.019 χ^2 /NDF: 790547.7/54

In: 3.213 $\pm$ 0.011 χ^2 /NDF: 763865.0/47

Out: 2.421 $\pm$ 0.011 χ^2 /NDF: 1047628.6/54

All: 2.811 $\pm$ 0.008 χ^2 /NDF: 1814235.6/102

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -258.731 ± 2.500 χ^2/NDF : 970.9/7

Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24

Right Out: -285.928 ± 1.770 χ^2/NDF : 3181.0/10

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

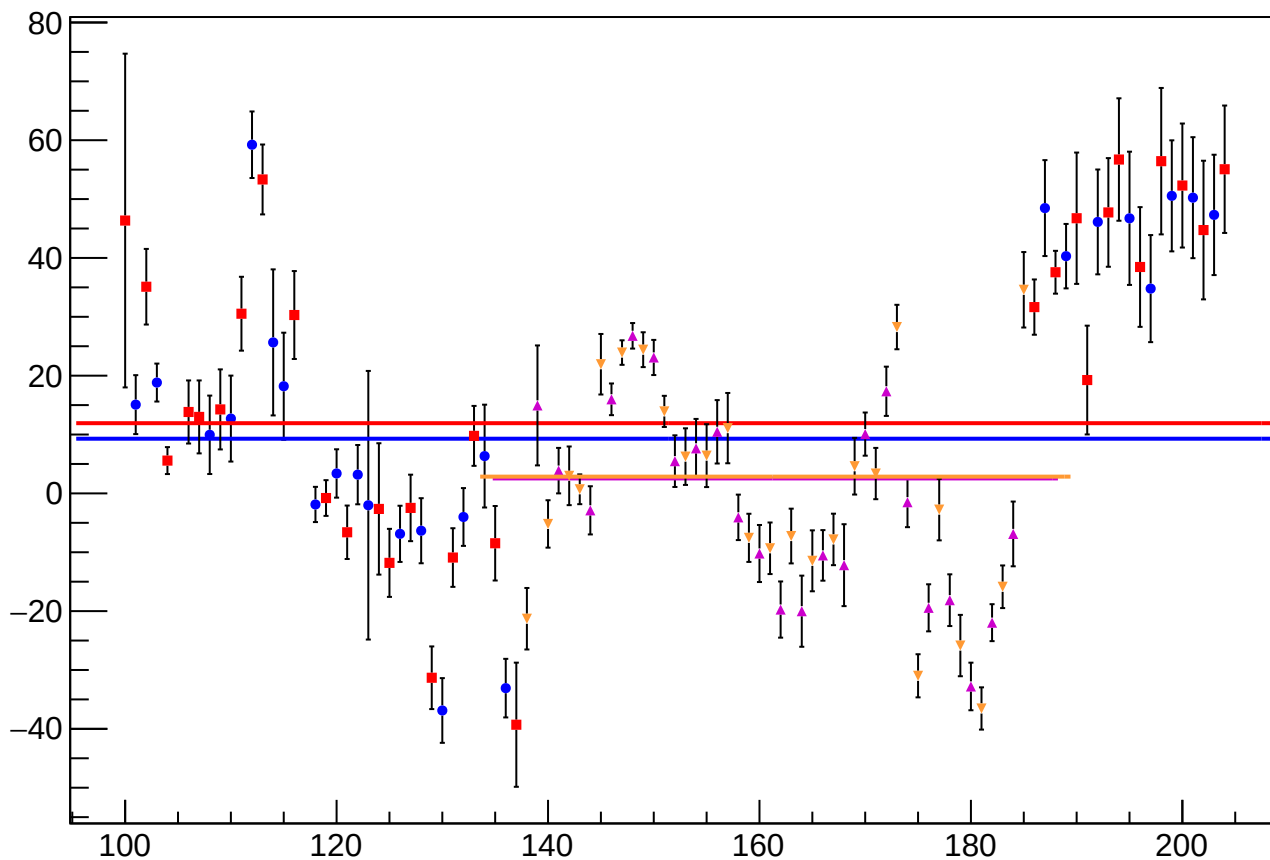
Right: -276.848 ± 1.445 χ^2/NDF : 4230.7/18

In: -224.086 ± 0.981 χ^2/NDF : 4646.8/30

Out: -230.856 ± 0.890 χ^2/NDF : 8351.6/35

All: -227.801 ± 0.659 χ^2/NDF : 13024.5/66

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.289 ± 1.150 χ^2/NDF : 418.8/24

Left Out: 2.848 ± 0.775 χ^2/NDF : 582.1/24

Right Out: 11.927 ± 1.027 χ^2/NDF : 435.7/29

Left In: 2.540 ± 0.822 χ^2/NDF : 473.6/22

Left: 2.703 ± 0.564 χ^2/NDF : 1055.8/47

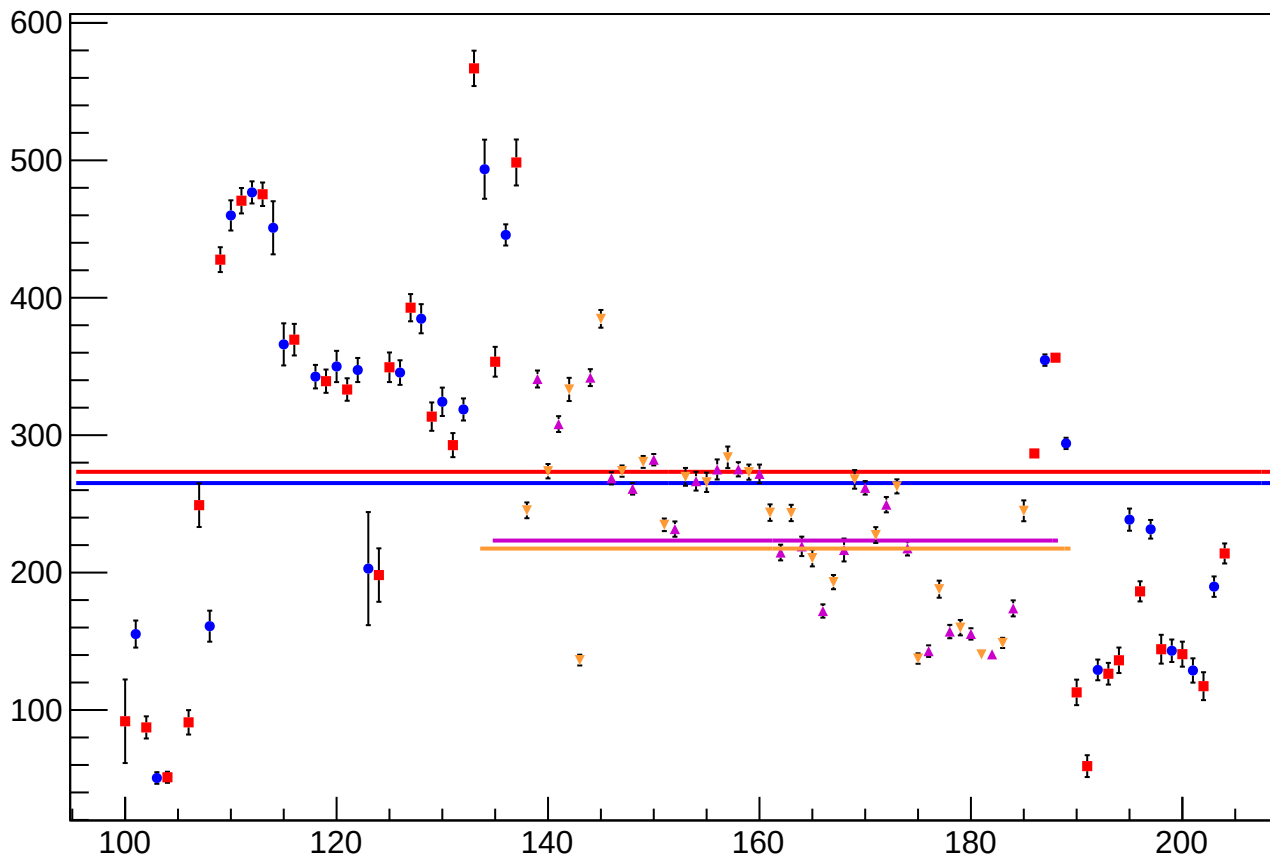
Right: 10.757 ± 0.766 χ^2/NDF : 857.3/54

In: 4.823 ± 0.669 χ^2/NDF : 915.2/47

Out: 6.140 ± 0.618 χ^2/NDF : 1067.6/54

All: 5.533 ± 0.454 χ^2/NDF : 1984.8/102

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 265.139+/-1.538 χ^2/NDF : 6541.3/24

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 273.323+/-1.205 χ^2/NDF : 10483.4/29

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

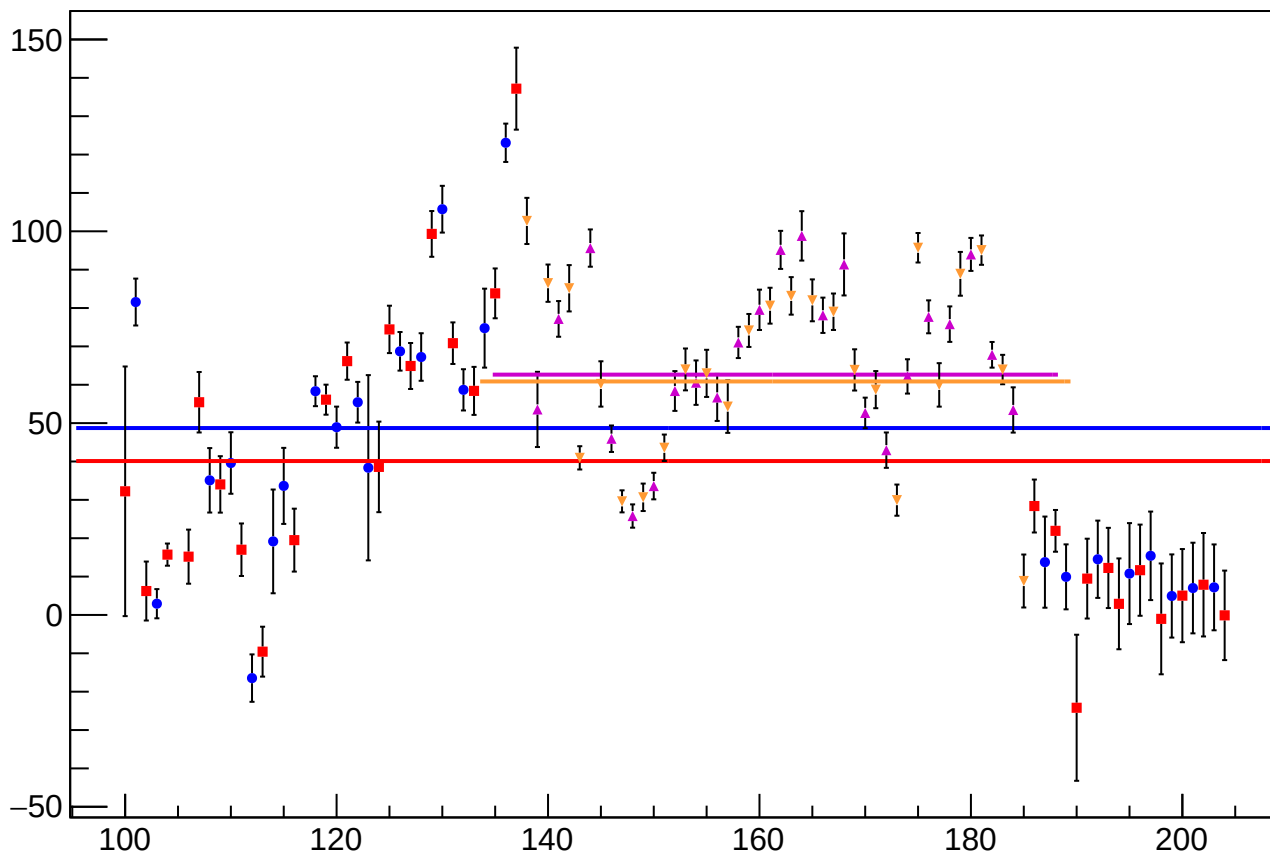
Right: 270.210+/-0.948 χ^2/NDF : 17042.3/54

In: 236.812+/-0.874 χ^2/NDF : 10420.2/47

Out: 241.123+/-0.784 χ^2/NDF : 15491.5/54

All: 239.201+/-0.584 χ^2/NDF : 25925.2/102

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 48.717 ± 1.349 $\chi^2/\text{NDF}: 747.6/24$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 40.115 ± 1.235 $\chi^2/\text{NDF}: 635.2/29$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

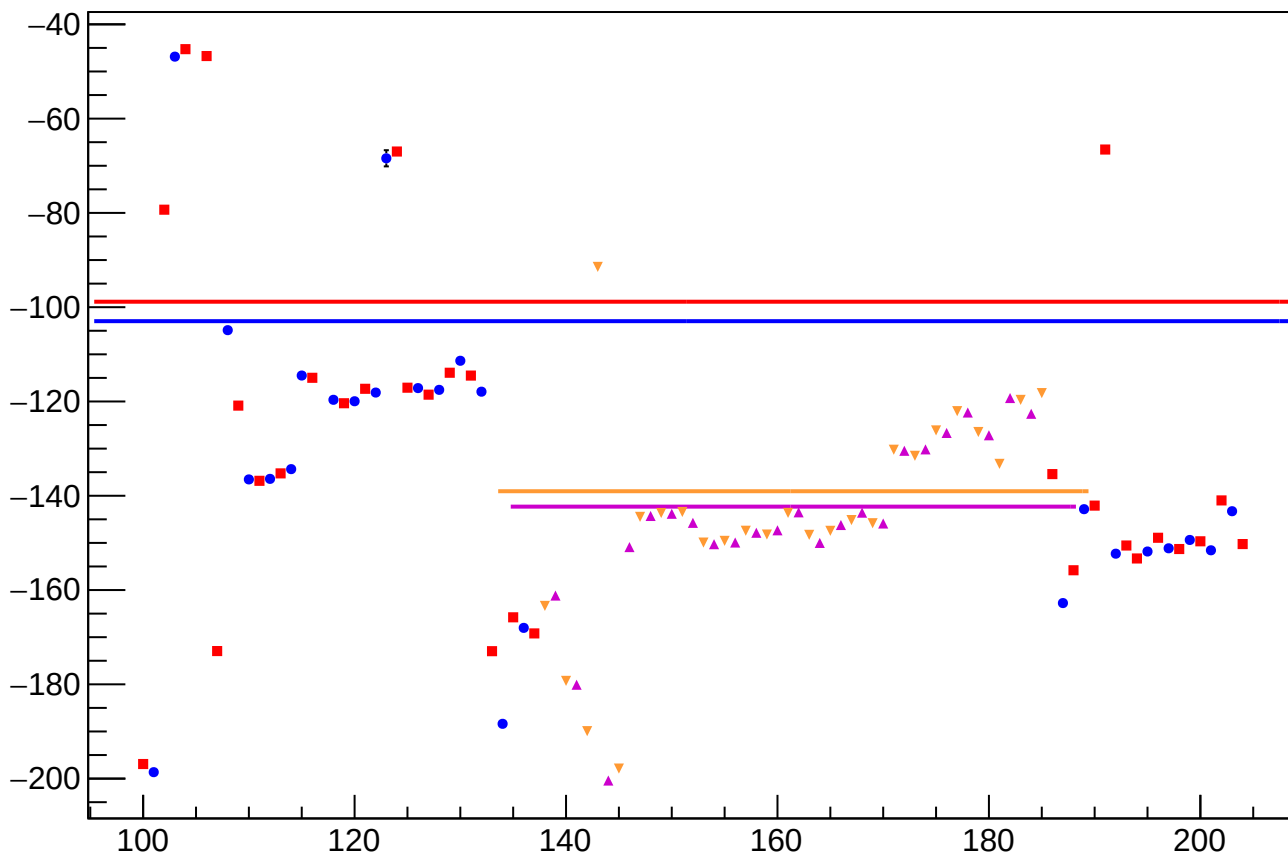
Right: 44.037 ± 0.911 $\chi^2/\text{NDF}: 1405.0/54$

In: 58.071 ± 0.773 $\chi^2/\text{NDF}: 1334.6/47$

Out: 53.699 ± 0.726 $\chi^2/\text{NDF}: 1551.8/54$

All: 55.748 ± 0.529 $\chi^2/\text{NDF}: 2903.4/102$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -102.964+/-0.060 χ^2/NDF : 689817.5/24

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -98.838+/-0.056 χ^2/NDF : 726785.6/29

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

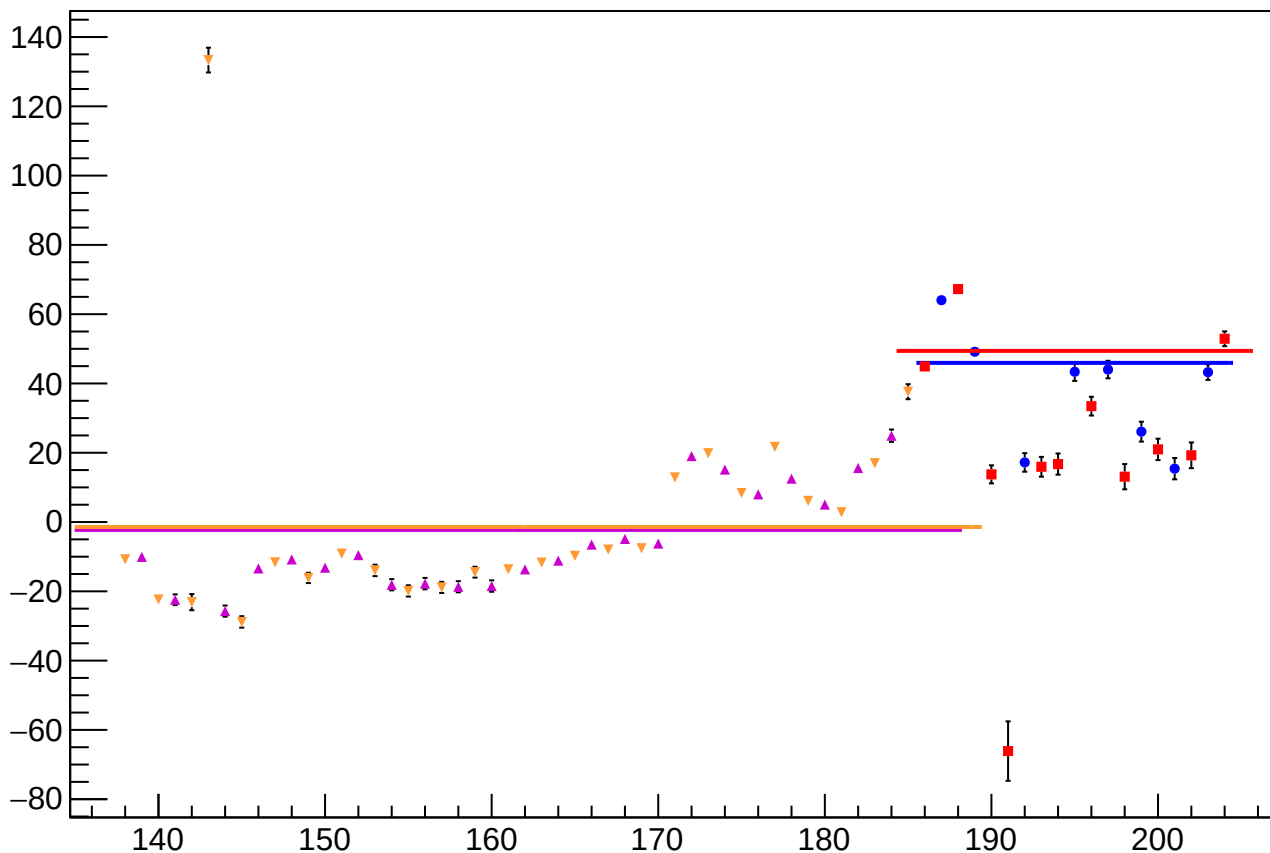
Right: -100.749+/-0.041 χ^2/NDF : 1419105.8/54

In: -128.644+/-0.036 χ^2/NDF : 1109790.8/47

Out: -124.231+/-0.034 χ^2/NDF : 1308858.9/54

All: -126.340+/-0.025 χ^2/NDF : 2426669.4/100

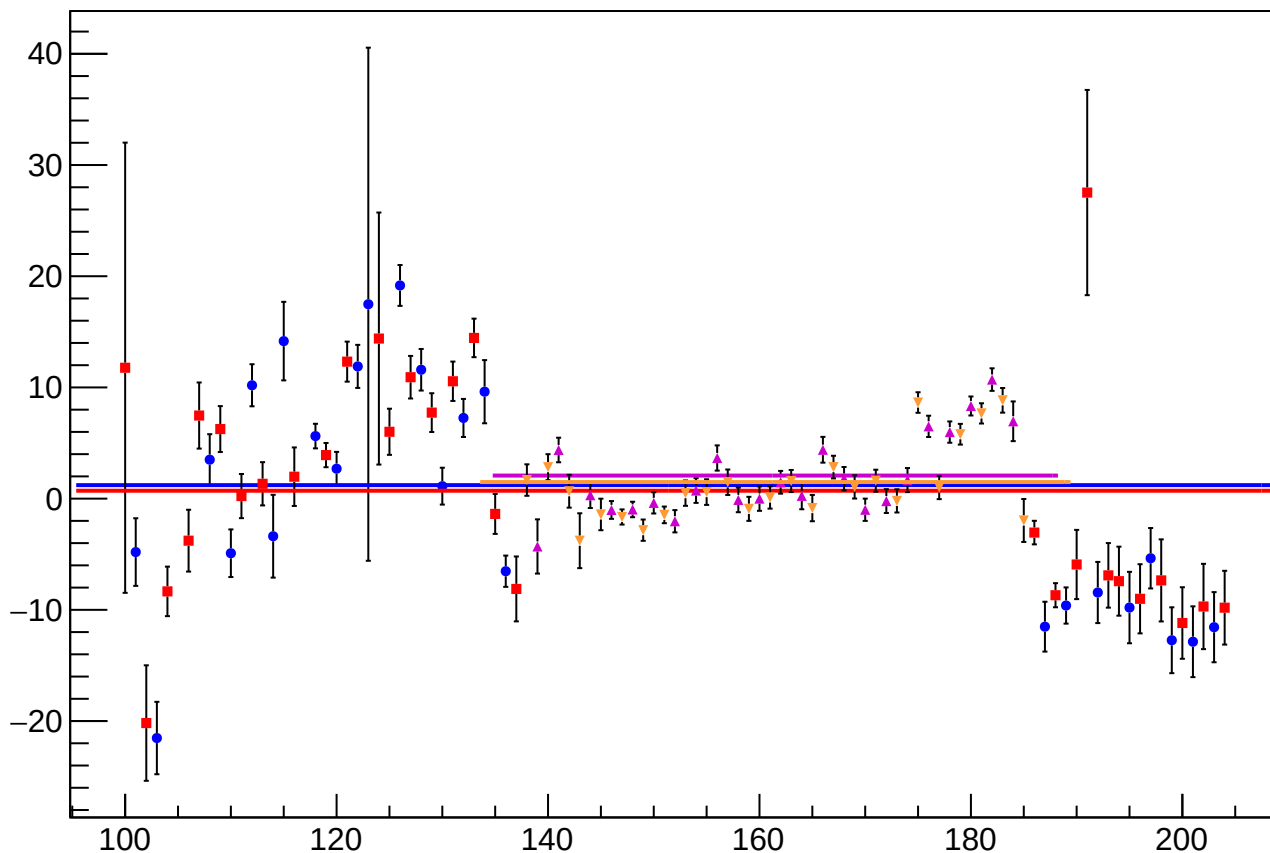
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 45.945 $\pm$ 0.735 χ^2 /NDF: 437.9/7
 Left Out: -1.427 $\pm$ 0.268 χ^2 /NDF: 4339.0/24
 Right Out: 49.408 $\pm$ 0.500 χ^2 /NDF: 1465.1/10
 Left In: -2.270 $\pm$ 0.271 χ^2 /NDF: 2521.6/22

Left: -1.844 $\pm$ 0.190 χ^2 /NDF: 6865.5/47
 Right: 48.312 $\pm$ 0.413 χ^2 /NDF: 1918.2/18
 In: 3.497 $\pm$ 0.254 χ^2 /NDF: 6752.7/30
 Out: 9.904 $\pm$ 0.236 χ^2 /NDF: 13846.2/35
 All: 6.937 $\pm$ 0.173 χ^2 /NDF: 20940.5/66

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.212 ± 0.417 $\chi^2/\text{NDF}: 489.6/24$

Left Out: 1.491 ± 0.210 $\chi^2/\text{NDF}: 259.1/24$

Right Out: 0.713 ± 0.379 $\chi^2/\text{NDF}: 415.9/29$

Left In: 2.075 ± 0.215 $\chi^2/\text{NDF}: 274.6/22$

Left: 1.776 ± 0.150 $\chi^2/\text{NDF}: 537.4/47$

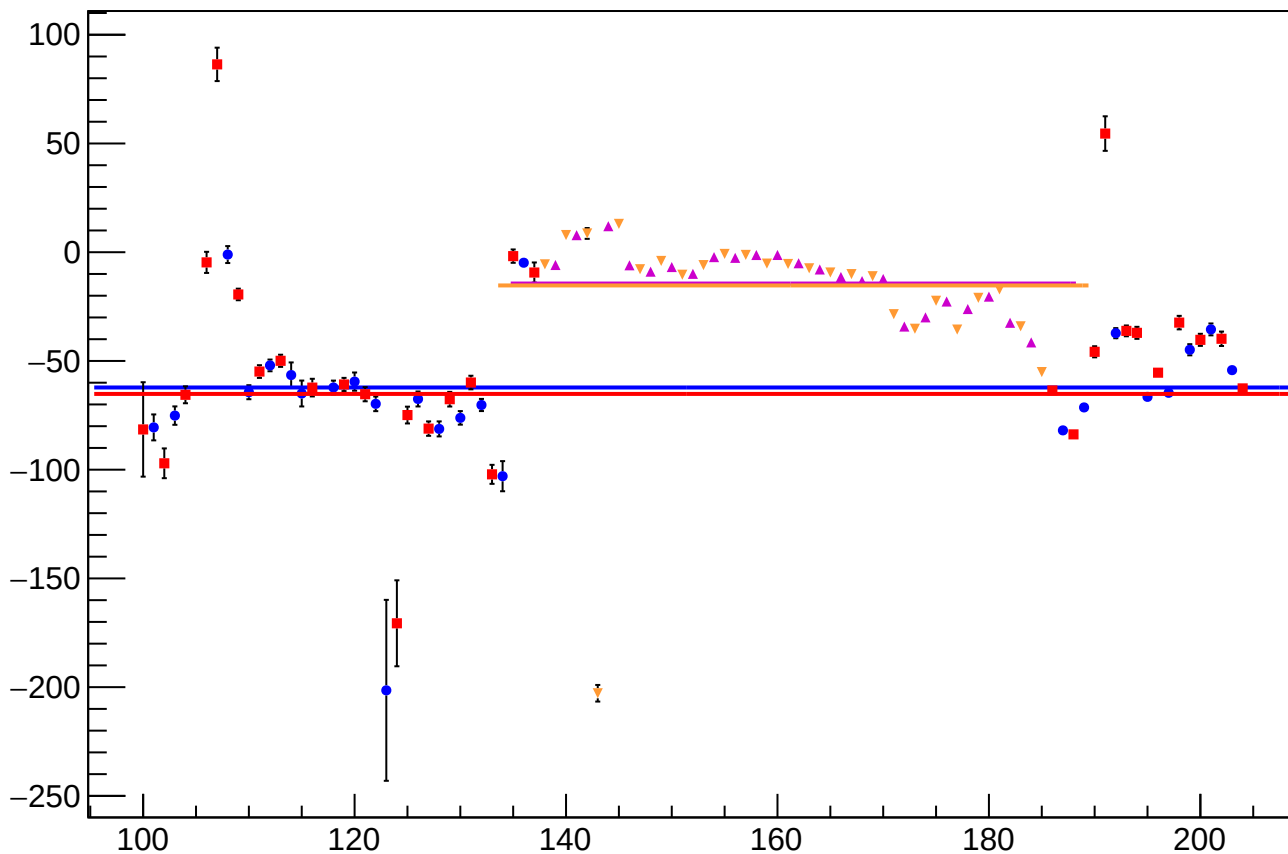
Right: 0.938 ± 0.281 $\chi^2/\text{NDF}: 906.3/54$

In: 1.893 ± 0.191 $\chi^2/\text{NDF}: 767.5/47$

Out: 1.308 ± 0.184 $\chi^2/\text{NDF}: 678.2/54$

All: 1.589 ± 0.133 $\chi^2/\text{NDF}: 1450.6/102$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.200 $\pm$ 0.509 χ^2 /NDF: 1723.3/24

Left Out: -15.279 $\pm$ 0.267 χ^2 /NDF: 4820.1/24

Right Out: -65.161 $\pm$ 0.372 χ^2 /NDF: 3302.6/29

Left In: -14.406 $\pm$ 0.269 χ^2 /NDF: 2032.4/22

Left: -14.846 $\pm$ 0.189 χ^2 /NDF: 6857.8/47

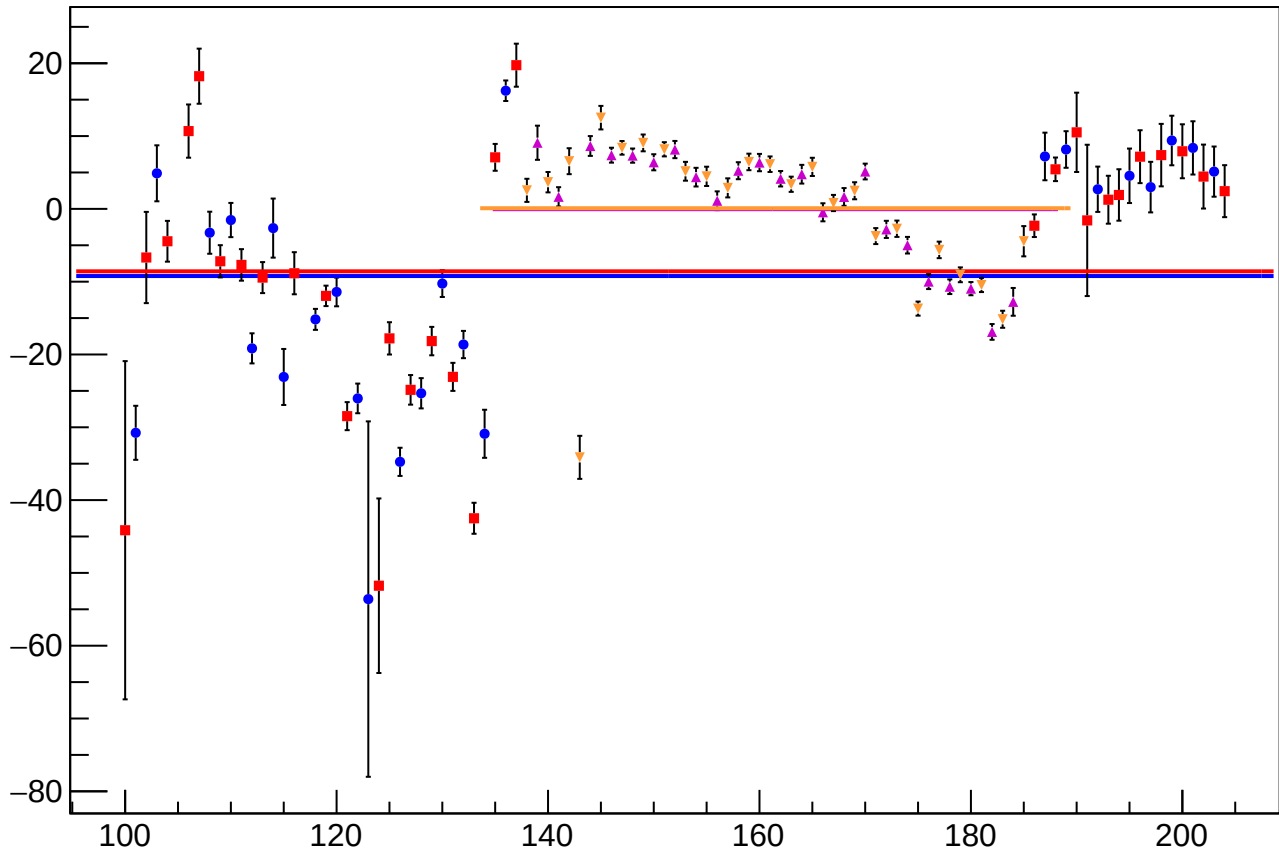
Right: -64.128 $\pm$ 0.300 χ^2 /NDF: 5048.0/54

In: -24.859 $\pm$ 0.238 χ^2 /NDF: 10654.7/47

Out: -32.197 $\pm$ 0.217 χ^2 /NDF: 19979.1/54

All: -28.866 $\pm$ 0.160 χ^2 /NDF: 31153.5/102

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.226 ± 0.487 $\chi^2/\text{NDF}: 1003.0/24$

Left Out: 0.087 ± 0.238 $\chi^2/\text{NDF}: 1172.3/24$

Right Out: -8.577 ± 0.457 $\chi^2/\text{NDF}: 980.9/29$

Left In: -0.044 ± 0.243 $\chi^2/\text{NDF}: 1028.2/22$

Left: 0.023 ± 0.170 $\chi^2/\text{NDF}: 2200.6/47$

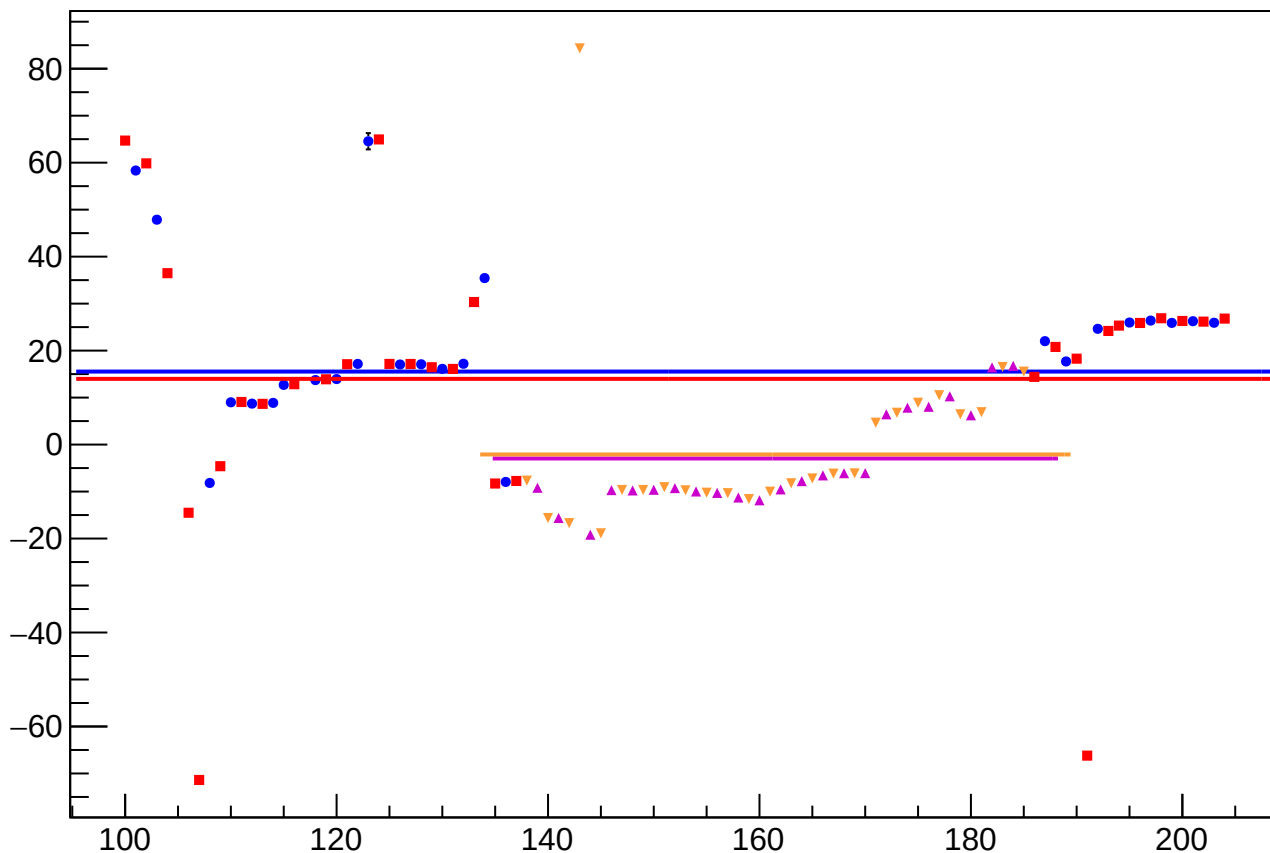
Right: -8.881 ± 0.333 $\chi^2/\text{NDF}: 1984.9/54$

In: -1.874 ± 0.217 $\chi^2/\text{NDF}: 2315.7/47$

Out: -1.766 ± 0.211 $\chi^2/\text{NDF}: 2436.0/54$

All: -1.818 ± 0.152 $\chi^2/\text{NDF}: 4751.8/102$

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 15.540 $\pm$ 0.025 χ^2 /NDF: 464670.9/24

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 13.986 $\pm$ 0.024 χ^2 /NDF: 742792.5/29

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF: 763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

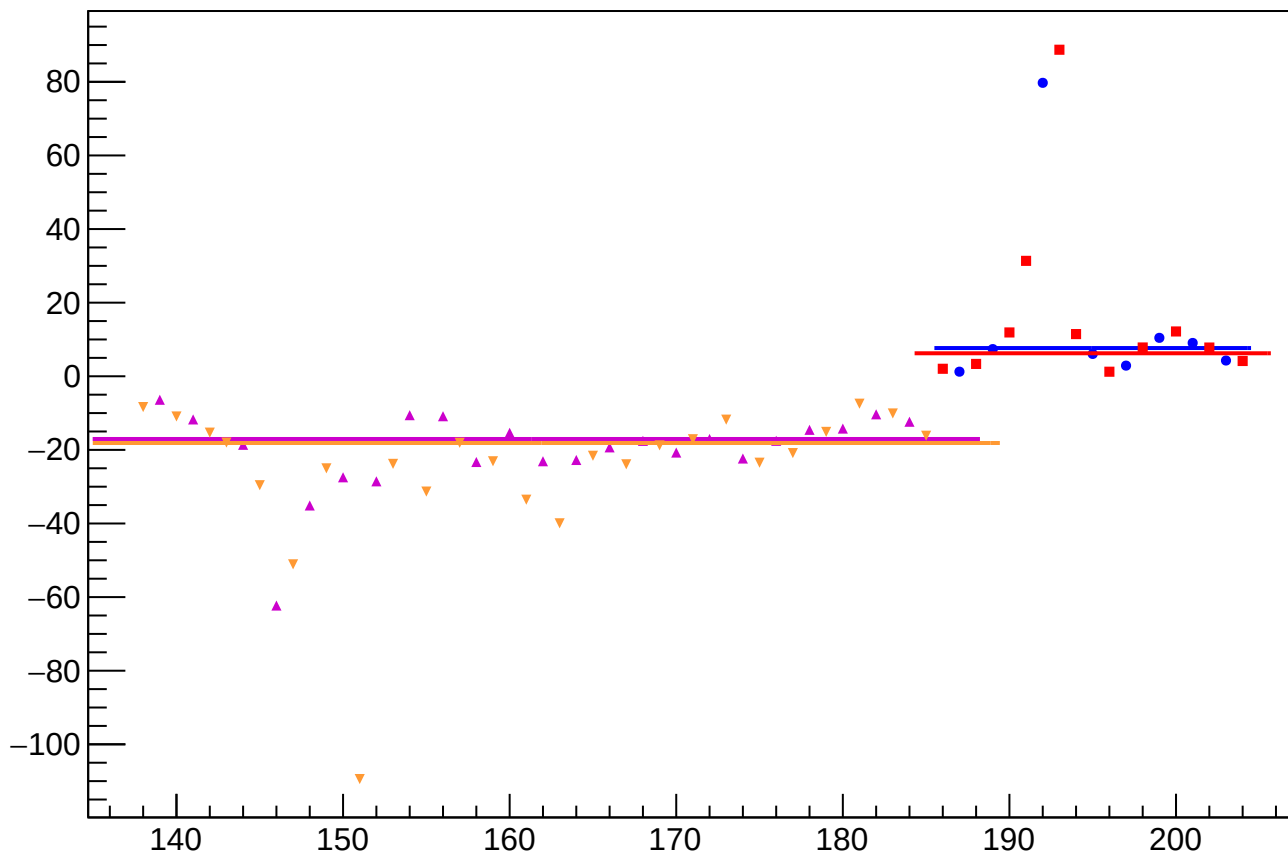
Right: 14.731 $\pm$ 0.017 χ^2 /NDF: 1209557.0/54

In: 0.144 $\pm$ 0.010 χ^2 /NDF: 1701972.7/47

Out: 0.753 $\pm$ 0.010 χ^2 /NDF: 2221434.9/54

All: 0.453 $\pm$ 0.007 χ^2 /NDF: 3925271.7/102

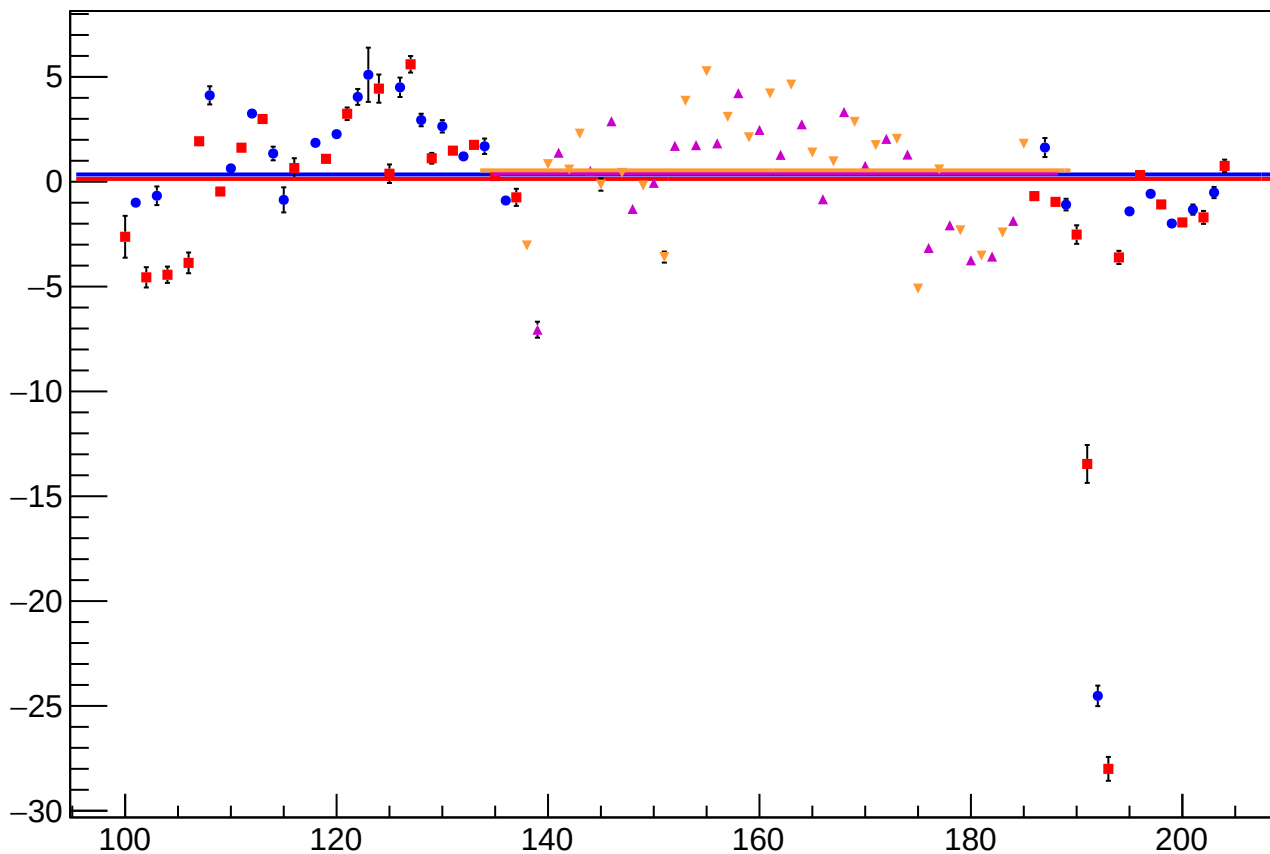
reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.670 ± 0.077 $\chi^2/\text{NDF}: 24805.5/7$
 Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$
 Right Out: 6.249 ± 0.065 $\chi^2/\text{NDF}: 25747.3/10$
 Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$
 Right: 6.841 ± 0.050 $\chi^2/\text{NDF}: 50752.9/18$
 In: -12.142 ± 0.034 $\chi^2/\text{NDF}: 152051.8/30$
 Out: -11.669 ± 0.033 $\chi^2/\text{NDF}: 218272.8/35$
 All: -11.900 ± 0.024 $\chi^2/\text{NDF}: 370422.6/66$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.347 ± 0.051 $\chi^2/\text{NDF}: 3812.5/24$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.134 ± 0.047 $\chi^2/\text{NDF}: 4250.6/29$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

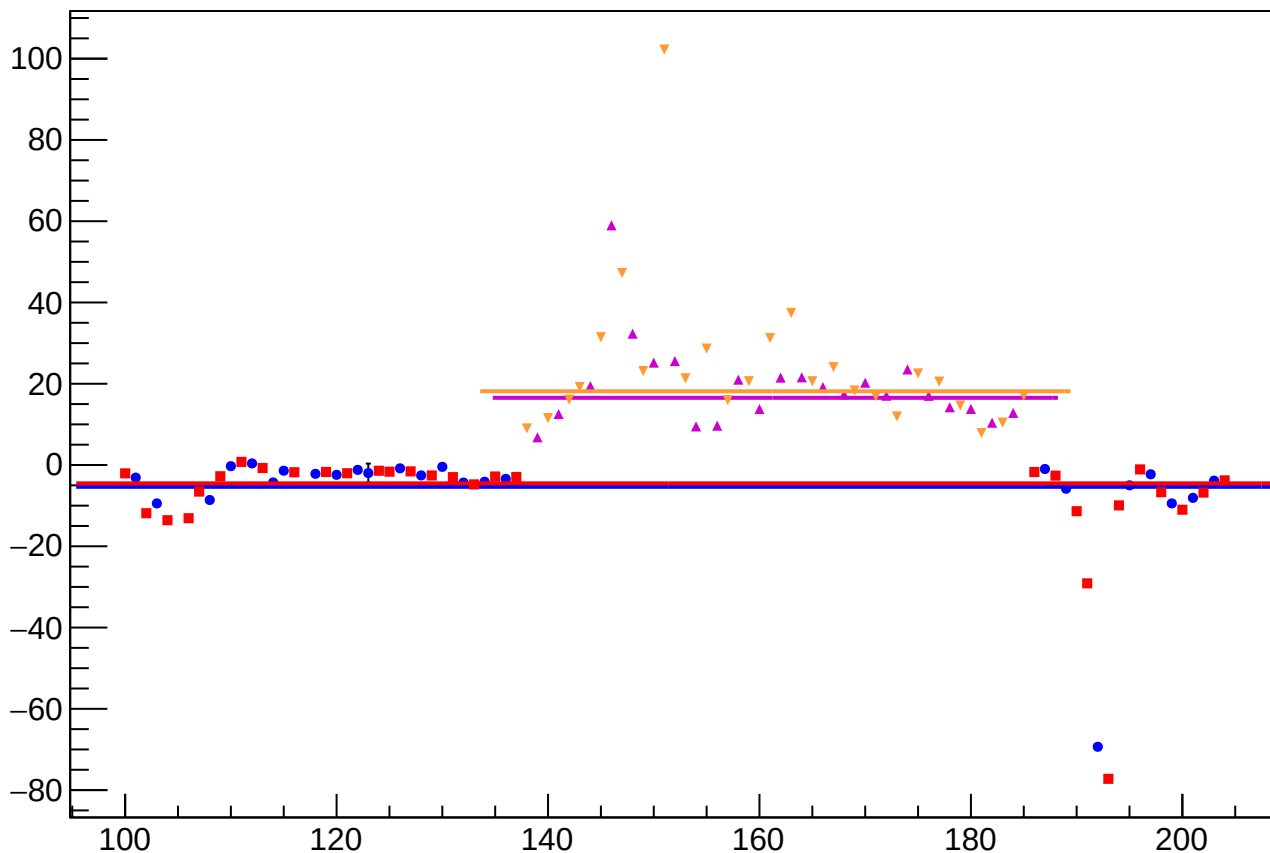
Right: 0.232 ± 0.034 $\chi^2/\text{NDF}: 8072.6/54$

In: 0.384 ± 0.026 $\chi^2/\text{NDF}: 10048.8/47$

Out: 0.411 ± 0.027 $\chi^2/\text{NDF}: 11387.3/54$

All: 0.397 ± 0.019 $\chi^2/\text{NDF}: 21436.6/102$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.362 ± 0.057 $\chi^2/\text{NDF}: 26620.4/24$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.508 ± 0.048 $\chi^2/\text{NDF}: 27651.1/29$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

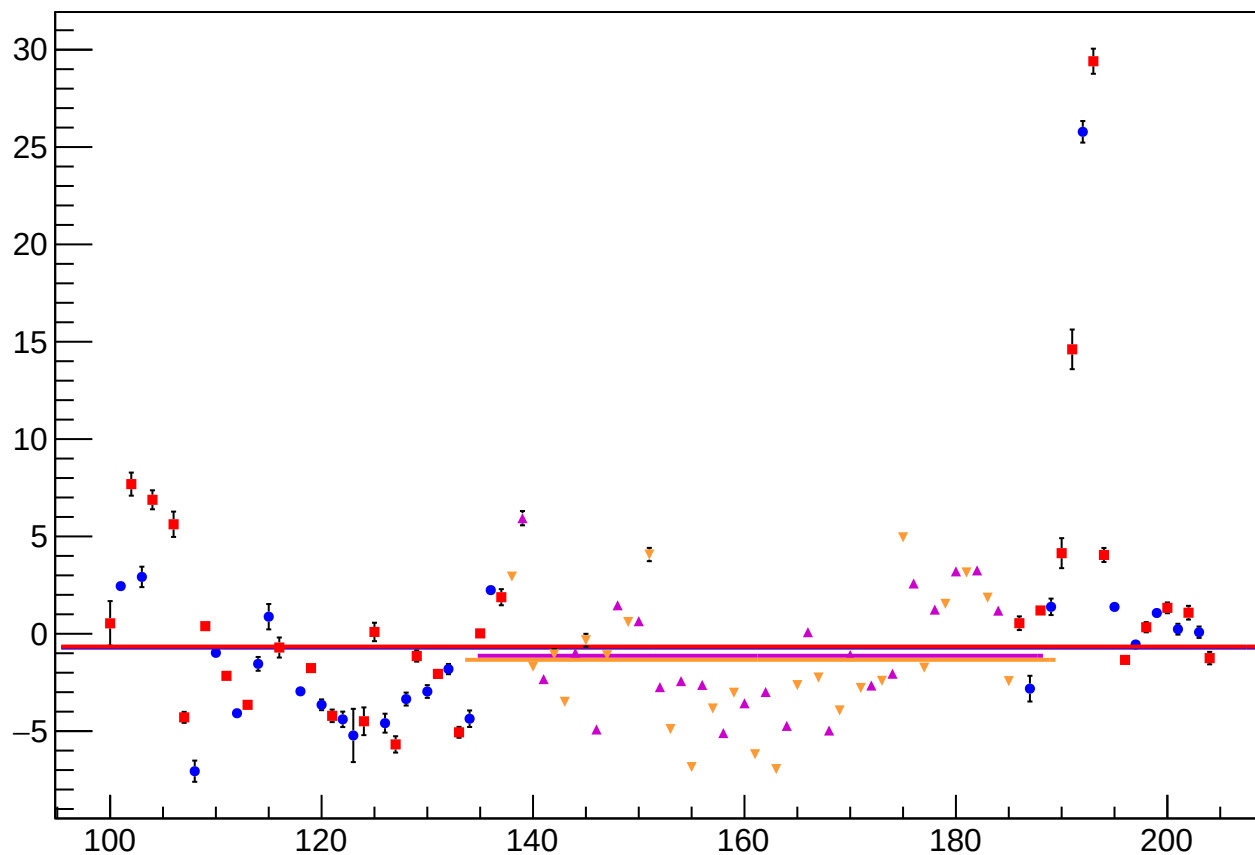
Right: -4.862 ± 0.037 $\chi^2/\text{NDF}: 54401.5/54$

In: 9.908 ± 0.032 $\chi^2/\text{NDF}: 169414.6/47$

Out: 9.167 ± 0.030 $\chi^2/\text{NDF}: 238663.5/54$

All: 9.524 ± 0.022 $\chi^2/\text{NDF}: 408364.3/102$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.710 ± 0.059 $\chi^2/\text{NDF}: 3897.5/24$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.658 ± 0.055 $\chi^2/\text{NDF}: 4469.9/29$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

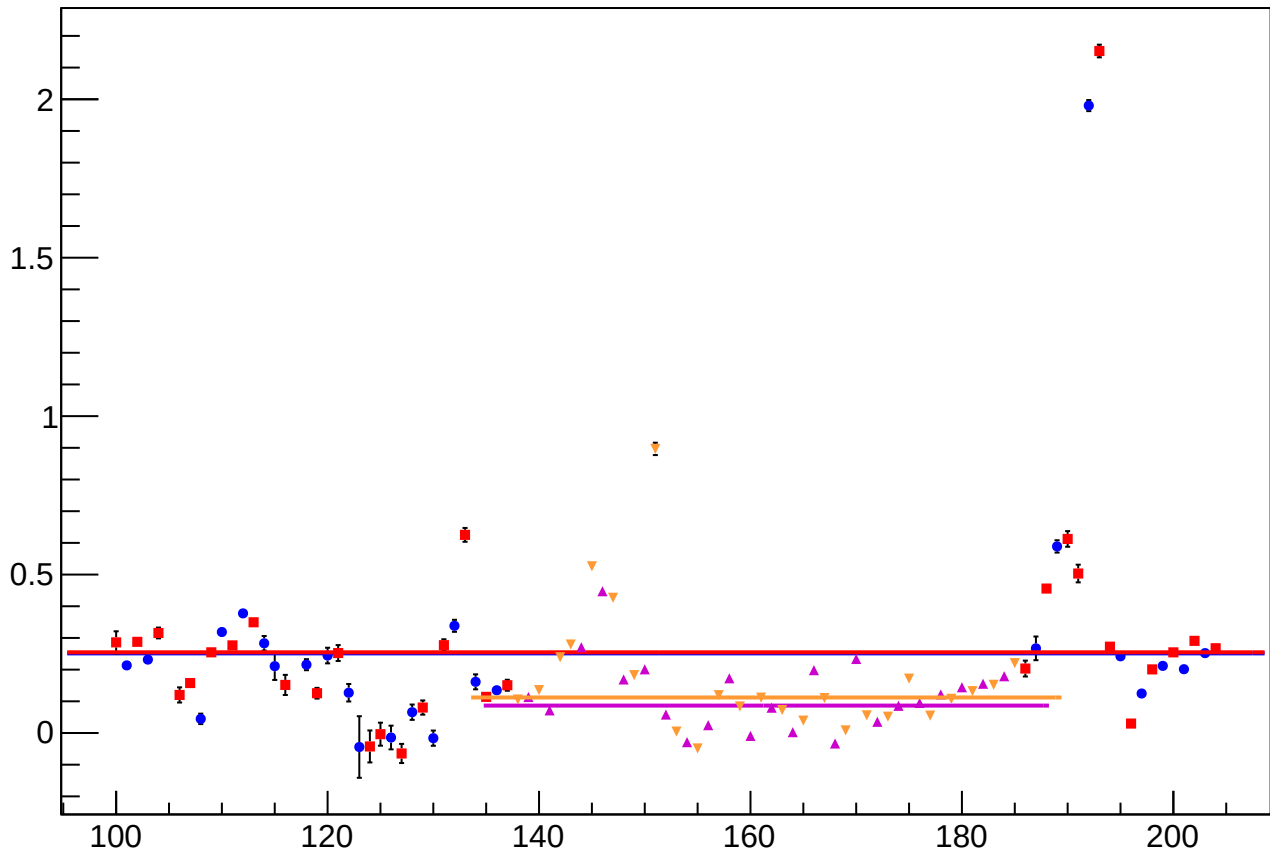
Right: -0.682 ± 0.040 $\chi^2/\text{NDF}: 8367.8/54$

In: -1.025 ± 0.030 $\chi^2/\text{NDF}: 10675.5/47$

Out: -1.134 ± 0.030 $\chi^2/\text{NDF}: 12520.2/54$

All: -1.078 ± 0.021 $\chi^2/\text{NDF}: 23202.5/102$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251 $\pm$ 0.003 χ^2 /NDF: 11170.3/24

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.255 $\pm$ 0.002 χ^2 /NDF: 11594.9/29

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

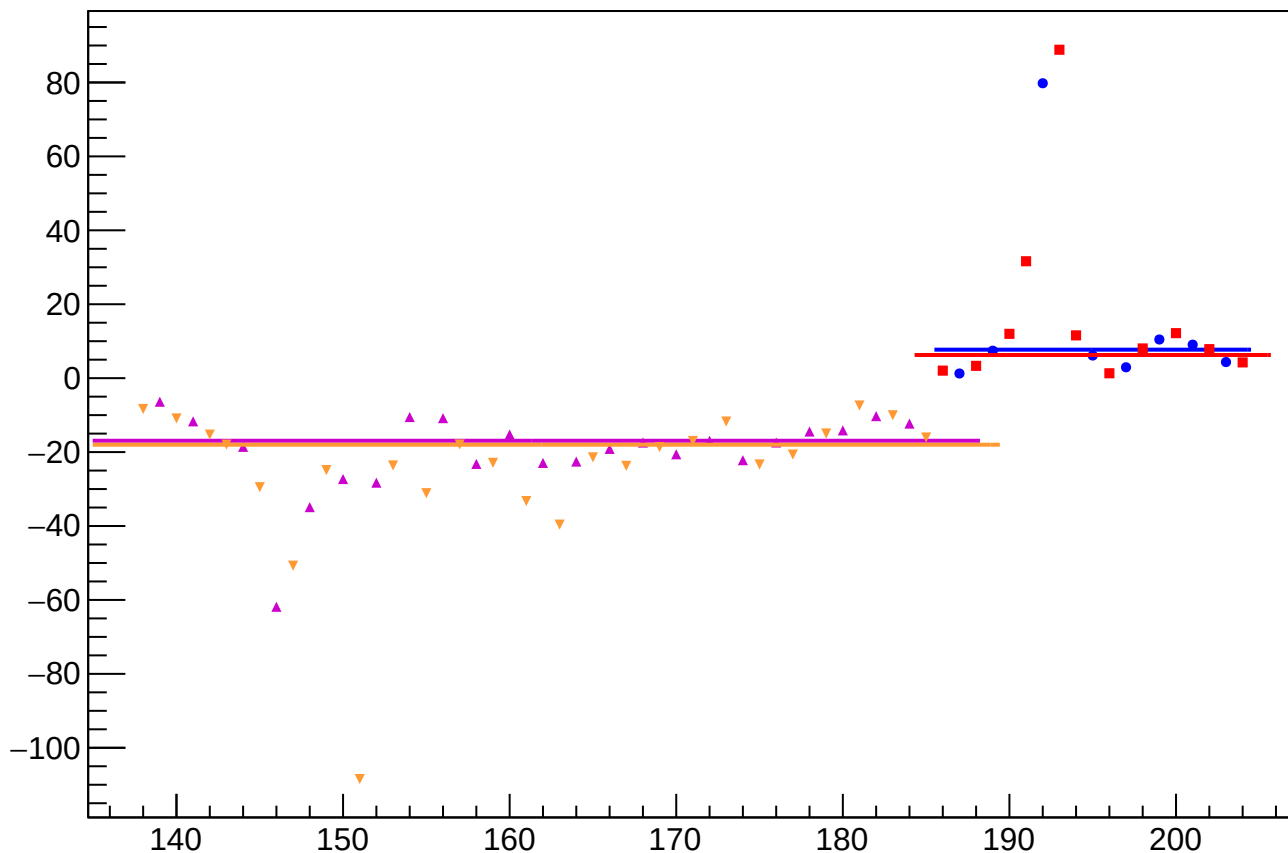
Right: 0.253 $\pm$ 0.002 χ^2 /NDF: 22766.0/54

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17787.1/47

Out: 0.154 $\pm$ 0.001 χ^2 /NDF:18405.1/54

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36394.0/102

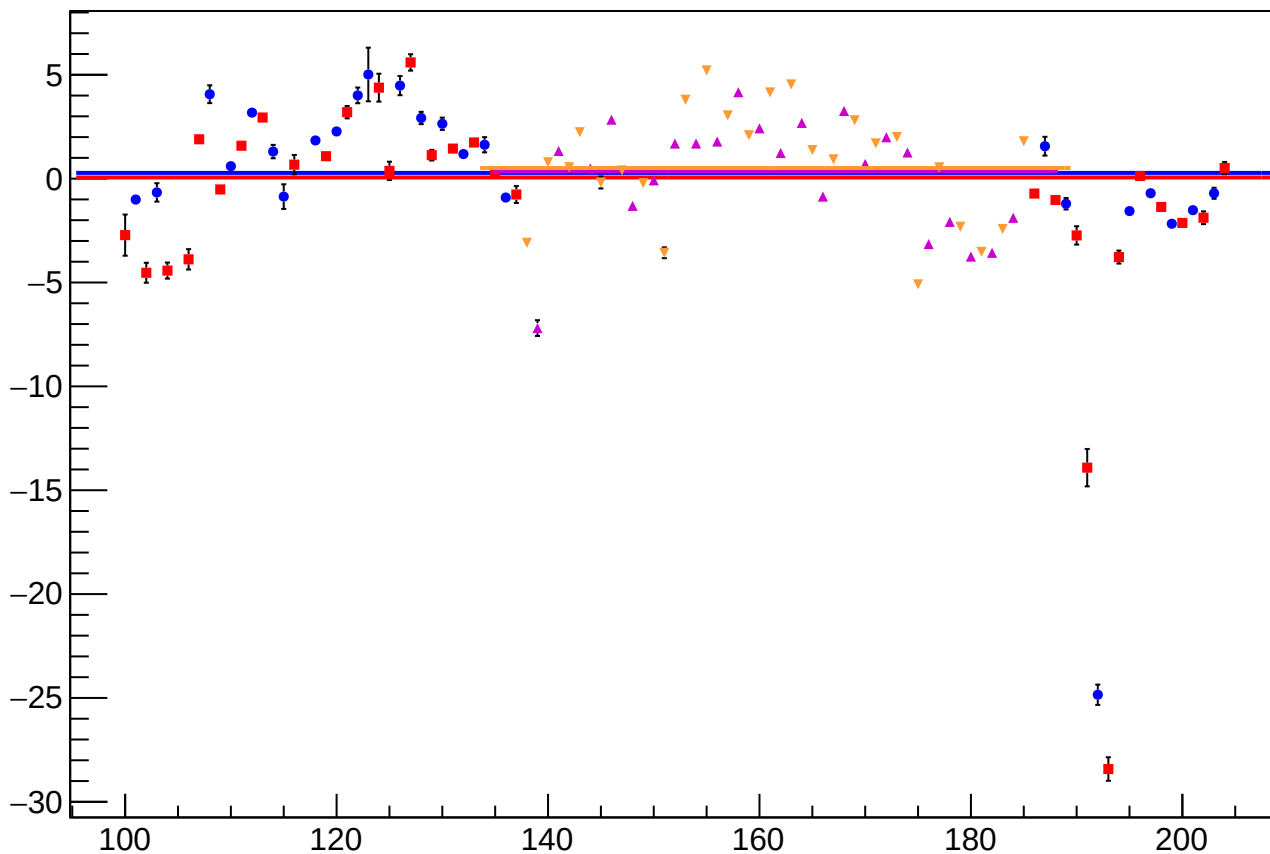
reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.710 ± 0.076 $\chi^2/\text{NDF}: 24985.0/7$
 Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$
 Right Out: 6.271 ± 0.064 $\chi^2/\text{NDF}: 26093.0/10$
 Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$
 Right: 6.868 ± 0.049 $\chi^2/\text{NDF}: 51285.9/18$
 In: -12.064 ± 0.034 $\chi^2/\text{NDF}: 152584.9/30$
 Out: -11.564 ± 0.033 $\chi^2/\text{NDF}: 219207.3/35$
 All: -11.808 ± 0.024 $\chi^2/\text{NDF}: 371903.6/66$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.277 $\pm$ 0.051 χ^2 /NDF: 3945.8/24

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.056 $\pm$ 0.047 χ^2 /NDF: 4414.2/29

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

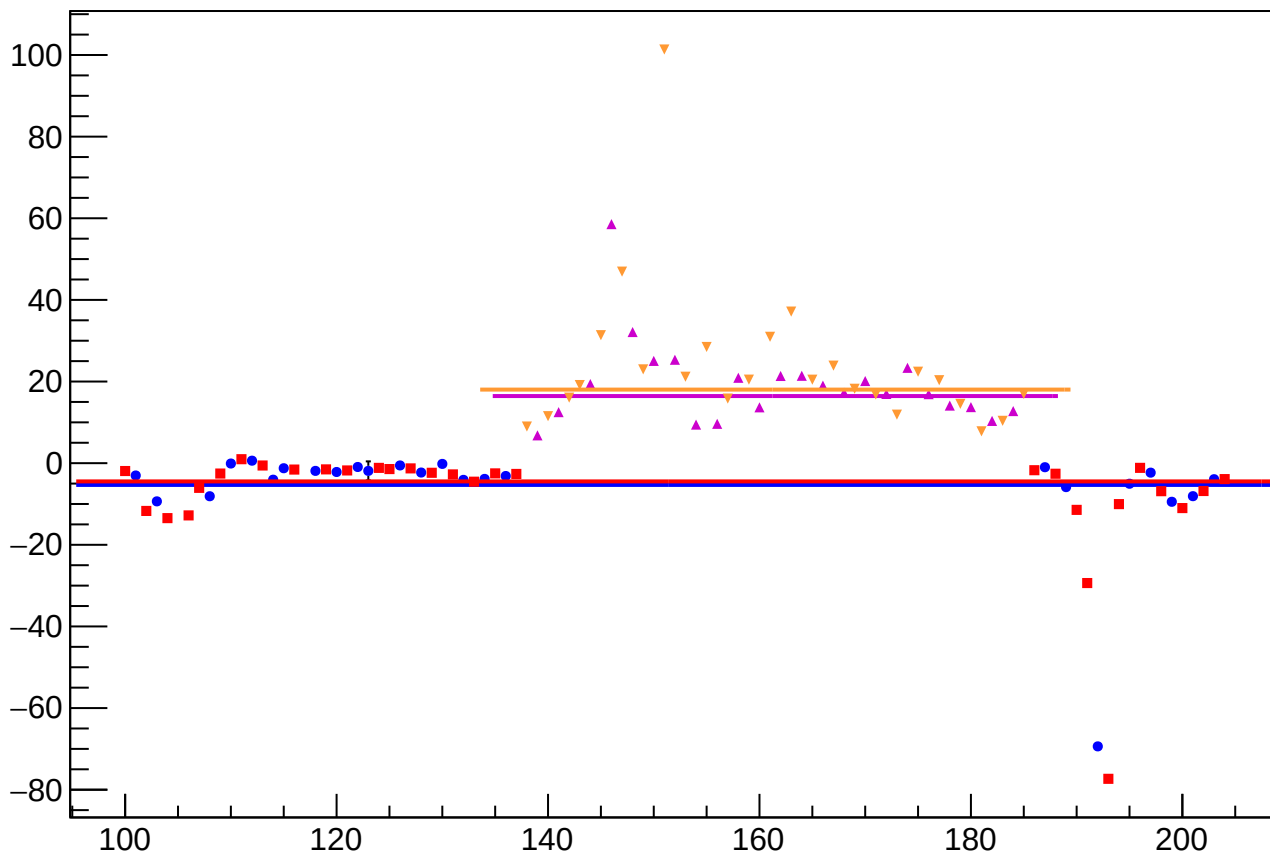
Right: 0.158 $\pm$ 0.034 χ^2 /NDF: 8370.3/54

In: 0.338 $\pm$ 0.026 χ^2 /NDF: 10168.9/47

Out: 0.365 $\pm$ 0.026 χ^2 /NDF: 11549.0/54

All: 0.351 $\pm$ 0.019 χ^2 /NDF: 21718.4/102

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.326+/-0.057 χ^2/NDF : 26943.4/24

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.466+/-0.048 χ^2/NDF : 28117.6/29

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

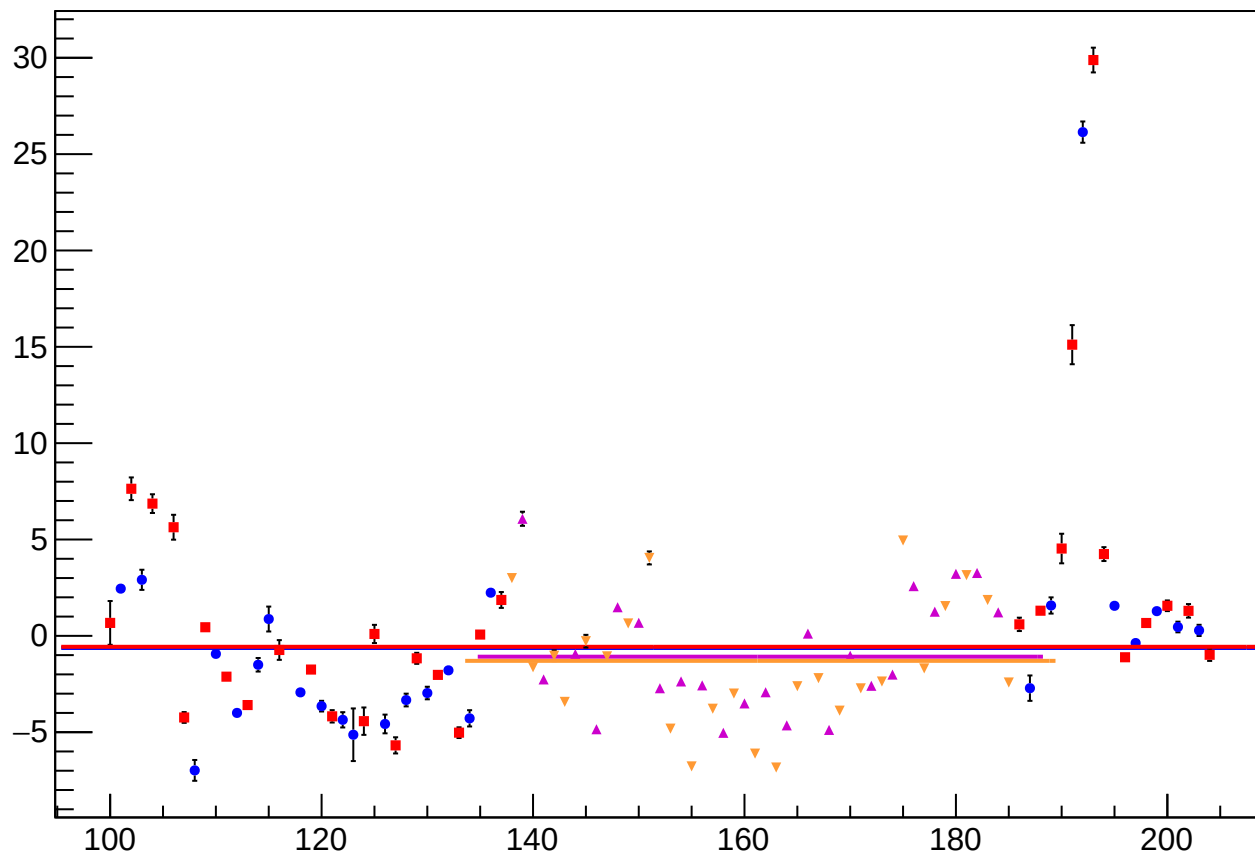
Right: -4.822+/-0.037 χ^2/NDF : 55194.4/54

In: 9.865+/-0.031 χ^2/NDF : 169493.3/47

Out: 9.103+/-0.030 χ^2/NDF : 239030.7/54

All: 9.469+/-0.022 χ^2/NDF : 408831.4/102

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.629 ± 0.059 $\chi^2/\text{NDF}: 4006.1/24$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.568 ± 0.055 $\chi^2/\text{NDF}: 4622.4/29$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

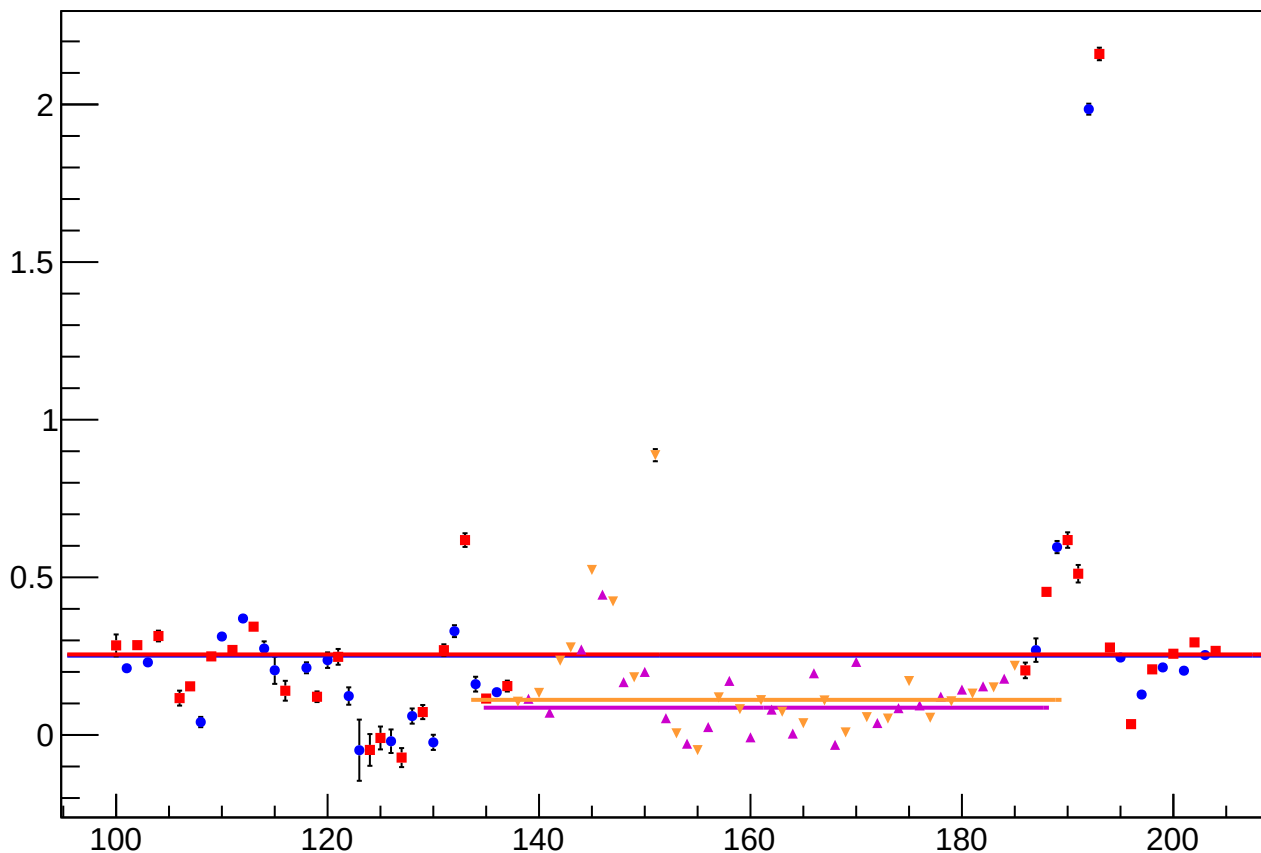
Right: -0.596 ± 0.040 $\chi^2/\text{NDF}: 8629.0/54$

In: -0.969 ± 0.029 $\chi^2/\text{NDF}: 10774.6/47$

Out: -1.079 ± 0.030 $\chi^2/\text{NDF}: 12672.7/54$

All: -1.023 ± 0.021 $\chi^2/\text{NDF}: 23454.2/102$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.252 $\pm$ 0.003 χ^2 /NDF: 11297.5/24

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.255 $\pm$ 0.002 χ^2 /NDF: 11731.4/29

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

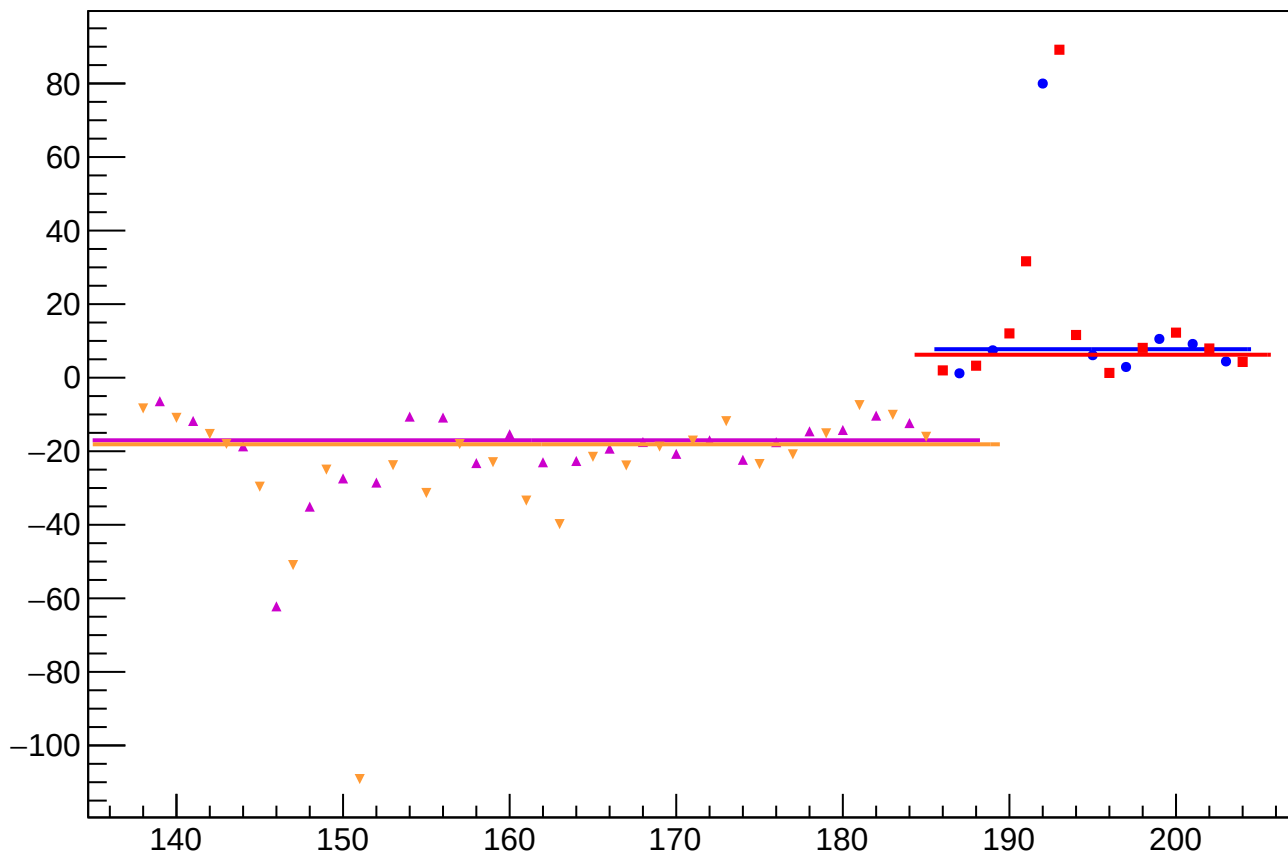
Right: 0.254 $\pm$ 0.002 χ^2 /NDF: 23030.0/54

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17929.1/47

Out: 0.153 $\pm$ 0.001 χ^2 /NDF:18607.9/54

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36735.5/102

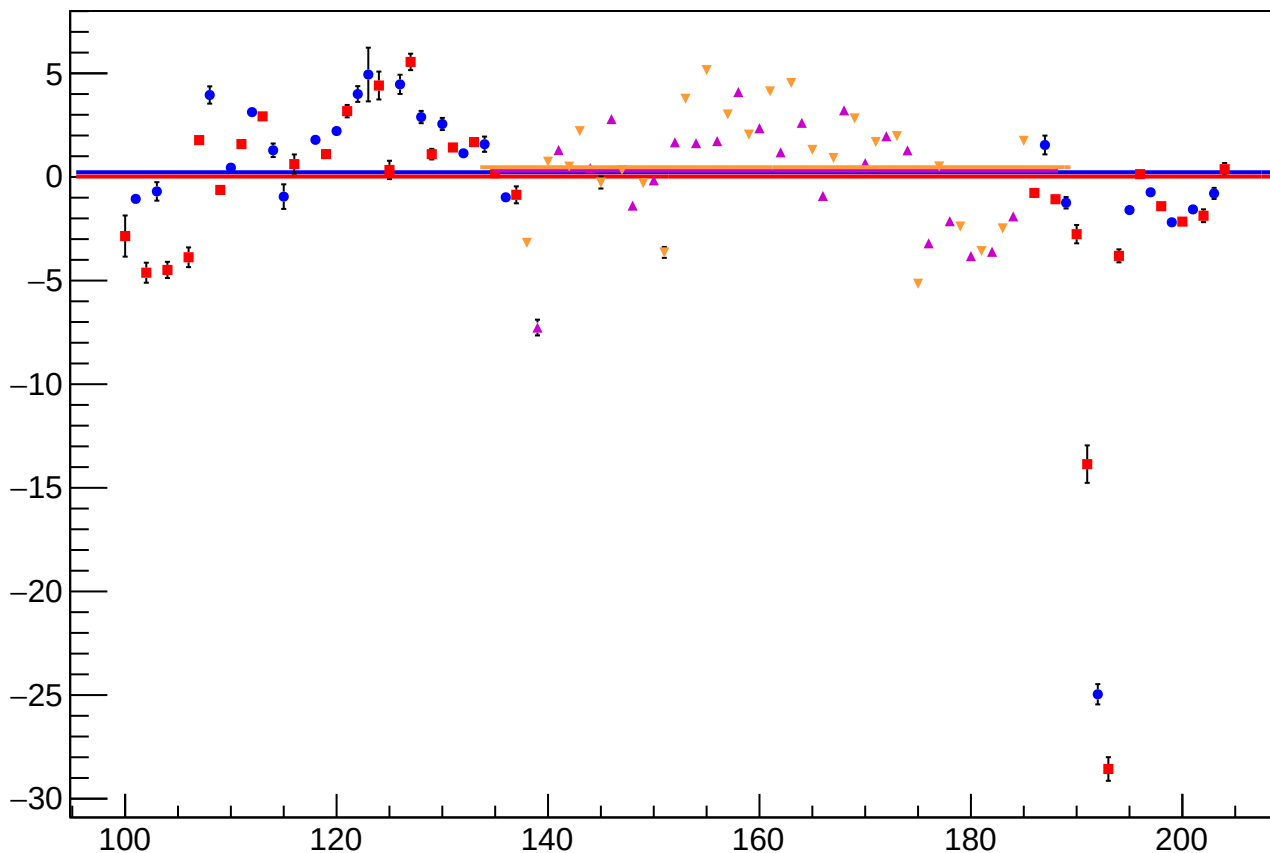
reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.746 ± 0.077 $\chi^2/\text{NDF}: 24969.2/7$
 Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$
 Right Out: 6.244 ± 0.064 $\chi^2/\text{NDF}: 26129.2/10$
 Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$
 Right: 6.864 ± 0.049 $\chi^2/\text{NDF}: 51322.4/18$
 In: -12.154 ± 0.034 $\chi^2/\text{NDF}: 152423.7/30$
 Out: -11.634 ± 0.033 $\chi^2/\text{NDF}: 219432.2/35$
 All: -11.888 ± 0.024 $\chi^2/\text{NDF}: 371975.0/66$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.227 $\pm$ 0.051 χ^2 /NDF: 3931.2/24

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF:7093.0/24

Right Out: 0.019 $\pm$ 0.047 χ^2 /NDF: 4406.9/29

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

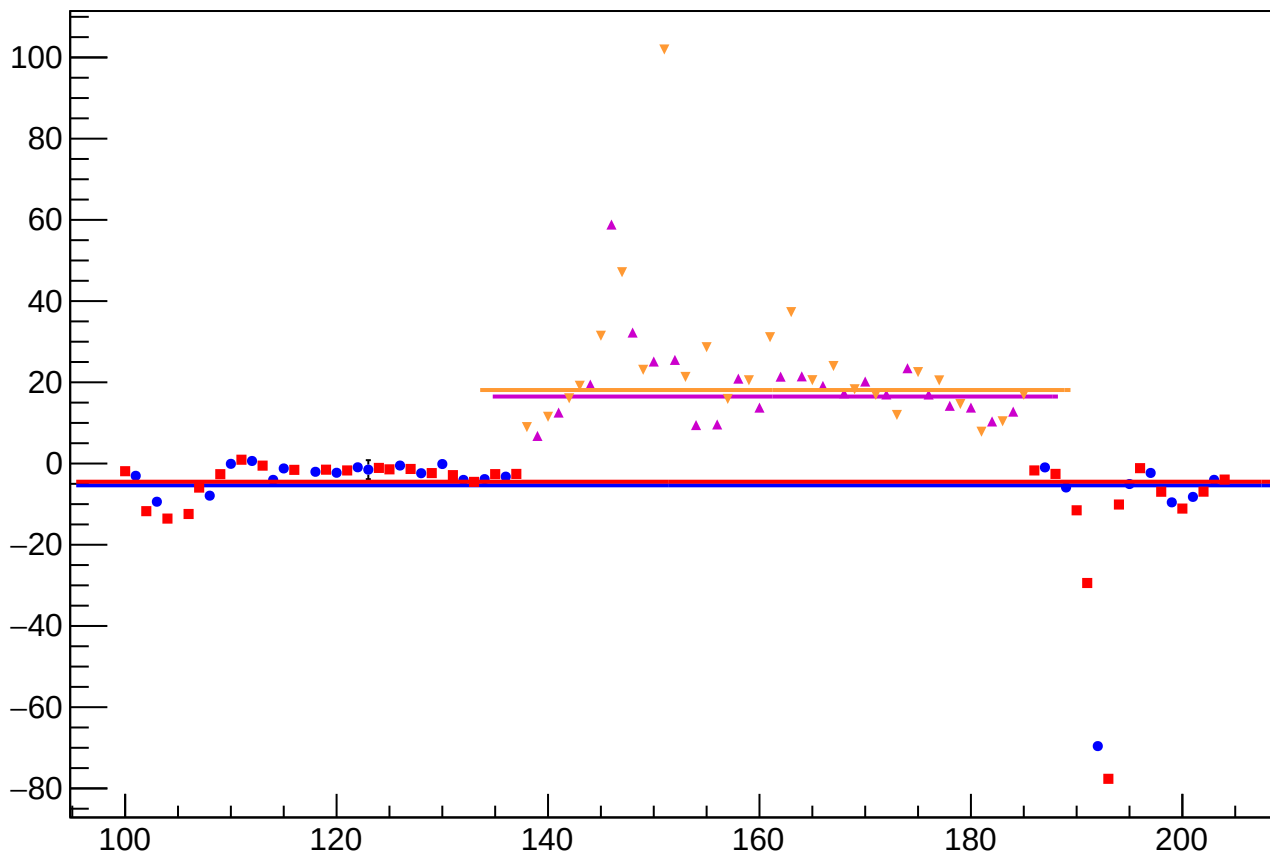
Right: 0.114 $\pm$ 0.034 χ^2 /NDF: 8347.1/54

In: 0.288 $\pm$ 0.026 χ^2 /NDF:10116.3/47

Out: 0.324 $\pm$ 0.027 χ^2 /NDF:11562.6/54

All: 0.306 $\pm$ 0.019 χ^2 /NDF: 21679.8/102

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.368 ± 0.057 $\chi^2/\text{NDF}: 26940.2/24$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -4.476 ± 0.048 $\chi^2/\text{NDF}: 28134.9/29$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

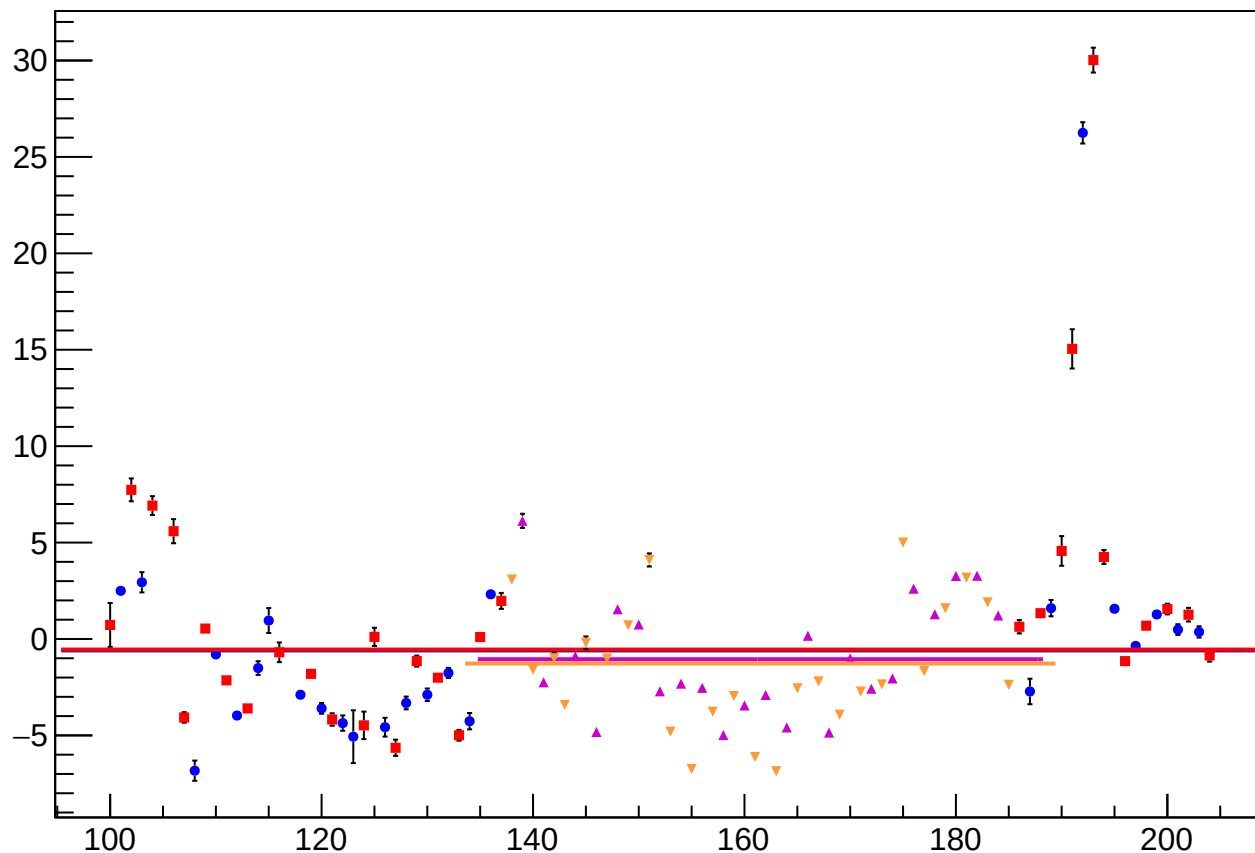
Right: -4.843 ± 0.037 $\chi^2/\text{NDF}: 55217.2/54$

In: 9.914 ± 0.031 $\chi^2/\text{NDF}: 169300.3/47$

Out: 9.128 ± 0.030 $\chi^2/\text{NDF}: 239246.5/54$

All: 9.505 ± 0.022 $\chi^2/\text{NDF}: 408871.0/102$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

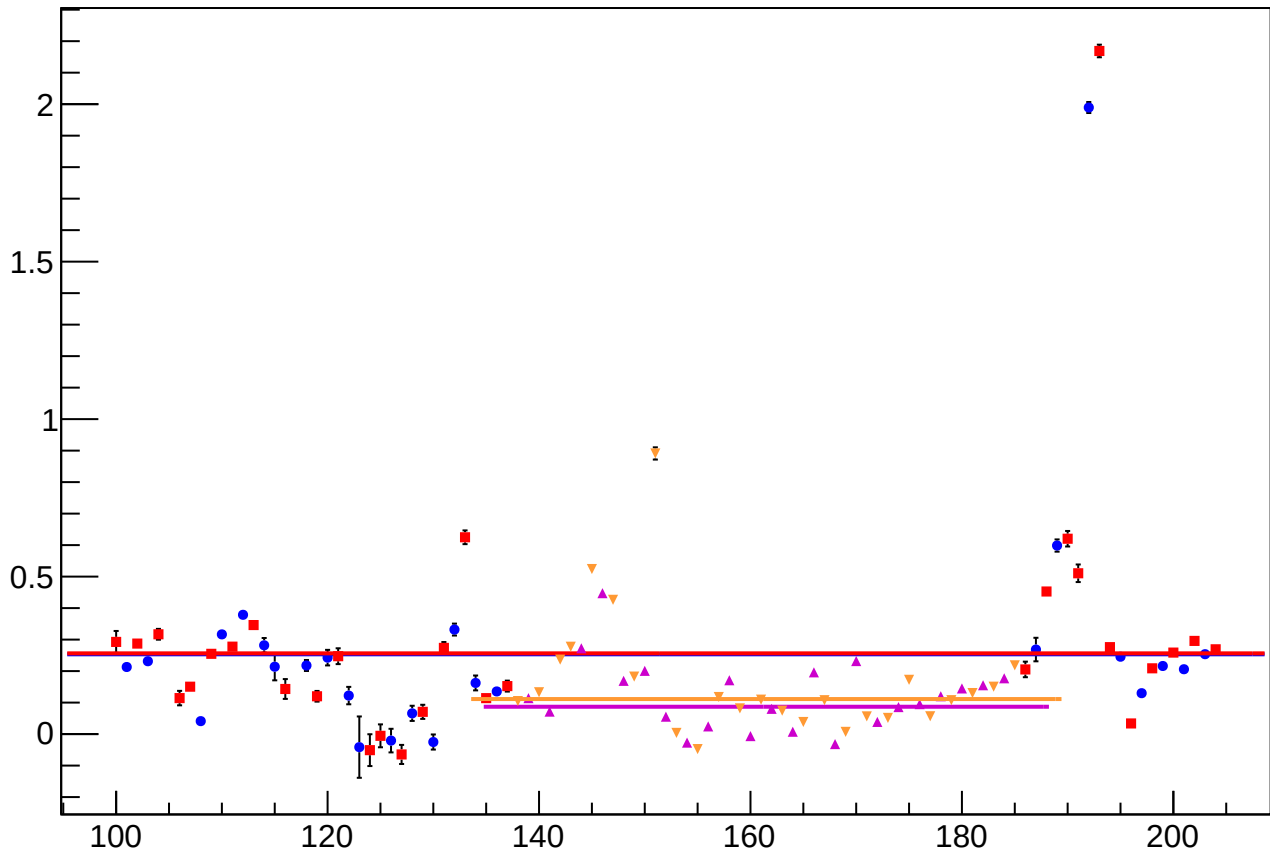


Right In: -0.591 ± 0.059 $\chi^2/\text{NDF}: 3996.0/24$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.549 ± 0.055 $\chi^2/\text{NDF}: 4619.0/29$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.568 ± 0.040 $\chi^2/\text{NDF}: 8615.2/54$
 In: -0.936 ± 0.030 $\chi^2/\text{NDF}: 10714.5/47$
 Out: -1.056 ± 0.030 $\chi^2/\text{NDF}: 12693.0/54$

All: -0.995 ± 0.021 $\chi^2/\text{NDF}: 23415.6/102$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.253 $\pm$ 0.003 χ^2 /NDF: 11288.3/24

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.256 $\pm$ 0.002 χ^2 /NDF: 11748.1/29

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

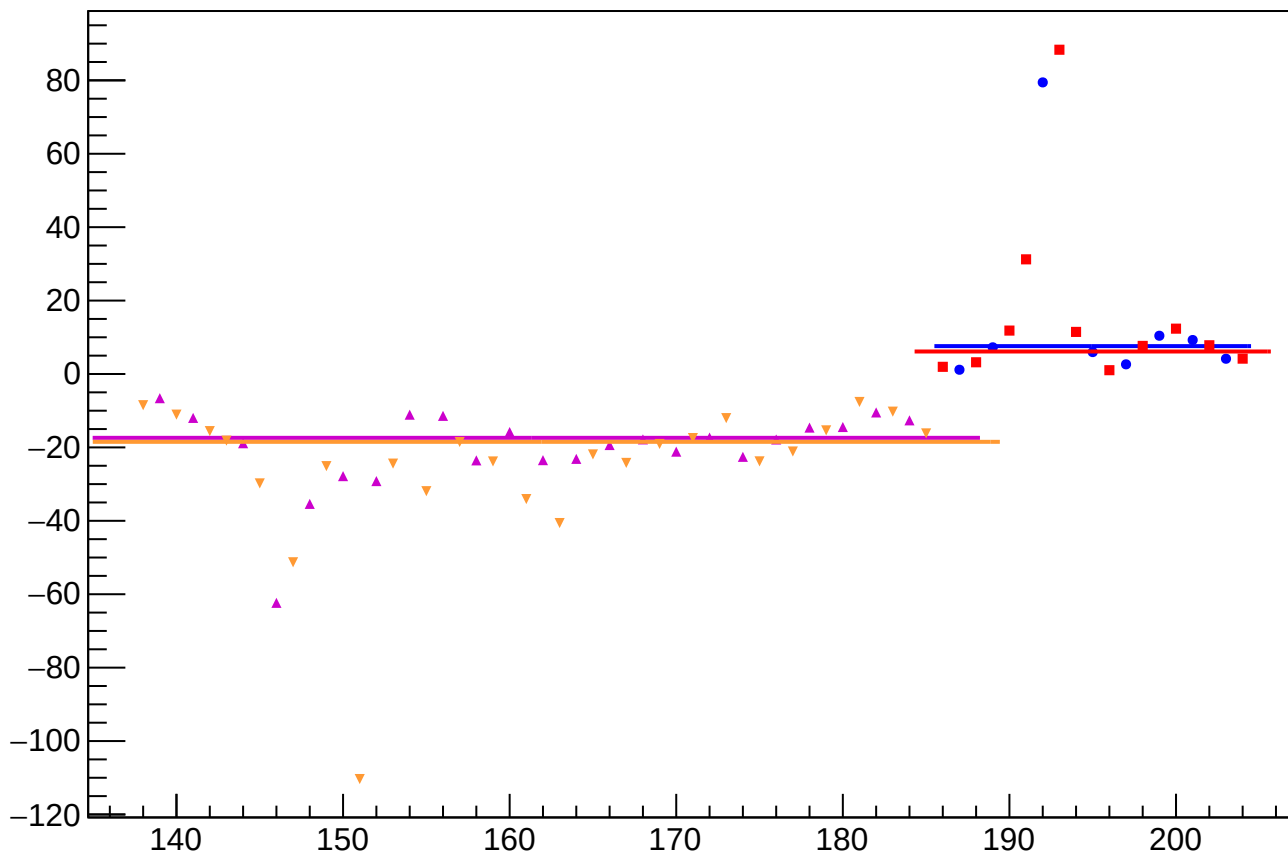
Right: 0.255 $\pm$ 0.002 χ^2 /NDF: 23037.1/54

In: 0.128 $\pm$ 0.001 χ^2 /NDF:17908.2/47

Out: 0.153 $\pm$ 0.001 χ^2 /NDF:18618.5/54

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36718.0/102

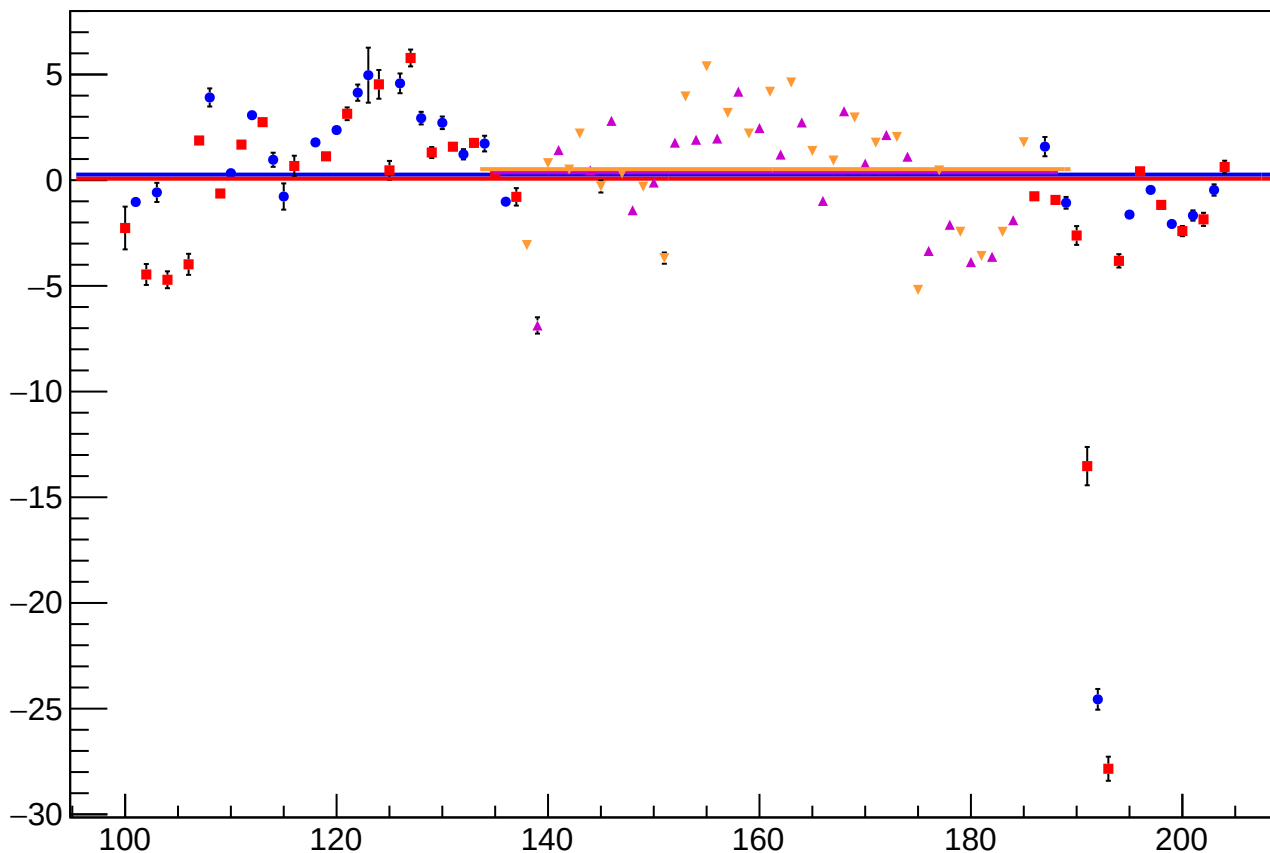
reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.594 $\pm$ 0.077 χ^2 /NDF: 24654.9/7
 Left Out: -18.479 $\pm$ 0.040 χ^2 /NDF: 87883.4/24
 Right Out: 6.130 $\pm$ 0.065 χ^2 /NDF: 25660.4/10
 Left In: -17.393 $\pm$ 0.039 χ^2 /NDF: 43178.9/22

Left: -17.926 $\pm$ 0.028 χ^2 /NDF: 131443.9/47
 Right: 6.733 $\pm$ 0.050 χ^2 /NDF: 50526.1/18
 In: -12.333 $\pm$ 0.035 χ^2 /NDF: 151136.0/30
 Out: -11.747 $\pm$ 0.034 χ^2 /NDF: 218655.6/35
 All: -12.032 $\pm$ 0.024 χ^2 /NDF: 369937.2/66

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.264 $\pm$ 0.051 χ^2 /NDF: 3800.9/24

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.070 $\pm$ 0.048 χ^2 /NDF: 4246.8/29

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

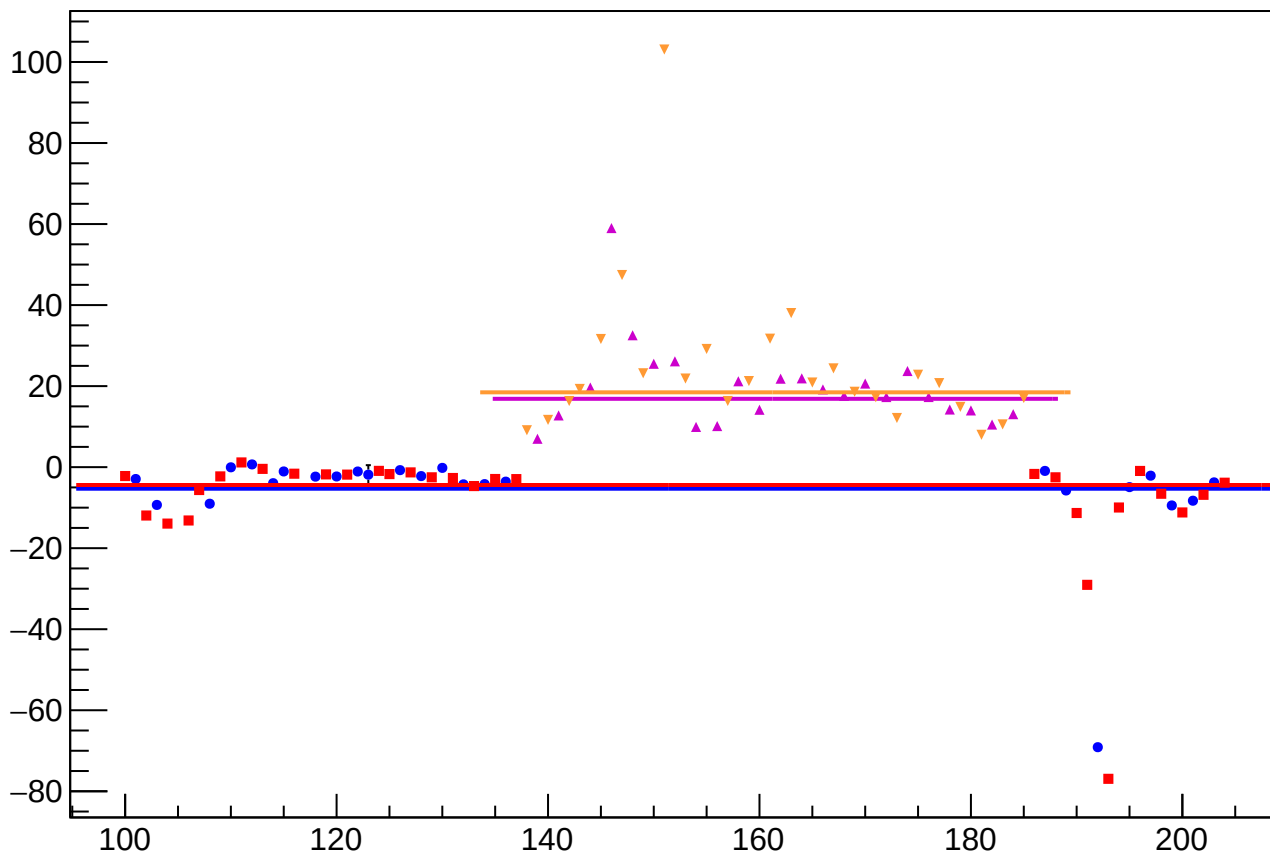
Right: 0.159 $\pm$ 0.035 χ^2 /NDF: 8055.4/54

In: 0.342 $\pm$ 0.027 χ^2 /NDF:10021.5/47

Out: 0.375 $\pm$ 0.027 χ^2 /NDF:11362.8/54

All: 0.358 $\pm$ 0.019 χ^2 /NDF: 21385.0/102

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.321+/-0.058 χ^2/NDF : 26494.5/24

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.408+/-0.048 χ^2/NDF : 27639.2/29

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

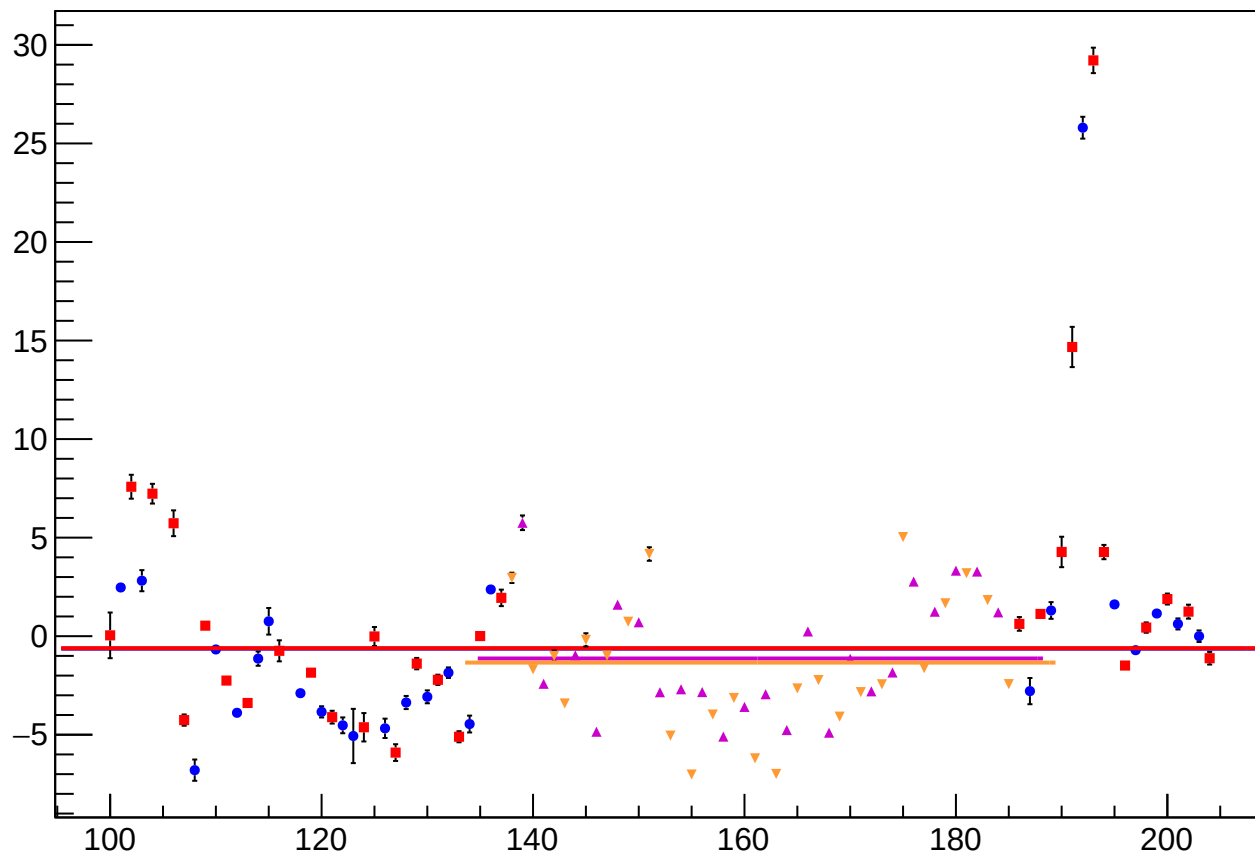
Right: -4.783+/-0.037 χ^2/NDF : 54280.3/54

In: 10.044+/-0.032 χ^2/NDF : 168063.0/47

Out: 9.210+/-0.031 χ^2/NDF : 237979.3/54

All: 9.609+/-0.022 χ^2/NDF : 406393.8/102

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

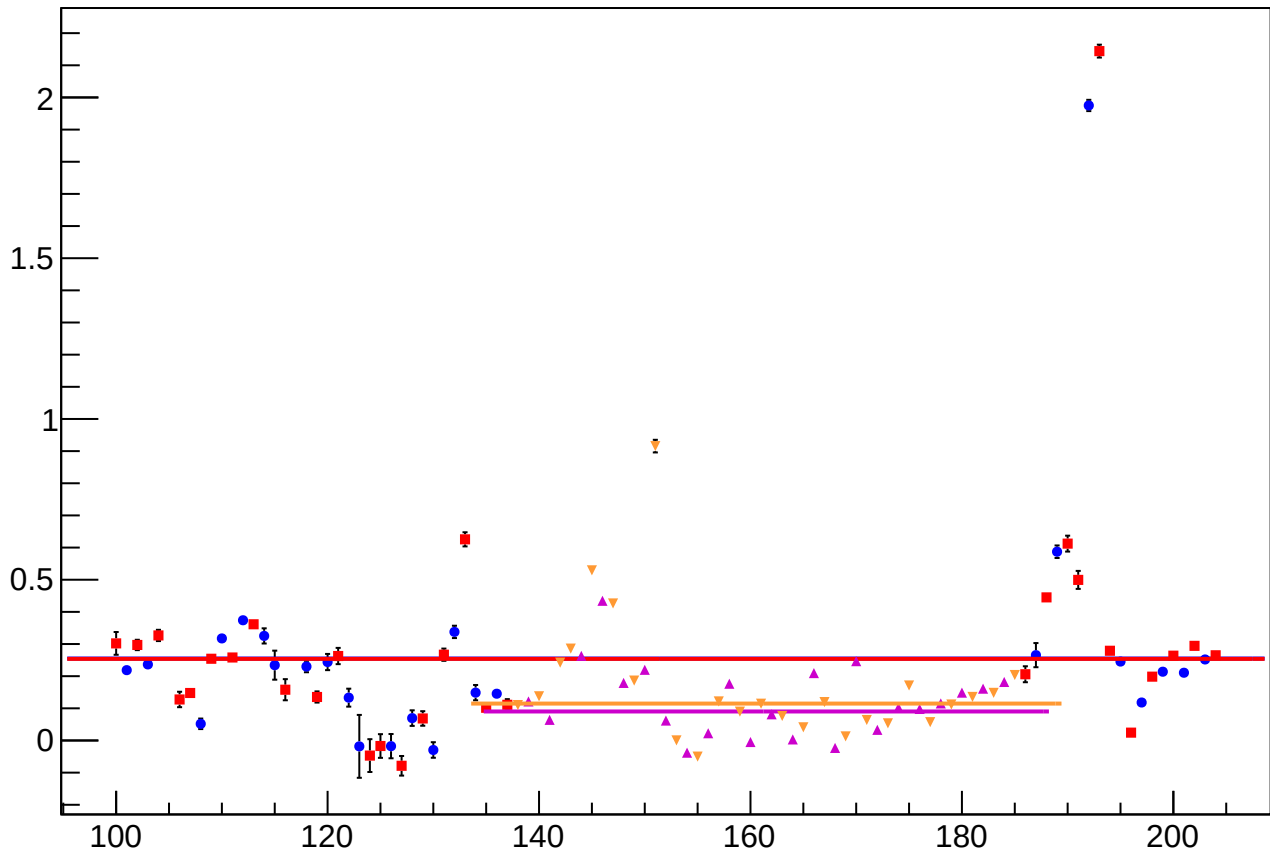


Right In: -0.632 ± 0.060 χ^2/NDF : 3882.1/24
 Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24
 Right Out: -0.610 ± 0.056 χ^2/NDF : 4464.0/29
 Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47
 Right: -0.620 ± 0.041 χ^2/NDF : 8346.2/54
 In: -1.006 ± 0.030 χ^2/NDF : 10642.5/47
 Out: -1.119 ± 0.031 χ^2/NDF : 12491.7/54

All: -1.062 ± 0.021 χ^2/NDF : 23141.2/102

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.255 ± 0.003 $\chi^2/\text{NDF}: 11027.8/24$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.254 ± 0.003 $\chi^2/\text{NDF}: 11600.5/29$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

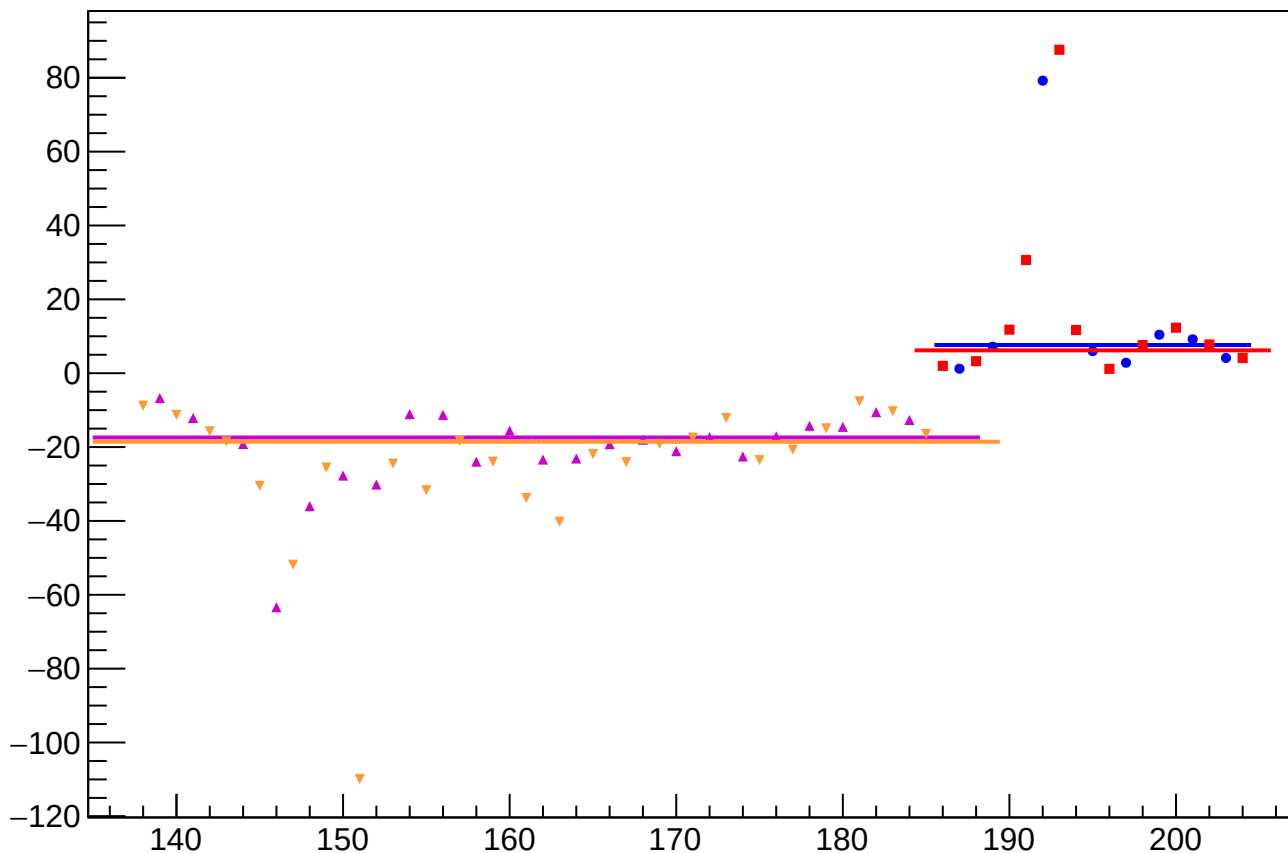
Right: 0.254 ± 0.002 $\chi^2/\text{NDF}: 22628.4/54$

In: 0.131 ± 0.001 $\chi^2/\text{NDF}: 17577.2/47$

Out: 0.156 ± 0.001 $\chi^2/\text{NDF}: 18168.9/54$

All: 0.143 ± 0.001 $\chi^2/\text{NDF}: 35910.1/102$

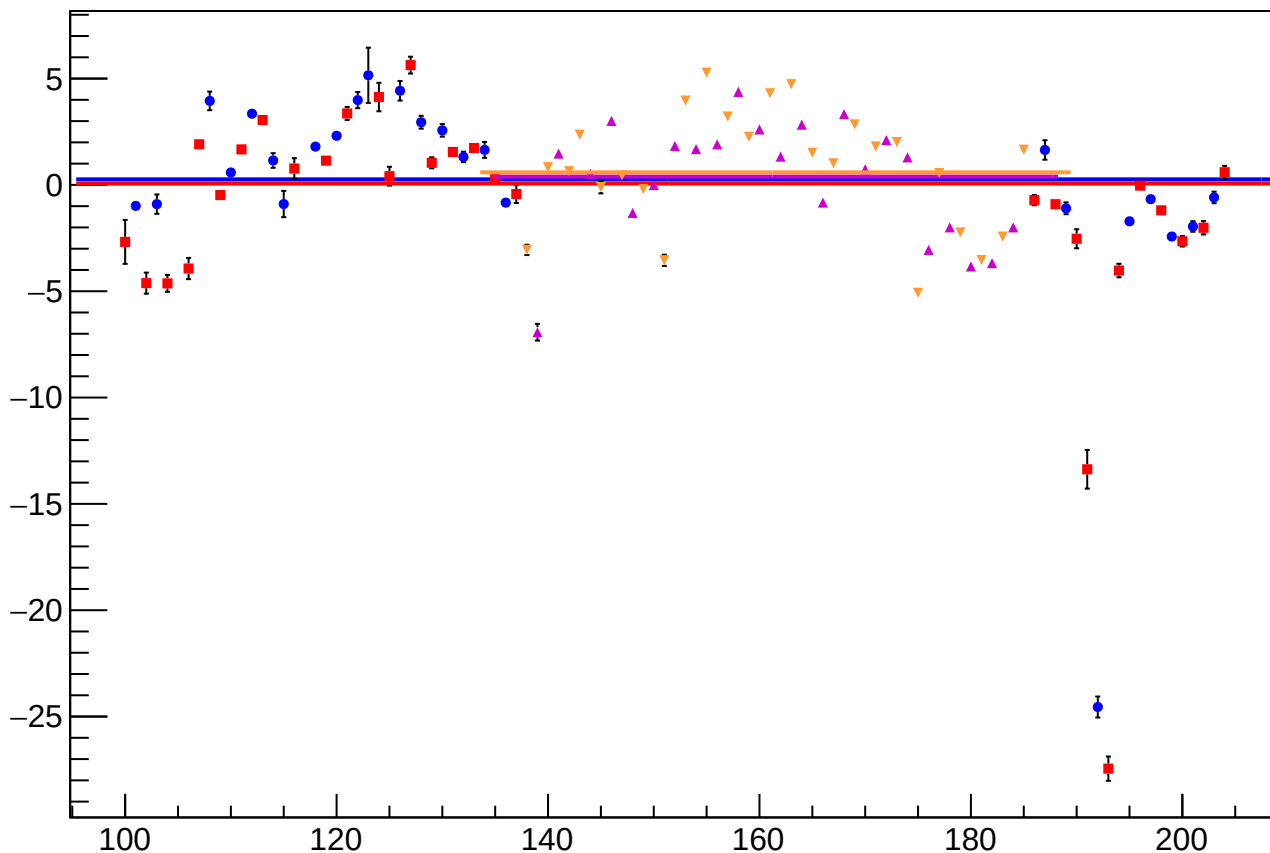
reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.637 ± 0.078 $\chi^2/\text{NDF}: 24168.2/7$
 Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$
 Right Out: 6.188 ± 0.066 $\chi^2/\text{NDF}: 25004.5/10$
 Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$
 Right: 6.786 ± 0.050 $\chi^2/\text{NDF}: 49374.7/18$
 In: -12.361 ± 0.035 $\chi^2/\text{NDF}: 149627.5/30$
 Out: -11.820 ± 0.034 $\chi^2/\text{NDF}: 215261.7/35$
 All: -12.083 ± 0.025 $\chi^2/\text{NDF}: 365011.0/66$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.052 χ^2 /NDF: 3846.4/24

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.064 $\pm$ 0.048 χ^2 /NDF: 4204.5/29

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

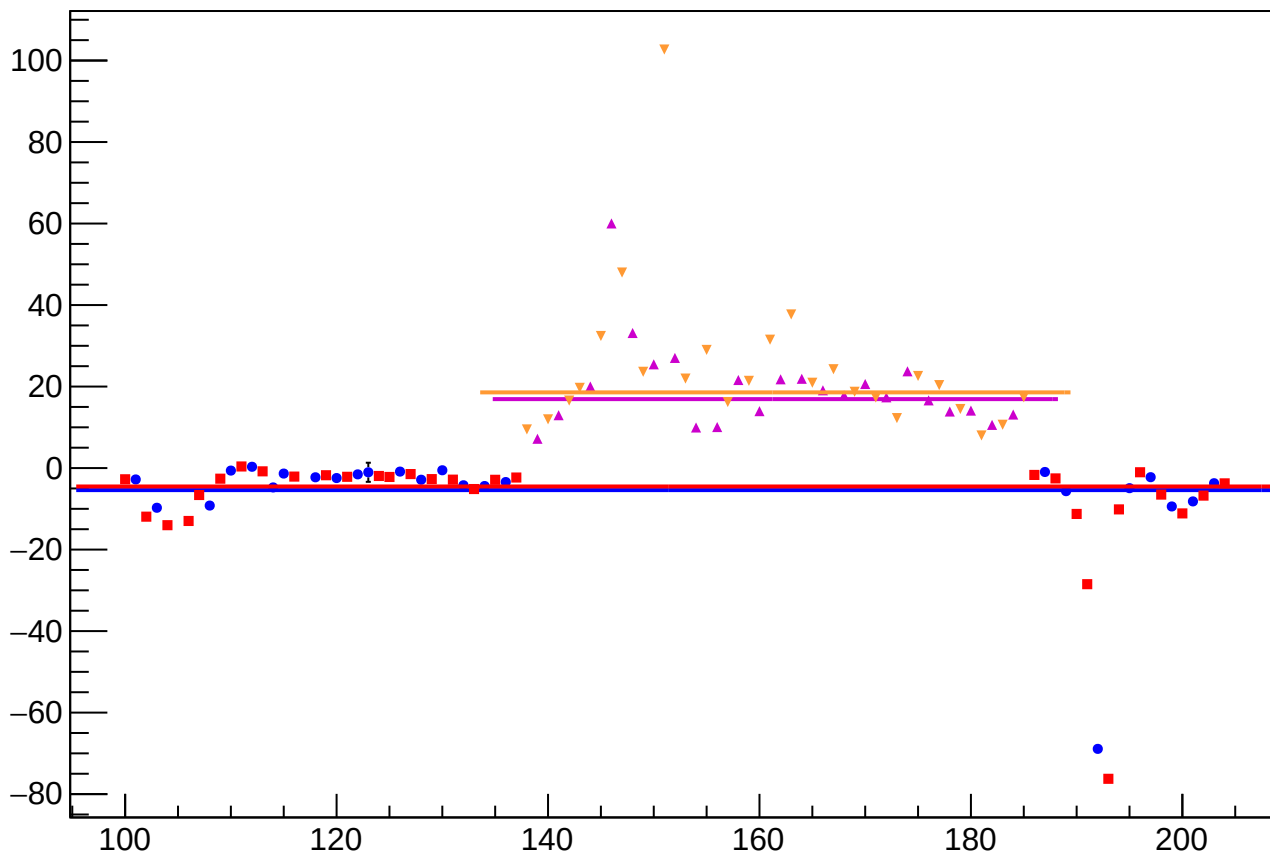
Right: 0.155 $\pm$ 0.035 χ^2 /NDF: 8058.6/54

In: 0.358 $\pm$ 0.027 χ^2 /NDF: 9910.9/47

Out: 0.420 $\pm$ 0.027 χ^2 /NDF: 11082.0/54

All: 0.389 $\pm$ 0.019 χ^2 /NDF: 20995.5/102

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.407 ± 0.059 $\chi^2/\text{NDF}: 25799.6/24$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.516 ± 0.049 $\chi^2/\text{NDF}: 26744.8/29$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

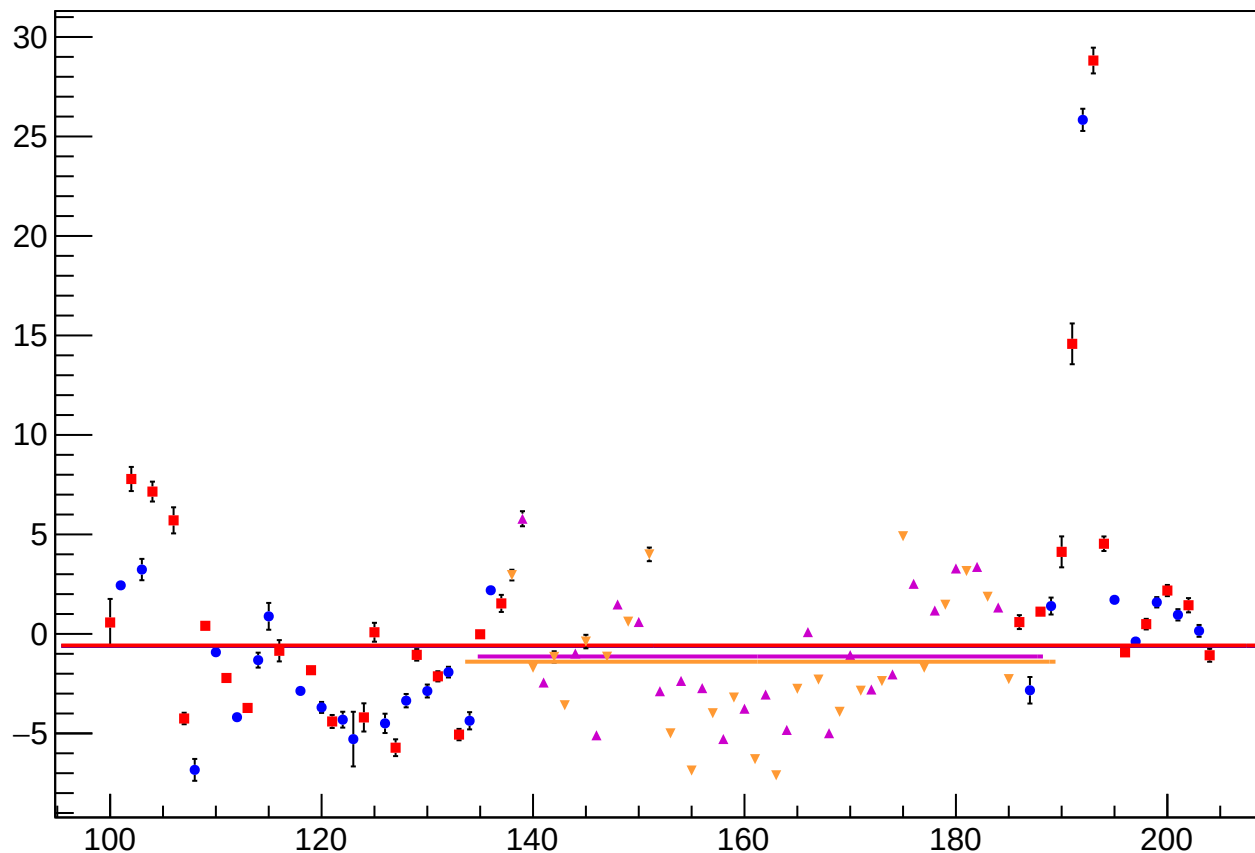
Right: -4.883 ± 0.038 $\chi^2/\text{NDF}: 52680.5/54$

In: 10.085 ± 0.032 $\chi^2/\text{NDF}: 166734.8/47$

Out: 9.288 ± 0.031 $\chi^2/\text{NDF}: 235034.2/54$

All: 9.671 ± 0.022 $\chi^2/\text{NDF}: 402084.1/102$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

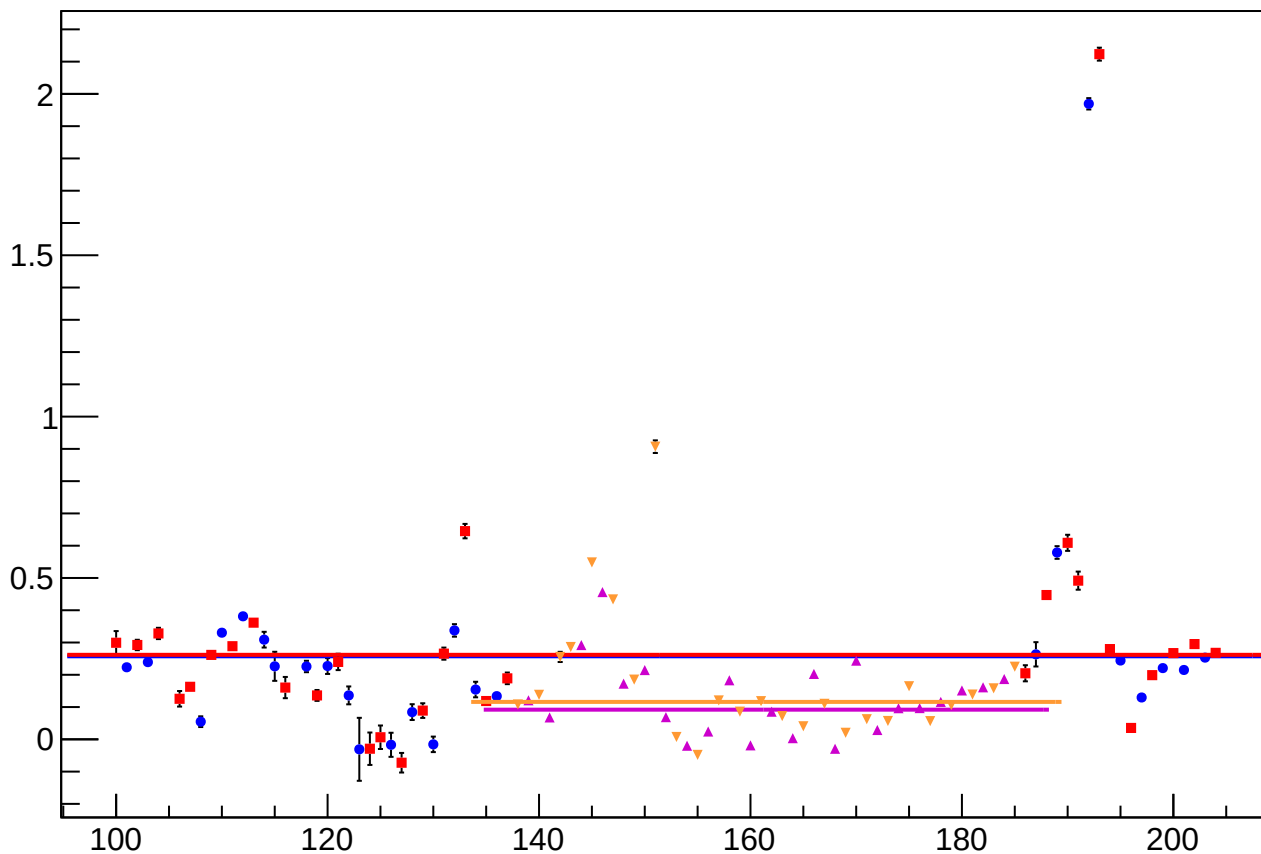


Right In: -0.607 ± 0.061 $\chi^2/\text{NDF}: 3882.1/24$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.584 ± 0.056 $\chi^2/\text{NDF}: 4405.3/29$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.595 ± 0.041 $\chi^2/\text{NDF}: 8287.5/54$
 In: -1.002 ± 0.030 $\chi^2/\text{NDF}: 10536.4/47$
 Out: -1.153 ± 0.031 $\chi^2/\text{NDF}: 12202.1/54$

All: -1.076 ± 0.022 $\chi^2/\text{NDF}: 22750.5/102$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.257+/-0.003 χ^2/NDF : 10784.0/24

Left Out: 0.116+/-0.002 χ^2/NDF : 4463.0/24

Right Out: 0.262+/-0.003 χ^2/NDF : 11072.1/29

Left In: 0.092+/-0.002 χ^2/NDF : 3631.4/22

Left: 0.103+/-0.001 χ^2/NDF : 8207.3/47

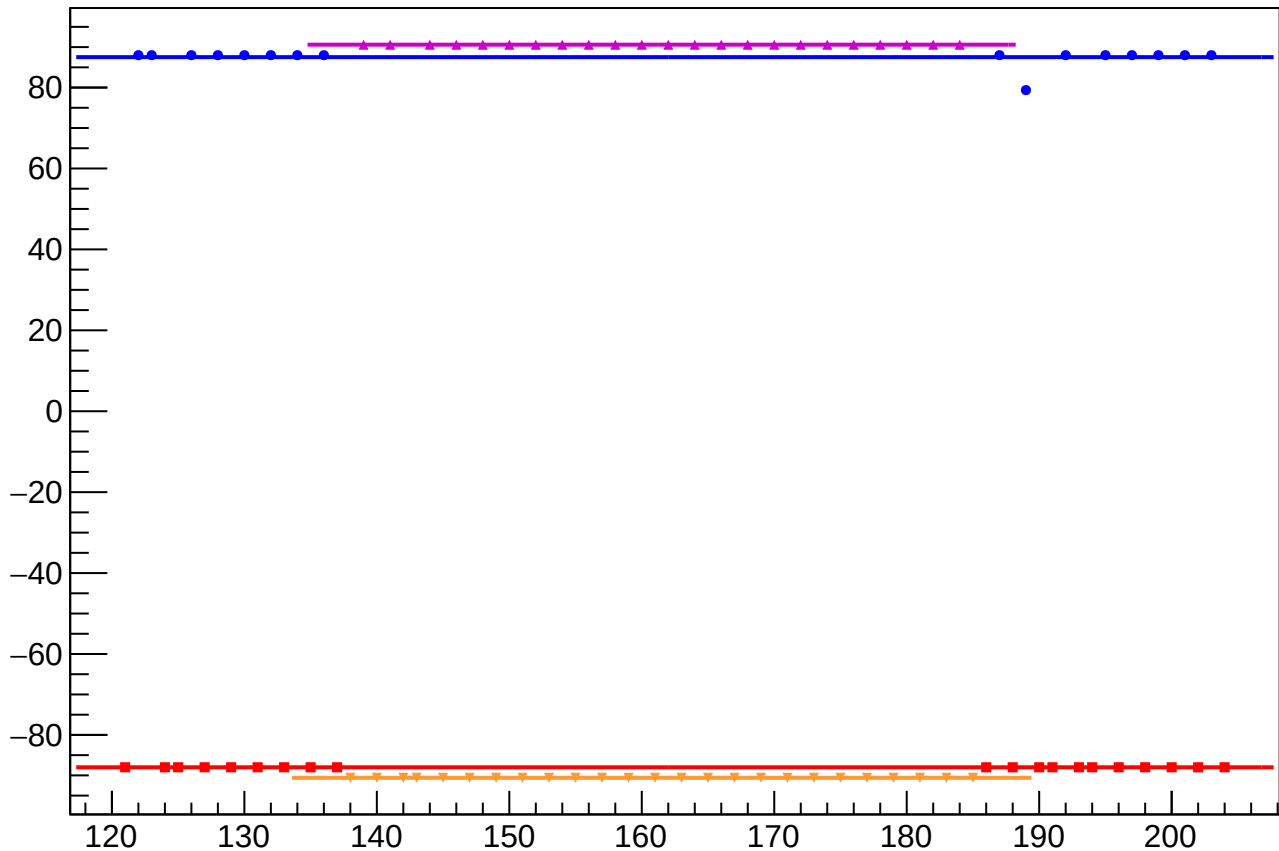
Right: 0.260+/-0.002 χ^2/NDF : 21857.6/54

In: 0.133+/-0.001 χ^2/NDF : 17247.1/47

Out: 0.159+/-0.001 χ^2/NDF : 17822.7/54

All: 0.145+/-0.001 χ^2/NDF : 35244.7/102

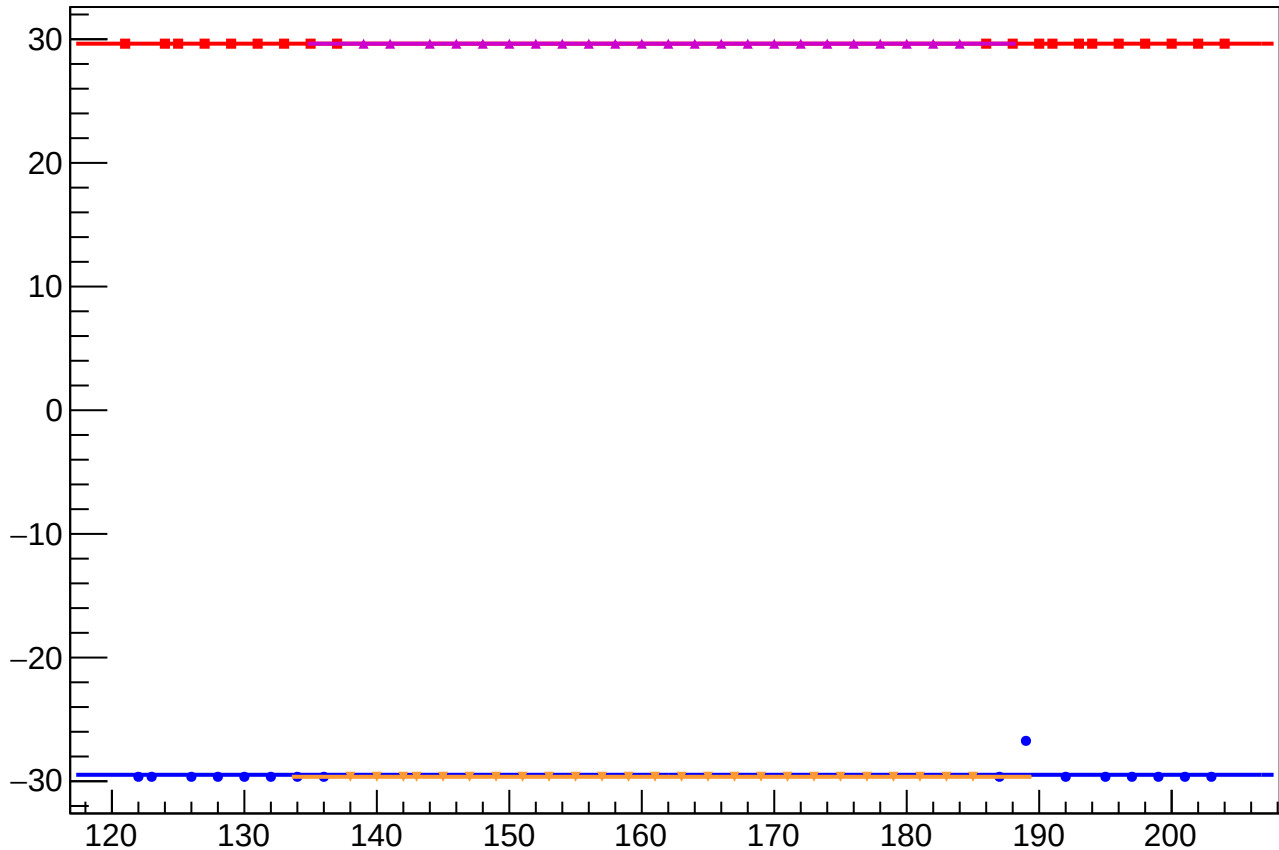
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.518 ± 0.000 χ^2/NDF : 3583854999341962563398831058190336.0/15
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 1088501.8/19
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -6.538 ± 0.000 χ^2/NDF : 1505955107799413
 In: 89.567 ± 0.000 χ^2/NDF : 934175602703349502
 Out: -89.676 ± 0.000 χ^2/NDF : 4583601639523719
 All: -3.837 ± 0.000 χ^2/NDF : 4560267710061

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.478+/-0.000

χ^2/NDF : 406588554341835614815904126205952.0/15

Left: -0.789+/-0.000

χ^2/NDF : 32668496095314519

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right: 2.202+/-0.000

χ^2/NDF : 17085069298180589

Right Out: 29.641+/-0.000

χ^2/NDF : 1413058.1/19

In: 9.840+/-0.000

χ^2/NDF : 2120321218187871262

Out: -8.573+/-0.000

χ^2/NDF : 23854322227239332

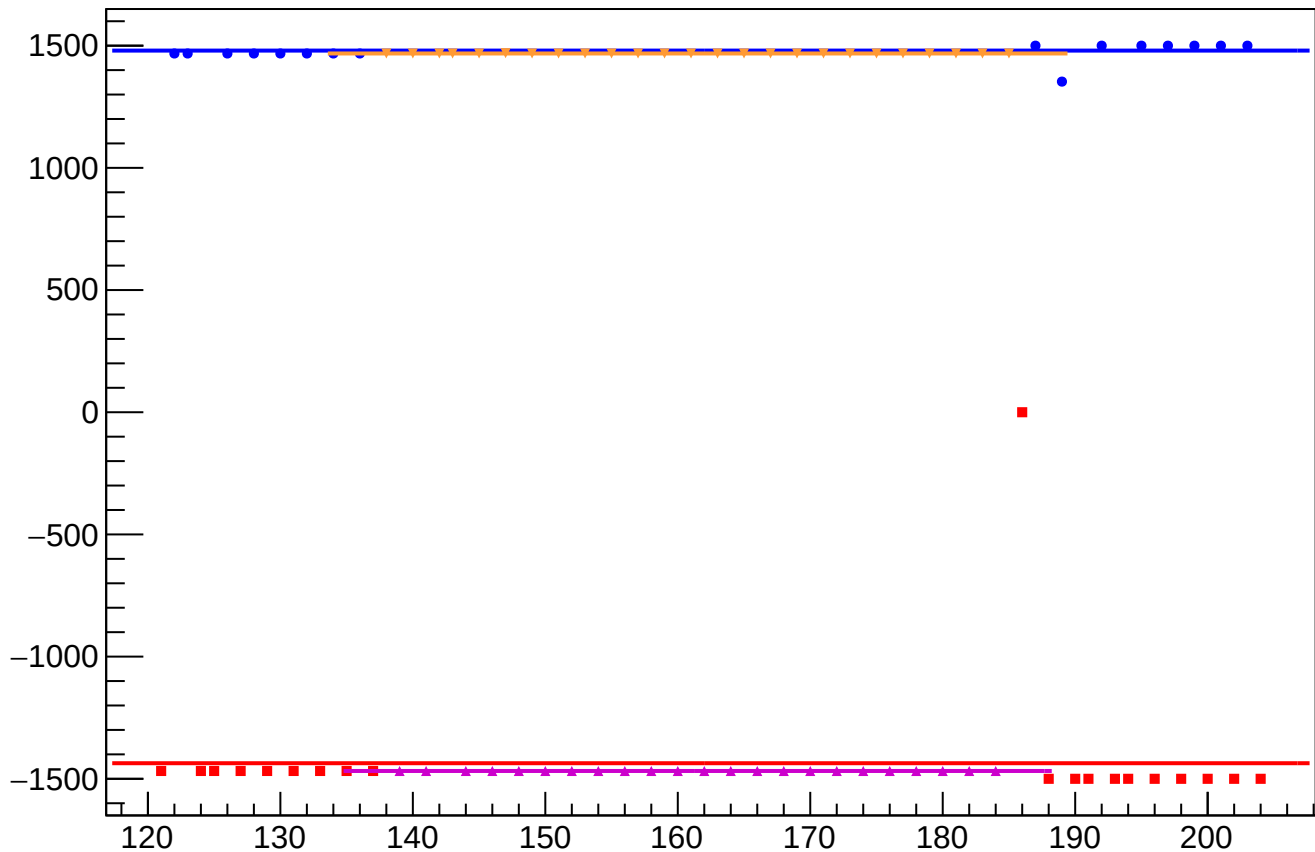
Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: 0.245+/-0.000

χ^2/NDF : 49868599441347

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1479.874+/-0.000

χ^2/NDF : 1081117819642188159054202669029654528.0/15

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1436.230+/-0.000

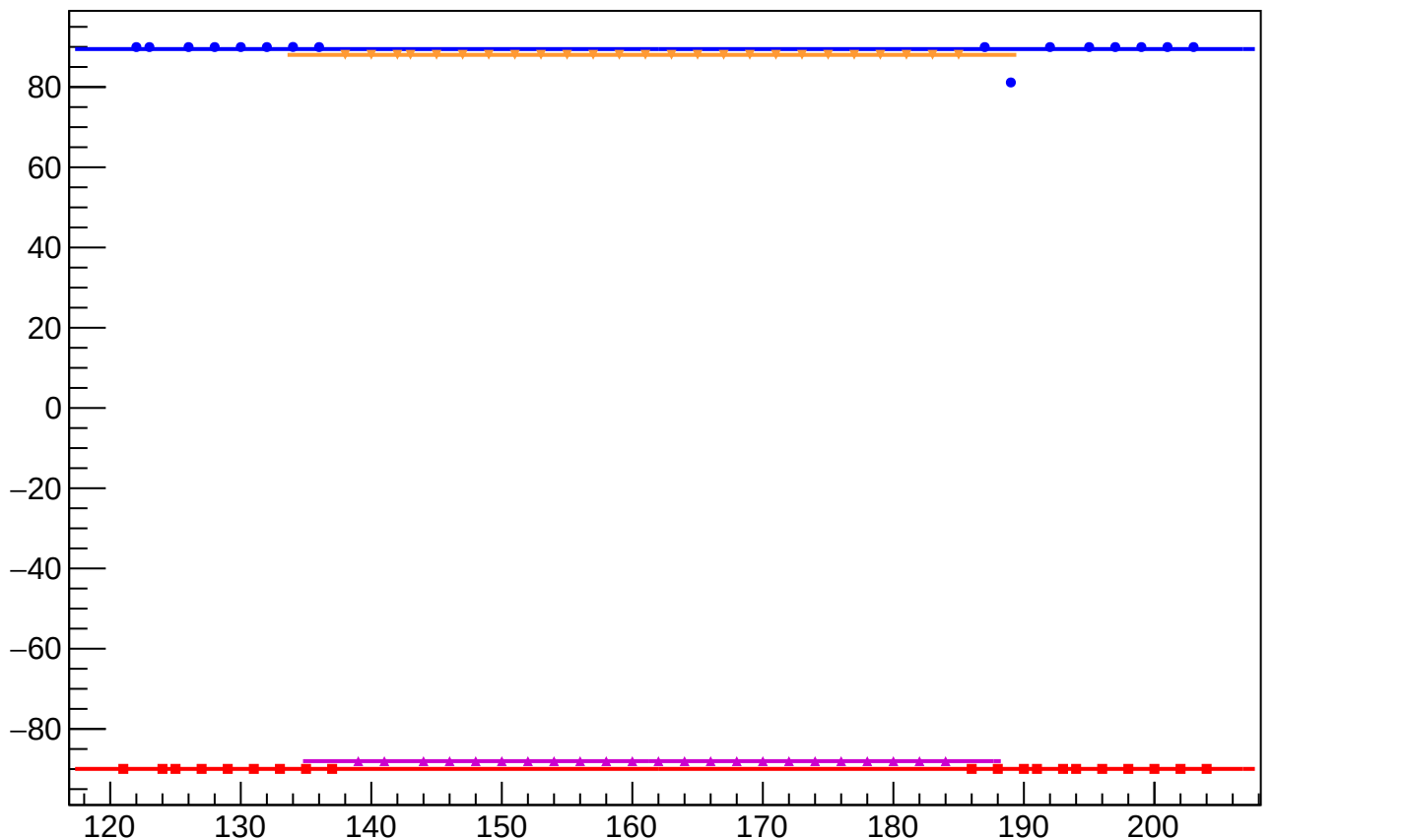
χ^2/NDF : 81541828037543835330648308709226184704.0/19

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

All: -3.037+/-0.000 χ^2/NDF : 1227103791202

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.467+/-0.000

χ^2/NDF : 3745865911468480936399271354171392.0/15

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -6.684+/-0.000 χ^2/NDF : 1573749295477192

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 3563581.3/19

In: -28.576+/-0.000 χ^2/NDF : 19111141692238958

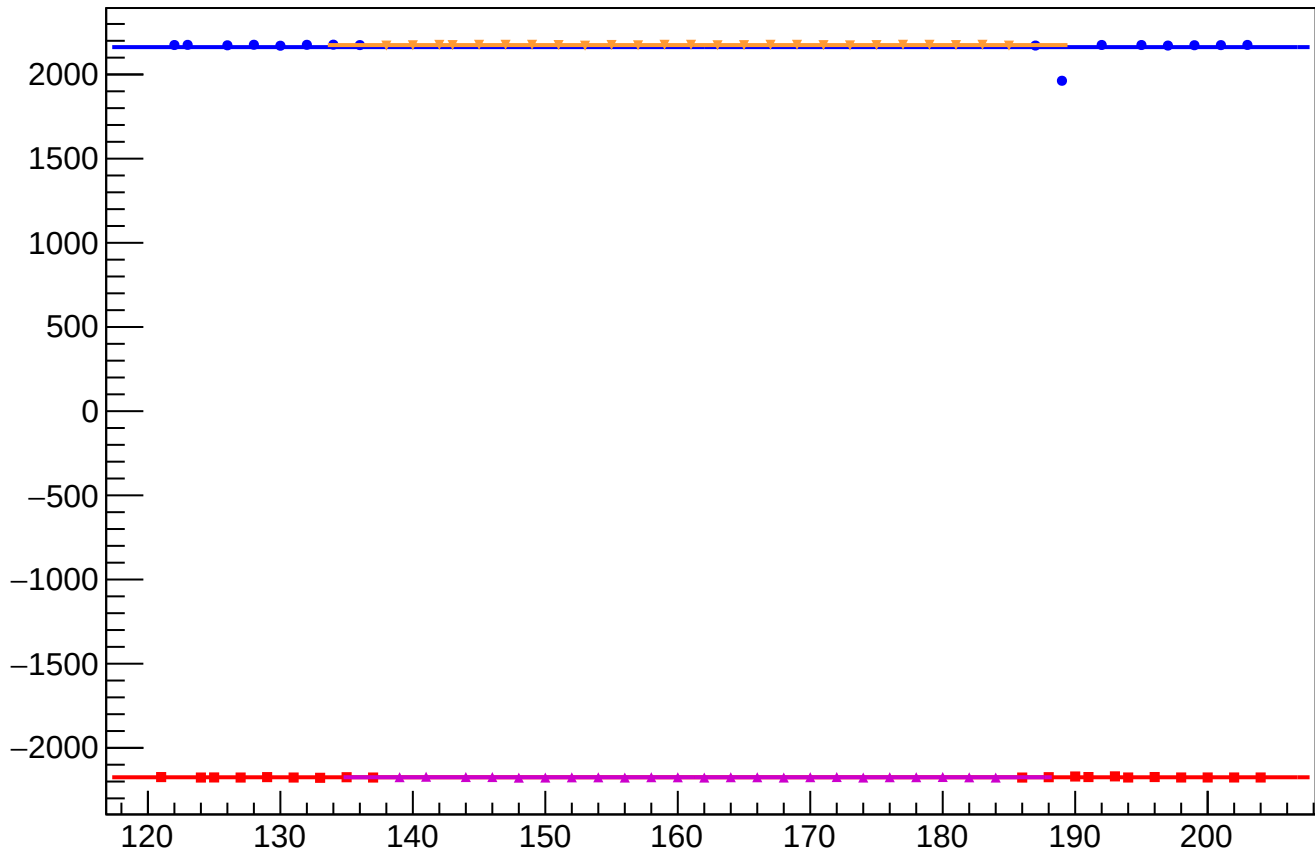
Out: 24.770+/-0.000 χ^2/NDF : 21501684835265571

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

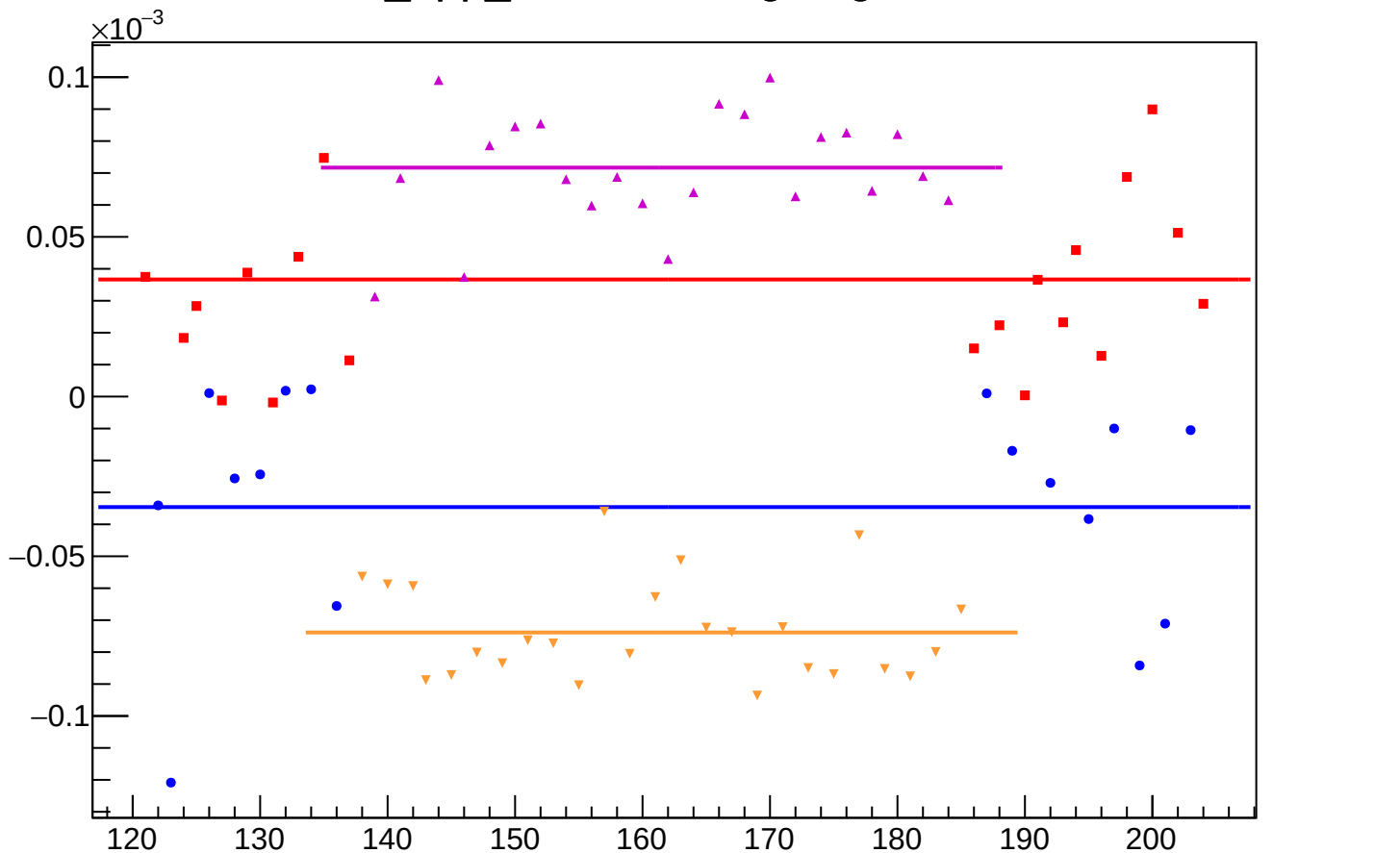
All: -0.777+/-0.000 χ^2/NDF : 4465082087669

HALLA_p_mean vs Slug, Sign Corrected



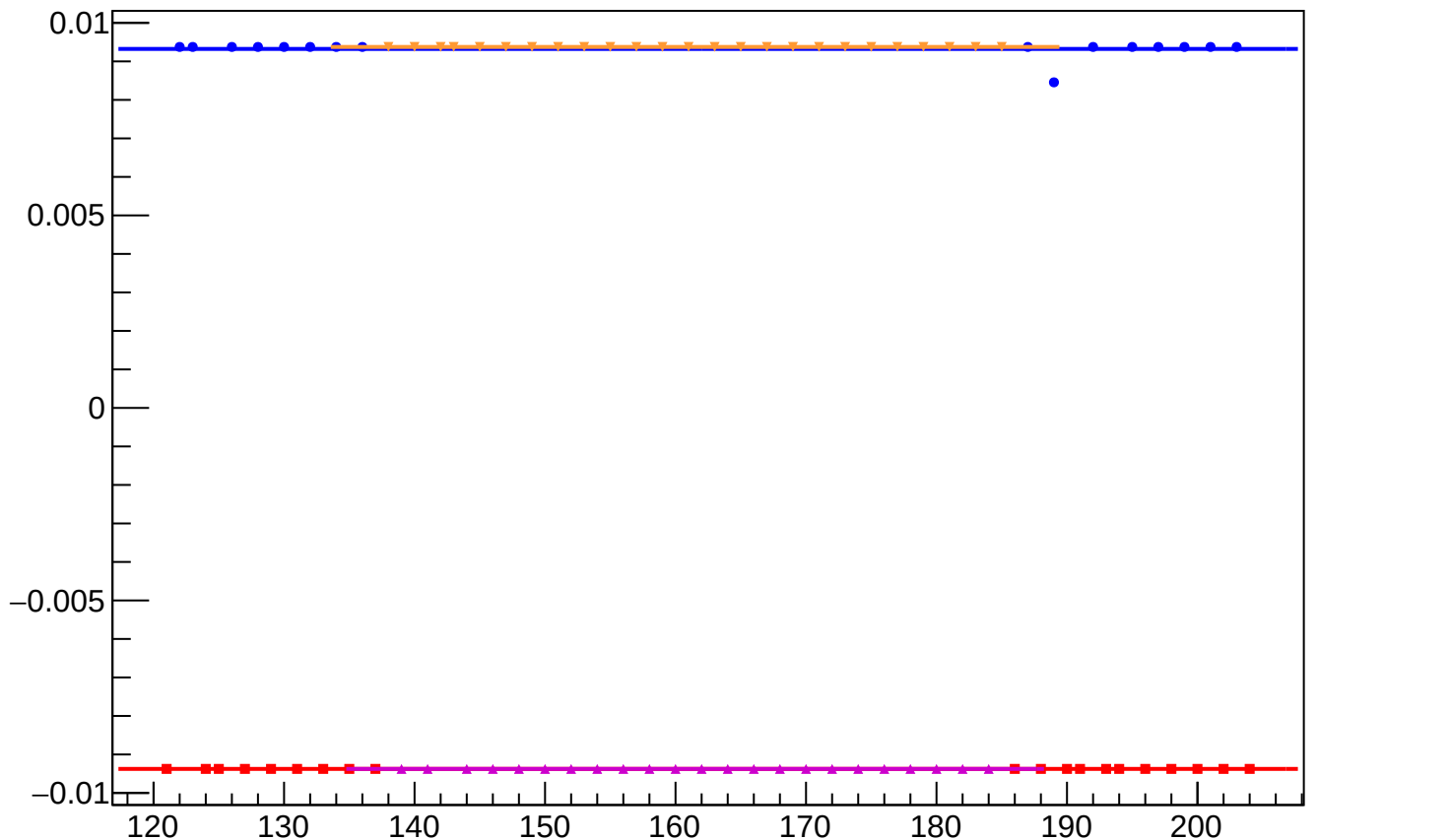
Right In: 2162.475+/-0.000	χ^2/NDF : 2160008424440973516552275707645919232.0/15	Left: 57.898+/-0.000	χ^2/NDF : 1758341875465085
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -161.715+/-0.000	χ^2/NDF : 91954834133071
Right Out: -2174.689+/-0.000	χ^2/NDF : 4593748250723491315381505219362816.0/19	In: -721.966+/-0.000	χ^2/NDF : 1141115403794900
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 628.950+/-0.000	χ^2/NDF : 1284018800387366
	All: -17.997+/-0.000	χ^2/NDF : 268409222937	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000	$\chi^2/\text{NDF}: 718583567862671744172032.0/15$	Left: -0.000 ± 0.000	$\chi^2/\text{NDF}: 20702696564433151$
Left Out: -0.000 ± 0.000	$\chi^2/\text{NDF}: 450400934180541069000704.0/24$	Right: 0.000 ± 0.000	$\chi^2/\text{NDF}: 39064101815990094$
Right Out: 0.000 ± 0.000	$\chi^2/\text{NDF}: 706349337248271492448256.0/19$	In: 0.000 ± 0.000	$\chi^2/\text{NDF}: 8131741327861441827$
Left In: 0.000 ± 0.000	$\chi^2/\text{NDF}: 562166279020739416817664.0/22$	Out: -0.000 ± 0.000	$\chi^2/\text{NDF}: 94473993909185311$
	All: -0.000 ± 0.000		$\chi^2/\text{NDF}: 2466532665290$

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40674357222328725592342528.0/15

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1709158323276826

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 212112962191624157

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

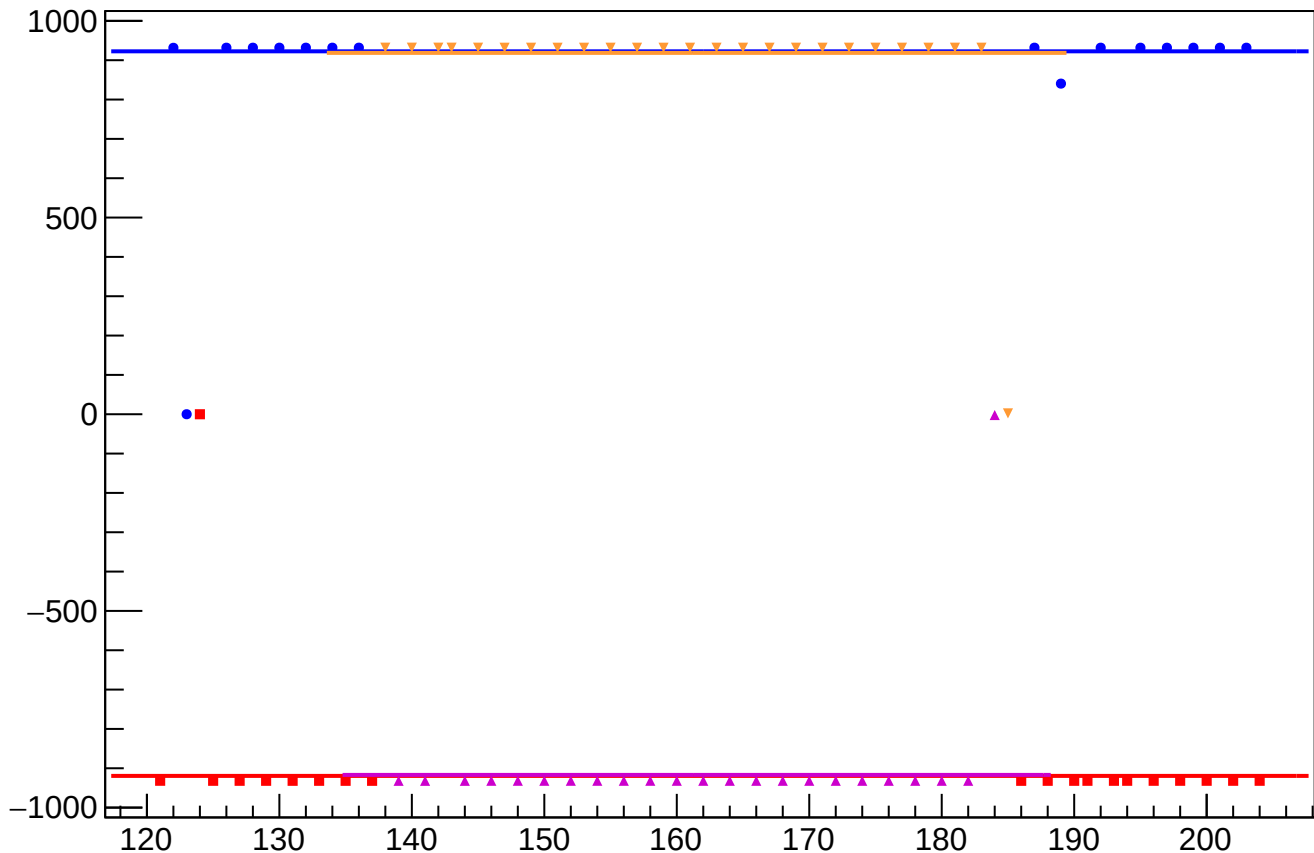
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: -0.000+/-0.000

χ^2/NDF : 4988761258019

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 922.593+/-0.000

χ^2/NDF : 3820658740824358024344967605534064640.0/15

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -919.413+/-0.000

χ^2/NDF : 11993117284430840690879380901387567104.0/19

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018

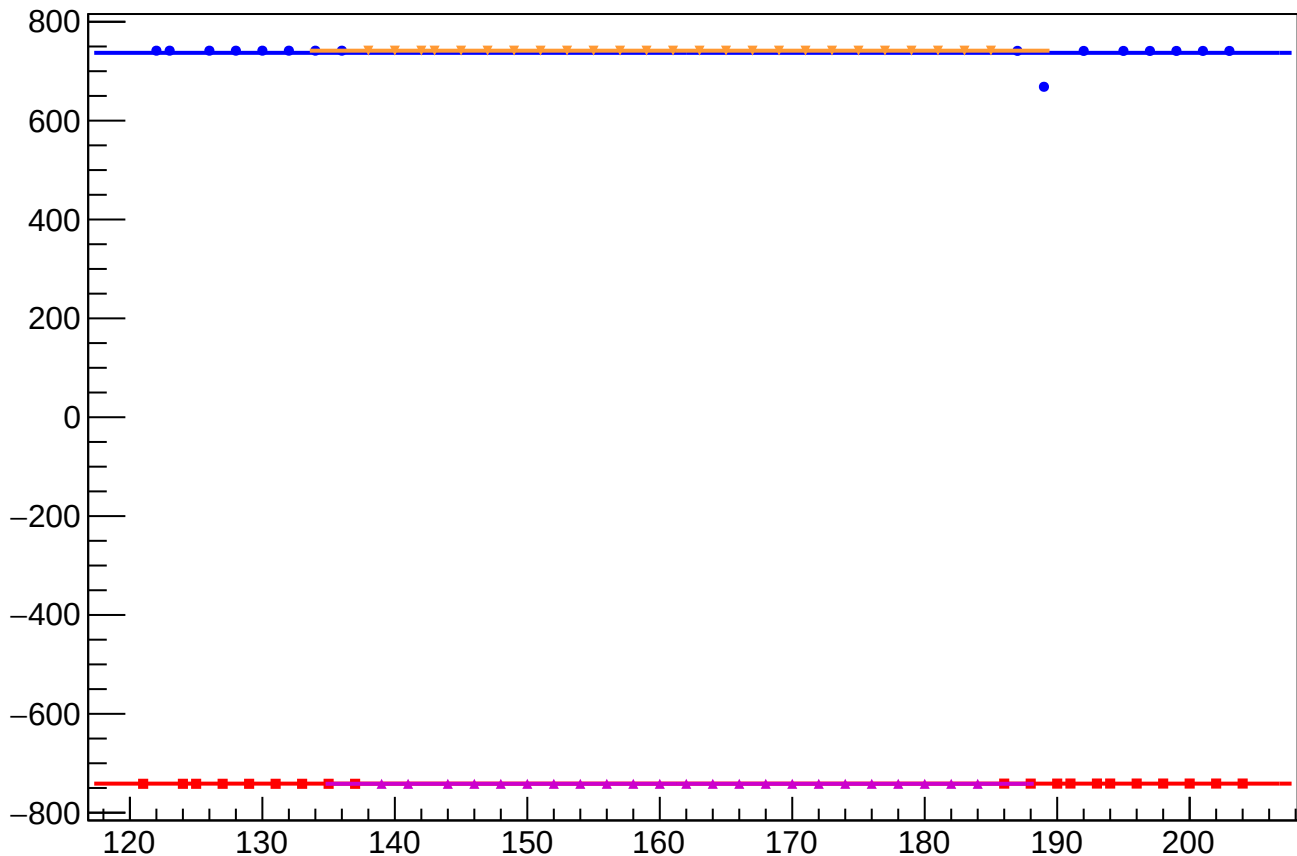
Right: -64.497+/-0.000 χ^2/NDF : 167403522656248

In: -300.802+/-0.000 χ^2/NDF : 2080864577530584

Out: 265.430+/-0.000 χ^2/NDF : 2328230179812544

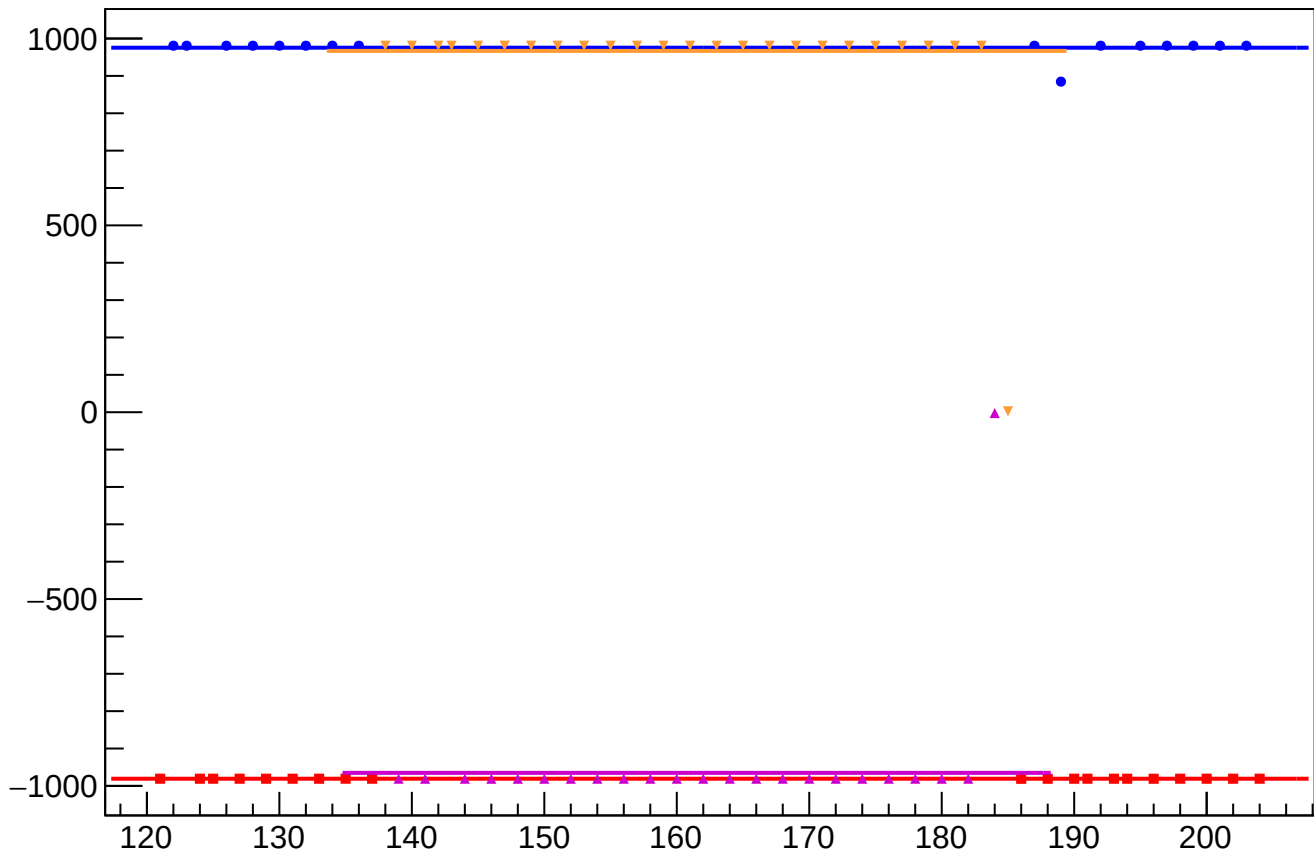
All: -5.736+/-0.000 χ^2/NDF : 4864041848469

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.159+/-0.000	χ^2/NDF : 254703843805641992823474182487539712.0/15	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -55.060+/-0.000	χ^2/NDF : 106837410716690
Right Out: -741.199+/-0.000	χ^2/NDF : 51630107341382320956767224201216.0/19	In: -246.269+/-0.000	χ^2/NDF : 1326454422296722
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 214.582+/-0.000	χ^2/NDF : 1492256744983456
	All: -6.117+/-0.000		χ^2/NDF : 3120076662532

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 975.442+/-0.000

χ^2/NDF : 445407815979311476974673216116097024.0/15

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.826+/-0.000

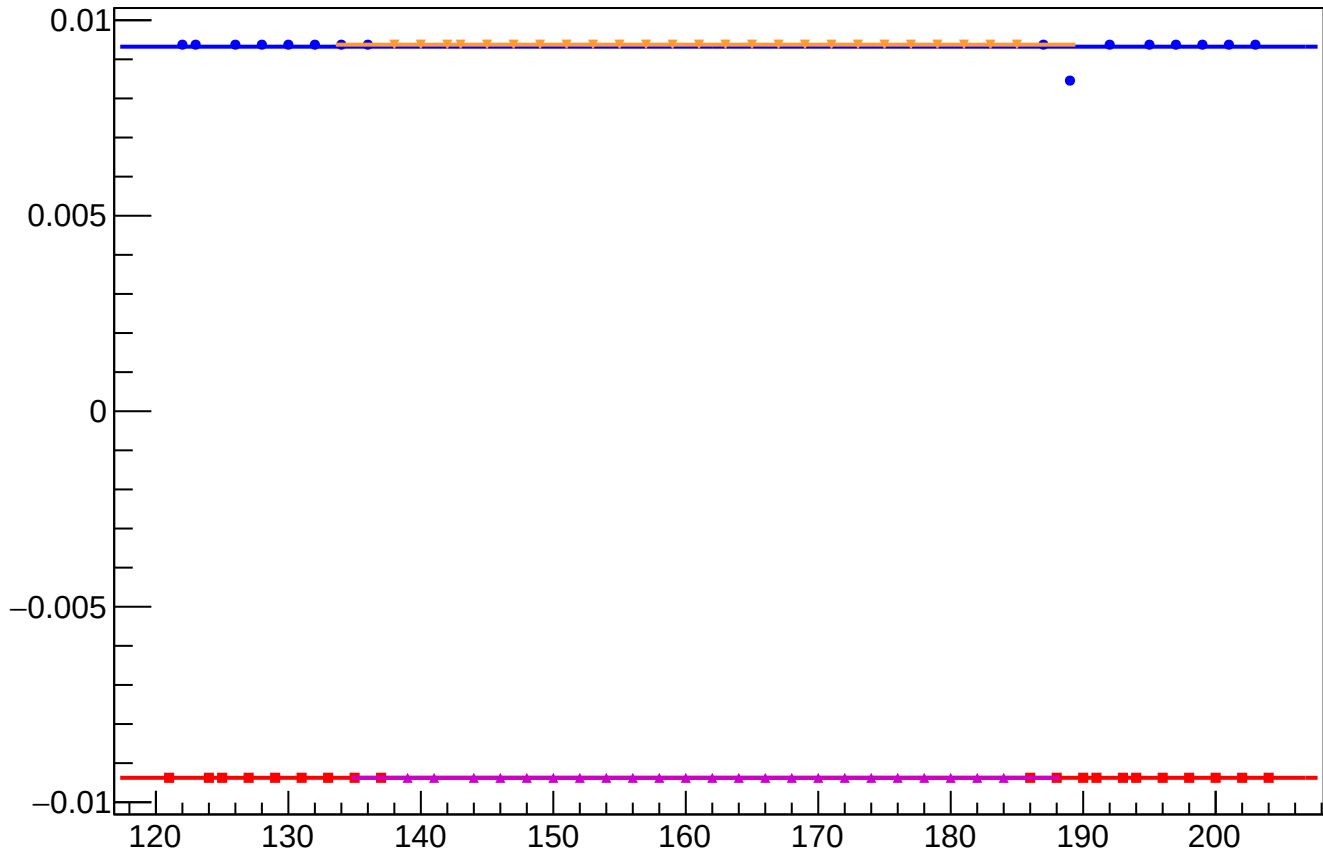
χ^2/NDF : 3125601918813779723679116034048.0/19

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -7.766+/-0.000 χ^2/NDF : 5406271509372

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000

χ^2/NDF : 40674357222328725592342528.0/15

Left Out: 0.009 $\pm$ 0.000

χ^2/NDF : 0.1/24

Right Out: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/19

Left In: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/22

Left: 0.000 $\pm$ 0.000

χ^2/NDF : 326809514411447718

Right: -0.001 $\pm$ 0.000

χ^2/NDF : 1709158323276826

In: -0.003 $\pm$ 0.000

χ^2/NDF : 212112962191624157

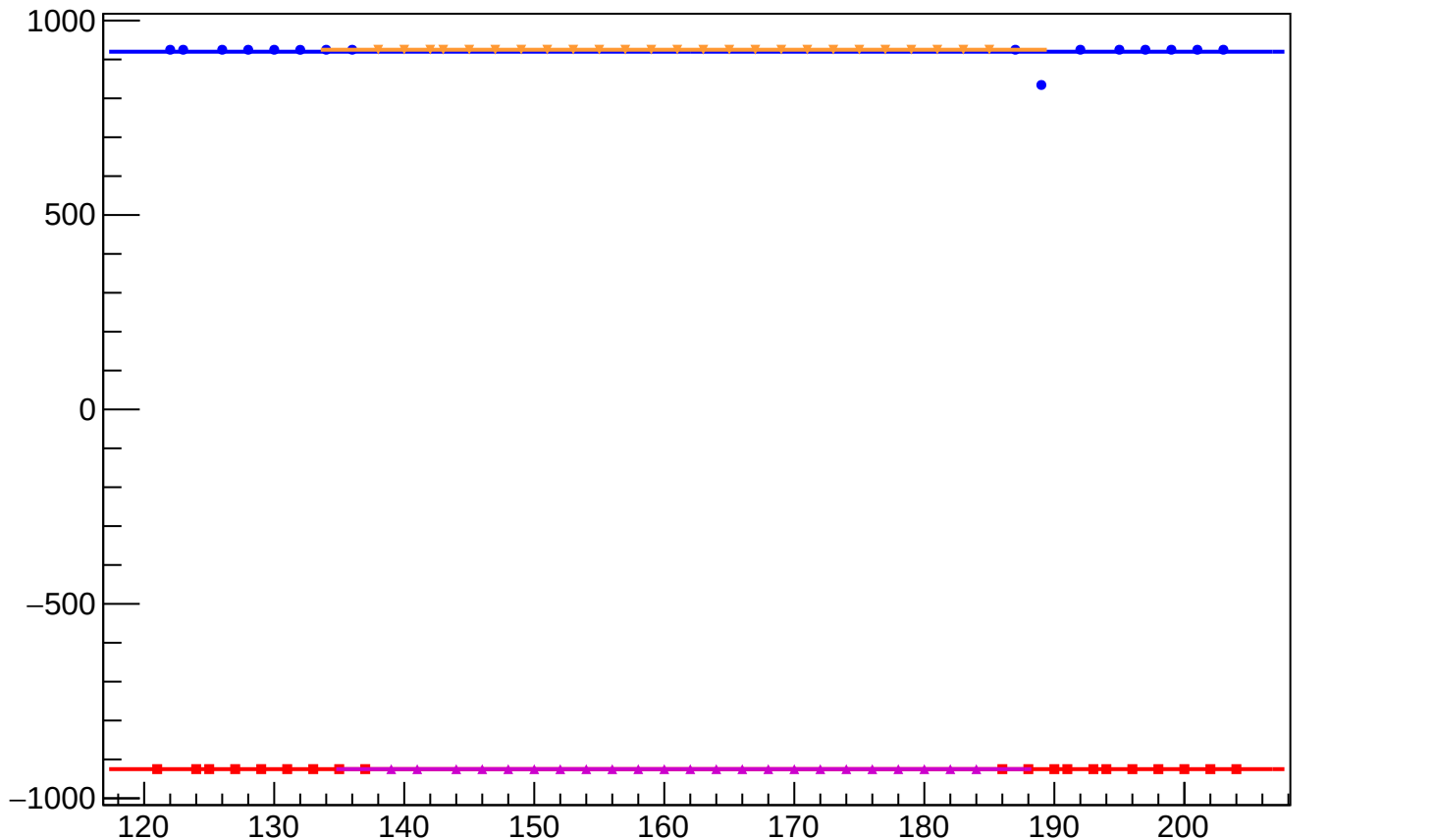
Out: 0.003 $\pm$ 0.000

χ^2/NDF : 238634170393181942

All: -0.000 $\pm$ 0.000

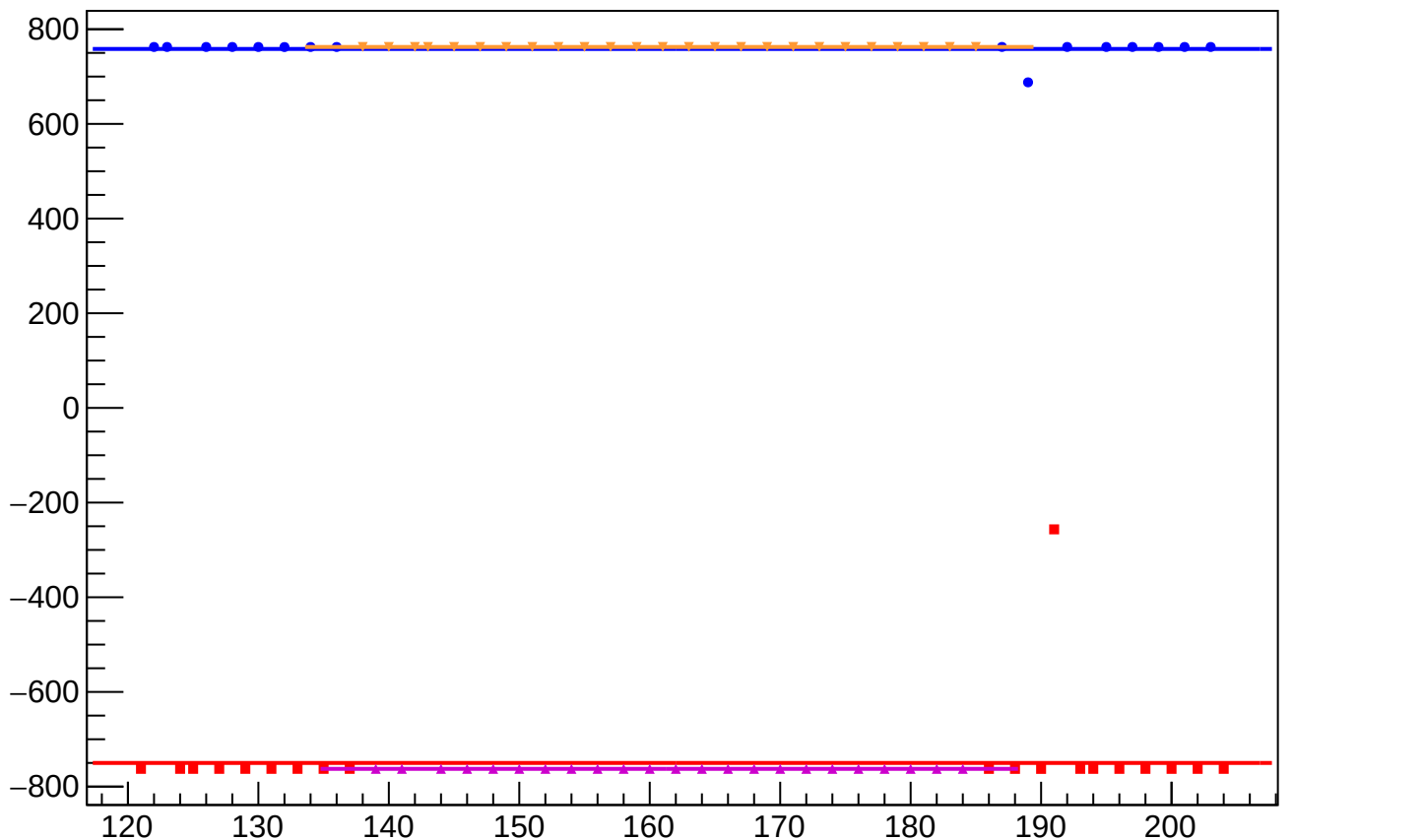
χ^2/NDF : 4988761258019

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



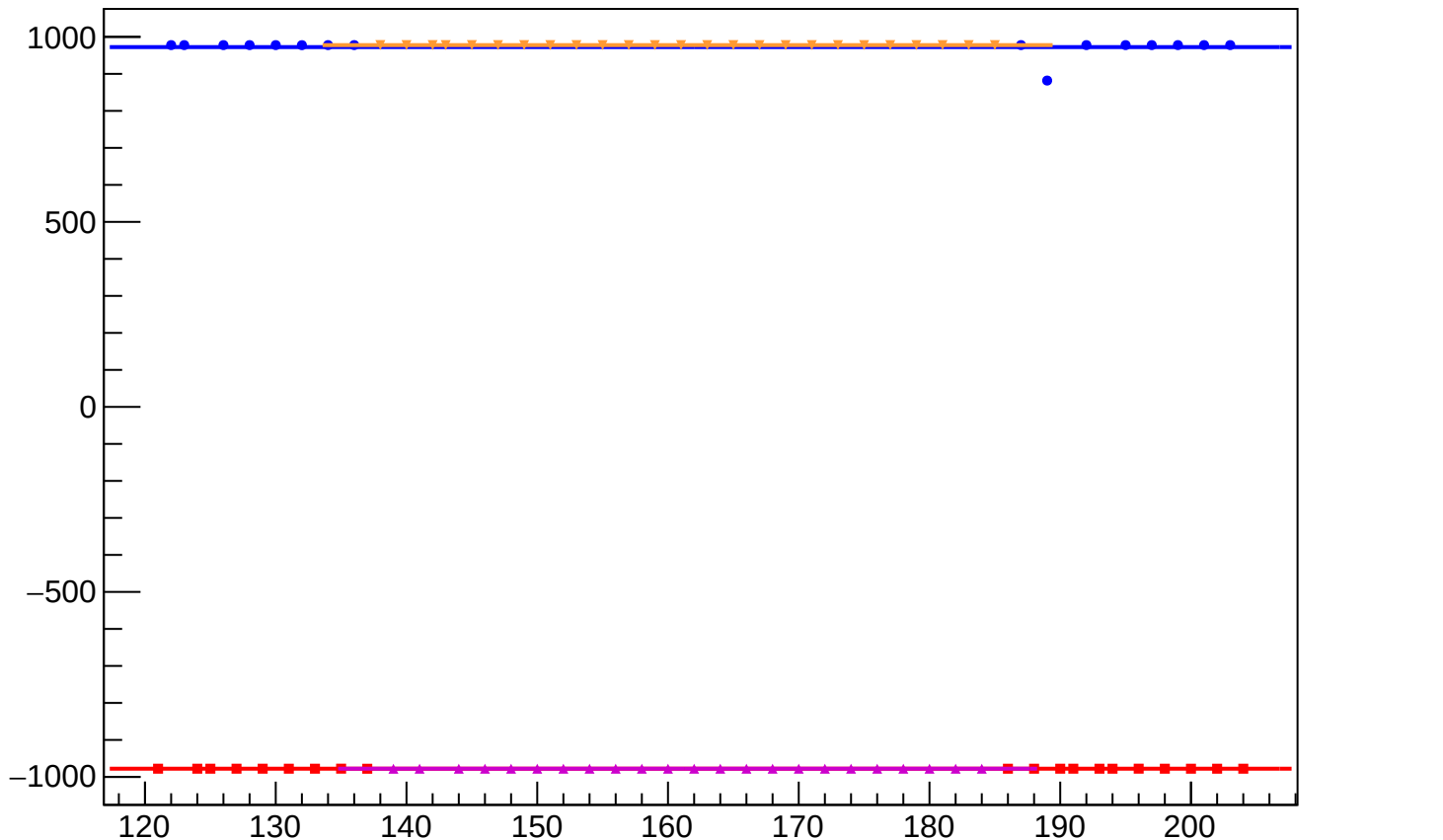
Right In: 919.914 $\pm$ 0.000	χ^2 /NDF: 395588678099292447036018833078878208.0/15	Left: 24.610 $\pm$ 0.000	χ^2 /NDF: 31814082693920915
Left Out: 924.983 $\pm$ 0.000	χ^2 /NDF: 1041831865443970524066476982272.0/24	Right: -68.732 $\pm$ 0.000	χ^2 /NDF: 166384996371258
Right Out: -924.995 $\pm$ 0.000	χ^2 /NDF: 830059120593427231583634456576.0/19	In: -307.081 $\pm$ 0.000	χ^2 /NDF: 2064872485855427
Left In: -924.983 $\pm$ 0.000	χ^2 /NDF: 888539224321534960792212865024.0/22	Out: 267.532 $\pm$ 0.000	χ^2 /NDF: 2323074768824081
		All: -7.648 $\pm$ 0.000	χ^2 /NDF: 4856462048767

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



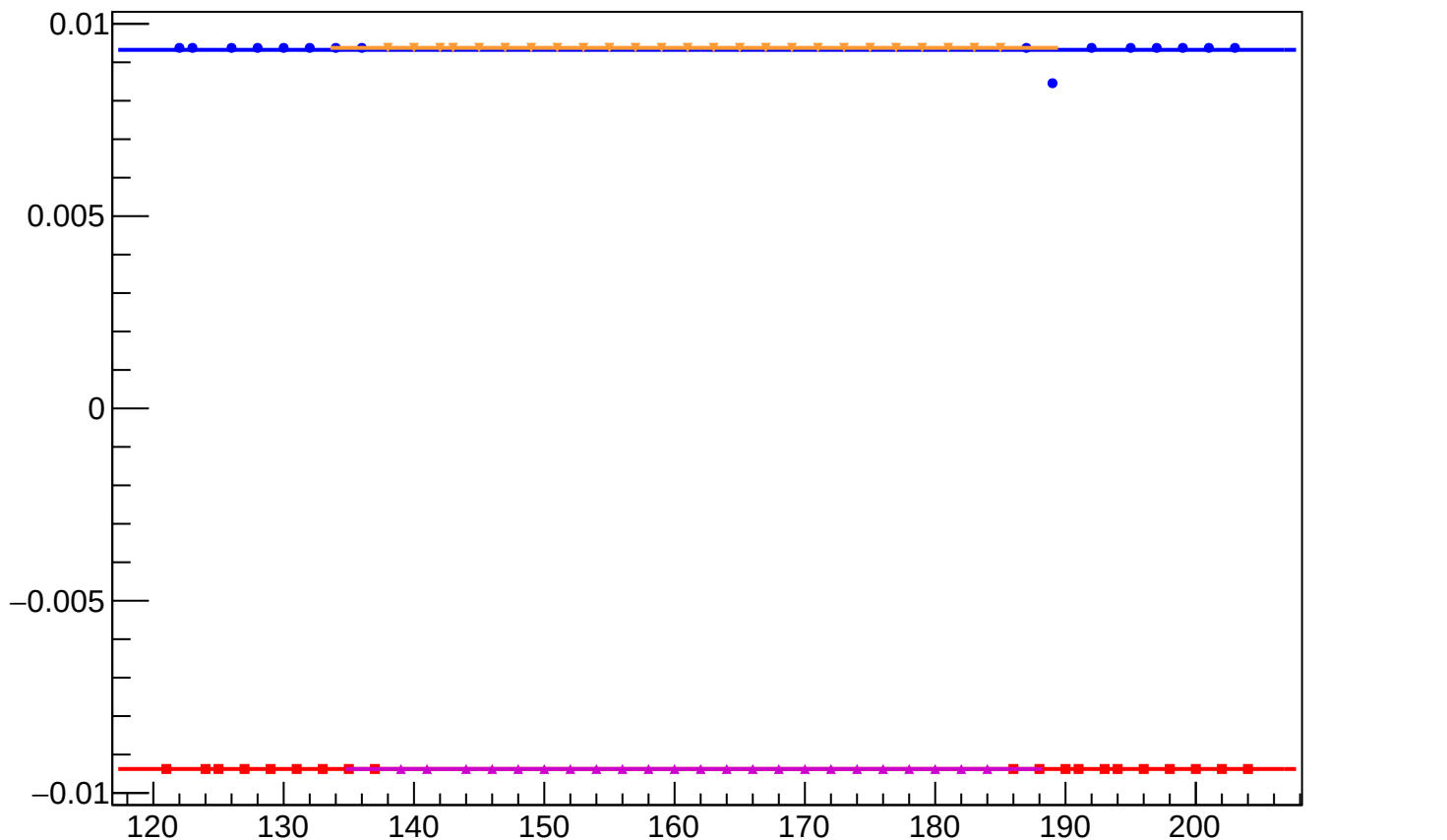
Right In: 758.333 +/- 0.000 χ^2/NDF : 268662409399042274733276786707136512.0/15
 Left Out: 762.518 +/- 0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -750.035 +/- 0.000 χ^2/NDF : 6491972428360604502254027752928706560.0/19
 Left In: -762.519 +/- 0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: -3.992 +/- 0.000 χ^2/NDF : 3287019042734

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 972.397+/-0.000 χ^2/NDF : 442225479233868099095531323545092096.0/15
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.753+/-0.000 χ^2/NDF : 1802755731209081229474174861312.0/19
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: -8.081+/-0.000 χ^2/NDF : 5426245916598

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40674357222328725592342528.0/15

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1709158323276826

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 212112962191624157

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

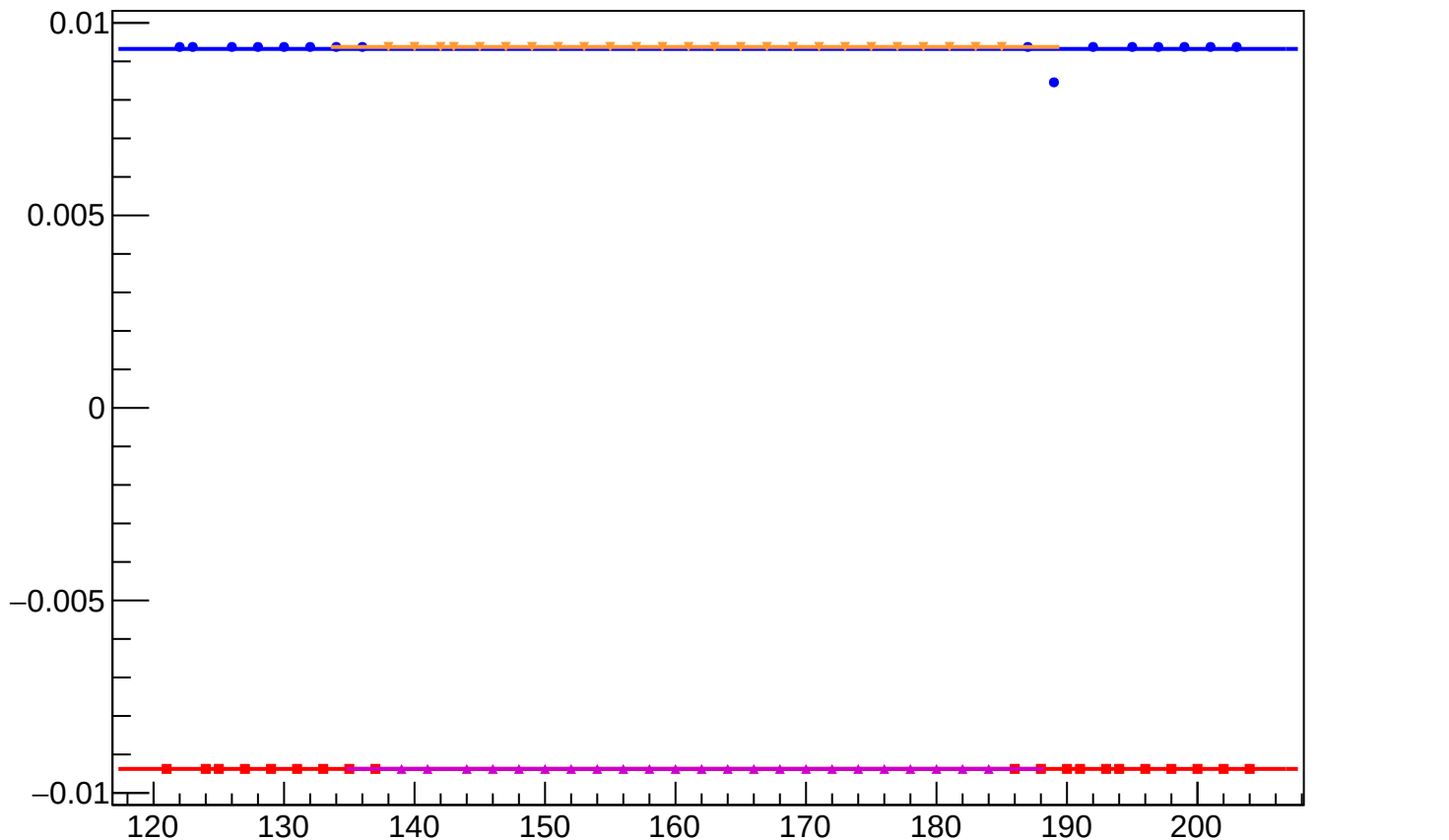
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: -0.000+/-0.000

χ^2/NDF : 4988761258019

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40674357222328725592342528.0/15

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

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 : 1709158323276826

In: -0.003+/-0.000

χ^2/NDF : 212112962191624157

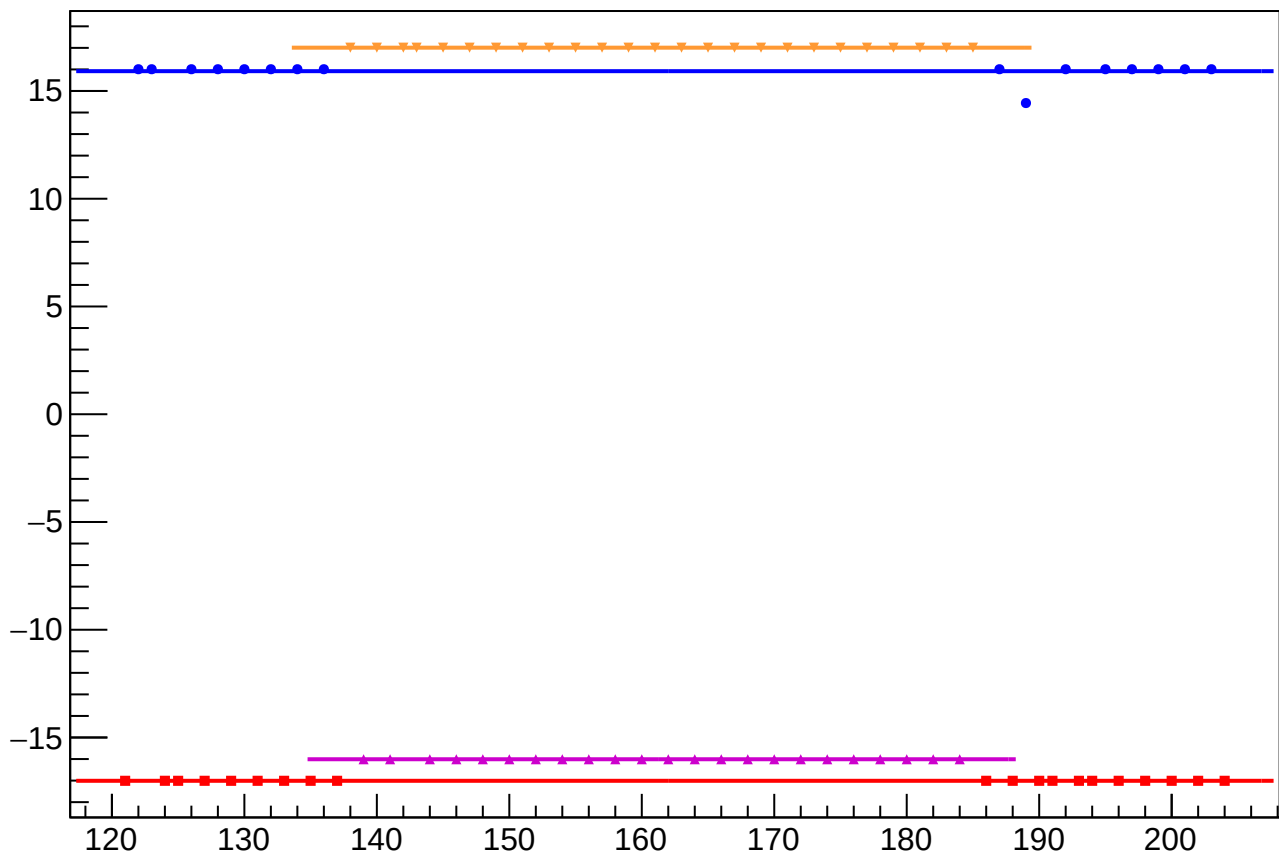
Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

All: -0.000+/-0.000

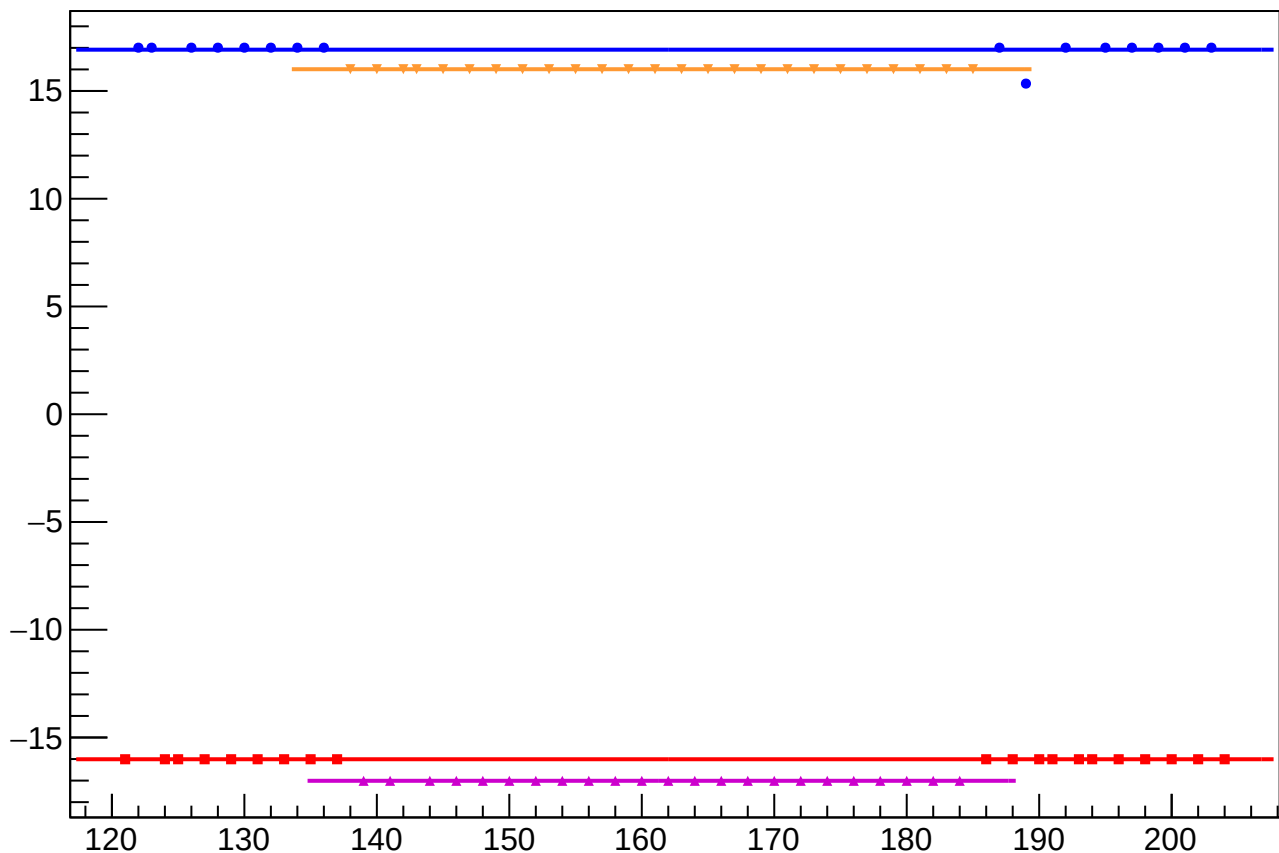
χ^2/NDF : 4988761258019

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



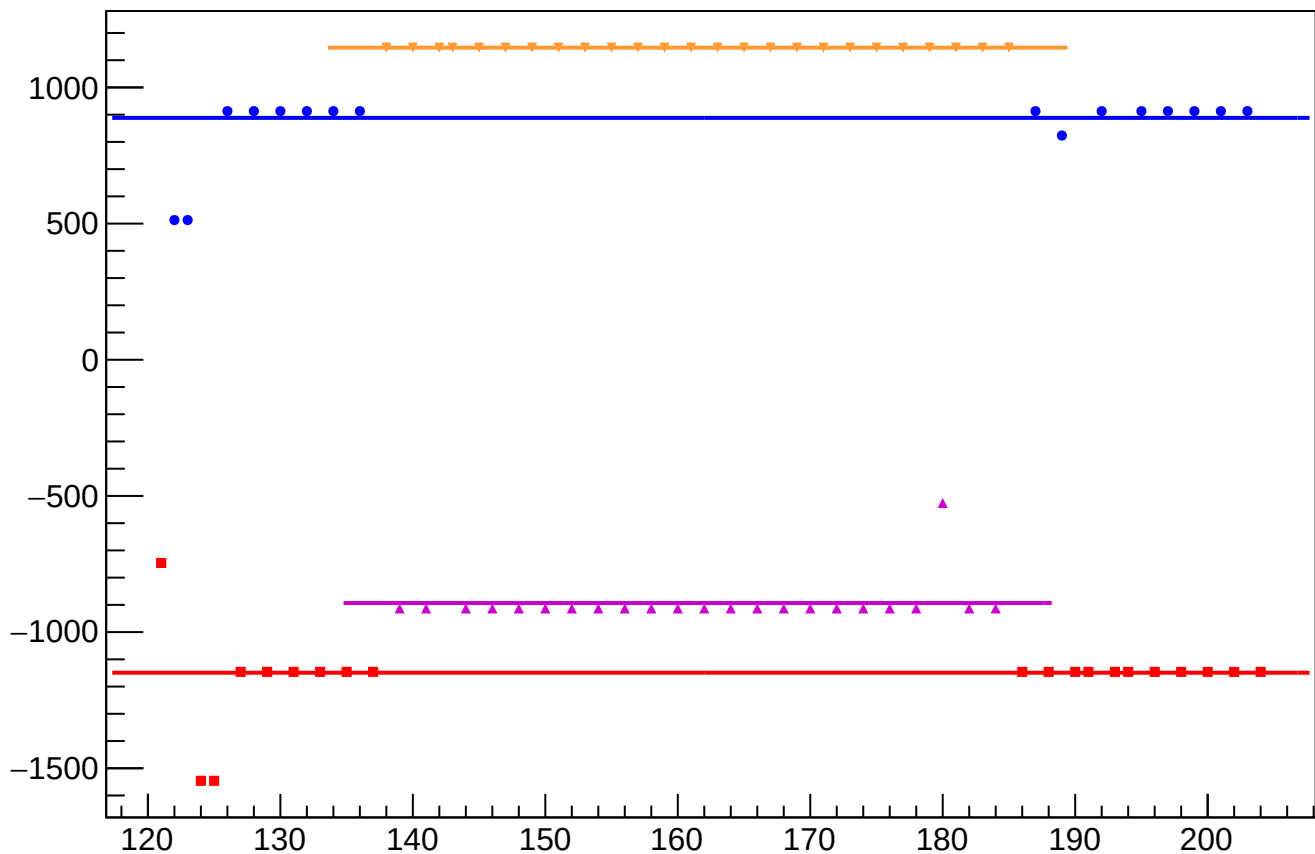
Right In: 15.919+/-0.000	χ^2/NDF : 118404789641150957916317007478784.0/15	Left: 0.939+/-0.000	χ^2/NDF : 941837157361130802
Left Out: 17.009+/-0.000	χ^2/NDF : 26284444608576238643052544.0/24	Right: -1.838+/-0.000	χ^2/NDF : 5181689194940935
Right Out: -17.009+/-0.000	χ^2/NDF : 14644701659590047433752576.0/19	In: -4.998+/-0.000	χ^2/NDF : 591827162898300270
Left In: -16.009+/-0.000	χ^2/NDF : 127973174512756677672960.0/22	Out: 4.464+/-0.000	χ^2/NDF : 757518849483521418
	All: -0.053+/-0.000	χ^2/NDF : 1469536931515	

IGL1I00OD16_16_mean vs Slug, Sign Corrected



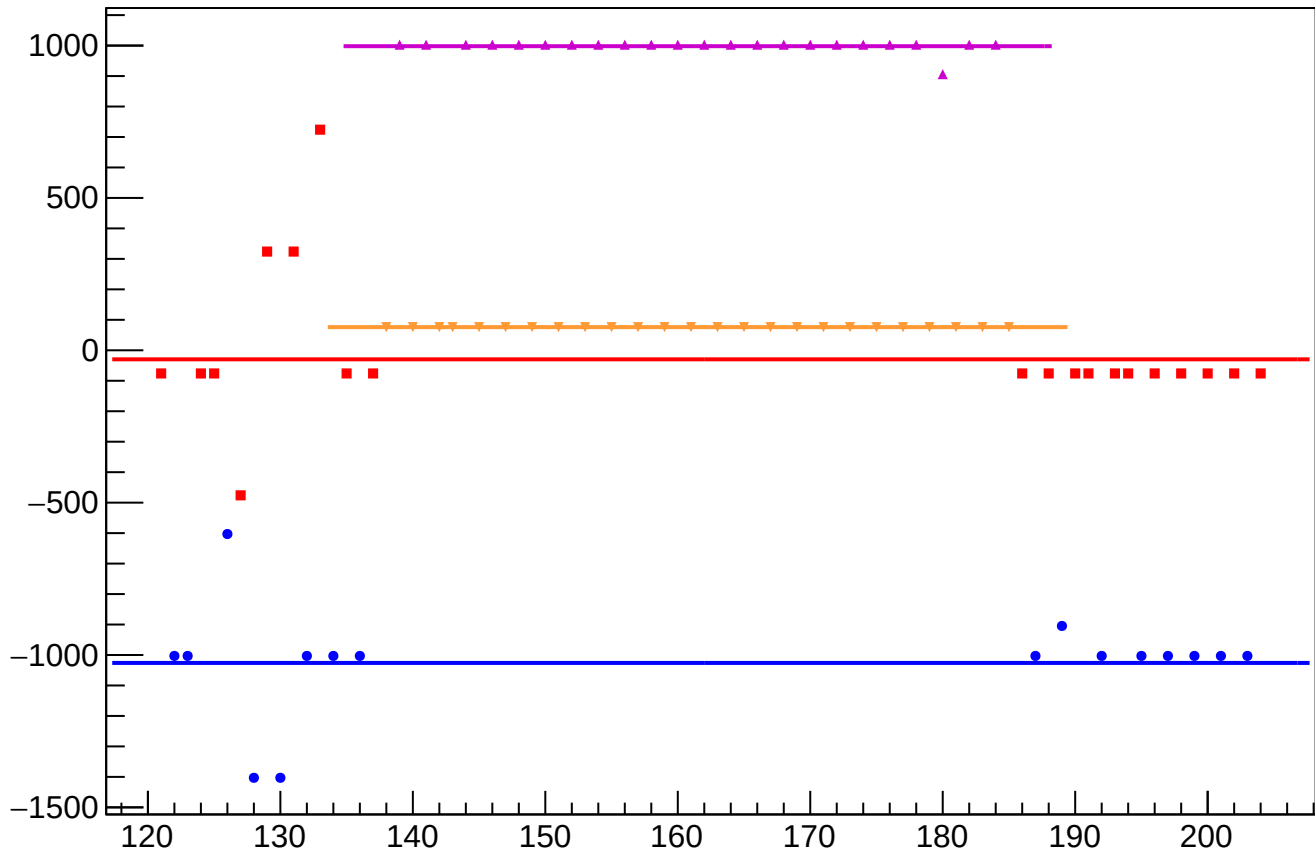
Right In: 16.916 $\pm$ 0.000	χ^2 /NDF: 133891487831393704437490691080192.0/15	Left: 0.042 $\pm$ 0.000	χ^2 /NDF: 99431233770062905
Left Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 89740.8/24	Right: -0.728 $\pm$ 0.000	χ^2 /NDF: 5299500980762832
Right Out: -16.009 $\pm$ 0.000	χ^2 /NDF: 220679.1/19	In: -5.456 $\pm$ 0.000	χ^2 /NDF: 692326990738062915
Left In: -17.009 $\pm$ 0.000	χ^2 /NDF: 115033472633445654986752.0/22	Out: 4.538 $\pm$ 0.000	χ^2 /NDF: 692754283697979460
		All: -0.227 $\pm$ 0.000	χ^2 /NDF: 1525020705869

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 888.252+/-0.000 χ^2/NDF : 7050372181603491940273208024144805888.0/15
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1149.049+/-0.000 χ^2/NDF : 13750941573780521308669851781560270848.0/19
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 30.177+/-0.000 χ^2/NDF : 6091731836578

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1025.999+/-0.000

χ^2/NDF : 23209909704078063556727032110982889472.0/15

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -29.667+/-0.000

χ^2/NDF : 44778182312095896613536158351131410432.0/19

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 173.346+/-0.000 χ^2/NDF : 267379471975